

SPECIFICATIONS 1.01 GENERAL REQUIREMENTS GENERAL ITEMS.
PIPING, FITTINGS AND VALVES.
PILIMBING EQUIPMENT.
INSULATION.
PLUMBING FIXTURES.
TESTING, FILING AND FEES.
CADD AS—BUILT DRAWINGS. 1.03 SUBMITTALS PROVIDE SIX (6) COPIES OF SUBMITTAL MATERIAL.

PROVIDE SIX (6) COPIES OF SUBMITS SHOP DRAWINGS OF SPECIFIED ITEMS AS LISTED IN THIS SPECIFICATION, THEN THE SHOP DRAWINGS SHALL BE SUBMITTED FOR RECORD ONLY.

IF THIS CONTRACTOR ELECTS TO USE MANUFACTURERS OTHER THAN THOSE LISTED IN THE SPECIFICATION, THE FOLLOWING IS REQUIRED.

1. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL SUBMIT A LIST OF MANUFACTURE SUBSTITUTIONS, FOR REVIEW AND ACCEPTANCE. SUBSTITUTION WILL NOT BE ACCEPTED AT ANY OTHER TIME.

2. AFTER VERIFYING ALL FIELD CONDITIONS THIS CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL.

3. ALT THE TIME OF EACH SUBMISSION, THIS CONTRACTOR SHALL SUBMIT FAIR THE THE OF EACH SUBMISSION, THIS CONTRACTOR IS TO IDENTIFY ANY DEVATION BY "CLOUDING" ON SHOP DRAWINGS.

1. SUBMIT THE FOLLOWING:

1. ACCESS DOORS.

2. VALVES.

3. SUPPORTS.

4. PIPE, FITTINGS AND JOINTS.

5. CLEANOUTS.

6. INSULATION.

7. PLUMBING FIXTURES, TRIM, TRAPS, ETC.

8. WATER HEATERS. 1.05 SCOPE OF WORK 2.02 GENERAL ITEMS

HANGERS, GRINNELL ADJUSTABLE SWIVEL RING FIG. 70.
FOR HORIZONTAL PIPING 2 ½ IN. AND LARGER, PROVIDE
GALVANIZED "CLEVIS" HANGERS, GRINNELL 260.
SUPPORT HORIZONTAL BRANCH PIPING IN PIPE CHASES FROM WALL
BRACKETS SUPPORTED FROM STRUCTURE.
TRAPEZE FOR MULTIPLE LINES, SUPPORTED BY A MINIMUM OF TWO
HANGERS HANGERS.

8. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING HANGER RODS IN REQUIRED LOCATIONS, PROVIDE ADDITIONAL STEEL FRAMING AS REQUIRED AND REVIEWED.

ACCESS DOORS:

1. 18 IN. X 18 IN. O. 4 FINISH STAINLESS STEEL FLUSH TYPE, LOCATE AND SET AFTER REVIEW. DOOR AND FRAME WITH METAL WINGS OR KEYING INTO CONSTRUCTION WITH CONCEALED HINGES AND SCREWINGRY OPPERATED STRINLESS STEEL CAN LOCK KARP STYLE DSC 214M OR KRP—150—FR IN FIRE RATED CONSTRUCTION. LABELING: STYLE USE 21-98 OR NOT - 155-15.

LABELING.

1. PROVIDE ON ALL PIPING IN OR AT CEILING, 10 FT. ON CENTERS, INDICATING SYSTEM, SIZE AND DIRECTION OF FLOW.

DISSIMILAR METALS:

1. PROVIDE BRASS OR COPPER WATER PIPING CONNECTED TO CALMANZED PIPE AND FOR ANY OTHER DISSIMILAR METALS WITH DIELECTRIC FITTINGS.

10819 PAINS:

DIELECTRIC THINKS.

DIELP PANS:

1. PROVIDE DRIP PANS UNDER PIPING WHEN INSTALLATION IS IN ROOMS CONTAINING TELEPHONE OR ELECTRICAL EQUIPMENT. PAN SHALL BE REINFORCED, PROPERLY SUPPORTED AND MADE WATERTIGHT. PROVIDE PROCLOSED TYPE FOR PRESSURE PIPING, EXTEND 11N. DRAWIN PIPE FROM PAN TO SPILL TO AREA AS INDICATE ON THE DRAWING.

2. CONSTRUCTION SHALL BE GALVANIZED SHEET METAL PER ASHRAE STANDARDS.

DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF PIPING. PROVIDE ALL NECESSARY SUPPORTS, PIPE, FITTINGS AND VALVES THAT ARE REQUIRED FOR COORDINATION OF THIS WORK WITH ALL OTHER TRADES AND THE EXISTING STRUCTURE.
THIS CONTRACTOR SHALL CONFERM SIZES AND LOCATIONS OF ALL EXISTING PIPING TO BE CONNECTED TO PRIOR TO START OF WORK. CAREFULLY EXAMINE EXISTING CONDITIONS BEFORE SUBMITTING PROPOSAL. COORDINATE ALL WORK TO MINIMIZE INTERFERANCE WITH EXISTING AND NEW FACILITIES.

CAREFULLY EXAMINE EXISTING CONDITIONS BEFORE SUBMITTING PROPOSAL COORDINATE ALL WORK TO MINIMIZE INTERFERANCE WITH EXISTING AND NEW FACILITIES.

CONNECTIONS TO EXISTING WORK: SHALL BE AT ODD HOURS TO INSURE MINIMUM INTERFERENCE WITH REGULAR OPERATION OF EXISTING FACILITIES. ALL PIPING RUN IN OTHER TENANTS AREAS SHALL BE COORDINATED WITH THAT TENANT, INSTALLED ON OVERTIME AND AT TIMES CONVENIENT TO TENANT AFFECTED. ALL WORK SPACE SHALL BE CLEANED AND RESTORED TO ITS ORIGINAL CONDITION. OSTAIN APPROVAL OF BUILDING MANAGEMENT PRIOR TO INSPECTION, SHUTDOWN OR COMMENCING WORK.

PROVIDE WORKMANSHIP OF HIGHEST GRADE. INSTALLATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT BUILDING CODE. PROVIDE ONE YEAR GUARANTEE AGAINST DEFECTIVE WORKMANSHIP AND MATERIAL.

ALL MATERIAL, PLUMBING ITEMS, ETC., SHALL BE NEW AND BEST OF ITS KIND, UNLESS OTHERWISS NOTED.

NO PIPING PASSING OVER ELECTRICAL, TELEPHONE EQUIPMENT, AND SEWER PIPING OVER FOOD PREPARATION AREAS SHALL BE PERMITTED, ALL PLUMBING SYSTEMS CONVEYING DRINKING WATER IN WATER UTILITY DISTRIBUTION PIPING AND IN CONSUMER PLUMBING VALVES, FITTINGS AND FAUCETS SHALL MEET THE CALIFORMIA ASSEMBLY BILL AB 1953 REQUIREMENTS.

PROVIDE ALL REQUIRED LABOR, MATERIALS, EQUIPMENT AND PROVIDE ALL REQUIRED LABOR, MATERIALS, EQUIPMENT AND CONTRACTOR'S SERVICES NECESSARY FOR A COMPLETE SAFE INSTALLATION OF WORK IN FULL CONFORMITY WITH THE REQUIREMENTS OF ALL AUTHORITIES HAWING JURISDICION, AS INDICATED ON THE DRAWINGS AND/OR HEREIN SPECIFIED, INCLUDING THE FOLLOWING:

1. SANITARY DRAWINGE AND VENT SYSTEM, INCLUDING CONNECTIONS TO EXISTING PIPING, PLUMBING FIXTURES AND EQUIPMENT.

2. DOMESTIG WATER SUPPLY SYSTEM, INCLUDING CONNECTIONS TO EXISTING PIPING, VALUE, PLUMBING FIXTURES AND EQUIPMENT.

3. PLUMBING FIXTURES.

PLUMBING FIXTURES.
INSULATION.
CORE DRILLING, ROUGH CUITING AND PATCHING.
SHOP DRAWNIGS.
TESTING, FILING AND FEES.
CADD AS-BUILT DRAWNIGS.
DISINFECTION OF DOMESTIC WATER SYSTEM.
J. DRIP PANS.

CONTRACTOR SHALL SUBMIT A PLUMBING PHASING SCHEDULE UPON AWARD OF CONTRACT TO BE APPROVED BY THE ENGINEER AND OWNER. AT NO TIME SHALL THE BULLDING BE WITHOUT WATER EXCEPT IN AREAS OF NEW WORK. IF WATER IS TO BE TURNED OFF, THEN TEMPORARY PIPING IS TO BE INSTALLED AS REQUIRED.

WATER PIPING SERVING PLUMBING FOUTURES SHALL NOT BE REMOVED UNTIL NEW PIPING IS INSTALLED AND CONNECTED TO THE EXISTING SOURCE OF SUPPLY.

REMOVAL OF EXISTING PIPING SHALL BE DONE IN A SATISFACTORY MANNER TO THE ENGINEER AND COORDINATED WITH THE G.C. SECTION.

2.01 BASE BID MANUFACTURERS

THE FOLLOWING IS A LIST OF ACCEPTABLE BASE BID MANUFACTURERS:

1. STANLESS STEEL SINKS: ELKAY MFG. CO.

2. BRASSWARE TRIM: DICK BROS., CHICAGO FAUCET CO., MCGUIRE, JAMCO, AND BRASSCRAFT.

3. FAUCETS: CHICAGO FAUCET.

4. BALL AND CHECK VALVES (INSIDE): COMBRACO "APOLLO," STOCKHAM VALVES AND FITTINGS, WALWORTH CO., CRAWE CO., WM. BOUKET MALVES. AND CHICAGO, WANDER MAND MEMBACT MALVES CO., WM.

POWEL VALVE CO., NIBCO (USA), AND MILWAUKEE VALVE CO.

5. WATER HEATERS (ELECTRIC); CHRONOMITE.

ESCUTCHEONS: PROVIDE EXPOSED PIPING BOTH BARE AND COVERED, WITH OP CAST BRASS ESCUTCHEONS ON BOTH SIDES WHERE PASSING THROUGH CELLINGS, WALLS OR PARTITIONS. HANGER AND PIPING SUPPORTS:

GER AND PIPING SUPPORTS:
SUPPORT MATERIALS: GALVANIZED.
SUPPORT PIPING AT DISTANCES AS REQUIRED BY CODE.
ALL PIPING SHALL BE INDEPENDENTLY SUPPORTED FROM
STRUCTURE. PIPE SUPPORTED FROM PIPE, CHAIN, STRAP.
PERFORATED BAR, OR WIRE HANGESS ARE NOT PERMICL
PIPING 2 IN. OR LESS PROVIDE ELECTROPLATED SOLID BAR

SANITARY DRAINAGE AND VENT PIPING:

1. FOR ABOVEGROUND: SERVICE WEIGHT CAST IRON HUB AND SPIGOT SOIL PIPE AND DRAINAGE FITTINGS, OR CAST IRON NO—HUB WITH 24 GAUGE, 304 STAINLESS STEEL COUPLINGS WITH NEOPRENE GASKETS, RATED FOR 15 PSI AND REQUIRING A MINIMUM OF 100 IN AGE OF TORONG. SHARE S, FAVELY FOR 19 PSI AND REQUIRING A MINIMUM OF 100 IN./LBS. OF TORQUE.

ALL HUBLESS PIPES SHALL BE ANCHORED AT EACH SIDE OF COUPLING (OR NO HUB CLAMP) AT FIVE (5) FT. INTERVALS. WATER PIPING:

TYPE "L" COPPER TUBING WITH WROUGHT COPPER OR CAST BRONZE FITTINGS WITH SOLDERED JOINTS IN COMPLIANCE WITH CA AB 1953.

AB 1953.

2. ALL EXPOSED WATER PIPING AT PLUMBING FIXTURES SHALL BE CHROME PLATED.

SHUT-OFF VALVES (WATER): BRONZE BODY BALL VALVE WITH TWO-PIECE, FULL PORT STAINLESS STEEL BALL AND STEM, WRGIN TFE SEATS AND SEALS, 600 PSI W.O.C., MSS SP-110. THREADED ENDS, EQUAL TO MILWAUKEE ULTRA PURE VALVE UPBA400/400S SERIES, SOLDER JOINT ENDS, EQUAL MILWAUKEE ULTRA PURE VALVE UPBA450/450S SERIES.

CHECK VALVES (WATER): BRONZE HORIZONTAL SWING TYPE, 300 PSI W.O.G., BRONZE DISC, MSS SP-80, THREADED ENDS, EQUAL TO MILWAUKEE ULTRA PURE CHECK VALVE UP509 SERIES, SOLDER JOINT ENDS, 200 PSI W.O.G., EQUAL TO MILWAUKEE ULTRA PURE CHECK VALVE UP509 SERIES.

A. CLEANOUTS:

1. PROVIDE CAST BRONZE CLEANOUTS IN ACCORDANCE WITH ANSI A112.36.2. FULL SIZE UP TO 4 IN. AND AT LEAST HALF SIZE FOR LARGER PIPES WITH 4 IN. MINIMUM.

2. LOCATE AT CHANGE IN DIRECTION OF MORE THAN 450F AT BASE OF STACKS AND WHERE INDICATED ON DRAWINGS.

3. PIPING IN OR BEHIND WALLS AND PARTITIONS EXTEND OUT OF FINISH WALL AND PROVIDE CAST BRONZE PLUGS WITH SATIN FINISH CP BRASS, NICKEL BRONZE OR STANKLESS STEEL WALL PLATES, J. R. SMITH NO. 4532 IN FINISHED AREAS, IN UNFINISHED AREAS LESS WALL PLATE.

B. WAITER HEATERS:

1. SEE SCHEDULE ON SHEET POO1.

2.06 INSULATION INSULATE WATER PIPING, VALVES WITH 4 LB. DENSITY FIBERGLASS ONE PIECE MOLDED SECTIONAL PIPE COVERING. MAXIMUM K FACTOR: 0.23 AT 75 DEG-F MEAN. SEE ENERGY COMMISSION NOTE 2 ON SHEET

FIRE RETARDANT ALL SERVICE JACKET ON PIPE INSULATION. MAXIMUM FINE. REJARDANT ALL SERVICE JACKET ON PIPE INSULATION. MAXIMUM FLAMESPREAD AND SMOKE RATING 25/50.

VALVES AND FITTINGS: PREMOLDED FIBERGLASS FITTINGS OR RADIAL MITERED SEGMENTS OF PIPE INSULATION TAPED ON, INSULATING CEMENT, FIBERGLASS REINFORCHING CLOTH, AND MASTIC. THICKNESS SAME AS REQUIRED ON PIPING.

NECUMED ON PIPMS.

HW (AND HWR) PIPMS: 1.5 IN. FIBERGLASS SECTIONAL PIPE COVERING. PROVIDE SWEATPROOFING ON DRAINAGE PIPMS FROM ICE MAKER FLOOR DRAINS AND CONDENSATE DRAINS. 2.07 PLUMBING FIXTURES:

A. REFERENCE STANDARDS:

1. AMERICAN NATIONAL STANDARDS INSTITUTE:

0. 1417.1 "SPECIFICATIONS FOR MAKING BUILDINGS AND FACILITIES ACCESSIBLE TO AND USABLE BY PHYSICALLY

3.01 INSTALLATION

DURING THE COURSE OF CONSTRUCTION, COVER EXPOSED FITTINGS WITH BURLAP AND COVER PLUMBING FIXTURES WITH PROTECTIVE HOUSINGS. UNCOVER AND THOROUGHLY CLEAN FIXTURES AND FITTINGS WHEN DIRECTED AND LEAVE FIXTURES IN PERFECT CONDITION AT COMPLETION OF PROJECT. FIXTURES THAT ARE NOT IN PERFECT CONDITION SHALL BI REPLACED BY THIS CONTRACTOR WITHOUT ADDITIONAL COST TO THE CHARLES

SEAL ALL SPACES BETWEEN FIXTURES, AND WALLS OR FLOORS, WITH A NON-YELLOWING OR SHRINKING FLEXIBLE WATER SEALANT

A. DISINFECT DOMESTIC WATER PIPING SYSTEMS AS REQUIRED IN GENERAL NOTES ON PLUMBING DRAWING AND 2010 CALIFORNIA PLUMBING CODE.

SECTION 223300 ELECTRIC DOMESTIC WATER HEATERS DIVISION NO. 22
PLUMBING SPECIFICATIONS

PART 1 -- GENERAL

1.1 RELATED DOCUMENTS A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DMISION OF SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

A THIS SECTION INCLUDES THE FOLLOWING ELECTRIC WATER HEATERS:

ADJUST LIST BELOW TO SUIT PROJECT. 1. Flow-control, Electric, Tankless, Domestic-Water Heaters.
2. Thermostat-control, Instantaneous Electric Water Heaters.
3. Light Duty-commercial Electric, Storage Water Heaters.

1.3 PERFORMANCE REQUIREMENTS

A SEISMIC PERFORMANCE: COMMERCIAL DOMESTIC-WATER HEATERS SHALL WITHSTAND THE EFFECTS OF EARTHQUAKE MOTIONS DETERMINED ACCORDING TO

A. PRODUCT DATA: FOR EACH TYPE AND SIZE OF WATER HEATER INDICATED, INCLUDE RATED CAPACITIES, OPERATING CHARACTERISTICS, FURNISHED SPECIALIES, AND ACCESSORIES.

B. LEED SUBMITTAL:
 1. PRODUCT DATA FOR PREREQUISITE EA 2: DOCUMENTATION INDICATING THAT UNITS. COMPLY WITH ASHRAE/IESNA 90.1-2004, SECTION 7 - "SERVICE WATER HEATING."

D. PRODUCT CERTIFICATES: FOR EACH TYPE OF COMMERCIAL AND INSTANTANEOUS ELECTRIC WATER HEATER, SIGNED BY PRODUCT MANUFACTURER.

F. SOURCE QUALITY-CONTROL REPORTS. G. FIELD QUALITY-CONTROL REPORTS.

H. OPERATION AND MAINTENANCE DATA: FOR ELECTRIC, DOMESTIC—WATER HEATERS TO INCLUDE IN EMERGENCY, OPERATION, AND MAINTENANCE MANUALS. I. WARRANTY: SAMPLE OF SPECIAL WARRANTY.

1.5 QUALITY ASSURANCE

B. PRODUCT OPTIONS: DRAWINGS INDICATE SIZE, PROFILES, AND DIMENSIONAL REQUIREMENTS OF ELECTRIC WATER HEAVERS AND ARE BASED ON THE SPECIFIC SYSTEM INDICATED. REFER TO DOVISION OI SECTION "PRODUCT REQUIREMENTS." C. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

E. ASME COMPLIANCE: WHERE ASME-CODE CONSTRUCTION IS INDICATED, FABRICATE AND LABEL COMMERCIAL, DOMESTIC-WATER HEATER STORAGE TANKS TO COMPLY WITH ASME BOILER AND PRESSURE VESSEL CODE: SECTION VIII, DIVISION 1.

F. NSF COMPLIANCE: FABRICATE AND LABEL EQUIPMENT COMPONENTS THAT WILL BE IN CONTACT WITH POTABLE WATER TO COMPLY WITH NSF 61, "DRINKING WATER SYSTEM COMPONENTS — HEALTH EFFECTS; SECTIONS 1 THROUGH 9" AND ANNEX F & G. A. COORDINATE SIZE AND LOCATION OF CONCRETE BASES WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

1.7 WARRANTY A. SPECIAL WARRANTY: MANUFACTURER'S STANDARD FORM IN WHICH MANUFACTURER AGREES TO REPAIR OR REPLACE COMPONENTS OF ELECTRIC WATER HEATERS THAT FAIL IN MATERIALS OR WORKMANSHER WITHIN SPECIFIED WARRANTY PERIOD.

1. FAILURES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

b. FAULTY OPERATION OF CONTROLS.

DETERIORATION OF METALS, METAL FINISHES, AND OTHER MATERIALS BEYOND NORMAL USE. 2. WARRANTY PERIOD(S): FROM DATE OF SUBSTANTIAL COMPLETION:

G. BOSCH WATER HEATING.

A. IN OTHER PART 2 ARTICLES WHERE TITLES BELOW INTRODUCE LISTS, THE FOLLOWING REQUIREMENTS APPLY TO PRODUCT SELECTION:

2.2 ELECTRIC, TANKLESS, DOMESTIC-WATER HEATERS A FLOM-CONTROL, ELECTRIC, TANKLESS, DOMESTIC-WATER HEATERS:

1. MANUFACTURERS: SUBJECT TO COMPLANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

2. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCT INDICATED ON DRAWINGS OR AN EQUAL PROBUCT BY ONE OF THE FOLLOWING:

> b. CHRONOMITE LABORATORIES, INC. c. EEMAX, INC. d. Stiebel Eltron, Inc. 3. Standard: Ul 499 for Electric, Tankless, (Domestic-Water Heater) Heating appliance. 4. CONSTRUCTION: COPPER PIPING OR TUBING COMPLYING WITH NSF 61 BARRIER MATERIALS FOR POTABLE WATER, WITHOUT STORAGE CAPACITY.

a. CONNECTIONS: ASME B1.20.1 PIPE THREAD. b. PRESSURE RATING: 150 PSIG (1035 KPA). C. HEATING ELEMENT: RESISTANCE HEATING SYSTEM d. TEMPERATURE CONTROL: FLOW-CONTROL FITTING. e. SAFETY CONTROL: HIGH-TEMPERATURE-UMIT CUTOFF DEVICE OR SYSTEM

f. JACKET: ALUMINUM OR STEEL WITH ENAMELED FINISH OR PLASTIC. 5. CAPACITY AND CHARACTERISTICS: AS SCHEDULED 6. SUPPORT: BRACKET FOR WALL MOUNTING.

B. THERMOSTAT-CONTROL, ELECTRIC, TANKLESS, DOMESTIC-WATER HEATERS:

1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING: 2. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROMBE PRODUCT INDICATED ON DRAWINGS OR AN EQUAL PRODUCT BY ONE OF THE FOLLOWING: g. BOSCH WATER HEATING.

b. CHRONOMITE LABORATORIES, INC. c. E-TANKLESS WATER HEATERS CORP. d. KELTECH, INC. e. NIAGARA INDUSTRIES, INC. STANDARD: UL 499 FOR ELECTRIC, TANKLESS, (DOMESTIC-WATER HEATER)
HEATING APPLIANCE.

4. CONSTRUCTION: COPPER PIPING OR TUBING COMPLYING WITH NSF 61 BARRIER MATERIALS FOR POTABLE WATER, WITHOUT STORAGE CAPACITY. a. CONNECTIONS: ASME B1.20.1 PIPE THREAD. b. PRESSURE RATING: 150 PSIG (1035 KPA). c. HEATING ELEMENT: RESISTANCE HEATING SYSTEM.

d. TEMPERATURE CONTROL: THERMOSTAT. e. SAFETY CONTROL: HIGH-TEMPERATURE-LIMIT CUTOFF DEVICE OR SYSTEM. f. Jacket: Alumnum or Steel with Enameled Finish or Plastic.
 Support: Bracket for Wall Mounting.
 capacity and Characteristics: As scheduled

2.3 DOMESTIC-WATER HEATER ACCESSORIES A. DOMESTIC-WATER COMPRESSION TANKS:

1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

2. BASIS-OF-DESIGN PRODUCT: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCT INDICATED ON DRAWINGS OR AN EQUAL PRODUCT BY ONE OF THE FOLLOWING: a. AMTROL INC.

c. HONEYWELL INTERNATIONAL INC. d. PENTAIR PUMP GROUP (THE); MYERS. e. SMITH, A. O. WATER PRODUCTS CO.; A DIVISION OF A. O. SMITH CORPORATION.

g. TACO, INC.
J. DESCRIPTION: STEEL PRESSURE—RATED TANK CONSTRUCTED WITH WELDED JOINTS AND FACTORY—INSTALLED BUTY—RUBBER DIAPHRAGM. INCLUDE AIR PRECINAGE TO MINIMUM SYSTEM—OPERATING PRESSURE AT TANK.

b. Interior Finish: Comply with NSF 61 Barrier Materials for Potable—water tank linings, including extending finish into and through tank fittings and outlets. c. AIR-CHARGING VALVE: FACTORY INSTALLED.

WATER HEATER MOUNTING BRACKETS: WATER HEATER MANUFACTURER'S FACTORY-FABRICATED STEEL BRACKET FOR WALL MOUNTING AND CAPABLE OF SUPPORTING WATER HEATER AND WATER. C. SHOCK ABSORBERS: ASSE 1010 OR PDI-WH 201, SIZE A WATER HAMMER ARRESTER.

2.4 SOURCE QUALITY CONTROL

b. FLEXCON INDUSTRIES

f. STATE INDUSTRIES.

A. FACTORY TESTS: TEST AND INSPECT DOMESTIC-WATER HEATERS SPECIFIED TO BE ASME-CODE CONSTRUCTION, ACCORDING TO ASME BOILER AND PRESSURE VESSEL CODE.

B. ELECTRIC, DOMESTIC-WATER HEATERS WILL BE CONSIDERED DEFECTIVE IF THEY DO NOT PASS TESTS AND INSPECTIONS. COMPLY WITH REQUIREMENTS IN DIVISION OF SECTION "QUALITY REQUIREMENTS" FOR RETESTING AND RENSPECTING REQUIREMENTS AND DIVISION OF SECTION "EXECUTION" FOR REQUIREMENTS FOR CORRECTING THE WORK.

3.1 DOMESTIC-WATER HEATER INSTALLATION A ELECTRIC, TANKLESS, DOMESTIC-WATER HEATER MOUNTING: INSTALL ELECTRIC, TANKLESS, DOMESTIC-WATER HEATERS AT LEAST 18 INCHES ABOVE FLOOR ON

WALL BINACKET.

1. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES.

2. ARRANGE UNITS SO CONTROLS AND DEVICES THAT REQUIRE SERVICING ARE

ACCESSIBLE.

3. PLACE AND SECURE ANCHORAGE DEVICES. USE SETTING DRAWINGS, TEMPLATES, DIAGRAMS, INSTRUCTIONS, AND DIRECTIONS FURNISHED WITH ITEMS TO BE EMBEDDED. HEMS TO BE EMBEDDED.

4. INSTALL ANCHOR BOLTS TO ELEVATIONS REQUIRED FOR PROPER ATTACHMENT TO SUPPORTED EQUIPMENT.

5. ANCHOR DOMESTIC—WATER HEATERS TO SUBSTRATE.

. Install electric, domestic—water heaters level and plumb, according to Layout drawings, original design, and referenced standards. Maintain Manufacturer's recommended clearances. Arrange units so controls and devices needing service are accessible. C. FILL ELECTRIC, DOMESTIC-WATER HEATERS WITH WATER.

D. CHARGE DOMESTIC-WATER COMPRESSION TANKS WITH AIR.

A. COMPLY WITH REQUIREMENTS FOR PIPING SPECIFIED IN DIVISION 22 SECTION "DOMESTIC WATER PIPING." DRAWINGS INDICATE GENERAL ARRANGEMENT OF PIPING, FITTINGS, AND SPECIALTIES.

B. WHERE INSTALLING PIPING ADJACENT TO ELECTRIC, DOMESTIC-WATER HEATERS, ALLOW SPACE FOR SERVICE AND MANTENANCE OF WATER HEATERS. ARRANGE PIPING FOR EASY REMOVAL OF DOMESTIC-WATER HEATERS.

3.4 FIELD QUALITY CONTROL

MANUFACTURER'S FIELD SERVICE: ENGAGE A FACTORY—AUTHORIZED SERVICE REPRESENTATIVE TO INSPECT COMPONENTS, ASSEMBLIES, AND EQUIPMENT INSTALLATIONS, INCLLIONE CONNECTIONS, AND TO ASSIST IN TESTING.
 LEAK TEST: AFTER INSTALLATION, CHARGE SYSTEM AND TEST FOR LEAKS. REPAIR LEAKS AND RETEST UNITE, NO LEAKS EXIST.

B. ELECTRIC, DOMESTIC-WATER HEATERS WILL BE CONSIDERED DEFECTIVE IF THEY DO NOT PASS TESTS AND INSPECTIONS. COMPLY WITH REQUIREMENTS IN DIVISION OI SECTION "QUALITY REQUIREMENTS" FOR RETESTING AND REINSPECTING REQUIREMENTS AND DIVISION OI SECTION "EXECUTION" FOR REQUIREMENTS FOR CORRECTING THE WORK.

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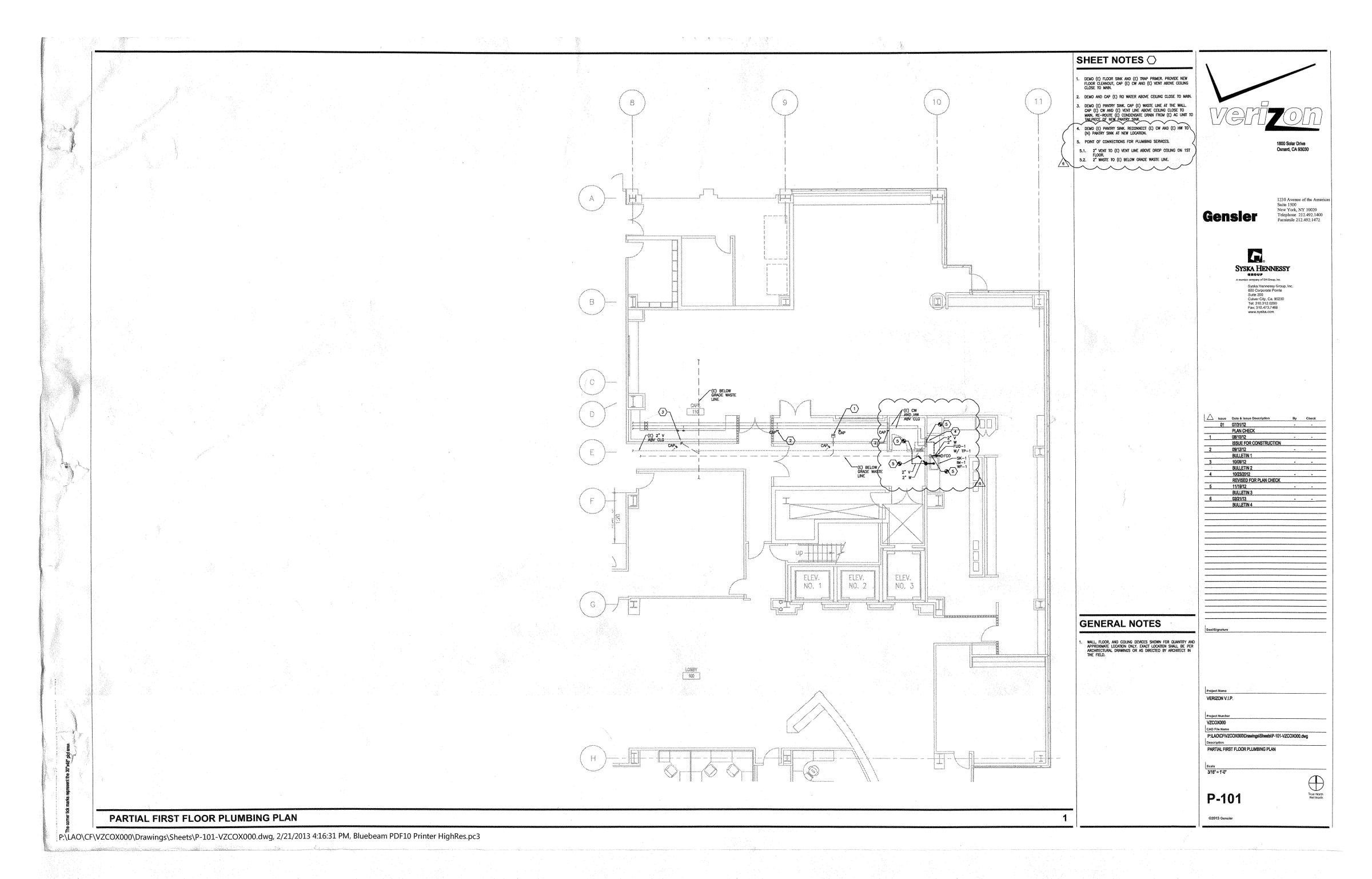
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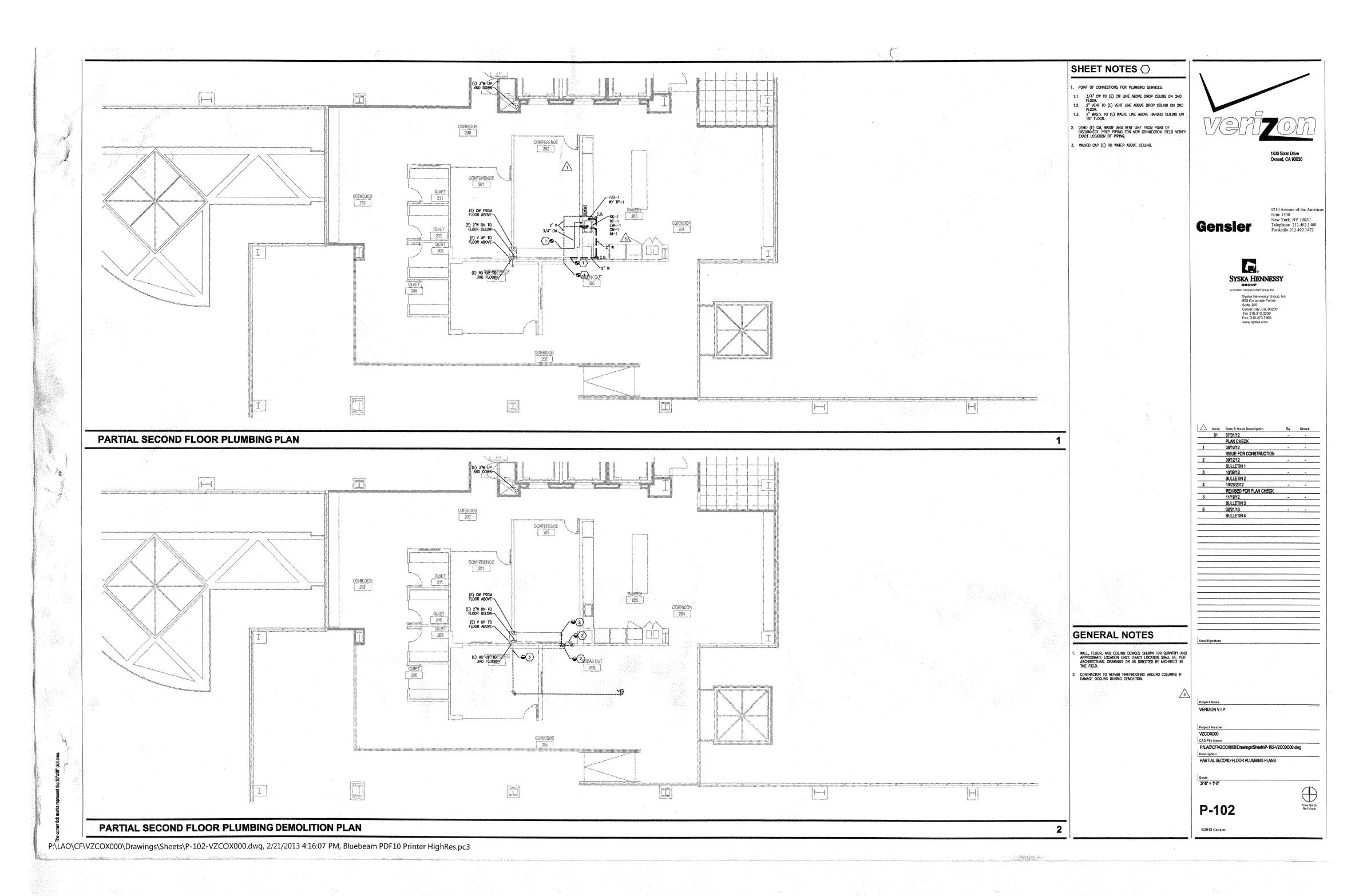
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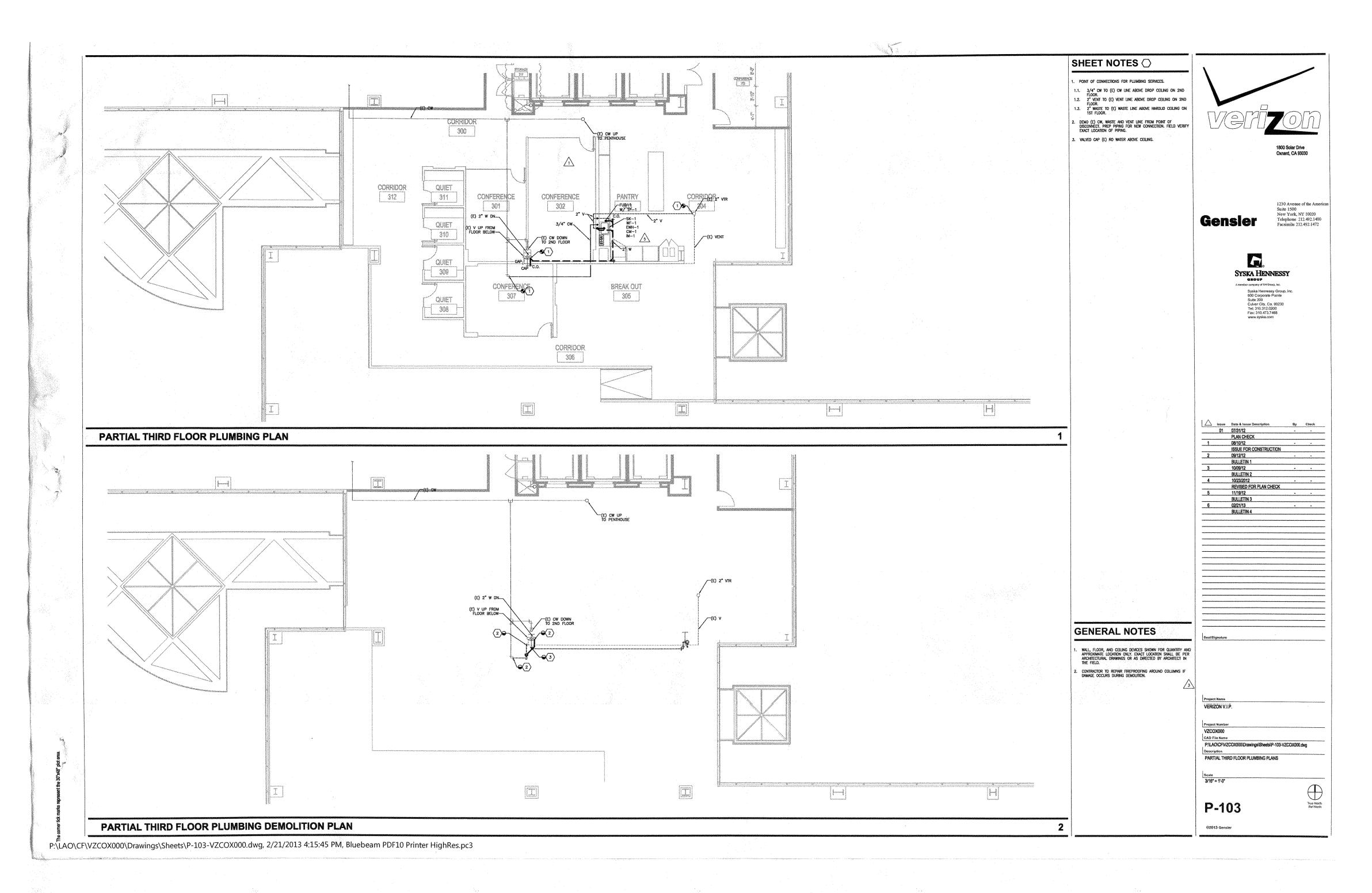
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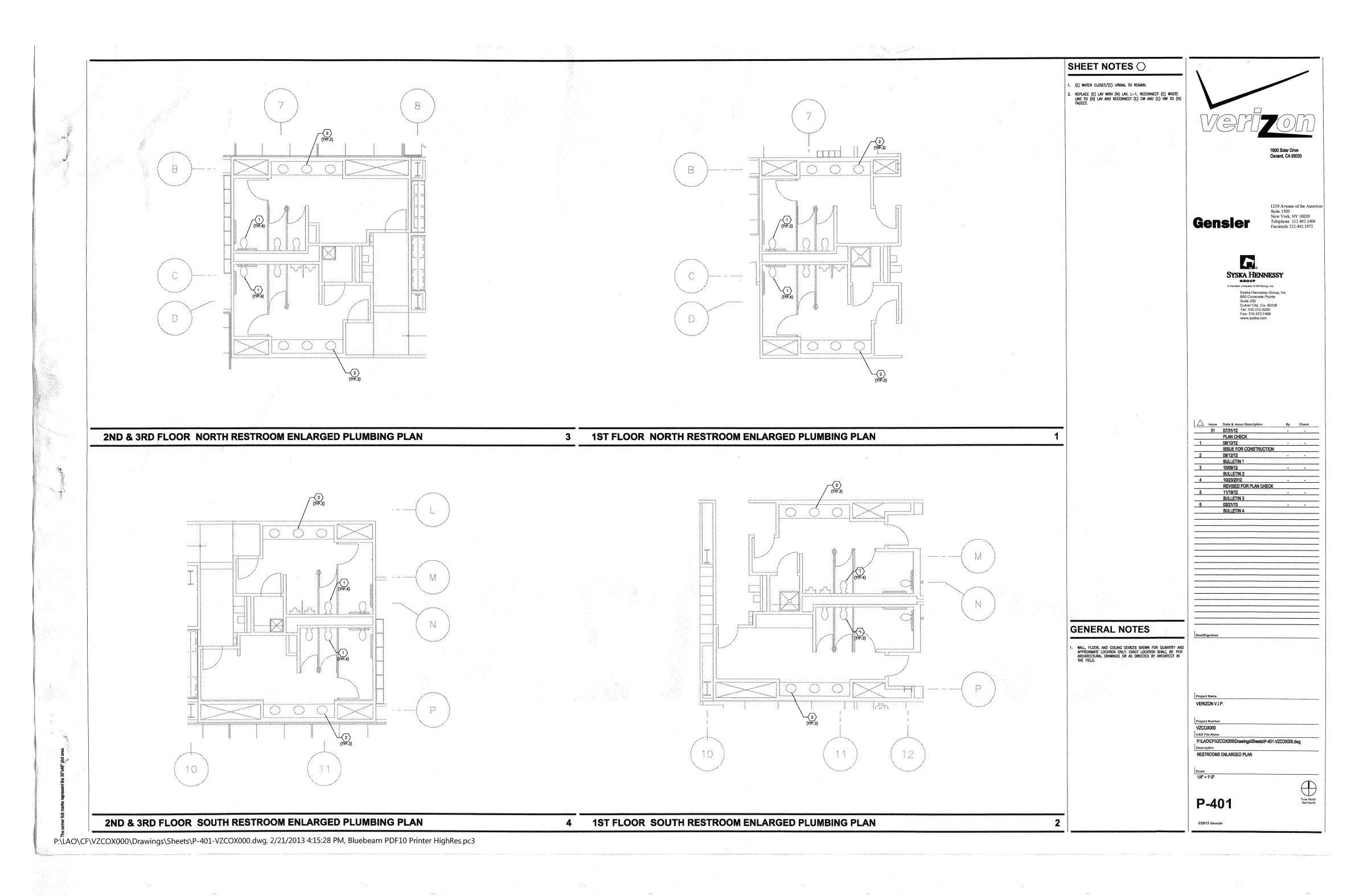
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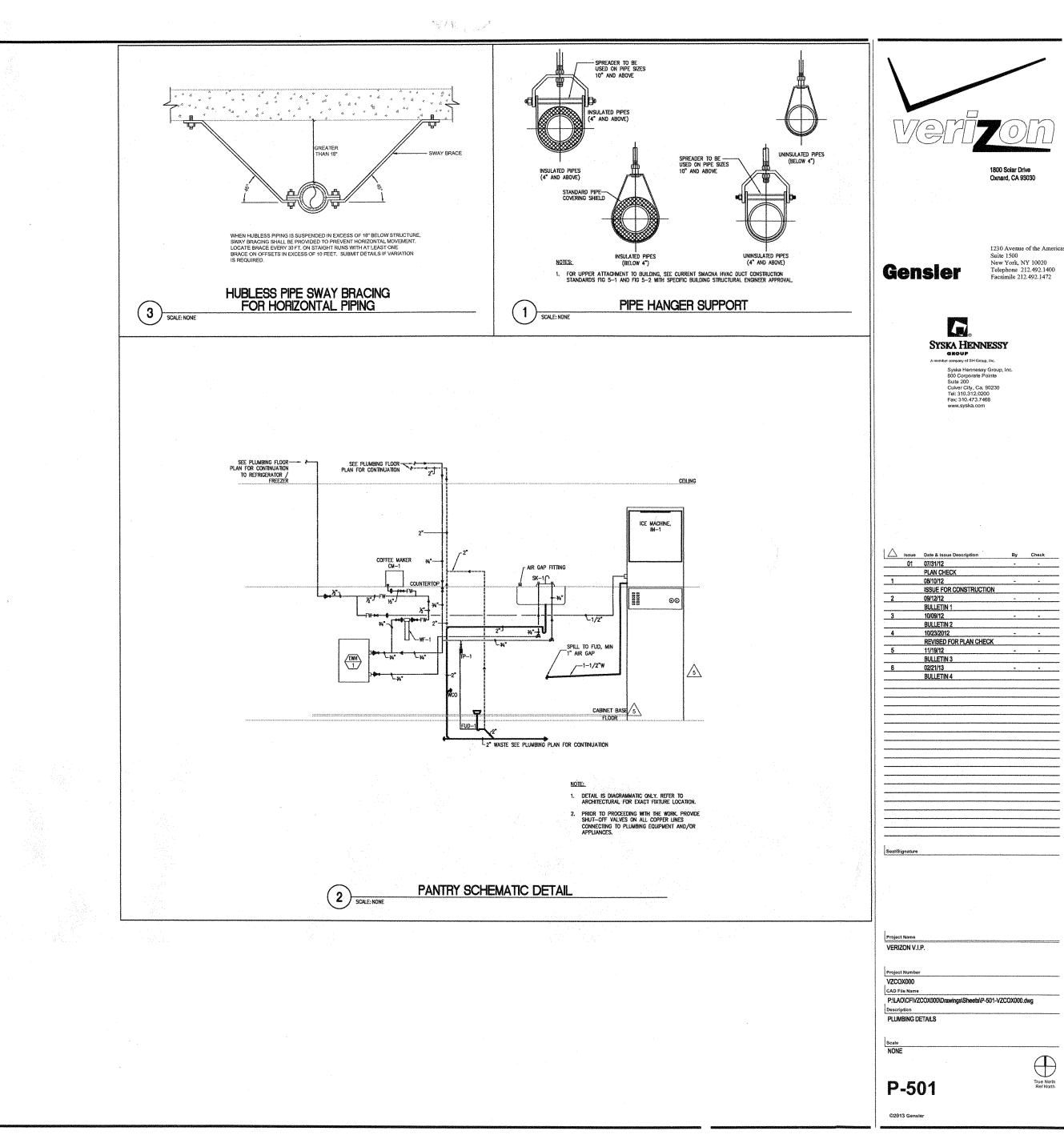
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GENERAL NOTES **ABBREVIATIONS** SYMBOLS (AS APPLICABLE) ALL WORK SHALL BE IN ACCORDANCE WITH, BUT NOT LIMITED TO, STATE, CITY, MECHANICAL CODE AND APPLICABLE AMENDMENTS, PLUMBING CODES, LATEST ENERGY CONSERVATION CODE, LOCAL CODES AND ORDINANCES,. ANNOTATION HUMIDIFICATION
HEATING COIL
HEAD
HAND—OFF—AUTOMATIC
HORIZONTAL
HORSPOWER
HIGH PRESSURE CONDENSATE
HIGH PRESSURE STEAM
HOUSEKEEPING
HEIGHT WHERE THERE IS A DISCREPANCY BETWEEN THE DRAWINGS AND THE PROJECT MANUAL OR BUILDING STANDARD SPECIFICATIONS, NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. NEW PIPING (HOT WATER SUPPLY) 1 SYMBOLS DETAIL OR PLAN NUMBER - 1 DETAIL OR PLAN REFERENCE LOCATION FOUND IN M-201 THE WORK OF THIS PROJECT INVOLVES ALTERATION OF THE EXISTING BUILDING TO ACHIEVE THE ARRANGEMENT INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL WIST THE JOB SITE TO DETERMINE THE EXTENT OF WORK REQUIRED BY THE CONSTRUCTION ACTIVITIES. THE ARCHITECTURAL DRAWINGS SHOW THE CHANGES TO BE MODE. THE CONTRACTOR SHALL REVES, REARRANGE, REFUT OR REMOVE EXISTING HAZO COMPONENTS AS REQUIRED TO ACCOMMODATE THE CHANGES AND ADDITION SHOWN AND TO PROVIDE CONTINUING HVAC SERVICE TO THOSE EXISTING PROTRONS OF THE PROJECT WHICH ARE TO REMAIN IN OPERATION. IN AREAS WHERE NO ALTERATIONS ARE INDICATED, EXISTING FACILITIES SHALL BE RETAINED IN SERVICE. ONLY SELECTED PORTIONS OF EXISTING SYSTEM HAVE BEEN IDENTIFIED ON DRAWINGS. EXISTING PIPING (HOT WATER SUPPLY EXISTING TO BE DEMOLISHED (HOT WATER SUPPLY) VOLT
VARIABLE AIR VOLUME
VOLUME DAMPER
VARIABLE FREQUENCY
VARIABLE FREQUENCY DRIM
VOLTAGE
VENT THROUGH ROOF TRANSFER AIR BOOT (STRAIGHT) (SEE SCHEDULE FOR REQUIREMENTS) RETURN
HIGH TEMPERATURE HOT WATER VF
SUPPLY
HEATING WATER CIRCULATION
HUMIDIFER
HEATING, VENTILATION,
AND AIR CONDITIONING
HOT WATER
HOT WATER PUMP
HOT WATER RETURN
HOT WATER SUPPLY
HERTZ
W/C THESE DRAWINGS INDICATE THE DESIGN INTENT REQUIREMENTS FOR THE HVAC SYSTEMS, EQUIPMENT, DUCTWORK, AIR DISTRIBUTION INLETS AND OUTLETS. DUE TO STRUCTURAL CONDITIONS, ELECTRICAL WIRING OR PIPING INTERFERENCE, OR FOR OTHER REASONS THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS FULLY COORDINATED WITH ALL OTHER TRADES PRIOR TO ANY FABRICATION AND/OR INSTALLATION. HEATING HOT WATER - SUPPLY UNIT
AUTOMATIC CONTROL SYSTEM
DR ACCESS DOOR
AUTOMATIC CONTROL VALVE
AMERICAN DISABILITIES ACT
ADDITIONAL
ADJUSTABLE
AFTER FILTER
AFTER FILTER
AFTER FILTER HEATING HOT WATER - RETURN 1800 Solar Drive DURING BID, THE CONTRACTOR SHALL EXAMINE THE COMPLETE SET OF DRAWINGS FOR ALL TRADES, AS ISSUED BY THE ARCHITECT AND REVIEW DIMENSIONS SPACE REQUIREMENTS AND POINT OF CONNECTIONS TO ALL EQUIPMENT. MAKE ANY MINOR ADJUSTMENTS NECESSARY TO AVOID CONFLICTS WITH THE BUILDING STRUCTURE AND THE WORK OF OTHER TRADES. Oxnard, CA 93030 CONDENSER WATER - SUPPLY WATT
WIDTH
WITH
WITHOUT
WET BULB
WET BULB TEMPERATURE.
WATER COLUMN
WATER GROE
WIRE MESH SCREEN
WATERFORD UNLESS INSTRUCTED OTHERWISE, THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES, AND FEES REQUIRED FOR INSTALLATION OF THE MECHANICAL WORK. FURNISH FINAL CERTIFICATE OF INSPECTION OR WRITTEN EVIDENCE OF ACCEPTANCE BY INSPECTION AUTHORITIES FOR ALL WORK INSTALLED. ABOVE FINISHED FLOOR AIR FLOW MEASUREMENT AFF AFMS TRANSFER AIR DUCT ELBOW WITH ACOUSTIC LINING CONDENSER WATER - RETURN SHEET KEYNOTE CONDENSATE DRAIN -----CNDS -----CONTRACTOR SHALL COORDINATE WITH ALL TRADES TO ENSURE AN UNDERSTANDING OF THE COMPLETE SCOPE OF PROJECT PRIOR TO START OF WORK. SOUND ATTENUATOR INSIDE DIMENSION INCH INCHES, WATER COLUMN INSULATION PROVIDE 6 COPIES OF SUBMITTAL MATERIAL WITH DESCRIPTIVE DATA FOR ALL PRODUCTS AND MATERIALS. AS-BUILT DRAWINGS AT 1/8" SCALE SHALL BE INCLUDED WITH SUBMITTALS. ALLOW 10 DAYS FOR ENGINEER TO REVIEW SUBMITTALS. DOMESTIC WATER EVISION CLOUD (DELTA 1) WATERPROOFING WEATHERPROOF WORKING STEAM PRESSURE AIR TERMINALS 1230 Avenue of the Ameri VALVES New York, NY 10020 Telephone 212.492.1400 Facsimile 212.492.1472 CD-A 100 CEILING SUPPLY DIFFUSER, TYPE A, THROW PATTERN 4-WAY, 100 CFM Gensier KILOWATT KILOWATT HOUR . CONTRACTOR SHALL COORDINATE ACTUAL WORKING HOUR WITH PM, FM AND CHIEF BUILDING ENGINEER PRIOR TO INSTALLATION. BALL VALVE CR-A 100 BUTTERFLY VALVE LEAVING AIR TEMPERATURE EG-A 2 CEILING EXHAUST, TYPE A, 100 CFM LEAVING AIR TEMPERATURE
POUND(S)
LINEAR DIFFUSER
LINEAR FEET (FOOT)
LAIRANT FLOW DIFFUSER
LATENT HEAT
LINEAR
LINEAR
LINEAR
LINEAR
LINEAR
LINEAR
LINEAR
LOW PRESSURE STEAM
LOW RESSISTER
LOW PRESSISTER
LOW PRESSISTER
LOW PRESSISTER
LOW PRESSISTER
LOW PRESSISTER
LOW RESSISTER
LOW RESSISTER
LOW RESSISTER
LOW RESSISTER
LOWER DOOR
LOUVER DOOR
LOUVER DOOR
LOUVER
LEAVING WATER TEMPERATURE ____ BACKDRAFT DAMPER
BACKFLOW PREVENTER
BACKFLOW PREVENTER
UTTERTLY VALVE
BRAKE HORSE POWER
BELOW
BUILDING MANAGEMENT SYSTEM
BOTTOM OF STEEL
BOTTOM OF STEEL CHECK VALVE MECHANICAL NOTES FEEDER TAG 后。 CEILING EXHAUST, TYPE A, 100 CFM AUTOMATIC CONTROL VALVE (2-WAY) \boxtimes TESTING AND BALANCING SHALL BE PERFORMED FOR WORK UNDER THIS CONTRACT. TESTING AND BALANCING SHALL BE PERFORMED ACCORDING TO CURRENT AABC NATIONAL STANDARDS OR NEBB STANDARD. Syska Hennessy EQUIPMENT TAG, DESCRIPTION M, MARK NUMBER 1 AUTOMATIC CONTROL VALVE (3-WAY) ALL DUCT CONSTRUCTION AND DUCT SUPPORT SHALL CONFORM TO SMACNA. ALL DUCTWORK SHALL BE CAPABLE OF WITHSTAND UP TO 4" W.G. STATIC PRESSURE. \boxtimes EXISTING CEILING SUPPLY TO REMAIN Syska Hennessy Group, Inc 800 Corporate Pointe Suite 200 Culver City, Ca. 90230 Tel: 310.312.0200 Fax: 310.473.7468 AIR VENT - AUTOMATIC THERMOSTATS TO BE LOCATED 48" AFF AND CENTERED DIRECTLY ABOVE LIGHT SWITCHES, U.O.N. COORDINATE CONDUIT REQUIREMENTS WITH ELECTRICAL CONTRACTOR. EXISTING CEILING RETURN TO REMAIN AIR VENT - MANUAL 1.0 to FA COOLING COIL
CAPACITY
COOLING COIL
CUBIC FEET PER MINUTE A MINIMUM OF 35" CLEAR WORKING SPACE, NOT LESS THAN 30" WIDE, SHALL BE MAINTAINED IN FRONT OF ALL SWITCHES, OVERCURRENT DEVICES AND ELECTRIC CONTROL COMPONENTS, AND PER NEC REQUIREMENTS. EXISTING CEILING EXHAUST TO REMAIN VALVE AND CAP MIXED AIR TEMPERATURE CONTRACTOR SHALL PROVIDE WRITTEN WARRANTY TO REPLACE ALL FAULTY MATERIALS AND/OR LABOR, AT NO COST TO OWNER, FOR A PERIOD OF ONE YEAR FROM DATE OF OWNER ACCEPTANCE. VALVE AND CAP BRITISH THERMAL UNIT (1000)
THOUSAND BTU PER HOUR
MECHANICAL CONTRACTOR
MOTOR CONTROL CENTER 12"X6" SIDEWALL SUPPLY REGISTER, 150 CFM UPON COMPLETION OF WORK, CONTRACTOR SHALL CLEAN AND REMOVE ALL DEBRIS ASSOCIATED WITH HIS/HER WORK AND DISPOSE OF IT. AREA SHALL BE LEFT IN A CONDITION ACCEPTABLE TO OWNER. UNDERCUT DOOR VALVE AND CAP MOTOR CONTROL CENTER
MECHANICAL
MECHANICAL EQUIPMENT ROOM
MANUFACTURING
MANUFACTURER
MOTOR HORSE POWER
MINIMUM METALEMENT ALL MATERIALS AND EQUIPMENT ABOVE CEILING SHALL BE UL RATED FOR PLENUM APPLICATIONS. POINT OF CONNECTION BALANCING VALVE ALL SUPPLY AND RETURN AIR DUCT SHALL BE INSULATED PER TITLE 24. ROUND SUPPLY DIFFUSER POINT OF DISCONNECTION THESE DRAWINGS INDICATE THE FINISHED REQUIREMENTS FOR THE MECHANICAL. **@** ROUND RETURN DIFFUSER DUCTS, PIPES AND CONDUITS SHALL BE SUPPORTED AND BRACED IN ACCORDANCE WITH 2008 SMACNA (GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS PUBLISHED BY SMACNA). DUCT OTHER CONTRACTOR IS TO PROVIDE AND COORDINATE STRUCTURAL MOUNTING AND SEISMIC ANCHORAGE FOR ALL EQUIPMENT SHOWN ON THE PLANS OR SPECIFIED, INCLUDING THOSE SHOWN SPECIFICALLY ON THE DETAIL SHEETS. SINGLE LINE DUCTWORK (NEW) (HEATING)
CONTROL PANEL
CONDENSATE RETURN PUMP
CONSTROL VALVE
CONTROL VALVE
CONDENSER WATER PUMP
CONDENSER WATER RETURN
CONDENSER WATER SUPPLY MEDIUM PRESSURE STEAM MOTOR STARTER MOTORIZED SMOKE DAMPER MEAN TEMPERATURE "Y" TYPE STRAINER -44-PIPING SHOWN ON THE DRAWINGS ARE SCHEMATIC ONLY. PIPING SEISMIC ANCHORAGE, SUPPORT, AND THERMAL EXPANSION DEVICES ARE TO BE INCORPORATED IN THE SHOP DRAWINGS. SHOP DRAWINGS ARE TO BE SUBMITTED TO STRUCTURAL ENGINEER FOR APPROVAL PIPING SEISMIC ANCHORAGE, SUPPORT AND THERMAL EXPANSION DEVICES ARE TO BE PROVIDED BY CONTRACTOR TO MEET ALL CODE REQUIREMENTS. VAV BOX SINGLE LINE DUCTWORK (EXISTING) PIPING CONN.—BLW DIFFERENCE MOUNTING HEIGHT MEDIUM TEMPERATURE HOT SINGLE LINE DUCTWORK (EXIST. TO BE DEMOLISHED) PIPING CONN.—DWN SINGLE DUCT VAV BOX 4. COORDINATE ALL CUTTING, DRILLING, PATCHING AND REINFORCING REQUIRED FOR MECHANICAL WORK WITH GENERAL CONTRACTOR. 01 07/31/12 MATER RETURN
MEDIUM TEMPERATURE HOT
WATER SUPPLY
MAKE UP WATER LINE DOUBLE LINE DUCTWORK (NEW) S. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER SO AS NOT TO INTERRUPT THE OPERATIONS OF THE FACILITY, EXISTING PLANT SHALL REMAIN OPERATIONAL, NO DRAIN DOWN OF ACTIVE LINES. PLAN CHECK DROP
EXISTING TO BE DEMOLISHED
DUCT ACCESS PANEL DOUBLE LINE DUCTWORK (EXISTING) (E)SA SINGLE DUCT VAV BOX WITH ATTENUATOR ISSUE FOR CONSTRUCTION -DOUT ACCESS PANEL
DECIBEL
DRY BULB
UNIT OF SOUND LEVEL
DRY BULB TEMPERATURE
DIERCET DIGITAL CONTROL
DEFLECTION
DEGREE
DIAMETER
DEMONIZED WATER
DAMPER
DOWN
DEW POINT TEMPERATURE
DRAIN 09/12/12 (D)SA 7. ALL EQUIPMENT AND MATERIALS SHALL MATCH BASE BUILDING SPECIFICATIONS. T THERMOSTAT CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING. **BULLETIN 2 ©**2 SINGLE DUCT VAV WITH REHEAT CARBON DIOXIDE SENSOR DUCTWORK WITH ACOUSTIC LINING 20, ALL PIPING AND ASSOCIATED FITTINGS AND VALVES SHALL BE OF SIMILAR MATERIAL PER CODE, UNLESS APPROVED OTHERWISE. OXYGEN OUTSIDE AIR OUTSIDE DIAMETER OUTSIDE VELOCITY 21. ALL PIPING SHALL BE LABEL EVERY 10 FT MFR SHALL BE MSI OR APPROVED EQUAL 11/19/12 \boxtimes DUCT UNDER POSITIVE PRESSURE SUPPLY DUCT OR FAN DISCHARGE SINGLE DUCT VAV BOX WITH REHEAT AND ATTENUATOR BULLETIN 3 22. ALL PIPING PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE PROPER FIRE STOP WITH UL-LISTED FIRE STOPPING PRODUCTS. CONSULT WITH UL FIRE RESISTANCE DIRECTORY FOR ADDITIONAL REQUIREMENTS. DRAIN DOOR LOUVER DISTILLED WATER DRAWING DUPLEX DUCT UNDER NEGATIVE PRESSURE RETURN, EXHAUST OR OUTSIDE AIR 23. ALL PIPING PENETRATIONS THROUGH NON-RATED CONSTRUCTION SHALL BE PROPERLY AND GENEROUSLY CAULKED WITH SOUND RESISTANT MATERIAL SUCH AS SILICONE. BULLETIN 4 POUNDS PER CUBIC FOOT PRIMARY CHILLED WATER RETURN PRIMARY CHILLED WATER SUPPLY PRESSURE DROP OR DIFFERENCE PERFORATED PER FILTER PHASE UP DUAL DUCT VAV BOX PCHWS DROP IN DUCTWORK (IN DIRECTION OF AIR FLOW) 25. PIPING AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE WORKING PRESSURES INDICATED IN THE BUILDING SPECIFICATIONS. EXHAUST AIR REGISTER ENTERING AIR TEMPERAT ELECTRIC CONTRACTOR 26. CONTRACTOR SHALL PRESSURE TEST ALL NEW WORK TO 1-1/2 TIMES WORKING PRESSURE AND HOLD TEST PRESSURE FOR 24 HOURS WITH NO CHANGE IN READING. REHEAT COIL ELECTRIC CONTRACTOR UNIT ELECTRIC CONTRACTOR UNIT ENTERING DRY BULB TEMPERATURE ENERGY EFFICIENCY RATIO EXHAUST FAN EFFICIENCY ELEVATION ELECTRIC EQUIAL EXTERNAL STATIC PRESSURE ENTERING WET BULB TEMPERATURE ENTERING WATER TEMPERATURE ENTERING WATER TEMPERATURE EXHAUST AIR EXISTING TO REMAIN EXISTING TO REMAIN FAN POWERED VAV BOX CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINING AND REFILLING PORTIONS OF SYSTEM AS REQUIRED. CONTRACTOR TO COORDINATE WITH BUILDING ENGINEER PRIOR TO ANY DRAINING OF PIPING SYSTEMS. PHASE
PREMAY HOT WATER RETURN
PRIMARY HOT WATER SUPPLY
PLUMBING
POSTIVE
POSTSTUPE
POST 铝 28. UPON COMPLETION OF WORK, CONTRACTOR SHALL CLEAN AND REMOVE ALL DEBRIS ASSOCIATED WITH HIS/HER WORK AND DISPOSE OF IT. AREA SHALL BE LEFT IN A CONDITION ACCEPTABLE TO OWNER. DUCT TRANSITION SHUT-OFF VAV BOX (INLET SIZES AVAILABLE: 5",6",8",10",12",14",16") 9. PROVIDE ACCESS PANEL ON THE CEILING FOR EQUIPMENT LOCATION ABOVE HARD LID CEILING. COORDINATE SIZE AND LOCATION OF ACCESS PANEL WITH ARCHITECT. VANED ELBOW POUNDS PER SQUARE INCH, RADIUS ELBOW THERMAL RESISTANCE THERMAL RESISTANCE
RISE
REMOVE
RETURN AIR
REGEREN
REGEREN
REGEREN
REGESSED
REFRIEGERATION
REGISTER
REMOVBLE
REQUIRED
REFRIEGERATION
REGISTER
REMOVABLE
REQUIRED
REFRIEGERANT
RELATIVE HUMIDITY
REHEAT COIL
RUNNING LOAD AMPERES
ROOM
ROTATION
REVOLUTIONS PER MINUTE
REFRIEGERANT RELEF VENT
REFRIEGERANT RELEF VENT
REFRIEGERANT RELEF VENT
REFRIEGERANT SUCTION LINE FAHRENHEIT
FACE AREA
FRESH AR INLET (INTAKE)
FIRE ALARM SYSTEM
FAN COIL UNIT
FIRE DAMPER
FUR FINISH FLOOR
FINISH GRADE
FULL LOAD AMPERES
FLEXIBLE
FILTER
FUEL OIL PUMP
FUEL OIL SUPPLY
FUEL OIL SUPPLY
FUEL OIL STOPAGE TANK ACCESS DOOR SMOKE DAMPER AND ACCESS DOOR DUCT FITTING (SEE DETAILS) SHEET INDEX FUEL OIL STORAGE TANK
FIREPROOF
FINS PER INCH
FEET PER MINUTE
FEET PER SECOND
FOOT
FEET
FOOT/POUND
FINNED TUBE. RADIATION
FACE VELOCITY SHEET NO. DESCRIPTION SCALE VERIZON V.I.P. MECHANICAL SYMBOLS, ABBREVIATIONS AND GENERAL NOTES
MECHANICAL SPECIFICATIONS
TITLE=24 COMPLANCE FORMS MECHANICAL MISCELLANEOUS OVERALL SECOND FLOOR MECHANICAL DEMOLITION PLAN OVERALL THIRRO FLOOR MECHANICAL DEMOLITION PLAN BULANGED SECOND FLOOR MECHANICAL DEMOLITION PLAN ENLARGED THIRD FLOOR MECHANICAL DEMOLITION PLAN 3/32" = 1'-0" 3/32" = 1'-0" 3/16" = 1'-0" 3/16" = 1'-0" VZCOX000 MD-103 MD-402 MD-403 CAD File Name ~S--SUPPLY AIR SUPPLY AIR REGISTER SMOKE DAMPER STRUCTURAL ENGINEER SUPPLY FAN SQUARE FOOT (FEET) SHUT OFF VALVE STATIC PRESSURE SPECIFICATION SQUARE INCH SQUARE TARD STANLESS STELL STANLESS STRUCTURAL P:\LAO\CF\VZCOX000\Drawings\Sheets\M-001-VZCOX000.dwg 3/32" = 1'-0" 3/32" = 1'-0" 3/32" = 1'-0" 3/32" = 1'-0" 3/16" = 1'-0" 3/16" = 1'-0" 3/16" = 1'-0" 3/16" = 1'-0" 3/16" = 1'-0" OVERALL FIRST FLOOR MECHANICAL PLAN OVERALL SECOND FLOOR MECHANICAL PLAN OVERALL THIRD FLOOR MECHANICAL PLAN OVERALL ROOF MECHANICAL PLAN ENLARGED FIRST FLOOR MECHANICAL PLAN ENLARGED SECOND FLOOR MECHANICAL PLAN ENLARGED SECOND FLOOR MECHANICAL PLAN ENLARGED SECOND FLOOR MECHANICAL PLAN ENLARGED THEN PLAN FLOOR FLOOR FLOOR MECHANICAL PLAN ENLARGED THEN FLOOR MECHANICAL PLAN FLOOR FLOOR MECHANICAL PLAN FLOOR FLOOR MECHANICAL PLAN FLOOR FLOO M-101 M-102 M-103 M-104 M-401 M-402A M-402A M-403 M-404A M-404B NATURAL GAS
GALLON
GALVANIZED
GLYCOL CHILLED WATER
RETURN
GLYCOL CHILLED WATER
SUPPLY
GLYCOL HEATING RETURN
GLYCOL HEATING SUPPLY
GALLONS PER HOME
GALLONS PER HOME
GALCOL RETURN
GRILLE
GLYCOL SUPPLY MECHANICAL SYMBOLS, ABBREVIATIONS AND GENERAL NOTES SP SPEC SQ IN SQ YD SST STNLS STRUCT True North Ref North ENLARGED THIRD FLOOR MECHANICAL PLAN ENLARGED ROOF MECHANICAL PLAN ENLARGED ROOF MECHANICAL PLAN M-001 NONE M-501 M-502 NONE 5 3 M-701 MECHANICAL SCHEDULES THROAT TOTAL DYNAMIC HEAD TEMPERATURE ©2013 Gensler

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SPECIFICATIONS

New York, NY 10020 Telephone 212.492.1400 Facsimile 212.492,1472

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True North Ref North

MANDATORY MEASURES

CERTIFICATION OF EQUIPMENT EFFICIENCY (\$110 AND \$111)

ANY APPLIANCE FOR WHICH THERE IS A CALIFORNIA STANDARD ESTABLISHED IN THE APPLIANCE EFFICIENCY REGULATIONS MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED TO THE COMMISSION, AS SPECIFIED IN THOSE REQUILATIONS, THAT THE APPLIANCE COMPLIES WITH THE APPLICABLE STANDARD FOR THAT APPLIANCE.

CERTIFICATION BY MANUFACTURERS, ANY SERVICE WATER—HEATING SYSTEM OR EQUIPMENT MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED THAT THE SYSTEM OR EQUIPMENT COMPULES WITH ALL OF THE REQUIREMENTS OF THIS SUBSECTION FOR THAT SYSTEM OR EQUIPMENT

VENTILATION(§121)

- 3. ALL ENCLOSED SPACES IN A BUILDING THAT ARE NORMALLY USED BY HUMANS SHALL BE VENTILATED IN ACCORDANCE WITH THE REQUIREMENTS OF THIS SECTION AND THE CBC.
- THE OUTDOOR AIR-VENTILATION RATE AND AIR-DISTRIBUTION ASSUMPTIONS MADE IN THE DESIGN OF THE VENTILATING SYSTEM SHALL BE CLEARLY IDENTIFIED ON THE BUILDING PLANS REQUIRED BY \$10-103 OF TITLE 24, PART 1 CONTROLS (§122).
- 5. CRITERIA FOR ZONAL THERMOSTATIC CONTROLS. THE INDMIDUAL THERMOSTATIC CONTROLS REQUIRED BY SECTION 122(A) SHALL MEET REQUIREMENTS; FOR HEATING SHALL BE CAPABLE OF BEING SET, LOCALLY OR REMOTELY, DOWN TO 55F OR LOWER, OR FOR COOLING IT SHALL BE CAPABLE OF BEING SET, LOCALLY OR REMOTELY, UP TO 85'F OR HIGHER.

PIPE INSULATION (§123)

THE PIPING FOR ALL SPACE-CONDITIONING AND SERVICE WATER-HEATING SYSTEMS WITH FLUID TEMPERATURES LISTED IN TABLE 123-A SHALL INSTALL THE AMOUNT OF INSULATION SPECIFIED.

DUCT CONSTRUCTION AND INSULATION (§124).

7. ALL AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS, INCLUDING, BUT NOT LIMITED TO, BUILDING CAMTRES, MECHANICAL CLOSETS, AR-HANDLER BOXES AND SUPPORT PLATFORMS USED AS DUCTS OR PLENUMS, SHALL BE INSTALLED, SEALED AND INSULATED TO MEET THE REQUIREMENTS OF THE 2010 CMC SECTIONS 601, 602, 603, 604, 605, AND STANDARD 6-5. ACCEPTANCE TESTS (§125 AND REFERENCE NONRESIDENTIAL APPENDIX NA7).

FIELD INSPECTION ENERG Project Name:	Y CHECKLIST		(Part 1	
VERIZON'S TENANT IMPROVEMENT			Date: 11/15/2012	Climate Zone:
Project Address: 1800 SOLAR DRIVE, OXNARD, CA				Conditioned Floor Area: 13800 SQF
General Information				
Building Type: Nonresis	dentiel High-Rise Resid	ential Hotel/M	otel Guest Roo	m
Schools (Public School) Relocat	able Public School Bldg.	Conditioned Spaces	Uncondition	med Spaces
Phase of Construction:	New Construction	ddition	Ø	Alteration
Approach of Compliance:	Component 🗆 O	verali Envalope TDV En	ergy 🗆	Unconditioned (file affider
Front Orientation: N, E, S, W or in Degrees	; NE			
HVAC SYSTEM DETAILS		FIELD INSPEC	TION EN	ERGY CHECKLIS
TITLE CICIENT DESTRUCT	T		s Criteria or R	
Equipment ²	Inspection Criteria	Special Feature	Pass	Fail - Describe Reason
Items or System Tegs (i.e. AC-1, RTU-1, HP-1)	VAV BOXES			
Equipment Type ⁴ :	VAV			
No of Systems	17 🛆	<u> </u>		
Max Allowed Heating Capacity	N/A /5			
Minimum Heating Efficiency	N/A			
Max Allowed Cooling Capacity	N/A	<u> </u>	<u> </u>	<u> </u>
Cooling Efficiency	N/A	<u> </u>	<u> </u>	
Duct Location/R-Value	M-103, R-4.2	<u> </u>	10	
Duct Leakage Testing - If Yes, a MECH - 4A must be submitted	N/A			
Economizer	N/A			
Thermostat	SETBACK	<u> </u>	<u> </u>	<u> </u>
Fan control	N/A	<u> </u>	<u> </u>	
				ERGY CHECKLIS
Equipment ²	Inspection Criteria	Special Feature	Pess	Fall - Describe Resson
Items or System Tags (i.e. AC-1, RTU-1, HP-1)	FP BOXES			
Equipment Type*:	FAN POWERED			
No of Systems	9			
Max Allowed Heating Capacity	N/A .			
Minimum Heating Efficiency	N/A			
Max Allowed Cooling Capacity	N/A			
Cooling Efficiency	N/A	<u> </u>		
Duct Location/R-Value	M-103, R-4.2	<u> </u>	<u> </u>	
Duct Leakage Testing - If Yes, a MECH - 4A must be submitted Economizer	N/A	 		
Thermostat	N/A SETBACK	 		<u> </u>
Fan control	SEIBACK N/A	 	+-뮤	<u> </u>
Indicate special feature DETAILS on		ist Form.		<u> </u>

AIR SYSTEM REQUIREMEN	rs .		(Part 1 of 3)	MECH-2C
Project Name: VERIZON'S TENANT IMPROVEMENT				Date: 11/15/2012
	Indicate Ai	r Systems Type (Centrel,	Single Zone, Peckage,	VAV or etc)
Item or System Tags (i.e. AC-1, RTU-1, HP-1)		VAV BOXES	FP BOXES	AC UNITS
No. of Systems		17.	9	3
	Δ	5 Indicate Page Refa	rence on the Plans or 5 Information below	ichedule list or list
MANDATORY MEASURES	T-24 Sections			T
Heating Equipment Efficiency	112(a)	N/A	N/A	N/A
Cooling Equipment Efficiency	112(a)	N/A	N/A	N/A
HVAC or Heat Pump Thermostats	112(b), 112(c)	N/A	N/A	M-401
Furnace Controls/Thermostat	112(c), 115(a)	N/A	N/A	N/A
Natural Ventilation	121(b)	N/A	N/A	N/A
Mechanical Ventilation	121(b)	M-003	M-003	(E), M-401
VAV Minimum Position Control	121(c)	M-701	M-701	N/A
Demand Control Ventilation	121(c)	N/A	N/A	N/A
Time Control	122(e)	N/A	N/A	. NA
Setback and Setup Control	122(e)	N/A	N/A	N/A
Outdoor Damper Control	122(f)	N/A	N/A	N/A
Isolation Zones	122(g)	NA	N/A	N/A
Pipe Insulation	123	M-003	M-003	M-003
Duct insulation	124	M-003	M-003	N/A
PRESCRIPTIVE MEASURES				
Calculated Design Heating Load	144(a & b)	N/A	N/A	N/A
Celculated Design Cooling Load	144(a & b)	N/A	N/A	N/A
Fan Control	144(c)	N/A	N/A	CONSTANT
DP Sensor Location	144(c)	N/A	N/A	NA
Supply Pressure Reset (DDC only)	144(c)	N/A	N/A	. N/A
Simultaneous Heat/Cool	144(d)	N/A	N/A	N/A
Economizer	144(e)	N/A	N/A	N/A
Heat and Cool Air Supply Reset	144(f)	N/A	N/A	N/A
Electric Resistance Heating	144(g)	. N/A	N/A	N/A
Heat Rejection System	§144(h)	N/A	N/A	N/A
Air Cooled Chiller Limitation	§144(i)	N/A	N/A	N/A
Duct Leakage Sealing, If Yes, a MECH-4-A must be submitted f. Total installed capacity (MBku/hr) of all	144(k)	N/A	N/A	N/A

Test Descri		MECH-12A	MECH-13A	MECH-14A	MECH-SA	
Equipment Requiring Testing or Verification	# of units	Fault Detection & Diagnostics for DX Units	Automatic Fault Detection & Diagnostics for Air & Zone	Distributed Energy Storage DX AC Systems	Thermal Energy Storage (TES) Systems	Test Performed By:
VAV BÖXES	17	ΛΠ				N/A .
FP BOXES	9	75 🗍				N/A
AC UNITS	3					MECHANICAL CONTRACTOR A
						/3\
/						
				<u> </u>		
	<u> </u>	<u> </u>				
					<u> </u>	
						<u> </u>
				<u> </u>		

	IANICA				ND RE	HEAT						MECH-	3-C
ROJECT	IAME: VERI	ZON TENA	INT IMPROVE	MENT							DATE: 11		
			MECHANIC	AL VENTIL	ATION (812	1(b)2)²			REHE	AT LIMIT	ATION (§144	(d))	
	Al	tea basis		00	CUPANCY BA	818				VAV	Unimum		
A	В	C	D	E	F	G	Н	ı	J	K	L	M	N
Zone/ System	Condition Area (ft*)	CFM per (ff*)	Min CFM by Area B x C	Num of People	CFM per Person	Min CFM by Occupant E x F	REQ'D V.A. Max of D or G	Design Ventilation Air cfm	50% of Design Zone Supply	B x 0.4 cfm/ft*	Max of Columns H, J, K, or 300 cfm	Design minimum Air setpoint	Transfer Air
PB-1-1	480	0.15	72	31	15	465	465	500	530	240	530	.500	
PB-1-2	420	0.15	63	13	15	195	195	295	490 705	168	490	295	
PB-1-3 AV-1-20	420 1740	0.15	63 261	13 76	15 15	195 1140	195 1140	425 1140	705 1090	168 696	705 1090	425 1140	
AV-1-24	410	0.15	62	1	15	15	62	250	420	164	300	240	
P8-2-1	400	0.15	60	8	15	120	120	385	540	160	840	450	
P8-2-2	630	0.15	. 95	2	15	30	95	290	480	252	480	240	
PB-2-3 AV-2-7	380 265	0.15 0.15	57 40	19	15 15	285 60	285 60	480 210	800 350	152 110	800 350	480 210	
AV-2-8	260	0.15	40	16	15	240	240	360	600	105	600	360	
AV-2-9	260	0.15	40 90	13	15 15	195	195 180	360 360	600	105	600	360	
AV-2-9 AV-2-25	600	0.15	90	12	15	180	180	300	500	120	500	300	
AV-2-26	500	0,15	76	8	15	120	120	290	480	200 80	480	285	
AV-2-27 AV-2-28	200 500	0.15	30 75	8	15 15	120 60	120 75	150 120	250 200	100	225 200	150 120	
AV-2-29	200	0.15	30	8	15	120	120	150	250	60	225	150	
PB-3-1	400	0.15	60 95 57	8	15	120 30 285	120	385	640	160	640	450	
PB-3-2	630	0.15 0.15	95	2 19	15	30	96 285	290	480	252 152	480 800	240	
PB-3-3 /AV-3-7	380 275	0.15	45	10	15 15	150	150	480 265	800 440	110	440	480 265	
/AV-3-8	300	0.15	45	10	15	150	150	400	660	120	660	400	
AV-3-21	500	0.15	75	8	15	120	120	250	480	200	460	285	
AV-3-22	600	0.15	90	12 8	15	180	180	300 150	500	120 80	500	300	
AV-3-26 AV-3-26	200 200	0.15	30 30	8	15 15	120 120	120	150	250 250	80	225 225	150 150	
AV-3-27	500	0.15	75	4	15	60	75	120	200	200	200	75	
2.7		,	Totals	325			5082	8500	Column I	Total Deel	gn Ventiletk	on Air	
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<u>C</u> E	Based on	fixed se	on rate per : at or the gre	Section §1. Sater of the	21, Table 1 expected	21-A. number of oc	cupants a	nd 50% of the CB	C occupar	nt load for	egress pur	poses for spa	aces without
	Required		on Air (RFC	D V.A.) is	the larger	of the ventila	tion rates	calculated on an i	AREA BAS	IS or OCC	CUPANCY	BASIS (Colu	mn D or G).
-1/	Must be o	reater th	an or equa	to H or us	e Transfer	Air (column	N) to make	up the difference				10010	
	Design fa	n sunniv	cfm (Fan C	FM) x 50%	or the de	Sign zone pu	tdoor airfic	w rate per \$121.					
K			x 0.4 cfm/		, 5, 5,5 00				*************				
- 17			nns H, J, K										

) MECH-10	(Part 5 of 5)	CKLIST	ELD INSPECTION ENERGY CHEC
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		mentation is accurate and comple	I certify that this Certificate of Compliance docur
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·			GELICA KAPRIELIAN
	Date: 11/15/2012		IDENY: BKA HENNESSY GROUP INC.
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and the second s	Phone:	**************************************	/State/Zip
	(310) 312-0200		LVER CITY, CA 90230 Incipal Mechanical Designer's Decla
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1230 Avenue of the Americas Suite 1500 New York, NY 10020 Telephone 212,492,1400 Facsimile 212,492,1472

Gensler

Syska Hennessy Group, Inc. 800 Corporate Pointe Suite 200 Culver City, Ca. 90230 Tel: 310.312.0200 Fax: 310.473.7488 www.syska.com

Syska Hennessy

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1		08/10/12		
		ISSUE FOR CONSTRUCTION		
2		09/12/12		
		BULLETIN 1		
3		10/09/12		
		BULLETIN 2		
4		10/23/2012	-	•
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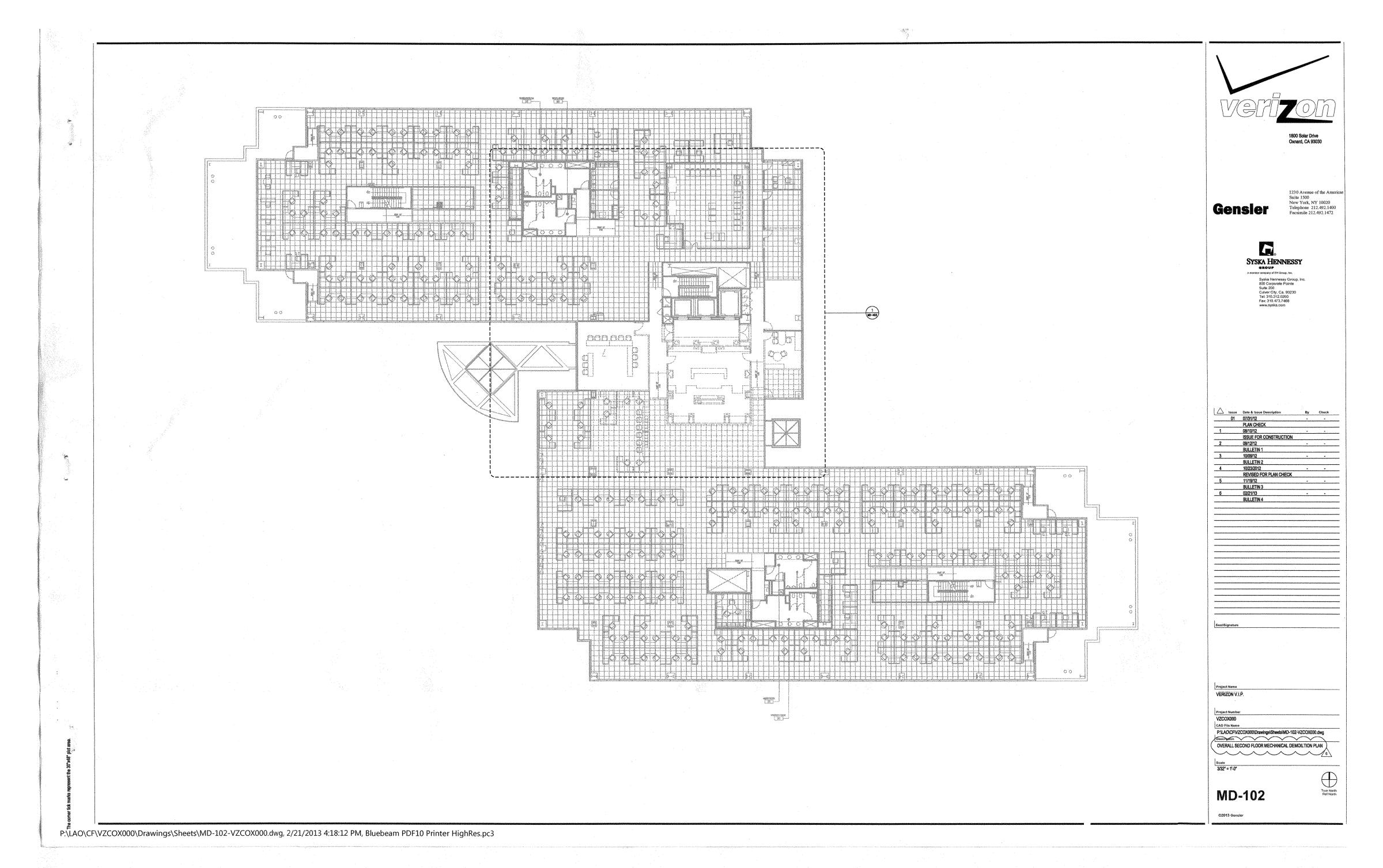
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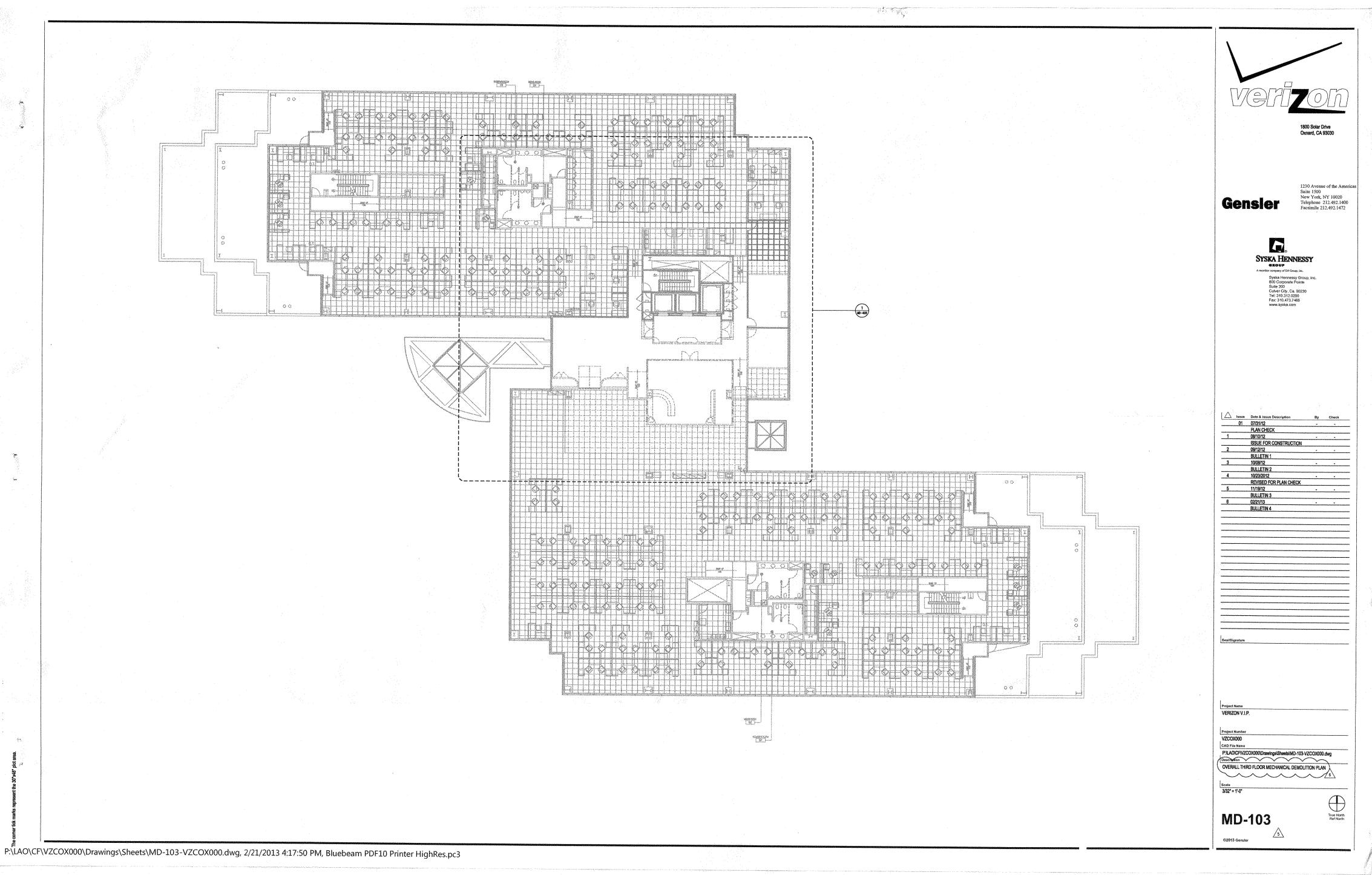
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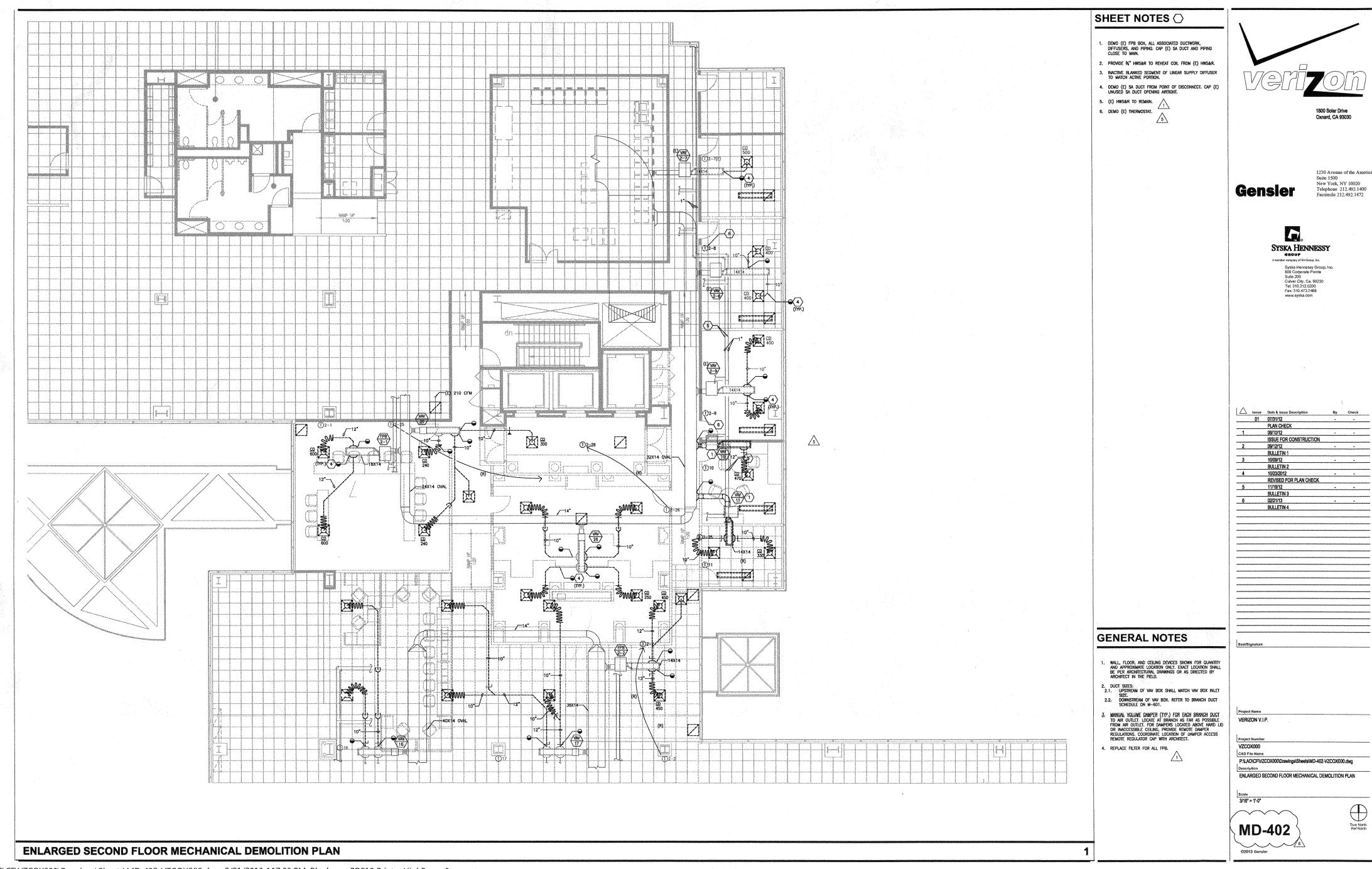
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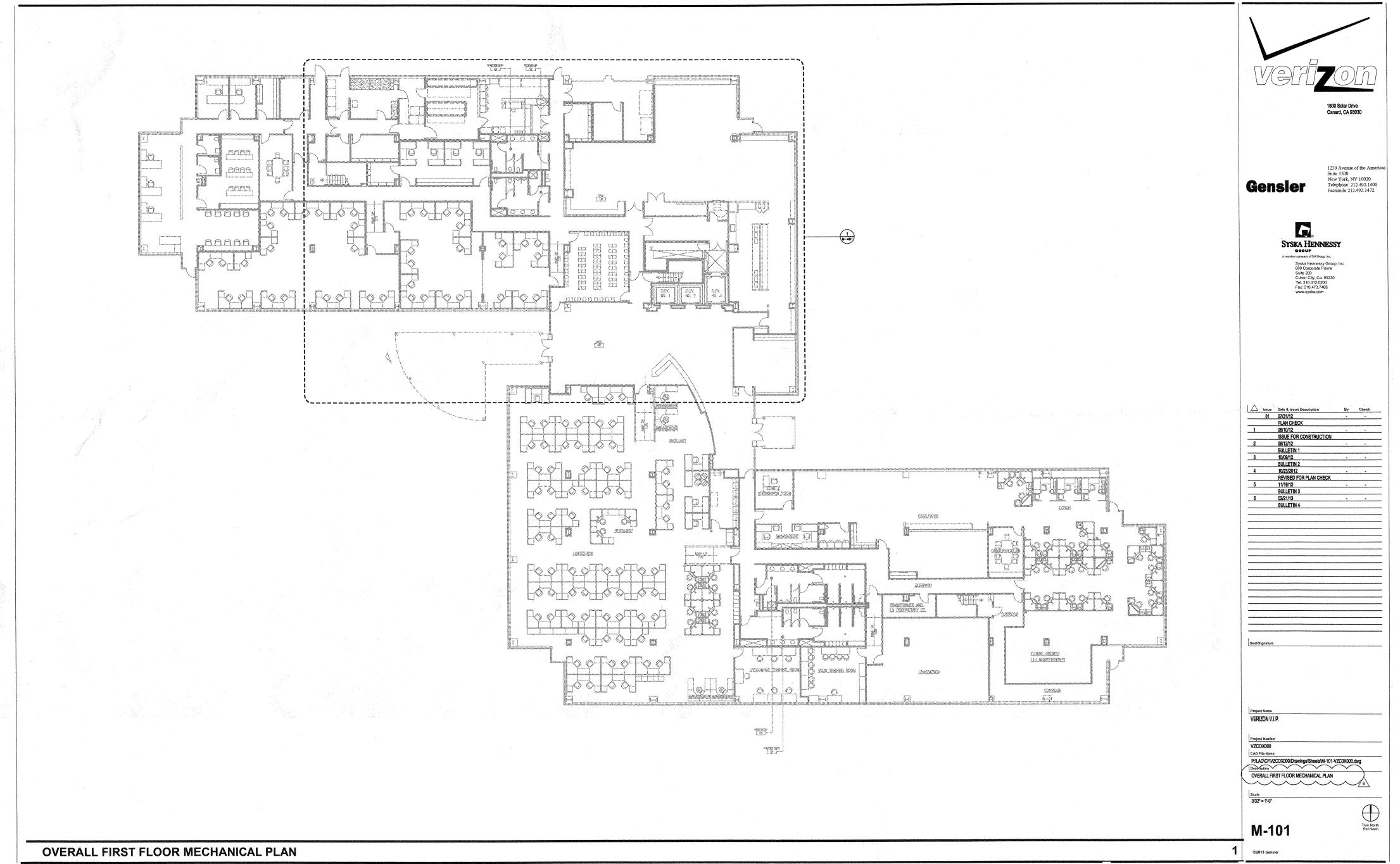
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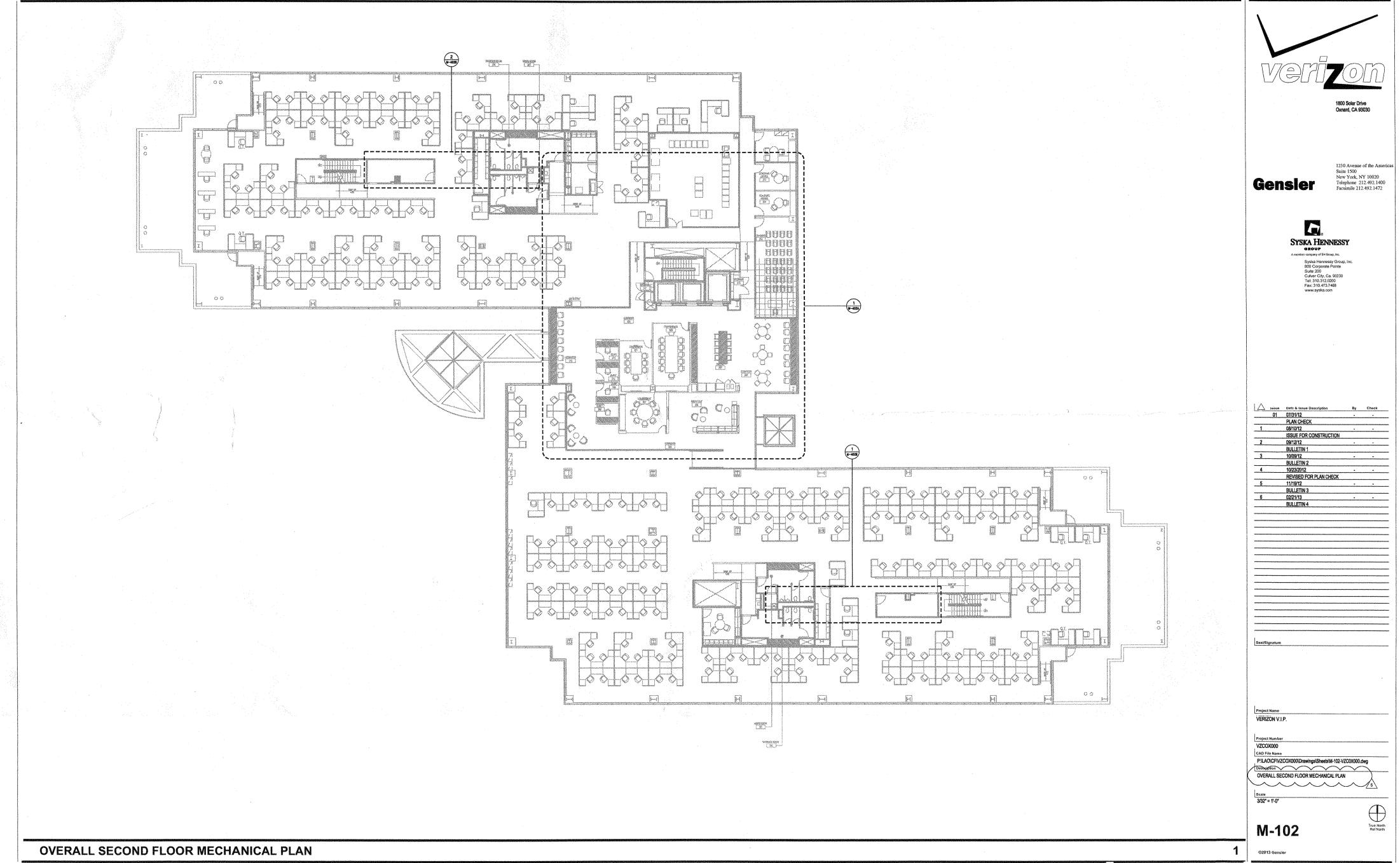




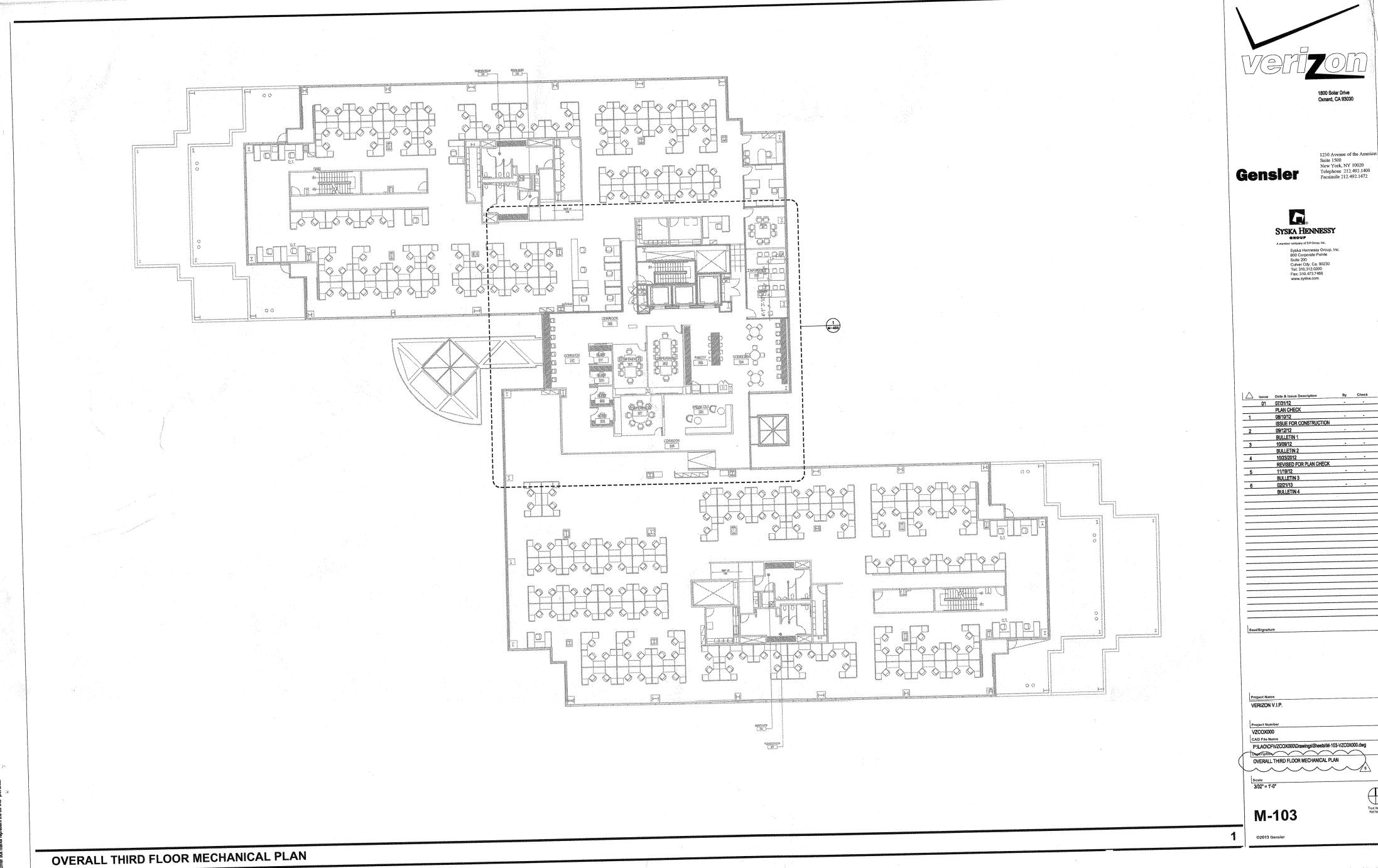
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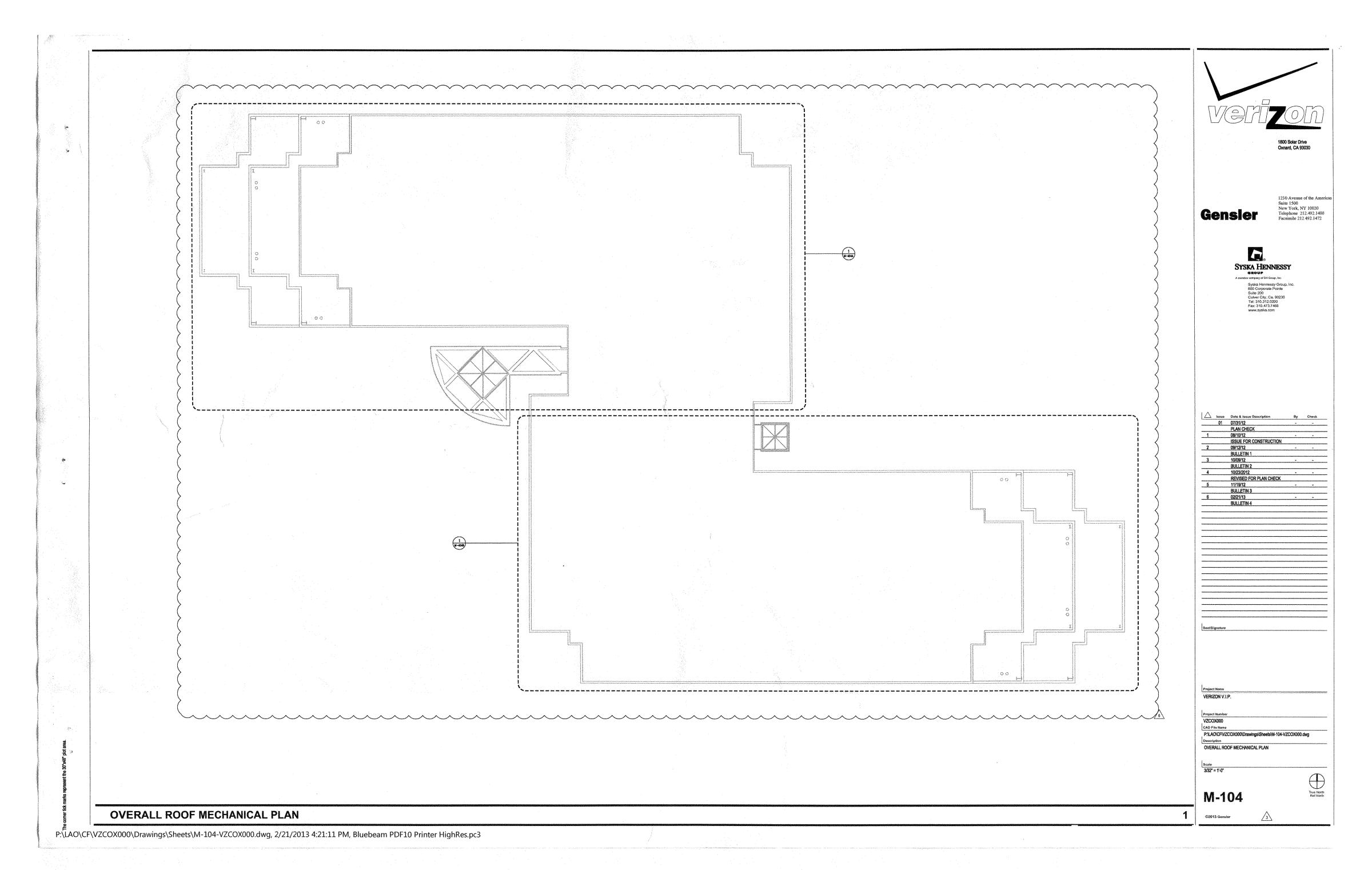


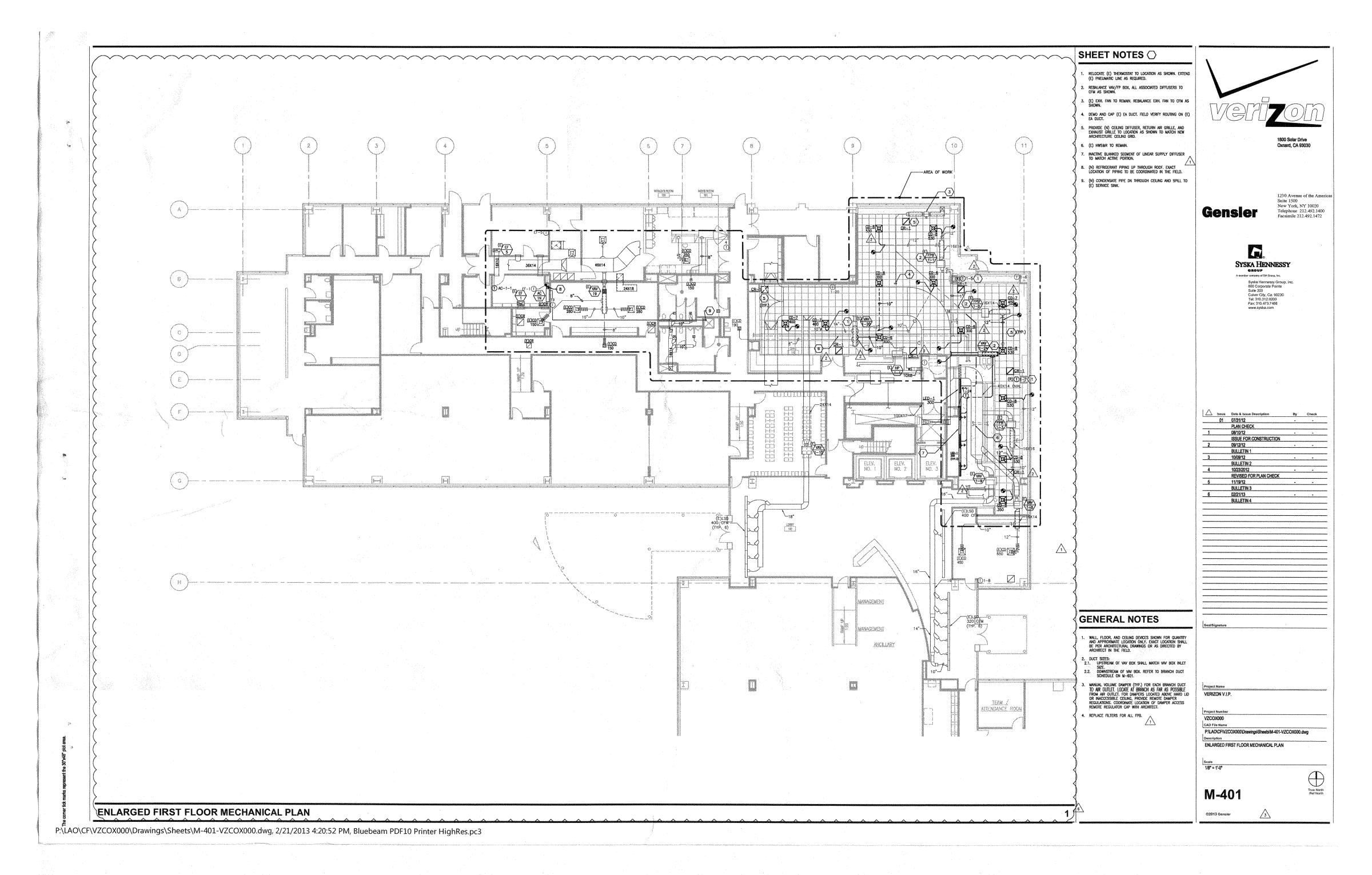
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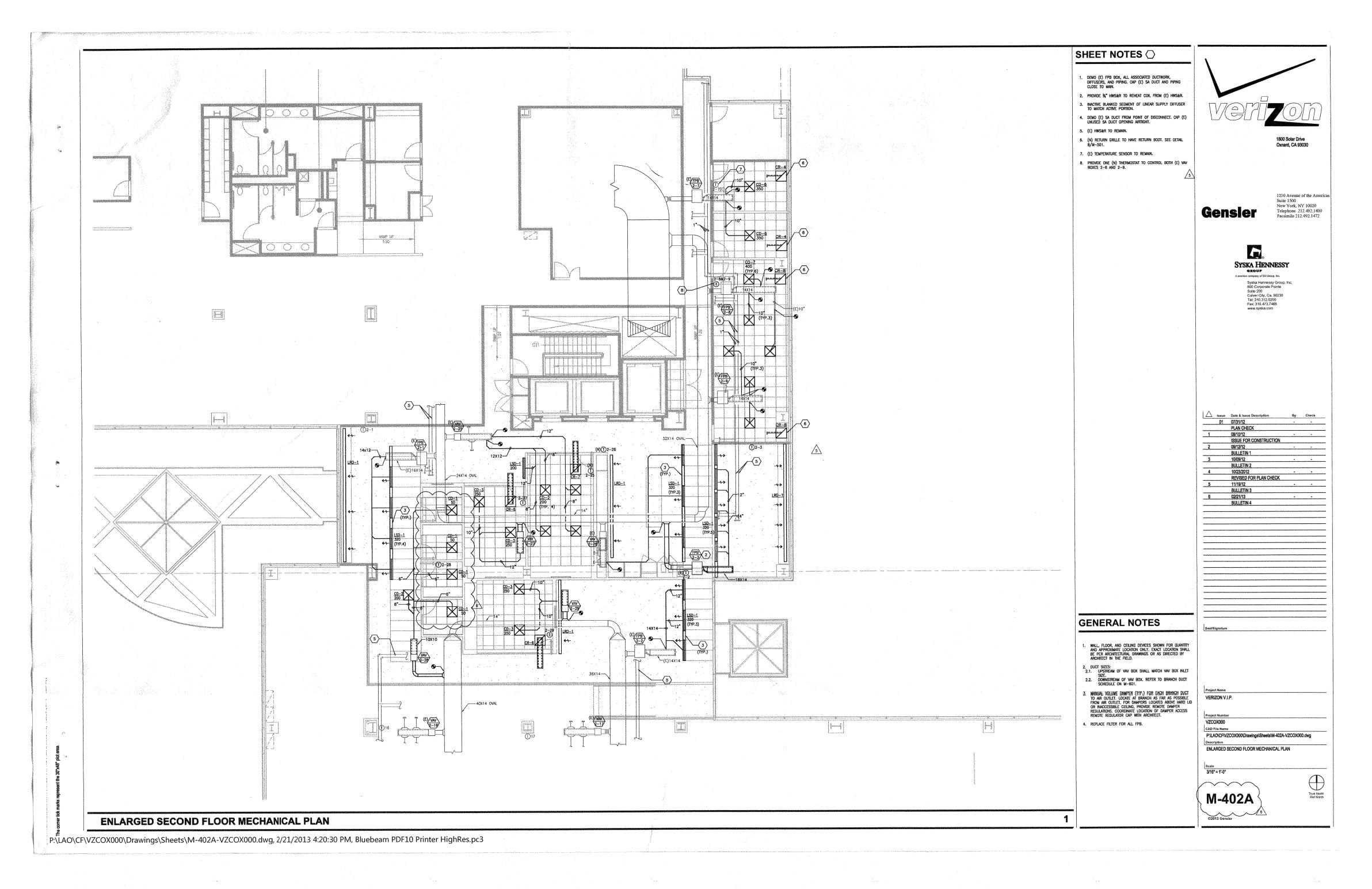


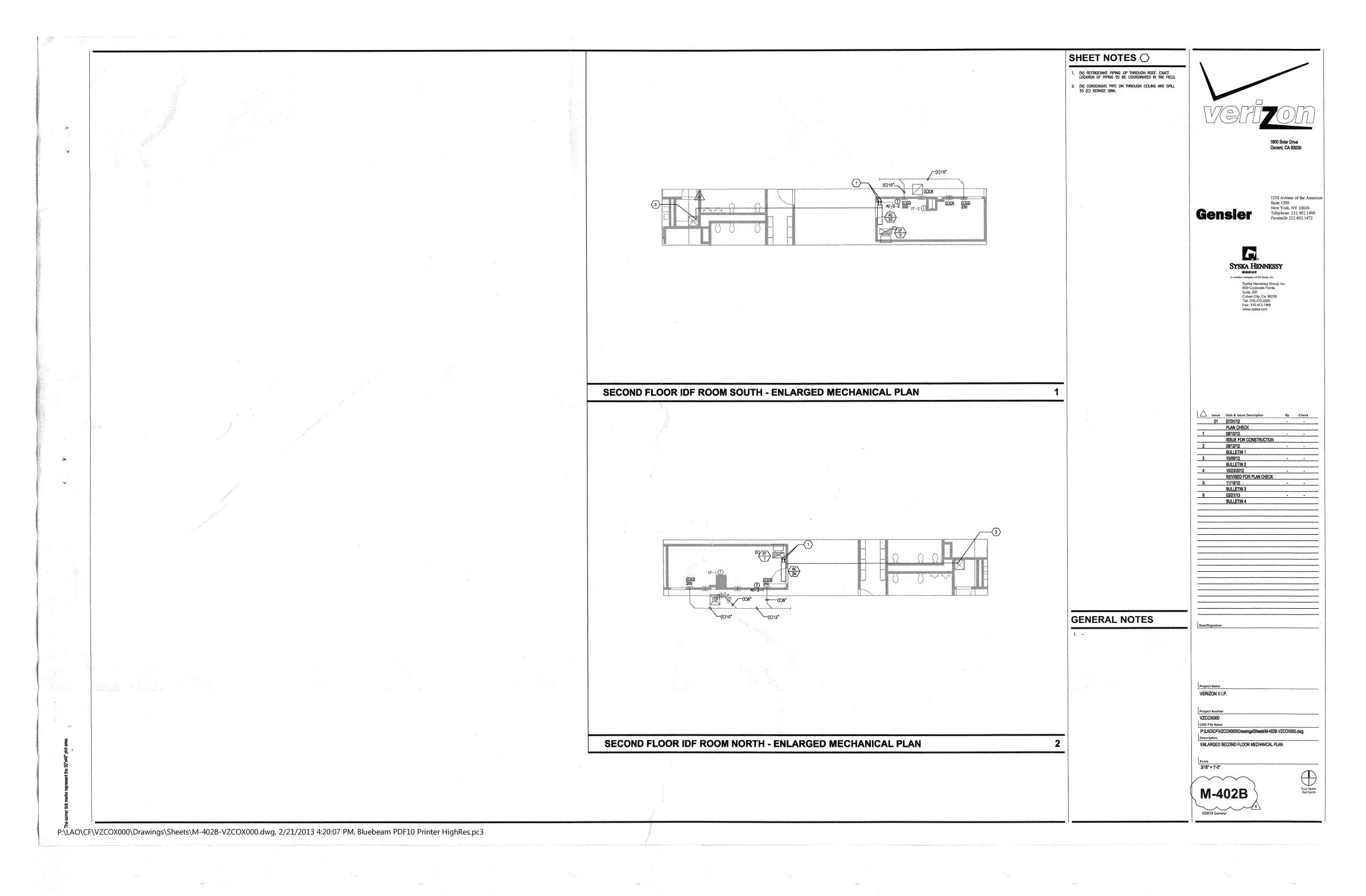
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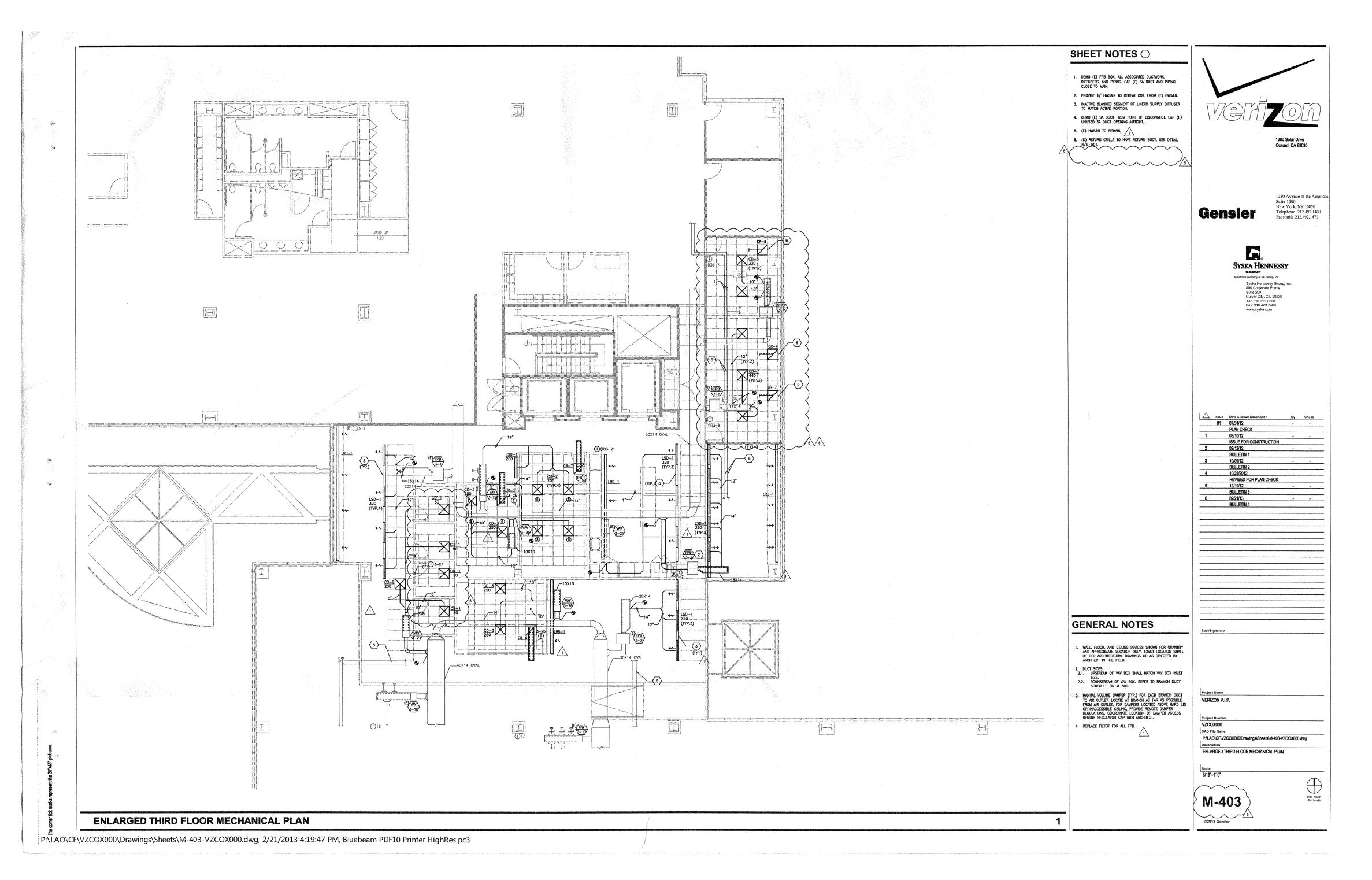
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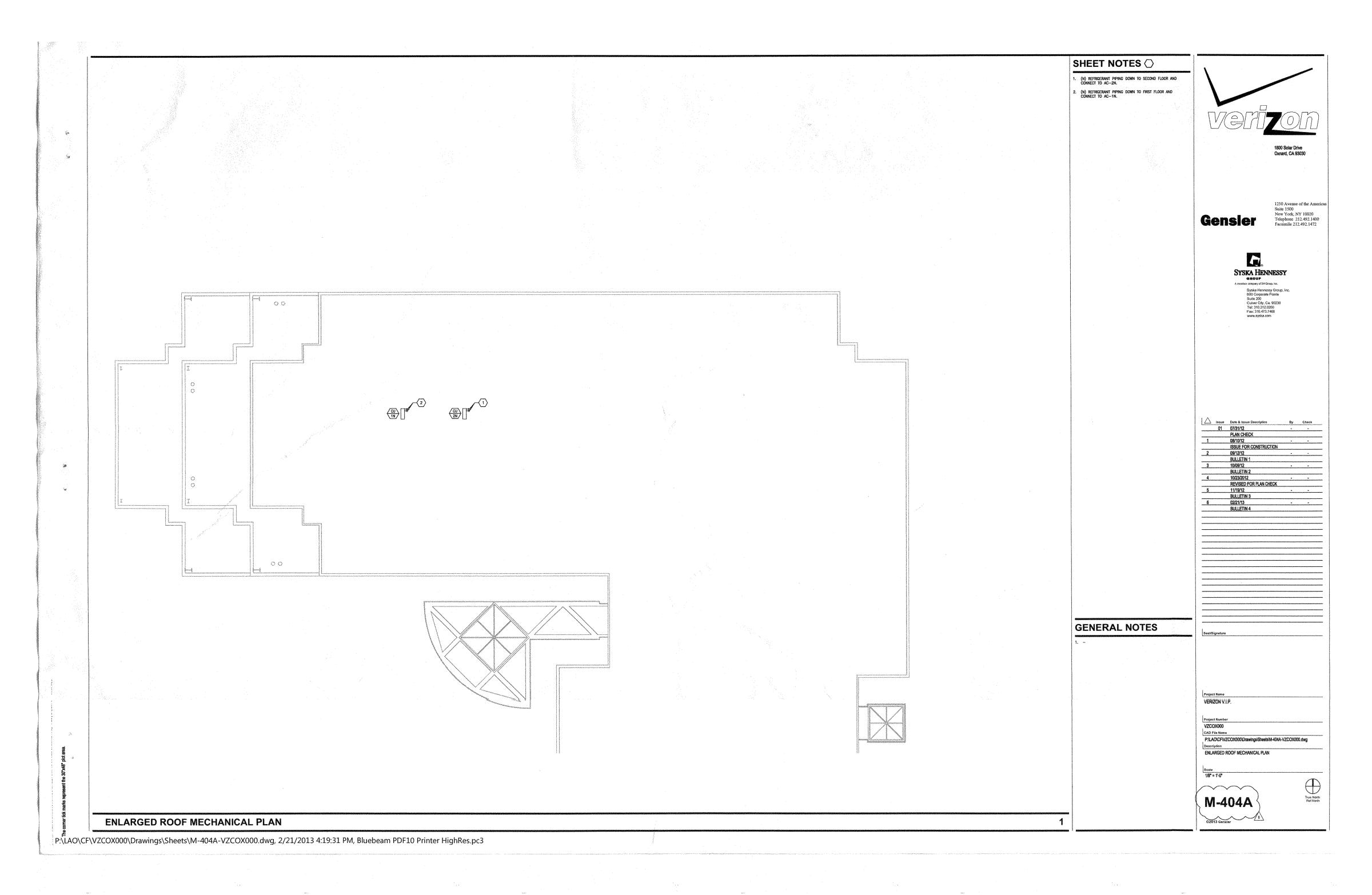


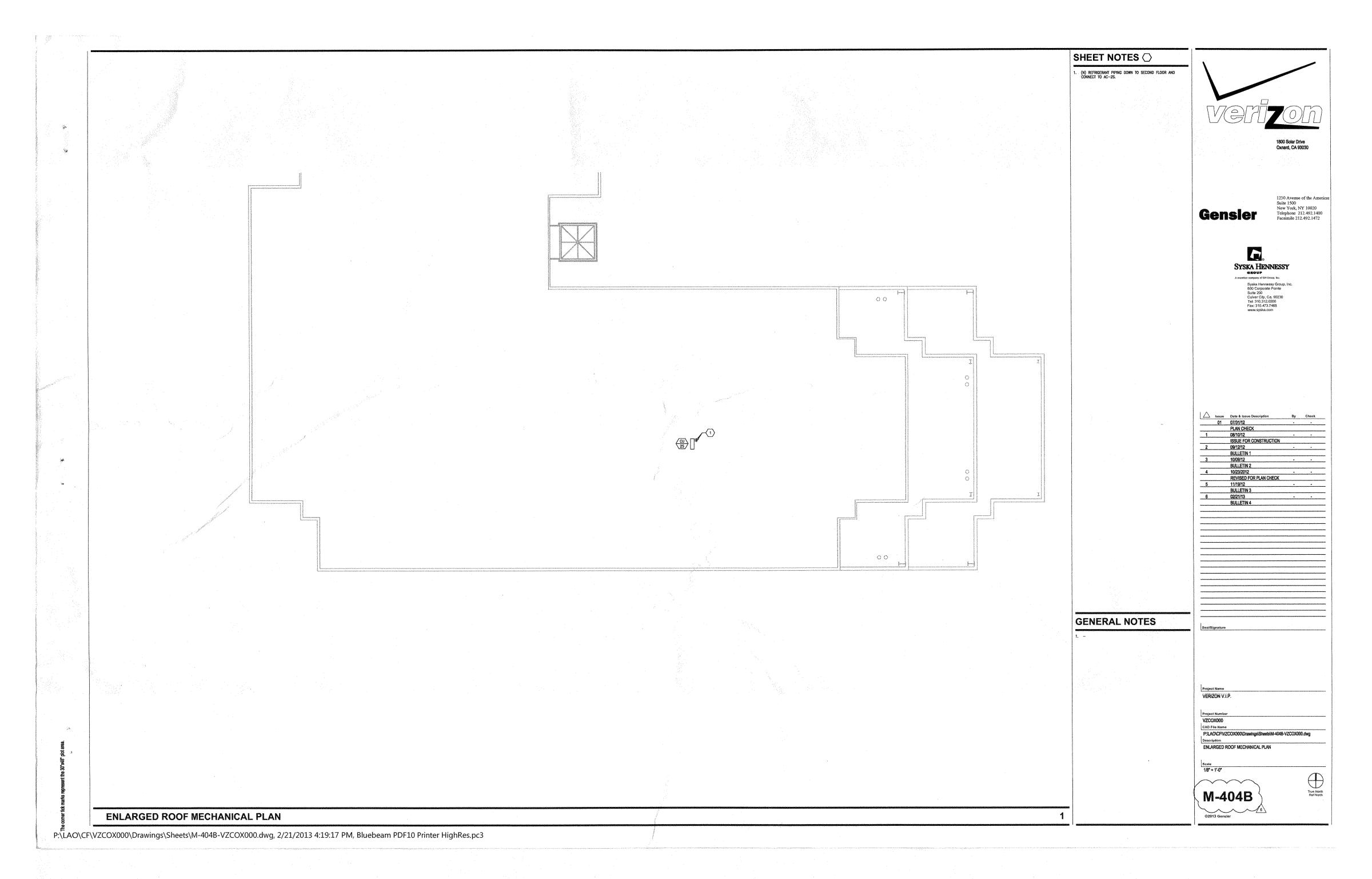


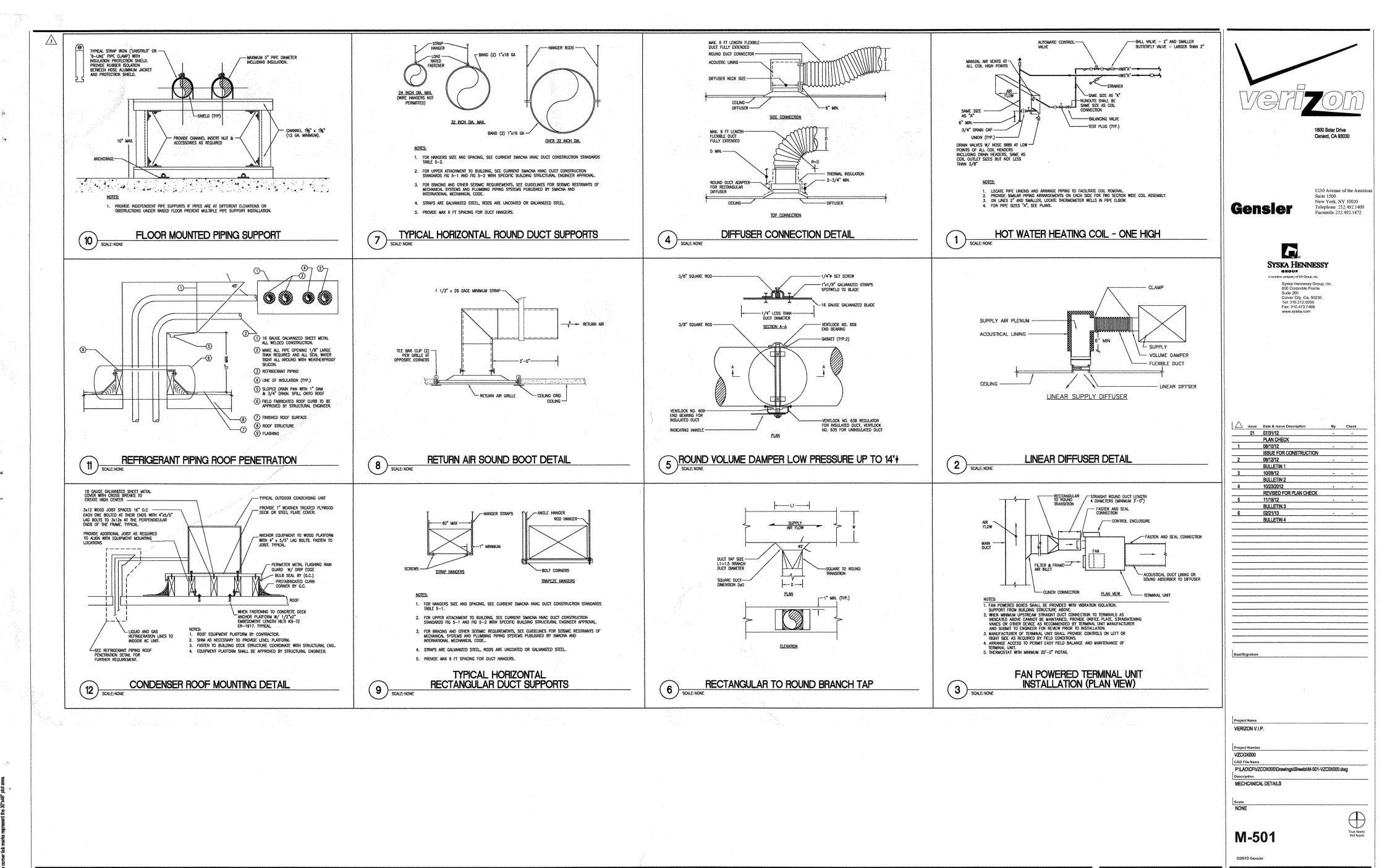




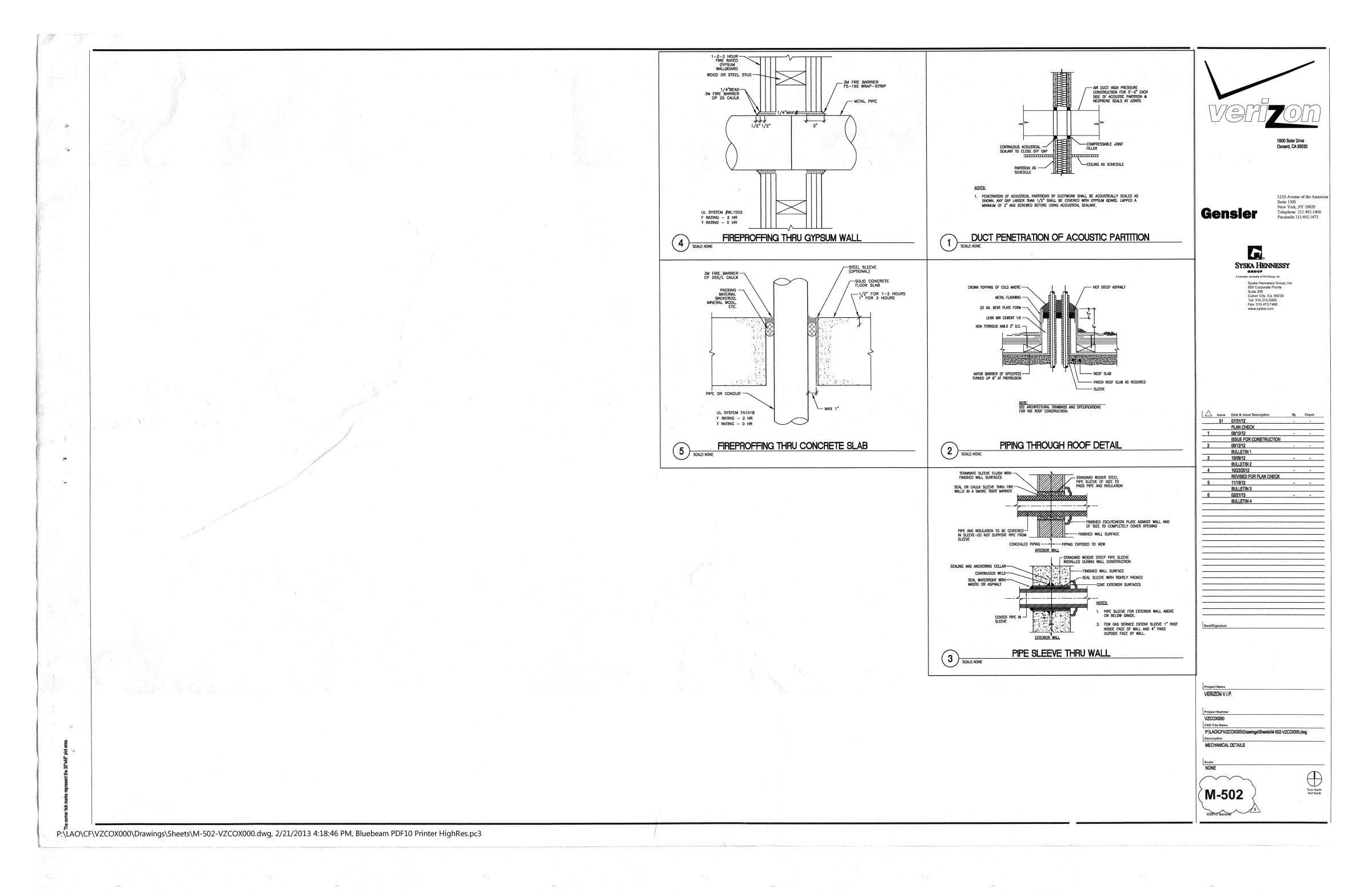


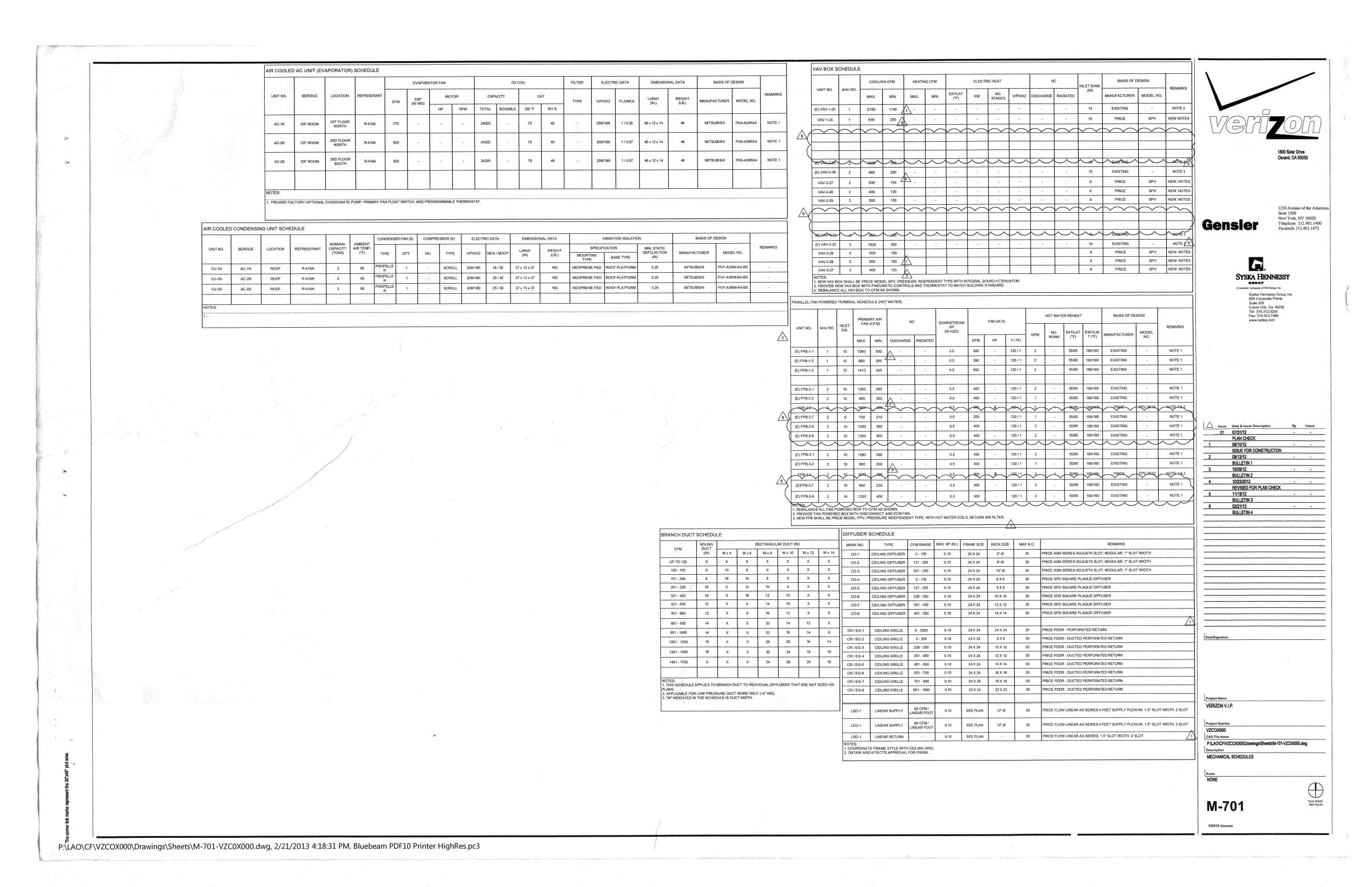


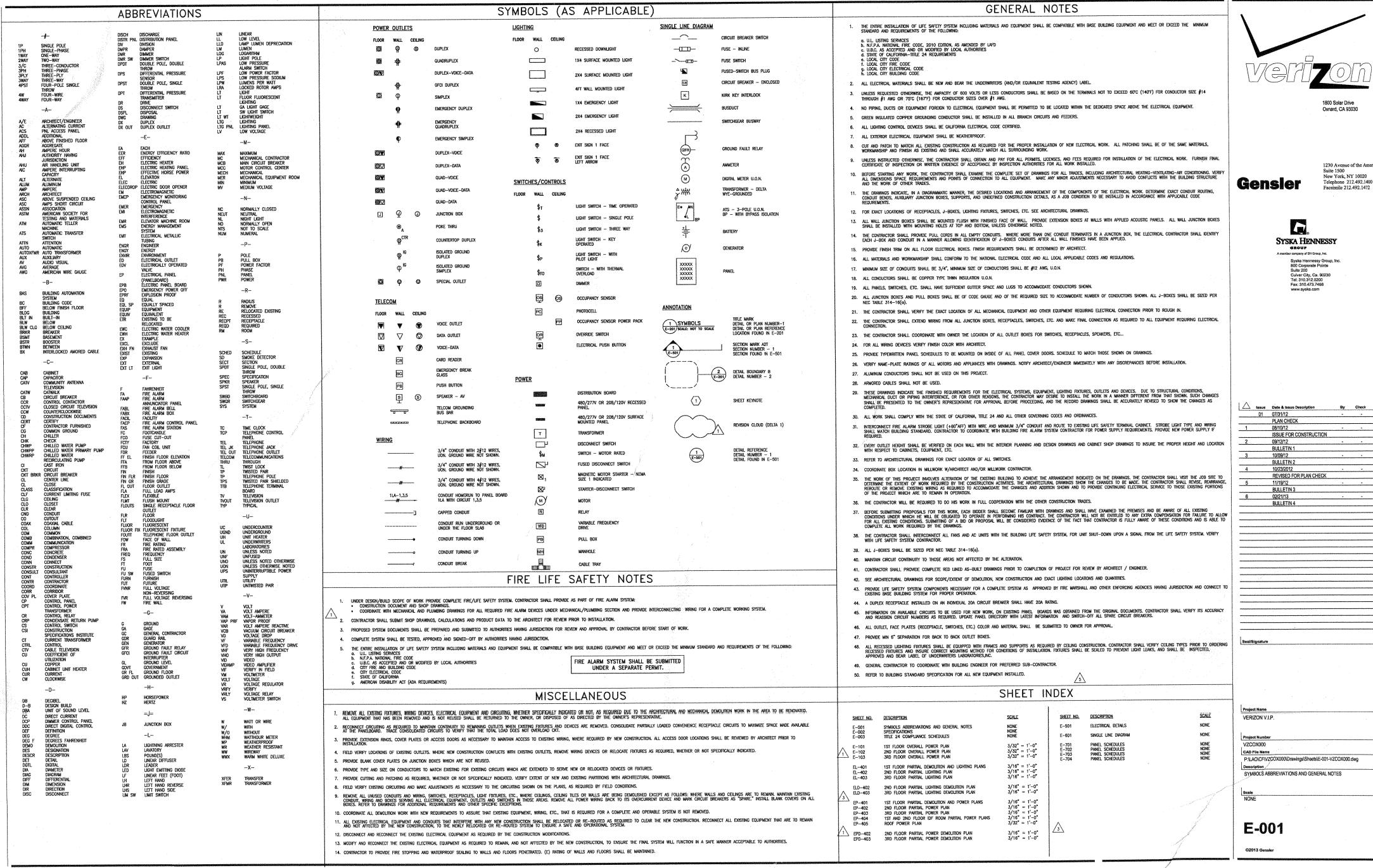




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Oxnard, CA 93030

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PLAN CHECK

New York, NY 10020

Syska Hennessy

> Syska Hennessy Group, Inc 800 Corporate Pointe Suite 200 Culver City, Ca. 90230 Tel: 310.312.0200 Fax: 310.473.7468

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1.01 DESCRIPTION

A. SPECIFICATIONS ARE OF SIMPLIFIED FORM AND INCLUDE INCOMPLETE SENTENCES, WORDS OF PHRASES SUCH AS "THE CONTRACTOR SHALL," "SHALL BE, "FURNISH," "PROVIDE," "A," "AN," "THE," AND "ALL" HAVE BEEN OMITTED FOR BREVITY.

DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK, FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERREY SPACE CONDITIONS. MAINTAIN HEADROOM AND SPACE

C. DEFINITIONS:

"INSTALL":TO ERECT, MOUNT AND CONNECT COMPLETE WITH RELATED ACCESSORIES.

"SUPPLY": TO PURCHASE, PROCURE, ACQUIRE AND DELIVER COMPLETE WITH RELATED ACCESSORIES.

"WORK": LABOR, MATERIALS, EQUIPMENT, APPARATUS, CONTROLS, ACCESSORIES AND OTHER ITEMS REQUIRED FOR PROPER AND COMPLETE INSTALLATION.

5. "WIRING": RACEWAY, FITTINGS, WIRE, BOXES AND RELATED

"CONCEALED": EMBEDDED IN MASONRY OR OTHER CONSTRUCTION, INSTALLED IN FURRED SPACES, WITHIN DOUBLE PARTITIONS OR HUNG CELLINGS, IN TRENCHES, IN CRAWL SPACES OR IN ENCLOSURES.

"EXPOSED": NOT INSTALLED UNDERGROUND OR "CONCEALED" AS DEFINED ABOVE.

8. "EQUAL": EQUAL IN MATERIALS, WEIGHT, SIZE, DESIGN AND EFFICIENCY OF SPECIFIED PRODUCT. D. SCOPE OF WORK: LABOR, MATERIALS, EQUIPMENT, SERVICES AND FEES NECESSARY FOR COMPLETE SAFE INSTALLATION IN CONFORMITY WITH APPLICABLE CODES AND AUTHORITES HAVING JURISDICTION; AS INDICATED ON DRAWINGS AND HEREIN SPECIFIED.

E. THE CONTRACTOR SHALL SECURE ALL APPROVALS AND PAY ALL FEES FOR ALL WORK INSTALLED. CERTIFICATES SHALL BE DELIVERED TO THE OWNER BEFORE FINAL PAYMENT WILL BE MADE.

1.02 JOB CONDITIONS A. CONNECTIONS TO EXISTING WORK:

2. TEMPORARY SHUTDOWNS OF EXISTING SERVICES: a. AT NO ADDITIONAL CHARGES. b. AT TIMES NOT TO INTERFERE WITH NORMAL OPERATION

c. ONLY WITH WRITTEN CONSENT OF UNIVERSITY.

3. ALARM AND EMERGENCY SYSTEMS: NOT TO BE INTERRUPTED.

CONNECT NEW WORK TO EXISTING WORK IN NEAT AND ACCEPTABLE MANNER. RESTORE EXISTING DISTURBED WORK TO ORIGINAL WORKING CONDITION INCLIDING MAINTENANCE OF WIRING CONTINUITY AS REQUIRED.

B. DEMOLITION:

1. REMOVE ALL UNUSED CONDUITS AND WIRING, SWITCHES, RECEPTACLES, LIGHT FIXTURES, ETC., WHERE CEILINGS, CEILING TILES OR WALLS ARE BEING DEMOLSHED EXCEPT AS FOLLOWS: WHERE WALLS AND CEILINGS ARE REMAIN. MAINTAIN EXISTING CONDUIT, WIRING AND BOXES SERVING ALL ELECTRICAL EQUIPMENT, OUTLETS AND SWITCHES IN THOSE AREAS, REMOVE ALL POWER WIRING BACK TO ITS OVERCURRENT DEVICE AND MARK CIRCUIT BREAKERS AS "SCHARE", MISSTALL PLANK COVINCES ON ALL BOYCES CREAT. "SPARE", INSTALL BLANK COVERS ON ALL BOXES, REFER TO DRAWINGS FOR ADDITIONAL REQUIREMENTS AND OTHER SPECIFIC OPERABLE SYSTEM IS NOT REMOVED.

COORDINATE ALL DEMOLITION WORK WITH NEW REQUIREMENTS TO ASSURE THAT EXISTING EQUIPMENT, WIRING, ETC., THAT IS REQUIRED FOR A COMPLETE INSTALLATION IS TO REMAIN.

3. ALL EXISTING ELECTRICAL EQUIPMENT AND CONDUITS THAT INTERFERE WITH ANY NEW CONSTRUCTION SHALL BE RELOCATED OR RE-ROUTED AS REQUIRED TO CLEAR THE NEW CONSTRUCTION. RECONNECT ALL EXISTING EQUIPMENT THAT ARE TO REMAIN AND NOT AFFECTED BY THE NEW CONSTRUCTION, TO THE NEWLY RELOCATED OR RE-ROUTED SYSTEM TO ENSURE A SAFE AND OPERATIONAL SYSTEMENSURE THE FINAL SYSTEM WILL FUNCTION IN A SAFE MANNER ACCEPTABLE TO AUTHORITIES.

ALL REMOVED MATERIAL AND EQUIPMENT WHICH ARE SALVAGEABLE SHALL REMAIN THE PROPERTY OF THE UNNERSITY DELIVER SUCH SALVAGE MATERIAL AND EQUIPMENT ON THE PREMISES AS DIRECTED BY THE UNNERSITY, AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGE. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIAL CONSIDERD BY THE UNIVERSITY OF SCRAP, FOR EQUIPMENT SUCH AS BALLASTS, TRANSFORMERS, ETC., CONTAINING FOR OR OTHER MATERIAL CLASSIFIED AS HAZAROOUS PROVIDE CERTIFICATE OF DESTRUCTION.

5. UNLESS OTHERWISE NOTED, REMOVE ALL ELECTRICAL EQUIPMENT THAT ARE NOT TO BE REUSED WITHIN THE RENOVATED AREA, INCLUDING BUT NOT LIMITED TO THE

LIGHTING FIXTURES b. WALL SWITCHES

c. FIRE ALARM DEVICES

d. RECEPTACLES

TELEPHONE OUTLETS DATA OUTLETS

DISCONNECT SWITCHES h. FIDS OUTLETS

REFER TO ARCHITECTURAL DRAWINGS AND NOTES FOR ADDITIONAL REQUIREMENTS FOR THE DEMOLITION WORK WITHIN THIS AREA.

1.03 QUALITY ASSURANCE

A. QUALITY AND GAUGES OF MATERIALS:

INC., OR BEARING THEIR LABEL. MATERIALS AND EQUIPMENT OF SIMILAR APPLICATION: SAME MANUFACTURE, EXCEPT AS NOTED.

DEFECTS AND LISTED BY UNDERWRITERS LABORATORIES,

480Y/277 VOLTS, 60 HERTZ WITH GROUNDED

b. 208Y/120 VOLTS, 60 HERTZ WITH GROUNDED NEUTRAL.

C. HEIGHTS OF OUTLETS:

FROM FINISHED FLOOR TO CENTERLINE OF OUTLETS FOR:
 RECEPTACLES AND TELEPHONES.

GENERALLY: 1 FT.- 3 IN. WALL SWITCHES: 3 FT.- 6 IN.

c. MOTOR CONTROLLERS: 5 FT.- 0 IN.

2. EXCEPTIONS:

a. AT JUNCTION OF DIFFERENT WALL FINISH MATERIALS. b. ON MOLDING OR BREAK IN WALL SURFACE. IN VIOLATION OF CODE.

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

MOVING OF EQUIPMENT: WHERE NECESSARY, SHIP IN CRATED SECTIONS OF SIZE TO PERMIT PASSING THROUGH AVAILABLE SPACES.

1. FOR OPERATION, MAINTENANCE AND REPAIR. 2. MINOR DEVIATIONS: PERMISSIBLE.

GROUP CONCEALED ELECTRICAL EQUIPMENT REQUIRING ACCESS WITH EQUIPMENT FREELY ACCESSIBLE THROUGH ACCESS DOORS.

A. SUBMIT SHOP DRAWINGS AND PRODUCT DATA IN ACCORDANCE WITH GENERAL REQUIREMENTS SPECIFIED IN ARCHITECTURAL SPECIFICATIONS, SUBMITIALS, OR PROVIDE SIX (8) COPIES OF SUBMITIAL SUBMITIALS OF PROVIDE SIX (9) COPIES OF SUBMITIAL MATERIAL WITH DESCRIPTIVE DATA FOR ALL PRODUCTS AND MATERIALS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING, PRIOR TO INSTALLATION, ALL SUBMITIALS SHALL BE HIGHLIGHTED TO INDICATE SPECIFIC PRODUCTS OR MATERIALS BEING USED.

B. SHOP DRAWINGS: SUBMIT PRIOR TO INSTALLATION.

1 F-MON METER AND ASSOCIATED COMPONENTS.

2. TRANSFORMER, UPS, AND PDU. 3. PANELBOARDS: DIMENSIONS, SCHEDULES AND CATALOG CUTS.

4. WALL SWITCHES

5. RECEPTACLES. 6. DEVICE PLATES

POKE—THROUGHS.

b. RECOMMENDED APPLICATION AND INSTALLATION METHODS, INCLUDING AREA COVERAGE FOR SMOKE DETECTORS.

c. INFORMATION AND DATA, SUCH AS DRAWINGS SHOWING DEVICE LOCATIONS AND TYPES, RISER DIAGRAMS, WIRING DIAGRAMS, APPROVALS, TEST DATA, ETC. REQUIRED BY LOCAL AUTHORITIES.

d. COMPLETE SHOP DRAWINGS OF ALL CUSTOM-FABRICATED OR ASSEMBLED PRODUCTS INCLUDING WIRING DIAGRAMS.

DRAWINGS IDENTIFYING ALL TERMINALS AND ILLUSTRATING ALL DEVICE WIRING CONNECTIONS.

A. PROVIDE FOUR (4) COPIES OF OPERATING AND MAINTENANCE MANUAL FOR UNIFERSITY'S USE FOR EACH PIECE OF EQUIPMENT EACH ITEM SHALL BE CROSS—REFERENCED AND NUMBERED WITH AS—BUILT DRAWING DESCRIPTIONS.

B. AS-BUILT DRAWINGS: DELIVER TO UNIVERSITY, ONE SET OF AS-BUILTS AND TWO BOUND SET OF RED-LINED AND PANEL SCHEDULES SHOWING WORK AS ACTUALLY INSTALLED AND AUTOCAD 2004 AS-BUILT DRAWINGS TO THE ENGINEER.

PRODUCTS

2.01 GENERAL

A. NAMEPLATES:

FASTENED WITH EPOXY CEMENT, ENGRAVED BLACK LAMICOID
 SHEET WITH 3/B IN. WHITE LETTERING FOR UTILITY POWER.
 RED WITH WHITE LETTERS FOR EMERGENCY COUPMENT, BLUE
 WITH WHITE LETTERING FOR UPS, OR BUILDING STANDARD.

INSPECTION: SUBJECT TO REVIEW, INDICATING EQUIPMENT, AMPERAGE, VOLTAGE AND SOURCE.

PROVIDE FOR:
 DISCONNECT SWITCHES.

b. CIRCUIT BREAKERS.

CABINETS. MOTOR CONTROLLERS.

B. SUPPORTS:

SUPPORTS FROM BUILDING CONSTRUCTION: BEAM CLAMPS, STEEL FISHPLATES (IN CONCRETE FILL ONLY) OR CANTILEVER

GROUPED LINES AND SERVICES: TRAPEZE HANGERS OF BOLTED ANGLES OR CHANNELS. WHERE BUILDING CONSTRUCTION IS INADEQUATE: PROVIDE

A. RACEWAYS:

ELECTRICAL METALLIC TUBING (EMT): THIN WALL PIPE, GALVANIZED, THREADLESS.

2. RIGID STEEL CONDUIT: FULL WEIGHT PIPE, GALVANIZED,

B. FITTINGS AND ACCESSORIES:

RACEWAY FITTINGS:

a. ELECTRICAL METALLIC TUBING: COMPRESSION

GALVANIZED RIGID STEEL ELBOWS., 2 IN. OR LARGER. b. FLEXIBLE METALLIC CONDUIT: ANGLE WEDGE TYPE WITH INSULATED THROAT.

c. BUSHINGS: METALLIC INSULATED TYPE.

OUTLET BOXES: EXCEPT AS OTHERWISE REQUIRED BY CONSTRUCTION, DEVICES OR WIRING.

O. STAMPED OR WELDED STEEL, 4 IN. SQUARE OR

OCTAGON FOR: c.g. Lighting fixtures: 1-1/2 in. Deep above ceiling, 2-1/8 in. Deep in wall.

d.b. In wall for telephone and data: 2-1/8 in.

a.b. In wall for telephone and data: 2-1/8 in.
DEEP.

a.c. with raised covers and fixture studs
where required.

a.d. throught-the-wall type, not permitted.

a.e. without fixture or device: blank cover.
Galvanized cast iron or aluminum with threaded

HUBS: 4 INCH ROUND, 2 INCH DEEP ON CEILING, AND 4 INCH SQUARE, 2 INCH DEEP ON WALL BOXES WITHOUT FIXTURE OR DEVICE: PROVIDE WITH

BLANK COVER. 2. JUNCTION AND PULL BOXES: a. GALVANIZED SHEET STEEL.

COVERS: SCREW-ON, EXCEPT AS NOTED.

WITH INSULATED SUPPORTS FOR CABLES. LOCATION: AS NOTED OR REQUIRED AND ACCESSIBLE.

e. PROVIDE BARRIERS BETWEEN: e.a. 480Y/277 VOLT WIRING ENERGIZED FROM SEPARATE SERVICES.
e.b. 208Y/120 VOLT AND 480Y/277 VOLT WIRING. PROVIDE BARRIERS IN EXISTING BOXES BETWEEN:

f.g. 480/277 VOLT WIRING ENERGIZED FROM SEPARATE SERVICES. 208/120 VOLT AND 480Y/277 VOLT WIRING. EMERGENCY AND NORMAL WIRING.

D. WIRE AND CABLE:

CONDUCTORS:

a. ASTM STANDARD SOLID NO. 14 AND SMALLER,

STRANDED NO. 12 AND LARGER.

0.0. 17 YPE: COPPER.
0.0.0. GENERAL USE:
0.0.0.b. AT 120 VOLTS AND OVER 100 FT.
CIRCUIT LENGTH: NO. 10 MINIMUM.
AT 127 VOLTS AND OVER 200 FT.
CIRCUIT LENGTH: NO. 10 MINIMUM.
AT 127 VOLTS AND OVER 200 FT.
CIRCUIT LENGTH: NO. 10 MINIMUM.
AT 120 VOLTS AND OVER 200 FT.
CIRCUIT LENGTH: NO. 12 MINIMUM.
OTHER VOLTAGES AND PHASES: AS REQUIRED TO MINIMAN VOLTAGE DROP.
NICREASE RACEWAY SIZES FOR LARGER WIRE
AS REQUIRED.

INSULATION:
 THWN/THHN: FEEDERS AND BRANCH CIRCUITS EXCEPT

AS NOTED. b. SFF-2: BRANCH CIRCUITS LOCATED IN:

b.a. Wiring Channels of Continuous Fluorescent Fixtures. b.b. Ambient Temperatures over 75 deg. C. Color Coding: As per Code. Where Color Coding IS UNAVAILABLE, CERTIFY IN WRITING AND REQUEST PERMISSION TO OVERLAP COLOR TAPING CONDUCTORS (MINIMUM LENGTH 6 IN.) IN ACCESSIBLE LOCATIONS. d. 600 V INSULATION, INCLUDING CONTROL WIRING.

AGS:

a.g. FEEDERS: RIDICATE FEEDER NUMBER, SIZE, LOCATIONS.

a.b. FEEDERS: RIDICATE FEEDER NUMBER, SIZE, PHASE AND POINTS OF ORIGIN AND TERMINATIONS.

a.c. CONTROL AND ALARM WIRING: INDICATE TYPE (CONTROL OR ALARM), SIZE OF WIRE, AND POINTS OR ORIGIN AND TERMINATIONS.

b. TERMINATIONS, SPUCES AND TAPS UNDER 600 VOLTS:

b.g. COPPER CONDUCTORS NO. 10 AND SMALLER:

WITH COMPRESSION—TYPE OF TWIST—ON SPRING—LOADED CONNECTIORS AND CLEAR NYLON—INSULATED COVERING.

b.b. COPPER CONDUCTIORS NO. 8 AND LARGER: MECHANICAL BOLTED PRESSURE OR HYDRAULIC COMPRESSION TYPE USING MANUFACTURER'S RECOMMENDED TOOLING.

b.c. CABLE LUGS AND CONNECTORS: COMPRESSION TYPE OF SAME METAL AS CONDUCTOR. PROVIDE TO MATCH CABLE, WITH MARKING INDICATING SIZE AND TYPE.

b.d. COPPER LUG CONNECTIONS TO BUS BARS: USE ANTI SEIZE COMPOUND ON TANG.

LOCAL WALL SWITCHES:
 O. NON-MODULAR LIGHTING SYSTEM:

a.a. Heavy Duty, Toggle, Quiet Type.
a.b. 204, 120/277V, AC.
a.c. Leviton Decora 5821W or equal Toggle
Type. Or Building Standard.
a.d. Collor: By Architect.
a.e. Faceplate: Building Standard Specifications

GRADE.

G.F. TO MATCH BUILDING STANDARDS
MODULAR LIGHTING SYSTEM:

b.a. HEAVY DUTY, TOGGLE, QUIET TYPE. b.b. 20A, 120/277V, AC.
b.c. COLOR: BY ARCHITECT,
b.d. FACEPLATE: BUILDING STANDARD SPECIFICATIONS
GRADE.
b.e. TO MATCH BUILDING STANDARD.

STANDARDS, PUBLICATION WD-1-1971.

b. EQUAL TO HUBBELL NOS. INDICATED OR BUILDING STANDARD. c. DUPLEX CONVENIENCE

c.o. FOR MULTI-OUTLET CIRCUITS, 125 VOLTS, 2
POLE, 3 WIRE, GROUNDED, 20 AMP, EQUAL TO
NO. 5352.
c.b. FOR SEPARATE CIRCUITS, 125 VOLTS, 2 POLE, 3
WIRE, GROUNDED, 20 AMP, EQUAL TO NO. 5352.
d. SPECML USE: NON-INTERCHANGEABLE TYPES AND

TO MATCH BUILDING STANDARDS. DEVICE FACEPLATES:
 BUILDING STANDARD SPECIFICATION GRADE

ALL LIGHTING FIXTURES THAT ARE EXISTING SHALL BE CLEANED AND RELAMPED. 2. REPLACE BALLAST AS REQUIRED.

 RELOCATE LIGHTING FIXTURES AS REQUIRED, VERIFY CEILING CONSTRUCTION. ANY NEW LIGHTING FIXTURES SHALL BE BUILDING STANDARD OR AS DIRECTED BY ARCHITECT. VERIFY CEILING CONSTRUCTION.

H. FIRE ALARM SYSTEM:

b. FLASHING STROBE.

PROVIDE FIRE ALARM SYSTEM DEVICES AND COMPONENTS
NECESSARY FOR A COMPLETE SYSTEM AND CONNECT TO
EXISTING BASE BUILDING SYSTEM. THE WORK SHALL INCLUDE,
BUT NOT LIMITED TO THE FOLLOWING:
0. EMERGENCY SIGNALING AND PAGING SPEAKERS.

CONDUIT, WIRING, OUTLETS, WIRES, ETC. REQUIRED TO COMPONENTS LISTED ABOVE.

 THE ENTIRE INSTALLATION, INCLUDING MATERIALS AND EQUIPMENT SHALL BE COMPATIBLE WITH EXISTING BUILDING EQUIPMENT AND MEET OR EXCEED THE MINIMUM STANDARDS AND REQUIREMENTS OF THE FOLLOWING:
 UNDERWRITERS LABORATORIES, INC. LISTING SERVICE. b. NFPA NATIONAL FIRE CODES. UNIFORM BUILDING CODE AS ACCEPTED AND/OR

MODIFIED BY LOCAL AUTHORITIES. d. LOCAL CITY FIRE BUILDING CODE. e. LOCAL CITY ELECTRICAL CODE.

3. ALL EQUIPMENT AND MATERIALS USED SHALL BE STANDARD COMPONENTS, REGULARLY MANUFACTURED AND OF THE SAME MANUFACTURER, AS THE EXISTING BASE BUILDING STANDARDS. 4. SYSTEM SUPERVISION: PER BUILDING STANDARDS. 5. EMERGENCY SIGNALING: PER BUILDING STANDARDS.

PART 3 EXECUTION A. GENERAL:

> 1. PAINTING: a. PAINT: BEST GRADE FOR ITS PURPOSE.
> DELIVER IN ORIGINAL SEALED CONTAINERS.
> APPLY IN ACCORDANCE WITH MANUFACTURER'S INSTITUTIONS.

OLORS: AS SELECTED BY ARCHITECT GALVANIZED IRON PRIMER: PANEL AND PULL BOXES, AFTER FABRICATION. c. HOT DIPPED GALVANIZED OR DIPPED IN ZINC CHROMATE: OUTLET BOXES, JUNCTION BOXES, CONDUIT

HANGERS, RODS INSERTS AND SUPPORTS. d. ZINC CHROMATE WITH FINISH TO MATCH SURROUNDINGS: MARRED SURFACES OF STEEL

CLEANING: q. BRUSH AND CLEAN WORK PRIOR TO CONCEALING,

PAINTING AND ACCEPTANCE. PAINTED EXPOSED WORK SOILED OR DAMAGED: CLEAN AND REPAIR TO MATCH ADJOINING WORK BEFORE FINAL ACCEPTANCE. REMOVE DEBRIS FROM INSIDE AND OUTSIDE OF

MATERIAL AND EQUIPMENT. 3. CUTTING AND PATCHING: AS REQUIRED FOR NEW WORK.

B. RACEWAYS. 1. RUN CONCEALED, EXCEPT AS NOTED.

2. SUPPORTS: a. CEILING TRAPEZE, STRAP HANGERS OR WALL

b. U-BOLTS: AT EACH FLOOR LEVEL OF RISER RACEWAYS AND CONNECTED TO ACCEPTABLE SUPPORTS.

c. RISER CLAMPS: AT EACH FLOOR LEVEL OR RISER RACEWAYS AND RESTING ON SLAB. d. SPACING:

SPALING:

d.a. MINIMUM 10 FT. ON CENTERS FOR METALLIC RACEWAY AND AS REQUIRED FOR NON-METALLIC RACEWAY.

d.b. 5 FT. ON CENTERS FOR WIREWAYS.
d.c. PER CODE AND AS NOTED FOR OTHERS.

MOUNT SUPPORTS TO STRUCTURE WITH: e.g. TOGGLE BOLTS ON HOLLOW MASONRY.
e.b. EXPANSION SHIELDS OR INSERTS IN CONCRETE

e.b. EXPANSION SHIELDS OR INSERTS IN CONCRETE
AND BRICK.

6.C. MACHINE SCREWS ON METAL.

6.E. MECAN CLAMPS ON FRAMEWORK.

6.E. WOOD SCREWS ON WOOD.

6.F. PAN THROUGH STRAPS IN METAL DECK.

6.P. NAILS, RAML PLUGS OR WOOD PLUGS NOT
PERMITTED.

6.H. WHERE REQUIRED BY STRUCTURE: THROUGH
BOLTS AND FISH PLATES.

EXPOSED: RUN PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.

4. CLEARANCE FROM WATER, STEAM OR OTHER PIPING: MINIMUM 3 IN. SEPARATION FROM STEAM AND HOT WATER PIPES, EXCEPT 1 IN. FROM PIPE COVER AT CROSSINGS.

 FOR HUNG CEILING OUTLETS: RUN IN HUNG CEILINGS AND CONNECT TO CEILING SUPPORT CHANNELS. 6. IN MASONRY: RUN VERTICALLY ONLY.

 MAINTAIN GROUNDING CONTINUITY OF INTERRUPTED METALLIC RACEWAYS WITH GROUND CONDUCTOR, AND IN FLEXIBLE CONDUIT FOR FEEDERS AND MOTOR TERMINAL CONNECTIONS. 8. EMPTY RACEWAYS OVER 10 FT. LONG: PROVIDE FISH OR PULL WIRE, GALVANIZED OR NYLON ROPE.

9. EMT: a. PERMITTED USES: a.d. FEEDERS AND BRANCH CIRCUITS.
 a.b. DRY LOCATIONS, DRY WALLS, HUNG CEILINGS, HOLLOW BLOCK WALLS AND FURRED SPACES.

PERMITTED USES:

a.a. FOR SHORT CONNECTIONS WHERE RIGID CONDUIT IS IMPRACTICABLE. (MAXIMUM OF 3')

a.b. FROM OUTLET BOX TO RECESSED LIGHTING FORTURE MINIMUM 4 FT., MAXIMUM 6 FT. LENGTH.

a.c. FOR FINAL CONNECTION TO MOTOR TERMINAL BOX, TRANSFORMERS AND OTHER VIBRATING EQUIPMENT: WITH POLYMINAL SHEATHING AND GROUND CONDUCTOR MINIMUM LENGTH 18 IN. WITH SLACK, CONNECT GROUND CONDUCTOR TO ENCLOSURE OR RACEWAY AT EACH END.

a.d. FOR EXPANSION JOINT CROSSINGS, CROSS AT RIGHT ANGLES AND ANCHOR ENDS.

a.e. USE ONLY IN DRY LOCATIONS, DRY WALLS, HUNG CEILINGS AND FURRED SPACES.

11. EXPANSION FITTINGS: AT RIGHT ANGLES WITH SLIP JOINT CENTERED IN EXPANSION JOINT. PROVIDE ON LENGTH OF RUNS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PRESET TO ALLOW FOR TEMPERATURE

VARIATION.
RACEWAYS PASSING THROUGH FIRE—RATED CONSTRUCTION SEAL OPENING WITH FIRE SEALANT. 13. OUTLET BOXES:
G. SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. b. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE

STRAP IRONS OR GROUT IN WITH MASONRY. VERIFY OUTLET LOCATIONS IN FINISHED SPACES WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND d. PROVIDE BARRIERS BETWEEN SWITCHES CONNECTED TO

DIFFERENT PHASES FOR VOLTAGES EXCEEDING 150 VOLTS TO GROUND.

CONSTRUCTION.

14. PANEL, JUNCTION AND PULL BOXES: a. LOCATION: a.a. CLEAR OF OTHER TRADES. a.b. CONCEAL JUNCTION AND PULL BOXES IN FINISHED SPACES. 3) ACCESSIBLE. SUPPORT: FROM BUILDING STRUCTURE, INDEPENDENT OF CONDUIT. PROVIDE FLOOR-TO-CEILING CHANNELS FOR MOUNTING ON DRY WALL AND LIGHTWEIGHT

CEILINGS: ACCESSIBLE THROUGH OPENING CREATED BY REMOVAL OF FIXTURE, SECURE TO BLACK IRON CEILING SUPPORT. d. MOTOR TERMINAL BOXES: COORDINATE WITH MOTOR BRANCH CIRCUIT CONDUIT AND WIRING. ADD BOX

c. OUTLET BOXES FOR FIXTURES RECESSED IN HUNG

e. PROVIDE NEW PANELBOARDS WITH DOUBLE NEUTRAL, GROUND AND ISOLATED GROUND BUS.

VOLUME WHERE REQUIRED.

15. FIRE SEALANTS: PROVIDE FOR RACEWAYS AND WIRE PASSING THROUGH FLOOR SLOTS, SLEEVES OR OPENINGS IN FIRE-PARTITIONED ROOMS. 16. OUTDOOR INSTALLATION: RIGID STEEL CONDUIT EXCEPT AS NOTED; BELOW GRADE, WATERPROOF.

d.a. TEST RESISTANCE OF FEEDER CONDUITS FROM SERVICE TO POINT OF FINAL DISTRIBUTION USING 1 CONDUCTOR RETURN.
 d.b. MAXIMUM: 25 OHMS RESISTANCE.

1. 600 VOLT CABLE: a. NOT MORE THAN THREE (3) LIGHTING OR CONVENIENCE OUTLET CIRCUITS IN 1 CONDUIT UNLESS OTHERWISE INDICATED. b. SEPARATE RACEWAYS FOR CONDUCTORS OF 208Y/120

AND 480Y/277 VOLT SYSTEMS, EXCEPT 480 VOLT

MOTOR BRANCH CIRCUIT WIRING AND RELATED 120

VOLT CONTROL WIRING. TESTS:
 CONTINUITY AND INSULATION TESTS:

a.a. 600 VOLTS: MEGGER. a.b. 100 PERCENT OF FEEDERS. a.c. 10 PERCENT OF BRANCH CIRCUITS. PERFORM: b.a. PRIOR TO CONNECTING EQUIPMENT.
b.b. IN PRESENCE OF AUTHORIZED REPRESENTATIVES.
SUBMIT WRITTEN REPORT OF RESULTS. d. CORRECT OR REPLACE CABLE RESTING BELOW

D. PANELBOARDS:

BALANCE THE LOAD OVER PHASES WHEN NEW CIRCUITS ARE ADDED TO NEW OR EXISTING PANELS.
 PROVIDE MULTI-CABLE LUGS WHERE REQUIRED.

3. UPDATE WITH NEW DIRECTORIES ON EXISTING PANELBOARDS WHERE CIRCUITING IS CHANGED.

PROVIDE NEW TYPEWRITTEN DIRECTORY IN NEW PANELBOARDS.

MANUFACTURER'S STANDARDS.

4. TESTS: OPEN AND CLOSE LOAD BREAK SWITCHING DEVICES UNDER LOAD.

E. LIFE SAFETY SYSTEM: INSTALLATION SHALL BE SUPERVISED AND TESTED BY THE MANUFACTURER OF THE SYSTEM EQUIPMENT. THE WORK SHALL BE PERFORMED BY SKILLED TECHNICANS UNDER THE DIRECTION OF EXPERIENCED ENGINEERS, ALL OF WHOSHALL BE PROPERLY TRAINED AND QUALIFIED FOR THIS WORK.

SYSTEM SHALL BE INSTALLED WITH ALL CONDUITS, CONDUCTORS, OUTLET BOXES, FITTINGS, CONNECTORS AND ACCESSORIES INCESSARY TO ENSURE A COMPLETE, OPERABLE SYSTEM IN COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS.

OL. CONDUIT: ALL CONDUIT AND ITS INSTALLATION SHALL BE IN ACCORDANCE WITH THIS SPECIFICATIONS. WIRE AND CABLE: ALL WIRING SHALL BE INSTALLED IN

METAL CONDUIT OR WITHIN EQUIPMENT, CONDUCTORS SHALL BE INSTALLED IN ACCORD WITH THIS SPECIFICATIONS. CONDUCTORS WITHIN EQUIPMENT ENCLOSURES SHALL BE CAREFULLY CABLED AND LACED, THEY SHALL BE COLOR-CODED AND INDIVIDUAL CONDUCTORS SHALL BE TAGGED WITH E-Z CODE MARKERS INDICATING CIRCUIT NUMBER AND TYPE. MARKERS SHALL BE USED ON ALL CONDUCTORS AT EACH OUTLET OR PULL BOX AND AT EACH EQUIPMENT FNCLOSURE.

OUTLET PULL AND JUNCTION BOXES SHALL BE INSTALLED IN ACCORD WITH THIS SPECIFICATIONS. FND-OF-LINE RESISTORS FOR SPEAKER CIRCUITS SHALL BE INSTALLED IN FLOOR TERMINAL CABINETS e. PIGTAIL AND/OR TAPPED CONNECTION WILL NOT BE ALLOWED ON SUPERVISED CIRCUIT, CONNECTIONS

CONTRACTOR IS TO ENSURE THE EXISTING FIRE ALARM CONTROL PANEL WILL ACCOMMODATE THE NEW FIRE ALARM INTIATING DEVICES, SPEAKERS AND STROBE LIGHTS. MODIFY AND ADD NEW CONTROL MODULES IN EXISTING CONTROL PANEL AS REQUIRED.

SHALL BE MADE DIRECTLY TO AND FROM DEVICE

ALL NEW AIR HANDLING EQUIPMENT SHALL BE SHUT DOWN VIA THE BUILDING FIRE ALARM PANEL UPON ACTIVATION OF ANY NEW DUCT DETECTORS DESCRIBED UNDER THIS SCOPE OF WORK.

1. PROVIDE CABLES AS INDICATED. 2. RUN CONDUIT FROM OUTLET INTO ACCESSIBLE HUNG



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01 07/31/12 PLAN CHECK 08/10/12 09/12/12 **BULLETIN 1** 10/09/12 10/23/2012 REVISED FOR PLAN CHECK BULLETIN 3. 02/21/13 Seal/Signature

VERIZON V.I.P.

VZCOX000

NONE

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E-002

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CERTIFICATE OF	COMPLIANCE			(Part 4 of 4)	LTG-1C
Project Name Verizon			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Date 2/20/2013
				BE COMBINED FOR COM	
Indoor Lighting P	ower for Conditioned Sp	aces	Indo	or Lighting Power for Uncondi	
		Watts			Watts
Installed Lighting (from Conditioned LTG-IC, Pag	ja 2j	10,44	I feedure investo	nditioned LTG-1C, Page 2)	
Lighting Control Credit Conditioned Spaces (from LTG-	20)	7,68	Uncondition	ontrol Credit red Spaces (from LTG-2C)	
Adjusted Installed Lighting Power		8,84	Adjusted Lighting Po		
Complies if Installed ≤ Allo	wed	1	Complies	if Installed ≤ Allowed	1
Allowed Lighting Power Conditioned Spaces (from L	TG-3C or PERF-1)	16,0		ighting Power oned Spaces (from LTG-3C)	
				ted building or space or when e	
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CERTIFICATE OF COMPLIANC	E		(Part 3 c	f 4)	LTC	3-1
Project Name Verizon					Date 2/20/	20
INDOOR LIGHTING SCHEDULE and FIELD	INSPECTION	ENERGY CHECKL	IST			
Fill in controls for all spaces: a) area controls, b) in automatic daylighting controls for daylit areas > 2,1 general lighting controlled separately from display, controls for retail stores > 50,000 ft°, in accordance	ulti-level contro 500 ft ² , d) shut- omamental an	ls, c) manual daylightin off controls, e) display li d display case lighting :	g controls for controls	i. () tailored li	antina cer	ntrol
MANDATORY LIGHTING CONTROLS - FIE			KLIST		F36	
Type/ Description	Number of Units	Location in Build	ding	Special Features		
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SPECIAL FEATURES INSPECTION CHEC						
The local enforcement agency should pay special justification and documentation, and special waffl and may reject a building or design that otherwise submitted.	eation. The loca	I soforcement agency of	delermines the	adequacy of	the watin	cati
	www.rw.					1-2, 1-2
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Fleid Inspector's Notes or Discrepancies:						
EnergyTro 3.1 by EnergySoft User Number: 3982	DunCarie:	2013-02-20709:38:55	ID. VZOXGG			age
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	TIFICATE OF COMPLIANCE			(Par	12 of 4	<u>)</u>	L. Date	rg-	10
ojeci Přízo								20/20	313
	OR LIGHTING SCHEDULE and FIELD INSP	ECTIO	N ENERG	3Y CH	ECKLIS	ST.			
	atton Certificate, LTG-1-INST (Estain a copy and verify form is					Field Ins	epector	E	3
	cate of Acceptance, LTG-2A and LTG-3A (Retain a copy and					Field Ins		C]
sepa	rate Lighting Schedule Must Be Filled Out for Conditioned an	id Uncondi	tioned Spac	es instal					-
	hting Schedule is only for:								
<u> 2</u> 1	CONDITIONED SPACE The actual indoor lighting power listed below includes all in		NCONDITIC			uotama i	o accord	anna	
23 23	with \$146(a). Only for offices: Up to the first 0.2 watts per square foot of calculation of actual indoor lighting power density in accom-	portable lic	ahtino shall	not be re	quired to t	oe includ	ed in the		
	0.2 watts per square foot is totaled below.								
	Luminaire (Type, Lamps, Ballasts)				talled W	1			
A	." . B	C	Ð	Hosev	E lattage lomined	F	G		H ***
None or Item Tag	Complete Luminaire Description' (4), 2 lang flucescent tester, PSTS, one dimensional substrate but asta)		Wells per Luminairs	CEC Default From NA6	According To \$130 (d.or.e)	Number of Luminaires	Instelled Wells (D.X.F.)	ž	į
D1	D1 - FLUORESCENT PENDANT 4-32W PLT		64.0	2		δ	384	Ω	
۶ŧ	F1 - LINEAR FLUORESCENT 2-28W TS		64.0	23	D.	16	896	G.	
F12	F12 - 2X2 LINEAR PLUORECENT RECESSED 2-14W TS		34.0	. 2	Ω.	22	748	σ.	
F2	F2 - 20W LED RECESSED DOWNLIGHT		20.0	Ø		35	700	0	U
F3	F3 - 20W LED RECESSED DOWNLOGHT		20.0	23		91	1,820	*	H
F4A	F4A - ROUND FLUORECENT RECESSED 8-28W T5		192.0	Ø	0	2	384	Ω.	
FAB	P4B - ROUND FLUORECENT RECESSED 6-28W TS		192.0	8		4	768	O	
F40	F4C - ROUND FLUDRECENT REDESSED 10-28W T5		320.0	20		2	640	O	
F8	F6 - 2' LINEAR FLUÖRECENT RECESSED 2-28W 15		60.0	80	0	8	486	Ξ.	
F5A	F5A - E' LINEAR FLUORECENT RECESSED 2-39W T5		54.0	2		27	1,728		
FB	F6 - STAGGERED FLUORESCENT STRIP 2-20W TS		64.0	£3	<u> </u>	30	1,920	Ω.	
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	Building total number of pages:			nstelled V	Vetts Pag etts Buildir Sum of all	g Total	10,468	223	
- Wati	rone shall be determined according to Section 130 (d end a). Wester	e shell be m	ting of light 8	r into LT	G-1C Pag	e 4 of 4	10,468		
# Fa	il then describe on Page 2 of the Inspection Checklist Form and take	eppropriess	action to co	rect. Veril	y building p	itans it nec	cecsory.		

roject Name fertizon roject Address 800 Solar Drive Oxnard ENERAL INFORMATION Ruilding Type: School Retocatable Public School School School Phase of Construction: New Construction dethod of Compliance: Complete Building Documentation Author's Declaration Statem certify that this Certificate of Compliance documentation is some Company Syske Mannessy Group, Inc. Indicates Chylikiteizip The Principal Lighting Designer's Declaratio I am eligible under Division 3 of the California Builgifting design. This Certificate of Compliance identifies the light compliance with Title 24, Pages 1 and 6 of the C The design features represented on this Certific to document this design on the other applicable as specifications submitted to the enforcement ager Specifications submitted to the enforcement ager See Sedigitic Company	6 High-Rise Resi Conditioned Sp Addition Area Category ent accurate and com n Statement siness and Profe ng features and a altifornia Code of te of Compiliance forms compiliance forms	dential Coaces C C C C C C C C C C C C C C C C C C C	Hotel/Mote Uncondition Uncondition Alteration Tailored 2202013 E g to accept reconspectations specifications specifications specifications specifications specifications specifications specifications specifications specifications	sponsibility for to required for required for proving the second of the
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LIGHTING COMPLIANCE FORMS & WORKSHEETS (a For detailed instructions on the use of this and all Grenty Efficiency Story by the California Energy Commission.	indards compliance is	orns: please re	fer to the Nonreal	identisi Manue pub
☑ LTG-1C Pages 1 through 4 Certificate of Compliance.	Ali Pages required or	n plans for all su	sbreittals.	
☑ LTG-2C Lighting Controls Credit W	orkeheet			
☑ LTG-SC Indoor Lighting Power Allo	wance			
LTG 4C Pages 1 through 4 Tailored Method Workshe				
■ LTG 5C Pages 1 and 2 Line Voltage Track Lightin	g Worksheet			
EnergyPro 5.1 by EnergySoR User Number: 3982 RunCod	: 2013-02-20709:38	:55 (0:1	(ZOX000	Fag

LIGHTIN	IG MANDATORY MEASURES: NONRESIDENTIAL	LTG-MN
Project Name Verizon		Date 2/20/2013
Indoor Lie	ghting Measures:	
§131(d): Sh	ut-off Controls	
1.	For every floor, all interior lighting systems shall be equipped with a separate automatic contribies automatic control shall meet the requirements of Section 119 and may be an occupancy swach, or other device capable of sucomatically shutting off the lighting.	sensor, automatic time
2.	Override for Building Lighting Shut-off: The automatic building shut-off system is provided wi override switch in sight of the lights. The area of override is not to exceed 5,000 square feet.	
§119(h):	Automatic Control Devices Certified: All automatic control devices specified are certified, all be certified and installed as directed by the manufacturer.	alternate equipment shall
§111:	Expressent Ballast and Luminaires Certified: All fluorescent fixtures specified for the project are Directory. All installed fixtures shall be certified.	certified and listed in the
§131(a):	individual Room/Area Controls: Each room and area in this building is equipped with a sepail sensor device for each area with floor-to-ceiling waits.	rate switch or occupancy
§131(b):	Uniform Reduction for Individual Floories: All rooms and areas greater than 100 square feet a per square foot of lighting load shall be controlled with bi-level switching for uniform reduction room.	and more than 0.8 waits of lighting within the
§131(c):	Daylight Area Control: All rooms with windows and skylights that are greater than 250 squan the effective use of skylight in the area shall have 50% of the larges to each daylift area control or the effective use of daylight cannot be accomplished because the windows are continuous the adlocent tot. Diagram of shading guiring different times of the year is included on plans.	olled by a separate switch
§131(c):	Display Lighting. Display lighting shall be separately switched on circuits that are 20 amps o	r less.6.
Outdoor	Lighting Measures:	
§130(c)1:	Mandatory lighting power determination for medium base sockets without permanently install	led ballasts
§192(a):	All permanently installed luminaires with lamps rated over 100 Watts either have a lamp efficient Watt or are controlled by a motion sensor.	acy of at least 60 lumens
§132(b):	All Luminaires with lamps rated greater than 175 Watts in hardscape area, including parking canopies, and all outdoor sales areas meet the Cutoff Requirements.	lots, building entrances,
§132(c)1:	All permanently installed oxidoor lighting meets the control requirements listed.	
§132(c):	Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Le listed.	wei Lighting Requirement

INDOOR LIGHTING POWER ALLOWANCE					LTG-3C
Project Name Vorizon					Oate 2/20/2013
ALLOWED LIGHTING POWER (Chase One Method)					
A Separate LTG-3C must be filled out for Conditioned and Unconditioned 5	Spaces, Indoor Ugh	dag:	ower Allowances	liste	d on this
page are only for: ZO CONDITIONED SPACES DI UNCONDITIONED	SPACES				
COMPLETE BUILDING METHOD					
	WATTS PER (N°)	x	COMPLETE	=	ALLOWED WATTS
BUILDING CATEGORY (From §146 Table 146 E)	PER (N.)	^ -	BLDG. AREA	* -	WAIIS
		-		-	
	+	-		-	
	+	-		-	
*					
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	1				
	 				
	TOTALS				
	TOTALS		AREA		WATTS
AREA CATEGORY METHOD			AREA		WATTS
AREA CATEGORY METHOD BUILDING CATEGORY (From §146 Table 146-F)	TOTALS WATTS PER (N²)	×	AREA Area 11 ²	=	
	WATTS	*		= .	ALLOWED WATTS
BUILDING CATEGORY (From §146 Table 146-F)	WATTS PER (R ²)	*	Area ft²	= ,	ALLOWED WATTS 1,92
BUILDING CATEGORY (From §146 Table 146-F) Carridon/Restreons/Support	WATTS PER (8 ²)	×	Area ît ² 3,204	= .	ALLOWED WATTS 1,92 1,39
BUILDING CATEGORY (From §146 Table 146-F) CarristonRestours/Support Laurings, Rounsidon	WATTS PER (8°) 0.60 1.30	×	Area 11 ² 3,204 1,268	= .	ALLOWED WATTS 1,92 1,39 3,66
BUILDING CATEGORY (From §146 Table 146-F) CarristonRestoom-Support Lounge, Roomston Committee Conference (Replied Conference)	WATTS PER (R ²) 0.60 1.10	*	Area tt ² 3,204 1,268 2,190	= .	ALLOWED WATTS 1,92 1,39 3,06 8,18
BUILDING CATEGORY (From §146 Table 146-F) CarristonRestronnoSupport Linanga, Roznastion Committee Conference Resulting Kischen, Food Preparation	WATTS PER (11) 0.69 1.10 1.40	*	Area ti ² 3,204 1,268 2,190 5,113	=	ALLOWED WATTS 1,92 1,39 3,09 8,18
BUILDING CATEGORY (From §146 Table 146-F) Candon/Restours/Support Lucings, Rounsidian Committee Conferenced Repling Historian, Pool Preparation Office == 250 sqft	WATTS PER (N°) 0.60 1.30 1.40 1.60 1.10	*	Area 11 ² 3.204 1,268 2,190 5,113 761	= .	ALLOWED WATTS 1,92 1,39 3,06 8,18 53
BUILDING CATEGORY (From §146 Table 146-F) CarrishneRestevens/Support Linenge, Recreation Convention-Contenuach/Seeling Kitchen, Food Preparation Office on 260 still Commercial, Industrial Sterega	WATTS PER (9 ²) 0.60 1.10 1.40 1.60 1.10	X	Area 11 ² 3.204 1,268 2,190 5,113 761	= .	ALLOWED WATTS 1,92 1,39 3,06 8,18 53
BUILDING CATEGORY (From §146 Table 146-F) CarrishneRestevens/Support Linenge, Recreation Convention-Contenuach/Seeling Kitchen, Food Preparation Office on 260 still Commercial, Industrial Sterega	WATTS PER (9 ²) 0.60 1.10 1.40 1.60 1.10	X	Area 11 ² 3.204 1,268 2,190 5,113 761	= .	ALLOWED WATTS 1,92 1,39 3,06 8,18 53
BUILDING CATEGORY (From §146 Table 146-F) CarrishneRestevens/Support Linenge, Recreation Convention-Contenuach/Seeling Kitchen, Food Preparation Office on 260 still Commercial, Industrial Sterega	WATTS PER (9 ²) 0.60 1.10 1.40 1.60 1.10	X	Area 11 ² 3.204 1,268 2,190 5,113 761	= .	ALLOWED WATTS 1,92 1,39 3,06 8,18 53
BUILDING CATEGORY (From §146 Table 146-F) CarrishneRestevens/Support Linenge, Recreation Convention-Contenuach/Seeling Kitchen, Food Preparation Office on 260 still Commercial, Industrial Sterega	WATTS PER (9 ²) 0.60 1.10 1.40 1.60 1.10	*	Area 11 ² 3.204 1,268 2,190 5,113 761	=	ALLOWED WATTS 1,92 1,39: 3,66 8,18 53
BUILDING CATEGORY (From §146 Table 146-F) CarrishneRestevens/Support Linenge, Recreation Convention-Contenuach/Seeling Kitchen, Food Preparation Office on 260 still Commercial, Industrial Sterega	WATTS PER (9 ²) 0.60 1.10 1.40 1.60 1.10	X	Area 11 ² 3.204 1,268 2,190 5,113 761	= .	ALLOWED
BUILDING CATEGORY (From §146 Table 146-F) CarrishneRestevens/Support Linenge, Recreation Convention-Contenuach/Seeling Kitchen, Food Preparation Office on 260 still Commercial, Industrial Sterega	WATTS PER (9 ²) 0.60 1.10 1.40 1.60 1.10	X	Area 11 ² 3.204 1,268 2,190 5,113 761	=	ALLOWED WATTS 1,92 1,39 3,06 8,18 53
BUILDING CATEGORY (From §146 Table 146-F) CarrishneRestevens/Support Linenge, Recreation Convention-Contenuach/Seeling Kitchen, Food Preparation Office on 260 still Commercial, Industrial Sterega	WATTS PER (9 ²) 0.60 1.10 1.40 1.60 1.10	*	Area 11 ² 3.204 1,268 2,190 5,113 761		ALLOWED WATTS 1,92 1,39 3,06 8,18 53
BUILDING CATEGORY (From §146 Table 146-F) CarrishneRestevens/Support Linenge, Recreation Convention-Contenuach/Seeling Kitchen, Food Preparation Office on 260 still Commercial, Industrial Sterega	WATTS PER (9 ²) 0.60 1.10 1.40 1.60 1.10	X	Area 11 ² 3.204 1,268 2,190 5,113 761		ALLOWED WATTS 1,92 1,39 3,06 8,18 53
BUILDING CATEGORY (From § 146 Table 146-F) Convision/Residence/Support Listinge, Reconsistion Convenient/Continence/Assetting Kitchian, Food Preparation Officer on 269 self Commercial, Individual Storage	WATTS PER (87) 0.69 1.30 1.40 1.50 1.10 0.60 1.20	*	Area tt ² 3.204 1,208 2,190 5,113 761 38		ALLOWED WATTS 1,522 1,339 3,006 8,16 8,53 2 63
BUILDING CATEGORY (From § 146 Table 146-F) Convision/Residence/Support Listinge, Reconsistion Convenient/Continence/Assetting Kitchian, Food Preparation Officer on 269 self Commercial, Individual Storage	WATTS PER (87) 0.69 1.30 1.40 1.50 1.10 0.60 1.20	*	Area 11 ² 3.204 1,268 2,160 5,113 761 38 927		ALLOWED WATTS 1,922 1,938 3,000 8,19 65 65
BUILDING CATEGORY (From §146 Table 146-F) Carridor/RestructorSupport Loringe, Roversiden Zonvenden/ConferenceAfselding Cetterien, Food Preparation Office on 250 sqft Commercial, Industrial Storage Classroom, Lecture, Fraining	WATTS PER (RT) 0.69 1.40 1.40 1.60 1.10 0.60 1.20		Area 11 ² 3.204 1,268 2,160 5,113 761 36 627	=	ALLOWED WATTS 1,522 1,533 3,000 8,19 53 2 65
BUILDING CATEGORY (From §146 Table 146-F) Tourishin/Restroams/Support Tourishin Resolvation Solventican/Conference/Meelling Solventican/Conference/Meelling Solventican/Conference/Meelling Solventican/Conference/Meelling Solventican/Conference/Meelling Solventican/Conference/Meelling Solventican/Conference/Meelling Tourishing TAILORED METHOD Total Allowed Watts using the Tailored Mee	WATTS PER (RT)	G-4C	Area tt ² 3.204 1,208 2,190 5,113 761 38 627 13,689 AREA (;Page 1 of 4) Rov		ALLOWED WATTS 1,522 1,533 3,05 8,19 533 2 63 63
BUILDING CATEGORY (From §146 Table 146-F) Carridor/RestructorSupport Loringe, Roversiden Zonvenden/ConferenceAfselding Cetterien, Food Preparation Office on 250 sqft Commercial, Industrial Storage Classroom, Lecture, Fraining	WATTS PER (RT)	G-4C	Area tt ² 3.204 1,208 2,190 5,113 761 38 627 13,689 AREA (;Page 1 of 4) Rov		ALLOWED WATTS 1,522 1,533 3,05 8,19 533 2 63 63

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A Separate PAF Worksheet Must Be Filled Out for Conditioned and Unconditioned Spaces. Control Credits listed on this schoolule are no only for: A B C D E F G	212013	<u></u>		T AGNITAGE	1000 W 2100 FA		
Schedule are only for:	o ibis	rol Craciita listad					
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Room R Zone Day Control Cont			NEO SPACES	UNCONDITIO	П	ONED SPACES	M CONDITI
Plant Plan	G	F	E	D	c	A	Δ
### SPEAKOUT 206 Occ Sensor - Mail-Level	Control edit Walls	Adjustments	Central	Floorn Area	Plan		
### STATE ST	3						
### SPREAKOUT 205 Occ Senter - Multi-Level	7				f		
### SPERAKCUT 305 Doc Sansor - Malife Level F4A 634 102 0.20 ### SPERAKCUT 305 Doc Sansor - Malife Level F4C 634 320 0.20 ### DECAMPTER DECAMPAGE AND A MARIE Level F4C 634 320 0.20 ### CONFERENCE 201 Oct Sansor - Malife Level F7 226 178 0.20 ### CONFERENCE 201 Oct Sansor - Malife Level F7 226 178 0.20 ### CONFERENCE 201 Oct Sansor - Malife Level F7 266 178 0.20 ### CONFERENCE 201 Oct Sansor - Malife Level F7 266 178 0.20 ### CONFERENCE 201 Oct Sansor - Malife Level F7 266 178 0.20 ### CONFERENCE 201 Oct Sansor - Malife Level F7 266 178 0.20 ### CONFERENCE 301 Oct Sansor - Malife Level F7 266 178 0.20 ### CONFERENCE 301 Oct Sansor - Malife Level F7 266 178 0.20 ### CONFERENCE 301 Oct Sansor - Malife Level F7 267 170 0.20 ### CONFERENCE 301 Oct Sansor - Malife Level F7 276 170 0.20 ### CONFERENCE 301 Oct Sansor - Malife Level F7 276 170 0.20 ### CONFERENCE 301 Oct Sansor - Malife Level F7 276 170 0.20 ### CONFERENCE 301 Oct Sansor - Malife Level F7 276 0.20 ### CONFERENCE 301 Oct Sansor - Malife Level F7 276 0.20 ### CONFERENCE 302 Oct Sansor - Malife Level F7 276 0.20 ### CONFERENCE 303 Oct Sansor - Malife Level F7 276 0.20 ### CONFERENCE 302 Oct Sansor - Malife Level F7 3 412 170 0.20 ### CONFERENCE 303 Oct Sansor - Malife Level F7 3 412 170 0.20 ### CONFERENCE 303 Oct Sansor - Malife Level F7 3 412 170 0.20 ### CONFERENCE 304 Oct Sansor - Malife Level F7 3 412 170 0.20 ### CONFERENCE 304 Oct Sansor - Malife Level F7 3 412 170 0.20 ### CONFERENCE 304 Oct Sansor - Malife Level F7 3 412 170 0.20 ### CONFERENCE 304 Oct Sansor - Malife Level F7 3 412 170 0.20 ### CONFERENCE 305 Oct Sansor - Malife Level F7 3 412 170 0.20 ### CONFERENCE 305 Oct Sansor - Malife Level F7 3 412 170 0.20 ### CONFERENCE 305 O	6		1		ł		
SREARCUT 935 Cot Sunsor - Multi-Level F46 G34 384 0.20	3						
### REARCH 385 Oct Sensor - Malife Level F40 G34 350 0.20 ### CONFERENCE 20 Oct Sensor - Malife Level F7 226 128 0.20 ### CONFERENCE 20 Oct Sensor - Malife Level F7 370 192 0.20 ### CONFERENCE 30 Oct Sensor - Malife Level F7 276 128 0.20 ### CONFERENCE 30 Oct Sensor - Malife Level F7 276 128 0.20 ### CONFERENCE 30 Oct Sensor - Malife Level F7 276 128 0.20 ### CONFERENCE 30 Oct Sensor - Malife Level F7 276 128 0.20 ### CONFERENCE 31 Oct Sensor - Malife Level F7 276 128 0.20 ### CONFERENCE 31 Oct Sensor - Malife Level F7 276 128 0.20 ### CONFERENCE 31 Oct Sensor - Malife Level F7 276 120 0.20 ### CONFERENCE 31 Oct Sensor - Malife Level F7 276 130 0.20 ### MEETING 314 Oct Sensor - Malife Level F7 276 130 0.20 ### MEETING 314 Oct Sensor - Malife Level F7 276 130 0.20 ### MEETING 314 Oct Sensor - Malife Level F7 276 130 0.20 ### MEETING 314 Oct Sensor - Malife Level F7 276 276 130 0.20 ### MEETING 315 Oct Sensor - Malife Level F7 276 276 0.20 ### MEETING 316 Oct Sensor - Malife Level F7 276 276 0.20 ### MEETING 317 Oct Sensor - Malife Level F7 276 276 0.20 ### Oct Sensor - Malife Level F7 276 276 0.20 ### Oct Sensor - Malife Level F7 276 276 0.20 ### Oct Sensor - Malife Level F7 276 0.20 ### Oct Sensor - Malife Level F7 276 0.20 ### Oct Sensor - Malife Level F7 277 0.20 ### MEETING 0FFC Oct Sensor - Malife Level F7 277 0.20 ### Oct Sensor - Malife Level F7 277 0.20 ### Oct Sensor - Malife Level F7 277 0.20 0.20 ### Oct Sensor - Malife Level F7 277 0.20 0.20 ### Oct Sensor - Malife Level F7 277 0.20 0.20 ### Oct Sensor - Malife Level F7 277 0.20 0.20 ### MEETING 0FFC Oct Sensor - Malife Level F7 277 0.20 0.20 ### Oct Sensor - Malife Level F7 0.20 0.20 0.20 ### Oct Sensor - Malife L							
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### CONNETHENCE 20 Occ Sensor - Modific Level	2				<u> </u>	***************************************	
### CONNETERINGS 30 Oct Sensor Adult Leval Ff 226 128 0.20 #### CONNETERINGS 30 Oct Sensor Adult Leval Ff 326 132 0.20 ##### CONNETERINGS 30 Oct Sensor Adult Leval Ff 326 132 0.20 ####################################	3			1	1	Occ Sensor - Niciti-Level	COMFERENCE 202
CONNERSENCE SQ Coc Sensor - Matth Level	2				F1	Occ Sensor - Multi-Leve!	COMFERENCE 201
COMPERENCE 30 Cos Sanzor - Malife anni F7 246 128 0.20 COMPERENCE 31, Coc Sanzor - Malife towal F12 376 204 0.20 MEETING 314 Coc Sanzor - Malife towal F12 226 130 0.20 MEETING 314 Coc Sanzor - Malife towal F12 226 130 0.20 PANTRY 203 Coc Sanzor - Malife towal F12 120 0.20 PANTRY 203 Coc Sanzor - Malife towal D1 612 159 0.20 PANTRY 203 Coc Sanzor - Malife towal F3 812 120 0.20 CAFE 110 Coc Sanzor - Malife towal F3 812 120 0.20 CAFE 110 Coc Sanzor - Malife towal F3 3480 1,728 0.20 CAFE 110 Coc Sanzor - Malife towal F3 3480 1,728 0.20 CAFE 110 Coc Sanzor - Malife towal F3 3480 1,728 0.20 CAFE 110 Coc Sanzor - Malife towal F3 3,480 660 0.20 CAFE 110 Coc Sanzor - Malife towal F3 3,480 460 0.20 CAFE 110 Coc Sanzor - Malife towal F3 3,480 460 0.20 CAFE 110 Coc Sanzor - Malife towal F3 812 120 0.20 PANTRY 303 Coc Sanzor - Malife towal F3 812 120 0.20 PANTRY 303 Coc Sanzor - Malife towal F3 812 120 0.20 CAGACHINO CFFC Coc Sanzor - Malife towal F12 134 68 0.20 CAGACHINO CFFC Coc Sanzor - Malife towal F12 134 68 0.20 CAGACHINO CFFC Coc Sanzor - Malife towal F12 134 68 0.20 CAGACHINO CFFC Coc Sanzor - Malife towal F12 134 68 0.20 CAGACHINO CFFC Coc Sanzor - Malife towal F12 134 68 0.20 CAGACHINO CFFC Coc Sanzor - Malife towal F12 134 68 0.20 CAGACHINO CFFC Coc Sanzor - Malife towal F12 134 68 0.20 CAGACHINO CFFC Coc Sanzor - Malife towal F12 134 68 0.20 CAGACHINO CFFC Coc Sanzor - Malife towal F12 134 68 0.20 CAGACHINO CFFC Coc Sanzor - Malife towal F12 134 69 0.20 CAGACHINO CFFC Coc Sanzor - Malife towal F12 134 68 0.20 CAGACHINO CFFC Coc Sanzor - Malife towal F12 134 68 0.20 CAGACHINO CFFC Coc Sanzor - Malife towal F12 134 68 0.20 CAGACHINO CFFC Coc Sanzor - Malife towal F12 134 68 0.20 CAGACHINO CFFC Coc Sanzor - Malife towal F12 134 68 0.20 CAGACHINO CFFC Coc Sanzor - Malife towal F12 134 68 0.20 CAGACHINO CFFC Coc Sanzor - Malife towal F12 134 68 0.20 CAGACHINO CFFC Coc Sanzor - Malife towal F12 134 68 0.20 CAGACHINO CFFC Coc Sanzor - Malife towal F12 134 68 0.20 CAGACHINO CFFC Coc Sanzor - Malife towal F12 134 68 0.2	2				Fi	Occ Sensor Multi Level	CONFERENCE 30
### CONFERENCE 31 Coc Sensor Adult-Level F12 370 204 0.20 ##################################	. 3	0.20	192	325	FI	Occ Sansor - Multi-Level	CONFERENCE 301
### ### ### ### ### ### ### ### ### ##	. 2	0.20	158	245	Fi	Oce Sansor - Multi-Level	CONFERENCE 30
PANTRY 233 Cos Sensor - Relief-Level F3 812 720 0.20 PANTRY 232 Cos Sensor - Relief-Level D1 612 592 0.20 PANTRY 232 Cos Sensor - Relief-Level D1 612 592 0.20 CAFE 110 Cos Sensor - Relief-Level F6 3,480 1,728 0.20 CAFE 110 Cos Sensor - Relief-Level F6 3,480 1,728 0.20 CAFE 110 Cos Sensor - Relief-Level F6 3,480 1,702 0.20 CAFE 110 Cos Sensor - Relief-Level F7 3,460 660 0.20 CAFE 110 Cos Sensor - Relief-Level F7 3,480 480 0.20 PANTRY 303 Cos Sensor - Relief-Level F7 812 720 0.20 PANTRY 303 Cos Sensor - Relief-Level D1 812 792 0.20 PANTRY 303 Cos Sensor - Relief-Level D1 812 792 0.20 PANTRY 303 Cos Sensor - Relief-Level F7 3 812 120 0.20 COACHINO OFFIC Cos Sensor - Relief-Level F7 147 68 0.20 COACHINO OFFIC Cos Sensor - Relief-Level F7 147 68 0.20 COACHINO OFFIC Cos Sensor - Relief-Level F7 147 68 0.20 COACHINO OFFIC Cos Sensor - Relief-Level F7 147 68 0.20 COACHINO OFFIC Cos Sensor - Relief-Level F7 147 68 0.20 COACHINO OFFIC Cos Sensor - Relief-Level F7 147 68 0.20 COACHINO OFFIC Cos Sensor - Relief-Level F7 147 68 0.20 COACHINO OFFIC Cos Sensor - Relief-Level F7 147 68 0.20 COACHINO OFFIC Cos Sensor - Relief-Level F7 147 68 0.20 COACHINO OFFIC Cos Sensor - Relief-Level F7 147 68 0.20 COACHINO OFFIC Cos Sensor - Relief-Level F7 147 68 0.20 COACHINO OFFIC Cos Sensor - Relief-Level F7 147 68 0.20 COACHINO OFFIC Cos Sensor - Relief-Level F7 147 68 0.20 COACHINO OFFIC Cos Sensor - Relief-Level F7 147 68 0.20 COACHINO OFFIC Cos Sensor - Relief-Level F7 147 68 0.20 COACHINO OFFIC Cos Sensor - Relief-Level F7 147 147 147 147 147 147 COACHINO OFFIC Cos Sensor - Relief-Level F7 147 147 147 147 147 147 147 147 147 147 147 147 147	4	6.20	204	375	F12	Oce Sensor Multi Level	CONFERENCE 313
PANTEY 233 Oct Sensor - Addit-Level F3 812 120 0.20	2	0.20	138	225	F12	Occ Sonsor - Multi-Level	MEETING 314
PANTRY 2/23 Ces Sonser - Malif-Level F3 812 120 0.20	ē	8.20	120	812	F3	Occ Sensor - Afolio-Leve!	PANTRY 203
PANTRY 202 Occ Sonsor - Adult-Lavel F3 812 120 0.20	3	0.20	:92	612	01	Occ Sensor - Multi-Level	PANTRY 203
CAFE 110 Coc Sansor - Mail-Level F6A 3,489 1,728 0.20	2	0.20	120	812	F3	Occ Soneer - Multi-Level	the section of
CAFE 110	34	0.20	1,728	3,489	FGA	Occ Sensor - Multi-Lavet	CAFE 110
CAFE 110	23	0.20	1,152	3,489	F6	Occ Sensor - Multi-Level	GAF# 110
CAPE 110 Doc Sensor - Addit-Level F5 3,489 480 0.20	73	0.20	. 1	3,499	F3	Occ Sensor - Multi-Loval	170.4
PANTRY 983 Oct. Sanator - Addit-Level	8	0.20	460	3.480	ES		
### PARTERY 303 Coc Sensor - Addit-Level D1		0.20	120		F9		
### PARTERY 503 Occ Sensor - Mobil-Level #3 812 120 G.20 COACHING OFFIC Occ Sensor - Mobil-Level #72 147 66 G.20 COACHING OFFIC Occ Sensor - Mobil-Level #72 147 66 G.20 COACHING OFFIC Occ Sensor - Mobil-Level #72 124 69 D.20 TRANING 215 Occ Sensor - Mobil-Level #72 125 69 D.20 Coaching Offic Occ Sensor - Mobil-Level #72 125 0.20 PAGE TOTAL	3	6.20	192				
COACHING OFFIC Coc Sensor - Multi-Level					+		
COACHRING OFFIC One Sensor - Multi-Level F12 134 69 0.20 TRAINING 215 Coo Sensor - Adult-Level F12 135 69 0.20 TRAINING 215 Coo Sensor - Adult-Level F12 527 227 0.20 PAGE TOTAL Note: Building total of non day ight control credit waits for all pages of LTG 80 Page 1 of 2 Conditioned and Conditioned Space shall be specially be supported to the Condition of the Condition of Space shall be specially be supported to the Condition of the Condition of the Condition of Space shall be specially be supported to the Condition of the Condition of Conditi	<u>`</u>						
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Note: Building total of non day ight control credit waits for all pages of LTG 8C Page 1 of 2 Conditioned and Enter building total of all daylant controls credit waits from LTGs CP Page 1 of 2 Pulconditioned Building Total of AL Control Control Control Control Control Space shall be Space							
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space shall be (FOR SOTH NON-DAYLIGHT AND DAYLIGHT CONTROL CREDITS) separately Enter is LTG-1C. Prop. 4: Lighting Control Crack as appropriate for CONDITIONED		PEC Page 2 of 2 CREDIT WATTS	ALL CONTROL	yegnt controls on DING TOTAL OF	Duriding total of all d	Enter	Unconditioned
V. O. GO WATTONED ODDING	1,6	ROL GREDITS) CONDITIONED	DAYLIGHT CON-	CAYLIGHT AND	JEOR SOTH NON	Enter in C	separately
Description shall be consistent with Type of Control distined in Table 146-C Power Adjustment Factor taken from Table 146-C					ed in Table 146-G	I he consistent with Type of Control defi and Factor taken from Table 146 C	Description she Power Aritmeter

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	CONDITIONED SPACE ower for Conditioned Sp			T BE COMBINED FOR COM ocr Lighting Power for Uncome	
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Contain district		Watts	Installar	I Lighting	Wetts
Instelled Lighting (from Conditioned LTG-1C, Pag	(a 2)	10,46		endlitoned LTG-1C, Page 2)	0
Lighting Control Credit Conditioned Spaces (from LTG	201	1,66	Lighting I	Control Credit oned Spaces (from LTG-2C)	- a
Adjusted Installed Lighting Power	×	8,60	distributed.	Installed	= 0
Complies if Installed ≤ Allo	owed	1	Complies	s if Installed ≤ Allowed	1
Allowed Lighting Power Conditioned Spaces (from L	TG-3C or PERF-1)	16,08		Lighting Power lioned Spaces (from LTG-3C)	0
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1800 Solar Drive Oxnard, CA 93030

Gensler

1230 Avenue of the Americas Suite 1500 New York, NY 10020 Telephone 212.492.1400 Facsimile 212.492.1472

SYSKA HENNESSY

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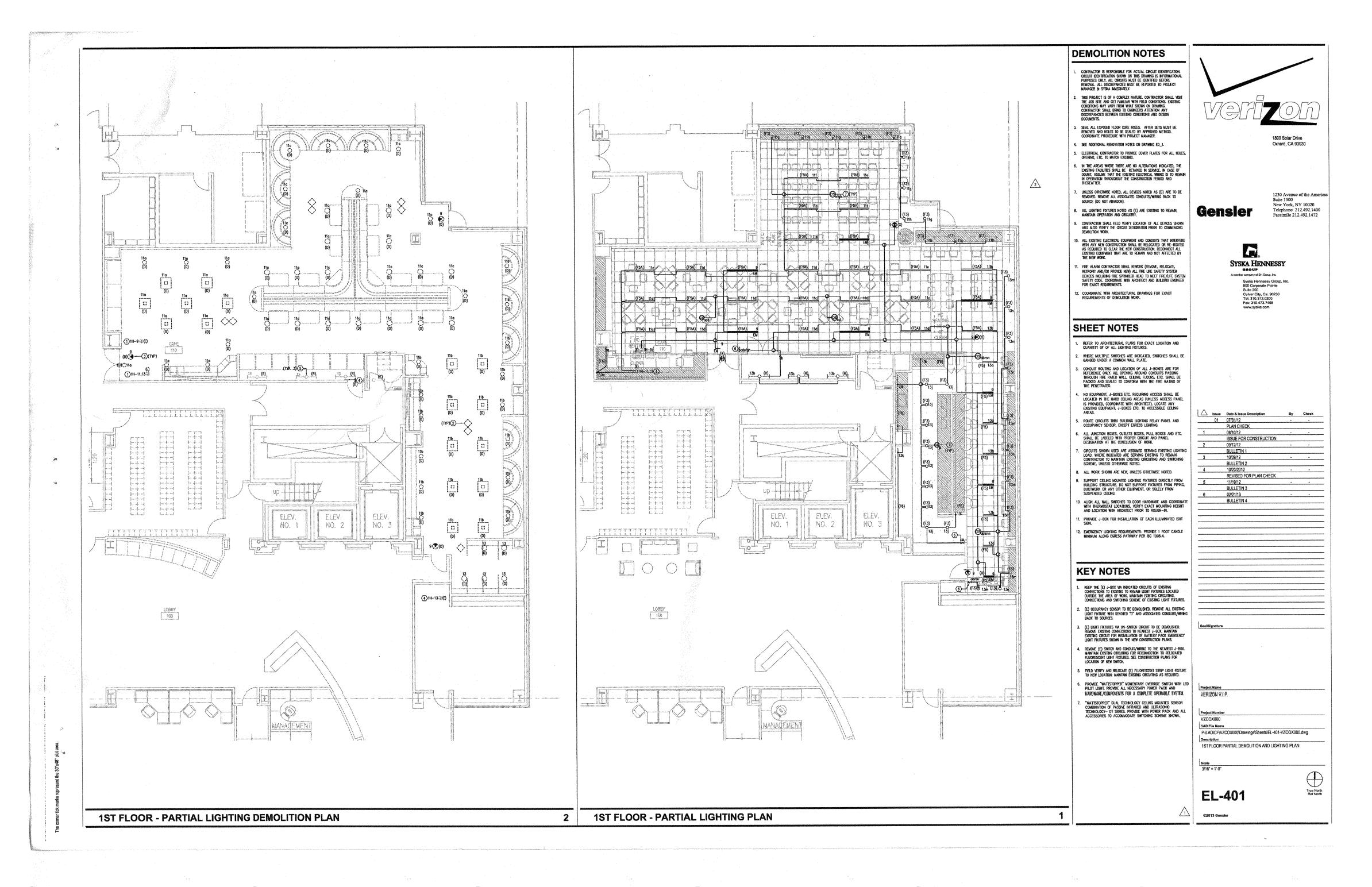
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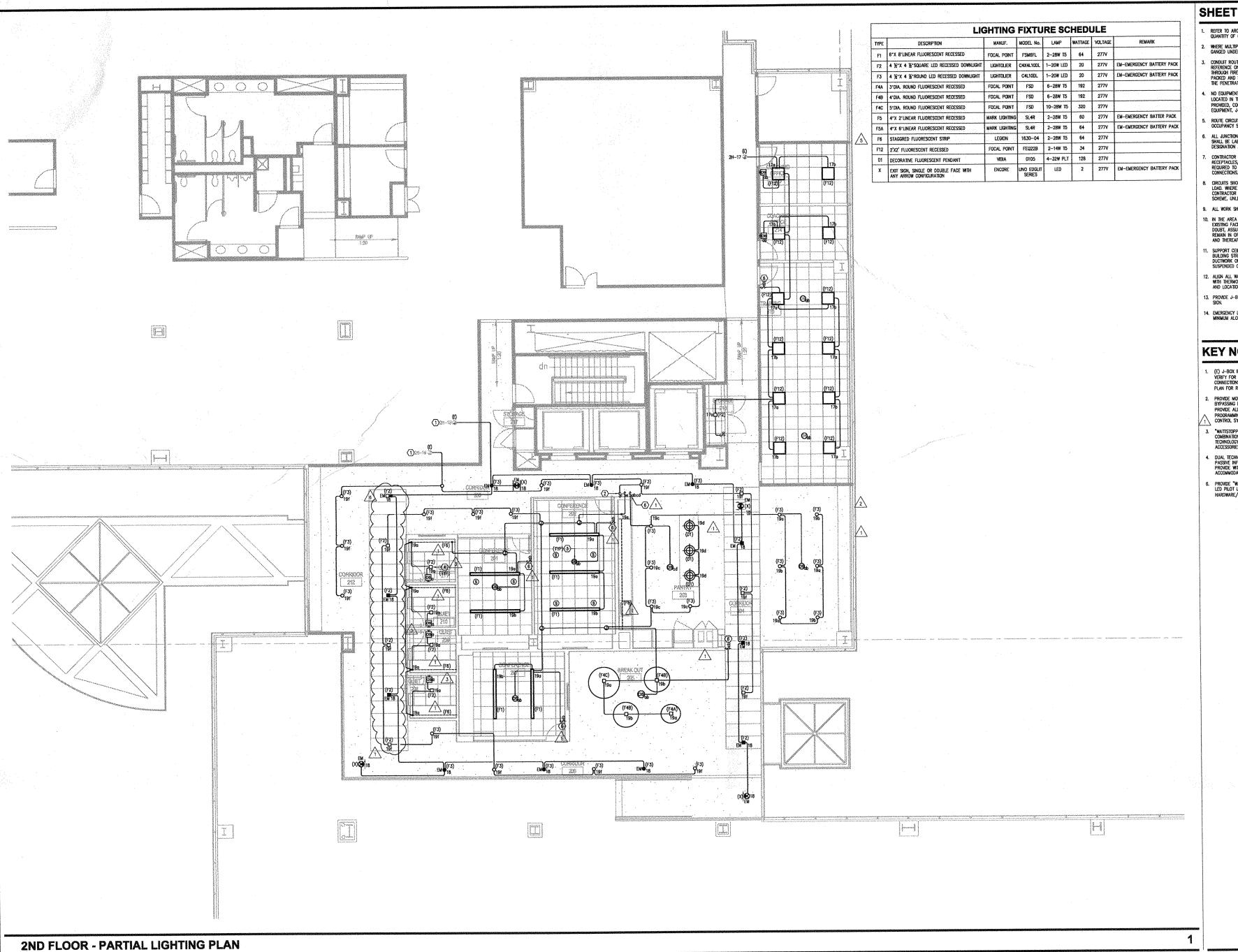
company of SH Group, Inc. Syska Hennessy Group, Inc. 800 Corporate Pointe Suite 200 Culver City, Ca. 90230 Tel: 310.312.0200 Fax: 310.473.7468

01	Date & Issue Description	Ву	Check
	07/31/12	*	
	PLAN CHECK		
1	08/10/12		
	ISSUE FOR CONSTRUCTION		
2	09/12/12	-	-
	BULLETIN 1		
3	10/09/12	-	-
**************************************	BULLETIN 2	***************************************	
4	10/23/2012	-	-
	REVISED FOR PLAN CHECK		
5	11/19/12	,a	
	BULLETIN 3		
6	02/21/13		
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SHEET NOTES

- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND QUANTITY OF OF ALL LIGHTING FIXTURES.
- WHERE MULTIPLE SWITCHES ARE INDICATED, SWITCHES SHALL BE GANGED UNDER A COMMON WALL PLATE.
- CONDUIT ROUTING AND LOCATION OF ALL J-BOXES ARE FOR REFERENCE ONLY. ALL OPENING AROUND CONDUITS PASSING THROUGH FIRE RATED WALL, CEILING, FLOORS, ETC. SHALL BE PACKED AND SEALED TO CONFORM WITH THE FIRE RATING OF THE PENETRATED.
- NO EQUIPMENT, J-BOXES ETC. REQUIRING ACCESS SHALL BE LOCATED IN THE HARD CEILING AREAS (UNLESS ACCESS PANEL IS PROVIDED, COORDINATE WITH ARCHITECT). LOCATE ANY EXISTING EQUIPMENT, J-BOXES ETC. TO ACCESSIBLE CEILING AREAS.
- ALL JUNCTION BOXES, OUTLETS BOXES, PULL BOXES AND ETC. SHALL BE LABELED WITH PROPER CIRCUIT AND PANEL DESIGNATION AT THE CONCLUSION OF WORK.
- CONTRACTOR SHALL EXTEND WIRING FROM ALL JUNCTION BOXES, RECEPTACLES, SWITCHES, ETC AND MAKE FINAL CONNECTIONS AS REQUIRED TO ALL BUILDING EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.
- CIRCUITS SHOWN USED ARE ASSUMED SERVING EXISTING LIGHTING LOAD. WHERE NDICATED ARE SERVING EXISTING TO REMAIN, CONTRACTOR TO MAINTAIN EXISTING CIRCUITING AND SWITCHING SCHEME, UNLESS OTHERWISE NOTED.
- . ALL WORK SHOWN ARE NEW, UNLESS OTHERWISE NOTED. 10. IN THE AREA WHERE THERE ARE NO ALTERATIONS INDICATED, THE EXISTING FACILITIES SHALL BE RETAINED IN SERVICE. IN CASE OF DOUBT, ASSUME THAT THE EXISTING ELECTRICAL WIRING IS TO REMAIN IN OPERATION THROUGHOUT THE CONSTRUCTION PERIOD AND THEREAFTER.
- . SUPPORT CEILING MOUNTED LIGHTING FIXTURES DIRECTLY FROM BUILDING STRUCTURE. DO NOT SUPPORT FIXTURES FROM PIPING, DUCTWORK OR ANY OTHER EQUIPMENT, OR SOLELY FROM SUSPENDED CEILING.
- ALIGN ALL WALL SWITCHES TO DOOR HARDWARE AND COORDINAT WITH THERMOSTAT LOCATIONS. VERIFY EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- PROVIDE J-BOX FOR INSTALLATION OF EACH ILLUMINATED EXIT SIGN.

KEY NOTES

- (E) J-BOX IN ACCESSIBLE CEILING SPACE TO REMAIN, FIELD VERFY FOR EXACT LOCATION AND (E) CIRCUITING, MADE FINAL CONNECTIONS SHOWN, REFER TO PARTIAL LIGHTING DEMOLITION PLAN FOR REFERENCE LOCATION OF (E) J-BOX.
- 2. PROVIDE MOMENTARY OVERRIDE SWITCH WITH PILOT LED BYPASSING BUILDING RELAY CONTROL CIRCUIT. FIELD VERIFY AND PROVIDE ALL NECESSARY HARDWARE/COMPONENTS AND PROGRAMMING COMPATIEL WITH (E) BUILDING LIGHTING RELAY CONTROL SYSTEM TO ACCOMMODATE NEW SWITCHING SCHEME.
- DUAL TECHNOLOGY WALL MOUNTED SENSOR COMBINATION OF PASSIVE INFRARED AND ULTRASORIC TECHNOLOGY DT SERIES. PROVIDE WITH POWER PACK AND ALL ACCESSORIES TO ACCOMMODATE SMITCHING SCHEME SHOWN.

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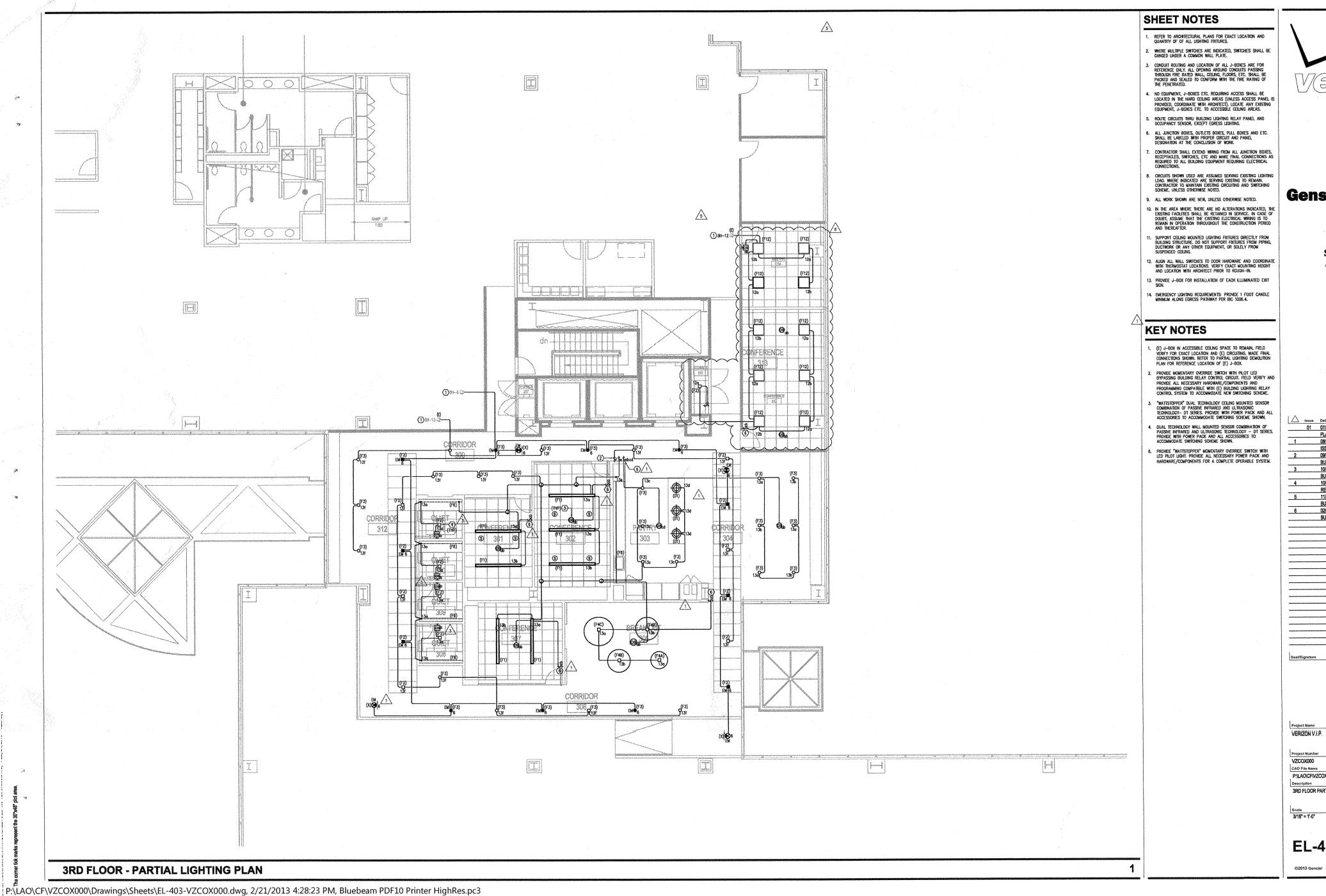
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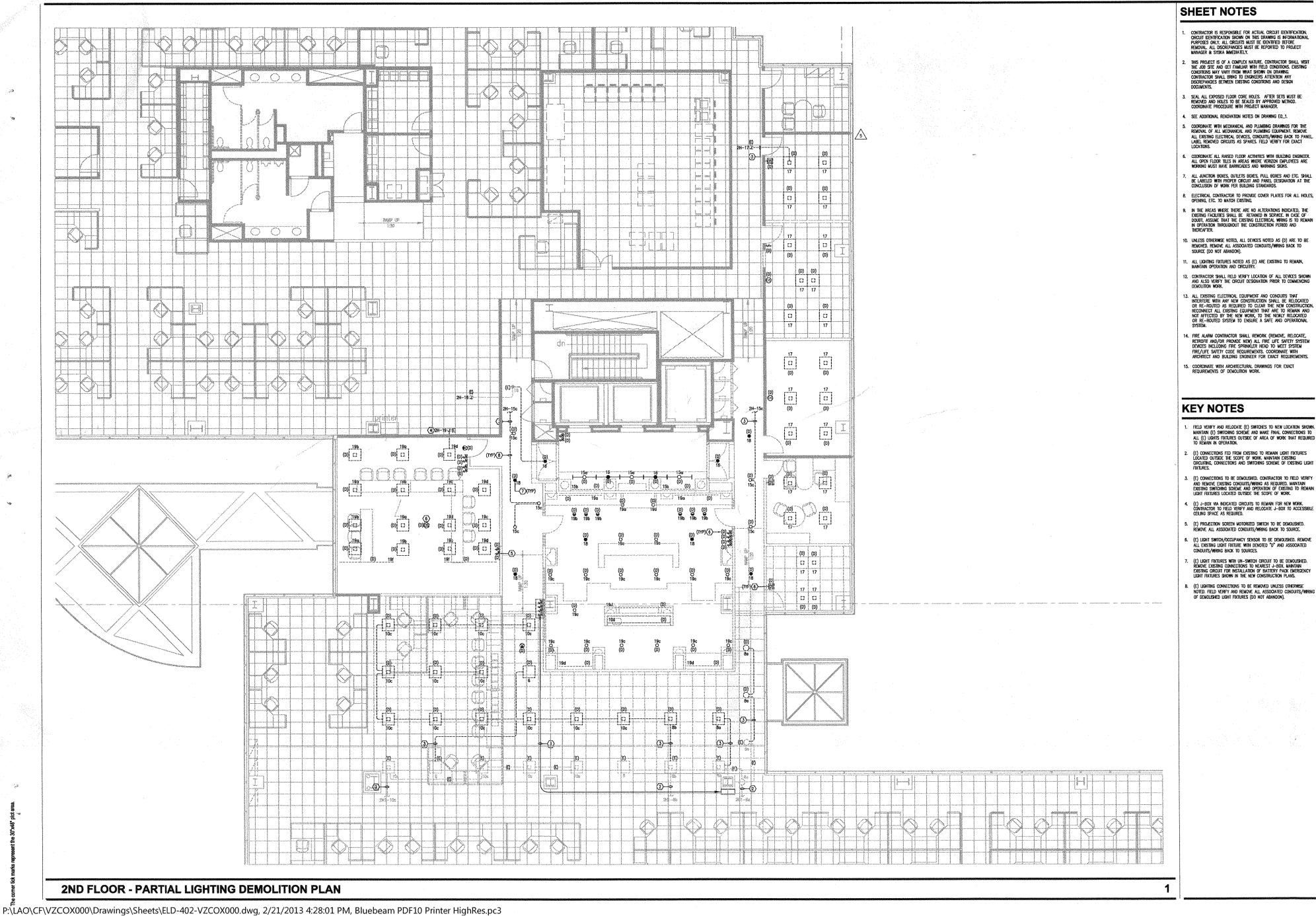
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01 07/31/12 PLAN CHECK 08/10/12 ISSUE FOR CONSTRUCTION 09/12/12 BULLETIN 1 10/09/12 **BULLETIN 2** 10/23/2012

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P:\LAO\CF\VZCOX000\Drawings\Sheets\EL-403-VZCOX000.dwg 3RD FLOOR PARTIAL LIGHTING PLAN

EL-403



SHEET NOTES

THIS PROJECT IS OF A COMPLEX NATURE. CONTRACTOR SHALL WIST-THE JOB SITE AND GET FAMILIAR WITH FIELD CONDITIONS. EXISTING CONDITIONS MAY YARY FROM WHAT SHOWN ON DRAWNS. CONTRACTOR SHALL BRING TO ENGINEERS ATTENTION ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DESIGN DOCUMENTS.

COORDINATE WITH MECHANICAL AND PLUMBING DRAWINGS FOR THE REMOVAL OF ALL MECHANICAL AND PLUMBING EQUIPMENT. REMOVE ALL EMSTING FLECTRICAL DEVICES, CONDUITS WIRRING BACK TO PANEL LABEL ROMOVED CIRCUITS AS SPARES. FIELD VERIFY FOR EXACT LOCATIONS.

COORDINATE ALL RAISED FLOOR ACTIVITIES WITH BUILDING ENGINEER ALL OPEN FLOOR TILES IN AREAS WHERE VERIZON EMPLOYEES ARE WORKING MUST HAVE BARRICADES AND WARNING SIGNS.

ALL JUNCTION BOXES, OUTLETS BOXES, PULL BOXES AND ETC. SHALL BE LABELED WITH PROPER CIRCUIT AND PANEL DESIGNATION AT THE CONCLUSION OF WORK PER BUILDING STANDARDS. . ELECTRICAL CONTRACTOR TO PROVIDE COVER PLATES FOR ALL HOLES, OPENING, ETC. TO MATCH EXISTING.

9. IN THE AREAS WHERE THERE ARE NO ALTERATIONS INDICATED, THE EXISTING FACULTES SHALL BE RETAINED IN SERVICE. IN CASE OF DOUBT, ASSUME THAT THE EXISTING ELECTRICAL WIRNING IS TO REMAIN IN OPERATION THROUGHOUT THE CONSTRUCTION PERIOD AND THEREAFTER.

UNLESS OTHERWISE NOTED, ALL DEVICES NOTED AS (D) ARE TO BE REMOVED, REMOVE ALL ASSOCIATED CONDUITS/WRING BACK TO SOURCE (DO NOT ABANDON).

Contractor shall field verify location of all devices shown and also verify the circuit designation prior to commencing demolition work.

13. ALL EXISTING ELECTRICAL EQUIPMENT AND CONDUITS THAT INTERFERE WITH ANY NEW CONSTRUCTION SHALL BE RELOCATED OR RE-ROUTED AS REQUIRED TO CLEAR THE NEW CONSTRUCTION, RECONNECT ALL EXISTING EQUIPMENT THAT ARE TO REMAIN AND NOT AFFECTED BY THE NEW WORK, TO THE NEWLY RELOCATED OR RE-ROUTED SYSTEM TO ENSURE A SAFE AND OPERATIONAL SYSTEM.

14. FIRE ALARM CONTRACTOR SHALL REWORK (REMOVE, RELOCATE, RETROFIT AND/OR PROWDE NEW) ALL FIRE LIFE SAFETY SYSTEM DEWICES INCLUDING FIRE SPRINKER HEAD TO MEET SYSTEM FIRE/LIFE SAFETY CODE REQUIREMENTS. COORDINATE WITH ARCHITECT AND BUILDING ENGINEER FOR EXACT REQUIREMENTS.

COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT REQUIREMENTS OF DEMOLITION WORK.

KEY NOTES

FIELD VERIFY AND RELOCATE (E) SWITCHES TO NEW LOCATION SHOWN.
MAINTAIN (E) SWITCHING SCHEME AND MAKE FINAL CONNECTIONS TO
ALL (E) LIGHTS PREVIOUS OUTSIDE OF AREA OF WORK THAT REQUIRED
TO REMAIN IN OPERATION.

. (E) CONNECTIONS TO BE DEMOLISHED. CONTRACTOR TO FIELD VERIFY AND REMOVE EXISTING CONDUITS/MIRING AS REQUIRED. MAINTAIN EXISTING SWITCHING SCHEEL AND OPERATION OF EXISTING TO REMAIN LIGHT FIXTURES LOCATED OUTSIDE THE SCOPE OF WORK.

(E) J-BOX VIA INDICATED CIRCUITS TO REMAIN FOR NEW WORK. CONTRACTOR TO PIELD VERIFY AND RELOCATE J-BOX TO ACCESSIBLE CEILING SPACE AS REQUIRED.

(E) PROJECTION SCREEN MOTORIZED SWITCH TO BE DEMOLISHED. REMOVE ALL ASSOCIATED CONDUITS/WIRING BACK TO SOURCE.

(E) LIGHT SWITCH/OCCUPANCY SENSOR TO BE DEMOUSHED. REMOVE ALL ENSTING LIGHT FIXTURE WITH DENOTED "D" AND ASSOCIATED CONDUITS/WRING BACK TO SOURCES.

(E) LIGHT PIXTURES WITH UN-SWITCH CIRCUIT TO BE DEMOUSHED. REMOVE EXISTING CONNECTIONS TO NEAREST J-BOX. MAINTAIN PEXSING CRICUIT FOR INSTALLATION OF BATTERY PACK EMPRECIENCY LIGHT FIXTURES SHOWN IN THE NEW CONSTRUCTION PLANS.

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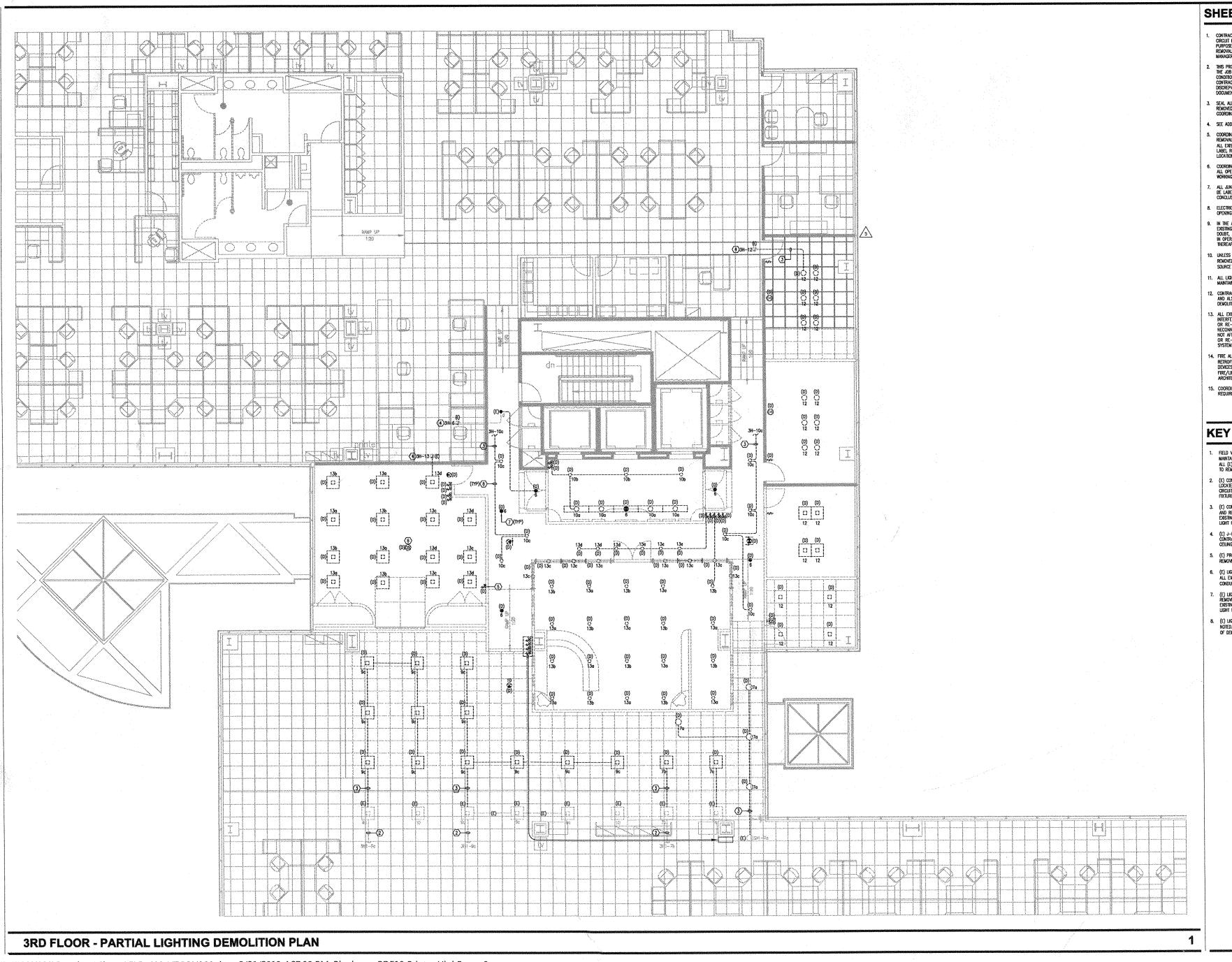
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2ND FLOOR PARTIAL LIGHTING DEMOLITION PLAN

3/16" = 1'-0"

ELD-402

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SHEET NOTES

 CONTRACTOR IS RESPONSIBLE FOR ACTUAL CIRCUIT IDENTIFICATION. CIRCUIT IDENTIFICATION SHOWN ON THIS DRAWING IS INFORMATIONAL PURPOSES ONLY. ALL CIRCUITS MUST BE IDENTIFIED BEFORE REMOVAL ALL DISCREPANCIES MUST BE REPORTED TO PROJECT MANAGER & SYSKA IMMEDIATELY.

- 2. THIS PROJECT IS OF A COMPLEX NATURE. CONTRACTOR SHALL MSIT THE JOB SITE AND GET FAMILIAR WITH FIELD CONDITIONS, EXISTING CONDITIONS MAY VARY FROM WHAT SHOWN ON DRAWNG. CONTRACTOR SHALL BRING TO ENGINEERS ATTENTION ANY DISCREPANCES BETWEEN EXISTING CONDITIONS AND DESIGN DOCUMENTS.
- SEAL ALL EXPOSED FLOOR CORE HOLES. AFTER SETS MUST BE REMOVED AND HOLES TO BE SEALED BY APPROVED METHOD. COORDINATE PROCEDURE WITH PROJECT MANAGER.
- SEE ADDITIONAL RENOVATION NOTES ON DRAWING EQ., 1.

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- COORDINATE WITH MECHANICAL AND PLUMBING DRAWNGS FOR IT REMOVAL OF ALL MECHANICAL AND PLUMBING EQUIPMENT. REMO ALL EXISTING ELECTRICAL DEVICES, CONDUTS/MIRING BACK TO F LABEL REMOVED CIRCUITS AS SPARES. FIELD VERIFY FOR EXACT LOCATIONS.
- COORDINATE ALL RAISED FLOOR ACTIVITIES WITH BUILDING ENGINEER.
 ALL OPEN FLOOR TILES IN AREAS WHERE VERIZON EMPLOYEES ARE
 WORKING MUST HAVE BARRICADES AND WARNING SIGNS.
- ALL JUNCTION BOXES, OUTLETS BOXES, PULL BOXES AND ETC. SHALL BE LABELED WITH PROPER CROUIT AND PANEL DESIGNATION AT THE CONCLUSION OF WORK PER BUILDING STANDARDS.

 ELECTRICAL CONTRACTOR TO PROMDE COVER PLATES FOR ALL HOLES, OPENING, ETC. TO MATCH EXISTING.
- 9. IN THE AREAS WHERE THERE ARE NO ALTERATIONS INDICATED, THE EXISTING FACILITIES SHALL BE RETAINED IN SERVICE. IN CASE OF DOUBT, ASSUME THAT THE EXISTING ELECTRICAL WRING IS TO REMAIN IN OPERATION THROUGHOUT THE CONSTRUCTION PERIOD AND THEREAFTER.
- 10. UNLESS OTHERWISE NOTED, ALL DEWCES NOTED AS (D) ARE TO BE REMOVED, REMOVE ALL ASSOCIATED CONDUITS/WIRING BACK TO SOURCE (DO NOT ABANDON).
- ALL LIGHTING FIXTURES NOTED AS (E) ARE EXISTING TO REMAIN, MAINTAIN OPERATION AND CIRCUITRY.
- CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL DEVICES SHOWN AND ALSO VERIFY THE CIRCUIT DESIGNATION PRIOR TO COMMENCING DEMOLITION WORK.
- 13. ALL EXISTING ELECTRICAL EQUIPMENT AND CONDUITS THAT INTERFERE WITH ANY NEW CONSTRUCTION SHALL BE RELOCATED OR RE-ROUTED AS REQUIRED TO CLEAR THE NEW CONSTRUCTION. RECONNECT ALL EXISTING EQUIPMENT THAT ARE TO REMAIN AND NOT AFFECTED BY THE NEW WORK, TO THE NEWLY RELOCATED OR RE-ROUTED SYSTEM TO ENSURE A SAFE AND OPERATIONAL SYSTEM.
- 14. FIRE ALARM CONTRACTOR SHALL REWORK (REMOVE, RELOCATE, RETROFIT AND/OR PROVIDE NEW) ALL RIRE LIFE SAFETY SYSTEM DEVICES INCLUDING FIRE SPRINKLER HEAD TO MEET SYSTEM FIRE/LIFE SAFETY CODE REQUIREMENTS. COORDINATE WITH ARCHITECT AND BUILDING ENGINEER FOR EXACT REQUIREMENTS.
- COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EX REQUIREMENTS OF DEMOLITION WORK.

KEY NOTES

- FIELD VERIFY AND RELOCATE (E) SWITCHES TO NEW LOCATION SHOWN.
 MAINTAIN (E) SWITCHING SCHEME AND MAKE FINAL CONNECTIONS TO
 AL (E) LIGHTS FIXTURES OUTSIDE OF AREA OF WORK THAT REQUIRED
 TO REMAIN IN OPERATION.
- (E) CONNECTIONS FED FROM EXISTING TO REMAIN LIGHT FIXTURES LOCATED OUTSIDE THE SCOPE OF WORK, MAINTAIN EXISTING CRECATING, CONNECTIONS AND SWITCHING SCHEME OF EXISTING LIGHT FIXTURES.
- (E) CONNECTIONS TO BE DEMOLISHED. CONTRACTOR TO FELD VERIFY
 AND REMOVE EXISTING CONDUITS/WIRNO AS REQUIRED. MAINTAIN
 EXISTING SWITCHING SCHEME AND OPERATION OF EXISTING TO REMAIN
 LIGHT FIXTURES LOCATED OUTSIDE THE SCOPE OF WORK.
- LIGHT FIXTURES LOCATED OUTSIDE THE SCOPE OF WORK.

 4. (E) J-BOX VIA RIDICATED CIRCUITS TO REMAIN FOR NEW WORK.
 CONTRACTOR TO FIELD VERIFY AND RELOCATE J-BOX TO ACCESSIBLE
 CEILING SPACE AS REQUIRED.
- 5. (E) PROJECTION SCREEN MOTORIZED SWITCH TO BE DEMOUSHED. REMOVE ALL ASSOCIATED CONDUITS/WRING BACK TO SOURCE.
- (E) LIGHT SWITCH/OCCUPANCY SENSOR TO BE DEMOUSHED. REMOVE
 ALL EXISTING LIGHT FIXTURE WITH DENOTED "D" AND ASSOCIATED
 CONDUITS/WIRING BACK TO SOURCES.
- 7. (E) LIGHT FIXTURES WITH UN-SWITCH CIRCUIT TO BE DEMOUSHED. REMOVE EXISTING CONNECTIONS TO NEAREST J-BOX, MAINTAIN EXISTING CIRCUIT FOR INSTALLATION OF BATTERY PACK EMERGENCY LIGHT FIXTURES SHOWN IN THE NEW CONSTRUCTION PLANS.
- (e) Lighting connections to be removed unless otherwise noted, field verify and remove all associated conduits/wring of demolished light fixtures (do not abandon).



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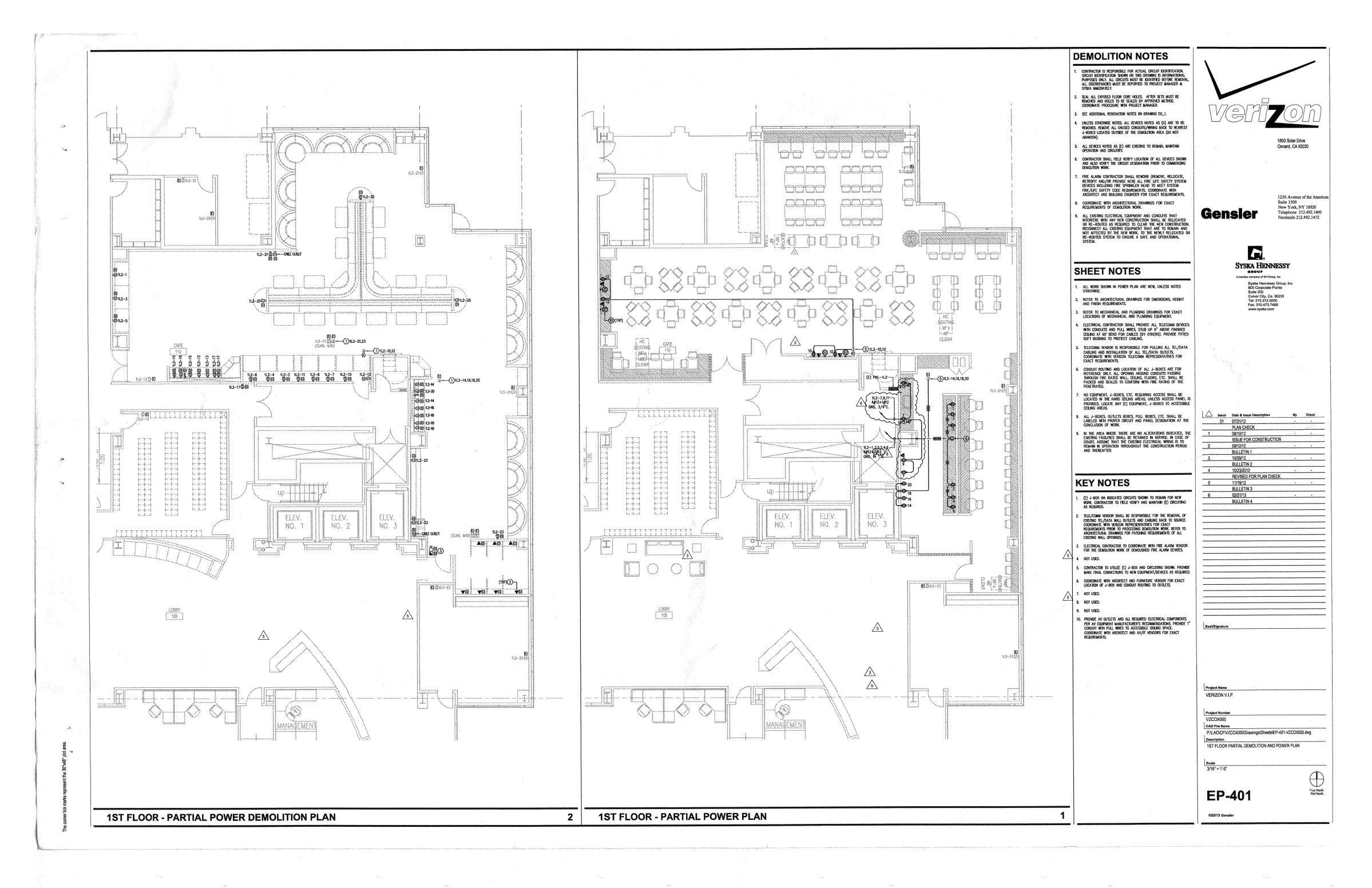
3RD FLOOR PARTIAL LIGHTING DEMOLITION PLAN

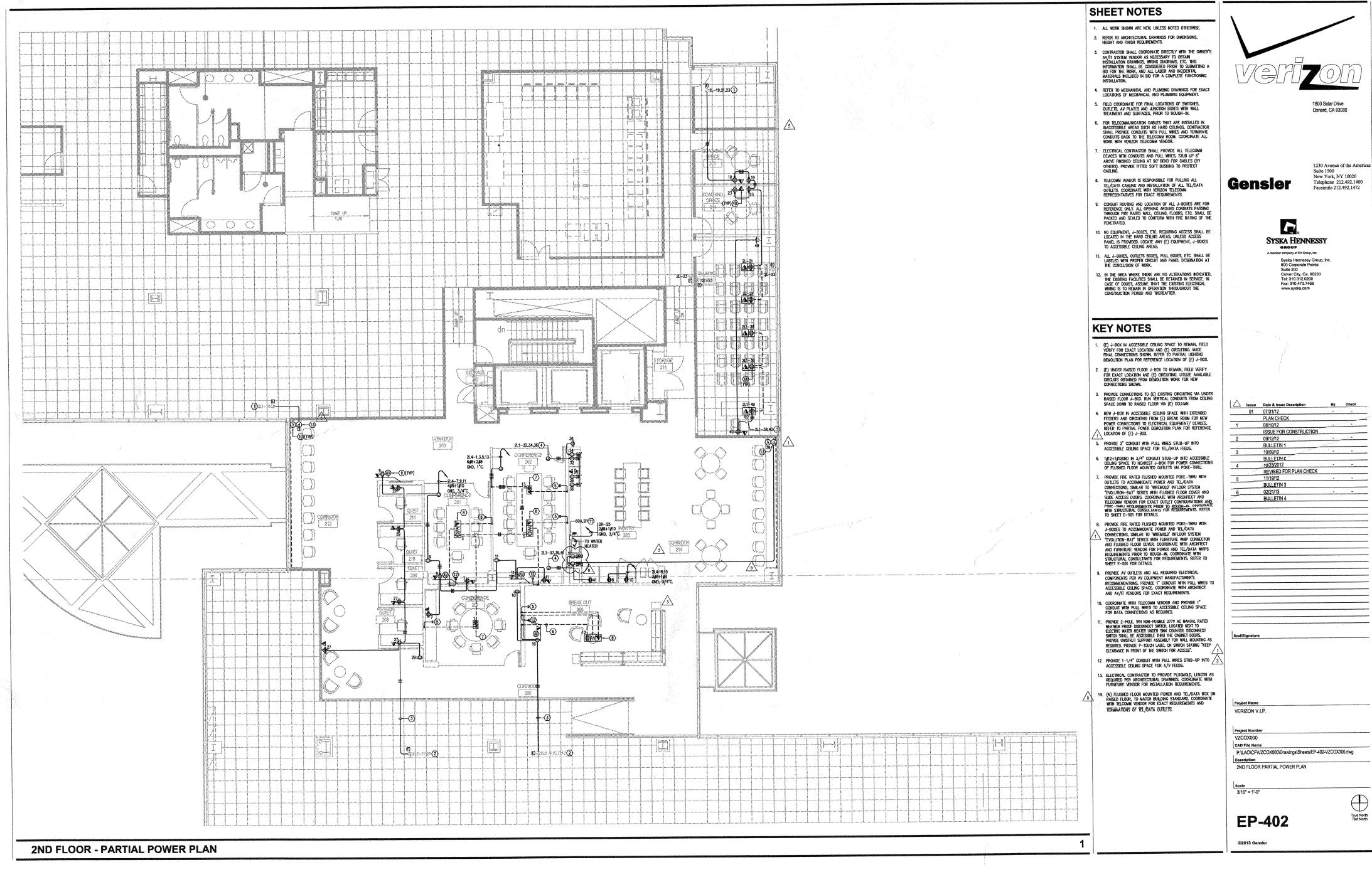
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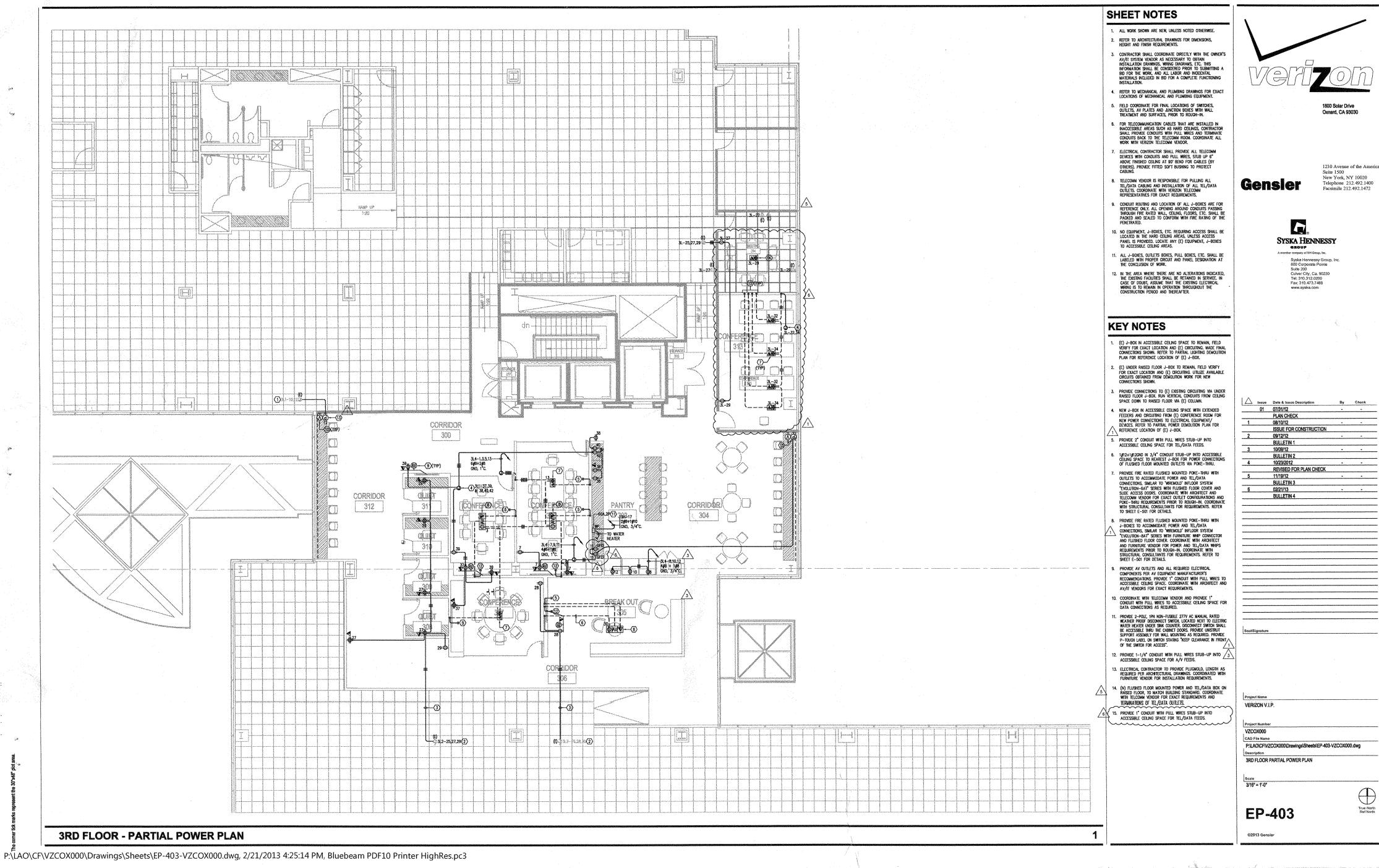
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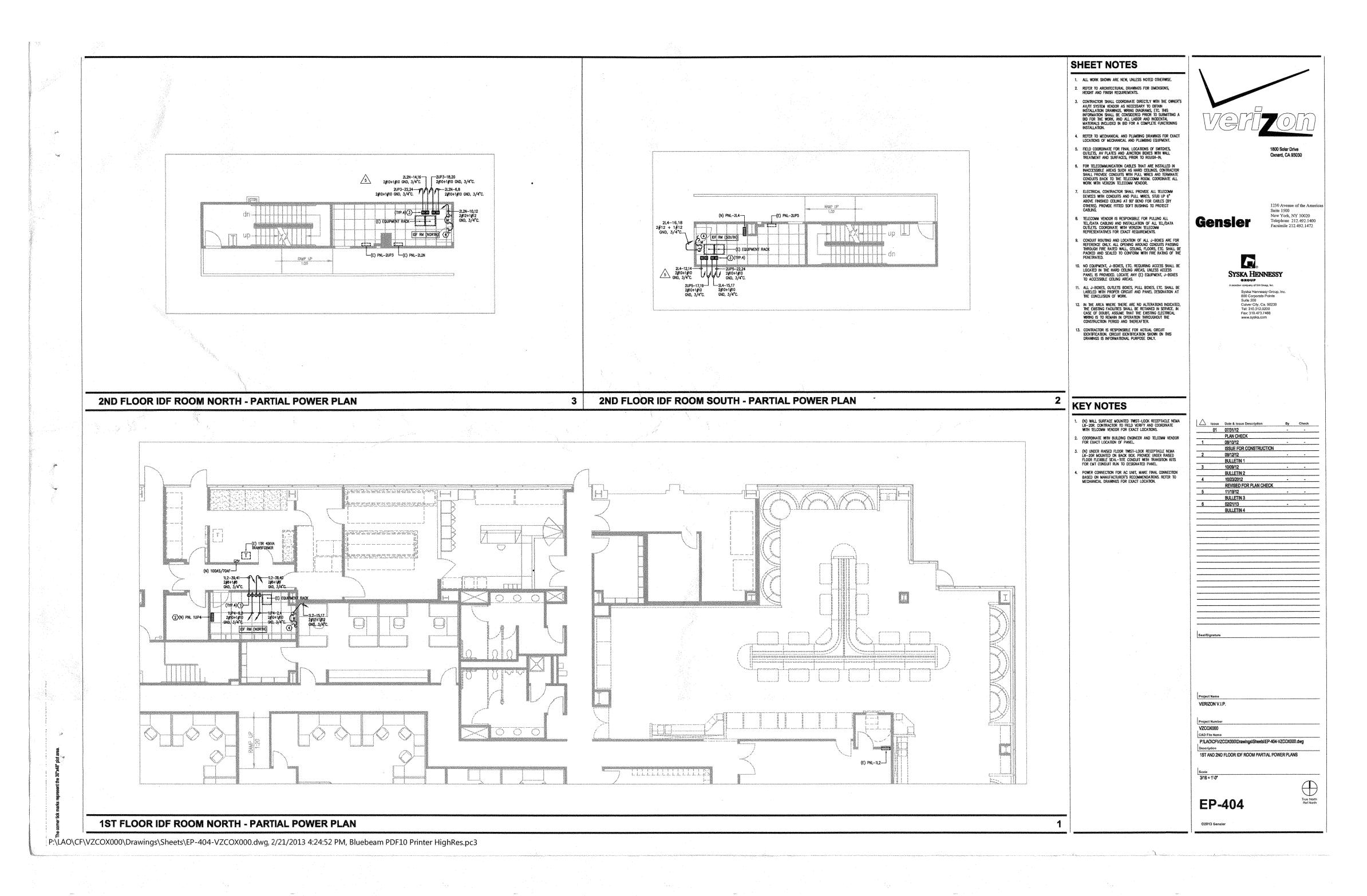


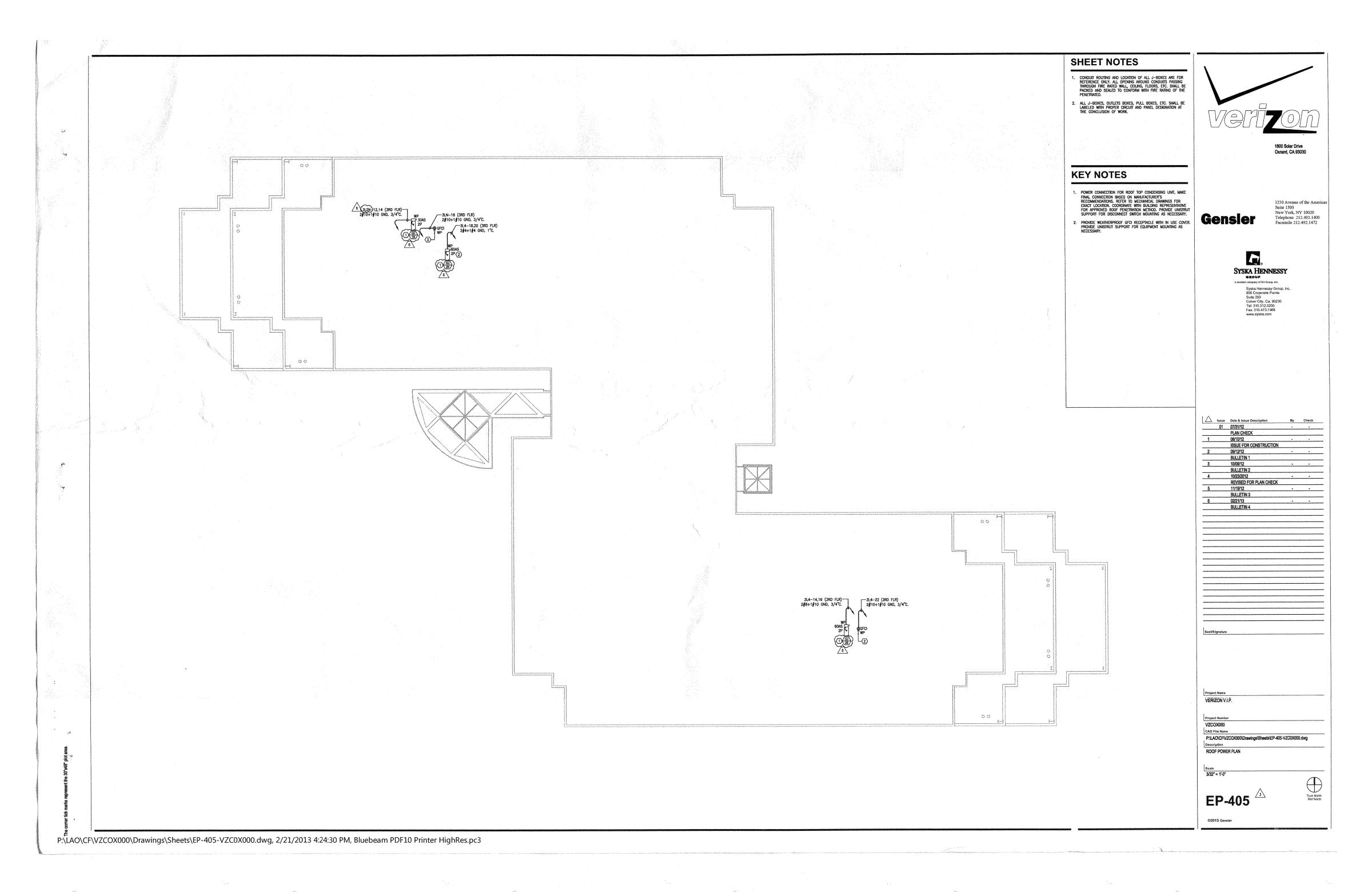
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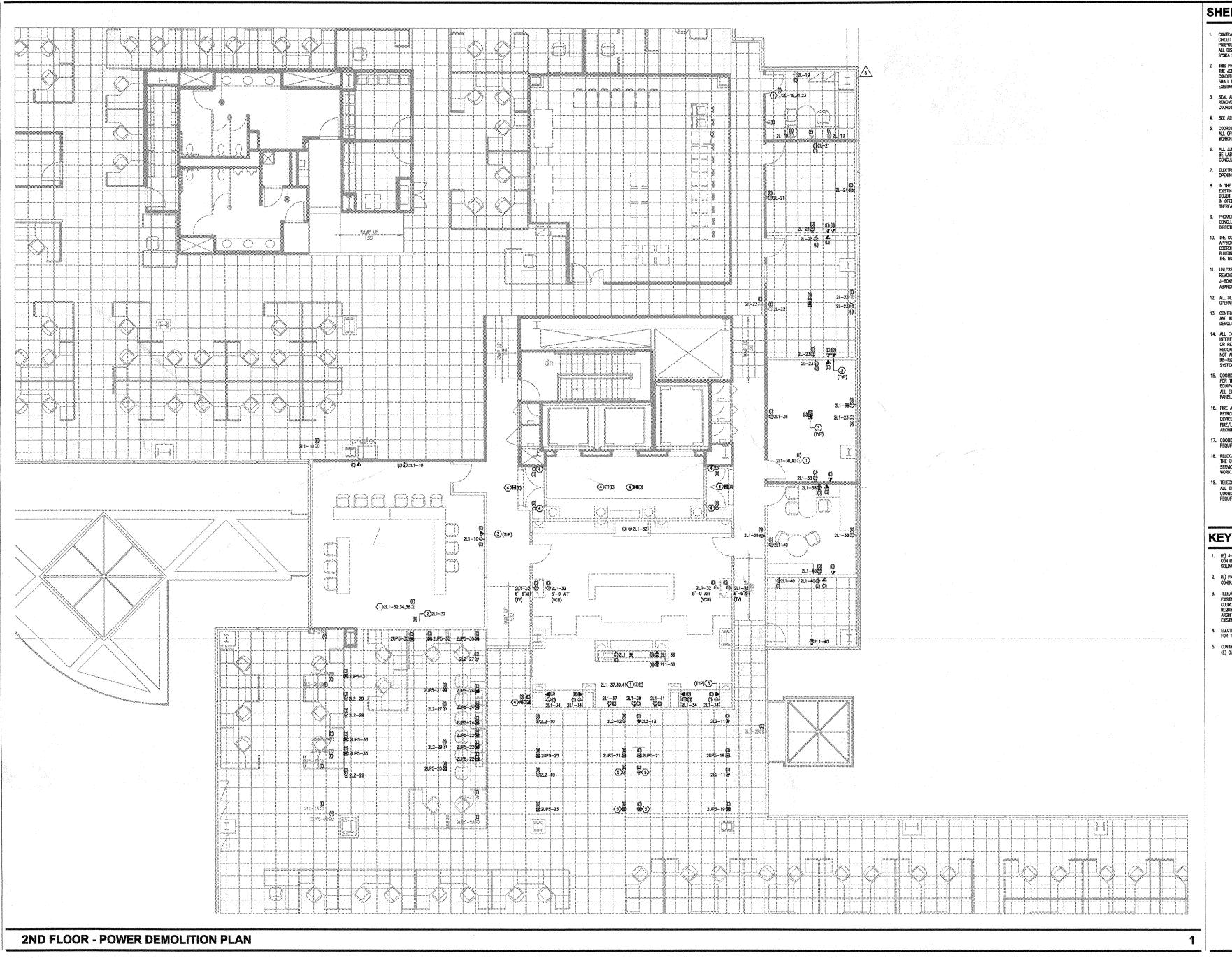
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- SEAL ALL EXPOSED FLOOR CORE HOLES. AFTER SETS MUST BE REMOVED AND HOLES TO BE SEALED BY APPROVED METHOD. COORDINATE PROCEDURE WITH PROJECT MANAGER.
- 4. SEE ADDITIONAL RENOVATION NOTES ON DRAWING ED_1.
- COORDINATE ALL RAISED FLOOR ACTIVITIES WITH BUILDING ENGINEER. ALL OPEN FLOOR TILES IN AREAS WHERE VERIZON EMPLOYEES ARE WORKING MUST HAVE BARRICADES AND WARNING SIGNS.
- . ALL JUNCTION BOXES, OUTLETS BOXES, PULL BOXES AND ETC. SHALL BE LABELED WITH PROPER CIRCUIT AND PANEL DESIGNATION AT THE CONCLUSION OF WORK PER BUILDING STANDARDS.
- ELECTRICAL CONTRACTOR TO PROVIDE COVER PLATES FOR ALL HOLES, OPENING, ETC. TO MATCH EXISTING.
 IN THE AREAS WHERE THERE ARE NO ALTERATIONS INDICATED, THE
- IN THE AREAS WHERE THERE ARE NO ALTERATIONS NOICATED, THE ENSTING FACULTES SHALL BE: RETAINED IN SERVICE. IN CASE OF DOUBT, ASSUME THAT THE EXISTING ELECTRICAL WRING IS TO REMAIN IN OPERATION THROUGHOUT THE CONSTRUCTION PERIOD AND THEREAFTER.
- PROVIDE AS-BUILT PANEL SCHEDULES AND DRAWINGS AT THE CONCLUSION OF WORK. CONTRACTOR SHALL MODIFY THE PANEL DIRECTORIES TO REFLECT THE CHANGES AND MODIFICATIONS.

 10. THE CONTRACTOR IS RESPONSIBLE FOR WRITING AND SECURING APPROVALS FOR ALL CRITICAL WORK RELATED TO UPS POWER. COORDINATE ALL WORK WITH VERIZON PROJECT MANAGER AND BUILDING ENGINEERS SO AS NOT TO BUTTERRUPT THE OPERATIONS O THE BUILDING, WORK HOURS SHALL BE CLOSELY COORDINATED.
- 11. UNLESS OTHERWISE NOTED, ALL DEVICES NOTED AS (D) ARE TO BE REMOVED, REMOVE ALL UNUSED CONDUITS/MIRING BACK TO NEAREST U-BOXES LOCATED OUTSIDE OF THE DEMOLITION AREA (DO NOT
- 12. ALL DEVICES NOTED AS (E) ARE EXISTING TO REMAIN, MAINTAIN OPERATION AND CIRCUITRY.
- CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL DEVICES S AND ALSO VERIFY THE CIRCUIT DESIGNATION PRIOR TO COMMED DEMOLITION WORK.
- 14. ALL EXISTING ELECTRICAL EQUIPMENT AND CONDUITS THAT INTERFERE WITH ANY PIEW CONSTRUCTION SHALL BE RELOCATE OR RE-ROUTED AS REQUIRED TO CLEAR THE NEW CONSTRUCT RECONNECT ALL EXISTING EQUIPMENT THAT ARE TO REMAIN AN NOT AFFECTED BY THE NEW WORK, TO THE NEWLY RELOCATED RE-ROUTED SYSTEM TO ENSURE A SAFE AND OPERATIONAL SYSTEM.
- 15. COORDINATE WITH MECHANICAL AND PLUMBING DEMOLITION PLANS FOR THE REMOVAL OF ALL MECHANICAL AND PLUMBING EQUIPMENT. UNLESS OTHERWISE NOTED, RELD VERTEY AND REMOVE ALL EXISTING ELECTRICAL DEVICES, CONDUITS/WRING BACK TO PANEL LABEL REMOVED CIRCUITS AS SPARES.
- 16. FIRE ALARM CONTRACTOR SHALL REWORK (REMOVE, RELOCATE, RETROFT AND/OR PROVIDE NEW) ALL FIRE LIFE SAFETY SYSTEM DEVICES INCUDING FIRE SPRINKLER HEAD TO MEET SYSTEM FIRE/LIFE SAFETY CODE REQUIREMENTS. COORDINATE WITH ARCHITECT AND BUILDING ENGINEER FOR EXACT REQUIREMENTS.
- 17. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT REQUIREMENTS OF DEMOLITION WORK.
- 18. RELOCATE ALL UNDER RAISED FLOOR J-BOXES TO OUTSIDE OF THE DEMOLITION AREA, MAINTAIN EXISTING CIRCUITING TO EXTEND SERVICE TO NEW EQUIPMENT/DEVICES IN THE VEW AREA OF WORK.
- TELECOMM VENDOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL EXISTING TEL/DATA OUTLETS AND ASSOCIATED CONNECTIONS, COORDINATE WITH VERIZON REPRESENTATIVES FOR EXACT REQUIREMENTS.

KEY NOTES

- (E) J-BOX WA INDICATED CIRCUITS TO REMAIN FOR NEW WORK. CONTRACTOR TO FIELD VERFY AND RELOCATE J-BOX TO ACCESSIBLE CEILING SPACE AS REQUIRED PER NEW CONSTRUCTION PLANS.
- (E) PROJECTION SCREEN TO BE DEMOLISHED, REMOVE ALL ASSOCIATED CONDUITS/WRING BACK TO SOURCE.
- 3. TELE/COMM VENDOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING TEL/DATA WALL OUTLETS AND CABLING BACK TO SOURCE COORDINATE WITH VERZON REPRESENTATIVES FOR EXACT REQUIREMENTS PRIOR TO PROCEEDING DEMOLITION WORK. REFER TO ARCHITECTURAL DRAWNOS FOR PATCHING REQUIREMENTS OF ALL EXISTING WALL OPENINGS.
- FOR THE DEMOLITION WORK OF DEMOLISHED FIRE ALARM DEVICES.
- CONTRACTOR TO FIELD VERIFY AND IDENTIFY (E) CIRCUITING FEEDING (E) OUTLETS PRIOR TO PROCEEDING OF DEMOLITION WORK.



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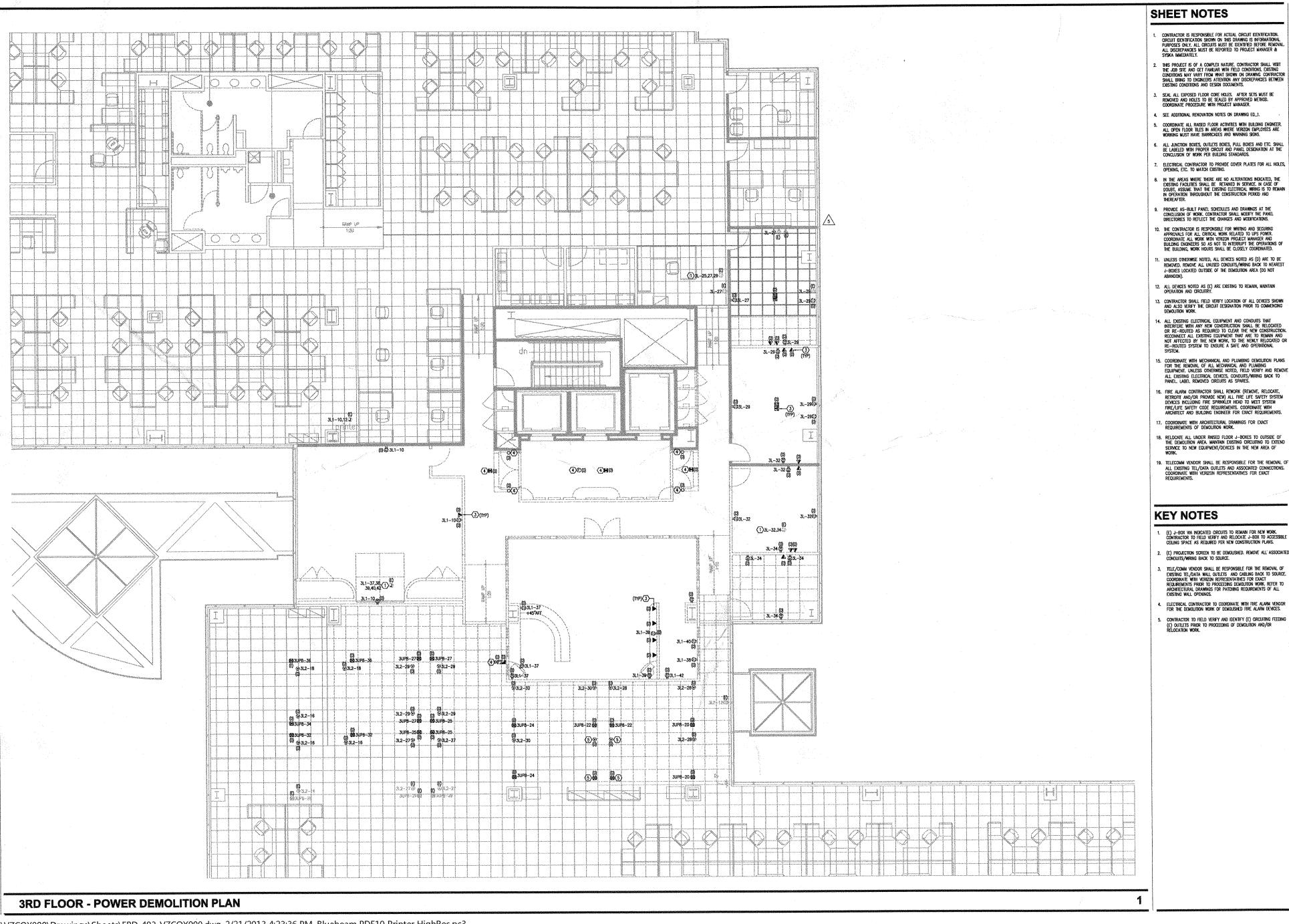
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	BULLETIN 2		
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2ND FLOOR	PARTIAL POWER DEMOLITION PLAN	4	

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- THIS PROJECT IS OF A COMPLEX NATURE. CONTRACTOR SHALL WIST THE JOB SITE AND GET FAMILIAR WITH FIELD CONDITIONS. EXISTING CONDITIONS MAY VARY FROM WHAT SHOWN ON DRAWNIG. CONTRACTOR SHALL BRING TO ENGINEERS ATTENTION MY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DESIGN DOCUMENTS.
- SEAL ALL EXPOSED FLOOR CORE HOLES. AFTER SETS MUST BE REMOVED AND HOLES TO BE SEALED BY APPROVED METHOD, COORDINATE PROCEDURE WITH PROJECT MANAGER.

- ELECTRICAL CONTRACTOR TO PROVIDE COVER PLATES FOR ALL HOLES, OPENING, ETC. TO MATCH EDISTING.
- PROVIDE AS-BUILT PANEL SCHEDULES AND DRAWINGS AT THE CONCLUSION OF WORK, CONTRACTOR SHALL MODIFY THE PANEL DIRECTORIES TO REFLECT THE CHANGES AND MODIFICATIONS.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR WRITING AND SECURING APPROVALS FOR ALL CRITICAL WORK RELATED TO UPS POWER. COORDINATE ALL WORK WITH VERIZON PROJECT MANAGER AND BUILDING ENGHERS SO AS NOT TO INTERRUPT THE OPERATIONS O THE BUILDING, WORK HOURS SHALL BE CLOSELY COORDINATED.
- 11. UNLESS OTHERWISE NOTED, ALL DEVICES NOTED AS (D) ARE TO BE REMOVED, REMOVE ALL UNUSED CONDUITS/WIRING BACK TO NEAREST J-BOXES LOCATED OUTSIDE OF THE DEMOLITION AREA (DO NOT
- 12. ALL DEVICES NOTED AS (E) ARE EXISTING TO REMAIN, MAINTAIN OPERATION AND CIRCUITRY.
- 14. ALL EXISTING ELECTRICAL EQUIPMENT AND CONDUITS THAT INTERFERE WITH ANY NEW CONSTRUCTION SHALL BE RELOCATED OR RE-ROUTED AS REQUIRED TO CLEAR THE NEW CONSTRUCTION. RECONNECT ALL EXISTING EQUIPMENT THAT ARE TO REASAN AND NOT AFFECTED BY THE NEW WORK, TO THE NEWLY RELOCATED OR RE-ROUTED SYSTEM TO ENSURE A SAFE AND OPERATIONAL SYSTEM.
- 15. COORDINATE WITH MECHANICAL AND PLUMBING DEMOLITION PLANS FOR THE REMOVAL OF ALL MECHANICAL AND PLUMBING EQUIPMENT, UNLESS OTHERWISE NOTED, PIEU VERIFY AND REMOVE ALL EXISTING ELECTRICAL DEVICES, CONDUITS/WIRING BACK TO PANEL LABEL REMOVED CIRCUITS AS SPARES.
- 16. FIRE ALARM CONTRACTOR SHALL REWORK (REMOVE, RELOCATE, RETROFIT AND/OR PROVIDE NEW) ALL FIRE LIFE SAFETY SYSTEM DEVICES INCLUDING FIRE SPRINKLER HEAD TO MEET SYSTEM FIRE/LIFE SAFETY CODE REQUIREMENTS. COORDMATE WITH ARCHITECT AND BUILDING ENGINEER FOR EXACT REQUIREMENTS.
- 7. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT REQUIREMENTS OF DEMOLITION WORK.
- 18. RELOCATE ALL UNDER RAISED FLOOR J-BOXES TO OUTSIDE OF THE DEMOLITION AREA. MAINTAIN EXISTING CIRCUITING TO EXTEND SERVICE TO NEW EQUIPMENT/DEVICES IN THE NEW AREA OF WORK.
- TELECOMM VENDOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL EXISTING TEL/DATA OUTLETS AND ASSOCIATED CONNECTIONS. COORDINATE WITH VERIZION REPRESENTATIVES FOR EXACT REQUIREMENTS.

(E) J-BOX MA INDICATED CIRCUITS TO REMAIN FOR NEW WORK. CONTRACTOR TO FIELD VERIFY AND RELOCATE J-BOX TO ACCESSIBLE CEILING SPACE AS REQUIRED PER NEW CONSTRUCTION PLANS.

- I. TELE/COMM VENDOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING TEL/DATA WALL OUTLETS AND CABLING BACK TO SOURCE, COORDINATE WITH VERIZON REPRESENTATIVES FOR EXACT REQUIREMENTS PRIOR TO PROCEEDING DEMOLITION WORK, REFER TO ARCHITECTURAL DRAWNISS FOR PATCHING REQUIREMENTS OF ALL EXISTING WALL OPENINGS.

1800 Solar Drive Oxnard, CA 93030

1230 Avenue of the America Suite 1500 New York, NY 10020 Telephone 212.492.1400 Facsimile 212.492.1472

Gensler

SYSKA HENNESSY

GROUP
A member company of SH Group, Inc. Syska Hennessy Group, Inc. 800 Corporate Pointe Suite 200 Culver City, Ca. 90230 Tel: 310.312.0200 Fax: 310.473.7468 www.syska.com

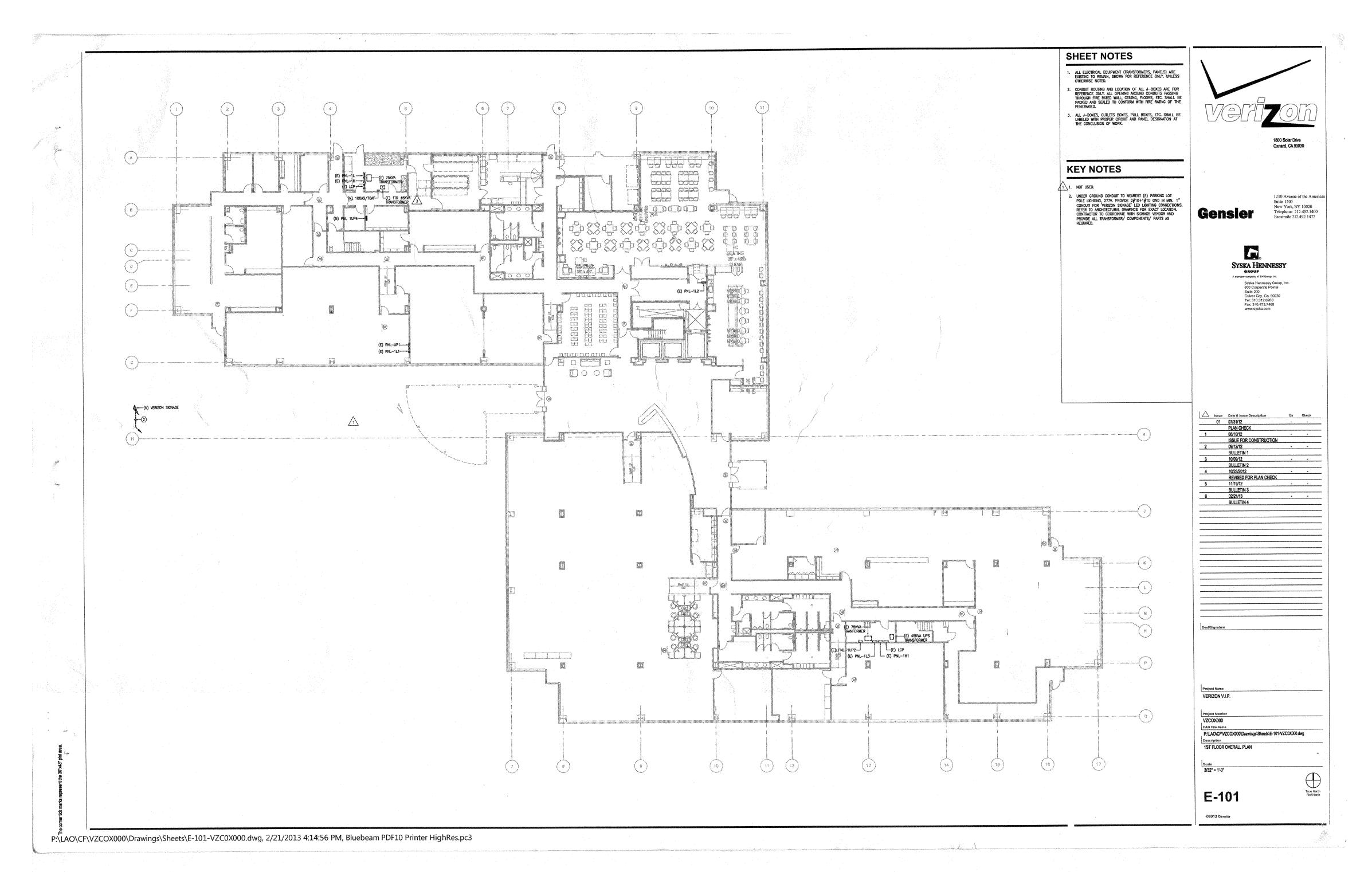
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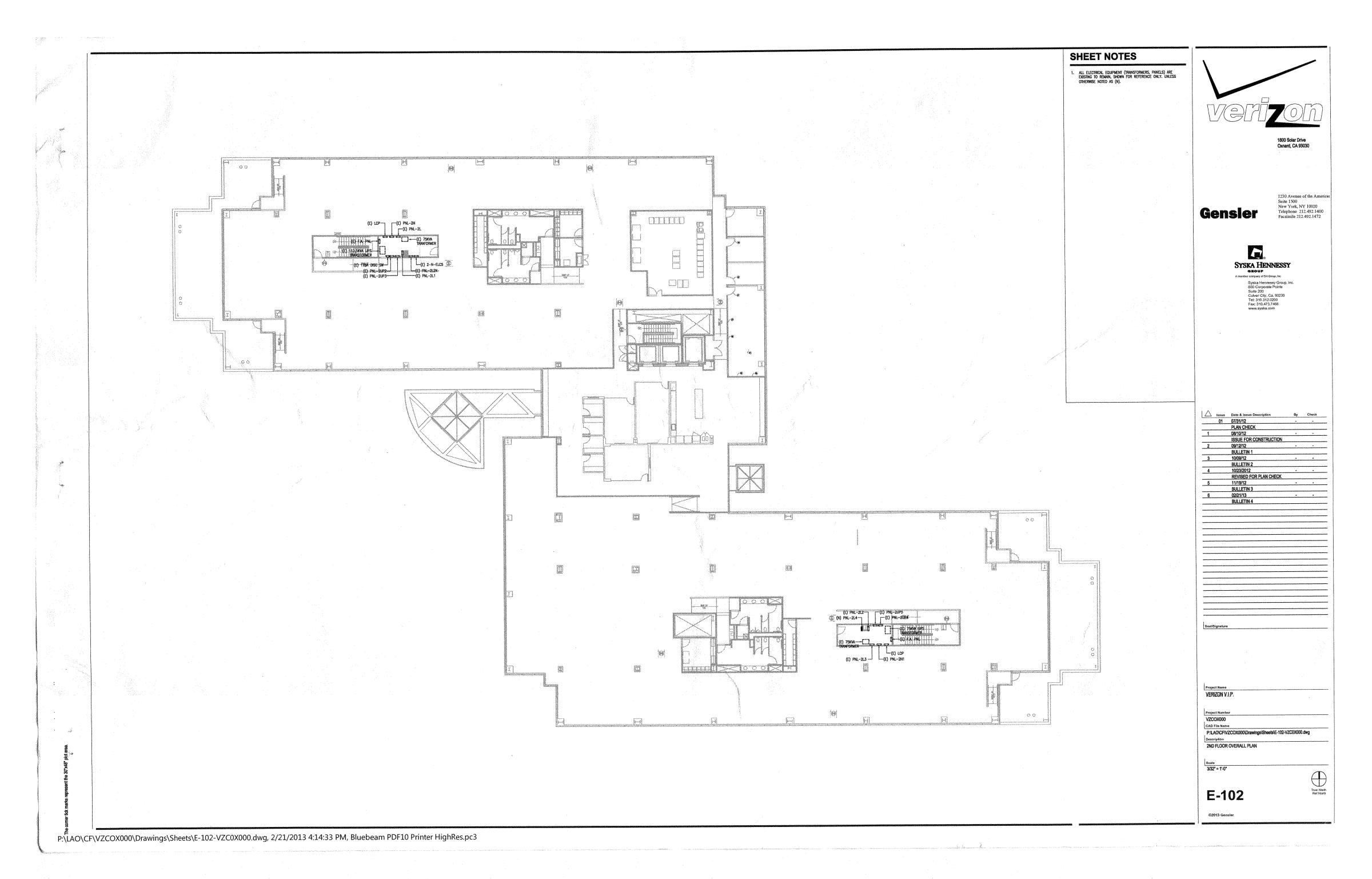
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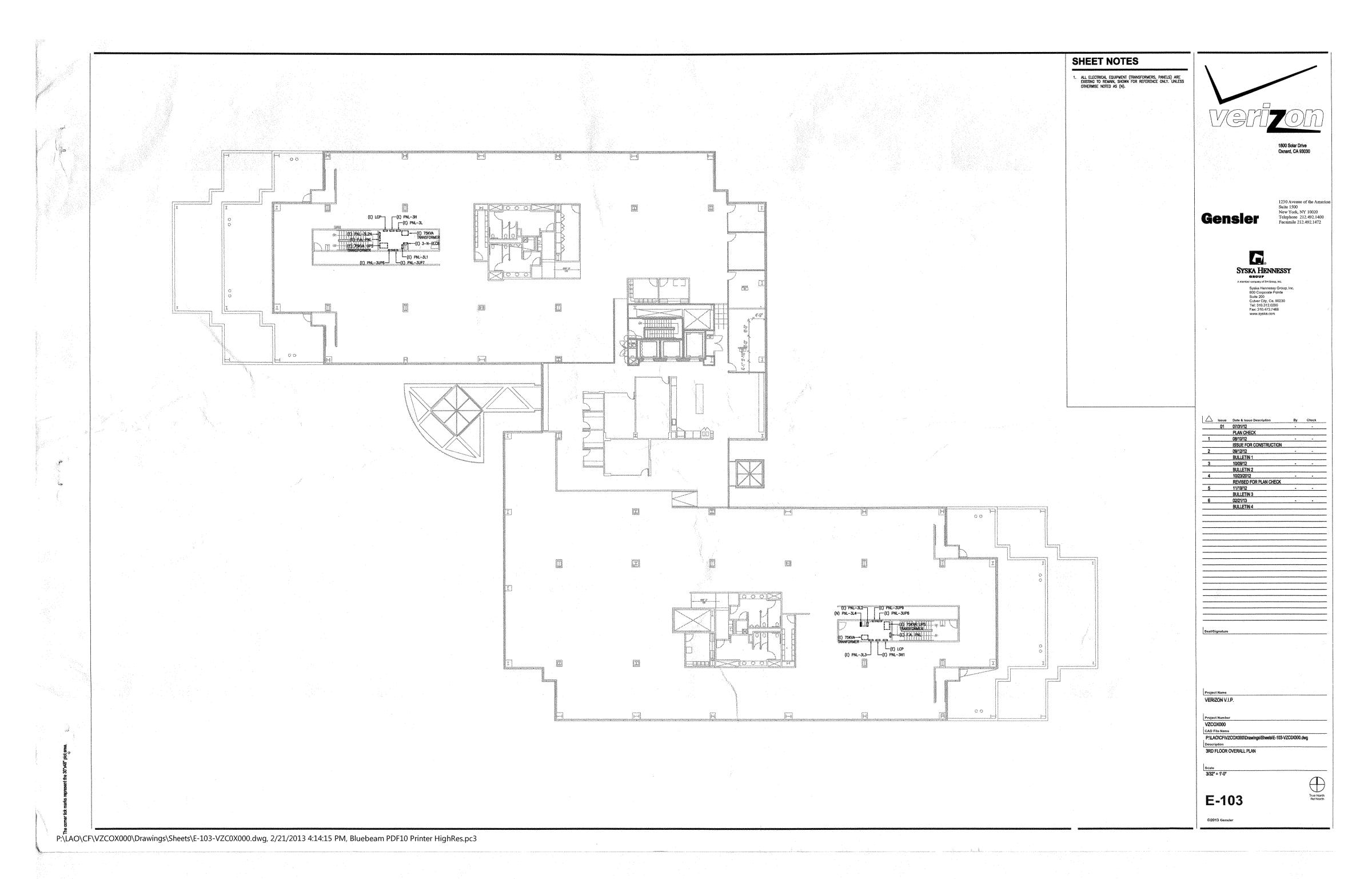
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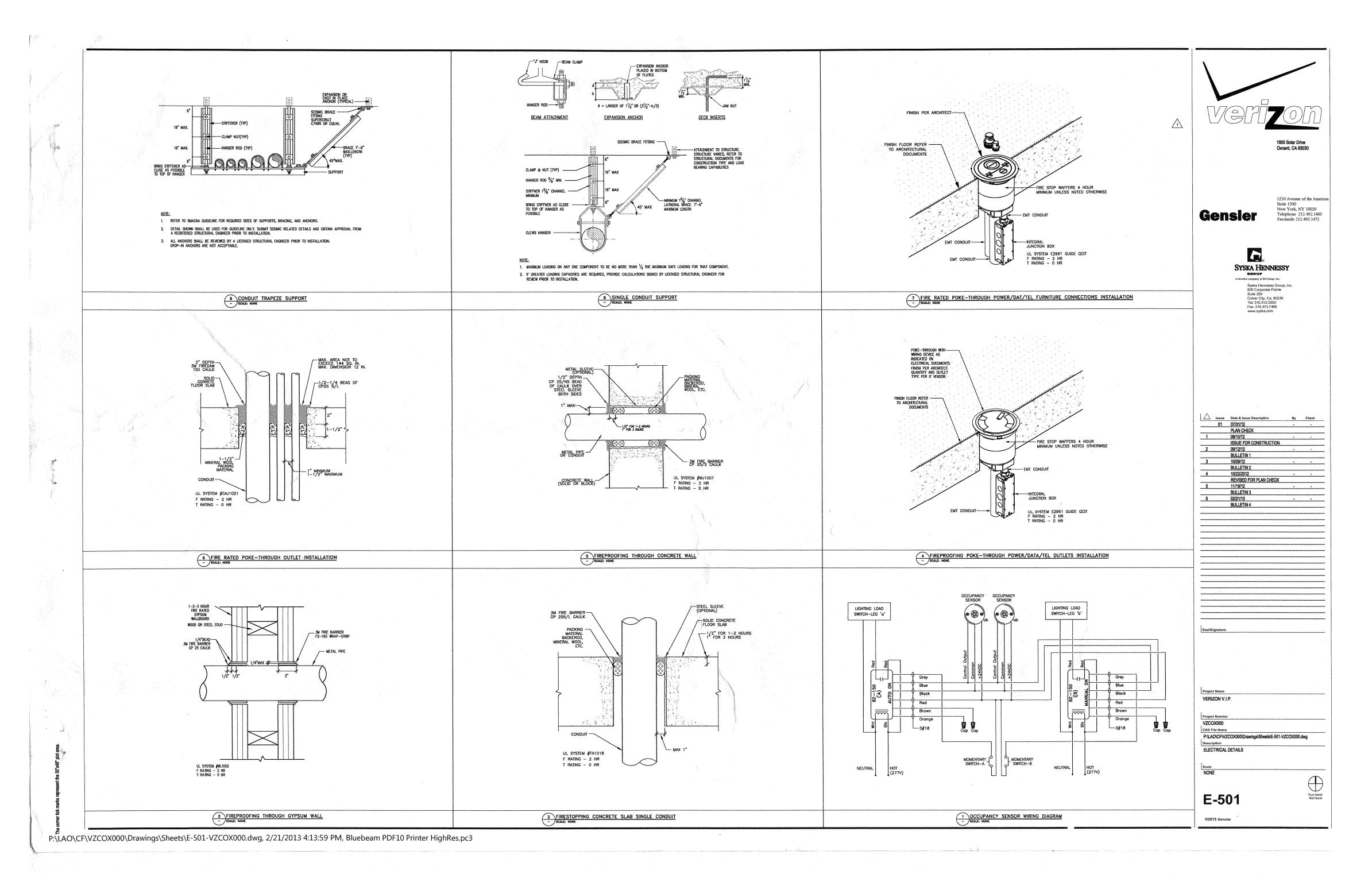
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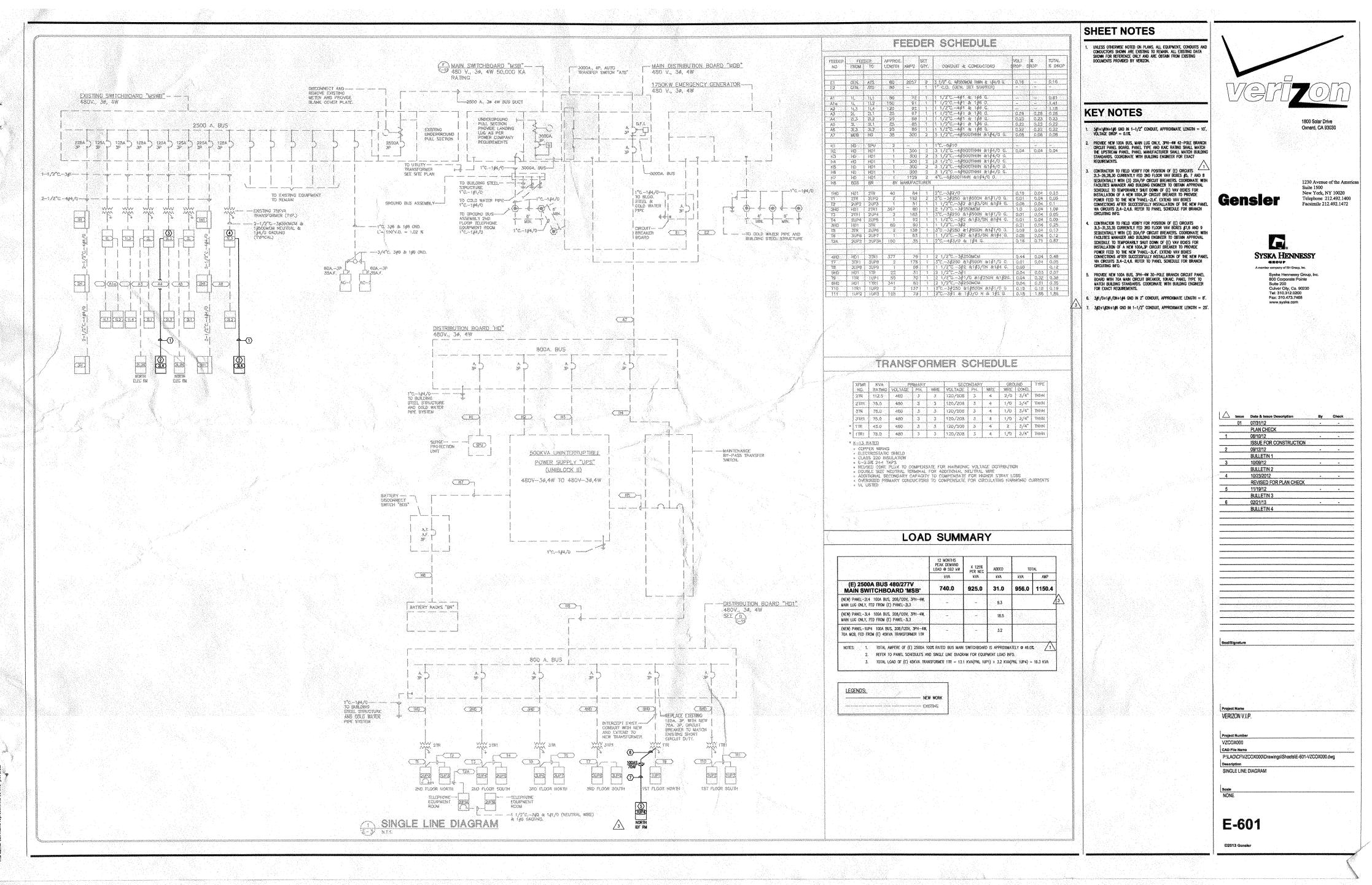
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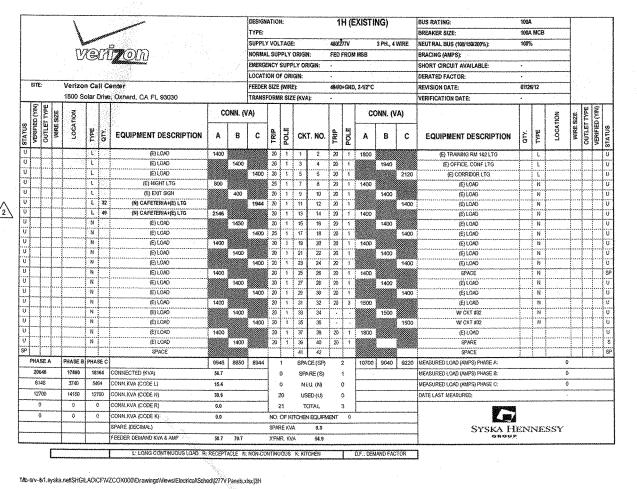








0"x48" plot area



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Gensler	Suite 1500 New York, NY 10020 Telephone 212.492.1400
GCHSICI	Facsimile 212.492.1472
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SYSKA I	HENNESSY
A member compar	ny of SH Group, Inc.
	Hennessy Group, Inc. orporate Pointe
Suite:	
	r City, Ca. 90230 10.312.0200
	10,473,7468

△ Issue Date & Issue Description

BULLETIN 2

REVISED FOR PLAN CHECK 5 11/19/12

BULLETIN 3

BULLETIN 4

ISSUE FOR CONSTRUCTION

01 07/31/12 PLAN CHECK

1 08/10/12

2 09/12/12

3 10/09/12

4 10/23/2012

6 02/21/13

1800 Solar Drive

1230 Avenue of the Americas

DESIGNATION: 2UP5 (EXISTING) verizon BRACING (AMPS): SHORT CIRCUIT AVAILABLE: NORMAL SUPPLY ORIGIN: FED FROM PANEL-2UP4 EMERGENCY SUPPLY ORIGIN: LOCATION OF ORIGIN: FEEDER SIZE (WIRE): 3#2+ 1#3/0N TRANSFORMR SIZE (KVA): 75KVA 3#2+ 1#3/0N+1#4GND,1-1/2°C 1800 Solar Drive, Oxnard, CA FL 93030 CONN. (VA) CONN. (VA) A B C RELIGION OF THE PROPERTY SOLVE STATES OF THE STATES OF 540 540 540 540 (E) WORK STATION (E) EXISTING (E) WORK STATION
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1290 1740 0 CONN.KVA (CODE N) N.I.U. (N) MEASURED LOAD (AMPS) PHASE C: DATE LAST MEASURED: USED (U) 18 TOTAL 21 6600 4980 7280 CONN.KVA (CODE R) SYSKA HENNESSY SPARE (DECIMAL) SPARE KVA 0.0 17.4 48.2 XFMR. KVA 17.4 FEEDER DEMAND KVA & AMP

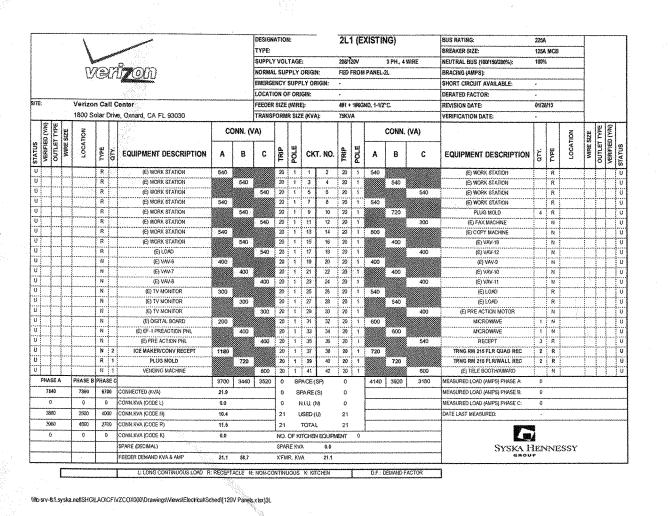
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VERIFIE	Lic	WIRE	7007	TYPE	EQUIPMENT DESCRIPTION	А	В	С	TRIP	POLE	CKT. N	10.	TRIP	POLE	A	В	С	EQUIPMENT DESCRIPTION	QTV.	TYPE	1007	WIRE	OUTL	VERIFIE
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	T	7	1	R	(E) WORK STATION		540		20		3		mi.	1		540		(E) WORK STATION		R			m	
	T	-	1	R	(E) WORK STATION			540	20	1 1.	5	5	20	1			540	(E) WORK STATION	Ī	R				
	1	1	1	R	(E) WORK STATION	540			20	1	7	В	20	1	540			(E) WORK STATION	1	R	*********			
	1	1		R	(E) WORK STATION		540		20	11	9	0	20	1		540		(E) WORK STATION	1	R				
	T	1	1	R	(E) WORK STATION			540	20	11	11	2	20	1			540	(E) WORK STATION		R	***********			
Ĩ			1	R	(E) WORK STATION	540			20	1	13	4	20	1	540			(E) WORK STATION		R	Control of the second			
Ť	T	-	1	R	(E) WORK STATION		540		20	1 1	15	6	20	1		540		(E) WORK STATION	T	R	**********			
	7		1	R	(E) WORK STATION			540	20	1	17	8	20	1			540	(E) WORK STATION		R				
	1			R	(E) WORK STATION	540			20	1	19	0	20	1				SPARE				1		
	7		1	R	(E) WORK STATION		540		20	1	21	2	20	1 3				SPARE	1					
Î	T	1	1	R	(E) WORK STATION			540	20		23 :	14	20	1			l	SPARE	1					
	1				SPARE				20	barrela	mare linear	marita	20	1	540			(E) WORK STATION		R				
Ţ	1				SPARE		Ĭ		20	1	27			1.		540		(E) WORK STATION		R			lj.	
				R	(E) WORK STATION			540	20	1	29	0	20	1			540	(E) WORK STATION		R		1		
	1			R	(E) WORK STATION	540			20	11	31	32	20	1	540			(E) WORK STATION	.l	R		1		
	1	T	1	R	(E) WORK STATION		540		20	11	33	34	20	1		540		(E) WORK STATION		R		1	Li	
T		T	1	R	(E) WORK STATION			540	20	1	35	36	20	1			540	(E) WORK STATION		R			Li	
		1		R	(E) WORK STATION	600	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		20	in a series		·····	70	3	7560			(E) PANEL 3UP0		N		.1		
				R	(E) WORK STATION		600	,	<u></u>			10	-			7200	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	W/ CKT #36		N			ļi.	
				R	(E) WORK STATION			540	20	i i		12		-			4320	WFCKT#38		N			Ш	
PF	(ASE	A	PHASE	BPHASE	C	3300	3300	3780	0	SPA	CE (SP)		0		10280	9900	7020	MEASURED LOAD (AMPS) PHASE A	0		~~~~~~			
	1356	B	13200	1080	CONNECTED (KVA)	37,6			2	SP/	RE(S)		3					MEASURED LOAD (AMPS) PHASE B:	0					
	0		0	0	CONN.KVA (CODE L)	0.0			0	N.	Ų. (N)		0					MEASURED LOAD (AMPS) PHASE C:	0		, 11			
	7560	)	7200	4320	CONN.KVA (CODE N)	19.1			19	US	ED (U)		18					DATE LAST MEASURED.						
	6000	)	6000	6486	CONN.KVA (CODE R)	18,5			21	79	DTAL		21					The second	•					
	0		0	0	CONN.KVA (CODE K)	0.0			NO.	OF KIT	CHEN EC	UIPME	NT	0				Zm.	Ì					
			1	1	SPARE (DECIMAL)				SPA	RE KVA	-	0.0						Syska H	EN	NE	SSY			
			+	+	FEEDER DEMAND KVA & AMP	33,3	92.5		X'FA	IR, KVA	1	3,3				~~~~		GROU	*,					

				4						DESIGN	ATIO	N:		1L2	(EXI	STI	NG)			BUS RATING:	225/	١.					
				1			The state of the s			TYPE:					<b>,</b>		,			BREAKER SIZE:	1000	MCB		٦			
				Į.	NAME OF THE OWNER, OWNE	SECTIONS	<del>y</del>			SUPPLY	VOL	TAGE	;		208/1	20V		3 PH., 4	WIRE	NEUTRAL BUS (100/150/200%):	1009	6					
				T3/	76	raf	izom			NORMA				:	FED	FRO	A PANEL	1L		BRACING (AMPS):				-			
				. L2	C.	uL				EMERGE										SHORT CIRCUIT AVAILABLE:	-			-			
										LOCATI							***************************************		***************************************	DERATED FACTOR:	•			-			
Æ:				Verizo			o ato a			FEEDER					487 4	1860	ND. 1-1/2	"C.		REVISION DATE:	01/2	8/13		-			
P.Sa.							Oxnard, CA FL 93030			TRANS		·			75K\	-				VERIFICATION DATE:				1			
Is	· lu	<u> </u>		1000 0	Ť	7	2 024 1942 021 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1							T	T	T			<del></del>	7	T		+	T _{ij}	TE	•
VEDIEIED IVAN	CHIN ET TVSE	On the last	WIRE SIZE	LOCATION	TYPE	QTY.	EQUIPMENT DESCRIPTION	A	B B	(A) C	TRIP	POLE	ска	r. NO.	TRIP	POLE	A	DNN. (\	C C	EQUIPMENT DESCRIPTION	QTY.	TYPE	LOCATION	WIRE SIZE	OUTLET TYPE	VERIFIED (YNV)	
1	+	+			. 8	++	MICROWAVE	600			30	-		2	: 20	1	600			MICROWAVE	+	К		+	+	+	•
4.	·			*******	K	1	MICROWAVE		600		20	1	3	4	20	1 1	1	600		MICROWAVE	7	K			Ť	***	
1	÷				×	1	MICROWAVE			600	20	1	5	6	20	1			600	MICROWAVE	1	К	***********		1	1	
	-∳-				N		PAY MACHINE/RECEPT	480			20	1	7	8	20	1	800			(E) VENDING MACHINE		N	********		-	1	
r†	÷				N	1	GEN I / II PYMT CTR		624		20	1	9	10	20	1	1	600		TV RECEPT	2	N	********		1		
÷	+				K	1	ICEWATER MACHINE			1000	20	1	11	12	20	1			600	TV RECEPT	2	N			T	1	•
	÷				İN	*****	(E) RECEPT	540			20	1	13	14	20	1	800			COOLER	1	N			1	1	•
Ť	÷	-	.,		N	17	IDF RM AC-IN	`	100		15	2	15	16	20	11	****	800	7	COOLER	1	N		T	T	1	
<u>ئ</u>	- ģ	4	****		N	1	W/ CKT #15			100		1	17	18	20	11			800	COOLER	1	N			1	1	
Ť	7			*******	····	·	SPARE	.1696960900			20	1	19	20	20	1	600			COFFEE MACHINE	1	Ж			I	1	
ïŀ	÷				R	·	(E) LUNCH RM RECEPT	·	540	****	20	1	21	22	30	. 2	``	1000		(E) XEROX MACHINE		N			1	Ĭ	
ï	7				R	· •	(E) LUNCH RMAJIS, RECEPT			540	20	1	23	24	1	1			1000	W/ CKT #22		N			I	L	
Ť	+	Ť	~~~		-	1-	SPARE	,,000,000,000			20	1	25	26	20	1	400			(E) EF-4		N			L.,	1	
ij"				,	N	1	(E) ATM RECEPT		800		20	1	27	28	20	11		400		(E) VAV-4, VAV-5		H			1	J	
Ť	7	1			M	1	(E) ATM RECEPT			800	20	1	29	30	20	1			600	(E) VAV-7, VAV-8, VAV-9		N		j	1	l.	
Ĩ	7	7	~~~		N	1	(E) HP-1	900			20	2	31	32	20	1	540			(E) LOAD		R			1	.l	
ïŢ	7				N	1	W/ CKT #31		900				33	34	20	1		540		(E) LOAD		R			L	j.	
	7		******		-		SPACE						35	36	20	1 1			540	(E) LOAD		R			.l	.l	
ï	1				R	T	(E) LOAD	540			20	1	37	38	20	2	1200			IDF RM L-20 RECEPT	1	R	İ			į.,,	
ij	1				R	1	IDF RM L-26 RECEPT		1200		20	2	39	40	1 -	1		1200		W/ CKT #38		R	ļ 	ļ	ļ	. į	
ij	1				R		W/ CKT#39			1200		<u> </u>	41	42	20	11			540	(E) LOAD		∫ R	<u> </u>		1	i	
PI	IAS	EΑ		PHASE I	PH	ase c		3080	4764	4240	1	S	PACE (	SP)	0		4940	5140	4680	MEASURED LOAD (AMPS) PHASE A:	0						
	800	0		9994		920	CONNECTED (KVA)	26.8			2	5	PARE	(S)	Đ					MEASURED LOAD (ANIPS) PHASE B:	0						
	0							0.0			0		NLU. (I	N)	0					MEASURED LOAD (AMPS) PHASE C:	0	~~~~					
	392	0		5224	T	900	CONN.KVA (CODE N)	13.0			18		USED (	U)	21					DAYE LAST MEASURED:	,						
	228	0		3480	T	820	CONN,KVA (CODE R)	8.6			21		TOTAL	L	21					100	l						
	180	Q		1200	1	200	CONN.KVA (CODE K)	5.2			NO.	OF K	TCHEN	EQUIPM	ENT	0											
•				1	1		SPARE (DECIMAL)				SPA	RE KV	Ą	0.0						SYSKA H	EN	NE:	SSY				
	FEEDER DEMAND KVA & AMP 24.										XFN	IR. KV	A	24.7			~			GROUP							

litic srv-fs1.syska.nefiSHGl(AOICFIVZCOX000IOrawingsIViewsIElectricaliSchedl(277V Panels.xlsx)3H

Project Name
 VERIZÔN V.I.P.
Project Number
VZCOX000
CAD File Name
P:\LAO\CF\VZCOX000\Drawings\Sheets\E-701-VZCOX000.dwg
Description
PANEL SCHEDULES
·
Scale
NONE
F-701



2L4 (NEW)

EMERGENCY SUPPLY ORIGIN:

LOCATION OF ORIGIN:

FEEDER, SIZE (MRE):

CONN. (VA)

L'LONG CONTINUOUS LOAD R' RECEPTACLE. N' NON-CONTINUOUS. K'. KITCHEN D.F.: DEMAND FACTOR

TRANSFORMR SIZE (KVA):

A B C EQUIPMENT DESCRIPTION A B C EQUIPMENT DESCRIPTION & E

SPARE (S)

N.LU. (N)

USED (U)

SPARE KVA 0,0

BUS RATING: BREAKER SIZE:

SHORT CIRCUIT AVAILABLE

VAV-13 VAV-14

VENDING MACHINE REFRIGERATOR

IDF RM L-20 RECEPT

DATE LAST MEASURED:

DERATED FACTOR:

3 PH., 4 WIRE NEUTRAL BUS (199/159/200%):

CONN. (VA)

400 400 400 600

				1		NEW TOTAL	SECOND CONTRACTOR OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPE			DESIGN TYPE:				2L2 (	208/1		G)	2011		BREAKER SIZE:	225A 100A 100%	мсв		1		
				737	7/2\ 7/2\	mi				SUPPL						-	041197	3 PH., 4		NEUTRAL BUS (100/150/200%):				-		
				13	(3	$L \cap L$	i on			NORMA					FED	ROM	PANEL	25.3		BRACING (AMPS):				-		
							According to			EMERG				RIGH:	•					disper onioser reresions.	•			4		3
										LOCAT				~~~~			,			DERATED FACTOR:	•			-	÷	
TE:				erizo						PEEDER	~~~~				4#1 1	1#6G	ND, 1-1/2	*C.		REVISION DATE:	10/09	¥12		1		
			1.	800 S	olar I	Orive	, Oxnard, CA FL 93030			TRANS	FORM	R SIZ	E (KV	A):	75K\	A				VERIFICATION DATE:		,				
0	VERIFIED (Y/N)	ET TYPE	IL SIEE	ATION		***************************************		CC	ONN. (\	(A)							C	ONN. (\	/A)				LOCATION	SIZE		VERIFIED (Y/N)
201410	VER	OUTLET	R   (E) WORKSTAT     R   (E) WORKSTAT     R   (E) WORKSTAT     R   (E) WORKSTAT     R   (E) WORKSTAT     R   (E) WORKSTAT     R   (E) WORKSTAT     R   (E) WORKSTAT     R   (E) WORKSTAT     R   (E) WORKSTAT     R   (E) WORKSTAT     R   (E) WORKSTAT     R   (E) WORKSTAT     R   (E) WORKSTAT     R   (E) WORKSTAT     R   (E) WORKSTAT     R   (E) WORKSTAT     R   (E) WORKSTAT     R   (E) WORKSTAT     R   (E) WORKSTAT     R   (E) WORKSTAT     R   (E) WORKSTAT				EQUIPMENT DESCRIPTION	A	В	С	TRIP	POLE	CH	CT. NO.	TRIP	POLE	Α	8	С	EQUIPMENT DESCRIPTION	QT.	TYPE	9	WRE	ouner	VERIFIED
1	+	1	1		R		(E) WORKSTATION	540			20	1	1	2	20	1	540			(E) WORKSTATION	1	R		1		
T	7			*****	R		(E) WORKSTATION		540		20	1	3	4	20	1		540		(E) WORKSTATION		R		1		
,	1	1	T		R		(E) WORKSTATION			540	20	1	5	6	20	1			540	(E) WORKSTATION	-	R				
1		7			Ŕ		(E) WORKSTATION	540			20	1	7	8	20	1	540			(E) WORKSTATION		R				
ij	7				R		(E) WORKSTATION		540		20	1	9	10	20	1		360		RECEPT	2	R		T		
ij		····[	7		R		(E) WORKSTATION			540	20	1	11	12	20	1			360	FLR RECEPT	2	R	********			
Ţ	T		Ť		R	П	(E) WORKSTATION	540			20	11	13	14	20	1	540	****		(E) WORKSTATION	1	R		T		
ï	1	1		,,			(E) WORKSTATION		540		20	1	15	16	20	11		540		(E) WORKSTATION		R		T	П	Ĺ
ij		1	-				(E) WORKSTATION			540	20	1	17	18	20	1			540	(E) WORKSTATION		R				
ij	1		1	.~20000000	R		(E) WORKSTATION	540			20	1	19	20	20	1	540			(E) WORKSTATION	I	R		1	$\prod$	
ï	1		7		R		(E) WORKSTATION		540		20	1	21	22	20	1		540		(E) WORKSTATION		R				
V	1		7		R		(E) WORKSTATION			540	20	1	23	24	20	1			300	(E) TV MONITOR	Ī	N		]	LJ	
ïį		1	7		R		(E) WORKSTATION	540			20	11	25	26	20	1	540			(E) WORKSTATION	L	R		1	L	
ï		1	1		R	6	RECEPT		1080		20	1	27	28	20	1		540		(E) WORKSTATION	<u> </u>	R			11	
Ü			1	*******	R	5	RECEPT			900	20	1	29	30	20	1			540	(E) WORKSTATION	Ĭ	R				
ij	1		7		N		(E) PRIMITURE	400			\$ 20	1	31	32	20	1	400			(E) PRIMITURE		N				Ĺ
J.	T		1		N		(E) PRIMITURE		400		20	11	33	34	20	1		400		(E) PRIMITURE		N		1	IJ	Ĺ.,
ĵ		-		*******	N		(E) TV MONITOR			300	20	1	35	36	20	1			300	(E) TV MONITOR		N		1		
ij					N		(E) VAV-5	400			20	] 1	37	38	20	1	400			(E) VAV-1	1	N				
ĵ			T	,,,,,,,,,,,,,	N		(E) VAV-4		400		20	1	38	43	20			400		(E) VAV-2	[	N				Ĺ
J	[		1		N		(E) VAV-3			400	20	1	41	42	20	1 1			400	(E) VAV-15	<u></u>	N			L	<u>.</u>
F	HAS	εA	P	HASE B	PHA:	SE C		3500	4040	3760	0	SF	ACE	(SP)	0		3500	3320	2980	MEASURED LOAD (AMPS) PHASE A	0					
	700	0	T	7360	67	40	CONNECTED (KVA)	21.1			0	s	PARE	(S)	0					MEASURED LOAD (AMPS) PHASE B:	0					
_	Û		T	0	0		CONN.KVA (CODE L)	0.0			0	- (	N.I.O.	(N)	0					MEASURED LOAD (AMPS) PHASE C:	0					
	180	0	T	1600	17	00	CONN.KVA (CODE N)	4.9			21	1	JSEO	(U)	21					DATE LAST MEASURED:	-					
	540	0	+	5760	50	40	CONN.KVA (CODE R)	16.2			21		TOTA	N.	21					2007000						
	0		+	0	-	,	CONN.KVA (CODE K)	0.0		*****	NO.	OF K	TCHE	EN EQUIPA	NEW	0		***************************************			4					
			+		+		SPARE (DECIMAL)				SPA	RE KV	À	0.0					~~~~	Syska I	m Erra	GNEC	reev			
			+		†		FEEDER DEMAND KVA & AMP	18.0	50.0		XF	AR. KV	íA.	18.0						913KA 1		****	14.71.3 L			
-								1017												<u></u>						-

			١						DESIGN	ATION	ł;		2L3 (	EXIS	TIN	IG)			BUS RATING:	400A			T		
			. 1		_64	Market Market Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control			TYPE:										BREAKER SIZE:	3004	MCB				
			. 1	STATE OF THE PARTY.	Name of Street	_			SUPPLY	VOL	TAGE:			208/1	20V		3 PH., 4	WIRE	NEUTRAL BUS (100/150/200%):	100%	9	00,720	7		
			· W	19	Ŕ				NORMA	LSUP	PLY C	RIGH	l;	FED	FRON	(E) XFM	ER		BRACING (AMPS):				7		
			L/	9	11.				EMERGI	NCY	SUPP	LYOR	IGIN:	•		.,			SHORT CIRCUIT AVAILABLE:	_			1		
									LOCAT	ON O	FORI	HN:		•			~		DERATED FACTOR:	•			7		
Œ:			Verizo	n Cal	) Ce	ontar			FEEDER	SIZE	WIRE	3;		3#35	MCM	+1#500M	M N+18	40 GND, 2	REVISION DATE:	87/2	112		1		
						, Oxnard, CA FL 93030			TRANS				ì	75%	A				VERIFICATION DATE:			*********	1		
VERIFIED (YM)	OUTLET TYPE	ESIZE	LOCATION		П		C	ONN. (	/A)							C	ONN. (	VA)		T.		LOCATION	WRE SIZE	OUTLET TYPE	VERIFIED (YAN)
VERIFIE	OUT	WARE	707	TYPE	aTY.	EQUIPMENT DESCRIPTION	Α	В	С	TRIP	POLE	СК	T. NO.	TRIP	POLE	·A	В	C	EQUIPMENT DESCRIPTION	ΔTV	TYPE	ŏ	W	DOUT.	VER
+	+	+-	<del> </del>	R	-	(E) LOAD	540			20	1	1	2	20	1	540			(E) WORK STATION	+	R				
1	+-	+-	<u> </u>	R	+	(E) LOAD		540		20	17	3	4	20	1	<b>****</b>	540	****	(E) WORK STATION		R		1		
	÷-		<u></u>	R		(E) LOAD			380	20	1	5	ő	20	1			540	(E) WORK STATION		R		1	111	
ΤŤ	- <u>†</u>		<u> </u>	R		(E) WORK STATION	540			20	1	7	8	20	1	540			(E) WORK STATION	1	R		1	m	
7†"		·	ļ	R		(E) WORK STATION		540	***	20	1	9	10	20	1		540	*****	(E) WORK STATION		R	********			
ïŤ	~j···	·	1	R		(E) WORK STATION			540	20	11	11	12	20	1			540	(E) WORK STATION	1	R				
ĩ†		+	ļ	R		(E) WORK STATION	540			20	1	13	14	20	1	540			(E) WORK STATION		R				
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j i	**		Ť	R		(E) WORK STATION			540	20	1	17	18	20	1			540	(E) WORK STATION		R				
ŭ.	7			R	-	(E) WORK STATION	540			20	1	19	26	20	1	540			(E) WORK STATION	1	R				
υ i	1		<u> </u>	N		(E) PRIMITURE	***	400	****	20	1	21	22	20	1		540		(E) WORK STATION	J	R				
ű i	1		·	N		(E) PRIMITURE			400	20	1	23	24	20	1			300	(E) DIGITAL BOARD		N				
u į	7	···	**********	N		(E) PANEL 2L5	1120			70	3	25	26	100	3	2260			(N) PANEL 2L4	1	N			LI	
Ü	**	-	1	N	m			1120			T	27	28		П		2460				N		1		
υ'n	1	-	Ì	N	U	<b>\</b>			400	1	11	29	30	. ↓	Į.			1840	¥	1	N			11	
i i	1			N		(E) VAV-13	400			20	1 1	31	32	20	1	300	, 3000		(E) TV MONITOR		N	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		<u>  i</u>	
ΨŢ	1	1	1	N	П	(E) VAV-12		400		20	11	33	34	20	1 1		300		(E) TV MONITOR	Ì	N	*******		ļļ	
U	Ī			N		(E) VAV-14			800	30	2	35	36	20	. 1			300	(E) EF-2		R			ļ;	
Ü	1			N		↓	800			1	11	37	38	100	] 3	7000			(E) PANEL 2L2		N			4.4	
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U		1		N		(E) FAX MACHINE			400	20	<u></u>	·	42	1	1.	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<b>, , , , , , , , , , , , , , , , , , , </b>	6920	<u> </u>	1 1	И			1 1	
SE A	١		PHASE E	HASE	C		4480	4140	3440	0	SF	ACE	(SP)	O		11720	1206	10980	<u> </u>	0					
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	0		0	1		CONN.KVA (CODE L)	Ø.0			0	3	N.I.U.	(N)	0					MEASURED LOAD (AMPS) PHASE C:	0					_
	1188	9	12420	110	60	CONN.KVA (CODE N)	35.4			21	ŧ	JSED	(U)	21		L			DATE LAST MEASURED:						
	4320	}	3780	33	60	CONN.KVA (CODE R)	11,5			21		TOTA	\L	21						•					
	0		0	1	,	CONN.KVA (CODE K)	0.0			NO.	OF KI	TCHE	N EQUIPA	AENT	0				Z.E	Á					
			1	+	_	SPARE (DECIMAL)				SPA	RE KV	A	0.0						Syska I		NE.	SSY			
			1	+-	-	FEEDER DEMAND KVA & AMP	46.1	127.9		XFI	R. KV	A	46,1						duon		e				
									E NON-C							D.F.: DE	MAND FA	icros	1 3904	<b>,</b>	********				****************

1800 Solar Drive Oxnard, CA 93030

Gensler

1230 Avenue of the America Suite 1500 New York, NY 10020 Telephone 212.492.1400 Facsimile 212.492.1472

D. SYSKA HENNESSY
GROUP
A mamber company of SH Group, Inc.

Syska Hennessy Group, Inc. 800 Corporate Pointe Suite 200 Culver City, Ca. 90230 Tel: 310.312.0200 Fax: 310.473.7488 www.syska.com

tssue Date & Issue Description 01 07/31/12 PLAN CHECK 1 08/10/12 ISSUE FOR CONSTRUCTION 2 09/12/12 BULLETIN 1 3 10/09/12 BULLETIN 2 <u>4 10/23/2012</u> REVISED FOR PLAN CHECK 5 11/19/12 BULLETIN 3
6 02/21/13

Project Name VERIZON V.I.P.

Project Number VZCOX000

P:\LAO\CF\VZCOX000\Drawings\Sheets\E-702-VZCOX000.dwg PANEL SCHEDULES

E-702

"lift:-srv-fs1.syska.nef(SHG/LAO)CF\VZCOX000\Drawings\Views\Electricaf\Sched\[120V Panels.x\bx]3L

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				TV.		Ĭ <b>₩</b> OM			NORMA	L SUI	PLY	ORIGIN	i;	FED I	ROM	(E) XFM	ER	185	BRACING (AMPS):		-		1		
				w	ا المادت	Minister Co. C.			EMERGE	NCY	SUPP	LY OR	GIN:			-		Ŷ	SHORT CIRCUIT AVAILABLE:				1		
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SITE:				Verizo	Call C	enter			FEEDER	SIZE	WIRE	E)k		3#350	MCM+	1#500MC	M N+1#4	O GND.	REVISION DATE:	92/2	V13				
						e, Oxnard, CA FL 93030			TRANSI				}:	75KV	A		7		VERIFICATION DATE:				١		
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STATUS	מבאוגובה ( זוע)	OUTLET TYPE	WIRESIZE	LOCATION	TYPE OTY.	EQUIPMENT DESCRIPTION	А	В	С	TRIP	POLE	СК	r. NO.	TRIP	POLE	A	В	С	EQUIPMENT DESCRIPTION	OTY.	1YPE	LOCATION	WIRE SIZE	OUTLET TYPE	STATUS
U :	+	-			R	(E) EXISTING	540			20	1	77	2	20	1	540			(E) LOAD	1	R				U
U					R	(E)VIOEO LAB RECEPT		540		20		3	4	20	1		. 540		(E) LOAD	-	R				υ
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ű	*			**********	R	(E) LOAD	540			20	1	7	8	20	1	540			(E) LOAD	· · · · ·	R	********	1	1	Ţΰ
Ü	1		-		N	(E) PRIMITURE		400		20	1	9	10	20	1		540		(E) LOAD	ļ	R	*********			<u> </u> -u
U					R	(E)VIDEO LAB RECEPT			540	20	1	11	12	20	1			540	(E) LOAD	1	R			-i	U
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U	**			*********	R	(E) WORK STATION			540	20	1	23	24	20	1			540	(E) WORK STATION	1	R				U
Ü	***			,	R	(E) SECTION MANAGER	540	``		20	1	25	26	70	3	1120			(E) PANEL 3L2N	1	N		1		U
U	7				R 5	CONF RM 313 DUPLEX REG		900		20	1	27	28	П			1120			T	N				U
U			1	**********	R 3	RM 3138314 WALLIFLR REC			720	20	1	29	30	1	Į.			400	1	1	N.	********			U
ΨŤ					R	(E) LOAD	540	```		20	1	31	32	28	1	720			CONF RM 313 FLR QUAD REC	2	R	*********			U
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IJ.					N ;			6820		m	IT	39	40	20	1		540		(E) LOAD	1	R				U
U					N	ļ .			7460	T	1	41	42	20	Ĩ			540	(E) LOAD		R				υ
ASE.	A			PHASE E	HASE C		10300	10280	10700	0	98	ACE (	SP)	0		4540	4540	3640	MEASURED LOAD (AMPS) PHASE A:	0					
	143	340		14820	14340	CONNECTED (KVA)	44.9			0	Si	PARE (	8)	0			***************************************		MEASURED LOAD (AMPS) PHASE B:	0					
	0	0		0	0	CONN.KVA (CODE L)	0,0			0		elu (f	Đ	9			~		MEASURED LOAD (AMPS) PHASE C:	0			7.5		
	81	80		8340	7890	CONN.KVA (CODE N)	24,4			21	ŧ	JSED (I	Ŋ	21			-		DATE LAST MEASURED:						
	66	60	-1	6480	6480	CONN.KVA (CODE R)	19.6			21		TOTAL		21			***************************************	-							-
	0	0		0	- 0	CONN.KVA (CODE K)	0.9			NO.	OF KI	ITCHEN	EQUIPA	ENT	0	************									
	-		-		1	SPARE (DECIMAL)				SPA	RE KV	Α .	0.0		********			- 1	SYSKA H	EN	NE	SSY			
			-		1	FEEDER DEMAND KVA & AMP	39.2	108.8		X'FN	IR. KV	/A	39.2						SEGUE						
					<u> </u>	<del></del>													adeixona na remonente e e e e e e e e e e e e e e e e e		*********	***************************************			

						450000000000000000000000000000000000000			EMERGE	ENCY	SUPP	LY OF	RIGIN:	*					SHURT CIRCUIT AVAILABLE:	•			1		
									LOCATI	ON O	FOR	GIN:							DERATED FACTOR:						1
ITE:			Veriz	on C	III C	enter			PEEDER	SIZE	WIR	E);		441	1#6GI	ND, 1-1/2	°C.		REVISION DATE:	07/2	112		1		
			1800	Solar	Drive	e, Oxnard, CA FL 93030			TRANS	FORM	R SIZ	E (KV)	A);	75K\	A				VERIFICATION DATE:	•			1		
1	(X/N)	TYPE	NO.	T	Π		C	ONN. (\	(A)	Π	Γ	Γ				C	ONN. (V	'A)		Γ		NO.	SIZE	TYPE	(N/A)
STATUS	VERIFIED (Y/N)	OUTLET TYPE WIRE SIZE	LOCATION	TYPE	QTY.	EQUIPMENT DESCRIPTION	A	В	С	TRIP	POLE	ск	T. NO.	TRIP	POLE	A	В	С	EQUIPMENT DESCRIPTION	OTY.	TYPE	LOCATION	WIRESIZE	OUTLET TYPE	VERIFIED (Y/N)
U		_	:	R		(E) WORK STATION	540			20	1	1	2	20	1	540			(E) WORK STATION		R		L		1 0
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U	*****		ļ	8	-	(E) WORK STATION	*****		540	20	1	5	6	20	1			540	(E) WORK STATION		R				ŧ
Ű			******	R	-	(E) WORK STATION	540			20	1	7	8	20	1	540			(E) WORK STATION		R				Ú
Ü				Ŗ	1	(E) WORK STATION		640		20	1	9	10	20	1		400		(E) PRIMITURE	1	N				Ų
Ü		******		Ŕ		(E) WORK STATION			540	20	1	11	12	20	1			900	(E) PRIMITURE	I	N				U
ΰ		- di		R	-	(E) WORK STATION	540			20	1	13	14	20	1	540			(E) WORK STATION		R				U
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Ü				R	*	(E) WORK STATION	540			20	1	19	20	20	1	400			(E) VAV-13	1	N				U
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Ū			***********	N	1	(E) VAV-11			400	20	1	23	24	20	1			400	(E) VAV-15	l	N	**********			U
Ü			*******	N	1	(E) VAV-5	400			20	1	25	26	20	1	400			(E) VAV-8	<u> </u>	N		1		. U
U				N		(E) VAV-6		400		20	1	27	28	.20	-1		400		(E) VAV-9	l	N		l	Li	U
U			}	N	1	(E) VAV-7			400	20	1	29	30	20	1			400	(E) VAV-10	İ	N		1	Li	U
U		1		N		(E) VAV-3	400			20	1	31	32	20	1	600			(E) STORAGE/PRINTER	<u> </u>	N		L	L	U
U			1	N		(E) VAV-4		400		20	1	33	34	20	1 1		400		(£) VAV-3	<u></u>	N		1		U
U	,		1	R		(E) WORK STATION			540	20	1	35	36	20	1			500	(E) T.V./VCR	L	N-		L	Li	U
U			-	R		RECEPT	720			20	1	37	38	20	1	600			MICROWAVE	<u> </u>	N		1	Ш	U
U			1	R	1	RECEPT		720		20	.1	39	40	20	1		600		MICROWAVE	L	N		_		U
U				H	-	(E) VENDING MACHINE			900	20	1	41	42	20	1			800	ICE MAKER	1	N		Ĺ	Ш	į u
	PHA	SE A	PHASE	BPHI	SE C		3680	3540	3760	0	SF	ACE (	SP)	0		3820	3280	4080	MEASURED LOAD (AMPS) PHASE A:	0					
	73	00	6820	7	840	COMMECTED (KVA)	22.0			0	S	PARE	(S)	0					MEASURED LOAD (AMPS) PHASE 8:	0					
	(	)	0	1	0	CONN.KVA (CODE L)	0.0			0	ř	UU (	N)	0					MEASURED LOAD (AMPS) PHASE C:	Q		•	*******		
	28	90	3400	4	600	CONN.KVA (CODE N)	10.8			21	į	JSED (	U)	21			***********		DATE LAST MEASURED:	-					-
	45	00	3420	3	240	CONH.KVA (CODE R)	11.2			21		TOTA	L	21					2574	•					
	(	)	e	T	0	CONN.KVA (CODE K)	0.0			NO.	OF K	псна	N EQUIPM	ENT	0			-	L.m.	1					
			1	T		SPARE (DECIMAL)				SPA	RE KV	A	9.0						Syska H		NE	SSY			
			1	T		FEEDER DEMAND KVA 8 AMP	21.4	59.3		XFN	R. KV	/A	21.4						GROU	٠,					

LE LONG CONTINUOUS LOAD. RERECEPTACLE, RENOR-CONTINUOUS, RENTEREN. D.F.: DEMAND FACTOR

verizon

1800 Solar Drive, Oxnard, CA FL 93030

CONF RM FLR RECEPT

CONF RM FLR RECEPT

CONF RM FLR RECEPT

CONF RM RECEPT

CONF RM RECEPT

CONF RM FLR RECEPT

IDF RM L-20 RECEPT

Verizon Call Center

PHASE A PHASE B PHASE C

1008 1300 500 CONN.KVA (CODE N)

SPARE (DECIMAL)
FEEDER DEMAND KVA & AMP

3360 2460 3840 CONN.KVA (CODE R)

hito-srv-fs1.syska.net/SHG/LAOICF/VZCOX000/Drawings/Views/Electrical/Schedl/120V Panels x lox/3L

veni on

100A MCB

BREAKER SIZE:

SHORT CIRCUIT AVAILABLE

 TYPE:
 SREAKER SIZE:

 SUPPLY VOLTAGE:
 200/120V
 3 Ph., 4 WIRE
 NEUTRAL BUS (100/150/200%):

NORMAL SUPPLY ORIGIN: FED FROM PANEL-SL

EMERGENCY SUPPLY ORIGIN: -

SYSKA HENNESSY LE LONG CONTINUOUS LOAD IR: RECEPTACLE IN: NON-CONTINUOUS IX: XITCHEN D.F.: DEMAND FACTOR

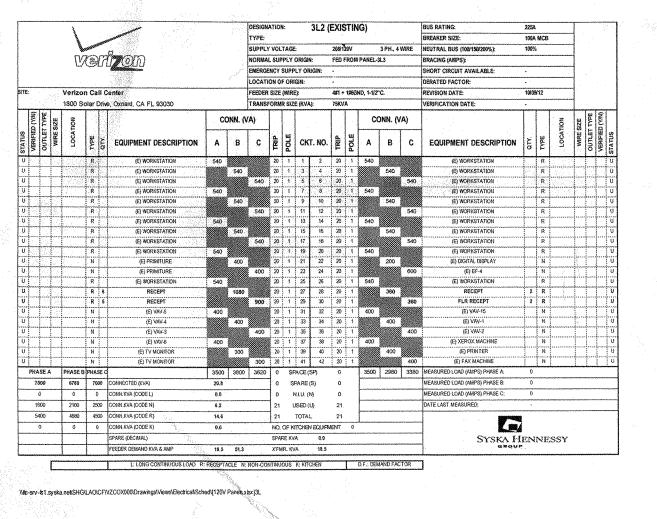
MFASURED LOAD (AMPS) PHASE C: 0 G

5 PANEL SCHEDULE INDEX

21.1 6 21.2 21.3

21.4 31.6 31.1

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			*	AND PARTY.	co:			SUPPLY	AOT.	TAGE:			208/1	20V		3 PH., 4)	MRE	NEUTRAL BUS (109150/200%):	100%					
			TV.		Ĭ <b>%</b> OM	100		NORMA	L SUP	PLY O	RIGIN	:	FED	FROM	(E) XFM	ER.		Bracing (AMPS):					- 2	
			-		Ministria in inchision			EMERGE	NCY S	SUPPL	Y OR	GIN:	-					SHORT CIRCUIT AVAILABLE:					18	
								LOCATI	ON O	FORIG	N:		1					DERATED FACTOR:	•				£.	
E	-		Verizo	n Call C	enter			FEEDER	SIZE	WIRE	l:		3#350	MCM	1#50GMC	M N+1#4	0 GND, 2	REVISION DATE:	07/26	112		1		
			1800 S	olar Driv	e, Oxnard, CA FL 93030			TRANSE					75KV	A				VERBFICATION DATE:	•					
Con	TVD	SIZE				C	ONN. (V	667					Γ		CC	ONN. (V	A)				NO.	SIZE	TYPE	(AUA)
AEDIESED CAN	Otto ET TVBE	WIRES	LOCATION	TYPE QTY.	EQUIPMENT DESCRIPTION	A	В	c	TRIP	POLE	СК	r. no.	TRIP	POLE	A	В	С	EQUIPMENT DESCRIPTION	QTY.	TYPE	LOCATION	WIRES	OUTLET TYPE	VERIFIED (YN)
+	+	+-		R	(E) LOAD	540			20	1	1	2	20	1	540			(E) LOAD		R				
i j	+	******	<del></del>	R	(E) LOAD		540		20	1	3	4	20	1		540		(E) LOAD		R		1		
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2 09/12/12

10/23/2012

BULLETIN 3 02/21/13 BULLETIN 4

REVISED FOR PLAN CHECK

3 10/09/12 BULLETIN 2

5 11/19/12

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<u></u>	SE A		PHASE E	i PH	SE C	0.730	4560	3760	3760	2	نبست SP	ACE(	<u> </u>	9	<u></u>	2820	2820	3480	MEASURED LOAD (AMPS) PHASE A:	0	<u> </u>	<u> </u>			
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4	380	十	4980	5	640	CONN.KVA (CODE R)	15.6			21		TOTAL	i.	21				70							
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			1		-	Market Market			DESIGN	ATIO	¥:	3	3L2N	(EX	ISTI	NG)			BUS RATING: BREAKER SIZE:	100A			4		
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				are and	mod	E			NORMA	****						PANEL-3		MINE	BRACING (AMPS):				-		
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HTE:			Verizo						FEEDER					-	~~~	ID, 1-1/2"	°C.		REVISION DATE:	100	9772		-		
		.,	1800 S	olar	Drive	o, Oxnard, CA FL 93030			TRANS	FORM	R SIZ	E (KVA):		75KV)	A				VERIFICATION DATE:	·	, ,		+	1-	_
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	2872		980	20	72	CONNECTED (KVA)	5.7			0	Şf	PARE (S	3)	0		***************************************			MEASURED LOAD (AMPS) PHASE 8:	0					_
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	2072		200	20	372	CONN.KVA (CODE N)	4.3			0	ŧ	.SED (U)	)	8					DATE LAST MEASURED:	-				~~~~	-
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VERIZON V.I.P. Project Number VZCOX000 CAD File Name
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PANEL SCHEDULE INDEX 3L2 3L3 3L4 6 2L2N 2UP3 3L2N 2L2N 2UP3

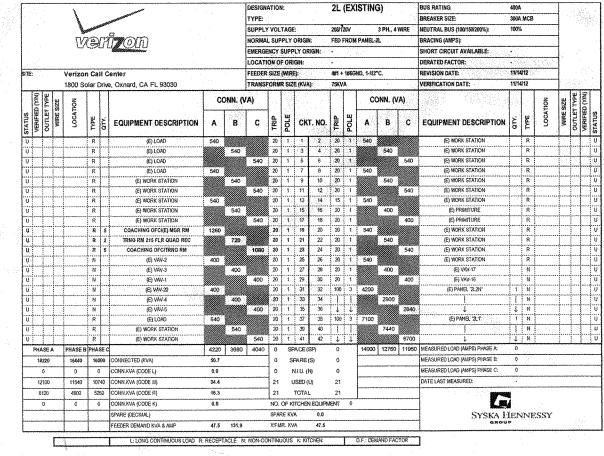
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0						2.6			- 7		USED		8		-			DATE LAST MEASURED:				*******		-
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0		0	1	1	CONN.KVA (CODE K)	0.0						3N EQUIP	WEN!	<del>.</del>				L.M.	Į					
			$\perp$	1	SPARE (DECIMAL)					RE KV		0.0						SYSKA F		NE	SSY			
	-			1	FEEDER DEMAND KVA & AMP	9,9	27.6		X'FI	MR. KI	VA.	9.9						GAUS.						

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					1	Aller .	a			SUPPL	Y VOL	TAGE	2		208/1	20V		3 PH., 4	WIRE	NEUTRAL BUS (100/150/200%);	180	%		7	W 1/11	
					TVA	<b>1</b>	Ū <b>7</b> @M			NORM	u. sui	PLY	ORIGI	N:	FED	FROM	XFRME	R 1TR		BRACING (AMPS):			-	1		
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				18	00 Sc	lar Driv	e, Oxnard, CA FL 93030			TRANS	FORK	R SIZI	E (KV)	A):	45KV	A				VERIFICATION DATE:				1		
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1800 Solar Drive Oxnard, CA 93030

1230 Avenue of the America Suite 1500 New York, NY 10020 Telephone 212,492,1400 Facsimile 212,492,1472 Gensler

SYSKA HENNESSY
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A member company of 5H Group, Inc.

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