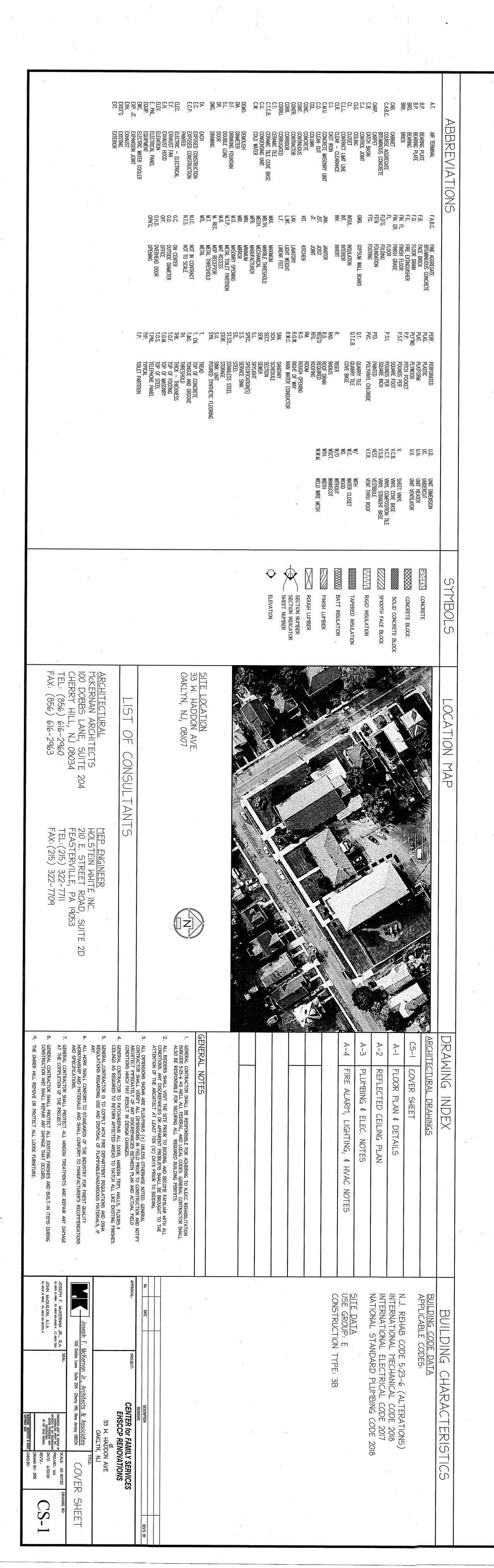
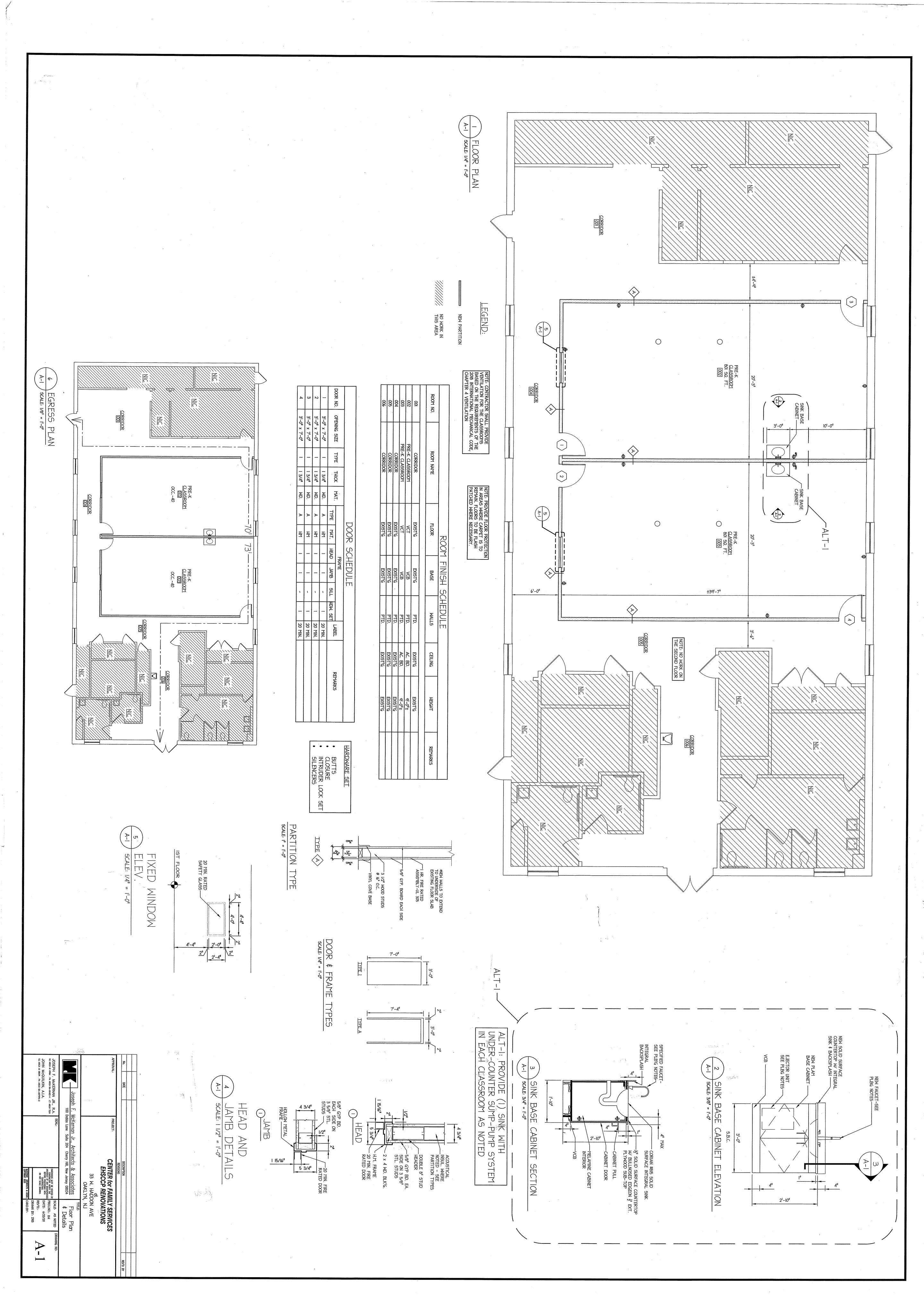
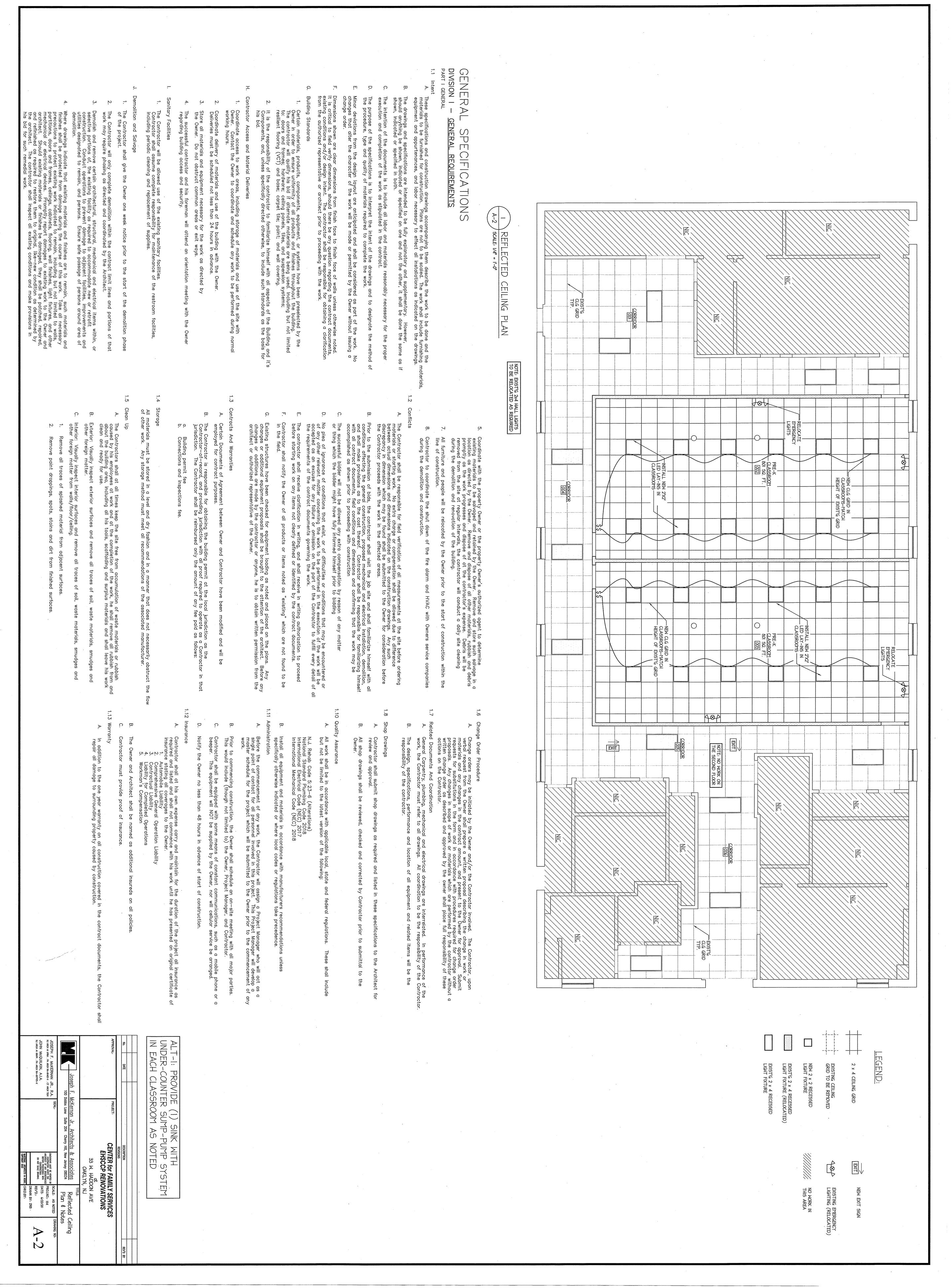
CENTER for FAMILY SERVICE, EHSCCP RENOVATIONS

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Oaklyn, New Jersey 0810







GENERAL PLUMBING NOTES

- LABOR, MATERIALS, DOCUMENTS, CODES,
- THE CONTRACTOR BY HIS ACCEPTANCE OF THE CONTRACT GUARANTEES THAT ALL WORK INSTALLED SHALL BE FREE FROM ALL DEFECIN WORKMANSHIP AND MATERIALS AND THAT ALL APPARATUS FURNISHED BY HIM SHALL DEVELOP THE CAPACITIES AND CHARACTERIST SPECIFIED. HE FURTHER GUARANTEES THAT IF, DURING A PERIOD OF ONE (I) YEAR FROM THE DATE OF THE CERTIFICATE OF COMPLETION AND ACCEPTANCE OF THE WORK, ANY SUCH DEFECTS IN WORKMANSHIP, MATERIAL OR PERFORMANCE APPEAR, SUCH DEFECTS HE REMEDIED BY HIM WITHOUT COST TO THE OWNER. IF THE CONTRACTOR FAILS TO REMEDY THE DEFECTS AS OUTLINED WITH A REASONABLE LENGTH OF TIME, TO BE SPECIFIED IN A NOTICE FROM THE OWNER'S AUTHORIZED REPRESENTATIVE TO THE CONTRACTOR. THE OWNER WILL HAVE SUCH WORK DONE, AND HE WILL CHARGE THE COST TO THE CONTRACTOR.
- THE CONTRACTOR SHALL VISIT THE SITE BEFORE HE SUBMITS HIS PROPOSAL. HE SHALL EXAMINE ALL EXISTING CONDITIONS WHICH AFFECT THE WORK. THE SUBMISSION OF THE PROPOSAL SHALL BE CONSIDERED EVIDENCE THAT THIS REQUIREMENT HAS BEEN FULF NO EXTRA PAYMENT WILL BE ALLOWED FOR ADDITIONAL WORK MADE NECESSARY BY THE FAILURE TO VISIT THE SITE.
- PLUMBING EQUIPMENT, PIPING, AND FIXTURES SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH LATEST AND BEST PRACTICES OF THE TRADE. ONLY MECHANICS SKILLED IN THIS TYPE OF WORK SHALL BE EMPLOYED AND UTILIZED BY CONTRACTOR FOR THIS DIVISION IN THE EXECUTION OF THIS WORK.
- THE CONTRACTOR SHALL, WITHOUT ADDITIONAL COSTS TO THE OWNER, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT OF HIS WI ORDER TO PREVENT CONFLICTS WITH THE WORK OF OTHER TRADES OR FOR THE PROPER EXECUTION OF HIS WORK.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN IN GOOD ORDER A COMPLETE SET OF BLUELINE PRINTS OF THE CONTRACT DRAWINGS. AS THE WORK PROGRESSES, THE ACTUAL LOCATION OF ALL WORK SHALL BE CLEARLY RECORDED, INCLUDING ALL CHANGES TO THE CONTRACT STALL SIZE AND TYPE. THESE PRINTS SHALL BE AVAILABLE AT THE SITE FOR INSPECTION AT ALL TIMES. AT THE CONTRACT DRAWINGS, AND UTILIZING THE SYMBOLS ON THE CONTRACT DRAWINGS, SHALL INCORPORATE ALL "AS BUILT" DATA IN A CONTRACT DRAWINGS, SHALL INCORPORATE ALL "AS BUILT" DATA IN A CLEARLY LEGIBLE AND REPRODUCIBLE MANNER. ALL SCHEDULES SHALL BE CORRECTED TO INDICATE "AS BUILT" CONDITIONS. ALL CONCEALED REVISIONS SHALL BE INCORPORATED ON THESE REPRODUCIBLES INCLUDING ALL SKETCHES AND WRITTEN DIRECTIVES. ALL CONCEALED EQUIPMENT, MAINFEEDERS, PULL AND JUNCTION BOXES, ETC. SHALL BE DIMENSIONALLY LOCATED FROM THE BUILDING STRUCTURE: AS A CONDITION FOR ACCEPTANCE OF THE WORK, THE "AS BUILT" REPRODUCIBLES AND ONE (1) SET OF PRINTS SHALL BE SIGNED, DATED AND DELIVERED TO THE ENGINEER.
- THE CONTRACTOR SHALL SUPPLY ALL LABOR REQUIRED TO PERFORM ALL WORK WHICH MAY BE CLAIMED BY TRADE ORGANIZATIONS WITHIN HIS JURISDICTION. ALL WORK SHALL BE PERFORMED WITHOUT ANY ADDITIONAL COST TO THE OWNER IRREGARDLESS OF WHICH SECTION OF THE CONTRACT DOCUMENTS THE WORK IS DESCRIBED. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY WITH ALL LOCAL ORGANIZATIONS THE EXTENT OF ANY COLLECTIVE BARGAINING AGREEMENTS AND/OR ANY JURISDICTIONAL DECISIONS RENDERED REGARDING DISPUTES BETWEEN THE RESPECTIVE TRADES, AND PROVIDE AND INSTALL HIS WORK IN ACCORDANCE WITH THE ACCEPTED TRADE PRACTICE IN THE AREA.
- HE ENTIRE INSTALLATION SHALL CONFORM WITH ALL PERTINENT CODES AND REGULATIONS OF THE LOCAL, MUNICIPAL, COUNTY, SIND FEDERAL AUTHORITIES, THE NATIONAL BOARD OF FIRE UNDERWRITERS, THE CODES OF THE INTERNATIONAL CODES COUNCIL, DODES OF THE NATIONAL FIRE PROTECTIVE ASSOCIATION, THE NEW JERSEY UNIFORM CONSTRUCTION CODES, NATIONAL STANDARD LUMBING CODE, AND ALL OTHER REGULATORY BODIES HAVING JURISDICTION. ALL MATERIALS AND EQUIPMENT SHALL BEAR THE REALS OF THE NFPA, ASME, NEMA, IEEE, UL AND OTHER RECOGNIZED INDUSTRY REGULATORY GROUPS. STATE, STAMPS
- THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, PAY ALL GOVERNMENTAL TAXES, FEES AND OTHER COSTS IN CONNECTION WITH HIS WORK. HE SHALL FILE ALL NECESSARY PLANS, AND PREPARE ALL OTHER DOCUMENTS INCLUDING ADDITIONAL DETAILED PLANS THAT ARE REQUIRED FOR COMPLIANCE WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS.
- THE CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE FROM THE ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY HIS EMPLOYEES OR WORK. AT THE COMPLETION OF THE WORK, HE SHALL REMOVE ALL SUPERFLUOUS MATERIALS, EQUIPMENT AND DEBRIS RESULTING FROM THE WORK.
- SHALL BE RUN CONCEALED WHEREVER POSSI
- OVIDE ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL THE SINK, DRAINAGE PIPING, UNDER-COUNTER SUMP PUMP 9NG, BATTERY-POWERED AUTOMATIC SENSOR FAUCET, AND DOMESTIC WATER PIPING TO MEET THE REQUIREMENTS FOR THE SINK UMBING SYSTEMS. FULLY COORDINATE INSTALLATION OF ELECTRICAL WIRING AND EQUIPMENT WITH INSTALLATION OF ELECTRICAL ERATED UNDER-COUNTER SUMP PUMP WITH THE ELECTRICAL CONTRACTOR.
- WHERE EXISTING FACILITIES ARE BEING ALTERED, DISCONNECT AND REMOVE OR RELOCATE ALL EXISTING PLUMBI INTERFERES WITH OR IS NECESSARY BECAUSE OF NEW CONSTRUCTION AS SPECIFIED, SHOWN OR REQUIRED. PERFORM ALTERATIONS AND ADDITIONS TO PRESENT PLUMBING SYSTEMS WITH A MINII BYSTEMS. OBTAIN WRITTEN CLEARANCE FROM OWNER FOR SUCH INTERRUPTIONS AND NRITING BY OWNER. MUM INTERRUPTION IN THE OPERATION OF THE SCHEDULE SAME AT WHATEVER TIME SPECIFIE
- PERFORM ALTERATION OF UTILITIES AND SERVICES IN ACCORDANCE WITH THE RULES, REGULATIONS AND REQUIREMENTS OF THE INVOLVED UTILITY COMPANIES AND REGULATORY AGENCIES HAVING JURISDICTION.
- PROVIDE MATERIALS, EQUIPMENT, SUPPLIES AND LABOR NECESSARY AS REQUIRED TO ADEQUATELY SUPPORT, BRACE AND STRENGT ALL EQUIPMENT AND MATERIALS FURNISHED AS PART OF THIS WORK.
- OCATIONS ARE SUBJECT TO CHANGES THAT MAY BE NECESSARY TO AVOID OBSTACLES IN BUILDING CONSTRUCTION. VERIFY ALL DIMENSIONS AND CONDITIONS AT SITE. CHECK LAYOUT FOR SIZES AND CLEARANCES, AND PROVIDE SO THAT THE APPARATUS AND MATERIAL MAY BE INSTALLED AND OPERATED SATISFACTORILY IN SPACE PROVIDED. INSTALL EQUIPMENT AND RACEWAYS TO PRES MEADROOM AND TO KEEP OPENINGS AND PASSAGEWAYS CLEAR.
- NO PRODUCT SHALL BE INSTALLED WITHOUT PRIOR APPROVAL FROM OWNER CONTRACTOR SHALL PERFORM ALL SYSTEM COMMISSIONING REQUIRED.
- WHERE SPECIFIED OR REQUIRED, EXTEND EXISTING SYSTEMS SYSTEM TO SATISFACTION OF OWNER AND ARCHITECT. OR TIE
- PERFORM ALL WORK NECESSARY TO PERMIT OPERATION OF ALL EXISTING SYSTEMS DURING MAINTAIN APPLICABLE APPROVED TEMPORARY WIRING TO MEET THIS REQUIREMENT. ALL EXISTING WORK TO REMAIN, BUT DISTURBED OR DISCONNECTED BECAUSE OF ALTERATIONS AND NEW CONSTRUCTION REPLACED AND PUT IN OPERATING CONDITION UNLESS INSTRUCTED OTHERWISE IN WRITING BY OWNER OR ARCHITECT. THE CONSTR CTION PERIOD. SHALL BE PROVIDE
- PIPING SHALL BE PROPERLY SUPPORTED AND ADEQUATE PROVISIONS SHALL BE MADE FOR EXPANSION, CONTRACTIONS, SLOPE, INSULATION, AND ANCHORAGE. ALL PIPING SHALL BE CUT ACCURATELY FOR FABRICATION TO MEASUREMENTS ESTABLISHED AT THE CONSTRUCTION SITE. PIPE SHALL BE WORKED INTO PLACE WITHOUT SPRINGING AND/OR FORCING, PROPERLY CLEARING ALL WINDOW DOORS AND OTHER OPENINGS AND EQUIPMENT. CUTTING OR OTHER WEAKENING OF THE BUILDING STRUCTURE TO FACILITATE INSTALLATION WILL NOT BE PERMITTED. ALL PIPES SHALL HAVE BURR AND CUTTING SLAG REMOVED BY REAMING OR OTHER CLEAN METHODS. ALL CHANGES IN DIRECTION SHALL BE MADE WITH FITTINGS.
- ALL PIPING SHALL BE ARRANGED 50 AS NOT TO INTERFERE WITH REMOVAL OF OTHER EQUIPMENT OR DEVICES NOR TO BLOCK ACCE DOORS, WINDOWS, OR OTHER ACCESS OPENINGS. FLANGES OR UNIONS, AS APPLICABLE FOR THE TYPE OF PIPING SPECIFIED, SHALL PROVIDED IN THE PIPING AT CONNECTIONS TO ALL ITEMS OF EQUIPMENT. PIPING SHALL BE PLACED AND INSTALLED SO THAT THER BE NO INTERFERENCE WITH THE INSTALLED OF THE EQUIPMENT, DUCTS, ETC. ALL PIPING SHALL BE INSTALLED TO INSURE NOISI CIRCULATION. ALL VALVES AND SPECIALTIES SHALL BE PLACED TO PERMIT EASY OPERATION AND ACCESS, AND ALL VALVES SHALL BE REGULATED, PACKED AND GLANDS ADJUSTED AT THE COMPLETION OF THE WORK BEFORE FINAL ACCEPTANCE. ALL PIPING SHALL BERECTED AND PITCHED TO INSURE PROPER DRAINING. PIPING SHALL BE INSTALLED SO AS TO AVOID LIQUID OR AIR POCKETS THROUGHOUT THE WORK.
- JNIONS SHALL BE INSTALLED ON ALL BY-PASSES AND AT ALL CONNECTIONS TO EQUIPMENT, WHERE SHOWN ON THE DRAWINGS OR REQUIRED TO FACILITATE REMOVAL OF EQUIPMENT, WHETHER SHOWN OR NOT. METALS BE ISOLATED BY MEANS OF DIELECTRIC UNIONS.
- VALVES SHALL BE PROVIDED FOR THE HOT AND COLD WATER PIPACCESSIBLE LOCATION. ING SERVING THE SINKS. EACH VALVE SHALL BE INSTALLED IN
- DRAINAGE AND VENT PIPING PIPING SHALL BE CAST IRON, COATED INSIDE AND OUT, AND SHALL BE LABELED WITH THE NO-HUB INSIGNIA AND COMPLIES WITH THE MOST CURRENT REVISION OF CAST IRON SOIL PIPE INSTITUTE'S STANDARD CISPI 301. THE PIPE SHALL BE AS MANUFACTURED BY TYLER PIPE INDUSTRIES, OR U.S. PIPE FOUNDRY COMPANY.
- NO HUB JOINTS SHALL BE USED WITH ONLY NO HUB BUTTED CAST PIPE MANUFACTURED IN ACCORDANCE WITH THE MOST CURRENT REVISION OF CAST IRON SOIL PIPE INSTITUTE'S STANDARD CISPI 310. THE NO HUB JOINTS SHALL CONSIST OF A SLEEVE-TYPE GASKET DESIGNED TO BE COMPRESSED AROUND A BUTTED PIPE JOINT AND STAINLESS STEEL SLEEVE WITH RETAINING CLAMPS. THE COMPRESSION BAND SHALL BE OF TYPE 301 AISI STAINLESS STEEL CONSISTING OF A CORRUGATED SHIELD AND CLAMP BANDS, WITH SCREEN HOUSING AND TYPE 305 AISI STAINLESS STEEL SCREW WITH 3/16-INCH HEX HEAD SHOULDER. THE PIPE MANUFACTURER SHALL FURNISH ALL THE JOINT GASKETS AND STAINLESS STEEL COMPRESSION RINGS REQUIRED.
- DOMESTIC WATER PIPING SHALL BE INSTALLED TO ALLOW FOR EXPANSION, EITHER PARALLEL OR PERPENDICULAR TO THE BUILDING CONSTRUCTION. ALL PIPE SHALL BE REAMED TO FULL DIAMETER BEFORE JOINING. ENDS OF PIPE AND INSIDE OF FITTINGS SHALL BE CLEANED AND FLUX APPLIED TO ENTIRE AREA OF PIPE END TO BE SOLDERED. ON PIPE I-I/2-INCHES AND LARGER, FLUX SHALL BE APPLIED TO PIPE AND FITTINGS. JOINTS SHALL BE MADE WITH 95-5 SOLDER. PIPE SHALL BE HARD DRAWN TUBING COMPLYING WITH THE MOST CURRENT REVISION OF ASTM B88. THE COPPER WROUGHT FITTINGS SHALL COMPLY WITH THE MOST CURRENT REVISION OF ANSI BI6.22.
- INSULATE ALL HOT WATER SUPPLY AND RETURN PIPING AND ALL COLD WATER PIPING SUBJECT TO CONDENSATION (SWEATING) WI FIBER GLASS PIPE INSULATION OR FACTORY APPLIED ALL PURPOSE (AP) JACKET WITH A MINIMUM "C" VALUE OF .45.
- ALL FAUCETS, FITT POLISHED CHROME BE PLATED CAST E PROVIDE A STOP IN EACH FIXTURE CON TINGS, TRAPS, SEAT HINGES, WATER AND WASTE CONNECTIONS, PLATE OVER NICKEL-PLATED BRASS UNLESS OTHERWISE NOTED. EACH FIXTURE SHALL BE PROVIDED WITH A AND ANY OTHER EXPOSED METAL PART SHALL . ALL FAUCETS, FITTINGS, HANDLES AND TRAI
- PROVIDE (2) UNDER-COUNTER SUMP PUMP SYSTEMS FOR EACH SINK. THE UNDER-COUNTER SUMP PUMP SYSTEMS SHALL BE SIMIL LITTLE GIANT WRS SERIES MODEL WRS-5, 1/6 H.P., 115 V, 60 HZ, AND 8 GPM AT 15 FEET OF HEAD. INSTALL SUMP PUMP SYSTEM THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE THE FOLLOWING PIPING FOR EACH SINK: 1-1/2" DRAIN PIPE WITH TRAP FROM SINK DRAIN, 1-1/2" DISCHARGE PIPES WITH CHECK VALVES AND 2" VENT PIPES. 1-1/2" DISCHARGE PIPE SHALL DRAIN BY GRAVITY IS SANITARY PIPE LOCATED ABOVE THE CEILING. CONTRACTOR SHALL VERIFY THE LOCATION OF AN EXISTING STACK TO CONNECT GRAVITY DRAIN PIPE (LOCATED ABOVE THE CEILING) COLLECTING THE UNDER-COUNTER DRAINAGE PIPING.
- PROVIDE (2) SENSOR OPERATED FAUCETS FOR EACH SINK. THE SENSOR OPERATED FAUCETS SHALL BE SIMIL GPM, THERMOSTATIC MIXING VALVE MODEL P6900-MV, AND STAINLESS-STEEL BRAIDED HOSES. INSTALL SENS PER THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE THE FOLLOWING PIPING FOR EACH FAUCET: ½" HOT WITH INSULATION. CONTRACTOR SHALL VERIFY THE TIE-IN LOCATION FOR THE HOT AND COLD WATER PIPING IILAR TO ZURN Z6955->
 INSOR OPERATED FAUCE
 WATER AND 1/2" COLD
 G SERVING THE FAUCE

- IOUT ADDITIONAL COSTS TO THE OWNER, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT OTHER TRADES OR FOR THE PROPER EXECUTION OF HIS WORK. ORDER TO PNT

- SIH HLIM
- BEFORE STARTING ANY WORK UNDER THIS CONTRACT, FILE FOR INSPECTION WITH THE MIDDLE DEPARTMENT INSPECTION AGENCY OR OTHER CERTIFIED AGE UPON COMPLETION OF THE WORK, FURNISH ELECTRICAL CERTIFICATES FROM SAID AGENCY FOR ALL ELECTRICAL EQUIPMENT AND SYSTEMS INSTALLED OR FURNISHED AND INSTALLED AS PART OF THE WORK. NCY.
- ALL FEEDER WIRING SHALL BE SOFT DRAWN COPPER OF 98% CONDUCTIVITY, INSTALLED IN CODE CONFORMING METALLIC RACEWAYS OR CABLE ASSEMBLIES. WIRING SHALL BE COPPER, THERMOPLASTIC COVERED INSULATED TYPE 75°C. THW OR 90°C. TYPE THHN, 600-VOLT RATING. WIRE NO. 8 AWG AND SMALL BE SOLID. WIRE LARGER THAN NO. 8 SHALL BE STRANDED. . ALL
- ALL WIRING SHALL BE INSULATED COPPER CONDUCTORS INSTALLED IN CODE CONFORMING RACEWAYS OR CABLE ASSEMBLIES
- VHERE CONDUCTORS CONNECT DIRECTLY TO EQUIPMENATURE RATING.
- EXERCISE GREAT CARE IN MAINTAINING A UNIFORM AND CONSISTENT ARRANGEMENT OF PHASE CONDUCTORS ON ALL SYSTEMS. THROUGHOUT THE ENTIRE SYSTEMS, EACH PHASE CONDUCTOR MUST ALWAYS BE IN THE SAME PHYSICAL POSITION WITH RESPECT TO THE OTHER PHASE WIRES AT EQUIPMENT TERI CONDUCTOR AND PHASES.
- TO CARRY FULL RATED
 3 APPROVED FOR COPPE
 3 MAGNETIC PROTECTION
 1 CIRCUITS FEEDING INC
 25 SERVING HEATING AN
- WHERE NEW CIRCUIT BREAKERS ARE TO BE INSTALLED WITHIN EXISTING AND OF SUFFICIENT SHORT CIRCUIT RATING FOR THE APPLICATION. BE LISTED FOR USE WITH TYPI
- ₽ S F
- TING FACILITIES ARE BEING ALTERED, DISCONNECT AND REMOVE OR RELOCATE ALL EXISTING ELECTRICAL WORK THAT INTERFERES BECAUSE OF NEW CONSTRUCTION AS SPECIFIED, SHOWN OR REQUIRED.
- PERFORM ALTERATION OF UTILITIES AND SERVICES REGULATORY AGENCIES HAVING JURISDICTION. IN ACCORDANCE WITH THE RULES,
- IDENTIFY EACH SWITCHBOARD, PANEL, PANELBOARD, AND OTHER ELECTRICAL EQUIPMENT AS TO NATURE, ATTACHED, APPROVED SIZE, LAMINATED PHENOLIC NAMEPLATES. ECT TO CHANGES THAT MAY BE NECESSARY TO AVOID OBSTACLES IN BUILDING CONSTRUCTION. VERIFY ALL DIMENSIONS AND CONDI FOR SIZES AND CLEARANCES, AND PROVIDE SO THAT THE APPARATUS AND MATERIAL MAY BE INSTALLED AND OPERATED SATISFA INSTALL EQUIPMENT AND RACEWAYS TO PRESERVE HEADROOM AND TO KEEP OPENINGS AND PASSAGEWAYS CLEAR. AND OTHER DURING PERMANENTLY
- WHERE SLEEVES CONTAINING A SINGLE CONDUIT PENETRATE FIRE RATED WALLS, FLOORS, PARTITIONS OR SLABS, I-PART INTUMESCENT CAULK/PUTTY SEALANT CREATING A FIRE STOP EQUAL TO OR EXCEEDING FIRE RATING OF FIRE SEALANT SHALL PREVENT SPREAD OF FLAME, SMOKE, AIR AND WATER THROUGH THE SLEEVE AND SHALL PRICE SEALANT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. WHERE SLE MULTIPLE CABLES PENETRATE FIRE RATED WALLS, FLOORS, PARTITIONS, OR SLABS, FILL AND SEAL SPACES BE SLEEVE WITH 2-PART INTUMESCENT FOAM SEALANT CREATING A FIRE STOP EQUAL TO OR EXCEEDING FIRE RATIN PENETRATED. FIRE SEALANT SHALL PREVENT SPREAD OF FLAME, SMOKE, AIR AND WATER THROUGH THE SLEEVE AND UL 1479. FIRE SEALANT SHALL PREVENT SPREAD OF FLAME, SMOKE, AIR AND WATER THROUGH THE SLEEVE ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTION FILL AND SEAL ENDS AROUND CONDUITS AND/OR CABLES WITH DUCT SEALANT COMPOUND EQUAL TO SOLORITE KIND OR OTHER TYPE MASTIC IS NOT ACCEPTABLE. WHERE WIRING DEVICES ARE PLACED IN FIRE RATED CONSTRUCTION OF THE PLACED OF THE CONSTRUCTION OF THE PLACED ON THE PLACED ON THE RATED CONSTRUCTION. TO THE SLEEVE WITH A EING PENETRATED.

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 I GRADE. CAULKING

 LED ASSEMBLY SHALL ASTMA E814 IOR WALLS, I IN AULKING BLY SHALL
- TOGGLE TYPE WITH TOTALLY ENCLOSED CASE, RATED 20 AMPERE,

- ROVIDE OCCU ECHNOLOGY, ETTINGS TO JPANCY SENSORS WHERE INDICATED ON PLAN. OCCUPANCY SENSORS SHALL BE AS MANUFACTURED BY WATT STOPPER. COMBINATION PASSIVE INFRARED AND ULTRASONIC WITH TOGGLE SWITCH. REFER TO DETAIL FOR EXACT MODEL NUMBER. OWNER IN OPERATIONS MANUALS. LT LIST OF
- ECEPTACLES SHALL BE PERMANENTLY LABELED TO IDENTIFY PANELBOARD AND CIRCUIT NUMBER FROM WHICH SERVED. USE HOT, ST ACHINE PRINTING WITH BLACK-FILLED LETTERING ON FACE OF PLATE, AND DURABLE WIRE MARKERS OR TAGS INSIDE OUTLET BOXES.

- EXISTING CONDITIONS WHICH AFFECT THE WORK.

 JLFILLED. NO EXTRA PAYMENT WILL BE ALLOWED
- ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH LATEST AND BEST PRACTICES OF THE TRADE. MECHANICS SKILLED IN THIS TYPE OF WORK SHALL BE EMPLOYED AND UTILIZED BY CONTRACTOR FOR THIS DIVISION IN THE EXECUTION OF THIS WORK.

- HE ENTIRE INSTALLATION SHALL CONFORM WITH ALL PERTINENT CODES AND REGULATIONS OF THE LOCAL, MUNICIPAL, COUNTY, STATE, AND FEDERAL UTHORITIES, THE NATIONAL BOARD OF FIRE UNDERWRITERS, THE CODES OF THE INTERNATIONAL CODES COUNCIL, THE CODES OF THE NATIONAL FIRE PROSESCIATION, THE NEW JERSEY UNIFORM CONSTRUCTION CODES, AND ALL OTHER REGULATORY BODIES HAVING JURISDICTION. ALL MATERIALS AND EQUIPMENT OF THE NEW ASME, NEMA, IEEE, UL AND OTHER RECOGNIZED INDUSTRY REGULATORY GROUPS.
- THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, PAY ALL GOVERNMENTAL TAXES, FEES AND OTHER COSTS WORK. HE SHALL FILE ALL NECESSARY PLANS, AND PREPARE ALL OTHER DOCUMENTS INCLUDING ADDITIONAL DETAILED PLANS THAT ARE COMPLIANCE WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS.

ALT-1-

PROVIDE (I) DEDICATED 20 AMP, SINGLE POLE 120V BRANCH CIRC PROVIDE A LOCAL DISCONNECT AT EACH PUMP.

PROVIDE (4) DUPLEX RECEPTACLES PER CLASS ROOM, ONE RECEPTACLE PER WALL

DEMOLISH AND REMOVE EXISTING ELECTRICAL EQUIP

CUIT BREAKERS MADE SPARE DUE TO DEMOLITION SHALL

- THE CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE FROM THE ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY HIS EMPLOYEES OR WORK. AT THE COMPLETION OF THE WORK, HE SHALL REMOVE ALL SUPERFLUOUS MATERIALS, EQUIPMENT AND DEBRIS RESULTING FROM THE WORK.
- LL WIRING SHALL BE RUN CONCEALED WHEREVER POSSIBLE. ALL EXPOSED CONDUIT SHALL BE EMT OR RIGID STEEL AS REQUIRED. FLEXIBLE CONDUIT S MOOTH LIQUIDTIGHT WITH APPROPRIATE FITTINGS. CONDUIT DROPS FROM ABOVE CEILING SHALL BE STRUCTURALLY SECURED AND SUPPORTED. CABLE SSEMBLIES USED FOR BRANCH CIRCUITS SHALL NOT BE RUN EXPOSED. CABLE ASSEMBLIES SHALL BE PERMITTED EXPOSED FOR FINAL CONNECTIONS TO ECHANICAL AND PLUMBING EQUIPMENT AND SHALL BE LIMITED TO 6 FEET TOTAL LENGTH, ROUTING SHALL NOT INTERFERE WITH EQUIPMENT WORKSPACE.
- CODING SHALL CONFORM WITH EXISTING
- CONTRACTOR SHALL PROVIDE TYPED UPDATED PANEL SCHEDULES AT COMPLETION OF PROJ AND TO APPROVAL OF LOCAL UNDERWRITERS INSPECTION JECT FOR ALL PANELS EFFECTED BY
- CIRCUIT BREAKERS SHALL BE MOLDED CASE, BOLTED, THERMAL MAGNETIC TRIP IN EACH POLE, ENCLOSURE-COMPENSATED TO TRIP-FREE HANDLES SHALL CLEARLY INDICATE TRIP, ON AND OFF CONDITION, QUICK-MAKE AND QUICK-BREAK ACTION. LUGS ALUMINUM CONDUCTORS AND COMPRESSION TYPE. GROUND FAULT TYPE BREAKERS SHALL BE PROVIDED WITH THERMAL AND IN MILLIAMPERE GROUND FAULT SENSITIVITY, WHERE REQUIRED. CIRCUIT BREAKERS USED AS SWITCHES IN 120 AND 277 VOLT OF FLUORESCENT, AND/OR HID FIXTURES SHALL BE APPROVED FOR SUCH USE AND MARKED "SWD", PER NEC. CIRCUIT BREAKERS CONDITIONING EQUIPMENT SHALL BE HACR RATED.
- PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO PROVIDE ELECTRIC POWER TO MEET THE REQUIREMENTS FOR HEATING, VENTILATING, AIR-CONDITIONING AND PLUMBING SYSTEMS. FULLY COORDINATE INSTALLATION OF ELECTRICAL WIRING AND EQUIPMENT WITH INSTALLATION OF ELECTRICAL OPERATED MECHANICAL EQUIPMENT PROVIDED BY THE MECHANICAL AND PLUMBING CONTRACTORS. INSTALL DISCONNECT SWITCHES, MOTOR STARTERS, AND CONTROL TRANSFORMERS FURNISHED BY MECHANICAL AND PLUMBING CONTRACTORS. PROVIDE FINAL EQUIPMENT ELECTRICAL TERMINATIONS. ALL INTERNATIONS OF TRANSFORMERS BY MANUFACTURER.
- TEST EQUIPMENT, INCLUDING PANELBOARDS AND <u>ALL</u> OTHER EQUIPMENT AND WIRING FOR UNINTENDED GROUNDS, SHORT CIRCUITS, OPEN CIRCUITS, CONTINUITY, CURRENT LEAKAGE, AND THAT EQUIPMENT WILL OPERATE AS SPECIFIED. TEST FEEDERS FOR INSULATION RESISTANCE; FOR LOAD BALANCE OF THE FINAL INSTALLATION, AND FOR OVERALL OPERATION OF SYSTEMS. FURNISH LABOR AND MATERIAL REQUIRED FOR MAKING SUCH TESTS AND MAKE CORRECTIONS NECESSARY TO BALANCE THE LOAD AND TO OBTAIN PROPER OPERATION.
- PERFORM ALTERATIONS AND ADDITIONS TO PRESENT ELECTRICAL SYSTEMS WITH A MINIMUM INTERRUPTION IN THE OPERATION OF THESE SYSTEMS. OBTA WRITTEN CLEARANCE FROM OWNER FOR SUCH INTERRUPTIONS AND SCHEDULE SAME AT WHATEVER TIME SPECIFIED IN WRITING BY OWNER.
- ELECTRICAL EQUIPMENT SHALL NOT INTERFERE IN ANY WAY WITH OTHER MATERIAL OR EQUIPMENT AND SHALL PROVIDE ADEQUATE WORKING REQUIREMENTS FOR ELECTRICAL INSTALLATIONS, ARTICLE 110 AND OTHER RELATED ARTICLES OF THE NATIONAL ELECTRICAL CODE. PROVIDE MATERIALS, EQUIPMENT, SUPPLIES AND LABOR NECESSARY MATERIALS FURNISHED AS PART OF THIS WORK. AND PAY FOR THE RELOCATION, DISCONNECTION OR REMOVAL OF EXISTING UTILITIES AND SERVICES WHERE SHOWN AND WHERE SUCH UTILITIES (INTERFERE WITH NEW CONSTRUCTION, WHETHER SHOWN OR NOT. PROVIDE ALL EXCAVATION, BACKFILLING AND PAVING, MANHOLES, AND CABLES BY SUCH WORK. AS REQUIRED TO ADEQUATELY SUPPORT, BRACE AND STRENGTHEN ALL EQUIPMENT
- QUANTITIES WITH ARCHITECTURAL

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- FIXTURES REQUIRED. PROVIDE ALL INTERIOR AND EXTERIOR LIGHTING FIXTURES COMPLETE WITH SOCKETS, REFLECTORS, 1PS, BALLASTS, PROTECTIVE DEVICES AND ALL OTHER REQUIRED APPURTENANCES. PRIOR TO ORDERING LIGHTING FIXTURES BE USED FOR EACH SPACE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS BETWEEN LIGHTING FIXTURES AND DUCTWORK, SUPPORTS, FITTINGS AND EQUIPMENT. FURNISH TO OTHER TRADES, PLASTER FRAMES, TRIM RINGS, ETC., WHE

- STANDARD DUPLEX RECEPTACLES SHALL BE POLASTYLE AND COLOR AS SELECTED BY ARCHITECT. RESHOLD
- BE TYPE AND COLOR AS SELECTED BY Ð AND
- PRODUCT SHALL BE INSTALLED WITHOUT PRIOR APPROVAL FROM OWNER OR SHALL PERFORM ALL SYSTEM COMMISSIONING REQUIRED.

- ERE SPECIFIED OR REQUIRED, EXTEND EXISTING SYSTEMS OR TIE INTO SAME TO PROVIDE A COMP NER AND ARCHITECT. ELECTRICAL

ALL EXISTING WORK TO REMAIN, BUT DISTURBED OR DISCONNECTED BECAUSE OF ALTERATIONS AND NEW CONSTRUCTION SHALL BE OPERATING CONDITION UNLESS INSTRUCTED OTHERWISE IN WRITING BY OWNER OR ARCHITECT.

Z

FORM ALL WORK NECESSARY TO PERMIT OPERATION OF ALL EXISTING SYSTEMS DURING THE CONSTRUCTION PERIOD. ROVED TEMPORARY WIRING TO MEET THIS REQUIREMENT.

ING BRANCH CIRCUITS NOT SHOWN SHALL REMAIN INTACT TO EXTENT PRACTICABLE, AND SHALL BE EXTENDED AS REQUIRED.

MENT, FEEDERS AND CONDUIT NO LONGER REQUIRED BY NEW CONSTRUCTION

POSITION AND LABELED 'SPARE'

PROVIDE (I) DEDICATED 20 AMP, SINGLE PO

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) SINK WITH JMP-PUMP SYSTEM M AS NOTED

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- THE CONTRACTOR BY HIS ACCEPTANCE OF THE CONTRACT GUARANTEES THAT ALL MORK INSTALLED SHALL BE FREE FROM ALL DEFECTS IN MORKTWASHIP AND MATERIALS AND THAT ALL APPARATUS FURNISHED BY HIM SHALL DEVELOP THE CAPACITIES AND CHARACTERS AND CHARACTERS AND THAT IT, DURK A PERSON OF ONE (I) YEAR FROM THE DATE OF THE CERTIFICATE OF COPPLETION AND ACCEPTANCE OF THE WORK, ANY SUCH DEFECTS IN MORKTWASHIP, INTERIOR OF THE CERTIFICATE OF COPPLETION AND ACCEPTANCE OF THE WORK, ANY SUCH DEFECTS IN WORKTWASHIP, INTERIOR AS PERSON THE CERTIFICATE OF COPPLETION AND ACCEPTANCE OF THE OWNER, AND THE OWNER, IT THE CONTRACTOR FALLS TO REPERTY THE DEFECTS AS OUTLINED MITHIN A REASONABLE LEAGHT OF THE SIET BEFORE HE SLIBHT'S HIS PROPOSAL. HE SHALL EXAMINE ALL EXISTING CONDITIONS WHICH AFFECT THE MORK THE SHALL WIST THE SITE BEFORE HE SLIBHT'S HIS PROPOSAL. HE SHALL EXAMINE ALL EXISTING CONDITIONS WHICH AFFECT THE MORK THE SHALL SHORT THE STEED BY THE CONTRACTOR, THE OWNER MILL HAVE SUCH MORK DOOR OF THE PROPOSAL SHALL BE CONSIDERED BY DEAVE. THAT THIS DECORDERED HAS BEEN PULLIED. NO ETRA PAYTENT HILL BE ALLOWED FOR ADDITIONAL WORK MADE RECESSARY BY THE FAILURE TO VISIT THE SITE.

 PLUMBING EQUIPMENT, PIPNG, AND FIXTURES SHALL BE INSTALLED IN A NEAT AND MORKTWALKE IN ACCORDANCE WITH LATEST AND BEST PRACTICES OF THE TRADE. ONLY MECHANICS SHALLED IN THIS TYPE OF MORK SHALL BE EXPLOYED AND UTILIZED BY CONTRACTOR SHALL PROVIDE AND PRINTON OF THE WORK OF OTHER TRADE. ONLY THE LATOUT OF HIS MORK.

 THE CONTRACTOR SHALL PROVIDE AND PRINTS IN A CORDANCE SHALL BE EXPLOYED AND UTILIZED BY CONTRACT AND EQUIPMENT SIZE AND TYPE. THESE PRINTS SHALL BE CANALABLE AT THE SITE FOR INSPECTION AT ALL TIMES. AT THE CONTRACT DAY OF THE MORK, THE CONTRACTOR SHALL PROVIDE AND TYPE. THESE PRINTS SHALL BE CANALABLE AT THE SITE FOR INSPECTION AT ALL TIMES. AT THE CONTRACT DAY ONE PRODUCIBLE OF THE CONTRACT DAY ONE PRODUCIBLE OF THE CONTRACT DAY ONE PRODUCIBLE ON THE SITE OF THE FORT THE BUILDING STRUCTURE. AS A CONDITION, ALL CONCECNED. AND MILL SHOULD AS SHALL BE SHA
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- THE CONTRACTOR BY HIS ACCEPTANCE OF THE CONTRACT GUARANTEES THAT ALL WORK INSTALLED SHALL BE FREE FROM ALL DEFECTS IN WORKMANSHIP AND MATERIALS AND THAT ALL APPARATUS FURNISHED BY HIM SHALL DEVELOP THE CAPACITIES AND CHARACTERISTICS SPECIFIED. HE FURTHER GUARANTEES THAT IF, DURING A PERIOD OF ONE (1) YEAR FROM THE DATE OF THE CERTIFICATE OF COMPLETION AND ACCEPTANCE OF THE WORK, ANY SUCH DEFECTS IN WORKMANSHIP, MATERIAL OR PERFORMANCE APPEAR, SUCH DEFECTS SHALL BE REMEDIED BY HIM WITHOUT COST TO THE OWNER. IF THE CONTRACTOR FAILS TO REMEDY THE DEFECTS AS OUTLINED WITHIN A REASONABLE LENGTH OF TIME, TO BE SPECIFIED IN A NOTICE FROM THE OWNER'S AUTHORIZED REPRESENTATIVE TO THE CONTRACTOR, THE OWNER WILL HAVE SUCH WORK DONE, AND HE WILL CHARGE THE COST TO THE CONTRACTOR.
- THE CONTRACTOR SHALL VISIT THE SITE BEFORE HE SUBMITS HIS PROPOSAL. HE SHALL EXAMINE ALL EXISTING CONDITIONS WHICH AFFECT THE WORK. THE SUBMISSION OF THE PROPOSAL SHALL BE CONSIDERED EVIDENCE THAT THIS REQUIREMENT HAS BEEN FULFILLED. NO EXTRA PAYMENT WILL BE ALLOWED FOR ADDITIONAL WORK MADE NECESSARY BY THE FAILURE TO VISIT THE SITE.
- PLUMBING EQUIPMENT, PIPING, AND FIXTURES SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH LATES AND BEST PRACTICES OF THE TRADE. ONLY MECHANICS SKILLED IN THIS TYPE OF WORK SHALL BE EMPLOYED AND UTILIZED BY CONTRACTOR FOR THIS DIVISION IN THE EXECUTION OF THIS WORK. THE CONTRACTOR SHALL, WITHOUT ADDITIONAL COSTS TO THE OWNER, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT OF HIS WORK ORDER TO PREVENT CONFLICTS WITH THE WORK OF OTHER TRADES OR FOR THE PROPER EXECUTION OF HIS WORK.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN IN GOOD ORDER A COMPLETE SET OF BLUELINE PRINTS OF THE CONTRACT DRAWINGS. AS THE WORK PROGRESSES, THE ACTUAL LOCATION OF ALL WORK SHALL BE CLEARLY RECORDED, INCLUDING ALL CHANGES TO THE CONTRACT AND EQUIPMENT SIZE AND TYPE. THESE PRINTS SHALL BE AVAILABLE AT THE SITE FOR INSPECTION AT ALL TIMES. AT TH CONCLUSION OF THE WORK, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, OBTAIN A SET OF REPRODUCIBLES OF THE ORIGINAL CONTRACT DRAWINGS, SHALL INCORPORATE ALL "AS BUILT" DATA IN A CLEARLY LEGIBLE AND REPRODUCIBLE MANNER. ALL SCHEDULES SHALL BE CORRECTED TO INDICATE "AS BUILT" CONDITIONS. ALL REVISIONS SHALL BE INCORPORATED ON THESE REPRODUCIBLES INCLUDING ALL SKETCHES AND WRITTEN DIRECTIVES. ALL CONCEALED EQUIPMENT, MAINFEEDERS, PULL AND JUNCTION BOXES, ETC. SHALL BE DIMENSIONALLY LOCATED FROM THE BUILDING STRUCTURE. AS CONDITION FOR ACCEPTANCE OF THE WORK, THE "AS BUILT" REPRODUCIBLES AND ONE (1) SET OF PRINTS SHALL BE SIGNED, DATED AND DELIVERED TO THE ENGINEER.
- THE CONTRACTOR SHALL SUPPLY ALL LABOR REQUIRED TO PERFORM ALL WORK WHICH MAY BE CLAIMED BY TRADE ORGANIZATIONS WITHIN HIS JURISDICTION. ALL WORK SHALL BE PERFORMED WITHOUT ANY ADDITIONAL COST TO THE OWNER IRREGARDLESS OF WHICH SECTION OF THE CONTRACT DOCUMENTS THE WORK IS DESCRIBED. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY WITH ALL LOCAL ORGANIZATIONS THE EXTENT OF ANY COLLECTIVE BARGAINING AGREEMENTS AND/OR ANY JURISDICTIONAL DECISIONS RENDERED REGARDING DISPUTES BETWEEN THE RESPECTIVE TRADES, AND PROVIDE AND INSTALL HIS WORK IN ACCORDANCE WITH THE ACCEPTED TRADE PRACTICE IN THE AREA.
- THE ENTIRE INSTALLATION SHALL CONFORM WITH ALL PERTINENT CODES AND REGULATIONS OF THE LOCAL, MUNICIPAL, COUNTY, STATE, AND FEDERAL AUTHORITIES, THE NATIONAL BOARD OF FIRE UNDERWRITERS, THE CODES OF THE INTERNATIONAL CODES COUNCIL, THE CODES OF THE NATIONAL FIRE PROTECTIVE ASSOCIATION, THE NEW JERSEY UNIFORM CONSTRUCTION CODES, NATIONAL STANDARD PLUMBING CODE, AND ALL OTHER REGULATORY BODIES HAVING JURISDICTION. ALL MATERIALS AND EQUIPMENT SHALL BEAR THE STAMPS OR SEALS OF THE NFPA, ASME, NEMA, IEEE, UL AND OTHER RECOGNIZED INDUSTRY REGULATORY GROUPS.
- THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, PAY ALL GOVERNMENTAL TAXES, FEES AND OTHER COSTS IN CONNECTION WITH HIS WORK. HE SHALL FILE ALL NECESSARY PLANS, AND PREPARE ALL OTHER DOCUMENTS INCLUDING ADDITIONAL DETAILED PLANS THAT ARE REQUIRED FOR COMPLIANCE WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS.
- PROVIDE A LED LIGHTING IN THE CLASSROOMS, THE LIGHTING LEVELS SHALL BE IN ACCORDANCE WITH THE LATEST IES LIGHTING STANDARDS. LIGHTING FIXTURES SHALL BE LOW GLARE AND SHALL BE ARRANGED TO PROVIDE A UNIFORM LIGHT LEVEL THROUGHOUT EACH CLASS ROOM. THE LIGHTING POWER DENSITY SHALL NOT EXCEED THE WATT PER SQUARE FOOT ALLOWANCES STATED IN ASHRAE 90.1-2016. THE CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE FROM THE ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY HIS EMPLOYEES OR WORK. AT THE COMPLETION OF THE WORK, HE SHALL REMOVE ALL SUPERFLUOUS MATERIALS, EQUIPMENT AND DEBRIS RESULTING FROM THE WORK.
- PROVIDE LIGHTING CONTROLS FOR EACH CLASSROOM. LIGHTING CONTROLS SHALL BE IN ACCORDANCE WITH ASHRAE 90.1-2016 FUNCTION AS OUTLINED IN TABLE 9.6.1 IN ASHRAE 90.1-2016.
- SEE GENERAL ELECTRICAL NOTES FOR MORE INFORMATION

GENERAL

- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS, APPARATUS AND EQUIPMENT REQUIRED TO COMPLETE HIS ACCORDANCE WITH THE CONTRACT DOCUMENTS, CODES, LAWS AND ORDINANCES, AND ACCEPTED TRADE PROCEDURES.
- THE CONTRACTOR BY HIS ACCEPTANCE OF THE CONTRACT GUARANTEES THAT ALL WORK INSTALLED SHALL BE FREE FROM ALL DEFECTS IN WORKMANSHIP AND MATERIALS AND THAT ALL APPARATUS FURNISHED BY HIM SHALL DEVELOP THE CAPACITIES AND CHARACTERISTICS SPECIFIED. HE FURTHER GUARANTEES THAT IF, DURING A PERIOD OF ONE (1) YEAR FROM THE DATE OF THE CERTIFICATE OF COMPLETION AND ACCEPTANCE OF THE WORK, ANY SUCH DEFECTS IN WORKMANSHIP, MATERIAL OR PERFORMANCE APPEAR, SUCH DEFECTS SHALL BE REMEDIED BY HIM WITHOUT COST TO THE OWNER. IF THE CONTRACTOR FAILS TO REMEDY THE DEFECTS AS OUTLINED WITHIN A REASONABLE LENGTH OF TIME, TO BE SPECIFIED IN A NOTICE FROM THE OWNER'S AUTHORIZED REPRESENTATIVE TO THE CONTRACTOR, THE OWNER WILL HAVE SUCH WORK DONE, AND HE WILL CHARGE THE COST TO THE CONTRACTOR.
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- DEMO/MODIFY EXISTING SYSTEMS AS REQUIRED BUT NOT LIMITED TO CONTROLS, SEE GENERAL ELECTRICAL NOTES FOR MORE INFORMATION SMOKE DETECTORS,

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