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FLOOR LINE

DRAIN OUTLET COUPLINGS

HVAC

- SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING THEIR ASSOCIATED FEES.
- TOLERATED.
- DAMAGED INSULATED SURFACES OF ALL EXISTING DUCTWORK, PIPING 5 TO MATCH EXISTING WHERE NEW CONNECTIONS ARE BEING MADE.
- 5 SHALL PROVIDE A ONE YEAR WARRANTY ON ALL MATERIALS, EQUIPMENT AND DATE OF SUBSTANTIAL COMPLETION OF WORK EXCEPT AS FOLLOWS: PROVIDE A AND LABOR WARRANTY FOR CONDENSING UNIT AND ROOFTOP COMPRESSORS.
- 'HE GAUGES OF IRON FOR DUCTS AND CASINGS AND SIZE OF STRUCTURAL REINFORCING INGLES FOR DUCTS AND CASING SHALL BE SUCH AS TO PROVIDE ABSOLUTELY AIR TIGHT CONSTRUCTION FREE FROM PULSATION, DEFORMATION, OR VIBRATION AT NORMAL OPERATING RESSURES.
- ALANCE DUCT SYSTEMS NEW AND EXISTING) AS TO ACCOMPLISH AIR QUANTITIES SHOWN AT ALL INLETS/OUTLET SHOWN ON DRAWING AND SUBMIT TEST REPORT FOR REVIEW BY

5

ALL BE TYPE "K" COPPER WITH WROUGHT COPPER SOLDER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. INSULA IQUID LINES WITH 3/4" THICK AP/ARMAFLEX. PROVIDE EX/ RESISTANT FINISH. SULATE E EXTERIOR

6

- SHALL BE SCHEDULE 40 BLACK AND CONFORM WITH ASTM STANDARDS ZES 2 1/2" AND OVER AND SCREWED FOR PIPE SIZES 2" AND UNDER.
- PROVIDE GAS SHUT-OFF VALVE AT EACH PIECE OF EQUIPMENT AND PRESSURE REGULATORS WHERE REQUIRED. VENT ALL PRESSURE REGULATORS WITHIN THE BUILDING FULL SIZE TO

.7

- TEST AND CHARGE ALL G SHALL BE MINIMUM 50 NEW PIPING PSI HIGHER SYSTEMS AND THAN NORMAL
- ALL TEMPERATURE CONTROL WORK SHALL MATCH TRANE SUMMIT SYSTEM CURRENTLY NSTALLED IN BUILDING, CONTACT PAT HENEBERRY: 630-930-2551. ROVIDE MIRO PIPE CURBS ON TOP 3/4" RUBBER ROOF GUARD PAD FOR NEW PIPE CONDUITS MAXIMUM 6' ON CENTER.

ELECTRICAL **SPECIFICATIONS**

OF NATIONAL ELECTRIC

- PROVIDE ALL PERMITS AND INSPECTION FEES
- ₽E MATERIAL AND LABOR SHALL BE GUARANTEED THE OWNER. AFTER
- THIS CONTI REMOVAL, CONTRACTOR SHALL PROVIDE ALL THEIR OWN RIGGING, WAL, AND LEAVE SPACE BROOM CLEAN. SCAFFOLDING,
- MINIMUM SIZE CONDUIT SHALL BE 3/4" EMT, PROVIDE IMC FOR CONDUITS 2" AND LARGER WHERE EXPOSED TO WET OR DAMP LOCATIONS. EMT FITTINGS SHALL BE COMPRESSION TO IMC SHALL HAVE THREADED CONNECTIONS. TRANSITION TO LIQUID-TIGHT FLEXIBLE METAL CONDUIT FOR FINAL CONNECTION (MAXIMUM LAST 6 FEET) OF CONDUCTORS SERVING EQUIPMENT SUBJECT TO VIBRATION.
- MINIMUM SIZE CONDUCTOR SHALL BE #12 THHN, OR THWN WHERE REQUIRED, WITH #14 FOR CONTROL WIRING. CONDUCTOR MATERIAL SHALL BE COPPER ONLY.

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- PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL RACEWAYS.
- AD BR ANCH CIRCUIT CONDUCTORS FOR 20 AMP JUSTED FOR VOLTAGE DROP: 120/208V: 0-75' - #12AWG MINIMUM RECEPTACLES AND LIGHTING

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- Ġ 75'-150' -150'-225' -0-100' -
- E I PROVIDE ALL NECESSARY CUTTING AND PATCHING
- ALL NEW CIRCUIT BREAKERS SHALL BE BOLT-ON BREAKERS, COMPATIBLE WITH EXISTING PANELBOARD. AIC RATING OF NEW BREAKERS SHALL MATCH THE EXISTING PANELBOARD MAIN FULL RATING. PROVIDE TYPEWRITTEN DIRECTORIES IN ALL PANELS.
- BEFORE SUBMITTING THEIR BID, THE ELECTRICAL CONTRACTOR SHALL VISIT ASCERTAIN ALL WORK INVOLVED IN THE PROJECT.
- IS CONTRACTOR SHALL COORDINATE THEIR WORK WITH OTHER CONTRACTORS
- THIS CON PROJECT
- THIS CONTRACTOR SHALL MAKE NECESSARY ELECTRICAL ITEMS AND EQUIPMENT AS MAY S AND ADJUSTMENTS BY THIS WORK.
- A FLEXIBLE RACEWAY SYSTEMS SHALL NOT BE USED TO PENETRATE ROOFS, FLOORS, AIR/MOISTURE BARRIERS. ELECTRICAL EQUIPMENT MUST MAINTAIN WORKING CLEARANCES AS REQUIRED BY NEC
- RACEWAY SYSTEMS SHALL NOT OR IN HVAC

CONFORM TO GENERAL REMODELING NOTE

CONSIDERED

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NTRACTORS

IN CONTRACT UNL

- .> DRAWINGS ARE GENERALLY DIAGRAMMATIC. ROUTING OF PIP RACEWAYS, ETC., AS SHOWN ON DRAWINGS, DOES NOT INTEN OFFSET, FITTING NOR EVERY STRUCTURAL ELEMENT THAT MINSTALLATION OF THIS WORK. EACH CONTRACTOR SHALL MATTHE GENERAL ROUTING SHOWN ON THESE DRAWINGS, SUCH A IN ELEVATION DUE TO COORDINATION WITH THE WORK OF OTCONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT AD DELAY IN COMPLETION DATE OF THE PROJECT. TO SHOW EVERY RISE, DROP, TO SHOW EVERY RISE, DROP, BE ENCOUNTERED DURING THE ANY REQUIRED CHANGES FROM OFFSETS, BENDS OR CHANGES R TRADES AND BUILDING TONAL COST TO THE OWNER OR
- IT IS INTENDED THAT EQUIPMENT SHALL BE LOCATED SYMMETRICALLY WITH THE ARCHITECTURAL ELEMENTS OF THE BUILDING, NOTWITHSTANDING THE FACT THAT INDICATED BY THESE DRAWINGS MAY BE DISTORTED FOR CLEARNESS OF PRESEN T THAT LOCATIONS PRESENTATION.

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CONTRACTOR SHALL CHECK DRAWINGS OF OTHER TRADES TO VERIFY THAT SPACES IN WHICH THEIR WORK WILL BE INSTALLED ARE CLEAR OF OBSTRUCTIONS. WORK SHALL BE INSTALLED TO MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS IN THE BUILDING. WHERE HEADROOM OR SPACE CONDITIONS APPEAR INADEQUATE, CONTRACTOR SHALL NOTIFY OWNER/ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE INSTALLATION OF THEIR WORK.

4.

- CONTRACTOR SHALL FURNISH OTHER TRADES ADVANCE INFORMATION AND/OR SHOP DRAWINGS ON LOCATIONS AND SIZES OF PIPING, DUCTWORK, CONDUIT, RACEWAYS, EQUIPMENT, FRAMES, BOXES, SLEEVES AND OPENINGS, ETC. NEEDED FOR THEIR WORK TO PERMIT OTHER TRADES AFFECTED TO INSTALL THEIR WORK PROPERLY AND WITHOUT DELAY.
- THERE IS EVIDENCE THAT WORK OF ONE TRADE WILL INTERFERE WITH WORK OF OTHER 5, ALL TRADES SHALL MEET ON JOB SITE TO WORK OUT SPACE CONDITIONS AND MAKE ACTORY ADJUSTMENTS TO INSTALLATION OF THE NEW WORK. CONTRACTORS SHALL EXACT LOCATIONS OF ALL DEVICES AND EQUIPMENT WITH FIELD CONDITIONS, SHOP NIGS, AND WORK OF OTHER TRADES PRIOR TO ROUGH-IN. EACH CONTRACTOR SHALL BE USUALLY AT THEIR OWN EXPENSE, FOR THE REMOVAL AND REINSTALLATION OF ANY PART SINGER WORK IF SAME WAS INSTALLED WITHOUT CONSULTING WITH OTHER TRADES BEFORE

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- CONTRACTOR SHALL PROVIDE SLEE ON THE DRAWINGS, AS REQUIRED I INSTALLING THEIR WORK. ALL BE, SHALL BE CUT AND REINFORCED A SIZES SHALL BE CHECKED AND AP STRUCTURAL BUILDING MEMBER. LL PROVIDE SLEEVES IN BEAMS, AS REQUIRED BY JOB SITE OF WORK. ALL BEAMS AND COLLID REINFORCED AS REQUIRED BY ASSECTED AND APPROVED BY ASSECTED AND APPROVED BY ASSECTED BY ASS S IN BEAMS, FLOORS, COLUMNS AND WALLS AS SHOWN JOB SITE CONDITIONS, AND/OR AS SPECIFIED, WHEN AND COLUMNS WHICH ARE REQUIRED TO BE SLEEVED REQUIRED BY FIELD CONDITIONS AND LOCATIONS AND OVED BY ARCHITECT BEFORE CONTRACTOR CUTS ANY
- THE SEQUENCE FOR THE INSTALLATION OF ALL WORK SHALL BE CCONTRACTORS ON THE PROJECT AND IN STRICT ACCORDANCE WITOWNERS STIPULATION AS DIRECTED. OORDINATED BETWEEN ALL ARCHITECT/ENGINEER AND
- CONTRACTOR SHALL REFER TO THE ARCHITECTURAL AND STRUCTURAL (BEFORE SUBMITTING THEIR BIDS) TO FAMILIARIZE THEMSELVES WITH GENERAL CONTRACTOR'S WORK, CEILING HEIGHTS AND CLEARANCE FOR TURAL CONTRACT DRAWINGS WITH THE EXTENT OF THE E FOR INSTALLING THEIR

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REPAIRING, REFINISHING AND REMOVAL/REPLACEMENT OF NEW OR EXISTING BUILDING CONSTRUCTION REQUIRED TO ACCOMMODATE THE INSTALLATION OR REMOVAL OF THEIR WORK. ALL PATCHING, REPAIRING AND REFINISHING WORK SHALL BE PERFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE ADJACENT CONSTRUCTION AS CLOSELY AS POSSIBLE. CARE SHALL BE TAKEN SO AS NOT TO DAMAGE ANY EXISTING BUILDING CONSTRUCTION OR ITEMS THAT ARE TO REMAIN. ANY EXISTING FINISHES THAT ARE DAMAGED DURING THE INSTALLATION OF NEW WORK OR REMOVAL OF EXISTING WORK SHALL BE REPAIRED, REPLACED AND PAID FOR BY THE INSTALLING CONTRACTOR, TO THE SATISFACTION OF THE ARCHITECT AND OWNER. REFER TO ARCHITECTURAL DRAWINGS FOR EXISTING BUILDING CONSTRUCTION THAT IS TO REMAIN AND, THEREFORE, SUBJECT TO PATCHING, REPAIRING, AND REMOVAL/REPLACEMENT. (NOTE: CONTRACTOR SHALL VERIFY EXISTING BUILDING'S ROOF WARRANTY AND EMPLOY OTHER SUBCONTRACTOR(S) AS REQUIRED BY ROOF MANUFACTURER'S REPRESENTATIVE SO AS NOT TO VOID OWNER'S ROOF WARRANTY.) CUTTING, PATCHING, EXISTING BUILDING

24.

- OF THE E E EXISTING ITEMS , OWNER. ANY ITE IMS AND EQUIPMENT SCHEDULED TO BE REMOVED SHAY ITEMS THAT THE OWNER WANTS TO RETAIN SHALL DAMAGE THEM. ALL OTHER ITEMS TO BE REMOVED NTRACTOR AND REMOVED FROM THE SITE. REMOVED SHALL BE TURNED ETAIN SHALL BE REMOVED BE REMOVED SHALL BECOME
- CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR OWN CLEAN-UP CONTRACTOR FAILS TO PROVIDE SUCH CLEAN-UP, THE ARCHITECT ANOTHER CONTRACTOR TO PERFORM THE CLEAN-UP AND THE NEW PAY THE ASSOCIATED BACK-CHARGES AS DEEMED APPROPRIATE P DURING CONSTRUCTION. IF CT/ENGINEER WILL DIRECT LEGLIGENT CONTRACTOR SHALL BY THE ARCHITECT/ENGINEER.
- 7 R SHALL INSTALL AL 3 OF THEIR PIPING, I 3 STEEL FOR ITEMS, L MEMBERS ONLY. ALL AUXILIARY SUPPORTING

 , DUCTWORK, CONDUIT, TAN

 15 ABOVE A SUSPENDED CEIL TING STEEL AS REQUIRED FOR THE TANKS, EQUIPMENT, ETC. ALL CEILING SHALL BE FROM BUILDING

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- NON-INTERRUPTED OPERATION DURING REMODELING/ALTERING OF SA
 THE SPECIFIC AREA(S) BEING REMODELED/ALTERED AT ANY SCHEDL
 EXCLUSIVE OF THIS STATEMENT. SERVICES TO EXISTING BUILDING S
 CONTINUOUS OPERATION INCLUDING POWER, SIGNAL SYSTEMS, LIGHT
 COOLING, VENTILATING, TEMPERATURE CONTROL, SEWERS AND HOT
 ABSOLUTELY NECESSARY INTERRUPTION OF THESE SERVICES TO ACC
 SHALL BE ARRANGED WITH THE OWNER A MINIMUM OF TEN (10) WOR
 SUCH INTERRUPTIONS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AS COOLING, VENTILATING, TEMPERATURE CONTROL, SEWERS AND HOT ABSOLUTELY NECESSARY INTERRUPTION OF THESE SERVICES TO ACC SHALL BE ARRANGED WITH THE OWNER A MINIMUM OF TEN (10) WORLS SHALL BE ARRANGED WITH THE OWNER A MINIMUM OF TEN (10) WORLS INVOLVED AND TEMPORARY SERVICES SHALL BE FURNISHED AND CONTRACT WHERE NECESSARY TO ACCOMPLISH THIS PURPOSE. TEMPOVED BY THE CONTRACTOR ONLY AFTER NEW PERMANENT SERVIFULLY OPERATIONAL. DING REMAIN IN CONTINUOUS AND TERING OF SAID EXISTING BUILDING.

 ANY SCHEDULED TIME ARE OBVIOUSLY NG BUILDING SHALL BE KEPT IN STEMS, LIGHTING, TELEPHONE, HEATING, RS AND HOT AND COLD WATER. ANY VICES TO ACCOMPLISH CONTRACT WORK TEN (10) WORKING DAYS IN ADVANCE. E MINIMUM AS FAR AS TIME INTERVAL RNISHED AND INSTALLED UNDER THIS JRPOSE. TEMPORARIES SHALL BE MANENT SERVICES ARE INSTALLED AND
- CATED OTHERWISE, THE ARCHITECT/ENGINEER MAKES NO NOT ANY HAZARDOUS OR CONTAMINATED MATERIALS (1125, PCB'S, CONTAMINATED SOILS, ETC.) ARE PRESENT WIS ON THE SITE. WORK SHOWN ON THE DRAWINGS AND/ORDNS SHALL NOT BE CONSTRUED TO CALL FOR CONTACT IN THESE MATERIALS ARE ENCOUNTERED OR SUSPECTED IF THESE MATERIALS ARE ENCOUNTERED OR SUSPECTED DISTURB THEM AND SHALL CONTACT THE ARCHITECT/ENCOUNTERED OR SUSPECTED. ES NO REPRESENTATION AS TO ALS (INCLUDING BUT NOT LIMITED ENT WITHIN THE EXISTING ND/OR INDICATED IN THE ACT WITH ANY OF THESE PECTED, THE CONTRACTOR T/ENGINEER IMMEDIATELY.

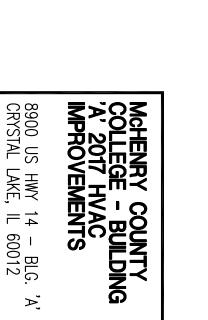
- <u>6</u> WHERE WORK CALLED FOR ON THE DRAWINGS OR IN THE SPECIFICATIONS INVOLVES THE REMOVAL OR RELOCATION OF PIPING OR EQUIPMENT CONTAINING REFRIGERANT, ALL REFRIGERANT SHALL BE RECOVERED BY APPROVED METHODS PER EPA REGULATIONS.
- 7. CONTRACTOR SHALL STORE ALL MATERIALS AND EQUIPMENT SHIPPED TO THE SITE IN A PROTECTED AREA. IF MATERIAL IS STORED OUTSIDE OF THE BUILDING, IT MUST BE STORED OFF THE GROUND A MINIMUM OF SIX INCHES (6") SET ON 6 X 6 PLANKS AND/OR WOOD PALLETS. ALL MATERIAL AND EQUIPMENT MUST BE COMPLETELY COVERED WITH WATERPROOF TARPS OR VISQUIN. ALL PIPING AND DUCTWORK WILL HAVE THE ENDS CLOSED TO KEEP OUT DIRT AND OTHER DEBRIS. NO EQUIPMENT WILL BE ALLOWED TO BE STORED OUTSIDE THE BUILDING ON THE SITE UNLESS IT IS SUPPORTED OFF THE GROUND AND COMPLETELY PROTECTED WITH WEATHERPROOF COVERS.
- IB. THE DRAWINGS, SCHEDULES AND SPECIFICATIONS HAVE BEEN PREPARED USING ONE MANUFACTURER FOR EACH PIECE OF EQUIPMENT AS THE BASIS FOR DIMENSIONAL DESIGN. IF THE CONTRACTOR PURCHASES EQUIPMENT FROM A SPECIFIED ACCEPTABLE MANUFACTURER, BUT NOT THE SCHEDULED MANUFACTURER USED FOR THE BASE DESIGN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL THE DIMENSIONS OF THE EQUIPMENT TO VERIFY THAT IT WILL FIT IN THE SPACE SHOWN ON THE DRAWINGS. MINOR DEVIATIONS IN DIMENSIONS WILL BE PERMITTED, PROVIDED THE RATINGS MEET THOSE SHOWN ON THE DRAWINGS AND EQUIPMENT WILL PHYSICALLY FIT INTO THE SPACE ALLOCATED WITH SUITABLE ACCESS AROUND EQUIPMENT FOR OPERATION AND MAINTENANCE OF THE EQUIPMENT. WHEN EQUIPMENT SUBMITTED FOR REVIEW DOES NOT MEET THE PHYSICAL SIZE OR ARRANGEMENT OF THAT SCHEDULED AND SPECIFIED, CONTRACTOR SHALL PAY FOR ALL ALTERATIONS REQUIRED TO ACCOMMODATE SUCH EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR WILL ALSO PAY ALL COSTS FOR ADDITIONAL WORK REQUIRED BY OTHER CONTRACTORS, OWNER, ARCHITECT OR ENGINEER TO MAKE CHANGES WHICH WOULD ALLOW THE EQUIPMENT TO FIT IN THE SPACE AND FUNCTION AS INTENDED.
- CONTRACTOR AND/OR MANUFACTURER SHALL VERIFY THAT THE CHARACTERISTICS OF THE EQUIPMENT HE SUBMITS FOR REVIEW MEET THE CAPACITY AND DUTY SPECIFIED. WHEN EQUIPMENT SUBMITTED FOR REVIEW REQUIRES MODIFICATIONS TO THE WORK OF OTHER CONTRACTORS, SUBMITTING CONTRACTOR SHALL PAY FOR ALL COSTS FOR ADDITIONAL WORK REQUIRED BY OTHER CONTRACTORS, OWNER, ARCHITECT OR ENGINEER TO MAKE CHANGES WHICH WOULD ALLOW THE EQUIPMENT FUNCTION SAFELY AND PROPERLY.
- 20. CONTRACTOR SHALL FIELD VERIFY THE SIZE OF EXISTING OPENINGS, WINDOWS, DOORS, CORRIDORS, ROOMS, ETC. FOR ACCESS OF THE NEW EQUIPMENT INTO OR REMOVAL OF EXISTING EQUIPMENT FROM THE BUILDING. IF OPENINGS ARE TOO SMALL FOR ACCESS THEN CONTRACTOR SHALL, AT HIS OWN EXPENSE, PROVIDE NEW OR ENLARGED OPENINGS AND RESTORE SAME TO ORIGINAL SIZE AND CONDITION. CONTRACTOR MAY ELECT TO ORDER THE EQUIPMENT DISASSEMBLED AND/OR WITH SPLIT HOUSING FOR ENTRANCE INTO THE EXISTING SPACE OR BUILDING. CONTRACTOR SHALL REASSEMBLE EQUIPMENT AFTER IT IS IN THE SPACE AT HIS OWN EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND THEIR ASSOCIATED FEES.
- CONTRACTOR SHALL SUBMIT ELECTRONIC COPIES OF SHOP DRAWINGS OF ALL EQUIPMENT, TEMPERATURE CONTROL SYSTEM, BOILERS, VALVING, FLUE PIPING, PANELBOARDS, ELECTRICAL DEVICES TO ENGINEER FOR APPROVAL PRIOR TO ORDERING ANY ITEMS OR FABRICATING ANY DUCTWORK/PIPING.

23.

- CONTRACTOR SHALL PROVIDE OWNER TRAINING ON ALL EQUIPMENT AND BUILDING SYSTEMS PROVIDED/ALTERED BY HIS WORK. TRAINING SHALL BE ACCOMPLISHED DURING TIME DEDICATED FOR THAT PURPOSE, NOT IN CONJUNCTION WITH SERVICE WORK. SEE SPECIAL TEMPERATURE CONTROL TRAINING INSTRUCTIONS ELSEWHERE.
- AT COMPLETION OF PROJECT, CONTRACTOR SHALL SUBMIT ELECTRONIC COPIES OF OPERATION AND MAINTENANCE MANUALS FOR ALL WORK PROVIDED BY HIM ON PROJECT. MANUALS SHALL BE CLEARLY ORGANIZED AND CONTAIN COPIES OF APPROVED EQUIPMENT, SHOP DRAWINGS, EQUIPMENT PARTS LISTS, SERVICE CONTACTS, CONTRACTOR AND MANUFACTURER WARRANTEES, AND "AS BUILT" FLOOR PLANS.
- CONTRACTOR SHALL PROVIDE WARRANTY FOR ALL MATERIAL AND GUARANTEE ALL WORKMANSHIP PROVIDED BY HIM FOR I (ONE) YEAR FROM SUBSTANTIAL COMPLETION OF WORK INVOLVED.

25.

- 26. CONTRACTOR SHALL MAINTAIN A CURRENT LICENSE THROUGHOUT ALL PHASES OF CONSTRUCTION WITH THE CODE ENFORCING BODY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE ALL INSPECTIONS WITH CODE ENFORCING BODY.
- IDENTIFY ALL PIPING AND DUCTWORK WITH PLASTIC LABELS INDICATING CONTENTS AND FLOW DIRECTION. MARKERS TO BE PLACED AT A MAXIMUM OF 50 FT. INTERVALS AT BRANCH CONNECTIONS, AND AT BOTH SIDES OF WALL/FLOOR PENETRATIONS. IDENTIFY VALVES, EQUIPMENT, AND PANELS WITH ENGRAVED 3-LAYER PLASTIC LAMINATED TAGS OR SIGNS.



MECHANICAL/ NOTES ENGINEERING GROUP LLC

nical - Electrical Engineers 1216 Tower Road Schaumburg, Illinois 60173 847.882.2010 Fax 847.882.2201

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