Special Education District of Lake County 18160 West Gages Lake Road Gages Lake, Illinois 60030 HVAC Replacement Project Administration Building

GENERAL DEMOLITION NOTES

- REMOVE EXISTING CONSTRUCTION AS REQUIRED FOR INSTALLATION OF NEW CONSTRUCTION. REFER TO ALL CONTRACT DOCUMENTS FOR EXTENT OF DEMOLITION AND NEW WORK
- WHERE DEMOLITION WORK HAS BEEN DONE, THE FINISH QUALITY OF THE ADJACENT SURFACES SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION WITH NO VISIBLE SIGN THAT WORK HAS BEEN DONE.
- 3 ALL CONTRACTORS ARE RESPONSIBLE FOR UNDERSTANDING THEIR SCOPE OF WORK RELATIVE TO THE ENTIRE SET OF CONTRACT DOCUMENTS.
- ALL WALL-MOUNTED ACCESSORIES THAT ARE REMOVED SHALL BE TURNED OVER TO OWNER AND MOVED TO A LOCATION ON SITE DETERMINED BY OWNER.
- WHERE MASONRY WALLS HAVE BEEN REMOVED, GRIND FLOOR SLAB & PATCH FLOOR SMOOTH TO ACCEPT FLOOR FINISH.
- 5. WHERE MASONRY WALLS HAVE BEEN REMOVED, REMOVE THE EXISTING EXPOSED WALL ANCHORS TO BEYOND FACE OF EXISTING TO REMAIN. PATCH HOLE(S) OR REPLACE MASONRY TO MATCH EXISTING CONDITIONS.
- BROOM SWEEP ALL AREAS DAILY AND AT COMPLETION OF DEMOLITION.
- 3. DEMOLISH EXISTING ELECTRICAL DEVICES INCLUDING BACKBOXES AND RACEWAY BACK TO FIRST DEVICE NOT AFFECTED BY WORK. WHERE EXISTING ELECTRICAL DEVICE IS WITHIN MASONRY WALL. REMOVE WIRE AND BACKBOX.

GENERAL NOTES

- I. VERIFY ALL EXISTING CONDITIONS & DIMENSIONS IN THE FIELD. 2. COORDINATE ALL WORK SHOWN ON FLOOR AND CEILING PLANS WITH ALL OTHER TRADES PRIOR TO THE START OF WORK.
- 3. SEE PLAN FOR ALL DOOR AND BORROWED LIGHT OPENINGS AND PROVIDE LINTEL IN ACCORDANCE WITH PROJECT NOTES. 4. ALL INTERIOR PARTITIONS SHALL BE FULL HEIGHT TO UNDERSIDE
- OF ROOF, U.N.O.. 5. ALL INTERIOR GYPSUM WALLS SHALL BE 5" UNLESS NOTED OTHERWISE.
- 6. ALL DIMENSIONS SHOWN ARE TO FACE OF FINISHED WALL.
- 7. PAINT EXPOSED SURFACES NOT FACTORY FINISHED INCLUDING -EXISTING TO REMAIN, NEW, MECHANICAL, ELECTRICAL, AND PLUMBING TO MATCH ROOM FINISH.
- 8. WHERE WORK HAS BEEN DONE ADJACENT TO EXISTING TO REMAIN, THE FINISH QUALITY OF WORK SHALL BE SUCH THAT THERE IS NO VISIBLE SIGN THAT WORK HAS BEEN DONE.

- SCOPE.

- WORK.

9. PROVIDE NEW SOAPED MASONRY, SIZE TO MATCH EXISTING, AT ELECTRICAL BACKBOXES REMOVED. MASON CONTRACTOR TO COORDINATE WITH ELECTRICAL DEMO DRAWINGS.

10. INDIVIDUAL CMU/BRICK TO REMAIN WITH OPENINGS TOTALING LESS THAN 3/4" DIA. MAY BE PATCHED. UNITS WITH OPENINGS EQUAL TO OR GREATER THAN 3/4" DIA. SHALL BE REPLACED.

II. EXISTING MARKER BOARD AND TACK BOARD TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION OR REMOVED AND STORED IN A DESIGNATED AREA SELECTED BY OWNER, AND REINSTALLED PRIOR TO SUBSTANTIAL COMPLETION. 12. NAILS, SCREWS AND OTHER HANGERS IN WALLS SHALL BE REMOVED, WALLS SHALL

BE PATCHED AND PAINTED TO MATCH ADJACENT WALL TO REMAIN. 13. CONTRACTOR TO REVIEW EXISTING CONDITIONS AND CONTRACT DOCUMENTS AND

INCLUDE ALL WORK, MATERIALS AND LABOR REQUIRED TO PROVIDE COMPLETE

BUILDING INFORMATION

BUSINESS

<u>CLASSIFICATIONS</u>

FIRE SUPRESSION

CONSTRUCTION TYPE:

FULLY SPRINKLERED W/DRY PIPE SYSTEM IN ATTIC

PER N.F.P.A. 72A, and N.F.P.A. 72E

FIRE ALARM & DETECTION:

TOTAL GROSS BUILDING AREA (EXISTING) FIRST FLOOR 29,655 SF 1.774 SF ME77ANINE TOTAL AREA 31,429 SF

BUILDING CODES

PRINCIPAL BUILDING CODES:

- 23 ILLINOIS ADMINISTRATIVE CODE 180, 2016
- INTERNATIONAL BUILDING CODE 2015
- INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2015
- INTERNATIONAL FIRE CODE (IFC) 2015
- INTERNATIONAL FUEL GAS CODE (IFGC) 2015
- 6. INTERNATIONAL MECHANICAL CODE (IMC) 2015
- INTERNATIONAL ELECTRICAL CODE (IEC) 2015
- INTERNATIONAL PROPERTY MAINTENANCE CODE (IPMC) 2015
- 9. NATIONAL ELECTRIC CODE N.F.P.A. 72 2005
- 10. ILLINOIS PLUMBING CODE -2014
- II. ILLINOIS ENERGY CONSERVATION CODE 2018
- 12. ILLINOIS ACCESSIBILITY CODE 2018
- 13. AMERICANS WITH DISABILITIES ACT 2010
- 14. ILLINOIS STATE FIRE MARSHAL'S RULES -BOILER AND PRESSURE VESSEL SAFETY CODE, 2013

ALTERNATES

ALTERNATE #1:	FINNED TUBE RADIATION REMOVAL
ALTERNATE #2:	ACOUSTICAL TILE CEILING REPLACEMENT
ALTERNATE #3:	ACOUSTICAL TILE CEILING REPLACEMENT
ALTERNATE #4:	FIRE SUPPRESSION REPLACEMENT
ALTERNATE #5:	RADIANT CEILING PANEL REMOVAL
ALTERNATE #6:	BAS CONTRACTOR

9. PATCH, PAINT EXISTING H.M. FRAMES AND H.M. DOORS IN AREAS OF WORK BEING PAINTED AND FRAMES AND DOORS AFFECTED BY

IO. COORDINATE WITH MEP FOR PENETRATIONS.

II. BROOM SWEEP ALL AREAS DAILY.

12. MAINTAIN SITE FREE FROM CONSTRUCTION MATERIALS, INCLUDING LANDSCAPING, DIRT AND DEBRIS.

13. REFER TO ALL DRAWINGS FOR ADDITIONAL GENERAL NOTES APPLICABLE TO ALL CONTRACTORS.

DRAWING INDEX CS PROJECT TITLE, BUILDING INFO, DRAWING INDEX, GENERAL ELECTRICAL DEMOLITION NOTES, GENERAL NOTES DE1.0 ELECTRICAL DEMOLITION PLANS DE1.1 ELECTRICAL MECHANICAL DEMOLITION PLANS ARCHITECTURAL ARCHITECTURAL DEMO FLOOR PLANS AD1.0 E1.0 ELECTRICAL PLANS ARCHITECTURAL DEMO CEILING PLAN LIGHTING PLANS E1.1 ARCHITECTURAL FLOOR PLANS A1 0 E4.0 ELECTRICAL SYMBOL LIST ARCHITECTURAL CEILING PLAN A1 1 ELECTRICAL NOTES AND DETAILS E4.1 ELECTRICAL DETAILS E4.2 A2.0 FIRE SEPARATION REFERENCE PLAN E5.1 ELECTRICAL SCHEDULES ROOM NAME/NUMBER REFERENCE PLAN A3.0 E6.0 ELECTRICAL RISER DIAGRAM HVAC/ELECTRICAL/PLUMBING MECHANICAL/PLUMBING ME1.1 MECHANICAL/ELECTRICAL NOTES AND DETAILS FP1.1 FIRE PROTECTION PLAN HVAC FP2.1 FIRE PROTECTION GENERAL NOTES DHV1.1 VENTILATION DEMOLITION PLAN - AREA A - PHASE 1 DHV1.2 VENTILATION DEMOLITION PLAN - AREA B - PHASE 1 P1.1 PARTIAL PLUMBING PLAN DHV1.3 VENTILATION DEMOLITION PLAN - AREA C AND D - PHASE 1 AND 2 DHV1.4 VENTILATION DEMOLITION PLAN - AREA E - PHASE 2 P2.1 PLUMBING GENERAL NOTES AND SCHEDULES DHV1.5 VENTILATION DEMOLITION PLAN - AREA F - PHASE 2 DHV2.1 HVAC PIPING DEMOLITION PLAN - PHASE 1 AND 2 HV1.1 VENTILATION PLAN - AREA A - PHASE 1 VENTILATION PLAN - AREA B - PHASE 1 HV1.2 VENTILATION PLAN - AREA C AND D - PHASE 1 AND 2 HV1.3 VENTILATION PLAN - AREA E - PHASE 2 HV1.4 HV1.5 VENTILATION PLAN - AREA F - PHASE 2 HV1.6 MEZZANINE VENTILATION PLANS HV2.0 HVAC SITE PLAN HVAC PIPING PLAN - PHASE 1 AND 2 HV2.1 HVAC LEGEND, NOTES, AND DETAILS HV4.0 HV4.1 HVAC DETAILS HVAC SCHEDULES HV5.0 HV5.1 HVAC SCHEDULES

CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS AND SPECIFICATIONS FOR SPECIAL EDUCATION DISTRICT OF LAKE COUNTY 825. LOCATED IN GAGES LAKE, ILLINOIS, WERE PREPARED UNDER MY SUPERVISION AND, TO THE BEST OF MY KNOWLEDGE, COMPLY WITH ISBE 23 ILLINOIS ADMINISTRATIVE CODE 180 AND ALL APPLICABLE CODES AND ORDINANCES OF LAKE COUNTY, IL.

ARCHITECT: GRAVESDESIGNGROUP

MEPFP ENGINEER: 20/10 ENGINEERING GROUP, LLC

Signature of Architect Date of Expiration

License Number

License Number

Signature of Engineer Date of Expiration









- ALTERNATE #3 -REMOVE ACOUSTICAL TILE CEILING IN DI43, DI46, AND DI52 AREAS

> REFER TO COVER SHEET DRAWING 'CS' FOR ADDITIONAL GENERAL NOTES. CONTRACTORS SHALL REFER TO ALL DRAWINGS TO VERIFY THE EXTENT OF THEIR WORK. ALL CEILING MOUNTED DEVICES ARE NOT SHOWN. FIELD VERIFY CEILING MOUNTED DEVICES.







ALTERNATE #3 -PROVIDE TYPE 'CI' ACOUSTICAL TILE CEILING IN PASSAGE DIO4, DIIO, AND DII3

KEYED NOTES

- PATCH GYPSUM WALLBOARD ABOVE CEILING WHERE EQUIPMENT, PIPE, DEVICES ARE REMOVED OR INSTALLED. 2 AS PART OF ALTERNATE #5 RADIANT PANEL REMOVAL - PATCH CEILING GRID

REFER TO COVER SHEET DRAWING 'CS' FOR ADDITIONAL GENERAL NOTES. CONTRACTORS SHALL REFER TO ALL DRAWINGS TO VERIFY THE EXTENT OF THEIR WORK.

- ALL EXISTING AND NEW CEILING MOUNTED DEVICES TO BE REMOVED, REMAIN, BE REINSTALLED, PROVIDED ARE NOT INDICATED. FIELD VERIFY CEILING MOUNTED DEVICES. REFER TO HV/MEP/FP DRAWINGS FOR NEW DEVICES.
- ADJUST EXISTING ACOUSTICAL TILE CEILING TO REMAIN FOR NEW WORK.

ACOUSTICAL TILE CEILING +/- 8'-0", U.N.O.













LEGEND	
NEW NAME AIO2 OLD NAME AIO2 AIO2 AIO2 NAME AND NUMBER	
NEW NAME AND NUMBER ON NUMBER BELOW.	TØ
WHERE ONLY ONE IS SHOWN	- 1



OP, OLD NAME AND THERE IS NO CHANGE.









I. CONTRACTOR SHALL ISOLATE ALL PIPES WHICH VIBRATE FROM CONSTRUCTIO AVOID TRANSMISSION TO STRUCTURE.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THEIR WAL WITH OTHER TRADES AND/OR CONTRACTORS.

PIPE PENETRATION OF EXTERIOR WALL ABOVE NO SCALE

GENERAL REMODELING NOTES - ALL CONTRACTORS

- THE OWNER OR DELAY IN COMPLETION DATE OF THE PROJECT.
- PRESENTATION.
- OWNER/ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE INSTALLATION OF THEIR WORK.
- TO PERMIT OTHER TRADES AFFECTED TO INSTALL THEIR WORK PROPERLY AND WITHOUT DELAY.
- BEFORE INSTALLING THEIR WORK.
- IN STRICT ACCORDANCE WITH ARCHITECT/ENGINEER AND OWNERS STIPULATION AS DIRECTED.
- INSTALLING THEIR WORK.
- ROOF WARRANTY.)
- REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE SITE.
- STRUCTURAL MEMBERS ONLY.



NOTE:

WITH SILICONE OR OTHER		IDENTIFICATION MARKERS OR STRIPS TO BE F UNCOVERED PIPES AT 50'-0" INTERVALS, ADJ AT BOTH SIDES OF WALL/FLOOR PENETRATION IDENTIFICATION MARKERS SHALL ALSO BE PLA	PLACED ON ALL EXPOSED ACENT TO ALL VALVES C IS. ARROWS OF SAME ACED ON PIPES POINTING	D COVERED AND DR BRANCHES, A COLOR AS G AWAY FROM N
OVED SEALANTS		INDICATING DIRECTION OF FLOW.		
	PACK VOID BETWEEN PIPE OR INSULATION	SIZE OF LEG	END LETTERS	
IOR SIDE OF WALL. IC WATERTIGHT JOINT AROUND PIPE PLATE	AND WALL WITH FIBERGLASS BATT, THEN SEAL WITH A SILICONE COMPOUND OR OTHER APPROVED SEALANTS. IF WALL	OUTSIDE DIAMETER OF PIPE OR COVERING	Length Of Color Field A	SIZE OF LETTERS B
LESS STEEL, CHROME D, OR VRASS COLLAR	IS FIRE RATED, FILL VOID BETWEEN PIPE OR INSULATION AND WALL WITH FIRE BARRIER CAULK	3/4" TO /4" /2" TO 2"	8" 8"	/2" 3/4"
D WATER TIGHT VOID BETWEEN WALL EVE WITH OAKUM	SIZE AND MATERIAL	8" TO 10" OVER 10"	24" 32"	1 1/4" 2 1/2" 3 1/2"
LESS STEEL, CHROME	CHROME PLATED OR STAINLESS STEEL	SERVICE	BACKGROUND OR COLOR BAND	LETTER COLOR
D, OR BRASS TCHEON PLATE	ESCUTCHEON PLATES BOTH SIDES OF WALL IN EXPOSED AREAS. PLATE SHALL BE	CONDENSATE NATURAL GAS	SAFETY GREEN SAFETY YELLOW	WHITE BLACK
less steel or 6 Bolts Into Wall	SECURED WITH WALL CLIPS OR MOUNTING	NATURAL GAS VENT SANITARY DRAIN PLUMBING VENT	SAFETY YELLOW SAFETY GREEN SAFETY GREEN	BLACK WHITE WHITE
	I. I.D. OF WALL OPENING TO BE A MIN. OF 1/2" LARGER THAN O.D. OF PIPE OR INSULATION PASSING THROUGH WALL.	STORM WATER CITY WATER	SAFETY GREEN SAFETY GREEN	WHITE
ON IN ORDER TO	2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THEIR WALL OPENINGS WITH OTHER TRADES AND/OR	DOMESTIC COLD WATER DOMESTIC HOT WATER	SAFETY GREEN SAFETY GREEN	WHITE WHITE
ILL OPENINGS	CONTRACTORS. 3. PIPE PENETRATIONS OF SMOKE OR FIRE WALLS SHALL BE IN COMPLIANCE WITH NFPA-90A.	DOMESTIC HOT WATER CIRC. FIRE PROTECTION (SPRINKLER)	SAFETY GREEN SAFETY RED	WHITE WHITE
E GRADE	PIPE PENETRATION OF INTERIOR WALL DETAIL NO SCALE	TYPICAL PIPE IDENT NO SCALE	FIFICATION M	ARKERS

I. ALL WORK SHOWN ON DRAWINGS SHALL BE CONSIDERED NEW AND IN CONTRACT UNLESS SPECIFICALLY INDICATED OTHERWISE

DRAWINGS ARE GENERALLY DIAGRAMMATIC. ROUTING OF PIPING, DUCTWORK, CONDUITS, RACEWAYS, ETC. AS SHOWN ON DRAWINGS, DOES NOT INTEND TO SHOW EVERY RISE, DROP, OFFSET, FITTING NOR EVERY STRUCTURAL ELEMENT THAT MAY BE ENCOUNTERED DURING THE INSTALLATION OF THIS WORK. EACH CONTRACTOR SHALL MAKE ANY REQUIRED CHANGES FROM THE GENERAL ROUTING SHOWN ON THESE DRAWINGS, SUCH AS OFFSETS, BENDS OR CHANGES IN ELEVATION DUE TO COORDINATION WITH THE WORK OF OTHER TRADES AND BUILDING CONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO

3. IT IS INTENDED THAT EQUIPMENT SHALL BE LOCATED SYMMETRICALLY WITH THE ARCHITECTURAL ELEMENTS OF THE BUILDING. NOTWITHSTANDING THE FACT THAT LOCATIONS INDICATED BY THESE DRAWINGS MAY BE DISTORTED FOR CLEARNESS OF

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

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

6. WHERE THERE IS EVIDENCE THAT WORK OF ONE TRADE WILL INTERFERE WITH WORK OF OTHER TRADES, ALL TRADES SHALL MEET ON JOB SITE TO WORK OUT SPACE CONDITIONS AND MAKE SATISFACTORY ADJUSTMENTS TO INSTALLATION OF THE NEW WORK. CONTRACTORS SHALL VERIFY EXACT LOCATIONS OF ALL DEVICES AND EQUIPMENT WITH FIELD CONDITIONS, SHOP DRAWINGS, AND WORK OF OTHER TRADES PRIOR TO ROUGH-IN. EACH CONTRACTOR SHALL BE RESPONSIBLE, AT THEIR OWN EXPENSE, FOR THE REMOVAL AND REINSTALLATION OF ANY PART OF THEIR WORK IF SAME WAS INSTALLED WITHOUT CONSULTING WITH OTHER TRADES

CONTRACTOR SHALL PROVIDE SLEEVES IN BEAMS, FLOORS, COLUMNS AND WALLS AS SHOWN ON THE DRAWINGS, AS REQUIRED BY JOB SITE CONDITIONS, AND/OR AS SPECIFIED, WHEN INSTALLING THEIR WORK. ALL BEAMS AND COLUMNS WHICH ARE REQUIRED TO BE SLEEVED SHALL BE CUT AND REINFORCED AS REQUIRED BY FIELD CONDITIONS AND LOCATIONS AND SIZES SHALL BE CHECKED AND APPROVED BY ARCHITECT BEFORE CONTRACTOR CUTS ANY STRUCTURAL BUILDING MEMBER.

8. THE SEQUENCE FOR THE INSTALLATION OF ALL WORK SHALL BE COORDINATED BETWEEN ALL CONTRACTORS ON THE PROJECT AND

CONTRACTOR SHALL REFER TO THE ARCHITECTURAL AND STRUCTURAL CONTRACT DRAWINGS (BEFORE SUBMITTING THEIR BIDS) TO FAMILIARIZE THEMSELVES WITH THE EXTENT OF THE GENERAL CONTRACTOR'S WORK, CEILING HEIGHTS AND CLEARANCE FOR

IO. CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL CORING, CUTTING, PATCHING, 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, REFINISHING, 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

II. SOME OF THE EXISTING ITEMS AND EQUIPMENT SCHEDULED TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER. ANY ITEMS THAT THE OWNER WANTS TO RETAIN SHALL BE REMOVED CAREFULLY SO AS NOT TO DAMAGE THEM. ALL OTHER ITEMS TO BE

12. CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR OWN CLEAN-UP DURING CONSTRUCTION. IF CONTRACTOR FAILS TO PROVIDE SUCH CLEAN-UP, THE ARCHITECT/ENGINEER WILL DIRECT ANOTHER CONTRACTOR TO PERFORM THE CLEAN-UP AND THE NEGLIGENT CONTRACTOR SHALL PAY THE ASSOCIATED BACK-CHARGES AS DEEMED APPROPRIATE BY THE ARCHITECT/ENGINEER

13. CONTRACTOR SHALL INSTALL ALL AUXILIARY SUPPORTING STEEL AS REQUIRED FOR THE SUPPORTING OF THEIR PIPING. DUCTWORK. CONDUIT, TANKS, EQUIPMENT, ETC. ALL SUPPORTING STEEL FOR ITEMS ABOVE A SUSPENDED CEILING SHALL BE FROM BUILDING

- 14. IT IS MANDATORY THAT THE COMPLETE EXISTING BUILDING REMAIN IN CONTINUOUS AND NON-INTERRUPTED OPERATION DURING REMODELING/ALTERING OF SAID EXISTING BUILDING. THE SPECIFIC AREA(S) BEING REMODELED/ALTERED AT ANY SCHEDULED TIME ARE OBVIOUSLY EXCLUSIVE OF THIS STATEMENT. SERVICES TO EXISTING BUILDING SHALL BE KEPT IN CONTINUOUS OPERATION INCLUDING POWER, SIGNAL SYSTEMS, LIGHTING, TELEPHONE, HEATING, COOLING, VENTILATING, TEMPERATURE CONTROL, SEWERS AND HOT AND COLD WATER. ANY ABSOLUTELY NECESSARY INTERRUPTION OF THESE SERVICES TO ACCOMPLISH CONTRACT WORK SHALL BE ARRANGED WITH THE OWNER A MINIMUM OF TEN (10) WORKING DAYS IN ADVANCE. SUCH INTERRUPTIONS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AS FAR AS TIME INTERVAL IS INVOLVED AND TEMPORARY SERVICES SHALL BE FURNISHED AND INSTALLED UNDER THIS CONTRACT WHERE NECESSARY TO ACCOMPLISH THIS PURPOSE. TEMPORARIES SHALL BE REMOVED BY THE CONTRACTOR ONLY AFTER NEW PERMANENT SERVICES ARE INSTALLED AND FULLY OPERATIONAL.
- 15. UNLESS INDICATED OTHERWISE, THE ARCHITECT/ENGINEER MAKES NO REPRESENTATION AS TO WHETHER OR NOT ANY HAZARDOUS OR CONTAMINATED MATERIALS (INCLUDING BUT NOT LIMITED TO ASBESTOS, PCB'S, CONTAMINATED SOILS, ETC.) ARE PRESENT WITHIN THE EXISTING BUILDING OR ON THE SITE. WORK SHOWN ON THE DRAWINGS AND/OR INDICATED IN THE SPECIFICATIONS SHALL NOT BE CONSTRUED TO CALL FOR CONTACT WITH ANY OF THESE MATERIALS. IF THESE MATERIALS ARE ENCOUNTERED OR SUSPECTED, THE CONTRACTOR SHALL NOT DISTURB THEM AND SHALL CONTACT THE ARCHITECT/ENGINEER IMMEDIATELY.
- I G. 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.
- 17. 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.
- 18. 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.
- 19. CONTRACTOR AND/OR MANUFACTURER SHALL VERIFY THAT THE CHARACTERISTICS OF THE EQUIPMENT SUBMITTED FOR REVIEW MEETS 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 THEIR 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 THEIR OWN EXPENSE.
- 21. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND THEIR ASSOCIATED FEES



AND MARKER



- I. CONTRACTOR SHALL ISOLATE ALL PIPES WHICH VIBRATE FROM CONSTRUCTION IN ORDER TO AVOID TRANSMISSION TO STRUCTURE.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THEIR WALL OPENING WITH OTHER TRADES AND/OR CONTRACTORS.
- 3. WHERE INSULATED: I " THICK 3.5 PCF GLASS FIBER INSULATION WITH ALL SERVICE JACKET SHALL BE UTILIZED AND SEALED WITH METAL FASTENERS OR SELF SEALING LAP TAPE. TRANSVERSE JOINTS SECURED WITH METAL FASTNERS OR WITH BUTT TAPE SUPPLIED WITH PRODUCT.

PIPE PENETRATION OF FLOOR ASSEMBLY NO SCALE





- EXISTING DUCTWORK, DIFFUSERS, REGISTERS, AND GRILLES TO REMAIN.
 NEW CONNECTION TO BE MADE AT THIS LOCATION. REMOVE ALL
- DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, INSULATION, ETC. SHOWN DASHED BEYOND THIS POINT.
- 3 REMOVE ALL DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, INSULATION, ETC. SHOWN DASHED AND CAP AT MAIN.
- 4 REMOVE ALL DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, INSULATION, ETC. SHOWN DASHED.
- 5 REMOVE DIFFUSER/GRILLE.



 VENTILATION DEMOLITION PLAN - AREA A - PHASE I

 1/4" = 1'-0"





- I EXISTING DUCTWORK, DIFFUSERS, REGISTERS, AND GRILLES TO REMAIN. 2 NEW CONNECTION TO BE MADE AT THIS LOCATION. REMOVE ALL DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, INSULATION, ETC. SHOWN DASHED BEYOND THIS POINT.
- 3 REMOVE ALL DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, INSULATION,
- ETC. SHOWN DASHED AND CAP AT MAIN. 4 REMOVE ALL DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, INSULATION,
- ETC. SHOWN DASHED. 5 REMOVE DIFFUSER/GRILLE.





- I EXISTING DUCTWORK, DIFFUSERS, REGISTERS, AND GRILLES TO REMAIN. 2 NEW CONNECTION TO BE MADE AT THIS LOCATION. REMOVE ALL
- DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, INSULATION, ETC. SHOWN DASHED BEYOND THIS POINT.
- 3 REMOVE ALL DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, INSULATION, ETC. SHOWN DASHED AND CAP AT MAIN.
- 4 REMOVE ALL DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, INSULATION, ETC. SHOWN DASHED.
- 5 REMOVE DIFFUSER/GRILLE.
- 6 CAP EXISTING DUCT AT LOCATION SHOWN AND REMOVE ALL DUCTWORK, REGISTERS, DIFFUSERS, HANGERS, INSULATION, ETC. SHOWN DASHED BEYOND THIS POINT.
- 7 EXISTING HVAC EQUIPMENT TO REMAIN.

VENTILATION DEMOLITION PLAN - AREA E - PHASE II 1/4" = 1'-0"

- I EXISTING DUCTWORK, DIFFUSERS, REGISTERS, AND GRILLES TO REMAIN.
- 2 NEW CONNECTION TO BE MADE AT THIS LOCATION. REMOVE ALL DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, INSULATION, ETC. SHOWN DASHED BEYOND THIS POINT.
- 3 REMOVE ALL DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, INSULATION, ETC. SHOWN DASHED AND CAP AT MAIN.
- 4 REMOVE ALL DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, INSULATION, ETC. SHOWN DASHED.
- 5 CAP EXISTING DUCT AT LOCATION SHOWN AND REMOVE ALL DUCTWORK, REGISTERS, DIFFUSERS, HANGERS, INSULATION, ETC. SHOWN DASHED BEYOND THIS POINT.
- 6 REMOVE DIFFUSER/GRILLE.7 EXISTING HVAC EQUIPMENT TO REMAIN.

VENTILATION DEMOLITION PLAN - AREA F - PHASE II

- PNEUMATIC TUBING, ETC. LOCATED ABOVE ANY ACCESSIBLE CEILING BETWEEN ALL ABANDONED JUNCTION BOXES IN WALLS THAT ARE TO REMAIN.
- ASSOCIATED PIPING, VALVING AND CONTROLS.
- CONTROLS.

- PIPING, VALVING, AND CONTROLS.
- PIPING, VALVING.
- VALVING AND CONTROLS.
- HANGERS, SUPPORTS, ETC.
- CONTROLS.
- ASSOCIATED PIPING, VALVING, INSULATION, HANGERS. ETC.
- AND CONTROLS.
- CONDUIT, WIRING, ETC.

- EXISTING DUCTWORK, DIFFUSERS, REGISTERS, AND GRILLES TO REMAIN.
- 2 MAKE NEW CONNECTION TO EXISTING DUCTWORK AT THIS LOCATION. 3 MODIFY/EXTEND EXISTING DUCTWORK AS REQUIRED TO PROPERLY INSTALL NEW
- DIFFUSER/GRILLE IN EXISTING CEILING SYSTEM.
- 4 MODIFY EXISTING DUCTWORK AS REQUIRED TO PROPERLY INSTALL NEW CONTROL DAMPER
- IN EXISTING DUCTWORK. VERIFY EXISTING DUCTWORK SIZES.
- 5 EXISTING FIRE DAMPER TO REMAIN. REPLACE LINKAGE AND VERIFY OPERATION.

1 VENTILATION PLAN - AREA A - PHASE I

BIDDING NOTE:

SEE ARCHITECTURAL DRAWINGS FOR ALTERNATE BID CEILING REPLACEMENT AREAS. WHERE CEILINGS ARE TO BE REPLACED UNDER ANY ALTERNATE, CONTRACTOR TO INCLUDE IN THEIR ALTERNATE PRICING TO REMOVE EXISTING RETURN GRILLE, CLEAN, AND RE-INSTALL IN NEW CEILING GRID.

- I EXISTING DUCTWORK, DIFFUSERS, REGISTERS, AND GRILLES TO REMAIN.
- 2 EXISTING FIRE DAMPER TO REMAIN. REPLACE LINKAGE AND VERIFY
- OPERATION.
- 3 MODIFY/EXTEND EXISTING DUCTWORK AS REQUIRED TO PROPERLY INSTALL NEW DIFFUSER/GRILLE IN EXISTING CEILING SYSTEM.
- 4 MAKE NEW CONNECTION TO EXISTING DUCTWORK AT THIS LOCATION.
- 5 STEEL ROD SUSPEND FROM STRUCTURE ABOVE WITH NEOPRENE VIBRATION ISOLATORS.
- 6 PROVIDE BIRDSCREEN AT OPENING OF SIZE INDICATED.
- 7 FULL SIZE OF UNIT CONNECTION.
- 8 EXISTING HVAC EQUIPMENT TO REMAIN.
- 9 BALANCE OPEN POSITION OF MODULATING CONTROL DAMPER TO AIRFLOW RATE INDICATED.

VENTILATION PLAN - AREA D - PHASE II

TO BE REPLACED UNDER ANY ALTERNATE, CONTRACTOR TO INCLUDE IN THEIR ALTERNATE PRICING TO REMOVE EXISTING RETURN GRILLE, CLEAN, AND RE-INSTALL IN NEW CEILING GRID.

KEYPLAN NOT TO SCALE

1 VENTILATION 1/4" = 1'-0"

VENTILATION PLAN - AREA E - PHASE II

BIDDING NOTE:

SEE ARCHITECTURAL DRAWINGS FOR ALTERNATE BID CEILING REPLACEMENT AREAS. WHERE CEILINGS ARE TO BE REPLACED UNDER ANY ALTERNATE, CONTRACTOR TO INCLUDE IN THEIR ALTERNATE PRICING TO REMOVE EXISTING RETURN GRILLE, CLEAN, AND RE-INSTALL IN NEW CEILING GRID.

- I EXISTING DUCTWORK, DIFFUSERS, REGISTERS, AND GRILLES TO REMAIN. 2 MAKE NEW CONNECTION TO EXISTING DUCTWORK AT THIS LOCATION.
- 3 MODIFY/EXTEND EXISTING DUCTWORK AS REQUIRED TO PROPERLY INSTALL
- NEW DIFFUSER/GRILLE IN EXISTING CEILING SYSTEM.
- 4 MODIFY EXISTING DUCTWORK AS REQUIRED TO PROPERLY INSTALL NEW CONTROL DAMPER IN EXISTING DUCTWORK. VERIFY EXISTING DUCTWORK SIZES.
- 5 WALL HOOD WITH BIRDSCREEN AND WITHOUT BACKDRAFT DAMPER WITH NECK SIZE TO MATCH CONNECTED DUCTWORK. PROVIDE FACTORY KYNAR FINISH OF COLOR SELECTED BY ARCHITECT.
- 6 BALANCE OPEN POSITION OF MODULATING CONTROL DAMPER TO AIRFLOW RATE INDICATED. 7 EXISTING FIRE DAMPER TO REMAIN. REPLACE LINKAGE AND VERIFY OPERATION.
- 8 BALANCE EXISTING DIFFUSER TO AIRFLOW RATE INDICATED.
- 9 EXISTING HVAC EQUIPMENT TO REMAIN.
- 10 DUCT OF SIZE INDICATED TO TERMINATE MIN. 6" A.F.F. WITH MANUAL BALANCING DAMPER AND BIRDSCREEN.
- I I REMOVE EXISTING CONTROLLER/CONTROLS AND PROVIDE NEW DDC CONTROLLER/CONTROLS, SENSORS, ETC. AS REQUIRED TO ACHIEVE SPECIFIED SEQUENCE OF OPERATIONS.
- I 2 TRANSFER OPENING OF SIZE INDICATED IN WALL ABOVE CEILING.

BIDDING NOTE:

SEE ARCHITECTURAL DRAWINGS FOR ALTERNATE BID CEILING REPLACEMENT AREAS. WHERE CEILINGS ARE TO BE REPLACED UNDER ANY ALTERNATE, CONTRACTOR TO INCLUDE IN THEIR ALTERNATE PRICING TO REMOVE EXISTING RETURN GRILLE, CLEAN, AND RE-INSTALL IN NEW CEILING GRID.

MEZZANINE VENTILATION DEMOLITION PLAN - PHASE II

~(4)

PAD TO REMAIN

(4)—

18 REMOVE EXISTING CONTROLLER/CONTROLS AND PROVIDE NEW DDC CONTROLLER/CONTROLS, SENSORS, ETC. AS REQUIRED TO ACHIEVE SPECIFIED SEQUENCE OF OPERATIONS.

AHU	AIR HANDLING UNIT	HP	HORSEPOWER	— HWS — H
AS	AIR SEPARATOR	HPU	HEAT PUMP UNIT	— HWR — H
BAS	BUILDING AUTOMATION SYSTEM	HWB	HOT WATER BOILER	—— G —— N
BHP	BRAKE HORSEPOWER	HWP	HOT WATER CIRCULATING PUMP	—— RS ——— R
BTU	BRITISH THERMAL UNIT	HWR	HOT WATER RETURN	—— RL ——— R
BTUH	BRITISH THERMAL UNIT PER HOUR	HWS	HOT WATER SUPPLY	——HG——— R
CFM	CUBIC FEET PER MINUTE	IH	INTAKE HOOD	
СН	CHILLER	LAT	LEAVING AIR TEMPERATURE	GWS 6
CUH	CABINET UNIT HEATER	LWT	LEAVING WATER TEMPERATURE	
D	DRAIN LINE	MCA	MINIMUM CIRCUIT AMPS	(
DB	DRY BULB	MOCP	MAXIMUM OVERCURRENT PROTECTION	бВ
DFSS	DUCT FREE SPLIT SYSTEM	MOD	MOTOR OPERATED DAMPER	
EAT	ENTERING AIR TEMPERATURE	NC	NEW CONNECTION	Ž 2
EDC	ELECTRIC DUCT COIL	NK	NECK —	C
EF	EXHAUST FAN	PD	PRESSURE DROP	
ESP	EXTERNAL STATIC PRESSURE	PE	PIPE ENCLOSURE	P
ESUH	ELECTRIC SUSPENDED UNIT HEATER	PH	PHASE	
ET	EXPANSION TANK	PSI	POUNDS PER SQUARE INCH	P
EUH	ELECTRIC UNIT HEATER	RF	RETURN FAN	S T
EWH	ELECTRIC WALL HEATER	RPM	REVOLUTIONS PER MINUTE	FS FS
EWT	ENTERING WATER TEMPERATURE	SP	STATIC PRESSURE	ļ.
F	FAHRENHEIT	SUH	SUSPENDED UNIT HEATER	
F∉T	FLOAT & THERMOSTATIC	TYP.	TYPICAL	——————————————————————————————————————
FD	FLOOR DRAIN	VAV	VARIABLE AIR VOLUME BOX	
FID	FIRE DAMPER	VFD	VARIABLE FREQUENCY DRIVE	
FTR	FINNED TUBE RADIATION	VRF	VARIABLE REFRIGERANT FLOW	P
G	GAS PIPING	VVT	VARIABLE VOLUME AND TEMPERATURE BOX	PITCH PITCH
GPM	GALLONS PER MINUTE	WB	WET BULB	
GWP	GEOTHERMAL WATER PUMP	W.C.	WATER COLUMN	
GWR	GEOTHERMAL WATER RETURN	WG	WATER GAUGE	O P
GWS	GEOTHERMAL WATER SUPPLY	WL	WALL LOUVER	PP
GWL	GEOTHERMAL WATER LOOP			P

																GROUN	D SOUR		PUMP (JNIT SCI	IEDULI	E												
501110							MAX			C	ABINET (II	N.)					HEATING		G	ROUND LO	OP COIL	C(OOLING					CHECK	EL		IARACTER	STICS		
EQUIP TAG	LOCATIO	N S	AREA ERVED	MANUF.	MODE	LAIRFL (CFN	OW CONTR M) O.A. (M CODE	OL ESP IN. (IN.)	TYPE	L	w	н		AIR DISCHARG	E EAT (°F)	LAT EWT (°F) (°F)	CAPACIT Y (BTUH)	ISO O COP (PER. EA COP °F	T EAT B (WB) °F)	LAT L/ (DB (W °F) F	AT /B° EWT ^(°F)	SENS. CAPACITY (BTUH)	TOTAL CAPACITY (BTUH)	ISO OPE EER EEI	R. GPM DROP (F	RE COIL T.) PUMP	VALVE REQ'D	ACTUAL POWER (W)	ACTUAL AMP MC (A)	A MOCP	PH VOL	T TYPE	NOTES
HP-AIOO	MECHANICA MEZZANINE 2	AL 200 SE	PERIMETER	CLIMATEMASTI	R TEV-072	2 2,25	50 320	0.5	VERTICAL CABINET	30 5/8"	25 3/8"	58 1/2"	SIDE	DUCTED	58.6	36.0 45.0	66,400	3.7	4 80.	.0 67.0	58.4 53	3.2 85.0	70,600	52,600	16.9 13.	6 15.0 10.10	INTEGRAL		4834	13.4 30	0 45	3 208	3 2" THROWAWAY	1,2,3,4,5,6,7,8,9
HP-AIOI	MECHANICAL CI	LOSET BOA	ARD ROOM ATOT	CLIMATEMASTI	ER TEV-026	6 750	001 00	0.5	VERTICAL CABINET	25 5/8"	22 3/8"	48 1/2"	SIDE	DUCTED	59.3	96.6 45.0	30,200	4.1	4.2 80.	.0 67.0	59.9 54	4.8 85.0	16,300	25,000	19.9 16.	2 5.0 3.20	INTEGRAL		1929	5.4 12	8 15	3 208	5 2" THROWAWAY	1,2,3,4,5,6,7,8
HP-AII2	MECHANICAL CI A I O5A	LOSET SE	INTERIOR	CLIMATEMASTI	R TEV-038	3 1,15	50 190	0.5		30 5/8"	25 3/8"	50 1/2"	SIDE	DUCTED	56.8	35.8 45.0	36,000	4.4	5.5 80.	.0 67.0	59.8 54	4.7 85.0	25,100	38,500	20.3 17	8.0 6.90	INTEGRAL		2831	7.9 19	2 30	3 208	5 2" THROWAWAY	1,2,3,4,5,6,7,8,9
HP-BIOO			PERIMETER	CLIMATEMASTI	ER TEV-064	4 1,90	00 225	0.5		30 5/8"	25 3/8"	58 1/2"	SIDE	DUCTED	60.5	90.9 45.0	62,300	3.9	5.5 80.	.0 67.0	56.7 5	1.4 85.0	47,700	63,800	18.8 15.	4 12.5 6.70	INTEGRAL		5178	14.4 28	6 45	3 208	5 2" THROWAWAY	1,2,3,4,5,6,7,8,9
HP-BIOI		5W	PERIMETER	CLIMATEMASTI	ER TEV-049	9 1,60	081 00	0.5		30 5/8"	25 3/8"	54 1/2"	SIDE	DUCTED	61.0	37.5 45.0	45,700	4	5.3 80.	.0 67.0	60.1 55	5.0 85.0	34,500	49,100	19.9 15.	5 10.0 6.20	INTEGRAL		3960	11.0 25	2 35	3 208	5 Z THROWAWAY 2"	1,2,3,4,5,6,7,8,9
HP-BIIO	CIOO MECHANICA	SW	INTERIOR	CLIMATEMASTI	ER TEV-038	3 1,15	50 155	0.5	CABINET	30 5/8"	25 3/8"	50 1/2"	SIDE	DUCTED	59.2	38.2 45.0	36,000	4.4	5.5 80.	.0 67.0	59.8 54	4.7 85.0	25,100	38,500	20.3 17	8.0 6.90	INTEGRAL		2831	7.9 19	2 30	3 208	THROWAWAY	1,2,3,4,5,6,7,8
HP-B126	MEZZANINE 2 MECHANICA	200 RO	OM BI26	CLIMATEMASTI	R TEV-064	4 1,90	00 330	0.5	CABINET	30 5/8"	25 3/8"	58 1/2"	SIDE	DUCTED	56.1	36.5 45.0	62,300	3.9	5.5 80.	.0 67.0	56.7 5	1.4 85.0	47,700	63,800	18.8 15.	4 12.5 6.70	INTEGRAL		5178	14.4 28	6 45	3 208	THROWAWAY	1,2,3,4,5,6,7,8
HP-CIOI	MEZZANINE 2	200 I. OP	T. CIOI ERATIONS/	CLIMATEMASTI	R TEV-038	3 1,15		0.5	CABINET HORIZONTAL	30 5/8"	25 3/8"	50 1/2"	SIDE		63.0	92.0 45.0	36,000	4.4	5.5 80.	.0 67.0	59.8 54	4.7 85.0	25,100	38,500	20.3 17	8.0 6.90	INTEGRAL		2831	7.9 19	2 30	3 208	THROWAWAY	1,2,3,4,5,6,7,8
	OPERATION	STOR	AGE CIO3A ERATIONS/	CLIMATEMAST		5 600 8 COC		0.5	CABINET HORIZONTAL	48 1/4"	22 3/8"	17 1/2"	SIDE		70.0	37.2 45.0	16,300	3.4	3.9 80.	0 67.0	56.2 55	5.6 85.0	12,200	17,200		4 4.5 13.38			1604	7.7 10	0 15		2 THROWAWAY	1,2,3,4,8
	STORAGE CI MECHANICA	O3A STOR AL MEE	AGE CIO3A TING ROOM	CLIMATEMAST			0 410	0.5	CABINET VERTICAL	30 5/8"	25 3/8"	58 1/2"	SIDE		52 7	33 45 0	62 300	3.4	5.5 80	0 67.0	56.7 5	0.6 00.0	47 700	63.800	16.0 10.	4 4.5 15.50			5178	14.4 28	0 15 C 45	3 200	2 THROWAWAY	1,2,3,4,0
	MEZZANINE 2 MECHANICA	200 CIIO	DA INTERIOR		-R TFV-044	A 1,00	220	0.5	CABINET VERTICAL	30 5/8"	25 3/8"	54 1/2"	SIDE		59.0	35 5 45 0	45 700	4	5.3 80	0 67.0	601 55	5.0 85.0	34 500	49.100	19.9 15	5 10.0 6.20	INTEGRAL		3960	14.4 20	2 35	3 200	THROWAWAY 2"	123456789
HP-D100	MEZZANINE 2	200 LT	PFRIMFTFR	CLIMATEMAST	R TEV-072	2 2 25	50 300	0.5	CABINET VERTICAL	30 5/8"	25 3/8"	58 1/2"	SIDE		59.3	36 7 45 0	66 400	37	4 80	0 67.0	58.4 53	3.2 85.0	70,600	52 600	16.9 13	S 15.0 10.10	INTEGRAL		4834	13.4 30	0 45	3 200	THROWAWAY 2"	123456789
HP-D107	THERAPY DI	31 NW		CLIMATEMAST	R TEV-038	3 1.15	50 165	0.5	CABINET VERTICAL	30 5/8"	25 3/8"	50 1/2"	SIDE	DUCTED	58.5	37.5 45.0	36.000	4.4	5.5 80.	.0 67.0	59.8 54	4.7 85.0	25.100	38,500	20.3 17	8.0 6.90	INTEGRAL		2831	7.9 19	2 30	3 208	THROWAWAY	1.2.3.4.5.6.7.8
HP-DI19	THERAPY DI	31 NE	INTERIOR	CLIMATEMASTI	ER TEV-064	4 1.90	00 450	0.5	VERTICAL	30 5/8"	25 3/8"	58 1/2"	SIDE	DUCTED	51.1	31.4 45.0	62.300	3.9	5.5 80.	.0 67.0	56.7 5	1.4 85.0	47.700	63.800	18.8 15.	4 12.5 6.70	INTEGRAL		5178	14.4 28	6 45	3 208	THROWAWAY	, 1.2.3.4.5.6.7.8.9
HP-DI 27	MECHANICA	AL EF	PERIMETER	CLIMATEMAST	ER TRV-006	6 220) 40	0.5	CABINET VERTICAL	21 1/4"	22 1/2"	22 1/2"	SIDE	DUCTED	55.5	30.7 45.0	6.000	3.4	3.7 80.	.0 67.0	58.5 56	5.4 85.0	3.900	5.800	15.4 12.	3 1.5 3.00	INTEGRAL		589	2.8 4.	5 15	1 208	THROWAWAY	1.2.3.4.8
HP-DI29	MEZZANINE 2 MECHANICA	AL EF	PERIMETER	CLIMATEMAST	ER TRV-006	6 220	2 40	0.5	VERTICAL	21 1/4"	22 1/2"	22 1/2"	SIDE	DUCTED	55.5	30.7 45.0	6.000	3.4	3.7 80.	.0 67.0	58.5 56	6.4 85.0	3,900	5,800	15.4 12.	3 1.5 3.00	INTEGRAL		589	2.8 4.	5 15	1 208	THROWAWAY	, 1.2.3.4.8
HP-DI34	THERAPY DI	31 NE	PERIMETER	CLIMATEMASTI	R TEV-072	2 2,25	50 420	0.5	VERTICAL	30 5/8"	25 3/8"	58 1/2"	SIDE	DUCTED	55.1	32.4 45.0	66,400	3.7	4 80.	.0 67.0	58.4 53	3.2 85.0	70,600	52,600	16.9 13.	G 15.0 10.10	INTEGRAL		4834	13.4 30	0 45	3 208		, 1,2,3,4,5,6,7,8,9
NOTES:									CADINLI			CORRECTE																						
2. PROVI RANGE	DE THE FOLLOV	MANUFACTUR VING FACTOR DISCONNECT	XERS: SEE SI Y INSTALLED SWITCH FAC	OPTIONS: COF	PER WATER	COIL, CON RY PLIMP	IPRESSOR SOU	ND PACKAGE, E	KTENDED	3. A 4. F	ROVIDE THE	FOLLOWIN FTION: 2" I	G ADDITION	AL FACTORY	JLYCOL. 5	INSTALLE	D OPTION: EC	ng addition# CM FAN MOTC During vent	AL FACTORY DR CONFIGUE MODE	6. RED 7. 8	PROVIDE T PROVIDE T MANUFACT	HE FOLLOWIN HE FOLLOWIN TURFR OTHFR	IG ADDITIONAL I IG ADDITIONAL I THAN BASIS O	FACTORY INST FACTORY INST F DESIGN: MA	ALLED OPTION: ALLED OPTION: ANUFACTURER TO	RE-FIEAT COL/DEFIUMID PHASE LOSS PROTECTI() PROVIDE CIRCULATION	IFICATION SEQUI ON. J PLIMP FOR FIFI	ENCE. D INSTALLATIO	9. N	INSTALLED CO	NTROL TERMIN	EU OF BACnet IN	ILD TERFACE.	
														·																				
NTLOOAT	ARE	A						CA	PACITY/SIZ	E		1	AAX.		EQUIP.						0175			FLOW H		LER MIN.	TRIPI	LE DUTY VA	LVE			MOTOR	i	NOTEO
	ON SERV		NUFACTU	RER MOD			FLOW RATE INL	ET OUTLE	T TANK VC (GAL	LUME TA	NK ACCE (GAL.)	EPT. PRE DR	OP (FT)	NOTES	TAG		GEOTHERM		ACTURER	SFRIFS	SIZE		YPE	(GPM)	(FT.) DIA (IN.) EFFICIENCY	TYPE	SIZE	PD (FT.)	BHP	HP	RPM	PHASE	VOLT.
N THERAE	SYSTI	EM B	ELL & GOSSE	TT CRS-	4 AIR		110.0 4	." 4"					0.2	1,2,3	GWP-1	DI3I THERAPY	SYSTEM GEOTHERMA	BELL ¢	GOSSETT	90 SERIES	I.5AB		NLINE	55.0	43.0 6 5,	8" 62.3	STRAIGHT	2 1/2"	3.3	1.0	1.50	1725	3	208 1,2,3
DI31	SYSTI	EM B	ELL & GOSSE	TT B-50	BL/	ADDER			13		12			1,2	GWP-2	D131	SYSTEM	BELL ¢	GOSSETT	90	I.5AB		NLINE	55.0	43.0 6 5,	8" 62.3	STRAIGHT	2 /2"	3.3	1.0	1.50	1725		208 1,2,3
NUFACTURERS: 25% GLYCOL/7	SEE SPECIFIC/ 5% WATER SOL	ATIONS. .UTION.	3. REMOV	ABLE HEAD/STR	AINER MEDIA	۹									I. OTHE 2. DATA	R ACCEPTAE	LE MANUFACT FOR 25% GL	URERS: SEE S YCOL/75% WA	SPECIFICATIC ATER SOLUTIO	DNS. ON.	3	. PUMPS -	TO OPERATE IN	PARALLEL.								GWI	GEOTTENNI	
							НС	OT WATEF		SCHED	ULE															ELI	ECTRIC DI		SCHEDU	ILE				
	ARFA						OPERATIN	G INPLIT		WAT		MAX V		GAS VALV	/E ASSEME	ILY EI		CHARACT	ERISTICS	l	EQ			AREA M		AIRFLOW	OVER	ALL SIZE					ELE	
	SERVED) MANUI	FACTUREF	R MODEL	TYI	PE	PRESSUR (PSI)	E (MBH)	(MBH)	WT LW1 (°F) (°F)	GPM	P.D. (FT)	DIA LIN IN.) PR (IN	ES RATIN		ATION FL	A MOCP	PHASE	VOLTAGE	NOTES		AG VE	STIBULE HEA	AT PUMP		(CFM)	WIDTH HE		GTH STAG	iES kW (I	BTUH)	EAT (°F)	AT (°F) PH	VOLT NOTED
MECHANICA ROOM CIOC	L GEOTHERMA D SYSTEM	AL LOO	CHINVAR	WHB199N	STAINLES FIRE 1	is steel Tube	60	199	184 4	12.0 61.8	8 19	1.13	3 7	, ASME (SD-1)	5-100%	MOD 3	3 15	Ι	120	1,2,3,4	EDC-		DI 23 HF BSERV. HEA	P-DIOO	ARKEL HF SI	IRIES 2,250	18"		5" 	3.0	0,236	82.4	86.6 3	208 1,2
ACCEPTABLE N		S: SEE SPECI	FICATIONS.	3. IN	LET GAS PRE	SSURE LIS	STED IS AT INLET	f of gas valve	4.	THE FOLLO	WING SHALL	. BE FURNIS	HED BY THE	BOILER MAN	UFACTURER:	CONDENSAT	Ε ΙΤCH ΔΝΠ				NOTES	<u>5:</u>	DI33 HF	P-DI34 ^Ⅳ	IARNEL NF SI	RIES 2,250	10"	10 [.] E	5	3.0	0,236	02.4	06.6 3	200 1,2
		טט-ו.		15	AIN. JIZE II		JKDINGLI.			FACTORY I	NSTALLED IN	ITEGRAL PU	MP AND BAC	Cnet COMPAT	IBLE COMMU	NICATION GA	reway.				١.	OTHER ACCE	PTABLE MANUF	ACTURERS: SE	E SPECIFICATION	IS. 2. PROVI	DE DISCONNECT	SWITCH, CON	TROL TRANSFC	DRMER, MAGNETIO	CONTACTOR	S, AIRFLOW SWI	ICH, AND THERM	AL CUTOUTS.
	DIFFUS	ER, REC	GISTER,		LE SCH	IEDULE	E									EXHAU	ST FAN S	CHEDUL	E									ELE		ALL HEATE	R SCHEI	DULE		
MANUFACT	TURER MO	DDEL		FACE	NAL SIZE	TERIAL	MAX. N.C.	NOTES	EQUIP TAG	LOCA		AREA SERVED	MANU	F MODE	L TYPE	DRIVE	CFM S (IN	P MAX. J.) SONES	S FAN	BHP H	MOTOR P RF	M PH	VOLT	ONTROL TYPE	NOTES		GENERAI	MANUF	. MODEL	FAN DA	TA CFM HEA		CAL DATA	DLT NOTES
TITUS	(24"x	24" 3	STEEL	30		EF-1	MECH/ MEZZAN	ANICAL INE 200	BUILDING RELIEF	GREENHE	CK 5Q-160-	VG SQUARE	DIRECT	3,200 0.3	75 13.9	1227	0.63 1.	00 130	1 00	120	BAS	1,2	WH-BI23 BI23	E RECESSED WALL) MARKEL	3420 SERIES	PROP.	245 2	.0 9.6	1 20	08 1,2,3
TITUS	3	BOOR	BUPPLY REGIS	offer VAR	ES 5	STEEL	30	1,2,3	NOTES:	IER ACCEPT/		ACTURERS:	SEE SPECI	FICATIONS.			I		I	11				I	1	WH-BI33 BI33	E RECESSED WALL) MARKEL	3420 SERIES	PROP.	245 2	.0 9.6	1 20	08 1,2,3
TITUS		50F			ES ALL	JMINUM	30	,4	2. GRA	AVITY BACKD I MOTOR FC	RAFT DAMP R CONTROL	ER, DISCON . BY REMOT	NECT SWITC SIGNAL, A	CH, VIBRATIO ND UL705 RA	N ISOLATORS ATING.	,										WH-CI22 VESTIBUL	E RECESSED WALL) MARKEL	3420 SERIES	PROP.	245 3	.0 8.3	3 20	08 1,2,3
ACUTHEI	RM T	F/HC 3F	THERMAFUS	ER 24"x	24" 3	STEEL	30				Г														- [i	WH-DI23 VESTIBUL	E RECESSED WALL) MARKEL	3420 SERIES	PROP.	245 2	.0 9.6	1 20	08 1,2,3
TITUS	3	350R	GRILLE		ES 5	STEEL	30	1,2,3								INTAK	E AND R	ELIEF HO	SIZE		ATIC	HOOD FRE	E MAX. TH	ROAT	I	WH-DI37 DI37	E RECESSED WALL) MARKEL	3420 SERIES	PROP.	245 2	.0 9.6	1 20	08 1,2,3
TITUS	TB	DI-80	BOOT			STEEL	30	١,5			EQUIP TAG	LOCAT	ON SE	RVED	MANUF.	MODEL	TYPE	DIA	C	FM PRE (IN	SSURE W.G.)	AREA (SQFT)	VELOC (FPM	NC N	DTES	NOTES: OTHER ACCEPTABL		FRS: SFF SPF(
HER ACCEPTAI	BLE MANUFACT	URERS: SEE	<u>i look i</u>	LAN TAG LLGLN							IH-CIO3A	ROOI	HEA C	T PUMP 103A GI	REENHECK	GRSI-08	INTAKE	8"		60 ().10	0.3	172		1,2	2. DISCONNECT SWIT 3. MOUNTING KIT TO	CH, FAN RELAY S	SWITCH, AND T	TAMPER-PROOF	f Built-in Therm	OSTAT.			
NISH AS SELEC PPOSED BLADE	TED BY ARCHIT DAMPER.	ECT.	'S'=SUP 'R'=RETI	PLY JRN/RELIEF			IAIR FL	.OW (CFM)			IH-CII8	ROOI	HEA HP	-CII8 GI	REENHECK	GRSI-10	INTAKE	1 <i>0</i> "	2	20	0.10	0.5	404		1,2								E	
2"x /2"x " OR FLECTION GRIE	/2"x /2"x /2" V).	V/ 45 DEG.	'E'=EXH/ EQUIPM	AUST ENT TAG				IZE (IN.)			I. OTHE 2 MAN	ER ACCEPTA	BLE MANUF S SLOPED R	ACTURERS: S	DEE SPECIFICA	TIONS. OF PITCH											GENEF		JUSPEN			ELEC		
I I " WIDE SLOT	J.																								 	TAG LOCAT			ANUF. MC		CFM	KW KW	MP PH	VOLT NOTES
													<u>م</u> ا			WALL		SIZE (IN.)		FREE	FREE A	REA P.	D. WA	TER	[SUH-CIOO ROOM C	ION HORIZ		IARKEL 5 SE	ERIES PROP.	400	3.3	9.2 3	208 1,2,3,4
										TAG		SER\	ED N	IANUF.	MODEL	TYF	E V	V H D	CFM	AREA (SQFT)	VELOC (FPN	CITY (II /) W.(N PENET G.) VELOCI	RATION N TY (FPM)	NOTES	SUH-CIO3 GARAGE C	CIO3 SUSP HORIZ	CONTAL	1ARKEL 5 SE	ERIES PROP.	700	7.5	20.8 3	208 1,2,3,4
										WL-I	ITERAPY DI31	HEAT F O.A	UMT 	RUSKIN	ELF375DX	EXTKUDED A DRAINA	NBLE 2	4 24 4	١,335	1.9	688	3 0.	l 8'	70	1,2,3,4	OTHER ACCEPTABL DISCONNECT SWIT	.E MANUFACTURI CH.	ERS: SEE SPEC	CIFICATIONS.					
									<u>NO</u> .	TES: OTHER AC	CEPTABLE N	/ANUFACTU	RERS: SEE S	3PECIFICATIO	NS. 3.	COLOR AND	FINISH TO BE	SELECTED BY	ARCHITECT.							3. WALL BRACKET. 4. PROVIDE CONTROL	L RELAY AND TRA	NSFORMER.						
									2.	BIRDSCRE	ËN.				4.	WATER PENE WITH A 48"x	TRATION VELC 48" LOUVER A	ND A TEST PE	D ON 0.01 (RIOD OF 15	UZ/S.F. MINS.														

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| EQUIP
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 | HEA

 | TING
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 | GROUND L |
 | COOLING | TOT: | | CPM
 | PRESSURE | COIL
 | | ACTUAL
 | LECTRICA
ACTUAL |
 | | | FILTER |
 |
| TAG
 | SERVED
 | | M) O.A. (MIN
CODE) | l. (IN.) | | | И Н | INLET | T DISCHARG

 | E EAT LA
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(°F) Y

 | APACIT ISC
(BTUH) CO
 | D OPER.
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°F) °F) | LAI LAI
(DB (WB° (°
°F) F) (°
 | /T SENS.
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(BTUH) | Y CAPACITY
(BTUH) | ISO OPER
EER EER |
 | DROP (FT.) | PUMP
 | REQ'D | POWER
(W)
 | AMP
(A) | MCA M
 | MOCP P | PH VOLT | TYPE |
 |
| HP-AIOO MECHANICAL
MEZZANINE 200
 | SE PERIMETER CLIMATEMA
 | STER TEV-072 2,250 | 50 320 | 0.5 | VERTICAL
CABINET | 30 5/8" 25 3 | /8" 58 1/2 | 2" SIDE | DUCTED

 | 58.6 86.
 | 45.0

 | 56,400 3.7
 | 7 4
 | 80.0 67.0 | 58.4 53.2 85
 | .0 70,600 | 52,600 | 16.9 13.6 | 15.0
 | 10.10 | INTEGRAL
 | | 4834
 | 13.4 | 30.0
 | 45 3 | 3 208 | 2"
THROWAWA | Y 1,2,3,4,5
 |
| HP-AIOI MECHANICAL CLOSET
AIO5A
 | BOARD ROOM
AIOI
 | STER TEV-026 750 | 0 100 | 0.5 | VERTICAL
CABINET | 25 5/8" 22 3 | /8" 48 1/2 | 2" SIDE | DUCTED

 | 59.3 96.
 | 45.0 3

 | 30,200 4.1
 | 4.2
 | 80.0 67.0 | 59.9 54.8 85
 | .0 16,300 | 25,000 | 19.9 16.2 | 5.0
 | 3.20 | INTEGRAL
 | | 1929
 | 5.4 | 12.8
 | 15 3 | 3 208 | 2"
THROWAWA | Y 1,2,3,4,
 |
| HP-AII2
MECHANICAL CLOSET
 | SE INTERIOR CLIMATEMA
 | STER TEV-038 1,150 | 60 190 | 0.5 | VERTICAL
CABINET | 30 5/8" 25 3 | /8" 50 1/2 | 2" SIDE | DUCTED

 | 56.8 85.
 | 45.0 3

 | 36,000 4.4
 | 4 5.5
 | 80.0 67.0 | 59.8 54.7 85
 | 0 25,100 | 38,500 | 20.3 17 | 8.0
 | 6.90 | INTEGRAL
 | | 2831
 | 7.9 | 19.2
 | 30 3 | 3 208 | 2"
THROWAWA | Y 1,2,3,4,5
 |
| HP-BIOO MECHANICAL ROOM
 | S PERIMETER CLIMATEMA
 | STER TEV-064 1,90 | 00 225 | 0.5 | VERTICAL | 30 5/8" 25 3 | /8" 58 1/2 | 2" SIDE | DUCTED

 | 60.5 90.
 | 45.0

 | 52,300 3.5
 | 9 5.5
 | 80.0 67.0 | 56.7 51.4 85
 | .0 47,700 | 63,800 | 18.8 15.4 | 12.5
 | 6.70 | INTEGRAL
 | | 5178
 | 14.4 | 28.6
 | 45 3 | 3 208 | 2"
THROWAWA | Y 1,2,3,4,5
 |
| HP-BIOI MECHANICAL ROOM
 | SW PERIMETER CLIMATEMA
 | STER TEV-049 1,60 | 00 180 | 0.5 | VERTICAL | 30 5/8" 25 3 | /8" 54 1/2 | 2" SIDE | DUCTED

 | 61.0 87.
 | 45.0 4

 | 15,700 4
 | 5.3
 | 80.0 67.0 | 60.1 55.0 85
 | .0 34,500 | 49,100 | 19.9 15.5 | 10.0
 | 6.20 | INTEGRAL
 | | 3960
 | 11.0 | 25.2
 | 35 3 | 3 208 | 2"
THROW/AW/A | v I,2,3,4,5
 |
| HP-BIIO MECHANICAL ROOM
 | SW INTERIOR CLIMATEMA
 | STER TEV-038 1,150 | i0 I 55 | 0.5 | VERTICAL | 30 5/8" 25 3 | /8" 50 1/2 | 2" SIDE | DUCTED

 | 59.2 88.
 | 45.0 3

 | 36,000 4.4
 | 4 5.5
 | 80.0 67.0 | 59.8 54.7 85
 | .0 25,100 | 38,500 | 20.3 17 | 8.0
 | 6.90 | INTEGRAL
 | | 2831
 | 7.9 | 19.2
 | 30 3 | 3 208 | | , 1,2,3,4,
 |
| HP-B126 MECHANICAL
 | MULTI-PURPOSE
 | STER TEV-064 1.90 | 00 330 | 0.5 | VERTICAL | 30 5/8" 25 3 | /8" 58 1/2 | 2" SIDE | DUCTED

 | 56.1 86.
 | 45.0 6

 | 52.300 3.9
 |) 5.5
 | 80.0 67.0 | 56.7 51.4 85
 | .0 47.700 | 63.800 | 8.8 5.4 | 12.5
 | 6.70 | INTEGRAL
 | | 5178
 | 14.4 | 28.6
 | 45 3 | 3 208 | 2" | 1.2.3.4
 |
| MEZZANINE 200
MECHANICAL
 |
 | STER TEV-038 | i0 100 | 0.5 | VERTICAL | 30 5/8" 25 3 | /8" 50 1/2 | >" SIDF | DUCTED

 | 63.0 92
 | 45.0 3

 | 36,000 4,4
 | 4 55
 | 80.0 67.0 | 59.8 54.7 85
 | 0 25 100 | 38,500 | 20.3 17 | 8.0
 | 6.90 | INTEGRAI
 | | 2831
 | 7.9 | 19.2
 | 30 3 | 3 208 | 2" | Y 1.2.3.4
 |
| HP-CLOIC LT CLOI
 | OPERATIONS/
 | STER TRH-018 COO | | 0.5 | CABINET
HORIZONTAL | 48 1/4" 22 3 | /8" 17 1/2 | | DUCTED

 | 70.0 95
 | 45.0

 | 6300 34
 | 1 39
 | 80.0 67.0 | 56.2 55.6 85
 | 0 12 200 | 17 200 | | 4 5
 | 13.38 | INTEGRAL
 | | 1604
 | 77 | 10.0
 | 15 | 208 | THROWAWA
2" | Y 1,2,0,1
 |
| HP CLO2A OPERATIONS/
 | OPERATIONS/
 | | | 0.5 | CABINET
HORIZONTAL | | 18 17 1/2 | | DUCTED

 | (2.0 87
 | 45.0

 | C 200 2 /
 | 1 20
 | 80.0 67.0 | 5C 2 55 C 85
 | 0 12,200 | 17,200 | | 4.5
 | 12.28 |
 | | 1004
 | 7.7 | 10.0
 | 15 | 1 208 | THROWAWA
2" | Y ', ² ,
 |
| STORAGE CIOSA STORAGE CIOSA S
MECHANICAL
 |
 | AJILK IKII-UTO 600 | | 0.5 | CABINET
VERTICAL | 40 1/4" 22 5 | | |

 | 62.0 07.
 | 45.0

 | 6,300 3.2
 | + 5.5
 | 00.0 67.0 |
 | .0 12,200 | 17,200 | 16.5 15.4 | 4.5
 | 15.50 |
 | | 1604
 | 1.1 | 10.0
 | 15 | 200 | THROWAWA | Y 1,2,
 |
| HP-CITO MEZZANINE 200 C
 | CLIDA INTERIOR
 | STER 1EV-064 1,90 | 00 410 | 0.5 | CABINET | 30 5/8" 25 3 | /8" 58 1/2" | 2" SIDE | DUCTED

 | 52.7 83.
 | 45.0

 | 52,300 3.5
 |) 5.5
 | 80.0 67.0 | 56.7 51.4 85
 | .0 47,700 | 63,800 | 18.8 15.4 | 12.5
 | 6.70 | INTEGRAL
 | | 5178
 | 14.4 | 28.6
 | 45 3 | 3 208 | THROWAWA | Y 1,2,3,4
 |
| HP-CI 18 MEZZANINE 200
 | E PERIMETER CLIMATEMA
 | STER TEV-049 1,60 | 00 220 | 0.5 | CABINET | 30 5/8" 25 3 | /8" 54 1/2" | 2" SIDE | DUCTED

 | 59.0 85.
 | 45.0 4

 | 15,700 4
 | 5.3
 | 80.0 67.0 | 60.1 55.0 85
 | .0 34,500 | 49,100 | 19.9 15.5 | 10.0
 | 6.20 | INTEGRAL
 | | 3960
 | 11.0 | 25.2
 | 35 3 | 3 208 | THROWAWA | Y 1,2,3,4,
 |
| HP-DIOO THERAPY DI3I
 | NW PERIMETER CLIMATEMA
 | STER TEV-072 2,250 | 50 300 | 0.5 | CABINET | 30 5/8" 25 3 | /8" 58 1/2 | 2" SIDE | DUCTED

 | 59.3 86.
 | 45.0

 | 56,400 3.7
 | 7 4
 | 80.0 67.0 | 58.4 53.2 85
 | 0 70,600 | 52,600 | 16.9 13.6 | 15.0
 | 10.10 | INTEGRAL
 | | 4834
 | 13.4 | 30.0
 | 45 3 | 3 208 | Z
THROWAWA | Y 1,2,3,4,
 |
| HP-DIO7 THERAPY DI31
 | NW INTERIOR CLIMATEMA
 | STER TEV-038 1,15 | i0 I 65 | 0.5 | CABINET | 30 5/8" 25 3 | /8" 50 1/2 | 2" SIDE | DUCTED

 | 58.5 87.
 | 45.0 3

 | 36,000 4.4
 | 4 5.5
 | 80.0 67.0 | 59.8 54.7 85
 | .0 25,100 | 38,500 | 20.3 17 | 8.0
 | 6.90 | INTEGRAL
 | | 2831
 | 7.9 | 19.2
 | 30 3 | 3 208 | 2"
THROWAWA | Y 1,2,3,4
 |
| HP-DII9 THERAPY DI31
 | NE INTERIOR CLIMATEMA
 | STER TEV-064 1,90 | 00 450 | 0.5 | VERTICAL
CABINET | 30 5/8" 25 3 | /8" 58 1/2 | 2" SIDE | DUCTED

 | 51.1 81.
 | 45.0

 | 52,300 3.5
 | 9 5.5
 | 80.0 67.0 | 56.7 51.4 85
 | .0 47,700 | 63,800 | 18.8 15.4 | 12.5
 | 6.70 | INTEGRAL
 | | 5178
 | 14.4 | 28.6
 | 45 3 | 3 208 | 2"
Throwawa | Y 1,2,3,4,
 |
| HP-D127 MECHANICAL
MEZZANINE 200
 | E PERIMETER CLIMATEMA
 | STER TRV-006 220 | D 40 | 0.5 | VERTICAL
CABINET | 21 1/4" 22 1 | /2" 22 1/2 | 2" SIDE | DUCTED

 | 55.5 80.
 | 45.0

 | 6,000 3.4
 | 4 3.7
 | 80.0 67.0 | 58.5 56.4 85
 | .0 3,900 | 5,800 | 15.4 12.3 | ١.5
 | 3.00 | INTEGRAL
 | | 589
 | 2.8 | 4.5
 | 15 | 1 208 | 2"
THROWAWA | , I,2,
 |
| HP-D129 MECHANICAL
MEZZANINE 200
 | E PERIMETER CLIMATEMA
 | STER TRV-006 220 | 0 40 | 0.5 | VERTICAL
CABINET | 21 1/4" 22 1 | /2" 22 1/2 | 2" SIDE | DUCTED

 | 55.5 80.
 | 45.0

 | 6,000 3.4
 | 4 3.7
 | 80.0 67.0 | 58.5 56.4 85
 | 0 3,900 | 5,800 | 15.4 12.3 | ١.5
 | 3.00 | INTEGRAL
 | | 589
 | 2.8 | 4.5
 | 15 | 1 208 | 2"
THROWAWA | ۲ I,2,
 |
| HP-DI34 THERAPY DI31
 | NE PERIMETER CLIMATEMA
 | STER TEV-072 2,250 | 60 420 | 0.5 | VERTICAL | 30 5/8" 25 3 | /8" 58 1/2 | 2" SIDE | DUCTED

 | 55.1 82.
 | 45.0

 | 56,400 3.7
 | 7 4
 | 80.0 67.0 | 58.4 53.2 85
 | .0 70,600 | 52,600 | 16.9 13.6 | 15.0
 | 10.10 | INTEGRAL
 | | 4834
 | 13.4 | 30.0
 | 45 3 | 3 208 | 2"
THROWAWAY | , ∣,2,3,4,
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| NOTES:
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| OTHER ACCEPTABLE MANUFAC PROVIDE THE FOLLOWING FAC
 | CTURERS: SEE SPECIFICATION
TORY INSTALLED OPTIONS: (
 | NS.
COPPER WATER COIL, COM | IPRESSOR SOUND |) PACKAGE, I | EXTENDED | 3. ALL RATI
4. PROVIDE | NGS CORREC | ving addit | 25% Propylene (
Fional factory

 | GLYCOL. 5.
 | PROVIDE THE

 | Following add
Tion: ECM Fan
 | DITIONAL FACT
 | DRY 6.
IGURED 7. | PROVIDE THE FOLLO
 | WING ADDITIONA | L FACTORY INSTA
L FACTORY INSTA | LED OPTION: RI
LED OPTION: PI | E-HEAT CO
HASE LOS
 | OIL/DEHUMIDIFICA | TION SEQUEN
 | ICE. |
 |). PROVIDI
INSTALLI | DE CONTROL T
LED CONTROL
 | terminal St
LS in Lieu Of | FRIP FOR FIELD
F BACnet INTE |)
RFACE. |
 |
| RANGE INSULATION, DISCONN
 | IECT SWITCH, FACTORY INSTA
 | ALLED SECONDARY PUMP, 1 | AND BACnet INTER | | | IN5TALL | ED OPTION: 2 | 2" FILTER R | ACK

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 | IRFLOW DURING
 | VENT MODE.
 | 8 | MANUFACTURER OT
 | IER THAN BASIS | OF DESIGN: MAN | JFACTURER TO | PROVIDE
 | CIRCULATION PU | MP FOR FIELD
 | INSTALLATION | N
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| E LOCATION AREA SERVED
 | MANUFACTURER MO
 | ODEL TYPE | FLOW INLET | | | | CCEPT. PI | RESSUR
RESSUR |

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TAG
 | ATION SE

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 | NUFACTU
 | ER MODEL | SIZE
 | TYPE | RATE H
(GPM) (I | AD IMPELL
T.) DIA (IN | LER
N.) EF
 | MIN.
FICIENCY |
 | SIZE | PD (FT.)
 | BHP | HF
 | P F | RPM F | PHASE | VOLT.
 |
| THERAPY GEOTHERMAL
 | BELL & GOSSETT C
 | TANGENTIAL | | | |) (OF | | | • /

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 | | 0.0 4" | 4" | | | | 0.2 | 1,2,3

 | GWP-1
 | ERAPY GEO

 | DTHERMAL E
 | BELL & GOSSE
 | T SERIES | I.5AB
 | INLINE | 55.0 4 | 3.0 6 5/8 | 3"
 | 62.3 5 | TRAIGHT
 | 2 /2" | 3.3
 | 1.0 | ١.5
 | 50 I | 1725 | 3 | 208
 |
| N THERAPY GEOTHERMAL
 | BELL & GOSSETT E
 | AIR & DIRT
3-50 | 110.0 4" | 4" | 13 | | 2 | 0.2 | 1,2,3

 | GWP-1 TI
GWP-2 TI
 | ERAPY GEC
131 S
ERAPY GEC

 | OTHERMAL
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 | 3ELL & GOSSE
3ELL & GOSSE
 | T SERIES
90
T SERIES | I .5AB
 | INLINE | 55.0 4
55.0 4 | 3.0 6 5/8
3.0 6 5/8 | 511
511
 | 62.3 S | TRAIGHT
 | 2 1/2" | 3.3
3.3
 | 1.0 | l .5
 | 50 I
50 I | 1725 | 3 | 208
208
 |
| ON THERAPY GEOTHERMAL
DI3I SYSTEM
 | BELL & GOSSETT E
 | AIR & DIRT
3-50
BLADDER | 110.0 4" | 4" | 13 | | 2 | 0.2 | I,2,3
I,2

 | GWP-1
GWP-2
<u>NOTES:</u>
 | ERAPY GEO
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ERAPY GEO
131 S

 | DTHERMAL
BYSTEM
DTHERMAL
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 | Bell ¢ Gosse
Bell ¢ Gosse
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T SERIES
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I.5AB
 | INLINE | 55.0 4
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3.0 6 5/8 | 5"
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 | 62.3 5
62.3 5 | TRAIGHT
TRAIGHT
 | 2 /2"
2 /2" | 3.3
3.3
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I .5
 | 50 I
50 I | I 725
I 725
GWP | 3
3
GEOTHERM | 208
208
Al water Pu
 |
| ON THERAPY GEOTHERMAL
DI3I SYSTEM
ANUFACTURERS: SEE SPECIFICATIONS.
25% GLYCOL/75% WATER SOLUTION.
 | BELL & GOSSETT E
 | AIR & DIRT
3-50
BLADDER
BTRAINER MEDIA | 110.0 4" | 4" | 13 | I; | 2 | 0.2 | I,2,3
I,2

 | GWP-1
GWP-2
<u>NOTES:</u>
1. OTHER A
2. DATA CO
 | ERAPY GEO
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ERAPY GEO
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CCEPTABLE MA
RRECTED FOR

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ANUFACTURERS
25% GLYCOL/7
 | Bell & Gosse
Bell & Gosse
: See Specific
5% water Sc
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T SERIES
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ATIONS.
LUTION. | I .5AB
I .5AB
3. PUM
 | INLINE
INLINE
25 TO OPERATE | 55.0 4
55.0 4
N PARALLEL. | 3.0 6 5/8
3.0 6 5/8 | 5"
 | 62.3 5
62.3 5 | TRAIGHT
TRAIGHT
 | 2 /2"
2 /2" | 3.3
 | 1.0 | l .5
I .5
 | 50 I | I 725
I 725
GWP | 3
3
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208
AL WATER PL
 |
| HONTHERAPYGEOTHERMALDI3ISYSTEMMANUFACTURERS: SEE SPECIFICATIONS.R 25% GLYCOL/75% WATER SOLUTION.
 | BELL & GOSSETT E
3. REMOVABLE HEAD/S
 | AIR & DIRT
VERTICAL,
BLADDER | НОТ | | | | 2 | 0.2 | I,2,3
I,2

 | GWP-1
GWP-2
<u>NOTES:</u>
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2. DATA CO
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 | OTHERMAL
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25% GLYCOL/7
 | Bell & Gosse
Bell & Gosse
: See Specific
5% water Sc
 | T SERIES
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T SERIES
90
ATIONS.
LUTION. | I .5AB
I .5AB
3. PUM
 | INLINE
INLINE
25 TO OPERATE | 55.0 4
55.0 4
N PARALLEL. | 3.0 6 5/8
3.0 6 5/8 | 5"
5"
 | 62.3 5
62.3 5
FLEC |
 | 2 /2"
2 /2" | 3.3
3.3
 | 1.0
1.0 | l .5
 | 50 I | I 725
I 725
GWP | 3
3
GEOTHERM | 208
208
Al WATER PU
 |
| SION THERAPY GEOTHERMAL
JK DI31 GEOTHERMAL
SYSTEM
MANUFACTURERS: SEE SPECIFICATIONS.
PR 25% GLYCOL/75% WATER SOLUTION.
 | BELL & GOSSETT E
 | AIR & DIRT
3-50
BLADDER
BTRAINER MEDIA | HOT | | R BOILER | SCHEDULE
WATERSI | 2
DE | 0.2 | I,2,3
I,2
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 | GWP-1
GWP-2
TH
GWP-2
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2. DATA CO
THE ASSEMBLY
 | ERAPY GEO
131 GEO
ERAPY GEO
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 | THERMAL
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THERMAL
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25% GLYCOL/7
 | BELL & GOSSE
BELL & GOSSE
SEE SPECIFIC
5% WATER SC
 | T SERIES
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T SERIES
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ATIONS.
LUTION. | I .5AB
I .5AB
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 | INLINE
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25 TO OPERATE | AREA | 3.0 6 5/8
3.0 6 5/8 | 5"
5"

 | 62.3 5
62.3 5
ELEC
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IDE CONTROL REI</td><td>TRAIGHT TRAIGHT TRIC DUG OVERAI 8" 12 0 6" 12 6" 12 6" 12 6" GENERAL TYPE RECESSED WALL SUSPEN HORIZO</td><td>2 1/2" 2 1/2" 2 1/2" 2 1/2" 2 1/2" CT COIL 9 LL SIZE GHT LENG 3" 6" 3" 6" 3" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6" MARKEL MARKEL MARKEL NARKEL MARKEL NARKEL MARKEL NARKEL MARKEL NARKEL MARKEL NTAL MA NTAL MA NTAL MA SFORMER. SFORMER.</td><td>3.3 3.3 SCHEDU SCHEDU GTH STAG GTH STAG " 1 I 1 TROL TRANSFO 1 TROL TRANSFO 3420 SERIES 3420 </td></t<> <td>I.0 I.0 I.0 I.0 I.0 JLE J</td> <td>I.5 I.5 I.5 I.5 HEA CAPACIT
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 | TRAIGHT TRIC DUG OVERAI 8" 12 0 6" 12 6" 12 6" 12 6" GENERAL TYPE RECESSED WALL SUSPEN HORIZO | 2 1/2" 2 1/2" 2 1/2" 2 1/2" 2 1/2" CT COIL 9 LL SIZE GHT LENG 3" 6" 3" 6" 3" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6"
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 | I.5 I.5 I.5 I.5 HEA CAPACIT
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 | 3 3 3 GEOTHERM GEOTHERM ELE T (°F) PH 6.6 3 6.6 3 6.6 3 H, AND THERM AL DATA PH VC 1 2 3 2 1 2 3 2 1 2 3 2 1 2 3 2 1 2 3 3 RICAL DATA PH 2 3 3 RICAL DATA PH 2 3 3 | 208
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 | ESP TUDE | CABINET
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 | B AIB |
 | HEATING | | GROL | IND LOOP (| COIL
C | OOLING | |
 | PRESSURE | COIL
 | CHECK | | | L CHARACTE | RISTICS | FILTER
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| T | AG LOCAT
 | TION SERV

 | /ED MANUF. | MODEL (CFI | M) O.A. (MIN.
CODE)

 | (IN.) | L W
 | H INLE
 | T DISCHARGE | EAT L/
(°F) (°
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°F) (°F) Y (BTUH | T ISO OP
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OP °F) | EAT LAT
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°F) °F) | LAT
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EER EER
 | DROP (FT.) | PUMP
 | VALVE F
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(W) | AMP
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 | NOTES |
| HP- | ALOO MECHAI
MEZZANIN
 | NICAL
NE 200 SE PERII

 | METER CLIMATEMAST | ER TEV-072 2,25 | 50 320

 | 0.5 VERTICAL
CABINET | 30 5/8" 25 3/8
 | " 58 1/2" SIDI
 | E DUCTED | 58.6 86
 | 6.0 45.0 66,400 | 3.7 | 4 80.0 | 67.0 58.4 | 53.2 85.0 | 70,600 | 52,600 | 16.9 13.6
 | 15.0 10.10 | INTEGRAL
 | | 4834 | 13.4 | 30.0 45 | 5 3 20 | 08 2"
THROWAW/
 | AY 1,2,3,4,5,6,7,8,9 |
| HP- | AIOI MECHANICA
 | L CLOSET BOARD
5A AIC

 | | ER TEV-026 750 | 001 00

 | 0.5 VERTICAL
CABINET | 25 5/8" 22 3/8
 | " 48 1/2" SIDI
 | E DUCTED | 59.3 96
 | 6.6 45.0 30,200 | 4.1 4 | .2 80.0 | 67.0 59.9 | 54.8 85.0 | 16,300 | 25,000 | 19.9 16.2
 | 5.0 3.20 | INTEGRAL
 | | 1929 | 5.4 | 12.8 15 | 5 3 20 | 08 2"
THROWAW/
 | AY 1,2,3,4,5,6,7,8 |
| HP- | AII2 MECHANICA
 | L CLOSET SE INTE

 | RIOR CLIMATEMAST | ER TEV-038 1,15 | 50 190

 | 0.5 VERTICAL
CABINET | 30 5/8" 25 3/8
 | " 50 I/2" SIDI
 | E DUCTED | 56.8 85
 | 5.8 45.0 36,000 | 4.4 5 | 5.5 80.0 | 67.0 59.8 | 54.7 85.0 | 25,100 | 38,500 | 20.3 17
 | 8.0 6.90 | INTEGRAL
 | | 2831 | 7.9 | 19.2 30 |) 3 20 | 08 2"
THROWAW/
 | AY 1,2,3,4,5,6,7,8,9 |
| HP- | 3100 MECHANICA
 | AL ROOM S PERIN

 | IETER CLIMATEMAST | ER TEV-064 1,90 | 00 225

 | 0.5 VERTICAL
CABINET | 30 5/8" 25 3/8
 | " 58 1/2" SIDI
 | E DUCTED | 60.5 90
 | 0.9 45.0 62,300 | 3.9 5 | 5.5 80.0 | 67.0 56.7 | 51.4 85.0 | 47,700 | 63,800 | 18.8 15.4
 | 12.5 6.70 | INTEGRAL
 | | 5178 | 14.4 | 28.6 45 | 5 3 20 | 08 2"
THROWAW/
 | AY 1,2,3,4,5,6,7,8,9 |
| HP- | BIOI MECHANICA
 | AL ROOM
SW PERI

 | METER CLIMATEMAST | ER TEV-049 1,60 | 00 180

 | 0.5 VERTICAL
CABINET | 30 5/8" 25 3/8
 | " 54 1/2" SIDI
 | E DUCTED | 61.0 87
 | 7.5 45.0 45,700 | 4 5 | 5.3 80.0 | 67.0 60.1 | 55.0 85.0 | 34,500 | 49,100 | 19.9 15.5
 | 10.0 6.20 | INTEGRAL
 | | 3960 | 11.0 | 25.2 35 | 5 3 20 | 08 2"
THROWAW/
 | AY 1,2,3,4,5,6,7,8,9 |
| HP- | 3110 MECHANICA
 | AL ROOM SW INTI

 | ERIOR CLIMATEMAST | ER TEV-038 1,15 | 50 155

 | 0.5 VERTICAL
CABINET | 30 5/8" 25 3/8
 | " 50 1/2" SIDI
 | E DUCTED | 59.2 88
 | 8.2 45.0 36,000 | 4.4 5 | 5.5 80.0 | 67.0 59.8 | 54.7 85.0 | 25,100 | 38,500 | 20.3 17
 | 8.0 6.90 | INTEGRAL
 | | 2831 | 7.9 | 19.2 30 |) 3 20 | 08 2"
THROWAW/
 | AY 1,2,3,4,5,6,7,8 |
| HP- | 3126 MECHAI
MEZZANIN
 | NICAL MULTI-PL
NE 200 ROOM

 | RPOSE
3126 CLIMATEMAST | ER TEV-064 1,90 | 00 330

 | 0.5 VERTICAL
CABINET | 30 5/8" 25 3/8
 | " 58 1/2" SIDI
 | E DUCTED | 56.1 86
 | 6.5 45.0 62,300 | 3.9 5 | 5.5 80.0 | 67.0 56.7 | 51.4 85.0 | 47,700 | 63,800 | 18.8 15.4
 | 12.5 6.70 | INTEGRAL
 | | 5178 | 14.4 | 28.6 45 | 5 3 20 | 08 2"
THROWAW/
 | AY 1,2,3,4,5,6,7,8 |
| HP- | CIOI MECHAI
 | NICAL I.T. C

 | IOI CLIMATEMAST | ER TEV-038 1,15 | 50 100

 | 0.5 VERTICAL
CABINET | 30 5/8" 25 3/8
 | " 50 I/2" SIDI
 | E DUCTED | 63.0 92
 | 2.0 45.0 36,000 | 4.4 5 | 5.5 80.0 | 67.0 59.8 | 54.7 85.0 | 25,100 | 38,500 | 20.3 17
 | 8.0 6.90 | INTEGRAL
 | | 2831 | 7.9 | 19.2 30 |) 3 20 | 08 2"
THROWAW/
 | AY 1,2,3,4,5,6,7,8 |
| HP-(| CIOIC I.T. C
 | IOI OPERAT

 | IONS/
CLO3A CLIMATEMAST | ER TRH-018 600 | 0 0

 | 0.5 HORIZONT | AL 48 1/4" 22 3/8
 | " 17 1/2" SIDI
 | E DUCTED | 70.0 95
 | 5.2 45.0 16,300 | 3.4 3 | .9 80.0 | 67.0 56.2 | 2 55.6 85.0 | 12,200 | 17,200 | 16.3 13.4
 | 4.5 3.38 | INTEGRAL
 | | 1604 | 7.7 | 10.0 15 | 5 1 20 | 08 2"
THROWAW
 | AY 1,2,3,4,8 |
| HP-(| CIO3A OPERAT
 | IONS/ OPERAT

 | IONS/
CLO3A CLIMATEMAST | ER TRH-018 600 | 0 60

 | 0.5 HORIZONT | AL 48 1/4" 22 3/8
 | " 17 1/2" SIDI
 | E DUCTED | 62.0 87
 | 7.2 45.0 16,300 | 3.4 3 | .9 80.0 | 67.0 56.2 | 2 55.6 85.0 | 12,200 | 17,200 | 16.3 13.4
 | 4.5 3.38 | INTEGRAL
 | | 1604 | 7.7 | 10.0 15 | 5 1 20 | 08 2"
THROWAW
 | I,2,3,4,8 |
| HP- | CIIO MECHAI
 | NICAL MEETING

 | ROOM
ITERIOR CLIMATEMAST | ER TEV-064 1,90 | 00 410

 | 0.5 VERTICAL | 30 5/8" 25 3/8
 | " 58 I/2" SIDI
 | E DUCTED | 52.7 83
 | 3.1 45.0 62,300 | 3.9 5 | .5 80.0 | 67.0 56.7 | ['] 51.4 85.0 | 47,700 | 63,800 | 18.8 15.4
 | 12.5 6.70 | INTEGRAL
 | | 5178 | 14.4 | 28.6 45 | 5 3 20 | 08 2"
THROWAW
 | AY 1,2,3,4,5,6,7,8 |
| HP- |
 | NICAL E PERIN

 | IETER CLIMATEMAST | ER TEV-049 1,60 | 220

 | 0.5 VERTICAL | 30 5/8" 25 3/8
 | " 54 I/2" SIDI
 | E DUCTED | 59.0 85
 | 5.5 45.0 45,700 | 4 5 | .3 80.0 | 67.0 60.1 | 55.0 85.0 | 34,500 | 49,100 | 19.9 15.5
 | 10.0 6.20 | INTEGRAL
 | | 3960 | 11.0 | 25.2 35 | 5 3 20 | 08 2"
 | I,2,3,4,5,6,7,8,9 |
| HP- | DIOO THERAPY
 | DISI NW PERI

 | METER CLIMATEMAST | ER TEV-072 2,25 | 50 300

 | 0.5 VERTICAL | 30 5/8" 25 3/8
 | " 58 I/2" SIDI
 | E DUCTED | 59.3 86
 | 6.7 45.0 66,400 | 3.7 | 4 80.0 | 67.0 58.4 | 53.2 85.0 | 70,600 | 52,600 | 16.9 13.6
 | 15.0 10.10 | INTEGRAL
 | | 4834 | 13.4 | 30.0 45 | 5 3 20 | 08 2"
 | 1,2,3,4,5,6,7,8,9 |
| HP. | DIO7 THERAPY
 | DI3I NW INTE

 | ERIOR CLIMATEMAST | ER TEV-038 1.15 | 50 165

 | 0.5 VERTICAL | 30 5/8" 25 3/8
 | " 50 1/2" SIDI
 | E DUCTED | 58.5 87
 | 7.5 45.0 36.000 | 4.4 5 | .5 80.0 | 67.0 59.8 | 54.7 85.0 | 25.100 | 38.500 | 20.3 17
 | 8.0 6.90 | INTEGRAL
 | | 2831 | 7.9 | 19.2 30 |) 3 20 | 2"
 | I.2.3.4.5.6.7.8 |
| HP. | DII9 THERAPY
 | DI3I NE INTE

 | RIOR CLIMATEMAST | ER TEV-064 1.90 | 0 450

 | 0.5 CABINET | 30 5/8" 25 3/8
 | " 58 1/2" SIDI
 | E DUCTED | 51.1 8
 | 1.4 45.0 62.300 | 3.9 5 | .5 80.0 | 67.0 56.7 | 51.4 85.0 | 47.700 | 63.800 | 18.8 15.4
 | 12.5 6.70 | INTEGRAL
 | | 5178 | 14.4 | 28.6 45 | 5 3 20 | 1HROWAW/
2"
 | AY 1.2.3.4.5.6.7.8.9 |
| | MECHAI
 | NICAL F PERIN

 | AFTER CLIMATEMAST | FR TRV-006 220 | 0 40

 | CABINET | - 21 1/4" 22 1/2
 | " 22 1/2" SIDI
 | | 55.5 80
 | 0.7 45.0 6.000 | 34 3 | 7 80.0 | 67.0 58.5 | 56.4 85.0 | 3 900 | 5 800 | 15.4 12.3
 | 15 3.00 | INTEGRAL
 | | 589 | 2.8 | 4.5 | | THROWAW/
 | AY 1,2,3,4,8 |
| | MEZZANIN
MECHAI
 | NE 200 E PERIN

 | | |

 | CABINET |
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 | | 55.5 80
 | 0.7 45.0 0.000 | | 7 80.0 | C7 0 58 5 | 50.4 85.0 | 3,000 | 5,800 |
 | 1.5 3.00 |
 | | 589 | 2.0 | 1.5 | | THROWAW/
 | AY 1,2348 |
| | MEZZANIN
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 | | ER TEV 072 2 25 | 50 400

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 | HYDRONIC | ACCESSORIES | 6 SCHEDULE

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 | FICATIONS. 3.
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VVT DAMPER SCHEDULE										VVT DAMPER SCHEDULE															
					AIRI	FLOW		APPROXI	MATE DIMEN	ISIONS (IN	l.)							AIRF	LOW		APPROXIN		SIONS (IN.)		
EQUIP TAG	LOCATION	AREA SERVED	MANUF.	MODEL	MIN.	MAX	INLET DIA.	OUTLET DIA.	LENGTH	WIDTH	HEIGHT	- NOTES	EQUIP TAG	LOCATION	AREA SERVED	MANUF.	MODEL -	MIN.	MAX	INLET DIA.	OUTLET DIA.	LENGTH	WIDTH	HEIGHT	NOTES
VVT-AIOO	BOARD ROOM AIOI	SUPERINTENDENT A I OO	RUSKIN	CDR25	31	305	10	10	7			1,2,3	VVT-CII8BP	MECHANICAL MEZZANINE	SYSTEM BYPASS	RUSKIN	CDR25	0	800	10	10	7	0	0	1,2,3
VVT-AIOOBP	MECHANICAL MEZZANINE	SYSTEM BYPASS	RUSKIN	CDR25	0	1000	12	12	7	0	0	١,2,3	VVT-CI20	WAITING CI2I	PLAYROOM C I 20, WAITING C I 2 I	RUSKIN	CDR25	31	310	10	10	7			١,2,3
VVT-A102	BUSINESS PERSONNEL SECRETARY A 1 05	ASSIST. SUPER. CURRIC./ INSTRUCT. A102	RUSKIN	CDR25	30	295	10	10	7			١,2,3	VVT-CI23	WAITING CI 23	WAITING C123, RECEPTION C124	RUSKIN	CD50	47	465			7	10	10	١,2,3
VVT-A103	ADMINISTRATIVE ASSISTANT A I 03	ADMINISTRATIVE ASSISTANT A I 03	RUSKIN	CDR25	17	170	8	8	7			١,2,3	VVT-CI26	RECEPTION C124	MEETING ROOM C126	RUSKIN	CDR25	31	305	10	10	7			١,2,3
VVT-A105	BUSINESS PERSONNEL SECRETARY A 1 05	BUSINESS PERSONNEL SECRETARY A I 05	RUSKIN	CDR25	13	125	8	8	7			1,2,3	VVT-CI27	LOBBYCIIG	GRANT WRITER C I 27	RUSKIN	CDR25	22	220	10	10	7			١,2,3
VVT-A106	BOOKKEEPER AIOG	BOOKKEEPER A I OG	RUSKIN	CDR25	17	170	8	8	7			1,2,3	VVT-DIOO	SECRETARIES DIOI	SPECIALISTS OFFICE D I 00	RUSKIN	CDR25	30	300	10	10	7			١,2,3
VVT-A109	ASSIST. SUPER. OF H.R. A109	ASSIST. SUPER. OF H.R. A109	RUSKIN	CDR25	13	125	8	8	7			1,2,3	VVT-DIOOBP	VESTIBULE DI 23	SYSTEM BYPASS	RUSKIN	CDR25	0	1000	12	12	7	0	0	١,2,3
VVT-AIIO	BILLING AT TO	BILLING ATTO	RUSKIN	CDR25	17	170	8	8	7			١,2,3	VVT-DIOI	PASSAGE D104	SECRETARIES DIOI	RUSKIN	CD50	56	560			7	16	8	١,2,3
VVT-AII2	BUSINESS PERSONNEL SECRETARY A 1 05	H.R. OFFICE A112, WAITING A104	RUSKIN	CD50	29	290			7	10	8	١,2,3	VVT-DI02	SPECIALISTS OFFICE D I 05	PROGRAM SECRETARY D102	RUSKIN	CDR25	10	100	6	6	7			١,2,3
VVT-AII2BP	BUSINESS PERSONNEL SECRETARY A 1 05	SYSTEM BYPASS	RUSKIN	CDR25	0	800	10	10	7	0	0	1,2,3	VVT-DI02A	SECRETARIES DIOI	ECAT LEAD DIO2A	RUSKIN	CDR25	18	180	10	10	7			١,2,3
VVT-AII4	ADMIN. ASSIST. OF H.R. ATT4	ADMIN. ASSIST. OF H.R. A114	RUSKIN	CDR25	13	125	8	8	7			١,2,3	VVT-D103	SPECIALISTS OFFICE D103	SPECIALISTS OFFICE D103	RUSKIN	CDR25	16	160	8	8	7			١,2,3
VVT-AII5	OFFICE AT I G	ACCOUNTS PAYABLE A115	RUSKIN	CDR25	17	165	10	10	7			١,2,3	VVT-D105	DI05	DI 05	RUSKIN	CDR25	13	125	8	8	7			١,2,3
VVT-AII8	ADMIN. ASSIST. AI 18	ADMIN. ASSIST. ATT8	RUSKIN	CDR25	12	120	8	8	7			1,2,3	VVT-DIOG	OFFICE DIOG	DI06	RUSKIN	CDR25	16	160	10	10	7			١,2,3
VVT-AII9	AI 19	BUSINESS OFFICE AT 19	RUSKIN	CDR25	25	250	8	8	7			1,2,3	VVT-DII3	DI 13	DI 13	RUSKIN	CDR25	13	125	8	8	7			١,2,3
VVT-AI2I	ADMIN. ASSIST. A I I 8	AI 20, WAITING AI 17	RUSKIN	CD50	41	410			7	12	8	١,2,3	VVT-DII8	DI 18		RUSKIN	CDR25	13	125	8	8	7			١,2,3
VVT-A122	BENEFITS OFFICE AI2I	AI 22	RUSKIN	CDR25	23	230	8	8	7			١,2,3	VVT-D119	CORRIDOR DI 22	DI 19	RUSKIN	CDR25	11	110	8	8	7			١,2,3
VVT-BIOO	OFFICE BIO5	BIOO	RUSKIN	CDR25	28	280	12	12	7			١,2,3	VVT-D119BP	THERAPY DI 30	BYPASS	RUSKIN	CDR25	0	1000	12	12	7	0	0	١,2,3
VVT-BIOOBP	CIOO	SYSTEM BYPASS	RUSKIN	CDR25	0	800	10	10	7	0	0	١,2,3	VVT-D121	INSTRUCTION D121	INSTRUCTION DI21	RUSKIN	CDR25	13	125	8	8	7			١,2,3
VVT-BIOI		BIOI	RUSKIN	CDR25	19	190	8	8	7			١,2,3	VVT-D124	KITCHEN DI 24	DI24	RUSKIN	CDR25	15	145	8	8	7			١,2,3
VVT-BIOIBP	CIOO	SYSTEM BYPASS	RUSKIN	CDR25	0	800	10	10	7	0	0	١,2,3	VVT-DI25	AUDIO LAB D I 25	DI25A	RUSKIN	CDR25	15	150	8	8	7			١,2,3
VVT-B102	OFFICE BI02	BI02	RUSKIN	CDR25	24	240	8	8	7			١,2,3	VVT-DI30	THERAPY DI 30	DI 30	RUSKIN	CDR25	19	185	8	8	7			١,2,3
VVT-BI03	OFFICE BI03	B103	RUSKIN	CDR25	19	190	8	8	7			١,2,3	VVT-D132	THERAPY DI 32	DI32	RUSKIN	CDR25	9	90	6	6	7			١,2,3
VVT-BIO4	OFFICE B107	BI04	RUSKIN	CDR25	28	280	10	10	7			1,2,3	VVT-D133	THERAPY DI32	DI33	RUSKIN	CDR25		105	6	6	7			١,2,3
VVT-B105	OFFICE B105	BI05	RUSKIN	CDR25	19	190	8	8	7			1,2,3	VVT-D134	DI34	DI34	RUSKIN	CDR25	15	150	10	10	7			١,2,3
VVT-B107	OFFICE B107	BI07	RUSKIN	CDR25	4	135	8	8	7			1,2,3	VVT-D134BP	THERAPY DI 30	BYPASS	RUSKIN	CDR25	0	1000	12	12	7	0	0	I ,2,3
VVT-B108	OFFICE B108	BIO8	RUSKIN	CDR25	19	190	8	8	7			1,2,3	VVT-D135	PASSAGE D126	DI35	RUSKIN	CDR25	18	175	6	6	7			I ,2,3
VVT-B112	OFFICE B112	BII2 OFFICE	RUSKIN	CDR25	19	190	8	8	7			1,2,3	VVT-D138	CORRIDOR D136	DI38	RUSKIN	CDR25		110	8	8	7			I ,2,3
VVT-B113	OFFICE B113	BII3 OFFICE	RUSKIN	CDR25	32	315	12	12	7			1,2,3	VVT-D139	THERAPY D139	DI39 THERAPY	RUSKIN	CDR25	12	115	8	8	7			I ,2,3
VVT-BII4	OFFICE B114	BII4	RUSKIN	CDR25	19	190	8	8	7			1,2,3	VVT-D140	THERAPY DI 40	DI40	RUSKIN	CDR25		110	8	8	7			۱,2,3
VVT-BII6		STUDENT SUPPORT BIIG	RUSKIN	CDR25	25	250	12	12	7			1,2,3	VVT-D141	DI4I		RUSKIN	CDR25	13	130	8	8	7			١,2,3
VVT-B118		BII8	RUSKIN	CDR25	26	260	8	8	7			1,2,3	VVT-D142	THERAPY D142		RUSKIN	CDR25	28	275	12	12	7			۱,2,3
VVT-B124	BII8	SECTOR OFFICE B124	RUSKIN	CDR25	15	150	8	8	7			1,2,3	VVT-D144	OBSERVATION D144	THERAPY DI 450	RUSKIN	CDR25	21	210	8	8	7			۱,2,3
VVT-B125	SECTOR OFFICE B125	BI25	RUSKIN	CDR25	15	150	8	8	7			1,2,3	VVT-D147	DI47	DI47	RUSKIN	CDR25	13	130	8	8	7			١,2,3
VVT-BI27	ADMIN. ASSIST. A I 18	BI28, COPY BI29 SECTOR OFFICE	RUSKIN	CD50	45	450			7	10	10	1,2,3	VVT-D148	THERAPY D148	DI48 THERAPY DI49	RUSKIN	CDR25	31	305	12	12	7			١,2,3
VVT-B130	SECTOR OFFICE B 30	BI30	RUSKIN	CDR25	15	150	8	8	7			1,2,3	VVT-D149	OBSERVATION D144	PASSAGE 146 THFRAPY DISO	RUSKIN	CDR25	20	200	8	8	7			١,2,3
VVT-BI3I		BI31 BUILDING SUPERVISOR	RUSKIN	CDR25	15	150	8	8	7			1,2,3	VVT-D150	OBSERVATION D144	PASSAGE 146	RUSKIN	CDR25	20	195	8	8	7			١,2,3
VVT-C104	DI19	CIO4 MFFTING ROOM	RUSKIN	CDR25	20	195	8	8	7			1,2,3	VVT-D151	SPECIALISTS OFFICE	DISI SPECIALISTS OFFICE	RUSKIN	CDR25	13	130	8	8	7			I,2,3
VVT-CI18	STORAGE C119	CII8	RUSKIN	CDR25	30	300	10	10	7			١,2,3	VVT-D153	DI53	DI53	RUSKIN	CDR25	13	130	8	8	7			١,2,3
NOTES:	EPTABLE MANUFACTURER	S: SEE SPECIFICATIONS.		3. CON	TROL CON	ITRACTOR SI	1ALL FUNIS	H AND INSTAL	L DAMPER ACTU	JATOR			VVT-D154	THERAPY DI 48	DI54	RUSKIN	CDR25	31	305	12	12	7			١,2,3
2. MAXIMUM F TO OUTLET	EQUIRES STATIC PRESSU OF DAMPER ASSEMBLY S	RE DIFFERENTAL ACROSS II HALL NOT EXCEED 0.25" W	NLET .G.	PRIC	r to inst	ALLATION BY	Y MECHANI	CAL CONTRAC	TOR.				VVT-D155	DI 55 SPECIALISTS OFFICE	DI D	RUSKIN	CD50	41	410			7	10	10	1,2,3
													VVT-D156	DI LUIALIOTO UTTICE DI 56	DI LUIALIOTO UTTILE DI 56	RUSKIN	CDR25	29	285	10	10	7			١,2,3

	2' X 4' LUMINAIRE, RECESSED OR SURFACE MOUNTED PER LUMINAIRE SCHEDULE.
	I'X 4' LUMINAIRE, RECESSED OR SURFACE MOUNTED PER LUMINAIRE SCHEDULE.
	2' X 2' LUMINAIRE, RECESSED OR SURFACE MOUNTED PER LUMINAIRE SCHEDULE.
•	HALF SHADING DENOTES FIXTURE UNSWITCHED "NIGHTLIGHT".
·	STRIP LUMINAIRE PER LUMINAIRE SCHEDULE.
0	WALL MOUNTED IUMINAIRE PER IUMINAIRE SCHEDULE
т ОП	RECESSED OR SURFACE CEILING MOUNTED LUMINAIRE PER LUMINAIRE SCHEDULE
	ILLUMINATED FYIT OR STAIR SIGN, SURFACE CEILING MOUNTED, SINGLE OR DOUBLE FACE, WITH OR WITHOUT
(WG)	DIRECTIONAL ARROWS PER SCHEDULE. - "WG" DENOTES WIRE GUARD.
(WG)	ILLUMINATED EXIT OR STAIR SIGN, SURFACE WALL MOUNTED, SINGLE OR DOUBLE FACE, WITH OR WITHOUT DIRECTIONAL ARROWS PER SCHEDULE. - "WG" DENOTES WIRE GUARD.
(WG)	SELF-CONTAINED EMERGENCY LUMINAIRE, WITH BATTERY BACK-UP AND SOLID STATE CHARGER PER SCHEDULE. - "WG" DENOTES WIRE GUARD.
	SELF-CONTAINED EMERGENCY LUMINAIRE WITH DUAL WEATHERPROOF REMOTE HEADS, BATTERY BACK-UP AND SOLID STATE CHARGER PER SCHEDULE. - "WG" DENOTES WIRE GUARD.
\$ ^(K)	SINGLE POLE 20 AMP 120-277 VOLT TOGGLE SWITCH INSTALLED 48" A.F.F. - "K" DENOTES KEYED SWITCH.
₮ (K)	THREE-WAY 20 AMP 120-277 VOLT TOGGLE SWITCH INSTALLED 48" A.F.F. - "K" DENOTES KEYED SWITCH.
4 ^(K)	FOUR-WAY 20 AMP 120-277 VOLT TOGGLE SWITCH INSTALLED 48" A.F.F. - "K" DENOTES KEYED SWITCH.
₽	SLIDE DIMMER CONTROL. DECORA STYLE COMPATIBLE WITH LUMINAIRE AND DIMMING BALLAST/DRIVER TYPES INSTALLED 48" A.F.F.
X55	SINGLE POLE 20 AMP 1 20/277 VOLT TOGGLE SWITCH WITH PILOT LIGHT INSTALLED 48" A.F.F.
<u>\$</u> OS	WALL MOUNT COMBINATION OCCUPANCY SENSOR AND SWITCH AS SCHEDULED.
⊚ _A	OCCUPANCY SENSOR, LETTER INDICATES MODEL AND TYPE PER SCHEDULE.
	ELECTRICAL DEVICE MOUNTED ON SURFACE RACEWAY, WIREMOLD V700 U.N.O.
•	SURFACE MOUNTED (EXPOSED) CONDUIT, BACKBOX FOR DEVICE AS SHOWN.
(GFI,WP) ∯	20A. 2P, 3 WIRE, GROUNDING TYPE, 125V. SPECIFICATION-GRADE, TAMPER-RESISTANT TYPE DUPLEX RECEPTACLE NEMA 5-20R INSTALLED +16" A.F.F. UNLESS NOTED OTHERWISE. - "GFI" DENOTES RECEPTACLE EQUIPPED WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER. - "WP" DENOTES WEATHER-RESISTANT RECEPTACLE WITH LOW-PROFILE WHILE-IN-USE WEATHERPROOF COVER.
⊕ ^(GFI)	20A. 2P, 3 WIRE, GROUNDING TYPE, 125V. SPECIFICATION-GRADE, TAMPER-RESISTANT TYPE DUPLEX RECEPTACLE NEMA 5-20R INSTALLED 6" ABOVE COUNTER TOP OR +42" A.F.F. UNLESS NOTED OTHERWISE. - "GFI" DENOTES RECEPTACLE EQUIPPED WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER.
∯ ^(GFI)	TWO 20A. 2P, 3 WIRE, GROUNDING TYPE, SPECIFICATION-GRADE, TAMPER-RESISTANT TYPE DUPLEX RECEPTACLES NEMA 5-20R INSTALLED + I 6" A.F.F. UNLESS NOTED OTHERWISE. - "GFI" DENOTES RECEPTACLE EQUIPPED WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER.
Φ	SIMPLEX RECEPTACLE.
Ŷ	SPECIAL RECEPTACLE, NEMA CONFIGURATION AS NOTED IN THE PLAN.
Φ	POWER OUTLET, CEILING MOUNTED.
$\Phi \nabla$	COMBINATION POWER/INFORMATION OUTLET, CEILING MOUNTED.
₽_⊲	HIGH CAPACITY MULTISERVICE (WITH DIVIDER/PARTITIONS) FLUSH FLOOR BOX. REFER TO PLANS AND DETAILS FOR QUANTITIES AND CONFIGURATIONS.
	METER.
	CIRCUIT BREAKER PANELBOARD.
Τ	DRY TYPE TRANSFORMER WITH 4" CONCRETE HOUSEKEEPING PAD.
	DISTRIBUTION PANEL.
	NON-FUSED SAFETY DISCONNECT SWITCH, AMPERE RATING AND NUMBER OF POLES AS NOTED.
ΥF	FUSED DISCONNECT SWITCH, AMPERE RATING, NUMBER OF POLES AND FUSE SIZE AS NOTED.
42	COMBINATION MOTOR STARTER WITH FUSED DISCONNECT, AMPERE RATING, NUMBER OF POLES, FUSE SIZE AND NEMA STARTER SI AS INDICATED

	DEMOLITION SYMBOLS
SYMBOL	DESCRIPTION
R	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO BE REMOVED.
Х	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO REMAIN.
XC	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO BE REMOVED AND JUNCTION BOX CAPPED OR REUSED AS REQUIRED.
хо	NEW ELECTRICAL EQUIPMENT INSTALLED OVER EXISTING OUTLET.
XRR	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO BE REMOVED, RELOCATED AND JUNCTION BOX REMOVED OR CAPPED AS REQUIRED.
XR	EXISTING ELECTRICAL EQUIPMENT OR OUTLET RELOCATED (NEW LOCATION).
XRT	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO BE TEMPORARILY REMOVED AND REINSTALLED IN SAME LOCATION.
ХА	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO BE ABANDONED.
ХМ	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO BE MODIFIED.
XW	EXISTING ELECTRICAL EQUIPMENT TO BE REWIRED.
NOTE: NOT	ALL SYMBOLS MAY BE USED.

	/	- SWITCH FRAME SIZE.	(WG)	FIRE ALARM SYSTEM CEILING SMOKE DETECTOR. - "WG" DENOTES WIRE GUARD
		- NUMBER OF FUSIBLE POLES.	(FT,WG)	FIRE ALARM SYSTEM CEILING HEAT DETECTOR.
				- "FT" DENOTES FIXED TEMPERATURE. - "WG" DENOTES WIRE GUARD.
	2012120128	TNEMA ENCLOSURE RATING. (NEMA T STANDARD, 3R OUTDOORS AND WET LOCATIONS U.N.O.)	(WG)	FIRE ALARM SYSTEM CEILING VISUAL NOTIFICATION.
	NEMA 00	TUSIDEL SWITCH RATING TAG.	(WG)	FIRE ALARM SYSTEM CEILING AUDIO/VISUAL NOTIFICATION.
	Ø	NUMA STANILA SIZL.	∇	- "WG" DENOTES WIRE GUARD.
		LINCLOSED CIRCUIT DREARER.	(WG)	FIRE ALARM SYSTEM CEILING SPEAKER/STROBE NOTIFICATION. - "WG" DENOTES WIRE GUARD.
	¢1	MUTUR.	FACP	FIRE ALARM CONTROL PANEL.
	₽	MANUAL MUTUR STARTER, THERMAL OVERLOAD TOGGLE SWITCH.	FAAP	FIRE ALARM ANNUNCIATOR PANEL.
	•	CEILING JUNCTION BOX.	NAC	FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT PANEL.
	¥	WALL MOUNTED JUNCTION BOX.	DSD	FIRE ALARM SYSTEM DUCT SMOKE DETECTOR.
	لي بي ج	JUNCTION BOX WITH FLEXIBLE CONDUIT FOR FINAL CONNECTION TO EQUIPMENT.	DCD	FIRE ALARM SYSTEM DUCT CARBON MONOXIDE DETECTOR.
	Ψ	INERMOSTAT, PROVIDE RECESSED JUNCTION BOX AND CONDULT STUB-UP, REFER TO MECHANICAL FOR EXACT QUANTITY AND LOCATION.	VSS	FIRE ALARM VALVE SUPERVISORY SWITCH.
	\bigcirc	CO2 SENSOR, PROVIDE RECESSED JUNCTION BOX AND CONDUIT STUB-UP, REFER TO MECHANICAL FOR EXACT QUANTITY AND	FS	WATER FLOW SWITCH.
	<u> </u>	LOCATION. CONDUIT ROUTED CONCEALED IN WALLS AND CEILING. HASH MARKS DENOTE QUANTITY OF #12 MINIMUM AWG CONDUCTORS		TAMPER SWITCH.
		OR AS NOTED.		MAGNETIC DOOR HOLDER.
	<u>∕_</u> +ıı-∕	CONDUIT ROUTED EXPOSED. INSTALL PARALLEL TO WALLS AND CEILINGS. HASH MARKS DENOTE QUANTITY OF #12 MINIMUM AWG CONDUCTORS OR AS NOTED.	坚 ^(m,m)	- "TA" DENOTES TORNADO ALARM. - "FA" DENOTES FIRE ALARM.
	_	CONDUIT ROUTED BELOW GRADE. HASH MARK DENOTES QUANTITY OF #12 MINIMUM AWG CONDUCTORS OR AS NOTED.	<u></u>≸ K	FIRE ALARM SYSTEM DUCT SMOKE DETECTOR KEY OPERATED TEST SWITCH WITH INDICATING LIGHT, WALL OR CEILING MOUNTED.
	11	- DENOTES CONDUIT HOMERUN, 3/4" MINIMUM, PANEL DESTINATION AND CIRCUIT NUMBER(S) AS INDICATED.		SECURITY CAMERA. (WALL MOUNT)
			ß	SECURITY CAMERA. (MOUNTED IN THE ACOUSTIC CEILING TILE)
		- SHORT TICK MARK DENOTES LINE (HOT) OR SWITCH LEG CONDUCTOR, #12 MINIMUM AWG.	Ŷ	SECURITY SENSOR/INITIATOR.
		- LONG TICK MARK DENOTES NEUTRAL CONDUCTOR, #10 AWG MINIMUM.		MAGNETIC POSITION SWITCH, DOOR OR WINDOW.
	L	- DENOTES INSULATED GROUND WIRE, #12 AWG MINIMUM.	EDS	ELECTRONIC DOOR (LOCK) STRIKE.
		CONDUIT END CAP.		POWER ASSISTED DOOR ACTUATOR.
	[]	CONDUIT WALL SLEEVES FOR ROUTING OF LOW VOLTAGE CABLING. EACH PENETRATION IS TO PROVIDE A MINIMUM OF (1) 1 1/4" CONDUIT (DATA) & (1) 1" CONDUIT (FIRE ALARM/INTERCOM) U.N.O.	SEC	SECURITY SYSTEM CONTROL PANEL.
	∇	DATA OUTLET LOCATION INSTALLED 16" A.F.F. U.N.O.	K	SECURITY SYSTEM KEY PAD.
	¥	TELEPHONE OUTLET LOCATION INSTALLED 16" A.F.F. U.N.O.	면	ACCESS CONTROL CREDENTIAL READER.
	₽	DATA OUTLET LOCATION INSTALLED 42" A.F.F. U.N.O.		
	Ŧ	TELEPHONE OUTLET LOCATION INSTALLED 42" A.F.F. U.N.O.		
	\Box	DATA OUTLET LOCATION, CEILING MOUNTED.		
	S (3)	FLUSH CEILING SPEAKER, ROUND OR SQUARE.		
	لم) (AV)	WEATHERPROOF PROJECTION TYPE WALL MOUNTED SPEAKER. - "AV" DENOTES PART OF AUDIO-VIDEO SYSTEM.		
	S (VR,WP)	WALL MOUNTED SPEAKER. - "AV" DENOTES PART OF AUDIO-VIDEO SYSTEM.		
		MICROPHONE OUTLET INSTALLED 16" A.F.F.		
	WAP	WIRELESS ACCESS POINT DATA OUTLET INSTALLED ABOVE SUSPENDED CEILING U.N.O.		
		TELEVISION CONNECTION PLATE INSTALLED 96" A.F.F. U.N.O.		
		AUDIO/VIDEO CONNECTION PLATE INSTALLED 16" A.F.F. U.N.O.		
	AV	AUDIO/VIDEO CONNECTION PLATE, CEILING MOUNTED.		
	F (VR)	FIRE ALARM SYSTEM PULL STATION INSTALLED 48" A.F.F. - "VR" DENOTES VANDAL RESISTANT COVER.		
	[V] (WG)	FIRE ALARM SYSTEM VISUAL NOTIFICATION INSTALLED 80" A.F.F. - "WG" DENOTES WIRE GUARD.		
IZE	H (WG)	FIRE ALARM SYSTEM AUDIO/VISUAL NOTIFICATION INSTALLED 80" A.F.F. - "WG" DENOTES WIRE GUARD.		
	WG)	FIRE ALARM SYSTEM SPEAKER/STROBE NOTIFICATION INSTALLED 80" A.F.F. - "WG" DENOTES WIRE GUARD.		

Preliminary - Not For Construction

<u>DE</u> ∣.	MOLITION PLAN GENERAL NOTES ALL INDICATED ELECTRICAL EQUIPMENT, FIXTURES, DEVICES, AND RELATED CONDUIT AND WIRING TO BE REMOVED LINESS NOTED OTHERWISE	<u>GE</u> ⊥.	WORK SHOWN ON DRAW
2.	ALL DEMOLITION OF THE ELECTRICAL SYSTEM AS NOTED ON THE DEMOLITION DRAWINGS SHALL BE COORDINATED WITH THE RENOVATION REQUIREMENTS TO DETERMINE THIS CONTRACTOR'S WORK.	2.	DRAWINGS ARE GENERAL INTEND TO SHOW EVERY DURING THE INSTALLATIC ROUTING SHOWN ON TH
3.	IT IS THE INTENT OF THE ELECTRICAL DEMOLITION DRAWING(S) TO INDICATE AREAS IN WHICH ELECTRICAL EQUIPMENT, CONDUIT, LUMINAIRES, DEVICES, ETC. NEED TO BE	2	THE WORK OF OTHER TR THE OWNER OR DELAY IN
	REMOVED, RELOCATED, OR MODIFIED BY THIS CONTRACTOR TO ALLOW FOR THE RENOVATION PHASE OF CONSTRUCTION. THE ELECTRICAL DEMOLITION PLAN IS FOR REFERENCE PURPOSES ONLY AND IT IS NOT INTENDED TO BE THE SOLE SOURCE OF EXISTING CONDITIONS.	5.	NOTWITHSTANDING THE PRESENTATION.
4.	CONTRACTOR SHALL VISIT THE BUILDING, BEFORE SUBMITTING THEIR BID, TO VERIFY THE EXISTING CONDITIONS WHICH WILL AFFECT THEIR WORK.	4.	CONTRACTOR SHALL CH ARE CLEAR OF OBSTRUC ALL POINTS IN THE BUILD ARCHITECT/ENGINEER BE
5.	CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE ELECTRICAL DEMOLITION REQUIRED TO ACCOMMODATE THE RENOVATION. REMOVE AS REQUIRED ALL LUMINAIRES, CONNECTIONS TO MECHANICAL EQUIPMENT, DEVICES, ETC PULL OUT ALL	5.	CONTRACTOR SHALL FUI OF PIPING, DUCTWORK, THEIR WORK TO PERMIT
	ELECTRICALLY DISCONNECT AIR HANDLING UNITS, PUMPS, BOILERS, AND OTHER SUCH EQUIPMENT FOR REMOVAL BY OTHERS. BACKFEED AS REQUIRED ALL DOWNSTREAM DEVICES WHICH REMAIN. (THE CONTRACTOR SHALL COORDINATE WITH THE OWNER WHICH ITEMS INDICATED TO BE REMOVED & DISCONNECTED SHALL BE SALVAGED AND PRESENTED TO THE OWNER PRIOR TO ANY DISPOSAL OF THESE ITEMS.)	6.	WHERE THERE IS EVIDEN MEET ON JOB SITE TO W NEW WORK. CONTRACTO DRAWINGS, AND WORK O EXPENSE, FOR THE REMO
6.	ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. WHERE WORK CALLED FOR ON THE DRAWINGS OR IN THE SPECIFICATIONS INVOLVES THE REMOVAL OF FLUORESCENT LAMPS CONTAINING MERCURY OR CLOTH INSULATED CONDUCTORS, THEY SHALL BE PROPERLY HANDLED AND REMOVED FROM SITE BY APPROVED METHODS PER EPA REGULATIONS.	7.	CONSULTING WITH OTHE CONTRACTOR SHALL PRO REQUIRED BY JOB SITE (WHICH ARE REQUIRED TO AND SIZES SHALL BE CH
7.	ALL EXISTING RECEPTACLES/DATA OUTLETS/DEVICES/EQUIPMENT THAT ARE NOT PART OF DEMOLITION SHALL REMAIN AS IS UNLESS NOTED OTHERWISE. CONTRACTOR SHALL CHECK AND VERIFY FOR CONTINUING OPERATION OF THESE DEVICES PRIOR TO	8.	MEMBER. THE SEQUENCE FOR THE
	SUBSTANTIAL COMPLETION. IF ANY EXISTING CIRCUITS TO REMAIN ARE INTERRUPTED BY DEMOLITION OR NEW CONSTRUCTION, CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT/REMOVAL/REROUTING/MODIFICATION OF CONDUITS AND WIRES INCLUDING	9.	AND IN STRICT ACCORD
8.	EXTENSION, AS REQUIRED TO MAINTAIN FUNCTIONALITY OF DOWNSTREAM RECEPTACLES/DATA OUTLETS/DEVICES/EQUIPMENT. THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT PHASING AND MAINTAIN	10.	UNLESS INDICATED ON A
9.	EXISTING SYSTEMS ACTIVE IN AREAS WHICH REMAIN OCCUPIED. EXISTING CEILING MOUNTED SPEAKERS, PROGRAM BELLS, FIRE ALARM DEVICES, AND SIMILAR ELECTRICAL EQUIPMENT AND DEVICES TO REMAIN SHALL BE EXTENDED AND REINSTALLED AS REQUIRED IN NEW CEILINGS. FIELD VERIFY EXACT QUANTITIES AND REQUIREMENTS.		CUTTING, PATCHING, REI REQUIRED TO ACCOMMO TILES AS REQUIRED TO I DAMAGED DURING CONS ELEMENTS SHALL BE PER CONSTRUCTION AS CLO FOR DETERMINING EXIST
10.	SUPPORT ALL CABLING DRAPED OR LYING LOOSE ABOVE EXISTING CEILINGS WHICH ARE SCHEDULED TO BE REMOVED. TIE WRAP CABLING TO JOISTS OR OTHER STRUCTURAL MEMBERS AS REQUIRED. UPON THE COMPLETION OF THE PROJECT, NO WIRING SHALL BE LYING ON ACCESSIBLE CEILINGS.		DAMAGE ANY EXISTING E DAMAGED DURING THE I PAID FOR BY THE INSTAL DRAWINGS FOR EXISTING REFINISHING, AND REMO
	HTING PLAN GENERAL NOTES	11.	CONTRACTOR SHALL BE SUCH CLEAN-UP, THE AR NEGLIGENT CONTRACTOR
<u> </u>	THE MINIMUM WIRE SIZE SHALL BE #12 AWG EXCEPT FOR SHARED NEUTRAL CONDUCTORS WHICH THE MINIMUM SIZE SHALL BE #10 AWG. THE MINIMUM CONDUIT SIZE FOR HOMERUNS SHALL BE 3/4". 1/2" CONDUIT IS ACCEPTABLE FOR BRANCH WIRING TO LUMINAIRES WHERE APPLICABLE. ALL LIGHTING BRANCH CIRCUITS SHALL TERMINATE AT 20A/1-POLE CIRCUIT BREAKERS IN PANELBOARD INDICATED UNLESS NOTED OTHERWISE.	12.	ARCHITECT/ENGINEER. CONTRACTOR SHALL INS EQUIPMENT, ETC. ALL SU MEMBERS ONLY.
2.	PROVIDE LOCK-ON CIRCUIT BREAKER DEVICES FOR ALL EMERGENCY LIGHTING & EXIT SIGN BRANCH CIRCUITS.	13.	IT IS MANDATORY THAT DURING REMODELING/AL
3.	REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LUMINAIRE LOCATIONS. REFER TO ARCHITECTURAL ELEVATIONS FOR LUMINAIRE SUSPENSION LENGTHS AND MOUNTING HEIGHTS.		CONTINUOUS OPERATIO TEMPERATURE CONTROL SHALL BE ARRANGED WI
4.	ALL LUMINAIRES SHOWN HALF SHADED SHALL BE WIRED (NON-SWITCHED CIRCUIT) DIRECTLY TO THE EMERGENCY PANEL. PROVIDE DEDICATED NEUTRAL CONDUCTOR TO EACH BRANCH CIRCUIT TO THE EMERGENCY PANEL.		AND INSTALLED UNDER T REMOVED BY THE CONT
5.	CIRCUIT NUMBER(S), WHERE SHOWN, ARE TO INDICATE QUANTITY OF CIRCUITS REQUIRED. VERIFY EXACT CIRCUIT NUMBER TO BE UTILIZED IN FIELD. CONTRACTOR SHALL PROVIDE ACTUAL CIRCUITING AS PART OF "AS BUILT" DRAWINGS.	14.	HAZARDOUS OR CONTAI ARE PRESENT WITHIN TH SPECIFICATIONS SHALL
6.	EMERGENCY BATTERY PACKS SHOWN ARE TO BE CONNECTED TO THE NEAREST LIGHTING BRANCH CIRCUIT AHEAD OF LOCAL SWITCH UNLESS NOTED OTHERWISE.	15	IMMEDIATELY.
7.	ALL LAY-IN FIXTURES SHALL BE INDEPENDENTLY SUPPORTED AT OPPOSITE CORNERS TO A STRUCTURAL MEMBER.	13.	STORED OUTSIDE OF TH PLANKS AND/OR WOOD OR VISQUEEN. ALL CON
8.	PROVIDE PULL BOX(ES) BETWEEN PULL POINTS AS REQUIRED TO COMPLY WITH NEC 344.26 SUCH THAT THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREE TOTAL) BETWEEN PULL POINTS.	10	ALLOWED TO BE STORED WEATHERPROOF COVERS
9.	ALL DIMMING SYSTEM CONTROL WIRING SHALL BE RATED AT GOOV AND SHALL BE IN THE SAME CONDUIT AS THE CIRCUIT PROVIDING POWER TO THE LIGHT FIXTURE. CONDUIT SHALL BE 1/2" MINIMUM FOR DIMMING SYSTEM CONTROL WIRING WHERE RAN INDEPENDENT OF THE CIRCUIT SUPPLYING POWER TO THE FIXTURES.	10.	EQUIPMENT AS THE BAS ACCEPTABLE MANUFACT SHALL BE RESPONSIBLE SHOWN ON THE DRAWIN SHOWN ON THE DRAWIN
10.	PROVIDE SEPARATE NEUTRAL FOR ALL DIMMED CIRCUITS.		AROUND EQUIPMENT FO DOES NOT MEET THE PH
11.	IN NEW WORK, CONTRACTOR SHALL PROVIDE COMMON DISCONNECTING MEANS FOR BRANCH CIRCUITS UTILIZING SHARED NEUTRALS PER ARTICLE 210.4(B). HANDLE TIES ARE ACCEPTABLE WHEN BREAKERS ARE "SLASH RATED" FOR THE HIGHER SYSTEM VOLTAGE RATING OF THE SYSTEM. WHEN HANDLE TIES ARE NOT POSSIBLE DUE TO NON-ADJACENT BREAKERS, PROVIDE		ALL ALTERATIONS REQUI WILL ALSO PAY ALL COST MAKE CHANGES WHICH
	A DEDICATED NEUTRAL FOR EACH UNGROUNDED CONDUCTOR.	17.	CONTRACTOR AND/OR M
10	IN FUSTING WORK WHEN LITHING FUSTING SPACES OF SPACES CONTRACTOR SHALL		REVIEW MEET THE CAPA

RICAL REMODELING NOTES

VINGS SHALL BE CONSIDERED NEW AND IN CONTRACT UNLESS SPECIFICALLY INDICATED OTHERWISE.

ALLY DIAGRAMMATIC. ROUTING OF CONDUITS, RACEWAYS, ETC., AS SHOWN ON DRAWINGS DOES NOT RISE, DROP, OFFSET, FITTING, NOR EVERY STRUCTURAL ELEMENT THAT MAY BE ENCOUNTERED ION OF THIS WORK. EACH CONTRACTOR SHALL MAKE ANY REQUIRED CHANGES FROM THE GENERAL HESE DRAWINGS, SUCH AS OFFSETS, BENDS, OR CHANGES IN ELEVATION DUE TO COORDINATION WITH RADES AND BUILDING CONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO N COMPLETION DATE OF THE PROJECT.

QUIPMENT SHALL BE LOCATED SYMMETRICALLY WITH THE ARCHITECTURAL ELEMENTS OF THE BUILDING, FACT THAT LOCATIONS INDICATED BY THESE DRAWINGS MAY BE DISTORTED FOR CLEARNESS OF

TECK DRAWINGS OF OTHER TRADES TO VERIFY THAT SPACES IN WHICH THEIR WORK WILL BE INSTALLED CTIONS. WORK SHALL BE INSTALLED TO MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT DING. WHERE HEADROOM OR SPACE CONDITIONS APPEAR INADEQUATE, CONTRACTOR SHALL NOTIFY EFORE PROCEEDING WITH THE INSTALLATION OF THEIR WORK.

JRNISH OTHER TRADES ADVANCE INFORMATION AND/OR SHOP DRAWINGS ON LOCATIONS AND SIZES CONDUIT, RACEWAYS, EQUIPMENT, FRAMES, BOXES, SLEEVES, AND OPENINGS, ETC. NEEDED FOR OTHER TRADES AFFECTED TO INSTALL THEIR WORK PROPERLY AND WITHOUT DELAY.

NCE THAT WORK OF ONE TRADE WILL INTERFERE WITH WORK OF OTHER TRADES, ALL TRADES SHALL WORK OUT SPACE CONDITIONS AND MAKE SATISFACTORY ADJUSTMENTS TO INSTALLATION OF THE ORS SHALL VERIFY EXACT LOCATIONS OF ALL DEVICES AND EQUIPMENT WITH FIELD CONDITIONS, SHOP OF OTHER TRADES PRIOR TO ROUGH-IN. EACH CONTRACTOR SHALL BE RESPONSIBLE, AT THEIR OWN IOVAL AND REINSTALLATION OF ANY PART OF THEIR WORK IF SAME WAS INSTALLED WITHOUT ER TRADES BEFORE INSTALLING THEIR WORK.

COVIDE SLEEVES IN BEAMS, FLOORS, COLUMNS, AND WALLS AS SHOWN ON THE DRAWINGS, AS CONDITIONS, AND/OR AS SPECIFIED, WHEN INSTALLING THEIR WORK. ALL BEAMS AND COLUMNS TO BE SLEEVED SHALL BE CUT AND REINFORCED AS REQUIRED BY FIELD CONDITIONS AND LOCATIONS IECKED AND APPROVED BY ARCHITECT BEFORE CONTRACTOR CUTS ANY STRUCTURAL BUILDING

E INSTALLATION OF ALL WORK SHALL BE COORDINATED BETWEEN ALL CONTRACTORS ON THE PROJECT ANCE WITH THE PROJECT REQUIREMENTS AND OWNER'S STIPULATION AS DIRECTED.

FER TO THE ARCHITECTURAL AND STRUCTURAL CONTRACT DRAWINGS (BEFORE SUBMITTING THEIR HEMSELVES WITH THE EXTENT OF THE GENERAL CONTRACTOR'S WORK, CEILING HEIGHTS, AND LLING THEIR WORK.

ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE AND PAY FOR ALL CORING, PAIRING, REFINISHING, AND REMOVAL/REPLACEMENT OF NEW OR EXISTING BUILDING CONSTRUCTION ODATE THE INSTALLATION OR REMOVAL OF THEIR WORK. REMOVE, STORE, AND REINSTALL CEILING INSTALL WORK ABOVE EXISTING REMOVABLE CEILINGS WHICH REMAIN; REPLACE TILES BROKEN OR ISTRUCTION. ALL PATCHING, REPAIRING, AND REFINISHING WORK TO OTHER FINISHES AND STRUCTURAL RFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE ADJACENT DSELY AS POSSIBLE WHILE MAINTAINING EXISTING FIRE RATINGS. CONTRACTOR SHALL BE RESPONSIBLE TING FIRE RATINGS OF CEILINGS AND PARTITIONS SYSTEMS. CARE SHALL BE TAKEN SO AS NOT TO BUILDING CONSTRUCTION OR ITEMS THAT ARE TO REMAIN. ANY EXISTING FINISHES THAT ARE INSTALLATION OF NEW WORK OR REMOVAL OF EXISTING WORK SHALL BE REPAIRED, REPLACED, AND LLING CONTRACTOR TO THE SATISFACTION OF THE ARCHITECT AND OWNER. REFER TO ARCHITECTURAL IG BUILDING CONSTRUCTION THAT IS TO REMAIN AND, THEREFORE, SUBJECT TO PATCHING, REPAIRING, OVAL/REPLACEMENT.

E RESPONSIBLE FOR THEIR OWN CLEAN-UP DURING CONSTRUCTION. IF CONTRACTOR FAILS TO PROVIDE RCHITECT/ENGINEER WILL DIRECT ANOTHER CONTRACTOR TO PERFORM THE CLEAN-UP AND THE OR SHALL PAY THE ASSOCIATED BACK-CHARGES AS DEEMED APPROPRIATE BY THE

ISTALL ALL AUXILIARY SUPPORTING STEEL AS REQUIRED FOR THE SUPPORTING OF THEIR CONDUIT. UPPORTING STEEL FOR ITEMS ABOVE A SUSPENDED CEILING SHALL BE FROM BUILDING STRUCTURAL

THE COMPLETE EXISTING BUILDING REMAIN IN CONTINUOUS AND NON-INTERRUPTED OPERATION TERING OF SAID EXISTING BUILDING. THE SPECIFIC AREA(S) BEING REMODELED/ALTERED AT ANY DBVIOUSLY EXCLUSIVE OF THIS STATEMENT. SERVICES TO EXISTING BUILDING SHALL BE KEPT IN ON INCLUDING POWER, SIGNAL SYSTEMS, LIGHTING, TELEPHONE, HEATING, COOLING, VENTILATING, .. ANY ABSOLUTELY NECESSARY INTERRUPTION OF THESE SERVICES TO ACCOMPLISH CONTRACT WORK (ITH THE OWNER A MINIMUM OF TEN (10) WORKING DAYS IN ADVANCE. SUCH INTERRUPTIONS SHALL BE MINIMUM AS FAR AS TIME INTERVAL IS INVOLVED AND TEMPORARY SERVICES SHALL BE FURNISHED THIS CONTRACT WHERE NECESSARY TO ACCOMPLISH THIS PURPOSE. TEMPORARIES SHALL BE FRACTOR ONLY AFTER NEW PERMANENT SERVICES ARE INSTALLED AND FULLY OPERATIONAL.

IERWISE, THE ARCHITECT/ENGINEER MAKES NO REPRESENTATION AS TO WHETHER OR NOT ANY MINATED MATERIALS (INCLUDING BUT NOT LIMITED TO ASBESTOS, PCB'S, CONTAMINATED SOILS, ETC.) HE EXISTING BUILDING OR ON THE SITE. WORK SHOWN ON THE DRAWINGS AND/OR INDICATED IN THE NOT BE CONSTRUED TO CALL FOR CONTACT WITH ANY OF THESE MATERIALS. IF THESE MATERIALS ARE PECTED, THE CONTRACTOR SHALL NOT DISTURB THEM AND SHALL CONTACT THE ARCHITECT/ENGINEER

TORE ALL MATERIALS AND EQUIPMENT SHIPPED TO THE SITE IN A PROTECTED AREA. IF MATERIAL IS "HE BUILDING, IT MUST BE STORED OFF THE GROUND A MINIMUM OF SIX INCHES (6") SET ON 6 X 6 PALLETS. ALL MATERIAL AND EQUIPMENT MUST BE COMPLETELY COVERED WITH WATERPROOF TARPS IDUIT WILL HAVE THE ENDS CLOSED TO KEEP OUT DIRT AND OTHER DEBRIS. NO EQUIPMENT WILL BE D ON THE SITE UNLESS IT IS SITTING ON WOOD PLANKS AND COMPLETELY PROTECTED WITH

ULES, AND SPECIFICATIONS HAVE BEEN PREPARED USING ONE MANUFACTURER FOR EACH PIECE OF 51S FOR DIMENSIONAL DESIGN. IF THE CONTRACTOR PURCHASES EQUIPMENT FROM A SPECIFIED TURER, BUT NOT THE SCHEDULED MANUFACTURER USED FOR THE BASE DESIGN, THE CONTRACTOR FOR CHECKING ALL THE DIMENSIONS OF THE EQUIPMENT TO VERIFY THAT IT WILL FIT IN THE SPACE NGS. MINOR DEVIATIONS IN DIMENSIONS WILL BE PERMITTED, PROVIDED THE RATINGS MEET THOSE NGS AND EQUIPMENT WILL PHYSICALLY FIT INTO THE SPACE ALLOCATED WITH SUITABLE ACCESS OR OPERATION AND MAINTENANCE OF THE EQUIPMENT. WHEN EQUIPMENT SUBMITTED FOR REVIEW IYSICAL SIZE OR ARRANGEMENT OF THAT SCHEDULED AND SPECIFIED, CONTRACTOR SHALL PAY FOR IRED TO ACCOMMODATE SUCH EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR TS FOR ADDITIONAL WORK REQUIRED BY OTHER CONTRACTORS, OWNER, ARCHITECT OR ENGINEER TO WOULD ALLOW THE EQUIPMENT TO FIT IN THE SPACE AND FUNCTION AS INTENDED.

VANUFACTURER SHALL VERIFY THAT THE CHARACTERISTICS OF THE EQUIPMENT HE SUBMITS FOR ACITY AND DUTY SPECIFIED.

RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND THEIR ASSOCIATED FEES.

19. CONTRACTOR SHALL PROVIDE WARRANTY FOR ALL MATERIAL AND GUARANTEE ALL WORKMANSHIP PROVIDED BY HIM FOR 1 (ONE) YEAR FROM SUBSTANTIAL COMPLETION OF WORK INVOLVED.

<u>NOTE</u>

INCLUDE COSTS IN BID PROPOSAL TO LOCATE AND MARK EXISTING UNDERGROUND UTILITIES WHERE NEW UNDERGROUND WORK IS INDICATED. PRIOR TO ANY CONSTRUCTION ACTIVITIES, FOR LOCATION OF UTILITIES, CALL J.U.L.I.E. AT 1-800-892-0123.

NOTE LUGS AND TERMINATIONS ON ELECTRICAL EQUIPMENT SHALL BE SIZED TO ACCOMMODATE THE THE NUMBER OF PARALLEL SETS AND SIZE OF CONDUCTORS TO MAKE FULL SIZE TERMINATIONS WITHOUT INVALIDATING THE TESTING LABEL AND LISTING BY A NATIONALLY RECOGNIZED TESTING AGENCY (UNDERWRITERS LABORATORY OR EQUIVALENT). INSTALLATION OR MODIFICATION OF LUGS AND TERMINATIONS AT ELECTRICAL EQUIPMENT WILL NOT BE ACCEPTABLE UNLESS IN COMPLIANCE WITH THE ORIGINAL EQUIPMENT MANUFACTURE AND TESTING AGENCY.

NOTE INCIDENTAL WORK MAY ALSO BE NECESSARY DUE TO CHANGES AFFECTING. SITE WORK. ELECTRICAL, OR OTHER SYSTEMS. SUCH INCIDENTAL WORK IS ALSO PART OF THIS CONTRACT. INSPECT THOSE AREAS, COORDINATE WITH OTHER TRADES, AND ASCERTAIN WORK NEEDED, AND DO THAT WORK IN ACCORD WITH THE CONTRACT REQUIREMENTS, AT NO ADDITIONAL COST. THE REMOVAL & REINSTALLATION OF EXISTING WORK TO ACCOMMODATE CHANGES TO EXISTING, OR INSTALLATION OF, ELECTRICAL, OTHER SYSTEMS IS ALSO PART OF THIS CONTRACT.

NOTE

BUS BAR TAPS AT ELECTRICAL EQUIPMENT WILL NOT BE ACCEPTABLE UNLESS TAPS ARE MADE AT UTILIZING LUGS AND HOLES IN BUS BARS SUPPLIED OR APPROVED BY THE ORIGINAL EQUIPMENT MANUFACTURE, NOR SHALL TAPS INVALIDATE THE TESTING LABEL AND LISTING BY A NATIONALLY RECOGNIZED TESTING AGENCY (UNDERWRITERS LABORATORY OR EQUIVALENT).

<u>NOTE</u>

EXISTING CONDITIONS WERE OBTAINED FROM EXISTING AS-BUILT DRAWINGS AND CURSORY FIELD JESERVATION. THIS CONTRACTOR SHALL IDENTIFY ANY DISCREPANCIES IN THE FIELD AND REPORT THEM TO THE ENGINEER.

NOTE

SCHEDULE ELECTRIC SERVICE OUTAGE WITH UTILITY COMPANY AND NOTIFY OWNER, ARCHITECT AND LOCAL AUTHORITIES (10) DAYS IN ADVANCE. BUILDING SHALL BE UNOCCUPIED DURING OUTAGE UNLESS TEMPORARY POWER IS PROVIDED TO MAINTAIN LIFE SAFETY SYSTEMS THROUGH THE DURATION OF THE OUTAGE. RESET AND RESTART ALL SYSTEMS INCLUDING, BUT NOT LIMITED TO, FIRE ALARM, SECURITY AND TELECOMMUNICATIONS AFTER RESTORING BUILDING POWER.

NOTE

ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRICAL SERVICE TO THE SITE COORDINATE POWER REQUIREMENTS WITH COMED POWER COMPANY AND OTHER TRADES, FOR AMOUNT OF TEMPORARY POWER REQUIRED. PROVIDE DISTRIBUTION PANEL, RELATED WIRING, TEMPORARY OUTLETS AND WIRING, AND TEMPORARY LIGHTING AS REQUIRED FOR ALL TRADES. CONFORM TO O.S.H.A., N.E.C., AND ALL OTHER LOCAL CODE REQUIREMENTS.

BIDDING NOTE

SEE DRAWINGS ME1.0 FOR GENERAL NOTES AND ADDITIONAL DETAILS APPLICABLE TO THIS TRADE'S WORK.

PAINEL SUREULE. MP-1								INEKAPY U131				C.B. RATING: 22 KAI		
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REMARKS: NEW ELECTRIC	AL PANEL								-	REMAR	KS: NEW ELE		_ PANEL							
				V.A.												V.A.				
USE AND/OR AREA SERVE	D C/B	NO.	A	В	C	NO. C	B USE	AND/OR AREA SERVED		USE AN	ID/OR AREA S	ERVED	C/B	NO.	A	В	С	NO. C)/В	USE AND/OR AREA
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TOTAL CONNECTED LOA	D PER PHASE	:	11374	11978	11781	97.5	35,1 2 AMP	25 VA	-	TOTA	AL CONNECTE	D LOAD	PER PHASI	Ξ:	9837	7622	7622	69.6	- — 52	23,000 VA AMPS
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												OCCI	JPANC	Y SE	ENSOR	R AND (CONT	ROLS	SC	HEDULE
										-	SYMBOL	TYPE	DES	CRIP [.]	TION	MOUNT	MA TING CA	NUFACTI FALOG N	URER IUMBE	& ACCEPTABLE
	INTERIO	RI	LUMIN	AIRE S	SCHE	DULE						nA	STANDARD	RANGE	360°, LOW	CEILIN	IG I	LIGHT nCM-	-9-RJB	HUBBELL, WATTSTOP
DESCRIPTION	MOUNTING			TAGE W	NPUT ATTS	MANUFAC CATALOG	TURER & NUMBER	ALTERNATE MANUFACTURER	NOTES		(\circ)		VOLIAGE, I	ASSIV	'E INFRARED					
RECESSED VOLUMETRIC TROFFER,	RECESSED		ED I	20 V 3	30.5	LITHC	NIA	HUBBELL, PHILIPS	-			₽R		PANCE	3000 1014/	C FILIN	1C n			
4000 NOMINAL LUMENS	PECESSED	1.6		20.1/ 3	20.2	2BLT4-4OL-	ADP-LP835	HUBBELL PHILIPS		-	\bigcirc	UIU	VOLTAGE, I	PASSIV	'E INFRARED	CLILIN			IU-NJD	
4800 NOMINAL LUMENS	NLULJJLD			20 V	50.5	2BLT4-48L-	ADP-LP835		-											
RECESSED VOLUMETRIC TROFFER,	RECESSED	LE	ED I	20 V	16.4	LITHC				_		nK	ON/OFF/DIM K	EY SWI	TCH CONTRO	DL WALL	-	nLIGHT nPOI	D-KEY	HUBBELL, WATTSTOP
RECESSED VOLUMETRIC TROFFFR	RECESSED		ED I	20 V 2	26.5	ZDLIZ-ZUL-	NIA			-	\$			STATIO	Ν					
3300 NOMINAL LUMENS						2BLT2-33L-	DP-LP835			1		.	0.000		E ZOUE					
RECESSED VOLUMETRIC TROFFER, 4000 NOMINAL LUMENS	RECESSED	Lt	ED I	20 V	31	LITHC 2BI T2-401 -	NIA ADP-1 P835				ф	nPA	ON/OFI PUSH-BUTTO	- SINGL N CONT	LE ZUNE TROL STATION	WALL	-	nLIGHT nP(JUM	HUBBELL, WATTSTOP
6 INCH LED DOWNLIGHT	RECESSED	LE	ED I	20 V	3.4	GOTHAM	IGHTING	EATON, HE WILLIAMS, PHILIPS	_	1										
	DECECED	1,1		20.1/		EV06-35/02	-AR-MD-LS			-		nPB	ON/OFF/D	IM, SIN	IGLE ZONE	WALL	-	ILIGHT nPOE	DM-DX	HUBBELL, WATTSTOP
6 INGTELLY VOWNLIGTI	RLULJJEU				IU	GUITIAM EVO6-35/10	-AR-MD-LS	LATUN, FIL WILLIAMO, MILLIPO	-		\$		PUSH-BUTTO	N CONT	TROL STATION	N				
4' LED STRIP LIGHT	SURFACE	LE	ED I.	20 V	19.1 CLX	LITHC -L48-3000LN LT-35K-	NIA 1-SEF-FDL-M' 80CR\	VO			ф.	nPC	ON/OFI PUSH-BUTTO	= SINGL N CON1	E ZONE	WALL	-	nLIGHT nPC	ODM	HUBBELL, WATTSTOP

TYPE	DESCRIPTION	MOUNTING	LAMPS	VOLTAGE	INPUT WATTS	MANUFACTURER & CATALOG NUMBER	ALTERNATE MANUFACTURER	NOTES		
FIA	2'X4' LED RECESSED VOLUMETRIC TROFFER, 4000 NOMINAL LUMENS	RECESSED	LED	120 V	30.5	LITHONIA 2BLT4-40L-ADP-LP835	HUBBELL, PHILIPS	-		
FIB	2'X4' LED RECESSED VOLUMETRIC TROFFER, 4800 NOMINAL LUMENS	RECESSED	LED	120 V	39.3	LITHONIA 2BLT4-48L-ADP-LP835	HUBBELL, PHILIPS	-		
F2A	2'X2' LED RECESSED VOLUMETRIC TROFFER, 2000 NOMINAL LUMENS	RECESSED	LED	120 V	16.4	LITHONIA 2BLT2-20L-ADP-LP835				
F2B	2'X2' LED RECESSED VOLUMETRIC TROFFER, 3300 NOMINAL LUMENS	RECESSED	LED	120 V	26.5	LITHONIA 2BLT2-33L-ADP-LP835				
F2C	2'X2' LED RECESSED VOLUMETRIC TROFFER, 4000 NOMINAL LUMENS	RECESSED	LED	120 V	31	LITHONIA 2BLT2-40L-ADP-LP835				
F3A	6 INCH LED DOWNLIGHT	RECESSED	LED	120 V	3.4	GOTHAM LIGHTING EVOG-35/02-AR-MD-LS	EATON, HE WILLIAMS, PHILIPS	-		
F3B	6 INCH LED DOWNLIGHT	RECESSED	LED	120 V	10	GOTHAM LIGHTING EVOG-35/10-AR-MD-LS	EATON, HE WILLIAMS, PHILIPS	-		
F4	4' LED STRIP LIGHT	SURFACE	LED	120 V	19.1	LITHONIA CLX-L48-3000LM-SEF-FDL-MVO LT-35K-80CR\				
F5	6 INCH LED WALL WASH DOWNLIGHT	SURFACE	LED	120 V	10	GOTHAM LIGHTING EVOG-35/10-AR-MD-LS				
NOTES:										

CONTRACTOR TO PROVIDE ALL OPTIONS AND ACCESSORIES AS REQUIRED TO INSTALL FIXTURE IN VARYING CEILING

TYPES OR WALLS AS SHOWN ON THE PLANS. ALL LED SHALL BE 4000K, CRI 80, UNLESS NOTED OTHERWISE, AND FURNISHED AND INSTALLED BY THIS

CONTRACTOR.

GENERAL NOTES: a. ELECTRICAL CONTRACTOR TO PROVIDE ALL NECESSARY MOUNTING HARDWARE AND LABOR FOR ALL FIXTURES. b. ELECTRICAL CONTRACTOR TO PROVIDE ALL WIRING, CABLING, AND ACCESSORIES AS REQUIRED FOR PROPER FUNCTIONALITY OF FIXTURES UTILIZING OCCUPANCY CONTROL SYSTEM AND/OR DIMMING PER MANUFACTURER'S

INSTRUCTIONS.

c. ALL LAY IN CEILING GRID FIXTURES SHALL BE FOR USE WITH STANDARD 15/16" GRID SYSTEM. d. FINISH SHALL BE SELECTED BY THE ARCHITECT.

EXIT SIGN & EMERGENCY LIGHTING SCHEDULE									
SYMBOL	TAG	DESCRIPTION	MOUNTING	LAMPS	VOLTAGE	MANUFACTURER & CATALOG NUMBER	ALTERNATIVE MANUFACTURER	NOTES	
	EXI	SELF POWERED EMERGENCY EXIT SIGN, SINGLE FACE, DIE CAST ALUMINUM HOUSING WITH WHITE FINISH AND RED LETTERS, FIELD KNOCKOUT ARROWS AS REQUIRED	WALL	LED	UNV	LITHONIA LQC-W-R-ELN	HE WILLIAMS LCA, PHILIPS ER46L		
⊗ ⊗	EX2	SELF POWERED EMERGENCY EXIT SIGN, SINGLE FACE, DIE CAST ALUMINUM HOUSING WITH WHITE FINISH AND RED LETTERS, FIELD KNOCKOUT ARROWS AS REQUIRED	TOP OR END MOUNT	LED	UNV	LITHONIA LQC-W-R-ELN	HE WILLIAMS EXIT/CA, PHILIPS ER4GL		
NOTES: I. CONNECT ALL EXIT SIGNS TO LOCAL UNSWITCHED LIGHTING CIRCUIT. 2. CONNECT ALL BATTERY LIGHT FIXTURES TO LOCAL UNSWITCHED NORMAL LIGHTING CIRCUIT. GENERAL NOTES: a. ELECTRICAL CONTRACTOR TO PROVIDE ALL NECESSARY MOUNTING HARDWARE AND LABOR FOR ALL FIXTURES.									

OCCUPANCY SENSOR NOTES:

a. CONTRACTOR IS RESPONSIBLE FOR ENGAGING A MANUFACTURER FOR STARTUP PROGRAMMING. b. ALL SENSOR LOCATIONS ARE APPROXIMATE, REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS PRIOR TO

INSTALLATION.

c. ULTRASONIC CEILING MOUNT SENSORS SHOULD BE LOCATED A MINIMUM OF SIX FEET FROM HVAC SUPPLY/RETURN VENTS.

d. CONTRACTOR IS RESPONSIBLE FOR: PROPER SENSITIVITY & TIME DELAY SETTINGS (FOR NON-ADAPTIVE PRODUCTS)

RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH IN RESPECT TO POWER PLACEMENT. e. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS:

- ONE POWER PACK IS REQUIRED FOR EACH CIRCUIT TO BE CONTROLLED

VOLTAGE, DUAL TECHNOLOGY

- ONE POWER PACK IS REQUIRED FOR EACH ZONE - IF MULTIPLE CIRCUITS ARE TO BE CONTROLLED BY A SENSOR, AN AUXILIARY RELAY CAN BE USED IN
- CONJUNCTION WITH THE POWER PACK. - THE MAXIMUM NUMBER OF SENSORS THAT CAN BE PUT ON A POWER PACK IS TO BE REDUCED BY ONE FOR EACH SLAVE PACK USED.
- ROOM OCCUPANCY SENSORS TO PROVIDE SIGNAL FOR HVAC MANAGEMENT. OR ALL POWER PACKS SHALL HAVE AUX HVAC RELAY.
- e. WHERE RETURN AIR PLENUM IS UTILIZED, MOUNT CONTROL UNITS WITHIN JUNCTION BOXES INSTALLED PER ALL CODE REQUIREMENTS.
- f. CONTROL WIRING BETWEEN SENSORS AND CONTROLS UNITS SHALL BE CLASS II, 18-24 AWG, STRANDED UL CLASSIFIED. WHERE RETURN AIR PLENUM IS UTILIZED, ALL CONTROL WIRING SHALL BE PLENUM-RATED.
- g. SENSORS MOUNTED OVER THE DOOR MUST BE PLACED ONE FOOT INSIDE THE THRESHOLD.
- h. SENSOR PLACEMENT ON PLANS IS APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR ENGAGING A MANUFACTURER TO PRODUCE A MOTION SENSOR LAYOUT THAT IS COMPLIANT WITH THE GOVERNING ENERGY CODE. CONTRACTOR IS RESPONSIBLE FOR ENSURING MOTION CONTROL OF ALL LOCATIONS SHOWN ON PLAN.
- I. CONTRACTOR IS RESPONSIBLE FOR INSTALLING EQUIPMENT IN COMPLIANCE WITH LOCAL CODE. I. ALL LINE VOLTAGE SENSORS AND ALL POWER PACKS SHALL HAVE AUXILIARY CONNECTIONS FOR FOR HVAC
- AUTOMATION.

k. PRODUCTS FROM SPECIFIED AND ACCEPTABLE MANUFACTURERS SHALL PROVIDE SAME LEVEL OF CONTROL AND SHALL PROVIDE AUXILIARY RELAY/CONTACTS FOR HVAC SYSTEM.

NOTE:

CONTACT KOLHER FOR NEW TRANSFER SWITCH AND FOR NEW CIRCUIT BREAKER TO BE PROVIDED INTO THE EXISTING GENERATOR. PROVIDE ALL MODIFICATIONS TO EXISTING GENERATOR TO ACCOMMODATI RENOVATIONS. PROVIDE PROGRAMMING TO INTERFACE NEW TRANSFER SWITCH INTO EXISTING EMERGENCY SYSTEM. NEW TRANSFER SWITCH SHALL BE "LIFE SAFETY" BRANCH POWER AND SHALL TAKE PRIORITY OVER EXISTING TRANSFER SWITCH

EXISTING 35KW 208Y/120V. 3PH. 4W. NATURAL GAS, GENERATOR

EXISTING 100A/3P 60A/3P (100% RATED)

GENERAL NOTES:

- 1. WORK SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND ALL LOCAL CODES. VERIFY EXACT CODE REQUIREMENTS AND LOCAL AMENDMENTS WITH LOCAL INSPECTOR PRIOR TO ANY INSTALLATION. 2
- RISER DIAGRAM IS DIAGRAMMATIC ONLY. COORDINATE EXACT ROUTING OF FEEDERS IN FIELD. PROVIDE PULLBOXES AS 3. REQUIRED PER NEC REQUIREMENTS.
- 4. REFER TO PANELBOARD SCHEDULESFOR ADDITIONAL INFORMATION.
- ALL ELECTRICAL EQUIPMENT SHOWN IS NEW UNLESS NOTED OTHERWISE.

MOUNTED EQUIPMENT.

- PROVIDE 4" HOUSEKEEPING CONCRETE PAD FOR ALL FLOOR
- DRAWING NOTES: (TYPICAL FOR THIS DRAWING ONLY.) (1) UTILIZE EXISTING SPARE 200AS. PROVIDE NEW 200AF. TO SERVE NEW ELECTRICAL LOAD. ARRANGE FUSES SO RATING INFORMATION IS READABLE WITHOUT REMOVING FUSES. NEW FUSIBLE SWITCH TO SERVE NEW ELECTRICAL PANELBOARD.
- PROVIDE NEW TWIN MOUNTED DUAL 200AS TO SERVE NEW ELECTRICAL LOADS. PROVIDE NEW 200AF. IN EACH FUSIBLE SWITCH TO SERVE NEW ELECTRICAL LOAD. PROVIDE MOUNTING BRACKETS, SUPPORTS, BUS DETAILS, FILLER PANELS AND ALL ACCESSORIES AS REQUIRED FOR OVERCURRENT PROTECTIVE DEVICE AND AMPERE RATING INDICATED. ARRANGE FUSES SO RATING INFORMATION IS READABLE WITHOUT REMOVING FUSES. NEW FUSIBLE SWITCH TO SERVE NEW ELECTRICAL PANELBOARD.
- PROVIDE NEW TWIN MOUNTED DUAL 100AS TO SERVE NEW ELECTRICAL LOADS. PROVIDE NEW 60AF. IN ONE FUSIBLE SWITCH TO SERVE NEW ELECTRICAL LOAD AND SECONDFUSIBLE SWITHC TO BE "SPARE". PROVIDE MOUNTING BRACKETS, SUPPORTS, BUS DETAILS, FILLER PANELS AND ALL ACCESSORIES AS REQUIRED FOR OVERCURRENT PROTECTIVE DEVICE AND AMPERE RATING INDICATED. ARRANGE FUSES SO RATING INFORMATION IS READABLE WITHOUT REMOVING FUSES. NEW FUSIBLE SWITCH TO SERVE NEW ELECTRICAL PANELBOARD.
- PROVIDE NEW 60A./3P CIRCUIT BREAKER IN EXISTING GENERATOR. PROVIDE MOUNTING BRACKETS, SUPPORTS, BUS DETAILS, FILLER PANELS AND ALL ACCESSORIES AS REQUIRED FOR OVERCURRENT PROTECTIVE DEVICE AND AMPERE RATING INDICATED.
-) EXISTING NIGHT LIGHT AND EXIT SIGN CIRCUITS SHALL BE INTERCEPTED AND RE-ROUTED TO NEW EMERGENCY "LIFE SAFETY" BRANCH PANEL. CONTRACTOR SHALL RELOCATE EXISTING JUNCTION BOXES, EXTEND CONDUIT AND WIRING AS REQUIRED TO ACCOMMODATE THE RENOVATIONS. FIELD VERIFY EXISTING CONDITIONS.

EXISTING 1600A, 208Y/120V. MAIN SERVICE SWITCHBOARD (MSWBD-1) TO REMAIN.

PARTIAL ELECTRICAL RISER DIAGRAM

GENERAL NOTES - FIRE PROTECTION: GENERAL

- 1.1 SYSTEM TO PROVIDE COVERAGE FOR BUILDING AREAS NOTED. SYSTEMS SHALL CONFORM TO THE DESIGN CRITERIA REQUIRED BY NFPA-13 AND THE LOCAL AUTHORITY HAVING JURISDICTION. WORKING PLANS AND CALCULATIONS SHALL BE SUBMITTED TO LOCAL APPROVAL AGENCIES AND TO OWNERS FIRE PROTECTION CONSULTANT FOR APPROVAL.
- 1.2 ALL WORK SHALL BE INSTALLED AND ALL MATERIALS SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS OF NFPA-13, 2010 EDITION AND ALL LOCAL AMENDMENTS.
- 1.3 CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND THEIR ASSOCIATED FEES.
- 1.4 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL INSPECTIONS WITH THE LOCAL AUTHORITY HAVING JURISDICTION.
- 1.5 DRAWINGS ARE GENERALLY DIAGRAMMATIC. ROUTING OF PIPING, ETC., AS SHOWN ON DRAWINGS, DOES NOT INTEND TO SHOW EVERY RISE, DROP, OFFSET, FITTING NOR EVERY STRUCTURAL ELEMENT THAT MAY BE ENCOUNTERED DURING THE INSTALLATION OF THIS WORK. CONTRACTOR SHALL MAKE ANY REQUIRED CHANGES FROM THE GENERAL ROUTING SHOWN ON THESE DRAWINGS, SUCH AS OFFSETS, BENDS OR CHANGES IN ELEVATION DUE TO COORDINATION WITH THE WORK OF OTHER TRADES AND BUILDING CONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY IN COMPLETION DATE OF THE PROJECT.
- 1.6 ALL EXISTING PIPING INFORMATION SHOWN ON THIS DRAWING HAS BEEN OBTAINED FROM OWNER'S EXISTING CONSTRUCTION DOCUMENTS AND LIMITED FIELD SURVEY. EXACT LOCATION OF EXISTING SPRINKLER SYSTEM COMPONENTS SHALL BE FIELD VERIFIED BEFORE STARTING INSTALLATION.
- 1.7 THE CONTRACTOR SHALL BE RESPONSIBLE DURING THE INSTALLATION AND TESTING PERIODS OF THE FIRE SPRINKLER SYSTEM WORK, FOR ANY MATERIAL DAMAGE TO THE WORK OF THE OWNER OR OTHERS, AND TO THE PROPERTY AND MATERIALS OF THE OWNER OR OTHERS, INCLUDING CEILING SPRINKLER TILES, AND INCLUDING DAMAGE CAUSED BY GREASE, OIL, OR LEAKS IN SPRINKLER EQUIPMENT, FITTINGS, OR BY DISCONNECTED PIPES.
- SHOP DRAWINGS, SUBMITTALS AND CLOSEOUT DOCUMENTS 2.1 SHOP DRAWINGS: PROVIDE A MINIMUM 1/8"=1'-0" SCALE LAYOUT IN ALL AREAS INDICATING SPRINKLER LOCATIONS COORDINATED WITH CEILING INSTALLATION. INDICATE HYDRAULIC CALCULATIONS REFERENCE POINTS, DETAILED PIPE LAYOUT INCLUDING PIPE SIZE, LENGTH, AND ELEVATION, HANGERS AND SUPPORTS, SPRINKLERS, COMPONENTS AND ACCESSORIES. INDICATE SYSTEM CONTROL VALVE, DRAIN VALVE, AUXILIARY DRAIN VALVE, AND INSPECTOR'S TEST LOCATIONS. INDICATE PIPE MATERIALS USED, JOINTING METHODS, SUPPORTS, FLOOR AND WALL PENETRATION SEALS AND REFERENCE ALL REQUIRED CODES. INDICATE SUPPORT DETAILS, REMOTE AREAS IDENTIFIED, SPRINKLER HEAD SUMMARY AND SITE PLAN OF WATER MAIN TO STREET CONNECTION. SUBMIT HYDRAULIC CALCULATIONS FOR EACH ZONE, OCCUPANCY TYPE, HAZARD TYPE, ETC.
- 2.2 PRODUCT DATA: SUBMIT DATA ON SPRINKLERS AND SPECIALTIES, INCLUDING HEADS, PIPING, VALVES, PIPE HANGERS, MANUFACTURERS CATALOG INFORMATION. SUBMIT PERFORMANCE RATINGS, ROUGH-IN DETAILS, SUPPORT REQUIREMENTS, AND PIPING CONNECTIONS.
- 2.3 PROJECT RECORD DOCUMENTS: PROVIDE UPDATED VERSION OF MINIMUM $1/8^{"} = 1^{!}-0^{"}$ SCALE COORDINATION SHOP DRAWINGS INDICATING ACTUAL LOCATIONS OF VALVES, PIPING ABOVE AND BELOW GRADE, SPRINKLER HEADS, AUXILIARY DRAINS, FIRE DEPARTMENT CONNECTIONS, INSPECTORS TEST CONNECTIONS, PUMPS, BACKFLOW PREVENTERS, AND ALL OTHER EQUIPMENT INSTALLED BY THIS CONTRACTOR.
- PIPE HANGERS AND SUPPORTS 3.1 ALL FIRE PROTECTION PIPING SHALL BE SUSPENDED WITH APPROVED/LISTED PIPE HANGERS IN COMPLIANCE WITH NFPA STANDARDS. CUTTING STRUCTURAL MEMBERS TO RUN PIPING. OR TO FACILITATE HANGER FASTENING IS NOT PERMITTED.
- 3.2 VERTICAL ATTACHMENT TO METAL DECK AND WOOD TRUSS'S SHALL NOT BE PERMITTED. HORIZONTAL ATTACHMENT TO WOOD TRUSS SHALL BE MADE BY HORIZONTAL SUPPORT TO BOTTOM CORD OF TRUSS.

SPRINKLER SYSTEM COMPONENTS AND ACCESSORIES

- 4.1 FIRE PROTECTION SYSTEM SHALL INCLUDE ALL ITEMS FOR A COMPLETE SYSTEM. SPECIFICALLY THIS IS TO INCLUDE BUT NOT LIMITED TO: PIPE SUPPORTS, VALVES, GAUGES, TRIM, ALARMS, SPECIALTY DEVICES, CONTROLS, AND ITEMS INCIDENTAL TO A COMPLETE SYSTEM.
- 4.2 EACH INSPECTOR'S TEST CONNECTION SHALL HAVE AN INSPECTOR'S TEST CONNECTION SIGN ATTACHED THERETO.
- 4.3 A FLOW DATA PLACARD SHALL BE PROVIDED FOR EACH HYDRAULICALLY CALCULATED REMOTE AREA. PLACARDS SHALL BE PROVIDED ON EACH SYSTEM RISER. FLOW DATA SHALL BE PROFESSIONALLY PRINTED WITH PERMANENT MEANS. HAND WRITTEN WITH PERMANENT MARKER ON LABEL SHALL NOT BE PERMITTED.
- 4.4 INSPECTORS TEST DRAIN AND MAIN DRAIN SHALL BE ROUTED THRU THE EXTERIOR WALL AND SPILL TO GRADE. IN CONDITIONS WHERE THIS IS NOT POSSIBLE, INSPECTORS TEST AND MAIN DRAIN SHALL BE ROUTED TO AN APPROVED INTERIOR OPEN SITE DRAIN AS APPROVED ARCHITECT AND ENGINEER.
- 4.5 AUXILIARY DRAINS AND SIGNS SHALL BE PROVIDED AT THE LOW POINT OF EACH TRAPPED SECTION OF PIPING AND IDENTIFYING SIGNS SHALL BE ATTACHED THERETO. INSTALL ALL AUXILIARY DRAIN VALVES IN ACCESSIBLE AREAS. FIELD COORDINATE LOCATIONS WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
- 4.6 THE INTERCONNECTION OF THE ALARM SUPERVISORY SIGNALS MUST BE APPROVED BY THE PROPER ALARM REPRESENTATIVE, AND WORKING PLANS INDICATING THE LOCATIONS OF ALL ELECTRICAL COMPONENTS SHALL BE FURNISHED TO THE FIRE ALARM CONTRACTOR.
- 4.7 CONTRACTOR SHALL PROVIDE ALL MEANS TO SHUT-DOWN EXISTING PIPING SYSTEMS WHERE REQUIRED TO COMPLETE WORK UNDER THIS CONTRACT. CONTRACTOR SHALL PROVIDE ALL NECESSARY VALVES TO ISOLATE RENOVATED SECTIONS OF THE BUILDING WITHOUT DISTURBING SECTIONS OF THE BUILDING NOT UNDER RENOVATION.
- 4.8 PROVIDE ACCESS TO ALL VALVES AND SYSTEM COMPONENTS REQUIRING ACCESS. ALL PIPING ACCESSORIES AND EQUIPMENT SUCH AS VALVES SHALL BE INSTALLED AT A REASONABLE HEIGHT AND POSITION IN ORDER TO FACILITATE MAINTENANCE.

FIRE PROTECTION (SPRINKLER) PIPING

- 5.1 MINIMUM PIPE SIZE SHALL BE I INCH. ANY REDUCING OF SIZE SHALL OCCUR AT SPRINKLER HEAD CONNECTION.
- 5.2 SPRINKLER PIPING SHALL NOT BE INSTALLED DIRECTLY OVER ANY ELECTRICAL EQUIPMENT PANELS, TELEPHONE OR LOW VOLTAGE EQUIPMENT OR SIMILAR TYPE OF EQUIPMENT.
- 5.3 ALL PIPE AND FITTINGS SHALL BE INSTALLED IN RUST-FREE CONDITION.
- 5.4 THE USE OF THREADED BUSHINGS WILL NOT BE PERMITTED IN ANY AREA OF THIS INSTALLATION.
- 5.5 ALL PIPING AND COMPONENTS NECESSARY FOR INSTALLATION MAY BE PREFABRICATED. HOWEVER, THE CONTRACTOR MUST BE WILLING TO REWORK THE PREFABRICATED PIPE, FITTINGS, AND THE LIKE, AS NECESSARY TO CONSTITUTE A PROPER APPROVED INSTALLATION, EXISTING SITE CONDITIONS NOTWITHSTANDING, AT NO ADDITIONAL COST TO THE OWNER.
- 5.6 ALL PIPING SHALL BE HYDROSTATICALLY TESTED @ 200 PSI FOR NO LESS THAN 2 HOURS. THE FIRE DEPARTMENT SHALL BE NOTIFIED (NO LESS THAN 48 HOURS PRIOR) OF THE DATE AND TIME OF THE TEST AND MAY WITNESS IT IF SO DESIRED OR REQUIRED.
- 5.7 ALL PIPING PASSING THRU' FLOOR CONSTRUCTION SHALL HAVE A SCHEDULE 40 STEEL PIPE SLEEVE INSTALLED AROUND PIPE ONLY. ALL PIPE PASSING THRU WALLS SHALL HAVE A GALVANIZED SHEET METAL OR SCHEDULE 40 STEEL PIPE SLEEVE INSTALLED AROUND THE PIPE. ALL EXPOSED PIPE WHICH PASSES THROUGH A WALL OR CEILING SHALL BE EQUIPPED WITH AN ESCUTCHEON PLATE.
- 5.8 ALL PIPING SHALL BE INSTALLED TO ALLOW FOR PROPER DRAINING OF ENTIRE SYSTEM PER NFPA-13.
- 5.9 SCREWED UNIONS SHALL NOT BE PERMITTED ON PIPING LARGER THAN I INCHES.
- 5.10 ALL NEW CONNECTIONS MADE TO AN EXISTING SYSTEM MAIN SHALL BE ACCOMPLISHED WITH A CUT-IN OR TEE FITTING OF EQUAL SIZE TO THAT OF THE EXISTING MAIN.
- 5.11 FIRE PROTECTION PIPING SHALL BE AS FOLLOWS: A. (1"-2") STEEL PIPE: ASTM A795; SCHEDULE 40, BLACK STEEL FITTINGS: ASME BIG.5, STEEL FLANGES AND FITTINGS. CAST IRON FITTINGS: ASME 16.1, FLANGES AND FLANGED FITTINGS; OR ASME BI6.4, THREADED FITTINGS. MALLEABLE IRON FITTINGS: ASME BI6.3, THREADED FITTINGS.
- B. (2 1/2"-6") STEEL PIPE: ASTM A135, SCHEDULE 10, BLACK. STEEL FITTINGS: ASME BIG.5, STEEL FLANGES AND FITTINGS. GROOVED END FITTINGS: ASTM A536 DUCTILE IRON HOUSING TO ENGAGE AND LOCK. MECHANICAL GROOVED COUPLINGS: VICTAULIC #009N OR GRUVLOK #7401 GROOVED COUPLINGS - DUCTILE IRON HOUSING CLAMPS TO ENGAGE AND LOCK, "C" SHAPED ELASTOMERIC SEALING GASKET, STEEL BOLTS, NUTS, AND WASHERS.
- C. DRY SYSTEM COUPLINGS ALL GROOVED COUPLINGS IN DRY SPRINKLER SYSTEMS SHALL BE VICTAULIC #009N OR GRUVLOK #7401 GROOVED COUPLINGS WITH EPDM FLUSH SEAL GASKETS.

PIPE AND VALVE IDENTIFICATION

6.1 PROVIDE PIPE LABELING IDENTIFICATION PER ASME AI3.1. SEE DETAIL FOR ADDITIONAL INFORMATION. PIPE LABELS SHALL BE WRAP AROUND TYPE. SELF ADHESIVE TYPE SHALL NOT BE PERMITTED.

FIRE STOP SYSTEMS

7.1 GENERAL PURPOSE FIRE STOPPING SEALANT SHALL BE DOW CORNING, NELSON OR 3M COMPANY; WATER BASED, NON SLUMPING, PREMIXED SEALANT WITH INTUMESCENT PROPERTIES, RATED FOR 3 HOURS PER ASTM E814, NEPA AND UL-1479. FILL ALL VOIDS AROUND ALL PIPING PENETRATIONS THROUGH WALL'S AND CEILINGS WITH A MINIMUM I HOUR FIRE RATING. PROVIDE PVC COLLAR ASSEMBLY AT ALL PVC PIPING PENETRATIONS THROUGH FIRE WALLS, FLOORS OR CEILING WHERE REQUIRED BY LOCAL FIRE DISTRICT.

UNDERFLOOR PIPING AND FLOOR SAW CUTTING NOTES:

2. ALL EXISTING PIPING INFORMATION SHOWN ON THIS DRAWING HAS BEEN OBTAINED FROM OWNER'S EXISTING CONSTRUCTION DOCUMENTS AND LIMITED FIELD SURVEY. EXACT LOCATION OF EXISTING UNDERGROUND SANITARY, VENT STORM PIPING ALL PIPE SIZES SHALL BE FIELD VERIFIED BEFORE STARTING INSTALLATION. FOR UNDERGROUND PIPING, CONTRACTOR SHALL FIELD VERIFY EXISTING PIPE LOCATIONS, CONNECTION LOCATION, SIZE, DIRECTION OF FLOW, AND DEPTH VIA PIPE LOCATING/TELEVISING EQUIPMENT PRIOR TO SAW CUTTING OF FLOÓR OR BEGINNING WORK.

3. WHEN SAW CUTTING THE FLOOR, CONTRACTOR SHALL USE CAUTION TO PREVENT CUTTING OF ANY UNDERFLOOR UTILITIES. CONTRACTOR SHALL VERIFY ALL EXISTING UNDERFLOOR UTILITIES PRIOR TO CUTTING OF FLOOR VIA X-RAY FLOOR SCANNING EQUIPMENT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR ANY DAMAGES TO THE EXISTING UNDERFLOOR UTILITIES OCCURRED DURING CONSTRUCTION AT NO COST TO THE OWNER.

4. DRILL AND DOWEL EXISTING CONCRETE FOR #4 ROD AT 16" O.C.. #4 ROD TO BE 12" LONG WITH 6" PROJECTION INTO EXISTING CONCRETE. REPLACE WITH 5" FC 4,000 PSI AT 28 DAYS WITH BARRIER ONE ADMIXTURE CONCRETE SLAB INFILL WITH ONE LAYER 6X6-8/8 WWF I" CLR TO TOP ON 30 MIL. VAPOR BARRIER OVER COMPACTED GRANULAR FILL - TYPICAL. (FIELD VERIFY EXISTING SLAB THICKNESS) EXERCISE CARE SO AS NOT TO UNDERMINE OR DISTURB BUILDING FOUNDATIONS OR REMAINING SLAB ON GRADE. SLOPE EXCAVATIONS AS REQUIRED TO GRADUALLY REACH THE ELEVATIONS.

DRAWING NOTES

- FOR ADDITIONAL INFORMATION.
- (3) RPZ LOCATED WITHIN 5'-0" OF FLOOR, COORDINATE LOCATION WITH MECHANICAL EQUIPMENT, DUCTWORK AND MECH CONTR.
- (4) PIPE DRAIN FROM RPZ TO FLOOR DRAIN, SECURE PIPING TO FLOOR.
- 5 MAKE NEW CONNECTION TO EXISTING VENT RISER AND VTR.
- 6 2"V UP ALONG WALL, COORDINATE LOCATION WITH MECHANICAL EQUIPMENT, DUCTWORK AND MECH CONTR.

I. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR FLOOR CUTTING AND PATCHING OF EXISTING FLOOR TO ACCOMMODATE DEMOLITION AND NEW UNDERGROUND PIPING SHOWN UNDER EXISTING FLOORS.

1 EXISTING PLUMBING FIXTURE, PIPING, ETC. TO REMAIN.

2 SAW CUT AND PATCH EXISTING FLOOR AS REQUIRED TO ACCOMMODATE NEW UNDERGROUND PIPING AS SHOWN. REFER TO "UNDERFLOOR PIPING AND FLOOR SAW CUTTING NOTES" THIS SHEET

1.1	ALL WORK SHALL BE INSTALLED AND ALL WITH ALL APPLICABLE RULES AND REGUL HEALTH ILLINOIS PLUMBING CODE 2014 ED AND ALL LOCAL AMENDMENTS TO THE PL	L MATERIALS SHALL BE IN STRICT ACCORDANCE ATIONS OF ILLINOIS DEPARTMENT OF PUBLIC DITION, INTERNATIONAL PLUMBING CODE 2012 EDITION LUMBING CODE.	2.2 PATCH AND AS DOMEST	and r Socia Fic coi
1.2	IT SHALL BE THE CONTRACTORS RESPON WITH THE ILLINOIS DEPARTMENT OF PUBL THE LOCAL PLUMBING INSPECTOR HAVING	SIBILITY TO COORDINATE ALL INSPECTIONS LIC HEALTH STATE PLUMBING INSPECTORS AND JURISDICTION.	PIPE HANG 3.1 ALL SA WITH CL RETURN DFTAII	IERS NITARI LEVIS / PIPIN ON MF
1.3	EXACT LOCATION OF PLUMBING FIXTURES ARCHITECTURAL DRAWINGS, ACTUAL BUIL AND EQUIPMENT SHOP DRAWINGS PRIOR	AND DEVICES SHALL BE VERIFIED WITH .DING WALLS, FLOORS AND CEILING, CABINETRY TO STARTING ANY WORK.	SWIVEL INSULAT PREVEN	Joint Ted. H T Cor
1.4	DRAWINGS ARE GENERALLY DIAGRAMMAT DRAWINGS, DOES NOT INTEND TO SHOW I STRUCTURAL ELEMENT THAT MAY BE EN WORK. CONTRACTOR SHALL MAKE ANY F SHOWN ON THESE DRAWINGS, SUCH AS O	IC. ROUTING OF PIPING, ETC., AS SHOWN ON EVERY RISE, DROP, OFFSET, FITTING NOR EVERY COUNTERED DURING THE INSTALLATION OF THIS REQUIRED CHANGES FROM THE GENERAL ROUTING FFSETS, BENDS OR CHANGES IN ELEVATION DUE TO	3.2 WHEN W TRAPEZ WITH A COUPLIN	IATER IE HAN ITACHI IG WIT
	COORDINATION WITH THE WORK OF OTHER CHANGES SHALL BE MADE WITHOUT ADDI COMPLETION DATE OF THE PROJECT.	R TRADES AND BUILDING CONSTRUCTION. ALL TIONAL COST TO THE OWNER OR DELAY IN	BOTTON	NTAL A 1 CORE
1.5	ALL VENT AND WASTE PIPING SIZES ARE AND/OR PIPE SIZE INCREASED AS REQUIR REGULATIONS, ETC. WITHOUT ADDITIONAL	MINIMUM. ADDITIONAL VENTS SHALL BE ADDED RED BY APPLICABLE CODES, STATUTES AND . COST TO THE OWNER.	3.4 HANGER <u>PIPE</u> CAS	SPAC
1.6 1.7	STERILIZATION: ALL NEW, ALTERED OR DISINFECTED, STERILIZED AND FLUSHED	REPAIRED POTABLE WATER PIPING SHALL BE PER THE REQUIREMENTS OF THE ILLINOIS STATE	IO F COP COP	00t L PER T PER T
	PLUMBING CODE 2014 EDITION, SECTIONS STERILIZE AND FLUSH ALL WATER PIPING RETURN AND ALL DOMESTIC COLD WATER ALL TEMPORARY TAPPINGS, VALVE OPEN STERILIZE AND FLUSH THE WATER SUPPL COMPLETED UNTIL SATISFACTORY BACTE	890.1180(a) AND 890.1180(b)(3). CONTRACTOR SHALL INCLUDING ALL DOMESTIC HOT WATER SUPPLY AND R PIPING. CONTRACTOR SHALL FURNISH AND INSTALL INGS, DRAIN FITTINGS, ETC. AS REQUIRED TO Y PIPING. DISINFECTING SHALL NOT BE DEEMED RIQLOGICAL ANALYSIS REPORTS ARE RECEIVED FOR	PIPE AND 4.1 PROVID INFORM	Valv E pipe Ati <i>o</i> n.
1.8	SAMPLES OF WATER COLLECTED AND TES PLUMBING CONTRACTOR. PLUMBING CONTRACTOR SHALL COORDINA	TE THE INSTALLATION OF PVC PIPING WITH THE	5.1 PLUMBII 890.1190 SUPPLY	NG CO VAL TO A
1.9	MECHANICAL SYSTEMS. PVC PIPING SHAI PROVIDER AIR CHAMBERS ON WATER SUF	LL NOT BE USED IN PLENUM CEILINGS. PLY PIPING AT EACH FIXTURE PER ILLINOIS PLUMBING RESTORS MIFAR MULL SERIES OF APPROVED FOUND	5.2 INSTALL LARGER	BALL
	WATER HAMMER ARRESTORS SHALL BE IN AND EASY REPLACEMENT. LOCATIONS, S CONTRACTOR. LOCATIONS IN PLUMBING O ACCESS PANEL LOCATIONS SHELL BE COO	NSTALLED IN AN ACCESSIBLE LOCATION FOR SERVICE DIZE AND QUANTITIES SHALL BE DETERMINED BY CHASE SHALL REQUIRE AN ACCESS PANEL AND ALL DRDINATED AND APPROVED BY ARCHITECT/OWNER.	DRAWIN 5.3 BALL V LEAD FI SEATS	gs. Alves Ree n And s
1.10	ALL EXISTING PIPING INFORMATION SHOWN OWNER'S EXISTING CONSTRUCTION DOCUME OF EXISTING SANITARY/STORM LINES, WA SHALL BE FIELD VERIFIED BEFORE START	I ON THIS DRAWING HAS BEEN OBTAINED FROM ENTS AND LIMITED FIELD SURVEY. EXACT LOCATION TER LINES, VENT LINES, VALVES AND ALL PIPE SIZES FING INSTALLATION.	MANUFA 5.4 CHECK LEAD FI	-110. CTURI VALVE REE N
1.11	PLUMBING CONTRACTOR SHALL PROVIDE S PLUMBING PER ILLINOIS PLUMBING CODE.	STACK TEST ON ALL ROUGH AND UNDERGROUND	CONFOR 5.5 STRAINI CERTIFI	m to ERS S ED, B
1.12	PLUMBING CONTRACTOR SHALL PROVIDE I AND VENT PIPING PER ILLINOIS PLUMBING PLUMBING CONTRACTOR SHALL PROVIDE I	PRESSURE TEST ON ALL ABOVE GROUND SANITARY CODE.	BLOW D 5.6 CIRCUIT NEXUS;	OWN \ SETT LEAD
1.14	WATER PIPING AT TIME OF ROUGH INSPECT	WATER SUPPLY PIPING SHALL NOT BE PERMITTED.	PRECISI GASKET	ON MA ED CA
115	DEAD END PIPING BEYOND 10 FEET OF NE PERMITTED PER I.D.P.H. SECTION 890.1320 THERMOSTATIC MIXING VALVES SERVING	EAREST VENTED SANITARY PIPING WILL NOT BE D. LAVATORIES AND SINKS USED FOR HAND WASHING	5.8 INSTALL	. VAL
1.16	SHALL BE SET TO A MAXIMUM 110 DEGRE ALL FLOOR DRAINS SHALL BE PROTECTED	ES. D TO PREVENT THE LOSS OF THE TRAP SEAL BY	5.9 PROVIDI ACCESS INSTALL	e acc Ories .ed a ⁻
1.17	EVAPORATION. APPROVED METHODS SHA ALL BACKFLOW PREVENTERS SHALL BE L	ILL BE PER I.D.P.H. SECTION 890.420(f). INE SIZED.	WATER SH 6.1 CONTRA REQUIR	I UT-D ACTOR ED TC
1.18	ALL REDUCED PRESSURE ZONE (RPZ) AS AND APPROVED BY A CROSS CONNECTION OPERATION AND TESTED ANNUALLY THER BACKFLOW PREVENTER IN A WEATHER PR	SEMBLY BACKFLOW PREVENTERS SHALL BE TESTED I CONTROL DEVICE INSPECTOR (CCCDI) BEFORE INITIAL EAFTER. CERTIFICATION SHALL BE POSTED AT COOF SLEEVE.	NECESS SECTIO MEANS OR MAK ANY WA WATER	ARY NS OF TO D KE NEI ATER IN PII
2.1	ALL DOMESTIC COLD WATER AND DOMES' INSULATED WITH ASTM C547 FIBERGLASS JACKET COMPLETE WITH PVC FITTING CO WITH I" THICK INSULATION. ALL DOMEST SHALL BE INSULATED WITH I" INSULATION AND LARGER SHALL BE INSULATED WITH WATER SUPPLY PIPING TO THE FIXTURE CEILINGS, PLUMBING CHASES AND WALLS.	TIC HOT WATER SUPPLY/RETURN PIPING SHALL BE PIPE INSULATION WITH ASTM CII36 VAPOR BARRIER VERS. ALL COLD WATER PIPING SHALL BE INSULATED IC HOT WATER AND RECIRC PIPING I 1/4" AND SMALLER I. ALL DOMESTIC HOT WATER AND RECIRC PIPING I 1/2" I 1/2" THICK INSULATION. INSULATE ALL DOMESTIC CONNECTION. INSULATE ALL WATER SUPPLY PIPING IN	Hose V Fire Stof 7.1 provid At Wal Dow CC With IN Fill Al Minimur Penetr Distric	ALVES SYS E FIRI LS, F DRNING ITUME: L VOI 1 HC ATION CT.
	CW	- DOMESTIC COLD WATER	<u>PLU</u>	MB
	——————————————————————————————————————	- DOMESTIC HOT WATER	<u> </u>	
	— – – – — HWC — – – – –	- DOMESTIC HOT WATER CIRCULATING -		
		UNDERGROUND SANITARY SEWER -		
	SA	EXISTING UNDERGROUND SANITARY SEWER	~	
	V	- SUSPENDED VENT PIPING		
	v	(DEMOLITION DRAWING ONLY)		
	 	(DEMOLITION DRAWING ONLY) —	, T	
	×	- GATE VALVE -		~
				Ø
		UALL VALVE		E

NISH ALL DAMAGED INSULATED SURFACES OF ALL EXISTING PLUMBING PIPING FITTINGS WHERE NEW CONNECTIONS ARE MADE. INCLUDING BUT NOT LIMITED WATER, HOT WATER SUPPLY/RETURN AND WASTE.

SUPPORTS

'ENT, STORM, DOMESTIC SUPPLY AND RETURN PIPING SHALL BE SUSPENDED /OR TRAPEZE PIPE HANGERS. ALL HORIZONTAL STORM, DOMESTIC SUPPLY AND HALL BE INSULATED AND REST ON SHEET METAL INSULATION SHIELDS. SEE NICAL/ELECTRICAL COORDINATION DRAWINGS FOR ADDITIONAL INFORMATION, NGERS MAY BE USED ONLY ON WASTE AND VENT PIPING WHEN PIPING IS NOT GER MATERIAL SHALL BE OF COMPATIBLE MATERIAL TO PIPING MATERIAL TO ION. HANGERS SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS ONLY.

PLY PIPING IS INSTALLED IN PARALLEL AND SAME ELEVATION, PROVIDE 5. PIPING SHALL REST ON SHEET METAL SHIELD AT EACH TRAPEZE HANGER TO STEEL CHANNEL EVERY 30 FEET UTILIZING A STRUT MOUNTED INSULATION TRUT CLAMP FOR USE WITH COPPER PIPING AND FIBERGLASS INSULATION.

IMENT TO METAL DECK AND WOOD TRUSS'S SHALL NOT BE PERMITTED. ACHMENT TO WOOD TRUSS SHALL BE MADE BY HORIZONTAL SUPPORT TO TRUSS.

SHALL BE AS FOLLOWS.

	MAX HANGER SPACING	ROD DIAMETER
SIZES)	5 FEET	5/8"
SIZES) WITH	10 FEET	5/8 "
OF PIPE		
INCH AND SMALLER	8 FEET	1/2"
1/4 INCH AND LARGER	10 FEET	1/2"

DENTIFICATION BELING IDENTIFICATION PER ASME A13.1. SEE DETAIL FOR ADDITIONAL

ACTOR SHALL PROVIDE ALL REQUIRED ISOLATION VALVES PER I.D.P.H. SECTION SHALL BE INSTALLED TO ISOLATE ONE ROOM WITHOUT AFFECTING WATER OTHER ROOM. ONLY EXCEPTION SHALL BE DIRECT BACK-TO-BACK FIXTURES SPACES.

LVES ON PIPING 3" AND SMALLER AND OS&Y GATE VALVES ON PIPING 4" AND RISER OR BRANCH TAKEOFF FROM MAINS, RISERS AND AS INDICATED ON

ALL BE MILWAUKEE, NIBCO, STOCKHAM, APOLLO, KITZ, WATTS, OR JOMAR; I CERTIFIED, WITH BRONZE TWO PIECE BODY, STAINLESS STEEL BALL, TEFLON FING BOX RING, LEVER HANDLE, SOLDER ENDS, FULL PORT AND CONFORM TO IN PRESS FITTINGS ARE USED, VIEGA OR NIBCO SHALL BE AN ACCEPTABLE F BALL VALVES.

HALL BE MILWAUKEE, NIBCO, STOCKHAM, APOLLO, KITZ, WATTS, OR JOMAR; I CERTIFIED WITH BRONZE BODY, BRONZE HORIZONTAL SWING DISC AND SP-80.

BE WATTS, KECKLEY, LESLIE, WILKINS, KITZ, OR NIBCO; LEAD FREE NSF-61 ZE BODY, WITH 1/32 INCH STAINLESS STEEL PERFORATED SCREEN AND 3/4"

SHALL BE BELL & GOSSETT, NIBCO, WATTS, ARMSTRONG, ILLINOIS, HCI, E NSF-61 CERTIFIED, CALIBRATED BALL TYPE BALANCING VALVE WITH NED ORIFICE, READOUT VALVES EQUIPPED WITH INTEGRAL CHECK VALVES AND CALIBRATED, NAMEPLATE AND INDICATING POINTER.

WITH STEMS UPRIGHT OR HORIZONTAL, NOT INVERTED.

WITH CLEARANCE FOR INSTALLATION OF INSULATION AND ALLOWING ACCESS.

TO ALL VALVES AND SYSTEM COMPONENTS REQUIRING ACCESS. ALL PIPING) EQUIPMENT SUCH AS ISOLATION VALVES AND IN-LINE PUMPS SHALL BE REASONABLE HEIGHT AND POSITION IN ORDER TO FACILITATE MAINTENANCE.

ALL PROVIDE ALL MEANS TO SHUT-DOWN EXISTING PIPING SYSTEMS WHERE MPLETE WORK UNDER THIS CONTRACT. CONTRACTOR SHALL PROVIDE ALL 'ES TO ISOLATE RENOVATED SECTIONS OF THE BUILDING WITHOUT DISTURBING E BUILDING NOT UNDER RENOVATION. CONTRACTOR SHALL PROVIDE ALL WATER SUPPLY PIPING WHERE REQUIRED TO MODIFY PIPING CONFIGURATION INNECTIONS TO EXISTING PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR AGE CAUSED BY DRAINING OF WATER SUPPLY PIPING. UPON REACTIVATION OF CONTRACTOR SHALL OPERATE ALL ASSOCIATED FAUCETS, FLUSH VALVES, LUMBING FIXTURES AND REMOVE ALL REMAINING AIR IN THE SYSTEM.

TED SEALANT AROUND ALL NEW PENETRATIONS FOR PIPING, CONDUIT, ETC. RS AND CEILINGS. GENERAL PURPOSE FIRE STOPPING SEALANT SHALL BE ELSON OR 3M COMPANY; WATER BASED, NON SLUMPING, PREMIXED SEALANT IT PROPERTIES, RATED FOR 3 HOURS PER ASTM E814, NFPA AND UL-1479. AROUND ALL PIPING PENETRATIONS THROUGH WALLS AND CEILINGS WITH A FIRE RATING. PROVIDE PVC COLLAR ASSEMBLY AT ALL PVC PIPING HROUGH FIRE WALLS, FLOORS OR CEILING WHERE REQUIRED BY LOCAL FIRE

<u>g sy</u>

PIPE ROUTING AND REPLACEMENT

- 8.1 PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR DISMANTLING THE EXISTING SUSPENDED ACOUSTICAL CEILING TILE SYSTEM AND REINSTALLING CEILING AS REQUIRED TO ACCOMMODATE THE INSTALLATION OF NEW PIPING.
- 8.2 PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE CAUSED TO SUSPENDED CEILING MATERIALS BY THE DISMANTLING, STORAGE AND REINSTALLATION OF CEILING MATERIALS.
- 8.3 PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING THROUGH WALLS, PIPE HANGERS AND MODIFICATIONS TO STRUCTURE FOR THE INSTALLATION OF PIPE HANGERS.
- 8.4 PIPE SIZES INDICATED ON DRAWINGS ARE MINIMUMS. CONTRACTOR SHALL MATCH PIPE SIZE WHEN CONNECTING TO EXISTING PIPING LARGER THAN SIZED LISTED.
- 8.5 NEW PIPING SHALL NOT BE PERMITTED OVER ANY ELECTRICAL PANELS OR EQUIPMENT.
- 8.6 NEW PIPE ROUTING SHALL NOT INTERFERE WITH NORMAL MAINTENANCE OPERATION OF EXISTING EQUIPMENT, ACCESS PANELS, DUCTWORK ACCESS PANELS, DUCTWORK ACCESSORIES, AND ALL HVAC AND ELECTRICAL EQUIPMENT.
- 8.7 ALL PIPING, FITTINGS AND JOINTS SHALL COMPLY WITH THE STATE AND LOCAL AMENDMENTS AND THE AUTHORITY HAVING JURISDICTION. MATERIALS LISTED IN THE SPECIFICATION THAT DO NOT COMPLY WITH THESE AMENDMENTS SHALL NOT BE USED IN THE BIDDING PROCESS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THESE ADOPTED AMENDMENTS.
- 8.8 WATER SUPPLY PIPING SIZES SHOWN ON DRAWING ARE BASED ON COPPER PIPING. SANITARY, VENT AND STORM PIPING SIZES SHOWN ARE BASED ON CAST IRON PIPING. INNER DIAMETERS SHALL BE REVIEWED WITH IDPH STATE PLUMBING INSPECTOR PRIOR TO INSTALLATION AND SHALL BE OF SUFFICIENT SIZE TO PROVIDE ADEQUATE FLOW AT MINIMAL PRESSURE DROP TO INSURE PLUMBING FIXTURES OPERATE TO OWNER'S SATISFACTION.

SHOP DRAWINGS, SUBMITTALS AND CLOSE OUT DOCUMENTS

- 9.1 CONTRACTOR SHALL SUBMIT ELECTRONIC COPIES IN PDF FORMAT SHOP DRAWINGS OF ALL PIPING, VALVES, PIPE HANGERS, PIPE INSULATION, MISC DEVICES, PUMPS, MIXING VALVES, PLUMBING FIXTURES, ACCESS PANELS, EQUIPMENT, TO ENGINEER FOR APPROVAL PRIOR TO ORDERING ANY ITEMS OR FABRICATING ANY DUCTWORK. SUBMITTALS SHALL BE RETURNED WITHIN TEN BUSINESS DAYS.
- 9.2 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.
- 9.3 AT COMPLETION OF PROJECT, CONTRACTOR SHALL SUBMIT PDF FORMAT OF OPERATION AND MAINTENANCE MANUALS FOR ALL WORK PROVIDED BY HIM ON PROJECT. MANUALS SHALL BE CLEARLY ORGANIZED AND CONTAIN COPIES OF APPROVED EQUIPMENT, COMPONENT BREAK-DOWN AND PARTS LISTS, MAINTENANCE/CLEANING AND TROUBLESHOOTING MANUALS, SERVICE CONTACTS CONTRACTOR AND MANUFACTURER WARRANTEES, AND "AS BUILT" FLOOR PLANS INDICATING ALL APPROVED DEVIATIONS AND REVISIONS TO BIDDING DOCUMENTS.

PIPE SPECIFICATIONS

- PLUMBING PIPING SHALL BE AS FOLLOWS: SANITARY SEWER AND VENT PIPING, BURIED WITHIN 5 FEET OF BUILDING A. CAST IRON PIPE: ASTM A74 SERVICE WEIGHT FITTINGS: CAST IRON. JOINTS: HUB-AND-SPIGOT, CISPI HSN COMPRESSION TYPE WITH ASTM C564
- NEOPRENE GASKETS OR LEAD AND OAKUM. B. PLASTIC PIPE: ASTM D2665, POLYVINYL CHLORIDE (PVC) MATERIAL.
- FITTINGS: PVC, ASTM D2665. JOINTS: ASTM D2855 SOLVENT WELD WITH ASTM D2564 SOLVENT CEMENT.
- SANITARY AND VENT PIPING, ABOVE GRADE

- A. CAST IRON PIPE: CISPI 301, HUBLESS, SERVICE WEIGHT. FITTINGS: CAST IRON. JOINTS: CISPI 310, NEOPRENE GASKETS AND STAINLESS STEEL CLAMP AND SHIELD ASSEMBLIES.
- B. PLASTIC PIPE: ASTM D2665, POLYVINYL CHLORIDE (PVC) MATERIAL. FITTINGS: PVC, ASTM D2665. JOINTS: ASTM D2855 SOLVENT WELD WITH ASTM D2564 SOLVENT CEMENT.
- WATER PIPING, ABOVE GRADE A. COPPER TUBING: ASTM B88, TYPE L, HARD DRAWN. FITTINGS: ASME BIG.18, CAST COPPER ALLOY OR ASME BIG.22, WROUGHT COPPER AND BRONZE. JOINTS: ASTM B32, SOLDER, GRADE 95TA.
- B. COPPER TUBING: ASTM B88, TYPE L, HARD DRAWN. COPPER PRESS-JOINT FITTINGS: VIEGA PROPRESS; ASME BIG.18 CAST COPPER ALLOY, ASME BI6.22 WROUGHT COPPER, ASME BI6.51 COPPER PRESS-CONNECT PRESSURE FITTINGS, EPDM O-RING AND INTEGRAL LEAK DETECTION. FITTINGS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS. ONLY MANUFACTURERS COMPATIBLE PRESS TOOLS SHALL BE USED. OTHER ACCEPTABLE MANUFACTURERS: NIBCO, MUELLER PRS STREAMLINE.

MBOLS AND ABBREVIA	TIONS	<u>S</u>		
CIRCUIT BALANCING VALVE	AFF.	ABOVE FINISHED FLOOR	HWC	HOT WATER CIRCULATING
W/BALANCING PORTS	AP	ACCESS PANEL	L	LAVATORY
DIRECTION OF FLOW	BFP	BACK FLOW PREVENTER	MB	MOP BASIN
PIPE ELBOW (TURNED UP)	CI	CAST IRON	NC	NEW CONNECTION
PIPE ELBOW (TURNED DOWN)	СО	CLEANOUT	5	SINK
PIPE TEE DOWN (DROP)	СМ	COLD WATER	SA	SANITARY
PIPE TEE UP	DWH	DOMESTIC WATER HEATER	ST	STORM
PIPE TEE UP OR ANGLE	DWP	DOMESTIC WATER PUMP	TMV	THERMOSTATIC MIXING VALVE
PIPE TEE DOWN OR ANGLE	DWET	DOMESTIC WATER EXPANSION TANK	TYP.	TYPICAL
NEW CONNECTION	FCO	FLOOR CLEANOUT	۷	VENT
FLOOR CLEANOUT (ROUND)	FD	FLOOR DRAIN	VTR	VENT THROUGH ROOF
FLOOR DRAIN (ROUND)	ΗW	HOT WATER	WC	WATER CLOSET
			WCO	WALL CLEANOUT

MIFAB, MODEL C1224

ZURN WILKINS MODEL 975XL

WATTS LF909 (S) SERIES

IRON BODY, ABS GASKETED PLUG AND ADJUSTABLE NICKEL

BACKFLOW PREVENTER WITH STRAINER AND BALL VALVES, BFP

APOLLO, WATTS,

ZURN, FEBCO

2" AND SMALLER - ASSE 1013; REDUCED PRESSURE ZONE

SHALL BE LEAD FREE AND HAVE PRESSURE DIFFERENTIAL

RELIEF VALVE LOCATED IN A ZONE BETWEEN TWO POSITIVE SEATING CHECK VALVES. SIZE AS INDICATED ON DRAWING.

BRONZE ROUND SCORIATED COVER.

<u>FCO</u>

<u>RPZ-1</u>

CLEANOUT

BACKFLOW

PREVENTER

