A. GENERAL NOTES COORDINATE PENETRATIONS AND/OR SLEEVES REQUIRED IN WALLS, FLOORS, REGARDING EXISTING CONDITIONS AND THEIR EFFECT ON THE PROPOSED WORK. CEILINGS OR ROOFS FOR MECHANICAL AND ELECTRICAL WORK REQUIRED BY CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR, ANY CONDITIONS REQUIRING ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH

BY IBC 2015 EDITION AND SHALL CONFORM TO ALL OTHER APPLICABLE MUNICIPAL, STATE, AND FEDERAL REGULATIONS INCLUDING THE ILLINOIS ACCESSIBILITY CODE

2. NOTIFY THE OWNER'S REPRESENTATIVE A MINIMUM OF 72 HOURS PRIOR TO THE

PROTECT AND KEEP IN SERVICE ACTIVE UNDERGROUND UTILITIES, PIPES, OR CONDUITS.

4. CONTRACTORS AND SUBCONTRACTORS SHALL COORDINATE THEIR WORK WITH THAT OF

5. NO WORK WILL BE PERMITTED TO BE INSTALLED WITHOUT RECIPT AND SUBSEQUENT

REVIEW OF FULL AND COMPLETE SUBMITTALS BY THE ARCHITECT/ENGINEER.

6. DO NOT SCALE DRAWINGS. DIMENSIONS INDICATED TAKE PRECEDENCE OVER SCALE.

VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD. WHERE DISCREPANCIES ARE

WHERE CONFLICTS MAY EXIST BETWEEN THE REQUIREMENTS OF PORTIONS OF THE

REQUIREMENT SHALL GOVERN. THEREFORE, BY EXECUTING A CONTRACT FOR

CONSTRUCTION, THE CONTRACTOR AGREES THAT, IF IT RAISED NO QUESTIONS

IS NOT ENTITLED TO ANY ADDITIONAL COMPENSATION TO RESOLVE THE CONFLICT.

CONSTRUCTION, THE CONTRACTOR AGREES THAT THE DRAWINGS SET FORTH THE

SEGMENT, PIECE, PART, COMPONENT OR UNIT OF A PRODUCT, SYSTEM OR SERVICE THE CONTRACTOR FURTHER AGREES THAT, AS PART OF ITS BID, IT MUST FURNISH

INSTALL EVERY LENGTH, SEGMENT, PIECE, PART, COMPONENT OR UNIT OF A PRODUC SYSTEM OR SERVICE AND, CONSEQUENTLY, THE CONTRACTOR IS NOT ENTITLED TO AN'

ADDITIONAL COMPENSATION FOR ANY LENGTH, SEGMENT, PIECE, PART COMPONENT OR

UNIT OF A PRODUCT, SYSTEM OR SERVICE BECAUSE IT IS NOT EXPRESSLY DEPICTED

DESIGN INTENT AND. THEREFORE, MAY NOT EXPRESSLY DEPICT EVERY LENGTH

CABINET ÚNIT HEATER

DIAMETER

DIMENSION

DRAWINGS

ELEVATION

ELEVATOR

EMBEDMENT

EMERGENCY

EPOXY PAINT

EACH WAY

EXISTING

EQUAL

EXPANSION JOINT

ELECTRIC/ELECTRICAL

ELECTRICAL CONTRACTOR

ELECTRIC WATER COOLER

ELECTRIC WATER HEATER

EXHIBIT RAIL (LENGTH)

DOWN

- DOOR

DOWELS

EACH

DWG'S

DWL'S

ELEC CONTR

EMBED

EP PNT

EMER

EWC

EWH

EXIST

ER-(26)

- CABINET UNIT VENTILATOR

9. THE CONTRACT DOCUMENTS REQUIRE THE CONTRACTOR TO FURNISH AND INSTAL

FOUND BETWEEN DIMENSIONS OR ELEVATIONS SHOWN AND ACTUAL FIELD CONDITIONS,

CONTRACT DOCUMENTS, THE GREATER QUANTITY, HIGHER QUALITY OR MORE STRINGENT

A CLARIFYING ADDENDUM ISSUED DURING THE BIDDING PROCESS, IT HAS VOLUNTEERED

TO COMPLY WITH THE MORE EXPENSIVE REQUIREMENT AS PART OF ITS BASE BID AND

WHETHER INDICATED ON THE DRAWINGS OR NOT, UNLESS SPECIFICALLY CALLED FOR TO

(1997) AND THE AMERICANS WITH DISABILITIES ACT.

MODIFICATION BEFORE PROCEEDING WITH THE PROJECT.

BE REMOVED, RELOCATED, OR DISCONNECTED AND ABANDONED.

INTERRUPTION OF ANY UTILITY.

OTHER TRADES.

SEAL PENETRATIONS OF DUCTWORK, CONDUIT OR PIPES WITH UL APPROVED MATERIALS TO MAINTAIN THE FIRE RATING OF ASSEMBLIES. PROVIDE FIRE DAMPERS AS INDICATED ON THE DRAWINGS.

SEAL WITH ACOUSTICAL SEALANT PENETRATIONS OF DUCTWORK, CONDUIT AND PIPES THROUGH NON-RATED FLOORS, FULL-HEIGHT WALLS/PARTITIONS, ACOUSTICALLY INSULATED WALLS/PARTITIONS, AND SOUND-RATED WALLS/PARTITIONS, TO MAINTAIN THE ACOUSTICAL INTEGRITY OF THOSE ASSEMBLIES.

APPLY APPROPRIATE & COMPATIBLE SEALANT MATERIALS AS REQUIRED TO SEPARATE DISSIMILAR METALS, FILL GAPS IN EXISTING ASSEMBLIES OR WHERE NEW AND EXISTING ASSEMBLIES MEET OR WHERE OTHERWISE REQUIRED BY THE SPECIFICATIONS.

5. BRING ANY UNFORESEEN OR CONFLICTING CONDITIONS TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE

REPAIR, PATCH, OR REPLACE FINISH MATERIALS OR VISIBLE ASSEMBLIES THAT ARE SOILED, CUT OR DAMAGED IN ANY FASHION DURING THE COURSE OF THE WORK. PERFORM PATCHING SUCH THAT EDGES BLEND INTO CONTIGUOUS SURFACES SMOOTHLY, MATCHING TEXTURE AND COLOR OF ADJACENT SURFACES.

DETAIL NUMBER -DRAWING NUMBER -DETAIL NUMBER -DRAWING NUMBER A6.05 COLUMN NUMBER

1ST FLR. 100'-0" ELEVATION ROOM 204 NUMBER

203.2

NOMINAL THICKNESS -CONSTRUCTION TYPE SPECIAL CONDITION

DOOR NO. NEW

IDENTIFICATION

TOILET ACCESSORY

- VINYL COMPOSITION TILE

VENEER PLASTER (TYPE)

WALL CORNER GUARD

WELDED WIRE FABRIC

WALL SERVICE BASIN

VERTICAL

WITHOUT

WINDOW

WEIGHT

WITH

WDN

WSB

WIDE OR WIDTH

WATER PROOF

IDENTIFICATION

SPOT

STEEL

EARTH

CONCRETE

INSULATION

INSULATION

BRICK

WOOD

FINISHED

BLOCKING

BLOCKING

CONTINUOUS

MASONRY UNIT (RUNNING BOND)

CONCRETE

MASONRY UNIT

(STACK BOND)

BITUMINOUS

CONCRETE

ACOUSTIC

GYPSUM

WALL BOARD

RAKED JOINT

CJ / EJ

CEILING PANEL

DISCONTINUOUS

**ELEVATION** 

DOOR NO. EXISTING

KEYNOTE 15.211) IDENTIFICATION WINDOW TYPE

STANDARD ABBREVIATIONS

- ANCHOR BOLT - EXPOSED CONSTRUCTION PLASTIC LAMINATE ABRASIVE - FLOOR DRAIN ACOUSTIC TILE CEILING (TYPE) FOUNDATION PLUMBING - ABOVE FINISH FLOOR PLB'G CONTR FIRE EXTINGUISHER PLUMBING CONTRACTOR ABOVE FINISH GRADE - FIRE EXTINGUISHER CABINET PLYWD PLYWOOD ACOUSTIC PNT - FIRE HOSE CABINET ADDITION FINISH POLYVINYL CHLORIDE ADDITIONAL - FLOOR PL-(1) R OR RAD – GYPSUM PLASTER (TYPE) FRT FIRE RETARDANT TREATED (RATED) ADJACENT RADIUS ADJUSTABLE FUR CHN' - RISER FURRING CHANNEL ROOF DRAIN ALUMINUM FOOTING ALTERNATE ROUGH OPENING GAUGE ANCHOR RUBBER FLOORING (TYPE) GALVANIZED - ACCESS PANE GEN CONTR GENERAL CONTRACTOR RIGHT HAND GENERAL CONTRACTOR APPROXIMATE REFERANCE REINF ASPHALT GLASS REINFORCING AUTOMATIC GYPSUM WALL BOARD (DRYWALL)(TYPE) REQ'D REQUIRED - GYPSUM PLASTER (TYPÈ) AVERAGE - ROOM BSMT BASEMENT - SQUARE FOOT HIGH SQUARE INCH - HEAVY DUTY BITUMINOUS/BITUMASTIC HARD SINK HARDENER - STAINLESS STEEL BUILDING BLK'G BLOCKING (WOOD) HARD WOOD (TYPE) SERVICE SINK SQUARE BEAM HARDWARE - BENCH MARK SCHEDULE B.M. HEIGHT SCHED SEAL/HDNR BT STL PI SEALER/HARDENER BENT STEEL PLATE - HOLLOW META SECTION BEARING HIGH POINT HORIZONTAL SHEET BRACKE BRICK HEATING SIMILAR - HEATING/VENTILATING/AIR CONDITIONING BOTTOM SLAB ON GRADE BTW'N INCH SPECIFICATION(S) - CONSTRUCTION/CONTRACTION JOINT - INSIDE DIAMETER SPACING INCL SPK'R SPEAKER CABINET - INCLUDE (D) CEM PL-(1 CT PAV-(1 INSULATION OR INSULATING STN STD CEMENT PLASTER (TYPE) - STN CERAMIC PAVER TILE (TYPE) STANDARD JOINT STD WGT KD STANDARD WEIGHT CAST— IN— PLACE CONCRETE - KNOCK DOWN LONG CEILING CLEAR LAMINATED - STRUCTURAL OR STRUCTURE LAVATORY SUSP CLEAN OUT SUSPEND(ED) - CONCRETE MASONRY UNIT - LEFT HAND SYM SYMMETRICAL COLUMN LOW POINT TREAD COMB LIGHTWEIGHT COMBINATION TONGUE AND GROOVE COMP - COMPRESSIBL TOP OF BEAM LIVE LOAD COMPT'D COMPACTED LONG LEG HORIZONTAL TOP OF CURB CONC CONCRETE LONG LEG VERTICAL TOP OF FOUNDATION CONC OPNG CONCRETE OPENING LOUVER TOP OF SLAB COND CONDITION MASONRY OPENING - TOP OF STEEL CONT CONTINUOUS - METAL THRESHOLD TOP OF WALL CONTRACT (OR TACKBOARD (LENGTH) MASONRY CPT-(1 TOP OF MASONRY CARPET (TYPE MATERIAL CERAMIC TILE (TYPE) MAXIMUM - MARKERBOARD- (LENGTH) MB-(16)- COUNTER UNLESS NOTED OTHERWISE CTR SK COUNTER SINK MECHANICAL VINYL BASE COVED - MECHANICAL CONTRACTOR CENTER(S) VINYL BASE STRAIGHT

> THE MATERIALS, ABBREVIATIONS, AND DRAFTING SYMBOLS LEGEND ARE EACH AN ALL INCLUSIVE MASTER LIST USED BY THIS FIRM. THE INCLUSION OF THESE LEGENDS INTO THESE DOCUMENTS DOES NOT IMPLY THAT ALL THE SYMBOLS OR MATERIALS INCLUDED IN THESE LEGENDS ARE INCORPORATED INTO THIS PROJECT.

MANUFACTURER

MISCELLANEOUS

- NOT IN CONTRACT

OUTSIDE DIAMETER

OUTSIDE FACE

OPPOSITE HAND

PRESSURE TREATED

PERMANENT FLOOR MAT

- POUNDS PER SQUARE FOOT

- POUNDS PER SQUARE INCH

NOT TO SCALE

MOP SERVICE BASIN (SINK)

MINIMUM

MOUNT(ED)

METAL

NUMBER

OVERALL

OPENING

OPPOSITE

PARTITION

PAVEMENT

PIECE

OD

OPN'G

PAV'T

ON CENTER

**PROJECT** TENNIS CENTER BOILER AND WATER HEATER REPLACEMENT

> 1300 FOREST GATE ROAD OAK BROOK, ILLINOIS 60523

**OWNER** OAK BROOK PARK DISTRICT 1450 FOREST GATE ROAD

OAK BROOK, ILLINOIS 60523

ARCHITECT/ KLUBER, INC. **ENGINEER** 

10 S. SHUMWAY AVENUE BATAVIA, ILLINOIS 60510

TEL 630-406-1213 FAX 630-406-9472 www.kluberinc.com **INDEX OF DRAWINGS** 

COVER SHEET, GENERAL NOTES, SYMBOLS AND DRAWING INDEX

MECHANICAL FLOOR PLANS MECHANICAL SCHEDULES, DETAILS & TEMPERATURE CONTROLS

PLUMBING FLOOR PLANS PLUMBING SCHEDULES & DETAILS

E300 ELECTRICAL FLOOR PLANS

Z

### APPLICABLE CODES

1. INTERNATIONAL BUILDING CODE (IBC); 2015

2. INTERNATIONAL MECHANICAL CODE; 2015 EDITION.

ILLINOIS PLUMBING CODE; 2014 EDITION.

4. NATIONAL ELECTRICAL CODE (NEC); 2014 EDITION

INTERNATIONAL PROPERTY MAINTENANCE CODE; 2015 EDITION.

INTERNATIONAL ENERGY CONSERVATION CODE; 2015 EDITION.

INTERNATIONAL EXISTING BUILDING CODE; 2015

8. INTERNATIONAL FUEL GAS CODE, 2015 EDITION.

9. ILLINOIS ACCESSIBILITY CODE; 1997 EDITION.

10. INTERNATIONAL FIRE CODE; 2015 EDITION.

11. NFPA 13, 2013 EDITION.

SITE LOCATION PLAN (1)

OAK BROOK

TENNIS CENTER

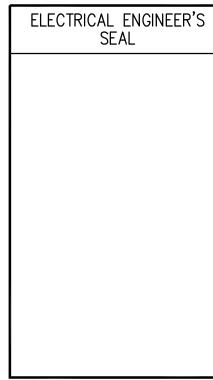
### **SEALS & CERTIFICATES**

I HAVE PREPARED, OR CAUSED TO BE PREPARED UNDER MY DIRECT SUPERVISION, THE ATTACHED PLANS AND SPECIFICATIONS AND STATE THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND TO THE EXTENT OF MY CONTRACTUAL OBLIGATION. THEY ARE IN COMPLIANCE WITH IBC 2015 EDITION THE ENVIRONMENTAL BARRIERS ACT AND THE ILLINOIS ACCESSIBILITY

KLUBER, INC. ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE #184-001284



G100, MFP210, MFP310

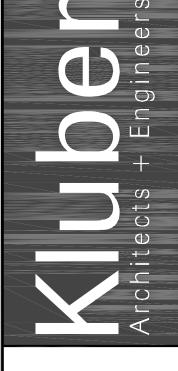


G100, E210, E310

JOB NO. 18-310-1186 CHECKED APPROVED SHEET TITLE COVER SHEET,

**GENERAL NOTES** SYMBOLS AND **DRAWING INDEX** 

SHEET NUMBER



AND

BOILER ROOM DEMOLITION PLAN
SCALE: 1/2" = 1'-0" **KEYNOTES** 

# BOILER ROOM NEW WORK PLAN

**KEYPLAN** 

- EXHAUST PIPE UP

1-1/2"

SCALE: 1/2" = 1'-0"

## MECHANICAL GENERAL NOTES

REFER TO DRAWING G100 FOR PROJECT GENERAL NOTES.

HAVING JURISDICTION.

HWS/R TO VAV BOXES

CONTROL CABINET(e) —

ET(e)

TO MAKEUP WATER -

ALL PIPING AND IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL REQUIRED FITTINGS, OFFSETS, DROPS AND RISES. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIAL AND LABOR FOR A COMPLETE AND WORKING SYSTEM. COORDINATE WITH OTHER TRADES FOR SPACE AVAILABLE AND RELATIVE LOCATIONS OF EQUIPMENT, PIPING,

1-1/2"-

BOILER

- GENERALLY, SMALL DIAMETER PIPE RUNS FROM DRIPS, CONDENSATE PANS AND OTHER SERVICES ARE NOT SHOWN BUT MUST BE PROVIDED.
- 4. SPACE ALLOCATION, COORDINATION WITH ELECTRICAL, ARCHITECTURAL & OTHER MECHANICAL COMPONENTS HAVE BEEN MADE WITH RESPECT TO ALL EQUIPMENT SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS OF THE FIRST NAMED MANUFACTURER ONLY. OTHER MANUFACTURERS ARE ACCEPTABLE PROVIDED THEY MEET PERFORMANCE REQUIREMENTS AND AFOREMENTIONED COORDINATION.
- 5. DO NOT CUT THROUGH THE MASONRY BOND BEAMS OR OTHER STRUCTURAL ELEMENT WHEN INSTALLING OPENINGS REQUIRED FOR ALL DUCTWORK, PIPING, CONDUITS OR OTHER WORK. CONTRACTOR CUTTING THROUGH OR OTHERWISE DAMAGING THESE ELEMENTS WILL BE RESPONSIBLE FOR ALL ASSOCIATED ENGINEERING FEES AND SUBSEQUENT RETRO-FIT/REINFORCING DEEMED NECESSARY TO REINSTATE THE CONTINUITY OF THE DISRUPTED
- OBTAIN AND PAY ALL COSTS FOR PERMITS, LICENSES, CERTIFICATE FILING AND ALL INSPECTIONS BY AUTHORITIES

JOINT SEALANT COLOR MATCHING BRICK COLOR AT EXTERIOR WALL FACE.

- 2.420 CORE EXISTING BRICK AND CONCRETE MASONRY WALL TO PERMIT INSTALLATION OF VENT PIPE; PROTECT EXISTING WINDOWS, WALL SURFACE, AND LOUVER BELOW FROM SLURRY FROM CORING OPERATION; FILL ANNULAR SPACE AROUND VENT PIPE WITH LOW-EXPANSION POLYURETHANE FOAM, AND PROVIDE CLOSED CELL FOAM BACKER ROD AN LOW MODULUS SILICONE JOINT SEALANT AT INTERIOR AND EXTERIOR FACES OF WALL; PROVIDE
- 9.113 PAINT EXPOSED EXTERIOR SURFACES OF VENT PIPE; COLOR TO MATCH EXISTING BRICK; ONE COAT MASTER PAINTER INSTITUTE (MP1) #17 WATER-BASED BONDING PRIMER AND TWO TOPCOATS (MP1) #151 WATER-BASED
- LIGHT INDUSTRIAL COATING; PREPARE SURFACES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 23.100 REMOVE BOILER AND ALL ASSOCIATED PIPING AND SPECIALITIES AS SHOWN. REMOVE PIPING BACK TO LOCATIONS SHOWN. PROVIDE TEMPORARY CAP ON SECTIONS TO REMAIN FOR NEW CONNECTION. 23.101 REMOVE COMBUSTION AIR BOX AND ASSOCIATED DAMPER. PROVIDE INSULATED PANEL FOR LOUVER.
- 23.102 REMOVE HWS/R PIPING FOR THE TENNIS COURTS BACK TO WALL. PROVIDE PERMANENT CAP ON PIPING AT
- 23.103 DISCONNECT, PROTECT AND RELOCATE 3-WAY VALVE AT AIR HANDLING UNIT. SEE NEW WORK PLANS FOR NEW
- 23.104 REMOVE PRESSURE REDUCING VALVE AND ASSOCIATED GALVANIZED PIPING FOR MAKEUP WATER. 23.105 REMOVE BOILER EXHAUST VENTING BACK TO WALL. PROVIDE PERMANENT CAP ON DUCTWORK.
- 23.106 REMOVE PUMP AND TURN OVER TO OWNER. PROVIDE TEMPORARY CAPS ON PIPING FOR NEW CONNECTION.
- 23.200 PROVIDE NEW BOILER, ALL ASSOCIATED PIPING AND SPECIALITIES. 23.201 PROVIDE BOILER EXHAUST AND COMBUSTION AIR VENTING. VENTING SHALL BE SIZED AND CONFIGURED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. PROVIDE EXHAUST PVC PIPE UP THROUGH EXISTING CHIMNEY. CAP TOP OF CHIMNEY AROUND EXHAUST PIPE. SEAL PENETRATION AROUND EXHAUST PIPE INTO
- CHIMNEY IN BOILER ROOM. 23.203 RELOCATED 3-WAY VALVE FOR AIR HANDLING UNIT.
- 23.205 INTERFACE NEW EQUIPMENT INTO THE EXISTING B.A.S.. 23.206 INSULATE SECTION OF EXISTING HWS/R PIPING IN MECHANICAL ROOM.
- 23.207 PROVIDE NEW PRESSURE REDUCING VALVE FOR BOILER MAKEUP WATER. 23.208 PROVIDE NEW CHEMICAL TREATMENT EQUIPMENT. MOUNT EQUIPMENT ON RACK. COORDINATE EXACT LOCATION OF EQUIPMENT WITH OWNER.

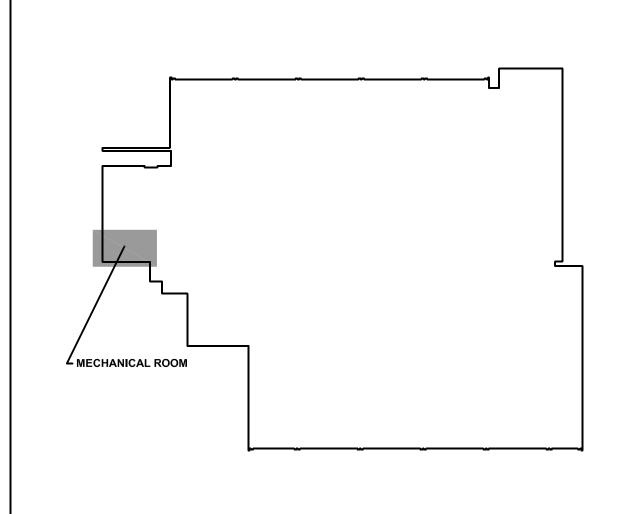
## KEYNOTES ARE NOT ALWAYS REPEATED ACROSS ALL DRAWINGS ON THIS SHEET. AN UN-KEYNOTED ITEM ON THIS SHEET IS THE SAME AS A KEYNOTED ITEM ON THIS SHEET HAVING THE SAME GRAPHIC APPEARANCE. 23.209 PROVIDE INSULATED PANEL BEHIND WALL LOUVER.

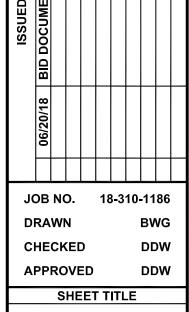
TO MAKEUP WATER

23.209

23.210 PROVIDE MODIFICATIONS TO PIPES FOR DIRECT FLOW THROUGH COIL. 23.211 PROVIDE CONNECTION TO EXISTING EXPANSION TANK. 23.212 PROVIDE NEW PUMP AND SPECIALITIES. PROVIDE ALL MATERIALS AND LABOR TO CONNECT TO EXISTING

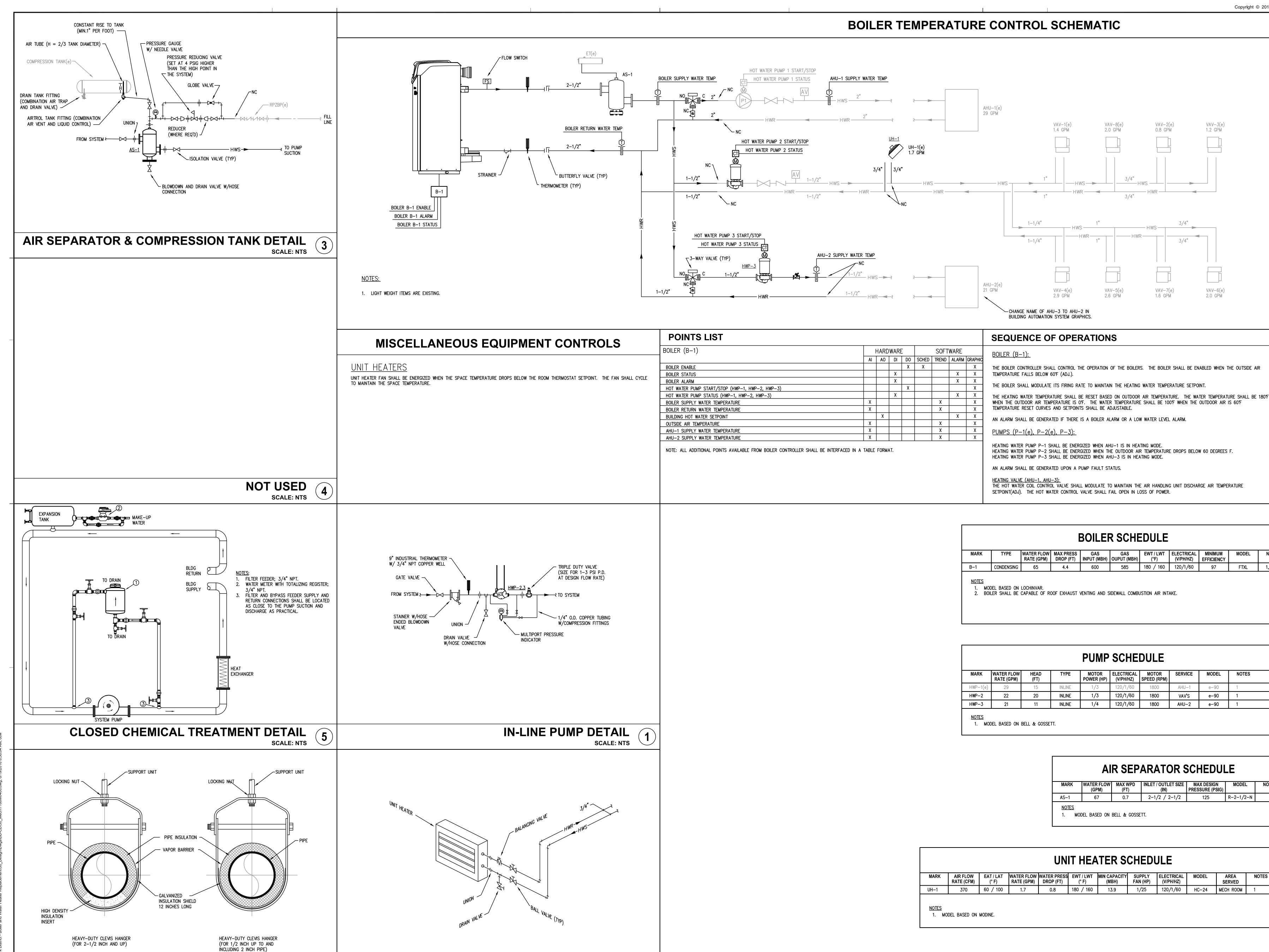
HWS/R TO VAV BOXES





MECHANICAL FLOOR

SHEET NUMBER



**UNIT HEATER PIPING DETAIL** 

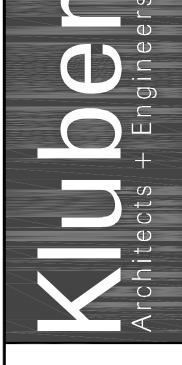
PIPE HANGER DETAILS 6

AND

DRAWN CHECKED

SHEET TITLE **MECHANICAL** SCHEDULES, DETAILS **& TEMPERATURE** 

CONTROLS SHEET NUMBER



AND

**BOILER ROOM NEW WORK PLAN** 

 $\mathcal{L}$  EXHAUST PIPE UP

# SCALE: 1/2" = 1'-0"



1. REFER TO DRAWING G100 FOR PROJECT GENERAL NOTES.

MAKE UP WATER(e)

- ALL PIPING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISES. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIAL AND LABOR FOR A COMPLETE AND WORKING SYSTEM.
- OBTAIN AND PAY ALL COSTS FOR PERMITS, LICENSES, CERTIFICATE FILING AND INSPECTIONS BY AUTHORITIES HAVING JURISDICTION.
- EXISTING PIPING INDICATED ON THESE PLANS SHALL BE FIELD VERIFIED FOR EXACT LOCATIONS, QUANTITY AND
- DO NOT CUT THROUGH THE MASONRY BOND BEAMS OR OTHER STRUCTURAL ELEMENT WHEN INSTALLING OPENINGS REQUIRED FOR ALL, PIPING, CONDUITS OR OTHER WORK. CONTRACTOR CUTTING THROUGH OR OTHERWISE DAMAGING THESE ELEMENTS WILL BE RESPONSIBLE FOR ALL ASSOCIATED ENGINEERING FEES AND SUBSEQUENT RETRO-FIT/REINFORCING DEEMED NECESSARY TO REINSTATE THE CONTINUITY OF THE DISRUPTED ELEMENTS.
- 2.420 CORE EXISTING BRICK AND CONCRETE MASONRY WALL TO PERMIT INSTALLATION OF VENT PIPE; PROTECT EXISTING WINDOWS, WALL SURFACE, AND LOUVER BELOW FROM SLURRY FROM CORING OPERATION; FILL ANNULAR SPACE AROUND VENT PIPE WITH LOW-EXPANSION POLYURETHANE FOAM, AND PROVIDE CLOSED CELL FOAM BACKER ROD AN LOW MODULUS SILICONE JOINT SEALANT AT INTERIOR AND EXTERIOR FACES OF WALL; PROVIDE
- JOINT SEALANT COLOR MATCHING BRICK COLOR AT EXTERIOR WALL FACE. 9.113 PAINT EXPOSED EXTERIOR SURFACES OF VENT PIPE; COLOR TO MATCH EXISTING BRICK; ONE COAT MASTER
- PAINTER INSTITUTE (MP1) #17 WATER-BASED BONDING PRIMER AND TWO TOPCOATS (MP1) #151 WATER-BASED LIGHT INDUSTRIAL COATING; PREPARE SURFACES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 3.111 CONCRETE FORMING AND ACCESSORIES: CONTINUOUS 3/4" CHAMFER U.N.O. 3.250 CONCRETE REINFORCING: WWF REFER TO SLAB CALLOUT ON PLAN. PROVIDE WWF-6X6 W2.1 X W2.1 IN FLAT SHEETS U.N.O. PROVIDE PROPER SUPPORT AS REQUIRED TO MAINTAIN PLACEMENT AT NOTED ELEVATION. "PULL UP" METHOD DURING SLAB PLACEMENT NOT ACCEPTABLE. DISCONTINUE AT CONTRACTION AND CONSTRUCTION
- 3.261 CONCRETE REINFORCING: #4 DOWEL X 4" LG. @ 2'-0" O.C. U.N.O. ANCHOR INTO EXISTING SLAB/WALL/FOOTING USING INJECTION ADHESIVE/EPOXY SYSTEM. EMBEDMENT TO BE 2" U.N.O. 3.301 CAST-IN-PLACE CONCRETE: EQUIPMENT PAD. REFER TO DETAIL A/P300 FOR THICKNESS, REINFORCING, MIX TYPE AND FINISH. COORDINATE SIZE, LOCATION AND QUANTITY WITH M.E.P. DRAWINGS AND MANUFACTURER
- 3.350 CAST-IN-PLACE CONCRETE ACCESSORY: BONDING AGENT. ROUGHEN BASE SLAB AS REQUIRED.
- 22.100 REMOVE HOT WATER BOILER AND HOT WATER STORAGE TANK. REMOVE ALL PIPES TO LOCATION AS SHOWN AND PROVIDE TEMPORARY CAP. COORDINATE WITH OWNER FOR SHUTDOWN OF DOMESTIC WATER SYSTEM.
- 22.102 REMOVE SECTIONS OF GALVANIZED PIPE BACK TO LOCATIONS SHOWN. 22.103 REMOVE WATER HEATER EXHAUST VENTING BACK TO WALL. PROVIDE PERMANENT CAP ON DUCTWORK.
- 22.200 PROVIDE FINAL GAS CONNECTION TO MECHANICAL EQUIPMENT. FIELD VERIFY EXISTING GAS PRESSURE. PROVIDE REQUIRED PRESSURE REGULATOR AND SHUTOFF VALVE. PROVIDE SHUTOFF VALVE WITH PRESSURE TEST PORT UPSTREAM AND DOWNSTREAM OF PRESSURE REGULATOR. PROVIDE DIRT LEG UPSTREAM OF PRESSURE

22.101 REMOVE GAS PIPING BACK TO LOCATION SHOWN. PROVIDE TEMPORARY CAP ON PIPING FOR NEW CONNECTION.

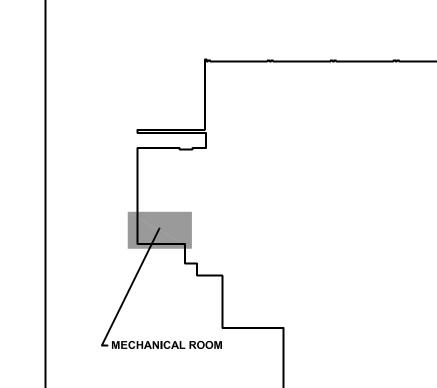
## KEYNOTES ARE NOT ALWAYS REPEATED ACROSS ALL DRAWINGS ON THIS SHEET. AN UN-KEYNOTED ITEM ON THIS SHEET IS THE SAME AS A KEYNOTED ITEM ON THIS SHEET HAVING THE SAME GRAPHIC APPEARANCE.

22.200

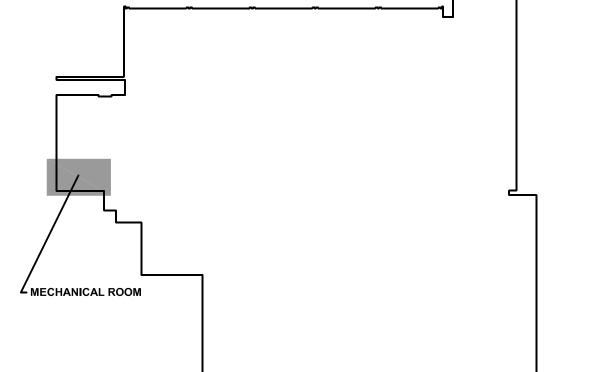
WATER(e)

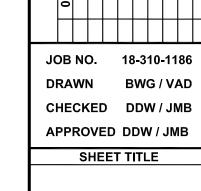
22.201 PROVIDE WATER HEATER EXHAUST AND COMBUSTION AIR VENTING. VENTING SHALL BE SIZED AND CONFIGURED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. PROVIDE EXHAUST VENT PVC PIPE UP THROUGH EXISTING CHIMNEY. CAP TOP OF CHIMNEY AROUND EXHAUST VENT PIPE.

22.202 INSULATE EXISTING PIPING AT WATER METER AND BACKFLOW PREVENTER. 22.203 ROUTE NEW COLD WATER PIPE FOR HOSE BIB AS HIGH AS POSSIBLE IN SPACE TO PERMIT INSTALLATION OF NEW UNIT HEATER.



**KEYPLAN** 





PLUMBING FLOOR

SHEET NUMBER

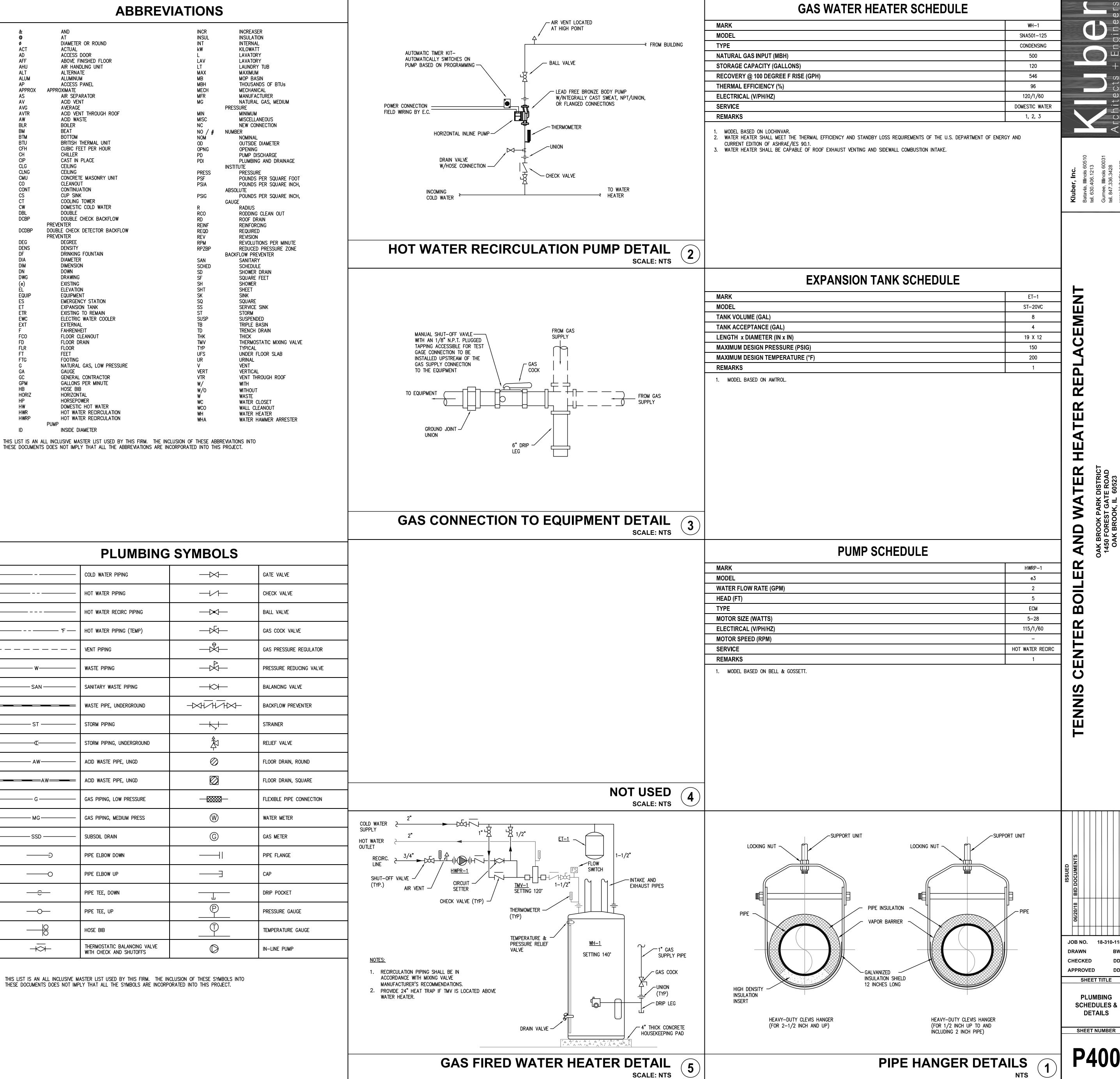
3.261 TYPICAL EQUIPMENT PAD DETAIL (A) SCALE: N.T.S.

COORD. WITH M.E.P. REQUIREMENTS

BOILER ROOM PLUMBING DEMOLITION PLAN SCALE: 1/2" = 1'-0"

**KEYNOTES** 

6" VENT



BOILER ROOM NEW WORK PLAN (1) SCALE: 1/2" = 1'-0"

**KEYPLAN** 

26.100 NO ELECTRICAL CONNECTION TO THIS EQUIPMENT.

26.200 DEMOLISH EXISTING ELECTRICAL CONNECTION TO PUMP TO BE REMOVED. DEMOLISH BRANCH CIRCUITRY IN ITS ENTIRETY TO SOURCE. REMOVE EXISTING 20 AMPERE, 3 POLE BREAKER (LPD-7/9/11). 26.201 DISCONNECT EXISTING ELECTRICAL CONNECTION TO PUMP TO BE REPLACED. PROTECT FEEDER TO BE REUSED

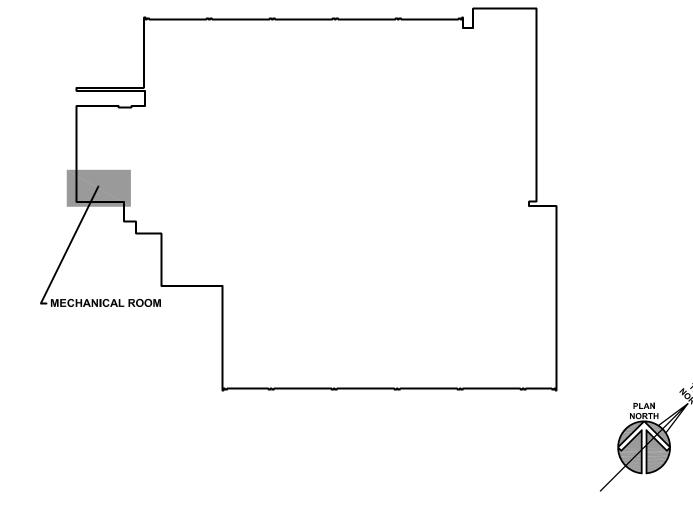
KEYNOTES ARE NOT ALWAYS REPEATED ACROSS ALL DRAWINGS ON THIS SHEET. AN UN-KEYNOTED ITEM ON THIS SHEET IS THE SAME AS A KEYNOTED ITEM ON THIS SHEET HAVING THE SAME GRAPHIC APPEARANCE.

- FOR NEW PUMP. 26.202 DISCONNECT EXISTING ELECTRICAL CONNECTION TO WATER HEATER TO BE REPLACED. PROTECT FEEDER TO BE REUSED FOR NEW WATER HEATER.
- 26.203 DISCONNECT EXISTING ELECTRICAL CONNECTION TO HOT WATER RECIRCULATION PUMP TO BE REPLACED. PROTECT FEEDER TO BE REUSED FOR NEW PUMP.
- 26.204 DISCONNECT EXISTING ELECTRICAL CONNECTION TO BOILER TO BE REPLACED. PROTECT FEEDER TO BE REUSED FOR BOILER.
- 26.300 PROVIDE ELECTRICAL CONNECTION TO NEW MECHANICAL EQUIPMENT: UNIT HEATER. PROVIDE (QUANT. 3) 20 AMPERE, SINGLE POLE BREAKERS IN PANEL LPD (7,9,11). HOMERUN 2#12,#12G,1/2"C TO NEW 20 AMPERE, SINGLE POLE BREAKER IN EXISTING PANEL LPD. LABEL (QUANT. 2) UNUSED 20 AMPERE BREAKERS AS
- 26.301 PROVIDE ELECTRICAL CONNECTION TO NEW MECHANICAL EQUIPMENT: HOT WATER PUMP. EXTEND EXISTING HOT WATER PUMP BRANCH CIRCUITRY TO NEW PUMP AS NECESSARY AND RECONNECT TO ENSURE A COMPLETE AND
- HEATER BRANCH CIRCUITRY TO NEW EQUIPMENT AS NECESSARY AND RECONNECT TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM.
- TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM (PANEL LPD-29). 26.304 PROVIDE ELECTRICAL CONNECTION TO NEW MECHANICAL EQUIPMENT: BOILER. EXTEND EXISTING BOILER
- BRANCH CIRCUITRY TO NEW PUMP AS NECESSARY AND RECONNECT TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM (PANEL LPD-20).



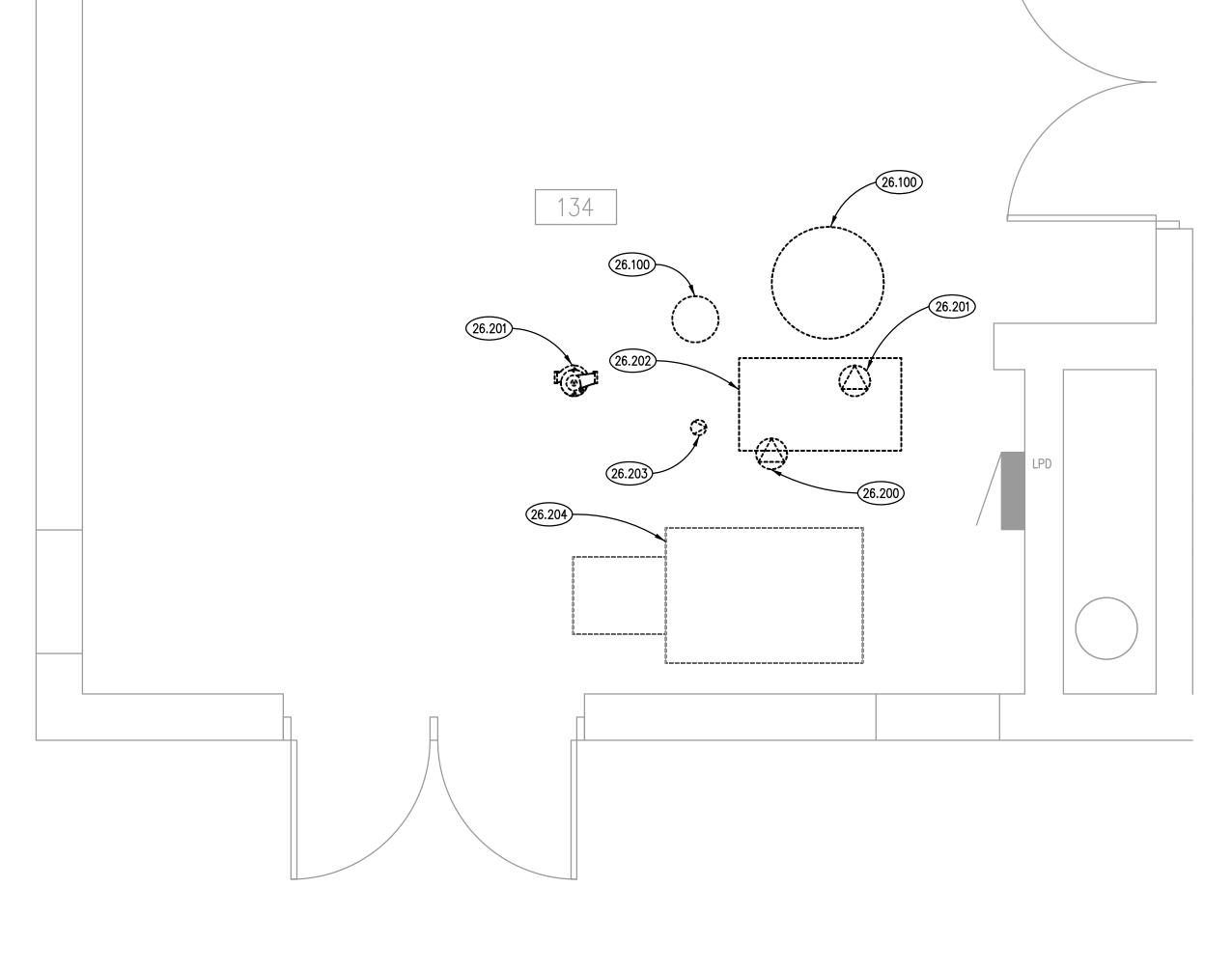
**KEYNOTES** 

26.302 PROVIDE ELECTRICAL CONNECTION TO NEW MECHANICAL EQUIPMENT: WATER HEATER. EXTEND EXISTING WATER 26.303 PROVIDE ELECTRICAL CONNECTION TO NEW MECHANICAL EQUIPMENT: HOT WATER RECIRCULATION PUMP. EXTEND EXISTING HOT WATER RECIRCULATION PUMP BRANCH CIRCUITRY TO NEW PUMP AS NECESSARY AND RECONNECT



JOB NO. 18-310-1186 DRAWN CHECKED **APPROVED** SHEET TITLE ELECTRICAL FLOOR

SHEET NUMBER



HVAC/PLUMBING EQUIPMENT SCHEDULE

N/A

N/A

N/A

BOILER ROOM DEMOLITION PLAN SCALE: 1/2" = 1'-0"

CIRCUIT WIRING

EXISTING

**EXISTING** 

EXISTING

2#12,#12G,1/2"C

**EXISTING** 

EXISTING

DESCRIPTION HWP-2 HWP-3 PUMP UNIT HEATER HWRP-1 HOT WATER RECIRC PUMP WATER HEATER