

# COLLEGE OF EASTERN UTAH BUNNEL-DMITRICH ATHLETIC CENTER HVAC UPGRADE - PHASE II

451 EAST 400 NORTH / PRICE, UTAH 84501

FEBRUARY 18, 2008  
CONSTRUCTION DOCUMENTS



STATE OF UTAH  
DEPARTMENT OF ADMINISTRATIVE SERVICES  
DIVISION OF FACILITIES CONSTRUCTION AND MANAGEMENT

4110 STATE OFFICE BUILDING / SALT LAKE CITY, UTAH 84114 /  
801.538.3018 / [www.dfc.state.ut.us](http://www.dfc.state.ut.us)

DFCM PROJECT NO. 06162610

COLLEGE OF  
Eastern Utah

ARCHITECT:



SCOTT P. EVANS - ARCHITECT  
& ASSOCIATES P.C.

108 WEST CENTER STREET / BOUNTIFUL, UTAH 84010 /  
801.298.1368 / [www.spe-architect.com](http://www.spe-architect.com)

STRUCTURAL ENGINEER:



BHB CONSULTING ENGINEERS

244 WEST 300 NORTH / SALT LAKE CITY, UTAH 84103  
801.355.5656 / [www.bhbengineers.com](http://www.bhbengineers.com)

MECHANICAL ENGINEER:



VAN BOERUM & FRANK  
ASSOCIATES

330 SOUTH 300 EAST / SALT LAKE CITY, UTAH 84111  
801.530.3148 / [www.vbfa.com](http://www.vbfa.com)

ELECTRICAL ENGINEER:



SPECTRUM ENGINEERS

WALKER BANK BUILDING 175 SOUTH MAIN STREET  
# 300 SALT LAKE CITY, UTAH 84111 /  
801.355.5151 / [www.spectrum-engineers.com](http://www.spectrum-engineers.com)

# CODE ANALYSIS

APPLICABLE CODES			
Year		Year	
International Building Code	2006	National Electrical Code	2005
International Mechanical Code	2006	Uniform Code for	
International Plumbing Code	2008	Building Conservation	
International Fire Code	2006	ADA Accessibility	
International Energy Conservation Code		Guidelines	2006

A. Occupancy and Group: A 2.1 ORIGINAL

Change in Use: Yes No X Mixed Occupancy: Yes X No   
 Special Use and Occupancy (e.g. High Rise, Covered Mall): N.A.

B. Seismic Design Category:  Design Wind Speed:  mph

C. Type of Construction (circle one):  
I II III IV V VI  
A B A B A B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):  
 North: 1 South: 1 East: 1 West: 1

E. Mixed Occupancies: X Nonseparated Uses:

F. Sprinklers:  
 Required: YES Provided: YES Type of Sprinkler System: WET  
**IN LIEU OF 1-HR GYM HAS CEILING OPEN TO STRUCTURE**

# ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
ALT.	ALTERNATE
AL.	ALUMINUM
ACI	AMERICAN CONCRETE INSTITUTE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASTM	AMERICAN SOCIETY OF TESTING & MATERIALS
AWIS	AMERICAN WELDING SOCIETY
A.B.	ANCHOR BOLT
&	AND
L	ANGLE
APPD.	APPROVED
APPROX.	APPROXIMATE
ARCH.	ARCHITECT OR ARCHITECTURAL
AC	ARCHITECTURAL CONCRETE
AVG.	AVERAGE
@	AT
BM	BEAM
BLKG.	BLOCKING
BOT.	BOTTOM
BRKT.	BRACKET
BLDG.	BUILDING
CSMU	CALCIUM SILICATE MASONRY UNIT
C.B.	CATCH BASIN
CTR.	CENTER
CL	CENTERLINE
C TO C	CENTER TO CENTER
]	CHANNEL
C.O.	CLEANOUT
COL	COLUMN
COMP.	COMPOSITION
C.M.U.	CONCRETE MASONRY UNIT
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CSK.	COUNTERSINK
C.J.	CONTROL JOINT
CU.	CUBIC
CU. FT.	CUBIC FOOT
CFM	CUBIC FEET PER MINUTE
CU. IN.	CUBIC INCH
CU. YD.	CUBIC YARD
DEPT.	DEPARTMENT
DIAG.	DIAGONAL
Ø	DIAMETER
DIM.	DIMENSION
DR	DOOR
DBL.	DOUBLE
DWG.	DRAWING
ELEC.	ELECTRICAL
EWC	ELECTRIC WATER COOLER
EL.	ELEVATION
EQUIP.	EQUIPMENT
EJ/EXP. JT.	EXPANSION JOINT
EIFS	EXTERIOR INSULATION FINISH SYSTEM
F.S.	FAR SIDE
FT. or'	FEET OR FOOT
F.V.	FIELD VERIFY
F.F.	FINISH FLOOR
F.E.C.	FIRE EXTINGUISHER CABINET
F.H.C.	FIRE HOSE CABINET
F.H.	FIRE HYDRANT
FRT	FIRE RETARDANT TREATED
FD	FLOOR DRAIN
FLUOR.	FLUORESCENT
FTG.	FOOTING
FND.	FOUNDATION
GALV.	GALVANIZED
GA.	GAGE OR GAUGE
GSU	GLAZED STRUCTURAL UNIT
GYP. BD.	GYP. BOARD
HDW.	HARDWARE
HGT.	HEIGHT
HSB	HIGH STRENGTH BOLT
HORIZ.	HORIZONTAL
"	INCH
INFO.	INFORMATION
I.D.	INSIDE DIAMETER
INTER.	INTERMEDIATE
K	KIP (1,000 LB.)
LAB.	LABORATORY
MFG.	MANUFACTURER
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
NBFU	NATIONAL BOARD OF FIRE UNDERWRITERS
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
N.S.	NEAR SIDE
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO. or #	NUMBER
O.C.	ON CENTER
OPNG.	OPENING
OPP.	OPPOSITE
O.D.	OUTSIDE DIAMETER
d	PENNY
∟	PER
PERP.	PERPENDICULAR
Ø	PHASE
LB. or #	POUND
PREFAB.	PREFABRICATED
P.L.	PROPERTY LINE
R	RADIUS
REINF.	REINFORCING
REQ'D.	REQUIRED
REV.	REVISION
R&S	ROD & SHELF
RD	ROAD
RM	ROOM
RD. or Ø	ROUND
SHT.	SHEET
SIM.	SIMILAR
SAB	SOUND ATTENUATION BLANKET
SPEC.	SPECIFICATION
SQ. or	SQUARE
SYM.	SYMMETRICAL
SSEIS	SYNTHETIC STUCCO EXTERIOR INSULATION SYSTEM
T.O.M.	TOP OF MASONRY
T.B.C.	TOP BACK OF CURB
T.L.	TOP OF LANDSCAPING
T.W.	TOP OF WALK
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP.	TYPICAL
UN.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
VWC.	VINYL WALL COVERING
WWF	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT

# MATERIAL DESIGNATIONS

	EARTH
	POROUS FILL
	ASPHALT
	CONCRETE
	CONCRETE MASONRY UNITS
	BRICK
	CAST STONE
	CERAMIC TILE
	WOOD (FINISH)
	WOOD (STUDS, NAILERS)
	WOOD (BLOCKING)
	PLYWOOD
	BATT INSULATION
	RIGID INSULATION
	PLASTER
	ACOUSTIC TILE
	GYP. BOARD
	GLASS
	STEEL
	PARTICLE BOARD
	RIGID INSULATION

# GRAPHIC SYMBOLS

	DETAIL/WALL or SECTION NUMBER
	SHEET NUMBER
	DOOR NUMBER
	WINDOW NUMBER
	ROOM NAME
	ROOM NUMBER
	REVISION NUMBER
	DETAIL, WALL or SECTION NUMBER
	SHEET NUMBER
	GRID REFERENCE
	REFERENCE NORTH (PLANS)
	ELEVATION REFERENCE
	KEYED NOTE NUMBER
	INTERIOR ELEVATION MARKER
	WALL TYPES
	DRAWINGS REVISION
	REVISION NUMBER

# DRAWING INDEX

SHT. #	DRAWING TITLE
	<b>GENERAL:</b>
GI-001	TITLE SHEET
GI-002	GENERAL INFORMATION
	<b>STRUCTURAL:</b>
SJ001	GENERAL STRUCTURAL NOTES
SB101	PLAN AND DETAILS
	<b>ARCHITECTURAL:</b>
AS-101	SITE PLAN
AS-102	ENLARGED SITE PLAN
AE-301	WALL SECTION
AE-302	WALL SECTION
AE-501	DETAILS
	<b>MECHANICAL:</b>
M-001	LEGEND OF MECHANICAL SYMBOLS AND ABBREVIATIONS
MS-1	MECHANICAL SITE PLAN
MP-1.1	LEVEL #1 AREA #1 MECHANICAL DEMOLITION PLAN
MP-1.2	LEVEL #1 AREA #2 MECHANICAL DEMOLITION PLAN
MP-2.1	LEVEL #2 AREA #1 MECHANICAL DEMOLITION PLAN
MP-2.2	LEVEL #2 AREA #2 MECHANICAL DEMOLITION PLAN
MP-3.1	LEVEL #1 AREA #3 MECHANICAL PLAN
MP-4.1	LARGE SCALE MECHANICAL RM. DEMONENW PLAN
MP-5.1	MECHANICAL BUILDING SECTIONS
MP-5.2	MECHANICAL BUILDING SECTIONS
MP-6.1	MECHANICAL DETAILS
MP-6.2	MECHANICAL DETAILS
MP-7.1	SCHEDULES
	<b>ELECTRICAL:</b>
EE-001	SYMBOL LEGEND SHEET INDEX & SCHEDULES
EE-002	ONE-LINE DIAGRAMS
ED-101	LEVEL #1 AREA #1 DEMOLITION PLAN
EP-101	LEVEL #1 AREA #1 POWER PLAN
EP-102	LEVEL #1 AREA #2 POWER PLAN
EP-103	LEVEL #1 AREA #3 POWER PLAN



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01	02/18/08	CONSTRUCTION DOCUMENTS

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01 02/18/08 CONSTRUCTION DOCUMENTS

DFCM PROJECT #: 06162610  
 SPE PROJECT #: 06-35A  
 DRAWN BY: JBE  
 CHECKED BY: SPE  
 DESIGNED BY: SPE

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SHEET TITLE:  
**GENERAL INFORMATION**

SHEET NUMBER:  
**GI-002**



**A3 VICINITY MAP**  
SCALE: NONE



**A4 LOCATION MAP**  
SCALE: NONE





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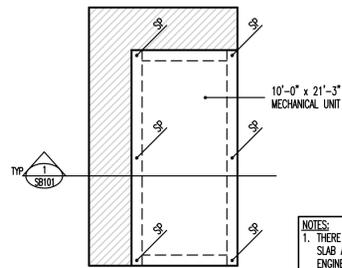
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BHB PROJECT #: 08034  
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SHEET TITLE:

PLAN AND DETAILS

SHEET NUMBER:

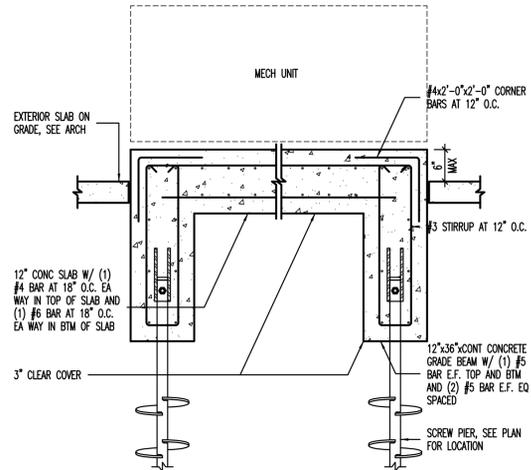
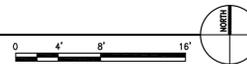
**SB101**



- NOTES:**
1. THERE MIGHT BE CONCRETE CAISSONS UNDER THIS SLAB AREA; IF FOUND, CONTACT ARCHITECT AND ENGINEER OF RECORD FOR A RESOLUTION.
  2. SCREW PIERS (SP) ARE GOOD FOR 40 KIPS ALLOWABLE (80 KIPS ULTIMATE). SCREW PIER SUPPLIER TO PROVIDE A BASE BID WITH 20 FOOT SCREW PIERS WITH A PRICE PER FOOT ADD OVER 20 FEET AND A PRICE PER FOOT CREDIT UNDER 20 FEET.

**AREA '2' MECHANICAL PAD**

SCALE: 1/8"=1'-0"



**1 MECHANICAL PAD DETAIL FOR AREA '2'**

NO SCALE

BAR SIZE	$f'_c = 3000\text{psi}$				$f'_c = 4000\text{psi}$				$f'_c = 5000\text{psi}$				$f'_c = 6000\text{psi}$			
	REGULAR		TOP		REGULAR		TOP		REGULAR		TOP		REGULAR		TOP	
	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	
#3	13"	17"	17"	21"	12"	16"	16"	21"	12"	16"	16"	21"	12"	16"	16"	21"
#4	17"	22"	22"	28"	15"	19"	19"	25"	13"	17"	17"	22"	12"	16"	16"	21"
#5	21"	27"	27"	35"	18"	24"	24"	31"	16"	21"	21"	27"	15"	19"	19"	25"
#6	27"	36"	36"	46"	24"	31"	31"	40"	21"	28"	28"	36"	20"	25"	25"	33"
#7	37"	48"	48"	63"	32"	42"	42"	54"	29"	38"	38"	49"	27"	34"	34"	44"
#8	49"	64"	64"	82"	42"	55"	55"	71"	38"	49"	49"	64"	35"	45"	45"	58"
#9	62"	80"	80"	104"	54"	70"	70"	90"	48"	62"	62"	81"	44"	57"	57"	74"
#10	78"	102"	102"	132"	68"	88"	88"	115"	61"	79"	79"	102"	56"	72"	72"	94"
#11	96"	125"	125"	162"	83"	108"	108"	141"	76"	97"	97"	126"	68"	88"	88"	115"

- CONCRETE REINFORCING BAR LAP SPICE NOTES:**
1. THIS SCHEDULE SHALL BE USED FOR ALL BAR SPLICES IN CONCRETE WALLS, UNLESS NOTED OTHERWISE.
  2. CLASS 'A' SPLICES MAY BE USED ONLY IN CASES WHERE 50% OR LESS OF THE BARS ARE SPLICED WITHIN THE LAP SPICE LENGTH.
  3. CLASS 'B' SPLICES SHALL BE USED FOR ALL SPLICES UNLESS THE REQUIREMENTS OF NOTE No. 2 ABOVE ARE MET.
  4. TIES AND STIRRUPS SHALL NOT BE SPLICED.
  5. SPLICES FOR BUNDLED BARS:
    - a. FOR BUNDLED BARS OF THREE OR LESS, LAP SPICE LENGTHS SHALL BE MULTIPLIED BY 1.2.
    - b. FOR BUNDLED BARS OF FOUR OR MORE, LAP SPICE LENGTHS SHALL BE MULTIPLIED BY 1.33.
    - c. INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP.
    - d. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED.
  6. FOR ALL LIGHTWEIGHT CONCRETE, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3.
  7. FOR ALL EPOXY COATED BARS, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3 FOR TOP BARS AND 1.5 FOR REGULAR BARS.
  8. TOP BARS ARE CLASSIFIED AS HORIZONTAL BARS WHERE 12", OR MORE, OF FRESH CONCRETE IS CAST BELOW THE REINFORCING BAR.
  9. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

**2 CONCRETE REINFORCING BAR LAP SPICE SCHEDULE**

NO SCALE

**MARKS AND SYMBOLS LEGEND**

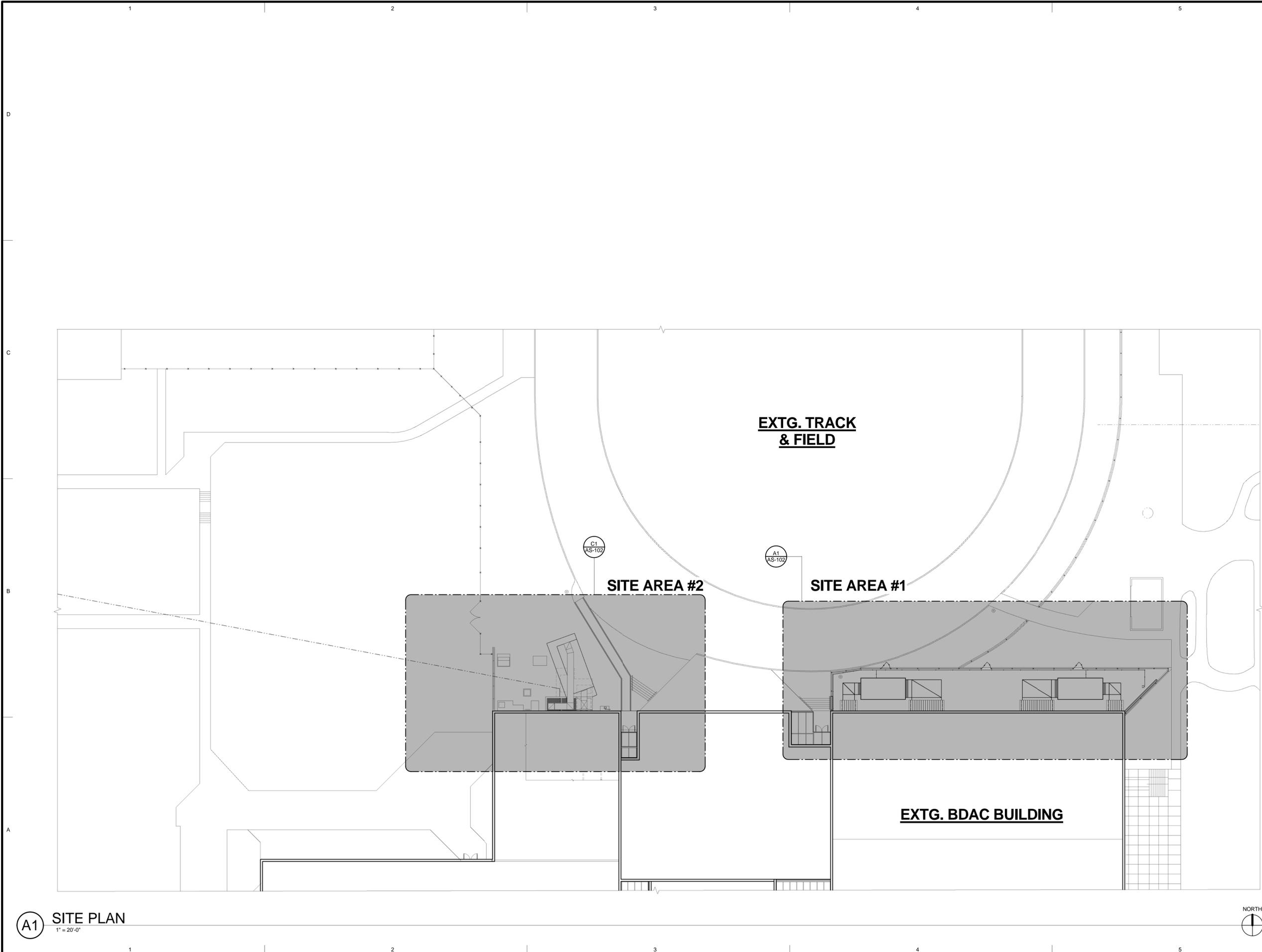
- SECTION MARK  
SHEET NUMBER  
SP INDICATES SCREW PIER.

**FOOTING AND FOUNDATION PLAN NOTES**

1. COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.



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ARCHITECTS INFORMATION



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ELECTRICAL ENGINEER  
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SHEET TITLE

**SITE PLAN**

SHEET NUMBER:

**AS-101**

**A1** SITE PLAN  
1" = 20'-0"



Last Plotted: 2/12/2008 10:30:30 AM



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SHEET TITLE:  
**ENLARGED SITE PLAN**

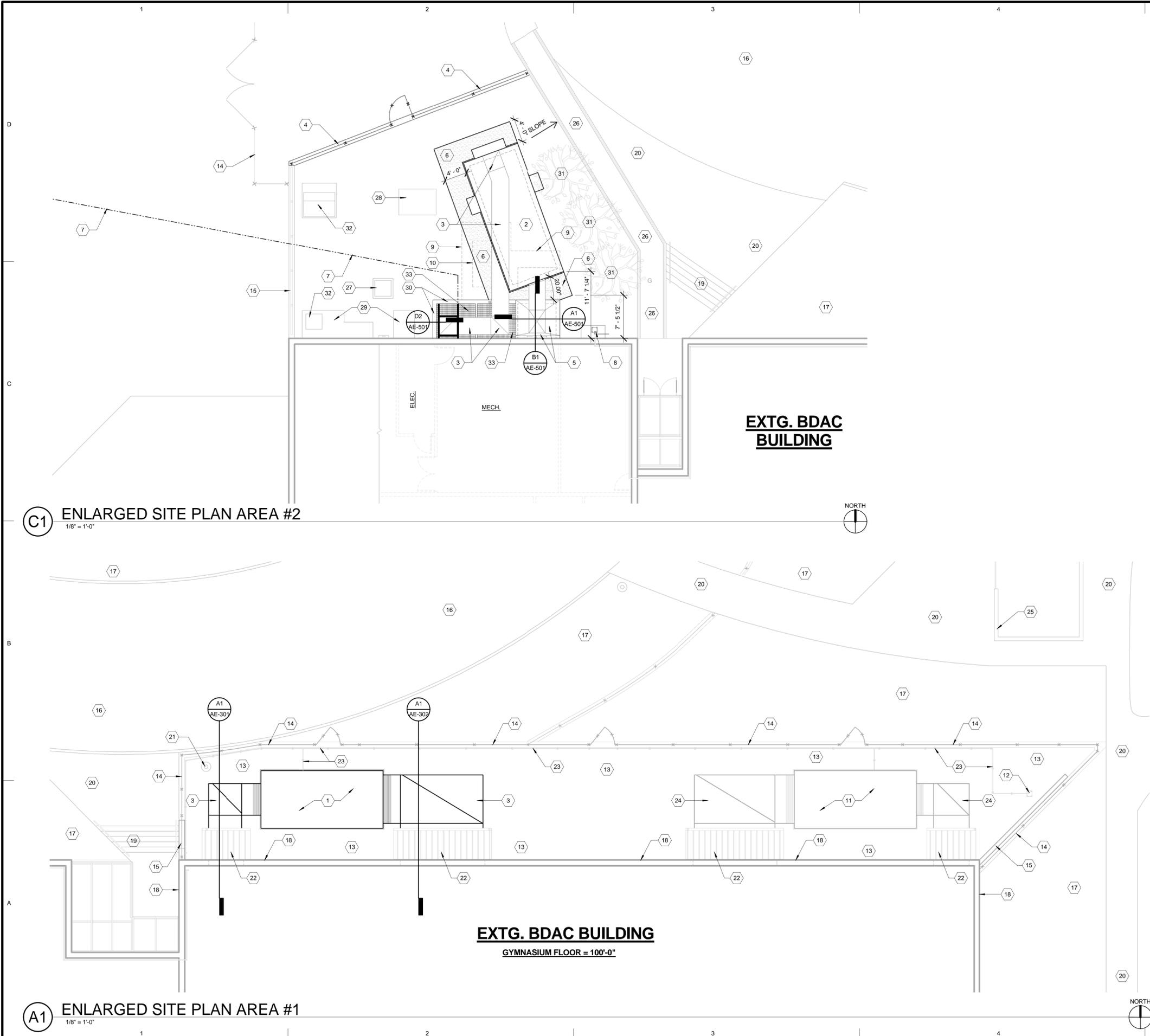
SHEET NUMBER:  
**AS-102**

**KEYED NOTES**

- 1 NEW MECHANICAL UNIT ON EXTG. CONCRETE HOUSE KEEPER PAD - SEE MECHANICAL DRAWINGS & DETAILS INDICATED.
- 2 NEW MECHANICAL UNIT ON SPECIAL STRUCTURAL CONCRETE HOUSE KEEPER PAD - SEE STRUCTURAL DRAWINGS - SEE MECHANICAL DRAWINGS.
- 3 NEW MECHANICAL DUCTS - REFER TO MECHANICAL DRAWINGS - REFER FOR EXACT LOCATION & SIZE ALSO REFER TO DETAIL D3/AE-502.
- 4 NEW CHAIN LINK FENCE MATCH HEIGHT OF EXTG. WITH 4' WIDE CHAIN LINK FENCE GATE AS SHOWN - PROVIDE 12" WIDE CONCRETE MOW STRIP - REFER TO DETAIL A1/AE-501.
- 5 NEW SHEET METAL FLASHING AROUND NEW DUCT - WELD CORNERS OF SHEET METAL AS REQUIRED - REFER TO DETAIL INDICATED.
- 6 NEW 4" CONCRETE SLAB ON 4" DRAINAGE FILL.
- 7 APPROXIMATE LOCATION EXTG. STEAM & CONDENSATE LINE TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 8 REMOVE EXTG. GAS METER - REFER TO MECHANICAL DRAWINGS.
- 9 REMOVE EXTG. CONCRETE PAD AS REQUIRED.
- 10 REMOVE EXTG. MECHANICAL UNIT - SEE MECHANICAL DRAWINGS.
- 11 EXTG. MECHANICAL UNIT TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 12 EXTG. GAS METER TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 13 EXTG. CONCRETE SLAB TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 14 EXTG. CHAIN LINK FENCE & MOW STRIP TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 15 EXTG. CONCRETE RETAINING WALL TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 16 EXTG. TRACK TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 17 EXTG. LANDSCAPING TO REMAIN PROTECT & RESTORE AS REQD.
- 18 EXTG. FACE OF BUILDING - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 19 EXTG. STAIRS TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 20 EXTG. CONCRETE SIDEWALK TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 21 EXTG. EXTERIOR LIGHT POLE TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 22 EXTG. METAL CANOPY ROOF TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 23 EXTG. GAS LINE TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 24 EXTG. MECHANICAL DUCTS TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 25 EXTG. STRUCTURE - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 26 EXTG. CONCRETE RAMP & GUARD RAILS TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 27 EXTG. ELECTRICAL MAN HOLE TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 28 EXTG. ELECTRICAL TRANSFORMER TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 29 EXTG. CONCRETE PAD TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 30 EXTG. CONCRETE MECHANICAL WELL TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 31 EXTG. TREES TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 32 EXTG. ELECTRICAL UNITS TO REMAIN - PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 33 EXTG. STEEL GRATE OVER WELL TO BE MODIFIED PER DETAILS INDICATED.

**GENERAL NOTES**

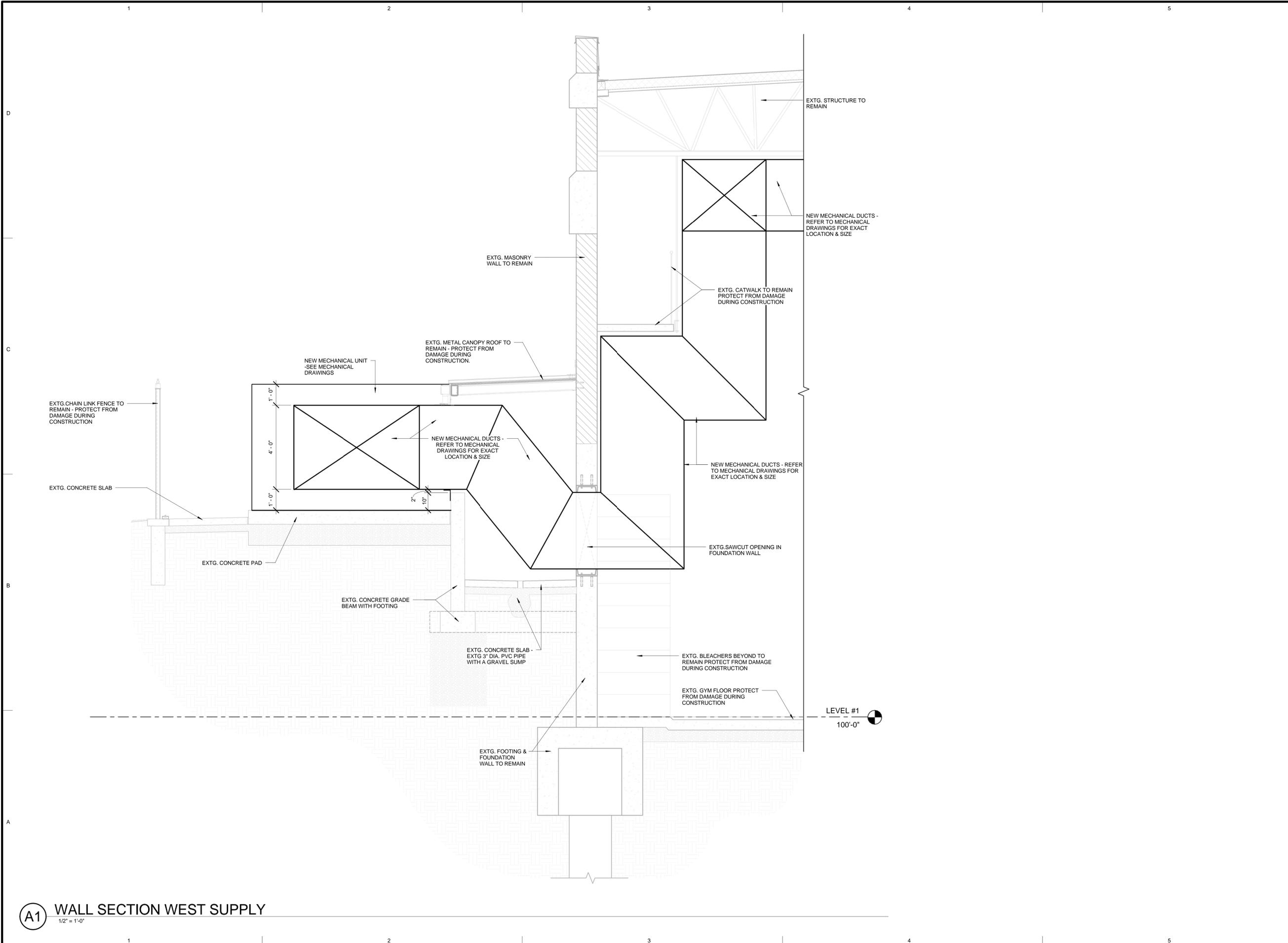
1. **ALL GAS LINE UTILITY RELOCATION WORK MUST BE COMPLETED BEFORE ANY OTHER WORK IS BEGUN. SHUT DOWN OF EXISTING GAS LINES IS TO BE KEPT TO A MINIMUM AMOUNT OF TIME. A 48 HOUR NOTICE MUST BE GIVEN TO OWNER PRIOR TO DISCONNECTING THE UTILITY.**
2. REMOVE EXTG. IRRIGATION SYSTEM IN AREA OF CONSTRUCTION.
3. ALL DIMENSIONS NEED TO BE FIELD VERIFIED.
4. ALL NEW WOOD THAT COMES IN CONTACT WITH CONCRETE OF MASONRY SHALL BE PRESERVATIVE TREATED.
5. PROTECT ALL EXISTING IMPROVEMENTS INCLUDING LANDSCAPING, SPRINKLING SYSTEMS, SIDEWALKS, PARKING AREAS, SURROUNDING ROOFS ETC. - ANY DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPAIRED TO ORIGINAL OR BETTER THAN ORIGINAL CONDITION (TO THE SATISFACTION OF THE OWNER AND ARCHITECT).
6. SALVAGE SPRINKLERS HEADS TO OWNER.
7. STOCK PILE 6" TOP SOIL FOR OWNER TO PICK UP & USE.
8. ALL EXCESS EXCAVATED EARTH CAN BE DISPOSED OF ON CEU CAMPUS - HAUL TO LOCATION AS DIRECTED BY OWNER.



**C1** ENLARGED SITE PLAN AREA #2  
1/8" = 1'-0"

**A1** ENLARGED SITE PLAN AREA #1  
1/8" = 1'-0"

Last Plotted: 2/12/2008 10:30:37 AM



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MECHANICAL ENGINEER  
VIRA CONSULTING  
ELECTRICAL ENGINEER  
SPECTRUM ENGINEERS  
MECHANICAL ENGINEER  
SPECTRUM ENGINEERS

PROJECT NAME:  
**COLLEGE OF EASTERN UTAH  
BUNNEL-DMITRICH  
ATHLETIC CENTER  
HVAC UPGRADE - PHASE II**  
451 EAST 400 NORTH  
PRICE, UTAH 84601

REVISIONS:

NO.	DATE	DESCRIPTION

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NO.	DATE	DESCRIPTION
01	02/18/08	CONSTRUCTION DOCUMENTS

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SPE PROJECT #: 06-35A  
DRAWN BY: JBE  
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DESIGNED BY: SPE

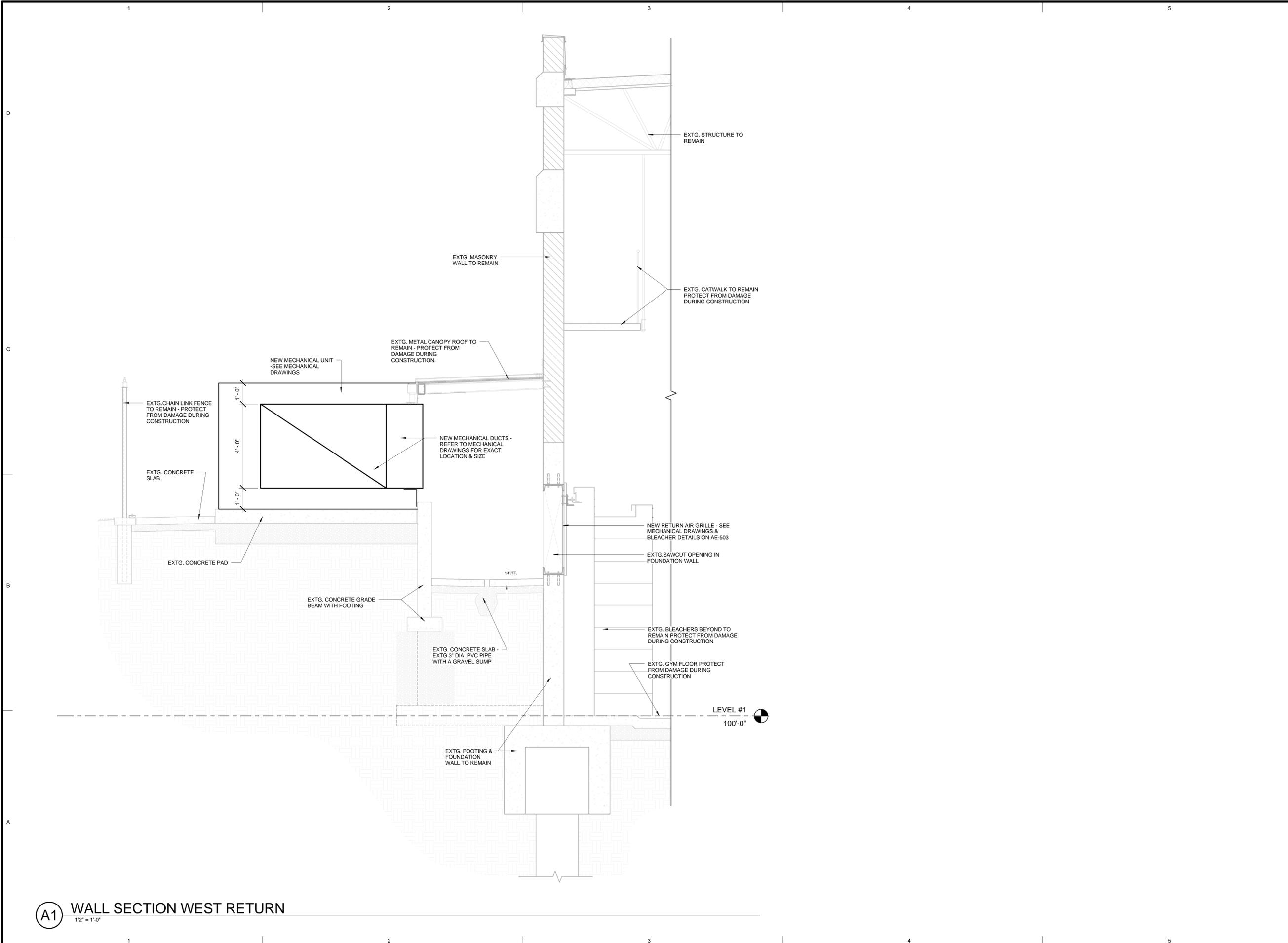
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SHEET TITLE:  
**WALL SECTION**

SHEET NUMBER:  
**AE-301**

**A1 WALL SECTION WEST SUPPLY**  
1/2" = 1'-0"

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MECHANICAL ENGINEER  
VIRA CONSULTING  
ELECTRICAL ENGINEER  
SPECTRUM ENGINEERS  
ARCHITECT

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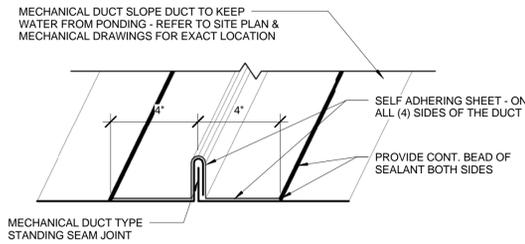
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SHEET TITLE:  
**WALL SECTION**

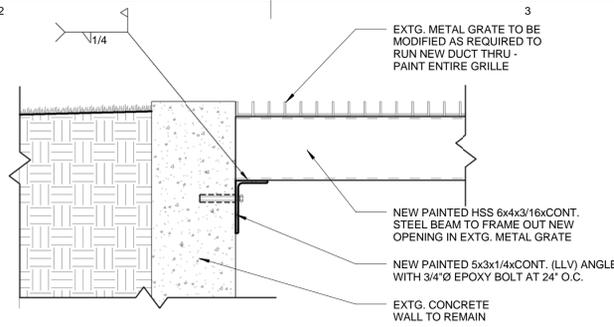
SHEET NUMBER:  
**AE-302**

**A1 WALL SECTION WEST RETURN**  
1/2" = 1'-0"

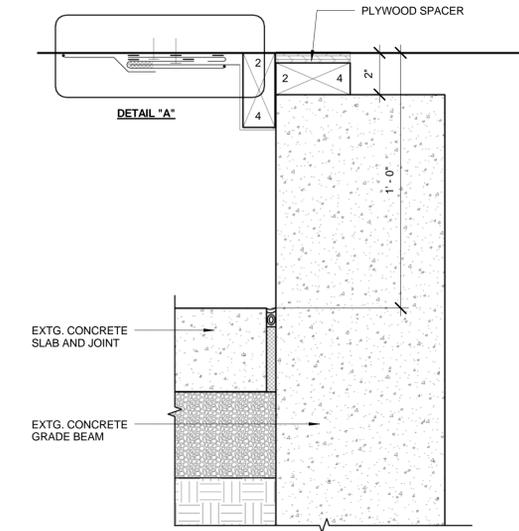
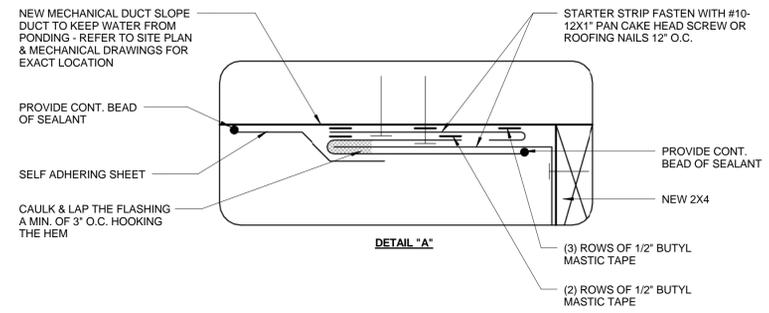
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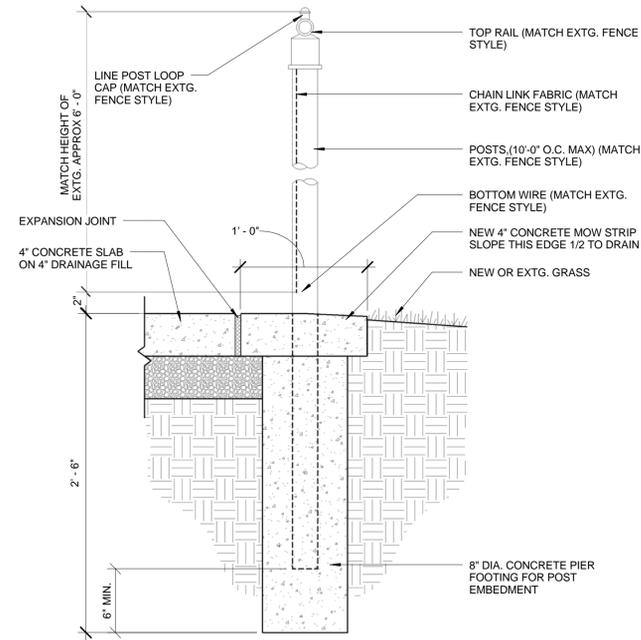
**D1** METAL DUCT TYP. JOINT DETAIL  
3' = 1'-0"



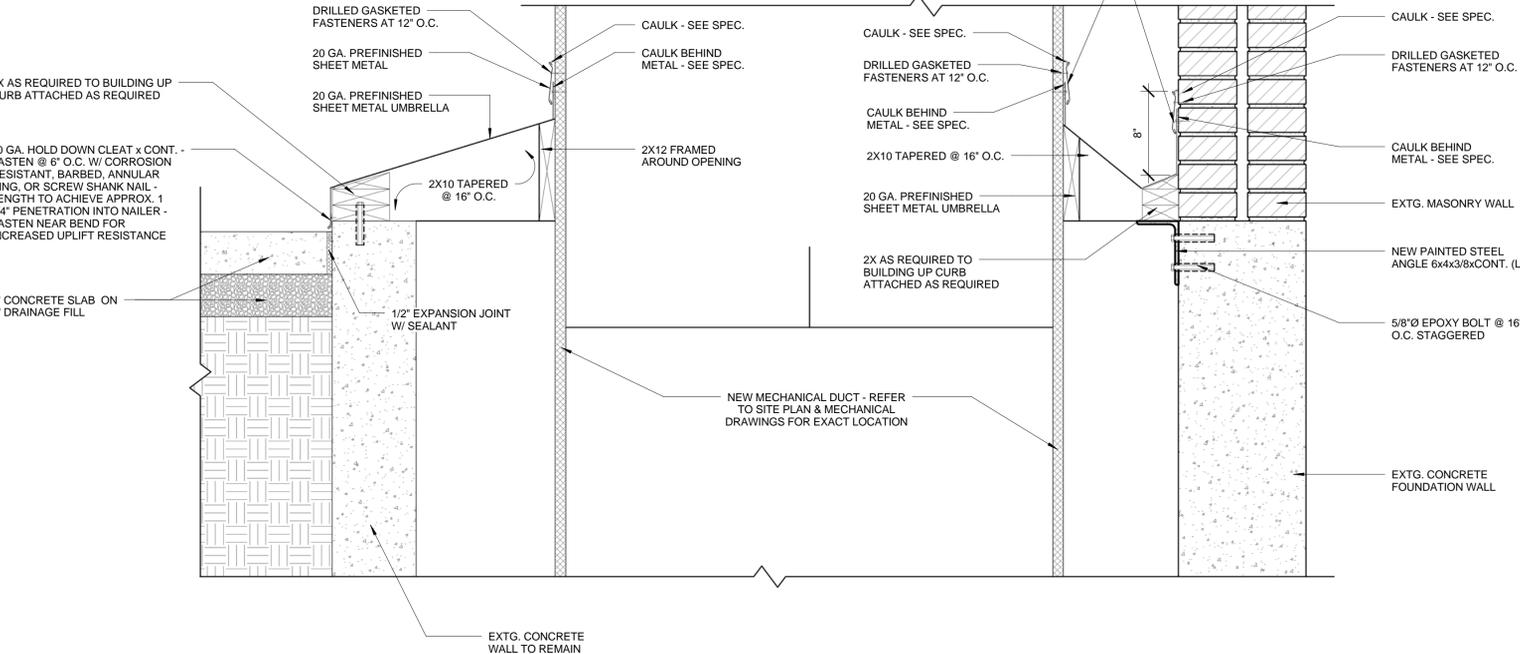
**D2** STEEL GRATE DETAIL  
1 1/2' = 1'-0"



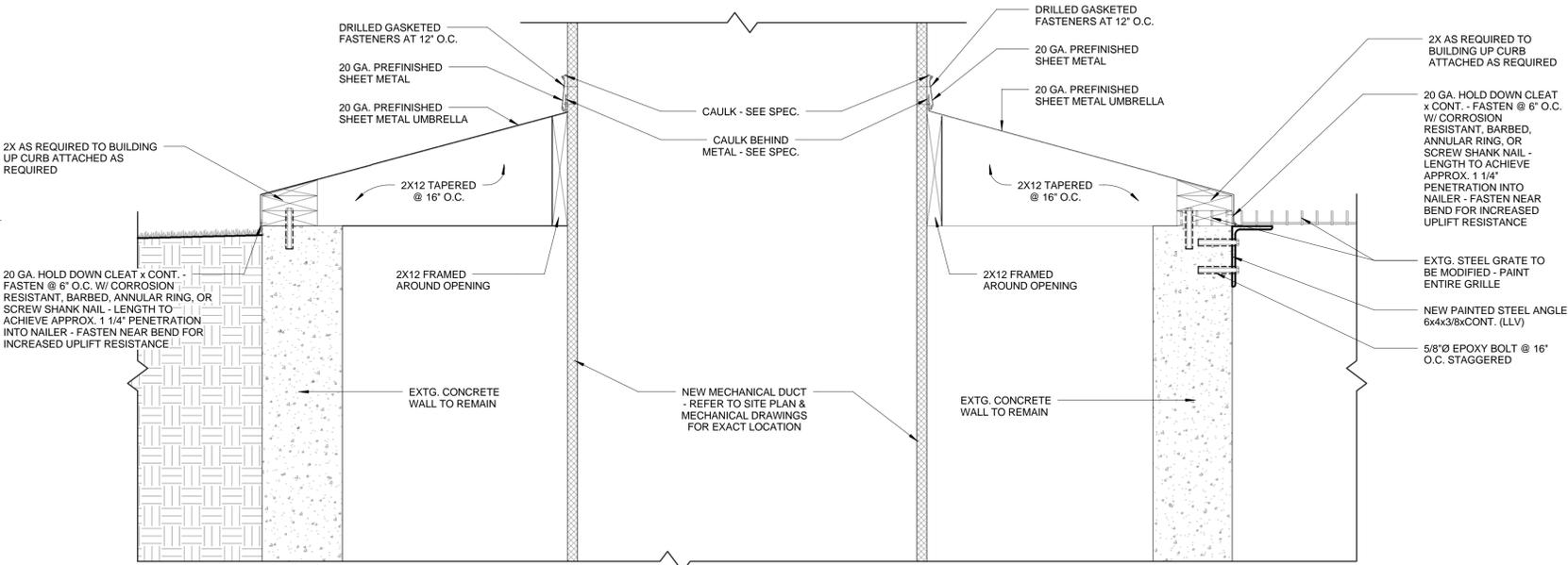
**B4** DUCT DETAIL  
3' = 1'-0"



**A4** CHAIN LINK FENCE DETAIL  
1 1/2' = 1'-0"



**B1** MECHANICAL DUCT DETAIL  
1 1/2' = 1'-0"



**A1** MECHANICAL DUCT DETAIL  
1 1/2' = 1'-0"

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PROFESSIONAL STAMP:

CONSULTANTS:

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- Mechanical Engineering
- MECHANICAL ENGINEER
- VIBRA CONSULTING
- ELECTRICAL ENGINEER
- SPECTRUM ENGINEERS

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HVAC UPGRADE - PHASE II**

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REVISIONS:

NO.	DATE	DESCRIPTION
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SHEET TITLE  
**DETAILS**

SHEET NUMBER:  
**AE-501**

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LEGEND OF MECHANICAL SYMBOLS AND ABBREVIATIONS

MECHANICAL

	POSITIVE PRESSURE DUCT - RISE
	POSITIVE PRESSURE DUCT - DROP
	NEGATIVE PRESSURE DUCT - RISE
	NEGATIVE PRESSURE DUCT - DROP
	ROUND DUCT - RISE
	ROUND DUCT - DROP
	UNDER FLOOR DUCT
	TURNING VANES
	FRESH AIR LOUVER
	RELIEF AIR OR EXHAUST AIR LOUVER
	CEILING SUPPLY DIFFUSER
	CEILING RETURN REGISTER
	CEILING EXHAUST REGISTER, (BALANCE TO MATCH SUPPLY IF RETURN CFM IS NOT SHOWN)
	SIDEWALL SUPPLY REGISTER
	SIDEWALL EXHAUST OR RETURN REGISTER
	CEILING SUPPLY DIFFUSER WITH FLEXIBLE DUCT
	CEILING AIR GRILLE WITH FLEXIBLE DUCT
	CEILING RETURN AIR GRILLE W/ SOUND BOOT
	LINEAR DIFFUSER WITH PLENUM AND FLEXIBLE DUCT CONNECTION. NO. OF SLOTS & SIZE OF SLOT ON TOP, ACTIVE LENGTH AND CFM ON BOTTOM
	FLEXIBLE DUCT CONNECTION
	FLEXIBLE DUCT
	FAN
	FLAT OVAL DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
	RECTANGULAR DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
	ROUND DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
	INCLINED RISE
	INCLINED DROP
	R/W=1. ROUND DUCT SIMILAR TO RECTANGULAR
	RECTANGULAR TO ROUND DUCT TRANSFORMATION. MAXIMUM 15' INCLUDED ANGLE EXCEPT WHERE SHOWN OTHERWISE.
	BRANCH DUCT SPLIT WITH 6" WIDTH AND MIN. R=WIDTH OF BRANCH DUCT DOWNSTREAM. ELBOW TURNING VANE OPTIONAL.
	TAP ENTRY AREA EQUALS 150% OF BRANCH AREA
	HIGH EFFICIENCY FITTING
	MANUAL VOLUME DAMPER
	FIRE DAMPER IN DUCT, W/ ACCESS PANEL REQD.
	COMBINATION FIRE/SMOKE DAMPER W/ ACCESS PANEL
	SMOKE DAMPER W/ ACCESS PANEL
	BACK DRAFT DAMPER
	ATC DAMPER
	ACCESS PANEL IN DUCT OR PLENUM
	HEATING OR COOLING COIL IN DUCT
	SINGLE DUCT AIR TERMINAL BOX VARIABLE OR CONSTANT VOLUME. MIN. 1-1/2" TERMINAL INLET SIZE STRAIGHT DUCT AT TERMINAL INLET.
	4-WAY BLOW PATTERN
	3-WAY BLOW PATTERN
	2-WAY BLOW PATTERN
	2-WAY BLOW PATTERN
	1-WAY BLOW PATTERN
	DUCT SMOKE DETECTOR
	UNIT HEATER

PLUMBING

	FLOOR SINK
	FLOOR DRAIN
	FLOOR CLEAN-OUT OR CLEAN-OUT TO GRADE
	ROOF DRAIN
	DOWNSPOUT NOZZLE
	ARROW INDICATES DIRECTION OF FLOW IN PIPE
	CHECK VALVE
	PRESSURE REDUCING, EXTERNAL PRESSURE VALVE
	PRESSURE REDUCING, SELF CONTAINED VALVE
	ATC VALVE - 2 WAY
	ATC VALVE - 3 WAY
	SOLENOID VALVE
	GATE VALVE
	GATE VALVE - NON RISING STEM
	GLOBE VALVE
	TEMPERATURE AND PRESSURE TEST PORT
	PRESSURE SWITCH
	LUBRICATED PLUG VALVE
	CALIBRATED BALANCING VALVE WITH GPM INDICATED
	FLOW CONTROL VALVE
	BRANCH - BOTTOM CONNECTION
	BRANCH - TOP CONNECTION
	BRANCH - SIDE CONNECTION
	RISE OR DROP
	RISE - DOWN (ELBOW)
	RISE - DOWN (ELBOW)
	VENT THRU ROOF
	WATER HAMMER ARRESTOR
	INLINE PUMP
	INLINE PUMP
	CLEAN-OUT
	RELIEF VALVE
	ANGLE VALVE
	FLOW METER
	UNION
	GAS COCK
	SHUT-OFF COCK FOR USE WITH PRESSURE GAUGE
	FLEXIBLE EXPANSION JOINT
	THERMOMETER - TEMP RANGE AS INDICATED
	PRESSURE GAUGE WITH SHUT-OFF COCK
	PRESSURE GAUGE WITH PIGTAIL
	LATERAL STRAINER WITH BLOW-OFF VALVE. PROVIDE HOSE END WITH CAP WHERE DISCHARGE IS NOT PIPED TO DRAIN
	BALL VALVE (PIPE SIZES 2" AND SMALLER)
	BUTTERFLY VALVE (PIPE SIZES 2-1/2" AND LARGER)
	MOTOR OPERATED BUTTERFLY VALVE
	VALVE IN RISE
	AIR VENT-MANUAL
	AIR VENT-AUTO
	FLOW SWITCH
	REDUCER
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER

PLUMBING CONT.

	HOSE BIBB
	PIPE CAP
	SWITCH
	SENSOR
	THERMOSTAT
	NIGHT THERMOSTAT
	FILL PORT
	DRAIN PAN AND P-TRAP
	FIXTURE FROM LEVEL ABOVE
	FLOW METER ORIFICE
	FLANGE
	90° ELBOW
	45° ELBOW
	STEAM TRAP, F&T=FLOAT & THERMOSTATIC B=BUCKET, T=THERMOSTATIC
	LEADER INDICATES DOWNWARD SLOPE
	DEMOLITION
	ALIGNMENT GUIDE
	AHCHOR

SYMBOLS

	PLUMBING FIXTURES
	POINT OF CONNECTION
	SECTION TAG - TOP FIGURE IS SECTION NO. BOTTOM FIGURE IS SHEET NO.
	DETAIL TAG - TOP FIGURE IS DETAIL NO. BOTTOM FIGURE IS SHEET NO.
	EQUIPMENT IDENTIFICATION
	KEYED NOTE IDENTIFICATION

FIRE

	HOSE VALVE
	NRS GATE VALVE WITH SUPERVISION
	FLOW SWITCH
	FIRE RISER
	SPRINKLER HEAD
	FIRE SPRINKLER WATER

LINETYPES

	ACID VENT
	ACID WASTE
	BOILER BLOW DOWN
	BOILER FEED WATER
	BRINE
	CARBON DIOXIDE
	COMPRESSED AIR
	CHEMICAL FEED
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	CONDENSER WATER SUPPLY
	CONDENSER WATER RETURN
	DOMESTIC COLD WATER (DCW)
	DOMESTIC HOT WATER (DHW)
	DOMESTIC HOT WATER RETURN (DHW-R)
	DEIONIZED WATER SUPPLY
	DEIONIZED WATER RETURN
	EXISTING PIPING
	EXISTING PIPING TO BE REMOVED
	GLYCOL HEAT RECOVERY PIPING
	GLYCOL PIPING SOLUTION
	FUEL OIL RETURN
	FUEL OIL SUPPLY
	FUEL OIL VENT
	NATURAL GAS
	HOT GAS
	HELICOPTER FUEL RETURN
	HELICOPTER FUEL SUPPLY
	HIGH PRESSURE DOMESTIC WATER
	HIGH PRESSURE CONDENSATE
	HIGH PRESSURE STEAM
	HEATING HOT WATER RETURN
	HEATING HOT WATER SUPPLY
	INSTRUMENT AIR
	INSTRUMENT AIR AT PRESSURE INDICATED
	LAB AIR
	LAB VACUUM
	LOW PRESSURE CONDENSATE
	LIQUIFIED PETROLEUM GAS
	LOW PRESSURE STEAM
	MEDICAL AIR
	MEDICAL AIR AT PRESSURE INDICATED
	MEDIUM PRESSURE CONDENSATE
	MEDIUM PRESSURE STEAM
	MAKE UP WATER
	MEDICAL VACUUM
	NITROGEN
	NITROUS OXIDE
	MEDICAL OXYGEN
	MEDICAL OXYGEN AT PRESSURE INDICATED
	PUMPED CONDENSATE

LINETYPES CONT.

	REVERSE OSMOSIS WATER SUPPLY
	REVERSE OSMOSIS WATER RETURN
	ROOF DRAIN
	ROOF DRAIN OVERFLOW
	REFRIGERANT LIQUID
	REFRIGERANT SUCTION
	SEWER (BELOW GRADE)
	SEWER (ABOVE GRADE)
	SOFT DOMESTIC WATER (SW)
	VACUUM
	VENT (SEWER)

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SPE PROJECT #:

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SHEET TITLE:

LEGEND OF MECHANICAL SYMBOLS AND ABBREVIATIONS

SHEET NUMBER:

M-001





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SPE PROJECT # 08-35A

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SHEET TITLE:

**LEVEL #1  
AREA #1  
MECHANICAL  
DEMOLITION PLAN**

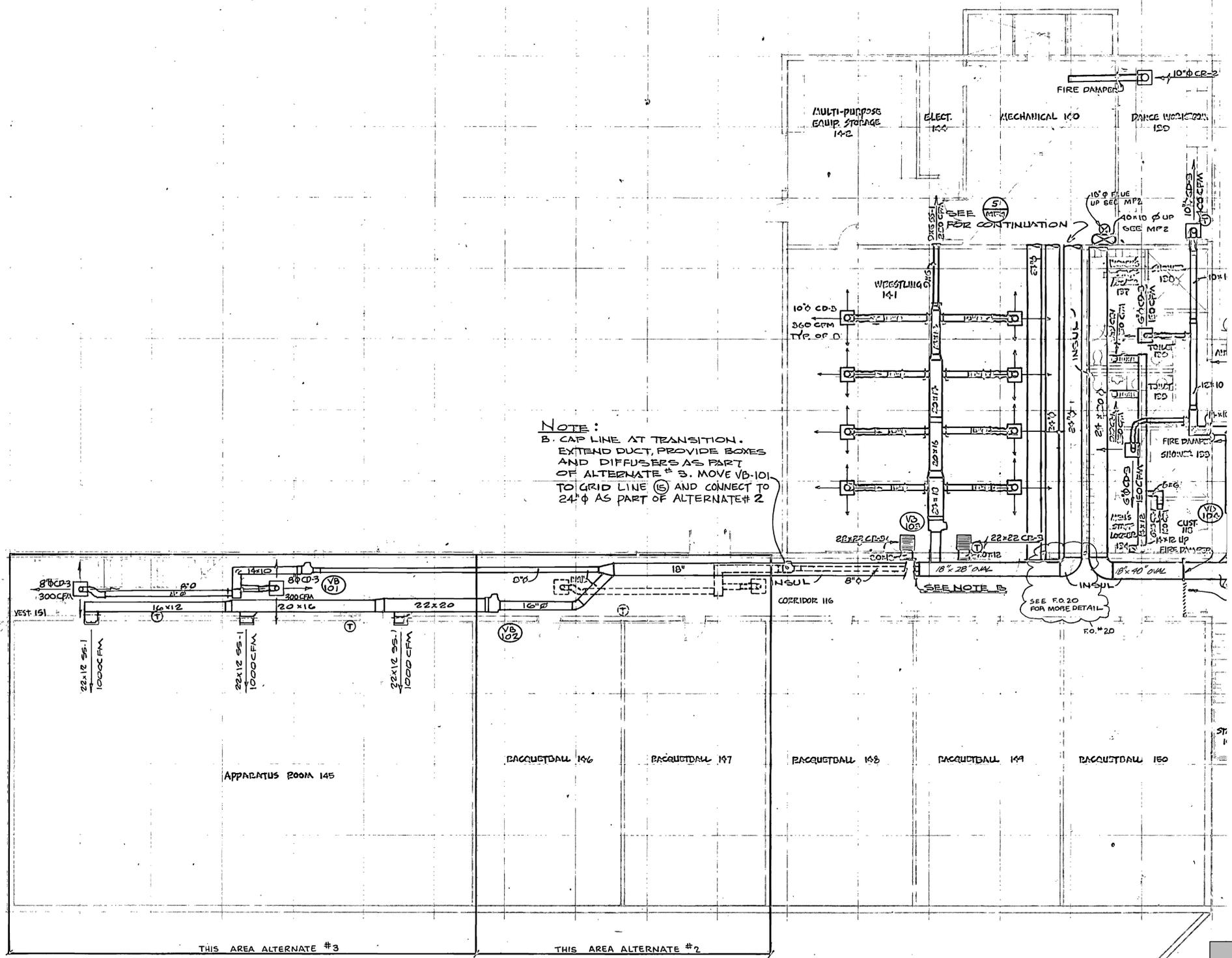
SHEET NUMBER:

**MP-1.1**

**GENERAL NOTES**

- CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS.
- IF ANY CONFLICTS OR DISCREPANCIES ARE DISCOVERED, THE CONTRACTOR SHALL IMMEDIATELY BRING IT TO THE ENGINEER'S ATTENTION.
- CONTRACTOR SHALL NOT PURCHASE, FABRICATE, ORDER, ETC. ANY MATERIALS, EQUIPMENT, ACCESSORIES UNTIL ITEM 1 AND 2 ARE SATISFIED.
- RECOMMISSION ALL VAV BOXES (SHOWN AS "VB" ON PLAN) AND RECALIBRATE SETTINGS.
- AS PART OF PHASE 2 WORK THE CONTRACTOR SHALL SURVEY ALL EXISTING BRANCH DIFFUSER AND REGISTER DUCT CONNECTIONS. THE CONTRACTOR SHALL REPAIR EACH BRANCH DUCT THAT IS IN DISREPAIR, DISCONNECTED, DAMAGED OR OTHERWISE NOT FUNCTIONAL. PROVIDE UNIT COSTS IN BID FORM FOR REPLACING EACH BRANCH DUCT AS NEEDED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING, AND REWORK REQUIRED FOR THIS SCOPE OF WORK.
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- THIS DRAWING IS A SCANNED IMAGE OF THE ORIGINAL DRAWING. INFORMATION ON SCANNED IMAGE IS FOR REFERENCE ONLY. THE INFORMATION INCLUDES ORIGINAL SCHEDULES, NOTES, SIZES, ETC.

**NOTE:**  
B. CAP LINE AT TRANSITION.  
EXTEND DUCT, PROVIDE BOXES  
AND DIFFUSERS AS PART  
OF ALTERNATE # 3. MOVE VB-101  
TO GRID LINE (16) AND CONNECT TO  
24" φ AS PART OF ALTERNATE # 2



**(A1) LEVEL #1 AREA #1 MECHANICAL PLAN**  
1/8" = 1'-0"

**(A5) KEYPLAN**  
1" = 80'-0"

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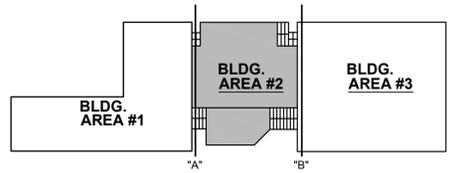
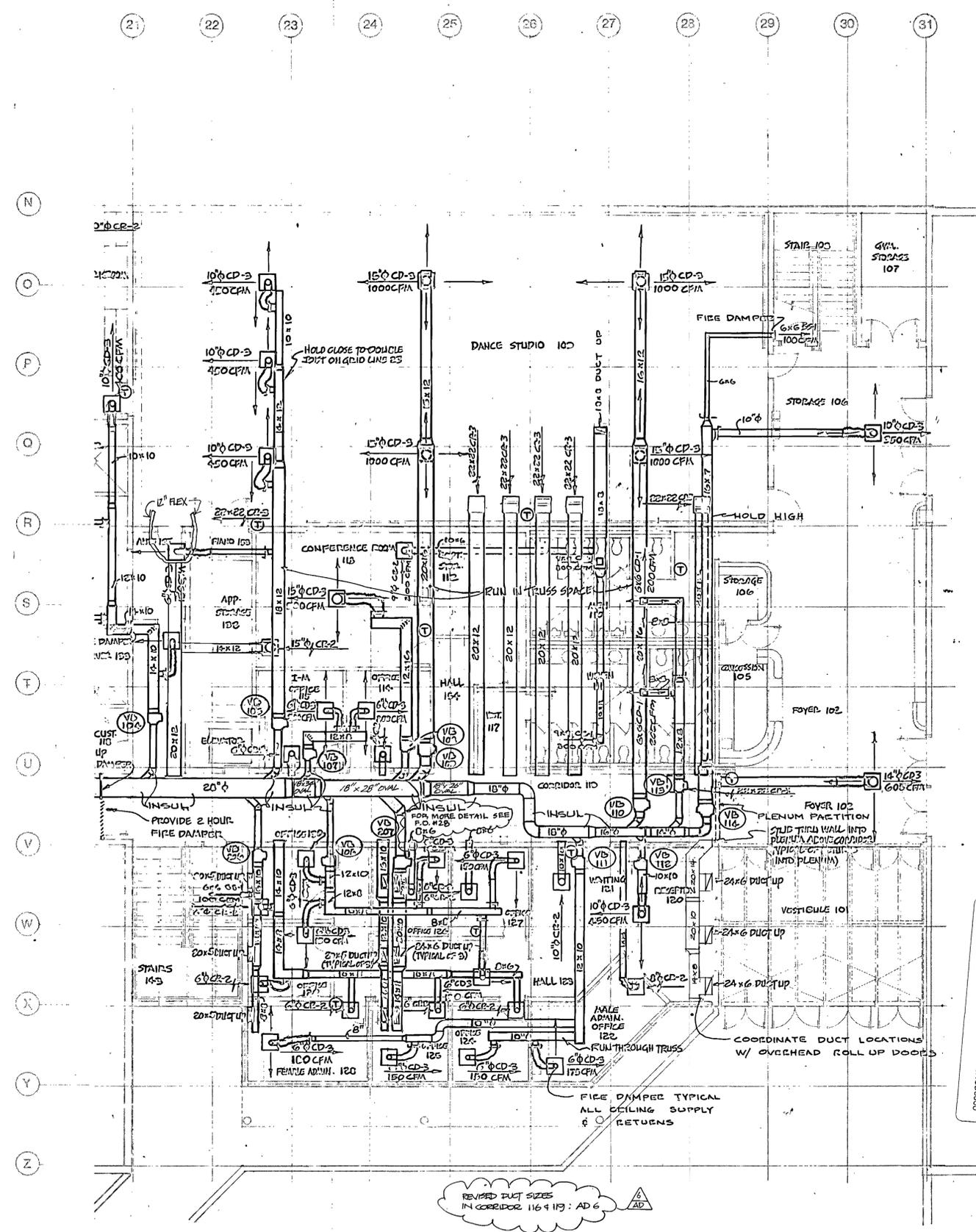
SHEET TITLE:

LEVEL #1  
AREA #2  
MECHANICAL  
DEMOLITION PLAN

SHEET NUMBER:  
MP-1.2

### GENERAL NOTES

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- IF ANY CONFLICTS OR DISCREPANCIES ARE DISCOVERED, THE CONTRACTOR SHALL IMMEDIATELY BRING IT TO THE ENGINEERS ATTENTION.
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**A1** LEVEL #1 AREA #2 MECHANICAL PLAN  
1/8" = 1'-0"

**A5** KEYPLAN  
1" = 80'-0"

Plot Date: 1/24/2008 9:56:59 AM



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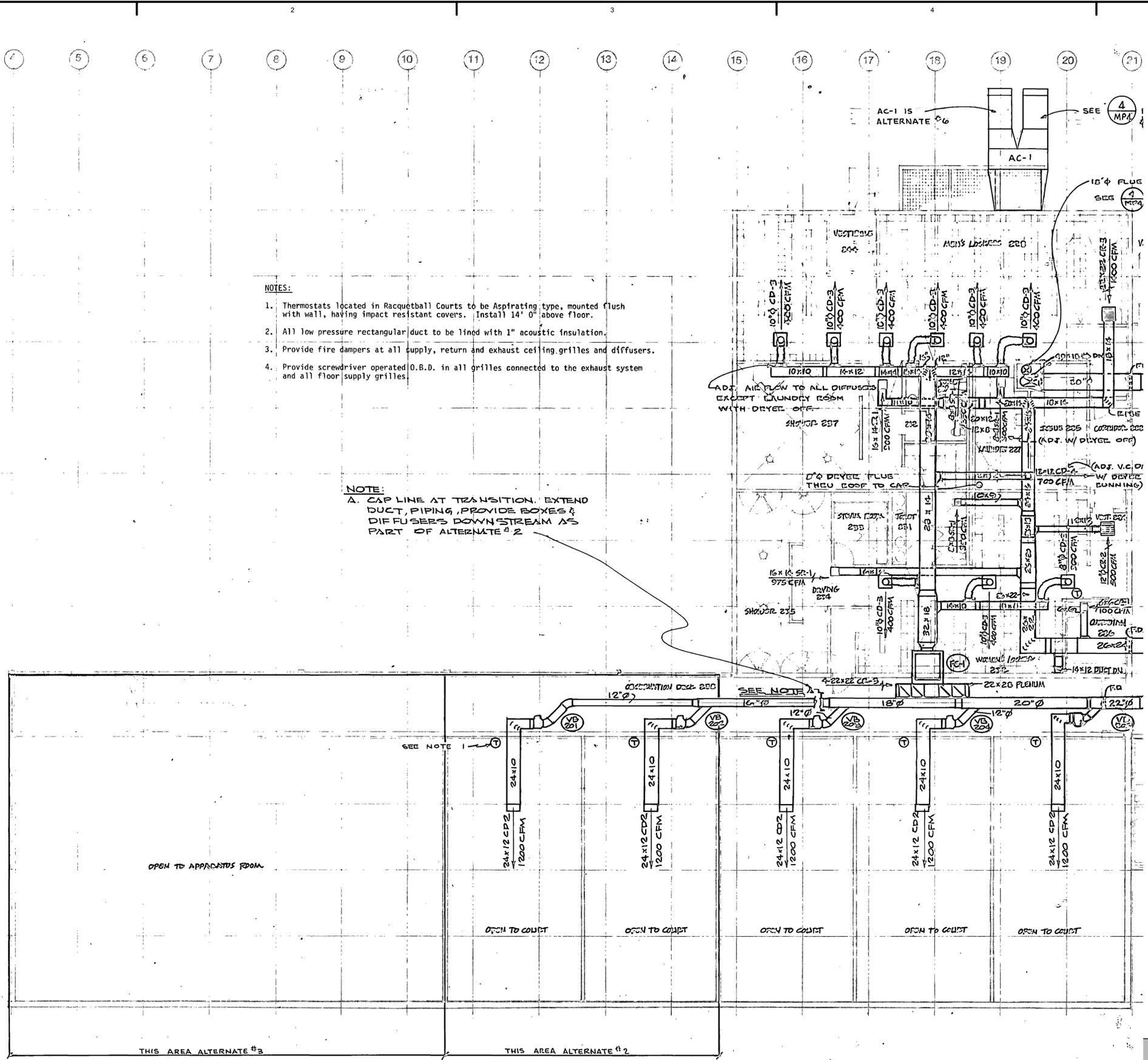
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SHEET TITLE:  
LEVEL #2  
AREA #1  
MECHANICAL  
DEMOLITION PLAN  
SHEET NUMBER:  
MP-2.1

### GENERAL NOTES

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- RENOVATE FC-1. PROVIDE NEW MOTORS, BELTS, COILS, ETC., TO MAKE UNIT OPERATIONAL. SEE SPECIFICATIONS.
- REBALANCE FAN COIL UNIT AND ASSOCIATED EXHAUST FAN SYSTEMS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING, AND REWORK REQUIRED FOR THIS SCOPE OF WORK.
- EXISTING DUCTWORK SIZING AND ROUTING HAS BEEN TAKEN FROM EXISTING DRAWINGS PROVIDED BY OTHERS AND IS CONSIDERED TO BE SCHEMATIC AND APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT SIZE AND LOCATION OF ALL DUCTWORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCING WORK.
- THE CONTRACTOR SHALL CAREFULLY COORDINATE ALL PHASES OF WORK WITH THE BUILDING OWNER'S REPRESENTATIVE. CAREFUL PLANNING AND SCHEDULING OF WORK SHALL BE DONE IN ADVANCE TO ENSURE THAT ALL SURROUNDING AREAS REMAIN OPERATIONAL AS NECESSARY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDE ALL CAPS, TERMINATION ETC. REQUIRED TO COMPLETE THE WORK. ADDITIONALLY, ITEMS REQUIRED FOR SEQUENCING OF THE WORK SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- THE CONTRACTOR SHALL FIELD COORDINATE DUST AND NOISE CONTROL DURING ALL PHASES OF WORK. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY VENTILATION AND DUST BARRIERS REQUIRED.
- THIS DRAWING IS A SCANNED IMAGE OF THE ORIGINAL DRAWING. INFORMATION ON SCANNED IMAGE IS FOR REFERENCE ONLY. THE INFORMATION INCLUDES ORIGINAL SCHEDULES, NOTES, SIZES, ETC.



#### NOTES:

- Thermostats located in Racquetball Courts to be Aspirating type, mounted flush with wall, having impact resistant covers. Install 14" 0" above floor.
- All low pressure rectangular duct to be lined with 1" acoustic insulation.
- Provide fire dampers at all supply, return and exhaust ceiling grilles and diffusers.
- Provide screwdriver operated O.B.D. in all grilles connected to the exhaust system and all floor supply grilles.

NOTE:  
A. CAP LINE AT TRANSITION. EXTEND DUCT, PIPING, PROVIDE BOXES & DIFFUSERS DOWNSTREAM AS PART OF ALTERNATE #2

**A1** LEVEL #2 AREA #1 MECHANICAL PLAN  
1/16" = 1'-0"

**A5** KEYPLAN  
1" = 80'-0"



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HVAC UPGRADE - PHASE II  
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PRICE, UTAH 84601

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SPE PROJECT # 08-35A

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CHECKED BY: RGR

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SHEET TITLE:

LEVEL #2

AREA #2

MECHANICAL

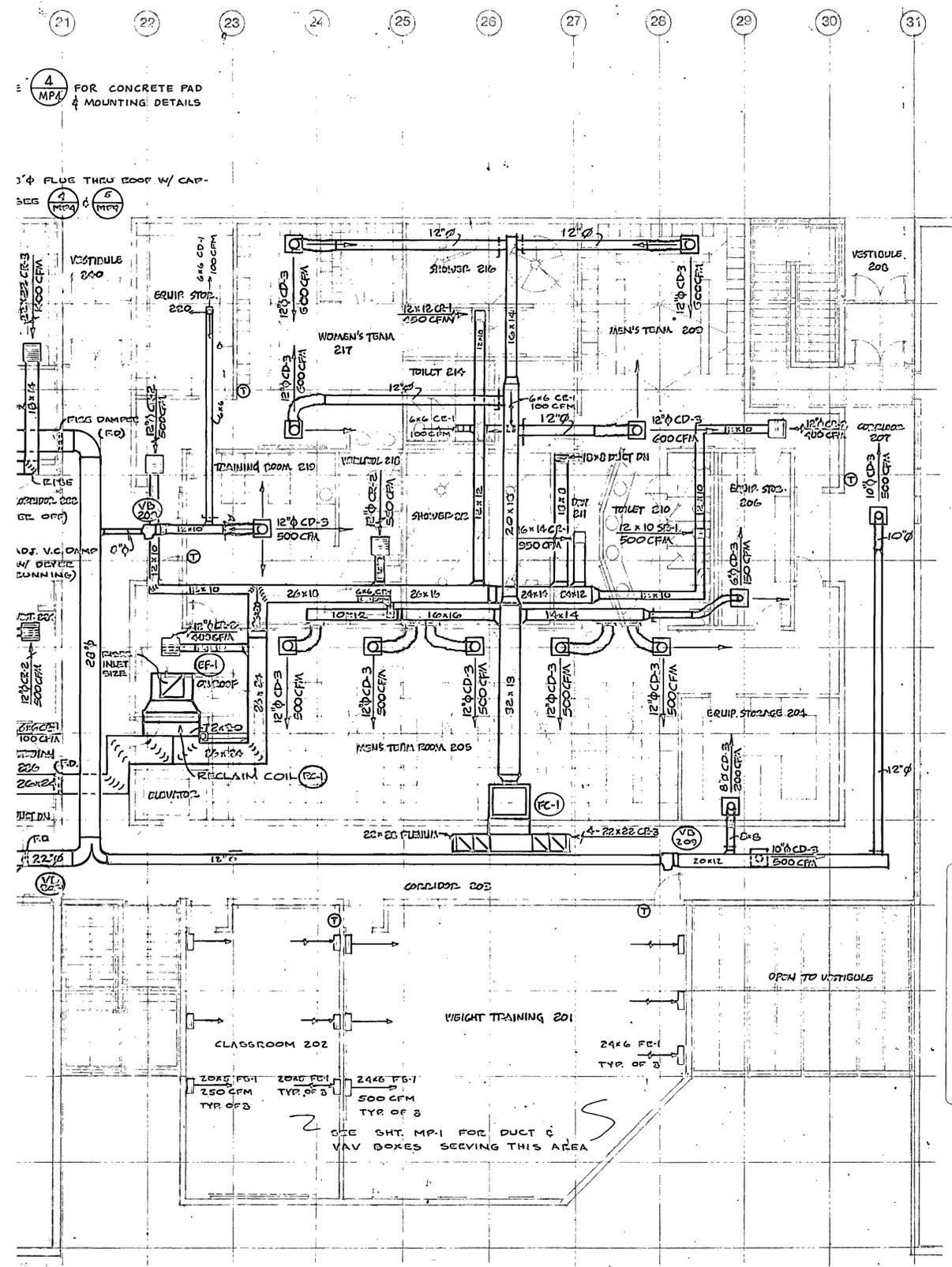
DEMOLITION PLAN

SHEET NUMBER:

MP-2.2

### GENERAL NOTES

- CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS.
- IF ANY CONFLICTS OR DISCREPANCIES ARE DISCOVERED, THE CONTRACTOR SHALL IMMEDIATELY BRING IT TO THE ENGINEER'S ATTENTION.
- CONTRACTOR SHALL NOT PURCHASE, FABRICATE, ORDER, ETC. ANY MATERIALS, EQUIPMENT, ACCESSORIES UNTIL ITEM 1 AND 2 ARE SATISFIED.
- RECOMMISSION ALL VAV BOXES (SHOWN AS "VB" ON PLAN) AND RECALIBRATE SETTINGS.
- AS PART OF PHASE 2 WORK THE CONTRACTOR SHALL SURVEY ALL EXISTING BRANCH DIFFUSER AND REGISTER DUCT CONNECTIONS. THE CONTRACTOR SHALL REPAIR EACH BRANCH DUCT THAT IS IN DISREPAIR, DISCONNECTED, DAMAGED OR OTHERWISE NOT FUNCTIONAL. PROVIDE UNIT COSTS IN BID FORM FOR REPLACING EACH BRANCH DUCT AS NEEDED.
- RENOVATE FC-1. PROVIDE NEW MOTORS, BELTS, COILS, ETC., TO MAKE UNIT OPERATIONAL. SEE SPECIFICATIONS.
- REBALANCE FAN COIL UNIT AND ASSOCIATED EXHAUST FAN SYSTEMS
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING, AND REWORK REQUIRED FOR THIS SCOPE OF WORK.
- EXISTING DUCTWORK SIZING AND ROUTING HAS BEEN TAKEN FROM EXISTING DRAWINGS PROVIDED BY OTHERS AND IS CONSIDERED TO BE SCHEMATIC AND APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT SIZE AND LOCATION OF ALL DUCTWORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCING WORK.
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**A1** LEVEL #2 AREA #2 MECHANICAL PLAN  
1/16" = 1'-0"

**A5** KEYPLAN  
1" = 80'-0"

**GENERAL NOTES**

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS.
2. IF ANY CONFLICTS OR DISCREPANCIES ARE DISCOVERED, THE CONTRACTOR SHALL IMMEDIATELY BRING IT TO THE ENGINEERS ATTENTION.
3. CONTRACTOR SHALL NOT PURCHASE, FABRICATE, ORDER, ETC. ANY MATERIALS, EQUIPMENT, ACCESSORIES UNTIL ITEM 1 AND 2 ARE SATISFIED.
4. GU-2, UNIT HEATERS, AND ATC DAMPERS WERE INCLUDED IN PHASE 1.

**KEYED NOTES**

- 1 PHASE I: INSTALL NEW ATC DAMPERS ON RELIEF HOODS AS ALTERNATE #2. FIELD VERIFY EXACT SIZE AND INSTALLATION REQUIREMENTS.
- 2 RUN DUCT AT BOTTOM OF STRUCTURE.
- 3 HOUSEKEEPING CONCRETE PAD. SEE ARCHITECTURAL AND STRUCTURAL DETAILS.
- 4 PHASE I: REPLACE WITH NEW UNIT HEATER AS ALTERNATE #1. DISCONNECT EXISTING UNIT HEATER FROM PIPING. RECONNECT NEW UNIT HEATER, MODIFYING THE PIPING AS NECESSARY. EXISTING VALVES AND CONTROLS TO REMAIN IN PLACE.
- 5 SEE MECHANICAL SITE PLAN FOR PIPING TO UNITS.
- 6 TRANSITION TO 84/36 IN RISE.
- 7 RISE TO BOTTOM OF CATWALK.
- 8 GRILLE TO BE DIVIDED INTO FOUR EQUAL WIDTHS. SEE ARCHITECTURAL PLANS FOR EXACT WIDTH.
- 9 BELL MOUTH CONNECTION TO UNIT.



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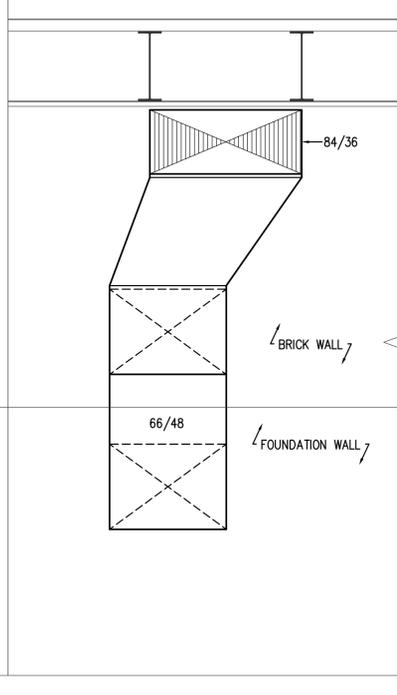
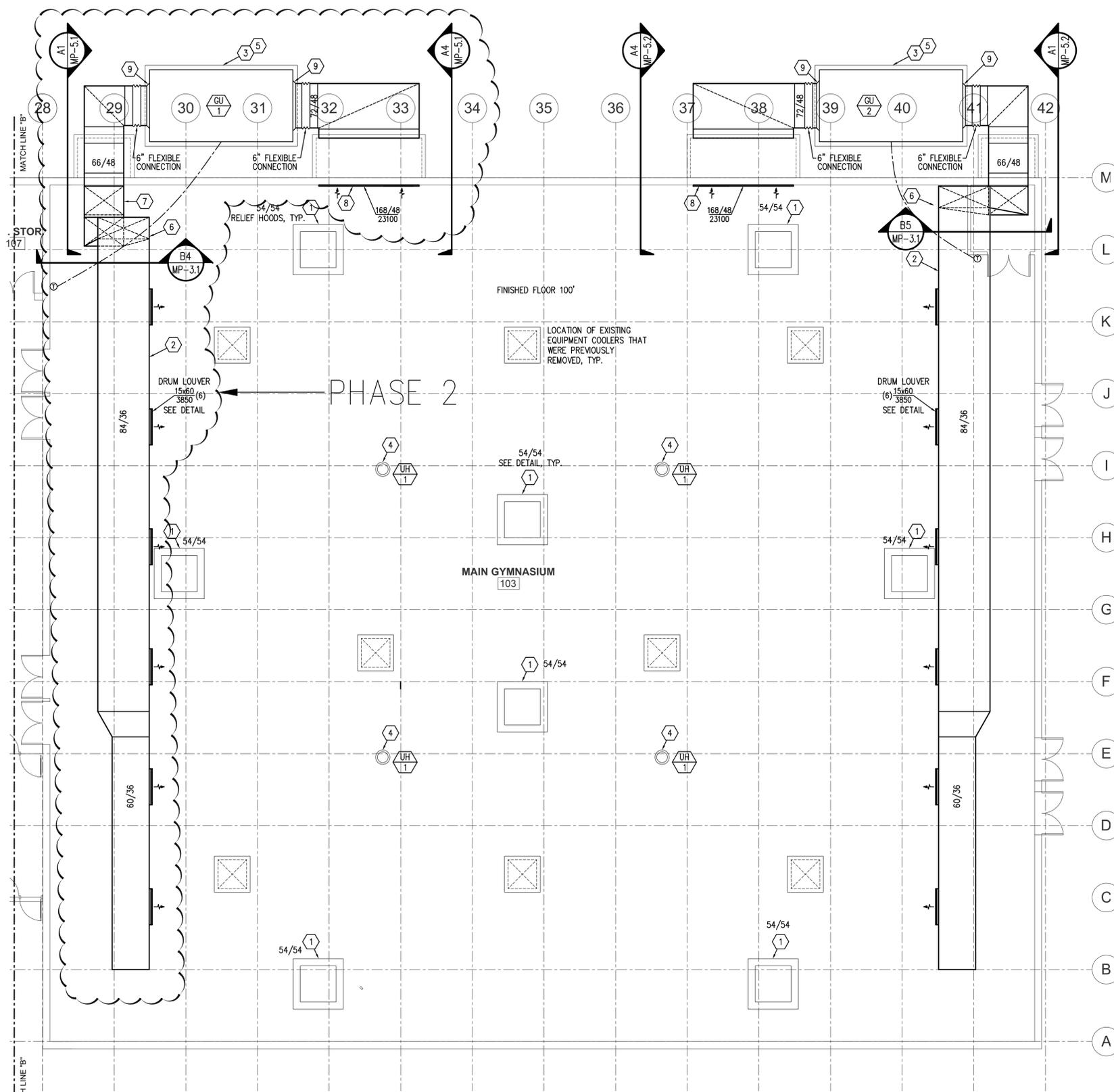
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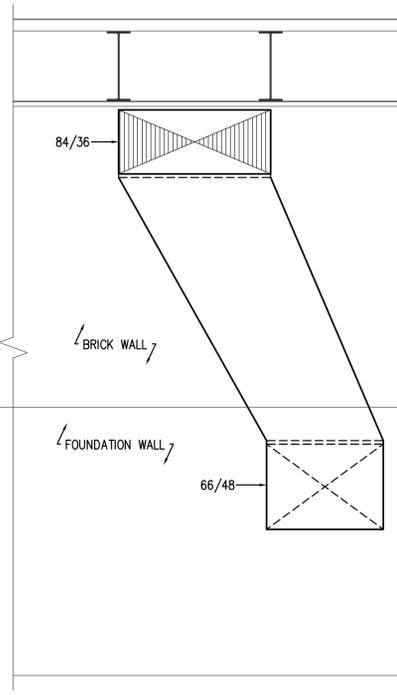
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SHEET TITLE:  
**LEVEL #1 AREA #3  
 MECHANICAL  
 PLAN**

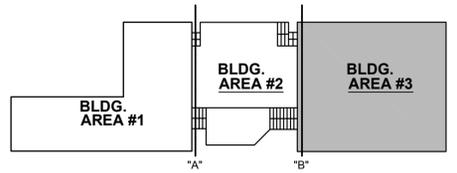
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**MP-3.1**



**B4 DUCT SECTION**  
 1/4" = 1'-0"



**B5 DUCT SECTION**  
 1/4" = 1'-0"



**A5 KEYPLAN**  
 1" = 80'-0"

**A1 LEVEL #1 AREA #3 MECHANICAL PLAN**  
 1/8" = 1'-0"

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SHEET TITLE:  
**LARGE SCALE MECHANICAL RM.  
 DEMO/NEW PLAN**

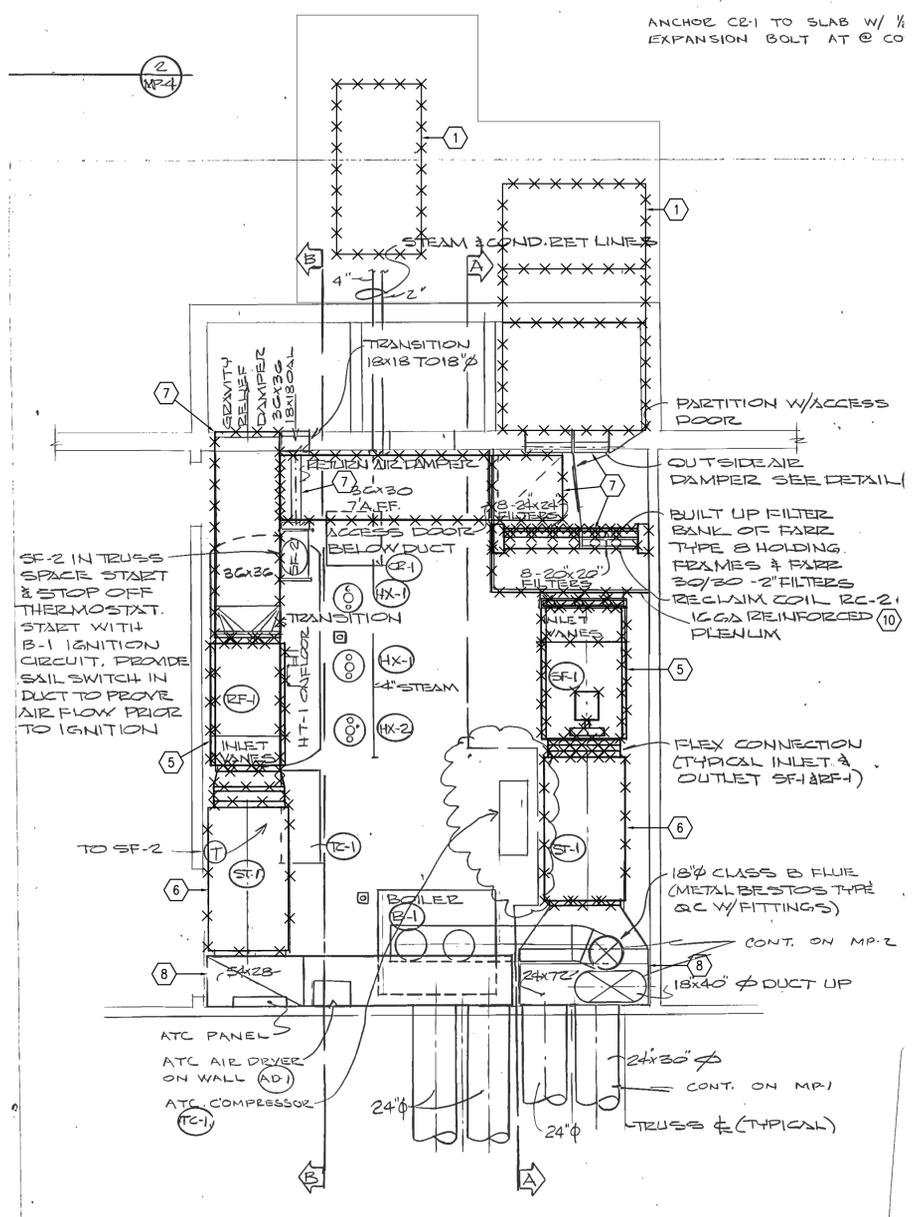
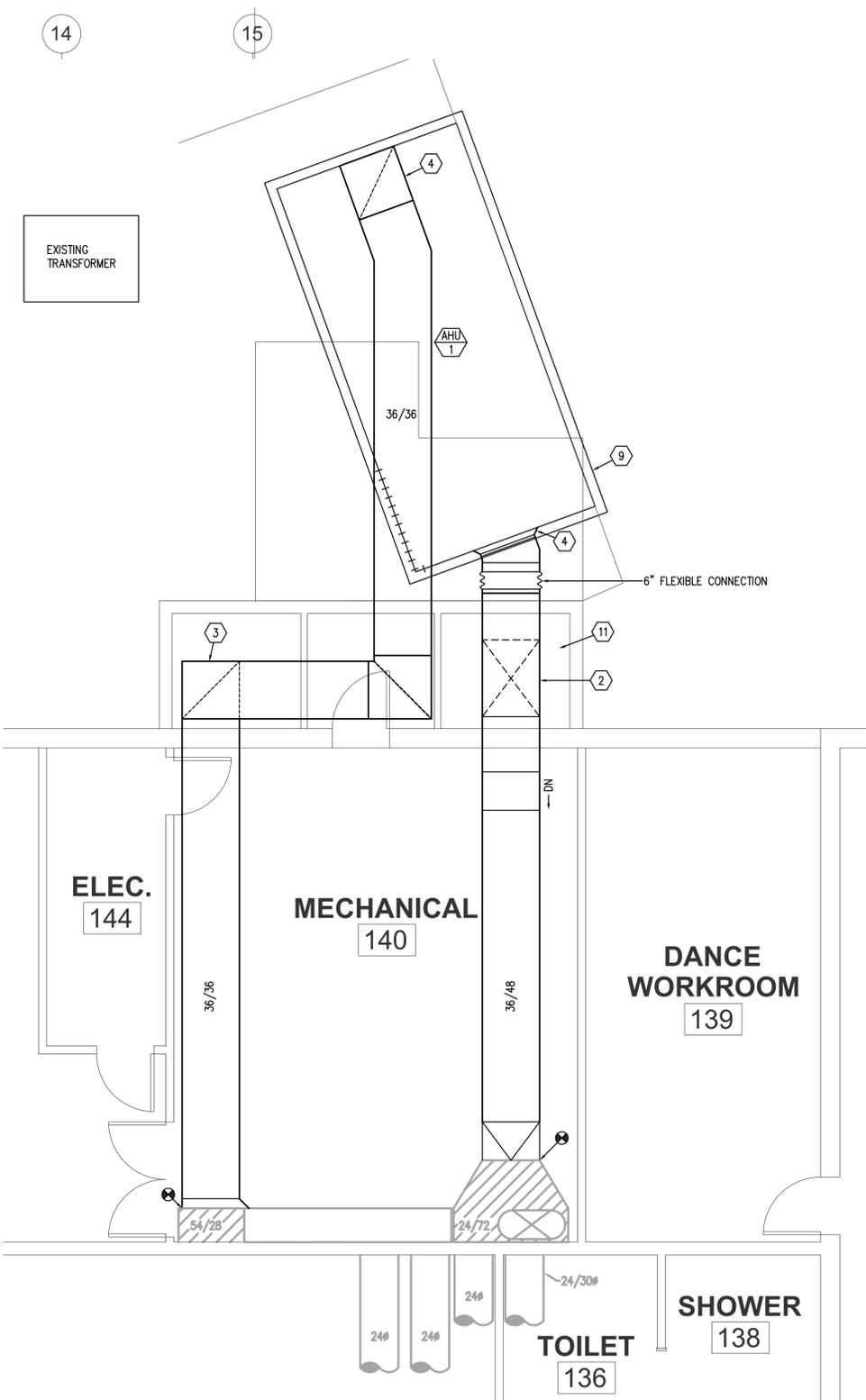
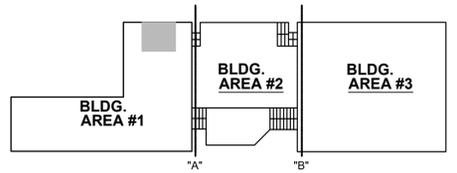
SHEET NUMBER:  
**MP-4.1**

**KEYED NOTES**

- CONTRACTOR TO NOTE THAT NEW KEYED NOTES HAVE BEEN ADDED TO THE EXISTING DRAWING ON THIS SHEET.
- REMOVE EXISTING 2-STAGE EVAP COOLER AND ASSOCIATED PIPING.
  - SUPPLY DUCT TO RISE TO HEIGHT OF AHU SUPPLY DISCHARGE.
  - RETURN DUCT TO RISE TO HEIGHT OF TOP OF AHU.
  - BELL MOUTH CONNECTION TO UNIT.
  - REMOVE SUPPLY AND RETURN FAN.
  - REMOVE SOUND TRAP.
  - REMOVE FILTERS AND DAMPERS.
  - EXISTING RISERS TO REMAIN.
  - HOUSEKEEPING PAD. SEE ARCHITECTURAL AND STRUCTURAL PLANS.
  - REMOVE HEAT RECOVERY COIL VALVES AND PIPING. CAP PIPING AT MAINS.
  - SEAL AREA WITH SHEET METAL COVER.

**GENERAL NOTES**

- CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING, AND REWORK REQUIRED FOR THIS SCOPE OF WORK.
- EXISTING DUCTWORK SIZING AND ROUTING HAS BEEN TAKEN FROM EXISTING DRAWINGS PROVIDED BY OTHERS AND IS CONSIDERED TO BE SCHEMATIC AND APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT SIZE AND LOCATION OF ALL DUCTWORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCING WORK.
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- ITEMS TO BE REMOVED ARE INDICATED WITH DARK "X" OVER EXISTING LINE WEIGHTS. APPROXIMATE POINTS OF REMOVAL AND EXTENT OF ITEMS TO BE DEMOLISHED ARE ALSO INDICATED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING, AND REWORK REQUIRED FOR THIS SCOPE OF WORK.
- THE CONTRACTOR SHALL FIELD COORDINATE ALL DEMOLITION WORK. FAILURE TO PROPERLY COORDINATE THE SCOPE OF WORK, AND ANY RESULTING COSTS, SHALL BE CONTRACTORS RESPONSIBILITY.
- RECOMMENDED POINTS OF REMOVAL HAVE BEEN SHOWN TO ASSIST THE CONTRACTOR WITH DETERMINING THE INTENT OF THE CONTRACT DOCUMENTS. ALL EXACT POINTS OF REMOVAL SHALL BE FIELD VERIFIED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDE ALL CAPS, TERMINATION ETC. REQUIRED TO COMPLETE THE WORK. ADDITIONALLY, ITEMS REQUIRED FOR SEQUENCING OF THE WORK SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- THE CONTRACTOR SHALL FIELD COORDINATE DUST AND NOISE CONTROL DURING ALL PHASES OF WORK. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY VENTILATION AND DUST BARRIERS REQUIRED.
- EQUIPMENT BEING REMOVED IS TO BE RETURNED TO THE OWNER UNLESS OTHERWISE DIRECTED. THE CONTRACTOR SHALL DISPOSE OF ALL ITEMS THAT THE OWNER DOES NOT WISH TO RETAIN FOR POSSIBLE FUTURE RE-USE.
- THE CONTRACTOR SHALL PROVIDE ALL PATCHING AND REPAIR REQUIRED DUE TO MECHANICAL EQUIPMENT BEING REMOVED.
- CONTRACTOR TO ENSURE THAT POWER TO ALL EQUIPMENT BEING REMOVED IS PROPERLY TERMINATED.
- THE LARGE SCALE MECHANICAL ROOM DEMOLITION PLAN IS A SCANNED IMAGE OF THE ORIGINAL DRAWING. INFORMATION ON SCANNED IMAGE IS FOR REFERENCE ONLY. THE INFORMATION INCLUDES ORIGINAL SCHEDULES, NOTES, SIZES, ETC.

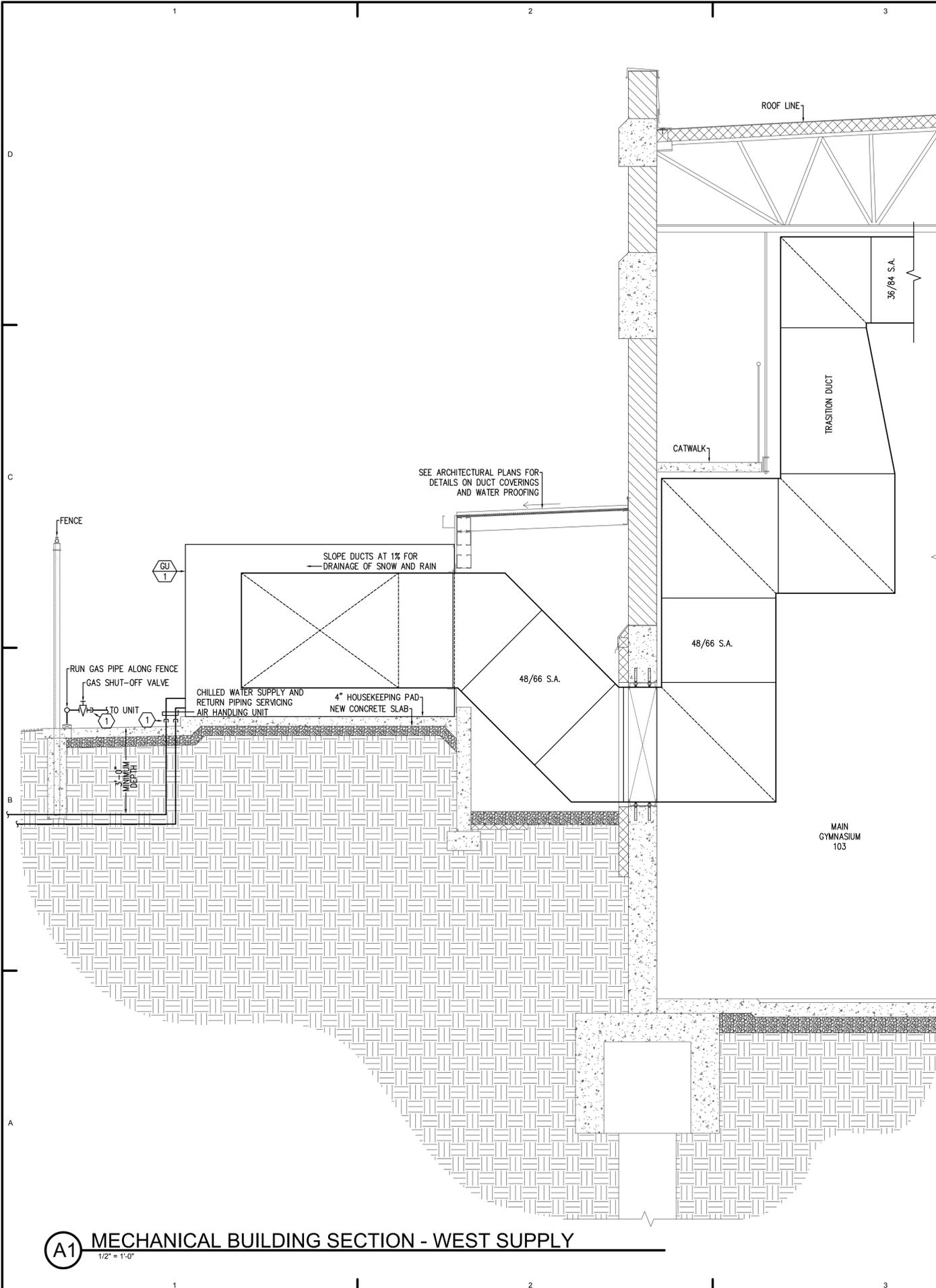


**A1 LARGE SCALE MECHANICAL ROOM DEMOLITION PLAN**  
 1/4" = 1'-0"

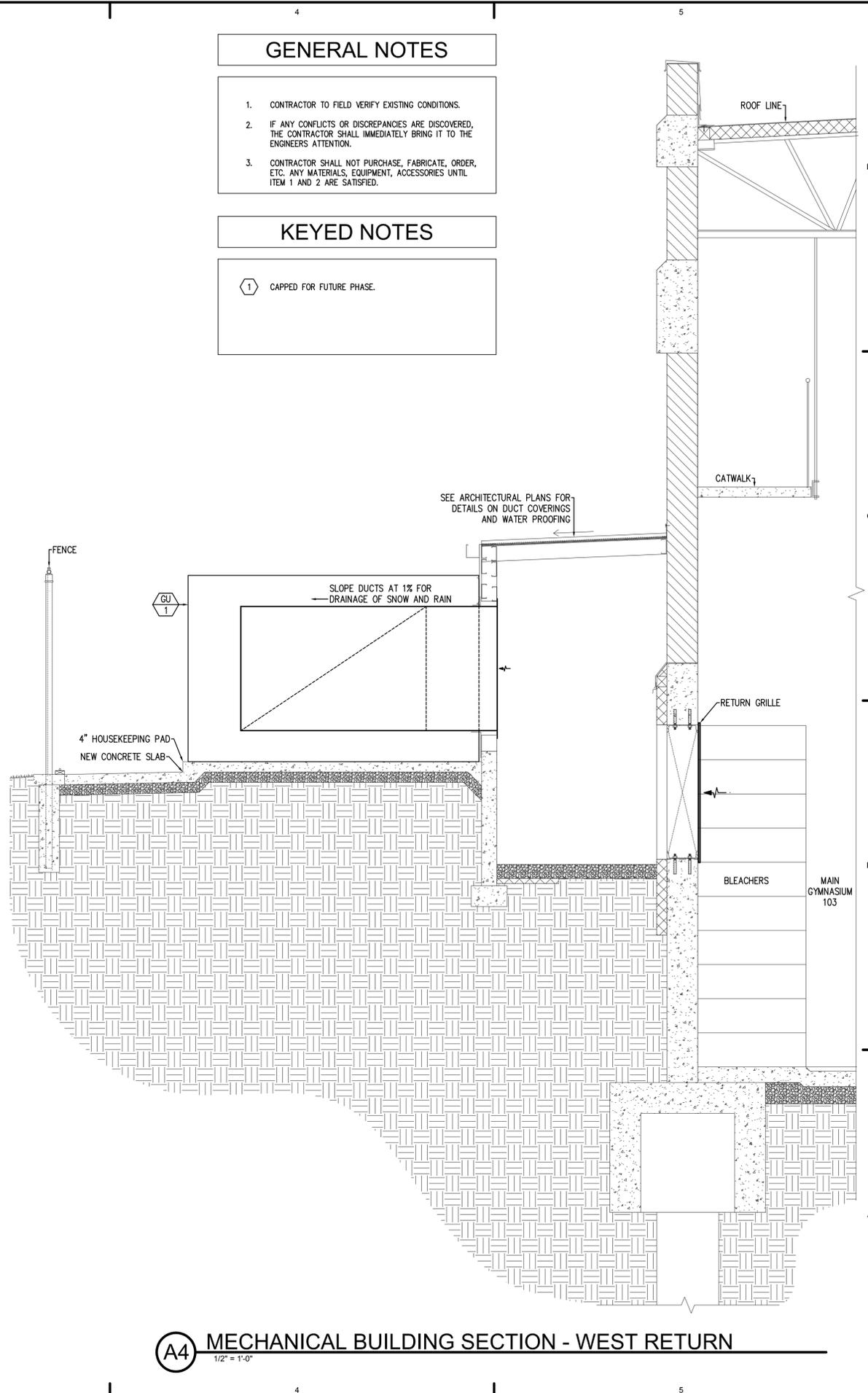
**A3 LARGE SCALE MECHANICAL ROOM PLAN**  
 1/4" = 1'-0"

**A5 KEYPLAN**  
 1" = 80'-0"

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**A1 MECHANICAL BUILDING SECTION - WEST SUPPLY**  
1/2" = 1'-0"



**A4 MECHANICAL BUILDING SECTION - WEST RETURN**  
1/2" = 1'-0"

**GENERAL NOTES**

1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS.
2. IF ANY CONFLICTS OR DISCREPANCIES ARE DISCOVERED, THE CONTRACTOR SHALL IMMEDIATELY BRING IT TO THE ENGINEER'S ATTENTION.
3. CONTRACTOR SHALL NOT PURCHASE, FABRICATE, ORDER, ETC. ANY MATERIALS, EQUIPMENT, ACCESSORIES UNTIL ITEM 1 AND 2 ARE SATISFIED.

**KEYED NOTES**

- ① CAPPED FOR FUTURE PHASE.



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VISA CONSULTING
  - ELECTRICAL ENGINEER  
MCCLOUD

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BUNNEL-DMITRICH  
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HVAC UPGRADE - PHASE II**  
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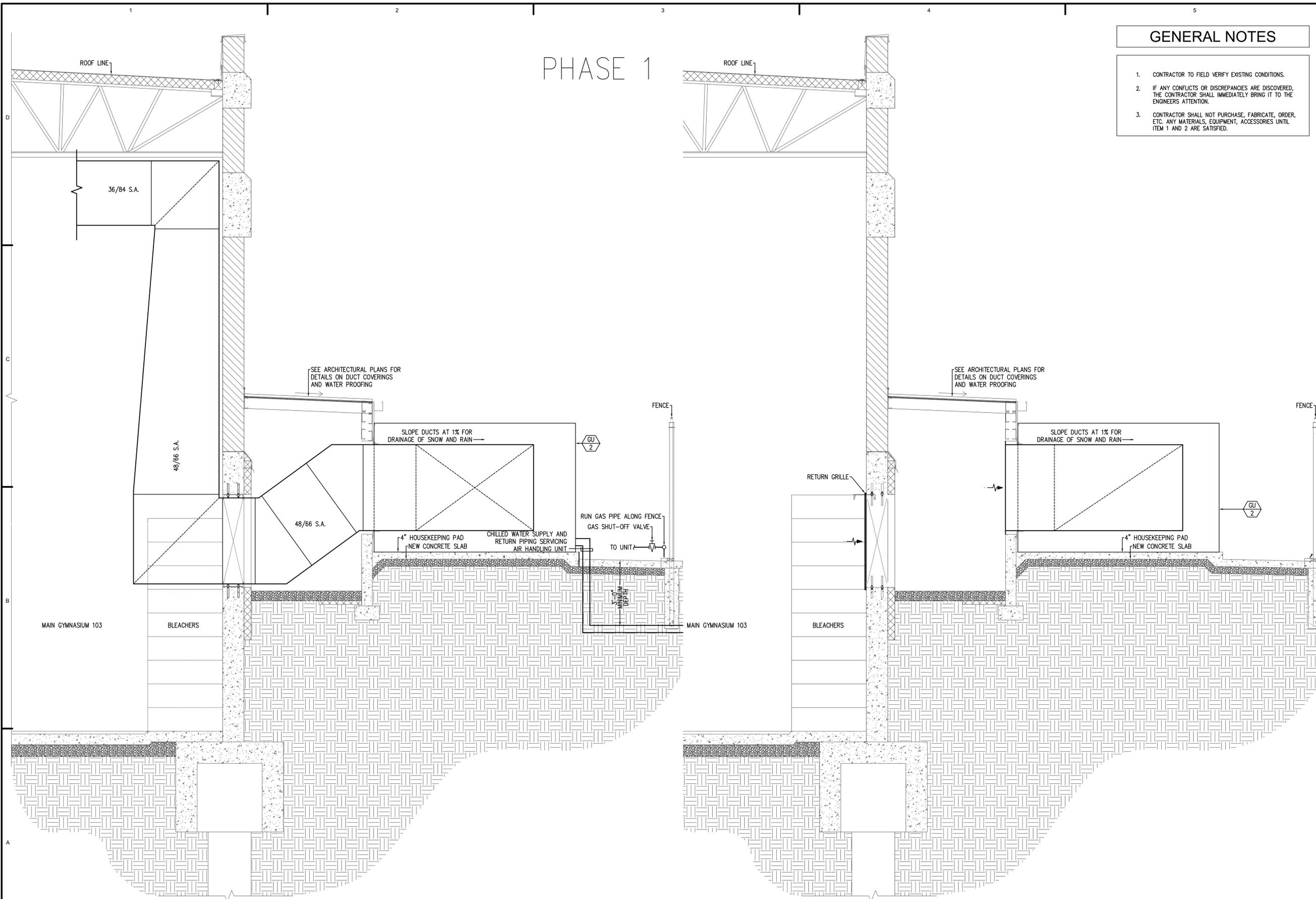
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SHEET TITLE:  
**MECHANICAL  
BUILDING  
SECTIONS**

SHEET NUMBER:  
**MP-5.1**



PHASE 1

- GENERAL NOTES**
1. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS.
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ARCHITECT'S INFORMATION



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**MECHANICAL BUILDING SECTIONS**

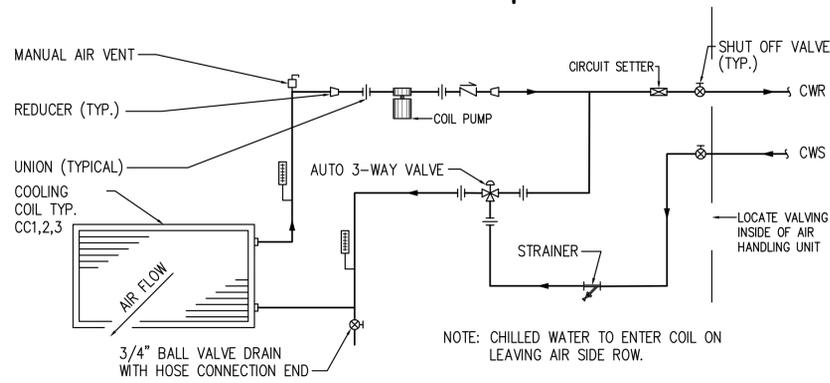
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**MP-5.2**

**A1 MECHANICAL BUILDING SECTION - EAST SUPPLY**  
 1/2" = 1'-0"

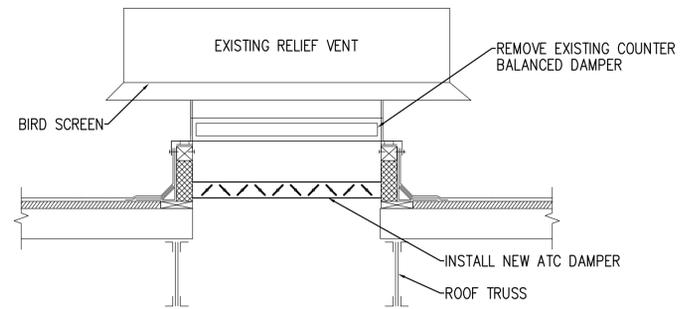
**A4 MECHANICAL BUILDING SECTION - EAST RETURN**  
 1/2" = 1'-0"

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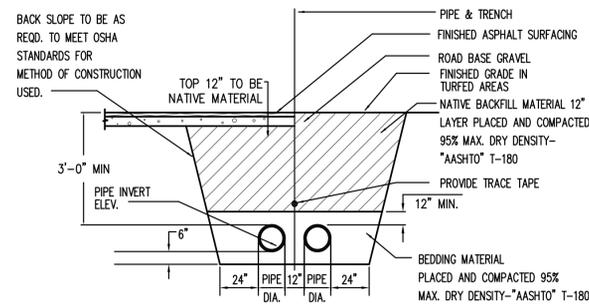
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NO SCALE



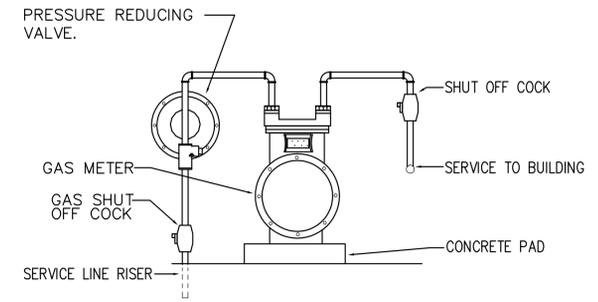
**TYPICAL EXISTING RELIEF HOOD DETAIL**

NO SCALE



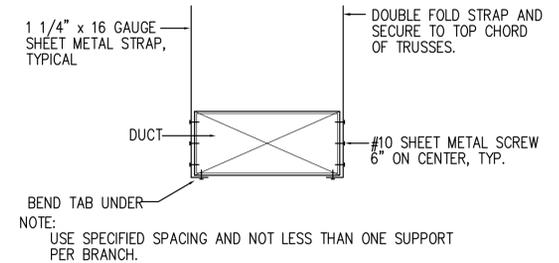
**TYPICAL PIPE SECTION**

NO SCALE



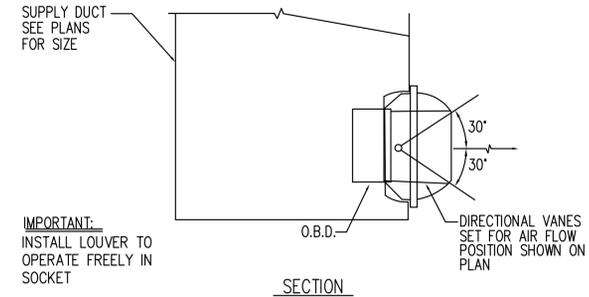
**GAS METER DETAIL**

NO SCALE



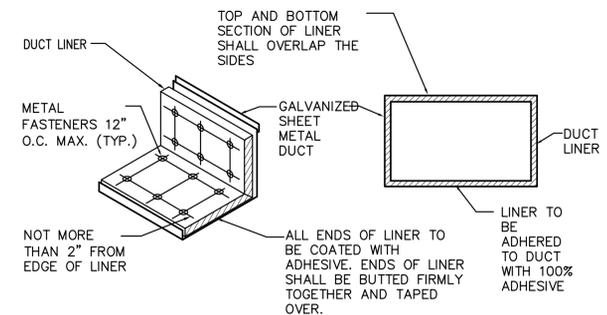
**RECTANGULAR DUCT SUPPORT**

NO SCALE



**DRUM LOUVER DETAIL**

NO SCALE



**DUCT LINER DETAIL**

NO SCALE

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**MECHANICAL DETAILS**

SHEET NUMBER:  
**MP-6.1**



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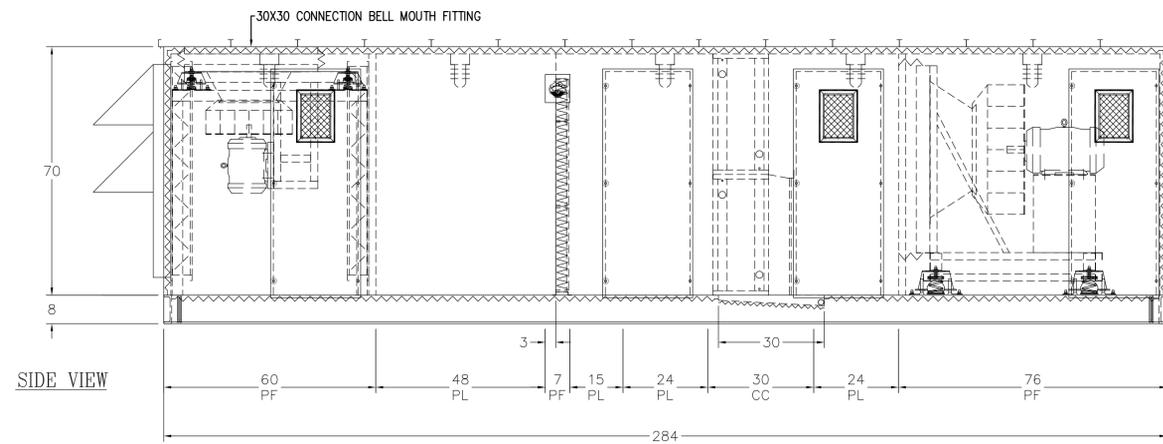
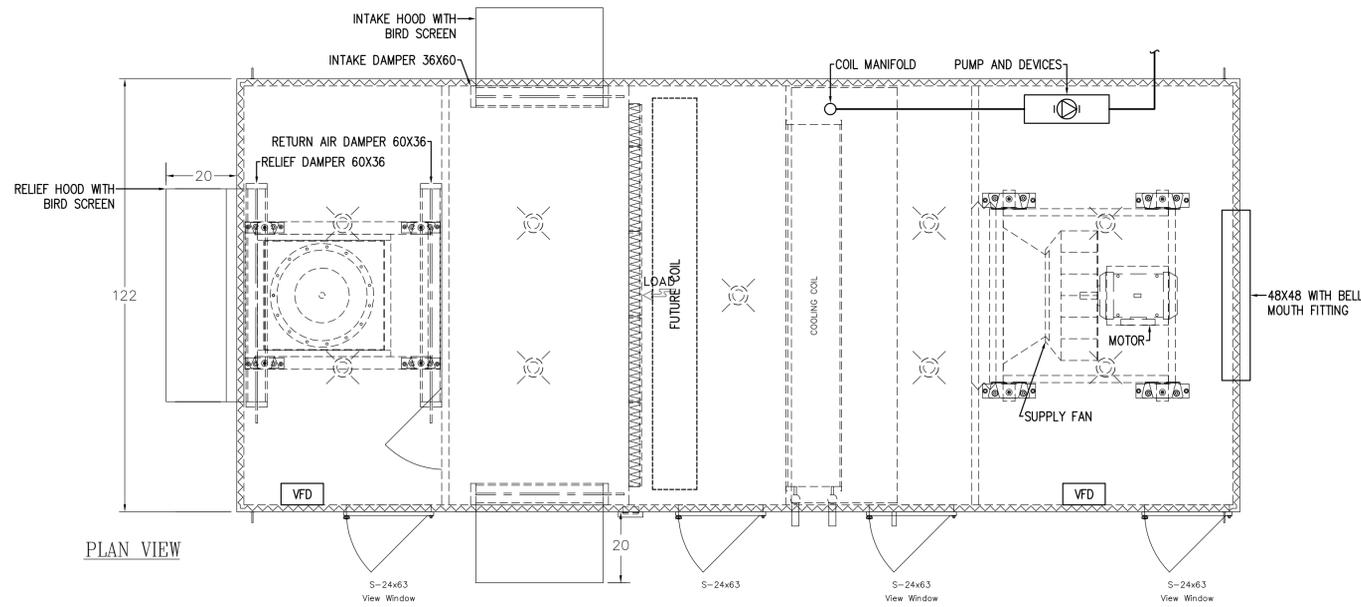
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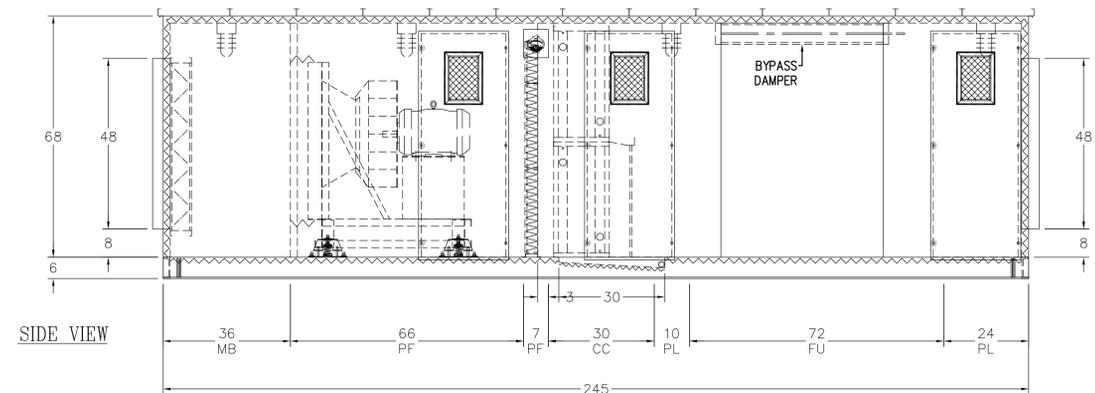
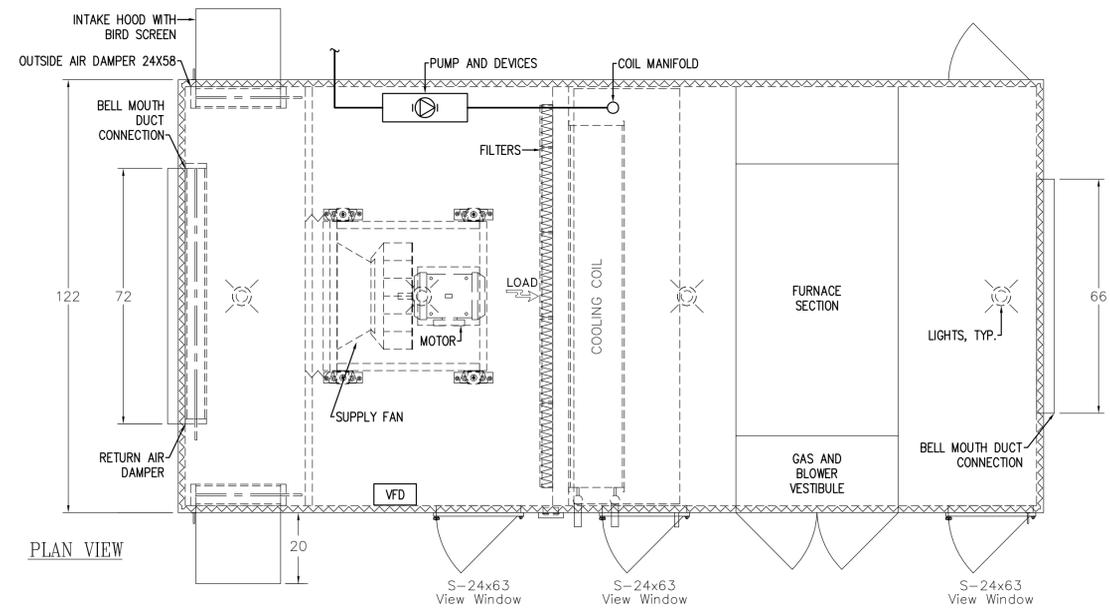
**MECHANICAL  
DETAILS**

SHEET NUMBER:

**MP-6.2**



**AHU-1**  
NO SCALE



**GU-1, GU-2 PHASE 1**  
NO SCALE



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**ELECTRICAL ENGINEER**  
 ELECTRIC ENGINEERS

PROJECT NAME:

**COLLEGE OF EASTERN UTAH  
BUNNEL-DMITRICH  
ATHLETIC CENTER  
HVAC UPGRADE - PHASE II**  
451 EAST 400 NORTH  
PRICE, UTAH 84501

NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION
01	02/18/08	CONSTRUCTION DOCUMENTS

ISSUED:  
 OWNER PROJECT #:  
 SPE PROJECT #:  
 DRAWN BY:  
 CHECKED BY:  
 DESIGNED BY:

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SHEET TITLE:

**SCHEDULES**

SHEET NUMBER:  
**MP-7.1**

**PUMP SCHEDULE**

ID	MANUFACTURER AND SERIES	MODEL	SERVICE	PUMP				ELECTRICAL				NOTES	
				FLUID FLOW RATE (GPM)	WORKING FLUID	HEAD LOSS (FT OF)	EFFICIENCY (%)	TYPE	MOTOR SIZE (HP)	MOTOR BHP (HP)	MOTOR SPEED (RPM)		VOLT/PH/Hz
P-1	ARMSTONG 4380	2X2X8	GU-1	113	40% GLYCOL	41	62	INLINE	3	2.1	1750	480/3/1	1, PHASE II
P-2	ARMSTONG 4380	2X2X8	GU-2	113	40% GLYCOL	41	62	INLINE	3	2.1	1750	480/3/1	1, PHASE I
P-3	ARMSTONG 4380	2X2X8	AHU-1	116	40% GLYCOL	41	62	INLINE	3	2.1	1750	480/3/1	1, PHASE II

1. POWER FROM AIR HANDLING UNIT

**AIR HANDLER SCHEDULE**

ID	MANUFACTURER	AIR SUPPLY AIRFLOW (CFM)	COMPONENTS				PUMP	FILTER	ELECTRICAL VOLT/PH/Hz	PHYSICAL WEIGHT (LB)	NOTES
			FANS	COILS	FURNACE						
GU-1	Energy Labs	23000	SF-1	CC-1	F-1	P-1	(8)24X24X4" (6)12X24X4"	460/3	11000	PHASE II	
GU-2	Energy Labs	23000	SF-2	CC-2	F-2	P-2	(8)24X24X4" (6)12X24X4"	460/3	11000	PHASE I	
AHU-1	Energy Labs	24000	SF-3, RF-3	CC-3	N/A	P-3	(8)24X24X4" (6)12X24X4"	460/3	14000	PHASE II	

**COIL SCHEDULE**

ID	MANUFACTURER	LOCATION	USAGE	AIR			FLUID				PHYSICAL				NOTES			
				AIRFLOW RATE (CFM)	TOTAL LOAD (MBH)	SENSIBLE LOAD (MBH)	ENTERING TEMP. DB/WB (°F)	LEAVING TEMP. DB/WB (°F)	STATIC PRESSURE (IN. WATER)	FLOW RATE (GPM)	ENTERING/LEAVING TEMP. (°F)	WORKING FLUID	HEAD LOSS (FT)	NO. COILS		EACH COIL FIN WIDTH/HEIGHT (IN)	MINIMUM WATER VELOCITY	MINIMUM NO. ROWS/ FINS PER INCH
CC-1	ENERGY LABS	GU-1	COOLING	23000	564	564	83/60	54	1	113	48/63	40% Glyc	23	2	102/30	3.00	10/12	PHASE II
CC-2	ENERGY LABS	GU-2	COOLING	23000	564	564	83/60	54	1	113	48/63	40% Glyc	23	2	102/30	3.00	10/12	PHASE I
CC-3	ENERGY LABS	AHU-1	COOLING	24000	580	580	83/60	54.34	1	116	48/63	40% Glyc	23	2	102/31.5	3.00	10/12	PHASE II

**FAN SCHEDULE**

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIR MAXIMUM AIRFLOW RATE (CFM)	FAN			MOTOR SIZE (HP)	MOTOR BHP (HP)	MOTOR SPEED (RPM)	ELECTRICAL VOLT/PH/Hz	NOTES
					STATIC PRESSURE (IN. WATER)	FAN SPEED (RPM)	FAN WHEEL DIAMETER (IN)					
SF-1	ENERGY LABS	GU-1	PLENUM	23000	3.5	1780	30	20	19.28	1800	460/3	PHASE II
SF-2	ENERGY LABS	GU-2	PLENUM	23000	3.5	1780	30	20	19.28	1800	460/3	PHASE I
SF-3	ENERGY LABS	AHU-1	PLENUM	24000	4.5	1284	36.5	25	24.01	1800	460/3	PHASE II
RF-3	ENERGY LABS	AHU-1	PLENUM	15000	1.5	1898	24.5	10	8	1800	460/3	PHASE II

**FAN COIL SCHEDULE - PHASE II**

ID	LOCATION	TYPE	AIR MAXIMUM AIRFLOW RATE (CFM)	FAN		COIL LOAD (BTU/H)	ELECTRICAL VOLT/PH/Hz	OTHER FLOW	NOTES
				EXTERNAL STATIC PRESSURE (IN. WATER)	MOTOR SIZE (HP)				
FC-1	Women's Locker	Heating Coil	4000	0.5	1	127,000	208/3/	24 GPM @ 5.8 CHW	1
FC-1	Men's Team Room	Heating Coil	4000	0.5	1	127,000	208/3/	24 GPM @ 5.8 CHW	1

1. DATA IS FROM ORIGINAL SCHEDULE. FIELD VERIFY ALL REPLACEMENT PARTS.

**GAS FIRED FURNACE SCHEDULE**

ID	MANUFACTURER AND MODEL NUMBER	INPUT LOAD (MBH)	OUTPUT LOAD (MBH)	AIRFLOW RATE (CFM)	PRESSURE DROP (IN H2O)	MAX UNIT AMPS	ELECTRICAL		NOTES
							VOLT/PH		
F-1	WEATHER RITE / HE 1500	1,565	1,000	15000	0.75	10	120/1		1,2 PHASE II
F-2	WEATHER RITE / HE 1500	1,565	1,000	15000	0.75	10	120/1		1,2 PHASE I

- 1. CFM AT 65% OF TOTAL UNIT CFM
- 2. CAPACITIES AT JOB SITE ELEVATION

**UNIT HEATER SCHEDULE - PHASE I**

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	USE TYPE	AIR		FLUID		ENTERING/LEAVING TEMP. (°F)	WORKING FLUID	MOTOR SIZE (HP)	ELECTRICAL VOLT/PH/Hz	NOTES
					AIRFLOW RATE (CFM)	LOAD (BTU/H)	FLOW RATE (GPM)						
UH-1	MODINE V/VN-247	Gymnasium	HW	HEATING	4800	188,700	8	200	Water	0.5	208/3/60 (1)	New Unit Heater To Replace Existing	

1. Provide a 115/1/60 phase unit heater with an accessory transformer to convert to voltage shown.

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
REFERENCE AND LINE SYMBOLS	
	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
	ELEVATION OR SECTION INDICATOR, EXTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
	ELEVATION OR SECTION INDICATOR, INTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
	ROOM OR SPACE NUMBER.
	KEYNOTE INDICATOR.
	REVISION INDICATOR.
	EQUIPMENT INDICATOR.
	BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING.
	BREAK, ROUND.
	MATCH LINE INDICATOR: CENTER, EXTRA WIDE LINE.
	NEW LINE: MEDIUM LINE.
	HIDDEN FEATURES LINE: HIDDEN, THIN LINE.
	EXISTING TO REMAIN LINE: THIN LINE.
	DEMOLITION LINE: DASHED, MEDIUM LINE.
WIRING METHODS	
	WIRING.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN SECTION 16120.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE. FOR BRANCH WIRING USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN SECTION 16120.
	WIRING AND/OR RACEWAY: THIN LINE. WHERE "X" = : CATV = CABLE TELEVISION CTV = CLOSED CIRCUIT TELEVISION FA = FIRE ALARM FO = FIBER OPTICS I = INTERCOM NC = NURSE CALL P = POWER RC = RIGID CONDUIT S = SOUND T = TELEPHONE TV = TELEVISION OTHERS AS NOTED IN OTHER SCHEDULES. RACEWAYS AND WIRING SHALL BE SIZED AS SHOWN AND/OR SPECIFIED.
	LOW VOLTAGE WIRING: DIVIDE, MEDIUM LINE.
	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.
	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM.
	JUNCTION BOX.

### EQUIPMENT SCHEDULE

MARK	ITEM DESCRIPTION	LOAD DATA							WIRE AND CONDUIT SIZE (CC-INDICATES CONDUCTOR AND CONDUIT SCHEDULE)	OVERCURRENT PROTECTION						NOTES	MARK		
		HP	KW	MCA	FLA	VOLT	PH	Hz		DISCONNECT SWITCH			CIRCUIT BREAKER						
										FURN BY	SWITCH TYPE	NEMA RATING	FUSED SWITCH	FUSE RATING	FUSE CLASS			CB	PANEL
AHU-1	AIR HANDLER			61.3	52.8	480	3	60	CC#17	E	100/3	3R	YES	70A		80/3	HACR	1	AHU-1
GU-1	GYM AIR HANDLER			40.6	33.8	480	3	60	CC#11	E	60/3	3R	YES	45A		50/3	HACR	1	GU-1
GU-2	GYM AIR HANDLER			40.6	33.8	480	3	60	CC#11	E	60/3	3R	YES	45A		50/3	HACR	1	GU-2
UH-1	UNIT HEATER (4 TOTAL)	1/2				208	3	60	EXISTING	E	EXISTING				EXIST	HACR	1,2	UH-1	

- NOTES:  
 1. LOCATE DISCONNECT ADJACENT TO UNIT.  
 2. RECONNECTION OF NEW UNIT TO BE PROVIDED UNDER ADD ALTERNATE #2. EXISTING DISCONNECT, CONDUIT AND CONDUCTORS TO BE REUSED.

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
ELECTRICAL POWER AND DISTRIBUTION	
	DISCONNECT, FUSED (ONE-LINE DIAGRAM).
	DISCONNECT WITH FUSE AND MOTOR STARTER COMBINATION (ONE-LINE DIAGRAM).
	OVERLOAD RELAY (ONE-LINE DIAGRAM).
	STARTER (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, MOLDED CASE (ONE-LINE DIAGRAM).
	MOTOR.
	DISCONNECT SWITCH, FUSED.
	DISCONNECT SWITCH, UNFUSED.
	STARTER, COMBINATION WITH DISCONNECT SWITCH.
	STARTER OR MOTOR CONTROLLER.
	PANELBOARD CABINET, FLUSH MOUNTED.
	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
	PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION.
	DISTRIBUTION PANEL OR SWITCHBOARD.
	LIGHTING RELAY, CONTACTOR PANEL, OR DIMMING ENCLOSURE.
	SWITCH, TOGGLE MOTOR STARTER WITH OVERLOAD PROTECTION.
	TRANSFORMER: NUMBER INDICATES KVA.
FIRE ALARM	
	FIRE ALARM CONTROL PANEL, SEMI-RECESSED.
	CONTROL MODULE.
	SHUT DOWN RELAY: INSTALL RELAY IN CONTROL CIRCUIT OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A FIRE.
	DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE.
WIRING DEVICES	
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF: NEMA 5-20R.

ABBREVIATIONS			
NOTE: ALL ABBREVIATIONS MAY NOT BE USED.			
1P	SINGLE POLE	KV	KILOVOLT
1PH	SINGLE-PHASE	KVA	KILOVOLT AMPERE
1WAY	ONE-WAY	KVAR	KILOVOLT AMPERE REACTIVE
2/C	TWO-CONDUCTOR	KW	KILOWATT
2WAY	TWO-WAY	KWh	KILOWATT HOUR
3/C	THREE-CONDUCTOR	LED	LIGHT EMITTING DIODE
3PH	THREE-PHASE	LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
3WAY	THREE-WAY	LFNC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
4OUT	QUADRUPLE RECEPTACLE OUTLET	LPS	LOW PRESSURE SODIUM
4PDT	FOUR-POLE DOUBLE THROW	LRA	LOCKED ROTOR AMPS
4PST	FOUR-POLE SINGLE THROW	LTG	LIGHTING
4W	FOUR-WIRE	LV	LOW VOLTAGE
4WAY	FOUR-WAY	MATV	MASTER ANTENNA TELEVISION SYSTEM
A	ABOVE COUNTER	MAX	MAXIMUM
AC	ARMORED CABLE	MC	METAL CLAD
ADA	AMERICANS WITH DISABILITIES ACT	MCA	MINIMUM CIRCUIT AMPS
ADJ	ADJACENT	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AFG	ABOVE FINISHED GRADE	MCP	MOTOR CIRCUIT PROTECTION
AIC	AMPERE INTERRUPTING CAPACITY	MDP	MAIN DISTRIBUTION PANEL
ALUM	ALUMINUM	MG	MOTOR GENERATOR
AMP	AMPERE	MH	MANHOLE
ANN	ANNUNCIATOR	MIN	MINIMUM
AP	ACCESS POINT (WIRELESS DATA)	MLO	MAIN LUGS ONLY
AR	AS REQUIRED	MOCOP	MAXIMUM OVERCURRENT PROTECTION
ASC	AMPS SHORT CIRCUIT AUTOMATIC TRANSFER SWITCH	NA	NOT APPLICABLE
ATS	AUTOMATIC TRANSFER SWITCH	NC	NORMALLY CLOSED
AV	AUDIO VISUAL	NEC	NATIONAL ELECTRICAL CODE
AW	AMERICAN WIRE GAGE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
BB XFMR	BUCK-BOOST TRANSFORMER	NFC	NATIONAL FIRE CODE
C	CEILING MOUNTED	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CATV	COMMUNITY ANTENNA TELEVISION	NIC	NOT IN CONTRACT
CB	CIRCUIT BREAKER	NL	NIGHT LIGHT
CCBA	CUSTOM COLOR AS SELECTED BY ARCHITECT	NO	NORMALLY OPEN
CCTV	CLOSED CIRCUIT TELEVISION	NTS	NOT TO SCALE
CFBA	CUSTOM FINISH AS SELECTED BY ARCHITECT	OC	ON CENTER
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED	OC/CI	OVER CURRENT PROTECTION OWNER FURNISHED/CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED	OF/OI	OWNER INSTALLED/OWNER INSTALLED
CKT	CIRCUIT	OFF	OBTAIN FROM PLANS
CM	CONSTRUCTION MANAGER	OH DR	OVERHEAD (COILING) DOOR
CND	CONDUIT	OL	OVERLOAD
CO	CONVENIENCE OUTLET	PB	PUSHBUTTON
COR	CONTRACTING OFFICER'S REPRESENTATIVE	PF	POWER FACTOR
CP	CONTROL PANEL	PH	PHASE
CT	CURRENT TRANSFORMER	PNL	PANEL
CTV	CABLE TELEVISION	PT	POTENTIAL TRANSFORMER
CU	COPPER	PTZ	PAN/TILT/ZOOM
dBA	UNIT OF SOUND LEVEL	QTY	QUANTITY
DPDT	DOUBLE POLE DOUBLE THROW	R	REMOVE
DS	DISCONNECT SWITCH	RCP	REFLECTED CEILING PLAN
EA	EACH	RMC	RIGID METAL CONDUIT
EM	EMERGENCY	RNC	RIGID NONMETALLIC CONDUIT
EMT	ELECTRICAL METALLIC TUBING	RPM	REVOLUTIONS PER MINUTE
ENT	ELECTRICAL NONMETALLIC TUBING	RR	REMOVE AND RELOCATE
EPO	EMERGENCY POWER OFF	SCA	SHORT CIRCUIT AMPS
EQUIP	EQUIPMENT	SCB	STANDARD COLOR AS SELECTED BY ARCHITECT
EX	EXISTING	SF	SQUARE FOOT (FEET)
F	FURNITURE MOUNTED	SFBA	STANDARD FINISH AS SELECTED BY ARCHITECT
FA	FIRE ALARM	SPOT	SINGLE POLE, DOUBLE THROW
FCP	FIRE ALARM CONTROL PANEL	SPEC	SPECIFICATION
FLA	FULL LOAD AMPS	SPST	SINGLE POLE, SINGLE THROW
FMC	FLEXIBLE METAL CONDUIT	S/S	START/STOP
FOB	FREIGHT ON BOARD	ST	SINGLE THROW
FVNR	FULL VOLTAGE NON-REVERSING	SWBD	SWITCHBOARD
FVR	FULL VOLTAGE REVERSING	SWGR	SWITCHGEAR
G	GROUND	TL	TWIST LOCK
GEN	GENERATOR	TP	TELEPHONE POLE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TP	TWISTED PAIR
GFP	GROUND FAULT PROTECTION	TTB	TELEPHONE TERMINAL BOARD
HD	HEAVY DUTY	TV	TELEVISION
HID	HIGH INTENSITY DISCHARGE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
HOA	HAND-OFF-AUTOMATIC	TYP	TYPICAL
HP	HORSE POWER	UF	UNDERFLOOR
HPF	HIGH POWER FACTOR	UGND	UNDERGROUND
HPS	HIGH PRESSURE SODIUM	UPS	UNINTERRUPTIBLE POWER SUPPLY
HV	HIGH VOLTAGE	V	VOLTS
HZ	HERTZ	VA	VOLT AMPERE
IG	ISOLATED GROUND	VFC	VARIABLE FREQUENCY CONTROLLER
IMC	INTERMEDIATE METAL CONDUIT	W/	WITH
IN/IS	INSULATED/ISOLATED	W/O	WITHOUT
I/O	INPUT/OUTPUT	WP	WEATHERPROOF
IR	INFRARED	XFMR	TRANSFORMER
J-BOX	JUNCTION BOX		

EQUIPMENT SCHEDULE KEY	
E	DIVISION 16
Q	FURNISHED WITH THE EQUIPMENT
*	COORDINATE WITH THE DIVISION 15 TEMPERATURE CONTROL INSTALLER
**	AUTOMATIC CONTROL WIRING BY DIVISION 15

### GENERAL NOTES

1. SCREENED DATA WAS WORK COMPLETED AS PART OF PHASE 1. IT IS NOT TO BE INCLUDED FOR BIDDING PURPOSES.

### GENERAL ELECTRICAL NOTES

- CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC, SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.
- OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM.
  - THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.
  - THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES, AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.
- EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.
- SUBMITTALS: PROVIDE SUBMITTALS IN THREE RING BINDERS WITH JOB NAME, SUBCONTRACTOR, AND VOLUME ON THE BINDING. PREPARE TABS FOR EACH SPECIFICATION SECTION REQUIRING SUBMITTALS. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.
  - REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.

### DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS.

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

### ELECTRICAL SHEET INDEX

SHEET NO	SHEET TITLE
EE-001	SYMBOL LEGEND, SHEET INDEX & SCHEDULES
EE-002	ONE-LINE DIAGRAMS
ED-101	LEVEL #1 AREA #1 DEMOLITION PLAN
EP-101	LEVEL #1 AREA #1 POWER PLAN
EP-102	LEVEL #1 AREA #2 POWER PLAN
EP-103	LEVEL #1 AREA #3 POWER PLAN



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 MECHANICAL ENGINEER  
 ELECTRICAL ENGINEER

PROJECT NAME:  
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 BUNNEL-DMITRICH  
 ATHLETIC CENTER  
 HVAC UPGRADE - PHASE II**  
 451 EAST 400 NORTH  
 PRICE, UTAH 84501

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SYMBOL LEGEND,  
 SHEET INDEX &  
 SCHEDULES

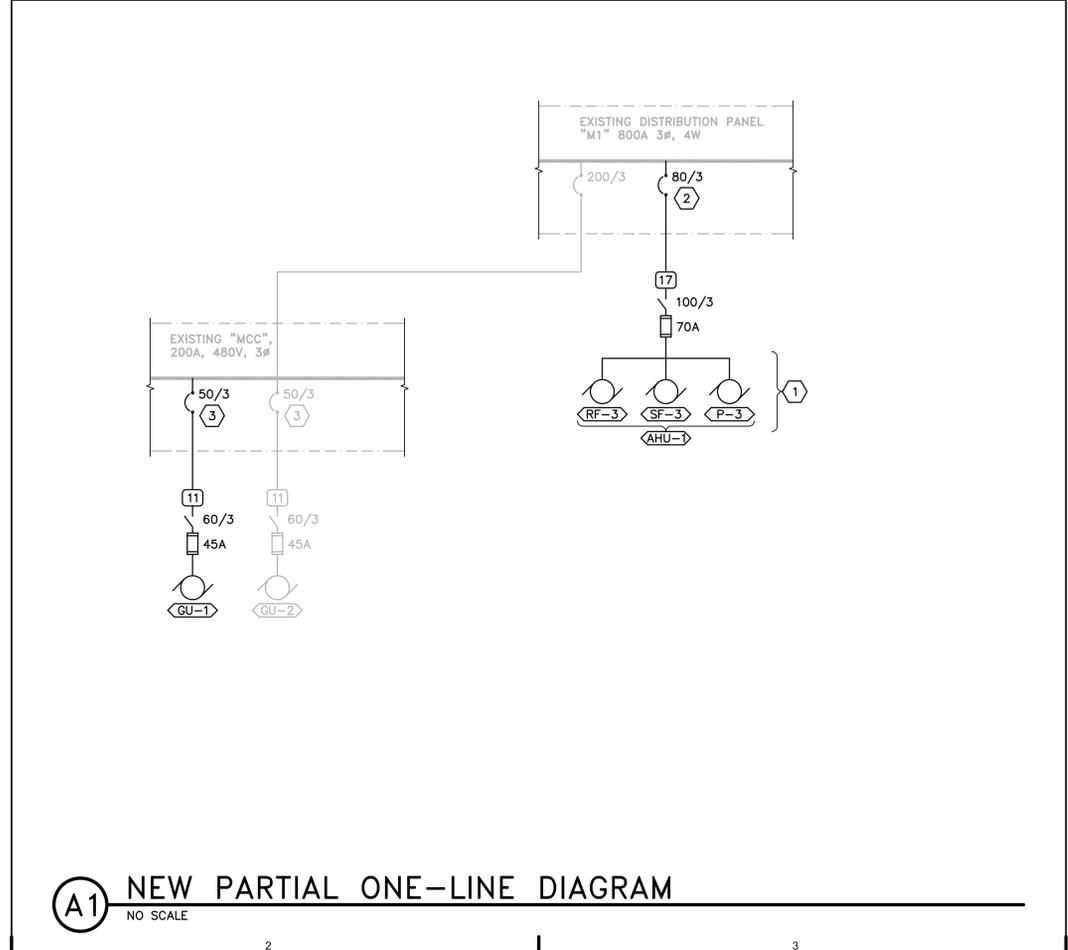
SHEET NUMBER:  
**EE-001**

### CONDUCTOR AND CONDUIT SCHEDULE

SCHEDULE NUMBER (E.G.) S<sub>IG</sub>  
 SUBSCRIPT (NOTE 5)

SYM	AMP	CONDUIT SIZE	CONDUCTOR (NOTE 1)		IG	SE	NOTES
			QTY	SIZE			
1	20	.75	2	12	12	8	2
2	20	.75	3	12	12	8	2,3
3	20	.75	4	12	12	8	2,3
4	30	.75	2	10	10	8	2
5	30	.75	3	10	10	8	2
6	30	.75	4	10	10	8	2
7	40	1	2	8	10	8	6 2
8	40	1	3	8	10	8	6 2
9	40	1	4	8	10	8	6 2
10	55	1	2	6	10	8	4 2
11	55	1	3	6	10	8	4 2
12	55	1.25	4	6	10	8	4 2
13	70	1	2	4	8	4	2 2
14	70	1.25	3	4	8	4	2 2
15	70	1.25	4	4	8	4	2 2
16	85	1.25	2	3	8	3	2 2
17	85	1.25	3	3	8	3	2 2
18	85	1.25	4	3	8	3	2 2
19	95	1.25	3	2	8	2	2 2
20	95	1.50	4	2	8	2	2 2
21	130	1.50	3	1	6	2	2 2
22	130	1.50	4	1	6	2	2 2
23	150	2	3	1/0	6	2	1/0 2
24	150	2	4	1/0	6	2	1/0 2
25	175	2	3	2/0	6	2	2/0 2
26	175	2	4	2/0	6	2	2/0 2
27	200	2	3	3/0	6	2	2/0 2
28	200	2.50	4	3/0	6	2	2/0 2
29	230	2.50	3	4/0	4	2	2/0 2
30	230	2.50	4	4/0	4	2	2/0 2
31	255	2.50	3	250	4	1	2/0 2
32	255	2.50	4	250	4	1	2/0 2
33	310	3	3	350	3	1/0	3/0 2
34	310	3	4	350	3	1/0	3/0 2
35	380	3.50	3	500	3	3/0	3/0 2
36	380	4	4	500	3	3/0	3/0 2
37	400	2 EA 2	3	3/0	3	3/0	3/0 2
38	400	2 EA 2.50	4	3/0	3	3/0	3/0 2
39	510	2 EA 2.50	3	250	1	4/0	3/0 2
40	510	2 EA 3	4	250	1	4/0	3/0 2
41	620	2 EA 3	3	350	1/0	4/0	3/0 2,4
42	620	2 EA 3	4	350	1/0	4/0	3/0 2,4
43	760	2 EA 3.50	3	500	1/0	4/0	3/0 2,4
44	760	2 EA 4	4	500	1/0	4/0	3/0 2,4
45	855	3 EA 3	3	300	2/0	4/0	3/0 2,4
46	855	3 EA 3	4	300	2/0	4/0	3/0 2,4
47	1000	3 EA 3.50	3	400	2/0	4/0	3/0 4
48	1000	3 EA 3.50	4	400	2/0	4/0	3/0 4
49	1140	3 EA 4	3	500	3/0	4/0	3/0 4
50	1140	3 EA 4	4	500	3/0	4/0	3/0 4
51	1240	4 EA 3	3	350	3/0	4/0	3/0 4
52	1240	4 EA 3	4	350	3/0	4/0	3/0 4
53	1675	5 EA 3.50	4	400	4/0	4/0	4/0 4
54	2010	6 EA 3.50	4	400	250	250	250 4
55	2660	7 EA 4	4	500	350	350	350 4
56	3040	8 EA 4	4	500	500	500	500 4
57	4180	11 EA 4	4	500	500	500	500 4
58	5 EA 4						6
59	5						6
60	10 EA 4						6

- CONDUCTOR AND CONDUIT SCHEDULE NOTES**
- CONDUCTORS SHOWN ARE SHOWN FOR EACH CONDUIT WITH MODIFICATIONS AS NOTED IN NOTE 5. ALL CONDUCTORS SHOWN ARE THWN UNLESS OTHERWISE NOTED.
  - PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122 WHEN CIRCUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN TABLE.
  - PROVIDE #10 NEUTRALS FOR MULTIWIRE BRANCH CIRCUITS SERVING COMPUTERS.
  - GROUND (G) CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS.
  - WHEN SYMBOL SUBSCRIPT INDICATES "IG", INCLUDE "IG" OR INSULATED GROUND CONDUCTOR SCHEDULED ALONG WITH GROUND OR EQUIPMENT GROUND CONDUCTOR. WHEN SYMBOL SUBSCRIPT INDICATES "SE", SUBSTITUTE "SE" CONDUCTOR FOR "G" CONDUCTOR SHOWN WHICH IS SIZED FOR THE GROUNDING OF THE SECONDARY OF THE SEPARATELY DERIVED SYSTEMS.
  - RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.



### GENERAL SHEET NOTES

- PROVIDE NEMA 3R ENCLOSURES FOR EQUIPMENT LOCATED OUTDOORS. REFER TO PLANS FOR EQUIPMENT LOCATIONS.
- REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.
- ALL EQUIPMENT SHALL BE CONSTRUCTED AND BRACED FOR THE SEISMIC CONDITIONS OF THE PROJECT. REFER TO SPECIFICATIONS SECTION 16071 FOR REQUIREMENTS.
- SCREENED DATA WAS WORK COMPLETED AS PART OF PHASE 1. IT IS NOT TO BE INCLUDED IN THE BID.

### SHEET KEYNOTES

- ALL INTERNAL WIRING OF PACKAGED UNIT TO INDIVIDUAL MOTORS BY EQUIPMENT MANUFACTURER. PROVIDE SINGLE POINT CONNECTION TO AIR HANDLER AHU-1.
- PROVIDE NEW 80A/3P BREAKER IN EXISTING MAIN PANEL "M1". FIELD VERIFY PANEL TYPE AND PROVIDE BREAKER TO MATCH.
- PROVIDE NEW 50A/3P BREAKER IN EXISTING "MCC". COORDINATE REQUIREMENTS WITH "MCC" MANUFACTURER. FIELD VERIFY.

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 ATHLETIC CENTER  
 HVAC UPGRADE - PHASE II**  
 451 EAST 400 NORTH  
 PRICE, UTAH 84501

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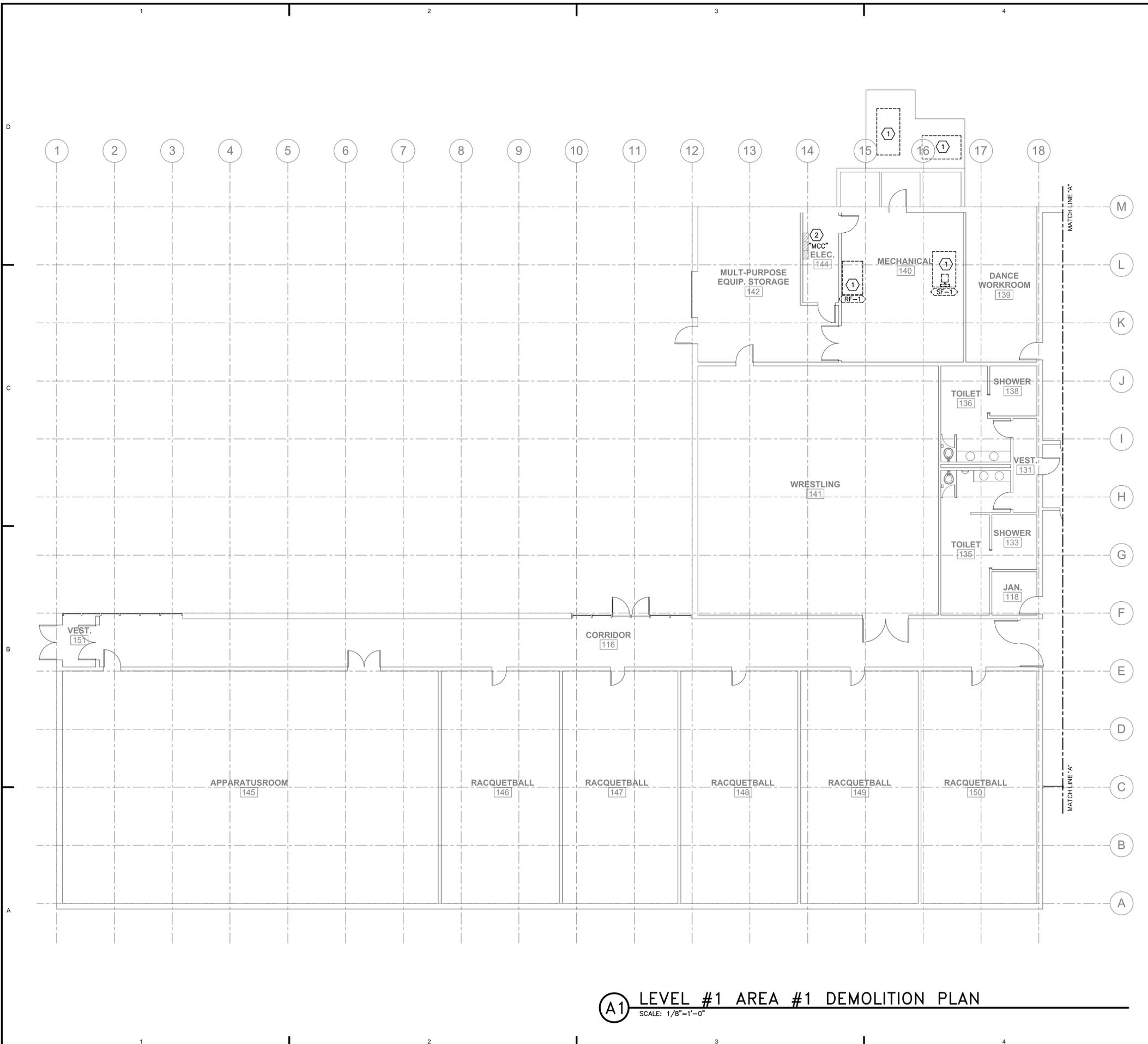
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SHEET TITLE:  
**ONE-LINE DIAGRAMS**

SHEET NUMBER:  
**EE-002**



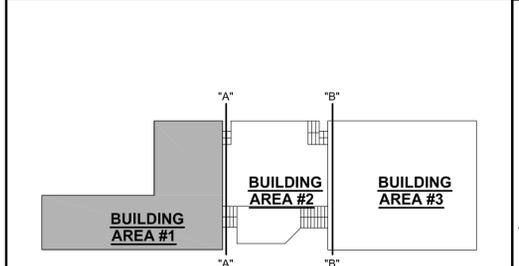
**A1** LEVEL #1 AREA #1 DEMOLITION PLAN  
SCALE: 1/8"=1'-0"

**GENERAL SHEET NOTES**

1. PROVIDE GROUNDING CONDUCTORS PER NEC FOR CIRCUITS AFFECTED BY THIS WORK.
2. RELOCATE AND/OR REROUTE EXISTING CONDUIT, WIRING OR OTHER EQUIPMENT THAT CONFLICTS WITH DEMOLITION OR NEW CONSTRUCTION.
3. REMOVE ALL CONDUIT, WIRING AND CABLING THAT IS ABANDONED OR WILL BECOME ABANDONED AS A RESULT OF THIS PROJECT.
4. WHERE DEVICES, LIGHT FIXTURES OR OTHER EQUIPMENT ARE BEING REMOVED, REMOVE ASSOCIATED CONDUIT AND WIRING TO PANEL BOARD OR FIRST ACTIVE JUNCTION BOX.

**SHEET KEYNOTES**

1. REMOVE CONNECTION TO EXISTING EQUIPMENT ALONG WITH CONDUIT AND WIRING BACK TO MOTOR CONTROL CENTER "MCC". REMOVE EXISTING STARTER/DISCONNECT IN "MCC" AND REPLACE WITH NEW BREAKER. SEE ONE-LINE DIAGRAM.
2. REMOVE EXISTING COMBINATION STARTER DISCONNECTS THAT FED THE GYM EVAPORATIVE COOLERS AS REQUIRED TO ACCOMMODATE THE NEW CIRCUIT BREAKERS FOR THE GYM UNITS GU-1 AND GU-2. FIELD VERIFY REQUIREMENTS.



**A5** KEYPLAN  
NTS



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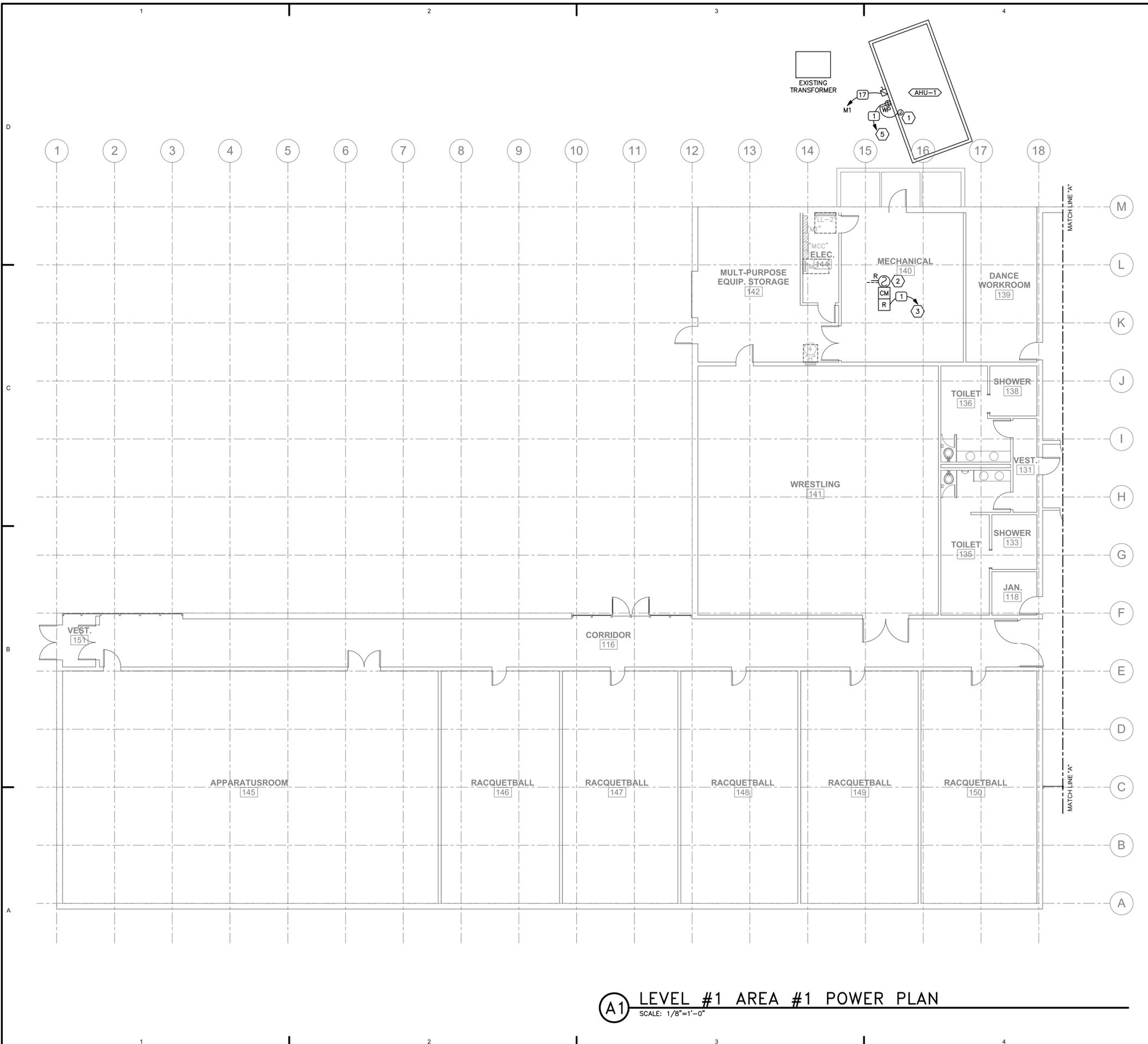
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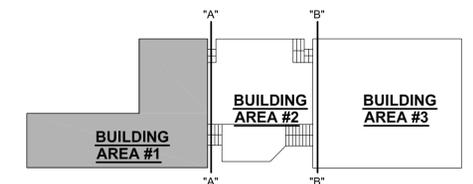
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SHEET TITLE:  
**LEVEL #1 AREA #1 DEMOLITION PLAN**  
SHEET NUMBER:  
**ED-101**



**A1** LEVEL #1 AREA #1 POWER PLAN  
SCALE: 1/8"=1'-0"

**SHEET KEYNOTES**

1. PROVIDE CONNECTION TO INTERNAL LIGHTS. VERIFY REQUIREMENT WITH MECHANICAL EQUIPMENT INSTALLER.
2. PROVIDE NEW DUCT SMOKE DETECTOR IN AHU-1 RETURN AIR DUCT. TIE INTO EXISTING FIRE ALARM PANEL INITIATING LOOP AS REQUIRED. FIELD VERIFY EXISTING FIRE ALARM SYSTEM AND PROVIDE DEVICE TO MATCH. EXISTING FIRE ALARM CONTROL PANEL MANUFACTURER IS GAMEWELL.
3. CONNECT TO NEAREST UNSWITCHED 120 VOLT POWER.
4. PROVIDE 1-EACH NEW 20A/1P BREAKER IN EXISTING PANEL "H". FIELD VERIFY PANEL TYPE AND MATCH BREAKER TO PANEL.
5. CONNECT TO NEW BREAKER IN EXISTING PANEL "H".



**A5** KEYPLAN  
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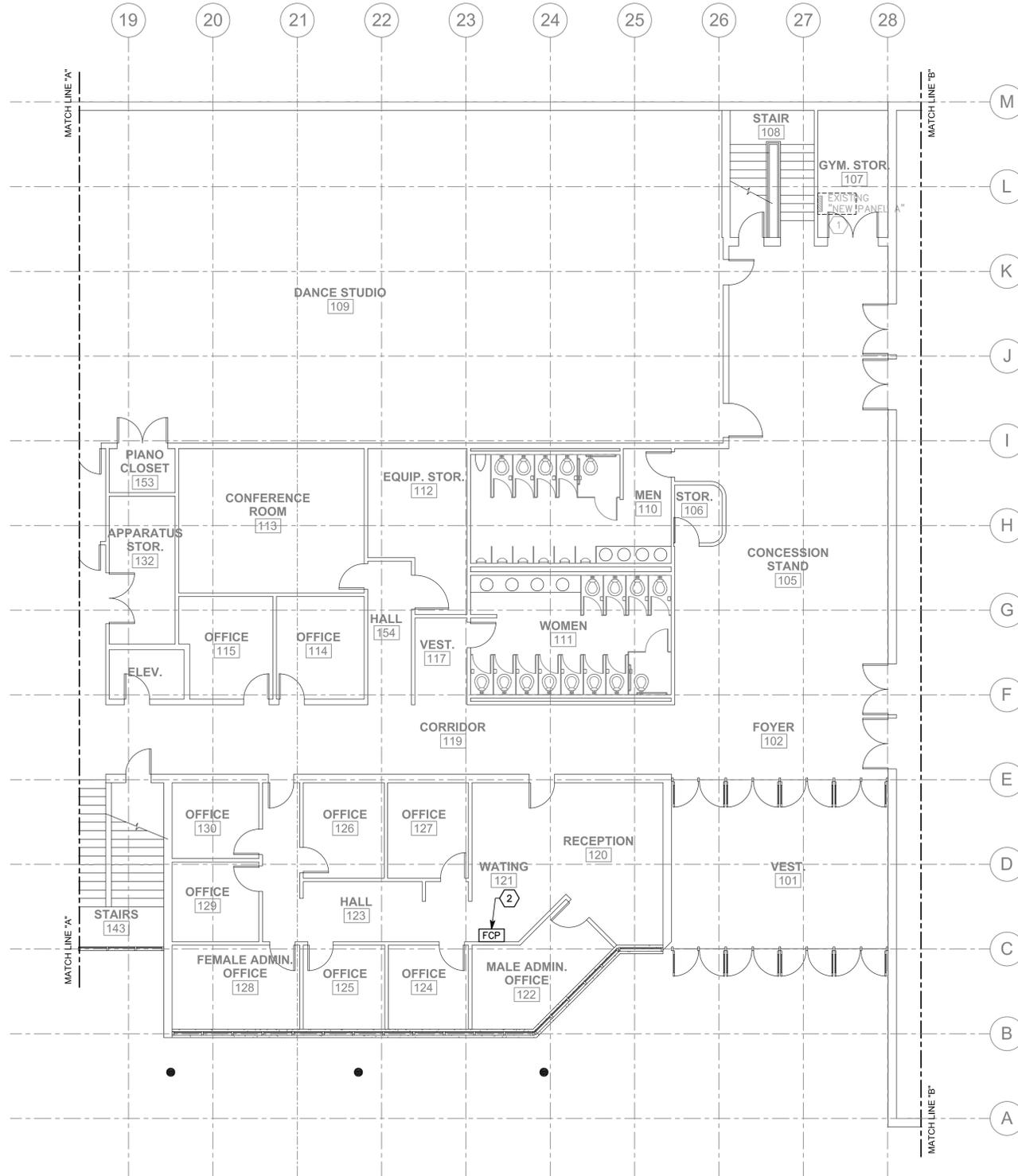
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**LEVEL #1 AREA #1  
POWER PLAN**

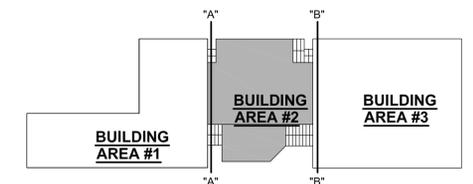
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**EP-101**



**A1** LEVEL #1 AREA #2 POWER PLAN  
SCALE: 1/8"=1'-0"

**SHEET KEYNOTES**

1. PROVIDE 3-EACH NEW 20A/1P BREAKERS IN EXISTING "NEW PANEL A". FIELD VERIFY PANEL TYPE AND PROVIDE MATCHING BREAKERS.
2. EXISTING GAMEWELL FIRE ALARM CONTROL PANEL.



**A5** KEYPLAN  
NTS

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SHEET TITLE:  
**LEVEL #1 AREA #2  
POWER PLAN**

SHEET NUMBER:  
**EP-102**

