

UNIVERSITY OF LOUISVILLE

STUDENT RECREATION CENTER

2030 SOUTH 4th STREET
LOUISVILLE, KENTUCKY 40208



BID PACKAGE, PHASE #4 - GENERAL CONTRACTOR

BEST VALUE

JANUARY, 2012

THE SCOPE OF BID PACKAGES, PHASES 1, 2, AND 3 (INCLUDING ADDENDA) ARE RELATED TO AND INCLUDE ASSIGNED SCOPE OF WORK THAT IS A COMPONENT OF BID PACKAGE #4. THESE DOCUMENTS HAVE BEEN ISSUED IN ADVANCE OF BID PACKAGE #4.

BID PACKAGE, PHASE (1) SITE PREPERATION (FLYNN BROS.)
BID PACKAGE, PHASE (2) SPECIAL INSTRUCTIONS (TBA)
BID PACKAGE, PHASE (3) STEEL FABRICATION AND ERECTION (TBA)
BID PACKAGE, PHASE (4) GENERAL CONTRACTOR BEST VALUE



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Carman

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Swope Design Group

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CMTA Consulting Engineers

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COMMISSIONING AGENT

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ACCOUSTICAL CONSULTANTS

Robert Pass + Associates

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COST CONSULTANTS

Schedule of Drawings

MECHANICAL/ELECTRICAL/PLUMBING

FP0111 - LEVEL 01 - FIRE PROTECTION
FP0121 - MEZZANINE - FIRE PROTECTION
FP0131 - LEVEL 02 - FIRE PROTECTION

UM0100 - MECHANICAL SITE PLAN
UM0101 - WELL FIELD WATER CONTAINMENT PLAN
UM0102 - GEOTHERMAL DETAILS
UM0103 - GEOTHERMAL DETAILS

M0001 - MECHANICAL LEGEND
M0211 - LEVEL 01 - AIR DISTRIBUTION - AREA A
M0212 - LEVEL 01 - AIR DISTRIBUTION - AREA B
M0213 - LEVEL 01 - AIR DISTRIBUTION - AREA C
M0214 - LEVEL 01 - AIR DISTRIBUTION - AREA D
M0221 - MEZZANINE LEVEL - AIR DISTRIBUTION - AREA A
M0222 - MEZZANINE LEVEL - AIR DISTRIBUTION - AREA B
M0223 - MEZZANINE LEVEL - AIR DISTRIBUTION - AREA C
M0224 - MEZZANINE LEVEL - AIR DISTRIBUTION - AREA D
M0231 - LEVEL 02 - AIR DISTRIBUTION - AREA A
M0232 - LEVEL 02 - AIR DISTRIBUTION - AREA B
M0311 - LEVEL 01 - HYDRONICS
M0321 - MEZZANINE LEVEL - HYDRONICS
M0331 - LEVEL 02 - HYDRONICS
M0401 - ENLARGED MECHANICAL - AIR DISTRIBUTION
M0402 - ENLARGED MECHANICAL - PIPING
M0403 - ENLARGED MECHANICAL ROOMS
M0404 - ENLARGED MECHANICAL ROOMS - PIPING
M0501 - MECHANICAL SECTIONS
M1001 - MECHANICAL PIPING SCHEMATICS
M1002 - MECHANICAL PIPING SCHEMATICS
M1101 - MECHANICAL DETAILS
M1102 - MECHANICAL DETAILS
M1201 - MECHANICAL SCHEDULES
M1202 - MECHANICAL SCHEDULES

P0111 - PLUMBING LEGEND AND SCHEDULES
P0112 - PLUMBING SCHEDULES AND SCHEMATICS
P0113 - SITE UTILITIES PLAN - GEOTHERMAL MAN. BUILDING
P0200 - LEVEL 01 UNDERSLAB PLUMBING
P0201 - LEVEL 01 UNDERSLAB PLUMBING - AREA B
P0202 - LEVEL 01 UNDERSLAB PLUMBING - AREA C
P0203 - LEVEL 01 UNDERSLAB PLUMBING - AREA D
P0210 - LEVEL 01 - PLUMBING
P0211 - LEVEL 01 - PLUMBING - AREA B
P0212 - LEVEL 01 - PLUMBING - AREA C
P0213 - LEVEL 01 - PLUMBING - AREA D
P0220 - MEZZANINE - PLUMBING
P0221 - MEZZANINE - PLUMBING - AREA B
P0222 - MEZZANINE - PLUMBING - AREA C
P0223 - MEZZANINE - PLUMBING - AREA D
P0230 - LEVEL 02 - PLUMBING
P0231 - LEVEL 02 - PLUMBING - AREA A
P0232 - LEVEL 02 - PLUMBING - AREA B
P0233 - LEVEL 02 - PLUMBING - AREA C
P0234 - LEVEL 02 - PLUMBING - AREA D
P0241 - ROOF - PLUMBING
P0300 - LEVEL 01 - ENLARGED PLUMBING PLAN
P0301 - ZEBI CONCESSION DRAWINGS
P0400 - PLUMBING LEGEND AND SCHEDULES
P0401 - PLUMBING LEGEND AND SCHEDULES

UE1101 - SITE UTILITY PLAN - ELECTRICAL DEMOLITION
UE1201 - SITE PLAN - ELECTRICAL
UE1301 - ELECTRICAL SITE DETAILS
UE1401 - ELECTRICAL SITE DETAILS

E0001 - ELECTRICAL LEGEND
E0101 - LEVEL 01 - INTERCONNECTION PLAN
E0102 - LEVEL 02 - INTERCONNECTION PLAN
E0103 - LEVEL 03 - INTERCONNECTION PLAN
E0211 - LEVEL 01 - LIGHTING - AREA A
E0212 - LEVEL 01 - LIGHTING - AREA B
E0213 - LEVEL 01 - LIGHTING - AREA C
E0214 - LEVEL 01 - LIGHTING - AREA D
E0221 - MEZZANINE - LIGHTING - AREA A
E0222 - MEZZANINE - LIGHTING - AREA B
E0223 - MEZZANINE - LIGHTING - AREA C
E0224 - MEZZANINE - LIGHTING - AREA D
E0231 - LEVEL 02 - LIGHTING - AREA A
E0232 - LEVEL 02 - LIGHTING - AREA B
E0311 - LEVEL 01 - POWER/SYSTEMS - AREA A
E0312 - LEVEL 01 - POWER/SYSTEMS - AREA B
E0313 - LEVEL 01 - POWER/SYSTEMS - AREA C
E0314 - LEVEL 01 - POWER/SYSTEMS - AREA D
E0321 - MEZZANINE - POWER/SYSTEMS - AREA A
E0322 - MEZZANINE - POWER/SYSTEMS - AREA B
E0323 - MEZZANINE - POWER/SYSTEMS - AREA C
E0324 - MEZZANINE - POWER/SYSTEMS - AREA D
E0331 - LEVEL 02 - POWER/SYSTEMS - AREA A
E0332 - LEVEL 02 - POWER/SYSTEMS - AREA B
E0411 - ENLARGED POWER/SYSTEMS PLANS
E0412 - ENLARGED POWER/SYSTEMS PLANS
E0711 - PANELBOARD SCHEDULES
E0712 - PANELBOARD SCHEDULES
E0713 - PANELBOARD SCHEDULES
E0714 - PANELBOARD SCHEDULES
E0715 - PANELBOARD SCHEDULES
E1001 - ELECTRICAL SCHEDULES & DETAILS
E1101 - ELECTRICAL DETAILS
E1102 - ELECTRICAL DETAILS
E1201 - ELECTRICAL SCHEDULES & DETAILS
E1202 - ELECTRICAL SCHEDULES & DETAILS
E1203 - ELECTRICAL SCHEDULES & DETAILS
E1301 - FIRE ALARM RISER
E1401 - NORMAL POWER DISTRIBUTION RISER
E1402 - EMERGENCY POWER DISTRIBUTION RISER

Set No. _____

Louisville, Ky

University of Louisville - Student Recreation Center (Bid Package, Phase #4)

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ARCHITECTS

CANNONDESIGN

Drawing Name:	MEP COVER SHEET
U of L Project Number:	
Project Number:	Omni - 1105.00 Cannon - 03667.00
Date:	JANUARY 2012
Drawn By:	KTV
Checked By:	DLA

M / E / P
3 of 3

MECHANICAL LEGEND			
AFC	ABOVE FINISHED CEILING	XX	THERMOSTAT ID TAG (ZONE NUMBER IDENTIFIER)
AFF	ABOVE FINISHED FLOOR	XX	DUCT CONTINUATION REFERENCE HP ZONE #
EAC	EXPOSED AT CEILING	AD	ACCESS DOOR IN CEILING
BF	BELOW FLOOR		
TYP	TYPICAL		
NTS	NOT TO SCALE	A	MANUAL AIR VENT
NO	NORMALLY OPEN		AUTOMATIC AIR VENT
NC	NORMALLY CLOSED		
	TAGGED NOTE		PIPING ELBOW (TURNED UP/DOWN)
CD	CONDENSATE DRAIN LINE		PIPING TEE (TURNED UP/DOWN)
GS	GEOTHERMAL SUPPLY		FLEXIBLE CONNECTOR
GR	GEOTHERMAL RETURN		FLANGE
HCS	HOT/CHILLED WATER SUPPLY		UNION
HCR	HOT/CHILLED WATER RETURN		DIELECTRIC UNION
	CHECK VALVE	D	
	GLOBE VALVE	PS	PRESSURE SWITCH
	O S & Y VALVE (GATE)	TS	TAMPER SWITCH
	SAFETY OR RELIEF VALVE	FS	FLOW SWITCH
	PRESSURE REDUCING VALVE (WATER)		BUTTERFLY VALVE
	REDUCED PRESSURE BACKFLOW PREVENTER		PETE'S PLUG OR EQUIVALENT
	CONTROL VALVE (2-WAY)		STRAINER
	CONTROL VALVE (3-WAY)		BALANCING COCK
	TRIPLE DUTY VALVE		BALL VALVE
	FIRE DAMPER		INDICATES AIR DISTRIBUTION DEVICE SPECIFICATION. (L=LOUVER, T=TRANSFER GRILLE, S=SUPPLY DIFFUSER OR REGISTER, R=RETURN GRILLE OR REGISTER, E=EXHAUST GRILLE OR REGISTER)
	FIRE/SMOKE DAMPER	20x12 SA	SUPPLY AIR DUCT - INSIDE DIMENSION - 20"HORZ.X12"VERT. (TURNED UP/DOWN)
	SMOKE DAMPER	20x12 RA	RETURN AIR DUCT - INSIDE DIMENSION - (TURNED UP/DOWN)
	DUCT ELBOW WITH TURNING VANES	20x12 OA	OUTSIDE AIR DUCT - INSIDE DIMENSION - (TURNED UP/DOWN)
	VOLUME DAMPER (MANUAL)	20x12 EA	EXHAUST AIR DUCT - INSIDE DIMENSION - (TURNED UP/DOWN)
	OPPOSED BLADE DAMPER (MOTORIZED)	AD	ACCESS DOOR IN BOTTOM OF DUCT
	FLEXIBLE DUCT	AD	ACCESS DOOR IN SIDE OF DUCT
	PIPING TRANSITION	T	THERMOSTAT
	DIRECTION OF FLOW (PIPING)	TS	TEMPERATURE SENSOR
	PIPING/ROUND DUCTWORK CONTINUATION	H	HUMIDITY SENSOR-REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS
	DUCTWORK CONTINUATION	Ps	DUCT MOUNTED PRESSURE SENSOR
	PRESSURE GAUGE & COCK	CO2	CARBON DIOXIDE SENSOR-REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS
	DIGITAL TEMPERATURE GAUGE	PB	BUILDING PRESSURE SENSOR
14" SA	SUPPLY AIR DUCT - ROUND 14" DIAMETER	DP	PIPE MOUNTED DIFFERENTIAL PRESSURE SENSOR
	MECHANICAL EQUIPMENT DESIGNATOR	DS	DUCT SMOKE DETECTOR
VAV AHU ID	VAV BOX TAG WITH MAXIMUM CFM	FD	FIRE DAMPER
HP ZONE #	HEAT PUMP EQUIPMENT TAG WITH ZONE # IDENTIFIER	FM	FLOW METER
P ZONE #	PUMP EQUIPMENT TAG WITH ZONE # IDENTIFIER		

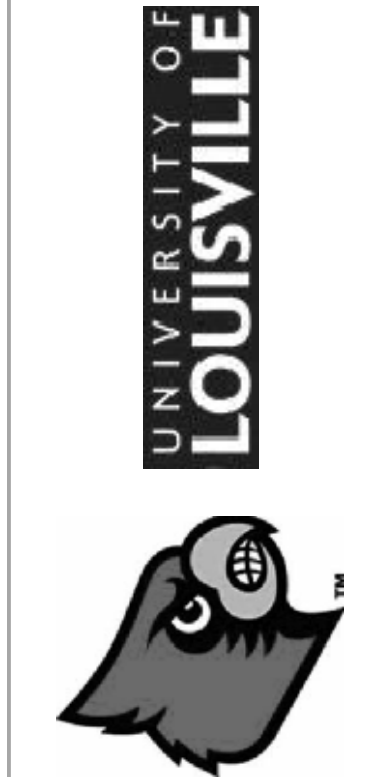
GENERAL NOTES (APPLICABLE TO ALL DRAWINGS)

- EACH CONTRACTOR, SUPPLIER AND, OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS AND AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.
- ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC., MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSERS' DISCRETION.
- OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS (CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.).
- ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT DONE SO SHALL BE REMOVED AND REINSTALLED SATISFACTORILY.
- WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS.
- DO NOT SCALE FROM DRAWINGS, PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR THEIR WORK. ALL CUTTING AND PATCHING SHALL MATCH ADJACENT SURFACES. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCT WORK ELBOWS.
- THESE DRAWINGS ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE, HOWEVER LOCATIONS, DEPTHS, ELEVATIONS AND SIZES WERE TAKEN FROM DIFFERENT SOURCES AND ARE SUBJECT TO DEVIATION. THE CONTRACTOR SHALL ASSUME SOME DEVIATIONS AND INCLUDE OFFSETS, ADDITIONAL PIPING, ETC AT THE TIME OF BID.
- WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATIONS IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANY WAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING INSTALLER.
- ADVISE THE ENGINEERS OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.
- DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEERS AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.
- COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, ETC. WITH ALL MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).
- THE PURPOSE AND INTENT OF ALL THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.
- ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
- INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORD WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEER PRIOR TO INSTALLATION FOR CLARIFICATION.
- ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES, EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN WRITING.
- DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEER OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- THE GENERAL CONTRACTOR FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC.
- VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT.
- THE GENERAL CONTRACTOR SHALL ENSURE PROPER COORDINATION BETWEEN ALL TRADES SUCH THAT CONDUITS, PIPING, DUCTWORK, ETC. DO NOT BLOCK ACCESS TO VALVES, EQUIPMENT, DUCT ACCESS DOORS, ETC. ITEMS THAT HAVE BEEN INSTALLED WHERE ACCESS IS COMPROMISED SHALL BE RELOCATED AT THE CONTRACTOR'S EXPENSE.
- ALL FLOOR PENETRATIONS REQUIRE FIRE DAMPERS. INSTALL ACCESS PANELS AND MAINTAIN SERVICE CLEARANCES.
- OWNER IS PURSUING LEED IEQ CREDIT 5. ALL RETURN GRILLES SHALL HAVE FILTERS APPLIED WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 13 OR HIGHER PRIOR TO OCCUPANCY. OUTSIDE AIR UNITS SHALL NOT OPERATE PRIOR TO OCCUPANCY. REFER TO GENERAL PROVISIONS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL INCLUDE IN THEIR BID ALL COSTS ASSOCIATED WITH DRAINING AND FILLING PIPING SYSTEMS AS REQUIRED TO INSTALL THEIR NEW WORK.
SYSTEMS INCLUDE:
A. 2-PIPE SYSTEMS;
B. GEOTHERMAL SYSTEM.

University of Louisville - Student Recreational Facility (Bid Package, Phase #4)

Louisville, Ky

Drawing Name: Mechanical Legend		Revision Date	
U of L Project Number:	03667.00	1	
		2	
Project Number:		3	
Date:	January 2012	4	
Drawn By:	JAT	5	
Checked By:	JEF	6	
		7	
		8	



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STATE OF KENTUCKY
JESS EDWARDS
FEBRUARY 2012
LICENSED PROFESSIONAL ENGINEER

M0001

GEOTHERMAL HEAT PUMP UNIT DATA - MECH ROOM106												
UNIT ID	ZONE SERVED	UNIT SIZE	SUPPLY AIR CFM	RETURN AIR CFM	OUTSIDE AIR CFM	OA DUCTED TO RETURN	FLOW RATE (GPM)	PIPE SIZE	HOSE KIT PIPE SIZE	CD PIPE SIZE	HOT GAS REHEAT	FACTORY DISCONNECT
1	LOUNGE 100	HP-120	3975	3975	450	NO	32.0	2-1/2"	2-1/2"	1 1/2"	NO	YES
2	BREAKROOM 102E	HP-18	600	600	70	YES	7.0	1-1/4"	1-1/4"	3/4"	NO	NO
3	OFFICES 102F-L	HP-48	1600	1600	80	YES	14.0	2"	2"	1"	NO	NO
5	DIRECTOR	HP-24	800	800	30	YES	5.0	1-1/4"	1-1/4"	3/4"	NO	YES
6	OFFICES 102N-Q	HP-24	750	750	50	YES	7.0	1-1/4"	1-1/4"	3/4"	NO	NO
7	OPEN OFFICES 102D	HP-24	750	750	125	YES	7.0	1-1/4"	1-1/4"	3/4"	NO	NO
8	RECEPTION 102, 102A, 102B	HP-18	600	600	125	YES	5.0	1-1/4"	1-1/4"	3/4"	NO	YES
IT	TELECOM	HP-60	1900	1900	0	NO	17.0	2"	2"	1"	NO	YES

M0213 VAV SCHEDULE			
BOX NUMBER	MAX CFM	MIN CFM	VAV SIZE
1-101	610	230	VAV-08
1-102	130	50	VAV-04
1-103	420	110	VAV-08
1-104	430	110	VAV-08
1-105	115	20	VAV-04
3A	400	100	VAV-08
3B	300	50	VAV-06
3C	300	50	VAV-06
3D	300	50	VAV-06
3E	300	50	VAV-06
3F	750	0	VAV-08

VAV AND BRANCH DUCTWORK RUNOUT SCHEDULE			
S-1	6"ø	E-1	6"ø
S-2	8"ø	E-1A	6"ø
S-3	10"ø	E-2	8"ø
S-4	12"ø	E-2A	8"ø
S-5	12"ø	E-3	10"ø
S-6	6"ø	E-3A	10"ø
S-7	12"ø	E-4	12"ø
S-8	12"ø	E-5	8"ø
S-9	12"ø	R-1	6"ø
S-10	10"ø	R-2	8"ø
S-11	SEE SCHEDULE	R-3	10"ø
S-12	SEE SCHEDULE	R-3A	10"ø
S-13	SEE SCHEDULE	R-4	12"ø
VAV-04	4"ø	R-4A	12"ø
VAV-06	6"ø	R-5	14"ø
VAV-08	8"ø	R-6	14"ø
VAV-10	10"ø	R-6A	14"ø
VAV-12	12"ø	R-7	12"ø QTY (2)
VAV-14	14"ø	R-8	12"ø
VAV-16	16"ø	R-9	N/A
VAV-24	24" X 16"	R-10	N/A

3 Mechanical Room 106 - Section A
1/4" = 1'-0"

4 Mechanical Room 106 - Section B
1/4" = 1'-0"

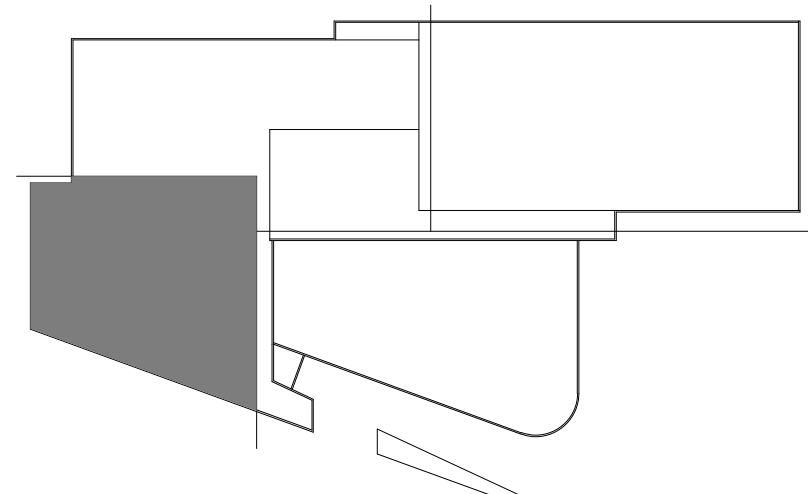
1 Level 01 - Air Distribution - Area C
1/8" = 1'-0"

Enlarged Mechanical Room 106 - Air Distribution
1/2" = 1'-0"

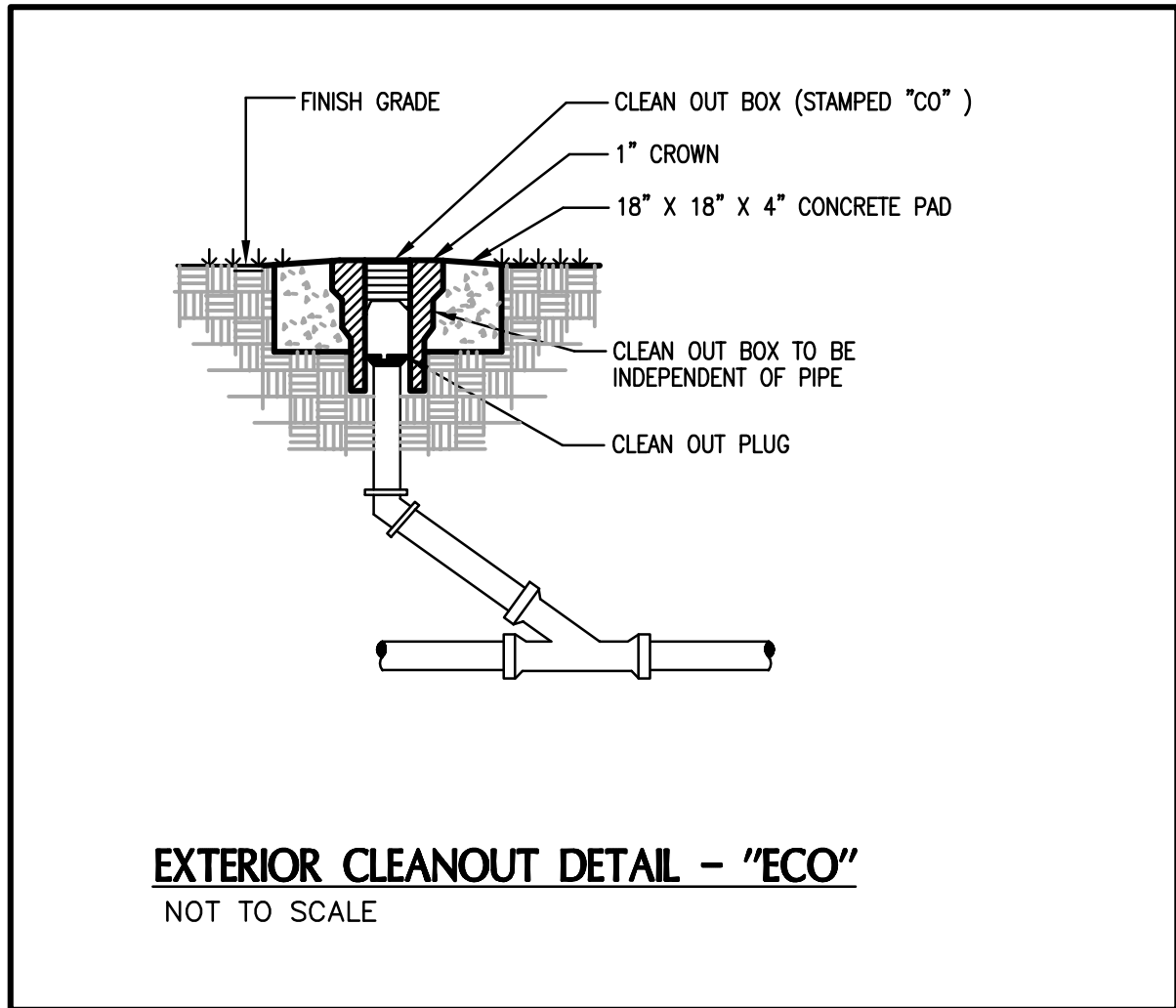
M0213 TAGGED NOTES

- REFERENCE HEAT PUMP INSTALLATION DETAIL ON SHEET M1102 FOR DUCTWORK CONNECTIONS AND PIPING DETAILS. PROVIDE 4" CONCRETE PAD UNDER UNIT. CONCRETE PAD SHALL EXTEND 4" ON ALL SIDES OF THE UNIT. REFER TO DRAWING M1102 FOR HEAT PUMP ACCESS REQUIREMENTS.
- PROVIDE HIGH EFFICIENCY TAKE-OFF ON SA/RA DUCTWORK. REFERENCE DETAIL ON SHEET M1101. TYPICAL OF ALL TAKE-OFFS.
- MAINTAIN MANUFACTURERS RECOMMENDED SERVICE CLEARANCE FOR ALL VAV BOXES. REFERENCE VAV BOX DETAIL ON SHEET M1101 FOR ADDITIONAL INFORMATION.
- COORDINATE FINAL DUCT ROUTING AND DIFFUSER LOCATIONS WITH I.T. EQUIPMENT IN THE SPACE.
- REFERENCE DUCT WALL PENETRATION DETAIL ON SHEET M1101 FOR PENETRATIONS LEAVING MECHANICAL SPACES. TYPICAL OF ALL DUCT PENETRATIONS THROUGH MECHANICAL ROOM WALLS (BOTH SIDES).
- DUCT MOUNTED STATIC PRESSURE SENSOR. REFERENCE SPECIFICATIONS FOR SENSOR AND SEQUENCE OF OPERATION.
- REFERENCE THERMOSTAT ELECTRICAL OUTLET COORDINATION DETAIL ON SHEET M1101.
- DUAL CONTACT OCCUPANCY SENSOR FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR AND WIRED TO THE BUILDING AUTOMATION SYSTEM. REFERENCE SPECIFICATION FOR SEQUENCE OF OPERATIONS.
- 10" DRYER VENT DUCT UP TO MEZZANINE LEVEL. REFER TO DRAWING M0223 FOR CONTINUATION. REFERENCE DUCT/ FLOOR PENETRATION DETAIL M1101 FOR MORE INFORMATION.
- ZONE CONTROL VAV BOX. REFERENCE CONTROLS SPECIFICATION FOR SEQUENCE OF OPERATIONS.
- OUTSIDE AIR BALANCE DAMPERS SHALL BE INSTALLED TO HEAT PUMP RETURN DUCT. REFER TO SCHEDULE ON THIS SHEET FOR BALANCING REQUIREMENTS. TYPICAL OF ALL OUTSIDE AIR DUCTED TO HEAT PUMP RETURN.
- REFER TO ENLARGED MECHANICAL ROOM 202 ON SHEET M0223 FOR CONTINUATION. ALL FLOOR PENETRATIONS REQUIRE A FIRE DAMPER. INSTALL AN ACCESS PANEL AND MAINTAIN SERVICE CLEARANCES.
- REFER TO DRAWING M0223 FOR CONTINUATION OF DUCTWORK CHASE IN STORAGE ROOM 200A. ALL FLOOR PENETRATIONS REQUIRE A FIRE DAMPER. INSTALL AN ACCESS PANEL AND MAINTAIN SERVICE CLEARANCES.
- AREA FOR PUMPS, PIPING, ETC. REFER TO ENLARGED PLANS ON M0404 FOR MORE INFORMATION.
- OFFSET HP-120 RETURN AIR DUCT TO MAINTAIN 3'-0" MINIMUM ELECTRICAL CLEARANCE.
- ELECTRICAL EQUIPMENT. MAINTAIN ALL REQUIRED CLEARANCES. NO DUCTWORK SHALL BE ROUTED OVER PANELS, DISCONNECTS, ETC. REFER TO THE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- OA-1 TOILET/GENERAL EXHAUST DAMPER AND AIRFLOW MEASURING STATION. REFER TO CONTROLS SPECIFICATIONS FOR SEQUENCE INFORMATION.
- MOTORIZED DAMPER FOR DRYER VENTILATION. DAMPER SHALL BE INTERLOCKED WITH BOTH DRYERS. UPON EITHER DRYER ACTIVATION, THE DAMPER SHALL OPEN AND BE PROVEN WITH A CONTACT SWITCH. REFER TO THE CONTROLS SPECIFICATIONS.
- REFER TO ARCHITECTURAL DRAWINGS FOR LOUVER INFORMATION.
- CONSTRUCT A 40" DEEP PLENUM FULL SIZE OF THE LOUVER OPENING WITH 20 GAUGE SHEET METAL. INSULATE WITH 2" RIGID INSULATION. BOTTOM OF PLENUM SHALL BE SLOPED TOWARDS LOUVER AS TO NO ENSURE NO STANDING WATER IN PLENUM.
- MOUNT FAN COIL UNIT TIGHT TO STRUCTURE. TRANSITION DUCT AT THE UNIT CONNECTIONS.
- MOUNT THE UNIT AS HIGH AS POSSIBLE. COORDINATE WITH THE ELECTRICAL EQUIPMENT IN THE ROOM.
- STUB THE 30X18 OUTSIDE AIR DUCT INTO THE DRYER ENCLOSURE. COORDINATE LOCATION WITH ARCHITECTURAL DETAILS. SEAL PENETRATION AIR TIGHT. INSULATE ENTIRE OUTSIDE AIR DUCT SERVING DRYERS PER THE SPECIFICATIONS.
- ZONE CONTROL DAMPER. REFER TO CONTROL SPECIFICATIONS.
- REFER TO THE SPECIFICATIONS FOR BALANCING REQUIREMENTS RELATED TO LEED IEQ CREDIT 5. ALL SENSOR WALL OPENINGS AND BACKBOXES SHALL BE SEALED AIR TIGHT.
- BAS LIGHTING CONTROL PANEL BY TCC. REFER TO DETAIL ON DRAWING E0412 FOR MORE INFORMATION. ELECTRICAL CONTRACTOR WIRING OCCUPANCY SENSORS TO THIS PANEL.
- DUCT SMOKE DETECTOR MOUNTED TO THE RETURN DUCT. COORDINATE INSTALLATION WITH THE FIRE ALARM CONTRACTOR.
- ALL CEILING DEVICES AND THEIR LOCATIONS IN SPACES 100 AND 101A SHALL BE COORDINATED WITH ARCHITECTURAL FINISHES AND CEILINGS TO BE PROVIDED BY OTHERS.
- MOUNT EXHAUST FAN TIGHT TO STRUCTURE. TRANSITION DUCT AT THE UNIT CONNECTIONS.
- ROUTE THE 8" EXHAUST DUCT TO THE 12" DEDICATED EXHAUST DUCT LOCATED IN CLASSROOM 110 SERVED BY EF-2.
- TERMINATE THE 12" EXHAUST DUCT WITH A 12" WALL CAP WITH INTEGRAL BACKDRAFT DAMPER AND BIRD SCREEN. WALL CAP SHALL HAVE KYNAR FINISH TO MATCH SAMPLE AND SHALL BE CENTERED ABOVE THE DOORWAY AT 12'-0" A.F.F. COORDINATE FINAL LOCATION WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION.

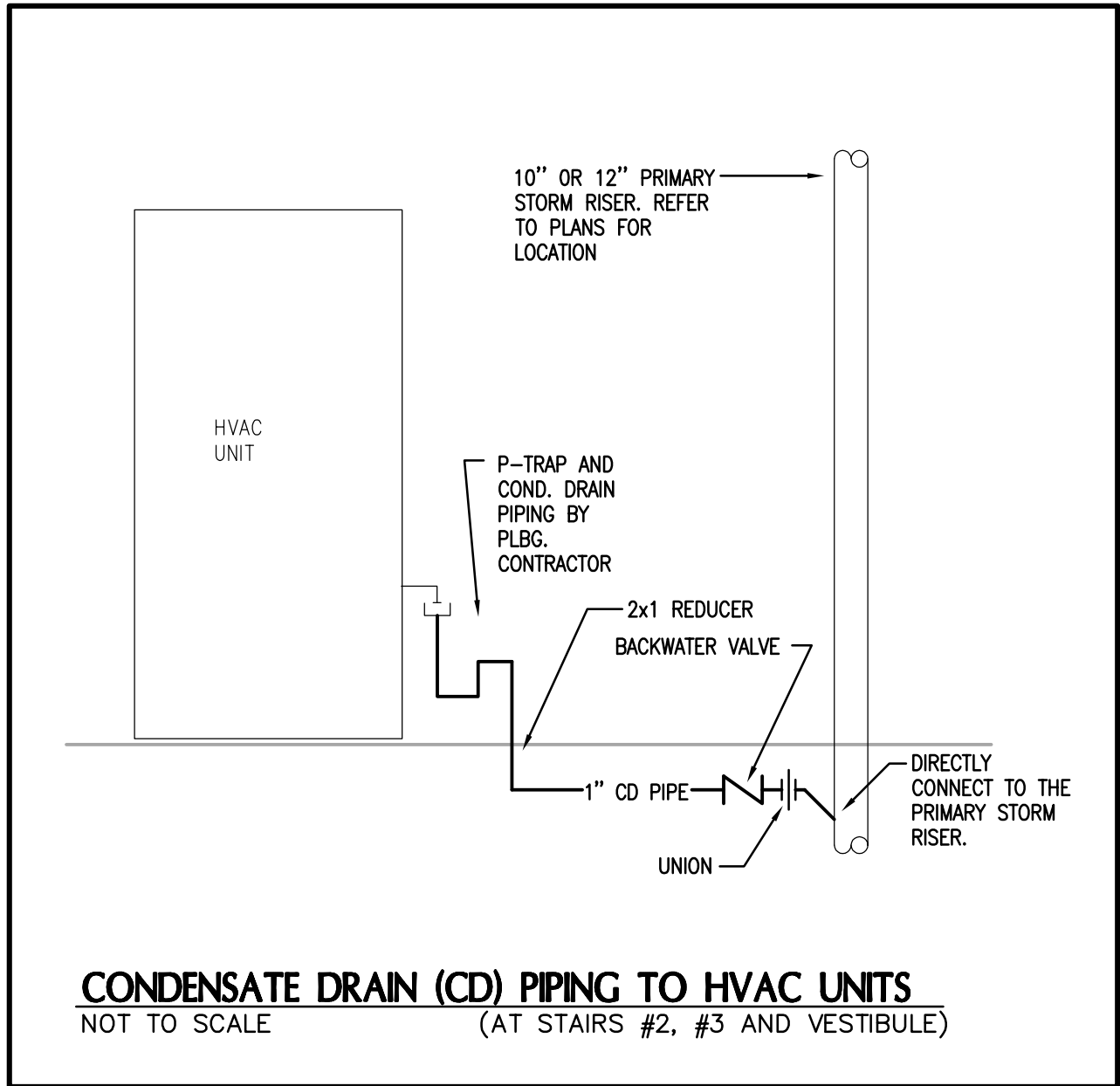
Keyplan



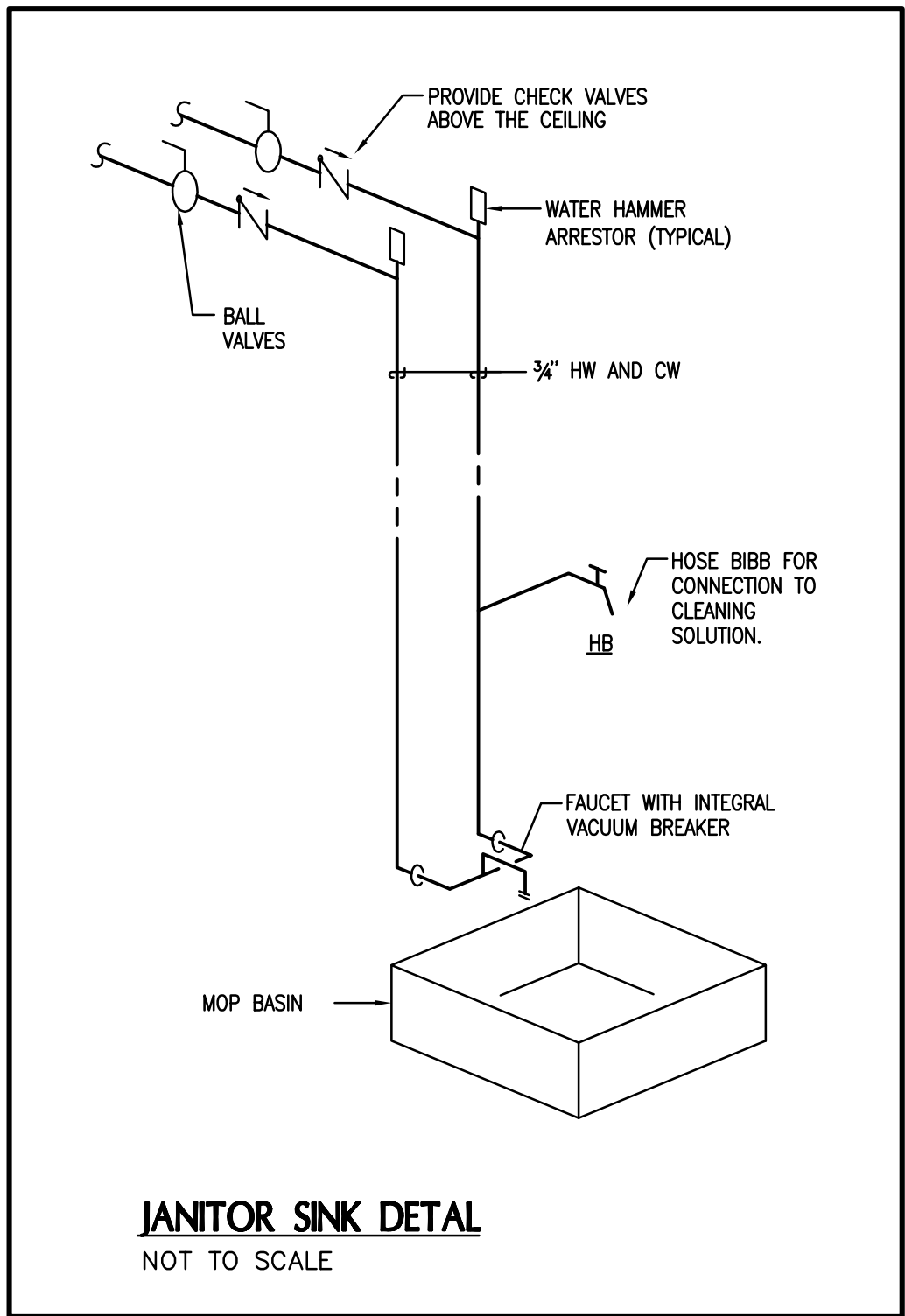
Drawing Name:	Level 01 - Air Distribution - Area C	#	Revision Date
U of L Project Number:			
Project Number:	03667.00		
Date:	January 2012		
Drawn By:	JAT	Checked By:	JEF



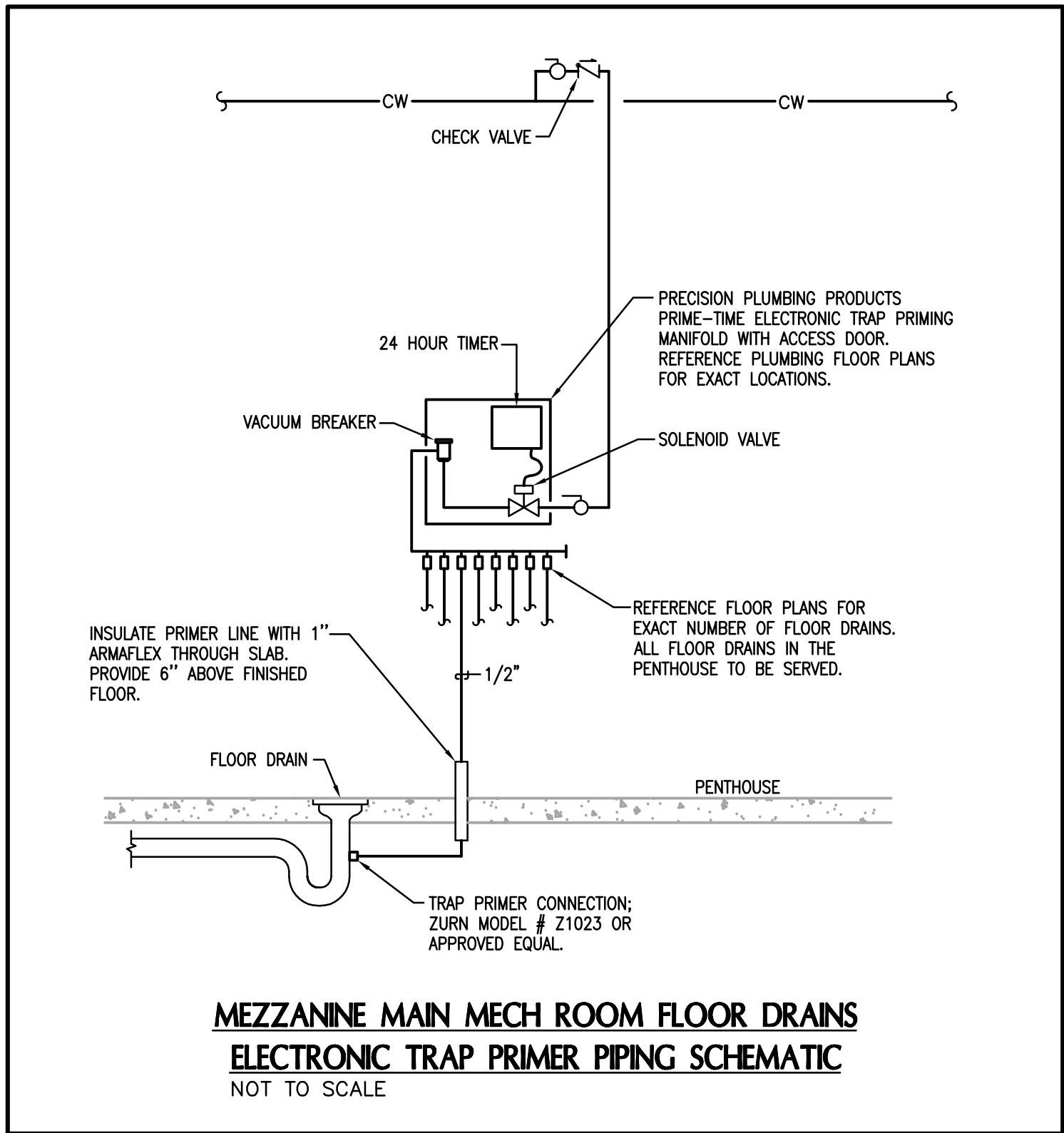
EXTERIOR CLEANOUT DETAIL - "ECO"
NOT TO SCALE



CONDENSATE DRAIN (CD) PIPING TO HVAC UNITS
NOT TO SCALE (AT STAIRS #2, #3 AND VESTIBULE)

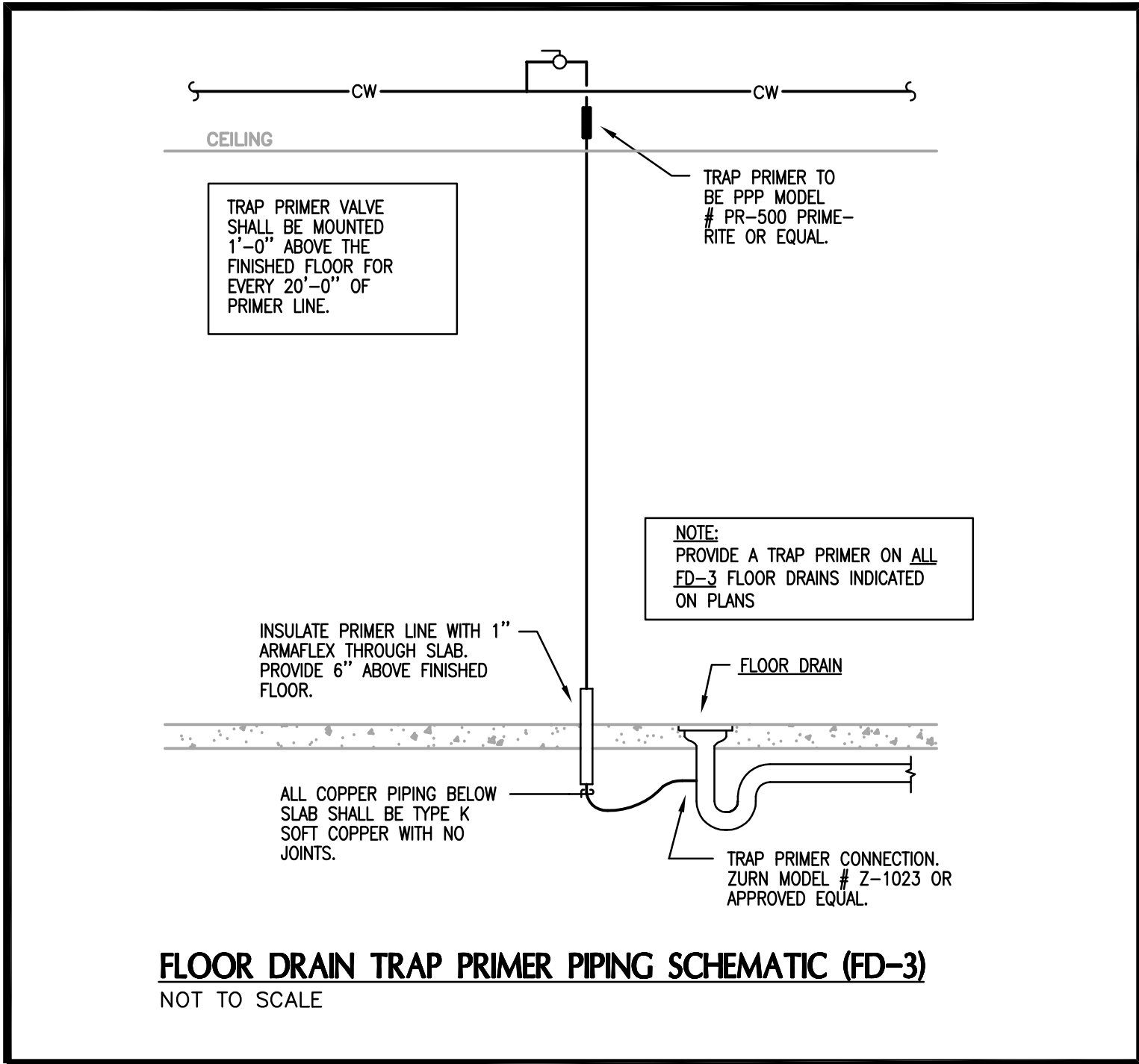


JANITOR SINK DETAIL
NOT TO SCALE

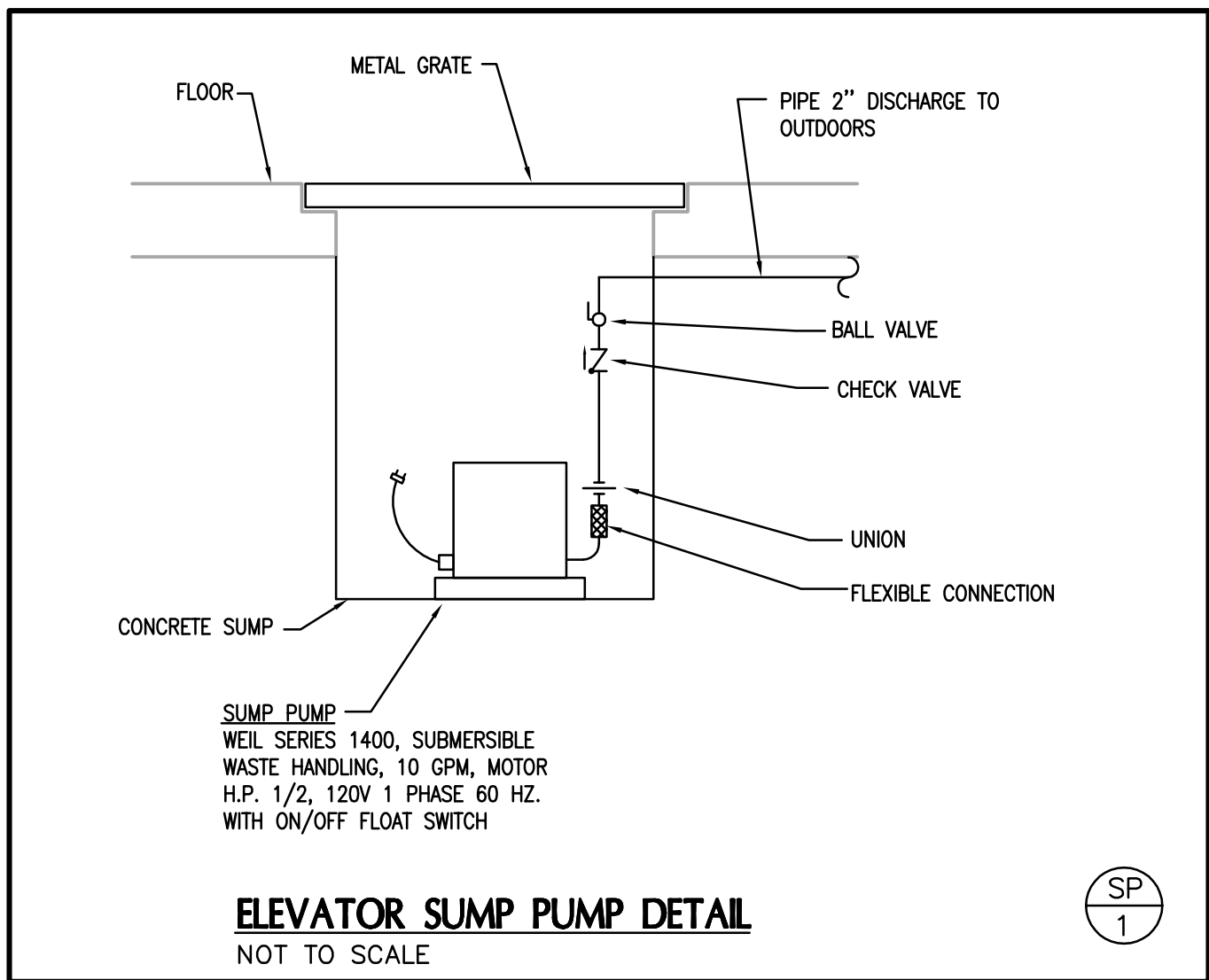


MEZZANINE MAIN MECH ROOM FLOOR DRAINS
ELECTRONIC TRAP PRIMER PIPING SCHEMATIC
NOT TO SCALE

PLUMBING LEGEND	
FLOOR DRAIN	FD
ROOF DRAIN	RD
OVERFLOW SCUPPER DRAIN	OSD
HOSE BIBB	HB
VENT THRU ROOF	VTR
WATER HAMMER ARRESTOR	WHA
WATER HEATER	WH
CLEANOUT	CO
EXTERIOR CLEANOUT	ECO
FREEZE PROOF WALL HYDRANT	FPWH
TYPICAL	TYP
NOT TO SCALE	NTS
ABOVE FINISHED FLOOR	AFF
POTABLE WATER PIPING	— W —
SANITARY PIPING	— SAN —
STORM PIPING	— SS —
DEDICATED GREASE WASTE PIPING	— GL —
NATURAL GAS PIPING	— G —
SANITARY VENT PIPING	— V —
DOMESTIC COLD WATER PIPING (CW)	— — — —
DOMESTIC HOT WATER (110°F.) PIPING (HW)	— — — —
DOMESTIC HOT WATER (110°F.) RETURN PIPING (HWR)	— — — —
RELIEF VALVE DISCHARGE PIPING	— RVD —
UNION	— U —
GATE VALVE	— G —
DIRECT DIGITAL CONTROL TEMP. SENSOR.	— DDC —
FLOW METER	— FM —
DIAL THERMOMETER	— D —
PRESSURE GAUGE	— P —
PIPING ELBOW (TURNED UP/DOWN)	— E —
PIPE TEE (TURNED UP/DOWN)	— T —
BALL VALVE	— B —
DOUBLE CHECK VALVE ASSEMBLY	— DCV —
CHECK VALVE	— C —
SAFETY OR RELIEF VALVE	— S —
REDUCED PRESSURE BACKFLOW PREVENTER	— RPB —

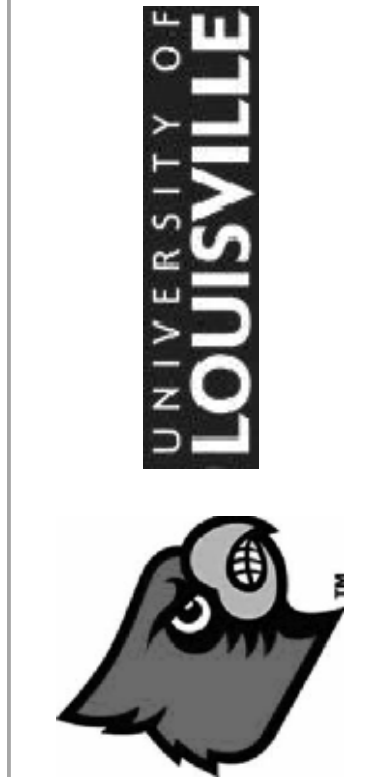


FLOOR DRAIN TRAP PRIMER PIPING SCHEMATIC (FD-3)
NOT TO SCALE



ELEVATOR SUMP PUMP DETAIL
NOT TO SCALE

Drawing Name:	Plumbing Legend and Schedules
U of L Project Number:	03667.00
Project Number:	January 2012
Date:	JEF
Drawn By:	JAT
Checked By:	JEF

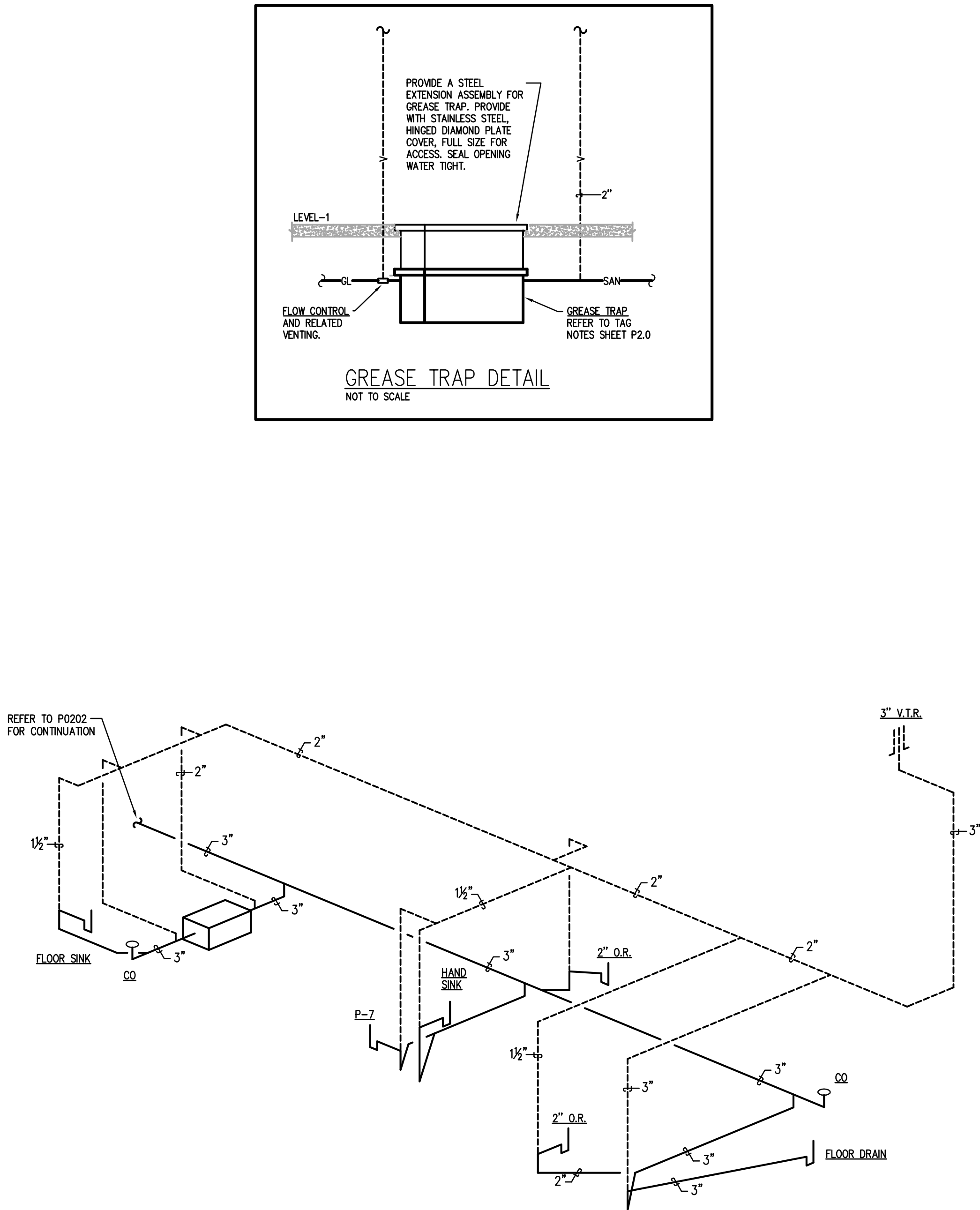


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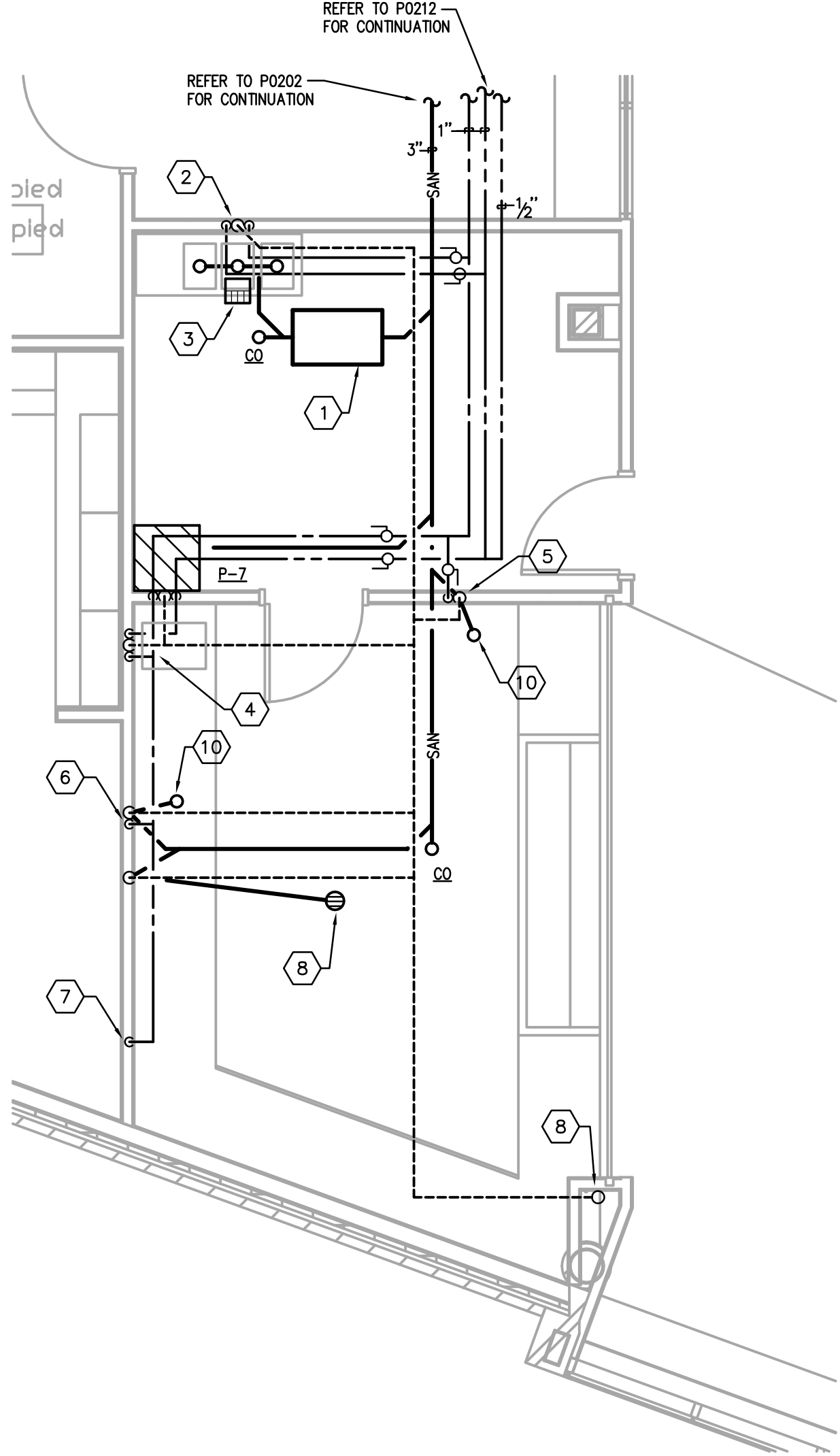
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SANITARY WASTE AND VENT RISER DIAGRAM — ZEBI CONCESSION
NOT TO SCALE



LEVEL 1 — ZEBI CONCESSION — PLUMBING
SCALE: 1/4" = 1'-0"

- TAG NOTES:**
- 1 NEW GREASE TRAP. INSTALL FLUSH WITH FLOOR AND PROVIDE EXTENSION RING AND RECESSED TOP TO ACCOMMODATE NEW FLOORING. ZURN Z1170-600-ET, 25 GPM AND 50# CAPACITY. PIPE IN ACCORDANCE TO THE KY. PLUMBING CODE. REFER TO THE GREASE TRAP DETAIL THIS SHEET FOR FURTHER REQUIREMENTS.
 - 2 1/2" CW & HW DN. TO 3-COMP SINK. PROVIDED BY KITCHEN EQUIPMENT SUPPLIER. SINK DRAIN PIPING TO FLOOR SINK. SHALL BE SUPPLIED WITH FLOW CONTROLS.
 - 3 FLOOR SINK: ZURN 1900, 3" BOTTOM OUTLET AND HALF GRATE.
 - 4 1/2" CW, HW, 1-1/2" SAN. TO HAND SINK, PROVIDED BY KITCHEN EQUIPMENT SUPPLIER.
 - 5 1/2" CW DN TO FILTER SYSTEM FOR ESPRESSO MACHINE.
 - 6 1/2" CW DN. TO UNDER COUNTER ICE MACHINE
 - 7 1/2" CW DN. TO COFFEE BREWER.
 - 8 FLOOR DRAIN: ZURN Z415, 3" OUTLET, TYPE B, NICKEL BRONZE STRAINER.
 - 9 3" V. UP. REFER TO P0222 FOR CONTINUATION.
 - 10 2" O.R. LOCATED IN FLOOR. PIPE ALL ADJACENT EQUIPMENT DRAINS TO THIS O.R.



UNIVERSITY OF
LOUISVILLE

Revision Date	
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Drawing Name:
U of L Project Number:
Project Number: 03667.00
Date: January 2012
Drawn By: JAT
Checked By: JEF

University of Louisville - Student Recreational Facility (Bid Package, Phase #4)

Louisville, Ky

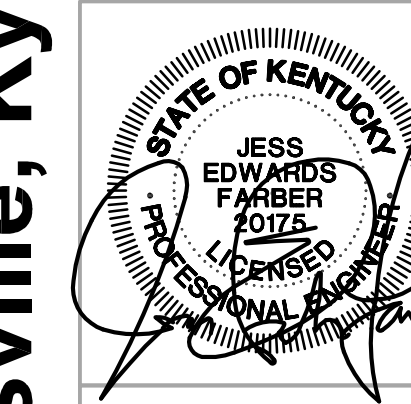
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P0301

GENERAL NOTES (APPLICABLE TO ALL WORK AND DOCUMENTS):	
1. EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO INSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.	25. COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, GAS OUTLETS, ETC. WITH ALL CASEWORK, KITCHEN EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).
2. ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC. MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSERS DISCRETION.	26. ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LABELED BY UNDERWRITER'S LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROVED AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT, UNLESS WAIVED BY THE ENGINEER IN WRITING.
3. INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC. IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING AND THE COLLECTION OF CONDENSATION THEREON. IF IN DOUBT, CONTACT THE ENGINEERS.	27. ALL WIRING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF SPICES. CONDUCTORS, WHETHER SINGLE OR MULTI-PAIR SHALL BE INSTALLED CONTINUOUSLY INSOFAR AS POSSIBLE FROM TERMINAL POINT TO TERMINAL POINT.
4. ADVISE THE ENGINEERS OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.	28. ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE OR SUB-SERVICE FOR SAFETY PURPOSES. PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC. OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
5. DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEERS AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE. (SEE ALSO NOTE 21).	29. ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES, EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN WRITING.
6. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.)	30. WHERE INTERRUPTING AN EXISTING UTILITY OR SERVICE DELIBERATELY OR ACCIDENTALLY, THE RESPONSIBLE CONTRACTOR SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME, PROVIDING PREMIUM TIME AS NEEDED.
7. INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORD WITH MANUFACTURERS' RECOMMENDATIONS AND DIRECTIONS, IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION.	31. REFER TO ARCHITECTURAL WALL ELEVATIONS (WHERE GIVEN) FOR HEIGHTS AND MOUNTING RELATIONSHIP OF OUTLETS AND EQUIPMENT. IF IN DOUBT, CONTACT THE ENGINEER FOR DIRECTION PRIOR TO INSTALLING WORK.
8. DO NOT RECESS PANELBOARD TUBS OR OTHER FLUSH-MOUNTED EQUIPMENT IN WALLS THAT HAVE A FIRE RATING, AS REQUIRED BY CODES. NO INSTALLATION SHALL DIMINISH OR VOID FIRE RESISTIVE RATINGS IN ANYWAY.	32. FLUSH OR PEDESTAL - TYPE FLOOR OUTLETS, AS INDICATED ON PLAN SHALL BE LOCATED BY DIMENSIONS PROVIDED BY THE ARCHITECT, UNLESS OTHERWISE SHOWN ON PLANS. IF IN DOUBT, CONTACT THE ENGINEER PRIOR TO ROUGHING-IN ANY WORK.
9. THE PURPOSE AND INTENT OF ALL OF THE DOCUMENTS PERTAINING THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.	33. AS APPLICABLE, REFER TO ARCHITECTURAL PHASING PLANS AND PHASING BOUNDARIES ON THESE DRAWINGS FOR SEQUENCING OF WORK, FULL EXTENT OF AREAS INVOLVED, EXTENT OF CEILING WORK, ETC. PROVIDE TEMPORARY CONNECTIONS FOR CIRCUITS AND WORK AS REQUIRED TO MAINTAIN SEQUENCE OF THE WORK FROM PHASE TO PHASE.
10. ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SATISFACTORILY, FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ENGINEER.	34. WHERE EXT LIGHTS ARE CONNECTED TO EMERGENCY CIRCUITS WITH KEYSWITCH OR CONTRACTOR CONTROL, AN UNSWITCHED LINE SHALL BE PULLED IN TO MAINTAIN THEIR OPERATION REGARDLESS OF SWITCH POSITION.
11. ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AS DOCUMENTED BY THE ENGINEERS, UNLESS LONGER WARRANTY PERIODS FOR EQUIPMENT ARE SPECIFIED.	35. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK. ALL CUTTING AND PATCHING SHALL BE IN ACCORD WITH THE ARCHITECT'S STANDARDS FOR SUCH WORK. ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT, CONTACT THE ENGINEER FOR CLARIFICATIONS PRIOR TO INSTALLING ANY SUCH WORK.
12. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORK WITH ARCHITECT.	36. INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR, UTILITY COMPANY AS NECESSARY, AND THE ARCHITECT, AT LEAST ONE WEEK IN ADVANCE OF ANTICIPATED INTERRUPTING A SERVICE. ALL SERVICES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED, TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED TWO WEEKS IN ADVANCE. IF UTILITY COMPANY REQUIRES A LONGER NOTIFICATION PERIOD, SO PROVIDE.
13. WHERE PENETRATING NEW/EXISTING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING INSTALLER/ARCHITECT.	37. LOCATE CHAIN-HUNG INDUSTRIAL FIXTURES IN MECHANICAL ROOMS TO AVOID DUCTWORK AND PIPING, TO MAXIMIZE AVAILABLE LIGHT, SPACE AROUND EQUIPMENT, AIR HANDLERS, ETC. TO PROVIDE ADEQUATE LIGHTING TO ALL AREAS OF ROOM. PROVIDE ADDITIONAL FIXTURES OF SAME TYPE AS NEEDED TO FULFILL THIS REQUIREMENT.
14. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, CASH CONTRIBUTIONS OR OTHER COSTS THAT THE UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (ELECTRIC, TELEPHONE, TELEVISION, ETC.)	38. WHERE EXT SIGNS OR EMERGENCY BATTERY PACKS ARE PROVIDED, THEY SHALL BE CONNECTED TO AN UNSWICHED LINE.
15. COORDINATE WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS AND CASEWORK DETAILS FOR LOCATION OF RECEPTACLES, UTILITY OUTLETS, ELECTRICAL DEVICES, ETC.	39. ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.
16. UNLESS OTHERWISE SPECIFIED OR INDICATED, INSTALL LIGHT FIXTURES, DIFFUSERS, REGISTERS, GRILLES, SPRINKLER HEADS, SMOKE DETECTORS AND OTHER CEILING MOUNTED APPURTENANCES IN THE CEILING IN A SYMMETRICAL PATTERN, UNLESS SPECIFICALLY INDICATED OTHERWISE.	40. REFER TO ARCHITECTURAL DETAILS AS APPLICABLE FOR RECESSED SOFFIT FLUORESCENT FIXTURES. ADJUST FIXTURE LENGTHS BY FIELD MEASUREMENT OF SOFFIT, AS NECESSARY.
17. CEILING-MOUNTED ELECTRICAL DEVICES SHALL BE CENTERED IN 2'X2' CEILING TILE AND INSTALLED CENTERED ON 2" DIMENSION OF 2'X4" TILE AND ON CENTERLINE OR A QUARTER POINT ON 4" DIMENSION, AS INDICATED.	41. WHERE OUTLETS ARE LOCATED APPROXIMATELY BACK-TO-BACK ON OPPOSITE SIDES OF A PARTY WALL, THE OUTLETS SHALL NOT BE INSTALLED IN THE SAME STUD SPACE, BUT SHALL BE SEPARATED BY A MINIMUM OF ONE STUD.
18. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER, NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTORS' EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.	42. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODES, NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION, THE REQUIREMENTS OF LOCAL UTILITY COMPANIES, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION, IF ANY CONFLICTS OR DISCREPANCIES OCCUR THE MOST STRINGENT SHALL APPLY.
19. CHECK ALL THREE PHASE MOTORS WITH A PHASE ROTATION METER, PRIOR TO PLACING IN SERVICE.	43. ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT, CONTACT THE ENGINEERS FOR CLARIFICATION PRIOR TO INSTALLING ANY SUCH WORK.
20. PROVIDE DETAILED SHOP DRAWINGS TO ENGINEERS PRIOR TO PURCHASING AND INSTALLING ANY EQUIPMENT.	44. DO NOT SCALE FROM DRAWINGS, AS PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.
21. DEVIATIONS IN SIZES, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.	
22. THE CONSTRUCTION MANAGER, GENERAL CONTRACTOR, OR WHOMEVER HOLDS THE PRIME CONTRACT(S) FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC., POOR OR UNTIMELY WORK ON THE PART OF ANY SUBCONTRACTOR SHALL BE RESOLVED BY THE PARTY WHO ENGAGED THEM ON THIS PROJECT.	
23. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE AFFECTING INSTALLATION. REFER TO ARCHITECTURAL WALL, INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS, AS APPLICABLE.	
24. WHERE FIRE RATED CEILING ASSEMBLIES ARE NOTED, PROVIDE RATED, APPROVED CYPSUM BOARD ENCLOSURES ABOVE LIGHT FIXTURES, CEILING DEVICES, ETC. IN OR ON CEILING, TO MAINTAIN CEILING RATINGS.	

BACKBOX SCHEDULE:

INDICATING NO.	SIZE REQUIRED
1G	4-11/16" SQUARE x 2-1/8" TWO-GANG BACKBOX (STEEL CITY #72171) WITH SINGLE-GANG 3/4" RAISED PLASTER EXTENSION RING.
2G	4-11/16" SQUARE x 2-1/8" TWO-GANG BACKBOX (STEEL CITY #72171) WITH TWO-GANG 3/4" RAISED PLASTER EXTENSION RING.
2G-A	6-13/16" x 4-11/16" x 1-5/8" TWO-GANG BACKBOX (STEEL CITY #2G) WITH TWO-GANG 3/4" RAISED PLASTER EXTENSION RING.
3G	8-5/8" W x 4-1/2" H x 2-1/2" D THREE-GANG BOX (STEEL CITY #3BD) WITH TWO-GANG 3/4" RAISED PLASTER EXTENSION RING.

SYSTEMS EQUIPMENT TERMINAL POINT NOTE:

- AT ALL SYSTEMS EQUIPMENT CABINET/TERMINAL BOARD LOCATIONS (EQUIP), AS INDICATED ON ELECTRICAL DRAWINGS, CONTRACTOR SHALL PROVIDE SIZE AND NUMBER OF CONDUIT SUB-OUTS TO CABLE PATHS AS REQUIRED FOR CABLING TERMINATE CONDUITS AT CABINETS/ON BACKBOARDS AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH CABLING INSTALLATION PRIOR TO CONSTRUCTION.

ALLOWANCE NOTE:

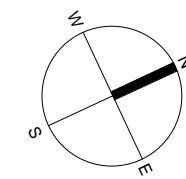
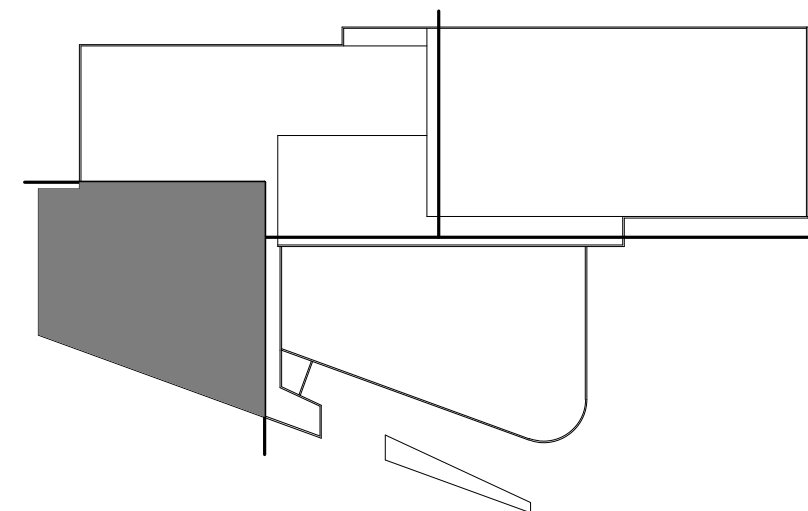
- THIS CONTRACTOR SHALL REFER TO DIVISION 1 SPECIFICATIONS FOR ALLOWANCES THAT SHALL BE INCLUDED BY THIS CONTRACTOR.

AUDIO/VIDEO SOUND SYSTEM NOTE:

- CONTRACTOR SHALL HAVE ON SITE COORDINATION MEETING WITH ENGINEER & UNIVERSITY KNOX PRIOR TO ROUGH-IN.
- ELECTRICAL CONTRACTOR SHALL PROVIDE (FURNISH AND INSTALL) ALL CONDUITS, JUNCTION BOXES, RACEWAYS, 120 VAC POWER, ETC FOR ALL WORK RELATED ON "E" DRAWINGS AND SPECIFICATIONS. REFER TO FLOOR PLANS, DETAILS AND RISERS ON "E" DRAWINGS FOR ALL REQUIRED WORK.

SYSTEM	ITEM	DEVICE MODEL & REFER TO SPECS IF NONE LISTED	BACKBOX COVER IF NONE LISTED	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
SYSTEM SWITCHES	LIGHT SWITCH: GENERAL PURPOSE			46"	
	PILOT LIGHT SWITCH (ILLUMINATED WHEN LOAD IS ON)			46"	
	DIMMER SWITCH			46"	
	THREE-WAY SWITCH			46"	
	FOUR-WAY SWITCH			46"	
	KEYED SWITCH			46"	
	MOMENTARY CONTACT SWITCH			46"	
	SINGLE THROW/DOUBLE POLE SWITCH			46"	
	WALL MOUNTED OCCUPANCY SENSOR			46"	
	PHOTO-CELL AS NOTED			AS NOTED	
LIGHTING	FLUORESCENT WALL MOUNT	SEE SCHEDULE		6'-6"	
	2'x2' FLUORESCENT TROFFER	SEE SCHEDULE		CEIL.	
	2'x4' FLUORESCENT TROFFER (RECESSED)	SEE SCHEDULE		CEIL.	
	DOWNLIGHT	SEE SCHEDULE		CEIL.	
	INDUSTRIAL STRIP FIXTURE	SEE SCHEDULE		CEIL.	
	EXIT LIGHT	SEE SCHEDULE		AS NOTED	
	UNDERCABINET	SEE SCHEDULE		AS NOTED	
	LINEAR DIRECT/INDIRECT	SEE SCHEDULE		AS NOTED	
	SIMPLEX			1'-6"	
	DUPLEX - TAMPER RESISTANT, SHUTTER TYPE			1'-6"	
POWER OUTLETS	DUPLEX			1'-6"	
	DUPLEX (ABOVE COUNTERTOP)			8" ACT.	
	DUPLEX WITH INTEGRAL GROUND FAULT PROTECTION			1'-6"	
	GANG RECEPTACLE IN COMBINATION WITH SWITCH (PROVIDE DIVIDER IF LIGHTING CIRCUIT IS 277V)			46"	
	QUADRIPOLEX RECEPTACLE			1'-6"	
	JUNCTION BOX				
	208/1Ø DRYER RECEPTACLE, NEMA 14-3ØR	HUBBELL #8430A (COOPER OR LEVITON EQUAL)		38"	
	208/3Ø RECEPTACLE, AS NOTED			1'-6"	
	DUPLEX - IN KITCHEN (SEE DETAIL)			FLOOR	
	DUPLEX - SURGE SUPPRESSOR TYPE			1'-6"	
MISC.	WEATHER RESISTANT DUPLEX - WITH LOCKABLE, WEATHER-PROOF, "WILE IN USE" DIE-CAST METAL COVER (INTERMATIC #W10104MC, RED DOT #2CM5V OR TAYMAC #MS2200)	120V, 20AMP, GFCI WEATHER RESISTANT DUPLEX, HUBBELL #W10120 COOPER #FW1020 LEVITON #W5919RE		2'-0"	
	CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE, (ARROWS) TO HOME RUNS & 4' RATED CIRCUITS, HASHMARKS INDICATE				
	DASHED LINES INDICATED CONDUIT SHALL BE ROUTED THROUGH ACCESSIBLE CRAWLSPACE, ACCESSIBLE CEILING SPACE OF FLOOR BELOW, OR AS OTHERWISE NOTED.				
	DISCONNECT SWITCH			5'-0"	
	MAGNETIC STARTER			5'-0"	
	MAGNETIC COMBINATION STARTER			5'-0"	
	ENCLOSED FLUSH MOUNTED MOLDED CASE CIRCUIT BREAKER			5'-0"	
	WEATHERPROOF				
	WIREWAY WITH REMOVABLE COVER (SIZE AS NOTED)	AS SHOWN		AS SHOWN	
	TRENCH DUCT (SIZE AS NOTED)	AS SHOWN		46"	
FLOOR BOXES	PUSHBUTTON STATION			46"	
	FLEXIBLE CONDUIT				
	NORMAL, PANELBOARD, SURFACE OR FLUSH MOUNTED			6'-6" TO TOP	
	TRANSFORMER			AS NOTED	
	NON-REVERSING 1Ø MOTOR STARTER SNAP SWITCH	SQUARE-D CLASS 250 OR SEMI-MOLDED CUTLER HAMMER EQUAL		AS NOTED	
	EQUIPMENT # INDICATOR				
	TAGGED NOTE				
	3/4" CONDUIT (U.L.N.) STUB UP TO CEILING TRAY ABOVE CEILING	SEE DETAILS			
	MECHANICAL EQUIPMENT DESIGNATOR (SEE MECH. SCHEDULES)				
	REVISION TAG				
JUNCTION BOX	JUNCTION BOX			AS NOTED	
	TERMINAL CABINET SURFACE OR FLUSH MOUNTED			AS SHOWN	
	CABLE TRAY AS NOTED	SEE DETAILS		AS SHOWN	
	BRIDLE RING CABLE PATH	SEE DETAILS		AS NOTED	
	DOORBELL PUSHBUTTON	AS NOTED		46"	
	DOORBELL AUDIO/VISUAL	AS NOTED		7'-6"	
	EQUIPMENT HARDWARE CONNECTION (SEE DETAIL)				
	EQUIPMENT OUTLET COUPLING CONNECTION (SEE DETAIL)				
	INTERCOM REMOTE STATION			46"	
	INTERCOM MASTER STATION				
MISC.	THERMOSTAT PROVIDED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN PER DETAIL ON SHEET #E101.			REFER TO DETAIL	
	TEMPERATURE SENSOR PROVIDED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN PER DETAIL ON SHEET #E101.			REFER TO DETAIL	
	GENERATOR ANNUNCIATOR				
	PLUMBING FIXTURE ELECTRIC EYE TRANSFORMER CONNECTION				
	PLUMBING FIXTURE SOLENOID VALVE/ ELECTRIC EYE SENSOR CONNECTION. COORDINATE EXACT CONNECTION REQUIREMENTS WITH MANUFACTURER.				
	DUAL TECHNOLOGY WIDE VIEW OCCUPANCY SENSOR, CEILING MOUNTED WITH AUXILIARY RELAY FOR BUILDING AUTOMATION SYSTEM CONTROL INTERFACE	WATTSTOPPER #0T-200 SENSORSWITCH #WV-PPT-R		CEL.	
	DUAL TECHNOLOGY 360° EXTENDED RANGE OCCUPANCY SENSOR, CEILING MOUNTED WITH AUXILIARY RELAY FOR BUILDING AUTOMATION SYSTEM CONTROL INTERFACE	WATTSTOPPER #0T-300 SENSORSWITCH #CM-PDT-10-R		CEL.	
	DUAL TECHNOLOGY 360° OCCUPANCY SENSOR, CEILING MOUNTED WITH AUXILIARY RELAY FOR BUILDING AUTOMATION SYSTEM CONTROL INTERFACE	WATTSTOPPER #0T-300 SENSORSWITCH #CM-PDT-10-R		CEL.	
	DUAL TECHNOLOGY 360° HIGH BAY OCCUPANCY SENSOR, CEILING MOUNTED WITH AUXILIARY RELAY FOR BUILDING AUTOMATION SYSTEM CONTROL INTERFACE	WATTSTOPPER #0T-300 SENSORSWITCH #CM-PDT-10-R		CEL.	
	DUAL TECHNOLOGY 360° OCCUPANCY SENSOR, CEILING MOUNTED	WATTSTOPPER #0T-300 SENSORSWITCH #W06		CEL.	
MISC.	ULTRASONIC 360° OCCUPANCY SENSOR, RECESSED CEILING MOUNTED	WATTSTOPPER #0T-300 SENSORSWITCH #W06		CEL.	
	POWER PACKS PROVIDE AS REQUIRED	WATTSTOPPER #B3470 SENSORSWITCH #PP20			
	EMERGENCY BY-PASS	SEE DETAILS		AT FIXTURE	

SYSTEM	ITEM	DEVICE MODEL # & REFER TO SPECS IF NONE LISTED	BACKBOX COVER IF APPLICABLE	MOUNTING HEIGHT (TO CENTER OF BOX)			
DATA / VOICE	DATA OUTLET: THE NUMBER BESIDE OUTLET INDICATES THE NUMBER OF DATA JACKS TO BE INSTALLED. IF NO NUMBER IS INDICATED, THERE SHALL BE ONLY ONE DATA JACK. (REFERENCE DETAIL SHEET #E1201)		1G	1'-6"			
	VOICE OUTLET: NUMBER BESIDE OUTLET INDICATES NUMBER OF VOICE JACKS TO INSTALL. IF NO NUMBER IS INDICATED, THERE SHALL BE ONLY ONE VOICE JACK. (REFERENCE DETAIL SHEET #E1201)		1G	1'-6"			
	DATA/VOICE OUTLET: NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA JACKS TO INSTALL. IF NO NUMBER IS INDICATED, THERE SHALL BE ONLY ONE DATA AND ONE VOICE JACK. (REFERENCE DETAIL SHEET #E1201)		1G	1'-6"			
	OUTLET: ABOVE COUNTERTOP			46"		ABV. CEIL.	
	OUTLET: WALL MOUNTED			46"			
	TELECOMMUNICATIONS SYSTEM BACKBOARD. PROVIDE 96" x 3/4" D FIRE-RETARDANT PLYWOOD BACKBOARD WITH TWO (2) COATS OF NON-CONDUCTIVE, FIRE-RETARDANT LIGHT GRAY PAINT, A 250 KWH TO METAL UNDERGROUND C.W. LINE AND A 6'-0" #3 AWC PIGTAIL AT BACKBOARD. (LENGTH OF BOARD AS INDICATED ON FLOOR PLAN)						
	MAIN DISTRIBUTION FRAME RACK						
	INTERMEDIATE DISTRIBUTION FRAME RACK						
	TELEVISION DISTRIBUTION HEAD END						
	WIRELESS ACCESS POINT, PROVIDE (1) DATA OUTLET FOR ANTENNA AT ACCESSIBLE LOCATION ABOVE CEILING. PROVIDED (1) LEVEL 6 CABLE BACK TO RACK MOUNTED PATCH PANEL. PROVIDE (1) DATA RECEPTACLE AND CONNECT BRANCH CIRCUIT TO NEAREST BRANCH CIRCUIT. PROVIDE 6"x8"x8" NEMA 1 ENCLOSURE WITH HINGED COVER.						
TELEVISION DISTRIBUTION CABINET							
LOCAL SOUND	WALL MICRO-PHONE OUTLET: SINGLE			1'-6"			
	WALL MICRO-PHONE OUTLETS(# AS NOTED)			1'-6"			
	FLOOR MICRO-PHONE OUTLET: SINGLE			FLOOR			
	FLOOR MICRO-PHONE OUTLETS(# AS NOTED)			FLOOR			
	GYM SYSTEM SOUND SPEAKER			CEIL.			
	GYM SYSTEM SOUND AMPLIFIER			9'-0" TO CENTER			
	CLASSROOM PROJECTOR SPEAKER						
FIRE ALARM	MAIN CONTROL PANEL			6'-6" TO TOP			
	CENTRAL PROCESSING UNIT (CPU)			4'-0" TO TOP			
	PULL STATION: DOUBLE ACTION WITH ST1 STOPPER 1 COVERS			4'-0" TO TOP			
	SPEAKER / 110db ADA STROBE						
	SPEAKER UNIT ONLY						
	110db ADA STROBE UNIT ONLY						
	PHOTO-ELECTRIC SMOKE DETECTOR			CEIL.			
	PHOTO-ELECTRIC SMOKE DETECTOR/HEAT DETECTOR FOR ELEVATOR CONTROL			CEIL.			
	HEAT DETECTOR			CEIL.			
	HEAT DETECTOR: 200° - RATE OF RISE			CEIL.			
	CEILING SPEAKER WITH FIRE LABEL			CEIL.			
	DOOR HOLDER: WALL TYPE			7'-0"			
	DOOR HOLDER: CLOSURE TYPE			7'-0"			
	DUCT SMOKE DETECTOR			DUCT			
	DUCT SMOKE DETECTOR TEST SWITCH			DUCT			
	CONNECTION TO SPRINKLER FLOW SWITCH WITH ADDRESSABLE MODULE			RESD.			
	CONNECTION TO SPRINKLER TAMPER SWITCH WITH ADDRESSABLE MODULE			RESD.			
	PRESSURE SWITCH			RESD.			
	POST INDICATOR VALVE			RESD.			
	REMOTE L.C.D. FIRE ALARM ANNUNCIATOR			RESD.			
	REMOTE TOLL COMMAND OPERATIONAL MODE	QRT/4X800		RESD.			
	REMOTE REPORTING TELEPHONE DIALER	PRINTER		RESD.			
	FLUSH - MOUNTED REMOTE ALARM INDICATING STATION			RESD.			
	*6P INDICATES DEVICE SHALL BE PROVIDED W/ 6" WIRE GROUND						
	*72P INDICATES DEVICE SHALL BE PROVIDED WITH VANDAL RESISTANT POLYCARBONATE PLATE						
	FLOOR BOXES	STAINLESS STEEL IN GRADE FLOOR BOX WITH COVER FOR ACCEPTING INSERT FOR FLOOR FINISH. COORDINATE EXACT COVER REQUIREMENTS WITH ARCHITECTURAL FINISHES. (2) DUPLEX RECEPTACLE, 2 DATA, AND CATV. PROVIDE HUBBELL-LCFBSSA SERIES, WIREMOLD EQUAL OR TABS EQUAL.	HUBBELL LCFBSSA			FLOOR	
		STAINLESS STEEL IN GRADE FLOOR BOX WITH COVER FOR ACCEPTING INSERT FOR FLOOR FINISH. COORDINATE EXACT COVER REQUIREMENTS WITH ARCHITECTURAL FINISHES. (2) DUPLEX RECEPTACLE, 2 DATA, AND 2 CATV JACKS. PROVIDE HUBBELL-LCFBSSA SERIES, WIREMOLD EQUAL OR TABS EQUAL.	HUBBELL LCFBSSA			FLOOR	
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		FIRE RATED POKE THOUGH FLOOR BOX. COORDINATE EXACT COVER REQUIREMENTS WITH ARCHITECTURAL FINISHES. (2) DUPLEX RECEPTACLE, 1 DATA, AND CATV JACKS. PROVIDE HUBBELL-LCFBSSA SERIES, WIREMOLD EQUAL OR TABS EQUAL.	HUBBELL SIF14X44L			FLOOR	
		FIRE RATED POKE THOUGH FLOOR BOX. COORDINATE EXACT COVER REQUIREMENTS WITH ARCHITECTURAL FINISHES. (2) DUPLEX RECEPTACLE, 1 DATA, AND 2 CATV JACKS. PROVIDE HUBBELL-LCFBSSA SERIES, WIREMOLD EQUAL OR TABS EQUAL.	HUBBELL SIF14X48RS			FLOOR	
FIRE RATED POKE THOUGH FLOOR BOX. COORDINATE EXACT COVER REQUIREMENTS WITH ARCHITECTURAL FINISHES. (2) DUPLEX RECEPTACLE, 2 DATA, AND 2 CATV JACKS. PROVIDE HUBBELL-LCFBSSA SERIES, WIREMOLD EQUAL OR TABS EQUAL.		HUBBELL SIF14X48RS		FLOOR			
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ABBREVIATIONS	UNLESS OTHERWISE NOTED						
	OWNER FURNISHED CONTRACTOR INSTALLED						
	OWNER FURNISHED CONTRACTOR INSTALLED						
VIDEO	VIDEO OUTLET ON WALL	SEE DETAILS	2G	6'-6"			
	VIDEO OUTLET ON CEILING	SEE DETAILS	2G	CEIL.			
	VIDEO OUTLET ON WALL	SEE DETAILS	2G	6'-6"			
	VIDEO OUTLET ON WALL	SEE DETAILS	2G	6'-6"			



E1 ACCESS CONTROL SYSTEM - REFER TO DOOR ROUGH-IN DETAIL FOR
CONDUIT/WIRE ROUTING AT EACH LOCATION.

E7 PROVIDE 30A/250V/3P HEAVY DUTY DISCONNECT SWITCH IN A NEMA-1
ENCLOSURE WITH DISCONNECT SWITCH FUSED AT EQUIPMENT NAMEPLATE
RATING.

E9 PROVIDE CONNECTION FROM FIRE ALARM SYSTEM FOR RELEASE OF MAG-
NETIC RELEASE OF FIRE EXTINGUISHER.

E11 SCORERS BENCH LOCATION PROVIDE BACKBOX AND CONDUIT TO GYM
SOUND SYSTEM FOR MICROPHONE INPUT REFER TO AUDIO DRAWING FOR
FURTHER REQUIREMENTS.

E12 PROVIDE BACK BOX AND 1/4" CONDUIT TO SCOREBOARD FOR
COMMUNICATION WITH SCORERS TABLE.

E18 PROVIDE 1" CONDUIT FROM PEDESTAL UNDER SLAB TO NEAREST WALL AND
SLUB UP TO ACCESSIBLE CEILING SPACE.

E20 ROUTE 1/4" CONDUIT FROM FLOOR BOXES UNDERSLAB TO IT ROOM 1212
FOR VIDEO AND DATA DISTRIBUTION.

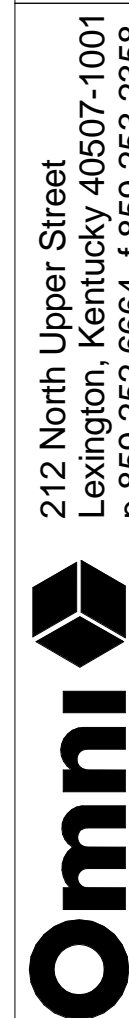
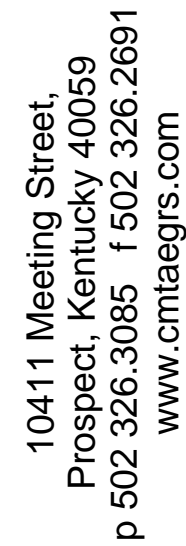
E37 PROVIDE DOUBLE GANG JUNCTION BOX AND 1/4" CONDUIT STUBBED ABOVE
CEILING FOR INTERCONNECTION WITH SMARTBOARD.

E38 PROVIDE ONLY FOR FUTURE - STUB CONDUIT WITH PULL STRING TO ABOVE
CEILING.

E39 PROVIDE PISTOL MOUNTED JUNCTION BOX FOR CONNECTION TO FUTURE
TELEVISION STALL CHECK IN TO CHANGING CLOSET.

E42 PROVIDE DOOR RELEASE BUTTON AT CHECK IN COUNTER FOR TURNSTILE
RELEASE.

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CANNONDESIGN



Drawing Name:	Level 1 - Power/Systems - Area C	#	Revision Date
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Drawn By:	A.ROWAN	Checked By:	T.HANS

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