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FIRE PROTECTION GENERAL NOTES:

- PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS. SYSTEM SHALL ALSO MEET ALL APPLICABLE BUILDING CODES, FIRE CODES AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIERS. VERIFY REQUIREMENTS PRIOR TO BID SUBMITTAL.
- INFORMATION ON CONTRACT DOCUMENTS IS GENERAL INFORMATION AND FOR BID PURPOSES ONLY. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE FINAL SYSTEM DESIGN AND LAYOUT OF ALL COMPONENTS. COORDINATION WITH ALL OTHER TRADES AND SYSTEM CALCULATIONS REQUIRED FOR APPROVAL BY THE AUTHORITY HAVING JURISDICTION, ENGINEER, AND OWNER/INSURER.
- THE CONTRACTOR SHALL FOLLOW THE ENGINEER'S RECORDS SYSTEM DESIGN AND LAYOUT OF ALL COMPONENTS EXCEPT WHERE MODIFICATION TO THE DESIGN IS NECESSARY. MODIF. EXTENSIONS SHALL BE REFLECTED IN THE CONTRACTOR'S SHOP DRAWINGS AND CALCULATIONS.
- DEVIATIONS FROM ENGINEER'S DESIGN WILL NOT BE CONSIDERED UNLESS A FORMALLY SUBMITTED RFI IS RECEIVED AND APPROVED.
- THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND LABOR REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS.
- WHERE EXISTING SYSTEMS ARE PRESENT, CONTRACTOR SHALL MODIFY, RELOCATE AND/OR PROVIDE ADDITIONAL EQUIPMENT AS REQUIRED FOR SCOPE OF WORK AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. COORDINATE WITH WALLS, CEILING LIGHTS, STRUCTURE, OBSTRUCTIONS, ETC. IN AREAS AFFECTED BY SCOPE OF WORK NEW EQUIPMENT SHALL BE COMPATIBLE WITH EXISTING SYSTEMS. CONTRACTOR SHALL REMOVE ALL ABANDONED EQUIPMENT, COORDINATE SYSTEM MODIF. EXTENSIONS TO MINIMIZE SYSTEM IMPAIRMENT AND PROVIDE FIRE WATCH AND/OR INTERIM PROTECTION MEASURES WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION, INSURANCE CARRIER OR OWNER.
- PROVIDE ADDITIONAL MATERIALS AND LABOR REQUIRED DUE TO LACK OF COORDINATION OR TO MEET AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
- FORWARD COMPLETED CERTIFICATE OF COMPLETION AND CONTRACTOR MATERIAL TEST CERTIFICATES TO THE OWNER.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

FIRE PROTECTION GENERAL DEMOLITION NOTES:

- COORDINATE ALL DEMOLITION WITH WHAT IS SHOWN ON ARCHITECTURAL PLANS, NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER OR OWNER AS DEFINED IN BID DOCUMENTS OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID. SUCH DETERMINATION, FAMILIARIZATION AND/OR ALLOWANCE.
- EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- OWNER RETAINS RIGHTS OF SALVAGE FOR EQUIPMENT AND FUTURES TO BE REMOVED. COORDINATE WITH THE OWNER THE EQUIPMENT AND FUTURES TO BE SALVAGED AND THE LOCATION FOR STORAGE. AVOID DAMAGE TO EQUIPMENT DURING DEMOLITION WORK AND DURING TRANSPORT TO OWNER'S DESIGNATED STORAGE LOCATION. PROPERLY DEREGISTER OF MATERIALS THAT ARE REMOVED AND ARE NOT REQUESTED TO BE SALVAGED BY THE OWNER.
- REMOVE ITEMS SHOWN HEAVILY LINED AND/OR CROSSHATCHED AND/OR NOTED TO BE REMOVED.
- EQUIPMENT TO BE REMOVED SHALL BE KEPT FOR REINSTALLATION DURING THE CONSTRUCTION PHASE WHEN POSSIBLE AND INDICATED ON THE DRAWINGS. AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN FOR NEW INSTALLATION. REPAIR ANY DAMAGE CAUSED DURING WORK AT NO EXTRA COST TO THE OWNER.
- SEAL PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS AND ROOFS WHERE COMPONENTS ARE REMOVED AND WHERE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION. REPAIR DAMAGED SURFACES TO MATCH ADJACENT AREAS OR AS INDICATED ON THE ARCHITECTURAL DRAWINGS.
- PERFORM ALL WORK ACCORDING TO THE PHASING SCHEDULE FOR THE PROJECT. PROVIDE ALL TEMPORARY DESIGN AND/OR CONFIGURATIONS THAT MEET APPLICABLE CODE REQUIREMENTS AS NECESSARY TO CONFORM TO THE REQUIRED CONSTRUCTION PHASING OF THE PROJECT.
- ONLY THE PORTIONS OF THE BUILDING AFFECTED BY THE SCOPE OF THE PROJECT HAVE BEEN SHOWN. INFORMATION SHOWN AS EXISTING TO REMAIN IS NOT BEING MODIFIED AS A PART OF THIS PROJECT.
- ALL WORK SHALL BE PERFORMED SO AS TO NOT INTERRUPT SERVICE. THE CONTRACTOR SHALL PREPARE AND NOTIFY THE BUILDING OWNER, LANDLORD, THE LEASER AND ADJACENT TENANTS AS APPLICABLE A MINIMUM OF 48 HOURS IN ADVANCE BEFORE PROCEEDING WITH THIS WORK.
- REMOVE ALL UNUSED AND DEMOLISHED EQUIPMENT AND ASSOCIATED MATERIALS FROM SITE, ABANDONING UNUSED PORTIONS WILL NOT BE ACCEPTABLE.
- SYSTEMS NOT ASSOCIATED WITH THE DEMOLITION SHALL BE LEFT IN SERVICE AS APPLICABLE.
- INSPECT EXISTING EQUIPMENT TO REMAIN TO VERIFY THAT EQUIPMENT IS OPERATING PROPERLY. NOTIFY OWNER OF DAMAGED AND/OR MALFUNCTIONING COMPONENTS.
- ALL SYSTEMS TO BE LEFT IN SERVICE PRIOR TO THE END OF EACH WORKDAY.

FIRE PROTECTION SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.

ABBREVIATIONS		V2.02
AFB	ABOVE FINISHED FLOOR	NC
AFD	ABOVE FINISHED GRADE	OC
CD	CANDELA	PIV
CH	DUCTILE IRON	PIV
ESFR	EARLY RESPONDER	PRV
ETR	EXISTING TO REMAIN	RD
FHC	FIRE HOSE CABINET	REV
FP	FIRE PROTECTION	SD
GC	CONTRACTOR	SE
GPR	GALLONS PER MINUTE	TYP
J-BOX	JUNCTION BOX	UNO
MAX	MAXIMUM	W
MIN	MINIMUM	WP
N/A	NOT APPLICABLE	WP
		OR CENTER
		POST INDICATOR VALVE
		PROVIDE FURNISH AND INSTALL
		PRESSURE REDUCING VALVE
		RETURN DUCT
		SUPPLY DUCT
		SQUARE FEET
		TYPICAL
		UNLESS NOTED OTHERWISE
		VOLTS
		WEATHERPROOF

ANNOTATION

- FIRE PROTECTION PLAN NOTE CALLOUT
- CONNECTION POINT OF NEW WORK TO EXISTING
- DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER
- SECTION CUT DESIGNATION
- DEDICATED EQUIPMENT ACCESS TILE
- ACCESS PANEL

FIRE ALARM

- FIRE ALARM CONTROL PANEL/LUMP
- RECESSED FIRE ALARM CONTROL PANEL/LUMP
- FIRE ALARM ANNUNCIATOR PANEL
- RECESSED FIRE ALARM ANNUNCIATOR PANEL
- AMPLIFIER PANEL
- REMOTE POWER SUPPLY
- REMOTE TEST STATION WITH INDICATING LIGHT
- REMOTE INDICATING LIGHT
- PRESSURE SWITCH LOW/HIGH
- WATERFLOW ALARM SWITCH
- CONTROL VALVE TAMPER SWITCH
- MAGNETIC DOOR HOLD OPEN DEVICE
- CONTROL MODULE
- MONITOR MIDDLE
- FIRE DEPARTMENT KEY BOX
- PULL STATION
- FIRE FIGHTERS PHONE JACK
- HEAT DETECTOR (I INDICATES ELEVATOR RECALL)
- SMOKE DETECTOR (E INDICATES ELEVATOR RECALL)
- SINGLE STATION SMOKE DETECTOR
- PROJECTED BEAM SMOKE DETECTOR
- DUCT MOUNTED SMOKE DETECTOR (SD=SUPPLY/RETURN)
- CARBON MONOXIDE DETECTOR
- AREA OF REFUGE 2-WAY COMMUNICATION SYSTEM
- WALL MOUNTED AUDIBLE NOTIFICATION APPLIANCE #W INDICATES WATTAGE (VOICE EVACUATION SYSTEMS ONLY)
- WALL MOUNTED VISIBLE NOTIFICATION APPLIANCE #I INDICATES CANDELA
- WALL MOUNTED AUDIBLE/VISIBLE NOTIFICATION APPLIANCE #W INDICATES WATTAGE (VOICE EVACUATION SYSTEMS ONLY)
- CEILING MOUNTED AUDIBLE NOTIFICATION APPLIANCE #W INDICATES WATTAGE (VOICE EVACUATION SYSTEMS ONLY)
- CEILING MOUNTED VISIBLE NOTIFICATION APPLIANCE #I INDICATES CANDELA
- CEILING MOUNTED AUDIBLE/VISIBLE NOTIFICATION APPLIANCE #W INDICATES WATTAGE (VOICE EVACUATION SYSTEMS ONLY)
- END OF LINE RESISTOR
- ABORT SWITCH
- BELL

CALL OUTS



LINETYPE LEGEND

THROUGHOUT THE DRAWINGS DIFFERENT LINETYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE MEAN IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO BE CONSIDERED THE FINAL NECESSARY CONSTRUCTION PHASING. WHEN BEING DETERMINED BY THE CONTRACTOR AND/OR OWNER, THEIR RESPONSIBILITIES, ANY SUCH PHASING DESCRIBED IN THE CONSTRUCTION DOCUMENTS IS GENERAL AND ONLY INTENDED TO PROVIDE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.

EXISTING	NEW
DEMOLISH	FUTURE

STANDARD MOUNTING HEIGHTS

AUDIBLE APPLIANCE (TOP OF APPLIANCE)	90"
FIRE ALARM ANNUNCIATOR PANEL (TOP OF DISPLAY)	40"
FIRE ALARM BELL (EXT-INT) (CENTERLINE)	120"
FIRE ALARM CONTROL PANEL (TOP OF DISPLAY)	40"
PULL STATION (TOP OF DEVICE)	48"
VISIBLE APPLIANCE (CENTERLINE)	84"

INSTALL DEVICES AT THE MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ABOVE OR ELSEWHERE IN THE CONSTRUCTION DOCUMENTS ARE AFF OR AFS UNO. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.



01/25/2022
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DATE DESCRIPTION
UNIVERSITY HOUSE
 PITTSBURGH STATE UNIVERSITY
 BUILDING NUMBER: 385004-0220
CONSTRUCTION DOCUMENTS
 1/25/2022
 1/25/2022

FIRE ALARM GENERAL NOTES AND LEGEND

DATE	01-25-2022
DESIGN	Author
CHECK	Checker
DRAWN	1/25/2022
SCALE	1/25/2022

FA000

A/B/C/D/E

6 5 4 3 2 1

- FIRE ALARM PLAN NOTES:**
- F1 HATCHED AREA NOT IN SCOPE OF WORK.
 - F2 NEW SMOKE DETECTOR TO BE PROVIDED AND INSTALLED IN ACCORDANCE WITH IBC - 2018 AND NFPA 72. THE NEW SMOKE DETECTORS ARE TO BE CONNECTED TO THE EXISTING FIRE SECURITY SYSTEM. SMOKE DETECTORS IN SLEEPING AREAS SHALL BE PROVIDED WITH SOUNDER BASE TO COMPLY WITH NFPA 72 LOW FREQUENCY ALARM SIGNAL OUTPUT.
 - F3 DEMOLISH EXISTING FIRE ALARM AND SECURITY PANELS. PROVIDE NEW COMBINED FIRE ALARM SECURITY PANEL AND CONTROL PANEL. 10 FEET CABLE TO PROVIDE REMOTE ANNUNCIATION. RECONNECT DEVICES THAT ARE EXISTING TO REMAIN.
 - F4 EXISTING SMOKE DETECTOR TO BE DEMOLISHED. NEW SMOKE DETECTOR TO BE PROVIDED AND INSTALLED IN ACCORDANCE WITH IBC - 2018 AND NFPA 72. THE NEW SMOKE DETECTOR SHALL BE PROVIDED WITH SOUNDER BASE TO COMPLY WITH NFPA 72 LOW FREQUENCY ALARM SIGNAL OUTPUT.
 - F5 EXISTING NOTIFICATION APPLIANCES TO REMAIN. RECONNECT APPLIANCES TO NEW COMBINED FIRE ALARM SECURITY PANEL.
 - F6 DEMOLISH EXISTING FIRE ALARM AND SECURITY PANELS. VISUAL NOTIFICATION SHALL BE A MINIMUM OF 177 CANDLEA FOR SLEEPING AREAS IN ACCORDANCE WITH NFPA 72.
 - F8 DEMOLISH EXISTING COMBINATION SMOKE DETECTOR VISUAL NOTIFICATION APPLIANCE. PROVIDE NEW 177 CANDLEA APPLIANCE AT A MINIMUM OF 177 CANDLEA FOR SLEEPING AREAS IN ACCORDANCE WITH NFPA 72.

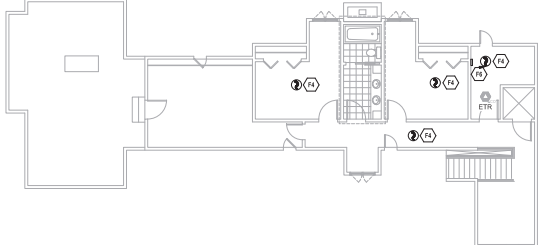
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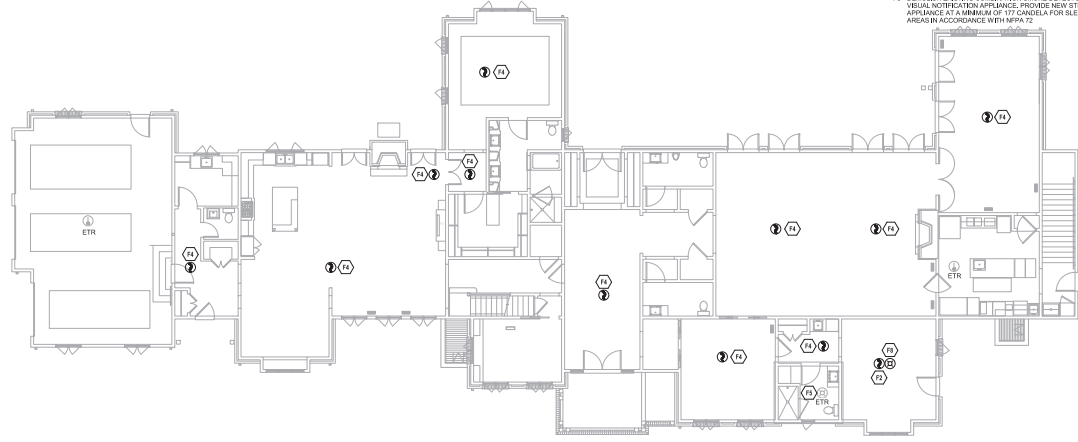
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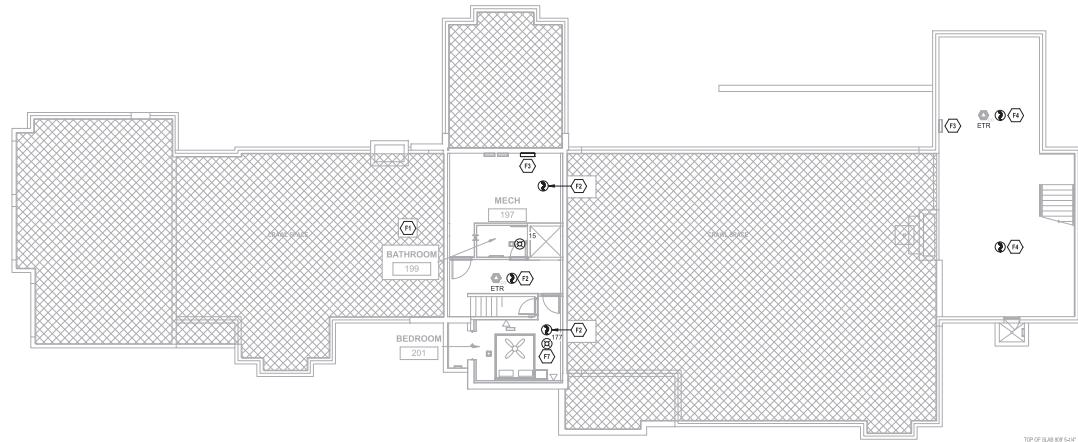
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① FIRE ALARM SECOND FLOOR RCP
 1/8" = 1'-0"
 SCALE: 1/8" = 1'-0"



② FIRE ALARM FIRST FLOOR RCP - OVERALL
 1/8" = 1'-0"
 SCALE: 1/8" = 1'-0"



③ FIRE ALARM BASEMENT RCP
 1/8" = 1'-0"
 SCALE: 1/8" = 1'-0"

#	DATE	DESCRIPTION
		UNIVERSITY HOUSE
		PITTSBURGH STATE UNIVERSITY PITTSBURGH, KANSAS Building Number: 385004-0220
		CONSTRUCTION DOCUMENTS
		1/8" = 1'-0" (unless otherwise noted)
		
		FIRE ALARM PLAN
DATE	01-28-2022	
AUTHOR	DKP	CHECKER
DRAWN BY	DKP	INCHES
NO.		
FA101		

STEVE JORDAN

APPLICABLE ELECTRICAL CODES:
 NOTED: THIS PROJECT IS TO BE COMPLETED IN COMPLIANCE WITH THE FOLLOWING CODES. THIS IS NOT AN EXHAUSTIVE LIST. PROJECT SHALL COMPLY WITH ALL APPLICABLE ELECTRICAL CODES, STANDARDS AND LOCAL REQUIREMENTS, REFERRING TO THE SPECIFICATIONS FOR FURTHER REQUIREMENTS.

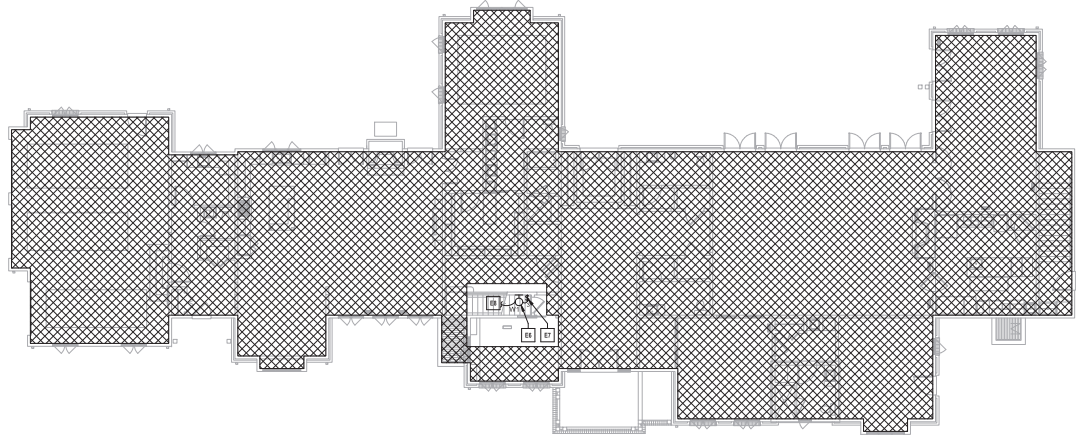
1. EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND FIELD NOTES AND MAY NOT REPRESENT ACTUAL FIELD CONDITIONS. VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BID. COORDINATE NEW AND MODIFICATION WORK WITH ALL OTHER TRADES AND EXISTING CONDITIONS.
2. NOTIFY ARCHITECT, ENGINEER AND OWNER AS APPLICABLE IF ANY EMERGENCY CONDITIONS EXIST ON OR BEFORE ANY OCCUPANCY OR REMODEL WORK BEGINS.
3. COORDINATE ANY NECESSARY POWER OUTAGES WITH THE LANDLORD AND OWNER AND MAKE EVERY ATTEMPT TO SCHEDULE DURING NONBUSINESS OR OFF-PEAK BUSINESS HOURS TO MINIMIZE DISRUPTION TO BUSINESS OPERATIONS. REQUEST FOR ELECTRICAL WORK TO BE SCHEDULED TO OCCUR DURING OFF-PEAK BUSINESS HOURS TO MINIMIZE DISRUPTION TO BUSINESS OPERATIONS. THE LANDLORD'S EQUIPMENT SHALL BE PROTECTED IN WRITING TO THE LANDLORD'S SATISFACTION AT LEAST 30 DAYS IN ADVANCE. SHUTDOWNS SHALL NOT BE PERFORMED WITHOUT WRITTEN APPROVAL FROM THE LANDLORD.
4. FOR AREAS AND EQUIPMENT WITHIN THE SCOPE OF THIS REMODEL: EXISTING ELECTRICAL EQUIPMENT AND CIRCUITRY MAY BE REUSED IN GOOD CONDITION AND NEW DESIGN REQUIREMENTS CAN BE MET; OTHERWISE REPLACE.
5. FOR AREAS AND EQUIPMENT WITHIN THE SCOPE OF THIS REMODEL: REPAIR OR REPLACE ANY EXISTING DAMAGED OR RECALLED ELECTRICAL EQUIPMENT LIGHT FIXTURES, WIRING DEVICES AND RELATED CIRCUITRY AND RESTORE ALL ELECTRICAL SYSTEMS TO PROPER WORKING ORDER. THE FINAL ELECTRICAL INSTALLATION SHALL BE FREE FROM ELECTRICAL DEFECTS TO THE SATISFACTION OF THE AIA, OWNER, ARCHITECT AND ENGINEER.

ABBREVIATIONS

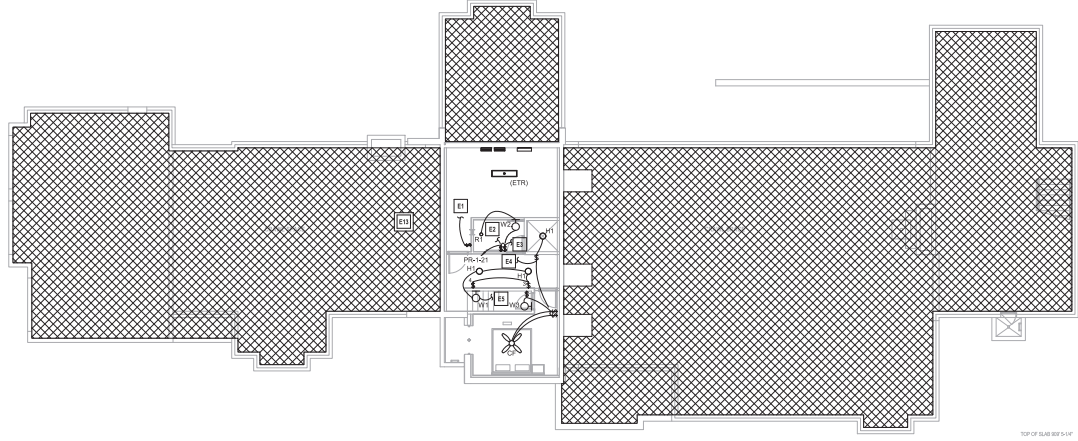
AF	AMPERE FUSE SIZE	MCC	MOTOR CONTROL CENTER
AFB	ABOVE FINISHED CEILING	MFR	MANUFACTURER
AFI	ABOVE FINISHED FLOOR	MIR	MIRRORED
AFV	ABOVE FINISHED GRADE	MLO	MAN LOW VOLTAGE
AN	AUTOMATIC	MOC	MINIMUM OVERCURRENT PROTECTION
AHU	AIR HANDLING UNIT	MOP	MAXIMUM OVERCURRENT PROTECTION
AI	AMPERE INTERRUPTING CAPACITY	MTD	NOT MOUNTED
AS	AMPERE SWITCH SIZE	NF	NOT APPLICABLE
AT	AMPERE TRIP SETTING	NR	NOT RECOMMENDED
AVS	AUTOMATIC TRANSFER SWITCH	NRTL	NATIONALLY RECOMMENDED TEST LABORATORY
AFC	AUTOMATIC FEEDBACK CONTROL	NTS	NOT TO SCALE
B	BREAKER	OS	OCCUPANCY SCHEDULE
BR	BREAKER	P	PANEL
CAT	CATEGORY	PH3	PHASE
CB	CABLE TELEVISION SYSTEM	PH4	PHASE
CCTV	CLOSED CIRCUIT TELEVISION	PH5	PHASE
CCT	CIRCUIT	PH6	PHASE
CODE	APPLICABLE CODE	PH7	PHASE
CT	CENTER	PH8	PHASE
CTR	CENTER	PH9	PHASE
CTD	CONDUIT TYPE	PH10	PHASE
CTE	CONDUIT TYPE	PH11	PHASE
CTF	CONDUIT TYPE	PH12	PHASE
CTG	CONDUIT TYPE	PH13	PHASE
CTH	CONDUIT TYPE	PH14	PHASE
CTI	CONDUIT TYPE	PH15	PHASE
CTJ	CONDUIT TYPE	PH16	PHASE
CTK	CONDUIT TYPE	PH17	PHASE
CTL	CONDUIT TYPE	PH18	PHASE
CTM	CONDUIT TYPE	PH19	PHASE
CTN	CONDUIT TYPE	PH20	PHASE
CTO	CONDUIT TYPE	PH21	PHASE
CTP	CONDUIT TYPE	PH22	PHASE
CTQ	CONDUIT TYPE	PH23	PHASE
CTR	CONDUIT TYPE	PH24	PHASE
CTS	CONDUIT TYPE	PH25	PHASE
CTT	CONDUIT TYPE	PH26	PHASE
CTU	CONDUIT TYPE	PH27	PHASE
CTV	CONDUIT TYPE	PH28	PHASE
CTW	CONDUIT TYPE	PH29	PHASE
CTX	CONDUIT TYPE	PH30	PHASE
CTY	CONDUIT TYPE	PH31	PHASE
CTZ	CONDUIT TYPE	PH32	PHASE
CU	COPPER	PH33	PHASE
CV	CIRCUIT BREAKER	PH34	PHASE
CV1	CIRCUIT BREAKER	PH35	PHASE
CV2	CIRCUIT BREAKER	PH36	PHASE
CV3	CIRCUIT BREAKER	PH37	PHASE
CV4	CIRCUIT BREAKER	PH38	PHASE
CV5	CIRCUIT BREAKER	PH39	PHASE
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CV112	CIRCUIT BREAKER	PH146	PHASE
CV113	CIRCUIT BREAKER	PH147	PHASE
CV114	CIRCUIT BREAKER	PH148	PHASE
CV115	CIRCUIT BREAKER	PH149	PHASE
CV116	CIRCUIT BREAKER	PH150	PHASE
CV117	CIRCUIT BREAKER	PH151	PHASE
CV118	CIRCUIT BREAKER	PH152	PHASE
CV119	CIRCUIT BREAKER	PH153	PHASE
CV120	CIRCUIT BREAKER	PH154	PHASE
CV121	CIRCUIT BREAKER	PH155	PHASE
CV122	CIRCUIT BREAKER	PH156	PHASE
CV123	CIRCUIT BREAKER	PH157	PHASE
CV124	CIRCUIT BREAKER	PH158	PHASE
CV125	CIRCUIT BREAKER	PH159	PHASE
CV126	CIRCUIT BREAKER	PH160	PHASE
CV127	CIRCUIT BREAKER	PH161	PHASE
CV128	CIRCUIT BREAKER	PH162	PHASE
CV129	CIRCUIT BREAKER	PH163	PHASE
CV130	CIRCUIT BREAKER	PH164	PHASE
CV131	CIRCUIT BREAKER	PH165	PHASE
CV132	CIRCUIT BREAKER	PH166	PHASE
CV133	CIRCUIT BREAKER	PH167	PHASE
CV134	CIRCUIT BREAKER	PH168	PHASE
CV135	CIRCUIT BREAKER	PH169	PHASE
CV136	CIRCUIT BREAKER	PH170	PHASE
CV137	CIRCUIT BREAKER	PH171	PHASE
CV138	CIRCUIT BREAKER	PH172	PHASE
CV139	CIRCUIT BREAKER	PH173	PHASE
CV140	CIRCUIT BREAKER	PH174	PHASE
CV141	CIRCUIT BREAKER	PH175	PHASE
CV142	CIRCUIT BREAKER	PH176	PHASE
CV143	CIRCUIT BREAKER	PH177	PHASE
CV144	CIRCUIT BREAKER	PH178	PHASE
CV145	CIRCUIT BREAKER	PH179	PHASE
CV146	CIRCUIT BREAKER	PH180	PHASE
CV147	CIRCUIT BREAKER	PH181	PHASE
CV148	CIRCUIT BREAKER	PH182	PHASE
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CV168	CIRCUIT BREAKER	PH202	PHASE
CV169	CIRCUIT BREAKER	PH203	PHASE
CV170	CIRCUIT BREAKER	PH204	PHASE
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CV172	CIRCUIT BREAKER	PH206	PHASE
CV173	CIRCUIT BREAKER	PH207	PHASE
CV174	CIRCUIT BREAKER	PH208	PHASE
CV175	CIRCUIT BREAKER	PH209	PHASE
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CV177	CIRCUIT BREAKER	PH211	PHASE
CV178	CIRCUIT BREAKER	PH212	PHASE
CV179	CIRCUIT BREAKER	PH213	PHASE
CV180	CIRCUIT BREAKER	PH214	PHASE
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CV183	CIRCUIT BREAKER	PH217	PHASE
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CV187	CIRCUIT BREAKER	PH221	PHASE
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CV189	CIRCUIT BREAKER	PH223	PHASE
CV190	CIRCUIT BREAKER	PH224	PHASE
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CV193	CIRCUIT BREAKER	PH227	PHASE
CV194	CIRCUIT BREAKER	PH228	PHASE
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CV196	CIRCUIT BREAKER	PH230	PHASE
CV197	CIRCUIT BREAKER	PH231	PHASE
CV198	CIRCUIT BREAKER	PH232	PHASE
CV199	CIRCUIT BREAKER	PH233	PHASE
CV200	CIRCUIT BREAKER	PH234	PHASE
CV201	CIRCUIT BREAKER	PH235	PHASE
CV202	CIRCUIT BREAKER	PH236	PHASE
CV203	CIRCUIT BREAKER	PH237	PHASE
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CV213	CIRCUIT BREAKER	PH247	PHASE
CV214	CIRCUIT BREAKER	PH248	PHASE
CV215	CIRCUIT BREAKER	PH249	PHASE
CV216	CIRCUIT BREAKER	PH250	PHASE
CV217	CIRCUIT BREAKER	PH251	PHASE
CV218	CIRCUIT BREAKER	PH252	PHASE
CV219	CIRCUIT BREAKER	PH253	

LIGHT FIXTURE SCHEDULE									
TYPE	MANUFACTURER / MODEL #	APPROVED ALTERNATES	LAMPING / LIGHT SOURCE	DIMMING TYPE	VOLTAGE	RFPT WATTS	RFPT VA	DESCRIPTION	NOTES
C2	HUNTER NEWSOME LOW PROFILE	TRUCK AREA WORKING BEZEL	24.000 LUMENS 3000K 150.000 LUMENS 15.000 IERS	NON-DIMM	120	20	33	INTERIOR 52" CEILING FAN WITH INTEGRAL LIGHT KIT.	
R1	ETHORN LIGHTING MODEL 10	BAYON COOPER CO. GE HUBBELL LSI INDUSTRIES, PHILIPS	LED 800CR 3000K 110.000 LUMENS 20.000 IERS	NON-DIMM	120	20	22	LOW PROFILE ROUND LED DECOR FLUSH MOUNTED FIXTURE, BRONZE.	
R1	ETHORN LIGHTING WPFLL LED 2000000K INSCREEN	BAYON COOPER CO. GE HUBBELL LSI INDUSTRIES, PHILIPS	LED 800CR 3000K 80.000 LUMENS 20.000 IERS	NON-DIMM	120	10	11	RECESSED LED DOWNLIGHT.	
W1	ETHORN LIGHTING WPFLL LED 2000000K	BAYON COOPER CO. GE HUBBELL LSI INDUSTRIES, PHILIPS	LED 79 OH 2700K 20.000 LUMENS 20.000 IERS	NON-DIMM	120	11.2	12.4	LED WALL SOURCE BACKPLATE WITH DECORATIVE WALL SOURCE OF FUSER.	
W2	ETHORN LIGHTING TFSGLS LED 27K 90 OHREN	BAYON COOPER CO. GE HUBBELL LSI INDUSTRIES, PHILIPS	LED 90 OH 2700K 120.000 LUMENS 40.000 IERS	NON-DIMM	120	24	27	WALL MOUNTED FARMHOUSE STYLE TRACK LIGHTING KIT.	
W3	ETHORN LIGHTING MODEL 945	BAYON COOPER CO. GE HUBBELL LSI INDUSTRIES, PHILIPS	LED 80 OH 4000K 575.000 LUMENS 20.000 IERS	NON-DIMM	120	10.4	11.5	WALL MOUNTED LED LIGHT	

- ELECTRICAL PLAN NOTES:**
- E1 CONNECT NEW SWITCH TO EXISTING LIGHT FIXTURE IN THIS AREA.
 - E2 ROUTE SWITCH LED TO EXHAUST FAN EFL. REFER TO SHEET M01 FOR LOCATION.
 - E3 REFER TO SHEET E01 DETAIL 1 FOR CIRCUIT CONTINUATION.
 - E4 CONNECT TO EXISTING CIRCUIT SERVING BASEMENT.
 - E5 REFER TO DETAIL 2 ON THIS SHEET FOR CIRCUIT CONTINUATION.
 - E6 REPLACE EXISTING LIGHT FIXTURE WITH NEW W1 FIXTURE.
 - E7 REPLACE EXISTING LIGHT SWITCH WITH NEW 3 POLE FOR 3-WAY SWITCH.
 - E8 REFER TO DETAIL 1 ON THIS SHEET FOR CIRCUIT CONTINUATION.
 - E10 HATCHED AREA NOT IN SCOPE OF WORK.



① LIGHTING FIRST FLOOR RCP
1/8" = 1'-0"



① LIGHTING BASEMENT RCP
1/8" = 1'-0"



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2018000030
C/10/18/2018

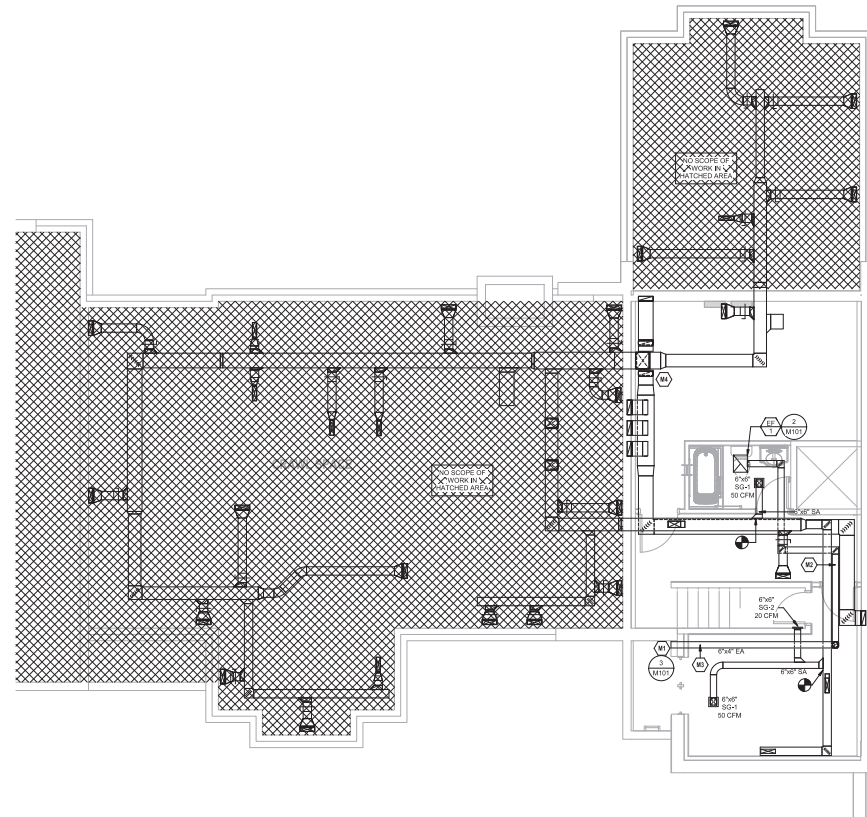
DATE DESCRIPTION
UNIVERSITY HOUSE
PITTSBURGH STATE UNIVERSITY
PITTSBURGH ARIZONA
Building Number: 285004-0220



CONSTRUCTION DOCUMENTS
LIGHTING BASEMENT RCP

DATE:	01-25-2022
DESIGNER:	PHD
AUTHOR:	CHICK
CHECKER:	ACTHARS
DATE PLOTTED:	01/25/2022 10:58:58 AM

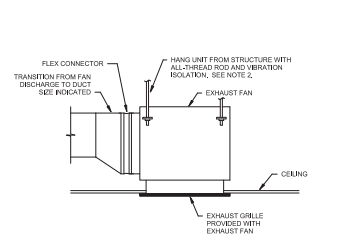
E101



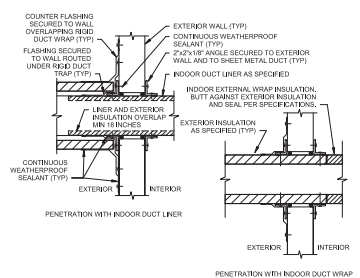
1 HVAC BASEMENT PLAN
1/4" = 1'-0"

MECHANICAL PLAN NOTES:

- M1 ROUTE EXHAUST DUCT THROUGH WINDOW WELL. ENSURE 3" CLEARANCE IS MET FROM OPERABLE WINDOW. TERMINATE WITH WEATHERPOOD, PROBER BACKDRAFT DAMPER AND INSECT SCREEN AT EXTERIOR WALL. INSULATE THE LAST FOOT OF DUCTING FROM EXTERIOR.
- M2 ROUTE EXHAUST DUCT BETWEEN EXISTING DUCTS AND WITHIN JIBST SPACE AS NEEDED TO ROUTE DUCT AS SHOWN.
- M3 ROUTE EXHAUST DUCT WITHIN JIBST SPACE.
- M4 EXISTING DUCT SYSTEM TO REMAIN.



2 CEILING MOUNTED FAN DETAIL
NTS



3 DUCT EXTERIOR WALL PENETRATION
NTS

FAN SCHEDULE													
MARK	SERVICE DESCRIPTION	MANUFACTURER	MOUNTING	MODEL	CFM	ESP (IN)	NOM HP (IN)	FAN RPM	DRIVE (BELT/DIRECT)	ELECTRICAL VWP#	DISC TYPE	WEIGHT (LBS)	NOTES
EF1	EXHAUST	SPERBERG	CEILING	SPERBERG	30	0.25	1000	1	DIRECT	1501	NP	20	ALL

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

- NOTES:
- A. DIVISION 26 CONTRACTOR TO PROVIDE LOCAL SWITCH FOR ON/OFF CONTROL.
 - B. PROVIDE WITH NEOPRENE VIBRATION ISOLATION AND ALL-THREAD HANGING RODS.
 - C. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
 - D. PROVIDE WITH EC MOTOR.
 - E. PROVIDE WITH INTEGRAL GRILLE.

GRILLE, REGISTER AND DIFFUSER SCHEDULE									
MARK	MANUFACTURER	SERIES	MODEL	MOUNTING LOCATION	FACE TYPE	FACE SIZE (IN)	MAX NO. UNITS	DRUP ON	NOTES
SG1	PRICE	SUPPLY	DVS	CEILING	LOUVERED	REFER TO PLANS	20	0.08	ALL
SG2	PRICE	SUPPLY	640	WALL	LOUVERED	REFER TO PLANS	20	0.08	ALL

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

- NOTES:
- A. AIR TERMINALS TO BE CONSTRUCTED OF ALUMINUM.
 - B. NECK SIZE SHOWN ON DRAWINGS. PROVIDE BRANCH DUCT TO MATCH NECK SIZE UNLESS OTHERWISE SHOWN ON DRAWINGS.
 - C. BAKED ENAMEL FINISH, WHITE TO MATCH CEILING/WALL COLOR.
 - D. FRONT BLADES PARALLEL TO SHORT DIMENSION.
 - E. FRAME TYPE TO MATCH CEILING/WALL CONSTRUCTION. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING/WALL PLAN.
 - F. PROVIDE SPRING-BLANK DAMPERS ADJUSTABLE FROM FACE OF DEVICE.

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01/28/2022

DATE DESCRIPTION
UNIVERSITY HOUSE

PITTSBURG STATE UNIVERSITY
 PETERSBURG, KANSAS
 Building Number: 385004-0220

CONSTRUCTION DOCUMENTS

1/28/2022

HVAC BASEMENT PLAN

DATE: 01-28-2022
 DRAWN: JP
 CHECK: JCKY
 DESIGNED: JCKY
 PROJECT: M101

M101

GENERAL DEMOLITION NOTES:

- PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY NOTED IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VIEWS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- OWNER RETAINS RIGHTS OF SALVAGE FOR EQUIPMENT AND FIXTURES TO BE REMOVED. COORDINATE WITH THE OWNER THE EQUIPMENT AND FIXTURES TO BE SALVAGED AND THE LOCATION FOR STORAGE. ADVISE ARCHITECT OF EQUIPMENT FIXTURES AND DEVICES DURING DEMOLITION WORK AND DURING TRANSPORT TO OWNER'S DESIGNATED STORAGE LOCATION.
- REMOVE ITEMS SHOWN HEAVY LINED AND/OR CROSS-HATCHED AND/OR NOTED TO BE REMOVED.
- AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN FOR NEW INSTALLATION. REPAIR ANY DAMAGE CAUSED DURING WORK AT NO EXTRA COST TO THE OWNER.
- REMOVE PIPE HANGERS, PIPE SUPPORTS AND EQUIPMENT SUPPORTS WHERE PIPING OR EQUIPMENT IS REMOVED AND THE EXISTING HANGERS AND SUPPORTS ARE NOT USED FOR THE NEW INSTALLATION.
- VERIFY THAT EXISTING EQUIPMENT TO REMAIN IS OPERATING PROPERLY. NOTIFY THE ARCHITECT, ENGINEER AND/OR OWNER OF ANY DAMAGED AND/OR MALFUNCTIONING COMPONENTS.
- WHERE SHUTDOWN OF EXISTING ACTIVE PIPING SYSTEMS IS REQUIRED DURING DEMOLITION, ADVISE ARCHITECT OF PREPARATION FOR NEW IN-PLACE OF WORK. COORDINATE WITH THE OWNER AND MAINTENANCE DIVISION. VERIFY EXISTING SYSTEMS, EQUIPMENT AND COMPONENTS WILL BE PROVIDED WITH BACKUP SERVICE WHERE REQUIRED. MAINTAIN A MINIMUM OF SEVEN (7) DAYS PRIOR TO INTERRUPTION OF SERVICE.

GENERAL NOTES:

- PROVIDE A CONSTRUCTION RECORD SET OF AS-BUILT DOCUMENTS TO THE ARCHITECT REFLECTING ANY VARIANCES OF INSTALLATION DRAWINGS OR EQUIPMENT CONTRARY TO THE CONSTRUCTION DOCUMENTS. REFER TO SPECIFICATIONS.
- DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. PRIOR TO SUBMITTING BIDS, VISIT THE JOB SITE TO VERIFY THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- PROVIDE TO THE ARCHITECT A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS. REFER TO SPECIFICATIONS.
- INSTALLATION SHALL COMPLY WITH LEGALLY CONSTITUTED CODES AND THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND ALSO MEET ALL REQUIREMENTS OF THE LANDLORD. OBTAIN A COPY OF THE LANDLORD'S REQUIREMENTS AND REVIEW PRIOR TO SUBMITTING BID.
- PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
- DO NOT SCALE FLOOR PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE ROUTING.
- INSTALL CONCEALED PIPING TIGHT TO THE STRUCTURE AND AS HIGH AS POSSIBLE.
- VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
- INSTALL EXPOSED PIPING, WHERE NECESSARY, IN FINISHED AREAS TIGHT TO THE STRUCTURE, WALL OR CEILING AND AS HIGH AS POSSIBLE. INSTALL PIPING PARALLEL AND/OR PERPENDICULAR TO WALLS.
- INSTALL VALVES AND APPURTENANCES A MAXIMUM OF 24" ABOVE CEILING ACCESSIBLE LOCATION WITHIN 24" OF ACCESS COOKS OR ACCESSIBLE CEILING TILES. PROVIDE PIPE AND FITTINGS TO INSTALL VALVES AND APPURTENANCES AT REQUIRED HEIGHT AND WITHIN 24" OF ACCESS DOORS OR ACCESSIBLE CEILING TILES.
- INSTALL NO PLASTIC PIPE OF ANY KIND ABOVE SLAB/INSIDE OR UNDER THE SLAB/INSIDE. INSTALL NO PLASTIC PIPE IN THE CEILING RETURN AIR PLenums.
- COORDINATE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMNS, PILES, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTING, ETC. WHERE REQUIRED AND AS NOTED ON PLANS. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR BEFORE CONCRETE IS INSTALLED.
- CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO TURNING BUILDING OVER TO THE OWNER.
- COORDINATE PIPE ROUTING AROUND ELECTRICAL PANELS. DO NOT INSTALL PIPING OVER ELECTRICAL PANELS.
- PROVIDE TRANSITION ADAPTER COUPLINGS FOR CONNECTION OF PVC DWV TO CAST IRON AT SLAB GRADE. SEE DIVISION 22 SPECIFICATION FOR MORE INFORMATION.
- PROVIDE TRANSITION ADAPTER COUPLINGS FOR CONNECTION OF PVC DWV TO CAST IRON SANITARY WASTE AND VENT PIPE AT SLAB ON GRADE. SEE DIVISION 22 SPECIFICATION SECTION SANITARY DRAINAGE AND VENT PIPING AND SPECIAL TIES FOR MORE INFORMATION.
- WATER HAMMER ARRESTORS SHALL BE SIZE "A" UNLESS NOTED OTHERWISE.

PLUMBING SYMBOLS

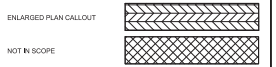
THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED.

STANDARD MOUNTING HEIGHTS		PIPING SYMBOLS		PIPING LINETYPES	
CLINIC SERVICE SINKS (RIM)	30"	OVERSEEN OUTLET	—C1—	DOMESTIC COLD WATER (CW)	
HOSE BIBB (CENTERLINE)	36"	NITROUS OXIDE OUTLET	—SCW—	SOFTENED COLD WATER (SCW)	
ICE MAKER OUTLET BOX (CENTER OF BOX)	24"	MEDICAL AIR OUTLET	—HW—	DOMESTIC HOT WATER (HW)	
JANITORS SINK FAUCET FITTINGS (CENTERLINE)	42"	NITROGEN OUTLET	—WTR—	DOMESTIC HOT WATER RECYCLED (HW-R)	
LAVATORY OR SINK	34"	MEDICAL VACUUM INLET	—140—	DOMESTIC HOT WATER (140°)	
STANDARD HEIGHT (RIM)	31"	FLOOR SINK (FS), SIZE & TYPE	—T—	TRAP PRIMER LINE (T)	
ADA ACCESSIBLE (RIM)	34"	FLOOR DRAIN (FD), SIZE & TYPE	—S—	SOIL PIPING - ABOVE FLOOR (S)	
CHILD HEIGHT (RIM)	24"	ROOF DRAIN (RD), SIZE & TYPE	—S—	SOIL PIPING - BELOW FLOOR (S)	
NON-FREEZING WALL HYDRANT (APO TO CENTERLINE)	18"	BALL VALVE	—W—	WASTE PIPING - ABOVE FLOOR (W)	
SHOWER HEAD	78"	CONTROL VALVE	—W—	WASTE PIPING - BELOW FLOOR (W)	
MEN (CENTERLINE)	72"	SHUT-OFF VALVE	—GW—	GREASE WASTE - ABOVE FLOOR (GW)	
WOMEN (CENTERLINE)	72"	CHECK VALVE	—GW—	GREASE WASTE - BELOW FLOOR (GW)	
SHOWER VALVE	48"	BALANCING VALVE WITH PRESSURE PORTS	—CWV—	COMBINATION GREASE WASTE AND VENT (CWV)	
STANDARD HEIGHT - MEN (CENTERLINE)	48"	WATER METER	—ST—	STORM DRAIN - ABOVE FLOOR (ST)	
STANDARD HEIGHT - WOMEN (CENTERLINE)	48"	STRAINER	—ST—	STORM DRAIN - BELOW FLOOR (ST)	
ADA ACCESSIBLE (CENTERLINE)	34 TO 48"	STRAINER WITH BLOWOFF	—OST—	OVERFLOW STORM DRAIN (OST)	
SURGEON'S SCRUB-UP SINK (FRONT RIM)	55"	RELIEF SAFETY VALVE	—VBO—	VENT BELOW GRADE (VBO)	
TUB VALVE	52"	SOLENOID VALVE	—VBP—	VENT ABOVE FLOOR (VBP)	
STANDARD HEIGHT (CENTERLINE)	52"	PRESSURE REDUCING VALVE	—ED—	EJECTOR DRAIN (ED)	
ADA ACCESSIBLE	17"	GAS PRESSURE REGULATOR	—CDH—	CONDENSATE DRAIN - HIGH EFFICIENCY RTU (CDH)	
CHILD HEIGHT (RIM)	17"	THERMOSTATIC MIXING VALVE	—CD—	CONDENSATE DRAIN (CD)	
CHILD HEIGHT (RIM)	14"	PIPE ANCHOR	—ACD—	AUXILIARY CONDENSATE DRAIN (ACD)	
WASHING MACHINE OUTLET BOX (RIM)	42"	EXPANSION JOINT	—SPD—	SUMP OR SEWAGE PUMP DISCHARGE (SPD)	
WATER CLOSET	15"	BACKFLOW PREVENTER	—G—	NATURAL GAS (G)	
STANDARD HEIGHT (RIM)	15"	PRESSURE GAUGE	—G—	NATURAL GAS ON ROOF (G)	
ADA ACCESSIBLE (TOP OF SEAT)	17 TO 19"	THERMOMETER	—MFG—	MEDIUM PRESSURE NATURAL GAS (MFG)	
CHILD HEIGHT (RIM)	10"	FLANGE CONNECTION	—MPG—	MEDIUM PRESSURE NATURAL GAS ON ROOF (MPG)	
WATER COOLER OR DRINKING FOUNTAIN	41"	HOSE BIBB (HB)	—NPA—	NON-POTABLE WATER (NPA)	
STANDARD HEIGHT (SPOUT)	36"	NON-FREEZING WALL HYDRANT (NW)	—LPC—	LIQUEFIED PETROLEUM GAS (LPG)	
ADA ACCESSIBLE (SPOUT)	30"	MANUAL AUTOMATIC AIR VENT OR VACUUM RELIEF VALVE	—WS—	WATER SERVICE (WS)	
INSTALL PLUMBING FIXTURES AT THE MOUNTING HEIGHTS SHOWN ABOVE UNLESS THE ARCHITECTURAL DRAWINGS OR ELSEWHERE IN THE CONSTRUCTION DOCUMENTS FINAL APPROVAL OF LOCATIONS BY ARCHITECT. MOUNTING HEIGHTS LISTED ABOVE, OR ELSEWHERE IN THE CONSTRUCTION DOCUMENTS, ARE PERMITTED. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.					
ANNOTATION					
	PLUMBING PLAN NOTE CALLOUT		PRESSURE/VACUUM SWITCH		CLEANOUT
	PLUMBING EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED. REFER TO PLUMBING FEATURE OR EQUIPMENT SCHEDULES)		CAP		FLOOR CLEANOUT (FCO)
	EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)		WALL CLEANOUT (WCO)		EXTERIOR CLEANOUT (ECO)
	MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)		ELBOW UP		ELBOW DOWN
	CONNECTION POINT OF NEW WORK TO EXISTING		TEE UP		TEE DOWN
	DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER		ELBOW UP WITH SHUT-OFF VALVE (SOV)		ELBOW DOWN WITH SHUT-OFF VALVE (SOV)
	SECTION CUT DESIGNATION		TEE UP WITH SHUT-OFF VALVE (SOV)		TEE DOWN WITH SHUT-OFF VALVE (SOV)
	DEDICATED EQUIPMENT ACCESS TIE		WATER HAMMER ARRESTER (WHA) WITH POISESS, (A, B, C, D, E)		RECIRCULATION PUMP
	ACCESS PANEL		INTRAP		GAS COCK
			TRAP PRIMER		TRAP PRIMER WITH DISTRIBUTION UNIT
ABBREVIATIONS					
ADA	AMERICANS WITH DISABILITIES ACT	MIN	MINIMUM	NC	NORMALLY CLOSED
AFB	ABOVE FINISHED FLOOR	NO	NORMALLY OPEN	NC	NORMALLY CLOSED
AFG	ABOVE FINISHED GRADE	ND	NOT IN CONTRACT	ND	NOT IN CONTRACT
AHU	AIR HANDLING UNIT	OD	OVERFLOW ROOF DRAIN	OD	OVERFLOW ROOF DRAIN
AP	ACCESS PANEL	POI	PLUMBING DRAINAGE INSTITUTE	POI	PLUMBING DRAINAGE INSTITUTE
BAS	BUILDING AUTOMATION SYSTEM	PHB	PHASE	PHB	PHASE
BFF	BELOW FINISHED FLOOR	PRV	PRESSURE REDUCING VALVE	PRV	PRESSURE REDUCING VALVE
BFG	BELOW FINISHED GRADE	PVC	POLYVINYL CHLORIDE	PVC	POLYVINYL CHLORIDE
BOP	BOTTOM OF PIPE	RPC	REINFORCED CONCRETE	RPC	REINFORCED CONCRETE
BOS	BOTTOM OF STRUCTURE	RFD	ROOF DRAIN	RFD	ROOF DRAIN
BTU	BRITISH THERMAL UNIT	RFM	REVOLUTIONS PER MINUTE	RFM	REVOLUTIONS PER MINUTE
CP	CONDENSATE PUMP	RTU	ROOFTOP UNIT	RTU	ROOFTOP UNIT
CPVC	CHLORINATED POLYVINYL CHLORIDE	RU	RUCKLE BURST	RU	RUCKLE BURST
CU	COPPER	SF	SQUARE FEET	SF	SQUARE FEET
DI	DUCKLE BURST	SS	STAINLESS STEEL	SS	STAINLESS STEEL
DN	DOWN	TDF	TOTAL DYNAMIC HEAD	TDF	TOTAL DYNAMIC HEAD
DSU	DRAINAGE FEATURE UNIT	TFA	TO FLOOR ABOVE	TFA	TO FLOOR ABOVE
DSU	DOWNSTAIR	TYP	TYPICAL	TYP	TYPICAL
EHS	ENERGY MANAGEMENT SYSTEM	UL	UNDERWRITERS LABORATORIES, INC.	UL	UNDERWRITERS LABORATORIES, INC.
ETS	SYSTEM	UNO	UNLESS NOTED OTHERWISE	UNO	UNLESS NOTED OTHERWISE
EWC	ELECTRIC WATER COOLER	UPS	UNUSABLE/FITTABLE	UPS	UNUSABLE/FITTABLE
FF	FROM FLOOR ABOVE	VCP	VARIABLE FREQUENCY DRIVE	VCP	VARIABLE FREQUENCY DRIVE
FFB	FROM FLOOR BELOW	VFD	VARIABLE FREQUENCY DRIVE	VFD	VARIABLE FREQUENCY DRIVE
FF	FINISHED FLOOR	VS	VENT STACK	VS	VENT STACK
FL	FLOOR LINE	WTR	WATER	WTR	WATER
FLA	FULL LOAD AMPS	WV	WATER VENT	WV	WATER VENT
FLD	FLOOR DRAIN	WV	WATER VENT	WV	WATER VENT
GRM	GALLONS PER MINUTE	WV	WATER VENT	WV	WATER VENT
HD	HEAD, HUB DRAIN	WV	WATER VENT	WV	WATER VENT
HZ	HERTZ	WV	WATER VENT	WV	WATER VENT
HW	HIGH WATER COLUMN	WV	WATER VENT	WV	WATER VENT
RWC	RICHES OF WATER COLUMN	WV	WATER VENT	WV	WATER VENT
JB	JUNCTION BOX	WV	WATER VENT	WV	WATER VENT
JB	JUNCTION BOX	WV	WATER VENT	WV	WATER VENT
KB	KITCHEN BOX	WV	WATER VENT	WV	WATER VENT
KW	KITCHEN WASTE	WV	WATER VENT	WV	WATER VENT
MA	MANHOLE	WV	WATER VENT	WV	WATER VENT
MAX	MAXIMUM	WV	WATER VENT	WV	WATER VENT
MBH	1000 BTU PER HOUR	WV	WATER VENT	WV	WATER VENT
MH	MANHOLE	WV	WATER VENT	WV	WATER VENT

LINETYPE LEGEND

THROUGHOUT THE DRAWINGS DIFFERENT LINETYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASING DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAME OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.

CALL OUTS



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 ARCHITECTS
 1000 N. GARDNER STREET, SUITE 100
 DENVER, CO 80202
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01-28-2022

DATE DESCRIPTION
UNIVERSITY HOUSE

PITTSBURG STATE UNIVERSITY
 PITTSBURG, KANSAS
 Building Number: 385004-0220

CONSTRUCTION DOCUMENTS

PLUMBING GENERAL NOTES AND LEGEND

DATE: 01-28-2022
 DRAWN BY: VAP
 CHECKED BY: MCH
 DESIGNED BY: MCH
 PROJECT NO: P000

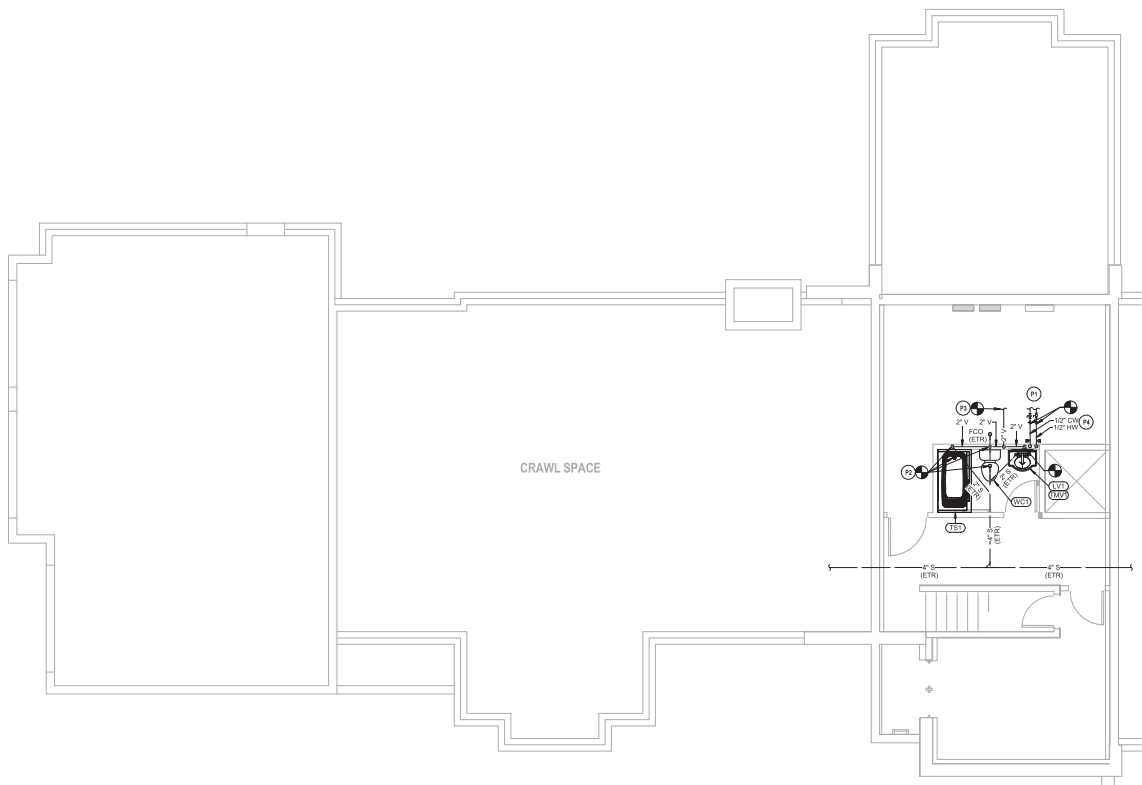
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1 PLUMBING BASEMENT PLAN
1/4" = 1'-0"

PLUMBING FIXTURE CONNECTION SCHEDULE				
FIXTURE	COLD WATER	HOT WATER	WASTE	VENT
WATER CLOSET/TANK	1 1/2"	1 1/2"	2"	2"
LAVATORY/HAND SINK	1/2"	1/2"	1/2"	1/2"
SHOWER	1/2"	1/2"	1/2"	1/2"

NOTES:
PIPE SIZES SHOWN ARE MINIMUM AND ARE FOR INDIVIDUAL SERVICE PIPE SIZES

PLUMBING PIPE MATERIAL SCHEDULE		
PIPE SYSTEM	ABBREVIATION	PIPE MATERIAL
COLD WATER (GRADE & VENT ABOVE GRADE)	CW OR CV	BLACK LOST BRON
SEWAGE (GRADE & VENT BELOW GRADE)	SW OR SV	SEWAGE PLASTIC CABY BOND (PVC DWV OPTIONAL)
POTABLE WATER (ABOVE GRADE)	CW, HW OR HWV	TYPE L HARD DRAWN COPPER

REFER TO SPECIFICATIONS FOR FITTINGS, INSTALLATION REQUIREMENTS AND FURTHER INFORMATION

- PLUMBING PLAN NOTES:**
- DO NOT INSTALL PLUMBING PIPING OVER ELECTRICAL PANELS OR EQUIPMENT.
 - CONNECT NEW PLUMBING FIXTURE TO EXISTING PLUMBING WASTE AND VENT STUBS, FIELD VERIFY EXACT LOCATIONS AND SIZE PRIOR TO SUBMITTING BID.
 - CONNECT NEW VENT PIPING INTO THE EXISTING VENT STUB, FIELD VERIFY EXACT LOCATION AND SIZE PRIOR TO SUBMITTING BID.
 - CONNECT NEW DOMESTIC HOT AND COLD WATER PIPING TO EXISTING 1/2" WATER STUB OUTS, FIELD VERIFY EXACT LOCATION AND SIZE OF STUB OUTS PRIOR TO SUBMITTING BID. ROUTE IN NEW WALL TO SERVE NEW PLUMBING FIXTURES. REFER TO PLUMBING FIXTURE CONNECTION SCHEDULE FOR ADDITIONAL INFORMATION.

PLUMBING FIXTURE SCHEDULE:
FIXTURES IN THIS SCHEDULE OR THEIR APPROVED EQUIVALENT ARE PROVIDED BY THE PLUMBING CONTRACTOR. SUBMIT SHOP DRAWINGS ON EACH OF THESE ITEMS. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION AND INSTALLATION REQUIREMENTS. VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE PLUMBING FIXTURE MOUNTING HEIGHTS.

LAVATORIES
L111 CASWORK AND BOWL PROVIDED BY OTHERS. FAUCET DELTA 355-1PT DRYDEN 4" SPOUT AND 1.5 GPM SOFTFLOW AERATOR WITH POP-UP DRAIN. COLOR: MEXLE. 1-1/4" X 1-1/2" PVC PL TRAP CHROME PLATED REEBERS WITH OVAL HANDLE ANGLE STOPS.

SHOWERS
L111 TUB / SHOWER COMBINATION: KOHLER K-112-A LEFT-RIGHT DRAIN DESIGNATION, WHITE ONE-PIECE ACTYLIC BATH, 72" X 36" X 16-1/2" AND KOHLER BRONZE CHROME CLEARGLD SLOTTED OVERFLOW BATHDRAN, DELTA 11445-1PT DRYDEN SHOWER/TUB UNIT. PRESSURE-BALANCING MIXING VALVE WITH CELSIO 16000-4P MULTICHoice UNIVERSAL TUB AND SHOWER VALVEBODY ROUGH-IN, LEVER HANDLE, INTERNAL VOLUME CONTROLS, TUB SPOUT, SHOWER HEAD (2.2 GPM) WITH ARM AND FLANGE, HANDHELD SHOWER, LEVER DIALER WITH VOLUME CONTROL. VERIFY DRAIN SIDE PRIOR TO ORDERING.

WATER CLOSERS
WC11 FLOOR-MOUNTED WATER CLOSET, AMERICAN STANDARD # 3104, FLOOR-MOUNTED WATER CLOSET, AMERICAN STANDARD # 3104A, CABINET, FROST-TANK TYPE WHITE VITREOUS CHINA FIXTURE WITH ELONGATED BOWL, 1.6 GALLON PER FLUSH, AND BIFUNCTION FLUSH ACTION WITH 4 OVERBUILT LARVAE W/ 1/4" GAP SCREWS OF 100% AND GLOBE-COUPLED TANK WITH LEFT HAND METAL TRIP LEVER, FIBER GLASS 4" PRESSURE TIGHT WHITE OPEN-FRONT CONTAINER, SOLID PLASTIC, HEAVY DUTY SEAT-LESS COVER WITH SELF-SUSTAINING CHECK-RINGS AND STAINLESS STEEL BOLTS, INSURE # 8 SP/30SC LEAD FREE BRASS ANGLE STOP VALVE WITH RISER AND CHROME-PLATED BRASS COUPLER.

WATER HAMMER ARRESTER
WHA1 WATER HAMMER ARRESTER, PRECISION PLUMBING PRODUCTS, HARD DRAWN COPPER BODY WITH WROUGHT COPPER FITTINGS, PISTON TYPE WITH LUBRICATED EPDM O-RING SEALS, NEEBING ASSE, 10% OF CPM WEIGHT. PROVIDE FITTINGS AS THROUGH 1" AS SHOWN ON PLANS, PROVIDE SIZE 1" UNLESS SHOWN OTHERWISE ON THE PLANS. SEE "AA" WATERHAMMER ARRESTERS ARE NOT ALLOWED.

PCAV ARCHITECTS
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PITTSBURG STATE UNIVERSITY
PITTSBURG, KANSAS
Building Number: 385004-0220

CONSTRUCTION DOCUMENTS

PLUMBING BASEMENT PLAN

DATE: 01-28-2022
PROJECT: UNIVERSITY HOUSE
AUTHOR: MEB
CHECKED: DCF
DATE PLOTTED: 01/24/2022
PLOT BY: JCH

P101

ANDY
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D
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B
A
CARL J. HENDERSON

