

Architect's Supplemental Instructions

Architect's Project No:
04561.01

Architect's ASI No: 059

Project:
Webster University
Interdisciplinary Science
Building

Date Issued: 04/12/17

Contract Date:

Reason Code: 06 Owner's Scope

Discipline Code: 03 Electrical
10 TCom

Owner:
Webster University

Architect:
Cannon Design
1100 Clark Avenue
St. Louis, MO 63102

Contractor:
Paric Construction

Contract For: General Construction

The Work shall be carried out in accordance with the following supplemental instructions issued in accordance with the Contract Documents without change in Contract Sum or Contract Time. Indicate your acceptance of these instructions for minor change to the Work as consistent with the Contract Documents and return a copy to the Architect within fourteen (14) business days of the date of issuance of these instructions. If you feel a change in Contract Sum or Contract Time is warranted, please submit an itemized quotation for the changes for approval within fourteen (14) business days of the date of issuance of these instructions prior to proceeding on the Work. Proceeding with the Work in accordance with these instructions indicates your acknowledgement that there will be no change.

Attachments:

Drawings:

M0101.B, M0601, M0603, E0101.B, E0504, & T0101.B

Architect's Supplemental Instructions

Page 2

Description:

Please submit an itemized proposal for changes in contract Sum and Contract Time for proposed modifications to the Contract Documents described herein:

ASI-059 is being issued for the Video Wall Changes.

SHEET M0101.B – LEVEL 01 AREA B – FLOOR PLAN – MECHANICAL

- Revise air flows and ductwork for Lecture Hall 160 and AV Equipment Room 160D.

SHEET M0601 – SCHEDULES - MECHANICAL

- Revise fan schedule for VF-3 - Air flow and static pressure values.

SHEET M0603 – SCHEDULES –MECHANICAL

- Revise maximum air flow for VAV-123.

SHEET E0101.B – LEVEL 01 AREA B FLOOR PLAN – ELECTRICAL & AUXILIARY

- Add (2) dedicated 20A branch circuits and associated twist-lock receptacles at new rack location in AV Equipment Room 160D. See keyed note E84.
- Update plan location of (6) video wall quad receptacles.

SHEET E0504 – PANEL SCHEDULES

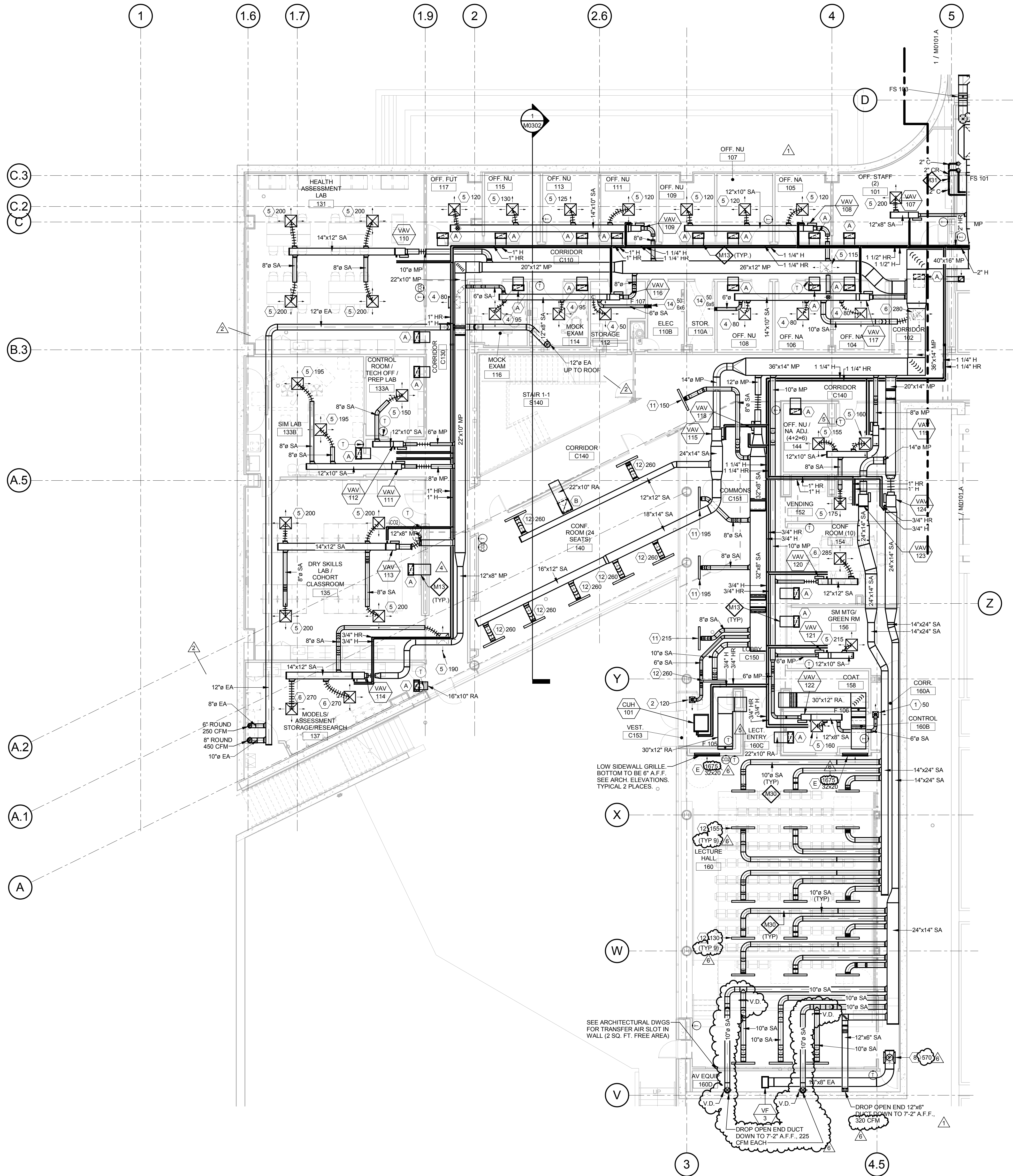
- (2) new dedicated 20A branch circuits from spare breakers 1NL3-3,5.

SHEET T0101.B – LEVEL 01 FLOOR PLAN – AREA B

- Move AV equipment rack data outlets/cabling from the Control Room to the AV Equipment Room. Revise 2 AV wall box sizes.

Issued by Architect: Mike Nolte & Dan Veile, William Tao & Associates, Inc.
Tom Becker, Faith Group

Accepted by Contractor:



GENERAL NOTES:

- Because of the limited space available to install all of the mechanical work, coordination between the various trades is of the utmost importance. This contractor shall coordinate with all other trades prior to the fabrication and installation of any work.
- Refer to the reflected ceiling plans for ceiling construction, ceiling grid layout, ceiling mounted devices, and coordinate exact location and mounting type of all air devices.
- All ductwork upstream of terminal units shall be Medium Pressure (MP). All ductwork downstream of terminal units shall be Low Pressure (LP). Refer to specifications.
- All ductwork dimensions indicated on plans are sheet metal sizes. All medium pressure ductwork shall be unlined, externally insulated. All low pressure ductwork shall be lined. See specifications.
- All mitered 90° rectangular elbows shall be furnished with turning vanes having maximum c = 0.12. All smooth radius rectangular elbows shall have a throat radius greater than one half the duct width, unless furnished with splitter vanes. Under no circumstances shall the throat radius be less than one third the duct width. Unless otherwise noted or specified.
- Contractor shall furnish and install volume dampers for each duct take-off unless otherwise noted. See detail.
- Maximum length of Low Pressure (LP) flexible ductwork shall be 8'-0". Round LP duct of lengths greater than 8'-0" shall be rigid round. Flexible duct sizes on plans shall be neck size of diffusers or as indicated. See specifications.
- Maximum length of Medium Pressure (MP) flexible ductwork shall be 2'-0". Round MP duct of lengths greater than 2'-0" shall be rigid round. Flexible duct sizes on plans shall be air Terminal Unit inlet size or as indicated. See specifications.
- All ductwork runouts to Air Terminal Units and diffusers shall be the connection size unless otherwise noted.
- Piping runouts to terminal units shall be 3/4" unless otherwise noted. Refer to reheat box schedule.
- Verify exact location of thermostats, humidistats, BAS sensors, and other exposed control sensors with architectural elevations and drawings before installation.
- Schedule systems or equipment shut downs required for new construction with owner two weeks in advance. Some premium time

AIR HANDLING UNIT (AHU) SCHEDULE

SUPPLY FAN											HEAT RECOVERY COILS						COOLING COIL						HEATING COIL						FILTERS															
TAG ID	TAG NO	MANUFACTURER & MODEL NO.	MIN OUTSIDE AIR (CFM)	AIRFLOW	WHEEL		TSP "W.C." in-wg	ESP "W.C." in-wg	BHP	DRIVE	MIN FAN EFF. (%)	MAX AIR P.D. (IN. W.C.)	SUMMER PERFORMANCE (°F)		WINTER PERFORMANCE (°F)		MAX FACE VELOCITY (FPM)	MAX AIR PD (IN. W.C.)	AIR TEMP. (°F)		CIRCULATING FLUID		TOTAL MBH	SENSIBLE MBH	ROWS	MAX FACE VELOCITY (FPM)	MAX AIR PD (IN. W.C.)	AIR TEMP. (°F)		CIRCULATING FLUID		MBH	MERV	TYPE	SPD (W.G.) @ 500FPM									
					TYPE	DIA.							EAT (°F) DB/WB	LAT (°F) DB/WB	EXH LAT (°F) DB/WB	EAT (°F) DB/WB			LAT (°F) DB/WB	EXH LAT (°F) DB/WB	GPM	EWT (°F)						LWT (°F)	MAX WATER PD (FT)	EAT (°F)	LAT (°F)				GPM	EWT (°F)	LWT (°F)	MAX WATER PD (FT)	INITIAL	FINAL	DESIGN	NOTES		
AHU	1	TRANE CSAA SIZE 66	16000 CFM	32000 CFM	PLENUM	(4) 20"	6.85 in-wg	4.00 in-wg	57.25	DIRECT	60	0.75 in-wg	95/78	85.6/75.6	86/66.7	4/0	37.7/24.3	38.7/30.3	500 FPM	1.00 in-wg	80/70	53.5/53	210 GPM	42 °F	58 °F	10	1,655.2	949.8	8	750 FPM	0.25 in-wg	36 °F	75 °F	68 GPM	140 °F	100 °F	2	1,346.5	14	4" CARTRIDGE	0.50 in-wg	1.50 in-wg	1.25 in-wg	1 to 12
AHU	2	TRANE CSAA SIZE 06	16000 CFM	32000 CFM	PLENUM	(4) 20"	6.85 in-wg	4.00 in-wg	57.25	DIRECT	60	0.75 in-wg	95/78	85.6/75.6	86/66.7	4/0	37.7/24.3	38.7/30.3	500 FPM	1.00 in-wg	80/70	53.5/53	210 GPM	42 °F	58 °F	10	1,655.2	949.8	8	750 FPM	0.25 in-wg	36 °F	75 °F	68 GPM	140 °F	100 °F	2	1,346.5	14	4" CARTRIDGE	0.50 in-wg	1.50 in-wg	1.25 in-wg	1 to 12
AHU	3	TRANE CSAA SIZE 06	2800 CFM	2800 CFM	PLENUM	15"	5.44 in-wg	2.00 in-wg	3.46	DIRECT	65	0.75 in-wg	-	-	-	-	-	-	500 FPM	1.00 in-wg	97/76	50.5/50	30 GPM	42 °F	58 °F	10	240.8	142.8	6	750 FPM	0.25 in-wg	0 °F	75 °F	12 GPM	140 °F	100 °F	2	227.7	14	4" CARTRIDGE	0.50 in-wg	1.50 in-wg	1.25 in-wg	1 to 10
AHU	4	TRANE CSAA SIZE 06	2800 CFM	2800 CFM	PLENUM	15"	5.44 in-wg	2.00 in-wg	3.46	DIRECT	65	0.75 in-wg	-	-	-	-	-	-	500 FPM	1.00 in-wg	97/76	50.5/50	30 GPM	42 °F	58 °F	10	240.8	142.8	6	750 FPM	0.00 in-wg	0 °F	75 °F	12 GPM	140 °F	100 °F	2	227.7	14	4" CARTRIDGE	0.50 in-wg	1.50 in-wg	1.25 in-wg	1 to 10
AHU	5	TRANE UCCAG SIZE 10	0 CFM	5000 CFM	PLENUM	-	2.10 in-wg	1.50 in-wg	3.15	DIRECT	50	0.00 in-wg	-	-	-	-	-	-	550 FPM	0.75 in-wg	85/60	60/50	37 GPM	56 °F	63 °F	10	136.56	136.6	6	750 FPM	0.00 in-wg	0 °F	75 °F	12 GPM	140 °F	100 °F	2	227.7	8	2" THROW AWAY	0.25 in-wg	1.50 in-wg	1.25 in-wg	1 to 10

PLAN DESIGNATION:

X

1

TAG ID

TAG NUMBER

NOTES:

1. PROVIDE TRANE PERFORMANCE CLIMATE CHANGER AIR HANDLING UNITS WITH SIZES, CAPACITIES AND CONFIGURATIONS AS SCHEDULED.

2. 2" FOAM INJECTED R-13 INSULATION.

3. AIR LEAKAGE LESS THAN 1% AND L240 DEFLECTION AT +/- 8" W.G. PRESSURE.

4. COOLING COILS WITH STAINLESS STEEL DRAIN PAN COIL HEADERS AND CASING.

5. PROVIDE SERVICE PANELS FOR COIL ACCESS, REMOVAL AND MAINTENANCE.

6. ACCESS DOORS SHALL BE AS SHOWN ON MECHANICAL DRAWINGS.

7. UNIT TO BE COMPLETE THERMAL BREAK CONSTRUCTION INCLUDING ALL ACCESS DOORS.

8. UNIT MOUNTED RUSKIN AMCA CERTIFIED LOW LEAK DAMPERS.

9. VFD'S ARE WALL MOUNTED. PROVIDE FACTORY MOTORS WITH SHAFT GROUNDING RING WIRED TO A JUNCTION BOX WITH TERMINALS FOR CONNECTION TO VFD. AT CONTRACTOR'S OPTION, PROVIDE FACTORY MOUNTED SUPPLY FAN VFD WITH SHAFT GROUNDING RING AND FACTORY INVERTER BALANCE TESTING.

10. SOUND DATA SHALL NOT EXCEED SPECIFIED VALUES AND SHALL BE AHR260 CERTIFIED FOR THE COMPLETELY ASSEMBLED UNIT. AMCA BARE FAN SOUND DATA NOT ACCEPTABLE.

11. UNIT SHALL BE SHIPPED IN SECTIONS TO FIT THROUGH A FLOOR SLAB OPENING 7'-4" WIDE x 16'-0" LONG.

12. PROVIDE MARINE GRADE LIGHT FIXTURES AND LIGHT SWITCHES AT ALL ACCESS SECTIONS AND ONE RECEPTACLE ON EXTERIOR ACCESS SIDE. SEE ELECTRICAL DRAWINGS FOR 120V POWER. HEAT RECOVERY COIL SHALL BE 8-ROW, 54" HIGH BY 130" LONG, 16,000-CFM, 110-GPM.

THE SEALS(S) AND SIGNATURE(S) APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

Webster
UNIVERSITY

Webster University
Interdisciplinary Science
Building

CANNONDESIGN

1100 Clark Avenue
St. Louis, Missouri 63102
T: 314.241.6250
F: 314.241.2570

William Tao & Associates, Inc.
ME/FP Engineer
7955 Manchester Road, Suite 125
St. Louis, MO 63143
314-884-7600

David Mason & Associates, Inc.
Structural & Civil Engineer
800 South Vandeventer Avenue
St. Louis, MO 63110
314.534.1053

Faith Group
Technology
3101 S. Hanley Rd., Suite 100
St. Louis, MO 63143
314.591.2228

Kuhlmann Leavitt, Inc.
Environmental Graphics & Signage
7400 Pershing Ave.
St. Louis, MO 63130
314.725.6616

KWA Architects
Architecture
8721 Litzinger Road
St. Louis, MO 63124
314.962.2560

Spellman Brady & Company
Interior Designer
8251 Maryland Avenue, Suite 300
St. Louis, MO 63105
314.862.0070

SWT Design
Landscape Architect
7722 Big Bend Blvd
St. Louis, MO 63119
314.644.5700

Webb Engineering Services, Inc.
Planning & Fire Protection
1400 S. 3rd Street, Suite 201
St. Louis, MO 63104
314.588.0600

5 ASI-059 12 APR 2017
4 ASI-034 04 NOV 2016
3 ADDENDUM 2-4 24 MAY 2016
2 ADDENDUM 2-2 19 APRIL 2016
1 ADDENDUM 2-1 17 MAR 2016
- ISSUED FOR CONSTRUCTION (BP2) 01 MAR 2016
No. Description Date

Drawing Title:

SCHEDULES -
MECHANICAL

Project No.: 04561.01

Checked by:

M0601

SPLIT SYSTEM FAN COIL AND AIR-COOLED CONDENSING UNIT (FCU) (ACCU) SCHEDULE

TAG ID	TAG NUMBER	MANUFACTURER & MODEL NO.	ARRANGEMENT	SERVICE	AIRFLOW	AMBIENT TEMP (°F)	SEER	NET CAPACITY (MBH)	NOMINAL CAPACITY (TONS)	REFRIGERANT TYPE	RS/RL SIZES (IN.)	NOTES
FCU	1	TRANE 4MYW5624A1/4TYK6524A1	WALL MOUNTED	DATA CLOSET	590	95	16	24	2-TON	R410A	1/2" / 1/4"	1, 2
FCU	2	TRANE 4MYW5624A1/4TYK6524A1	WALL MOUNTED	DATA CLOSET	590	95	16	24	2-TON	R410A	1/2" / 1/4"	1, 2
FCU	3	TRANE 4MYW5624A1/4TYK6524A1	WALL MOUNTED	DATA CLOSET	590	95	16	24	2-TON	R410A	1/2" / 1/4"	1, 2, 3
FCU	4	TRANE 4MYW5624A1/4TYK6524A1	WALL MOUNTED	DATA CLOSET	590	95	16	24	2-TON	R410A	1/2" / 1/4"	1, 2, 3
FCU	5A	TRANE 4MYW5624A1/4TXM6542A1	WALL MOUNTED	MDF/IT WORK ROOM	590	95	16	24	2-TON	R410A	3/8" / 5/8"	1, 2, 4
FCU	5B	TRANE 4MYW5624A1/4TXM6542A1	WALL MOUNTED	MDF/IT WORK ROOM	590	95	16	24	2-TON	R410A	3/8" / 5/8"	1, 2, 4
FCU	5C	TRANE 4MYW5624A1/4TXM6542A1	WALL MOUNTED	MDF/IT WORK ROOM	590	95	16	24	2-TON	R410A	3/8" / 5/8"	1, 2, 4

PLAN DESIGNATION:
X TAG ID
1 TAG NUMBER

NOTES:
1. PROVIDE WALL MOUNTING KIT AND SPACE TEMPERATURE CONTROLS FOR FAN COIL UNIT.
2. PROVIDE REFRIGERANT PIPING AS REQUIRED BY MANUFACTURER. VERIFY SIZE AND EXACT LENGTH OF PIPING.
3. PROVIDE ROOF CURB RAIL SUPPORTS FOR CONDENSING UNITS ON ROOF. PROVIDE LOW AMBIENT CONTROL DOWN TO 0°F.
4. SINGLE CONDENSING UNIT WITH MULTIPLE ZONES COOLING FAN COIL UNITS.

AIR DEVICE SCHEDULE SUPPLY

TAG ID	MANUFACTURE & MODEL	TYPE	NECK SIZE	ACCESSORIES	FINISH	MATERIAL	MAX SP DROP	MAX NC	100 FPM THROW	MAX FLOW	NOTES
1	PRICE SPD	12x12	5" ROUND	PC	BWE	ST	0.1	20	4 FT.	80	
2	PRICE SPD	12x12	6" ROUND	PC	BWE	ST	0.1	20	4 FT.	120	
3	PRICE SPD	12x12	8" ROUND	PC	BWE	ST	0.1	20	5 FT.	270	
4	PRICE SPD	24x24 LAY-IN	6" ROUND	PC	BWE	ST	0.1	20	3 FT.	120	
5	PRICE SPD	24x24 LAY-IN	8" ROUND	PC	BWE	ST	0.1	20	5 FT.	250	
6	PRICE SPD	24x24 LAY-IN	10" ROUND	PC	BWE	ST	0.1	20	6 FT.	430	
7	PRICE SPD	24x24 LAY-IN	12" ROUND	PC	BWE	ST	0.1	20	8 FT.	630	
8	PRICE SPD	24x24 LAY-IN	14" ROUND	PC	BWE	ST	0.1	20	10 FT.	850	
9	PRICE SPD	24x24 LAY-IN	15" ROUND	PC	BWE	ST	0.1	20	11 FT.	980	
10	PRICE SDBI100	48"L (1) 1" SLOTS	6" ROUND	AP	BWE	ST/AL	0.15	22	12 FT.	120	
11	PRICE SDBI100	48"L (2) 1" SLOTS	7" ROUND	AP	BWE	ST/AL	0.11	23	17 FT.	220	
12	PRICE SDBI100	48"L (3) 1" SLOTS	10" ROUND	AP	BWE	ST/AL	0.08	25	18 FT.	260	
13	PRICE SDBI100	48"L (4) 1" SLOTS	10" ROUND	AP	BWE	ST/AL	0.1	25	23 FT.	400	
14	PRICE 520D	3/4" SPACING, DBL. DEFL.	SEE PLAN	VC,PC	BWE	ST	0.1	20	-	-	SIDEWALL
15	PRICE 620D	3/4" SPACING, DBL. DEFL.	SEE PLAN	VC,PC	BWE	AL	0.1	20	-	-	SIDEWALL
16	PRICE LBMH28C	EXTRA HEAVY MANDREL PENCIL PROOF 15 DEG. DEFL.	SEE PLAN	VC	CC	AL	0.05	20	13 FT.	-	FLOOR
17	PRICE FRFDA	FLUSH FACE RADIAL DIFFUSER	10" ROUND	PC,RC	BWE	AL	0.10	25	5	400 CFM	

PLAN DESIGNATION:
X TAG ID
1 TAG NUMBER

ACCESSORIES:
RC - REMOVABLE CORE
VC - VOLUME CONTROL
PC - PATTERN CONTROL
AP - AIR PLENUM (LINED)
EQ - EQUALIZING GRID

FINISH:
BWE - BAKED WHITE ENAMEL
STD - STANDARD
ENL - BAKED ENAMEL COLOR SELECTED BY ARCHITECT
PGE - PRIME GRAY

MATERIAL:
ST - STEEL
AL - ALUMINUM
SS - STAINLESS STEEL
PL - PLASTIC
SP - SPECIAL

NOTES:
1. 2-WAY AIRFLOW PATTERN, UNLESS NOTED OTHERWISE BY FLOW ARROWS.
2. 4-WAY AIRFLOW PATTERN, UNLESS NOTED OTHERWISE BY FLOW ARROWS.
3. PROVIDE LINED SOUND BOOT FOR RETURN AIR DEVICES, SEE DETAIL.
4. LISTED THROW IS FOR 0° DEFLECTION.
5. PROVIDE DIRECTIONAL BLADES FOR 45° DEFLECTION.
6. PROVIDE ALUMINUM DAMPER.
7. PROVIDE HEAVY DUTY FLOOR MOUNTING FRAME.
8. PROVIDE FRAME AND BORDER WITH CONCEALED FASTENING.
9. PROVIDE CONCEALED BORDER.
10. PROVIDE WITH FACE OPERATED VOLUME DAMPER.

AIR DEVICE SCHEDULE RETURN

TAG ID	MANUFACTURER & MODEL	TYPE	NECK SIZE	ACCESSORIES	FINISH	MATERIAL	MAX SP DROP	MAX NC	MAX FLOW	NOTES
A	PRICE B1	EGGGRATE	22x10	-	BWE	AL	0.10	20	1,100	1
B	PRICE B1	EGGGRATE	22x22	-	BWE	AL	0.10	20	2,400	1
C	PRICE 530D	3/4" 45 DEG. BLADES	SEE PLAN	VC	BWE	ST	0.10	20	-	
D	PRICE 630D	3/4" 45 DEG. BLADES	SEE PLAN	VC	BWE	AL	0.10	20	-	
E	PRICE 530D	3/4" 45 DEG. BLADES	SEE PLAN	VC	BWE	ST	0.10	20	-	SIDEWALL
F	PRICE 530D	3/4" 45 DEG. BLADES	SEE PLAN	VC	BWE	AL	0.10	20	-	SIDEWALL
H1	GREENHECK FGR	ROOF EXHAUST HOOD	24x24	BD,RFC	STD	AL	0.15	-	1200	ROOF HOOD
H2	GREENHECK FGR	RAIN EXHAUST HOOD	30x30	RFC	STD	AL	0.15	-	2000	RAIN HOOD

PLAN DESIGNATION:
X TAG ID
1 TAG NUMBER

ACCESSORIES:
RC - REMOVABLE CORE
VC - VOLUME CONTROL
PC - PATTERN CONTROL
AP - AIR PLENUM (LINED)
EQ - EQUALIZING GRID
RFC - ROOF CURB
BD - BACKDRAFT DAMPER

FINISH:
BWE - BAKED WHITE ENAMEL
STD - STANDARD
ENL - BAKED ENAMEL COLOR SELECTED BY ARCHITECT
PGE - PRIME GRAY

MATERIAL:
ST - STEEL
AL - ALUMINUM
SS - STAINLESS STEEL
PL - PLASTIC
SP - SPECIAL

NOTES:
1. PROVIDE LINED SOUND BOOT FOR RETURN AIR DEVICES, SEE DETAIL.
2. 0° DEFLECTION BLADES.
3. 45° DEFLECTION BLADES.
4. PROVIDE ALUMINUM DAMPER.
5. PROVIDE HEAVY DUTY FLOOR MOUNTING FRAME.
6. PROVIDE FRAME AND BORDER WITH CONCEALED FASTENING.
7. PROVIDE CONCEALED BORDER.
8. PROVIDE WITH FACE OPERATED VOLUME DAMPER.

CONDENSING UNIT (CU) SCHEDULE

TAG ID	TAG NUMBER	MANUFACTURER & MODEL NO.	NOMINAL CAPACITY (TONS)	NET CAPACITY (MBH)	REFRIGERANT TYPE	EER	AMBIENT TEMP (°F)	SUCTION TEMP (°F)	RS/RL SIZES (IN.)	NOTES
CU	1	TRANE TTAJ4	25	292	R-410A	11.7	95	40	5/8" / 2-1/8"	1, 2
CU	2	TRANE TTAJ4	25	292	R-410A	11.7	95	40	5/8" / 2-1/8"	1, 2

PLAN DESIGNATION:
X TAG ID
1 TAG NUMBER

NOTES:
1. VERIFY REFRIGERANT PIPING SIZES AND ARRANGMENTS WITH MANUFACTURER.
2. MOUNT UNITS ON CONCRETE PAD WITH NEOPRENE VIBRATION PADS.

HEAT EXCHANGER (HX) SCHEDULE (WATER TO WATER)

TAG ID	TAG NUMBER	MANUFACTURER & MODEL NO.	SERVICE	TYPE	PROCESS COOLING WATER				CHILLED WATER				FOULING FACTOR	HEATING SURFACE SQ. FT.	NOTES
					GPM	EWT °F	LWT °F	PD	GPM	EWT °F	LWT °F	PD			
PHX	1	BELL & GOSSETT - BP405-50	PROCESS CHILLED WATER	BRAZED PLATE	21	70	60	8.90 PSI	13	44	60	3.74 PSI	0.0000	13.87	1, 2

PLAN DESIGNATION:
X TAG ID
1 TAG NUMBER

NOTES:
1. BRAZED PLATE HEAT EXCHANGER.
2. HX SHALL BE MOUNTED ABOVE THE FLOOR, PROVIDE WALL MOUNTING BRACKETS.

BOILER (B) SCHEDULE

TAG ID	TAG NUMBER	MANUFACTURER & MODEL NO.	FIRING RATE (GPH)	OUTPUT CAPACITY (MBH)	BURNER TYPE	TYPE	TURNDOWN	LOCATION	NOTES
B	1	LOCKINVAR CREST FBN2500	2,500	2,300	FIRE-TUBE	CONDENSING	20:1	MECH. RM. 178	1, 2, 3
B	2	LOCKINVAR CREST FBN2500	2,500	2,300	FIRE-TUBE	CONDENSING	20:1	MECH. RM. 178	1, 2, 3

PLAN DESIGNATION:
X TAG ID
1 TAG NUMBER

NOTES:
1. DISCONNECT BY E.C.
2. PROVIDE WITH CONDENSATE NEUTRALIZER.
3. PROVIDE ASTM A53-1 CONTROLS AND SAFETY DEVICES INCLUDING SAFETY SHUT-OFF SWITCHES AT EXIT DOORS.
4. PROVIDE WITH FLUE DAMPER KIT #100141562.

VARIABLE AIR VOLUME BOX WITH HOT WATER (VAV) SCHEDULE

#	TAG NO	MANUFACTURER & MODEL NO.	INLET SIZE (INCHES)	COOLING CFM			DISCH. MAX NC	CFM	AIR TEMP. (F°)		HEATING COIL			MAX WATER PD (FT)	COIL CAPACITY (MBH)	MAX AIR PD (IN W.G.)	NOTES
				MIN	MAX	GPM			EWT	LWT							
											EAT	LAT					
VAV	101	PRICE SDV	6"	90 CFM	300 CFM	25	135 CFM	55	86.9	0.5	140	100	2	4.8	0.35	1, 2, 3, 4, 5	3
VAV	102	PRICE SDV	8"	230 CFM	460 CFM	25	280 CFM	55	77.0	0.5	140	100	2	6.8	0.35	1, 3, 4	
VAV	103	PRICE SDV	9"	180 CFM	600 CFM	25	280 CFM	55	86.9	0.8	140	100	2	9.8	0.35	1, 2, 3, 4	
VAV	104	PRICE SDV	6"	65 CFM	210 CFM	25	105 CFM	55	75.0	0.5	140	100	2	2.3	0.35	1, 3, 4	
VAV	105	PRICE SDV	6"	70 CFM	275 CFM	25	95 CFM	55	74.0	0.5	140	100	2	1.9	0.35	1, 3, 4	
VAV	106	PRICE SDV	7"	105 CFM	350 CFM	25	350 CFM	55	93.0	1.1	140	100	2	14.6	0.35	1, 2, 3, 4	
VAV	107	PRICE SDV	6"	65 CFM	200 CFM	25	170 CFM	55	86.9	0.5	140	100	2	6.0	0.35	1, 2, 3, 4	
VAV	108	PRICE SDV	7"	110 CFM	360 CFM	25	360 CFM	55	95.0	1.4	140	100	2	18.7	0.35	1, 2, 3, 4	
VAV	109	PRICE SDV	8"	170 CFM	495 CFM	25	490 CFM	55	95.0	2.0	140	100	2	26.6	0.35	1, 2, 3, 4	
VAV	110	PRICE SDV	10"	480 CFM	800 CFM	25	600 CFM	55	83.2	1.4	140	100	2	18.6	0.35	1, 2, 3, 4	
VAV	111	PRICE SDV	7"	120 CFM	390 CFM	25	230 CFM	55	86.9	0.6	140	100	2	8.1	0.35	1, 2, 3, 4	
VAV	112	PRICE SDV	6"	50 CFM	150 CFM	25	75 CFM	55	73.5	0.5	140	100	2	1.2	0.35	1, 3, 4	
VAV	113	PRICE SDV	10"	480 CFM	800 CFM	25	500 CFM	55	86.9	1.3	140	100	2	17.6	0.35	1, 2, 3, 4	
VAV	114	PRICE SDV	9"	190 CFM	730 CFM	25	730 CFM	55	86.9	2.0	140	100	2	26.0	0.35	1, 2, 3, 4, 5	
VAV	115	PRICE SDV	14"	600 CFM	1820 CFM	25	1130 CFM	55	86.9	2.9	140	100	2	39.8	0.35	1, 2, 3, 4	
VAV	116	PRICE SDV	7"	125 CFM	370 CFM	25	280 CFM	55	77.0	0.5	140	100	2	6.7	0.35	1, 3, 4	
VAV	117	PRICE SDV	9"	225 CFM	685 CFM	25	550 CFM	55	76.5	0.9	140	100	2	12.8	0.35	1, 2, 3, 4	
VAV	118	PRICE SDV	12"	270 CFM	1135 CFM	25	1135 CFM	50	89.0	3.2	140	100	2	42.4	0.35	1, 2, 3, 4	
VAV	119	PRICE SDV	8"	175 CFM	490 CFM	25	320 CFM	55	86.9	0.9	140	100	2	11.2	0.35	1, 2, 3, 4	
VAV	120	PRICE SDV	6"	100 CFM	285 CFM	25	225 CFM	55	86.9	0.6	140	100	2	7.9	0.35	1, 2, 3, 4	
VAV	121	PRICE SDV	6"	60 CFM	215 CFM	25	185 CFM	55	86.9	0.5	140	100	2	6.5	0.35	1, 2, 3, 4	
VAV	122	PRICE SDV	6"	60 CFM	210 CFM	25	180 CFM	55	86.9	0.5	140	100	2	5.6	0.35	1, 2, 3, 4	
VAV	123	PRICE SDV	14"	700 CFM	1395 CFM	25	1085 CFM	55	86.9	2.9	140	100	2	38.2	0.35	1, 2, 3, 4	
VAV	124	PRICE SDV	14"	700 CFM	1395 CFM	25	1085 CFM	55	86.9	2.9	140	100	2	38.2	0.35	1, 2, 3, 4	
WTA LEVEL 01: 24				5420 CFM 14680 CFM			10555 CFM										
VAV	201	PRICE SDV	6"	65 CFM	200 CFM	25	200 CFM	55	93.4	0.7	140	100	2	8.4	0.35	1, 2, 3, 4, 5	3
VAV	202	PRICE SDV	10"	280 CFM	920 CFM	25	555 CFM	55	75.5	1.0	140	100	2	12.4	0.35	1, 2, 3, 4	
VAV	203	PRICE SDV	4"	45 CFM	80 CFM	25	80 CFM	55	86.9	0.5	140	100	2	1.6	0.35	1, 3, 4	
VAV	204	PRICE SDV	10"	180 CFM	840 CFM	25	505 CFM	55	84.0	1.2	140	100	2	16.0	0.35	1, 2, 3, 4	
VAV	205	PRICE SDV	6"	85 CFM	310 CFM	25	310 CFM	55	86.9	0.8	140	100	2	10.8	0.35	1, 2, 3, 4	
VAV	206	PRICE SDV	6"	85 CFM	310 CFM	25	310 CFM	55	86.9	0.8	140	100	2	10.7	0.35	1, 2, 3, 4	
VAV	207	PRICE SDV	7"	85 CFM	325 CFM	25	325 CFM	55	86.9	0.9	140	100	2	11.2	0.35	1, 2, 3, 4	
VAV	208	PRICE SDV	6"	195 CFM	195 CFM	25	195 CFM	55	86.9	0.5	140	100	2	6.8	0.35	1, 2, 3, 4	
VAV	209	PRICE SDV	14"	480 CFM	1900 CFM	25	990 CFM	55	86.9	2.6	140	100	2	34.7	0.35	1, 2, 3, 4	
VAV	210	PRICE SDV	14"	420 CFM	1500 CFM	25	600 CFM	55	84.0	1.5	140	100	2	19.1	0.35	1, 2, 3, 4	
VAV	212	PRICE SDV	12"	450 CFM	1500 CFM	25	1470 CFM	55	86.9	3.9	140	100	2	51.8	0.35	1, 2, 3, 4	
VAV	213	PRICE SDV	6"	50 CFM	210 CFM	25	140 CFM	55	75.5	0.5	140	100	2	3.1	0.35	1, 3, 4	
VAV	214	PRICE SDV	7"	105 CFM	305 CFM	25	155 CFM	55	75.5	0.5	140	100	2	3.5	0.35	1, 3, 4	
VAV	215	PRICE SDV	5"	65 CFM	200 CFM	25	120 CFM	55	75.5	0.5	140	100	2	2.4	0.35	1, 3, 4	
VAV	216	PRICE SDV	6"	70 CFM	275 CFM	25	95 CFM	55	75.5	0.5	140	100	2	1.9	0.35	1, 3, 4	
VAV	217	PRICE SDV	12"	360 CFM	1200 CFM	25	640 CFM	50	86.9	1.8	140	100	2	23.8	0.35	1, 2, 3, 4	
WTA LEVEL 02: 16				3020 CFM 10270 CFM			6690 CFM										
VAV	301	PRICE SDV	6"	65 CFM	250 CFM	25	250 CFM	55	89.6	0.7	140	100	2	9.5	0.35	1, 2, 3, 4, 5	3
VAV	302	PRICE SDV	6"	110 CFM	360 CFM	25	270 CFM	55	82.0	0.6	140	100	2	8.0	0.35	1, 2, 3, 4	
VAV	303	PRICE SDV	6"	65 CFM	200 CFM	25	110 CFM	55	86.9	0.5	140	100	2	3.9	0.35	1, 2, 3, 4	
VAV	304	PRICE SDV	10"	260 CFM	680 CFM	25	475 CFM	55	86.9	1.3	140	100	2	16.6	0.35	1, 2, 3, 4	
VAV	305	PRICE SDV	10"	200 CFM	735 CFM	25	80 CFM	55	95.5	1.6	140	100	2	21.4	0.35	1, 2, 3, 4	
VAV	306	PRICE SDV	9"	165 CFM	630 CFM	25	540 CFM	55	90.5	1.6	140	100	2	21.2	0.35	1, 2, 3, 4	
VAV	307	PRICE SDV	10"	165 CFM	660 CFM	25	0 CFM	55	93.0	1.7	140	100	2	22.6	0.35	1, 2, 3, 4	
VAV	308	PRICE SDV	10"	240 CFM	935 CFM	25	690 CFM	55	86.9	1.8	140	100	2	24.3	0.35	1, 2, 3, 4	
VAV	309	PRICE SDV	12"	360 CFM	1320 CFM	25	660 CFM	55	86.9	1.8	140	100	2	23.2	0.35	1, 2, 3, 4	
VAV	310	PRICE SDV	14"	540 CFM	1920 CFM	25	975 CFM	55	86.9	2.6	140	100	2	34.3	0.35	1, 2, 3, 4	
VAV	311	PRICE SDV	10"	225 CFM	750 CFM	25	600 CFM	55	86.9	1.6	140	100	2	21.1	0.35	1, 2, 3, 4, 5	
VAV	312	PRICE SDV	12"	430 CFM	1420 CFM	25	810 CFM	50	86.9	2.1	140	100	2	28.4	0.35	1, 2, 3, 4	
VAV	313	PRICE SDV	12"	300 CFM	1180 CFM	25	540 CFM	55	86.9	1.4	140	100	2	18.9	0.35	1, 2, 3, 4	
VAV	314	PRICE SDV	14"	480 CFM	1600 CFM	25	1040 CFM	55	86.3	2.7	140	100	2	36.4	0.35	1, 2, 3, 4	
VAV	315	PRICE SDV	10"	265 CFM	935 CFM	25	795 CFM	55	85.3	2.3	140	100	2	30.8	0.35	1, 2, 3, 4	
VAV	316	PRICE SDV	12"	265 CFM	1040 CFM	25	680 CFM	55	90.0	1.8	140	100	2	23.9	0.35	1, 2, 3, 4	
VAV	317	PRICE SDV	6"	65 CFM	210 CFM	25	205 CFM	55	86.9	0.5	140	100	2	4.1	0.35	1, 3, 4	
VAV	318	PRICE SDV	7"	110 CFM	390 CFM	25	295 CFM	55	75.0	0.5	140	100	2	6.3	0.35	1, 3, 4	
VAV	319	PRICE SDV	6"	75 CFM	320 CFM	25	180 CFM	55	75.0	0.5	140	100	2	6.3	0.35	1, 3, 4	
VAV	320	PRICE SDV	10"	120 CFM	710 CFM	25	215 CFM	55	86.9	0.5	140	100	2	7.6	0.35	1, 2, 3, 4	
VAV	321	PRICE SDV	9"	455 CFM	650 CFM	25	455 CFM	55	86.9	0.6	140	100	2	9.1	0.35	1, 3, 4	
VAV	322	PRICE SDV	6"	70 CFM	275 CFM	25	70 CFM	55	74.0	0.7	140	100	2	1.4	0.35	1, 3, 4	
VAV	411	PRICE SDV	8"	165 CFM	540 CFM	25	325 CFM	50	86.9	0.9	140	100	2	11.3	0.35	1, 2, 3, 4	
WTA LEVEL 03: 23				5195 CFM 17710 CFM			10260 CFM										
VAV	401	PRICE SDV	6"	90 CFM	300 CFM	25	240 CFM	55	86.9	0.8	140	100	2	8.4	0.35	1, 2, 3, 4, 5	3
VAV	402	PRICE SDV	7"	135 CFM	440 CFM	25	440 CFM	55	89.0	1.2	140	100	2	16.4	0.35	1, 2, 3, 4	
VAV	403	PRICE SDV	10"	215 CFM	720 CFM	25	665 CFM	55	86.9	1.8	140	100	2	23.4	0.35	1, 2, 3, 4	
VAV	404	PRICE SDV	9"	180 CFM	610 CFM	25	545 CFM	55	86.9	1.5	140	100	2	19.2	0.35	1, 2, 3, 4	
VAV	405	PRICE SDV	8"	130 CFM	420 CFM	25	355 CFM	55	86.9	1.0	140	100	2	12.5	0.35	1, 2, 3, 4	
VAV	406	PRICE SDV	10"	255 CFM	850 CFM	25	510 CFM	55	86.9	1.4	140	100	2	18.0	0.35	1, 2, 3, 4	
VAV	407	PRICE SDV	10"	300 CFM	1000 CFM	25	480 CFM	55	86.9	1.3	140	100	2	16.9	0.35	1, 2, 3, 4	
VAV	408	PRICE SDV	10"	200 CFM	670 CFM	25	325 CFM	55	86.9	0.9	140	100	2	11.3	0.35	1, 2, 3, 4	
VAV	409	PRICE SDV	8"	150 CFM	500 CFM	25	385 CFM	50	86.9	1.0	140	100	2	13.5	0.35	1, 2, 3, 4, 5	
VAV	410	PRICE SDV	9"	165 CFM	550 CFM	25	440 CFM	55	86.8	1.2	140	100	2	15.4	0.35	1, 2, 3, 4	
VAV	412	PRICE SDV	7"	100 CFM	320 CFM	25	145 CFM	55	86.8	0.5	140	100	2	5.1	0.35	1, 3, 4	
VAV	413	PRICE SDV	10"	270 CFM	900 CFM	25	565 CFM	55	86.9	1.5	140	100	2	19.8	0.35	1, 2, 3, 4	
VAV	414	PRICE SDV	8"	130 CFM	425 CFM	25	255 CFM	55	77.0	1.5	140	100	2	6.2	0.35	1, 3, 4	
VAV	415	PRICE SDV	10"	175 CFM	585 CFM	25	355 CFM	55	81.5	0.8	140	100	2	10.2	0.35	1, 2, 3, 4	
VAV	416	PRICE SDV	7"	100 CFM	335 CFM	25	170 CFM	55	76.0	0.5	140	100	2	3.8	0.35	1, 2, 3, 4	
VAV	417	PRICE SDV	6"	90 CFM	295 CFM	25	100 CFM	55	78.0	0.5	140	100	2	2.5	0.35	1, 2, 3, 4	
WTA LEVEL 04: 16				2685 CFM 8920 CFM			5975 CFM										
Grand total: 79				16320 CFM 51580 CFM			33480 CFM										
PLAN DESIGNATION:				NOTES:													
VAV				1. HEATING COIL SIZES SHALL INCLUDE 25% ADDITIONAL CAPACITY GREATER THAN LISTED IN ABOVE VALUES AT AIR-LOOP AND WATER FLOWS LISTED.													

THE SEAL(S) AND SIGNATURE(S) APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.

Webster
UNIVERSITY

Webster University
Interdisciplinary Science
Building

CANNONDESIGN

1100 Clark Avenue
St. Louis, Missouri 63102
T: 314.241.6250
F: 314.241.2570

William Tao & Associates, Inc.
MEP/FP Engineer
7955 Manchester Road, Suite 125
St. Louis, MO 63143
314-884-7600

David Mason & Associates, Inc.
Structural & Civil Engineer
800 South Vandeventer Avenue
St. Louis, MO 63110
314.534.1053

Faith Group
Technology
3101 S. Hanley Rd., Suite 100
St. Louis, MO 63143
314.591.2225

Kuhlmann Leavitt, Inc.
Environmental Graphics & Signage
7400 Pershing Ave.
St. Louis, MO 63130
314.725.6616

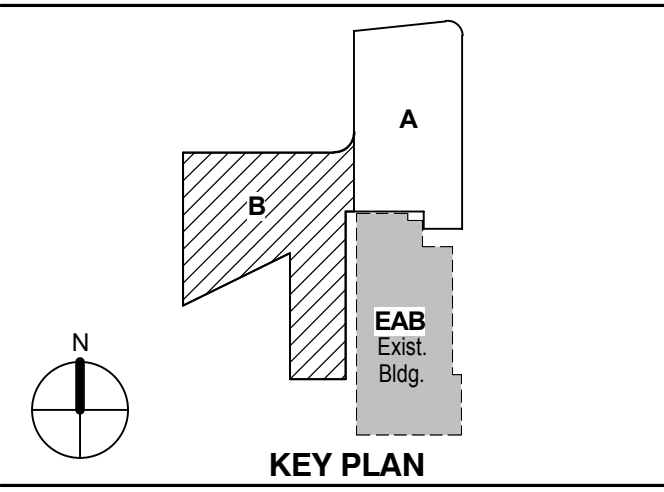
KWA Architects
Architecture
8721 Litzinger Road
St. Louis, MO 63124
314.962.2560

Spellman Brady & Company
Interior Designer
8251 Maryland Avenue, Suite 300
St. Louis, MO 63105
314.862.0070

SWT Design
Landscape Architect
7722 Big Bend Blvd.
St. Louis, MO 63119
314.644.5700

Webb Engineering Services, Inc.
Planning & Fire Protection
1400 S. 3rd Street, Suite 201
St. Louis, MO 63104
314.588.0600

8	ASH-059	12 APR 2017
7	ASH-048	27 JAN 2017
6	ASH-035	10 NOV 2016
5	RFI-329	20 OCT 2016
4	ASH-030	14 OCT 2016
3	ASH-017	14 OCT 2016
2	ADDENDUM 2-2	19 APRIL 2016
1	ADDENDUM 2-1	17 MAR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016



Drawing Title:

LEVEL 01 AREA B FLOOR
PLAN - ELECTRICAL &
AUXILIARY

Project No.: 04561.01 Checked by:

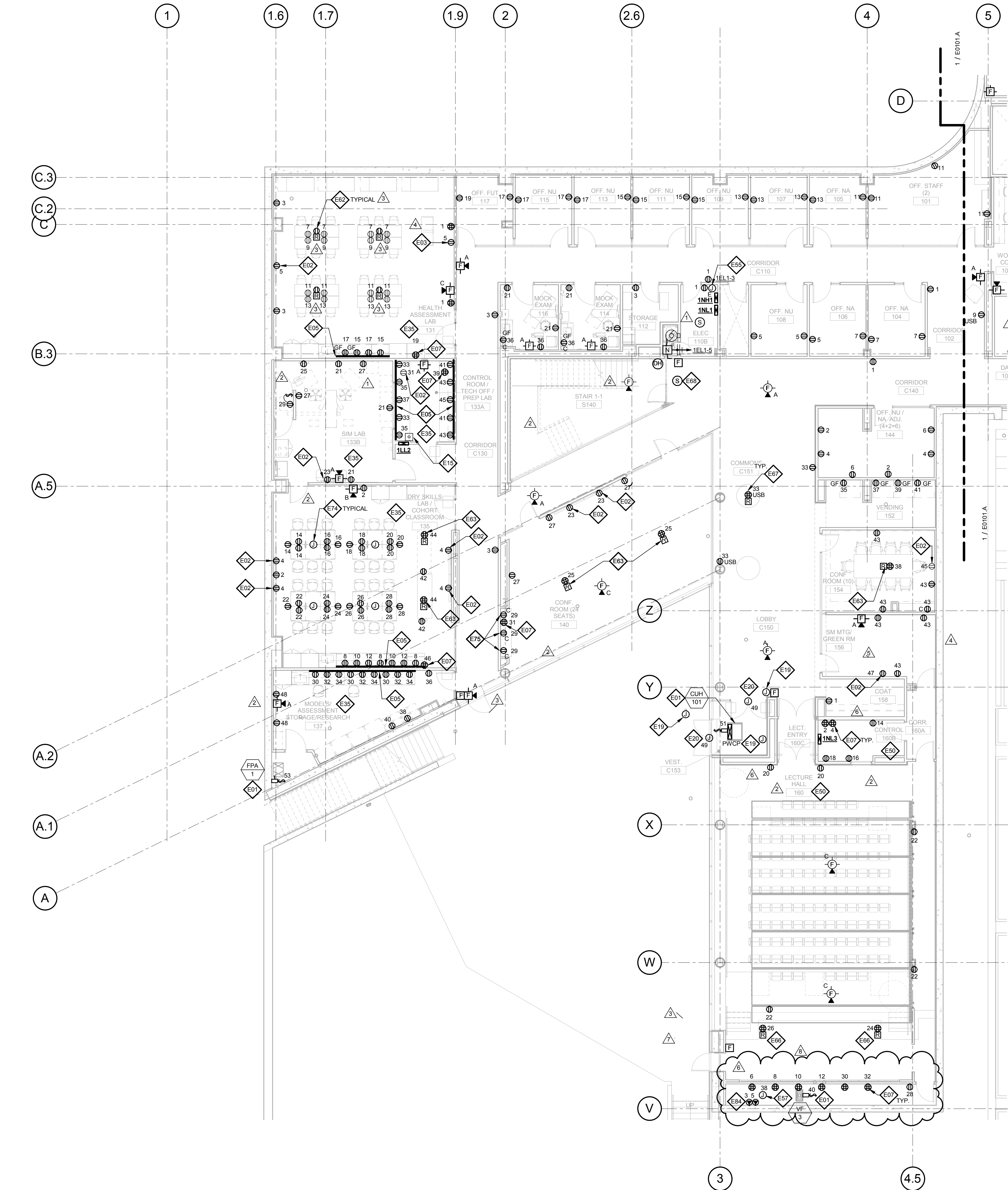
E0101.B

GENERAL NOTES:

- DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR LOCATION AND ORIENTATION OF DEVICES. WHERE LOCATIONS ARE NOT INDICATED ON ARCHITECTURAL DRAWINGS, COORDINATE LOCATION AND ORIENTATION OF DEVICES IN FIELD WITH ARCHITECT PRIOR TO ROUGH-IN.
- ALL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE.
- ALL DEVICES TO REMAIN ARE INDICATED WITH A THIN SOLID LINE WEIGHT AND SUBSCRIPT "EX".
- CONTRACTOR SHALL VISIT PRIOR TO BID SUBMITTALS TO DETERMINE SITE CONDITIONS EFFECTING THE EXECUTION OF WORK. FAILURE TO BE ACQUAINTED WITH EXISTING CONDITIONS WILL NOT BE JUSTIFICATION FOR ADDITIONAL SERVICES.
- PROVIDE FACE PLATES ON ALL J-BOXES ABANDONED IN FINISHED FLOOR, WALL OR CEILINGS. COORDINATE COLOR AND FINISH WITH ARCHITECT. CONTRACTOR TO VERIFY QUANTITY IN THE FIELD.
- WHERE EXPOSED CONDUIT IS NOTED, CONTRACTOR SHALL IDENTIFY ROUTING IN FIELD AND OBTAIN ARCHITECT'S APPROVAL OF ROUTING PRIOR TO ROUGH-IN. EXPOSED CONDUIT SHALL BE ROUTED TIGHT TO STRUCTURE.
- ALL SINGLE PHASE BRANCH CIRCUITS SHOWN SHALL HAVE DEDICATED NEUTRALS TO MEET NEC SECTION 210.4 MULTI-WIRE BRANCH CIRCUIT REQUIREMENTS.
- REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT ROUGH-IN OF DATA, VOICE AND A/V.
- ALL 120V BRANCH CIRCUITS ON THIS SHEET SHALL BE FED FROM PANEL 1NL1 UNLESS NOTED OTHERWISE.

KEYED NOTES

- E01 REFER TO EQUIPMENT DATA SCHEDULE FOR BRANCH CIRCUIT INFORMATION.
- E02 PROVIDE NEW RECEPTACLE FOR MONITOR, COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND TECHNOLOGY PLANS.
- E03 PROVIDE NEW RECEPTACLE FOR WALL MOUNTED PROJECTOR. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.
- E05 PROVIDE NEW TWO SECTION ALUMINUM RACEWAY, WIREMOLD AL4320 WITH RECEPTACLES MOUNTED 24" ON CENTER UNLESS NOTED OR SHOWN OTHERWISE. PROVIDE ALL ACCESSORIES FOR A COMPLETE INSTALLATION. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT AND LENGTH. SEE DETAILS ON SHEET E402.
- E06 OUTLET SHALL BE MOUNTED TO THE BACK SIDE OF THE TELECOMMUNICATION RACK AND FED FROM ABOVE. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH TELECOMMUNICATIONS CONTRACTOR PRIOR TO INSTALLATION.
- E07 OUTLET FOR RACK MOUNTED A/V EQUIPMENT. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.
- E15 PROVIDE MUSHROOM HEAD PUSH BUTTON SWITCH AND 6 POLE CONTACTOR. PUSH BUTTON SHALL DEACTIVATE POWER TO CONTACTOR AND ASSOCIATED CIRCUITS. VERIFY WHICH RECEPTACLES IN SIM LAB SHALL BE CONTROLLED WITH OWNERS REPRESENTATIVE. ALL RECEPTACLES AND COVER PLATES FED THROUGH CONTACTOR SHALL BE RED IN COLOR AND SHALL BE LABELED "NOT ON GENERATOR."
- E19 PROVIDE POWER AND FINAL CONNECTION TO ELECTRIC DOOR OPENER. COORDINATE POWER REQUIREMENTS WITH DOOR INSTALLER PRIOR TO ROUGH-IN.
- E20 PROVIDE POWER AND FINAL CONNECTION TO ELECTRIC DOOR OPENER CONTROLS. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
- E35 ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 1LL2.
- E50 ALL 120V BRANCH CIRCUITS IN THIS ROOM SHALL BE FED FROM PANEL 1NL3.
- E55 PROVIDE POWER TO BUILDING AUTOMATION SYSTEM PANEL. COORDINATE LOCATION WITH AUTOMATION CONTRACTOR.
- E57 PROVIDE POWER TO SUBWOOFER, COORDINATE LOCATION WITH A/V DRAWINGS.
- E62 PROVIDE A 2HR FIRE CLASSIFIED 2-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RFB2S-FC WITH A BRASS FLANGED COVER CAT. NO. FFBTCBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (2) 20A STANDARD DUPLEX RECEPTACLES, NEMA 5-20R. THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- E63 PROVIDE A 2HR FIRE CLASSIFIED 4-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RFB4S-FC WITH A BRASS FLANGED COVER CAT. NO. FFB4S-FC. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (2) 20A DUPLEX RECEPTACLE, (1) GANG - DATA/VOICE (SEE TECHNOLOGY DRAWINGS FOR DEVICE TYPE), (1) GANG - A/V (SEE A/V DRAWINGS FOR DEVICE TYPES). THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- E66 PROVIDE A 2HR FIRE CLASSIFIED 6-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. EFB6S-FC WITH A BRASS FLUSH COVER CAT. NO. EFB610BTBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (2) 20A DUPLEX RECEPTACLE, (1) GANG - DATA/VOICE (SEE TECHNOLOGY DRAWINGS FOR DEVICE TYPE), (3) GANG - A/V (SEE A/V DRAWINGS FOR DEVICE TYPES). THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- E67 PROVIDE A 2HR FIRE CLASSIFIED 2-GANG MULTI-SERVICE STEEL RECESSED FLOOR BOX EQUAL TO WIREMOLD CAT. NO. RFB2S-FC WITH A BRASS FLANGED COVER CAT. NO. FFBTCBS-NA. THE FLOOR BOX SHALL HAVE ALL NECESSARY MOUNTING BRACKETS FOR (2) 20A DUPLEX RECEPTACLES WITH USB PORTS. THE BOX SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS SO THAT THE COVER IS FLUSH WITH THE FLOOR.
- E68 PROVIDE FIRE ALARM CONTROL MODULE TO RELEASE POWER TO ELECTRICALLY HELD OPEN FIRE DOOR UPON ACTIVATION OF ASSOCIATED SMOKE DETECTOR.
- E70 PROVIDE NEMA L5-20R, 20A-120V TWIST LOCK RECEPTACLE FOR RACK MOUNTED PDU. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH TECHNOLOGY CONTRACTOR.
- E74 FEED FIXED FURNITURE FROM BELOW AND MAKE ALL FINAL CONNECTIONS TO RECEPTACLES.
- E75 RECEPTACLES SHALL BE MOUNTED HORIZONTALLY. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS.
- E84 PROVIDE (2) NEMA L5-20 OUTLETS FOR VIDEO WALL. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND A/V DRAWINGS.



1 LEVEL 01 - AREA B - FLOOR PLAN - POWER AND AUXILIARY

1/8" = 1'-0"

THE SEAL(S) AND SIGNATURE(S) APPLY ONLY TO THE DOCUMENT TO WHICH THEY ARE AFFIXED, AND EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS OR OTHER DOCUMENTS OR INSTRUMENTS RELATING TO OR INTENDED TO BE USED FOR ANY PART OR PARTS OF THE ARCHITECTURAL OR ENGINEERING PROJECT.



Webster University Interdisciplinary Science Building

CANNONDESIGN

1100 Clark Avenue
St. Louis, Missouri 63102
T: 314.241.6250
F: 314.241.2570

William Tao & Associates, Inc.
ME/PFP Engineer
7955 Manchester Road, Suite 125
St. Louis, MO 63143
314-884-7600

David Mason & Associates, Inc.
Structural & Civil Engineer
800 South Vandeventer Avenue
St. Louis, MO 63110
314.534.1053

Faith Group
Technology
3101 S. Hanley Rd., Suite 100
St. Louis, MO 63143
314.591.2228

Kuhlmann Leavitt, Inc.
Environmental Graphics & Signage
7400 Pershing Ave.
St. Louis, MO 63130
314.725.6616

KWA Architects
Architecture
8721 Litzinger Road
St. Louis, MO 63124
314.962.2560

Spellman Brady & Company
Interior Designer
8251 Maryland Avenue, Suite 300
St. Louis, MO 63105
314.862.0070

SWT Design
Landscape Architect
7722 Big Bend Blvd.
St. Louis, MO 63119
314.644.5700

Webb Engineering Services, Inc.
Planning & Fire Protection
1400 S. 3rd Street, Suite 201
St. Louis, MO 63104
314.588.0600

Panel: 1NL2													
Location: MAIN ELECTRICAL 192				Volts: 120/208 Wye				A.I.C. Rating: 10,000					
Supply From: SB-1				Phases: 3				Mains Type: MLO					
Mounting: S				Wires: 4				Mains Rating: 225 A					
Enclosure: Type 1								MCB Rating:					
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Main Electrical 192 - Receptacles	20 A	1	720	180					1	20 A	Teaching Kitchen 174 - Counter	2
3	Corridor C180 - Receptacles	20 A	1			540	4118			1	20 A	Teaching Kitchen 174 - Dish Washer	4
5	Bldg stor 184, Cust Stor 186 - Receptacles	20 A	1					360	4118	1	20 A	Spare	6
7	Toilet 180, 182 - Receptacles	20 A	1	360	0					1	20 A	Teaching Kitchen 174 - Ice Machine	8
9	Mechanical Room 178 - Receptacles	20 A	1			720	1800			1	20 A	Teaching Kitchen 174 - Counter	10
11	Mechanical Room 178 - HHW-1	20 A	1					720	180	1	20 A	Teaching Kitchen 174 - Microwave	12
13	Mechanical Room 178 - HHW-2	20 A	1	720	1500					1	20 A	Teaching Kitchen 174 - Refrigerator	14
15	Mechanical Room 178 - HHW-3	20 A	1			720	180			1	20 A	Teaching Kitchen 174 - Double Oven	16
17	Star 2-1 - CUH-102	15 A	1					40	1000	1	20 A	Teaching Kitchen 174 - Island Apron	18
19	Dock 172 - UH-101, Mech Rm 178 UH-102	15 A	1	48	2700					2	30 A	Teaching Kitchen 174 - Island Computer	20
21	Loading Dock 172, Recycling 172A	20 A	1			720	2700					Teaching Kitchen 174 - AV Rack	22
23	Elevator Control Room - Receptacle	20 A	1					180	180	1	20 A	Teaching Kitchen 174 - Wall Receptacles	24
25	Elevator Control Room - VF-2	15 A	1	350	180					1	20 A	Spare	26
27	MDF Room - Receptacles	20 A	1			360	180			1	20 A	Spare	28
29	MDF Room - Receptacles	20 A	1					360	180	1	20 A	Spare	30
31	MDF Room - Receptacles	20 A	1	360	180					1	20 A	Spare	32
33	MDF Room - Receptacles	20 A	1			360	180			1	20 A	Spare	34
35	Mechanical Room 178 - HHW-1	20 A	1					125	600	1	20 A	Spare	36
37	Exterior - East Wall	20 A	1	360	0			--	--	1	20 A	Spare	38
39	Toilet 182 - Electric Hand Dryer	20 A	1			1490	1800			1	20 A	Spare	40
41	Toilet 180 - Electric Hand Dryer	20 A	1					1490	0	--	--	Shunt Trip	42
43	Spare	20 A	1	0	360					1	20 A	Teaching Kitchen 174 - Projector/Monitor	44
45	Spare	20 A	1			0	360			1	20 A	Teaching Kitchen 174 - A/V Rack	46
47	Spare	20 A	1					0	540	1	20 A	Teaching Kitchen 174 - Wall Receptacles	48
49						0				1	20 A	Spare	50
51						1248	0			1	20 A	Spare	52
53	MECHANICAL ROOM 178 - VF-4	30 A	2					1248	0	1	20 A	Spare	54
Total Load:				8018 VA		17476 VA		11321 VA					
Total Amps:				67 A		150 A		99 A					
Notes:													

Panel: 1NL1													
Location: ELEC 110B				Volts: 120/208 Wye				A.I.C. Rating: 10,000					
Supply From: SB-1				Phases: 3				Mains Type: MCB/SFL					
Mounting: S				Wires: 4				Mains Rating: 225 A					
Enclosure: Type 1								MCB Rating:					
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Power Elec 11.08.1	20 A	1	900 VA	360 VA					1	20 A	Office NUNNA ADJ 144 - Receptacles	2
3	Power Mock Beds Stor. 7.10	20 A	1			540 VA	360 VA			1	20 A	Office NUNNA ADJ 144 - Receptacles	4
5	Power Nursing 7.03.3	20 A	1					540 VA	360 VA	1	20 A	Office NUNNA ADJ 144 - Receptacles	6
7	Power Anesthesia 6.08.3	20 A	1	540 VA	180 VA					1	20 A	Work/Copy 100A - Counter	8
9	Power Corridor 102 USB	20 A	1			180 VA	180 VA						10
11	Power Staff (2) 9.06.1	20 A	1					720 VA	180 VA	2	30 A	Work/Copy 100A - Printer	12
13	Power Anesthesia 6.08.2	20 A	1	720 VA	360 VA					1	20 A	Kettle 100C - Counter	14
15	Power Nursing 7.03.2	20 A	1			720 VA	1656...			1	20 A	Kettle 100C - GD-1	16
17	Power Nursing 7.03.4	20 A	1					720 VA	1000...	1	20 A	Kettle 100C - Refrigerator	18
19	Power Nursing 7.03.6	20 A	1	180 VA	360 VA					1	20 A	Kettle 100C - Desk	20
21	Power Mock Beds 7.10	20 A	1			720 VA	360 VA			1	20 A	Kettle 100C - Desk	22
23	Power Conf Rm 24 Seats 10.06 Monitor	20 A	1					360 VA	540 VA	1	20 A	Elev 1 Ptl. JC 175, Corridor C180	24
25	Power Conference Room 24 Seats 10.06	20 A	1	360 VA	370 VA					1	20 A	EWIC-1	26
27	Power Conference Room 24 Seats 10.06	20 A	1			540 VA	360 VA			1	20 A	Women 177, Men 179	28
29	Power Conference Room 24 Seats 10.06	20 A	1					540 VA	180 VA	1	20 A	Data - 100B	30
31	Power Conference Room 24 Seats 10.06	20 A	1	360 VA	180 VA					1	20 A	Corridor C140 - Digital Signage	32
33	Power Commons-2 10.04-2	20 A	1			540 VA	0 VA			1	20 A	Spare	34
35	Power Vending 11.28	20 A	1					180 VA	720 VA	1	20 A	Power Rm. 114,116	36
37	Power Vending 11.28	20 A	1	180 VA	180 VA					1	20 A	Power Rm. 154	38
39	Power Vending 11.28	20 A	1			180 VA	720 VA			1	20 A	Power Conference Room 24 Seats - Shades	40
41	Power Vending 11.28	20 A	1					180 VA	1490...	1	20 A	Men 179 - Electric Hand Dryer	42
43	Power Conf Rm 154	20 A	1	1260...	1490...					1	20 A	Women 177 - Electric Hand Dryer	44
45	Power Conf Rm 154 Monitor	20 A	1			180 VA	540 VA			1	20 A	Power Courtyard Bollard - Receptacles	46
47	Power Sim Mfg/ Green Rm 156 Monitor	20 A	1					180 VA	360 VA	1	20 A	Power Courtyard Bollard - Receptacles	48
49	Vest. C153 - Elec Door Opener	20 A	1	360 VA	540 VA					1	20 A	Power	50
51	Vest. C153 - CUH-101	15 A	1			40 VA	0 VA			1	20 A	Spare	52
53	Fire Protection Room 137A - FPA-1	15 A	1					528 VA	0 VA	1	20 A	Spare	54
55	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	56
57	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	58
59	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	60
Total Load:				8880 VA		7816 VA		8775 VA					
Total Amps:				75 A		65 A		74 A					

Panel: 1LL2

Location: CORRIDOR C130

Supply From: SB-2

Mounting: F

Enclosure: Type 1

Volts: 120/208 Wye

Phases: 3

Wires: 4

A.I.C. Rating: 10,000

Mains Type: MCB

Mains Rating: 225 A

MCB Rating:

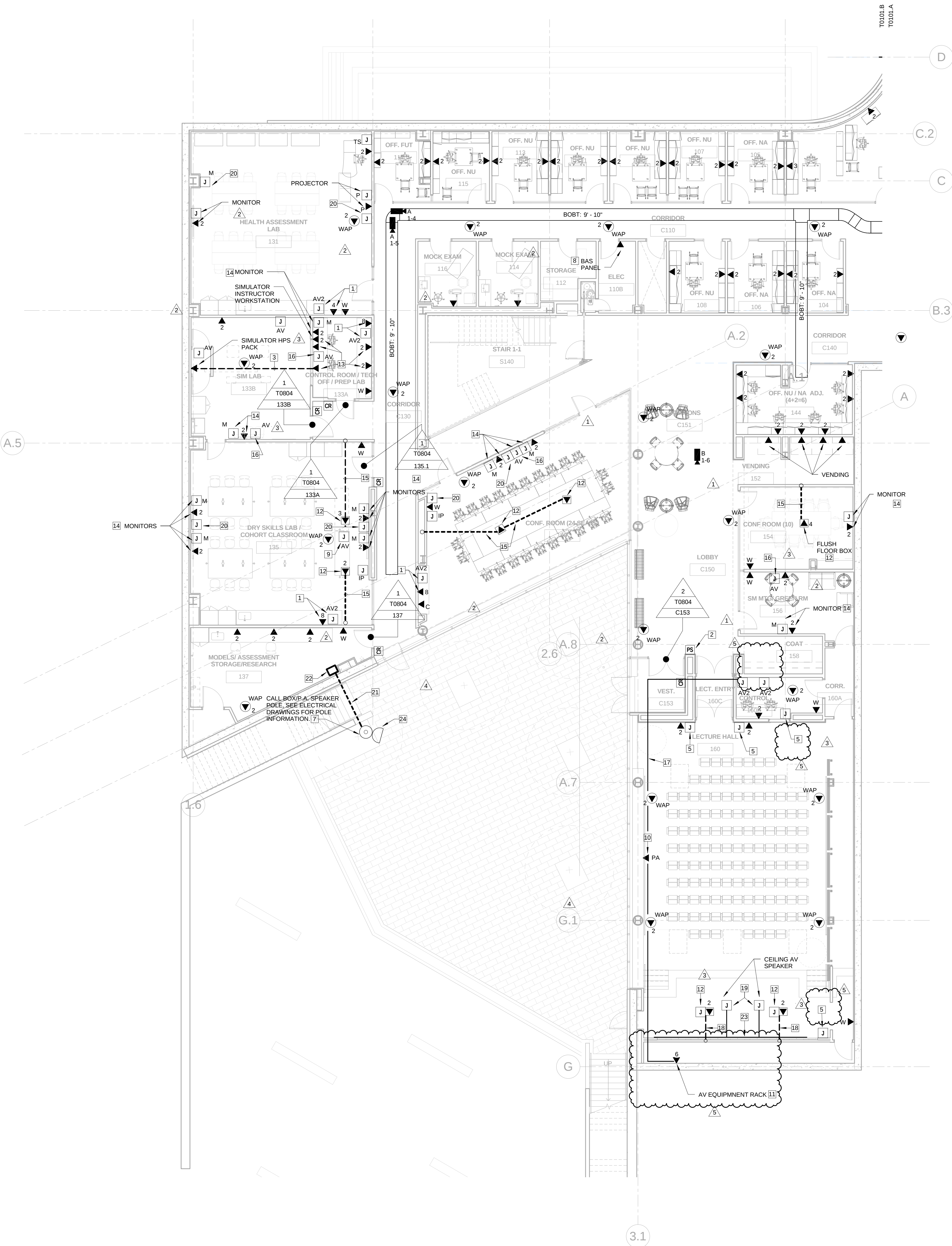
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Health Assessment Lab 131 - Teacher	20 A	1	720	360					1	20 A	Dry Skills Lab/Classroom 135 - Receptacles	2
3	Health Assessment Lab 131 - Receptacles	20 A	1			360	720			1	20 A	Dry Skills Lab/Classroom 135 - Monitors	4
5	Health Assessment Lab 131 - Monitor	20 A	1					360	0	1	20 A	Spare	6
7	Health Assessment Lab 131 - Desk	20 A	1	720	540					1	20 A	Dry Skills Lab/Classroom 135 - Surface...	8
9	Health Assessment Lab 131 - Desk	20 A	1			720	360			1	20 A	Dry Skills Lab/Classroom 135 - Surface...	10
11	Health Assessment Lab 131 - Desk	20 A	1					720	360	1	20 A	Dry Skills Lab/Classroom 135 - Surface...	12
13	Health Assessment Lab 131 - Desk	20 A	1	720	540					1	20 A	Dry Skills Lab/Classroom 135 - Desk	14
15	Health Assessment Lab 131 - Surface Raceway	20 A	1			360	540			1	20 A	Dry Skills Lab/Classroom 135 - Desk	16
17	Health Assessment Lab 131 - Surface Raceway	20 A	1					360	540	1	20 A	Dry Skills Lab/Classroom 135 - Desk	18
19	Health Assessment Lab 131 - A/V Receptacle	20 A	1	360	540					1	20 A	Dry Skills Lab/Classroom 135 - Desk	20
21	Sim Lab 133B - Receptacle	20 A	1			540	540			1	20 A	Dry Skills Lab/Classroom 135 - Desk	22
23	Sim Lab 133B - Receptacle	20 A	1					180	540	1	20 A	Dry Skills Lab/Classroom 135 - Desk	24
25	Sim Lab 133B - Receptacle	20 A	1	180	540					1	20 A	Dry Skills Lab/Classroom 135 - Desk	26
27	Sim Lab 133B - Receptacle	20 A	1			360	540			1	20 A	Dry Skills Lab/Classroom 135 - Desk	28
29	Sim Lab 133B - Receptacle	20 A	1					180	540	1	20 A	Models/Storage/Research 137 - Surface...	30
31	Control Room 133A - Monitor	20 A	1	180	540					1	20 A	Models/Storage/Research 137 - Surface...	32
33	Control Room 133A - Surface Raceway	20 A	1			360	540			1	20 A	Models/Storage/Research 137 - Surface...	34
35	Control Room 133A - Surface Raceway	20 A	1					360	180	1	20 A	Models/Storage/Research 137 - Surface...	36
37	Control Room 133A - Surface Raceway	20 A	1	180	180					1	20 A	Models/Storage/Research 137 - Receptacles	38
39	Control Room 133A - A/V Receptacle	20 A	1			360	180			1	20 A	Models/Storage/Research 137 - Receptacles	40
41	Control Room 133A - Surface Raceway	20 A	1					360	360	1	20 A	Dry Skills Lab/Classroom 135 - Movable Table	42
43	Control Room 133A - Surface Raceway	20 A	1	360	360					1	20 A	Dry Skills Lab/Classroom 135 - Floor Box	44
45	Control Room 133A - Surface Raceway	20 A	1			180	360			1	20 A	Dry Skills Lab/Classroom 135 - A/V Receptacle	46
47	Spare	20 A	1					0	360	1	20 A	Models/Storage/Research 137 - Receptacles	48
49	Spare	20 A	1	0	0					1	20 A	Spare	50
51	Spare	20 A	1			0	0			1	20 A	Spare	52
53	Spare	20 A	1					0	0	1	20 A	Spare	54
Total Load:				7020 VA		7020 VA		5400 VA					
Total Amps:				61 A		61 A		45 A					

Notes:

Panel: 1LL1													
Location: MAIN ELECTRICAL 192					Volts: 120/208 Vye			A.I.C. Rating: 10,000					
Supply From: SB-2					Phases: 3			Mains Type: MLO					
Mounting: S					Wires: 4			Mains Type: 225 A					
Enclosure: Type 1								MCB Rating:					
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Cadaver Lab 191 - Projector / Motorized Screen	20 A	1	720	0					1	20 A	Spare	2
3	Cadaver Lab 191 - Monitors	20 A	1			720	0			1	20 A	Spare	4
5	Cadaver Lab 191 - Tables	20 A	1					720	0	1	20 A	Spare	6
7	Cadaver Lab 191 - Tables	20 A	1	720	0					1	20 A	Spare	8
9	Cadaver Lab 191 - Tables	20 A	1			720	0			1	20 A	Spare	10
11	Cadaver Lab 191 - Teacher	20 A	1					540	0	1	20 A	Spare	12
13	Cadaver Lab 191 - Counter	20 A	1	360	0					1	20 A	Spare	14
15	Power CADAVER LAB 191	20 A	1			360	0			1	20 A	Spare	16
17	185, 187, 193C - Receptacles	20 A	1					720	0	1	20 A	Spare	18
19	Cadaver Lab Workroom 183B - Surface...	20 A	1	360	0					1	20 A	Spare	20
21	Cadaver Lab Workroom 183B - Surface...	20 A	1			360	0			1	20 A	Spare	22
23								0		1	20 A	Spare	24
25	Cadaver Lab Workroom 183B - Surface...	20 A	1	360	0					1	20 A	Spare	26
27	Cadaver Lab Workroom 183B - Surface...	20 A	1			360	0			1	20 A	Spare	28
29	Cadaver Lab Workroom 183B - UC Refrigerator	20 A	1					500	0	1	20 A	Spare	30
31	Power CYLINDER ROOM 187	20 A	1	360	0					1	20 A	Spare	32
33							0			1	20 A	Spare	34
35	Spare	20 A	1					0	0	1	20 A	Spare	36
37	Spare	20 A	1	0	0					1	20 A	Spare	38
39	Spare	20 A	1			0	0			1	20 A	Spare	40
41	Spare	20 A	1					0	0	1	20 A	Spare	42
Total Load:				2880 VA		2520 VA		2480 VA					
Total Amps:				24 A		21 A		21 A					
Notes:													

© Cannon Design 2015
All rights reserved. No part of this document may be reproduced or transmitted in any form without written authorization by The Cannon Corporation.
4/10/2017 3:23:38 PM

1 LEVEL 01 - AREA B
1/8" = 1'-0"



GENERAL NOTES:

THIS SHEET ONLY

1. DATA OUTLETS IN OFFICES SHALL BE LOCATED ADJACENT TO AND AT THE SAME MOUNTING HEIGHT AS THE POWER RECEPTACLES, COORDINATE LOCATION WITH THE ELECTRICAL CONTRACTOR.
2. TELECOMMUNICATION CABLEING ON THIS SHEET SHALL BE RUN TO LEVEL 01 DATA ROOM 100B.
3. FLOOR BOXES ARE SPECIFIED ON THE ELECTRICAL DRAWINGS UNLESS OTHERWISE NOTED.

KEYED NOTES:

THIS SHEET ONLY

1. CABINET MOUNTED AV EQUIPMENT (OFVI), COORDINATE DEVICE LOCATION WITH CABINET AND AV EQUIPMENT INSTALLER.
2. LOCAL DOOR LOCK POWER SUPPLY.
3. PROVIDE (1) CAT 6A CABLE IN 1" PVC CONDUIT IN SLAB, COORDINATE TERMINATION REQUIREMENTS WITH SIMULATOR EQUIPMENT INSTALLER.
4. PROVIDE A FLUSH MOUNTED WALL BOX (HUBBELL HBL260) WITH A SINGLE GANG RING FOR AV CABLES. STUB A 2" CONDUIT INTO ACCESSIBLE CEILING SPACE.
5. PROVIDE (1) 4 GANG J-BOX WITH (1) 1-1/2" CONDUITS STUBBED INTO ACCESSIBLE CEILING SPACE. MOUNT AT RECEPTACLE HEIGHT.
6. PROVIDE A 4-11/16" SQUARE X 2-1/8" DEEP BOX WITH 2-GANG RING (VERTICAL) AND (1) 1-1/2" CONDUIT STUBBED INTO ACCESSIBLE CEILING.
7. POLE MOUNT BLUE LIGHT EMERGENCY INTERCOM STATION WITH WIRELESS RAPID COMMUNICATION. SHALL BE FURNISHED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. STATION SHALL BE MOUNTED SO INTERCOM IS 48" ABOVE GRADE. SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
8. CONFIRM EXACT LOCATION AND TERMINATION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
9. PROVIDE (2) AV BACK BOXES WALL MOUNTED AT RECEPTACLE HEIGHT.
10. NOT USED.
11. PROVIDE A 24" W X 4" H VERTICAL WALL MOUNTED BASKET TRAY FROM THE AV EQUIPMENT RACK UP INTO THE ACCESSIBLE CEILING SPACE FOR AV CABLEING. COORDINATE EXACT LOCATION WITH AV EQUIPMENT INSTALLER.
12. SEE ELECTRICAL DRAWINGS FOR FLOOR BOX INFORMATION.
13. INSTALL COMMUNICATION OUTLET IN THE COMMUNICATIONS SIDE OF THE 2-CHANNEL RACEWAY. SEE ELECTRICAL DRAWINGS FOR RACEWAY INFORMATION.
14. CONFIRM EXACT LOCATION OF DATA OUTLET AND MONITOR BOX WITH AV VENDOR PRIOR TO INSTALLATION.
15. PROVIDE (2) 1" CONDUITS IN SLAB FOR DATA AND AV CABLES. STUB CONDUIT UP THROUGH WALL CAVITY TO ACCESSIBLE CEILING SPACE.
16. MOUNT AT RECEPTACLE MOUNTING HEIGHT.
17. PROVIDE (1) 2 1/2" EMPTY CONDUIT WITH PULL STRING ABOVE CEILING BETWEEN AV EQUIPMENT RACKS FOR AV CABLES (AV CABLE PROVIDED BY AV EQUIPMENT INSTALLER).
18. PROVIDE (1) 1 1/2" CONDUIT FOR AV AND (1) 1" CONDUIT FOR DATA IN SLAB, STUB UP INTO ACCESSIBLE CEILING SPACE.
19. STUB (1) 1" CONDUIT INTO AV EQUIPMENT ROOM.
20. PROVIDE A 4-11/16" SQUARE X 2-1/8" DEEP WALL MOUNTED BOX WITH 2 GANG RING FOR PTZ CAMERA WITH A 1" CONDUIT WITH PULL STRING STUBBED INTO ACCESSIBLE CEILING SPACE. COORDINATE MOUNTING HEIGHT AND LOCATION WITH PTZ CAMERA INSTALLER.
21. PROVIDE 2#18 IN A 1/2" UNDERGROUND R/C CONDUIT FROM THE P.A. AMPLIFIER TO THE POLE MOUNTED P.A. SPEAKER. ROUTE CONDUIT AS DIRECT AS POSSIBLE, DO NOT EXCEED WIRE LENGTH OF 50'. MAKE FINAL TERMINATIONS AT BOTH ENDS.
22. P.A. AMPLIFIER (OFI) MOUNTED ABOVE ACCESSIBLE CEILING ADJACENT TO CONDUIT STUB-UP (SEE KEYED NOTE 21).
23. PROVIDE A 1 1/2" CONDUIT NIPPLE FOR EACH VIDEO MONITOR THROUGH WALL FOR VIDEO WALL.
24. OFCI OUTDOOR P.A. SPEAKER POLE MOUNTED AT 12'-0" ABOVE FINISHED GRADE TO THE SIDE SURFACE OF THE POLE. FIELD DRILL HOLE FOR CONDUCTOR CONNECTION TO THE SPEAKER (SEE KEYED NOTE 21). EXPOSED CONDUCTORS SHALL BE INSTALLED IN A LIQUIDTIGHT FLEXIBLE CONDUIT FROM THE POLE TO THE SPEAKER. PROVIDE A CONDUCTOR DRIP LOOP.



Webster University
Interdisciplinary Science
Building

CANNONDESIGN

1100 Clark Avenue
St. Louis, Missouri 63102
T: 314.241.6250
F: 314.241.2570

William Tao & Associates, Inc.
ME/PE/PP Engineer
7955 Manchester Road, Suite 125
St. Louis, MO 63143
314-884-7600

David Mason & Associates, Inc.
Structural & Civil Engineer
800 South Vandeventer Avenue
St. Louis, MO 63110
314.534.1053

Faith Group
Technology
3101 S. Hanley Rd., Suite 100
St. Louis, MO 63143
314.991.2229

Kuhnmann Leavitt, Inc.
Environmental Graphics & Signage
7400 Pershing Ave.
St. Louis, MO 63130
314.725.6616

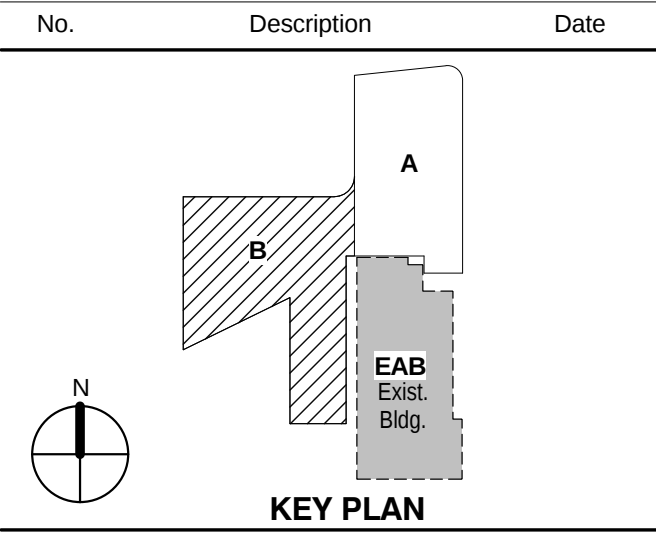
KWA Architects
Architecture
9721 Litzinger Road
St. Louis, MO 63124
314.962.2560

Spellman Brady & Company
Interior Designer
8251 Maryland Avenue, Suite 300
St. Louis, MO 63105
314.862.0070

SWT Design
Landscape Architect
7722 Big Bend Blvd.
St. Louis, MO 63119
314.644.5700

Webb Engineering Services, Inc.
Planning & Fire Protection
1400 S. 3rd Street, Suite 201
St. Louis, MO 63104
314.588.0600

5	ASI-059	12 APR 2017
4	ASI-040	09 DEC 2016
3	ASI-035	10 NOV 2016
2	ASI-030	14 OCT 2016
1	ADDENDUM 2-2	19 APR 2016
-	ISSUED FOR CONSTRUCTION (BP2)	01 MAR 2016



Drawing Title:

**LEVEL 01 FLOOR PLAN -
AREA B**

Project No.: 04561.01 Checked by:

T0101.B