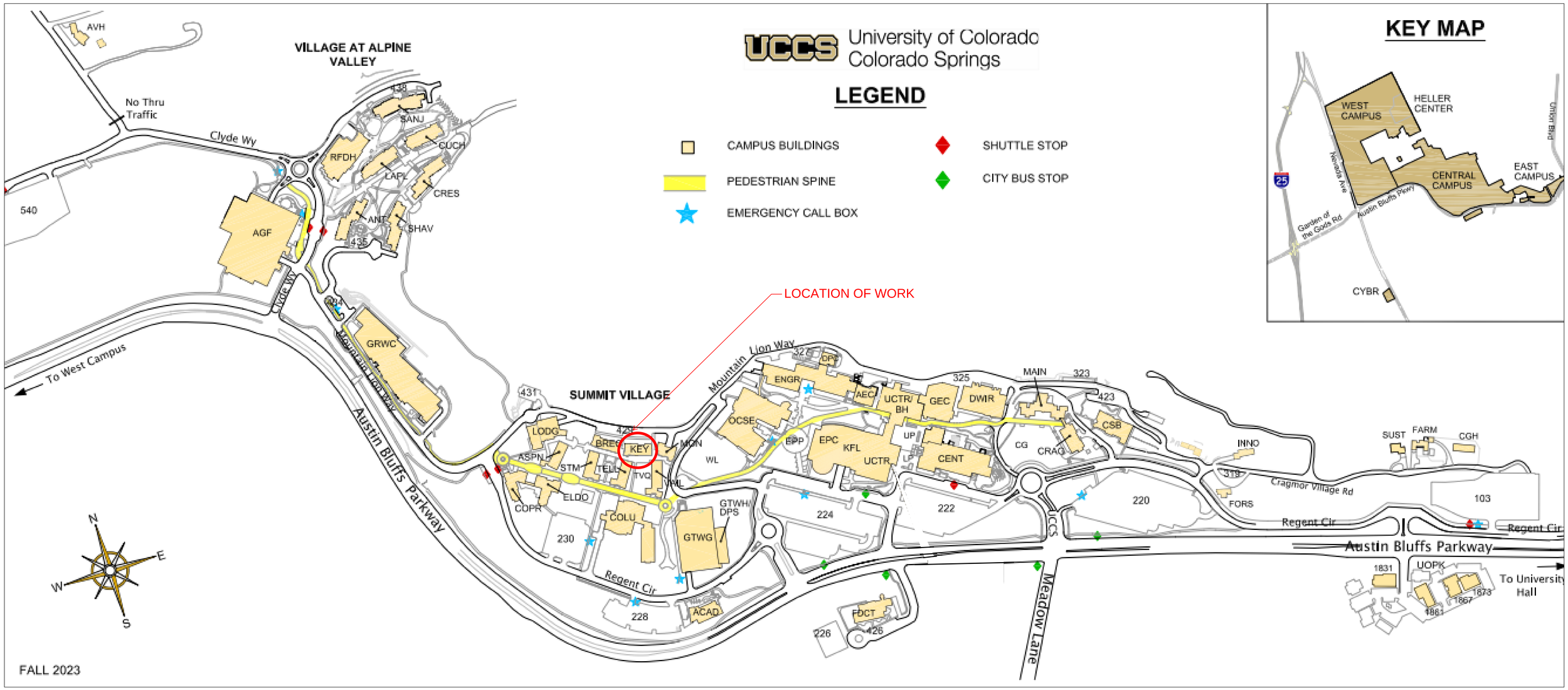
UCCS KEYSTONE BOILER REPLACEMENT



COVER SHEET

AS BUILT DRAWINGS (FOR REFERENCE)

SD1 SITE PLAN
A5 BUILDING C - PLAZA LEVEL FLOOR PLAN
M-20 MECHANICAL ROOM FOR BUILDINGS 'B', 'C', & 'D'
M-23 BLDG 'B', 'C', 'D', 'F', 'G', & 'H' HEATING WATER SCHEMATIC
M-26 SCHEDULES
M-27 SCHEDULES

GENERAL SITE NOTES

- ARCHITECTURAL BUILDING FINISH FLOOR ELEVATION 100'-0" (ALWAYS FEET & INCHES) EQUALS CIVIL SITE ELEVATION 6397.00 (ALWAYS DECIMAL FEET).
- SEE SHEETS A1 THRU A9 FOR ADDITIONAL PLAN NOTES.
- CONTRACTOR SHALL PROTECT AND MAINTAIN EXISTING SITE AND WILL BE RESPONSIBLE TO PATCH OR REPLACE ALL AREAS DAMAGED DURING CONSTRUCTION TO RETURN TO THE CONDITION PRIOR TO CONSTRUCTION.
- REFER TO LANDSCAPE DRAWINGS FOR PLANTING MATERIALS AND PLACEMENT.
- REFER TO CIVIL DRAWINGS FOR SITE GRADING, HORIZONTAL LAYOUT, UTILITIES AND CIVIL DETAILS.
- REFER TO CIVIL DRAWINGS FOR SPOT ELEVATION ON SIDEWALKS ADJACENT TO BUILDING
- REFER TO CIVIL, ELECTRICAL AND MECHANICAL DRAWINGS FOR BUILDING UTILITIES.
- REFER TO ELECTRICAL DRAWINGS FOR SITE ELECTRICAL ITEMS.
- SEE DRAWING 3SD3 FOR TYPICAL CONCRETE CONTROL JOINT.
- SEE DRAWING 4SD3 FOR TYPICAL SIDEWALK EXPANSION JOINT. (EJ)
- ROOFS AT LINK AREAS BETWEEN BUILDINGS B&C AND C&D ARE NOT SHOWN FOR CLARITY AT GRADE.

BUILDING E
THE LODGE

BUILDING A
ASPEN HOUSE

BUILDING B
BRECKENRIDGE HOUSE

BUILDING C
KEYSTONE HOUSE

BUILDING D
MONARCH HOUSE

BUILDING F
STEAMBOAT HOUSE

BUILDING G
TELLURIDE HOUSE

BUILDING H
VAIL HOUSE

ASPHALT SERVICE DRIVE

PARKING STALLS FOR LOADING & UNLOADING ONLY

LOADING ZONE/ NO PARKING ON PEDESTRIAN SPINE

EXISTING PARKING LOT

TURNAROUND TO BE COMPLETED AS PART OF A FUTURE PROJECT

SEE CIVIL DRAWINGS FOR EXTENT OF NEW ROAD CONSTRUCTION

NOTE: REFER TO PLANT PROTECTION PLAN AND CIVIL DRAWINGS FOR LIMITS OF WORK WITHIN ARROYOS

NOTE: CONNECT NEW ROAD AND CURBS TO EXISTING ROAD AND CURBS

SEE CLASSROOM OFFICE BUILDING PLANS FOR EXTENT AND CONFIGURATION OF SIDE WALK

1 A01 SITE PLAN – PHASE I
1"=30'

TRUE NORTH

AS BUILT DRAWING
BACKGROUND FOR
REFERENCE ONLY

RECORD DRAWING
APRIL 21, 1998

UNIVERSITY OF COLORADO-COLORADO SPRINGS
CAMPUS HOUSING VILLAGE - PHASE I
COLORADO SPRINGS, COLORADO

ANDERSON MASON DALE
A Professional Corporation for Architecture
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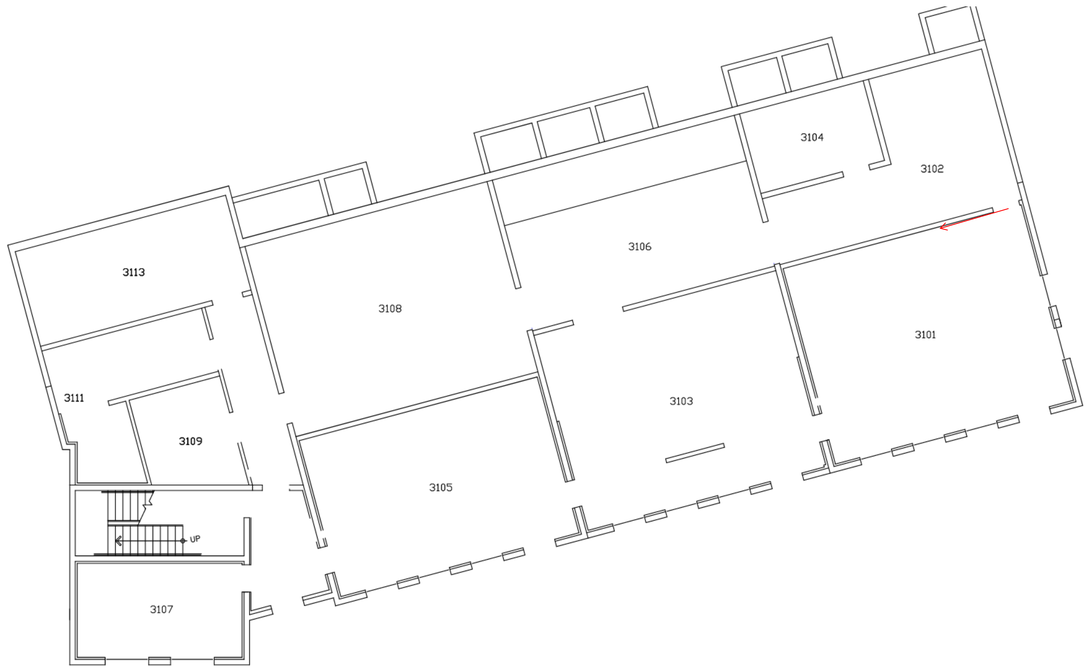
532 NORTH TEJON STREET
COLORADO SPRINGS, COLORADO 80903
PH 719 473-7225 FAX 719 632 5164

SITE PLAN
STAIR/RETAINING WALL SECTIONS

JOB NO.	9440004
DATE	10/9/95
SCALE	AS SHOWN
DRAWN	REW/CWO
CHECKED	GOG

SHEET SD1 OF 4



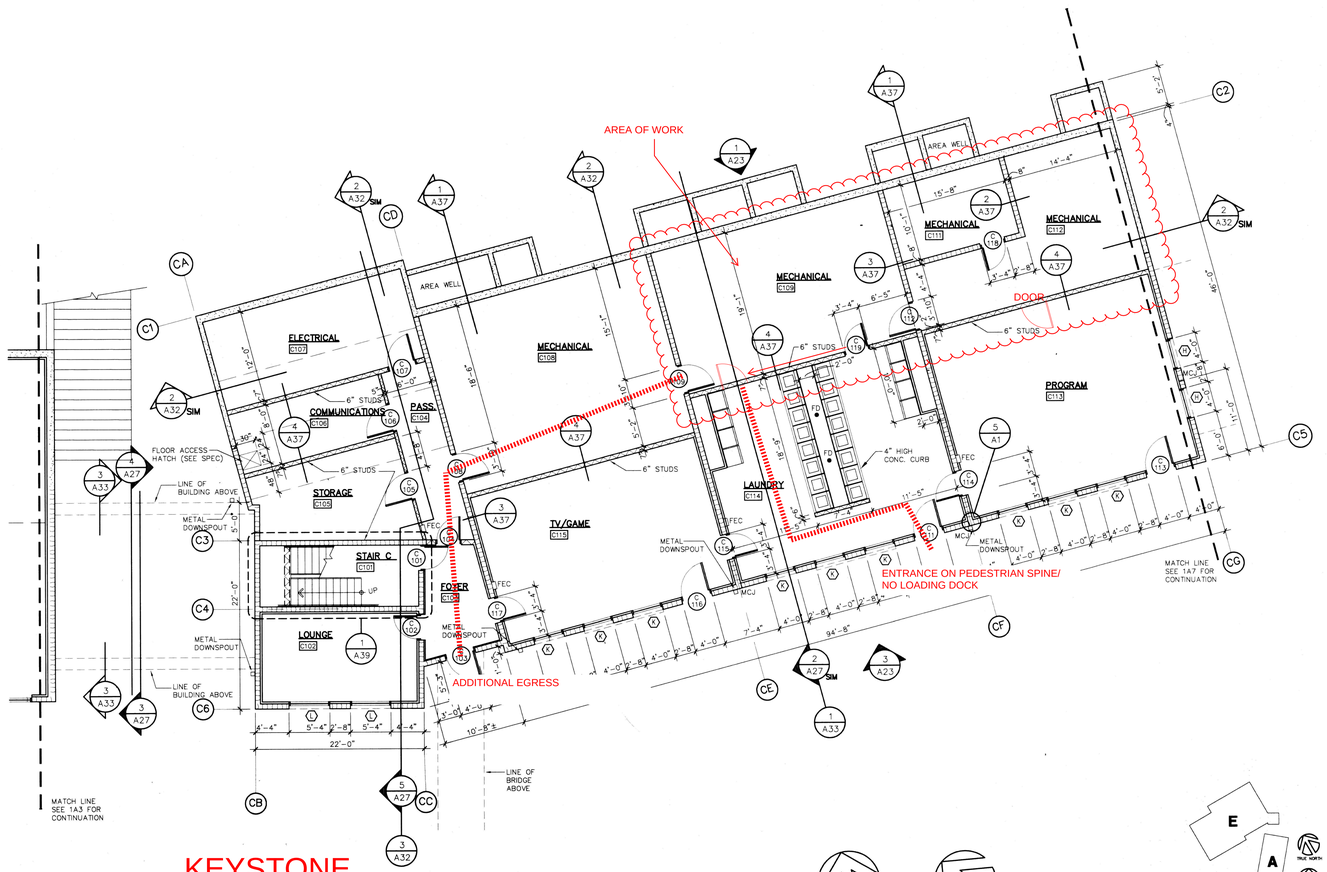
GENERAL PLAN NOTES

- REFER TO SITE DEVELOPMENT (SD) DRAWINGS FOR ADDITIONAL PLAN NOTES AND DETAILS.
- IN ADDITION TO DIMENSIONS SHOWN, REFER TO ENLARGED PLANS AND STRUCTURAL DRAWINGS FOR FURTHER DIMENSIONS.
- ALL CONCRETE MASONRY UNITS TO BE 7 5/8" UNLESS OTHERWISE NOTED.
- ALL METAL STUDS TO BE 3-5/8" UNLESS OTHERWISE NOTED.
- REFER TO A37 FOR PARTITION TYPES.
- PROVIDE FIRE SAFING AND FIRE SEALANT AT TOP OF ALL WALLS TO STRUCTURE ABOVE AND AT ALL RATED WALL CONSTRUCTION.
- REFER TO CIVIL DRAWINGS FOR SITE GRADING, HORIZONTAL LAYOUT, SITE UTILITIES, AND CIVIL DETAILS.
- REFER TO MECHANICAL DRAWINGS FOR BUILDING UTILITIES.
- REFER TO LANDSCAPE AND SITE DEVELOPMENT DRAWINGS FOR SITE IMPROVEMENTS AND LANDSCAPING.
- REFER TO ELECTRICAL DRAWINGS FOR SITE ELECTRICAL ITEMS.

WALL CONSTRUCTION LEGEND

- W3 OR CONCRETE GRADE BEAM BELOW GRADE (W20)
- W1 EXTERIOR. SEE BUILDING/WALL SECTIONS ON A26 – A35.
- W9. SEE WALL SECTIONS ON A37.
- W11, W12, W14, W15, W16, W17, AND W21 WALL TO STRUCTURE ABOVE OR ABOVE CEILING, WITH 3" SOUND BATT INSULATION AS INDICATED ON REFLECTED CEILING PLANS. SEE WALL SECTIONS ON A37 FOR HEIGHT AND LOCATION OF WALL.
- W4 OR W7 EXTERIOR. SEE BUILDING/WALL SECTIONS ON A26–A35.
- OPERABLE WALL PARTITION.

NOTE: REFER TO ROOM FINISH SCHEDULE IN SPECIFICATION FOR FURTHER DEFINITION AND LOCATION OF ALL WALL TYPES.



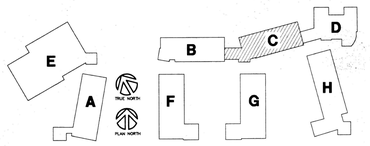
KEYSTONE

1 A5 BUILDING C – PLAZA LEVEL FLOOR PLAN
1/8" = 1'-0"
6493 SQ.FT.

PLAN NORTH

TRUE NORTH

AS BUILT DRAWING BACKGROUND FOR REFERENCE ONLY



BID PACKAGE NO. 4

UNIVERSITY OF COLORADO-COLORADO SPRINGS
CAMPUS HOUSING VILLAGE - PHASE I
COLORADO SPRINGS, COLORADO

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BUILDING C
PLAZA, 2ND FLOOR PLANS

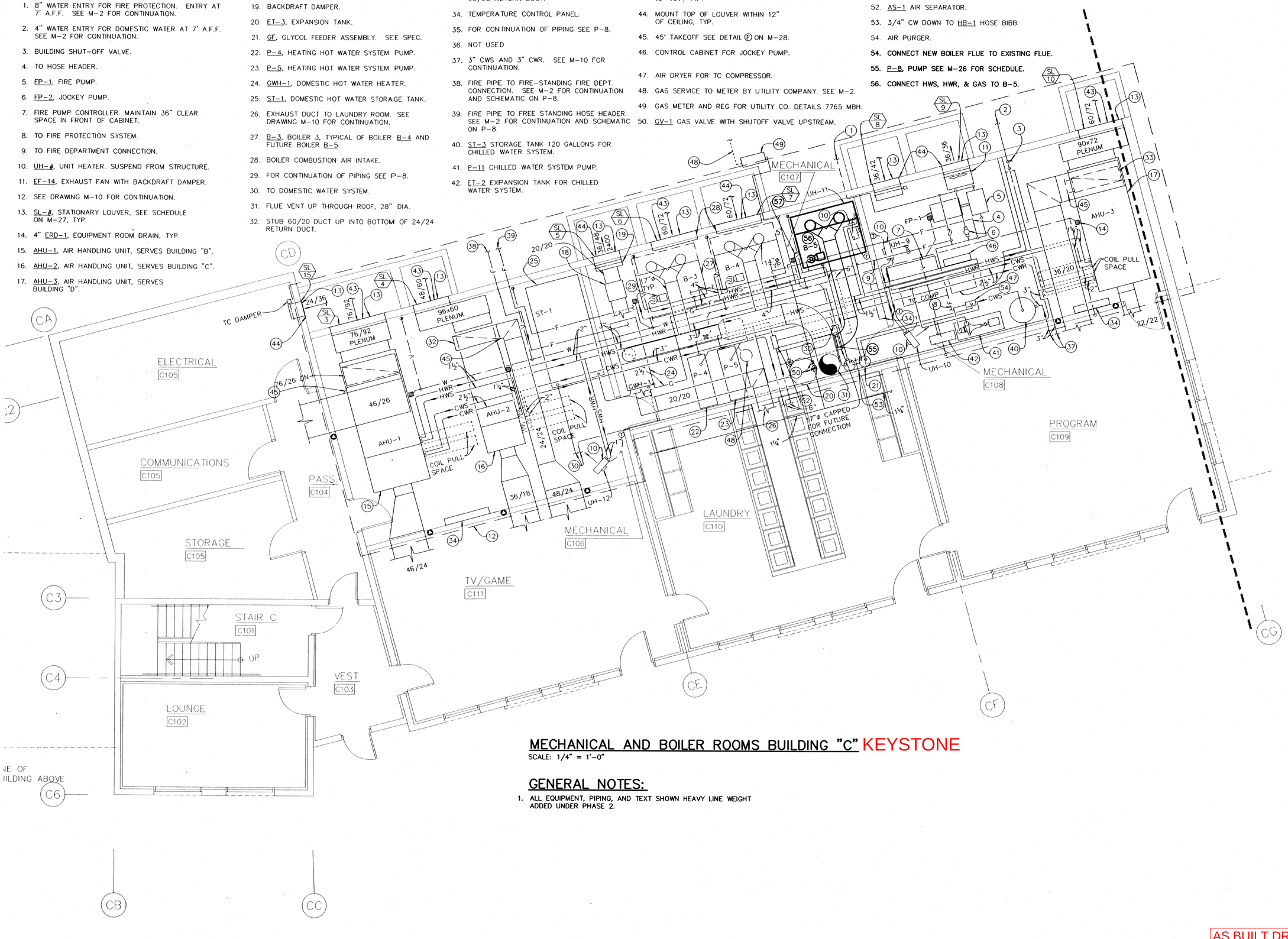
JOB NO.	9440004
DATE	8/21/95
SCALE	AS SHOWN
DRAWN	GOG/LJC/LG
CHECKED	GOG
SHEET	A5 OF 43

FILENAME: X:\UCCS\9440004\CD\A05.DWG

X:\UCCS\9440004\CD\A05 Fri Aug 18 10:12:04 1995

FLAG NOTES: ○

1. 8" WATER ENTRY FOR FIRE PROTECTION. ENTRY AT 7' A.F.F. SEE M-2 FOR CONTINUATION.
2. 4" WATER ENTRY FOR DOMESTIC WATER AT 7' A.F.F. SEE M-2 FOR CONTINUATION.
3. BUILDING SHUT-OFF VALVE.
4. TO HOSE HEADER.
5. FP-1, FIRE PUMP.
6. FP-2, JOCKEY PUMP.
7. FIRE PUMP CONTROLLER. MAINTAIN 36" CLEAR SPACE IN FRONT OF CABINET.
8. TO FIRE PROTECTION SYSTEM.
9. TO FIRE DEPARTMENT CONNECTION.
10. UH-#, UNIT HEATER. SUSPEND FROM STRUCTURE.
11. EF-14, EXHAUST FAN WITH BACKDRAFT DAMPER.
12. SEE DRAWING M-10 FOR CONTINUATION.
13. SL-#, STATIONARY LOUVER, SEE SCHEDULE ON M-27, TYP.
14. 4" ERD-1, EQUIPMENT ROOM DRAIN, TYP.
15. AHU-1, AIR HANDLING UNIT, SERVES BUILDING "B".
16. AHU-2, AIR HANDLING UNIT, SERVES BUILDING "C".
17. AHU-3, AIR HANDLING UNIT, SERVES BUILDING "D".
18. EF-15, EXHAUST FAN FOR LAUNDRY EXHAUST.
19. BACKDRAFT DAMPER.
20. ET-3, EXPANSION TANK.
21. GF, GLYCOL FEEDER ASSEMBLY. SEE SPEC.
22. P-4, HEATING HOT WATER SYSTEM PUMP.
23. P-5, HEATING HOT WATER SYSTEM PUMP.
24. GWH-1, DOMESTIC HOT WATER HEATER.
25. ST-1, DOMESTIC HOT WATER STORAGE TANK.
26. EXHAUST DUCT TO LAUNDRY ROOM. SEE DRAWING M-10 FOR CONTINUATION.
27. B-3, BOILER 3, TYPICAL OF BOILER B-4 AND FUTURE BOILER B-5.
28. BOILER COMBUSTION AIR INTAKE.
29. FOR CONTINUATION OF PIPING SEE P-8.
30. TO DOMESTIC WATER SYSTEM.
31. FLUE VENT UP THROUGH ROOF, 28" DIA.
32. STUB 60/20 DUCT UP INTO BOTTOM OF 24/24 RETURN DUCT.
33. STUB 64/20 DUCT UP INTO BOTTOM OF 26/20 RETURN DUCT.
34. TEMPERATURE CONTROL PANEL.
35. FOR CONTINUATION OF PIPING SEE P-8.
36. NOT USED
37. 3" CWS AND 3" CWR. SEE M-10 FOR CONTINUATION.
38. FIRE PIPE TO FIRE-STANDING FIRE DEPT. CONNECTION. SEE M-2 FOR CONTINUATION AND SCHEMATIC ON P-8.
39. FIRE PIPE TO FREE STANDING HOSE HEADER. SEE M-2 FOR CONTINUATION AND SCHEMATIC ON P-8.
40. ST-3 STORAGE TANK 120 GALLONS FOR CHILLED WATER SYSTEM.
41. P-11 CHILLED WATER SYSTEM PUMP.
42. ET-2 EXPANSION TANK FOR CHILLED WATER SYSTEM.
43. MOUNT BOTTOM OF LOUVER WITHIN 12" AFF, TYP.
44. MOUNT TOP OF LOUVER WITHIN 12" OF CEILING, TYP.
45. 45° TAKEOFF SEE DETAIL Ⓕ ON M-28.
46. CONTROL CABINET FOR JOCKEY PUMP.
47. AIR DRYER FOR TC COMPRESSOR.
48. GAS SERVICE TO METER BY UTILITY COMPANY. SEE M-2.
49. GAS METER AND REG FOR UTILITY CO. DETAILS 7765 MBH.
50. GV-1 GAS VALVE WITH SHUTOFF VALVE UPSTREAM.
51. CHEMICAL POT FEEDER.
52. AS-1 AIR SEPARATOR.
53. 3/4" CW DOWN TO HB-1 HOSE BIBB.
54. AIR PURGER.
54. **CONNECT NEW BOILER FLUE TO EXISTING FLUE.**
55. **P-8, PUMP SEE M-26 FOR SCHEDULE.**
56. **CONNECT HWS, HWR, & GAS TO B-5.**



MECHANICAL AND BOILER ROOMS BUILDING "C" KEYSTONE

SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. ALL EQUIPMENT, PIPING, AND TEXT SHOWN HEAVY LINE WEIGHT ADDED UNDER PHASE 2.

AS BUILT DRAWING BACKGROUND FOR REFERENCE ONLY

POST BID ADDENDUM NO. 3 TO BID PACKAGE NO. 6

UNIVERSITY OF COLORADO-COLORADO SPRINGS
CAMPUS HOUSING VILLAGE - PHASE II
COLORADO SPRINGS, COLORADO

MEP
McFall-Konkel & Kimball
Consulting Engineers Inc.
7350 EAST PROGRESS PLACE ENGLEWOOD, COLO 80111

CSNA Architects
532 NORTH TEJON STREET
COLORADO SPRINGS, COLORADO 80903
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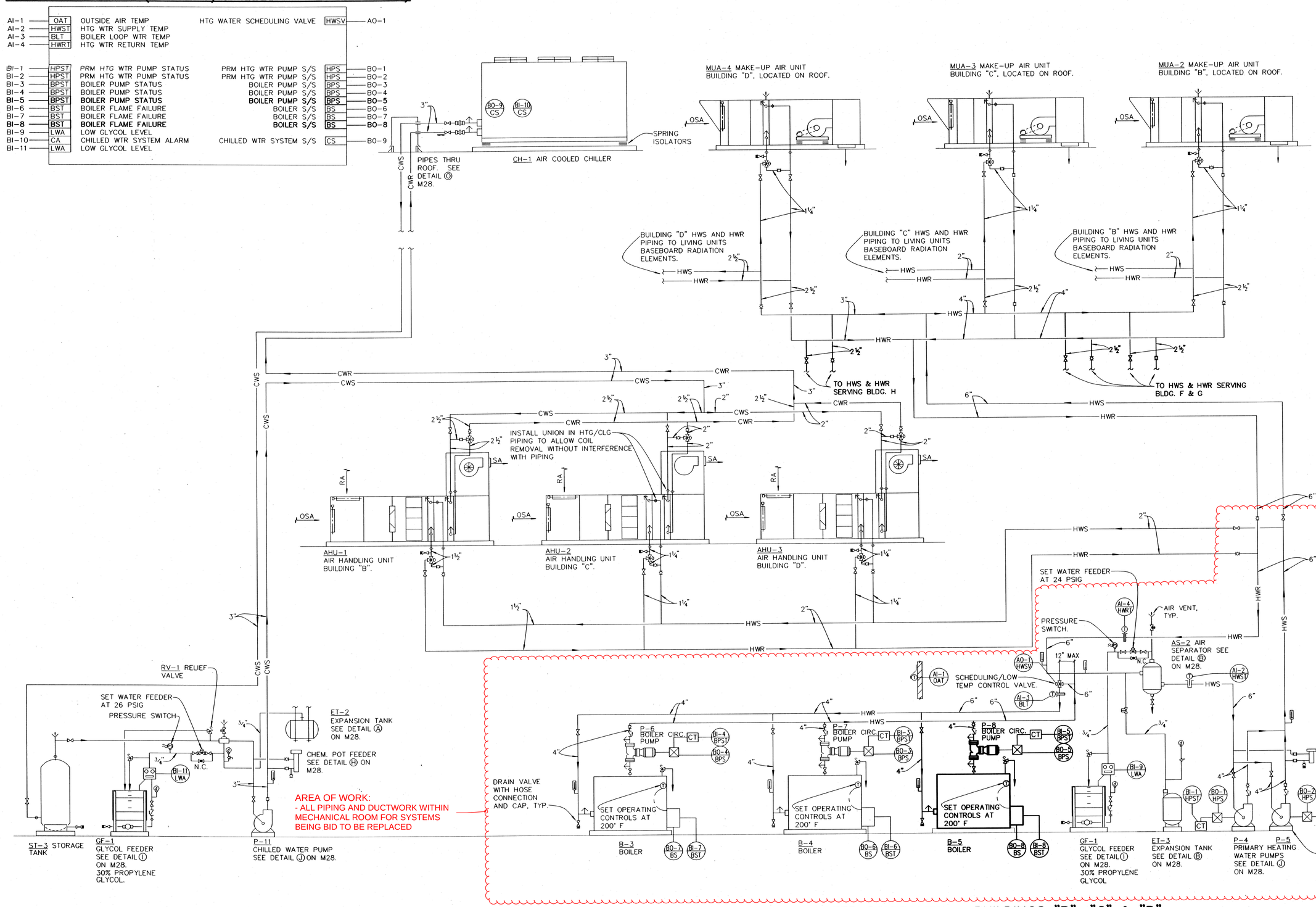
MECHANICAL ROOM FOR BUILDINGS "B", "C", & "D"

JOB NO.	8765
DATE	01-15-96
SCALE	1/4" = 1'-0"
DRAWN	BB/AEA
CHECKED	SDM
SHEET	M-20 OF

DDC CONTROLLER (HEATING/CHILLED WATER SYSTEMS)

AI-1	OAT	OUTSIDE AIR TEMP	HTG WATER SCHEDULING VALVE	HWSV	AO-1
AI-2	HWST	HTG WTR SUPPLY TEMP			
AI-3	BLT	BOILER LOOP WTR TEMP			
AI-4	HWRT	HTG WTR RETURN TEMP			
BI-1	HPST	PRM HTG WTR PUMP STATUS	PRM HTG WTR PUMP S/S	HPS	BO-1
BI-2	HPST	PRM HTG WTR PUMP STATUS	PRM HTG WTR PUMP S/S	HPS	BO-2
BI-3	BPST	BOILER PUMP STATUS	BOILER PUMP S/S	BPS	BO-3
BI-4	BPST	BOILER PUMP STATUS	BOILER PUMP S/S	BPS	BO-4
BI-5	**BPST**	**BOILER PUMP STATUS**	**BOILER PUMP S/S**	**BPS**	**BO-5**
BI-6	BST	BOILER FLAME FAILURE	BOILER S/S	BS	BO-6
BI-7	BST	BOILER FLAME FAILURE	BOILER S/S	BS	BO-7
BI-8	**BST**	**BOILER FLAME FAILURE**	**BOILER S/S**	**BS**	**BO-8**
BI-9	LWA	LOW GLYCOL LEVEL			
BI-10	CA	CHILLED WTR SYSTEM ALARM	CHILLED WTR SYSTEM S/S	CS	BO-9
BI-11	LWA	LOW GLYCOL LEVEL			



CHILLED WATER SCHEMATIC – BUILDING "B", "C" & "D"
NO SCALE

HEATING WATER SCHEMATIC – BUILDINGS "B", "C" & "D"
NO SCALE

GENERAL NOTES:

1. ALL EQUIPMENT, PIPING, AND TEXT SHOWN HEAVY LINE WEIGHT ADDED UNDER PHASE 2.

AS BUILT DRAWING BACKGROUND FOR REFERENCE ONLY

POST BID ADDENDUM NO. 3 TO BID PACKAGE NO. 6

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BLDG "B", "C", "D", "F", "G", "H" HEATING WATER SCHEMATIC	
JOB NO.	8765
DATE	01-15-96
SCALE	NO SCALE:
DRAWN	AEA
CHECKED	SDM
SHEET	M-23
OF	

AIR COOLED CHILLER SCHEDULE

ITEM	DWG. NO.	TYPE	CAP. TONS	MCA	EVAPORATOR				COMPRESSOR						CONDENSER FAN				COND. TEMP. °F	% GLYCOL PROPYLENE	OP. WT. LBS.	MANUFACTURER & MODEL NO.	NOTES
					EWT °F	LWT °F	GPM	P.D. FEET	NO.	V–ø	STRTR	KW	RLA	LRA	NO.	HP	V–ø	STRTR					
CH–1	M–17	SCROLL	50	97	55	45	115	17.5	4	460–3	INTEGRAL	55.7	15.5/24.2	95/142	6	1	460–3	INTEGRAL	95	30	5800	TRANE CGAE–C50	BUILDINGS "B", "C", & "D"
CH–2	M–21	SCROLL	60	119	55	45	130	18.15	4	460–3	INTEGRAL	73.1	25.4	142	6	1	460–3	INTEGRAL	95	30	6700	TRANE CGAE–C60	BUILDING E

AIR HANDLING UNIT / RETURN FAN SCHEDULE

ITEM	DWG. NO.	SERVICE	SUPPLY AIR FAN DATA								CHILLED WATER COIL									HEATING HOT WATER COIL									OP. WT. LBS.	MANUFACTURER & MODEL NO.	NOTES
			CFM	MIN. OSA CFM	FAN TYPE	E.S.P. IN. W.C. @ ALT.	T.S.P. IN. W.C. @ ALT.	MOTOR DATA HP	V–ø	STRTR	SENS. CAP. MBH	E.A.T. °F DB	E.A.T. °F WB	L.A.T. °F DB	L.A.T. °F WB	GPM	E.W.T. °F	L.W.T. °F	% GLY (PROP)	MAX. Δ P AIR IN. W.C.	MAX. Δ P WATER FT. W.C.	HEATING CFM	CAP. MBH	E.A.T. °F DB	L.A.T. °F DB	HEATING WATER GPM	HEATING WATER E.W.T. °F	HEATING WATER L.W.T. °F	MAX. Δ P % GLY (PROP)	MAX. Δ P AIR IN. W.C.	MAX. Δ P WATER FT. W.C.			
AHU–1	M–20	BLDG. "B"	11,140	2040	FC	1.51	3.18	15	460–3	MAG–HOA	232.6	78	62	55	54	55	45°	55°	30%	0.35	8.11	2800	84	20	55	13	200	170	30	0.15	0.68	2766	TRANE MCC SIZE 21	
AHU–2	M–20	BLDG. "C"	4980	2500	FC	1.34	2.92	5	460–3	MAG–HOA	111	83	62	55	54	25	45°	55°	30%	0.33	4.03	4980	82	38	55	10	200	170	30	0.11	0.51	1664	TRANE MCC SIZE 10	
AHU–3	M–20	BLDG. "D"	6920	765	FC	1.55	2.67	7–1/2	460–3	MAG–HOA	138	77	62	55	54	35	45°	55°	30%	0.30	4.82	1780	23	40	55	10	200	170	30	0.06	0.46	2314	TRANE MCC SIZE 14	
AHU–4	M–21	DINING RM	10,000	5000	FC	1.50	2.58	10	460–3	MAG–HOA	208	83	62	60	54	45	45°	55°	30%	0.20	5.99	5000	378	–1	87	30	200	170	30	0.10	0.86	2832	TRANE MCC SIZE 21	
AHU–5	M–21	BANQUET	9,500	3200 *	FC	2.26	3.62	7–1/2	460–3	MAG–HOA	176	80	62	60	55	40	45°	55°	30%	0.17	4.37	3500	236	0	75	16	200	170	30	0.11	0.53	2698	TRANE MCC SIZE 21	*3200/1600 CFM HI/LO MIN OA FROM CO_2 SENSOR
AHU–6	M–21	SERVERY	7200	7200	FC	1.00	2.32	5	460–3	MAG–HOA	201	91	62	60	51	45	45°	55°	30%	0.42	4.98	7200	548	–1	82	40	200	170	30	0.13	2.01	2207	TRANE MCC SIZE 14	2 SPEED MOTOR

MAKE–UP AIR UNIT SCHEDULE (HOT WATER)

ITEM	DWG. NO.	SERVICE	CFM	SUPPLY AIR FAN DATA							HOT WATER COIL							OP. WT. LBS.	MANUFACTURER & MODEL NO.	NOTES
				FAN TYPE	E.S.P. IN. W.C. @ ALT.	T.S.P. IN. W.C. @ ALT.	RPM MAX.	MOTOR DATA HP	V–ø	STRTR	CAP. MBH	E.A.T. °F DB	L.A.T. °F DB	HEATING WATER GPM	HEATING WATER E.W.T. °F	HEATING WATER L.W.T. °F	MAX. Δ P AIR IN. W.C.	MAX. Δ P WATER FT. W.C.			
MUA–1	M–5	BLDG "A"	3000	FC	.375	1.48	1120	2	460–3	MAG–HOA	144.2	2	58	10	200	170	.06	.22	3500	TRANE PCC–07	
MUA–2	M–9	BLDG "B"	3600	FC	.375	1.68	1250	3	460–3	MAG–HOA	173	2	58	12	200	170	.10	.29	3500	TRANE PCC–07	
MUA–3	M–13	BLDG "C"	3600	FC	.375	1.68	1250	3	460–3	MAG–HOA	173	2	58	12	200	170	.10	.29	3500	TRANE PCC–07	
MUA–4	M–17	BLDG "D"	2400	FC	.375	1.23	1000	1.5	460–3	MAG–HOA	115.3	2	58	X	200	170	.04	.16	3500	TRANE PCC–07	
MUA–6	**M–29**	**BLDG "F"**	**3300**	**FC**	**0.5**	**1.1**	**980**	**3**	**460–3**	**MAG–HOA**	**158**	**2**	**58**	**11**	**200**	**170**	**.04**	**.16**	**3500**	**TRANE PCC–07**	
MUA–7	**M–32**	**BLDG "G"**	**3300**	**FC**	**0.5**	**1.1**	**980**	**3**	**460–3**	**MAG–HOA**	**158**	**2**	**58**	**11**	**200**	**170**	**.04**	**.16**	**3500**	**TRANE PCC–07**	
MUA–8	**M–35**	**BLDG "H"**	**3900**	**FC**	**0.5**	**1.2**	**1132**	**3**	**460–3**	**MAG–HOA**	**187**	**2**	**58**	**13**	**200**	**170**	**.04**	**.16**	**3500**	**TRANE PCC–07**	

MAKE–UP AIR UNIT SCHEDULE (DIRECT GAS FIRED)

ITEM	DWG. NO.	SERVICE	CFM	SUPPLY AIR FAN DATA					HEATING CAPACITY – GAS			EVAPORATIVE COOLING SECTION								OP. WT. LBS.	MANUFACTURER	NOTES
				FAN TYPE	T.S.P. IN. W.C. @ ALT.	MOTOR DATA HP	V–ø	STRTR	INPUT MBH @ S.L.	OUTPUT MBH @ S.L.	TEMP. RISE °F	CONDITIONS EDB	CONDITIONS EWB °F	CONDITIONS LDB °F	EVAP. EFF.%	MAX. FACE VELOCITY FPM	PUMP HP	PUMP V–ø	MEDIA DEPTH IN.	AIR Δ P IN. W.C.			
MUA–5	M–21	KITCHEN	10350	FC	2.2	7–1/2	460–3	INTEGRAL	718	460	74	91	62	63	90	600	1/4	115–1	12"	0.25	2800	ENGINEERED AIR HE 131Q	DIRECT GAS FIRED HEATING.

ROOFTOP HVAC UNIT SCHEDULE (GAS FIRED HTG./ DX CLG.)

ITEM	DWG. NO.	SERVICE	SUPPLY AIR FAN DATA					SUPPLY FAN MOTOR DATA			MIN. CIRCUIT AMPACITY	HEATING CAPACITY			COOLING CAPACITY				OP. WT. LBS.	MANUFACTURER & MODEL NO.	NOTES
			CFM	MIN. OSA CFM	FAN TYPE	ESP IN. W.C. @ ALT.	RPM	HP	V–ø	STRTR		FUEL TYPE	INPUT MBH @S.L.	OUTPUT MBH @ALT.	MBH	EAT °F DB/WB	LAT °F DB	COND. TEMP.°F			
RTU–1	M–21	RETAIL & OFFICE	850	180	FC	.37	1725	1/2	208–1	INT.	15.7	NAT	50	32	18.8	91/62	58	105	500	TRANE YCCO24F	

BOILER SCHEDULE (HOT WATER)

ITEM	DWG. NO.	SERVICE	TYPE	CAPACITY INPUT MBH @ S.L.	CAPACITY OUTPUT MBH @ ALT.	EWT °F	LWT °F	GPM	FUEL TYPE	OP. WT. LBS.	MANUFACTURER & MODEL NO.	NOTES
B–1	M–21	A, & E	CAST IRON	1690	1085	174	200	95	NG	5150	WEIL McLAIN LGB–14	30% PROP GLYCOL
B–2	M–21	A, & E	CAST IRON	1690	1085	174	200	95	NG	5150	WEIL McLAIN LGB–14	30% PROP GLYCOL
B–3	M–20	B, C, & D	CAST IRON	1820	1164	177	200	116	NG	5500	WEIL McLAIN LGB–15	30% PROP GLYCOL
B–4	M–20	B, C, & D	CAST IRON	1820	1164	177	200	116	NG	5500	WEIL McLAIN LGB–15	30% PROP GLYCOL
B–5	**M–20**	**B, C, & D**	**CAST IRON**	**1820**	**1164**	**177**	**200**	**116**	**NG**	**5500**	**WEIL McLAIN LGB–15**	**30% PROP GLYCOL**

EXPANSION TANK SCHEDULE (DIAPHRAGM TYPE)

ITEM	DWG. NO.	SERVICE	VOLUME TANK	VOLUME ACCEP–TANCE	% GLYCOL PROPYLENE	FILL PRESS PSI	OP. WT. LBS	MANUFACTURER & MODEL NO.	NOTES
ET–1	M–21	B–1,2	119	119	30%	26	1300	AMTROL 500L	BLDGS "A" & "E"
ET–2	M–20	CH–1	10.5	4.65	30%	26	150	AMTROL AX40	BLDGS "B", "C", & "D"
ET–3	M–20	B–3,4,5	342	167	30%	24	4100	AMTROL 1400L	BLDGS "B", "C", & "D"
ET–4	M–21	CH–2	2.18	.63	30%	15	120	AMTROL AX15	BLDGS "A" & "E"

PUMP SCHEDULE

ITEM	DWG. NO.	TYPE	SERVICE	GPM	% GLY. PROP.	TOTAL HEAD FT. W.C.	NPSH FT. W.C.	MOTOR DATA HP	RPM	V–ø	STRTR	OP. WT LBS.	MANUFACTURER & MODEL NO.	NOTES	CON–TROLS
P–1	M–21	BASE MTD.	CHILLED	130	30%	50	3.18	5	1750	460–3	MAG–HOA	350	B&G SERIES 1510 2–1/2AB	SERVES BLDGS A & E	***
P–2	M–21	BASE MTD.	PRIM. HTG. WTR.	95	30%	50	4.2	3	1750	460–3	MAG–HOA	205	B&G SERIES 1510 1–1/2BC	SERVES BLDGS A & E	***
P–3	M–21	BASE MTD.	PRIM. HTG. WTR.	95	30%	50	4.2	3	1750	460–3	MAG–HOA	205	B&G SERIES 1510 1–1/2BC	SERVES BLDGS A & E	***
P–4	M–20	BASE MTD.	PRIM. HTG. WTR.	210	30%	60	5	5	1750	460–3	MAG–HOA	350	B&G SERIES 1510 2BC	SERVES BLDGS B, C, & D	***
P–5	M–20	BASE MTD.	PRIM. HTG. WTR.	210	30%	60	5	5	1750	460–3	MAG–HOA	350	B&G SERIES 1510 2BC	SERVES BLDGS B, C, & D	***
P–6	M–20	IN–LINE	B RECIRC	116	30%	20	3.9	1	1750	460–3	MAG–HOA	300	B&G SERIES 80 3x3x7B	SERVES BLDGS B, C, & D	***
P–7	M–20	IN–LINE	B RECIRC	116	30%	20	3.9	1	1750	460–3	MAG–HOA	300	B&G SERIES 80 3x3x7B	SERVES BLDGS B, C, & D	***
P–8	**M–20**	**IN–LINE**	**B RECIRC**	**116**	**30%**	**20**	**3.9**	**1**	**1750**	**460–3**	**MAG–HOA**	**300**	**B&G SERIES 80 3x3x7B**	**SERVES BLDGS B, C, & D**	***
P–9	M–21	IN–LINE	B RECIRC	95	30%	20	3.7	1	1750	460–3	MAG–HOA	205	B&G SERIES 80 2½x2½x7	SERVES BLDGS A & E	***
P–10	M–21	IN–LINE	B RECIRC	95	30%	20	3.7	1	1750	460–3	MAG–HOA	205	B&G SERIES 80 2½x2½x7	SERVES BLDGS A & E	***
P–11	M–20	BASE MTD	CHILLED	115	30%	65	4.5	5	1750	460–3	MAG–HOA	205	B&G SERIES 1510 1–1/2BC	SERVES BLDGS B, C, & D	***
RP–1	M–21	IN–LINE	DOM. WATER 110°	5.5	0%	8	–	1\12	1750	115–1	–		B&G SERIES 100	SERVES BLDGS A & E	***
RP–2	M–21	IN–LINE	DOM. WATER 140°	5.0	0%	4.0	–	1\12	1750	115–1	–		B&G SERIES 100	SERVES BLDGS A & E	***
RP–3	M–20	IN–LINE	DOM. WATER	9.5	0%	6	–	1\12	1750	115–1	–		B&G SERIES 100	SERVES BLDGS B, C, & D	***
RP–4	M–20	IN–LINE	DOM. WATER	3.5	0%	5	–	1\12	1750	115–1	–		B&G SERIES 100	SERVES BLDG H	***
RP–5	M–20	IN–LINE	DOM. WATER	3.0	0%	3.0	–	1\12	1750	115–1	–		B&G SERIES 100	SERVES BLDG G	***
RP–6	M–20	IN–LINE	DOM. WATER	4.0	0%	8	–	1\12	1750	115–1	–		B&G SERIES 100	SERVES BLDG F	***
FP–1	M–20	BASE MTD	FIRE PUMP	1000	0%	47 PSI	–	75	1750	460–3	*		–	**	***
FP–2	M–20	IN–LINE	JOCKEY FP	15	0%	52 PSI	–	3	1750	460–3	*		–	**	***

* STARTER INTEGRAL WITH PUMP CONTROLLER
** CONTRACTOR RESPONSIBLE FOR ACTUAL PUMP SELECTION, HP LISTED ARE MAX. ALLOWED.
*** SEE SECTION 15900

WATER HEATER SCHEDULE (GAS FIRED)

ITEM	DWG. NO.	TANK GAL.	CAPACITY MBH INPUT @ S.L.	RECOVERY GPH	TEMP. RISE °F	CIRCULATING PUMP HP	CIRCULATING PUMP GPM	CIRCULATING PUMP VOLT–ø	CIRCULATING PUMP FT. HEAD	WEIGHT	MANUFACTURER & MODEL NO.	NOTES
GWH–1/ST–1	M–20	700	2065	2035	100	1/2	90	115–1	15	1376/9531	LOCHINVAR CWN 2065	BLDB B,C & D
GWH–2	M–21	700	2065	2035	100	1/2	90	115–1	15	10907	LOCHINVAR PTN–2065–700–T–H–J	BLDG A & E

EXHAUST FAN SCHEDULE

ITEM	DWG. NO.	TYPE	AREA SERVED	CFM	T.S.P. IN. W.C.	DRIVE TYPE	SONES	MOTOR DATA HP	RPM	V–ø	STRTR	OP. WT. LBS.	MANUFACTURER & MODEL NO.	NOTES
EF–1	M–6	IN–LINE (CLG)	"B" PLAZA LVL	950	0.5	BELT	4.7	1/4	875	115–1	–	60	GREENHECK CSP–160A	*
EF–2	M–5	UPBLAST	BLDG. "A"	3,000	0.5	BELT	13.1	3/4	973	460–3	MAG–H0A	100	GREENHECK CUBE–180	* RUNS CONTINUOUSLY
EF–3	M–9	DOME	BLDG. "B"	3,600	0.5	BELT	14.0	3/4	1055	460–3	MAG–H0A	100	GREENHECK GB–180	* RUNS CONTINUOUSLY
EF–4	M–13	DOME	BLDG. "C"	3,600	0.5	BELT	14.0	3/4	1055	460–3	MAG–H0A	100	GREENHECK GB–180	* RUNS CONTINUOUSLY
EF–5	M–17	DOME	BLDG. "D"	2,400	0.5	BELT	12.5	1/2	1028	115–1	–	90	GREENHECK GB–160	* RUNS CONTINUOUSLY
EF–6	M–19	DOME	TOILETS "E"	1020	0.375	BELT	8.7	1/4	1490	115–1	–	50	GREENHECK GB–100	*
EF–7	M–21	UPBLAST	SERVERY HOOD	1500	1.5	BELT	12.3	3/4	1440	460–3	MAG–H0A	70	GREENHECK CUBE 160HP	*
EF–8	M–19	UPBLAST	SERVERY HOODS	7000	2.25	BELT	26	5	1010	460–3	MAG–H0A	230	GREENHECK CUBE 300HP	*
EF–9	M–19	UPBLAST	KITCHEN HOOD	5400	2	BELT	22	3	1200	460–3	MAG–H0A	150	GREENHECK CUBE 240HP	*
EF–10	M–21	UPBLAST	KITCHEN HOOD	4000	1.5	BELT	17.4	2	1015	460–3	MAG–H0A	150	GREENHECK CUBE 220HP	*
EF–11	M–21	UPBLAST	KITCHEN HOOD	3000	2	BELT	19.75	2	1545	460–3	MAG–H0A	100	GREENHECK CUBE 180HP	*
EF–12	M–21	DOME	TOILETS (KIT)	850	.625	BELT	8.2	1/4	1535	115–1	–	50	GREENHECK GB 100	*
EF–13	M–19	UPBLAST	PANTRY W/ BACKDRAFT DAMPER	900	.375	BELT	7.1	1/4	1045	115–1	–	60	GREENHECK CUBE 120	* LINE VOLTAGE WALL SWITCH
EF–14	M–20	WALL PROP	FIRE PUMP	2500	.5	BELT		3/4	2155	460–3	MAG–H0A	110	GREENHECK TAB–18M	*
EF–15	M–20	IN–LINE (CLG)	LAUNDRY	2400	.625	BELT	18	1	1605	460–3	MAG–H0A	150	GREENHECK BSQ–140X	*
EF–16	M–10	IN–LINE (CLG)	ELEC–C107	1065	.5	BELT	12.8	818W	1610	115–1	–	70	GREENHECK SP 165	* INTEGRAL GRILLE–8.6 AMPS
EF–17	M–19	UPBLAST	DISH HOOD W/ BACKDRAFT DAMPER	750	.625	BELT	11.1	1/4	1295	115–1	–	60	GREENHECK CUBE 140HP	LINE VOLT WALL SWITCH
CF–18	M–13	DRAFT FAN	BLDG. "C" FLUE	–	–	–	–	350W	1600	115–1	–	90	EXHAUSTO	TYP. 2 FANS MOUNTED TOGETHER PACKAGED CONTROL
EF–19	**M–31**	**UPBLAST**	**BUILDING F**	**3300**	**.625**	**BELT**	**11.4**	**3/4**	**860**	**460–3**	**MAG–H0A**		**GREENHECK CUBE 200**	
EF–20	**M–34**	**UPBLAST**	**BUILDING G**	**3300**	**.625**	**BELT**	**11.**	**3/4**	**860**	**460–3**	**MAG–H0A**		**GREENHECK CUBE 200**	
EF–21	**M–37**	**UPBLAST**	**BUILDING H**	**3900**	**.625**	**BELT**	**13.1**	**1**	**930**	**460–3**	**MAG–H0A**		**GREENHECK CUBE 200**	

* SEE SECTION 15900

HOOD SCHEDULE

ITEM	DWG. NO.	SERVICE	CFM	S.P. LOSS IN.	THROAT SIZE IN.	HOOD SIZE IN.	MANUFACTURER & MODEL NO.	NOTES
RH–1	M–19	RELIEF	4250	.05	24 X 48	42 X 77	PENN AIRETTE	BUILDING E BANQUET
H–1	M–21	COMB AIR	–	.05	30 X 48	50 X 80	PENN AIRETTE	–

GENERAL NOTES:

1. HEAVY LINE WEIGHT INDICATES NEW EQUIPMENT IN PHASE II
2. LIGHT LINE WEIGHT INDICATES EQUIPMENT SPECIFIED IN PHASE I

UNIVERSITY OF COLORADO-COLORADO SPRINGS
CAMPUS HOUSING VILLAGE - PHASE II
COLORADO SPRINGS, COLORADO

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SCHEDULES

JOB NO. 8765
DATE 01–15–96
SCALE NO SCALE
DRAWN AEA
CHECKED SDM
SHEET M–26 OF

AS BUILT DRAWING BACKGROUND FOR REFERENCE ONLY

VAV CONTROL BOX SCHEDULE

ITEM	DWG. NO.	TYPE	COOLING AIR QUANTITY		HEATING COIL									MANUFACTURER & MODEL NO.	NOTES
			MAX. CFM	MIN. CFM	E.A.T. °F	L.A.T. °F	BTUH	GPM	PIPE SIZE	ΔP FT.	E.W.T. °F	L.W.T. °F	INLET SIZE		
B1	M-6	SHUT OFF	600	150	55	95	5400	.54	¾"	0.1	200	180	8	TRANE VCWD SIZE 11	
B2	M-6	SHUT OFF	275	100	55	94	3501	.35	¾"	0.5	200	180	6	TRANE VCWD SIZE 06	
B3	M-6	SHUT OFF	1000	250	55	95	9000	.9	¾"	0.8	200	180	10	TRANE VCWD SIZE 17	
B4	M-6	SHUT OFF	1800	500	55	95	18000	1.8	¾"	0.5	200	180	14	TRANE VCWD SIZE 32	
B5	M-6	SHUT OFF	450	150	55	95	5400	.54	¾"	0.1	200	180	8	TRANE VCWD SIZE 11	
B6	M-6	SHUT OFF	400	100	55	95	3600	.36	¾"	0.5	200	180	6	TRANE VCWD SIZE 06	
B7	M-6	SHUT OFF	450	150	55	95	5400	.54	¾"	0.1	200	180	8	TRANE VCWD SIZE 11	
B8	M-6	SHUT OFF	1000	250	55	95	9000	.9	¾"	0.8	200	180	10	TRANE VCWD SIZE 17	
B9	M-6	SHUT OFF	1000	250	55	105	11135	1.1	¾"	0.8	200	180	10	TRANE VCWD SIZE 17	
B10	M-6	SHUT OFF	1000	250	55	95	9000	.9	¾"	0.8	200	180	10	TRANE VCWD SIZE 17	
B11	M-6	SHUT OFF	1000	250	55	95	9000	.9	¾"	0.8	200	180	10	TRANE VCWD SIZE 17	
C11	M-10	SHUT OFF	600	150	55	95	5400	.54	¾"	0.1	200	180	8	TRANE VCWD SIZE 11	
D12	M-14	SHUT OFF	300	100	55	95	3600	.36	¾"	0.5	200	180	6	TRANE VCWD SIZE 06	
D13	M-14	SHUT OFF	300	100	55	95	3600	.36	¾"	0.5	200	180	6	TRANE VCWD SIZE 06	
D14	M-14	SHUT OFF	1000	250	55	105	11120	1.1	¾"	0.8	200	180	10	TRANE VCWD SIZE 17	
D15	M-14	SHUT OFF	500	160	55	105	2200	.72	¾"	0.5	200	180	6	TRANE VCWD SIZE 06	
D16	M-14	SHUT OFF	400	160	55	105	7200	.72	¾"	0.5	200	180	6	TRANE VCWD SIZE 06	
D17	M-14	SHUT OFF	750	200	55	95	7200	.72	¾"	0.1	200	180	8	TRANE VCWD SIZE 11	
D18	M-14	SHUT OFF	1000	250	55	98	9565	.95	¾"	0.8	200	180	10	TRANE VCWD SIZE 17	
D19	M-14	SHUT OFF	825	200	55	93	6750	.7	¾"	0.8	200	180	10	TRANE VCWD SIZE 17	
E20	M-19	SHUT OFF	2000	750	55	75	12870	1.3	¾"	0.5	200	180	14	TRANE VCWD SIZE 32	
E21	M-19	SHUT OFF	2000	750	55	75	12870	1.3	¾"	0.5	200	180	14	TRANE VCWD SIZE 32	
E22	M-19	SHUT OFF	2300	750	55	75	12870	1.3	¾"	0.5	200	180	14	TRANE VCWD SIZE 32	
E23	M-19	SHUT OFF	2000	600	55	75	10296	1	¾"	0.5	200	180	14	TRANE VCWD SIZE 32	
E24	M-19	SHUT OFF	1500	140	55	75	4804	.5	¾"	0.3	200	180	12	TRANE VCWD SIZE 24	
E25	M-19	SHUT OFF	900	270	55	75	4633	.5	¾"	0.8	200	180	10	TRANE VCWD SIZE 17	
E26	M-19	SHUT OFF	700	170	55	75	3400	.35	¾"	0.1	200	180	8	TRANE VCWD SIZE 11	

HOT WATER COIL SCHEDULE

ITEM	DWG. NO.	CFM	MAX. FACE VELOCITY FPM	CAP. MBH	E.A.T. (°F) DB	L.A.T. (°F) DB	HEATING WATER			MAX. Δ P		OP. WT. LBS.	COILS #-SIZE (LxH)	MANUFACTURER & MODEL NO.	NOTES
							GPM	E.W.T. (°F)	L.W.T. (°F)	AIR (IN W.C.)	WATER (FT. W.C.)				
HC-1	M-10	1200	900	43.2	55	91	4.6	200	180	.02	.11	85	24x12	TRANE TYPE WC	
HC-2	M-10	2400	900	86.4	55	90	9.5	200	180	.02	.15	130	28x18	TRANE TYPE WC	
HC-3	M-10	1400	900	50.4	55	96	6.6	200	180	.02	.52	85	24x12	TRANE TYPE WC	
HC-4	M-18	1500	900	51.5	55	95	6.8	200	180	.02	.53	85	24x12	TRANE TYPE WC	

WALL FIN RADIATION SCHEDULE

ITEM	DWG. NO.	BTUH/LF (CATALOG)	BTUH/LF (DERATED)*	EWT °F	LWT °F	HEATING ELEMENT			RUNOUT SIZES		FIN SIZE IN.	MANUFACTURER & MODEL NO.	NOTES
						TUBE SIZE	FINS PER FT.	ROWS	HWS IN.	HWR IN.			
BBR-1	VARIES	850	600	200	180	¾"	50	1	¾"	¾"	3¼"	STERLING LB2	*BTUH DERATED FOR VELOCITY, GLYCOL, ALTITUDE.
BBR-2	M-19	850	600	200	180	¾"	50	1	¾"	¾"	3¼"	STERLING LB2	
BBR-3	M-19	990	700	200	180	¾"	40	1	¾"	¾"	4¼x3⅜	STERLING VERSA LINE STYLE SS	
BBR-4	M-19	850	600	200	180	¾"	50	1	¾"	¾"	3¼"	STERLING LB2	

CABINET/UNIT HEATER SCHEDULE (HOT WATER)

ITEM	DWG. NO.	SERVICE	TYPE	CFM	WATER					AIR		MOTOR DATA			RUNOUT SIZES		MANUFACTURER & MODEL NO.		NOTES
					EWT °F	LWT °F	GPM	GLY. %	PD FEET	EAT °F	LAT °F	HP (or AMPS)	V-ø	RPM	HWS	HWR			
UH-1																			NOT USED
UH-2																			NOT USED
UH-3	M-21	MECH E212	HOR.	2400	200	170	5.9	30%	1.20	60	94	1/4	115-1	1140	1"	1"	KINGSTON	134ER-18	
UH-4	M-19	RC'V E215	HOR.	2400	200	170	5.9	30%	1.20	60	94	1/4	115-1	1140	1"	1"	KINGSTON	134ER-18	
UH-5	M-15	LOAD D	HOR.	1450	200	170	3.8	30%	0.38	60	96	1/8	115-1	1550	3/4"	3/4"	KINGSTON	88ER-14	
UH-6	M-15	RC'V D	HOR.	1450	200	170	3.8	30%	0.38	60	96	1/8	115-1	1550	3/4"	3/4"	KINGSTON	88ER-14	
UH-7	M-18	STORAGE	HOR.	1450	200	170	3.8	30%	0.38	60	96	1/8	115-1	1550	3/4"	3/4"	KINGSTON	88ER-14	
UH-8	M-21	MECH E222	HOR.	1450	200	170	3.8	30%	0.38	60	96	1/8	115-1	1550	3/4"	3/4"	KINGSTON	88ER-14	
UH-9	M-20	FP ROOM	HOR.	2400	200	170	5.9	30%	1.20	60	94	1/4	115-1	1140	1"	1"	KINGSTON	134ER-18	
UH-10	M-20	MECH C108	HOR.	2400	200	170	5.9	30%	1.20	60	94	1/4	115-1	1140	1"	1"	KINGSTON	134ER-18	
UH-11	M-20	MECH C107	HOR.	2400	200	170	5.9	30%	1.20	60	94	1/4	115-1	1140	1"	1"	KINGSTON	134ER-18	
UH-12	M-20	MECH C106	HOR.	2400	200	170	5.9	30%	1.20	60	94	1/4	115-1	1140	1"	1"	KINGSTON	134ER-18	
CUH-1	M-3	FOYER AP	WALL		200	170	1	30%	0.22			0.55A	115-1	2800	3/4"	3/4"	KINGSTON	TRW-14	INTEGRAL T'STAT
CUH-2	M-4	FOYER A2	WALL		200	170	1	30%	0.22			0.55A	115-1	2800	3/4"	3/4"	KINGSTON	TRW-14	INTEGRAL T'STAT
CUH-3	M-5	FOYER A3	WALL		200	170	1	30%	0.22			0.55A	115-1	2800	3/4"	3/4"	KINGSTON	TRW-14	INTEGRAL T'STAT
CUH-4	M-6	FOYER B103	WALL		200	170	1	30%	0.22			0.55A	115-1	2800	3/4"	3/4"	KINGSTON	TRW-14	INTEGRAL T'STAT
CUH-5	M-7	VEST. B209	WALL		200	170	1	30%	0.22			0.55A	115-1	2800	3/4"	3/4"	KINGSTON	TRW-14	INTEGRAL T'STAT
CUH-6	M-10	VEST. C103	WALL		200	170	1	30%	0.22			0.55A	115-1	2800	3/4"	3/4"	KINGSTON	TRW-14	INTEGRAL T'STAT
CUH-7	M-14	VEST. D103	WALL		200	170	1	30%	0.22			0.55A	115-1	2800	3/4"	3/4"	KINGSTON	TRW-14	INTEGRAL T'STAT
CUH-8	M-18	VEST. KIT	WALL		200	170	1	30%	0.22			0.55A	115-1	2800	3/4"	3/4"	KINGSTON	TRW-14	INTEGRAL T'STAT
CUH-9	M-18	FOYER KIT	WALL		200	170	1	30%	0.22			0.55A	115-1	2800	3/4"	3/4"	KINGSTON	TRW-14	INTEGRAL T'STAT
CUH-10	M-7	CORR B203	WALL		200	170	1	30%	0.22			0.55A	115-1	2800	3/4"	3/4"	KINGSTON	TRW-14	INTEGRAL T'STAT
CUH-11	M-8	CORR B303	WALL		200	170	1	30%	0.22			0.55A	115-1	2800	3/4"	3/4"	KINGSTON	TRW-14	INTEGRAL T'STAT
CUH-12	M-9	CORR B403	WALL		200	170	1	30%	0.22			0.55A	115-1	2800	3/4"	3/4"	KINGSTON	TRW-14	INTEGRAL T'STAT
CUH-13	M-13	CORR C403	WALL		200	170	1	30%	0.22			0.55A	115-1	2800	3/4"	3/4"	KINGSTON	TRW-14	INTEGRAL T'STAT
CUH-14	M-11	CORR C203	WALL		200	170	1	30%	0.22			0.55A	115-1	2800	3/4"	3/4"	KINGSTON	TRW-14	INTEGRAL T'STAT
CUH-15	M-12	CORR C303	WALL		200	170	1	30%	0.22			0.55A	115-1	2800	3/4"	3/4"	KINGSTON	TRW-14	INTEGRAL T'STAT
CUH-16	M-19	MNTR E201	CLG	200	200	170	1	30%	3.9			0.55A	115-1	–	3/4"	3/4"	TRANE	FFCB020	INTEGRAL T'STAT
CUH-17	M-15	FOYER D203	WALL		200	170	1	30%	0.22			0.55A	115-1	2800	3/4"	3/4"	KINGSTON	TRW-14	INTEGRAL T'STAT
CUH-18	M-16	FOYER D303	WALL		200	170	1	30%	0.22			0.55A	115-1	2800	3/4"	3/4"	KINGSTON	TRW-14	INTEGRAL T'STAT
CUH-19	M-17	FOYER D403	WALL		200	170	1	30%	0.22			0.55A	115-1	2800	3/4"	3/4"	KINGSTON	TRW-14	INTEGRAL T'STAT
CUH-20	M-3	STAIRS A101	WALL		200	170	1	30%	0.22			0.55A	115-1	2800	3/4"	3/4"	KINGSTON	TRW-14	INTEGRAL T'STAT
CUH-21	M-6	STAIRS B101	WALL		200	170	1	30%	0.22			0.55A	115-1	2800	3/4"	3/4"	KINGSTON	TRW-14	INTEGRAL T'STAT
CUH-22	M-16	STAIRS C101	WALL		200	170	1	30%	0.22			0.55A	115-1	2800	3/4"	3/4"	KINGSTON	TRW-14	INTEGRAL T'STAT
CUH-23	M-14	DINING E109	WALL		200	170	1	30%	0.22			0.55A	115-1	2800	3/4"	3/4"	KINGSTON	TRW-14	INTEGRAL T'STAT
CUH-24	M-18	STAIRS 101	CONC	375	200	170	1	30%	1.1			1.6A	115-1	1070	3/4"	3/4"	TRANE	FFCB040	REMOTE T-STAT
CUH-25		**STAIRS F101**	**SURF.**		**200**	**170**	**1**	**30%**	**0.22**			**0.55A**	**115-1**	**2800**	**3/4"**	**3/4"**	**KINGSTON**	**TRW-14**	**INTEGRAL T'STAT**
CUH-26		**VEST. F108**	**WALL**		**200**	**170**	**1**	**30%**	**0.22**			**0.55A**	**115-1**	**2800**	**3/4"**	**3/4"**	**KINGSTON**	**TRW-14**	**INTEGRAL T'STAT**
CUH-27		**VEST. F208**	**WALL**		**200**	**170**	**1**	**30%**	**0.22**			**0.55A**	**115-1**	**2800**	**3/4"**	**3/4"**	**KINGSTON**	**TRW-14**	**INTEGRAL T'STAT**
CUH-28		**VEST. F308**	**WALL**		**200**	**170**	**1**	**30%**	**0.22**			**0.55A**	**115-1**	**2800**	**3/4"**	**3/4"**	**KINGSTON**	**TRW-14**	**INTEGRAL T'STAT**
CUH-29		**STAIRS G101**	**SURF.**		**200**	**170**	**1**	**30%**	**0.22**			**0.55A**	**115-1**	**2800**	**3/4"**	**3/4"**	**KINGSTON**	**TRW-14**	**INTEGRAL T'STAT**
CUH-30		**VEST. G108**	**WALL**		**200**	**170**	**1**	**30%**	**0.22**			**0.55A**	**115-1**	**2800**	**3/4"**	**3/4"**	**KINGSTON**	**TRW-14**	**INTEGRAL T'STAT**
CUH-31		**VEST. G208**	**WALL**		**200**	**170**	**1**	**30%**	**0.22**			**0.55A**	**115-1**	**2800**	**3/4"**	**3/4"**	**KINGSTON**	**TRW-14**	**INTEGRAL T'STAT**
CUH-32		**VEST. G308**	**WALL**		**200**	**170**	**1**	**30%**	**0.22**			**0.55A**	**115-1**	**2800**	**3/4"**	**3/4"**	**KINGSTON**	**TRW-14**	**INTEGRAL T'STAT**
CUH-33		**STAIRS H101**	**SURF.**		**200**	**170**	**1**	**30%**	**0.22**			**0.55A**	**115-1**	**2800**	**3/4"**	**3/4"**	**KINGSTON**	**TRW-14**	**INTEGRAL T'STAT**
CUH-34		**VEST. H108**	**WALL**		**200**	**170**	**1**	**30%**	**0.22**			**0.55A**	**115-1**	**2800**	**3/4"**	**3/4"**	**KINGSTON**	**TRW-14**	**INTEGRAL T'STAT**
CUH-35		**VEST. H208**	**WALL**		**200**	**170**	**1**	**30%**	**0.22**			**0.55A**	**115-1**	**2800**	**3/4"**	**3/4"**	**KINGSTON**	**TRW-14**	**INTEGRAL T'STAT**
CUH-36		**VEST. H308**	**WALL**		**200**	**170**	**1**	**30%**	**0.22**			**0.55A**	**115-1**	**2800**	**3/4"**	**3/4"**	**KINGSTON**	**TRW-14**	**INTEGRAL T'STAT**

STATIONARY LOUVER SCHEDULE

ITEM	DWG. NO.	SERVICE	CFM	S.P. LOSS IN.	VELOCITY FPM	MINIMUM FREE AREA SQ FT	LOUVER SIZE IN. W x IN. H	MANUFACTURER & MODEL NO.	NOTES
SL-1	M-6	EXHAUST	950	.06	525	1.6	24x36	AMERICAN WARMING LF-47	
SL-2	M-10	EXHAUST	1065	.08	525	2	36x24	AMERICAN WARMING LF-47	
SL-3	M-20	O.A. INTAKE	11140	.06	525	21	76x92	AMERICAN WARMING LF-47	
SL-4	M-20	O.A. INTAKE	5000	.06	525	9.5	48x60	AMERICAN WARMING LF-47	
SL-5	M-20	EXHAUST	2400	.06	525	6	36x48	AMERICAN WARMING LF-47	
SL-6	M-20	COMBUSTION AIR	8500	.08	600	13	60x72	AMERICAN WARMING LF-47	
SL-7	M-20	COMBUSTION AIR	8500	.08	600	13	60x72	AMERICAN WARMING LF-47	
SL-8	M-20	O.A. INTAKE	2500	.08	525	4.5	36x42	AMERICAN WARMING LF-47	
SL-9	M-20	EXHAUST	2500	.08	700	3.8	36x36	AMERICAN WARMING LF-47	
SL-10	M-20	O.A. INTAKE	6900	.06	525	13.1	60x72	AMERICAN WARMING LF-47	
SL-11									NOT USED
SL-12	M-21	COMBUSTION AIR	5680	.08	600	9.45 TOTAL	(4) 48x48	AMERICAN WARMING LF-47	
SL-13	M-21	O.A. INTAKE	15400	.08	600	25.7 TOTAL	(4) 48x48	AMERICAN WARMING LF-47	
SL-14	M-21	O.A. INTAKE	15400	.08	600	25.7 TOTAL	(4) 48x48	AMERICAN WARMING LF-47	
SL-15	M-20	O.A. INTAKE	1065	.08	600	1.8	24x36	AMERICAN WARMING LF-47	
SL-16	M-19	RELIEF	2500 EA.	.02	325	8.45 EA.	96x32	AMERICAN WARMING LF-47	
SL-17	M-17	ELEVATOR VENT	–	.02	–	3	48x24	AMERICAN WARMING LF-47	NEED TC DAMPER FOR LOUVER
SL-18									NOT USED
SL-19	M-14	RELIEF BLDG. "D"	5000	.02	300	17.07	72x72	AMERICAN WARMING LF-47	
SL-20	M-17	ELEVATOR VENT	–	.02	–	3	48x24	AMERICAN WARMING LF-47	NEED TC DAMPER FOR LOUVER

AS BUILT DRAWING BACKGROUND FOR REFERENCE ONLY

POST BID ADDENDUM NO. 3 TO BID PACKAGE NO. 6

UNIVERSITY OF COLORADO-COLORADO SPRINGS
CAMPUS HOUSING VILLAGE - PHASE II
COLORADO SPRINGS, COLORADO

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SCHEDULES

JOB NO.	8765
DATE	01-15-96
SCALE	NO SCALE:
DRAWN	AEA
CHECKED	SDM
SHEET	M-27 OF