

REVISION	SHEET #	MEP
	MEP-1	BUILDING 1 - FRONT AND LEFT ELEVATION
	MEP-1.1	BUILDING 1 - RIGHT AND REAR ELEVATION
	MEP-2	BUILDING 2 - FRONT AND LEFT ELEVATION
	MEP-2.1	BUILDING 2 - RIGHT AND REAR ELEVATION
	MEP-3	BUILDING 3 - FRONT AND LEFT ELEVATION
	MEP-3.1	BUILDING 3 - RIGHT AND REAR ELEVATION
	MEP-4	BUILDING 4 - FRONT AND LEFT ELEVATION
	MEP-4.1	BUILDING 4 - RIGHT AND REAR ELEVATION
	MEP-5	BUILDING 5 - FRONT AND LEFT ELEVATION
	MEP-5.1	BUILDING 5 - RIGHT AND REAR ELEVATION

SHEET #	MECHANICAL	
M-1	HVAC NOTES AND SYMBOLS	
REVISION 2 12-15-2014	M-2	HVAC SCHEDULES
	M-3	HVAC - UNITS A1, A2, A3
	M-4	HVAC - UNITS A4, A5
	M-5	HVAC - UNITS A6, A7, A8,
	M-6	HVAC - UNITS A9, A10
	M-7	HVAC - UNITS B1, B2
	M-8	HVAC - UNITS B3, B4
	M-9	HVAC - UNIT B5
	M-10	HVAC - UNIT B6, C1
	M-11	CLUBHOUSE
	M-12	MAINTENANCE
	M-13	MECHANICAL DETAILS
	M-14	MECHANICAL DETAILS
	M-15	DRYER VENT CALCULATIONS AND DETAILS
REVISION 2 12-15-2014	M-15.1	ELEVATOR SHAFT AIR HANDLERS - BUILDINGS # 1, 2, 3, 4 & 5
	M-16	CONDENSING UNITS BUILDING 1 - AREA "A" - SECTION 1
REVISION 2 12-15-2014	M-17	CONDENSING UNITS BUILDING 1 - AREA "A" - SECTION 2
	M-18	CONDENSING UNITS BUILDING 1 - AREA "B"
REVISION 2 12-15-2014	M-19	CONDENSING UNITS BUILDING 2
REVISION 2 12-15-2014	M-20	CONDENSING UNITS BUILDING 3
REVISION 2 12-15-2014	M-21	CONDENSING UNITS BUILDING 4 - AREA "A"
	M-22	CONDENSING UNITS BUILDING 4 - AREA "B"
REVISION 2 12-15-2014	M-23	CONDENSING UNITS BUILDING 5 - AREA "A"
	M-24	CONDENSING UNITS BUILDING 5 - AREA "B"
	M-25	TERRACE / RR

REVISION	SHEET #	ELECTRICAL
	E-1	NOTES AND SYMBOLS
REVISION 2 12-15-2014	E-2	SITE POWER
	E-3	SITE LIGHTING
	E-4	SITE PVC SLEEVES
	E-5	SITE PHOTOMETRICS
	E-6	UNITS A1, A1-A, A1-B, A2, A3, A3-A, A3-B, A3-HC
	E-7	UNITS A4, A4-A, A5, A5-A, A5-B, A5-C, A5-D, A5-E
	E-8	UNITS A6, A6-A, A6-B, A6-C, A7, A8, A8-A
	E-9	UNITS A9, A9-A, A10
	E-10	UNITS B1, B1-A, B1-HC, B2
	E-11	UNITS B3, B3-A, B4, B4-A
	E-12	UNITS B5, B5-A
	E-13	UNITS B6, B6-A, B6-B, C1, C1-HC
REVISION 2 12-15-2014	E-14	BUILDING 1 ELECTRIC - AREA "A" - SECTION 1 - FIRST FLOOR
	E-15	BUILDING 1 ELECTRIC - AREA "A" - SECTION 2 - FIRST FLOOR
	E-16	BUILDING 1 ELECTRIC - AREA "B" - FIRST FLOOR
REVISION 2 12-15-2014	E-17	BUILDING 1 ELECTRIC - AREA "A" - SECTION 1 - SECOND FLOOR
	E-18	BUILDING 1 ELECTRIC - AREA "A" - SECTION 2 - SECOND FLOOR
	E-19	BUILDING 1 ELECTRIC - AREA "B" - SECOND FLOOR
	E-20	BUILDING 1 ELECTRIC - AREA "A" - SECTION 1 - THIRD FLOOR
	E-21	BUILDING 1 ELECTRIC - AREA "A" - SECTION 2 - THIRD FLOOR
	E-22	BUILDING 1 ELECTRIC - AREA "B" - THIRD FLOOR
	E-23	BUILDING 1 ELECTRIC - AREA "A" - SECTION 1 - FOURTH FLOOR
	E-24	BUILDING 1 ELECTRIC - AREA "A" - SECTION 2 - FOURTH FLOOR
	E-25	BUILDING 1 ELECTRIC - AREA "B" - FOURTH FLOOR
REVISION 2 12-15-2014	E-26	BUILDING 2 ELECTRIC - FIRST AND SECOND FLOOR
	E-27	BUILDING 2 ELECTRIC - THIRD AND FOURTH FLOOR
REVISION 2 12-15-2014	E-28	BUILDING 3 ELECTRIC - FIRST FLOOR
REVISION 2 12-15-2014	E-29	BUILDING 3 ELECTRIC - SECOND FLOOR
REVISION 2 12-15-2014	E-30	BUILDING 3 ELECTRIC - THIRD FLOOR
REVISION 2 12-15-2014	E-31	BUILDING 3 ELECTRIC - FOURTH FLOOR
REVISION 2 12-15-2014	E-32	BUILDING 4 ELECTRIC - AREA "A" - FIRST FLOOR
REVISION 2 12-15-2014	E-33	BUILDING 4 ELECTRIC - AREA "B" - FIRST FLOOR
REVISION 2 12-15-2014	E-34	BUILDING 4 ELECTRIC - AREA "A" - SECOND FLOOR
REVISION 2 12-15-2014	E-35	BUILDING 4 ELECTRIC - AREA "B" - SECOND FLOOR
REVISION 2 12-15-2014	E-36	BUILDING 4 ELECTRIC - AREA "A" - THIRD FLOOR
	E-37	BUILDING 4 ELECTRIC - AREA "B" - THIRD FLOOR
REVISION 2 12-15-2014	E-38	BUILDING 4 ELECTRIC - AREA "A" - FOURTH FLOOR
	E-39	BUILDING 4 ELECTRIC - AREA "B" - FOURTH FLOOR
REVISION 2 12-15-2014	E-40	BUILDING 5 ELECTRIC - AREA "A" - FIRST FLOOR
REVISION 2 12-15-2014	E-41	BUILDING 5 ELECTRIC - AREA "B" - FIRST FLOOR
REVISION 2 12-15-2014	E-42	BUILDING 5 ELECTRIC - AREA "A" - SECOND FLOOR
REVISION 2 12-15-2014	E-43	BUILDING 5 ELECTRIC - AREA "B" - SECOND FLOOR
REVISION 2 12-15-2014	E-44	BUILDING 5 ELECTRIC - AREA "A" - THIRD FLOOR
	E-45	BUILDING 5 ELECTRIC - AREA "B" - THIRD FLOOR
REVISION 2 12-15-2014	E-46	BUILDING 5 ELECTRIC - AREA "A" - FOURTH FLOOR
	E-46.1	BUILDING 5 TERRACE - FOURTH FLOOR
	E-47	BUILDING 5 ELECTRIC - AREA "B" - FOURTH FLOOR

REVISION	SHEET #	ELECTRICAL
	E-48	CLUBHOUSE POWER - FIRST FLOOR
	E-49	CLUBHOUSE POWER - SECOND FLOOR
	E-50	CLUBHOUSE ELECTRIC PANEL, RISER, LIGHT FIXTURE SCHEDULE
	E-51	TRASH COMPACTOR & MAINTENANCE POWER AND RISER
	E-52	STAND ALONE GARAGES ELECTRIC
	E-52.1	STAND ALONE GARAGES ELECTRIC RISERS
	E-53	PARKING GARAGE POWER AND LIGHTING
	E-54	PARKING GARAGE PHOTOMETRICS AND LIGHT SCHEDULE
	E-55	UNIT ELECTRICAL CALCULATIONS - A1, A2, A3, A4, A5, A6
	E-56	UNIT ELECTRICAL CALCULATIONS - A7, A8, A9, A10, B1, B2
	E-57	UNIT ELECTRICAL CALCULATIONS - B3, B4, B5, B6, C1
REVISION 2 12-15-2014	E-58	BUILDING # 1 & # 2 ELECTRICAL CALCULATIONS
REVISION 2 12-15-2014	E-59	BUILDING # 3 & # 4 ELECTRICAL CALCULATIONS
REVISION 2 12-15-2014	E-60	BUILDING # 5 ELECTRICAL CALCULATIONS
REVISION 2 12-15-2014	E-61	BUILDING #1 METER PACKS , RISERS AND HOUSE PANELS
REVISION 2 12-15-2014	E-62	BUILDING #2 METER PACKS , RISERS AND HOUSE PANELS
REVISION 2 12-15-2014	E-62.1	BUILDING #3 METER PACKS , RISERS AND HOUSE PANELS
REVISION 2 12-15-2014	E-62.2	BUILDING #4 METER PACKS , RISERS AND HOUSE PANELS
REVISION 2 12-15-2014	E-62.3	BUILDING #5 METER PACKS , RISERS AND HOUSE PANELS
	E-63	ELECTRICAL DETAILS
	E-64	ELECTRICAL DETAILS
	E-65	CONDENSING UNITS BUILDING 1 - AREA "A" - SECTION 1
	E-66	CONDENSING UNITS BUILDING 1 - AREA "A" - SECTION 2
	E-67	CONDENSING UNITS BUILDING 1 - AREA "B"
	E-68	CONDENSING UNITS BUILDING 2
	E-69	CONDENSING UNITS BUILDING 3
	E-70	CONDENSING UNITS BUILDING 4 - AREA "A"
	E-71	CONDENSING UNITS BUILDING 4 - AREA "B"
	E-72	CONDENSING UNITS BUILDING 5 - AREA "A"
	E-73	CONDENSING UNITS BUILDING 5 - AREA "B"
	E-74	LIGHT FIXTURE SCHEDULE
	E-75	ELEVATOR ELECTRICAL REQUIREMENTS

DESIGN CODES	
2009	INTERNATIONAL ENERGY CONSERVATION CODE
2012	INTERNATIONAL PLUMBING CODE
2012	INTERNATIONAL MECHANICAL CODE
2011	NATIONAL ELECTRIC CODE



Firm registration number
E-15222
Automation Engineering

JRF ASSOCIATES

3620 Winding Way
Round Rock Texas 78664
512-970-9478 Ph

TEXAS

LANDMARK GRANDVIEW

SAN ANTONIO

OWNED BY JRF ASSOCIATES
ALL RIGHTS RESERVED
THE DESIGN SERVICES HEREIN ARE THE SOLE
PROPERTY OF JRF ASSOCIATES AND MAY NOT BE
REPRODUCED IN ANY FORM WITHOUT WRITTEN
PERMISSION. ALL DESIGNS ARE BASED ON THE
INFORMATION PROVIDED AND TO BE USED
ON LANDMARK SAN ANTONIO APARTMENTS

PROJECT NUMBER	1322013
SCALE	N/A
ISSUE DATE	CONSTRUCTION SET 10-08-2014

SHEET NUMBER

INDEX

REVISION	SHEET #	PLUMBING
	P-1	NOTES, SYMBOLS AND SCHEDULES
	P-2	UNITS A1, A1-A, A1-B, A2, A3, A3-A, A3-B, A3-HC
	P-3	UNITS A4, A4-A, A5, A5-A, A5-B, A5-C, A5-D, A5-E
	P-4	UNITS A6, A6-A, A6-B, A6-C, A7, A8, A8-A
	P-5	UNITS A9, A9-A, A10
	P-6	UNITS B1, B1-A, B1-HC, B2
	P-7	UNITS B3, B3-A, B4, B4-A
	P-8	UNITS B5, B5-A
	P-9	UNITS B6, B6-A, B6-B, C1, C1-HC
REVISION 2 12-15-2014	P-10	BUILDING 1 WATER - AREA "A" - SECTION 1 - FIRST FLOOR
	P-11	BUILDING 1 WATER - AREA "A" - SECTION 2 - FIRST FLOOR
REVISION 2 12-15-2014	P-12	BUILDING 1 WATER - AREA "B" - FIRST FLOOR
REVISION 2 12-15-2014	P-13	BUILDING 1 WATER - AREA "A" - SECTION 1 - SECOND FLOOR
	P-14	BUILDING 1 WATER - AREA "A" - SECTION 2 - SECOND FLOOR
	P-15	BUILDING 1 WATER - AREA "B" - SECOND FLOOR
	P-16	BUILDING 1 WATER - AREA "A" - SECTION 1 - THIRD FLOOR
	P-17	BUILDING 1 WATER - AREA "A" - SECTION 2 - THIRD FLOOR
	P-18	BUILDING 1 WATER - AREA "B" - THIRD FLOOR
	P-19	BUILDING 1 WATER - AREA "A" - SECTION 1 - FOURTH FLOOR
	P-20	BUILDING 1 WATER - AREA "A" - SECTION 2 - FOURTH FLOOR
	P-21	BUILDING 1 WATER - AREA "B" - FOURTH FLOOR
REVISION 2 12-15-2014	P-22	BUILDING 1 WASTEWATER - AREA "A" - SECTION 1 - FIRST FLOOR
	P-23	BUILDING 1 WASTEWATER - AREA "A" - SECTION 2 - FIRST FLOOR
	P-24	BUILDING 1 WASTEWATER - AREA "B" - FIRST FLOOR
REVISION 2 12-15-2014	P-25	BUILDING 1 WASTEWATER - AREA "A" - SECTION 1 - SECOND FLOOR
	P-26	BUILDING 1 WASTEWATER - AREA "A" - SECTION 2 - SECOND FLOOR
	P-27	BUILDING 1 WASTEWATER - AREA "B" - SECOND FLOOR
	P-28	BUILDING 1 WASTEWATER - AREA "A" - SECTION 1 - THIRD FLOOR
	P-29	BUILDING 1 WASTEWATER - AREA "A" - SECTION 2 - THIRD FLOOR
	P-30	BUILDING 1 WASTEWATER - AREA "B" - THIRD FLOOR
	P-31	BUILDING 1 WASTEWATER - AREA "A" - SECTION 1 - FOURTH FLOOR
	P-32	BUILDING 1 WASTEWATER - AREA "A" - SECTION 2 - FOURTH FLOOR
	P-33	BUILDING 1 WASTEWATER - AREA "B" - FOURTH FLOOR
REVISION 2 12-15-2014	P-34	BUILDING 2 WATER - FIRST FLOOR
REVISION 2 12-15-2014	P-35	BUILDING 2 WATER - SECOND FLOOR
	P-36	BUILDING 2 WATER - THIRD FLOOR
	P-37	BUILDING 2 WATER - FOURTH FLOOR
REVISION 2 12-15-2014	P-38	BUILDING 2 WASTEWATER - FIRST FLOOR
REVISION 2 12-15-2014	P-39	BUILDING 2 WASTEWATER - SECOND FLOOR
	P-40	BUILDING 2 WASTEWATER - THIRD FLOOR
	P-41	BUILDING 2 WASTEWATER - FOURTH FLOOR

DESIGN CODES

2009	INTERNATIONAL ENERGY CONSERVATION CODE
2012	INTERNATIONAL PLUMBING CODE
2012	INTERNATIONAL MECHANICAL CODE
2011	NATIONAL ELECTRIC CODE

REVISION	SHEET #	PLUMBING
REVISION 2 12-15-2014	P-42	BUILDING 3 WATER - FIRST FLOOR
REVISION 2 12-15-2014	P-43	BUILDING 3 WATER - SECOND FLOOR
REVISION 2 12-15-2014	P-44	BUILDING 3 WATER - THIRD FLOOR
REVISION 2 12-15-2014	P-45	BUILDING 3 WATER - FOURTH FLOOR
REVISION 2 12-15-2014	P-46	BUILDING 3 WASTEWATER - FIRST FLOOR
REVISION 2 12-15-2014	P-47	BUILDING 3 WASTEWATER - SECOND FLOOR
REVISION 2 12-15-2014	P-48	BUILDING 3 WASTEWATER - THIRD FLOOR
REVISION 2 12-15-2014	P-49	BUILDING 3 WASTEWATER - FOURTH FLOOR
REVISION 2 12-15-2014	P-50	BUILDING 4 WATER - AREA "A" - FIRST FLOOR
REVISION 2 12-15-2014	P-51	BUILDING 4 WATER - AREA "B" - FIRST FLOOR
REVISION 2 12-15-2014	P-52	BUILDING 4 WATER - AREA "A" - SECOND FLOOR
REVISION 2 12-15-2014	P-53	BUILDING 4 WATER - AREA "B" - SECOND FLOOR
REVISION 2 12-15-2014	P-54	BUILDING 4 WATER - AREA "A" - THIRD FLOOR
	P-55	BUILDING 4 WATER - AREA "B" - THIRD FLOOR
REVISION 2 12-15-2014	P-56	BUILDING 4 WATER - AREA "A" - FOURTH FLOOR
	P-57	BUILDING 4 WATER - AREA "B" - FOURTH FLOOR
REVISION 2 12-15-2014	P-58	BUILDING 4 WASTEWATER - AREA "A" - FIRST FLOOR
REVISION 2 12-15-2014	P-59	BUILDING 4 WASTEWATER - AREA "B" - FIRST FLOOR
REVISION 2 12-15-2014	P-60	BUILDING 4 WASTEWATER - AREA "A" - SECOND FLOOR
REVISION 2 12-15-2014	P-61	BUILDING 4 WASTEWATER - AREA "B" - SECOND FLOOR
REVISION 2 12-15-2014	P-62	BUILDING 4 WASTEWATER - AREA "A" - THIRD FLOOR
	P-63	BUILDING 4 WASTEWATER - AREA "B" - THIRD FLOOR
REVISION 2 12-15-2014	P-64	BUILDING 4 WASTEWATER - AREA "A" - FOURTH FLOOR
	P-65	BUILDING 4 WASTEWATER - AREA "B" - FOURTH FLOOR
REVISION 2 12-15-2014	P-66	BUILDING 5 WATER - AREA "A" - FIRST FLOOR
REVISION 2 12-15-2014	P-67	BUILDING 5 WATER - AREA "B" - FIRST FLOOR
REVISION 2 12-15-2014	P-68	BUILDING 5 WATER - AREA "A" - SECOND FLOOR
REVISION 2 12-15-2014	P-69	BUILDING 5 WATER - AREA "B" - SECOND FLOOR
REVISION 2 12-15-2014	P-70	BUILDING 5 WATER - AREA "A" - THIRD FLOOR
	P-71	BUILDING 5 WATER - AREA "B" - THIRD FLOOR
REVISION 2 12-15-2014	P-72	BUILDING 5 WATER - AREA "A" - FOURTH FLOOR
	P-73	BUILDING 5 WATER - AREA "B" - FOURTH FLOOR
REVISION 2 12-15-2014	P-74	BUILDING 5 WASTEWATER - AREA "A" - FIRST FLOOR
REVISION 2 12-15-2014	P-75	BUILDING 5 WASTEWATER - AREA "B" - FIRST FLOOR
REVISION 2 12-15-2014	P-76	BUILDING 5 WASTEWATER - AREA "A" - SECOND FLOOR
REVISION 2 12-15-2014	P-77	BUILDING 5 WASTEWATER - AREA "B" - SECOND FLOOR
REVISION 2 12-15-2014	P-78	BUILDING 5 WASTEWATER - AREA "A" - THIRD FLOOR
	P-79	BUILDING 5 WASTEWATER - AREA "B" - THIRD FLOOR
REVISION 2 12-15-2014	P-80	BUILDING 5 WASTEWATER - AREA "A" - FOURTH FLOOR
	P-81	BUILDING 5 WASTEWATER - AREA "B" - FOURTH FLOOR
	P-82	MAINTENANCE / TRASH COMPACTOR WATER / WASTEWATER
	P-83	BUILDING COLD WATER RISERS
	P-84	BUILDING COLD WATER RISERS
	P-85	BUILDING WASTEWATER RISERS
	P-86	BUILDING WASTEWATER RISERS
	P-87	BUILDING WASTEWATER RISERS
	P-88	BUILDING WASTEWATER RISERS
	P-89	DETAILS



Firm registration number
E-15222
Automation Engineering

JRF
ASSOCIATES

3620 Winding Way
Round Rock Texas 78664
512-970-9478 Ph

TEXAS

LANDMARK GRANDVIEW

SAN ANTONIO

© 2014 BY JRF ASSOCIATES
ALL RIGHTS RESERVED.
THE DESIGN SERVICES HEREIN ARE THE SOLE
PROPERTY OF JRF ASSOCIATES AND MAY NOT BE
REPRODUCED, COPIED, EITHER WHOLLY OR IN PART,
WITHOUT THE WRITTEN PERMISSION OF JRF ASSOCIATES.
PERMISSION ALL DESIGNS ARE BASED ON THE
INFORMATION PROVIDED TO US AND TO BE USED
ON LANDMARK SAN ANTONIO APARTMENTS

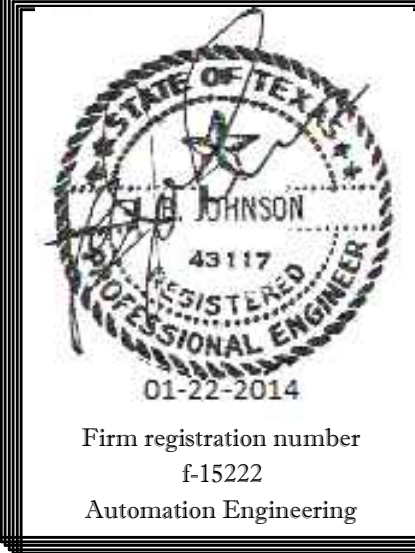
PROJECT NUMBER
1322013

SCALE
N/A

ISSUE DATE
CONSTRUCTION SET
10-08-2014

SHEET NUMBER

INDEX



JRF ASSOCIATES
 3620 Winding Way
 Round Rock Texas 78664
 512-970-9478 Ph

TEXAS

LANDMARK GRANDVIEW

SAN ANTONIO

APARTMENT TYPE A1, A2, A3, A4	
AIR HANDLER	
MFG. NAME	FIRST COMPANY
MODEL NO.	19HX-6
TONAGE	1.5
CFM	600
NOMINAL COOLING CAPACITY	18,000
ELEC. CHAR.	208 V. 1 PHASE
HEATING	6 KW
FIRST CO. CEILING PANEL	965-1
CONDENSING UNIT	
MFG. NAME	GOODMAN
MODEL NO.	65X1401B1
TONAGE	1.5
SEER	14.0
NOMINAL COOLING CAPACITY	18,000
CONDENSER FAN HP	1/8
ELEC. CHAR.	208V 1 PHASE
MIN. CIRCUIT AMPACITY	9.1
MAX. OVERCURRENT PROTECTION	15
REFRIGERANT	R-410A

APARTMENT TYPE - A5, A6, A7, A8	
AIR HANDLER	
MFG. NAME	FIRST COMPANY
MODEL NO.	19HX-8
TONAGE	1.5
CFM	600
NOMINAL COOLING CAPACITY	18,000
ELEC. CHAR.	208 V. 1 PHASE
HEATING	8 KW
FIRST CO. CEILING PANEL	965-1
CONDENSING UNIT	
MFG. NAME	GOODMAN
MODEL NO.	65X1401B1
TONAGE	1.5
SEER	14.0
NOMINAL COOLING CAPACITY	18,000
CONDENSER FAN HP	1/8
ELEC. CHAR.	208V 1 PHASE
MIN. CIRCUIT AMPACITY	9.1
MAX. OVERCURRENT PROTECTION	15
REFRIGERANT	R-410A

APARTMENT TYPE - A9	
AIR HANDLER	
MFG. NAME	FIRST COMPANY
MODEL NO.	25HX-10
TONAGE	2.0
CFM	800
NOMINAL COOLING CAPACITY	24,000
ELEC. CHAR.	208 V. 1 PHASE
HEATING	10 KW
FIRST CO. CEILING PANEL	965-1
CONDENSING UNIT	
MFG. NAME	GOODMAN
MODEL NO.	65X1401B1
TONAGE	1.5
SEER	14.0
NOMINAL COOLING CAPACITY	18,000
CONDENSER FAN HP	1/8
ELEC. CHAR.	208V 1 PHASE
MIN. CIRCUIT AMPACITY	9.1
MAX. OVERCURRENT PROTECTION	15
REFRIGERANT	R-410A

APARTMENT TYPE - A10, B1, B2	
AIR HANDLER	
MFG. NAME	FIRST COMPANY
MODEL NO.	25HX-10
TONAGE	2.0
CFM	800
NOMINAL COOLING CAPACITY	24,000
ELEC. CHAR.	208 V. 1 PHASE
HEATING	10 KW
FIRST CO. CEILING PANEL	965-1
CONDENSING UNIT	
MFG. NAME	GOODMAN
MODEL NO.	65X140241A
TONAGE	2.0
SEER	14.0
NOMINAL COOLING CAPACITY	24,000
CONDENSER FAN HP	1/8
ELEC. CHAR.	208V 1 PHASE
MIN. CIRCUIT AMPACITY	17.6
MAX. OVERCURRENT PROTECTION	30
REFRIGERANT	R-410A

APARTMENT TYPE - B3, B4, B5	
AIR HANDLER	
MFG. NAME	FIRST COMPANY
MODEL NO.	31HX-10
TONAGE	2.5
CFM	1000
NOMINAL COOLING CAPACITY	30,000
ELEC. CHAR.	208 V. 1 PHASE
HEATING	10 KW
FIRST CO. CEILING PANEL	965-1
CONDENSING UNIT	
MFG. NAME	GOODMAN
MODEL NO.	65X140241A
TONAGE	2.0
SEER	14.0
NOMINAL COOLING CAPACITY	24,000
CONDENSER FAN HP	1/8
ELEC. CHAR.	208V 1 PHASE
MIN. CIRCUIT AMPACITY	17.6
MAX. OVERCURRENT PROTECTION	30
REFRIGERANT	R-410A

APARTMENT TYPE - B6	
AIR HANDLER	
MFG. NAME	FIRST COMPANY
MODEL NO.	31HX-10
TONAGE	2.5
CFM	1000
NOMINAL COOLING CAPACITY	30,000
ELEC. CHAR.	208 V. 1 PHASE
HEATING	10 KW
FIRST CO. CEILING PANEL	965-1
CONDENSING UNIT	
MFG. NAME	GOODMAN
MODEL NO.	65X140301
TONAGE	2.5
SEER	14.0
NOMINAL COOLING CAPACITY	30,000
CONDENSER FAN HP	1/8
ELEC. CHAR.	208V 1 PHASE
MIN. CIRCUIT AMPACITY	16.7
MAX. OVERCURRENT PROTECTION	25
REFRIGERANT	R-410A

APARTMENT TYPE - C1, C1-A, C1-HC			
AIR HANDLER			
	AHU # 1	AHU # 2	
MFG. NAME	FIRST COMPANY	FIRST COMPANY	FIRST COMPANY
MODEL NO.	19HX-5	19HX-5	19HX-5
TONAGE	1.5	1.5	1.5
CFM	600	600	600
NOMINAL COOLING CAPACITY	18,000	18,000	18,000
ELEC. CHAR.	208 V. 1 PHASE	208 V. 1 PHASE	208 V. 1 PHASE
HEATING	5 KW	5 KW	5 KW
FIRST CO. CEILING PANEL	965-1	965-1	965-1
CONDENSING UNIT			
MFG. NAME	GOODMAN	GOODMAN	GOODMAN
MODEL NO.	65X1401B1	65X1401B1	65X1401B1
TONAGE	1.5	1.5	1.5
SEER	14.0	14.0	14.0
NOMINAL COOLING CAPACITY	18,000	18,000	18,000
CONDENSER FAN HP	1/8	1/8	1/8
ELEC. CHAR.	208V 1 PHASE	208V 1 PHASE	208V 1 PHASE
MIN. CIRCUIT AMPACITY	9.1	9.1	9.1
MAX. OVERCURRENT PROTECTION	15	15	15
REFRIGERANT	R-410A	R-410A	R-410A

ELEVATOR MINI SPLIT SYSTEM	
MFG. NAME	MITSUBISHI
MODEL NO.	SEZ-KD18NA
TONAGE	1.5
CFM	423 / 529 / 635
NOMINAL COOLING CAPACITY	14,000
ELEC. CHAR.	208 V. 1 PHASE
CONDENSING UNIT	
MFG. NAME	MITSUBISHI
MODEL NO.	SUZ-KA18NA
TONAGE	1.5
SEER	17.5
NOMINAL COOLING CAPACITY	14,000
HEATING BTU	4,800 - 24,900
ELEC. CHAR.	208V 1 PHASE
BREAKER SIZE	15A
REFRIGERANT	R-410A

MAINTENANCE	
INDOOR UNIT	
MFG. NAME	FRIEDRICH
MODEL NO.	MRI&CSF
TONAGE	1.5
NOMINAL COOLING CAPACITY	18,000
ELEC. CHAR.	208 V. 1 PHASE
OUTDOOR UNIT	
MFG. NAME	FRIEDRICH
MODEL NO. OUTDOOR UNIT	MRI&CSF
SEER	14.2
NOMINAL COOLING CAPACITY	18,000
ELEC. CHAR.	208 V. 1 PHASE
MIN. CIRCUIT AMPACITY	20
REFRIGERANT	R-410

CLUBHOUSE AIR HANDLER #1	
AIR HANDLER UPFLOW	
MFG. NAME	FIRST COMPANY
MODEL NO.	36HBX
TONAGE	3
CFM	1200
NOMINAL COOLING CAPACITY	36,000
ELEC. CHAR.	208 V. 1 PHASE
ELECTRIC HEATING	7.5 KW
CONDENSING UNIT	
MFG. NAME	GOODMAN
MODEL NO.	65X140361A
TONAGE	3
SEER	14.0
NOMINAL COOLING CAPACITY	36,000
CONDENSER FAN HP	1/8
ELEC. CHAR.	208V 1 PHASE
MIN. CIRCUIT AMPACITY	18.7
MAX. OVERCURRENT PROTECTION	30
REFRIGERANT	R-410A

CLUBHOUSE AIR HANDLER #2	
AIR HANDLER UPFLOW	
MFG. NAME	FIRST COMPANY
MODEL NO.	36HBX
TONAGE	2.5
CFM	1000
NOMINAL COOLING CAPACITY	30,000
ELEC. CHAR.	208 V. 1 PHASE
ELECTRIC HEATING	6 KW
CONDENSING UNIT	
MFG. NAME	GOODMAN
MODEL NO.	65X140361A
TONAGE	2.5
SEER	14.0
NOMINAL COOLING CAPACITY	30,000
CONDENSER FAN HP	1/8
ELEC. CHAR.	208V 1 PHASE
MIN. CIRCUIT AMPACITY	16.7
MAX. OVERCURRENT PROTECTION	25
REFRIGERANT	R-410A

CLUBHOUSE AIR HANDLER #3	
AIR HANDLER UPFLOW	
MFG. NAME	FIRST COMPANY
MODEL NO.	60HBX
TONAGE	5
CFM	2000
NOMINAL COOLING CAPACITY	60,000
ELEC. CHAR.	208 V. 1 PHASE
ELECTRIC HEATING	11.3 KW (2 CIRCUITS)
CONDENSING UNIT	
MFG. NAME	GOODMAN
MODEL NO.	65X140601
TONAGE	5
SEER	14.0
NOMINAL COOLING CAPACITY	60,000
CONDENSER FAN HP	1/4
ELEC. CHAR.	208V 1 PHASE
MIN. CIRCUIT AMPACITY	32.8
MAX. OVERCURRENT PROTECTION	50
REFRIGERANT	R-410A

CLUBHOUSE AIR HANDLER #4	
AIR HANDLER UPFLOW	
MFG. NAME	FIRST COMPANY
MODEL NO.	60HBX
TONAGE	5
CFM	2000
NOMINAL COOLING CAPACITY	60,000
ELEC. CHAR.	208 V. 1 PHASE
ELECTRIC HEATING	11.3 KW (2 CIRCUITS)
CONDENSING UNIT	
MFG. NAME	GOODMAN
MODEL NO.	65X140601
TONAGE	5
SEER	14.0
NOMINAL COOLING CAPACITY	60,000
CONDENSER FAN HP	1/4
ELEC. CHAR.	208V 1 PHASE
MIN. CIRCUIT AMPACITY	32.8
MAX. OVERCURRENT PROTECTION	50
REFRIGERANT	R-410A

CLUBHOUSE AIR HANDLER #5	
AIR HANDLER DOWNFLOW	
MFG. NAME	FIRST COMPANY
MODEL NO.	36HBX
TONAGE	3
CFM	1200
NOMINAL COOLING CAPACITY	36,000
ELEC. CHAR.	208 V. 1 PHASE
ELECTRIC HEATING	7.5 KW
CONDENSING UNIT	
MFG. NAME	GOODMAN
MODEL NO.	65X140361A
TONAGE	3
SEER	14.0
NOMINAL COOLING CAPACITY	36,000
CONDENSER FAN HP	1/8
ELEC. CHAR.	208V 1 PHASE
MIN. CIRCUIT AMPACITY	18.7
MAX. OVERCURRENT PROTECTION	30
REFRIGERANT	R-410A

APARTMENT THERMOSTAT
 PROGRAMABLE CAPABLE OF CONTROLLING THE HEATING AND COOLING SYSTEM ON A DAILY SCHEDULE TO MAINTAIN DIFFERENT TEMPERATURE SET POINTS AT DIFFERENT TIMES OF THE DAY. THIS THERMOSTAT SHALL MEET ALL REQUIREMENTS OF THE 2012 INTERNATIONAL ENERGY CONSERVATION CODE.

MAINTENANCE EXHAUST FAN SCHEDULE			
LOCATION	DESCRIPTION	CFM	REMARKS
RESTROOM	BROAN #S12M OR EQUAL	70	W/BACKDRAFT DAMPER
CART ROOM	BROAN #L300MS OR EQUAL	317	W/BACKDRAFT DAMPER

CLUBHOUSE WARMING OVEN DOWN DRAFT EXHAUST FAN			
LOCATION	DESCRIPTION	CFM	REMARKS
CLUBHOUSE WARMING OVEN	BROAN #RMDD4804 OR EQUAL	500	W/BACKDRAFT DAMPER

EXHAUST FAN SCHEDULE				
LOCATION	DESCRIPTION	CFM	ESP INCHES	REMARKS
APT-TOILETS	BROAN #670 OR EQUAL	50	0.1	W/BACKDRAFT DAMPER
CLUB MENS	BROAN #670 OR EQUAL	50	0.1	W/BACKDRAFT DAMPER
CLUB WOMENS	BROAN #670 OR EQUAL	50	0.1	W/BACKDRAFT DAMPER

© 2014 BY JRF ASSOCIATES. ALL RIGHTS RESERVED.
 THE DESIGN SHOWN HEREIN IS THE SOLE PROPERTY OF JRF ASSOCIATES AND MAY NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION. ALL DESIGNS ARE BASED ON THE INFORMATION FROM OTHERS AND TO BE USED ON LANDMARK SAN ANTONIO APARTMENTS.

12-15-2014
 ELEVATOR A/C

PROJECT NUMBER
 1322013

SCALE
 N/A

ISSUE DATE
 CONSTRUCTION SET
 10-08-2014

SHEET NUMBER
M2



Firm registration number
F-15222
Automation Engineering

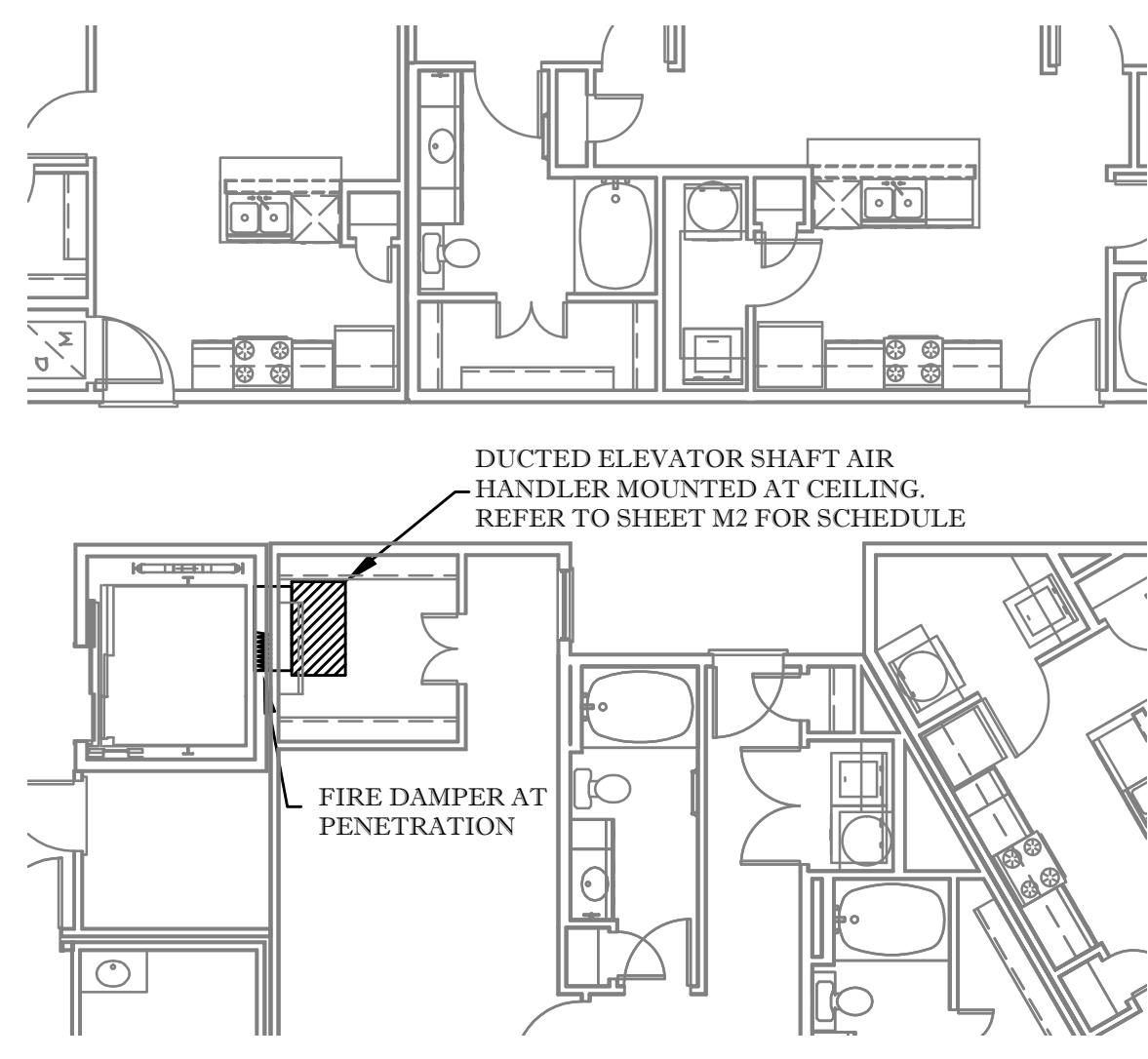
JRF ASSOCIATES

3620 Winding Way
Round Rock Texas 78664
512-970-9478 Ph

TEXAS

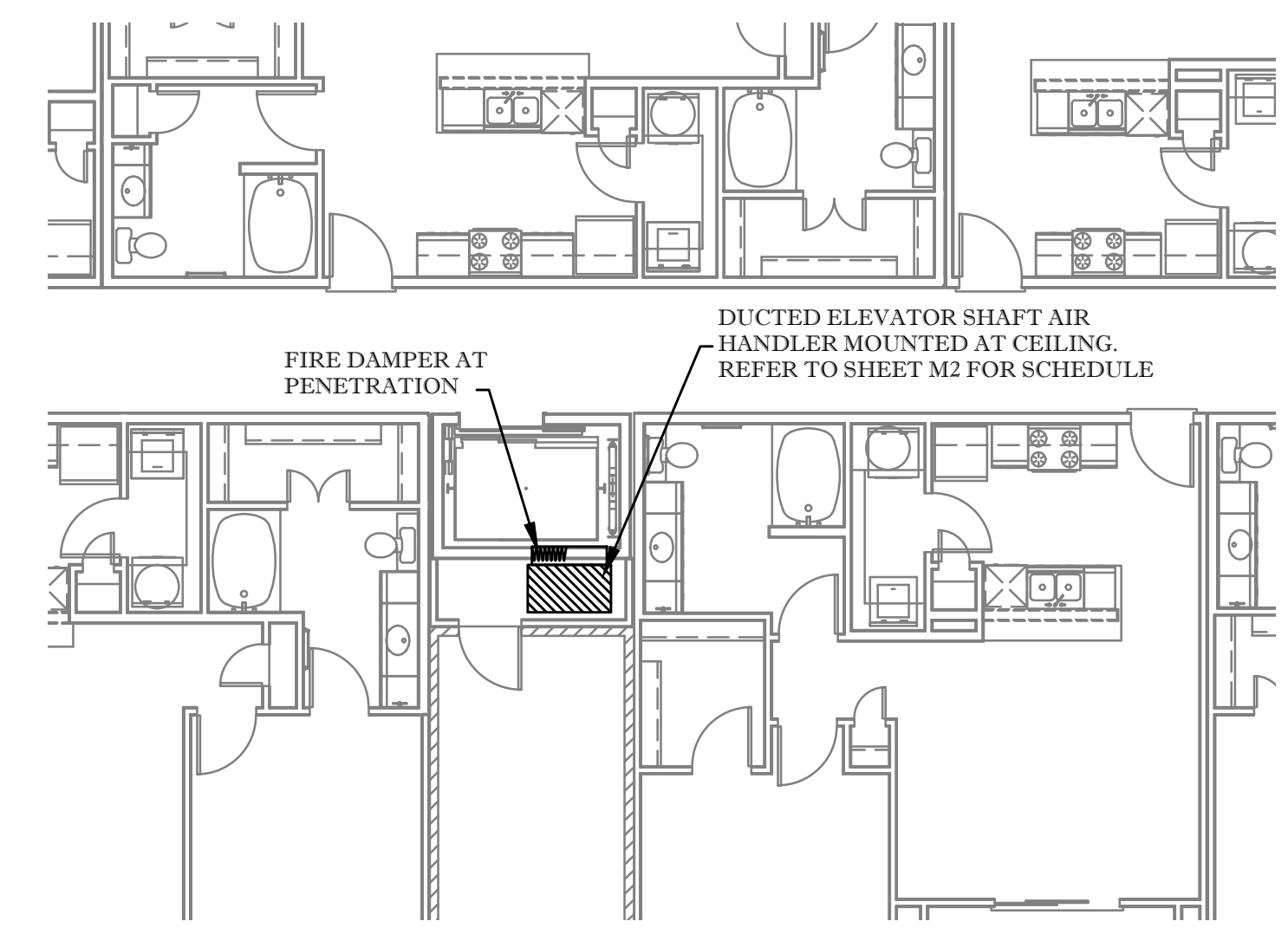
LANDMARK GRANDVIEW

SAN ANTONIO



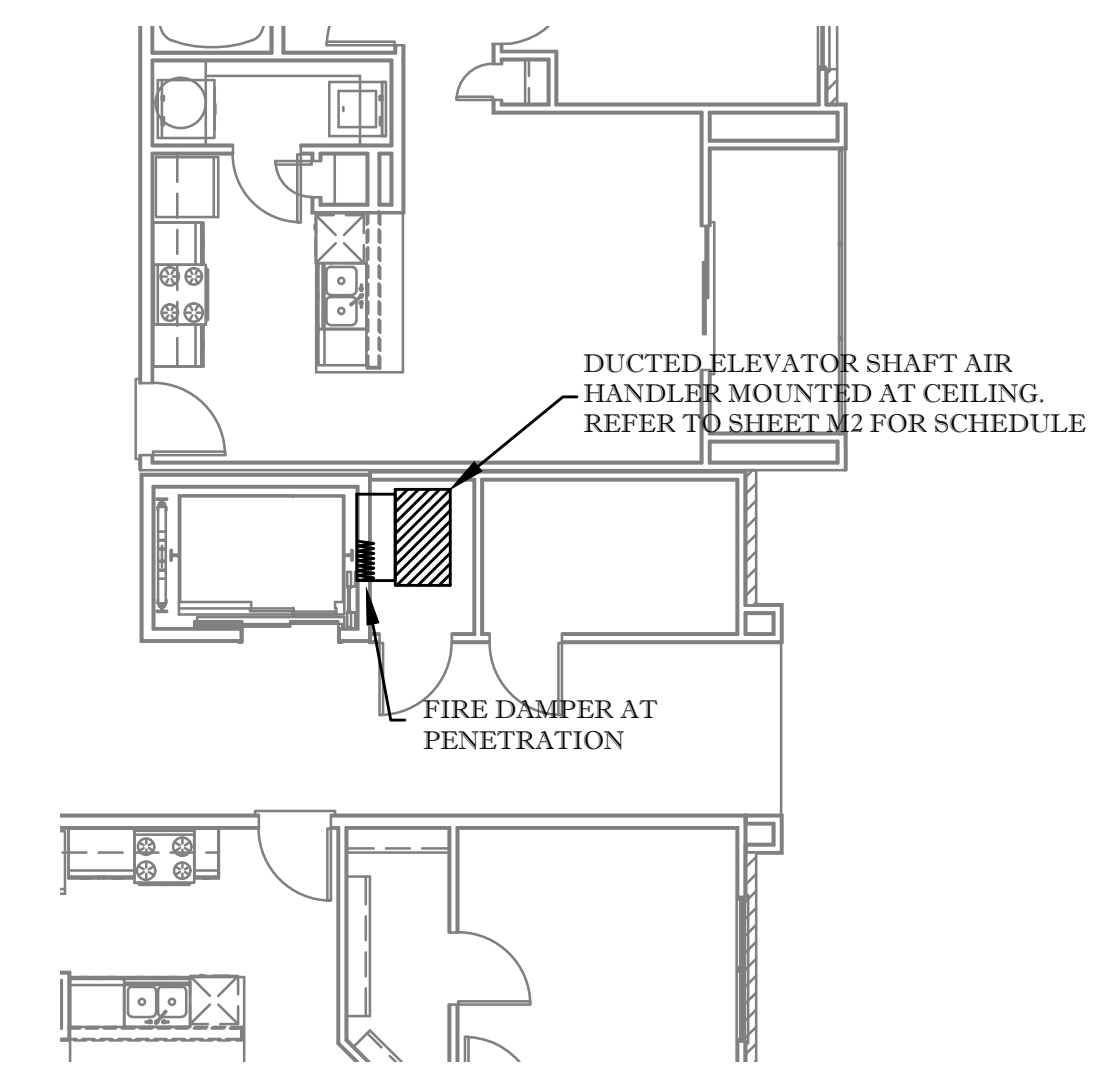
BUILDING 1 - ELEVATOR SHAFT AIR HANDLER

1/8" = 1'-0"



BUILDING 2 - ELEVATOR SHAFT AIR HANDLER

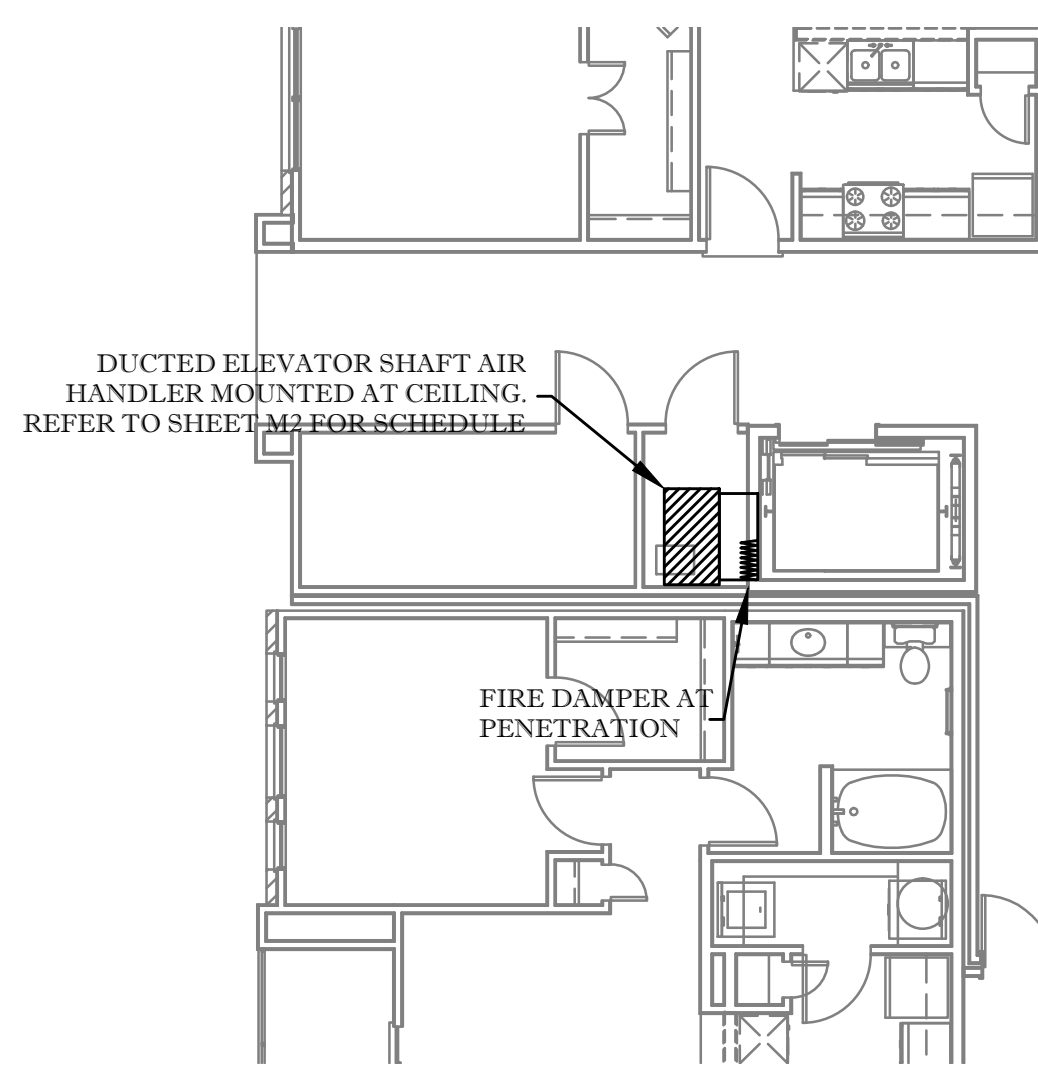
1/8" = 1'-0"



BUILDING 3 - ELEVATOR SHAFT AIR HANDLER

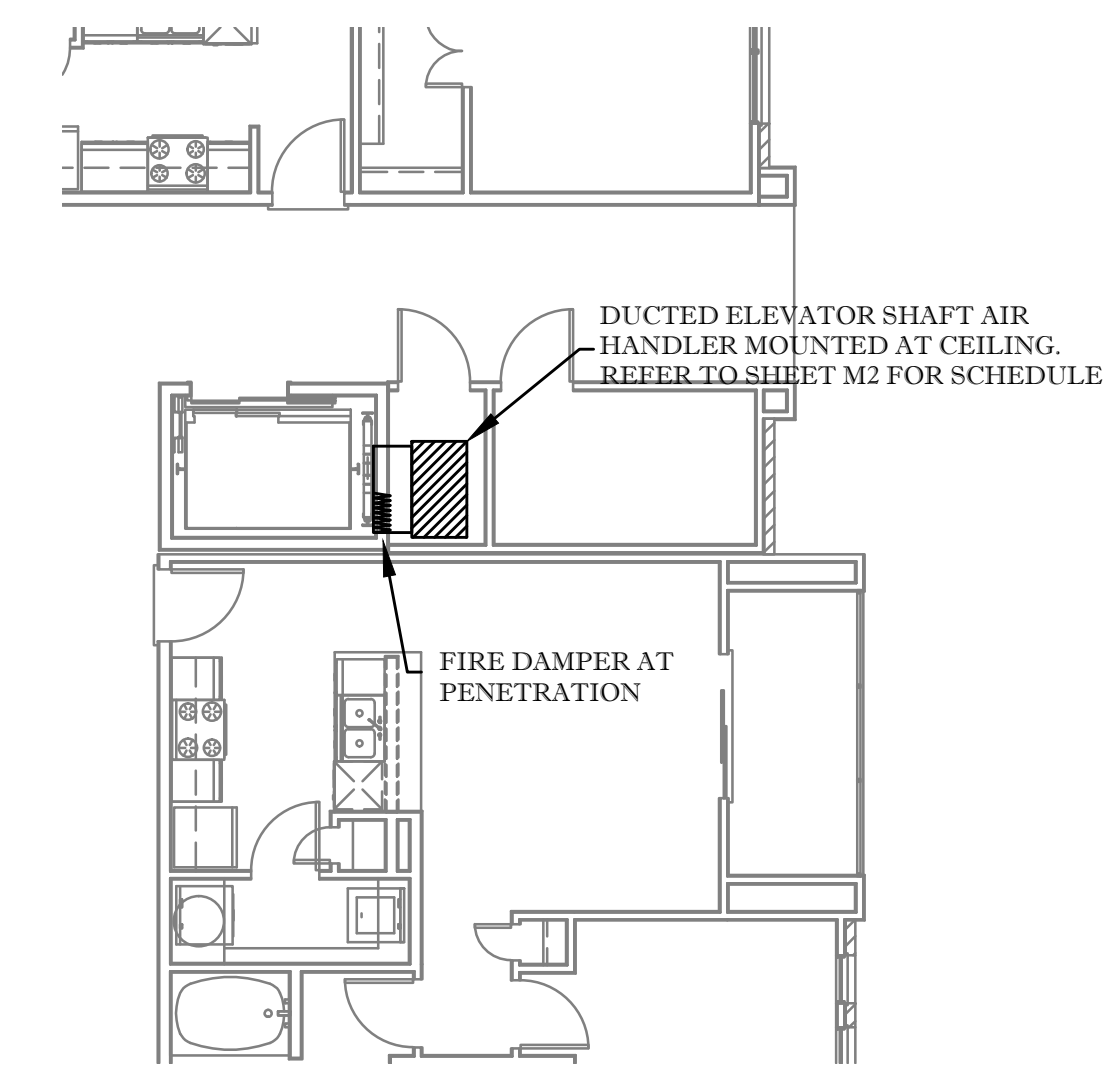
1/8" = 1'-0"

ELEVATOR SHAFT DUCTED AIR HANDLERS MOUNTED AT CEILING WITH FIRE DAMPER AT PENETRATION



BUILDING 4 - ELEVATOR SHAFT AIR HANDLER

1/8" = 1'-0"



BUILDING 5 - ELEVATOR SHAFT AIR HANDLER

1/8" = 1'-0"

© 2014 BY JRF ASSOCIATES
ALL RIGHTS RESERVED.
THE DESIGNS SHOWN HEREIN ARE THE SOLE PROPERTY OF JRF ASSOCIATES AND MAY NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE EXPRESS WRITTEN PERMISSION. ALL DESIGNS ARE BASED ON THE INFORMATION FROM OTHERS AND TO BE USED ON LANDMARK SAN ANTONIO APARTMENTS.

12-15-2014
ELEVATOR AC

PROJECT NUMBER

1322013

SCALE

N/A

ISSUE DATE
CONSTRUCTION SET
10-08-2014

SHEET NUMBER

M15.1



06-12-2014
Firm registration number
F-15222
Automation Engineering

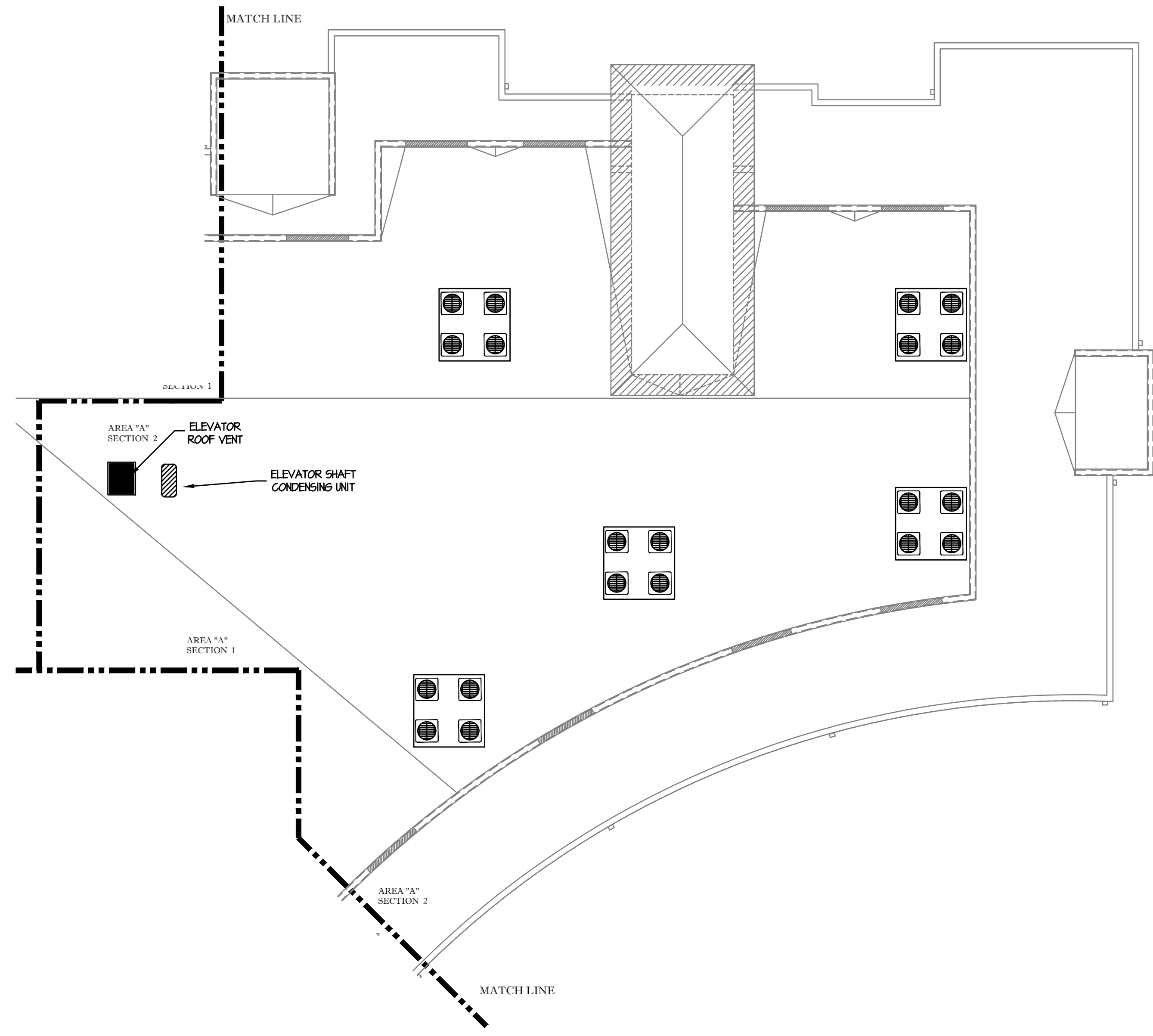
JRF ASSOCIATES

3620 Winding Way
Round Rock Texas 78664
512-970-9478 Ph

TEXAS

LANDMARK GRANDVIEW

SAN ANTONIO



BUILDING 1 - AREA "A" - SECTION "2" - CONDENSING UNITS

1/8" = 1'-0"

© 2014 BY JRF ASSOCIATES
ALL RIGHTS RESERVED.
THE DESIGNS DEPICTED HEREIN ARE THE SOLE
PROPERTY OF JRF ASSOCIATES AND MAY NOT BE
REPRODUCED OR TRANSMITTED IN ANY FORM OR
BY ANY MEANS, ELECTRONIC OR MECHANICAL,
WITHOUT THE WRITTEN PERMISSION. ALL DESIGNS ARE BASED ON THE
INFORMATION FROM OTHERS AND TO BE USED
ON LANDMARK SAN ANTONIO APARTMENTS

12-15-2014
ELEVATOR AC

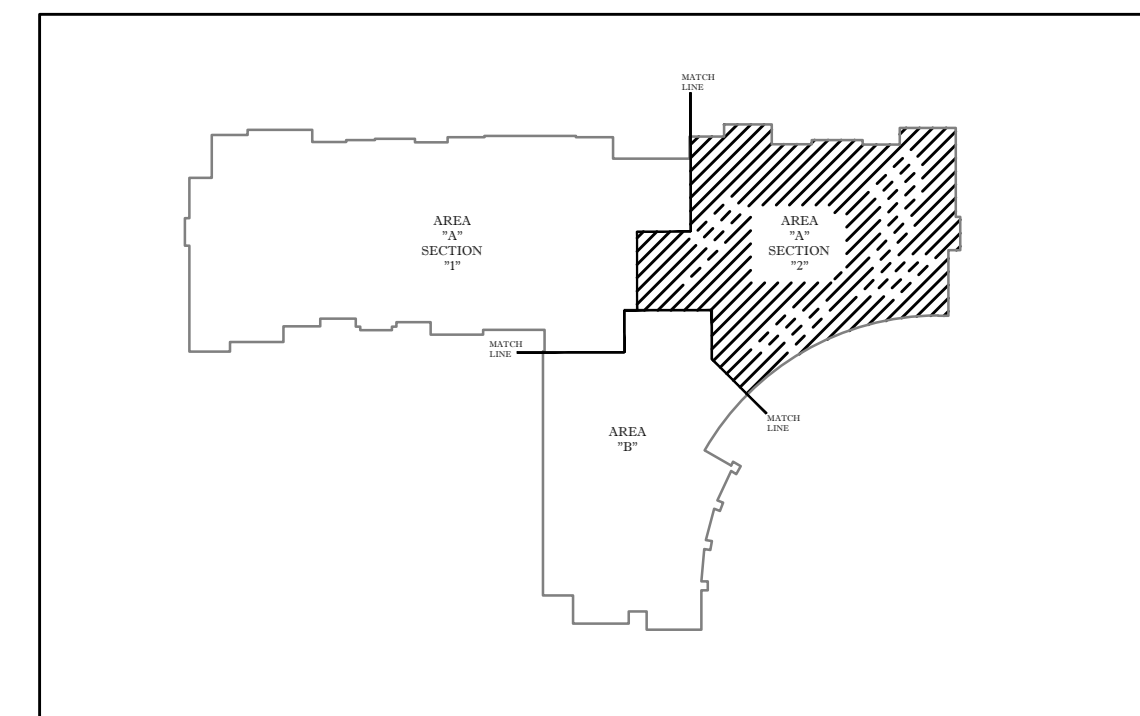
PROJECT NUMBER
1322013

SCALE
1/8" = 1' - 0"

ISSUE DATE
CONSTRUCTION SET
10-08-2014

SHEET NUMBER

M17





06-12-2014
Firm registration number
F-15222
Automation Engineering

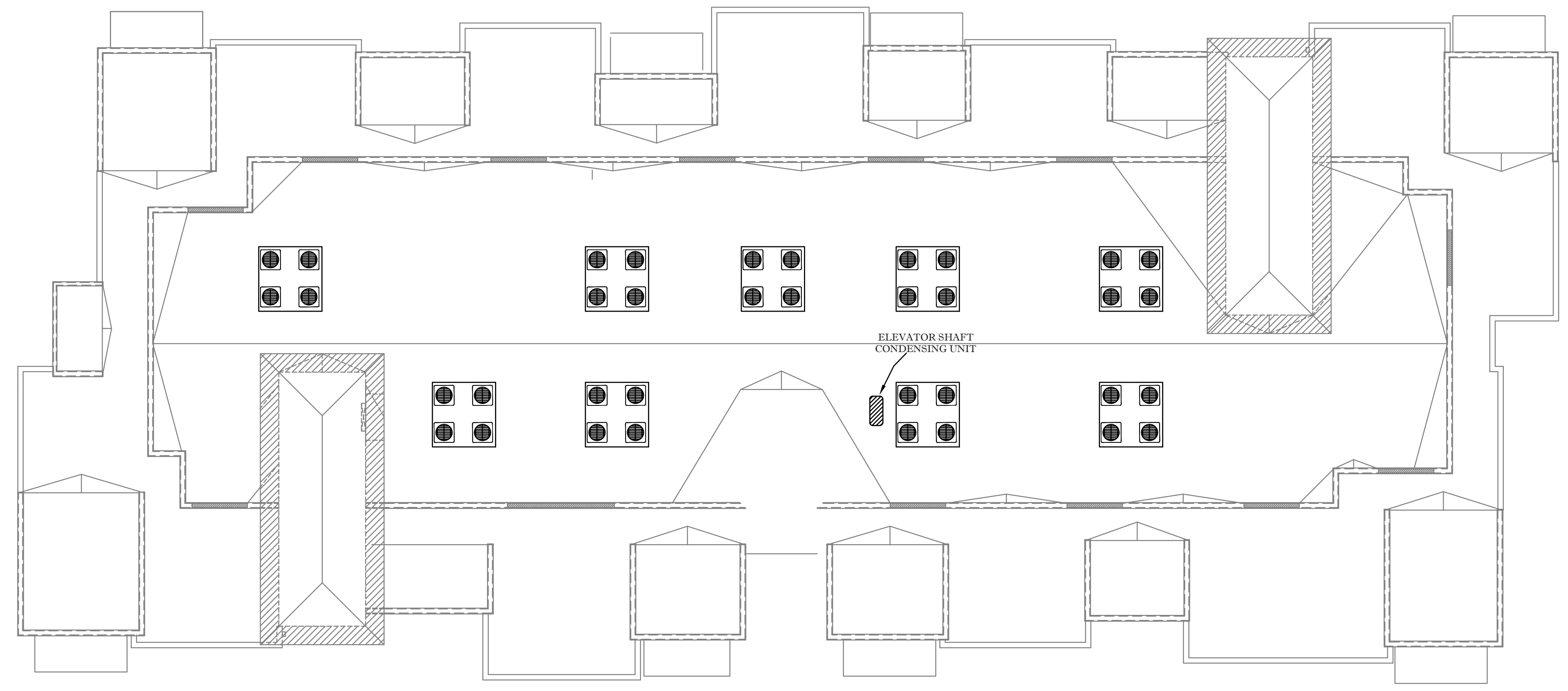
JRF ASSOCIATES

3620 Winding Way
Round Rock Texas 78664
512-970-9478 Ph

TEXAS

LANDMARK GRANDVIEW

SAN ANTONIO



BUILDING 2 - CONDENSING UNITS

1/8" = 1'-0"

© 2014 BY JRF ASSOCIATES
ALL RIGHTS RESERVED.
THE DESIGNS DEPICTED HEREIN ARE THE SOLE
PROPERTY OF JRF ASSOCIATES AND MAY NOT BE
REPRODUCED OR TRANSMITTED IN ANY FORM
OR BY ANY MEANS, ELECTRONIC OR MECHANICAL,
WITHOUT THE WRITTEN PERMISSION. ALL DESIGNS ARE BASED ON THE
INFORMATION FROM OTHERS AND TO BE USED
ON LANDMARK SAN ANTONIO APARTMENTS

12-15-2014
ELEVATOR AC

PROJECT NUMBER
1322013

SCALE
1/8" = 1' - 0"

ISSUE DATE
CONSTRUCTION SET
10-08-2014

SHEET NUMBER

M19



06-12-2014
Firm registration number
F-15222
Automation Engineering

JRF ASSOCIATES

3620 Winding Way
Round Rock Texas 78664
512-970-9478 Ph

TEXAS

LANDMARK GRANDVIEW

SAN ANTONIO

© 2014 BY JRF ASSOCIATES
ALL RIGHTS RESERVED.
THE DESIGN(S) DEPICTED HEREIN ARE THE SOLE
PROPERTY OF JRF ASSOCIATES AND MAY NOT BE
REPRODUCED OR TRANSMITTED IN ANY FORM OR
BY ANY MEANS, ELECTRONIC OR MECHANICAL,
WITHOUT THE WRITTEN PERMISSION. ALL DESIGN(S) ARE BASED ON THE
INFORMATION FROM OTHERS AND TO BE USED
ON LANDMARK SAN ANTONIO APARTMENTS

12-15-2014
ELEVATOR AC

PROJECT NUMBER
1322013

SCALE
1/8" = 1' - 0"

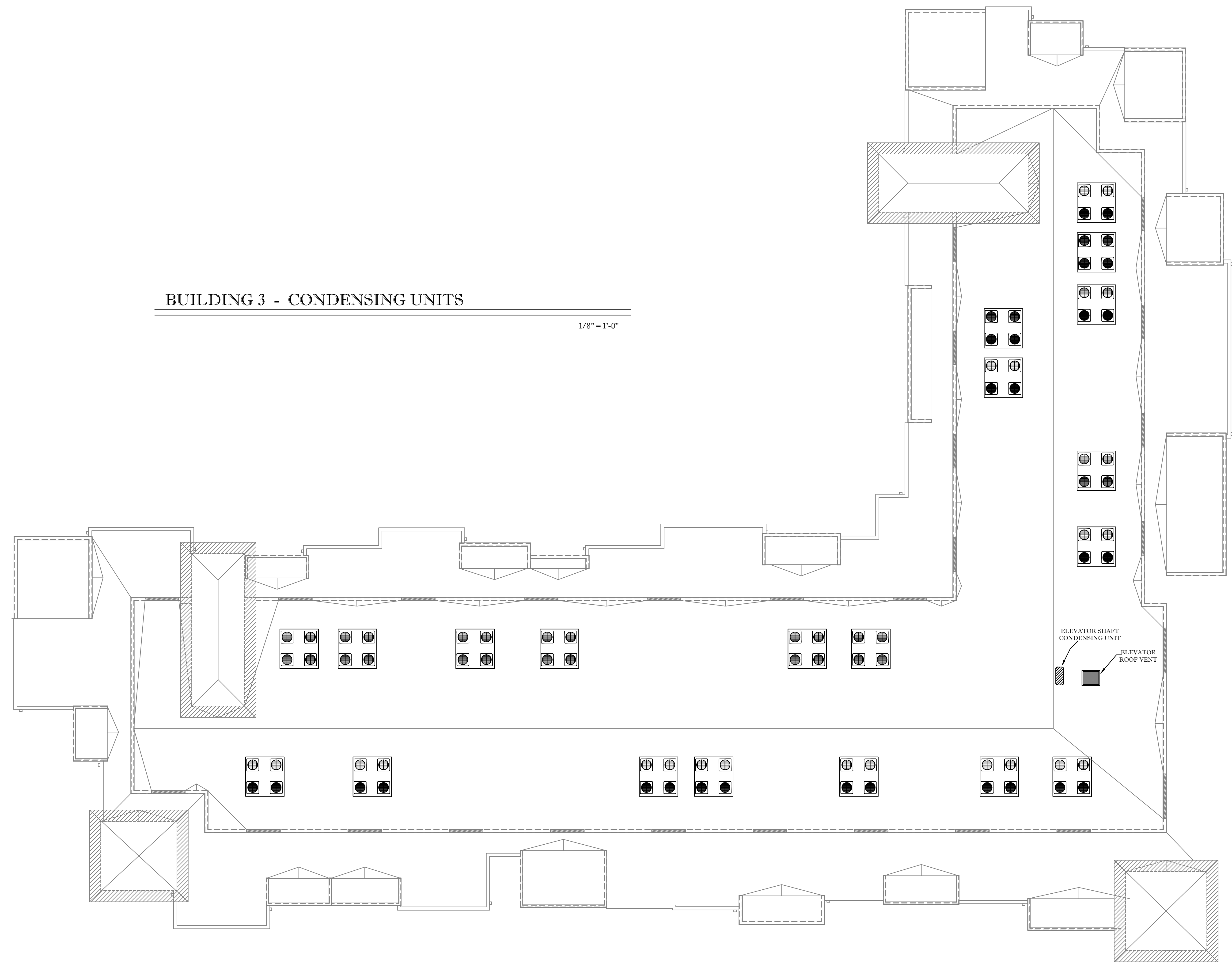
ISSUE DATE
CONSTRUCTION SET
10-08-2014

SHEET NUMBER

M20

BUILDING 3 - CONDENSING UNITS

1/8" = 1'-0"





Firm registration number
F-15222
Automation Engineering

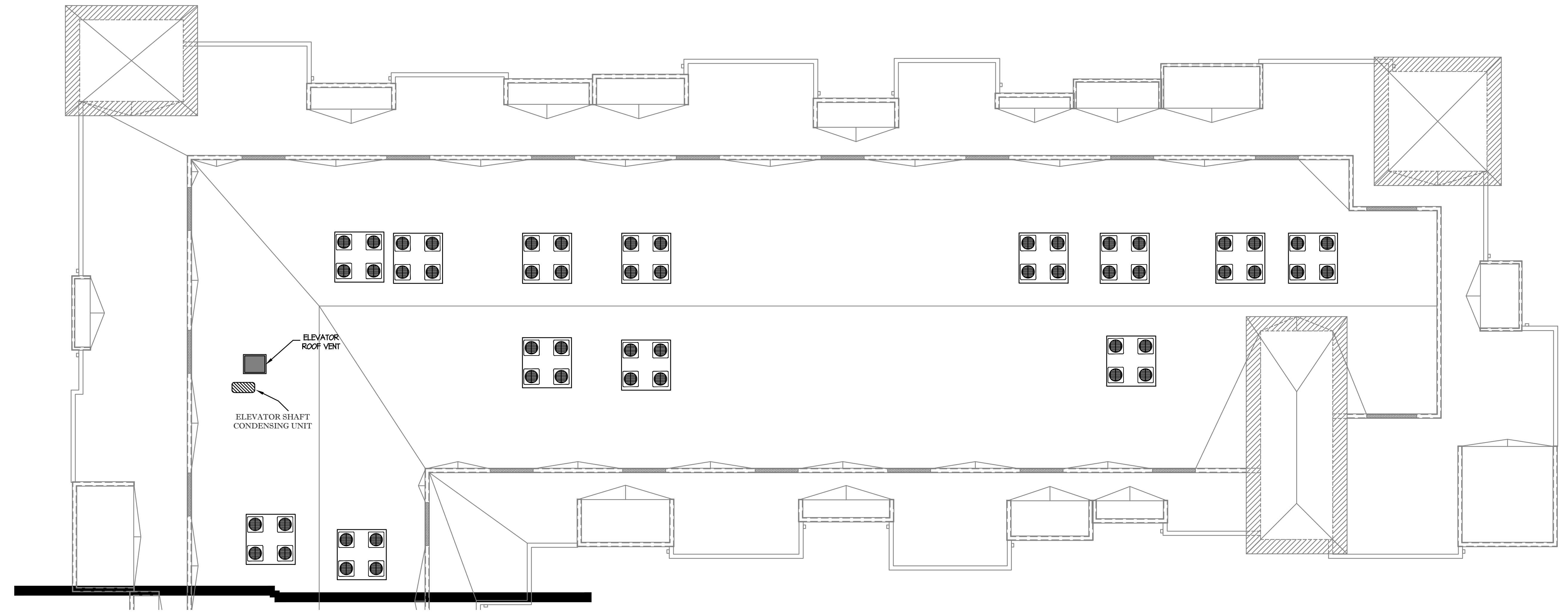
JRF ASSOCIATES

3620 Winding Way
Round Rock Texas 78664
512-970-9478 Ph

TEXAS

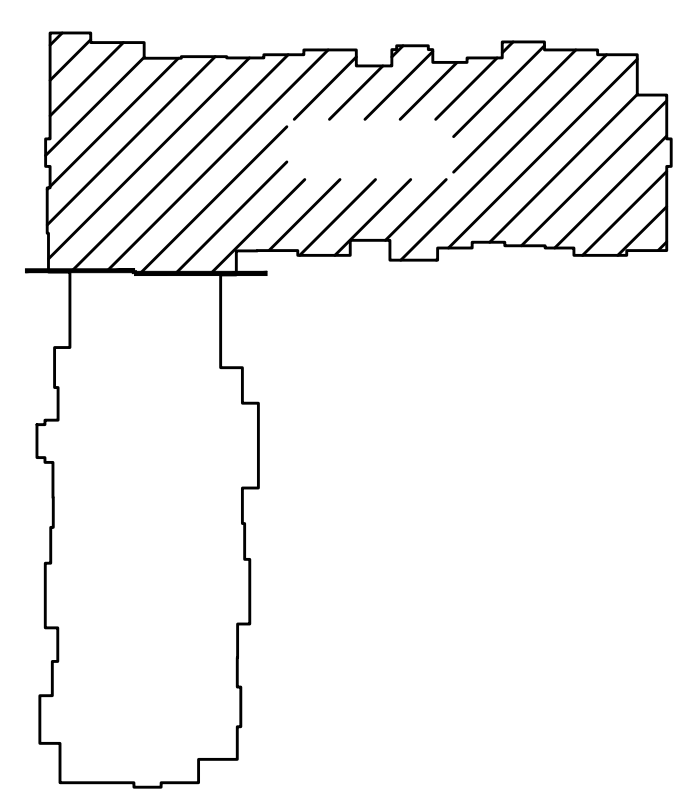
LANDMARK GRANDVIEW

SAN ANTONIO



BUILDING 4 - AREA "A" - CONDENSING UNITS

1/8" = 1'-0"



© 2014 BY JRF ASSOCIATES
ALL RIGHTS RESERVED.
THE DESIGN SHOWN HEREIN ARE THE SOLE
PROPERTY OF JRF ASSOCIATES AND MAY NOT BE
REPRODUCED OR TRANSMITTED IN ANY
FORM OR BY ANY MEANS, ELECTRONIC OR
MECHANICAL, WITHOUT THE WRITTEN
PERMISSION. ALL DESIGN ARE BASED ON THE
INFORMATION FROM OTHERS AND TO BE USED
ON LANDMARK SAN ANTONIO APARTMENTS

12-15-2014
ELEVATOR AC

PROJECT NUMBER
1322013

SCALE
1/8" = 1' - 0"

ISSUE DATE
CONSTRUCTION SET
10-08-2014

SHEET NUMBER

M21

BUILDING 4 - AREA "B" - CONDENSING UNITS

1/8" = 1'-0"



Firm registration number
F-15222
Automation Engineering

JRF ASSOCIATES

3620 Winding Way
Round Rock Texas 78664
512-970-9478 Ph

LANDMARK GRANDVIEW
SAN ANTONIO TEXAS

© 2014 BY JRF ASSOCIATES
ALL RIGHTS RESERVED.
THE DESIGNS DEPICTED HEREIN ARE THE SOLE
PROPERTY OF JRF ASSOCIATES AND MAY NOT BE
REPRODUCED OR TRANSMITTED IN ANY FORM OR
BY ANY MEANS, ELECTRONIC OR MECHANICAL,
WITHOUT THE WRITTEN PERMISSION. ALL DESIGNS ARE BASED ON THE
INFORMATION FROM OTHERS AND TO BE USED
ON LANDMARK SAN ANTONIO APARTMENTS.

PROJECT NUMBER
1322013
SCALE
1/8" = 1' - 0"
ISSUE DATE
CONSTRUCTION SET
10-08-2014

SHEET NUMBER
M22

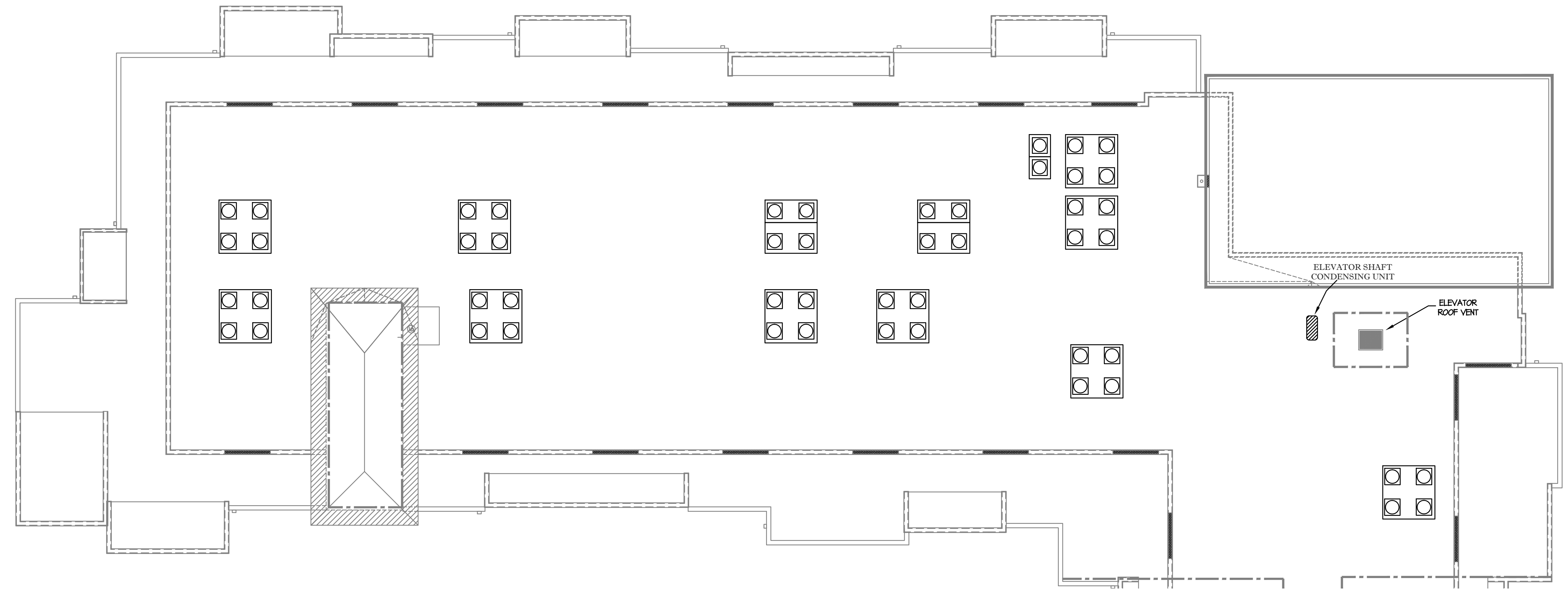


06-12-2014
Firm registration number
F-15222
Automation Engineering

JRF ASSOCIATES

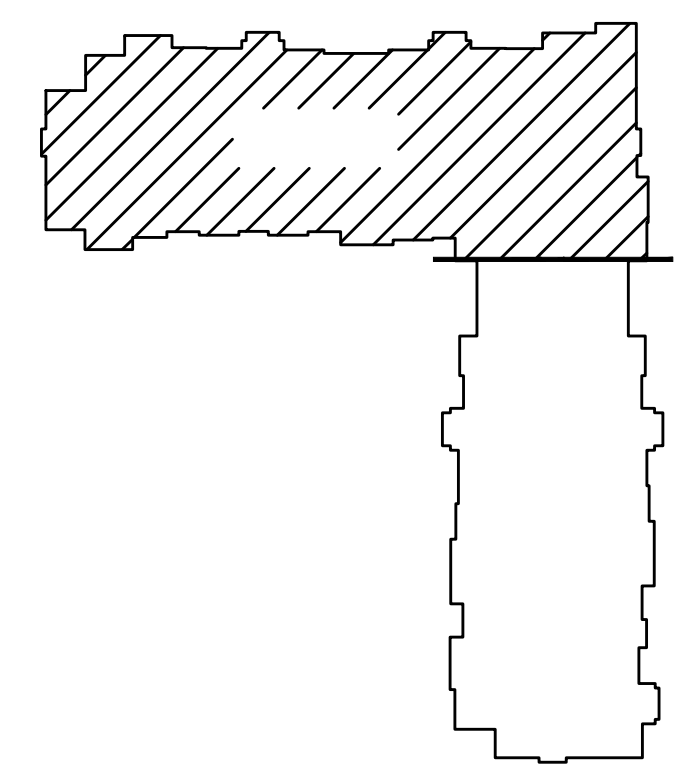
3620 Winding Way
Round Rock Texas 78664
512-970-9478 Ph

TEXAS
LANDMARK GRANDVIEW
SAN ANTONIO



BUILDING 5 - AREA "A" - CONDENSING UNITS

1/8" = 1'-0"



© 2014 BY JRF ASSOCIATES
ALL RIGHTS RESERVED.
THE DESIGNS DEPICTED HEREIN ARE THE SOLE
PROPERTY OF JRF ASSOCIATES AND MAY NOT BE
REPRODUCED OR TRANSMITTED IN ANY
FORM OR BY ANY MEANS, WITHOUT THE
PERMISSION. ALL DESIGNS ARE BASED ON THE
INFORMATION FROM OTHERS AND TO BE USED
ON LANDMARK SAN ANTONIO APARTMENTS

12-15-2014
ELEVATOR AC

PROJECT NUMBER
1322013

SCALE
1/8" = 1' - 0"

ISSUE DATE
CONSTRUCTION SET
10-08-2014

SHEET NUMBER

M23