

HEAT RECOVERY VENTILATOR SCHEDULE

|        |              |         |             | FAN  | ESP    | MOTOR DATA |             | POWER DATA |      |     |                                                                                                      |
|--------|--------------|---------|-------------|------|--------|------------|-------------|------------|------|-----|------------------------------------------------------------------------------------------------------|
| SYMBOL | MANUFACTURER | MODEL   | AREA SERVED | CFM  | IN. WC | SUPPLY FAN | EXHAUST FAN | VOLTS/PH   | MCA  | MOP | REMARKS                                                                                              |
| HRV-1  | ALDES        | CH2000e | LEVEL 2 & 3 | 1500 | 1.0    | 2.5HP      | 2.5HP       | 208/3      | 13.3 | 15  | DUAL POLYPROPYLENE CORES, PREHEAT COIL, RE-HEAT COIL, FACE & BYPASS DAMPERS, SPEED CONTROL.          |
| HRV-2  | ALDES        | H650FI  | LEVEL 1     | 400  | 0.5    | 0.5HP      | 0.5HP       | 120/1      | -    | -   | DUAL POLYPROPYLENE CORES, EXHAUST DEFROST CONTROL, SUPPLY/EXHAUST DAMPERS, SPEED CONTROL, WITH HC-2. |
| HRV-3  | ALDES        | H650RI  | RETAIL      | 400  | 0.5    | 0.5HP      | 0.5HP       | 120/1      | -    | -   | DUAL POLYPROPYLENE CORES, RECIRC DEFROST CONTROL, SUPPLY/EXHAUST DAMPERS, SPEED CONTROL.             |
| HRV-4  | ALDES        | H650RI  | RETAIL      | 400  | 0.5    | 0.5HP      | 0.5HP       | 120/1      | -    | -   | DUAL POLYPROPYLENE CORES, RECIRC DEFROST CONTROL, SUPPLY/EXHAUST DAMPERS, SPEED CONTROL.             |
| HRV-5  | ALDES        | H650RI  | RETAIL      | 400  | 0.5    | 0.5HP      | 0.5HP       | 120/1      | -    | -   | DUAL POLYPROPYLENE CORES, RECIRC DEFROST CONTROL, SUPPLY/EXHAUST DAMPERS, SPEED CONTROL.             |

BOILER SCHEDULE

|        |              |         | HEATED |          | GROSS INPUT | GROSS        | BURNER |       |       |                                                                                     |
|--------|--------------|---------|--------|----------|-------------|--------------|--------|-------|-------|-------------------------------------------------------------------------------------|
| SYMBOL | MANUFACTURER | MODEL   | MEDIUM | FUEL     | MBH         | OUTPUT (MBH) | AMP    | POWER | LABEL | REMARKS                                                                             |
| B-1    | LOCHINVAR    | KBN-501 | 50% PG | NAT. GAS | 500         | 467          | 2.7    | 120/1 | ASME  | STAINLESS STEEL HEAT EXCHANGER, PH NEUTRALIZER FOR CONDENSATE, VARIABLE SPEED PUMP. |
| B-2    | LOCHINVAR    | KBN-501 | 50% PG | NAT. GAS | 500         | 467          | 2.7    | 120/1 | ASME  | STAINLESS STEEL HEAT EXCHANGER, PH NEUTRALIZER FOR CONDENSATE, VARIABLE SPEED PUMP. |

HOT WATER GENERATOR SCHEDULE

|        |                     |          | DOMESTIC HOT WATER |          |          |         |     |     | HEATING WATER |      |      |     |     |     |         |
|--------|---------------------|----------|--------------------|----------|----------|---------|-----|-----|---------------|------|------|-----|-----|-----|---------|
| SYMBOL | MANUFACTURER        | MODEL    | MEDIUM             | RECOVERY | CAPACITY | HEATING | EWT | LWT |               | FLOW | WPD  | EWT | LWT |     | REMARKS |
| HWG-1  | HTP-SUPERSTOR ULTRA | SSU-119C | WATER              | 548      | 120      | COIL    | 50  | 140 | 50% PG        | 28   | 12.7 | 180 | 145 | NSF |         |
| HWG-2  | HTP-SUPERSTOR ULTRA | SSU-119C | WATER              | 548      | 120      | COIL    | 50  | 140 | 50% PG        | 28   | 12.7 | 180 | 145 | NSF |         |

WATER SOURCE HEAT PUMP UNIT SCHEDULE

| SYMBOL  | MANUFACTURER | MODEL       | GPM  | WPD | COOLING (BTU/HR) | HEATING (BTU/HR) | VOLTS/PH | TOTAL FLA | MCA | MOP | WEIGHT (LBS) | REMARKS                                                         |
|---------|--------------|-------------|------|-----|------------------|------------------|----------|-----------|-----|-----|--------------|-----------------------------------------------------------------|
| WSHP-1A | LG           | ARWB288BAS4 | 35.5 | 9.2 | 144,000          | 162,000          | 208/3    | 28.8      | 36  | 60  | 302          | DUAL FRAME UNIT CONSISTS OF <u>WHSP-1A</u> AND <u>WHSP-1B</u> . |
| WSHP-1B |              |             | 35.5 | 9.2 | 144,000          | 162,000          | 208/3    | 28.8      | 36  | 60  | 302          |                                                                 |
| WSHP-2A | LG           | ARWB288BAS4 | 35.5 | 9.2 | 144,000          | 162,000          | 208/3    | 28.8      | 36  | 60  | 302          | DUAL FRAME UNIT CONSISTS OF <u>WHSP-2A</u> AND <u>WHSP-2B</u> . |
| WSHP-2B |              |             | 35.5 | 9.2 | 144,000          | 162,000          | 208/3    | 28.8      | 36  | 60  | 302          |                                                                 |

EXPANSION TANK SCHEDULE

|        |              |          |                         |          |          | TANK VOLUME |                  |                    |       |                                      |
|--------|--------------|----------|-------------------------|----------|----------|-------------|------------------|--------------------|-------|--------------------------------------|
| SYMBOL | MANUFACTURER | MODEL    | FUNCTION                | MEDIUM   | MATERIAL | TOTAL (GAL) | ACCEPTANCE (GAL) | DIMENSIONS         | LABEL | REMARKS                              |
| ET-1   | AMTROL       | SX-130V  | BUILDING HEATING SYSTEM | 50% P.G. | STEEL    | 81          | 34               | 22" DIA x 56" H    |       | CHARGE TO 12 PSI.                    |
| ET-2   | AMTROL       | SX-30V   | WELL FIELD LOOP         | 30% P.G. | STEEL    | 14          | 11               | 15" DIA x 24" H    |       | CHARGE TO 12 PSI.                    |
| ET-3   | AMTROL       | ST-30V-C | DOMESTIC HEATING WATER  | WATER    | STEEL    | 14.0        | 11               | 15" DIA x 24" HIGH | NSF   | SET TO INCOMING CITY WATER PRESSURE. |

PUMP SCHEDULE

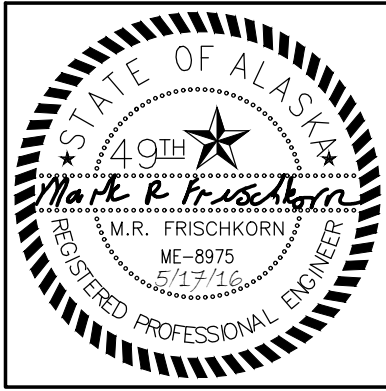
|        |              |               |                        | PUMPED   | HEAD |      | MOTOR DATA |       |       |                                            |
|--------|--------------|---------------|------------------------|----------|------|------|------------|-------|-------|--------------------------------------------|
| SYMBOL | MANUFACTURER | MODEL         | FUNCTION               | MEDIUM   | GPM  | FEET | RPM        | HP    | POWER | REMARKS                                    |
| CP-1   | GRUNDFOS     | 20959 VL      | WELL FIELD LOOP        | 30% P.G. | 142  | 85   | 1800       | 7.5   | 208/3 |                                            |
| CP-2   | GRUNDFOS     | 20959 VL      | WELL FIELD LOOP        | 30% P.G. | 142  | 85   | 1800       | 7.5   | 208/3 |                                            |
| CP-3   | GRUNDFOS     | UPS 50-80/2FB | HOT WATER GENERATOR    | 50% P.G. | 56   | 24   | 3450       | 3/4   | 208/3 |                                            |
| CP-4   | GRUNDFOS     | UPS 32-80/2   | SERVING HX-1           | 50% P.G. | 20   | 25   | 3450       | 1/2   | 208/3 |                                            |
| CP-5   | GRUNDFOS     | UPS 32-80/2   | SERVING BT-1           | 50% P.G. | 25   | 17   | 1750       | 1/2   | 208/3 |                                            |
| CP-6   | GRUNDFOS     | UPS 40-240/2  | BUILDING HEATING LOOP  | 50% P.G. | 42   | 45   | 3450       | 1-1/2 | 208/3 |                                            |
| CP-7   | GRUNDFOS     | UP 26-64F     | HOT WATER CIRCULATION  | WATER    | 7    | 22   | -          | 1/12  | 120/1 | BRONZE CONSTRUCTION                        |
| BP-1,2 | LOCHINVAR    | PUM20077      | BOILER PUMP            | 50% P.G. | 46   | 23   | VARIES     | 2.3A  | 120/1 | VARIABLE SPEED PUMP.                       |
| SP-1   | LIBERTY      | ELV280        | ELEVATOR PIT SUMP PUMP | WATER    | 50   | 15   | -          | 1/2   | 120/1 | OIL-TECTOR FLOAT CONTROL, 6FT CORD & PLUG. |

TEMPERING VALVE SCHEDULE

| SYMBOL | MANUFACTURER | MODEL | FINISH       | INLET SIZE | OUTLET SIZE | TEMPERATURE RANGE (DEG F) | SET POINT (DEG F) | FLOW RATE | PRESS. DROP | ACCESSORIES/REMARKS             |
|--------|--------------|-------|--------------|------------|-------------|---------------------------|-------------------|-----------|-------------|---------------------------------|
| TV-1   | SYMMONS      | 5-900 | PLAIN BRONZE | 1-1/2"     | 1-1/2"      | 85 TO 135                 | 110               | 44 GPM    | 6 PSI       | LIQUID FILLED DIAL THERMOMETER. |

AIR SEPARATOR SCHEDULE

| SYMBOL | MANUFACTURER | MODEL   | SIZE | CONNECTION | MATERIAL | FLUID    | REMARKS                                                                                       |
|--------|--------------|---------|------|------------|----------|----------|-----------------------------------------------------------------------------------------------|
| AS-1   | SPIROTHERM   | VDN 300 | 4"   | FLANGED    | STEEL    | 40% P.G. | COMBINATION AIR AND DIRT SEPARATOR, 1 FT PRESSURE DROP, 154 GPM, REMOVABLE HEAD FOR CLEANING. |



COOK INLET HOUSING AUTHORITY  
SPENARD MIXED USE  
ANCHORAGE, AK

| REVISION SCHEDULE |                |         |
|-------------------|----------------|---------|
| #                 | DESCRIPTION    | DATE    |
| 1                 | DRAWING CHANGE | 5/17/16 |

|          |           |
|----------|-----------|
| JOB NO.  | L6225.00  |
| DATE     | 4.11.2016 |
| DRAWN    | CMR       |
| REVIEWED | MRF       |

|            |                      |
|------------|----------------------|
| SHEET NAME | MECHANICAL SCHEDULES |
|------------|----------------------|

|           |      |
|-----------|------|
| SHEET NO. | M.01 |
|-----------|------|

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PERMIT SUBMITTAL

AIR INLET/OUTLET SCHEDULE

| SYMBOL | MANUFACTURER | MODEL | TYPE     | USE         | MATERIAL | FINISH | CFM       | FACE SIZE (IN.) | NC  | THROW | REMARKS                     |
|--------|--------------|-------|----------|-------------|----------|--------|-----------|-----------------|-----|-------|-----------------------------|
| A      | TITUS        | 300RL | SIDEWALL | SUPPLY      | STEEL    | WHITE  | PER PLANS | PER PLANS       | <30 | 2-WAY | SURFACE MOUNT, WITH DAMPER. |
| B      | TITUS        | 45F   | EGGCRATE | RETURN      | ALUMINUM | WHITE  | —         | PER PLANS       | <30 | —     | SURFACE MOUNT WITH DAMPER.  |
| C      | TITUS        | 350RL | EGGCRATE | HRV EXHAUST | ALUMINUM | WHITE  | —         | PER PLANS       | <30 | —     | SURFACE MOUNT.              |
| D      | TITUS        | OMNI  | CEILING  | SUPPLY      | STEEL    | WHITE  | PER PLANS | 12"x12"         | <30 | 4-WAY | SURFACE MOUNT WITH DAMPER.  |
| E      | TITUS        | OMNI  | CEILING  | SUPPLY      | STEEL    | WHITE  | PER PLANS | 24"x24"         | <30 | 4-WAY | SURFACE MOUNT WITH DAMPER.  |

INDOOR AIR UNIT SCHEDULE

| SYMBOL             | MANUFACTURER | MODEL       | COOLING (BTU/HR) | HEATING (BTU/HR) | FAN      |         |      | VOLTS/PH | TOTAL FLA | MOP | REMARKS            |
|--------------------|--------------|-------------|------------------|------------------|----------|---------|------|----------|-----------|-----|--------------------|
|                    |              |             |                  |                  | HIGH CFM | LOW CFM | ESP  |          |           |     |                    |
| IAU-1 thru IAU-7   | LG           | ARNU073BGA4 | 7,500            | 8,500            | 516      | 434     | 0.20 | 208/1    | 2.65      | 15  | R410A REFRIGERANT. |
| IAU-8 thru IAU-10  | LG           | ARNU123BGA4 | 12,300           | 13,600           | 586      | 484     | 0.20 | 208/1    | 2.65      | 15  | R410A REFRIGERANT. |
| IAU-11 thru IAU-23 | LG           | ARNU073BGA4 | 7,500            | 8,500            | 516      | 434     | 0.20 | 208/1    | 2.65      | 15  | R410A REFRIGERANT. |
| IAU-24 thru IAU-26 | LG           | ARNU123BGA4 | 12,300           | 13,600           | 586      | 484     | 0.20 | 208/1    | 2.65      | 15  | R410A REFRIGERANT. |
| IAU-27 thru IAU-39 | LG           | ARNU073BGA4 | 7,500            | 8,500            | 516      | 434     | 0.20 | 208/1    | 3.5       | 15  | R410A REFRIGERANT. |
| IAU-40 thru IAU-42 | LG           | ARNU123BGA4 | 12,300           | 13,600           | 586      | 484     | 0.20 | 208/1    | 2.65      | 15  | R410A REFRIGERANT. |
| IAU-43 thru IAU-45 | LG           | ARNU543BRA4 | 54,000           | 61,400           | 1819     | 1395    | 0.39 | 208/1    | 3.5       | 15  | R410A REFRIGERANT. |
| IAU-46             | LG           | ARNU123BGA4 | 12,300           | 13,600           | 586      | 484     | 0.20 | 208/1    | 2.65      | 15  | R410A REFRIGERANT. |

HEAT RECOVERY UNIT SCHEDULE

| SYMBOL | MANUFACTURER | MODEL    | COOLING/HEATING (BTU/HR) | REFRIGERANT | VOLTS/PH | AMPS | REMARKS                                                                |
|--------|--------------|----------|--------------------------|-------------|----------|------|------------------------------------------------------------------------|
| HRU    | LG           | PRHR042A | 192,000                  | 410A        | 208/1    | 0.16 | ALLOWS SIMULTANEOUS HEATING AND COOLING OF CONNECTED INDOOR AIR UNITS. |

PLUMBING FIXTURE SCHEDULE

| SYMBOL | BASIS OF DESIGN | MODEL               | DESCRIPTION           | ADA | MOUNTING | CW  | HW  | WASTE | VENT  | TRAP  | COLOR     | TRIM/REMARKS                                                                                                                                                                                                                                                          |
|--------|-----------------|---------------------|-----------------------|-----|----------|-----|-----|-------|-------|-------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P-1    | KOHLER          | K-3609 CIMARRON     | WATER CLOSET          | ×   | FLOOR    | 1   | —   | 3     | 2     | —     | WHITE     | TANK TYPE, 1.28 GPF, K-4650 ELONGATED SEAT WITH COVER.                                                                                                                                                                                                                |
| P-2    | KOHLER          | K-2906 ELLINGTON    | LAVATORY              | ×   | DROP IN  | 1/2 | 1/2 | 1-1/2 | 1-1/2 | 1-1/4 | WHITE     | FAUCET SYMMONS SYMMETRIX MODEL S-20-2 SINGLE LEVER HANDLE FAUCET WITH STAINLESS FINISH, POP-UP DRAIN.                                                                                                                                                                 |
| P-3    | STERLING        | ACCLAIM 7109 SERIES | BATHTUB/SHOWER        | ×   | —        | 1/2 | 1/2 | 2     | 1-1/2 | 2     | WHITE     | SPECIFY RIGHT/LEFT HAND DRAIN WHEN ORDERING, SYMMONS ALLURA 4706 TUB & SHOWER SYSTEM, PRESSURE BALANCED MIXING, VALVE, TRIPLE DIVERTER VALVE, HAND SHOWER W/5' HOSE, SHOWER HEAD, TUB SPOUT, POLISHED CHROME FINISH, 3-PIECE SURROUND WITH GRAB BARS, FOLD DOWN SEAT. |
| P-4    | OATEY           | FIRE RATED          | CLOTHES WASHER        |     | WALL     | 3/4 | 3/4 | 2     | 1-1/2 | 2     | WHITE     | THERMOPLASTIC BOX, SINGLE LEVER VALVE WITH WATER HAMMER ARRESTORS.                                                                                                                                                                                                    |
| P-5    | JUST            | DL-ADA-2133-A-GR    | KITCHEN DOUBLE SINK   | ×   | COUNTER  | 1/2 | 1/2 | 2     | 1-1/2 | 2     | STAINLESS | 6.5" DEEP BOWLS, SYMMONS ANDORA #S-26-IPS-1.5 PULL-OUT FAUCET W/SPRAY, SINGLE LEVER TEMPERATURE CONTROL, AND STAINLESS BASKET STRAINERS.                                                                                                                              |
| P-6    | OATEY           | FIRE RATED          | ICE MAKER BOX         |     | WALL     | 3/4 | 3/4 | 2     | 1-1/2 | 2     | WHITE     | THERMOPLASTIC BOX, SINGLE LEVER VALVE WITH WATER HAMMER ARRESTORS.                                                                                                                                                                                                    |
| FD-1   | J.R. SMITH      | 2605                | FLOOR DRAIN           |     | FLOOR    | —   | —   | 2     | 1-1/2 | 2     | —         | ROUND TOP, TRAP PRIMER CONNECTION.                                                                                                                                                                                                                                    |
| FD-2   | J.R. SMITH      | 2110                | FLOOR DRAIN           |     | FLOOR    | —   | —   | 2     | 1-1/2 | 2     | —         | 8-1/2" ROUND TOP.                                                                                                                                                                                                                                                     |
| HB-1   | WOODFORD        | MODEL B65-CH        | HOSE BIBB - EXTERIOR  | —   | —        | 3/4 | —   | —     | —     | —     | —         | CHROME, FREEZELESS, ANTI-SIPHON VACUUM BREAKER, METAL HANDLE, LOCKING WALL BOX.                                                                                                                                                                                       |
| RD-1   | J.R. SMITH      | 1015                | ROOF DRAIN            | —   | —        | —   | —   | 3     | —     | —     | —         | ADJUSTABLE EXTENSION, UNDERDECK CLAMP, CAST IRON DOME.                                                                                                                                                                                                                |
| OD-1   | J.R. SMITH      | 1045                | ROOF DRAIN - OVERFLOW | —   | —        | —   | —   | 3     | —     | —     | —         | ADJUSTABLE EXTENSION, UNDERDECK CLAMP, CAST IRON DOME, 2" WATER DAM                                                                                                                                                                                                   |

TANK SCHEDULE

| SYMBOL | MANUFACTURER | MODEL   | FUNCTION       | MEDIUM | MATERIAL     | TANK CAPACITY (GAL) | DIMENSIONS         | LABEL | REMARKS                                                    |
|--------|--------------|---------|----------------|--------|--------------|---------------------|--------------------|-------|------------------------------------------------------------|
| BT-1   | LOCHINVAR    | BVU 300 | BUFFER TANK    | 30% PG | STEEL        | 300                 | 80" TALL, 40" DIA  | ASME  | 2" INSULATION AND METAL JACKET.                            |
| BT-2   | LOCHINVAR    | BVU 300 | BUFFER TANK    | 50% PG | STEEL        | 300                 | 80" TALL, 40" DIA  | ASME  | 2" INSULATION AND METAL JACKET.                            |
| GT-1   | AXIOM        | MF300   | HEATING SYSTEM | 50% PG | POLYETHYLENE | 17                  | 36" TALL, 12"x 12" | UL    | PUMP AND CONTROLS FOR INJECTION, CORD AND PLUG CONNECTION. |
| GT-2   | AXIOM        | SF100   | WELL FIELD     | 30% PG | POLYETHYLENE | 55                  | 49" TALL, 24" DIA  | UL    | PUMP AND CONTROLS FOR INJECTION, CORD AND PLUG CONNECTION. |

HEAT EXCHANGER SCHEDULE

| SYMBOL | MANUFACTURER | MODEL      | TYPE  | FUNCTION     | HOT SIDE |            |             |           |           | COLD SIDE |            |             |           |           | REMARKS                                                                                       |
|--------|--------------|------------|-------|--------------|----------|------------|-------------|-----------|-----------|-----------|------------|-------------|-----------|-----------|-----------------------------------------------------------------------------------------------|
|        |              |            |       |              | MEDIUM   | FLOW (GPM) | WPD (FT HD) | EGT DEG F | LGT DEG F | MEDIUM    | FLOW (GPM) | WPD (FT HD) | EGT DEG F | LGT DEG F |                                                                                               |
| HX-1   | GEA          | FP5X12L-30 | PLATE | SERVING BT-1 | 50% PG   | 20.0       | 1.5         | 160       | 110       | 30% PG    | 25         | 2.4         | 20        | 50        | BRAZED PLATE, SINGLE WALL, NUMBER OF PLATES TO MATCH PERFORMANCE SPECIFIED, MOUNTING BRACKET. |

FAN SCHEDULE

| SYMBOL | MANUFACTURER | MODEL        | TYPE | SERVICE               | CFM | TSP     | MOTOR DATA |      |       |  | DRIVE  | SONES | REMARKS |
|--------|--------------|--------------|------|-----------------------|-----|---------|------------|------|-------|--|--------|-------|---------|
|        |              |              |      |                       |     | IN W.C. | RPM        | HP   | POWER |  |        |       |         |
| VF-1   | GREENHECK    | SS1-12-432-E | WALL | MECH ROOM VENTILATION | 394 | 0.25    | 1050       | 1/20 | 120/1 |  | DIRECT | 4.5   |         |

LOUVER SCHEDULE

| SYMBOL | MANUFACTURER | MODEL     | SERVICE                | MATERIAL | FINISH   | SIZE (IN.) | REMARKS           |
|--------|--------------|-----------|------------------------|----------|----------|------------|-------------------|
| L-1    | RUSKIN       | ELF6375DX | HRV SUPPLY AIR         | ALUMINUM | PER ARCH | 18"x18"    | DRAINABLE BLADES. |
| L-2    | RUSKIN       | ELF6375DX | HRV/MECH ROOM EXHAUST  | ALUMINUM | PER ARCH | 36"x18"    | DRAINABLE BLADES. |
| L-3    | RUSKIN       | ELF6375DX | MECHANICAL VENTILATION | ALUMINUM | PER ARCH | 18"x18"    | DRAINABLE BLADES. |



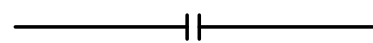
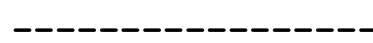
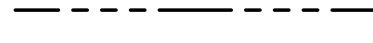
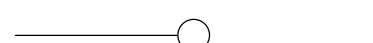
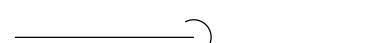
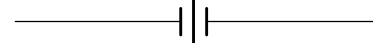
COOK INLET HOUSING AUTHORITY  
SPENARD MIXED USE  
ANCHORAGE, AK

| REVISION SCHEDULE |                      |
|-------------------|----------------------|
| #                 | DESCRIPTION          |
| 1                 | MOA & OWNER COMMENTS |

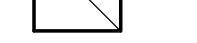
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| JOB NO.                            | L6225.00      |
| DRAWN                              | 4.11.2016 CMR |
| REVIEWED                           | MRF           |
| SHEET NAME<br>MECHANICAL SCHEDULES |               |
| SHEET NO.<br>M.02                  |               |

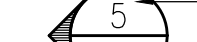
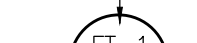
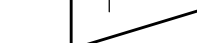
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PERMIT SUBMITTAL

LEGEND

|                                                                                   |                                           |
|-----------------------------------------------------------------------------------|-------------------------------------------|
|  | WASTE                                     |
|  | VENT PIPING                               |
|  | COLD WATER                                |
|  | HOT WATER                                 |
|  | HOT WATER RECIRCULATED                    |
|  | SEE ABBREVIATIONS FOR MEDIA               |
|  | PIPE UP                                   |
|  | PIPE DOWN                                 |
|  | TEE UP                                    |
|  | TEE DOWN                                  |
|  | CAP                                       |
|  | UNION                                     |
|  | DIRECTION OF FLOW                         |
|  | BALL/BUTTERFLY VALVE                      |
|  | GATE VALVE                                |
|  | 2-WAY CONTROL VALVE                       |
|  | 3-WAY CONTROL VALVE                       |
|  | SELF CONTAINED THERMOSTATIC CONTROL VALVE |
|  | CHECK VALVE                               |

|                                                                                    |                                     |
|------------------------------------------------------------------------------------|-------------------------------------|
|  | BALANCE/SHUT-OFF VALVE              |
|  | REDUCED PRESSURE BACKFLOW PREVENTER |
|  | PRESSURE REDUCING VALVE             |
|  | GAS SHUT-OFF VALVE                  |
|  | PRESSURE/TEMPERATURE RELIEF VALVE   |
|  | HOSE BIBB                           |
|  | PUMP                                |
|  | CLEANOUT                            |
|  | THERMOMETER                         |
|  | PRESSURE GAUGE W/ ISOLATION COCK    |
|  | STRAINER W/ BLOWDOWN                |
|  | FLOOR CLEANOUT                      |
|  | FLOOR DRAIN                         |

|                                                                                     |                                                                        |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------|
|  | DDC SENSOR                                                             |
|  | THERMOSTAT                                                             |
|  | SUPPLY AIR UP & DOWN                                                   |
|  | RETURN AIR UP & DOWN                                                   |
|  | EXHAUST AIR UP & DOWN                                                  |
|  | ROUND DUCT UP & DOWN                                                   |
|  | VOLUME DAMPER                                                          |
|  | MOTORIZED CONTROL DAMPER                                               |
|  | SOUND LINED DUCTWORK                                                   |
|  | DUCT SIZE (FIRST FIGURE - SIDE SHOWN) (SECOND FIGURE - SIDE NOT SHOWN) |
|  | INSULATED DUCTWORK                                                     |
|  | FIRE SMOKE DAMPER                                                      |
|  | FLEXIBLE DUCT                                                          |

|                                                                                     |                         |
|-------------------------------------------------------------------------------------|-------------------------|
|  | DETAIL NUMBER           |
|  | SHEET LOCATED ON        |
|  | DIRECTION OF VIEW       |
|  | SECTION NUMBER          |
|  | SHEET LOCATED ON        |
|  | RADIATION DESIGNATOR    |
|  | LENGTH                  |
|  | GPM                     |
|  | SHEET NOTES             |
|  | NECK SIZE               |
|  | CFM                     |
|  | DIFFUSER OR GRILLE TYPE |

ABBREVIATIONS

|        |                                          |        |                                |        |                                   |
|--------|------------------------------------------|--------|--------------------------------|--------|-----------------------------------|
| ADA    | AMERICAN W/ DISABILITIES ACT GUIDELINES  | HC-X   | HEATING COIL DESIGNATOR        | TYP    | TYPICAL                           |
| AMPS   | AMPERES                                  | HD     | HEAD                           | UH-X   | UNIT HEATER DESIGNATOR            |
| APD    | AIR PRESSURE DROP                        | HGR    | HEATING GLYCOL RETURN          | UL     | UNDERWRITERS LABORATORIES         |
| ARCH   | ARCHITECTURAL                            | HGS    | HEATING GLYCOL SUPPLY          | UPC    | UNIFORM PLUMBING CODE             |
| AS-X   | AIR SEPARATOR DESIGNATOR                 | HP     | HORSEPOWER                     | V      | VENT                              |
| ASME   | AMERICAN SOCIETY OF MECHANICAL ENGINEERS | HRU    | HEAT RECOVERY UNIT             | VF-X   | VENTILATION FAN DESIGNATOR        |
| B-X    | BOILER DESIGNATOR                        | HRV    | HEAT RECOVERY VENTILATOR       | VTR    | VENT THRU ROOF                    |
| BLDG   | BUILDING                                 | HW     | HOT WATER                      | WC     | WATER COLUMN                      |
| BTU/HR | BRITISH THERMAL UNIT/HOUR                | HWC    | HOT WATER CIRCULATED           | W      | WASTE                             |
| BTU/LF | BRITISH THERMAL UNIT/LINEAL FOOT         | HWG-X  | HOT WATER GENERATOR DESIGNATOR | WPD    | WATER PRESSURE DROP               |
| BP-X   | BOILER PUMP DESIGNATOR                   | HX-X   | HEAT EXCHANGER DESIGNATOR      | WSHP-X | WATER SOURCE HEAT PUMP DESIGNATOR |
| BT-X   | BUFFER TANK DESIGNATOR                   | IAU-X  | INDOOR AIR UNIT DESIGNATOR     | YCO    | YARD CLEAN OUT                    |
| C/A    | COMBUSTION AIR                           | IN     | INCHES                         |        |                                   |
| CFM    | CUBIC FEET PER MINUTE                    | L-X    | LOUVER DESIGNATOR              |        |                                   |
| CO     | CLEANOUT                                 | LAT    | LEAVING AIR TEMPERATURE        |        |                                   |
| CP-X   | CIRCULATION PUMP DESIGNATOR              | LBS    | POUNDS                         |        |                                   |
| CUH-X  | CABINET UNIT HEATER DESIGNATOR           | LF     | LINEAL FEET                    |        |                                   |
| CW     | COLD WATER                               | LGT    | LEAVING GLYCOL TEMPERATURE     |        |                                   |
| DIA    | DIAMETER                                 | LWT    | LEAVING WATER TEMPERATURE      |        |                                   |
| DEG    | DEGREE                                   | MBH    | THOUSAND BTUH                  |        |                                   |
| DN     | DOWN                                     | MCA    | MAXIMUM CIRCUIT AMPACITY       |        |                                   |
| DWG    | DRAWING                                  | MFCR   | MANUFACTURER                   |        |                                   |
| E/A    | EXHAUST AIR                              | MOP    | MAXIMUM OVERCURRENT PROTECTION |        |                                   |
| EAT    | ENTERING AIR TEMPERATURE                 | NAT    | NATURAL                        |        |                                   |
| ET-X   | EXPANSION TANK DESIGNATOR                | NC     | NOISE CRITERIA                 |        |                                   |
| EWT    | ENTERING WATER TEMPERATURE               | N.C.   | NORMALLY CLOSED                |        |                                   |
| ESP    | EXTERNAL STATIC PRESSURE                 | NO     | NORMALLY OPEN                  |        |                                   |
| EGT    | ENTERING GLYCOL TEMPERATURE              | NSF    | NATIONAL SCIENCE FOUNDATION    |        |                                   |
| FT     | FEET                                     | O/A    | OUTSIDE AIR                    |        |                                   |
| FT-X   | FINNED TUBE RADIATION DESIGNATOR         | OD-X   | OVERFLOW DRAIN DESIGNATOR      |        |                                   |
| FPM    | FEET PER MINUTE                          | P-X    | PLUMBING FIXTURE DESIGNATOR    |        |                                   |
| FPF    | FINS PER FOOT                            | PD     | PRESSURE DROP                  |        |                                   |
| F      | FAHRENHEIT                               | PG     | PROPYLENE GLYCOL               |        |                                   |
| FCO    | FLOOR CLEANOUT                           | PH     | PHASE                          |        |                                   |
| FD-X   | FLOOR DRAIN DESIGNATOR                   | PHC-X  | PRE-HEAT COIL DESIGNATOR       |        |                                   |
| FLA    | FULL LOAD AMPS                           | PSI    | POUND PER SQUARE INCH          |        |                                   |
| FSD    | FIRE SMOKE DAMPER                        | R/A    | RETURN AIR                     |        |                                   |
| GPF    | GALLONS PER FLUSH                        | RHC-X  | RE-HEAT COIL DESIGNATOR        |        |                                   |
| GPH    | GALLONS PER HOUR                         | RPM    | REVOLUTIONS PER MINUTE         |        |                                   |
| GAL    | GALLONS                                  | RD-X   | ROOF DRAIN DESIGNATOR          |        |                                   |
| GPM    | GALLONS PER MINUTE                       | RL     | RAIN LEADER                    |        |                                   |
| GSGR   | GROUND SOURCE GLYCOL RETURN              | S/A    | SUPPLY AIR                     |        |                                   |
| GSGS   | GROUND SOURCE GLYCOL SUPPLY              | SP     | STATIC PRESSURE                |        |                                   |
| GT-X   | GLYCOL TANK DESIGNATOR                   | SP-X   | SUMP PUMP DESIGNATOR           |        |                                   |
| H      | HEIGHT                                   | TSP    | TOTAL STATIC PRESSURE          |        |                                   |
| HB-X   | HOSE BIBB DESIGNATOR                     | T*STAT | THERMOSTAT                     |        |                                   |
|        |                                          | TV-X   | TEMPERING VALVE DESIGNATOR     |        |                                   |



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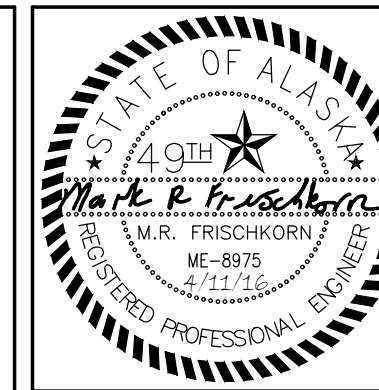
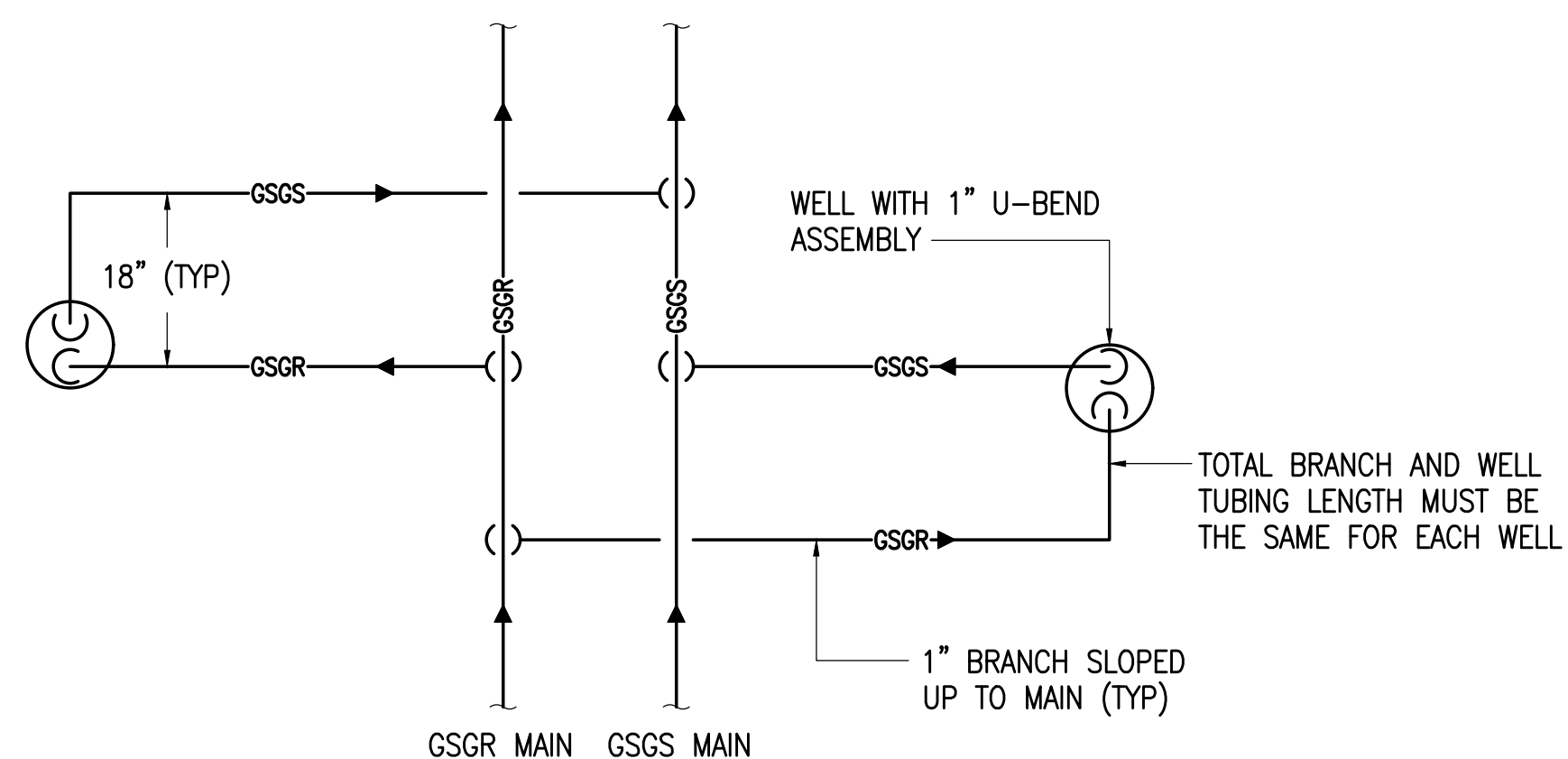
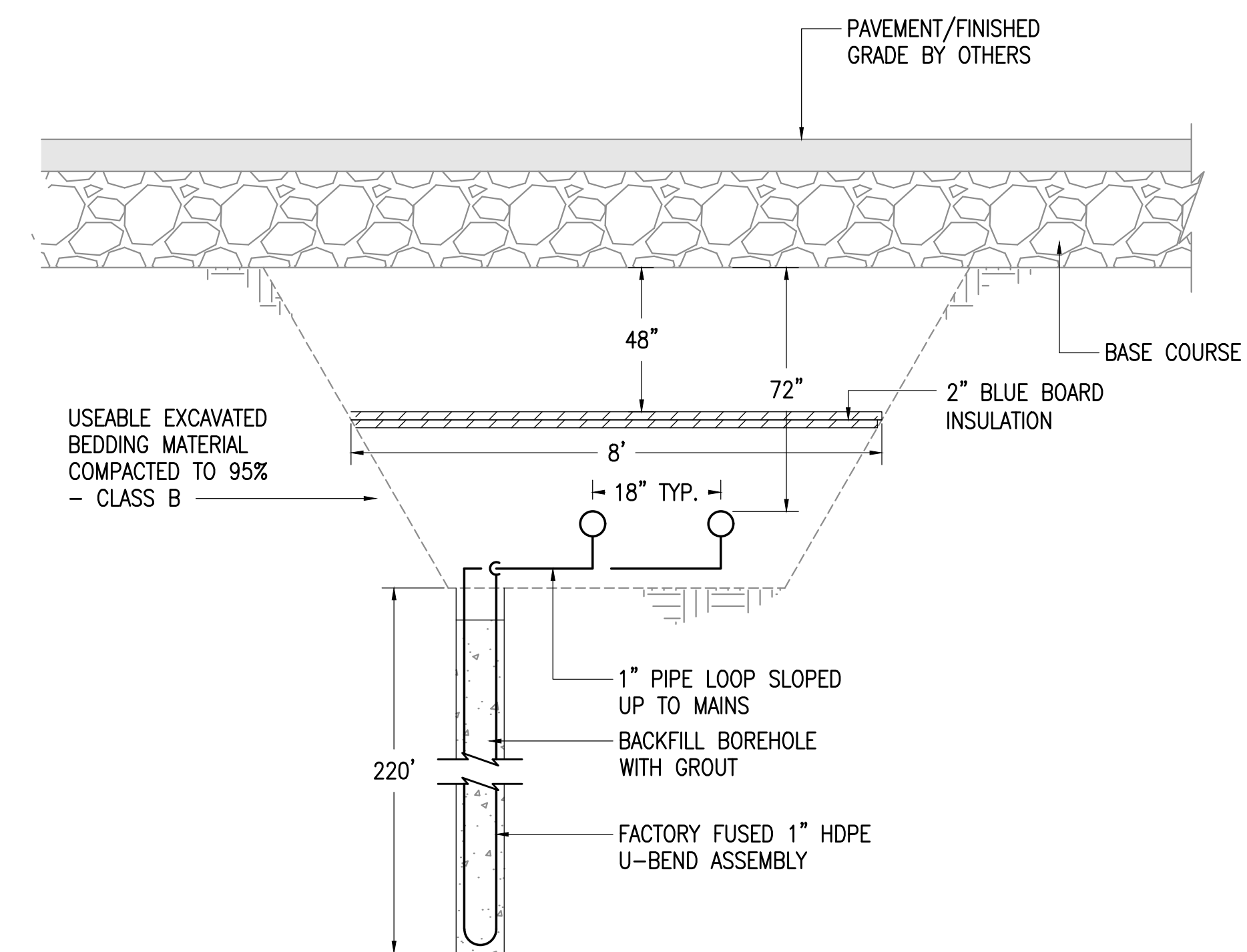
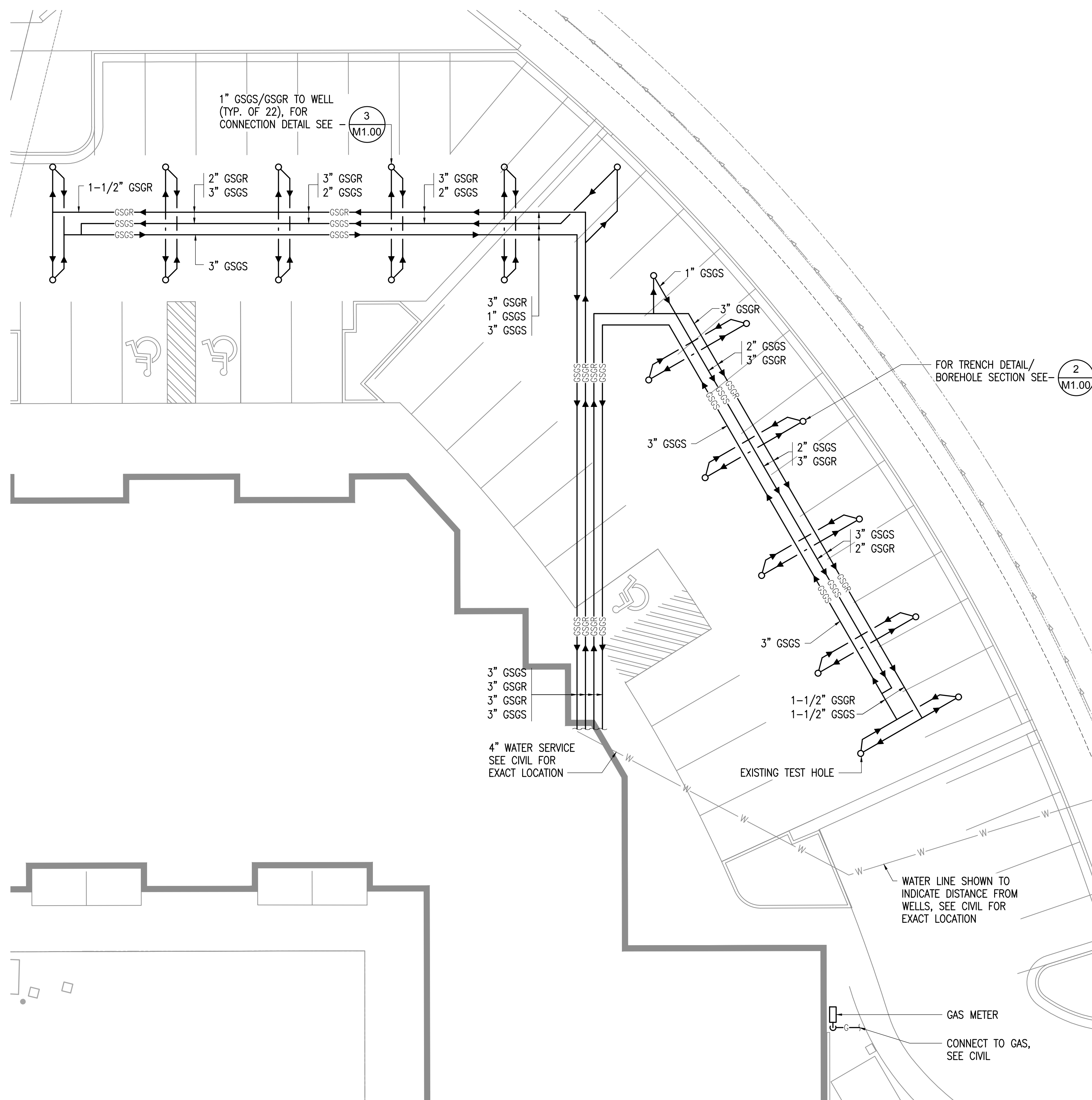
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| #                 | DESCRIPTION | DATE |
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| JOB NO.  | L6225.00      |
| DRAWN    | 4.11.2016 CMR |
| REVIEWED | MRF           |

|            |                         |
|------------|-------------------------|
| SHEET NAME | LEGENDS & ABBREVIATIONS |
|------------|-------------------------|

|           |      |
|-----------|------|
| SHEET NO. | M.04 |
|-----------|------|

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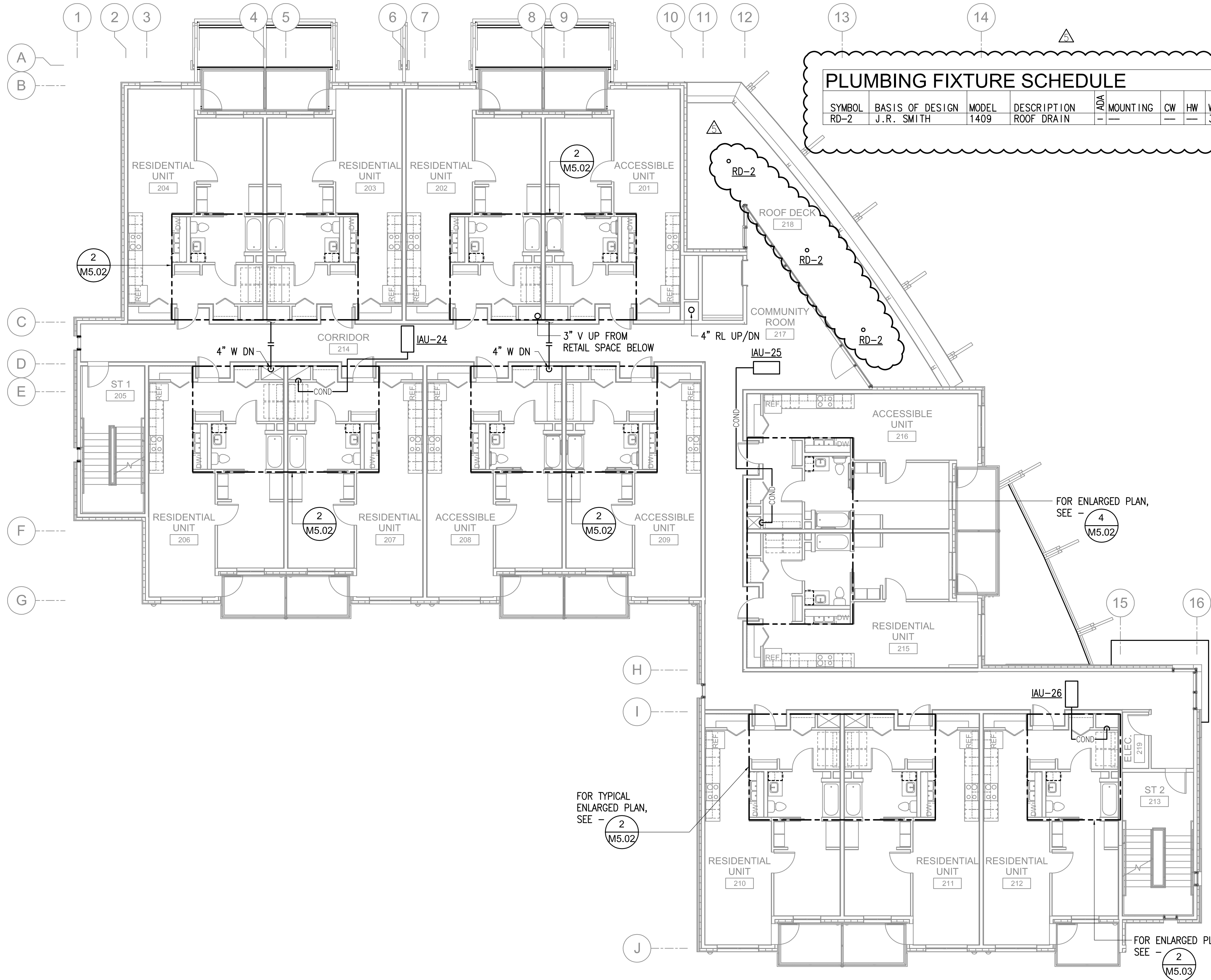
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| DATE     | 4.11.20 |
| DRAWN    | CM      |
| REVIEWED | MI      |

SHEET NAME  
MECHANICAL SITE PLAN -  
WELL FIELD

SHEET NO. **M1.00**

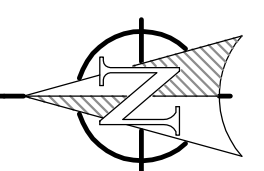
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| PLUMBING FIXTURE SCHEDULE |                 |       |             |     |          |    |    |       |      |                              |       |
|---------------------------|-----------------|-------|-------------|-----|----------|----|----|-------|------|------------------------------|-------|
| SYMBOL                    | BASIS OF DESIGN | MODEL | DESCRIPTION | ADA | MOUNTING | CW | HW | WASTE | VENT | TRAP                         | COLOR |
| RD-2                      | J.R. SMITH      | 1409  | ROOF DRAIN  | 1   | —        | —  | —  | 3     | —    | —                            | —     |
|                           |                 |       |             |     |          |    |    |       |      | TRIM/REMARKS                 |       |
|                           |                 |       |             |     |          |    |    |       |      | SET GRATE AT MEMBRANE LEVEL. |       |

1 MECHANICAL WASTE AND VENT PLAN - LEVEL 2  
1/8" = 1'-0"



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REVISION SCHEDULE

| # | DESCRIPTION | DATE   |
|---|-------------|--------|
| 5 | ADDENDUM#5  | 6/2/16 |

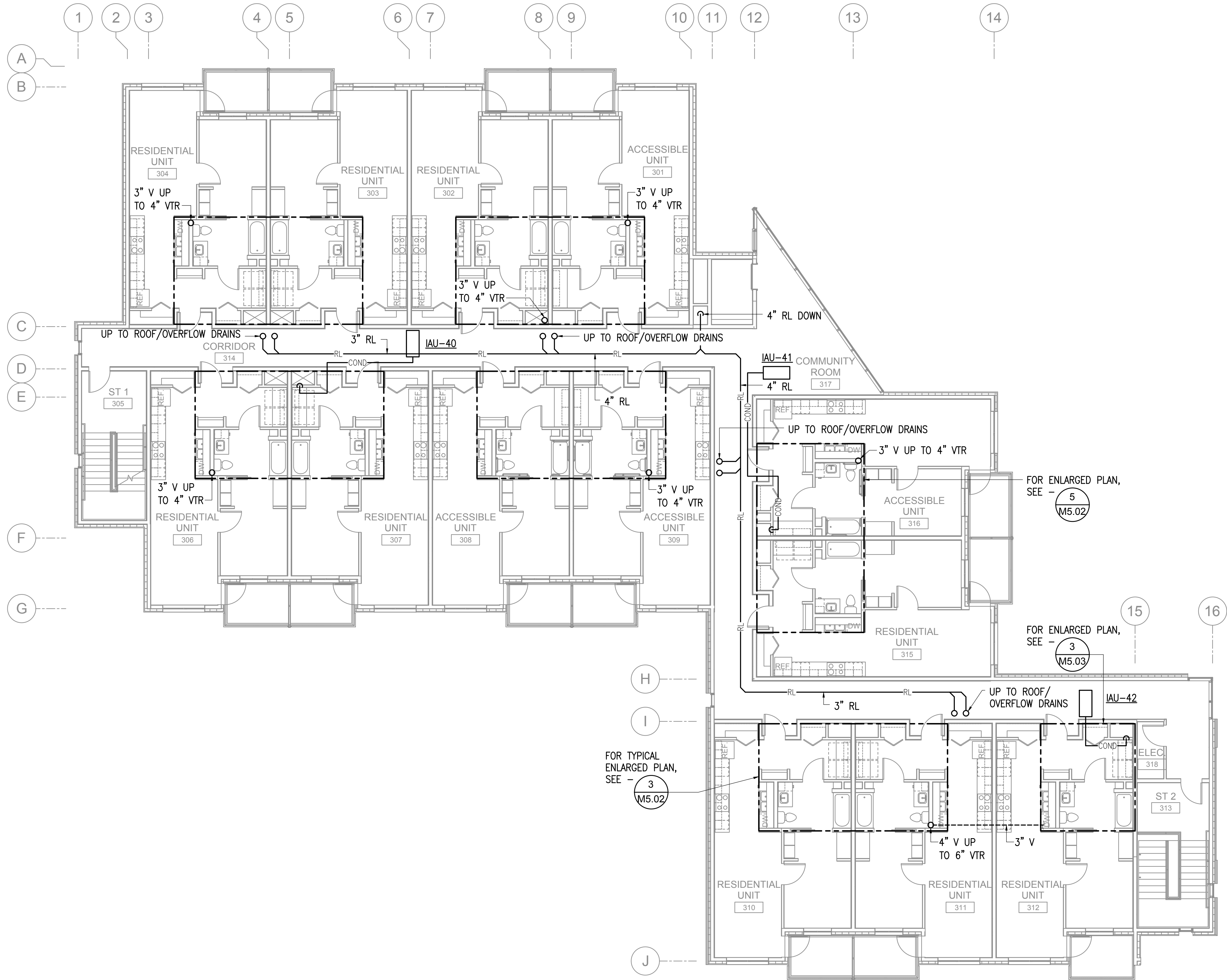
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DATE 4.11.2016  
DRAWN CMR  
REVIEWED MRF

SHEET NAME  
LEVEL 2  
WASTE AND VENT PLAN

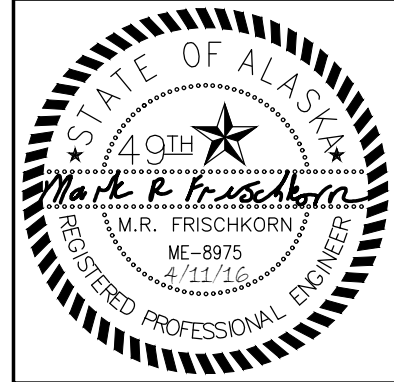
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1 MECHANICAL WASTE AND VENT PLAN - LEVEL 3  
1/8" = 1'-0"



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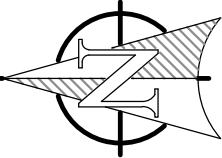
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| DATE     | 4.11.2016 |
| DRAWN    | CMR       |
| REVIEWED | MRF       |

|            |                                |
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| SHEET NAME | LEVEL 3<br>WASTE AND VENT PLAN |
|------------|--------------------------------|

|           |       |
|-----------|-------|
| SHEET NO. | M1.03 |
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1/8" = 1'-0"

1. PROVIDE NFPA 13 WET FIRE SPRINKLER SYSTEM.
2. PROTECT CANOPY WITH DRY HEADS FROM WET SYSTEM.



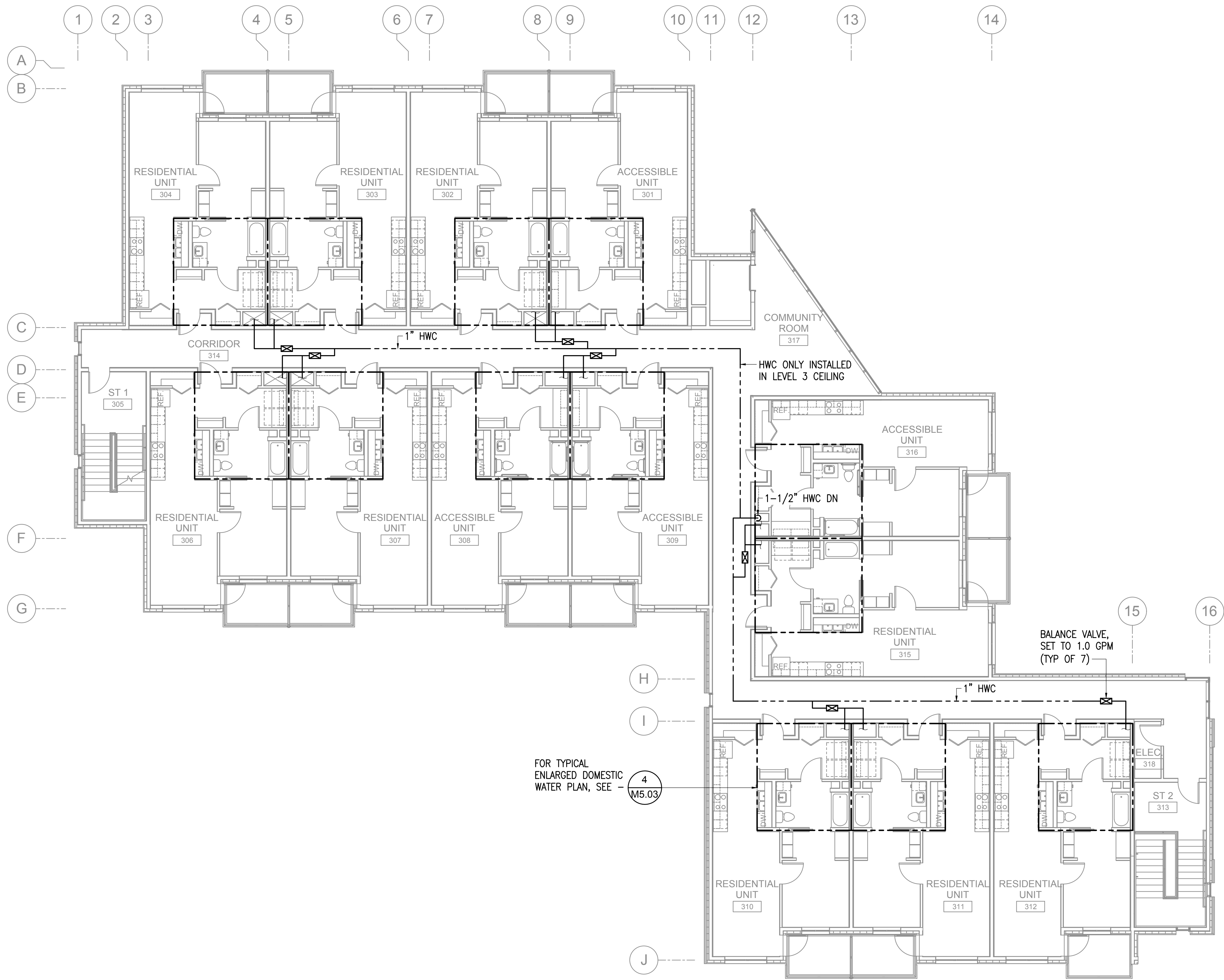
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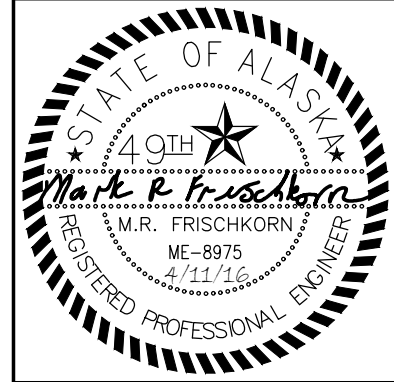
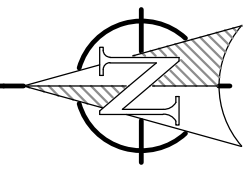
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| REVISION SCHEDULE   |             |      |
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| JOB NO.             | L5225.00    |      |
| DATE                | 4.11.2016   |      |
| DRAWN               | CMR         |      |
| REVIEWED            | MRG         |      |
| SHEET NAME          |             |      |
| LEVEL 1             |             |      |
| DOMESTIC WATER PLAN |             |      |
| SHEET NO.           |             |      |
| M1.04               |             |      |

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1 MECHANICAL DOMESTIC WATER PLAN - LEVELS 2 AND 3  
1/8" = 1'-0"



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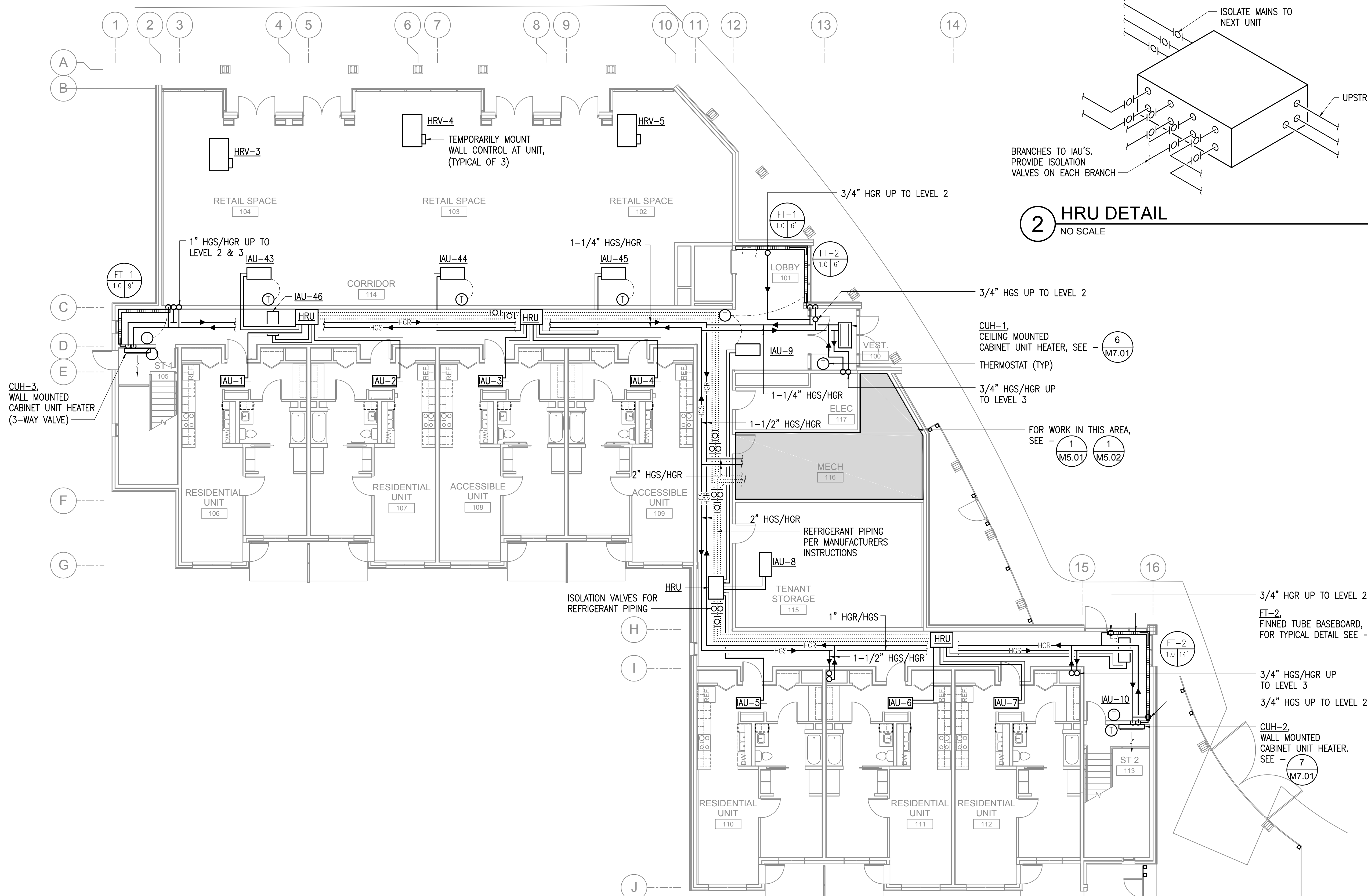
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| DATE     | 4.11.2016 |
| DRAWN    | CMR       |
| REVIEWED | MRF       |

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| SHEET NAME | LEVELS 2 AND 3<br>DOMESTIC WATER PLAN |
|------------|---------------------------------------|

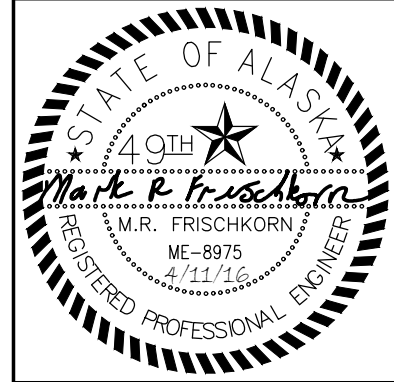
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**1 MECHANICAL HEATING PLAN - LEVEL 1**  
1/8" = 1'-0"

**2 HRU DETAIL**  
NO SCALE



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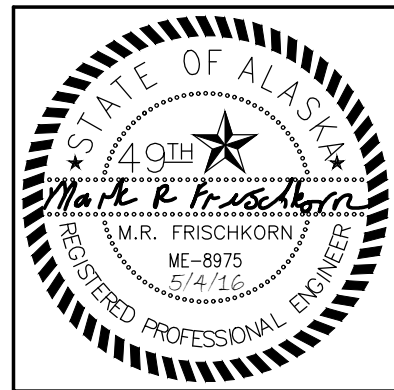
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| DATE     | 4.11.2016 |
| DRAWN    | CMR       |
| REVIEWED | MRF       |

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| SHEET NAME | LEVEL 1<br>HEATING PLAN |
|------------|-------------------------|

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|-----------|-------|
| SHEET NO. | M2.01 |
|-----------|-------|

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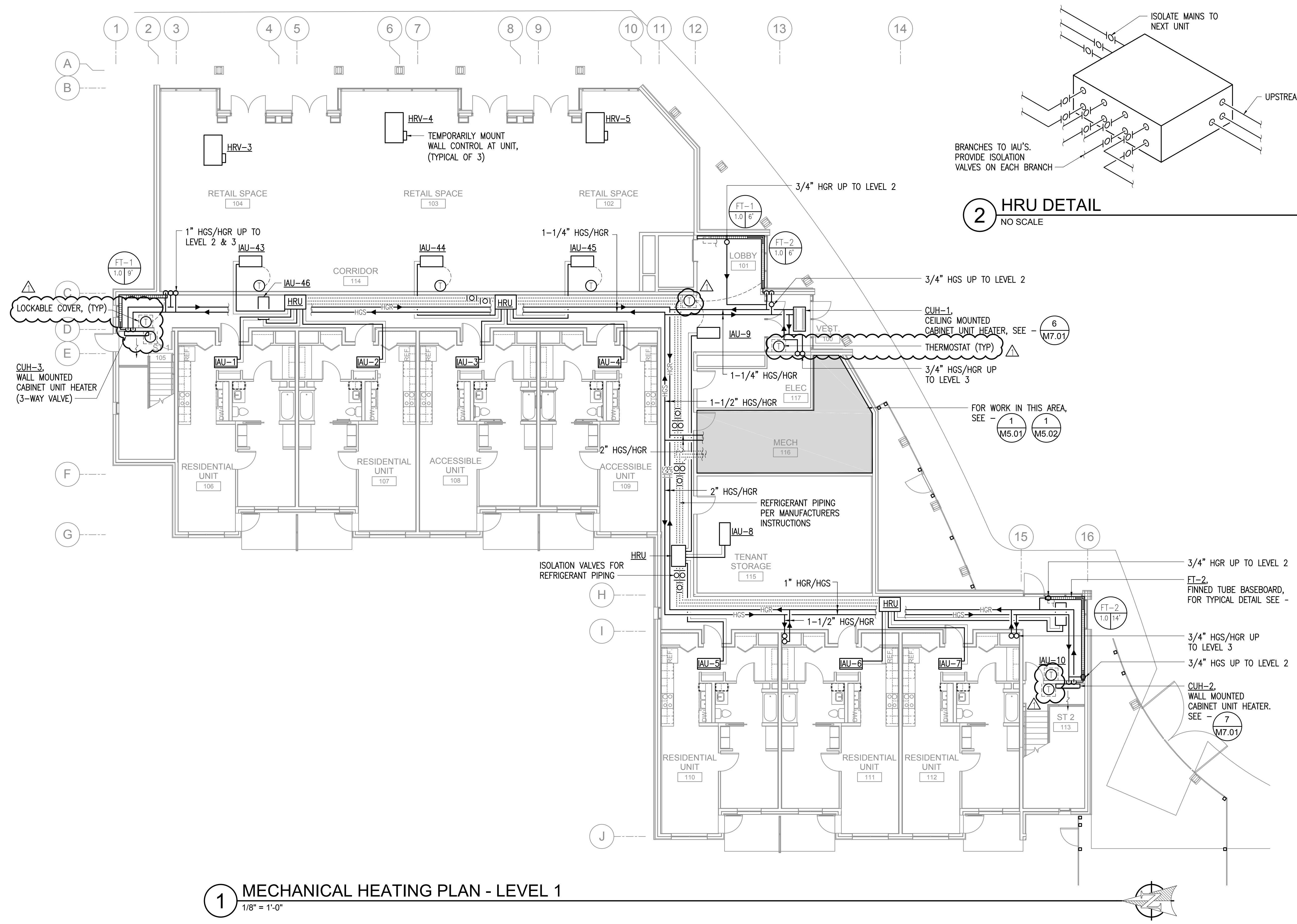
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| 1                 | MOA & OWNER COMMENTS | 5/4/16 |

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| JOB NO.  | L6225.00  |
| DATE     | 4.11.2016 |
| DRAWN    | CMR       |
| REVIEWED | MRF       |

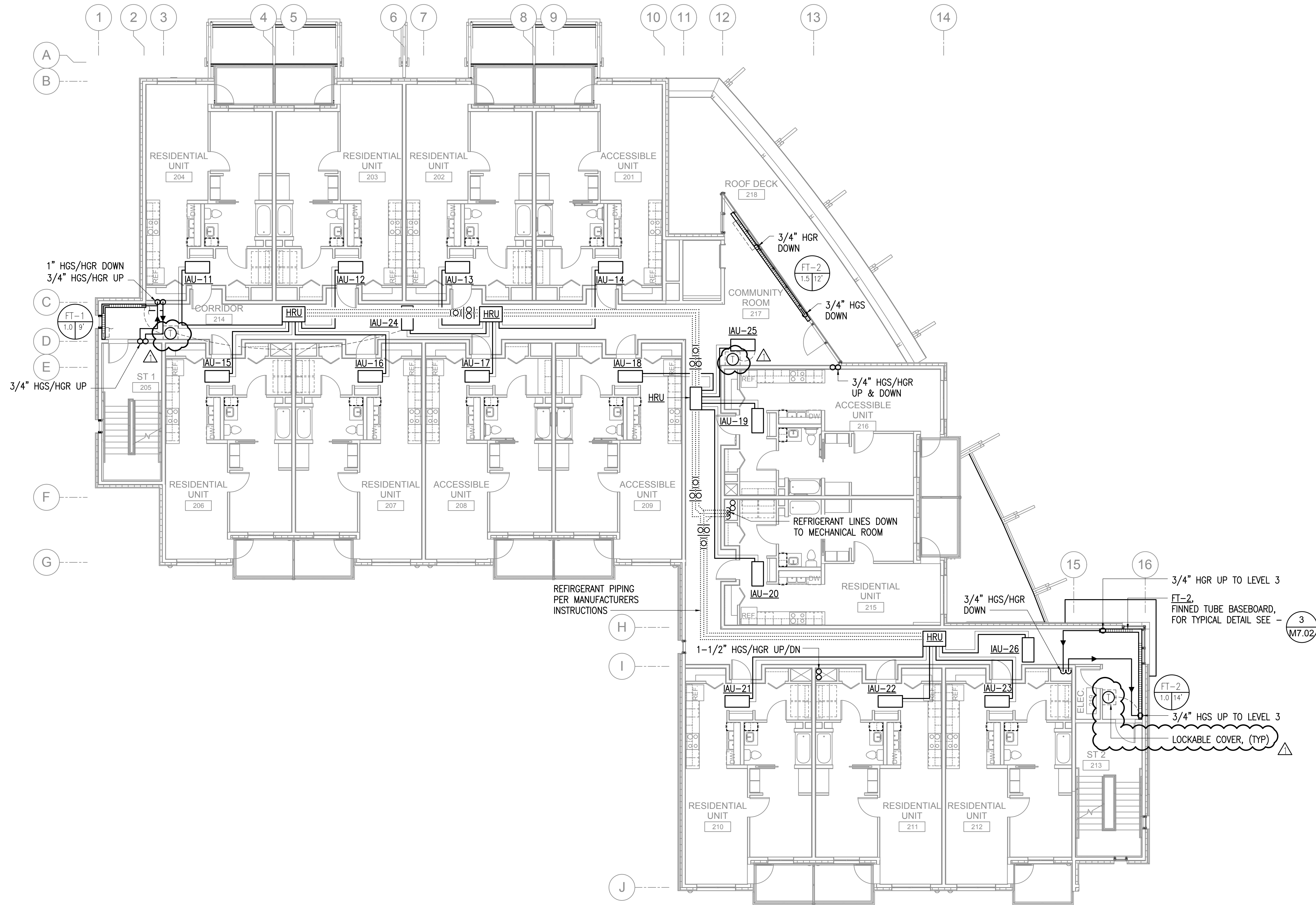
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| SHEET NAME | LEVEL 1 HEATING PLAN |
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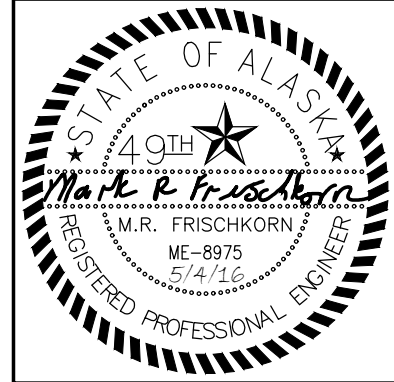
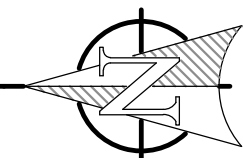
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**1 MECHANICAL HEATING PLAN - LEVEL 1**  
1/8" = 1'-0"



**1 MECHANICAL HEATING PLAN - LEVEL 2**  
1/8" = 1'-0"



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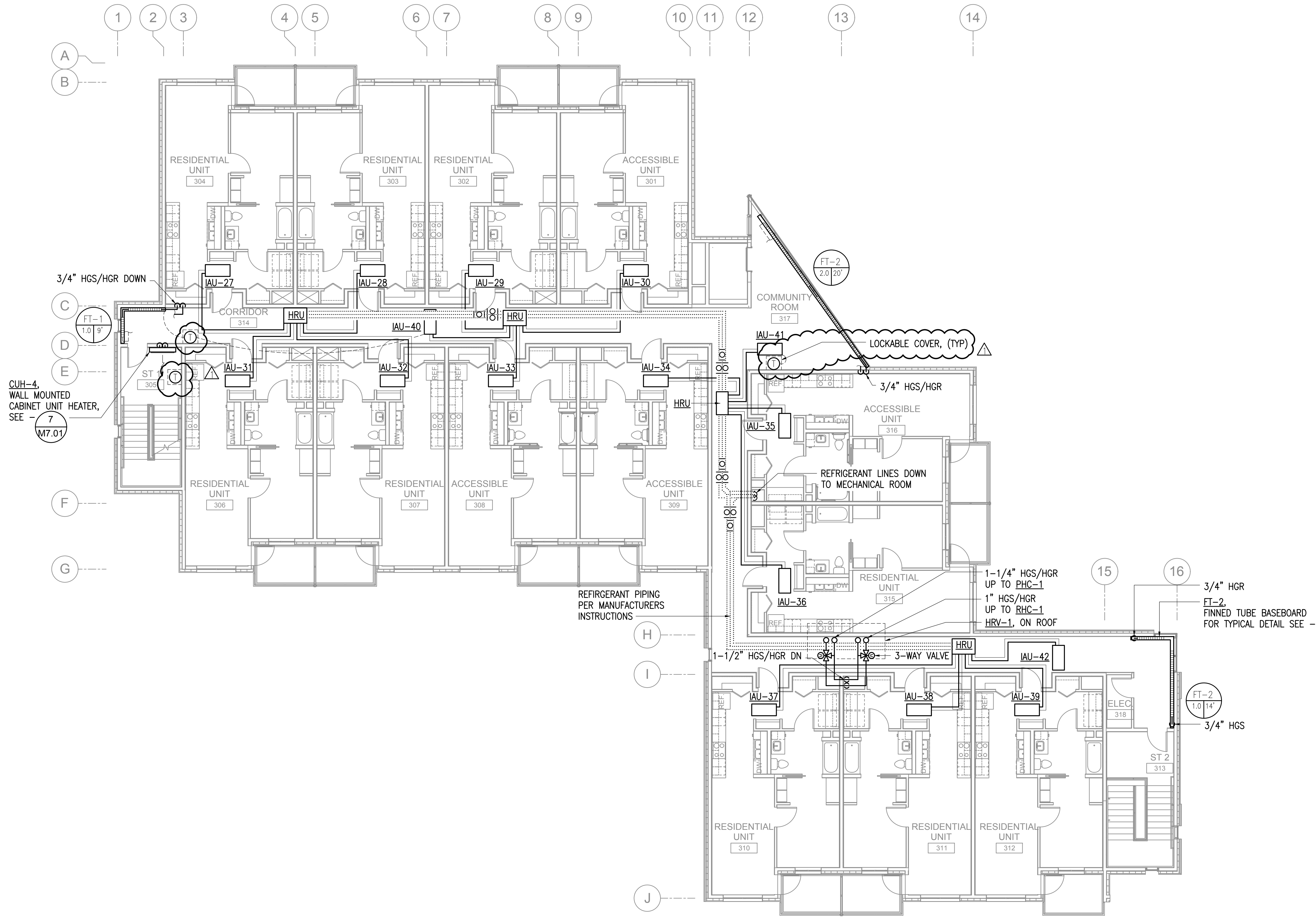
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| 1         | MOA & OWNER COMMENTS | 5/4/16 |

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| DATE     | 4.11.2016 |
| DRAWN    | CMR       |
| REVIEWED | MRF       |

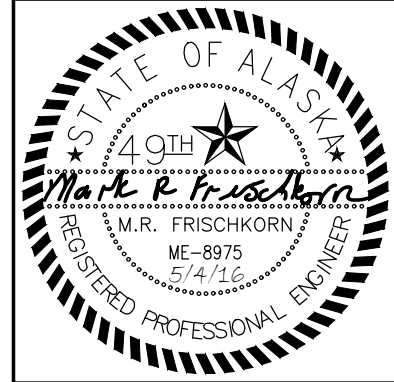
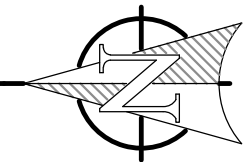
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| SHEET NAME | LEVEL 2 HEATING PLAN |
|------------|----------------------|

|           |       |
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|-----------|-------|

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1 MECHANICAL HEATING PLAN - LEVEL 3  
1/8" = 1'-0"



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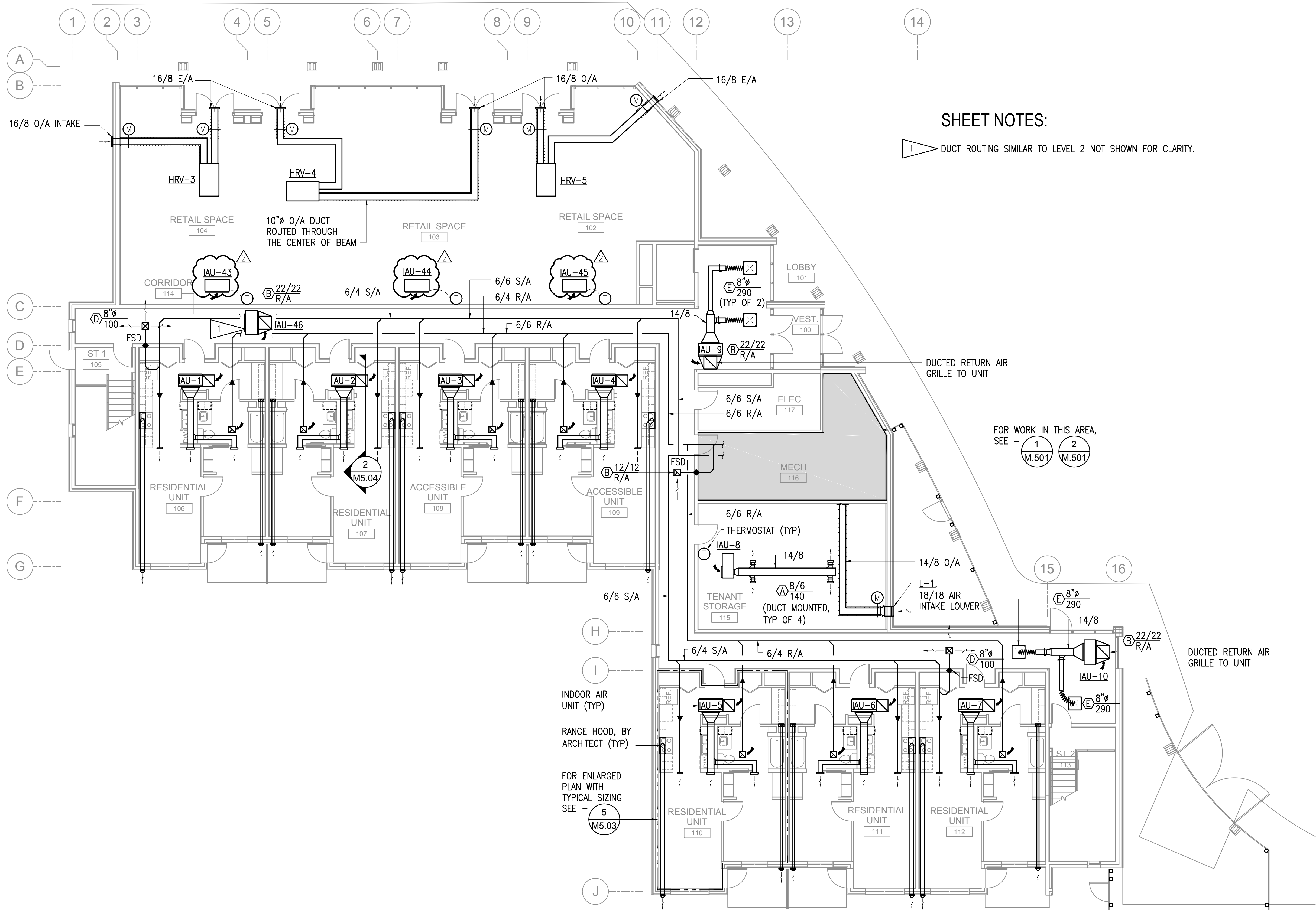
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| #                 | DESCRIPTION          | DATE   |
| 1                 | MOA & OWNER COMMENTS | 5/4/16 |

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| JOB NO.  | L6225.00  |
| DATE     | 4.11.2016 |
| DRAWN    | CMR       |
| REVIEWED | MRF       |

|            |                      |
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| SHEET NAME | LEVEL 3 HEATING PLAN |
|------------|----------------------|

|           |       |
|-----------|-------|
| SHEET NO. | M2.03 |
|-----------|-------|

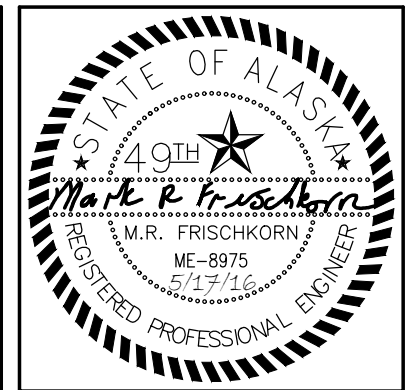
**RSA Engineering, Inc.**  
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS  
670 West Fireweed Lane, Suite 200 • Anchorage, AK 99503 • (907) 276-0521  
191 East Swanson Ave., Suite 101 • Wasilla, AK 99654 • (907) 357-1521  
PERMIT SUBMITTAL



**SHEET NOTES:**

1 DUCT ROUTING SIMILAR TO LEVEL 2 NOT SHOWN FOR CLARITY.

**1 MECHANICAL VENTILATION PLAN - LEVEL 1**  
1/8" = 1'-0"



**KPB ARCHITECTS**  
M.R. FRISCHKORN  
REGISTERED PROFESSIONAL ARCHITECT  
ANCHORAGE, AK 99501  
100 L STREET, SUITE 400  
ANCHORAGE, AK 99501  
(907) 276-7443  
WWW.KPBARCHITECTS.COM

**COOK INLET HOUSING AUTHORITY  
SPENARD MIXED USE  
ANCHORAGE, AK**

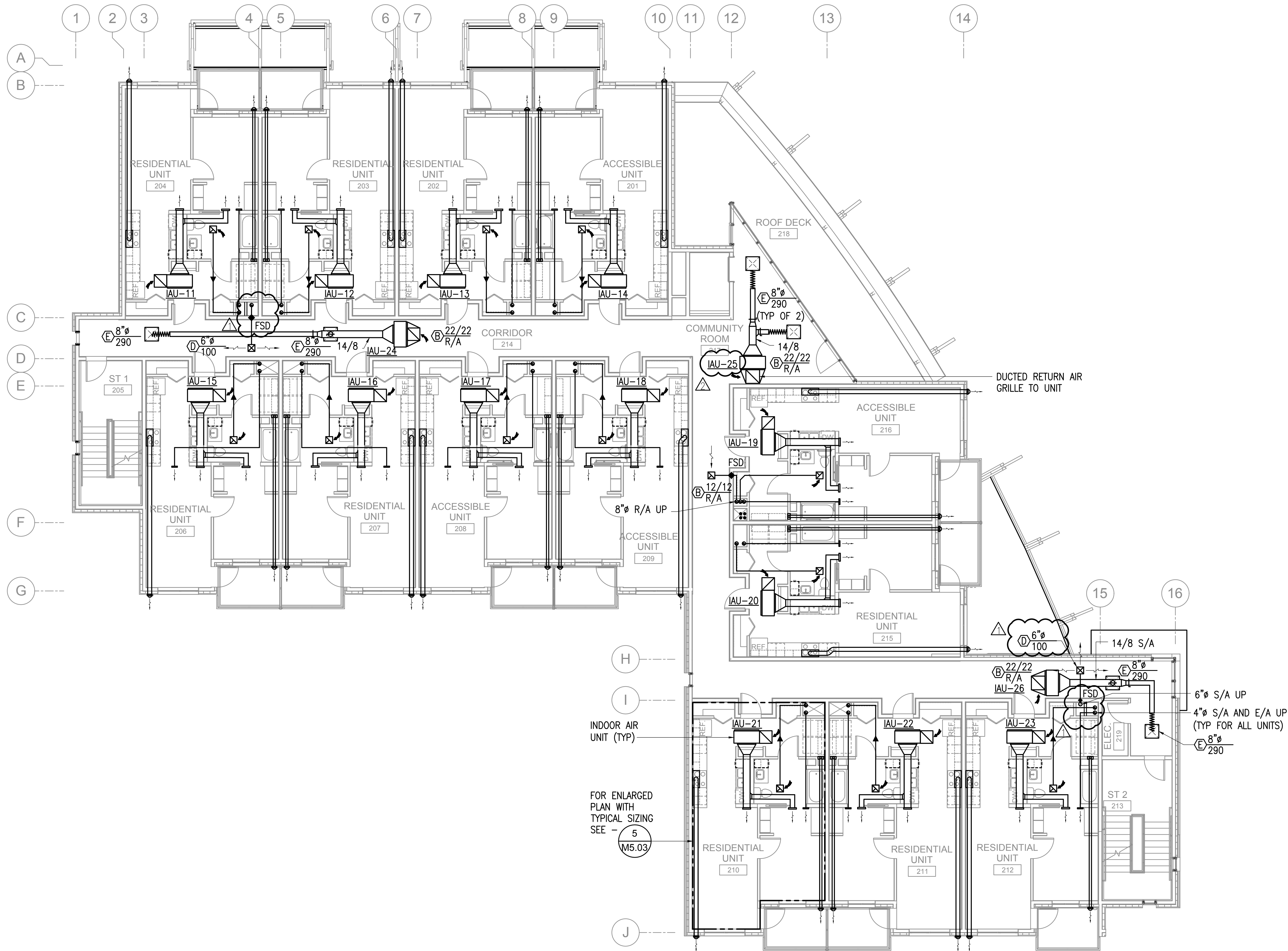
| REVISION SCHEDULE |                |         |
|-------------------|----------------|---------|
| #                 | DESCRIPTION    | DATE    |
| 1                 | DRAWING CHANGE | 5/17/16 |

|          |           |
|----------|-----------|
| JOB NO.  | L6225.00  |
| DATE     | 4.11.2016 |
| DRAWN    | CMR       |
| REVIEWED | MRF       |

|            |                             |
|------------|-----------------------------|
| SHEET NAME | LEVEL 1<br>VENTILATION PLAN |
|------------|-----------------------------|

|           |       |
|-----------|-------|
| SHEET NO. | M3.01 |
|-----------|-------|

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**1 MECHANICAL VENTILATION PLAN - LEVEL 2**  
1/8" = 1'-0"



**KPB ARCHITECTS**  
K.P. BARNES  
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**COOK INLET HOUSING AUTHORITY  
SPENARD MIXED USE  
ANCHORAGE, AK**

| REVISION SCHEDULE |                      |         |
|-------------------|----------------------|---------|
| #                 | DESCRIPTION          | DATE    |
| 1                 | MOA & OWNER COMMENTS | 5/4/16  |
| 2                 | DRAWING CHANGE       | 5/17/16 |

|          |           |
|----------|-----------|
| JOB NO.  | L6225.00  |
| DATE     | 4.11.2016 |
| DRAWN    | CMR       |
| REVIEWED | MRF       |

|            |                          |
|------------|--------------------------|
| SHEET NAME | LEVEL 2 VENTILATION PLAN |
|------------|--------------------------|

|           |       |
|-----------|-------|
| SHEET NO. | M3.02 |
|-----------|-------|

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