## 2012 INTERNATIONAL ENERGY CONSERVATION CODE COMPLIANCE NOTES

- 1. ALL EQUIPMENT AND SYSTEMS MUST BE SIZED TO BE NO GREATER THAN NEEDED TO MEET
- CALCULATED LOADS EACH HEATING OR COOLING SYSTEM SERVING A SINGLE ZONE MUST HAVE ITS OWN TEMPERATURE CONTROL DEVICE
- DESIGN HEATING AND COOLING LOADS FOR THE BUILDING MUST BE DETERMINED USING PROCEDURES IN THE ASHRAE HANDBOOK OF FUNDAMENTALS OR AN APPROVED EQUIVALENT CALCULATION
- PROCEDURE THE SYSTEM OR ZONE CONTROL MUST BE A PROGRAMMABLE THERMOSTAT OR OTHER AUTOMATIC CONTROL MEETING THE FOLLOWING CRITERIA:
- CAPABLE OF SETTING BACK TEMPERATURE TO 55°F DURING HEATING AND SETTING UP TO 85°F DURING COOLING • CAPABLE OF AUTOMATICALLY SETTING BACK OR SHUTTING DOWN SYSTEMS DURING UNOCCUPIED HOURS USING 7 DIFFERENT DAY SCHEDULES
- HAVE AN ACCESSIBLE 2-HOUR OCCUPANT OVERRIDE • HAVE A BATTERY BACK-UP CAPABLE OF MAINTAINING PROGRAMMED SETTINGS FOR AT LEAST 10
- HOURS WITHOUT POWER. 6. THE SYSTEM MUST SUPPLY OUTSIDE VENTILATION AIR AS REQUIRED BY CHAPTER 4 OF THE INTERNATIONAL MECHANICAL CODE, IF THE VENTILATION SYSTEM IS DESIGNED TO SUPPLY
- OUTDOOR-AIR QUANTITIES EXCEEDING MINIMUM REQUIRED LEVELS, THE SYSTEM MUST BE CAPABLE OF REDUCING OUTDOOR-AIR FLOW TO THE MINIMUM REQUIRED LEVELS AIR DUCTS MUST BE INSULATED TO THE FOLLOWING LEVELS:
- SUPPLY AND RETURN AIR DUCTS FOR CONDITIONED AIR LOCATED IN UNCONDITIONED SPACES (SPACES NEITHER HEATED NOR COOLED) MUST BE INSULATED WITH A MINIMUM OF R-6. UNCONDITIONED SPACES INCLUDE ATTICS, CRAWL SPACES, UNHEATED BASEMENTS, AND UNHEATED GARAGES
- SUPPLY AND RETURN AIR DUCTS AND PLENUMS MUST BE INSULATED TO A MINIMUM OF R-8 WHEN LOCATED OUTSIDE THE BUILDING
- WHEN DUCTS ARE LOCATED WITHIN EXTERIOR COMPONENTS (E.G., FLOORS OR ROOFS), MINIMUM R-8 INSULATION IS REQUIRED ONLY BETWEEN THE DUCT AND THE BUILDING EXTERIOR EXCEPTION(S):
- DUCT INSULATION IS NOT REQUIRED ON DUCTS LOCATED WITHIN EQUIPMENT DUCT INSULATION IS NOT REQUIRED WHEN THE DESIGN TEMPERATURE DIFFERENCE BETWEEN THE INTERIOR AND EXTERIOR OF THE DUCT OR PLENUM DOES NOT EXCEED 15'F. MECHANICAL FASTENERS AND SEALS, MASTICS, OR GASKETS MUST BE USED WHEN CONNECTING DUCTS TO FANS AND OTHER AIR DISTRIBUTION EQUIPMENT, INCLUDING MULTIPLE-ZONE TERMINAL
- UNITS 9. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK MUST BE SECURELY SEALED USING WELDMENTS; MECHANICAL FASTENERS WITH SEALS, GASKETS, OR MASTICS; MESH AND MASTIC SEALING SYSTEMS; OR TAPES. TAPES AND MASTICS MUST BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A AND SHALL BE MARKED '181A-P' FOR PRESSURE SENSITIVE TAPE, '181A-M' FOR MASTIC OR '181A-H' FOR HEAT-SENSITIVE TAPE. TAPES AND MASTICS USED TO SEAL FLEXIBLE AIR DUCTS AND FLEXIBLE AIR CONNECTORS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED '181B-FX' FOR PRESSURE-SENSITIVE TAPE OR '181B-M' FOR MASTIC. UNLISTED DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS. EXCEPTION(S):
- CONTINUÓUSLY WELDED AND LOCKING-TYPE LONGITUDINAL JOINTS AND SEAMS ON DUCTS OPERATING AT STATIC PRESSURES LESS THAN 2 INCHES W.G. PRESSURE CLASSIFICATION 10. ALL PIPES SERVING SPACE-CONDITIONING SYSTEMS MUST BE INSULATED AS FOLLOWS:
- HOT WATER PIPING FOR HEATING SYSTEMS: 1 1/2 IN. FOR PIPES  $\leq 1 1/2 - IN$ . NOMINAL DIAMETER,
- 2 IN. FOR PIPES >1 1/2-IN. NOMINAL DIAMETER.
- CHILLED WATER, REFRIGERANT, AND BRINE PIPING SYSTEMS: 1 1/2 IN. INSULATION FOR PIPES  $\leq 1 1/2$ -IN. NOMINAL DIAMETER, 1 1/2 IN. INSULATION FOR PIPES >1 1/2-IN. NOMINAL DIAMETER. EXCEPTION(S):
- PIPE INSULATION IS NOT REQUIRED FOR FACTORY-INSTALLED PIPING WITHIN HVAC EQUIPMENT
- PIPE INSULATION IS NOT REQUIRED FOR PIPING THAT CONVEYS FLUIDS HAVING A DESIGN OPERATING TEMPERATURE RANGE BETWEEN 55°F AND 105°F
- PIPE INSULATION IS NOT REQUIRED FOR PIPING THAT CONVEYS FLUIDS THAT HAVE NOT BEEN HEATED OR COOLED THROUGH THE USE OF FOSSIL FUELS OR ELECTRIC POWER
- PIPING WITHIN ROOM FAN-COIL (WITH AHRI440 RATING) AND UNIT VENTILATORS (WITH AHRI840 RATING)
- PIPE INSULATION IS NOT REQUIRED FOR RUNOUT PIPING NOT EXCEEDING 4 FT IN LENGTH AND 1 IN. IN DIAMETER BETWEEN THE CONTROL VALVE AND HVAC COIL 11. OPERATION AND MAINTENANCE DOCUMENTATION MUST BE PROVIDED TO THE OWNER THAT INCLUDES AT LEAST THE FOLLOWING INFORMATION:
- EQUIPMENT CAPACITY (INPUT AND OUTPUT) AND REQUIRED MAINTENANCE ACTIONS EQUIPMENT OPERATION AND MAINTENANCE MANUALS
- HVAC SYSTEM CONTROL MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING
- DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCE • DESCRIPTIONS; DESIRED OR FIELD-DETERMINED SET POINTS MUST BE PERMANENTLY RECORDED ON CONTROL DRAWINGS, AT CONTROL DEVICES, OR, FOR DIGITAL
- CONTROL SYSTEMS, IN PROGRAMMING COMMENTS • COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE.
- 12. THERMOSTATS CONTROLLING BOTH HEATING AND COOLING MUST BE CAPABLE OF MAINTAINING A 5°F DEADBAND (A RANGE OF TEMPERATURE WHERE NO HEATING OR COOLING IS PROVIDED). EXCEPTION(S):
- DEADBAND CAPABILITY IS NOT REQUIRED IF THE THERMOSTAT DOES NOT HAVE AUTOMATIC CHANGEOVER CAPABILITY BETWEEN HEATING AND COOLING
- SPECIAL OCCUPANCY OR SPECIAL APPLICATIONS WHERE WIDE TEMPERATURE RANGES ARE NOT ACCEPTABLE AND ARE APPROVED BY THE AUTHORITY HAVING JURISDICTION 13. BALANCING DEVICES PROVIDED IN ACCORDANCE WITH IMC (2009). ALL AIR & WATER BALANCING & TESTING SHALL BE DONE BY AN INDEPENDENT CONTRACTOR. MECHANICAL CONTRACTOR IS
- RESPONSIBLE FOR AIR BALANCING COST 14. A COPY OF A TEST & BALANCE REPORT. PERFORMED BY A THIRD PARTY, CERTIFIED TEST & BALANCE CONTRACTOR, SHALL BE SUBMITTED TO THE COUNTY PRIOR TO THE FINAL INSPECTION
- 15. DEMAND CONTROL VENTILATION (DCV) REQUIRED FOR HIGH DESIGN OCCUPANCY AREAS (>40 PERSON/1000 FT2 IN SPACES >500 FT2) AND SERVED BY SYSTEMS WITH ANY ONE OF • AN AIR-SIDE ECONOMIZER, 2) AUTOMATIC MODULATING CONTROL OF THE OUTDOOR AIR DAMPER,
- OR 3) A DESIGN OUTDOOR • AIRFLOW GREATER THAN 3000 CFM.

## GENERAL NOTES

- REGULATE CONSTRUCTION WITHIN THE CITY OF ELGIN
- 3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY CONSTRUCTION
- 4. NO WORK SHALL BE DONE WITHOUT PERMIT FROM THE CITY OF Elgin
- KNOW THE SAME VIOLATES THE CITY OF EIgin BUILDING CODES, THEN THE
- CONTRACTOR WILL HAVE TO REDO ALL SUCH WORK AT THEIR EXPENSE 6. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LAYOUT AND LOCATIONS OF PIPES & DUCTS. CONTRACTOR SHALL COORDINATE ALL WORK IN FIELD WITH
- DUCTS
- FABRICATED AND INSTALLED PER SMACNA & ASHRAE STANDARDS 8. ALL DUCTS DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS
- RATED WALLS, FLOORS, CEILINGS AND SHAFTS
- EXCEED 6 FEET
- 11. SUPPORT METAL DUCTS EVERY 10'-0" PER IMC 2009 12. SUPPORT FLEXIBLE DUCTS PER FLEXIBLE MANUFACTURERS RECOMMENDATIONS
- 13. OUTSIDE AIR INTAKE DUCTS SHALL BE MINIMUM 10'-0" FROM ANY EXHAUST, PLUMBING VENTS OR ANY CONTAMINANTS
- 14. ALL ROTATING EQUIPMENT SHALL BE INSTALLED WITH VIBRATION ISOLATORS AND PROVIDED WITH FLEXIBLE DUCT CONNECTIONS
- LOCATED ABOVE INACCESSIBLE CEILINGS. COORDINATE WITH THE ARCHITECT FOR
- THE LOCATION OF THE ACCESS DOORS 16. ACTUAL LOCATION OF ALL THERMOSTATS SHALL BE COORDINATED IN FIELD
- ENTIRE TEMPERATURE CONTROLS WIRING SHALL BE IN CONDUIT
- BALANCING SHALL BE DONE BY AN INDEPENDENT CONTRACTOR 19. CHECK, ADJUST AND START ALL HVAC EQUIPMENT PER MANUFACTURER'S
- RECOMMENDATIONS
- CLASS (LOW)
- BEFORE APPLYING INSULATION. 22. PROVIDE AS-BUILT DRAWINGS AT THE END OF INSTALLATION
- ← SHEET KEY NOTES 1. FURNISH NEW HVAC EQUIPMENT PER SCHEDULE 2. HVAC CONTRACTOR SHALL COORDINATE WITHE THE OTHER DRAWING AND PROVIDE THE CONCRETE PAD FOR NEW CONDENSING UNITS 3. FURNISH AND INSTALL NEW SUPPLY AIR DIFFUSER TO THE NEW LOCATION AS SHOWN. REWORK, MODIFY & EXTEND EXISTING DUCT AS REQUIRED AND CONNECT TO THE NEW SUPPLY AND RETURN DIFFUSER. BALANCE SUPPLY AIR TO CFM SHOWN 4. PROVIDE NEW EXHAUST AIR GRILLE. GRILLE TO MATCH
- EXISTING BUILDING STANDARD. PROVIDE NEW 6"Ø DIA EXHAUST AIR DUCT AND CONNECT TO THE EXHAUST AIR MAIN AS SHOWN. AIR BALANCE GRILLE TO CFM SHOWN . REPLACE EXISTING ROOF EXHAUST FANS AS SHOWN.
- 6. PROVIDE NEW THERMOSTAT AS SHOWN. REWORK, MODIFY & EXTEND EXISTING CONTROL WIRING AS REQUIRED AND CONNECT TO NEW THERMOSTAT. VERIFY IN FIELD.
- . HVAC CONTRACTOR SHALL VERIFY THE EXISTING FIRST FLOOR RETURN FLOOR MOUNT REGISTER AND REUSE THE LOCATION TO AVOID ANY NEW FLOOR CUTTING.
- 8. HVAC CONTRACTOR SHALL SUBMIT THE SHOP DRAWING PRIOR TO ANY MODIFICATION.

1. ALL WORK SHALL BE DONE TO MEET OR EXCEED ALL APPLICABLE CODES THAT 2. CITY OF ELGIN CURRENTLY FOLLOWS 2012 INTERNATIONAL MECHANICAL CODE

PERMITS FROM THE CITY OF Elgin PARK PRIOR TO STARTING WORK 5. IF THE CONTRACTOR PERFORMS ANY WORK KNOWINGLY, OR HAVING REASONS TO OTHER TRADES FOR INTERFERENCES PRIOR TO INSTALLING EQUIPMENT, PIPES &

7. ALL NEW DUCTS SHALL BE MADE OUT OF GALVANIZED STEEL AND SHALL BE 9. PROVIDE 2 HR RATED FIRE DAMPERS IN ALL DUCTS PENETRATING 2 HR FIRE

10. FLEXIBLE DUCTS SHALL BE PER NFPA 90A. FLEXIBLE DUCT LENGTHS SHALL NOT

15. PROVIDE ACCESS DOORS FOR SERVICE AND MAINTENANCE OF ALL EQUIPMENT

17. THIS CONTRACTOR IS RESPONSIBLE FOR ALL TEMPERATURE CONTROLS WIRING. 18. TEST AND BALANCE ALL AIR SYSTEMS PER AABC OR NEBB REQUIREMENTS. ALL

20. SEAL DUCTWORK ACCORDING TO SMACNA GUIDELINES AND AS PER PRESSURE

21. CALL THE OWNER'S REP FOR VISUAL INSPECTIONS OF DUCTWORK AND PIPING

|     |         |        |        | DIFF     | USER AND REC       | GISTER   | SCHE   | DULE     |        |              |         |
|-----|---------|--------|--------|----------|--------------------|----------|--------|----------|--------|--------------|---------|
| TAG | SERVICE |        | TYPE   | DEGIOTED | FACE SIZE (INCHES) | NECK     | 0.B.D. | MATERIAL | FINISH | MANUFACTURER | REMARKS |
|     |         | LINEAR | LAY-IN | REGISTER |                    | (INCHES) |        |          |        | AND MODEL    |         |
| S1  | SUPPLY  | -      | Х      | -        | 24"X24"            | SEE PLAN | Y      | STEEL    | #26    | TITUS 300RL5 | 1,2     |
| S2  | SUPPLY  | -      | -      | X        | 16:X8"             | SEE PLAN | Y      | STEEL    | #26    | TITUS 300RL5 | 1,2     |
| S3  | SUPPLY  | Х      | -      | -        | 48"X4"             | SEE PLAN | Y      | STEEL    | #26    | TITUS 300RL5 | 1,2     |
| R1  | RETURN  | -      | X      | -        | 24"X24"            | SEE PLAN | Y      | STEEL    | #26    | TITUS 300RL  | 1,2     |
| R2  | RETURN  | -      | -      | Х        | 16 <b>"</b> X8"    | SEE PLAN | Y      | STEEL    | #26    | TITUS 300RL  | 1,2     |
| R3  | RETURN  | -      | -      | Х        | 24"X8"             | SEE PLAN | Y      | STEEL    | #26    | TITUS 300RL  | 1,2     |
| R4  | RETURN  | -      | -      | X        | 18"X8"             | SEE PLAN | Y      | STEEL    | #26    | TITUS 300RL  | 1,2     |

PROVIDE VOLUME CONTROL DAMPER IN EACH GRILLE/DIFFUSER. 2 COORDINATE GRILLES/DIFFUSER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS

E5 EXHAUST – – X 12"X12" SEE PLAN Y STEEL #26 TITUS 300RL

|      |          |                         |             |                 | EXHAUS      | T FAN | SCHED | OULE      |                        |                           |         |
|------|----------|-------------------------|-------------|-----------------|-------------|-------|-------|-----------|------------------------|---------------------------|---------|
| TAG  | LOCATION | SERVICE                 | AIR<br>FLOW | ESP<br>(INCHES) | SP FAN DATA |       |       | MOT<br>HP | OR DATA<br>VOLTS/PH/HZ | MANUFACTURER AND<br>MODEL | REMARKS |
|      |          |                         | (CFM)       | ,,              |             |       |       |           | , ,                    |                           |         |
| EF 1 | ROOF     | BASEMENT<br>BATHROOM    | 450         | 0.25            | CENTRIFUGAL | 1560  | BELT  | 1/6       | 120/1/60               | GREENHECK – GB81          | 1,2     |
| EF 2 | ROOF     | FIRST FLOOR<br>BATHROOM | 500         | 0.25            | CENTRIFUGAL | 1560  | BELT  | 1/6       | 120/1/60               | GREENHECK – GB81          | 1,2     |

I. FURNISH FAN WITH GRAVITY DAMPER & WALL CAP 2. REMOVE EXISTING EXHAUST FAN AND REPLACE WITH NEW EXHAUST.

|   |                              |                           |                                       |                         | GA                  | S FIRE                           | ) FURI               | NACE S                                | CHEDU                        | LE                 |                                       |         |         |  |
|---|------------------------------|---------------------------|---------------------------------------|-------------------------|---------------------|----------------------------------|----------------------|---------------------------------------|------------------------------|--------------------|---------------------------------------|---------|---------|--|
|   | TAG                          | BLOWER                    |                                       |                         | HEATING<br>(MBH)    |                                  | мото                 | ELECTR                                | VOLT/PHASE                   |                    | MANUFACTURER AND MODEL                | REMARKS |         |  |
|   | Г                            | CFM                       | ESP                                   | HP                      | IN                  | OUT                              |                      | S) (AMPS)                             | HTZ                          |                    |                                       |         |         |  |
| F | 71 TO F4                     | 2000                      | 0.5"                                  | 1/2                     | 100,000             | 97,000                           | ) 7.9                | 15 2                                  | 208/1/60                     | 3                  | YORK TM9M (97% EFF.)                  | 1,2,3,4 |         |  |
|   | ROVIDE FURNA<br>ROVIDE NEUTR | CE TWINNIN<br>ALIZATION I | NG KIT.<br>KIT.                       |                         |                     |                                  |                      |                                       |                              |                    |                                       |         |         |  |
|   | ROVIDE FURNA<br>ROVIDE NEUTR |                           |                                       | DENSER                  |                     |                                  | NSING                | UNIT S                                | SCHEDU                       | ILE                |                                       |         |         |  |
|   | TAG                          | NOMINAL<br>TONS           | IG KIT.<br>KIT.<br>COND<br>NO.OF      | DENSER<br>FAN HP        |                     | CONDE<br>DMPRESSOR               | NSING                | UNIT S                                | SCHEDU<br>se mca             | ILE                | MANUFACTURER AND MODEL                |         | REMARKS |  |
|   | TAG                          | NOMINAL<br>TONS           | IG KIT.<br>KIT.<br>NO.OF<br>FANS<br>1 | FAN HP                  | NO.OF<br>COMP.      | CONDE<br>DMPRESSOR<br>LRA<br>104 | NSING<br>rla<br>19.2 | UNIT S                                | SCHEDU<br>SE MCA<br>50 36.34 | MOCP<br>60A        | MANUFACTURER AND MODEL<br>YORK CZHO60 | 14.5    | REMARKS |  |
|   | TAG                          | NOMINAL<br>TONS           | IG KIT.<br>KIT.<br>NO.OF<br>FANS<br>1 | PENSER<br>FAN HP<br>1/4 | NO.OF<br>COMP.<br>1 | CONDE<br>DMPRESSOR<br>LRA<br>104 | NSING<br>RLA<br>19.2 | UNIT S<br>VOLT/PHA:<br>HTZ<br>208/1/6 | SCHEDU<br>SE MCA<br>50 36.3A | ILE<br>MOCP<br>60A | MANUFACTURER AND MODEL<br>YORK CZHO60 | 14.5    | REMARKS |  |
|   | TAG                          | NOMINAL<br>TONS           | IG KIT.<br>KIT.<br>NO.OF<br>FANS<br>1 | ENSER<br>FAN HP<br>1/4  | NO.OF<br>COMP.<br>1 | CONDE<br>DMPRESSOR<br>LRA<br>104 | NSING<br>RLA<br>19.2 | UNIT S<br>VOLT/PHA:<br>HTZ<br>208/1/6 | SCHEDU<br>SE MCA<br>50 36.3A | MOCP<br>60A        | MANUFACTURER AND MODEL<br>YORK CZHO60 | 14.5    | REMARKS |  |

|       | ELECT    | FRIC | HEAT | ER | SCH |                           |         |
|-------|----------|------|------|----|-----|---------------------------|---------|
| TAG   | LOCATION | KW   | V    | PH | HZ  | MANUFACTURER AND<br>MODEL | REMARKS |
| EWH-1 | SEE PLAN | 3    | 240  | 1  | 60  | QMARK AWH SERIES          | 1       |
| EWH-2 | SEE PLAN | 3    | 240  | 1  | 60  | QMARK AWH SERIES          | 1       |

| .No           | Room Number | Room Name              | Area (Sq<br>Ft) | Room<br>Use | Number<br>of People<br>as per<br>Layout | As per Intnl Code table<br>e 403.3 for Outdoor(Fresh<br>Air) CFM/for Area<br>Exhaust CFM/Sft |                         | Ord                      | linanace Red           | quirement               |                |                           | Plar                  | n Actual            |                           | Remarks |
|---------------|-------------|------------------------|-----------------|-------------|---|--|-------------------------|--------------------------|------------------------|-------------------------|----------------|---------------------------|-----------------------|---------------------|---------------------------|---------|
|               |             |                        |                 |             |   |  | Natural V<br>Glass-SqFt | Ventilation<br>Vent-SqFt | M<br>Supply<br>Air-CEM | echanical Ve<br>Exhaust | Outdoor (Fresh | Natural Ven<br>Glass-SqFt | tilation<br>Vent-SqFt | Mechanica<br>Supply | al Ventilation<br>Exhaust |         |
| 1             | 001         | Lobby                  | 420             | Office      | 3                                       | 5/0.06   | NR                      | 25.2                     | 252                    | 126                     | 15             |                           | _                     | 400                 | 400                       |         |
| 2             | 002         | Conference             | 300             | Office      | 12                                      | 5/0.06   | NR                      | 18                       | 180                    | 90                      | 60             | _                         | -                     | 400                 | 400                       |         |
| $\frac{2}{3}$ | 003         | Office                 | 240             | Office      | 3                                       | 5/0.06   | NR                      | 14.4                     | 144                    | 72                      | 15             | _                         | -                     | 330                 | 330                       | F1      |
| $\frac{1}{4}$ | 004         | Office                 | 280             | Office      | 3                                       | 5/0.06   | NR                      | 16.8                     | 168                    | 84                      | 15             | -                         | -                     | 330                 | 330                       | F1      |
| 5             | 005         | Storage                | 500             |             | 1                                       | 0.06Cfm/Sft  | NR                      | NR                       | NR                     | NR                      | 5              | -                         | -                     | 300                 | 300                       | F2      |
| 6             | 006         | RR Bay                 | 80              | Corridor    | 5                                       | 5/0.06   | NR                      | 4.8                      | 48                     | 50                      | 25             | -                         | -                     | 100                 | 100                       | F2      |
| 7             | 007         | Exisiting Men's Room   | 115             | Toilet      | -                                       | 25/50 Cfm/Sft  | NR                      | 4.6                      | 69                     | 230                     | -              | -                         | -                     | 100                 | 100                       | F2      |
| 8             | 008         | Exisiting Women's Room | 105             | Toilet      | -                                       | 25/50 Cfm/Sft  | NR                      | 4.2                      | 63                     | 210                     | -              | -                         | -                     | 150                 | 150                       | F2      |
| 9             | 009         | Mechanical Room        | 230             |             | 2                                       | 0.06Cfm/Sft  | NR                      | 13.8                     | 138                    | 69                      | 10             | -                         | -                     | 0                   | 0                         |         |
| 0             | 100         | Lobby                  | 825             | Office      | 3                                       | 5/0.06   | NR                      | 49.5                     | 495                    | 247.5                   | 15             | -                         | -                     | 1200                | 1200                      | F3      |
| 1             | 102         | Exisiting Men's Room   | 147             | Toilet      | -                                       | 25/50 Cfm/Sft  | NR                      | 5.88                     | 88.2                   | 294                     | -              | -                         | -                     | 200                 | 200                       | F3      |
| 2             | 105         | Exisiting Women's Room | 100             | Toilet      | -                                       | 25/50 Cfm/Sft  | NR                      | 4                        | 60                     | 200                     | -              | -                         | -                     | 100                 | 100                       | F3      |
| 3             | 105         | Office                 | 275             | Office      | 3                                       | 5/0.06   | NR                      | 16.5                     | 165                    | 82.5                    | 15             | -                         | -                     | 350                 | 350                       | F4      |
| 4             | 105         | Office                 | 275             | Office      | 3                                       | 5/0.06   | NR                      | 16.5                     | 165                    | 82.5                    | 15             | -                         | -                     | 350                 | 350                       | F4      |
| 5             | 105         | Office                 | 275             | Office      | 3                                       | 5/0.06   | NR                      | 16.5                     | 165                    | 82.5                    | 15             | -                         | -                     | 350                 | 350                       | F4      |
| 6             | 105         | Office                 | 160             | Office      | 3                                       | 5/0.06   | NR                      | 9.6                      | 96                     | 50                      | 15             | -                         | -                     | 100                 | 100                       | F4      |
| 7             | 105         | Office                 | 125             | Office      | 3                                       | 5/0.06   | NR                      | 7.5                      | 75                     | 50                      | 15             | -                         | -                     | 100                 | 100                       | F4      |
| 8             | 106         | Conference             | 300             | Office      | 12                                      | 5/0.06   | NR                      | 18                       | 180                    | 90                      | 60             | -                         | -                     | 400                 | 400                       | F4      |
|               | ·otal       |                        | 4,752.00        |             |   |  |                         |                          |                        |                         |                |                           |                       | 5,260.00            | 5,260.00                  |         |

|             |  |  | INSPIRED<br>TECHNOLOGY<br>CONCEPTS.<br>1433,TONNE ROAD.<br>ELK GROVE, IL<br>60007<br>Tel # 847-770-5725 |
|-------------|--|--|---|
|             | LEXITECT DESIO<br>912 HAYDEN E<br>MCHENRY, IL 6<br>303–526–8150<br>Lexitect@peakpeak.o | GNS<br>)R.<br>60050<br>8<br>сом                        |   |
|             | ARCHITECT/   | ENGINEEF   |   |
|             | LU(<br>OFFIC<br>721 d  | CAC<br>ER<br>jndee a                                   | CIONI<br>REMODEL<br>ve., elgin, il  |
|             | PROJECT NU<br>14.009<br>DRAWN BY:<br>LP<br>CHECKED BY                                  | MBER:  |   |
|             | DATE:  | REVIS  | ION:  |
|             | DATE:<br>2-26-15<br>9-16-15<br>10-28-15<br>10-10-16<br>11-7-16                         | ISSUE<br>PRELIM<br>PERMIT<br>PERMIT<br>PERMIT<br>ISSUE | D AS:<br>INARY DESIGN<br>SUBMITTAL<br>REVISION<br>RE-SUBMITITTAL<br>FOR PRICING                         |
|             | SHEET TITLE<br>VEI<br>EQUIF  | :<br>NTILATI<br>PMENT \$                               | ON AND<br>SCHEDULE  |
| Man Man Man | SHEET NUME   | BER:   | 00  |

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used or disclosed without the written consent of the architect(s).