

13. MECHANICAL SUB CONTRACTOR SHALL PROVIDE AN AUTOCAD (VERSION 2015) COMPACT DISK COPY OF THE CONTACT DRAWINGS FOR RECORD 'AS-BUILT' DRAWINGS, REVISED AS REQUIRED TO SHOW ANY DEVIATIONS OF LAYOUT FROM THAT ORIGINALLY SHOWN.

14. PROVIDE ONE SET OF SPECIAL TOOLS REQUIRED TO SERVICE EQUIPMENT AS RECOMMENDED BY MANUFACTURERS.

15. THE MECHANICAL SUB CONTRACTOR SHALL SUBMIT SHOP DRAWINGS VIA E-MAIL IN PDF FORMAT. HARD COPIES WILL NOT BE ACCEPTED. SHOP DRAWING SUBMITTALS SHALL INCLUDE THE CONTRACTORS STAMP INDICATING THAT THE CONTRACTOR HAS REVIEWED THE SUBMITTAL FOR COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS AND HAS COORDINATED DIMENSIONS, WEIGHT, SERVICES ACCESS REQUIREMENTS ETC... BASED ON SITE CONDITIONS. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH ERRORS OR OMISSIONS IN THE SHOP DRAWINGS.

16. CONTRACTOR TO CONFIRM ALL DIMENSIONS AND LOCATIONS OF ALL EQUIPMENT, LAYOUTS, AND SERVICES ETC. PRIOR TO COMMENCEMENT OF WORK.

17. HOISTING OF ALL MECHANICAL EQUIPMENT SHALL BE BY THE MECHANICAL SUB CONTRACTOR.

18. ASSUME FULL RESPONSIBILITY FOR LAYING OUT ALL WORK AND ENSURING THAT NO DAMAGE IS CAUSED TO THE CITY OF WINNIPEG EQUIPMENT AND PREMISES DUE TO IMPROPER LOCATION AND EXECUTION OF WORK UNTIL WORK HAS BEEN COMPLETED AND ACCEPTED BY THE CITY OF WINNIPEG. STORE ALL MATERIALS AS REQUIRED FOR PROTECTION AND CLEAN UP REFUSE CAUSED BY ALL WORK.

SECTION 15800 HEATING, VENTILATION & AIR CONDITIONING

1. PROVIDE SUPPLY AIR, RETURN AIR, AND EXHAUST AIR DUCT SYSTEMS AS SHOWN.

2. ALL DUCTWORK INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH SMACNA LATEST EDITION DUCT STANDARDS.

3. THIS SUB CONTRACTOR SHALL SUPPLY AND INSTALL ALL DUCTWORK INCLUDING APPURTENANCES, HANGERS, DAMPERS, ETC.

3.1. RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED FROM GALVANIZED SHEET METAL OF THE FOLLOWING U.S. STANDARD GAUGES:

DUCTS UP TO 12" ON LONGEST DIMENSION 26 GA.
 DUCTS 13" TO 28" ON LONGEST DIMENSION 24 GA.
 DUCTS 29" TO 48" ON LONGEST DIMENSION 22 GA.

SECTION 15990 TESTING AND BALANCING OF MECHANICAL SYSTEMS

1. INDEPENDENT RECOGNIZED AIR BALANCE CONTRACTOR SHALL BE AABC CERTIFIED.

2. TEST AND BALANCE ALL BUILDING EXHAUST FAN TO WITHIN 5% OF DESIGN.



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