

DIVISION 1 – GENERAL REQUIREMENTS

1. THE WORK INCLUDES NEW IMPROVEMENTS IN AN EXISTING SPACE, PER SQUARE FOOT CALCULATIONS AS NOTED ON THE TITLE SHEET. THE CONTRACTOR SHALL INCLUDE THE CONSTRUCTION OF THE IMPROVEMENTS, IN ITS ENTIRETY AS OUTLINED IN THIS SET OF CONSTRUCTION DOCUMENTS AND TO SECURE AND PAY FOR ANY GOVERNMENT FEES, LICENSES AND PERMITS.

2. THE GENERAL CONTRACTOR SHALL OBTAIN A CURRENT COPY OF THE CITY OF RICHARDSON AMENDMENTS TO THE ICC CODES. CONTRACTOR MUST FAMILIARIZE THEMSELVES WITH ITS REQUIREMENTS AND RESTRICTIONS AND PERFORM ALL WORK ACCORDING TO ALL GUIDELINES SET FORTH.

3. CONTRACTORS SHALL VISIT THE PREMISES WHILE BIDDING AND SHALL FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND THE REQUIREMENTS OF THE PROJECT PRIOR TO DEVELOPING THEIR BID. MATERIAL QUANTITIES SHALL BE BASED ON ACTUAL FIELD CONDITIONS AND MEASUREMENTS. DO NOT RELY ON SCALING PLANS FOR ACCURATE DIMENSIONING.

4. PRIOR TO BEGINNING THE WORK, VERIFY ALL EXISTING DIMENSIONS AND SQUARE FOOTAGES. NOTIFY THE OWNER OF COMPLIANCE OR DISCREPANCIES, COMPARING THOSE DISCREPANCIES TO THE NUMBERS ON THE TITLE SHEET.

5. CONTRACTORS SHALL TAKE CARE TO PROTECT ADJACENT AREAS FROM DUST AND DAMAGE DURING THE CONSTRUCTION PROCESS, AND SHALL CLEAN UP AFTER THEMSELVES AT THE END OF EACH WORKING DAY.

6. ALL RUBBISH AND TRASH SHALL BE REMOVED FROM THE PREMISES AND PROPERLY DISPOSED OF EACH DAY. NO RUBBISH SHALL BE LEFT IN THE PREMISES AFTER WORK IS COMPLETED EACH DAY. COORDINATE RUBBISH REMOVAL WITH THE OWNER.

7. ALL DRAWINGS HERIN CREATE AN ENTIRE PACKAGE. ALL TRADES SHALL BE RESPONSIBLE FOR REVIEWING THEIR RESPECTIVE REQUIREMENTS AND COORDINATING THEIR HIDDEN OR EXPOSED WORK WITH OTHER RELATED TRADES.

8. COORDINATE ALL WORK OF THE VARIOUS TRADES AND SUBCONTRACTORS TO ASSURE EFFICIENT AND ORDERLY INSTALLATION. PROVIDE ACCOMMODATION FOR ITEMS INSTALLED AT A LATER DATE. VERIFY THAT CHARACTERISTICS OF ELEMENTS OF INTERRELATED OPERATING EQUIPMENT ARE COMPATIBLE. COORDINATE WORK OF VARIOUS SECTIONS WHICH HAVE INTERDEPENDANT RESPONSIBILITIES FOR INSTALLING, CONNECTING TO, AND PLACING IN SERVICE, SUCH EQUIPMENT. COORDINATE SPACE REQUIREMENTS AND INSTALLATION OF MECHANICAL AND ELECTRICAL WORK AND FIRE SPRINKLER SYSTEMS WHICH ARE INDICATED, DETAILED, OR IMPLIED DIAGRAMMATICALLY ON DRAWINGS.

9. UNLESS SPECIFICALLY NOTED, PROVIDE AND PAY FOR LABOR, MATERIALS AND EQUIPMENT. TOOLS, CONSTRUCTION EQUIPMENT AND MACHINERY, AND OTHER FACILITIES AND SERVICES NECESSARY FOR PROPER EXECUTION AND COMPLETION OF WORK, INCLUDING PERMITS.

10. FURNISH ALL REQUIRED TEMPORARY FACILITIES AND ALL TEMPORARY UTILITIES IMMEDIATELY AFTER RECEIPT OF NOTICE TO PROCEED FOR USE TO CONVENIENCE OF ALL THOSE ENGAGED IN THE PROJECT WORK.

11. ALL CONTRACTORS MUST STAY BEHIND THE BARRIERS AND MAINTAIN ACCESS TO SUCH AREAS AND LEAVE AND FREE OF CONSTRUCTION MATERIALS AND DEBRIS. FAILURE TO MAINTAIN CLEAN PREMISES WILL RESULT IN BUILDING MANAGEMENT HAVING SUCH MATERIALS AND DEBRIS REMOVED AND ALL CHARGES FOR MAINTENANCE WILL BE BILLLED TO GENERAL CONTRACTOR.

12. COORDINATE ALL CONSTRUCTION SCHEDULING WITH THE OWNER, REVIEWING ALL SCHEDULED ACTIVITIES AT OUTSET OF CONSTRUCTION.

13. ALLOWABLE TOLERANCES – UNLESS OTHERWISE NOTED OR INDICATED, THE FOLLOWING TOLERANCES SHALL APPLY TO ALL WORK:
a. ALL VERTICAL SURFACES SHALL BE PLUMB OR CONFORMED TO THE EXACT SLOPE OR ANGLES INDICATED.
b. THE MAXIMUM DEVIATION FROM THE TRUE PLANE FOR VERTICAL AND HORIZONTAL SURFACES SHALL NOT BE GREATER THAN 1/8" IN 10'-0" AS MEASURED BY A STRAIGHT EDGE PLACED ANYWHERE ON THE SURFACE.
c. ALL HORIZONTAL SURFACES SHALL BE LEVEL OR CONFORMED TO THE EXACT ANGLE INDICATED OR INTENDED.
d. WALL AND SKYRIT INTERSECTIONS SHALL BE 90 OR THE EXACT ANGLE INDICATED OR INTENDED.
e. ALL CORNERS AND EDGES SHALL BE STRAIGHT AND TRUE WITHOUT DENTS, WAVES OR BULGES OR OTHER BLEMISHES.
f. ALL JOINTS SHALL BE TIGHT, STRAIGHT, EVEN AND SMOOTH.
g. ALL OPERABLE ITEMS SHALL OPERATE SMOOTHLY WITHOUT STICKING OR BINDING AND WITHOUT EXCESSIVE "PLAY" OR LOOSENESS.

14. THE OWNER OR THE OWNER'S SUBCONTRACTORS MAY OCCUPY PORTIONS OF THE PROJECT DURING CONSTRUCTION. COORDINATE AND COOPERATE WITH THE OWNER TO MINIMIZE CONFLICT AND FACILITATE THE OWNER'S OPERATION.

15. ALL DIMENSIONS AND FINISHES SHALL BE VERIFIED AND COORDINATED WITH EXISTING CONDITIONS PRIOR TO CONSTRUCTION, FABRICATION, OR PURCHASING. IN CASE OF CONFLICT BETWEEN THE PROJECT REQUIREMENTS AND/OR EXISTING CONDITIONS, THE ONE HAVING THE MOST STRINGENT REQUIREMENTS SHALL GOVERN, AS APPROVED BY THE OWNER.

16. PERFORM ALL WORK IN ACCORDANCE WITH ACCEPTABLE TRADE PRACTICE TO INSURE THE HIGHEST QUALITY FINISHED PRODUCT – EXPRESSED OR IMPLIED. PERFORM ALL WORK BY SKILLED MECHANICS IN ACCORDANCE WITH ESTABLISHED STANDARDS OF WORKMANSHIP IN EACH OF THE VARIOUS TRADES.

17. COORDINATE BLOCKING REQUIREMENTS FOR SECURE ATTACHMENT OF ANY WALL OR CEILING MOUNTED ITEMS. WITH ADJACENT OF RELATED TRACES, ACCESSORIES EQUIPMENT AND FIXTURES INSTALL REQUIRED BLOCKING AT NO ADDITIONAL COST TO THE CONTRACTOR.

18. REPAIR PROPERTY DAMAGE BY THE INSTALLERS TO A LIKE NEW CONDITION OR REPLACE DAMAGED SURFACES AND MATERIALS OF THE PREVIOUSLY INSTALLED WORK BY OTHER TRADES, INSTALLERS AND SUBCONTRACTORS.

19. WHEN REQUESTED BY THE OWNER TO CERTIFY CONFORMANCE TO TRADE STANDARDS OF THE PROJECT REQUIREMENTS, THE CONTRACTOR SHALL ENGAGE A TESTING LABORATORY AT THE OWNER'S COST. IF THE REQUESTED TEST SHOWS NON-COMFORMANCE TO ACCEPTED TRADE STANDARDS OR THE PROJECT REQUIREMENTS, THE CONTRACTOR SHALL CORRECT THE DEFICIENCY AT NO ADDITIONAL COSTS TO THE OWNER AND REBURSE ALL THE COSTS OF THE TESTING TO THE OWNER, UNLESS THE CONTRACTOR HAS USED PRODUCTS INCORRECTLY LABELED BY THE MANUFACTURER OR HAS MADE PREVIOUSLY APPROVED CHANGES.

20. PROVIDE SECURITY OF THE WORK, INCLUDING TOOLS AND UNINSTALLED MATERIALS. PROTECT THE WORK, STORED PRODUCTS, CONSTRUCTION EQUIPMENT AND PERSONNEL'S PROPERTY FROM THEFT AND VANDALISM AND THE PREMISES FROM ENTRY BY UNAUTHORIZED PERSONNEL UNTIL FINAL ACCEPTANCE BY OWNER.

21. MAINTAIN AN ACTIVE FIRE EXTINGUISHER AT THE PROJECT THROUGHOUT ALL PHASES OF CONSTRUCTION.

22. DO NOT USE MATERIAL OR EQUIPMENT FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY DESIGNED OR SPECIFIED. ALL MATERIALS AND EQUIPMENT THAT ARE SIMILAR SHALL BE THE SAME TYPE, MODEL, AND STYLE FOR THE SAME USE THROUGHOUT THE PROJECT OR THEY SHALL BE REJECTED.

23. WHEN THE PROJECT REQUIREMENTS REQUIRE THAT THE INSTALLATION OF WORK SHALL COMPLY WITH MANUFACTURER'S INSTRUCTIONS, PERFORM THE WORK IN STRICT ACCORDANCE WITH THE MOST CURRENT WRITTEN MANUFACTURER'S INSTRUCTIONS.

24. ALL PRODUCTS AND EQUIPMENT SHALL BE DELIVERED IN UNDAMAGED CONDITION AND STORED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS TO AVOID DISRUPTION OF THE WORK OR DAMAGE TO THE ITEMS. REPLACE DAMAGED OR UNIT MATERIALS, AT NO COST TO THE OWNER.

25. NOTIFY THE OWNER WHEN THE WORK IS SUBSTANTIALLY COMPLETE AND READY FOR INSPECTION. UPON INSPECTION, PROVIDE WRITTEN OPERATION AND MAINTENANCE INSTRUCTIONS AND WARRANTIES FOR ALL EQUIPMENT AND MATERIALS INSTALLED. PROVIDE WRITTEN WARRANTIES FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK.

26. PROVIDE FINAL CLEANUP AND DAMAGE REPAIR AT THE PROJECT COMPLETION. LEAVE THE PREMISES NEAT, CLEAN AND CLEAR OF TOOLS, EQUIPMENT AND SURPLUS MATERIALS, UNLESS REQUESTED BY THE OWNER. CLEANUP SHALL INCLUDE AND NOT BE LIMITED TO:
a. HAND MOPPING AND WASHING OF ALL FLOORS, WALLS, AND CEILINGS AS REQUIRED.
b. HAND DUSTING AND CLEANING OF ALL SHELVING, CABINETRY, COUNTERS, GLASS AND MIRRORS BOTH INSTALLED UNDER THIS CONTRACT OR EXISTING WALLS, CEILINGS, FIXTURES, ETC.
c. REPAIR OR REPLACEMENT OF PROPERTY DAMAGED DURING FINAL COMPLETION OF THE PROJECT. 2-SEPARATE CLEAN UPS WILL BE REQUIRED FOR THIS JOB, (1) AT START OPENING, AND (1) PRIOR TO GRAND OPENING.

27. CONTRACTOR AND CARPENTERS TO PROVIDE 8 HOURS TO INSTALL AND HANG ANY MISCELLANEOUS ITEMS AND CLEAN ALL ITEMS BEFORE PUNCH LIST AND BEFORE TURNOVER.

DIVISION 2 – DEMOLITION/BUILDING ALTERATIONS

1. ALL DEMOLITION WORK REQUIRED TO PROPERLY PREPARE THE BUILDING FOR NEW CONSTRUCTION SHALL BE PERFORMED BY THE CONTRACTOR. CARE SHOULD BE TAKEN DURING DEMOLITION TO PREVENT DAMAGE TO THE BUILDING AND OTHER EXIST. WALLS OR CEILINGS THAT WILL REMAIN. EXIST. FLOORING TO REMAIN SHALL BE PROTECTED.

2. MATERIALS THAT ARE GOOD OR IN WORKABLE CONDITION SHALL BE STORED IN AN ACCEPTABLE AREA FOR USE BY THE OWNER.

3. ALL TRASH, DEBRIS AND DISCARDED MATERIALS SHALL BE REMOVED AS SOON AS POSSIBLE TO INSURE THE BUILDING TO BE IN A SAFE AND AS CLEAN A CONDITION AS POSSIBLE. DAILY TRASH REMOVAL SHALL BE REMOVED AFTER HOURS.

4. CONTRACTOR IS RESPONSIBLE FOR CAPPING, ENDING OR TERMINATING ANY NON-USED UTILITY PER LOCAL OR STATE CODE OR PREVAILING HEALTH DEPARTMENT REQUIREMENTS. UTILITIES SHALL BE CAPPED AT CLOSEST TRUNK POINT.

5. CONTRACTOR SHALL EXERCISE SPECIAL CARE IN REMOVING EXIST. WALLS TO MAKE SURE THEY ARE NOT LOAD BEARING. IF ANY WALLS ARE LOAD BEARING, THE G.C. SHALL PROVIDE FOR TEMP. SHORING OF STRUCTURE DURING CONSTRUCTION OF NEW WALLS AND COLUMNS.

6. ALL ADHESIVES, GLUE, FLOOR TILE AND CARPET SHALL BE COMPLETELY REMOVED AND SCRAPED DOWN TO A SMOOTH SURFACE.

DIVISION 3 – CONCRETE REPAIR & REPLACEMENT

1. CONCRETE SLABS ON GRADE SHALL HAVE A MINIMUM 28-DAY STRENGTH OF 3,000 PSI ALL CONCRETE CONSTRUCTION SHALL CONFORM TO A.C.I.

2. CONCRETE WHEN PLACED, EXCEPT SLABS ON GRADE, NEED TO BE VIBRATED ONLY AT TRIDONES, FLOOR DUCTS, TURNEDONES, ETC. MINIMUM SUMP 4 1/2" FOR CONCRETE WITHOUT PLASTICIZER. IF PLASTICIZER IS USED, A HIGHER FINAL SUMP MAY BE ALLOWED UPON STRUCTURAL ENGINEER'S APPROVAL. CAST CLOSURE PRIOR AROUND COLUMNS AFTER COLUMN DEAD LOAD IS APPLIED. UNLESS APPROVED OTHERWISE IN WRITING BY THE ARCHITECT, ALL CONCRETE SLABS ON GRADE SHALL BE BOUND BY CONTROL JOINTS (KEED OR SAW CUT), AS SHOWN ON THE FOUNDATION PLAN, SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 100 SQUARE FEET. KEVED CONTROL JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING. ALL OTHER JOINTS MAY BE SAW CUT.

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DIVISION 5 – METAL FABRICATIONS

1. PROVIDE ALL MISCELLANEOUS METAL ITEMS INCLUDING MATERIALS, FABRICATIONS, FASTENINGS, AND ACCESSORIES REQUIRED FOR FINISHED INSTALLATION AS SPECIFIED AND SCHEDULED.

2. STEEL SHALL BE ASTM A366 AMERICAN OPEN HEARTH SHEET STEEL, FREE FROM SCALE AND FITTING AND OTHER DEFECTS AFFECTING APPEARANCE.

3. TURNING SHALL CONFORM TO REQUIREMENTS OF ASTM A500 OR A501 AS APPROVED.

4. WHERE METAL ITEMS ARE TO BE ERRECTED AND IN CONTACT WITH DISSIMILAR MATERIALS, PROVIDE CONTACT SURFACES WITH COATING OF AN IMPROVED ZINC CHROMATE PRIMER IN MANNER TO OBTAIN NOT LESS THAN 1.0 MIL DRY FILM THICKNESS.

5. SHEET STEEL SHALL CONFORM TO REQUIREMENTS OF ASTM A606.

6. CARBON STEEL BARS SHALL CONFORM TO REQUIREMENTS OF ASTM A321.

7. ALUMINUM EXTRUSIONS SHALL CONFORM TO ASTM B221. REVEALS TO BE BLACK ANODIZED FINISH.

8. FASTENERS SHALL BE AS REQUIRED FOR ASSEMBLY AND INSTALLATION OF FABRICATED ITEMS.

9. BOLTS SHALL BE LOW CARBON STEEL, EXTERNALLY AND INTERNALLY THREADED FASTENERS CONFORMING WITH REQUIREMENTS OF ASTM A325, INCLUDE NECESSARY NUTS AND PLAIN HANDED WASHERS. FOR MEMBERS FOR SUPPORT OF STRUCTURAL MEMBERS OR CONNECTION THERETO, USE FASTENERS CONFORMING WITH ASTM A325. FOR STAINLESS STEEL AND NONFERROUS ITEMS, USE TYPE 302 AND 304 STAINLESS STEEL FASTENERS.

10. MISCELLANEOUS MATERIALS, PROVIDE ALL INCIDENTAL ACCESSORY MATERIALS, TOOLS, METHODS, AND EQUIPMENT REQUIRED FOR FABRICATION AND INSTALLATION OF MISCELLANEOUS METAL ITEMS AS INDICATED ON DRAWINGS.

11. VERIFY DIMENSIONS PRIOR TO FABRICATION OR CASTING. FORM METAL ITEMS TO ACCURATE SIZES AND CONFIGURATIONS AS INDICATED ON DRAWINGS AND OTHERWISE REQUIRED FOR PROPER INSTALLATION; FABRICATE WITH ALL LINES STRAIGHT AND ANGLES SHARP, CLEAN AND TRUE, DRILL, COUNTERSINK, TAP, AND OTHERWISE PREPARE ITEMS FOR CONNECTION WITH WORK OF OTHER TRADES. MAKE PERMANENT CONNECTIONS BY WELDING AND GRIND ALL EXPOSED WELDS SMOOTH TO MATCH ADJACENT SURFACES; ROUND JOINT SURFACES (WHERE APPLICABLE) AND USE LONG BOLTS AND SCREWS UNLESS SPECIFICALLY INDICATED OR APPROVED; WHEN USED, DRAW UP TIGHT AND THE THREADED TO PREVENT LOOSENING.

12. ALL FERROUS METAL ITEMS SHALL BE SHOP FINISHED. TOUCHUP OR REPAIR DAMAGED AREAS PRIOR TO INSTALLATION WITH SAME MATERIAL.

13. PROVIDE CONTACT SURFACES WITH CONCRETE MASONRY OR OTHER DISSIMILAR MATERIALS WITH A MINIMUM ONE POINT ZERO (1.0) MIL DRY THICKNESS OF AN APPROVED ZINC CHROMATE PRIMER.

14. PROVIDE ALL STEEL BLOCKING AND BRACING IN METAL FRAME PARTITIONS NECESSARY FOR A COMPLETE INSTALLATION. INCLUDE AS REQUIRED FOR SUPPORT OF ALL WALL-MOUNTED EQUIPMENT AND FABRICATIONS AS INDICATED ON DRAWINGS. PROVIDE SUPPORTS AT JAMBS OF DOORS AND ELSEWHERE, AS REQUIRED.

15. FABRICATE ALL MISCELLANEOUS FRAMING AND BRACING ITEMS TO DETAIL OF STRUCTURAL SHAPES, PLATES, AND BARS; WELD JOINTS WHERE PRACTICAL; PROVIDE BOLTS AND OTHER CONNECTION DEVICES REQUIRED. INCLUDE ANCHORAGE, CLIP ANGLES, SLEEVES, ANCHOR PLATE, AND SIMILAR DEVICES, WHETHER IMPLIED OR INDICATED. SET ACCURATELY IN POSITION AS REQUIRED AND ANCHOR SECURELY TO BUILDING CONSTRUCTION WITH FASTENERS APPROPRIATE TO THE INSTALLATION.

16. PROVIDE ALL STEEL BLOCKING AND BRACING IN METAL FRAME PARTITIONS NECESSARY FOR A COMPLETE INSTALLATION. INCLUDE AS REQUIRED FOR SUPPORT OF ALL WALL-MOUNTED EQUIPMENT AND FABRICATIONS AS INDICATED ON DRAWINGS. PROVIDE SUPPORTS AT JAMBS OF DOORS AND ELSEWHERE, AS REQUIRED.

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41. PROVIDE ALL STEEL BLOCKING AND BRACING IN METAL FRAME PARTITIONS NECESSARY FOR A COMPLETE INSTALLATION. INCLUDE AS REQUIRED FOR SUPPORT OF ALL WALL-MOUNTED EQUIPMENT AND FABRICATIONS AS INDICATED ON DRAWINGS. PROVIDE SUPPORTS AT JAMBS OF DOORS AND ELSEWHERE, AS REQUIRED.

42. PROVIDE ALL STEEL BLOCKING AND BRACING IN METAL FRAME PARTITIONS NECESSARY FOR A COMPLETE INSTALLATION. INCLUDE AS REQUIRED FOR SUPPORT OF ALL WALL-MOUNTED EQUIPMENT AND FABRICATIONS AS INDICATED ON DRAWINGS. PROVIDE SUPPORTS AT JAMBS OF DOORS AND ELSEWHERE, AS REQUIRED.

43. PROVIDE ALL STEEL BLOCKING AND BRACING IN METAL FRAME PARTITIONS NECESSARY FOR A COMPLETE INSTALLATION. INCLUDE AS REQUIRED FOR SUPPORT OF ALL WALL-MOUNTED EQUIPMENT AND FABRICATIONS AS INDICATED ON DRAWINGS. PROVIDE SUPPORTS AT JAMBS OF DOORS AND ELSEWHERE, AS REQUIRED.

44. PROVIDE ALL STEEL BLOCKING AND BRACING IN METAL FRAME PARTITIONS NECESSARY FOR A COMPLETE INSTALLATION. INCLUDE AS REQUIRED FOR SUPPORT OF ALL WALL-MOUNTED EQUIPMENT AND FABRICATIONS AS INDICATED ON DRAWINGS. PROVIDE SUPPORTS AT JAMBS OF DOORS AND ELSEWHERE, AS REQUIRED.

45. PROVIDE ALL STEEL BLOCKING AND BRACING IN METAL FRAME PARTITIONS NECESSARY FOR A COMPLETE INSTALLATION. INCLUDE AS REQUIRED FOR SUPPORT OF ALL WALL-MOUNTED EQUIPMENT AND FABRICATIONS AS INDICATED ON DRAWINGS. PROVIDE SUPPORTS AT JAMBS OF DOORS AND ELSEWHERE, AS REQUIRED.

46. PROVIDE ALL STEEL BLOCKING AND BRACING IN METAL FRAME PARTITIONS NECESSARY FOR A COMPLETE INSTALLATION. INCLUDE AS REQUIRED FOR SUPPORT OF ALL WALL-MOUNTED EQUIPMENT AND FABRICATIONS AS INDICATED ON DRAWINGS. PROVIDE SUPPORTS AT JAMBS OF DOORS AND ELSEWHERE, AS REQUIRED.

47. PROVIDE ALL STEEL BLOCKING AND BRACING IN METAL FRAME PARTITIONS NECESSARY FOR A COMPLETE INSTALLATION. INCLUDE AS REQUIRED FOR SUPPORT OF ALL WALL-MOUNTED EQUIPMENT AND FABRICATIONS AS INDICATED ON DRAWINGS. PROVIDE SUPPORTS AT JAMBS OF DOORS AND ELSEWHERE, AS REQUIRED.

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50. PROVIDE ALL STEEL BLOCKING AND BRACING IN METAL FRAME PARTITIONS NECESSARY FOR A COMPLETE INSTALLATION. INCLUDE AS REQUIRED FOR SUPPORT OF ALL WALL-MOUNTED EQUIPMENT AND FABRICATIONS AS INDICATED ON DRAWINGS. PROVIDE SUPPORTS AT JAMBS OF DOORS AND ELSEWHERE, AS REQUIRED.

DIVISION 8 – DOORS, FRAMES & WINDOWS CONTINUED

HARDWARE

1. ALL FINISH HARDWARE FOR COMPLETE WORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS. QUANTITIES LISTED IN ANY INSTANCE ARE BY THE CONTRACTOR'S CONVICENCE ONLY AND ARE NOT GUARANTEED. ITEMS NOT SPECIFICALLY MENTIONED BUT NECESSARY TO COMPLETE THE WORK FURNISHED, MATCHING IN QUALITY AND FINISHED, THE ITEMS SPECIFIED.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER OPERATION AND FITTING OF HARDWARE IN LOCATIONS SPECIFIED. THE CONTRACTOR MUST SUPPLY A ROOM UNDER LOCK AND KEY TO STORE ALL FINISH HARDWARE UNTIL INSTALLATION IS MADE. THE HARDWARE SUPPLIER MUST MARK EACH ITEM OF HARDWARE AS TO DESCRIPTION AND LOCATION OF INSTALLATION IN ACCORDANCE WITH APPROVED HARDWARE SCHEDULE. EXPOSED SURFACES OF HARDWARE SHALL BE COVERED AND WELL PROTECTED DURING INSTALLATION, SO AS TO AVOID DAMAGE TO FINISHES.

3. PROVIDE HARDWARE FOR FIRE-RATED OPENINGS IN COMPLIANCE WITH REQUIREMENTS OF NFPA 80. THIS REQUIREMENT TAKES PRECEDENCE OVER OTHER REQUIREMENTS FOR SUCH HARDWARE.

4. HARDWARE SUPPLIER WILL PROVIDE APPROVED SCHEDULED AND PAPER TEMPLATES TO VARIOUS OTHER SUPPLIERS FOR DOOR AND FRAME PREPARATION FOR HARDWARE.

5. EACH ITEM OF HARDWARE SHALL BE PACKAGED SEPARATELY WITH ALL NECESSARY SCREWS, BOLTS, TAPINGS, KEYS AND INSTALLATION TEMPLATES. DELIVER PACKAGES CLEARLY IDENTIFIED, WITH HEADING NUMBER AS APPROVED ON HARDWARE SCHEDULE.

6. INSTALL EACH HARDWARE ITEM IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS AND LOCATE IN ACCORDANCE WITH DRAWINGS. SET ITEMS LEVEL, PLUMB AND TRUE TO LINE AND LOCATION. ADJUST AND REINFORCE THE ATTACHMENT SUBSTRATE, AS NECESSARY, FOR A SECURE INSTALLATION. SPACE FASTENERS AND ANCHORAGE AS INDICATED OR IN ACCORDANCE WITH INDUSTRY STANDARDS.

7. MAKE FINAL ADJUSTMENTS AND CHECK OF HARDWARE DURING THE WEEK IMMEDIATELY PRIOR TO ACCEPTANCE. CLEAN AND LUBRICATE OPERATING ITEMS AS NECESSARY, TO RESTORE PROPER FUNCTIONING AND FINISH OF HARDWARE AND DOORS. MAKE FINAL ADJUSTMENT OF LOCKSETS AND THE CLOSURES TO COMPENSATE FOR OPERATION OF HEATING AND VENTILATION SYSTEMS UNDER THE SUPERVISION OF MANUFACTURER'S REPRESENTATIVE.

8. LUBRICATE ALL MOVING PARTS WITH GRAPHITE-TYPE LUBRICANT, UNLESS OTHERWISE RECOMMENDED BY MANUFACTURER. REPLACE ALL HARDWARE WHICH CANNOT BE LUBRICATED AND ADJUSTED TO OPERATE FREELY AND SMOOTHLY.

9. LUBRICATE ALL MOVING PARTS WITH GRAPHITE-TYPE LUBRICANT, UNLESS OTHERWISE RECOMMENDED BY MANUFACTURER. REPLACE ALL HARDWARE WHICH CANNOT BE LUBRICATED AND ADJUSTED TO OPERATE FREELY AND SMOOTHLY.

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22. LUBRICATE ALL MOVING PARTS WITH GRAPHITE-TYPE