MECHANICAL SPECIFICATIONS	MECHANICAL SPEC'S CONTINUED:		NOTES:
1.0 GENERAL	4.0 VENTILATION		
.1 VISIT JOBSITE DURING TENDER. DRAWINGS INDICATE APPROXIMATE LOCATION OF EXISTING MECHANICAL EQUIPMENT AND SERVICES. VERIFY EXACT LOCATIONS OF EXISTING MECHANICAL EQUIPMENT AND	.1 DUCTWORK .1 GALVANIZED IRON SCHEDULE:		
SERVICES AND ALLOW FOR NECESSARY RELOCATING OF NOTED SERVICES (OR RECONNECTION TO	MAX. <u>SIDE</u> <u>GAUGES (USSG)</u> <u>BRACING</u>		
EXISTING SERVICES) TO SUIT NEW CONSTRUCTION. 2 ALL WORK SHALL CONFORM TO MANITOBA BUILDING CODE AND LOCAL AUTHORITIES. APPLY FOR, OBTAIN	UP TO 24" 24 NONE 25 TO 30" 24 1" X 1" X 1/8" ANGLE,		
AND PAY FOR ALL NECESSARY PERMITS.	25 TO 30" 24 1" X 1" X 1/8" ANGLE, 4' FROM JOINT.		
.3 COORDINATE INSTALLATION WITH ALL RELATED TRADES, INTERIOR DESIGN PLANS AND REFLECTED CEILING	31 TO 40" 22 1" X 1" X 1/8" ANGLE,		
PLANS. VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING EQUIPMENT AND SERVICES PRIOR TO PROCEEDING WITH WORK.	4' FROM JOINT. ROUND DUCT UP TO 19" 26 NONE		
.4 SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT TO CONTRACT ADMINISTRATOR.			
 .5 PROVIDE ONE YEAR GUARANTEE FOR ALL EQUIPMENT. .6 ALL CONNECTIONS TO EXISTING BUILDING MECHANICAL SERVICES SHALL BE COORDINATED WITH THE 	.2 WHERE DUCT WIDTH EXCEEDS 18" IN LARGEST DIMENSION, STIFFEN BY BREAKING SHEETS DIAGONALLY3 DUCT SIZES SHOWN ARE INSIDE DIMENSIONS. IF DUCTS ARE ACOUSTICALLY LINED, OUTSIDE DUCT SIZE TO	ALL JOINTS SOLDERED WATER TIGHT ———	
CONTRACT ADMINISTRATOR.	BE INCREASED TO SUIT.	BIRDSCREEEN —	E41E0
.7 ALL NECESSARY CUTTING AND PATCHING SHALL BE PERFORMED BY CONTRACTOR. MECHANICAL SUBCONTRACTOR TO CO-ORDINATE ON SITE.	 .4 DUCTWORK SHALL BE CONSTRUCTED AS RECOMMENDED IN ASHRAE GUIDE. .5 SEAL ALL JOINTS (NEW AND EXISTING) AIRTIGHT WITH DURO-DYNE S-2 DUCT SEALER OR EQUAL, IN STRICT 		EXHAUST FAN WITH CURB CAP
.8 REFER TO INSTRUCTIONS TO BIDDERS FOR REQUIREMENTS REGARDING PROJECT PHASING, WORKING	ACCORDANCE WITH MANUFACTURER'S PUBLISHED RECOMMENDATIONS. PRIOR TO APPLICATION,	INTERNAL INSULATION FOR EXHAUST ONLY —	
HOURS, SHUT-DOWN PROCEDURES, ACCESS, ETC.	DUCTWORK TO BE DRY AND FREE OF GREASE, ETC. USE 1/4" BEAD OF MATERIAL ALONG JOINTS. MATERIAL,		
.9 PRIOR TO DRILLING HOLES AND/OR OPENINGS IN EXISTING STRUCTURE, CONTRACTOR SHALL RETAIN SERVICES OF NATIONAL TESTING LABORATORIES LIMITED TO LOCATE AND MARK ALL STRUCTURAL	WHEN DRY, TO HAVE 1/8" DEPTH EXTENDING 1" ON EACH SIDE OF JOINT OR SEAM. .6 SIZE ROUND DUCTS, INSTALLED IN PLACE OF RECTANGULAR DUCTS, FROM ASHRAE TABLE OF EQUIVALENT	COUNTER FLASHING	ROOF CURB
REINFORCING STEEL LOCATED IN AREA WHERE CUTTING OR DRILLING IS PROPOSED. AT NO TIME SHALL	RECTANGULAR AND ROUND DUCTS.	20 GAUGE GALVANIZED SHEET METAL FLASHING \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
REINFORCING STEEL BE CUT WITHOUT PRIOR WRITTEN APPROVAL FROM STRUCTURAL ENGINEER QUALIFIED AND LICENSED TO PRACTICE IN PROVINCE OF MANITOBA, NO HOLES OR OPENINGS WILL BE	.7 PRIOR TO FABRICATION OF DUCTWORK, CHECK ALL CEILING SPACES AND HEIGHTS FOR CONFLICTION WITH OTHER TRADES.		BACKDRAFT DAMPER
PERMITTED WITHIN AREA OF STRUCTURAL DROP PANELS LOCATED AT COLUMNS.	.8 DUCT AND EQUIPMENT SUPPORTS, HANGERS AND INSERTS		
.10 ALL INTERIOR SPACE POWER HAMMERING, DRILLING AND OTHER NOISY WORK SHALL BE PERFORMED BETWEEN HOURS OF 6:00 P.M. AND 8:00 A.M.	.1 SUPPORT HORIZONTAL DUCTS ON MAXIMUM 8'-0" CENTRES BY NON-PERFORATED GALV. STEEL, RIVETTED STRAP FOR DUCTWORK 36" (EITHER DIMENSION) OR LESS, AND MINIMUM 1" X 1" X 1/8"	T.O. ROOF	. T.O. ROOF
.11 BID QUOTATIONS SHALL BE BASED ON THE USE OF SPECIFIED EQUIPMENT, UNLESS ACCEPTANCE FOR THE	GALV. IRON PASSING UNDER DUCTS 37" OR OVER (EITHER DIMENSION) WITH 3/8" DIAM. THREADED		
USE OF EQUAL MANUFACTURERS IS OBTAINED FROM THE CONTRACT ADMINISTRATOR PRIOR TO	RODS SUSPENDING ANGLES FROM STRUCTURE.		<u> </u>
SUBMISSION OF TENDERS. ALTERNATE MANUFACTURERS MAY BE QUOTED AS AN INCREASE OR DECREASE AMOUNT TO THE TENDER PRICE, WITHOUT PRIOR ACCEPTANCE OF THE CONTRACT ADMINISTRATOR.	.2 FOR INSERTS IN EXISTING CONCRETE, USE HILTI H.K.D. STEEL ANCHORS9 MANUAL VOLUME DAMPERS TO BE #16 GA. GALV. STEEL, STIFFENED. DAMPERS HARDWARE TO BE	REFER TO DRAWINGS FOR	
.12 FURNISH TO THE CONTRACT ADMINISTRATOR THREE (3) COMPLETE SETS OF MANUFACTURER'S OPERATING	DURO-DYNE KS-145, KS-385 OR KS-12 AS RECOMMENDED BY MANUFACTURER.	CONTINUATION OF DUCTWORK	
AND MAINTENANCE INSTRUCTIONS FOR ALL EQUIPMENT REQUIRING MAINTENANCE. REVIEW INSTRUCTIONS WITH CONTRACT ADMINISTRATOR TO ENSURE A THOROUGH UNDERSTANDING OF THE EQUIPMENT AND ITS	.10 FIRE DAMPERS SHALL CONFORM TO MANITOBA FIRE CODE AND LOCAL AUTHORITIES. ALL FIRE DAMPERS TO BE TYPE 'B', I.E. BLADES OUT OF AIR STREAM.		DRIP PAN
OPERATION.	ALUMAVENT IS AN APPROVED MANUFACTURER OF THE MOTORIZED DAMPER.		EXHAUST FAN DETAIL
.13 PROVIDE A MARK-UP OF THE CONTRACT DRAWINGS FOR RECORD "AS-BUILT" DRAWINGS, REVISED AS			SCALE: N.T.S.
REQUIRED TO SHOW ANY CHANGES FROM THAT ORIGINALLY SHOWN. .14 PROVIDE AS-BUILT DRAWING IN AUTOCAD FORMAT, COMPLETE WITH DISK PAID FOR BY MECHANICAL	5.0 TESTING AND BALANCING .1 AIR SYSTEMS SHALL BE BALANCED AND TESTED BY AN INDEPENDENT AIR BALANCE AGENCY (AABC) TO	ROOF HOOD DETAIL	
SUBCONTRACTOR.	PROVIDE AIR QUANTITIES AS SHOWN. PROVIDE AIR BALANCE REPORT FOR REVIEW BY THE CONTRACT	SCALE: N.T.S.	
.15 ALL DUCTWORK AND PIPING TO BE INSTALLED STRAIGHT, PARALLEL TO THE BUILDING WALLS16 PIPE HANGERS SHALL BE GRINNELL FIG. 65 FOR STEEL PIPE AND FIG. CT65 FOR COPPER PIPE, ALL WITH FIG.	ADMINISTRATOR. SUBMIT TWO COPIES FOR REVIEW UPON COMPLETION. PROVIDE DAMPER STICKER UPON FINAL BALANCING COMPLETION.		
140 THREADED ROD ATTACHED TO FIG. 117 EXPANSION CASE SET IN HOLES DRILLED IN CONCRETE, OR	.2 AIR BALANCE AGENCY SHALL TEST ALL FIRE DAMPERS AND PROVIDE A REPORT FOR REVIEW BY THE		
ATTACHED TO FIG. 225 OR 227 CLAMP ATTACHED TO JOISTS OR BEAMS. .17 PROVIDE FIRE STOPPING FOR ALL OPENINGS IN FIRE SEPARATIONS FOR PASSAGE OF PIPES, DUCTS, ETC.	CONTRACT ADMINISTRATOR. SUBMIT TWO COPIES FOR REVIEW UPON COMPLETION. THIS WORK SHALL INCLUDE THE FOLLOWING:		
TO MAINTAIN INTEGRITY OF FIRE SEPARATIONS AS PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS.	.1 PROVIDE INSPECTION, VERIFICATION AND TESTING OF ALL FIRE DAMPERS, FIRE/SMOKE DAMPERS,		
.18 INSTALLATION OF WORK SHALL BE COORDINATED WITH THE CONTRACTOR AND SHALL BE SCHEDULED SO	SMOKE CONTROL DAMPERS AND CEILING FIRE STOPS AFTER INSTALLATION. COORDINATE THE		
AS NOT TO ENDANGER OR DISTURB THE USERS OF THE BUILDING. SHUTDOWN OF EXISTING BUILDING SYSTEMS SHALL BE COORDINATED WITH THE CONTRACT ADMINISTRATOR.	WORK WITH VENTILATION AND CONTROLS CONTRACTOR(S). 2 PROVIDE DETAILED VERIFICATION REPORT TO INCLUDE ALL FIRE PROTECTION DEVICES NOTED.	lacktriangle	
.19 ALL WIRING FOR EQUIPMENT SPECIFIED HEREIN SHALL BE BY THE ELECTRICAL SUBCONTRACTOR, UNLESS	REPORT SHALL LIST EACH DEVICE AND VERIFICATION OF ITS OPERATION AND INSTALLATION PER		
OTHERWISE NOTED. .20 CONTRACTOR SHALL REVIEW ALL EQUIPMENT REQUIRING ELECTRICAL HOOK-UP WITH ELECTRICAL	THE REQUIREMENTS SPECIFIED. .3 PROVIDE TWO COPIES OF COMPLETED DRAFT VERIFICATION REPORT TO CONTRACT	BIRD GUARD	
SUBCONTRACTOR AND ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT. ENSURE PROPER	ADMINISTRATOR FOR REVIEW.		
ELECTRICAL CHARACTERISTICS ARE DETERMINED FOR ALL AFFECTED AND RELATED WORK. 21 WHERE MECHANICAL SERVICES ARE CONCEALED WITHIN WALLS. FLOORS OR CEILINGS AND CANNOT BE	.4 INCORPORATE COMMENTS OR CHANGES REQUESTED BY CONTRACT ADMINISTRATOR AND PROVIDE SUFFICIENT NUMBER OF COPIES OF FINAL REPORT TO MECHANICAL SUBTRADE FOR		
VISUALLY IDENTIFIED, PROVIDE ELECTRONIC SCANNING DEVICES OR OTHER APPROVED MEANS TO LOCATE	INCLUSION IN OPERATING & MAINTENANCE MANUALS.		
AND IDENTIFY CONCEALED SERVICES PRIOR TO WORK START. MAKE GOOD ANY DAMAGE TO EXISTING	.5 TESTING SHALL BE PERFORMED AFTER AIR BALANCING HAS BEEN COMPLETED.	FLASHING (FIELD SLIPPILIED)	
MECHANICAL SERVICES AT NO COST TO THE CONTRACT.	.6 TEST SHALL INCLUDE FOLLOWING: .1 VISUAL INSPECTION OF EACH DEVICE:	(FIELD-SUPPLIED)	
INSULATION	.1 CONFIRM APPROPRIATELY RATED DEVICE INSTALLED AND CSA/ULC LABEL	. T.O. ROOF	
.1 ALL EXHAUST DUCTS FOR DISTANCE OF 6'-0" BACK FROM WALL OR ROOF OUTLET TO HAVE 2" FIBERGLASS RFFRK.	AFFIXED AND VISIBLE THROUGH DUCT/CEILING ACCESS DOOR2 CONFIRM APPROPRIATE DUCT AND/OR CEILING ACCESS DOOR PROVIDED TO		
.2 INSULATE FRESH AIR INTAKE DUCTWORK WITH 2" FIBERGLAS RFFRK DUCT INSULATION INSTALLED IN	PERMIT SERVICING OF DEVICE. CONFIRM DUCT ACCESS DOOR OPENABLE		
ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.	WITHOUT INTERFERENCE FROM ADJACENT CEILING, PIPES, DUCTS, ETC. .3 CONFIRM DEVICE HAS BEEN INSTALLED IN ACCORDANCE WITH REQUIREMENTS		
.0 PLUMBING	OF THE SPECIFICATIONS, MANUFACTURER'S INSTRUCTIONS AND CODES.	CONCENTRIC ADAPTER BOX	1 ISSUED FOR ADDENDUM EAG
.1 PROVIDE LABOUR, MATERIAL, EQUIPMENT AND SERVICES NECESSARY FOR AND INCIDENTAL TO SUPPLY AND	.4 CONFIRM PROPER INSTALLATION, CLEARANCES, USE OF PROPER ANGLE	ADAPTER BOX	
INSTALLATION OF SYSTEMS SHOWN ON DRAWINGS2 GAS PIPING	FRAMING, USE OF PROPER FASTENERS, USE OF FIRE RATED MATERIAL IN WALL OPENING, LOCATION OF BREAKAWAY JOINTS ETC.		0 ISSUED FOR CONSTRUCTION EAG
.1 THE MECHANICAL CONTRACTOR SHALL ARRANGE WITH MANITOBA HYDRO GAS DIVISION FOR	.5 CONFIRM THAT DEVICE HAS NOT BEEN PAINTED.		N 25-15-15-15-15-15-15-15-15-15-15-15-15-15
REVISION TO GAS SERVICE INCLUDING PRESSURE REGULATOR. THE COST OF THIS SERVICE SHALL BE INCLUDED IN THE COST OF THIS CONTRACT.	.2 OPERATIONAL INSPECTION OF EACH DEVICE TO INCLUDE: .1 MANUAL RELEASE OF FUSIBLE LINK ALLOWING DEVICE TO CLOSE, CONFIRM		No. REVISION/DESCRIPTION BY SEAL
.2 GAS PIPING SHALL BE BLACK STEEL PIPE, EQUAL TO ASTM A-53 SCHEDULE 40 WITH 150 LB	TIGHT FIT CLOSURE WITHOUT BINDING.	VENT PIPE	OF OF MAN
STANDARD BLACK MALLEABLE IRON SCREWED FITTINGS. ALL WORK SHALL COMPLY WITH CAN/CSA, A NATIONAL STANDARD OF CANADA, NATURAL GAS AND PROPANE INSTALLATION CODE B149.1-05.	.2 CONFIRM THAT APPROPRIATE FUSIBLE LINK IS INSTALLED3 RE-OPEN DEVICE AND RESET FUSIBLE LINK CONNECTION.	COMPLICTION AID DIDE	1 2021-06-03
COMPLETE WITH MANITOBA DEPARTMENT OF LABOUR GAS NOTICES, AND SHALL BE PERFORMED	.7 VERIFICATION REPORT SHALL INDICATE GENERAL LOCATION (E.G. ROOM NUMBER OR	COMBUSTION AIR PIPE	2021-06-07 =D
BY FULLY QUALIFIED GAS FITTERS AND/OR WELDERS LICENSED TO PRACTICE IN THE PROVINCE OF	DESCRIPTION) AND SPECIFIC LOCATION (E.G. NORTH WALL ABOVE CEILING) OF ACCESS DOOR TO		Me Meros de la maria della mar
MANITOBA. .3 JOINTING	DEVICE. REPORT SHALL INCLUDE ITEMIZED VERIFICATION OF FOLLOWING, AS APPROPRIATE, FOR EACH DEVICE:	UNIT HEATER —	Procession Programme and the second s
.1 MAKE ALL JOINTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.	.1 DEVICE IS FULLY ACCESSIBLE.		4018221011
.2 BRACE FITTINGS NECESSARY TO PREVENT JOINTS FROM COMING APART UNDER PRESSURE.	.2 DEVICE HAS BEEN PROPERLY INSTALLED 3 DEVICE HAS BEEN SUCCESSELLLY TESTED		EAG XYW XYW ADDDOVE
2 MAKE IOINTO IN DOMECTIC MATER AND DRAINAGE CYCTEMO MITH COLDER CONTAINING NO LEAD	.3 DEVICE HAS BEEN SUCCESSFULLY TESTED.		DRAWN CHECKED DESIGNED APPROVE DATE 2020.06.12 USER
.3 MAKE JOINTS IN DOMESTIC WATER AND DRAINAGE SYSTEMS WITH SOLDER CONTAINING NO LEAD. SOLDER MATERIAL SHALL BE SILVERBRITE 100 OR EQUAL CONSISTING OF COMBINATION OF TIN,	.4 DEVICE HAS BEEN RESET.		APPROVAL
SOLDER MATERIAL SHALL BE SILVERBRITE 100 OR EQUAL CONSISTING OF COMBINATION OF TIN, COPPER AND SILVER.	.5 NAME OF TESTER.		
SOLDER MATERIAL SHALL BE SILVERBRITE 100 OR EQUAL CONSISTING OF COMBINATION OF TIN, COPPER AND SILVER. .4 CLEANING AND FLUSHING		DRAIN LINE TO NEAREST HUB DRAIN	THE CITY OF WINNIPEG
SOLDER MATERIAL SHALL BE SILVERBRITE 100 OR EQUAL CONSISTING OF COMBINATION OF TIN, COPPER AND SILVER. 4 CLEANING AND FLUSHING 1 ON COMPLETION, FLUSH OUT PIPING SYSTEM TO REMOVE ANY FOREIGN MATERIAL IN PIPING. 5 TESTING	.5 NAME OF TESTER.	DRAIN LINE TO NEAREST HUB DRAIN	THE CITY OF WINNIPEG PLANNING, PROPERTY AND
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DRAWING SHEET SIZE: A1 (841mm x 594mm) PLOT 1:1