MECHANICAL SPECIFICATION

CONTRACTOR SHALL SUBJIT PRICE FOR THE COST OF SUPPLY AND INSTALLATION OF EQUIPMENT AND MATERIAL NECESSARY TO PROVIDE A COMPLICTE AND OPERATING BECHANICAL PACKAGE OF CONSIST OF EQUIPMENT AND MATERIALS AS DESCRIBED IN THIS OUTLINE SPECIFICATION, REFER TO MECHANICAL PLANS FOR ACTUAL REQUIREMENTS OF EQUIPMENT.

SECTION 15005 MECHANICAL SCOPE OF WORK .1 INCLUDE IN MECHANICAL SECTION, PROVISION OF LABOUR, NEW MATERIALS, TOOLS, TRANSPORTATION, SERVICES AND FADULITES FOR A COMPLETE WECHANICAL INSTALLATION, THE INSTALLATION SHALL BE LEFT COMPLETE IN ALL RESPECTS AND READY FOR

OPERATION, FINAL INSTALLATION SHALL BE INSTALLED TO COMPLETE SATISFACTION OF THE RESPONSIBLE CONTRACT ADMINISTRATOR.

.2 THE MECHANICAL SCOPE OF WORK INCLUDES, BUT IS NOT NECESSARILY LIMITED TO THE FOLLOWING PROVISION: 1 PROVISION OF ALL PPINO, VALVES, FLUSH VALVES, PIPE SLEEVES, LABOUR AND MISCELLANEOUS MATERIALS AS REQUIRED TO COMPLETE THE PROJECT.

.2 FAMILIARIZE CREW WITH SITE IN ORDER TO DETERMINE APPROPRIATE LOCATIONS, SITE CONDITIONS, ETC. THAT WAY AFFECT WORK.

SECTION 15010 GENERAL CONDITIONS

1. PROVIDE ALL LABOUR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHOWN ON DRAWINGS AND AS SPECIFIED HEREIN.

2. ALL NECESSARY PERMITS SHALL BE OBTAINED AND ALL FEES SHALL BE PAID TO CARRY OUT THE SPECIFIED WORK.

4. ALL WORK SHALL COMPLY IN EVERY RESPECT WITH ALL NATIONAL, PROVINCAL AND LOCAL CODES AND BY-LAWS, WHICH SHALL BE CONSIDERED PART OF THIS SPECIFICATION, IN THE CASE OF CONFLICTING RECURRENENTS, BE GOVERNED BY THE WOST STRINENT REGULATIONS.

5. ALL CUTTING, PATCHING, FLASHING FOR WORK AS REQUIRED HEREIN SHALL BE BY THE CONTRACTOR.

7. COORDINATE WORK WITH WORK OF OTHER TRADES TO AVOID CONFLICT

9. QUOTATIONS SHALL BE BASED ON THE USE OF SPECIFIED MANUFACTURERS OR APPROVED EQUAL. IN ACCORDANCE WITH BE, THE USE OF AN EQUAL OR ALTERNATE MANUFACTURERS (APPROVED IN ACCORDANCE WITH BB) SHALL IN NO WAY PELEVE THE CONTRACTOR FROM THE RESPONSIBILTY OF PROVIDIO ALL WORK THAT WAY BE REQUIRED BY REASON OF DIFFERENT SPACE, WEICHT, LECENCRAL, OR OTHER REQUIRED BY REASON OF DIFFERENT SPACE, SPECIFIED MANUFACTURER, ALTERNATES SHALL BE APPROVED PRIOR TO THE CLOSE OF TENDERS IN ACCORDINACE WITH BE, NO SUBMITTALS RECEIVED AFTER BID CLOSING WILL BE ACCEPTED.

10. THE CONTRACTOR SHALL PROVIDE SIX (6) SETS OF SHOP DRAWINGS FOR ALL EQUIPMENT FOR REVIEW AND APPROVAL BY CONTRACT ADMINISTRATOR. CONTRACTOR SHALL STAMP SHOP DRAWINGS REVIEWED BY CONTRACTOR PRIOR TO SUBMISSION. FALURE TO COMPLY MILL

11. FURNISH TO THE CONTRACT ADMINISTRATOR THREE (3) HARD-COVERED

LOOSE-LEAF BINDERS CONTAINING THEREIN ONE (1) COMPLETE SET OF ANUEACTURERS' OPERATING AND MAINTENANCE INSTRUCTIONS

SHOWING LIMAGR EQUIPMENT AND APPARATUS REQUIRING NAMITENANCE. INSTRUCTIONS SHALL BE COMPLETE FOR INSTALLATON, OPERATION AND MAINTENANCE AND SHALL INCLUDE PREVENTION CLIPPER SHALE PARTS, SUPPLET LISTS AND ADDRESSES SHALL BE SUPPLET. INSTRUCTION SHALL BE REQUIRED WITH THE CONTRACT ADMINSTRATORS FREPSENTIATIVE TO ENSURE A HOROUGH UNDERSTANDARD OF THE EQUIPMENT AND ISS DEFINITION.

12. ALL WIRING, SUPPLY AND INSTALLATION OF DISCONNECT SWITCHES FOR EQUIPMENT SPECIFIED HEREIN SHALL BE PERFORMED BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.

13. CONTRACTOR SHALL EXAMINE THE SITE AND CONDITIONS AFFECTING WORK, METHODS OF CONNECTION AND LOCATION OF ALL SERVICES INVOLVED UNDER THIS CONTRACT. FAILURE TO MAKE THIS VISIT IN

NO MAY ALLEVIATES THE CONTRACTOR FROM RESPONSIBILITY FOR COMPLEXING THE MECHANICAL WORK OF THIS CONTRACT IN A WORKMANLIKE MANNER. NO ALLOWANCE WILL BE MADE AFTER CONTRACT AWARD FOR ANY EXPENSE INCURRED THROUGH A FAILURE TO MAKE THIS EXAMINATION AND INVESTIGATION.

14. SCHEDULING OF ALL WORK SHALL BE ARRANGED WITH THE CONTRACT ADMINISTRATOR, AND THEY SHALL BE NOTFIED AND APPROVAL OBTIANED PROR TO SHUTTING OFF EXISTING SERVICES FOR PURPOSES OF CONVECTING NEW WORK. WORK WITHIN THE BUILDING MAY HAVE TO BE PERFORMED DURING NON-REGULAR WORKING HOURS AND WIDST CONFORM TO WORK RULES OF THE BUILDING AS DIRECTED BY THE CONTRACT ADMINISTRATOR,

1. OBTAIN SETS OF WHITE PRINTS (ONE FOR EACH SYSTEM IE. PLUNBING, HVAC, FIRE PROTECTION) AND KEEP AT JOB SITE

PLIMBING, HVAC, THE PROTECTION, AND ALLE AT YOUR STORE AT ALL TIME. 2. RECORD ALL ADDITIONS OR DEVATIONS FROM THE CONTRACT DOCUMENTS INCLUDING ALL CHANGES, UDB CONDITIONS, ETC. CHANGE ORDERS, FIELD CHANGES, UDB CONDITIONS, ETC. 3. CONTRACTORS STALL BE RESPONSEL FOR THE PRODUCTION OF AS-BULLT RECORD DRAININGS WHICH SHALL DRAINED THE VIEW CONTRACT ON STALL BE RESPONDED FOR HILL RECORD FOR THE VIEW CONTRACT ON THE PRODUCTION OF AS-BULLT RECORD DRAININGS WHICH SHALL

PRODUCTION OF AS-BUILT RECORD DRAMINGS MHCH SHALL PROVIDE A COMPLETE AND ACCURATE RECORD OF THE ACTUAL NECHANICAL INSTALLATION, ALL PRINCIPLE BELOW GRADE OR INACCESSIBLE PIPING OR DUCT SYSTENS, ETC. SHALL BE DIMENSIONED AT EACH CHANGE IN DIRECTION. INCLUDE ALL ROUTING OF SERVICES NOT INDICATED ON ORIGINAL DRAWINGS.

NO WAY ALLEVIATES THE CONTRACTOR FROM

15. AS-BUILT DRAWINGS:

SHOWING ALL MAJOR FOUIPMENT AND APPARATUS REQUIRING

ULT IN SHOP DRAWINGS BEING RETURNED "UNREVIEWED" BY

8. ALTER THE LOCATION OF DUCTS OR PIPES AT THE DIRECTION OF THE CONTRACT ADMINISTRATOR WITHOUT CHARCE TO THE CONTRACT ADMINISTRATOR, PROVIDED THE CHARCE IS MADE BEFORE INSTALLATION AND DOES NOT NECESSITATE ADDITIONAL MATERIALS.

6. THE CONTRACTOR SHALL INSTALL PLUMBING, HEATING, VENTILATION AND AIR CONDITIONING SYSTEMS IN COMPLETE ACCORDANCE WITH THE RECOMMENDATIONS OF THE

NATIONAL/PROVINCIAL BUILDING CODE, ASHRAE, SMACNA LATEST EDITION DUCT STANDARDS, AND LOCAL PLUMBING CODES.

ALL WORK SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF

COMPLETED WORK ACCEPTANCE BY THE CONTRACT ADMINISTRATOR. SUBJIT COOMPLETED WORK ACCEPTANCE BY THE CONTRACT ADMINISTRATOR. SUBJIT COUCHENTATION IDENTIFYING ADDITIONAL EDUIPMENT WARRANTY COVERAGE AND TIME FRAMES.

.3 WORK WAY NEED TO BE PERFORMED AT NON-STANDARD HOURS. DETERMINE SCHEDULE WITH CONTRACT ADMINISTRATOR,

THE WORK,

MAINS, FTC.

INCREMENTAL COSTS.

FOLLOWING:

CORNING, APS

DRAFTING SERVICE) TO PRODUCE ELECTRONIC COPY AS-BUILT DRAWINGS. CONTRACTOR SHALL BEAR ALL COSTS OF PRODUCTION.

7. COPY OF FINAL "AS-BUILT" DRAWING SHALL BE SUBWITTED TO CONTRACT ADMINISTRATOR

8. ALL COSTS OF "AS-BUILT" DRAWINGS PRODUCTION SHALL BE BORNE BY THE CONTRACTOR.

16, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, PROVIDE TEMPORARY HEATING AND HOARDING AS REQUIRED FOR THE PROPER PROGRESS OF

17. VERIFY SIZES, INVERTS AND LOCATIONS OF ALL SERVICES PRIOR TO COMMENCEMENT OF WORK. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO SAMUTARY SEWER, STORM SEWER, DOMESTIC WATER MAINS, FORCE

HOISTING OF ALL MECHANICAL EQUIPMENT SHALL BE BY THE

ALL WATERIALS AS REQUIRED, AND CLEAN UP REFUSE CAUSED BY ALL WORK.

20. IDENTIFY ALL NEW PIPING WITHIN BUILDING INSTALLED IN THIS CONTRACT SHOWING SERVICE, PIPE SIZE, AND FLOW DIRECTION. USE CAPITAL LETTERS USING EITHER FRE RESISTANT HIGH GLOSS INTERIOR INAMEL PAINT OR WATERPROOF, HEAT RESISTANT PLASTIC

BANDS, WARKERS,) IDENTIFY AT MAXIMUM OF EVERY 50 FT, AND AT LEAST ONCE IN EACH ROOM, LOCATE AND SIZE LETTERING SUCH THAT IT CAN BE SEEN FROM FLOOR.

22. IN THE CASE OF DISCREPANCY BETWEEN ARCHITECTURAL AND MECHANICAL DRAWINGS TO NUMBER, TYPE, OR LOCATION OF HVAC EQUIPWENT AND SYSTEMS COMPONENTS, OBTAIN WRITTEN RULING.

23. ALL TIME/DATE SENSITIVE ELECTRONIC EQUIPMENT AND SOFTWARE PROVIDED ON THIS PROJECT SHALL BE 4 DIGIT YEAR INPUT COMPATIBLE AND SHALL BE BASED ON THE USE OF FULL UNABBREVIATED, UNAMBIGUOUS DISCRETE TIME AND DATE CODES.

CONTRACTOR SHALL COORDINATE PROVISION OF POWER TO LDING CONTROL TRANSFORMERS WITH DIVISION 16 AND CARRY ALL

25. COORDINATE THE ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH DIVISION 16. DIVISION 16 SHALL PROVIDE THE

26. PROVIDE FIRE STOPPING AT ALL PIPING, CONDUIT (CONTROLS) AND DUCTWORK PENETRATIONS OF ALL REQUIRED FIRE SEPARATIONS WITH APPROVED WATERIAL SYSTEMS. ACCEPTABLE MATERIALS: 3M, DOW.

SECTION 15180 INSULATION

A. ALL INSULATING MATERIALS, METHODS, SIZES AND TYPES OF INSULATION FOR ALL PIPING AND DUCT WORK SHALL BE INSTALLED TO THE REQUIREMENTS OF THE ASHRAE STANDARDS 90.1–2004

ID THE REQUIREMENTS OF THE ASTRAGE STANDARDS SUIT-2004 EVERGY STANDARD FOR BUILDING EXCEPT LOW-RISE RESIDENTIAL BUILDING", STANDARD 90.2–2001 "ENERGY EFFICIENT DESIGN OF LOW-RISE RESIDENTIAL BUILDINGS" AND THERMAL INSULATION ASSOCIATION OF CANADA (TIAC) STANDARDS.

1. PROVDE 1/2" (12 MW) ON PIPING LESS THAN 1 1/2"(38MW) or 1" (25MW) ON PIPING 2"(50MW) OR GREATER THICK RIGID PIPE INSULATION ON ALL DOMESTIC WATER PIPES. INSULATION C/W VAPOUR BARRER,

2. PROVIDE 1" (25 MM) THICK PIPE INSULATION ON ALL PLUMBING VENTS PASSING THROUGH ROOF FOR A DISTANCE OF 10'-0" (3 M) INSIDE FROM POINT OF COLD TO WARM SURFACE PENETRATION.

PROVIDE 1 1/2" (38 NM) THICK FLEXIBLE DUCT INSULATION C/W RFFRK FACING ON EXHAUST DUCTWORK & ALL SUPPLY DUCTWORK FROM ALL AIR HANDLING EQUIPMENT. EXHAUST DUCTWORK SHALL BE

ALL NIN THINKENING EXOMPLITY: EXTINGIT DURING A RELED. INSULATED FOR A MINIMUM DISTANCE OF 10'-0' (3 N) FROM PENETRATION OF BULDING THERMAL ENVELOPE. REFER TO DRAWINGS FOR ADDITIONAL INSULATION REQUIREMENTS. ALL SUPPLY AIR DUCTWORK CONVEYING AIR-CONDITIONED AIR SHALL BE INSULATED.

6. PROVIDE 2° (50 MÅ)/THICK RIGID THERMAL FACED INSULATION ON ALL DUCTWORK CONVENING OUTSIDE AIR COMPLETE WITH RFFRK FADING, DUCTWORK SHALL BE INSULATED OVER ENTIRE RUN ROM PENETRATION OF BUILDING THERMAL ENVELOPE TO UNIT CONNECTION.

7. A DUDSINGALT INVOLATE DUCHTORY MITH I ZO MMY TELABLE NISLAATION WITH FLAME – A THURATED FERRES BOMED WITH HERMOSETTING RESIDE ON DRAFT REAL FOR A STATUS PROVIDE WHERE NOTE DO NO RANKINGS OR AS SHOWN AS HATGHED DUCHTORK OR ALLOW FOR UP TO TO FT, (3 M) FROM SUPPLY AND RETURN AR OPENINGS OF ROOM MOUNTED EQUIPMENT.

8. DO NOT EXTERNALLY INSULATE ANY DUCTWORK WHICH IS SPECIFIED OR SHOWN TO BE INTERNALLY INSULATED UNLESS NOTED OTHERWISE.

3. CROSS HATCHED DUCT WORK REFERENCES INTERNALLY INSULATED, SINGLE HATCH DUCT WORK REFERENCES EXTERNALLY INSULATED, DUCT WORK FROM RT-1, EXPOSED TO THE OUTDOORS, SHALL BE

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EQUIPPED WITH 2" INTERNAL INSULATION AND WATERTIGHT

CONSTRUCTIO

ADDENDUM ITEM #3

9. INSULATION COVERINGS: DUCTWORK RUNNING OUTSIDE BUILDING THERMAL ENVELOPE AND EXPOSED TO THE WEATHER;

ACOUSTICALLY INSULATE DUCTWORK WITH 1" (25 MM) FLEXIBLE DUCT

INSULATION C/W VAPOUR BARRIER.

.0WING: .1 ALL POWER WIRING TO EQUIPMENT. .2 ONE 15 AMP 120V/1PH/60HZ FUSED POWER SUPPLY TO EACH MECHANICAL EQUIPMENT AND/OR JANITOR ROOM.

MARKER TAGS (SIMILAR TO: W.H. BRADY IDENTIFICATION TAPES,

19. ASSUME FULL RESPONSIBILITY FOR LAYING OUT ALL WORK AND ENSURING THAT NO DAMAGE IS CAUSED TO THE CONTRACT ADMINISTRATORS EQUIPUENT AND PREMISES DUE TO UMPORPER LOCATION AND EXECUTION OF WORK IN THIS CONTRACT. PROTECT AND MAINTAIN ALL WORK WINT, WORK HAS BEEN COMPLETED AND ACCEPTED BY THE CONTRACT ADMINISTRATOR. STORE

4. PROJECT RECORD DRAWINGS SHALL BE TRANSFERRED BY CONTRACTOR TO REPRODUDBLE BOND DRAWINGS AND LABELLED "AS-BUILT" 5. SUBMIT REPRODUDBLE BOND DRAWINGS TO CONTRACT JAMMISTRATOR FOR REVIEW UPON COMPLETION IF CORRECTIVE VERSURES ARE REQUIRED AFTER THE SECOND CONTRACT ADMINISTRATOR REVIEW (DUE TO MISSING NYGRMATICN AND/OR MIRROPER DRAFTING STANDARDS). THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTRACT ADMINISTRATORS THE COSTS FOR CORRECTIVE MEASURES, COURSE AND PRINTING COSTS. 6. CONTRACTOR SHALL EMPLOY CONTRACT ADMINISTRATOR(OR CAD DRAFTING SERVEC) TO PRODUCE ELECTRONC COPY AS-BUILT DRAWINGS.

COATS, THE FIRST COAT BEING A TACK COAT APPLIED AT A RATE OF TWO GALLONS PER TO GS. IF (.81 L/SD.M), AND WHIE STILL WET A LAYER OF CHIL-GLAS 45 OPEN WEAVE GLASS CLOTH WEMBRANE SHALL BE EMBEDDED WITH ALL FARRIC COAT AT A COVERACE OF FOUR GALLONS PER 100 SO, FT, (1.6 1/SQ.M) SHALL BE APPLIED, FULLY COVERING THE CLOTH WEWBRANE, SO THAT THE NINNIUM DRY FLM THECKNESS IS 1/16' (0.65') (1.6 WID). THERE SHALL BE TWOELDED, SPRAYED OR WET-BRUSHED TO A SMOOTH EVEN FINISH. PROVDE ALUMINUM JAKKFT.

2. ALL ADJOINNG UNINSULATED SURFACES MUST BE COMPLETELY WATER-PROOFED AND TASHED EITHER BY EXTENDING THE VI-CPTL DT-1011 WEATHER BARRER COATING AND FABRIC UNING MARKE A MINIMUM OF 4" (102 MM) ONTO THE ADJOINNG SURFACE, OR, FI HAT SURFACE MILL ATTAN TEMPERATURES

IN EXCESS OF 180 DEGREES F (82 DEGREES C), USE CHIL-JOINT CP-70 SEALANT AS THE FLASHING COMPOUND.

.1 WASTIC FINISH OVER INSULATION SHALL BE V-CRYL CP-10 WHITE WEATHER BARNER COATING AS WANUFACTURED BY CHILDERS PRODUCTS COUPANY, IT SHALL BE APPLIED IN TWO COATS, THE FIRST COAT BEING A TACK COAT APPLIED AT A

.3 ALL INSULATION IN EXPOSED LOCATIONS, AND ALL DUCTWORK IN FAN ROOMS, SERVICE ROOMS, CARAGES, ETC., SHALL BE COVERED WITH CANVAS WRAP. INSULATION EXPOSED TO THE MOISTURE SHALL BE COMPLETE WITH COVER PER 9.1/9.2 AROVE

10. PIPE INSULATION: .1 ALL PIPING IN EXPOSED LOCATIONS SHALL BE COVERED WITH CANVAS WARP. THIS SHALL INCLUDE PIPING IN FAN ROOMS, SERVICE ROOMS, GARAGES, ETC.

INSULATION EXPOSED TO MOISTURE SHALL BE PROVIDED WITH PVC JACKET (PROTO, OR EQUAL IN ACCORDANCE WITH B6).

.3 ALL PIPING EXPOSED TO OUTDOOR CONDITIONS SHALL BE PROVIDED WITH ALUMINUM JACKETING.

## SECTION 15400 PLUMBING

1. PROVIDE COMPLETE FUNCTIONAL PLUMBING SYSTEM COMPRISED OF DOMESTIC WATER PIPING, VENTS, SANITARY AND DRAINAGE PIPING, RAIN WATER LEADERS, ETC.

2. ALL WATER PIPING ABOVE GROUND INSIDE BUILDING SHALL BE TYPE "L" HARD COPPER; 3RD PARTY CERTIFIED. ALL PIPING BELOW GROUND SHALL BE TYPE "K" SOFT COPPER; 3RD PARTY CERTIFIED.

DRAINS AND VENT PIPING UNDERGROUND INSIDE BUILDING SHALL BE CAST IRON CLASS 4000, OR PVC PLASTIC, FITTINGS SHALL BE MECHANICAL JOINT FOR CAST IRON OR SOLVENT CEMENT FOR PVC.

4. SANITARY WASTE STACKS, HORIZONTAL WASTE, VENT AND RAIN WATER LEADERS, ABOVE GROUND INSDE BUILDING, SHALL BE CAST IRON (CASS 4000, VENT PHING AND NYTURE RUN-ODITS MAY ALSO BE DWV COPPER OR PIVO, PLASTIC, FITTINGS SHALL BE VECHANCAL JOINT GPC RAST IRON, SOLDER FOR DWV COPPER AND SOLVENT CENTENT FOR

5. ALL PVC PLASTIC PIPING USED FOR HIGH-RISE BUILDINGS SHALL HAVE A FLAME SPREAD RATING OF 0, AND A SWOKE DEVELOPED RATING OF 35, PIPING AND FITTINGS SHALL BE OF ONE MANUFACTURE: IPEX SYSTEM 15XFR.

6. CONTRACTOR SHALL VERIFY ON SITE ALL CONNECTION POINTS TO EXISTING BUILDING SERVICES. COORDINATE ALL NEW PIPING RUNS WITH CONTRACT ADMINISTRATOR.

7. USE 95/5 TIN-ANTINONY BRAZING SOLDER ON ALL HOT AND COLD WATER PIPING. USE NON-CORROSIVE NON-LEADED FLUX.

8. ALL VALVES TO BE BY ONE MANUFACTURER. STANDARD OF ACCEPTANCE: JENKINS BROS. LTD.

9. MANUFACTURED SHOCK ABSORBERS, AUTOMATIC AIR VENTS, AND PARTITION STOPS SHALL BE INSTALLED AT THE TOP OF ALL RISERS, AND ON ALL FIXTURES OR BATTERY OF FIXTURES.

10. CONTRACTOR SHALL ALLOW FOR IN TENDER QUDTATION ANY ADDITIONAL LABOUR, WATERIALS, ETC. DEEWED NECESSARY DUE TO EXACT SITE CONDITIONS WHICH HAVE NOT BEEN REFLECTED IN MECHANICAL DRAWNG OR IN MECHANICAL SPECIFICATION. NOTFO CONTRACT ADMINISTRATOR OF ALL DISCREPANCIES PRIOR TO TENDER CLOSE.

ON COMPLETION, ALL PIPING SYSTEMS SHALL BE CLEANED & FLUSHED T TO REMOVE ANY FOREIGN WATERIAL IN THE PIPING.

12. GAS PIPING SHALL BE BLACK STEEL PIPE, EQUAL TO ASTM A-53 SCH. 40 WTH 150 LBS. STANDARD BLACK MALLEABLE RON SCREWED FITTINGS ALL WORK SHALL COMPLY WITH C.G. & 1849.1-00 "NATURAL GAS AND PROPARE INSTALLY ON CODE", COMPLETE WITH DEPARTMENT OF LABOUR GAS NOTICIS: AND SHALL BE PERFORMED BY FULLY QUALIFIED GAS FITTERS AND/OR WELDERS LICENSED TO PRACTICE IN THE PROVINCE OF MANITOBA.

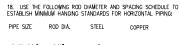
13. VALVES IN GAS PIPING SHALL BE GRINNELL FIG. C.G.A. OR EQUAL IN ACCORDANCE WITH B6.

14. RUN GAS PIPING TO SERVE CONTRACT ADMINISTRATOR'S EDUIPKENT. A TAKE OUI PERMITS AND CONNECT EDUIPKENT READ'T FOR USE, PROVIDE GAS REGULATORS TO SERVE NEW GAS FRED EDUIPMENT, GAS REGULATORS SHALL BE C.G.A APPROVED AS MANUFACTURED BY FISHER, OR EQUAL IN ACCORDANCE WITH B6, PROVIDE GAS <u>COCK</u>, DIRY LIG AND FLENDEL CONNECTIONS AT EACH PREC O'F

15. CONTRACTOR SHALL COORDINATE SERVICE INSTALLATIONS AND/OR MODIFICATIONS WITH LOCAL UTILITY PRIOR TO COMMENCEMENT OF WORK PAY ALL COSTS AND/OR FEES.

16. CONTRACTOR SHALL PROVIDE PRE-ASSEMBLED AND PRE-TESTED OVER-PRESSURE RELIEF REGULATORS AND VENT ASSEMBLES ON ALL PROPANE AND NATURAL GAS PIPING SYSTEMS GREATER THAN 7" M.C., INSTALLED AT EACH APPLANCE AND/OR EQUIVENT. INSTALLATION AND REQUIREMENTS TO MEET THE CAN/CSA-B149.1-05 AND TSSA/MB. DEPT, OF LABOUR REQUIREMENTS.

17. PROVIDE DIELECTRIC COUPLINGS WHEREVER PIPES OF DISSIMILAR METALS ARE JOINED.





19. PIPE HANGERS WHERE REQUIRED SHALL BE GRINNEL FIG.65 FOR STEEL PIPE AND FIG.117 EXPANSION CASE SET IN HOLES DRILLED IN CONCRETE OR ATTACHED TO FIG.225 OR 227 CLAWF ATTACHED TO FLOOR JUST AND ROOF JUST. FOR INSULATED PIPING, PROVDE PROTECTION FIG.167 SADDLES SIZE HANGER TO ACCOMMODATE INSULATION WHERE APPLIED.

AMERICAN STANDARD'MADERA ELONCATED 16-1/8" (410M/) HIGH #2305.100 1.0W CONSUMPTION TOLET, FLOOR MOUNTED FOR FLUSH WAVE, MITEODIS OHINA, ELONCATED SYPHON LET FLUSH A CONSUMPTION BOWL, FULLY GLAZED 2' (50M/) BALL PASS INTERNAL TRAPHAY, 10" X 12" (234M/) X30M/) LIADE WATER SURFACE, 13 GAL. (6L) FLUSH, L-1/2" (38M/) TOP SPUD AND BOLT CAPS. PROVIDE FLOOR FLUSH, CLAZED 2' (50M/) PAUD BOLT CAPS. PROVIDE FLOOR FLUSH, CLAZED 2', CLAW, WATER SURFACE, 13 GAL. (6L) FLUSH, L-1/2" (38M/) TOP SPUD AND BOLT CAPS. PROVIDE FLOOR FLUSH, VALUE, DUCK STAND, GASKET, SLOWN 'REGAL' MITH-GAL ADDING MARGINE FOLT SOLUTION, FACTORE, VALUEN ADDING MARGINES CENT ENVIREMENT SOLITON FEADURET BUTOR MARGINES CENT ENVIREMENT ACTION SOLID MARGINE ADDING MARGINES CENT ENVIREMENT ACTION SOLID MARGINESTIC ADDING MARGINES CENT ENVIREMENT ACTION SOLID MARGINESTICAL ADDING MARGI

AMERICAN STANDARD "MURRO" #0954.000 BASIN, 4" (102MM) LI AMERICAN SIANDARD MURRO #USSA.000 BASIN, 4 (102MM, CENTRES, 22" X 21"X 5 - 7-1/2" (559WM X 533MM X 127-191MM) DEEP, WALL HUNG, VITREOUS CHINA, REAR OVERFLOW, FOR CONCEALED ARM SUPPORT, CHICAGO FAUCETS #802-V-XK FAUCET,

WC-1 TOILET - FLOOR MOUNTED FLUSH VALVE (BARRIER FREE DESIGN)

CENTOCO WEQUEST ELONGATE HEAVY DUTY SOLD PLASTIC OPEN FRONT WITH COVER, REINFORCED STAINLESS STEEL CHECK HINGE, POSTS, WASHERS AND NUTS.

L-1 BASIN - WALL HUNG (BARRIER FREE DESIGN AND GENERAL USE) FOR TIGHT SPACE AREAS

C.P. 4" (102MM) C.C., SOLID CAST BRASS LEAD-FREE BODY, 1/4 TURN CERAMIC DISC VALVE CARTRIDGES, WITH VANDAL-RESISTANT

I URN CERAMIC DISL VALVE CARITODES, WIH VANDAL-RESISTAN I SA GPN (B) FIOM AFRATO OUTET AND CAST BRASS LEVER HANDLES MCGURE #155A DRAIN, C.P. OPEN GRD, MCGURE #1700VRB SUPPLIS, C.P. POUSFED, SHORT HORZONTIAL NTEGRAL SWEAT TUBES WITH V.P. COMBINATION WHELE HANDLE\_ACOGS KEY BALL VALVE ANGLE STOPS, SEQUICHEONS AND BRADED FLEXBLE RISERS. MCGURE #8872C 'P. TRAP. C.P.

DRADED FLEXIBLE INSERS, MOUNTE #0072C P INAP, CL", POLISHED, CAST BRASS 1-1/47 (32MM) WITH CLEANOUT AND ESCUTCHEON, SMITH SERIES #0700-W CARRER, WITH STEEL PIPE LEGS, BLICKS BASES FEET SUPPORT, CONCEALED ANKS AND PEDESTAL ID CARREN, MARCHAN STANDARD #0059.002 SHI-CHINA PEDESTAL TO COVER EXPOSED PIPING AS PER LOCAL CODES.

REQUIRED BY LOCAL CODE PROVIDE TRAP PRIMER CONNECTION 'P'.)

.1 SM/TH 'TWS-TO-FLOOR' SERIES 4220 FLOOR CLEANOUT, DUCO COATED CAST IRON BODY AND REMOVABLE POSITIVE CASHET SEAL COSUBE FLUE AND HEAVY DUTY OF (150M/M POUND ADJUSTABLE SCORITED CAST ROUN COVER SECURED WITH STANLESS STELE SCREW, C.O. CAST IN COVER, (FOR WATER-PROOFED AREAS PROVIDE 'TC' FLANCE WITH FLASHING CLAWP).

.1 SMITH SERIES 4510 STACK CLEANOUT, IN BASE OF CAST IRON STACKS WITH INCOPERING CASKETED PLUG, WHERE CLEANOUTS ARE CONCEALED BEAND FORSHELD WALLS ACCESS SHALL BE WADE BY SMITH 4530 ROUND STAINLESS STEEL PLATE AND SLOTTED FLAT HEAD STAINLESS STEEL SCREW.

.1 P.P.P. INC. MODEL PR-500 AUTOMATIC TRAP SEAL PRIVER VALVE, CAST BRASS BODY, SERVING 1 OR 2. MOLVIDUAL OR REMOTE AREA DRAINS (PRIVER AUTOMATICALLY ACTIVATED WHEN THERE IS A PRESSURE DROP NI THE SYSTEM) WITH 1/2" (12.7MM) NPT (MTO") CONNECTIONS WITH STRAINER AND INTEGRAL BOAS FLOW PREVINER & VACUUM BREAKER, (FOR TWO DRAIN PRIVER PROVIDE UNIT MITH ASSCHIRT Y AUTO-7CSR)

1. SMITH 'HYDROTROL' WATER HANWER ARRESTORS SERIES #5000, STANLESS STELL, PRESSURIZE OHAMBERS, BELLOWS, SIZE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS CHART BELOW TO ELIMINATE WATER HANGER AND SHOCK FROM PURING SYSTEM. PROVDE WATER HANMER ARRESTORS ON HOT AND COLD WATER SUPPLIES TO ALL OUCK VALVES, SOLENDOS, AND PLUMBING FITTURES, AND LOCATE IN AN UPRICHT POSITION BETWEEN THE LAST TWO FRITURES ON A LINE, OR HORIZONTALLY AT THE END OF LINE CLOSEST TO SUPPLY SOURCE.

5005 1/2" (12MM)

SECTION 15800 HEATING, VENTILATION & AIR CONDITIONING

1. PROVIDE SUPPLY, RETURN AND EXHAUST AIR DUCT SYSTEM'S FROM AIR HANDLING EQUIPMENT AND FANS AS SHOWN.

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

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

ROUND AND OVAL DUCTWORK SHALL BE SPIRAL CONDUIT CONSTRUCTION OF ZINC COATED STEEL OF THE FOLLOWING U.S

GAUGE OF METAL

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

DUCTS UP TO 12" ON LONGEST DIMENSION 26 GA.

DUCTS 13" TO 28" ON LONGEST DIMENSION 22 GA. DUCTS 29" TO 54" ON LONGEST DIMENSION 22 GA. DUCTS 55" TO 84" ON LONGEST DIMENSION 20 GA.

1. WELDED STAINLESS STEEL (WATERTIGHT CONSTRUCTION) SHALL BE USED ON THE SUPPLY AND RETURN DUCT MAINS SERVING RT-1, ONLY IN AREAS MUNIC AEXTEND THROUGH THE INDOOR EXHIBIT AREA 106. GALVANIZED WETAL DUCT WORK FOR ALL OTHER SUPPLY AND RETURN DUCT WORK SHALL BE ACCEPTABLE.

SIZE FIXTURE UNITS MODEL NO. CONN. SIZE

TP-1 TRAP SEAL PRIMER SERVING 1 TO 2 DRAINS

CD-1 FLOOR CLEANOUT (UNFINISHED AND OUTSIDE AREAS)

1 SMITH SERIES 2005A FLOOR DRAIN, ALL DUCO COATED CAST IRON BODY, RYVERSBLE FLASHING CLAMP WITH SEEPAGE OPENINGS AND ADJUSTABLE 5 (127MU) DAMETER INCREE BROXEE 174 (6:34MU) THICK STRAINER, SECURED WITH S.S. SCREWS, 4' (100MU) THROAT ON STRAINER. (WHERE

FD-1 FLOOR DRAINS - FIN, AREAS

CD-2 STACK CLEANOUT

ASSEMBLY #DU-2/SS8)

WHA WATER HAMMER ARRESTORS

1 - 11

4. DUCT CONSTRUCTION:

CONDUIT SIZE 8" AND SMALLER

38" 10.50"

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ADDENDUM 1

5. DUCT SIZES INDICATED ON DRAWINGS REFERENCE INTERNAL DIMENSIONS. ALL SEAMS AND JOINTS IN ROUND OR OVAL DUCT FITTINGS SHALL BE CONTIGUOUSLY WELDED, RE-COAT ZINC COATING DAMAGED BY WELDING PROCEDURE.

5. BALANCING DAWPERS SHALL BE CONSTRUCTED FROM GALVANIZED STEEL 2 GAUGES HEAVIER THAN THE DUCTWORK IN WHICH THEY ARE

INSTALLED C/W LOCKING QUADRANT AND INDICATING DEVICE.

6. TURNING VANES SHALL BE CONSTRUCTED TO THE FOLLOWING REQUIREMENTS: HEQUIRMENTS: – USE DUCT ELBOWS WHICH HAVE A THROAT RADIUS OF 1–1/2 TIMES THE DUCT DIAMETER. – WHERE SPACE IS LIMITED, USE DUCT ELBOWS FABRICATED WITH SPACE THROATS AND BACKS AND FITTED WITH ROVANE TURNING

7. THE FOLLOWING DUCT JOINING METHODS SHALL BE USED; - PITTSBURGH LOCK OR DOUBLE SLUDE LOCK HAMMERED FLAT FOR LONGTUDINAL JOINTS ON STRAIGHT DUCTWORK. - PITTSBURGH LOCK FOR CORNER LOCK OF FITTING.

- FLAT DRIVE CLEAT JOINT ON ALL SIDE JOINTS 18" (450MM) AND UNDER IN LENGTH,

ANGLE "S" OR STANDING DRIVE CLEATS ON ALL SIDE JOINTS

AND UNDER IN LENGTH

ELAT SUP CLEAT JOINT ON ALL TRANSVERSE JOINTS 18" (450MM)

ANGLE "S" OR STANDING DRIVE CLEATS ON ALL SDE JOINTS 19'(475MM) TO 30'(750MM) ON HEIGHT.
 STANDING "S" OR STANDING DRIVE CLEATS ON ALL TRANSVERSE JOINTS 19'(475MM) TO 30'(750MM) IN LENGTH.
 ANGLE "S" OR STANDING DRIVE CLEATS ON ALL TRANSVERSE AND SIDE JOINTS 31'(725MM) TO 72'(1800MM).
 STANDING "S" OR STANDING DRIVE CLEATS REINFORCED WITH 1 1/2'(38MM) X 4.5MM INLD STEEL BAR ON ALL TRANSVERSE AND SIDE JOINTS 73'(1825MM) AND OVER.

BAND STOLELER DARFERS WHICH CONFORM TO NFPA REGULATIONS, BEAR ULC LABEL, AND HARE APPROVAL OF AUTHORITY HAWNG JURISDICTION. DARFERS TO BE TYPE 19' AND '(UNLESS OTHERWISE NOTED)AND INSTALLED IN DUCTWORK AT FRE SEPARATIONS WHICHER SHOWN OR NOT, VERIFY LOCATIONS ON ARCHITECTURAL DRAWINGS.

SUPPORT HORIZONTAL DUCTS ON MAXIMUM 8'-0" (2.4 M)CENTERS BY

PROVIDE ACCESS DOORS WHERE REQUIRED FOR SERVING OF EQUIPMENT

12. PROVIDE 4" (100  $\dot{M}\dot{M}$ ) FLEXIBLE DUCT CONNECTIONS ON BOTH INLET AND OUTLET DISCHARGE SIDES OF EACH FAN.

13. PROVIDE ONE SPARE SET OF FILTERS FOR EACH AIR HANDLING UNIT.

14. ALL DUCT MOUNTED MOTORIZED DAMPERS SHALL BE INSULATED LOW LEAKAGE TYPE TO TAMCO 9000 OR EQUAL IN ACCORDANCE WITH B6.

15. PROVIDE VIBRATION ISOLATORS FOR ALL NECHANICAL EQUIPMENT, INCLUDING PUMPS, UTILITY FANS, AND VENT SETS, AR HANDLERS, ROOF-TOPS UNITS, CONDENSING UNITS, COMPRESSED, ETC. AS APPLICABLE, SUBMIT SHOP DRAWINGS PRIOR TO INSTALLATION.

16. BACK-DRAFT DAMPERS SHALL BE PROVDED (WITH THE FOLLOWING MINIMUM REQUREVENTS: - 16 GA. GLAVAIZED STELE OR ALUMINUM CHANNEL FRAME; 16 GA. GALVANIZED BLADES C/W STEFEDRES, FULL BLADE-ENDTH SHAF BRASS, BALL OR MIXON BUSHING: FELT OR NFORME ANTI-CHATTER BLADE STRIPS; ADJUSTABLE COUNTER-BALANCE.

17. CHINNEYS AND BREECHING SHALL BE LABORATORY TESTED AND LISTED BY THE UNDERWRITERS LABORATORIES INC. FOR USE WITH BUILDING HEATING COUPKINT BURNING ANTURAL CAS OR PROPANE CAS, AS DESCRIBED IN NFPA 211, SECTION 60. THE DOUBLE WALL STACK SHALL HAVE NO UTER JACKT OF GALVANUED STELE CONFORMING TO ASTM A520, THERE SHALL BE AN AIR SPACE BETWREEN THE WALLS. THE INNER GAS CONVEYING PINE SHALL BE AN AILMINIUM ALLOY – JOINTS TO BE SEDURED WITH SHEET METAL SCREWS.

19. PROVIDE BASE TEE WITH CLEANOUT, ROOF FLASHING AND VENT CAP FOR ALL EQUIPMENT AS REQUIRED.

20. ALL AIR SYSTEMS SHALL BE BALANCED AND TESTED BY A DERTIFED A.A.B.C. MDEPENDENT BALANCING AGINCY TO PROVIDE OUANTIES AS SHOWN, PROMOE THREE(3) SETS OF BALANCING ERPORTS SHALL INCLUBE FIRE DAMPER TESTING AND CERTIFICATION.

LBP/15A/1000 LINEAR BAR SUPPLY GRILLE, DUCT MOUNTED, PROVIDE ACOUSTIC LINED DUCT BOOT. (BOOT SIZE (I.D.): FACE AREA OF GRILLE X 12HIGH"). ALUMINUM FINISH.

530/F/L/A/B12 SIDEWALL RETURN/TRANSFER GRILLE.

620DAL/B12 DUCT MOUNT ALUMINUM GRILLE C/W

D 520/F/L/A/B12 SIDEWALL SUPPLY GRILLE, DUCT WOUNTED.

1. THE PONTS BELOW DESCRIBE THE CONTROL SEQUENCE OF THE H V.A.C. EQUIPHENT SPECIFIED IN THE SOHEDULES. ALL CONTROLS TO BE SUPPLED BY DN. 15 AND WRED BY DV: 15, AND SHALL BE THE COMPLETE RESPONSIBILITY OF THIS DIVISION. PROVIDE LOCKALE COVERS FOR ALL THERMOSTATS. NEW OR EXISTING. ALL CONTROL WIRING SHALL BE RUN IN WEATHERPROOF PVC CONDUL.

KE-DUP AIR UNIT (MUA-T) PROVIDE INDOR CONTROL PANEL WITHIN BASEMENT SERVICE AREA FOR AIR TEMPERATURE SELECTOR, AND DISCHARGE AIR TEMPERATURE SENSOR. HEATING SECTION SHALL CYCLE AS REQUIRED TO MAINTAIN DISCHARGE AIR

TEMPERATURE SENSOR. ALL HEAT RECOVERY/DEFROST CONTROLS SHALL REMAIN INTEGRAL TO THE EQUIPMENT

.2 PROVIDE MANUAL HI-LOW SELECTOR SWITCH FOR MANUAL CONTROL OF FAN SPEED.

PROVIDE CHIMNEYS AND/OR BREECHING FOR:

GAS-FIRED (INDIRECT) MAKE-UP AIR UNITS.

MECHANICAL EQUIPMENT SCHEDULES:

TYPE DESCRIPTION

ADDENDUM 1 /

ITEM #2

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15900

CONTROLS

MAKE-UP AIR UNIT (MUA-1)

.1 DIFFUSERS AND GRILLES: (BASED ON PRICE)

ALL NEW DUCTWORK SHALL BE SEALED USING DUCT BOND II HIGH PRESSURE, NON-TOXIC, DUCT SEALER THROUGHOUT ALL SEAMS AND JOINTS.

PERFORATED GALV. STEEL RIVETTED STRAP FOR DUCTWORK 36" (915

MM) (EITHER DIMENSION) OR LESS, AND MINIMUM 1" X 1 X 1/8" (25 X 25 X 2 MM) GALV, IRON UNDER DUCTS OVER 36" (915 MM)

(EITHER DIMENSION) WITH 3/8" (6 MM) DIAM, THREADED RODS SUSPENDING ANGLES FROM STRUCTURE.

PLUMBING FIXTURES AND EQUIPMENT:

| <ol> <li>MUA-T TO GPERATE YA WILL MOINT HUMDITY SENSOR WITHIN<br/>NODOR EXHIPT NO HUMDISTY IN BASQUENT SENSOR WITHIN<br/>DETECTION OF LEVATED HUMDITY LEVELS, MUA-T SHALL ENERGIZE<br/>AT FAN SPEED AS DETERMINED BY FAN SELECTOR SWITCH.<br/>MUA-T SHALL DE-ENERGIZE ONCE HUMDITY LEVELS FALL BELOW<br/>SEIPONT.</li> <li>PROVDE WANUAL D-6 HOUR OVERRIDE TIMER TO ENERGIZE<br/>WUA-T AT FAN SPEED AS DETERMINED BY FAN SELECTOR SWITCH.<br/>MUA-T SHALL DE-ENERGIZE ONCE MUMDITY LEVELS FALL BELOW<br/>SEIPONT.</li> <li>PROVDE WANUAL D-6 HOUR OVERRIDE TIMER TO ENERGIZE<br/>WUA-T AT FAN SPEED AS DETERMINED BY FAN SELECTOR SWITCH.<br/>MUA-T SHALL DE-ENERGIZE ONCE MANUAL INTER DURATION HAS<br/>EXPRED.</li> <li>ALL DAMPERS SHALL FULLY CLOSE IN UNOCCUPIED WODE.</li> <li>ROOF TOP UNIT (RT-1):</li> <li>PROVIDE PROGRAMMABLE THERMOSTAT C/W NIGHT SETBACK,<br/>OCCUPIED JUNCOLIPIES OFHEIDLE DURING UNOCOUPED<br/>WOOE, ALL OUTDOOR AR DAMPERS SHALL REMAN CLOSED.</li> <li>IAD CO2D SENSOR AT RETURN PENUN MLET SHALL OPERATE TO<br/>ECONOMIZER DAMPERS BASED ON OCCUPANT DEMAND.</li> <li>ROOFTOP UNIT (RT-2) - ITELIZED PRICE:</li> <li>PROVIDE PROGRAMMENT MEMORY AT C/W REMOTE SPACE<br/>SENSOR; THERMOSTAT MOUNTED IN BASEVENT SERVEC<br/>AREA.</li> <li>MUA-T: GKS FIRED WAR UNIT/HEAT RECOVERY VENTILATOR</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | bridgmancollaborative                                                                                                                                                                                                                                                              |
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| <ol> <li>MARE-UP AR UNIT SHALL BE AN OUTDOOR PACKAGED ENGINEERED AR<br/>DESCA WITH FORMARD, OLIVE, SUPPLY AND RELINE BLORES WITH<br/>PILLOW BLOCK BANKS, MORANDALL BECHENCE ON RETURN AR,<br/>WITH Y PLEATED FLITERS, EXHAST AR FLITER SYSTEM, NELT<br/>VIEW Y PLEATED FLITERS, EXHAST AR FLITER SYSTEM, NELT<br/>VIEW Y PLEATED FLITERS, EXHAST AR FLITER SYSTEM, NELT<br/>VIEW GET DAWLEL INNS: COLUMN TO BE BLASK TO INTO<br/>PILL BLACKET, HISLIADON THROUGHOUT, 16 GA. CONSTRUCTION<br/>WITH GET DAWLEL INNS: COLUMN TO BE BLASK MOUNTED.</li> <li>HARING LUYLL AND HARDLENDY COLUMN TO BE BLASK MOUNTED.</li> <li>HARING LUYLL AND HARDLENDY COLUMN TO BE BLASK MOUNTED.</li> <li>HARING LUYLL AND HARDLENDY SAND ACCESSORIES SHALL BE<br/>APPROVED BLAY HAN DEPENDENT ESING AUTHORITY AND CARRY THE<br/>APPROVE LABLE OF THAT AUTHORITY AS A COMPLETE OPERATING<br/>PACKAGE.</li> <li>ALTEFROINSY AT LOGH TREE. HEAT ECOMMERY SHALL BE<br/>THANNON STANLESS STELL. WITH MULTI-FLARE LEVEN<br/>DESCA, HEAT EXCHANGER SHALL BE PROVIDE WITH CONDENSITE<br/>DESCA, HEAT EXCHANGER SHALL BE PROVIDE WITH CONDENSITE<br/>DESCA, HEAT EXCHANGER SHALL BE REAVINED THAT OF STELLOY<br/>DESCA, HEAT EXCHANGER AND ALE DESCANDER AND ALE STELLOY<br/>DESCAND. THAT EXCHANGER AND ALE BE REAVINED THAT OF STELLOY<br/>DESCAND. THAT EXCHANGER AND ALE BE REAVINED THAT ALL AND ALE SECULY<br/>WINNUM MULT SHALL BE CRAALE OF CONTROLLON STATE<br/>STELLON THAT AND ALL AND ALE CRAALE AND ALL ALL ALE ALL AND ALL<br/>STELLON THAT ALL ALL ALL ALL ALL ALL ALL ALL ALL A</li></ol> | 678 MAIN STREET WINNIPEG, MB R3B 1E4<br>678 MAIN STREET WINNIPEG, MB R3B 1E4<br>COL 488 3857 tel. 204 488 0216 fax.<br>COL 488 0216 fax.<br>Www.bridgmancollaborative.ca<br>COL 498 0216 fax.<br>MWW.bridgmancollaborative.ca<br>COL 498 0216 fax.<br>MWW.bridgmancollaborative.ca |
| 201-120 FORT STREET NOT A SENGINEERING LTD.<br>201-120 FORT STREET STREET CONSULTING ENGINEERING -<br>WINNEG, MANTIGA FAX, (2004) 943-6142<br>WINNEG, STREET, STREET STREET, STREET<br>STREET, STREET, ST                                               | Project Number: 0714 Date: MAR.12/09 Issued For: ADDENDUM Sheet No: MAR                                                                                                                                                                                                            |