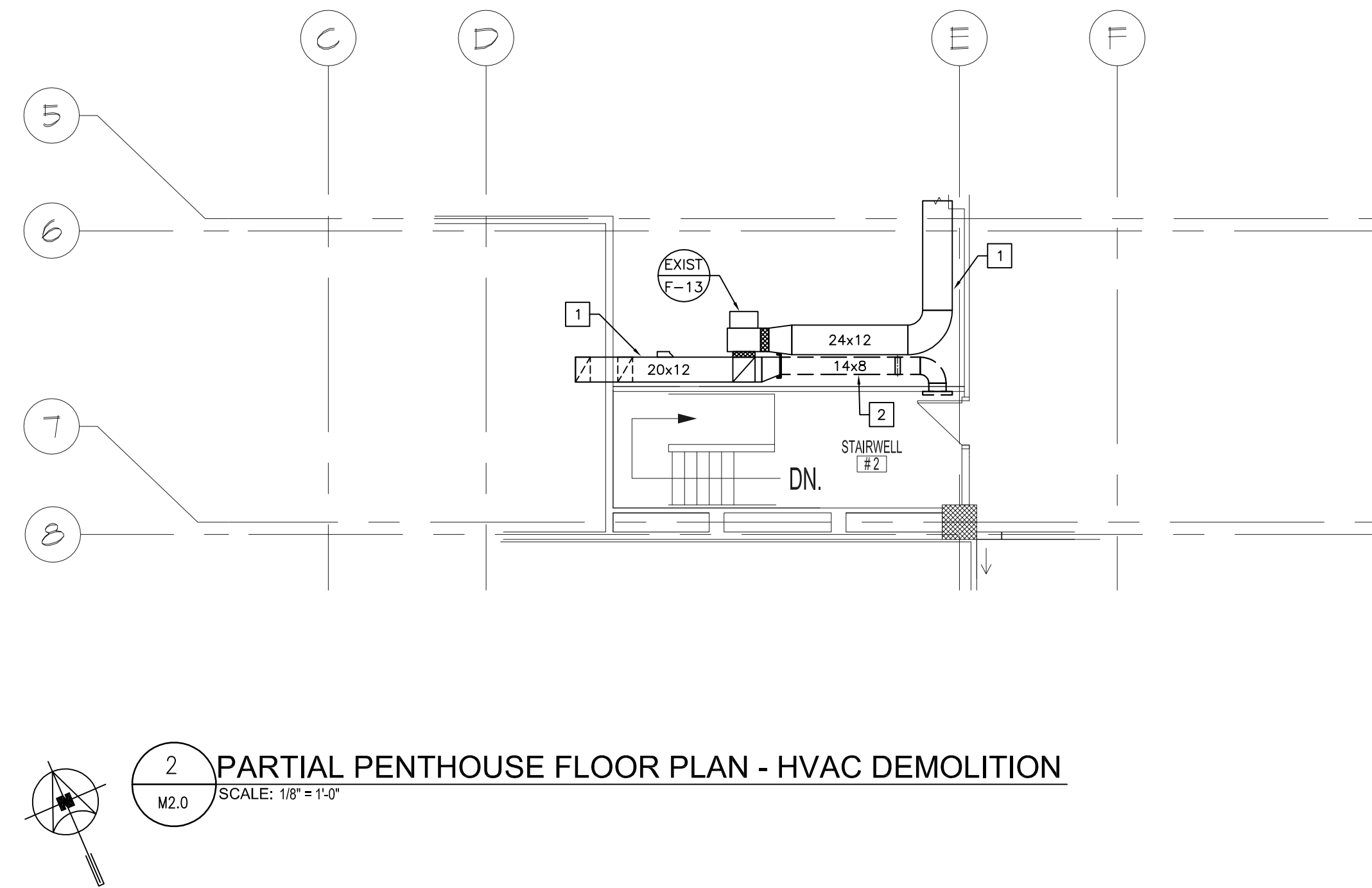


1 PARTIAL PENTHOUSE FLOOR PLAN - HVAC DEMOLITION

M2.0 SCALE: 1/8" = 1'-0"



2 PARTIAL PENTHOUSE FLOOR PLAN - HVAC DEMOLITION

M2.0 SCALE: 1/8" = 1'-0"

GENERAL NOTES

- A. DO NOT SCALE OFF THIS DRAWING. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO INSTALLATION AND SHALL REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR.
- B. ALL EXISTING MECHANICAL EQUIPMENT AND ASSOCIATED PIPES AND DUCTWORK TO REMAIN UNLESS NOTED OTHERWISE.
- C. CONFIRM EXACT SIZES AND LOCATIONS FOR ALL EXISTING SERVICES ON SITE.

DEMOLITION KEY NOTES

- 1. EXISTING DUCTWORK TO REMAIN SHOWN FOR GENERAL INFORMATION PURPOSES ONLY.
- 2. EXISTING EXHAUST BRANCH C/W EXHAUST GRILLE TO BE REMOVED AND CAPPED OFF APPROXIMATELY AS SHOWN. EXISTING WALL PENETRATION SHALL BE FILLED BY ARCHITECTURAL DIVISION, TO MATCH EXISTING WALL CONSTRUCTION.

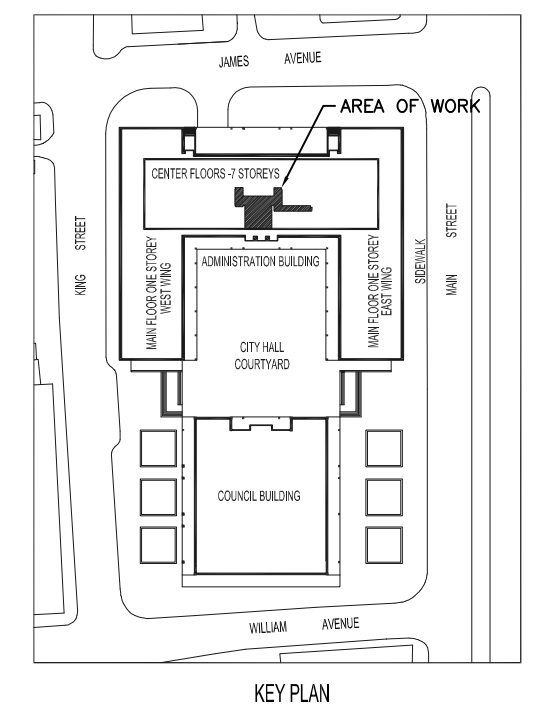
MECHANICAL SPECIFICATION

- 1.0 GENERAL
- 1. VISIT JOBSITE DURING BID OPPORTUNITY. DRAWINGS INDICATE APPROXIMATE LOCATION OF EXISTING MECHANICAL EQUIPMENT AND SERVICES. VERIFY EXACT LOCATIONS OF EXISTING MECHANICAL EQUIPMENT AND SERVICES AND ALLOW FOR NECESSARY RECONNECTION TO EXISTING SERVICES TO SUIT NEW CONSTRUCTION.
 - 2. ALL WORK SHALL CONFORM TO MANITOBA BUILDING CODE AND LOCAL AUTHORITIES. APPLY FOR, OBTAIN AND PAY FOR ALL NECESSARY PERMITS.
 - 3. COORDINATE INSTALLATION WITH ALL RELATED TRADES. ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS. VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING EQUIPMENT AND SERVICES PRIOR TO PROCEEDING WITH WORK.
 - 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 CITY'S REPRESENTATIVE.
 - 7. ALL NECESSARY CUTTING AND PATCHING SHALL BE PERFORMED BY CONTRACTOR. CONTRACTOR TO CO-ORDINATE ON SITE.
 - 8. ALL INTERIOR SPACE POWER HAMMERING, DRILLING AND OTHER NOISY WORK SHALL BE COORDINATED WITH THE CITY.
 - 9. BID QUOTATIONS SHALL BE BASED ON THE USE OF SPECIFIED EQUIPMENT, UNLESS ACCEPTANCE FOR THE USE OF EQUAL MANUFACTURERS IS OBTAINED FROM THE CONTRACT ADMINISTRATOR PRIOR TO SUBMISSION OF BIDS. ALTERNATE MANUFACTURERS MAY BE QUOTED AS AN INCREASE OR DECREASE AMOUNT TO THE BID PRICE, WITHOUT PRIOR ACCEPTANCE OF THE CONTRACT ADMINISTRATOR.
 - 10. PROVIDE A MARK-UP OF THE CONTRACT DRAWINGS FOR RECORD "AS-BUILT" DRAWINGS, REVISED AS REQUIRED TO SHOW ANY CHANGES FROM THAT ORIGINALLY SHOWN.
 - 11. PROVIDE AS-BUILT DRAWING IN AUTOCAD FORMAT, COMPLETE WITH DISK PAID FOR BY CONTRACTOR.
 - 12. ALL DUCTWORK TO BE INSTALLED STRAIGHT, PARALLEL TO THE BUILDING WALLS.
 - 13. FIRESTOPPING PROVIDED UNDER ARCHITECTURAL SECTION.
 - 14. INSTALLATION OF WORK SHALL BE COORDINATED WITH THE CONTRACTOR AND SHALL BE SCHEDULED SO AS NOT TO ENDANGER OR DISTURB THE CITY OR USERS OF THE BUILDING. SHUTDOWN OF EXISTING BUILDING SYSTEMS SHALL BE COORDINATED WITH THE CITY'S REPRESENTATIVE.
 - 15. PRIOR TO INSTALLATION OF THE CEILING, NOTIFY THE CONTRACT ADMINISTRATOR AND ARRANGE FOR A FINAL REVIEW OF THE WORK. FOR UNDERTAKING THIS REVIEW, THE FOLLOWING SHALL BE COMPLETED:
 - 1. ALL SYSTEMS TO BE FULLY OPERATIONAL. AS-BUILT DRAWINGS SUPPLIED AND OPERATING AND MAINTENANCE MANUALS SUBMITTED. TWO (2) DAYS NOTIFICATION (IN WRITING) IS REQUIRED TO BE GIVEN TO THE CONTRACT ADMINISTRATOR PRIOR TO REVIEWS BEING UNDERTAKEN.
 - 2. ALL DEFICIENCIES SHALL BE COMPLETED WITHIN TWO (2) WEEKS OF AN AGREED PERIOD OF TIME AFTER FINAL REVIEW AND A LETTER SHALL BE SUBMITTED TO THE CONTRACT ADMINISTRATOR WITHIN THAT TIME ADVISING OF SUCH. FAILURE TO COMPLETE WORK MAY RESULT IN WORK BEING DONE BY THE CITY AND THE COSTS DEDUCTED FROM FINAL PAYMENT.
- 2.0 INSULATION
- 1. INSULATE CONDITIONED AIR DUCTWORK WITH 1" FIBERGLAS RFFRK FLEXIBLE DUCT INSULATION INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 3.0 FIRE PROTECTION
- 1. PROVIDE LABOUR, MATERIAL, PLANT, TOOLS, EQUIPMENT AND SERVICES NECESSARY TO COMPLETION OF SPRINKLER SYSTEM AS SHOWN ON DRAWINGS.
 - 1. COMPLY WITH ALL REQUIREMENTS OF THE CITY'S FIRE INSURANCE UNDERWRITER AND AUTHORITIES HAVING JURISDICTION. DESIGN AND INSTALLATION SHALL COMPLY WITH THE MOST RECENT EDITION OF NFPA #13 AND ALL APPLICABLE PROVINCIAL AND LOCAL LAWS AND ORDINANCES.
 - 2. SUBMIT SHOP DRAWINGS TO THE CITY AND AUTHORITY HAVING JURISDICTION AND OBTAIN APPROVAL PRIOR TO INSTALLATION. SHOP DRAWINGS SHALL SHOW NEW PIPING AND SPRINKLER HEADS, CEILING CONSTRUCTION, HEIGHTS, LIGHTS, MECHANICAL DIFFUSERS, AND CEILING DROPS.
 - 2. MATERIALS
 - 1. ALL MATERIALS SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF NFPA #13 - SPRINKLER SYSTEMS.
 - 2. NO PLASTIC PIPING, SNAPLET, F.I.T. HOOKER, OR SIMILAR TYPE FITTINGS WILL BE PERMITTED.
 - 3. INSTALLATION
 - 1. RUN ALL SPRINKLER PIPING AS HIGH AS POSSIBLE ABOVE SUSPENDED CEILING SYSTEM AND MAIN AND/OR BRANCH PIPING RUNS.
 - 2. WHERE REQUIRED MAKE ARRANGEMENTS WITH VENTILATION SUB-TRADE TO PROVIDE EXEMPTS IN DUCTWORK TO FACILITATE INSTALLATION OF SPRINKLER PIPING. COORDINATE INSTALLATION WITH VENTILATION SUB-TRADE, AND PAY COSTS.
 - 3. ADJUST, RELOCATE AND ADD SPRINKLER HEADS AND PIPING TO SUIT PARTITION LAYOUT IN ACCORDANCE WITH NFPA 13, AND CITY OF WINNIPEG REQUIREMENTS.
 - 4. THE SPRINKLER CONTRACTOR SHALL VISIT SITE TO CONFIRM SPRINKLER HEAD CHANGES AND REQUIREMENTS PRIOR TO PRICE SUBMITTAL. NO EXTRA COST SHALL BE PAID FOR WORK DONE THAT HAS TO BE RECTIFIED AS A RESULT OF THE CONTRACTOR'S FAILURE TO EITHER COORDINATE THE WORK OR IDENTIFY ANY POTENTIAL PROBLEMS PRIOR TO INSTALLATION.
 - 5. NEW SPRINKLER HEADS SHALL MATCH EXISTING SPRINKLER HEADS AND SHALL BE ULC APPROVED.
 - 6. NOTIFY THE CITY PRIOR TO DRAINING AND/OR REFILLING SPRINKLER SYSTEM. DISCONNECT EXISTING SYSTEM FROM MAIN SYSTEM, PERFORM THE WORK, TEST, AND RECONNECT TO THE MAIN SYSTEM.
- 4.0 VENTILATION
- 1. DUCTWORK
 - 1. GALVANIZED IRON SCHEDULE:

MAX. SIDE	GAUGES (US30)	BRACING
UP TO 24"	24	NONE
25 TO 30"	24	1" x 1" x 1/8" ANGLE, 4' FROM JOINT.
31 TO 40"	22	1" x 1" x 1/8" ANGLE, 4' FROM JOINT.
 - 2. ROUND DUCT UP TO 19" 26 NONE
 - 3. DUCT SIZES SHOWN ARE INSIDE DIMENSIONS. IF DUCTS ARE ACOUSTICALLY LINED, OUTSIDE DUCT SIZE TO BE INCREASED TO SUIT.
 - 4. DUCTWORK SHALL BE CONSTRUCTED AS RECOMMENDED IN ASHRAE GUIDE.
 - 5. SEAL ALL JOINTS (NEW AND EXISTING) AIRTIGHT WITH DURABLE HIGH-PRESSURED, WATER-BASED S-2 DUCT SEALER OR EQUAL, IN STRICT ACCORDANCE WITH MANUFACTURER'S PUBLISHED RECOMMENDATIONS. PRIOR TO APPLICATION, DUCTWORK TO BE DRY AND FREE OF GREASE, ETC. USE 1/4" BEAD OF MATERIAL ALONG JOINTS, MATERIAL, WHEN DRY, TO HAVE 1/8" DEPTH EXTENDING 1" ON EACH SIDE OF JOINT OR SEAM.
 - 6. PRIOR TO FABRICATION OF DUCTWORK, CHECK ALL CEILING SPACES AND HEIGHTS FOR CONFLICTION WITH OTHER TRADES.
 - 7. DUCT AND EQUIPMENT SUPPORTS, HANGERS AND INSERTS
 - 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" GALV. IRON PASSING UNDER DUCTS 37" OR OVER (EITHER DIMENSION) WITH 3/8" DIAM. THREADED RODS SUSPENDING ANGLES FROM STRUCTURE.
 - 2. FOR INSERTS IN EXISTING CONCRETE, USE HILTI H.K.D. STEEL ANCHORS.
 - 8. DIFFUSERS, GRILLES AND REGISTERS
 - 1. SUPPLY LINEAR BAR GRILLE - E.H. PRICE MODEL LBP15A/1000/VCS3/A/B12.
- 5.0 TESTING AND BALANCING
- 1. AIR SYSTEMS SHALL BE BALANCED AND TESTED BY AN INDEPENDENT AIR BALANCE AGENCY (AAB) TO PROVIDE AIR QUANTITIES AS SHOWN. PROVIDE AIR BALANCE REPORT FOR REVIEW BY THE CONTRACT ADMINISTRATOR. SUBMIT TWO COPIES FOR REVIEW UPON COMPLETION. PROVIDE DAMPER STICKER UPON FINAL BALANCING COMPLETION.

NOTES:

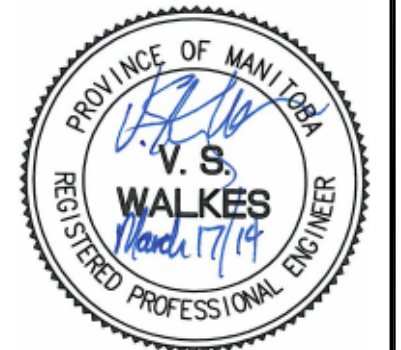
- THESE DRAWINGS SHALL NOT BE SCALED.
- THE CONTRACTOR SHALL VISIT THE SITE AND SATISFY ONESELF ALL DIMENSIONS, DATUM, AND DETAILED INFORMATION SHOWN ARE CORRECT.
- THE CONTRACTOR IS TO REVIEW AND COORDINATE ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL OPENINGS THROUGH FLOORS, WALLS, AND CEILINGS FOR DUCT, PIPE & ELECTRICAL RISERS AND ALL OPENINGS NOT SHOWN ON DRAWINGS.
- ALL OPENINGS THROUGH FIRE ASSEMBLIES ARE TO BE FIRE STOPPED AND SEALED WITH ULC APPROVED FIRE STOPPING TO MAINTAIN THE INTEGRITY OF THE FIRE SEPARATION, AND PROVIDE A SMOKE-TIGHT BARRIER.
- ALL PRODUCTS AND MATERIALS TO BE USED AND INSTALLED SHALL CONFORM WITH MANUFACTURER'S SPECIFICATIONS & APPLICABLE CODES.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND MAKE GOOD ALL EXISTING CONSTRUCTION AFFECTED BY THE REMOVAL OF ALL ITEMS FORMING THE PART OF THE RENOVATION WORK.
- WHERE NEW FLOORING AND BASE IS TO BE INSTALLED IN EXISTING AREAS (REFER TO FLOOR PLAN AND ROOM SCHEDULE) THE EXISTING FLOORING SURFACE AND BASE MUST BE REMOVED UNLESS OTHERWISE NOTED. ALL FLOOR SURFACES SHALL BE PREPARED IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION OF NEW FLOOR.
- WHERE PAINTING OF EXISTING WALLS IS INDICATED ON THE ROOM SCHEDULE, THESE WALLS MUST BE CLEANED OF ANY EXISTING WALL COVERING, PATCHED & PREPARED TO ACCEPT NEW MATERIAL, UNLESS OTHERWISE NOTED.



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11-173-02



1	ISSUED FOR BID OPPORTUNITY	VSW	03/17/14
0	ISSUED FOR CONSTRUCTION	VSW	12/04/13
No.	REVISION/DESCRIPTION	BY	DATE

SEAL			
DRAWN	DL	CHECKED	VSW
DATE	2014/03/17	DESIGNED	RE
		APPROVED	VSW
		USER	
		APPROVAL	

THE CITY OF WINNIPEG
 PLANNING, PROPERTY AND
 DEVELOPMENT DEPARTMENT
 MUNICIPAL ACCOMMODATIONS DIVISION
 3-65 GARRY STREET, R3C 4K4

PROJECT
 CITY HALL - ADMINISTRATION BUILDING
 BASEMENT & SUB-BASEMENT
 FINISHED SURFACE DESIGN
 510 MAIN STREET

SHEET TITLE
 PARTIAL PENTHOUSE FLOOR PLAN
 HVAC DEMOLITION &
 MECHANICAL SPECIFICATION

SCALE	PROJECT No:	SHEET No:
AS NOTED	2009-079-03	M2.0