Contractor shall list all addenda by number on the bid form to ensure conformity in the bid.

Drawings, Specifications and/or Proposals are herein amended, expanded and/or modified, as hereinabove described, and become a part of the Contract Documents with the same force and effect as if incorporated, herein, originally. Any contrary provisions contained, or referred to, in Drawings and/or Specifications, shall remain applicable unless overridden by this Addendum. Revised or contrary provisions herein shall not affect any other part of the Contract Documents and any deletions, additions, substitutions and/or revisions mentioned, shall include all labor, materials, methods, modifications, etc. required for complete performance of the work.

CONTRACT DOCUMENT MODIFICATIONS AND CLARIFICATIONS

1. Specification section 22-1005 – Plumbing Piping was omitted and is attached
2. Modified Drawings E101, M101 and added sheet M301. Clarified drawing call-outs, modified and clarified ductwork, showed stack heights, modified outlet heights, circuit changes, modified sump pump drain routing, added cable tray to HDD cell and other changes.
3. Lighting fixtures shall be Cooper Lighting HBLED-LD4-12-W-CL-UNV-L850, -OR- similar as approved
4. Provide and ceiling mount twelve (12) power cord reels, 20 foot cord(Min), 20amp capacity, 3 outlets (min), with overload protection.
5. Air to Air heat exchanger configuration is based on RenewAire HE3XINH, similar, approved units will be considered.
6. Sump pump to be Zoeller Model N140 - OR - similar as approved
7. Sidewall exhaust fan shall be Greenheck Size 141 CWB with 1HP drive, to provide 3124 CFM at 0 static pressure -OR- similar as approved.
8. Provide reinforcing framework at the free-end of all ductwork (to prevent denting). Also provide simple grating or louvers at all free ends.
9. Install insect screens and weather caps on all roof stacks.
ADDENDUM #1

PROJECT 102-15-02

10. The revised drawings add ductwork to provide floor level exhaust in both cells. In addition, an 18” x 18” dampered inlet shall be added at the top of the vertical duct (at the ceiling of the cells).

11. Controls for all HVAC equipment is simply an ON/OFF switch for all equipment. Switch to be located within the respective cells.

12. The drain on the exhaust vent in the HDD is not piped to drain. Connection will be by owner.

13. All field installed ductwork on the project shall be galvanized.

End of Addendum
PART 1 GENERAL

1.01 RELATED REQUIREMENTS
   A. Section 22 0516 - Expansion Fittings and Loops for Plumbing Piping.

1.02 REFERENCE STANDARDS

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

2.02 SANITARY SEWER PIPING, ABOVE GRADE
   A. PVC Pipe: ASTM D1785 Schedule 40, or ASTM D2241 SDR 26 for not less than 150 psi (1 034 kPa) pressure rating.
      1. Fittings: ASTM D2466, PVC.

2.03 PIPE HANGERS AND SUPPORTS
   A. Provide hangers and supports that comply with MSS SP-58.
      1. If type of hanger or support for a particular situation is not indicated, select appropriate type using MSS SP-58 recommendations.
      2. Overhead Supports: Individual steel rod hangers attached to structure or to trapeze hangers.
      3. Trapeze Hangers: Welded steel channel frames attached to structure.
   B. Plumbing Piping - Drain, Waste, and Vent:
      1. Hangers for Pipe Sizes 1/2 Inch (15 mm) to 1-1/2 Inches (40 mm): Malleable iron, adjustable swivel, split ring.
      2. Hangers for Pipe Sizes 2 Inches (50 mm) and Over: Carbon steel, adjustable, clevis.

PART 3 EXECUTION

3.01 PREPARATION
   A. Ream pipe and tube ends. Remove burrs. Bevel plain end ferrous pipe.
   B. Remove scale and dirt, on inside and outside, before assembly.
   C. Prepare piping connections to equipment with flanges or unions.

3.02 INSTALLATION
   A. Install in accordance with manufacturer's instructions.
B. Route piping in orderly manner and maintain gradient. Route parallel and perpendicular to walls.

C. Install piping to maintain headroom, conserve space, and not interfere with use of space.

D. Group piping whenever practical at common elevations.

E. Install piping to allow for expansion and contraction without stressing pipe, joints, or connected equipment. Refer to Section 22 0516.

F. Provide clearance in hangers and from structure and other equipment for installation of insulation and access to valves and fittings.

G. PVC Pipe: Make solvent-welded joints in accordance with ASTM D2855.

END OF SECTION
NOTE: ALL POWER FEEDS FOR ROOM 3 (HDD) FROM PANEL LC4.

120VAC/20A/LC4/1'-8" AFF
120VAC/20A/ORV/1'-AFF
120VAC/20A/ORV/3'-AFF
120VAC/20A/LC4/4'-AFF
208VAC/20A/LC4/4'-AFF
208VAC/20A/ORV/4'-AFF
120VAC/20A/ORV/1'-AFF
120VAC/20A/ORV/1'-AFF
120VAC/20A/ORV/1'-AFF
208VAC/20A/LC4/4'-AFF
120VAC/20A/LC4/4'-AFF
120VAC/20A/ORV/4'-AFF
120VAC/20A/LC4/CEILING
120V/30A/ORV/4'-AFF/L530
120VAC/20A/LC4/4'-AFF
120VAC/20A/LC4/CEILING
120VAC/20A/LC4/CEILING
120VAC/20A/LC4/CEILING
120VAC/20A/LC4/CEILING
120VAC/20A/LC4/CEILING
120VAC/20A/LC4/CEILING
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120VAC/20A/ORV/CEILING
120VAC/20A/ORV/CEILING
120VAC/20A/ORV/CEILING
120VAC/20A/ORV/CEILING
120VAC/20A/LC4/4'-AFF
120VAC/30A/LC4/4'-AFF/L530
120VAC/20A/LC4/4'-AFF
120VAC/20A/LC4/4'-AFF
120VAC/20A/LC4/4'-AFF
120VAC/20A/LC4/4'-AFF
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120VAC/20A/LC4/4'-AFF
120VAC/20A/LC4/4'-AFF
120VAC/20A/LC4/4'-AFF
120VAC/20A/LC4/4'-AFF
120VAC/20A/LC4/4'-AFF
As indicated

1. Engine
2. Torque Converter
3. HDD
4. ORV

SHEET KEYNOTES M101

MARK DESCRIPTION
1. NOT USED
2. NOT USED
3. EXHAUST DUCT UP THROUGH ROOF
4. NOT USED
5. POWERED THROUGH WALL VENTILATOR GREENHECK CW141 OR OTHER APPROVED. ORV CELL ONLY.
6. NOT USED
7. NEW 3/4" COPPER COMPRESSED AIR DUCTS. EXTEND FROM MAIN AT CENTER COLUMN. RUN AT CEILING TO DROP AT EACH ROOM WITH VALVE AND QUICK CONNECT.
8. EXISTING 50 GALLON SUMP. PROVIDE AND INSTALL 1 HP PUMP AND SWITCH. PIPE OVERHEAD TO DRAIN AT REST ROOM.

1. NOT USED
2. DRAIN LINE PLAN

SCALE: 1/4"=1'-0"

N 0'
10'
20'
40'
N

1. NOT USED
2. EDGE 1 MECHANICAL PLAN
3. MEZZANINE MECHANICAL PLAN
4. CEILING MECHANICAL PLAN

SCALE: 1/4"=1'-0"

N 0'
10'
20'
40'
N

PROVIDE FITTINGS AND TRANSITIONS AS NECESSARY TO ROUTE DUCT TO AVOID OVERHEAD ELECTRICAL CONDUITS

PROVIDE FITTINGS AND TRANSITIONS AS NECESSARY TO ROUTE DUCT TO AVOID OVERHEAD ELECTRICAL CONDUITS

CONNECT TO EXISTING COMPRESSED AIR LINE

ENABLING SCHEDULE/REGION TO NEXT ROOM

DROP DUCTS FROM CEILING EXISTING TO OPENINGS 16'-0"

DROP DUCTS FROM CEILING EXISTING TO OPENINGS 16'-0"

DRAIN PIPE ROUTED OVERHEAD TO BATHROOM

CONNECT TO EXISTING COMPRESSED AIR LINE

ENABLING SCHEDULE/REGION TO NEXT ROOM

DROP DUCTS FROM CEILING EXISTING TO OPENINGS 16'-0"

DROP DUCTS FROM CEILING EXISTING TO OPENINGS 16'-0"

FACILITIES MANAGEMENT
1400 TOWNSEND DRIVE
HOUGHTON, MICHIGAN
(906) 487-2303 PH
(906) 487-3291 FX

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