



**CORLEY REDFOOT ZACK, Inc.**

ARCHITECTS ENGINEERS PLANNERS

Addendum No. 1

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**PROJECT: ORANGE COUNTY JUSTICE EXPANSION  
EAST MARGARET LANE  
HILLSBOROUGH, NORTH CAROLINA**

**PROJECT #: 0417**

**DATE: 1/16/07**

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**MODIFICATIONS TO THE CONTRACT DOCUMENTS FOR THE ABOVE-NAMED PROJECT SHALL BE MADE AS DESCRIBED BELOW AND SHALL BE INCLUDED IN THE BID AMOUNTS:**

**A. ELECTRICAL DRAWINGS**

1. **Sheets E3.1, E4.0, E4.1, E5.0 and E5.1:** These 30" by 42" drawings are being issued for the first time, as they were inadvertently missing from the original printing.

**END OF ADDENDUM**

[Attachments: Sheets E3.1 (Addendum #1), E4.0 (Addendum #1), E4.1, (Addendum #1), E5.0 (Addendum #1), and E5 1 (Addendum #1)]



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Plumbing Items:

1. Reference Plumbing Drawing P1.0, Room Number G57:  
  
Add a 4" FS in middle of floor (see Architectural Drawing A2.0 for exact location) extend a 4" waste to the west and connect to 4" waste piping outside of sprinkler riser room. Install a 2" vent pipe from the 4" waste and rise to above the ceiling in the Main Mechanical room. Connect to the 2" vent piping above the ceiling.
2. Reference Plumbing Drawing P1.0, Room Number XG50:  
  
Revise the 4" waste running north/south in corridor XG12 to exit the building to the east below Mechanical AG48 and Office AG46. Extend 4" waste to a point 5'-0" beyond building wall. See Civil Drawing Number C4.0 for continuation.
3. Reference Plumbing Drawing P1.0:  
  
Plumbing Contractor shall co-ordinate exact location of floor drains with Mechanical Contractor.
4. Reference Drawing P3.0:  
  
Add a 3" hub drain in Room Number XG 222 for Mechanical units. Connect to the existing waste and vent piping dapped during demolition. Co-ordinate exact location of hub drains with Mechanical Contractor.
5. Reference Architectural Drawings Number D1.0 and D1.1 for demolition of existing plumbing.
6. Reference Drawing P6.1, Rain Water Reuse Schematic:

Add total of three ½" sample valves to schematic; one valve on the inlet side of dual filters, one valve to the outlet side of the dual filters, and one valve to the discharge side of the Hydro-Pneumatic Tank.

Revise note number 5 to read:

Meter to be purchased from the town of Hillsborough (flanged 2" Schlumber Neptune, type to be determined).

7. Reference Drawing Number P4.0:

Delete note referencing 4" overflow drain stubbed out with lambs tongue. Extend 4" pipe from overflow drain (925 sq. ft.) to the north to column line 4 and drop to the floor below.

8. Reference Drawing Number P3.0:

Pick-up overflow drain from floor above and extend to the north adjacent to overflow drain shown and stub thru wall with lambs tongue fitting.

Fire Protection Items:

1. Reference Fire Protection Drawing FP4.0, Fire Hydrant Flow Data:

Replace with the following:

Hydrant flow data.

Fire Hydrant # 158 located at Margaret @ Churton

Static Pressure = 72 psi

Flow = 1050 gpm

Fire Hydrant # 164 located at King @ Churton

Static Pressure = 70 psi

Residual Pressure = 58 psi



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Geothermal and Mechanical Items:

Item 1. Refer to Drawing M2.02 – Large Scale Mech. Room Plan and Drawing M3.00 – Earth Loop Piping Schematic. Geothermal Contractor to route 3” geothermal pipes from well field to 2’ above slab in mechanical room. Install shut-off valve at termination. Mechanical Contractor to route all remaining indoor geothermal piping. Geothermal Contractor to have H-1 license (if required by the AHJ).

Item 2. Clarification: Refer to Architectural Demolition Plans D1.0 and D1.1. Mechanical Contractor to remove all existing mechanical equipment, along with associated piping, ductwork, power / control wiring and conduit, complete – that is accessible for removal, and dispose of complete (unless noted otherwise elsewhere). Field verify existing conditions and requirements prior to bidding.

Item 3. Clarification: Refer to Civil Plan C1.1. Mechanical Contractor to reroute chilled water piping from existing chiller as shown on plans and as required – full size of existing. Existing chiller to remain in service during new building construction, then system and all components, and attachments to be removed complete. Existing chiller, along with associated controls, pumps, piping, etc. to be protected during construction until phased demolition of systems is to occur. Contractor to thoroughly field verify exact requirements and phasing requirements prior to bidding.

Item 4. Clarification: Refer to M1.1 – GSHP Schedule and Equipment Schedule. Contractor shall be responsible for fully coordinating electrical requirements, space requirements, service clearance requirements, etc. with electrical power circuits shown, available space, etc.. Contractor shall be responsible for all resulting, additional costs resulting from changes with furnishing equipment that is not the “basis of design” (i.e. the equipment specified by model number) – even if equipment is an “approved equivalent” and / or listed as an equal on the drawings or in the specifications. Any equipment that is to be furnished that is not the “basis of

design" shall be fully coordinated as described prior to bidding and again, prior to submittals. Engineer review of submittals does not relieve the contractor of this responsibility.

Item 5. Refer to Mechanical Plan M2.01. Pipe sizes to be changed as follows: Above Storage (XG02), main ground source heat pump piping loop to be 4" in lieu of size shown. West of HP0-2, main pipe loop size to be changed to 3" in lieu of size shown. Pipe loop to remain 3" all the way down Corr. (XG12), to end of corridor - to Vest. (XG49). Above Vest (XG49), piping to be transitioned to 2-1/2" - contractor to install 2-1/2" capped, valved stubout for future use.

Item 6. Refer to Mechanical Plan M2.20. At Mural Courtroom (X115), contractor to route control wiring for EMS temperature and humidity sensors up in existing return air chase as required. Control wiring to be plenum rated type.

Item 7. Clarification: In all areas where above ceiling return air plenums are utilized, contractor to utilize plenum rated type control cabling. In addition, contractor to coordinate with other trades so that only plenum rated materials are installed in return air plenum spaces - coordinate thoroughly with G.C. and other trades.

Item 8. Refer to Mechanical Plan M2.30 (see Addendum #3). All mechanical equipment on mechanical platform (GSHP units, Heat Recovery Unit, etc.) to be installed on 4" concrete housekeeping pads - by this contractor. For GSHP units, this in addition to the angle iron stand shown on details (this must also be furnished). Coordinate with G.C.

Item 9. Refer to Mechanical Plan M1.1 - Equipment Schedule. Heat Recovery Unit #1 to be furnished with double-wall, insulated panel construction.

Item 10. Refer to Mechanical Plan M1.1 - GSHP Schedule. All units to be furnished with foil-backed insulation, throughout unit; and with "Ultra-Quiet" sound attenuating package.

Item 11. Refer to Mechanical Plan M2.20 at Courtroom (219). In main 22x14 supply duct serving Courtroom, contractor to install two elbow offsets in ductwork (for sound attenuation) prior to any supply diffuser take-offs.

Item 12. Clarification: Refer to Mechanical Plan M2.00. At Holding Cells, G.C. will install metal security ceiling. Contractor to coordinate mounting of security grilles in security ceiling as required.

Item 13. Refer to Mechanical Plans M2.00 and M2.01. At Data (G12), contractor to route 3/4" pumped condensate drain piping from unit to up above ceiling and over and down in Mech. (G11) (in corner) and over to floor or hub drain.

Item 14: Refer to Mechanical Plans M2.10 and M2.11. At Data (135), contractor to route 3/4" pumped condensate drain piping from unit to up above ceiling and over and down in Mech. (134) (in corner) and over to floor or hub drain.

Item 15: Refer to Mechanical Plans M2.20 and M2.21. At Data (230), contractor to route 3/4" pumped condensate drain piping from unit to up above ceiling to Mechanical Platform and over to closest floor or hub drain.

Item 16: Refer to Mechanical Plans M2.20 and M2.21. At A/V (211A), contractor to route ¾" pumped condensate drain piping from unit to up above ceiling to Mechanical Platform and over to closest floor or hub drain.

Item 17: Clarification: Refer to Architectural Demolition Plans D1.0 and D1.1. Existing gas meter to remain. Existing gas piping to remain in service during new building construction, then gas piping to renovated areas (only) to be removed complete. Existing gas piping to be protected (or rerouted as required) during construction until phased demolition of systems is to occur. Contractor to thoroughly field verify exact requirements and phasing requirements prior to bidding. Existing gas piping to non-renovated spaces to remain complete (i.e. gas rooftop units to remain at Battle Courtroom).

Item 18: Refer to Mechanical Plan M2.20 and Mechanical Specifications. At Courtroom (205) and Courtroom (219), all supply and return ductwork serving these spaces (from the gshp units to the diffusers / grilles) to be completely lined with 1" duct liner and wrapped with 2" ductwrap. All other supply and return ductwork (not serving Courtrooms) to be insulated per the Mechanical Specifications.

Item 19: Refer to Mechanical Plan M1.0 – Grille & Diffuser Schedule. Type "EE" supply diffusers to not be furnished with opposed blade dampers.

END OF ADDENDUM



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Electrical Items:

Refer to sheet E1.0, Electrical Symbol Schedule. Floor box should be Walker #RFB4 series in lieu of AF1 series.

Refer to sheet E3.0, Main Electric Room. Type "D" fixture not connected, to be 3-way switched at both doors & connected to nearest emergency/egress circuit.

Refer to sheet E7.3. Add heat detector on Mechanical Platform

Refer to sheet E8.0. Add grounding detail to panel "MDP". Detail to be same as shown on "Partial Temporary Electrical Riser" 208/120 wiring gutter.

Refer to sheet E8.0. Refer to sheet C1.1 for existing chiller location.

Refer to Fire Alarm Plans E7.0, E7.1, E7.2 for security box locations.

Refer to sheets D1.0 and D1.1 for demolition notes.

Refer to sheet E3.1. Add TV outlet in room G08, on west wall. Refer to sheet T2.0. Connect to circuit in room.

Refer to sheet E3.1. Add TV outlet in room G38, on west wall. Refer to sheet T2.0. Connect to circuit in room.

Refer to sheet E4.1. Add TV outlet in room 142, on east wall. Refer to sheet T2.1. Connect to circuit in room.

Refer to sheet E4.1. Add TV outlet in room 137, on west wall. Refer to sheet T2.1. Connect to circuit in room.

Refer to sheet E4.2. Add TV outlet in room 233, on east wall. Refer to sheet T2.2. Connect to circuit in room.

Refer to sheet E4.2. Add TV outlet in room 211, on south wall. Refer to sheet T2.2. Connect to circuit in room.

END OF ADDENDUM