

**KITTITAS COUNTY JAIL
MECHANICAL REPAIRS**

ADDENDUM NO. 2
March 12, 2010

This Addendum forms a part of the Contract Documents and modifies the original Contract Documents as described. Acknowledge receipt of this Addendum in the space provided on the Form of Proposal. Failure to do so may subject Bidder to disqualification. This Addendum is issued to all known Plan Holders.

PRE-BID

A pre-bid meeting was held on site March 4, 2010. See this addendum for resolution of questions asked and other information discussed at this meeting. See the Meeting Attendance Roster attached for attendees.

SUBSTITUTION REQUESTS

The following manufacturers are considered "Acceptable Manufacturers" as defined in the Contract Documents.

<u>SECTION</u>	<u>ITEM</u>	<u>MANUFACTURER</u>
15080	Flexible Connectors	Keflex
15080	Pressure Gauges	Tel Tru
15080	Thermometers	Tel Tru
15140	End Suction Pumps	Armstrong
15410	Water Hammer Arrestors	Watts
15420	Cleanouts	Watts
15450	Floor Drains, Floor Receptors	Watts
15715	Expansion Tanks	Armstrong
15715	Air Eliminator	Caleffi
15715	Air Vents	Caleffi
15851	Hood	Kees
15900	Control Subcontractors	CCI, ESC Automation
15900	Control Systems	TAC/Invensys, Delta
<u>SHEET</u>	<u>FIXTURE</u>	<u>MANUFACTURER</u>
E0.1	FI2D	Daybrite Arioso Series
E0.1	R26D	Omega SPEX Series

SPECIFICATIONS

1. Section 00710, 15.1.13, first paragraph, **ADD**: "All individuals wanting to work on the project shall agree to be finger printed by the County Jail staff as part of the pre-employment/pre-access background check. Individuals refusing to be finger printed will not be allowed access to the jail."
2. Section 07100, 1.2, A., **REVISE** referenced Section number to 07110.

3. Section 07100, 1.4, C., **DELETE** words “Tem Working Days” in line one; **REVISE** word “anyone” to “General Contractors”.
4. Section 01730, Part I, **ADD**:
 - 1.05 GENERAL REQUIREMENTS
 - A. The Contractor is responsible to protect all existing items which are to remain from damage of any kind during the work of this project. Electrical components (such as computers, printers, copiers, security devices, etc.) shall be protected by temporary tented enclosures, filters over equipment fan intakes, and similar methods.
 - B. Work means and methods shall be selected to minimize damage and disturbance to existing or new items, and to allow Owners use of all areas (unless noted otherwise).
 - C. All items damaged by the Contractor in performing the work of this project shall be restored to new condition.
5. Section 01730, 3.02, A., **DELETE** work “library” in third line.
6. Section 11400, Food Service Equipment, **ADD** in its entirety, the attached Section.
7. Section 13038, 2.02, B., **ADD**: Height: Maximum external height shall be 8'-0”.
8. Section 13038, 2.02, I., **ADD**: System shall provide adequate cooling wit ambient temperatures at the condenser of 105 deg F.
9. Section 15010, **ADD**:
 - 2.08 MISCELLANEOUS MATERIALS
 - A. General: All metal materials shall comply with Division 5 codes and specification.
 - B. Bar Grating:
 1. Horizontal: Bar grating shall be rectangular bar type, constructed of carbon steel press-locked bar with a dipped galvanized finish. Grating shall have a maximum 2”x 1-3/16” spacing, with a bar width of 1” and a thickness of 3/16”.
 2. Vertical: Bar grating shall be rectangular bar type, constructed of carbon steel press-locked bar with a dipped galvanized finish. Grating shall have 4”x1-3/16” spacing with a bar width of 1-1/4” and a thickness of 1/8”.
 - C. Metal Well: Well shall be 12 gauge constructed of galvanized steel spiral rib pipe. Well shall be anchored as per drawings.

- D. Perforated Shroud: Shroud shall be 16 gauge perforated metal constructed of hot dipped galvanized steel with a maximum hole size of 1/8" diameter and 1/4" staggered centers spacing. Shroud shall be anchored as per drawings.
 - E. Fasteners: Fasteners shall be constructed of stainless or galvanized steel.
 - F. Roof Curbs/Rails: Custom fabricated of minimum 12 gauge steel, hot dip galvanized after fabrication. Size to suit application.
10. Section 15080, 2.02, F, 2nd line, **DELETE**: "at pumps and chiller"
11. Section 15200, Seismic Control, **ADD** in its entirety the attached Section.
12. Section 15350, 2.03, **DELETE** subparagraph B.
13. Section 15410, 2.03, **ADD**:
- C. Solenoid Valves: General purpose solenoid valve for use with potable water, rated for 150 psi working pressure, suitable for ambient temperatures from 32 to 125 deg F. Brass or cast bronze body, pilot operated, stainless steel spring, bonnet assembly core tube of stainless steel construction. Full port valve, with Cv for valve sizes no less than the following: 1" Cv 11.5; 1.25" Cv 13; 1.5" Cv 24; 2" Cv 36. Valves shall be the slow closing type to minimize water hammer. Valves shall be for use with 120 volt/60Hz electricity. Solenoid enclosures shall be watertight. Asco, Gould, or approved equal.
 - D. Check Valves:
 - 1. 2 Inches and Smaller:
 - a. Horizontal: 125 psi-swp bronze body horizontal swing check valve, regarding type, y-pattern, renewable seat and disc, solder or threaded connection. Nibco S-413 or T-413 (or approved).
 - b. Vertical: 125 psi-swp bronze body vertical inline check valve, stainless steel or bronze disk holder, Buna-N disk, stainless steel spring actuated, solder or threaded connection. Nibco S-480 or T-480 (or approved).
 - E. Pressure Reducing Valves: Bronze body construction, renewable nickel alloy or stainless steel seat, lead free, with integral strainer and union inlet connections. Adjustable range 25 to 75 lbs, suitable for inlet pressures up to 300 psi. Watts Series U5-Z3 (or approved).
14. Section 15410, 2.05, **ADD**:
- B. Non-Potable Water Meter: Magnetic drive turbine meter, with bronze outer cases, high impact resistant plastic register lid and clamp band, plastic inlet hub, rotor and strainer. Bottom plate shall be of bronze or enamel coated cast iron, with thick rubber liner for protection, and attached to meter housing with stainless steel bolts and washers. Register shall be magnetically driven and hermetically sealed between a glass dome and metal housing. Register shall read in U.S. gallons, minimum 10,000,000 gallon capacity, and with 10 gallons/sweep hand revolution. The clamp band shall allow for positioning the register in the most convenient reading position. Meter shall be suitable for up to 175 psig and 32 to 130 degree F temperatures. Hersey Model MVR (or approved).
15. Section 15450, 1.06, C., **ADD**: Prior to ordering fixtures obtain templates with exact dimensions and verify rough-in requirements, plumbing and building alterations required to accommodate

fixtures. It is expected that some fixtures will require alternative model numbers to those specified to better suit the application. Ship fixtures “knocked-down” as required to allow for installation.

16. Section 15450, 2.02, B., P-1A, **REVISE** as follows:

P-1A Water Closet – Security - Off Floor

Water Closet – General: Acorn “Penal-Ware” series 1675 blowout type, off floor, elongated bowl, stainless steel security fixture. Fixture shall be fabricated from minimum 14 gauge type 304 stainless steel, seamless welded, exposed surfaces having a satin finish, and contoured toilet seat having a sanitary high polish finish. Water closet trap shall pass a 2-1/8” diameter ball and be fully enclosed. Fixture shall have self-drain flushing rim, and integral seat. Fixture shall be able to withstand loadings of 3000 pounds without damage. Fixture shall be provided with accessories for proper mounting and installation.

Water Closet – Specifics: Water closet to flush with a 3.5 gallon flush valve. Fixture shall be for use with concealed flush valve. Fixture shall include: cleanout with pinned cleanout plug, flood-trol auto shut-off feature with auto-reset, flush valve thru-wall connector, wall sleeve, and fixture template.

Flush Valve: Sloan “Royal Prison” series, model to suit fixture used with. Shall be concealed hydraulic prison-type flush valve, rough brass, with vacuum breaker, non hold open actuator, hydraulic tubing, chrome plated metal push button (rear access type), wheel handle angle stop, flush tubes and elbow for connection to fixture.

17. Section 15450, 2.02, B., P-1B, **REVISE** as follows:

P-1B Water Closet – Security – Handicap

Same as P-1A but configured and installed to be ADA compliant.

18. Section 15450, 2.02, B., P-1C, **REVISE** as follows:

P-1C Combination Water Closet/Lavatory – Security

Fixture – General: Acorn “Penal-Ware” Series 1418LMB blowout type, off floor, elongated bowl, integral water closet seat, multi-sided lavatory bowl, 18” wide stainless steel security fixture. Fixture shall be fabricated from minimum 14 gauge type 304 stainless steel, seamless welded, exposed surfaces having a satin finish, and contoured toilet seat having a sanitary high polish finish. Water closet trap shall pass a 2-1/8” diameter ball and be fully enclosed. Water closet shall have self-drain flushing rim, and integral seat. Lavatory shall be approximately 12-3/4” x 8-1/4” x 5” deep, with faucet, non-hold open feature, and 0.5 gpm flow. Fixture shall have an air-circulating self-draining soap dish, and bubbler. Fixture shall be able to withstand loadings of 3000 pounds without damage. Fixture cabinet interior shall be sound deadened with fire resistant material. Fixture shall be provided with accessories for proper mounting and installation.

Fixture – Specifics: Water closet shall flush with 3.5 gallon flush valve. Fixture shall be for use with concealed flush valve. Fixture shall have centered toilet, with left or right hand lavatory as required to match application/arrangement shown on plans. Bubbler shall be penal type. Lavatory faucet shall be hot/cold temperature mixing type operated with push/rod fulcrum assembly. Fixture shall include: cleanout with pinned cleanout plug, flood-trol auto shut-off feature with auto-reset, flush valve through wall connector, wall sleeve, fixture template, lavatory

overflow, lavatory p-trap and waste extension with cleanout (copper or cast bronze construction), paper holder, toothbrush holder, toilet waste extension, and towel hook.

Flush Valve: Sloan “Royal Prison” series, model to suit fixture used with. Shall be concealed hydraulic prison-type flush valve, rough brass flush valve with vacuum breaker, non hold open actuator, hydraulic tubing, chrome plated metal push button (rear access type), wheel handle angle stop, flush tubes and elbow for connection to fixture.

19. Section 15450, 2.02, C., P-3A, Lavatory, **ADD**: Provide with deck mounted penal bubbler, air-control hot/cold water faucet/valve control, p-trap and through wall extension with cleanout (copper or cast bronze construction), lavatory overflow, and wall sleeve.
20. Section 15450, 2.02, E., P-9A, **REVISE** valve to be hot and cold water mixing with non-hold open feature and adjustable timing. **ADD** following: Provide custom horizontal closure panels on multiple sides to close off top of shower to ceiling (see plans for arrangement), vertical closure panel on two sides to close-off shower to walls, 14 gauge construction, threshold anchor, hemispherical push button, recessed soap dish, and inside caulk waste. Provide fixture with custom shower head and control locations to match existing rough-in conditions. Contractor to field verify requirements.
21. Section 15450, 2.02, E., P-9B, **REVISE** Model No. to “1730 series”; **REVISE** valve to be hot and cold water mixing with non-hold open feature and adjustable timing. **ADD** following: Provide custom horizontal closure panels on multiple sides to close off top of shower to ceiling (see plans for arrangement), vertical closure panel on two sides to close-off shower to walls, 14 gauge construction, threshold anchor, hemispherical push button, recessed soap dish, and inside caulk waste.
22. Section 15450, 2.03, C., **ADD**: Type at dishwasher shall be chrome plate, 1/2" connections.
23. Section 15450, **DELETE** 2.04.
24. Section 15500, 3.03, A., **ADD**: Flushing shall cleanout each main; and meet requirements of Kittitas County Fire Marshal’s office.
25. Section 15715, 2.01, **ADD**:
 - E. Expansion Tanks: Bell & Gosset, Taco, Amtrol.
26. Section 15715, 2.01, **ADD**:
 - F. Air Eliminator: Thrush.
27. Section 15715, 2.01, **ADD**:
 - G. Steel and Copper Pipe and Fittings: Domestic manufacturers only.
28. Section 15715, 2.01, **ADD**:
 - H. Air Vents – Manual: Milwaukee, Nibco, Watts, Conbraco/Apollo, Stockham, Kitz, Red-White.
29. Section 15715, 2.01, **ADD**:
 - I. Air Vents – Automatic: Bell & Gossett.

30. Section 15715, 3.04, A., **ADD** after words “chilled water piping”: “and hot water heating piping”.
31. Section 15715, 3.05, A., **ADD** after words “chilled water piping”: “and hot water heating piping”.
32. Section 15715, 3.05, I., **ADD**: “Chilled water system shall be filled to a glycol concentration of 30%; assume a system volume of 3000 gallons for bidding purposes.”
33. Section 15810, 1.04, **ADD**:
 - C. Submit name and qualifications for Company and staff that will perform cleaning of air handling unit.
34. Section 15810, 1.05, A., **REVISE** “See Drawings” with:
 - A. Existing Air Handlers:
 1. AHU-1: McQuay, Model #LND 228CY, Serial #3MC00195-04
 2. AHU-2: McQuay, Model #LYF217CY, Serial #3MC00194-04
35. Section 15810, 1.06, B., **REVISE** First sentence to read: All items being refurbished shall be equal or better than the original items furnished on the unit.
36. Section 15810, 1.06, **ADD**:
 - D. Unit Cleaning: Shall be performed by a company specializing in duct and air handling equipment cleaning. Company shall have specialized equipment designed for duct air handler cleaning, and have staff that have performed cleaning on projects of similar scope and type as this project.
37. Section 15810, 3.02, B., **REVISE** to read:
 - B. Refurbishment Scope: Refurbish existing air handling units; work shall include the following:
 1. New fan belts.
 2. New fan bearings and extended grease lines.
 3. Replacement of unit interior liner.
 4. Cleaning of unit interior.
 5. New fan sheaves.
 6. New fan motor.
 7. Re-balancing of fan wheel/shaft/drive assembly.
 8. New door gaskets and seals.
 9. New door latches.
 10. General repair of any loose, damaged or faulty items on unit.
 11. New controls (see Section 15900).
 12. New filters and filter track gasketing.

38. Section 15810, 3.02, G., **REVISE** to read: “Cleaning: Vacuum and water wash clean air handling unit interior. Use cleaners and methods specifically intended for air handling equipment.”
39. Section 15820, 2.02, **DELETE** subparagraph K.
40. Section 15870, 2.02, F, **REVISE** “Security Grilles” to “Wall Security Grilles”.
41. Section 15870, 2.03, B., **REVISE** to read:
 - B. Ceiling Diffuser – Security (CD-S): Round perforated security grille, constructed of 3/16-inch thick steel face with 5/16-inch diameter holes on 7/16-inch staggered centers. Sleeve shall be 3/16-inch thick and welded to face. Opposed blade volume damper shall be constructed of heavy gauge steel and operated from the face of the grille. Titus SG-PR.
42. Section 15870, 2.04, B., **REVISE** to read:
 - B. Wall Return Grille – Security (WRG-S): Blade face aluminum fixed bars security grille. Grilles shall be constructed with 3/16-inch thick extruded aluminum louvers on ½-inch centers, set at 0 degree deflection, with heavy vertical aluminum tubes. Vertical supports shall be welded to frame on both ends. Frame shall be 1/8-inch thick aluminum welded at corners. Grilles shall be of all welded construction. Opposed blade damper shall be constructed of heavy gauge aluminum and operated from the face of the grille. Titus Series SD-1500FL.
43. Section 15870, 2.04, **ADD**:
 - C. Ceiling Return Grille – Security (CRG-S): Same as CD-S.
44. Section 15870, 2.05, B, **REVISE**:
 - B. Ceiling Exhaust Grille – Security (CEG-S): Same as CD-S.
45. Section 15870, 3.01, **ADD**:
 - D. Ceiling Security Grilles: Provide horizontal framing constructed of 14 gauge 2x4 (nominal) steel studs welded to existing suspended ceiling metal supports, and extended and anchored to wall structure. Provide framing to “box” in security grille. Where horizontal bracing is attached to wall structure weld 1/8” plate to end and bolt plate to CMU wall with two (2) 3/8” bolts per attachment at a single corner of new bracing system. Provide steel stud bracing from framing at grille at a 45 degree angle to structure above.
46. Section 15900, 2.03, A., **ADD**: System shall be accessible via Owner’s intranet; provide software and accessories as necessary to allow for remote access.
47. Section 15900, 2.09, **ADD**:
 - F. Domestic Water Control Valves: See Section 15410.
48. Section 15900, 3.02, **ADD**:

- U. Computer Stations: Provide COS in Owner's Maintenance Office in adjacent Court House; provide portable computer to Owner with ability to connect into system in Jail Mechanical Room.
49. Section 15900, 3.04, **ADD** to paragraph title: /DUCT SENSORS
50. Section 15900, 3.04, **ADD**:
- C. Duct Sensors: At duct sensors used for control of AHU zones, provide adjacent to each location a manually adjustable setpoint for the zone, locate in secure locations (i.e. lockable plumbing chases, non-inmate areas, etc.)
51. Section 15900, 3.04, B., **ADD** to unoccupied heating (use 65 deg F in inmate areas); **ADD** to unoccupied cooling (use 80 deg F in inmate areas),
52. Section 15900, 3.08, J., **ADD**:
7. Fire Alarm Panel Status.
8. Fire Sprinkler Riser Alarm Status.
9. Cell Water Solenoid Valve Commanded Status.
53. Section 15900, 4.02, A., 1. **REVISE**:
1. The unit zone controllers shall control each zone's control valves (cooling and heating) to provide a supply air temperature that will satisfy each zone's setpoint.
54. Section 15900, 4.02, A., 2., **DELETE** end of sentence in parentheses.
55. Section 15900, 4.02, B., **DELETE** sub-paragraphs 1., and 2.; **REVISE** to read:
- B. Day Mode: Fan shall run continuously; zone coil control valves shall be modulated as required to satisfy each zone setpoint using occupied mode setpoints for each zone. Outside air and return air dampers shall remain open to balancer set position.
56. Section 15900, 4.02, C., **REVISE** to read:
- C. Night Mode: Same as for Day Mode except that each zone uses unoccupied mode setpoints.
57. Section 15900, 4.02, **DELETE** sub-paragraph D.
58. Section 15900, 4.02, E., **REVISE** to read:
- E. Schedules: Provide separate Day/Night Mode schedule for each zone of AHU's. Verify schedule with Owner.
59. Section 15900, 4.10, FR., **REVISE** word "Contactors" in line 2 to be "Contractor". **ADD**: Assume contactors required for 4 zones of 120 volt, 30 amp capacity each, to be wired into existing lighting circuit adjacent to existing panels.

DRAWINGS - GENERAL

1. Sheet G2.0, General Notes, **ADD**:

4. Existing elevator has a 4000 pound capacity.
2. Sheet G2.0, General Notes, **ADD**:
 5. Contractor may use as an office the unoccupied office located on the First Floor near grids 10-11/A-B (Office E135 as shown on A1.0). Contractor is responsible for obtaining any required phone/fax/internet services and all fees and costs associated with such services.
3. Sheet G2.0, G3.0, G4.0, G5.0; General Notes, **ADD**:
 3. The jail will be occupied and functioning during this project. Areas indicated as “major areas” to be worked will be fully available to the Contractor during that work phase. Areas not scheduled to be worked will be occupied by inmates, and will have limited access only. The Control Room will be fully occupied during the entire project, and will require careful and special work procedures to accomplish work in that area.
4. Sheet G5.0, Site Plan, Parking Lot at northwest corner of plan, **ADD** note: “Contractor’s use shall be the east half of the lot, and shall be arranged to allow continued use by Owner of the west half.”

DRAWINGS - ARCHITECTURAL

1. Sheet A1.0, **MODIFY** General Note ‘A’ by deleting the following: “Structural elements to be demolished have been specifically indicated herein. Contractor shall be responsible to provide temporary shoring/support of structural elements to remain until such time as they can be re-supported by permanent construction.”
2. Sheet A1.1, **REVISE** partial 1st floor reflected ceiling demolition plan, per attachment ASK #01.
3. Sheet A2.0, **REVISE** partial 1st floor plan per attachment ASK #02.
4. Sheet A2.0, **ADD** to Additive Alternate #2: rooms E112 & E215 and other areas as shown on the Mechanical drawings.
5. Sheet A2.0, General Notes, Note G., **ADD** after word “Toilet/Lav” “and Showers”.
6. Sheet A2.1, **REVISE** enlarged toilet plan E006 per attachment ASK #03
7. Sheet A2.1, **ADD** Keynote #14 to read: “New plumbing fixture as part of alternate bid #2 - refer to mechanical”. Point keynote #14 at Detail 6; to water closet and lav in Toilet/Shower Room E215.
8. Sheet A3.0, **ADD** General Note ‘G’: “Contractor to provide cutting demo & patching of existing ceilings as required to accommodate new mechanical/electrical work.”
9. Sheet A3.0, **REVISE** Keynote #4 to read: “Provide new ‘hidden spline’ ceiling to match adjacent existing ceiling in selected corridor areas as directed by Owner. Owner selected area of replacement may not be contiguous section, and may be broken up into separate parts. Replacement work shall be removal of existing ceiling system (including suspension system where necessary and tile), and installation of new. Provide temporary and new supports of all

items installed in the ceiling as required to accomplish the work. For bidding purposes, include a total square footage of 600.”

10. Sheet A3.0, **REVISE** Keynote #5 to read: “Provide new glue-on ceiling tile in selected cells and secure areas to match adjacent existing ceiling as directed by Owner. Contractor to inventory all quantity of ceiling tile proposed of each area to be removed & replaced for the new construction work. For bidding purposes, compute approximately 20 square feet of new tile per cell and cell vestibule. Total square footage: 1,000.”
11. Sheet A3.0, **REVISE** partial basement reflected ceiling plan per attachment ASK #05.
12. Sheet A5.0, **DELETE** Plan Details #2 and #3.
13. Sheet A6.0, **ADD** ASK#04 for new concrete floor detail at recreation yards.

DRAWINGS - MECHANICAL

1. Sheet M0.1, Mechanical General Notes, Note 12., **ADD** work “Chiller,” after word “Boiler”.
2. Sheet M0.1, Mechanical Legend, **ADD** to abbreviations: RG, Refrigerant Gas; EF, Exhaust Fan; RB, Roof Blower.
3. Sheet M0.2, Boiler Schedule, Remarks Column, **REVISE** word “Extend” to be “Exceed”.
4. Sheet M0.2, Pump Schedule, **REVISE** CP-2, GPM to 100.
5. Sheet M0.2, Air Inlet & Outlet Schedule, CD-S, **REVISE** manufacturer and series number to: Titus Series SG-PR. **REVISE** remarks to: round perforated face.
6. Sheet M0.2, Air Inlet & Outlet Schedule, WRG-S, **REVISE** manufacturer and series number to: Titus Series SD-1500FL. **REVISE** remarks to: blade face fixed bars.
7. Sheet M0.2, Plumbing Fixture Schedule, **DELETE** P-1E.
8. Sheet M1.0, Food Prep E009, at southeast corner of room, at dishwasher **ADD** note: “See Sheet M4.2 for hood relocation and reinstallation.”
9. Sheet M1.0, Food Prep E009, **ADD** Keyed Note 5 to existing drains in Kitchen.
10. Sheet M2.0, Piping near grid 7, **REVISE** piping so that northern end of 4” waste pipe is extended to a floor cleanout in dishwashing area. **REVISE** northern pipe up to instead be a 2-inch V up, add 4” waste piping to the west approximately one foot (with trap and trap primer connection) to serve P-11C above. **ADD** 2-inch waste pipe size callout to piping shown serving P-11A. **ADD** 2-inch waste pipe size callout to southern pipe (serving garbage disposer above).
11. Sheet M3.0, Detail 1, approximately 6 feet west of Grid 5, near outside wall, **ADD**: 2 sets of refrigerant RS/RL piping from above, route piping to EVAP-1 and EVAP-2. See Sheet M3.1 and M3.2 for sizing and continuation to roof top outdoor unit.
12. Sheet M3.0, Toilet E006 and E007, **ADD** note: Pipe 1-1/2-inch CW (to fixtures which require CW) through a new main isolation valve with downstream solenoid valve (connected to new

- control panel) and individual isolation valves on CW to each fixture; and isolation valves on HW to each fixture similar to Detail 4/M3.5.
13. Sheet M3.0, Toilet E007, **REVISE** P-1C to P-1A.
 14. Sheet M3.0, Food Prep E009, **ADD**: 2-inch size to vent pipe located between grids 6/7.
 15. Sheet M3.0, Food Prep E009, **ADD** isolation valves in 1-1/4" HW and 3/4" CW at connections to existing piping.
 16. Sheet M3.0, E005, **ADD** note to south wall of room: Saw cut larger access opening in existing CMU wall (approximately 18"x24") top allow for access to new plumbing. Provide with access door.
 17. Sheet M3.0, E016, **ADD** note to west wall: Saw cut larger access opening in existing CMU wall (approximately 18"x24") top allow for access to new plumbing. Provide with access door.
 18. Sheet M3.1, General Notes, **ADD**:
 4. Revise existing plumbing piping and building construction as required to accommodate new plumbing fixtures.
 19. Sheet M3.1, General Notes, **ADD**:
 5. Clean all plumbing chases of debris. Clean and reseal full depth all pipe sleeves through floor (between pipe inside sleeve and sleeve); reseal all cracks/openings in chases to be watertight including around exterior of sleeves. Seal bottom of each chase with epoxy sealing coating (material selected by Contractor). Test each chase to hold 1" of standing water without leaking.
 20. Sheet M3.1, Keyed Notes, Keyed Note 11, **REVISE** word "per" in last line to be "similar to".
 21. Sheet M3.2, General Notes, **ADD**:
 4. Revise existing plumbing piping and building construction as required to accommodate new plumbing fixtures.
 22. Sheet M3.2, General Notes, **ADD**:
 5. Clean all plumbing chases of debris. Clean and reseal full depth all pipe sleeves through floor (between pipe inside sleeve and sleeve); reseal all cracks/openings in chases to be watertight including around exterior of sleeves. Seal bottom of each chase with epoxy sealing coating (material selected by Contractor). Test each chase to hold 1" of standing water without leaking.
 23. Sheet M3.2, Keyed Notes, Keyed Note 11, **REVISE** word "per" in last line to be "similar to".
 24. Sheet M3.2, Detail 1, A-Mod Bathroom E212, **ADD** note: Pipe CW to fixtures through a new main isolation valve, with downstream solenoid valve (connected to new control panel) and individual isolation valves on CW each fixture; and with individual isolation valves on the HW to each fixture; similar to Detail 4/M3.5.
 25. Sheet M3.2, Toilet E215, **REVISE** P-1C to P-1A.

26. Sheet M3.2, Toilet E215, **ADD** note: Pipe CW to fixtures through a new main isolation valve, with downstream solenoid valve (connected to new control panel) and individual isolation valves on CW each fixture; and with individual isolation valves on the HW to each fixture; similar to Detail 4/M3.5.
27. Sheet M3.2, Near grids 4-5/A-B, **RELOCATE** COND-1 and COND-2 to be at least 10 feet from the edge of the roof.
28. Sheet M3.2, Toilet E258A, Toilet E202A, **REVISE** fixture callout to P-1D.
29. Sheet M3.3, Keyed Note 2, **REPLACE** first three sentences with: Refurbish AHU per Specification Section 15810.
30. Sheet M3.3, Keyed Note 4, **ADD**: For bidding purposes reroute four (4) 4-inch hydronic piping mains and four (4) 1-1/2-inch hydronic piping delivering fluid to coils.
31. Sheet M3.3, General Notes, **ADD**:
 7. Coordinate all work and demolition with Owner. Do not demo items unless new items are installed and ready to function; or duration of downtime does not exceed 3 hours; or weather conditions are mild and allow systems to be out of service.
32. Sheet M3.3, Enlarged Mechanical Room Demo, **ADD**: Remove existing expansion tank and existing water make-up which include all piping valves and accessories located above CP-3 just west of grid 8/D in the Mechanical Room.
33. Sheet M3.4, Keyed Notes, **DELETE**: PHC-1/62.68/2-1/2”.
34. Sheet M3.4, Keyed Note 1, **REVISE** detail callout to 1/M3.7.
35. Sheet M3.4, Keyed Note 2, **REVISE** detail callout to 2/M3.7.
36. Sheet M3.4, Enlarged Mechanical Room Plan, at AHU-2, **DELETE** Keyed Note 2 at PHC-1 callout; **ADD** note at PHC-1: “Remove (E) preheat coil PHC-1 located within existing AHU-2, remove and dispose of coil, piping, valves and accessories. Patch unit casing where piping penetrated walls, where coil was anchored, and any other damaged areas.”
37. Sheet M3.5, Detail 4, note at left side of detail reading “Replace Trap Primer 1-1/2” CW”, **REVISE** to read “Replace Trap Primer 1/2-inch CW”.
38. Sheet M3.5, Detail 4, note at right side of detail reading “120 volt solenoid valve....” **ADD** “1-1/2-inch size”.
39. Sheet M3.6, Detail 3, **ADD** 3 gallon chemical addition tank at pump CP-1; pipe in similar to one shown in detail 2/M3.6.
40. Sheet M3.6, Chiller Piping Schematic, **REVISE** piping from ET-2 to CHS connection to be 1-inch.
41. Sheet M3.6, Chiller Piping Schematic, **ADD** 4” notation on (E) CHS piping
42. Sheet M3.7, Detail 1, **ADD** note:

4. See Sheet M3.4 for pipe sizes to coil.
43. Sheet M3.7, Detail 1, **ADD** tee with pressure/temperature test port on CHR side of coil; **ADD** balancing valve in coil bypass piping to 3-way valve.
44. Sheet M3.7, Detail 2, **ADD** note:
 4. See Sheet M3.4 for pipe sizes to coil.
45. Sheet M4.0, General Notes, Note 4, **ADD**: Provide new DDC type control system. See specifications for system requirements.
46. Sheet M4.0, Keyed Notes, **REVISE** last Keyed Note 5 to Keyed Note 6.
47. Sheet M4.0, Second Floor Plan HVAC, near grid 4/C-D, **ADD** note at EF-2: Provide custom duct elbows (12"x12") with horizontal duct section and vertical supports to allow new fan to be installed a minimum of 10' away from edge of roof.
48. Sheet M4.1, Mechanical Room Plan HVAC: **REPLACE** existing manual dampers located in the return air ducts on (E) AHU-1 and (E) AHU-2 with new motorized type.
49. Sheet M4.1, Mechanical Room Plan HVAC: **ADD** 40/30 size notation on existing OA ductwork to (E) AHU-2 unit; verify size before ordering motorized damper.
50. Sheet M4.1, Mechanical Room Plan HVAC, at AHU-2, **DELETE** Keyed Note 2 at PHC-1 and **DELETE** PHC-1 callout.
51. Sheet M4.2, Keyed Note 5, **ADD** word "No" at beginning of second sentence.
52. Sheet M4.2, Keyed Note 7, after word "Reroute" **ADD** word "Landscape".
53. Sheet M4.2, Enlarged Kitchen Plan – HVAC: **RELOCATE** (E) CRG just south of grid 3/A as required to provide clearance from new CMU wall. Provide steel framing/support at grille per Specification Section 15870.
54. Sheet M4.2, Enlarged Kitchen Plan – HVAC: **RELOCATE** (E) 30/12 CD located just north of grid 3/B; locate as needed to provide clearance from new CMU wall. Provide steel framing/support at grille per Specification Section 15870.
55. Sheet M4.2, Enlarged Kitchen Plan – HVAC: **ADD** note: Clean existing dishwasher hood and associated hood ductwork. Clean ductwork from kitchen up to existing rooftop fan (EF-RB-2). Clean fan also. Reference sheet M4.0 for fan location.

DRAWINGS - ELECTRICAL

1. Sheet E1.0, Demolition Plan: **ADD** to Note 6: "Provide programming to remove cameras from system during construction".
2. Sheet E1.0, Demolition Plan: **ADD** Electrical Plan Note 27 at door to Radio Room 017.
3. Sheet E1.0, Electrical Plan Notes, **ADD** note:

27. "Remove card reader, free to exit sensors, wiring and hardware from existing door (see Note 27/E3.0)."
4. Sheet E3.0, Power Plan, **ADD** Electrical Plan Note 27 at new door into Radio Room E017 in Work Release Expansion E018.
5. Sheet E3.0, Electrical Plan Notes, **ADD** Note:
 27. Provide installation of outlets, card reader, wiring and hardware removed during demolition of Radio Room Door. See Door Schedule Reference Note 2 on Sheet A5.0.
6. Sheet E3.0, Power Plan, **ADD** Electrical Plan Note 28 at new wiring by south receptacle inside Recreation E002
7. Sheet E3.0, Electrical Plan Notes, **ADD** note:
 28. Provide Security ceiling access panels as required to gain access above ceiling. Access panel shall be 12 gauge cold rolled steel 24"x24", concealed continuous concealed hinge, and heavy duty detention deadbolt lock. Babcock-Davis Model #B-SW or approved substitute.
8. Sheet E3.0, Power Plan, **REVISE** location of Panel SEB to be adjacent to VFD and Existing Panel K (near grid A between grids 5 and 6).
9. Sheet E3.0, Power Plan, **REVISE** disconnect for EF-5 to weatherproof with auxiliary contact (provide wiring to interlock with VFD such that when disconnect is open, VFD is disabled). Route conduit concealed above ceiling between VFD and disconnect.
10. Sheet E3.0, Power Plan, Electrical Room E0015, **ADD** stacked fused disconnects for Panel E and UPS on south wall with 24" long wireway between disconnects.
11. Sheet E5.0, Feeder Schedule, **ADD** the following callouts and descriptions:

30-1N-G	3/4"C-2#10 + #10GND
30-3N-G	3/4"C-4#10 + #10GND
150-3N-G	1-1/2"C-3#1/0 + #2N + #6GND
200-3N-G	2"C-4#3/0 + #6GND
12. Sheet E5.0, MDP, section 3, position 5, **REVISE** new fuses to Panel E to new 200A.
13. Sheet E5.0, **REVISE** feeders between MDP, Panel E, Generator and Transfer Switch, from existing 100-4(B) to new. Add wireway and two fused switches with neutral-200/3P (fuse at 125A) for Panel E and 30/2P (fuse at 30A) for UPS. Provide new feeders from transfer switch to wireway (200-3N-G), from wireway to 200/3P disconnect (150-3N-G), from wireway to 30/2P disconnect (30-3N-G), from 200/3P disconnect to Panel E (150-3N-G) and from 30/2P disconnect to UPS(30-1N-G). Provide new feeder from MDP to Transfer Switch (200-4-G). From Generator to Transfer Switch, remove conductors from existing raceway and pull in new (150-3N-G). Assume 150 feet of conductor length between Generator and Transfer Switch. Generator is located on south side of building, west end near gridline D-1.
14. Sheet E5.0, **REVISE** SCA at Panel E to read "12,824".

ATTACHMENTS

1. Section 11400 - Food Service Equipment.
2. Section 15200 - Seismic Controls.
3. Pre-Bid Meeting Attendance Roster.
4. ASK #01
5. ASK #02
6. ASK #03
7. ASK #04
8. ASK #05

END OF ADDENDUM NO. 2

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. Storage Shelving.
- B. Cooler Shelving.
- C. Freezer Shelving
- D. Prep Counter.

1.02 QUALITY ASSURANCE

- A. NSF Standards: Comply with applicable National Sanitation Foundation standards and recommended criteria. Provide each principal item of food service equipment with a “Seal of Approval” by NSF.
- B. Installer: Where indicated units shall be fabricated by shops which are skilled, with a minimum of 5 years of experience in similar work. Where units cannot be fully shop fabricated, fabrication shop shall complete fabrication work at project site.

1.03 SUBMITTALS

- A. Submittals shall comply with Section 01340.
- B. Product Data: Submit the following:
 - 1. A complete material list of all items to be furnished and installed under this section.
 - 2. Show drawing showing all pertinent dimensions.
 - 3. Shop drawing of all accessories herein or required.

1.04 GENERAL REQUIREMENTS

- A. The work to be performed under this Contract includes furnishing all equipment, appliance materials, labor and performance of all operations necessary to completely furnish and install the Food Service Equipment herein after specified under this section.
- B. Blocking: Blocking shall be supplied and installed where required to allow any and all wall mounting as required to provide a fix mounted system.
- B. Damage: All damage to the premises and other equipment as a result of the food service installation shall be repaired and all debris, crates and paper shall be removed by those engaged in this installation.
- C. Installation: Installation shall include all costs of freight, droppage, hoisting and handling of equipment necessary to complete this work.
- D. Other Work: All raised bases, floor depressions, framed openings, special sleeves, concealed anchorages for equipment in walls, floors and overhead shall be installed by the proper trade for such work. The exact size, location and type of these items shall be included in the equipment subcontractors shop drawings information and all supports or bracing shall be furnished by the equipment sub-contractor to the proper trade for their installation.

1.05 WARRANTIES/GUARANTEES

- A. Guarantee all work included in this Section for a period of one year after date of Final Acceptance of the work. During that period, all defects due to faulty materials or workmanship and damage to other work, resulting there from or the correction of same, shall be remedied at the Contractor's

expense.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. Products shall comply with Section 01600.
- B. Shelving: Metro Model.
- C. Prep Table: John Boos and Company.

2.02 STORAGE SHELVING

- A. General: Shall be prefabricated, all metal clad and be designed for easy accurate field assembly with provisions to facilitate disassembly for relocation and to add extra sections to increase length.
- B. Type: Assemble shelve to post, 5' high, bottom shelf up 10" above finished floor. Equally spaced using full length of posts. All posts shall have top caps. Assemblies shall provide five (5) shelf units "Super Erecta" shelf wire (25 quantity), wire 18" wide x 72" long, bright (zinc) finish, plastic split sleeves shall be included in each carton.
- C. Location: Assembly shall be installed along new north wall within Food Prep Area, just south of the Radio Room. Contractor shall field verify location and dimensions before ordering materials.
- D. Hardware: Contractor shall provide all required hardware, which include but not limited to, zinc "S" hooks and provide floor and wall fasteners to allow a fixed system.

2.03 COOLER SHELVING

- A. General: Shall be prefabricated, all metal clad and be designed for easy accurate field assembly with provisions to facilitate disassembly for relocation and to add extra sections to increase length.
- B. Type: Assemble shelve to post, 4' high, bottom shelf up 10" above finished floor. Equally spaced using full length of posts. All posts shall have top caps. Assemblies shall provide eleven (11) shelf units as stated.
 - 1. MetroMax Q Shelf, (24 quantity), 18" W, 54" L, polymer mats have Microban antimicrobial protection built in, epoxy coat steel frame, wedge connectors.
 - 2. MetroMax Q Shelf, (4 quantity), 18" W, 48" L, polymer mats have Microban antimicrobial protection built in, epoxy coat steel frame, wedge connectors.
 - 3. MetroMax Q Shelf, (8 quantity), 18" W, 42" L, polymer mats have Microban antimicrobial protection built in, epoxy coat steel frame, wedge connectors.
 - 4. MetroMax Q Shelf, (8 quantity), 24" W, 48" L, polymer mats have Microban antimicrobial protection built in, epoxy coat steel frame, wedge connectors.
- C. Location: Assembly shall be installed within walk-in cooler as shown on drawings. Contractor shall verify dimension prior to ordering materials.
- D. Hardware: Contractor shall provide all required hardware, which includes but not limited to, zinc "S" hooks.

2.04 FREEZER SHELVING

- A. General: Shall be prefabricated, all metal clad and be designed for easy accurate field assembly with provisions to facilitate disassembly for relocation and to add extra sections to increase length.
- B. Type: Assemble shelves to post, 4' high, bottom shelf up 10" above finished floor. Equally spaced using full length of posts. All posts shall have top caps. Assemblies shall provide seven (7) shelf units as stated.
 - 1. Super Erecta Shelf, wire, (24 quantity) 18" wide, 60" long, chrome-plated finish, plastic split sleeves are included in each carton.
 - 2. Super Erecta Shelf, wire, (4 quantity) 18" wide, 36" long, chrome-plated finish, plastic split sleeves are included in each carton.
- C. Location: Assembly shall be installed within walk-in freezer as shown on drawings. Contractor shall verify dimensions prior to ordering materials.
- D. Hardware: Contractor shall provide all required hardware, which includes but not limited to, zinc "S" hooks.

2.05 PREP TABLE

- A. General: Shall be prefabricated, all metal clad, stainless steel countertop prep table.
- B. Type: Stainless steel top work table (2 quantity), 30" wide, 96" length, 16 gauge stainless steel top, type 300 stainless with #3 polish, satin finish. Top shall be sound deadened, reinforced 1"x2" channel running entire length of table, with 1-1/2" stallion edge on front. Unit shall consist of stainless steel base and secured stainless steel under-shelf 12" above finished floor.
- C. Location: Countertops shall be mounted back to back and centered inside Food Prep Room #009. Contractor shall field verify location and dimensions prior to ordering any materials.
- D. Hardware: Contractor shall design and provide all hardware to fix mount system to kitchen floor. Contractor shall provide method and drawing schematic to Architect/Engineer for approval.

2.06 CAULKING COMPOUND

- A. G.E. Silicone Sealant. Use clear or color, as selected by the Architect.

2.07 METALS

- A. Galvanized Steel Sheet: ASTM A 526, except ASTM A 527 for extensive forming; ASTM A 525, G90 zinc coating, chemical treatment. Provide special sheet with extra smooth surface, produced by temper rolling of minimum-spangle galvanized sheet.

2.08 JOINT MATERIALS

- A. Sealants: One-part or 2-part, polyurethane or silicone based, liquid elastomeric sealant; FS TT-S-00227E, FS TT-S-00230C or TT-S-001543A, non-solvent-release type, mildew resistant, Shore A hardness of 30 except 45 if subject to traffic or similar abuse.

PART 3 - EXECUTION

3.01 INSPECTION

- A. Examine jobsite prior to equipment installation to verify locations and instructions to all parties with regard to material under this section.
- B. Starting work means acceptance of other in place work.

3.02 FIELD DIMENSIONS

- A. Before installation, check building dimensions, and services rough-in, including means of access, for conditions affecting delivery and installation of equipment.
- B. Where dimensions are not available before fabrication is commenced, confirm dimension in writing to Architect.

3.03 INSTALLATION

- A. Indicate exact sizes and location of blocking required on shop drawings.
- B. Provide inserts, and anchors built into other work for support of this work. Ensure these items are installed in their proper location. Include fastening devices required to attach the work. Use proper anchoring devices for the materials encountered and the usage expected.
- C. Install items in accordance with the manufacturers' instructions using workers skilled and familiar with items and installation requirements.
- D. Sequence installation and erection to ensure mechanical and electrical connections are effected in an orderly and expeditious manner.
- E. Do cutting, fitting and patching necessary, coordinating work fully with other trades involved.
- F. Caulk joints where required using bacteria and water resistant sealant.
- G. Complete field assembly joints in the work (joints which cannot be completed in shop) by welding, bolting and gasketing, or similar methods as indicated. Grind welds smooth and restore finish. Set or trim gaskets flush.

3.04 ADJUSTING AND CLEANING

- A. Test, clean and adjust equipment and apparatus to ensure proper working order and conditions.
- B. Remove masking from stainless steel and other finished surfaces. Thoroughly wash and clean equipment. Polish all hardware and accessories.

END OF SECTION

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. Seismic Restraints.

1.02 RELATED WORK

- A. Division 15 - Mechanical.

1.03 DEFINITIONS

- A. "Equipment" is defined to mean any item with power connections (fans, boilers, pumps, etc.), and also to include all hoods.
- B. "Equipment Requiring Vibration Isolation" is defined to be any equipment (as defined above) with rotating components (e.g. pumps, fans, etc.).

1.04 SUBMITTALS

- A. Submittals shall comply with Section 15010.
- B. Submit product data on all items to be used.
- C. Submit shop drawings for all fabricated support assemblies.
- D. Submit calculations showing seismic restraint calculations, restraint selection, proposed locations of all seismic control bracing, and details of bracing construction.

1.05 GENERAL REQUIREMENTS - SEISMIC RESTRAINTS

- A. Piping and ductwork seismic restraints are typically not shown on the drawings but are to be provided as specified herein.
- B. Seismic bracing for fire sprinkler system shall be as specified per NFPA 13 but in no case be less than that required in this Section.
- C. Contractor is responsible to select and provide all seismic anchoring devices for all mechanical equipment, all piping, and all ductwork.
- D. For all new equipment:
 - 1. The Contractor shall retain a specialty consultant or equipment manufacturer to develop a seismic restraint system and perform seismic calculations in accordance with the state and local codes and additional requirements specified in this section. Calculations, restraint selections, and installation details shall be done by a professional experienced in seismic restraint design and installation and licensed in the State where the project is located.
 - 2. The seismic design, consisting of calculations, restraint selection, installation details, and other documentation, shall be submitted. This submittal shall be signed and sealed by a professional Engineer (where required by code).
 - 3. The seismic restraint design shall clearly indicate the attachment points to the building structure and all design forces (in X,Y, and Z direction) at the attachment points. The seismic restraint engineer shall coordinate all attachments with the building's structural

engineer of record, who shall verify the attachment methods and the ability of the building structure to accept the loads imposed.

4. The seismic restraint design shall be based on actual equipment data (dimensions, weight, center of gravity, etc.) obtained from submittals or the manufacturers. The equipment manufacturer shall verify that the attachment points on the equipment can accept the combination of seismic, weight, and other loads imposed.
5. Analysis should include calculated dead loads, static seismic loads, and capacity of materials utilized for the connection of the equipment or system to the structure. Analysis should detail anchoring methods, bolt diameter, embedment, and/or welded length. All seismic restraint devices should be designed to accept, without failure, the forces detailed above in "Identification of Application Codes" in this chapter.
6. Forces shall be calculated in accordance with accepted engineering practice, using appropriate seismic "zone" and other factors for the building type and location. This project's building is considered an "essential" facility.

1.03 REFERENCES

- A. IBC: International Building Code.
- B. IMC: International Mechanical Code.
- C. MASON: Mason Industries Seismic Restraint Guidelines for suspended piping, Ductwork, Electrical Systems and Floor Mounted Equipment, 2005 6th Edition.
- D. OSHPD: Office of Statewide Health Planning and Development, State of California, Fixed Anchorage.
- E. SMACNA/SRM: Seismic Restraint Manual Guidelines for Mechanical Systems, 2nd Edition.
- F. UPC: Uniform Plumbing Code.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. Products shall comply with Section 15010, Paragraph 2.01, Acceptable Manufacturers.
- B. Products: Mason, Peabody, Vibration Eliminators, Amber-Booth.
- C. Expansion Devices/Flexible Connectors: Unisource Manufacturers and as specified in Section 15080 and 15860.

2.02 SEISMIC RESTRAINTS

- A. General: Shall be as required by Code, and shown in SMACNA-SRM and MASON.
- B. Materials:
 1. Steel shall be per ASTM A36; hangers and other devices shall be per Section 15090 and as shown in SMACNA-SRM or MASON. Sheet metal used for bracing shall be no less than 16 gauge. Material for straps shall be galvanized steel, no less than 18 gauge.

2. Cabling: Cables shall be minimum 1/8" diameter, 7 x 19 strand, galvanized steel with clear vinyl coating. Provide with galvanized thimble, clamps, and accessories. End termination and clamping/application shall comply with SMACNA-SRM.
- C. Flexible Connectors - Piping Systems:
1. Flexible Connectors: As specified in Section 15080.
 2. Seismic "V" Connectors: "V" design connector with braided hose and attachment fittings. Shall be constructed of type 321 stainless steel hose and braid with carbon steel elbows and ends (for steel piping systems); and bronze hose and braid with copper elbows and ends (for copper piping systems). Unit shall allow for 2" movement in all planes, and have minimum 150 psi working pressure at the system temperature installed. Unisource Manufacturing (or approved).

PART 3 - EXECUTION

3.01 SEISMIC RESTRAINTS

- A. Piping: Longitudinal and transverse bracing shall be required for all piping 2-1/2-inch diameter and larger and on all fuel gas piping. Bracing shall be applied as follows:
1. Transverse bracing shall occur at maximum intervals of 40 feet, except on fuel gas piping on maximum intervals of 20 feet.
 2. Longitudinal bracing shall occur at maximum intervals of 80 feet, except on fuel gas piping on maximum intervals of 40 feet. Transverse bracing for one pipe section may also act as a longitudinal bracing for a pipe section connected perpendicular to it, if the bracing is installed within 2 feet of the elbow or tee of similar size. Piping conveying fluids at 100 degrees F and higher shall have expansion devices provided in-between longitudinal braces to allow for thermal expansion.
 3. Bracing may be omitted when the top of the pipe is suspended 12 inches or less from the supporting structural member and the pipe is suspended by an individual hanger.
- B. Equipment:
1. Equipment Not Requiring Vibration Isolation: Shall be rigidly connected to the structure per Section 15090. Equipment anchoring system shall be able to withstand anticipated seismic forces.
 - a. Base Mounted Equipment: Where the height of the equipment is 3 or more times the smallest base dimension, provide seismic bracing to resist horizontal forces equal to the weight of the equipment and vertical force equal to the weight of the equipment. Provide elastomeric (or neoprene) pads (1/4" thick) between seismic strap and equipment.
 - b. Other Equipment: Where equipment is 36" or more from the supporting structure provide seismic bracing to resist anticipated forces; but in no case shall the anticipated forces be less than: horizontal forces equal to the weight of the equipment and vertical force equal to the weight of the equipment (applied at equipment center of gravity).
 2. Equipment with External Vibration Isolators:

- a. Base Mounted Equipment: Provide housed spring isolators, seismic snubbers, or padded steel angle restraint assembly (with minimum 1/4" clearance between pad and equipment); sized to resist horizontal forces equal to the weight of the equipment and vertical force equal to the weight of the equipment.
 - b. Other Equipment: Where equipment is 36" or more from the supporting structure provide rigid welded steel frame with resilient pads around equipment with approximate 1/2" gap (or as required) to allow free movement. Size bracing to resist horizontal forces equal to the weight of the equipment.
3. Equipment with Internal Vibration Isolation:
- a. Base Mounted Equipment: Provide spring isolators, seismic snubbers, or padded angle restraint assembly (with minimum 1/4" clearance between pad and equipment); sized to resist horizontal forces equal to the weight of the equipment and vertical force equal to the weight of the equipment.
 - b. Other Equipment: Where equipment is 36" or more from the supporting structure provide slacked cable bracing to allow slight movement, but installed so as to prevent more than 2" motion in any direction. Size bracing to resist horizontal forces equal to the weight of the equipment and vertical force equal to the weight of the equipment.
- C. Do not use branch ducts or piping to brace main runs.
- D. Do not brace same main duct or piping to dissimilar parts of a building or dissimilar building systems that may respond in a different mode during an earthquake. (Examples: wall and roof, solid concrete wall and lightweight roof, existing building structure and new isolated building structure.)
- E. At building expansion joint crossings, provide seismic "V" connectors in piping allowing at least 1 inch movement in all directions and flexible connectors in ductwork (on both sides of expansion joint) allowing at least 1/2 - inch movement in all directions.

3.03 INSPECTION

- A. Field Inspections: Prior to initial operation, the seismic devices shall be inspected for conformance to drawings, specifications, and manufacturer's data and instructions. Check all flexible connectors/expansion devices for proper location, guiding, and end anchoring. Coordinate with IBC Special Inspectors and the AHJ; provide required calculations and confirm proper system installation and AHJ acceptance.

END OF SECTION

Meeting Attendance Roster

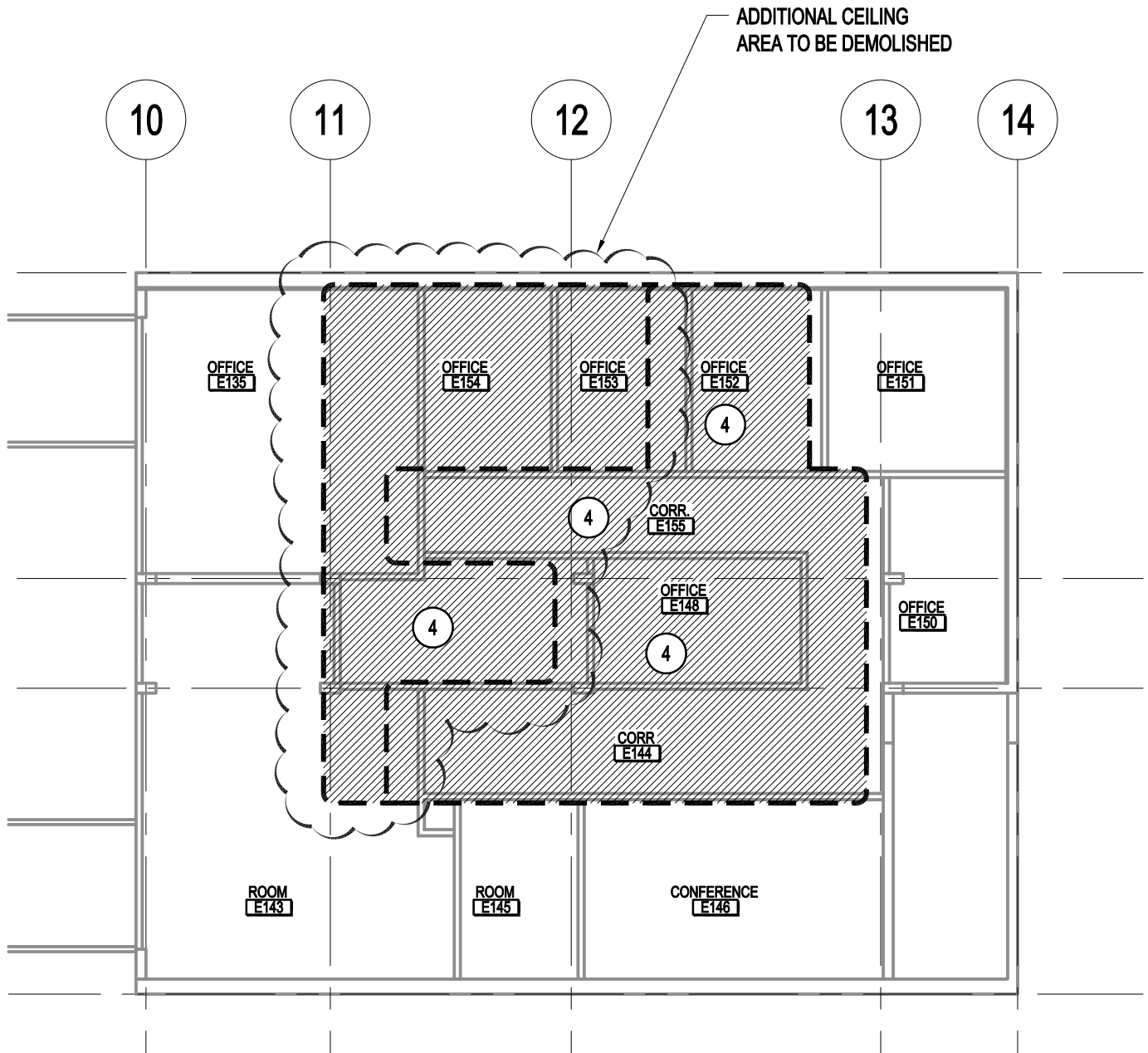
Project: Kittitas County Jail Date: 3/4/2010

Mechanical Repairs

Purpose: Pre-Bid Page: 2

Location: Project Site

Name	Representing	Phone	email
Bill Ash	CENTRAL MECHANICAL	509 248 5944	central@ymn.com
Chris Stout	Central Mechanical Services	509 248-5944	Cstout@ymn.com
Russ Belsaas	Belsaas + Smith Con. Inc	Fax 902-3031 509-925-9747	belsmith@kvaalley.com
BEVAN Drexler	Belsaas + Smith Con	111 111	brandon@belsmith.com
Rob Leamy	Mike Weirlech Const.	206-937-2208	rob@mikeweirlech.com
Craig Grick	Total Energy Mgmt	509-946-4500	cgrick@totalna.com
Rob McDonald	Peac Construction Inc	253-591-1100	rob@peacinc.com
John Chapman	Holm Berg Co	425-822-2233	S Chapman@HolmBergCo.com
Matt Seigniny	M Seigniny Const	509 949 3547	Matthew@TE@hotmail.com



PARTIAL 1ST FLOOR DEMO RCP

SCALE: 3/32" = 1'-0"



ARCHITECTS
RASMUSSEN
TRIEBELHORN AIA/PS

Number 9 Saint Helens
The Henry Drum House
Tacoma, WA 98402

253 572-6511
253 572-6515 Fax
www.a-r-t.org

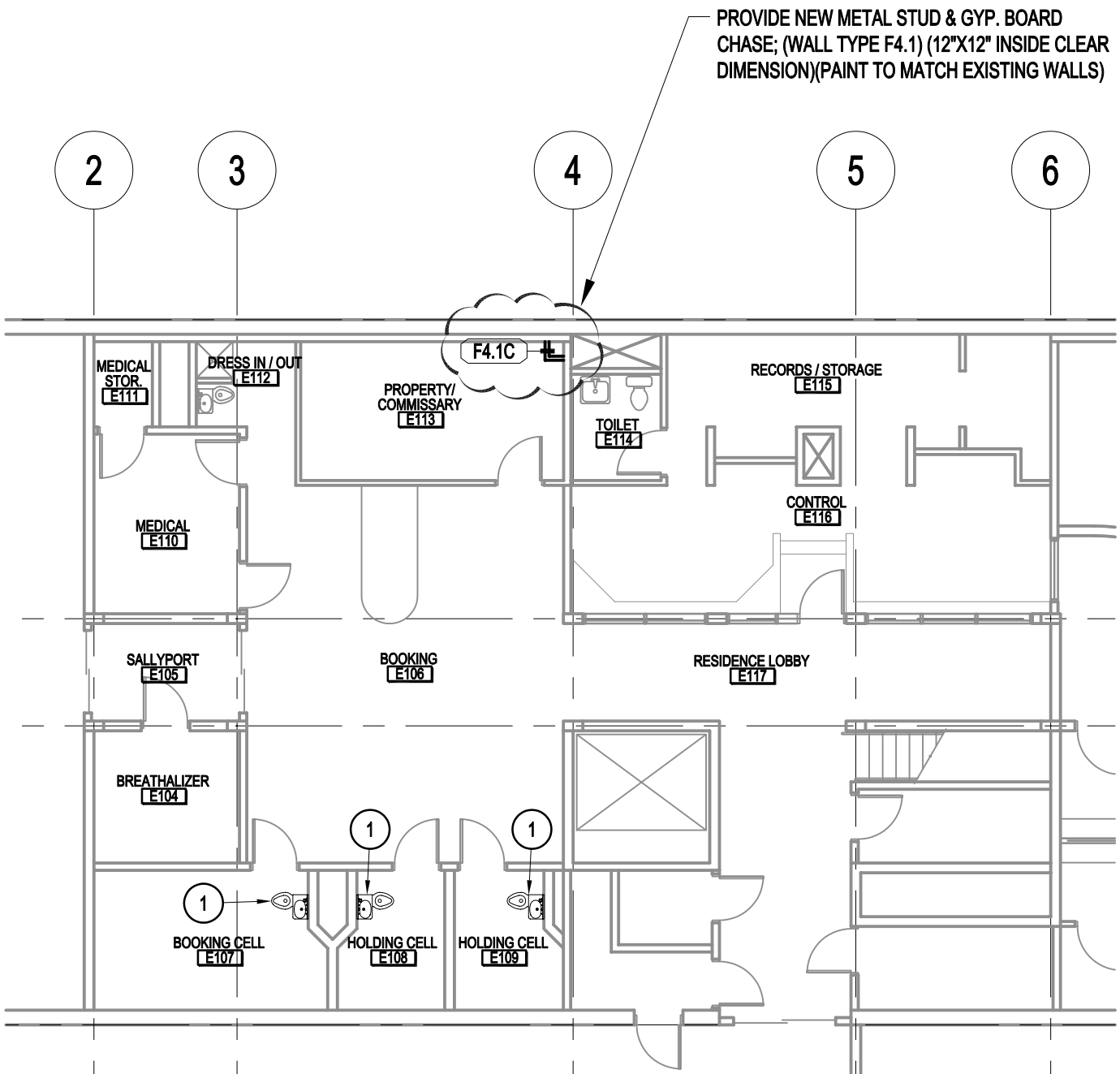
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MECHANICAL REPAIRS
ELLENSBURG, WASHINGTON

PROJECT NO : 09-098
DATE : MAR. 9, 2010

ISSUED FOR: ADDENDUM #2

ART JOB # 08'14

REFERENCE:
A1.1
DETAIL NO.
ASK-01



PARTIAL 1ST FLOOR PLAN

SCALE: 3/32" = 1'-0"



ARCHITECTS
RASMUSSEN
TRIEBELHORN AIA/PS

Number 9 Saint Helens
The Henry Drum House
Tacoma, WA 98402

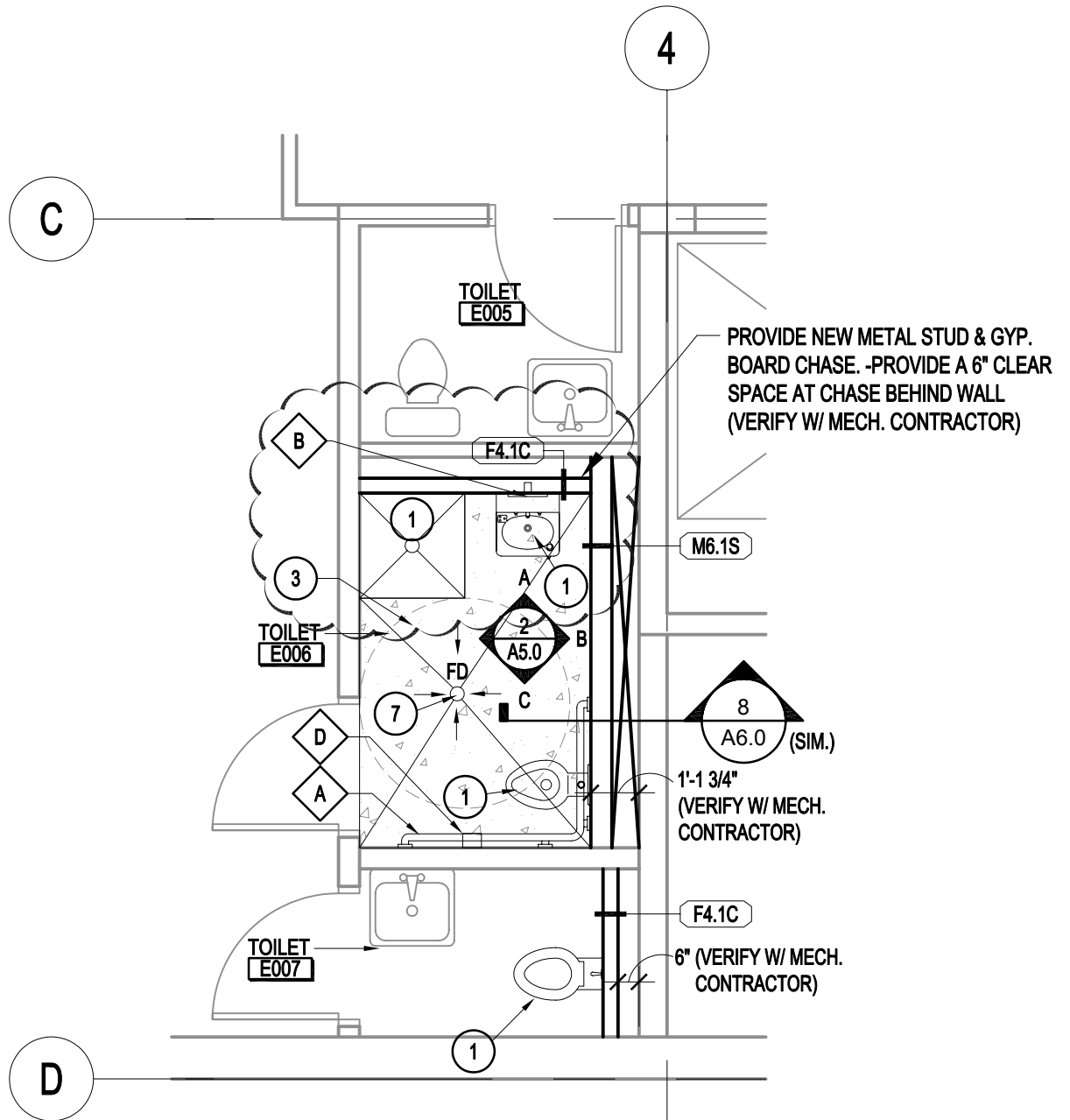
253 572-6511
253 572-6515 Fax
www.a-r-t.org

PROJECT TITLE : KITTITAS COUNTY JAIL
MECHANICAL REPAIRS
ELLENSBURG, WASHINGTON

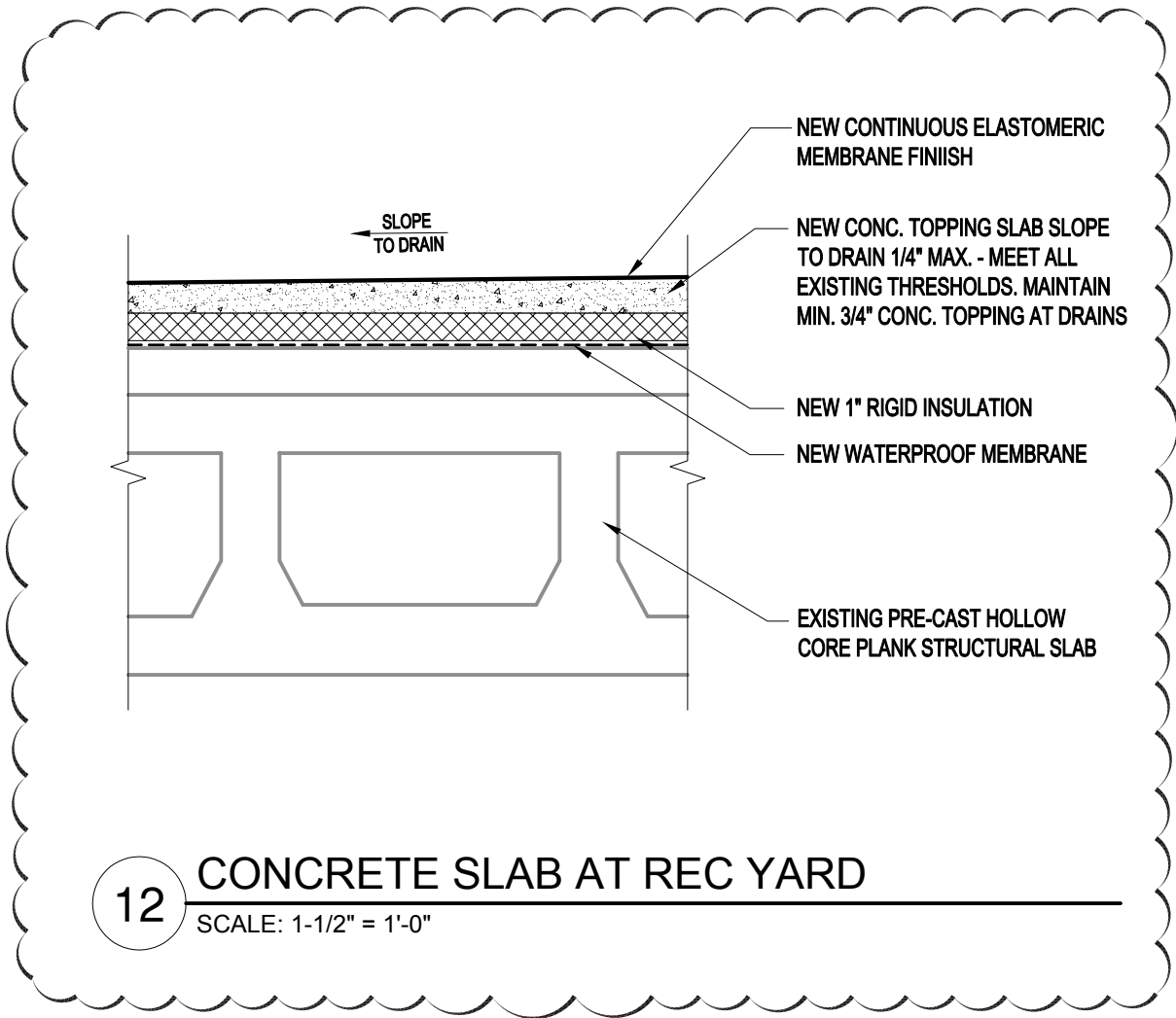
PROJECT NO : 09-098
DATE : MAR. 9, 2010

ISSUED FOR: ADDENDUM #2

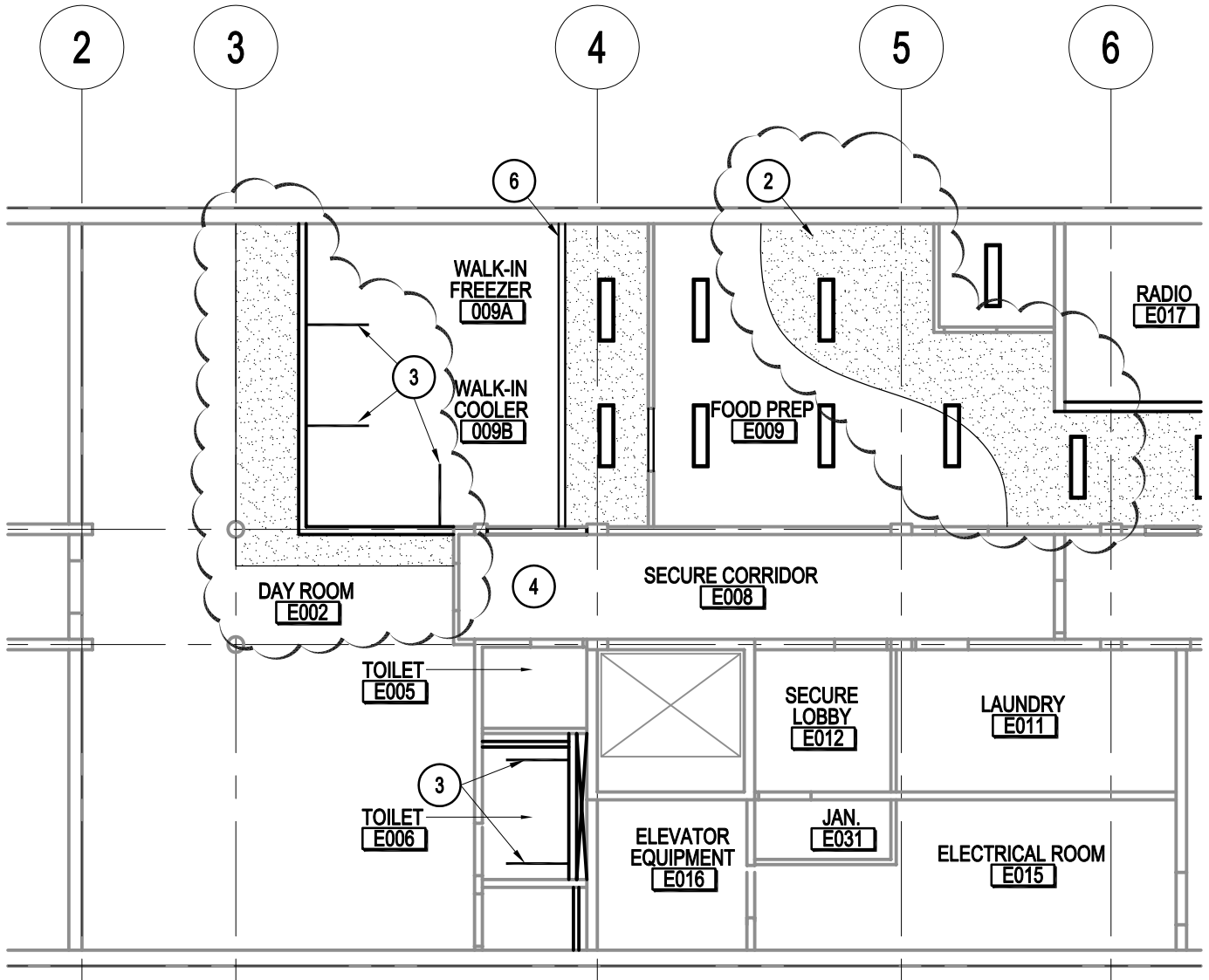
ART JOB # 0814	REFERENCE:
	A2.0
	DETAIL NO.
ASK-02	



2 ENLARGED TOILET E006
 SCALE: 1/4" = 1'-0"



12 CONCRETE SLAB AT REC YARD
 SCALE: 1-1/2" = 1'-0"



PARTIAL BASEMENT RCP

SCALE: 3/32" = 1'-0"



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PROJECT TITLE : KITTITAS COUNTY JAIL
MECHANICAL REPAIRS
ELLENSBURG, WASHINGTON

PROJECT NO : 09-098
DATE : MAR. 9, 2010

ISSUED FOR: ADDENDUM #2

ART JOB # 0814

REFERENCE:	A3.0
DETAIL NO.	ASK-05