State of Utah

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Governor

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Lt. Governor

Department of Administrative Services
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Executive Director

Division of Facilities Construction and Management
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Director

ADDENDUM NO. 3

Date: February 21, 2012

To: Contractors

From: Darrell Hunting – Project Manager

Reference: New Tooele Applied Technology College
Utah College of Applied Technology – Tooele, Utah
DFCM Project No. 11064280

Subject: **Addendum No. 3**

Pages	Addendum Cover Sheet	1	page
	Architect's Addendum No. 3	81	pages
	Total	82	pages

Note: This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.

While we contend that SB220 should only be potentially applicable to a contract issued after the effective date of said bill, this is to clarify that for purposes of this contract, regardless of the execution or effective dates of this contract, the status of Utah Law and remedies available to the State of Utah and DFCM, as it relates to any matter referred to or affected by said SB220, shall be the Utah law in effect at the time of the issuance of this Addendum.

3.1 **SCHEDULE CHANGES:** There are no Project Schedule changes.

3.2 **GENERAL ITEMS:** See attached Architect's Addendum No. 3 dated February 17, 2012.

DFCM
Division of Facilities Construction and Management
4110 State Office Building Salt Lake City, UT 84114
Telephone (801) 538-3018 FAX (801) 538-3267

ADDENDUM NO. 3
February 17th, 2012

Tooele Applied Technology College New Building
Tooele, Utah

The original specifications and drawings, dated January 20th, 2012 and amended in Addendum No.2, dated February 10th 2012 for the project referenced above are amended in the Addendum No. 3, dated February 17th 2012.

Receipt of this addendum shall be acknowledged by inserting its number and date in the space provided on the bid form.

This addendum consists of the following:

CIVIL ADDENDUM ITEMS:

AD3-C01 Sheet CS101 Site Plan
Define van stall locations to main entry ADA parking stalls, added ADA stall to secondary parking area, see attached sheet.

AD3-C02 Sheet CS101A
Added sheet, see attached.

AD3-C03 Sheet CG-101
Updates to miscellaneous ADA and exterior grading, see attached sheet.

AD3-C04 Sheet CD-502 Detail 7
Revised typical ADA ramp detail, see attached sheet.

ARCHITECTURAL ADDENDUM ITEMS:

AD3-A01 Specification 075423, Paragraph 1.7.A.2 & 3:
2. Manufacturer to sign and fill out DFCM Manufacturer Warranty for Single Ply Roofing inserted at end of Specification section 075423 see attachment.
3. Contractor to sign and fill out DFCM Contractor Warranty for Single Ply Roofing inserted at end of Specification section 075423 see attachment.

AD3-A02 Specification 086200 Skylights- paragraph 1.4.D, 084113 Aluminum Storefronts-paragraph 1.4.B, 088000 Glazing-paragraph 1.4.F:
Energy Performance Certificates: For glazed storefront walls, unit skylights, all glazing, accessories and components from manufacturer.
1. Basis for certification: NFRC-certified energy performance values for each glazed unit.

AD3-A03 Specification 018113.13
Replace entire section. See attachment

AD3-A04 Specification 088000
Replace entire section. See attachment

AD3-A05 Specification Cover Sheets
Added stamp and signature to Cover Sheet Volume 1, and Volume 2. See attachment.

AD3-A06 Sheet GI003 Plan 1 Plan, 2 Code Analysis Legeng & Requirements for Occupancy
Added "Intended path of egress" lines and arrows.
Added fire extinguisher cabinets in room C107
Changed fire extinguisher cabinet in kitchen B108 to Class K1
Added fire sprinkler deluge near glazing on west wall of rooms B111 & B223
Changed fire rated elevator shaft walls to "shaft enclosures" & added an assembly listing in the Code Analysis.
Changed National Electrical Code year to 2008.
Changed required sprinklers in Code Analysis to yes.
Added Requirements for Occupancy checklist. See attached sheet.

AD3-A07 Sheet GI004 Checklist
Added Deferred Submittal list. See attached sheet.

AD3-A08 Sheet AS501 Sections 10, & 20
Added structural reinforcing and spacing callouts. See attached sheet.

AD3-A09 Sheet AE101 Plan 1
Added stair to exterior of building. See attached sheet.

AD3-A10 Sheet AE111 Plan 1
Added wall & wall type A7 to room B107. See attached sheet.

AD3-A11 Sheet AE120A Plan 1 Level 2
Adjustments to level 2 slab edge plan for stair modifications. See attached sheet.

AD3-A12 Sheet AE122 Plan 1 Level 2
Changed door swing direction in rooms B2226 & B227.
Deleted storefront door in room B224 and adjusted the mullion spacing to storefront. See attached sheet

AD3-A13 Sheet AE151 Ceiling Plan 1
Adjusted ceiling and stair in main corridor.
Added stair to exterior of building. See attached sheet.

AD3-A14 Sheet AE152 Ceiling Plan 1
Adjusted ceiling at stair. See attached sheet.

AD3-A15 Sheet AE503 Details 14 &15
Adjusted embed location.
Added dimensions. See attached sheet.

AD3-A16 Sheet AE603 Elevation 17
Deleted door and adjusted mullion spacing. See attached sheet.

AD3-A17 Sheet AE401
Adjusted dimensions in toilet rooms. See attached sheet.

AD3-A18 Sheet AE502 detail 4
Adjusted roof hatch dimensions. See attached sheet.

AD3-A19 Sheet AE701 Plan 1
Adjusted stair landing and railing.
Added dimensions to railing for clarification. See attached sheet.

AD3-A20 Sheet AE702 Plan 1 & Section 2
Adjusted stair landing and railing.
Added dimensions to railing for clarification.
Added note to clarify tread clearance. See attached sheet.

AD3-A21 Sheet AE703 Plan 20
Adjusted stair landing and railing.
Added dimensions to railing for clarification. See attached sheet.

AD3-A22 Sheet AE806 Details 2, 3, 4, & 5
Modified detail to show seismic strut post.
Added detail callouts for clarification.
Modified clip angle note. See attached sheet.

STRUCTURAL ADDENDUM ITEMS:

AD3-S01 Sheet SE002
1. Deleted note 5.5.B from General Structural Notes. Section 5.5 was reordered.
2. Added note 5.9.N to General Structural Notes. It reads, "At completion of manufacture, the steel joist manufacturer shall submit a certificate of compliance stating that work was performed in accordance with approved construction documents and with SJI standard specifications."

AD3-S02 Sheet SB102
1. Deleted "Unreinforced" from all 6" slab on grade callouts.

AD3-S03 Sheet SB103
1. Deleted "Unreinforced" from all 6" slab on grade callouts.
2. Added detail callout A1/SB501 at FTS2.0.

AD3-S04 Sheet SB501
1. Added detail A1/SB501. See attached ADD-03-S01

AD3-S05 Sheet SB502
1. Indicated that concrete footing is 12" and edged of footing extends 12" beyond face of foundation wall on details D1/SB502, D2/SB502, and D3/SB502.
2. Change "pier ties @ 3" o.c." to 3-#3 ties within top 5" on details A2/SB502. B1/SB502, B2/SB502, and C2/SB502.
3. Clarified spacing of 7-#4 bars to be "18" o.c. max" on detail A5/SB502.

AD3-S06 Sheet SB503
1. Deleted option for alternate detail on detail D5/SB503.

AD3-S07 Sheet SB504
1. Changed horizontal reinforcement for the Typical tilt-up panel to #4 @ 6" o.c. on the Concrete Tilt-up Panel Reinforcing Schedule.
2. Added note 3 to Concrete Tilt-up Reinforcing Schedule that reads, "Provide 135° hook @ ea. end of horizontal reinforcement."
3. Added note 4 to Concrete Tilt-up Panel Jamb Reinforcing Schedule that reads, "Provide #3 @6" o.c. closed stirrups that extend full height of jamb column."
4. Added reference to note 4 on TJ-7 on the Concrete Tilt-up Panel Jamb Reinforcing Schedule.

AD3-S08 Sheet SB505
1. Modified detail D2/SB505. See attached ADD-03-S02

AD3-S09 Sheet SB601
1. Modified footing dimensions and reinforcing at clouded areas on the Concrete Footing Schedule.
2. Added CFW-5 to the Concrete Foundation Wall Schedule. See attached.

AD3-S10 Sheet SB602
1. Changed reinforcing on ML-1 to "1-#3 cont." on the Masonry Lintel Schedule.
2. Changed reinforcing on ML-2 to "1-#6 cont. Top & Bot." on the Masonry Lintel Schedule.
3. Changed horizontal reinforcing on MSW-2 to #5 @ 24" o.c. on the Masonry Wall Schedule.

AD3-S11 Sheet SF201
1. Modified wall panels on SF201 at clouded areas. See attached

AD3-S12 Sheet SF202
1. Modified wall panels on SF202 at clouded areas. See attached

AD3-S13 Sheet SF203
1. Modified wall panels on SF203 at clouded areas. See attached

AD3-S14 Sheet SF212
1. Changed detail reference at footing to D4/SF214 on detail C2/SF212.

AD3-S15 Sheet SF213
1. Added detail B2/SF213. See attached ADD-03-S03

AD3-S16 Sheet SF504
1. Changed detail D3/SB504 to reference A4/SF501.

MECHANICAL AND PLUMBING ADDENDUM ITEMS:

DIVISION – 22 & 23
GENERAL

1. The section number in the footers of all plumbing and mechanical specification sections are incorrect. Use the section number at the beginning of each section.
2. The fan wall unit shall be powder coated as specified in section 237325.

DRAWINGS

AD3-M01 SHEET - ME604
1. Updated the split air conditioning unit schedule to add AC/CU-7&8. See attached.

AD3-M02 SHEET - MH130
1. Add Split AC condensing units CU-7 and CU-8. See attached.

AD3-M03 SHEET - MP121
1. Add Split AC units AC-7 and AC-8 to Server/IT Storage A210 and associated refrigerant piping. See attached.

AD3-M04 SHEET - PL121
1. Add condensate drain line to serve AC-7 and AC-8 in Server/IT Storage A210. See attached.

SPECIFICATIONS

AD3-M05 SECTION - 230993-1.21.A Sequence of operations
1. The sequence shall be modified as follows: "A DDC controller shall monitor the space temperature in the boiler room via a wall mounted temperature sensor. When the temperature rises above the ventilation setpoint (adj) then the controller shall enable the boiler room exhaust fan. The intake damper shall be interlocked such that when the exhaust fan is running, it opens. **A motorized 24V backdraft damper located in the roof hood intake RH-1 shall be interlocked to open when the exhaust fan is running.**"

AD3-M06 SECTION - 234870-2.01.A Manufacturers:
1. Part A shall be modified as follows:
1) Oventrop OVF-32 flat panel collector
2) Substitutions: Viessmann
2. Part A: General Mechanical Requirements for substitution information and numbers 3 thru 5 shall be deleted.

AD3-M07 SECTION - 234870-2.02.A
1. Part A shall be changed to read: "The collector shall consist of qty (6) 4 by 8 foot flat panels."

AD3-M08 SECTION - 234870-3.02.V
1. Part V shall be changed to read: "Select system relief valve capacity so that it is greater than make-up pressure reducing valve capacity. Select equipment relief valve capacity to exceed rating of connected equipment. Pipe relief valve outlet to glycol fill tank."

AD3-M09 SECTION - 220516
1. This specification section is missing. The section shall be as follows:

AD3-M10 SECTION 220516 - EXPANSION FITTINGS AND LOOPS FOR PLUMBING PIPING

GENERAL SHEET - SUMMARY
1. Section Includes:
A. Metal-bellows packless expansion joints.
B. Pipe loops and swing connections.
C. Alignment guides and anchors.
SHEET - ACTION SUBMITTALS
1. Product Data: For each type of product indicated.
2. Delegated-Design Submittal: For each anchor and alignment guide indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
A. Design Calculations: Calculate requirements for thermal expansion of piping systems and for selecting and designing expansion joints, loops, and swing connections.
B. Anchor Details: Detail fabrication of each anchor indicated. Show dimensions and methods of assembly and attachment to building structure.
C. Alignment Guide Details: Detail field assembly and attachment to building structure.
D. Schedule: Indicate type, manufacturer's number, size, material, pressure rating, end connections, and location for each expansion joint.
SHEET - INFORMATIONAL SUBMITTALS
1. Welding certificates.
2. Product certificates.
SHEET - CLOSEOUT SUBMITTALS
1. Maintenance data.
SHEET - QUALITY ASSURANCE
1. Welding Qualifications: Qualify procedures and personnel according to the following:
A. AWS D1.1/D1.1M, "Structural Welding Code - Steel."
B. ASME Boiler and Pressure Vessel Code: Section IX.
PRODUCTS SHEET - PACKLESS EXPANSION JOINTS
1. Metal-Bellows Packless Expansion Joints:
A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1) Expansion Joint Systems, Inc.
2) Flex-Hose Co., Inc.
3) Flexicraft Industries.
4) Flex Pression Ltd.
5) Flo Fab inc.
6) Hyspan Precision Products, Inc.
7) Metraflex, Inc.
8) Tozen Corporation.
9) Unaflex.
10) Unisource Manufacturing, Inc.
11) Universal Metal Hose; a subsidiary of Hyspan Precision Products, Inc.
12) U.S. Bellows, Inc.
B. Standards: ASTM F 1120 and EJMA's "Standards of the Expansion Joint Manufacturers Association, Inc."
C. Type: Circular, corrugated bellows with external tie rods.
D. Minimum Pressure Rating: 175 psi unless otherwise indicated.
E. Configuration: double joint with base class(es) unless otherwise indicated.
F. Expansion Joints for Copper Tubing: Single- or multi-ply phosphor-bronze bellows, copper pipe ends, and brass shrouds.
1) End Connections for Copper Tubing NPS 2 and Smaller: Solder joint or threaded.
2) End Connections for Copper Tubing NPS 2-1/2 to NPS 8: Solder joint or threaded or flanged.
SHEET - ALIGNMENT GUIDES AND ANCHORS
1. Alignment Guides:

A. Description: Steel, factory-fabricated alignment guide, with bolted two-section outer cylinder and base for attaching to structure; with two-section guiding spider for bolting to pipe.
2. Anchor Materials:
A. Steel Shapes and Plates: ASTM A 36/A 36M.
B. Bolts and Nuts: ASME B18.10 or ASTM A 183, steel hex head.
C. Washers: ASTM F 844, steel, plain, flat washers.
D. Mechanical Fasteners: Insert-wedge-type stud with expansion plug anchor for use in hardened portland cement concrete, with tension and shear capacities appropriate for application.
1) Stud: Threaded, zinc-coated carbon steel.
2) Expansion Plug: Zinc-coated steel.
3) Washer and Nut: Zinc-coated steel.
E. Chemical Fasteners: Insert-type-stud, bonding-system anchor for use with hardened portland cement concrete, with tension and shear capacities appropriate for application.
1) Bonding Material: ASTM C 881/C 881M, Type IV, Grade 3, two-component epoxy resin suitable for surface temperature of hardened concrete where fastener is to be installed.
2) Stud: ASTM A 307, zinc-coated carbon steel with continuous thread on stud unless otherwise indicated.
3) Washer and Nut: Zinc-coated steel.
EXECUTION SHEET - EXPANSION-JOINT INSTALLATION
1. Install expansion joints of sizes matching sizes of piping in which they are installed.
2. Install metal-bellows expansion joints according to EJMA's "Standards of the Expansion Joint Manufacturers Association, Inc."
SHEET - PIPE LOOP AND SWING CONNECTION INSTALLATION
1. Install pipe loops cold-sprung in tension or compression as required to partly absorb tension or compression produced during anticipated change in temperature.
2. Connect risers and branch connections to mains with at least five pipe fittings including tee in main.
3. Connect risers and branch connections to terminal units with at least four pipe fittings including tee in riser.
4. Connect mains and branch connections to terminal units with at least four pipe fittings including tee in main.
SHEET - ALIGNMENT-GUIDE AND ANCHOR INSTALLATION
1. Install alignment guides to guide expansion and to avoid end-loading and torsional stress.
2. Install guide(s) on each side of pipe expansion fittings and loops. Install guides nearest to expansion joint not more than four pipe diameters from expansion joint.
3. Attach guides to pipe and secure guides to building structure.
4. Install anchors at locations to prevent stresses from exceeding those permitted by ASME B31.9 and to prevent transfer of loading and stresses to connected equipment.
5. Anchor Attachments:
A. Anchor Attachment to Black-Steel Pipe: Attach by welding. Comply with ASME B31.9 and ASME Boiler and Pressure Vessel Code: Section IX, "Welding and Brazing Qualifications."
B. Anchor Attachment to Galvanized-Steel Pipe: Attach with pipe hangers. Use MSS SP-69, Type 42, riser clamp welded to anchor.
C. Anchor Attachment to Copper Tubing: Attach with pipe hangers. Use MSS SP-69, Type 24, Ubolts bolted to anchor.
6. Fabricate and install steel anchors by welding steel shapes, plates, and bars. Comply with ASME B31.9 and AWS D1.1/D1.1M.
A. Anchor Attachment to Steel Structural Members: Attach by welding.
B. Anchor Attachment to Concrete Structural Members: Attach by fasteners. Follow fastener manufacturer's written instructions.
7. Use grout to form flat bearing surfaces for guides and anchors attached to concrete.
END OF SECTION 220516

AD3-M11 SECTION - 232123

1. This section is out of order. It is located between sections 220513 and 220517.

AD3-M12 SECTION - 235524-2.1. A

1. Add Ambirad to the approved manufacturers list.

AD3-M13 SECTION - 237325-2.1. A

1. Add Temtrol to the approved manufacturers list.

AD3-M14 SECTION - 237330

1. Delete specification section 237330.

AD3-M15 SECTION - 238242

1. This specification section is missing. The section shall be as follows:

AD3-M16 SECTION 238240 - TERMINAL UNITS

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of Contract, including General and Supplementary Conditions and

Division-1 Specification sections, apply to work of this section.

B. Division-23 Basic Mechanical Materials and Methods sections apply to work of this section.

1.2 DESCRIPTION OF WORK

A. Extent of terminal unit work is indicated by drawings and schedules, and by requirements of this section.

B. Types of terminal units required for project include the following:

1. Finned tube radiation.
2. Unit heaters.
3. Cabinet heaters.
4. Coils.

C. Refer to other Division-23sections for piping; ductwork; and testing, adjusting and balancing of terminal units.

D. Refer to Division-26 sections for the following work.

1. Power supply wiring from power source to power connection on terminal unit. Include starters, disconnects, and required electrical devices, except where specified as furnished, or factoryinstalled, by manufacturer.

E. Provide the following electrical work as work of this section, complying with requirements of Division- 26 sections:

1. Control wiring between field-installed controls, indicating devices, and terminal unit control panels.

a. Control wiring specified as work of Division-23 for Automatic Temperature Controls is work of that section.

1.3 QUALITY ASSURANCE

A. Codes and Standards:

1. I=B=R Compliance: Test and rate baseboard and finned tube radiation in accordance with I=B=R, provide published ratings bearing emblem of I=B=R.
2. ARI Compliance: Provide coil ratings in accordance with ARI Standard 410 "Forced-Circulation Air-Cooling and Air-Heating Coils".
3. ASHRAE Compliance: Test coils in accordance with ASHRAE Standard 33 "Methods of Testing Forced Circulation Air Cooling and Heating Coils".
4. ARI Compliance: Test and rate fan-coil units in accordance with ARI Standard 440 "Room Fan- Coil Air Conditioners".
5. UL Compliance: Construct and install fan-coil units in compliance with UL 883 "Safety Standards for Fan Coil Units and Room Fan Heater Units".
6. ARI Compliance: Test and rate unit ventilators in accordance with ARI Standard 330 "Unit Ventilators".
7. UL Compliance: Provide electrical components for terminal units which have been listed and labeled by UL.

1.4 SUBMITTALS

A. Product Data: Submit manufacturer's specifications for terminal units showing dimensions, capacities,ratings, performance characteristics, gages and finishes of materials, and installation instructions.
B. Shop Drawings: Submit assembly-type shop drawings showing unit dimensions, construction details, and field connection details.
C. Wiring Diagrams: Submit manufacturer's electrical requirements for power supply wiring to terminal units. Submit manufacturer's ladder-type wiring diagrams for interlock and control wiring. Clearly differentiate between portions of wiring that are factory-installed and portions to be field-installed.
D. Samples: Submit 3 samples of each type of cabinet finish furnished.
E. Maintenance Data: Submit maintenance instructions, including lubrication instructions, filter replacement, motor and drive replacement, and spare parts lists. Include this data, product data, shop drawings in maintenance manuals.
1.5 DELIVERY, STORAGE, AND HANDLING
A. Handle terminal units and components carefully to prevent damage, breaking, denting and scoring. Do not install damaged terminal units or components; replace with new.
B. Store terminal units and components in clean dry place. Protect from weather, dirt, fumes, water, construction debris, and physical damage.
C. Comply with Manufacturer's rigging and installation instructions for unloading terminal units, and moving them to final location.
PART 2 - PRODUCTS
2.1 FINNED TUBE RADIATION
A. General: Provide finned tube radiation of lengths and in locations as indicated; and of capacities, style, and having accessories as scheduled.
B. Cabinets: Minimum 18-ga cold-rolled steel full backplate, minimum 14-ga front. Brace and reinforce front minimum of 4'-0" O.C. without visible fasteners.
C. Elements: Copper tube and aluminum fins, with tube mechanically expanded into fin collars to eliminate noise and insure durability and performance at scheduled ratings.
D. Finish: Flat black heat resisting paint for backplate; factory finished baked enamel, colors as directed by Architect, on fronts and accessories.
E. Accessories:
1. End panels, inside and outside corners, and enclosure extension.
2. Access panels in front of valves, balancing cocks, and traps.
3. Factory-mounted dampers.
4. Sill extensions.
5. Mullion channels.
6. Pilaster covers.
F. Manufacturer: Subject to compliance with requirements, provide finned tube radiation of one of the following:
1. Dunham-Bush, Inc.
2. Edwards Engineering Corp.
3. Slant/Fin Corp.
4. Standard Fin-Pipe Radiator Corp.
5. Sterling Radiator; Div. of Reed National Corp.
6. Ted Reed Thermal, Inc.
7. Trane (The) Co.
8. Vulcan Radiator Co.
2.2 UNIT HEATERS
A. General: Provide unit heaters in locations as indicated, and of capabilities, style, and having accessories as scheduled.
B. Horizontal Unit Heaters:
1. Casings” Construct of steel, phosphatized inside and out, and finished with baked enamel. Provide motor-mounted panel, minimum of 18-ga steel. Fabricate casing to enclose coil, louvers, and fan blades. Provide louvers for 4-way air diffusion.

2. Fans: Construct of aluminum, and factory-balance. Provide fan inlet orifice, smooth, and drawn into casing back panel.
C. Vertical Unit Heaters:
1. Casings: Construct of steel, phosphatized inside and out, and finished with baked enamel. Design casing to enclose fan, motor, and coil, design fan orifice formed into discharge panel. Provide air diffusers as scheduled.
2. Fans: Construct of aluminum, and factory-balance. Provide fan inlet orifice, smooth, and drawn into casing back panel.
D. Coils: Construct of plate-type aluminum fins, mechanically bonded to copper tubes. Design coil for use in steam or hot water applications.
E. Motors: Provide totally enclosed motors, with built-in overload protection, hacing electrical characteristics as scheduled.
F. Manufacturer: Subjuect to compliance with requirements, provide unit heaters of one of the following:
1. Airtherm Mfg. Co.
2. Buffalo Forge Co.
3. Dunham-Bush Inc.
4. McQuay Inc.
5. Modine Mfg. Co.
6. Ted Reed Thermal, Inc.
7. Trane (The) Co.
8. Wing (The) Co.; Div. Wing Industries, Inc.
9. Young Radiator Co.
2.3 CABINET HEATERS
A. General: Provide cabinet heaters having cabinet sizes and in location as indicated, and of capacities, style, and having accessories as scheduled. Include in basic unit chassis, coil, fanboard, fan wheels, housings, motor, and insulation.
B. Chassis: Galvanized steel wrap-around structural frame with edges flanged.
C. Insulation: Faced, heavy density glass fiber.
D. Cabinet: 14-ga removable front panel, 18-ga top and side panels. Insulate front panel over entire coil section. Provide access door on coil connection side. Clean cabinet parts, bonderize, phosphatize,
and flow-coat with baked-on primer and baked enamel finish.
E. Water Coils: Construct of 518" seamless copper tubes mechanically bonded to configurated aluminum fins. Design for 300 psi and leak test at 300 psi under water.
F. Provide same end connections for supply and return.
G. Fans: Provide centrifugal, forward curved double width fan wheels constructed of non-corrosive, molded, fiberglass- reinforced thermo-plastic material. Construct fan scrolls of galvanized steel.
H. Motors: Provide shaded pole motors with integral thermal over-load protection, and motor cords for plug-in to junction box in unit.
I. Filters: Provide 1" thick throwaway type filters in fiberboard frames.
J. Accessories: Provide the following accessories as indicated and1 or scheduled.
1. Wall Boxes: Provide aluminum wall boxes with integral eliminators and insect screen.
2. Recessing Flanges: Provide 18-ga steel flanges for recessing cabinet heaters into wall or ceiling.
3. Sub-bases: Provide 18-ga steel sub-base for vertical units, height as indicated.
4. Extended Oilers: Provide plastic motor oiler tubes extending to beneath top discharge grille.
K. Manufacturer: Subject to compliance with requirements, provide cabinet heaters of one of the following:
1. Airtherm Mfg. Co.
2. Dunham-Bush, Inc.
3. McQuay Inc.
4. Ted Reed Thermal, Inc.

5. Trane (The) Co.
6. Young Radiator Co.
2.4 COILS
A. General: Provide coils of size and in location indicated, and of capacities and having performance data as scheduled. Certify coil capacities, pressure drops, and selection procedures in accordance with ARI 410.
B. Heating Coils:
1. Fins: Construct of continuous aluminum or copper configurated plate-fin type with full fin collars for accurate spacing and maximum fin-tube contact.
2. Tubes: Construct of copper tubing, expanded into fin collars for permanent fin-tube bond and expanded into header for permanent leaktight joint.
3. Headers: Construct of gray cast iron for coils 33" high and smaller. Hydrostatically test to 400 psi before assembly. Construct of round seamless copper tube for coils over 33" high.
4. Casings: Construct of 16-ga continuous coated galvanized steel with fins recessed into channels to minimize air bypass.
5. Testing: Proof test coils at 300 psi, leak test at 200 psi under water.
6. Coil Types: Provide the following coil types as indicated, and as scheduled.
a. Hot Water to 200 psi, 250 degrees F (121 degrees C): Provide 1- row. 518" tubes, oppositeend connection coil.
b. Hot Water to 200 psi, 325 degrees F (163 degrees C): Provide 1- row, 518" tubes, oppositeend connection coil. Reinforce each tube-to-header joint with brass bushing.
c. Hot Water to 200 psi, 220 degrees F (104 degrees C): Provide 2- row, 518" tubes, sameend connection coil. Provide rolled tube-to-header joints for coil heights 33" and smaller. Provide brazed tube-to- header joints for coil heights over 33".
d. Hot Water to 225 psi, 325 degrees F (163 degrees C): Provide 1-or 2-row, 518" tubes, sameend connection, dual-tube-feed coil. Reinforce tube-to-header joints with brass bushings and provide expanded joints.
e. Hot Water to 225 psi, 325 degrees F (163 degrees C) and Steam to 200 psi, 400 degrees F (204 degrees C): Provide 1 - or 2-rows, 518" tubes, single tube continuous circuit, sameend connection coil. Roll connection tube.
PART 3 - EXECUTION
3.1 INSPECTION
A. Examine areas and conditions under which terminal units are to be installed. Do not proceed with work until unsatisfactory conditions have been corrected in manner acceptable to Installer.
3.2 INSTALLATION OF FINNED TUBE RADIATION
A. General: Install finned tube radiation as indicated, and in accordance with manufacturer's installation instructions.
B. Locate finned tube radiation on outside walls as indicated, run cover wall-to-wall unless otherwise indicated.
C. Center elements under windows. Where multiple windows occur over units, divide elements into equal segments centered under each window.
D. Install end caps where units butt against walls. Install access panels centered in front of each shutoff valve, balancing cock, steam trap, or temperature control valve.
3.3 INSTALLATION OF UNIT HEATERS
A. General: Install unit heaters as indicated, and in accordance with manufacturer's installation instructions.
B. Uncrate units and inspect for damage. Verify that nameplate data corresponds with unit designation.
C. Hang units from building substrate, not from piping. Mount as high as possible to maintain greatest headroom possible unless otherwise indicated.
D. Support units with rod-type hangers anchored to building substrate.
E. Install piping as indicated.
F. Protect units with protective covers during balance of construction
3.4 INSTALLATION OF CABINET HEATERS

A. General: Install cabinet heaters as indicated, and in accordance with manufacturer's installation instructions.
B. Locate cabinet heaters as indicated, coordinate with other trades to assure correct recess size for recessed units.
C. Install piping as indicated.
D. Protect units with protective covers during balance of construction.
3.5 INSTALLATION OF COILS
A. General: Install coils as indicated, and in accordance with manufacturer's installation instructions.
B. Mount coils on steel supports to form banks or stacks as indicated, brace, secure to air intake chamber. Place in location to permit installation of bypass damper if required, provide steel baffles where required to prevent bypassing of air.
C. Pitch coil casings for drainage, not less than 118" toward return connections, except where drainage feature is included in coil design.
D. Provide for each hot or chilled water coil unit, water supply, return connection, strainer, gate valves, automatic temperature regulating valve, balancing cocks, as indicated.
3.6 ELECTRICAL WIRING
A. General: Install electrical devices furnished by manufacturer but not specified to be factory-mounted. Furnish copy of manufacturer's wiring diagram submittal to Electric Installer.
1. Verify that electrical wiring installation is in accordance with manufacturer's submittal and installation requirements of Division-26 sections. Do not proceed with equipment start-up until wiring installation is acceptable to equipment installer.
3.7 ADJUSTING AND CLEANING
A. General: After construction is completed, including painting, clean unit exposed surfaces, vacuum clean terminal coils and inside of cabinets.
B. Retouch any marred or scratched surfaces of factory-finished cabinets, using finish materials furnished by manufacturer.
C. Install new filter units for terminals requiring same.
END OF SECTION 238240

AD3-M17 **PRIOR APPROVALS**

The following manufacturers, trade names and products are allowed to bid on a name brand only basis with the provision that they completely satisfy all and every requirement of the drawings, specifications and all addenda. Manufacturers, trade names and products shall conform to the design, quality and standards specified, established and required for the complete and satisfactory installation and performance of the building and all its respective parts.

Item Manufacturer Comments

Calibrated Balancing Valve Nexus Valve Approved
Air Separator Patterson Plump Company Rejected
Expansion Tanks Patterson Plump Company Rejected
Pump Suction Diffusers Patterson Plump Company Rejected
Flexible Connectors Patterson Plump Company Rejected
HVAC Pumps Patterson Plump Company Rejected
Boilers Fulton Rejected
Unit Heater Sigma Corporation Approved
Cabinet Unit Heaters Sigma Corporation Approved
Finned Tube Radiant Panels Sigma Corporation Approved
Variable Frequency Drives Cerus Industries By Div 26
Plat & Frame Heat Exchanger APV Approved
Domestic Piping Aquatherm Rejected
Hot Water Hydronic Piping Aquatherm Rejected
Chilled Water Hydronic Piping Aquatherm Rejected
Rain Water Piping Aquatherm Rejected

ELECTRICAL ADDENDUM ITEMS:

AD3-E01 Sheet ES101:

1. The site lighting has been modified. Please see the attached drawing.
2. Additional fixtures have been added. Please see the attached drawing.

AD3-E02 Sheet EP130:

1. The mechanical equipment has been modified to match the mechanical drawings. Please see the attached drawing.
2. The names and locations of mechanical equipment has been modified to match the mechanical drawings. Please see the attached drawing.
3. The circuiting has been modified due to the added electrical panel in Addendum #2. Please see the attached drawing.

AD3-E03 Sheet EL111:

3. Vestibule B102 has emergency lighting.
4. Corridor B100 has emergency lighting and exit signs no more than 100 feet apart. An exit sign has been added to corridor, please see revised sheet EL111.
5. Toilet A113 has been update to show emergency lighting. Please see revised sheet EL111.
6. Instruction Toilet A115 has been update to show emergency lighting. Please see revised sheet EL111.
7. LPN/CNA Classroom 126 has an occupancy of 35 and has an emergency light fixture at the exit, no exit signs are required in this space.
8. RN Classroom 127 has an occupancy of 36 and has an emergency light fixture at the exit, no exit signs are required in this space.
9. LPN/RN/CNA Classroom 128 has an occupancy of 37 and has an emergency light fixture and exit sign at the exit.
10. Medical Assisting Classroom A101 has an occupancy of 38 and has an emergency light fixture at the exit, no exit signs are required in this space.
11. Storage A103 has an occupancy of 1 and does not have or require emergency lighting.
12. Exam A107 has an occupancy of 3 and does not have or require emergency lighting.
13. Medical Assisting Lab A104 has an occupancy of 20 with a combined load of 35. The said space has an emergency light fixture at the exit and does not have or require exit sign.
14. Multipurpose Room B103 has an occupancy of 131, has emergency lighting, and exit signs at each exit.

AD3-E04 Sheet EL112:

4. Shelled Lab C101 has an occupancy of 60, has emergency lighting, and exit signs at each exit.
5. Construction Technology Lab C103 has an occupancy of 77, has emergency lighting, and exit signs at each exit.
6. Cafeteria B111 has an occupancy of 95, has emergency lighting, and exit signs at each exit.

AD3-E05 Sheet EL113:

1. Welding Lab!1 C107 has an occupancy of 87, has emergency lighting, and exit signs at each exit.
2. CE & R Lab C121 has an occupancy of 102, has emergency lighting, and exit signs at each exit.
3. Corridor C100 is approximately 90 feet long, has emergency lighting, and exit signs the exit.

AD3-E06 Sheet EL121: ELECTRICAL REVIEW COMMENTS

Tooele Applied Technical Center February 17, 2012
Addendum #3
Spectrum Engineers ! Page 2 of 2

1. Corridor B200 is approximately 100 feet long, has emergency lighting, and an exit sign has been added midway through the corridor. Please see revised sheet EL121.
2. Main Corridor has an exit sign no more that every 65 feet and has emergency lighting.

AD3-E07 Sheet EL122:

1. Reception/Waiting!2 B223 has an occupancy of 19 with a combined load of 87. The said space has emergency lighting and exit signs at each exit.
2. Boardroom B224 has an occupancy of 68, has an emergency lighting, and exit signs at each exit.
3. Workroom B226 has an occupancy or 21 with a combined load of 50. The said space has had emergency lighting added in the path of egress and exit signs at each exit. Please see revised sheet EL122.
4. Faculty/Break B227 has an occupancy or 21 with a combined load of 50. The said space has had emergency lighting added in the path of egress and exit signs at each exit. Please see revised sheet EL122.

AD3-E08 Sheet FA122:

1. Mechanical equipment ERV!2 is now shown with a duct detector and fire smoke damper.
2. Mechanical equipment AH!3 is now shown with a duct detector on the supply and return fans and with fan shutdown.

KITCHEN ADDENDUM ITEMS:

AD3-FS01 SPECIFICATION SECTION 11400 ITEM #K-37 DROP-IN STAINLESS STEEL HAND SINK

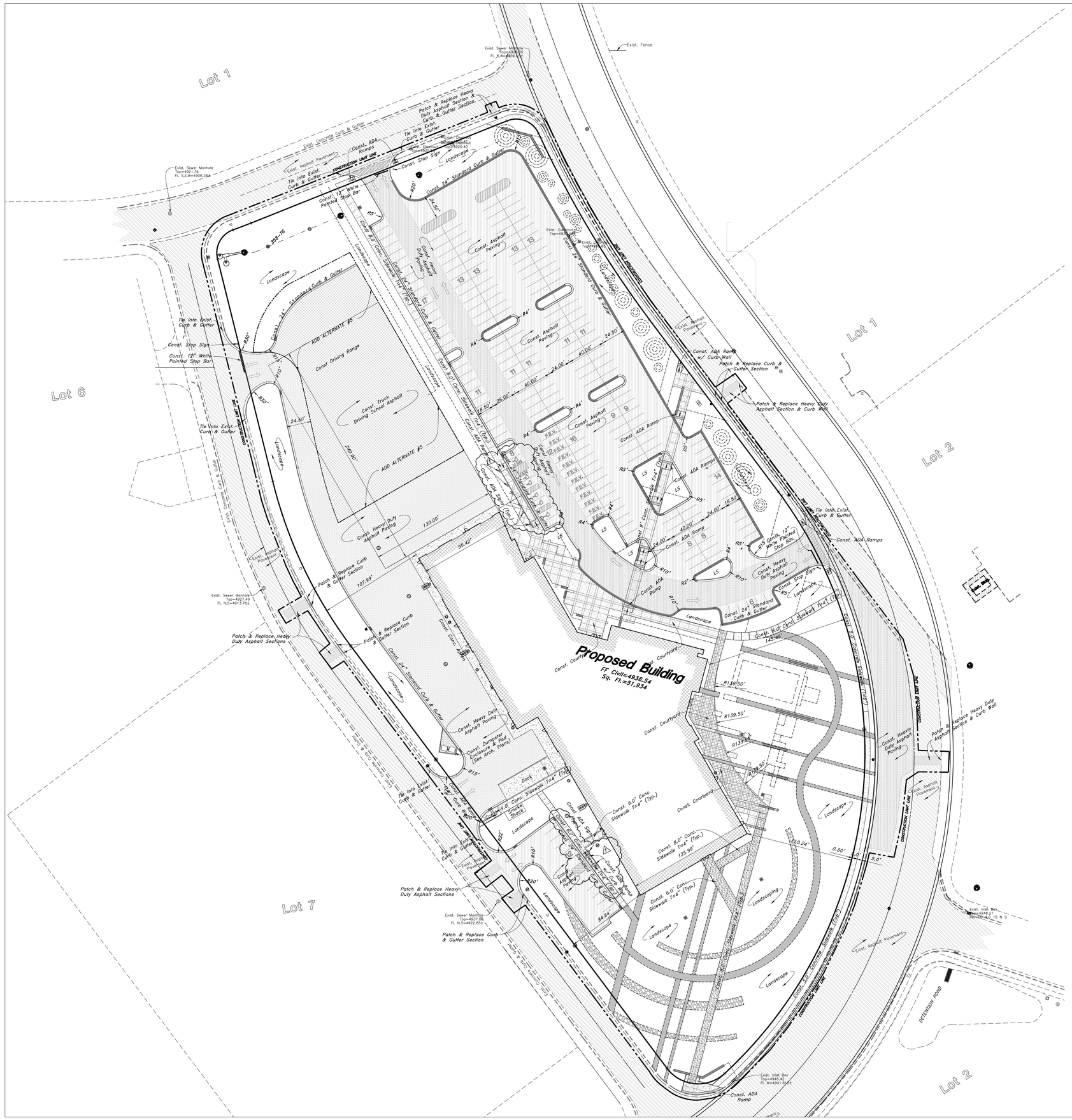
The changes are highlighted in bold font.
Quantity: (1) each
Manufacturer: Custom Metal Fabricator
Model Number: Custom, as per plans and details.
Dimensions: 15”W x 18”D x 12”D
Utility Requirements: A) ½” hot and cold water.
B) 1-1/2” indirect drain.
Accessories: A) (1) each deck mount lever handle faucet.
B) Drain stop with built in overflow.
C) Weld into stainless steel top.
D) Provide stainless steel side splash guard.
Installation Instructions: A) Build into work table, item #K-36, as per plan.

AD3-FS02 Sheet #FS101:

1. Change K-37 to Drop-in Hand Sink with Splash Guard. See attached.

AD3-FS03 Sheet #FS103:

1. Add PR#P-06F: Drain for Hand Sink to floor sink.
2. Add PR#P-23: Add Hot and Cold water for Hand Sink. See attached.



Scale: 1" = 40'

40 0 10 20 40 50 60 70 80

Graphic Scale

Legend

(Note: All Items may not appear on drawing)

San. Sewer Manhole	S
Water Manhole	W
Storm Drain Manhole	D
Electrical Manhole	E
Catch Basins	
Exist. Fire Hydrant	
Fire Hydrant	
Exist. Water Valve	
Water Valve	
Sanitary Sewer	—S—
Culinary Water	—W—
Gas Line	—G—
Irrigation Line	—IW—
Storm Drain	—SD—
Telephone Line	—T—
Secondary Waterline	—SW—
Power Line	—P—
Fire Line	—F—
Land Drain	—LD—
Power pole	
Power pole w/guy	
Light Pole	
Fence	x x x
Flowline of ditch	
Overhead Power line	—OHP—
Corrugated Metal Pipe	CMP
Concrete Pipe	CP
Reinforced Concrete Pipe	RCP
Ductile Iron	DI
Polyvinyl Chloride	PVC
Top of Asphalt	TA
Edge of Asphalt	EA
Centerline	CL
Flowline	FL
Finish Floor	FF
Top of Curb	TC
Top of Wall	TWL
Top of Walk	TW
Top of Concrete	TCN
Natural Ground	NG
Finish Grade	FG
Fire Department Connection	FDC
Finish Contour	—90—
Exist. Contour	- - 90 - -
Finish Grade	95.33TA
Exist. Grade	95.72TA
Ridge Line	— R —
Direction of Flow	
Existing Asphalt	
New Asphalt	
Heavy Duty Asphalt	
Concrete	
Open Face Curb & Gutter	
Demo Tree	

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Site Date Table:
Site Area=368784 sf
Building Foot Print =52,639 sf = 14.18%
Parking Stalls =227
ADA Parking Stalls =7
Standard Asphalt Paving Area = 77,277 sf=20.9%
Med. Duty Asphalt Paving Area = 29,062 sf=7.9%
Heavy Duty Asphalt Paving Area = 30,482 sf=8.3%
Walk Area = 7,083 sf=1.9%
Apron Area =4,191 sf=1.1%
Courtyard Area = 12,221 sf=3.3%
Landscape Area = 156,154 sf=42.3%

General Site Notes:
1. Stalls designated as handicap will require a painted handicap symbol and sign. (See Details)
2. Fire lane markings and signs to be installed as directed by the Fire Marshall.
3. Aisle markings, directional arrows and stop bars will be painted at each driveway as shown on the plans.
4. See Horizontal Control plan for coordinates, radiuses and detailed dimensions of site improvements.
5. Building sidewalks, ramps, and bollards are building contractor responsible items. See architectural plans.
6. All dimensions are to back of curb unless otherwise noted.

PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

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ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY

LICENSED PROFESSIONAL ENGINEER No. 5339572 CHRISTIAN MICHAELSON STATE OF UTAH
11/01/2011

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242 south 400 east
salt lake city, utah 84111
phone:(801) 532-4422

consultants:

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Ogden, Utah 84403 Main (801)394-4515
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project:

Tooele Applied Technology College - New Building

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/2011

revisions :

1 02/17/2012 - ADDENDUM 3

NOT FOR CONSTRUCTION

Site Plan

sheet:

CS-101

100% DFCM Review Set

Earthwork Analysis:
Finish Grade down to Existing Grade

Cut	13,875.5 cyd
Fill	-9,883.2 cyd
Net	3,992.25 cyd export

Required Fill for asphalt and concrete
Asphalt A=77,277 sf, 3" over 6" = 2,146.6 cyd
Med Asphalt =29,062 sf, 3" over 8" = 986.7 cyd
Heavy Duty Asphalt = 30,482 sf, 4" over 8" = 1,129.0 cyd
Concrete Apron = 4,191 sf, 8" over 4" = 155.2 cyd
Sidewalks = 7,083 sf, 5" over 4" = 196.8 cyd
Courtyard = 12,221 sf, 5" over 4" = 339.5 cyd
Building = 52,639 sf, 6" over 6" =1,949.6
Total Estimated Required Fill =6,903 cyd

Net total export =10,895.5 cubic yards

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Scale: 1" = 40'

40 0 10 20 40 50 60 70 80
Graphic Scale

Legend
(Note: All items may not appear on drawing)

San. Sewer Manhole
Water Manhole
Storm Drain Manhole
Electrical Manhole
Catch Basins
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Fire Hydrant
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Water Valve
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Flowline of ditch
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Concrete Pipe CP
Reinforced Concrete Pipe RCP
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Polyvinyl Chloride PVC
Top of Asphalt TA
Edge of Asphalt EA
Centerline CL
Flowline FL
Finish Floor FF
Top of Curb TC
Top of Wall TWL
Top of Walk TW
Top of Concrete TCN
Natural Ground NG
Finish Grade FG
Fire Department Connection FDC
Finish Contour — 90 —
Exist. Contour — 90 —
Finish Grade 95.33TA
Exist. Grade 95.72TA
Ridge Line — R —
Direction of Flow
Existing Asphalt
New Asphalt
Heavy Duty Asphalt
Concrete
Open Face Curb & Gutter
Demo Tree
ADA Accessible Route

General Grading Notes:
1. All work shall be in accordance with the City Public Works Standard.
2. Cut slopes shall be no steeper than 2 horizontal to 1 vertical.
3. Fill slopes shall be no steeper than 2 horizontal to 1 vertical.
4. Fills shall be compacted per the recommendations of the geotechnical report prepared for the project and shall be certified by the geotechnical engineer.
5. Areas to receive fill shall be properly prepared and approved by the City inspector and geotechnical Engineer prior to placing fill.
6. Fills shall be benched into competent material as per specifications and geotechnical report.
7. All trench backfill shall be tested and certified by the site geotechnical engineer per the grading code.
8. A geotechnical engineer shall perform periodic inspections and submit a complete report and map upon completion of the rough grading.
9. The final compaction report and certification from the geotechnical engineer shall contain the type of field testing performed. Each test shall be identified with the method of obtaining the in-place density, whether sand cone or drive ring and shall be so noted for each test. Sufficient maximum density determinations shall be performed to verify the accuracy of the maximum density curves used by the field technician.
10. Dust shall be controlled by watering.
11. The location and protection of all utilities is the responsibility of the permitee.
12. Approved protective measures and temporary drainage provisions must be used to protect adjoining properties during the grading project.
13. All public roadways must be cleared daily of all dirt, mud and debris deposited on them as a result of the grading operation. Cleaning is to be done to the satisfaction of the city engineer.
14. The site shall be cleared and grubbed of all vegetation and deleterious matter prior to grading.
15. The contractor shall provide shoring in accordance with OSHA requirements for trench walls.
16. Aggregate base shall be compacted per the geotechnical report prepared for the project.
17. Elevations shown on this plan are finish grades. Rough grades are the subgrades of the improvements shown hereon.
18. The recommendations in the following Geotechnical Engineering Report by xxxx are included in the requirements of grading and site preparation.
The report is titled "GEOTECHNICAL ENGINEERING STUDY FOR TOOELE APPLIED TECHNOLOGY COLLEGE (TATC) UTAH COLLEGE OF APPLIED TECHNOLOGY TOOELE, UT"
Job No.: AUA11-400-00 Address: 88 SOUTH TOOELE BLVD. TOOELE, UT 84074
Dated: SEPTEMBER 2011
19 As part of the construction documents, owner has provided contractor with a topographic survey performed by manual or aerial means. Such survey was prepared for project design purposes and is provided to the contractor as a courtesy. It is expressly understood that such survey may not accurately reflect existing topographic conditions.
20. Erosion Control: Protect all inlet boxes, catch basins, etc. with straw bales or other approved method to strain the strom water during construction. Protect surrounding properties and streets from site runoff with sandbags and earth berms.

Curb and Gutter Construction Notes:
1. Open face gutter shall be constructed where drainage is directed away from curb.
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New Building

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project#: 11.0420
date: 1/20/2011

revisions :

1 02/17/2012 - ADDENDUM 3

NOT FOR CONSTRUCTION

Site ADA Plan

sheet:

CS-101A

100% DFCM Review Set

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Finish Grade down to Existing Grade

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Water Manhole
Storm Drain Manhole
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Exist. Fire Hydrant
Fire Hydrant
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Water Valve
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Secondary Waterline — SW —
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Land Drain — LD —
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Power pole w/guy
Light Pole
Fence
Flowline of ditch
Overhead Power line — OHP —
Corrugated Metal Pipe CMP
Concrete Pipe CP
Reinforced Concrete Pipe RCP
Ductile Iron DI
Polyvinyl Chloride PVC
Top of Asphalt TA
Edge of Asphalt EA
Centerline CL
Flowline FL
Finish Floor FF
Top of Curb TC
Top of Wall TWL
Top of Walk TW
Top of Concrete TCN
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Finish Grade FG
Fire Department Connection FDC
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Exist. Contour — 90 —
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Ridge Line — R —
Direction of Flow
Existing Asphalt
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ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY

No. 3339572
CHRISTIAN MICHAELSON
11/01/2011
STATE OF UTAH

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project#: 11.0420
date: 1/20/2011

revisions :

1 02/17/2012 - ADDENDUM 3

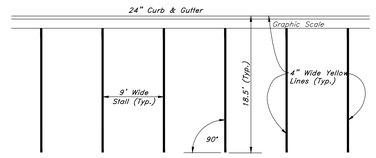
NOT FOR CONSTRUCTION

Grading Plan

sheet:

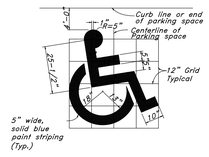
CG-101

100% DFCM Review Set



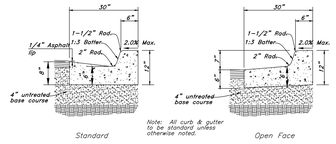
2 Typical Parking Lot Striping Plan

Not to Scale



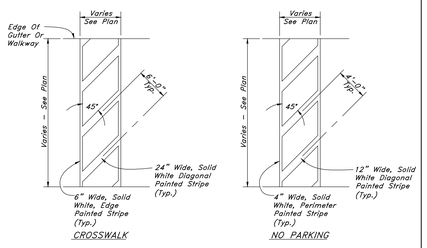
5 Handicap Symbol

Not to Scale



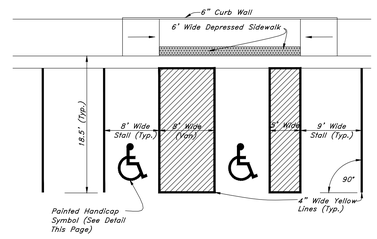
8 Typical Section - 30" Curb & Gutter

Not to Scale



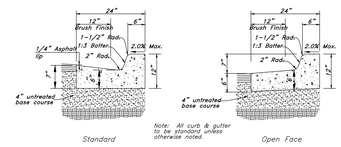
3 Striping

Not to Scale



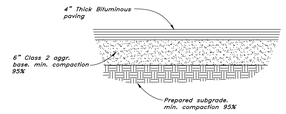
6 Typical ADA Parking Striping Plan

Not to Scale



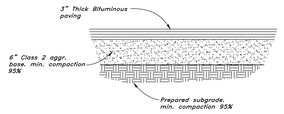
9 Typical Section - 24" Curb & Gutter

Not to Scale



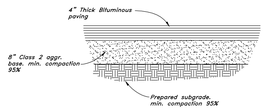
11 Typical Truck Driving School Lot Light Traffic Areas

Not to Scale



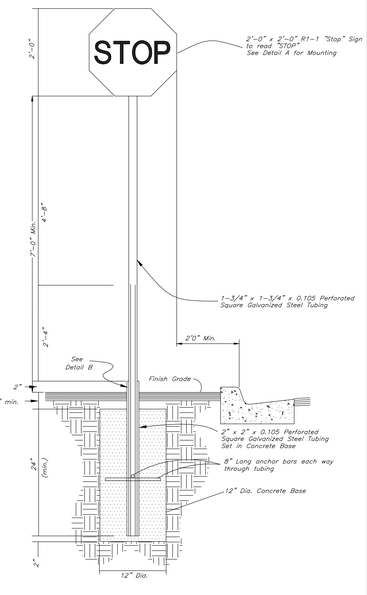
12 Typical Bituminous Pavement Section Light Traffic Areas

Not to Scale



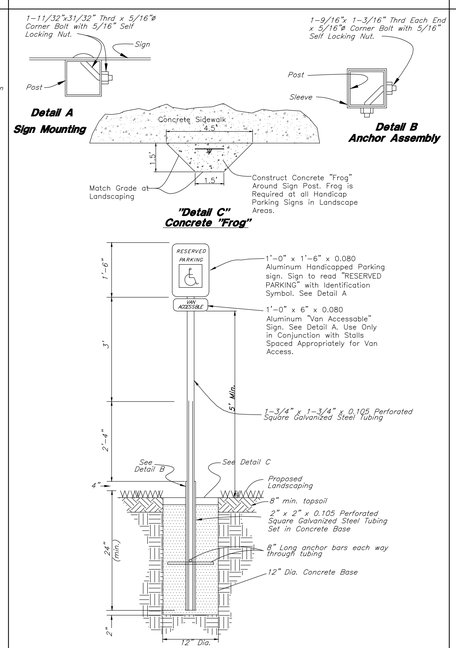
13 Typical Bituminous Pavement Section Heavy Duty Drives

Not to Scale



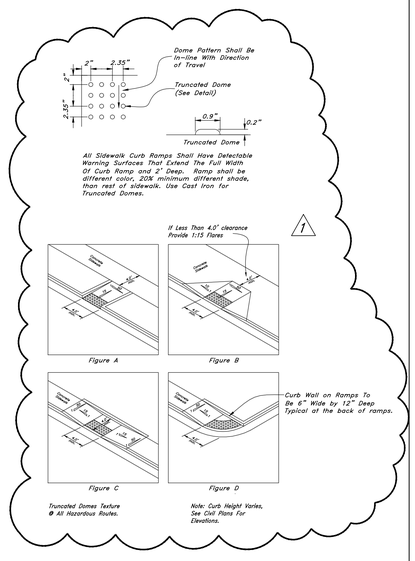
1 Stop Sign

Not to Scale



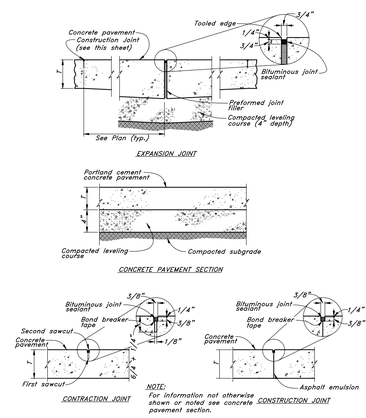
4 Handicapped Parking Sign

Not to Scale



7 Typical ADA Ramp Detail

Not to Scale

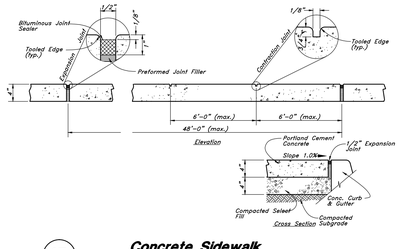


10 Portland Cement Concrete Pavement

Not to Scale

14 Thickened Edge Walk

Not to Scale



15 Concrete Sidewalk

Not to Scale

UNLESS A PROFESSIONAL SEAL WITH SIGNATURE AND DATE IS AFFIXED, THIS DOCUMENT IS PRELIMINARY AND IS NOT INTENDED FOR CONSTRUCTION, RECORDING PURPOSES OR IMPLEMENTATION.

METHOD STUDIO INC.
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project:

Tooele Applied Technology College - New Building

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.06.20
date: 1/20/2011

revisions:

1 02/17/2012 - ADDENDUM 3

NOT FOR CONSTRUCTION

Construction Details

sheet:

CD-502

100% DFCM Review Set

WARRANTY FOR SINGLE PLY ROOFING

WHERE AS,_____(manufacture name), a corporation whose address is,

_____

hereinafter called the Manufacturer, has manufactured and sold and caused to have applied, pursuant to the specifications and inspection, the necessary roofing materials to construct a PVC, TPO, EPDM or other single ply roof of approximately _____square feet and associated roof flashing of approximately _____ linear feet on the building described below:

OWNER: STATE OF UTAH

DFCM PROJECT NO: _____

BUILDING NAME :_____

LOCATION:_____

DATE OF ACCEPTANCE OF ROOFING: _____

MANUFACTURE ADDRESS:_____

MANUFACTURER'S WARRANTY NO:_____

PHONE NUMBER FOR WARRANTY SERVICE:_____

ROOFING CONTRACTOR NAME:_____

ROOFING CONTRACTOR ADDRESS:_____

AND WHEREAS, by careful examination of said roof by the Manufacturer's representative, it has been determined that roofing materials have been applied in conformance with Manufacturer's specifications.

AND WHEREAS, Manufacturer represents and wishes to warranty, subject to the limits stated herein, that its roofing when so applied is effectively watertight for a period of twenty (20) years despite normal wear and tear by the elements, as well as guaranteeing it against defects in workmanship or materials.

NOW THEREFORE, said Manufacturer warranties to the said Owner that, as set forth below, during a period of twenty (20) years from the date of acceptance of said single-ply roofing described above, Manufacturer will at its own expense, make or cause to be made, any repairs that may be necessary, as a result of defects in workmanship or materials supplied by the Manufacturer which results in leaks or of normal wear and tear by the elements which results in leaks, and will maintain said roof in water tight condition free from all leaks arising from such causes. For purposes of this warranty, damage to the roof caused by any unusual natural phenomena shall not be deemed to be "normal wear and tear by the elements".

INCLUSIONS: This Warranty does cover, and Manufacturer shall be liable for the following:

1 Roofing membrane, membrane flashings, metal flashings, mechanical fastening system, anchors, adhesives, seaming materials, slip sheets, fabrics, insulations, under payments, and accessories furnished by the Manufacturer as incorporated into the roof membrane system.

2 Vapor barriers, insulations and / or materials furnished by the Manufacturer or approved to be incorporated into the roof membrane assembly and such damage as may result from failure of these materials.

3 Repair of splits, breaks, cracks, and seam failures in membrane system.

4 Leaks from failure in material or workmanship.

EXCLUSIONS: This Warranty does not cover, and Manufacturer shall not be liable for the following:

1 Metal work, including metal counter flashings, not a part of the roof membrane system and such damage as may result from application of these materials;

2 Any damage to the roof caused by structural defect in, or failure of, the building or defects in, or failure of, any structural roof deck, or other sheathing materials, used as the base over which the roof and roof insulation is applied;

3 Roof damage from special chemical conditions not disclosed to Manufacturer;

4 Any damage to the building or contents thereof, except replacement of damaged roof insulation and vapor barrier as noted under "INCLUSION" above;

5 Damage due to unauthorized alterations to roofing system.

6 Damage to the roof due to mechanical abrasion or abuse not caused by the Manufacturer.

7 Damage or failure directly caused by the re-use of existing material. (re-roof)

8 Reasonable care and maintenance will be the responsibility of the owner.

INSPECTION AND REPAIR: During the term of this Warranty, Manufacturer, its agents or employees, shall have free access to the roof during regular business hours. Upon verbal notice by Owner to Manufacturer within four days of the discovery of any leaks in the roofing system, or need of repair of roof, the Manufacturer shall have ten (10) days to inspect the roof. Following such inspection:

1 Manufacturer, at its own expense shall make such repairs as are required by this warranty.

2 In case owner or his agent has verbally notified Manufacturer that repairs are required and such repairs are not covered by the Warranty (including repairs required by owner's alteration, extension or addition to the roof) Manufacture, after having obtained Owner's consent thereto, in writing, shall make or cause to be made, such repairs at Owner's expense in accordance with specifications and procedures as established by Manufacturer and this warranty shall thereupon remain in effect for the un-expired portion of its original term. If Owner fails to so consent or if repairs are made by one other than the Manufacturer's authorized designee, this Warranty with respect to such area shall be automatically terminated.

3 In the event the (1) Owner notifies Manufacturer and has confirmed the need of repair of roof and (2) Manufacturer is unable to promptly inspect and repair same, and (3) an emergency condition exists which requires prompt repair in order to avoid substantial damage to owner, then owner may make such temporary repairs as may be essential and any such action shall not be a breach of the provision of this Warranty. Owner will bear emergency repair expenses.

INSPECTION SERVICE: Manufacturer agrees to re-inspect the completed roof not earlier than 18 nor later than 24 months after completion of the roofing, and if it is determined that there are defects in the roofing, then Manufacturer shall make, or cause to be made at its own expense, such repairs as are necessary to remedy said defects within the scope of its responsibility under the terms of this Warranty.

IN WITNESS WHEREOF, Manufacturer has caused this instrument to be signed and sealed by its duly authorized officer this day of _____

BY: _____

TITLE: _____

CORPORATION: _____

SEAL:

Project Manager Approval _____

Division of Facilities Construction and Management

Risk I.D. _____

CONTRACTOR ROOFING WARRANTY

WHEREAS_____

Of
(Address)_____(Phone)_____

Herein called the "Roofing Contractor", has performed roofing and associated ("work") on the following project:

Owner:State of Utah

Agency:_____

Name of Building:_____DFCM Project Number_____

Address:_____

Area of Work:_____ Date of Acceptance:_____

Warranty Period: Five (5) years_____Date of Expiration:_____

AND WHEREAS Roofing Contractor has contracted (either directly with Owner or indirectly as a subcontractor) to warrant said work against leaks and faulty or defective materials and workmanship for designated Warranty Period.

NOW THEREFORE Roofing Contractor herby warrants, subject to terms and conditions herein set forth, that during Warranty Period he will at his own cost and expense, make or cause to be made such repairs to or replacements of said work as are necessary to correct faulty and defective work, and as are necessary to maintain said work in watertight condition. In addition to making the work watertight, the Roofing Contractor shall remove and/or repair blisters, ridges, flashings, splits and other irregularities which in the opinion of the Roofing Manufacture's technical representative do not conform to acceptable roofing practices and conditions. These repairs shall be made prior to expiration of the five (5) year Warranty Period and to the satisfaction of the Roofing Manufacturer's technical representative.

This Warranty is made subject to the following terms and conditions:

1. Specifically excluded from this Warranty are damages to work and other parts of the building, and to building contents, caused by: a) lightning, windstorm; b) fire; c) failure of roofing system substrate including cracking settlement, excessive deflection, deterioration, and decomposition; d) faulty construction of parapet walls, copings, chimneys, skylights, vents, and equipment supports, not part of contractors work and e) activity on roofing by others including construction contractors, maintenance personnel, other persons, and animals whether authorized or unauthorized by Owner,

   When work has been damages by any of foregoing causes, Warranty shall be null and void until such damage has been repaired by Roofing Contractor, and until cost and expense thereof has been paid by Owner or by another responsible party so designated.

2 The Roofing Contractor is responsible for damage to work covered by this Warranty, but is not liable for consequential damages to building or building contents, resulting from leaks or faults or defects of work.

3 During Warranty Period, if Owner allows alteration of work by anyone other than Roofing Contractor, including cutting, patching and maintenance in connection with penetrations, attachment of other work, and positioning of anything on roof, this Warranty shall become null and void upon date of said alterations, but only to extent said alterations affect work covered by this Warranty. If Owner engages Roofing Contractor to perform said alterations, Warranty shall not become null and void, unless Roofing Contractor, prior to proceeding with said work, shall claim that said alterations would damage or deteriorate work, thereby reasonably justifying a limitation or termination of this warranty.

4 During Warranty Period, if original use of roof is changed and it becomes used for, but was not originally specified for, a promenade, work deck, spray cooled surface, flooded basin, or other use or service more severe than originally specified, this Warranty shall become null and void upon date of said change, but only to extent said change affects work covered by this Warranty.

5 The Owner shall promptly notify Roofing Contractor of observed, known or suspected leaks, defect or deterioration, and shall afford reasonable opportunity for Roofing Contractor to inspect work, and to examine evidence of such leaks, defects or deterioration.

6 This Warranty is recognized to be the only Warranty of Roofing Contractor on said work, and is in addition to the Roofing Warranty furnished by the Roofing Manufacturer, and shall not operate to restrict or cut off Owner from other remedies and resources lawfully available to him in cases of roofing failure. Specifically, this Warranty shall no operate to relieve Roofing. Contractor of responsibility for performance of original work in accordance with requirements of the Contract Documents, regardless of whether Contract was a contract directly with Owner or a subcontract with Owners General Contractor.

IN WITNESS THEREOF, this instrument has been dully executed this _____day of_____, 20_____.

Cosigned by General Contractor by:

(General Contractor)	(Roofing Contractor)
(Business Address)	(Business Address)
(Signature)	(Signature)
(Title)	(Title)

SECTION 018113.13 - SUSTAINABLE DESIGN REQUIREMENTS - LEED FOR NEW CONSTRUCTION AND MAJOR RENOVATIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes general requirements and procedures for compliance with certain USGBC LEED prerequisites and credits needed for Project to obtain LEED Silver certification based on USGBC's "LEED 2009 for New Construction & Major Renovations."

1. Other LEED prerequisites and credits needed to obtain LEED certification depend on product selections and may not be specifically identified as LEED requirements. Compliance with requirements needed to obtain LEED prerequisites and credits may be used as one criterion to evaluate substitution requests and comparable product requests.
2. Additional LEED prerequisites and credits needed to obtain the indicated LEED certification depend on Architect's design and other aspects of Project that are not part of the Work of the Contract.
3. A copy of the LEED Project checklist is attached at the end of this Section for information only.
4. Specific requirements for LEED are included in greater detail in other Sections.

1.3 DEFINITIONS

A. Chain-of-Custody Certificates: Certificates signed by manufacturers certifying that wood used to make products was obtained from forests certified by an FSC-accredited certification body to comply with FSC STD-01-001, "FSC Principles and Criteria for Forest Stewardship." Certificates shall include evidence that manufacturer is certified for chain of custody by an FSC-accredited certification body.

B. Regional Materials: Materials that have been extracted, harvested, or recovered, as well as manufactured, within 500 miles of Project site. If only a fraction of a product or material is extracted/harvested/recovered and manufactured locally, then only that percentage (by weight) shall contribute to the regional value.

C. Recycled Content: The recycled content value of a material assembly shall be determined by weight. The recycled fraction of the assembly is then multiplied by the cost of assembly to determine the recycled content value.

1. "Post-consumer" material is defined as waste material generated by households or by commercial, industrial, and institutional facilities in their role as end users of the product, which can no longer be used for its intended purpose.
2. "Pre-consumer" material is defined as material diverted from the waste stream during the manufacturing process. Excluded is reutilization of materials such as rework, regrind, or scrap generated in a process and capable of being reclaimed within the same process that generated it.

1.4 ADMINISTRATIVE REQUIREMENTS

A. Respond to questions and requests from Architect and the USGBC regarding LEED credits that are the responsibility of the Contractor, that depend on product selection or product qualities, or that depend on Contractor's procedures until the USGBC has made its determination on the project's LEED certification application. Document responses as informational submittals.

1.5 ACTION SUBMITTALS

A. General: Submit additional LEED submittals required by other Specification Sections.

B. LEED submittals are in addition to other submittals. If submitted item is identical to that submitted to comply with other requirements, submit duplicate copies as a separate submittal to verify compliance with indicated LEED requirements.

C. LEED Documentation Submittals:
1. Credit MR 2: Comply with Section 017419 "Construction Waste Management and Disposal."
2. Credit MR 3: Receipts for salvaged and refurbished materials used for Project, indicating sources and costs for salvaged and refurbished materials.
3. Credit MR 4: Product data and certification letter indicating percentages by weight of post-consumer and pre-consumer recycled content for products having recycled content. Include statement indicating cost for each product having recycled content.
4. Credit MR 5: Product data for regional materials indicating location and distance from Project of material manufacturer and point of extraction, harvest, or recovery for each raw material. Include statement indicating cost for each regional material and the fraction by weight that is considered regional.
5. Credit MR 7: Product data and chain-of-custody certificates for products containing certified wood. Include statement indicating cost for each certified wood product.
6. Credit EQ 3.1:

    a. Construction indoor-air-quality management plan.
    b. Product data for temporary filtration media.
    c. Product data for filtration media used during occupancy.
    d. Construction Documentation: Six photographs at three different times during the construction period, along with a brief description of the SMACNA approach employed, documenting implementation of the

indoor-air-quality management measures, such as protection of ducts and on-site stored or installed absorptive materials.

7. Credit IEQ 3.2:

   a. Signed statement describing the building air flush-out procedures including the dates when flush-out was begun and completed and statement that filtration media was replaced after flush-out.
   b. Product data for filtration media used during flush-out and during occupancy.
   c. Report from testing and inspecting agency indicating results of indoor-air-quality testing and documentation showing compliance with indoor-air-quality testing procedures and requirements.

8. Credit IEQ 4.1: Product data for adhesives and sealants used inside the weatherproofing system indicating VOC content of each product used.
9. Credit IEQ 4.2: Product data for paints and coatings used inside the weatherproofing system indicating VOC content of each product used.
10. Credit IEQ 4.4: Product data for products containing composite wood or agrifiber products or wood glues indicating that they do not contain urea-formaldehyde resin.

1.6 INFORMATIONAL SUBMITTALS

A. Qualification Data: For LEED coordinator.

B. Project Materials Cost Data: Provide statement indicating total cost for materials used for Project. Costs exclude labor, overhead, and profit. Include breakout of costs for the following categories of items:

   1. Furniture.
   2. Plumbing.
   3. Mechanical.
   4. Electrical.
   5. Specialty items such as elevators and equipment.
   6. Wood-based construction materials.

C. LEED Action Plans: Provide preliminary submittals within 14 days of date established for the Notice to Proceed indicating how the following requirements will be met:

   1. Credit MR 2: Waste management plan complying with Section 017419 "Construction Waste Management and Disposal."
   2. Credit MR 4: List of proposed materials with recycled content. Indicate cost, post-consumer recycled content, and pre-consumer recycled content for each product having recycled content.
   3. Credit MR 5: List of proposed regional materials. Identify each regional material, including its source, cost, and the fraction by weight that is considered regional.

4. Credit MR 7: List of proposed certified wood products. Indicate each product containing certified wood, including its source and cost of certified wood products.
5. Credit IEQ 3.1: Construction indoor-air-quality management plan.

D. LEED Progress Reports: Concurrent with each Application for Payment, submit reports comparing actual construction and purchasing activities with LEED action plans for the following:

1. Credit MR 2: Waste reduction progress reports complying with Section 017419 "Construction Waste Management and Disposal."
2. Credit MR 4: Recycled content.
3. Credit MR 5: Regional materials.
4. Credit MR 7: Certified wood products.

1.7 QUALITY ASSURANCE

A. LEED Coordinator: Engage an experienced LEED-Accredited Professional to coordinate LEED requirements. LEED coordinator may also serve as waste management coordinator.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

A. Provide products and procedures necessary to obtain LEED credits required in this Section. Although other Sections may specify some requirements that contribute to LEED credits, the Contractor shall determine additional materials and procedures necessary to obtain LEED credits indicated.

2.2 RECYCLED CONTENT OF MATERIALS

A. Credit MR 4: Building materials shall have recycled content such that post-consumer recycled content plus one-half of pre-consumer recycled content for Project constitutes a minimum of 20 percent of cost of materials used for Project.

1. Cost of post-consumer recycled content plus one-half of pre-consumer recycled content of an item shall be determined by dividing weight of post-consumer recycled content plus one-half of pre-consumer recycled content in the item by total weight of the item and multiplying by cost of the item.
2. Do not include [furniture,]plumbing, mechanical and electrical components, and specialty items such as elevators and equipment in the calculation.

2.3 REGIONAL MATERIALS

A. Credit MR 5: Not less than 20 percent of building materials (by cost) shall be regional materials.

2.4 CERTIFIED WOOD

A. Credit MR 7: Not less than 50 percent (by cost) of wood-based materials shall be produced from wood obtained from forests certified by an FSC-accredited certification body to comply with FSC STD-01-001, "FSC Principles and Criteria for Forest Stewardship."

1. Wood-based materials include, but are not limited to, the following materials when made from wood, engineered wood products, or wood-based panel products:

    a. Rough carpentry.
    b. Miscellaneous carpentry.
    c. Heavy timber construction.
    d. Wood decking.
    e. Metal-plate-connected wood trusses.
    f. Structural glued-laminated timber.
    g. Finish carpentry.
    h. Architectural woodwork.
    i. Wood paneling.
    j. Wood veneer wall covering.
    k. Wood flooring.
    l. Wood lockers.
    m. Wood cabinets.
    n. Furniture.

2.5 LOW-EMITTING MATERIALS

A. Credit IEQ 4.1: For field applications that are inside the weatherproofing system, adhesives and sealants shall comply with the following VOC content limits when calculated according to 40 CFR 59, Subpart D (EPA Method 24):

1. Wood Glues: 30 g/L.
2. Metal-to-Metal Adhesives: 30 g/L.
3. Adhesives for Porous Materials (Except Wood): 50 g/L.
4. Subfloor Adhesives: 50 g/L.
5. Plastic Foam Adhesives: 50 g/L.
6. Carpet Adhesives: 50 g/L.
7. Carpet Pad Adhesives: 50 g/L.
8. VCT and Asphalt Tile Adhesives: 50 g/L.
9. Cove Base Adhesives: 50 g/L.
10. Gypsum Board and Panel Adhesives: 50 g/L.
11. Rubber Floor Adhesives: 60 g/L.

12. Ceramic Tile Adhesives: 65 g/L.
13. Multipurpose Construction Adhesives: 70 g/L.
14. Fiberglass Adhesives: 80 g/L.
15. Contact Adhesive: 80 g/L.
16. Structural Glazing Adhesives: 100 g/L.
17. Wood Flooring Adhesive: 100 g/L.
18. Structural Wood Member Adhesive: 140 g/L.
19. Single-Ply Roof Membrane Adhesive: 250 g/L.
20. Special-Purpose Contact Adhesive (contact adhesive that is used to bond melamine-covered board, metal, unsupported vinyl, rubber, or wood veneer 1/16 inch or less in thickness to any surface): 250 g/L.
21. Top and Trim Adhesive: 250 g/L.
22. Plastic Cement Welding Compounds: 250 g/L.
23. ABS Welding Compounds: 325 g/L.
24. CPVC Welding Compounds: 490 g/L.
25. PVC Welding Compounds: 510 g/L.
26. Adhesive Primer for Plastic: 550 g/L.
27. Sheet-Applied Rubber Lining Adhesive: 850 g/L.
28. Aerosol Adhesive, General-Purpose Mist Spray: 65 percent by weight.
29. Aerosol Adhesive, General-Purpose Web Spray: 55 percent by weight.
30. Special-Purpose Aerosol Adhesive (All Types): 70 percent by weight.
31. Other Adhesives: 250 g/L.
32. Architectural Sealants: 250 g/L.
33. Nonmembrane Roof Sealants: 300 g/L.
34. Single-Ply Roof Membrane Sealants: 450 g/L.
35. Other Sealants: 420 g/L.
36. Sealant Primers for Nonporous Substrates: 250 g/L.
37. Sealant Primers for Porous Substrates: 775 g/L.
38. Modified Bituminous Sealant Primers: 500 g/L.
39. Other Sealant Primers: 750 g/L.

B. Credit IEQ 4.2: For field applications that are inside the weatherproofing system, paints and coatings shall comply with the following VOC content limits when calculated according to 40 CFR 59, Subpart D (EPA Method 24):

1. Flat Paints and Coatings: VOC not more than 50 g/L.
2. Nonflat Paints and Coatings: VOC not more than 150 g/L.
3. Dry-Fog Coatings: VOC not more than 400 g/L.
4. Primers, Sealers, and Undercoaters: VOC not more than 200 g/L.
5. Anticorrosive and Antirust Paints Applied to Ferrous Metals: VOC not more than 250 g/L.
6. Zinc-Rich Industrial Maintenance Primers: VOC not more than 340 g/L.
7. Pretreatment Wash Primers: VOC not more than 420 g/L.
8. Clear Wood Finishes, Varnishes: VOC not more than 350 g/L.
9. Clear Wood Finishes, Lacquers: VOC not more than 550 g/L.
10. Floor Coatings: VOC not more than 100 g/L.

C. Credit IEQ 4.4: Composite wood, agrifiber products, and adhesives shall not contain urea-formaldehyde resin.

PART 3 - EXECUTION

3.1 CONSTRUCTION WASTE MANAGEMENT

A. Credit MR 2: Comply with Section 017419 "Construction Waste Management and Disposal."

3.2 CONSTRUCTION INDOOR-AIR-QUALITY MANAGEMENT

A. Credit IEQ 3.1: Comply with SMACNA's "SMACNA IAQ Guideline for Occupied Buildings under Construction."

1. If Owner authorizes use of permanent heating, cooling, and ventilating systems during construction period as specified in Section 015000 "Temporary Facilities and Controls," install filter media having a MERV 8 according to ASHRAE 52.2 at each return-air inlet for the air-handling system used during construction.
2. Replace all air filters immediately prior to occupancy.

B. Credit IEQ 3.2:[Comply with one of the following requirements:]

1. After construction ends, prior to occupancy and with all interior finishes installed, perform a building flush-out by supplying a total volume of 14000 cu. ft. of outdoor air per sq. ft. of floor area while maintaining an internal temperature of at least 60 deg F and a relative humidity no higher than 60 percent.

2. If occupancy is desired prior to flush-out completion, the space may be occupied following delivery of a minimum of 3500 cu. ft. of outdoor air per sq. ft. of floor area to the space. Once a space is occupied, it shall be ventilated at a minimum rate of 0.30 cfm per sq. ft. of outside air or the design minimum outside air rate determined in Prerequisite EQ 1, whichever is greater. During each day of the flush-out period, ventilation shall begin a minimum of three hours prior to occupancy and continue during occupancy. These conditions shall be maintained until a total of 14000 cu. ft./sq. ft. of outside air has been delivered to the space.

3. Air-Quality Testing:

a. Conduct baseline indoor-air-quality testing, after construction ends and prior to occupancy, using testing protocols consistent with the EPA's "Compendium of Methods for the Determination of Air Pollutants in Indoor Air," and as additionally detailed in the USGBC's "Green Building Design and Construction Reference Guide."
b. Demonstrate that the contaminant maximum concentrations listed below are not exceeded:

1) Formaldehyde: 27 ppb.
2) Particulates (PM10): 50 micrograms/cu. m.

3) Total Volatile Organic Compounds (TVOC): 500 micrograms/cu. m.
4) 4-Phenylcyclohexene (4-PH): 6.5 micrograms/cu. m.
5) Carbon Monoxide: 9 ppm and no greater than 2 ppm above outdoor levels.

c. For each sampling point where the maximum concentration limits are exceeded, conduct additional flush-out with outside air and retest the specific parameter(s) exceeded to indicate the requirements are achieved. Repeat procedure until all requirements have been met. When retesting noncomplying building areas, take samples from same locations as in the first test.

d. Air-sample testing shall be conducted as follows:

1) All measurements shall be conducted prior to occupancy but during normal occupied hours, and with building ventilation system starting at the normal daily start time and operated at the minimum outside air flow rate for the occupied mode throughout the duration of the air testing.
2) Building shall have all interior finishes installed including, but not limited to, millwork, doors, paint, carpet, and acoustic tiles. Nonfixed furnishings such as workstations and partitions are encouraged, but not required, to be in place for the testing.
3) Number of sampling locations varies depending on the size of building and number of ventilation systems. For each portion of building served by a separate ventilation system, the number of sampling points shall not be less than one per 25,000 sq. ft. or for each contiguous floor area, whichever is larger, and shall include areas with the least ventilation and greatest presumed source strength.
4) Air samples shall be collected between 3 and 6 feet from the floor to represent the breathing zone of occupants, and over a minimum four-hour period.

END OF SECTION 018113.13

SECTION 088000 - GLAZING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes glazing for the following products and applications, including those specified in other Sections where glazing requirements are specified by reference to this Section:

1.1

1. High Performance Architectural glass.
2. High Performance Architectural Insulating Glass.
3. High Performance Architectural Spandrel Glass.
4. Float Glass
5. Tempered Glass

B. Related Sections:

1. Division 8 Section “Storefronts and entrances.”
2. Division 8 Section “Wood Doors.”
3. Division 8 Section “Hollow Metal Doors and Frames.”
4. Division 8 Section “ Glazed Aluminum Curtain Walls.”

1.2 PERFORMANCE REQUIREMENTS

A. Delegated Design: Design glass, including comprehensive engineering analysis according to ASTM E 1300 ICC's 2006 International Building Code by a qualified professional engineer, using the following design criteria:

1. Design Wind Pressures: As indicated on Drawings.
2. Vertical Glazing: For glass surfaces sloped 15 degrees or less from vertical, design glass to resist design wind pressure based on glass type factors for short-duration load.
3. Differential Shading: Design glass to resist thermal stresses induced by differential shading within individual glass lites.

1.3 PRECONSTRUCTION TESTING

A. Preconstruction Adhesion and Compatibility Testing: Test each glazing material type, tape sealant, gasket, glazing accessory, and glass-framing member for adhesion to and compatibility with elastomeric glazing sealants.

1. Testing will not be required if data are submitted based on previous testing of current sealant products and glazing materials matching those submitted.

1.4 ACTION SUBMITTALS

A. Product Data: For each glass product and glazing material indicated. Spandrel Glass, Insulated Glass, Tinted Float Glass.

B. LEED Submittals:

1. Product Data for Credit IEQ 4.1: For glazing sealants used inside the weatherproofing system, documentation including printed statement of VOC content.
2. Laboratory Test Reports for Credit IEQ 4: For glazing sealants used inside the weatherproofing system, documentation indicating that they comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers." Provide documentation to Architect.

C. Glass Samples: For each type of glass product other than clear monolithic vision glass; 12 inches square.

D. Glazing Schedule: List glass types and thicknesses for each size opening and location. Use same designations indicated on Drawings.

E. Energy Performance Certificates: For glazed aluminum curtain walls, acccessories, and components, from manufacture. Basis for Certification: NFRC-certified energy performance values for each glazed aluminum curtain wall.

~~F.~~ Delegated-Design Submittal: For glass indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.5 QUALITY ASSURANCE

A. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below, unless more stringent requirements are indicated. Refer to these publications for glazing terms not otherwise defined in this Section or in referenced standards.

1. GANA Publications: GANA's "Laminated Glazing Reference Manual" and GANA's "Glazing Manual."
2. IGMA Publication for Insulating Glass: SIGMA TM-3000, "North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial and Residential Use."

B. Safety Glazing Labeling: Where safety glazing labeling is indicated, permanently mark glazing with certification label of the SGCC or another certification agency acceptable to authorities having jurisdiction the manufacturer. Label shall indicate manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies.

C. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of IGCC.

1.6 WARRANTY

A. Manufacturer's Special Warranty for Coated-Glass Products: Manufacturer's standard form in which coated-glass manufacturer agrees to replace coated-glass units that deteriorate within specified warranty period. Deterioration of coated glass is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning coated glass contrary to manufacturer's written instructions. Defects include peeling, cracking, and other indications of deterioration in coating.

1. Warranty Period **10** years from date of Substantial Completion.

B. Manufacturer's Special Warranty on Insulating Glass: Manufacturer's standard form in which insulating-glass manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use that is not attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.

1. Warranty Period: **10** years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 GLASS PRODUCTS, GENERAL

A. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass lites in thicknesses as needed to comply with requirements indicated.

B. Strength: Where float glass is indicated, provide annealed float glass, Kind HS heat-treated float glass, or Kind FT heat-treated float glass as needed to comply with "Performance Requirements" Where heat-strengthened glass is indicated, provide Kind HS heat-treated float glass or Kind FT heat-treated float glass as needed to comply with "Performance Requirements" Where fully tempered glass is indicated, provide Kind FT heat-treated float glass.

C. Windborne-Debris-Impact Resistance: Provide exterior glazing that passes basic - protection testing requirements in ASTM E 1996 for Wind Zone 3 when tested according to ASTM E 1886. Test specimens shall be no smaller in width and length than glazing indicated for use on the Project and shall be installed in same manner as glazing indicated for use on the Project.

1. Large-Missile Test: For glazing located within 30 feet of grade.
2. Small-Missile Test: For glazing located more than 30 feet above grade.

D. Thermal and Optical Performance Properties: Provide glass with performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated below:

1. U-Factors: Center-of-glazing values, according to NFRC 100 and based on LBL's WINDOW 5.2 computer program, expressed as Btu/sq. ft. x h x deg F.
2. Solar Heat-Gain Coefficient and Visible Transmittance: Center-of-glazing values, according to NFRC 200 and based on LBL's WINDOW 5.2 computer program.
3. Visible Reflectance: Center-of-glazing values, according to NFRC 300.

2.2 GLASS PRODUCTS

A. Float Glass: ASTM C 1036, Type I, Quality-Q3, Class I (clear) unless otherwise indicated.

B. Ultraclear Float Glass: ASTM C 1036, Type I, Quality-Q3, Class I, complying with other requirements specified and with visible light transmission not less than 91 percent.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:

a. AFG Industries, Inc.; Krystal Klear.
b. Guardian Industries Corp.; Ultrawhite.
c. Pilkington North America; Optiwhite.
d. PPG Industries, Inc.; Starphire.

C. Heat-Treated Float Glass: ASTM C 1048; Type I; Quality-Q3; Class I (clear) unless otherwise indicated; of kind and condition indicated.

D. Pyrolytic-Coated, Self-Cleaning, Low-Maintenance Glass: Clear float glass with a coating on first surface having both photocatalytic and hydrophilic properties that act to loosen dirt and to cause water to sheet evenly over the glass instead of beading.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:

a. AFG Industries, Inc.; Spotless Ti.
b. Cardinal Glass Industries; LoE2 Plus.
c. Pilkington North America; Activ.
d. PPG Industries, Inc.; Solarban 60, and Solargray 60 (3) Clear

2. Sealing System: Dual seal.
3. Spacer: Manufacturer's standard spacer material and construction

2.3 GLAZING GASKETS

A. Dense Compression Gaskets: Molded or extruded gaskets of profile and hardness required to maintain watertight seal, made from the following:

1. Neoprene complying with ASTM C 864.
2. EPDM complying with ASTM C 864.
3. Silicone complying with ASTM C 1115.
4. Thermoplastic polyolefin rubber complying with ASTM C 1115.

B. Soft Compression Gaskets: Extruded or molded, closed-cell, integral-skinned neoprene gaskets complying with ASTM C 509, Type II, black; of profile and hardness required to maintain watertight seal.

1. Application: Use where soft compression gaskets will be compressed by inserting dense compression gaskets on opposite side of glazing or pressure applied by means of pressure-glazing stops on opposite side of glazing.

2.4 GLAZING SEALANTS

A. General:

1. Compatibility: Provide glazing sealants that are compatible with one another and with other materials they will contact, including glass products, seals of insulating-glass units, and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.
2. Suitability: Comply with sealant and glass manufacturers' written instructions for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation.
3. Sealants used inside the weatherproofing system, shall have a VOC content of not more than 250 g/L when calculated according to 40 CFR 59, Subpart D (EPA Method 24). Provide proper documentation to architect.
4. Sealants used inside the weatherproofing system shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
5. Colors of Exposed Glazing Sealants: As selected by Architect from manufacturer's full range.

B. Glazing Sealant: Neutral-curing silicone glazing sealant complying with ASTM C 920, Type S, Grade NS, Class 100/50, Use NT.

C. Glazing Sealant: Neutral-curing silicone glazing sealant complying with ASTM C 920, Type S, Grade NS, Class 50, Use NT.

D. Glazing Sealant: Neutral-curing silicone glazing sealant complying with ASTM C 920, Type S, Grade NS, Class 25, Use NT.

E. Glazing Sealant: Acid-curing silicone glazing sealant complying with ASTM C 920, Type S, Grade NS, Class 25, Use NT.

F. Glazing Sealants for Fire-Rated Glazing Products: Products that are approved by testing agencies that listed and labeled fire-resistant glazing products with which they are used for applications and fire-protection ratings indicated.

2.5 GLAZING TAPES

A. Back-Bedding Mastic Glazing Tapes: Preformed, butyl-based, 100 percent solids elastomeric tape; nonstaining and nonmigrating in contact with nonporous surfaces; with or without spacer rod as recommended in writing by tape and glass manufacturers for application indicated; and complying with ASTM C 1281 and AAMA 800 for products indicated below:

1. AAMA 804.3 tape, where indicated.
2. AAMA 806.3 tape, for glazing applications in which tape is subject to continuous pressure.
3. AAMA 807.3 tape, for glazing applications in which tape is not subject to continuous pressure.

B. Expanded Cellular Glazing Tapes: Closed-cell, PVC foam tapes; factory coated with adhesive on both surfaces; and complying with AAMA 800 for the following types:

1. AAMA 810.1, Type 1, for glazing applications in which tape acts as the primary sealant.
2. AAMA 810.1, Type 2, for glazing applications in which tape is used in combination with a full bead of liquid sealant.

2.6 MISCELLANEOUS GLAZING MATERIALS

A. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.

B. Setting Blocks: Elastomeric material with a Shore, Type A durometer hardness of 85, plus or minus 5.

C. Spacers: Elastomeric blocks or continuous extrusions of hardness required by glass manufacturer to maintain glass lites in place for installation indicated.

D. Edge Blocks: Elastomeric material of hardness needed to limit glass lateral movement (side walking).

E. Cylindrical Glazing Sealant Backing: ASTM C 1330, Type O (open-cell material), of size and density to control glazing sealant depth and otherwise produce optimum glazing sealant performance.

2.7 MONOLITHIC-GLASS TYPES

A. Glass Type: Clear float glass, heat-strengthened float glass, fully tempered float glass.

1. Thickness: 6.0 mm .
2. Provide safety glazing labeling.

B. Glass Type: Pyrolytic-coated, self-cleaning, low-maintenance, clear float glass, heat-strengthened float glass, fully tempered float glass.

1. Thickness: 6.0 mm.
2. Provide safety glazing labeling.
3. Coating Location: Second surface.
4. Factory apply manufacturer's standard opacifier to coated second surface of lites, with resulting products complying with Specification No. 89-1-6 in GANA's Tempering Division's "Engineering Standards Manual":

2.8 INSULATING-GLASS TYPES

A. Glass Type (1) (Ultraclear Low E insulating Glass). Insulated glass units consisting of two lites of clear glass, separated by a 1/2 inch sealed air space. Basis of Design Product: (Solarban 60 (2) Starphire +Starphire by PPG Industries, Inc) Subject to compliance with requirements provided below.

1. Product: “Solarban” 60 (2) Starphire + Starphire by PPG Industries, Inc**.**
2. Insulating Unit Construction: 1/4 inch (6mm) Starphire Glass, Solarban 60 Solar Control Sputtered on second surface (2), + 1/2 inch (13 mm) air space + 1/4 inch (6mm) Starphire Float Glass.
3. PerformanceValues: Visible Light Transmission – 74 percent; SHGC – 0.40; Shading Coefficient – 0.46; Outdoor Visible Light Relectance – 11 percent.
4. Heat Transfer Coefficient: U-Value Winter – 0.29, U-Value Summer – 0.27.

B. Glass Type (2) (Ultraclear Low E Tinted insulating Glass, cool gray color). Insulated glass units consisting of two lites of clear glass, separated by a 1/2 inch sealed air space. Basis of Design Product: (Solargray + Solarban 60 (3) Clear by PPG Industries, Inc). Subject to compliance with requirements provided below.

1. Product: Solargray + Solarban 60 (3) Clear by PPG Industries, Inc**.**
2. Insulating Unit Construction: 1/4 inch (6mm) Solargray Glass, Solarban 60 Solar Control Sputtered on second surface (2), +1/2inch (13mm) air space + 1/4 inch (6mm) Clear Float Glass..
3. PerformanceValues: Visible Light Transmission –35 percent; SHGC – 0.28; Shading Coefficient – 0.32; Outdoor Visible Light Reflectance – 7 percent.
4. Heat Transfer Coefficient: U-Value Winter – 0.29, U-Value Summer – 0.27.

C. Glass Type (3) (Ultraclear Low E Tempered insulating Glass). Tempered Insulated glass units consisting of two Tempered lites of clear glass, separated by a 1/2 inch sealed air space. Basis of Design Product: (Solarban 60 (2) Starphire +Starphire by PPG Industries, Inc.) Subject to compliance with requirements provided below.

1. Product: “Solarban” 60 (2) Starphire + Starphire by PPG Industries, Inc**.**

2. Insulating Unit Construction: 1/4 inch (6mm) Tempered Starphire Glass, Solarban 60 + 1/2 inch (13 mm) air space + 1/4 inch (6mm) Tempered Starphire Float Glass.
3. PerformanceValues: Visible Light Transmission – 74 percent; SHGC – 0.40; Shading Coefficient – 0.46; Outdoor Visible Light Reflectance – 11 percent.
4. Heat Transfer Coefficient: U-Value Winter – 0.29, U-Value Summer – 0.27.
5. Provide safety glazing labeling.

D. Glass Type (4) (3 Lite Clear Tempered Insulating Glass Unit). Insulated glass units consisting of three Tenmpered lites of clear glass, separated by a 1/2inch sealed air space. Basis of Design Product: Solarban 60 (2) Starphire +Starphire by PPG Industries, Inc) Subject to compliance with requirements provided below.

1. Product: Starphire Clear + Starphire Clear + Starphire Clear by PPG Industries, Inc.**.**
2. Insulating Unit Construction: 1/4 inch (6mm) Tempered clear glass + 1/2 inch (13 mm) air space + 1/4 inch (6mm) Tempered Clear Glass + 1/2inch (13 mm) air space + 1/4inch (6mm) Tempered Clear Glass.
3. PerformanceValues: Visible Light Transmission – 74 percent; SHGC – 0.40; Shading Coefficient – 0.46; Outdoor Visible Light Reflectance – 11 percent.
4. Heat Transfer Coefficient: U-Value Winter – 0.29, U-Value Summer – 0.27.
5. Provide safety glazing labeling.

~~E.~~ Glass Type (5) Ceramic Coated Insulated Spandrel Glass. **Contractor will need to coordinate cut outs in the spandrel glass units, and take in to account any accessories necessary to seal cut outs properly. See cut out locations in the window elevations sheets.** Basis of design is the Solarban 60 (2) by PPG Industries, Inc

1. Overall Unit Thickness: [1 inch.
2. Thickness of Each Glass Lite: 6.0 mm.
3. Outdoor Lite: Ultraclear fully tempered float glass.
4. Interspace Content: Argon.
5. Low-E Coating: Pyrolytic or sputtered on second or third surface.
6. Winter Nighttime U-Factor: .29 maximum.
7. Summer Daytime U-Factor: .27 maximum.

PART 3 - EXECUTION

3.1 GLAZING, GENERAL

A. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.

B. Adjust glazing channel dimensions as required by Project conditions during installation to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances.

C. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass is glass with edge damage or other imperfections that, when installed, could weaken glass and impair performance and appearance.

D. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction testing.

E. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.

F. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.

G. Provide spacers for glass lites where length plus width is larger than 50 inches.

H. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and according to requirements in referenced glazing publications.

3.2 TAPE GLAZING

A. Position tapes on fixed stops so that, when compressed by glass, their exposed edges are flush with or protrude slightly above sightline of stops.

B. Install tapes continuously, but not necessarily in one continuous length. Do not stretch tapes to make them fit opening.

C. Cover vertical framing joints by applying tapes to heads and sills first and then to jambs. Cover horizontal framing joints by applying tapes to jambs and then to heads and sills.

D. Place joints in tapes at corners of opening with adjoining lengths butted together, not lapped. Seal joints in tapes with compatible sealant approved by tape manufacturer.

E. Apply heel bead of elastomeric sealant.

F. Center glass lites in openings on setting blocks and press firmly against tape by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings.

G. Apply cap bead of elastomeric sealant over exposed edge of tape.

3.3 GASKET GLAZING (DRY)

A. Cut compression gaskets to lengths recommended by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.

B. Insert soft compression gasket between glass and frame or fixed stop so it is securely in place with joints miter cut and bonded together at corners.

C. Installation with Drive-in Wedge Gaskets: Center glass lites in openings on setting blocks and press firmly against soft compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.

D. Installation with Pressure-Glazing Stops: Center glass lites in openings on setting blocks and press firmly against soft compression gasket. Install dense compression gaskets and pressure-glazing stops, applying pressure uniformly to compression gaskets. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.

E. Install gaskets so they protrude past face of glazing stops.

3.4 SEALANT GLAZING (WET)

A. Install continuous spacers, or spacers combined with cylindrical sealant backing, between glass lites and glazing stops to maintain glass face clearances and to prevent sealant from extruding into glass channel and blocking weep systems until sealants cure. Secure spacers or spacers and backings in place and in position to control depth of installed sealant relative to edge clearance for optimum sealant performance.

B. Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.

C. Tool exposed surfaces of sealants to provide a substantial wash away from glass.

3.5 CLEANING AND PROTECTION

A. Protect exterior glass from damage immediately after installation by attaching crossed streamers to framing held away from glass. Do not apply markers to glass surface. Remove nonpermanent labels and clean surfaces.

B. Protect glass from contact with contaminating substances resulting from construction operations. If, despite such protection, contaminating substances do come into contact with glass, remove substances immediately as recommended in writing by glass manufacturer.

C. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for buildup of dirt, scum, alkaline deposits, or stains; remove as recommended in writing by glass manufacturer.

D. Remove and replace glass that is broken, chipped, cracked, or abraded or that is damaged from natural causes, accidents, and vandalism, during construction period.

END OF SECTION 088000

Project Manual and Specifications for:

Tooele Applied Technology College
New Building

88 South Tooele Blvd., Tooele, Utah 84074

100% Construction Documents
January 20, 2012

DFCM Project #: 11064280
Method Studio Project #: 11.0420

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

Prepared by:

METHOD STUDIO INC.
925 SOUTH WEST TEMPLE
SALT LAKE CITY, UTAH 84101

VOLUME 1

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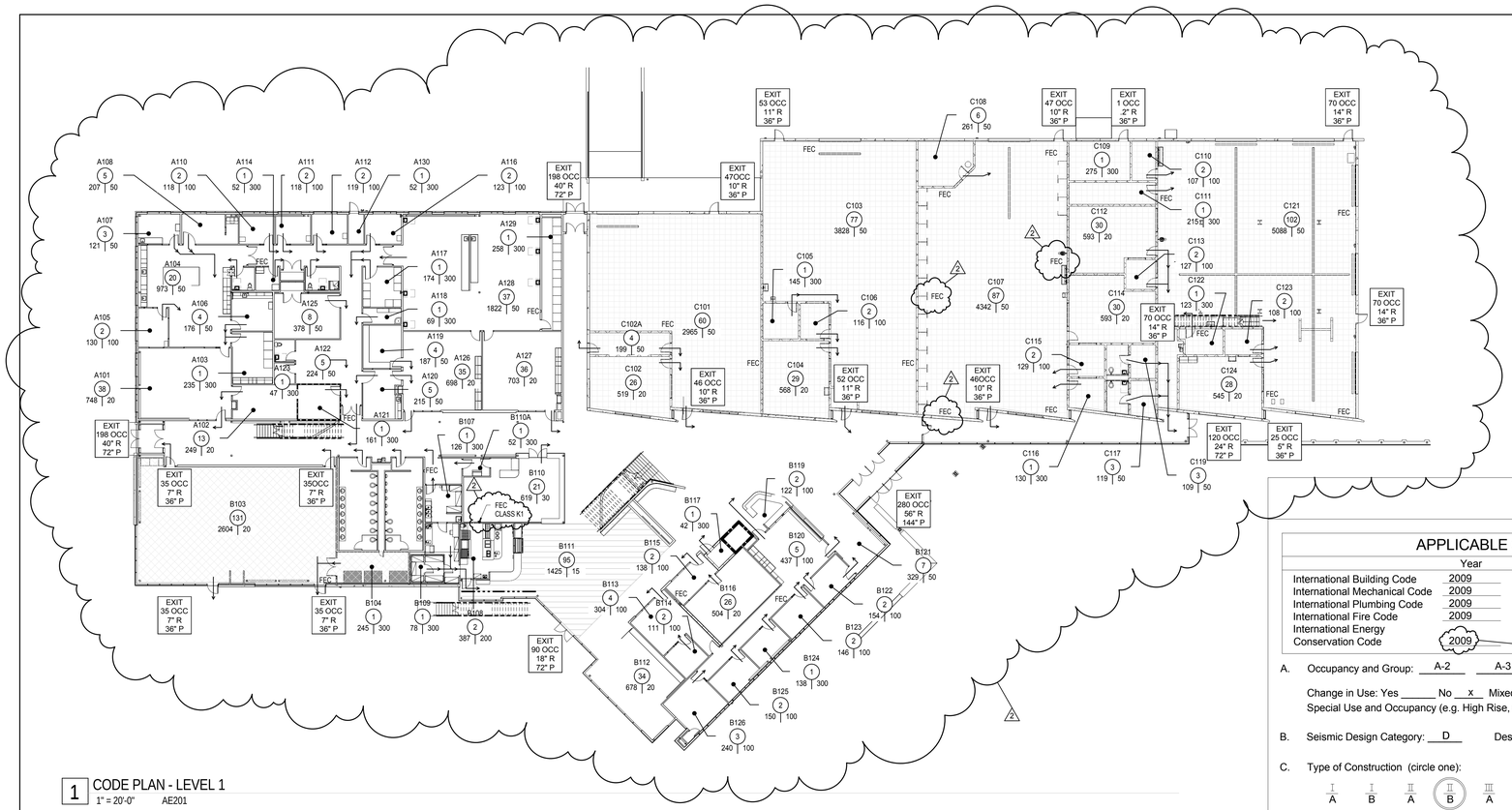
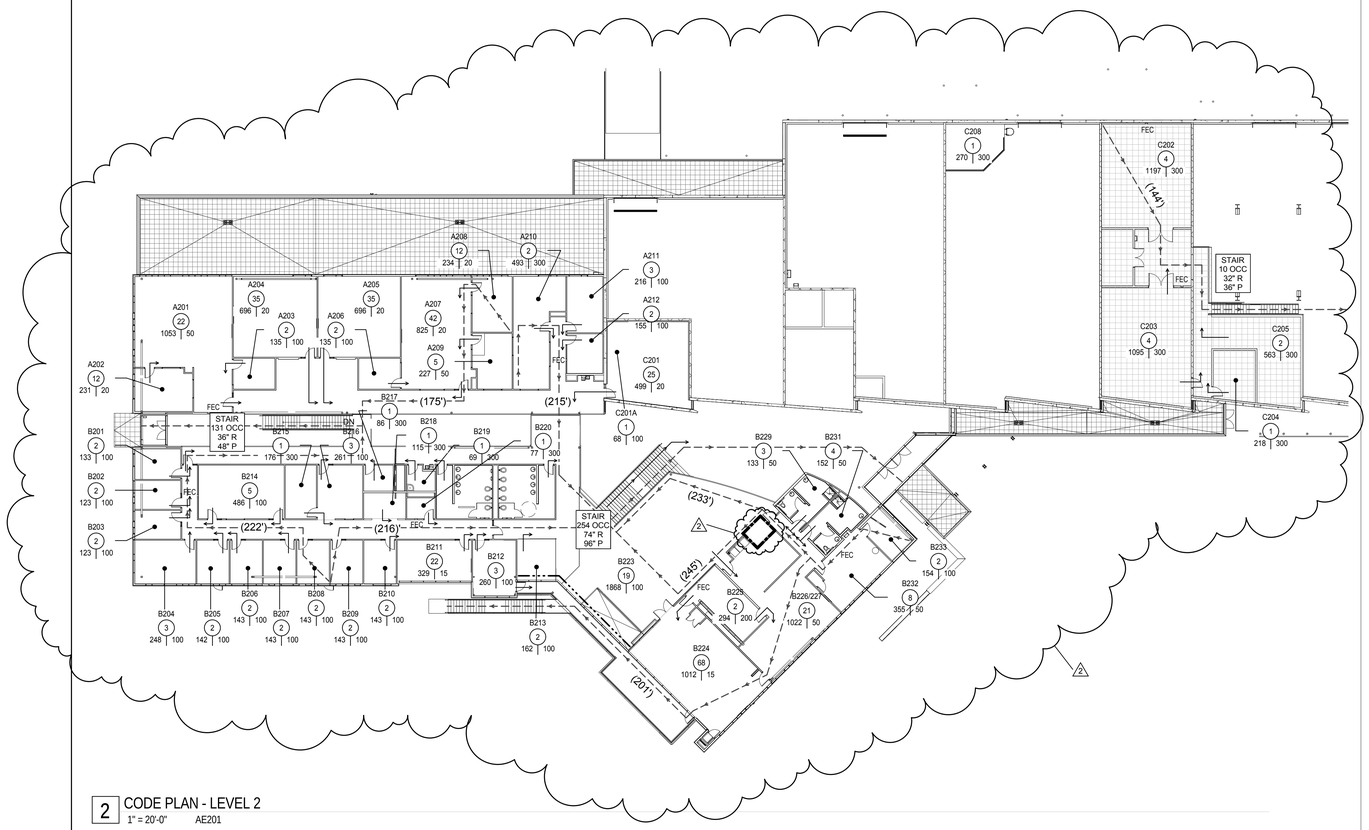
VOLUME 2



1 CODE PLAN - LEVEL 1
1" = 20'-0" AE201



2 CODE PLAN - LEVEL 2
1" = 20'-0" AE201

REQUIREMENTS FOR OCCUPANCY

1. A CODE INSPECTION REPORT RECOMMENDING THAT A CERTIFICATE OF OCCUPANCY BE ISSUED.
2. FINAL REPORT FROM THE SPECIAL INSPECTION AGENCY.
3. CERTIFICATE OF FIRE CLEARANCE FROM THE STATE FIRE MARSHALL.
4. FINAL APPROVAL FROM THE STATE ELEVATOR INSPECTOR, IF APPLICABLE.
5. FINAL APPROVAL FROM THE STATE BOILER INSPECTOR, IF APPLICABLE.
6. REPORT OF THE DISINFECTION OF THE POTABLE WATER SYSTEM. IPC 610.
7. A CERTIFICATE OF COMPLIANCE FROM THE APPROVED FABRICATOR, IF APPLICABLE. IBC 1704.2.2.
8. A STAMPED AND SIGNED FINAL REPORT FROM THE STRUCTURAL ENGINEER WHEN STRUCTURAL OBSERVATION IS REQUIRED BY IBC 1710.
9. FINAL REPORT FROM THE SPECIAL INSPECTOR AND THE MECHANICAL ENGINEER WHEN SMOKE CONTROL IS REQUIRED. THE REPORTS MUST COMPLY WITH IBC 909.18.8.3.
10. THE NFRC CERTIFICATE TO SHOW COMPLIANCE WITH THE FENESTRATION REQUIREMENTS OF THE INTERNATIONAL ENERGY.

LEGEND

HATCH	OCCUPANCIES IBC chapter 3
	A-2 15 SF / OCC
	A-3 300 SF / OCC
	F-1 200 SF / OCC
	B 100 SF / OCC

FIRE SEPARATION

- SHAFT ENCLOSURES
- EXIT PATH 250' MAX PER IBC 1016.1
- FIRE SPRINKLER WINDOW DELUGE
- FEC - FIRE EXTINGUISHING CABINET
- INTENDED PATH OF EGRESS

OCCUPANT LOADS

ROOM NUMBER — XXX — OCCUPANT LOAD

ROOM SQUARE FOOTAGE — 1 / 0 — LOAD FACTOR FROM TABLE 1004.1.1 IBC 2009

CODE ANALYSIS

APPLICABLE CODES

	Year		Year
International Building Code	2009	National Electrical Code	2008
International Mechanical Code	2009	Uniform Code for	
International Plumbing Code	2009	Building Conservation	2006
International Fire Code	2009	ADA Accessibility	
International Energy		Guildelines	ANSI
Conservation Code	2009		

A. Occupancy and Group: A-2 A-3 B F-1

Change in Use: Yes ____ No x Mixed Occupancy: Yes x No ____
Special Use and Occupancy (e.g. High Rise, Covered Mall): NO

B. Seismic Design Category: D Design Wind Speed: 90 mph

C. Type of Construction (circle one):

I	I	II	II	III	III	IV	V	V
A	B	A	B	A	B	HT	A	B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):

North:	South:	East:	West:
0 (180')	0 (520')	0 (520')	0 (130')

Area Increase I_f= Frontage % factor based on values F, P, W
F = Building perimeter fronting 20' min. public way (1202 feet)
P = Full Building perimeter (1202 feet)
W= Actual width of Public Way: 20 feet min. to 30 feet maximum (30 feet)
Area Increase I_f= [F/P - 0.25] W/30
= [1202'/1202' - 0.25]30'/30' = [1-0.25] 1 = 0.75

E. Mixed Occupancies: A-2, A-3, B, F-1 Nonseparated Uses: A-2/A-3 & B & F-1
A-2 & A-3 are considered accessory occupancies to B (main occupancy)
No separations required per IBC table 508.4

F: Sprinklers: Fully sprinkled. Area Increase = 200%
Required: Yes Provided: x Type of Sprinkler System: NFPA 13

Area Increase I_s= % factor based on fully sprinkled building and number of stories
I_s = 2 for no more than one story above grade, per IBC 2009 Section 506.3
I_s = 2

G: Number of Stories: 2 Building Height: 40

H: Actual Area per Floor (square feet): 51,934 First, 21,817 Second
73,751 SQUARE FEET TOTAL BUILDING AREA

I:

Actual area per occupancy type NET sf:		Actual area per occupancy type NET sf:	
A-2 First Floor	1,425	B Second Floor	13,400
A-3 First Floor	2,604	F-1 Second Floor	3,281
B First Floor	23,241		
F-1 First Floor	22,706		

J: Area Modifications (IBC section 506):

a) $A_a = A_t + [A_t I_f] + [A_t I_s]$

b) Non-separated allowable area calculation: occupancies A/2 & A/3 are accessory, <10% of floor total
Occupancy F1 (IBC table 503) is the most restrictive so it will be used for the entire building.

$\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1$

LEVEL 1-OCCUPANCY F1 non-separated	allowable	actual	%
a) A_a= 15,500+[15,500x.75]+[15,500x2]	= 58,125 sf	51,934 sf	89

LEVEL 2-OCCUPANCY F1 non-separated	allowable	actual	%
a) A_a= 15,500+[15,500x.75]+[15,500x2]	= 58,125 sf	21,817 sf	38

Sum of Area Ratios First Floor :
A-2 + A-3 + B + F-1 =
0 + 0 + 0 + 0 = 0
0< 0 OK

Sum of Area Ratios Second Floor :
B + F-1 =
0 + 0 = 0
0< 0 OK

d) Unlimited Area Building: Yes ____ No X Code Section: ____

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0		Floors - Ceiling Floors	0	
Interior Bearing Walls	0		Roofs - Ceiling Roofs	0	
Exterior Non-Bearing Walls	0		Exterior Doors and Windows	0	
Structural Frame	0		Shaft Enclosures	1	ANSI/UL 263-BXU V.U901
Partitions - Permanent	0				
Fire Barriers	0				
			Fire Walls	0	
			Fire Partitions	0	
			Smoke Partitions	0	

L. Design Occupant Load: 1116 1st 387 2nd ;
1503 TOTAL BUILDNG OCCUPANT LOAD

Exit Width Required: 24'-0" Exit Width Provided: 54'-0"

M. Minimum Number of Required Plumbing Facilities:

FIRST FLOOR RESTROOMS (IPC 2009 Table 403.1)

Occupancy	Occupant Load	Water Closets Ratio	M	Ratio	W	Lavatories Ratio	M	Ratio	W	Drinking Fountain	Service Sink
A2	135 70 M	1/75	1	1/75	1	1/200	1	1/200	1	1/500 1	1/space 1
A3	131 69 M	1/125	1	1/65	2	1/200	1	1/200	1	1/500 1	1/space 1
B	316 158 M	1/25<50 1/50>50	2 3	1/25<50 1/50>50	2 3	1/40<80 1/80>80	2 1	1/40<80 1/80>80	2 1	1/100 4	1/space 1
F1	486 243 M	1/100	3	1/100	3	1/100	3	1/100	3	1/400 1	1/space 1
TOTAL	1068 **		10		11		8		8	7	4
PROVIDED			11		11		11		11	7	4

**One water closet in each restroom is designed for ADA ambulatory requirements.

SECOND FLOOR RESTROOMS (IPC 2009 Table 403.1)

Occupancy	Occupant Load	Water Closets Ratio	M	Ratio	W	Lavatories Ratio	M	Ratio	W	Drinking Fountain	Service Sink
B	348 174 M	1/25<50 1/50>50	2 3	1/25<50 1/50>50	2 3	1/40<80 1/80>80	2 2	1/40<80 1/80>80	2 2	1/100 4	1/space 1
F1	12 6 M	1/100	1	1/100	1	1/100	1	1/100	1	1/1000 1	1/space 1
TOTAL	345		6		6		5		5	5	2
PROVIDED			6*		6		6		6	5	2

*One water closet in each restroom is designed for ADA ambulatory requirements.

FOOTNOTES:

1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through V - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.

2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
   a) High Rise Requirements.
   b) Atriums.
   c) Performance Based Criteria.
   d) Means or Egress Analysis.
   e) Fire Assembly Locator Sheet.
   f) Exterior and Interior Accessibility Route.
   g) Fire Stopping, Including Tested Design Number.

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH 01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions:
1 Addendum 2 2/10/2012
2 Addendum 3 2/17/2012

Code Plan

sheet:
GI003

100% Construction Documents

SPECIAL INSPECTION AND TESTING ITEMS
REQUIRED BY CHAPTER 17 OF THE 2009 IBC

Indicate items requiring special inspection or structural testing by checking the appropriate box. All items not requiring inspection/testing should be removed from the form. For items requiring continuous inspection, a special inspector must be present onsite during the performance of that task. In most cases "periodic" inspections/tests shall be performed prior to commencing the task, intermittently during the task, and at the completion of the task. The "Detailed Instructions & Frequency" provides a description of the presumed requirements for tasks requiring "periodic" inspections. The design professional in responsible should revise the requirements as needed on a project-specific basis.

FABRICATORS (IBC 1704.2)

☒ Approved Fabricator	Yes	No	☐ Unapproved Fabricator	Yes	No

Fabricators Name:	
Fabricators plant location	
Required In-plant Inspections	☐ Steel Construction ☐ Cold-formed Construction ☐ Concrete Construction Other:_____ ☐ Wood Construction Other:_____

STEEL CONSTRUCTION (IBC 1704.3, 1707.2 & 1708.3)

Item				Detailed Instructions and Frequencies
WELDING (1704.3.1)				
Complete & partial penetration groove welds	☒ Continuous	☐ Periodic		
Multi-pass fillet welds	☒ Continuous	☐ Periodic		
Single-pass fillet welds > 5/16"	☒ Continuous	☐ Periodic		
Single, slot, seam or flange welds	☒ Continuous	☐ Periodic		
Single-pass fillet welds ≤ 5/16"	☐ Continuous	☒ Periodic		Pre-welding inspections are to be performed to ensure that proper materials (i.e. structural steel, weld filler material, etc.), welding procedures, and welding personnel qualifications are appropriate. A visual inspection of all welds must be provided with periodic inspections made of work in progress.
Floor & roof deck welds	☐ Continuous	☒ Periodic		
Shear connector (i.e. stud) welds	☐ Continuous	☒ Periodic		
Cold-formed steel welds	☐ Continuous	☒ Periodic		
Welds of stairs & railing systems	☐ Continuous	☒ Periodic		
DETAILS OF STEEL FRAME (1704.3.2)				
Member locations, bracing, gusset plates, stiffeners and other connection components	☐ Continuous	☒ Periodic		All steel frames shall be inspected to verify compliance with the approved construction documents, such as bracing, stiffening, member size and location, and proper application of joint details at each connection.
HIGH-STRENGTH BOLTING (1704.3.3)				
Pretensioned & slip-critical joints	☐ Continuous	☒ Periodic ☐ #1 ☐ #2 ☐ #3		For periodic inspections one of the following methods must be used: (1) turn-of-nut method w/ match-marking, (2) direct tension indicator method or (3) the alternate design fastener (i.e. twist-off bolt) method (see Section 9.2 of 2009 RCSC Specification).
Snug-tightened joints	☐ Continuous	☒ Periodic		Verify that all joints use proper fastener components,

				connected elements are fabricated properly, the bolted joint is drawn into firm contact, and that the nuts cannot be removed without the use of a wrench (see Section 9.1 of 2009 RCSC Specification).
STRUCTURAL STEEL (IBC 1707.2 & 1708.3)				
Visual Inspection prior to welding	☒ Continuous			
Visual Inspection during welding	☒ Continuous			
Visual Inspection after welding			☒ Periodic	Verify that welds are clean; welder identification is legible; size, length and location of welds; verify that welds meet acceptance criteria; placement of reinforcement fillets; removal of backing bars and weld tabs as required; and repair activities (see Section QS.1 of AISC 341-05).
Nondestructive testing	☒ Continuous			(1) When welding of double bevel plates, continuity plates or stiffeners has been done in the k-area, the web shall be tested for cracks using magnetic particle testing (MT). Inspection area shall include the k-area base metal within 3 in. of the weld. (2) percent of all beam-to-wall CJP groove welds. (3) At welded splices and connections, thermally cut surfaces of beam copes and access holes shall be tested when the flange thickness exceeds 1 ½" for rolled shapes or when the web thickness exceeds 1 ½" for build-up shapes. (4) Any weld and adjacent area of the RBS plastic hinge region that has been repaired by welding, or on the base metal of the RBS plastic hinge region if a sharp notch has been removed by grinding. (5) The ends of welds from which the weld tabs have been removed, except for continuity plate weld tabs. (6) Where approved by the Engineer and the Building Official, the amount of required MT on CJP groove welds may be reduced to 10% provided the demonstrated reject rate of a welder or welding operator is 5% or less and at least 20 completed welds have been used to calculate reject rate. This reduction only applies to welds in item (2) above, and is not permitted on other welds requiring MT.
Inspection prior to bolting	☒ Continuous			
Inspection during bolting	☒ Continuous			
Inspection after bolting			☒ Periodic	Document accepted and rejected connections (see Section QS.3 of AISC 341-05).
Reduced beam sections (RBS)			☒ Periodic	Verify contour and finish as well as dimensional tolerances (see Section QS.4 of AISC 341-05).
Protected zones			☒ Periodic	Verify that no holes or unapproved attachments are made within the protected zone (see Section QS.4 of AISC 341-05).

CONCRETE CONSTRUCTION (IBC 1704.4 & 1708.2)

Item				Detailed Instructions and Frequencies
Reinforcing steel, including prestressing tendons	☐ Continuous	☒ Periodic		Verify prior to placing concrete that reinforcing is of specified type, grade and size; that it is free of oil, dirt

				and rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report.
Welding of reinforcing steel	☐ Continuous	☒ Periodic		Verify weldability of reinforcing steel other than A706. Continuous inspection is required for welding of reinforcing steel used in intermediate or special concrete moment frames, boundary elements of special structural walls, or shear reinforcement.
Cast-in bolts & embeds	☒ Continuous	☐ Periodic		
Post-installed anchors or dowels	☐ Continuous	☐ Periodic		All post-installed anchors/dowels shall be specially inspected as required by the approved ICC-ES report.
Use of required mix design	☒ Continuous	☐ Periodic		Verify that all mixes used comply with the approved construction documents; ACI 318: Ch. 4, 5.2-5.4; and IBC 1904.3, 1911.2, 1913.3.
Concrete sampling for strength tests, slump, air content, and temperature	☒ Continuous	☐ Periodic		
Concrete & shotcrete placement	☒ Continuous	☐ Periodic		
Curing temperature and techniques	☐ Continuous	☒ Periodic		Verify that the ambient temperature for concrete is kept at > 50°F for at least 7 days after placement. High-early-strength concrete shall be kept at > 50°F for at least 3 days. Accelerated curing methods may be used (see ACI 318: 5.11.3). The ambient temperature for shotcrete shall be > 40°F for the same period of time as noted for concrete. Shotcrete shall be kept continuously moist for at least 24 hours after shotcreting. All concrete materials, reinforcement, forms, fillers, and ground shall be free from frost. In hot weather conditions ensure that appropriate measures are taken to avoid plastic shrinkage cracking and that the specified water/cement ratio is not exceeded.
Erection of precast concrete	☐ Continuous	☒ Periodic		Verify that all precast elements are lifted, assembled and braced in accordance with the approved construction documents.
Strength verification	☐ Continuous	☒ Periodic		Verify that adequate strength has been achieved prior to the removal of shores and forms or the stressing of post-tensioned tendons.
Formwork	☐ Continuous	☒ Periodic		Verify that the forms are placed plumb and conform to the shapes, lines, and dimensions of the members as required by the approved construction documents.
Reinforcement in special moment frames, special structural walls and coupling beams	☐ Continuous	☒ Periodic		Verify that ASTM A615 reinforcing steel used in these areas complies with ACI 318: 21.1.5.2 by means of certified mill test reports. If this reinforcing steel is to be welded chemical tests shall be performed in accordance with ACI 318: 3.5.2.

MASONRY CONSTRUCTION (IBC 1704.5)

Item				Detailed Instructions and Frequencies
Review material certificates, mix designs, test results and construction procedures	☐ Continuous	☒ Periodic		It shall be confirmed that materials used conform to the requirements of the approved construction documents. Mortar mix designs shall show compliance with the proportion or property specification of ASTM C270. Grout shall comply with the proportion or strength requirements of ASTM C476 or be based upon compressive strength tests in accordance with ASTM C1019. Material certificates shall be provided for the following: reinforcement; anchors, ties, fasteners, and metal accessories; masonry units; mortar and grout materials. Construction procedures for cold-weather or hot-weather construction shall be reviewed.
Verify f'_m and F_{vm} prior to construction	☐ Continuous	☒ Periodic		Determine the compressive strength for each wythe by the "unit strength method" or by the "prism test method" as specified in Section 1.4B of ACI 530.1-08 prior to construction. For Occupancy Category IV this should be verified at every 5,000ft² of construction.
Self-consolidating grout	☒ Continuous	☐ Periodic		
Grout placement	☒ Continuous	☐ Periodic		
Preparation of required grout specimens, mortar specimens and/or prisms shall be observed	☐ Continuous	☒ Periodic		If the prism test method is used a minimum of three prisms shall be constructed in accordance with ASTM C1314. If the unit strength method is selected the compressive strength of the grout shall be determined per ASTM C1019 (not required if grout complies with ASTM C476). Continuous inspection required for Occupancy Category IV structures.
Post-installed anchors or dowels	☐ Continuous	☐ Periodic		All post-installed anchors/dowels shall be specially inspected as required by the approved ICC-ES report.
PRIOR TO GROUTING:				
Grout space is clean	☐ Continuous	☒ Periodic		Verify that grout space is free of mortar droppings, debris, loose aggregate, and material deleterious to masonry grout. Continuous inspection required for Occupancy Category IV structures.
Placement of reinforcement an connectors, and prestressing tendons and anchorages	☐ Continuous	☒ Periodic		Verify that reinforcement, joint reinforcement, wall ties, anchor bolts and veneer anchors are installed in accordance with Section 3.4 of ACI 530.1-08.
Proportions of site-prepared grout and prestressing grout	☐ Continuous	☒ Periodic		Verify that grout is proportioned per ASTM C476 and has a slump between 8-11 inches. Self-consolidated grout shall not be proportioned onsite.
AS MASONRY CONSTRUCTION BEGINS:				
Proportions of site-prepared mortar	☐ Continuous	☒ Periodic		Ensure that mortar that begins to stiffen or is not used within 2½ hours is discarded. No admixtures containing > 0.2% chlorides shall be used. Jobsite pigments shall meet the limitations of Section 2.6A of ACI 530.1-08.
Construction of mortar joints	☐ Continuous	☒ Periodic		Unless specified otherwise construct 3/8" bed and head joints, except at foundation or glass unit masonry. Bed joint at foundation shall be >¼" and ≤ 3/4". Tool joints with a round jointer when mortar is thumbprint hard. Remove masonry protrusions extending ≥ 1/2" into cells to be grouted. Solidly fill

Location of reinforcement, connectors, prestressing tendons and anchorages	☐ Continuous	☒ Periodic		collar joints < 3/4" with mortar during construction. Verify compliance with approved construction documents. Do not place dissimilar metals in contact with each other. Prestressing tendon placement shall conform to Section 3.6A of ACI 530.1-08.
Prestressing technique	☐ Continuous	☒ Periodic		The pre-stressing force at each tendon shall be verified by two methods: (1) measuring the steel elongation and (2) the observed jacking force applied to the tendon. The measured elongation should be compared to the load-elongation curves for the pre-stressing steel used and not more than a 5%-difference should be found when comparing to the actual force applied. A 7%-difference is allowed for post-tensioned tendons. (See Section 3.6B of ACI 530.1-08)
Grade and size of prestressing tendons and anchorages	☐ Continuous	☒ Periodic		Confirm that anchorages and couplers are capable of developing 95% of the specified breaking strength of the prestressing tendons. Confirm that tendons meet the requirements of Section 2.4B in ACI 530.1-08.
DURING CONSTRUCTION:				
Size and location of structural elements	☐ Continuous	☒ Periodic		Verify that structural elements are placed in locations specified on the approved construction documents and to the tolerances noted in Section 3.3F of ACI 530.1-08.
Type, size and location of anchors and other details of masonry anchorages to structural members	☐ Continuous	☒ Periodic		Verify that structural elements are placed in locations specified on the approved construction documents. Headed or bent bar anchor bolts shall be embedded in grout. Continuous inspection required for Occupancy Category IV structures.
Size, grade and type of reinforcement, prestressing tendons and metal accessories	☐ Continuous	☒ Periodic		Verify that materials meet the requirements of Section 2.4 of ACI 530.1-08. All reinforcement shall be placed in grout with minimum grout cover of 1/2" for coarse grout and 1/4" for fine grout. Verify that reinforcement protection, standard hooks and minimum bend diameters comply with Section 1.15 of ACI 530-08.
Welding of reinforcing bars	☒ Continuous	☐ Periodic		
Preparation, construction and protection of masonry during cold or hot weather construction	☐ Continuous	☒ Periodic		When the ambient air temperature is <40°F ensure that construction complies with Section 1.8C of ACI 530.1-08. When the ambient air temperature is >100°F, or >90°F with a wind velocity >8mph, ensure that construction complies with Section 1.8D of ACI 530.1-08.
Application and measurement of prestressing force	☒ Continuous	☐ Periodic		

SOILS CONSTRUCTION (IBC 1704.7)

Item				Detailed Instructions and Frequencies
Verify subgrade is adequate to achieve design bearing capacity	☐ Continuous	☒ Periodic		Prior to placement of concrete.
Verify excavations extend to proper depth and material	☐ Continuous	☒ Periodic		Prior to placement of compacted fill or concrete.

Verify that subgrade has been appropriately prepared prior to placing compacted fill	☐ Continuous	☒ Periodic		Prior to placement of compacted fill.
Perform classification and testing of compacted fill materials	☐ Continuous	☒ Periodic		All materials shall be checked at each lift for proper classifications and gradations not less than once for each 10,000ft² of surface area.
Verify proper materials, densities and lift thicknesses during placement and compaction.	☒ Continuous	☐ Periodic		

COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION (IBC 1704.3.4, 1706.3 & 1707.4)

Item				Detailed Instructions and Frequencies
Trusses spanning > 60-feet	☐ Continuous	☒ Periodic		Verify that temporary and permanent truss bracing is installed in accordance with approved truss package. Performed by code inspection firm.
Wind-force-resisting systems or seismic-force-resisting systems	☐ Continuous	☒ Periodic		Periodic inspections of welding operations. If fastener spacing is < 4"o.c.: Verify that proper screw attachment, bolting, anchoring and other fastening of shearwalls, diaphragms, drag struts, braces, shear panels and holdowns has occurred. Performed by code inspection firm.

STORAGE RACKS & ACCESS FLOORS (IBC 1707.5)

Item				Detailed Instructions and Frequencies
Verify anchorage	☐ Continuous	☒ Periodic		Verify that anchorage complies with approved construction documents. Inspection of post-installed anchors shall comply with approved ICC-ES report. Performed by code inspection firm.

ARCHITECTURAL COMPONENTS (IBC 1707.6)

Item				Detailed Instructions and Frequencies
Erection and fastening of exterior cladding or interior and exterior veneers	☐ Continuous	☒ Periodic		Verify appropriate materials, fasteners and attachment at commencement of work and at completion. Performed by code inspection firm. (Not required if < 30 feet or less than 5psf).
Erection and fastening of interior and exterior nonbearing walls	☐ Continuous	☒ Periodic		Verify appropriate materials, fasteners and attachment at commencement of work and at completion. Performed by code inspection firm. (Not required if < 30 feet or for interior walls < 15psf).

MECHANICAL & ELECTRICAL COMPONENTS (IBC 1707.7, 1707.8 & 1708.4)

Item				Detailed Instructions and Frequencies
Anchorage of emergency or standby power systems	☐ Continuous	☒ Periodic		Verify that anchorage complies with approved construction documents. Performed by code inspection firm.
Installation of piping systems carrying flammable, combustible or highly toxic materials	☐ Continuous	☒ Periodic		Verify that installation and restraint comply with approved construction documents. Performed by code inspection firm.
Installation of HVAC ductwork containing hazardous materials	☐ Continuous	☒ Periodic		Verify that installation and restraint comply with approved construction documents. Performed by code

Installation of vibration isolation systems having a clearance of ≤¼"	☐ Continuous	☒ Periodic		Inspection firm. Verify that installation complies with approved construction documents and manufacturer's recommendations. Performed by code Inspection firm.
Designated seismic systems	☐ Continuous	☒ Periodic		Confirm that manufacturer's certificate of compliance conforms to the requirements of Section 13.2.1 of ASCE 7-05. Verify that the label, anchorage or mounting conforms to the manufacturer's certificate of compliance. Performed by code Inspection firm.

MISCELLANEOUS AREAS

These inspections are recommended by the Architect/Engineer and approved by DFCM.

				Detailed Instructions and Frequencies
Suspended Ceiling Grid Clips	☐ Continuous	☒ Periodic		Performed by code inspection firm.
Suspended Ceiling wire spacing (Seismic)	☐ Continuous	☒ Periodic		Performed by code inspection firm.
Soils backfill (specify locations and frequency)	☐ Continuous	☐ Periodic		
Soils for curb and gutter (specify locations and frequency)	☐ Continuous	☐ Periodic		
Soils for parking lots (specify locations and frequency)	☐ Continuous	☐ Periodic		
Soils for utility trench backfill	☐ Continuous	☐ Periodic		
Reinforcement for slab on grade sidewalks and drive approaches (specify locations and frequency).	☐ Continuous	☐ Periodic		
Reinforcement for interior slab on grade (specify locations and frequency)	☐ Continuous	☐ Periodic		
Concrete testing for slab on grade sidewalks and drive approaches (specify locations and frequency)	☐ Continuous	☐ Periodic		
Concrete testing for interior slab on grade (specify locations and frequency)	☐ Continuous	☐ Periodic		
Asphalt inspection (specify locations and frequency)	☐ Continuous	☐ Periodic		
Asphalt testing (specify locations and frequency)	☐ Continuous	☐ Periodic		
Steam and water line welding (specify locations and frequency).	☐ Continuous	☐ Periodic		
Seismic supports for duct work and sealing of joints for duct work	☐ Continuous	☐ Periodic		
Seismic supports for electrical raceways, cable trays and lights	☐ Continuous	☐ Periodic		
Seismic supports for plumbing lines including gas, water and steam and condensation	☐ Continuous	☐ Periodic		
Seismic bracing for mechanical units both on slab and suspended	☐ Continuous	☐ Periodic		
	☐ Continuous	☐ Periodic		
	☐ Continuous	☐ Periodic		

	☐ Continuous	☐ Periodic		
	☐ Continuous	☐ Periodic		
	☐ Continuous	☐ Periodic		
	☐ Continuous	☐ Periodic		
	☐ Continuous	☐ Periodic		
	☐ Continuous	☐ Periodic		
	☐ Continuous	☐ Periodic		
	☐ Continuous	☐ Periodic		
	☐ Continuous	☐ Periodic		
	☐ Continuous	☐ Periodic		
	☐ Continuous	☐ Periodic		

Special Inspectors Shall:

- Be approved by the Building Official prior to performing any duties;
- Provide proof of licensure as a special Inspector by the State of Utah for each type of Inspection;
- Inspection reports are to meet the requirements of IBC 1704.1.2 and DFCM standards;
- Inspection reports are to be submitted to the code consultant, architect, DFCM project manager, and the State of Utah Building Official within 48 hours of performing inspections;
- A final inspection report shall be submitted following completion of the project documenting the types of special inspections performed and a statement indicating that the structure is in compliance with the approved construction documents and applicable codes (see IBC 1704.1.2).

Updated May 16, 2011

1

DEFERRED SUBMITTALS

SUBMITTAL DEADLINE	CONTRACTOR TO PROVIDE DEFERRED SUBMITTALS FOR THE FOLLOWING ITEMS:
5/21/2012	1. ALTERNATE #1- PRE-ENGINEERED FREE STANDING 5-TON CRANE AND RUNWAY SYSTEM
6/21/2012	2. FIRE SPRINKLER SYSTEM PLANS- **Complete submittal form From Utah State Fire Marshal's website http://publicsafety.utah.gov/firemarshal**
6/21/2012	3. FIRE ALARM PLANS- **Complete submittal form From Utah State Fire Marshal's website http://publicsafety.utah.gov/firemarshal**
6/21/2012	4. SEE THE NON STRUCTURAL COMPONENT CHECKLIST ON THIS SHEET FOR ADDITIONAL DEFERRED MEP COMPONENTS
	5. SEE THE NOTES ON THE NONSTRUCTURAL COMPONENT CHECKLIST ON THIS SHEET FOR ADDITIONAL SUBMITTAL REQUIREMENTS.
6/21/2012	6. ROOF ACCESS LADDERS AND MEZZANINE STORAGE LADDER. PROVIDE FRAMING AND ANCHORAGE DETAILS
4/20/2012	7. OPEN WEB STEEL JOISTS

Note:
1. The deferred submittal must include all necessary details and specific information relating to the materials, type, size, etc. as necessary to fabricate and install the deferred submittal item.
2. Work related to the deferred submittal is not to commence until the Building official has approved the submittal.

PROPOSED DFCM MATERIALS TESTING/SPECIAL INSPECTION STANDARD (REV. a13-03)

Table 1 **SPECIAL INSPECTION/TESTING PERSONNEL**

Personnel	Certificate
Concrete Special Inspector	ICC; ACI Level II
Fireproofing Special Inspector	ICC
Masonry Special Inspector	ICC
Welding/Steel Special Inspector	ICC; CWI; CAWI
High Strength Bolting Inspector	ICC
Concrete Field Technician	ACI level I; WAQTC-CTT; PCA; NRMCA; NICET
Soils Technician	NICET level II; WAQTC-EbTT/DTT
Masonry Field Technician (Grout/mortar samples)	ACI level I; WAQTC-CTT
Non-Destructive Testing	*NDT III; II; I

Table 2 **LABORATORY**

ASTM Standard	Accreditation Authority
Concrete (C 1077)	AAP; CMEC; A2LA; NVLAP
Masonry (C 1093)	** AAP (with C 1077); CMEC; A2LA; NVLAP
Steel (A 880)	A2LA; NVLAP
Soils/Rock (D 3740)	AAP; CMEC; A2LA; NVLAP
Bituminous (D 3666)	AAP; CMEC; A2LA; NVLAP
Non Destructive testing (E 543)	A2LA; NVLAP
Lab Competence (E 548)	AAP; CMEC; A2LA; NVLAP
Fireproofing (E 605)	A2LA; NVLAP

Notes: Accreditation is required to perform any test referenced within ASTM standards (Table 2, column 1).
*NDT level I must have on site supervision by NDT level II or III.
**AAP ASTM C 1077 accreditation permits materials testing on grout, mortar and masonry prisms.

Organizations providing accreditation, training and certification:

A2LA, American Association for Laboratory Accreditation.
AAP, AASHTO Accreditation Program.
ACI, American Concrete Institute.
CMEC, Construction Materials Engineering Council.
ICC, International Conference of Building Officials.
NDT, Non Destructive Testing.
NICET, National Institute for Certification in Engineering Technologies.
NRMCA, National Ready Mix Concrete Association.
NVLAP, National Institute of Standards and Technology.
PCA, Portland Cement Association.
WAQTC, Western Alliance for Quality Transportation Construction.

DFCM Material Testing/Inspection Standard is subject to change without notice.

Rev. a15/03

1

NONSTRUCTURAL COMPONENT CHECKLIST

ITEM DESCRIPTION	*NOT REQUIRED*	*ON CONST. DOCUMENTS*	*DEFERRED SUBMITTAL*	*COMMENTS*
Architectural Components:				
Interior Nonstructural Walls & Partitions		X		AE621 ALL WALLS TO DECK ABOVE
Cantilever Elements *(i.e. parapets, etc.)*	X			
Exterior Nonstructural Wall Elements	X			
Veneer	X			
Penthouses	X			
Ceilings *(i.e. suspended grid or hard-lid)*		X		AE806 CEILING DETAILS
Cabinets *(i.e. storage cabinets, equip. etc.)*		X		AE901 BLOCKING DETAILS
Access Floors	X			
Storage Racks	X			
Appendages & Ornamentations	X			
Signs & Billboards	X			
Other:				AE901 BLOCKING DETAILS
Other:				
MEP Components:				
Fire Sprinklers			X	
Mechanical Equipment *(i.e. HVAC, fans, air handlers, boilers, furnaces, tanks, chillers, water heaters, heat exchangers, evaporators, engines, turbines, pumps, compressors, MRR equipment, etc.)*			X	
Electrical Equipment *(i.e. generators, batteries, inverters, transformers, MCC, panel boards, switch gear, cabinets, etc.)*			X	
Elevator & Escalator Components			X	
Communication Equipment, Computers, Instrumentation, and Controls			X	
Roof-mounted Chimneys, Stacks, Cooling & Electrical Towers			X	
Lighting Fixtures		X		EE501 ELECTRICAL DETAILS
Vibration Isolated Components			X	
Piping & Conduit Systems			X	
Ductwork *(including in-line components)*			X	
Conveyors	X			
Cable Trays			X	
Other:				
Other:				

NOTES:

1. Deferred submittals for seismic restraint of nonstructural components must be submitted to the DFCM Building Official a minimum of two weeks prior to the planned installation in order to allow for plan review and forwarding to inspectors. In the event that the submittal is delayed, additional time may become necessary.
2. If seismic restraints of non-structural components are installed prior to receiving DFCM approval they shall not be covered or concealed until receiving both plan review and inspection approval. Further, Installers are proceeding at their own risk until plan review and inspection approval occurs.
3. The requirements for seismic restraint of nonstructural components cannot be satisfied by a general reference to Design Manuals. The design professional may utilize these manuals as a basis of their design, but must provide all supporting documentation to ensure that the design conforms to the requirements of ASCE 7-05, Chapter 13.
4. Submittals must include details of the proposed seismic restraint of nonstructural components. These details must show specific information relating to the materials, type, size, and locations of anchorages; materials used for bracing; attachment requirements of bracing to structure and component; and locations of transverse and longitudinal sway bracing and rod stiffeners. Submittals may also require structural calculations, engineering reports, test data, and/or specifications to ensure code compliance.

Revised: 02/15/2010

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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METHOD STUDIO INC.
925 south west temple
salt lake city, utah 84101
phone:(801) 532-4422

consultants:

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

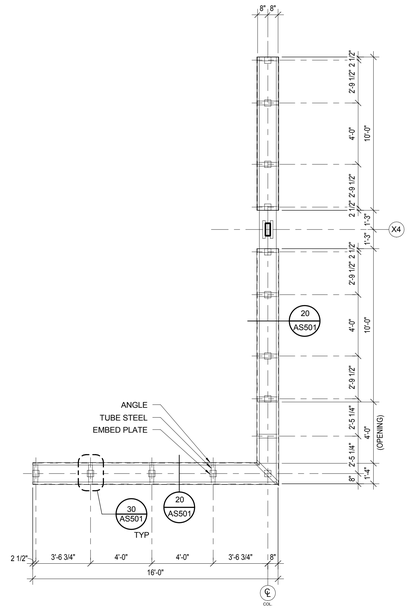
project#: 11.0420
date: 1/20/2012

revisions:
1 Addendum 3 2/17/2012

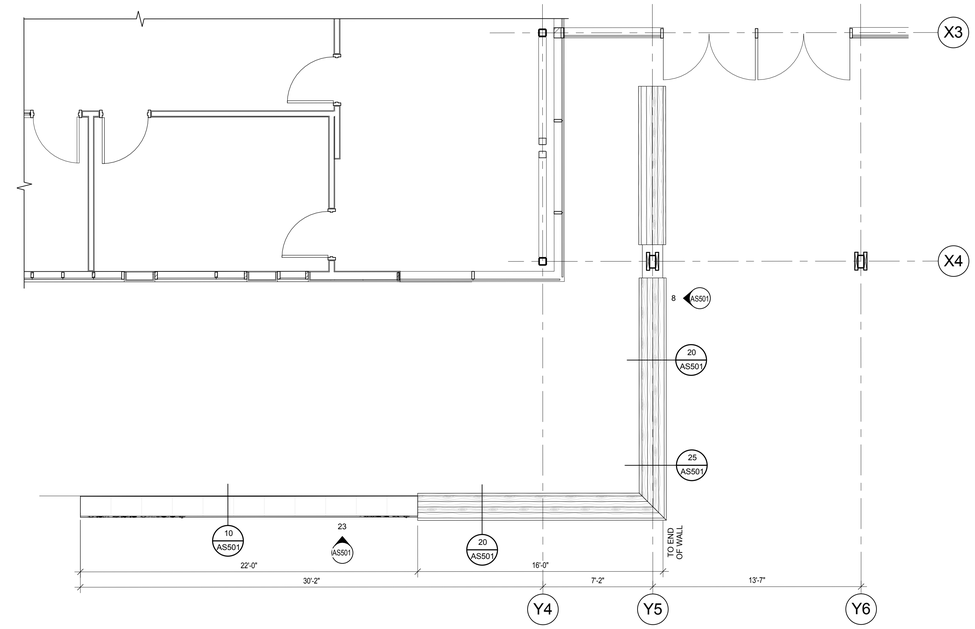
Special Inspections - Check list

sheet:
GI004

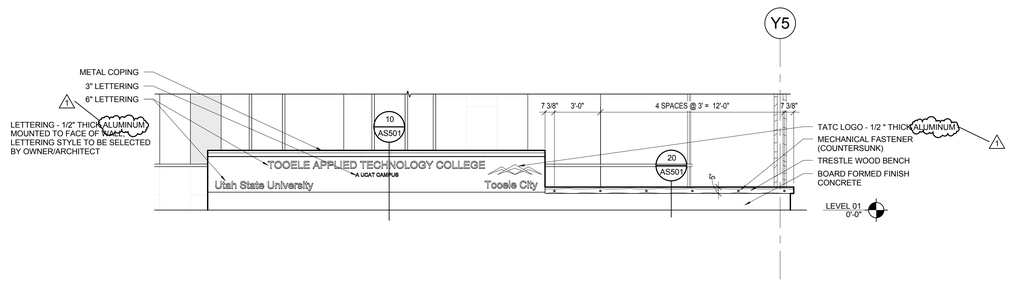
100% Construction Documents



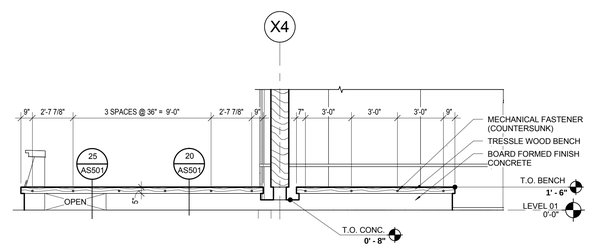
22 Bench Framing Plan
1/4" = 1'-0"



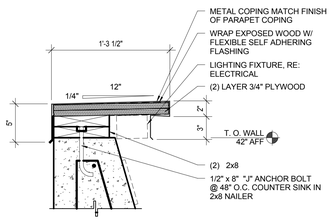
12 ENLARGED PLAN - MONUMENT SIGN/BENCH
1/4" = 1'-0"



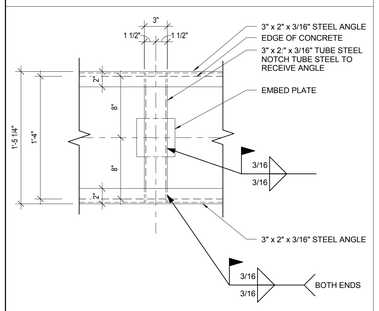
23 ENTRY MONUMENT SIGN/BENCH ELEVATION - SOUTHEAST
1/4" = 1'-0"



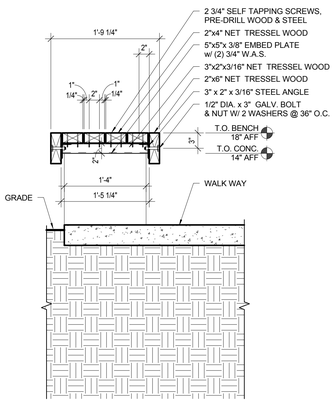
8 ENTRY BENCH ELEVATION - NORTHEAST
1/4" = 1'-0"



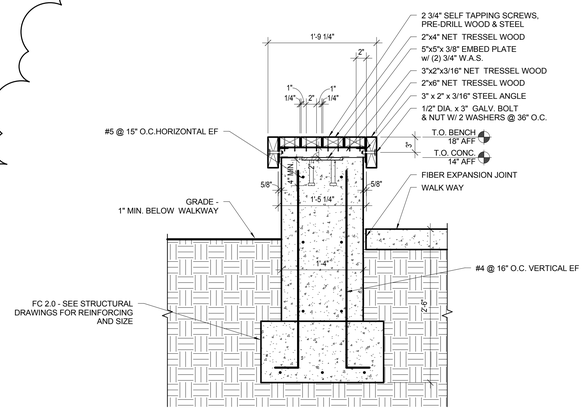
29 MONUMENT SIGN CAP DETAIL
1 1/2" = 1'-0"



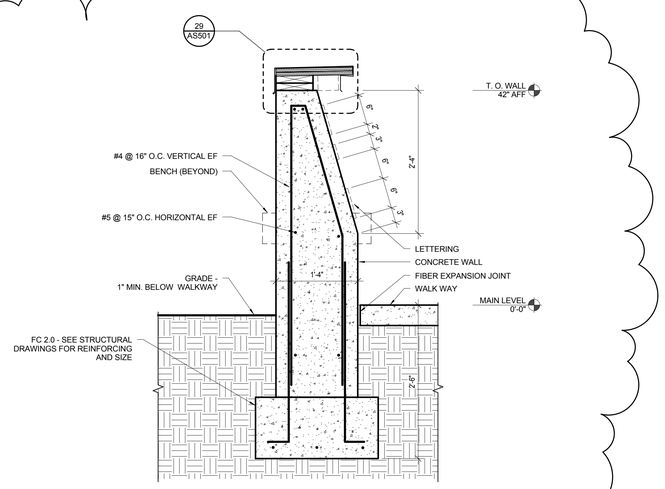
30 EMBED PLATE DETAIL
1 1/2" = 1'-0"



25 BENCH SECTION
1" = 1'-0"



20 BENCH SECTION
1" = 1'-0"



10 ENTRY MONUMENT SIGN SECTION
1" = 1'-0"

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
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Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

1	Addendum 2	2/10/2012
2	Addendum 3	2/17/2012

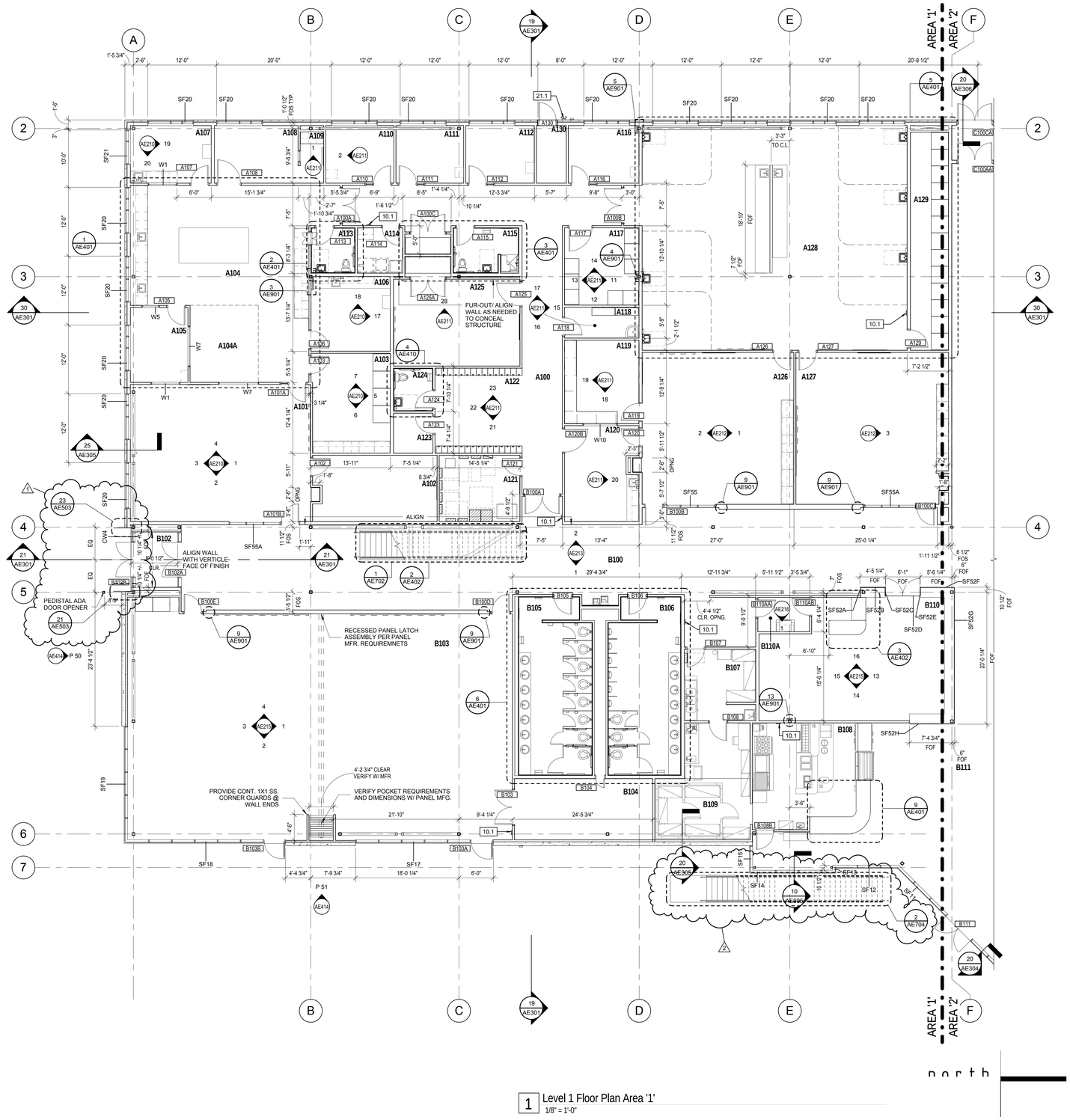
Site Details

sheet:

AS501

100% Construction Documents

ROOM SCHEDULE LEVEL _1	
Number	Name
A100	CORRIDOR
A101	MEDICAL ASSISTING CLASSROOM
A102	TESTING
A103	STORAGE
A104	MEDICAL ASSISTING LAB
A104A	LAB RECEPTION
A105	MA Office
A106	SURGERY
A107	EXAM
A108	XRAY
A109	X-RAY CONTROL
A110	OFFICE
A111	OFFICE
A112	OFFICE
A113	TOILET
A114	LAUNDRY
A115	INSTRUCTION TOILET
A116	OFFICE
A117	CNA STORAGE
A118	JANITOR
A119	CONTROL
A120	SIM ROOM
A121	ELECTRICAL
A122	LOCKER ROOM
A123	STORAGE
A124	TOILET
A125	CPR
A126	LPN/CNA CLASSROOM
A127	RN CLASSROOM
A128	LPN/RN/CNA LAB SUITE
A129	STORAGE
A130	FIRE RISER ROOM
B100	CORRIDOR
B101	LOBBY
B101A	VESTIBULE
B102	VESTIBULE
B103	MULTIPURPOSE ROOM
B104	STORAGE
B105	WOMEN
B106	MEN
B107	KITCHEN STORAGE
B108	KITCHEN
B109	WALK-IN COOLER
B110	BOOKSTORE
B110A	BOOKSTORE STORAGE
B111	CAFETERIA
B112	MEDIA
B113	PLACEMENT
B114	PLACEMENT OFFICE
B115	OFFICE
B116	ASSESSMENT
B117	ELEV. EQ.
B118	ELEVATOR
B119	RECEPTION
B120	ENROLLMENT
B120A	CORRIDOR
B121	ENROLMENT WAITING
B122	COUNSELOR
B123	SIS OFFICE
B124	STORAGE / STUDENT RECORDS
B125	SPARE OFFICE
B126	SS VP
C100	CORRIDOR
C100A	CORRIDOR
C100B	COORIDOR
C100C	VESTIBULE
C100D	VESTIBULE
C101	SHELLED LAB
C102	SHELLED CLASSROOM
C102A	RECEIVING
C103	CONSTRUCTION TECHNOLOGY LAB
C103A	VESTIBULE
C104	CONSTRUCTION TECHNOLOGY CLASSROOM
C105	CT STORAGE
C106	CT OFFICE
C107	WELDING LAB
C108	GRINDING
C109	MAIN ELECTRICAL
C110	SUPPLY ROOM
C111	TOOL STORAGE
C112	DIESEL CLASSROOM
C113	DIESEL OFFICE
C114	WELDING CLASSROOM
C115	WELDING OFFICE
C116	WL STORAGE
C117	LOCKER
C118	TOILET
C119	LOCKER
C120	TOILET
C121	CE & R LAB
C122	CE & R STORAGE
C123	CE & R OFFICE
C124	CE & R CLASSROOM



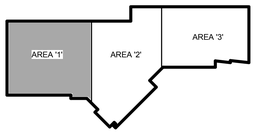
1 Level 1 Floor Plan Area '1'
1/8" = 1'-0"

GENERAL NOTES

1	SEE SHEET AE601 FOR DOOR AND WINDOW SCHEDULE.
2	SEE SHEET AE602, AE603 AND AE603 FOR ALL GLAZING ELEVATIONS. SEE AE605 FRAME TYPES AND DOOR TYPES
3	GUARDRAIL AND SUPPORTS TO BE SYMMETRICAL ACROSS FLOOR OPENINGS AND ADJACENT LIKE ELEMENTS TYP. INITIAL SUPPORTS TO BE 6" FROM START AND END OF GUARD RAIL RUNS TYP. MAX SPACING BETWEEN SUPPORTS TO BE 5'-0" TYP. NOT ALL GUARDRAILS ARE ELEVATED. COORDINATE ALL GUARDRAILS AND SUPPORTS WITH GUARDRAIL DETAIL SHEETS.
4	ALL INTERIOR EXPOSED STEEL TO BE PAINTED, SEE FINISH SCHEDULE. AREAS 2 & 3, WEST OF GRID 4 AND SHOP SPACES ARE EXCLUDED U.N.O.
5	PROVIDE SEMI-RIGID JOINT SEALER @ ALL INTERIOR CONCRETE JOINTS WEST OF GRID 4 AND NORTH OF GRID G
6	CONTRACTOR TO PROVIDE SOLID BLOCKING AT ALL CASE WORK, FIXED FURNISHINGS AND EQUIPMENT. COORDINATE WITH ELEVATIONS, SECTIONS AND FURNITURE AND FIXTURE SHEETS AND SPECIFICATIONS. SEE SHEET AE901 FOR TYPICAL DETAILS

KEYNOTE LEGEND

10.1	SEMI-RECESSED FIRE EXTINGUISHER CABINET
21.1	FIRE DEPARTMENT CONNECTION. SEE MECHANICAL.



LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions:
1 Addendum 2 2/10/2012
2 Addendum 3 2/17/2012

Lvl 1 Floor Plan Area '1'

sheet:
AE101

100% Construction Documents

ROOM SCHEDULE LEVEL _1	
Number	Name
A100	CORRIDOR
A101	MEDICAL ASSISTING CLASSROOM
A102	TESTING
A103	STORAGE
A104	MEDICAL ASSISTING LAB
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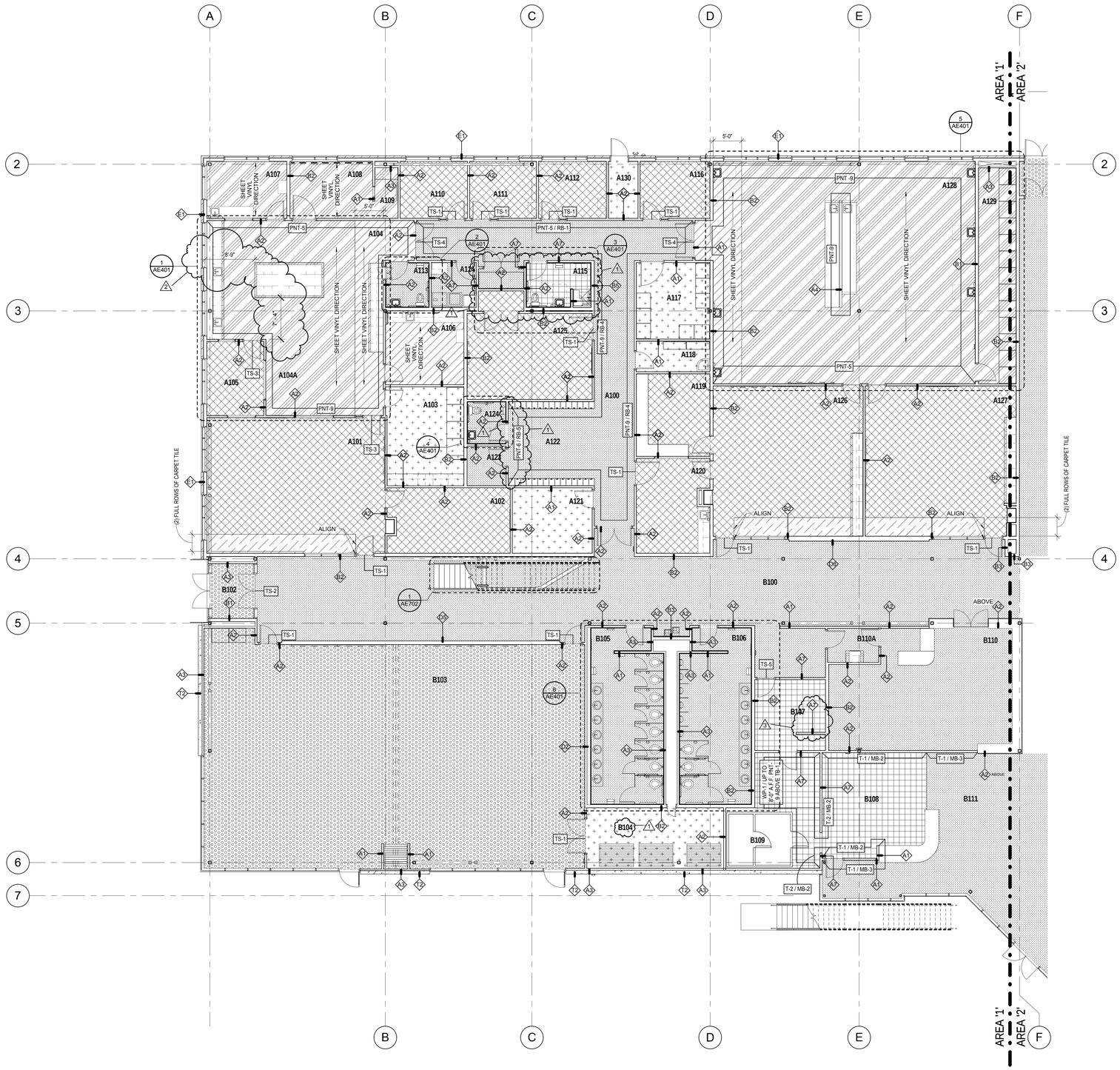


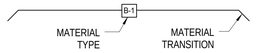
1 Level 1 Finish Plan Area '1'
1/8" = 1'-0"

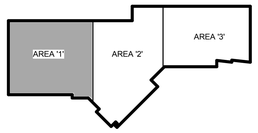
GENERAL FINISH FLOOR PLAN NOTES	
1	SEE FLOOR PLANS FOR INTERIOR ELEVATIONS
2	NOT USED
3	ALL METAL STUD WALLS TO DECK ABOVE, SEE SHEET AE621 FOR WALL TYPES
4	PROVIDE DEFLECTION TRACKS @ ALL STUD WALLS, SEE DETAIL 4/AE804
5	ALL MATERIALS TO BE INSTALLED PER SPECIFIC MANUFACTURER'S INSTALLATION RECOMMENDATIONS
6	ALL EXPOSED METAL TO BE INSTALLED PER SPECIFIC MANUFACTURER'S INSTALLATION RECOMMENDATIONS
7	FLOORING MATERIAL TRANSITIONS TO OCCUR AT CENTER LINE OF DOOR THRESHOLDS, U.N.O.
8	PREPARE FLOORS/WALLS TO RECIEVE FINISH MATERIAL. REFER TO MANUFACTURERS RECOMMENDATIONS FOR SURFACE PREPERATION. NOTIFY ARCHITECT IF CONDITIONS ARE INADEQUATE FOR REQURED INSTALLATION.
9	REFER TO ROOM FINISH SCHEDULE AND MATERIAL LEGEND IN SHEET AE611 FOR MORE INFORMATION
10	SEE AE621 FOR WALL TYPES
11	CONTRACTOR TO PROVIDE SOLID BLOCKING AT ALL CASE WORK, FIXED FURNISHINGS AND EQUIPMENT. COORDINATE WITH ELEVATIONS, SECTIONS AND FURNITURE AND FIXTURE SHEETS AND SPECIFICATIONS. SEE SHEET AE901 FOR TYP. DETAILS
12	PROVIDE CEMENTITIOUS BOARD IN LIEU OF GYPSUM BOARD (BEHIND TILE), IN ROOMS A115, B228, B229, B230 AND B231.
13	WRAP GYP. BD. AT EXPOSED FURRING ENDS U.N.O.

FLOOR FINISH LEGEND

CODE	MATERIAL
CPT-1	CARPET TILE
CPT-2	CARPET TILE
CPT-3	CARPET TILE
CPT-4	CARPET TILE
CPT-5	CARPET TILE
CPT-6	WALK OFF MAT
PSC-1	POLISHED SEALED CONCRETE
SC-1	SEALED CONCRETE
T-2	PORCELAIN TILE
T-8	PORCELAIN TILE
T-10	MOSAIC TILE
SV-1	SHEET VINYL
SV-2	SHEET VINYL
SCF-1	STATIC CONTROL FLOORING
VF-1	VINYL PLANK
WF-1	WOOD FLOORING
TS	TRANSITION STRIP

WALL / BASE FINISH LEGEND:





LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions :

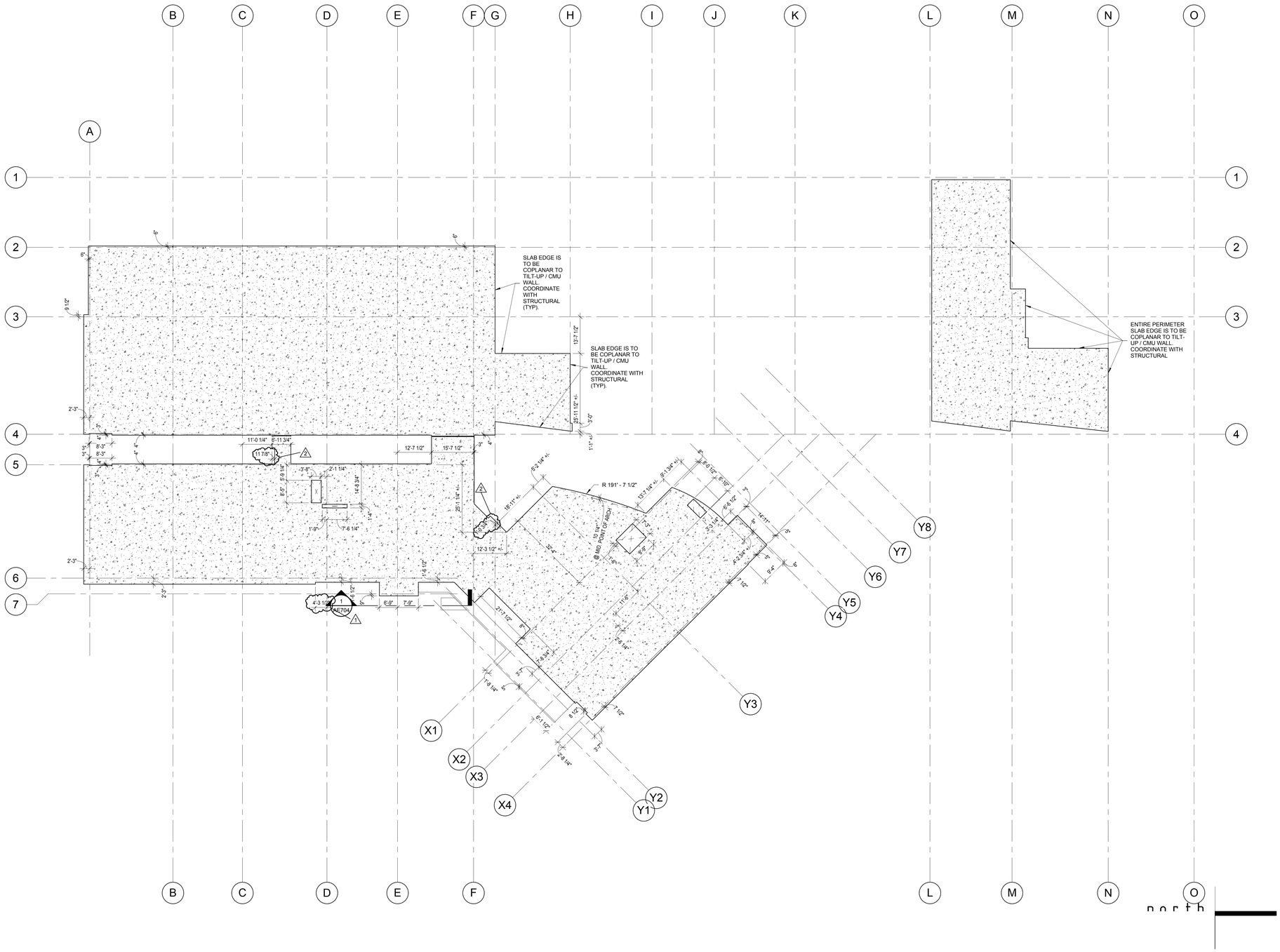
1	Addendum 2	2/10/2012
2	ASI #1	TBD
3	Addendum 3	2/17/2012

Lvl 1 Wall Type/Finish Plan Area '1'

sheet:

AE111

100% Construction Documents



1 Level 2 Slab Edge Plan
1/16" = 1'-0"

SLAB EDGE PLAN GENERAL NOTES

1.	ALL PERIMETER SLAB EDGES ARE COPLANAR TO EXTERIOR FOUNDATION WALL UNLESS OTHERWISE NOTED.
2.	ALL SLAB EDGES ADJACENT TO TILT UP CONC. ARE TO BE COORDINATED BY GENERAL CONTRACTOR ON SITE.
3.	NOT ALL PENETRATIONS SHOWN - SEE MECH. PLUMB. & ELEC. SHEETS. FIELD VERIFY ALL REQ. PENETRATIONS. SEE - STRUCTURAL FOR REINFORCING REQ.

SLAB EDGE PLAN GENERAL NOTES

TYPE A	*TYP. CONCRETE SLAB
TYPE B	*TYP. CONCRETE SLAB @ SHOP / WORK SPACE
TYPE C	*2" DEPRESSED CONCRETE SLAB
TYPE D	*7" DEPRESSED CONCRETE SLAB
TYPE E	*1" RECESSED CONCRETE SLAB
	*TILT-UP CONCRETE WALL
	*TRENCH DRAIN

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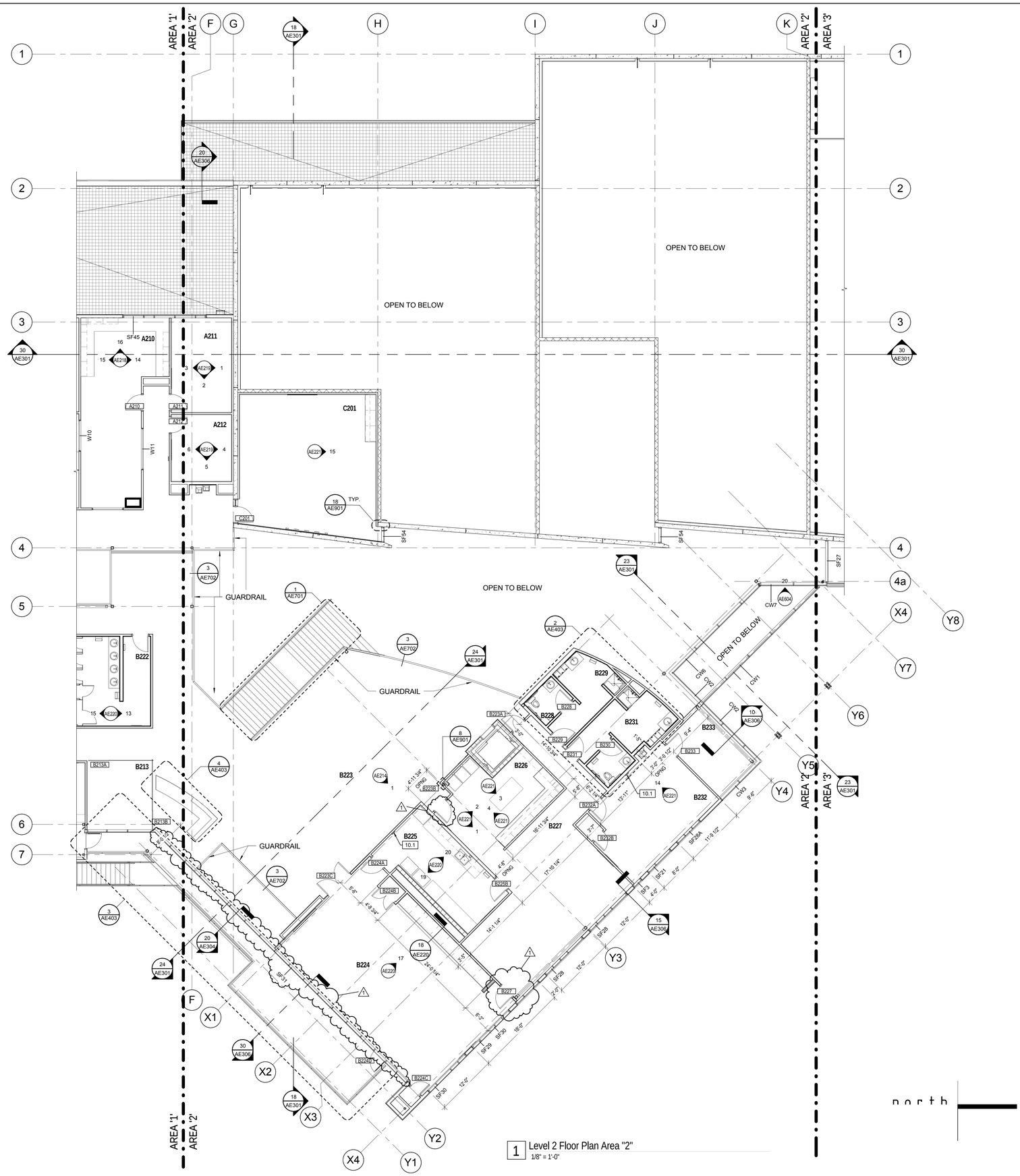
Lvl 2 Slab Edge Plan

sheet:
AE120A

100% Construction Documents

ROOM SCHEDULE LEVEL 2	
Number	Name
A200	CORRIDOR
A201	BT LAB
A202	TESTING
A203	BT OFFICE
A204	USU CLASSROOM
A205	USU CLASSROOM
A206	IT OFFICE
A207	IT CLASSROOM
A208	IT TESTING
A209	IT LAB
A210	SERVER / IT STORAGE
A211	IT ADMIN
A212	IT ASSISTANT
B200	CORRIDOR
B201	DIRECTOR
B202	CURRICULUM DEVELOPER
B203	ASSISTANT
B204	VP INSTRUCTION OFFICE
B205	DIRECTOR
B206	CUSTOM
B207	USU OFFICE
B208	USU OFFICE
B209	DIRECTOR OFFICE / FINANCE
B210	HUMAN RESOURCES
B211	EXECUTIVE CONFERENCE ROOM
B212	PRESIDENT
B213	PRESIDENT ASSISTANT
B214	MARKETING / OFFICE
B215	STORAGE RECORDS
B216	OPEN OFFICE 2-3 PPL
B217	ELECTRICAL
B218	PRINT / STOR.
B219	JAN.
B220	STOR.
B221	MEN
B222	WOMEN
B223	RECEPTION / WAITING
B224	BOARDROOM
B225	KITCHEN
B226	WORKROOM
B227	FACULTY/ BREAK
B228	TOILET
B229	LOCKER/SHOWER
B230	TOILET
B231	LOCKER/SHOWER
B232	EXERCISE
B233	WELLNESS
C201	CDL CLASSROOM
C202	PUMP
C203	BOILER
C204	IT WORKROOM
C205	STORAGE
C206	CORRIDOR
C208	MEZZANINE STORAGE
C209	STORAGE



1 Level 2 Floor Plan Area "2"
1/8" = 1'-0"

GENERAL NOTES

1	SEE SHEET AE601 FOR DOOR AND WINDOW SCHEDULE.
2	SEE SHEET AE602, AE603 AND AE603 FOR ALL GLAZING ELEVATIONS. SEE AE605 FRAME TYPES AND DOOR TYPES
3	GUARDRAIL AND SUPPORTS TO BE SYMMETRICAL ACROSS FLOOR OPENINGS AND ADJACENT LIKE ELEMENTS TYP. INITIAL SUPPORTS TO BE 6" FROM START AND END OF GUARD RAIL RUNS TYP. MAX SPACING BETWEEN SUPPORTS TO BE 5'-0" TYP. NOT ALL GUARDRAILS ARE ELEVATED. COORDINATE ALL GUARDRAILS AND SUPPORTS WITH GUARDRAIL DETAIL SHEETS.
4	ALL INTERIOR EXPOSED STEEL TO BE PAINTED, SEE FINISH SCHEDULE. AREAS 2 & 3, WEST OF GRID 4 AND SHOP SPACES ARE EXCLUDED U.N.O.
5	PROVIDE SEMI-RIGID JOINT SEALER @ ALL INTERIOR CONCRETE JOINTS WEST OF GRID 4 AND NORTH OF GRID G
6	CONTRACTOR TO PROVIDE SOLID BLOCKING AT ALL CASE WORK, FIXED FURNISHINGS AND EQUIPMENT. COORDINATE WITH ELEVATIONS, SECTIONS AND FURNITURE AND FIXTURE SHEETS AND SPECIFICATIONS. SEE SHEET AE901 FOR TYPICAL DETAILS

KEYNOTE LEGEND

10.1	SEMI-RECESSED FIRE EXTINGUISHER CABINET

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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METHOD STUDIO INC.
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salt lake city, utah 84101
phone:(801) 532-4422

consultants:

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

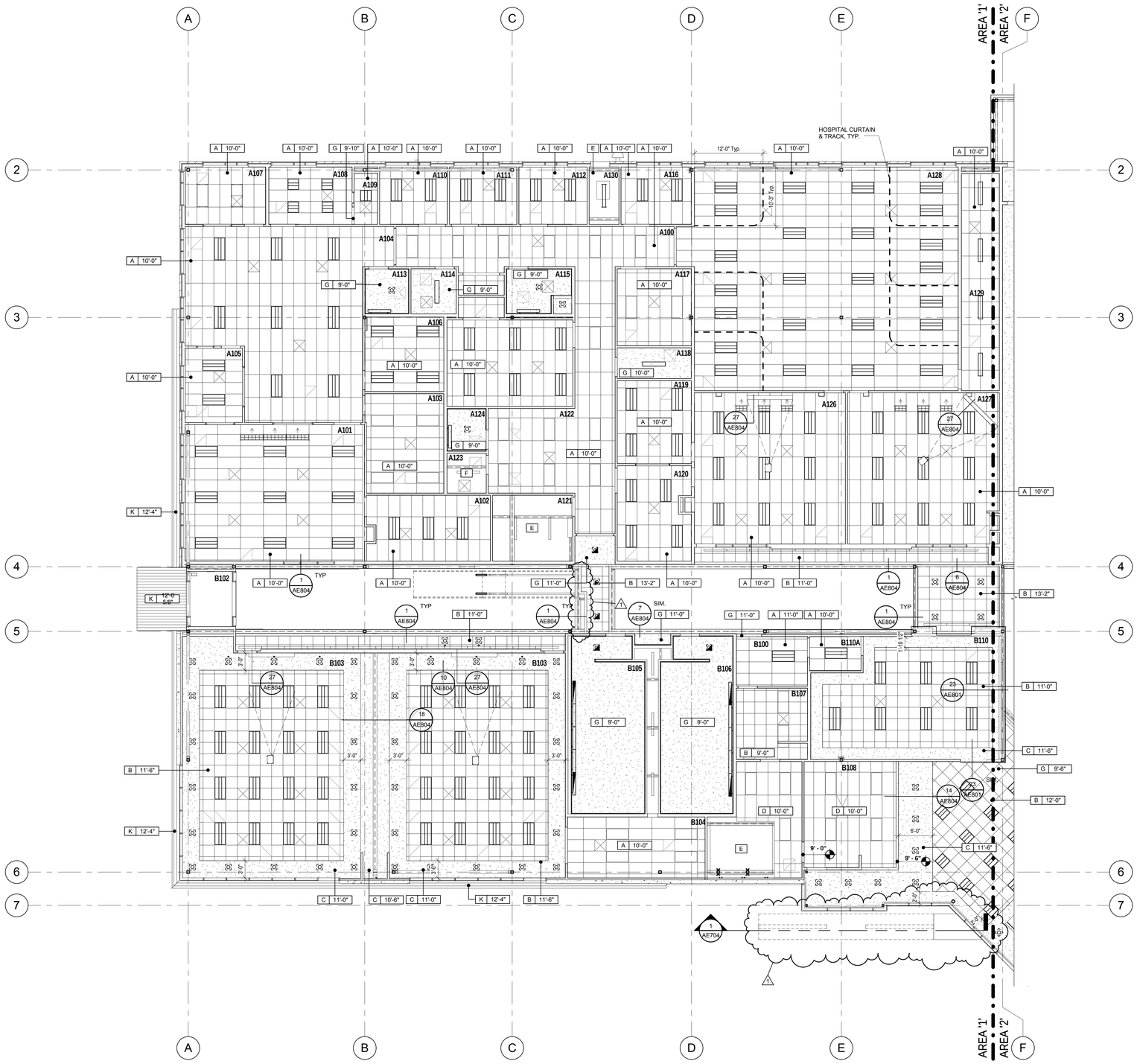
revisions:
1 Addendum 3 2/17/2012

Lvl 2 Floor Plan Area '2'

sheet:
AE122

100% Construction Documents

ROOM SCHEDULE LEVEL _1	
Number	Name
A100	CORRIDOR
A101	MEDICAL ASSISTING CLASSROOM
A102	TESTING
A103	STORAGE
A104	MEDICAL ASSISTING LAB
A104A	LAB RECEPTION
A105	MA Office
A106	SURGERY
A107	EXAM
A108	XRAY
A109	X-RAY CONTROL
A110	OFFICE
A111	OFFICE
A112	OFFICE
A113	TOILET
A114	LAUNDRY
A115	INSTRUCTION TOILET
A116	OFFICE
A117	CNA STORAGE
A118	JANITOR
A119	CONTROL
A120	SIM ROOM
A121	ELECTRICAL
A122	LOCKER ROOM
A123	STORAGE
A124	TOILET
A125	CPR
A126	LPN/CNA CLASSROOM
A127	RN CLASSROOM
A128	LPN/RN/CNA LAB SUITE
A129	STORAGE
A130	FIRE RISER ROOM
B100	CORRIDOR
B101	LOBBY
B101A	VESTIBULE
B102	VESTIBULE
B103	MULTIPURPOSE ROOM
B104	STORAGE
B105	WOMEN
B106	MEN
B107	KITCHEN STORAGE
B108	KITCHEN
B109	WALK-IN COOLER
B110	BOOKSTORE
B110A	BOOKSTORE STORAGE
B111	CAFETERIA
B112	MEDIA
B113	PLACEMENT
B114	PLACEMENT OFFICE
B115	OFFICE
B116	ASSESSMENT
B117	ELEV. EQ.
B118	ELEVATOR
B119	RECEPTION
B120	ENROLLMENT
B120A	CORRIDOR
B121	ENROLMENT WAITING
B122	COUNSELOR
B123	SIS OFFICE
B124	STORAGE / STUDENT RECORDS
B125	SPARE OFFICE
B126	SS VP
C100	CORRIDOR
C100A	CORRIDOR
C100B	COORIDOR
C100C	VESTIBULE
C100D	VESTIBULE
C101	SHELLED LAB
C102	SHELLED CLASSROOM
C102A	RECEIVING
C103	CONSTRUCTION TECHNOLOGY LAB
C103A	VESTIBULE
C104	CONSTRUCTION TECHNOLOGY CLASSROOM
C105	CT STORAGE
C106	CT OFFICE
C107	WELDING LAB
C108	GRINDING
C109	MAIN ELECTRICAL
C110	SUPPLY ROOM
C111	TOOL STORAGE
C112	DIESEL CLASSROOM
C113	DIESEL OFFICE
C114	WELDING CLASSROOM
C115	WELDING OFFICE
C116	WL STORAGE
C117	LOCKER
C118	TOILET
C119	LOCKER
C120	TOILET
C121	CE & R LAB
C122	CE & R STORAGE
C123	CE & R OFFICE
C124	CE & R CLASSROOM

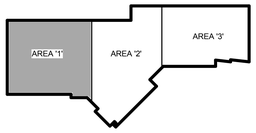


north

1 Level 1 RCP Area '1'
1/8" = 1'-0"

GENERAL CEILING PLAN NOTES -	
1	CEILING GRID SHOWN IS ONLY A GRAPHIC REPRESENTATION OF CEILING. CONTRACTOR SHALL VERIFY ACTUAL GRID LAYOUT/LOCATION IN THE FIELD.
2	VERIFY ALL LIGHT, SMOKE DTECTORS AND EXIT SIGN LOCATIONS WITH ELECTRICAL DRAWINGS.
3	VERIFY ALL MECHANICAL DUCT, GRILL, DIFFUSER AND VENT LOCATIONS WITH MECHANICAL DRAWINGS.
4	COORDINATE FIXTURE LAYOUT AND QUANTITY WITH ELECTRICAL PLANS. REFER TO MECHANICAL DRAWINGS FOR DIFFUSER LOCATION.
5	SEE SHEET AE806 FOR TYP. FIXTURE SUPPORT, CLIP ANGLE & SEISMIC BRACING DETAILS.
6	MAKE FACTORY EDGE WHERE TILE IS CUT TYP. FOR ALL LAY IN ACOUSTICAL TILE WITH TEGULAR EDGE

RCP PLAN LEGEND	
TYPE A	2' x 4' LAY-IN ACOUSTICAL TILE IN SUSPENDED GRID (FINISH ACT-2)
TYPE B	2' x 2' LAY-IN ACOUSTICAL TILE IN SUSPENDED GRID (FINISH ACT-1)
TYPE C	5/8" GYPSUM BOARD SOFFIT (PAINTED) PROVIDE MTL. STUD WALL FROM STRUCTURE ABOVE OR ADJACENT WALLS, DIAGONAL BRACING AS NECESSARY
TYPE D	2' x 4' FRP CEILING IN SUSPENDED GRID (FINISH ACT-4)
TYPE E	EXPOSED STRUCTURE
TYPE F	EXPOSED STRUCTURE (PAINTED)
TYPE G	5/8" GYPSUM BOARD (PAINTED) 0N METAL SUSPENSION SYSTEM
TYPE H	WOOD VENEER ON GYP. BD.
TYPE J	METAL SOFFIT
TYPE K	EXTERIOR T & G
TYPE L	30"X30" LAY-IN ACOUSTICAL TILE IN SUSPENDED GRID (FINISH ACT-3)



LICENSED ARCHITECT
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DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions:
1 Addendum 3 2/17/2012

Lvl 1 Reflected Ceiling Plan 1

sheet:
AE151

100% Construction Documents

ROOM SCHEDULE LEVEL _1	
Number	Name
A100	CORRIDOR
A101	MEDICAL ASSISTING CLASSROOM
A102	TESTING
A103	STORAGE
A104	MEDICAL ASSISTING LAB
A104A	LAB RECEPTION
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A115	INSTRUCTION TOILET
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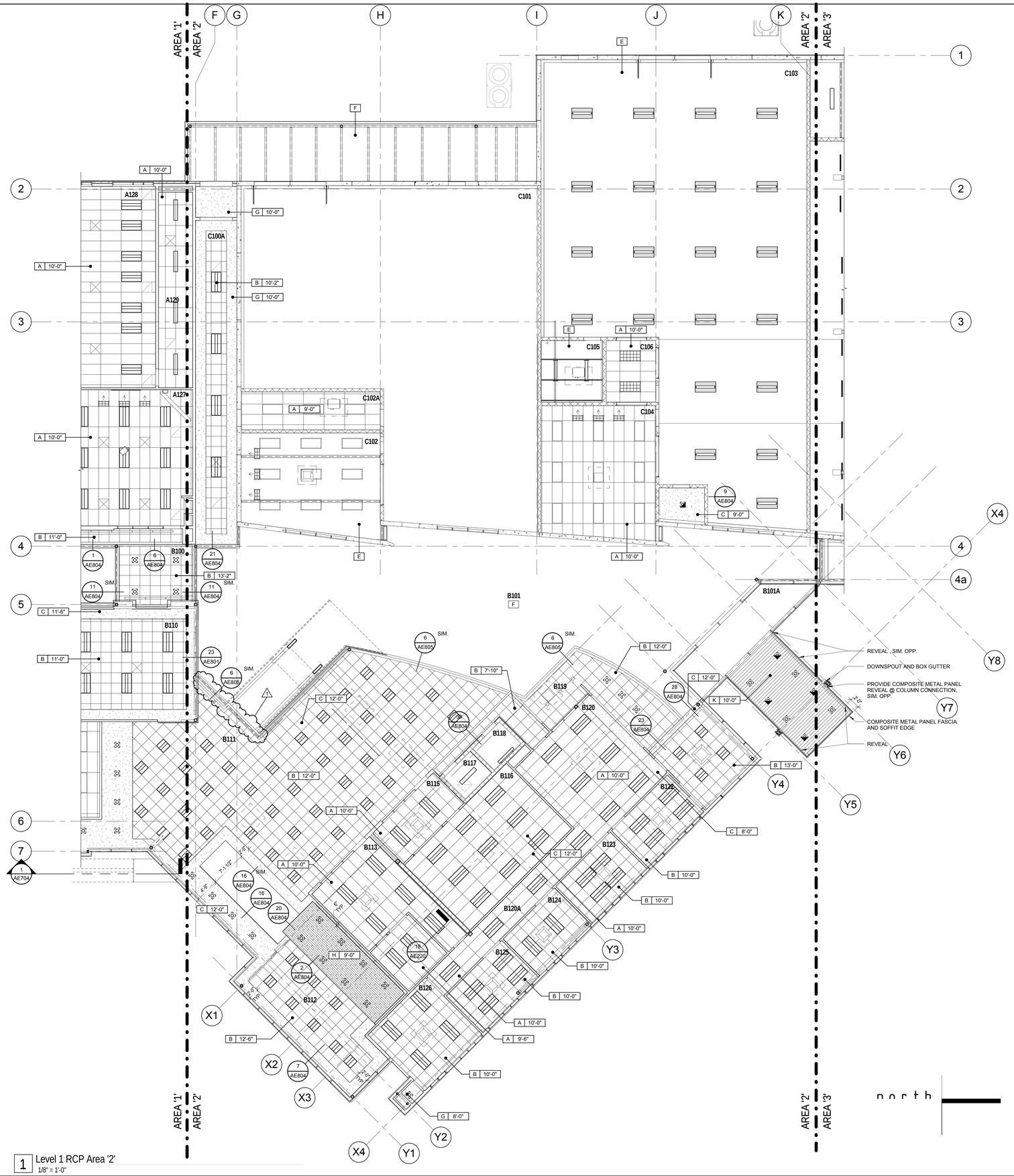

1 Level 1 RCP Area '2'
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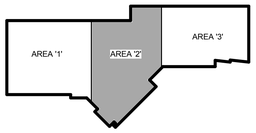

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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DFCM PROJECT #11064280

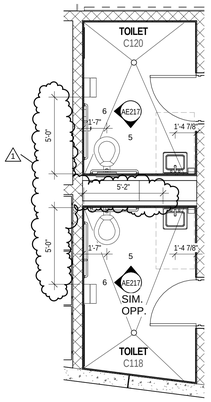
project#: 11.0420
date: 1/20/2012

revisions :
1 Addendum 3 2/17/2012

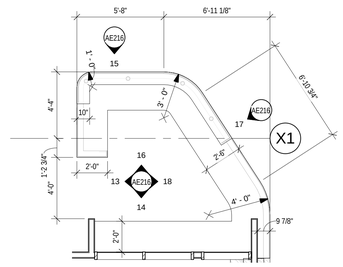
Lvl 1 Reflected Ceiling Plan 2

sheet:
AE152

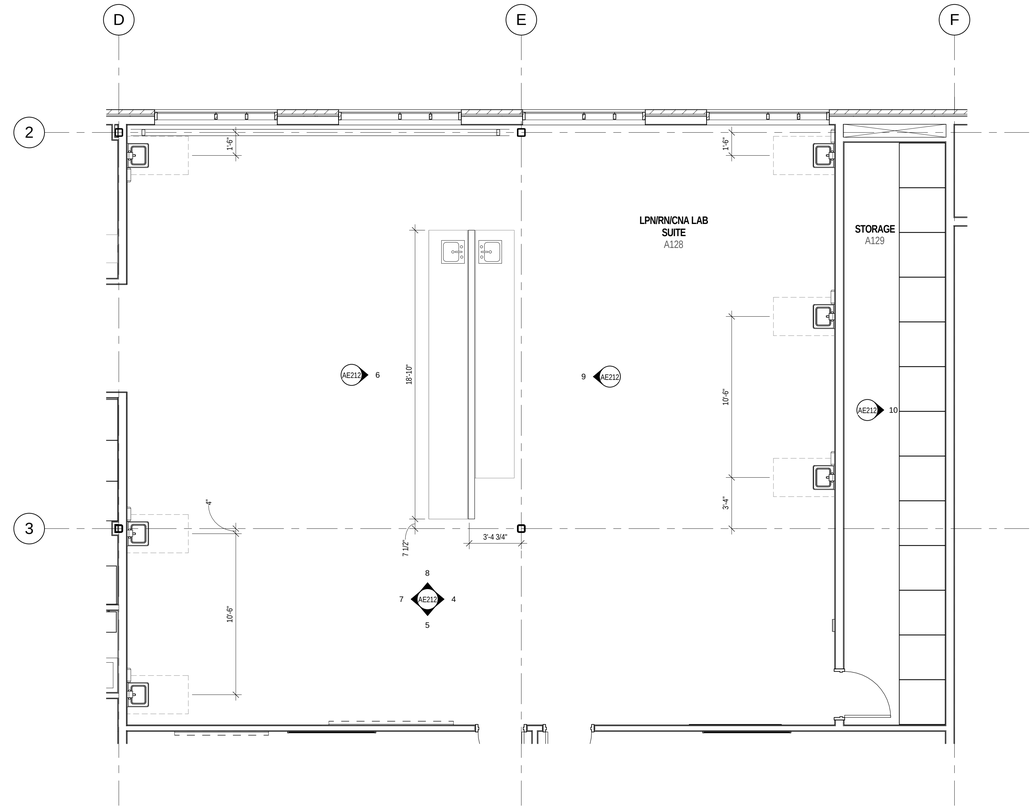
100% Construction Documents



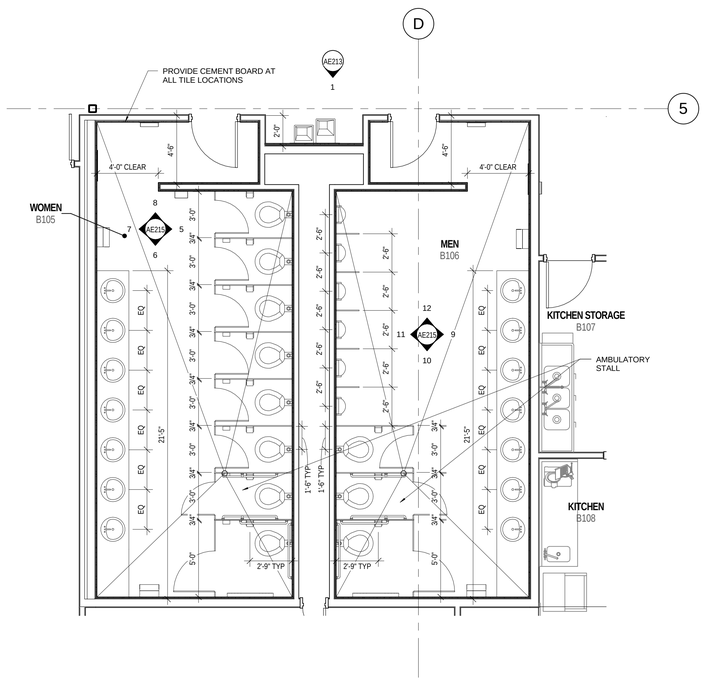
8 C118/C120 Toilet Enlarged Plan
1/4" = 1'-0"



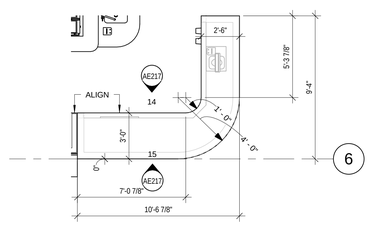
7 B119 Reception Enlarged Plan
1/4" = 1'-0"



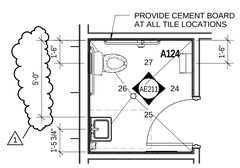
5 A128 LPN/RN/CNA Lab Suite Enlarged Plan
1/4" = 1'-0"



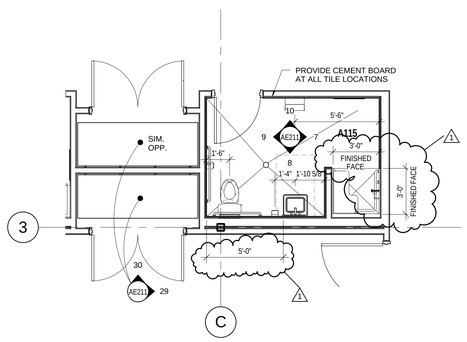
6 B105-B106 Women / Men Enlarged Plan
1/4" = 1'-0"



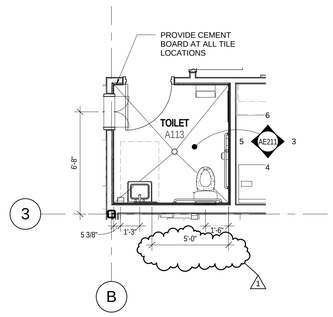
9 Kitchen Service Counter Enlarged Plan
1/4" = 1'-0"



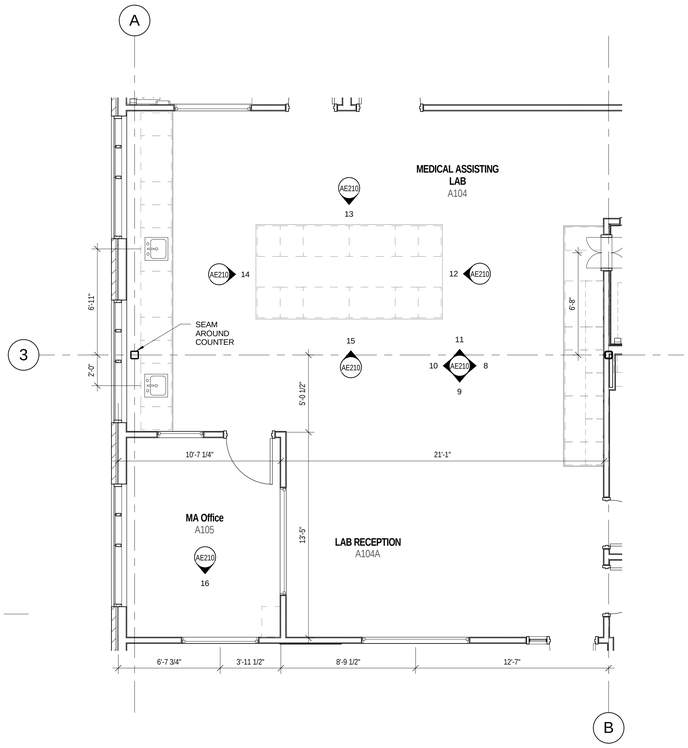
4 A124 Toilet Enlarged Plan
1/4" = 1'-0"



3 A115 Instruction Toilet Enlarged Plan
1/4" = 1'-0"



2 A113 Toilet Enlarged Plan
1/4" = 1'-0"



1 A104 Medical Assisting Lab Enlarged Plan
1/4" = 1'-0"

GENERAL ENLARGED FLOOR PLAN NOTES

1	SEE 1/AE901 FOR TYPCIAL MOUNTING HEIGHTS

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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Lvl 1 Enlarged Floor Plans

sheet:
AE401

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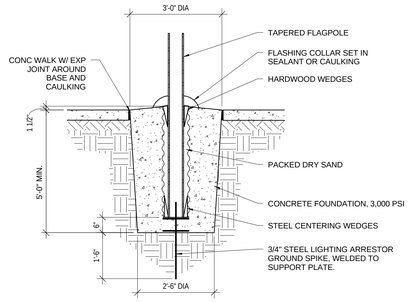
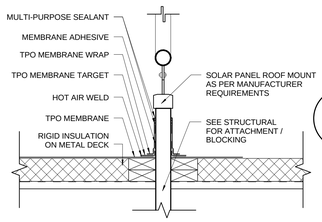
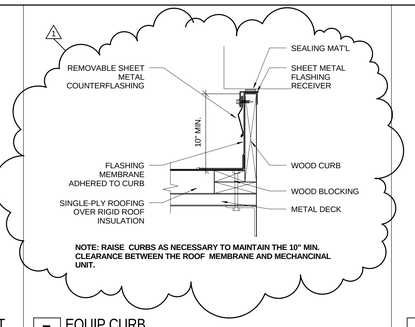


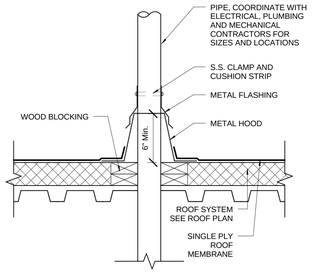
12 FLAG POLE DETAIL
1/2" = 1'-0"



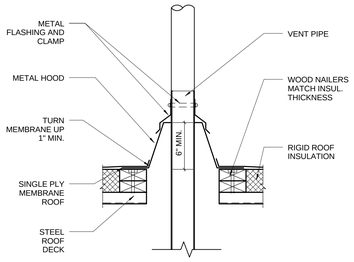
9 PHOTOVOLTAIC STAND TO ROOF ATTACHMENT
1 1/2" = 1'-0"



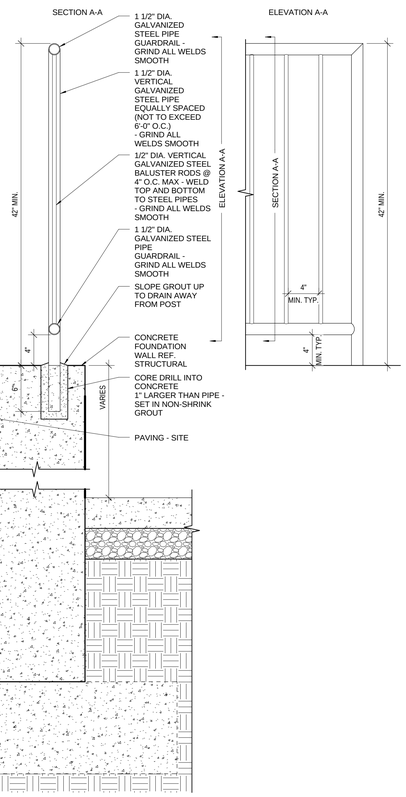
7 EQUIP CURB
1 1/2" = 1'-0"



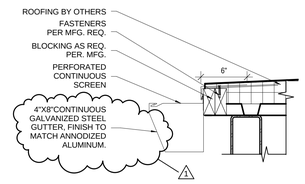
5 DETAIL
1 1/2" = 1'-0"



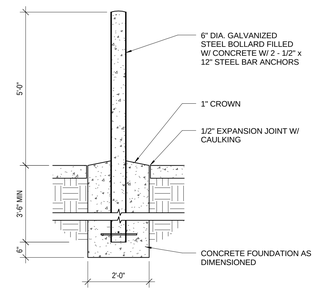
1 WARM PIPE VENT DETAIL
1 1/2" = 1'-0"



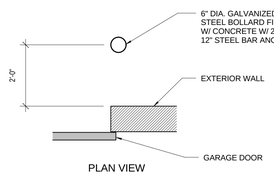
13 LOADING DOCK SECTION
1 1/2" = 1'-0"



10 GUTTER DETAIL
1 1/2" = 1'-0"

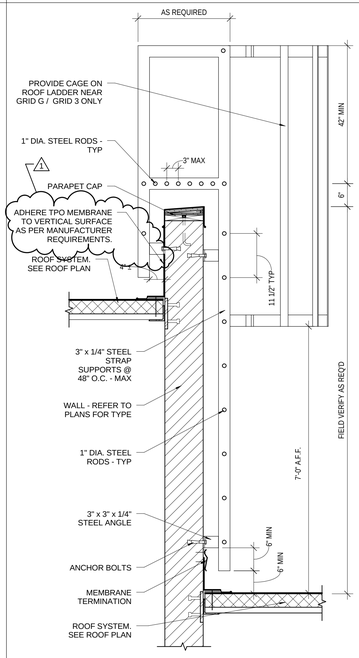


SECTION VIEW

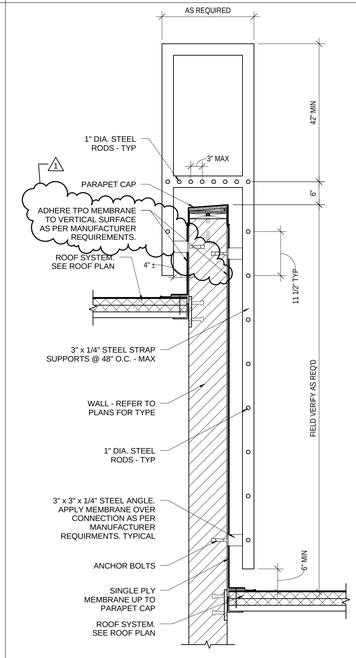


PLAN VIEW

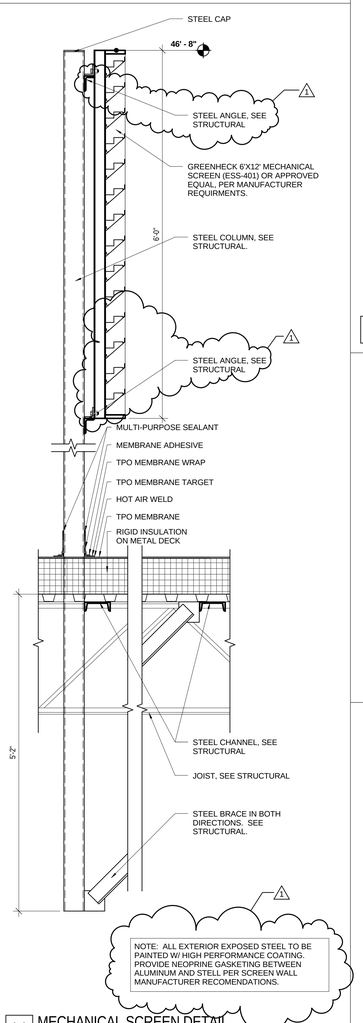
8 SITE BOLLARD DETAIL
1/2" = 1'-0"



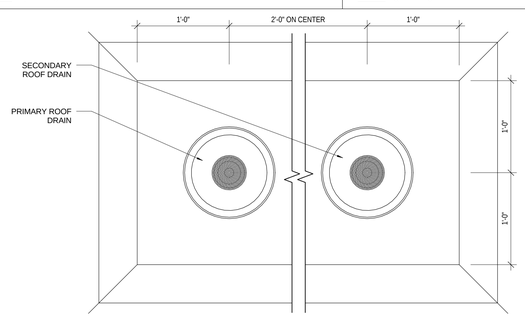
6 ROOF LADDER W/ MEMBRANE TERMINATIONS
3/4" = 1'-0"

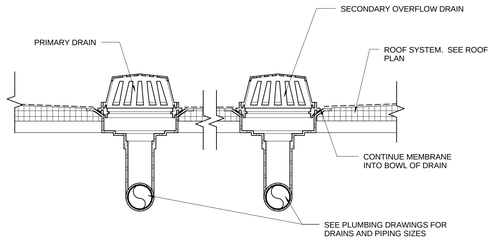


2 ROOF LADDER - MEMBRANE TO PARAPET CAP
3/4" = 1'-0"

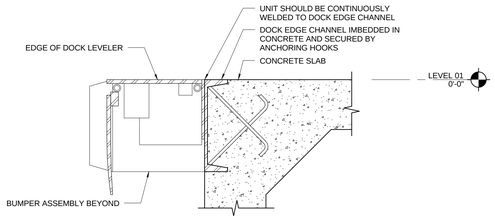


11 MECHANICAL SCREEN DETAIL
1" = 1'-0"

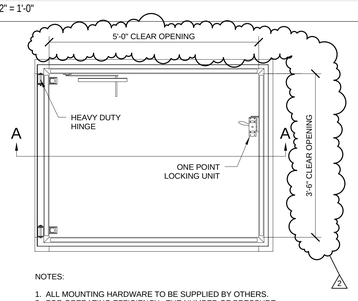




3 ROOF DRAIN DETAIL
1 1/2" = 1'-0"

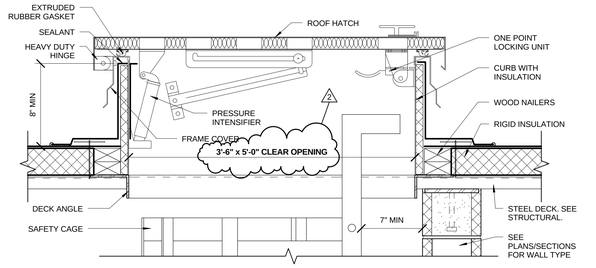


14 EDGE OF DOCK LEVELER DETAIL
1 1/2" = 1'-0"



NOTES:

1. ALL MOUNTING HARDWARE TO BE SUPPLIED BY OTHERS.
2. FOR OPERATING EFFICIENCY, THE NUMBER OF PRESSURE INTENSIFIERS VARIES WITH THE SIZE OF THE HATCH.



SECTION A-A

4 ROOF HATCH PLAN/SECTION
1 1/2" = 1'-0"

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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METHOD STUDIO INC.
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salt lake city, utah 84101
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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions:

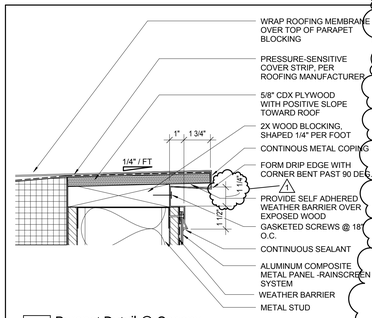
1	Addendum 2	2/10/2012
2	Addendum 3	2/17/2012

Exterior Details

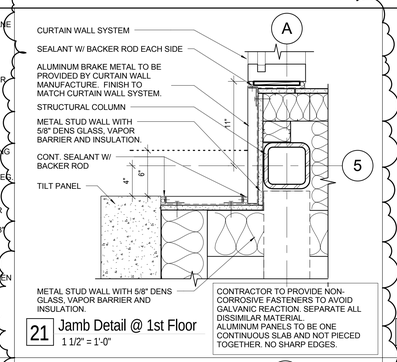
sheet:

AE502

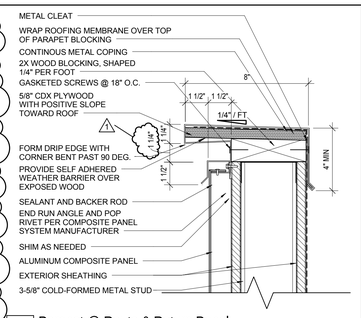
100% Construction Documents



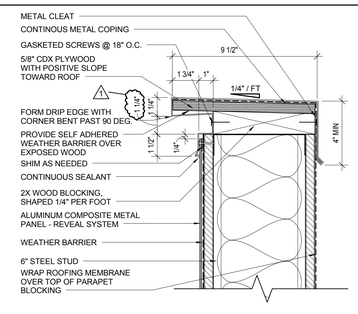
26 Parapet Detail @ Canopy
3" = 1'-0"



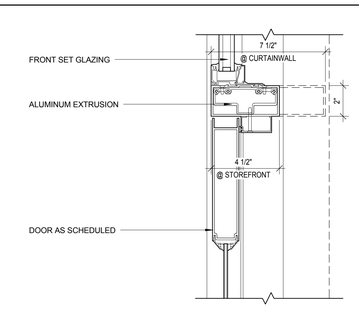
21 Jamb Detail @ 1st Floor
1 1/2" = 1'-0"



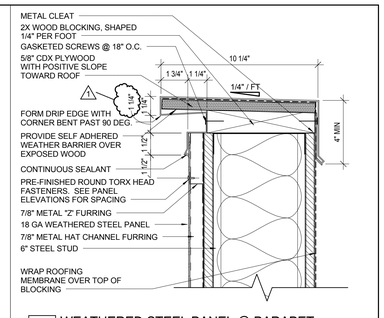
16 Parapet @ Route & Return Panel
3" = 1'-0"



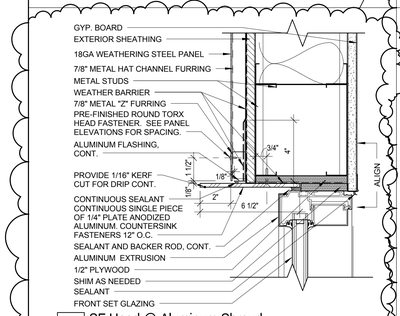
11 Metal Panel- Reveal System @ Parapet
3" = 1'-0"



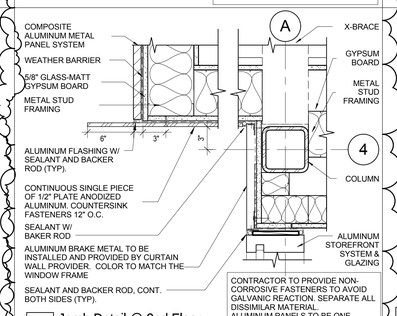
6 SF/CW Door Head/Jamb
3" = 1'-0"



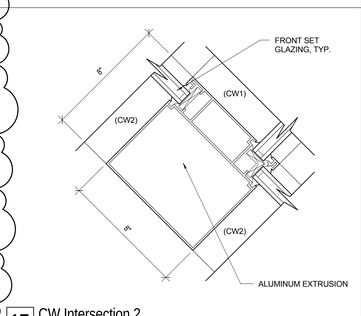
1 WEATHERED STEEL PANEL @ PARAPET
3" = 1'-0"



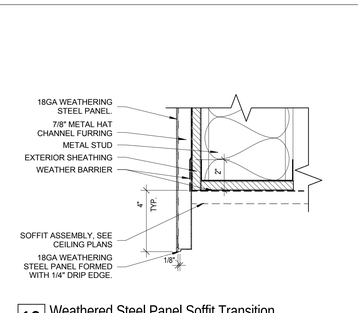
27 SF Head @ Aluminum Shroud
3" = 1'-0"



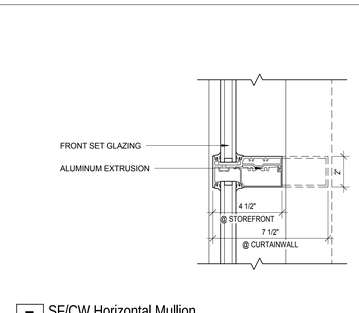
22 Jamb Detail @ 2nd Floor
1 1/2" = 1'-0"



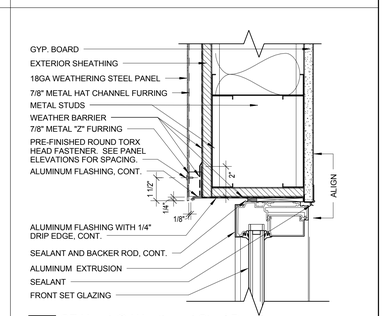
17 CW Intersection 2
3" = 1'-0"



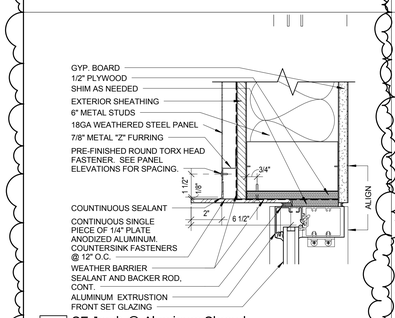
12 Weathered Steel Panel Soffit Transition
3" = 1'-0"



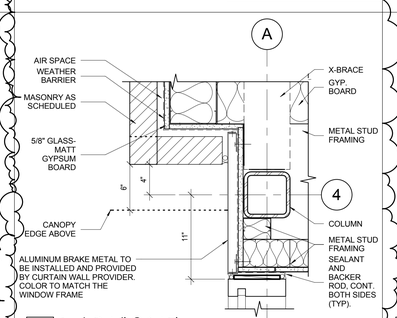
7 SF/CW Horizontal Mullion
3" = 1'-0"



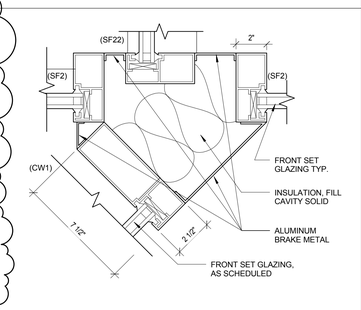
2 SF Head @ Weathered Steel Panel
3" = 1'-0"



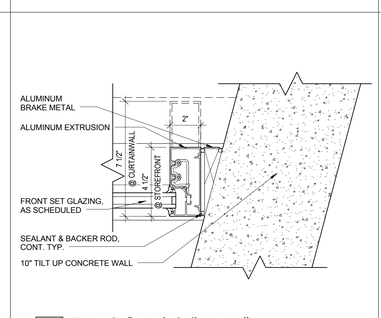
28 SF Jamb @ Aluminum Shroud
3" = 1'-0"



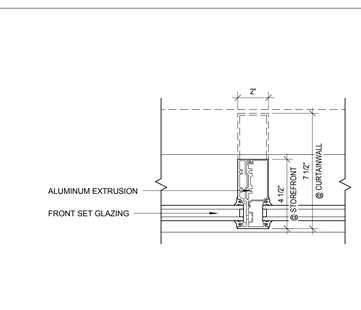
23 Jamb Detail @ 1st Floor
1 1/2" = 1'-0"



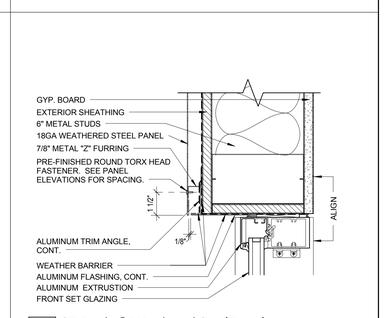
18 CW/SF Intersection
3" = 1'-0"



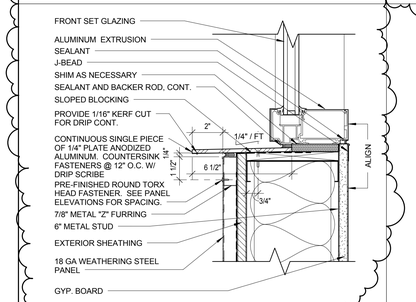
13 SF Jamb @ Angled Tilt Up Wall
3" = 1'-0"



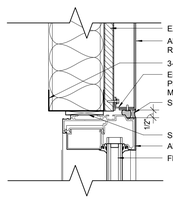
8 SF/CW Vertical Mullion - Full
3" = 1'-0"



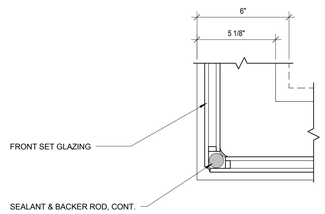
3 SF Jamb @ Weathered Steel Panel
3" = 1'-0"



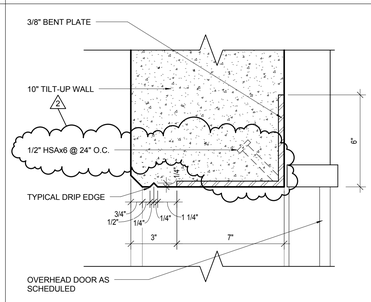
29 SF Sill @ Aluminum Shroud
3" = 1'-0"



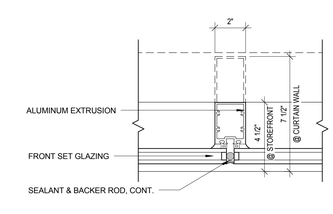
24 SF Head @ Route & Return Panel
3" = 1'-0"



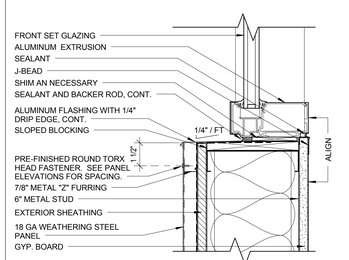
19 SF Butt Glazed Corner
3" = 1'-0"



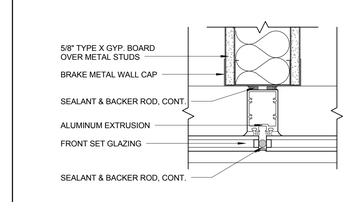
14 Bent Plate Frame - Head
3" = 1'-0"



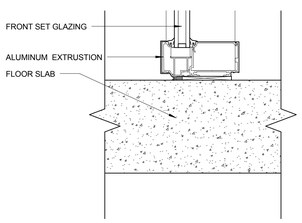
9 SF/CW Vertical Mullion - Front Set
3" = 1'-0"



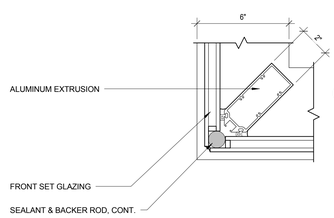
4 SF Sill @ Weathered Steel Panel
3" = 1'-0"



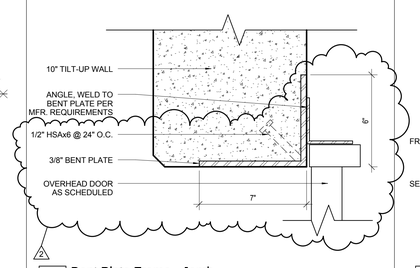
30 SF Wall/Mullion Intersection
3" = 1'-0"



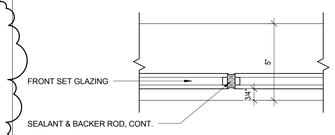
25 SF Sill @ Int. Floor
3" = 1'-0"



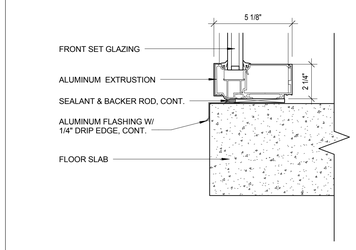
20 SF Front Set Corner
3" = 1'-0"



15 Bent Plate Frame - Jamb
3" = 1'-0"



10 SF Butt Glazing
3" = 1'-0"



5 SF Sill @ Ext Floor
3" = 1'-0"

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01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions:
1 Addendum 2 2/10/2012
2 Addendum 3 2/17/2012

Exterior Details

sheet:
AE503

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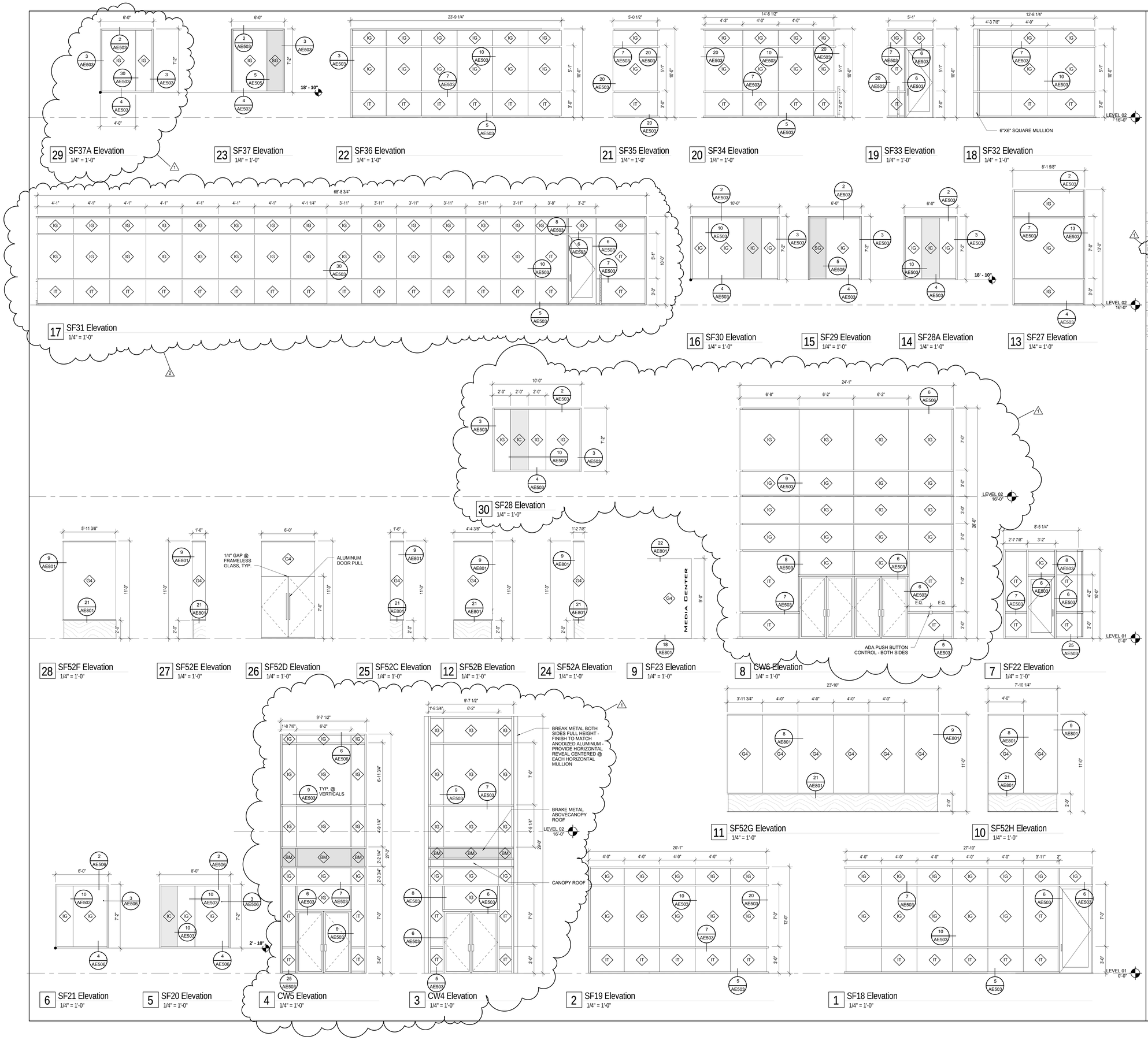

GLAZING SCHEDULE

Type Mark	Type	Comments
BM	Aluminum Infill Panel	
G1	1/4" Clear Glass	
G2	1/4" Clear Tempered Glass	
G3	1/2" Clear	
G4	1/2" Clear Tempered	
IC	1" Dbl Glazed Insulated Unit w/ Low-E color	Colored Low-E Coated Glass
IG	1" Dbl Glazed Insulated Unit	
IT	1" Dbl Glazed Insulated Unit - Tempered	
SG	Spandrel Glass	Insulated 1"
TG	1 3/4" Trpl Glazed Insulated Unit - Tempered	

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revisions:
1 Addendum 2 2/10/2012
2 Addendum 3 2/17/2012

Window Elevations

sheet:

AE603

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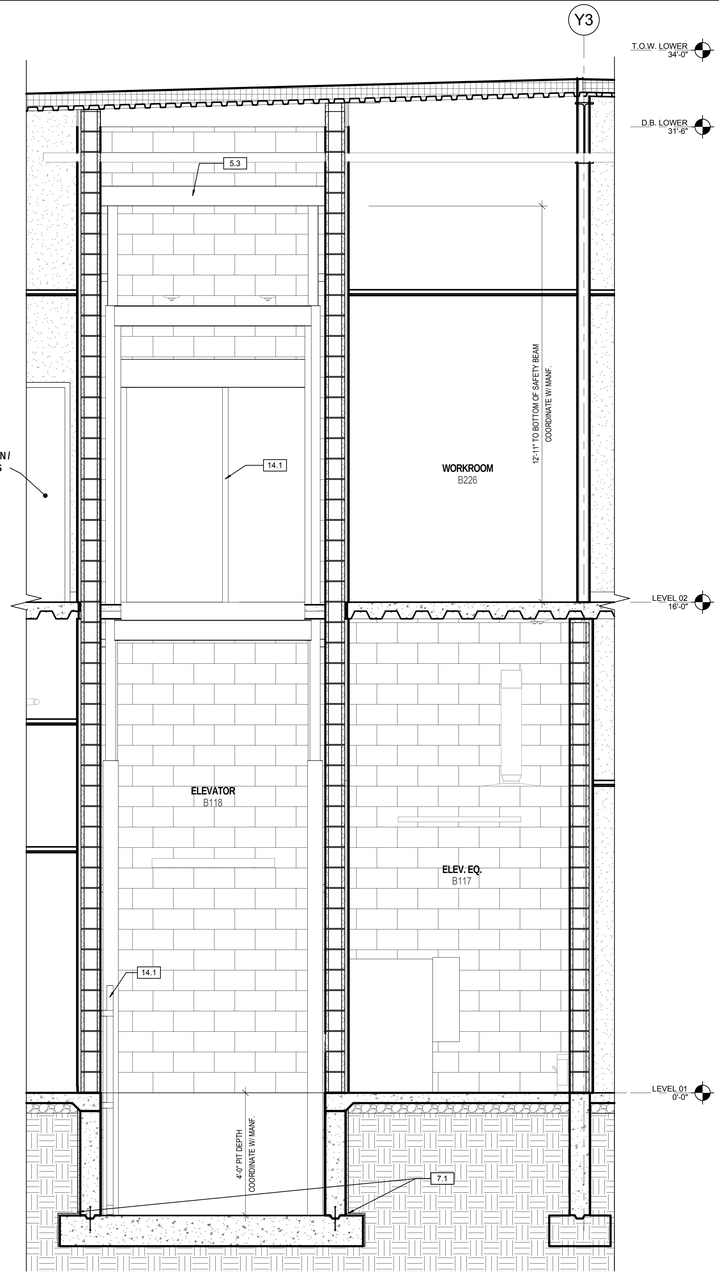
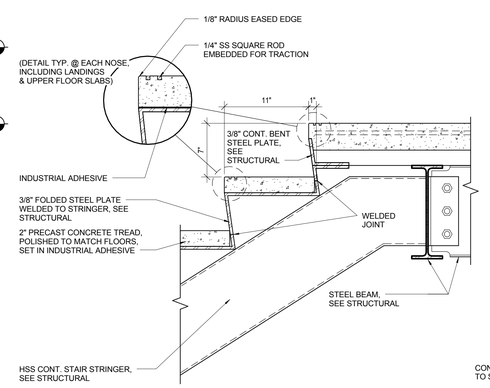
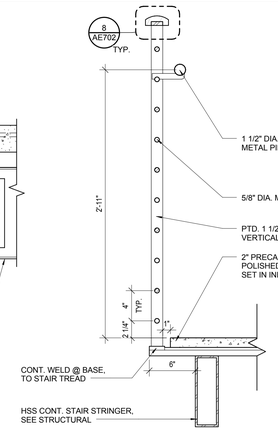


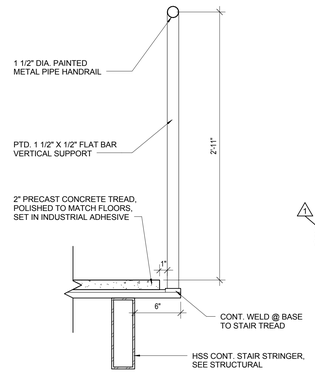
4 Elevator Section
1/2" = 1'-0"



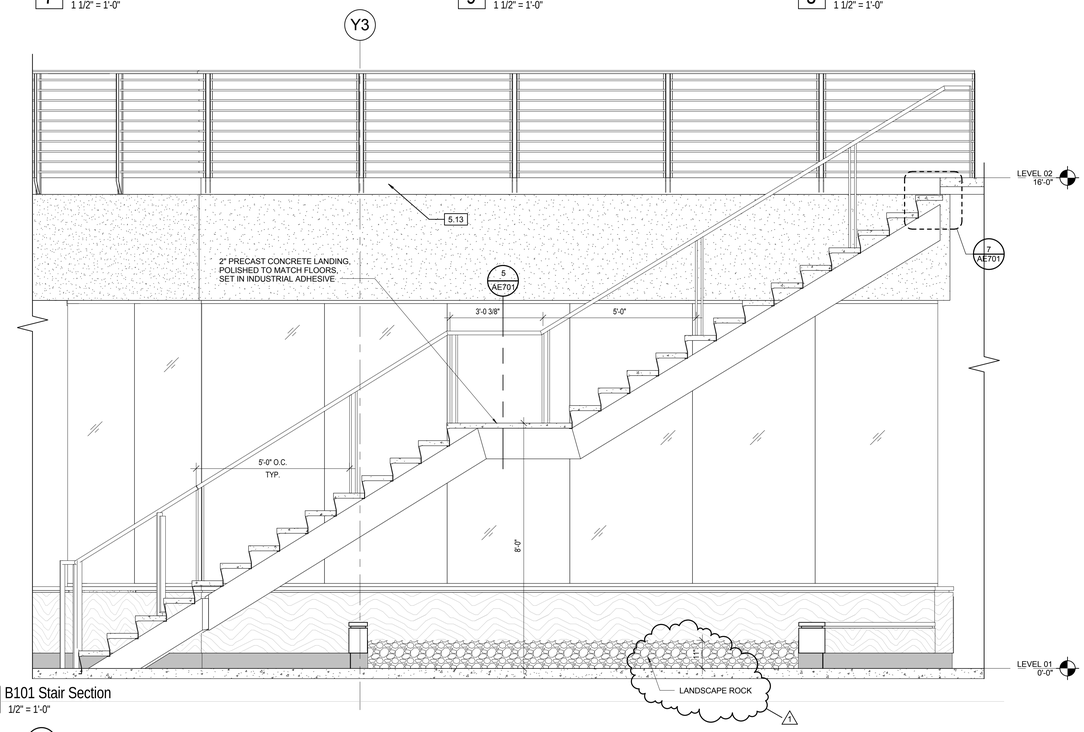
7 B101 Stair Section
1 1/2" = 1'-0"



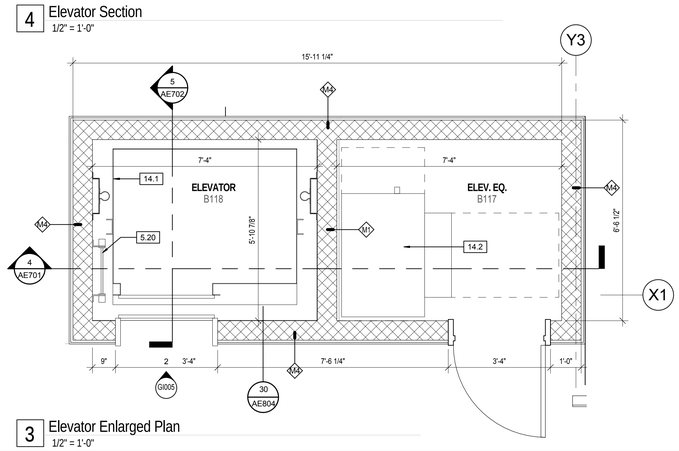
9 Guardrail w/ Handrail Detail
1 1/2" = 1'-0"



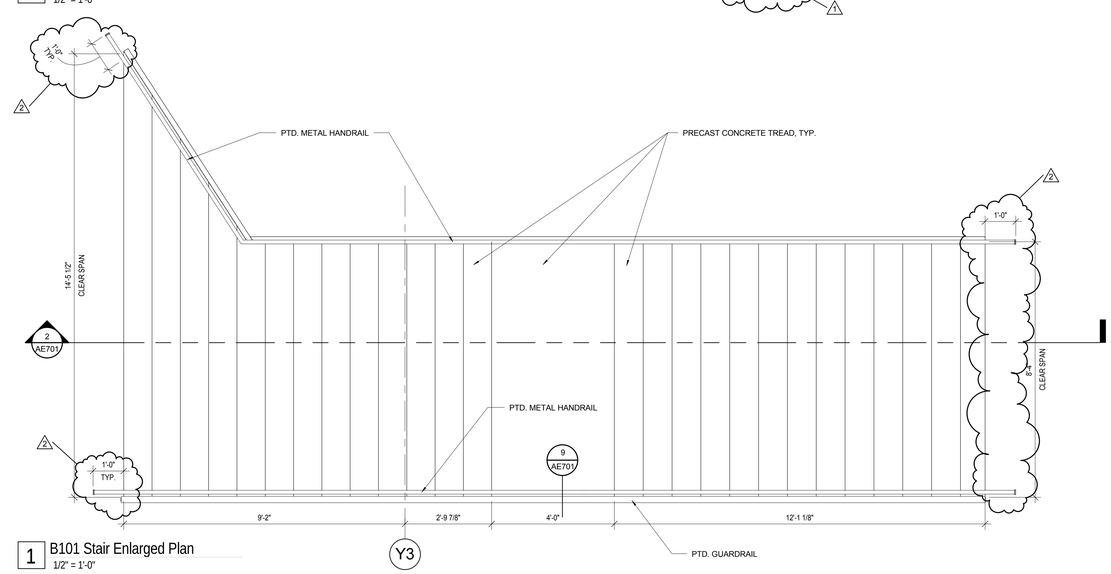
5 Stair Handrail Detail
1 1/2" = 1'-0"



2 B101 Stair Section
1/2" = 1'-0"



3 Elevator Enlarged Plan
1/2" = 1'-0"



1 B101 Stair Enlarged Plan
1/2" = 1'-0"

KEYNOTE LEGEND

5.3	STEEL SAFTEY BEAM AS REQUIRED PER OSHA 1926.502. SEE STRUCTURAL.
5.13	3" METAL DECK, SEE STRUCTURAL
5.20	ELEVATOR PIT LADDER
7.1	SELF ADHERING SHEET WATERPROOFING W/PROTECTION BOARD AND WATER AT FOOTING.
14.1	HYDRAULIC ELEVATOR
14.2	ELEVATOR EQUIPMENT AND CONTROLS

GENERAL ELEVATOR NOTES

1	VERIFY ELEVATOR DIMENSIONS AND ELEVATIONS WITH MANUFACTURER.
2	ALL EXPOSED STEEL TO BE PAINTED U.N.O.

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project:

TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11994280

project#: 11.0420
date: 1/20/2012

revisions:

1	Addendum 2	2/10/2012
2	Addendum 3	2/17/2012

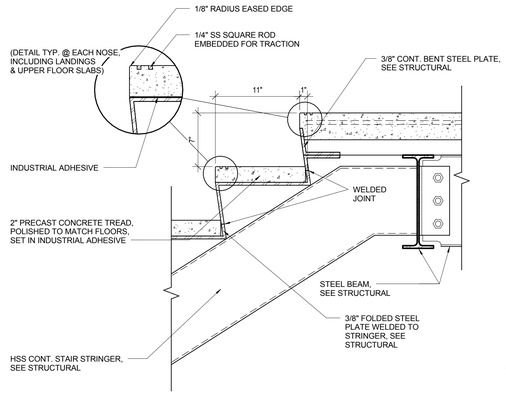
title:

Enlarged Stair/Elevator Plans/Sections

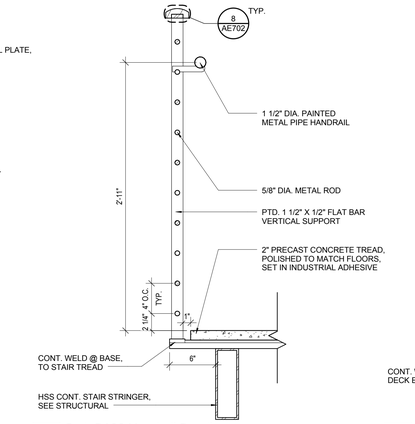
sheet:

AE701

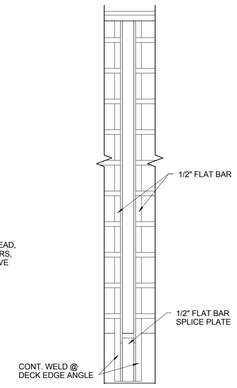
100% Construction Documents



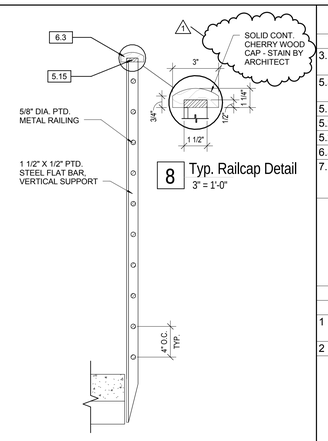
4 Callout of B100 Stair Section
1 1/2" = 1'-0"



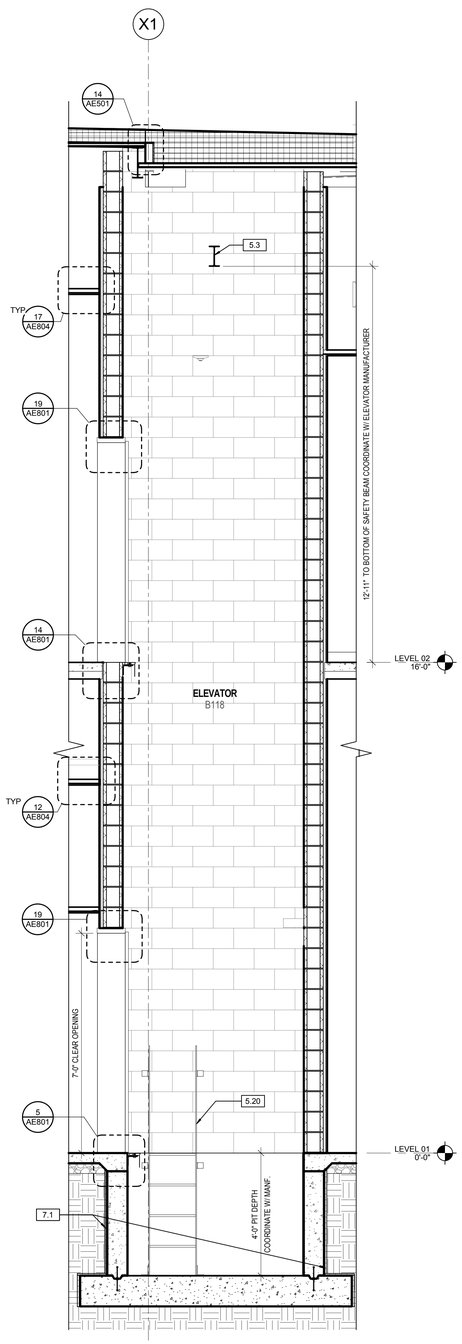
6 Stair B100 Handrail Detail
1 1/2" = 1'-0"



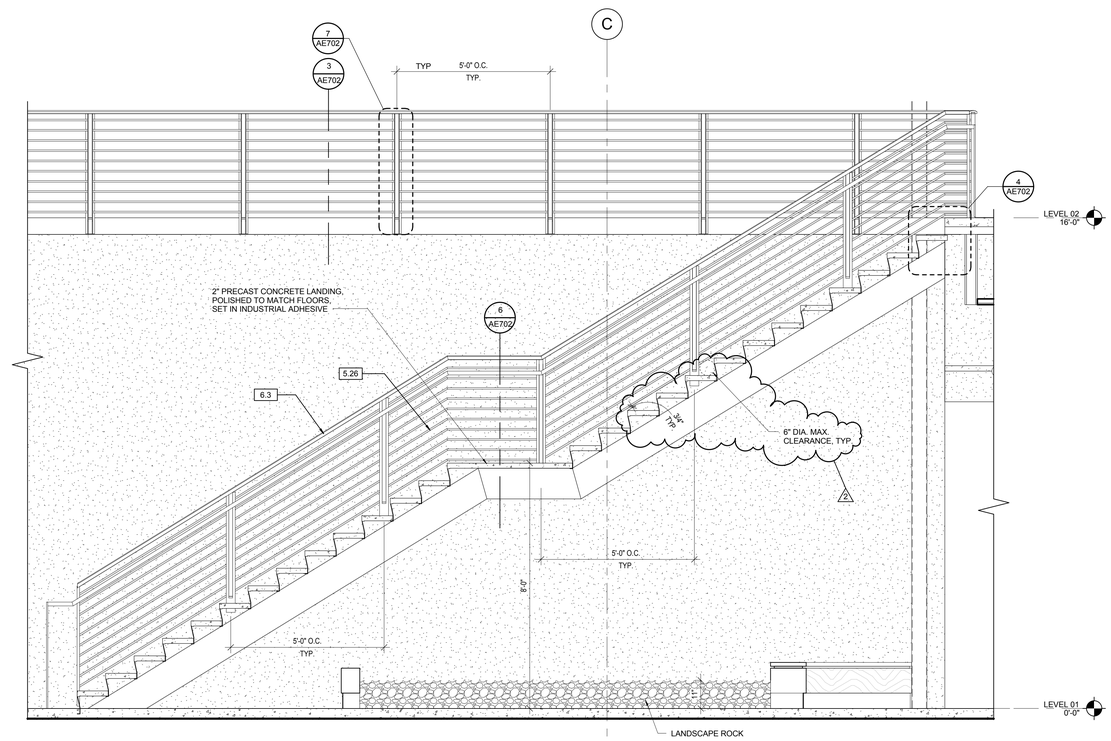
7 Typ. Guardrail Elevation
1 1/2" = 1'-0"



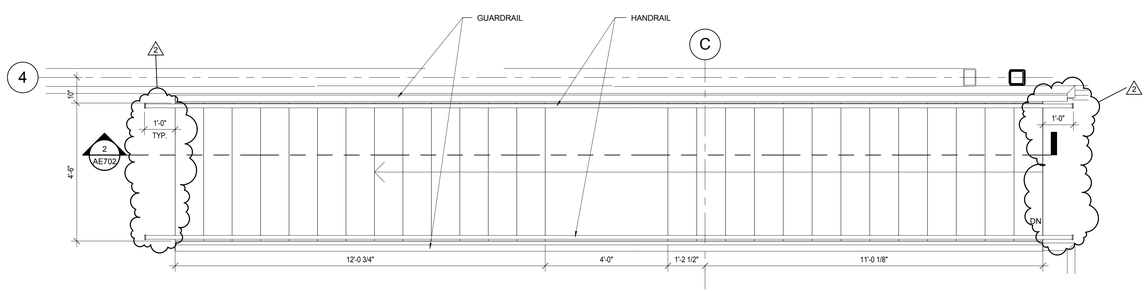
8 Typ. Railcap Detail
3" = 1'-0"



5 Elevator Section 2
1/2" = 1'-0"



2 B100 Stair Section
1/2" = 1'-0"



1 B100 Stair Enlarged Plan
1/2" = 1'-0"

KEYNOTE LEGEND

3.1	CAST-IN-PLACE CONCRETE SLAB, SEE STRUCTURAL
5.3	STEEL SAFTEY BEAM AS REQUIRED PER OSHA 1926.502. SEE STRUCTURAL.
5.15	1.5" X .5" FLAT BAR
5.20	ELEVATOR PIT LADDER
5.26	ORNAMENTAL RAILINGS
6.3	1 1/2" X 2 1/2" RAIL CAP
7.1	SELF ADHERING SHEET WATERPROOFING W/PROTECTION BOARD AND WATER AT FOOTING.

GENERAL ELEVATOR NOTES

1	VERIFY ELEVATOR DIMENSIONS AND ELEVATIONS WITH MANUFACTURER.
2	ALL EXPOSED STEEL TO BE PAINTED U.N.O.

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions:
1 Addendum 2 2/10/2012
2 Addendum 3 2/17/2012

Enlarged Stair Plan/Section

sheet:
AE702

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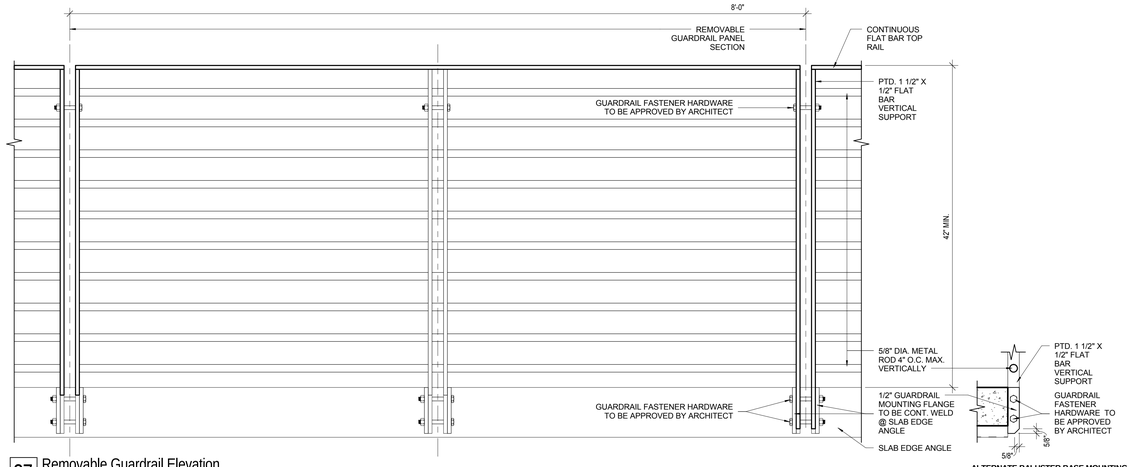
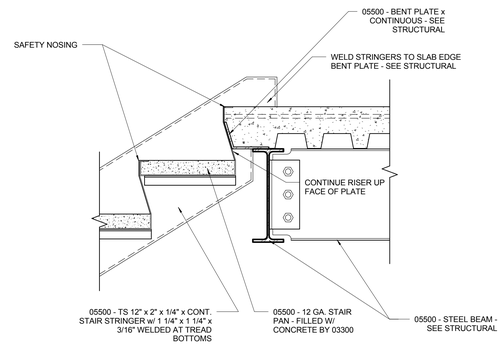
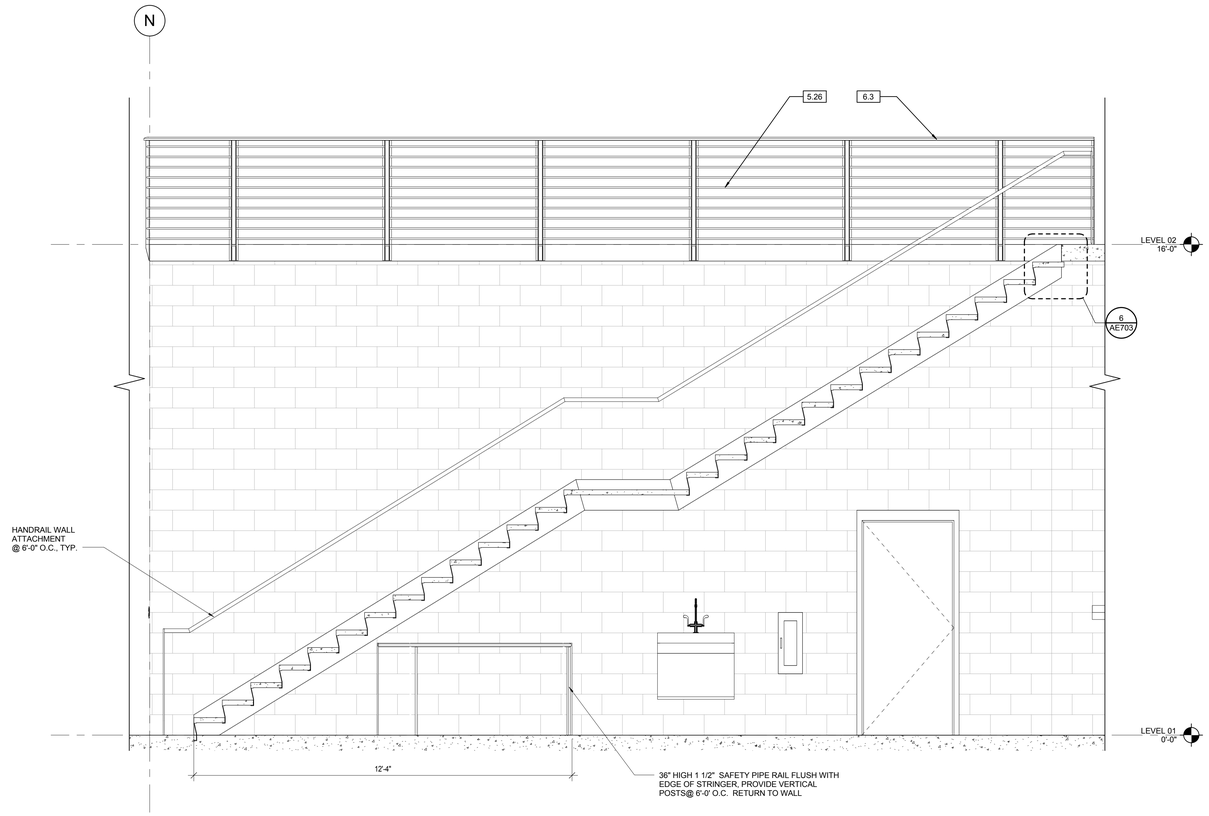


ALTERNATE BALUSTER BASE MOUNTING CONFIGURATION & MOUNTING FLANGE @ REMOVABLE GUARDRAIL PANEL SECTIONS

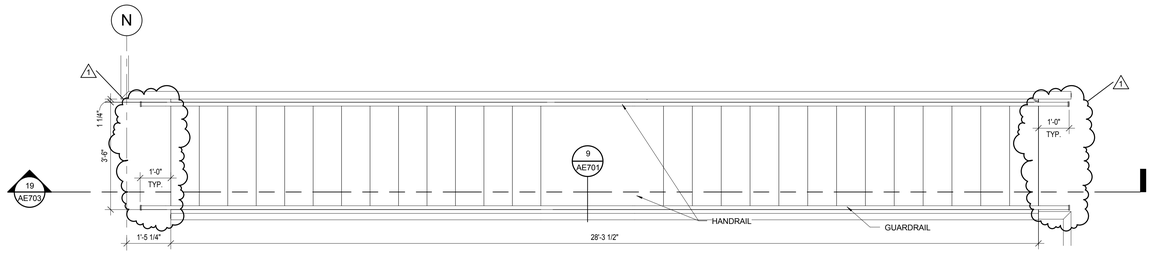
27 Removable Guardrail Elevation
1 1/2" = 1'-0"



6 Callout of C121 Stair Section
1 1/2" = 1'-0"



19 C121 Stair Section
1/2" = 1'-0"



20 C121 Stair Enlarged Plan
1/2" = 1'-0"

KEYNOTE LEGEND

5.26	ORNAMENTAL RAILINGS
6.3	1 1/2" X 2 1/2" RAIL CAP

GENERAL NOTES

1 ALL EXPOSED STEEL TO BE PAINTED

LICENSED ARCHITECT 6710870 JOSEPH FLINT SMITH STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

project#: 11.0420
date: 1/20/2012

revisions:
1 Addendum 3 2/17/2012

Enlarged Stair Plan/Section

sheet:

AE703

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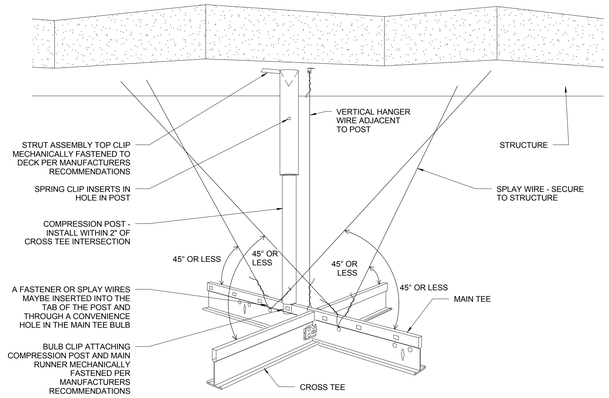


2 TYP. SEISMIC BRACING DETAIL
1 1/2" = 1'-0"

NOTE 1- ALL SPLAY WIRES TO BE IN LINE WITH ATTACHED COMPONENT

NOTE 2- ALL SPLAY WIRES TO BE TAUT AND TIED BOTH ENDS WITH MINIMUM OF THREE TURNS IN 1" OF RUN.

NOTE 3- COMPLY WITH IBC 2009

NOTE 4- SPLAY WIRES SHALL ATTACH TO STRUCTURAL GIRDER OR JOIST ONLY, DO NOT ATTACH TO ROOF DECK.

NOTE 5- METAL COMPRESSION POST (STRUT) FASTENED TO THE MAIN RUNNER SHALL BE EXTENDED TO AND FASTENED TO THE STRUCTURAL MEMBERS SUPPORTING THE ROOF OR FLOOR ABOVE. COMPRESSION POSTS & SPLAY WIRES TO BE INSTALLED EVERY 12' O.C. BOTH DIRECTIONS STARTING 6' FROM WALL. SEE COMPRESSION POST ALLOWABLE LENGTHS TABLE FOR SIZES. SEE DETAILS 3 & 4 FOR TYPICAL BRACING.

NOTE 6- ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE SUSPENDED CEILING SYSTEM. WHEN INTERMEDIATE SYSTEMS ARE USED, ATTACH NO. 12 GAGE HANGERS TO THE GRID MEMBERS WITHIN 3" OF EACH CORNER OF EACH FIXTURE. LIGHT FIXTURES WEIGHING LESS THAN 56 LBS. SHALL HAVE TWO NO. 12 GAGE HANGERS CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE. COMPLY WITH IBC 2009

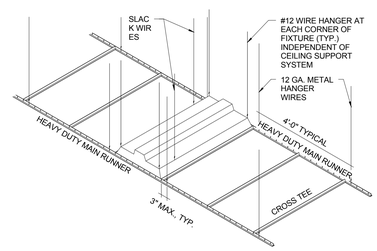
NOTE 7- ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED 20 LBS. SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION MAIN RUNNERS. TERMINALS OR SERVICES WEIGHING 20 LBS., BUT NOT MORE THAT 56 LBS., SHALL IN ADDITION HAVE TWO NO. 12 GAGE HANGERS CONNECTED TO THE CEILING SYSTEM HANGERS OR TO THE STRUCTURE ABOVE. TERMINALS OR SERVICES WEIGHING MORE THAN 56 LBS. SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY APPROVED HANGERS. COMPLY WITH IBC 2009

NOTE 8- ALL GRID SYSTEM IN SEISMIC ZONE D OR GREATER ARE REQUIRED TO BE HEAVY DUTY. REFER REQUIREMENTS TO ASCE 7REQUIREMENTS.

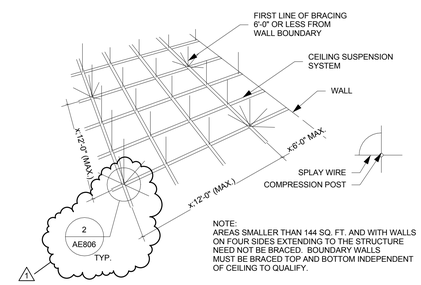
COMPRESSION POST ALLOWABLE LENGTHS TABLE

MATERIAL	TYP. ALLOWABLE LENGTH
13/16" x 13/32" STRUT 19 GA	24"
1 5/8" x 13/16" STRUT 12 GA	48"
13/16" x 13/16" STRUT 19 GA	54"
1 5/8" x 1" STRUT 12 GA	60"
3 5/8" x 1 1/4" STRUT 16 GA	82"
1 1/4" x 1 1/4" STRUT 14 GA	84"
1 5/8" x 1 3/8" STRUT 12 GA	96"
1 5/8" x 1 5/8" STRUT 12 GA	108"
1 5/8" x 2 7/16" STRUT 12 GA	120"

NOTES
1. THE INFORMATION PROVIDED IS FOR QUICK REFERENCE ONLY. OTHER RESTRICTIONS AND EXEMPTIONS MAY APPLY.
2. WALL MOLDING SHOULD NOT BE USED AS STRUTS.
3. A STRUCTURAL ENGINEER SHOULD BE CONSULTED FOR LENGTHS GREATER THAT 14'.

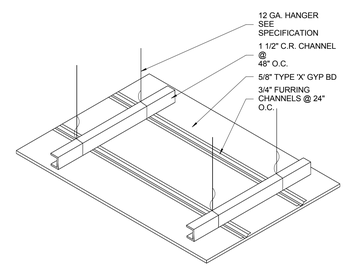


6 TYP FIXTURE SUPPORT ISO
1/64" = 1'-0"

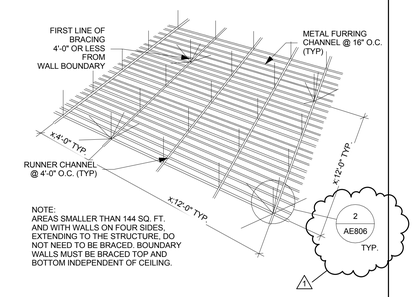


NOTE:
AREAS SMALLER THAN 144 SQ. FT. AND WITH WALLS ON FOUR SIDES EXTENDING TO THE STRUCTURE NEED NOT BE BRACED. BOUNDARY WALLS MUST BE BRACED TOP AND BOTTOM INDEPENDENT OF CEILING TO QUALIFY.

3 SEISMIC BRACING DETAIL
12" = 1'-0"



7 SUSP. CEILING CHANNELS
3" = 1'-0"

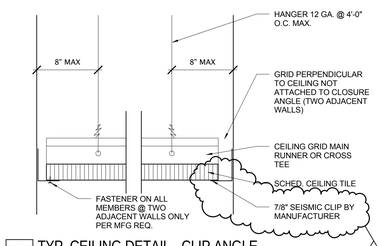


NOTE:
AREAS SMALLER THAN 144 SQ. FT. AND WITH WALLS ON FOUR SIDES, EXTENDING TO THE STRUCTURE, DO NOT NEED TO BE BRACED. BOUNDARY WALLS MUST BE BRACED TOP AND BOTTOM INDEPENDENT OF CEILING.

4 SEISMIC BRACING DETAIL 2
12" = 1'-0"

NOTE 1 - ALL HANGER WIRES TO BE IN LINE WITH ATTACHED COMPONENT OR SHALL BE COUNTERSLOPED NOT GREATER THAN 1/6

NOTE 2 - ALL HANGER WIRES TO BE TAUT AND TIED BOTH ENDS W/ MIN. OF 4 TURNS IN 1" OF RUN.



5 TYP. CEILING DETAIL - CLIP ANGLE
1 1/2" = 1'-0"

LICENSED ARCHITECT
6710870
JOSEPH FLINT SMITH
STATE OF UTAH
01.20.12

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

DFCM PROJECT #11064280

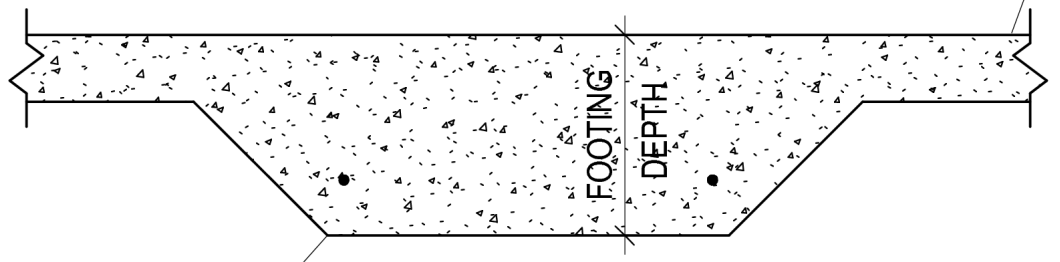
project#: 11.0420
date: 1/20/2012

revisions:
1 Addendum 3 2/17/2012

Ceiling Details

sheet:
AE806

100% Construction Documents



A1
SB501

TYPICAL CONCRETE FOOTING THICKENED SLAB

NO SCALE

2

REAVELEY
ENGINEERS + ASSOCIATES
Consulting Structural Engineers

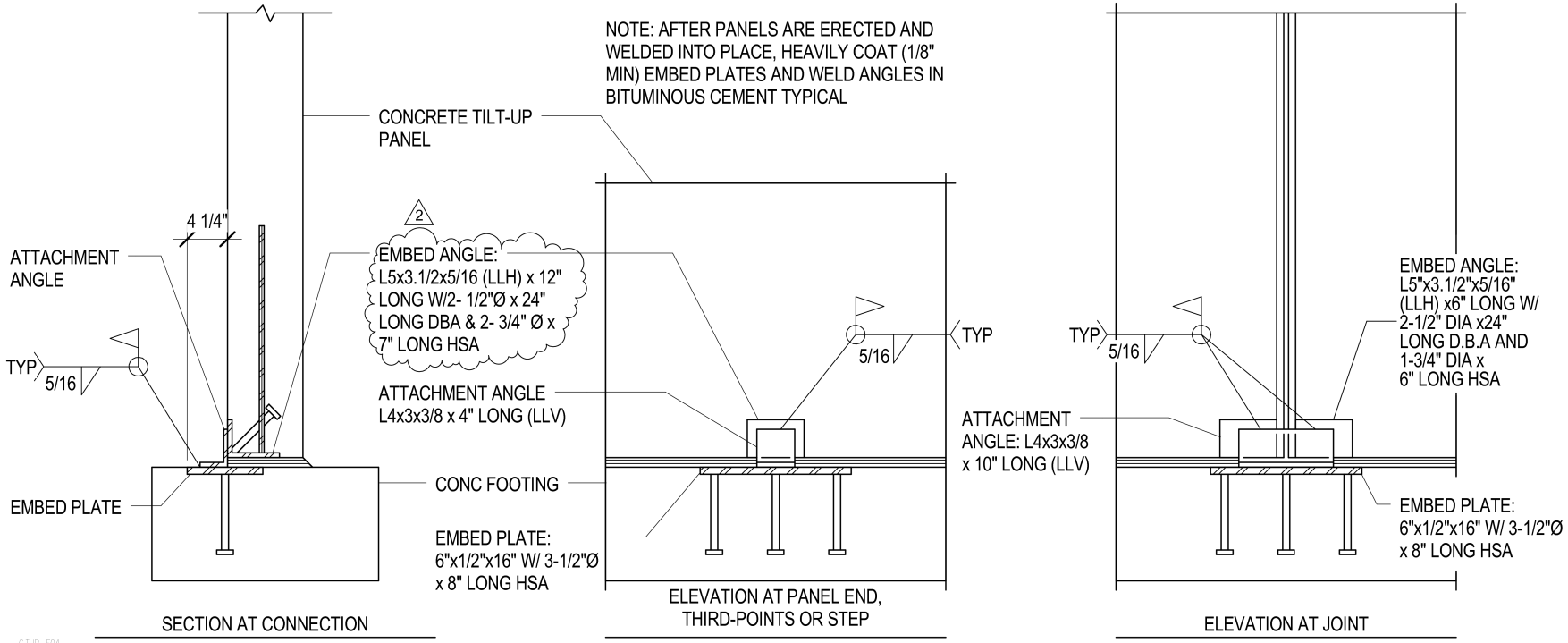
675 E. 500 S. Suite 400
Salt Lake City, Utah
P:801.486.3883
F:801.485.0911
www.reaveley.com

NEW DETAIL

02/16/12

TATC - NEW BUILDING

ADD-03-S01



CTUP-F04

D2
SB505

TYPICAL CONCRETE TILT-UP PANEL CONNECTIONS TO FOOTING

NO SCALE

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Consulting Structural Engineers
675 E. 500 S. Suite 400
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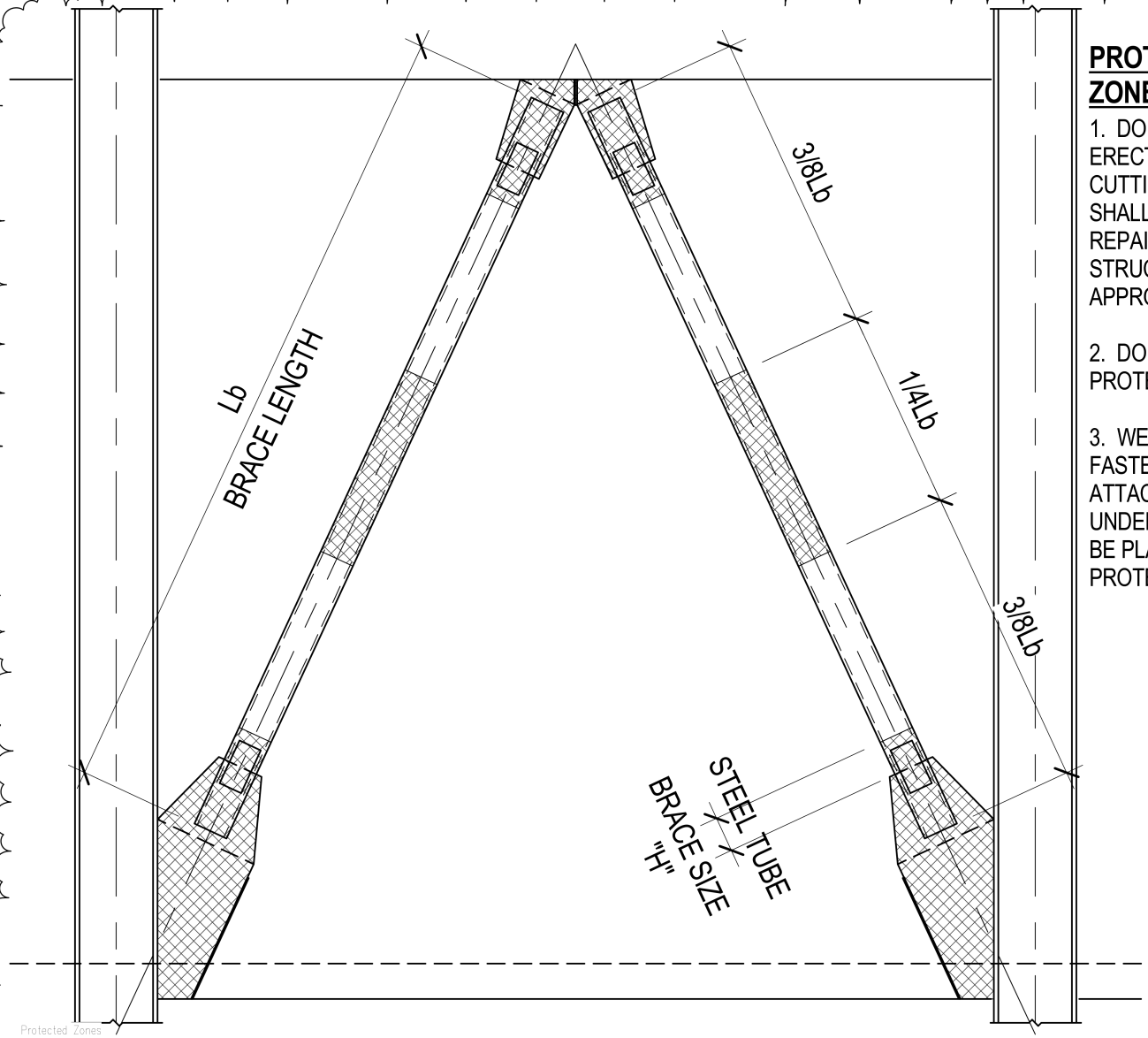
www.reaveley.com

MODIFIED DETAIL

02/17/12

TATC - NEW BUILDING

ADD-03-S02



PROTECTED ZONES:

1. DO NOT WELD OR USE ERECTION AIDS. THERMAL CUTTING AND AIR ARC GOUGING SHALL BE AVOIDED OR BE REPAIRED AS PER THE STRUCTURAL ENGINEERS APPROVED METHOD.

2. DO NOT WELD HSA'S IN PROTECTED ZONES.

3. WELDED, SCREWED, SHOT-IN FASTENERS AND BOLTED ATTACHMENTS SHALL NOT, UNDER ANY CIRCUMSTANCES, BE PLACED WITHIN THE PROTECTED ZONES.

B2 / SF213

TYPICAL PROTECTED ZONES OF STEEL BRACED FRAMES

NO SCALE

REAVELEY
ENGINEERS + ASSOCIATES
Consulting Structural Engineers
675 E. 500 S. Suite 400
Salt Lake City, Utah
P:801.486.3883
F:801.485.0911
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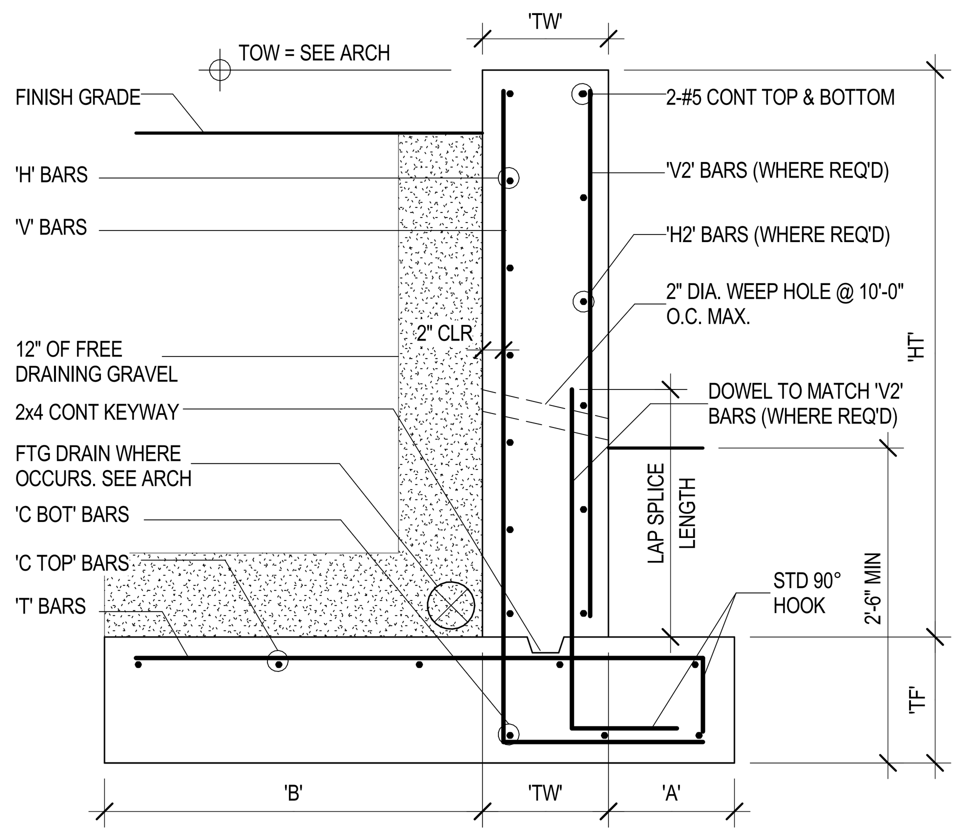
NEW DETAIL

02/16/12

TATC - NEW BUILDING

ADD-03-S03



CONCRETE RETAINING WALL SCHEDULE

MARK	'HT'	'A'	'B'	'TW'	'TF'	'V' BARS		'H' BARS		'V2' BARS		'H2' BARS		'T' BARS		'C TOP' BARS		'C BOT' BARS	
						SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE
CRW-1	7'-0"	1'-0"	6'-6"	1'-0"	1'-4"	#5	12"	#4	12"	#5	12"	#4	12"	#5	10"	#5	9.6"	#5	18"

NOTES:
1. 'V' BARS SHALL NOT BE SPLICED BELOW MID-HEIGHT OF WALL
2. FOR WALLS WITH 'HT' OF 9'-0" & GREATER. ONE HALF OF THE 'V' BARS CAN BE DISCONTIUED FROM MID-HEIGHT TO TOP OF WALL.

C1 SB601 TYPICAL CONCRETE RETAINING WALL SCHEDULE AND DETAIL

NO SCALE

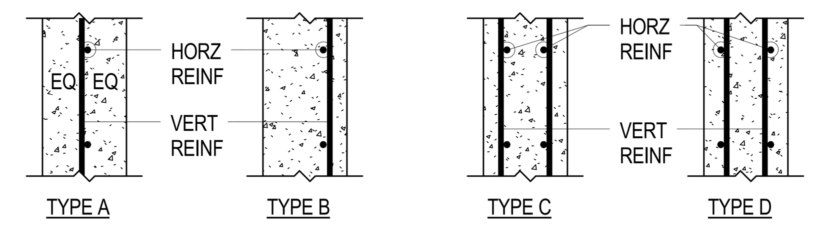
CONCRETE FOUNDATION WALL SCHEDULE

MARK	THICK	VERTICAL REINFORCING	HORIZONTAL REINFORCING	T & B HORIZ. BARS	PLACEMENT
CFW-1	8"	#5 @ 12" O.C.	#4 @ 13" O.C.	1-#5	TYPE A
CFW-2	1' - 0"	#4 @ 13" O.C., E.F.	#4 @ 18" O.C., E.F.	2-#4	TYPE D
CFW-3	8"	#4 @ 12" O.C.	#4 @ 12" O.C.	1-#4	TYPE A
CFW-4	1' - 3"	#5 @ 12" O.C., E.F.	#4 @ 12" O.C., E.F.	2-#5	TYPE C
CFW-5	10"	#4 @ 13" O.C.	#5 @ 12" O.C.	1-#5	TYPE A

2

NOTES:
1. HORIZONTAL WALL REINFORCING SHALL BE CONTINUOUS THRU CONSTRUCTION & CONTROL JOINTS.
2. SPLICES IN HORIZONTAL WALL REINFORCING SHALL BE TYPE Lsb, STAGGERED SUCH THAT SPLICES DO NOT OVERLAP. SPLICES IN TWO CURTAINS SHALL NOT OCCUR IN THE SAME LOCATION.

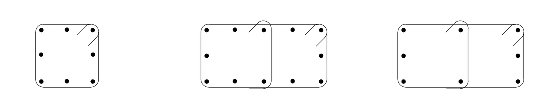
PLACEMENT TYPE



E.F. = EACH FACE
O.F. = OUTSIDE FACE (AGAINST SOIL)
I.F. = INSIDE FACE
3L = THREE LAYERS

CONCRETE PIER SCHEDULE

MARK	DIMENSIONS		REINFORCING		REMARKS
	DEPTH	WIDTH	VERTICAL	TIES	
CP-1	1' - 6"	1' - 6"	8-#6	#3 @ 12" O.C.	
CP-2	1' - 6"	2' - 6"	12-#9	#3 @ 18" O.C.	
CP-3	1' - 4"	2' - 0"	8-#8	#3 @ 12" O.C.	

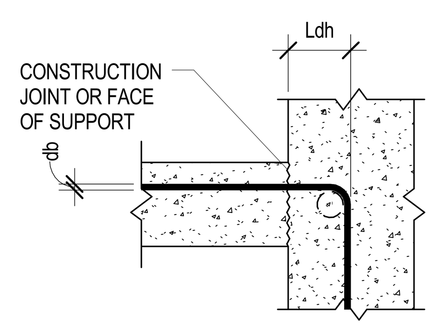


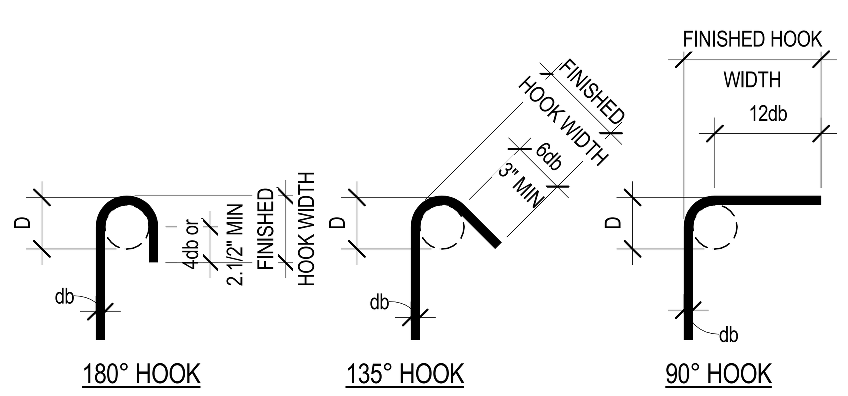
CP-1 CP-2 CP-3

CONCRETE FOOTING SCHEDULE

MARK	WIDTH	LENGTH	THICK	CROSSWISE REINFORCING NO.	SIZE	LENGTH	SPACE	LENGTHWISE REINFORCING NO.	SIZE	LENGTH	SPACE	REMARKS
FC1.5	1' - 6"	CONT.	1' - 0"	-	NONE	REQ'D	-	3	#4	CONT.	6"	
FC2.0	2' - 0"	CONT.	1' - 0"	-	NONE	REQ'D	-	3	#4	CONT.	9"	
FC3.0	3' - 0"	CONT.	1' - 0"	-	#5	2'-6"	14"	3	#5	CONT.	15"	
FC4.0	4' - 0"	CONT.	1' - 0"	-	#5	3'-6"	14"	4	#5	CONT.	14"	
FC5.0	5' - 0"	CONT.	1' - 3"	-	#5	4'-6"	12"	5	#5	CONT.	13.5"	
FTS2.0	2' - 0"	CONT	1' - 0"	-	NONE	REQ'D	-	3	#4	CONT.	9"	
FS3.0	3' - 0"	3' 0"	1' - 0"	4	#4	2' 6"	10"	4	#4	2' 6"	10"	
FS3.5	3' - 6"	3' 6"	1' - 0"	5	#4	3' 0"	9"	5	#4	3' 0"	9"	
FS4.0	4' - 0"	4' 0"	1' - 0"	6	#4	3' 6"	8.4"	6	#4	3' 6"	8.4"	
FS4.5	4' - 6"	4' 6"	1' - 0"	7	#4	4' 0"	8"	7	#4	4' 0"	8"	
FS5.0	5' - 0"	5' 0"	1' - 1"	8	#4	4' 6"	7.7"	8	#4	4' 6"	7.7"	
FS5.5	5' - 6"	5' 6"	1' - 2"	7	#5	5' 0"	10"	7	#5	5' 0"	10"	
FS6.0	6' - 0"	6' 0"	1' - 3"	8	#5	5' 6"	9.5"	8	#5	5' 6"	9.5"	
FS6.5	6' - 6"	6' 6"	1' - 5"	6	#6	6' 0"	14.4"	6	#6	6' 0"	14.4"	
FS7.0	7' - 0"	7' 0"	1' - 6"	7	#6	6' 6"	13"	7	#6	6' 6"	13"	
FS7.5	7' - 6"	7' 6"	1' - 9"	6	#7	7' 0"	16.8"	6	#7	7' 0"	16.8"	
FS8.0	8' - 0"	8' 0"	1' - 10"	9	#6	7' 6"	11.25"	9	#6	7' 6"	11.25"	
FM3.0x30.0	3' - 0"	30'-0"	1' - 2"	21 27	#5 #5	2'-6" 2'-6"	18" 14"	3 3	#5 #5	CONT. CONT.	18" 15"	TOP BOT
FM4.0x20.0	4' - 0"	20'-0"	1' - 2"	14 18	#5 #5	3'-6" 3'-6"	18" 14"	4 4	#5 #5	CONT. CONT.	18" 15"	TOP BOT
FM4.0x41.0	4' - 0"	41'-0"	1' - 2"	28 36	#5 #5	3'-6" 3'-6"	18" 14"	4 4	#5 #5	CONT. CONT.	18" 14"	TOP BOT
FM5.0x32.0	5' - 0"	32'-0"	3' - 0"	22 27	#5 #5	4'-6" 4'-6"	18" 15"	4 6	#5 #5	CONT. CONT.	18" 12"	TOP BOT
FM6.0x28.0	6' - 0"	28'-0"	1' - 2"	20 25	#5 #5	5'-6" 5'-6"	18" 14"	5 9	#5 #5	CONT. CONT.	18" 9"	TOP BOT
FM6.0x29.0	6' - 0"	29'-0"	1' - 2"	20 26	#5 #5	5'-6" 5'-6"	18" 14"	5 11	#5 #5	CONT. CONT.	18" 7"	TOP BOT
FM7.0x27.0	7' - 0"	27'-0"	1' - 2"	19 24	#5 #5	6'-6" 6'-6"	18" 14"	6 13	#5 #5	CONT. CONT.	18" 7"	TOP BOT
FM7.5x30.0	7' - 6"	30'-0"	1' - 2"	21 27	#5 #5	7'-0" 7'-0"	18" 14"	6 13	#5 #5	CONT. CONT.	18" 7"	TOP BOT

1. PLACE ALL FOOTING REINFORCING IN BOTTOM OF FOOTING WITH 3" CLEAR CONCRETE COVER UNLESS NOTED OTHERWISE.
2. TOP REINFORCING, WHERE SPECIFIED, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" CLEAR CONCRETE COVER.
3. SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS AND CONTINUOUS FOOTINGS SHALL BE CENTERED UNDER WALLS, UNLESS NOTED OTHERWISE.
4. ALL FOOTINGS SHALL BE FORMED. FOOTINGS SHALL NOT BE EARTH FORMED OR OVERSIZED WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL ENGINEER.





END HOOK SCHEDULE

BAR SIZE	D	FINISHED HOOK WIDTH 180° HOOK	135° HOOK	90° HOOK
#3	2.1/4"	3"	3"	6"
#4	3"	4"	3"	8"
#5	3.1/4"	5"	3.3/4"	10"
#6	4.1/2"	6"	4.1/2"	12"
#7	5.1/4"	7"	5.1/4"	14"
#8	6"	8"	6"	16"
#9	9.1/2"	11.3/4"	--	19"
#10	10.3/4"	13.1/4"	--	22"
#11	12"	14.3/4"	--	24"
#14	18.1/4"	21.3/4"	--	31"
#18	24"	28.1/2"	--	41"

TENSION HOOK DEVELOPMENT LENGTH (Ldh)

BAR SIZE	NORMAL WEIGHT CONCRETE, f'c = PSI 3,000	4,000	4,500	5,000	6,000
#3	6"	6"	6"	6"	6"
#4	8"	7"	7"	7"	7"
#5	10"	9"	8"	8"	7"
#6	12"	10"	10"	9"	8"
#7	14"	12"	11"	11"	10"
#8	16"	14"	13"	12"	11"
#9	18"	15"	14"	14"	13"
#10	20"	17"	16"	15"	14"
#11	22"	19"	18"	17"	16"
#14	37"	32"	31"	29"	27"
#18	50"	43"	41"	39"	35"

NOTES:
1. VALUES HERE VALID FOR ALL CASES IF:
SIDE COVER ≥ 2.1/2"
END COVER ≥ 2"

2. MULTIPLY VALUES IN SCHEDULE BY 1.2 FOR LIGHTWEIGHT CONCRETE

3. MULTIPLY VALUES IN SCHEDULE BY 1.2 FOR USE WITH EPOXY COATED REBAR

CONCRETE REINFORCING BAR DEVELOPMENT AND LAP SPLICE LENGTH SCHEDULE

BAR SIZE	f'c = 3000 PSI				f'c = 4000 PSI				f'c = 4500 PSI				f'c = 5000 PSI				f'c = 6000 PSI				f'c = ALL	
	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ldc	Lsc
#3	17"	22"	22"	28"	15"	19"	19"	25"	14"	18"	18"	23"	13"	17"	17"	22"	12"	16"	16"	20"	8"	12"
#4	22"	29"	29"	38"	19"	25"	25"	33"	18"	24"	24"	31"	17"	23"	23"	29"	16"	21"	21"	27"	10"	15"
#5	28"	36"	36"	47"	24"	31"	31"	41"	23"	30"	30"	38"	22"	28"	28"	36"	20"	26"	26"	33"	12"	19"
#6	33"	43"	43"	56"	29"	37"	37"	49"	27"	35"	35"	46"	26"	34"	34"	44"	24"	31"	31"	40"	15"	23"
#7	48"	63"	63"	81"	42"	54"	54"	71"	40"	51"	51"	67"	38"	49"	49"	63"	34"	45"	45"	58"	17"	27"
#8	55"	72"	72"	93"	48"	62"	62"	81"	45"	59"	59"	76"	43"	56"	56"	72"	39"	51"	51"	66"	19"	30"
#9	62"	81"	81"	105"	54"	70"	70"	91"	51"	66"	66"	86"	48"	63"	63"	81"	44"	57"	57"	74"	22"	34"
#10	70"	91"	91"	118"	61"	79"	79"	102"	57"	74"	74"	96"	54"	71"	71"	92"	50"	64"	64"	84"	24"	39"
#11	78"	101"	101"	131"	67"	87"	87"	114"	64"	82"	82"	107"	60"	78"	78"	102"	55"	71"	71"	93"	27"	43"
#14	93"	121"	NA	NA	81"	105"	NA	NA	76"	99"	NA	NA	72"	94"	NA	NA	66"	86"	NA	NA	33"	NA
#18	124"	161"	NA	NA	108"	140"	NA	NA	101"	132"	NA	NA	96"	125"	NA	NA	88"	114"	NA	NA	43"	NA

NOTES:
1. DEFINITIONS:
Ld: TENSION DEVELOPMENT LENGTH FOR REINFORCEMENT SATISFYING THE FOLLOWING CONDITIONS:
SLABS AND WALLS: CLEAR SPACING > 2db AND CONCRETE CLEAR COVER > db
BEAMS AND COLUMNS: CLEAR COVER SPACING > db AND CONCRETE CLEAR COVER > db
Lt: DEVELOPMENT LENGTH FOR TOP BARS IN TENSION
Lsb: TENSION LAP SPLICE LENGTH FOR OTHER THAN TOP BARS (CLASS B)
Lsbt: TENSION LAP SPLICE LENGTH OF TOP BARS.
Ldc: DEVELOPMENT LENGTH FOR BARS IN COMPRESSION
Lsc: TIED COLUMN LAP SPLICE IN COMPRESSION
db: NOMINAL BAR DIAMETER (INCHES)
TOP BARS: HORIZONTAL BEAM REINFORCEMENT WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW

2. MULTIPLY VALUES IN SCHEDULE BY 1.5 IF CLEAR SPACING OR CONCRETE COVER DO NOT MEET REQUIREMENTS FOR Ld IN NOTE 1.

3. MULTIPLY VALUES IN SCHEDULE BY 1.3 FOR USE IN LIGHTWEIGHT AGGREGATE CONCRETE.

4. FOR EPOXY COATED BAR: MULTIPLY VALUES IN SCHEDULE BY 1.5 FOR BARS WITH CLEAR COVER < 3db OR CLEAR SPACING < 6db. OTHERWISE MULTIPLY VALUES BY 1.2.

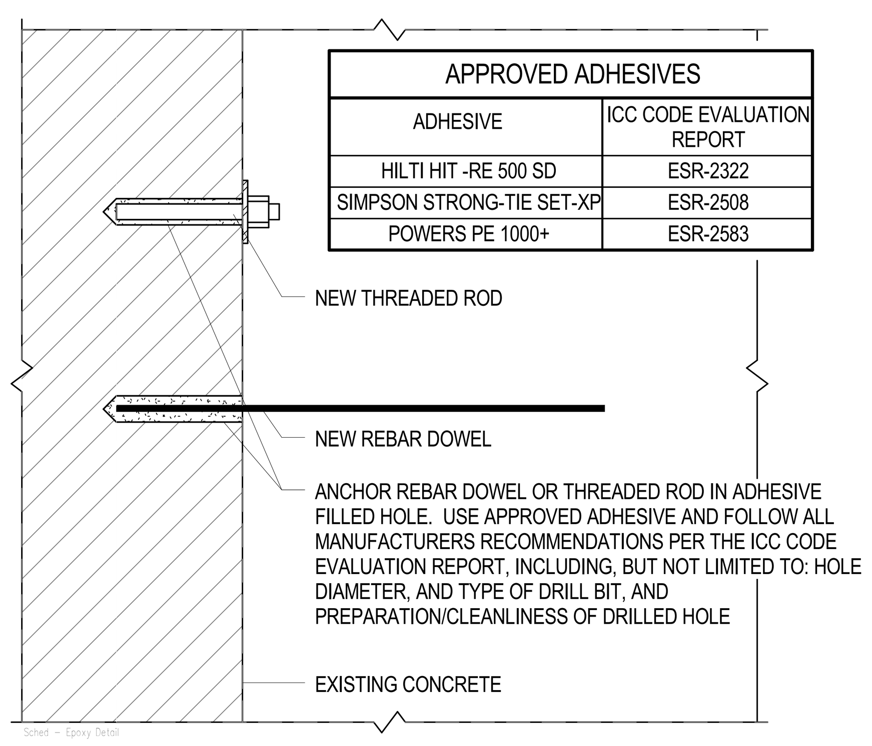
5. a. FOR BUNDLED BARS OF THREE OR LESS MULTIPLY LENGTHS BY 1.2.
b. FOR BUNDLED BARS OF FOUR OR MORE MULTIPLY LENGTHS BY 1.33.
c. INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED.

6. SCHEDULE LENGTHS ARE FOR fy=60ksi REINFORCING, MULTIPLY LENGTHS BY 1.25 FOR fy=75ksi REINFORCING.

7. LAP SPLICES ARE NOT PERMITTED FOR #14 & #18 BARS. USE BAR COUPLERS PER G.S.N.

APPROVED ADHESIVES

ADHESIVE	ICC CODE EVALUATION REPORT
HILTI HIT -RE 500 SD	ESR-2322
SIMPSON STRONG-TIE SET-XP	ESR-2508
POWERS PE 1000+	ESR-2583



ADHESIVE ANCHORING SCHEDULE

REINFORCING DOWEL SIZE	EMBEDMENT LENGTH (SEE NOTE #2)	THREADED ROD SIZE (DIA)	EMBEDMENT LENGTH (SEE NOTE #2)
#3	4"	3/8"	4 1/2"
#4	6"	1/2"	6"
#5	9"	5/8"	7 1/2"
#6	10"	3/4"	9"
#7	12"	7/8"	10 1/2"
#8	13"	1"	12"
#9	14"	1 1/4"	15"
#10	18"		
#11	18"		

NOTES:
1. THIS SCHEDULE SHALL BE USED ONLY WHERE SPECIFICALLY REFERENCED ON THE DRAWINGS AND AT OTHER LOCATIONS WITH THE APPROVAL OF THE ENGINEER.
2. EMBEDMENT LENGTHS SPECIFIED ON PLANS OR DETAILS TAKE PRECEDENCE OVER EMBEDMENT LENGTHS IN THIS SCHEDULE.
3. WHERE THE THICKNESS OF THE EXISTING CONCRETE MEMBER IS NOT SUFFICIENT TO ACHIEVE SCHEDULED EMBEDMENT AND SPECIFIED CLEAR COVER FOR THE ANCHOR, CONTACT THE ENGINEER.
4. USE PROCEEDURES AND PRODUCTS RECOMMENDED BY ADHESIVE MANUFACTURER FOR OVERHEAD INSTALLATION.
5. SPECIAL INSPECTION IS REQUIRED DURING INSTALLATION OF ALL ADHESIVE ANCHORS PER THE CODE EVALUATION REPORT FOR THE ANCHOR AND THE QUALITY ASSURANCE SECTION OF THE GENERAL STRUCTURAL NOTES.

A2 SB601 ADHESIVE ANCHORING SCHEDULE

NO SCALE

LICENSED CERTIFIED STRUCTURAL ENGINEER NO. 178779 MARK R. HARRIS UTAH

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Consulting Structural Engineers

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
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project#: 11.0420
date: 1/20/12

revisions :
2 Addendum #3 02.17.12

STRUCTURAL SCHEDULES

sheet:

SB601

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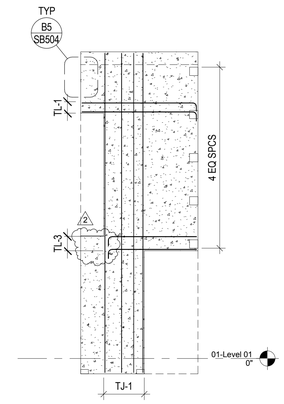
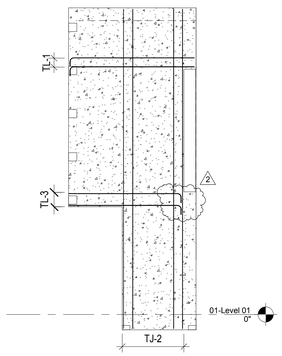


D1 SF201 PANEL 1
SCALE: 1/8" = 1'-0"



D2 SF201 PANEL 2
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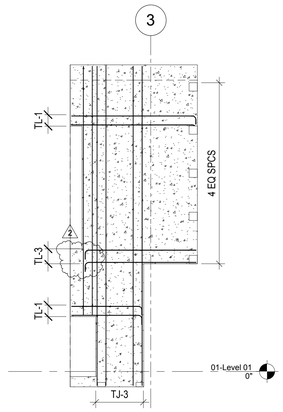

D3 SF201 PANEL 3
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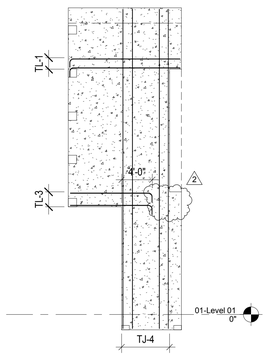

D4 SF201 PANEL 4
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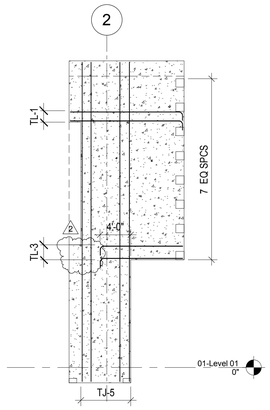

D5 SF201 PANEL 5
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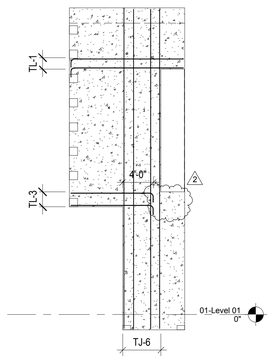


D6 SF201 PANEL 6
SCALE: 1/8" = 1'-0"

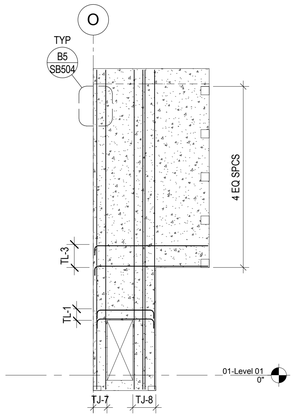
CONCRETE TILT-UP PANEL LEGEND

- TILT-UP PANEL CONNECTION SEE B1/SB504
- TILT-UP PANEL TO FOOTING CONNECTION SEE D2/SB505

CONCRETE TILT-UP PANEL ELEVATION NOTES

1. SEE SB504 FOR TYPICAL CONCRETE TILT-UP PANEL REINFORCING SCHEDULE, OPENING REINFORCING SCHEDULE & TYPICAL DETAILS.

2. TOP TILT-UP PANEL CONNECTION SHALL BE 6" BELOW DECK BEARING.



B1 SF201 PANEL 7
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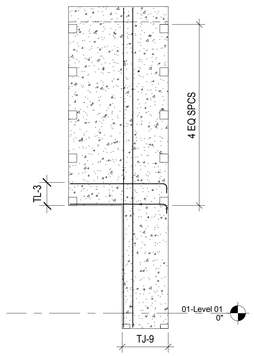

B2 SF201 PANEL 8
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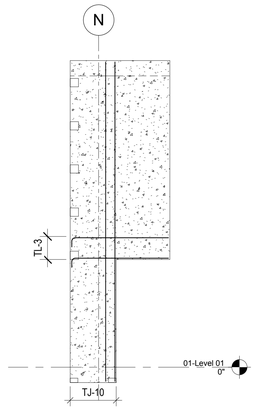

B3 SF201 PANEL 9
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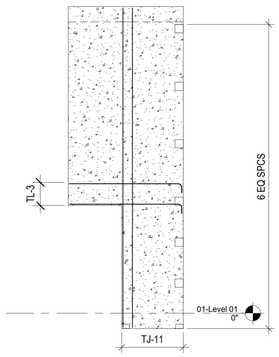

B4 SF201 PANEL 10
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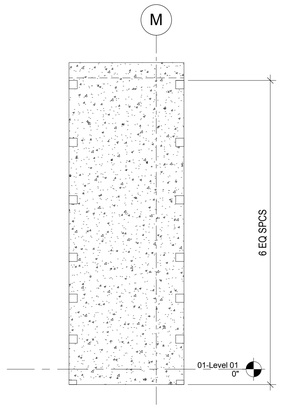

B5 SF201 PANEL 11
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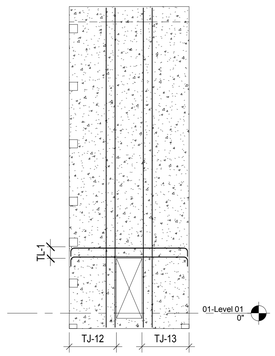

B6 SF201 PANEL 12
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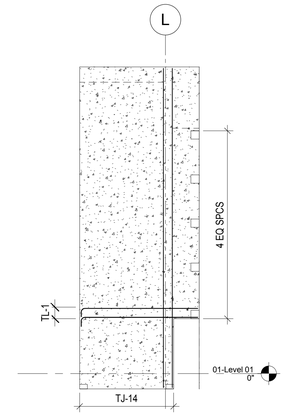
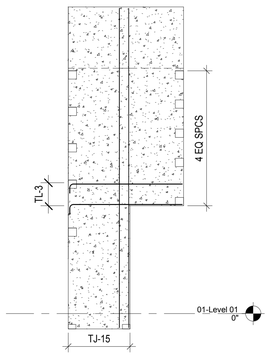
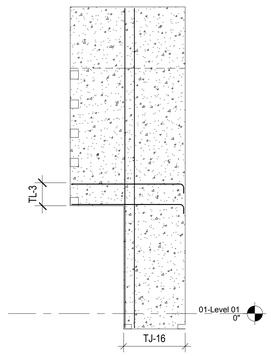


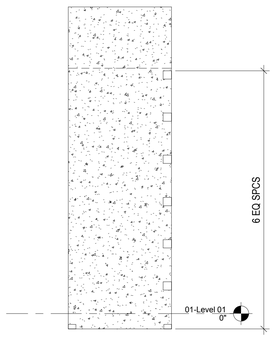
A1 SF201 PANEL 13
SCALE: 1/8" = 1'-0"



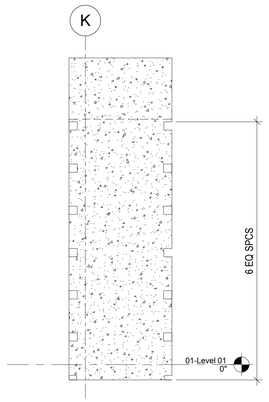
A2 SF201 PANEL 14
SCALE: 1/8" = 1'-0"



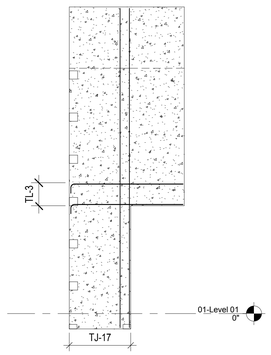
A3 SF201 PANEL 15
SCALE: 1/8" = 1'-0"



A4 SF201 PANEL 16
SCALE: 1/8" = 1'-0"



A5 SF201 PANEL 17
SCALE: 1/8" = 1'-0"



A6 SF201 PANEL 18
SCALE: 1/8" = 1'-0"

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TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

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project#: 11.0420
date: 1/20/12

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2	Addendum #3	02.17.12

TILT-UP PANEL ELEVATIONS

sheet:

SF201

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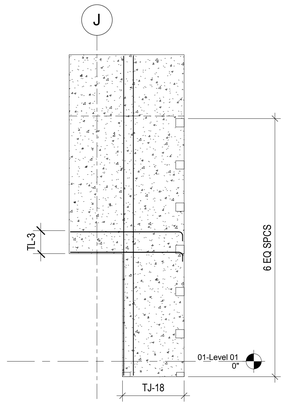
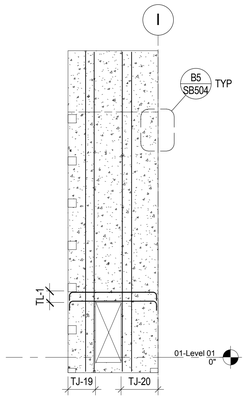
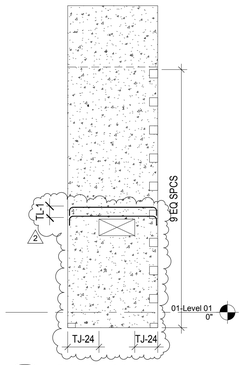


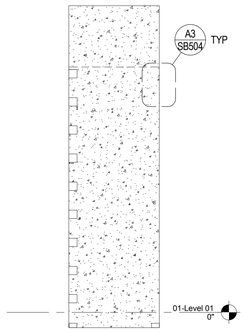
D1 / SF202 PANEL 19
SCALE: 1/8" = 1'-0"



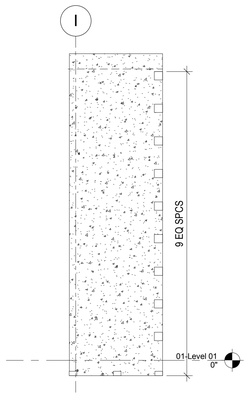
D2 / SF202 PANEL 20
SCALE: 1/8" = 1'-0"



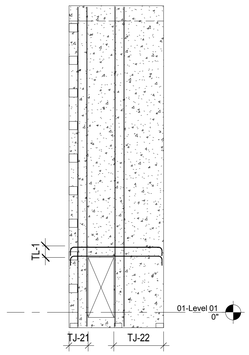
D3 / SF202 PANEL 21
SCALE: 1/8" = 1'-0"



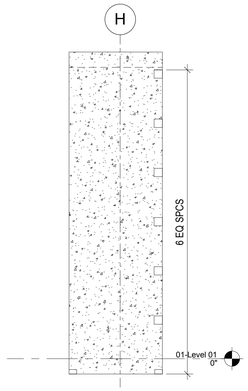
D4 / SF202 PANEL 22
SCALE: 1/8" = 1'-0"



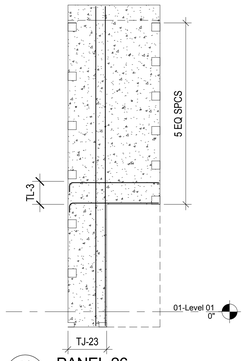
D5 / SF202 PANEL 23
SCALE: 1/8" = 1'-0"



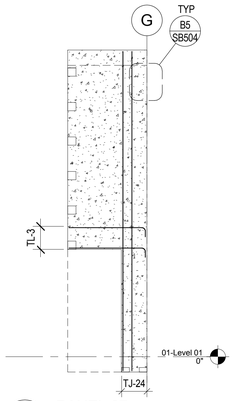
D6 / SF202 PANEL 24
SCALE: 1/8" = 1'-0"



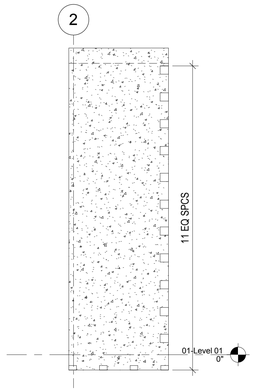
B1 / SF202 PANEL 25
SCALE: 1/8" = 1'-0"



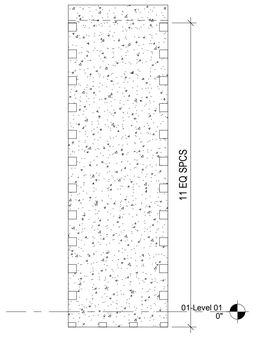
B2 / SF202 PANEL 26
SCALE: 1/8" = 1'-0"



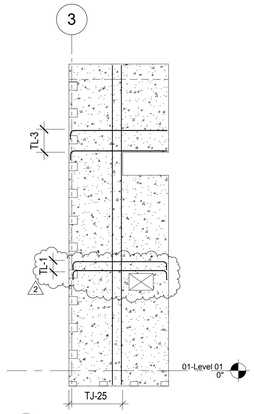
B3 / SF202 PANEL 27
SCALE: 1/8" = 1'-0"



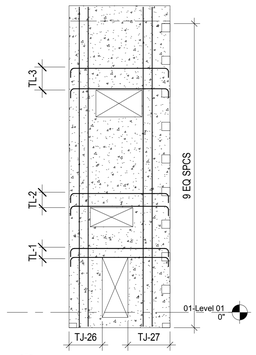
B4 / SF202 PANEL 28
SCALE: 1/8" = 1'-0"



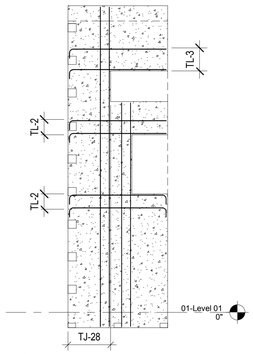
B5 / SF202 PANEL 29
SCALE: 1/8" = 1'-0"



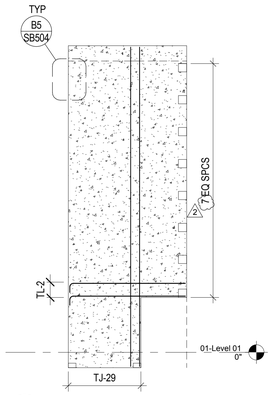
B6 / SF202 PANEL 30
SCALE: 1/8" = 1'-0"



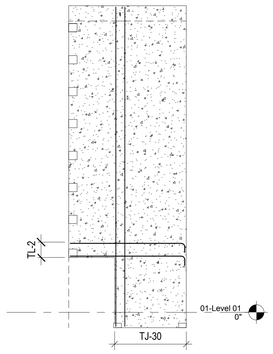
A1 / SF202 PANEL 31
SCALE: 1/8" = 1'-0"



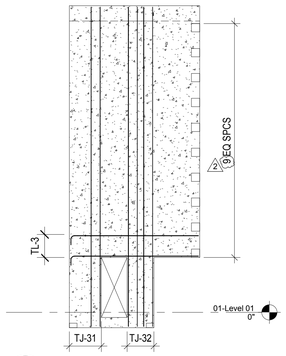
A2 / SF202 PANEL 32
SCALE: 1/8" = 1'-0"



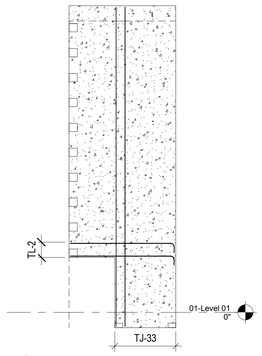
A3 / SF202 PANEL 33
SCALE: 1/8" = 1'-0"



A4 / SF202 PANEL 34
SCALE: 1/8" = 1'-0"



A5 / SF202 PANEL 35
SCALE: 1/8" = 1'-0"



A6 / SF202 PANEL 36
SCALE: 1/8" = 1'-0"

CONCRETE TILT-UP PANEL LEGEND

- TILT-UP PANEL CONNECTION SEE B1/SB504
- TILT-UP PANEL TO FOOTING CONNECTION SEE D2/SB505

CONCRETE TILT-UP PANEL ELEVATION NOTES

1. SEE SB504 FOR TYPICAL CONCRETE TILT-UP PANEL REINFORCING SCHEDULE, OPENING REINFORCING SCHEDULE & TYPICAL DETAILS.

2. TOP TILT-UP PANEL CONNECTION SHALL BE 6" BELOW DECK BEARING.

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Consulting Structural Engineers

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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/12

revisions :

2	Addendum #3	02.17.12

TILT-UP PANEL ELEVATIONS

sheet:

SF202

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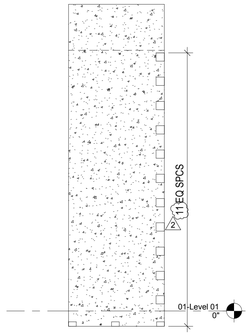
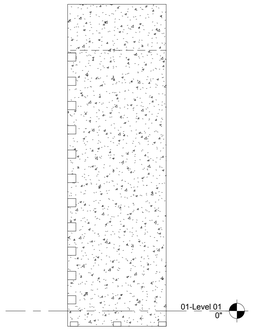
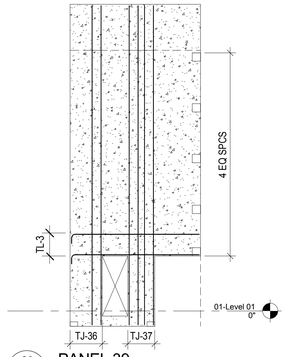


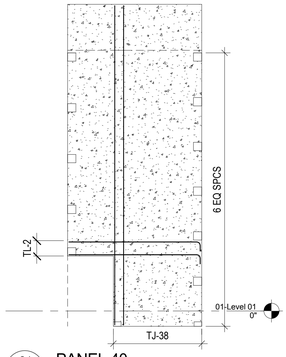
C1 / SF203 PANEL 37
SCALE: 1/8" = 1'-0"



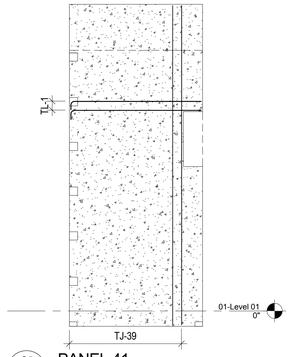
C2 / SF203 PANEL 38
SCALE: 1/8" = 1'-0"



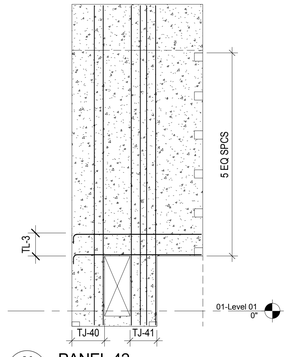
C3 / SF203 PANEL 39
SCALE: 1/8" = 1'-0"



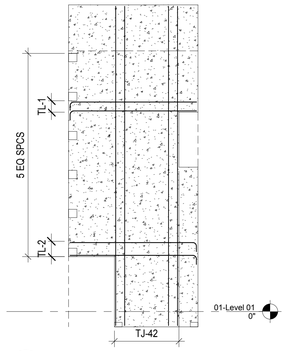
C4 / SF203 PANEL 40
SCALE: 1/8" = 1'-0"



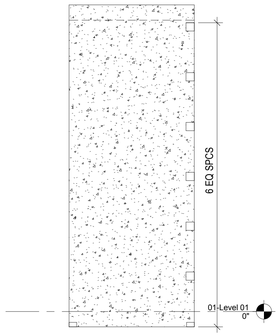
C5 / SF203 PANEL 41
SCALE: 1/8" = 1'-0"



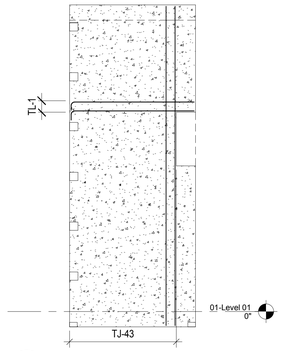
C6 / SF203 PANEL 42
SCALE: 1/8" = 1'-0"



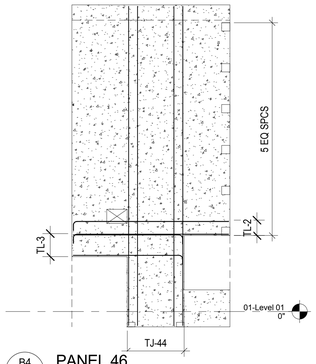
B1 / SF203 PANEL 43
SCALE: 1/8" = 1'-0"



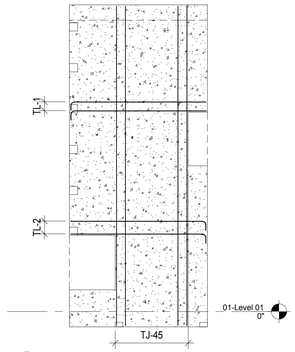
B2 / SF203 PANEL 44
SCALE: 1/8" = 1'-0"



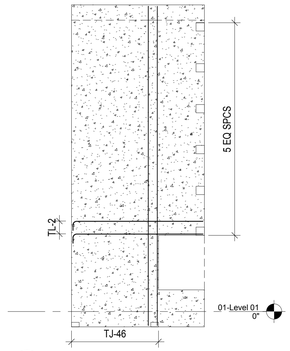
B3 / SF203 PANEL 45
SCALE: 1/8" = 1'-0"



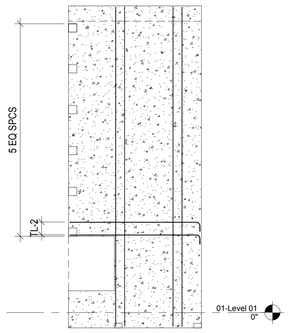
B4 / SF203 PANEL 46
SCALE: 1/8" = 1'-0"



B5 / SF203 PANEL 47
SCALE: 1/8" = 1'-0"



B6 / SF203 PANEL 48
SCALE: 1/8" = 1'-0"



A1 / SF203 PANEL 49
SCALE: 1/8" = 1'-0"

CONCRETE TILT-UP PANEL LEGEND

- ☐ TILT-UP PANEL CONNECTION SEE B1/SB504
- ▭ TILT-UP PANEL TO FOOTING CONNECTION SEE D2/SB505

CONCRETE TILT-UP PANEL ELEVATION NOTES

1. SEE SB504 FOR TYPICAL CONCRETE TILT-UP PANEL REINFORCING SCHEDULE, OPENING REINFORCING SCHEDULE & TYPICAL DETAILS.

2. TOP TILT-UP PANEL CONNECTION SHALL BE 6" BELOW DECK BEARING.

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revisions :
2 Addendum #3 02.17.12

TILT-UP PANEL ELEVATIONS

sheet:

SF203

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WELDING EXHAUST HOSE ASSEMBLY SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	AIRFLOW (CFM)	QUANTITY	PHYSICAL HOSE DIAMETER (IN)	PHYSICAL HOSE LENGTH (FT)	NOTES
WHA-1	CAR-MON 6M	WELDING LAB C107	600	15	6	10	(1)

(1) WELDING EXHAUST HOSE ASSEMBLY COMPLETE WITH INTEGRAL WELDING FUME RECEPTOR WITH SWIVEL HEAD AND CORROSION RESISTANT COLLECTOR SCREEN, WELDPROOF TYPE HOSE, AND HAND DAMPER WITH LOCKING QUADRANT.

PORTABLE AIR CLEANER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	AIRFLOW RATE (CFM)	ARM LENGTH (FT)	ARM DIAMETER (IN)	FILTERS PRE-FILTER EFFICIENCY (%)	FILTERS FINAL FILTER EFFICIENCY (%)	ELECTRICAL VOLT/PH/HZ	ELECTRICAL MOTOR HP	PHYSICAL LENGTH / WIDTH / HEIGHT (IN)	NOTES
PAC-1	CARMON CMX-124PA	WELDING LAB C107	1000	10	8	30%	95%	460/3/60	1.5	38/27/68	(1)
PAC-2	CARMON CMX-124PA	WELDING LAB C107	1000	10	8	30%	95%	460/3/60	1.5	38/27/68	(1)
PAC-3	CARMON CMX-124PA	WELDING LAB C107	1000	10	8	30%	95%	460/3/60	1.5	38/27/68	(1)

(1) UNIT EQUIPPED WITH BASE MOUNTED CASTERS FOR EASE OF MOVEMENT, ALUMINUM PRE-FILTER, 95% FINAL FILTER AND 15 FT POWER CORD.

ARTICULATED EXHAUST ARM ASSEMBLY SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	AIRFLOW (CFM)	PHYSICAL HOSE DIAMETER (IN)	PHYSICAL HOSE LENGTH (FT)	NOTES
AA-1	CAR-MON SERIES AT	CE & R LAB C121	900	8	15	(1)
AA-2	CAR-MON SERIES AT	CE & R LAB C121	900	8	15	(1)

(1) ARTICULATED EXHAUST ARM ASSEMBLY COMPLETE WITH HIGH TEMPERATURE HOSE RATED FOR (1000°F) OPERATING TEMPERATURE, MODEL RDS-7 DIESEL STACK ADAPTER, MODEL LFT-25 HOSE RETRACTOR AND POSITIONING POLE.

GAS FIRED RADIANT TUBE HEATER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	INPUT CAPACITY (MBH)	LENGTH (FT)	FUEL TYPE	ELECTRICAL VOLT/PH/HZ	ELECTRICAL MAX CURRENT (AMPS)	PHYSICAL EXHAUST FLUE Ø (IN)	PHYSICAL WEIGHT (LBS)	PHYSICAL MIN. MOUNTING HEIGHT (FT)	NOTES
IH-1	AMBIRAD VPLUS125	CONST. TECH LAB C103	TUBE	125	40	NAT. GAS	120/1/60	1.2	4	200	16	(1)(2)(3)(4)(5)(6)(7)
IH-2	AMBIRAD VPLUS125	CONST. TECH LAB C103	TUBE	125	40	NAT. GAS	120/1/60	1.2	4	200	16	(1)(2)(3)(4)(5)(6)(7)
IH-3	AMBIRAD VPLUS125	CONST. TECH LAB C103	TUBE	125	40	NAT. GAS	120/1/60	1.2	4	200	16	(1)(2)(3)(4)(5)(6)(7)
IH-4	AMBIRAD VPLUS125	WELDING LAB C107	TUBE	125	40	NAT. GAS	120/1/60	1.2	4	200	16	(1)(2)(3)(4)(5)(6)(7)
IH-5	AMBIRAD VPLUS125	WELDING LAB C107	TUBE	125	40	NAT. GAS	120/1/60	1.2	4	200	16	(1)(2)(3)(4)(5)(6)(7)
IH-6	AMBIRAD VPLUS125	WELDING LAB C107	TUBE	125	40	NAT. GAS	120/1/60	1.2	4	200	16	(1)(2)(3)(4)(5)(6)(7)
IH-7	AMBIRAD VPLUS150	CE & R LAB C121	TUBE	150	50	NAT. GAS	120/1/60	1.2	4	265	18	(1)(2)(3)(4)(5)(6)(7)
IH-8	AMBIRAD VPLUS150	CE & R LAB C121	TUBE	150	40	NAT. GAS	120/1/60	1.2	4	200	18	(1)(2)(3)(4)(5)(6)(7)
IH-9	AMBIRAD VPLUS150	CE & R LAB C121	TUBE	150	40	NAT. GAS	120/1/60	1.2	4	200	18	(1)(2)(3)(4)(5)(6)(7)

(1) MOUNT PER MANUFACTURER'S RECOMMENDATIONS AS HIGH AS POSSIBLE.
(2) GAS SUPPLY PRESSURE SHALL BE 5-10 INCH W.C.
(3) UNIT COMPLETE WITH GAS VALVE, ALUMINUM REFLECTORS, FACTORY GAS COCK, REFLECTOR END CAPS, HOT SURFACE IGNITION, AND ALL ACCESSORIES REQUIRED FOR MOUNTING.
(4) CAPACITY AT SEA LEVEL.
(5) MINIMUM MOUNTING HEIGHT SHALL BE 16'-0" (IH-1 THRU 6) AND 18'-0" (IH-7, 8, 9)
(6) INSTALL PER MANUFACTURER'S RECOMMENDED CLEARANCES: 6" ABOVE REFLECTOR, 20" ABOVE BURNER, 74" BENEATH TUBES, 39" SIDES, 18" FROM END OF TUBE.
(7) CONTROL: ATC.

SPLIT AIR CONDITIONING UNIT SCHEDULE

ID	MANUFACTURER	LOCATION	COOLING CAPACITY RANGE (MBH)	INDOOR UNIT MODEL	INDOOR UNIT CFM	INDOOR UNIT DIMENSIONS WxDxH (IN)	INDOOR UNIT WEIGHT (LBS)	INDOOR UNIT MCA (1) (AMPS)	INDOOR UNIT MOCP (AMPS)	INDOOR UNIT VOLT	INDOOR UNIT PHASE	INDOOR UNIT HZ.	OUTDOOR UNIT MODEL	OUTDOOR UNIT WEIGHT (LBS)	OUTDOOR UNIT DIMENSIONS WxDxH (IN)	OUTDOOR UNIT MCA (1) (AMPS)	OUTDOOR UNIT MOCP (AMPS)	OUTDOOR UNIT VOLT	OUTDOOR UNIT PHASE	OUTDOOR UNIT HZ.	EFFICIENCY SEER	REFRIGERANT	NOTES
AC-1, CU-1	FUJITSU 18CL	ELECTRICAL A121	19.0-5.5	ASU18CL	412-218	31x9x11	20	1	15	208	1	60	AOU18CL	88	34x12x23	16	20	208	1	60	19	R410A	(1)(2)(3)(4)(5)(6)(7)
AC-2, CU-2	FUJITSU 24CL1	MAIN ELECTRICAL C109	24.0-3.1	ASU24CL1	659-365	39x9x13	31	1	15	208	1	60	AOU24CL1	88	34x12x24	10.5	20	208	1	60	17.5	R410A	(1)(2)(3)(4)(5)(6)(7)
AC-3, CU-3	FUJITSU 36CLX1	IT LAB A209	34.1-9.9	ASU36CLX	706-365	40x9x13	31	1	15	208	1	60	AOU36CLX	137	36x13x33	22	30	208	1	60	15	R410A	(1)(2)(3)(4)(5)(6)(7)
AC-4, CU-4	FUJITSU 36CLX1	SERVER / IT STORAGE A210	34.1-9.9	ASU36CLX	706-365	40x9x13	31	1	15	208	1	60	AOU36CLX	137	36x13x33	22	30	208	1	60	15	R410A	(1)(2)(3)(4)(5)(6)(7)
AC-5, CU-5	FUJITSU 18CL	IT WORKROOM C204	19.0-5.5	ASU18CL	412-218	31x9x11	20	1	15	208	1	60	AOU18CL	88	34x12x23	16	20	208	1	60	19	R410A	(1)(2)(3)(4)(5)(6)(7)
AC-6, CU-6	FUJITSU 12RLS	ELEV. EQ. C117	14.5-3.8	ASU12RLS	430-177	31x9x12	24	1	15	208	1	60	AOU12RLS	88	31x12x24	15	20	208	1	60	19.7	R410A	(1)(2)(3)(4)(5)(6)(7)
AC-7, CU-7	FUJITSU 36CLX1	SERVER / IT STORAGE A210	34.1-9.9	ASU36CLX	706-365	40x9x13	31	1	15	208	1	60	AOU36CLX	137	36x13x33	22	30	208	1	60	15	R410A	(1)(2)(3)(4)(5)(6)(7)
AC-8, CU-8	FUJITSU 36CLX1	SERVER / IT STORAGE A210	34.1-9.9	ASU36CLX	706-365	40x9x13	31	1	15	208	1	60	AOU36CLX	137	36x13x33	22	30	208	1	60	15	R410A	(1)(2)(3)(4)(5)(6)(7)

(1) SINGLE POINT POWER CONNECTION FOR INDOOR AND OUTDOOR UNITS. ALTERNATIVE MANUFACTURER'S MAY DIFFER. DISCONNECT BY DIV. 26.
(2) SYSTEM COMPLETE WITH FACTORY SUPPLIED, FIELD INSTALLED OPTIONS AS FOLLOWS: LOW AMBIENT TO 0°F; WINTER START CONTROL; LIQUID LINE SOLENOID VALVE; CRANK CASE HEATER; SNOW/ICE STAND; WIRED T-STAT WITH ON/OFF COOL; TXV AND ROOM SETPOINT TEMP OPTIONS; INTEGRAL CONDENSATE DRAIN PUMP.
(3) ELECTRICAL: COMPLETE WITH INTEGRAL STARTER. DISCONNECT BY DIV. 26. (QTY (2). 1 EA. FOR INDOOR AND OUTDOOR UNIT)
(4) MAX OUTDOOR SOUND LEVEL 56dbA.
(5) REFRIGERANT LINE SIZED IN ACCORDANCE WITH MANUFACTURER'S SUGGESTED LINE SIZE.
(6) EQUIPPED WITH VARIABLE SPEED INVERTER DRIVEN COMPRESSOR PROVIDING THE RANGE OF CAPACITIES NOTED. MODULATING COMPRESSOR SPEED TO REDUCE CYCLING.

UNIT HEATER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	DISCHARGE	AIR AIRFLOW RATE (CFM)	AIR CAPACITY (BTU/H)	FLUID ENTERING / LEAVING TEMP. (°F)	FLUID FLOW RATE (GPM)	FLUID ENTERING/ LEAVING TEMP. (°F)	FLUID WORKING FLUID	FLUID HEAD LOSS (FT)	ELECTRICAL MOTOR SIZE (HP)	ELECTRICAL MOTOR SPEED (RPM)	ELECTRICAL AMPS	ELECTRICAL VOLT/PH/HZ	PHYSICAL CABINET DIMENSIONS LxWxH (IN)	PHYSICAL WEIGHT (LBS)	NOTES
UH-1	RITTLING RH-63	WAREHOUSING LAB C101	HORIZONTAL	1,120	26,550	60/82.3	4.7	150/130	WATER	0.5	1/10	1550	1.3	115/1/60	26/13/19	61	(1)(2)
UH-2	RITTLING RH-63	WAREHOUSING LAB C101	HORIZONTAL	1,120	26,550	60/82.3	4.7	150/130	WATER	0.5	1/10	1550	1.3	115/1/60	26/13/19	61	(1)(2)
UH-3	RITTLING RH-33	BOILER C203	HORIZONTAL	630	15,750	60/87.2	2.5	150/130	WATER	0.12	1/15	1550	0.72	115/1/60	20/13/19	48	(1)(2)

(1) CAPACITIES BASED ON 60 DEGREE EAT AT 5,070 FEET ELEVATION.
(2) EQUIPPED WITH FACTORY MOUNTED STARTER AND DISCONNECT.

ROOF HOOD SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	SERVICE	TYPE	AIR AIR FLOW RATE (CFM)	AIR MAX. A.P.D. (IN H20)	SIZE HOOD DIMENSIONS L x W x H (IN)	SIZE THROAT DIMENSIONS (IN)	SIZE THROAT AREA (SQ. FT)	WEIGHT (LBS)	NOTES
RH-1	GREENHECK FGI	ROOF	BOILER ROOM VENTILATION	GRAVITY INTAKE	1640	0.044	42 x 48 x 19	26 x 26	4.69	100	(1)(2)

(1) ALL CAPACITIES BASED AT 5,070 FEET ELEVATION.
(2) DUCTED GRAVITY INTAKE HOOD. COMPLETE WITH INSECT SCREEN, PREFABRICATED ROOF CURB, AND MOTORIZED BACKDRAFT DAMPER. DAMPER TO BE INTERLOCKED TO OPEN WHEN EF-15 ENERGIZES.

FAN COIL SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIR MAXIMUM AIRFLOW RATE (CFM)	AIR HEATING CAPACITY (BTU/HR)	AIR EXTERNAL STATIC PRESSURE (IN. WATER)	FLUID ENTERING / LEAVING TEMP. (°F)	FLUID FLOW RATE (GPM)	FLUID ENTERING/ LEAVING TEMP. (°F)	FLUID WORKING FLUID	FLUID HEAD LOSS (FT)	ELECTRICAL MCA	ELECTRICAL MOP	ELECTRICAL MOTOR SIZE (HP)	ELECTRICAL VOLT/PH/HZ	PHYSICAL LENGTH/ WIDTH/ HEIGHT (IN)	PHYSICAL WEIGHT (LBS)	NOTES
FC-1	WILLIAMS HP-008	MEDICAL ASSIST CLASS A101	DUCTED	580	16,385	0.48	60/90.6	1.6	150/130	WATER	1.8	4.0	15	1/4	120/1/60	32/26/17	140	(1)(2)(3)
FC-2	WILLIAMS HP-018	CONSTRUCTION TECH LAB C103	DUCTED	1,140	35,116	0.47	60/93.5	3.5	150/129	WATER	2.1	8.0	15	1/4	120/1/60	32/50/17	260	(1)(2)(3)

(1) CAPACITIES BASED ON 5,070 FEET ELEVATION AND 60 DEGREE ENTERING AIR TEMPERATURE.
(2) EQUIPPED WITH FACTORY MOUNTED STARTER, DISCONNECT, AND ALL ACCESSORIES REQUIRED FOR CEILING MOUNTING.
(3) CONTROL: WALL MOUNTED THERMOSTAT.

HOT WATER CABINET UNIT HEATER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	MOUNTING ARRANGEMENT	AIR AIRFLOW RATE (CFM)	AIR CAPACITY (BTU/H)	FLUID ENTERING / LEAVING TEMP. (°F)	FLUID FLOW RATE (GPM)	FLUID ENTERING/ LEAVING TEMP. (°F)	FLUID WORKING FLUID	FLUID HEAD LOSS (FT)	ELECTRICAL MOTOR SIZE (HP)	ELECTRICAL MOTOR SPEED (RPM)	ELECTRICAL AMPS	ELECTRICAL POWER INPUT (W)	ELECTRICAL VOLT/PH/HZ	PHYSICAL CABINET DIMENSIONS LxWxH (IN)	PHYSICAL WEIGHT (LBS)	NOTES
CUH-1	RITTLING RC-390-02	FIRE RISER A130	CEILING SURFACE MOUNT	275	7160	60/88	0.5	150/130	WATER	0.5	1/40	1080	0.55	60	120/1/60	38/27/10	85	(1)(2)(3)
CUH-2	RITTLING RFRC-420-02	1ST LVL CORRIDOR	CEILING RECESSED	275	7160	60/88	0.5	150/130	WATER	0.5	1/40	1080	0.55	60	120/1/60	38/27/10	85	(1)(2)(3)

(1) CAPACITIES BASED ON 5,070 FEET ELEVATION AND 60 DEGREE ENTERING AIR TEMPERATURE.
(2) EQUIPPED WITH FACTORY MOUNTED STARTER, DISCONNECT, AND ALL ACCESSORIES REQUIRED FOR CEILING MOUNTING.
(3) CONTROL: WALL MOUNTED THERMOSTAT.

BOILER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	DRAFT TYPE	FUEL TYPE	INPUT LOAD (MBH)	OUTPUT LOAD MBH	FLUID FLOW RATE (GPM)	FLUID ENTERING/ LEAVING TEMP. (°F)	FLUID WORKING FLUID	FLUID HEAD LOSS (FT)	ELECTRICAL VOLT/PH/HZ	ELECTRICAL FLA	ELECTRICAL CONTROL CIRCUIT	PHYSICAL STACK DIAMETER (IN)	PHYSICAL WIDTH/ DEPTH/ HEIGHT (IN)	WEIGHT (LBS)	NOTES
B-1	AERCO BMK-3.0LN	BOILER C203	(2)	(2)	NAT. GAS	3000	2470.5	165	140/110	WATER	5	460/3/60	5	(4)	8	28/64/79	2580	(1)(2)(3)(4)(5)(6)(7)(8)
B-2	AERCO BMK-3.0LN	BOILER C203	(2)	(2)	NAT. GAS	3000	2470.5	165	140/110	WATER	5	460/3/60	5	(4)	8	28/64/79	2580	(1)(2)(3)(4)(5)(6)(7)(8)

(1) CAPACITY BASED ON 5,070 FEET ELEVATION.
(2) FORCED DRAFT NATURAL GAS, HIGH EFFICIENCY CONDENSING
(3) BOILERS SHALL BE EQUIPPED WITH A RELAY TO SHUT DOWN THE BOILER IN THE EVENT THAT THE ATC EMERGENCY STOP PUSH BUTTON IS ACTIVATED. COORDINATE WITH ATC CONTRACTOR.
(4) EQUIPPED WITH 4-20 mA DDC WATER TEMPERATURE CONTROL AND HIGH LIMIT CONTROL. PROVIDE BOILER COMMUNICATIONS MODULE. (COORDINATE CONTACTS AND RELAYS WITH CONTROLS CONTRACTOR). TEMPERATURE CONTROL SHALL BE ACCURATE TO WITHIN 5-DEGREES OF SETPOINT, 20:1 TURNDOWN RATIO.
(5) COMPLETE WITH ALARM BELLS AND HORNS, UL-CONTROL SYSTEM; EQUIPPED FOR LEAD/LAG SYSTEM WITH OUTDOOR AIR RESET. SEE CONTROL SEQUENCE.
(6) EQUIPPED WITH ASME 75 PSI RATED BOILER RELIEF VALVE & HIGH LIMIT CONTROL.
(7) BOILER SHALL BE EQUIPPED WITH FACTORY FURNISHED 2-PSIG TO OPERATING PRESSURE GAS PRESSURE REGULATOR AND GAS TRAIN.
(8) LOW Nox LESS THAN 20 PPM EMISSIONS AT ALL FIRINGS.

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project:
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project#: 11.0420
date: 1/20/11

revisions:
2 Addendum 2 2-10-2012
3 Addendum 3 2-17-2012

MECHANICAL SCHEDULES

sheet:
ME604

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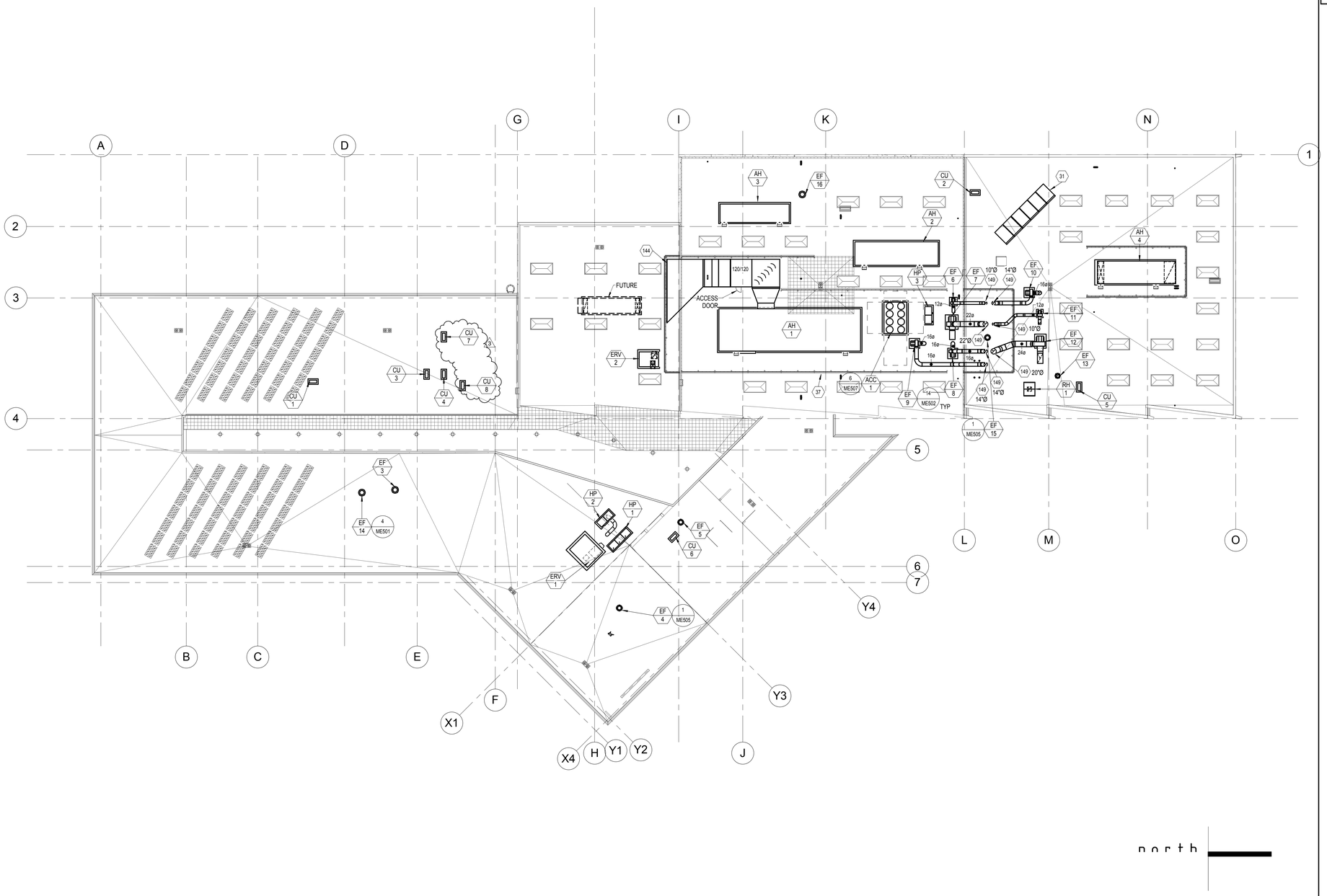

1 ROOF MECHANICAL PLAN
SCALE: 1/16" = 1'-0"

SHEET KEYNOTES

31 PHOENIX EVOLUTION SOLAR DOMESTIC HOT WATER HEATING KIT #2. MODEL #S8600-16. KIT COMPLETE WITH 3/4" LINE SET, PUMP STATION ASSEMBLY, PANEL CONNECTIONS, AUTO AIR VENTS, SHUT OFF AIR VENT VALVE, TEE FOR AUTO AIR VENT, SIX BRASS ADAPTERS TO 3/4" SOLAR FLEX LINE, TWO BRASS ADAPTERS 1" NPT X 1" BSP FOR CONNECTION OF 3/4" LINE SET TO TANK, 3/4" FLEXIBLE LINE CONNECTION KIT, UV INSULATED SOLAR FLEX PIPES WITH SENSOR WIRE, BS PULSE CONTROLLER FOR DUAL PUMP STATION, TACO CAST IRON PUMP 1" BSP 007-T7, SOLAR HI-TEMP ANTIFREEZE, 4.5 GALLON EXPANSION TANK, SOLAR CONTROL 2W1 PUMP SPEED TRIAC, 2 TEMP SENSORS, VBUS CONNECTION. CONNECT SOLAR HOT WATER HEATING SYSTEM TO PHOENIX PH130-805 STAINLESS STEEL TANK.

37 ARCHITECTURAL SCREEN WALL AROUND MECHANICAL ROOFTOP EQUIPMENT AS SHOWN. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.

144 TRANSITION TO 276X72 & EXTEND & CONNECT TO INTAKE LOUVER ON SCREENWALL. COORDINATE WITH SCREENWALL MANUFACTURER.

149 SHOP EXHAUST DUCT TO RUN EXPOSED ON THE ROOF AND THEN RISE UP IN SCREENWALL ENCLOSURE TO DISCHARGE 1 FT ABOVE SCREENWALL. EXHAUST DISCHARGE DUCT TO BE THE SAME SIZE AS INLET DUCT. VERTICAL SHAFT SHALL CONCENTRICALLY TAPER TO DIAMETER NOTED TO ACHIEVE 3000 FPM MINIMUM DISCHARGE VELOCITY. SEE DETAIL 14/ME502.

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3	Addendum 3	2-17-2012

ROOF MECHANICAL PLAN

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MH130

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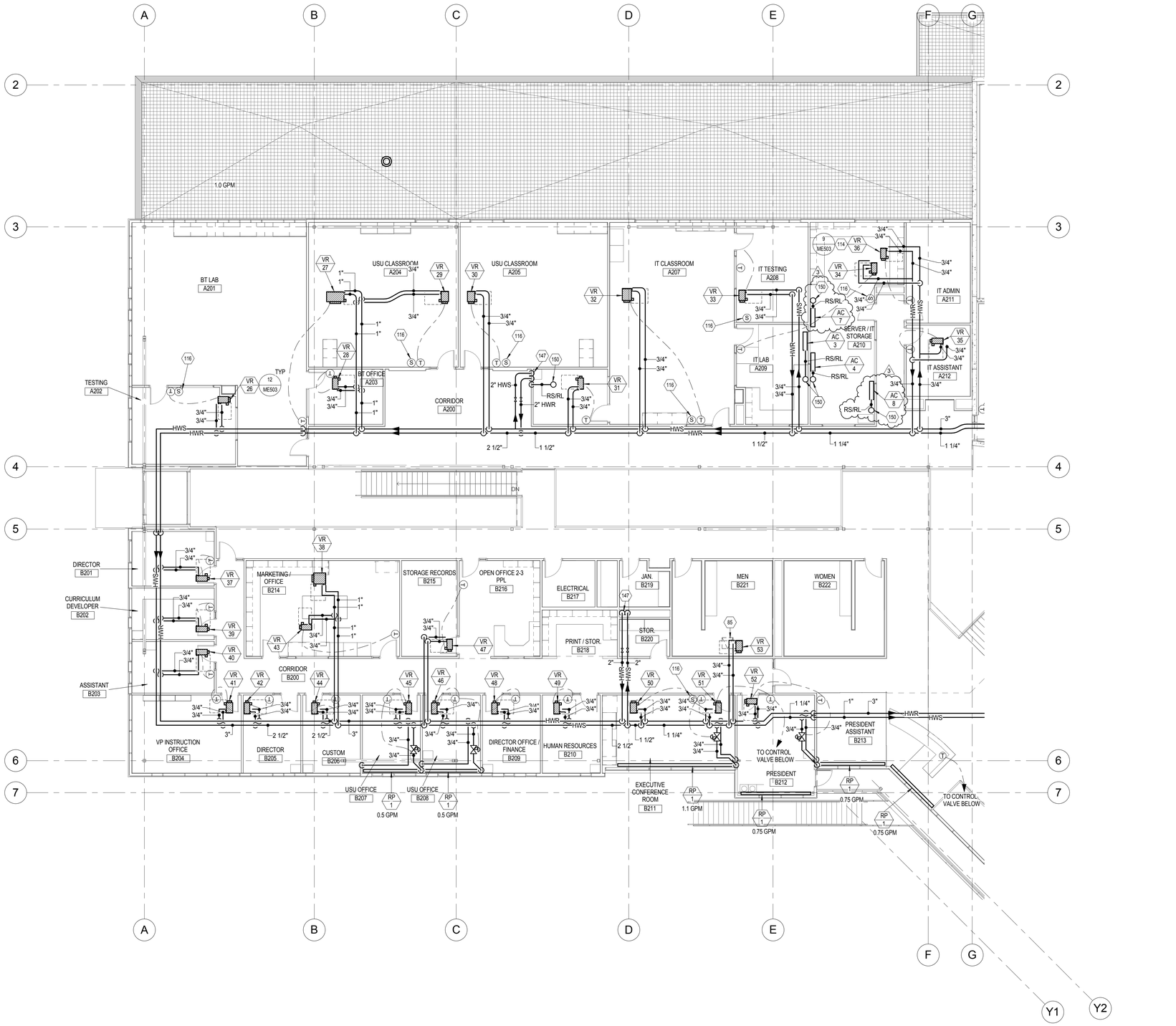


1 Lvl 2 Mechanical Piping Plan 1
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

85 PROVIDE 24" X 24" CEILING ACCESS PANEL. COORDINATE LOCATION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND LOCATION OF MECHANICAL EQUIPMENT.

114 PROVIDE 3-WAY VALVE.

116 CO2 SENSOR. MOUNT BETWEEN 3'-0" AND 6'-0".

147 HOT WATER SUPPLY AND RETURN DOWN. SEE LEVEL 1 MECHANICAL PIPING PLAN FOR CONTINUATION.

150 REFRIGERANT LINES UP TO ROOFTOP CONDENSING UNIT. SEE ROOF MECHANICAL PLAN FOR CONTINUATION. SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.

MP121 GENERAL SHEET NOTES

1 PROVIDE FLEXIBLE EXPANSION JOINTS ON ALL DUCTWORK, PIPING FIRE SPRINKLING, PLUMBING ETC. WHERE ANY SYSTEM CROSSES THE BUILDING EXPANSION JOINT. SEE ARCHITECTURAL PLAN FOR LOCATION OF BUILDING EXPANSION JOINT.

2 INSTALL VAV BOXES PER DETAIL 12/ME503 UNLESS OTHERWISE NOTED.

3 PROVIDE ACCESS TO ALL VALVES AND DAMPERS LOCATED ABOVE CEILINGS.

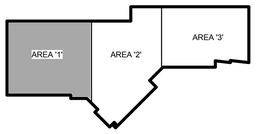
4 LOCATE AIR VENTS AT ALL DOWNTURNS IN PIPING ELEVATION. INSTALL IN ACCESSIBLE LOCATION.

5 ALL PIPING IN SHAFTS SHALL BE WELDED OR BRAZED.

6 COORDINATE ALL PLUMBING PIPING, DUCTWORK, EQUIPMENT, CLEARANCE/ACCESS AND ALLOTHER APPURTENANCES WITH FIRE SPRINKLING, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, AND ALL OTHER TRADES. COORDINATION SHALL BE MADE ON 1/4 SCALE COORDINATION SHOP DRAWINGS AS DETAILED IN THE SPECIFICATIONS. SUBMIT SHOP DRAWINGS TO ENGINEER. ANY CONFLICTS NOT SPECIFICALLY NOTED ON THE COORDINATION DRAWINGS SHALL BE RESOLVED AT THE CONTRACTORS EXPENSE.

GENERAL VRV NOTES

1 VRV REFRIGERANT LINES SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES. BRANCH PIPING MUST BE SIZED TO ENSURE EQUAL PRESSURE DROP AND FLOW. HIGH EFFICIENCY REFRIGERANT FITTINGS (REFNET) MUST BE USED - NO TEES ARE ALLOWED IN REFRIGERANT PIPING.



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LEVEL 2 MECHANICAL PIPING PLAN 1

sheet:

MP121

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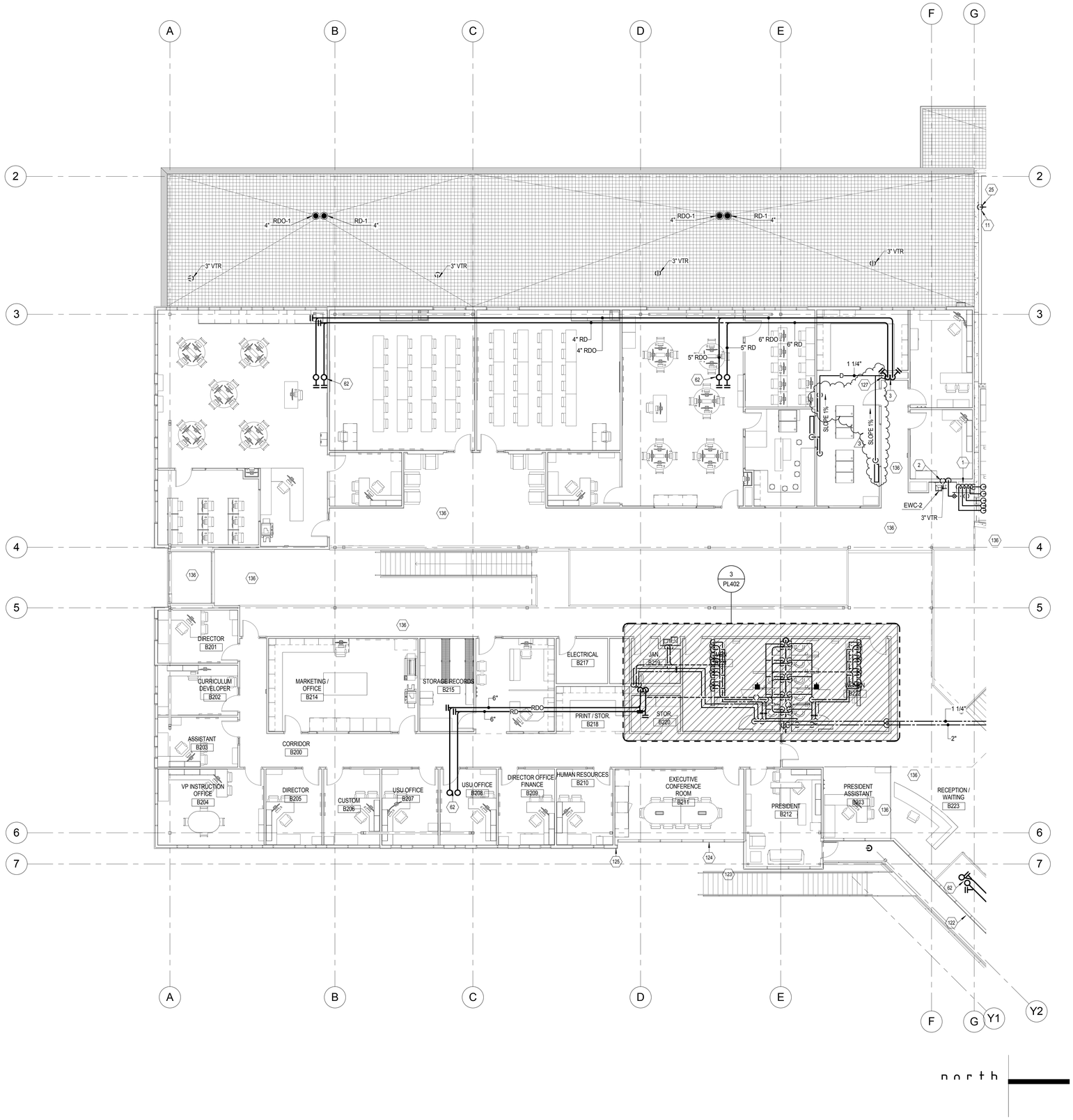


1 Lvl 2 Plumbing Plan 1
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

1 DOMESTIC HOT, COLD, 140, AND 140 RECIRCULATION PIPING AND GAS PIPING DOWN. SEE SHEET PL111 FOR CONTINUATION.

2 1 1/2" WASTE LINE DOWN.

3 ROOF DRAIN AND ROOF DRAIN OVERFLOW DOWN.

11 1 1/2" VENT FROM BELOW.

25 SURFACE MOUNT PIPING ON WALL. OFFSET TO SURFACE MOUNT ON FURRED OUT WALL ABOVE.

62 TO ROOF DRAIN AND ROOF DRAIN OVERFLOW.

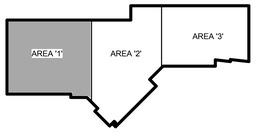
122 720 WATTS HEAT TRACING FOR RAIN GUTTER OVER PRESIDENTS WALKWAY.

124 250 WATTS HEAT TRACING FOR RAIN GUTTER NEXT TO PRESIDENTS OFFICE.

125 400 WATTS HEAT TRACING FOR DOWN SPOUT NEXT TO PRESIDENTS OFFICE. COORDINATE EXACT LOCATION WITH ARCHITECT.

127 DROP 1 ¼" CONDENSATE DRAIN DOWN SHAFT AND CONNECT TO RAIN WATER PIPING 4'-0" ABOVE FINISHED FLOOR.

136 PROVIDE CONCEALED TYPE FIRE SPRINKLER HEADS IN ALL MAIN ENTRY, LOBBY, COORIDOR & PUBLIC AREAS WITH CEILING. TYPICAL.



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LEVEL 2 PLUMBING PLAN 1

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PL121

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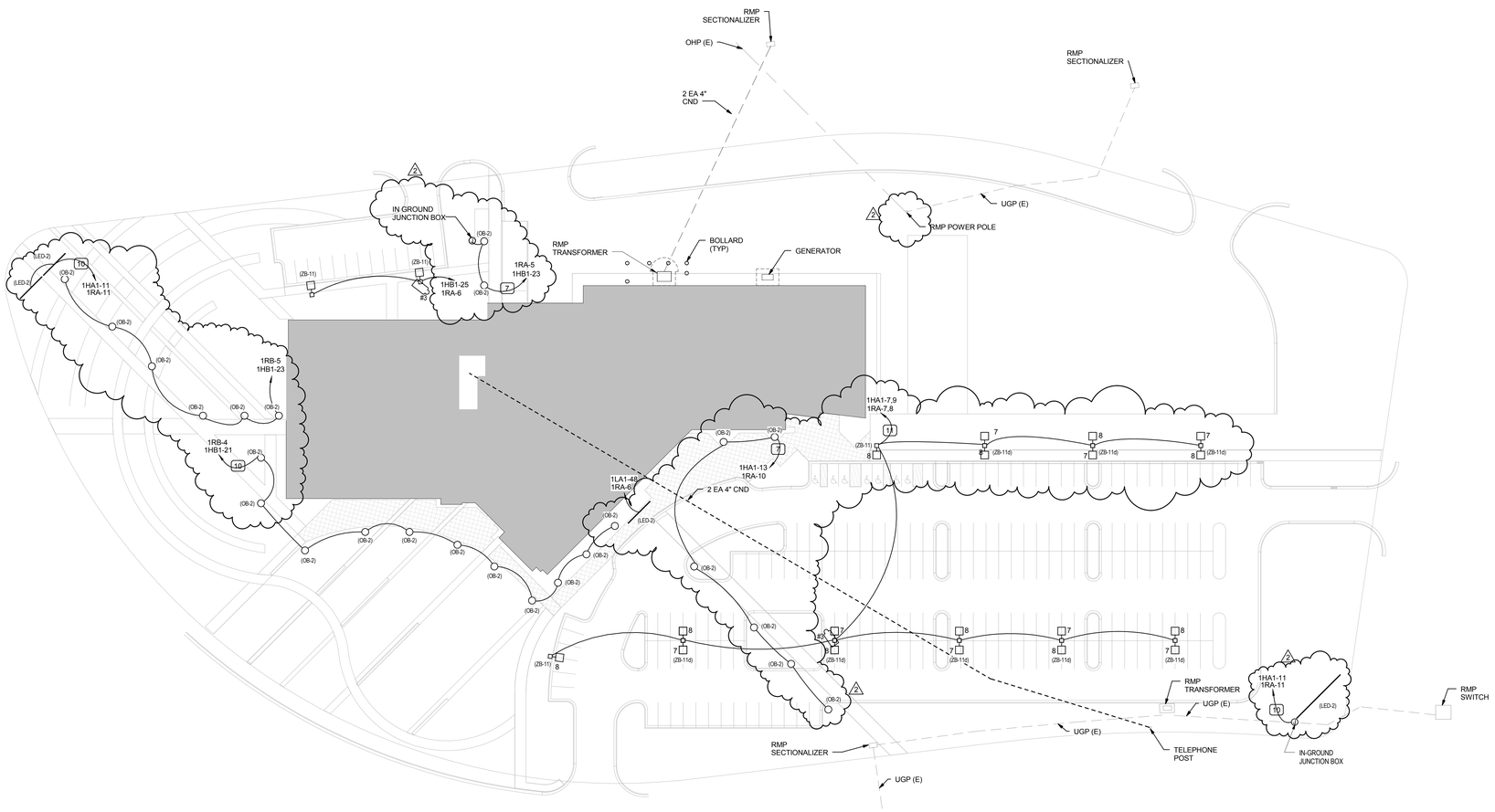

1 SITE ELECTRICAL PLAN

SCALE: 1" = 40'-0"

PROJECT NORTH TRUE NORTH

GENERAL SHEET NOTES

SHEET KEYNOTES

01/18/2012

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Electrical Site Plan

sheet:

ES101

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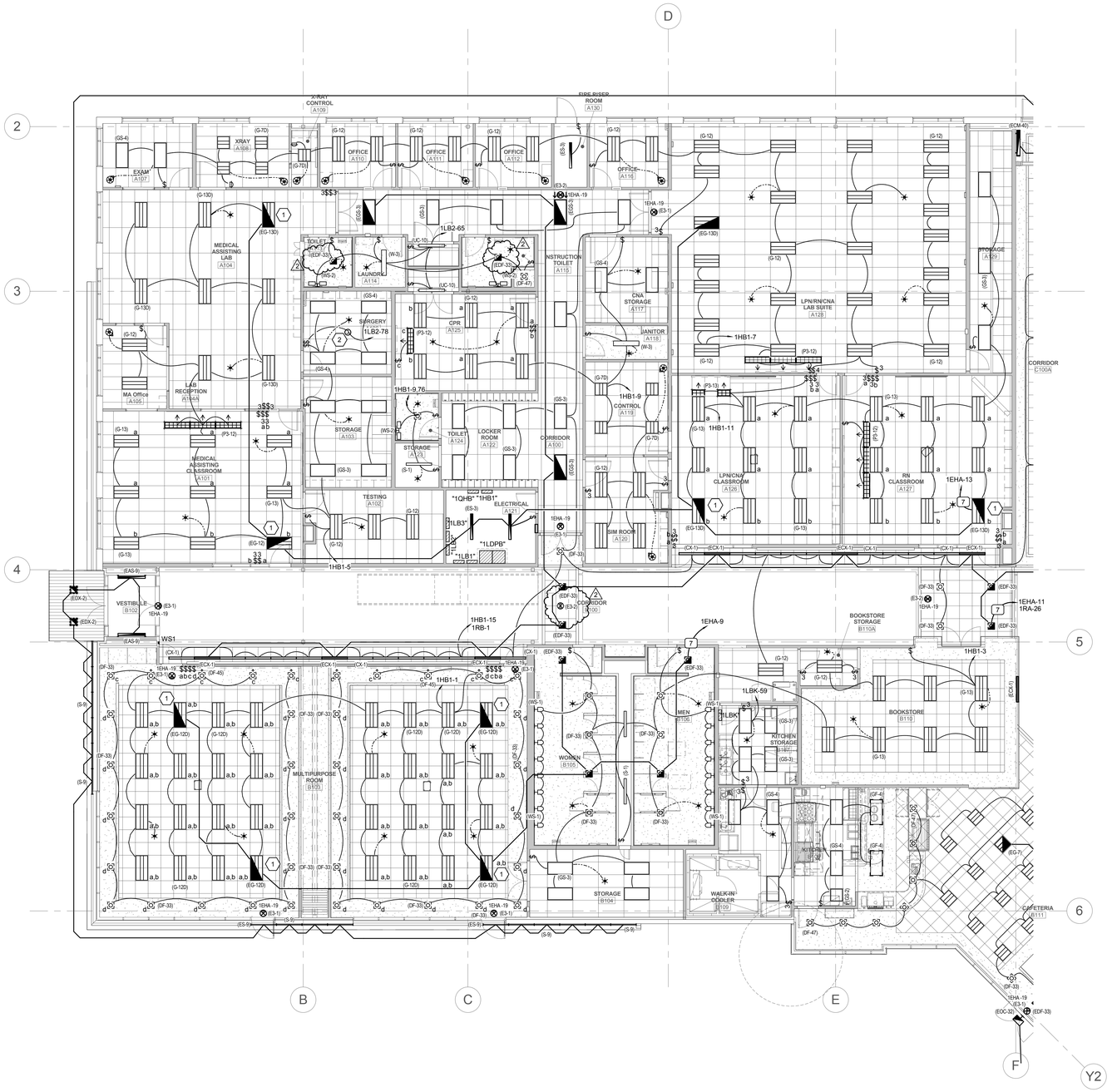
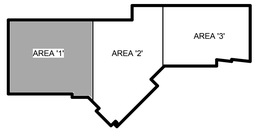


1 LEVEL 1 LIGHTING PLAN - AREA '1'

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

PROJECT NORTH TRUE NORTH



GENERAL SHEET NOTES

1. INSTALL LIGHT FIXTURES INLINE AND CENTERED.
2. COORDINAT ALL LIGHT FIXTURE MOUNTING HEIGHTS WITH ARCHITECT
3. ARCHITECT TO SELECT ALL LIGHT FIXTURE FINISHES
4. CIRCUIT EXIT SIGNS ON SEPERATE LIGHTING CIRCUITWT
5. COVE/CLOUD LIGHTING SHALL HAVE EVEN ILLUMINATION THE ENTIRE LENGHT OF THE COVE/CLOUD. PROVIDE THE NUMBER OF FIXTURES REQUIRED TO EVENLY ILLUMINATE THE COVE/CLOUD. STAGGAR COVE/CLOUD LIGHITNG OR PROVIDE DIFFERENT LENGTHS OF THE FIXTURE TO ILLUMINATE THE ENTIRE COVE/CLOUD.
6. LOCATE ALL OCCUPANCY SENSORS MINIMUM OF 6'-0" FROM SUPPLY AIR DIFFUSERS AND 3'-0" FROM RETURN AIR DIFFUSERS.
7. UNLESS NOTED OTHERWISE, CIRCUIT ALL EMERGENCY LIGHTING FIXTURES DIRECTLY TO CIRCUIT CIRCUIT BREAKER FOR ALWAYS ON OPERATION.

SHEET KEYNOTES

1. BASE BID: PROVIDE CIRCUIT FROM EMERGENCY PANEL TO EMERGENCY LIGHTING FIXTURE AND CAP FOR FUTURE USE. ADD ALTERNATE #7: DELETE BATTERY PACK FROM FIXTURE, ADD TYPE ET TRANSFER DEVICE AND CIRCUIT PER DETAIL 5/EL501.
2. PROVIDE JUNCTION BOX IN CEILING FOR OWNER FURNISHED SURGICAL LIGHT.

REGISTERED PROFESSIONAL ENGINEER No. 7862 STATE OF UTAH

01/18/2012

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1	ADDENDUM 2	02/10/2012
2	ADDENDUM 3	02/17/2012

Level 1 Lighting Plan - Area '1'

sheet:

EL111

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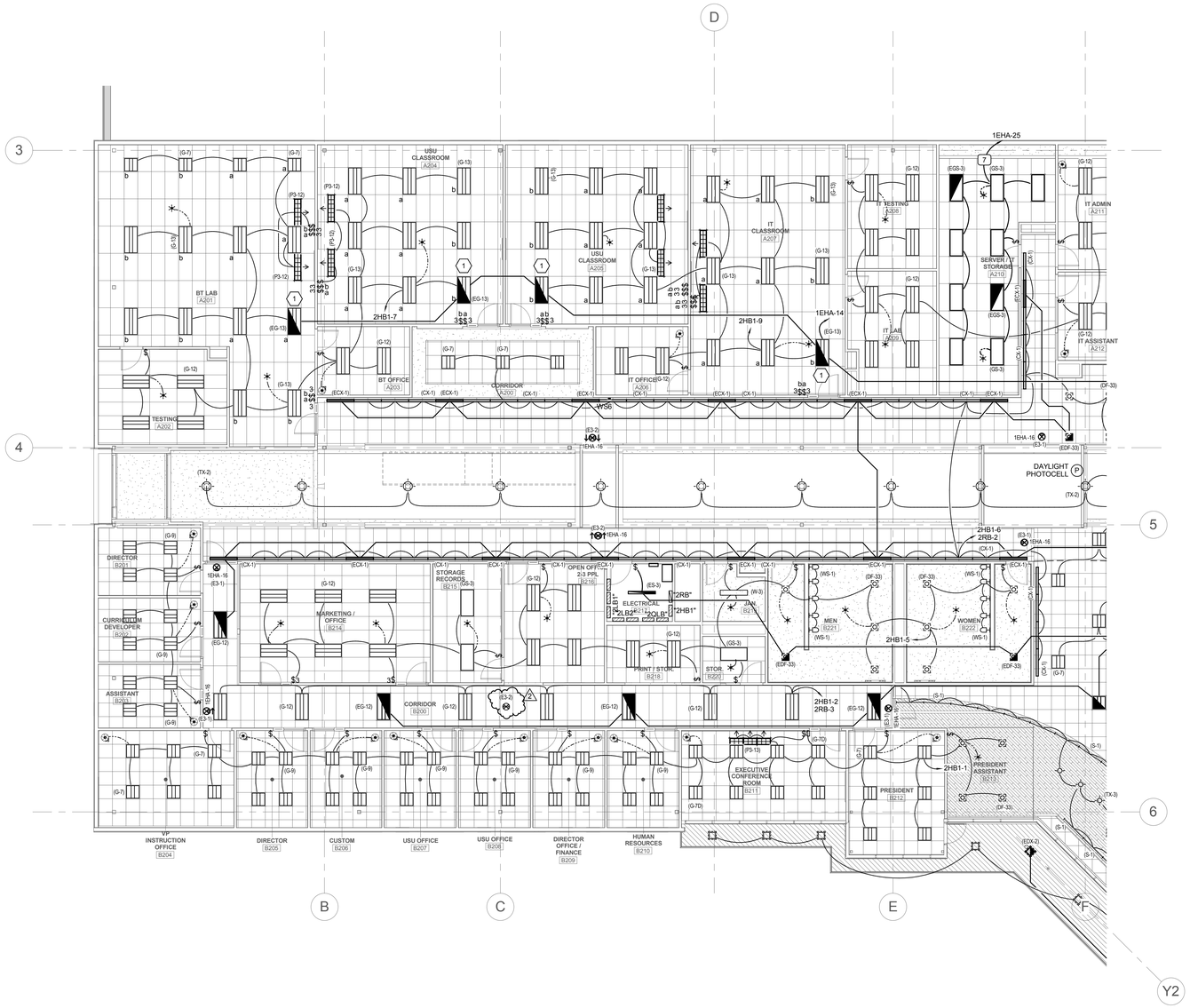


1 LEVEL 2 LIGHTING PLAN - AREA '1'

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

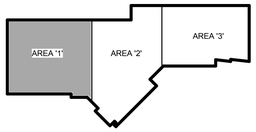
PROJECT NORTH TRUE NORTH

GENERAL SHEET NOTES

1. INSTALL LIGHT FIXTURES INLINE AND CENTERED.
2. COORDINAT ALL LIGHT FIXTURE MOUNTING HEIGHTS WITH ARCHITECT
3. ARCHITECT TO SELECT ALL LIGHT FIXTURE FINISHES
4. CIRCUIT EXIT SIGNS ON SEPERATE LIGHTING CIRCUITWT
5. COVE/CLOUD LIGHTING SHALL HAVE EVEN ILLUMINATION THE ENTIRE LENGHT OF THE COVE/CLOUD. PROVIDE THE NUMBER OF FIXTURES REQUIRED TO EVENLY ILLUMINATE THE COVE/CLOUD. STAGGAR COVE/CLOUD LIGHITNG OR PROVIDE DIFFERENT LENGTHS OF THE FIXTURE TO ILLUMINATE THE ENTIRE COVE/CLOUD.
6. LOCATE ALL OCCUPANCY SENSORS MINIMUM OF 6'-0" FROM SUPPLY AIR DIFFUSERS AND 3'-0" FROM RETURN AIR DIFFUSERS.
7. UNLESS NOTED OTHERWISE, CIRCUIT ALL EMERGENCY LIGHTING FIXTURES DIRECTLY TO CIRCUIT CIRCUIT BREAKER FOR ALWAYS ON OPERATION.

SHEET KEYNOTES

1. BASE BID: PROVIDE CIRCUIT FROM EMERGENCY PANEL TO EMERGENCY LIGHTING FIXTURE AND CAP FOR FUTURE USE. ADD ALTERNATE #7: DELETE BATTERY PACK FROM FIXTURE, ADD TYPE ET TRANSFER DEVICE AND CIRCUIT PER DETAIL 5/EL501.



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project:
TOOELE APPLIED TECHNOLOGY COLLEGE - NEW BUILDING

88 South Tooele Blvd
Tooele, UT 84074

project#: 11.0420
date: 1/20/2012

revisions :

1	ADDENDUM 2	02/10/2012
2	ADDENDUM 3	02/17/2012

Level 2 Lighting Plan - Area '1'

sheet:

EL121

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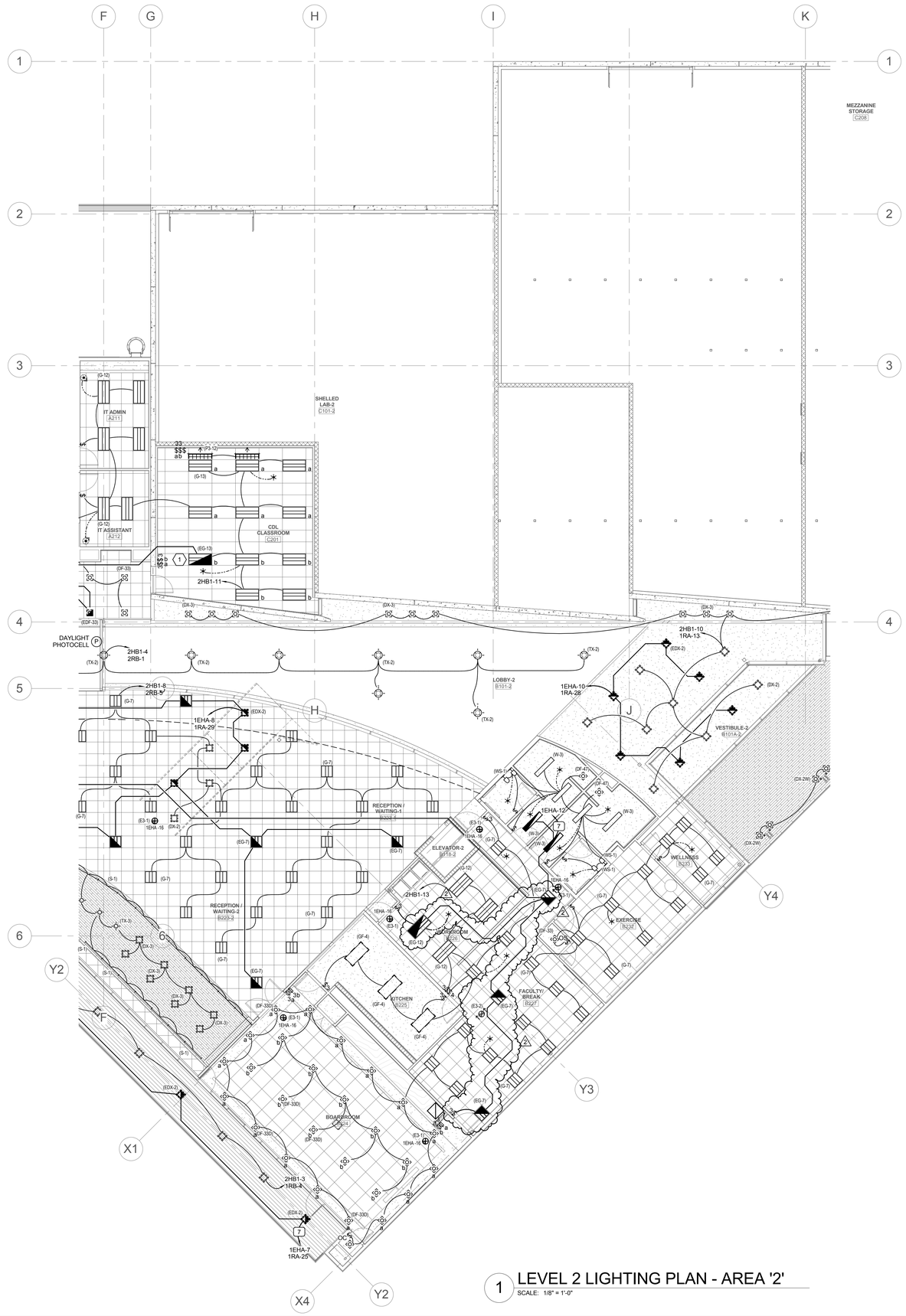
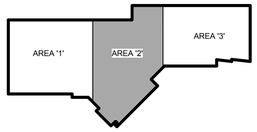


1 LEVEL 2 LIGHTING PLAN - AREA '2'

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

PROJECT NORTH TRUE NORTH



GENERAL SHEET NOTES

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2. COORDINAT ALL LIGHT FIXTURE MOUNTING HEIGHTS WITH ARCHITECT
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revisions :

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2	ADDENDUM 3	02/17/2012

Level 2 Lighting Plan - Area '2'

sheet:

EL122

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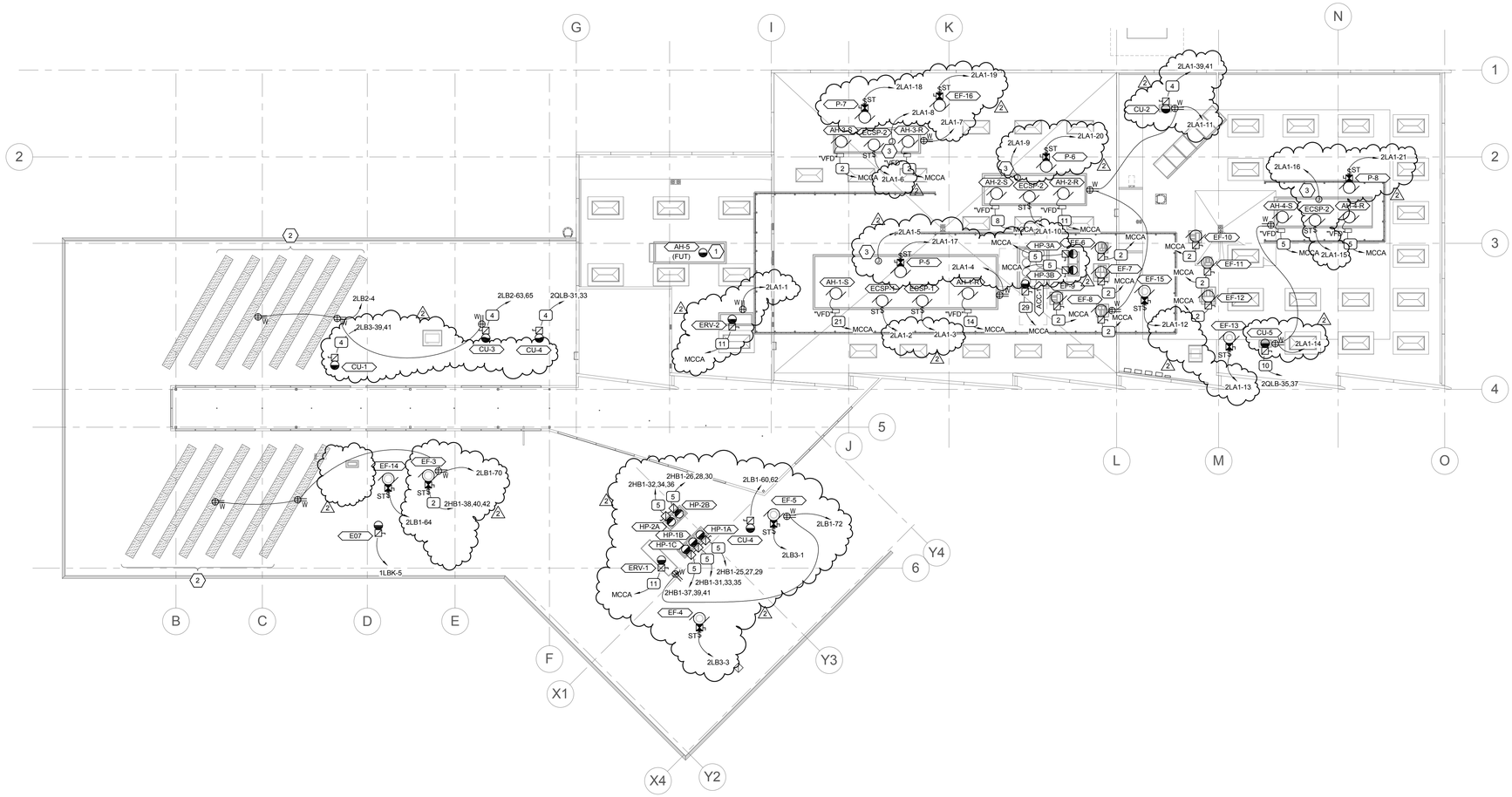

1 ROOF POWER PLAN

SCALE: 1/16" = 1'-0"

PROJECT NORTH TRUE NORTH

GENERAL SHEET NOTES

1 LOCATIONS OF MECHANICAL EQUIPMENT SHOWN IS APPROXIMATE. COORDINATE EXACT LOCATIONS WITH MECHANICAL INSTALLER PRIOR TO ROUGH-IN.

SHEET KEYNOTES

1 PROVIDE RACEWAY ONLY TO SITE OF FUTURE AH-5.

2 ROOF MOUNTED PV ARRAY. COORDINATE MOUNTING WITH STRUCTURAL.

3

REGISTERED PROFESSIONAL ENGINEER No. 7867 STATE OF UTAH

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revisions :
2 ADDENDUM 3 02/17/2012

Roof Power Plan

sheet:

EP130

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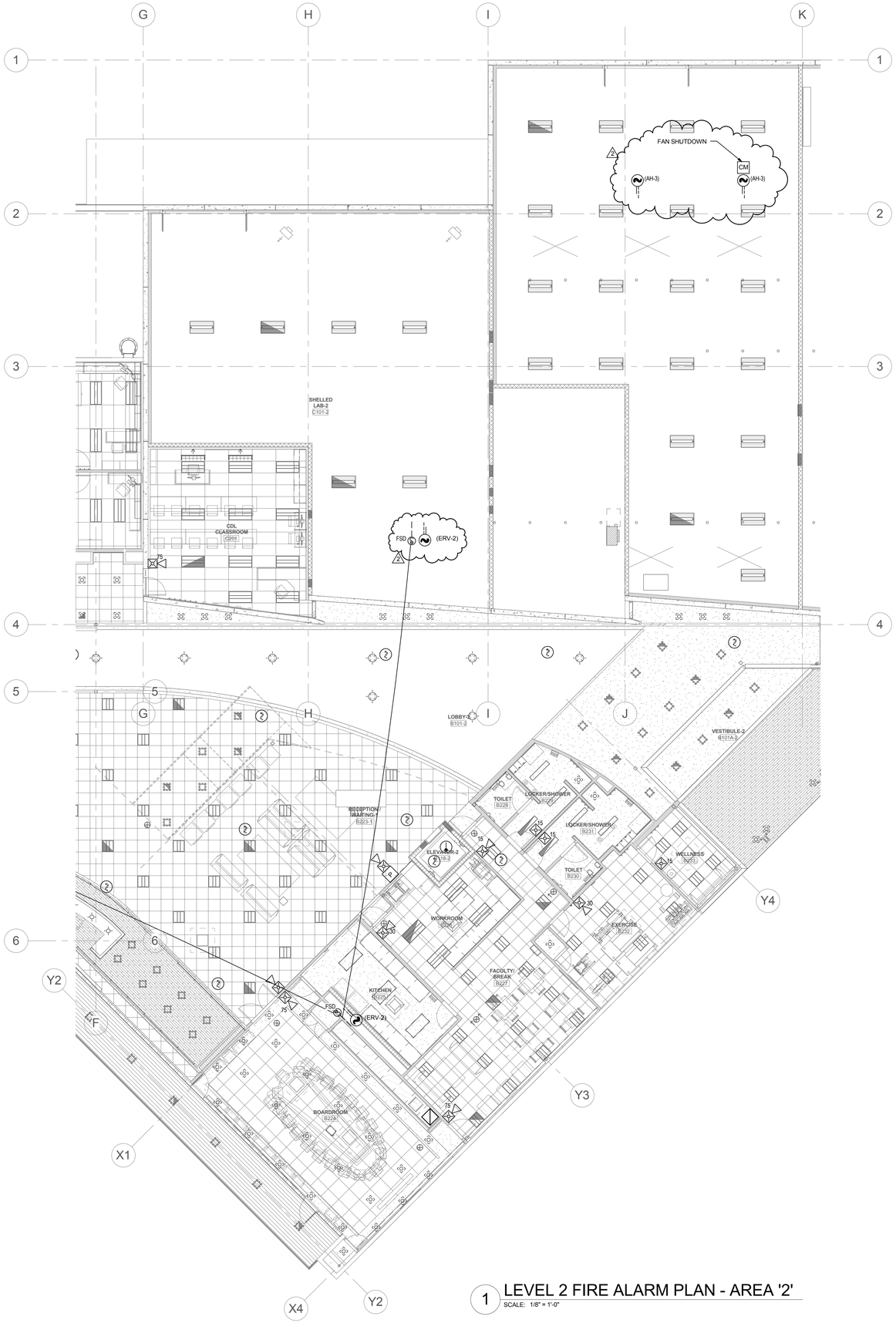

1 LEVEL 2 FIRE ALARM PLAN - AREA '2'

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

PROJECT NORTH TRUE NORTH

GENERAL SHEET NOTES

SHEET KEYNOTES

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revisions :

2	ADDENDUM 3	02/17/2012

Level 2 Fire Alarm Plan - Area '2'

sheet:

FA122

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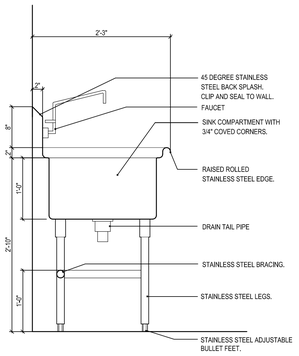
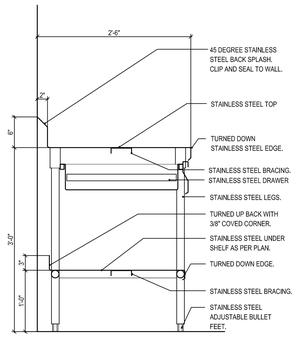


THREE COMPARTMENT SINK SECTION DETAIL (B / FS101)
SCALE: 1" = 1'-0"



WALL WORK TABLE SECTION DETAIL (C / FS101)
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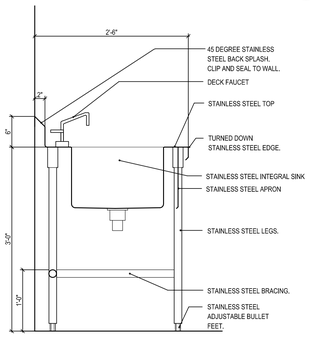
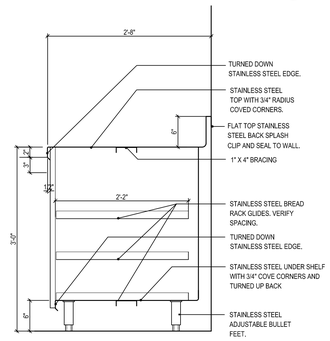
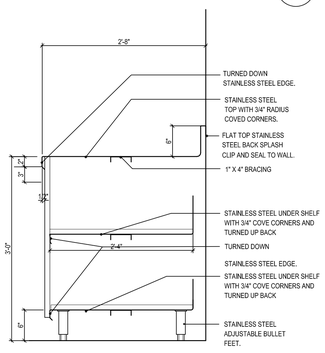


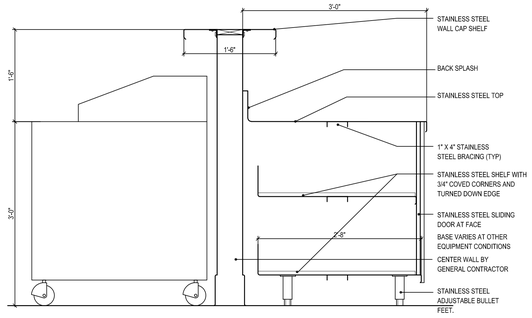
WALL WORK TABLE, SINK SECTION DETAIL (D / FS101)
SCALE: 1" = 1'-0"



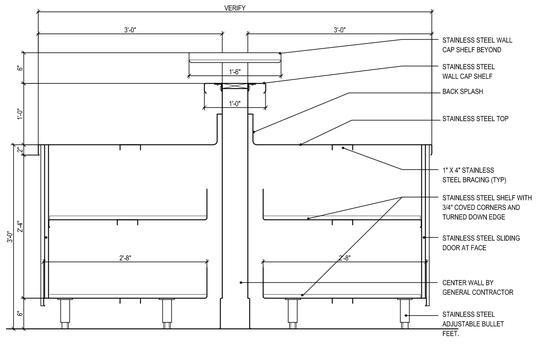
UTILITY SERVICE COUNTER, BREAD SECTION DETAIL (E / FS101)
SCALE: 1" = 1'-0"



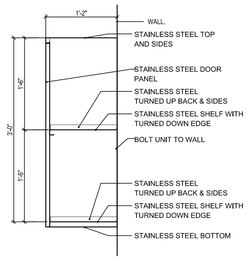
UTILITY SERVICE COUNTER SECTION DETAIL (F / FS101)
SCALE: 1" = 1'-0"



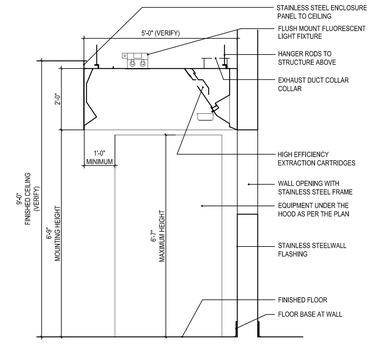
ISLAND WORK COUNTER SECTION DETAIL (G / FS101)
SCALE: 1" = 1'-0"



ISLAND WORK COUNTER SECTION DETAIL (H / FS101)
SCALE: 1" = 1'-0"



UTILITY SERVICE COUNTER SECTION DETAIL (I / FS101)
SCALE: 1" = 1'-0"



EXHAUST HOOD SECTION DETAIL (A / FS101)
SCALE: 1/2" = 1'-0"

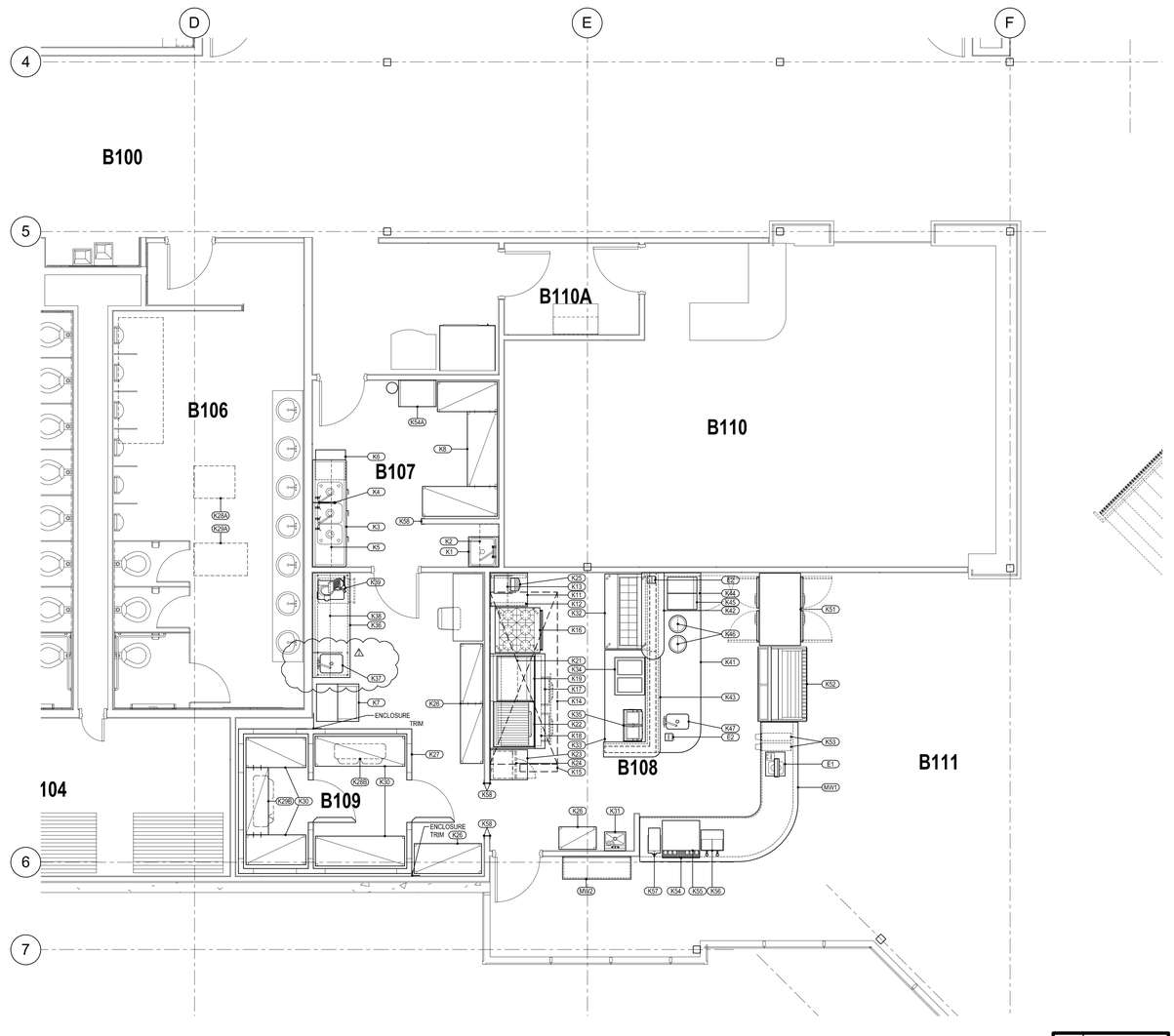
SCHEDULE: FOOD SERVICE EQUIPMENT

ITEM	QTY	UNIT	DESCRIPTION	
#K-1	1	EACH	MOP SINK: PROVIDED BY PLUMBING SECTION	
#K-2	1	EACH	STAINLESS STEEL LOCKING WALL CABINET	
#K-3	1	EACH	STAINLESS STEEL THREE COMPARTMENT SINK	
#K-4	1	EACH	PRE-RINSE SPRAY FILL FAUCET	
#K-5	1	EACH	STAINLESS STEEL WALL SHELF/POT RACK	
#K-6	1	EACH	UNDERCOUNTER DISHWASHER	
#K-7	1	EACH	ICE MAKER AND BIN	
#K-8	1	LOT	STORAGE SHELVING	
#K-9	-	-	SPARE NUMBER	
#K-10	-	-	SPARE NUMBER	
#K-11	1	EACH	STAINLESS STEEL WORK COUNTER	ADD/ALT#6
#K-12	1	EACH	BREAD RACK GUIDES	
#K-13	1	EACH	STAINLESS STEEL WALL SHELF	ADD/ALT #6
#K-14	1	EACH	STAINLESS STEEL EXHAUST HOOD: TYPE I	ADD/ALT #6
#K-15	1	SYS	FIRE PROTECTION SYSTEM	ADD/ALT #6
#K-16	1	EACH	SIX BURNER RANGE WITH CONVECTION OVEN BASE: GAS	ADD/ALT #6
#K-17	1	EACH	STAINLESS STEEL GRILL STAND CABINET	ADD/ALT #6
#K-18	1	EACH	REFRIGERATED CHEF'S BASE	ADD/ALT #6
#K-19	1	EACH	FLAT TOP GRIDDLE: GAS	ADD/ALT #6
#K-20	-	-	SPARE NUMBER	
#K-21	1	EACH	SALAMANDER BROILER	ADD/ALT #6
#K-22	1	EACH	OPEN FACE BROILER: GAS	ADD/ALT #6
#K-23	1	EACH	STAINLESS STEEL WORK COUNTER	ADD/ALT #6
#K-24	1	EACH	MICROWAVE OVEN: WITH STAINLESS STEEL WALL SHELF	
#K-25	1	EACH	ROTARY TOASTER	
#K-26	1	LOT	KITCHEN SHELVING	
#K-27	1	EACH	WALK-IN COOLER AND FREEZER	
#K-28A	1	SYS	COOLER REFRIGERATION SYSTEM: REMOTE CONDENSER	
#K-28B	1	SYS	COOLER REFRIGERATION SYSTEM: BLOWER COIL	
#K-29A	1	SYS	FREEZER REFRIGERATION SYSTEM: REMOTE CONDENSER	
#K-29B	1	SYS	FREEZER REFRIGERATION SYSTEM: BLOWER COIL	

ITEM	QTY	UNIT	DESCRIPTION
#K-30	1	LOT	WALK-IN SHELVING
#K-31	1	EACH	WALL MOUNT HAND SINK
#K-32	1	EACH	REFRIGERATED SNADWICH TABLE
#K-33	1	EACH	STAINLESS STEEL WORK COUNTER
#K-34	1	EACH	DROP-IN HOT FOOD WARMER: SINGLE SECTION
#K-35	1	EACH	PANINI GRILL: DOUBLE
#K-36	1	EACH	STAINLESS STEEL WORK COUNTER
#K-37	1	EACH	DROP-IN HAND SINK: WITH SPLASH GUARD
#K-38	1	EACH	STAINLESS STEEL WALL SHELF
#K-39	1	EACH	SLICER
#K-40	-	-	SPARE NUMBER
#K-41	1	EACH	STAINLESS STEEL SERVICE COUNTER
#K-42	1	EACH	STAINLESS STEEL PASS SHELF
#K-43	1	EACH	STAINLESS STEEL PASS SHELF
#K-44	1	EACH	UNDERCOUNTER REFRIGERATOR
#K-45	1	EACH	AUTOMATIC ESPRESSO MACHINE
#K-46	2	EACH	DROP-IN SOUP WARMERS
#K-47	1	EACH	DROP-IN UTILITY SINK
#K-48	-	-	SPARE NUMBER
#K-49	-	-	SPARE NUMBER
#K-50	-	-	SPARE NUMBER
#K-51	1	EACH	PASS-THROUGH MERCHANDISING REFRIGERATOR
#K-52	1	EACH	AMBIENT SERVE, REFRIGERATED SELF SERVE DISPLAY CASE
#K-53	6	EACH	CUP DISPENSER
#K-54	1	EACH	SODA DISPENSER: PROVIDED BY VENDER
#K-55	1	EACH	ICE MAKER
#K-56	1	EACH	COFFEE BREWER: PROVIDED BY VENDER
#K-57	1	EACH	ICE TEA DISPENSER: PROVIDED BY VENDER
#E-01	1	SYS	POS REGISTER: PROVIDED BY OWNER
#E-02	2	EACH	PRINTER: PROVIDED BY OWNER

SCHEDULE: CABINETS (PROVIDED BY OTHER SECTION)

ITEM	QTY	UNIT	DESCRIPTION
#MW-1	1	EACH	SERVICE COUNTER:
#MW-2	1	EACH	CONDIMENT COUNTER
#MW-3	1	EACH	TRASH COUNTER



1 LEVEL 1 FOOD SERVICE EQUIPMENT PLAN
1/4" = 1'-0"

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revisions:
3 Addendum 3 2/17/2012

90% CONSTRUCTION DOCUMENTS

Food Service Equipment Plan

sheet:
FS101

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PLUMBING ROUGH-IN/FINAL CONNECTION SCHEDULE

ROUGH-IN REQUIREMENTS				CONNECTION REQUIREMENTS				REMARKS
Rq#	ROUGH-IN TYPE	SIZE	HGT	#	ITEM # : EQUIPMENT DESCRIPTION	SIZE	HGT	REMARK
P-01	DIRECT DRAIN	1-1/2"	VERIFY	–	#K1 : MOP SINK	1-1/2"	VER	VERIFY WITH SUPPLIER. SEE PLUMBING PLANS FOR ADDITIONAL REQUIREMENTS.
P-02	HOT & COLD WATER	1/2"	VERIFY	–	#K1 : MOP SINK	1/2"	VER	VERIFY WITH SUPPLIER. SEE PLUMBING PLANS FOR ADDITIONAL REQUIREMENTS.
P-03	FLOOR SINK	2"	+0"	A	#K3 : THREE COMPARTMENT SINK	1-1/2"	+24"	HALF GRATE TOP. NOTE #1. THREE EACH CONNECTIONS.
				B	#K6 : DISHWASHER	3/4"	+4"	NOTE #1.
P-04	HOT & COLD WATER	1/2"	+18"	–	#K3 : THREE COMPARTMENT SINK; FAUCET	1/2"	+36"	TWO EACH CONNECTIONS.
P-05	HOT WATER	3/4"	+12"	–	#K6 : DISHWASHER	3/4"	+2"	WATER IN: 140 F. 15-25 PSI. PC TO INSTAL WATER HAMMER ARRESTOR. 4-6 GRAINS WATER HARDNESS.
P-06	FLOOR SINK	2"	+0"	A	#K29B : WALK-IN FREEZER: BLOWER COILS	1"	+78"	HALF GRATE TOP. NOTE #1.
				B	#K28B : WALK-IN COOLER; BLOWER COILS	1"	+78"	NOTE #1.
				C	#K7 : ICE MAKER	1"	+42"	NOTE #1
				D	#K7 : ICE MAKER	1"	+42"	NOTE #1.
				E	#K7 : ICE BIN	1"	+4"	NOTE #1.
△3				F	#K37 : HAND SINK	1-1/2"	+24"	NOTE #1.
P-07	COLD WATER	1/2"	+72"	–	#K7 : ICE MAKER	1/2"	+54"	INSTALL IN LINE FILTER SYSTEM.
P-08	DIRECT DRAIN	1-1/2"	+18"	–	#K31 : HAND SINK	1-1/2"	+28"	–
P-09	HOT & COLD WATER	1/2"	+18"	–	#K31 : HAND SINK	1/2"	+36"	–
P-10	NATURAL GAS	3/4"	+30"	–	#K22 : UNDER FIRE BROILER	3/4"	+32"	120,000 BTU/HR. NOTE #2 & #3.
P-11	NATURAL GAS	3/4"	+76"	–	#K21 : SALAMANDER BROILER	3/4"	+76"	40,000 BTU/HR. NOTE #2 & #3.
P-12	NATURAL GAS	3/4"	+30"	–	#K19 : GRIDDLE	3/4"	+32"	90,000 BTU/HR. NOTE #2 & #3.
P-13	NATURAL GAS	3/4"	+18"	–	#K16 : SIX BURNER RANGE WITH OVEN	3/4"	+30"	243,000 BTU/HR. NOTE #2 & #3.
P-14	HOT WATER	1/2"	+12"	–	#K34 : HOT FOOD WARMER	1/2"	+24"	P.C. TO PROVIDE AND INSTALL REQUIRED BACK FLOW PREVENTOR.
P-15	FLOOR SINK	2"	+0"	A	#K34 : HOT FOOD WARMER	1"	+20"	HALF GRATE TOP. NOTE #1.
				B	#K46 : SOUP WARMER	1"	+24"	NOTE #1.
				C	#K46 : SOUP WARMER	1"	+24"	NOTE #1.
				D	#K45 : ESPRESSO MACHINE	1"	+36"	NOTE #1.
				E	#K47 : DROP-IN UTILITY SINK	2"	+24"	NOTE #1.
P-16	COLD WATER	1/2"	+12"	–	#K45 : ESPRESSO MACHINE	3/8"	+48"	INSTALL IN-LINE FILTER.
P-17	HOT & COLD WATER	1/2"	+12"	–	#K47 : DROP-IN UTILITY SINK; FAUCET	1/2"	+36"	–
P-18	FLOOR SINK	2"	+0"	–	#K52 : REFRIGERATED DISPLAY CASE	1"	+20"	HALF GRATE TOP. NOTE #1.
P-19	FLOOR SINK	2"	+0"	A	#K54 : SODA/ICE DISPENSER	1"	+36"	HALF GRATE TOP. NOTE #1. VERIFY WITH VENDER.
				B	#K55 : ICE MAKER	1"	+54"	NOTE #1.
				C	#K57 : ICE TEA DISPENSER	1/2"	+36"	NOTE #1. VERIFY WITH VENDER. CONNECT TO DRIP TROUGH AT UNIT.
				D	#K56 : COFFEE BREWER	1/2"	+36"	NOTE #1. VERIFY WITH VENDER. CONNECT TO DRIP TROUGH AT UNIT.
P-20	COLD WATER	1/2"	+12"	–	#K55 : ICE MAKER	1/2"	+84"	INSTALL FILTER. RUN FROM BELOW TO INLET AT BACK OF UNIT.
P-21	COLD WATER	1/2"	+12"	–	#K54 : SODA DISPENSER	1/2"	+36"	INSTALL FILTER. VERIFY WITH VENDER
P-22	COLD WATER	1/2"	+12"	A	#K57 : ICE TEA DISPENSER	1/4"	+36"	INSTALL FILTER. VERIFY WITH VENDER. RUN THROUGH COUNTER TOP GROMMET.
				B	#K56 : COFFEE BREWER	1/4"	+36"	INSTALL FILTER. VERIFY WITH VENDER. RUN THROUGH COUNTER TOP GROMMET.
△3 P-23	HOT & COLD WATER	1/2"	+18"	–	#K37 : DROP-IN HAND SINK; FAUCET	1/2"	+36"	–

NOTE #1: PROVIDE INDIRECT AIR GAP DRAIN TO FLOOR SINK.

NOTE #2: K.E.C. TO PROVIDE QUICK DISCONNECT COUPLINGS AT GAS ROUGH-IN AND FINAL CONNECTION. TO BE INSTALLED BY PLUMBING CONTRACTOR.

NOTE #3: K.E.C. TO PROVIDE LEAK LIMITER PRESSURE REGULATOR AT GAS FINAL CONNECTION AS REQUIRED TO ADJUST FOR ALTITUDE. TO BE INSTALLED BY PLUMBING CONTRACTOR.

PLUMBING NOTES

1. PLUMBING PLANS SHOW ROUGH-IN POINTS AND SCHEDULED CONNECTIONS. KITCHEN EQUIPMENT CONTRACTOR WILL PROVIDE DIMENSIONED ROUGH-IN DRAWING FOR CONSTRUCTION.
2. WATER PRESSURE IN FOOD AND BEVERAGE AREAS SHOULD BE 50 PSIG (345 KPa) MAXIMUM. WATER PRESSURE AT DISHMACHINES, BOOSTER HEATERS, GLASS AND UTENSIL WASHERS TO BE 25 PSIG (172 KPa).
3. PLUMBING DIVISION SHALL FURNISH AND INSTALL ALL NECESSARY VALVES, TRAPS, TAIL PIECES, LINE STRAINERS, WATER PRESSURE REDUCING VALVES AND VACUUM BREAKERS AND CONNECT ALL WATER, FUEL GAS, STEAM AND WASTE LINES TO FOOD SERVICE AND BEVERAGE EQUIPMENT.
4. PLUMBING CONTRACTOR TO PROVIDE GAS SERVICES AT EQUIPMENT TO MAINTAIN AN 8" (203MM) WATER COLUMN. KITCHEN EQUIPMENT CONTRACTOR TO PROVIDE GAS PRESSURE REGULATORS AS REQUIRED BY CODE AND A.G.A. FOR INSTALLATION BY PLUMBING DIVISION INLINE BETWEEN BUILDING SERVICES AND EQUIPMENT.
5. PLUMBING DIVISION TO SUPPLY GAS SHUT OFF VALVE AT EACH EQUIPMENT CONNECTION AND INSTALL WITHIN EQUIPMENT SPREADERS OR CHASES FOR EASY ACCESSIBILITY.
6. MECHANICAL ENGINEER TO SIZE GAS ROUGH-IN FOR COOKING LINES; SCHEDULES SHOW LOADS ONLY FOR EACH PIECE NOT THE TOTAL LOOP GAS SERVICES WHEN PRACTICAL.
7. PLUMBING DIVISION SHALL INSTALL AND CONNECT ALL FAUCETS FURNISHED BY KEC.
8. PLUMBING DIVISION SHALL FURNISH AND INSTALL ALL INDIRECT SINK WASTE LINES TO FLOOR SINKS.
9. PLUMBING DIVISION TO PROVIDE ADEQUATE CLEAN-OUT FOR DRAIN LINES.
10. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH AND INSTALL FIRE PROTECTION SYSTEM (INCLUDING FURNISHING SOLENOID SHUTOFF VALVES) PLUMBING DIVISION SHALL INSTALL SHUTOFF VALVE. VERIFY LOCATION WITH KEC.
11. FLOOR SINKS SHALL BE INSTALLED FLUISH WITH FINISH FLOOR OR PER LOCAL CODE WITH REMOVEABLE GRATE COVER AS INDICATED.
12. FLOOR DRAINS INDICATED ARE FOR FOOD AND BEVERAGE AREAS ONLY ADDITIONAL GENERAL PURPOSE AREA DRAINS SHALL BE LOCATED BY THE PLUMBING ENGINEER/ARCHITECT.

PLUMBING LEGEND

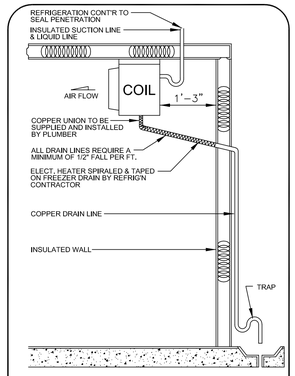
- HOT WATER
- COLD WATER
- GAS
- DIRECT WASTE DRAIN
- INDIRECT WASTE DRAIN
- FLOOR SINK WITH NO GRATE COVER
- FLOOR SINK WITH 1/2 GRATE COVER
- STUB UP FROM FLOOR
- MOUNT AT FLOOR
- DROP FROM ABOVE
- FLOOR DRAIN

NOTE: PLUMBING MOUNTING

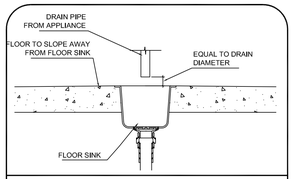
ALL WALL MOUNT PLUMBING UTILITIES ARE TO BE FLUSH MOUNTED IN WALLS WITH NO EXPOSED PIPING SHOWING ON SURFACE OF WALLS. ARCHITECT TO PROVIDE MINIMUM WALL FURING IF REQUIRED.

NOTE: PLUMBING COORDINATION

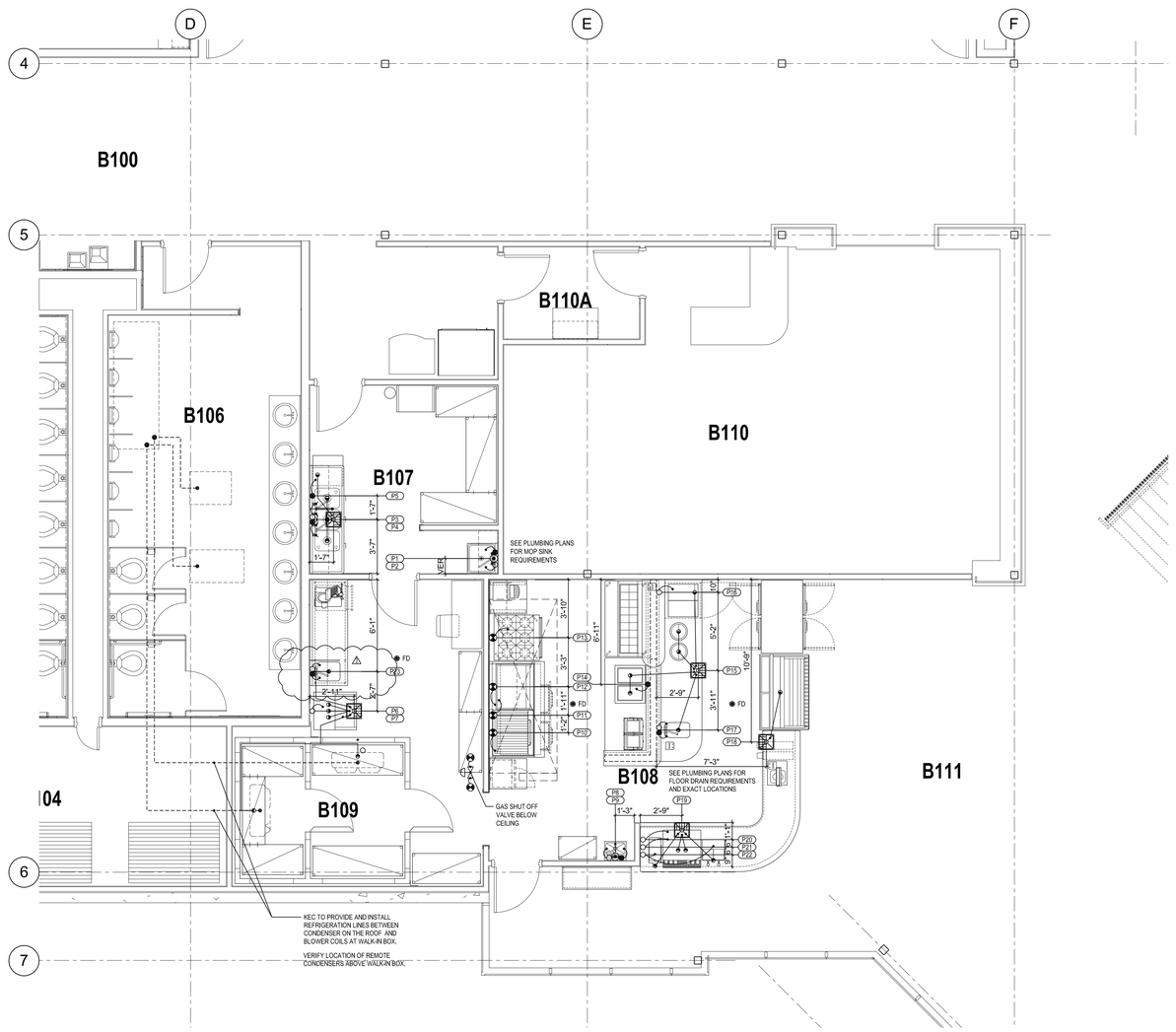
KITCHEN EQUIPMENT CONTRACTOR TO VERIFY AND COORDINATE PROPER LOCATION AND SIZE OF GENERAL CONTRACTOR FURNISHED STRUCTURAL PENETRATIONS AND PLUMBING DIVISION FURNISHED SLEEVES THRU FLOOR.



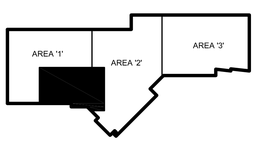
CONDENSATE DRAIN (TYPICAL)



FLOOR SINK SECTION DETAIL



1 LEVEL 1 FOOD SERVICE EQUIPMENT PLUMBING REQUIREMENT PLAN
1/4" = 1'-0"



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