



State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Solicitation

NUMBER
GSD136441

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
KRISTA FERRELL 304-558-2596

RFQ COPY
TYPE NAME/ADDRESS HERE

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DEPARTMENT OF ADMINISTRATION
GENERAL SERVICES DIVISION
BUILDING 7 - CONFERENCE CENTER
1900 KANAWHA BOULEVARD, EAST
CHARLESTON, WV
25305 304-558-2317

DATE PRINTED
07/23/2013

BID OPENING DATE: 08/13/2013 BID OPENING TIME 1:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
				ADDENDUM NO. 02		
				ADDENDUM FOR THE KITCHEN RENOVATIONS FOR A VENDETERIA TO BE LOCATED IN BUILDING 7 OF THE CAPITOL COMPLEX IN CHARLESTON, WV. ISSUED TO DISTRIBUTE THE ATTACHED DOCUMENTATION.		
0001	1	LS		968-42		
				B7 VENDETERIA ELECTRICAL AND MECHANICAL UPGRADES		
***** THIS IS THE END OF RFQ GSD136441 ***** TOTAL:						

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO SOLICITATION, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

SOLICITATION NUMBER: GSD136441
 Addendum Number: No. 02

The purpose of this addendum is to modify the solicitation identified as (“Solicitation”) to reflect the change(s) identified and described below.

Applicable Addendum Category:

- Modify bid opening date and time
- Modify specifications of product or service being sought
- Attachment of vendor questions and responses
- Attachment of pre-bid sign-in sheet
- Correction of error
- Other

Description of Modification to Solicitation:

Addendum issued to publish and distribute the attached information to the vendor community.

1. Pre-bid Sign in sheet
2. ZMM specifications
3. Revised Bid Form
4. No other changes.

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

ATTACHMENT A

PRE-BID CONFERENCE
SIGN IN SHEET

Request for Quotation Number:

GSDR26441

Date:

July 9, 2013

PLEASE PRINT LEGIBLY. THIS INFORMATION IS ESSENTIAL TO CONTACT THE ATTENDEES IN A TIMELY MANNER. FAILURE TO DO SO MAY RESULT IN DELAYS IN YOUR COMPANY GETTING IMPORTANT BID INFORMATION.

Firm Name:	<u>Danhill Construction</u>
Firm Address:	<u>PO Box 685</u> <u>Gawley Bridge, WV 25085</u>
Representative Attending:	<u>Dave Elsrick</u>
Phone Number:	<u>304 632-1600</u>
Fax Number:	<u>304 632-7501</u>
Email Address:	<u>rdanhill@hotmail.com</u>

Firm Name:	<u>Zmm</u>
Firm Address:	<u>222 LEE ST</u> <u>CHARLESTON, WV</u>
Representative Attending:	<u>HANK WALKER & AARON DUELLETTE</u>
Phone Number:	
Fax Number:	
Email Address:	

Firm Name:	<u>TODD WATSON - CASTOTECH</u>
Firm Address:	<u>540 LEON SULLIVAN WAY</u> <u>CHARLESTON, WV 25301</u> <u>CASTO TECHNICAL SERVICES</u>
Representative Attending:	<u>TODD WATSON</u>
Phone Number:	<u>304-346-0549</u>
Fax Number:	<u>304-346-8920</u>
Email Address:	<u>twatson@castotech.com</u>

Firm Name:	<u>Wiseman Const. Co., Inc</u>
Firm Address:	<u>1616 6th Ave</u> <u>Charleston, WV 25387</u>
Representative Attending:	<u>Andy Wiseman</u>
Phone Number:	<u>304-344-1200</u>
Fax Number:	<u>304-344-1281</u>
Email Address:	<u>awiseman@wisemancorp.com</u>

Firm Name:	<u>Cornerstone Electric LLC</u>
Firm Address:	<u>1677 Lens Creek Rd</u> <u>Marmet WV 25315</u>
Representative Attending:	<u>Math McDaniel</u>
Phone Number:	<u>304 949 9550</u>
Fax Number:	<u>" " 9552</u>
Email Address:	<u>davidpeters@thestonellc.com</u>

Firm Name:	<u>GSD - Melody Haynes</u>
Firm Address:	<u>Rick Casavides</u> <u>Roger Wines</u> <u>Sue Chapman</u> <u>DRS - Ryan Ware</u> <u>Cardice Ward</u> <u>Scott Barber</u>
Representative Attending:	
Phone Number:	
Fax Number:	
Email Address:	

PRE-BID CONFERENCE
SIGN IN SHEET

Request for Quotation Number:

GSD126441

Date:

July 9, 2013

PLEASE PRINT LEGIBLY. THIS INFORMATION IS ESSENTIAL TO CONTACT THE ATTENDEES IN A TIMELY MANNER. FAILURE TO DO SO MAY RESULT IN DELAYS IN YOUR COMPANY GETTING IMPORTANT BID INFORMATION.

Firm Name:	<u>OVAL Construction Management</u>
Firm Address:	<u>P.O. Box 401</u>
	<u>Charleston, WV 25322</u>
Representative Attending:	<u>Charles Barrett</u>
Phone Number:	<u>(304) 347-8820</u>
Fax Number:	<u>(304) 347-8821</u>
Email Address:	<u>j.curray@ovalconstruction.com</u>

Firm Name:	
Firm Address:	
Representative Attending:	
Phone Number:	
Fax Number:	
Email Address:	

Firm Name:	XXXXXXXXXX
Firm Address:	<u>HARRIS BROS.</u>
	<u>1533 HANSFORD ST</u>
	<u>Charleston WV 25311</u>
Representative Attending:	<u>Grey HARRIS</u>
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ROOFING - SHEET METAL
HVAC SYSTEMS - TEMPERATURE CONTROLS

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HARRIS BROTHERS

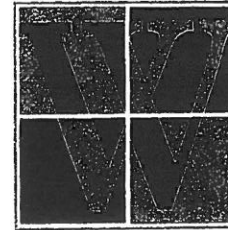
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1533 HANSFORD STREET
CHARLESTON, WV 25311

Grey Harris

304-343-5566

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Wiseman
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www.wisemanconst.com

Andy Wiseman
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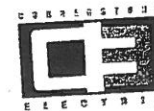
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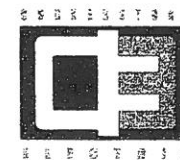
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July 19, 2013

ADDENDUM NO. 2

RE: New Kitchen For
State Office Building No. 7
West Virginia State Capitol Complex
Charleston, West Virginia
Project No. GSD 136441

TO: Prospective Bidders

FROM: ZMM, Inc. Architects And Engineers

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents.

ATTACH THIS ADDENDUM TO THE FRONT COVER OF THE PROJECT MANUAL AND ACKNOWLEDGE RECEIPT OF THIS ADDENDUM AS PER PAGE 29 OF THE RFQ ON THE "ADDENDUM ACKNOWLEDGEMENT FORM".

PART 1 - CHANGES TO SPECIFICATIONS

- A. ADD the following Sections as attached to this Addendum:
 - 1. 08211 – Flush Wood Doors
 - 2. 09111 – Non Structural Metal Framing
 - 3. 09250 – Gypsum Board
 - 4. 09511 – Acoustical Panel Ceilings
 - 5. 09653 – Resilient Wall Base and Accessories

PART 2 - CHANGES TO DRAWINGS

- A. Refer to the following Drawings as attached to this Addendum:
 - 1. CS-1 – Cover Sheet Revised 07/19/13
 - 2. A1-1 – Enlarged Kitchen Plan Revised 07/19/13
 - 3. A1-2 – Enlarged Ceiling, Floor Plan Added 07/19/13
 - 4. P1-1 – Kitchen Plumbing Plan
 - 5. M1-1 – Kitchen HVAC Plan Revised 07/19/13
 - 6. E1-1 – Lighting Plan Revised 07/19/13
 - 7. E2-1 – Electrical Power and Systems Plan Added 07/19/13

Attachments:	Section 08211 – Flush Wood Doors.....	4 pages
	Section 09111 – Non-Structural Metal Framing	5 pages
	Section 09250 – Gypsum Board	5 pages
	Section 09511 – Acoustical Panel Ceilings	7 pages
	Section 09653 – Resilient Wall Base and Accessories	4 pages

Attachments (continued)

Drawing CS-1	24" x 36"
Drawing A1-1	24" x 36"
Drawing A1-2	24" x 36"
Drawing P1-1	24" x 36"
Drawing M1-1	24" x 36"
Drawing E1-1	24" x 36"
Drawing E2-1	24" x 36"

END OF ADDENDUM

SECTION 08211 - FLUSH WOOD DOOR

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
1. Solid core door with wood veneer faces.
 2. Shop priming and finishing of flush wood door.
 3. Door Hardware.

1.2 SUBMITTALS

- A. Product data for each type of door, including details of core and edge construction, trim for openings and louvers, and factory-finishing specifications.
- B. Shop drawings indicating location and size of each door, elevation of each kind of door, pocket door frame, details of construction, location and extent of hardware blocking, fire ratings, requirements for veneer matching and factory finishing and other pertinent data.
1. Indicate dimensions and locations of mortises and holes for hardware.
 2. Indicate dimensions and locations of cutouts.
 3. Indicate requirements for veneer matching.
 4. Indicate door to be factory finished and finish requirements.
- C. Samples for initial selection in the form of color charts consisting of actual materials in small sections for faces of factory-finished door with transparent finish. Show the full range of colors available for stained finishes.
- D. Samples for verification in the form and size indicated below:
1. Factory finishes applied to actual door face materials, approximately 8 by 10 inches, for each material and finish.
 - a. For each wood species and transparent finish, provide set of three samples showing typical range of color and grain to be expected in the finished work.
 2. Corner sections of door, approximately 8 by 10 inches, with door faces and edges representing actual materials to be used.
 - a. Provide samples for each species of veneer and solid lumber required.
 - b. Provide samples for each color, texture, and pattern of plastic laminate required.
 - c. Finish veneer-faced door samples with same materials proposed for factory-finished door.
 3. Louver blade and frame sections, 6 inches long, for each material and finish specified.
 4. Frames for light openings, 6 inches long, for each material, type, and finish required.

1.3 QUALITY ASSURANCE

- A. Quality Standard: In addition to requirements specified, comply with WDMA I.S.1-A, "Architectural Wood Flush Door."

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Comply with requirements of referenced standard and manufacturer's written instructions.
- B. Package door individually in cardboard cartons and wrap door in plastic sheeting.
- C. Handle door with clean hands or gloves.
- D. Mark each door on bottom rail with opening number used on Shop Drawings.
- E. Maintain door protection until date of final acceptance.

1.5 PROJECT CONDITIONS

- A. Conditioning: Do not deliver or install door until conditions for temperature and relative humidity have been stabilized and will be maintained in storage and installation areas during the remainder of the construction period to comply with AWI quality standard Section 100-S-11 "Relative Humidity and Moisture Content."

1.6 WARRANTY

- A. General Warranty: Door manufacturer's warranty specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents.
- B. Door Manufacturer's Warranty: Submit written agreement on door manufacturer's standard form signed by manufacturer, Installer, and Contractor, agreeing to repair or replace defective door that have warped (bow, cup, or twist) more than 1/4 inch in a 42-by-84-inch section or that show telegraphing of core construction in face veneers exceeding 0.01 inch in a 3-inch span, or do not conform to tolerance limitations of referenced quality standards.
 - 1. Warranty shall also include installation and finishing that may be required due to repair or replacement of defective door where defect was not apparent prior to hanging.
 - 2. Warranty shall be in effect during the following period of time after date of Substantial Completion.
 - a. Solid Core Interior Door: Life of installation.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide as a Basis Of Design, flush wood door products as manufactured by VT Industries, or products by one of the following:
 - 1. Solid Core Door:
 - a. Algoma Hardwoods, Inc.
 - b. Chappell Door Co.
 - c. Eggers Industries.
 - d. Graham; an Assa Abloy Group company.
 - e. Marshfield Door Systems, Inc.

2.2 INTERIOR FLUSH WOOD DOOR

- A. Low-Emitting Materials: Provide door made with adhesives and composite wood products that do not contain urea formaldehyde.
- B. WDMA I.S.1-A Performance Grade: Heavy Duty.
- C. Solid Core Door: Comply with the following requirements:
 - 1. Faces: Red Oak, plain sliced, Premium Grade.
 - 2. Construction: 5 plies.
 - 3. Slip-match veneer.
 - 4. Core: Particleboard: ANSI A208.1, Grade LD-1, made with binder containing no urea-formaldehyde resin.

2.3 FABRICATION

- A. Fabricate flush wood door to comply with following requirements:
 - 1. Factory fit door to suit frame-opening sizes indicated, with the following uniform clearances and bevels:
 - a. Comply with clearance requirements of referenced quality standard for fitting. Comply with requirements of NFPA 80 for fire-resistance-rated door.
 - 2. Factory machine door for hardware that is not surface applied. Locate hardware to comply with DHI-WDHS-3. Comply with final hardware schedules, door frame shop drawings, DHI A115-W series standards, and hardware templates.
 - a. Coordinate measurements of hardware mortises in metal frames to verify dimensions and alignment before proceeding with factory machining.
 - b. Metal Astragals (Where Necessary): Pre-machine astragals and formed-steel edges for hardware for pairs of fire-rated door.

2.4 FACTORY FINISHING

- A. General: Finish wood door at factory. Comply with referenced quality standard's requirements for factory finishing.
- B. Transparent Finish: Comply with requirements indicated for grade, finish system, staining effect, and sheen.
 - 1. Grade: Premium.
 - 2. Finish: VT Industries: "Clear".
 - a. WDMA System TR-6 premium grade catalyzed polyurethane.
 - b. Stain and sealer coatings applied and numbered as per manufacturer's specifications.
 - 3. Effect: Filled finish.
 - 4. Sheen: Satin.

2.5 hardware

- A. Replace existing hinges and door latching with new hardware to match existing.
 - 1. Coordinate lock cylinder and keying with Owner.

- B. Provide and install new door closer as follows:
 - 1. LCN Closers; an Ingersoll-Rand Company (LCN): 4040XP Series.
 - a. Parallel Arm, Finish to match adjacent existing hardware.
 - 2. Equal product by Norton Door Controls or Stanley Security Systems

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine installed door frames prior to hanging door:
 - 1. Verify that frames comply with indicated requirements for type, size, location, and swing characteristics and have been installed with plumb jambs and level heads.
 - 2. Reject door with defects. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Hardware: Refer Division 8 Section "Door Hardware".
- B. Manufacturer's Instructions: Install wood door to comply with manufacturer's instructions and referenced quality standard and as indicated.
 - 1. Install fire-rated door in corresponding fire-rated frames according to requirements of NFPA 80.
- C. Factory-Finished Door: Restore finish before installation, if fitting or machining is required at the job site.

3.3 ADJUSTING AND PROTECTION

- A. Operation: Re-hang or replace door that do not swing or operate freely.
- B. Finished Door: Replace door that are damaged or that do not comply with requirements. Door may be repaired or refinished if work complies with requirements and shows no evidence of repair or refinishing.

END OF SECTION

SECTION 09111 - NON-STRUCTURAL METAL FRAMING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Non-load-bearing steel framing systems for interior gypsum board assemblies.
 - 2. Suspension systems for interior gypsum soffits.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Fire-Test-Response Characteristics: For fire-resistance-rated assemblies that incorporate non-load-bearing steel framing, provide materials and construction identical to those tested in assembly indicated, according to ASTM E 119 by an independent testing agency.

2.2 FRAMING SYSTEMS

- A. Recycled Content of Steel Products: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 25 percent.
- B. Framing Members, General: Comply with ASTM C 754 for conditions indicated.
 - 1. Steel Sheet Components: Comply with ASTM C 645 requirements for metal unless otherwise indicated.
 - 2. Protective Coating: ASTM A 653/A 653M, G60, hot-dip galvanized unless otherwise indicated.
- C. Studs and Runners: ASTM C 645. Use either steel studs and runners or dimpled steel studs and runners.
 - 1. Steel Studs and Runners:
 - a. Minimum Base-Metal Thickness: 0.033 inch.
 - b. Depth: As indicated on Drawings

2. Dimpled Steel Studs and Runners:
 - a. Minimum Base-Metal Thickness: 0.025 inch.
 - b. Depth: As indicated on Drawings 1-5/8 inches.
- D. Slip-Type Head Joints: Where indicated, provide one of the following:
1. Single Long-Leg Runner System: ASTM C 645 top runner with 2-inch- deep flanges in thickness not less than indicated for studs, installed with studs friction fit into top runner and with continuous bridging located within 12 inches of the top of studs to provide lateral bracing.
 2. Double-Runner System: ASTM C 645 top runners, inside runner with 2-inch- deep flanges in thickness not less than indicated for studs and fastened to studs, and outer runner sized to friction fit inside runner.
 3. Deflection Track: Steel sheet top runner manufactured to prevent cracking of finishes applied to interior partition framing resulting from deflection of structure above; in thickness not less than indicated for studs and in width to accommodate depth of studs.
 - a. Products: Subject to compliance with requirements, provide one of the following :
 - 1) Dietrich Metal Framing; SLP-TRK Slotted Deflection Track.
 - 2) MBA Building Supplies; FlatSteel Deflection Track or Slotted Deflector Track.
 - 3) Steel Network Inc. (The); VertiClip SLD Series.
 - 4) Superior Metal Trim; Superior Flex Track System (SFT).
 - 5) Telling Industries; Vertical Slip Track .
- E. Cold-Rolled Channel Bridging: Steel, 0.053-inch minimum base-metal thickness, with minimum 1/2-inch- wide flanges.
1. Depth: 1 ½ inches.
 2. Clip Angle: Not less than 1-1/2 by 1-1/2 inches, 0.068-inch- thick, galvanized steel.
- F. Hat-Shaped, Rigid Furring Channels: ASTM C 645.
1. Minimum Base-Metal Thickness: 0.033 inch.
 2. Depth: 7/8 inch.
- G. Resilient Furring Channels: 1/2-inch- deep, steel sheet members designed to reduce sound transmission.
1. Configuration: Asymmetrical or hat shaped.
- H. Cold-Rolled Furring Channels: 0.053-inch uncoated-steel thickness, with minimum 1/2-inch-wide flanges.
1. Depth: 3/4 inch.
 2. Furring Brackets: Adjustable, corrugated-edge type of steel sheet with minimum uncoated-steel thickness of 0.033 inch.
 3. Tie Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.062-inch- diameter wire, or double strand of 0.048-inch- diameter wire.

- I. Z-Shaped Furring: With slotted or nonslotted web, face flange of 1-1/4 inches, wall attachment flange of 7/8 inch, minimum uncoated-metal thickness of 0.018 inch, and depth required to fit insulation thickness indicated.

2.3 AUXILIARY MATERIALS

- A. General: Provide auxiliary materials that comply with referenced installation standards.
 - 1. Fasteners for Metal Framing: Of type, material, size, corrosion resistance, holding power, and other properties required to fasten steel members to substrates.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and substrates, with Installer present, and including welded hollow-metal frames, cast-in anchors, and structural framing, for compliance with requirements and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

- A. Installation Standard: ASTM C 754.
 - 1. Gypsum Board Assemblies: Also comply with requirements in ASTM C 840 that apply to framing installation.
- B. Install supplementary framing, and blocking to support fixtures, equipment services, heavy trim, grab bars, toilet accessories, furnishings, or similar construction.
- C. Install bracing at terminations in assemblies.
- D. Do not bridge building control and expansion joints with non-load-bearing steel framing members. Frame both sides of joints independently.

3.3 INSTALLING FRAMED ASSEMBLIES

- A. Install framing system components according to spacings indicated, but not greater than spacings required by referenced installation standards for assembly types.
 - 1. Single-Layer Application: 16 inches o.c. unless otherwise indicated.
- B. Where studs are installed directly against exterior masonry walls or dissimilar metals at exterior walls, install isolation strip between studs and exterior wall.
- C. Install studs so flanges within framing system point in same direction.
- D. Install tracks (runners) at floors and overhead supports. Extend framing full height to structural supports or substrates above suspended ceilings except where partitions are indicated to terminate at suspended ceilings. Continue framing around ducts penetrating partitions above ceiling.

1. Slip-Type Head Joints: Where framing extends to overhead structural supports, install to produce joints at tops of framing systems that prevent axial loading of finished assemblies.
 2. Door Openings: Screw vertical studs at jambs to jamb anchor clips on door frames; install runner track section (for cripple studs) at head and secure to jamb studs.
 - a. Install two studs at each jamb unless otherwise indicated.
 - b. Install cripple studs at head adjacent to each jamb stud, with a minimum 1/2-inch clearance from jamb stud to allow for installation of control joint in finished assembly.
 - c. Extend jamb studs through suspended ceilings and attach to underside of overhead structure.
 3. Other Framed Openings: Frame openings other than door openings the same as required for door openings unless otherwise indicated. Install framing below sills of openings to match framing required above door heads.
 4. Fire-Resistance-Rated Partitions: Install framing to comply with fire-resistance-rated assembly indicated and support closures and to make partitions continuous from floor to underside of solid structure.
 - a. Firestop Track: Where indicated, install to maintain continuity of fire-resistance-rated assembly indicated.
 5. Sound-Rated Partitions: Install framing to comply with sound-rated assembly indicated.
- E. Direct Furring:
1. Screw to wood framing.
 2. Attach to concrete or masonry with stub nails, screws designed for masonry attachment, or powder-driven fasteners spaced 24 inches o.c.
- F. Z-Furring Members:
1. Erect insulation, specified in Section 072100 "Thermal Insulation," vertically and hold in place with Z-furring members spaced 24 inches o.c.
 2. Except at exterior corners, securely attach narrow flanges of furring members to wall with concrete stub nails, screws designed for masonry attachment, or powder-driven fasteners spaced 24 inches o.c.
 3. At exterior corners, attach wide flange of furring members to wall with short flange extending beyond corner; on adjacent wall surface, screw-attach short flange of furring channel to web of attached channel. At interior corners, space second member no more than 12 inches from corner and cut insulation to fit.
- G. Installation Tolerance: Install each framing member so fastening surfaces vary not more than 1/8 inch from the plane formed by faces of adjacent framing.

3.4 INSTALLING SUSPENSION SYSTEMS

- A. Suspend hangers from building structure as follows:
1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structural or suspension system.

- a. Splay hangers only where required to miss obstructions and offset resulting horizontal forces by bracing, countersplaying, or other equally effective means.
 2. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with locations of hangers required to support standard suspension system members, install supplemental suspension members and hangers in the form of trapezes or equivalent devices.
 3. Do not connect to or suspend steel framing from ducts, pipes, or conduit.
- B. Fire-Resistance-Rated Assemblies: Wire tie furring channels to supports.
- C. Installation Tolerances: Install suspension systems that are level to within 1/8 inch in 12 feet measured lengthwise on each member that will receive finishes and transversely between parallel members that will receive finishes.

END OF SECTION

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SECTION 09250 - GYPSUM BOARD

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Interior gypsum board.
- B. Related Sections include the following:
 - 1. Division 07 Section "Through Penetration Firestop Systems" for head-of-wall assemblies that incorporate gypsum board.
 - 2. Division 09 Section "Non-Structural Metal Framing" for steel framing that supports gypsum board.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated.

1.4 QUALITY ASSURANCE

- A. Submit Material Safety Data Sheet (MSDS) for all gypsum board products.
- B. Only gypsum board products manufactured within the borders of the United States Of America will be accepted. Imported products will be rejected.
- C. Fire-Resistance-Rated Assemblies: For fire-resistance-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by an independent testing agency.

1.5 STORAGE AND HANDLING

- A. Store materials inside under cover and keep them dry and protected against damage from weather, condensation, direct sunlight, construction traffic, and other causes. Stack panels flat to prevent sagging.

1.6 PROJECT CONDITIONS

- A. Environmental Limitations: Comply with ASTM C 840 requirements or gypsum board manufacturer's written recommendations, whichever are more stringent.
- B. Do not install interior products until installation areas are enclosed and conditioned.
- C. Do not install panels that are wet, those that are moisture damaged, and those that are mold damaged.

1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

PART 2 - PRODUCTS

2.1 PANELS, GENERAL

- A. Size: Provide in maximum lengths and widths available that will minimize joints in each area and that correspond with support system indicated.

2.2 INTERIOR GYPSUM BOARD

- A. General: Complying with ASTM C 36/C 36M or ASTM C 1396/C 1396M, as applicable to type of gypsum board indicated and whichever is more stringent.
 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. BPB America Inc.
 - b. G-P Gypsum.
 - c. National Gypsum Company.
 - d. USG Corporation.
- B. Type X:
 1. Thickness: 5/8 inch, Long Edges: Tapered.
- C. Ceiling Type: Manufactured to have more sag resistance than regular-type gypsum board.
 1. Thickness: 5/8 inch.
 2. Long Edges: Tapered.

2.3 TRIM ACCESSORIES

- A. Interior Trim: ASTM C 1047.
 1. Material: Galvanized or aluminum-coated steel sheet or rolled zinc.
 2. Shapes:
 - a. Corner bead.
 - b. LC-Bead: J-shaped; exposed long flange receives joint compound.
 - c. L-Bead: L-shaped; exposed long flange receives joint compound.
 - d. Expansion (control) joint.

2.4 JOINT TREATMENT MATERIALS

- A. General: Comply with ASTM C 475/C 475M.
- B. Joint Tape for Interior Gypsum Wallboard: As manufactured by gypsum board manufacturer.

- C. Joint Compound for Interior Gypsum Wallboard: For each coat use formulation that is compatible with other compounds applied on previous or for successive coats.
 - 1. Prefilling: At open joints and damaged surface areas, use setting-type taping compound.
 - 2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use setting-type taping compound.
 - 3. Fill Coat: For second coat, use drying-type, all-purpose compound.
 - 4. Finish Coat: For third coat, use drying-type, all-purpose compound.

2.5 AUXILIARY MATERIALS

- A. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written recommendations.
- B. Steel Drill Screws: ASTM C 1002, unless otherwise indicated.
 - 1. Use screws complying with ASTM C 954 for fastening panels to steel members from 0.033 to 0.112 inch thick.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and substrates, with Installer present, and including welded hollow-metal frames and framing, for compliance with requirements and other conditions affecting performance.
- B. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 APPLYING AND FINISHING PANELS, GENERAL

- A. Comply with ASTM C 840.
- B. Install ceiling panels across framing to minimize the number of abutting end joints and to avoid abutting end joints in central area of each ceiling. Stagger abutting end joints of adjacent panels not less than one framing member.
- C. Install panels with face side out. Butt panels together for a light contact at edges and ends with not more than 1/16 inch of open space between panels. Do not force into place.
- D. Locate edge and end joints over supports, except in ceiling applications where intermediate supports or gypsum board back-blocking is provided behind end joints. Do not place tapered edges against cut edges or ends. Stagger vertical joints on opposite sides of partitions. Do not make joints other than control joints at corners of framed openings.
- E. Form control and expansion joints with space between edges of adjoining gypsum panels.
- F. Cover both faces of support framing with gypsum panels in concealed spaces (above ceilings, etc.), except in chases braced internally.

1. Unless concealed application is indicated or required for sound, fire, air, or smoke ratings, coverage may be accomplished with scraps of not less than 8 sq. ft. in area.
 2. Fit gypsum panels around ducts, pipes, and conduits.
 3. Where partitions intersect structural members projecting below underside of floor/roof slabs and decks, cut gypsum panels to fit profile formed by structural members; allow 1/4- to 3/8-inch- wide joints to install sealant.
- G. Isolate perimeter of gypsum board applied to non-load-bearing partitions at structural abutments, except floors. Provide 1/4- to 1/2-inch- wide spaces at these locations, and trim edges with edge trim where edges of panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.
- H. Isolate perimeter of gypsum board at floors with 1/2 inch bead of sealant over backer rod applied immediately following gypsum board installation.
- I. Cover all cut edges of gypsum board panels with waterproof coating before installation.
- J. Attachment to Steel Framing: Attach panels so leading edge or end of each panel is attached to open (unsupported) edges of stud flanges first.

3.3 APPLYING INTERIOR GYPSUM BOARD

- A. Install interior gypsum board in the following locations:
1. Type X: As indicated on Drawings for Vertical surfaces, unless otherwise indicated.
 2. Ceiling Type: Ceiling surfaces.
- B. Single-Layer Application:
1. On ceilings, apply gypsum panels before wall/partition board application to greatest extent possible and at right angles to framing, unless otherwise indicated.
 2. On partitions/walls, apply gypsum panels horizontally (perpendicular to framing), unless otherwise indicated or required by fire-resistance-rated assembly, and minimize end joints.
 - a. Stagger abutting end joints not less than one framing member in alternate courses of panels.
 - b. At high walls, install panels horizontally, unless otherwise indicated or required by fire-resistance-rated assembly.
 3. On Z-furring members, apply gypsum panels vertically (parallel to framing) with no end joints. Locate edge joints over furring members.
 4. Fastening Methods: Apply gypsum panels to supports with steel drill screws.

3.4 INSTALLING TRIM ACCESSORIES

- A. General: For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.
- B. Control Joints: Install control joints according to ASTM C 840 and in specific locations approved by Architect for visual effect.
1. Isolate gypsum board construction with control joints at the following locations:

- a. Intersection of gypsum board and dissimilar materials, along all edges.
- b. Where wings of "L", "U", and "T" shaped ceiling areas are joined.
- c. Wall Partitions: 30 feet maximum spacing each direction.
- d. Interior ceilings with perimeter relief: 50 feet maximum spacing each direction. Interior ceilings without perimeter relief: 30 feet maximum spacing each direction.
- e. Exterior ceilings: 30 feet maximum spacing in each direction.
- f. Control joints aligned with openings must continue from bottom to top of gypsum board if opening heights are less than height of gypsum board surface.

C. Interior Trim: Install in the following locations:

- 1. Corner bead: Use at outside corners, unless otherwise indicated.
- 2. LC-Bead: Use at exposed panel edges.
- 3. L-Bead: Use where indicated.

3.5 FINISHING GYPSUM BOARD

- A. General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from adjacent surfaces.
- B. Prefill open joints, rounded or beveled edges, and damaged surface areas.
- C. Apply joint tape over gypsum board joints, except those with trim not intended for tape.
- D. Finish Levels: Finish gypsum panels to levels indicated below and according to ASTM C 840:
 - 1. Level 1: Ceiling plenum areas, concealed areas, and where indicated.
 - 2. Level 4: At panel surfaces that will be exposed to view.

3.6 FIELD QUALITY CONTROL

- A. The moisture content of the taped and sanded gypsum board walls be measured and documented at two locations on each wall: the bottom edge and halfway between floor and ceiling. The interior finish may not be applied until the moisture content of the wallboard is below 0.4% on a gypsum moisture meter or below 12% on a wood meter.

3.7 PROTECTION

- A. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.
- B. Remove and replace panels that are wet, moisture damaged, and mold damaged.
 - 1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
 - 2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

END OF SECTION

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SECTION 09511 - ACOUSTICAL PANEL CEILINGS**PART 1 - GENERAL****1.1 RELATED DOCUMENTS**

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

1.2 SUMMARY

- A. Section includes acoustical panels and exposed suspension systems for ceilings.

1.3 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples for Verification: For each component indicated and for each exposed finish required, prepared on Samples of size indicated below.
 - 1. Acoustical Panel: Set of 6-inch- square Samples of each type, color, pattern, and texture.
 - 2. Exposed Suspension-System Members, Moldings, and Trim: Set of 6-inch- long Samples of each type, finish, and color.

1.5 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: Reflected ceiling plans, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:
 - 1. Suspended ceiling components.
 - 2. Structural members to which suspension systems will be attached.
 - 3. Size and location of initial access modules for acoustical panels.
 - 4. Items penetrating finished ceiling including the following:
 - a. Lighting fixtures.
 - b. Air outlets and inlets.
 - c. Speakers.
 - d. Sprinklers.
 - 5. Perimeter moldings.
- B. Qualification Data: For testing agency.

- C. Product Test Reports: For each acoustical panel ceiling, for tests performed by a qualified testing agency.
- D. Evaluation Reports: For each acoustical panel ceiling suspension system and anchor and fastener type, from ICC-ES.
- E. Field quality-control reports.

1.6 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For finishes to include in maintenance manuals.

1.7 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 1. Acoustical Ceiling Panels: Full-size panels equal to 2 percent of quantity installed.
 2. Suspension-System Components: Quantity of each exposed component equal to 2 percent of quantity installed.

1.8 QUALITY ASSURANCE

- A. Testing Agency Qualifications: Qualified according to NVLAP for testing indicated.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Deliver acoustical panels, suspension-system components, and accessories to Project site in original, unopened packages and store them in a fully enclosed, conditioned space where they will be protected against damage from moisture, humidity, temperature extremes, direct sunlight, surface contamination, and other causes.
- B. Before installing acoustical panels, permit them to reach room temperature and a stabilized moisture content.
- C. Handle acoustical panels carefully to avoid chipping edges or damaging units in any way.

1.10 FIELD CONDITIONS

- A. Environmental Limitations: Do not install acoustical panel ceilings until spaces are enclosed and weatherproof, wet work in spaces is complete and dry, work above ceilings is complete, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
 1. Pressurized Plenums: Operate ventilation system for not less than 48 hours before beginning acoustical panel ceiling installation.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Surface-Burning Characteristics: Comply with ASTM E 84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
1. Flame-Spread Index: Comply with ASTM E 1264 for Class A materials.
 2. Smoke-Developed Index: 50 or less.

2.2 ACOUSTICAL PANELS, GENERAL

- A. Low-Emitting Materials: Acoustical panel ceilings 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."
- B. Source Limitations:
1. Acoustical Ceiling Panel: Obtain each type from single source from single manufacturer.
 2. Suspension System: Obtain each type from single source from single manufacturer.
- C. Source Limitations: Obtain each type of acoustical ceiling panel and supporting suspension system from single source from single manufacturer.
- D. Acoustical Panel Standard: Provide manufacturer's standard panels of configuration indicated that comply with ASTM E 1264 classifications as designated by types, patterns, acoustical ratings, and light reflectances unless otherwise indicated.
1. Mounting Method for Measuring NRC: Type E-400; plenum mounting in which face of test specimen is 15-3/4 inches away from test surface according to ASTM E 795.
- E. Acoustical Panel Colors and Patterns: Match appearance characteristics indicated for each product type.
1. Where appearance characteristics of acoustical panels are indicated by referencing pattern designations in ASTM E 1264 and not manufacturers' proprietary product designations, provide products selected by Architect from each manufacturer's full range that comply with requirements indicated for type, pattern, color, light reflectance, acoustical performance, edge detail, and size.

2.3 ACOUSTICAL PANELS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide 'Baroque' BET 157 as manufactured by CertainTeed possessing the following minimum properties:
1. Surface Texture: Medium
 2. Composition: Mineral Fiber
 3. Color: White
 4. Size: 24 in X 24 in X 5/8 in
 5. Edge Profile: Square Lay-In for interface with Prelude XL Fire Guard 15/16" Exposed Tee.

6. Noise Reduction Coefficient (NRC): ASTM C 423; Classified with UL label on product carton, 0.60.
7. Ceiling Attenuation Class (CAC): ASTM C 1414; Classified with UL label on product carton, 33
8. Emissions Testing: Section 01350 Protocol, < 13.5 ppb of formaldehyde when used under typical conditions required by ASHRAE Standard 62.1-2004, "Ventilation for Acceptable Indoor Air Quality"
9. Light Reflectance (LR): ASTM E 1477; White Panel: Light Reflectance: 0.83.
10. Dimensional Stability: HumiGuard Plus - Temperature is between 32°F (0° C) and 120°F (49° C). It is not necessary for the area to be enclosed or for HVAC systems to be functioning. All wet work (plastering, concrete, etc) must be complete and dry.

B. Comparable products by one of the following:

1. Armstrong World Industries.
2. Chicago Metallic Corporation.
3. Tectum Inc.
4. USG Interiors, Inc.; Subsidiary of USG Corporation.

2.4 METAL SUSPENSION SYSTEMS, GENERAL

A. Metal Suspension-System Standard: Provide manufacturer's standard direct-hung metal suspension systems of types, structural classifications, and finishes indicated that comply with applicable requirements in ASTM C 635/C 635M.

1. High-Humidity Finish: Comply with ASTM C 635/C 635M requirements for "Coating Classification for Severe Environment Performance" where high-humidity finishes are indicated.

B. Components: All main beams and cross tees shall be commercial quality hot-dipped galvanized (galvanized steel, aluminum, or stainless steel) as per ASTM A 653. Main beams and cross tees are double-web steel construction with 15/16 IN type exposed flange design. Exposed surfaces chemically cleansed, capping pre-finished galvanized steel (aluminum or stainless steel) in baked polyester paint. Main beams and cross tees shall have rotary stitching (exception: extruded aluminum or stainless steel).

1. Structural Classification: ASTM C 635 HD.
2. Color: White and match the actual color of the selected ceiling tile, unless noted otherwise.
3. Acceptable Product: Prelude XL Fire Guard 15/16" Exposed Tee as manufactured by Armstrong World Industries, Inc.
 - a. Additional acceptable comparable products of those manufacturers listed above.
4. Attachment Devices: Size for five times design load indicated in ASTM C 635, Table 1, Direct Hung unless otherwise indicated.
5. Wire for Hangers and Ties: ASTM A 641, Class 1 zinc coating, soft temper, pre-stretched, with a yield stress load of at least time three design load, but not less than 12 gauge.
6. Edge Moldings and Trim: Metal or extruded aluminum of types and profiles indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations, including

light fixtures, that fit type of edge detail and suspension system indicated. Provide moldings with exposed flange of the same width as exposed runner.

C. Accessories

1. Angle Hangers: Angles with legs not less than 7/8 inch wide; formed with 0.04-inch-thick, galvanized-steel sheet complying with ASTM A 653/A 653M, G90 coating designation; with bolted connections and 5/16-inch-diameter bolts.
2. Hold-Down Clips: Where indicated, provide manufacturer's standard hold-down clips spaced 24 inches o.c. on all cross tees.
3. Impact Clips: Where indicated, provide manufacturer's standard impact-clip system designed to absorb impact forces against acoustical panels.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, including structural framing to which acoustical panel ceilings attach or abut, with Installer present, for compliance with requirements specified in this and other Sections that affect ceiling installation and anchorage and with requirements for installation tolerances and other conditions affecting performance of acoustical panel ceilings.
- B. Examine acoustical panels before installation. Reject acoustical panels that are wet, moisture damaged, or mold damaged.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Measure each ceiling area and establish layout of acoustical panels to balance border widths at opposite edges of each ceiling. Avoid using less-than-half-width panels at borders, and comply with layout shown on reflected ceiling plans.

3.3 INSTALLATION

- A. General: Install acoustical panel ceilings to comply with ASTM C 636/C 636M and seismic design requirements indicated, according to manufacturer's written instructions and CISCA's "Ceiling Systems Handbook."
- B. Suspend ceiling hangers from building's structural members and as follows:
 1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structure or of ceiling suspension system.
 2. Splay hangers only where required and, if permitted with fire-resistance-rated ceilings, to miss obstructions; offset resulting horizontal forces by bracing, countersplaying, or other equally effective means.
 3. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with location of hangers at spacings required to support standard suspension-system members, install supplemental suspension members and hangers in form of trapezes or equivalent devices.

4. Secure wire hangers to ceiling-suspension members and to supports above with a minimum of three tight turns. Connect hangers directly either to structures or to inserts, eye screws, or other devices that are secure and appropriate for substrate and that will not deteriorate or otherwise fail due to age, corrosion, or elevated temperatures.
 5. Secure flat, angle, channel, and rod hangers to structure, including intermediate framing members, by attaching to inserts, eye screws, or other devices that are secure and appropriate for both the structure to which hangers are attached and the type of hanger involved. Install hangers in a manner that will not cause them to deteriorate or fail due to age, corrosion, or elevated temperatures.
 6. Do not support ceilings directly from floor deck. Fasten hangers to power-actuated fasteners driven into wood structure above.
 7. Space hangers not more than 48 inches o.c. along each member supported directly from hangers unless otherwise indicated; provide hangers not more than 8 inches from ends of each member.
- C. Secure bracing wires to ceiling suspension members and to supports with a minimum of four tight turns. Suspend bracing from building's structural members as required for hangers, without attaching to permanent metal forms, steel deck, or steel deck tabs. Fasten bracing wires into concrete with cast-in-place or postinstalled anchors.
- D. Install edge moldings and trim of type indicated at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical panels.
1. Apply acoustical sealant in a continuous ribbon concealed on back of vertical legs of moldings before they are installed.
 2. Screw attach moldings to substrate at intervals not more than 16 inches o.c. and not more than 3 inches from ends, leveling with ceiling suspension system to a tolerance of 1/8 inch in 12 feet. Miter corners accurately and connect securely.
 3. Do not use exposed fasteners, including pop rivets, on moldings and trim.
- E. Install suspension-system runners so they are square and securely interlocked with one another. Remove and replace dented, bent, or kinked members.
- F. Install acoustical panels with undamaged edges and fit accurately into suspension-system runners and edge moldings. Scribe and cut panels at borders and penetrations to provide a neat, precise fit.
1. Arrange directionally patterned acoustical panels as follows:
 - a. Install panels in a basket-weave pattern.
 2. For square-edged panels, install panels with edges fully hidden from view by flanges of suspension-system runners and moldings.
 3. Paint cut edges of panel remaining exposed after installation; match color of exposed panel surfaces using coating recommended in writing for this purpose by acoustical panel manufacturer.
 4. Install hold-down clips in areas indicated, in areas required by authorities having jurisdiction, and for fire-resistance ratings; space as recommended by panel manufacturer's written instructions unless otherwise indicated.

3.4 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections and prepare test reports.
- B. Perform the following tests and inspections of completed installations of acoustical panel ceiling hangers and anchors and fasteners in successive stages.

- C. Do not proceed with installations of acoustical panel ceiling hangers for the next area until test results for previously completed installations show compliance with requirements.
 - 1. Extent of Each Test Area: When installation of ceiling suspension systems on each floor has reached 20 percent completion but no panels have been installed.
 - a. Within each test area, testing agency will select one of every 10 power-actuated fasteners and postinstalled anchors used to attach hangers to concrete and will test them for 200 lbf of tension; it will also select one of every two postinstalled anchors used to attach bracing wires to concrete and will test them for 440 lbf of tension.
 - b. When testing discovers fasteners and anchors that do not comply with requirements, testing agency will test those anchors not previously tested until 20 pass consecutively and then will resume initial testing frequency.
- D. Acoustical panel ceiling hangers and anchors and fasteners will be considered defective if they do not pass tests and inspections. Prepare test and inspection reports.

3.5 CLEANING

- A. Clean exposed surfaces of acoustical panel ceilings, including trim, edge moldings, and suspension-system members. Comply with manufacturer's written instructions for cleaning and touchup of minor finish damage. Remove and replace ceiling components that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION

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SECTION 09653 - RESILIENT WALL BASE AND ACCESSORIES**PART 1 - GENERAL****1.1 SUMMARY**

- A. Section includes resilient base and molding accessories.

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Samples for Verification: For each type of product indicated, in manufacturer's standard-size Samples but not less than 12 inches long, of each resilient product color, texture, and pattern required.

1.3 DELIVERY, STORAGE, AND HANDLING

- A. Store resilient products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 deg F or more than 90 deg F.

1.4 PROJECT CONDITIONS

- A. Maintain ambient temperatures within range recommended by manufacturer, but not less than 70 deg F or more than 90 deg F, in spaces to receive resilient products during the following time periods:
 - 1. 48 hours before installation.
 - 2. During installation.
 - 3. 48 hours after installation.
- B. Until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 60 deg F or more than 90 deg F.
- C. Install resilient products after other finishing operations, including painting, have been completed.

1.5 EXTRA MATERIALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Furnish not less than 10 linear feet for every 500 linear feet or fraction thereof, of each type, color, pattern, and size of resilient product installed.

PART 2 - PRODUCTS

2.1 RESILIENT BASE

- A. Resilient Base Standard: ASTM F 1861.
- B. Resilient Base: Subject to compliance with requirements, provide products scheduled on Drawings.
 - 1. Material Requirement: Type TS (rubber, vulcanized thermoset).
 - 2. Manufacturing Method: Group I (solid, homogeneous).
 - 3. Style:
 - a. Cove (base with toe), at resilient floor installations.
 - b. Straight profile at carpet tile installations.
 - 4. Minimum Thickness: 0.125 inch.
 - 5. Height: 4 inches.
 - 6. Lengths: Cut lengths 48 inches long or coils in manufacturer's standard length.
 - 7. Outside Corners: Preformed.
 - 8. Inside Corners: Job formed or preformed.
 - 9. Colors and Patterns: As indicated on Drawings.

2.2 RESILIENT MOLDING ACCESSORIES

- A. Resilient Molding Accessories:
 - 1. Manufacturers: Subject to compliance with requirements, provide products to match existing adjacent resilient molding in material and color.
 - 2. Material: Rubber.
 - a. Install where indicated on Drawings.

2.3 INSTALLATION MATERIALS

- A. Adhesives: Water-resistant type recommended by manufacturer to suit resilient products and substrate conditions indicated.
 - 1. Use adhesives that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24):
 - a. Cove Base Adhesives: Not more than 50 g/L.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

- B. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient products.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products.
- B. Do not install resilient products until they are same temperature as the space where they are to be installed.
 - 1. Move resilient products and installation materials into spaces where they will be installed at least 48 hours in advance of installation.

3.3 RESILIENT BASE INSTALLATION

- A. Comply with manufacturer's written instructions for installing resilient base.
- B. Apply resilient base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.
- C. Install resilient base in lengths as long as practicable without gaps at seams and with tops of adjacent pieces aligned.
- D. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.
- E. Do not stretch resilient base during installation.
- F. On masonry surfaces or other similar irregular substrates, fill voids along top edge of resilient base with manufacturer's recommended adhesive filler material.
- G. Preformed Corners: Install preformed corners before installing straight pieces.
- H. Job-Formed Corners:
 - 1. Inside Corners: Use straight pieces of maximum lengths possible.

3.4 RESILIENT ACCESSORY INSTALLATION

- A. Comply with manufacturer's written instructions for installing resilient accessories.
- B. Resilient Molding Accessories: Butt to adjacent materials and tightly adhere to substrates throughout length of each piece.

3.5 CLEANING AND PROTECTION

- A. Comply with manufacturer's written instructions for cleaning and protection of resilient products.
- B. Perform the following operations immediately after completing resilient product installation:
 - 1. Remove adhesive and other blemishes from exposed surfaces.
 - 2. Damp-mop surfaces to remove marks and soil.
- C. Protect resilient products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.

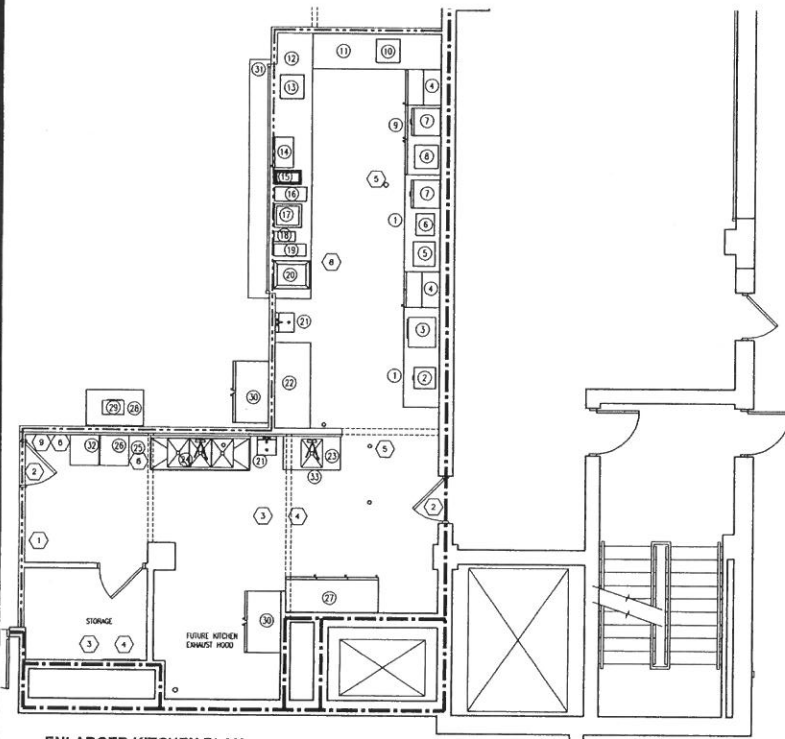
END OF SECTION

LEGEND

- ① EQUIPMENT TAG
- SMOKE TIGHT PARTITION (EXTEND WALL/BULKHEAD AND SEAL TO BOTTOM OF DECK)
- EXISTING 1 HOUR RATED WALL (SEAL ANY CRACKS AND OPENINGS WITH FRESHING GULLS)

**PLAN KEYED NOTES
(NOT IN BID PACKAGE UNLESS NOTED)**

- 1 PROVIDE NEW SMOKE TIGHT METAL STUD AND CIP BID PARTITION TO CEILING.
- 2 PROVIDE NEW DOOR CLOSER, POSITIVE LATCHING AND GASKETING TO MAKE DOOR SMOKE TIGHT.
- 3 PROVIDE NEW SUSPENDED ACoustICAL TILE CEILING. SEE ELECTRICAL DRAWINGS.
- 4 PROVIDE NEW VCT FLOOR AND BASE.
- 5 EXISTING FLOOR DRAIN TO REMAIN.
- 6 NEW FLOOR DRAIN/SINK (PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR)
- 7 REMOVE EXISTING FLOOR DRAIN AND PATCH FLOOR.
- 8 PROVIDE SMOKE TIGHT CIP BID BULKHEAD BRVAC DUCT.
- 9 PROVIDE SMOKE TIGHT CIP BID ON METAL FURRING TO COVER PLUMBING LINES.



ENLARGED KITCHEN PLAN
SCALE: 1/4" = 1'-0"

FOOD-SERVICE EQUIPMENT SCHEDULE (NOT IN CONTRACT UNLESS NOTED)

NO.	QTY	DESCRIPTION	MANUFACTURER	MODEL NO.	DRAINS		WATER		ELECTRICAL		REMARKS	
					IW	DW	CW	HW	VOLTS	PH/AMPS		
1	2	84"x30"x30"H - STAINLESS STEEL TABLE	ADVANCE TABCO									
2	1	ELECTRIC HOT PLATE	COOK TEK	MC1800					120	15		
3	1	CONVECTION MICROWAVE	YONG	AMC206-35"					120	15		
4	2	FOOD PREP TABLE	TRUE FOOD SERVICE	TSSJ-27-12W-B					115	14.9		
5	1	DOUBLE BELGIAN WAFFLE MAKER	WARING	HW 250					120	10		
6	1	DUAL PANINI GRILL	WARING	WDC 300					240	13	FINAL CONNECTION BY ELEC. CONT.	
7	2	TURBO CHEF OVEN	TURBO CHEF	HIGH-H-BATCH					220	24	FINAL CONNECTION BY ELEC. CONT.	
8	1	COOKER/WARMER	SUPERIOR	SPC-841420					120	12.5		
9	1	WORKTOP SOLID DOOR FREEZER	TRUE FOOD SERVICE	TW-60F					115	10.9		
10	1	CONVEYOR TOASTER	STAR	GC52-800H					208	13.5	FINAL CONNECTION BY ELEC. CONT.	
11	1	109"x30"x30"H - STAINLESS STEEL TABLE	ADVANCE TABCO									
12	1	CUSTOM STAINLESS STEEL COUNTER TOP									PROVIDE HOLES FOR EQUIPMENT CORDS	
13	1	POINT OF SALE SYSTEM	TOUCH DYNAMIC/EDSON						120	15		
14	1	TABLE TOP HOT FOOD MERCHANDISER	VOLLRATH	40733					120	12.5		
15	1	BUNN CAPPUCCINO MAKER	BUNN	FMD-3			3/8" W	SHUTOFF	120	15		
16	1	CONDIMENT AND STRAW ORGANIZER	SAN JAMAR	L2906R			3/8" W	SHUTOFF	240	25	FINAL CONNECTION BY ELEC. CONT.	
17	1	BUNN COFFEE SYSTEM	BUNN	TWIN-INFUSION			3/8" W	SHUTOFF	240	25	FINAL CONNECTION BY ELEC. CONT.	
18	1	LID AND STRAW DISPENSER	SAN JAMAR	L2203GR			3/8" W	SHUTOFF	240	25	FINAL CONNECTION BY ELEC. CONT.	
19	1	CUP DISPENSER SYSTEM	SAN JAMAR	C2803GR			3/8" W	SHUTOFF	240	25	FINAL CONNECTION BY ELEC. CONT.	
20	1	PEPSI MACHINE WITH ICE DISPENSER			1"		3/8" W	SHUTOFF	115	3.0		
21	2	HAND SINK WITH SIDE SPLASH	ADVANCE TABCO			1-1/2"	1/2"	1/2"				
22	1	72"x30"x30"H - SS SLIDING DOOR TABLE	ADVANCE TABCO									
23	1	PREP SINK	ADVANCE TABCO	94 1 24-24 RL	4" R	1/2"	1/2"					
24	1	SCULLERY SINK	JUST MANUF.	SB 372-24RL	1-1/2"	1/2"	1/2"					
25	1	GREASE INTERCEPTOR	U.S. FOODS	3" FLOW/35 GAL.								
26	1	COMMERCIAL DISHWASHER	INSINGER	RL-30 UNDERCOUNTER	1"		3/4"		208/240	1	20	FINAL CONNECTION BY ELEC. CONT.
27	1	THREE DOOR FREEZER	TRUE FOOD SERVICE	1572F					115		12.0	
28	1	48"x30"x30"H - SS SLIDING DOOR TABLE	ADVANCE TABCO									
29	1	COUNTERTOP MICROWAVE OVEN							115		1150.0 W	
30	1	TWO DOOR PRODUCTION REFRIGERATOR	TRUE FOOD SERVICE	TS 496					115		9.1	
31	1	COUNTER SHUTTER	CORNELL	ERC11			3/8" W	SHUTOFF	120	1	1440.0 W	FINAL CONNECTION BY ELEC. CONT.
32	1	ICE MACHINE	HOSHIZAKI	HM-1018AH			3/8" W	SHUTOFF	115	1	5.2	FINAL CONNECTION BY ELEC. CONT.
33	1	LIGHT COMMERCIAL DISPOSER	INSINKERATOR	1/2 HP, 115V					115			FINAL CONNECTION BY ELEC. CONT.

SCOPE OF WORK

- 1 GENERAL DIVISION (WALLS AND FINISHES) - SEE DRAWING A1-2 FOR LOCATION OF WALLS AND FINISHES INCLUDED IN CONTRACT.
- 2 KITCHEN EQUIPMENT - PROVIDED AND INSTALLED BY OWNER (EXCEPT FINE ELECTRICAL HOOR-UP).
- 3 ELECTRICAL WORK - ALL ELECTRICAL WORK TO BE INCLUDED IN BID AS SHOWN ON DRAWINGS AND SPECIFICATIONS.
- 4 FIRE ALARM WORK - ALL FIRE ALARM WORK TO BE INCLUDED IN BID AS SHOWN ON DRAWINGS AND SPECIFICATIONS. WORK TO INCLUDE CONNECTING SMOKE SHUTTER TO FIRE ALARM SYSTEM.
- 5 FINIC WORK - ALL FINIC WORK TO BE INCLUDED IN BID AS SHOWN ON DRAWINGS AND SPECIFICATIONS.
- 6 PLUMBING - ALL PLUMBING WORK TO BE INCLUDED IN BID AS SHOWN ON DRAWINGS AND SPECIFICATIONS. (EXCEPT INSTALLATION OF KITCHEN EQUIPMENT AND FINE HOOR-UP).
- 7 SPRINKLER SYSTEM - OWNER TO INSTALL A COMPLETE SPRINKLER SYSTEM.

REVISIONS	DATE	DESCRIPTION
1	7-13-13	ISSUED PER A1-2

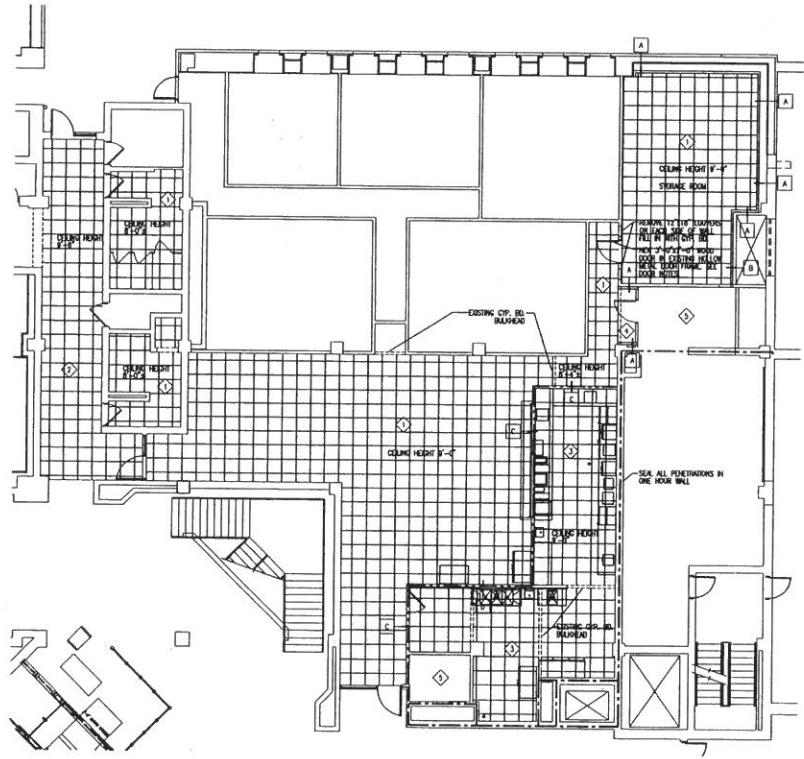
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**New Kitchen for
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CHARLESTON, WEST VIRGINIA**
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ENLARGED KITCHEN PLAN

DRAWN LJB PAB	CHECKED CHW
DATE June 13, 2013	COMM. NO. 1322

A1-1



ENLARGED KITCHEN PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTE

1. CONTRACTOR TO PROVIDE NEW WALLS AND CEILING IN AREAS AS SHOWN.
2. CONTRACTOR TO PROVIDE NEW BLACK VINYL CORNER BASE IN AREAS OF NEW WALLS.
3. CONTRACTOR TO INSTALL NEW CEILING AS PREVIOUSLY INSTALLED HEIGHTS.
4. FINISHING WILL BE BY OTHERS.

DOOR NOTES

PROVIDE 3'-0" x 7'-0" (FIELD VENEY SIZE) 1 3/4" WOOD DOOR FOR EXISTING HOLLOW METAL FRAME. PROVIDE NEW HINGES TO MATCH EXISTING SIZE. PROVIDE NEW LOCK SET, VENYING TO BE COORDINATED WITH OWNER.

CEILING TYPES

- ◇ 2'x2' 15/16" ARMSTRONG GRID WITH CERAMANTEC BRANCO TILE.
- ◇ 2'x2' 9/16" PEXELUX GRID WITH ANTISTATIC OCTANA 2'x2' TEGULAR.
- ◇ 2'x2' FINISHED AND INSTALLED BY OWNER IN KITCHEN AREA.
- ◇ CRIPSLAM WALL BOARD ON 3 5/8" METAL STUDS @ 16" O/C.
- ◇ EXPOSED STRUCTURE.

WALL TYPES

- A NEW 3 5/8" STUDS WITH 5/8" CIP. BD. ON ONE SIDE ONLY BRACE TOP OF WALL TO STRUCTURE.
- B NEW 2 1/2" METAL STUDS WITH 5/8" CIP. BD. ON ONE SIDE ONLY BRACE TOP OF WALL TO STRUCTURE.
- C BY OWNER - EXTEND EXISTING WALL TO STRUCTURE AND SEAL TIGHT FOR A SMOKE TIGHT PARTITION.
- D BY OWNER - PROVIDE FURRING AND 5/8" MOISTURE RESISTANT CIP. BD. WALL TO COVER NEW PLUMBING - SEAL TIGHT FOR SMOKE TIGHT PARTITION.

REVISIONS NO.	DATE	DESCRIPTION
1	12-11-12	ISSUE FOR BIDDING
2		
3		
4		
5		
6		
7		
8		
9		
10		

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ENLARGED CEILING, FLOOR PLAN

DRAWN	CHECKED CHW
DATE June 13, 2013	COMM. NO. 1322

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Charleston, West Virginia
Revised July 19, 2013
Reissued as Addendum No. 2**

CONSTRUCTION DOCUMENTS

OWNER

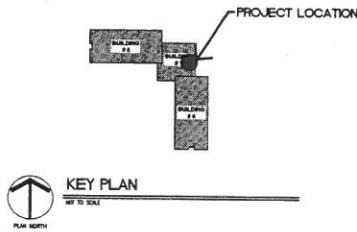


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KEY PLAN



DRAWING INDEX

SHEET NO.	SHEET NAME
CS-1	CONDT SHEET - REVISED JULY 19, 2013
ARCHITECTURAL	
A1-1	ENLARGED KITCHEN PLAN - REVISED JULY 19, 2013
A1-2	ENLARGED CEILING, FLOOR PLAN - ADDED JULY 19, 2013
MECHANICAL	
P1-1	KITCHEN PLUMBING PLAN
M1-1	KITCHEN HVAC PLAN - REVISED JULY 19, 2013
ELECTRICAL	
E1-1	LIGHTING FLOOR PLAN - REVISED JULY 19, 2013
E2-1	ELECTRICAL POWER PLAN - ADDED JULY 19, 2013

BUILDING INFORMATION

USE AND OCCUPANCY CLASSIFICATION
OCCUPANCY CLASSIFICATION
BUSINESS OCCUPANCY
(PER 2009 INTERNATIONAL BUILDING CODE CHAPTER 3)

SYMBOLS LEGEND

- KEYED NOTE**
- EQUIPMENT TAG**
- SMOKE TIGHT PARTITION (STOIC)
WALL/BULKHEAD AND SEAL TO BOTTOM OF DECK
- EXISTING 1 HOUR RATED WALL (SEAL ANY CRACKS AND OPENINGS WITH FIRESTOPPING CEMENT)



DEMOLITION NOTES:

1. REMOVE ALL EXISTING FIXTURES, CONDUIT, AND JUNCTION BOXES IN NEW WORK AREA CEILING. MINIMUM CIRCUIT REMOVAL.
2. REMOVE ALL RECEPTACLES, WIRING, CONDUIT IN KITCHEN AREA.
3. ALL OTHER DEMOLITION WORK SPECIFIED IN RELEVANT NOTES.

GENERAL NOTES:

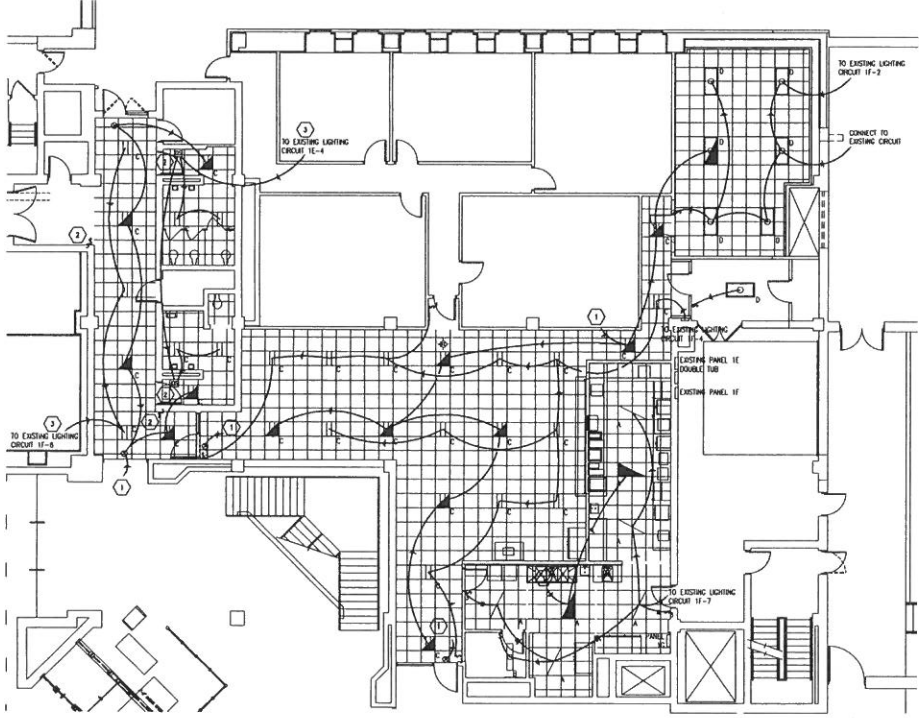
1. ELECTRICAL CONTRACTOR TO PROVIDE ALL MATERIALS REQUIRED TO SEAL ALL FIRE AND SMOKE WALL PENETRATIONS PER U.L. STANDARDS INDICATED IN FIRESTOP SPECIFICATION SECTION 7041.
2. MINIMUM CONDUIT SIZE SHALL BE 3/4".
3. ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND THE AUTHORITY HAVING JURISDICTION (A.H.J.).

KEYED NOTES

1. CONNECT TO EXISTING EMERGENCY PANEL 3 CIRCUIT 14. CONFIRM LOAD WILL NOT EXCEED CIRCUIT'S AMPLITY.
2. EXISTING LIGHTING SWITCH OR OCCUPANCY SENSOR TO REMAIN.
3. FOR AREAS NOT BEING DEMOLISHED -- ELECTRICAL CONTRACTOR SHALL REPLACE ALL CONDUIT AND WIRE TO THE FIRST PULL POINT PRIOR TO OR AFTER NEW WORK SPECIFIED ON DRAWING.

LIGHTING SYMBOL LEGEND

- ⊞ EXISTING DUAL LIGHT SWITCHING OCCUPANCY SENSOR
- ⊞ EXISTING THREE-WAY WALL SWITCH
- ⊞ SHAWED HALF OF FIXTURE INDICATES FIXTURE TO BE CONNECTED TO EMERGENCY CIRCUIT
- ⊞ RECESSED CASHED CEILING LAY-IN 2'x4' FLUORESCENT TRIFTER
- ⊞ RECESSED CEILING LAY-IN 2'x4' FLUORESCENT TRIFTER
- ⊞ SURFACE MOUNTED 1'x4' FLUORESCENT TRIFTER
- ⊞ RECESSED CEILING LAY-IN 2'x2' LED FIXTURE
- ⊞ CEILING MOUNTED EXIT SIGN ARROWS AS INDICATED ON PLANS
- ⊞ SINGLE POLE WALL SWITCH
- ⊞ THREE-WAY WALL SWITCH
- ⊞ FOUR-WAY WALL SWITCH
- ⊞ CEILING MOUNTED COMBINATION FIRE ALARM AND VESDA DEVICE (SEE POWER AND SYSTEMS PLAN)
- ⊞ LINE VOLTAGE CONDUIT AND WIRING
- ⊞ CIRCUIT HORIZONTAL TO PANELBOARD



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

PANEL 1G (NEW)

LOCATION: KITCHEN
FEEDER SIZE: EXISTING 4 - #4/0 WITH GROUND FED FROM SUB STATION V8 (1)

225A MAIN		120/208 VOLTS 3 PHASE 4 WIRE SURFACE MOUNTED			CIRCUIT		PHASE LOAD		CIRCUIT		DESCRIPTION		BREAK	
A	P	DESCRIPTION	WATTS	NO.	A	B	C	NO.	WATTS	DESCRIPTION	A	P		
20	1	GENERAL PURPOSE RECEPTACLE	180	1	1980			2	1800	ELECTRIC HOT PLATE ITEM 2			20	1
20	1	CONNECTION MICROWAVE ITEM 3	1800	3		2904		4	1104	RECEPTACLES AND FOOD PREP TABLE ITEM 4			20	1
30	1	DOUBLE BELGIAN WAFFLE MAKER ITEM 5	2400	5			4000	5	1800	DUAL PANE GRILL ITEM 8			20	2
30	2	TURBO CHEF OVEN ITEM 7	2500	7	4100			8	1800	JORY 1#				
		-- 20BY 1#	2500	9		3500		10	1000	COOKER/WARMER ITEM 8				
30	2	TURBO CHEF OVEN ITEM 7	2500	11			3604	12	1104	RECEPTACLES AND FOOD PREP TABLE ITEM 4			20	1
		-- 20BY 1#	2500	13	3754			14	1254	WORKTOP SOLID DOOR FREEZER ITEM 9			20	1
20	2	CONVEYOR TOASTER ITEM 10	1404	15		2904		16	1500	TABLE TOP HOT FOOD MERCHANDISER ITEM 14			20	1
		-- 20BY 1#	1404	17		3204		18	1800	DRINK CARBUCCINO MAKER ITEM 15			20	1
40	2	BUNN COFFEE SYSTEM ITEM 17	3000	19	4280			20	1260	RECEPTACLES, SALES ITEM 13, POPPS ITEM 20			20	2
		-- 20BY 1#	3000	21		5080		22	2080	COMMERCIAL DISHWASHER W/ BOOST ITEM 28			20	1
20	1	THREE DOOR FREEZER ITEM 27	1440	23			3520	24	2080	JORY 1#				
20	1	COUNTERTOP MICROWAVE OVEN ITEM 29	1800	25	2847			26	1047	TWO DOOR PRODUCTION REFRIGERATOR ITEM 30			20	1
20	1	COUNTER SHAUTTER ITEM 31	1440	27		2748		28	1308	RECEPTACLES AND ICE MACHINE ITEM 32			20	1
20	1	TWO DOOR PRODUCTION REFRIGERATOR ITEM 30	1847	29			2271	30	1224	FOOD WASH DISPENSER			20	1
20	1	VENDING MACHINE	1200	31	2400			32	1200	VENDING MACHINE			20	1
20	1	VENDING MACHINE	1200	33	2400			34	1200	VENDING MACHINE			20	1
20	1	VENDING MACHINE	1200	35	2400			36	1200	VENDING MACHINE			20	1
20	1	VENDING MACHINE	1200	37	1200			38	--	SPARE			20	1
20	1	VENDING MACHINE	1200	39	1200			40	--	SPARE			20	1
20	1	EXHAUST FAN 87-10A	124	41		124		42	--	SPARE			20	1
		TOTALS	20541	20737	19123									

NOTES: PROVIDE COPPER BUSSING
PROVIDE EQUIPMENT GROUND BUS
TURN SPARE BREAKERS TO THE "OFF" POSITION
SEE HOME RUN ON PLANS FOR CRT SIZING OVER 20A.

TOTAL LOADS_80401_VA
___188___AMPS

LUMINAIRE SCHEDULE

TYPE	LAMPS	VOLTS	WATTS	DESCRIPTION	MOUNTING	BASES OF DESIGN & ACCEPTABLE MANUFACTURERS	REMARKS
A	(2)54W/29" 300K LUMENS	277V	120W	2"Wx4" LAY-IN CASHED CEILING APPLICATION TRIFTER, ACRYLIC PRISMATIC LENS	CEILING RECESSED	LITHONIA 250H 0 2 541290 PH 115120V 5W/2 0510PS	CONNECT SHAWED FIXTURES TO EXISTING EMERGENCY CIRCUIT.
B	(1)54W/29" 300K LUMENS	277V	61W	1"Wx4" SURFACE MOUNTED SHAWHOUND CLEAR LENS	CEILING SURFACE	LITHONIA W8 4 1 541290 000 5W/2 0510PS WILLIAMS MERCURY	
C	LED 5400 LUMENS 3000K	120/277V	44W	2'X2'X4" RECESSED LAY-IN TRIFTER WITH LINEAR PRISMATIC LENS, WHITE POWDER COAT FINISH, PRISMATIC TYPED HIGH REFLECTANCE SHEET METAL REFLECTOR, UNIVERSAL VOLTAGE LED DRIVER	CEILING RECESSED	COOPER/CONCRETE ZML2LS10LW-22-11 OR APPROVED EQUAL	CONNECT SHAWED FIXTURES TO EXISTING EMERGENCY CIRCUIT. FIXTURE SYMBOL.
D	(2)54W/29" 300K LUMENS	120/277V	120W	2"Wx4" LAY-IN TRIFTER, 0.125" THICK PRISMATIC ACRYLIC OPTICIZER	CEILING RECESSED	LITHONIA 25PS C 541290 PH 115120V 5W/2 0510PS OR APPROVED EQUAL	CONNECT SHAWED FIXTURES TO EXISTING EMERGENCY CIRCUIT.
EXITS	LED RED	120/277V	1.0W	SINGLE FACED EXITE LIT LED EXIT SIGN BRUSHED ALUMINUM TRIM PLATES, RECESSED HOLOGRAPHIC, BECKE SHAWED HIGH IMPACT CLEAR ACRYLIC PANELS, RED LETTERS, 11.25" X 8", AC	CEILING SURFACE	LITHONIA PRDSE 300RS LIP-1-HO-120/277 COOPER/SUNBELITE EST 300RS 1518-1-8	

REVISIONS
NO. 1
DATE 12-14-13
DRAWING BOARD AS CORDONAL 10-1



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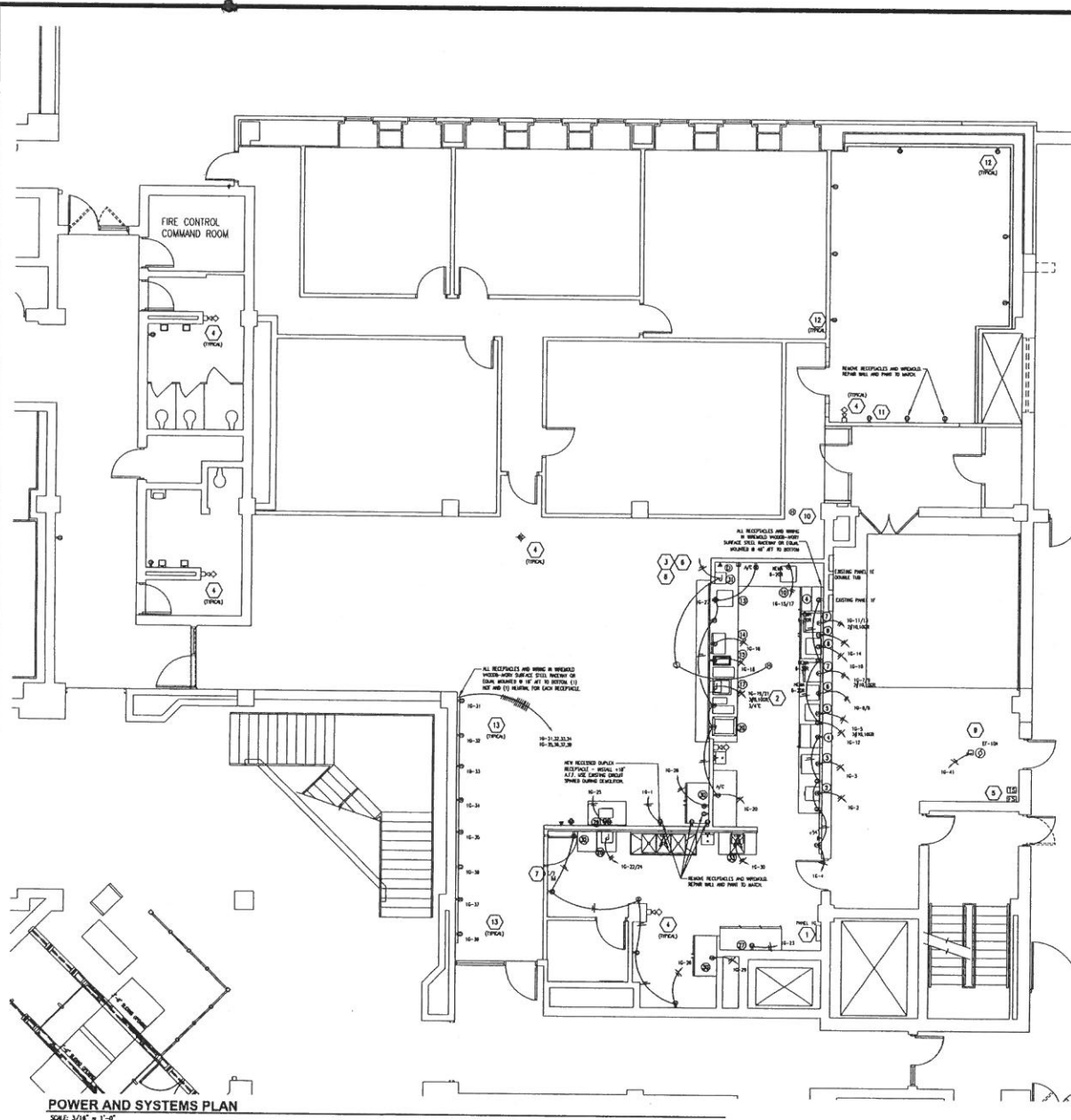
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LIGHTING PLAN

DRAWN AO NCL	CHECKED MDA
	DATE June 13, 2013
COMM. NO. 1322	

E1-1



POWER AND SYSTEMS SYMBOL LEGEND

- ⊕ EXISTING DUPLEX 20A 120V RECEPTACLE (SEE GENERAL NOTE 11 BELOW)
- ⊕ EXISTING DOUBLE DUPLEX 20A 120V RECEPTACLE (SEE GENERAL NOTE 11 BELOW)
- ⊕ EXISTING DATA JACK
- ⊕ STANDARD DUPLEX 20A 120V RECEPTACLE (SEE GENERAL NOTE 2 BELOW)
- ⊕ DOUBLE DUPLEX 20A 120V RECEPTACLE (SEE GENERAL NOTE 2 BELOW)
- ⊕ SPECIAL PURPOSE RECEPTACLE WITH NEW CONFIGURATION TO MATCH EQUIPMENT REQUIREMENTS
- ⊕ JUNCTION BOX - SIZE AS REQUIRED BY THE E.I.C.
- ⊕ 120/200V SURFACE MOUNTED PANELBOARD - SINGLE BUS
- ⊕ CEILING MOUNTED ADDRESSABLE ESTI SMOKE DETECTOR FOR SMOKE SHUTTER OPERATION
- ⊕ WALL MOUNTED COMBINATION FIRE ALARM AUDIO VISUAL DEVICE - CONNECT TO EXISTING ESTI FIRE ALARM SYSTEM
- ⊕ CEILING MOUNTED COMBINATION FIRE ALARM AUDIO VISUAL DEVICE - CONNECT TO EXISTING ESTI FIRE ALARM SYSTEM
- ⊕ CEILING MOUNTED HEAT DETECTOR
- ⊕ SPRINKLER VALVE TAMPER SWITCH
- ⊕ SPRINKLER FLOW SWITCH
- ⊕ PUSH BUTTON SMOKE SHUTTER RELEASE AND RESET DEVICE
- ⊕ TELEPHONE OUTLET
- ⊕ WALL MOUNTED TELEPHONE OUTLET AT 54" HEIGHT
- ⊕ 2 PORT DATA OUTLET WITH ONE ACTIVE JACK AND ONE SINK PORT
- ⊕/C INCHES TO MOUNT 6" ABOVE COUNTER BACKSPLASH
- ⊕/E ELECTRIC EXHAUST FAN MOTOR WITH DISCONNECT
- ⊕/F EXHAUST FAN EF-10A SWITCH
- LINE VOLTAGE CONDUIT AND WIRING
- CIRCUIT HOME/RUN TO PANELBOARD

DEMOLITION NOTES:

1. REMOVE ALL EXISTING RECEPTACLES, CONDUIT, AND JUNCTION BOXES IN NEW WORK AREA CEILING.
2. REMOVE ALL RECEPTACLES, WIRING, CONDUIT IN KITCHEN AREA.
3. ALL OTHER DEMOLITION WORK SPECIFIED IN KEYED NOTES.

GENERAL NOTES:

1. COORDINATE RECEPTACLE/PLUG TYPES WITH KITCHEN EQUIPMENT SUPPLIER.
2. ALL DUPLEX 15 & 20 AMP RECEPTACLES IN KITCHEN & DISPENSING AREA MUST HAVE GFCI PROTECTION.
3. VERIFY ALL HOUGH-IN REQUIREMENTS AND MOUNTING HEIGHTS WITH KITCHEN EQUIPMENT SUPPLIER.
4. ELECTRICAL CONTRACTOR TO PROVIDE ALL MATERIALS REQUIRED TO SEAL ALL FIRE AND SMOKE WALL PENETRATIONS PER ALL STANDARDS INDICATED IN FIRSTSTEP SPECIFICATION SECTION 7041.
5. ELECTRICAL CONTRACTOR TO PROVIDE ALL ELECTRICAL WORK FOR THE INSTALLATION OF KITCHEN EQUIPMENT UNLESS INDICATED ON CONTRACT DRAWINGS OR NOT.
6. CONDUIT TO SUPPLY ALL KITCHEN EQUIPMENT INCLUDING SMOKE SHUTTER. SEE PLAN A1-1 FOR EQUIPMENT SCHEDULE.
7. CONNECT SMOKE DETECTORS TO SMOKE SHUTTER CONTROLS. CONNECT SMOKE DETECTORS INTO EXISTING ESTI FIRE ALARM SYSTEM LOCATED IN FIRST FLOOR FIRE CONTROL COMMAND ROOM. SHUTTER SHALL OPERATE PER A1-1 REQUIREMENTS.
8. MINIMUM WIRE SIZE SHALL BE # 12 AWG COPPER THHN.
9. MINIMUM CONDUIT SIZE SHALL BE 3/4".
10. ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND THE AHJ.
11. LABEL ALL EXISTING RECEPTACLES (DO RETURN) IN AREAS BEING DEMOLISHED WITH PANEL NAME AND CIRCUIT NUMBER ON BACK OF RECEPTACLE COVER.

KEYED NOTES:

1. REMOVE AND REPLACE EXISTING PANEL 16 WITH NEW SURFACE MOUNTED 42 POLE 120/200V 225A MCB PANEL. USE EXISTING WIRE, CONDUIT AND FEEDER BREAKER FROM PANEL. SUBSTITUTION 16 IN DISCONNECT. COORDINATE BREAKER LOCATION, AMPACITY AND WIRE SIZES.
2. COFFEE SYSTEM CIRCUIT 01-19/21 TO BE WIRING TO A 2 POLE CIRCUIT BREAKER WITH A NEUTRAL.
3. COUNTER SMOKE SHUTTER LOCATION. CONNECT SMOKE SHUTTER RELEASE AND RESET PUSH BUTTON. INTEGRATE SMOKE DETECTORS SHOWN ON PLAN TO SHUTTER RELEASE CONTROLS.
4. PROVIDE AND INSTALL FIRE ALARM DEVICES THAT ARE COMPATIBLE WITH EXISTING (ESTI) FIRE ALARM SYSTEM. ADD TO EXISTING CIRCUIT SCHED. AREA. PROVIDE ADDITIONAL EQUIPMENT AS NECESSARY.
5. SUPPLIED BY DIVISION 13. WIRING BY DIVISION 16 TO EXISTING ESTI FIRE ALARM SYSTEM.
6. PROVIDE ALL WIRING AND CONDUIT COVERED UNDER MANUFACTURER'S WIRING DECLARATIONS TO INCLUDE BUT NOT LIMITED TO, PUSHBUTTONS, PHOTOCELLS, SAFETY-DEVICES, INTERLOCKS AND REMOTE OPERATING DEVICES, FORWARD POWER AND CONTROLS.
7. INSTALL AND LABEL EXHAUST FAN SWITCH EF-10A. EXHAUST FAN SWITCH SHALL BE LINE-UP HORIZONTALLY W/ LIGHT SWITCH. DIVISION 16 TO PROVIDE AND INSTALL EXHAUST FAN SWITCH. COORDINATE WITH DIVISION 15.
8. UPON LOSS OF POWER COUNTER SMOKE SHUTTERS INTEGRAL GENERATOR WILL LOWER SHUTTER AFTER 40 SECOND DELAY. RESET PUSH BUTTON TO RESET SHUTTER TO NORMAL OPERATING CONDITIONS ONCE POWER IS RESTORED.
9. EXHAUST FAN AND DISCONNECT SUPPLIED BY DIVISION 15. CONNECTED BY DIVISION 16
10. REMOVE HEAT DETECTOR AND RETURN TO OWNER. REMOVE WIRING BACK TO FIRST CONNECTION POINT. MAINTAIN CIRCUIT INTEGRITY FOR REMAINING DEVICES.
11. EXISTING RECEPTACLE TO REMAIN.
12. INSTALL NEW RECEPTACLES. 1E-08 TO EXISTING CIRCUIT AND REUSE EXISTING SINGLE GANG BOX ON INSTALL. NEW WORKING AS NECESSARY.
13. VERIFY EACH REMOVING MACHINE SIZE AND THEIR LOCATION IN THE ROOM WITH THE OWNER PRIOR TO PLACING RECEPTACLES. THE RECEPTACLES SHALL BE LOCATED SO THE PLUGS ARE ACCESSIBLE BETWEEN THE VENDING MACHINES. RECEPTACLES SHALL NOT BE LOCATED BEHIND ANY MACHINE.

REVISIONS	NO.	DATE	DESCRIPTION
	1	7-14-12	DRAWING ADDED AS ADDENDUM No. 2

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CONSTRUCTION DOCUMENTS

Dr. D.M. PC.

**ELECTRICAL
POWER AND
SYSTEMS
PLAN**

DRAWN	AO	MDA
NDL		
	DATE	June 13, 2013
	COMM. NO.	1322

E2-1

EXHAUST FAN SCHEDULE

MARK	TYPE	MANUFACT. MODEL NO.	FAN DATA			MOTOR DATA			SERVICE	BOSES	CONTROL	REMARKS
			CFM	SP/WG	RPM	HP	EFF.	POWER				
E7-10A	INLINE CENTRIFUGAL	COOK 12550B	900	.5	1200	1/8	115/1	KITCHEN AREA	0.3	SWITCH	SPRING VERBONER SOLARIS, DISCONNECT SWITCH	

GENERAL NOTE:
PROVIDE MOTOR OPERATED DAMPER FOR ALL EXHAUST FANS EXCEEDING 3000M PER ASHRAE 62.1.

SYMBOL LEGEND

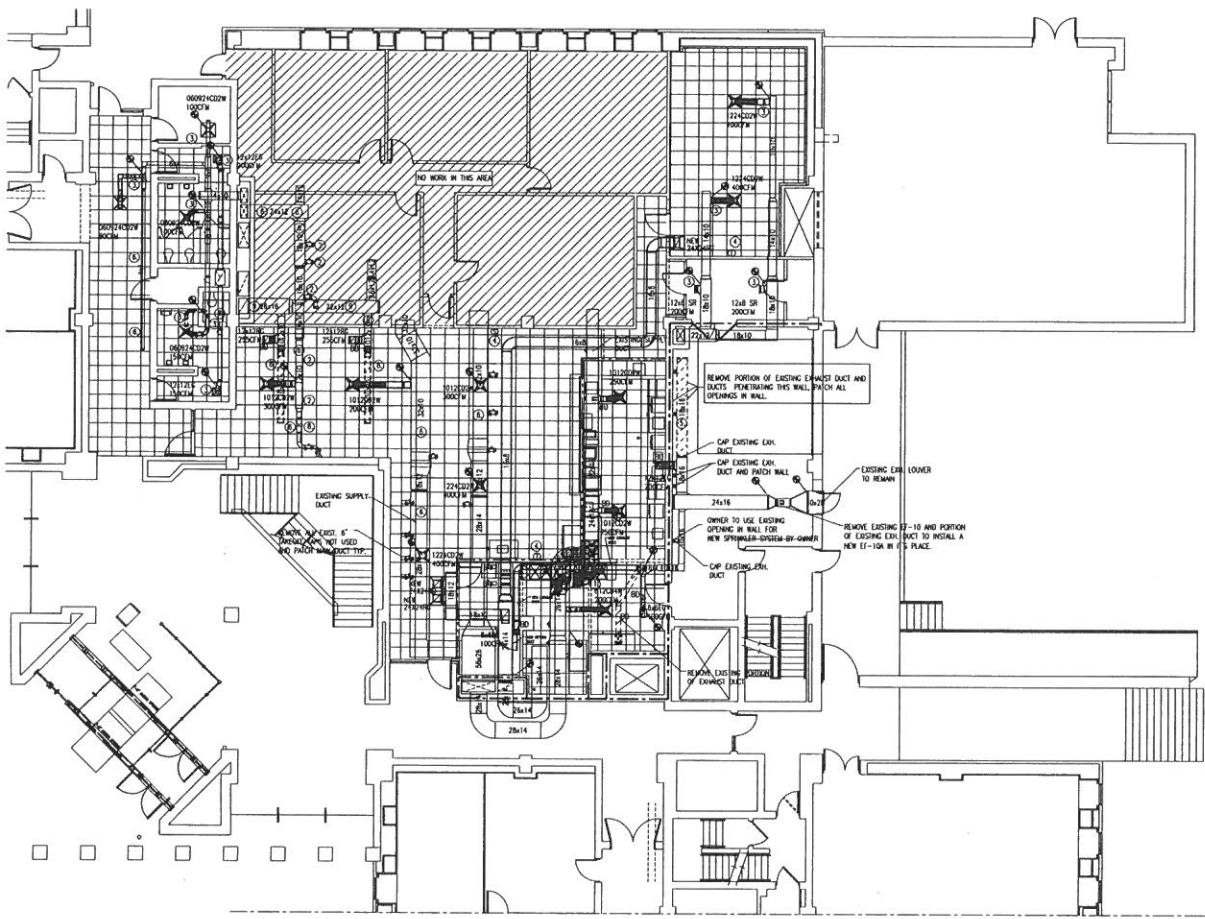
- ⊖ EXISTING DUCT TO BE REMOVED
- ▬ NEW FLEX DUCT
- ▬ NEW SUPPLY DUCT 1-1/2" DIACTHUP
- ▬ EXISTING DUCT
- ▬ NEW EXHAUST DUCT
- ⊗ NEW CEILING DIFFUSER
- ⊗ NEW CEILING EXHAUST GRILLE
- ⊗ NEW CEILING RETURN GRILLE
- ⊗ POINT OF CONNECTION NEW TO EXISTING
- ⊗ DUCT DOWN

SUPPLY/RETURN CEILING DIFFUSER SPEC.

SUPPLY CEILING DIFFUSER- TITUS TBC 24"MODULAR FACE FOR LAT-IN CEILING WHITE STEEL
 RETURN GRILLES- TITUS 3250L 30" REFLECTION 1/2"SPACING
 EXHAUST GRILLE- TITUS 3350L 35" REFLECTION 1/2"SPACING

KEYED NOTES:

- ① REMOVE AND RELOCATE EXISTING PORTION OF SUPPLY DUCTWORK AS REQUIRED TO AVOID CORNER OF DINING AREA SMOKE WALL. PROVIDE NEW DUCT AS REQUIRED TO RECONNECT BACK TO EXISTING SUPPLY DUCT SYSTEM.
- ② REMOVE EXISTING ROUND DUCT TAPS AND PATCH OPENING AT MAIN DUCT.
- ③ PROVIDE BRANCHED DAMPERS AT ALL NEW DUCT TAKEOFFS.
- ④ EXISTING THERMOSTATS AND SENSORS ARE TO REMAIN.
- ⑤ REMOVE EXISTING EXHAUST DUCT PENETRATING EXTERIOR WALL AND PATCH WALL.
- ⑥ EXISTING SUPPLY DUCT TO REMAIN. REMOVE EXISTING TAKEOFFS AND PATCH MAIN DUCT.
- ⑦ EXISTING EXHAUST DUCT TO REMAIN.
- ⑧ EXISTING PORTION OF DUCT TO BE REMOVED CAP EXISTING TAKEOFFS.
- ⑨ EXISTING RETURN DUCT TO REMAIN.



FIRST FLOOR HVAC PLAN
1/8" = 1'-0"

REVISIONS	NO.	DATE	DESCRIPTION
1	7-14-13		DINING AREA AS ADDENDUM No. 7

ZMM
ARCHITECTS & ENGINEERS

222 Lee Street, West
Charleston, West Virginia 25302
Phone: 304.342.0150
Fax: 304.345.8144
www.zmm.com

New Kitchen for
State Office Building 7
for the Department of Administration
CHARLESTON, WEST VIRGINIA

CONSTRUCTION DOCUMENTS

Of ZMM, P.C.

KITCHEN HVAC PLAN

DRAWN	CHECKED
RFQ	FD
	DATE
	June 13, 2013
	COMM. NO.
	1322

MI-1

State of West Virginia
General Services Division
Attachment A: Bid Form

Capitol Campus – Building 7
Vendeteria Renovation
Project No. GSD 136441

GENERAL SERVICES DIVISION
B7 Vendeteria Renovation
Capitol Campus – Building 7
BID FORM

We, the undersigned, having examined the site and being familiar with the local conditions affecting the cost of the work and also being familiar with the general conditions to bidders, drawings, and specifications, hereby propose to furnish all materials, equipment, and labor to complete all work in a workmanlike manner, as described in the Bidding Documents.

BASE BID: All labor, materials and equipment as stipulated in the Bidding Documents.

BASE BID AMOUNT for B7 Vendeteria Renovation and other specified work:

(\$ _____) *(Total to be written in figures and words. Where words and words differ, the number will prevail.)*

This project is a single project and will be awarded in whole. For accounting purposes only, please provide your cost per building.

MEP Kitchen Area \$ _____

ME/ Architectural Dining Area/Public Space \$ _____

NAME: _____

TITLE: _____

FIRM NAME: _____

ADDRESS: _____

ADDRESS _____

PHONE: _____

FAX: _____

EMAIL: _____

References:

Reference Name: _____
Position: _____
Address: _____
Telephone Number: _____
Project Name: _____
Project Description: _____

Reference Name: _____
Position: _____
Address: _____
Telephone Number: _____
Project Name: _____
Project Description: _____

Reference Name: _____
Position: _____
Address: _____
Telephone Number: _____
Project Name: _____
Project Description: _____

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: GSD136441

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|---|--|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Company

Authorized Signature

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.
Revised 6/8/2012