



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

Request for Quotation

RFQ NUMBER
GSD106450

PAGE
1

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

RFQ COPY

TYPE NAME/ADDRESS HERE

VENDOR

SHIP TO

DEPARTMENT OF ADMINISTRATION
 GENERAL SERVICES DIVISION
 BUILDING 3 - MOTOR VEHICLES
 1900 KANAWHA BOULEVARD, EAST
 CHARLESTON, WV
 25305 304-558-2317

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
03/21/2011				

BID OPENING DATE: 04/07/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
				ADDENDUM NO. 6		
				THIS ADDENDUM IS ISSUED TO:		
				1.) ANSWER ALL TECHNICAL QUESTIONS SUBMITTED PRIOR TO THE 02/09/2011 DEADLINE.		
				2.) TO EXTEND THE BID OPENING DATE.		
				BID OPENING DATE IS EXTENDED TO: 04/07/2011		
				BID OPENING TIME REMAINS: 1:30 PM		
				***** END ADDENDUM NO. 6 *****		
0001	1	LS		968-42		
				RENOVATIONS TO BUILDING THREE; CAPITOL COMPLEX		
				***** THIS IS THE END OF RFQ GSD106450 ***** TOTAL:		

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
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TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
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WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at www.state.wv.us/admin/purchase/vrc/hipaa.htm and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities.
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form.
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W.Va. C.S.R. §148-1-6.6).

West Virginia State Office Building No. 3 Renovations
Addenda No. 6

General Note:

Drawings may be printed to scale by printing files on 24" x 36" sheets. If a full size plotter is not available, drawing files have been forwarded to Charleston Blueprint where larger prints can be ordered.

Architectural Items:

CHANGES TO PREVIOUS ADDENDUM NO. 2:

S-A1 **TABLE OF CONTENTS**

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- I. Delete pages 1 thru TOC-7, dated 12/08/2010 and replace with pages TOC-1 thru TOC-7, dated 02/21/2011.
- II.

S-A2 **PROPOSAL FORM**

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- I. Replace "PROPOSAL FORM" dated 12/08/2010 with "PROPOSAL FORM" dated 02/21/2011.

S-A3 **INDEX OF DRAWINGS**

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- I. Replace "INDEX OF DRAWINGS" dated 12/08/2010 with "INDEX OF DRAWINGS" dated 02/21/2011.
- II. Revise the following:
1. The following two hundred eighty-four (284) drawings and thirty-three (45) sketches for clarification accompany this specification and are hereby made a part thereof.
 2. Changes to drawings are indicated with asterisks by the date:
 - a. ** Addendum No.2
 - b. *** Addendum No.6

CHANGES TO SPECIFICATIONS: (Item numbers are continuous from previous addendum)

ITEM #	SECTION	TITLE
S-A10	098413	FIXED SOUND ABSORBITIVE AND TACKABLE PANELS
I.		Replace reissued specification "098413 - FIXED SOUND-ABSORPTIVE AND TACKABLE PANELS" dated 12/08/2010 in Addendum No.2 with revised "098413 - FIXED SOUND-ABSORPTIVE AND TACKABLE PANELS" dated 02/21/2011.
S-A15	014000	QUALITY REQUIREMENTS
I.		Paragraph 1.9.A; add the following subparagraph: 4. Spray-on Fire Proofing

5. Unit Masonry Construction
6. Penetration Firestopping
7. Exterior Bronze Window
8. Geotechnical Engineering

S-A16 123661 SIMULATED STONE COUNTERTOPS

- I. Replace paragraph 2.2.A.2 with the following:
 2. Color and Patterns:
 - a. Basis-of-Design Product: Match color to Caesarstone selections:
 - 1) Caesarstone: 2740 – New window sills at First floor & 7th & 8th floor break area and window sills.
 - 2) Caesarstone: 3380 – 1st First Floor Restrooms countertops.
 - 3) Caesarstone: 2370 – Floors 2-6 break areas and window sills.
 - 4) Caesarstone: 9255 – Restrooms basement & 2-8 countertops.

S-A17 024119 SELECTIVE STRUCTURE DEMOLITION

- I. Paragraph 1.3; add the following subparagraphs:
 - D. Replicate: To reproduce in exact detail, materials, and finish unless otherwise indicated.
 - E. Dismantle: To disassemble and detach items by hand from existing construction to the limits indicated, using small hand tools and small one-hand power tools, so as to protect nearby historic surfaces; and legally dispose of dismantled items off-site, unless indicated to be salvaged or reinstalled.
- II. Paragraph 3.1.F.2; change the word 'duplicated' to 'replicated'.
- III. Paragraph 3.2.D; delete subparagraph 'e'.
- IV. Paragraph 3.5; add the following subparagraph:
 - I. Toilet partitions:
 1. Vitrolite/Carrera Glass (structural glass) partitions to be dismantled, salvaged and given to WV Surplus.
- V. Paragraph 3.8.A; delete the following subparagraphs:
 16. Toilet partitions and toilet accessories.
- VI. Paragraph 3.8.A; add the following subparagraphs:
 24. Interior rain conductors. (provide bracing/shoring if required during demolition until new storm system is installed)
 25. Two sump pumps in basement once new pumps are installed.
- VII. Paragraph 3.8.A; replace the following subparagraphs:
 20. Miscellaneous roof piping including, but not limited to roof vents. Patch roof membrane as necessary until new roofing is installed.
- VIII. Paragraph 3.8.B; add the following subparagraphs:
 11. Vitrolite/Carrera Glass (structural glass) partitions to be dismantled, salvaged and given to WV Surplus.
- IX. Paragraph 3.8.C; delete the following subparagraphs:
 2. Two sump pumps in basement.
 3. Interior rain conductors. (provide bracing/shoring if required).
- X. Paragraph 3.8.C; replace the following subparagraphs:
 5. All marble wall veneer, wainscot, base and counters on the first floor, unless noted otherwise.
 6. All marble wall veneer, wainscot and base attached to the core walls, floor 2 through 8, unless noted otherwise.
 7. All marble wall veneer, wainscot and base attached to south corridor wall of the south corridor between column lines 6 & 7, including the column pilaster, but excluding area to be removed per drawing 2/AD-501.
 14. Door and frame at fire stairways, unless noted otherwise.

S-A18 084126 ALL-GLASS ENTRANCES AND STOREFRONTS

- I. Delete paragraph 2.4.G and all subparagraphs.
- II. Delete paragraph 2.4.I and all subparagraphs.

S-A19 085123 INTERIOR WINDOW & DOOR STEEL FRAMES

- I. Replace paragraph 3.3.A with the following:
 - A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.
- II. Replace paragraph 3.3.B.2 subparagraphs with the following:
 - 1. Testing Methodology: Testing of windows for air-penetration resistance and water resistance will be performed according to AAMA 502, Test Method B, by applying same test pressures required for performance.
 - 2. Testing Extent: Two windows (TYPE G, on south elevation), as selected by Architect and a qualified independent testing and inspecting agency. Window shall be tested immediately after installation.

S-A20 087100 FINISH HARDWARE

- I. Revise Hardware Set 32B (for doors 121 & 123) with the following:
Hardware Set 32B

1	SET	PIVOT	L147	606	RIX
1	EA	INT.PIVOT	M19	606	RIX
1	EA	LOCKSET	L9070R 93N	606	SCH
1	EA	CLOSER	3131B	606	LCN
- II. Add the following Hardware Set 32C (for door 122B) as follows:
Hardware Set 32c

2	SET	PIVOT	L147	606	RIX
2	EA	INT.PIVOT	M19	606	RIX
2	EA	PUSH BARS	10	606	ROC
2	EA	PULLS	550DT	606	VON
2	EA	CLOSERS	3131B	606	LCN

S-A21 096900 ACCESS FLOORING

- I. Delete paragraph 2.3.E and all subparagraphs.
- II. Paragraph 2.3.F; add the following subparagraph:
 - 4. Quantity:
 - a. Basement: 40
 - b. 6th Floor: 25
 - 5. Location: Coordinate with HVAC design.

S-A22 095113 ACOUSTICAL PANEL CEILINGS

- I. Replace specification "095113 – ACOUSTICAL PANEL CEILINGS", dated 10/08/2010, with specification "095113 – ACOUSTICAL PANEL CEILINGS" dated 01/18/2011.

S-A23 096816 SHEET CARPETING

- I. Replace specification "096816 – Sheet Carpeting", dated 10/08/2010, with specification "096816 – Sheet Carpeting" dated 01/21/2011.

S-A24 102113 TOILET COMPARTMENTS

- I. Paragraph 2.2; add the following subparagraph:
 - J. Locations: First floor restrooms C.WRR & C.MRR
- II. Paragraph 2.3; add the following subparagraph:
 - H. Basement and floors 2 through 8, rooms C.WRR & C.MRR

S-A25 102800 TOILET, BATH AND LAUNDRY ACCESSORIES

- I. Paragraph 2.2; add the following subparagraphs:

F. Waste Receptacle (Under lavatory, basement floor and 2 through 8 floor restrooms):

1. Basis-of-Design Product: 16 ½" square x 27" tall.
2. Mounting: Freestanding.
3. Capacity: 25 gallon.
4. Material and Finish: Plastic, beige.

G. Waste Receptacle (Under lavatory, first floor restrooms):

1. Basis-of-Design Product: Rubbermaid / United Receptacle B1414SS Open Top Small Clean Room Receptacle.
2. Mounting: Freestanding.
3. Capacity: 14 Gallon Capacity - 14" Sq. x 21" H.
4. Material and Finish: Stainless steel legs with plastic buttons protect floors.
5. Liner: Reusable plastic liner.

H. Waste Receptacle (family restrooms):

1. Basis-of-Design Product: Rubbermaid / United Receptacle CC16SSS Metallic Designer Line Open Top Waste Receptacle
2. Mounting: Freestanding.
3. Capacity: 15 Gallon Capacity - 15" Dia. x 28" H
4. Material and Finish: Satin Stainless Steel.
5. Liner: Galvanized steel inner liner.

I. Baby Changing Horizontal Station

1. Basis-of-Design Product: Koala Kare kB110-SSWM
2. Mounting: Surface Mount
3. Description: Stainless steel clad surface mounted horizontal baby changing station with polyethylene interior.
4. Material and Finish: Stainless Steel

S-A26 012200 UNIT PRICES

I. Paragraph 3.1; add the following:

J. Unit Price 5: Reconstructed exterior corner of stone veneer at the 7th & 8th floor.

1. Description: Reconstruction of exterior corner stone veneer at the 7th & 8th floor per detail SK-13 issued in Addendum No. 2, dated 12/08/2010.
2. Unit of Measurement: Exterior corner per detail SK-13.
3. Quantity of units to be replaced in the Base Bid:

- a. One (1) exterior corner (column A.1/1.5) of stone veneer at the 7th & 8th floor.

END OF CHANGES TO ARCHITECTURAL SPECIFICATIONS

CHANGES TO ARCHITECTURAL DRAWINGS: (Item numbers are continuous from previous addendum)

Note: All drawing changes for this addendum are marked w/ Revision Note No. 3 and dated, 12/13/2010

~~D-A49~~ AD-101 FIRST FLOOR DEMOLITION PLAN

Refer to SK-19 for the following revisions:

- I. Change note "ALL EXST PLAST BULKHEAD/WINDOW SOFFITS TO REMAIN, TYP THROUGHOUT THE BLDG" to "REMOVE PLASTER BULKHEAD/WINDOW SOFFITS @ FIRST FLOOR ONLY. UPPER FLOOR PLASTER BULKHEAD/WINDOW SOFFITS TO REMAIN"
- II. Change note "FAN COIL TO BE REMOVED; MARBLE TO REMAIN, TYP OF 11 @ DMV SPACE" to "FAN COIL UNITS TO BE REMOVED UNDER WINDOWS WITHIN ROOM 138 (DMV SPACE). ALL NECESSARY MARB TO BE REMOVED, CATALOGED AND SALVAGED FOR REINSTALLATION"
- III. Change note "INSTALL PROTECTIVE PANELS FOR MARBLE WALL FINISHES TO REMAIN" to "INSTALL PROTECTIVE PANELS WHERE MARBLE WALL FINISHES ARE TO REMAIN".
- IV. Add note "REMOVE, CATALOG AND SALVAGE ALL NECESSARY MARB PANELS TO ACCESS EXST PIPING & DUCTS IN EXTERIOR WALL CHASES, TYP OF 14 LOCATIONS"

D-A50 AD-102 SECOND FLOOR DEMOLITION PLAN

- I. Change note "ALL EXISTING MEP SYSTEMS TO BE REMIVED WITHIN EXTERIOR WALL CHASES, TYP ON ALL FLRS" to "ALL EXISTING MEP SYSTEMS TO BE REMOVED WITHIN EXTERIOR WALL CHASES, TYP ON ALL FLRS. (72 CHASES PER FLR @ FLRS 1 THRU 6, 48 CHASES PER FLR @ FLRS 7 & 8)".

D-A51 A-100 BASEMENT FLOOR PLAN

- I. Refer to Drawing A-111 dated 12/13/2010 for the updated basement floor plan of the Loading Pavilion.
- II. Change note near column line D1 from "RAISED SLAB ON DECK" to "RAISED CONC SLAB OVER RIGID INSULATION FILL, SEE STRUCT DWGS"

D-A52 A-101 FIRST FLOOR PLAN

- I. Provide acoustical panels on east walls of rooms 113 & 114, similar to 1A/A408 (without niche). No acoustical panels on west walls of rooms 113 & 114, and east walls of rooms 104 & 112.
- II. Room 122: Change note "EXIST TERRAZZO FLOOR: REPAIR CRACKS/CHIPS AS NEEDED & REFINISH" to "EXIST TERRAZZO FLOOR TO BE REFINISHED, TYP."

D-A53 A-111 LOADING PAVILION PLANS

- I. 2/A-111;
 - a. PC to add floor drain north of freight elevator.
 - b. PC to provide a 3/4" water line from rain cistern to Irrigation Control Unit (ICU) from Bldg 3 to Loading Pavilion (LP), north of freight elevator and +/- 50'-0" from ICU to east wall of LP.
 - c. PC to provide back flow preventor for ICU as required by green wall manufacturer.
 - d. EC to provide telephone line to ICU as required by green wall manufacturer.
 - e. EC to provide 1" conduit +/- 50'-0" from ICU to east wall of LP as required by green wall manufacturer.

D-A54 AC-103 REFLECTED CEILING PLAN – THIRD FLOOR

- I. Replace Drawing AC-103 dated 10/8/2010, with reissued Drawing AC-103 dated 1/21/2011.
- II. Revised suspended acoustical panel size from 30"x54" to 24"x54"
- III. Revised LEGEND.
- IV. Add note "6" UTILITY CHANNEL ACCOMMODATES 48" LIGHT FIXTURES OR HVAC DIFFUSERS, SPRINKLER HEADS & PERFORATED MTL PANELS FOR RETURN AIR

CLNG PLENUM. PLAN SHOWS TYPICAL LAYOUT FOR SPRINKLERS AND LIGHT FIXTURES ON FLRS 2-6. SPECIFIC LOCATIONS OF SPRINKLERS, HVAC & LIGHTING COMPONENTS ARE SHOWN ON FP/M/EL DWGS. ALL LAYOUTS ARE TO BE COORD W/ OWNERS FINAL APPROVED TENANT LAYOUT PLANS PRIOR TO INSTALLATION."

D-A55 AC-107 REFLECTED CEILING PLAN – SEVENTH FLOOR

- I. Replace Drawing AC-107 dated 10/8/2010, with reissued Drawing AC-107 dated 1/21/2011.
- II. Revised suspended acoustical panel size from 30"x54" to 24"x54".
- III. Revised LEGEND.
- IV. Add note **"6" UTILITY CHANNEL ACCOMMODATES 48" LIGHT FIXTURES OR HVAC DIFFUSERS, SPRINKLER HEADS & PERFORATED MTL PANELS FOR RETURN AIR CLNG PLENUM. PLAN SHOWS TYPICAL LAYOUT FOR SPRINKLERS AND LIGHT FIXTURES ON FLRS 7 & 8. SPECIFIC LOCATIONS OF SPRINKLERS, HVAC & LIGHTING COMPONENTS ARE SHOWN ON FP/M/EL DWGS. ALL LAYOUTS ARE TO BE COORD W/ OWNERS FINAL APPROVED TENANT LAYOUT PLANS PRIOR TO INSTALLATION."**

D-A56 A-401 ENLARGED FIRST FLOOR PLAN

- I. Room 115; Change keynote from "9.8 – TERRAZZO FLOORING" to "9.9 – TILE"

D-A57 A-404 ENLARGED TOILET ROOM PLANS & ELEVATION

- I. 4/A-404: Mirrors shown are designated as '8' are to be custom frameless mirrors.
(See Item D-A24 thru A26 for the addition of SST framed mirror (full length).

D-A58 A-405 ENLARGED TOILET ROOM PLANS & ELEVATION

- I. 4/A-405: Mirrors shown are designated as '8' are to be custom frameless mirrors.
(See Item D-A24 thru A26 for the addition of SST framed mirror (full length).

D-A59 A-409 INTERIOR ELEVATIONS

- I. 3/A-409: Elevation 7th floor; Revise glass letter @ lower right corner of each pane from "T" to "EG"

D-A60 A-603 DOOR & WINDOW TYPES

- I. 1/A-603; Revise note "NEW DOOR TO MATCH EXISTING, FV" to **"DOOR TYPE 3 TO MATCH EXISTING SALV DOOR TYPE 2. SEE DOOR SCHED FOR TYPE 3 & 3A DOOR WIDTH."** (doors 100A.1 thru 100A.6 are existing salvaged doors located on the Machine Room Floor)

D-A61 A-604 DOOR SCHEDULE

- I. 9/A-604:
Add the following note to DOOR SCHEDULE & NOTE LEGEND:
T. PANIC HARDWARE BY ALL-GLASS DOOR MANUF.
- II. 13/A-604:
Door 119.1 Revise NOTES to **"C, P, J, T, and ALIGN DOOR HEIGHT W/ MRB JOINT"**
- III. Door 121 Revise DOOR/SIZE/WIDTH from "6'-0" to **"3'-0"**
- IV. Door C.CL Revise FRAME TYPE from "EXIST" to **"EXIST/B"**.
- V. Door Revise FRAME TYPE from "EXIST" to **"EXIST/B"**.
- VI. EX.ST.W
- VII. Door EX.ST.E Revise FRAME TYPE from "EXIST" to **"EXIST/B"**.
- VIII. Door 122B Revise FRAME TYPE from "-" to **"2/A-407"**
- IX. Revise HDWR SET from "32" to **"32C"**
- X. Door 124 Revise NOTES for from "P" to **"P, INCLUDING TRANSOMS"**
- XI. Door 125 Revise NOTES from "J" to **"J, NO LOUVER"**

XII.	Door 505	Revise NOTES from "C,P" to "P"
XIII.	Door 507.1	Revise FRAME TYPE from "-" to "L"
XIV.	Door 705	Revise NOTES for from "C, M, P" to "C, P"
XV.	Door 706.2	Revise NOTES for from "-" to "M"

D-A62 A-605 DOOR SCHEDULE & DOOR DETAILS

	3/A-605:	
I.	Door 803.1	Revise DOOR TYPE from "9" to "6"
II.		Revise FRAME MAT'L from "HM" to "AL"
III.		Revise FRAME TYPE from "A" to "L"
IV.		Revise NOTES for from "B, D, J" to "B, D"
V.	Door 803.3	Revise NOTES from 'B, J' to 'B'
VI.	Door 805.1	Revise DOOR MAT'L from "AL/GL" to "SCW"
VII.		Revise DOOR TYPE from "12" to "6"
VIII.		Revise FRAME TYPE from "-" to "L"
IX.		Revise FRAME TYPE from "-" to "L"
X.		Revise NOTES for from "B, D, J" to "B, D"
XI.	Door 805.3	Revise NOTES from 'B, J' to 'B'

D-A65 A-100 BASEMENT FLOOR PLAN

- XII. Add the following door and wall:
Wall type '1BD' along column line 'D' from column D3 to east wall of room B103. Provide door type '7' and frame type 'A' within wall per SK-22. Door hardware set '5' similar to door 'BM3.2, but with opposing swing door leaves.
- XIII. Reverse swing of door 'BM3.1' to have door swing out into west corridor B101B. See SK-22.

D-A66 A-508 INTERIOR DETAILS

- I. SK-23A – Revised detail 17/A-508 'ACOUSTIC WALL PANEL AT CHAIRRAIL'
- II. SK-23B – Revised detail 18/A-508 'ACOUSTIC WALL PANEL AT WINDOW'
- III. SK-23C – Revised detail 19/A-508 'ACOUSTIC WALL PANEL TO PANEL JOINT'
- IV. SK-23D – Revised detail 20/A-508 'ACOUSTIC WALL PANEL AT CEILING'

END OF CHANGES TO ARCHITECTURAL DRAWINGS

Civil Items:

Since the submission of Addendum #2 Site Plans dated 12/08/2010, revisions have continued on the plans to fine-tune and provide additional information for construction. The following are the revised plan sheets and a brief description of revisions made to them:

CD-001 SITE DEMOLITION PLAN

Please remove and discard Sheet CD-001 from the previous plan set, Addendum No. 2 dated 12/08/2010, and replace with Sheet CD-001, Addendum No. 3 dated 01/21/2011 (Note: These references may not correspond to actual issued Addendum numbers). Revisions to this plan sheet include, but are not limited to, the following:

- Revisions have been made to phasing of pavement removal. The easternmost parking bay is now shown to remain in place and useable until Phase 2 demolition.
- A note has been added that the Contractor must coordinate sidewalk removal with the Owner to insure adequate pedestrian access through and/or around the construction site.
- The limit of work has been expanded slightly to include; curb removal, grading and reconstruction at the easternmost island in the parking lot, and a storm sewer tie-in at the western side of the parking lot.

C-001**SITE PLAN**

Please remove and discard Sheet C-001 from the previous plan set, Addendum No. 2 dated 12\08\2010, and replace with Sheet C-001, Addendum No. 3 dated 01/21/2011 (Note: These references may not correspond to actual issued Addendum numbers). Revisions to this plan sheet include, but are not limited to, the following:

- Hatching has been provided on sidewalk to distinguish between areas of 4" and 6" depth of new concrete sidewalk construction.
- A plan note has been added regarding curb radii and minor plan changes made to the curb information shown on the plan. The curb and sidewalk ramps are now identified by a letter designation, with corresponding details on Detail Sheet C-006.

Refer to SKC-001a, Addendum No. 6. Revisions include, but are not limited to, the following:

- Provision of hydraulic retractable bollards at two locations along the North/South walkway. Also locations of pumps and controls are shown.
- Increase curb radius to 35' at northeast corner of parking area.

C-002**STORMWATER POLLUTION PREVENTION PLAN (E&S Plan)**

Please remove and discard Sheet C-002 from the previous plan set, Addendum No. 2 dated 12\08\2010, and replace with Sheet C-002, Addendum No. 3 dated 01/21/2011 (Note: These references may not correspond to actual issued Addendum numbers). Revisions to this plan sheet include, but are not limited to, the following:

- Additional grading and other information are now provided on the plan for the temporary sediment trap and riser located on the northeast corner of Building No. 3.
- Updated tree protection fence locations are shown. The Contractor should still defer to the Landscape Plan L-001 for the official locations and layout for tree removal and protection.

- A general Construction Sequence and trench excavation notes were added to the Detail Sheet C-009. Referenced in a note on this Sheet.
- Removed temporary sediment trap from the plan.

C-003**SITE UTILITY PLAN**

Please remove and discard Sheet C-003 from the previous plan set, Addendum No. 2 dated 12/08/2010, and replace with Sheet C-003, Addendum No. 3 dated 01/21/2011 (Note: These references may not correspond to actual issued Addendum numbers). Revisions to this plan sheet include, but are not limited to, the following:

- Fine tuned storm sewer pipe lengths, slopes and depths. Provided tabulated storm sewer elevation information.
- Added drainage pipes under planter in North-South walkway and tied into the proposed storm system.
- Minor layout changes to storm, roof drain, sanitary and gray water pipe systems to provide ease of layout and legibility.
- Spare utility conduits are shown passing under sidewalk areas, defer to Landscape Plan L-002 for more information.
- Showed proposed diesel tank in driveway north of loading dock for emergency generator, as per Electrical Site Plan ES-001. It is relocated slightly to avoid conflict with storm sewer system.

C-004**SITE GRADING PLAN**

Please remove and discard Sheet C-004 from the previous plan set, Addendum No. 2 dated 12/08/2010, and replace with Sheet C-004, Addendum No. 3 dated 01/21/2011 (Note: These references may not correspond to actual issued Addendum numbers). Revisions to this plan sheet include, but are not limited to, the following:

- Minor grading revisions were made to this plan. Other revisions made to the previous plan sheets are also reflected here.
- Revised grades at larger curb radius at northeast corner of parking area.

C-006**CONSTRUCTION DETAILS**

Please remove and discard Sheet C-006 from the previous plan set, Addendum No. 2 dated 12/08/2010, and replace with Sheet C-006, Addendum No. 3 dated 01/21/2011 (Note: These references may not correspond to actual issued Addendum numbers). Revisions to this plan sheet include, but are not limited to, the following:

- Removed previous Stair Details 5, 8 and 9 due to them being duplicated on the architectural drawings.

- Added curb ramp details for Ramps D, E and F (Details 5, 6 and 8).
- Revised typical section Detail 3. Now indicating detectable warning device, aka truncated domes.
- Slight revision to Detail 7, now named Gray Water Pump Location – Basement Floor Plan.

C-007**CONSTRUCTION DETAILS**

Please remove and discard Sheet C-007 from the previous plan set, Addendum No. 3 dated 01/21/2011, and replace with Sheet C-007, Addendum No. 4 dated 02/21/2011 (Note: These references may not correspond to actual issued Addendum numbers). Revisions to this plan sheet include, but are not limited to, the following:

- Revised Detail 6 to specify 4,000 psi concrete instead of 3000, and revised Note 3 to, "Provide expansion joints every 15 feet...", instead of every 20 feet.
- Hydraulic Bollard Detail replaced Removable Bollard Detail 2/C-007.
- Added Detail 12 – Lawn Inlet Detail, Detail 13 – Type C Inlet, Detail 14 – Doghouse Manhole and Detail 15 – Rain Water Filter Anti-floatation Detail to this Sheet.

C-008**E&S DETAILS**

-
- The only revision to this sheet involved a minor wording change.

C-009**E&S DETAILS**

Please remove and discard Sheet C-009 from the previous plan set, Addendum No. 2 dated 12/08/2010, and replace with Sheet C-009, Addendum No. 3 dated 01/21/2011 (Note: These references may not correspond to actual issued Addendum numbers). Revisions to this plan sheet include, but are not limited to, the following:

- Removed or updated previous details on this Sheet.
- New Detail 3 – Section shows a cross-section through the Temporary Sediment Trap (during construction) and the Permanent Seepage Pit (after construction).
- The Sequence of Construction and Utility Line Trench Excavation Notes have been added to this sheet.
- Removed Detail Nos. 3/C-009 and 5/C-009 which were associated with previously proposed sediment pond.

Mechanical and Plumbing Items:**M-702 HVAC SCHEDULES**

- AHU-3 will now have two (2) 15HP, direct drive fans.
- AHU-4 will now have two (2) 10HP, direct drive fans.

P-100 BASEMENT FLOOR PLAN – PLUMBING

- Replace previous drawing P-100 with updated attached drawing, dated 2/21/11.

Electrical Items:**SECTION 263600 TRANSFER SWITCHES**

- The 400 Ampere UPS Transfer Switch and the 400 Ampere Mechanical Transfer Switch shall be provided with Maintenance Bypass Switches.

SKE-001 ELECTRICAL COVER SHEET

- Added a General Project Note

SKE-601 RISER DIAGRAM II

- Revised Numbered Notes #20 and #21.

ES-001 SITE PLAN

- Revised site lighting.
- Added hydraulic bollards.
- Added site receptacles at planting beds.
- Revised conduit duct bank from Building #3 Loading Pavilion to manhole for power feed to Building #1.
- Removed reference to dock leveler and moved this power connection to the building power drawings.

ES-002**SITE PLAN DETAILS**

- Added site detail sheet.
- Relocated details from Drawing ES-001 to ES-002.
- Added Duct Bank Detail B-B.
- Added Electrical Man Hole Detail.
- Added Hydraulic Bollard Detail.

EL-100**BASEMENT FLOOR PLAN - LIGHTING**

- Revised lighting layout in Operator Room B110.
- Added five exit signs on the floor.
- Revised lighting layout in the Loading Pavilion.
- Revised lighting layout in Switchgear Room BM3.

EL-101a**FIRST FLOOR PLAN - LIGHTING**

- Revised lighting in the Loading Pavilion.
- Added an exit sign.
- Revised Main Lobby 100 and Elevator Lobby 101 lighting to include life safety lighting.
- Added circuit to exterior light fixture at the exit on the plan east side of the building.
- Revised Numbered Note #2.
- Revised location of low voltage switches in Security 102.
- Added circuit for existing exterior lighting at the main canopy.
- Revised lighting in Conference Rooms 121 and 123.
- Revised lighting in Elevator Lobby 101.

SKEL-102b**SECOND FLOOR PLAN – LIGHTING**

- Removed additional lighting shown in the exterior canopy at the main entrance to the building.

SKEL-103b**THIRD FLOOR PLAN - LIGHTING**

- Added a lighting override switch for Conference Room 305.

SKEL-104a**FOURTH FLOOR PLAN - LIGHTING**

- Added one additional exit sign.
- Added a lighting override switch for Conference Room 405.

SKEL-105a**FIFTH FLOOR PLAN - LIGHTING**

- Added one exit sign.
- Revised location of a Type C downlight in the Lobby.
- Added a lighting override switch for 5TH floor Conference Room.

SKEL-106a**SIXTH FLOOR PLAN - LIGHTING**

- Added one exit sign.
- Added a lighting override switch for Conference Room 605.

SKEL-107a**SEVENTH FLOOR PLAN - LIGHTING**

- Added one exit sign.
- Added a lighting override switch for Conference Room 705.

SKEL-108a**EIGHTH FLOOR PLAN - LIGHTING**

- Added three exit signs.
- Revised spacing for light fixtures in the lower left corner of the floor plan.

- Revised lighting in two 8th floor conference rooms.

EL-109

PENTHOUSE PLAN - LIGHTING

-
-
- Added five exit signs.
 - Removed photocells.

EP-100

BASEMENT FLOOR PLAN – POWER & SYSTEMS

-
-
- The manhole outside of the Loading Pavilion has been labeled as MH #3.
 - Added circuits in plan for the Fire Pump Normal Feed and the Emergency Feed for Panelboard EDP.
 - Rearranged emergency equipment in Switchgear Room BM3.
 - Added additional power and data receptacles in Auditor's Print Room B109 and Operator Room B110.

EP-101

FIRST FLOOR PLAN – POWER & SYSTEMS

-
-
- Added power for the dock leveler in the Loading Pavilion.
 - Revised Bus Duct conduit runs.
 - Added receptacles at each building entrance and exit.
 - Added Numbered Note #26.
 - Added Numbered Note #27
 - Added Irrigation Control Panel and conduit.
 - Added General Note #1.
 - Revised Generator Fuel Tank Installation.

SKEP-100

BASEMENT FLOOR PLAN – POWER & SYSTEMS

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-
- Added Numbered Note #61.
 - Added Numbered Note #61 and Emergency Power Off Switch to Process Network Equipment Room B108.

SKEP-101**FIRST FLOOR PLAN – POWER & SYSTEMS**

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- Added Numbered Note #25 indicating the location of the granite wall. Contractor shall incorporate cost of chasing wall from below in the bid.
 - Added Generator Annunciator, UPS Annunciator, and Fire Alarm Annunciator to Security 102.
 - Receptacles for water fountains have been labeled as ground fault interrupter type receptacles.
 - Location of receptacle in the Loading Pavilion has been revised.
 - Relocated utility meter, identified as Numbered Note #9, from the exterior wall to the inside of the Utility Company Room.
 - Relocated Fire Pump Switch, identified as Numbered Note #8, from the Utility Company Room to the Transformer Room.
 - Added Numbered Notes #23, #24, and #25.
 - Added label for Feeder Duct Bank.
 - Revised location of fire alarm speaker strobe in the Utility Company Room.
 - Added a location for the Grounding Tripod.
 - Added a location for the Intersystem Ground Bar.

SKEP-102a**SECOND FLOOR PLAN – POWER & SYSTEMS**

-
- Added General Note #2
 - Added switch and power connection for privacy glass.

SKEP-103**THIRD FLOOR PLAN – POWER & SYSTEMS**

-
- Added General Note #2
 - Added switch and power connection for privacy glass.

SKEP-104**FOURTH FLOOR PLAN – POWER & SYSTEMS**

-
- Added General Note #2
 - Added switch and power connection for privacy glass.

SKEP-105 **FIFTH FLOOR PLAN – POWER & SYSTEMS**

- Added General Note #2
- Added switch and power connection for privacy glass.

SKEP-106a **SIXTH FLOOR PLAN – POWER & SYSTEMS**

- Added General Note #2
- Added switch and power connection for privacy glass.
- Added Numbered Note #7 for clarification of power feeding the data center on this floor.
- Revised Numbered Note in Conference Room 605 from #3 to #5.

SKEP-107 **SEVENTH FLOOR PLAN – POWER & SYSTEMS**

- Added General Note #2
- Added switch and power connection for privacy glass.

SKEP-108 **EIGHTH FLOOR PLAN – POWER & SYSTEMS**

- Added General Note #2
- Added switches and power connections for privacy glass.

SKEP-109b **NINTH FLOOR PLAN – POWER & SYSTEMS**

- Added General Note #2

SKEP-110 **CABLE TRAY LAYOUT**

- Revised First Floor Plan – Cable Tray Layout.

E-504 **DETAILS V**

- Revised Lighting Control System Wiring Diagram.

E-600**SINGLE LINE RISER DIAGRAM POWER DISTRIBUTION SYSTEM**

- Added note to transformer ground indicating that grounding details have been provided on Drawing E-501 for additional information.
- Added generator start circuit from Fire Pump Controller.
- Revised label on the manhole outside the Loading Pavilion to indicate it is "New Manhole #3".
- Revised breaker sizes for two breakers in Building #3 Main 480V Switchgear.
- Revised breaker size for one breaker in Emergency Distribution Panelboard EDP.

E-601**RISER DIAGRAM II**

- Revised bus duct devices to indicate circuit breakers in lieu of fusible safety switches.
- Revised Numbered Notes #3 and #4 to reflect the change to circuit breakers in lieu of fusible safety switches.
- Revised Numbered Note #19 to indicate (4) #300 in lieu of (3) #300.
- Added Numbered Note #25 to identify 800A Bus Duct.
- Added "15kVA" tag to the transformer serving Panel LSLP.
- Revised the Numbered Note on the secondary feeder from Transformer T8NP2 from #9 to #23.
- Revised the Numbered Note on the secondary feeder from Transformer T8NP1 from #9 to #23.
- Revised the Numbered Note on the secondary feeder from Transformer TPNP1 from #10 to #23.

E-700**FIXTURE SCHEDULE**

- Added Fixture Types L, M, and V to the Fixture Schedule.
- Revised notes at the bottom of the Fixture Schedule.
- Revised Fixture Type LS.

CHANGES TO TECHNOLOGY DRAWINGS:

ITEM #	DRAWING	TITLE
D-T7	T-002	TECHNOLOGY SYMBOLS AND LEGENDS
I.	Add note 'L' to LEGEND NOTE: <u>[L] NETWORK CABLING FOR SECURITY CAMERAS</u> EACH SECURITY CAMERA SHOWN ON THE PLANS SHALL HAVE (1) CAT6 NETWORK OUTLET AT EACH LOCATION (BY OTHERS). EXTERIOR CAMERAS SHALL ALSO HAVE (1) 4COND. 18AWG W/SHIELD CABLE RUN TO EACH LOCATION (BY OTHERS).	
II.	Add note 'L' to SECURITY CAMERA LEGEND, type A,B,C,D,E & F	
D-T8	T-800	SECURITY SYSTEMS – BASEMENT PLAN
I.	Add 'PLAN NOTES' to drawing: <u>PLAN NOTES:</u> EACH SECURITY CAMERA SHOWN ON THE PLANS SHALL HAVE (1) CAT6 NETWORK OUTLET AT EACH LOCATION (BY OTHERS).	
D-T9	T-801	SECURITY SYSTEMS – FIRST FLOOR PLAN
I.	Add 'PLAN NOTES' to drawing: <u>PLAN NOTES:</u> EACH SECURITY CAMERA SHOWN ON THE PLANS SHALL HAVE (1) CAT6 NETWORK OUTLET AT EACH LOCATION (BY OTHERS). EXTERIOR CAMERAS SHALL ALSO HAVE (1) 4COND. 18AWG W/SHIELD CABLE RUN TO EACH LOCATION (BY OTHERS).	
D-T10	T-802	SECURITY SYSTEMS – SECOND FLOOR PLAN
I.	Add 'PLAN NOTES' to drawing: <u>PLAN NOTES:</u> EACH SECURITY CAMERA SHOWN ON THE PLANS SHALL HAVE (1) CAT6 NETWORK OUTLET AT EACH LOCATION (BY OTHERS).	
D-T11	T-803	SECURITY SYSTEMS – THIRD FLOOR PLAN
I.	Add 'PLAN NOTES' to drawing: <u>PLAN NOTES:</u> EACH SECURITY CAMERA SHOWN ON THE PLANS SHALL HAVE (1) CAT6 NETWORK OUTLET AT EACH LOCATION (BY OTHERS).	
D-T12	T-804	SECURITY SYSTEMS – FOURTH FLOOR PLAN
I.	Add 'PLAN NOTES' to drawing: <u>PLAN NOTES:</u> EACH SECURITY CAMERA SHOWN ON THE PLANS SHALL HAVE (1) CAT6 NETWORK OUTLET AT EACH LOCATION (BY OTHERS).	
D-T13	T-805	SECURITY SYSTEMS – FIFTH FLOOR PLAN
I.	Add 'PLAN NOTES' to drawing: <u>PLAN NOTES:</u> EACH SECURITY CAMERA SHOWN ON THE PLANS SHALL HAVE (1) CAT6 NETWORK OUTLET AT EACH LOCATION (BY OTHERS).	

- D-T14 T-806 SECURITY SYSTEMS – SIXTH FLOOR PLAN**
I. Add 'PLAN NOTES' to drawing:
PLAN NOTES:
EACH SECURITY CAMERA SHOWN ON THE PLANS SHALL HAVE (1) CAT6 NETWORK OUTLET AT EACH LOCATION (BY OTHERS).
- D-T15 T-807 SECURITY SYSTEMS – SEVENTH FLOOR PLAN**
I. Add 'PLAN NOTES' to drawing:
PLAN NOTES:
EACH SECURITY CAMERA SHOWN ON THE PLANS SHALL HAVE (1) CAT6 NETWORK OUTLET AT EACH LOCATION (BY OTHERS).
- D-T16 T-808 SECURITY SYSTEMS – EIGHTH FLOOR PLAN**
I. Add 'PLAN NOTES' to drawing:
PLAN NOTES:
EACH SECURITY CAMERA SHOWN ON THE PLANS SHALL HAVE (1) CAT6 NETWORK OUTLET AT EACH LOCATION (BY OTHERS).

TABLE OF CONTENTS

1. Changes to documents are indicated with asterisks by the date:

- a. ** Addendum No.2
- b. *** Addendum No.3
- c. **** Addendum No.4

VOLUME ONE

Bidding Documents:

Request for Quotations

Instructions to Bidders

Proposal Form

02/21/2011****

Purchasing Affidavit

Drug Free Workplace Affidavit

Bid Bond Preparation Instructions

Labor & Materials Bond

Performance Bond

Maintenance Bond

Certificate of Insurance - Instructions

Wage Rates

Index of Drawings

02/21/2011****

Conditions of the Contract:

Standard Form of Agreement between Owner and Contractor (AIA Document A101-2007)

General Conditions of the Contract for Construction (AIA A201-2007)

State of West Virginia Supplementary General Conditions to AIA A201-2007 Special Conditions

Contract Forms:

Change Order (AIA Document G701-2001)

Application and Certificate for Payment (AIA Document G702-1992)

Continuation Sheet (AIA Document G703-1992)

Certificate of Substantial Completion (AIA Document G704-2000)

Contractor's Affidavit of Payment of Debts and Claims (AIA Document G706-1994) Contractor's Affidavit of Release of Liens (AIA Document G706A-1994)

Consent of Surety Company to Final Payment (AIA Document G707-1994)

Consent of Surety Company to Reduction in or Partial Release of Retainage (AIA Document G707A-1994)

Proposal Request (AIA Document G709-2001)

Architect's Supplemental Instructions (AIA Document G710-1992)

Reports: (are included in the Appendix of Volume One of the Project Manual)

1. Reports prepared by Professional Services Industries, Inc. (PSI) for locations where hazardous materials are present.

- a. "Limited Asbestos, Lead Paint and Hazardous Material Survey Report, Building 3 Capitol Complex" dated September 19, 2008.
 - b. "Asbestos Material Survey Supplemental Report, Building 3 Capitol Complex – Behind Room 528B Window Unit and Hallway Ceiling Plaster" dated September 22, 2008.
2. "Geotechnical Exploration and Analysis of Proposed Loading Pavilion", WV State Capital Complex – Building 3 (DMV), Charleston, West Virginia, prepared by American Geotech, Inc., dated April 3, 2009.
 3. "Masonry Testing" Building 3, West Virginia Capitol Complex, Charleston, West Virginia prepared by Noble Preservation Services, Inc., dated October 1, 2010. Report results and summary of recommendations to clean various exterior masonry types on Building 3.

SECTION	DESCRIPTION	DATE
DIVISION 01 – GENERAL REQUIREMENTS		
011000	SUMMARY	10/08/2010
011130	SUMMARY OF WORK – ASBESTOS ABATEMENT	10/08/2010
011430	PROJECT COORDINATION – ASBESTOS ABATEMENT	10/08/2010
011910	DEFINITIONS AND STANDARDS – ASBESTOS ABATEMENT	10/08/2010
011920	CODES, REGULATIONS AND STANDARDS – ASBESTOS ABATEMENT	10/08/2010
012100	ALLOWANCES	10/08/2010
012200	UNIT PRICES	01/21/2011***
012300	ALTERNATES	10/08/2010
012600	CONTRACT MODIFICATION PROCEDURES	10/08/2010
012900	PAYMENT PROCEDURES	10/08/2010
013100	PROJECT MANAGEMENT AND COORDINATION	10/08/2010
013200	CONSTRUCTION PROGRESS DOCUMENTATION	10/08/2010
013300	SUBMITTAL PROCEDURES	10/08/2010
014000	QUALITY REQUIREMENTS	10/08/2010
014100	AIR MONITORING – ASBESTOS ABATEMENT	10/08/2010
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015000	TEMPORARY FACILITIES AND CONTROLS	10/08/2010
015030	TEMPORARY FACILITIES – ASBESTOS ABATEMENT	10/08/2010
015130	TEMPORARY NEGATIVE PRESSURE AND AIR CIRCULATION – ASBESTOS ABATEMENT	10/08/2010
015260	TEMPORARY ENCLOSURES – ASBESTOS ABATEMENT	10/08/2010
015600	WORKER PROTECTION – ASBESTOS ABATEMENT	10/08/2010
015620	RESPIRATORY PROTECTION – ASBESTOS ABATEMENT	10/08/2010
015630	DECONTAMINATION UNITS – ASBESTOS ABATEMENT	10/08/2010
015639	TEMPORARY TREE AND PLANT PROTECTION	10/08/2010
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017120	CLEANING & DECONTAMINATION PROCEDURES – ASBESTOS ABATEMENT	10/08/2010
017140	WORK AREA CLEARANCE – ASBESTOS ABATEMENT	10/08/2010
017300	EXECUTION	10/08/2010
017329	CUTTING AND PATCHING	10/08/2010
017419	CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL (INCLUDING CWM FORMS 1 THROUGH 8)	10/08/2010
017700	CLOSEOUT PROCEDURES	10/08/2010
017823	OPERATION AND MAINTENANCE DATA	10/08/2010
017839	PROJECT RECORD DOCUMENTS	10/08/2010
018113	SUSTAINABLE DESIGN REQUIREMENTS (INCLUDING LEED® PROJECT CHECKLIST)	10/08/2010

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019113	GENERAL COMMISSIONING REQUIREMENTS	10/08/2010
DIVISION 02 – EXISTING CONDITIONS		
020810	REMOVAL OF ASBESTOS CONTAINING MATERIALS	10/08/2010
020830	REMOVAL OF CLASS II ASBESTOS CONTAINING MATERIALS	10/08/2010
020840	DISPOSAL OF ASBESTOS CONTAINING WASTE MATERIALS	10/08/2010
024119	SELECTIVE STRUCTURE DEMOLITION	10/08/2010
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033000	CAST-IN-PLACE CONCRETE	10/08/2010
033100	CAST-IN-PLACE CONCRETE - CIVIL	10/08/2010
DIVISION 04 – MASONRY		
042000	UNIT MASONRY	10/08/2010
044200	STONE CLADDING	10/08/2010
044310	LANDSCAPE STONE MASONRY	12/08/2010**
045200	MAINTENANCE CLEANING AND POINTING	10/08/2010
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055100	METAL STAIRS	10/08/2010
055213	PIPE AND TUBE RAILINGS	10/08/2010
055300	METAL GRATINGS	10/08/2010
055900	GREEN WALL PANELS	10/08/2010
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064023	INTERIOR ARCHITECTURAL WOODWORK	10/08/2010
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085145	BRONZE WINDOW, DOOR, AND MISCELLANEOUS RESTORATION	12/08/2010**
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088000	GLAZING	10/08/2010
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APPENDIX – VOLUME ONE

“Limited Asbestos, Lead Paint and Hazardous Material Survey Report, Building 3 Capitol Complex”, prepared by Professional Service Industries, Inc.	10/19/2008
“Asbestos Material Survey Supplemental Report, Building 3 Capitol Complex – Behind Room 528B Window Unit and Hallway Ceiling Plaster”, prepared by Professional Service Industries, Inc.	10/22/2008
“Geotechnical Exploration and Analysis of Proposed Loading Pavilion”, WV State Capital Complex – Building 3 (DMV), Charleston, West Virginia, prepared by American Geotech, Inc.	4/3/2009
“Masonry Testing” Building 3, West Virginia Capitol Complex, Charleston, West Virginia prepared by Noble Preservation Services, Inc.	10/1/2010

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VOLUME TWO

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096600	REFINISHING TERRAZZO FLOORING	10/08/2010
096816	SHEET CARPETING	01/21/2011***
096900	ACCESS FLOORING	10/08/2010
097500	STONE FACING	10/08/2010

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099113	EXTERIOR PAINTING	10/08/2010
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102238	DEMOUNTABLE PANEL PARTITIONS	10/08/2010
102800	TOILET, BATH, AND LAUNDRY ACCESSORIES	10/08/2010
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115213	FRONT PROJECTION SCREENS	10/08/2010
115215	MOTORIZED PROJECTOR MOUNTS	10/08/2010
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220500	COMMON WORK RESULTS FOR PLUMBING	10/08/2010
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220520	INSTALLATION OF PIPES AND TUBES-PLUMBING/FIRE PROTECTION	10/08/2010
220523	GENERAL DUTY VALVES FOR PLUMBING	10/08/2010
220528	PLUMBING SOUND AND VIBRATION	10/08/2010
220529	HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT	10/08/2010
220553	IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT	10/08/2010
220700	PLUMBING INSULATION	10/08/2010
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221119	DOMESTIC WATER PIPING SPECIALTIES	10/08/2010
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221413	STORM DRAINAGE PIPING	10/08/2010
221420	WET PIPE AND DRY PIPE FIRE SPRINKLER SYSTEM	10/08/2010
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221422	FIRE PUMP SYSTEM	10/08/2010
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SECTION	DESCRIPTION	DATE
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230511	RESTORATION AND RETROFIT – HVAC	10/08/2010
230519	PIPING SPECIALTIES – HVAC	10/08/2010
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230529	HANGERS AND SUPPORTS – HVAC	10/08/2010
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230553	EQUIPMENT AND PIPING IDENTIFICATION – HVAC	10/08/2010
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230800	COMMISSIONING OF HVAC SYSTEM	10/08/2010
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230993	SEQUENCE OF OPERATION FOR HVAC CONTROLS	12/08/2010**
230995	VARIABLE FREQUENCY DRIVES	10/08/2010
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233113	DUCTWORK	10/08/2010
233300	SHEET METAL ACCESSORIES	10/08/2010
233423	EXHAUST FANS AND ROOF CURBS	10/08/2010
233600	VARIABLE VOLUME BOXES	10/08/2010
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260533	RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS	10/08/2010
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260553	IDENTIFICATION FOR ELECTRICAL SYSTEMS	10/08/2010
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262213	DRY-TYPE DISTRIBUTION TRANSFORMERS (1500 KVA AND BELOW)	10/08/2010
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262726	WIRING DEVICES	10/08/2010
262813	FUSES	10/08/2010
262816	ENCLOSED SWITCHES AND CIRCUIT BREAKERS	10/08/2010
262820	LOAD BREAK SWITCHES	10/08/2010
263213	EMERGENCY GENERATORS	10/08/2010
263214	GENERATOR LOAD BANK	10/08/2010
263215	GENERATOR UNDERGROUND FUEL TANK AND DAY TANK	12/08/2010**
263353	UNINTERRUPTIBLE POWER SUPPLY (UPS)	10/08/2010
263600	TRANSFER SWITCHES	10/08/2010
264313	TRANSIENT-VOLTAGE SUPPRESSION FOR LOW-VOLTAGE ELECTRICAL POWER CIRCUITS	10/08/2010
265100	INTERIOR LIGHTING	10/08/2010
265600	EXTERIOR LIGHTING	10/08/2010
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281300	ACCESS CONTROL SYSTEM	10/08/2010
283100	FIRE ALARM SYSTEM	10/08/2010
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312000	EARTHMOVING	10/08/2010
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329300	PLANTS	10/08/2010
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333000	SANITARY SEWERAGE	10/08/2010
334000	STORM DRAINAGE	10/08/2010
334500	STORM UTILITY DRAINAGE PUMPS	10/08/2010
334510	GRAYWATER PUMP SYSTEM	10/08/2010

END OF VOLUME TWO

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Proposal Form

State of West Virginia – General Services Division
West Virginia State Capitol
West Virginia State Office Building No. 3 Renovations
Charleston, West Virginia

Project No. GSD 106450

Name of Bidder: _____

The undersigned, hereinafter called Bidder, being familiar with and understanding the Bidding Documents and also having examined the site and being familiar with all local conditions affecting the project hereby proposes to furnish all labor, material, equipment, supplies and transportation and to perform all Work in accordance with the Bidding Documents within the time set forth for the sum of:

Base Bid:

(\$ _____)

(Show amount in both words and numbers)

(In the event of a difference between the written amount and the number amount, the written amount shall govern.)

**UNIT PRICE #1: 7TH FLOOR PARAPET DEMOLITION AND RECONSTRUCTION
(REFER TO SECTION 012200 "UNIT PRICES")**

Unit Price No. 1A:	Parapet 'pier with vertical steel' section at 7 th floor roof.	\$ _____	Per section.
Unit Price No. 1B:	Parapet 'pier without vertical steel' section at 7 th floor roof.	\$ _____	Per section.
Unit Price No. 1C:	Parapet 'picket' section at 7 th floor roof.	\$ _____	Per section.
Unit Price No. 1D:	Parapet 'corner' section at 7 th floor roof.	\$ _____	Per section.

**UNIT PRICE #2: MASONRY REPOINTING
(REFER TO SECTION 012200 "UNIT PRICES")**

Unit Price No. 2A:	Spot point masonry at exterior masonry	\$ _____	Per linear/ft.
Unit Price No. 2B:	Spot point masonry at interior marble panels.	\$ _____	Per linear/ft.

UNIT PRICE #3: REPAIR AND RESTORE EXISTING BRONZE WINDOWS
(REFER TO SECTION 012200 "UNIT PRICES")

Unit Price No. 3	Unit Cost to Replace	
Frame	\$ _____	Per window
Sashes	\$ _____	Per window
Mullions	\$ _____	Per window
Hardware	\$ _____	Per window

UNIT PRICE #4: HAZARDOUS MATERIALS
(REFER TO SECTION 011130 "SUMMARY OF WORK - ASBESTOS ABATEMENT")

9" Black Floor Tile & Adhesive	\$ _____	Per Square Foot
Internal Boiler Components	\$ _____	Per Boiler
Sprayed Acoustical Plaster	\$ _____	Per Square Foot
Pipe Covering		
on 4 inch diameter pipe	\$ _____	Per Linear Foot
on 6 inch diameter pipe	\$ _____	Per Linear Foot
on 10 inch diameter pipe	\$ _____	Per Linear Foot
on 12 inch diameter pipe	\$ _____	Per Linear Foot
on 14 inch diameter pipe	\$ _____	Per Linear Foot
on 18 inch diameter pipe	\$ _____	Per Linear Foot
Pipe Insulation		
on 1-2 inch diameter pipe	\$ _____	Per Linear Foot
(Cardboard/Paper pipe, corrugated)		
on 4 inch diameter pipe	\$ _____	Per Linear Foot
on 6 inch diameter pipe	\$ _____	Per Linear Foot
on 10 inch diameter pipe	\$ _____	Per Linear Foot
Pipe Fittings on Pipe Covering		
6 inch diameter pipe	\$ _____	Per Fitting
8 inch diameter pipe	\$ _____	Per Fitting
10 inch diameter pipe	\$ _____	Per Fitting
12 inch diameter pipe	\$ _____	Per Fitting
Pipe Fittings on Insulation		
4 inch diameter pipe	\$ _____	Per Fitting
6 inch diameter pipe	\$ _____	Per Fitting
10 inch diameter pipe	\$ _____	Per Fitting
Exterior Duct Insulation	\$ _____	Per Square Foot
Boiler Tank Insulation	\$ _____	Per Square Foot

Asbestos Cloth	\$ _____	Per Linear Foot
Fireproofing	\$ _____	Per Square Foot
Boiler Breeching	\$ _____	Per Square Foot
Insulated wires in floor duct	\$ _____	Per Linear Foot

ALTERNATES: (REFER TO SECTION 012300 "ALTERNATES")

Alternate No. 1:	Roof Tile	\$ _____	(Add/Deduct)
Alternate No. 2:	Infill Below Typical Upper Floor Windows -- Floors 2-8.	\$ _____	(Add/Deduct)
Alternate No. 3:	Lump sum allowance to cover electric utility company charges for their reconfiguration of electrical service entrance items, duct banks switches and equipment. (Refer to Section 012100 - Allowances) Includes Contractor O&P.	\$ _____	(Add/Deduct)

Note: Unit Prices shall be used solely for the formulation of any Change Orders requested subsequent to the award of the Contract. They shall not be calculated into the Base Bid in any manner when determining award of the Contract.

State of West Virginia
General Services Division

West Virginia State Capitol
West Virginia State Office Building No. 3 Renovations
Project No. GSD 106450

The Bidder, if successful and awarded the contract, agrees that all work is to be complete within the specified time period following issuance of the OWNER'S written notice to proceed. For each calendar day of delay in achieving Substantial completion, the Contractor shall be liable for, and shall pay the OWNER liquidated damages in the amount specified in the Contract Documents.

No work shall be performed prior to issuance of a signed Purchase Order issued by the State Purchasing Division and Notice to Proceed issued by the Owner. Any materials contracted for prior to the issuance of the OWNER'S written Notice to Proceed shall be at the Bidder's risk.

Signature of Bidder:

Name of Firm: _____

Address: _____

City/ State/ Zip _____

Phone No. () _____

Fax No. () _____

By: _____

Signature: _____

(In colored Ink)

Signed and Sealed this _____ day of _____, 20____

Addenda:

The undersigned acknowledges receipt of the following Addenda covering revisions to the Drawings, Specification and Bidding Documents. The cost, if any, of such revisions is included in the prices quoted.

- Addendum No. _____, Dated _____
- Addendum No. _____, Dated _____
- Addendum No. _____, Dated _____
- Addendum No. _____, Dated _____
- Addendum No. _____, Dated _____
- Addendum No. _____, Dated _____

Contractor's License:

West Virginia Contractor's License No. _____

References:

Reference No 1:

Reference Name: _____

Position: _____

Address: _____

Telephone Number: _____

Project Name & Owner: _____

Project Location: _____

Project Description: _____

Reference No 2:

Reference Name: _____

Position: _____

Address: _____

Telephone Number: _____

Project Name & Owner: _____

Project Location: _____

Project Description: _____

Reference No 3:

Reference Name: _____

Position: _____

Address: _____

Telephone Number: _____

Project Name & Owner: _____

Project Location: _____

Project Description: _____

INDEX OF DRAWINGS

1. The following two hundred eighty-five (285) drawings and seventy (70) sketches for clarification accompany this specification and are hereby made a part thereof.
2. Changes to drawings are indicated with asterisks by the date:
 - a. ** Addendum No.2
 - b. *** Addendum No.3
 - c. **** Addendum No.4

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VOLUME 1		
GENERAL		
G-0V1	10/08/2010	COVER SHEET – VOLUME 1
G-002	<u>12/08/2010**</u>	GENERAL NOTES
G-003	10/08/2010	CODE SUMMARY
G-004	10/08/2010	CODE SUMMARY
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CD-001	<u>01/21/2011***</u>	SITE DEMOLITION PLAN
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C-004	<u>01/21/2011***</u>	SITE GRADING PLAN
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C-006	<u>01/21/2011***</u>	CONSTRUCTION DETAILS
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L-502	<u>12/08/2010**</u>	LANDSCAPE DETAILS
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AB-101	10/08/2010	ABATEMENT FLOOR PLANS – FOURTH THRU
02/21/2011		

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AD-102	10/08/2010	SECOND FLOOR DEMOLITION PLAN
AD-103	10/08/2010	THIRD FLOOR DEMOLITION PLAN
AD-104	10/08/2010	FOURTH FLOOR DEMOLITION PLAN
AD-105	10/08/2010	FIFTH FLOOR DEMOLITION PLAN
AD-106	10/08/2010	SIXTH FLOOR DEMOLITION PLAN
AD-107	10/08/2010	SEVENTH FLOOR DEMOLITION PLAN
AD-108	10/08/2010	EIGHTH FLOOR DEMOLITION PLAN
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AD-202	10/08/2010	NORTH DEMOLITION ELEVATION
AD-203	10/08/2010	WEST & EAST DEMOLITION ELEVATIONS
AD-501	10/08/2010	ENLARGED CORE FLOOR PLANS & PROTECTION DETAILS
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A-102	10/08/2010	SECOND FLOOR PLAN
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A-105	10/08/2010	FIFTH FLOOR PLAN
A-106	10/08/2010	SIXTH FLOOR PLAN
A-107	10/08/2010	SEVENTH FLOOR PLAN
A-108	10/08/2010	EIGHTH FLOOR PLAN
A-109	10/08/2010	MACHINE ROOM FLOOR PLAN
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DRAWING NO.	DATE	TITLE
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A-203	10/08/2010	EAST & WEST ELEVATIONS
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A-302	10/08/2010	BUILDING & STAIR SECTIONS
A-303	10/08/2010	SECTIONS
A-304	10/08/2010	LOADING PAVILION BUILDING SECTIONS
A-305	10/08/2010	LOADING PAVILION WALL SECTIONS
A-306	10/08/2010	LOADING PAVILION WALL SECTIONS
A-401	10/08/2010	ENLARGED FIRST FLOOR PLAN
A-402	10/08/2010	FIRST FLOOR LOBBY ELEVATIONS
A-403	10/08/2010	ENLARGED TYPICAL CORE PLAN & ELEVATIONS (FLRS 2-8)
A-404	10/08/2010	ENLARGED RESTROOM PLANS & ELEVATIONS
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A-406	10/08/2010	ENLARGED RESTROOM PLANS & ELEVATIONS
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A-408	10/08/2010	INTERIOR ELEVATIONS
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A-502	10/08/2010	EXTERIOR DETAILS
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A-504	10/08/2010	EXTERIOR DETAILS
A-505	10/08/2010	EXTERIOR DETAILS
A-506	10/08/2010	EXTERIOR DETAILS
A-507	10/08/2010	INTERIOR DETAILS
A-508	10/08/2010	INTERIOR DETAILS
A-509	10/08/2010	INTERIOR DETAILS
A-510	10/08/2010	INTERIOR DETAILS
A-511	10/08/2010	INTERIOR DETAILS
A-512	10/08/2010	INTERIOR DETAILS
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A-602	10/08/2010	FINISH SCHEDULE
A-603	10/08/2010	DOOR & WINDOWS TYPES
A-604	10/08/2010	DOOR SCHEDULE
A-605	10/08/2010	DOOR SCHEDULE & DOOR DETAILS
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SK-04	<u>12/08/2010</u> **	BASEMENT FLOOR PLAN
SK-05	<u>12/08/2010</u> **	BASEMENT FLOOR PLAN
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SK-07	<u>12/08/2010</u> **	FIRST FLOOR PLAN
SK-08	<u>12/08/2010</u> **	TYPICAL CORRIDOR
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SK-18	<u>12/08/2010</u> **	EXTERIOR DETAILS
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SK-21	<u>01/21/2011</u> ***	INTERIOR DETAILS
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SK-23b	<u>02/21/2011</u> ****	ACOUSTIC FABRIC WALL PANEL
SK-23c	<u>02/21/2011</u> ****	ACOUSTIC FABRIC WALL PANEL
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VOLUME 2

GENERAL

G-0V2 10/08/2010 COVER SHEET - VOLUME 2

FIRE PROTECTION

F-001 12/08/2010** FIRE PROTECTION LEGEND, SYMBOLS, NOTES, & ABBREVIATIONS

DRAWING NO.	DATE	TITLE
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F-101	<u>12/08/2010</u> **	FIRST FLOOR PLAN – FIRE PROTECTION
F-102	<u>12/08/2010</u> **	SECOND FLOOR PLAN – FIRE PROTECTION
F-103	<u>12/08/2010</u> **	THIRD FLOOR PLAN – FIRE PROTECTION
F-104	<u>12/08/2010</u> **	FOURTH FLOOR PLAN – FIRE PROTECTION
F-105	10/08/2010	FIFTH FLOOR PLAN – FIRE PROTECTION
F-106	10/08/2010	SIXTH FLOOR PLAN – FIRE PROTECTION
F-107	10/08/2010	SEVENTH FLOOR PLAN – FIRE PROTECTION
F-108	10/08/2010	EIGHTH FLOOR PLAN – FIRE PROTECTION
F-109	10/08/2010	ATTIC FLOOR PLAN – FIRE PROTECTION
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P-100	<u>02/21/2011</u> ****	BASEMENT FLOOR PLAN – PLUMBING
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P-102	10/08/2010	SECOND FLOOR PLAN – PLUMBING
P-103	10/08/2010	THIRD FLOOR PLAN – PLUMBING
P-104	10/08/2010	FOURTH FLOOR PLAN – PLUMBING
P-105	10/08/2010	FIFTH FLOOR PLAN – PLUMBING
P-106	10/08/2010	SIXTH FLOOR PLAN – PLUMBING
P-107	10/08/2010	SEVENTH FLOOR PLAN – PLUMBING
P-108	10/08/2010	EIGHTH FLOOR PLAN – PLUMBING
P-109	<u>12/08/2010</u> **	PENTHOUSE PLAN – PLUMBING
P-110	10/08/2010	ROOF PLAN – PLUMBING
P-300	10/08/2010	DOMESTIC WATER RISER DIAGRAM
P-401	10/08/2010	ENLARGED MECHANICAL ROOM FLOOR PLANS – PLUMBING
P-402	<u>12/08/2010</u> **	ENLARGED TOILET ROOM PLANS – PLUMBING
P-403	<u>12/08/2010</u> **	ENLARGED TOILET ROOM PLANS – PLUMBING
P-500	10/08/2010	PLUMBING DETAILS
P-600	<u>12/08/2010</u> **	PLUMBING SCHEDULES
MECHANICAL		
M-001	10/08/2010	HVAC ABBREVIATIONS AND NOTES
M-100	<u>12/08/2010</u> **	BASEMENT HVAC PLAN
M-101	<u>12/08/2010</u> **	FIRST FLOOR HVAC PLAN
M-102	10/08/2010	SECOND FLOOR HVAC PLAN
M-103	10/08/2010	THIRD FLOOR HVAC PLAN
M-104	10/08/2010	FOURTH FLOOR HVAC PLAN
M-105	10/08/2010	FIFTH FLOOR HVAC PLAN

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M-106	10/08/2010	SIXTH FLOOR HVAC PLAN
M-107	<u>12/08/2010</u> **	SEVENTH FLOOR HVAC PLAN
M-108	<u>12/08/2010</u> **	EIGHTH FLOOR HVAC PLAN
M-109	<u>12/08/2010</u> **	MACHINE ROOM HVAC PLAN
M-110	10/08/2010	ROOF HVAC PLAN
M-200	<u>12/08/2010</u> **	BASEMENT HVAC PLAN – PIPING
M-201	<u>12/08/2010</u> **	FIRST FLOOR HVAC PLAN – PIPING
M-202	<u>12/08/2010</u> **	SECOND FLOOR HVAC PLAN – PIPING
M-203	<u>12/08/2010</u> **	THIRD FLOOR HVAC PLAN – PIPING
M-204	<u>12/08/2010</u> **	FOURTH FLOOR HVAC PLAN – PIPING
M-205	<u>12/08/2010</u> **	FIFTH FLOOR HVAC PLAN – PIPING
M-206	<u>12/08/2010</u> **	SIXTH FLOOR HVAC PLAN – PIPING
M-207	<u>12/08/2010</u> **	SEVENTH FLOOR HVAC PLAN – PIPING
M-208	<u>12/08/2010</u> **	EIGHTH FLOOR HVAC PLAN – PIPING
M-209	<u>12/08/2010</u> **	MACHINE ROOM HVAC PLAN – PIPING
M-301	<u>12/08/2010</u> **	ENLARGED HVAC PLANS
M-302	<u>12/08/2010</u> **	ENLARGED HVAC PLANS
M-303	10/08/2010	ENLARGED HVAC PLANS
M-501	10/08/2010	HVAC DETAILS
M-502	10/08/2010	HVAC DETAILS
M-503	10/08/2010	HVAC DETAILS
M-504	10/08/2010	HVAC DETAILS
M-505	10/08/2010	HVAC DETAILS
M-601	10/08/2010	HOT WATER FLOW DIAGRAM
M-602	10/08/2010	CHILLED WATER FLOW DIAGRAM
M-701	10/08/2010	HVAC SCHEDULES
M-702	10/08/2010	HVAC SCHEDULES
M-703	10/08/2010	HVAC SCHEDULES
M-704	10/08/2010	HVAC SCHEDULES
<u>MECHANICAL CLARIFICATION SKETCHES</u>		
SKM-01	<u>12/08/2010</u> **	FIRE DAMPERS
SKM-02	<u>12/08/2010</u> **	FIRE DAMPERS
SKM-03	<u>12/08/2010</u> **	FIRE DAMPERS
SKM-04	<u>12/08/2010</u> **	FIRE DAMPERS
SKM-05	<u>12/08/2010</u> **	FIRE DAMPERS
SKM-06	<u>12/08/2010</u> **	TRAP DETAIL
SKM-07	<u>12/08/2010</u> **	PARTIAL CHILLED WATER FLOW DIAGRAM
ELECTRICAL		
E-001	10/08/2010	ELECTRICAL COVER SHEET
ES-001	<u>002/21/2011</u> ****	SITE PLAN
ES-002	<u>002/21/2011</u> ****	SITE PLAN DETAILS (SHEET ADDED)
EL-100	<u>01/21/2011</u> ***	BASEMENT FLOOR PLAN – LIGHTING
EL-101	<u>01/21/2011</u> ***	FIRST FLOOR PLAN – LIGHTING

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EL-102	10/08/2010	SECOND FLOOR PLAN - LIGHTING
EL-103	10/08/2010	THIRD FLOOR PLAN - LIGHTING
EL-104	10/08/2010	FOURTH FLOOR PLAN - LIGHTING
EL-105	10/08/2010	FIFTH FLOOR PLAN - LIGHTING
EL-106	10/08/2010	SIXTH FLOOR PLAN - LIGHTING
EL-107	10/08/2010	SEVENTH FLOOR PLAN - LIGHTING
EL-108	10/08/2010	EIGHTH FLOOR PLAN - LIGHTING
EL-109	<u>01/21/2011</u> ***	PENTHOUSE PLAN - LIGHTING
EP-100	<u>01/21/2011</u> ***	BASEMENT FLOOR PLAN - POWER & SYSTEMS
EP-101	<u>002/21/2011</u> ****	FIRST FLOOR PLAN - POWER & SYSTEMS
EP-102	<u>12/08/2010</u> **	SECOND FLOOR PLAN - POWER & SYSTEMS
EP-103	<u>12/08/2010</u> **	THIRD FLOOR PLAN - POWER & SYSTEMS
EP-104	<u>12/08/2010</u> **	FOURTH FLOOR PLAN - POWER & SYSTEMS
EP-105	<u>12/08/2010</u> **	FIFTH FLOOR PLAN - POWER & SYSTEMS
EP-106	<u>12/08/2010</u> **	SIXTH FLOOR PLAN - POWER & SYSTEMS
EP-107	<u>12/08/2010</u> **	SEVENTH FLOOR PLAN - POWER & SYSTEMS
EP-108	<u>12/08/2010</u> **	EIGHTH FLOOR PLAN - POWER & SYSTEMS
EP-109	10/08/2010	PENTHOUSE PLAN - POWER & SYSTEMS
EP-110	<u>12/08/2010</u> **	CABLE TRAY LAYOUT (ADDED SHEET)
EM-100	10/08/2010	BASEMENT FLOOR PLAN - MECHANICAL POWER
EM-101	10/08/2010	FIRST FLOOR PLAN - MECHANICAL POWER
EM-102	10/08/2010	SECOND FLOOR PLAN - MECHANICAL POWER
EM-103	10/08/2010	THIRD FLOOR PLAN - MECHANICAL POWER
EM-104	10/08/2010	FOURTH FLOOR PLAN - MECHANICAL POWER
EM-105	10/08/2010	FIFTH FLOOR PLAN - MECHANICAL POWER
EM-106	10/08/2010	SIXTH FLOOR PLAN - MECHANICAL POWER
EM-107	10/08/2010	SEVENTH FLOOR PLAN - MECHANICAL POWER
EM-108	10/08/2010	EIGHTH FLOOR PLAN - MECHANICAL POWER
EM-109	10/08/2010	PENTHOUSE PLAN - MECHANICAL POWER
E-500	10/08/2010	DETAILS I
E-501	10/08/2010	DETAILS II
E-502	10/08/2010	DETAILS III
E-503	10/08/2010	DETAILS IV
E-504	<u>002/21/2011</u> ****	DETAILS V
E-600	<u>01/21/2011</u> ***	SINGLE LINE RISER DIAGRAM POWER DISTRIBUTION SYSTEM
E-601	<u>01/21/2011</u> ***	RISER DIAGRAM II
E-602	10/08/2010	FIRE ALARM RISER DIAGRAM
E-700	<u>002/21/2011</u> ****	FIXTURE SCHEDULE
E-701	<u>12/08/2010</u> **	PANEL SCHEDULES
E-702	<u>12/08/2010</u> **	PANEL SCHEDULES
E-703	<u>12/08/2010</u> **	PANEL SCHEDULES
E-704	<u>12/08/2010</u> **	PANEL SCHEDULES
E-705	<u>12/08/2010</u> **	PANEL SCHEDULES
E-706	10/08/2010	PANEL SCHEDULES
E-707	<u>12/08/2010</u> **	PANEL SCHEDULES
E-708	<u>12/08/2010</u> **	PANEL SCHEDULES

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E-709	10/08/2010	PANEL SCHEDULES
E-710	<u>12/08/2010</u> **	PANEL SCHEDULES
E-711	<u>12/08/2010</u> **	PANEL SCHEDULES
E-712	<u>12/08/2010</u> **	PANEL SCHEDULES
E-713	<u>12/08/2010</u> **	PANEL SCHEDULES
E-900	10/08/2010	ENLARGED TYPICAL ELECTRICAL ROOM – LOWER LEVEL
E-901	<u>12/08/2010</u> **	ENLARGED TYPICAL ELECTRICAL ROOM – UPPER LEVEL

ELECTRICAL CLARIFICATION SKETCHES

SKE-001a	<u>12/08/2010</u> **	ELECTRICAL COVER SHEET
SKE-001b	<u>02/21/2011</u> ****	ELECTRICAL COVER SHEET
SKE-601	<u>02/21/2011</u> ****	RISER DIAGRAM II
SKEL-100a	<u>12/08/2010</u> **	BASEMENT FLOOR PLAN – LIGHTING
SKEL-101a	<u>02/21/2011</u> ****	FIRST FLOOR PLAN – LIGHTING
SKEL-102a	<u>12/08/2010</u> **	SECOND FLOOR PLAN - LIGHTING
SKEL-102b	<u>01/21/2011</u> ***	SECOND FLOOR PLAN - LIGHTING
SKEL-103a	<u>12/08/2010</u> **	THIRD FLOOR PLAN - LIGHTING
SKEL-103b	<u>02/21/2011</u> ****	THIRD FLOOR PLAN - LIGHTING
SKEL-104	<u>01/21/2011</u> ***	FOURTH FLOOR PLAN - LIGHTING
SKEL-104a	<u>02/21/2011</u> ****	FOURTH FLOOR PLAN - LIGHTING
SKEL-105	<u>01/21/2011</u> ***	FIFTH FLOOR PLAN - LIGHTING
SKEL-105a	<u>02/21/2011</u> ****	FIFTH FLOOR PLAN - LIGHTING
SKEL-106	<u>01/21/2011</u> ***	SIXTH FLOOR PLAN - LIGHTING
SKEL-106a	<u>02/21/2011</u> ****	SIXTH FLOOR PLAN - LIGHTING
SKEL-107	<u>01/21/2011</u> ***	SEVENTH FLOOR PLAN - LIGHTING
SKEL-107a	<u>02/21/2011</u> ****	SEVENTH FLOOR PLAN - LIGHTING
SKEL-108	<u>01/21/2011</u> ***	EIGHTH FLOOR PLAN - LIGHTING
SKEL-108a	<u>02/21/2011</u> ****	EIGHTH FLOOR PLAN - LIGHTING
SKEM-100	<u>12/08/2010</u> **	BASEMENT FLOOR PLAN – MECHANICAL POWER
SKEM-101	<u>12/08/2010</u> **	FIRST FLOOR PLAN – MECHANICAL POWER
SKEM-109	<u>12/08/2010</u> **	PENTHOUSE PLAN – MECHANICAL POWER
SKEM-109a	<u>12/08/2010</u> **	PENTHOUSE PLAN – POWER & SYSTEMS
SKEP-100	<u>02/21/2011</u> ****	BASEMENT FLOOR PLAN – POWER & SYSTEMS
SKEP-101	<u>01/21/2011</u> ***	FIRST FLOOR PLAN – POWER & SYSTEMS
SKEP-102a	<u>02/21/2011</u> ****	SECOND FLOOR PLAN – POWER & SYSTEMS
SKEP-103	<u>02/21/2011</u> ****	THIRD FLOOR PLAN – POWER & SYSTEMS
SKEP-104	<u>02/21/2011</u> ****	FOURTH FLOOR PLAN – POWER & SYSTEMS
SKEP-105	<u>02/21/2011</u> ****	FIFTH FLOOR PLAN – POWER & SYSTEMS
SKEP-106	<u>01/21/2011</u> ***	SIXTH FLOOR PLAN – POWER & SYSTEMS
SKEP-106a	<u>02/21/2011</u> ****	SIXTH FLOOR PLAN – POWER & SYSTEMS
SKEP-107	<u>02/21/2011</u> ****	SEVENTH FLOOR PLAN – POWER & SYSTEMS
SKEP-108	<u>02/21/2011</u> ****	EIGHTH FLOOR PLAN – POWER & SYSTEMS
SKEP-109b	<u>02/21/2011</u> ****	PENTHOUSE FLOOR PLAN – POWER & SYSTEMS
SKEP-110	<u>02/21/2011</u> ****	CABLE TRAY LAYOUT

TECHNOLOGY & SECURITY

T-001	10/08/2010	TECHNOLOGY SYMBOLS AND LEGENDS
T-002	<u>02/21/2011</u> ****	TECHNOLOGY SYMBOLS AND LEGENDS
T-003	<u>12/08/2010</u> **	TECHNOLOGY SYMBOLS AND NOTES

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T-101	10/08/2010	TECHNOLOGY INFRASTRUCTURE - FIRST FLOOR PLAN
T-102	10/08/2010	TECHNOLOGY INFRASTRUCTURE - SECOND FLOOR PLAN
T-108	10/08/2010	TECHNOLOGY INFRASTRUCTURE - EIGHTH FLOOR PLAN
T-201	<u>12/08/2010</u> **	TECHNOLOGY INFRASTRUCTURE - FIRST FLOOR CEILING PLAN
T-202	10/08/2010	TECHNOLOGY INFRASTRUCTURE - SECOND FLOOR CEILING PLAN
T-208	10/08/2010	TECHNOLOGY INFRASTRUCTURE - EIGHTH FLOOR CEILING
T-401	10/08/2010	TECHNOLOGY INFRASTRUCTURE - PARTIAL PLANS
T-501	10/08/2010	TECHNOLOGY INFRASTRUCTURE - DETAILS
T-502	10/08/2010	TECHNOLOGY INFRASTRUCTURE - DETAILS
T-503	<u>12/08/2010</u> **	TECHNOLOGY INFRASTRUCTURE - DETAILS
T-601	10/08/2010	TECHNOLOGY INFRASTRUCTURE - RISER DIAGRAMS
T-602	10/08/2010	TECHNOLOGY INFRASTRUCTURE - RISER DIAGRAMS
T-603	10/08/2010	TECHNOLOGY INFRASTRUCTURE - RISER DIAGRAMS
T-604	10/08/2010	TECHNOLOGY INFRASTRUCTURE - RISER DIAGRAMS
T-605	10/08/2010	TECHNOLOGY INFRASTRUCTURE - RISER DIAGRAMS
T-606	10/08/2010	TECHNOLOGY INFRASTRUCTURE - RISER DIAGRAMS
T-607	10/08/2010	TECHNOLOGY INFRASTRUCTURE - RISER DIAGRAMS
T-608	10/08/2010	TECHNOLOGY INFRASTRUCTURE - RISER DIAGRAMS
T-609	10/08/2010	TECHNOLOGY INFRASTRUCTURE - RISER DIAGRAMS
T-700	<u>12/08/2010</u> **	AUDIOVISUAL ROOM ELEVATIONS
T-701	<u>12/08/2010</u> **	AUDIOVISUAL ROOM ELEVATIONS
T-702	10/08/2010	AUDIOVISUAL ROOM ELEVATIONS
T-800	<u>02/21/2011</u> ****	SECURITY SYSTEMS - BASEMENT PLAN
T-801	<u>02/21/2011</u> ****	SECURITY SYSTEMS - FIRST FLOOR PLAN
T-802	<u>02/21/2011</u> ****	SECURITY SYSTEMS - SECOND FLOOR PLAN
T-803	<u>02/21/2011</u> ****	SECURITY SYSTEMS - THIRD FLOOR PLAN
T-804	<u>02/21/2011</u> ****	SECURITY SYSTEMS - FOURTH FLOOR PLAN
T-805	<u>02/21/2011</u> ****	SECURITY SYSTEMS - FIFTH FLOOR PLAN
T-806	<u>02/21/2011</u> ****	SECURITY SYSTEMS - SIXTH FLOOR PLAN
T-807	<u>02/21/2011</u> ****	SECURITY SYSTEMS - SEVENTH FLOOR PLAN
T-808	<u>02/21/2011</u> ****	SECURITY SYSTEMS - EIGHTH FLOOR PLAN
T-809	10/08/2010	SECURITY SYSTEMS - NINTH FLOOR PLAN
T-810	10/08/2010	SECURITY SYSTEMS - ROOF PLAN
T-811	10/08/2010	SECURITY SYSTEMS - DETAILS
T-812	10/08/2010	SECURITY SYSTEMS - DETAILS
T-813	10/08/2010	SECURITY SYSTEMS - DETAILS
T-814	10/08/2010	SECURITY SYSTEMS - DETAILS
T-815	10/08/2010	SECURITY SYSTEMS - DETAILS
T-816	10/08/2010	SECURITY SYSTEMS - DETAILS

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T-817	10/08/2010	SECURITY SYSTEMS - SECURITY DOOR MATRIX
T-818	10/08/2010	SECURITY SYSEMS - SECURITY DOOR MATRIX
T-819	<u>12/08/2010</u> **	SECURITY SYSTEMS - SECURITY CAMERA DETAILS & MATRIX

SECTION 012200 - UNIT PRICES

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 administrative and procedural requirements for unit prices.
- B. Related Sections:
 - 1. Division 01 Section "Contract Modification Procedures" for procedures for submitting and handling Change Orders.

1.3 DEFINITIONS

- A. Unit price is an amount incorporated in the Agreement, applicable during the duration of the Work as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, added to or deducted from the Contract Sum by appropriate modification, if the scope of Work or estimated quantities of Work required by the Contract Documents are increased or decreased.

1.4 PROCEDURES

- A. Unit prices include all necessary material, plus cost for delivery, installation, insurance, applicable taxes, overhead, and profit.
- B. Measurement and Payment: Refer to individual Specification Sections for work that requires establishment of unit prices. Methods of measurement and payment for unit prices are specified in those Sections.
- C. Owner reserves the right to reject Contractor's measurement of work-in-place that involves use of established unit prices and to have this work measured, at Owner's expense, by an independent surveyor acceptable to Contractor.
- D. List of Unit Prices: A schedule of unit prices is included in Part 3. Specification Sections referenced in the schedule contain requirements for materials described under each unit price.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

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3.1 SCHEDULE OF UNIT PRICES

Unit Price 1A, 1B, 1C and 1D: 7th Floor Parapet demolition and reconstruction.

A.

7 th FLOOR PARAPET BALUSTRADE		
Description	No. of units to be replaced in the Base Bid	Unit Cost to Add/Deduct
1A – Masonry piers (@ column locations)	14	
1B – Masonry piers (non column locations)	10	
1C – Masonry pickets between masonry piers.	26	
1D – Masonry corners @ parapet.	4	

1. Description: Conduct exploratory demolition of 7th floor parapet at 4 typical conditions, as shown on A-201.
2. Inspect and report on the construction, connections and physical condition of the following materials for all Unit Prices, unless otherwise noted:
 - a. Masonry (limestone & brick), mortar & concrete.
 - b. Vertical steel angles, columns, (only at Unit Price 1A & 1D) beams and miscellaneous steel pins and anchors.
 - c. Flashing material.
 - d. Provide an investigation and remediation report that describes:
 - 1) the general condition of the balustrade parapet pier
 - 2) identify masonry units that would be extracted to identify the cause(s) of deterioration
 - 3) review original masonry attachment detailing and physical condition of all materials
 - 4) recommend possible repair/remediation scope of work options
3. Demolition Scope of Work for all Unit Prices, unless otherwise noted:
 - a. Remove existing limestone units (top & bottom rail, pickets, veneer), brick veneer and roof membrane and substrate, as necessary, at the designated pier location as shown on the drawings.
 - b. Unit Price 1A & 1D only: Remove these materials to expose the vertical steel angles and steel connections to the steel beams and column below, as shown on the drawings.
 - c. Salvage all limestone units for reinstallation.
 - d. Salvage all whole brick on pallets and cover with 6 mil polyethylene sheeting and store in onsite location designated by Owner.
 - e. Remove all broken brick, waste and debris from the work area. Clean work area, roof and surrounding roof drains from dust and debris.
 - f. After removal of limestone and brick components, stabilize surrounding stone units and provide watertight membrane for the exposed work area to maintain (1) one calendar year. Provide safety barricades per OSHA regulations.

4. Reconstruction Scope of Work for all Unit Prices, unless otherwise noted.

a. Refer to details 1 thru 8 on sheet A-505.

B. Unit Price 2A: Exterior Masonry repointing.

1. Description: Granite, limestone, greenstone and brick repointing according to Division 040120 Section "Maintenance of Unit Masonry and Stone Assemblies".
2. Unit of Measurement: Linear foot.
3. Percentage of units to be replaced in the Base Bid:
 - a. 100% of Building 3 granite base, including existing east granite steps.
 - b. 10% of limestone and greenstone above granite base to 7th floor elevation.
 - c. 100% of limestone balustrade (outer and inner side) from the 7th floor elevation and up to the stone coping, excluding the areas/quantities of parapet demolition and reconstruction outlined in Section 012200 "Unit Prices", paragraph 3.1.A.
 - d. 100% of brick balustrade piers (inner face) from the 7th floor elevation and up to the stone coping, excluding the areas/quantities of parapet demolition and reconstruction outlined in Section 012200 "Unit Prices", paragraph 3.1.A.
 - e. 100% limestone and brick above 7th floor roof to top of acroteria stones adjacent to the copper gutter, excluding the southwest area/corner of Bldg 3 per west elevation drawing 2/A-203.

C. Unit Price 2B: Interior Marble repointing.

1. Description: Spot point interior marble panels to match existing.
2. Unit of Measurement: Linear foot.
3. Percentage of units to be replaced in the Base Bid:
 - a. 50% of Building 3 interior marble wall panels.

D. Unit Price 3: Repair and restore existing bronze windows.

REPAIR AND RESTORE EXISTING BRONZE WINDOWS				
Unit Description	% of units to be repaired in the Base Bid	Unit Cost to Repair	% of units to be replaced in the Base Bid	Unit Cost to Replace
Frame	95%	\$ _____	5%	\$ _____
Sashes	90%	\$ _____	10%	\$ _____
Mullions	90%	\$ _____	10%	\$ _____
Hardware	75%	\$ _____	25%	\$ _____
Reglazing	N/A	N/A	100%	N/A
Repainting (Restore) & Re-coating of all surfaces	100%	N/A	N/A	N/A

1. Description: Refer to Division 08 Section "Bronze Window, Door and Miscellaneous Restoration" for a detailed description of the work.
2. Unit of Measurement: Refer to chart 3.1.C "REPAIR AND RESTORE EXISTING BRONZE WINDOWS" for unit description.

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3. Percentage of units to be **repaired and replaced** in the Base Bid: Refer to chart 3.1.C “REPAIR AND RESTORE EXISTING BRONZE WINDOWS” for percentages.

E. Unit Price 4: Hazardous Materials.

HAZARDOUS MATERIALS		
Unit Description	Unit of Measure	Unit Cost to Add/Deduct
9" Black Floor Tile & Adhesive	Square Foot	\$
Internal Boiler Components	Per Boiler	\$
Sprayed Acoustical Plaster	Square Foot	\$
Pipe Covering	4 inch dia. per Linear Foot	\$
	6 inch dia. per Linear Foot	\$
	10 inch dia. per Linear Foot	\$
	12 inch dia. per Linear Foot	\$
	14 inch dia. per Linear Foot	\$
	18 inch dia. per Linear Foot	\$
Pipe Insulation (Cardboard/Paper pipe, corrugated)	1-2 inch dia. per Linear Foot	\$
	4 inch dia. per Linear Foot	\$
	6 inch dia. per Linear Foot	\$
	10 inch dia. per Linear Foot	\$
Pipe Fittings on Pipe Covering	6 inch dia.	\$
	8 inch dia.	\$
	10 inch dia.	\$
	12 inch dia.	\$
Pipe Fittings on Insulation	4 inch dia.	\$
	6 inch dia.	\$
	10 inch dia.	\$
Exterior Duct Insulation	Square Foot	\$
Boiler Tank Insulation	Square Foot	\$
Asbestos Cloth	Linear Foot	\$
Fireproofing	Square Foot	\$
Boiler Breeching	Square Foot	\$
Insulated wires in floor duct system	Linear Foot	\$

1. Description: Refer to Division 01 Section “Summary of Work – Asbestos Abatement” for a detailed description of the work.

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2. Unit of Measurement: Refer to chart 3.1.E "HAZARDOUS MATERIAL" for unit description.

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SECTION 095113 - 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. This Section includes acoustical panels and exposed suspension systems for ceilings.

1.3 DEFINITIONS

- A. AC: Articulation Class.
- B. CAC: Ceiling Attenuation Class.
- C. LR: Light Reflectance coefficient.
- D. NRC: Noise Reduction Coefficient.

1.4 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Coordination Drawings: Reflected ceiling plans, drawn to scale, on which the following items are shown and coordinated with each other, based on input from installers of the items involved:
 - 1. Ceiling suspension system members.
 - 2. Method of attaching hangers to building structure.
 - a. Furnish layouts for cast-in-place anchors, clips, and other ceiling attachment devices whose installation is specified in other Sections.
 - 3. Ceiling-mounted items including lighting fixtures, diffusers, grilles, speakers, sprinklers, access panels, and special moldings.
 - 4. Minimum Drawing Scale: 1/8 inch = 1 foot
- C. Samples for Initial Selection: For components with factory-applied color finishes.
- D. LEED Submittals:
 - 1. Product Data for Credit MR 4.1 and MR 4.2: For products having recycled content, documentation indicating percentages by weight of postconsumer and preconsumer recycled content.

- a. Include statement indicating costs for each product having recycled content.
- 2. Product Data for Credit EQ 4.1: For sealants, including printed statement of VOC content.
- E. Qualification Data: For testing agency.
- F. Field quality-control test reports.

1.5 QUALITY ASSURANCE

- A. Acoustical Testing Agency Qualifications: An independent testing laboratory, or an NVLAP-accredited laboratory, with the experience and capability to conduct the testing indicated. NVLAP-accredited laboratories must document accreditation, based on a "Certificate of Accreditation" and a "Scope of Accreditation" listing the test methods specified.
- B. Source Limitations:
 - 1. Acoustical Ceiling Panel: Obtain each type through one source from a single manufacturer.
 - 2. Suspension System: Obtain each type through one source from a single manufacturer.
- C. Source Limitations: Obtain each type of acoustical ceiling panel and supporting suspension system through one source from a single manufacturer.
 - 1. Surface-Burning Characteristics: Provide acoustical panels with the following surface-burning characteristics complying with ASTM E 1264 for Class A materials as determined by testing identical products per ASTM E 84:
- D. Mockups: Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 - 1. Refer to Division 1 Section "Quality Requirements" for mockup locations.
 - 2. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.6 PROJECT 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.

1.7 COORDINATION

- A. Coordinate layout and installation of acoustical panels and suspension system with other construction that penetrates ceilings or is supported by them, including light fixtures, HVAC equipment, fire-suppression system, and partition assemblies.

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- B. Office Floors 2 through 8: Contractors to coordinate location of light fixtures, HVAC diffusers, fire-suppression sprinkler heads with the Owner's approved tenant layout plan for each floor. General contractor to provide the Architect and/or Engineer shop drawings for review and approval prior to the installation of the ceiling systems.

1.8 EXTRA MATERIALS

- A. Furnish extra materials described below 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 3.0 percent of quantity installed.
 2. Suspension System Components: Quantity of each exposed component equal to 2.0 percent of quantity installed.
 3. Hold-Down Clips: Equal to 2.0 percent of quantity installed.

PART 2 - PRODUCTS

2.1 ACOUSTICAL PANELS, GENERAL

- A. Recycled Content: Provide acoustical panels with recycled content such that postconsumer recycled content plus one-half of preconsumer recycled content constitutes a minimum of 40 percent by weight.
- B. 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 per ASTM E 795.
- C. 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.
- D. Broad Spectrum Antimicrobial Fungicide and Bactericide Treatment: Provide acoustical panels treated with manufacturer's standard antimicrobial formulation that inhibits fungus, mold, mildew, and gram-positive and gram-negative bacteria and showing no mold, mildew, or bacterial growth when tested according to ASTM D 3273 and evaluated according to ASTM D 3274 or ASTM G 21.
- E. Antimicrobial Fungicide Treatment: Provide acoustical panels with face and back surfaces coated with antimicrobial treatment consisting of manufacturer's standard formulation with fungicide added to inhibit growth of mold and mildew and showing no mold or mildew growth when tested according to ASTM D 3273 and evaluated according to ASTM D 3274 or ASTM G 21.

2.2 ACOUSTICAL PANELS FOR ACOUSTICAL PANEL CEILING (APC-1 as indicated on Finish Schedule)

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A. Basis-of-Design Product: Subject to compliance with requirements, provide USG Interiors, Inc. Mars ClimaPlus, or a comparable product by one of the following:

1. Armstrong World Industries, Inc..
2. BPB USA.
3. Chicago Metallic Corporation.
4. Ecophon CertainTeed, Inc.
5. Tectum Inc.

B. Classification: Provide panels complying with ASTM E 1264 for type, form, and pattern as follows:

1. Type and Form: Type IV, Form 1 and 2
2. Pattern: E (lightly textured) G (smooth)

C. Color: White.

D. LR: Not less than 0.89.

E. NRC: Not less than 0.70

F. CAC: Not less than 35.

G. Edge/Joint Detail:

1. Square: Basement Corridor
2. FLB: Restrooms

H. Thickness: 3/4 inch

I. Modular Size: As indicated on Drawings

2.3 ACOUSTICAL PANELS FOR ACOUSTICAL PANEL CEILING (APC-2 as indicated on Finish Schedule)

A. Basis-of-Design Product: Subject to compliance with requirements, provide USG Interiors, Inc. Mars ClimaPlus High-NRC, or a comparable product by one of the following:

1. Armstrong World Industries, Inc..
2. BPB USA.
3. Chicago Metallic Corporation.
4. Ecophon CertainTeed, Inc.
5. Tectum Inc.

B. Classification: Provide panels complying with ASTM E 1264 for type, form, and pattern as follows:

1. Type and Form: Type IV, Form 1 and 2
2. Pattern: E (lightly textured) G (smooth)

C. Color: White As indicated by manufacturer's designation

D. LR: Not less than .89.

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- E. NRC: Not less than 0.80
- F. CAC: Not less than 35.
- G. Edge/Joint Detail:
 - 1. FLB
- H. Thickness: 7/8 inch
- I. Modular Size: 24" x 24"
- J. Location: Lower 8'-5" ceiling on floors 2-8.

2.4 ACOUSTICAL PANELS FOR ACOUSTICAL PANEL CEILING (APC-3 as indicated on Finish Schedule)

- A. Basis-of-Design Product: Subject to compliance with requirements, provide USG Interiors, Inc. Clean Room ClimaPlus, or a comparable product by one of the following:
 - 1. Armstrong World Industries, Inc..
 - 2. BPB USA.
 - 3. Chicago Metallic Corporation.
 - 4. Ecophon CertainTeed, Inc.
 - 5. Tectum Inc.
- B. Classification: Provide panels complying with ASTM E 1264 for type, form, and pattern as follows:
 - 1. Type and Form: Type X
 - 2. Pattern: GI
- C. Color: White
- D. LR: Not less than .79.
- E. NRC: n/a
- F. CAC: Not less than 35.
- G. Edge/Joint Detail:
 - 1. Square
- H. Thickness: 5/8 inch
- I. Modular Size: As indicated on Drawings

2.5 ACOUSTICAL PANELS FOR ACOUSTICAL PANEL CEILING (APC-4 as indicated on Finish Schedule)

- A. Basis-of-Design Product: Subject to compliance with requirements, provide USG Interiors, Inc. Halcyon ClimaPlus field panel for Logix Linear, or a comparable product by one of the following:
1. Armstrong World Industries, Inc..
 2. BPB USA.
 3. Chicago Metallic Corporation.
 4. Ecophon CertainTeed, Inc.
 5. Tectum Inc.
- B. Classification: Provide panels complying with ASTM E 1264 for type, form, and pattern as follows:
1. Type and Form: Type XII, Form 2
 2. Pattern: G (smooth).
- C. Color: White
- D. LR: Not less than 0.88
- E. NRC: Not less than 0.95.
- F. CAC: Not less than 20
- G. Edge/Joint Detail:
1. FL
- H. Thickness: 1 inch.
- I. Modular Size: As indicated on Drawings

2.6 ALUMINUM CHANNEL PANS FOR ACOUSTICAL METAL PAN CEILING (APC-4 as indicated on Finish Schedule)

- A. Aluminum Metal Pans:
1. Basis-of-Design Product: Subject to compliance with requirements, provide USG Interiors, Inc. Panz Channel Panel, or a comparable product by one of the following:
 - a. Armstrong World Industries, Inc..
 - b. BPB USA.
 - c. Chicago Metallic Corporation.
 - d. Ecophon CertainTeed, Inc.
 - e. Tectum Inc.
- B. Classification: Units complying with ASTM E 1264 for Type XX, other types described as perforated steel facing (pan) units.
1. Pattern: Pattern A (perforated, regularly spaced large holes), arranged in parallel alignment to pan edge with uniform perforations of dimension, holes per square foot or inch, and percent open area as indicated by product designation.

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- C. Pan Fabrication: Manufacturer's standard units of size, profile, and edge treatment indicated, formed from metal indicated and finished to comply with requirements indicated.
 - 1. Lay-in Pans: Formed to set in exposed suspension grid.
- D. Pan Thickness: Not less than 0.020 inch (0.5 mm).
- E. Pan Edge Detail: FL as per manufacturer.
- F. Perforation Size: Round – 15/128 inch perforations, .250 inch on center, 17% open area for HVAC return area.
- G. Pan Size: 6" x 60", 6" x 48", 6" x 24".
- H. Pan Face Finish: Painted white.

2.7 METAL SUSPENSION SYSTEMS, GENERAL

- A. Recycled Content: Provide products made from steel sheet with average recycled content such that postconsumer recycled content plus one-half of preconsumer recycled content is not less than 65 percent.
- B. 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. Finishes and Colors, General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes. Provide manufacturer's standard factory-applied finish for type of system indicated.
 - 1. High-Humidity Finish: Comply with ASTM C 635 requirements for "Coating Classification for Severe Environment Performance" where high-humidity finishes are indicated.
- D. Attachment Devices: Size for five times the design load indicated in ASTM C 635, Table 1, "Direct Hung," unless otherwise indicated. Comply with seismic design requirements.
 - 1. Anchors in Concrete: Anchors of type and material indicated below, with holes or loops for attaching hangers of type indicated and with capability to sustain, without failure, a load equal to five times that imposed by ceiling construction, as determined by testing per ASTM E 488 or ASTM E 1512 as applicable, conducted by a qualified testing and inspecting agency.
 - a. Corrosion Protection: Carbon-steel components zinc plated to comply with ASTM B 633, Class Fe/Zn 5 (0.005 mm) for Class SC 1 service condition.
 - 2. Power-Actuated Fasteners in Concrete: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with clips or other accessory devices for attaching hangers of type indicated, and with capability to sustain, without failure, a load equal to 10 times that imposed by ceiling construction, as determined by testing per ASTM E 1190, conducted by a qualified testing and inspecting agency.
- E. Wire Hangers, Braces, and Ties: Provide wires complying with the following requirements:
 - 1. Zinc-Coated, Carbon-Steel Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper.

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2. Size: Select wire diameter so its stress at 3 times hanger design load (ASTM C 635, Table 1, "Direct Hung") will be less than yield stress of wire, but provide not less than 0.106-inch-diameter wire.

- F. Hold-Down Clips: Where indicated, provide manufacturer's standard hold-down clips spaced 24 inches o.c. on all cross tees.

2.8 METAL SUSPENSION SYSTEM FOR ACOUSTICAL PANEL CEILING

- A. Basis-of-Design Product: Subject to compliance with requirements, provide USG Interior, Inc., Centricitee DXT24 Logix Linear or a comparable product by one of the following:

1. Armstrong World Industries, Inc..
2. BPB USA.
3. Chicago Metallic Corporation.
4. Ecophon CertainTeed, Inc.
5. Tectum Inc.

- B. Narrow-Face, Capped, Double-Web, Steel Suspension System: Main and cross runners roll formed from cold-rolled steel sheet, prepainted, electrolytically zinc coated, or hot-dip galvanized according to ASTM A 653/A 653M, not less than G30 coating designation, with prefinished 9/16-inch- wide metal caps on flanges.

1. Structural Classification: Intermediate -duty system.
2. End Condition of Cross Runners: Per manufacturer.
3. Face Design: Flat, flush .
4. Cap Material: Steel cold-rolled sheet.
5. Cap Finish: White
6. Location:

- a. As indicated on First floor plan, i.e., Meeting/Conference Rooms
- b. At all Logix Linear Upper Ceilings floors 2 through 8.

2.9 METAL SUSPENSION SYSTEM FOR ACOUSTICAL PANEL CEILING

- A. Basis-of-Design Product: Subject to compliance with requirements, provide USG Interior, Inc., DXL, or a comparable product by one of the following:

1. Armstrong World Industries, Inc..
2. BPB USA.
3. Chicago Metallic Corporation.
4. Ecophon CertainTeed, Inc.
5. Tectum Inc.

- B. Wide-Face, Capped, Double-Web, Hot-Dip Galvanized, G60 , Steel Suspension System: Main and cross runners roll formed from cold-rolled steel sheet, hot-dip galvanized according to ASTM A 653/A 653M, G60 coating designation, with prefinished, cold-rolled, 15/16-inch- wide, aluminum caps on flanges.

1. Structural Classification: Intermediate -duty system.
2. Face Design: Flat, flush.
3. Face Finish: Painted white

2.10 METAL EDGE MOLDINGS AND TRIM

- A. Basis-of-Design Product: Subject to compliance with requirements, provide USG Interiors, Inc. Shadow molding, or a comparable product by one of the following:
1. Armstrong World Industries, Inc..
 2. BPB USA.
 3. Chicago Metallic Corporation.
 4. Ecophon CertainTeed, Inc.
 5. Tectum Inc.
- B. Roll-Formed, Sheet-Metal Edge Moldings and Trim: Type and profile indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations that comply with seismic design requirements; formed from sheet metal of same material, finish, and color as that used for exposed flanges of suspension system runners.
1. Provide manufacturer's standard edge moldings that fit acoustical panel edge details and suspension systems indicated and that match width and configuration of exposed runners, unless otherwise indicated.
 2. For lay-in panels with reveal edge details, provide stepped edge molding that forms reveal of same depth and width as that formed between edge of panel and flange at exposed suspension member .
 3. Conversion-Coated Finish: AA-M12C42 (Chemical Finish: cleaned with inhibited chemicals; acid-chromate-fluoride-phosphate conversion coating).

2.11 ACOUSTICAL SEALANT

- A. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
- B. Products: Subject to compliance with requirements, provide one of the following:
1. Acoustical Sealant for Exposed and Concealed Joints:
 - a. Pecora Corporation; AC-20 FTR Acoustical and Insulation Sealant.
 - b. USG Corporation; SHEETROCK Acoustical Sealant.
- C. Acoustical Sealant for Exposed and Concealed Joints: Manufacturer's standard nonsag, paintable, nonstaining latex sealant, with a VOC content of 250 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24), complying with ASTM C 834 and effective in reducing airborne sound transmission through perimeter joints and openings in building construction as demonstrated by testing representative assemblies according to ASTM E 90.

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.

1. 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 and seismic design requirements indicated, per 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 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. Do not attach hangers to steel roof deck. Attach hangers to structural members.
 6. 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.
 7. Size supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced standards and publications.
- C. 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.
- D. Install suspension system runners so they are square and securely interlocked with one another. Remove and replace dented, bent, or kinked members.
- E. 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. As indicated on reflected ceiling plans.
2. For square-edged panels, install panels with edges fully hidden from view by flanges of suspension system runners and moldings.
3. For reveal-edged panels on suspension system runners, install panels with bottom of reveal in firm contact with top surface of runner flanges.
4. For reveal-edged panels on suspension system members with box-shaped flanges, install panels with reveal surfaces in firm contact with suspension system surfaces and panel faces flush with bottom face of runners.
5. 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.
6. 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.
7. Install clean-room gasket system in areas indicated, sealing each panel and fixture as recommended by panel manufacturer's written instructions.

3.4 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 095113

SECTION 096816 - SHEET CARPETING

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. This Section includes the following:

- 1. Tufted carpet.

- B. Related Sections include the following:

- 1. Section 024119 "Selective Structure Demolition" for removing existing floor coverings.
- 2. Section 033000 "Cast-In-Place Concrete" for subfloor repair, patching and feathering to match adjacent floor elevations.
- 3. Section 096513 "Resilient Base and Accessories" for resilient wall base and accessories installed with carpet tile.

1.3 SUBMITTALS

- A. Product Data: For the following, including installation recommendations for each type of substrate:

- 1. Carpet: For each type indicated. Include manufacturer's written data on physical characteristics, durability, and fade resistance.

- B. Samples: For each of the following products and for each color and texture required. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules.

- 1. Carpet: 12-inch- square Sample.
- 2. Exposed Edge, Transition, and other Accessory Stripping: 12-inch- long Samples.

- C. LEED Submittals:

- 1. Product Data for Credit EQ 4.3:

- a. For carpet, documentation indicating compliance with testing and product requirements of Carpet and Rug Institute's "Green Label Plus" program.
- b. For installation adhesive, including printed statement of VOC content.

- D. Maintenance Data: For carpet to include in maintenance manuals. Include the following:

- 1. Methods for maintaining carpet, including cleaning and stain-removal products and procedures and manufacturer's recommended maintenance schedule.

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2. Precautions for cleaning materials and methods that could be detrimental to carpet.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who is certified by the Floor Covering Installation Board or who can demonstrate compliance with its certification program requirements.
- B. Mockups: Before installing carpet, build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 1. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Comply with CRI 104, Section 5, "Storage and Handling."

1.6 PROJECT CONDITIONS

- A. Comply with CRI 104, Section 7.2, "Site Conditions; Temperature and Humidity" and Section 7.12, "Ventilation."
- B. Environmental Limitations: Do not install carpet until wet work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
- C. Do not install carpet over concrete slabs until slabs have cured, are sufficiently dry to bond with adhesive, and have pH range recommended by carpet manufacturer.
- D. Where demountable partitions or other items are indicated for installation on top of carpet, install carpet before installing these items.

1.7 WARRANTY

- A. Special Warranty for Carpet: Manufacturer's standard form in which manufacturer agrees to repair or replace components of carpet installation that fail in materials or workmanship within specified warranty period.
 1. Warranty does not include deterioration or failure of carpet due to unusual traffic, failure of substrate, vandalism, or abuse.
 2. Failures include, but are not limited to, more than 10 percent loss of face fiber, edge raveling, snags, runs, loss of tuft bind strength, excess static discharge, and delamination.
 3. Warranty Period: 10 years from date of Substantial Completion.

1.8 EXTRA MATERIALS

- A. Furnish extra materials described below, before installation begins, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Carpet: Full-width rolls equal to 5 percent of amount installed for each type indicated, but not less than 10 sq. yd.

PART 2 - PRODUCTS

2.1 TUFTED CARPET (CPT-1 & CPT-2)

- A. Products: Subject to compliance with requirements, provide one of the following:
 1. CPT-1 & CPT-2
 - a. Color: As selected by Architect from manufacturer's full range.
 - b. Pattern: As selected by Architect from manufacturer's full range.
- B. Fiber Content: 100 percent nylon 6, 6
- C. Pile Characteristic: Textured Patterned Cut and Loop.
- D. Pile Weight: 33.0 oz per sq. yd. (1119g/m²)
- E. Pile Thickness: .154" for finished carpet per ASTM D 6859.
- F. Density: 7,714
- G. Weight Density: 254,571
- H. Stitches: 10.5 per inch
- I. Gage: 1/12 (47.00 rows per 10cm)
- J. Face Weight: 20 oz/yd²
- K. Primary Backing: Manufacturer's standard material
- L. Dye Method: Piece Dyed
- M. Width: 12 feet
- N. Applied Soil-Resistance Treatment: Antron ® Legacy nylon 6,6 with DuraTech Soil Protection by DuPont.
- O. Performance Characteristics: As follows:
 1. Flammability: ASTM E648 Class 1 (Glue Down)
 2. Smoke Density: ASTM E662 less than 450
 3. Electrostatic Propensity: Less than 3.5 kV per AATCC 134.
 4. Environmental Requirements: Provide carpet that complies with testing and product requirements of Carpet and Rug Institute's "Green Label Plus" program.

2.2 TUFTED CARPET (CPT-3)

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- A. Products: Subject to compliance with requirements, provide one of the following:
1. CPT-3 (open offices floors 2-8)
 - a. Color: 214 Outstanding
 - b. Style: By The Book GL091
- B. Fiber Content: 100 percent nylon 6, 6
- C. Pile Characteristic: Level-loop pile.
- D. Density: 6,000
- E. Weight Density: 120,00
- F. Pile Thickness: .120" for finished carpet per ASTM D 6859.
- G. Stitches: 10.5 per inch
- H. Gage: 1/12 (47.2/10cm)
- I. Face Weight: 20 oz/yd²
- J. Backing Material: Manufacturer's standard material
- K. Width: 12 feet
- L. Applied Soil-Resistance Treatment: Antron ® Legacy nylon 6,6 with DuraTech Soil Protection by DuPont.
- M. Performance Characteristics: As follows:
1. Flammability: Passes DOC-FF-1-70 Pill Test
 2. Smoke Density: NBS Smoke Chamber NFPA-258 – Less than 450 Flaming Mode
 3. Electrostatic Propensity: Less than 3.0 kV per AATCC 134.
 4. Environmental Requirements: Provide carpet that complies with testing and product requirements of Carpet and Rug Institute's "Green Label Plus" program.

2.3 INSTALLATION ACCESSORIES

- A. Trowelable Leveling and Patching Compounds: Latex-modified, hydraulic-cement-based formulation provided or recommended by carpet manufacturer.
- B. Adhesives: Water-resistant, mildew-resistant, nonstaining type to suit products and subfloor conditions indicated, that complies with flammability requirements for installed carpet and is recommended or provided by carpet manufacturer.
1. VOC Limits: Provide adhesives with VOC content not more than 50g/L when calculated according to 40 CFR 59, Subpart D (EPA method 24).
- C. Seam Adhesive: Hot-melt adhesive tape or similar product recommended by carpet manufacturer for sealing and taping seams and butting cut edges at backing to form secure seams and to prevent pile loss at seams.

- D. Metal Edge Strips: Extruded aluminum with mill finish of width shown, of height required to protect exposed edge of carpet, and of maximum lengths to minimize running joints.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for maximum moisture content, alkalinity range, installation tolerances, and other conditions affecting carpet performance. Examine carpet for type, color, pattern, and potential defects.
- B. Concrete Subfloors: Verify that concrete slabs comply with ASTM F 710 and the following:
1. Slab substrates are dry and free of curing compounds, sealers, hardeners, and other materials that may interfere with adhesive bond. Determine adhesion and dryness characteristics by performing bond and moisture tests recommended by carpet manufacturer.
 2. Subfloor finishes comply with requirements specified in Division 03 Section "Cast-in-Place Concrete" for slabs receiving carpet.
 3. Subfloors are free of cracks, ridges, depressions, scale, and foreign deposits.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. General: Comply with CRI 104, Section 7.3, "Site Conditions; Floor Preparation," and with carpet manufacturer's written installation instructions for preparing substrates.
- B. Use trowelable leveling and patching compounds, according to manufacturer's written instructions, to fill cracks, holes, depressions, and protrusions in substrates. Fill or level cracks, holes and depressions 1/8 inch wide or wider, and protrusions more than 1/32 inch, unless more stringent requirements are required by manufacturer's written instructions.
- C. Remove coatings, including curing compounds, and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, without using solvents. Use mechanical methods recommended in writing by carpet manufacturer.
- D. Broom and vacuum clean substrates to be covered immediately before installing carpet.

3.3 INSTALLATION

- A. Comply with CRI 104 and carpet manufacturer's written installation instructions for the following:
1. Direct-Glue-Down Installation: Comply with CRI 104, Section 9, "Direct Glue-Down Installation."
- B. Comply with carpet manufacturer's written recommendations and Shop Drawings for seam locations and direction of carpet; maintain uniformity of carpet direction and lay of pile. At doorways, center seams under the door in closed position.

1. Level adjoining border edges.
- C. Do not bridge building expansion joints with carpet.
- D. Cut and fit carpet to butt tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings. Bind or seal cut edges as recommended by carpet manufacturer.
- E. Extend carpet into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.
- F. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on finish flooring as marked on subfloor. Use nonpermanent, nonstaining marking device.
- G. Install pattern parallel to walls and borders to comply with CRI 104, Section 15, "Patterned Carpet Installations" and with carpet manufacturer's written recommendations.

3.4 CLEANING AND PROTECTING

- A. Perform the following operations immediately after installing carpet:
 1. Remove excess adhesive, seam sealer, and other surface blemishes using cleaner recommended by carpet manufacturer.
 2. Remove yarns that protrude from carpet surface.
 3. Vacuum carpet using commercial machine with face-beater element.
- B. Protect installed carpet to comply with CRI 104, Section 16, "Protection of Indoor Installations."
- C. Protect carpet against damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods indicated or recommended in writing by carpet manufacturer and carpet adhesive manufacturer.

END OF SECTION 096816

SECTION 098413 - FIXED SOUND ABSORPTIVE AND TACKABLE PANELS

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 shop-fabricated, fabric-wrapped panel units tested for acoustical performance, including:
 - 1. Stretched fabric wall panels
 - 2. Core Materials
 - 3. Fabric facing
 - 4. Fabric treatments
- B. Related Sections:
 - 1. Section 097723 "Fabric-Wrapped Panels" for fabric-wrapped wall panels that are not required to be tested for acoustical performance.
 - 2. Section 092613 "Gypsum Veneer Plastering".

1.3 DEFINITIONS

- A. NRC: Noise Reduction Coefficient.
- B. SAA: Sound Absorption Average.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of fabric facing, panel edge, core material, and mounting indicated.
- B. LEED Submittals:
 - 1. Product Data for Credit MR 4: For products having recycled content, documentation indicating percentages by weight of postconsumer and preconsumer recycled content. Include statement indicating cost for each product having recycled content.
 - 2. Product Certificates for Credit MR 5.1: For products and materials required to comply with requirements for regionally manufactured materials. Include statement indicating cost, location of manufacturer, and distance to Project for each regionally manufactured material.
 - 3. Laboratory Test Reports for Credit IEQ 4: For sound-absorbing wall units, documentation indicating that products 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."

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- C. Shop Drawings: For sound-absorbing wall units. Include mounting devices and details; details at panel head, base, joints, and corners; and details at ceiling, floor base, and wall intersections. Indicate panel edge and core materials.
 - 1. Include elevations showing panel sizes and direction of fabric weave and pattern matching.
- D. Samples for Initial Selection: For each type of fabric facing from sound-absorbing wall unit manufacturer's full range.
- E. Samples for Verification: For the following products, prepared on Samples of size indicated below:
 - 1. Fabric: Full-width by approximately 36-inch- (900-mm-) long Sample, but not smaller than required to show complete pattern repeat, from dye lot to be used for the Work, and with specified treatments applied. Mark top and face of fabric.
 - 2. Panel Edge: 12-inch- (300-mm-) long Sample(s) showing each edge profile, corner, and finish.
 - 3. Core Material: 12-inch- (300-mm-) square Sample at corner.
 - 4. Mounting Devices: Full-size Samples.
 - 5. Assembled Panels: Approximately 36 by 36 inches (900 by 900 mm), including joints and mounting methods.

1.5 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: Elevations and other details, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:
 - 1. Electrical outlets, switches, and thermostats.
 - 2. Items penetrating or covered by sound-absorbing wall units including the following:
 - a. Lighting fixtures.
 - b. Air outlets and inlets.
 - c. Speakers.
 - d. Alarms.
 - e. Sprinklers.
 - f. Access panels.

1.6 QUALITY ASSURANCE

- A. Source Limitations: Obtain sound-absorbing wall units from single source from single manufacturer.
- B. Fire-Test-Response Characteristics: Provide sound-absorbing wall units meeting the following as determined by testing identical products by UL or another testing and inspecting agency acceptable to authorities having jurisdiction:
 - 1. Surface-Burning Characteristics: As determined by testing per ASTM E 84.
 - a. Flame-Spread Index: 25 or less.
 - b. Smoke-Developed Index: 450 or less.
- C. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials, fabrication, and installation.

1. Build mockup of typical wall area as directed by Architect . Include intersection of wall and ceiling, corners, and perimeters.
2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Comply with fabric and sound-absorbing wall unit manufacturers' written instructions for minimum and maximum temperature and humidity requirements for shipment, storage, and handling.
- B. Deliver materials and units in unopened bundles and store in a temperature-controlled dry place with adequate air circulation.

1.8 PROJECT CONDITIONS

- A. Environmental Limitations: Do not install sound-absorbing wall units until spaces are enclosed and weathertight, wet work in spaces is complete and dry, work at and above ceilings is complete, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
- B. Lighting: Do not install sound-absorbing wall units until a permanent level of lighting or a lighting level of not less than 80 fc is provided on surfaces to receive the units.
- C. Air-Quality Limitations: Protect sound-absorbing wall units from exposure to airborne odors, such as tobacco smoke, and install units under conditions free from odor contamination of ambient air.
 1. Maintain ambient temperature and humidity within spaces to receive stretched fabric panel system at levels indicated for final acceptance. Levels shall be maintained continuously from at least 48 hours prior to installation until space is turned over to Owner.
- D. Field Measurements: Verify locations of sound-absorbing wall units and actual dimensions of openings and penetrations by field measurements before fabrication.

1.9 SEQUENCING AND SCHEDULING

- A. Schedule installation of stretched fabric system as late as possible in sequence of construction schedule to reduce damage.
 1. Do not install stretched fabric system until space is enclosed, weather tight and conditioned.
 2. Under no circumstances shall installation begin prior to completion of abutting grid ceiling installation.
 3. No wet work shall remain with exception of touchup.

1.10 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of sound-absorbing wall units that fail in materials or workmanship within specified warranty period.

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1. Failures include, but are not limited to the following:
 - a. Acoustical performance.
 - b. Fabric sagging, distorting, or releasing from panel edge.
 - c. Warping of core.
2. Warranty Period: Limited Lifetime Warranty* to the Authorized Distributor or Certified Installer for the "Life" of the installation. from date of Substantial Completion.
 - a. *Manufacturer will provide replacement extrusions that are deemed defective at no charge to the Authorized Distributor or Certified Installer during the "useable life" of an installation. The Manufacturer does not warranty against damage by others, normal wear and tear, the project installation, fabric or core materials which may have certain other manufacturer warranties.

PART 2 - PRODUCTS

2.1 SOUND-ABSORBING WALL UNITS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated or comparable product by one of the following:
 1. Acoustical Panel Systems (APS, Inc.).
 2. Acoustical Solutions, Inc.
 3. Benton Brothers Solutions, Inc.
 4. Conwed Designscape; an Owens Corning company.
 5. Decoustics Limited; a CertainTeed Ceilings company.
 6. Essi Acoustical Products.
 7. Golterman & Sabo.
 8. Kinetics Noise Control, Inc.
 9. Novawall Systems, Inc.
- B. Sound-Absorbing Wall Panel: Manufacturer's standard panel construction consisting of facing material stretched over front face of edge-framed core and bonded or attached to edges and back of frame.
 1. Basis-of-Design Product: Novawall Systems, Inc., ¼" Reveal profile..
 2. Mounting: Back mounted with manufacturer's standard metal clips or bar hangers, secured to substrate.
 3. Core: Manufacturer's standard glass-fiber board.
 - a. Density: 6 pcf.
 - b. Thickness: 1" nominal
 - c. Noise Reduction Coefficient; determined by ASTM C423 Type A Mounting: 1" thickness (.80 minimum)
 4. Edge Construction: Manufacturer's standard extruded PVC frame .
 5. Edge Profile: Square with reveals as indicated on Drawings. .
 6. Reveals between Panels: Recessed reveals as indicated on Drawings .
 7. Facing Material: Panel fabric.

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8. Acoustical Performance: Sound absorption NRC of .80 minimum according to ASTM C 423 for Type A mounting according to ASTM E 795.
9. Nominal Core Thickness: 1 inch (25 mm).
10. Panel Width: As indicated on Drawings .
11. Panel Height: As indicated on Drawings .

2.2 MATERIALS

A. General:

1. Minimum Recycled Content: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 10 percent by weight.
2. Regional Materials: Sound-absorbing wall units shall be manufactured within 500 miles (800 km) of Project site.

B. Core Materials: Manufacturer's standard.

1. Glass-Fiber Board: ASTM C 612, Type standard with manufacturer; nominal density of 6 to 7 lb/cu. ft. (96 to 112 kg/cu. m), unfaced, and dimensionally stable, molded rigid board; and with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively.
2. Tackable, Impact-Resistant, High-Density Board for Face Layer: 1/8-inch- (3.2-mm-) thick layer of compressed molded glass-fiber board with a nominal density of 16 to 18 lb/cu. ft. (256 to 288 kg/cu. m) laminated to face of core.

C. Facing Material: Fabric from same dye lot; color and pattern as selected by Architect from manufacturer's full range.

1. Manufacturer: Guilford of Maine.
2. Product Line/Pattern: Terratex.

D. Mounting Devices: Concealed on back of unit, recommended by manufacturer to support weight of unit, and as follows:

1. Metal Clips or Bar Hangers: Manufacturer's standard two-part metal "Z" clips, with one part of each clip mechanically attached to back of unit and the other part to substrate, designed to permit unit removal.

2.3 FABRICATION

A. General: Use manufacturer's standard construction except as otherwise indicated; with facing material applied to face, edges, and back border of dimensionally stable core; and with rigid edges to reinforce panel perimeter against warpage and damage.

1. Glass-Fiber Board Cores: Chemically harden core edges and areas of core where mounting devices are attached.

B. Core-Face Layer: Evenly stretched over core face and edges and securely attached to core; free from puckers, ripples, wrinkles, or sags.

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- C. Facing Material: Apply fabric facing fully covering visible surfaces of unit; with material stretched straight, on the grain, tight, square, and free from puckers, ripples, wrinkles, sags, blisters, seams, adhesive, or other visible distortions or foreign matter.
 - 1. Square Corners: Tailor corners.
 - 2. Fabrics with Directional or Repeating Patterns or Directional Weave: Mark fabric top and attach fabric in same direction so pattern or weave matches in adjacent units.
- D. Dimensional Tolerances of Finished Units: Plus or minus 1/16 inch (1.6 mm) for the following:
 - 1. Thickness.
 - 2. Edge straightness.
 - 3. Overall length and width.
 - 4. Squareness from corner to corner.
 - 5. Chords, radii, and diameters.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine fabric, fabricated units, substrates, areas, and conditions, for compliance with requirements, installation tolerances, and other conditions affecting performance of sound-absorbing wall units.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install sound-absorbing wall units in locations indicated with vertical surfaces and edges plumb, top edges level and in alignment with other units, faces flush, and scribed to fit adjoining work accurately at borders and at penetrations.
- B. Comply with sound-absorbing wall unit manufacturer's written instructions for installation of units using type of mounting devices indicated. Mount units securely to supporting substrate.
- C. Align and level fabric pattern and grain among adjacent units.

3.3 INSTALLATION TOLERANCES

- A. Variation from Plumb and Level: Plus or minus 1/16 inch (1.6 mm).
- B. Variation of Panel Joints from Hairline: Not more than 1/32 inch (0.79 mm) wide.

3.4 CLEANING

- A. Clip loose threads; remove pills and extraneous materials.

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- B. Clean panels on completion of installation to remove dust and other foreign materials according to manufacturer's written instructions.

END OF SECTION 098433

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SECTION 129310 - SITE FURNISHINGS

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. Seating Benches.

- B. Related Requirements:

- 1. Division 03 Section "Cast-in-Place Concrete" Civil for concrete walk paving base.

1.3 ACTION SUBMITTALS

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

- B. LEED Submittals:

- 1. Certificates for Credit MR 6 & Credit MR 7: Chain-of-custody certificates indicating that wood components of site furnishings comply with forest certification requirements. Include documentation that manufacturer is certified for chain of custody by an FSC-accredited certification body. Include statement indicating cost for each certified wood product.

- C. Product Schedule: For site furnishings. Use same designations indicated on Drawings.

1.4 INFORMATIONAL SUBMITTALS

- A. Material Certificates: For site furnishings.

- 1. Wood Preservative Treatment: Include certification by treating plant stating type of preservative solution and pressure process used, net amount of preservative retained, and compliance with applicable standards.

PART 2 - PRODUCTS

2.1 SEATING:

- A. Products: Subject to compliance with requirements, provide the following]:
 - 1. Teak wood bench "Monarch Series" 4613 - 6 foot length
- B. Basis-of-Design Product: Subject to compliance with requirements, provide as available from:
 - 1. Country Casual. Gaithersburgh MD, 1-800 289 8325,
- C. Frame: Teak
- D. Seat and Back:
 - 1. Material:
 - a. Wood: Teak
 - b. Arm Material: Match frame and seat
 - 2. Seating Configuration:
 - a. Curved shape.
- E. Wood Finish: Factory-applied transparent finish
 - 1. Oil: Manufacturer's clear
- F. Accessories:
 - 1. On Grade Anchor: Manufacturer's supplied 3 inch brass anchors

2.2 FABRICATION

- A. Exposed Surfaces: Polished, sanded, or otherwise finished; all surfaces smooth, free of burrs, barbs, splinters, and sharpness; all edges and ends rolled, rounded, or capped.
- B. Factory Assembly: Assemble components in the factory to greatest extent possible to minimize field assembly. Clearly mark units for assembly in the field.

2.3 GENERAL FINISH REQUIREMENTS

- A. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

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PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for correct and level finished grade, mounting surfaces, installation tolerances, and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

- A. Comply with manufacturer's written installation instructions unless more stringent requirements are indicated. Complete field assembly of site furnishings where required.
- B. Unless otherwise indicated, install site furnishings after landscaping and paving have been completed.
- C. Install site furnishings level, plumb, true, and securely anchored at locations indicated on Drawings.
 - 1. Review locations on site with Owner's Representative for final placement.
- D. Bench Setting: install anchor brackets at each bench leg and secure by through bolt of same material and epoxy setting to concrete walk.

END OF SECTION 129310

GSD106450 Addendum #6

Technical Questions & Answers

Question #98

Sheet A-604 Door Schedule General Note # "Exist HM Door Frames Frame Type "B" Shall Be Painted..." seems to imply that ALL Type B Door frames are EXISTING and to be Painted or Seems to imply that Basement Doors EX.ST.W / EXIST WEST STAIR and EX.ST.E. / EXIST EAST STAIR and remaining floor are the only EXISTING type B frames to be painted.

There is no designation in the Frame Columns indicating ANY Type B frames are existing. Please make more clear what is existing, and what isn't, what is reused and what is new.

Answer #98

Clarification: Sheet A-604, Door Schedule 13/A-604: Revise FRAME TYPE for Doors 120.1, C.CL, EX.ST.W & EX.ST.E from "EXIST" to "EXIST/B". These are existing door frames to remain, prepped and repainted. See Division 9 Section 'Interior Painting'.

Question #99

Please provide specifications (material, flame spread rating, manufacturers, colors, attachments...) for signage items on Sheet A-606.

Answer #99

See Item S-A12 of Addendum No. 2 (Specification 104310 "SIGNAGE").

Question #100

Per spec. section 084126 All Glass Entrances and Storefronts: which doors get Exit devices per 2.4I and which get Deadbolts per 2.4G?

Answer #100

Delete paragraphs 2.4.G and 2.4.I, including all subparagraphs. All door hardware to be provided by All-Glass door manufacturer, refer to 2.4.B.

Question #101

Door 505 says doors are a pr type 12 but shows on pg A409 detail 2 all glass door #10 single door with a size of 3/0 x 8/5 with all glass sidelite – which is correct?

Answer #101

Clarification: Sheet A-604, Door Schedule 13/A-604: Revise NOTES for Door 505 from "C,P" to "P". See SK-21 for revised drawing 2/A-409.

Question #102

Door 705 shows an elev. A409 #18 that the glass is privacy and also on the door schedule but on A409 #7th fl E does not indicate privacy glass. Which is correct?

Answer #102

Clarification: Sheet A-409, Elevation 7th Floor – E, 3/A-409: Revise glass letter @ lower right corner of each pane from "T" to "EG".

Question #103

Under notes on Door Sch. A604 for door 705 shows privacy glass and also 'M' Reeded Glass. Which is correct?

Answer #103

Clarification: Sheet A-604, Door Schedule 13/A-604:

1. Revise NOTES for Door 705 from "C, M, P" to "C, P".
2. Revise NOTES for Door 706.2 from "-" to "M".

Question #104

On Pg A603 Door and window types, Door type 2 says new door to match existing but on the Door Schedule for Doors 100A.1 thru 100A.6 on Pg.A604 it indicates existing salvaged doors - which is correct?

Answer #104

Clarification: Sheet A-603, Door & Window Types, 1/A-603:

1. Revise note "NEW DOOR TO MATCH EXISTING, FV" to "DOOR TYPE 3 TO MATCH EXISTING SALV DOOR TYPE 2. SEE DOOR SCHED FOR TYPE 3 & 3A DOOR WIDTH. (doors 100A.1 thru 100A.6 are existing salvaged doors located on the Machine Room Floor)

Question #105

Doors 507.1, 122B, 115A.1 and 805.1 no frame type indicated. Please advise.

Answer #105

Clarification: Sheet A-604, Door Schedule 13/A-604:

1. Revise FRAME TYPE for Door 507.1 from "-" to "L".
2. Revise FRAME TYPE for Door 122B from "-" to "2/A-407".
3. Revise FRAME TYPE for Door 115A.1 from "-" to "4/A-402". See SK-22.
4. Revise FRAME TYPE for Door 805.1 from "-" to "L".

Question #106

Door 803.1 shows the same as Door 805.1 but the door schedule says H M F. W/wd door. Frame shows Type A (no sidelites) on door schedule but 8th floor plan shows single door with sidelite. Which is correct?

Answer #106

Clarification: Sheet A-605, Door Schedule 3/A-605:

1. Revise NOTES for Door 803.1 & 805.1 from "B, D, J" to "B, D".
2. Change DOOR TYPE for Door 803.1 & 805.1 to "6".
3. Revise FRAME MAT'L for Door 803.1 from "HM" to "AL".
4. Change FRAME TYPE for Door 803.1 & 805.1 to "L".
5. Revise DOOR MAT'L for Door 805.1 from "AL/GL" to "SCW".

Question #107

Door 121 Pr 6/0 x 7/0 from door Schedule but 1st floor plan shows single door with sidelite. Which is correct?

Answer #107

Clarification: Sheet A-604, Door Schedule 13/A-604:

1. Revise DOOR/SIZE/WIDTH for Door 121 from "6'-0"" to "3'-0"". (single door shown on A-101 First Floor is correct)

Question #108

I do not find any mirrors per spec Section 088300 other than the framed mirrors under Spec. section 10. Please advise.

Answer #108

Mirrors shown on drawing 4/A-404 & A-405 designated as '8' are to be custom frameless mirrors. See Item D-A24 thru A26 for the addition of SST framed mirror (full length).

Question #109

What is the current make up of the existing Facility Commander system?

- a. What version is it?
- b. What type of Intelligent controllers are being used?
- c. How many licenses are current installed?
- d. Will there be one command center for the entire system?
- e. How many client stations are on the current system

Answer #109

- a. What version is it? - Version 7.1
- b. What type of Intelligent controllers are being used? - Building 3 has an existing MPXN2000 intelligent controller. Please note that two controllers and five readers are imbedded in the current base. Any additional licensing for controllers and readers above that number must be included in the Base Bid.
- c. How many licenses are current installed? - Single license.
- d. Will there be one command center for the entire system? - Yes
- e. How many client stations are on the current system - Approximately 50.

Question #110

Please confirm that all devices in the Security Door Matrix not detailed in Section 28 1300 being provided under Section 087100

Answer #110

Section 281300 only contains door controllers, IO panels, card readers, power supplies, and cabling. All physical devices at door are to be included in Section 087100.

Question #111

Please confirm the CCTV equipment and software are not included in this bid.

Answer #111

Confirmed. These will be provided in a separate, later bid package.

Question #112

Specification Section 05590 Green Wall Panels – the manufacture has informed us of the following requirements:

1. A floor drain is need at the location of the Irrigation Control System. There is no floor drain designate for the loading pavilion basement or 1st floor slab, please clarify as to how we are to proceed.
2. A drain system is required to drain water away from the base of the green-wall. This drain needs to be tied into the building sanitary sewer system. There is no drain system shown or specified for this purpose, please clarify as to how are to proceed.

Answer #112

Clarification: Drawing 2/A-111 – First Floor Loading Pavilion Plan; Add the following:

1. Plumbing Contractor (PC) to add floor drain north of freight elevator.
2. PC to provide a ¾" water line from rain cistern to Irrigation Control Unit (ICU) from Bldg 3 to Loading Pavilion (LP), north of freight elevator and +/- 50'-0" from ICU to east wall of LP.
3. PC to provide back flow preventor for ICU as required by green wall manufacturer.
4. Electrical Contractor (EC) to provide telephone line to ICU as required by green wall manufacturer.
5. EC to provide 1" conduit +/- 50'-0" from ICU to east wall of LP as required by green wall manufacturer.

Question #113

Drawing C-003 – on the north side of the new loading dock there is a new ST line running west to east, please clarify the size of this line

Answer #113

The pipe is indicated as 10" SLP. Pipe sizes, lengths and depths have all been clarified and tabulated on C-003 Site Utility Plan, this Addendum.

Question #114

Drawing C-003 -- on the west side of the loading dock, at the area of the new trench drain, a 8" SLP pipe runs north to a point approx. 16'-0" north of the northwest corner of the loading dock. At this point the pipe changes direction and runs west to east to manhole # 7. At the point that the manhole changes direction does the circle represent a manhole or other drainage structure? If yes, please provide the manhole #, invert and outlet elevations and the top of manhole elevation for this structure.

Answer #114

Refer to C-003 Site Utility Plan, this Addendum. All drainage structures are now numbered and tabulated on this sheet.

Question #115

Has the Architects Estimate for the total cost of this project been published?

Answer #115

The State does not release budgetary information for projects being bid.

Question #116

Substitution Request: Carlisle Roofing System

Answer #116

This substitution did not have supporting materials to indicate which Carlisle roofing system was being requested as a substitution. Regardless though, the manufacturers and products named in the section merely indicate the level of quality required; other manufacturers or products may be submitted for approval IF it meets the salient features of the 'Basis of Design' and qualities, such as, but not limited to, type, function, dimension, in-service performance, physical properties, appearance, and other characteristics.

Question #117

The technology drawings, "T" series indicate raceway and boxes for the technology. The power wiring to the duplex outlets is included with the electrical scope of work. Will the technology wiring be provided by the Owner with the tele/data or will the electrical contractor need to provide this work? If the electrical contractor is to perform this work, please provide the wiring requirements.

Answer #117

The T-series drawings reflect technology infrastructure only. Any technology wiring needed to support the specified technology equipment will be specified in a separate, late bid package (along with said equipment) and will be the responsibility of the selected subcontractor. This is not intended to be part of the electrical contractor's scope of work.

Question #118

Drawing ES-001, note 15 states APCO to furnish and install the manholes and conduits as stated on the drawing, will they provide these items along with the excavation and backfill?

Answer #118

APCO will furnish and install manholes and conduits up to 5' outside the building. This will include excavation and backfilling.

Question #119

Section 011130 reference – under summary of work Asbestos Abatement SECTION/PART 1.2.2 mentions to remove all hazardous materials from the premises, without a change in cost even if the actual amounts vary from the list within. And any additional materials which may be discovered during renovation/demolition activities. This is problematic because of several reasons such as: we have already identified extra asbestos containing materials such as 9x9 floor tile in all offices on floors 2 through 8, which total 89,000 sqft; as well as gaskets in doors, caulking around windows, etc. I am sure there are several other items not listed that are in the building. What do we base our prices: scope of work or our survey? There is no way to price what is not shown.

Answer #19

On two separate occasions, inspections were completed on the facility and the yellow 9" x 9" floor tile & mastic along with additional sizes and color patterns of floor tiles were sampled. All of the samples that had not tested positive for asbestos (such as the yellow 9" x 9" floor tile) were not included in the abatement. No additional sampling should be conducted at the site without the approval of the owner and the architect. Unit rates should be provided for any additional items such as, but not limited to doors and gasket materials, that were unable to be sampled because they were in operation.

Question #120

I received addendum #2 which extends the bid opening until 1/20/2011. Is the cut off day for questions going to be extended?

Answer #120

The technical questions deadline was extended to 2/9/2011 by Addendum #2.

Question #121

Will the plumbing & mechanical risers for this job be coming through existing penetrations or will the contractor be responsible for core drilling new holes?

Answer #121

The contractor should provide new core drills and connect to the existing systems outside of the building or to provide holes where there are no existing penetrations.

Question #122

The fire protection drawings show the sprinkler heads placed in the utility channel. Can the sprinklers be placed in the 30 x 54 ceiling pad? As shown on the drawings the sprinklers are over spaced and don't meet code. Sprinkler need to be placed in the ceiling pads.

Answer #122

Sprinkler heads must be installed in the utility channels. The majority of the sprinkler heads shown are extended coverage sprinkler heads and provide the required coverage. Also, please refer to the following note that appears on revised drawings AC-103 and AC-107: "Office Floors 2 through 8: Contractors to coordinate location of light fixtures, HVAC diffusers, fire-suppression sprinkler heads with the Owner's approved tenant layout plan for each floor. General contractor to provide the Architect and/or Engineer shop drawings for review and approval prior to the installation of the ceiling systems."

Question #123

The standpipe and fire pump design for this building is dramatically different than for the project just completed in Building 5. This could cause great confusion upon responding fire departments. The standpipe design should match for entire capitol complex.

Answer #123

All of the buildings on the Capitol Campus are different. The Building 5 system was designed for different conditions than the new Building 3 system. Specification Section 221420, Part 1.1.E states, "The Drawings and Specifications for this project are generally schematic and are intended for bidding

purposes only and are not intended to cover each item required for a total system as outlined in NFPA 13, and where applicable, NFPA 14. The minimum spacing, quantity and arrangement of proposed sprinkler locations, equipment, piping, and standpipes indicated on the Drawings generally are diagrammatic. The exact arrangement, sizes, quantity and spacing required by the agencies having jurisdiction shall be indicated on the Working Drawings that are to be prepared by the Contractor." Also, Specification Section 221420, Part 1.3.A states, "All fire protection work and materials herein described shall comply with all applicable federal, state, county, health, and local laws, ordinances, rules and regulations, and all other local authorities having jurisdiction and shall be subject to the approval of these authorities, notwithstanding anything in these specifications to the contrary. In addition, all work and materials to be provided under this Section of the Specification shall conform to the applicable requirements of the National Board of Fire Underwriters Standards, and the National Fire Protection Association Standards; special reference is made to NFPA 13, Standard for the Installation of Sprinkler Systems, and NFPA 14, Standard for the Installation of Standpipe and Hose Systems."

Question #124

Will the bid date be extended pending answers to the clarification questions?

Answer #124

The bid opening has been extended by Addendum #4 and #5.

Question #125

Do you know if the demolition of existing ceilings will be addressed in the addendum? There is nothing on these documents that says we are responsible to demo the existing ceilings.

Answer #125

See Notes 'A' & 'M' on sheet G-002.

Question #126

Specification section 334510, specifies a graywater pump system. The electrical drawings do not indicate a power connection to the graywater pump system. Please clarify.

Answer #126

See the lower left corner of Sketch SKEM-100, in Addendum No. 2 dated 12/08/2011, for basement revision indicating power connection to gray water pump system.

Question #127

Specification section 2633535, specifies the Uninterruptible Power Supply (UPS). The specification does not address the duration of battery backup, please clarify.

Answer #127

The duration of battery backup for the UPS system will be 15 minutes.

Question #128

Specification section 088000, paragraph 2.10-c, specifies glass type GL-6. The electrical drawings do not indicate a power source for this glass. Please clarify.

Answer #128

A 120 Volt, 20 Amp circuit will be provided for each location.

Question #129

Doors 104.1, 104.2, 106, 111, 112.1, 112.2, 113, & 114 are all located in demountable partitions as shown in the room elevations on drawing A408, however the door schedule calls for doors & hardware that are normal construction. What is the correct door and hardware type for these doors?

Answer #129

See Item D-A44 (IX) in Addendum No.2.

Question #130

1.2.A.1.c & 1.2.A.2.b – Are key switches or card read provisions required in the hall stations? If card readers, are the provisions to be integral?

Answer #130

See Item D-A13 (I) in Addendum No.2.

Question #131

1.2.A.2.c. – Are new car stations to be provided, or will card readers be surface mounted on the existing car stations?

Answer #131

See Item D-A13 (I) in Addendum No.2.

Question #132

2.3.B calls for new Demand Based Dispatching and 2.3.C calls for new Destination Based Dispatching, what is required? If Destination Based Dispatching is required, will a Destination interface be acceptable on the existing controllers as they were installed 4 years ago. NOTE – Specified control systems would be proprietary.

Answer #132

See Item D-A13 (III) in Addendum No.2.

Question #133

Specification section 00100, paragraph 1.01-B.b, specifies the Furniture and demountable office partitions are not in the work. The electrical drawings indicate junction boxes at various locations which should be for the demountable office partitions. Will the demountable office partitions be pre-wired? Who is responsible to make the final electrical connection to the demountable office partitions if they are pre-wired?

Answer #133

Although there is no specification section 00100 in order to reference this question, all wiring and connections to the junction boxes from the demountable partitions or systems furniture will be done in a separate Owner contract.

Question #134

Finish Hardware specification section 087100, sets 32 and 39 for the bronze doors, direct the contractor to the door manufacturer for the balance of the door hardware, but the door specifications, section 081140, direct us to refer to the hardware schedule for the required hardware. When will the list of the required hardware for these doors be published?

Answer #134

Finish Hardware Set 39 – Refer to Specification Section 084126, Part 2.4, for ALL-GLASS ENTRANCES. Finish Hardware Set 32 – DELETE all references. The following list are the revised FINISH HARDWARE SETS for the followings doors...

DOOR #	HW SET #
119.1	39
122B	32C (added, see Question 51)
405	39
705	39
803.2	39
805.2	39 (Door incorrectly labeled on A-108. Door 805.2 is the double doors between East Corridor 801 and Open Office 805)
X05	39

Question #135

Drawing C-001 only shows two small areas of new sidewalk at the parking lot islands. It does not show any new sidewalk around the building. Is this correct?

Answer #135

The scope of proposed sidewalk work has greatly increased from previous plans. Refer to C-001 Site Plan in this Addendum.

Question #136

What are the 143 small circles on drawing C-001? They appear to be some type of bollard, but are not designated (and appear larger than a normal bollard)?

Answer #136

There are bollards proposed as a security perimeter. Refer to C-001 Site Plan, in this Addendum for current locations. A detail of the proposed bollards is provided on C-007 Detail Sheet,

Question #137

Landscape Plan L-002 notes a retaining wall at the dock? Is there a retaining wall?

Answer #137

An 18" wall is proposed on each side of the loading dock ramp and is shown on the Site Plan, C-001, in this Addendum. The Civil drawings provide a detail for the 18 "wall in the loading dock area. Refer to C-007 Detail Sheet.

Question #138

What are the limits of new / existing curbs?

Answer #138

Refer to C-001 Site Plan in this Addendum.

Question #139

There will be a substantial number of workers on this project. Will provisions be made for remote parking / shuttle service?

Answer #139

The State has a parking shuttle that provides shuttle service between the Laidley Field Parking area and the campus. This shuttle runs all day during the legislative session and during morning and evening hours during the remainder of the year. Since most contractors have standard hours, they elect to have employees meet at the parking area and shuttle personnel and tools on a company vehicle.

Question #140

Site Demolition Plan CD-001 lists Phase One and Phase Two. What are the dates for these phases?

Answer #140

Refer to CD-001 Site Demolition Plan in this Addendum. Phase Two refers to existing and temporary parking lot pavement to remain in service and undisturbed as long as possible. Dates and durations will be determined through discussions between the Contractor, Engineer and Owner

Question #141

Site Demolition Plan CD-001 shows 2 trees to be removed. Tree Protection Plan L-001 shows 45 trees to be removed. Which do we do?

Answer #141

Trees to be removed are shown on drawing L-001.

Question #142

The civil drawings are missing a substantial amount of information. Will they be re-issued?

Answer #142

Earlier plans were based on a smaller scope of work and have been greatly expanded and improved.

The most up-to-date Civil Drawings issued with this Addendum, unless noted otherwise, are as follows:

- CD-001 Site Demolition Plan
- C-001 Site Plan
- C-002 Stormwater Pollution Prevention Plan
- C-003 Site Utility Plan
- C-004 Grading Plan
- C-005 Detail Sheet, Addendum # 2, dated 12/08/10
- C-006 Detail Sheet
- C-007 Detail Sheet

C-008 E&S Detail Sheet, Addendum # 2, dated 12/08/10

C-009 E&S Detail Sheet, this Addendum

Question #143

Are we to use the structural design for concrete walls/footings on the landscape drawings, or will these be provided by the civil engineer.

Answer #143

Landscape drawings include construction section for landscape elements, granite seat/planter walls, granite retaining walls and steps.

Wall designs provided by the Landscape Architect will be used where indicated on their drawings. The Civil drawings provide a detail for the 18 " wall in the loading dock area. Refer to C-007 Detail Sheet, this Addendum.

Question #144

When is the last day for questions?

Answer #144

The new technical questions deadline, as indicated in Addendum #2, is 2/9/2010.

Question #145

Drawings include sign schedule as part of door schedule and there are typical sign elevations. Are the interior signs part of this bid package? I ask the question because I cannot find a spec. for these signs in the spec. book. Please clarify.

Answer #145

Yes, the interior signage is part of this bid package. See Item S-A12 in Addendum No.2.

Question #146

S102 states typical framing floors 2-8, should this be 2-6? 7th and 8th floors are smaller plates, please advise what is required at the 7th and 8th floors.

Answer #146

The floor plates are different on the 7th and 8th floors, but the required construction as defined on Sheet S-102 does not occur in the areas that are different. Therefore, no change to Sheet S-102 is required.

Question #147

L-002 provide design information for loading dock retaining wall shown on this drawing, no provided on civil drawings as indicated

Answer #147

The Civil drawings provide a detail for the 18 " wall in the loading dock area. Refer to C-007 Detail Sheet, this Addendum.

Question #148

AD-102, detail 9/A506, does this detain apply to DMV pre function room 122 on the first floor. The drawings indicate that the existing marble panels are to remain in place. Due to this note, I assume that demo and spray foam in the chase is not required in room 122. Please advise if the exterior wall granite is to be removed and reinstalled to perform this work.

Answer #148**Doors 121 & 123**

REVISE Hardware Set 32B as follows:

1	SET	PIVOT	L147	606	RIX
1	EA	INT.PIVOT	M19	606	RIX
1	EA	LOCKSET	L9070R 93N	606	SCH
1	EA	CLOSER	3131B	606	LCN

Door 122B

ADD Hardware Set 32C as follows:

2	SET	PIVOT	L147	606	RIX
2	EA	INT.PIVOT	M19	606	RIX
2	EA	PUSH BARS	10	606	ROC
2	EA	PULLS	550DT	606	VON
2	EA	CLOSERS	3131B	606	LCN

Question #149

A101, provide details of AV rack in meeting rooms 113 & 114, if required to be included in our bid.

Answer #149

See Item D-A7 (III & IV) in Addendum No.2.

Question #150

A101, no elevations are provided for rooms 113 & 114, as well as the east walls of rooms 104 & 112, we are assuming no trim or acoustical panels on these walls unless otherwise notified.

Answer #150

Provide acoustical panels on east walls of rooms 113 & 114, similar to 1A/A408 (without niche). No acoustical panels on west walls of rooms 113 & 114, and east walls of rooms 104 & 112.

Question #151

9,17/A511, we are assuming trim applies to the exterior wall only, unless indicated otherwise by elevations (as in room 119). Wood base will be included in other rooms as schedule on the finish schedule. Unless directed otherwise the 3 ½" chair rail at window height will only be included at the exterior wall and where indicated by the elevations provided in the documents.

Answer #151

Correct.

Question #152

Provide construction details/section of the line of bollards the extend east and west from the project site. Is there a concrete curb or just concrete paving.

Answer #152

A detail of the proposed bollards is provided on C-007 Detail Sheet, this Addendum.

Question #153

A101 states to repair cracks/chips in existing terrazzo floor. As indicated floor is currently covered with carpet and can not be reviewed for pricing or repairs, please advise what repairs are to be included.

Answer #153

Clarification: Sheet A-101, Room 122: Change note "EXIST TERRAZZO FLOOR: REPAIR CRACKS/CHIPS AS NEEDED & REFINISH" to "EXIST TERRAZZO FLOOR TO BE REFINISHED, TYP."

Question #154

A101/A501 shows a new exterior foundation drain and waterproofing system for the existing building. A101 only indicates this work at ½ of the building, and states to refer to the civil drawings. This work is not shown on the civil drawings. Is the new foundation drain required at the eastern half of the building, currently it is not indicated on drawings A101 and will not be included unless notified otherwise.

Answer #154

Clarification: Sheet P-100.1: Change note "P.C. SHALL INSTALL 6" PERFORATED STORM PIPTING ON EXISTING FOUNDATION. G.C. SHALL EXCAVATE AND BACKFILL ENTIRE PERIMETER OF BUILDING (TYP.)" to "P.C. SHALL INSTALL 6" PERFORATED STORM PIPTING ON EXISTING FOUNDATION. G.C. SHALL EXCAVATE AND BACKFILL THE PERIMETER OF BUILDING AS SHOWN. REFER TO CIVIL DWGS TO "

Question #155

A101 basement level slab on metal deck, is not indicated on S100, also the areas of raised new floor slabs are different.

Answer #155

Clarification: Sheet A-100: Change note near column line D1 from "RAISED SLAB ON DECK" to "RAISED CONC SLAB OVER RIGID INSULATION FILL, SEE STRUCT DWGS" (see reissued Sheet S-100, in Addendum No.2 dated 12/08/2010, for revised areas of raised floor slabs)

Question #156

A203 provide construction details for new 1st floor west entrance. Provide structural design for granite plinths.

Answer #156

See reissued Sheet S-400, detail 111/S-400, in Addendum No.2.

Question #157

The existing window reglazing calls for single pane low-e coating, will the withstand repeated window cleaning, coating can no be covered by a warranty. (sic)

Answer #157

We are unable to determine what this question is asking. Is he suggesting that we modify the warranty terms specifically for the glazing?

The low e pyrolytic coating to be on the second surface (interior side).

Question #158

S101 does not show the foundation/base for the new granite walls (4' wide) that are to be built in front of (and attached to) the existing north areaways.

Answer #158

See revised Sheet S-101 and Sheet S-401 issued with this Addendum.

Question #159

A401, north lobby 115, clarify terrazzo floor is existing to remain, no specifications have been provided for new terrazzo flooring.

Answer #159

Clarification: Sheet A-401: Change keynote from "9.8 – TERRAZZO FLOORING" to "9.9 – TILE"

Question #160

Clarify who is providing the demountable partitions and doors at the first floor meeting rooms, typically the partition supply also includes doors/frames/hardware that are built into the partition. I assume these are by others as listed in the summary of work.

Answer #160

See Sheet G-002 in Addendum No.2, note 'D' under GENERAL NOTES.

Question #161

Provide specification for benches shown on landscaping drawings

Answer #161

See specifications section 129310 Site Furnishings.

Question #162

11130 Summary of Asbestos, please confirm that our bid is to be based on these quantities

- a. No window caulking has been identified, based on the age of the windows I am surprised.
- b. Report provided lists fluorescent bulbs and PCB ballasts not identified in 111310 Summary.

Answer #162

The two reports noted in Specification 011000, paragraph 1.1.B.1, shall govern the hazardous material remediation scope of work.

Question #163

Please clarify exactly what testing and inspection is to be included in the bid, most of the individual spec sections state "owner will engage an independent testing and inspection agency", unless directed otherwise we will include testing/inspections as identified in the individual spec sections unless indicated as being performed by the owner.

Answer #163

See Section 014000 QUALITY REQUIREMENTS, paragraph 1.9 for Testing and Inspection engaged by Owner AND Addendum No.6.

Question #164

85145-1.2 Bronze window repair, states to include "repair and replacement of all missing and damaged parts", as does the note on drawing A603. Typically on the historical restoration, an inventory/review of the windows has been performed by the designer and list of required repairs is provided by the designer to be included in the bid. Please provide a list of repairs by/per window they need to be included in the bid. Or provide a general list of repairs (slash placements, hardware, etc) with a bid quantity of each and a unit price for adds and deducts.

Answer #164

See Item S-A5 (III) in Addendum No.2.

Question #165

96816 provide spec information for section 2.1 information not provided

Answer #165

See attached Spec Section 096816 included in this Addendum.

Question #166

102113 which rooms receive the stainless steel units

Answer #166

Locations: First floor restrooms C.WRR & C.MRR.

Question #167

A404-waste receptacle and changing station are listed by the GC, however neither is specified in 102800.73

Answer #167

Clarification: Specification 102800, Paragraph 2.2; add the following subparagraphs:

- F. Waste Receptacle (Under lavatory, basement floor and 2 through 8 floor restrooms):
 1. Basis-of-Design Product: 16 1/2" square x 27" tall .
 2. Mounting: Freestanding.
 3. Capacity: 25 gallon.
 4. Material and Finish: Plastic, beige.

G. Waste Receptacle (Under lavatory, first floor restrooms):

1. **Basis-of-Design Product:** Rubbermaid / United Receptacle B1414SS Open Top Small Clean Room Receptacle.
2. **Mounting:** Freestanding.
3. **Capacity:** 14 Gallon Capacity - 14" Sq. x 21" H.
4. **Material and Finish:** Stainless steel legs with plastic buttons protect floors.
5. **Liner:** Reusable plastic liner.

H. Waste Receptacle (family restrooms):

1. **Basis-of-Design Product:** Rubbermaid / United Receptacle CC16SSS Metallic Designer Line Open Top Waste Receptacle
2. **Mounting:** Freestanding.
3. **Capacity:** 15 Gallon Capacity - 15" Dia. x 28" H
4. **Material and Finish:** Satin Stainless Steel.
5. **Liner:** Galvanized steel inner liner.

I. Baby Changing Horizontal Station

1. **Basis-of-Design Product:** Koala Kare kB110-SSWM
2. **Mounting:** Surface Mount
3. **Description:** Stainless steel clad surface mounted horizontal baby changing station with polyethylene interior.
4. **Material and Finish:** Stainless Steel.

Question #168

Per spec section 10-21-13, Toilet Compartments, there are two types of compartments specified: stainless steel and solid polymer. Neither the drawings nor the specs show which type gets installed and where. Please provide the locations for the two types of compartments to be installed.

Answer #168

1. **Specification 102800, Paragraph 2.2; add the following subparagraph:**
 - J. **Locations: First floor restrooms C.WRR & C.MRR**
2. **Specification 102800, Paragraph 2.3; add the following subparagraph:**
 - H. **Basement and floors 2 through 8, rooms C.WRR & C.MRR**

Question #169

Drawing AD-111 Under Duct Demolition Floor plan – What happens to these ducts? Are they removed and the floor patched?

Answer #169

No, refer to the note on First Floor – Under duct Demolition Plan, Sheet AD-111.

Question #170

Drawing A-100 Waterproofing and Foundation Drain – Foundation drain starts at Column Line 6 and continues around to new sump. Is it the intent to waterproof and install foundation drain around the entire building?

Answer #170

No, just the areas indicated.

Question #171

Question #92 in Addendum #2 requested a specific number of days that the State can hold the bids, This request is a standard question ask to (us the GC's) from our bonding companies. Please respond again choosing the maximum number of days from the bid date that the bond would be good for.

Answer #171

By law, there is no limit to the number of days for which the State may hold bids while an award is processed. The bid process is usually completed within 30 to 60 days, but in some cases bids may be held longer.

Question #172

What is the construction of stairs LP.ST 1.....steel or concrete? We cannot find a detail in the drawings?

Answer #172

Provide metal-pan stairs per Specification 055100.

Question #173: Substitution Request (no literature attached)

We would like for the engineer to consider allowing for the use of the following manufacturers for the WV State Capitol Building #3 project:

- Fan Coil Units: International Environmental Corp. (IEC)
- Hydronic Terminal Heat: Vulcan or Modine
- Computer Room Units: Compu Aire
- Heat Recovery Units: Buffalo Air Handling
- Standard Air Handling Units: AAON
- Mini-Splits: Sanyo

Answer #173

They are acceptable if they meet the specifications.

Question #174

In reference to Acoustical Ceiling, Logix System:

- 1) Are the metal panels to be recessed;
- 2) Are the 6' Tees to be utilized in this application between the mains, if so are we to use the reveal tees?

Answer #174

Refer to Addendum No.6, Item S-A22 – revised specification 095113 “ACOUSTICAL PANEL CEILINGS” & Item D-A55 & D-A56 for revised typical reflected ceiling plans.

Question #175

87400 In Ground Swing Door Operators, issued in Add#2 not reference in addendum narrative

Answer #175

This was modified by the revised section in the Addenda. A further reference is not required.

Question #176

12200- Unit Price 2B, clarify replace 50% of Bldg 3 interior marble wall panels. Should this be "wall panel joints" and not the actual panel?

Answer #176

Correct. 'Joints', not 'Panels'. Revised in Addendum No.6.

Question #177

The sketches issued in addendum #2 and posted to the purchasing web site are formatted for 11x17 printing, printing them this size results in a sketch that is not to scale.

Answer #177

Refer to the note at the beginning of Addendum No.6. The final size of the drawings sheets is intended to be 24"x36" printing them at this scale should correct scale issues. Note that some sketch files should be printed at 8½"x11".

Question #178

Drawing don't distinguish between 2/C007 Removable bollards, and 3/C007 concrete bollards. Provide locations of each. Provide performance spec for each or manufacturer and model # for basis of design

Answer #178

The revised plans in Addendum #6 should clarify this question. The removable bollards and previous detail are removed from the plans. Hydraulic bollards are now proposed at two locations on the plans with locations and details provided.

Question #179

S102, states typical framing floors 2-8, should this be 2-6 ? 7th and 8th floors are smaller plates, please advise what is required at the 7th & 8th floors

Answer #179

Correct, floors 7 & 8 are smaller. This has been revised in the addendum.

Question #180

AD-102, detail 9/A506, does this detail apply to DMV prefunction room 122 on the first floor. The drawings indicate that the existing marble panels are to remain in place. Due to this note, I assume that demo and spray foam in the chase is not required in room 122. Please advise if the exterior wall granite is to be removed and reinstalled to perform this work

Answer #180

Refer to this Addendum, Item D-A50 (IV).

Question #181

A101 states to repair cracks/ chips in existing terrazzo floor. As indicated floor is currently covered with carpet and cannot be reviewed for pricing or repairs, please advise what repairs are to be included

Answer #181

Refer to this Addendum, Item D-A53 (II).

Question #182

102113 which rooms receive the stainless steel units

Answer #182

First floor restrooms, refer to specification 102113, part 2.2.J.

Question #183

A404- waste receptacle and changing station are listed by the GC, however neither is specified in 102800

Answer #183

Refer to this Addendum, Item S-A25 (I).

Question #184

11130 Summary of Asbestos,

- a. No window caulking has been identified, based on the age of the windows I am surprised
- b. Report provided lists fluorescent bulbs and PCB ballasts not identified in 11130 Summary,

Answer #184

The window caulking tested negative. The report shall govern for quantities and locations.

Question #185

Section 85145 3.10

Its state to use Sponge Jet Micro Abrasive Blasting for cleaning the Bronze windows. Can a different type of cleaning media be used in lieu of sponge jet?

Answer #185

JOS cleaning may be used in lieu of Sponge Jet. These cleaning requirements were based on WV's past experience in restoring other bronze windows on the Main Capitol. Other cleaning methods and/or media may be considered and tested using Mockups, but if the cleaning media in question is not satisfactory, the contractor must have means to use the approved systems.

Question #186

Section 85145 1.2 A 1 e

It states to clean all mail chutes all floor. Are the mail chutes in the existing doors on all floors are included with this?

Answer #186

No. The statement was intended to refer to the floor-to-floor mail chutes in the elevator lobbies, not the mail chutes in the room doors. There are no existing doors with mail chutes that are being reused in the project.

Question #187

Will there be an addendum to cover Division 27 section of this project?

Answer #187

Cabling under this division will be handled by the West Virginia Office of Technology.

Question #188

Will the electrical contractor be responsible for pulling, terminating and testing of Division 27?

Answer #188

Cabling under this division will be handled by the West Virginia Office of Technology.

Question #189

Will the electrical contractor be responsible for supplying Division 27 material?

Answer #189

Cabling under this division will be handled by the West Virginia Office of Technology. Raceways will be handled by the electrical contractor based on the locations shown on the plans.

Question #190 – Substitution Request (no literature attached)

Will Eaton/Cutler Hammer be an acceptable substitute for the gear? Attached you will find a Eaton/Cutler Hammer bill of material for supporting documentation.

Answer #190

Eaton is an acceptable manufacturer as long as the products meet specification requirements.

Question #191**Section 262820 – Load Break Switches**

Drawing E600 states unfused switch, section 2.1A & E state to provide a fusible switch, which is correct? Fused or unfused?

Answer #191

This switch shall be fused.

Question #192: Substitution Request (no literature attached)**Section 263214 – Generator Load Bank**

Section 1.9C – Will Avtron be considered as a manufacturer for the load bank?

Answer #192

Avtron is acceptable if it meets the specifications.

Question #193**Section 263213 – Emergency Generators**

Section 2a5 – States to provide Gates 908D start batteries capable of delivering the manufacturer's recommended minimum cold-cranking amps required at 0 deg. F. Section 2.7C states to provide a lead-acid storage battery set of the heavy-duty diesel starting type. Is it ok to provide the manufacturer's heavy duty battery instead of the Gates 908D?

Answer #193

The manufacturer's heavy duty battery is acceptable if it meets the same specification as the Gates 908D.

Question #194**Section 263213 – Emergency Generators**

Section 2a11 – States to provide two (2) engine block heaters (3,000 watts each); Caterpillar's standard is to use one (1) 3,000 watt Jacket Water Heater that circulates the coolant. Will this be acceptable?

Answer #194

Provide manufacturer's standard design.

Question #195:**Section 263213 – Emergency Generators**

Section 2.6A2 – Will a Universal or GT Exhaust silencer be acceptable as long as they meet the spec? Is there a specific db reduction needed for the silencer?

Answer #195

This silencer is normally supplied by the generator supplier. Universal or GT Exhaust are acceptable if they meet the specification for the Harco supercritical grade.

Question #196: Substitution Request (no literature attached)**Section 263600 – Transfer Switches**

Section 1.3A – Will Caterpillar/ISO be an acceptable switch manufacturer?

Answer #196

They are acceptable if they meet the specifications.

Question #197**Section 263353 – Uninterruptible Power Supply (UPS)**

What is the ride through time for the batteries, I do not see it in the specs?

Answer #197

15 minutes.

Question #198**Section 263353 – Uninterruptible Power Supply (UPS)**

Section 1.6 1 - At 1500 meters a derate of .85 will need to be applied to the rated output level. Is this acceptable since it will be at a level below 250 meters?

Answer #198

Yes.

Question #199**Section 263353 – Uninterruptible Power Supply (UPS)**

Section 2.2 – UPS Standard features

The Cat UPS 220 does not have an IGBT rectifier. It is a fully controlled six-SCR Graetz bridge protected by ultra-fast fuses, is this acceptable?

Answer #199

No, this is not an approved equal.

Question #200**Section 263353 – Uninterruptible Power Supply (UPS)**

UPS System Configuration features

The Caterpillar UPS 220 does not have multiple UPMs. The UPMs are paralleled to meet the 225 rating while ours is a single UPS with less likelihood of failure. Is this acceptable?

Answer #200

No, this is not an approved equal.

Question #201**Section 263353 – Uninterruptible Power Supply (UPS)**

Do you want a bypass rated at more than the unit? For a second UPS in parallel, a system bypass module will need to be purchased, is this needed now or for future use?

Answer #201

No provisions for a second future UPS will be provided.

Question #202: Substitution Request (no literature attached)**Section 263215 – Generator Underground Fuel Tank and Day Tank**

Section 2.3 – Is Pryco an acceptable manufacturer of the day tank.

Answer #202

The fuel and day tanks are generally supplied by the generator supplier. Pryco is an acceptable equal.

Question #203: Substitution Request

Light Fixtures and Building Controls, per email from Robert Kimball

Answer #203:

The fixtures and building controls submitted are acceptable.

Question #204:

Questions on Surveillance cameras and systems.

Answer #204:

- **Fixed cameras, what is the lens specifications for these? (I do understand there are a few 360 degree cams).**
 - Surveillance system is not part of the current bid package. There will be a separate bid package for surveillance systems at a later date.
- **The lens specs on the PTZs, there are usually a few variables/**
 - Surveillance system is not part of the current bid package. There will be a separate bid package for surveillance systems at a later date.
- **Specs for the recording device (s) will this be NVR DVRs, what is the video storage requirement, will they be located on site or in the security office at the capitol?**
 - Surveillance system is not part of the current bid package. There will be a separate bid package for surveillance systems at a later date.
- **Reader specs: type/technology, with or without keypad**
 - must be compatible with current state-wide issued cards - Casi Rusco Proxlite and Entrée.
- **There are 2 "Pedestal" Readers. Are these Long Range?**
 - yes - they should be long ranger readers
- **There are 4 "Elevator" Readers. Are they doing elevator control?**
 - yes - floor selection will be based on user credential authorization
- **I see some keypads. Are those intrusion keypads, to arm/disarm intrusion panels?**
 - these are keypads that will be used to gain access into the conference rooms
- **It looks it is an add-on. What software is at the Head-End?**
 - State-wide system and head-end is based on GE Facility Commander. Ingersoll Rand Schlage system is require to interface with door hardware and must interface with GE head-end system and database.
- **In the drawing I see CAT6 cable going to each camera. It means they are IP. Please verify?**
 - Surveillance cameras are intended to be IP devices, however these are not part of this bid package. There will be a separate bid package for surveillance systems at a later date.

- **Camera specs: Wide Dynamic Range or Regular, lens type, resolution**
 - Surveillance system is not part of the current bid package. There will be a separate bid package for surveillance systems at a later date.
- **DVR: recording rate, resolution, retention**
 - Surveillance system is not part of the current bid package. There will be a separate bid package for surveillance systems at a later date.

Question #205

The "Discharge Identification Barrier" specified in section 104500. Where are they?

Answer #205:

The Discharge Identification barriers are located in the stairwells and are used to direct traffic out the exit door at the level of exit discharge. Note that the west stairwell barrier is located on the intermediate landing between the first and second floors.

Question #206

The answer to Question #19 in Addendum # 2 is not clear. Do we own any work related to the demountable partitions in Rooms 104, 106, 111, 112, 113, and 114? The answer to question #97 further confuses this issue, as it states "The General contractor will be responsible for installing only demountable partitions and furniture included under his contract". Would you please clarify exactly what our responsibility is with regard to demountable partitions and furniture.

Answer #206:

There are a few demountable partitions that must be provided with the construction contract. These are specified, the locations shown on the drawings and will be installed by the General Contractor. A separate furniture contract will be bid later by the Owner. This furniture contract will include installation by the furniture contractor. The General Contractor will only be responsible for installing those demountable partitions bid under the Construction contract.

Question #207

Spec 102113 calls for both stainless steel and also solid polymer toilet compartments. The drawings do not show which compartments are stainless steel and which are solid polymer. Would you please clarify.

Answer #207:

See response to Question # 166 and #182.

Question #208

Spec Section 033000, 2.10, A& B reference repair underlayment and overlayment. What is our scope of work with regard to underlayment and floor leveling.

Answer #208:

Underlayment and overlayment will be required to provide a suitable substrate for carpeting and other floor finishes. This section was obviously included to incorporate these materials. Due to the

nature of demolition and remodeling contracts, exact areas cannot be provided at this time but must be assumed by the contractor.