

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES 1 7
2. AMENDMENT/MODIFICATION NO.: 0003	3. EFFECTIVE DATE 19 DEC 2003	4. REQUISITION/PURCHASE REQ. NO. 96311M-3301-6252	PROJECT NO. (If applicable)	
6. ISSUED BY USAED-Baltimore District Contracting Division P.O. Box 1715 Baltimore MD 21203-1715	CODE W912DR	ADMINISTERED BY: CODE		
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)			(x)	9A. AMENDMENT OF SOLICITATION NO. W912DR-04-B-0004
			X	9B. DATED (SEE ITEM 11) 28 NOV 03
				10A. MODIFICATION OF CONTRACT/ ORDER NO.
				10B. DATED (SEE ITEM 13)
CODE	FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ___ is extended X is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
(a) By completing Items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER No. ITEM 10A
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR43.103(b)
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ___ is not, ___ is required to sign this document and return ___ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

Water Quality Lab Renovations, Washington Aqueduct Division, Washington, DC

Solicitation

Section 00100 – Contract clause 52.236-27, entitled “Site Visit (Construction) (Feb 1995)

An additional site visit is scheduled for Monday, December 22, 2003 at 8:30 a.m. at the project site, 5900 MacArthur Blvd., NW, Washington, DC. POC: Nathan Cole, 202-764-2776

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
BY _____ (signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)	

SPECIFICATIONS:

(1) TABLE OF CONTENTS: Delete the Table of Contents, as originally issued, and substitute therefor the attached revised Table of Contents, dated DEC 17, 2003.

(2) Section 01320, Paragraph 3.10.2.1: Delete this paragraph, as originally issued and substitute therefor the following new paragraph 3.10.2.1:

"3.10.2.1 Dalecarlia

Temporary sample taps at Dalecarlia are not required because the Operators Lab sample taps are required to remain available until the new laboratories are fully functional. Contractor shall provide temporary sample taps if service is interrupted by the contractor's operations."

(3) Section 01330, SUBMITTAL REGISTER: Delete the Submittal Register, as originally issued and substitute therefor that attached revised Submittal Register, dated DEC 17, 2003.

(4) Section 01510, Paragraph 2.3.3: Revise the first sentence in this paragraph to read: "1. Contractor shall retain the services of qualified, factory trained and certified representatives for each piece of equipment indicated on Plate 41 as to be moved by manufacturer."

(5) Section 01510, Paragraph 2.2.4.G,: At the end of this paragraph add: "7. Existing fume hood base cabinetry will be relocated with the fume hood."

(6) Section 01562: Delete this section in its entirety and substitute therefor the attached specification Section "01561, ENVIRONMENTAL PROTECTION".

(7) Section 02220, Paragraph 3.3.5: Delete this paragraph and substitute therefor "3.3.5 Omit"

(8) Section 02821, Paragraph 3.2: Delete this paragraph, as originally issued, and substitute therefor : "3.2 OMIT".

(9) Section 02821, Paragraph 3.3.1: Revise this paragraph to read:

"3.3.1 Posts for Chain Link Fence

Posts shall be set plumb and in alignment. Core drill posts into existing concrete floor to a depth of 6". Drilled hole shall be no larger than the outer post diameter plus 1/8"."

(10) Section 08120: Delete this section, as originally issued, and substitute therefor the attached revised section "08120, ALUMINUM DOORS, FRAMES AND VIEW WINDOWS", dated DEC 17, 2003.

(11) Section 08711, Paragraph 3.6 HARDWARE SCHEDULE: Delete this paragraph

(12) Section 09510: Immediately after this section insert the attached new Section: "09650 RESILIENT FLOORING".

(13) Section 10100 Paragraph 1.3: Make the following changes:

(a) Before "SD-03 Product Data" Insert the following:

"SD-02 Shop Drawings

AV System, G

Submit detailed drawings showing the location, connection and functionality for the proposed equipment, cabling, interfaces, switches, jacks and outlets for all Audio Visual Components."

(b) Change "Presentation Board;" to read "Presentation Board; G"

(c) Change "Audio Visual Components;" to read "Audio Visual Components; G"

(14) Section 11601, Paragraph 2.4.C.: Delete this paragraph

(15) Section 11601, Paragraph 2.4.E.: Delete this paragraph.

(16) Section 13280: Immediately at the end of this section add the following attached items:

- Table 1
- Sketches 13280-1, 13280-2, 13280-3
- Setup Detail Sheets 2, 3, 4, 9A, 9B, 9C, 14, 16, 17, 18, 20, 21
- Response Action Detail Sheets 31, 44, 57

(17) Section 15400, Paragraph 2.11: Immediately after this paragraph insert the following new paragraph 2.12:

"2.12 POINT OF USE WATER PURIFIER

Point of use water purifier shall be a 120V unit rated for 1 liter/minute of flow and producing a Type I, 18.2 Mega-Ohm (cm) ultra pure water quality with less than 1 - 5 ppb TOC and less than 0.001 EV/ml pyrogen levels. The purifier shall be comparable to Millipore Milli-Q Gradient A10, model ZMQS6VFT1."

(18) Section 015895 Paragraph 2.15.6: Remove "Section 07600 SHEET METALWORK, GENERAL" and replace with "Section 10201 METAL WALL LOUVERS"

DRAWINGS:

(19) Plate 3, LEGEND: Revise the Legend in accordance with attached Sketch SK-1, dated 17 DEC, 2003.

(20) Plate 3, Trailers north of "TEMPORARY LAB TRAILERS": Change "EXISTING CEO TRAILER" to read "PROPOSED CORPS OF ENGINEERS TRAILER" and "PROPOSED CEO INSPECTOR'S TRAILER" to read "PROPOSED CONTRACTOR'S TRAILER".

(21) Plate 3: Add the following note to this plate:

"END OF PROJECT NOTE:

AT THE END OF THE PROJECT THE TEMPORARY LAB TRAILERS AND CONSTRUCTION TRAILERS SHALL BE REMOVED AND DISPOSED OF. ALL UTILITIES SHALL BE CUT AND CAPPED A MINIMUM OF 12" BELOW GRADE. THE AREA SHALL THE BE REGRADED AND SEEDED TO ITS ORIGINAL CONDITION. LIKewise, THE CONTRACTOR'S STORAGE AREA AND ANY OTHER AREA DISTURBED BY THE PROJECT SHALL BE RESTORED TO ITS ORIGINAL CONDITION."

(22) Plate 5, LEGEND: Revise the Legend in accordance with attached Sketch SK-2, dated 17 DEC, 2003.

(23) Plate 5, NOTES, Note #2: Revise this note to read:

"2. CONNECT 1 1/4" WATER TO EXISTING 8" WATER BY WET TAP USING NEW 1 1/4" CORPORATION STOP AND SADDLE."

(24) Plate 5, SITE PLAN, Water line to the temporary lab trailers: Change "1/4"" to read "1 1/4""

(25) Plate 6, FINISH SCHEDULE: In the column headed CEILING replace "SAPC" with "ACST TILES" in all rows.

(26) Plate 6, LAB CABINERY, TYPE B: Replace "BASE WITH DOORS TO FIT SPACE" with " BASE WITH DOORS TO FIT SPACE, MULTIPLE CABINETS MAY BE REQUIRED. MAX CABINET WIDTH 5'-0"."

(27) Plate 7, Title block: Change drawing category from "MECHANICAL" to read "TEMPORARY TRAILER".

(28) Plate 8, Title block: Change drawing category from "PLUMBING" to read "TEMPORARY TRAILER".

(29) Plate 11, PUMPING STATION OFFICE HVAC NEW WORK: Revise this plan in accordance with attached sketch SK-3, dated 17 DEC, 2003.

(30) Plate 12, NEW WORK NOTES: Immediately below Note #5 add the following new Note #6:

"6. SEE FINISH SCHEDULE PLATE 34 FOR ALL FINISHES."

(31) Plate 12: Add the following mechanical notes to this plate:

"MECHANICAL NOTES:

1. DISCONNECT EXISTING PNEUMATIC CONTROL TUBING AND CONTROL CONDUCTORS, 3/4" CHS & CHR, 3/4" HWS & HWR, 3/4" CONDENSATE DRAIN.

2. EXTEND TUBING, CONDUCTORS, AND PIPING, AND RECONNECT.

3. REPLACE THE 4 SHUTOFF VALVES.

4. CORE-DRILL NEW OPENINGS IN FLOOR SLAB.

5. PATCH FLOOR AND WALL TO MATCH EXISTING.

6. FLOOR NORTH OF COLUMN LINE 1 IS AN OVERHANG. PIPING IS BELOW SLAB AT OVERHANG, ACCESSIBLE THROUGH THE SOFFIT. CUT AND PATCH SOFFIT TO MATCH EXISTING.

7. REFER TO GENERAL MECHANICAL NOTES ON PLATE 58."

(32) Plate 13, DEMOLITION & NEW WORK ELECTRICAL: Revise this plan in accordance with attached sketch SK-4, dated 17 DEC, 2003.

(33) Plate 18: Add the following notes to this plate:

"OPERATORS LAB/ KITCHEN DEMOLITION NOTES

- A. REMOVE EXISTING VCT FLOORING
- B. REMOVE EXISTING VINYL BASE"

(34) Plate 18, CONTROL AND TRAINING ROOMS - DEMOLITION NOTES, NOTE #5: In the first sentence of this note change "THE OWNER" to read "WA".

(35) Plate 19, Chlorinator Room General Notes, Note 4: Revise this note to read:

"4. THERE ARE APPROXIMATELY 80 CRACKS, HOLES, PENETRATIONS AND SIMILAR IMPERFECTIONS IN THE CHLORINATOR ROOM WALLS, FLOOR AND CEILING VARYING IN SIZE UP TO 18-INCHES. EACH SUCH IMPERFECTION MUST BE GROUTED. IF THE OPENING INCLUDES PIPE, THE ANNULAR SPACE MUST BE FILLED WITH A LINK-TYPE MECHANICAL GASKET AND THEN GROUTED."

(36) Plate 21, GENERAL NOTES, Note #4: Replace this note with the following:

"4. CONSTRUCTION ACCESS THROUGH THE LOGGIA OF THE CHEMICAL BUILDING VIA STAIR NO 1 SHOULD BE LIMITED. PRIOR TO MAKING USE OF THAT ACCESS, ALL FLOOR TILES, STAIRS AND HANDRAILS TO REMAIN ON THE FIRST AND SECOND FLOORS SHALL BE PROTECTED BY ¾" PLYWOOD TO PREVENT DAMAGE."

(37) Plate 22, TRAINING AND CONTROL ROOM NEW WORK: Revise this plan in accordance with attached sketch SK-5, dated 17 Dec, 2003.

(38) Plate 22, CONTROL AND TRAINING ROOM - NEW WORK NOTES, Note #1: Change this note to read: "1. REINSTALL EXISTING ALUMINUM DOORS WITH REVERSED SWING AS SHOWN IN DRAWING. REINSTALL ALL HARDWARE AND PATCH EXISTING ALUMINUM DOOR FRAME TO MATCH."

(39) Plate 22, CONTROL AND TRAINING ROOM - NEW WORK NOTES: At the end of note 13 add "THE WALL IN THE ANALYZER CLOSET IS CARRIER OF MULTIPLE WIRES. PROTECT THESE WIRES FROM DAMAGE WHILE INSTALLING DRYWALL."

(40) Plate 24: Delete this plate, as originally issued, and substitute therefor the attached revised like-numbered plate with revision #1, dated 17 DEC 03.

(41) Plate 26, LIBRARY ENTRANCE (DETAIL B\24\26 AND SECTION 1\26\26): Revise these items in accordance with attached sketch SK-6, dated 17 DEC, 2003.

(42) Plate 28, TYP LOCKER DETAIL: In note on top of detail change "WP" to read "WR".

(43) Plate 30, HIGH ROOF PLAN: Change detail symbol "6/36/36" to read "6/30/36".

(44) Plate 30, GENERAL NOTES: Immediately below Note #4 add the following new Note #5:

:
"5. DOOR 302 TO BE REPLACED. SEE PLATE 33."

(45) Plate 31: Move detail symbol "G/24/31" from the left of title "DUMBWAITER FIRST FLOOR PLAN" to the left of title "ENLARGED DUMBWAITER FOR BOTH FLOOR PLANS".

(46) Plate 33: Delete this plate, as originally issued, and substitute therefor the attached revised like-numbered plate with revision #1, dated 17 DEC 03.

(47) Plate 34, FINISH SCHEDULE: Make the following changes:

(a) Room 110 CHLORINATOR ROOM: delete this row completely.

(b) Room 200 CONFERENCE ROOM: in the COMMENTS column change "[10]" to read "[9]".

(c) Room CLOSET: in the COMMENTS column change "[11]" to read "[10]".

(48) Plate 34, FINISH NOTES: Revise these notes and add the GENERAL FINISH NOTES in accordance with attached sketch SK-7, dated 17 DEC, 2003.

(49) Plate 35, FIRST FLOOR PLAN: VESTIBULE STAIR NO 2: Revise this plan in accordance with attached sketch SK-8, dated 17 DEC, 2003.

(50) Plate 38, NOTES: Immediately below Note #7 add the following new Note #8:

"8. SEE FINISH SCHEDULE PLATE 34 FOR ALL FINISHES."

(51) Plate 39, DEMOLITION AND NEW WORK NOTES, Note #2: revise this note to read: "2. SAW CUT EXISTING FACE BRICK WITH CARE. INSTALL NEW ANGLE LINTELS. REFER TO SECTION THROUGH NEW OPENINGS ON THIS PLATE. NO PATCHING IS ALLOWED."

(52) Plate 39, AIR INTAKE FOR AHU-8: Delete the detail symbol in front of this title.

(53) Plate 39, AIR INTAKE FOR AHU-8: Change detail symbol "A/39/39" to "C/39/39" in this plan.

(54) Plate 39, SECTION OF SLAB @ AIR INTAKE: Change detail symbol in front of title from "A/39/39" to "C/39/39".

(55) Plate 41: Delete this plate, as originally issued, and substitute therefor the attached revised like-numbered plate with revision #1, dated 17 DEC 03.

(56) Plate 42: Add the following note to this plate.

"NOTE:

FUME HOOD FH-9 SHALL BE PROVIDED WITH CABINETRY MATCHING FH-8. FH-8 CABINETRY IS SHOWN ON ELEVATION C/43/43 ON PLATE 43."

(57) Plate 52: Delete this plate, as originally issued, and substitute therefor the attached revised like-numbered plate with revision #1, dated 17 DEC 03.

(58) Plate 58, GENERAL MECHANICAL NOTES, NOTE 40: In line 8 change the sentence "AHU OUTAGES SHALL BE LIMITED TO 3 DAYS." to read "AHU OUTAGES SHALL BE LIMITED TO 7 DAYS."

(59) Plate 60: Delete this plate, as originally issued, and substitute therefor the attached revised like-numbered plate with revision #1, dated 17 DEC 03.

(60) Plate 63, Plan notes, Note 1: Delete this note and substitute therefor the following new note #1:

"1. CORE DRILL OPENINGS AT ELEVATION 143.33 +/- AND PROVIDE TWO EACH 24" DIA MINIMUM 18 GAGE STAINLESS STEEL DUCTS THRU WALL BELOW GRADE, WITH SEGMENTED RUBBER COMPRESSION SEALS."

(61) Plate 64, FIRST FLOOR - HAVC - NEW WORK: Revise the POLYMER FEEDER ROOM in accordance with attached sketch SK-9, dated 17 DEC, 2003.

(62) Plate 68: Delete this plate, as originally issued, and substitute therefor the attached revised like-numbered plate with revision #1, dated 17 DEC 03.

(63) Plate 83, SECTION AT AHU-2: Change "56x94 OAL" to read "56x96 OAL"

(64) Plate 83, SECTION AT AHU-5: Change "56x54 OAL" to read "56x64 OAL"

(65) Plate 83, SECTION AT AHU-8A: Change "56x39 OAL" to read "56x96 OAL"

(66) Plate 90, PART PLAN - TRAINING ROOM, CONTROL ROOM: Revise in accordance with attached sketch SK-10, dated 17 DEC, 2003.

(67) Plate 94: Delete this plate, as originally issued, and substitute therefor the attached revised like-numbered plate with revision #1, dated 17 DEC 03.

(68) Plate 96, FIRST FLOOR - NEW WORK PLAN: Revise the POLYMER FEEDER ROOM in accordance with attached sketch SK-11, dated 17 DEC, 2003.

(69) Plate 118: GERNERAL NOTES: Correct spelling in the title from "GERNERAL" to read "GENERAL".

(70) Plate 120, BASEMENT PLAN: Revise in accordance with attached Sketch SK-12, dated 17 DEC, 2003.

(71) Plate 132: Delete this plate, as originally issued, and substitute therefor the attached revised like-numbered plate with revision #1, dated 17 DEC 03.

(72) Plate 137, CONFERENCE ROOM LIGHTING PLAN: Delete note 5 from this plan.

ATTACHMENTS:

- 1) Specifications, Table of Contents
 - 2) Section 01330, Submittal Register
 - 3) Section 01561 ENVIRONMENTAL PROTECTION
 - 4) Section 08120 ALUMINUM DOORS, FRAMES AND VIEW WINDOWS
 - 5) Section 09650 RESILIENT FLOORING
- NOTE: Items 6 through 9 below are all in one file designated as "Section 13280 ATTACHMENTS"
- 6) Section 13280: Table 1
 - 7) Section 13280: Sketches 13280-1, 13280-2, 13280-3
 - 8) Section 13280: Setup Detail Sheets 2, 3, 4, 9A, 9B, 9C, 14, 16, 17, 18, 20, 21
 - 9) Section 13280: Response Action Detail Sheets 31, 44, 57
 - 10) Plates 24, 33, 41, 52, 60, 68, 94, 132
 - 11) Sketches SK-1 through SK-12, dated 17 Dec, 2003

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SUBMITTAL REGISTER Revised: DEC 17, 2003

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TITLE AND LOCATION Corps of Eng-Baltimore						CONTRACTOR											
ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH #	GOVT CLASSIFICATION / REVIEWER	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY				MAILED TO CONTR/ DATE RCD FRM APPR AUTH	REMARKS	
						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ DATE RCD FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE			DATE OF ACTION
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		01000	SD-01 Preconstruction Submittals														
			Title Evidence	1.3													
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SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION						CONTRACTOR											
Corps of Eng-Baltimore																	
ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH	GOVT CLASSIFICATION REVIEWER	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY				MAILED TO CONTR/ DATE RCD FRM APPR AUTH	REMARKS	
						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ DATE RCD FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE			DATE OF ACTION
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
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			Schedule Reports	3.5.4	G												
		01451	SD-01 Preconstruction Submittals														
			CQC Plan	3.2	G												
			Phase Notification	3.6.1	G												
			CQC Mgr Qualification	3.2.2	G												
			SD-05 Design Data														
			Notification of Changes	3.2.4													
			Punchlist	3.8.1													
			Minutes	3.3													
			SD-06 Test Reports														

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		01451	Tests	3.7.1													
			Documentation	3.9													
			Tests Performed	3.7.1													
			QC Records	3.9	G												
		01510	SD-02 Shop Drawings														
			Temporary Electrical Work	1.5													
			MOVER's insurance policy	2.3.2.4													
		01561	SD-01 Preconstruction Submittals														
			Facility Plan	1.9.4	G												
		01720	SD-11 Closeout Submittals														
			Progress Prints	1.4	G												
			Final Requirements	1.6	G												
			CADD Files	1.6													
		02220	SD-03 Product Data														
			Work Plan	1.4.1	G												
			SD-07 Certificates														
			Demolition plan	1.9	G												
			Notifications	1.4.1	G												
			Notification of Demolition and Renovation forms	1.4.1	G												
			SD-11 Closeout Submittals														
			Receipts	1.4.2													
		02300	SD-03 Product Data														
			Earthwork		G												
			SD-06 Test Reports														
			Testing	3.10	G												

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		02300	SD-07 Certificates														
			Testing	3.10	G												
		02316	SD-06 Test Reports														
			Field Density Tests	3.4.3													
			Testing of Backfill Materials	3.4.2													
		02510	SD-03 Product Data														
			Installation	3.1	G												
			Waste Water Disposal Method	3.2.1	G												
			Satisfactory Installation	3.4	G												
			SD-06 Test Reports														
			Bacteriological Disinfection	3.3.1	G												
			SD-07 Certificates														
			Manufacturer's Representative	1.4	G												
			Installation	3.1	G												
		02531	SD-07 Certificates														
			Joints	2.3	G												
		02713	SD-03 Product Data														
			Job-Mix Formula (JMF)	2.4.1	G												
			Waybills and delivery tickets	1.7	G												
			Sources of Aggregates	2.1.5	G												
			SD-04 Samples														
			Sources of Aggregates	2.1.5	G												
			SD-06 Test Reports														
			Sources of Aggregates	2.1.5	G												
			Bituminous Materials	2.2	G												
			Sampling and testing	1.4	G												

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		02722	SD-03 Product Data														
			Plant, Equipment, and Tools	1.7	G												
			SD-06 Test Reports														
			Sampling and testing	1.5	G												
			Field Density Tests	1.5.2.4	G												
		02741	SD-03 Product Data														
			Mix Design	2.3	G												
			Contractor Quality Control	3.10	G												
			Material Acceptance and Percent Payment	3.11	G												
			SD-04 Samples														
			Asphalt Cement Binder	2.2	G												
			Aggregates	2.1	G												
			SD-06 Test Reports														
			Aggregates	2.1	G												
			QC Monitoring	3.10.3.10	G												
			SD-07 Certificates														
			Asphalt Cement Binder	2.2	G												
			Testing Laboratory	3.6	G												
		02821	SD-07 Certificates														
			Chain Link Fence	Part 2	G												
		02920	SD-09 Manufacturer's Field Reports														
			Grass Seed	2.3													
			Top Soil	2.1													
		03101	SD-02 Shop Drawings														

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		03101	Shop Drawings	1.4	G												
			SD-03 Product Data														
			Materials	2.1	G												
		03151	SD-06 Test Reports														
			Premolded Expansion Joint Filler Strips	2.1.1	G												
		03200	SD-02 Shop Drawings														
			Reinforcement	3.1	G												
			SD-03 Product Data														
			Welding	1.3	G												
			SD-07 Certificates														
			Reinforcing Steel	2.1	G												
		03300	SD-03 Product Data														
			Mixture Proportions	1.7	G												
			SD-06 Test Reports														
			Testing and Inspection for Contractor Quality Control	3.14	G												
			SD-07 Certificates														
			Qualifications	1.4	G												
		03330	SD-02 Shop Drawings														
			Architectural Concrete		G												
			Detail drawings	3.1													
		03930	SD-05 Design Data														
			Job mix formula	1.4.1.1													
			SD-06 Test Reports														
			aggregate	2.1.2													

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		03930	Epoxy resin binder	2.1.1.1													
			Epoxy grout	2.1.1.2													
			SD-07 Certificates														
			Epoxy resin binder	2.1.1.1													
			Epoxy grout	2.1.1.2													
			SD-08 Manufacturer's Instructions														
			Epoxy	2.1.1													
		04200	SD-02 Shop Drawings														
			Special Brick	1.4													
			Anchoring Methods	1.4													
			SD-04 Samples														
			Joint Reinforcement	2.7.1													
			SD-07 Certificates														
			Brick Materials	2.1.1													
			SD-08 Manufacturer's Instructions														
			Manufacturer's Instructions	1.4													
		05120	SD-02 Shop Drawings														
			Erection drawings	1.6.1	G												
			Fabrication drawings	1.6.1	G												
			SD-03 Product Data														
			Shop primer	2.4													
			Load indicator washers	2.2.3													
			SD-06 Test Reports														
			Bolts, nuts, and washers	2.2													
			SD-07 Certificates														
			Steel	2.1													

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		05120	Bolts, nuts, and washers	2.2													
			Shop primer	2.4													
			Welding electrodes and rods	2.3.1													
			Nonshrink grout	2.3.2													
			Galvanizing	2.5													
			AISC Quality Certification	1.5													
			Welding procedures and qualifications	1.6.2.2													
		05300	SD-02 Shop Drawings														
			Deck Units	2.1	G												
			Accessories	2.5	G												
			Attachments	3.2	G												
			Holes and Openings	3.3	G												
			SD-03 Product Data														
			Deck Units	2.1	G												
			Attachments	3.2	G												
			SD-07 Certificates														
			Deck Units	2.1	G												
		05500	SD-02 Shop Drawings														
			Miscellaneous Metal Items	1.6													
			SD-04 Samples														
			Miscellaneous Metal Items	1.6													
		06100	SD-02 Shop Drawings														
			Installation of Framing	3.1	G												
			Nailers and Nailing Strips	3.3.4	G												
			SD-07 Certificates														

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		06100	Grading and Marking	2.1.1													
			Insulation	2.3													
		06200	SD-02 Shop Drawings														
			Woodwork Items	3.2	G												
			SD-03 Product Data														
			Wood Items	2.1	G												
		06410	SD-02 Shop Drawings														
			Shop Drawings	1.5	G												
			Shop Drawings	1.8	G												
			Installation	3.1	G												
			SD-03 Product Data														
			Wood Materials	2.1	G												
			Wood Finishes	2.7	G												
			Finish Schedule	2.9.8.3	G												
			SD-04 Samples														
			Plastic Laminates	2.2	G												
			Cabinet Hardware	2.4	G												
			SD-07 Certificates														
			Quality Assurance	1.4	G												
			Laminate Clad Casework	2.7	G												
			Laminate Clad Casework	3.1	G												
		06610	SD-02 Shop Drawings														
			Shop Drawings	2.3.1													
			SD-03 Product Data														
			Maintenance Recommendations	3.1													
			SD-04 Samples														

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		06610	Sample	2.3.1													
			SD-07 Certificates														
			Fiberglass Components	3.1													
		06650	SD-02 Shop Drawings														
			Shop Drawings	3.1	G												
			Installation	3.2	G												
			SD-03 Product Data														
			Solid polymer material	2.1	G												
			Qualifications	1.6	G												
			Fabrications	2.3	G												
			SD-04 Samples														
			Material	2.1	G												
			Counter Tops	2.3.4	G												
			SD-06 Test Reports														
			Solid polymer material	2.1	G												
			SD-07 Certificates														
			Fabrications	2.3	G												
			Qualifications	1.6	G												
			SD-10 Operation and Maintenance														
			Data														
			Solid polymer material	2.1	G												
			Clean-up	3.3	G												
		07210	SD-03 Product Data														
			Batts and Rolls	2.1.1.1													
			Mineral-Fiber Batts	2.1.2													
			Mineral-Fiber Flexible Blankets	2.1.3													

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		07210	Rigid Polystyrene Board	2.1.4													
			Rigid Polyurethane Board	2.1.5													
			SD-04 Samples														
			Glass-Fiber Insulation Board	2.1.1													
			Mineral Fiber Batts	2.1.2													
			Mineral-Fiber Flexible Blankets	2.1.3													
			Rigid Polystyrene Board	2.1.4													
			Rigid Polyurethane Board	2.1.5													
			SD-06 Test Reports														
			Test Reports	3.7													
			SD-07 Certificates														
			Batts and Rolls	2.1.1.1													
			Mineral-Fiber Batts	2.1.2													
			Mineral-Fiber Flexible Blankets	2.1.3													
			Rigid Polystyrene Board	2.1.4													
			Rigid Polyurethane Board	2.1.5													
			SD-11 Closeout Submittals														
			Warranty	3.6.1													
		07220	SD-03 Product Data														
			Application of Insulation	3.6	G												
			Inspection	3.7	G												
			SD-07 Certificates														
			Insulation	2.2	G												
			Glass Roofing Felt	2.4													
			Organic Roofing Felt	2.5													
		07310	SD-02 Shop Drawings														

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		07310	Shop Drawings	1.3													
			SD-03 Product Data														
			Qualifications	1.3													
			SD-04 Samples														
			Slate	2.1.1.1													
			Composite Slate	2.1.1													
			Underlayment Membrane	2.1.2													
			Fasteners	2.1.3													
			SD-07 Certificates														
			Materials	2.1													
		07600	SD-02 Shop Drawings														
			Covering on flat, sloped, or curved surfaces		G												
			Flashing for roof drains		G												
			Base flashing		G												
			Counterflashing		G												
			Flashing at roof penetrations		G												
			Drip edge		G												
			Open valley flashing		G												
			Eave flashing		G												
			SD-11 Closeout Submittals														
			Quality Control Plan	3.5													
		07840	SD-02 Shop Drawings														
			Firestopping Materials	2.1	G												
			SD-07 Certificates														
			Firestopping Materials	2.1	G												

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		07840	Installer Qualifications	1.5	G												
			Inspection	3.3	G												
		07900	SD-03 Product Data														
			Backing	2.1	G												
			Bond-Breaker	2.2	G												
			Sealant	2.5	G												
			SD-07 Certificates														
			Sealant	2.5	G												
		07920	SD-03 Product Data														
			Bond-Preventative Material	2.2													
			Primer	2.3													
			Elastomeric Sealants	2.4.1													
			Latex Sealants	2.4.2													
			Solvents and Cleaning Agents	2.5													
			SD-04 Samples														
			Sealing Compound	1.2.1													
			Labels	1.2.1													
			Backup Material	1.2.1													
			SD-07 Certificates														
			Bond-Preventative Material	2.2													
			Primer	2.3													
			Solvents and Cleaning Agents	2.5													
			SD-08 Manufacturer's Instructions														
			Manufacturer's Installation	2.4													
			Thermoplastic Sealing Compound	2.4													

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		07920	Two-Component Elastomeric Sealant	2.4													
		08100	SD-02 Shop Drawings														
			Steel Doors	2.1.1													
			Frames	2.1.2													
			Steel Doors	2.1.1													
			Frames	2.1.2													
			SD-03 Product Data														
			Steel Doors	2.1.1													
			Frames	2.1.2													
			Finish Hardware	2.2													
			Reinforcement	2.2													
			SD-07 Certificates														
			Steel Doors	2.1.1													
			Frames	2.1.2													
			Finish Hardware	2.2													
			Reinforcement	2.2													
		08120	SD-02 Shop Drawings														
			Doors, frames and view windows	2.1	G												
			SD-08 Manufacturer's Instructions														
			Doors and frames														
		08210	SD-02 Shop Drawings														
			Doors	2.1	G												
			SD-03 Product Data														
			Doors	2.1	G												
			Accessories	2.2	G												

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		08210	warranty	1.4	G												
			Fire resistance rating	2.1.2	G												
			SD-04 Samples														
			Doors	2.1													
			SD-06 Test Reports														
			Split resistance	2.4													
			Cycle-slam	2.4													
			Hinge loading resistance	2.4													
		08620	SD-02 Shop Drawings														
			Shop Drawings	1.7	G												
			SD-03 Product Data														
			Skylight	1.5	G												
			Warranty	1.6	G												
			SD-06 Test Reports														
			Test Reports	1.5	G												
			SD-07 Certificates														
			Skylight	1.5													
			Qualifications	1.4													
		08710	SD-02 Shop Drawings														
			Hardware schedule	1.3	G												
			Keying system	2.3.5													
			SD-03 Product Data														
			Hardware items	2.3	G												
			SD-08 Manufacturer's Instructions														
			Installation	3.1													

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ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH #	GOVT CLASSIFICATION REV OR	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY				MAILED TO CONTR/ DATE RCD FRM APPR AUTH	REMARKS	
						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ DATE RCD FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE			DATE OF ACTION
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		08710	SD-10 Operation and Maintenance Data														
			Hardware Schedule	1.3	G												
			SD-11 Closeout Submittals														
			Key biting list	2.3.5													
		08711	SD-01 Preconstruction Submittals														
			Material, Equipment and Fixture Lists	1.6													
			SD-02 Shop Drawings														
			Installation Drawings	1.7													
			SD-03 Product Data														
			Fasteners	2.1													
			Hinges	2.2													
			Locksets	2.3													
			Deadlocks	2.4													
			Night Latches	2.4													
			Exit Bolts	2.5													
			Push and Pull Bars	2.6													
			Pulls and Push Plates	2.7													
			Thresholds	2.8													
			Closers	2.9													
			Coordinating Device	2.10													
			Miscellaneous and Shelf Hardware	2.11													
			Weatherstripping Materials	2.12													
			SD-04 Samples														

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Corps of Eng-Baltimore																	
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		08711	Fasteners	2.1													
			Hinges	2.2													
			Locksets	2.3													
			Deadlocks	2.4													
			Night Latches	2.4													
			Exit Bolts	2.5													
			Push and Pull Bars	2.6													
			Pulls and Push Plates	2.7													
			Thresholds	2.8													
			Closers	2.9													
			Coordinating Device	2.10													
			Miscellaneous and Shelf Hardware	2.11													
			Weatherstripping Materials	2.12													
			SD-06 Test Reports														
			Thickness of Plating	1.8													
			Anodic Film	1.8													
			Finish and Color	1.8													
			Salt Spray Tests	1.8													
			Accelerated Aging	1.8													
			Flammability	1.8													
			Deformation	1.8													
			Colorfastness	1.8													
			SD-07 Certificates														
			Fasteners	2.1													
			Hinges	2.2													

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		08711	Locksets	2.3													
			Deadlocks	2.4													
			Night Latches	2.4													
			Exit Bolts	2.5													
			Push and Pull Bars	2.6													
			Pulls and Push Plates	2.7													
			Thresholds	2.8													
			Coordinating Device	2.10													
			Miscellaneous and Shelf Hardware	2.11													
			Weatherstripping Materials	2.12													
			SD-10 Operation and Maintenance Data														
			Finish Hardware Items	1.6													
		08810	SD-02 Shop Drawings Installation	3.2													
			SD-07 Certificates														
			Glazing Accessories	2.5													
		09260	SD-02 Shop Drawings														
			Hangers and Inserts	2.1.8.1													
			Channels	2.1.8.2													
			Steel Stud Framing	2.1.8.3													
			Metal Accessories	2.1.9													
			Trim	2.1.9													
			SD-03 Product Data														
			Gypsum Wallboard	2.1.2													

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		09260	Gypsum Wallboard	2.1.3													
			Furring	2.1.8.3													
			Hangers and Inserts	2.1.8.1													
			Channels	2.1.8.2													
			Channels	2.1.8.2													
			Joint Tapes	2.1.6.1													
			Compounds	2.1.6.2													
			Steel-Stud Framing	2.1.8.3													
			Fasteners	2.1.7													
			Adhesives	2.1.6.2													
			Special Framed Openings	1.2													
			Rated Wallboard Assemblies	1.2													
			SD-04 Samples														
			Gypsum Wallboard	2.1.2													
			Gypsum Wallboard	2.1.3													
			Steel-Stud Framing	2.1.8.3													
			Fasteners	2.1.7													
			Trim	2.1.9													
			SD-07 Certificates														
			Certificates	1.2													
		09310	SD-03 Product Data														
			Tile	2.1	G												
			Setting-Bed	2.2	G												
			Mortar, Grout, and Adhesive	2.4	G												
			SD-04 Samples														
			Tile	2.1	G												

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		09310	Accessories	2.1.3	G												
			Marble Thresholds	2.5	G												
			SD-07 Certificates														
			Tile	2.1	G												
			Mortar, Grout, and Adhesive	2.4	G												
		09510	SD-02 Shop Drawings														
			Approved Detail Drawings	1.3	G												
			SD-03 Product Data														
			Acoustical Ceiling Systems	1.3.1	G												
			SD-04 Samples														
			Acoustical Units	2.1	G												
			SD-06 Test Reports														
			Fire Resistive Ceilings	1.3.1	G												
			Ceiling Attenuation Class and Test	1.3.2	G												
			SD-07 Certificates														
			Acoustical Units	2.1	G												
		09650	SD-02 Shop Drawings														
			Tile Flooring	2.2	G												
			SD-03 Product Data														
			Tile Flooring	2.2	G												
			Integral Coved Base		G												
			Adhesive for Vinyl Composition Tile	2.2.5	G												
			Adhesive for Wall Base	2.2.6	G												
			SD-04 Samples														

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		09650	Tile Flooring	2.2	G												
			Wall Base	2.4	G												
			SD-06 Test Reports														
			Moisture Test	3.3	G												
			SD-08 Manufacturer's Instructions														
			Tile Flooring	2.2	G												
			SD-10 Operation and Maintenance Data														
			Cleaning, patching, repair and replacement procedures and materials		G												
		09670	SD-02 Shop Drawings														
			Flooring	2.1	G												
			SD-03 Product Data														
			Sealer and Resin	2.3	G												
			Floor Surfacing	3.3.2	G												
			Mixing	3.2	G												
			SD-04 Samples														
			Flooring Systems	2.2	G												
			SD-06 Test Reports														
			Test Reports	2.1	G												
			SD-07 Certificates														
			Qualifications of Installer	1.6	G												
			SD-08 Manufacturer's Instructions														
			Application	3.3	G												
		09680	SD-02 Shop Drawings														

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		09680	Installation	3.4	G												
			Molding	2.3	G												
			SD-03 Product Data														
			Carpet	2.1	G												
			Surface Preparation	3.1	G												
			Installation	3.4	G												
			Regulatory Requirements	1.3	G												
			SD-04 Samples														
			Carpet	2.1	G												
			Molding	2.3	G												
			SD-06 Test Reports														
			Moisture and Alkalinity Tests	3.2	G												
			SD-07 Certificates														
			Carpet	2.1	G												
			Regulatory Requirements	1.3	G												
			SD-10 Operation and Maintenance														
			Data														
			Carpet	2.1	G												
			Cleaning and Protection	3.5	G												
		09720	SD-03 Product Data														
			Wallcoverings	2.1	G												
			Installation	3.3	G												
			Clean-Up	3.4	G												
			SD-04 Samples														
			Wallcoverings	2.1	G												
			SD-07 Certificates														

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		09720	Wallcoverings	2.1	G												
			SD-08 Manufacturer's Instructions														
			Wallcoverings	2.1	G												
			SD-10 Operation and Maintenance Data														
			Wallcoverings	2.1	G												
		09840	SD-02 Shop Drawings														
			Approved Detail Drawings	2.1	G												
			SD-03 Product Data														
			Installation	3.2	G												
			Acoustical Wall Panels	2.1	G												
			SD-04 Samples														
			Acoustical Wall Panels	2.1	G												
			SD-07 Certificates														
			Acoustical Wall Panels	2.1	G												
		09900	SD-02 Shop Drawings														
			Piping identification stencil	3.10													
			SD-03 Product Data														
			Coating	2.1	G												
			Manufacturer's Technical Data Sheets	2.1													
			SD-04 Samples														
			Color	1.9	G												
			SD-07 Certificates														
			Applicator's qualifications	1.3													

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Corps of Eng-Baltimore						CONTRACTOR: SCHEDULE DATES						CONTRACTOR ACTION		APPROVING AUTHORITY					
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																		(a)	(b)

		09900	Qualification Testing	1.4.1.2	G												
			SD-08 Manufacturer's Instructions														
			Application instructions	3.2.1													
			Mixing	3.6.2													
			Manufacturer's Material Safety Data Sheets	1.7.2													
			SD-10 Operation and Maintenance Data														
			Coatings	2.1	G												
		09915	SD-04 Samples														
			Color Schedule	2.2	G												
		10100	SD-02 Shop Drawings														
			AV System	2.5	G												
			SD-03 Product Data														
			Presentation Board	2.3	G												
			Audio-Visual Components	2.5	G												
			SD-04 Samples														
			Aluminum	2.2.5													
			Porcelain Enamel	2.2.1													
			Materials	2.2													
			SD-07 Certificates														
			Certificates	3.2													
		10153	SD-02 Shop Drawings														
			Toilet Enclosures	2.1	G												
			SD-03 Product Data														
			Toilet Enclosures	2.1	G												
			SD-04 Samples														
			Toilet Enclosures	2.1	G												

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		10201	SD-02 Shop Drawings														
			Wall louvers	2.2													
			SD-04 Samples														
			Wall louvers	2.2	G												
		10500	SD-02 Shop Drawings														
			Fabrication Drawings	1.7													
			Installation Drawings	1.7													
			SD-03 Product Data														
			Locker Materials	2.1													
			Hardware and Accessories	2.2													
			SD-04 Samples														
			Color Chips	1.7													
			SD-07 Certificates														
			Certificates	1.7													
		10523	SD-02 Shop Drawings														
			Fire Extinguishers	2.1													
			Fire Extinguishers	3.1													
			Adjuncts	2.4													
			Cabinets	2.5													
			Wall Brackets	2.6													
			SD-03 Product Data														
			Fire Extinguishers	2.1													
			Fire Extinguishers	3.1													
			Adjuncts	2.4													
			Cabinets	2.5													
			Wall Brackets	2.6													

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		10523	Replacement Parts	3.2.1													
			SD-07 Certificates														
			Fire Extinguishers	2.1													
			Fire Extinguishers	2.1													
			Fire Extinguishers	2.1													
			Fire Extinguishers	3.1													
			Fire Extinguishers	3.1													
			Fire Extinguishers	3.1													
		10600	SD-02 Shop Drawings														
			Fabrication Drawings	1.3													
			Installation Drawings	1.3													
			Movable Metal Partition														
			Filler Panels														
			Posts														
			Glazing														
			SD-03 Product Data														
			Partition	3.2													
			SD-04 Samples														
			Manufacturer's Standard Color	1.3													
			Charts														
			SD-07 Certificates														
			Partition	3.2													
			SD-08 Manufacturer's Instructions														
			Manufacturer's Instructions	1.3													
		10675	SD-01 Preconstruction Submittals														
			Shelving Units	3.2													

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		10675	SD-03 Product Data														
			Shelving Units	3.2													
			Accessories	2.2													
			Installation instructions	3.2													
			SD-04 Samples														
			Finish	2.3													
			SD-06 Test Reports														
			Shelving Units	3.2													
			Finish	2.3													
		10800	SD-03 Product Data														
			Finishes	2.1.2	G												
			Accessory Items	2.2	G												
		11225	SD-02 Shop Drawings														
			RO System	1.3													
			SD-03 Product Data														
			Organic Adsorption Carbon Filter	2.1.1	G												
			Material Safety Data Sheet	1.7													
			SD-07 Certificates														
			RO System	1.3													
			SD-10 Operation and Maintenance														
			Data														
			RO System	1.3													
		11401	SD-03 Product Data														
			Kitchen equipment	2.1													
			Ice maker	2.1.1													
			Laboratory Freezer	2.1.1													

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		11401	SD-08 Manufacturer's Instructions														
			Kitchen equipment	2.1													
			Laboratory equipment	2.1													
			SD-10 Operation and Maintenance Data														
			Kitchen equipment	2.1	G												
			Laboratory Equipment	2.1	G												
		12320	SD-02 Shop Drawings														
			Installation	3.1	G												
			SD-03 Product Data														
			Cabinets	2.1													
			Countertops and Backsplash	2.2													
		12491	SD-04 Samples														
			Draperly fabric	2.1.1.1	G												
			SD-06 Test Reports														
			Flame resistance	2.1.1.3													
			SD-08 Manufacturer's Instructions														
			Draperly hardware	2.1.4													
			fabrication	2.2.1													
			SD-10 Operation and Maintenance Data														
			Draperly system	1.3	G												
		12496	SD-02 Shop Drawings														
			Approved Detail Drawings														
			SD-03 Product Data														
			Hardware														

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		12500	SD-02 Shop Drawings														
			Approved Detail Drawings		G												
			Installation														
			SD-03 Product Data														
			Installation Instructions	Part 3	G												
			Warranty		G												
			SD-10 Operation and Maintenance														
			Data														
			Maintenance Manuals	Part 3	G												
		12705	SD-02 Shop Drawings														
			Approved Detail Drawings	3.1	G												
			SD-03 Product Data														
			Installation Instructions	3.1	G												
			Warranty	1.7	G												
			SD-04 Samples														
			Workstations	2.2.1	G												
			SD-06 Test Reports														
			Selected Components	2.1.1	G												
			Panel Acoustics	2.1.2	G												
			Fire Safety	2.1.3	G												
			Electrical System	2.1.5	G												
			SD-07 Certificates														
			Workstations	2.2.1													
			SD-10 Operation and Maintenance														
			Data														
			Product Assembly Manual	3.1													

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		12705	Product Maintenance Manuals	3.1													
			Cleaning	3.2													
			Electrical System	2.1.5													
		13280	SD-03 Product Data														
			Respiratory Protection Program	1.12	G												
			Cleanup and Disposal	3.11	G												
			Detailed Drawings		G												
			SET-UP DETAIL SHEETS	1.3.1													
			Materials and Equipment		G												
			Qualifications	1.5	G												
			Training Program	1.11	G												
			Medical Requirements	1.10													
			Encapsulants	2.1	G												
			SD-06 Test Reports														
			Exposure Assessment and Air Monitoring	3.9	G												
			Local Exhaust Ventilation	1.20													
			Licenses, Permits and Notifications	1.14	G												
			SD-07 Certificates														
			Vacuum	1.16.7													
		13851	SD-02 Shop Drawings														
			Fire Alarm Reporting System	1.4.1													
			SD-03 Product Data														
			Storage Batteries	2.2													
			Voltage Drop	1.4.1													

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		13851	Special Tools and Spare Parts	2.7.3													
			Technical Data and Computer Software		G												
			Training	3.5													
			Testing	3.4													
			SD-06 Test Reports														
			Testing	3.4													
			SD-07 Certificates														
			Equipment	1.3.6													
			Qualifications	1.3.7													
			SD-10 Operation and Maintenance Data														
			Technical Data and Computer Software		G												
		13945	SD-02 Shop Drawings														
			Shop Drawings		G												
			As-Built Drawings	3.12	G												
			SD-03 Product Data														
			Fire Protection Specialist	3.1	G												
			Fire Protection Specialist	3.1	G												
			Sprinkler System Installer	3.1													
			Qualifications														
			Fire Protection Related Submittals	3.1	G												
			Sway Bracing	3.4.1	G												
			Materials and Equipment	3.1	G												
			Hydraulic Calculations	1.8	G												

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		13945	Storage Batteries	3.1	G												
			Spare Parts	3.1													
			Spare Parts	3.1													
			Preliminary Tests	3.11	G												
			Final Acceptance Tests	3.12	G												
			On-site Training Schedule	3.1	G												
			On-site Training Schedule	3.1	G												
			SD-06 Test Reports														
			Flow test report		G												
			Preliminary Tests	3.11	G												
			Final Acceptance Tests	3.12	G												
			SD-07 Certificates														
			Inspection by Fire Protection Specialist	3.3	G												
			SD-10 Operation and Maintenance Data														
			Cycling Preaction Sprinkler System	3.1	G												
		14100	SD-02 Shop Drawings														
			Shop Drawings	2.1.1	G												
			Wiring Diagrams	2.1.1	G												
			SD-04 Samples														
			Samples	2.1.1	G												
			SD-05 Design Data														
			Maintenance Manuals	3.3	G												
		14210	SD-02 Shop Drawings														

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		14210	Elevator System	2.1.1	G												
			Test Procedure	3.4	G												
			SD-04 Samples														
			Finishes	2.2.1													
			Finishes	3.1													
			SD-06 Test Reports														
			Testing	3.4													
			SD-07 Certificates														
			Qualification Certificates	3.4													
			Certificate	3.4													
			SD-10 Operation and Maintenance														
			Data														
			Elevator System	2.1.1	G												
		15070	SD-03 Product Data														
			Isolators	2.3													
			Flexible connectors	2.8													
			Flexible duct connectors	2.9													
			Pipe guides	2.10													
			Machinery manufacturer's sound data	1.3.2													
			SD-08 Manufacturer's Instructions														
			Vibration and noise isolation components	3.1.1													
		15080	SD-03 Product Data														
			Thermal Insulation Materials	2.2	G												
		15181	SD-02 Shop Drawings														

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		15181	Piping System	2.4	G												
			SD-03 Product Data														
			Piping System	2.4	G												
			Water Treatment Systems	2.13	G												
			Spare Parts	3.9	G												
			Field Tests	3.8	G												
			Demonstrations	3.9	G												
			Verification of Dimensions	1.6.1	G												
			SD-06 Test Reports														
			Field Tests	3.8	G												
			SD-07 Certificates														
			Service Organization	2.1	G												
			SD-10 Operation and Maintenance Data														
			Operation Manuals	3.9	G												
			Maintenance Manuals	3.9	G												
			Water Treatment Systems	2.13	G												
		15190	SD-02 Shop Drawings														
			Gas Piping System	3.1	G												
			SD-03 Product Data														
			Welding	3.3	G												
			SD-06 Test Reports														
			Testing	3.13	G												
			Pressure Tests	3.13.1	G												
			Test With Gas	3.13.2	G												
		15400	SD-02 Shop Drawings														

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		15400	Plumbing System	3.7.1	G												
			Plumbing System	3.7.1	G												
			SD-06 Test Reports														
			Tests, Flushing and Disinfection	3.7	G												
			Backflow Preventer	2.3.1													
			SD-07 Certificates														
			Materials and Equipment	2.1	G												
			SD-10 Operation and Maintenance														
			Data														
			Plumbing System	3.7.1	G												
		15556	SD-02 Shop Drawings														
			Heating System	2.13	G												
			SD-03 Product Data														
			Spare Parts	3.21	G												
			Welding	3.3													
			Framed Instructions	3.20	G												
			SD-06 Test Reports														
			Testing and Cleaning	3.17	G												
			Water Treatment Testing	3.17.4	G												
			SD-07 Certificates														
			Bolts	2.2.7.3													
			SD-10 Operation and Maintenance														
			Data														
			Heating System	2.13													
			Energy Recovery System	2.13.4	G												
		15620	SD-02 Shop Drawings														

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		15620	Shop Drawings	1.5.2	G												
			Installation	3.1	G												
			SD-03 Product Data														
			Refrigeration System	3.1.1	G												
			Spare Parts	3.5	G												
			Posted Instructions	3.5	G												
			Verification of Dimensions	1.5.1	G												
			Manufacturer's Multi-Year Compressor Warranty	1.6	G												
			System Performance Tests	3.1.1.2	G												
			System Performance Tests	3.4	G												
			SD-06 Test Reports														
			Factory Tests	2.8	G												
			System Performance Tests	3.1.1.2	G												
			System Performance Tests	3.4	G												
			SD-07 Certificates														
			Refrigeration System	3.1.1	G												
			Service Organization	2.1	G												
			SD-10 Operation and Maintenance Data														
			Operation Manuals	3.5	G												
			Maintenance Manuals	3.5	G												
		15652	SD-02 Shop Drawings														
			Refrigeration System	2.6	G												
			SD-03 Product Data														
			Refrigeration System	2.6	G												

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		15652	SD-06 Test Reports														
			Tests	3.2.8	G												
		15700	SD-02 Shop Drawings														
			Shop Drawings	2.1	G												
			SD-03 Product Data														
			Unitary Equipment	2.4	G												
			Spare Parts Data	3.4	G												
			Posted Instructions	3.4	G												
			Verification of Dimensions	1.5.1	G												
			System Performance Tests	3.3	G												
			Demonstrations	3.4	G												
			SD-06 Test Reports														
			Refrigerant Tests, Charging, and Start-Up		G												
			System Performance Tests	3.3	G												
			SD-07 Certificates														
			Unitary Equipment	2.4	G												
			Service Organization	2.1	G												
			SD-10 Operation and Maintenance Data														
			Operation Manuals	3.4	G												
			Maintenance Manuals	3.4	G												
		15752	SD-10 Operation and Maintenance Data														
			Operation Manuals		G												
		15801	SD-02 Shop Drawings														

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		15801	Fume exhaust systems	1.2.3	G												
			SD-03 Product Data														
			Dampers	3.1.1													
			Flexible connectors	2.10.6													
			Flexible connectors	2.10.6													
			Flexible duct	2.7.3	G												
			Flexible duct	2.7.3	G												
			Gaskets	2.3													
			Coating materials	2.2													
			Access ports	3.1.9													
			Blast gates	2.8.1													
			Supports and hangers	2.9													
			Vibration isolators	2.9.5													
			Stainless Steel ducts	2.11													
			Fiberglass (PVC) ductwork														
			Thermoplastic ductwork	1.4.4													
			SD-06 Test Reports														
			Fan tests														
			start-up tests	1.2.4													
			Sound level tests	1.2.4													
			SD-07 Certificates														
			Welding procedures	1.4.5													
			Welding test agenda	3.1.8													
			Welding test procedures	1.4.5													
			Welders' identification	1.4.1													
			Work plan	1.4.2													

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		15801	Fiberglass fan servicer experience information	1.4.3	G												
			SD-10 Operation and Maintenance Data														
			Fans	1.2.2													
			Fume exhaust systems	1.2.3	G												
			SD-11 Closeout Submittals														
			Posted operating instructions	1.5													
		15846	SD-02 Shop Drawings														
			Shop Drawings	1.3.4	G												
			Boiler Setting	1.3.4	G												
			SD-03 Product Data														
			Spare Parts	3.3	G												
			Framed Instructions	3.3	G												
			Performance Tests	3.2.4	G												
			SD-06 Test Reports														
			Testing	3.2	G												
			SD-10 Operation and Maintenance Data														
			Operation and Maintenance Manuals	3.3	G												
		15895	SD-02 Shop Drawings														
			Drawings	3.1.4	G												
			Installation	3.1	G												
			SD-03 Product Data														
			Components and Equipment	2.2	G												

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		15895	Test Procedures	2.18.1	G												
			Welding Procedures	3.1	G												
			System Diagrams	3.1	G												
			Similar Services	3.1	G												
			Welding Joints	3.1													
			Testing, Adjusting and Balancing	3.6	G												
			Field Training	3.8	G												
			SD-06 Test Reports														
			Performance Tests	3.7	G												
			SD-10 Operation and Maintenance														
			Data														
			Operating and Maintenance	3.8	G												
			Instructions														
		15896	SD-07 Certificates														
			Air System Cleaning Specialist	3.1.1	G												
		15897	SD-02 Shop Drawings														
			Schematic diagrams	1.5.1	G												
			Interconnecting diagrams	1.5.2	G												
			Installation drawings	1.5.3	G												
			SD-03 Product Data														
			Variable frequency drives	2.1	G												
			Wires and cables	2.3													
			Equipment schedule	1.5.4	G G												
			SD-06 Test Reports														
			VFD Test	3.2.1													
			Performance Verification Tests	3.2.2													

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		15897	Endurance Test	3.2.3													
			SD-08 Manufacturer's Instructions														
			Installation instructions	1.5.5													
			SD-09 Manufacturer's Field Reports														
			VFD Factory Test Plan	2.5.1	G												
			Factory test results	1.5.6	G												
			SD-10 Operation and Maintenance Data														
			Variable frequency drives	2.1													
		15951	SD-02 Shop Drawings														
			HVAC Control System	3.1.1	G												
			SD-03 Product Data														
			Service Organizations	1.5	G												
			Equipment Compliance Booklet	1.6	G												
			Commissioning Procedures	3.13	G												
			Performance Verification Test Procedures	1.6	G												
			Training	3.15	G												
			SD-06 Test Reports														
			Commissioning Report	3.15.2	G												
			Performance Verification Test	3.14.3	G												
			SD-10 Operation and Maintenance Data														
			Operation Manual	1.5	G												
			Maintenance and Repair Manual	1.6	G												

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						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ DATE RCD FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE			DATE OF ACTION
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		15970	SD-02 Shop Drawings														
			Lab Control System	3.1.1	G												
			SD-03 Product Data														
			Service Organizations	1.5	G												
			Equipment Compliance Booklet	1.6	G												
			Commissioning	3.4.2	G												
			Performance Verification Test Procedures	1.6	G												
			Training	3.5	G												
			SD-06 Test Reports														
			Commissioning Report	3.5.2	G												
			Performance Verification Test	3.4.3	G												
			SD-10 Operation and Maintenance Data														
			Operation Manual	1.5	G												
			Maintenance and Repair Manual	1.6	G												
		15990	SD-02 Shop Drawings														
			TAB Schematic Drawings and Report Forms	3.3	G												
			SD-03 Product Data														
			TAB Related HVAC Submittals	3.2													
			TAB Procedures	3.5.1	G												
			Calibration	1.4													
			Systems Readiness Check	3.5.2													
			TAB Execution	3.5.1	G												
			TAB Verification	3.5.4	G												

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		15990	SD-06 Test Reports														
			Design Review Report	3.1	G												
			Systems Readiness Check	3.5.2	G												
			TAB Report	3.5.3	G												
			TAB Verification Report	3.5.4	G												
			SD-07 Certificates														
			Ductwork Leak Testing	3.4													
			TAB Firm	1.5.1	G												
			TAB Specialist	1.5.2	G												
		15995	SD-03 Product Data														
			Commissioning Team	3.1	G												
			Test Procedures	3.1	G												
			Test Schedule	3.1	G												
			SD-06 Test Reports														
			Test Reports	3.1	G												
		16265	SD-02 Shop Drawings														
			UPS System	1.3	G												
			SD-03 Product Data														
			Performance Requirements	1.3.4													
			Spare Parts	3.4													
			Field Training	3.4	G												
			SD-06 Test Reports														
			Factory Testing	2.12													
			Field Supervision, Startup and Testing	3.2													
		16360	SD-02 Shop Drawings														

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		16360	Unit Substation Drawings	1.4.1.1	G												
			Transformer drawings	1.4.1.2													
			SD-03 Product Data														
			Fuse curves	1.4.1.1	G												
			Secondary unit substation	2.4	G												
			Equipment Test Schedule	2.6.1													
			Unit substation transformer (dry-type)														
			SD-06 Test Reports														
			Acceptance checks and tests	3.5.1	G												
			SD-07 Certificates														
			Paint coating system	1.4.2	G												
			Transformer losses	1.4.3	G												
			SD-09 Manufacturer's Field Reports														
			Load Interrupter Switch design and production tests	2.6.2	G												
			Unit substation transformer design tests (dry-type)														
			Unit substation transformer routine and other tests (dry-type)														
			SD-10 Operation and Maintenance Data														
			Unit substations	2.4	G												
			SD-11 Closeout Submittals														

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		16360	Assembled Operation and Maintenance Manuals	1.5.1	G												
		16415	SD-02 Shop Drawings Interior Electrical Equipment Transformer	2.9.2													
			Switchgear	2.17													
			Battery	3.14.2													
			Single line	2.24.3													
			SD-03 Product Data Fault Current and Protective Device Coordination Study														
			Manufacturer's Catalog	3.23													
			Material, Equipment, and Fixture Lists	3.23													
			Installation Procedures	3.23													
			As-Built Drawings	1.2.6													
			Onsite Tests	3.22.2	G												
			SD-06 Test Reports Factory Test Reports	3.23	G												
			Field Test Plan	3.23	G												
			Field Test Reports	3.20	G												
			SD-07 Certificates Materials and Equipment	1.4													
		16442	SD-02 Shop Drawings Switchgear Drawings	1.4.2	G												
			SD-03 Product Data														

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		16442	Switchgear	2.2	G												
			SD-06 Test Reports														
			Switchgear design tests	2.5.2	G												
			Switchgear production tests	2.5.3	G												
			Acceptance checks and tests	3.5.1	G												
			SD-10 Operation and Maintenance Data														
			Switchgear Operation and Maintenance	1.5.1	G												
			SD-11 Closeout Submittals Assembled Operation and Maintenance Manuals	1.5.2	G												
			Equipment Test Schedule	2.5.1	G												
			Request for Settings	3.5	G												
		16510	SD-03 Product Data														
			Fluorescent lighting fixtures	2.1	G												
			Fluorescent electronic ballasts	1.5.1	G												
			Fluorescent lamps	2.1.4	G												
			Incandescent lighting fixtures	2.2	G												
			Incandescent lamps	2.2.1	G												
			Dimmer switch	2.2.2	G												
			Photocell switch	3.1.6	G												
			Exit signs	2.4	G												
			Emergency lighting equipment	2.5	G												
			Occupancy sensors	2.7	G												
			Electronic dimming ballast	2.1.2	G												

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		16510	Dimming ballast controls	2.1.3	G												
			Light Level Sensor	1.5.3	G												
			SD-04 Samples														
			Lighting fixtures	1.5.2	G												
			SD-06 Test Reports														
			Operating test	3.2													
			SD-10 Operation and Maintenance Data														
			Lighting Control System	1.5.3	G												
			SD-11 Closeout Submittals														
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		16710	SD-02 Shop Drawings														
			Premises Distribution System	1.7	G												
			Installation	3.1	G												
			SD-03 Product Data														
			Record Keeping and Documentation	1.8	G												
			Spare Parts	3.1.9													
			Manufacturer's Recommendations	3.1.2	G												
			Test Plan	3.6	G												
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			SD-06 Test Reports														
			Test Reports	3.6													
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			Materials and Equipment	2.1													

SECTION 01561

ENVIRONMENTAL PROTECTION

PART 1 GENERAL

The work covered by this section consists of furnishing all labor, materials and equipment and performing all work required for the prevention of environmental pollution during, and as the result of, construction operations under this contract except for those measures set forth in the Technical Provisions of these specifications. For the purpose of this specification, environmental pollution is defined as the presence of chemical, physical, or biological elements or agents which adversely affect human health or welfare; unfavorably alter ecological balances of importance to human life or affect other species of importance to man. The control of environmental pollution requires consideration of air, water, and land.

1.1 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Facility Plan; G.

Location of storage and service facilities.

1.2 APPLICABLE REGULATIONS

The Contractor and his subcontractors in the performance of this contract, shall comply with all applicable Federal, State, and local laws and regulations concerning environmental pollution control and abatement in effect on the date of this solicitation, as well as the specific requirements stated elsewhere in the contract specifications.

1.3 NOTIFICATION

The Contracting Officer will notify the Contractor of any non-compliance with the foregoing provisions and the action to be taken. The Contractor shall, after receipt of such notice, immediately take corrective action. If the Contractor fails or refuses to comply promptly, the Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No part of time lost due to any such stop order shall be made the subject of a claim for extension of time or for excess costs or damages by the Contractor unless it is later determined that the Contractor was in compliance.

1.4 SUBCONTRACTORS

Compliance with the provisions of this section by subcontractors will be

the responsibility of the Contractor.

1.5 PROTECTION OF WATER RESOURCES

The Contractor shall not pollute streams, lakes or reservoirs with fuels, oils, bitumens, calcium chloride, acid construction wastes or other harmful materials. All work under this contract shall be performed in such a manner that objectionable conditions will not be created in streams through or adjacent to the project areas.

1.6 EROSION AND SEDIMENTATION CONTROL

Wherever the existing ground is disturbed during the construction the contractor is required to provide silt fence surrounding the disturbed area and inlet protection at any inlet within the silt fence perimeter. These areas include but are not limited to: temporary lab trailer site, ADA ramp and parking area site, air intake for AHU-8, contractor's storage area, construction trailers and any other area disturbed by the contractor.

1.7 BURNING

Burning will be allowed only if permitted in other sections of the specifications or authorized in writing by the Contracting Officer. The specific time, location and manner of burning shall be subject to the approval of the Contracting Officer. Fires shall be confined to a closed vessel, guarded at all times and shall be under constant surveillance until they have burned out or have been extinguished. All burning shall be so thorough that the materials will be reduced to ashes.

1.8 DUST CONTROL

The Contractor shall maintain all work area free from dust which would contribute to air pollution. Approved temporary methods of stabilization consisting of sprinkling, chemical treatment, light bituminous treatment or similar methods will be permitted to control dust. Sprinkling, where used, must be repeated at such intervals as to keep all parts of the disturbed area at least damp at all times. Dust control shall be performed as the work proceeds and whenever a dust nuisance or hazard occurs.

1.9 PROTECTION OF LAND RESOURCES

1.9.1 General

It is intended that the land resources within the project boundaries and outside the limits of permanent work performed under this contract be preserved in their present condition or be restored to a condition after completion of construction that will appear to be natural and not detract from the appearance of the project. Insofar as possible, the Contractor shall confine his construction activities to areas defined by the plans and specifications or to be cleared for other operations. The following additional requirements are intended to supplement and clarify the requirements of the CONTRACT CLAUSES:

1.9.2 Protection of trees retained

1.9.2.1 Contractors Responsibility

The Contractor shall be responsible for the protection of the tops, trunks and roots of all existing trees that are to be retained on the site.

Protection shall be maintained until all work in the vicinity has been completed and shall not be removed without the consent of the Contracting Officer. If the Contracting Officer finds that the protective devices are insufficient, additional protection devices shall be installed.

1.9.2.2 Stockpiling

Heavy equipment, vehicular traffic, or stockpiling of any materials shall not be permitted within the drip line of trees to be retained.

1.9.2.3 Storage

No toxic materials shall be stored within 100 feet (30.5 m) from the drip line of trees to be retained.

1.9.2.4 Confined Area

Except for areas shown on the plans to be cleared, the Contractor shall not deface, injure, or destroy trees or shrubs, nor remove or cut them without special authority. Existing trees near by trees shall not be used for anchorage unless specifically authorized by the Contracting Officer. Where such special emergency use is permitted, the Contractor shall first adequately protect the trunk with a sufficient thickness of burlap over which softwood cleats shall be tied.

1.9.2.5 Tree Defacing

No protective devices, signs, utility boxes or other objects shall be nailed to trees to be retained on the site.

1.9.3 Restoration of landscape damage

Any trees or other landscape feature scarred or damaged by the Contractor's operations shall be restored as nearly as possible to its original condition at the Contractor's expense. The Contracting Officer will decide what method of restoration shall be used, and whether damaged trees shall be treated and healed or removed and disposed of. All scars made on trees, designated on the plans to remain, and all cuts for the removal of limbs larger than 1-inch in diameter shall be coated as soon as possible with an approved tree wound dressing. All trimming or pruning shall be performed in an approved manner by experienced workmen with saws or pruning shears. Tree trimming with axes will not be permitted. Where tree climbing is necessary, the use of climbing spurs will not be permitted. Trees that are to remain, either within or outside established clearing limits, that are subsequently damaged by the Contractor and are beyond saving in the opinion of the Contracting Officer, shall be immediately removed and replaced with a nursery-grown tree of the same species. Replacement trees shall measure no less than 2 inches in diameter at 6 inches above the ground level.

1.9.4 Location of Storage and Services Facilities

The location on Government property of the Contractor's storage and service facilities, required temporarily in the performance of the work, shall be upon cleared portions of the job site or areas to be cleared. The preservation of the landscape shall be an imperative consideration in the selection of all sites and in the construction of buildings. A facility plan showing storage and service facilities shall be submitted for approval to the Contracting Officer. Where buildings or platforms are constructed

on slopes, the Contracting Officer may require cribbing to be used to obtain level foundations. Benching or leveling of earth may not be allowed, depending on the location of the proposed facility.

1.9.5 Temporary Excavation and Embankment

If the Contractor proposes to construct temporary roads, embankments or excavations for plant and/or work areas, he shall submit a temporary plan for approval prior to scheduled start of such temporary work.

1.10 MEASUREMENT AND PAYMENT

Except as noted in paragraph, PERFORMANCE AND PAYMENT BOND REIMBURSEMENT above, no separate measurement and payment will be made for the work performed in this Section 01561 ENVIRONMENTAL PROTECTION specified herein and all costs in connection therewith shall be considered a subsidiary obligation of the Contractor, and shall be included in the overall cost of the work.

PART 2 PRODUCT
NOT APPLICABLE

PART 3 EXECUTION
NOT APPLICABLE

-- End of Section --

SECTION 08120 - Revised: DEC 17, 2003

ALUMINUM DOORS, FRAMES AND VIEW WINDOWS

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

ALUMINUM ASSOCIATION (AA)

AA DAF-45 (1997) Aluminum Finishes

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM A 36/A 36M (2003a) Carbon Structural Steel

ASTM B 209 (2001) Aluminum and Aluminum-Alloy Sheet and Plate

ASTM B 221M (2000) Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric)

ASTM B 221 (2000) Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes

ASTM E 283 (1991) Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen

ASTM E 331 (1996) Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference

1.2 PERFORMANCE REQUIREMENTS

1.2.1 Structural

Shapes and thicknesses of framing members shall be sufficient to withstand a design wind load of not less than 30 pounds per square foot of supported area the design wind load indicated with a deflection of not more than 1/175 times the length of the member and a safety factor of not less than 1.65. Provide glazing beads, moldings, and trim of not less than 0.050 inch nominal thickness.

1.2.2 Air Infiltration

When tested in accordance with ASTM E 283, air infiltration shall not exceed 0.06 cubic feet per minute per square foot of fixed area at a test pressure of 6.24 pounds per square foot (50 mile per hour wind).

1.2.3 Water Penetration

When tested in accordance with ASTM E 331, there shall be no water penetration at a pressure of 8 pounds per square foot of fixed area.

1.3 SUBMITTALS

Submit the following in accordance with Section 01330, "Submittal Procedures."

SD-02 Shop Drawings

Doors, frames and view windows; G

Show elevations of each door and view window type, size of doors, view windows and frames, metal gages, details of door, frame and view window construction, methods of anchorage, glazing details, weatherstripping, provisions for and location of hardware, and details of installation.

SD-08 Manufacturer's Instructions

Doors and frames

Submit detail specifications and instructions for installation, adjustments, cleaning, and maintenance.

1.4 DELIVERY, STORAGE, AND HANDLING

Inspect materials delivered to the site for damage. Unload and store with minimum handling. Provide storage space in dry location with adequate ventilation, free from dust or water, and easily accessible for inspection and handling. Stack materials on nonabsorptive strips or wood platforms. Do not cover doors and frames with tarps, polyethylene film, or similar coverings. Protect finished surfaces during shipping and handling using manufacturer's standard method, except that no coatings or lacquers shall be applied to surfaces to which calking and glazing compounds must adhere.

PART 2 PRODUCTS

2.1 DOORS, FRAMES AND VIEW WINDOWS

Swing-type aluminum doors and frames of size, design, and location indicated. Provide doors complete with frames, framing members, subframes, transoms, adjoining sidelights. Provide view windows as specified.

2.2 MATERIALS

2.2.1 Anchors

Stainless steel or steel with hot-dipped galvanized finish.

2.2.2 Weatherstripping

Continuous wool pile, silicone treated, or type recommended by door manufacturer.

2.2.3 Aluminum Alloy for Doors and Frames

ASTM B 221, Alloy 6063-T5 for extrusions. ASTM B 209, alloy and temper best suited for aluminum sheets and strips.

2.2.4 Fasteners

Hard aluminum or stainless steel.

2.2.5 Structural Steel

ASTM A 36/A 36M.

2.2.6 Aluminum Paint

Type as recommended by aluminum door manufacturer.

2.3 FABRICATION

2.3.1 Aluminum Frames and View Windows

Extruded aluminum shapes with contours approximately as indicated. Provide removable glass stops and glazing beads for frames and view windows accommodating fixed glass. Use countersunk stainless steel Phillips screws for exposed fastenings, and space not more than 12 inches o.c. Mill joints in frame members to a hairline fit, reinforce, and secure mechanically.

2.3.2 Aluminum Doors

Of type, size, and design indicated and not less than 1 3/4 inches thick. Minimum wall thickness, 0.125 inch, except beads and trim, 0.050 inch. Door sizes shown are nominal and shall include standard clearances as follows: 0.093 inch at hinge and lock stiles, 0.125 inch between meeting stiles, 0.125 inch at top rails, 0.187 inch between bottom and threshold, and 0.687 inch between bottom and floor. Bevel single-acting doors 0.063 or 0.125 inch at lock, hinge, and meeting stile edges. Double-acting doors shall have rounded edges at hinge stile, lock stile, and meeting stile edges.

2.3.2.1 Full Glazed Stile and Rail Doors

Doors shall have narrow stiles and rails as indicated. Fabricate from extruded aluminum hollow seamless tubes or from a combination of open-shaped members interlocked or welded together. Fasten top and bottom rail together by means of welding or by 3/8 or 1/2 inch diameter cadmium-plated tensioned steel tie rods. Provide an adjustable mechanism of jack screws or other methods in the top rail to allow for minor clearance adjustments after installation.

2.3.2.2 Flush Doors

Use facing sheets with a plain smooth surface. Use the following construction:

- a. A phenolic resin-impregnated kraft paper honeycomb core. Use aluminum facing sheets not less than 0.050 inch thick and form into two pans which will eliminate seams on the faces. Bond honeycomb core to the face sheets using an epoxy resin or contact cement-type adhesive.

2.3.3 Welding and Fastening

Where possible, locate welds on unexposed surfaces. Dress welds on exposed surfaces smoothly. Select welding rods, filler wire, and flux to produce a uniform texture and color in finished work. Remove flux and spatter from surfaces immediately after welding. Exposed screws or bolts will be permitted only in inconspicuous locations, and shall have countersunk heads. Weld concealed reinforcements for hardware in place.

2.3.4 Weatherstripping

Provide on stiles and rails of exterior doors. Fit into slots which are integral with doors or frames. Weatherstripping shall be replaceable without special tools, and adjustable at meeting rails of pairs of doors. Installation shall allow doors to swing freely and close positively. Air leakage of a single leaf weatherstripped door shall not exceed 0.5 cubic feet per minute of air per square foot of door area when tested in accordance with ASTM E 283.

2.3.5 Anchors

On the backs of subframes, provide anchors of the sizes and shapes indicated for securing subframes to adjacent construction. Anchor transom bars at ends and mullions at head and sill. Where indicated, reinforce vertical mullions with structural steel members of sufficient length to extend up to the overhead structural slab or framing and secure thereto. Reinforce and anchor freestanding door frames to floor construction as indicated on approved shop drawings and in accordance with manufacturer's recommendation. Place anchors as indicated near top and bottom of each jamb and at intermediate points not more than 25 inches apart.

2.3.6 Provisions for Hardware

Hardware is specified in Section 08710, "Door Hardware." Deliver hardware templates and hardware (except field-applied hardware) to the door manufacturer for use in fabrication of aluminum doors and frames. Cut, reinforce, drill, and tap doors and frames at the factory to receive template hardware. Provide doors to receive surface-applied hardware, except push plates, kick plates, and mop plates, with reinforcing only; drill and tap in the field. Provide hardware reinforcements of stainless steel or steel with hot-dipped galvanized finish, and secure with stainless steel screws. Provide reinforcement in core of flush doors as required to receive locks, door closers, and other hardware.

2.3.7 Provisions for Glazing

Provide extruded aluminum snap-in glazing beads on interior side of doors and on view windows. Provide extruded aluminum, theft-proof, snap-in glazing beads or fixed glazing beads on exterior or security side of doors. Glazing beads shall have vinyl insert glazing gaskets. Design glazing beads to receive glass of thickness indicated or specified. Glazing is specified in Section 08810, "GLASS AND GLAZING."

2.3.8 Finishes

Provide exposed aluminum surfaces with factory finish of anodic coating .

2.3.8.1 Anodic Coating

Clean exposed aluminum surfaces and provide an anodized finish conforming to AA DAF-45. Finish shall be natural, designation AA-M10-C22-A31, Architectural Class II 0.4 mil to 0.7 mil natural designation AA-M10-C22-A41, Architectural Class I 0.7 mil or thicker integral color-anodized, designation AA-M10-C22-A32, Architectural Class II 0.4 mil to 0.7 mil designation AA-M10-C22-A42, Architectural Class I 0.7 mil or thicker electrolytically deposited color-anodized, designation AA-M10-C22-A34, Architectural Class II 0.4 mil to 0.7 mil electrolytically deposited color-anodized, designation AA-M10-C22-A44, Architectural Class I 0.7 mil or thicker. Color shall be as indicated.

PART 3 EXECUTION

3.1 INSTALLATION

Plumb, square, level, and align frames and framing members to receive doors, view windows, transoms, and adjoining sidelights. Anchor frames to adjacent construction as indicated and in accordance with manufacturer's printed instructions. Anchor bottom of each frame to rough floor construction with 3/32 inch thick stainless steel angle clips secured to back of each jamb and to floor construction; use stainless steel bolts and expansion rivets for fastening clip anchors. Seal metal-to-metal joints between framing members as specified in Section 07920, "Joint Sealants." Hang doors to produce clearances specified in paragraph entitled "Aluminum Doors," of this section. After erection and glazing, adjust doors and hardware to operate properly.

3.2 PROTECTION FROM DISSIMILAR MATERIALS

3.2.1 Dissimilar Metals

Where aluminum surfaces come in contact with metals other than stainless steel, zinc, or small areas of white bronze, protect from direct contact by one or a combination of the following methods:

- a. Paint the dissimilar metal with one coat of heavy-bodied bituminous paint.
- b. Apply a good quality elastomeric sealant between the aluminum and the dissimilar metal.
- c. Paint the dissimilar metal with one coat of primer and one coat of aluminum paint.
- d. Use a nonabsorptive tape or gasket in permanently dry locations.

3.2.2 Drainage from Dissimilar Metals

In locations where drainage from dissimilar metals has direct contact with aluminum, provide protective paint, to prevent aluminum discoloration.

3.2.3 Masonry and Concrete

Provide aluminum surfaces in contact with mortar, concrete, or other masonry materials with one coat of heavy-bodied bituminous paint.

3.2.4 Wood or Other Absorptive Materials

Provide aluminum surfaces in contact with absorptive materials subject to frequent moisture, and aluminum surfaces in contact with treated wood, with two coats of aluminum paint or one coat of heavy-bodied bituminous paint. In lieu of painting the aluminum, the Contractor shall have the option of painting the wood or other absorptive surface with two coats of aluminum paint and sealing the joints with elastomeric sealant.

3.3 CLEANING

Upon completion of installation, clean door, frame and view window surfaces in accordance with door manufacturer's recommended procedure. Do not use abrasive, caustic, or acid cleaning agents.

3.4 PROTECTION

Protect doors, frames and view windows from damage and from contamination by other materials such as cement mortar. Prior to completion and acceptance of the work, restore damaged doors and frames to original condition, or replace with new ones.

-- End of Section --

SECTION 09650

RESILIENT FLOORING

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM D 2240	(2002) Rubber Property - Durometer Hardness
ASTM D 4078	(1992; R 1996) Water Emulsion Floor Polish
ASTM E 648	(2000) Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source
ASTM E 662	(2001) Specific Optical Density of Smoke Generated by Solid Materials
ASTM F 510	(1993; R 1999) Resistance to Abrasion of Resilient Floor Coverings Using an Abrader with a Grit Feed Method
ASTM F 1066	(1999) Vinyl Composition Floor Tile
ASTM F 1303	(1999) Sheet Vinyl Floor Covering with Backing
ASTM F 1344	(2000) Rubber Floor Tile
ASTM F 1700	(1999) Solid Vinyl Floor Tile
ASTM F 1913	(1998) Vinyl Sheet Floor Covering Without Backing

1.2 FIRE RESISTANCE REQUIREMENTS

Flooring in corridors and exits shall have a minimum average critical radiant flux of 0.22 watts per square centimeter when tested in accordance with ASTM E 648. The smoke density rating shall be less than 450 when tested in accordance with ASTM E 662.

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only or as otherwise designated. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Tile Flooring; G

Drawings indicating location of seams, integral cove, including details of outside corner and cap, and edge strips.

SD-03 Product Data

Tile Flooring; G
Integral Coved Base; G
Adhesive for Vinyl Composition Tile; G
Adhesive for Wall Base; G

Manufacturer's descriptive data and installation instructions including cleaning and maintenance instructions.

SD-04 Samples

Tile Flooring; G
Wall Base; G

Three samples of each indicated color and type of flooring and base. Sample size shall be minimum 2-1/2 x 4 inches.

SD-06 Test Reports

Moisture Test; G

Copies of test reports showing that representative product samples of the flooring proposed for use have been tested by an independent testing laboratory within the past three years or when formulation change occurred and conforms to the requirements specified.

SD-08 Manufacturer's Instructions

Tile Flooring; G

Copies of flooring manufacturer's recommended installation procedures.

SD-10 Operation and Maintenance Data

Cleaning, patching, repair and replacement procedures and materials;
G

1.4 DELIVERY AND STORAGE

Materials shall be delivered to the building site in original unopened containers bearing the manufacturer's name, brands, stock names, production run, project identification, and handling instructions. Materials shall be stored in a clean dry area with temperature maintained above 70 degrees F for 2 days prior to installation, and shall be stacked according to manufacturer's recommendations. Materials shall be protected from the direct flow of heat from hot-air registers, radiators and other heating fixtures and appliances. Do not open containers until materials are to be used, except for inspection to verify compliance with requirements.

1.5 ENVIRONMENTAL REQUIREMENTS

a. Areas to receive resilient flooring shall be maintained at a temperature above 70 degrees F and below 100 degrees F for 2 days before application, during application and 2 days after application . A minimum temperature of 55 degrees F shall be maintained thereafter.

b. Provide adequate ventilation to remove moisture from area and to comply with regulations limiting concentrations of hazardous vapors.

1.6 SCHEDULING

Resilient flooring application shall be scheduled after the completion of other work which would damage the finished surface of the flooring.

1.7 WARRANTY

Manufacturer's standard performance guarantees or warranties that extend beyond a one year period shall be provided.

1.8 EXTRA MATERIALS

Extra flooring material of each color and pattern shall be furnished at the rate of 5 tiles for each 1000 tiles installed. Extra materials shall be from the same lot as those installed. Extra base material composed of 20 linear feet of each color shall be furnished. All extra materials shall be packaged in original containers, properly marked.

PART 2 PRODUCTS

2.1 UNDERLAYMENT

Underlayment shall be latex type, as recommended by flooring manufacturer. Wood and hardboard underlayments are specified in Section 06100N ROUGH CARPENTRY.

2.2 TILE FLOORING

2.2.1 Vinyl-Composition Style A

Vinyl-composition tile shall conform to ASTM F 1066, Class 1, (solid color tile) or Class 2, (through pattern tile), Composition 1, asbestos-free, and shall be 12 inches square and 3/32 inch thick. Tile shall have the color and pattern uniformly distributed throughout the thickness of the tile. Flooring in any one continuous area shall be from the same lot and shall have the same shade and pattern.

2.2.2 Solid Vinyl Type A

Solid vinyl tile shall conform to ASTM F 1700 Class I, Type A or B. Tile shall be 12 inches square by 1/8 inch thick. Tiles shall be of solid unlaminate construction.

2.2.3 Stair Treads, Risers, and Stringers

Treads, risers, and stringers shall conform to composition vinyl compounded from virgin polymer or copolymer of vinyl chloride resin, plasticized with phosphate or phthalate esters. Overall thickness shall be not less than

3/32 inch. Design shall be either a one piece nosing/tread/riser or a two piece nosing/tread with a matching coved riser. Installation shall include stringer angles on both the wall and banister sides, and landing trim. Surface of treads shall be smooth with abrasive non-slip inserts.

2.2.4 Lining Felt

Asphalt felt shall be as recommended by flooring manufacturer.

2.2.5 Adhesive for Vinyl Composition Tile

Cutback adhesive for installation of tile over concrete above, on or above grade. Moisture and alkali resistant. Non-asbestos formulated or a latex adhesive recommended by flooring manufacturer.

2.2.6 Adhesive for Wall Base

Adhesive for wall base shall be emulsified acrylic latex; non-flammable.

2.3 STRIPS

2.3.1 Edge

Provide carpet reducer or tile reducer of vinyl and approved by flooring manufacturer. Limit vertical lips in edge strips to 1/4 inch; limit total rise to 1/2 inch.

2.3.2 Feature

Feature strips shall be vinyl, 1 inch wide, and of thickness to match the flooring. Color shall be as indicated.

2.3.3 Transition

A vinyl transition strip tapered to meet abutting material shall be provided.

2.4 WALL BASE

Base shall be manufacturers standard vinyl, straight style (installed with carpet) coved style (installed with resilient flooring) butt toe cove (installed with 1/8 inch thick flooring). Base shall be 4 inches high and a minimum 1/8 inch thick, in approved color, and in matte finish. Job Formed corners shall be furnished. Use flexible base to conform to irregularities in walls, partitions, and floors. Provide premolded corners in matching size, shape, and color for all right-angle inside and outside corners.

2.5 POLISH/FINISH

Polish shall conform to ASTM D 4078. Use flooring manufacturer's standard high-solids finish for shine without buffing; non-flammable; compatible with factory-applied finish; may be buffed or burnished for maximum gloss.

2.6 CAULKING AND SEALANTS

Caulking and sealants shall be in accordance with Section 07900A JOINT SEALING.

2.7 MANUFACTURER'S COLOR AND TEXTURE

Color and distinct pattern shall be uniformly distributed throughout thickness of tile. Color and texture shall be in accordance with Section 09915 COLOR SCHEDULE. Flooring in continuous area or replacement of damaged flooring in continuous area shall be from same production run with same shade and pattern,

PART 3 EXECUTION

3.1 EXAMINATION/VERIFICATION OF CONDITIONS

The Contractor shall examine and verify that site conditions are in agreement with the design package and shall report all conditions that will prevent a proper installation. The Contractor shall not take any corrective action without written permission from the Government.

3.1.1 Removal of Existing Flooring

Remove existing flooring and adhesive in accordance with Section 02220 DEMOLITION and in accordance with new flooring manufacturer's printed instructions.

3.1.2 Surface Examination

Examine surfaces to receive sheet vinyl flooring. Correct conditions which will impair proper installation, including:

- a. Variation in surface level greater than 1/8 inch in 10 feet.
- b. , pits, dents, protrusions.
- c. 1/16 inch wide or wider cracks.
- d. Chalk and dust.
- e. Oil, paint, wax, and other deleterious substances.
- f. Moisture.

3.2 SURFACE PREPARATION

Flooring shall be in a smooth, true, level plane, except where indicated as sloped. Before any work under this section is begun, all defects such as rough or scaling concrete, low spots, high spots, and uneven surfaces shall have been corrected, and all damaged portions of concrete slabs shall have been repaired as recommended by the flooring manufacturer. Concrete curing compounds, other than the type that does not adversely affect adhesion, shall be entirely removed from the slabs. Paint, varnish, oils, release agents, sealers, waxers, and adhesives shall be removed, as recommended by the flooring manufacturer.

3.2.1 Concrete Floor

Grind ridges and other uneven surfaces smooth. Cut out and fill cracks 1/16 inch or wider with crack filler. Provide mastic underlayment to fill remaining holes, cracks, and depressions and for smoothing, leveling, or

creating a feather edge in accordance with instructions of mastic manufacturer. After cleaning and removal of loose particles, prime chalky or dusty surfaces with primer recommended by flooring manufacturer.

3.2.2 Final Cleaning of Substrate

Clean substrate with broom or vacuum immediately prior to the installation of flooring.

3.3 MOISTURE TEST

The suitability of the concrete subfloor for receiving the resilient flooring with regard to moisture content shall be determined by a moisture test as recommended by the flooring manufacturer.

3.4 GENERAL APPLICATION REQUIREMENTS

To avoid damage, install flooring after other work in same area has been completed. Apply flooring and accessories in accordance with manufacturer's directions, using experienced workers. Detailed requirements follow:

- a. Adhesives: Do not allow smoking, open flames or other sources of ignition in area where solvent-containing adhesives are being used or spread, after posting conspicuous signs reading "NO SMOKING OR OPEN FLAME".
- b. Flooring: Apply in patterns indicated. Start in center of room or area, and work toward edges. Keep tile lines and joints square, symmetrical, tight, and even. Keep each floor in true, level plane, except where slope is indicated. Vary width of edge tiles as necessary to maintain full-size tiles in field, but no edge tile shall be less than one-half full size, except where irregular-shape makes it impossible.
- c. Cutting: Cut flooring edges and scribe to walls and partitions after field flooring has been applied.
- d. Edge Strips: Provide edging strips where flooring terminates at points higher than contiguous finished flooring, except where thresholds are provided. Secure plastic strips with adhesive.

3.5 INSTALLATION OF VINYL-COMPOSITION TILE AND SOLID VINYL TILE

Tile flooring shall be installed with adhesive in accordance with the manufacturer's installation instructions. Tile lines and joints shall be kept square, symmetrical, tight, and even. Edge width shall vary as necessary to maintain full-size tiles in the field, but no edge tile shall be less than one-half the field tile size, except where irregular shaped rooms make it impossible. Flooring shall be cut to, and fitted around, all permanent fixtures, built-in furniture and cabinets, pipes, and outlets. Edge tile shall be cut, fitted, and scribed to walls and partitions after field flooring has been applied.

3.6 INSTALLATION OF FEATURE STRIPS

Edge strips shall be secured with adhesive as recommended by the manufacturer. Edge strips shall be provided at locations where flooring termination is higher than the adjacent finished flooring, except at

doorways where thresholds are provided. At doors, locate edge strip under door centerline.

3.7 INSTALLATION OF WALL BASE

Wall base shall be installed with adhesive in accordance with the manufacturer's written instructions. Base joints shall be tight and base shall be even with adjacent resilient flooring. Voids along the top edge of base at masonry walls shall be filled with caulk. Where wall base is used in conjunction with vinyl wall covering, cut vinyl wall covering off 1/4 inch below top of base. Roll entire vertical surface of base with hand roller, and press toe of base with a straight piece of wood to ensure proper alignment. Avoid excess adhesive in corners.

3.8 INSTALLATION OF TREADS AND RISERS

Stair treads and risers shall be installed with adhesive in accordance with the manufacturer's written installation instructions. Treads and risers shall cover the full width of the stairs. Stairs wider than manufacturer's standard lengths shall have equal length pieces butted together to cover the treads.

3.9 INSTALLATION OF INTEGRAL COVED BASE

Integral coved base shall be formed by extending the flooring material 4 inches onto the wall surface. Cove shall be supported by a plastic, rubber or wood coved filler having a minimum radius of 3/4 inch. Coved base shall be installed with adhesive in accordance with the manufacturer's written instructions. A metal or vinyl cap strip shall be provided at the top of the base. Voids along the top edge of base at masonry walls shall be filled with caulk.

3.10 CLEANING

Immediately upon completion of installation of tile in a room or an area, flooring and adjacent surfaces shall be dry-cleaned to remove all surplus adhesive. No sooner than 5 days after installation, flooring shall be washed with a nonalkaline cleaning solution, rinsed thoroughly with clear cold water, and, except for raised pattern rubber flooring, rubber tile and sheet rubber flooring, rubber stair treads, and static control vinyl tile, given two coats of polish in accordance with manufacturers written instructions. Raised pattern rubber flooring, rubber tile and sheet rubber flooring, rubber stair treads, and static control vinyl tile shall be cleaned and maintained as recommended by the manufacturer.

a. Vinyl flooring, except prewaxed flooring and flooring designated as no-wax or never-wax by manufacturer, shall have two coats of polish applied and each coat buffed to an even luster with an electric polishing machine, using a lamb's wool pad when dry buffing.

b. Translucent or transparent-surfaced sheet vinyl flooring shall be cleaned by damp mopping. Do not buff finish. Follow flooring manufacturer's cleaning and maintenance instructions.

3.11 PROTECTION

From the time of laying until acceptance, flooring shall be protected from damage as recommended by the flooring manufacturer. Flooring which becomes damaged, loose, broken, or curled and cove base which is not tight to

backing fillet shall be removed and replaced.

-- End of Section --

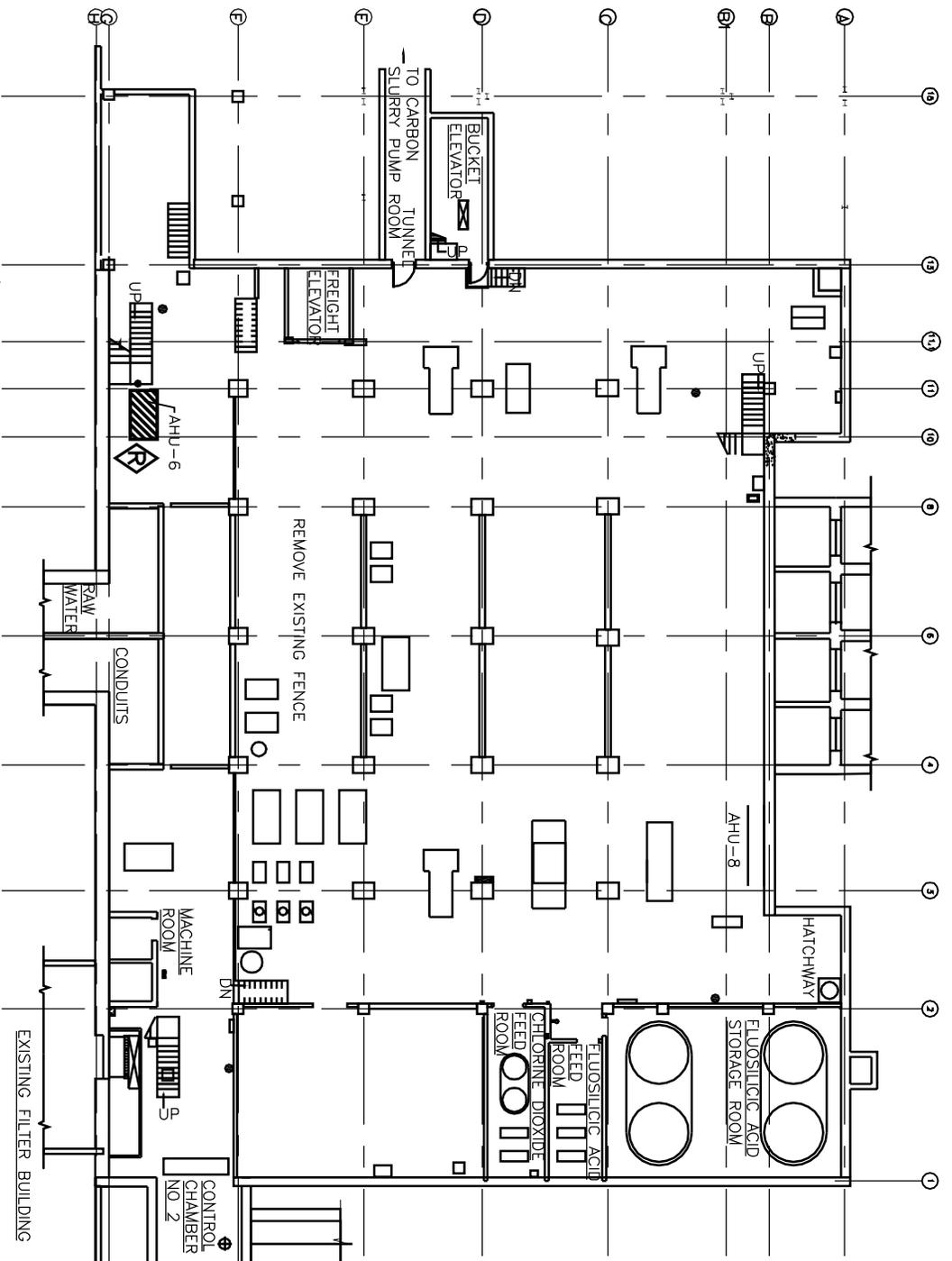
Section 13280 - Table 1
 1

Work Task Designation #	Location of Work Task	Brief Description of Material to be Abated, Type of Asbestos and % of Asbestos Content		Abatement Technique to be Used	OSHA Asbestos Class Designation for Work Task	EPA NESHAP Friability De Work Task		
		Description	Chrysotile			Amphibole	Friable	Non-Friable Category I
1	2nd f, m216, lunch rm	spray applied ceiling material(outer layer)	25%	ND1	Removal	I	X	
	room 216, lunch room, chem building	spray applied ceiling material	25%	ND1	See Above	See Above		See Above
2	2nd floor,office, rm 223	lab chiefs office, spray applied ceiling(outer layer)	25%	ND1	Removal	I	X	
3	1st floor control room	spray applied ceiling(outer layer)near HVAC panel	25%	ND1	Removal	I	X	
	1st floor control room	spray applied ceiling material	25%	ND1	See Above	See Above		See Above
4	1st floor control room	trowel applied ceiling(outer layer)behind main contr pan	15%	ND1	Repair	I	X	
	behind control panel, 1st floor	trowel applied ceiling material	15%	ND1	See Above	See Above		See Above
5	office 228, chem building	spray applied ceiling material	25%	ND1	Removal	I	X	
6	no.202, Elevator Floor	elevator-tan flooring	5%	ND1	Removal	II		X
7	no. 201, (Prop Organics Lab)	lab gray vinyl flooring	5%	ND1	Removal	II		X
8	1st floor filter building Operators Lab	9**9" light green floor tile	2%	ND1	Removal	II		X
Believe Not Disturbed	basement	bend connected to large vertical line	60%	ND1				
Believe Not Disturbed	1st floor cont room stor HVAC Closet	plaster ceil,stor rm behind HVAC panel,finish coat	25%	ND1				
Believe Not Disturbed	basement	elbow connected to large vertical line	20%	ND1				
Believe Not Disturbed	McMillan Exterior Steam Line	white fibrous block insulation	15%	15%				
Believe Not Disturbed	basement	elbow of large vertical water line thru wall	15%	ND1				
Believe Not Disturbed	1st floor alum room	upper layer plaster ceiling	10%	ND1				
Believe Not Disturbed	1st floor, cont rm stor HVAC Closet	plaster ceil,stor rm behind HVAC panel,middle coat	10%	ND1				
Believe Not Disturbed	2nd floor, silo room	pipe insulation near catwalk	5%	ND1				
Believe Not Disturbed	no. 141, 1st floor control room	control room - tan vinyl flooring	2%	ND1				
Believe Not Disturbed	no. 131, first floor storage by sulfur diox	storage - vinyl flooring-reddish	2%	ND1				
Believe Previously Removed	basement	elbow connected to steam converter	10%	ND1				
Believe Previously Removed	basement	insulation on hot water tank	5%	ND1				
Not in Work Area	PSM 93	white fibrous gasket, black surface coating	85%	ND1				
Not in Work Area	Dalecarlie Sweep Arms	white fibrous clutch plate	45%	ND1				
Remove Fitting Undisturbed	2nd floor silo room	elbow steam line near ahu2	10%	ND1				
Remove Fitting Undisturbed	2nd floor silo room	ch wat suppl to ahu1	10%	ND1				
Remove Fitting Undisturbed	2nd floor silo room	elbow steam line near ahu8	10%	ND1				
Remove Fitting Undisturbed	2nd floor silo room	elbow on steam supply at ahu#9	10%	ND1				
Remove Fitting Undisturbed	2nd floor silo room	chilled water return ahu1	5%	ND1				
Remove Duct Undisturbed	2nd floor, corridor #1	HVAC duct above hall, access thru men's bathroom	10%	ND1				
Remove AHU Undisturbed	2nd floor, silo room	insulation on ahu#2	60%	ND1				
Remove AHU Undisturbed	2nd floor, silo room	ahu #8, insulation	10%	ND1				
Remove AHU Undisturbed	basement	east landing, ahu#6	5%	ND1				

The information presented here is abstracted from reports prepared by others and provided by the Washington Aqueduct Division. The reports are presented in Specifications Section 13280. The Contractor is required to verify that all positive asbestos results from the original reports are included in this Table. Data presented in the reports shall govern over this Table in case of discrepancy. Non-Detect and Trace results presented in the original reports are not included in this Table. Percentages are percentage of the material tested found to be asbestos. The abbreviation "ND1" indicates non-detection of asbestos. Where items are indicated to be removed undisturbed, the item must be sealed, labeled and disposed of in accordance with applicable regulation by qualified personnel. If asbestos is damaged during removal of the item, the operation will be reclassified to a Class I. See attached Sketches 13280-1, -2 and -3 for general location of previously identified asbestos materials.

7		8			9		10		11		12	
signation for		Form and Condition of ACM			Quantity		Response Action Detail Sheet Number for Work Task	Setup Detail Sheet Numbers for Work Task	Original Reports Page Reference	Original Reports Sample Date		
Non-Friable Category II	Form	Condition - Good	Condition - Fair	Condition - Poor	Linear Feet	Square Feet						
	IA	X			N/A	300	44	2,3,4,9,14,16,17,18	14	12/4/1989		
	See Above		See Above		See Above	See Above	See Above	See Above	47	12/4/1989		
	IA	X			N/A	250	44	2,3,4,9,14,16,17,20	15	12/4/1989		
	IA	X			N/A	1,000	44	2,3,4,9,14,16,17,21	16	12/4/1989		
	See Above		See Above		See Above	See Above	See Above	See Above	51	12/4/1989		
	IA		X		N/A	500	31	7,9,14,	16	12/4/1989		
	See Above		See Above		See Above	See Above	See Above	See Above	52	12/4/1989		
	IA	X			N/A	400	44	2,3,4,9,14,16,17,18	48	12/4/1989		
	IA		X		N/A	60	57	21,4,9,14,18,21	23	9/11/1990		
	IA		X		N/A	1,500	57	21,4,9,14,18,21	25	9/11/1990		
	IA		X		N/A	1,000	57	21,4,9,14,18,21	55	12/4/1989		
									20	7/5/1990		
									14	11/21/1989		
									20	7/5/1990		
									4	1/26/1994		
									21	7/5/1990		
									5	4/27/1989		
									14	11/21/1989		
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									7	1/23/1989		
									13	11/21/1989		
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									9	10/5/1988		

asbestos removal



**ASBESTOS
CONDITION LEGEND**

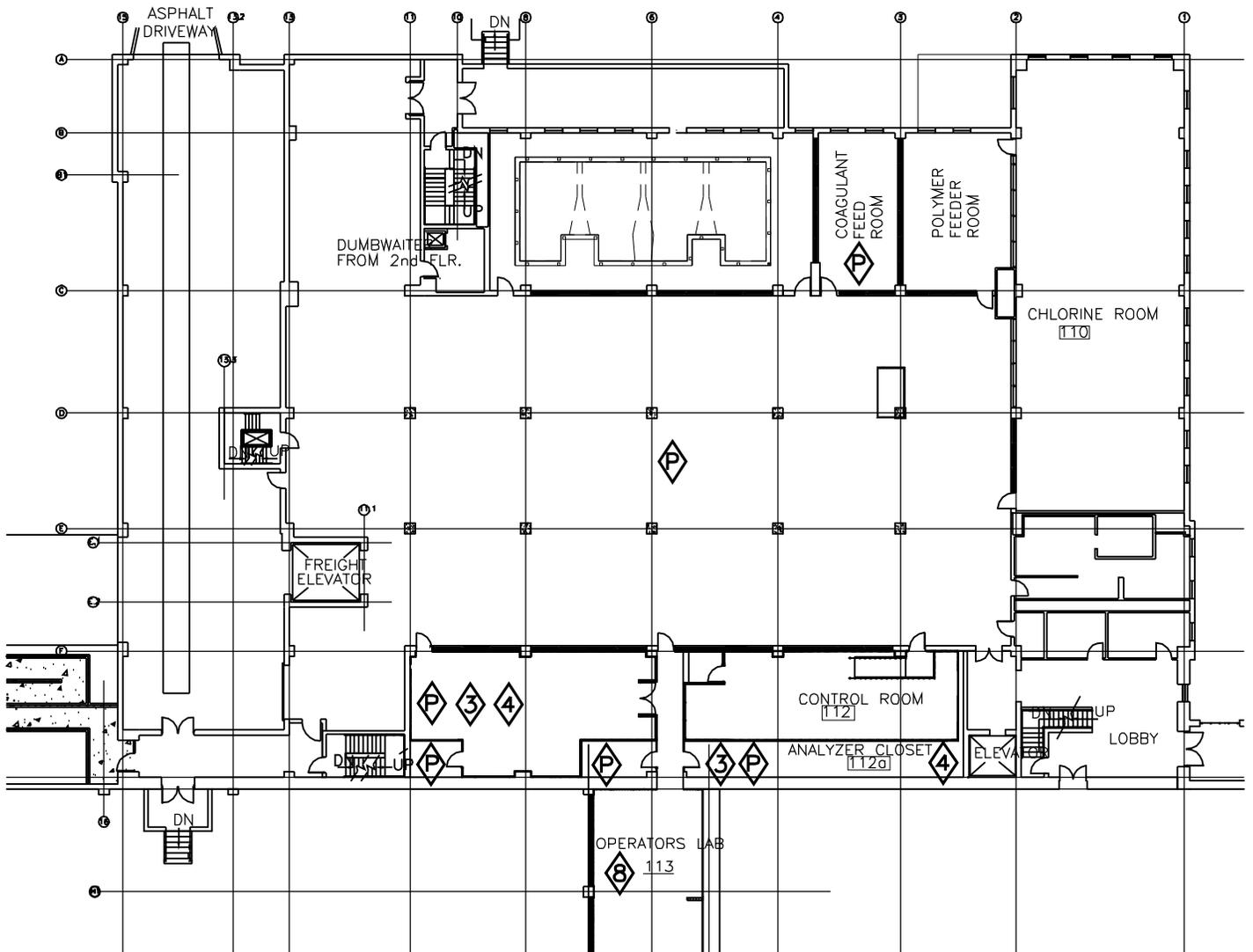
- # WORK TASK DESCRIPTION # SEE TABLE 1 SPECIFICATION 01380
- P ASBESTOS BELIEVED PRESENT, NOT TO BE DISTURBED
- R ASBESTOS BELIEVED PRESENT, REMOVE ITEM WITHOUT DISTURBING ASBESTOS

P - FOR VARIOUS FITTINGS IN THE BASEMENT

SKETCH SK 13280-1
DATE: DEC 10, 2003



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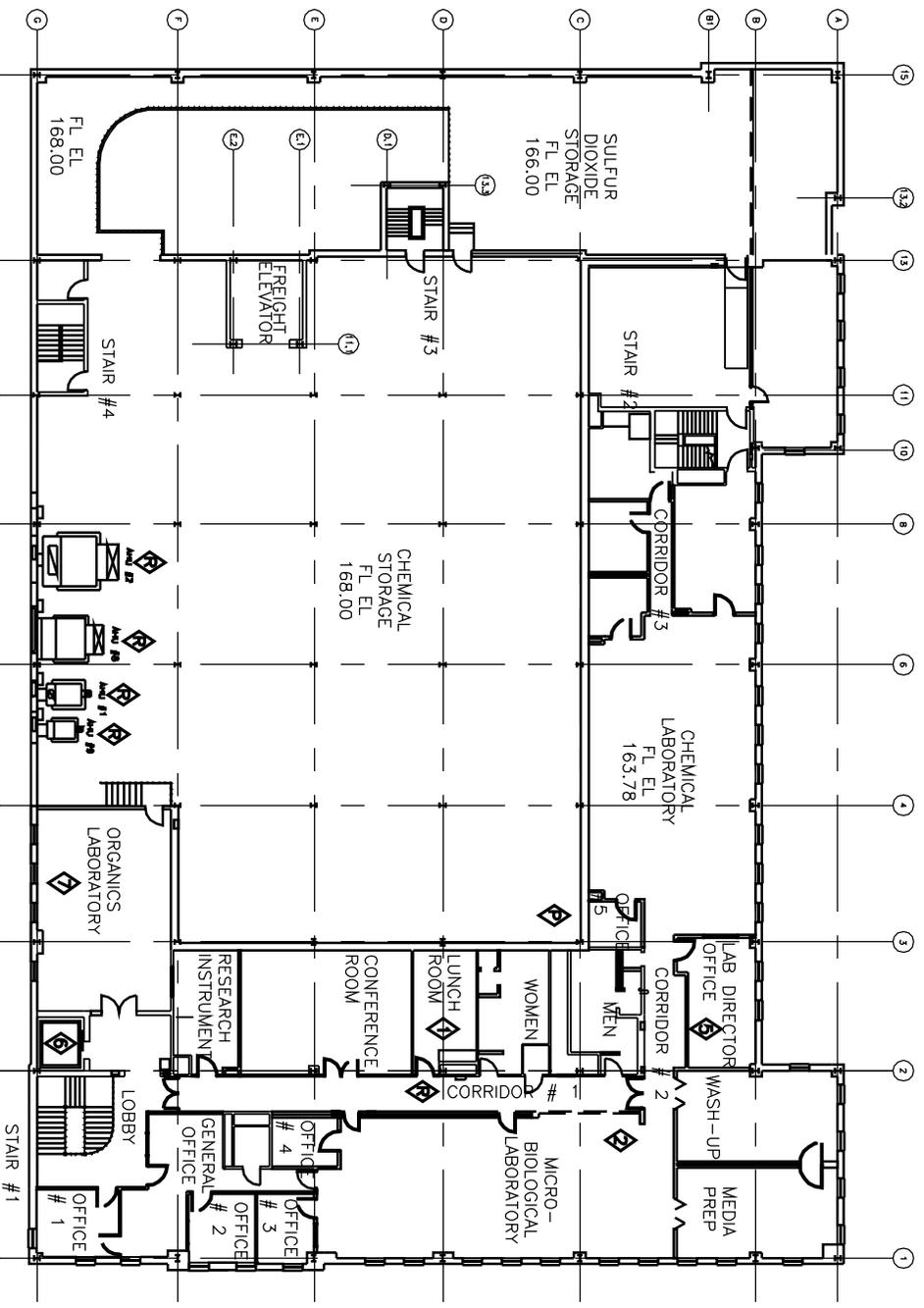


SKETCH SK 13280-2
 DATE: DEC 10, 2003

**ASBESTOS
 CONDITION LEGEND**

- WORK TASK DESCRIPTION # SEE TABLE 1 SPECIFICATION 01380
- ASBESTOS BELIEVED PRESENT, NOT TO BE DISTURBED
- ASBESTOS BELIEVED PRESENT, REMOVE ITEM WITHOUT DISTURBING ASBESTOS

GRAPHIC SCALE: 1/32" = 1'-0"
 0 5 20 40 100



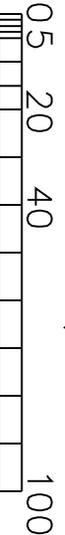
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 DATE: DEC 10, 2003

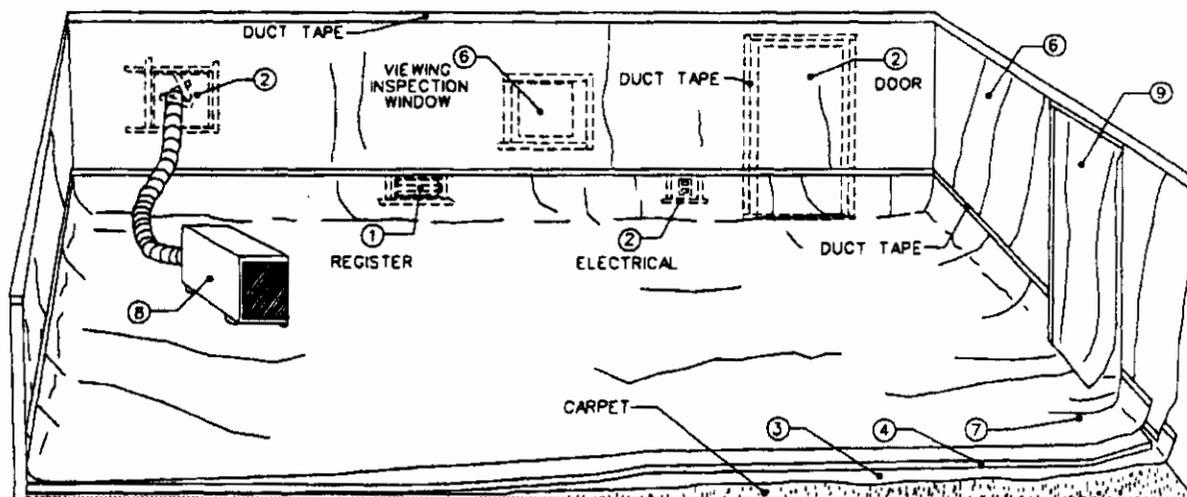


**ASBESTOS
 CONDITION LEGEND**

- ◆ WORK TASK DESCRIPTION # SEE TABLE 1 SPECIFICATION 01380
- ◆ ASBESTOS BELIEVED PRESENT, NOT TO BE DISTURBED
- ◆ ASBESTOS BELIEVED PRESENT, REMOVE ITEM WITHOUT DISTURBING ASBESTOS

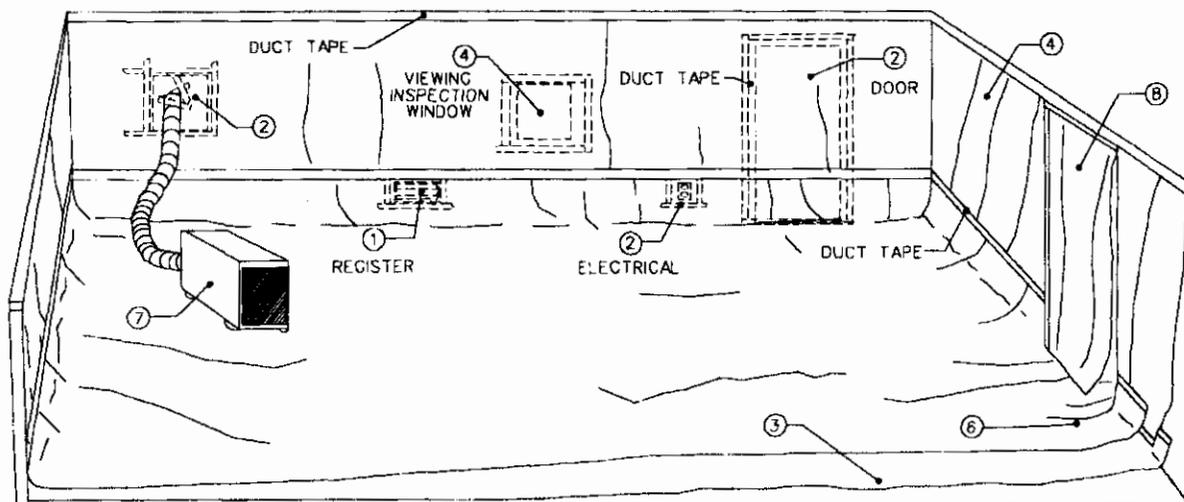
GRAPHIC SCALE: 1/32" = 1'-0"





Installation of critical barrier and full containment area (for carpeted floors)

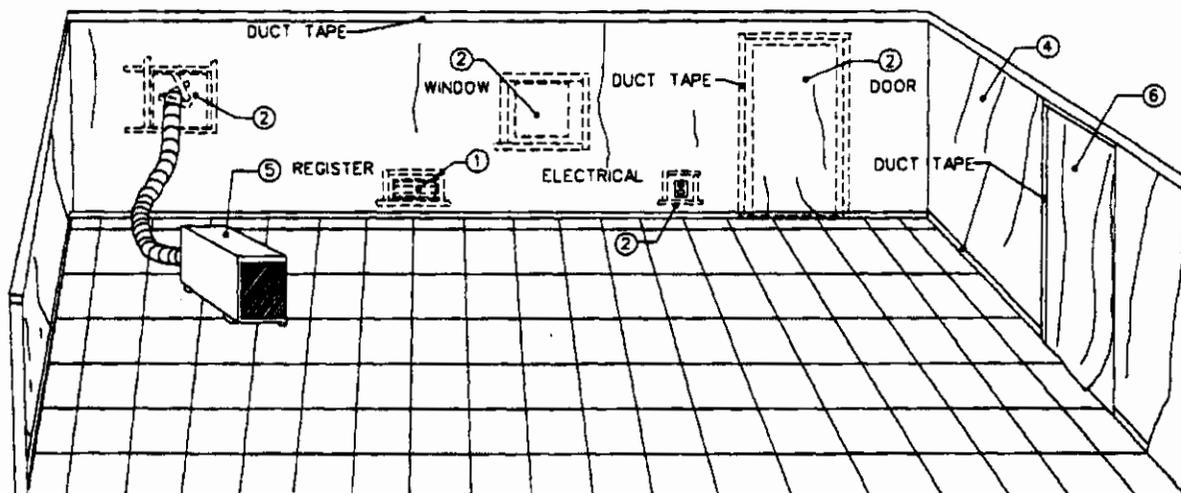
1. Establish work area so that unauthorized entry is prevented; see sheet 11. Eliminate airflow into containment area by isolating all supply and return air ducts from mechanical system. Lock doors and windows not required for access.
 2. Install 6-mil polyethylene critical barriers over all windows, doors, wall openings, electrical outlets, etc. Secure with duct tape on all sides. HEPA vacuum furniture, fixtures, and equipment and remove from or protect in containment area, as specified by the contract.
 3. Install first layer of 6-mil polyethylene on floor, extending the polyethylene 18 inches up wall. Secure with duct tape.
 4. Install 0.5-inch plywood in order to protect 6-mil polyethylene underlay.
 5. Prepare area as follows: turn off electrical power and remove light fixtures. Protect ceiling as required. HEPA vacuum plywood and walls.
 6. Protect wall surface with 6-mil polyethylene from floor to ceiling where walls are not to be abated. Install viewing inspection windows, where feasible.
 7. Place 6-mil polyethylene on top of plywood, extending polyethylene 18 inches up wall.
 8. Install HEPA filter unit and duct work; see sheet 8.
 9. Prepare door into decontamination or load-out unit. See sheet 22 for decontamination unit and sheet 20 for load-out unit. Doors that swing into the work area must be removed from hinges.
- Final clearance requirements.** After abatement has been completed, see sheet 16 for final clearance requirements.



Installation of critical barrier and full containment area (for hard floor surfaces)

1. Establish work area so that unauthorized entry is prevented; see sheet 11. Eliminate airflow into containment area by isolation of all supply and return air ducts from mechanical system. Lock doors and windows not required for access.
2. Install 6-mil polyethylene critical barriers over all windows, doors, wall openings, electrical outlets, etc. Secure with duct tape on all sides. HEPA vacuum furniture, fixtures, and equipment and remove from or protect in containment area, as specified by the contract.
3. Install first layer of 6-mil polyethylene on floor, extending the polyethylene 18 inches up wall. Secure with duct tape.
4. Protect wall surface with 6-mil polyethylene from floor to ceiling. Install view inspection windows, where feasible.
5. Prepare area as follows: turn off electrical power and remove light fixtures. Protect ceiling as required. HEPA vacuum floor and walls.
6. Install top layer of 6-mil polyethylene.
7. Install HEPA filter unit and duct work; see sheet 8.
8. Prepare door into decontamination unit or load-out unit; see sheet 22 for decontamination unit and sheet 20 for load-out unit. Doors that swing into the work area must be removed from hinges.

Final clearance requirements. After abatement has been completed, see sheet 17 for final clearance requirements.



Installation of critical barrier and full containment area (for vinyl tile floors)

1. Establish work area so that unauthorized entry is prevented; see sheet 11. Eliminate airflow into containment area by isolating all supply and return air ducts from mechanical system. Lock doors and windows not required for access.

2. Install 6-mil polyethylene critical barriers over all windows, doors, wall openings, electrical outlets, etc. Secure with duct tape on all sides. HEPA vacuum furniture, fixtures, and equipment and remove from or protect in containment area, as specified by the contract.

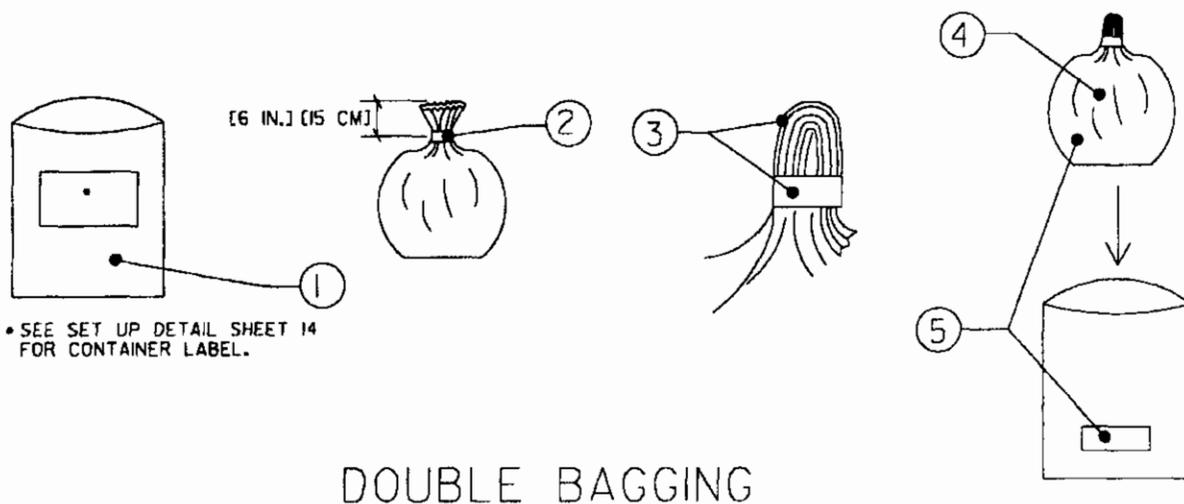
3. Prepare area as follows: turn off electrical power and remove light fixtures. Protect ceiling as required. HEPA vacuum floors and walls.

4. Protect wall surface with 6-mil polyethylene from floor to ceiling. Install viewing inspection windows, where feasible.

5. Install HEPA filter unit and duct work; see sheet 8.

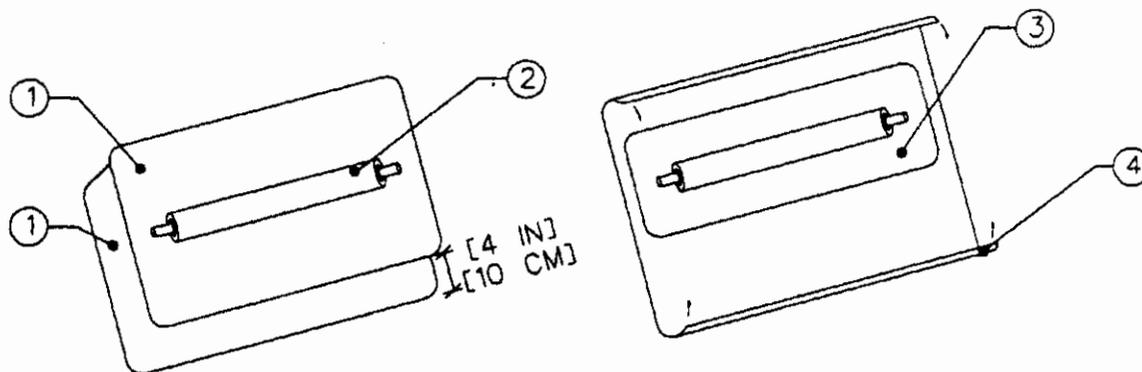
6. Prepare door into decontamination unit or load-out unit; see sheet 22 for decontamination unit and sheet 20 for load-out unit. Doors that swing into the work area must be removed from hinges.

Final clearance requirements. After abatement has been completed, see sheet 18 for final clearance requirements.



Containers—double bagging

1. Place the still-wet asbestos-containing and asbestos-contaminated material into a prelabelled 6-mil polyethylene bag. Do not overfill. Do not use bag for asbestos-containing or asbestos-contaminated material that could puncture the bag. (See sheet 9C for packaging items that could puncture bags.)
2. Evacuate with HEPA vacuum, and seal collapsed bag by twisting top [6 in] [15 cm] closed and wrapping with a minimum of two layers of duct tape.
3. Twist top and fold over. Apply second wrap of duct tape.
4. Adequately wet clean outside of disposal bag by wet wiping, and take bag to the equipment and staging area.
5. Place bag inside a second prelabelled 6-mil polyethylene bag.
6. Seal outer bag by repeating steps 2 and 3 above. Take bag to load-out unit; see sheet 20.



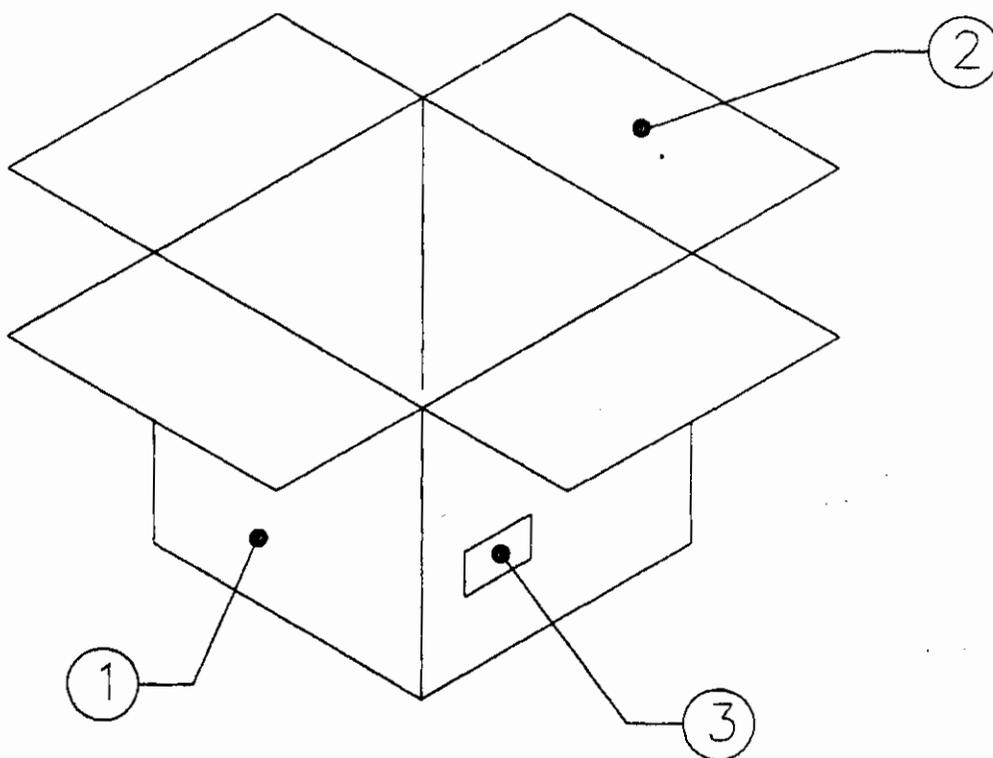
Containers—leak-tight wrapping

1. Place two layers of 6-mil polyethylene sheet on surface so that the bottom layer is offset (4 in) [10 cm] from the top layer.

2. Place the still-wet asbestos-containing or asbestos-contaminated material that is too large (boiler, vessel, pipe segment, etc.) to be placed in disposal bags on the top layer of polyethylene.

3. Wrap the top layer tightly around the contaminated material. Seal all edges of the top layer of sheeting with duct tape. Apply labels; see sheet 14.

4. Repeat procedure with bottom layer, including labeling. Take to load-out unit; see sheet 20.

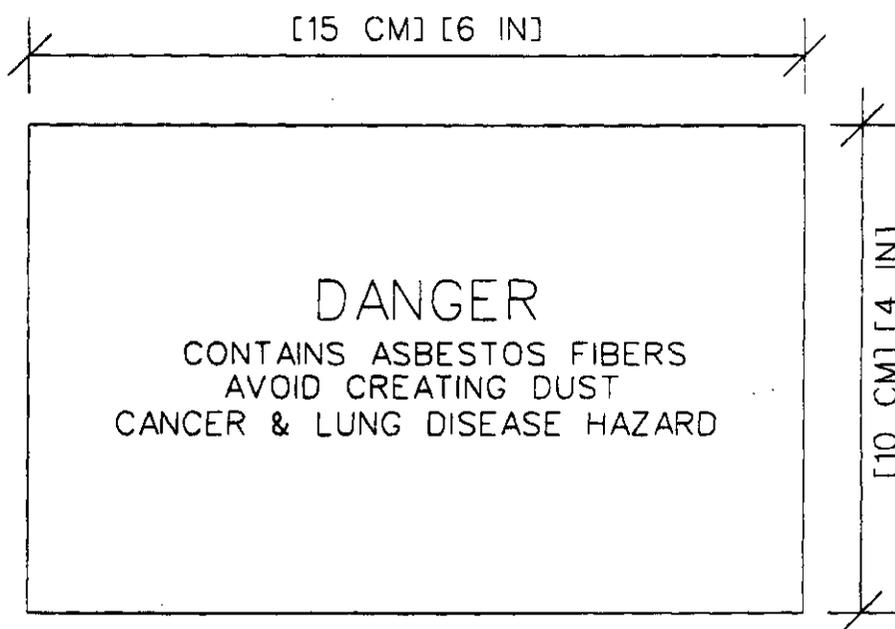


Containers—corrugated cardboard boxes

1. Place still-wet asbestos-containing or asbestos-contaminated material that could puncture disposal bags into heavy-duty corrugated cardboard boxes coated with plastic or wax that will retard deterioration from moisture.

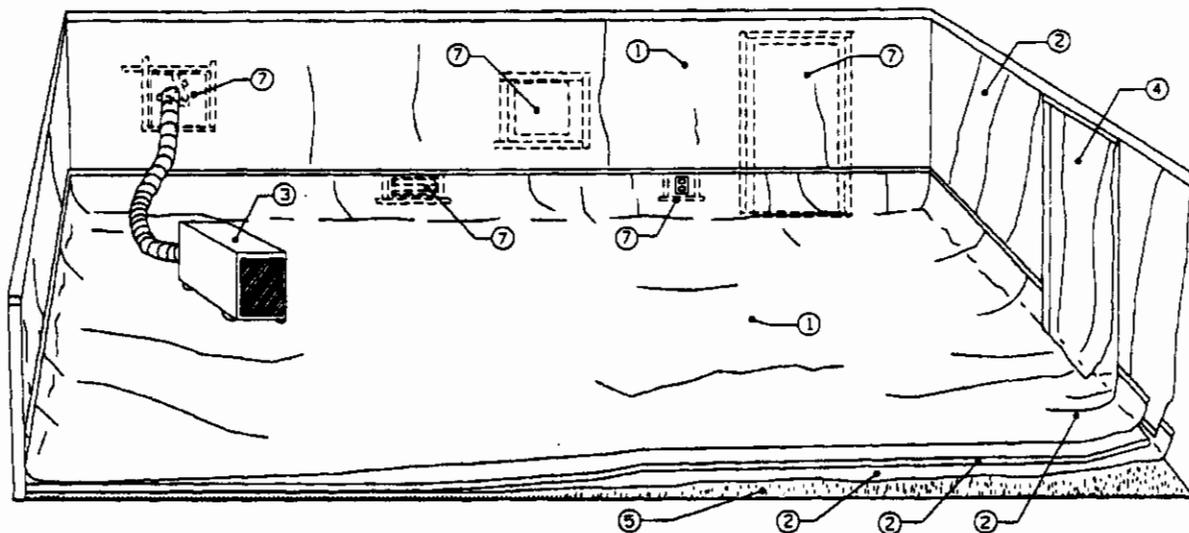
2. Close flaps, and seal with duct tape.

3. Apply labels; see sheet 14. Place box into disposal bags; see sheet 9A. Take to load-out unit; see sheet 20.



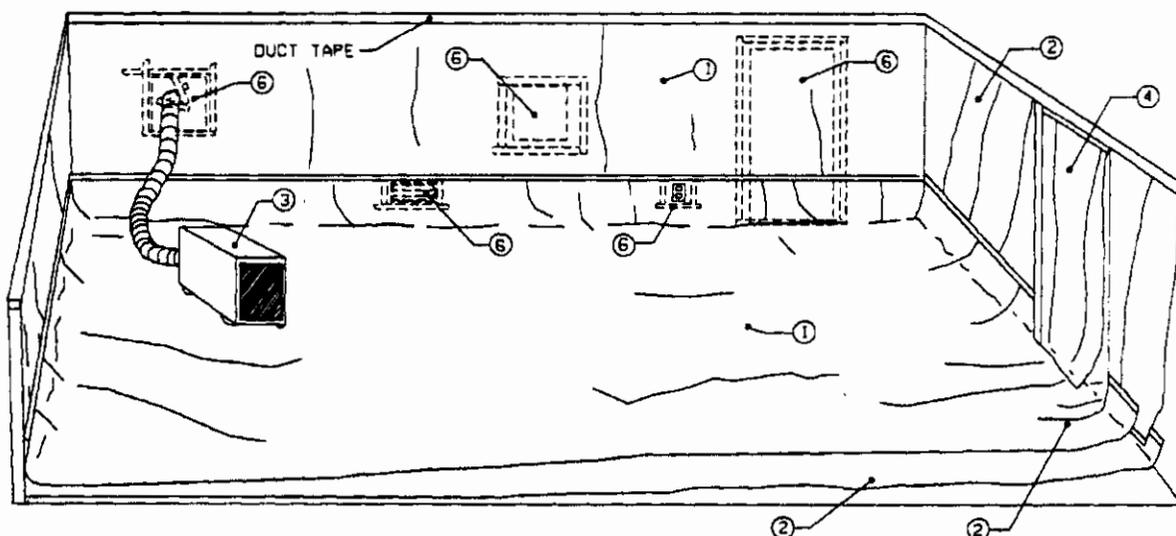
Disposal container label

Attach warning labels to each disposal container removed from abatement area.



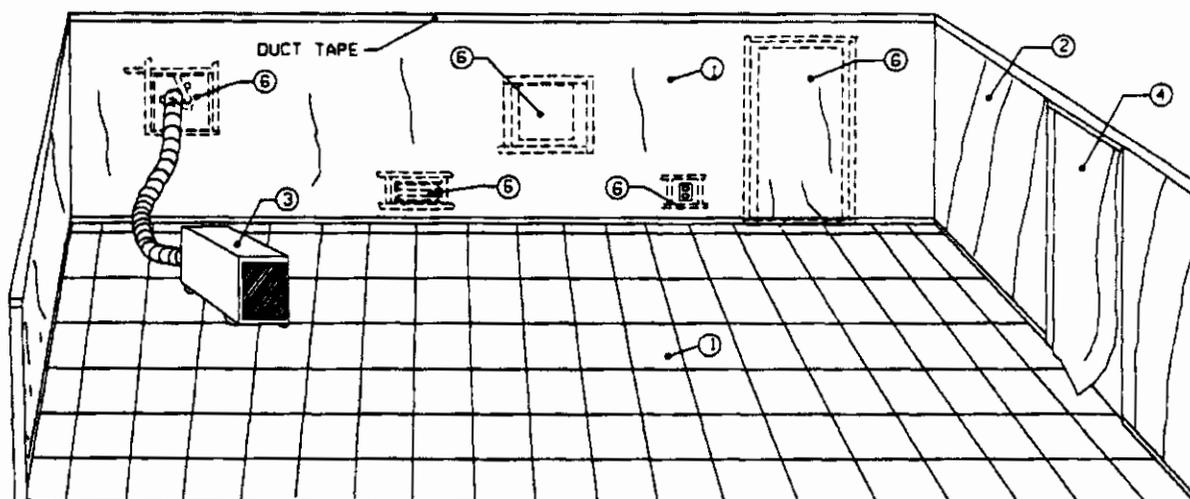
Preparation of full containment area for final clearance (for carpeted floors)

1. Accumulate all loose material for disposal. Place material in approved container; see sheet 9. Apply labels; see sheet 14. Adequately wet clean and HEPA vacuum all wall, floor, and equipment surfaces.
2. Contractor and contracting officer will certify visual inspection of work area on sheet 19, *Certification of Final Cleaning and Visual Inspection*.
3. Apply lockdown encapsulant.
4. Remove polyethylene from walls, floor, and plywood. HEPA vacuum plywood before removal. Critical barriers sealing all windows, doors, wall openings, electrical outlets, etc., are to remain. Remove any temporary equipment enclosures used; see sheet 24. Treat polyethylene as asbestos-contaminated material. Place in approved container; see sheet 9 for leak-tight wrapping. Apply labels; see sheet 14. NOTE: With approval from the Contracting Officer, uncontaminated plywood can be treated as ordinary construction waste; otherwise, treat as asbestos-contaminated material.
5. HEPA filter unit remains in place and operating.
6. Door into contamination unit or load-out room remains.
7. HEPA vacuum carpet.
8. Prepare area for final clearance.
9. Contractor and Contracting Officer will recertify visual inspection of work area on sheet 19, *Certification of Final Cleaning and Visual Inspection*.
10. Contract designee(s) will conduct final air-clearance monitoring as required by the contract.
11. Upon instruction from Contracting Officer, shut down HEPA filter ventilation system, detach duct work, move system to equipment room of decontamination unit, clear and dispose of waste; see sheet 8. Remove critical barrier and place in approved container; see sheet 9. Apply labels; see sheet 14. Dispose of waste as asbestos-contaminated material.



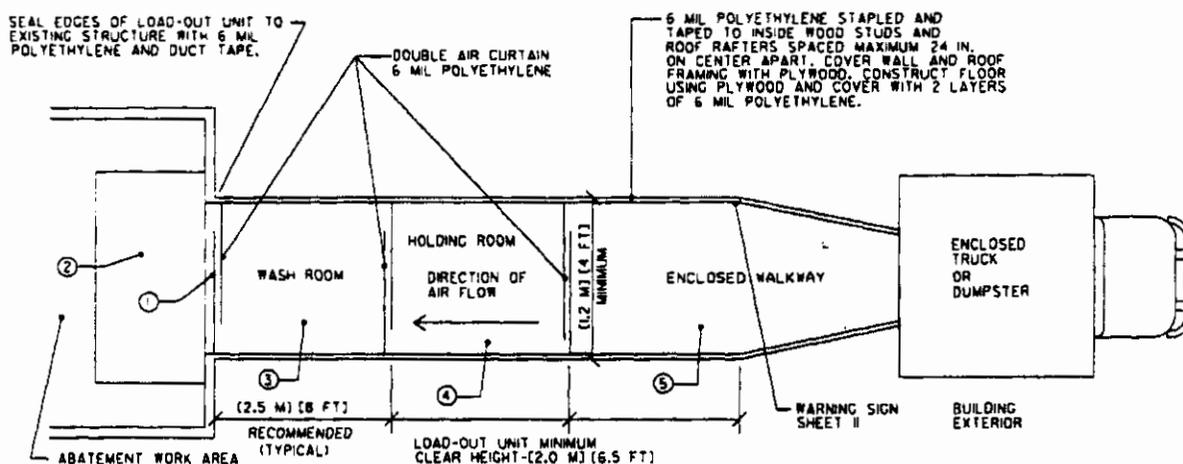
Preparation of full containment area for final clearance (for hard-surfaced floors)

1. Accumulate all loose material for disposal. Place in approved container; see sheet 9. Apply labels; see sheet 14. Adequately wet clean and HEPA vacuum all wall, floor, and equipment surfaces.
2. Contractor and contracting officer will certify visual inspection of work area on sheet 19, *Certification of Final Clearing and Visual Inspection*.
3. Apply lockdown encapsulant.
4. Remove polyethylene on walls and floor. Critical barriers sealing all windows, doors, wall openings, electrical outlets, etc., are to remain. Remove any temporary equipment enclosures used; see sheet 24. Treat polyethylene as asbestos-contaminated material. Place in approved container; see sheet 9 for leak-tight wrapping. Apply labels; see sheet 14.
5. HEPA filter unit remains in place and operating.
6. Door into decontamination unit or load-out room remains.
7. Prepare area for final clearance.
8. Contractor and Contracting Officer will recertify visual inspection of work area on sheet 19, *Certification of Final Clearing and Visual Inspection*.
9. Contract designee(s) will conduct final air-clearance monitoring as required by the contract.
10. Upon instruction from Contracting Officer, shut down HEPA filter ventilation system, detach duct work, move system to equipment room of decontamination unit, clear and dispose of waste; see sheet 8. Remove critical barrier and place in approved container; see sheet 9. Apply labels; see sheet 14. Dispose of waste as asbestos-contaminated material.



Preparation of containment area for final clearance (for vinyl tile floors)

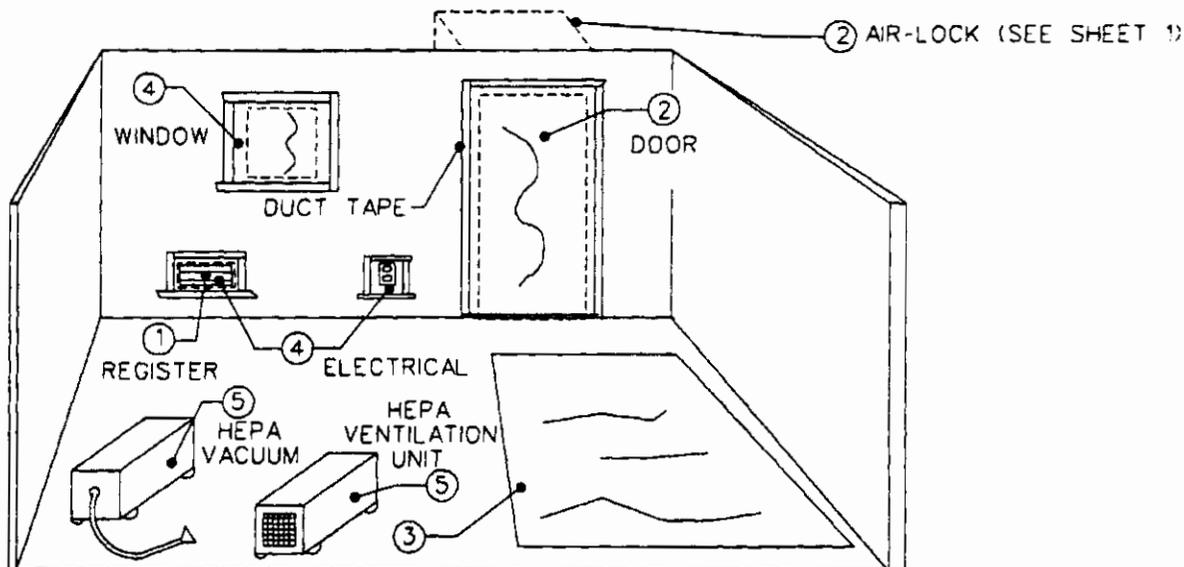
1. Accumulate all loose material for disposal; see sheet 9. Apply labels; see sheet 14. Adequately wet clean all wall, floor, and equipment surfaces.
2. Contractor and contracting officer will certify visual inspection of work area on sheet 19, *Certification of Final Clearing and Visual Inspection*.
3. Apply lockdown encapsulant.
4. Remove polyethylene from walls. Critical barriers sealing all windows, doors, wall openings, electrical outlets, etc., are to remain. Remove any temporary equipment enclosures used; see sheet 24. Treat polyethylene as asbestos-contaminated material. Place in approved container; see sheet 9 for leak-tight wrapping. Apply labels; see sheet 14.
5. HEPA filter unit remains in place and operating.
6. Door into decontamination unit or load-out room remains.
7. Prepare area for final clearance.
8. Contractor and Contracting Officer will recertify visual inspection of work area on sheet 19, *Certification of Final Clearing and Visual Inspection*.
9. Contract designee(s) will conduct final air-clearance monitoring as required by the contract.
10. Upon instruction from Contracting Officer, shut down HEPA filter ventilation system, detach duct work, move system to equipment room of decontamination unit, clear and dispose of waste; see sheet 8. Remove critical barrier and place in approved container; see sheet 9. Apply labels; see sheet 14. Dispose of waste as asbestos-contaminated material.



Load-out unit floor plan

1. Abatement worker is to enter and exit abatement work area only through decontamination unit.
2. Place additional 6-mil polyethylene sheeting on top of abatement area floor. Double bag asbestos-contaminated material in this area before removing.
3. Wet wipe bags, equipment, and containers, and take to holding room.
4. Stage clean bags, equipment, and containers in holding room until disposal worker removes them.
5. Disposal workers, wearing full protective clothing and appropriate respirator protection, carry decontaminated bags and containers through enclosed walkway and into enclosed truck or Dumpster.

Final clearance requirements. Before breaking down load-out unit, adequately wet clean and HEPA vacuum all surfaces and prepare area for final clearance. Contractor and Contracting Officer will certify visual inspection of work area on sheet 19, *Certification of Final Cleaning and Visual Inspection*. Contractor will apply lockdown encapsulant. Contract designee(s) will conduct final air-clearance monitoring as required by the contract. Breakdown load-out area upon instructions from Contracting Officer. Treat as asbestos-contaminated material. Place in approved container; see sheet 9. Apply labels; see sheet 14. Dispose of as required by the contract.



Modified containment area

1. Establish work area and prevent unauthorized entry; see sheet 11. Eliminate airflow into containment area by isolating all supply and return air ducts from mechanical system.

2. Install air lock at entrance to abatement area; see sheet 1. Air lock may be constructed either outside or inside of room. NOTE: Air lock is not required for glove bag operations.

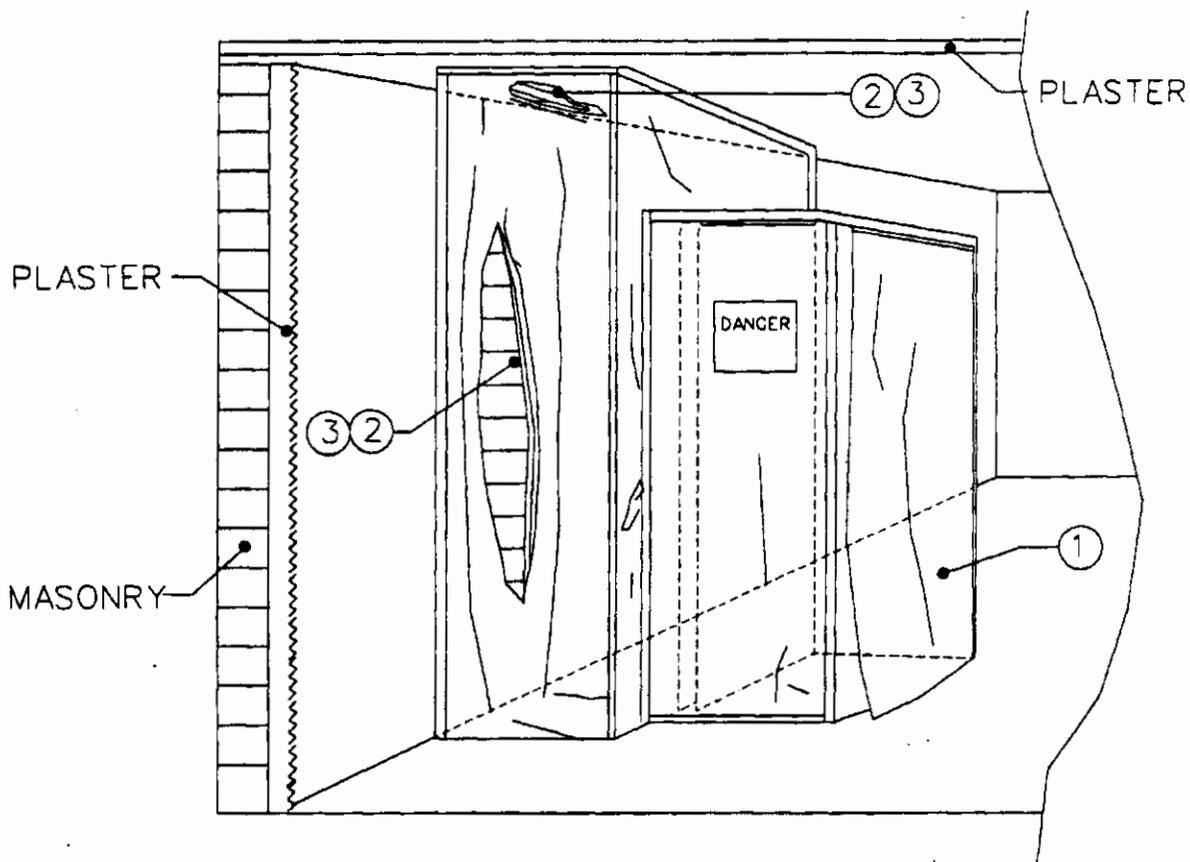
3. Install 6-mil polyethylene sheet on floor under work area.

4. Install 6-mil polyethylene (critical barrier) over all windows, doors, wall openings, electrical outlets, etc. Provide airtight seal, using duct tape.

5. Provide a HEPA-filter vacuum cleaner and a HEPA-filter ventilation system in the work area; see sheet 8. The ventilation system does not have to be ducted to the outside of the structure. The ventilation system shall operate 24 hours a day from start of abatement through final air-clearance monitoring. The ventilation system shall be sized to recirculate the air a minimum of four air changes per hour. For glove bag operations, provide a single HEPA ventilation unit with a measured capture velocity at least 1,500 cfm.

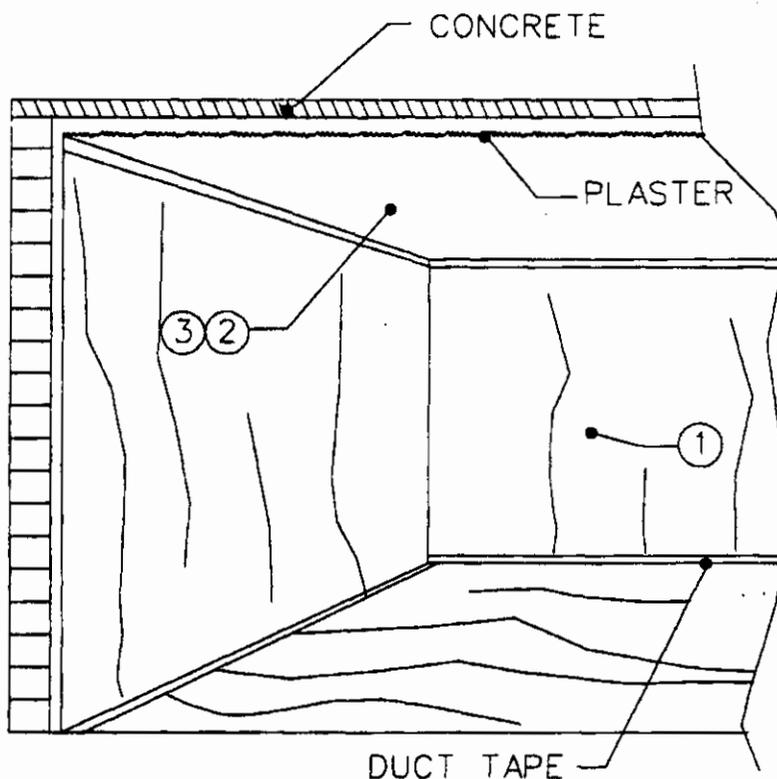
6. Accumulate all loose material and polyethylene from floor. Place in approved container; see sheet 9. Apply labels; see sheet 14. HEPA vacuum and adequately wet clean all wall, floor, and equipment surfaces.

Final clearance requirements. Abatement worker must wear two disposable suits. Remove outer suit in the work area. Place suit in 6-mil disposal bag; see sheet 9. Enter air lock. In air lock, wet wipe respirator and wash hands with clean water from portable sprayer. Remove respirator and place in clean plastic bag. Proceed to remote shower where inner suit may be removed. Prepare work area and air lock for final clearance. Contractor and Contracting Officer will certify visual inspection of work area on sheet 19, *Certification of Final Cleaning and Visual Inspection*. Contract designee(s) will conduct final air-clearance monitoring as required by the contract. Upon instructions from the Contracting Officer, remove critical barriers and HEPA ventilation units; see sheet 8. Treat polyethylene as asbestos-contaminated material. Place in approved container; see sheet 9. Apply labels; see sheet 14. Dispose of as required by the contract.



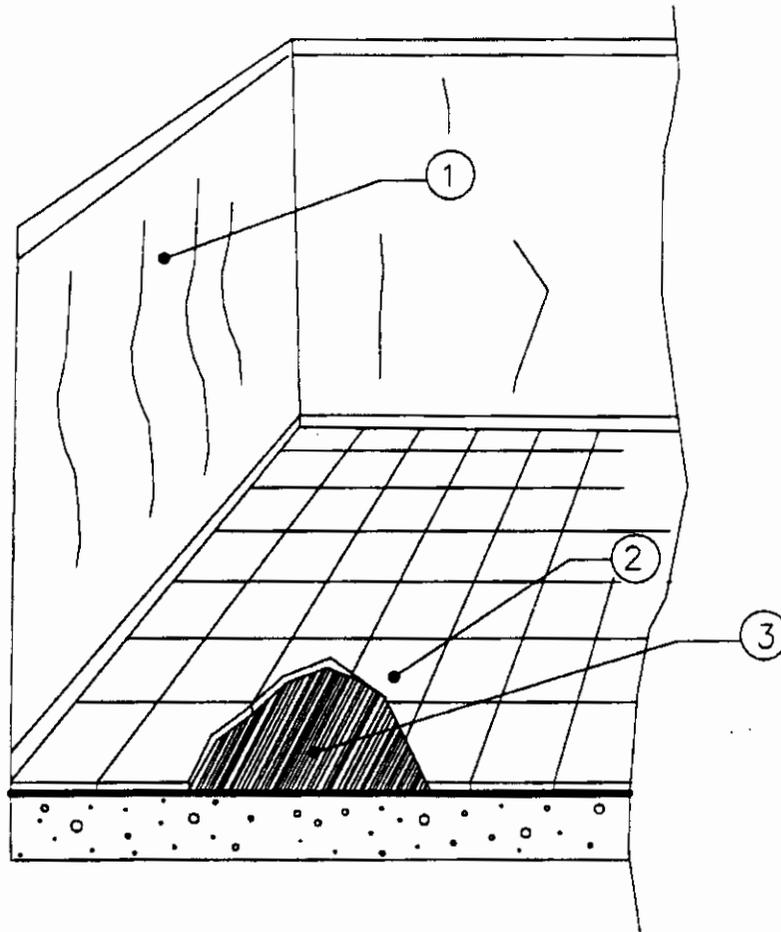
Repair of troweled ceiling or wall plaster on masonry

1. Prepare mini-containment area as specified on sheet 7.
2. Adequately wet mist damaged plaster with amended water, initially and during removal procedure.
3. Remove damaged material. Place in approved container; see sheet 9. Apply labels; see sheet 14.
4. Repair damaged area by troweling on asbestos-free plaster, and then damp sponge. Match adjacent surfaces.
5. Apply tinted penetrating encapsulant by airless spray to repaired surface in accordance with manufacturer's recommendations.
6. Inspect and reapply encapsulant as necessary.
7. Prepare area for final air clearance.
8. Carry out final clearance requirements specified on sheet 7.



Removal of acoustical ceiling plaster (nonasbestos substrate)

1. Prepare containment area as specified on applicable sheet 2, 3, or 4.
2. Adequately wet mist surface of plaster with amended water, initially and during the removal procedure.
3. Remove acoustical plaster from masonry ceiling by scraping or other techniques. Brush, HEPA vacuum, and wet wipe surface in order to remove remaining dust and residue. Place in approved container; see sheet 9. Apply labels; see sheet 14.
4. Inspect and reclean area as necessary. Apply tinted penetrating encapsulant.
5. Inspect and reapply encapsulant as necessary.
6. Prepare area for final air clearance.
7. Carry out final clearance requirements as specified on applicable sheet 16, 17, or 18.



**Removal of vinyl asbestos tile adhered to concrete floor system by
asbestos-containing adhesive**

1. Prepare containment area as specified on sheet 21. approved container; see sheet 9. Apply labels; see sheet 14.
- NOTE: Where full containment area is required, follow instructions on sheet 4, except omit polyethylene on floor.
2. Lightly flood asbestos tile with amended water, and let soak for 48 hours. Remove asbestos tile and adhesive while they are wet in order to prevent asbestos fiber release. Place tile and adhesive into an
3. Clean, HEPA vacuum, and wet wipe all surfaces.
4. Inspect and reclean area as necessary.
5. Prepare area for final air clearance.
6. Carry out final clearance requirements as specified on applicable sheet 18 or 21.

LEGEND

————— W_x ————— W_x —————

WATERLINE EXISTING

- - - - -

WATERLINE NEW

————— SS_x —————

SANITARY SEWER EXISTING

————— SS —————

SANITARY SEWER NEW

————— C^u —————

COMMUNICATION NEW

————— E^u —————

ELECTRICAL NEW

————— X —————

FENCE

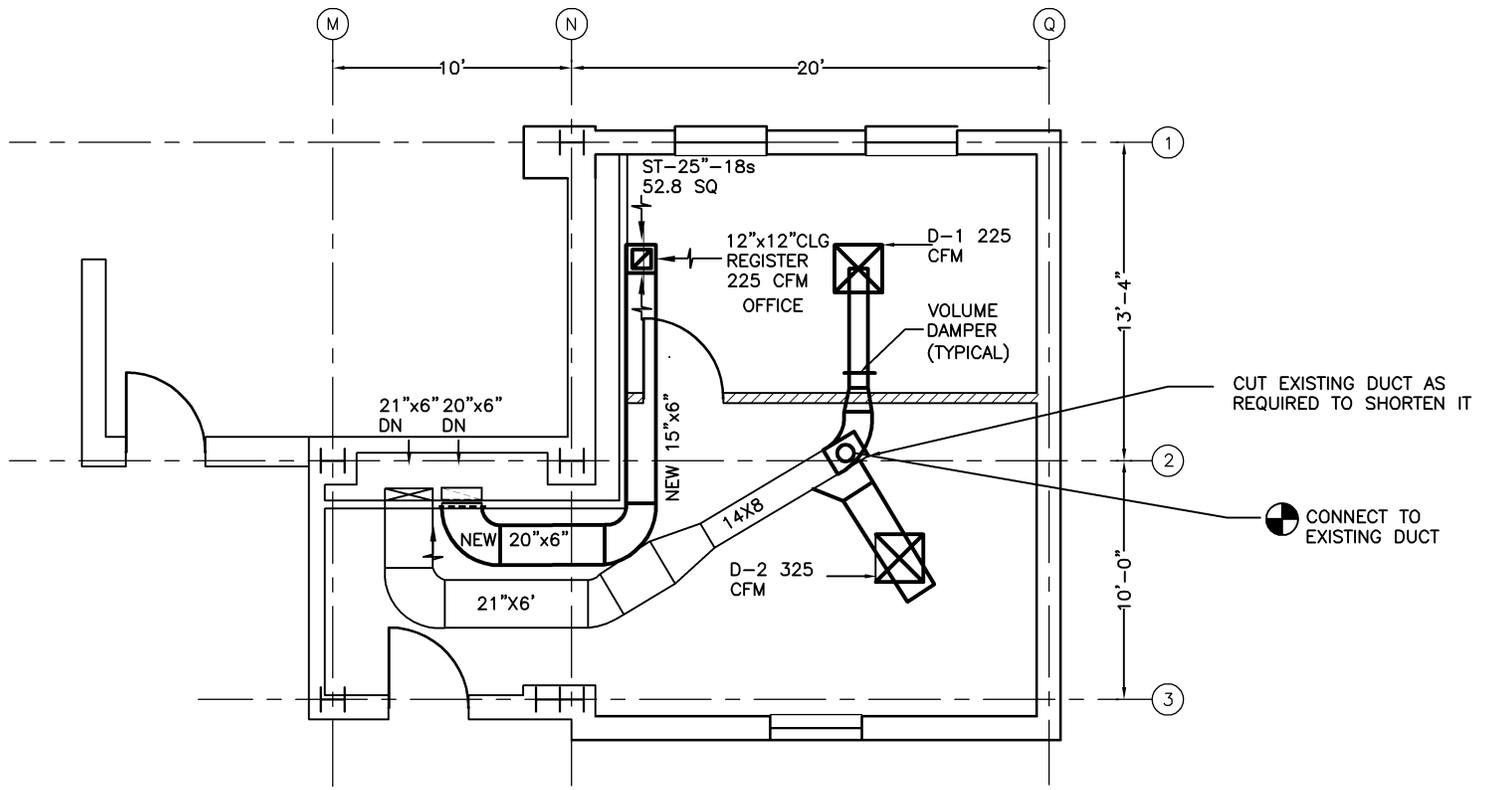


TREES EXISTING

LEGEND

	W _x	WATERLINE EXISTING
		WATERLINE NEW
	SS _x	SANITARY SEWER EXISTING
	SS	SANITARY SEWER NEW
		STORM DRAIN EXISTING
	C ^u	COMMUNICATION NEW
	C _x ^u	COMMUNICATION UNDERGROUND EXISTING
	E ^u	ELECTRICAL NEW
	E _x ^u	ELECTRICAL EXISTING
		TREES EXISTING

SKETCH SK-2
DATE: 17 DEC, 2003

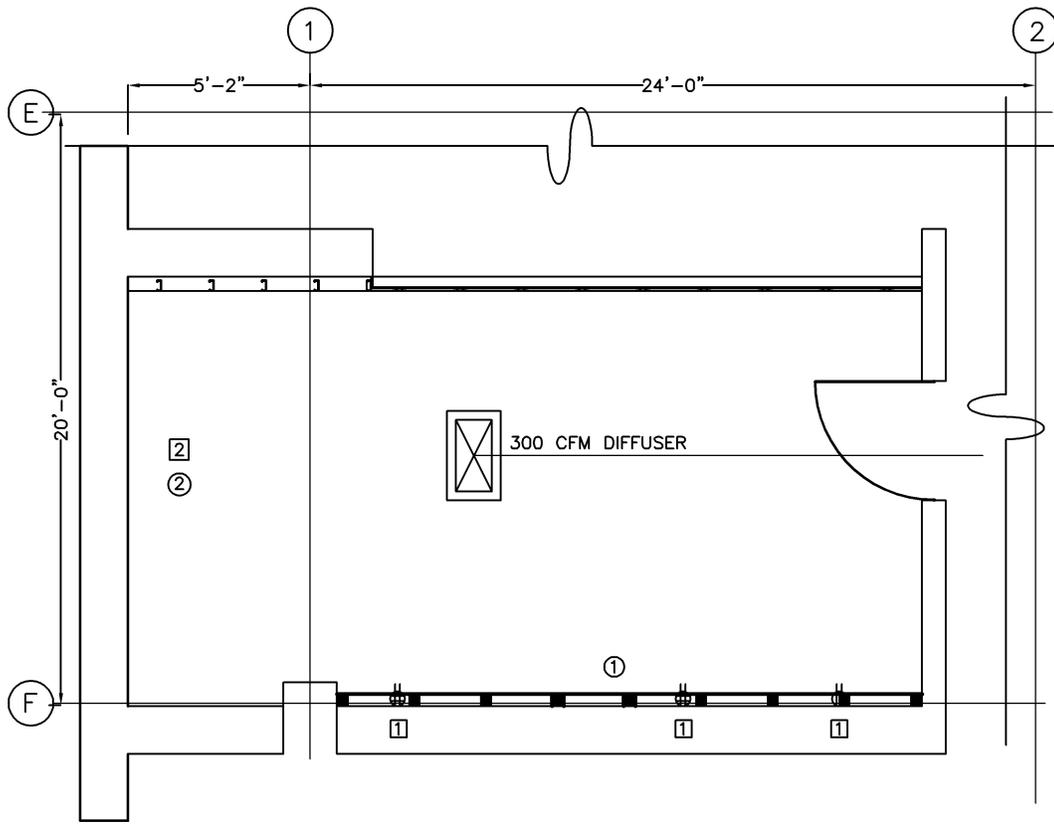


PUMPING STATION OFFICE HVAC NEW WORK
(FL EL-148.75)



SCALE: 1/4" = 1'-0"

SKETCH SK-3
 DATE: 17 DEC, 2003



⚠ DEMOLITION & NEW WORK ELECTRICAL 

SCALE: 3/8" = 1'-0"

DEMOLITION NOTES

- 1** REMOVE EXISTING RECEPTACLES
- 2** DISCONNECT EXISTING FCU

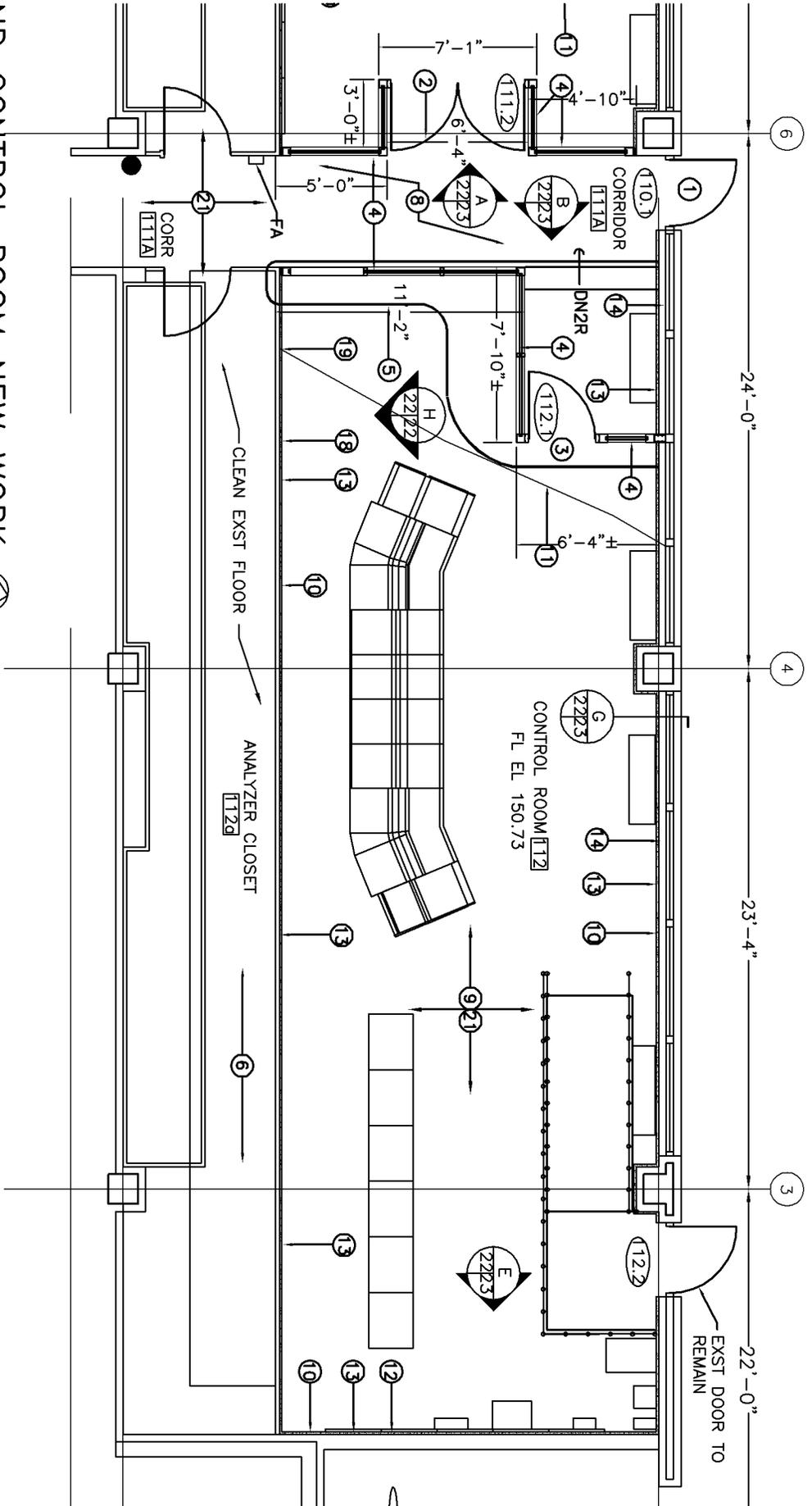
NEW WORK NOTES

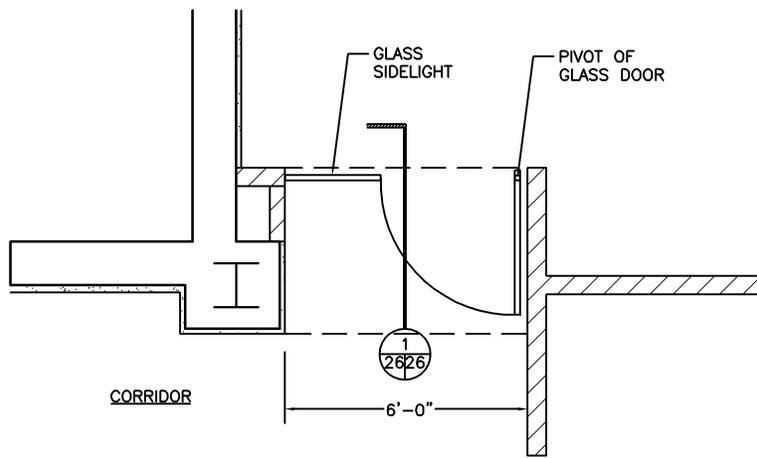
- 1** PROVIDE NEW NON METALLIC SURFACE RACEWAY. SEE DETAIL PLATE 134. CONNECT NEW RACEWAY TO EXISTING CIRCUITS P-26 AND P-27 IN PANEL P1B, FIRST FLOOR MCC ROOM.
- 2** CONNECT RELOCATED FCU TO EXISTING CIRCUIT. PROVIDE WIRING AND CONDUIT AS NECESSARY.

SKETCH SK-4
DATE: 17 DEC, 2003

SKETCH SK-5
 DATE: 17 DEC, 2003

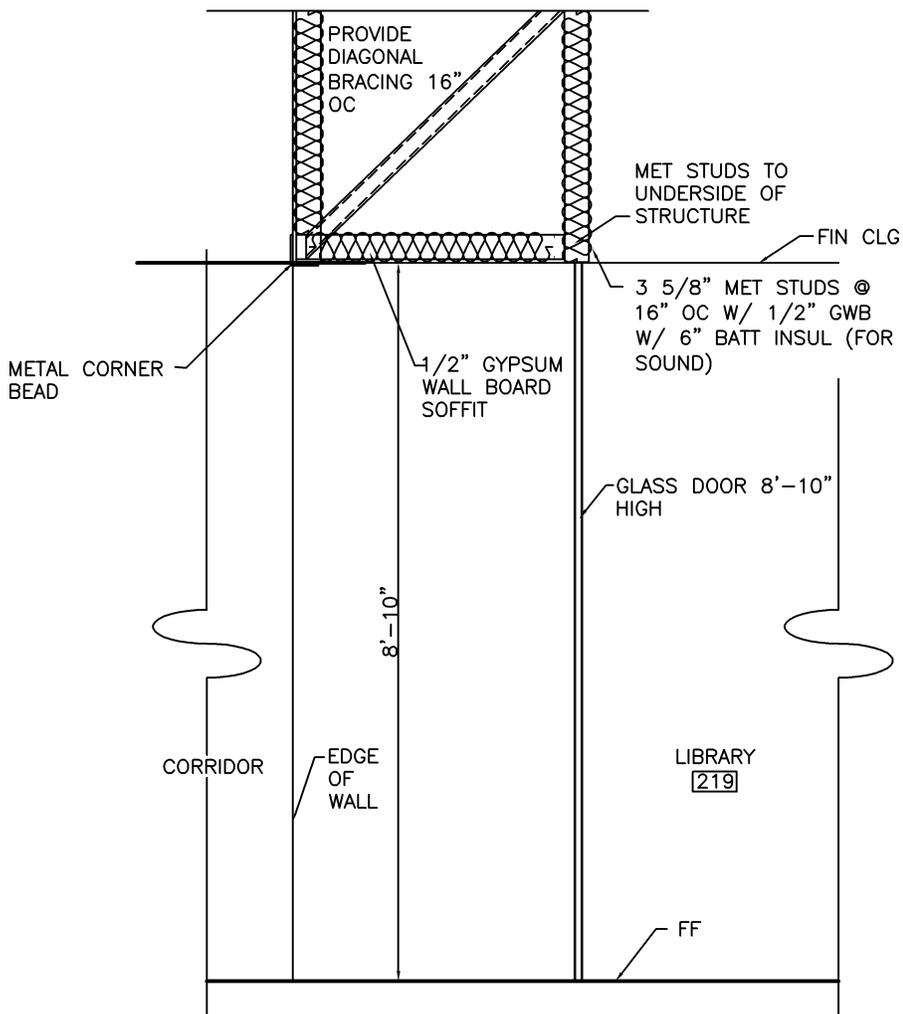
ND CONTROL ROOM NEW WORK





B
24/26
LIBRARY ENTRANCE-PLAN

SCALE: 1/2" = 1'-0"



1
26/26
LIBRARY ENTRANCE - SECTION

SCALE: 3/4" = 1'-0"

SKETCH SK-6
 DATE: 17 DEC, 2003

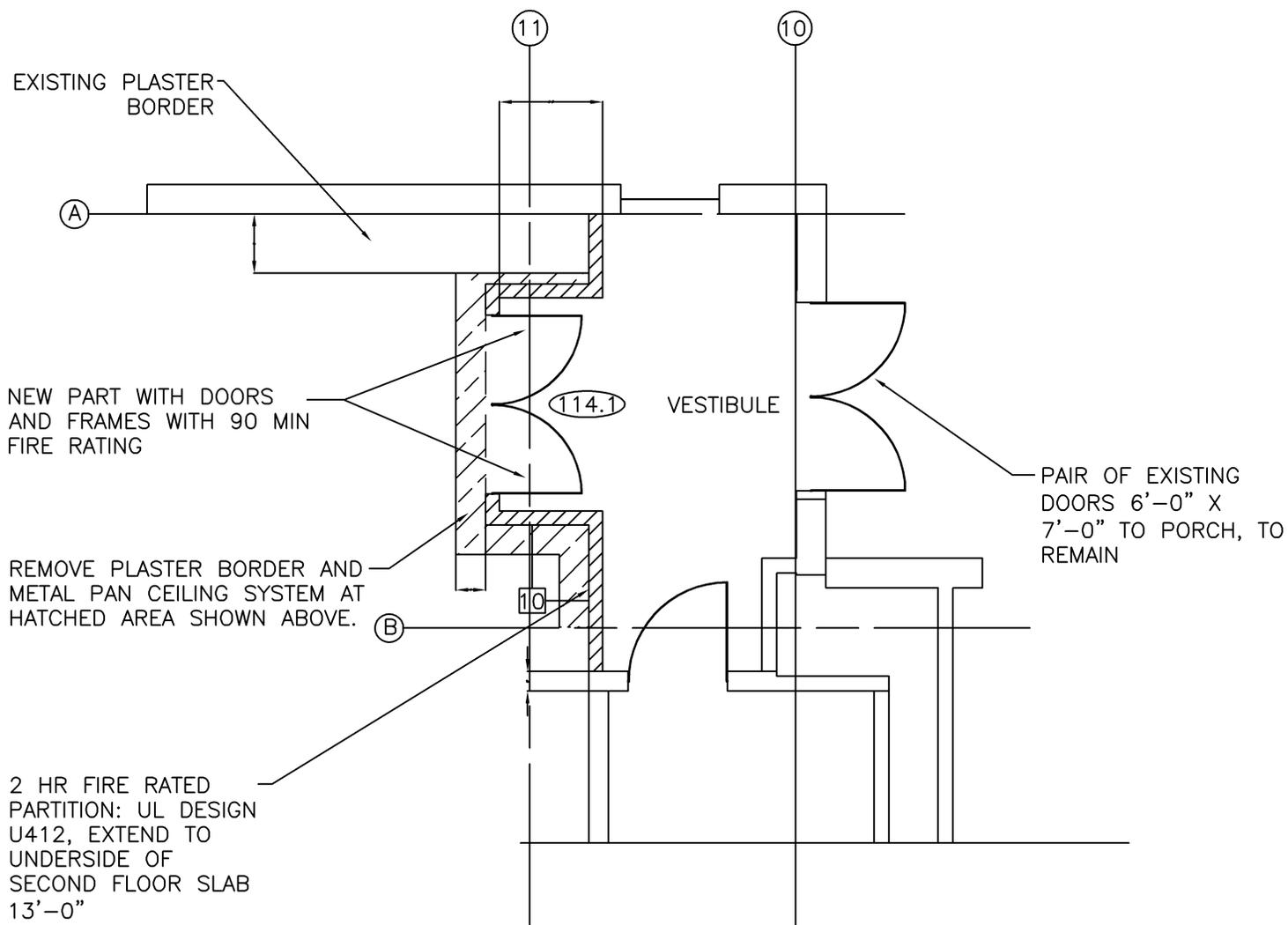
△ FINISH SCHEDULE NOTES:

1. PAINT NORTH, WEST, & SOUTH WALLS
2. ACOUSTIC WALL PANELS, EAST WALL ONLY
3. VINYL TILE FLOOR PATTERN, SEE DETAIL THIS PLATE.
4. CERAMIC TILE FLOOR PATTERN, SEE DETAIL THIS PLATE.
5. CERAMIC TILE WALL BORDER PATTERN, SEE DETAIL THIS PLATE.
6. NOT USED.
7. CERAMIC BUILT-UP COVE BASE, 2"X2" UNGLAZED MOSAIC TILES.
8. ALL ROOMS RECEIVING POURED EPOXY FLOOR SHALL HAVE 4" INTEGRAL SELF-COVE BASE.
9. CONFERENCE ROOM 200, FOUR (4) WINDOWS TO RECEIVE BOTH WT-1 AND WT-2 SHADES AND DRAPERY.
10. SEE DETAILS ON THIS PLATE FOR INTERIOR AND EXTERIOR ELEVATOR TREATMENTS.
11. NOT USED.
12. FLOOR AND BASE FINISH SECOND FLOOR LANDING ONLY.
13. COUNTERTOPS ARE SOLID POLYMERE.
14. ACOUSTIC CEILING ON FIRST FLOOR ONLY.

GENERAL FINISH NOTES:

1. FINISH NOTES ARE INDICATED AS [#] IN THE FINISH SCHEDULE.
2. FOR FINISH DESIGNATIONS REFER TO SECTION 09915 "COLOR SCHEDULE"
3. CEILING HEIGHTS ON THE SECOND FLOOR OF THE CHEMICAL BUILDING ARE IN GENERAL 8'-10". EXCEPTIONS ARE THE MENS AND WOMENS TOILETS (ROOMS 215 & 216) WHICH ARE 8'-0". CEILING HEIGHTS ON THE FIRST FLOOR OF THE CHEMICAL BUILDING ARE IN GENERAL 8'-8" WITH THE EXCEPTION OF THE CONTROL ROOM (ROOM 112) WHERE THE CEILING HEIGHT IS 7'-11 1/4".

SKETCH SK-7
DATE: 17 DEC, 2003

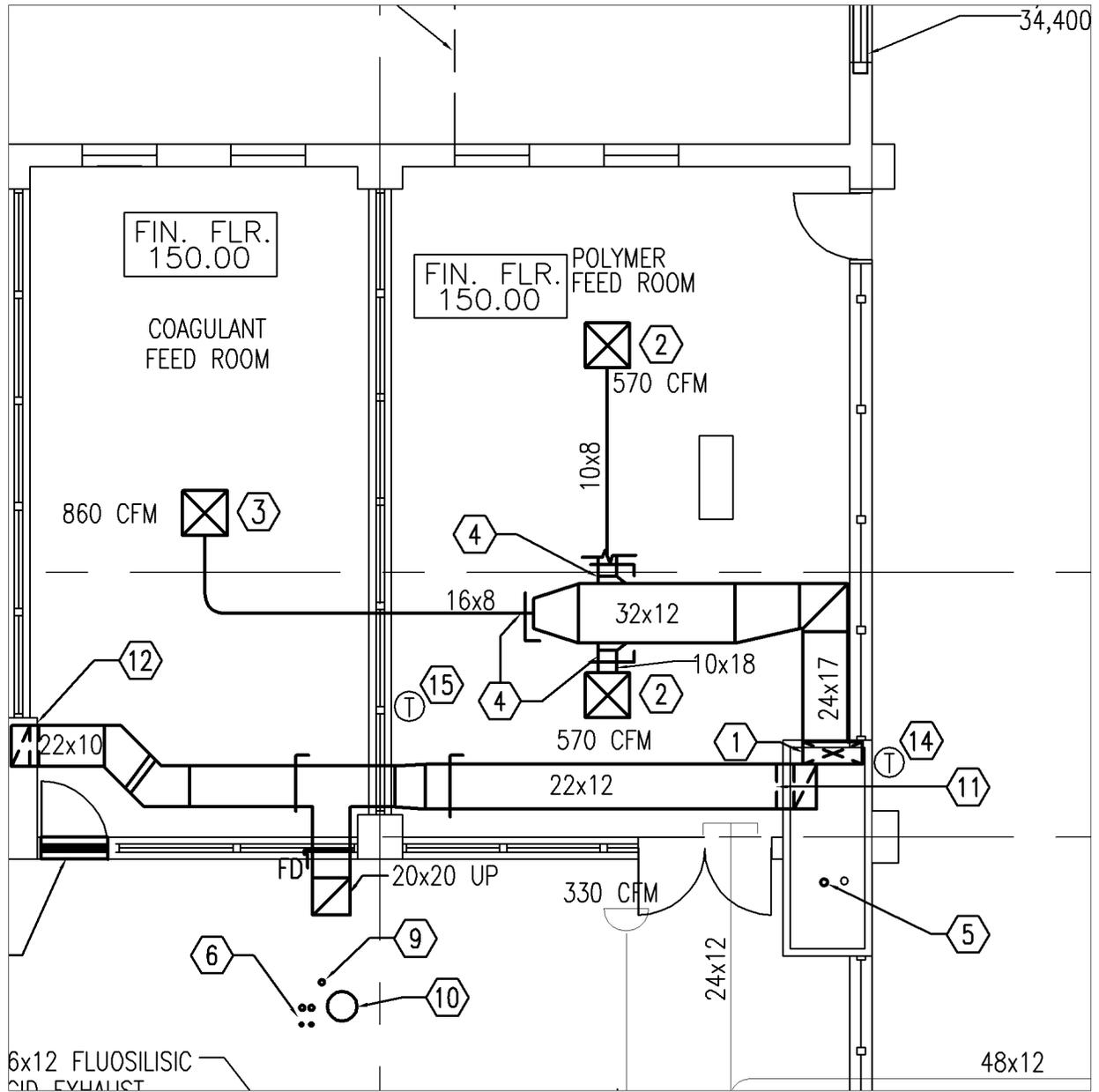


1 FIRST FLOOR PLAN: VESTIBULE STAIR NO 2

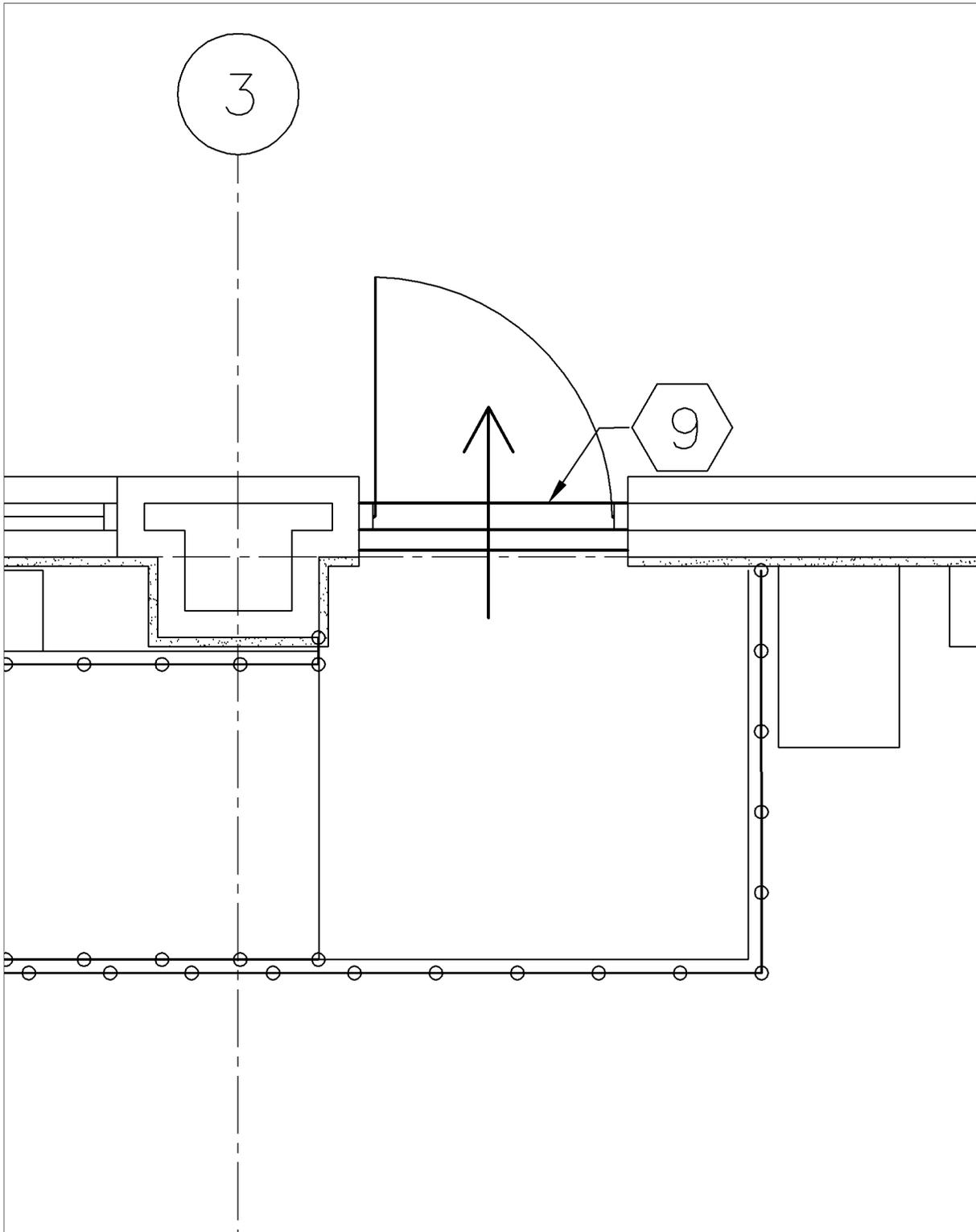
SCALE: 1/4" = 1'-0"



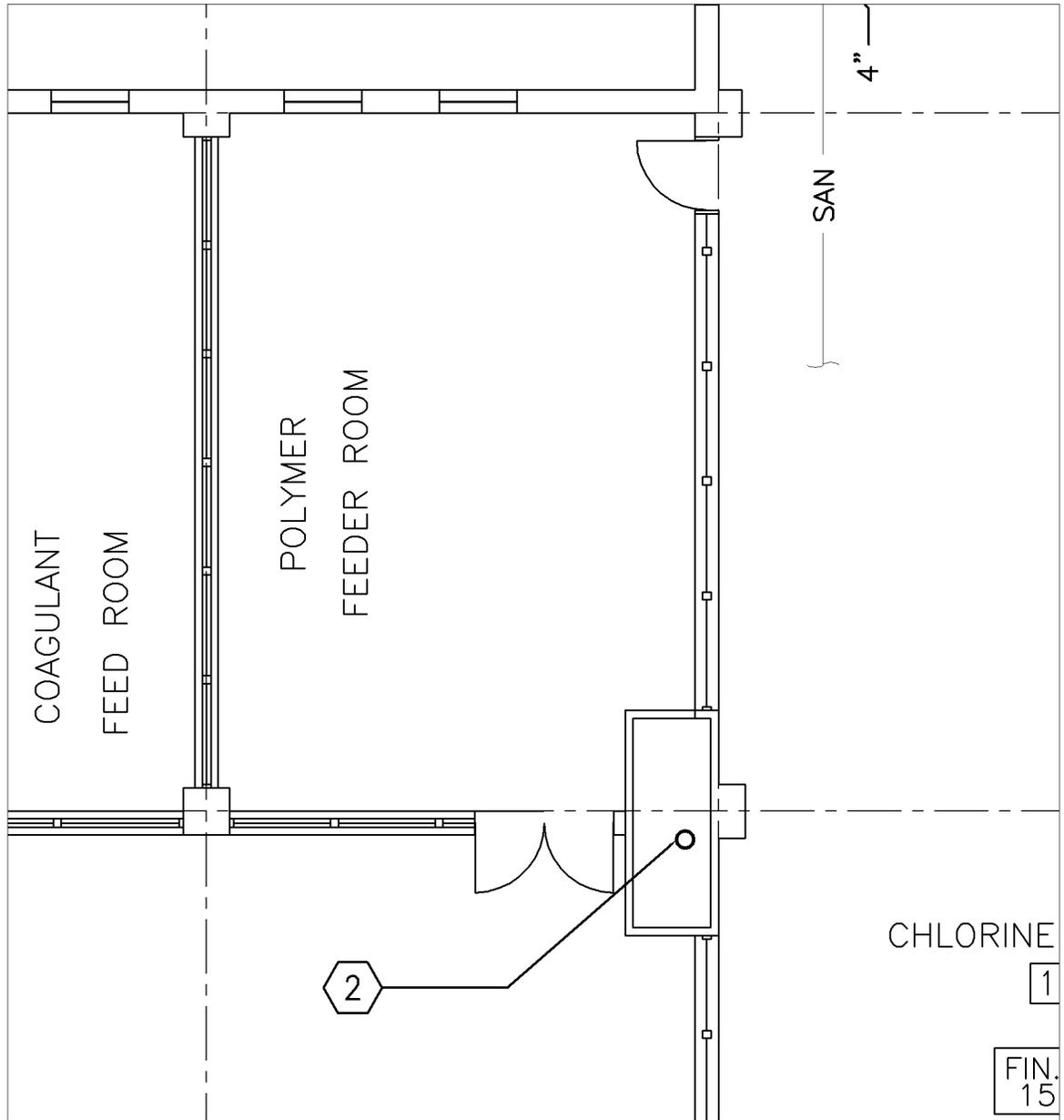
SKETCH SK-8
 DATE: 17 DEC, 2003



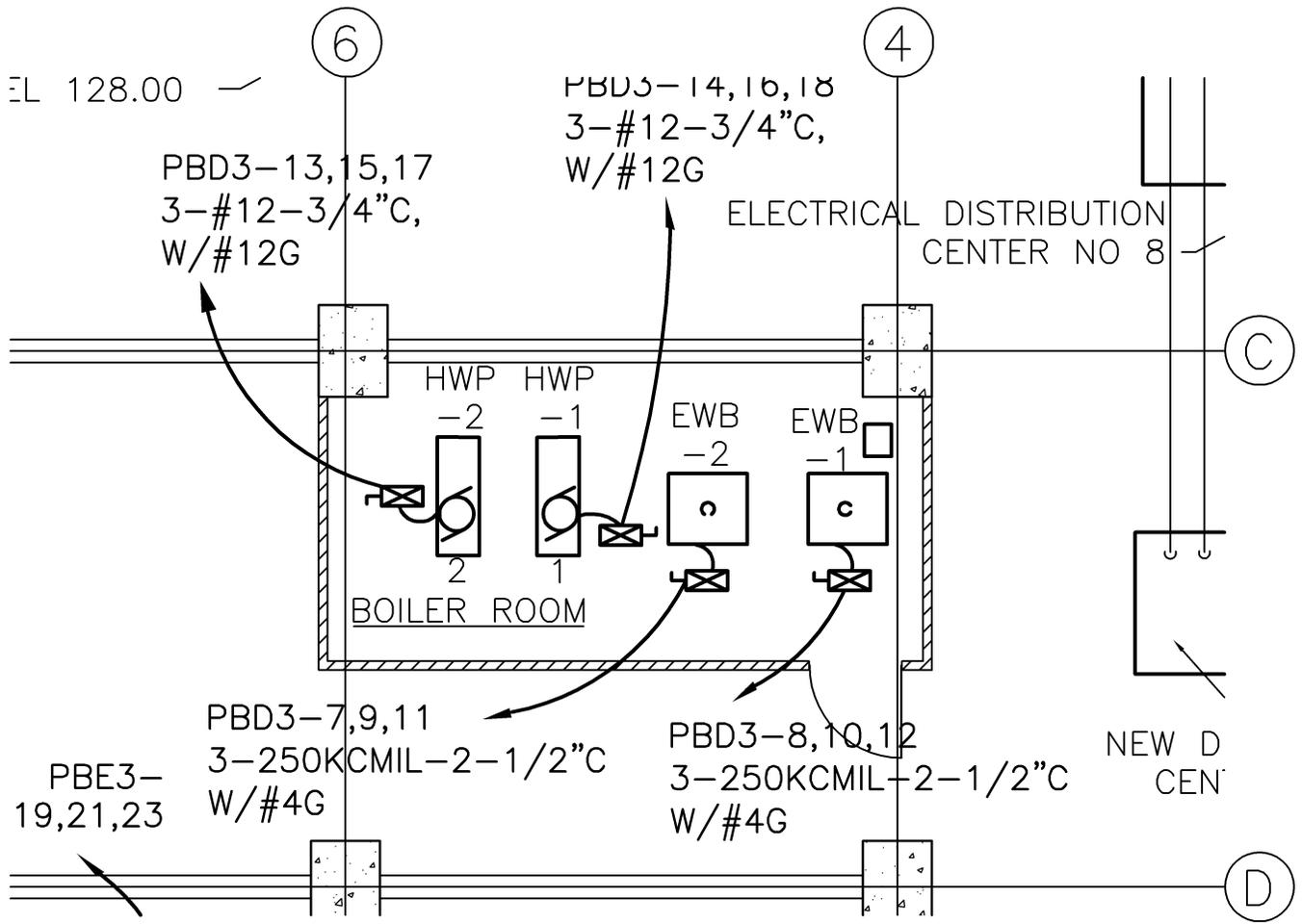
SKETCH SK-9
 DATE: 17 DEC, 2003



SKETCH SK-10
DATE: 17 DEC, 2003



SKETCH SK-11
DATE: 17 DEC, 2003



1 BASEMENT PLAN

SKETCH SK-12
DATE: 17 DEC, 2003