SECTION 01 1000
SUMMARY OF CONTRACTS

PART 1 GENERAL

1.01 PROJECT

A. Project Name: Yonkers Public Schools – Robert C. Dodson School Roof Renovation

B. Owner's Name: Yonkers Public Schools.

C. Engineer's Name: Eisenbach & Ruhnke Engineering, P.C.

D. The Project consists of renovations to the roof to correct problems and unclog drains.

E. The roofing materials were tested and found to not contain asbestos. The report is attached to this section.

1.02 DESCRIPTION OF ALTERATIONS WORK

A. Scope defined above and indicated on Drawings.

B. The project includes renovations to the building.

C. The schedule is to be coordinated with the Owner.

1.03 OWNER OCCUPANCY

A. Owner intends to continue to occupy adjacent portions of the existing building during the entire construction period.

B. Cooperate with Owner to minimize conflict and to facilitate Owner's operations.

C. Schedule the Work to accommodate Owner occupancy.

1.04 CONTRACTOR USE OF SITE AND PREMISES

A. Arrange use of site and premises to allow:
   1. Owner occupancy.
   2. Work by Others.

B. Provide access to and from site as required by law and by Owner:
   1. Emergency Building Exits During Construction: Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.
   2. Do not obstruct roadways, sidewalks, or other public ways without permit.

C. Utility Outages and Shutdown:
   1. Limit disruption of utility services to hours the building is unoccupied.
   2. Do not disrupt or shut down life safety systems, including but not limited to fire sprinklers and fire alarm system, without 7 days notice to Owner and authorities having jurisdiction.
   3. Prevent accidental disruption of utility services to other facilities.

1.05 WORK SEQUENCE

A. Coordinate with Engineer, Construction Manager and District Representative.

1.06 EQUIVALENCY CLAUSE

A. Where, in these specifications, certain kinds, types, brands, or manufacturers of material are named, they shall be regarded as the standard of quality. Where two or more are named the Contractor may select one of those items, subject to meeting the requirements of the specified product.. If the contractor desires to use any kind, type, brand, or manufacture of material other than those named in the specification, he shall indicate in writing, and prior to award of the contract, what kind, type, brand, or manufacture is included in the base bid for the specified

items. Submit information describing in specific detail, wherein it differs from the quality and performance required by the base specifications, and such other information as may be required by the Owner. Contractor shall refer to Section 01 6000.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

LIMITED ASBESTOS SURVEY FOR
YONKERS PUBLIC SCHOOLS
2013 BUILDING RENOVATION PROJECT
ROBERT C. DODSON SCHOOL
105 AVONDALE ROAD
YONKERS, NEW YORK 10710

E&R Project # 13001E
YPS Project # 10458

Issued: March 10, 2014

Prepared For:

Jennifer Hubbard
Yonkers City School District
1 Larkin Center
Yonkers, NY 10701
(914) 376-8100

Prepared By:

Eisenbach & Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501

Date: 3/10/14
Matthew Inman (New York State Accredited Inspector #AH 97-21978)

Date: 3/10/14
Kyle Roberts (New York State Accredited Inspector #AH 09-13240)

Reviewed By:

Date: 3/12/14
Mark Ruhnke P.E.
Vice President

TABLE OF CONTENTS

LIMITED ASBESTOS SURVEY
YONKERS PUBLIC SCHOOLS
ROBERT C. DODSON SCHOOL

1.0 INSPECTION SUMMARY

The following report is a summary of the limited asbestos testing performed by Eisenbach & Ruhnke Engineering, P.C. (E&R) at Robert C. Dodson School (Dodson) located at 105 Avondale Road in Yonkers, NY. The testing was performed to identify Asbestos Containing Materials that would be impacted by the upcoming 2014 Building Renovations Project. The survey included testing all areas proposed to be renovated. In addition to the survey, all building materials that were previously assumed to be Asbestos Containing Materials (ACM) in the District's AHERA, reports completed by J.C. Broderick & Associates, were tested to confirm if they were ACM or non-ACM. The AHERA reports were updated to reflect this new information. The updated AHERA tables are included as Appendix D to the reports.

The inspection was performed and samples were collected on the following dates:

Date	Inspector	License Number
October 21st - 22nd, 2013	Matthew Inman	AH97-21978
October 21st - 22nd, 2013	Kyle Roberts	AH09-13240
October 29, 2013	Matthew Inman	AH97-21978

This survey is for the purpose of identifying approximate locations and quantities of accessible asbestos containing materials that would be disturbed by the proposed renovations. The inspection included the sampling of all materials that would be impacted by the project and that were accessible during the time of the inspection. This survey is not intended for the purposes of planning the scope, timing, phasing, and/or remediation methods on any asbestos containing materials identified herein. The Owner and/or their representatives are responsible for verifying exact quantities, types, and locations prior to any renovation and demolition work. No exterior materials were tested as part of this survey.

2.0 ASBESTOS TESTING

Friable samples collected were read using Polarized Light Microscopy (PLM). Non-friable organically bound samples were analyzed utilizing gravimetric reduction with Polarized Light Microscopy (PLM) and Transmission Electron Microscopy (TEM) confirmation of all PLM negatives. AmeriSci Laboratories, Inc analyzed all samples.

Asbestos containing materials are those which were found to contain greater than 1% asbestos. Some materials were found to contain less than or equal to 1% asbestos and are known as "trace" concentration materials. Under Federal and New York State regulations and guidelines, trace materials are *not* defined as asbestos containing materials.

A summary of asbestos containing materials which were identified during the inspection are presented in Section 3.0. Refer to Appendix A for the Bulk Sample Logs and laboratory report of analysis for the samples collected, Appendix B for drawings showing bulk sample locations and locations of spaces, Appendix C for certifications and accreditations, and Appendix D for the updated AHERA Table.

3.0 FINDINGS

The following materials were found to contain greater than 1% asbestos:

Surfacing Materials

Concrete Block Filler - The filler used to seal the porous surfaces of concrete blocks was tested and found to contain asbestos in Space C312. Additional testing throughout the building yielded negative results and the material has been defined as being located only in Space C312.

Wall Plaster - The Wall Plaster found in a few select areas contains asbestos. It is labeled as "Wall Coating on Concrete Block" in the asbestos testing chain of custody. The material is located in the following spaces: B109 and B122.

Thermal Materials

Wiring - The wiring used for the old Auditorium lighting is present but dismantled on the catwalk system above the Auditorium. There are approximately 4 light rigs with the asbestos wiring attached to it.

Miscellaneous Materials

Door Glaze - The glazing used to seal the windows inside the doors in the Lobby area contain asbestos. The material is located in Space B100 only.

Duct Pin Mastic - Mastic used to adhere metal pins to the side of the air handling ductwork contains asbestos. There is an estimated 300 Square Feet of this material present in the following Spaces: A132, A150, and B0003.

9x9 Floor Tile/Mastic - There is approximately 300 square feet of asbestos floor tile mastic located in the following spaces: A152, A153 and A154.

Interior Window Glaze - Window glazing throughout the building has been tested and found to contain asbestos.

Sink Mastic - Mastic applied to the bottoms of stainless steel sinks as a waterproofing agent contains asbestos. There is 1 sink present in each of the following Space IDs : B116, C103, C104, C106, C109, C112, and C207.

Countertop Mastic - Mastic used to seal the countertop to the underlying cabinet base in Space ID C216 contains asbestos.

A summary of asbestos containing materials which were identified during the inspection are presented in Section 3.0. Refer to Appendix A for the Bulk Sample Logs and laboratory report of analysis for the samples collected, Appendix B for drawings showing bulk sample locations and locations of spaces, Appendix C for certifications and accreditations, and Appendix D for the updated AHERA Table.

3.0 FINDINGS

The following materials were found to contain greater than 1% asbestos:

Surfacing Materials

Concrete Block Filler - The filler used to seal the porous surfaces of concrete blocks was tested and found to contain asbestos in Space C312. Additional testing throughout the building yielded negative results and the material has been defined as being located only in Space C312.

Wall Plaster - The Wall Plaster found in a few select areas contains asbestos. It is labeled as "Wall Coating on Concrete Block" in the asbestos testing chain of custody. The material is located in the following spaces: B109 and B122.

Thermal Materials

Wiring - The wiring used for the old Auditorium lighting is present but dismantled on the catwalk system above the Auditorium. There are approximately 4 light rigs with the asbestos wiring attached to it.

Miscellaneous Materials

Door Glaze - The glazing used to seal the windows inside the doors in the Lobby area contain asbestos. The material is located in Space B100 only.

Duct Pin Mastic - Mastic used to adhere metal pins to the side of the air handling ductwork contains asbestos. There is an estimated 300 Square Feet of this material present in the following Spaces: A132, A150, and B0003.

9x9 Floor Tile/Mastic - There is approximately 300 square feet of asbestos floor tile mastic located in the following spaces: A152, A153 and A154.

Interior Window Glaze - Window glazing throughout the building has been tested and found to contain asbestos.

Sink Mastic - Mastic applied to the bottoms of stainless steel sinks as a waterproofing agent contains asbestos. There is 1 sink present in each of the following Space IDs : B116, C103, C104, C106, C109, C112, and C207.

Countertop Mastic - Mastic used to seal the countertop to the underlying cabinet base in Space ID C216 contains asbestos

Appendix A – Bulk Sample Logs/Laboratory Analysis Results

(See Appendix B – for Drawings Showing Sample Locations)

Robert C. Dodson School
ER Project # 13001E
YPS Project # 10458

Eisenbach & Ruhnke
ENGINEERING, P.C.

Ameri-Sci Job # 213103856

ASBESTOS BULK SAMPLE LOG
Yonkers Public Schools
Robert C. Dodson School
Yonkers, NY

Project #13001E
YPS Project # 10458

SAMPLE #	PLM RESULTS	TEM RESULTS	HOMO ID #	MATERIAL SAMPLED	SAMPLE LOCATION
D080	**TRACE**	**2.2% (ACM)**	**37**	**Door Glaze**	**Space B100**
D081	**TRACE**	**NA/PS**	**37**	**Door Glaze**	**Space B100**
D082	**6% (ACM)**	**NA**	**38**	**Duct Pin Mastic**	**Space A132**
D083	**NA/PS**	**NA**	**38**	**Duct Pin Mastic**	**Space B0003**
D084	NAD	NA	39	Vibration Cloth - Green	Space A132
D085	NAD	NA	39	Vibration Cloth - Green	Space B0003
D086	**1.8% (ACM)**	**NA**	**40**	**Wall Coating on Concrete Block**	**Space B122**
D087	**2.0% (ACM)**	**NA**	**40**	**Wall Coating on Concrete Block**	**Space B122**
D088	**1.5% (ACM)**	**NA**	**40**	**Wall Coating on Concrete Block**	**Space B122**
D089	NAD	NAD	41	Cove Base - 4" Yellow Mastic	Space A130
D090	NAD	NAD	41	Cove Base - 4" Yellow Mastic	Space A130
D091	NAD	NAD	42	Cove Base - 4" Black	Space A130
D092	NAD	NAD	42	Cove Base - 4" Black	Space A130
D093	NAD	NAD	43	1'x1' Floor Tile - Maroon	Space A155B
D094	NAD	NAD	43	1'x1' Floor Tile - Maroon	Space A155B
D095	NAD	NAD	44	1'x1' Floor Tile - Brown	Space A151
D096	NAD	NAD	44	1'x1' Floor Tile - Brown	Space A157
D097	**2.2% (ACM)**	**NA**	**45**	**9"x9" Floor Tile Mastic - Black**	**Space A152**
D098	**NA/PS**	**NA**	**45**	**9"x9" Floor Tile Mastic - Black**	**Space A154**
D099	NA	NA	46	9"x9" Floor Tile - Yellow	Space A152
D100	NA	NA	46	9"x9" Floor Tile - Yellow	Space A154
D101	NAD	NAD	47	Mastic Puck - Black	Space C120

LEGEND

ACM = Asbestos Containing Material - Contains Greater than 1% asbestos by weight.

Trace = Asbestos was NOT detected above the regulatory limit of 1% by weight.

NAD = No Asbestos Detected

NA/PS = Sample was not analyzed, but is grouped with another that tested positive for asbestos.

NA = Sample was not analyzed. Either a NOB sample that tested positive under PLM, or a friable sample that is not analyzed by TEM.

Samples Collected: 10.22.13
Samples Collected by: Matt Inman
~~NYS Accredited Inspector #: 97-21978~~

Eisenbach & Ruhnke
ENGINEERING, P.C.

Ameri-Sci Job # 213103856

ASBESTOS BULK SAMPLE LOG
Yonkers Public Schools
Robert C. Dodson School
Yonkers, NY

Project #13001E
YPS Project # 10458

SAMPLE #	PLM RESULTS	TEM RESULTS	HOMO ID #	MATERIAL SAMPLED	SAMPLE LOCATION
D102	NAD	NAD	47	Mastic Puck - Black	Space C120
D103	NAD	NAD	48	Duct Insulation Jacket Mastic	Space 160A1
D104	NAD	NAD	48	Duct Insulation Jacket Mastic	Space 160A1
D105	NAD	NA	49	Fitting	Space A118
D106	NAD	NA	49	Fitting	Space A118
D107	NAD	NA	49	Fitting	Space A118
D108	NAD	NA	50	Gypsum Wallboard	Space A118
D109	NAD	NA	50	Gypsum Wallboard	Space A118
D110	NAD	NA	51	Joint Compound	Space A118
D111	NAD	NA	51	Joint Compound	Space A118
D112	NAD	NA	52	Incinerator Brick	Space A118
D113	NAD	NA	52	Incinerator Brick	Space A118
D114	NAD	NA	52	Incinerator Brick	Space A118
D115	NAD	NA	53	Brick Mortar	Space A118
D116	NAD	NA	53	Brick Mortar	Space A118
D117	NAD	NA	53	Brick Mortar	Space A118

LEGEND

ACM = Asbestos Containing Material - Contains Greater than 1% asbestos by weight.

Trace = Asbestos was NOT detected above the regulatory limit of 1% by weight.

NAD = No Asbestos Detected

NA/PS = Sample was not analyzed, but is grouped with another that tested positive for asbestos.

NA = Sample was not analyzed. Either a NOB sample that tested positive under PLM, or a friable sample that is not analyzed by TEM.

Samples Collected: 10.22.13
Samples Collected by: Matt Inman
NYS Accredited Inspector #: 97-21978

Eisenbach & Ruhnke
ENGINEERING, P.C.

Ameri-Sci Job # 213103718

ASBESTOS BULK SAMPLE LOG

Project #13001E
YPS # 10458

Yonkers Public Schools
Robert C. Dodson School
Yonkers, NY

SAMPLE #	PLM RESULTS	TEM RESULTS	HOMO ID #	MATERIAL SAMPLED	SAMPLE LOCATION
D001	NAD	NAD	1	1'x1' Floor Tile Mastic - Black	Space 302
D002	NAD	NAD	1	1'x1' Floor Tile Mastic - Black	Space 208
D003	NAD	NAD	2	1'x1' Floor Tile - Beige	Space 302
D004	NAD	NAD	2	1'x1' Floor Tile - Beige	Space 208
D005	NAD	TRACE	3	Door Glaze	Space 302
D006	NAD	TRACE	3	Door Glaze	Space 202
D007	NAD	NAD	4	Window Glaze - Interior	Space 301
D008	**TRACE**	**2.9% (ACM)**	**4**	**Window Glaze - Interior**	**Stairwell C103A**
D009	NAD	NA/PS	5	Concrete Block	Space 307
D010	NAD	NA/PS	5	Concrete Block	Space 112
D011	NAD	NA/PS	6	Concrete Block Mortar	Space 312
D012	NAD	NA/PS	6	Concrete Block Mortar	Space 112
D013	**1.5% (ACM)**	**2.4% (ACM)**	**7**	**Concrete Block Filler**	**Space 312**
D014	TRACE	TRACE	7	Concrete Block Filler	Space 112
D015	NAD	NA	8	Terrazzo Flooring	Space 323 Hall
D016	NAD	NA	8	Terrazzo Flooring	Space 126 Hall
D017	NAD	NA	9	4" Ceramic Glue	Space 321
D018	TRACE	NA	9	4" Ceramic Glue	Space 320
D019	NAD	NA	10	4" Ceramic Grout	Space 320
D020	NAD	NA	10	4" Ceramic Grout	Space 321
D021	NAD	NA	11	1" Ceramic Grout	Space 320
D022	NAD	NA	11	1" Ceramic Grout	Space 321
D023	NAD	NA	12	Mortar Patch - White	Space 308
D024	NAD	NA	12	Mortar Patch - White	Space 308
D025	NAD	NA	12	Mortar Patch - White	Space 307

LEGEND

ACM = Asbestos Containing Material - Contains Greater than 1% asbestos by weight.
Trace = Asbestos was NOT detected above the regulatory limit of 1% by weight.
NAD = No Asbestos Detected
NA/PS = Sample was not analyzed, but is grouped with another that tested positive for asbestos.
NA = Sample was not analyzed. Either a NOB sample that tested positive under PLM, or a friable sample that is not analyzed by TEM.

Samples Collected: 10.21-22.13
Samples Collected by: Matt Inman
~~NYS Accredited Inspector #: 97-21978~~

Eisenbach & Ruhnke
ENGINEERING, P.C.

Ameri-Sci Job # 213103718

ASBESTOS BULK SAMPLE LOG

Project #13001E
YPS # 10458

Yonkers Public Schools
Robert C. Dodson School
Yonkers, NY

SAMPLE #	PLM RESULTS	TEM RESULTS	HOMO ID #	MATERIAL SAMPLED	SAMPLE LOCATION
D026	NAD	NA	13	Gypsum Deck	Space C323
D027	NAD	NA	13	Gypsum Deck	Space C323
D028	NAD	NAD	14	Roof Tar	Space C323
D029	NAD	NAD	14	Roof Tar	Space C323
D030	NAD	NAD	15	Roofing Paper	Space C323
D031	NAD	NAD	15	Roofing Paper	Space C323
D032	NAD	NA	16	Roof Drain Insulation	Space C323
D033	NAD	NA	16	Roof Drain Insulation	Space C323
D034	NAD	NA	16	Roof Drain Insulation	Space C323
D035	NAD	NA	17	Gypsum Wallboard	Stairwell C124A
D036	NAD	NA	17	Gypsum Wallboard	Stairwell C218A
D037	NAD	NA	18	Joint Compound	Space C303A
D038	NAD	NA	18	Joint Compound	Space C303A
D039	NAD	NAD	19	Carpet Mastic - Yellow	Space 204
D040	NAD	NAD	19	Carpet Mastic - Yellow	Space 204
D041	NAD	NA	20	Cement Decking	Space C224
D042	NAD	NA	20	Cement Decking	Space C224
D043	NAD	NA	20	Cement Decking	Space C224
D044	NAD	NAD	21	F.G. Pipe Jacket Mastic	Space 218
D045	NAD	NAD	21	F.G. Pipe Jacket Mastic	Space 217
D046	NAD	NAD	22	F.G. Pipe Insulation Jacket (Paper Foi	Space 224
D047	NAD	NAD	22	F.G. Pipe Insulation Jacket (Paper Foi	Space 215
D048	NAD	NAD	22	F.G. Pipe Insulation Jacket (Paper Foi	Space 222
D049	NAD	NA	23	F.G. Pipe Insulation Jacket (Cloth)	Space 218
D050	NAD	NA	23	F.G. Pipe Insulation Jacket (Cloth)	Space 219
D051	NAD	NA	23	F.G. Pipe Insulation Jacket (Cloth)	Space 223

LEGEND

ACM = Asbestos Containing Material - Contains Greater than 1% asbestos by weight.

Trace = Asbestos was NOT detected above the regulatory limit of 1% by weight.

NAD = No Asbestos Detected

NA/PS = Sample was not analyzed, but is grouped with another that tested positive for asbestos.

NA = Sample was not analyzed. Either a NOB sample that tested positive under PLM, or a friable sample that is not analyzed by TEM.

Samples Collected: 10.21-22.13
Samples Collected by: Matt Inman
~~NYS Accredited Inspector #: 97-21978~~

Eisenbach & Ruhnke
ENGINEERING, P.C.

Ameri-Sci Job # 213103718

ASBESTOS BULK SAMPLE LOG

Project #13001E
YPS # 10458

Yonkers Public Schools
Robert C. Dodson School
Yonkers, NY

SAMPLE #	PLM RESULTS	TEM RESULTS	HOMO ID #	MATERIAL SAMPLED	SAMPLE LOCATION
D052	NAD	NA	24	F.G. Pipe Insulation (Foil New)	Space 216
D053	NAD	NA	24	F.G. Pipe Insulation (Foil New)	Space 201
D054	NAD	NA	24	F.G. Pipe Insulation (Foil New)	Space 201
D055	**7.2% (ACM)**	**NA**	**25**	**Sink Mastic - Black**	**Space 207**
D056	**NA/PS**	**NA**	**25**	**Sink Mastic - Black**	**Space 112**
D057	NAD	NA	26	Countertop	Space 216
D058	NAD	NA	26	Countertop	Space 131
D059	NAD	NA	27	Sink	Space 216
D060	NAD	NA	27	Sink	Space 131
D061	**14.2% (ACM)**	**NA**	**28**	**Countertop Mastic**	**Space 216**
D062	**NA/PS**	**NA**	**28**	**Countertop Mastic**	**Space 216**
D063	NAD	NAD	29	Countertop Caulk	Space 216
D064	NAD	NAD	29	Countertop Caulk	Space 216
D065	NAD	NAD	30	F.G. Pipe Jacket Mastic	Space 201
D066	NAD	NAD	30	F.G. Pipe Jacket Yellow	Space 201
D067	NAD	NA	31	Firebrick - Kiln	Space C120A
D068	NAD	NA	31	Firebrick - Kiln	Space C120A
D069	NAD	NA	31	Firebrick - Kiln	Space C120A
D070	NAD	NA	32	Gypsum Wallboard - Beige	Space 120
D071	NAD	NA	32	Gypsum Wallboard - Beige	Space 120A
D072	NAD	NA	33	Joint Compound for Beige Sheetrock	Space 120
D073	NAD	NA	33	Joint Compound for Beige Sheetrock	Space 120A
D074	NAD	NAD	34	Cove Base Mastic - White	Space 120B
D075	NAD	NAD	34	Cove Base Mastic - White	Space 113A
D076	NAD	NAD	35	Cove Base 6" - Brown	Space 113A

LEGEND

ACM = Asbestos Containing Material - Contains Greater than 1% asbestos by weight.

Trace = Asbestos was NOT detected above the regulatory limit of 1% by weight.

NAD = No Asbestos Detected

NA/PS = Sample was not analyzed, but is grouped with another that tested positive for asbestos.

NA = Sample was not analyzed. Either a NOB sample that tested positive under PLM, or a friable sample that is not analyzed by TEM.

Samples Collected: 10.21-22.13
Samples Collected by: Matt Inman
NYS Accredited Inspector #: 97-21978

Eisenbach & Ruhnke
ENGINEERING, P.C.

Ameri-Sci Job # 213103718

ASBESTOS BULK SAMPLE LOG

Project #13001E
YPS # 10458

Yonkers Public Schools
Robert C. Dodson School
Yonkers, NY

SAMPLE #	PLM RESULTS	TEM RESULTS	HOMO ID #	MATERIAL SAMPLED	SAMPLE LOCATION
D077	NAD	NAD	35	Cove Base 6" - Brown	Space 120
D078	NAD	NAD	36	1'x1' Floor Tile - Off White	Space 108
D079	NAD	NAD	36	1'x1' Floor Tile - Off White	Space 113A

LEGEND

ACM = Asbestos Containing Material - Contains Greater than 1% asbestos by weight.

Trace = Asbestos was NOT detected above the regulatory limit of 1% by weight.

NAD = No Asbestos Detected

NA/PS = Sample was not analyzed, but is grouped with another that tested positive for asbestos.

NA = Sample was not analyzed. Either a NOB sample that tested positive under PLM, or a friable sample that is not analyzed by TEM.

Samples Collected: 10.21-22.13
Samples Collected by: Matt Inman
~~NYS Accredited Inspector #: 97-21978~~

Eisenbach & Ruhnke
ENGINEERING, P.C.

AmeriSci Job # 213104716

ASBESTOS BULK SAMPLE LOG

Project #13001E
YPS # 10458

Yonkers Public Schools
Robert C. Dodson School
Yonkers, NY

SAMPLE #	PLM RESULTS	TEM RESULTS	HOMO ID #	MATERIAL SAMPLED	SAMPLE LOCATION
001	NAD	NA	7	Concrete Block Filler	Space B101
002	NAD	NA	7	Concrete Block Filler	Space B1118A
003	NAD	NA	7	Concrete Block Filler	Space C106
004	NAD	NA	7	Concrete Block Filler	Space C204
005	NAD	NA	7	Concrete Block Filler	Space C213
006	NAD	NA	7	Concrete Block Filler	Space C315
007	NAD	NA	7	Concrete Block Filler	Space A130
008	NAD	NA	7	Concrete Block Filler	Space C145
009	NAD	NA	7	Concrete Block Filler	Space A114
010	Trace	NA	7	Concrete Block Filler	Space A102

LEGEND

ACM = Asbestos Containing Material - Contains Greater than 1% asbestos by weight.
Trace = Asbestos was NOT detected above the regulatory limit of 1% by weight.
NAD = No Asbestos Detected
NA/PS = Sample was not analyzed, but is grouped with another that tested positive for asbestos.
NA = Sample was not analyzed. Either a NOB sample that tested positive under PLM, or a friable sample that is not analyzed by TEM.

Samples Collected: 10.29.13
Samples Collected by: Matt Inman
NYS Accredited Inspector #: 97-21978

Eisenbach & Ruhnke
ENGINEERING, P.C.

EMSL Job # 031342548

ASBESTOS BULK SAMPLE LOG

Project #13001E
YPS # 10458

Yonkers Public Schools
Robert C. Dodson School
Yonkers, NY

SAMPLE #	PLM RESULTS	TEM RESULTS	HOMO ID #	MATERIAL SAMPLED	SAMPLE LOCATION
001	NAD	Trace	7	Concrete Block Filler	Space B101
002	NAD	NAD	7	Concrete Block Filler	Space B1118A
003	NAD	Trace	7	Concrete Block Filler	Space C106
004	NAD	NAD	7	Concrete Block Filler	Space C204
005	NAD	NAD	7	Concrete Block Filler	Space C213
006	NAD	Trace	7	Concrete Block Filler	Space C315
007	NAD	NAD	7	Concrete Block Filler	Space A130
008	NAD	NAD	7	Concrete Block Filler	Space C145
009	NAD	NAD	7	Concrete Block Filler	Space A114
010	NAD	Trace	7	Concrete Block Filler	Space A102

LEGEND

ACM = Asbestos Containing Material - Contains Greater than 1% asbestos by weight.
Trace = Asbestos was NOT detected above the regulatory limit of 1% by weight.
NAD = No Asbestos Detected
NA/PS = Sample was not analyzed, but is grouped with another that tested positive for asbestos.
NA = Sample was not analyzed. Either a NOB sample that tested positive under PLM, or a friable sample that is not analyzed by TEM.

Samples Collected: 10.29.13
Samples Collected by: Matt Inman
NYS Accredited Inspector #: 97-21978

Eisenbach & Ruhnke
ENGINEERING, P.C.

AmeriSci #213123883

ASBESTOS BULK SAMPLE LOG

Project #13001E
YPS # 10458

Yonkers Public Schools
Robert C. Dodson School
Yonkers, NY

SAMPLE #	PLM RESULTS	TEM RESULTS	HOMO ID #	MATERIAL SAMPLED	SAMPLE LOCATION
118	80.00%	NA		Wiring	Catwalk Auditorium
119	NA/PS	NA		Wiring	Catwalk Auditorium
120	NA/PS	NA		Wiring	Catwalk Auditorium

LEGEND

ACM = Asbestos Containing Material - Contains Greater than 1% asbestos by weight.
Trace = Asbestos was NOT detected above the regulatory limit of 1% by weight.
NAD = No Asbestos Detected
NA/PS = Sample was not analyzed, but is grouped with another that tested positive for asbestos.
NA = Sample was not analyzed. Either a NOB sample that tested positive under PLM, or a friable sample that is not analyzed by TEM.

Samples Collected: 12.23.13
Samples Collected by: Matt Inman
NYS Accredited Inspector #: 97-21978

AmeriSci New York
117 EAST 30TH STREET
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-9392

October 31, 2013

Eisenbach & Ruhnke Engineering, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

RE: Eisenbach & Ruhnke Engineering, P.C.
Job Number 213103718
P.O. #13001E
13001E; Yonkers PS; Robert C. Dodson School (Report Amended 10/31/2013)

Dear Jack Eisenbach:

Enclosed are the results of Asbestos Analysis - Bulk Protocol of the following Eisenbach & Ruhnke Engineering, P.C. samples, received at AmeriSci on Wednesday, October 23, 2013, for a 48 hour turnaround:

D001, D002, D003, D004, D005, D006, D007, D008, D009, D010, D011, D012, D013, D014, D015, D016, D017, D018, D019, D020, D021, D022, D023, D024, D025, D026, D027, D028, D029, D030, D031, D032, D033, D034, D035, D036, D037, D038, D039, D040, D041, D042, D043, D044, D045, D046, D047, D048, D049, D050, D051, D052, D053, D054, D055, D056, D057, D058, D059, D060, D061, D062, D063, D064, D065, D066, D067, D068, D069, D070, D071, D072, D073, D074, D075, D076, D077, D078, D079

The 79 samples, placed in Zip Lock Bag, were shipped to AmeriSci via Federal Express. Eisenbach & Ruhnke Engineering, P.C. requested ELAP PLM/TEM analysis of these samples.

The results of the analyses which were performed following ELAP Protocols 198.1 PLM Friable and/or 198.6 for PLM NOB. ELAP Protocol 198.4 TEM NOB guidelines are presented within the Summary Table of this report. The presence of matrix reduction data in the Summary Table normally indicates an NOB sample. For NOB samples the individual matrix reduction, combined PLM and TEM analysis results are listed in the Summary Bulk Asbestos Analysis Results in Table I. Complete PLM results for individual samples are presented in the PLM Bulk Asbestos Report. Samples near 1% asbestos may be analyzed by EPA 400 pt ct method EPA 600/M4-82-020. This combined report relates ONLY to sample analysis expressed as percent composition by weight and percent asbestos. This report must not be used to claim product endorsement or approval by these laboratories, NVLAP, ELAP or any other associated agency. This report must not be reproduced, except in full without the written approval of the laboratory. This report may contain specific data not covered by NVLAP or ELAP accreditations respectively, if so identified in relevant footnotes.

AmeriSci appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

Paul J. Mucha
Laboratory Director

AmeriSci New York
117 EAST 30TH ST.
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-3114

PLM Bulk Asbestos Report

Eisenbach & Ruhnke Engineering, P.C.
Attn: Jack Eisenbach
291 Genesee Street

Utica, NY 13501

Date Received 10/23/13 **AmeriSci Job #** 213103718
Date Examined 10/24/13 **P.O. #**
ELAP # 11480 **Page** 1 **of** 14
RE: 13001E; Yonkers PS; Robert C. Dodson School (Report Amended 10/31/2013)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D001 1	213103718-01 **Location:** 1x1 FT Mastic - Black - Space 302	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/24/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 7.3 %			
D002 1	213103718-02 **Location:** 1x1 FT Mastic - Black - Space 208	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 25.4 %			
D003 1	213103718-03 **Location:** 1x1 FT - Beige - Space 302	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: Beige, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 1.6 %			
D004 1	213103718-04 **Location:** 1x1 FT - Beige - Space 208	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: Beige, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 1.3 %			
D005 2	213103718-05 **Location:** Door Glaze - Space 302	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 6.7 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

13001E; Yonkers PS; Robert C. Dodson School (Report Amended 10/31/2013)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D006 2	213103718-06 **Location:** Door Glaze - Space 202	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 6.1 %			
D007 3	213103718-07 **Location:** Window Glaze - Interior - Space 301	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 1.1 %			
D008 3	213103718-08 **Location:** Window Glaze - Interior - Stairwell C103A	***Yes***	Trace (<0.25 % pc) [1] (EPA 400 PC) by Karol H. Lu on 10/25/13
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile <0.25 % pc **Other Material:** Non-fibrous 9.7 %			
D009 4	213103718-09 **Location:** Concrete Block - Space 309	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D010 4	213103718-10 **Location:** Concrete Block - Space 112	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D011 4	213103718-11 **Location:** Concrete Block Mortar- Space 312	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

13001E; Yonkers PS; Robert C. Dodson School (Report Amended 10/31/2013)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D012 4	213103718-12 **Location:** Concrete Block Mortar- Space 112	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D013 4	213103718-13 **Location:** Concrete Block Filler- Space 312	***Yes***	1.5 % (EPA 400 PC) by Karol H. Lu on 10/25/13
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 1.5 % **Other Material:** Non-fibrous 96.5 %, Vermiculite 2 %			
D014 4	213103718-14 **Location:** Concrete Block Filler- Space 112	***Yes***	0.3 % (EPA 400 PC) by Karol H. Lu on 10/28/13
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 0.3 % **Other Material:** Non-fibrous 97.7 %, Vermiculite 2 %			
D015 5	213103718-15 **Location:** Terrazzo Flooring - Space 323 - Hall	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D016 5	213103718-16 **Location:** Terrazzo Flooring - Space 126 - Hall	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D017 6	213103718-17 **Location:** 4" Ceramic Glue - Space 321	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 % **Comment:** Sample submitted is friable.			

See Reporting notes on last page

PLM Bulk Asbestos Report

13001E; Yonkers PS; Robert C. Dodson School (Report Amended 10/31/2013)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D018 6	213103718-18	***Yes***	Trace (<0.25 % pc) (EPA 400 PC) by Karol H. Lu on 10/25/13
	Location: 4" Ceramic Glue - Space 320		
	Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Bulk Material		
	Asbestos Types: Chrysotile <0.25 % pc		
	Other Material: Non-fibrous 100 %, Vermiculite Trace		
	Comment: Sample submitted is friable.		
D019 6	213103718-19	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
	Location: 4" Ceramic Grout - Space 320		
	Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
D020 6	213103718-20	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
	Location: 4" Ceramic Grout - Space 321		
	Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
D021 7	213103718-21	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
	Location: 1" Ceramic Grout - Space 320		
	Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
D022 7	213103718-22	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
	Location: 1" Ceramic Grout - Space 321		
	Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		

See Reporting notes on last page

PLM Bulk Asbestos Report

13001E; Yonkers PS; Robert C. Dodson School (Report Amended 10/31/2013)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D023 8	213103718-23 **Location:** Mortar Patch - White - Space 308	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D024 8	213103718-24 **Location:** Mortar Patch - White - Space 308	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D025 8	213103718-25 **Location:** Mortar Patch - White - Space 307	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D026 9	213103718-26 **Location:** Gypsum Deck - Space C323	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Light Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D027 9	213103718-27 **Location:** Gypsum Deck - Space C323	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Light Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D028 10	213103718-28 **Location:** Roof Tar - Space C323	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 2.3 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

13001E; Yonkers PS; Robert C. Dodson School (Report Amended 10/31/2013)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D029 10	213103718-29 **Location:** Roof Tar - Space C323	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 2.9 %			
D030 11	213103718-30 **Location:** Roofing Paper - Space C323	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 14.6 %			
D031 11	213103718-31 **Location:** Roofing Paper - Space C323	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 18.5 %			
D032 12	213103718-32 **Location:** Roof Drain Insul. - Space C323	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Silver/Tan, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 55 %, Non-fibrous 45 %			
D033 12	213103718-33 **Location:** Roof Drain Insul. - Space C323	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Silver/Tan, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 50 %, Non-fibrous 50 %			
D034 12	213103718-34 **Location:** Roof Drain Insul. - Space C323	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Silver/Tan, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 65 %, Non-fibrous 35 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

13001E; Yonkers PS; Robert C. Dodson School (Report Amended 10/31/2013)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D035 13	213103718-35 **Location:** Gypsum Wallboard - Stairwell C124A	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Brown/White, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 15 %, Fibrous glass Trace, Non-fibrous 85 %			
D036 13	213103718-36 **Location:** Gypsum Wallboard - Stairwell C218A	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Brown/White, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 15 %, Fibrous glass Trace, Non-fibrous 85 %			
D037 14	213103718-37 **Location:** Joint Compound - Stairwell C303A	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D038 14	213103718-38 **Location:** Joint Compound - Stairwell C303A	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D039 15	213103718-39 **Location:** Carpet Mastic - Yellow - Space 204 "Physically Inseparable Layers In Sample - Sample Composited For Analysis"	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: Yellow/Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 34.5 %			
D040 15	213103718-40 **Location:** Carpet Mastic - Yellow - Space 204 "Physically Inseparable Layers In Sample - Sample Composited For Analysis"	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: Yellow/Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 36.3 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

13001E; Yonkers PS; Robert C. Dodson School (Report Amended 10/31/2013)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D041 16	213103718-41 **Location:** Cement Decking - Space 224	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Cellulose Trace, Non-fibrous 100 %			
D042 16	213103718-42 **Location:** Cement Decking - Space 224	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D043 16	213103718-43 **Location:** Cement Decking - Space 224	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D044 17	213103718-44 **Location:** F.G. Pipe Jacket Mastic - Space 218	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 9.5 %			
D045 17	213103718-45 **Location:** F.G. Pipe Jacket Mastic - Space 217	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 5 %			
D046 17	213103718-46 **Location:** F.G. Pipe Insul. Jacket (Paper / Foil) - Space	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: Silver/Tan/Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 7.5 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

13001E; Yonkers PS; Robert C. Dodson School (Report Amended 10/31/2013)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D047 17	213103718-47 **Location:** F.G. Pipe Insul. Jacket (Paper / Foil) - Space 215	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: Silver/Tan/Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 10 %			
D048 17	213103718-48 **Location:** F.G. Pipe Insul. Jacket (Paper / Foil) - Space 222	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: Silver/Tan/Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 18.7 %			
D049 18	213103718-49 **Location:** F.G. Pipe Insul. Jacket (Cloth) - Space 218	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Beige/Tan, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 15 %, Fibrous glass 80 %, Non-fibrous 5 %			
D050 18	213103718-50 **Location:** F.G. Pipe Insul. Jacket (Cloth) - Space 219	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Beige/Tan, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 10 %, Fibrous glass 85 %, Non-fibrous 5 %			
D051 18	213103718-51 **Location:** F.G. Pipe Insul. Jacket (Cloth) - Space 223	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Beige/Tan, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 15 %, Fibrous glass 80 %, Non-fibrous 5 %			
D052 19	213103718-52 **Location:** F.G. Pipe Insul. - Foil - New - Space 216	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Silver/White/Yellow, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 50 %, Fibrous glass 20 %, Non-fibrous 30 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

13001E; Yonkers PS; Robert C. Dodson School (Report Amended 10/31/2013)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D053 19	213103718-53 **Location:** F.G. Pipe Insul. - Foil - New - Space 201	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Silver/White, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 50 %, Fibrous glass 15 %, Non-fibrous 35 %			
D054 19	213103718-54 **Location:** F.G. Pipe Insul. - Foil - New - Space 201	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Tan/White, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 50 %, Fibrous glass 15 %, Non-fibrous 35 %			
D055 20	213103718-55 **Location:** Sink Mastic - Black - Space 207	***Yes***	7.2 % (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 7.2 % **Other Material:** Non-fibrous 19.7 %			
D056 20	213103718-56 **Location:** Sink Mastic - Black - Space 112		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
D057 21	213103718-57 **Location:** Countertop - Space 216	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D058 21	213103718-58 **Location:** Countertop - Space 131	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

13001E; Yonkers PS; Robert C. Dodson School (Report Amended 10/31/2013)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D059 22	213103718-59 **Location:** Sink - Space 216	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D060 22	213103718-60 **Location:** Sink - Space 131	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D061 23	213103718-61 **Location:** Countertop Mastic- Space 216	***Yes***	14.2 % (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 14.2 % **Other Material:** Non-fibrous 24.8 %			
D062 23	213103718-62 **Location:** Countertop Mastic- Space 216		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
D063 24	213103718-63 **Location:** Countertop Caulk- Space 216	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 27 %			
D064 24	213103718-64 **Location:** Countertop Caulk- Space 216	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 19.2 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

13001E; Yonkers PS; Robert C. Dodson School (Report Amended 10/31/2013)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D065 25	213103718-65 **Location:** F.G. Pipe Jacket Mastic Yellow - Space 201	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 43.2 %			
D066 25	213103718-66 **Location:** F.G. Pipe Jacket Mastic Yellow - Space 201	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 63.2 %			
D067 26	213103718-67 **Location:** Fire Brick - Kiln - Space 120A	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: OffWhite, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D068 26	213103718-68 **Location:** Fire Brick - Kiln - Space 120A	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: OffWhite, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D069 26	213103718-69 **Location:** Fire Brick - Kiln - Space 120A	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: OffWhite, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D070 27	213103718-70 **Location:** Gypsum Wallboard - Beige -Space 120	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Brown/White, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 10 %, Fibrous glass Trace, Non-fibrous 90 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

13001E; Yonkers PS; Robert C. Dodson School (Report Amended 10/31/2013)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D071 27	213103718-71 **Location:** Gypsum Wallboard - Beige -Space 120A	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: Brown/White, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 10 %, Fibrous glass Trace, Non-fibrous 90 %			
D072 27	213103718-72 **Location:** Joint Compound For Beige SR - Space 120	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D073 27	213103718-73 **Location:** Joint Compound For Beige SR - Space 120A	***No***	NAD (by NYS ELAP 198.1) by Karol H. Lu on 10/25/13
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D074 28	213103718-74 **Location:** Cove Base Mastic - White - Space 120B	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 2.1 %			
D075 28	213103718-75 **Location:** Cove Base Mastic - White - Space 113A	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 26.5 %			
D076 28	213103718-76 **Location:** Cove Base - 6" - Brown - Space 113A	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 40.1 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

13001E; Yonkers PS; Robert C. Dodson School (Report Amended 10/31/2013)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D077 28	213103718-77 **Location:** Cove Base - 6" - Brown - Space 120	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.5 %			
D078 29	213103718-78 **Location:** 1x1 Floor Tile - Off White - Space 108	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: OffWhite, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 20.9 %			
D079 29	213103718-79 **Location:** 1x1 Floor Tile - Off White - Space 113A	***No***	NAD (by NYS ELAP 198.6) by Karol H. Lu on 10/25/13
Analyst Description: OffWhite, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 15.7 %			

Reporting Notes:

(1) Sample prepared for analysis by ELAP 198.6 method

Analyzed by: Karol H. Lu

*NAD/NSD =no asbestos detected; NA =not analyzed; NA/PS=not analyzed/positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200546-0), ELAP PLM Method 198.1 for NY friable samples, which includes the identification and quantitation of vermiculite or 198.6 for NOB samples or EPA 400 pt ct by EPA 600/M4-82-020 (NY ELAP Lab ID11480); Note:PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non asbestos-containing in NY State (also see EPA Advisory for floor tile, FR 59,146,38970,8/1/94) National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the lab.This PLM report relates ONLY to the items tested. AIHA Lab # 102843, RI Cert#AAL-094, CT Cert#PH-0186, Mass Cert#AA000054.

Reviewed By:

END OF REPORT

Client Name: Eisenbach & Ruhnke Engineering, P.C.

Table I
Summary of Bulk Asbestos Analysis Results
13001E; Yonkers PS; Robert C. Dodson School (Report Amended 10/31/2013)

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	D001	1	0.109	82.6	10.1	7.3	NAD	NAD
Location:	1x1 FT Mastic - Black - Space 302							
02	D002	1	0.169	57.4	17.2	25.4	NAD	NAD
Location:	1x1 FT Mastic - Black - Space 208							
03	D003	1	0.367	12.0	86.4	1.6	NAD	NAD
Location:	1x1 FT - Beige - Space 302							
04	D004	1	0.224	12.5	86.2	1.3	NAD	NAD
Location:	1x1 FT - Beige - Space 208							
05	D005	2	0.195	8.2	85.1	6.6	NAD	Anthophyllite Trace
Location:	Door Glaze - Space 302							
06	D006	2	0.212	7.1	86.8	6.0	NAD	Anthophyllite Trace
Location:	Door Glaze - Space 202							
07	D007	3	0.272	3.7	95.2	1.1	NAD	NAD
Location:	Window Glaze - Interior - Space 301							
08	D008	3	0.227	10.1	80.2	6.8	Chrysotile <0.25	Chrysotile 2.9
Location:	Window Glaze - Interior - Stairwell C103A							
09	D009	4	---	---	---	---	NAD	NA/PS
Location:	Concrete Block - Space 309							
10	D010	4	---	---	---	---	NAD	NA/PS
Location:	Concrete Block - Space 112							
11	D011	4	---	---	---	---	NAD	NA/PS
Location:	Concrete Block Mortar- Space 312							
12	D012	4	---	---	---	---	NAD	NA/PS
Location:	Concrete Block Mortar- Space 112							
13	D013	4	0.324	16.0	35.5	46.1	Chrysotile 1.5	Chrysotile 2.4
Location:	Concrete Block Filler- Space 312							
14	D014	4	0.387	13.2	27.9	58.8	Chrysotile 0.3	Chrysotile Trace
Location:	Concrete Block Filler- Space 112							
15	D015	5	---	---	---	---	NAD	NA
Location:	Terrazzo Flooring - Space 323 - Hall							
16	D016	5	---	---	---	---	NAD	NA
Location:	Terrazzo Flooring - Space 126 - Hall							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results

13001E; Yonkers PS; Robert C. Dodson School (Report Amended 10/31/2013)

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
17	D017	6	---	---	---	---	NAD	NA
Location:	4" Ceramic Glue - Space 321							
18	D018	6	---	---	---	---	Chrysotile <0.25	NA
Location:	4" Ceramic Glue - Space 320							
19	D019	6	---	---	---	---	NAD	NA
Location:	4" Ceramic Grout - Space 320							
20	D020	6	---	---	---	---	NAD	NA
Location:	4" Ceramic Grout - Space 321							
21	D021	7	---	---	---	---	NAD	NA
Location:	1" Ceramic Grout - Space 320							
22	D022	7	---	---	---	---	NAD	NA
Location:	1" Ceramic Grout - Space 321							
23	D023	8	---	---	---	---	NAD	NA
Location:	Mortar Patch - White - Space 308							
24	D024	8	---	---	---	---	NAD	NA
Location:	Mortar Patch - White - Space 308							
25	D025	8	---	---	---	---	NAD	NA
Location:	Mortar Patch - White - Space 307							
26	D026	9	---	---	---	---	NAD	NA
Location:	Gypsum Deck - Space C323							
27	D027	9	---	---	---	---	NAD	NA
Location:	Gypsum Deck - Space C323							
28	D028	10	0.258	96.9	0.8	2.3	NAD	NAD
Location:	Roof Tar - Space C323							
29	D029	10	0.210	93.8	3.3	2.9	NAD	NAD
Location:	Roof Tar - Space C323							
30	D030	11	0.363	57.6	27.8	14.6	NAD	NAD
Location:	Roofing Paper - Space C323							
31	D031	11	0.363	51.5	30.0	18.5	NAD	NAD
Location:	Roofing Paper - Space C323							
32	D032	12	---	---	---	---	NAD	NA
Location:	Roof Drain Insul. - Space C323							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results
13001E; Yonkers PS; Robert C. Dodson School (Report Amended 10/31/2013)

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
33	D033	12	—	—	—	—	NAD	NA
Location:	Roof Drain Insul. - Space C323							
34	D034	12	—	—	—	—	NAD	NA
Location:	Roof Drain Insul. - Space C323							
35	D035	13	—	—	—	—	NAD	NA
Location:	Gypsum Wallboard - Stairwell C124A							
36	D036	13	—	—	—	—	NAD	NA
Location:	Gypsum Wallboard - Stairwell C218A							
37	D037	14	—	—	—	—	NAD	NA
Location:	Joint Compound - Stairwell C303A							
38	D038	14	—	—	—	—	NAD	NA
Location:	Joint Compound - Stairwell C303A							
39	D039	15	0.238	53.8	11.8	34.5	NAD	NAD
Location:	Carpet Mastic - Yellow - Space 204 "Physically Inseparable Layers In Sample - Sample Composited For Analysis"							
40	D040	15	0.270	57.0	6.7	36.3	NAD	NAD
Location:	Carpet Mastic - Yellow - Space 204 "Physically Inseparable Layers In Sample - Sample Composited For Analysis"							
41	D041	16	—	—	—	—	NAD	NA
Location:	Cement Decking - Space 224							
42	D042	16	—	—	—	—	NAD	NA
Location:	Cement Decking - Space 224							
43	D043	16	—	—	—	—	NAD	NA
Location:	Cement Decking - Space 224							
44	D044	17	0.190	88.9	1.6	9.5	NAD	NAD
Location:	F.G. Pipe Jacket Mastic - Space 218							
45	D045	17	0.379	94.5	0.5	5.0	NAD	NAD
Location:	F.G. Pipe Jacket Mastic - Space 217							
46	D046	17	0.174	89.1	3.4	7.5	NAD	NAD
Location:	F.G. Pipe Insul. Jacket (Paper / Foil) - Space							
47	D047	17	0.269	88.5	1.5	10.0	NAD	NAD
Location:	F.G. Pipe Insul. Jacket (Paper / Foil) - Space 215							
48	D048	17	0.187	78.6	2.7	18.7	NAD	NAD
Location:	F.G. Pipe Insul. Jacket (Paper / Foil) - Space 222							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results
13001E; Yonkers PS; Robert C. Dodson School (Report Amended 10/31/2013)

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
49	D049	18	----	----	----	----	NAD	NA
Location: F.G. Pipe Insul. Jacket (Cloth) - Space 218								
50	D050	18	----	----	----	----	NAD	NA
Location: F.G. Pipe Insul. Jacket (Cloth) - Space 219								
51	D051	18	----	----	----	----	NAD	NA
Location: F.G. Pipe Insul. Jacket (Cloth) - Space 223								
52	D052	19	----	----	----	----	NAD	NA
Location: F.G. Pipe Insul. - Foil - New - Space 216								
53	D053	19	----	----	----	----	NAD	NA
Location: F.G. Pipe Insul. - Foil - New - Space 201								
54	D054	19	----	----	----	----	NAD	NA
Location: F.G. Pipe Insul. - Foil - New - Space 201								
55	D055	20	0.294	66.7	6.5	19.7	Chrysotile 7.2	NA
Location: Sink Mastic - Black - Space 207								
56	D056	20	0.204	71.1	6.4	22.5	NA/PS	NA
Location: Sink Mastic - Black - Space 112								
57	D057	21	----	----	----	----	NAD	NA
Location: Countertop - Space 216								
58	D058	21	----	----	----	----	NAD	NA
Location: Countertop - Space 131								
59	D059	22	----	----	----	----	NAD	NA
Location: Sink - Space 216								
60	D060	22	----	----	----	----	NAD	NA
Location: Sink - Space 131								
61	D061	23	0.272	53.3	7.7	24.8	Chrysotile 14.2	NA
Location: Countertop Mastic- Space 216								
62	D062	23	0.330	52.4	5.8	41.8	NA/PS	NA
Location: Countertop Mastic- Space 216								
63	D063	24	0.374	28.1	44.9	27.0	NAD	NAD
Location: Countertop Caulk- Space 216								
64	D064	24	0.265	32.8	47.9	19.2	NAD	NAD
Location: Countertop Caulk- Space 216								

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results
13001E; Yonkers PS; Robert C. Dodson School (Report Amended 10/31/2013)

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
65	D065	25	0.185	52.4	4.3	43.2	NAD	NAD
Location:	F.G. Pipe Jacket Mastic Yellow - Space 201							
66	D066	25	0.152	32.9	3.9	63.2	NAD	NAD
Location:	F.G. Pipe Jacket Mastic Yellow - Space 201							
67	D067	26	---	---	---	---	NAD	NA
Location:	Fire Brick - Kiln - Space 120A							
68	D068	26	---	---	---	---	NAD	NA
Location:	Fire Brick - Kiln - Space 120A							
69	D069	26	---	---	---	---	NAD	NA
Location:	Fire Brick - Kiln - Space 120A							
70	D070	27	---	---	---	---	NAD	NA
Location:	Gypsum Wallboard - Beige -Space 120							
71	D071	27	---	---	---	---	NAD	NA
Location:	Gypsum Wallboard - Beige -Space 120A							
72	D072	27	---	---	---	---	NAD	NA
Location:	Joint Compound For Beige SR - Space 120							
73	D073	27	---	---	---	---	NAD	NA
Location:	Joint Compound For Beige SR - Space 120A							
74	D074	28	0.236	37.3	60.6	2.1	NAD	NAD
Location:	Cove Base Mastic - White - Space 120B							
75	D075	28	0.442	22.2	51.4	26.5	NAD	NAD
Location:	Cove Base Mastic - White - Space 113A							
76	D076	28	0.222	53.6	6.3	40.1	NAD	NAD
Location:	Cove Base - 6" - Brown - Space 113A							
77	D077	28	0.196	36.7	62.8	0.5	NAD	NAD
Location:	Cove Base - 6" - Brown - Space 120							
78	D078	29	0.345	18.0	61.2	20.9	NAD	NAD
Location:	1x1 Floor Tile - Off White - Space 108							
79	D079	29	0.324	17.6	66.7	15.7	NAD	NAD
Location:	1x1 Floor Tile - Off White - Space 113A							

See Reporting notes on last page

Client Name: Eisenbach & Ruhnke Engineering, P.C.

Table I
Summary of Bulk Asbestos Analysis Results

13001E; Yonkers PS; Robert C. Dodson School (Report Amended 10/31/2013)

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM

Analyzed by: Marik Peysakhov; Date Analyzed 10/25/2013

**Quantitative Analysis (Semi/Full); Bulk Asbestos Analysis - PLM by EPA 600/M4-82-020 per 40 CFR or ELAP 198.1 for New York friable samples or ELAP 198.6 for New York NOB samples; TEM (Semi/Full) by EPA 600/R-93/116 (not covered by NVLAP Bulk accreditation) or ELAP 198.4; for New York samples; NAD = no asbestos detected during a quantitative analysis; NA = not analyzed; Trace = <1%; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only; Qualitative Analysis: Asbestos analysis results of "Present" or "NVA = No Visible Asbestos" represents results for Qualitative PLM or TEM Analysis only (no accreditation coverage available from any regulatory agency for qualitative analyses): AIHA Lab # 102843, NVLAP Lab Code 200546-0, NYSDOH ELAP Lab ID#11480.

Warning Note: PLM limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris for which PLM evaluation is recommended (i.e. soils and other heterogenous materials).

Reviewed By:

EISENBACH & RUHNKE ENGINEERING, P.C.
291 GENESEE STREET, UTICA, NEW YORK 13501
315·735·1916 · FAX 315·735·6365 · E-MAIL info@ereng.com

BULK SAMPLE LOG
ASBESTOS
Log No: ____of____

21310 3718

CLIENT: Yonkers PS	ANALYSIS: ☐ PLM Only ☐ TEM Only ☒ PLM/TEM as required by ELAP ☐ Other _____
PROJECT NAME/LOCATION: Robert C. Dodson School	
SAMPLES COLLECTED BY: Matt Inman	
NYS DEPT OF LABOR CERTIFICATE NO. AH97-21978	TURNAROUND TIME: ☐ RUSH ☐ 12 Hour ☐ 24 HOUR ☒ 48 Hour ☐ 72 Hour ☐ Other_____
DATE SAMPLED: 10/21/13 PROJECT#: 13001E	

NOTES:

SAMPLE NUMBER	HOMO ID #	MATERIAL SAMPLED	LOCATION	ANALYZE ONLY IF SAMPLE TO THE LEFT IS NEGATIVE BY PLM/TEM
D001		1X1 FT MASTIC Black	SPACE 302	D002 - D004
D002		↓ ↓ ↓	208	D003, D004
D003		1X1 FT Beige	302	D004
D004		↓ ↓	208	
D005		Door Glaze	SPACE 302	D006
D006		↓ ↓	202	
D007		Window Glaze - Interior	SPACE 301	D008
D008		↓ ↓ ↓	STAIRWELL C103A	
D009		CONCRETE BLOCK	SPACE ~~302~~ 307	D010 - D014
D010		↓ ↓	112	D011 - D014
D011		CONCRETE BLOCK MORTAR	SPACE 312	D012 - D014
D012		↓ ↓ ↓	112	D013, D014
D013		CONCRETE BLOCK FILLER	SPACE 312	D014
D014		↓ ↓ ↓	112	
D015		Terrazzo flooring	SPACE 323 Hall	D016
D016		↓ ↓	126 ↓	
D017		4" ceramic glue	SPACE 321	D018 - D020
D018		↓ ↓	320	D019, D020
D019		4" ceramic grout	320	D020

	PRINTED NAME	SIGNATURE	COMPANY	DATE	# OF SAMPLES
Remitted by:	Matt Inman		E&R	10/21/13	19
Received by:				10/23/13	1224

PLEASE EMAIL RESULTS TO @ ATTN:

PLEASE FAX RESULTS TO (315) 735 - 6365 ATTN: Matt

EISENBACH & RUHNKE ENGINEERING, P.C.
291 GENESEE STREET, UTICA, NEW YORK 13501
315·735·1916 · FAX 315·735·6365 · E-MAIL info@ereng.com

BULK SAMPLE LOG
ASBESTOS
Log No: ____of____

CLIENT: Yonkers PS
PROJECT NAME/LOCATION: Robert C. Dodson
SAMPLES COLLECTED BY: Matt Inman
NYS DEPT OF LABOR CERTIFICATE NO. AH97-21978
DATE SAMPLED: 10/21/13 PROJECT#: 13001E

ANALYSIS: ☐ PLM Only ☐ TEM Only ☒ PLM/TEM as required by ELAP ☐ Other _____

TURNAROUND TIME: ☐ **RUSH** ☐ 12 Hour ☐ 24 HOUR ☒ 48 Hour ☐ 72 Hour ☐ Other_____

NOTES:

213103718

SAMPLE NUMBER	HOMO ID #	MATERIAL SAMPLED	LOCATION	ANALYZE ONLY IF SAMPLE TO THE LEFT IS NEGATIVE BY PLM/TEM
D020		4" ceramic grout	SPACE 320 1	
D021		1" ceramic grout	SPACE 320	D022
D022		↓ ↓ ↓	↓ 321	
D023		MORTAR PATCH - white	SPACE 308	D024, 025
D024		↓ ↓ ↓	308	D025
D025		↓ ↓ ↓	↓ 307	
D026		Gypsum Deck	SPACE C323	D027
D027		↓ ↓	↓ ↓	
D028		Roof tar	↓ ↓	D029
D029		↓ ↓	↓ ↓	
D030		Roofing paper	↓ ↓	D031
D031		↓ ↓	↓ ↓	
D032		Roof Drain insul.	↓ ↓	D033, 034
D033		↓ ↓ ↓	↓ ↓	D034
D034		↓ ↓ ↓	↓ ↓	
D035		Gypsum Wallboard	Stairwell C124A	D036-D038
D036		↓ ↓	C218A	D037, D038
D037		Joint Compound	C303A	D038
D038		↓ ↓	↓ ↓	

	PRINTED NAME	SIGNATURE	COMPANY	DATE	# OF SAMPLES
Remitted by:	Matt Inman		E&R	10/21/13	19
Received by:				10/23/13 1224	

PLEASE EMAIL RESULTS TO @ ATTN:

PLEASE FAX RESULTS TO (315) 735-6365 ATTN: Matt

EISENBACH & RUHNKE ENGINEERING, P.C.
291 GENESEE STREET, UTICA, NEW YORK 13501
315·735·1916 · FAX 315·735·6365 · E-MAIL info@ereng.com

BULK SAMPLE LOG
ASBESTOS
Log No: ____of____

CLIENT: Yonkers PSD 213103718

PROJECT NAME/LOCATION: Robert C Dodson School

SAMPLES COLLECTED BY: Matt Inman

NYS DEPT OF LABOR CERTIFICATE NO. AH197-21978

DATE SAMPLED: 10/21/13 PROJECT#: 13001E

ANALYSIS: ☐ PLM Only ☐ TEM Only
☒ PLM/TEM as required by ELAP
☐ Other _____

TURNAROUND TIME:
☐ **RUSH** ☐ 12 Hour ☐ 24 HOUR
☒ 48 Hour ☐ 72 Hour ☐ Other_____

NOTES: * Appears to have a black mastic mixed in. Please separate and analyze both colors

SAMPLE NUMBER	HOMO ID #	MATERIAL SAMPLED	LOCATION	ANALYZE ONLY IF SAMPLE TO THE LEFT IS NEGATIVE BY PLM/TEM
* D039		carpet mastic - yellow	SPACE 204	D040
* D040		↓ ↓ ↓	↓ ↓	
D041		Cement Decking	SPACE C224	D042, 043
D042		↓ ↓	↓ ↓	D043
D043		↓ ↓	↓ ↓	
D044		F.G. Pipe Jacket Mastic	SPACE 218	D045-048
D045		↓ ↓ ↓ ↓	↓ 217	D046-D048
D046		F.G. Pipe insul. Jacket (Paper/Foil)	SPACE	D047, D048
D047		↓ ↓ ↓ ↓	↓ ↓ ↓ 215	D048
D048		[redacted] ↓ ↓	↓ ↓ ↓ 222	
D049		F.G. Pipe insul. Jacket (cloth)	SPACE 218	D051, 052
D050		↓ ↓ ↓ ↓	↓ 219	052
D051		↓ ↓ ↓ ↓	↓ 223	
D052		F.G. Pipe insul. - Foil - New	SPACE 216	D053, 054
D053		↓ ↓ ↓ ↓	↓ 201	054
D054		↓ ↓ ↓ ↓	↓ 201	
D055		Sink mastic - Black	SPACE 207	D056
D056		↓ ↓ ↓	↓ 112	
D057		Countertop	SPACE 216	D058-064

	PRINTED NAME	SIGNATURE	COMPANY	DATE	# OF SAMPLES
Remitted by:	Matt Inman	Matt	E&R	10/21/13	19
Received by:	[illegible]	[illegible]		10/23/13 1224	

PLEASE EMAIL RESULTS TO @ ATTN:

PLEASE FAX RESULTS TO (315) 735 - 6365 ATTN: Matt

EISENBACH & RUHNKE ENGINEERING, P.C.
291 GENESEE STREET, UTICA, NEW YORK 13501
315·735·1916 · FAX 315·735·6365 · E-MAIL info@ereng.com

BULK SAMPLE LOG
ASBESTOS
Log No: ____of____

CLIENT: Yonkers PS

PROJECT NAME/LOCATION: Robert F C Dodson School

SAMPLES COLLECTED BY: Matt Inman

NYS DEPT OF LABOR CERTIFICATE NO. AH97-21978

DATE SAMPLED: 10/21/13 PROJECT#: 13001E

ANALYSIS: ☐ PLM Only ☐ TEM Only ☒ PLM/TEM as required by ELAP ☐ Other _____

TURNAROUND TIME: ☐ **RUSH** ☐ 12 Hour ☐ 24 HOUR ☒ 48 Hour ☐ 72 Hour ☐ Other_____

NOTES:

213103718

SAMPLE NUMBER	HOMO ID #	MATERIAL SAMPLED	LOCATION	ANALYZE ONLY IF SAMPLE TO THE LEFT IS NEGATIVE BY PLM/TEM
DØ58		Countertop	SPACE 131	DØ59 - Ø64
DØ59		SINK	SPACE 216	DØ60
DØ60		↓	↓ 131	
DØ61		Counter top MASTIC	SPACE 216	DØ62
DØ62		↓ ↓	↓ ↓	
DØ63		Countertop CAULK	SPACE 216	DØ64
DØ64		↓ ↓	↓ ↓	
DØ65		F.G. Pipe Jacket Mastic	SPACE 201	DØ66
DØ66		↓ ↓ Yellow	↓ ↓	
DØ67		Fire Brick - Kiln	SPACE C120A	DØ68, DØ69
DØ68		↓ ↓ ↓	↓ ↓	DØ69
DØ69				
DØ70		Gypsum wallboard - Beige	SPACE 120	DØ71 - Ø73
DØ71		↓ ↓ ↓	120A	DØ72, Ø73
DØ72		Joint Compound for Beige SR	120	Ø73
DØ73		↓ ↓ ↓	120A	
DØ74		Cove base MASTIC - White	SPACE 120B	DØ75 - DØ77
DØ75		↓ ↓ ↓	113A	DØ76, DØ77
DØ76		Covebase 6" Brown	113A	DØ77

	PRINTED NAME	SIGNATURE	COMPANY	DATE	# OF SAMPLES
Remitted by:	Matt Inman		~~EER~~	10/21/13	19
Received by:				10/23/13	1234

PLEASE EMAIL RESULTS TO @ ATTN:

PLEASE FAX RESULTS TO (315) 735-6365 ATTN: Matt

EISENBACH & RUHNKE ENGINEERING, P.C.
291 GENESEE STREET, UTICA, NEW YORK 13501
315·735·1916 · FAX 315·735·6365 · E-MAIL info@ereng.com

BULK SAMPLE LOG
ASBESTOS
Log No: ____of____

CLIENT: Yonkers PS	ANALYSIS: ☐ PLM Only ☐ TEM Only
PROJECT NAME/LOCATION: Robert C Dodson School	☒ PLM/TEM as required by ELAP
SAMPLES COLLECTED BY: Matt Inman	☐ Other _____
NYS DEPT OF LABOR CERTIFICATE NO. AH97-21978	TURNAROUND TIME:
DATE SAMPLED: 10/21/13 PROJECT#: 13001E	☐ RUSH ☐ 12 Hour ☐ 24 HOUR
	☒ 48 Hour ☐ 72 Hour ☐ Other_____

NOTES:

213103718

SAMPLE NUMBER	HOMO ID #	MATERIAL SAMPLED	LOCATION	ANALYZE ONLY IF SAMPLE TO THE LEFT IS NEGATIVE BY PLM/TEM
D077		Covebase - 6" Brown	SPACE 120	
D078		1X1 Floor tile Offwhite	SPACE 108	D079
D079		↓ ↓ ↓	SPACE 113A	

	PRINTED NAME	SIGNATURE	COMPANY	DATE	# OF SAMPLES
Remitted by:	Matt Inman		E&R	10/21/13	3
Received by:				10/23/13 1224	

PLEASE EMAIL RESULTS TO @ ATTN:

PLEASE FAX RESULTS TO (315) 735 - 6365 ATTN: Matt

Eisenbach & Ruhnke
ENGINEERING, P.C.

FAX TRANSMITTAL

TO: Ameri-Sci

DATE: 10/28/13

FAX # 212-679-3114

RE:

CC:

PROJECT# 13001E

FAX #

FROM: Matt Inman

Pages (including cover) 1

COMMENTS:

Amerisci JOB # 213103718

Please hold onto samples D009-D014 per Jack Eisenbach. Do Not Destroy.

Also, sample # D014 which I asked to have analyzed is a rush turnaround TAT.

Sorry for the inconvenience

Thanks.

– Matt

AMERI SCI

AmeriSci New York
117 EAST 30TH STREET
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-9392

October 30, 2013

Eisenbach & Ruhnke Engineering, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

RE: Eisenbach & Ruhnke Engineering, P.C.
Job Number 213103856
P.O. #13001E
13001E; Yonkers PS; Robert C Dodson School (Report Amended 10/30/2013)

Dear Jack Eisenbach:

Enclosed are the results of Asbestos Analysis - Bulk Protocol of the following Eisenbach & Ruhnke Engineering, P.C. samples, received at AmeriSci on Thursday, October 24, 2013, for a 48 hour turnaround:

D080, D081, D082, D083, D084, D085, D086, D087, D088, D089, D090, D091, D092, D093, D094, D095, D096, D097, D098, D099, D100, D101, D102, D103, D104, D105, D106, D107, D108, D109, D110, D111, D112, D113, D114, D115, D116, D117

The 38 samples, placed in Zip Lock Bag, were shipped to AmeriSci via Federal Express. Eisenbach & Ruhnke Engineering, P.C. requested ELAP PLM/TEM analysis of these samples.

The results of the analyses which were performed following ELAP Protocols 198.1 PLM Friable and/or 198.6 for PLM NOB. ELAP Protocol 198.4 TEM NOB guidelines are presented within the Summary Table of this report. The presence of matrix reduction data in the Summary Table normally indicates an NOB sample. For NOB samples the individual matrix reduction, combined PLM and TEM analysis results are listed in the Summary Bulk Asbestos Analysis Results in Table I. Complete PLM results for individual samples are presented in the PLM Bulk Asbestos Report. Samples near 1% asbestos may be analyzed by EPA 400 pt ct method EPA 600/M4-82-020. This combined report relates ONLY to sample analysis expressed as percent composition by weight and percent asbestos. This report must not be used to claim product endorsement or approval by these laboratories, NVLAP, ELAP or any other associated agency. This report must not be reproduced, except in full without the written approval of the laboratory. This report may contain specific data not covered by NVLAP or ELAP accreditations respectively, if so identified in relevant footnotes.

AmeriSci appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

Paul J. Mucha
Laboratory Director

AmeriSci New York
117 EAST 30TH ST.
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-3114

PLM Bulk Asbestos Report

Eisenbach & Ruhnke Engineering, P.C.
Attn: Jack Eisenbach
291 Genesee Street

Utica, NY 13501

Date Received 10/24/13 **AmeriSci Job #** 213103856
Date Examined 10/26/13 **P.O. #**
ELAP # 11480 **Page** 1 **of** 7
RE: 13001E; Yonkers PS; Robert C Dodson School (Report Amended 10/30/2013)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D080 1	213103856-01 **Location:** Door Glaze/ Space B100	***Yes***	Trace (<0.25 % pc) [1] (EPA 400 PC) by Ivan H. Reyes on 10/26/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile <0.25 % pc **Other Material:** Non-fibrous 21.9 %			
D081 1	213103856-02 **Location:** Door Glaze/ Space B100	***Yes***	Trace (<0.25 % pc) [1] (EPA 400 PC) by Ivan H. Reyes on 10/26/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile <0.25 % pc **Other Material:** Non-fibrous 19.7 %			
D082 2	213103856-03 **Location:** Duct Pin Mastic/ Space A132	***Yes***	6 % (by NYS ELAP 198.6) by Ivan H. Reyes on 10/26/13
Analyst Description: Black, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** Chrysotile 6.0 % **Other Material:** Non-fibrous 15.1 %			
D083 2	213103856-04 **Location:** Duct Pin Mastic/ Space A132		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
D084 3	213103856-05 **Location:** Vibration Cloth- Green/ Space A132	***No***	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 10/29/13
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 95 %, Non-fibrous 5 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

13001E; Yonkers PS; Robert C Dodson School (Report Amended 10/30/2013)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D085 3	213103856-06 **Location:** Vibration Cloth- Green/ Space B0003	***No***	NAD (by NYS ELAP 198.1) by John P. Koubiadis on 10/29/13
Analyst Description: Grey, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 95 %, Non-fibrous 5 %			
D086 4	213103856-07 **Location:** Wall Coating On Conc. Block/ Space B122	***Yes***	1.8 % (EPA 400 PC) by John P. Koubiadis on 10/29/13
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 1.8 % **Other Material:** Non-fibrous 98.2 %			
D087 4	213103856-08 **Location:** Wall Coating On Conc. Block/ Space B122	***Yes***	2 % (EPA 400 PC) by John P. Koubiadis on 10/30/13
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 2.0 % **Other Material:** Non-fibrous 98 %			
D088 4	213103856-09 **Location:** Wall Coating On Conc. Block/ Space B122	***Yes***	1.5 % (EPA 400 PC) by John P. Koubiadis on 10/30/13
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 1.5 % **Other Material:** Non-fibrous 98.5 %			
D089 5	213103856-10 **Location:** Covebase- 4" Yellow Mastic/ Space A130	***No***	NAD (by NYS ELAP 198.6) by Ivan H. Reyes on 10/26/13
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.7 %			
D090 5	213103856-11 **Location:** Covebase- 4" Yellow Mastic/ Space A130	***No***	NAD (by NYS ELAP 198.6) by Ivan H. Reyes on 10/26/13
Analyst Description: Tan, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 6 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

13001E; Yonkers PS; Robert C Dodson School (Report Amended 10/30/2013)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D091 6	213103856-12 **Location:** Covebase- 4" Black/ Space A130	***No***	NAD (by NYS ELAP 198.6) by Ivan H. Reyes on 10/26/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 29.5 %			
D092 6	213103856-13 **Location:** Covebase- 4" Black/ Space A130	***No***	NAD (by NYS ELAP 198.6) by Ivan H. Reyes on 10/26/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 31.8 %			
D093 7	213103856-14 **Location:** 1X1 Floor Tile- Maroon/ Space A155B	***No***	NAD (by NYS ELAP 198.6) by Ivan H. Reyes on 10/26/13
Analyst Description: Beige, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 13.8 %			
D094 7	213103856-15 **Location:** 1X1 Floor Tile- Maroon/ Space A155B	***No***	NAD (by NYS ELAP 198.6) by Ivan H. Reyes on 10/26/13
Analyst Description: Beige, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 12.8 %			
D095 8	213103856-16 **Location:** 1X1 Floor Tile- Brown/ Space A151	***No***	NAD (by NYS ELAP 198.6) by Ivan H. Reyes on 10/26/13
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 1.4 %			
D096 8	213103856-17 **Location:** 1X1 Floor Tile- Brown/ Space A157	***No***	NAD (by NYS ELAP 198.6) by Ivan H. Reyes on 10/26/13
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 2.4 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

13001E; Yonkers PS; Robert C Dodson School (Report Amended 10/30/2013)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D097 9	213103856-18 **Location:** 9X9 FT Mastic- Blk/ Space A152	***Yes***	2.2 % (by NYS ELAP 198.6) by Ivan H. Reyes on 10/26/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 2.2 % **Other Material:** Non-fibrous 16.2 %			
D098 9	213103856-19 **Location:** 9X9 FT Mastic- Blk/ Space A154		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
D099 10	213103856-20 **Location:** 9X9 FT- Yellow/ Space A152		NA
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
D100 10	213103856-21 **Location:** 9X9 FT- Yellow/ Space A154		NA
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
D101 11	213103856-22 **Location:** Mastic Puck- Block/ Space C120	***No***	NAD (by NYS ELAP 198.6) by Ivan H. Reyes on 10/26/13
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 38 %			
D102 11	213103856-23 **Location:** Mastic Puck- Block/ Space C120	***No***	NAD (by NYS ELAP 198.6) by Ivan H. Reyes on 10/26/13
Analyst Description: Brown, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 40.4 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

13001E; Yonkers PS; Robert C Dodson School (Report Amended 10/30/2013)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D103 12	213103856-24 **Location:** Duct Insul. Jacket Mastic Yellow/ Space 160A1	***No***	NAD (by NYS ELAP 198.6) by Ivan H. Reyes on 10/26/13
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass Trace, Non-fibrous 84.4 %			
D104 12	213103856-25 **Location:** Duct Insul. Jacket Mastic Yellow/ Space 160A1	***No***	NAD (by NYS ELAP 198.6) by Ivan H. Reyes on 10/26/13
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass Trace, Non-fibrous 83.9 %			
D105 13	213103856-26 **Location:** Fitting/ Space A118	***No***	NAD (by NYS ELAP 198.1) by Ivan H. Reyes on 10/26/13
Analyst Description: White/Tan, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 15 %, Fibrous glass 5 %, Non-fibrous 80 %			
D106 13	213103856-27 **Location:** Fitting/ Space A118	***No***	NAD (by NYS ELAP 198.1) by Ivan H. Reyes on 10/26/13
Analyst Description: White, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose Trace, Non-fibrous 100 %			
D107 13	213103856-28 **Location:** Fitting/ Space A118	***No***	NAD (by NYS ELAP 198.1) by Ivan H. Reyes on 10/26/13
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose Trace, Non-fibrous 100 %			
D108 14	213103856-29 **Location:** Gypsum Wallboard/ Space A118	***No***	NAD (by NYS ELAP 198.1) by Ivan H. Reyes on 10/26/13
Analyst Description: OffWhite/Tan, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 18 %, Fibrous glass 2 %, Non-fibrous 80 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

13001E; Yonkers PS; Robert C Dodson School (Report Amended 10/30/2013)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D109 14	213103856-30 **Location:** Gypsum Wallboard/ Space A118	***No***	NAD (by NYS ELAP 198.1) by Ivan H. Reyes on 10/26/13
Analyst Description: OffWhite/Tan, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 15 %, Fibrous glass 2 %, Non-fibrous 83 %			
D110 15	213103856-31 **Location:** Joint Compound/ Space A118	***No***	NAD (by NYS ELAP 198.1) by Ivan H. Reyes on 10/26/13
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose Trace, Non-fibrous 100 %			
D111 15	213103856-32 **Location:** Joint Compound/ Space A118	***No***	NAD (by NYS ELAP 198.1) by Ivan H. Reyes on 10/26/13
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose Trace, Non-fibrous 100 %			
D112 16	213103856-33 **Location:** Interior Brick/ Space A118	***No***	NAD (by NYS ELAP 198.1) by Ivan H. Reyes on 10/26/13
Analyst Description: Tan, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D113 16	213103856-34 **Location:** Interior Brick/ Space A118	***No***	NAD (by NYS ELAP 198.1) by Ivan H. Reyes on 10/26/13
Analyst Description: Tan, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D114 16	213103856-35 **Location:** Interior Brick/ Space A118	***No***	NAD (by NYS ELAP 198.1) by Ivan H. Reyes on 10/26/13
Analyst Description: Tan, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

13001E; Yonkers PS; Robert C Dodson School (Report Amended 10/30/2013)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D115 17	213103856-36 **Location:** Brick Mortar/ Space A118	***No***	NAD (by NYS ELAP 198.1) by Ivan H. Reyes on 10/26/13
Analyst Description: Brown, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D116 17	213103856-37 **Location:** Brick Mortar/ Space A118	***No***	NAD (by NYS ELAP 198.1) by Ivan H. Reyes on 10/26/13
Analyst Description: Brown, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
D117 17	213103856-38 **Location:** Brick Mortar/ Space A118	***No***	NAD (by NYS ELAP 198.1) by Ivan H. Reyes on 10/26/13
Analyst Description: Brown, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

Reporting Notes:

(1) Sample prepared for analysis by ELAP 198.6 method

Analyzed by: Ivan H. Reyes

*NAD/NSD =no asbestos detected; NA =not analyzed; NA/PS=not analyzed/positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200546-0), ELAP PLM Method 198.1 for NY friable samples, which includes the identification and quantitation of vermiculite or 198.6 for NOB samples or EPA 400 pt ct by EPA 600/M4-82-020 (NY ELAP Lab ID11480); Note:PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non asbestos-containing in NY State (also see EPA Advisory for floor tile, FR 59,146,38970,8/1/94) National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the lab.This PLM report relates ONLY to the items tested. AIHA Lab # 102843, RI Cert#AAL-094, CT Cert#PH-0186, Mass Cert#AA000054.

Reviewed By: _____ _____END OF REPORT_____

Client Name: Eisenbach & Ruhnke Engineering, P.C.

Table I
Summary of Bulk Asbestos Analysis Results
13001E; Yonkers PS; Robert C Dodson School (Report Amended 10/30/2013)

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	D080	1	0.215	53.0	25.1	19.7	Chrysotile <0.25	Chrysotile 2.2
Location:	Door Glaze/ Space B100							
02	D081	1	0.238	53.8	26.5	19.7	Chrysotile <0.25	NA/PS
Location:	Door Glaze/ Space B100							
03	D082	2	0.185	37.8	41.1	15.1	Chrysotile 6.0	NA
Location:	Duct Pin Mastic/ Space A132							
04	D083	2	0.223	48.0	36.3	15.7	NA/PS	NA
Location:	Duct Pin Mastic/ Space A132							
05	D084	3	----	----	----	----	NAD	NA
Location:	Vibration Cloth- Green/ Space A132							
06	D085	3	----	----	----	----	NAD	NA
Location:	Vibration Cloth- Green/ Space B0003							
07	D086	4	----	----	----	----	Chrysotile 1.8	NA
Location:	Wall Coating On Conc. Block/ Space B122							
08	D087	4	----	----	----	----	Chrysotile 2.0	NA
Location:	Wall Coating On Conc. Block/ Space B122							
09	D088	4	----	----	----	----	Chrysotile 1.5	NA
Location:	Wall Coating On Conc. Block/ Space B122							
10	D089	5	0.145	40.7	58.6	0.7	NAD	NAD
Location:	Covebase- 4" Yellow Mastic/ Space A130							
11	D090	5	0.215	43.3	50.7	6.0	NAD	NAD
Location:	Covebase- 4" Yellow Mastic/ Space A130							
12	D091	6	0.254	49.2	21.3	29.5	NAD	NAD
Location:	Covebase- 4" Black/ Space A130							
13	D092	6	0.258	47.7	20.5	31.8	NAD	NAD
Location:	Covebase- 4" Black/ Space A130							
14	D093	7	0.326	17.2	69.0	13.8	NAD	NAD
Location:	1X1 Floor Tile- Maroon/ Space A155B							
15	D094	7	0.266	17.3	69.9	12.8	NAD	NAD
Location:	1X1 Floor Tile- Maroon/ Space A155B							
16	D095	8	0.288	18.4	80.2	1.4	NAD	NAD
Location:	1X1 Floor Tile- Brown/ Space A151							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results
13001E; Yonkers PS; Robert C Dodson School (Report Amended 10/30/2013)

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
17	D096	8	0.253	16.6	81.0	2.4	NAD	NAD
Location:	1X1 Floor Tile- Brown/ Space A157							
18	D097	9	0.125	59.2	22.4	16.2	Chrysotile 2.2	NA
Location:	9X9 FT Mastic- Blk/ Space A152							
19	D098	9	0.161	73.3	13.7	13.0	NA/PS	NA
Location:	9X9 FT Mastic- Blk/ Space A154							
20	D099	10	0.260	25.8	44.2	30.0	NA	NA
Location:	9X9 FT- Yellow/ Space A152							
21	D100	10	0.169	25.4	45.0	29.6	NA	NA
Location:	9X9 FT- Yellow/ Space A154							
22	D101	11	0.142	49.3	12.7	38.0	NAD	NAD
Location:	Mastic Puck- Block/ Space C120							
23	D102	11	0.151	51.0	8.6	40.4	NAD	NAD
Location:	Mastic Puck- Block/ Space C120							
24	D103	12	0.211	10.4	5.2	84.4	NAD	NAD
Location:	Duct Insul. Jacket Mastic Yellow/ Space 160A1							
25	D104	12	0.249	14.1	2.0	83.9	NAD	NAD
Location:	Duct Insul. Jacket Mastic Yellow/ Space 160A1							
26	D105	13	---	---	---	---	NAD	NA
Location:	Fitting/ Space A118							
27	D106	13	---	---	---	---	NAD	NA
Location:	Fitting/ Space A118							
28	D107	13	---	---	---	---	NAD	NA
Location:	Fitting/ Space A118							
29	D108	14	---	---	---	---	NAD	NA
Location:	Gypsum Wallboard/ Space A118							
30	D109	14	---	---	---	---	NAD	NA
Location:	Gypsum Wallboard/ Space A118							
31	D110	15	---	---	---	---	NAD	NA
Location:	Joint Compound/ Space A118							
32	D111	15	---	---	---	---	NAD	NA
Location:	Joint Compound/ Space A118							

See Reporting notes on last page

Client Name: Eisenbach & Ruhnke Engineering, P.C.

Table I
Summary of Bulk Asbestos Analysis Results

13001E; Yonkers PS; Robert C Dodson School (Report Amended 10/30/2013)

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
33	D112	16	----	----	----	----	NAD	NA
Location:	Interior Brick/ Space A118							
34	D113	16	----	----	----	----	NAD	NA
Location:	Interior Brick/ Space A118							
35	D114	16	----	----	----	----	NAD	NA
Location:	Interior Brick/ Space A118							
36	D115	17	----	----	----	----	NAD	NA
Location:	Brick Mortar/ Space A118							
37	D116	17	----	----	----	----	NAD	NA
Location:	Brick Mortar/ Space A118							
38	D117	17	----	----	----	----	NAD	NA
Location:	Brick Mortar/ Space A118							

Analyzed by: Aleksandr Barengolts; Date Analyzed 10/26/2013

**Quantitative Analysis (Semi/Full); Bulk Asbestos Analysis - PLM by EPA 600/M4-82-020 per 40 CFR or ELAP 198.1 for New York friable samples or ELAP 198.6 for New York NOB samples; TEM (Semi/Full) by EPA 600/R-93/116 (not covered by NVLAP Bulk accreditation) or ELAP 198.4; for New York samples; NAD = no asbestos detected during a quantitative analysis; NA = not analyzed; Trace = <1%; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only; Qualitative Analysis: Asbestos analysis results of "Present" or "NVA = No Visible Asbestos" represents results for Qualitative PLM or TEM Analysis only (no accreditation coverage available from any regulatory agency for qualitative analyses): AIHA Lab # 102843, NVLAP Lab Code 200546-0, NYSDOH ELAP Lab ID#11480.

Warning Note: PLM limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris for which PLM evaluation is recommended (i.e. soils and other heterogenous materials).

Reviewed By:

EISENBACH & RUHNKE ENGINEERING, P.C.
291 GENESEE STREET, UTICA, NEW YORK 13501
315·735·1916 · FAX 315·735·6365 · E-MAIL info@ereng.com

BULK SAMPLE LOG
ASBESTOS
Log No: ____of____

CLIENT: Yonkers PS

PROJECT NAME/LOCATION: Re: Robert C Dodson School

SAMPLES COLLECTED BY: Matt Inman

NYS DEPT OF LABOR CERTIFICATE NO. AH97-21978

DATE SAMPLED: 10/22/13

PROJECT#: 13001E

ANALYSIS: ☐ PLM Only ☐ TEM Only ☒ PLM/TEM as required by ELAP ☐ Other _____

TURNAROUND TIME: ☐ **RUSH** ☐ 12 Hour ☐ 24 HOUR ☒ 48 Hour ☐ 72 Hour ☐ Other_____

NOTES: 213103856

SAMPLE NUMBER	HOMO ID #	MATERIAL SAMPLED	LOCATION	ANALYZE ONLY IF SAMPLE TO THE LEFT IS NEGATIVE BY PLM/TEM
D080		Door Glaze	SPACE B100	D081
D081		↓ ↓	↓ ↓	
D082		Duct Pin Mastic	SPACE A132	D083-089
D083		↓ ↓ ↓	↓ B0003	D084-089
D084		Duct Insul.	SPACE A150	D085, 086
D085		↓ ↓	↓ ↓	D086
D086				D088, D089
D087		Duct Jacket		
D088		↓ ↓ ↓	↓ ↓	D089
D089				
D084		Vibration cloth - green	SPACE A132	D085
D085		↓ ↓ ↓	↓ B0003	
D086		Wall coating on conc block	SPACE B122	D087, D088
D087		↓ ↓ ↓	↓ ↓	D088
D088				
D089		Covebase - 4" yellow mastic	SPACE A130	D090-092
D090		↓ ↓ ↓	↓ ↓	091, 092
D091		Covebase - 4" Black		092
D092		↓ ↓ ↓	↓ ↓	

	PRINTED NAME	SIGNATURE	COMPANY	DATE	# OF SAMPLES
Remitted by:	Matt Inman		E&R	10/22/13	13
Received by:				10/24/13	1104

PLEASE EMAIL RESULTS TO @ **ATTN:**

PLEASE FAX RESULTS TO (315) 735 - 6365 **ATTN:** Matt

EISENBACH & RUHNKE ENGINEERING, P.C.
291 GENESEE STREET, UTICA, NEW YORK 13501
315·735·1916 · FAX 315·735·6365 · E-MAIL info@ereng.com

BULK SAMPLE LOG
ASBESTOS
Log No: ____of____

CLIENT: Yonkers PS
PROJECT NAME/LOCATION: Robert C Dodson School
SAMPLES COLLECTED BY: Matt Inman
NYS DEPT OF LABOR CERTIFICATE NO. AH97-21978
DATE SAMPLED: 10/22/13 PROJECT#: 13001E

ANALYSIS: ☐ PLM Only ☐ TEM Only ☒ PLM/TEM as required by ELAP ☐ Other _____

TURNAROUND TIME: ☐ **RUSH** ☐ 12 Hour ☐ 24 HOUR ☒ 48 Hour ☐ 72 Hour ☐ Other_____

NOTES:

2131038556

SAMPLE NUMBER	HOMO ID #	MATERIAL SAMPLED	LOCATION	ANALYZE ONLY IF SAMPLE TO THE LEFT IS NEGATIVE BY PLM/TEM
D093		1X1 Floor tile - Maroon	SPACE A1SS13	D094
D094		↓ ↓ ↓	↓ ↓	
D095		1X1 Floor tile - Brown	SPACE A151	D096
D096		↓ ↓ ↓	↓ A157	
D097		9X9 FT MASTIC - BLK	SPACE A152	D098 - D100
D098		↓ ↓ ↓	A154	D099, D100
D099		9X9 FT - Yellow	A152	D100
D100		↓ ↓ ↓	A154	
D101		Mastic Puck - Black	SPACE C120	D102
D102		↓ ↓ ↓	↓ ↓	
D103		Duct Insul. Jacket Mastic	SPACE 160A1	D104
D104		↓ ↓ ↓ yellow	↓ ↓	
D105		~~Roof Mastic~~ Fitting	SPACE A118	D106, 107
D106		Fitting		D107
D107		↓ ↓	↓ ↓	
D108		Gypsum Wallboard	SPACE A118	D109 - D111
D109		↓ ↓	↓ ↓	D110, D111
D110		Joint Compound	↓ ↓	D111
D111		↓ ↓		

	PRINTED NAME	SIGNATURE	COMPANY	DATE	# OF SAMPLES
Remitted by:	Matt Inman		E+R	10/22/13	19
Received by:				10/24/13	

PLEASE EMAIL RESULTS TO @ **ATTN:**

PLEASE FAX RESULTS TO (315) 735-6365 **ATTN:** Matt

EISENBACH & RUHNKE ENGINEERING, P.C.
291 GENESEE STREET, UTICA, NEW YORK 13501
315·735·1916 · FAX 315·735·6365 · E-MAIL info@ereng.com

BULK SAMPLE LOG
ASBESTOS
Log No: ____of____

CLIENT: Yonkers PS	ANALYSIS: ☐ PLM Only ☐ TEM Only
PROJECT NAME/LOCATION: Robert C Dodson School	☒ PLM/TEM as required by ELAP
SAMPLES COLLECTED BY: Matt Inman	☐ Other _____
NYS DEPT OF LABOR CERTIFICATE NO. AH97-21978	TURNAROUND TIME:
DATE SAMPLED: 10/22/13 PROJECT#: 13001E	☐ RUSH ☐ 12 Hour ☐ 24 HOUR
	☒ 48 Hour ☐ 72 Hour ☐ Other_____

NOTES:

2131038566

SAMPLE NUMBER	HOMO ID #	MATERIAL SAMPLED	LOCATION	ANALYZE ONLY IF SAMPLE TO THE LEFT IS NEGATIVE BY PLM/TEM
D112		Incinerator Brick	SPACE A118	D113 - D117
D113		↓ ↓	↓ ↓	D114 - D117
D114		↓ ↓	↓ ↓	D115 - D117
D115		Brick Mortar	↓ ↓	D116, D117
D116		↓ ↓	↓ ↓	D117
D117		↓ ↓	↓ ↓	

	PRINTED NAME	SIGNATURE	COMPANY	DATE	# OF SAMPLES
Remitted by:	Matt Inman	Matt	ETR	10/22/13	6
Received by:				10/24/13 1104	

PLEASE EMAIL RESULTS TO @ ATTN:

PLEASE FAX RESULTS TO (315) 735 - 6365 ATTN: Matt

Eisenbach & Ruhnke
ENGINEERING, P.C.

FAX TRANSMITTAL

TO: Ameri-Sci

DATE: 10/29/13

FAX # 212.679.3114

RE:

CC:

PROJECT# 1300E

FAX #

FROM: Angela Correll

Pages (including cover) 1

COMMENTS:

Ameri Sci Job #213103~~778~~856

Please analyze the following Samples:

D087
D088

Angela Correll

Eisenbach & Ruhnke
ENGINEERING, P.C.

FAX TRANSMITTAL

TO: Ameri-Sci
DATE: 10/28/13
FAX # 212-679-3114
RE:
CC:
PROJECT# 13001[redacted]E
FAX #
FROM: Matt Inman
Pages (including cover) 1

COMMENTS:

Amerisci Job # 21310 3856
21310 3718

Please analyze sample D014 - conc Block Filter.

Also, Please [redacted] analyze samples D084 - D088 utilizing the positive stops on the chain of custody. when I crossed out a block of samples, I neglected to rewrite the positive stops above so samples 84-88 were skipped inadvertently.

Thank you,

Matthew Inman

291 Genesee Street • Utica, New York 13501 • Phone: 315.735.1916 • Fax: 315.735.6366 • Web: www.eisenbachandruhnke.com

AmeriSci New York
117 EAST 30TH STREET
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-9392

October 31, 2013

Eisenbach & Ruhnke Engineering, P.C.
Attn: Jack Eisenbach
291 Genesee Street
Utica, NY 13501

RE: Eisenbach & Ruhnke Engineering, P.C.
Job Number 213104716
P.O. #13001E
13001E; Yonkers PS; Robert R Dodsen School

Dear Jack Eisenbach:

Enclosed are the results of Asbestos Analysis - Bulk Protocol of the following Eisenbach & Ruhnke Engineering, P.C. samples, received at AmeriSci on Thursday, October 31, 2013, for a rush turnaround:

001, 002, 003, 004, 005, 006, 007, 008, 009, 010

The 10 samples, placed in Zip Lock Bag, were shipped to AmeriSci via Federal Express. Eisenbach & Ruhnke Engineering, P.C. requested ELAP PLM analysis of these samples.

The results of the analyses which were performed under ELAP guidelines are presented within the attached sections of this report. This report relates ONLY to PLM analysis portions of ELAP 198.1, 198.6 or 198.4 expressed as percent by weight and percent asbestos. Samples near 1% asbestos may be analyzed by EPA 400 pt ct method EPA 600/M4-82-020. Lack of matrix reduction data normally indicates a friable sample. The client is responsible for requesting TEM evaluation of sample inert residue if required by ELAP 198.6 or 198.4. This report must not be used to claim product endorsement or approval by these laboratories, NVLAP, ELAP or any other associated certifying agency. This report must not be reproduced, except in full without the written approval of the laboratory. This report may contain specific data not covered by NVLAP or ELAP accreditations respectively, if so identified in relevant footnotes.

AmeriSci appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

Paul J. Mucha
Laboratory Director

AMERI SCI

AmeriSci New York
117 EAST 30TH ST.
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-3114

PLM Bulk Asbestos Report

Eisenbach & Ruhnke Engineering, P.C.
Attn: Jack Eisenbach
291 Genesee Street

Utica, NY 13501

Date Received 10/31/13 **AmeriSci Job #** 213104716
Date Examined 10/31/13 **P.O. #**
ELAP # 11480 **Page** 1 **of** 3
RE: 13001E; Yonkers PS; Robert R Dodsen School

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
001	213104716-01	*No*	NAD (by NYS ELAP 198.1) by Tara L. Fisher on 10/31/13
	Location: Conc Block Filer - Room B101		
	Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
002	213104716-02	*No*	NAD (by NYS ELAP 198.1) by Tara L. Fisher on 10/31/13
	Location: Conc Block Filer - Main Office Hall		
	Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
003	213104716-03	*No*	NAD (by NYS ELAP 198.1) by Tara L. Fisher on 10/31/13
	Location: Conc Block Filer - Rm 106		
	Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
004	213104716-04	*No*	NAD (by NYS ELAP 198.1) by Tara L. Fisher on 10/31/13
	Location: Conc Block Filer - Library		
	Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		
005	213104716-05	*No*	NAD (by NYS ELAP 198.1) by Tara L. Fisher on 10/31/13
	Location: Conc Block Filer - Rm 213		
	Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material		
	Asbestos Types:		
	Other Material: Non-fibrous 100 %		

See Reporting notes on last page

PLM Bulk Asbestos Report

13001E; Yonkers PS; Robert R Dodsen School

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
006	213104716-06	***No***	NAD (by NYS ELAP 198.1) by Tara L. Fisher on 10/31/13
Location: Conc Block Filer - Rm 315			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
007	213104716-07	***No***	NAD (by NYS ELAP 198.1) by Tara L. Fisher on 10/31/13
Location: Conc Block Filer - Gym			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
008	213104716-08	***No***	NAD (by NYS ELAP 198.1) by Tara L. Fisher on 10/31/13
Location: Conc Block Filer - Rm 145			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
009	213104716-09	***No***	NAD (by NYS ELAP 198.1) by Tara L. Fisher on 10/31/13
Location: Conc Block Filer - Rm A114			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
010	213104716-10	***Yes***	Trace (<0.25 % pc) (EPA 400 PC) by Tara L. Fisher on 10/31/13
Location: Conc Block Filer - Rm A102			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile <0.25 % pc **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

13001E; Yonkers PS; Robert R Dodsen School

Reporting Notes:

Analyzed by: Tara L. Fisher

*NAD/NSD =no asbestos detected; NA =not analyzed; NA/PS=not analyzed/positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200546-0), ELAP PLM Method 198.1 for NY friable samples, which includes the identification and quantitation of vermiculite or 198.6 for NOB samples or EPA 400 pt ct by EPA 600/M4-82-020 (NY ELAP Lab ID11480); Note:PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non asbestos-containing in NY State (also see EPA Advisory for floor tile, FR 59,146,38970,8/1/94) National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the lab.This PLM report relates ONLY to the items tested. AIHA Lab # 102843, RI Cert#AAL-094, CT Cert#PH-0186, Mass Cert#AA000054.

Reviewed By:_____

END OF REPORT

EISENBACH & RUHNKE ENGINEERING, P.C.
291 GENESEE STREET, UTICA, NEW YORK 13501
315·735·1916 · FAX 315·735·6365 · E-MAIL info@ereng.com

BULK SAMPLE LOG
ASBESTOS
Log No: ____of____

CLIENT: Yonkers PS	ANALYSIS: ☐ PLM Only ☐ TEM Only ☒ PLM/TEM as required by ELAP ☐ Other _____
PROJECT NAME/LOCATION: Robert R. Dodson School	
SAMPLES COLLECTED BY: Matt Inman	
NYS DEPT OF LABOR CERTIFICATE NO. AM97 - 21978	TURNAROUND TIME: ☐ **RUSH** ☐ 12 Hour ☐ 24 HOUR
DATE SAMPLED: 10/29/13 / PROJECT#: 13001D	☒ 48 Hour ☐ 72 Hour ☐ Other_____

NOTES:

213104716

SAMPLE NUMBER	HOMO ID #	MATERIAL SAMPLED	LOCATION	ANALYZE ONLY IF SAMPLE TO THE LEFT IS NEGATIVE BY PLM/TEM
001		Conc. Block Filler	Room B101	
002		↓	Main Office Hall	
003		↓	Rm 106	
004		↓	Library	
005		↓	Rm 213	
006		↓	Rm 315	
007		↓	Gym	
008		↓	Rm 145	
009		↓	Rm A114	
010		↓	Rm A102	

	PRINTED NAME	SIGNATURE	COMPANY	DATE	# OF SAMPLES
Remitted by:	Matt Inman	Matt Inman	EAR	10/30/1	10
Received by:	Shirmel Massey	Shirmel Massey	American	10/31/13 11:45	

PLEASE EMAIL RESULTS TO @ **ATTN:**

PLEASE FAX RESULTS TO (315) 735 - 6365 **ATTN:** Matt

Eisenbach & Ruhnke
ENGINEERING, P.C.

FAX TRANSMITTAL

213104716

TO: AmeriSci

DATE: 10/31/13

FAX # 212-679-[illegible] 3114

RE:

CC:

PROJECT# 13001

FAX #

FROM: Matt Inman

Pages (including cover) 1

COMMENTS:

Samples arriving today via Fed Ex are labeled 48 hour TAT and Jack Eisenbach would like them changed to Rush turnaround.

Also, please change the Job # on the CoC to Job # 13001E for your report.

Thanks

- Matt

291 Genesee Street • Utica, New York 13501 • Phone: 315.735.1916 • Fax: 315.735.6365 • Web: www.eisenbachandruhnke.com

EMSL Analytical, Inc.
307 West 38th Street, New York, NY 10018
Phone/Fax: (212) 290-0051 / (212) 290-0058
http://www.EMSL.com manhattanlab@emsl.com

EMSL Order: 031342548
CustomerID: JACK50
CustomerPO:
ProjectID:

Attn: **Matt Inman**
E&R Engineering, P.C.
291 Genesee Street
Utica, NY 13501

Phone: (315) 735-1916
Fax: (315) 735-6365
Received: 10/31/13 12:00 PM
Analysis Date: 10/31/2013
Collected: 10/29/2013

RECEIVED
NOV 08 2013
Eisenbach & Ruhnke Engineering

Project: **13001E/ ROBERT R. DODSON**

Test Report:Asbestos Analysis of Bulk Material

Test	Analyzed Date	Color	Non Asbestos Fibrous	Non Asbestos Non-Fibrous	Asbestos
Sample ID 0001 *031342548-0001*		**Description** CONC BLOCK FILLER - MAIN OFFICE HALL **Homogeneity** Heterogeneous			
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	10/31/2013	Beige			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	10/31/2013	Beige			**<1% Anthophyllite** **<1% Total**
Sample ID 0002 *031342548-0002*		**Description** CONC BLOCK FILLER - RM 106 **Homogeneity** Heterogeneous			
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	10/31/2013	White			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	10/31/2013	White			**None Detected**
Sample ID 0003 *031342548-0003*		**Description** CONC BLOCK FILLER - LIBRARY **Homogeneity** Heterogeneous			
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	10/31/2013	Green			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	10/31/2013	Green			**<1% Anthophyllite** **<1% Total**
Sample ID 0004 *031342548-0004*		**Description** CONC BLOCK FILLER - RM 213 **Homogeneity** Heterogeneous			
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	10/31/2013	White			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	11/1/2013	White			**None Detected**
Sample ID 0005 *031342548-0005*		**Description** CONC BLOCK FILLER - RM 315 **Homogeneity** Heterogeneous			
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	10/31/2013	White			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	11/1/2013	White			**None Detected**

Initial Report From 11/01/2013 00:17:03

EMSL Analytical, Inc.
307 West 38th Street, New York, NY 10018
Phone/Fax: (212) 290-0051 / (212) 290-0058
http://www.EMSL.com manhattanlab@emsl.com

EMSL Order:	031342548
CustomerID:	JACK50
CustomerPO:	
ProjectID:	

Test Report:Asbestos Analysis of Bulk Material

Test		Color	Non Asbestos Fibrous	Non-Fibrous	Asbestos
Sample ID 0006 *031342548-0006*		**Description** **Homogeneity**	CONC BLOCK FILLER - GYM Heterogeneous		
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	10/31/2013	Green			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	11/1/2013	Green			**<1% Anthophyllite** **<1% Total**
Sample ID 0007 *031342548-0007*		**Description** **Homogeneity**	CONC BLOCK FILLER - RM 145 Heterogeneous		
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	10/31/2013	White			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	11/1/2013	White			**None Detected**
Sample ID 0008 *031342548-0008*		**Description** **Homogeneity**	CONC BLOCK FILLER - RM A114 Heterogeneous		
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	10/31/2013	White /Red /Blue			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	11/1/2013	White /Red /Blue			**None Detected**
Sample ID 0009 *031342548-0009*		**Description** **Homogeneity**	CONC BLOCK FILLER - RM A102 Heterogeneous		
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	10/31/2013	Blue			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	10/31/2013	Blue			**None Detected**
Sample ID 0010 *031342548-0010*		**Description** **Homogeneity**	CONC BLOCK FILLER - RM B101 Heterogeneous		
PLM NYS 198.1 Friable					**Not Analyzed**
PLM NYS 198.6 VCM					**Not Analyzed**
PLM NYS 198.6 NOB	10/31/2013	White			**Inconclusive: None Detected**
TEM NYS 198.4 NOB	10/31/2013	White			**<1% Anthophyllite** **<1% Total**

Initial Report From 11/01/2013 00:17:03

EMSL Analytical, Inc.
307 West 38th Street, New York, NY 10018
Phone/Fax: (212) 290-0051 / (212) 290-0058
http://www.EMSL.com manhattanlab@emsl.com

EMSL Order:	031342548
CustomerID:	JACK50
CustomerPO:	
ProjectID:	

Test Report:Asbestos Analysis of Bulk Material

Test	Color	Non Asbestos Fibrous	Non-Fibrous	Asbestos

Analyst(s)
Feng Liang
Kamel Alawawda

James Hall, Laboratory Manager
or other approved signatory

NOB = Non Friable Organically Bound N/A = Not Applicable VCM = Vermiculite Containing Material

-In New York State, TEM is currently the only method that can be used to determine if NOB materials can be considered or treated as non-asbestos containing.
All samples examined for the presence of vermiculite when analyzed via NYS 198.1.
-NYS Guidelines for Vermiculite containing samples are available at http://www.wadsworth.org/labcert/elapcert/forms/VermiculiteInterimGuidance_Rev070913.pdf
EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples were received in good condition unless otherwise noted.
This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. This report may contain data that is not covered by the NVLAP accreditation.

Samples analyzed by EMSL Analytical, Inc. New York, NY NYS ELAP 11506

EISENBACH & RUHNKE ENGINEERING, P.C.
291 GENESEE STREET, UTICA, NEW YORK 13501
315·735·1916 · FAX 315·735·6365 · E-MAIL info@ereng.com

BULK SAMPLE LOG
ASBESTOS
Log No: ____of____

OB13V2548

CLIENT: Yonkers PS	ANALYSIS: ☐ PLM Only ☐ TEM Only ☒ PLM/TEM as required by ELAP ☐ Other _____
PROJECT NAME/LOCATION: Robert R. Dodson	
SAMPLES COLLECTED BY: Matt Inman	
NYS DEPT OF LABOR CERTIFICATE NO. AH97-21978	TURNAROUND TIME: AS PER CLIENT ☐ RUSH ☐ 12 Hour ☐ 24 HOUR ☒ 48 Hour ☐ 72 Hour ☐ Other_____
DATE SAMPLED: 10/29/13 PROJECT#: 13001E	

NOTES:

SAMPLE NUMBER	HOMO ID #	MATERIAL SAMPLED	LOCATION	ANALYZE ONLY IF SAMPLE TO THE LEFT IS NEGATIVE BY PLM/TEM
001		Conc. Block Filler	Main Office Hall	
002			Rm 106	
003			Library	
004			Rm 213	
005			Rm 315	
006			Gym	
007			Rm 145	
008			Rm A114	
009			Rm A102	
010			Rm B101	

	PRINTED NAME	SIGNATURE	COMPANY	DATE	# OF SAMPLES
Remitted by:	Matt Inman		E&R	10/30/13	10
Received by:	R TROTMAN		EMSL	10/31/13 12:00PM	

PLEASE EMAIL RESULTS TO @ **ATTN:**

PLEASE FAX RESULTS TO (315) 735-6365 **ATTN:** Matt

Please Reply To:

AmeriSci New York
117 EAST 30TH ST.
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-3114

FACSIMILE TELECOPY TRANSMISSION

To:	Jack Eisenbach Eisenbach & Ruhnke Engineering, P.C.	**From:**	Ella Babayeva
Fax #:	(315) 735-6365	**AmeriSci Job #:**	213123883
		Subject:	ELAP-PLM-FRIABLE 48 hour Res
		Client Project:	13001E; Yonkers PS; Robert C. Dodson School
Email:			

Date: Friday, December 27, 2013
Time: 16:01:10
Comments:

Number of Pages: 2 (including cover sheet)

AmeriSci New York
117 EAST 30TH ST.
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-3114

PLM Bulk Asbestos Report

Eisenbach & Ruhnke Engineering, P.C.
Attn: Jack Eisenbach
291 Genesee Street

Utica, NY 13501

Date Received 12/27/13 **AmeriSci Job #** 213123883
Date Examined 12/27/13 **P.O. #**
ELAP # 11480 **Page** 1 **of** 1
RE: 13001E; Yonkers PS; Robert C. Dodson School

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D118	213123883-01	*Yes*	80 %
1	**Location:** Wiring - Catwalk Auditorium		(by NYS ELAP 198.1) by Ella Babayeva on 12/27/13
Analyst Description: White, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** Chrysotile 80.0 % **Other Material:** Cellulose 15 %, Non-fibrous 5 %			
D119	213123883-02		NA/PS
1	**Location:** Wiring - Catwalk Auditorium		
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
D120	213123883-03		NA/PS
1	**Location:** Wiring - Catwalk Auditorium		
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			

Reporting Notes:
Analyzed by: Ella Babayeva

*NAD/NSD =no asbestos detected; NA =not analyzed; NA/PS=not analyzed/positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200546-0), ELAP PLM Method 198.1 for NY friable samples, which includes the identification and quantitation of vermiculite or 198.6 for NOB samples or EPA 400 pt ct by EPA 600/M4-82-020 (NY ELAP Lab ID11480); Note:PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non asbestos-containing in NY State (also see EPA Advisory for floor tile, FR 59,146,38970,8/1/94) National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the lab.This PLM report relates ONLY to the items tested. AIHA Lab # 102843, RI Cert#AAL-094, CT Cert#PH-0186, Mass Cert#AA000054.

Reviewed By:_____

END OF REPORT

EISENBACH & RUHNKE ENGINEERING, P.C.
291 GENESEE STREET, UTICA, NEW YORK 13501
315-735-1916 · FAX 315-735-6365 · E-MAIL info@ereng.com

BULK SAMPLE LOG
ASBESTOS
Log No: ___of___

CLIENT: Yonkers PS

PROJECT NAME/LOCATION: Robert C Dodson School

SAMPLES COLLECTED BY: Matt Inman

NYS DEPT OF LABOR CERTIFICATE NO.: AH97-21978

DATE SAMPLED: 12/23/13 PROJECT#: 13001E

NOTES:

ANALYSIS: ☐ PLM Only ☐ TEM Only
☒ PLM/TEM as required by ELAP
☐ Other _____

TURNAROUND TIME:
☐ RUSH ☐ 12 Hour ☐ 24 HOUR
☒ 48 Hour ☐ 72 Hour ☐ Other_____

SAMPLE NUMBER	HOMO ID #	MATERIAL SAMPLED	LOCATION	ANALYZE ONLY IF SAMPLE TO THE LEFT IS NEGATIVE BY PLM/TEM
D118		Wiring	Catwalk Auditorium	D119, 120
D119		↓	↓ ↓	D120
D120		↓		
			213123883	

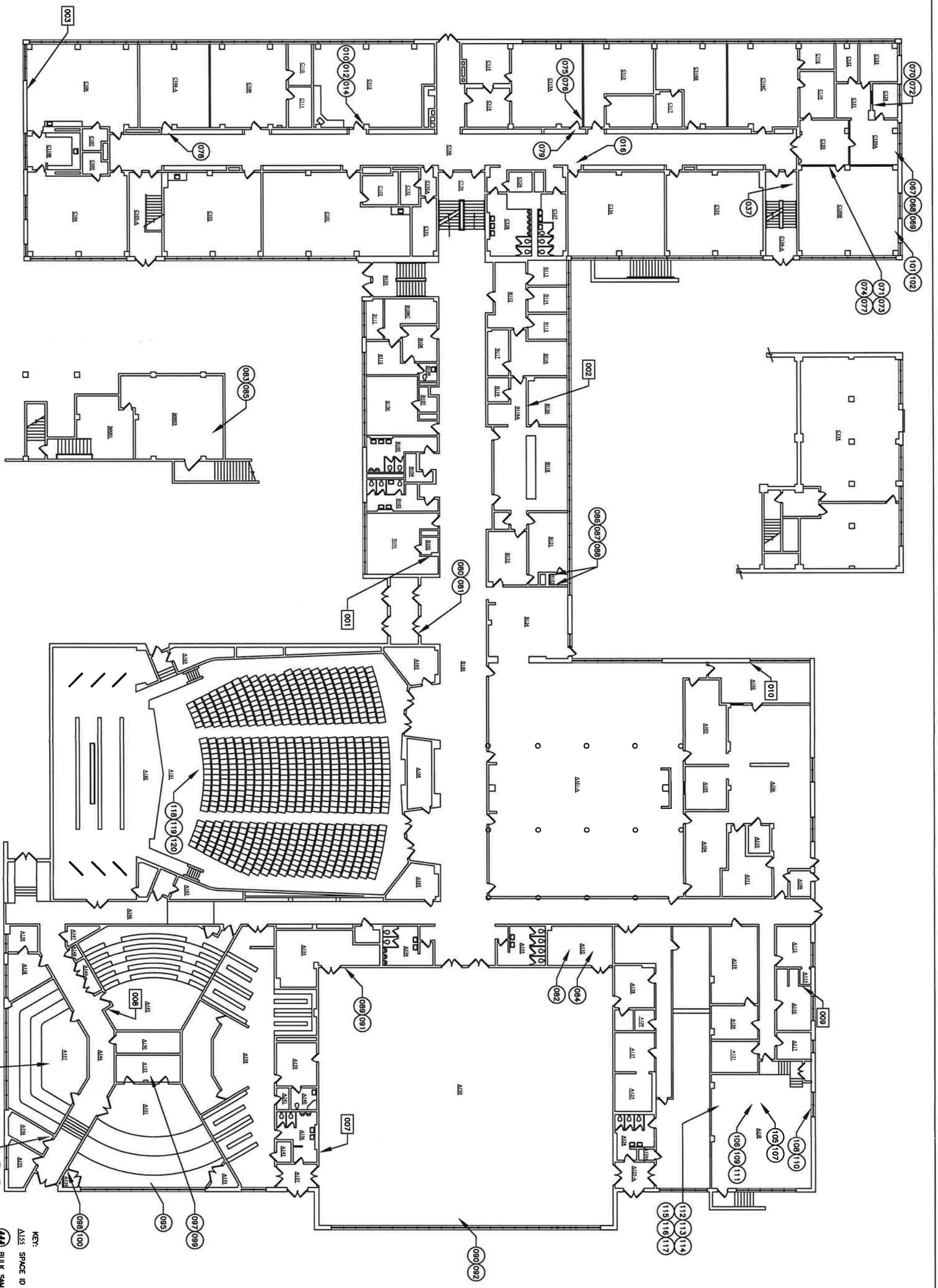
	PRINTED NAME	SIGNATURE	COMPANY	DATE	# OF SAMPLES
Remitted by:	Matt Inman		EHK	12/24/13	3
Received by:	Tonya Kassim			12/27/13 @ 1110	

PLEASE EMAIL RESULTS TO @ ATTN:

PLEASE FAX RESULTS TO (315) 735 - 6365 ATTN: Matt

Appendix B - Drawings Showing Sample Locations

Robert C. Dodson School
ER Project # 13001E
YPS Project # 10458



KEY:

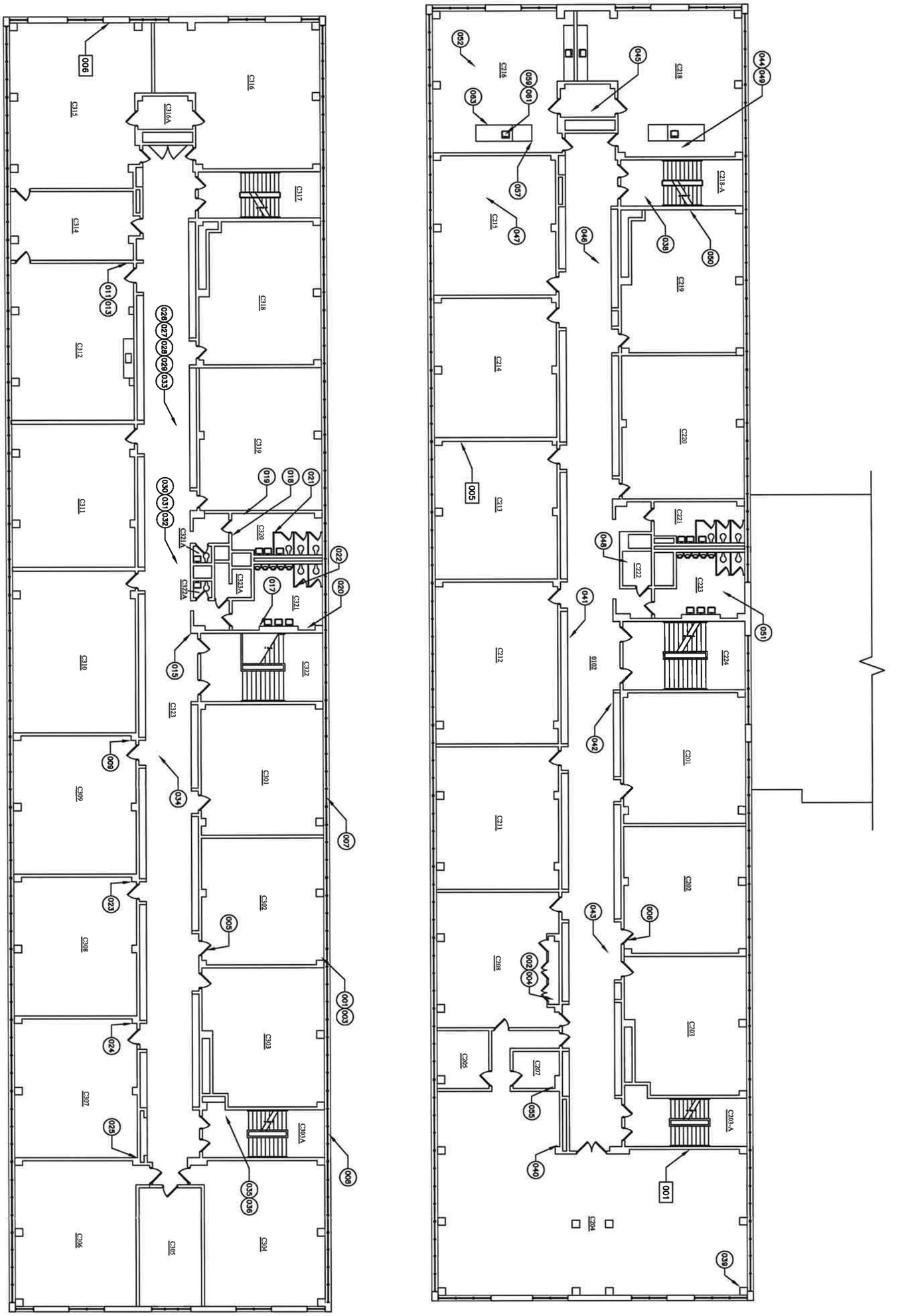
A155 SPACE ID NUMBER

(###) BULK SAMPLE LOCATION

[###] BULK SAMPLE LOCATION 10/29/13

FILE PATH - N:\6-CAD DRAWINGS\2013 - CAD DRAWINGS\13-000 Jack\13001E Robert Dodson School\Survey.dwg

Eisenbach & Ruhnke Engineering, P.C. 291 Genesee Street, Utica - NY 13501 Ph: 315-735-1916 Fax: 315-735-6365 www.erengpc.com	DATE: 12.18.13 SCALE: NTS PROJECT NO: 13001E DRAWN BY: MCI	YONKERS PS ROBERT C. DODSON SCHOOL BULK SAMPLE LOCATION PLAN - FIRST FLOOR	SHEET NO: Figure 1



KEY:

A115 SPACE ID NUMBER

(##) BULK SAMPLE LOCATION

[##] BULK SAMPLE LOCATION

FILE PATH – N:\6–CAD DRAWINGS\2013 – CAD DRAWINGS\13–000 Jack\13001E Robert Dodson School\Survey.dwg

Eisenbach & Ruhnke Engineering, P.C.
291 Genesee Street, Utica – NY 13501 Ph: 315–735–1916
Fax: 315–735–6365 www.erengpc.com

DATE:	SHEET NO:
12.18.13	
SCALE: NTS	
PROJECT NO: 13001E	DRAWN BY: MCI

YONKERS PS

ROBERT C. DODSON SCHOOL

BULK SAMPLE LOCATION PLAN - SECOND/THIRD FLOOR

Figure 2

Appendix C - Accreditations/Licensing

Robert C. Dodson School
ER Project # 13001E
YPS Project # 10458

New York State – Department of Labor
Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

ASBESTOS HANDLING LICENSE

Eisenbach & Ruhnke Engineering, P.C.

291 Genesee Street

Utica, NY 13501

FILE NUMBER: 99-0709
LICENSE NUMBER: 29318
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 08/06/2013
EXPIRATION DATE: 09/30/2014

Duly Authorized Representative – Mark Ruhnke

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Eileen M. Franko, Acting Director
For the Commissioner of Labor

SH 432 (8/12)

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2014
Issued April 01, 2013

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

NY Lab Id No: 11480

MR. RAVI KRISHNAPPA
AMERICA SCIENCE TEAM NEW YORK INC
117 EAST 30TH ST
NEW YORK, NY 10016

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos in Friable Material	EPA 600/M4/82/020
	Item 198.1 of Manual
Asbestos in Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)
Asbestos in Non-Friable Material-TEM	Item 198.4 of Manual

Serial No.: 48678

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE

MATTHEW C INMAN
CLASS(EXPIRES)
C ATEC(11/14) D INSP(11/14)
H PM (11/14)

CERT# 97-21978
DMV# 893350254

MUST BE CARRIED ON ASBESTOS PROJECTS

01213 000081201 62

EYES BRO
HAIR BRO
HGT 6' [illegible]

IF FOUND RETURN TO:
NYSDOL - L&C UNIT
ROOM 161A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY [illegible]

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE

N.Y.S.

KYLE E ROBERTS
CLASS(EXPIRES)
C ATEC(01/15) D INSP(01/15)
H PM (01/15)

CERT# 09-13240
DMV# 669886545

MUST BE CARRIED ON ASBESTOS PROJECTS

EYES BRO
HAIR BRO
HGT 5' 10"

IF FOUND RETURN TO:
NYSDOL - L&C UNIT
ROOM 161A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

Appendix D – Updated AHERA Table

Robert C. Dodson School
ER Project # 13001E
YPS Project # 10458

Space ID	Location Name	Homo No	Form2 Material	Form1 Material	Quantity	BM Categ	Friability	RA Cat	Condition	Asbestos Content
A101	Hallway	HM 43	2x4 Ceiling Tile Rough	2x4 Ceiling Tile	2380 sf	Misc		X		Non ASB JCB#12-24910 TEM
A101	Hallway	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	3380 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A101	Hallway	HM 46*	Fire Door Insulation Metal	Fire Door Insulation	4 Doors	Misc	F	5	No Damage Observed	Assumed
A101	Hallway	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	2380 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
A101A	Cafeteria	HM 43	2x4 Ceiling Tile Rough	2x4 Ceiling Tile	5660 sf	Misc		X		Non ASB JCB#12-24910 TEM
A101A	Cafeteria	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	900 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A101A	Cafeteria	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	1560 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
A101A	**Cafeteria**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**80 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
A101A	**Cafeteria**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**80 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
A102	Faculty Dining	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	450 sf	Misc		X		Non ASB JCB#12-24910 TEM
A102	Faculty Dining	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	580 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A102	Faculty Dining	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A102	Faculty Dining	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	450 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
A102	Faculty Dining	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	25 sf	Misc	NF	5	No Damage Observed	Assumed
A102	**Faculty Dining**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**70 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
A103	Serving Area	HM 14	Ceiling Plaster	Ceiling Plaster	405 sf	Surf	F	2	Minor Damage	Non ASB JCB#13-26051
A103	Serving Area	HM 19C/20C	Ceramic Wall Tile Grout & Glue Yellow	Ceramic Wall Tile Grout & Glue	792 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
A103	Serving Area	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A103	Serving Area	HM 27	Terrazzo Flooring Black With White	Terrazzo Flooring	405 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
A104	Serving Area	HM 14	Ceiling Plaster	Ceiling Plaster	405 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A104	Serving Area	HM 19C/20C	Ceramic Wall Tile Grout & Glue Yellow	Ceramic Wall Tile Grout & Glue	794 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
A104	Serving Area	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A104	Serving Area	HM 27	Terrazzo Flooring Black With White	Terrazzo Flooring	405 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
A105	Dishwashing Area	HM 14	Ceiling Plaster	Ceiling Plaster	225 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A105	Dishwashing Area	HM 19C/20C	Ceramic Wall Tile Grout & Glue Beige	Ceramic Wall Tile Grout & Glue	510 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
A105	Dishwashing Area	HM 27	Terrazzo Flooring Black With White	Terrazzo Flooring	225 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
A106	Kitchen	HM 14	Ceiling Plaster	Ceiling Plaster	1080 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A106	Kitchen	HM 19C/20C	Ceramic Wall Tile Grout & Glue White	Ceramic Wall Tile Grout & Glue	1240 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
A106	Kitchen	HM 27	Terrazzo Flooring Black With White	Terrazzo Flooring	1080 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
A106	**Kitchen**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**40 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
A107	A107 Office	HM 14	Ceiling Plaster	Ceiling Plaster	54 sf	Surf	F	2	Minor Damage	Non ASB JCB#13-26051
A107	A107 Office	HM 19C/20C	Ceramic Wall Tile Grout & Glue Yellow	Ceramic Wall Tile Grout & Glue	72 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
A107	A107 Office	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A107	A107 Office	HM 27	Terrazzo Flooring Black With White	Terrazzo Flooring	54 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
A107	**A107 Office**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**12 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
A108	Kitchen Hallway	HM 14	Ceiling Plaster	Ceiling Plaster	160 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A108	Kitchen Hallway	HM 19C/20C	Ceramic Wall Tile Grout & Glue White	Ceramic Wall Tile Grout & Glue	296 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
A108	Kitchen Hallway	HM 46*	Fire Door Insulation Metal	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Assumed
A108	Kitchen Hallway	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A108	Kitchen Hallway	HM 27	Terrazzo Flooring Black With White	Terrazzo Flooring	160 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
A109	A109 Utility Closet	HM 14	Ceiling Plaster	Ceiling Plaster	64 sf	Surf	F	2	Damaged	Non ASB JCB#13-26051
A109	A109 Utility Closet	HM 19A/20A	Ceramic Floor Tile Grout & Glue Red	Ceramic Floor Tile Grout & Glue	64 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D021, D022
A109	A109 Utility Closet	HM 19C/20C	Ceramic Wall Tile Grout & Glue Beige	Ceramic Wall Tile Grout & Glue	248 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
A109	A109 Utility Closet	HM 46*	Fire Door Insulation Metal	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Assumed
A110	Walk-in Freezer								No Access	
A111	A111 Food Storage	HM 14	Ceiling Plaster	Ceiling Plaster	420 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A111	A111 Food Storage	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	710 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A111	A111 Food Storage	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A111	A111 Food Storage	HM 27	Terrazzo Flooring Black With White	Terrazzo Flooring	420 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
A112	Custodial Locker Room	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	156 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
A112	Custodial Locker Room	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	156 sf	Misc		X		Non ASB JCB#12-24910 TEM
A112	Custodial Locker Room	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	396 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A112	Custodial Locker Room	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A112	Custodial Locker Room	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	10 sf	Misc	NF	5	No Damage Observed	Assumed
A112	**Custodial Locker Room**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**40 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**

Space ID	Location Name	Homo No	Form2 Material	Form1 Material	Quantity	BM Categ	Friability	RA Cat	Condition	Asbestos Content
A113	A115 Bathroom	HM 14	Ceiling Plaster	Ceiling Plaster	24 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A113	A115 Bathroom	HM 19A/20A	Ceramic Floor Tile Grout & Glue Grey	Ceramic Floor Tile Grout & Glue	24 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D021, D022
A113	A115 Bathroom	HM 19C/20C	Ceramic Wall Tile Grout & Glue Grey	Ceramic Wall Tile Grout & Glue	80 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
A113	A115 Bathroom	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A113	A115 Bathroom	HM 13	Wall Plaster	Wall Plaster	100 sf	Surf	F	5	No Damage Observed	Assumed
A114	Breakroom	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	150 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
A114	Breakroom	HM 43	2x4 Ceiling Tile Fissure	2x4 Ceiling Tile	150 sf	Misc		X		Non ASB JCB#12-24910 TEM
A114	Breakroom	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	378 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A114	Breakroom	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A114	**Breakroom**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**40 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
A115	Shower Area	HM 14	Ceiling Plaster	Ceiling Plaster	30 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A115	Shower Area	HM 19A/20A	Ceramic Floor Tile Grout & Glue Grey	Ceramic Floor Tile Grout & Glue	21 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D021, D022
A115	Shower Area	HM 19C/20C	Ceramic Wall Tile Grout & Glue White	Ceramic Wall Tile Grout & Glue	208 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
A115	Shower Area	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A115	Shower Area	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	9 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
A116	A116 Bathroom	HM 14	Ceiling Plaster	Ceiling Plaster	24 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A116	A116 Bathroom	HM 19A/20A	Ceramic Floor Tile Grout & Glue Grey	Ceramic Floor Tile Grout & Glue	24 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D021, D022
A116	A116 Bathroom	HM 19C/20C	Ceramic Wall Tile Grout & Glue Grey	Ceramic Wall Tile Grout & Glue	80 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
A116	A116 Bathroom	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	100 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A116	A116 Bathroom	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A117	Custodian's Office								No Access	
A118	Boiler Room	HM 3	Boiler Insulation	Boiler Insulation	1200 sf	TSI		X		Non ASB Adeliade #10104.00-PM
A118	Boiler Room	HM 61	Boiler Rope Gasket	Boiler Rope Gasket	N/A	TSI		X		Non ASB Adeliade #10104.00-PM
A118	Boiler Room	HM 35B/17B	Ceiling Gypsum Board/compound White	Ceiling Gypsum Board/compound	200 sf	Misc/Surf	F	5	No Damage Observed	Non ASB E&R Sample # D108-111
A118	Boiler Room	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	2200 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A118	Boiler Room	HM 46*	Fire Door Insulation Metal	Fire Door Insulation	4 Doors	Misc	F	5	No Damage Observed	Assumed
A118	Boiler Room	HM 8	Refractory Brick	Refractory Brick	N/A	Misc		X		Non ASB LBG#KT710B9
A118	**Boiler Room**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**30 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
A119	Custodian Workshop								No Access	
A120	A119 Custodian Equipment Room	HM 14	Ceiling Plaster	Ceiling Plaster	250 sf	Surf	F	2	Minor Damage	Non ASB JCB#13-26051
A120	A119 Custodian Equipment Room	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	700 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A120	A119 Custodian Equipment Room	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A121	A118b Incinerator Room	HM 14	Ceiling Plaster	Ceiling Plaster	250 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A121	A118b Incinerator Room	HM 14	Ceiling Plaster	Ceiling Plaster	270 sf	Surf	F	2	Minor Damage	Non ASB JCB#13-26051
A121	A118b Incinerator Room	HM 19A/20A	Ceramic Floor Tile Grout & Glue Brown	Ceramic Floor Tile Grout & Glue	250 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D021, D022
A121	A118b Incinerator Room	HM 19C/20C	Ceramic Wall Tile Grout & Glue Yellow	Ceramic Wall Tile Grout & Glue	233 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
A121	A118b Incinerator Room	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	700 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A121	A118b Incinerator Room	HM 46*	Fire Door Insulation Metal	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Assumed
A121	A118b Incinerator Room	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A121	A118b Incinerator Room	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	270 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
A121	A118b Incinerator Room	HM 13	Wall Plaster Beige	Wall Plaster	430 sf	Surf	F	5	No Damage Observed	Assumed
A122	Hallway	HM 43	2x4 Ceiling Tile Rough	2x4 Ceiling Tile	200 sf	Misc		X		Non ASB JCB#12-24910 TEM
A122	Hallway	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	580 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A122	Hallway	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A122	Hallway	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	200 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
A122	Hallway	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	25 sf	Misc	NF	5	No Damage Observed	Assumed
A123	Custodian's Closet								No Access	
A123A	Vestibule	HM 14	Ceiling Plaster	Ceiling Plaster	104 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A123A	Vestibule	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	369 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A123A	Vestibule	HM 46*	Fire Door Insulation Metal	Fire Door Insulation	4 Doors	Misc	F	5	No Damage Observed	Assumed
A123A	Vestibule	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A123A	Vestibule	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	104 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
A124	Girl's Bathroom	HM 14	Ceiling Plaster	Ceiling Plaster	240 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A124	Girl's Bathroom	HM 19A/20A	Ceramic Floor Tile Grout & Glue Grey	Ceramic Floor Tile Grout & Glue	240 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D021, D022
A124	Girl's Bathroom	HM 19C/20C	Ceramic Wall Tile Grout & Glue Light Blue	Ceramic Wall Tile Grout & Glue	610 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020

Space ID	Location Name	Homo No	Form2 Material	Form1 Material	Quantity	BM Categ	Friability	RA Cat	Condition	Asbestos Content
A124	Girl's Bathroom	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A124	Girl's Bathroom	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	10 sf	Misc	NF	5	No Damage Observed	Assumed
A124A	A122 Art Room	HM 14	Ceiling Plaster	Ceiling Plaster	820 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A124A	A122 Art Room	HM 19C/20C	Ceramic Wall Tile Grout & Glue Yellow	Ceramic Wall Tile Grout & Glue	912 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
A124A	A122 Art Room	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A124A	A122 Art Room	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	820 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
A124A	A122 Art Room	HM 13	Wall Plaster	Wall Plaster	121 sf	Surf	F	5	No Damage Observed	Assumed
A124A	**A122 Art Room**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**30 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
A125	A126 Storage/ Shower	HM 14	Ceiling Plaster	Ceiling Plaster	420 sf	Surf	F	2	Minor Damage	Non ASB JCB#13-26051
A125	A126 Storage/ Shower	HM 19A/20A	Ceramic Floor Tile Grout & Glue Grey	Ceramic Floor Tile Grout & Glue	210 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D021, D022
A125	A126 Storage/ Shower	HM 19C/20C	Ceramic Wall Tile Grout & Glue Blue	Ceramic Wall Tile Grout & Glue	882 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
A125	A126 Storage/ Shower	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A125	A126 Storage/ Shower	HM 35A/17A	Gypsum Board & Compound	Gypsum Board & Compound	96 sf	Misc/Surf	F	5	No Damage Observed	Non ASB E&R Sample # D070-074
A125	A126 Storage/ Shower	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	210 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
A126	Hallway	HM 14	Ceiling Plaster	Ceiling Plaster	410 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A126	Hallway	HM 19C/20C	Ceramic Wall Tile Grout & Glue Yellow	Ceramic Wall Tile Grout & Glue	240 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
A126	Hallway	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A126	Hallway	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	410 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
A126	Hallway	HM 13	Wall Plaster	Wall Plaster	180 sf	Surf	F	5	No Damage Observed	Assumed
A127	A127 Storage	HM 14	Ceiling Plaster	Ceiling Plaster	42 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A127	A127 Storage	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	214 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A127	A127 Storage	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A127	A127 Storage	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	42 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
A128	A128 Gym Office	HM 14	Ceiling Plaster	Ceiling Plaster	180 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A128	A128 Gym Office	HM 19C/20C	Ceramic Wall Tile Grout & Glue Grey	Ceramic Wall Tile Grout & Glue	183 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
A128	A128 Gym Office	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	233 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A128	A128 Gym Office	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A128	A128 Gym Office	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	180 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
A129	A129 Bathroom	HM 14	Ceiling Plaster	Ceiling Plaster	25 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A129	A129 Bathroom	HM 19A/20A	Ceramic Floor Tile Grout & Glue Grey	Ceramic Floor Tile Grout & Glue	25 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D021, D022
A129	A129 Bathroom	HM 19C/20C	Ceramic Wall Tile Grout & Glue Light Blue	Ceramic Wall Tile Grout & Glue	180 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
A129	A129 Bathroom	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A130	A137 Gymnasium	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	6240 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A130	A137 Gymnasium	HM 28/29	Cove Base & Mastic Black	Cove Base & Mastic	312 lf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D089-092
A130	A137 Gymnasium	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	4 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A130	A137 Gymnasium	HM 51	Tectum Decking	Tectum Decking	6212 sf	Misc	F	5	No Damage Observed	Assumed
A130	**A137 Gymnasium**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**320 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
A130	A137 Gymnasium	HM 37	Wood Floor Tar/vapor Barrier	Wood Floor Tar/vapor Barrier	6512 sf	Misc	NF	5	No Damage Observed	
A132	A132 Gym Storage	HM 14	Ceiling Plaster	Ceiling Plaster	208 sf	Surf	F	5	Water Stained	Non ASB JCB#13-26051
A132	A132 Gym Storage	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	386 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A132	**A132 Gym Storage**	**HM 4**	**Duct Insulation Pin Mastic**	**Duct Insulation**	**64 sf**	**TSI**	**F**	**5**	**No Damage Observed**	**ACM - E&R Sample # D082-083**
A132	A132 Gym Storage	HM 46*	Fire Door Insulation Metal	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Assumed
A132	A132 Gym Storage	HM 33	Vibration Reducer Cloth Black	Vibration Reducer Cloth	1 sf	Misc	F	5	No Damage Observed	Assumed
A133	A130 Girl's Bathroom	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	160 sf	Misc		X		Non ASB JCB#12-24910 TEM
A133	A130 Girl's Bathroom	HM 19A/20A	Ceramic Floor Tile Grout & Glue Grey	Ceramic Floor Tile Grout & Glue	160 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D021, D022
A133	A130 Girl's Bathroom	HM 19C/20C	Ceramic Wall Tile Grout & Glue Light Blue	Ceramic Wall Tile Grout & Glue	459 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
A133	A130 Girl's Bathroom	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A134	A136 Boy's Bathroom	HM 43	2x4 Ceiling Tile Fissure	2x4 Ceiling Tile	160 sf	Misc		X		Non ASB JCB#12-24910 TEM
A134	A136 Boy's Bathroom	HM 19A/20A	Ceramic Floor Tile Grout & Glue Grey	Ceramic Floor Tile Grout & Glue	160 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D021, D022
A134	A136 Boy's Bathroom	HM 19C/20C	Ceramic Wall Tile Grout & Glue Beige	Ceramic Wall Tile Grout & Glue	459 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
A134	A136 Boy's Bathroom	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A134A	A134 Custodial	HM 14	Ceiling Plaster	Ceiling Plaster	84 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A134A	A134 Custodial	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	304 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A134A	A134 Custodial	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A134A	A134 Custodial	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	84 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016

Space ID	Location Name	Homo No	Form2 Material	Form1 Material	Quantity	BM Categ	Friability	RA Cat	Condition	Asbestos Content
A135	A135 Storage	HM 14	Ceiling Plaster	Ceiling Plaster	252 sf	Surf	F	2	Minor Damage	Non ASB JCB#13-26051
A135	A135 Storage	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	540 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A135	**A135 Storage**	**HM 4**	**Duct Insulation**	**Duct Insulation**	**64 sf**	**TSI**	**F**	**5**	**No Damage Observed**	**ACM - E&R Sample # D082-083**
A135	A135 Storage	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A135	A135 Storage	HM 33	Vibration Reducer Cloth Black	Vibration Reducer Cloth	1 sf	Misc	F	5	No Damage Observed	Assumed
A136	A142 Boy's Bathroom	HM 14	Ceiling Plaster	Ceiling Plaster	225 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A136	A142 Boy's Bathroom	HM 19A/20A	Ceramic Floor Tile Grout & Glue Grey	Ceramic Floor Tile Grout & Glue	225 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D021, D022
A136	A142 Boy's Bathroom	HM 19C/20C	Ceramic Wall Tile Grout & Glue Beige	Ceramic Wall Tile Grout & Glue	540 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
A136	A142 Boy's Bathroom	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A137	Vestibule	HM 14	Ceiling Plaster	Ceiling Plaster	104 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A137	Vestibule	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	369 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A137	Vestibule	HM 46*	Fire Door Insulation Metal	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Assumed
A137	Vestibule	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	4 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A137	Vestibule	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	104 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
A138	A138 Old Locker Room	HM 14	Ceiling Plaster	Ceiling Plaster	1575 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A138	A138 Old Locker Room	HM 19C/20C	Ceramic Wall Tile Grout & Glue Beige	Ceramic Wall Tile Grout & Glue	3150 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
A138	A138 Old Locker Room	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	4 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A138	A138 Old Locker Room	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	1575 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
A138	A138 Old Locker Room	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	50 sf	Misc	NF	5	No Damage Observed	Assumed
A138	**A138 Old Locker Room**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**30 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
A139	Gym Office	HM 14	Ceiling Plaster	Ceiling Plaster	180 sf	Surf	F	5	Water Stained	Non ASB JCB#13-26051
A139	Gym Office	HM 19C/20C	Ceramic Wall Tile Grout & Glue Grey	Ceramic Wall Tile Grout & Glue	153 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
A139	Gym Office	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	283 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A139	Gym Office	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A139	Gym Office	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	180 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
A140	A140 Bathroom Office (gym)	HM 14	Ceiling Plaster	Ceiling Plaster	20 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A140	A140 Bathroom Office (gym)	HM 19A/20A	Ceramic Floor Tile Grout & Glue Grey	Ceramic Floor Tile Grout & Glue	25 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D021, D022
A140	A140 Bathroom Office (gym)	HM 19C/20C	Ceramic Wall Tile Grout & Glue Beige	Ceramic Wall Tile Grout & Glue	180 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
A140	A140 Bathroom Office (gym)	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A141	A141 Storage	HM 14	Ceiling Plaster	Ceiling Plaster	49 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A141	A141 Storage	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	232 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A141	A141 Storage	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A141	A141 Storage	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	49 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
A143	A143 Storage								No Access	
A144	Hallway	HM 43	2x4 Ceiling Tile Rough	2x4 Ceiling Tile	800 sf	Misc		X		Non ASB JCB#12-24910 TEM
A144	Hallway	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	1510 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A144	Hallway	HM 46*	Fire Door Insulation Metal	Fire Door Insulation	3 Doors	Misc	F	5	No Damage Observed	Assumed
A144	Hallway	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	800 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
A145	A145 Music	HM 23/25	9 x 9 Floor Tile & Mastic	9 X 9 Floor Tile & Mastic	1400 sf	Misc		X		Abated Adelaide #12171.00-PM
A145	A145 Music	HM 14	Ceiling Plaster	Ceiling Plaster	1400 sf	Surf	F	2	Minor Damage	Non ASB JCB#13-26051
A145	A145 Music	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	1150 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A145	A145 Music	HM 28/29	Cove Base & Mastic	Cove Base & Mastic	185 lf	Misc		X		Removed During Abatement
A145	A145 Music	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A145	A145 Music	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	60 sf	Misc	NF	5	No Damage Observed	Assumed
A146	A145a Storage								No Access	
A147	A03 Storage Closet	HM 14	Ceiling Plaster	Ceiling Plaster	50 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A147	A03 Storage Closet	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	144 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A147	A03 Storage Closet	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A148	Storage Closet	HM 14	Ceiling Plaster	Ceiling Plaster	15 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A148	Storage Closet	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	118 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A148	Storage Closet	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A148	Storage Closet	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	15 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
A149	Storage								No Access	
A150	A02a Mechanical Equipment	HM 14	Ceiling Plaster	Ceiling Plaster	400 sf	Surf	F	2	Minor Damage	Non ASB JCB#13-26051
A150	A02a Mechanical Equipment	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	1000 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012

Space ID	Location Name	Homo No	Form2 Material	Form1 Material	Quantity	BM Categ	Friability	RA Cat	Condition	Asbestos Content
A150	**A02a Mechanical Equipment**	**HM 4**	**Duct Insulation Pin Mastic**	**Duct Insulation**	**140 sf**	**TSI**	**F**	**5**	**No Damage Observed**	**ACM - E&R Sample # D082-083**
A150	A02a Mechanical Equipment	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A150	A02a Mechanical Equipment	HM 33	Vibration Reducer Cloth Black	Vibration Reducer Cloth	1 sf	Misc	F	5	No Damage Observed	Assumed
A151	Band Room	HM 24/25	12 X 12 Floor Tile & Mastic Brown With White	12 X 12 Floor Tile & Mastic	1400 sf	Misc	NF	5	No Damage Observed	Assumed
A151	Band Room	HM 14	Ceiling Plaster	Ceiling Plaster	1400 sf	Surf	F	2	Minor Damage	Non ASB JCB#13-26051
A151	Band Room	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	1150 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A151	Band Room	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A151	Band Room	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	100 sf	Misc	NF	5	No Damage Observed	Assumed
A151	**Band Room**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**110 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
A152	**Band Equipment Storage Closet**	**HM 23/25**	**9 X 9 Floor Tile & Mastic Yellow**	**9 X 9 Floor Tile & Mastic**	**180 sf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample #D097-100**
A153	**A153 Band Closet**	**HM 23/25**	**9 X 9 Floor Tile & Mastic Yellow**	**9 X 9 Floor Tile & Mastic**	**56 sf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample #D097-100**
A153	A153 Band Closet	HM 14	Ceiling Plaster	Ceiling Plaster	56 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A153	A153 Band Closet	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	220 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A153	A153 Band Closet	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A154	**A154 Band Closet**	**HM 23/25**	**9 X 9 Floor Tile & Mastic Yellow**	**9 X 9 Floor Tile & Mastic**	**56 sf**	**Misc**	**NF**	**5**	**Missing Tiles**	**ACM - E&R Sample #D097-100**
A154	A154 Band Closet	HM 14	Ceiling Plaster	Ceiling Plaster	56 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A154	A154 Band Closet	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	220 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A155	Speech/Language	HM 24/25	12 X 12 Floor Tile & Mastic Beige With White	12 X 12 Floor Tile & Mastic	120 sf	Misc	NF	5	No Damage Observed	Assumed
A155	Speech/Language	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	120 sf	Misc		X		Non ASB JCB#12-24910 TEM
A155	Speech/Language	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	399 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A155	Speech/Language	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A155	Speech/Language	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	30 sf	Misc	NF	5	No Damage Observed	Assumed
A155	**Speech/Language**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**30 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
A156	A155b Resource / Speech	HM 24/25	12 X 12 Floor Tile & Mastic Maroon	12 X 12 Floor Tile & Mastic	128 sf	Misc	NF	5	No Damage Observed	Assumed
A156	A155b Resource / Speech	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	128 sf	Misc		X		Non ASB JCB#12-24910 TEM
A156	A155b Resource / Speech	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	330 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A156	A155b Resource / Speech	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A156	**A155b Resource / Speech**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**12 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
A157	A157 Music	HM 24/25	12 X 12 Floor Tile & Mastic Brown With White	12 X 12 Floor Tile & Mastic	1400 sf	Misc	NF	5	No Damage Observed	Assumed
A157	A157 Music	HM 14	Ceiling Plaster	Ceiling Plaster	1400 sf	Surf	F	2	Minor Damage	Non ASB JCB#13-26051
A157	A157 Music	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	1350 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A157	A157 Music	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A157	A157 Music	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	60 sf	Misc	NF	5	No Damage Observed	Assumed
A157	**A157 Music**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**70 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
A158	A158	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	110 sf	Misc		X		Non ASB JCB#12-24910 TEM
A158	A158	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	185 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A158	A158	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A158	A158	N/A	Floor Tile & Mastic	Floor Tile & Mastic	110 sf	Misc		X	No Damage Observed	Abated Adelaide #10083.00-PM
A158	**A158**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**45 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
A159	A158a Music Storage	HM 24/25	12 X 12 Floor Tile & Mastic Tan With Brown	12 X 12 Floor Tile & Mastic	143 sf	Misc	NF	5	No Damage Observed	New Tile
A159	A158a Music Storage	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	143 sf	Misc		X		Non ASB JCB#12-24910 TEM
A159	A158a Music Storage	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	252 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A159	A158a Music Storage	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A159	A158a Music Storage	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	20 sf	Misc	NF	5	No Damage Observed	Assumed
A159	**A158a Music Storage**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**25 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
A160	Stage A161	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	2000 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A160	Stage A161	HM 45	Fire Curtains Black	Fire Curtains	1 sf	Misc	F	5	No Damage Observed	Assumed
A160	Stage A161	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A160	Stage A161	HM 22	Spray-On Fireproofing	Spray-On Fireproofing	4100 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A160	Stage A161	HM 37	Wood Floor Tar/vapor Barrier	Wood Floor Tar/vapor Barrier	4000 sf	Misc	NF	5	No Damage Observed	
A160A	A163 Sprinkler Control Valve	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	780 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A160A	A163 Sprinkler Control Valve	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A160A	A163 Sprinkler Control Valve	HM 1	Pipe Insulation	Pipe Insulation	105 lf	TSI	F	5	No Damage Observed	Assumed
A160A1	A163 Catwalk	HM 22	Spray-On Fireproofing	Spray-On Fireproofing	N/A	Surf		X	No Access	Non ASB Original AMP
A160A1	**A163 Catwalk**		**Wiring**	**Wiring**	**40 lf**	**TSI**	**F**	**5**	**No Damage Observed**	**ACM - E&R Sample # D118-120**

Space ID	Location Name	Homo No	Form2 Material	Form1 Material	Quantity	BM Categ	Friability	RA Cat	Condition	Asbestos Content
A160B	Auditorium A162 Storage								No Access	
A161	Auditorium A160	HM 14	Ceiling Plaster White	Ceiling Plaster	7200 sf	Surf	F	5	No Damage Observed	Non ASB JCB#13-26051
A161	Auditorium A160	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	3900 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A161	Auditorium A160	HM 28/29	Cove Base & Mastic	Cove Base & Mastic	250 lf	Misc		X		Replaced During Abatement
A161	Auditorium A160	HM 46*	Fire Door Insulation Metal	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Assumed
A161	Auditorium A160	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	8 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A161	Auditorium A160	N/A	Floor Tile & Mastic	Floor Tile & Mastic	7200 sf	Misc		X		Abated Adelaide #10083.00-PM
A163	A164 Storage Room	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	520 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A163	A164 Storage Room	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A164	A166 Projection Room	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	459 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A164	A166 Projection Room	HM 46*	Fire Door Insulation Metal	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Assumed
A165	Mechanical Room	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	440 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
A165	Mechanical Room	HM 46*	Fire Door Insulation Metal	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Assumed
A165	Mechanical Room	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
A165	Mechanical Room	HM 22	Spray-on Fireproofing	Spray-on Fireproofing	1400 sf	TSI	F	5	No Damage Observed	Non ASB JCB#13-26051
B0001	CB1 Incinerator Room	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	215 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
B0001	CB1 Incinerator Room	HM 46*	Fire Door Insulation Metal	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Assumed
B0003	Air Handler Room/electrical	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	210 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
B0003	Air Handler Room/electrical	HM 46*	Fire Door Insulation Metal	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Assumed
B0003	**Air Handler Room/electrical**	**HM 33**	**Duct Insulation Pin Mastic**	**Vibration Reducer Cloth**	**150 sf**	**Misc**	**F**	**5**	**No Damage Observed**	**ACM - E&R Sample # D080-081**
B0003	Air Handler Room/electrical	HM 33	Vibration Reducer Cloth Green	Vibration Reducer Cloth	1 sf	Misc	F	5	No Damage Observed	Non ASB E&R Sample # D084-085
B100	Hallway	HM 43	2x4 Ceiling Tile Rough	2x4 Ceiling Tile	3500 sf	Misc		X		Non ASB JCB#12-24910 TEM
B100	Hallway	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	2580 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
B100	**Hallway**		**Door Glaze**	**Door Glaze**	**320 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D080-081**
B100	Hallway	HM 46*	Fire Door Insulation Metal	Fire Door Insulation	4 Doors	Misc	F	5	No Damage Observed	Assumed
B100	Hallway	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	3500 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
B100	Hallway	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	275 sf	Misc	NF	5	No Damage Observed	Assumed
B101	Faculty Lounge	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	480 sf	Misc		X		Non ASB JCB#12-24910 TEM
B101	Faculty Lounge	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	810 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
B101	Faculty Lounge	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
B101	Faculty Lounge	N/A	Floor Tile & Mastic	Floor Tile & Mastic	480 sf	Misc		X	No Damage Observed	Abated Adelaide #10083.00-PM
B101	**Faculty Lounge**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**60 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
B102	Pta Closet								No Access	
B103	Women's Bathroom	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	225 sf	Misc		X		Non ASB JCB#12-24910 TEM
B103	Women's Bathroom	HM 19A/20A	Ceramic Floor Tile Grout & Glue Grey	Ceramic Floor Tile Grout & Glue	225 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D021, D022
B103	Women's Bathroom	HM 19C/20C	Ceramic Wall Tile Grout & Glue Pink	Ceramic Wall Tile Grout & Glue	540 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
B103	Women's Bathroom	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
B103	Women's Bathroom	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	15 sf	Misc	NF	5	No Damage Observed	Assumed
B103	**Women's Bathroom**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**20 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
B104	Utility Closet	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	90 sf	Misc		X		Non ASB JCB#12-24910 TEM
B104	Utility Closet	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	270 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
B104	Utility Closet	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
B104	Utility Closet	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	90 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
B105	Men's Bathroom	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	200 sf	Misc		X		Non ASB JCB#12-24910 TEM
B105	Men's Bathroom	HM 19A/20A	Ceramic Floor Tile Grout & Glue Grey	Ceramic Floor Tile Grout & Glue	200 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D021, D022
B105	Men's Bathroom	HM 19C/20C	Ceramic Wall Tile Grout & Glue Yellow	Ceramic Wall Tile Grout & Glue	470 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
B105	Men's Bathroom	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
B105	Men's Bathroom	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	15 sf	Misc	NF	5	No Damage Observed	Assumed
B105	**Men's Bathroom**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**20 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
B105CP	Men's Bathroom Ceiling Plenum								None Observed	
B106	ESL	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	400 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
B106	ESL	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	400 sf	Misc		X		Non ASB JCB#12-24910 TEM
B106	ESL	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	600 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
B106	ESL	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
B106	ESL	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	30 sf	Misc	NF	5	No Damage Observed	Assumed

Space ID	Location Name	Homo No	Form2 Material	Form1 Material	Quantity	CBM Categ	Friability	RA Cat	Condition	Asbestos Content
B106	**ESL**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**60 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
B107	Storage Room	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	50 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
B107	Storage Room	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	50 sf	Misc		X		Non ASB JCB#12-24910 TEM
B107	Storage Room	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	270 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
B107	Storage Room	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
B108	B108 Nurse Waiting Room	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	110 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
B108	B108 Nurse Waiting Room	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	110 sf	Misc		X		Non ASB JCB#12-24910 TEM
B108	B108 Nurse Waiting Room	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	209 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
B108	B108 Nurse Waiting Room	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
B108	B108 Nurse Waiting Room	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	30 sf	Misc	NF	5	No Damage Observed	Assumed
B108C	B108C	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	108 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
B108C	B108C	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	108 sf	Misc		X		Non ASB JCB#12-24910 TEM
B108C	B108C	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	270 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
B108C	B108C	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
B108C	B108C	HM 35A/17A	Gypsum Board & Compound White	Gypsum Board & Compound	110 sf	Misc/Surf	F	5	No Damage Observed	Non ASB E&R Sample # D070-074
B108C	**B108C**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**35 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
B108CP	B108 Nurse Waiting Room Ceiling Plenum								None Observed	
B109	Nurses Office Bathroom	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	30 sf	Misc		X		Non ASB JCB#12-24910 TEM
B109	Nurses Office Bathroom	HM 19A/20A	Ceramic Floor Tile Grout & Glue Grey	Ceramic Floor Tile Grout & Glue	30 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D021, D022
B109	Nurses Office Bathroom	HM 19C/20C	Ceramic Wall Tile Grout & Glue Light Blue	Ceramic Wall Tile Grout & Glue	99 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
B109	Nurses Office Bathroom	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
B109	**Nurses Office Bathroom**	**HM 13**	**Wall Plaster Beige**	**Wall Plaster**	**99 sf**	**Surf**	**F**	**5**	**No Damage Observed**	**ACM - E&R Sample # D086-088**
B109	Nurses Office Bathroom	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	10 sf	Misc	NF	5	No Damage Observed	Assumed
B110	B108a Nurse Office	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	165 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
B110	B108a Nurse Office	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	165 sf	Misc		X		Non ASB JCB#12-24910 TEM
B110	B108a Nurse Office	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	360 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
B110	B108a Nurse Office	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
B110	**B108a Nurse Office**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**75 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
B111	B108b	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	13 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
B111	B108b	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	130 sf	Misc		X		Non ASB JCB#12-24910 TEM
B111	B108b	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	220 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
B111	B108b	HM 35A/17A	Gypsum Board & Compound Beige	Gypsum Board & Compound	100 sf	Misc/Surf	F	5	No Damage Observed	Non ASB E&R Sample # D070-074
B112	Guidance Office Area	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	180 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
B112	Guidance Office Area	HM 43	2x4 Ceiling Tile Fissure	2x4 Ceiling Tile	180 sf	Misc		X		Non ASB JCB#12-24910 TEM
B112	Guidance Office Area	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	320 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
B112	Guidance Office Area	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
B112	Guidance Office Area	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	20 sf	Misc	NF	5	No Damage Observed	Assumed
B113	B113 Office	HM 24/25	12 X 12 Floor Tile & Mastic Tan With Brown	12 X 12 Floor Tile & Mastic	104 sf	Misc	NF	5	No Damage Observed	New Tile
B113	B113 Office	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	104 sf	Misc		X		Non ASB JCB#12-24910 TEM
B113	B113 Office	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	306 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
B113	B113 Office	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
B113	**B113 Office**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**32 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
B114	B114 Office	HM 24/25	12 X 12 Floor Tile & Mastic Tan With Brown	12 X 12 Floor Tile & Mastic	104 sf	Misc	NF	5	No Damage Observed	New Tile
B114	B114 Office	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	104 sf	Misc		X		Non ASB JCB#12-24910 TEM
B114	B114 Office	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	306 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
B114	B114 Office	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
B114	**B114 Office**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**32 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
B115	B115 Office	HM 24/25	12 X 12 Floor Tile & Mastic Tan With Brown	12 X 12 Floor Tile & Mastic	104 sf	Misc	NF	5	No Damage Observed	New Tile
B115	B115 Office	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	104 sf	Misc		X		Non ASB JCB#12-24910 TEM
B115	B115 Office	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	306 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
B115	B115 Office	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
B115	**B115 Office**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**32 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
B116	Office Kitchenette	HM 24/25	12 X 12 Floor Tile & Mastic Tan With Brown	12 X 12 Floor Tile & Mastic	198 sf	Misc	NF	5	No Damage Observed	New Tile
B116	Office Kitchenette	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	190 sf	Misc		X		Non ASB JCB#12-24910 TEM

Space ID	Location Name	Homo No	Form2 Material	Form1 Material	Quantity	EBM Categ	Friability	RA Cat	Condition	Asbestos Content
B116	Office Kitchenette	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	433 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
B116	**Office Kitchenette**	**HM 34**	**Metal Sink Undercoating Black**	**Metal Sink Undercoating**	**1 Unit**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D055-056**
B116	**Office Kitchenette**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**46 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
B117	Storage	HM 24/25	12 X 12 Floor Tile & Mastic Tan With Brown	12 X 12 Floor Tile & Mastic	128 sf	Misc	NF	5	No Damage Observed	New Tile
B117	Storage	HM 43	2x4 Ceiling Tile	2x4 Ceiling Tile	128 sf	Misc		X		Non ASB JCB#12-24910 TEM
B117	Storage	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	412 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
B117	Storage	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
B117CP	Storage Ceiling Plenum								None Observed	
B118	Main Office Area	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	750 sf	Misc		X		Non ASB JCB#12-24910 TEM
B118	Main Office Area	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	450 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
B118	Main Office Area	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
B118	Main Office Area	N/A	Floor Tile & Mastic	Floor Tile & Mastic	750 sf	Misc		X	No Damage Observed	Abated Adelaide #10083.00-PM
B118	Main Office Area	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	50 sf	Misc	NF	5	No Damage Observed	Assumed
B118	**Main Office Area**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**76 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
B118A	B118a Work Room	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	120 sf	Misc		X		Non ASB JCB#12-24910 TEM
B118A	B118a Work Room	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	400 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
B118A	B118a Work Room	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
B118A	B118a Work Room	N/A	Floor Tile & Mastic	Floor Tile & Mastic	120 sf	Misc		X	No Damage Observed	Abated Adelaide #10083.00-PM
B118A	B118a Work Room	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	75 sf	Misc	NF	5	No Damage Observed	Assumed
B118CP	Main Office Area Ceiling Plenum								No Access	
B119	Storage	HM 24/25	12 X 12 Floor Tile & Mastic Tan With Brown	12 X 12 Floor Tile & Mastic	90 sf	Misc	NF	5	No Damage Observed	New Tile
B119	Storage	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	90 sf	Misc		X		Non ASB JCB#12-24910 TEM
B119	Storage	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	289 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
B119	Storage	HM 46*	Fire Door Insulation Metal	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Assumed
B120	Assistant Principal	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	205 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
B120	Assistant Principal	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	205 sf	Misc		X		Non ASB JCB#12-24910 TEM
B120	Assistant Principal	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	369 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
B120	Assistant Principal	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
B120	Assistant Principal	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	30 sf	Misc	NF	5	No Damage Observed	Assumed
B120	**Assistant Principal**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**45 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
B121	Principal's Office	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	280 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
B121	Principal's Office	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	280 sf	Misc		X		Non ASB JCB#12-24910 TEM
B121	Principal's Office	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	442 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
B121	Principal's Office	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
B121	**Principal's Office**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**60 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
B122	Principal's Bathroom	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	24 sf	Misc		X		Non ASB JCB#12-24910 TEM
B122	Principal's Bathroom	HM 19A/20A	Ceramic Floor Tile Grout & Glue Grey	Ceramic Floor Tile Grout & Glue	24 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D021, D022
B122	Principal's Bathroom	HM 19C/20C	Ceramic Wall Tile Grout & Glue Light Blue	Ceramic Wall Tile Grout & Glue	99 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
B122	Principal's Bathroom	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
B122	**Principal's Bathroom**	**HM 13**	**Wall Plaster**	**Wall Plaster**	**126**	**Surf**	**F**	**5**	**No Damage Observed**	**ACM - E&R Sample # D086-088**
B122	**Principal's Bathroom**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**12 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
B123	Conference	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	204 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
B123	Conference	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	204 sf	Misc		X		Non ASB JCB#12-24910 TEM
B123	Conference	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	432 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
B123	Conference	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
B123	Conference	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	60 sf	Misc	NF	5	No Damage Observed	Assumed
B123A	B124 Storage Closet	HM 24/25	12 X 12 Floor Tile & Mastic Tan With Brown	12 X 12 Floor Tile & Mastic	40 sf	Misc	NF	5	No Damage Observed	New Tile
B123A	B124 Storage Closet	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	40 sf	Misc		X		Non ASB JCB#12-24910 TEM
B123A	B124 Storage Closet	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	207 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
B123A	B124 Storage Closet	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
B124	B100 Attendance Office	HM 43	2x4 Ceiling Tile White Speckled	2x4 Ceiling Tile	475 sf	Misc		X		Non ASB JCB#12-24910 TEM
B124	B100 Attendance Office	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	639 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
B124	B100 Attendance Office	HM 46*	Fire Door Insulation Metal	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Assumed
B124	B100 Attendance Office	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
B124	B100 Attendance Office	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	475 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016

Space ID	Location Name	Homo No	Form2 Material	Form1 Material	Quantity	EBM Categ	Friability	RA Cat	Condition	Asbestos Content
B124	**B100 Attendance Office**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**30 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
B125	Stairwell	HM 43	2x4 Ceiling Tile Rough	2x4 Ceiling Tile	216 sf	Misc		X		Non ASB JCB#12-24910 TEM
B125	Stairwell	HM 46*	Fire Door Insulation Metal	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Assumed
B125	Stairwell	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	216 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
C101	C101	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	1320 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C101	C101	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	1360 sf	Misc		X		Non ASB JCB#12-24910 TEM
C101	C101	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	1560 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C101	C101	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C101	C101	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C101	**C101**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**200 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C102	C101A Closet	HM 24/25	12 X 12 Floor Tile & Mastic Tan With Brown	12 X 12 Floor Tile & Mastic	108 sf	Misc	NF	5	No Damage Observed	New Tile
C102	C101A Closet	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	108 sf	Misc		X		Non ASB JCB#12-24910 TEM
C102	C101A Closet	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	260 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C102	C101A Closet	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C103	C103	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C103	C103	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM
C103	C103	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	892 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C103	C103	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C103	**C103**	**HM 34**	**Metal Sink Undercoating White**	**Metal Sink Undercoating**	**1 Unit**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D055-056**
C103	C103	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C103	**C103**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**80 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C103A	Stairwell	HM 35B/17B	Ceiling Gypsum Board/compound White	Ceiling Gypsum Board/compound	110 sf	Misc/Surf	F	5	No Damage Observed	Non ASB E&R Sample # D035-038
C103A	Stairwell	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	20 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C103A	Stairwell	HM 46*	Fire Door Insulation Metal	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Assumed
C103A	Stairwell	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C103A	Stairwell	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	280 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
C104	C104	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C104	C104	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM
C104	C104	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	892 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C104	C104	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C104	**C104**	**HM 34**	**Metal Sink Undercoating Black**	**Metal Sink Undercoating**	**1 Unit**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D055-056**
C104	C104	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C104	**C104**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**80 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C105	Closet C104a								No Access	
C106	C106	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	880 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C106	C106	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	880 sf	Misc		X		Non ASB JCB#12-24910 TEM
C106	C106	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	972 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C106	C106	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C106	**C106**	**HM 34**	**Metal Sink Undercoating Black**	**Metal Sink Undercoating**	**1 Unit**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D055-056**
C106	C106	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	300 sf	Misc	NF	5	No Damage Observed	Assumed
C106	**C106**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**100 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C107	C106 Closet	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	64 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C107	C106 Closet	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	64 sf	Misc		X		Non ASB JCB#12-24910 TEM
C107	C106 Closet	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	268 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C107	C106 Closet	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C107CP	C106 Closet Ceiling Plenum	HM 16	Cementitious Material	Cementitious Material	48 sf	Surf	NF	5	Limited Visual Access	Non ASB E&R Sample #D041-043
C108	Room Between C106 and C104								No Access	
C109	C109	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	560 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C109	C109	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	560 sf	Misc		X		Non ASB JCB#12-24910 TEM
C109	C109	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	198 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C109	C109	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C109	C109	HM 35A/17A	Gypsum Board & Compound Beige	Gypsum Board & Compound	260 sf	Misc/Surf	F	5	No Damage Observed	Non ASB E&R Sample # D070-074
C109	C109	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	50 sf	Misc	NF	5	No Damage Observed	Assumed
C109	**C109**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**70 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C109A	Room C108	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	560 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004

Space ID	Location Name	Homo No	Form2 Material	Form1 Material	Quantity	BM Categ	Friability	RA Cat	Condition	Asbestos Content
C109A	Room C108	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	560 sf	Misc		X		Non ASB JCB#12-24910 TEM
C109A	Room C108	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	306 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C109A	Room C108	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C109A	Room C108	HM 35A/17A	Gypsum Board & Compound Beige	Gypsum Board & Compound	256 sf	Misc/Surf	F	5	No Damage Observed	Non ASB E&R Sample # D070-074
C109A	**Room C108**	**HM 34**	**Metal Sink Undercoating**	**Metal Sink Undercoating**	**1 Unit**	**Misc**	**NF**	**5**	**Limited Visual Access**	**ACM - E&R Sample # D055-056**
C109A	Room C108	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	100 sf	Misc	NF	5	No Damage Observed	Assumed
C109A	**Room C108**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**70 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C110	C110 Office in C109	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	100 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C110	C110 Office in C109	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	100 sf	Misc		X		Non ASB JCB#12-24910 TEM
C110	C110 Office in C109	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	135 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C110	C110 Office in C109	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C110	C110 Office in C109	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	25 sf	Misc	NF	5	No Damage Observed	Assumed
C110	**C110 Office in C109**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**20 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C111	C111 Storage Closet in C109	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	108 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C111	C111 Storage Closet in C109	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	108 sf	Misc		X		Non ASB JCB#12-24910 TEM
C111	C111 Storage Closet in C109	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	306 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C111	C111 Storage Closet in C109	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C112	C112	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	1120 sf	Misc		X		Non ASB JCB#12-24910 TEM
C112	C112	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	992 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C112	C112	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C112	C112	N/A	Floor Tile & Mastic	Floor Tile & Mastic	1120 sf	Misc		X	No Damage Observed	Abated Adelaide #10083.00-PM
C112	**C112**	**HM 34**	**Metal Sink Undercoating Black**	**Metal Sink Undercoating**	**1 Unit**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D055-056**
C112	C112	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	150 sf	Misc	NF	5	No Damage Observed	Assumed
C112	**C112**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**110 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C113	C113	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	642 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C113	C113	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	642 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C113	C113	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	642 sf	Misc		X		Non ASB JCB#12-24910 TEM
C113	C113	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	642 sf	Misc		X		Non ASB JCB#12-24910 TEM
C113	C113	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	288 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C113	C113	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	459 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C113	C113	HM 28/29	Cove Base & Mastic Brown	Cove Base & Mastic	28 lf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D076-077
C113	C113	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C113	C113	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C113	C113	HM 35A/17A	Gypsum Board & Compound Beige	Gypsum Board & Compound	236 sf	Misc/Surf	F	5	No Damage Observed	Non ASB E&R Sample # D070-074
C113	C113	HM 35A/17A	Gypsum Board & Compound Beige	Gypsum Board & Compound	236 sf	Misc/Surf	F	5	No Damage Observed	Non ASB E&R Sample # D070-074
C113	C113	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	100 sf	Misc	NF	5	No Damage Observed	Assumed
C113	C113	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	100 sf	Misc	NF	5	No Damage Observed	Assumed
C113	**C113**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**70 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C113	**C113**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**70 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C114	C114 Classroom	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	143 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C114	C114 Classroom	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	143 sf	Misc		X		Non ASB JCB#12-24910 TEM
C114	C114 Classroom	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	288 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C114	C114 Classroom	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C115	C113b Office	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	150 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C115	C113b Office	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	150 sf	Misc		X		Non ASB JCB#12-24910 TEM
C115	C113b Office	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	235 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C115	C113b Office	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C115	**C113b Office**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**50 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C116B	C115	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	642 sf	Misc		X		Non ASB JCB#12-24910 TEM
C116B	C115	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	308 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C116B	C115	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C116B	C115	HM 35A/17A	Gypsum Board & Compound Beige	Gypsum Board & Compound	236 sf	Misc/Surf	F	5	No Damage Observed	Non ASB E&R Sample # D070-074
C116B	C116	HM 35A/17A	Gypsum Board & Compound Beige	Gypsum Board & Compound	236 sf	Misc/Surf	F	5	No Damage Observed	Non ASB E&R Sample # D070-074
C116B	**C115**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**60 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**

Space ID	Location Name	Homo No	Form2 Material	Form1 Material	Quantity	CBM Categ	Friability	RA Cat	Condition	Asbestos Content
C116C	C116	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	642 sf	Misc		X		Non ASB JCB#12-24910 TEM
C116C	C116	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C116C	**C116**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**70 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C117	C115 Storage	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	108 sf	Misc		X		Non ASB JCB#12-24910 TEM
C117	C115 Storage	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	340 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C117	C115 Storage	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C118	Mower Storage	HM 24/25	12 X 12 Floor Tile & Mastic Tan With Brown	12 X 12 Floor Tile & Mastic	110 sf	Misc	NF	5	No Damage Observed	New Tile
C118	Mower Storage	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	110 sf	Misc		X		Non ASB JCB#12-24910 TEM
C118	Mower Storage	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	198 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C118	Mower Storage	HM 28/29	Cove Base & Mastic Brown	Cove Base & Mastic	39 lf	Misc	NF	5	Limited Visual Access	Non ASB E&R Sample # D076-077
C118	Mower Storage	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C118	**Mower Storage**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**30 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C119	C119 Office	HM 24/25	12 X 12 Floor Tile & Mastic Tan With Brown	12 X 12 Floor Tile & Mastic	154 sf	Misc	NF	5	No Damage Observed	New Tile
C119	C119 Office	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	154 sf	Misc		X		Non ASB JCB#12-24910 TEM
C119	C119 Office	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	328 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C119	C119 Office	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C120	C120a Vestibule	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	195 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C120	C120a Vestibule	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	198 sf	Misc		X		Non ASB JCB#12-24910 TEM
C120	C120a Vestibule	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	344 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C120	C120a Vestibule	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C120	C120a Vestibule	HM 35A/17A	Gypsum Board & Compound Beige	Gypsum Board & Compound	144 sf	Misc/Surf	F	5	No Damage Observed	Non ASB E&R Sample # D070-074
C120A	C120a	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	300 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C120A	C120a	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	300 sf	Misc		X		Non ASB JCB#12-24910 TEM
C120A	C120a	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	70 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C120A	C120a	HM 28/29	Cove Base & Mastic Brown	Cove Base & Mastic	20 lf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D076-077
C120A	C120a	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C120A	C120a	HM 35A/17A	Gypsum Board & Compound Beige	Gypsum Board & Compound	315 sf	Misc/Surf	F	5	No Damage Observed	Non ASB E&R Sample # D070-074
C120A	**C120a**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**30 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C120AC	C120a Ceiling Plenum	HM 16	Cementitious Material	Cementitious Material	325 sf	Surf	NF	5	Limited Visual Access	Non ASB E&R Sample #D041-043
C120B	C120 Art	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C120B	C120 Art	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM
C120B	C120 Art	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	600 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C120B	C120 Art	HM 21/30	Concrete Block & Mortar Beige	Concrete Block & Mortar	292 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C120B	C120 Art	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C120B	C120 Art	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	100 sf	Misc	NF	5	No Damage Observed	Assumed
C120B	**C120 Art**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**100 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C121	C121	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	144 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C121	C121	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	144 sf	Misc		X		Non ASB JCB#12-24910 TEM
C121	C121	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	204 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C121CP	C121 Ceiling Plenum								None Observed	
C122	C122 Office	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	84 sf	Misc		X		Non ASB JCB#12-24910 TEM
C122	C122 Office	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	289 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C122	C122 Office	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C122	**C122 Office**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**25 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C122CP	C122 Office Ceiling Plenum								None Observed	
C123	Resource	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	144 sf	Misc		X		Non ASB JCB#12-24910 TEM
C123	Resource	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	334 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C123	Resource	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C123	**Resource**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**50 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C124	C124 Work Room	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	108 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C124	C124 Work Room	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	108 sf	Misc		X		Non ASB JCB#12-24910 TEM
C124	C124 Work Room	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	240 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C124	C124 Work Room	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C124	**C124 Work Room**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**25 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C124A	Stairwell	HM 35B/17B	Ceiling Gypsum Board/compound White	Ceiling Gypsum Board/compound	110 sf	Misc/Surf	F	5	No Damage Observed	Non ASB E&R Sample # D035-038

Space ID	Location Name	Homo No	Form2 Material	Form1 Material	Quantity	BM Categ	Friability	RA Cat	Condition	Asbestos Content
C124A	Stairwell	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	20 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C124A	Stairwell	HM 46*	Fire Door Insulation Metal	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Assumed
C124A	Stairwell	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C124A	Stairwell	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	224 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
C124CP	C124 Work Room Ceiling Plenum								None Observed	
C125	C125	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C125	C125	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM
C125	C125	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	892 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C125	C125	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C125	C125	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C125	**C125**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**80 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C126	C126	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C126	C126	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM
C126	C126	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	892 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C126	C126	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C126	C126	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C126	**C126**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**80 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C127	Girl's Bathroom	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	160 sf	Misc		X		Non ASB JCB#12-24910 TEM
C127	Girl's Bathroom	HM 19A/20A	Ceramic Floor Tile Grout & Glue Grey	Ceramic Floor Tile Grout & Glue	160 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D021, D022
C127	Girl's Bathroom	HM 19C/20C	Ceramic Wall Tile Grout & Glue Light Blue	Ceramic Wall Tile Grout & Glue	428 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
C127	Girl's Bathroom	HM 46*	Fire Door Insulation	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Assumed
C127CP	Girl's Bathroom Ceiling Plenum	HM 16	Cementitious Material	Cementitious Material	220 sf	Surf	NF	5	Limited Visual Access	Non ASB E&R Sample #D041-043
C128	Boy's Bathroom	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	224 sf	Misc		X		Non ASB JCB#12-24910 TEM
C128	Boy's Bathroom	HM 19A/20A	Ceramic Floor Tile Grout & Glue Grey	Ceramic Floor Tile Grout & Glue	225 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D021, D022
C128	Boy's Bathroom	HM 19C/20C	Ceramic Wall Tile Grout & Glue Beige	Ceramic Wall Tile Grout & Glue	540 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
C128	Boy's Bathroom	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C128CP	Boy's Bathroom Ceiling Plenum	HM 16	Cementitious Material	Cementitious Material	280 sf	Surf	NF	5	Limited Visual Access	Non ASB E&R Sample #D041-043
C129	Stairwell	HM 35B/17B	Ceiling Gypsum Board/compound White	Ceiling Gypsum Board/compound	250 sf	Misc/Surf	F	5	No Damage Observed	Non ASB E&R Sample # D035-038
C129	Stairwell	HM 46*	Fire Door Insulation Metal	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Assumed
C129	Stairwell	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	330 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
C129A	C129 Custodial Closet	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	286 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C129A	C129 Custodial Closet	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C129A	C129 Custodial Closet	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	72 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
C130	Hallway	HM 43	2x4 Ceiling Tile Rough	2x4 Ceiling Tile	1620 sf	Misc		X		Non ASB JCB#12-24910 TEM
C130	Hallway	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	4800 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C130	Hallway	HM 46*	Fire Door Insulation Metal	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Assumed
C130	Hallway	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	1620 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
C130	Hallway	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	40 sf	Misc	NF	5	No Damage Observed	Assumed
C130CP	Hallway Ceiling Plenum	HM 16	Cementitious Material	Cementitious Material	1620 sf	Surf	NF	5	Limited Visual Access	Non ASB E&R Sample #D041-043
C131	Storage Closet/computer Man Server C132	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	140 sf	Misc		X		Non ASB JCB#12-24910 TEM
C131	Storage Closet/computer Man Server C132	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	457 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C131	Storage Closet/computer Man Server C132	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C131	Storage Closet/computer Man Server C132	N/A	Floor Tile & Mastic	Floor Tile & Mastic	140 sf	Misc		X	No Damage Observed	Abated Adelaide #10083.00-PM
C132	Closet 131b	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	60 sf	Misc		X		Non ASB JCB#12-24910 TEM
C132	Closet 131b	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	268 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C132	Closet 131b	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C132	Closet 131b	N/A	Floor Tile & Mastic	Floor Tile & Mastic	60 sf	Misc		X	No Damage Observed	Abated Adelaide #10083.00-PM
C132	Closet 131b	HM 44	Laboratory Table Tops	Laboratory Table Tops	30 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D057-058
C132A	Server Closet Hallway	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	36 sf	Misc		X		Non ASB JCB#12-24910 TEM
C132A	Server Closet Hallway	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	160 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C132A	Server Closet Hallway	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C132A	Server Closet Hallway	N/A	Floor Tile & Mastic	Floor Tile & Mastic	36 sf	Misc		X	No Damage Observed	Abated Adelaide #10083.00-PM

Space ID	Location Name	Homo No	Form2 Material	Form1 Material	Quantity	BM Categ	Friability	RA Cat	Condition	Asbestos Content
C132ACP	Server Closet Hallway Ceiling Plenum	HM 16	Cementitious Material	Cementitious Material	36 sf	Surf	NF	5	Limited Visual Access	Non ASB E&R Sample #D041-043
C134A	C134a Storage	HM 24/25	12 X 12 Floor Tile & Mastic Tan With Brown	12 X 12 Floor Tile & Mastic	621 sf	Misc	NF	5	No Damage Observed	New Tile
C134A	C134a Storage	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	554 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C134A	C134a Storage	HM 46*	Fire Door Insulation Metal	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Assumed
C134A	C134a Storage	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	120 sf	Misc	NF	5	No Damage Observed	Assumed
C134B	C134B Storage	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	720 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C134B	C134B Storage	HM 46*	Fire Door Insulation Metal	Fire Door Insulation	3 Doors	Misc	F	5	No Damage Observed	Assumed
C134B	C134B Storage	HM 33	Vibration Reducer Cloth Black	Vibration Reducer Cloth	2 sf	Misc	F	5	No Damage Observed	Assumed
C134B	C134B Storage	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	80 sf	Misc	NF	5	No Damage Observed	Assumed
C201	C201	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	784 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C201	C201	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	784 sf	Misc		X		Non ASB JCB#12-24910 TEM
C201	C201	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	794 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C201	C201	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C201	C201	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	150 sf	Misc	NF	5	No Damage Observed	Assumed
C201	**C201**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**70 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C202	C202	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C202	C202	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM
C202	C202	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	892 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C202	C202	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C202	C202	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C202	**C202**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**80 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C203	C203	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C203	C203	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM
C203	C203	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	892 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C203	C203	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C203	C203	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C203	**C203**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**80 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C203A	Stairwell	HM 35B/17B	Ceiling Gypsum Board/compound White	Ceiling Gypsum Board/compound	128 sf	Misc/Surf	F	5	No Damage Observed	Non ASB E&R Sample # D035-038
C203A	Stairwell	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	20 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C203A	Stairwell	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C203A	Stairwell	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	158 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
C203A	**Stairwell**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**70 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C204	Library	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	1950 sf	Misc		X		Non ASB JCB#12-24910 TEM
C204	Library	HM 47A	Carpet Mastic	Carpet Mastic	1920 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D0039, 040
C204	Library	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	1260 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C204	Library	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C204	**Library**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**310 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C205	C205 Library Office	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	150 sf	Misc		X		Non ASB JCB#12-24910 TEM
C205	C205 Library Office	HM 47A	Carpet Mastic	Carpet Mastic	150 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D0039, 040
C205	C205 Library Office	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	135 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C205	C205 Library Office	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C205	**C205 Library Office**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**40 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C206	Hallway/library	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	104 sf	Misc		X		Non ASB JCB#12-24910 TEM
C206	Hallway/library	HM 47A	Carpet Mastic	Carpet Mastic	104 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D0039, 040
C206	Hallway/library	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	295 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C206	Hallway/library	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C207	Library Office	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	120 sf	Misc		X		Non ASB JCB#12-24910 TEM
C207	Library Office	HM 47A	Carpet Mastic	Carpet Mastic	120 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D0039, 040
C207	Library Office	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	198 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C207	Library Office	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C207	**Library Office**	**HM 34**	**Metal Sink Undercoating Black**	**Metal Sink Undercoating**	**1 Unit**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D055-056**
C208	C208	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C208	C208	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM
C208	C208	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	892 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012

Space ID	Location Name	Homo No	Form2 Material	Form1 Material	Quantity	BM Categ	Friability	RA Cat	Condition	Asbestos Content
C208	C208	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	3 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C208	C208	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	150 sf	Misc	NF	5	No Damage Observed	Assumed
C208	**C208**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**80 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C208A	C208 Coat Closet								No Access	
C208B	C208 Storage	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	20 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C208B	C208 Storage	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	20 sf	Misc		X		Non ASB JCB#12-24910 TEM
C208B	C208 Storage	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	112 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C208B	C208 Storage	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	4 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C211	C211	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C211	C211	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM
C211	C211	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	892 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C211	C211	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C211	C211	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	150 sf	Misc	NF	5	No Damage Observed	Assumed
C211	**C211**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**80 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C212	C212	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C212	C212	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM
C212	C212	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	892 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C212	C212	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C212	C212	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C212	**C212**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**80 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C213	C213	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C213	C213	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM
C213	C213	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	892 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C213	C213	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C213	C213	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C213	**C213**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**80 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C214	C214	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C214	C214	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM
C214	C214	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	892 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C214	C214	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C214	C214	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C214	**C214**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**80 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C215	C215	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C215	C215	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM
C215	C215	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	892 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C215	C215	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C215	C215	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C215	**C215**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**80 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C216	C216	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	1008 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C216	C216	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	1008 sf	Misc		X		Non ASB JCB#12-24910 TEM
C216	C216	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	890 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C216	C216	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C216	C216	HM 44	Laboratory Table Tops	Laboratory Table Tops	320 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D057-058
C216	**C216**		**Laboratory Table Top Mastic**	**Laboratory Table Top Mastic**	**15 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D061-062**
C216	C216	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	100 sf	Misc	NF	5	No Damage Observed	Assumed
C216	**C216**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**120 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C217	C217 Storage Closet	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	96 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C217	C217 Storage Closet	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	96 sf	Misc		X		Non ASB JCB#12-24910 TEM
C217	C217 Storage Closet	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	320 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C217	C217 Storage Closet	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C217CP	C217 Storage Closet Ceiling Plenum	HM 16	Cementitious Material	Cementitious Material	130 sf	Surf	NF	5	Limited Visual Access	Non ASB E&R Sample #D041-043
C218	C218	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	1120 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C218	C218	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	1120 sf	Misc		X		Non ASB JCB#12-24910 TEM
C218	C218	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	984 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C218	C218	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred

Space ID	Location Name	Homo No	Form2 Material	Form1 Material	Quantity	BM Categ	Friability	RA Cat	Condition	Asbestos Content
C218	C218	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C218	**C218**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**120 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C218A	Stairwell	HM 35B/17B	Ceiling Gypsum Board/compound White	Ceiling Gypsum Board/compound	128 sf	Misc/Surf	F	5	No Damage Observed	Non ASB E&R Sample # D035-038
C218A	Stairwell	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C218A	Stairwell	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	158 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
C218A	**Stairwell**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**70 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C219	C219	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C219	C219	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM
C219	C219	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	892 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C219	C219	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C219	C219	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C219	**C219**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**80 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C220	C220	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C220	C220	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM
C220	C220	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	892 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C220	C220	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C220	C220	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C220	**C220**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**80 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C221	C222 Girls' Bathroom	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	160 sf	Misc		X		Non ASB JCB#12-24910 TEM
C221	C222 Girls' Bathroom	HM 19A/20A	Ceramic Floor Tile Grout & Glue Grey	Ceramic Floor Tile Grout & Glue	160 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D021, D022
C221	C222 Girls' Bathroom	HM 19C/20C	Ceramic Wall Tile Grout & Glue Blue	Ceramic Wall Tile Grout & Glue	328 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
C221	C222 Girls' Bathroom	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C221	**C222 Girls' Bathroom**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**10 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C222	Janitor's Closet	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	10 sf	Misc		X		Non ASB JCB#12-24910 TEM
C222	Janitor's Closet	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	288 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C222	Janitor's Closet	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C222	Janitor's Closet	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	64 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
C222CP	Janitor's Closet Cp	HM 16	Cementitious Material	Cementitious Material	56 sf	Surf	NF	5	Limited Visual Access	Non ASB E&R Sample #D041-043
C223	C223 Boys Bathroom	HM 43	2x4 Ceiling Tile Fissure	2x4 Ceiling Tile	225 sf	Misc		X		Non ASB JCB#12-24910 TEM
C223	Stairwell	HM 35B/17B	Ceiling Gypsum Board/compound White	Ceiling Gypsum Board/compound	70 sf	Misc/Surf	F	5	No Damage Observed	Non ASB E&R Sample # D035-038
C223	C223 Boys Bathroom	HM 19A/20A	Ceramic Floor Tile Grout & Glue Grey	Ceramic Floor Tile Grout & Glue	225 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D021, D022
C223	C223 Boys Bathroom	HM 19C/20C	Ceramic Wall Tile Grout & Glue Beige	Ceramic Wall Tile Grout & Glue	540 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
C223	C223 Boys Bathroom	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C223	Stairwell	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C223	Stairwell	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	118 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
C223	**C223 Boys Bathroom**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**10 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C223	**C223 Boys Bathroom**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**10 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C224	Hallway	HM 43	2x4 Ceiling Tile Rough	2x4 Ceiling Tile	1680 sf	Misc		X		Non ASB JCB#12-24910 TEM
C224	Hallway	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	1300 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C224	Hallway	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	1680 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
C224CP	Hallway Ceiling Plenum	HM 16	Cementitious Material	Cementitious Material	1680 sf	Surf	NF	5	No Damage Observed	Non ASB E&R Sample #D041-043
C301	Room C301	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C301	Room C301	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM
C301	Room C301	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	892 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C301	Room C301	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C301	Room C301	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C301	**Room C301**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**70 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C302	Room C302	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C302	Room C302	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM
C302	Room C302	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	892 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C302	Room C302	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C302	Room C302	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C302	**Room C302**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**70 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C303	C303	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C303	C303	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM

Space ID	Location Name	Homo No	Form2 Material	Form1 Material	Quantity	BM Categ	Friability	RA Cat	Condition	Asbestos Content
C303	C303	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	892 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C303	C303	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C303	C303	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C303	**C303**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**80 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C303A	Stairwell	HM 35B/17B	Ceiling Gypsum Board/compound	Ceiling Gypsum Board/compound	220 sf	Misc/Surf	F	4	Damaged	Non ASB E&R Sample # D035-038
C303A	Stairwell	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	20 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C303A	Stairwell	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C303A	Stairwell	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	508 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
C303A	**Stairwell**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**70 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C304	Room C304	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	930 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C304	Room C304	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	950 sf	Misc		X		Non ASB JCB#12-24910 TEM
C304	Room C304	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	950 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C304	Room C304	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C304	Room C304	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C304	**Room C304**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**100 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C305	Room C305 Office	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	286 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C305	Room C305 Office	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	286 sf	Misc		X		Non ASB JCB#12-24910 TEM
C305	Room C305 Office	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	486 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C305	Room C305 Office	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C305	Room C305 Office	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	100 sf	Misc	NF	5	No Damage Observed	Assumed
C305	**Room C305 Office**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**36 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C306	Room C306	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	930 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C306	Room C306	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	910 sf	Misc		X		Non ASB JCB#12-24910 TEM
C306	Room C306	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	950 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C306	Room C306	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C306	Room C306	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C306	**Room C306**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**100 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C307	Room C307	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C307	Room C307	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM
C307	Room C307	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	892 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C307	Room C307	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C307	Room C307	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C307	**Room C307**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**80 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C308	Room C308	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C308	Room C308	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM
C308	Room C308	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	892 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C308	Room C308	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C308	Room C308	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C308	**Room C308**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**80 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C309	C309	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C309	C309	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM
C309	C309	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	892 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C309	C309	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C309	C309	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C309	**C309**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**100 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C310	C310	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C310	C310	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM
C310	C310	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	892 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C310	C310	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C310	C310	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C310	**C310**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**100 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C311	C311	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C311	C311	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM
C311	C311	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	892 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C311	C311	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred

Space ID	Location Name	Homo No	Form2 Material	Form1 Material	Quantity	BM Categ	Friability	RA Cat	Condition	Asbestos Content
C311	C311	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C311	**C311**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**80 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C312	C312	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C312	C312	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM
C312	**C312**	**HM 21/30**	**Concrete Block Filler**	**Concrete Block Filler**	**892 sf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample #D013**
C312	C312	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C312	C312	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C312	**C312**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**80 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C314	C314 Resource	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	480 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C314	C314 Resource	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	480 sf	Misc		X		Non ASB JCB#12-24910 TEM
C314	C314 Resource	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	692 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C314	C314 Resource	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C314	C314 Resource	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	50 sf	Misc	NF	5	No Damage Observed	Assumed
C314	**C314 Resource**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**42 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C315	C3115	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	1120 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C315	C3115	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	1120 sf	Misc		X		Non ASB JCB#12-24910 TEM
C315	C3115	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	920 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C315	C3115	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C315	C3115	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	125 sf	Misc	NF	5	No Damage Observed	Assumed
C315	**C3115**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**120 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C316	C316	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	1120 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C316	C316	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	1120 sf	Misc		X		Non ASB JCB#12-24910 TEM
C316	C316	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	892 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C316	C316	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C316	C316	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C316	**C316**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**120 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C316A	C317 Storage	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	91 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C316A	C317 Storage	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	91 sf	Misc		X		Non ASB JCB#12-24910 TEM
C316A	C317 Storage	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	340 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C316A	C317 Storage	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C317	Stairwell	HM 35B/17B	Ceiling Gypsum Board/compound White	Ceiling Gypsum Board/compound	210 sf	Misc/Surf	F	5	No Damage Observed	Non ASB E&R Sample # D035-038
C317	Stairwell	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C317	Stairwell	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	420 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
C317	**Stairwell**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**70 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C318	C318	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C318	C318	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM
C318	C318	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	892 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C318	C318	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C318	C318	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C318	**C318**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**80 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C319	C319	HM 24/25	12 X 12 Floor Tile & Mastic Beige With Brown	12 X 12 Floor Tile & Mastic	840 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample #D001-D004
C319	C319	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	840 sf	Misc		X		Non ASB JCB#12-24910 TEM
C319	C319	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	892 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C319	C319	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	TSI	F	5	No Damage Observed	Assumed
C319	C319	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C319	C319	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	200 sf	Misc	NF	5	No Damage Observed	Assumed
C319	**C319**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**100 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C320	Girls' Bathroom C321	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	160 sf	Misc		X		Non ASB JCB#12-24910 TEM
C320	Girls' Bathroom C321	HM 19A/20A	Ceramic Floor Tile Grout & Glue Grey	Ceramic Floor Tile Grout & Glue	160 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D021, D022
C320	Girls' Bathroom C321	HM 19C/20C	Ceramic Wall Tile Grout & Glue Blue	Ceramic Wall Tile Grout & Glue	504 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
C320	Girls' Bathroom C321	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C320	Girls' Bathroom C321	HM 47B	Wall/chalk-board Mastic	Wall/chalk-board Mastic	12 sf	Misc	NF	5	No Damage Observed	Assumed
C320	**Girls' Bathroom C321**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**36 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C321	Boys' Bathroom	HM 43	2x4 Ceiling Tile Fissure	2x4 Ceiling Tile	288 sf	Misc		X		Non ASB JCB#12-24910 TEM
C321	Boys' Bathroom	HM 19A/20A	Ceramic Floor Tile Grout & Glue Grey	Ceramic Floor Tile Grout & Glue	288 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D021, D022

Space ID	Location Name	Homo No	Form2 Material	Form1 Material	Quantity	EBM Categ	Friability	RA Cat	Condition	Asbestos Content
C321	Boys' Bathroom	HM 19C/20C	Ceramic Wall Tile Grout & Glue Beige	Ceramic Wall Tile Grout & Glue	450 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
C321	Boys' Bathroom	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C321	**Boys' Bathroom**	**HM 53**	**Window Glazing/caulking**	**Window Glaze (Interior)**	**15 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C321A	Women's Bathroom C320	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	16 sf	Misc		X		Non ASB JCB#12-24910 TEM
C321A	Women's Bathroom C320	HM 19A/20A	Ceramic Floor Tile Grout & Glue Grey	Ceramic Floor Tile Grout & Glue	16 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D021, D022
C321A	Women's Bathroom C320	HM 19C/20C	Ceramic Wall Tile Grout & Glue Pink	Ceramic Wall Tile Grout & Glue	72 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
C321A	Women's Bathroom C320	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	72 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C321A	Women's Bathroom C320	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C322	Stairwell	HM 35B/17B	Ceiling Gypsum Board/compound White	Ceiling Gypsum Board/compound	190 sf	Misc/Surf	F	4	Water Stained	Non ASB E&R Sample # D035-038
C322	Stairwell	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	20 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C322	Stairwell	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	2 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C322	Stairwell	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	190 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
C322	**Stairwell**	**HM 53**	**Window Caulking**	**Window Glaze (Interior)**	**50 lf**	**Misc**	**NF**	**5**	**No Damage Observed**	**ACM - E&R Sample # D007-D008**
C322A	Mens Faculty Bathroom	HM 42	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	16 sf	Misc		X		Non ASB JCB#12-24910 TEM
C322A	Mens Faculty Bathroom	HM 19A/20A	Ceramic Floor Tile Grout & Glue Grey	Ceramic Floor Tile Grout & Glue	16 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D021, D022
C322A	Mens Faculty Bathroom	HM 19C/20C	Ceramic Wall Tile Grout & Glue Yellow	Ceramic Wall Tile Grout & Glue	64 sf	Surf	F/NF	5	No Damage Observed	Non ASB E&R Sample # D017-D020
C322A	Mens Faculty Bathroom	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	48 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C322A	Mens Faculty Bathroom	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C322B	C323 Custodial	HM 43	2x4 Ceiling Tile Speckled	2x4 Ceiling Tile	50 sf	Misc		X		Non ASB JCB#12-24910 TEM
C322B	C323 Custodial	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	252 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C322B	C323 Custodial	HM 46*	Fire Door Insulation Wood	Fire Door Insulation	1 Doors	Misc	F	5	No Damage Observed	Partially dismantled - No PACM obsevred
C322B	C323 Custodial	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	50 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016
C323	Hallway C	HM 43	2x4 Ceiling Tile Rough	2x4 Ceiling Tile	1680 sf	Misc		X		Non ASB JCB#12-24910 TEM
C323	Hallway C	HM 21/30	Concrete Block & Mortar	Concrete Block & Mortar	4200 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D009-012
C323	Hallway C	HM 27	Terrazzo Flooring White With Black	Terrazzo Flooring	1680 sf	Misc	NF	5	No Damage Observed	Non ASB E&R Sample # D015-016

SECTION 01 1090

RFI FORM

CONTRACTOR'S REQUEST FOR INFORMATION NO. _____ E&R RFI NO:_____

NAME OF PROJECT:

ROBERT C. DODSON SCHOOL – ROOF RENOVATIONS

NAME OF OWNER: Yonkers Public School District

DATE: _____

A/E PROJECT NO: Y22RD01

ARCHITECT/ENGINEER: Eisenbach & Ruhnke Engineering, P.C.
291 Genesee Street
Utica, New York 13501
315.735.1916 Fax: 315.735.6365

FROM (CO. NAME): _____
EMAIL/FAX NO. _____

CONTACT NAME: _____

SUBJECT: _____

DISCIPLINE/TRADE: _____

DWG./SPEC. REFERENCE: _____

QUESTION:

_____

_____

_____

_____

_____

ANSWER:

_____

_____

_____

ARCHITECT'S/ENGINEERS SIGNATURE: _____

DATE: _____

Note: review and any responses to this request for information by the architect/engineer is strictly for design intent only and does not constitute acknowledgement or acceptance of any cost or schedule implications unless specifically presented by the contractor. By submission of this request for information, the contractor assumes all responsibility in the absence of an approved change order or work directive.

END OF SECTION

SECTION 01 2100
ALLOWANCES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Contingency allowance.

B. Payment and modification procedures relating to allowances.

1.02 RELATED REQUIREMENTS

A. Section 01 2000 - Price and Payment Procedures: Additional payment and modification procedures.

1.03 CONTINGENCY ALLOWANCE

A. Contractor's costs for products, delivery, installation, labor, insurance, payroll, taxes, bonding, equipment rental, overhead and profit will be included in Change Orders authorizing expenditure of funds from this Contingency Allowance.

B. Funds will be drawn from the Contingency Allowance only by Change Order.

C. At closeout of Contract, funds remaining in Contingency Allowance will be credited to Owner by Change Order.

1.04 ALLOWANCES SCHEDULE

A. ROOFING
   1. ALLOWANCE
      a. Include an allowance for use according to the Owner' instructions
         Ten Thousand ($10,000) DOLLARS

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01 2200
UNIT PRICES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. List of unit prices, for use in preparing Bids.

B. Measurement and payment criteria applicable to Work performed under a unit price payment method.

1.02 COSTS INCLUDED

A. Unit Prices included on the Bid Form shall include full compensation for all required labor, products, tools, equipment, plant, transportation, services and incidentals; erection, application or installation of an item of the Work; overhead and profit.

1.03 UNIT QUANTITIES SPECIFIED

A. Quantities indicated in the Bid Form are for bidding and contract purposes only. Quantities and measurements of actual Work will determine the payment amount.

1.04 MEASUREMENT OF QUANTITIES

A. Measurement methods delineated in the individual specification sections complement the criteria of this section. In the event of conflict, the requirements of the individual specification section govern.

B. Assist by providing necessary equipment, workers, and survey personnel as required.

C. Measurement Devices:

1. Platform Scales: Of sufficient size and capacity to accommodate the conveying vehicle.

1.05 PAYMENT

A. Payment for Work governed by unit prices will be made on the basis of the actual measurements and quantities of Work that is incorporated in or made necessary by the Work and accepted by the Engineer, multiplied by the unit price.

1.06 SCHEDULE OF UNIT PRICES

A. Unit Price 1: Add/Deduct - 4” Cast Iron Roof Drain Piping

1. Include 100 Linear Feet in Base Bid, including required fittings
2. Unit of Measure: Per Linear Foot

B. Unit Price 2: Add/Deduct - Wall Repair, Block Walls

1. Include 100 Square Feet of wall repair in the Base Bid.
2. Unit of Measure: Per Square Foot

C. Unit Price 3: Add/Deduct - Lay in Ceiling Repair

1. Include 200 Square Feet of lay-in ceiling repair in the Base Bid.
2. Unit of Measure: Per Square Foot

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01 3000
ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Electronic document submittal service.

B. Preconstruction meeting.

C. Progress meetings.

D. Construction progress schedule.

E. Submittals for review, information, and project closeout.

F. Number of copies of submittals.

G. Submittal procedures.

1.02 RELATED REQUIREMENTS

A. Section 01 1000 - Summary of Contracts

B. Section 01 7000 - Execution and Closeout Requirements: Additional coordination requirements.

C. Section 01 7800 - Closeout Submittals: Project record documents.

1.03 PROJECT COORDINATION

A. Project Engineer: Eisenbach & Ruhnke Engineering, P.C.

B. During construction, coordinate use of site and facilities through the Owner.

C. Comply with the Contract Documents for procedures for intra-project communications; submittals, reports and records, schedules, coordination drawings, and recommendations; and resolution of ambiguities and conflicts.

D. Comply with instructions of the Owner for use of temporary utilities and construction facilities.

E. Coordinate field engineering and layout work under instructions of the Owner.

F. Make the following types of submittals to Engineer:
   1. Requests for interpretation.
   2. Requests for substitution.
   3. Shop drawings, product data, and samples.
   4. Test and inspection reports.
   5. Manufacturer's instructions and field reports.
   6. Applications for payment and change order requests.
   7. Progress schedules.
   8. Coordination drawings.
   9. Closeout submittals.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PRECONSTRUCTION MEETING

A. Eisenbach & Ruhnke Engineering, P.C. will schedule a meeting after Notice of Award.

B. Attendance Required:
   1. Yonkers Public School District.
   2. Engineer.
   3. Contractor.
   4. Construction Manager.

C. Agenda:
   1. Execution of Yonkers Public School District- Contractor Agreement.
   2. Submission of executed bonds and insurance certificates.

3. Distribution of Contract Documents.
4. Submission of list of Subcontractors, list of Products, schedule of values, and progress schedule.
5. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.
6. Scheduling.
7. Owner's requirements and occupancy prior to completion.
8. Location of Personnel and waste decontamination unit.
9. Location of dumpsters.

D. Eisenbach & Ruhnke Engineering, P.C. will record minutes and distribute copies within 5 days after meeting to participants. Contractor4 shall distribute all entities of the Contractor affected by decisions made.

3.02 SITE MOBILIZATION MEETING

A. Engineer will schedule a meeting at the Project site prior to Contractor occupancy.

B. Attendance Required:
1. Contractor.
2. Yonkers Public School District.
3. Engineer.
4. Contractor's Superintendent.
5. Major Subcontractors.

C. Agenda:
1. Use of premises by Yonkers Public School District and Contractor.
2. Yonkers Public School District's requirements and occupancy prior to completion.
3. Construction facilities and controls provided by Yonkers Public School District.
4. Temporary utilities provided by Yonkers Public School District.
5. Survey and building layout.
6. Security and housekeeping procedures.
7. Schedules.
8. Application for payment procedures.
9. Procedures for testing.
10. Procedures for maintaining record documents.
11. Requirements for start-up of equipment.
12. Inspection and acceptance of equipment put into service during construction period.

D. Eisenbach & Ruhnke Engineering, P.C. will record minutes and distribute copies within 5 days after meeting to participants. Contractor4 shall distribute all entities of the Contractor affected by decisions made.

3.03 PROGRESS MEETINGS

A. Schedule and administer meetings throughout progress of the Work at maximum monthly intervals.

B. Engineer will make arrangements for meetings, prepare agenda with copies for participants, preside at meetings.

C. Attendance Required: Job superintendent, major Subcontractors and suppliers, Yonkers Public School District, Engineer, as appropriate to agenda topics for each meeting.

D. Agenda:
1. Review minutes of previous meetings.
2. Review of Work progress.
3. Field observations, problems, and decisions.
4. Identification of problems that impede, or will impede, planned progress.
5. Review of submittals schedule and status of submittals.
6. Review of off-site fabrication and delivery schedules.
7. Maintenance of progress schedule.
8. Corrective measures to regain projected schedules.

9. Planned progress during succeeding work period.
10. Coordination of projected progress.
11. Maintenance of quality and work standards.
12. Effect of proposed changes on progress schedule and coordination.
13. Other business relating to Work.

E. Record minutes and distribute copies within two days after meeting to participants, with two copies to Engineer, Yonkers Public School District, participants, and those affected by decisions made.

3.04 CONSTRUCTION PROGRESS SCHEDULE

A. Within 10 days after date of the Agreement, submit preliminary schedule defining planned operations for the first 60 days of Work, with a general outline for remainder of Work.

B. If preliminary schedule requires revision after review, submit revised schedule within 10 days.

C. Within 20 days after review of preliminary schedule, submit draft of proposed complete schedule for review.
1. Include written certification that major contractors have reviewed and accepted proposed schedule.

D. Within 10 days after joint review, submit complete schedule.

E. Submit updated schedule with each Application for Payment.

3.05 SUBMITTALS FOR REVIEW

A. When the following are specified in individual sections, submit them for review:
1. Product data.
2. Shop drawings.
3. Samples for selection.
4. Samples for verification.

B. Submit to Engineer for review for the limited purpose of checking for conformance with information given and the design concept expressed in the contract documents.

C. The Engineer/Architect shall review and approve or take other appropriate action on the Contractor submittals, such as shop drawings, product data, samples and other data, which the Contractor is required to submit, but only for the limited purpose of checking for conformance with the design concept and the information shown in the Construction Documents. This review shall not include review of the accuracy or completeness of details, such as quantities, dimensions, weights or gauges, fabrication processes, construction means or methods, coordination of the work with other trades or construction safety precautions, all of which are the sole responsibility of the Contractor. The Engineer/Architect's review shall be conducted with reasonable promptness while allowing sufficient time in the Engineer/Architect's judgment to permit adequate review. Review of a specific item shall not indicate that the Engineer/Architect has reviewed the entire assembly of which the item is a component. The Engineer/Architect shall not be responsible for any deviations from the Construction Documents not brought to the attention of the Engineer/Architect, in writing, by the Contractor. The Engineer/Architect shall not be required to review partial submissions or those for which submissions of correlated items have not been received.

D. Initial Review: Allow 20 working days for initial review of each submittal. Allow additional time if processing must be delayed to permit coordination with subsequent submittals. Engineer/Architect will advise Contractor when a submittal being processed must be delayed for coordination.

E. Allow 15 working days for processing each re-submittal.

F. Engineer/Architect will review the original submittal and one (1) re-submittal. Additional reviews will be additional services provided to the Owner and charged accordingly. The Owner will back charge the contractor accordingly

G. Deviations: Highlight, encircle, or otherwise identify deviations from the Contract Documents on submittals.

H. Engineer/Architect will review the original submittal and one (1) re-submittal. Additional reviews will be additional services provided to the Owner and charged accordingly. The Owner will back charge the contractor accordingly.

I. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing.

J. Marking or comments on shop drawings shall not be construed as relieving the Contractor from compliance with the contract project plans and specifications, nor departure therefrom. The contractor remains responsible for details and accuracy for conforming and correlating all quantities, verifying all dimensions, for selecting fabrication processes, for techniques of assembly and for performing their work satisfactorily and in a safe manner.

K. Samples will be reviewed only for aesthetic, color, or finish selection.

L. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article below and for record documents purposes described in Section 01 78 00 - CLOSEOUT SUBMITTALS.

3.06 SUBMITTALS FOR INFORMATION

A. When the following are specified in individual sections, submit them for information:
   1. Design data.
   2. Certificates.
   3. Test reports.
   4. Inspection reports.
   5. Manufacturer's instructions.
   6. Manufacturer's field reports.
   7. Other types indicated.

B. Submit for Engineer's knowledge as contract administrator or for Yonkers Public School District. No action will be taken.

3.07 SUBMITTALS FOR PROJECT CLOSEOUT

A. When the following are specified in individual sections, submit them at project closeout:
   1. Project record documents.
   2. Operation and maintenance data.
   3. Warranties.
   4. Bonds.
   5. Other types as indicated.

B. Submit for Yonkers Public School District's benefit during and after project completion.

3.08 NUMBER OF COPIES OF SUBMITTALS

A. Documents: Submit one electronic copy in PDF format; an electronically-marked up file will be returned. Create PDFs at native size and right-side up; illegible files will be rejected.

B. Samples: Submit the number specified in individual specification sections; one of which will be retained by Engineer.
   1. After review, produce duplicates.
   2. Approved sample will be retained at the project site.
   3. Retained samples will not be returned to Contractor unless specifically so stated.

3.09 SUBMITTAL PROCEDURES

A. Transmit each submittal with approved form.

B. Shop drawings are the product and the property of the Contractor. The Owner, Owner's Representative, or Architect shall not be responsible for the contractor's construction means, methods or techniques: safety precautions or programs; Acts or admissions; or failure to carry out the work in accordance to the contract documents.

C. Sequentially number the transmittal form. Revise submittals with original number and a sequential alphabetic suffix.

D. Identify Project, Contractor, Subcontractor or supplier, pertinent drawing and detail number, and specification section number, as appropriate on each copy.

E. Apply Contractor's stamp, signed or initialed certifying that review, approval, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with the requirements of the Work and Contract Documents.
   1. Contractor's submittal of shop drawings certifies that the contractor has reviewed and coordinated this shop drawing and they are in conformance to the plans, specifications, applicable codes and other provisions of the Contract Documents.

F. Schedule submittals to expedite the Project, and coordinate submission of related items.

G. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.

H. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.

I. Provide space for Contractor and Engineer review stamps.

J. When revised for resubmission, identify all changes made since previous submission.

K. Distribute reviewed submittals as appropriate. Instruct parties to promptly report any inability to comply with requirements.

L. Submittals not requested will not be recognized or processed.

3.10 ENGINEER'S/ARCHITECTS ACTION

A. General: Engineer will not review submittals that do not bear Contractor's approval stamp and will return them without action.

B. General: Except for submittals for the record and similar purposes, where action and return on submittals is required or requested, the Architect/Engineer will review each submittal, mark with appropriate "Action".

C. Action Submittals: Engineer/Architect will review each submittal, make marks to indicate corrections or modifications required, and return it. Engineer/Architect will stamp each submittal with an action stamp and will mark stamp appropriately to indicate action taken, as follows:

D. Final Unrestricted Release: Where the submittals are marked as follows, the work covered by the submittal may proceed provided it complies with the requirements of the contract documents; acceptance of the work will depend upon that compliance.
   1. Marking: "No Exceptions Taken"

E. Final-But-Restricted Release: When the submittals are marked as follows, the work covered by the submittal may proceed provided it complies with both the Engineer's/Architect's notations or corrections on the submittal and with the requirements of the contract documents; acceptance of the work will depend on that compliance.
   1. Markings: "Make Correction Noted"

F. Returned for re-submittal: When the When the submittal is marked as follows, do not proceed with the work covered by the submittal, including purchasing fabrication, delivery or other activity. Revise the submittal or prepare a new submittal in accordance with the Engineer's/Architect's notations stating the reasons for returning the submittal; resubmit the submittal without delay. Repeat if necessary to obtain a different action marking. Do not permit submittals with the following marking to be used at the project site, or elsewhere where work is in progress.
   1. Marking: "Revise and Resubmit"

G. Marking: "Rejected"

H. Other Action: Where the submittal is returned, marked with the Engineer's/Architect's explanation, for special processing or other Contractor activity, or is primarily for information or record purposes, the submittal will not be marked.

END OF SECTION

SECTION 01 3216
CONSTRUCTION PROGRESS SCHEDULE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Preliminary schedule.

B. Construction progress schedule, bar chart type.

1.02 RELATED SECTIONS

A. Section 01 1000 - Summary of Contracts: Work sequence.

1.03 REFERENCES

A. AGC (CPSM) - Construction Planning and Scheduling Manual; Associated General Contractors of America; 2004.

1.04 SUBMITTALS

A. Within 10 days after date of Agreement, submit preliminary schedule defining planned operations for the first 60 days of Work, with a general outline for remainder of Work.

B. If preliminary schedule requires revision after review, submit revised schedule within 10 days.

C. Within 5 days after review of preliminary schedule, submit draft of proposed complete schedule for review.

D. Within 10 days after joint review, submit complete schedule.

E. Submit updated schedule with each Application for Payment.

F. Submit under transmittal letter form specified in Section 01 3000.

G. The Contractor is hereby notified that payment requisitions will not be processed by the Engineering and Owner's representative nor paid by the Owner until all schedules are reviewed and approved by the Contractor and the Engineer and Owner's Representative.

1.05 QUALITY ASSURANCE

A. Scheduler: Contractor's personnel or specialist Consultant specializing in CPM scheduling with one year’s minimum experience in scheduling construction work of a complexity comparable to this Project, and having use of computer facilities capable of delivering a detailed graphic printout within 48 hours of request.

B. Contractor's Administrative Personnel: 3 years minimum experience in using and monitoring CPM schedules on comparable projects.

1.06 SCHEDULE FORMAT

A. Listings: In chronological order according to the start date for each activity. Identify each activity with the applicable specification section number.

B. Submit schedule in electronic PDF format.

C. Diagram Sheet Size: Maximum 22 x 17 inches or width required.

D. Scale and Spacing: To allow for notations and revisions.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PRELIMINARY SCHEDULE

A. Prepare preliminary schedule in the form of a horizontal bar chart.

3.02 CONTENT

A. Show complete sequence of construction by activity, with dates for beginning and completion of each element of construction.

B. Identify each item by specification section number.

C. Show accumulated percentage of completion of each item, and total percentage of Work completed, as of the first day of each month.

D. Provide legend for symbols and abbreviations used.

3.03 BAR CHARTS

A. Include a separate bar for each major portion of Work or operation.

B. Identify the first work day of each week.

3.04 REVIEW AND EVALUATION OF SCHEDULE

A. Participate in joint review and evaluation of schedule with Engineer at each submittal.

B. Evaluate project status to determine work behind schedule and work ahead of schedule.

C. After review, revise as necessary as result of review, and resubmit within 10 days.

3.05 UPDATING SCHEDULE

A. Maintain schedules to record actual start and finish dates of completed activities.

B. Indicate progress of each activity to date of revision, with projected completion date of each activity.

C. Annotate diagrams to graphically depict current status of Work.

D. Identify activities modified since previous submittal, major changes in Work, and other identifiable changes.

E. Indicate changes required to maintain Date of Substantial Completion.

F. Submit reports required to support recommended changes.

3.06 DISTRIBUTION OF SCHEDULE

A. Distribute copies of updated schedules to Contractor's project site file, to Subcontractors, suppliers, Engineer, Yonkers Public School District, and other concerned parties.

B. Instruct recipients to promptly report, in writing, problems anticipated by projections shown in schedules.

END OF SECTION

SECTION 01 3300
SED SPECIAL REQUIREMENTS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

A. This Section specifies special requirements of State Education Department, including Commissioner's Regulation Part 155.5, 155.7
   1. Copies of Commissioner's Regulation Part 155.5, 155.7 are available on the State Education Department's web site.

1.03 CERTIFICATE OF OCCUPANCY

A. The occupied portion of any school building shall always comply with the minimum requirements necessary to maintain a Certificate of Occupancy.

1.04 GENERAL SAFETY AND SECURITY DURING CONSTRUCTION

A. All construction materials shall be stored in a safe and secure manner.
   1. Fences around construction supplies or debris shall be maintained.
   2. Gates shall always be locked unless a worker is in attendance, to prevent unauthorized entry.
   3. During exterior renovation work, overhead protection shall be provided for any sidewalks or areas immediately beneath the work site or such areas shall be fenced off and provided with warning signs to prevent entry.
   4. Workers shall be required to wear photo-identification badges at all times for identification and security purposes while working at occupied sites.

1.05 SEPARATION OF CONSTRUCTION

A. Separation of construction areas from occupied spaces. Construction areas that are under the control of a contractor and therefore not occupied by district staff or students shall be separated from occupied areas. Provisions shall be made to prevent the passage of dust and contaminants into occupied parts of the building. Periodic inspection and repairs of the containment barriers must be made to prevent exposure to dust or contaminants. Metal stud and gypsum board (Type X) must be used in exit ways or other areas that require fire rated separation. Heavy duty plastic sheeting may be used only for a vapor, fine dust or air infiltration barrier, and shall not be used to separate occupied spaces from construction areas.
   1. A specific stairwell and/or elevator may be assigned for construction worker use during work hours, when approved by the Owner. Workers may not use corridors, stairs or elevators designated for students or school staff.
      a. Large amounts of debris must be removed by using enclosed chutes or a similar sealed system. There shall be no movement of debris through halls of occupied spaces of the building. No material shall be dropped or thrown outside the walls of the building.
      b. All occupied parts of the building affected by renovation activity shall be cleaned at the close of each work day. School buildings occupied during a construction project shall maintain required health, safety and educational capabilities at all times that classes are in session.

1.06 FIRE PREVENTION

A. There is no smoking on school property for fire prevention and New York State Law.

B. Any holes in floors or walls shall be sealed with a fire resistant material.

C. Contractor shall maintain existing fire extinguishers.

D. Fire alarm and smoke detection systems shall remain in operation at all times.

1.07 CONSTRUCTION DIRECTIVES

A. Construction Noise. Construction and maintenance operations shall not produce noise in excess of 60 dba in occupied spaces or shall be scheduled for times when the building or affected building spaces are not occupied or acoustical abatement measures shall be taken.

1. Construction Fume Control: Each Contractor shall be responsible for the control of chemical fumes, gases, and other contaminates produced by welding, gasoline or diesel engines, roofing, paving, painting, etc. to ensure they do not enter occupied portions of the building or air intakes.
2. Off-Gassing Control. Each Contractor shall be responsible to ensure that activities and materials which result in "off-gassing" of volatile organic compounds such as glues, paints, furniture, carpeting, wall covering, drapery, etc., are scheduled, cured or ventilated in accordance with manufacturer's recommendations before a space can be occupied.

1.08 ASBESTOS

A. Asbestos/Lead Test Asbestos Letter. Indication that all school areas to be disturbed during renovation or demolition have been or will be tested for lead and asbestos.

B. Asbestos Code Rule 56. Large and small asbestos abatement projects as defined by 8 NYCRR 155.5(k) shall not be performed while the building is occupied. Note: It is SED's interpretation that the term "building" as referenced in this section, means a wing or major section of a building that can be completely isolated from the rest of the building with sealed noncombustible construction. The isolated portions (the occupied portion and the portion under construction) of the building must contain separate code compliant exits. The ventilation systems must be physically separated and sealed at the isolation barrier(s).
   1. Asbestos TEM. The asbestos abatement area shall be completely sealed off from the rest of the building and completely cleaned and tested by TEM prior to re-entry by the public.
   2. Lead Abatement Projects. A project that contains materials identified to be disturbed which tests positive for lead shall include that information in the Construction Documents. The Construction Documents must address the availability of lead testing data for the building and include a statement that the OSHA regulations be followed, and that cleanup and testing be done by HUD protocol.

1.09 VENTILATION

A. The work, as scheduled in the existing building, is to be performed when the facility is unoccupied. In the event that work is required to be performed during times when the building is occupied, all existing ventilation system between areas of work and areas of occupancy shall be disconnected, separated and code complying ventilation requirements be provided the occupied area. Prior to such work commencing the contractor shall submit a plan, for review indicating procedure to be taken. Also see paragraph 1.5 above for additional requirements."

1.10 ELECTRICAL CERTIFICATION:

A. The Contractor shall obtain UL Certification or Inspection from a Certified Electrical Organization for electrical installation if applicable.

1.11 EXITING

A. Exiting: Work will be performed when school is not in session or after school hours. All exiting will be clear and usable at all times.

B. All exits shall be clear and usable at all times.

C. All modifications or changes to the exiting plan shall be approved by the Architect.

1.12 CONSTRUCTION WORKER IN OCCUPIED AREAS

A. No worker shall be permitted in areas occupied by students. If access is required by the contractor's personnel, they will be supervised by District personnel. Contractor shall provide 24 hour notice to the Owner when such access will be required.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

SECTION 01 3323

SHOP DRAWINGS, SUBMITTALS, PRODUCT DATA, AND SAMPLES

PART 1 - GENERAL

1.01 DESCRIPTION

A. Related Requirements Specified Elsewhere
   1. Section 01 3000 - Administrative Requirements
   2. Section 01 7800 - Closeout Submittals

B. Submit, to the Engineer, shop drawings, product data, and samples required by the specification sections.

C. Attached is Submittal Cover Sheet that is to be filled out and returned to the Engineer (Section 01 3323.01) with each submittal.

D. Make submittals to allow for checking, re-submittal, and rechecking, if required, without causing delay of the Construction Schedule.

1.02 PRODUCT DATA

A. Manufacturer's catalog sheets, brochures, diagrams, schedules, performance charts, and other standard descriptive data.
   1. Modify product data to delete information that is not applicable to project.
   2. Supplement standard to provide additional information applicable to project.
   3. Clearly mark each copy to identify applicable materials, products, or models.
   4. Show dimensions and clearances required.
   5. Show performance characteristics and capacities.
   6. Show wiring or piping diagrams and controls.

1.03 CONTRACTOR RESPONSIBILITIES

A. Review, approve, stamp, and sign shop drawings, submittals, product data, and samples prior to submission to Engineer.

B. Verify:
   1. Field measurements.
   2. Field construction criteria.
   3. Catalog numbers and other data.

C. Coordinate each submittal with requirements of Work and Contract Documents.

D. Contractor's responsibility for errors and omissions in submittals is not relieved by Engineer's review of submittals.

E. Contractor's responsibility for deviations in submittals from requirements of Contract Documents is not relieved by Engineer's review of submittals unless Engineer gives written acceptance of the specific deviations.

F. Notify Engineer in writing, at time of submission, of deviations in submittals from requirements of Contract Documents.

G. After Engineer's review, Contractor is to distribute copies of submittals to parties requiring same for co-ordination of work.

H. Make required copies for distribution of shop drawings and product data that have been stamped and signed by the Engineer.

1.04 SUBMISSION REQUIREMENTS

A. Submit number of copies of product data that will be required for distribution plus one copy that will be retained by Engineer.

B. Accompany submittal with transmittal letter, containing:
   1. Date.
   2. Engineer's project title and number.

3. Contractor's name and address.
4. Notification of deviations from Contract Documents.
5. Additional pertinent data.

C. Submittals shall include:
1. Date and revision dates.
2. Engineer's project title and number.
3. The names of:
a. Engineer.
b. Contractor.
c. Subcontractor.
d. Supplier.
e. Manufacturer.
4. Identification of product.
5. Relation to adjacent structure or materials.
6. Field dimensions, clearly identified as such.
7. Technical Specification section number.
8. Applicable standards.
9. A blank space, 4 x 4 inches, for the Engineer's stamp.
10. Identification of deviations from Contract Documents.
11. Contractor's stamp, initialed or signed, certifying to review of submittal, verification of field measurements, and compliance with Contract Documents.
a. Submittals without Contractor's stamp will be returned without being reviewed.

D. Shop Drawing Submittal Cover Sheet
1. Attach submittal cover sheet, with all blanks filled in for each shop drawing, product data, and sample.

1.05 RESUBMISSION REQUIREMENTS

A. Product Data and Samples: Submit new data and samples as required for initial submittal.

1.06 CONTRACTOR'S DISTRIBUTION OF SUBMITTALS

A. Distribute copies of shop drawings and product data that carry the Engineer stamp to:
1. Contractor's file.
2. Job site file.
3. Record Document file.
4. Construction Manager.
5. Owner

B. Distribute samples as directed by Engineer.

1.07 ENGINEER

A. Stamp and initial or sign certifying to review of submittal.

B. Explanation of Engineer's Stamp:
1. NO EXCEPTION TAKEN: No corrections, no marks.
2. MAKE CORRECTIONS NOTED: Minor amount of corrections; all items can be fabricated at Contractor's risk without further correction; checking is complete and all corrections are obvious without ambiguity.
3. REVISE AND RESUBMIT: Minor amount of corrections; noted items must not be fabricated without further correction; checking is not complete; details of items noted by checker are to be further clarified; items not noted to be corrected can be fabricated at Contractor's risk under this stamp.
4. REJECTED: Drawings are rejected as not in accordance with the Contract, too many corrections, or other justifiable reason. The drawing must be corrected and resubmitted. No items are to be fabricated under this stamp.
5. SUBMIT SPECIFIED ITEM: Item is not as specified. Submit named manufacturer.

C. Return submittals to Contractor for distribution.

1.08 SUBMITTALS REQUIRED FOR REVIEW

A. The following is the Submittal Cover Sheet for the required submittals. Contractor is responsible for reviewing each section to determine required submittals.

END OF SECTION

SUBMITTAL COVER SHEET

EISENBACH & RUHNKE ENGINEERING, P.C.
291 Genesee St., Utica, NY 13501 315-735-1916

The Contractor shall fill out lines 1 through 7 below and staple this cover sheet to submitted product data sheet, sample, shop drawing, or other items submitted to the Architect/Engineer. Each submittal shall have its own Submittal Cover Sheet.

Project Name:	Yonkers Public Schools Robert C. Dodson School Roof Renovations	**Contractor:**	
E&R Project No.:	Y22RD01 YPS#10944	Project Manager:	
		Address:	
		Phone:	
Architect/Engineer:	Eisenbach and Ruhnke Engineering, P.C.	**Owner:**	Yonkers Public Schools One Larkin Center Yonkers, NY 10701
Project Manager:	Jack Eisenbach		
Address:	291 Genesee Street Utica, NY 13501		
Phone:	315-735-1916		

---

1. Date: _____
2. Submittal Number:_____
3. Submitted Item: _____
4. Manufacturer: _____
5. Person Submitting: _____
6. Spec. Location: Section _____ Article _____ Paragraph _____ Subparagraph _____
7. And/Or Drawing Number: _____

   Architect/Engineer's Notes: _____

_____

_____

_____

_____

_____

Contractor's Stamp

Architect/Engineer's Stamp

- ☐ No exception taken.
- ☐ Make Corrections Noted. Do not resubmit. See Notes above.
- ☐ Submit Specified Item. Resubmit. See Notes above.
- ☐ Revise and Resubmit. Resubmit. See Notes above.
- ☐ Rejected. See Notes above.

Checking of submittals is only for general conformance with the design concept of the Project and general compliance with the information given in Contract Documents. Any action shown is subject to the requirements of the Drawings and Specifications. Contractor is responsible for dimensions to be confirmed and correlated at the job site, quantities, information that pertains solely to the fabrication processes or to techniques of construction, coordination of the work of all trades, and the satisfactory performance of his work.

By: _____ Date: _____
EISENBACH & RUHNKE ENGINEERING

SECTION 01 3553
SECURITY PROCEDURES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Security measures including formal security program, entry control, personnel identification, and miscellaneous restrictions.

1.02 RELATED REQUIREMENTS

A. Section 01 1000 - Summary: use of premises and occupancy.

B. Section 01 5000 - Temporary Facilities and Controls: Temporary lighting.

1.03 SECURITY PROGRAM

A. Protect Work, existing premises and Owner's operations from theft, vandalism, and unauthorized entry.

B. Initiate program at project mobilization.

C. Maintain program throughout construction period until Owner occupancy.

1.04 ENTRY CONTROL

A. Restrict entrance of persons and vehicles into Project site and existing facilities.

B. Allow entrance only to authorized persons with proper identification.

C. Maintain log of workers and visitors, make available to Owner on request.

D. Coordinate access of Owner's personnel to site in coordination with Owner's security forces.

1.05 PERSONNEL IDENTIFICATION

A. Provide identification badge to each person authorized to enter premises.

B. Badge To Include: Personal photograph, name, assigned number, expiration date and employer.

C. Require return of badges at expiration of their employment on the Work.

1.06 RESTRICTIONS

A. Do not allow cameras on site or photographs taken except by written approval of Owner.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01 4000

QUALITY REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Submittals.

B. References and standards.

C. Testing and inspection agencies and services.

D. Control of installation.

E. Manufacturers' field services.

F. Defect Assessment.

1.02 RELATED REQUIREMENTS

A. Section 01 3000 - Administrative Requirements: Submittal procedures.

B. Section 01 4216 - Definitions.

C. Section 01 6000 - Product Requirements: Requirements for material and product quality.

1.03 REFERENCE STANDARDS

A. ASTM C1021 - Standard Practice for Laboratories Engaged in Testing of Building Sealants; 2008 (Reapproved 2014).

B. ASTM C1077 - Standard Practice for Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Laboratory Evaluation; 2014.

C. ASTM C1093 - Standard Practice for Accreditation of Testing Agencies for Masonry; 2013.

D. ASTM D3740 - Standard Practice for Minimum Requirements for Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction; 2012a.

E. ASTM E329 - Standard Specification for Agencies Engaged in Construction Inspection and/or Testing; 2014a.

F. ASTM E543 - Standard Specification for Agencies Performing Nondestructive Testing; 2013.

1.03A CONFLICTING REQUIREMENTS

A. Referenced Standards: If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer conflicting requirements that are different, but apparently equal, to Engineer for a decision before proceeding.

B. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements. Refer uncertainties to Engineer for a decision before proceeding

1.04 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

B. Design Data: Submit for Engineer's knowledge and action as contract administrator for the limited purpose of assessing conformance with information given and the design concept expressed in the contract documents, or for Owner's information.
   1. Include required product data and shop drawings.

C. Test Reports: After each test/inspection, promptly submit two copies of report to Engineer and to Contractor.
   1. Include:
      a. Date issued.
      b. Project title and number.

c. Name of inspector.
d. Date and time of sampling or inspection.
e. Identification of product and specifications section.
f. Location in the Project.
g. Type of test/inspection.
h. Date of test/inspection.
i. Results of test/inspection.
j. Conformance with Contract Documents.
k. When requested by Engineer, provide interpretation of results.

2. Test report submittals are for Engineer's knowledge as construction contract administrator for the limited purpose of assessing conformance with information given and the design concept expressed in the contract documents, or for Owner's information.

D. Certificates: When specified in individual specification sections, submit certification by the manufacturer and Contractor or installation/application subcontractor to Engineer, in quantities specified for Product Data.
1. Indicate material or product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.
2. Certificates may be recent or previous test results on material or product, but must be acceptable to Engineer.

E. Manufacturer's Instructions: When specified in individual specification sections, submit printed instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, for the Owner's information. Indicate special procedures, perimeter conditions requiring special attention, and special environmental criteria required for application or installation.

F. Manufacturer's Field Reports: Submit reports for Engineer's benefit as contract administrator or for Owner.
1. Submit for information for the limited purpose of assessing conformance with information given and the design concept expressed in the Contract Documents.

G. Erection Drawings: Submit drawings for Engineer's benefit as contract administrator or for Owner.
1. Submit for information for the limited purpose of assessing conformance with information given and the design concept expressed in the contract documents.
2. Data indicating inappropriate or unacceptable Work may be subject to action by Engineer or Owner.

1.05 REFERENCES AND STANDARDS

A. Conform to reference standard of date of issue current on date of Contract Documents, except where a specific date is established by applicable code.

B. Obtain copies of standards where required by product specification sections.

C. Maintain copy at project site during submittals, planning, and progress of the specific work, until Substantial Completion.

1.06 TESTING AND INSPECTION AGENCIES AND SERVICES

A. Employment of agency in no way relieves Contractor of obligation to perform Work in accordance with requirements of Contract Documents.

B. Contractor Employed Agency:
1. Inspection agency: Comply with requirements of ASTM D3740 and ASTM E329.
2. Laboratory: Authorized to operate in the State in which the Project is located.
3. Testing Equipment: Calibrated at reasonable intervals either by NIST or using an NIST established Measurement Assurance Program, under a laboratory measurement quality assurance program.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 CONTROL OF INSTALLATION

A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of specified quality.

B. Comply with manufacturers' instructions, including each step in sequence.

C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Engineer before proceeding.

D. Comply with specified standards as minimum quality for the work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.

E. Have work performed by persons qualified to produce required and specified quality.

F. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.

G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and disfigurement.

3.02 TESTING AND INSPECTION

A. Testing Agency Duties:
   1. Provide qualified personnel at site. Cooperate with Engineer and Contractor in performance of services.
   2. Perform specified sampling and testing of products in accordance with specified standards.
   3. Ascertain compliance of materials and mixes with requirements of Contract Documents.
   4. Promptly notify Engineer and Contractor of observed irregularities or non-conformance of Work or products.
   5. Perform additional tests and inspections required by Engineer.
   6. Submit reports of all tests/inspections specified.

B. Limits on Testing/Inspection Agency Authority:
   1. Agency may not release, revoke, alter, or enlarge on requirements of Contract Documents.
   2. Agency may not approve or accept any portion of the Work.
   3. Agency may not assume any duties of Contractor.
   4. Agency has no authority to stop the Work.

C. Contractor Responsibilities:
   1. Deliver to agency at designated location, adequate samples of materials proposed to be used that require testing, along with proposed mix designs.
   2. Cooperate with laboratory personnel, and provide access to the Work and to manufacturers' facilities.
   3. Provide incidental labor and facilities:
      a. To provide access to Work to be tested/inspected.
      b. To obtain and handle samples at the site or at source of Products to be tested/inspected.
      c. To facilitate tests/inspections.
      d. To provide storage and curing of test samples.
   4. Notify Engineer and laboratory 24 hours prior to expected time for operations requiring testing/inspection services.
   5. Employ services of an independent qualified testing laboratory and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.
   6. Arrange with Owner's agency and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.

D. Re-testing required because of non-conformance to specified requirements shall be performed by the same agency on instructions by Engineer.

E. Re-testing required because of non-conformance to specified requirements shall be paid for by Contractor.

3.03 MANUFACTURERS' FIELD SERVICES

A. When specified in individual specification sections, require material or product suppliers or manufacturers to provide qualified staff personnel to observe site conditions, conditions of surfaces and installation, quality of workmanship, start-up of equipment, test, adjust, and balance equipment as applicable, and to initiate instructions when necessary.

B. Report observations and site decisions or instructions given to applicators or installers that are supplemental or contrary to manufacturers' written instructions.

3.04 DEFECT ASSESSMENT

A. Replace work or portions of the work not conforming to specified requirements.

END OF SECTION

SECTION 01 4100
REGULATORY REQUIREMENTS

PART 1 GENERAL

1.01 SUMMARY

A. Regulatory requirements applicable to this project are the following:

B. 29 CFR 1910 - Occupational Safety and Health Standards; current edition; as a workplace.

C. NFPA 101 - Life Safety Code, 2012.

D. CODES, PERMITS, FEES, ETC.

1. The Contractor shall furnish and pay for all permits, fees and other installation costs required for the various installations by governing authorities and utility companies: prepare and file drawings and diagrams required; arrange for inspections of any and all parts of the work required by the authorities and furnish all certificates necessary to the Engineer, Owner and Construction Manager as evidence that the work installed under this Section of the Specifications conforms with all applicable requirements of the Municipal and State Codes, National Board of Fire Underwriters, National Electric Code.
2. Any items of work specified herein and shown on the drawings which conflict with aforementioned rules, regulations and requirements, shall be referred to the Engineer, Owner, and Construction Manager for decision, which decision shall be final and binding.
3. The building is to be constructed under the following Rules and Regulations of the New York State Uniform Fire and Building Codes known as the "Building Codes of the State of New York" and consist of the following:
    a. Building Code of New York State
    b. State Education Department Planning Standards, including Commissioner's Regulation Part 155.5, 155.7
    c. Energy Conservation Construction Code of New York State
    d. Fire Code of New York State
    e. Fuel Gas Code of New York State
    f. Mechanical Code of New York State
    g. Plumbing Code of New York State
4. Classification of Construction: Type IIIA
5. Occupancy Classification: Education E
6. Electrical Certification: The Contractor shall obtain UL Certifiication or Inspection from a Certified Electrical Organization for electrical installation.
7. State Education Department: Planning Standards is applicable to the work. Any conflicts between the Building Codes of New York and the State Education Department Planning Standards, the most restrictive shall apply. Copies of the Planning standards are available at the SED web site.

E. OSHA Part 1926 Safety and Health Regulations for Construction.

1.02 MANDATORY OSHA CONSTRUCTION SAFETY AND HEALTH TRAINING

A. Effective July 18, 2008 - Pursuant to NYS Labor Law §220-h - On all public work projects of at least $250,000 all laborers, workers and mechanics working on the site are required to be certified as having successfully completed an OSHA construction safety and health course of at least 10 hours prior to performing any work on the project.

1.03 QUALITY ASSURANCE

A. Designer Qualifications: Where delegated engineering design is to be performed under the construction contract, provide the direct supervision of a Professional Engineer experienced in design of this type of work and licensed in New York State.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01 5000

TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

EACH PRIME CONTRACTOR IS RESPONSIBLE FOR THE REQUIREMENTS IN THIS SECTION UNLESS OTHERWISE NOTED.

1.01 SECTION INCLUDES

A. Temporary sanitary facilities.

B. Temporary Controls: Barriers, enclosures, and fencing.

C. Security requirements.

D. Vehicular access and parking.

E. Waste removal facilities and services.

F. Project identification sign.

1.02 PROJECT IDENTIFICATION

A. Provide project identification sign of design and construction indicated on drawings.

B. Erect on site at location indicated.

C. No other signs are allowed without Owner permission except those required by law.

1.03 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

A. Remove temporary utilities, equipment, facilities, materials, prior to Date of Substantial Completion inspection.

B. Clean and repair damage caused by installation or use of temporary work.

C. Restore existing facilities used during construction to original condition.

1.04 QUALITY ASSURANCE

A. Regulations: Each contractor shall comply with industry standards and with applicable laws and regulations of authorities having jurisdiction including, but not limited to, the following:
   1. Building code requirements.
   2. Health and safety regulations.
   3. Utility company regulations.
   4. Police, fire department and rescue squad rules.
   5. Environmental protection regulations

B. Standards: Each contractor shall comply with NFPA 241 "Standard for Safeguarding Construction, Alterations, and Demolition Operations," ANSI-A10 Series standards for "Safety Requirements for Construction and Demolition," and NECA Electrical Design Library "Temporary Electrical Facilities."

1.05 PROJECT CONDITIONS

A. General: Each contractor shall provide each temporary service and facility ready for use at each location, when first needed to avoid delays in performance of work. Maintain, expand as required, and modify as needed throughout the progress of the work. Do not remove until services or facilities are no longer needed or are replaced by the authorized use of completed permanent facilities.
   1. With the establishment of the job progress schedule, each contractor shall establish a schedule for implementation and termination of service for each temporary utility. At the earliest feasible time, and when acceptable to the Owner's representative and Engineer, change over from use of temporary utility service to use of the permanent service, to enable removal of temporary utilities and to eliminate possible interference with completion of the Work.

B. Conditions of Use: Operate temporary services and facilities in a safe and efficient manner. Do not overload, and do not permit temporary services and facilities to interfere with the progress of work, or occupancy of existing facility by owner. Do not allow unsanitary conditions, public nuisances, or hazardous conditions to develop or persist on the site.

C. Temporary Construction and Support Facilities: Maintain temporary facilities in a manner to prevent discomfort to users. Take necessary fire prevention measures. Maintain temporary facilities in a sanitary manner so as to avoid health problems.

D. Security and Protection: Maintain site security and protection facilities in a safe, lawful, publicly acceptable manner. Take measures necessary to prevent site erosion.

1.06 TEMPORARY UTILITIES

A. Yonkers Public Schools will provide the following:
   1. Electrical power and metering, consisting of connection to existing facilities.
   2. Water supply, consisting of connection to existing facilities.

B. Provide and pay for all electrical power, lighting, water, heating and cooling, and ventilation required for construction purposes.

C. Existing facilities may be used.

D. New permanent facilities may be used.

E. Use trigger-operated nozzles for water hoses, to avoid waste of water.

1.07 DIVISION OF RESPONSIBILITIES

A. The contractor is responsible for the following:
   1. Installation, operation, maintenance, and removal of each temporary facility usually considered as its own normal construction activity, as well as the costs and use charges associated with each facility.
   2. Plug-in electric power cords and extension cords.
   3. Supplementary plug-in task lighting and special lighting necessary exclusively for its own activities.
   4. Special power requirements for installation of its own work such as welding or temporary elevator power.
   5. Its own field office complete with necessary furniture and utilities, and telephone service.
   6. Its own storage and fabrication sheds.
   7. All hoisting and scaffolding for its own work.
   8. Collection and disposal of its own hazardous, dangerous, unsanitary, or other harmful waste material.
   9. Collection and disposal of major equipment removed such as boilers, unit ventilators, and heaters.
   10. Collection of general waste and debris and disposing into containers provided by the General Construction.
   11. Secure lockup of its own tools, materials and equipment.
   12. Construction aids and miscellaneous services and facilities necessary exclusively for its own construction activities.
   13. Temporary toilets, including disposable supplies.
   14. Temporary wash facilities, including disposable supplies.
   15. Containerized bottled-water drinking-water units.
   16. First Aid Station and Supplies.
   17. Containers for non-hazardous waste and debris.
   18. Disposal of wastes containers.
   19. Barricades, warning signs, and lights.
   20. Temporary dust control.

B. Water Service: The General Contractor shall provide and pay all costs for all contractors to install distribution piping of sizes and pressures adequate for construction.
   1. Provide backflow devices to prevent water from re-entering the potable system.
   2. Maintain hose connections and outlet valves in leak-proof condition. Where finish work below an outlet might be damaged by spillage or leakage, provide a drip pan of suitable size to minimize the possibility of water damage. Drain water promptly from drip pans as it accumulates.

3. Maintaining existing domestic hot and cold water systems, sanitary and storm systems, fire protection systems within the existing building operational at all times for Owner ‘s occupancy and during construction.

C. Each Contractor shall provide all task lighting for his work.

D. Each Contractor shall maintain all existing systems, including but not limited to, power, lighting, fire alarm, intercom, etc., within the existing building operational at all times for Owner occupancy and construction.

1.08 USE CHARGES

A. General: Cost for temporary facilities are not chargeable to the Owner, Engineer, and Construction Manager. The Owner, Engineer, and Construction Manager will not accept a prime contractor's cost or use charges for temporary services or facilities as a basis of claim for an adjustment in the Contract Sum or the Contract Time.
   1. Water Service Use Charges: Water from the Owner’s existing water system may be used without metering, and without payment for use charges.
   2. Electric Power Service Use Charges: Electric power from the Owner's existing system may be used without payment of use charges.
   3. Temporary Utility Services: Where Owner's existing services is inadequate or would disrupt owners use of the existing facility, contractor shall provide utility services for the temporary use at the project site from the utility company, and pay all costs, including use charges.

1.09 TELECOMMUNICATIONS SERVICES

A. Telecommunications services shall include:

B. Each contractor shall provide and pay for its own telephone service.
   1. Provide mobile phone service for all field superintendents and foreman.
   2. Post a list of important telephone numbers, including the following:
      a. Local police and fire department.
      b. Doctor.
      c. Ambulance service.
      d. Contractor's temporary and home office.
      e. Owner's Representative temporary and home office
      f. Construction Manager's home office.
      g. Engineer's home office.
      h. Owner's home office.
      i. Principal subcontractors temporary and home office.

1.10 TEMPORARY SANITARY FACILITIES

A. The Contractor shall provide and maintain temporary sanitary facilities and enclosures for all Contractors.
   1. Provide at time of project mobilization.
   2. After the completion date each Contractor shall be responsible and pay all costs required to provide temporary sanitary facilities for their own use.

B. Provide and maintain required facilities and enclosures. Provide at time of project mobilization.

C. Toilets: Use of the Owner's existing toilet facilities will not be permitted

D. Maintain daily in clean and sanitary condition.

E. At end of construction, return facilities to same or better condition as originally found.

F. Sanitary Facilities: Sanitary facilities include temporary toilets, wash facilities and drinking water fixtures. Comply with governing regulations including safety and health codes for the type, number, location, operation and maintenance of fixtures and facilities; provide not less than specified requirements. Install in locations which will best serve the project's needs.
   1. Locate toilets and drinking water fixtures so that no one within the construction area will need to walk more than 2 stories vertically or 200 feet horizontally to reach these facilities.
   2. Install self-contained toilets to the extent permitted by governing regulations.

3. Supply and maintain toilet tissue, paper towels, paper cups and other disposable materials as appropriate for each facility, including Owner's Representative's temporary offices. Provide covered waste containers for used material.

1.11 BARRIERS

A. Responsibility: Construction barriers required for the project shall be the responsibility of the each contractor

B. Barricades, Warning Signs and Lights: Comply with recognized standards and code requirements for erection of substantial, structurally adequate barricades where needed to prevent accidents and losses. Paint with appropriate colors, graphics and warning signs to inform personnel at the site and the public, of the hazard being protected against. Provide lighting where appropriate and needed for recognition of the facility, including flashing red lights where appropriate

C. Provide barriers to prevent unauthorized entry to construction areas, to prevent access to areas that could be hazardous to workers or the public, to allow for owner's use of site and to protect existing facilities and adjacent properties from damage from construction operations.

D. Provide protection for plants designated to remain. Replace damaged plants.

E. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.

1.12 SECURITY - SEE SECTION 01 3553

1.13 VEHICULAR ACCESS AND PARKING

A. Comply with regulations relating to use of streets and sidewalks, access to emergency facilities, and access for emergency vehicles.

B. Coordinate access and haul routes with governing authorities and the Owner.

C. Provide and maintain access to fire hydrants, free of obstructions.

D. Existing parking areas may be used for construction parking. Specific areas for use by the Contractor will be determined by the Owner.

E. Maintain access at all times to the boiler room entrance. Do not block loading dock area adjacent to the Boiler Room.

1.14 WASTE REMOVAL

A. See Section 01 7419 - Construction Waste Management and Disposal, for additional requirements.

B. The Contractor shall provide their own containers, at grade, sufficient for the depositing of non-hazardous/non-toxic waste materials and shall remove such waste materials from project site as required or directed by the Owner's representative.
   1. Provide specific containers for separation and storage of materials for recycling, salvage, reuse, return, and trash disposal, for use by all contractors and installers.
   2. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
   3. Contractors shall not utilize the Owner's bins or dumpsters.

C. The Contractor shall clean the work area at the end of each workday.
   1. If the contractor fails to clean areas at the end of each workday the Owner shall perform the cleaning and back charge the contractor accordingly.

D. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.

E. Provide containers with lids. Remove trash from site periodically.

F. The contractor shall be responsible for daily cleaning up of spillage and debris resulting from its operations and shall be responsible for complete removal and disposition of hazardous and toxic waste materials.
   1. Remove liquid spills promptly.

G. Burying or burning of waste materials on the site will not be permitted. Washing waste materials down sewers or into waterways will not be permitted.

H. Site: The Contractor shall maintain Project site free of waste materials and debris.

I. The Contractor is responsible to provide dust protection for their construction-related activities.

J. If daily cleaning and dust protection is not provided the Contractor will be back charged for cleanup performed by employees of the Owner or a separate contractor retained by the Owner.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01 5060
SITE SAFETY

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY:

A. The purpose of this section is to specify the safety requirements, which must be followed by each Contractor during the execution of this contract.

B. Each Contractor agrees that the work will be completed with the greatest degree of safety and:
   1. To conform to the requirements of the Occupational Safety and Health Act of 1970 (OSHA) and the Construction Safety Act of 1969, including all standards and regulations that have been or shall be promulgated by the governmental authorities which administer such acts, and shall hold the Owner, Owner's Representative, the Architect, and all their employees, consultants and representatives harmless from and against and shall indemnify each and every one of them for any and all claims, actions, liabilities, costs and expenses, including attorneys fees, which any of them may incur as a result of non-compliance.

1.03 DEFINITIONS

A. Public shall mean anyone not involved with or employed by the contractor to perform the duties of this contract.
   1. Site shall mean the limits of the work area.
   2. Contractor shall mean the contractor, his/her subcontractors and any other person related to the contract execution.

1.04 REFERENCES:

A. Code of Federal Regulations OSHA Safety and Health.

PART 2 - PRODUCTS

2.01 MATERIALS:

A. Barriers shall be constructed of sturdy lumber having a minimum size of 2'x 4'.

B. Signs shall be made of sturdy plywood of 1/2" minimum thickness and shall be made to legible at a distance of 50 feet.

PART 3 - EXECUTION

3.01 GENERAL

A. In the performance of its contract, each Contractor shall exercise every precaution to prevent injury to workers and the public or damage to property.
   1. Each Contractor shall, at their own expense, provide temporary structures, place watchmen, design and erect barricades, fences and railings, give warnings, display such lights, signals and signs, exercise such precautions against fire, adopt and enforce such rules and regulations, and take such other precautions as may be necessary, desirable or proper or as may be directed.
   2. Each Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the work to be done under this contract. Each Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss including but not limited to:
      a. All employees working in connection with this contract, and other persons who may be affected thereby.
      b. All the work materials and equipment to be incorporated therein whether in storage on or off site; and including trees, shrubs, lawns, walks, pavements, facilities not designated for removal, relocation or replacement in the course of construction.

B. Each Contractor's duties and responsibilities for the safety and protection of the work: shall continue until such time as all the work is completed and contractor has removed all workers, material and equipment from the site, or the issuance of the certificate of final completion, whichever shall occur last.

C. Each Contractor shall use only machinery and equipment adapted to operate with the least possible noise, and shall so conduct his operations that annoyance to occupants of the site and nearby homes and facilities shall be reduced to a minimum

D. It shall be the responsibility of each Contractor to insure that all employees of the contractor and all subcontractors, and any other persons associated with the performance of their contract shall comply with the provisions of this specification.

E. Each Contractor shall clean up the site daily and keep the site free of debris, refuse, rubbish, and scrap materials. The site shall be kept in a neat and orderly fashion. Before the termination of the contract, each Contractor shall remove all surplus materials, falsework, temporary fences, temporary structures, including foundations thereof.

F. Each Contractor shall follow all rules and regulations put forth in the Code of Federal Regulations (OSHA Safety and Health Standards).

END OF SECTION

SECTION 01 5100

TEMPORARY UTILITIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Temporary Utilities: Provision of electricity, lighting, ventilation, and water.

1.02 REFERENCE STANDARDS

A. 29 CFR 1926 - U.S. Occupational Safety and Health Standards; current edition.

1.03 TEMPORARY ELECTRICITY

A. Cost: By Contractor.

B. Connect to Owner's existing power service.
   1. Do not disrupt Owner's need for continuous service.
   2. Exercise measures to conserve energy.

C. Provide temporary electric feeder from existing building electrical service at location as directed.

D. Complement existing power service capacity and characteristics as required.

E. Provide power outlets for construction operations, with branch wiring and distribution boxes located at each floor. Provide flexible power cords as required.

F. Permanent convenience receptacles may be utilized during construction.

G. Provide adequate distribution equipment, wiring, and outlets to provide single phase branch circuits for power and lighting.

1.04 TEMPORARY LIGHTING FOR CONSTRUCTION PURPOSES

A. Provide and maintain LED, compact fluorescent, or high-intensity discharge lighting as suitable for the application for construction operations in accordance with requirements of 29 CFR 1926 and authorities having jurisdiction.

B. Provide branch wiring from power source to distribution boxes with lighting conductors, pigtails, and lamps as required.

C. Maintain lighting and provide routine repairs.

1.05 TEMPORARY VENTILATION

A. Existing ventilation equipment may not be used.

1.06 TEMPORARY WATER SERVICE

A. Provide and maintain suitable quality water service for construction operations at time of project mobilization.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01 6000

PRODUCT REQUIREMENTS

PART 1 GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SECTION INCLUDES

A. General product requirements.

B. Re-use of existing products.

C. Transportation, handling, storage and protection.

D. Product option requirements.

E. Substitution limitations.

F. Maintenance materials, including extra materials, spare parts, tools, and software.

1.03 SUBMITTALS

A. Refer to Section 01 3000 - Administrative Requirements for additional requirements.

B. Proposed Products List: Submit list of major products proposed for use, with name of manufacturer, trade name, and model number of each product.
   1. Submit within 15 days after date of Agreement.
   2. For products specified only by reference standards, list applicable reference standards.

C. Product Data Submittals: Submit manufacturer's standard published data. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.

D. Shop Drawing Submittals: Prepared specifically for this Project; indicate utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.

E. Sample Submittals: Illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
   1. For selection from standard finishes, submit samples of the full range of the manufacturer's standard colors, textures, and patterns.

1.04 ASBESTOS

A. Asbestos: All products, materials, etc., used in conjunction with this Project shall be Asbestos-Free.
   1. Contractor shall provide a letter to the Owner stating that no asbestos containing material has been used in this project.

PART 2 PRODUCTS

2.01 EXISTING PRODUCTS

A. Do not use materials and equipment removed from existing premises unless specifically required or permitted by the Contract Documents.

B. Existing materials and equipment indicated to be removed, but not to be re-used, relocated, reinstalled, delivered to the Warwick Valley Central School District, or otherwise indicated as to remain the property of the Warwick Valley Central School District, become the property of the Contractor; remove from site.

2.02 NEW PRODUCTS

A. Provide new products unless specifically required or permitted by the Contract Documents.

B. Use of products having any of the following characteristics is not permitted:
   1. Made outside the United States, its territories, Canada, or Mexico.
   2. Made using or containing CFC's or HCFC's.

C. Where other criteria are met, Contractor shall give preference to products that:

1. If used on interior, have lower emissions, as defined.
2. If wet-applied, have lower VOC content, as defined.
3. Have a published GreenScreen Chemical Hazard Analysis.

2.03 PRODUCT OPTIONS

A. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.

B. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not named.

2.04 MAINTENANCE MATERIALS

A. Furnish extra materials, spare parts, tools, and software of types and in quantities specified in individual specification sections.

B. Deliver to Project site; obtain receipt prior to final payment.

PART 3 EXECUTION

3.01 SUBSTITUTION LIMITATIONS

A. Eisenbach & Ruhnke Engineering, P.C. will consider requests for substitutions only within 15 days after date of Letter of Award.

B. Substitutions will not be considered during the bidding phase.

C. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents.

D. A request for substitution constitutes a representation that the submitter:
1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product.
2. Agrees to provide the same warranty for the substitution as for the specified product.
3. Agrees to coordinate installation and make changes to other Work that may be required for the Work to be complete with no additional cost to Warwick Valley Central School District.
4. Waives claims for additional costs or time extension that may subsequently become apparent.

E. Substitutions will not be considered when they are indicated or implied on shop drawing or product data submittals, without separate written request, or when acceptance will require revision to the Contract Documents.

F. Substitution Submittal Procedure (after contract award):
1. Submit one copy of request for substitution for consideration. Limit each request to one proposed substitution.
2. Submit shop drawings, product data, and certified test results attesting to the proposed product equivalence. Burden of proof is on proposer.
3. Engineer will notify Contractor in writing of decision to accept or reject request.
4. Samples, where applicable or requested.

3.02 TRANSPORTATION AND HANDLING

A. Package products for shipment in manner to prevent damage; for equipment, package to avoid loss of factory calibration.

B. If special precautions are required, attach instructions prominently and legibly on outside of packaging.

C. Coordinate schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.

D. Transport and handle products in accordance with manufacturer's instructions.

E. Transport materials in covered trucks to prevent contamination of product and littering of surrounding areas.

F. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.

G. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage, and to minimize handling.

H. Arrange for the return of packing materials, such as wood pallets, where economically feasible.

3.03 STORAGE AND PROTECTION

A. Designate receiving/storage areas for incoming products so that they are delivered according to installation schedule and placed convenient to work area in order to minimize waste due to excessive materials handling and misapplication. See Section 01 7419.

B. Store and protect products in accordance with manufacturers' instructions.

C. Store with seals and labels intact and legible.

D. Store sensitive products in weathertight, climate-controlled enclosures in an environment favorable to product.

E. For exterior storage of fabricated products, place on sloped supports above ground.

F. Protect products from damage or deterioration due to construction operations, weather, precipitation, humidity, temperature, sunlight and ultraviolet light, dirt, dust, and other contaminants.

G. Comply with manufacturer's warranty conditions, if any.

H. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.

I. Prevent contact with material that may cause corrosion, discoloration, or staining.

J. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.

K. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

END OF SECTION

SECTION 01 6116

VOLATILE ORGANIC COMPOUND (VOC) CONTENT RESTRICTIONS

PART 1 GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SECTION INCLUDES

A. Requirements for Indoor-Emissions-Restricted products.

B. Requirements for VOC-Content-Restricted products.

1.03 RELATED REQUIREMENTS

A. Section 01 3000 - Administrative Requirements: Submittal procedures.

B. Section 01 4000 - Quality Requirements: Procedures for testing and certifications.

C. Section 01 6000 - Product Requirements: Fundamental product requirements, substitutions and product options, delivery, storage, and handling.

1.04 DEFINITIONS

A. Indoor-Emissions-Restricted Products: All products in the following product categories, whether specified or not:
   1. Interior paints and coatings.
   2. Interior adhesives and sealants, including flooring adhesives.

B. VOC-Content-Restricted Products: All products in the following product categories, whether specified or not:
   1. Exterior and interior adhesives and sealants, including flooring adhesives.

C. Adhesives: All gunnable, trowelable, liquid-applied, and aerosol adhesives, whether specified or not; including flooring adhesives, resilient base adhesives, and pipe jointing adhesives.

D. Sealants: All gunnable, trowelable, and liquid-applied joint sealants and sealant primers, whether specified or not; including firestopping sealants and duct joint sealers.

E. Inherently Non-Emitting Materials: Products composed wholly of minerals or metals, unless they include organic-based surface coatings, binders, or sealants; and specifically, the following:
   1. Concrete.
   2. Clay brick.
   3. Metals that are plated, anodized, or powder-coated.
   4. Glass.
   5. Ceramics.
   6. Solid wood flooring that is unfinished and untreated.

1.05 REFERENCE STANDARDS

A. 40 CFR 59, Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings; U.S. Environmental Protection Agency; current edition.

B. ASTM D3960 - Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings; 2005 (Reapproved 2013).

C. SCAQMD 1168 - South Coast Air Quality Management District Rule No.1168; current edition.

1.06 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

B. Product Data: For each VOC-restricted product used in the project, submit evidence of compliance.

1.07 QUALITY ASSURANCE

A. VOC Content Test Method: 40 CFR 59, Subpart D (EPA Method 24), or ASTM D3960, unless otherwise indicated.

1. Evidence of Compliance: Acceptable types of evidence are:
   a. Report of laboratory testing performed in accordance with requirements.

B. Testing Agency Qualifications: Independent firm specializing in performing testing and inspections of the type specified in this section.

PART 2 PRODUCTS

2.01 MATERIALS

A. All Products: Comply with the most stringent of federal, State, and local requirements, or these specifications.

B. VOC-Content-Restricted Products: VOC content not greater than required by the following:
   1. Adhesives, Including Flooring Adhesives: SCAQMD 1168 Rule.
   2. Joint Sealants: SCAQMD 1168 Rule.

PART 3 EXECUTION

3.01 FIELD QUALITY CONTROL

A. Yonkers Public Schools reserves the right to reject non-compliant products, whether installed or not, and require their removal and replacement with compliant products at no extra cost to Yonkers Public Schools.

B. Additional costs to restore indoor air quality due to installation of non-compliant products will be borne by Contractor.

END OF SECTION

SECTION 01 7000
EXECUTION AND CLOSEOUT REQUIREMENTS

PART 1 GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract apply to this Section.

1.02 SECTION INCLUDES

A. Inspections prior to start of work.

B. Examination, preparation, and general installation procedures.

C. General installation of products.

D. Progress cleaning.

E. Protection of installed construction.

F. Correction of Work.

G. Requirements for alterations work, including selective demolition and asbestos abatement.

H. Pre-installation meetings.

I. Cutting and patching.

J. Surveying for laying out the work.

K. Cleaning and protection.

L. Closeout procedures, except payment procedures.

M. Final Cleaning.

1.03 RELATED REQUIREMENTS

A. Section 01 1000 - Summary of Contracts: Limitations on working in existing building; continued occupancy; work sequence; identification of salvaged and relocated materials.

B. Section 01 3000 - Administrative Requirements: Submittals procedures.

C. Section 01 4000 - Quality Requirements: Testing and inspection procedures.

D. Section 01 5000 - Temporary Facilities and Controls

E. Section 01 5000 - Temporary Facilities and Controls: Temporary interior partitions.

F. Section 01 7419 - Construction Waste Management and Disposal: Additional procedures for trash/waste removal, recycling, salvage, and reuse.

G. Section 01 7800 - Closeout Submittals: Project record documents, operation and maintenance data, warranties and bonds.

1.04 SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

B. Survey work: Submit name, address, and telephone number of Surveyor before starting survey work.
   1. On request, submit documentation verifying accuracy of survey work.
   2. Submit a copy of site drawing signed by the Land Surveyor, that the elevations and locations of the work are in conformance with Contract Documents.
   3. Submit surveys and survey logs for the project record.

C. Cutting and Patching: Submit written request in advance of cutting or alteration that affects:
   1. Structural integrity of any element of Project.
   2. Integrity of weather exposed or moisture resistant element.
   3. Efficiency, maintenance, or safety of any operational element.
   4. Visual qualities of sight exposed elements.
   5. Work of Yonkers Public School District or separate Contractor.

D. Landfill Receipts: Submit copy of receipts issued by a landfill facility, licensed to accept hazardous materials, or hazardous waste disposal.

1.05 QUALIFICATIONS

A. For demolition work, employ a firm specializing in the type of work required.

B. For survey work, employ a land surveyor registered in the State in which the Project is located and acceptable to Engineer. Submit evidence of Surveyor's Errors and Omissions insurance coverage in the form of an Insurance Certificate.

1.06 COORDINATION

A. See Section 01 1000 for occupancy-related requirements.

B. Coordinate scheduling, submittals, and work of the various sections of the Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.

C. Notify affected utility companies and comply with their requirements.

D. Verify that utility requirements and characteristics of new operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.

E. Coordinate space requirements, supports, and installation of mechanical and electrical work that are indicated diagrammatically on Drawings. Follow routing shown for pipes, ducts, and conduit, as closely as practicable; place runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.

F. In finished areas except as otherwise indicated, conceal pipes, ducts, and wiring within the construction. Coordinate locations of fixtures and outlets with finish elements.

G. Coordinate completion and clean-up of work of separate sections.

H. After Yonkers Public School District occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents, to minimize disruption of Yonkers Public School District's activities.

1.07 CODES, PERMITS, FEES, ETC. REFER TO SECTION 01 41 00 REGULATORY REQUIREMENTS

A. Refer to Owner Contractor Agreement for additional requirements.

B. Any items of work specified herein and shown on the drawings which conflict with aforementioned rules, regulations and requirements, shall be referred to the Engineer, Owner, and Architect for decision, which decision shall be final and binding.

C. The building is to be constructed under the following Rules and Regulations of the New York State Uniform Fire and Building Codes known as the “Building Codes of the State of New York” and consist of the following:
   1. Building Code of New York State
   2. State Education Department Planning Standards, including Commissioner's Regulation Part 155.5, 155.7
   3. Energy Conservation Construction Code of New York State
   4. Fire Code of New York State

1.08 MANDATORY OSHA CONSTRUCTION SAFETY AND HEALTH TRAINING

A. Effective July 18, 2008 - Pursuant to NYS Labor Law §220-h - On all public work projects of at least $250,000 all laborers, workers and mechanics working on the site are required to be certified as having successfully completed an OSHA construction safety and health course of at least 10 hours prior to performing any work on the project.

PART 2 PRODUCTS

2.01 PATCHING MATERIALS

A. New Materials: As specified in product sections; match existing products and work for patching and extending work.

B. Type and Quality of Existing Products: Determine by inspecting and testing products where necessary, referring to existing work as a standard.

C. Product Substitution: For any proposed change in materials, submit request for substitution described in Section 01 6000.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.

B. Examine and verify specific conditions described in individual specification sections.

C. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or misfabrication.

D. Verify that utility services are available, of the correct characteristics, and in the correct locations.

E. Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means acceptance of existing conditions.

3.02 PREPARATION

A. Clean substrate surfaces prior to applying next material or substance.

B. Seal cracks or openings of substrate prior to applying next material or substance.

C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.

3.03 PREINSTALLATION MEETINGS

A. When required in individual specification sections, convene a preinstallation meeting at the site prior to commencing work of the section.

B. Require attendance of parties directly affecting, or affected by, work of the specific section.

C. Notify Engineer four days in advance of meeting date.

D. Prepare agenda and preside at meeting:
   1. Review conditions of examination, preparation and installation procedures.
   2. Review coordination with related work.

E. Record minutes and distribute copies within two days after meeting to participants, with two copies to Engineer, Yonkers Public School District, participants, and those affected by decisions made.

3.04 LAYING OUT THE WORK

A. Verify locations of survey control points prior to starting work.

B. Promptly notify Engineer of any discrepancies discovered.

C. Protect survey control points prior to starting site work; preserve permanent reference points during construction.

D. Promptly report to Engineer the loss or destruction of any reference point or relocation required because of changes in grades or other reasons.

E. Replace dislocated survey control points based on original survey control. Make no changes without prior written notice to Engineer.

F. Utilize recognized engineering survey practices.

G. Periodically verify layouts by same means.

H. Maintain a complete and accurate log of control and survey work as it progresses.

3.05 GENERAL INSTALLATION REQUIREMENTS

A. Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to avoid waste due to necessity for replacement.

B. Make vertical elements plumb and horizontal elements level, unless otherwise indicated.

C. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and horizontal lines, unless otherwise indicated.

D. Make consistent texture on surfaces, with seamless transitions, unless otherwise indicated.

E. Make neat transitions between different surfaces, maintaining texture and appearance.

3.06 ALTERATIONS

A. Drawings showing existing construction and utilities are based on casual field observation and existing record documents only.
   1. Verify that construction and utility arrangements are as shown.
   2. Report discrepancies to Engineer before disturbing existing installation.
   3. Beginning of alterations work constitutes acceptance of existing conditions.

B. Keep areas in which alterations are being conducted separated from other areas that are still occupied.
   1. Provide, erect, and maintain temporary dustproof partitions of construction specified in Section 01 5000 in locations indicated on drawings.

C. Maintain weatherproof exterior building enclosure except for interruptions required for replacement or modifications; take care to prevent water and humidity damage.
   1. Where openings in exterior enclosure exist, provide construction to make exterior enclosure weatherproof.
   2. Insulate existing ducts or pipes that are exposed to outdoor ambient temperatures by alterations work.

D. Remove existing work as indicated and as required to accomplish new work.
   1. Remove rotted wood, corroded metals, and deteriorated masonry and concrete; replace with new construction specified.
   2. Remove items indicated on drawings.
   3. Relocate items indicated on drawings.
   4. Where new surface finishes are to be applied to existing work, perform removals, patch, and prepare existing surfaces as required to receive new finish; remove existing finish if necessary for successful application of new finish.
   5. Where new surface finishes are not specified or indicated, patch holes and damaged surfaces to match adjacent finished surfaces as closely as possible.

E. Services (Including but not limited to HVAC, Plumbing, Fire Protection, Electrical, and Telecommunications): Remove, relocate, and extend existing systems to accommodate new construction.
   1. Maintain existing active systems that are to remain in operation; maintain access to equipment and operational components; if necessary, modify installation to allow access or provide access panel.
   2. Where existing systems or equipment are not active and Contract Documents require reactivation, put back into operational condition; repair supply, distribution, and equipment as required.
   3. Where existing active systems serve occupied facilities but are to be replaced with new services, maintain existing systems in service until new systems are complete and ready for service.
      a. Disable existing systems only to make switchovers and connections; minimize duration of outages.
      b. Provide temporary connections as required to maintain existing systems in service.
   4. Verify that abandoned services serve only abandoned facilities.
   5. Remove abandoned pipe, ducts, conduits, and equipment, including those above accessible ceilings; remove back to source of supply where possible, otherwise cap stub and tag with identification; patch holes left by removal using materials specified for new construction.

F. Protect existing work to remain.
   1. Prevent movement of structure; provide shoring and bracing if necessary.
   2. Perform cutting to accomplish removals neatly and as specified for cutting new work.
   3. Repair adjacent construction and finishes damaged during removal work.

G. Adapt existing work to fit new work: Make as neat and smooth transition as possible.
   1. When existing finished surfaces are cut so that a smooth transition with new work is not possible, terminate existing surface along a straight line at a natural line of division and make recommendation to Engineer.

H. Patching: Where the existing surface is not indicated to be refinished, patch to match the surface finish that existed prior to cutting. Where the surface is indicated to be refinished, patch so that the substrate is ready for the new finish.

I. Clean existing systems and equipment.

J. Remove demolition debris and abandoned items from alterations areas and dispose of off-site; do not burn or bury.

K. Do not begin new construction in alterations areas before demolition is complete.

L. Comply with all other applicable requirements of this section.

3.07 FIRE PREVENTION AND CONTROL

A. Each Contractor shall abide by such rules and instructions as to fire prevention and control as required by the Owner, Owner's Representative, Engineer and Fire Department. The Contractor(s) shall take all necessary steps to prevent its employees from setting fires not required in the construction of the facility and shall be responsible for preventing the escape of fires set in connection with the construction and shall at all times provide the proper housekeeping to minimize potential fire hazards.

B. Free access to fire hydrants and standpipe connections shall be maintained at all times during construction operations. Portable fire extinguishers shall be provided by the Construction Contractor and made conveniently available throughout the construction site. Contractor(s) shall notify their employees of the location of the nearest fire alarm box at all locations where work is in progress.

3.08 SECURITY SYSTEM

A. The existing building contains a security alarm system maintained and operated by the Owner. Access into the existing building shall not be permitted unless the owner is notified and arrangements made to deactivate the system.

3.09 CUTTING AND PATCHING

A. Whenever possible, execute the work by methods that avoid cutting or patching.

B. Perform whatever cutting and patching is necessary to:
   1. Complete the work.
   2. Fit products together to integrate with other work.
   3. Provide openings for penetration of mechanical, electrical, and other services.
   4. Match work that has been cut to adjacent work.
   5. Repair areas adjacent to cuts to required condition.
   6. Repair new work damaged by subsequent work.
   7. Remove and replace defective and non-conforming work.

C. Execute work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing. In existing work, minimize damage and restore to original condition.

D. Employ original installer to perform cutting for weather exposed and moisture resistant elements, and sight exposed surfaces.

E. Restore work with new products in accordance with requirements of Contract Documents.

F. Fit work air tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.

G. Patching:
   1. Finish patched surfaces to match finish that existed prior to patching. On continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.
   2. Match color, texture, and appearance.
   3. Repair patched surfaces that are damaged, lifted, discolored, or showing other imperfections due to patching work. If defects are due to condition of substrate, repair substrate prior to repairing finish.

3.10 PROGRESS CLEANING

A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.

B. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing the space.

C. Broom and vacuum clean interior areas prior to start of surface finishing and continue cleaning to eliminate dust.

D. Collect and remove waste materials, debris, and trash/rubbish from site periodically and dispose off-site; do not burn or bury.

3.11 PROTECTION OF INSTALLED WORK

A. Protect installed work from damage by construction operations.

B. Provide special protection where specified in individual specification sections.

C. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.

D. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.

E. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.

F. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.

G. Remove protective coverings when no longer needed; reuse or recycle plastic coverings if possible.

3.12 ADJUSTING

A. Adjust operating products and equipment to ensure smooth and unhindered operation.

3.13 FINAL CLEANING

A. Final cleaning shall be the responsibility of the General Construction and all costs for final cleaning shall be included in the Base Bid. Final cleaning responsibility shall be limited to all new additions and areas where renovations occur.

B. Execute final cleaning prior to final project assessment.
   1. Clean areas to be occupied by Warwick Valley Central School District prior to final completion before Warwick Valley Central School District occupancy.

C. Use cleaning materials that are nonhazardous.

D. Clean interior and exterior glass, surfaces exposed to view; remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces, vacuum carpeted and soft surfaces.

E. Remove all labels that are not permanent. Do not paint or otherwise cover fire test labels or nameplates on mechanical and electrical equipment.

F. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.

G. Clean filters of operating equipment.

H. Clean debris from roofs, gutters, downspouts, and drainage systems.

I. Clean site; sweep paved areas, rake clean landscaped surfaces.

J. Remove waste, surplus materials, trash/rubbish, and construction facilities from the site; dispose of in legal manner; do not burn or bury.

K. General: Provide final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.

L. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.

M. Cleaning Agents: Use cleaning materials and agents recommended by the manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

N. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.

O. Wax all resilient flooring.

P. Touch up and otherwise repair and restore marred, exposed finishes and surfaces evidence of repair or restoration. Replace finishes and surfaces that cannot be satisfactorily repaired or restored or that already show

Q. Leave Project clean and ready for occupancy.

R. Comply with safety standards for cleaning. Do not burn waste materials. Do not bury debris or excess materials on Owner's property. Do not discharge volatile, harmful, or dangerous materials into drainage systems. Remove waste materials from Project site and dispose of lawfully.

3.14 CLOSEOUT PROCEDURES

A. Make submittals that are required by governing or other authorities.

B. Notify Engineer when work is considered ready for Substantial Completion.

C. Submit written certification that Contract Documents have been reviewed, work has been inspected, and that work is complete in accordance with Contract Documents and ready for Engineer's review.

D. Correct items of work listed in executed Certificates of Substantial Completion and comply with requirements for access to Yonkers Public School District-occupied areas.

E. Notify Engineer when work is considered finally complete.

F. Complete items of work determined by Engineer's final inspection.

END OF SECTION

SECTION 01 7329

CUTTING AND PATCHING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Whenever possible, execute the work by methods that avoid cutting or patching.

B. This Section includes procedural requirements for cutting and patching.

1. Refer to other Sections for specific requirements and limitations applicable to cutting and patching.
2. Requirements of this Section apply to all contracts. Refer to various sections and divisions of these specifications for other requirements and limitations applicable to cutting and patching.
3. Contractor acknowledges that the work involves renovation and alteration of existing improvements and, therefore, cutting and patching of the work is essential for the Project to be successfully completed. Contractor shall perform any cutting, altering, patching and fitting of the work necessary for the work and the existing improvements to be fully integrated and to present the visual appearance of an entire, completed, and unified project. In performing any work which requires cutting, fixing, or patching, Contractor shall use its best efforts to protect and preserve the visual appearance and aesthetics of the project to the reasonable satisfaction of both the Owner and the Architect.
4. Each Contractor shall do all cutting, patching, repairing as necessary for their work In all cases, the cutting, patching, repairing and finishing shall be performed mechanics skilled in the particular trade required at no additional cost to the Owner.

1.3 DEFINITIONS

A. Cutting: Removal of existing construction necessary to permit installation or performance of other Work.

B. Patching: Fitting and repair work required to restore surfaces to original conditions after installation of other Work.

1.4 SUBMITTALS

A. Cutting and Patching Proposal: Submit a proposal describing procedures at least 10 days before the time cutting and patching will be performed, requesting approval to proceed. Include the following information:

1. Extent: Describe cutting and patching; show how they will be performed, and indicate why they cannot be avoided.
2. Changes to Existing Construction: Describe anticipated results. Include changes to structural elements and operating components as well as changes in building's appearance and other significant visual elements.
3. Products: List products to be used and firms or entities that will perform the Work.
4. Dates: Indicate when cutting and patching will be performed.
5. Utilities: List utilities that cutting and patching procedures will disturb or affect. List utilities that will be relocated and those that will be temporarily out of service. Indicate how long service will be disrupted.
6. Structural Elements: Where cutting and patching involve adding reinforcement to structural elements, submit details and engineering calculations showing integration of reinforcement with original structure.
7. Architect's Approval: Obtain approval of cutting and patching proposal before cutting and patching. Approval does not waive right to later require removal and replacement of unsatisfactory work.

1.5 QUALITY ASSURANCE

A. Structural Elements: Do not cut and patch structural elements in a manner that could change their load-carrying capacity or load-deflection ratio.

B. Operational Elements: Do not cut and patch the following operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety.
   1. Primary operational systems and equipment.
      a. Air or smoke barriers.
      b. Fire-protection systems.
      c. Control systems.
      d. Communication systems.
      e. Conveying systems.
      f. Electrical wiring systems.
      g. Operating systems of special construction in Division 13 Sections.

C. Miscellaneous Elements: Do not cut and patch the following elements or related components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety.
   1. Water, moisture, or vapor barriers.
      a. Membranes and flashings.
      b. Exterior curtain-wall construction.
      c. Equipment supports.
      d. Piping, ductwork, vessels, and equipment.
      e. Noise- and vibration-control elements and systems.

D. Visual Requirements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch construction exposed on the exterior or in occupied spaces in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.

E. If possible, retain original Installer or fabricator to cut and patch exposed Work listed below. If it is impossible to engage original Installer or fabricator, engage another recognized, experienced, and specialized firm.
   1. Processed concrete finishes.
   2. Stonework and stone masonry.
   3. Ornamental metal.
   4. Matched-veneer woodwork.
   5. Preformed metal panels.
   6. Roofing.
   7. Firestopping.
   8. Window wall system.
   9. Stucco and ornamental plaster.
   10. Terrazzo.
   11. Finished wood flooring.
   12. Fluid-applied flooring.
   13. Aggregate wall coating.
   14. Wall covering.
   15. HVAC enclosures, cabinets, or covers.

F. Cutting and Patching Conference: Before proceeding, meet at Project site with parties involved in cutting and patching, including mechanical and electrical trades. Review areas of potential interference and conflict. Coordinate procedures and resolve potential conflicts before proceeding.

1.6 WARRANTY

A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during cutting and patching operations, by methods and with materials so as not to void existing warranties.

B. Prior to cutting and patching verify with Warwick Valley Central School District all existing warranties in effect.

PART 2 - PRODUCTS

2.1 MATERIALS

A. General: Comply with requirements specified in other Sections of these Specifications.

B. Existing Materials: Use materials identical to existing materials. For exposed surfaces, use materials that visually match existing adjacent surfaces to the fullest extent possible.

1. If identical materials are unavailable or cannot be used, use materials that, when installed, will match the visual and functional performance of existing materials.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine surfaces to be cut and patched and conditions under which cutting and patching are to be performed.

B. Compatibility: Before patching, verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.

C. Proceed with installation only after unsafe or unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Temporary Support: Provide temporary support of Work to be cut.

B. Protection: Protect existing construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.

C. Adjoining Areas: Avoid interference with use of adjoining areas or interruption of free passage to adjoining areas.

D. Existing Services: Where existing services are required to be removed, relocated, or abandoned, bypass such services before cutting to avoid interruption of services to occupied areas.

3.3 PERFORMANCE

A. General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.

B. Cut existing construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition. A sufficient time in advance of the construction of new walls, floors, pavement, or roofing etc. Each Contractor shall be responsible for properly locating and providing in place all sleeves, inserts and forms required for work.

C. Cutting: Cut existing construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.

1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots as small as possible, neatly to size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
2. Existing Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
3. Concrete/Masonry: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
4. Excavating and Backfilling: Comply with requirements in applicable Division 2 Sections where required by cutting and patching operations.

5. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.

D. All cutting of holes in existing walls, existing floors, existing roofs, existing ceilings, etc. for the removal of any existing work (including, but not limited to ducts, fans, fixtures, motors, equipment, drains, wiring, conduit, etc.) or for the installation of any new work shall be done in a neat manner by each Contractor. Debris caused by such cutting or removals will be removed by each Contractor.

E. Where sleeves, inserts or openings are required in existing walls, floors, roofs, vaults and pavements of existing buildings or structures, all necessary cutting, furnishing and installing of sleeves, inserts, lintels, etc., shall be done by each Contractor as required by his work.

F. Contractor(s) are hereby notified that the existing walls in the existing building are of varying materials. . All new openings in existing masonry walls shall be provided with steel lintels, minimum 4" bearing each side x wall thickness concrete masonry units filled solid on each side of the opening for proper support. See drawings for additional details and requirements.

G. Adequate blocking, fastening, etc., required to support equipment, casework, etc., from existing walls shall be included as required to complete work.

H. All surfaces where existing items are removed from existing walls, floors, ceilings, roofs, vaults, etc. shall be patched to match existing surfaces.

1. All patching shall be provided with prime and finish paint or other material to match existing. In areas indicated to be completely painted/finished by the contractor for construction, other prime contractors shall be required only to patch existing surfaces to match as required to accept new finishes.
2. Proceed with patching after construction operations requiring cutting are complete.

I. Removals of selected portions of the building for alterations is included in Section "Selective Removals".

J. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other Work. Patch with durable seams that are as invisible as possible. Provide materials and comply with installation requirements specified in other Sections of these Specifications.

1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate integrity of installation.
2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will eliminate evidence of patching and refinishing.
3. Floors and Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish, color, texture, and appearance. Remove existing floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.
    a. Where patching occurs in a painted surface, apply primer and intermediate paint coats over the patch and apply final paint coat over entire unbroken surface containing the patch. Provide additional coats until patch blends with adjacent surfaces.
4. Ceilings: Patch, repair, or rehang existing ceilings as necessary to provide an even-plane surface of uniform appearance.
5. Exterior Building Enclosure: Patch components in a manner that restores enclosure to a weathertight condition.

3.4 CLEANING

A. Clean areas and spaces where cutting and patching are performed. Completely remove paint, mortar, oils, putty, and similar items. Thoroughly clean piping, conduit, and similar features before applying paint or other finishing materials. Restore damaged pipe covering to its original condition.

END OF SECTION

SECTION 01 7419

CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

PART 1 GENERAL

1.01 WASTE MANAGEMENT REQUIREMENTS

A. Yonkers Public School District requires that this project generate the least amount of trash and waste possible.

B. Employ processes that ensure the generation of as little waste as possible due to error, poor planning, breakage, mishandling, contamination, or other factors.

C. Minimize trash/waste disposal in landfills; reuse, salvage, or recycle as much waste as economically feasible.

D. Contractor shall submit periodic Waste Disposal Reports; all landfill disposal, incineration, recycling, salvage, and reuse must be reported regardless of to whom the cost or savings accrues; use the same units of measure on all reports.

E. Methods of trash/waste disposal that are not acceptable are:
   1. Burning on the project site.
   2. Burying on the project site.
   3. Dumping or burying on other property, public or private.
   4. Other illegal dumping or burying.

F. Regulatory Requirements: Contractor is responsible for knowing and complying with regulatory requirements, including but not limited to Federal, state and local requirements, pertaining to legal disposal of all construction and demolition waste materials.

1.02 DEFINITIONS

A. Clean: Untreated and unpainted; not contaminated with oils, solvents, caulk, or the like.

B. Construction and Demolition Waste: Solid wastes typically including building materials, packaging, trash, debris, and rubble resulting from construction, remodeling, repair and demolition operations.

C. Hazardous: Exhibiting the characteristics of hazardous substances, i.e., ignitibility, corrosivity, toxicity or reactivity.

D. Nonhazardous: Exhibiting none of the characteristics of hazardous substances, i.e., ignitibility, corrosivity, toxicity, or reactivity.

E. Nontoxic: Neither immediately poisonous to humans nor poisonous after a long period of exposure.

F. Recyclable: The ability of a product or material to be recovered at the end of its life cycle and remanufactured into a new product for reuse by others.

G. Recycle: To remove a waste material from the project site to another site for remanufacture into a new product for reuse by others.

H. Recycling: The process of sorting, cleansing, treating and reconstituting solid waste and other discarded materials for the purpose of using the altered form. Recycling does not include burning, incinerating, or thermally destroying waste.

I. Return: To give back reusable items or unused products to vendors for credit.

J. Reuse: To reuse a construction waste material in some manner on the project site.

K. Salvage: To remove a waste material from the project site to another site for resale or reuse by others.

L. Sediment: Soil and other debris that has been eroded and transported by storm or well production run-off water.

M. Source Separation: The act of keeping different types of waste materials separate beginning from the first time they become waste.

N. Toxic: Poisonous to humans either immediately or after a long period of exposure.

O. Trash: Any product or material unable to be reused, returned, recycled, or salvaged.

P. Waste: Extra material or material that has reached the end of its useful life in its intended use. Waste includes salvageable, returnable, recyclable, and reusable material.

1.03 SUBMITTALS

A. Waste Disposal Reports: Submit at specified intervals, with details of quantities of trash and waste, means of disposal or reuse, and costs; show both totals to date and since last report.
   1. Submit updated Report with each Application for Progress Payment; failure to submit Report will delay payment.
   2. Submit Report on a form acceptable to Yonkers Public School District.
   3. Landfill Disposal: Include the following information:
      a. Identification of material.
      b. Amount, in tons or cubic yards, of trash/waste material from the project disposed of in landfills.
      c. State the identity of landfills, total amount of tipping fees paid to landfill, and total disposal cost.
      d. Include manifests, weight tickets, receipts, and invoices as evidence of quantity and cost.
   4. Incinerator Disposal: Include the following information:
      a. Identification of material.
      b. Amount, in tons or cubic yards, of trash/waste material from the project delivered to incinerators.
      c. State the identity of incinerators, total amount of fees paid to incinerator, and total disposal cost.
      d. Include manifests, weight tickets, receipts, and invoices as evidence of quantity and cost.
   5. Recycled and Salvaged Materials: Include the following information for each:
      a. Identification of material, including those retrieved by installer for use on other projects.
      b. Amount, in tons or cubic yards, date removed from the project site, and receiving party.
      c. Transportation cost, amount paid or received for the material, and the net total cost or savings of salvage or recycling each material.
      d. Include manifests, weight tickets, receipts, and invoices as evidence of quantity and cost.
      e. Certification by receiving party that materials will not be disposed of in landfills or by incineration.
   6. Material Reused on Project: Include the following information for each:
      a. Identification of material and how it was used in the project.
      b. Amount, in tons or cubic yards.
      c. Include weight tickets as evidence of quantity.
   7. Other Disposal Methods: Include information similar to that described above, as appropriate to disposal method.

PART 2 – PRODUCTS – NOT APPLICABLE

PART 3 EXECUTION

3.01 WASTE MANAGEMENT PLAN IMPLEMENTATION

A. Manager: Designate an on-site person or persons responsible for instructing workers and overseeing and documenting results of the Waste Management Plan.

B. Communication: Distribute copies of the Waste Management Plan to job site foreman, each subcontractor, Yonkers Public School District, and Engineer.

C. Instruction: Provide on-site instruction of appropriate separation, handling, and recycling, salvage, reuse, and return methods to be used by all parties at the appropriate stages of the project.

D. Meetings: Discuss trash/waste management goals and issues at project meetings.
   1. Pre-bid meeting.
   2. Pre-construction meeting.
   3. Regular job-site meetings.

E. Facilities: Provide specific facilities for separation and storage of materials for recycling, salvage, reuse, return, and trash disposal, for use by all contractors and installers.

1. Provide containers as required.
2. Provide adequate space for pick-up and delivery and convenience to subcontractors.
3. Keep recycling and trash/waste bin areas neat and clean and clearly marked in order to avoid contamination of materials.

F. Hazardous Wastes: Separate, store, and dispose of hazardous wastes according to applicable regulations.

G. Recycling: Separate, store, protect, and handle at the site identified recyclable waste products in order to prevent contamination of materials and to maximize recyclability of identified materials. Arrange for timely pickups from the site or deliveries to recycling facility in order to prevent contamination of recyclable materials.

H. Reuse of Materials On-Site: Set aside, sort, and protect separated products in preparation for reuse.

I. Salvage: Set aside, sort, and protect products to be salvaged for reuse off-site.

END OF SECTION

SECTION 01 7800
CLOSEOUT SUBMITTALS

PART 1 GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract apply to work of this section.

1.02 SECTION INCLUDES

A. Project Record Documents.

B. Operation and Maintenance Data.

C. Warranties and bonds.

1.03 RELATED REQUIREMENTS

A. Section 01 3000 - Administrative Requirements: Submittals procedures, shop drawings, product data, and samples.

B. Section 01 7000 - Execution and Closeout Requirements: Contract closeout procedures.

C. Individual Product Sections: Warranties required for specific products or Work.

1.04 SUBSTANTIAL COMPLETION

A. Preliminary Procedures: Before requesting inspection for determining date of Substantial Completion:
   1. Prepare a list of items to be completed and corrected, the value of items on the list, and reasons why the Work is not complete.
   2. Advise Owner's Representative, Engineer, and Architect of pending insurance changeover requirements.
   3. Obtain and submit releases permitting Owner's Representative, Engineer, and Architect unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.

B. Prior to issuance of the Certificate of Substantial Completion, submit, in writing, a request to the Owner's Representative, Engineer, and Architect a request to perform site inspection for the purpose of preparing a "punch list".

C. On receipt of request Owner's Representative, Engineer, and Architect will prepare a punch list. Certificate of Substantial Completion after completion of all punch list items or will notify Contractor of items, either punch list or additional items identified by Architect that must be completed or corrected before certificate will be issued

D. Certificate of Substantial Completion will be issued after completion of all punch list items or Owner's Representative, Engineer, and Architect will notify Contractor of items, either punch list or additional items identified by Architect, that must be completed or corrected before certificate will be issued. After completion of "punch list" items submit the following:
   1. Application for Payment showing 100 percent completion for portion of the Work claimed as substantially completed the following:
   2. Warranties (guarantees).
   3. Maintenance Manuals and instructions.
   4. Final cleaning.
   5. List of incomplete Work, recognized as exceptions to Architect's "punch list"..
   6. Engineer/Architect's punch list certifying all punch list items have been completed and signed off by the Owner's Representative and Contractor.
   7. Removal of temporary facilities and services.
   8. Removal of surplus materials, rubbish and similar elements.

E. Request re inspection when the Work identified in previous inspections as incomplete is completed or corrected.

1.05 FINAL COMPLETION

A. Preliminary Procedures: Before requesting final inspection for determining date of Final Completion, complete the following:
   1. Inspection: Submit a written request for final inspection for acceptance. On receipt of request, Owner's Representative, Engineer, and Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will not process a final Certificate for Payment until after the inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.

B. Following Final Inspection acceptance of work submit the following:
   1. Submit a final Application for Payment.
   2. Submit certified copy of Architect's Substantial Completion punch list items endorsed and dated Contractor and Owner's Representative certifying each item has been completed or otherwise resolved for acceptance.
   3. Release of liens from contractor and all entitles of contractor.
   4. AIA Document G707 Consent of Surety to Final Payment.
   5. Final Liquidated Damages settlement statement.
   6. Contractor's Affidavit of Release of Liens (AIA G706A).
   7. Contractors Affidavit of Payment of Debts and Claims (AIA G706)
   8. Certification of Payment of Prevailing Wage Rates.
   9. Contractor's certified statement that no asbestos containing material was incorporated into the project.

1.06 SUBMITTALS

A. Contractor shall submit all documentation identified in this section within sixty (60) days from the time the Contractor submits the list of items to be corrected, as referred to in Article 14.4.1 of the General Conditions, "in addition to other rights of the Owner set forth elsewhere in the Contract Documents, to include but not limited to withholding of final payment." If the documentation has not been submitted within sixty 60 day period, the Owner will obtain such through whatever means necessary. The Contractor shall solely be responsible for all expenses incurred by the Owner, provided the Owner has advised the Contractor of this action thirty 30 days prior to the culmination date and again, seven 7 days prior to the culmination date by written notice.

B. Project Record Documents: Submit documents to Engineer with claim for final Application for Payment.

C. Warranties and Bonds:
   1. Make other submittals within 10 days after Date of Substantial Completion, prior to final Application for Payment.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PROJECT RECORD DOCUMENTS

A. Maintain on site one set of the following record documents; record actual revisions to the Work:
   1. Drawings.
   2. Specifications.
   3. Addenda.
   4. Change Orders and other modifications to the Contract.
   5. Reviewed shop drawings, product data, and samples.
   6. Manufacturer's instruction for assembly, installation, and adjusting.

B. Ensure entries are complete and accurate, enabling future reference by Yonkers Public School District.

C. Store record documents separate from documents used for construction.

D. Record information concurrent with construction progress.

E. Specifications: Legibly mark and record at each product section description of actual products installed, including the following:
   1. Changes made by Addenda and modifications.

F. Record Drawings and Shop Drawings: Legibly mark each item to record actual construction including:
   1. Field changes of dimension and detail.
   2. Details not on original Contract drawings.

3.02 RECORD DRAWINGS

A. Record Prints: Maintain one set of blue- or black-line white prints of the Contract Drawings and approved Shop Drawings at the project site.

B. The Contractor is responsible for marking up Sections that contain its own Work and for submitting the complete set of record Specifications as specified.

C. Preparation: Mark Record Prints to show the actual installation where installation varies from that shown originally. Require individual or entity who obtained record data, whether individual or entity is Installer, subcontractor, or similar entity, to prepare the marked-up Record Prints.
   1. Accurately record information in an understandable drawing technique.

D. Content: Types of items requiring marking include, but are not limited to, the following:
   1. Revisions to details shown on Drawings.
   2. Changes made by Change Order or Construction Change Directive.
   3. Changes made following Engineer/Architect's written orders.
   4. Details not on the original Contract Drawings.

E. Mark the Contract Drawings or Shop Drawings, whichever is most capable of showing actual physical conditions, completely and accurately. If Shop Drawings are marked, show cross-reference on the Contract Drawings.

F. Mark important additional information that was either shown schematically or omitted from original Drawings.

G. Note Construction Change Directive numbers, alternate numbers, Change Order numbers, and similar identification, where applicable.

3.03 RECORD CAD DRAWINGS: IMMEDIATELY BEFORE INSPECTION FOR CERTIFICATE OF SUBSTANTIAL COMPLETION, REVIEW MARKED-UP RECORD PRINTS WITH ARCHITECT AND OWNER'S REPRESENTATIVE. WHEN AUTHORIZED, PREPARE A FULL SET OF CORRECTED CAD DRAWINGS OF THE CONTRACT DRAWINGS, AS FOLLOWS:

A. Format: Same CAD program, version, and operating system as the original Contract Drawings.

B. Incorporate changes and additional information previously marked on Record Prints. Delete, re draw, and add details and notations where applicable.
   1. Refer instances of uncertainty to Architect through Owner's Representative for resolution.

C. Owner will furnish Contractor one set of CAD Drawings of the Contract Drawings for use in recording information.
   1. Architect makes no representations as to the accuracy or completeness of CAD Drawings as they relate to the Contract Drawings.
   2. CAD Software Program: The Contract Drawings are available in Auto CAD 2007.

3.04 FORMAT

A. Identify and date each Record Drawing; include the designation "PROJECT RECORD DRAWING" in a prominent location. Contractor shall certify and sign.

B. Record Prints: Organize Record Prints and newly prepared Record Drawings into manageable sets. Bind each set with durable paper cover sheets. Include identification on cover sheets.

C. Record CAD Drawings: Organize CAD information into separate electronic files that correspond to each sheet of the Contract Drawings. Name each file with the sheet identification. Include identification in each CAD file.

D. Identify Record Drawing as follows:
   1. Project name.
      a. Date.
      b. Designation "PROJECT RECORD DRAWINGS."

c. Name of Architect and Owner's Representative.
d. Name of Contractor.
e. Contractor shall certify and sign each drawing

3.05 MAINTENANCE OF RECORDS

A. The Contractor shall maintain the records required in Title 29 CFR 1926.1101 (n) and Part 56 of Title 12 of the Official Compilation of Codes, Rules and Regulations of the State of New York.

B. The Contractor shall provide the Owner and Engineer with two electronic copies (disk in pdf format) and Two (2) printed copies of all records.

3.06 OPERATION AND MAINTENANCE DATA FOR MATERIALS AND FINISHES

A. For Each Product, Applied Material, and Finish:

B. Instructions for Care and Maintenance: Manufacturer's recommendations for cleaning agents and methods, precautions against detrimental cleaning agents and methods, and recommended schedule for cleaning and maintenance.

C. Where additional instructions are required, beyond the manufacturer's standard printed instructions, have instructions prepared by personnel experienced in the operation and maintenance of the specific products.

3.07 WARRANTIES AND BONDS

A. Obtain warranties and bonds, executed in duplicate by responsible Subcontractors, suppliers, and manufacturers, within 10 days after completion of the applicable item of work. Except for items put into use with Yonkers Public School District's permission, leave date of beginning of time of warranty until the Date of Substantial completion is determined.

B. Verify that documents are in proper form, contain full information, and are notarized.

C. Co-execute submittals when required.

D. Retain warranties and bonds until time specified for submittal.

END OF SECTION

SECTION 04 5000
MASONRY

PART 1 - GENERAL

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

1.2 DESCRIPTION OF WORK
A. Remove and restore exterior masonry where new cap flashings are being installed.
B. Prepare and repoint mortar joints.
C. Prepare and reseal joints in the precast masonry band and the facade control joints.
D. Install clear water repellant on exterior masonry that has been repointed.
E. Carefully dismantle and rebuild exterior masonry where indicated.
F. Install cement based waterproofing on properly prepared surfaces.

1.3 RELATED WORK SPECIFIED ELSEWHERE
A. PVC Roofing - Section 07 54 19
B. Sheet Metal Flashing & Specialties - Section 07 62 00
C. Roof Accessories - Section 07 72 00

1.4 QUALITY ASSURANCE
A. Installer Qualifications:
   1. A firm (Installer) with not less than 5 continuous years experience performing masonry work similar to that required for this project, employing skilled personnel.
      a. The Installer shall directly employ the personnel performing the work of this section.
      b. The Installer shall have a full time supervisor/foreman on the roof when roofing work is in progress. The Supervisor shall have a minimum of 5 years experience in roofing work similar in nature and scope to this project, and speak fluent English.
   2. The Installer shall provide a reference list of at least three projects of comparable size and similar design, within a fifty mile radius of this project, which may be observed by representatives of the Owner:
      a. The reference list shall include at a minimum, the completion date, a description of the work performed, the Owner's name - contact person - phone number and address and the Architect's name - contact person and phone number.
      b. The Installer shall provide the reference list prior to contract award if requested.
B. Material Quality: Obtain each type of material from a single source to ensure consistent quality, color, pattern, and texture.
C. Pre-Work Conference: Attend the pre-roofing meeting and discuss the following:
   1. How masonry work will be performed and coordinated with other work.
   2. How the building will be kept watertight as masonry work progresses.
   3. The construction schedule, forecast weather, availability of materials, personnel, equipment and facilities needed to proceed and complete the work on schedule.
   4. A schedule for Architect and Owner inspections.

1.5 SUBMITTALS
A. Submit the following items far enough in advance to obtain approval prior to performing any work on site:
   1. Pre-work site and building inspection report with photos, to document conditions before work starts.

2. Manufacturer's literature for all materials, including recommended installation procedures.
3. Test reports and certifications substantiating compliance with specification requirements.
4. Samples to show sizes, grade and color, prior to mock-up erection, of each new exposed masonry material. Include the full range of colors and textures needed in the samples.
   a. Bricks: not less than 4 units.
   b. Mortar: 6 inch long 1/2 inch wide strips set in metal or plastic channels.
   c. Anchors: each type of anchor.
5. Material Safety Data Sheets.

B. Simultaneously provide all Material Safety Data Sheets needed for this project, for all specification sections - collated by section, in three ring binders. Provide two binders for each building / school.

C. Simultaneously provide all technical submittals needed for this project, for all technical sections, collated by section.
   1. Technical submittals shall be prepared and made by the firm that will perform the actual work.

D. Payment requisitions will not be processed until all submittals are received and approved.

1.6 JOB MOCK UP

A. Prepare, in actual job locations, mock-ups of masonry work.
   1. For brick rebuilding - provide 4 foot long mockups.
   2. For repointing - provide 2 foot square mockups to show how the joints will be cut, and 2 foot square mockups to show new pointing.
   3. For sealant joints - provide 4 foot long mockups.

B. Construct each mock up with its associated roof and wall flashings, to show the following:
   1. The color, size and type of each masonry unit and mortar used to set it, and quality of workmanship.
   2. The size and spacing of weep holes.
   3. How flashings will be built into the masonry.
   4. Other related materials and their installation techniques to fully establish a quality standard for the work.

C. The purpose of each mock-up is to establish the minimum acceptable standard of materials and workmanship, and assure that completed work which matches the mock ups will be fully functional and serve the purpose for which it was designed.

D. Approved mock-ups may be left in place and incorporated into the permanent installation. Rejected mock-ups shall be removed and replaced until approved.

E. Do not proceed with masonry work until mock-ups are installed, inspected and approved in writing.

1.7 DELIVERY, STORAGE AND HANDLING

A. Carefully pack, handle, and ship masonry units and accessories strapped together in suitable packs or pallets or in heavy cartons.

B. Deliver material to the site in the Manufacturer's original and unopened containers and packaging, bearing labels which identify the type and names of the products and Manufacturers. Unload and handle to prevent chipping and breakage.

C. Protect masonry materials and aggregates during storage and construction from excess wetting by rain, snow or ground water, and from staining or intermixture with earth or other types of materials.

D. Protect grout, mortar and cement products from deterioration by moisture and temperature. Store in a dry location or in waterproof containers. Protect liquid components from freezing.

E. Do not overload the structure when storing materials on the roof.

1.8 GUARANTEE

A. Provide a Contractor's written Guarantee which warrants that all work will remain free of material and workmanship defects and in a watertight condition for a five year period beginning upon Final Completion:
   1. Defective work includes but is not limited to the following types of failure: leakage, delamination, lifting, loosening, splitting, cracking, and undue expansion.
   2. The Contractor's Guarantee shall provide that the Contractor will make the repairs and modifications necessary to enable the work to perform as warranted at his own expense:
   3. The Guarantee shall include the removal and replacement of items or materials installed as part of the original work, if removal is needed to affect guaranteed repairs.

B. Provide one Contractor's Guarantee that covers "all work performed" when a single contract is awarded for work specified in multiple Sections.

C. The Contractor's Guarantee shall be issued no more than 30 days before the satisfactory completion of punch list work.

D. The Contractor's Surety Company may add a rider to the Performance Bond which clarifies that Performance Bond Coverage expires two years after Final Completion; i.e., Performance Bond Coverage does not run for the entire five year term of the Contractor's Guarantee.

1.9 JOB CONDITIONS

A. Perform masonry work only when the air temperature is 40 degrees F and above and will remain so until the masonry has dried, but for not less than 72 hours after completion.

B. Erect temporary covers over pedestrian walkways and at building entrances and exits which will remain active as the work progresses.

C. Prevent mortar from staining the face of surrounding masonry and other building surfaces, immediately remove any which falls or spills. Protect sills, ledges and projections from mortar droppings.

D. Coordinate masonry removal and restoration with the installation of new metal and membrane flashings.

PART 2 - PRODUCTS

2.1 MASONRY MATERIALS

A. Face Brick: Severe weather (SW) Grade face brick and accessories, including special bricks for corners, and other special shapes, to match the color, surface texture, shape and size of existing adjacent brick.

2.2 MORTAR

A. General Construction Mortar:
   1. Type S, custom colored, non-staining masonry cement containing Type I Portland cement meeting ASTM C150 and Type S hydrated lime meeting ASTM C207.
   2. Natural or manufactured sand aggregate selected to match the size, texture, graduation and color of the existing mortar aggregate, meeting ASTM C 144.
   3. Clean potable water, free of oils, acids, alkalis and organic matter.

B. Pointing Mortar:
   1. Factory blended Type N masonry cement, aggregate and custom coloring agent, ready to use when mixed with clean potable water, as supplied by Spec-Mix.

2.3 MISCELLANEOUS MATERIALS

A. Anchors: Fabricated from Type 304 stainless steel to match existing.

B. Sealant: High performance, solvent free, formulated and moisture curing silyl-terminated polyether sealant, ASTM C-920, Type S, Grade NS, Class 25, NovaLink construction sealant by ChemLink, color as selected.
C. Backer Rod: Closed cell polyethylene foam, non-absorbent, compressible, chemically inert rod.
D. Masonry Water Repellent: Cloudy odorless water-based penetrating liquid, UV stable, alkali resistant, translucent floural carbon emulsion, containing no volatile organic compounds: Cathedral Stone Products, Inc. R-97 Water Repellent.
E. Weeps: Full height head joint inserts formed of a polypropylene honey comb, three-eighths inch thick, Hohmann & Barnard, Inc. #QV Quadro-Vent.
F. Cement based waterproofing: Natural cement colored paste for application using a 4-knot brush, Thoro System Thoro-Seal.

PART 3 - EXECUTION

3.1 GENERAL

A. Carefully perform work so the structural integrity of adjoining masonry is preserved. Simultaneously remove limited sections of existing masonry; support and protect masonry remaining next to and above the removal areas.
B. Completely remove and replace any existing masonry that moves or if cracks form in the mortar joints or between the masonry units.
C. Cure all mortar by misting it with water to maintain it in a damp condition for not less than 72 hours. Shield fresh mortar from direct sunlight with wet burlap, and prevent fresh mortar from prematurely drying during the curing period. Remove and replace mortar joints that dry prematurely.
D. Cut and remove existing masonry using hand and machine methods. Equip each machine with a separate dedicated vacuum. Use each machine manufacturer's blade guard vacuum attachment and control the amount of dust produced so there are no visible plumes.

3.2 MORTAR MIXES

A. Measurement and Mixing:
    1. Measure general construction mortar materials when dry by volume. Do not measure with a shovel, use a pail or similar container.
        a. Mix mortar using 1 part mortar cement and 3 parts sand aggregate.
        b. Thoroughly mix cement and aggregate in a clean mechanical batch mixer before adding water; then continue mixing and add only enough water to produce a workable mix. Do not mix mortar by hand.
    2. Mix factory blended pointing mortar in a clean mechanical batch mixer, adding only enough water to produce a workable mix. Do not mix mortar by hand.
    3. Use mortar within 45 minutes of final mixing; do not re-temper or use partially hardened material.
B. Mix and install mortar with the same ingredients used to produce the approved mock-up. Do not adjust the color or proportions without written approval. Do not use admixtures of any kind in the mortar unless specifically approved.

3.3 BRICK REMOVAL AND REPLACEMENT

A. Carefully remove bricks on a piece-by-piece basis. Cut out full units from joint to joint and to permit replacement with full size units. Clean the edges of remaining bricks, to remove all mortar, dust, and loose debris in preparation for rebuilding.
B. Simultaneously remove limited sections of existing masonry; support and protect masonry remaining next to and above the removal areas.

C. Install new cap flashings, and wall flashing extensions, properly connected to the existing wall flashings, as indicated on the drawings and specified elsewhere before installing new bricks.
D. Wet bricks which have initial rates of absorption (suction) greater than 30 grams per 30 square inches per minute, (in accordance with ASTM C 67), to ensure the bricks are nearly saturated with water, but surface dry when laid.
E. Install new brick to replace removed brick. Fit replacement bricks to match the original bond and course pattern. Use a motor driven diamond blade wet saw to cut bricks with clean, sharp unchipped edges.
F. Lay replacement brick with completely filled bed, head and collar joints. Butter the ends with sufficient mortar to fill the head joints and shove the bricks into place.
G. Install new bricks with mortar joints to match the width of the adjoining brick joints. Tool the new joints to match existing joints in surrounding brickwork.

3.4 REPOINTING EXISTING MASONRY

A. Joint Preparation:
   1. Remove existing mortar and foreign material from the mortar joints to a minimum depth of 1 inch, and deeper where needed to expose sound unweathered mortar.
   2. Remove mortar from the sides of the joints to provide joints with square backs and to expose the masonry for contact with the pointing mortar. Brush or vacuum the joints to remove dirt and loose debris.
   3. Remove mortar and other foreign material from the surface of the masonry at the joint.
   4. Do not spall the edges of adjoining masonry or widen the joints. Replace any masonry which is damaged.
B. Joint Pointing:
   1. Rinse the joint surfaces with water to remove dust and mortar particles just prior to repointing. Time the rinse, so when repointing occurs, excess water has evaporated and joint surfaces are damp but free of standing water.
   2. Apply pointing mortar in 1/2 inch thick layers, and thoroughly compact each layer before adding the next layer, to completely fill each joint.
   3. Slightly recess pointing mortar from the face of the adjoining masonry units. Do not spread mortar on the edges or faces of the masonry. Do not featheredge the mortar.
   4. Tool repointed joints to match the appearance of adjoining joints when the mortar is thumbprint hard. Remove excess mortar from the edges of the joints with a soft bristle brush.
C. Cleaning:
   1. Immediately after the mortar has fully hardened, thoroughly clean exposed masonry surfaces of excess mortar and foreign matter using stiff nylon or bristle brushes and clean water, spray applied at low pressure.
   2. Do not use metal scrapers or brushes. Do not use acid or alkali cleaning agents.

3.5 SEALANT JOINTS

A. Carefully remove existing sealant and back up material from within masonry control and expansion joints to a minimum depth of 1-1/2 inches, and from the surface of the masonry at the edges of the joints.
   1. Use hand tools and work to avoid damage to the adjoining masonry.
   2. Replace adjoining masonry damaged during sealant removal work.
B. Install new backer rod without puncturing or tearing it, to snuggly fill the joint at a depth to yield a sealant joint twice as wide as it is deep.
   1. Do not twist backer rods, or install multiple pieces of undersized rod, when the correct size rod is not onsite.
C. Mask the edges of all joints prior to installing sealant.

1. Push sealant into the joint to completely fill it, tool the sealant to produce a slightly concave, neat recessed joint, and remove joint masking before excess sealant sets.

3.6 WATER REPELLENT

A. Prepare and clean masonry surfaces to receive water repellent utilizing hand, chemical and pressure water methods as needed to remove all dirt, dust, efflorescence, mold, salt, grease, oil, asphalt, laitance, paint and other foreign materials.
B. Allow the surface to dry for a minimum of 48 hours at a temperature above 50° F.
C. Mask and protect adjoining surfaces i.e., the roof, flashings, windows, side walls and site plantings from over spray.
D. Apply water repellent using a low pressure (15-20 psi maximum) wet fan type nozzle or 1 inch nap roller in a “flooding” application starting at the bottom so the material runs 6 to 8 inches below the points of application.

3.7 CLEANING, PROTECTION AND WATERTIGHTNESS

A. Conduct an inspection of the interior and exterior of the building and grounds, and submit a written report with photos to document any pre-existing leakage or damage, prior to performing any work.
B. The Owner will conduct a similar inspection at the completion of the work, and the Contractor will be charged for all leakage or damage which was not documented in the Contractor’s report, or repaired to the Owners satisfaction at the Contractor’s expense.
C. Provide any equipment, material and labor necessary to protect the site, the building, its contents and occupants, pedestrians, and surrounding landscaped and paved areas from damage due to the construction work or from inclement weather during construction.
D. Do not perform work during inclement weather. Protect incomplete work and the building from damage by inclement weather which may occur unexpectedly. Make all work areas watertight at the end of each day's work.
E. Frequently clean up all refuse, rubbish, scrap materials and debris so the work site presents a neat, orderly and workmanlike appearance.
F. Carefully clean the roof to remove all residual debris when work is complete. After cleaning the roof, thoroughly clean all drain sumps, drain lines, leader heads and leaders. Do not allow debris to enter the drainage system.

END OF SECTION

SECTION 07 5419
PVC ROOFING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 DESCRIPTION OF WORK

A. Perform localized rehabilitation work and restore the existing PVC roofing system to a watertight condition.

B. Install new flashings at the new roof drains and other locations indicated.

C. Provide any mechanical, electrical, hoisting and other work needed, and remove, adjust, modify, reset and reconnect all roof-mounted and roof-penetrating devices.

1.3 RELATED WORK SPECIFIED ELSEWHERE

A. Masonry -Section 04 5000

B. Sheet Metal Flashing & Accessories - Section 07 6200

C. Roof Specialties - Section 07 7200

1.4 CODE APPROVAL REQUIREMENTS

A. Install roofing and insulation system components to meet the following minimum requirements:

1. New York State Uniform Fire Prevention and Building Code.

2. Underwriters Laboratories Inc. Class A fire rating for Roof Covering Materials.

B. Provide written certification from the material Manufacturer, before beginning work, to confirm the roofing system meets these requirements.

1.5 QUALITY ASSURANCE

A. Installer Qualifications:

1. A firm (Installer) with at least 5 continuous years of experience performing PVC roofing work similar to that required for this project, employing skilled personnel.
   a. The Installer shall directly employ the personnel performing the work of this section.
   b. The Installer shall have a full-time supervisor/foreman on the roof when roofing work is in progress. The Supervisor shall have a minimum of 5 years experience in roofing work similar in nature and scope to this project, and speak fluent English.
2. The Installer shall provide a reference list of at least three projects of comparable size and similar design, where he has installed PVC roofing within fifty miles of this project, which may be observed by representatives of the Owner:
   a. The reference list shall include at a minimum, the completion date, a description of the work performed, the Owner’s name - contact person - phone number and address and the Architect’s name - contact person and phone number.
   b. The Installer shall provide the reference list prior to contract award if requested.
3. The Installer shall be acceptable to or licensed by the Manufacturer of the primary roofing materials, and provide written certification from the Manufacturer to confirm this prior to award if requested.

B. Material Quality: Obtain each product, including PVC roofing, flashing, primers and adhesives, from a single Manufacturer which has manufactured the same products in the United States of America for not less than 5 continuous years.

C. Pre-Work Conference: Meet at the project site approximately one week prior to starting work, with the Architect, Owner and other representatives concerned about the work, to discuss the following:

1. How the building will be kept watertight as work progresses.
2. How the repairs will be coordinated.
3. Generally accepted industry practice, the Manufacturer's instructions for handling and installing his products, and specified work requirements.

4. The condition of the existing roofing, curbs, penetrations and other preparatory work needed.
5. Submittals, both completed and yet to be completed.
6. The construction schedule, forecast weather, availability of materials, personnel, equipment and facilities needed to proceed and complete the work on schedule.
7. A schedule for Architect inspections.

1.6 SUBMITTALS

A. Submit the following items far enough in advance to obtain approval prior to performing any work:
   1. Pre-work site and building inspection report with photos to document conditions before work starts.
   2. Written certification from the Manufacturer which states that the Installer is acceptable or licensed to install the specified roofing; if not previously provided.
   3. Manufacturer's installation instructions and technical data sheets for each material component of the roofing system. Material sample submittals are not needed.
   4. Sample of the Contractor's guarantee.
   5. Material Safety Data Sheets.

B. Simultaneously provide all Material Safety Data Sheets needed for this project, for all specification sections - collated by section, in three ring binders. Provide two binders.

C. Simultaneously provide all technical submittals needed for this project, for all technical sections, collated by section.
   1. Technical submittals shall be prepared and made by the firm that will perform the actual work.

D. Payment requisitions will not be processed until all submittals are received and approved.

1.7 JOB CONDITIONS (CAUTIONS & WARNINGS)

A. Do not use oil base or plastic roof cement with PVC roofing. Do not allow waste products, (petroleum grease or oil, solvents, vegetable or mineral oil, animal fat) or direct steam venting to come in contact with any roofing, insulation or flashing product. Do not expose PVC roofing and accessories to a temperature in excess of 175 degrees Fahrenheit.

B. Splice cleaner, primers, cements and bonding adhesives are flammable. Do not breathe vapors or use near fire or flame or in a confined or unventilated area. Dispense only from a UL listed or approved safety can.

C. Remove empty adhesive and solvent containers and contaminated rags from the roof daily and legally dispose of them daily.

D. Do not apply adhesives adjacent to open ventilation system louvers, or windows. Temporarily cover the louvers and windows with 6 mil fire retardant polyethylene and prevent adhesive odors from entering the building. Remove temporary covers at the end of each days work.

1.8 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Deliver material to the site in the Manufacturer's original and unopened packaging, bearing labels which identify the type and names of the products and Manufacturers, with the labels intact and legible.

B. Cover all stored materials, except rolls of PVC and sealed cans of adhesives, with watertight tarpaulins installed immediately upon delivery.

C. Immediately remove any insulation which gets wet from the job site.

D. Do not overload the structure when storing materials on the roof.

E. Store and install all material within the Manufacturer's recommended temperature range.

1.9 GUARANTEE

A. Provide a Contractor's written Guarantee which warrants that all work will remain free of material and workmanship defects and in a watertight condition for a five year period beginning upon Final Completion:

1. Defective work includes but is not limited to the following types of failure: leakage, adhesive separation, delamination, lifting, loosening, splitting, cracking, and undue expansion.
2. The Contractor's Guarantee shall provide that the Contractor will make the repairs and modifications necessary to enable the work to perform as warranted at his own expense:
3. The Guarantee shall include the removal and replacement of items or materials installed as part of the original work, if removal is needed to affect guaranteed repairs.

B. Provide one Contractor's Guarantee that covers "all work performed" when a single contract is awarded for work specified in multiple Sections.

C. Contractor's Guarantee shall be issued no more than 30 days before the satisfactory completion of punch list work.

D. Guarantees shall include the removal and replacement of items or materials superimposed over the PVC roof as part of the original work, if removal is needed to make warranty repairs.

E. Guarantee coverage may be cancelled, for the affected portion of the roof, if the work is damaged by winds in excess of 72 mph, by hail, lightning, insects or animals, by failure of the structural substrate, by exposure to harmful chemicals, by other trades on the roof, or by vandalism, or if the Owner fails to maintain the roof in accordance with, or makes roof alterations contrary to, the Manufacturers printed recommendations.

F. Guarantee coverage shall be reinstated, for the remainder of the original term, if the Owner restores the roof to the condition it was in prior to the damage occurring.

G. The Contractor's Surety Company may add a rider to the Performance Bond which clarifies that Bond Coverage expires two years after Final Completion; i.e., Performance Bond Coverage does not run for the entire five year term of the Contractor's Guarantee.

1.10 SUBSTITUTIONS

A. The following factors will be considered when evaluating a possible alternative to the roofing system specified:
1. The wording and intent of the warranty to be issued.
2. The financial status, numbers of years in business and stability of the entity that will issue the warranty.
3. A reference list of at least five completed similar projects of comparable size, with a successful functional history of at least five years, within an approximate fifty mile radius of the Project.
4. Technical aspects of the system, especially relating to durability, serviceability and performance.
5. The capacity and history of the Manufacturer in providing technical response, on-site inspections and assistance.
6. The availability and prior experience of local authorized applicators to install and maintain the proposed alternate system.
7. The willingness and history of the Manufacturer in responding to warranty claims previously made by the Owner, Architect or any Consultant involved in this project.

PART 2 - PRODUCTS

2.1 GENERAL

A. PVC system components are specified as products of Sika Sarnafil Inc. to establish a standard of quality. Equal products and systems will be considered, if offered as a substitute with sufficient data to establish that the substitute meets the criteria established in this specification.

B. Primary products required for this project include:
1. Roof insulation
2. PVC roofing
3. Primers and adhesives
4. Sealants
5. PVC flashing
6. Fasteners

2.2 MATERIALS:

A. Insulation: Isocyanurate: Rigid cellular polyisocyanurate boards with fibrous felt/fiberglass mat facers, minimum compressive strength 20 psi, meeting ASTM C1289-01, Type II, Class 1, Grade 2, as manufactured by Sarnafil under the trade name Sarnatherm, thickness to match existing.

B. Insulation adhesive: Two component low rise elastomeric foam adhesive, installed with a mixing extruding dispenser (a Pace Cart or Heated Pleural Extruding Spray Rig) intended for application at the temperatures that will be encountered.

C. PVC: .060 inches thick, fire retardant, fiberglass reinforced, PVC (polyvinyl chloride) G410 lacquer coated sheet membrane conforming to the following minimum physical properties:

Properties	ASTM Test Method	Minimum Property
Fiberglass Reinforcing Material		
Overall Thickness, min., inches	D638	0.060
Tensile Strength, min., psi	D638	1500
Elongation at Break, min. (machine x transverse)	D638	250% X 230%
Seam strength, min. (% of tensile strength)	D638	75
Properties after Heat Aging per D3045	-	-
Tensile Strength, min. % of original	D638	90
Elongation, min. % of original	D751	90
Tearing Resistance, min., lbf	D1004	10
Low Temperature Bend @ -40ºF	D136	Pass
Accelerated Weathering Test, Xenon Arc	D2565	5,000 Hrs
Cracking @ 7x magnification	-	None
Discoloration by observation	-	Negligible
Crazing @ 7 x magnification	-	None
Linear Dimensional Change, max.	D1204	0.10%
Weight Change after Immersion in Water, max.	D570	± 3.0%
Static Puncture Resistance, 33 lbf	D5602	Pass
Dynamic Puncture Resistance, 7.3 ft-lbf	D5635	Pass
Color: white		
UL Class A External Fire Rating		

2.3 RELATED MATERIALS

A. Cleaners, adhesives, sealants, caulking and fasteners furnished by the PVC system Manufacturer and as listed below. Use low VOC adhesives and cleaners as required by regulations in effect at the time of application.

1. Wall and Curb Flashing: G410 fiberglass reinforced PVC, color to match the color of the roof
2. Pitch Pocket Filler: Two component urethane sealant.
3. Corners: Prefabricated outside and inside flashing corners made of 60 mil thick unreinforced PVC, color to match the color of the roof.
4. Sealant: One component acrylic-based resin blended with solvent and inorganic adhesives.
5. PVC Adhesive: Solvent-based reactivating-type adhesive, Sarnacol 2170.
6. Insulation Plates: 3 inch square, 26 gauge stamping of SAE 1010 steel with an AZ 55 Galvalume coating.
7. Fasteners: #14 corrosion-resistant screws.
8. Aluminum Tape: 2 inch wide pressure-sensitive aluminum tape.
9. Solvent Cleaner: One component liquid for the general cleaning of residual asphalt, scuff marks, etc., from the membrane surface and to clean seam areas prior to hot-air welding.

PART 3 - EXECUTION

3.1 GENERAL

A. Perform localized rehabilitation work as indicated on the drawings to restore the existing roof to a water tight condition.

B. Perform work in areas with roof mounted mechanical equipment, so the work coincides with equipment shutdown periods and does not affect building occupants. Temporarily cover and protect equipment openings, and windows adjoining the work area, with 6 mil fire retardant polyethylene, so dirt, dust and odors do not enter the equipment or building. Remove covers at the end of each workday, and as soon as roof work is complete.

C. Clean the surface on which roofing system components will be applied, of all laitance, dirt, oil, grease or other foreign matter which would in any way affect the quality of the installation.

D. Install components of the roof system on dry surfaces only. Do not install any items when weather conditions and outside temperatures are not suitable in accordance with the Manufacturer's recommendations.

E. Complete all work in sequence as quickly as possible so that as small an area as practicable is in the process of construction at any one time. Complete the entire area of work begun each day, the same day, and make all exposed edges watertight at the end of each day's work.

3.2 ROOF CLEANING AND INSPECTION

A. Carefully power-wash all roof areas to remove dirt and algae growth from the existing PVC roofing.

B. Carefully inspect the PVC roofing and rework open seams, failed stripping and flashings, holes, cuts, and any other damage. Replace previous patches made with non-PVC products, using heat welded target patches, and restore the roof to a water tight condition.

C. Refer to the drawings for the locations, extent and quantity of repairs to be included in the Base Bid.

D. Immediately notify the Architect and Owner by telephone and in writing if additional defects are found that require repairs above what is specified.

E. Maintain the building watertight in the interim, but do not proceed with additional work unless authorized by the Architect or Owner.

3.3 PVC REPAIRS

A. General:
   1. Clean the existing PVC surfaces prior to hot-air heat welding new PVC flashings, stripping or target patches. Weld dry surfaces only.
   2. Hot-air weld all new PVC roof and flashing, stripping or target patches with seams that finish 3 inches wide when automatic machine welded and 4 inches wide when hand welded.
   3. Use welding equipment that is provided by or approved by the material Manufacturer.
   4. Perform welding only using personnel that have successfully completed a training course provided by a Manufacturer’s Technical Representative.
   5. Allow hot air welding equipment to warm up for at least one minute prior to welding.

B. Hand Welding:
   1. Complete hand welded seams in two stages.
   2. Form a narrow but continuous weld to close the back edge of the seam, and prevent loss of hot air during the final welding.
   3. Insert the nozzle into the seam at a 45 degree angle to the edge of the membrane. Heat the PVC until it begins to “flow,” then press the PVC sheets together, and use a hand roller to rub the seam.
   4. Use a 1-1/2 inch wide nozzle for straight seams. Use a 3/4 inch wide nozzle for corners and compound seams.

C. Machine Welding:

1. Form machine welded seams using automatic welding equipment. Follow the machine Manufacturers instructions and local codes for electric current supply, grounding and over current protection. Utilize a dedicated circuit if connected to house power, or provide a dedicated portable generator. Do not run other equipment off the generator used to power the automatic welding machine.
2. Use metal tracks laid on the membrane, under the machine welder to eliminate wrinkles.

D. Quality Control of Welded Seams:
1. Visually inspect all seams as they are formed, and then check the entire length of each seam for continuity using a rounded cotter pin removal tool.
   a. Evidence that welding is proceeding correctly, is visible smoke during the welding operation, shiny membrane surfaces, and an uninterrupted flow of a small amount of dark gray material from the underside of the top PVC sheet.
2. Evaluate all welded seams each day as they are formed, and at locations as directed by the Owner's or the Manufacturer's representatives.
   a. Cut and examine 1 inch wide cross section samples of welded seams at least three times a day. Correct welds display failure from shearing of the PVC sheet, prior to separation of the weld. Install a target patch over each test cut.

3.4 FLASHING REHABILITATION WORK

A. Cut out and remove areas with damaged flashings and flashings with bridging. Allow the exiting PVC roofing to relax before fastening.
B. Fasten the existing PVC roofing along the base transition with a continuous termination bar positioned either on the wall or curb, or on the deck, secured with the appropriate fasteners spaced 12 inches on center.
C. Fully adhere the new flashings to compatible, dry, smooth, and clean surfaces, by applying adhesive in smooth, even coats with no gaps, globs or similar inconsistencies. Press the sheet firmly in place and thoroughly roll it with a hand roller.
D. Do not apply adhesive on seam areas that are to be welded. Overlap edges of adjoining flashing sheets a minimum of 4 inches. Hot air weld all flashing seams.
E. Install factory prefabricated corners on all inside and outside corners.
F. Mechanically fasten the top edge of all flashings 6 inches on center.

3.5 MISCELLANEOUS

A. Provide any miscellaneous roofing, flashing, caulking, and metal work needed to leave the work complete and entirely watertight, neatly and carefully executed in a thorough and workmanlike manner.
B. Perform work on mechanical and electrical items using mechanics skilled and licensed in these trades. Provide new material, couplings, transition pieces, blocking, fasteners and the like needed to complete the work.

3.6 CLEANING, PROTECTION AND WATERTIGHTNESS

A. Inspect the interior and exterior of the building and grounds, and submit a written report with photos to document any existing leakage or damage, prior to performing any other work.
B. The Owner will conduct a similar inspection at the completion of the work, and the Contractor will be charged for all leakage or damage which was not documented in the Contractor's report, or repaired to the Owners satisfaction at the Contractor's expense.
C. Provide any equipment, material and labor necessary to protect the site, the building, its contents and occupants, pedestrians, and surrounding landscaped and paved areas from damage due to the construction work or from inclement weather during construction.
D. Do not perform work during inclement weather. Protect incomplete work and the building from damage by inclement weather which may occur unexpectedly. Make all work areas watertight at the end of each day's work.

E. Frequently clean up all refuse, rubbish, scrap materials and debris so the work site presents a neat, orderly and workmanlike appearance.

F. Carefully clean the roof to remove all residual debris when work is complete. After cleaning the roof, thoroughly clean all drain sumps, drain lines, leader heads and leaders. Do not allow debris to enter the drainage system.

END OF SECTION

SECTION 07 62 00
SHEET METAL FLASHINGS & SPECIALTIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 DESCRIPTION OF WORK

A. Sheet metal work that is compatible with the roofing systems specified, including cap flashings, door saddle flashings, chimney caps, and miscellaneous flashings.

1.3 RELATED WORK SPECIFIED ELSEWHERE

A.	Masonry	- Section 04 50 00
B.	PVC Roofing	- Section 07 54 19
C.	Roof Accessories	- Section 07 20 00

1.4 CODE APPROVAL REQUIREMENTS

A. Fabricate and install roof perimeter flashings that comply with the NY State Uniform Fire Prevention and Building Code and ANSI/SPRI ES-1 requirements.

1.5 QUALITY ASSURANCE

A. Installer Qualifications:
   1. A firm (Installer) with not less than 5 continuous years experience performing Sheet Metal work similar to that required for this project, employing personnel skilled in the specified work.
      a. The Installer shall directly employ the personnel performing the work of this section.
      b. The Installer shall have a full time supervisor/foreman on the roof when work is in progress. The Supervisor shall have a minimum of 5 years experience in work similar in nature and scope to this project, and speak fluent English.
   2. The Installer shall provide a reference list of at least three projects of comparable size and similar design, within a fifty mile radius of this project, which may be observed by representatives of the Owner:
      a. The reference list shall include at a minimum, the completion date, a description of the work performed, the Owner’s name - contact person - phone number and address and the Architect’s name - contact person and phone number.
      b. The Installer shall provide the reference list prior to contract award if requested.

B. Material Quality:
   1. Obtain each product from a single Manufacturer which has manufactured the same product in the United States of America for not less than 5 continuous years.
   2. Obtain copper and pre-finished sheet metal items from the same mill run to maintain consistent color hue and surface finish.

C. Pre-Work Conference: Meet at the project site approximately one week prior to starting work, with the Architect, Owner and other representatives concerned about the work, to discuss the following:
   1. How the building will be kept watertight as work progresses.
   2. Generally accepted industry practice, the Manufacturer's instructions for handling and installing his products, and specified work requirements.
   3. Submittals, both completed and yet to be completed.
   4. The construction schedule, forecast weather, availability of materials, personnel, equipment and facilities needed to proceed and complete the work on schedule.

5. A schedule for Architect inspections.

1.6 SUBMITTALS

A. Submit the following items far enough in advance to obtain approval prior to performing any work:
   1. Pre-work site and building inspection report with photos to document conditions before work starts.

   2. Shop drawings, or 2 foot long samples, for each sheet metal item, to show how it relates and fits on adjoining masonry and wood blocking assemblies, and with the roof, stripping, and flashings.

   3. A 6 inch square piece of each type of sheet metal to show surface finish, texture and color.

   4. Literature for each type of sheet metal, sealant and fastener, including the Manufacturer's instructions which show how to install the items, and form and seal joints.

   5. A sample of the Contractor’s guarantee form.

   6. Material Safety Data Sheets.

B. Simultaneously provide all Material Safety Data Sheets needed for this project, for all specification sections - collated by section, in three ring binders. Provide two binders for each building / school.

C. Simultaneously provide all technical submittals needed for this project, for all technical sections, collated by section.
   1. Technical submittals shall be prepared and made by the firm that will perform the actual work.

D. Payment requisitions will not be processed until all submittals are received and approved.

1.7 JOB MOCK-UPS

A. After the submittals are approved, prepare in actual job locations, mock-ups of cap and door flashings, and all other items of sheet metal and related work, for inspection and approval by the Architect.

B. Construct each mock-up of two full lengths of metal, fastened, connected and stripped-in to the related roofing system, to show the following:
   1. Type, gauge, color, cross-sectional dimensions and shape, and joint and mitering techniques.
   2. Related masonry work, wood blocking, and the attachment techniques and fasteners for all wood and metal components.
   3. Other sheet metal related materials and their installation techniques to fully define the detailing of each mock-up.

C. The purpose of each mock-up is to establish the minimum standard of materials and workmanship, and to assure that completed work which matches the mock-ups will be fully functional and serve the purpose for it has been designed.

D. Approved mock-ups may be left in place and incorporated into the permanent installation. Rejected mock-ups shall be removed and replaced until approved.

E. Do not purchase or fabricate sheet metal items until mock-up installation, inspection and approval are completed and approval is documented in writing.

1.8 GUARANTEE

A. Provide a Contractor's written Guarantee which warrants that all work will remain free of material and workmanship defects and in a watertight condition for a five year period beginning upon Final Completion:
   1. Defective work includes but is not limited to the following types of failure: leakage, adhesive separation, delamination, lifting, loosening, splitting, cracking, and undue expansion.
   2. The Contractor's Guarantee shall provide that the Contractor will make the repairs and modifications necessary to enable the work to perform as warranted at his own expense.
   3. The Guarantee shall include the removal and replacement of items or materials installed as part of the original work, if removal is needed to affect guaranteed repairs.

B. Provide one Contractor's Guarantee that covers "all work performed" when a single contract is awarded for work specified in multiple Sections.

C. The Guarantee shall be issued no more than 30 days before the satisfactory completion of punch list work.

D. The Contractor's Surety Company may add a rider to the Performance Bond which clarifies that Bond Coverage expires two years after Final Completion; i.e., Performance Bond Coverage does not run for the entire five year term of the Contractor's Guarantee.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Copper sheet: ASTM B370, 99.0 % pure copper, thickness 16 ounces per square foot.
   1. Use copper for all metal items not otherwise indicated

B. Zinc-Tin coated copper: copper sheet, coated on both sides, with a smooth uniform coating of zinc and tin, base metal weight 16 ounces per square foot, cold rolled temper, available as FreedomGray Copper by Revere.

C. Solder:
   1. 50-50 tin and lead for plain copper, supplied in one pound bars with the alloy mixture stamped into the bar by the Manufacturer.
   2. Lead free / or pure tin solder for zinc-tin coated copper, Number 497 by Johnson Manufacturing.

D. Flux:
   1. Water-Soluble Liquid Flux, Kester #3345 for iron soldering of brass and copper.
   2. Tin-bearing flux such as "Flux-N-Solder E127 with pure tin" by Johnson Manufacturing.

E. Fasteners: stainless steel, or to match the sheet metal being fastened.

F. Glass Cloth: open mesh glass fabric coated on each side with plasticized asphalt as manufactured by Karnak Corporation or equal.

G. Asphalt cement: Federal Specification SS-C-153B, Type 1, asbestos free grade.

H. Sealant: High performance, solvent free, formulated and moisture curing silyl-terminated polyether sealant, ASTM C-920, Type S, Grade NS, Class 25, NovaLink construction sealant by ChemLink, color as selected.

PART 3 - EXECUTION

3.1 GENERAL

A. Accurately reproduce the details and design shown, and form profiles, bends and intersections, sharp, true and even. Fabricate sheet metal in the shop whenever possible, and form joints, laps, splices and connections to shed water and condensation in the direction of flow.

B. Provide any miscellaneous flashing and sheet metal work not shown on the drawings but otherwise needed to leave the project complete and entirely watertight, neatly and carefully executed in a thorough and workmanlike manner.

3.2 INSPECTION

A. Examine surfaces to receive work of this section and report any defects to the Owner. Commencement of work will be construed as complete acceptance of surfaces.

3.3 INSTALLATION

A. Fabricate and install copper work in accordance with the current edition of "Copper and Common Sense" as published by the Revere Copper and Brass Company, unless otherwise indicated.
   1. Form all joints, except loose locked sealant filled expansion joints, to overlap 2 inches.
   2. Secure the joints with rivets spaced 1 inch on center positioned about 1/2 inch from the top edge of the joint, then sweat solder the joint.
   3. Use solder only to fill and seal the joint, not for mechanical strength. Form soldered joints continuous, strong and free from defects, with well heated soldering irons. Do not use open flame torches for soldering.
   4. Clean soldered joints daily, immediately after soldering, by washing them with soap and water applied with a soft bristle brush, then rinsing with clear water.

B. Securely fasten and anchor all work, and make provisions for thermal expansion. Submit details of expansion joints for approval. Install fasteners through one edge of metal only, use a hook strip on the other edge.

C. Use stainless steel pin Zamac type nail-in fasteners, or stainless steel screws and washers with neoprene inserts where fasteners will be exposed.

3.4 CAP FLASHINGS

A. Install new copper cap flashings built into masonry walls properly joined to all related materials in a watertight manner.
   1. Solder all joints in the new cap flashing, except form 2 inch wide flat locked sealant filled expansion joints a maximum of 32 feet on center.
   2. Form the flashing to turn up 2 inches inside the wall and finish with a hem on the bottom exposed edge.
   3. Fasten the top edge of the cap flashing to the back up masonry 12 inches on center, and install the new cap flashing under flexible type wall flashings where possible. Where it is not possible to lap the new cap flashing under an existing wall flashing, install a ply of glass cloth set in and coated with asphalt cement to connect the new cap flashing to the existing wall flashing.
   4. In the absence of an existing wall flashing, or at a solid masonry wall, turn up the new cap flashing 2 inches behind the first wythe of masonry.
   5. Install new cap flashings where shown on the drawings, and at a height of 10 to 12 inches above the roof surface.

3.5 CHIMNEY CAPS & HOODS

A. Fabricate new chimney caps and hoods from zinc-tin coated copper; to cover the entire top of the chimney, to overlap the exterior bed joint 2 inches, and to extend up and over the flue liners and turn down inside them. Turn the cap down 4 inches inside the chimney if there are no flue liners. Cover all masonry between the flues. Fasten the chimney cap with a hook strip under the outside edge and Zamac type fasteners spaced 12 inches apart along the inside edge if there is no clay flue liner.

B. Position the hood a minimum of 18 inches above the top of the flues to provide adequate exhaust clearance.

C. Support the hood with 1/4 by 1-1/2 inch copper bars, spaced and braced, approximately 12 inches apart at the perimeter of the hood. Tin the bars with solder before installation.

3.6 CLEANING, PROTECTION AND WATERTIGHTNESS

A. Inspect the interior and exterior of the building and grounds, and submit a written report with photos to document any pre-existing leakage or damage, prior to performing any work.

B. The Owner will conduct a similar inspection at the completion of the work, and the Contractor will be charged for all leakage or damage which was not documented in the Contractor's report, or repaired to the Owners satisfaction at the Contractor's expense.

C. Provide any equipment, material and labor necessary to protect the site, the building, its contents and occupants, pedestrians, and surrounding landscaped and paved areas from damage due to the construction work or from inclement weather during construction.

D. Do not perform work during inclement weather. Protect incomplete work and the building from damage by inclement weather which may occur unexpectedly. Make all work areas watertight at the end of each day's work.

E. Frequently clean up all refuse, rubbish, scrap materials and debris so the work site presents a neat, orderly and workmanlike appearance.

F. Carefully clean the roof to remove all residual debris when work is complete. After cleaning the roof, thoroughly clean all drain sumps, drain lines, leader heads and leaders. Do not allow debris to enter the drainage system.

END OF SECTION

SECTION 07 7200
ROOF ACCESSORIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 DESCRIPTION OF WORK

A. Roof specialties which are compatible with the roofing systems specified, including:
   1. Drains, pipe, couplings and insulation.
   2. Galvanized steel roof access ladders.
   3. Roof walkway pads.
   4. Snow guard assemblies.

B. Prepare, prime and paint miscellaneous rooftop items indicated.

1.3 RELATED WORK SPECIFIED ELSEWHERE

A. Masonry - Section 04 50 00
B. PVC Roofing - Section 07 54 19
C. Sheet Metal Flashing & Specialties - Section 07 62 00

1.4 QUALITY ASSURANCE

A. Installer Qualifications:
   1. A firm (Installer) with not less than 5 continuous years experience performing Roof Specialty work similar to that required for this project, employing personnel skilled in the specified work.
      a. The Installer shall directly employ the personnel performing the work of this section.
      b. The Installer shall have a full time supervisor/foreman on the roof when work is in progress. The Supervisor shall have a minimum of 5 years experience in roofing work similar in nature and scope to this project, and speak fluent English.
   2. The Installer shall provide a reference list of at least three projects of comparable size and similar design, within a fifty mile radius of this project, which may be observed by representatives of the Owner:
      a. The reference list shall include at a minimum, the completion date, a description of the work performed, the Owner's name - contact person - phone number and address and the Architect's name - contact person and phone number.
      b. The Installer shall provide the reference list prior to contract award if requested.

B. Material Quality: Obtain each product from a single Manufacturer, which has manufactured the same product in the United States of America for not less than 5 continuous years.

C. Pre-Work Conference: Meet at the project site approximately one week prior to starting work, with the Architect, Owner and other representatives concerned about the work, to discuss the following:
   1. How the building will be kept watertight as work progresses.
   2. Generally accepted industry practice, the Manufacturer's instructions for handling and installing his products, and specified work requirements.
   3. The condition of the substrate (deck), curbs, penetrations and other preparatory work needed.
   4. Submittals, both completed and yet to be completed.
   5. The construction schedule, forecast weather, availability of materials, personnel, equipment and facilities needed to proceed and complete the work on schedule.
   6. A schedule for Architect inspections.

1.5 SUBMITTALS

A. Submit the following items far enough in advance to obtain approval prior to performing any work:
   1. Pre-work site and building inspection report with photos to document conditions before work starts.
   2. Manufacturer's installation instructions and technical data sheets for each item. Material sample submittals are not needed unless requested to show color and texture.
   3. Samples of the Contractor's and Manufacturer's guarantee/warranty forms.
   4. Material Safety Data Sheets.
B. Simultaneously provide all Material Safety Data Sheets needed for this project, for all specification sections - collated by section, in three ring binders. Provide two binders for each building / school.
C. Simultaneously provide all technical submittals needed for this project, for all technical sections, collated by section.
   1. Technical submittals shall be prepared and made by the firm that will perform the actual work.
D. Payment requisitions will not be processed until all submittals are received and approved.

1.6 GUARANTEE

A. Provide a Contractor's written Guarantee which warrants that all work will remain free of material and workmanship defects and in a watertight condition for a five year period beginning upon Final Completion:
   1. Defective work includes but is not limited to the following types of failure: leakage, delamination, lifting, loosening, splitting, cracking, and undue expansion.
   2. The Contractor's Guarantee shall provide that the Contractor will make the repairs and modifications necessary to enable the work to perform as warranted at his own expense.
   3. The Guarantee shall include the removal and replacement of items or materials installed as part of the original work, if removal is needed to affect guaranteed repairs.
B. Provide one Contractor's Guarantee that covers "all work performed" when a single trade contract is awarded for work specified in multiple Sections.
C. The Guarantee shall be issued no more than 30 days before the satisfactory completion of punch list work.
D. Guarantee coverage shall include the removal and replacement of related material installed as part of the original work, if removal is needed to make warranty repairs.
E. Guarantee coverage may be cancelled, for the affected portion of the work, if the work is damaged by winds in excess of 72 mph, by hail, lightning, insects or animals, by failure of the structural substrate, by exposure to harmful chemicals, by other trades or vandalism, or if the Owner fails to maintain the roof and specialties in accordance with, or makes roof alterations contrary to, the Manufacturers printed recommendations.
F. Guarantee coverage shall be reinstated, for the remainder of the original term, if the Owner restores the specialty item to the condition it was in prior to the damage occurring.
G. The Contractor's Surety Company may add a rider to the Performance Bond which clarifies that Bond Coverage expires two years after Final Completion; i.e., Performance Bond Coverage does not run for the entire five year term of the Contractor's Guarantee.

PART 2 - PRODUCTS

2.1 GENERAL

A. Provide the Manufacturer's standard units, modified as necessary to comply with the specified requirements. Fabricate each unit in a shop to the greatest extent possible.

2.2 DRAINS, PIPE, COUPLINGS & INSULATION

A. Conventional cast iron roof drains, installed with drain receivers, under deck clamps if appropriate, cast iron strainers, cast iron clamping rings and factory installed stainless steel gravel screens Series 1011 as manufactured by Jay R. Smith Manufacturing Company.
B. Drain pipe: cast iron pipe with no hub fittings, minimum 3inch diameter, and larger to match the existing building drain lines.
C. No-hub couplings: heavy duty rubber neoprene sleeve couplings with full length Type 304 stainless steel shields and at least 4 worm drive clamps, conforming to ASTM A564.
D. Insulation: 1 inch thick pre-molded 3.5 lb. heavy density fiberglass pipe insulation, UL rated non-combustible with service jackets and prefabricated fitting covers.

2.3 GALVANIZED STEEL ROOF ACCESS LADDERS

A. Fabricate ladders from 1-1/4 inch inside diameter steel pipe rails, spaced 22 inches apart, and 3/4 inch solid steel rebar rungs spaced 12 inches on center. Fit the rungs into drilled holes in the centerline of the rails, weld and grind the welds smooth. Hot dip galvanize coat the ladder and mounting brackets after fabrication. Install with Type 316 stainless steel hardware.

2.4 ROOF WALKWAY PADS

A. 96 mil thick, rolled-out, polyester reinforced heat-weldable protection mat as manufactured by Sarnafil under the trade name SarnaTred, or approved equal.

2.5 SNOW GUARD ASSEMBLIES

A. 2 pipe snow guard assembly consisting of 1 inch outside diameter aluminum pipes, a 1/8 inch thick Type 302 stainless steel base plate, and milled 6061-T6 aluminum snow guard block and ice flags as manufactured by Alpine Snow Guards, Model #115R and #95 Ice Flags.

2.6 PAINT AND PRIMER

A. Alkyd base rust inhibiting exterior primer and high gloss finish paint for ferrous metal surfaces as manufactured by Benjamin Moore or equal.

PART 3 - EXECUTION

3.1 INSTALLATION

A. General: Field measure existing openings. Comply with manufacturer's instructions and recommendations. Coordinate with the installation of roof deck, other substrates to receive specialty units, vapor barriers, roof insulation, roofing and flashing to ensure that each element of the work performs and fits properly, and that combined elements are waterproof and weathertight. Anchor units securely to supporting structural substrates, adequate to withstand lateral and thermal stresses as well as inward and outward loading pressures.

3.2 DRAINS, PIPE COUPLINGS & INSULATION

A. Install new roof drains where indicated on the drawings:
   1. Remove existing roofing and insulation. Carefully cut opening into the existing roof deck and reinforce the underside of the deck.
   2. Install the drain flush with or slightly recessed below the deck surface to achieve maximum drainage.
   3. Support the drain with a stamped sump drain receiver, secure it with an under deck clamp.
   4. Connect the new drain to the existing drain line to conform to all applicable codes, and insulate the underside of the new drain and drain line.

3.3 GALVANIZED STEEL ROOF ACCESS LADDERS

A. Install ladders at the exterior locations shown. Support and secure each ladder at the top and bottom and at intermediate points spaced a maximum of 5 feet on center. Use bolted steel

brackets, anchored with 1/2 inch diameter stainless steel epoxy set bolts. Space the ladders to provide 7 inches of toe clearance. Extend the rails 42 inches and goose-neck form them to provide additional support at the top of the ladder.

3.4 ROOF WALKWAY PADS

A. Install walkway pads to provide a path 3 feet wide, spot adhered to a broomed gravel surface, for walkways where shown, at all roof access points, e.g.; doors, ladders and hatches, and under concrete pavers used for conduit and pipe supports.

B. Install walkway pads to provide a 39 inches wide path where shown on the drawings, and at all roof access points, i.e., ladders and doors. Fully adhere the walkway pads and heat weld the perimeter to the roof surface.

3.5 SNOW GUARD ASSEMBLIES

A. Install snow guard assemblies as shown on the drawings driven through the existing roofing and insulation. Install brackets spaced 4 feet on center, with a steel plate on the underside of the deck Fasten the snow guard plate to the interior plate with four flat head stainless steel bolts with nylon locking nuts. Join pipe sections with couplings, and install end caps onto each end of all pipes. Secure each length of pipe with set screw collars or by inserting 3/16 inch cotter pins into holes drilled on each side of the center bracket.

B. Prime and paint the steel plates on the underside of the deck with two finish coats of paint after installation.

3.6 PAINTING

A. Scrape and wire brush roof top equipment indicated on the drawings to remove loose and peeling paint and surface rust.

B. Install one coat of primer and two finish coats of paint using a brush or roller. Wait 24 hours for each coat of paint top dry before applying the next coat.

3.7 MISCELLANEOUS

A. Provide and install any sealants needed, where shown or required.

B. Perform mechanical and electrical work using skilled and licensed tradesmen.

C. Provide new material, couplings, transition pieces, blocking, fasteners and the similar accessories needed to complete the work.

3.8 CLEANING, PROTECTION AND WATERTIGHTNESS

A. Conduct an inspection of the interior and exterior of the building and grounds and submit a written report with photos to document any pre-existing leakage or damage, prior to performing any work.

B. The Owner will conduct a similar inspection at the completion of the work, and the Contractor will be charged for all leakage or damage which was not documented in the Contractor’s report, or repaired to the Owners satisfaction at the Contractor’s expense.

C. Provide any equipment, material and labor necessary to protect the site, the building, its contents and occupants, pedestrians, and surrounding landscaped and paved areas from damage due to the construction work or from inclement weather during construction.

D. Do not perform work during inclement weather. Protect incomplete work and the building from damage by inclement weather which may occur unexpectedly. Make all work areas watertight at the end of each day's work.

E. Frequently clean up all refuse, rubbish, scrap materials and debris so the work site presents a neat, orderly and workmanlike appearance.

F. Carefully clean the roof to remove all residual debris when work is complete. After cleaning the roof, thoroughly clean all drain sumps, drain lines, leader heads and leaders. Do not allow debris to enter the drainage system.

END OF SECTION