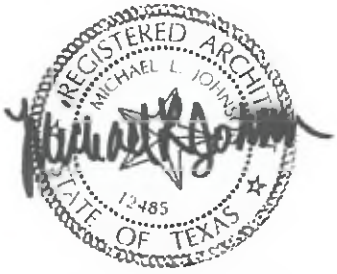
DALLAS INDEPENDENT SCHOOL DISTRICT

PROCUREMENT SERVICES

ADDENDUM NO. 1

CSP 207459 - ORG 220 MARK TWAIN SCHOOL FOR THE TALENTED AND GIFTED – RENOVATION



September 18, 2024

September 18, 2024

The Purpose of this Addendum No. 1 is to provide questions and answers received for the noted solicitation. In addition, there may also be updates to the solicitation which should be published as important information related to the process:

Any addendum issued will be listed or posted at the Dallas ISD Construction

Services website **http://www.dallasisd.org/**. Click on "**Departments**"; click on "**Construction Services/Bond Office**"; click on "**Bond Vendor Opportunities**"; then click on the "**CSP Project ID Number**".

The proposer is responsible for obtaining Addenda (all issued addendums) prior to submitting a proposal (CSP) to the Dallas ISD.

SPECIFICATIONS

Refer to Dallas Independent School District Procurement Services – Construction Services - Document Distribution for Construction Services CSP 207459 Org 220 MARK TWAIN SCHOOL FOR THE TALENTED AND GIFTED – RENOVATION J220_P0406_1 Solicitation Timeline from: CSP Response Due Dates Pt 1-A and Pt 1-B from 10/02/2024 2PM to 10/08/2024 and CSP Response Due Date Pt 2 from 10/03/2024 3PM to 10/09/2024. (00 11 13 – Page 1)

Questions and Answers

Question from POST L GROUP/Roderick Thomas/September 16, 2024

QUESTION 1:

Please provide a specification for Joint Sealants. I was unable to find one.

ANSWER 1:
See attached specification Section 079200 Joint Sealants.

QUESTION 2:

Questions from BIG SKY CONSTRUCTION/Kautilya Enigala/September 16, 2024

QUESTION 2:

There are multiple Sheets with same Sheet Numbers but different Sheet Titles. Will you revise these? For example, S101 has two sheets' titles "Structural Abbreviations and General Notes" and "Required Special Inspections".

ANSWER 2:
The corrected sheet number should read "S100".

QUESTION 3:

Finish Schedule and the plans do not match. For example, on Sheet AP105 for room 136 KINDERGARTEN, the schedule says it's VCT-1, but the plans do not capture this as new VCT. Please clarify.

ANSWER 3:
The corrected floor schedule should read: "No flooring scope of work should occur in Area E".

QUESTION 4:

After removal of existing steam convector in certain classrooms, the drawings call for 5/8th gyp on ½" hat channel. Is this applicable for the entire wall surface or specifically limited to the area of the disturbance? Also, clarify paint scope in such instances or classrooms.

ANSWER 4:
Change the note to read after removal of steam convector patch plaster wall holes. Apply new skim coat plaster to entire wall and paint. Reinstall all electrical and equipment devices.

QUESTION 5:

Question from EDRS, Inc./Duane Camby/September 10, 2024

I am bidding on the Asbestos Abatement on this project. I looked at the Asbestos survey provided and there are several things missing in the survey. Is there a way to get a complete survey with ACM locations drawing and quantities?

ANSWER 5:
The Asbestos Report is provided by the owner. The report is provided to the Architect via the Program Manger through the DISD Bond Construction Services Department. Additional requests should be presented to the Program Manager and the District.

QUESTION 6:

Mark Twain Drawings and Site Review

Drawing Sheets:

AS100

- Bus lane sidewalk replacement not highlighted to match civil

ANSWER AS100
Refer to Addendum Sheet AD1-AS100

AD101

- Corridor A1-1 plaster ceiling to be demoed in order to add unit, duct, and hanger locations for new ceiling, sprinklers etc.

ANSWER AD101
Refer to AD1-AC002.

AP101

- Note 2 for typical teaching surfaces need to be reviewed and room specific based on existing demo required for new.

ANSWER AP101
Refer to AD1-AP102B

AP102

- Details 7 and 8 will not work with existing walls covered in old chalk boards. Can not place over old chalkboards. New walls have to fur out or old board removed, abated, and patch/ paint.
- Note 2 for typical teaching surfaces need to be reviewed and room specific based on existing demo required for new.

ANSWER AP102
Refer to AD1-AP102B and AD1-AP102C.

AP104

- Note 2 for typical teaching surfaces need to be reviewed and room specific based on existing demo required for new.

ANSWER AP104
Refer to AP102 and AD1-AP102B

AC001/002/003/004/005

- Show ceiling demo for corridor A1-1
- See S401 for new steel brace installation. Show locations to have ceiling demo and replace. Note type of ceiling.

ANSWER AC001/002/003/004/005
Refer to AD1-AC101, AD1-AC104, AD1-AC105.

AC103/104

- Show ceiling repair at steel brace locations on S401

ANSWER AC103/104
Refer to AD1-AC105.

AE100/ 101/ 102

- Note for contractor to field verify caulk joints for replacement. This is not biddable. Allowance needed if JMA cannot show all locations.

ANSWER AE100/101102
Suggest adding to the allowance $10,000.

M213

- Show on architectural – needs for housekeeping pads

ANSWER to M213
Refer to M002 for location of equipment that calls out for housekeeping pads.
Refer to AD1-AP102D.

M101/102/103

- During site walk there were pipes near doors going vertical to ceilings. If these are part of radiator demo, then locations need to be noted for demo and floor and ceiling repair noted.

ANSWER to M101/102/103
Classrooms noted on the above sheets scheduled to have wall radiators demolished should also remove exposed vertical pipes in the rooms. General Contractor to field verify locations impacted prior to removing the pipes. Patch floors, walls and/or other affected ceilings with matching materials.

M212

- Show on architectural – needs for housekeeping pads

ANSWER to M212
Refer to M002 for location of equipment that calls out for housekeeping pads.

QUESTION 7 – Question 10:

Questions from Sign-Express/Susan Kramer/September 17, 2024
Questions from POST L Group/Roderick Thomas/September 18, 2024

Per specs 2.03-back lit letters that say CHARLES RICE LEARNING CNETER. Is this correct?

ANSWER 7:
No.

QUESTION 8:

Per specs 2.02-letters that say Persevere etc. Can these letters be upper case?

ANSWER 8:
No delete Motto Persevere.

QUESTIONS 9:
The specs are exactly same as Leslie Stemmons ES. The MOTO is the same. Is it the same?

ANSWER 9:
No.

ATTACHMENTS

ADDENDUM REFERENCE DRAWINGS

AD1-AP101
AD1-AP102A
AD1-AP102C
AD1-AP102D
AD1-G0.01
AD1-AS100
AD1-AC002
AD1-AP102B
AD1-AC105
AD1AC101
AD1-AC104

CORRECTIONS TO DRAWINGS:

Refer to Sheet G0.01
Revising the Index Sheets per the attached AD1-G0.01

AP101
Change wall finish at vestibule to plastic laminate. Refer to AD1-AP101.

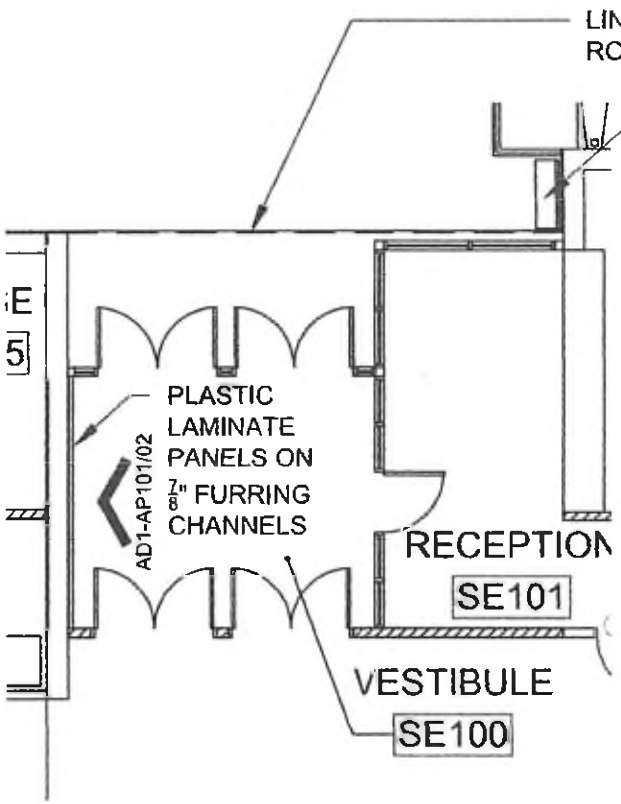
AP107
Change reception counter dimension. Refer to AD1-AP102A.

SPECIFICATIONS:

The following spec sections are hereby added to the project manual.

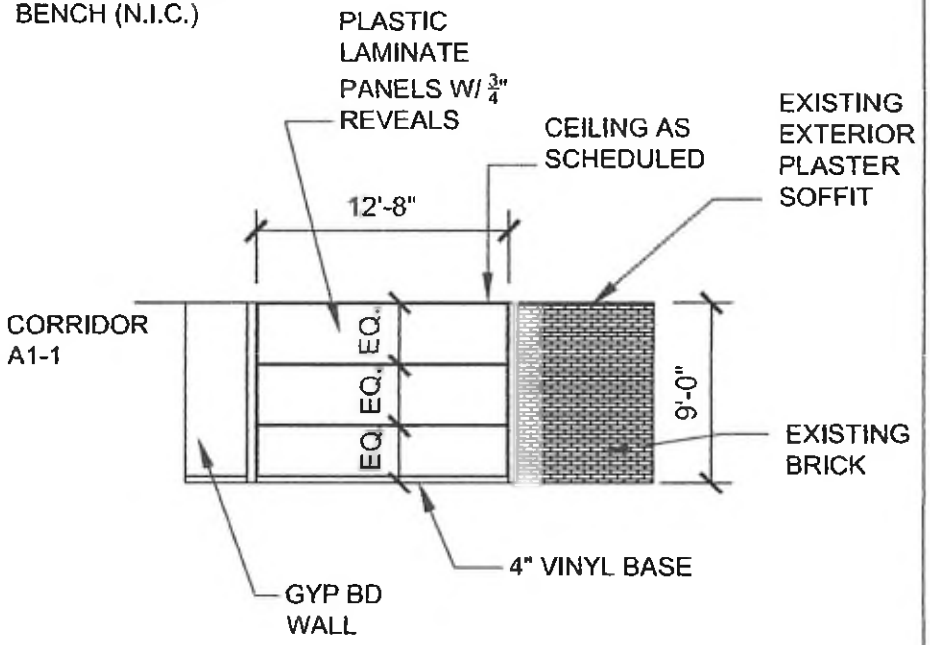
079200 Joint Sealants
097800 Wall Panel System

END OF ADDENDUM



01 VESTIBULE PARTIAL FLOOR PLAN

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



02 VESTIBULE INTERIOR ELEVATION

SCALE 1/8" = 1'-0"

jma ARCHITECTS

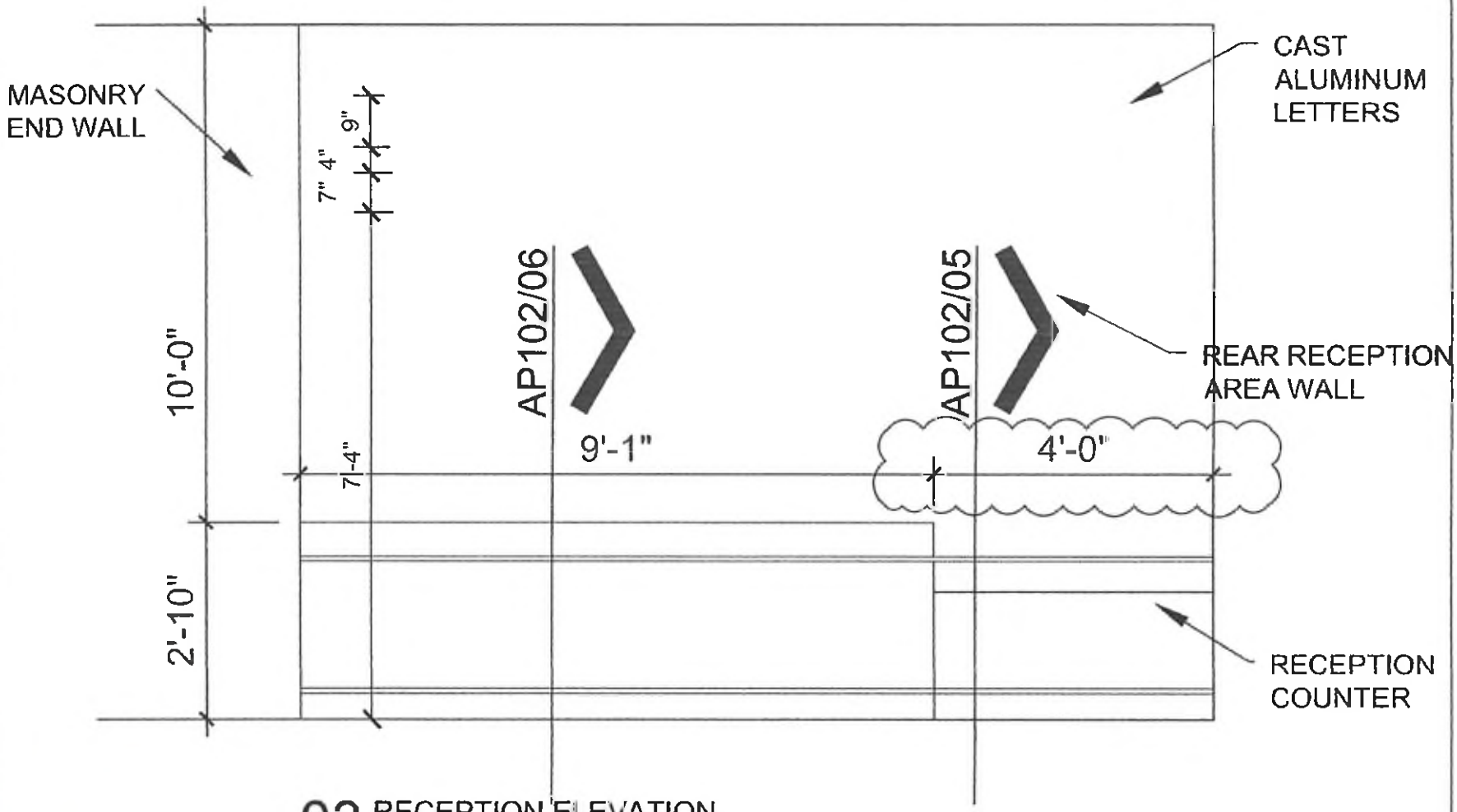
Dallas Independent School District
Mark Twain School For the Talented and Gifted
724 Green Cove Lane - Dallas, Texas

NO.	DATE	DESCRIPTION
1	9/18/2024	ADDENDUM

SCALE

DATE 9/18/2024

AD1-AP101



03 RECEPTION ELEVATION
SCALE: 1/2" = 1'-0"

jma johnson ARCHITECTS

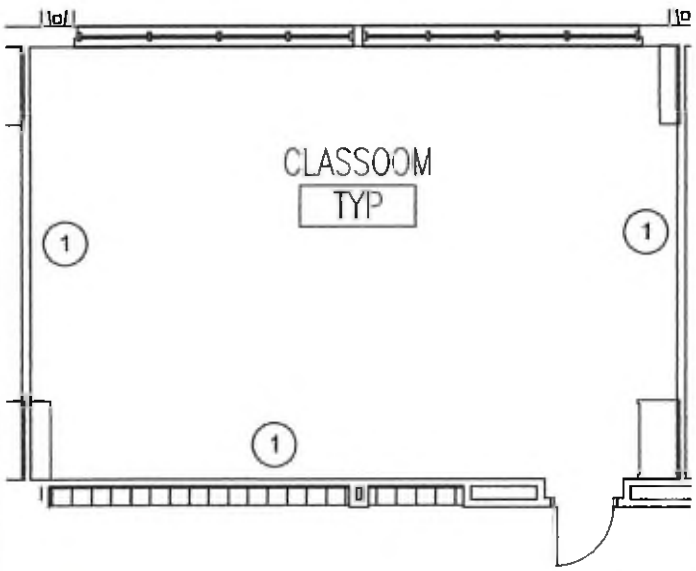
Dallas Independent School District
Mark Twain Vanguard Academy
724 Green Cove Lane - Dallas, Texas

NO.	DATE	DESCRIPTION
1	9/10/2024	ADDENDUM

SCALE: N.T.S.
DATE: 9/10/2024

AD1-AP102A

LEGEND	
1	INDICATES TYPICAL TEACHING SURFACE REPLACEMENT



01 TYPICAL CLASSROOM PLAN

CLASSROOM TO RECEIVE NEW TEACHING SURFACES

CLASSROOM 103 — 3 SURFACES
CLASSROOM 104 — 3 SURFACES
CLASSROOM 105 — 3 SURFACES
CLASSROOM 106 — 3 SURFACES
CLASSROOM 108 — 3 SURFACES
CLASSROOM 109 — 3 SURFACES
CLASSROOM 110 — 3 SURFACES
CLASSROOM 111 — 3 SURFACES
CLASSROOM 113 — 3 SURFACES
CLASSROOM 114 — 3 SURFACES
CLASSROOM 115 — 3 SURFACES
CLASSROOM 116 — 3 SURFACES
CLASSROOM 117 — 3 SURFACES
CLASSROOM 118 — 3 SURFACES
CLASSROOM 119 — 3 SURFACES
CLASSROOM 120 — 3 SURFACES
CLASSROOM 121 — 3 SURFACES
CLASSROOM 122 — 3 SURFACES
CLASSROOM 123 — 3 SURFACES
CLASSROOM 126 — 3 SURFACES
CLASSROOM 127 — 3 SURFACES
CLASSROOM 128 — 3 SURFACES

WALL REPAIR GENERAL NOTES:

1. REMOVE EXISTING TEACHING SURFACES AND REPLACE WITH NEW. PATCH PLASTER WALL AND APPLY NEW PLASTER SKIM COAT FOR THE ENTIRE WALL. REMOVE AND RE-INSTALL EXISTING WALL MOUNTED DEVICES ON REPAIRED PLASTER WALL.
2. IN CLASSROOMS WHERE THE WALL VENTILATORS ARE REMOVED, PATCH PLASTER WALL AND APPLY NEW PLASTER SKIM COAT FOR THE ENTIRE WALL. REMOVE EXISTING FLOOR TILE, PATCH FLOOR OPENINGS PRIOR TO INSTALLING NEW FLOORING

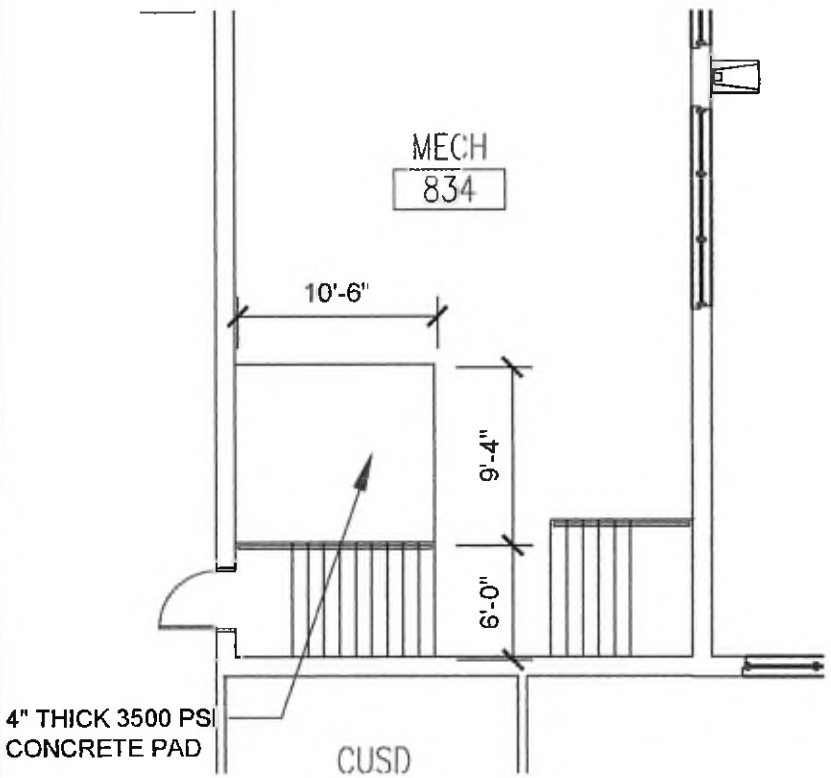
jma johnson ARCHITECTS

Dallas Independent School District
Mark Twain School For the Talented and Gifted
724 Green Cove Lane - Dallas, Texas

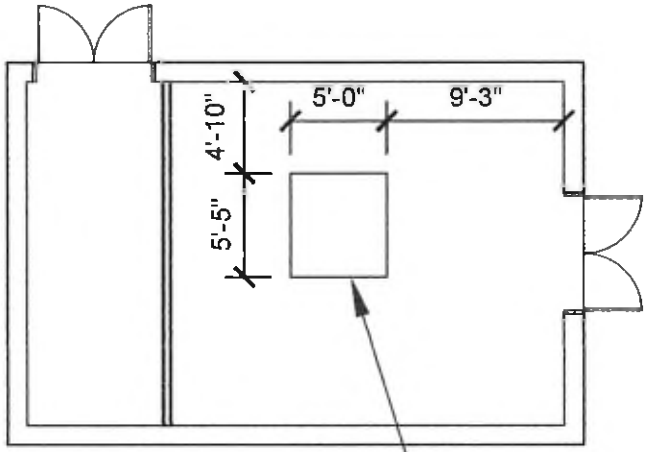
NO.	DATE	DESCRIPTION
1	9/18/2024	ADDENDUM

SCALE:
DATE: 9/18/2024

AD1-AP102C



01 MECH RM #834
HOUSEKEEPING PAD



02 MECH RM @ COURTYARD
HOUSEKEEPING PAD

Dallas Independent School District
Mark Twain School For the Talented and Gifted
724 Green Cove Lane - Dallas, Texas

NO.	DATE	DESCRIPTION
1	9/18/2024	ADDENDUM

SCALE:
DATE: 9/18/2024

AD1-AP102D

15. DO NOT INTERFERE WITH OTHER DALLAS INDEPENDENT SCHOOL DISTRICT CONTRACT WORK AND OPERATIONS ON THIS SITE.
16. THE GENERAL CONTRACTOR IS RESPONSIBLE TO KEEP AND MAINTAIN THE FIRE ALARM OPERATIONAL DURING CONSTRUCTION. EXISTING FIRE ALARM TO BE DEMOLISHED IMMEDIATELY AFTER APPROVAL. PATCH AND PAINT ALL DEMO LOCATIONS.
17. THE GENERAL CONTRACTOR IS RESPONSIBLE TO USE ANY ALL ACCEPTABLE METHODS TO ENSURE UNDERGROUND UTILITIES ARE LOCATED AND UNDISTURBED.

ARCHITECTURAL

jma johnson ARCHITECTS

Dallas Independent School District
Mark Twain Vanguard Academy
724 Green Cove Lane - Dallas, Texas

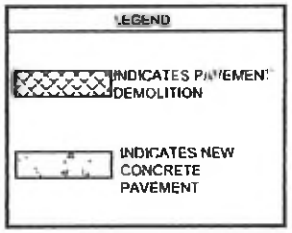
NO.	DATE	DESCRIPTION
1	9/10 2024	ADDENDUM

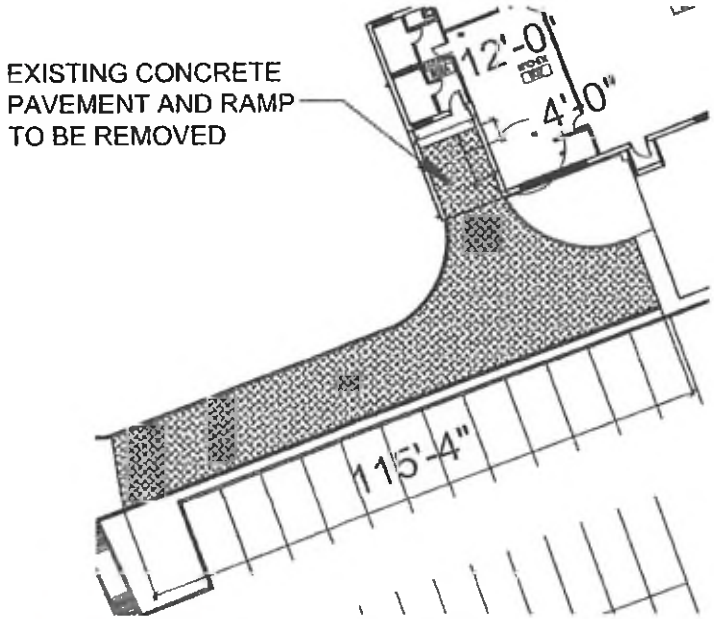
SCALE: N.T.S.
DATE: 9/10/2024

AD1-G0.01

GENERAL NOTES:

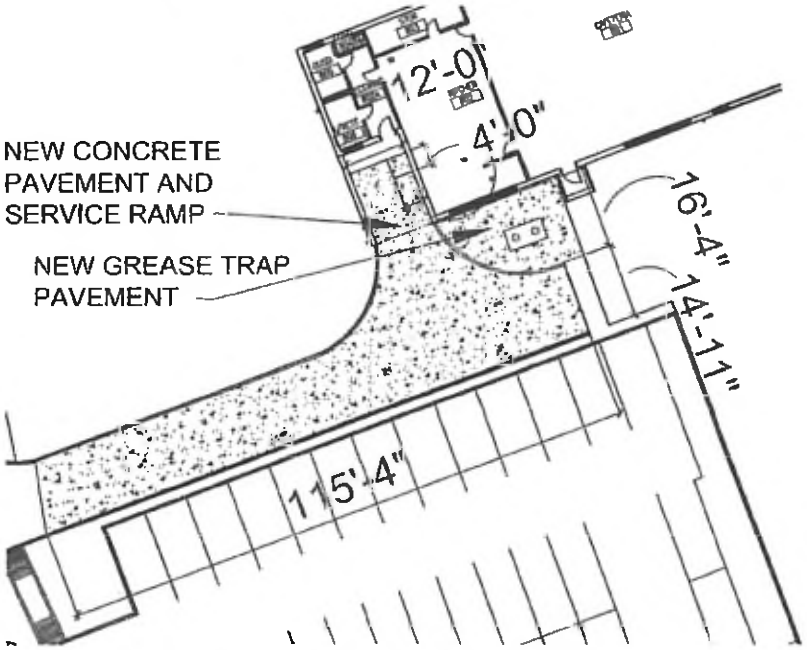
1. DRIVE PAVEMENT SHALL BE CLASS 'A', (3500 PSI) CONCRETE.
2. ALL FILL AREAS TO BE COMPACTED TO 95% PROCTOR.
3. ALL CURBS AND GUTTERS SHALL BE INTEGRAL WITH THE PAVEMENT AND SHALL HAVE THE SAME COMPRESSIVE STRENGTH.
4. PAVEMENT REINFORCEMENT SHALL BE #3 BARS @16" O.C.E.W.
5. SIDEWALKS AND ACCESSIBLE ROUTES SHALL BE 4" THICK CONCRETE ON 2" LEVELING SAND HAVE A RUNNING SLOPE NO GREATER THAN 5% AND A CROSS FALL NO GREATER THAN2%.
6. CONTROL JOINTS TO BE ¼" DEPTH OF PAVEMENT, ⅛" WIDE ON 10' CENTERS MAXIMUM.
7. EXPANSION JOINTS ½" REDWOOD EXPANSION JOINT MATERIAL OR PRE-MOLDED ASPHALT BOARD 20' CENTERS.





01 SERVICE DRIVE PAVEMENT DEMO

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



02 NEW SERVICE DRIVE PAVEMENT

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

jma ARCHITECTS

Dallas Independent School District
Mark Twain School For the Talented and Gifted
724 Green Cove Lane - Dallas, Texas

NO.	DATE	DESCRIPTION
1	9/18/2024	ADDENDUM

SCALE:
DATE: 9/18/2024

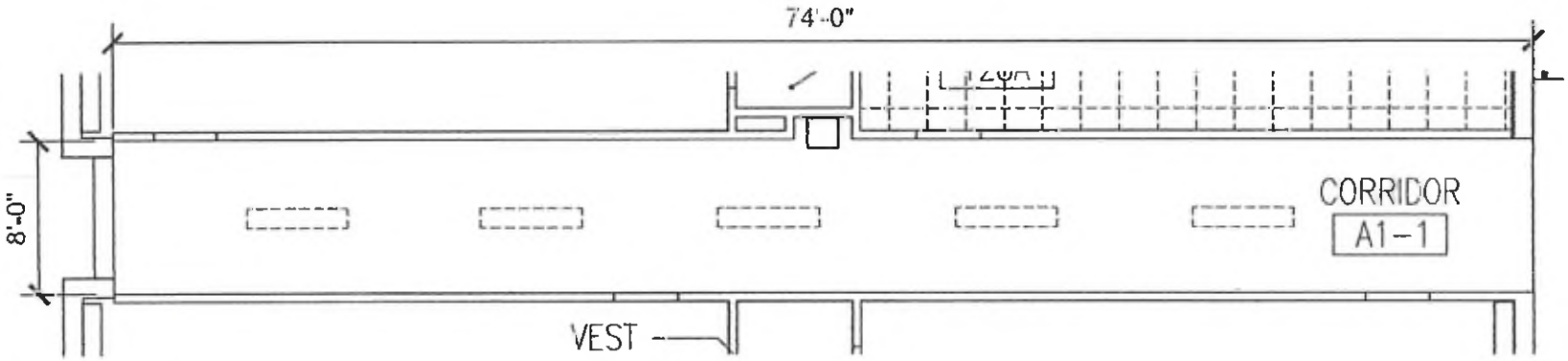
AD1-AS100

DEMO LEGEND

GENERAL NOTE:

1. CONTRACTOR SHALL RE-ORIENT SPRINKLER HEADS TO BE BELOW NEW CEILING TILE.

2. DEMOLISH PLASTER CEILING IN CORRIDOR A1-1 TO ACCOMMODATE INSTALLATION OF RTU STRUCTURAL SUPPORTS. ATTACH SUPPORTS OF EXISTING EXPOSED CEILING ELEMENTS TO STRUCTURE ABOVE.



01 PARTIAL CEILING DEMOLITION PLAN

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

jma ARCHITECTS

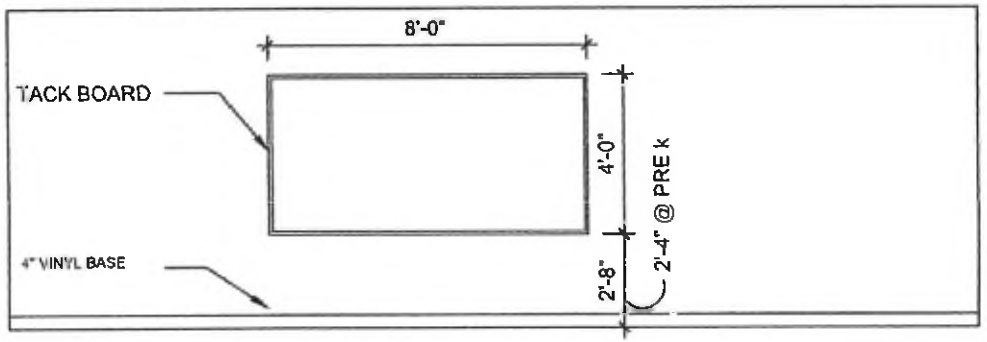
Dallas Independent School District
Mark Twain School For the Talented and Gifted
724 Green Cove Lane - Dallas, Texas

NO.	DATE	DESCRIPTION
1	9/18/2024	ADDENDUM

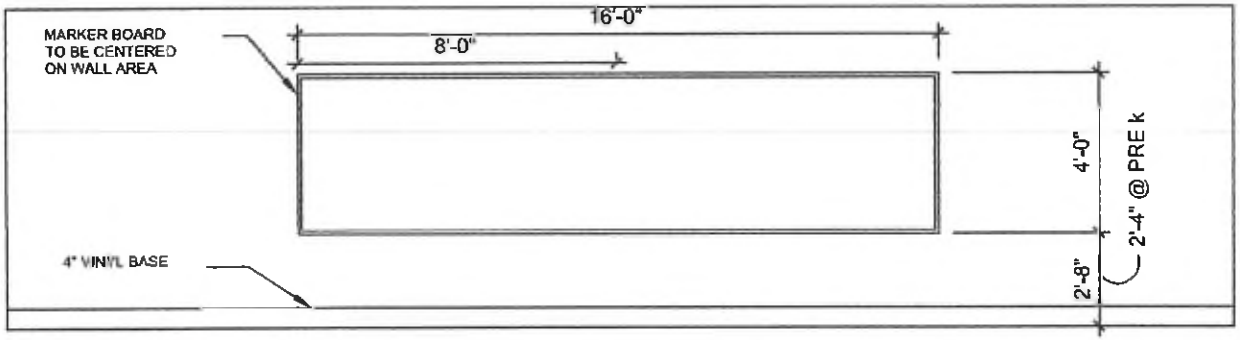
SCALE

DATE 9/18/2024

AD1-AC002



TYPICAL
02 TACK BOARD MOUNTING



TYPICAL
01 WHITE BOARD MOUNTING

WALL REPAIR GENERAL NOTES:

1. REMOVE EXISTING TEACHING SURFACES AND REPLACE WITH NEW. PATCH PLASTER WALL AND APPLY NEW PLASTER SKIM COAT FOR THE ENTIRE WALL. REMOVE AND RE-INSTALL EXISTING WALL MOUNTED DEVICES ON REPAIRED PLASTER WALL.
2. IN CLASSROOMS WHERE THE WALL VENTILATORS ARE REMOVED, PATCH PLASTER WALL AND APPLY NEW PLASTER SKIM COAT FOR THE ENTIRE WALL. REMOVE EXISTING FLOOR TILE, PATCH FLOOR OPENINGS PRIOR TO INSTALLING NEW FLOORING

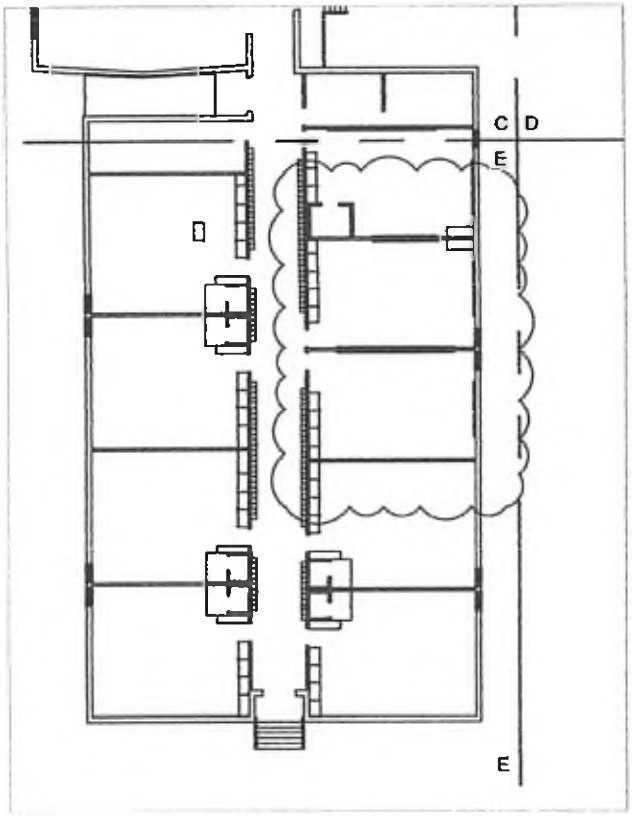
jma ARCHITECTS

Dallas Independent School District
Mark Twain School For the Talented and Gifted
724 Green Cove Lane - Dallas, Texas

NO.	DATE	DESCRIPTION
1	9/18/2024	ADDENDUM

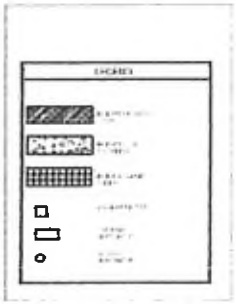
SCALE
DATE 9/18/2024

AD1-AP102B



NOTE:

DEMOLISH AND REPLACE CEILING AS REQUIRED TO INSTALL RTU STRUCTURAL SUPPORTS



GENERAL NOTE:

CONTRACTOR SHALL RE-ORIENT SPRINKLER HEADS IN ACCORDANCE WITH APPLICABLE FIRE CODE

LAY-IN CEILING HEIGHT SHALL BE 9'-0" U.N.O.

PLAN NORTH

01 CEILING PLAN AREA 'E'

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

jma ARCHITECTS

Dallas Independent School District
Mark Twain Vanguard Academy
724 Green Cove Lane - Dallas, Texas

NO.	DATE	DESCRIPTION
1	9/10/2024	ADDENDUM

SCALE. N.T.S.

DATE. 9/10/2024

AD1-AC105

LEGEND

INDICATES PLASTER SOFFIT

INDICATES GYP. BD. CEILING

INDICATES LAY-IN CEILING

RECESSED LIGHT FIXTURE

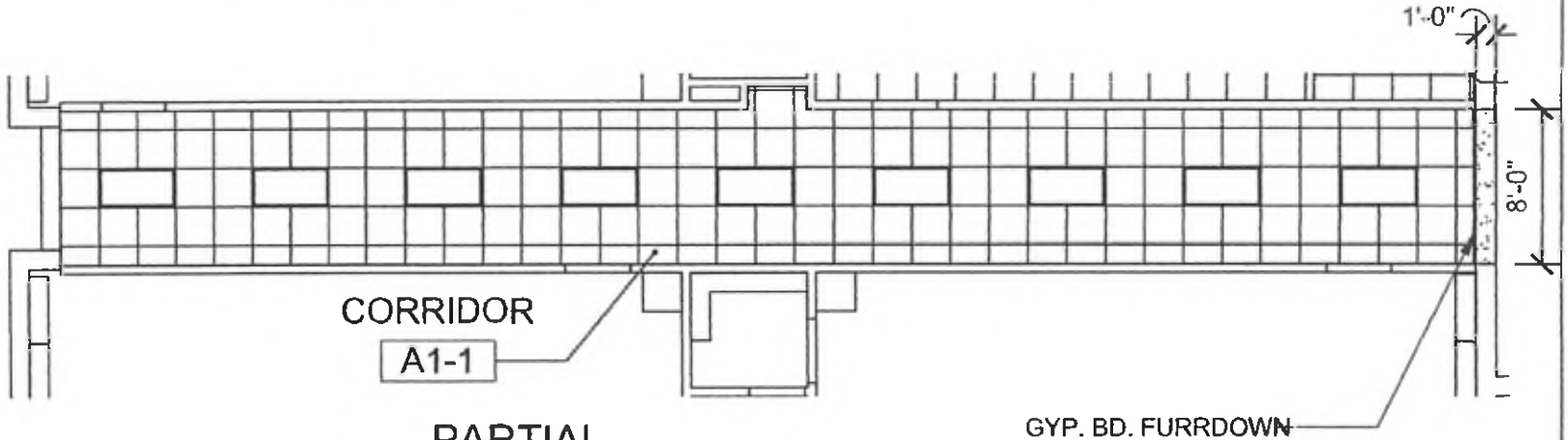
SURFACE MOUNTED LIGHT FIXTURE

PENDANT MOUNTED LIGHT FIXTURE

GENERAL NOTE:

CONTRACTOR SHALL RE-ORIENT SPRINKLER HEADS IN ACCORDANCE WITH APPLICABLE FIRE CODE

LAY-IN CEILING HEIGHT SHALL BE 9'-0" U.N.O.



01 PARTIAL CEILING PLAN

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

jma ARCHITECTS

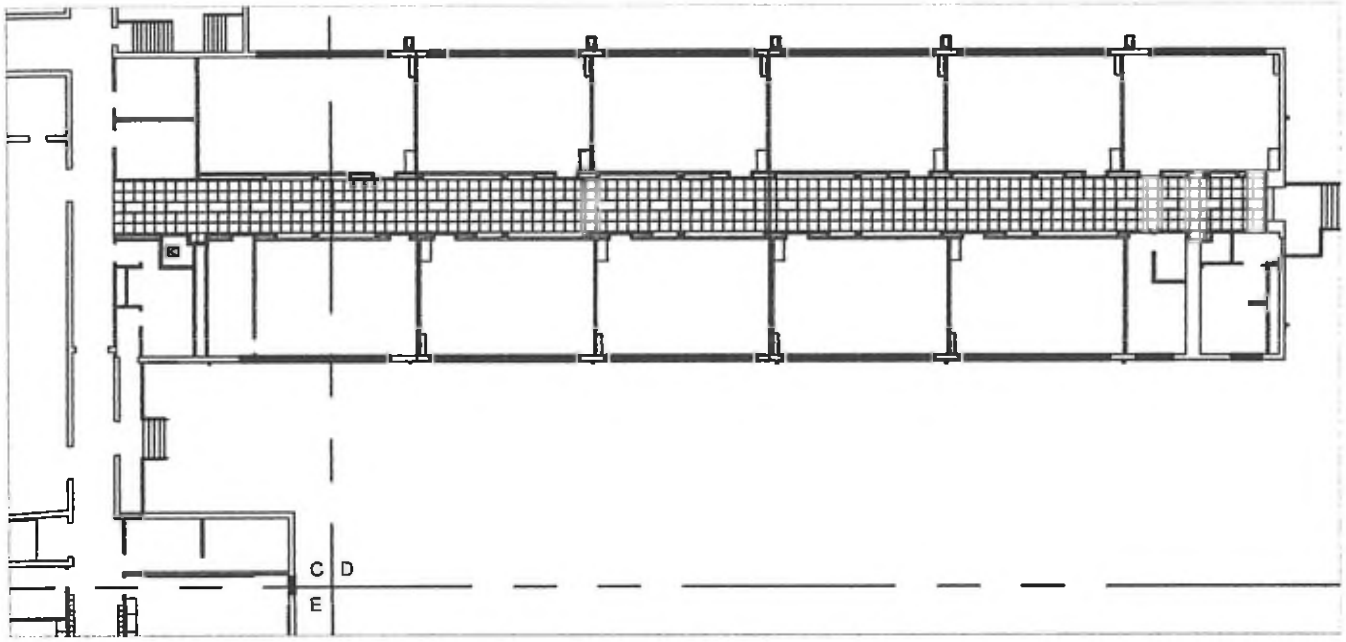
Dallas Independent School District
Mark Twain School For the Talented and Gifted
724 Green Cove Lane - Dallas, Texas

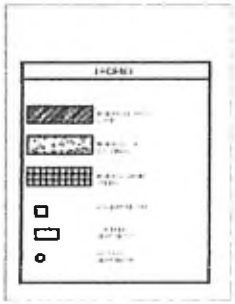
NO.	DATE	DESCRIPTION
1	9/18/2024	ADDENDUM

SCALE

DATE 9/18/2024

AD1-AC101





GENERAL NOTE:

CONTRACTOR SHALL RE-ORIENT SPRINKLER HEADS IN ACCORDANCE APPLICABLE FIRE CODE

LAY-IN CEILING HEIGHT SHALL BE 9'-0" U.N.O.

PLAN NORTH

01 CEILING PLAN AREA 'D'

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

jma johnson ARCHITECTS

Dallas Independent School District
Mark Twain Vanguard Academy
724 Green Cove Lane - Dallas, Texas

NO.	DATE	DESCRIPTION
1	9/10/2024	ADDENDUM

SCALE: N.T.S.

DATE: 9/10/2024

AD1-AC104

SECTION 079200

JOINT SEALANTS

PART 1 GENERAL

1.1 SUMMARY
- A. Related Documents: General and Supplementary Conditions of the Contract, Division 1 - General Requirements, and Drawings are applicable to this Section.
- B. Section Includes:
  1. Preparing sealant substrate surfaces.
  2. Sealant and backing.

1.2 DEFINITIONS
- A. Use definitions in ASTM C 717.
- B. Non-Bleeding: Not capable of exuding liquid chemical components of sealant.
- C. Non-Staining: Not capable of discoloring joint substrate.
- D. Sealant System: Sealant, sealant backing, and primer intended for use in particular condition.

1.3 SUBMITTALS
- A. Submit product data under provisions of Section 01330.
- B. Product Data:
  1. Submit product data for each product.
  2. Include data to indicate performance criteria, limitations, substrate preparation, installation requirements, and curing requirements.
  3. Include information for accessories and other required components.
  4. Include color charts indicating manufacturer's full color range available of each sealant type for Architect's initial selection.
- C. Samples: Submit four 1/4 inch diameter by 2 inch long samples illustrating sealant colors for each product exposed to view.
- D. Submit the following Informational Submittals:
  1. Test Reports: Submit written results of testing specified as part of Source and Field Quality Control articles.
  2. Certifications specified in Quality Assurance article.
  3. Qualification Data: Manufacturer's and installer's qualification data.
  4. Manufacturer's instructions. Include requirements for surface preparation, priming, joint size ratios, adhesion testing, and perimeter conditions requiring special attention.
- E. Closeout Submittals:
  1. Submit under provisions of Section 01770.
  2. Warranty: Submit specified warranty.

1.4 QUALITY ASSURANCE
- A. Single Source Responsibility:
  1. Provide products for each sealant system from one manufacturer for entire Project, unless otherwise acceptable to Architect.
  2. Provide products from a single manufacturer to ensure material compatibility where different sealant materials come in direct contact with each other.
  3. Provide each sealant system as complete unit, including accessory items necessary for proper function.
- B. Manufacturer Qualifications: Company specializing in manufacturing products specified in this Section with minimum 10 years documented experience.

C. Applicator Qualifications: Acceptable to manufacturer, specializing in applying sealants, with documented experience on at least 10 projects of similar nature in past 5 years.

D. Certifications:

1. Manufacturer's certification that products:
   a. Furnished for the specific project meet or exceed specified requirements.
   b. Assembled for each joint are compatible with each other and with joint substrates under conditions of service and application.
   c. Are suitable for the indicated use.
2. Manufacturer's certification that sealants, primers, and cleaners, comply with local regulations controlling the use of volatile organic compounds.
3. Contractor's and installer's certification that products are installed in accordance with Contract Documents, based on inspection and testing specified as part of Field Quality Control.

1.5 FIELD SAMPLES

A. Provide samples under provisions of Section 01330.

B. Preconstruction Field Sample:

1. Construct sealant joint mock-up 5 feet long for elastomeric joint sealants specified in this Section.
2. Position at location directed by Architect.
3. Perform "field hand-pull adhesion test" described under Field Quality Control.

1.6 PRE-INSTALLATION CONFERENCE

A. Conduct pre-installation conference.

B. Convene pre-installation conference 2 weeks prior to commencing work of this Section.

C. Conference Purpose and Agenda:

1. Visit Project site to analyze site conditions, and inspect surfaces and joints to be sealed in order that recommendations may be made should adverse conditions exist.
2. Discuss following items:
   a. Substrate conditions.
   b. Preparatory work.
   c. Weather conditions under which work will be done.
   d. Anticipated frequency and extent of joint movement.
   e. Joint design.
   f. Sealant installation procedures.

1.7 DELIVERY, STORAGE AND HANDLING

A. Comply with requirements of Section 01620.

B. Deliver materials to site in unopened containers and bundles with labels indicating:

1. Manufacturer's name.
2. Product name and designation.
3. Color.
4. Expiration period for use.
5. Working life.
6. Curing time.
7. Mixing instructions for multi-component materials.

C. Storage and Protection:

1. Store products within manufacturer's required temperature and humidity ranges.
2. Prior to use, condition products within manufacturer's required temperature range, humidity range, and time period.

1.8 PROJECT CONDITIONS

A. Environmental Requirements:

1. Perform sealing when the following are within manufacturer's limits during and for 24 hours after sealant installation:
   a. Ambient and surface temperatures.
   b. Relative humidity.
2. Do not apply sealants to wet or frozen surfaces.
3. Comply with manufacturer's requirements regarding application of sealants in vicinity of curing sealants of a different material.
4. Preformed Foam Sealants:
   a. When ambient temperature is 50 degrees F or lower, store at room temperature for at least 24 hours prior to installation.
   b. Do not store foam seals in direct sunlight.

1.9 SEQUENCING
A. Coordinate work with Sections referencing this Section.
B. Coordinate installation of sealants with substrates to which they are applied.

1.10 WARRANTY
A. Provide warranties.
B. Warrant installed products to be free from defects in material, labor, or installation techniques for 2 years.
C. Include coverage for installed sealants and accessories which:
   1. Fail to achieve air tight seal.
   2. Fail to achieve watertight seal.
   3. Exhibit loss of adhesion.
   4. Exhibit loss of cohesion.
   5. Do not cure.

PART 2PRODUCTS

2.1 MANUFACTURERS
A. Acceptable Manufacturers: Subject to compliance with requirements herein, provide products from manufacturers listed herein.
B. Acceptable Acrylic Sealant Manufacturers:
   1. Pecora Corporation, Harleysville, PA.
   2. Sonneborn Building Products/ChemRex, Inc., Minneapolis, MN.
   3. Tremco Corporation, Cleveland, OH.
C. Acceptable Preformed Foam Seal Manufacturers:
   1. Emseal Joint Systems, Ltd., Westborough, MA.
   2. Will-Seal Division, Illbruck, Inc.; Minneapolis, MN.
D. Acceptable Silicone Sealant Manufacturers:
   1. Dow Corning Corporation, Midland, MI.
   2. General Electric Silicone Products Division, Waterford, NY.
   3. Pecora Corporation, Harleysville, PA.
   4. Rhone-Poulenc, Inc., Princeton, NJ.
   5. Tremco Corporation, Cleveland, OH.
E. Acceptable Urethane Sealant Manufacturers:
   1. Mameco International, Inc., Cleveland, OH
   2. Pecora Corporation, Harleysville, PA.
   3. Sika Corporation, Lyndhurst, NJ.
   4. Sonneborn Building Products/ChemRex, Inc., Minneapolis, MN.
   5. Tremco Corporation, Cleveland, OH.

2.2 MATERIALS
A. Acrylic Latex (Designation AL):

1. Description:
   a. ASTM C 834.
   b. Non-sag; non-staining; non-bleeding.
   c. Joint movement range without cohesive/adhesive failure: Plus 7.5 percent to minus 7.5 percent of joint width.
   d. Color: As selected by Architect from manufacturer's full color range.
2. Acceptable Products:
   a. AC-20, Pecora.
   b. Sonolac, Sonneborn.
   c. Acrylic Latex 834, Tremco.

B. Silicone - General Purpose (Designation S-GP):
1. Description:
   a. ASTM C 920:
      1) Type: S
      2) Grade: NS
      3) Class: 25
      4) Uses: NT, G, A, O
   b. Low modulus, single component, neutral curing, non-staining, non-bleeding silicone sealant.
   c. Joint movement range without cohesive/adhesive failure: Plus 50 percent to minus 50 percent of joint width.
   d. Color: [Selected by Architect from manufacturer's full color range] [Custom color].
2. Acceptable Products:
   a. 795, Dow Corning.
   b. Silpruf, General Electric.
   c. 864, Pecora.
   d. Rhodorsil 5C, Rhone-Poulenc.
   e. Spectrum 1, Tremco.

C. Silicone - Sanitary (Designation S-S):
1. Description:
   a. ASTM C 920:
      1) Type: S
      2) Grade: NS
      3) Class: 25
      4) Uses: NT, M, G, A, O
   b. Neutral or acid curing, non-staining, non-bleeding, fungicide-containing.
   c. Color: Selected by Architect from manufacturer's full color range.
   d. Complying with United States Food and Drug Administration Regulation 21CFR-177-6000.
2. Acceptable products:
   a. 786 Mildew-Resistant Silicone Sealant, Dow Corning.
   b. Sanitary 1700, General Electric.
   c. 863 or 898, Pecora.
   d. Rhodorsil 3B, Rhone Poulenc.
   e. Tremsil 600, Tremco.

D. Urethane - Multi-Component (Designation U-MC):
1. Description:
   a. ASTM C 920:
      1) Type: M
      2) Grade: NS
      3) Class: 25
      4) Uses: NT, M, A, O
   b. Chemical curing, non-staining, and non-bleeding.

c. Joint movement range without cohesive/adhesive failure: Plus 25 percent to minus 25 percent of joint width.
d. Color: Selected by Architect from manufacturer's full color range.

2. Acceptable Products:
a. Vulkem 322DS (Deck Seal), Vulkem 227, Mameco.
b. Dynatrol II, Pecora.
c. Sikaflex-2c NS, Sika.
d. Sonolastic NP-2, Sonneborn.
e. Dymeric 511, Tremco.

E. Urethane - Traffic-Bearing (Designation U-TB):
1. Description:
a. ASTM C 920:
1) Type: M
2) Grade: P or NS
3) Class: 25
4) Uses: T, M, O
b. Chemical curing, non-staining, non-bleeding.
c. Joint movement range without cohesive/adhesive failure: Plus 25 percent to minus 25 percent of joint width.
d. Shore A hardness: 35 minimum, when tested in accordance with ASTM D 2240.
e. Color: Selected by Architect from manufacturer's full color range.

2. Acceptable Products:
a. Vulkem 245, 202, Mameco.
b. Dynatred, Pecora.
c. Sikaflex 2c/SL, Sika.
d. THC 900/901, Tremco.

2.3 ACCESSORIES

A. Joint Cleaner:
1. Chemical cleaners required by sealant manufacturer for substrates encountered, compatible with sealant backing bond breaker materials.
2. Free of substances capable of staining, corroding, or harming:
a. Joint substrates.
b. Adjacent nonporous surfaces.
c. Sealant.
d. Sealant backing.
3. Formulated to promote optimum adhesion of sealants to joint substrates.

B. Primer:
1. Dyed coating material required by sealant manufacturer for enhancing sealant adhesion to joint substrates.
2. Non-staining to joint substrate beyond the substrate surface.
3. Required for use unless not required by results of:
a. "Manufacturer's sealant-substrate compatibility and adhesion test" described under Source Quality Control.
b. "Field hand-pull adhesion test" under Field Quality Control.

C. Sealant Backing Bond Breaker Rod:
1. Non-staining material.
2. Compatible and non-adhering to sealant when tested in accordance with ASTM C 1087.
3. Compatible with sealant, joint substrates, primers, and other sealant backing bond breakers.
4. Sealant manufacturer approved.
5. Sized and shaped to provide optimum performance and backing to sealant.

6. Preformed, compressible, resilient, non-staining, non-outgassing, non-waxing, non-extruding, cylinder-shaped plastic foam rods compliant with ASTM D 1056 and D 1565.
7. Open cell polyurethane: Use not permitted unless required by sealant manufacturer.
8. Closed cell polyethylene:
   a. Non-absorbent to liquid water.
   b. Use in wall and ceiling joints unless otherwise required by sealant manufacturer.
9. Unless otherwise required by sealant manufacturer, oversize rod to be larger than joint width by following minimum amounts:
   a. Open cell polyethylene: 50 percent.
   b. Closed cell polyethylene: 33 percent.
   c. Reticulated polymeric: 25 percent.
   d. Closed cell polyethylene for use with abuse-resistant and pick-resistant urethane sealant: 25 percent.

D. Elastomeric Tubing Joint Filler:
1. Neoprene, butyl, EPDM, or silicone tubing compliant with ASTM D 1056.
2. Shore A hardness of 70.
3. Compatible with sealant, joint substrates, primers, and other sealant backing bond breakers.
4. Use in pavement joints, unless otherwise required by sealant manufacturer.
5. Use sealant backing bond breaker tape to separate sealant from rod.
6. Unless otherwise required by sealant manufacturer, oversize rod to be larger than joint width by 25 percent the following minimum amounts:

E. Sealant Backing Bond Breaker Tape:
1. Pressure sensitive polyethylene tape or tetrafluoroethylene self-adhesive tape required by sealant manufacturer to suit application.
2. Minimum Thickness of 11 mils.

F. Masking Tape: Non-staining, non-absorbent material compatible with sealants and surfaces adjacent to joints.

G. Tooling Liquids: Non-staining material approved by manufacturer to reduce adhesion of sealant to joint finishing tools.

2.4 MIXES
A. Comply with manufacturer's instructions.
B. Mix thoroughly with mechanical mixer without mixing air into sealants.
C. Continue mixing until sealant is uniform in color and free from streaks of unmixed materials.

PART 3EXECUTION

3.1 EXAMINATION
A. Ensure that concrete and masonry have cured minimum of 28 days.
B. Verify that sealant backing is compatible with sealant.
C. Verify that substrate surface:
1. Is within manufacturer's moisture content range.
2. Complies with manufacturer's cleanliness and surface preparation requirements.

D. Joint Width:
1. Verify joints are greater than minimum widths required by manufacturer.
2. If joints are narrower than minimum required widths, widen narrow joints to indicated width.
3. Do not place sealant in joints narrower than manufacturer's required minimum.

3.2 PREPARATION
A. Prepare, clean, and prime joints in accordance with manufacturer's instructions.

B. Remove loose materials and matter which might impair adhesion of primer and sealant to substrate.
C. Remove form release agents, laitance, and chemical retarders, which might impair adhesion of primer and sealant to concrete and masonry surfaces.
D. Comply with ASTM C 1193.
E. Protect elements adjoining and surrounding work of this Section from damage and disfiguration.
F. Priming:
   1. Prime joint substrates unless priming is not required by:
      a. "Manufacturer's sealant-substrate compatibility and adhesion test" described in Source Quality Control article.
      b. "Field hand-pull adhesion test" described in Field Quality Control article.
   2. Apply primer to substrate areas where joint sealant is to adhere.
   3. Comply with manufacturer's sequencing requirements for joint priming and sealant backing bond breaker rod installation to assure required primer application coverage and rate without placement of primer on backer rod surface to be in contact with sealant and avoid three-sided sealant adhesion.
   4. Do not allow spillage and migration of primer onto surfaces not to receive primer.
   5. Install sealant to primed substrates after primer has cured.
G. Masking Tape:
   1. Use masking tape to prevent contact of primer and sealant with adjoining surfaces that would be permanently stained or damaged by:
      a. Contact with primer and sealant.
      b. Cleaning methods used to remove primer and sealant smears.
   2. Place continuously along joint edges.
   3. Apply masking tape so it does not shift in position after placement.

3.3 APPLICATION
A. General:
   1. Comply with results and recommendations from:
      a. "Manufacturer's compatibility and adhesion test" described in Source Quality Control Article.
      b. "Field hand-pull adhesion test" described in Field Quality Control article.
   2. Provide compatible sealant system between dissimilar assemblies and adjacent construction.
   3. Seal locations necessary to create and secure continuous enclosure even though Drawings may not indicate all locations; do not seal weep holes.
   4. Seal to prevent migration of water, vapor, and air through joints.
   5. Comply with manufacturer's required application temperature and relative humidity ranges. Consult manufacturer when sealant cannot be applied within these ranges.
B. Sealant Backing Bond Breaker:
   1. Measure joint dimensions and size materials to achieve manufacturer-required width-to-depth ratios.
   2. Install to achieve sealant depth and sealant contact depth no greater than distance required by manufacturer for sealant material, joint width, and joint movement range.
   3. Install using blunt instrument to avoid puncturing.
   4. *Do not:*
      a. Twist, puncture, and tear material.
      b. Leave gaps between ends of material pieces.
      c. Stretch or compress material along its length.
      d. Stretch or compress tape material along its width.
   5. Install to provide optimum joint profile and in manner to provide not less than 6 mm (1/4 inch) sealant depth when tooled.

6. Install tape where insufficient joint depth makes use of rod not possible. Match tape width to joint width to prevent three-side adhesion. Do not wrap tape onto sides of the joint.
7. Replace backing bond breaker materials which have become wet with dry materials prior to sealant application.

C. Sealant:
1. Install sealants at same time as installation of backing bond breaker materials.
2. Do not exceed manufacturer's required:
   a. Material shelf life.
   b. Material working life.
   c. Installation time after mixing.
3. Comply with manufacturer's requirements for applying different sealant materials in direct contact with each other.
4. Use gun nozzle size to suit joint size and sealant material.
5. Install sealant with pressure-operated devices to form uniform continuous bead.
6. Use sufficient pressure to fill voids and joints full.
7. Install to adhere to both sides of joint.
8. Install to not adhere to back of joint; provide sealant backing.
9. Install sealant free of air pockets and embedded matter.
10. Recess sealant 3 mm (1/8 inch) from surface of pavements and horizontal surfaces.

D. Sealant Tooling:
1. Comply with manufacturer's tooling method requirements.
2. Tool sealant within manufacturer's tooling time limits.
3. Tooling liquids:
   a. Comply with manufacturer's requirements regarding use.
   b. Do not use when not permitted by manufacturer.
   c. Do not allow tooling liquids to come in contact with surfaces receiving sealant.
4. Produce smooth exposed surface.
5. Tool sealant to be free of:
   a. Air pockets and voids.
   b. Embedded impurities.
   c. Surface ridges, sags, and indentations.
6. Achieve full sealant contact and adhesion with substrate.
7. Form a concave tooled joint shape indicated in Section A of Figure 5 of ASTM C1193, unless otherwise indicated.
8. Remove excess sealant from surfaces adjacent to joint.
9. Allow acrylic latex sealant to achieve firm skin before paint is applied.

E. Masking Tape:
1. Remove immediately after tooling sealant and before sealant skin forms.
2. Remove without disturbing sealant.

F. Preformed foam sealants:
1. Position sealant in joint.
2. Apply adhesive and top coat for pavement type sealant in accordance with manufacturer's requirements.
3. Immediately after removing wrapping to expose adhesive side, press adhesive surface onto side of joint.
4. Do not stretch or compress material.
5. At ends, turns, and intersections, comply with manufacturer's requirements to produce continuity of seal.

3.4 FIELD QUALITY CONTROL

A. Field Hand-Pull Adhesion Test:
1. At field sample:

a. Before sealant installation is commenced, test materials for indications of staining and poor adhesion to substrate.
b. Perform after sealants have fully cured.
c. Perform under observation of [Architect and] manufacturer's technical representative.

2. Subsequent to commencement of sealant installation:
   a. Perform under observation of manufacturer's technical representative.
   b. Perform minimum of 4 times prior to completion of sealant installation.
   c. Schedule tests at evenly-spaced intervals during sealant installation at discretion of sealant manufacturer.
3. Procedure:
   a. Make knife cut through sealant from side to side of joint.
   b. At joint's sides, make two cuts approximately 2 inches long meeting cut made across joint width.
   c. Place a mark on cut portion of sealant 1 inch from cut across joint width.
   d. Use fingers to grasp 2 inch piece of sealant firmly between mark and cut across joint width.
   e. Pull cut portion outward at an angle of 90 degrees from sealant face.
   f. Use a ruler to measure distance that sealant is pulled.
   g. Pull uncut sealant out of joint to distance recommended by manufacturer for testing adhesive capability, but not less than a distance equal to maximum movement capability in extension.
   h. Hold extended sealant for a minimum of 10 seconds.
   i. If adhesion is proper, sealant should tear cohesively in itself or be difficult to adhesively remove from joint substrate.
4. Summarize test results in test report. Indicate:
   a. Sealants tested.
   b. Joint substrates.
   c. Cohesive failures.
   d. Adhesive failures.
   e. Pull distance used.
   f. Actions to correct failures and non-complying conditions.
5. In absence of noncomplying conditions, sealants which do not indicate adhesive failure from testing will be considered satisfactory.
6. Replace sealant removed from test locations by applying sealant in accordance with manufacturer's requirements for applying sealant to previously sealed joints.

3.5 CLEANING

A. Clean excess sealants and sealant smears from adjacent surfaces as application progresses; comply with sealant manufacturer's requirements and manufacturer of surface in which joints occur.
B. Repair or replace defaced or disfigured finishes caused by work of this Section and replace where installation techniques result in unsatisfactory joining of materials and unsightly conditions.

3.6 PROTECTION

A. Protect sealants from contamination until cured.
B. Protect sealant joints in horizontal surfaces from foot and vehicular traffic until cured.

3.7 SCHEDULE

A. Items Not to be Sealed:
   1. Joints covered by joint covers and seals specified in Section 05810.
   2. Joints, perimeter, and penetrations in fire-rated assemblies. Use firestops specified in Section 07840.

3. Joints, perimeter, and penetrations in sound-rated assemblies. Use acoustical sealant specified with sound-rated assembly in Section 09250.
4. Weep holes in masonry, windows.

B. Sealant Schedule:
1. Exterior locations:
   a. Wall joints:
      1) Bordered on both sides by porous building material (concrete, stone, masonry, exterior insulation and finish systems): Designation U-MC.
      2) Bordered on both sides by non-porous building material (coated and uncoated metals, anodized aluminum, and glass): Designation S-GP.
      3) Bordered on one side by porous building material (concrete, stone, masonry) and other side by non-porous building material (coated and uncoated metals, anodized aluminum, and glass): Designation U-MC.
   b. Perimeter of penetrations through walls: Designation U-MC S-GP.
   c. Expansion joints in ceilings, soffits, and overhead surfaces: Designation U-MC.
   d. Control joints and perimeter of penetrations in ceilings, soffits, and overhead surfaces: Designation U-MC.
   e. Wall and ceiling joints between frames and their rough opening: Designation U-MC.
   f. Wall and ceiling joints between frames and adjoining surfaces: Designation U-MC.
   g. Joints and perimeter of penetrations in horizontal pedestrian and vehicle traffic surfaces: Designation U-TB.
   h. Joints in Section 07610: Designation S-GP.
2. Interior Joints:
   a. Wall and ceiling joints subject to movement: Designation U-MC.
   b. Wall and ceiling joints not subject to movement: Designation AL.
   c. Interior side of exterior openings: U-MC.
   d. Floor joints: Designation U-TB.
   e. Wall and ceiling joints between frames and their rough opening: Designation AL.
   f. Wall and ceiling joints between frames and adjoining surfaces: Designation AL.
   g. Joints indicated to require abuse-resistance and pick-resistance: Designation U-AR.
   h. Interior Sanitary Joints; Joints Between Plumbing Fixtures and Adjoining Floor, Wall, and Ceiling Surfaces; Joints Between Back Splashes and Wall Substrates: Designation S-S.

END OF SECTION

SECTION 097800

WALL PANEL SYSTEM

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Pre-manufactured panel system including mounting hardware and specified accessories.

1.2 RELATED SECTIONS

A. Section 06 10 00 - Rough Carpentry; furring, blocking, and other carpentry work that is not exposed to view.

B. Section 09 21 16 - Gypsum Board Assemblies; for metal support systems not included in this section.

1.3 REFERENCES

A. American Society for Testing and Materials (ASTM) E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.

B. Architectural Woodwork Institute (AWI) Quality Standards.

1.4 SUBMITTALS

A. Submit under provisions of Section 01 30 00.

B. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.

C. Shop Drawings: Shop drawings in sufficient detail to show fabrication, installation, anchorage, and interface of the work of this Section with adjacent work.

D. Selection Samples: For each finish product specified, one complete set of color chips representing manufacturer's standard range of available colors and patterns.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications:
1. Firm experienced in successful production of wall system similar to that indicated for the Project, with sufficient production capacity to produce required units without causing delay in the work.
2. Provide certificate signed by panel manufacturer certifying that products comply with specified requirements.

B. Installer Qualifications: Demonstrate successful experience in installing architectural woodwork similar in type and quality to those required for this project.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Do not deliver wall system until painting, wet work, grinding, and similar operations

that could damage, soil, or deteriorate wall system have been completed in installation areas as specified by AWI 1700-G-3.

B. If panels are stored prior to installation, store them flat in completely enclosed areas, out of the weather. If panels must be stored in other than installation areas, store only in areas where environmental conditions comply with manufacturers recommendations. Do not expose panels to continuous direct sunlight, nor to extremes in temperature and humidity. Store products in manufacturer's packaging until ready for installation.

C. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.7 PROJECT CONDITIONS

A. Do not deliver or install wall system until building is enclosed, wet work is complete, and HVAC system is operating and will maintain temperature and relative humidity at occupancy levels during the remainder of the construction period as specified by AWI 1700-G-3.

B. Do not install wall system until normal lighting conditions exist. Normal lighting conditions are described as those in place when the project is finished. This includes, but not limited to, design lighting (wall washers, spot lights and flood lights, and similar fixtures) and natural lighting.

C. Wall, ceilings, floors, and openings must be level, plumb, straight, in-line and square as specified by AWI 1700-G-3.

D. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits. Panels shall be conditioned in the environment in which they will be installed for a minimum of 72 hours prior to installation. The recommended environment is 75 degrees F (24 degrees C) and 45 percent relative humidity.

E. Environmental Conditions: Comply with Woodwork Manufacturer's recommendations for optimum temperature and humidity conditions for woodwork during its storage and installation. Do not install woodwork until these conditions have been attained and stabilized so that woodwork is within plus or minus 1.0 percent of optimum moisture content from date of installation through remainder of construction period.

1.8 WARRANTY

A. The manufacturer warrants any product it has manufactured and sold against defects in materials or workmanship for a period of five years from the date of original purchase and acceptance for use. This warranty extends to products assembled / installed and used in the manner intended and does not cover damage or failure caused by misuse, abuse or accidents, exposure to extreme temperature, improper installation, improper maintenance and exposure to water or excessive humidity or excessive moisture.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: Panel Specialists, Inc.; 3115 Range Rd., Temple, TX 76504. ASD. Toll Free Tel: (800) 947-9422. Tel: (254) 774-9800. Fax: (254) 774-7222. Email: psiwalls@panelspec.com. Web: http://www.panelspec.com.

B. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00.

2.2 PANEL SYSTEMS

A. Provide high-pressure decorative laminate surfacing panels where shown on the drawings, as specified herein, and as needed for a complete and proper installation.

B. Comply with applicable requirements of "Architectural Woodwork Quality Standards" published by the Architectural Woodwork Institute (AWI) unless otherwise indicated.
1. Quality Standards: Comply with AWI Section 500 and its division 500B for panels with 3/8 inch (9.5 mm) core material for 7/16 inch (11 mm) laminated HPDL Panels.

C. Panel system shall be fire retardant complying with the following fire classification:
1. Class 1/A - Flame Spread 0-25, Smoke Developed 450 or less.

D. Panel System: #310EB as manufactured by Panel Specialists, Inc. A progressive panel system with a hidden divider for a continuous decorative face with a consistent reveal and a 1/8 inch (3 mm) PVC bevel edge. Recommended for vertical and horizontal wainscot interior installations and full height vertical and horizontal interior installations. Maximum panel length for horizontal installations is 96 inches (2438 mm).
1. Panel Thickness: 7/16 inches (11.1 mm).

2. Reveal: System to provide a reveal of 1/2 inch (6 mm) with a coordinating or contrasting reveal edge color as scheduled.

3. Edge Banding: 1/8 inch (3mm) standard edge banding.

4. Laminate: Wilsonart Laminate Antique Brush 4823-60 and for Accent Color Black 1595-01.

5. Main Laminated Panel Fire Rating:
   a. Fire Rating: ASTM E84, Class A.

6. Panel Dimensions: Refer to drawings.

7. Molding: Provide manufacturer's accessories.
   a. #312 Divider.
   b. #103L-90 degree and #103L-135 degree Outside Corner Molding, recommended for all systems.
   c. #304-90 End cap for 90 degree and #304-135 End cap for 135 degree base and wainscot cap.
   d. #304 Cap Molding.
   e. #304A Trim Molding.

8. Moldings shall be finished in powder coated and factory paint finish or finished in anodized finishes. Color as scheduled.

9. 90 degree and 135-degree corner moldings shall be clad with laminate as scheduled.

2.3 MATERIALS

A. Decorative laminates (VGS, VGP, VGF & HGS) and non-decorative backers (BKV) used to surface wall panels systems shall be manufactured to meet or exceed the National Electrical Manufacturing Association (NEMA LD3-2005) for thickness, performance properties and appearance.

B. Particleboard: 45# density shall be used in Class III panel composition. Fire-rated particle board shall be used for Class I and Class II panel compositions (refer to AWI Section 200)

PART 3 EXECUTION

3.1 EXAMINATION

A. Do not begin installation until substrates have been properly prepared according to AWI 1700-G-3.

B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 FIELD DIMENSIONS

A. Where wall system is indicated to be fitted to other construction, check actual dimensions of other constructions by accurate field measurements before manufacturing wall system; show recorded measurements on final shop drawings. Coordinate manufacturing schedule with construction progress to avoid delay of work.

B. Where field measurements cannot be made without delaying the work, guarantee dimensions and proceed with manufacture of wall system without field measurements coordinate other construction to ensure that actual dimensions correspond to guaranteed dimensions.

3.3 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.4 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. When interior paneling is on an exterior wall or in a wet area, provide a barrier sheet of plastic film between the outside wall and the panels in order to prevent condensation affecting the stability of the panels.

C. Field cutting of all wall systems should be accomplished using carbide tools. All face penetrations should have a minimal 1/8 inch (3 mm) radius according to NEMA Standards Publication LD 3-2005.

D. All wall systems should receive an "S" bead of panel mastic on the back of the panel during installation.

E. For vertical applications, wall systems shall be mechanically fastened to horizontal furring strapping spaced 24 inches (610 mm) O.C. Furring straps shall be no less than 18 gauge 3-1/2 inches (89 mm) wide, continuously. For horizontal applications, wall systems shall be mechanically fastened to horizontal furring strapping spaced 24 inches (610 mm) o.c. and/or mechanically fastened to studs. Furring straps shall be no less than 18 gauge 3-1/2 inches (89 mm) wide, continuously.

3.5 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION