PHYSICAL EDUCATION BUILDING EXTERIOR RENOVATIONS
MONTGOMERY COLLEGE, GERMANTOWN CAMPUS
GERMANTOWN, MD

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PREPARED FOR:

MONTGOMERY COLLEGE
GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

PREPARED BY:

SIMPSON GUMPERTZ & HEGER INC.
1828 L STREET NW, SUITE 950
WASHINGTON, DC 20036

ENGINEER IN RESPONSIBLE CHARGE:
DAVID S. SLICK (MD PE NO. 15484)

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No.	Date	Description	By
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	11/20/15	Pricing/Permit Set	
	08/28/15	100% Design Development	

PHYSICAL EDUCATION BLDG
EXTERIOR RENOVATION
MONTGOMERY COLLEGE
GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

Project

COVER SHEET

Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
BSR/CEM	DSS	NTS

STATE OF MARYLAND — DAVID STEVEN SLICK — 15484 — REGISTERED PROFESSIONAL ENGINEER

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 15484 Exp. Date: 9/1/17
Seal

Drawing No.

G001

General Notes:

1. Applicable Building Codes:
   - International Building Code (IBC) 2015
   - International Existing Building Code (IEBC) 2012
   - International Energy Conservation Code (IECC) 2015
   - National Fire Protection Association (NFPA) 1
   - International Fire Code (IFC) 2012
   - 2010 ADA Standards for Accessible Design
   - National Fire Protection Association (NFPA) 241
2. Roof design wind uplift pressures (ASCE 7–10): refer to Structural Drawings.
3. Wall design wind pressures (ASCE 7–10): refer to Structural Drawings.
4. Classification of Work: Alteration – Level 2.
5. EIFS Special Inspections: Per Section 1705.17 of the 2015 IBC, special inspections shall be required for exterior insulation and finish systems. Exception states that EIFS assemblies applied over a water–resistive barrier with a means of drainage shall not require special inspection.
6. Energy Compliance Path (Exterior Envelope): IECC 2015 prescriptive compliance path.
7. The exterior work shown on these plans addresses repair and or replacement of the exterior wall cladding, windows and doors, low–slope and steep–slope roofing, and built–in metal gutter assemblies around the PG Building. For additional information, see the Drawings.
8. Coordinate this work with the affected mechanical, plumbing, and electrical systems on the exterior walls and roofs around the PG Building, generally referenced on the Drawings.
9. The work does not include removal of the existing low–slope roofing over the Gymnasium or Central Lobby spaces except as noted around the roof or rising wall perimeters.
10. Field Verification: Scales and dimensions, where shown, are based on the original construction drawings and limited measurements taken during our field investigation. Verify all site conditions, configurations, materials, and dimensions by field measurements before material fabrication or delivery, and indicate measurements needed for the work on Shop Drawings. Do not scale these Drawings. Notify the Engineer immediately of any inconsistency between the conditions found in the field and those shown in the Drawings. Coordinate fabrication schedule with the construction progress to avoid delaying the work. Consider the special conditions associated with repairs to existing construction when measuring.

Existing Building Information:

All information below relates to the existing building and shall remain unaltered:

1. Construction Type: III B
2. Occupancy Group: A
3. Building Area: 35,400 sq.ft. (0 sq.ft. of interior space renovated)
4. Building Height: One story with double height spaces (30.25 ft.), no basement
5. High Rise: No
6. Covered Mall: No
7. IBC 510 Pedestal Construction: No
8. Fully Sprinklered: Yes
9. Fire Alarm: Yes
10. Occupant Load: Unaltered
11. Exterior Wall System: CMU bearing walls
12. Interior Partition Walls: CMU
13. Natatorium "High" Roof Framing: Glulam beams with supplemental steel truss supports
14. Gymnasium "High" Roof Framing: Glulam beams
15. Steep–Sloped Roof Framing: Cold–formed metal framing
16. Central Roof Framing: Steel bar joists
17. Lateral load resisting system: CMU walls

Staging, Protection, and Site Safety Requirements1:

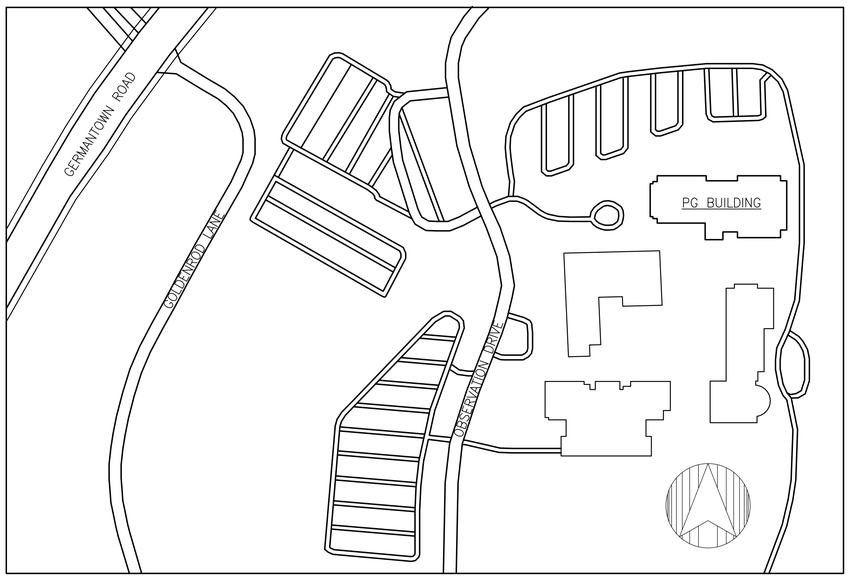
1. The contractor is solely responsible for exterior building access, site safety, and construction means and methods.
2. Provide access to the exterior building walls and roofs to perform the required work. Interior access is only permitted for interior work.
3. Coordinate required staging area and access with the Owner.
4. Provide temporary protection at all times to protect all moisture sensitive building components and where work is being performed overhead of exterior doors and walkways. Keep water out of the building at all times. Coordinate all temporary protection measures with the Owner.
5. Maintain safe pedestrian access to publicly trafficked walk areas at all times. Maintain all emergency egress routes, meeting all applicable building codes and regulatory requirements.
6. Protect all landscaping from construction activity, including, but not limited to, shrubbery, grass, patios, paving, and walkways. Repair all damage to landscaping at no cost to the Owner.
7. Protect all exterior building components newly installed or scheduled to remain, including, but not limited to, windows, masonry, glazing, EIFS, and roofing from construction activity. Repair all damage to building components at no cost to the Owner. Where roof top construction activity and construction traffic is required, provide temporary protection, consisting of 1–½ in. thick extruded polystyrene insulation covered with plywood over completed roof areas and existing–to–remain roof areas. Ballast temporary protection to prevent wind uplift.
8. Protect scaffolding and the building against unauthorized access (day and night).
9. Provide appropriate covered dumpsters for temporary debris storage during construction activity. Coordinate placement and removal of the dumpsters with the Owner.
10. Overhead protection.
11. When the building is protected by fire protection systems, such systems shall be maintained operational at all times during alteration as required per NFPA 1, 16.4.4.1.
12. Where alteration requires modification of a portion of the fire protection system, the remainder of the system shall be kept in service and the fire department shall by notified as required per NFPA 1, 16.4.4.2.
13. When it is necessary to shut down the system, the Authority Having Jurisdiction shall have the authority to require alternative measures of protection until the system is returned to service as required per NFPA 1, 16.4.4.3.
14. The fire department shall be notified when the system is shut down and when the system is returned to service as required per NFPA 1, 16.4.4.4.
15. All required exit components shall be maintained in accordance with the building code as deemed necessary by the Authority Having Jurisdiction as required per NFPA 1, 16.4.4.5.
16. Fire–resistive assemblies and construction shall be maintained as required per NFPA 1, 16.4.4.6.

Proposed Schedule:

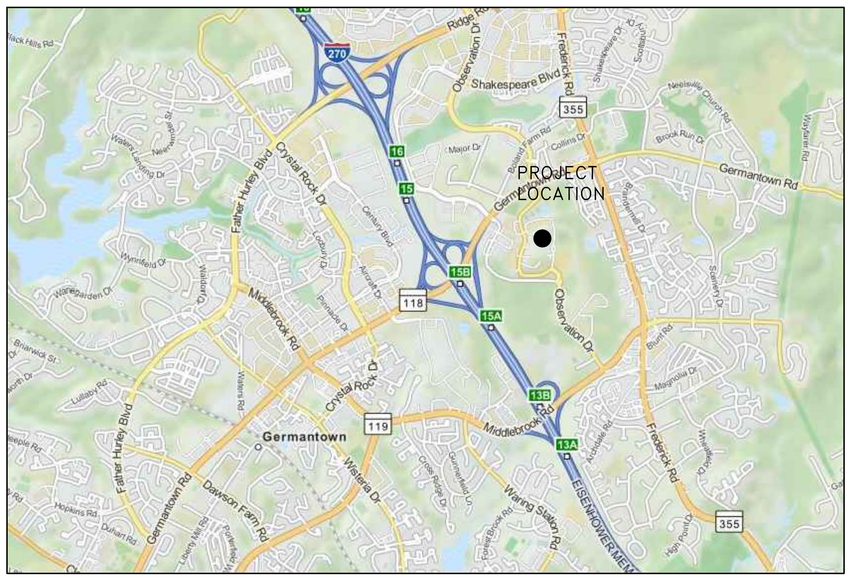
Natatorium Walls	– July 2016
Natatorium Roof (Low–Slope)	– August 2016
Natatorium Roof (Steep–Slope)	– July 2016
Windows	– August 2016
Classroom Walls Around Windows	– August 2016
Office Walls Around Windows	– August 2016
Gymnasium Walls	– October/November 2016
Gymnasium Roofs	– December 2016
Substantial Completion	– August 2017

IECC 2015 CHAPTER 402 ENVELOPE REQUIREMENTS

OPAQUE THERMAL ENVELOPE INSULATION COMPONENTS, R–VALUE METHOD; TABLE C402.3			FENESTRATION SYSTEMS; TABLE C402.4 & C402.1.4		
COMPONENT	REQUIRED MIN. R–VALUE	PROVIDED R–VALUE	FENESTRATION SYSTEM	REQUIRED MAX. U–VALUE	PROVIDED U–VALUE
STEEP–SLOPED ROOFS	R–38	R–39	HOLLOW METAL DOORS (SWINGING)	0.61	
LOW–SLOPED ROOFS	3–30ci	R–30ci	FIXED FENESTRATION	0.38	
MASS WALLS AT CMU BACKUP (BRICK & EIFS CLADDING)	R–9.5ci	R–15ci OR R–16ci	OPERABLE FENESTRATION	0.45	
WALLS AT METAL STUD BACKUP (EIFS CLADDING)	R–13 + R–7.5ci (U–FACTOR OF 0.064)	R–16 (U–FACTOR OF 0.062)	ENTRANCE DOORS	0.77	



1 SITE PLAN
N.T.S.



2 AREA MAP
N.T.S.

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	08/28/15	100% Design Development	

PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE GERMANTOWN, MD 20876

Project

SITE PLAN AND GENERAL NOTES

Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
BSR/CEM	DSS	NTS

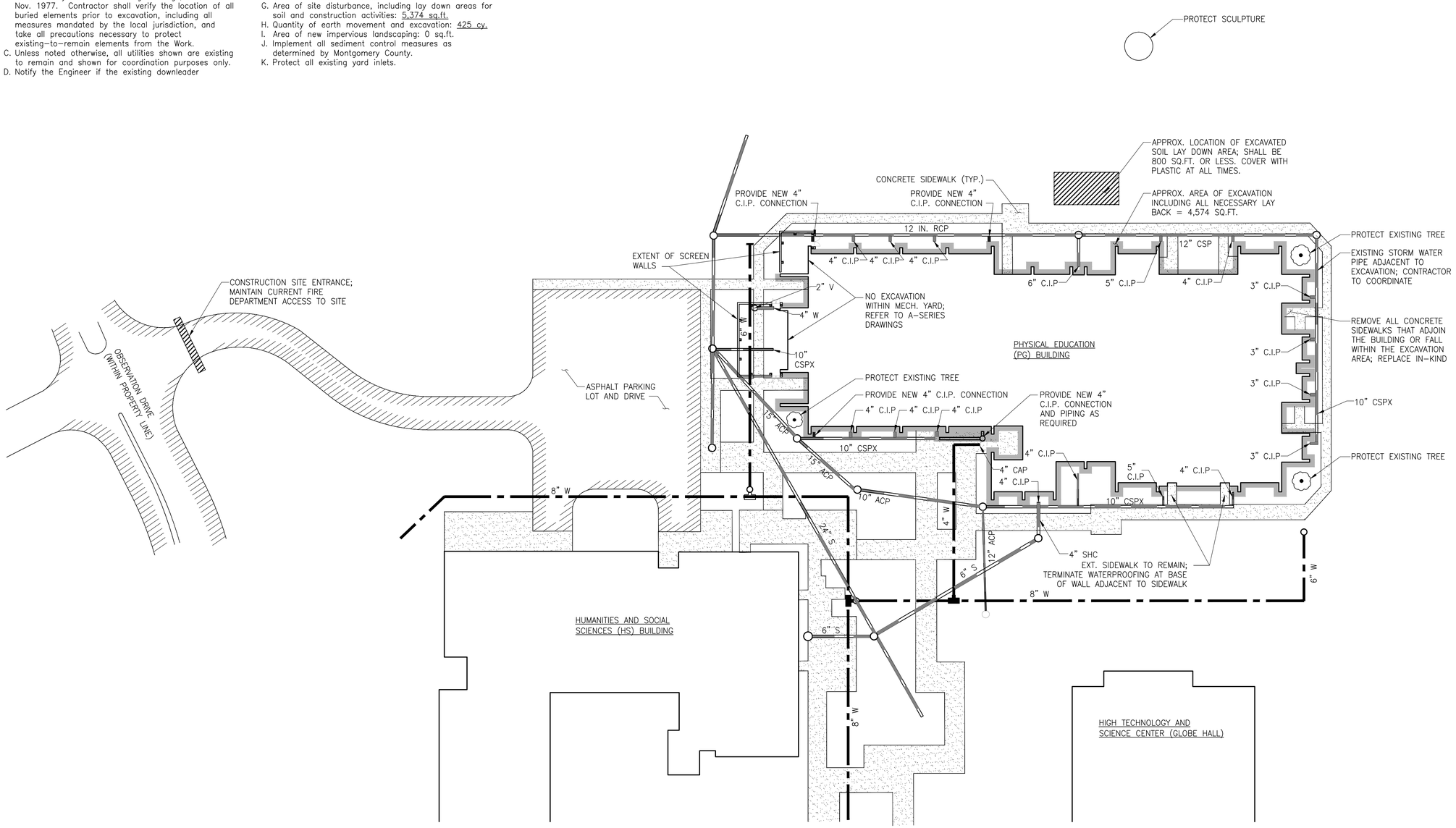
STATE OF MARYLAND — CHRISTOPHER E. MCVEIGH — REGISTERED ARCHITECT

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 33184, Exp. Date: 9/1/17
Seal

Drawing No.
G002

GENERAL NOTES:

A. Project site shown is within the property line of the College property; boundary extends along Germantown Rd. on the north side and Frederick Rd. on the east side; refer to G002.
B. All utility lines and below–grade piping are shown schematically based on existing drawings, dated 23 Nov. 1977. Contractor shall verify the location of all buried elements prior to excavation, including all measures mandated by the local jurisdiction, and take all precautions necessary to protect existing–to–remain elements from the Work.
C. Unless noted otherwise, all utilities shown are existing to remain and shown for coordination purposes only.
D. Notify the Engineer if the existing downleader connection to the stormwater management system cannot be reused or is not serviceable.
E. The extent of excavation shown includes the extent of all lay–back and benching necessary to perform work.
F. Remove and replace in–kind all sidewalks that extend within the excavation area.
G. Area of site disturbance, including lay down areas for soil and construction activities: 5,374 sq.ft.
H. Quantity of earth movement and excavation: 425 cy.
I. Area of new impervious landscaping: 0 sq.ft.
J. Implement all sediment control measures as determined by Montgomery County.
K. Protect all existing yard inlets.



LEGEND

C.I.P.	CAST IRON PIPE	
CSPX	CONCRETE SEWER PIPE, EXTRA STRENGTH	
ACP	ALUMINUM CORRUGATED PIPE	
R.C.P.	REINFORCED CONCRETE PIPE	
W	WATER LINE	
V	VALVE	
SD	STORM DRAIN	
	STORM DRAIN PIPE	
	WATER LINE	
	EXTENT OF EXCAVATION; 3'–0" BEYOND PERIMETER OF BUILDING	

1 SITE PLAN

1/32" = 1'–0"

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Project

SITE PLAN

Drawing Title

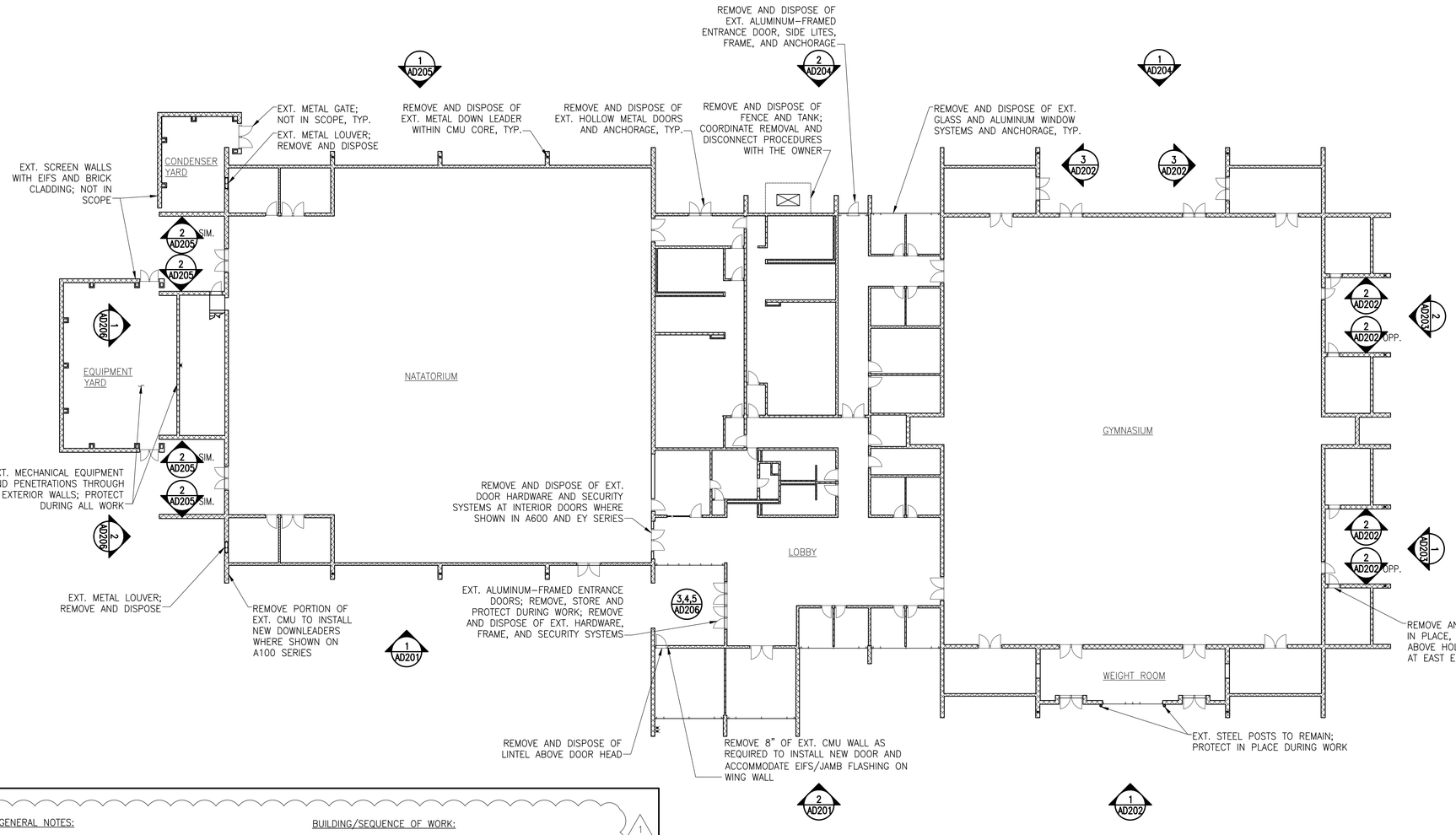
Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
CEM/BSR	DSS	AS SHOWN

STATE OF MARYLAND — DAVID S. STEPHENSON — No. 15704 — REGISTERED PROFESSIONAL ENGINEER

Professional Certification.
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 15704 Exp. Date: 9/1/17
Seal

Drawing No.

C100



1 FIRST FLOOR DEMOLITION PLAN

NOTE: INTERIOR ASSEMBLIES NOT SHOWN FOR CLARITY 1/16" = 1'-0"

GENERAL SCOPE OF WORK THIS DRAWING

Exterior Walls:

1. Excavate the existing soil or gravel surfacing around the building perimeter to expose the existing wall footings.
2. Existing stucco cladding over CMU backup walls to remain. Remove and dispose any loose or damaged existing stucco cladding; patch and repair damaged or removed stucco as required.
3. Remove and dispose of exposed exterior downleaders. Remove and dispose of the existing stucco cladding and CMU wing walls where shown on the drawings to remove and replace the existing downleaders set into the CMU wing walls.
4. Remove and dispose of the existing EIFS cladding, rigid insulation, sheathing, flashings, metal copings and accessories, and miscellaneous metal furrings supporting the EIFS cladding assemblies at the upper and lower soffits, exterior beams, Weight Room addition, and other wall areas around the building.
5. Remove and dispose of the existing exterior windows and entrance door assemblies, clerestory windows, and exterior hollow–metal doors, including all perimeter frames and anchorage, unless noted otherwise.
6. Remove and dispose of the existing door hardware and security systems at interior doors where shown in A600 and EY Series.
7. Openings at removed exterior doors serving as exit doors must be maintained for appropriate egress; replacement doors must have appropriate panic hardware in accordance with IBC Section 1010.1.9.9 and Section 1010.1.10, as shown on A600. (1)
8. Remove and dispose of the existing wood trellises. Existing trellis anchorage to remain.
9. Protect in place the existing exterior metal columns on the south elevation of the Weight Room.
10. Remove and store, or protect in place, all exterior light fixtures, security cameras, fans, louvers and vents, fire alarm and fire department connection, access hatches, and other miscellaneous components on the exterior wall unless otherwise described in the Drawings.
11. Remove the existing exterior conduits over the cladding assembly and relocate within the building interior; extend through exterior wall and provide new cladding where required to service exterior components to remain.

GENERAL NOTES:

1. Building will be fully occupied from 28 August 2016 to 1 May 2017, during the work. The building will be unoccupied from 15 May 2016 to 28 August 2016, during the work.
2. The renovation work will be completed in phases based on the building occupancy and college's schedule.
3. Automatic sprinkler and fire alarm system will remain operational during entire duration of project.
4. Floors and other walking surfaces within an exit and within the portions of the exit access and exit discharge, designated in IBC 7.8.1.1, shall be illuminated as follows:
   - 4.a. At conditions of stair use, minimum illumination for new stairs shall be at least 10 foot–candles at walking surface.
   - 4.b. Minimum illumination for walking surfaces shall be at least 1 foot–candle.
   - 4.c. In assembly occupancies, the illumination of walking surfaces at exit access shall be at least 0.2 foot–candles.
   - 4.d. Minimum illumination requirements shall not apply where operations or processes require low–lighting levels per NFPA 101, 7.8.1.3.

BUILDING/SEQUENCE OF WORK:

Enclosure work shall progress from the Natatorium to the Classrooms to the Gymnasium

• Begin construction	– 15 May 2016
• In–situ mockup completion	– 1 July 2016
• Substantially complete work at Steep–sloped roofs	– 28 August 2016
• Substantially complete work at curtain walls	– 28 August 2016
• Substantial completion of work	– 1 May 2017
• Punch–list and close–out completion	– 1 August 2017

NOTE: Electrical work shown on this drawing shall be approved by an electrical engineer licensed in the State of Maryland, and shall be performed by a qualified electrician licensed in the State of Maryland.

LEGEND

- DOOR SWING DIRECTION; REMOVE AND DISPOSE OF EXT. EXTERIOR DOORS ONLY; UNLESS NOTED OTHERWISE
- REMOVE AND DISPOSE OF EXT. ALUMINUM–FRAMED WINDOWS
- METAL LOUVER
- EXT. CMU WALLS TO REMAIN; PATCH AND REPAIR AS NECESSARY
- REMOVE AND DISPOSE OF EXT. DOWN LEADER

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Project

FIRST FLOOR DEMOLITION PLAN

Drawing Title

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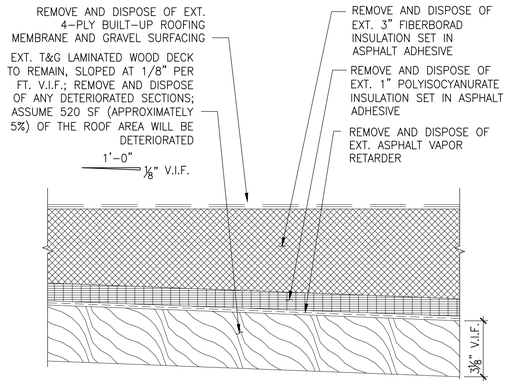
Drawn	Approved	Scale
BSR	DSS	AS SHOWN

Drawing No.

AD100

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 13784 Exp. Date: 6/1/17

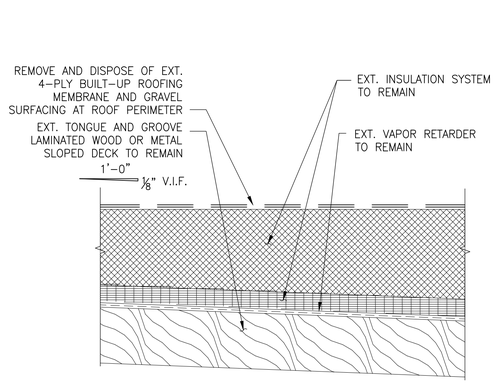
Seal



NOTE: REMOVE AND DISPOSE OF TAPERED FIBERBOARD INSULATION AT CRICKETS; 6" MAX. TAPERED INSULATION HEIGHT

1 AD110 REMOVALS – TYPICAL NATATORIUM ROOFING

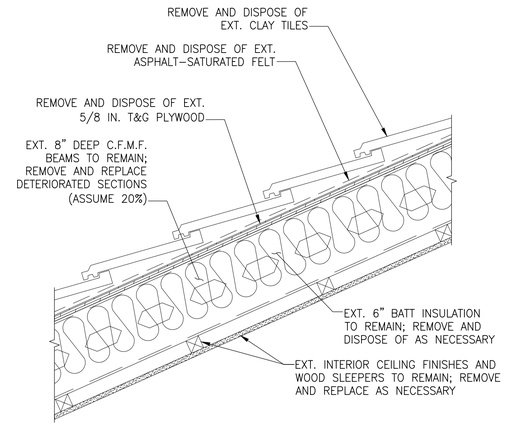
3" = 1'-0"



NOTE: REMOVE AND DISPOSE OF EXT. GRAVEL STOPS AND/OR PARAPET COPINGS

2 AD110 REMOVALS – TYPICAL GYMNASIUM AND CENTER ROOFING AREAS

3" = 1'-0"



3 AD110 REMOVALS – TYPICAL CLAY TILE ROOF

1 1/2" = 1'-0"

GENERAL SCOPE OF WORK SHOWN ON THIS DRAWING:

Natatorium and Weight Room Roofs:

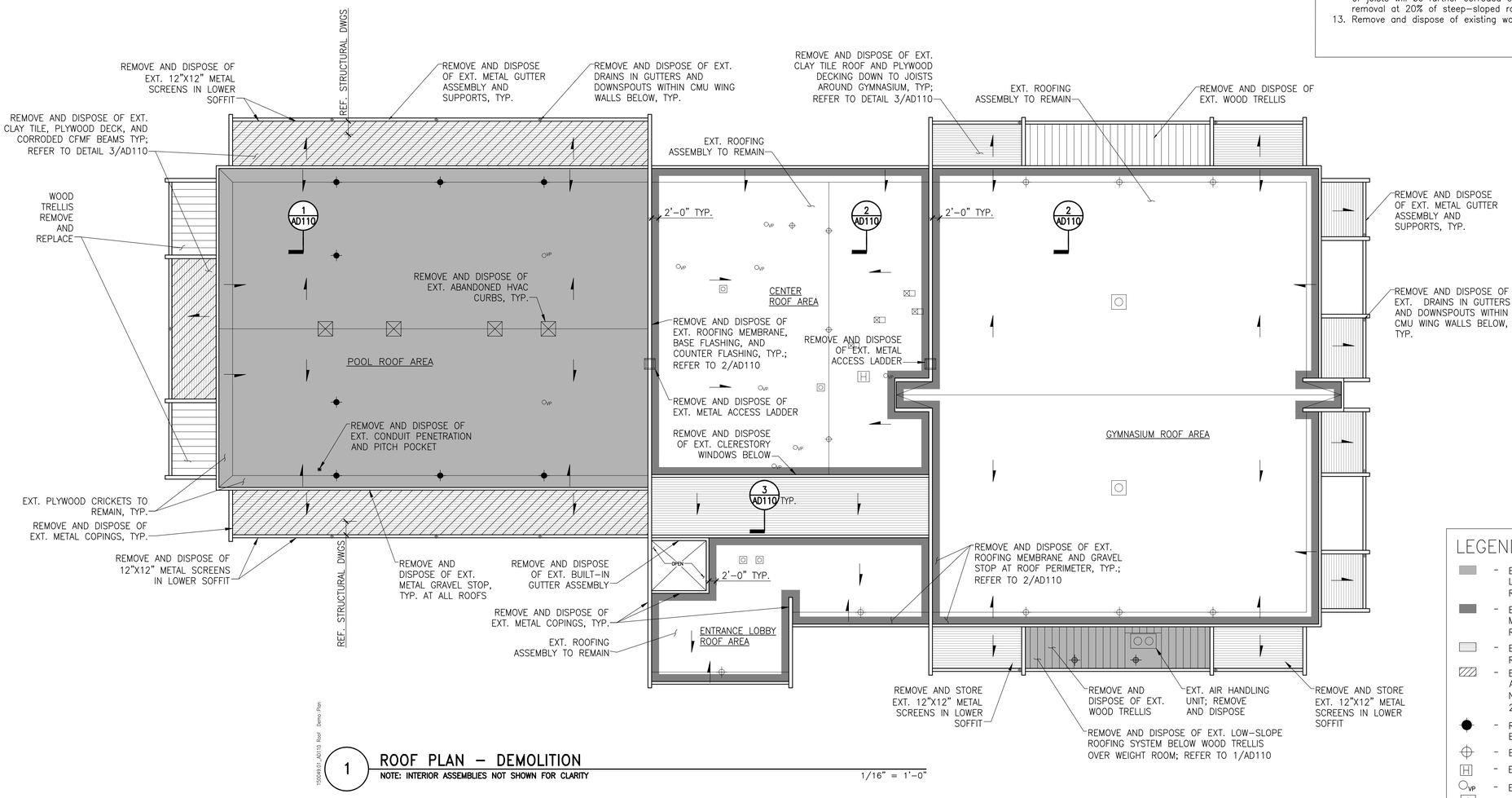
1. Remove and dispose of the existing roofing membrane, gravel surfacing, rigid insulation, and vapor retarder over the existing wood decking.
2. Remove and dispose of deteriorated portions of the existing wood decking. Assume 520 SF (approximately 5%) of the Natatorium roof deck will require replacement.
3. Remove and dispose of the existing pipe penetration flashings, roof drain bowls and strainers, metal coping, and gravel stop.
4. Remove and dispose of the existing HVAC curbs. Temporarily remove and cap existing conduit on roof (V.I.F. if active).

Gymnasium and Central Roof Areas:

5. Remove and dispose of a 24 in. wide strip of the existing roofing membrane and gravel surfacing over the existing insulation and wood decking around the roof perimeters.
6. Remove and dispose of the existing roofing membrane, gravel surfacing, rigid insulation, and membrane underlayment over the low-slope roof above the Weight Room along the south elevation of the Gymnasium.
7. Remove and dispose of the existing metal copings, gravel stops, membrane base flashings and metal counterflashings.
8. Remove and dispose of the existing metal roof ladders from the low roof onto the Natatorium and Gymnasium roofs.
9. Remove and store, or protect in place, any and all rooftop equipment or penetrations that are locations within the roofing removal. Remove and dispose of the existing roof drain bowls at the low-slope roof above the Weight Room.

Steep-Slope Roofs:

10. Remove and dispose of the existing clay tile shingles, roofing underlayment(s), plywood sheathing, metal flashings, metal counterflashings, and metal copings.
11. Remove and dispose of the existing metal gutter liner, gutter supports and framing, internal drains, and downleaders set within the CMU fin walls.
12. Around the Natatorium, remove and replace bottom section of corroded roof joist as shown on the structural drawings. Assume the additional of joists will be further corroded or deteriorated and require full removal at 20% of steep-sloped roof area.
13. Remove and dispose of existing wood trellis.



1 ROOF PLAN – DEMOLITION

NOTE: INTERIOR ASSEMBLIES NOT SHOWN FOR CLARITY

1/16" = 1'-0"

LEGEND

- EXTENT OF NATATORIUM LOW-SLOPE ROOFING REMOVAL; REFER TO 1/AD110
- EXTENT OF LOW-SLOPE ROOFING MEMBRANE AND GRAVEL STOP REMOVAL; REFER TO 2/AD110
- EXTENT OF STEEP-SLOPE ROOFING REMOVAL; REFER TO 3/AD110
- EXTENT OF C.F.M.F. BEAM REMOVAL AT STEEP-SLOPE ROOFING AROUND NATATORIUM; 134 BEAMS (ASSUME 20% ARE DETERIORATED)
- REMOVE AND DISPOSE OF EXT. ROOF DRAIN
- EXT. ROOF DRAIN TO REMAIN
- EXT. ROOF HATCH
- VP - EXT. VENT PIPE
- EXT. HVAC EQUIPMENT AND CURB; PROTECT DURING CONSTRUCTION
- ANNOTATION DENOTING ROOF SLOPE

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Consultant

BID SET

No.	Date	Description	By
	08/28/15	100% Design Development	
	11/20/15	Pricing/Permit Set	
1	01/22/16	Bid Set (County Response Set)	

PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION
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20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

Project

OVERALL ROOF DEMOLITION PLAN

Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
CEM/BSR	DSS	AS NOTED

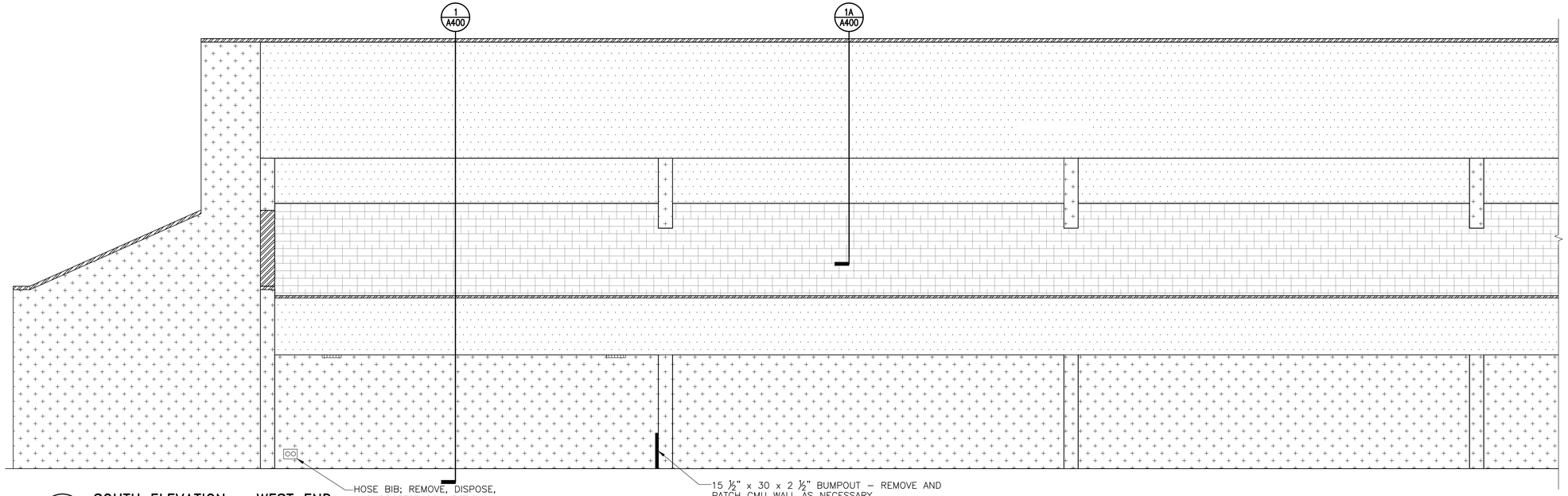
Drawing No.

AD110

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 13784 Exp. Date: 6/1/17

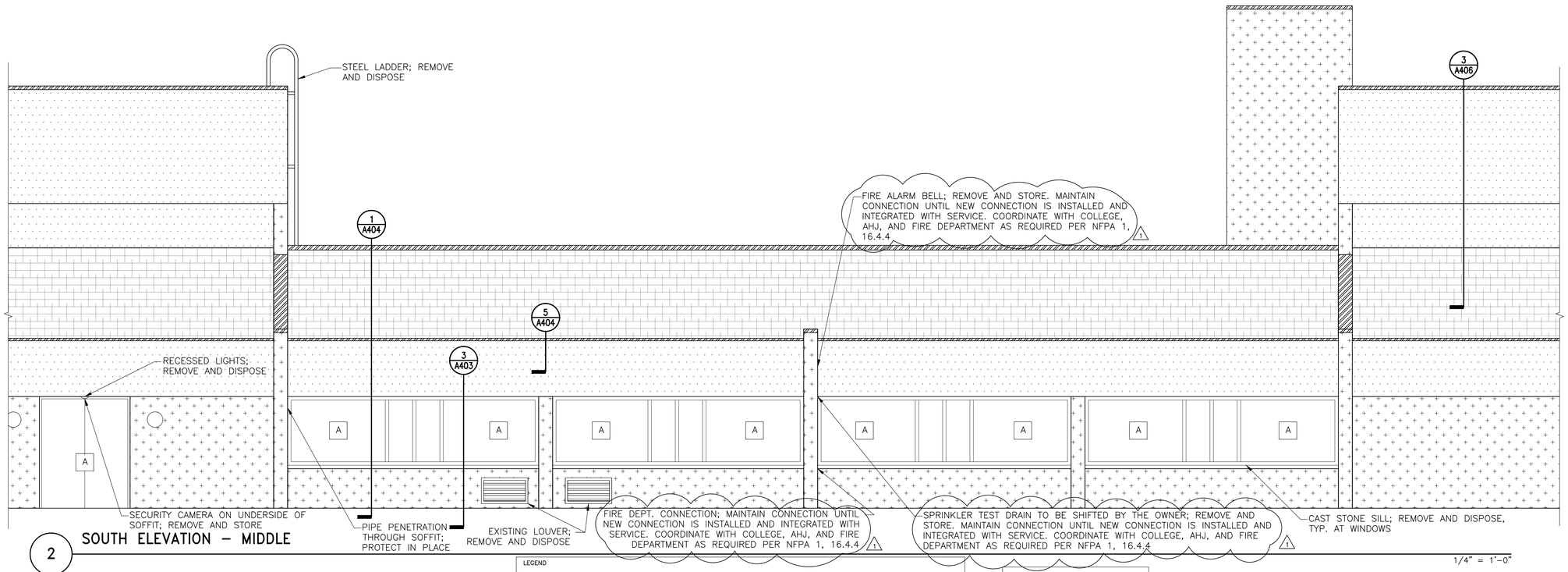
Seal

150049.01_AD110 Roof Demo Plan



1 SOUTH ELEVATION – WEST END

1/4" = 1'–0"



2 SOUTH ELEVATION – MIDDLE

1/4" = 1'–0"

LEGEND

- DIRECT APPLIED STUCCO ON CMU BACKUP; TO REMAIN, REPAIR AS REQUIRED
- EIFS ASSEMBLY OVER SHEATHING AND CFMF BACKUP; REMOVE AND DISPOSE CLADDING AND CFMF
- EIFS ASSEMBLY OVER CMU BACKUP; REMOVE AND DISPOSE
- CLAY TILE ROOF; REMOVE AND DISPOSE DOWN TO EXISTING JOISTS AS SHOWN ON AD110
- METAL GRAVEL STOP AND COPINGS; REMOVE AND DISPOSE
- A DOOR/WINDOW; REMOVE AND DISPOSE
- HOSE BIB; REMOVE AND DISPOSE
- VENT ON UNDERSIDE OF SOFFIT; REMOVE AND STORE
- WALL-MOUNTED LIGHT FIXTURE; REMOVE AND STORE
- RECESSED LIGHT; REMOVE AND DISPOSE
- TRELLIS ANCHORS TO REMAIN; ANCHORS ARE ALSO ATTACHED TO BACKSIDE OF EIFS CLAD BEAM (NOT SHOWN)
- LIGHT FIXTURE; REMOVE AND DISPOSE
- PANEL BOX; REMOVE AND DISPOSE
- METAL LOUVER

NOTE: VERIFY ALL TYPES, NUMBER AND LOCATION OF MEP FIXTURES ON THE ELEVATIONS

NOTE: Electrical work shown on this drawing shall be approved by an electrical engineer licensed in the State of Maryland, and shall be performed by a qualified electrician licensed in the State of Maryland.

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No.	Date	Description	By
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	08/28/15	100% Design Development	

PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE GERMANTOWN, MD 20876

Project

DEMOLITION ELEVATIONS

Drawing Title

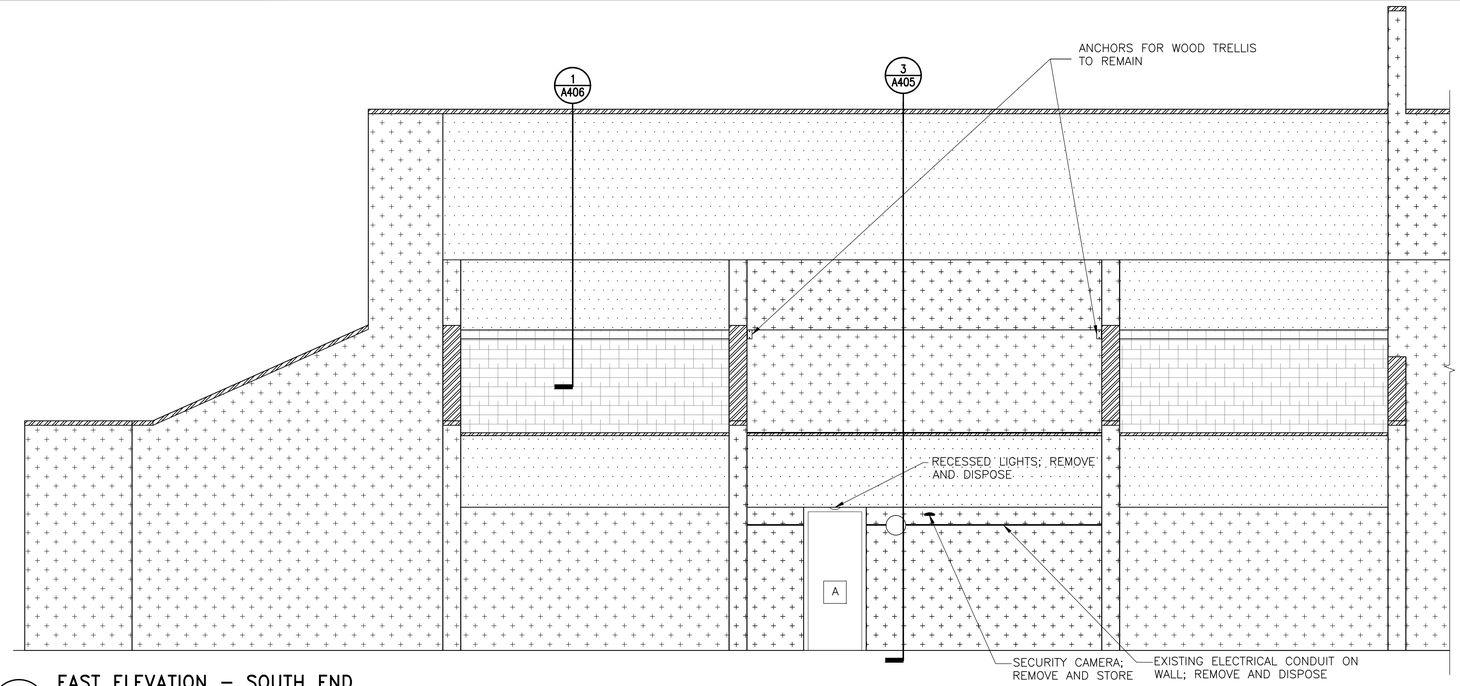
Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
BSR/CEM	DSS	AS SHOWN

STATE OF MARYLAND — CHRISTOPHER E. MCVEIGH — 15484 — REGISTERED PROFESSIONAL ENGINEER

Professional Certification.
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 15484 Exp. Date: 6/1/17
Seal

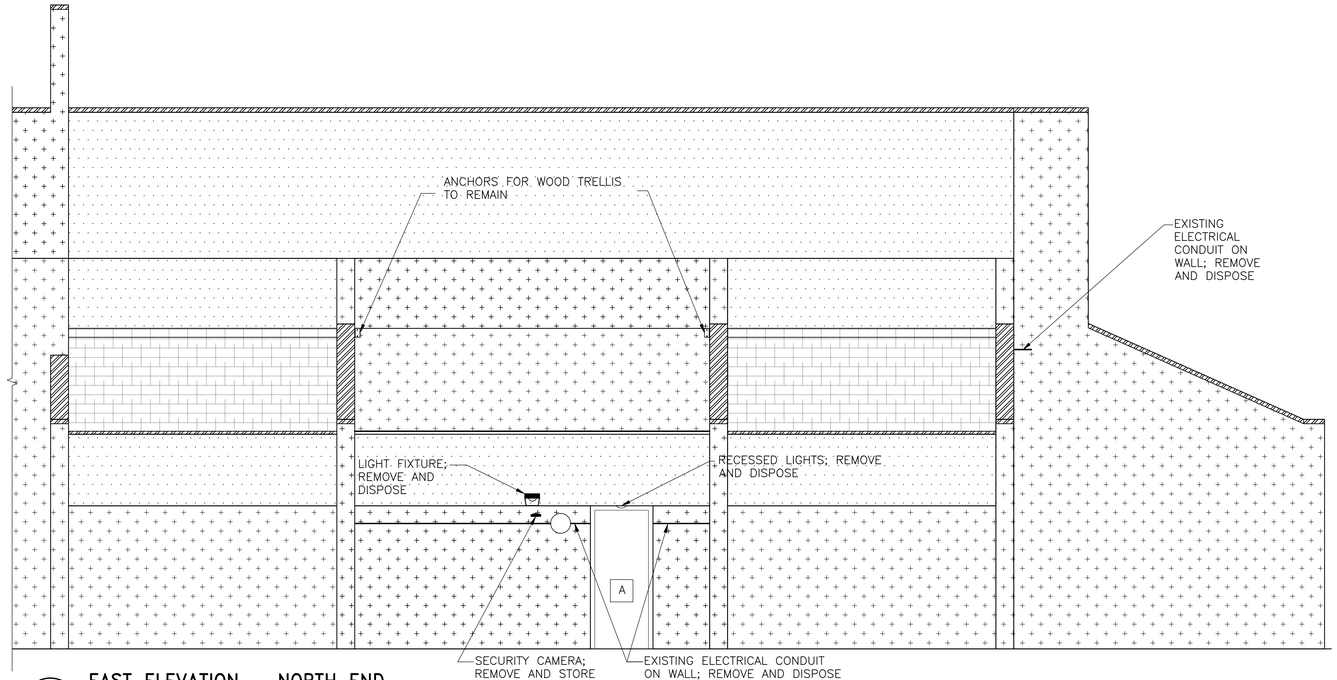
Drawing No.

AD201



1 EAST ELEVATION – SOUTH END

1/4" = 1'-0"



2 EAST ELEVATION – NORTH END

1/4" = 1'-0"

LEGEND

- DIRECT APPLIED STUCCO ON CMU BACKUP; TO REMAIN, REPAIR AS REQUIRED
- EIFS ASSEMBLY OVER SHEATHING AND CFMF BACKUP; REMOVE AND DISPOSE CLADDING AND CFMF
- EIFS ASSEMBLY OVER CMU BACKUP; REMOVE AND DISPOSE
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- METAL GRAVEL STOP AND COPINGS; REMOVE AND DISPOSE
- A DOOR/WINDOW; REMOVE AND DISPOSE
- HOSE BIB; REMOVE AND DISPOSE
- VENT ON UNDERSIDE OF SOFFIT; REMOVE AND STORE
- WALL-MOUNTED LIGHT FIXTURE; REMOVE AND STORE
- RECESSED LIGHT; REMOVE AND DISPOSE
- TRELLIS ANCHORS TO REMAIN; ANCHORS ARE ALSO ATTACHED TO BACKSIDE OF EIFS CLAD BEAM (NOT SHOWN)

NOTE: VERIFY ALL TYPES, NUMBER AND LOCATION OF MEP FIXTURES ON THE ELEVATIONS

- LIGHT FIXTURE; REMOVE AND DISPOSE
- PANEL BOX; REMOVE AND DISPOSE
- METAL LOUVER

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GERMANTOWN, MD 20876

Project

DEMOLITION ELEVATIONS

Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
BSR/CEM	DSS	AS SHOWN

Professional Engineer Seal

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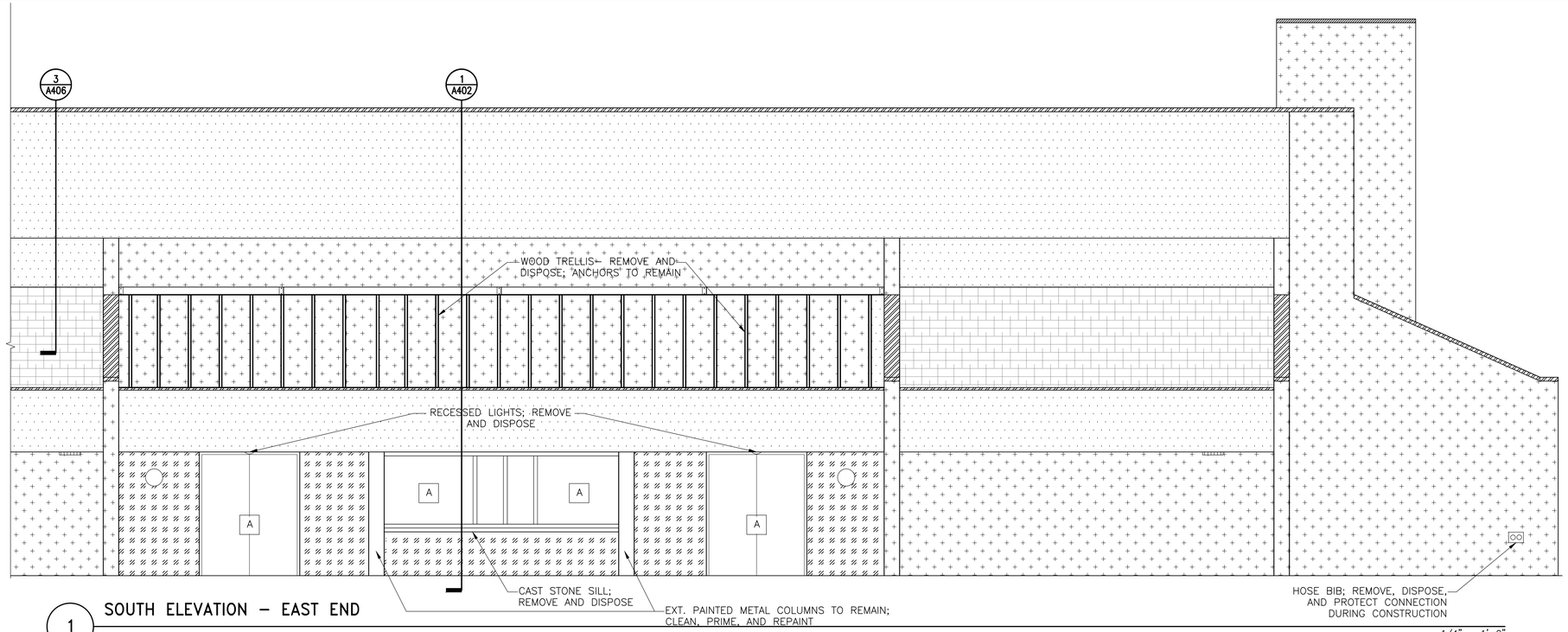
License No. 15704 Exp. Date: 6/1/17

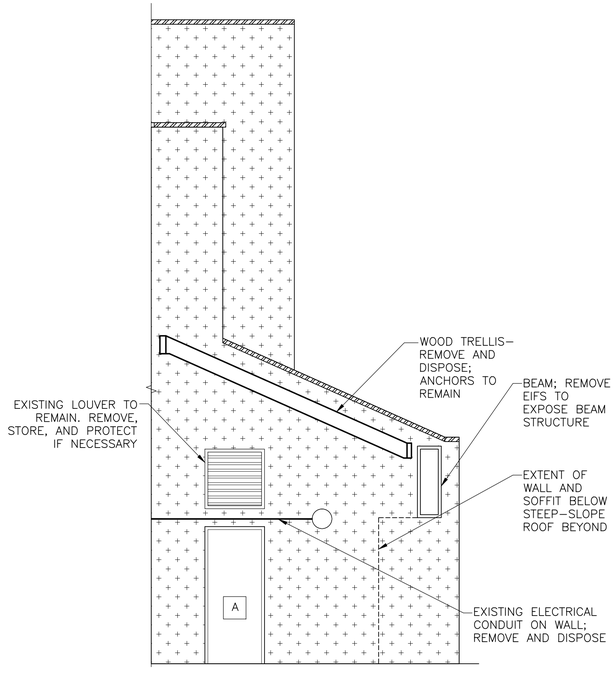
Drawing No.

AD203



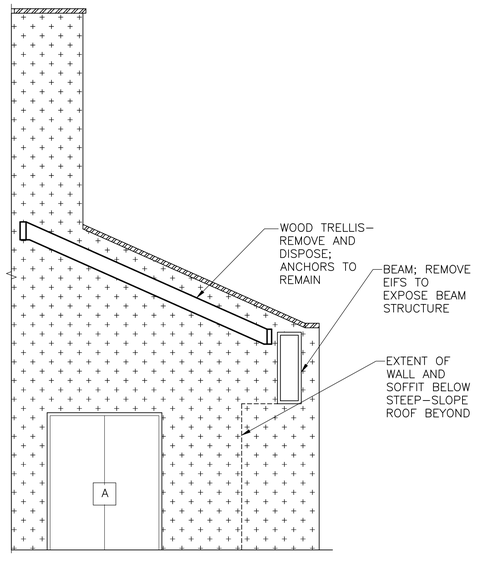
1 SOUTH ELEVATION – EAST END

1/4" = 1'–0"



2 PARTIAL ELEVATION AT EAST END OF GYMNASIUM

1/4" = 1'–0"



3 PARTIAL ELEVATION AT NORTH END OF GYMNASIUM

1/4" = 1'–0"

LEGEND

- DIRECT APPLIED STUCCO ON CMU BACKUP; TO REMAIN, REPAIR AS REQUIRED
- EIFS ASSEMBLY OVER SHEATHING AND CFMF BACKUP; REMOVE AND DISPOSE CLADDING AND CFMF
- EIFS ASSEMBLY OVER CMU BACKUP; REMOVE AND DISPOSE
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- A DOOR/WINDOW; REMOVE AND DISPOSE
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- RECESSED LIGHT; REMOVE AND DISPOSE
- TRELLIS ANCHORS TO REMAIN; ANCHORS ARE ALSO ATTACHED TO BACKSIDE OF EIFS CLAD BEAM (NOT SHOWN)
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- PANEL BOX; REMOVE AND DISPOSE
- METAL LOUVER

NOTE: VERIFY ALL TYPES, NUMBER AND LOCATION OF MEP FIXTURES ON THE ELEVATIONS

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1	01/22/16	Bid Set (County Response Set)	
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	08/28/15	100% Design Development	

PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION MONTGOMERY COLLEGE GERMANTOWN CAMPUS
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Project

DEMOLITION ELEVATIONS

Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
BSR/CEM	DSS	AS SHOWN

Drawing No.

AD202

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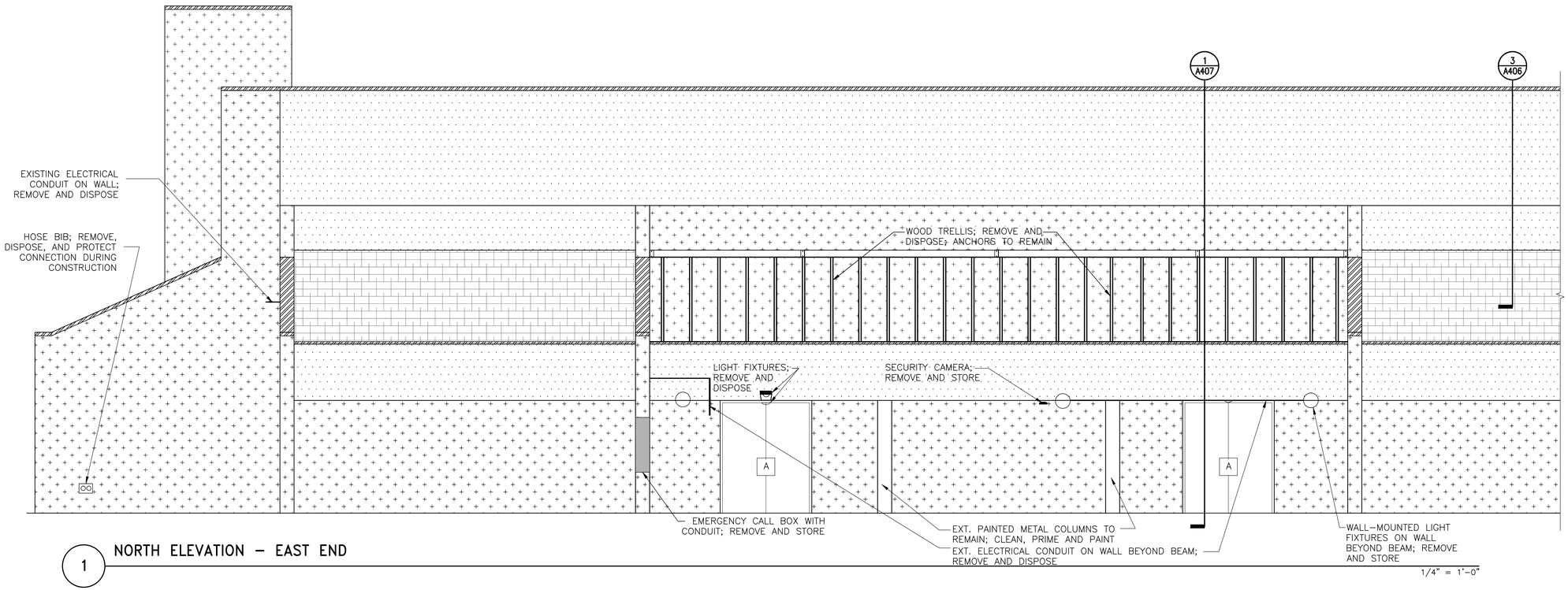
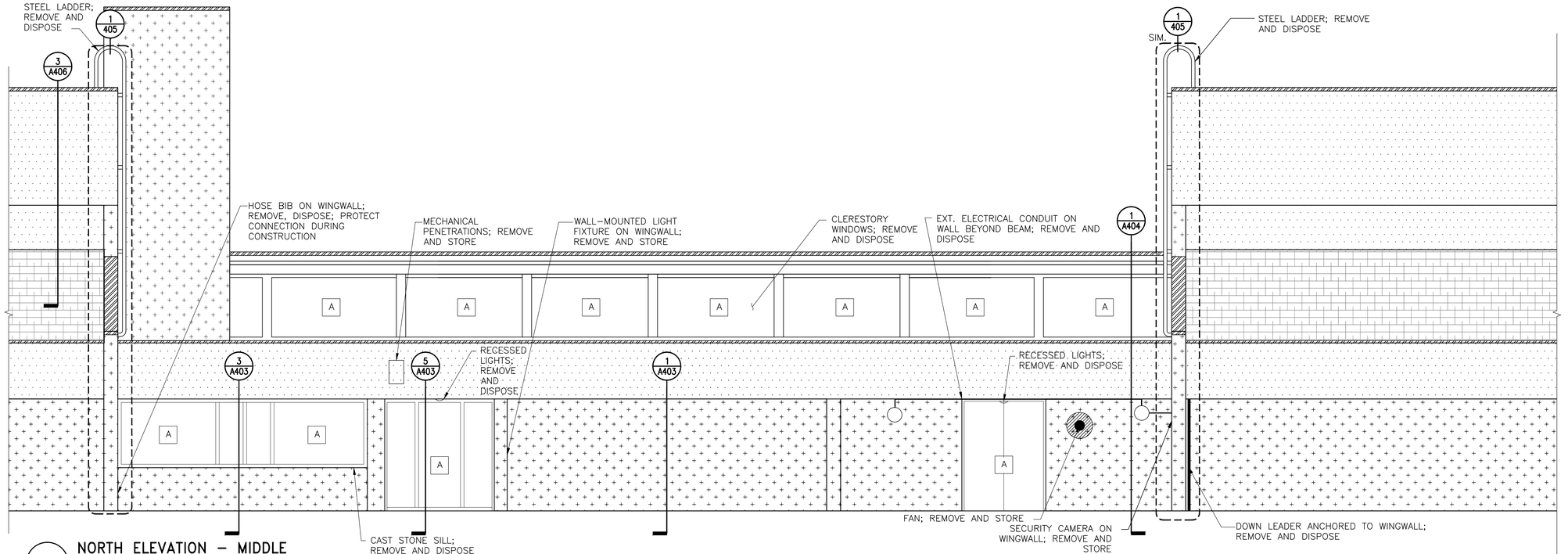
Seal



1 NORTH ELEVATION – EAST END

1/4" = 1'-0"



2 NORTH ELEVATION – MIDDLE

1/4" = 1'-0"

LEGEND

- DIRECT APPLIED STUCCO ON CMU BACKUP; TO REMAIN, REPAIR AS REQUIRED
- EIFS ASSEMBLY OVER SHEATHING AND GFMF BACKUP; REMOVE AND DISPOSE CLADDING AND GFMF
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NOTE: VERIFY ALL TYPES, NUMBER AND LOCATION OF MEP FIXTURES ON THE ELEVATIONS

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20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

Project

DEMOLITION ELEVATIONS

Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
BSR/CEM	DSS	AS SHOWN

Drawing No.

AD204

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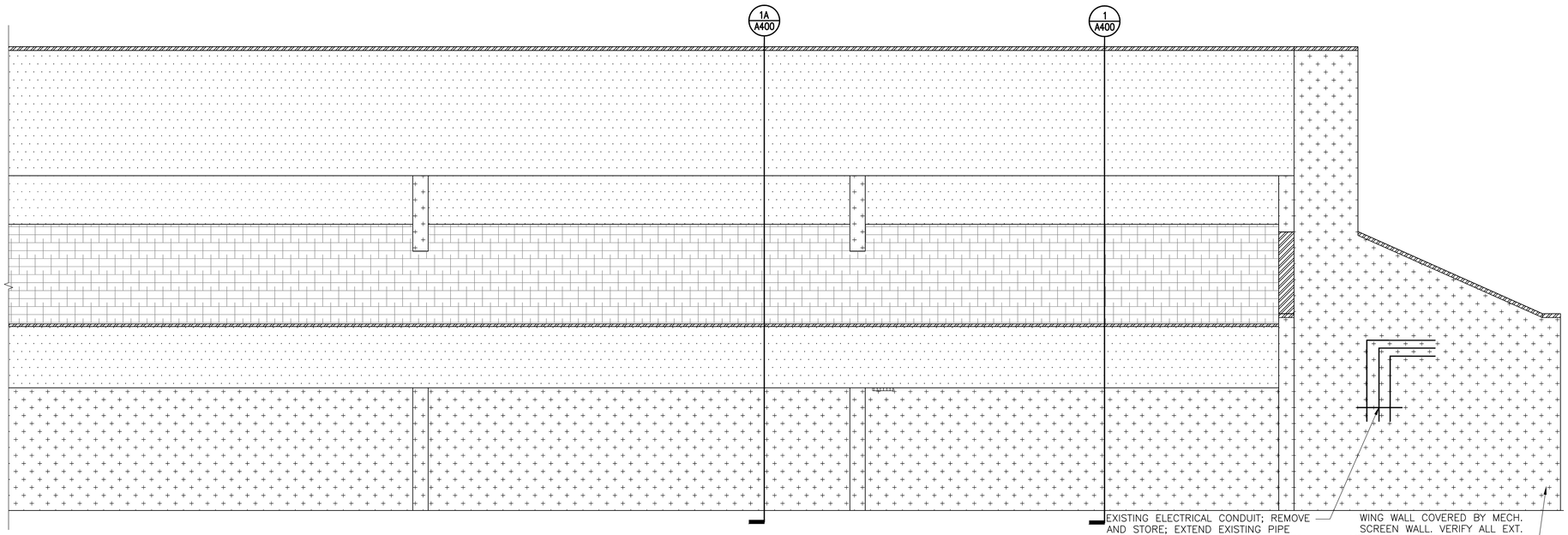
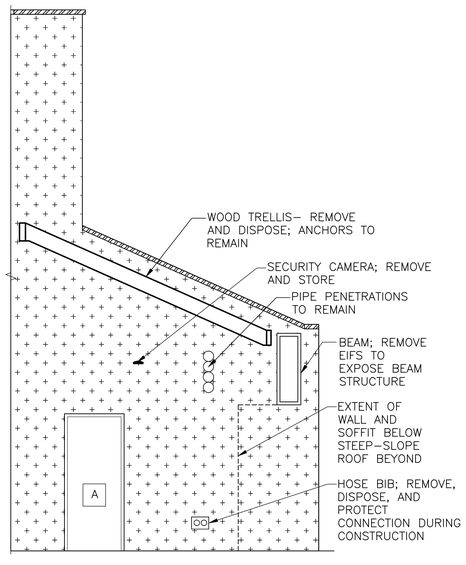
Seal



1 NORTH ELEVATION – WEST END

1/4" = 1'-0"



2 PARTIAL ELEVATION AT WEST END OF POOL

1/4" = 1'-0"

LEGEND

- DIRECT APPLIED STUCCO ON CMU BACKUP; TO REMAIN, REPAIR AS REQUIRED
- EIFS ASSEMBLY OVER SHEATHING AND CFMF BACKUP; REMOVE AND DISPOSE CLADDING AND CFMF
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20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

Project

DEMOLITION ELEVATIONS

Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
BSR/CEM	DSS	AS SHOWN

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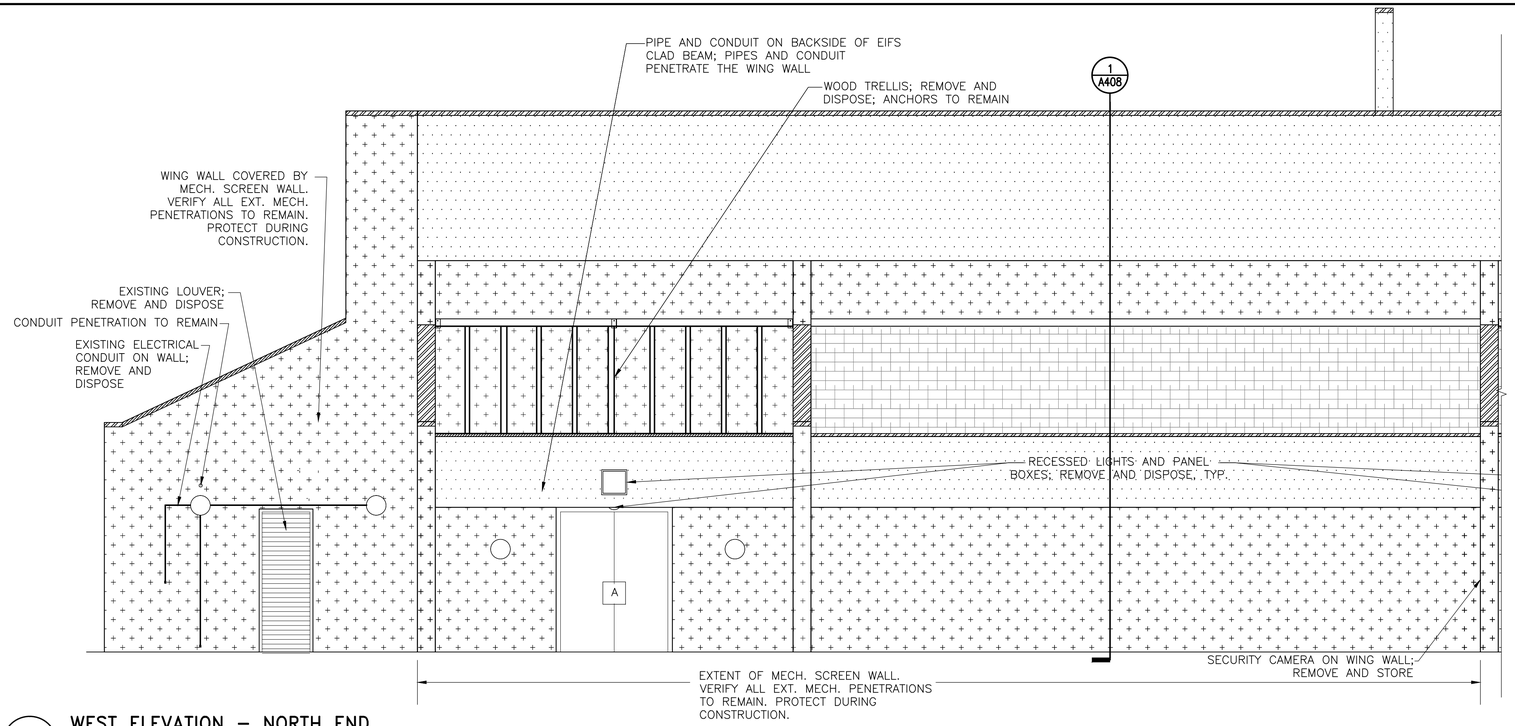
Seal

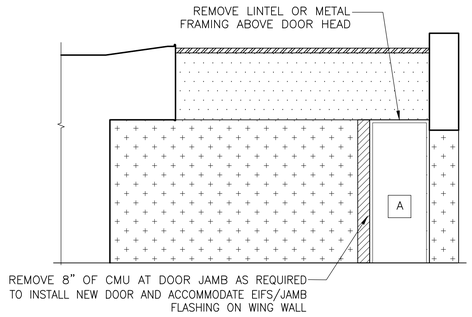
Drawing No.

AD205



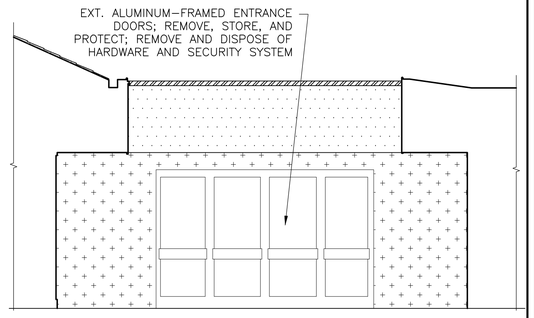
1 WEST ELEVATION – NORTH END

1/4" = 1'-0"



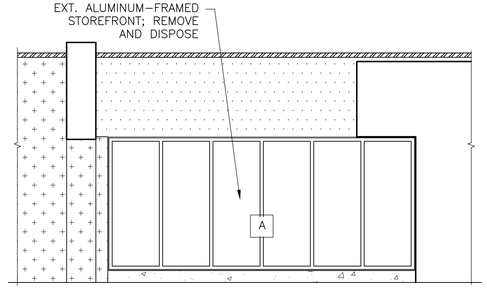
3 NORTH–FACING ENTRYWAY ELEVATION

1/4" = 1'-0"



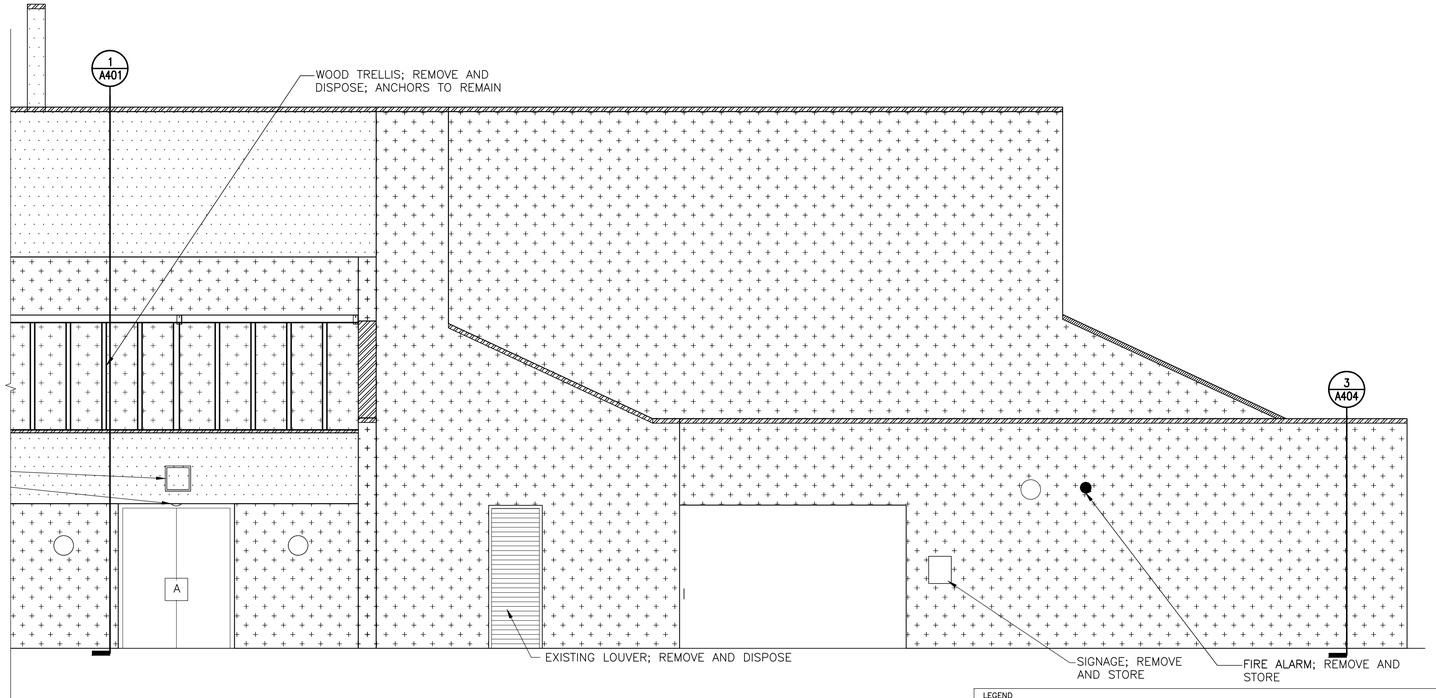
4 WEST–FACING ENTRYWAY ELEVATION

1/4" = 1'-0"



5 SOUTH–FACING ENTRYWAY ELEVATION

1/4" = 1'-0"



2 WEST ELEVATION – SOUTH END

1/4" = 1'-0"

LEGEND

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- METAL LOUVER

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Consultant	

BID SET

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PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION MONTGOMERY COLLEGE GERMANTOWN CAMPUS
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Project

DEMOLITION ELEVATIONS

Drawing Title

Project No.	Checked	Date
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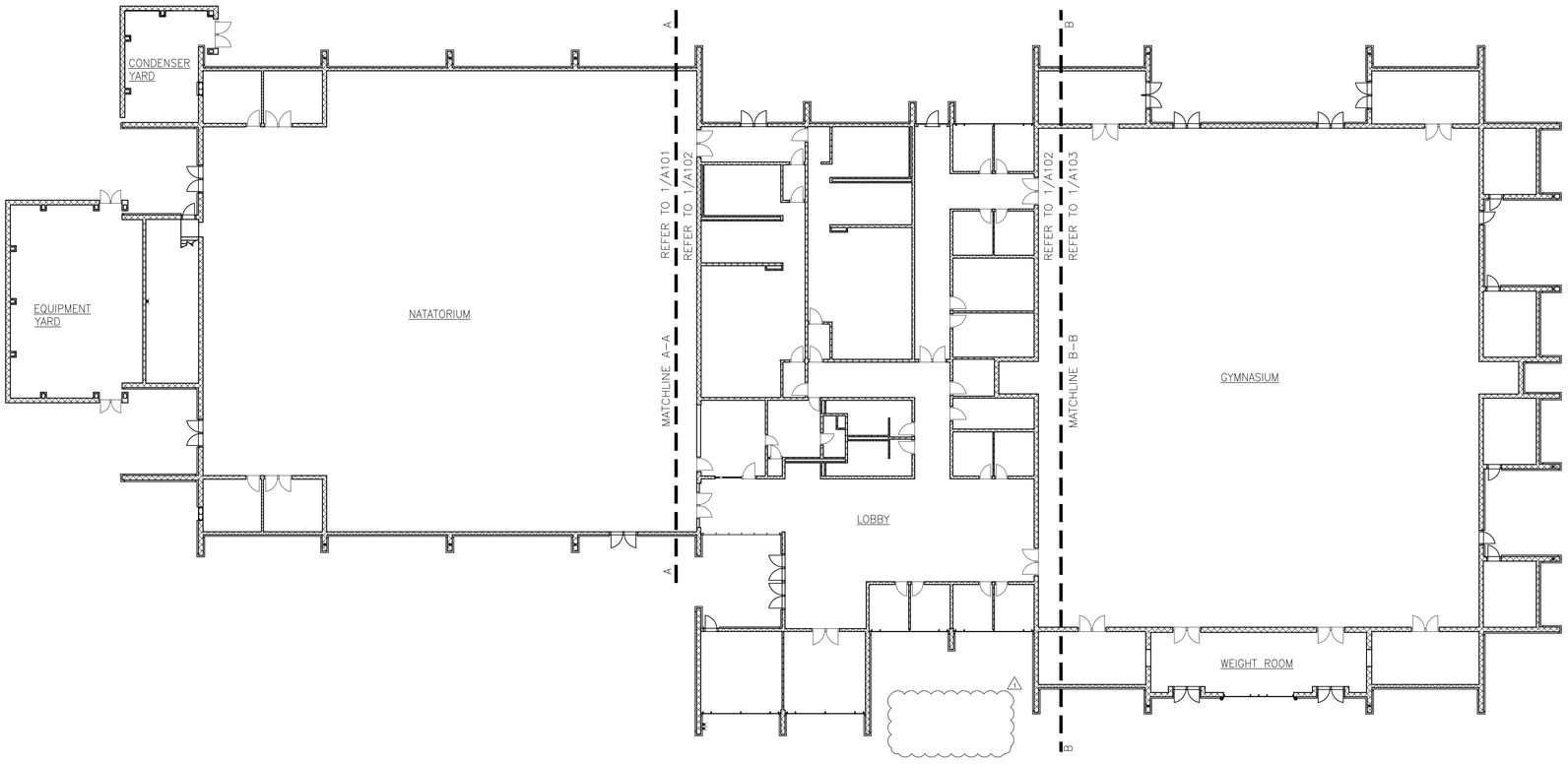
Drawn	Approved	Scale
BSR/CEM	DSS	AS SHOWN

STATE OF MARYLAND — PROFESSIONAL ENGINEER

Professional Engineer
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 31194 Exp. Date: 9/1/17
Seal

Drawing No.

AD206



1 FIRST FLOOR PLAN – OVERALL

NOTE: INTERIOR ASSEMBLIES NOT SHOWN FOR CLARITY

1/16" = 1'–0"

SIMPSON GUMPERTZ & HEGER

Engineering of Structures and Building Enclosures

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540.351.0553

Security Consultant — **GHD, Inc.**
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Chantilly, VA 20151
571.325.5000

Cost Estimating Consultant — **Forella Group, LLC.**
9495 Silver King Ct., Suite A
Fairfax, VA 22031
703.560.2200

Consultant

BID SET

No.	Date	Description	By
	08/28/15	100% Design Development	
	11/20/15	Pricing/Permit Set	
1	01/22/16	Bid Set (County Response Set)	

PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION
MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

Project

OVERALL FIRST FLOOR PLAN

Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
CEM/BSR	DSS	AS SHOWN

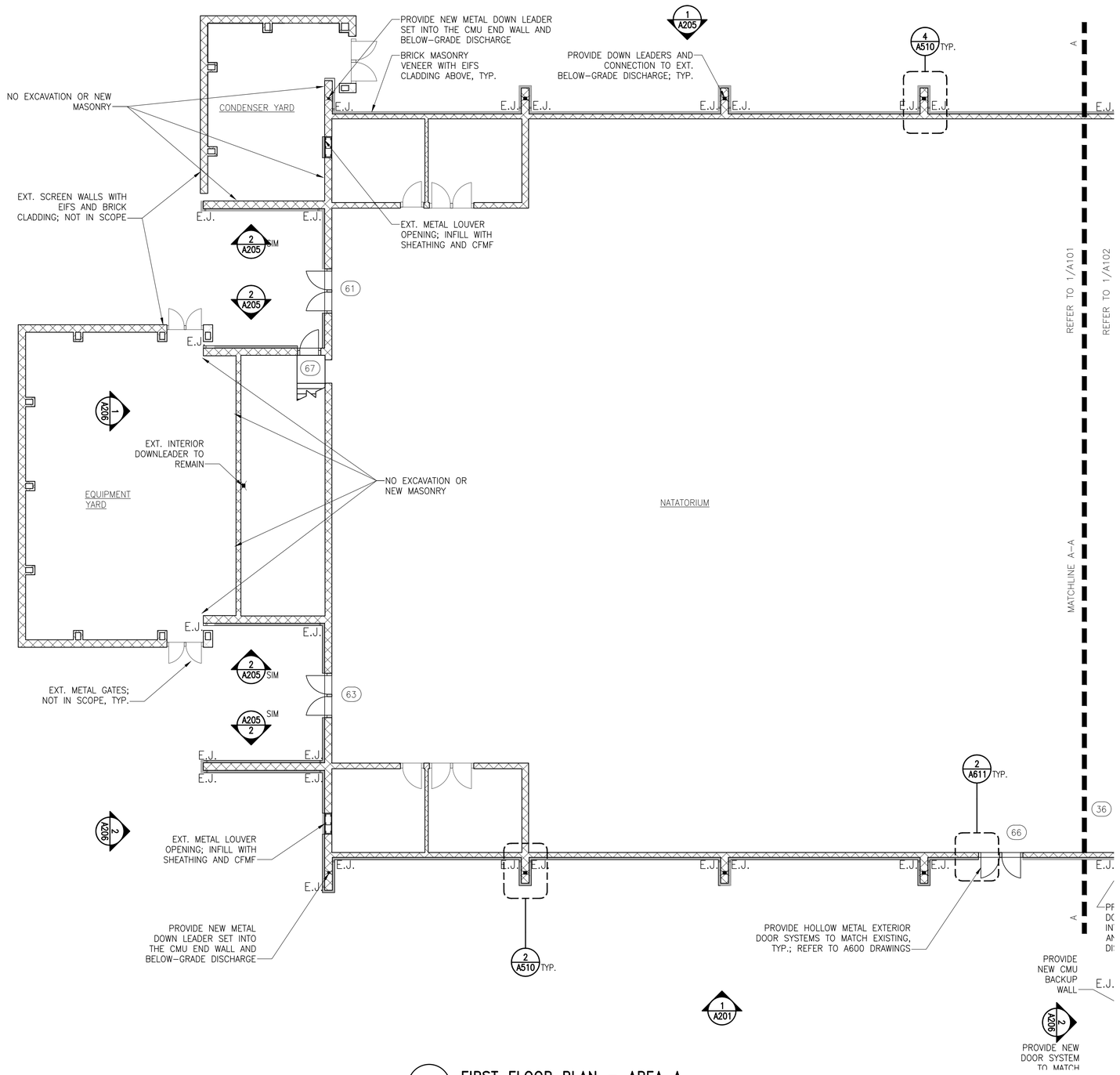
Professional Engineer's Seal

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 31424 Exp. Date: 6/6/17

Seal

Drawing No.

A100



1 FIRST FLOOR PLAN – AREA A

NOTE: INTERIOR ASSEMBLIES NOT SHOWN FOR CLARITY

1/8" = 1'-0"

GENERAL SCOPE OF WORK THIS DRAWING

Exterior Walls:

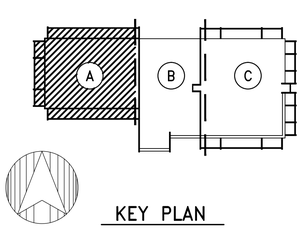
1. Install CMU curb over existing footing below grade.
2. Patch over any areas of delaminated or missing stucco cladding on the CMU walls with a cementitious parge coat to provide a smooth backup wall substrate. Repair all spalled or damaged CMU per structural drawings.
3. Replace the existing downleaders in the CMU wing walls with new downleaders and tie into the existing drainage assembly. Provide new downleaders in the CMU wing walls where shown on the drawings. Patch the CMU wing walls to provide a smooth substrate over the downleaders.
4. Provide new C.F.M.F. and furrings at the upper and lower soffits, and at vertical exterior wall areas where shown on the drawings. locate framing along the underside of the soffits to account for the increased exterior insulation thickness and maintain existing elevation of the soffit finish and window/door heads.
5. Provide new exterior gypsum sheathing over the upper and lower soffit framing and furrings and over framed exterior wall areas.
6. Extend existing electrical, plumbing, and mechanical fixtures and other miscellaneous components out of the wall to accommodate the increased exterior insulation thickness.
7. Provide self-adhered below-grade waterproofing membrane over the base of the existing or repaired exterior stucco on the CMU walls. extend the self-adhered membrane down the wall, over the new curb, and to the top of the existing footing.
8. Provide self-adhered air/vapor barrier membrane over the existing or repaired exterior stucco on the CMU walls. Integrate the air/vapor barrier membrane with the below-grade waterproofing and the roofing assembly to provide a continuous air/vapor barrier system.
9. Extend air/vapor barrier membrane past the soffit cladding and to the top of the CMU wall at all lower soffits below steep-sloped roofs. Provide metal lath and spray foam insulation between the top of the CMU wall and the underside of the steep slope roof sheathing, around the sloped beams, to form a continuous air barrier as shown on the drawings.
10. Wrap the air/vapor barrier membrane around lower soffits not below steep-sloped roofing and around the upper soffits, where shown on the drawings. Integrate the air/vapor barrier membrane with the adjacent self-adhered membrane on the vertical exterior walls and steep-slope roofing assemblies as shown on the drawings to maintain a continuous air, vapor, and water barrier.
11. Install perimeter flashings at all exterior door and window openings as shown on the drawings.
12. Provide new aluminum-framed exterior storefront and entrances, curtain walls, and thermally broken hollow metal doors. integrate the fenestration components with the self-adhered membrane on the exterior walls.
13. Openings at removed exterior doors serving as exit doors must be maintained for appropriate egress; replacement doors must have appropriate panic hardware in accordance with IBC Section 1010.1.9.9 and Section 1010.1.10, as shown on A600.
14. Provide masonry veneer anchors around the bottom perimeter of the first floor walls.
15. Install rigid insulation in the exterior wall cavity between and around the masonry veneer anchors.
16. Provide brick masonry with dedicated through-wall flashing, weeps, mortar net, end dams, and cast stone water table around the base of the exterior walls as shown on the drawings.
17. Provide EIFS assembly with metal lath and insulation thicknesses as shown in the drawings on the remaining exterior walls above the cast stone water table, around the upper and lower soffits, and other locations shown on the drawings. Detail EIFS assembly around exterior wall penetrations and other components.
18. Install new metal roof access ladders extending from the low roof up to the pool and gym roofs. Coordinate ladder dimensions with the new cladding thickness. Integrate ladder supports with the new self-adhered membrane as shown in the drawings; do not penetrate the new or existing roofing assemblies with the ladders.
19. Provide new treated wood-framed trellises. See structural drawings for new structural anchorage configuration.
20. Install new metal copings and gravel edge stops at top of all walls and roof perimeters where shown on the drawings; coordinate this work with the low-slope and steep-slope roofing installation.
21. Reinstall the exterior light fixtures, security cameras, fans, louvers and vents, fire alarm and fire department connection, access hatches, electrical conduits, and other miscellaneous components over the EIFS unless otherwise described in the drawings.
22. Openings at removed exterior doors serving as exit doors must be maintained for appropriate egress; replacement doors must have appropriate panic hardware in accordance with IBC Section 1010.1.9.9 and Section 1010.1.10, as shown on A600.

1

LEGEND

- ### – DOOR DESIGNATION
- – DOOR SWING DIRECTION
- CW-# – CURTAIN WALL DESIGNATION
- – CURTAIN WALL
- L-4 – LOUVER DESIGNATION
- – METAL LOUVER
- – EX. CMU WALLS
- – DOWN LEADER
- – APPROXIMATE EXTENT OF NEW CLADDING ASSEMBLIES
- E.J. – EXPANSION JOINT THROUGH BRICK CLADDING

NOTE: Electrical work shown on this drawing shall be approved by an electrical engineer licensed in the State of Maryland, and shall be performed by a qualified electrician licensed in the State of Maryland.



KEY PLAN

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703.560.2200

Consultant

BID SET

No.	Date	Description	By
	08/28/15	100% Design Development	
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1	01/22/16	Bid Set (County Response Set)	

PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

Project

PARTIAL FIRST FLOOR PLAN

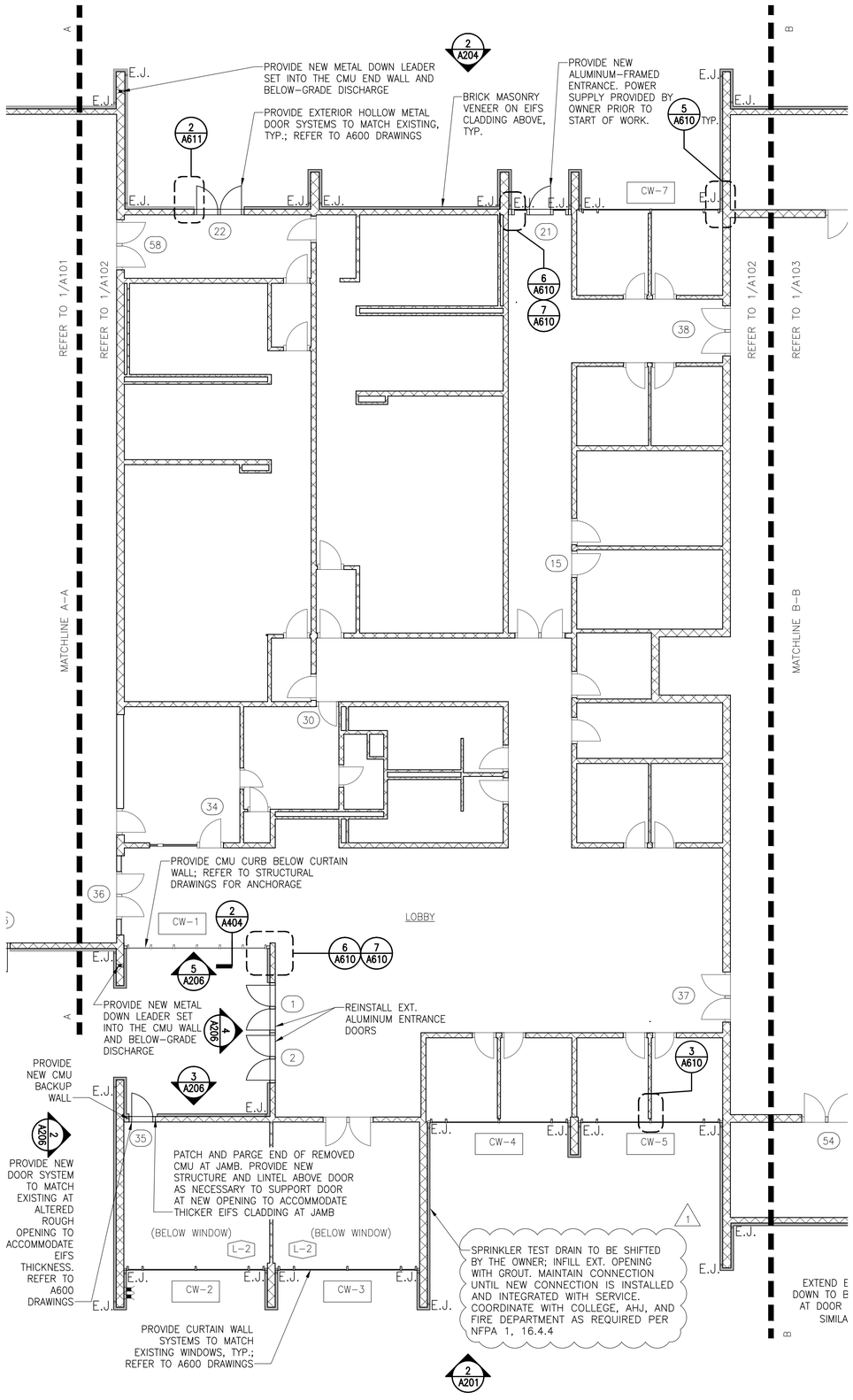
Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
BSR	DSS	AS NOTED

Professional Engineer Certification
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 34194 Exp. Date: 9/11/17
Seal

Drawing No.

A101



1 FIRST FLOOR PLAN – AREA B

NOTE: INTERIOR ASSEMBLIES NOT SHOWN FOR CLARITY

1/8" = 1'-0"

GENERAL SCOPE OF WORK THIS DRAWING

Exterior Walls:

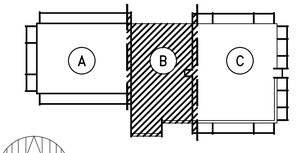
1. Install CMU curb over existing footing below grade.
2. Patch over any areas of delaminated or missing stucco cladding on the CMU walls with a cementitious parge coat to provide a smooth backup wall substrate. Repair all spalled or damaged CMU per structural drawings.
3. Replace the existing downleaders in the CMU wing walls with new downleaders and tie into the existing drainage assembly. Provide new downleaders in the CMU wing walls where shown on the drawings. Patch the CMU wing walls to provide a smooth substrate over the downleaders.
4. Provide new C.F.M.F. and furrings at the upper and lower soffits, and at vertical exterior wall areas where shown on the drawings. locate framing along the underside of the soffits to account for the increased exterior insulation thickness and maintain existing elevation of the soffit finish and window/door heads.
5. Provide new exterior gypsum sheathing over the upper and lower soffit framing and furrings and over framed exterior wall areas.
6. Extend existing electrical, plumbing, and mechanical fixtures and other miscellaneous components out of the wall to accommodate the increased exterior insulation thickness.
7. Provide self-adhered below-grade waterproofing membrane over the base of the existing or repaired exterior stucco on the CMU walls. extend the self-adhered membrane down the wall, over the new curb, and to the top of the existing footing.
8. Provide self-adhered air/vapor barrier membrane over the existing or repaired exterior stucco on the CMU walls. Integrate the air/vapor barrier membrane with the below-grade waterproofing and the roofing assembly to provide a continuous air/vapor barrier system.
9. Extend air/vapor barrier membrane past the soffit cladding and to the top of the CMU wall at all lower soffits below steep-sloped roofs. Provide metal lath and spray foam insulation between the top of the cmu wall and the underside of the steep slope roof sheathing, around the sloped beams, to form a continuous air barrier as shown on the drawings.
10. Wrap the air/vapor barrier membrane around lower soffits not below steep-sloped roofing and around the upper soffits, where shown on the drawings. Integrate the air/vapor barrier membrane with the adjacent self-adhered membrane on the vertical exterior walls and steep-slope roofing assemblies as shown on the drawings to maintain a continuous air, vapor, and water barrier.
11. Install perimeter flashings at all exterior door and window openings as shown on the drawings.
12. Provide new aluminum-framed exterior storefront and entrances, curtain walls, and thermally broken hollow metal doors. integrate the fenestration components with the self-adhered membrane on the exterior walls.
13. Openings at removed exterior doors serving as exit doors must be maintained for appropriate egress; replacement doors must have appropriate panic hardware in accordance with IBC Section 1010.1.9.9 and Section 1010.1.10, as shown on A600.
14. Provide masonry veneer anchors around the bottom perimeter of the first floor walls.
15. Install rigid insulation in the exterior wall cavity between and around the masonry veneer anchors.
16. Provide brick masonry with dedicated through-wall flashing, weeps, mortar net, end dams, and cast stone water table around the base of the exterior walls as shown on the drawings.
17. Provide EIFS assembly with metal lath and insulation thicknesses as shown in the drawings on the remaining exterior walls above the cast stone water table, around the upper and lower soffits, and other locations shown on the drawings. Detail EIFS assembly around exterior wall penetrations and other components.
18. Install new metal roof access ladders extending from the low roof up to the pool and gym roofs. Coordinate ladder dimensions with the new cladding thickness. Integrate ladder supports with the new self-adhered membrane as shown in the drawings; do not penetrate the new or existing roofing assemblies with the ladder.
19. Provide new treated wood-framed trellises. See structural drawings for new structural anchorage configuration.
20. Install new metal copings and gravel edge stops at top of all walls and roof perimeters where shown on the drawings; coordinate this work with the low-slope and steep-slope roofing installation.
21. Reinstall the exterior light fixtures, security cameras, fans, louvers and vents, fire alarm and fire department connection, access hatches, electrical conduits, and other miscellaneous components over the EIFS unless otherwise described in the drawings.
22. Openings at removed exterior doors serving as exit doors must be maintained for appropriate egress; replacement doors must have appropriate panic hardware in accordance with IBC Section 1010.1.9.9 and Section 1010.1.10, as shown on A600.

1

LEGEND

- ### – DOOR DESIGNATION
- – DOOR SWING DIRECTION
- CW-# – CURTAIN WALL DESIGNATION
- – CURTAIN WALL
- L-4 – LOUVER DESIGNATION
- – METAL LOUVER
- – EX. CMU WALLS
- – DOWN LEADER
- – APPROXIMATE EXTENT OF NEW CLADDING ASSEMBLIES
- E.J. – EXPANSION JOINT THROUGH BRICK CLADDING

NOTE: Electrical work shown on this drawing shall be approved by an electrical engineer licensed in the State of Maryland, and shall be performed by a qualified electrician licensed in the State of Maryland.



KEY PLAN

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Consultant

BID SET

No.	Date	Description	By
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	11/20/15	Pricing/Permit Set	
1	01/22/16	Bid Set County Response Set	

PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION
MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

Project

PARTIAL FIRST FLOOR PLAN

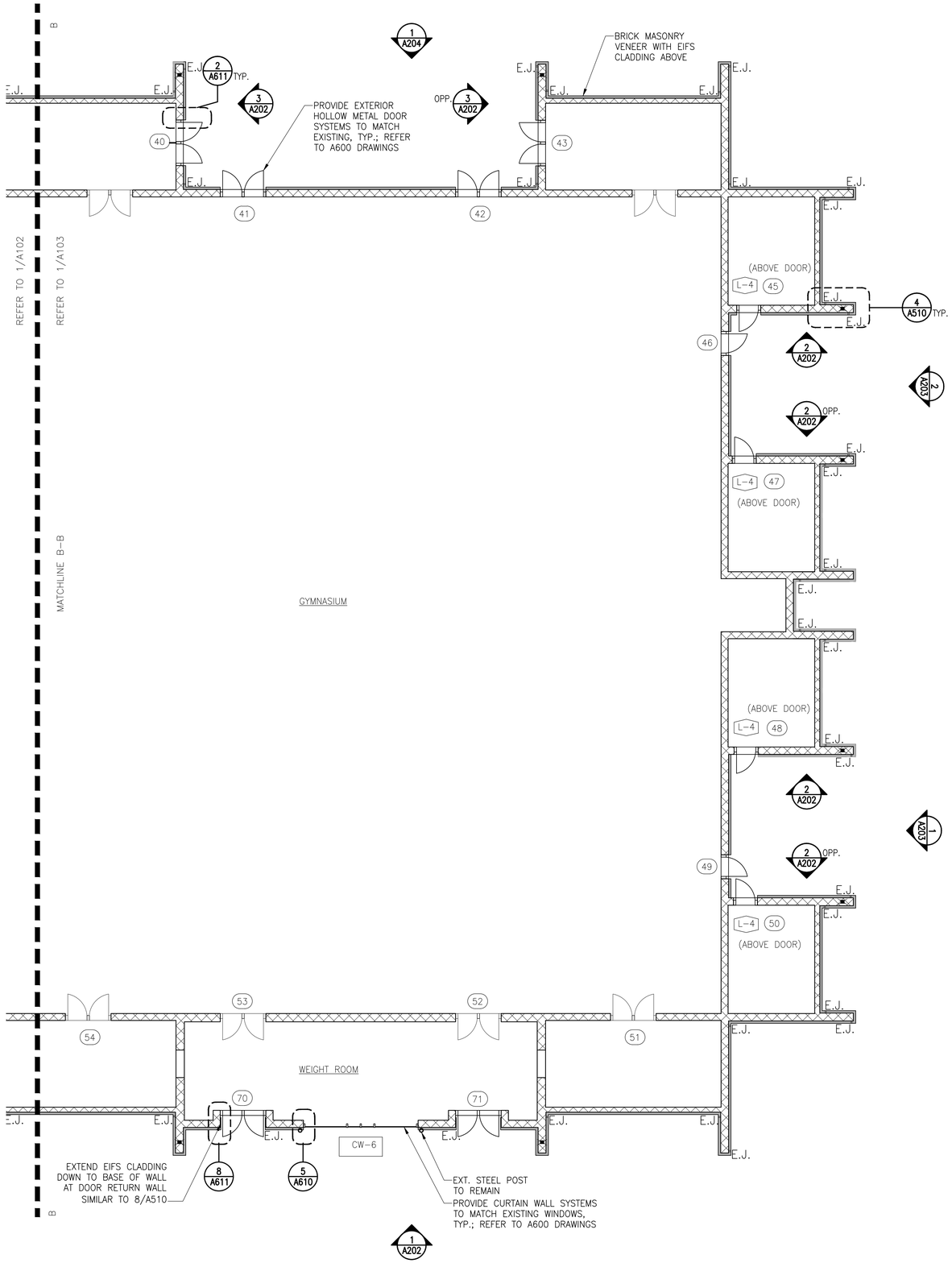
Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
BSR	DSS	AS NOTED

Professional Engineer
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 21194 Exp. Date: 9/1/17
Seal

Drawing No.

A102



1 FIRST FLOOR PLAN – AREA C

NOTE: INTERIOR ASSEMBLIES NOT SHOWN FOR CLARITY

1/8" = 1'-0"

GENERAL SCOPE OF WORK THIS DRAWING

Exterior Walls:

1. Install CMU curb over existing footing below grade.
2. Patch over any areas of delaminated or missing stucco cladding on the CMU walls with a cementitious parge coat to provide a smooth backup wall substrate. Repair all spalled or damaged CMU per structural drawings.
3. Replace the existing downleaders in the CMU wing walls with new downleaders and tie into the existing drainage assembly. Provide new downleaders in the CMU wing walls where shown on the drawings. Patch the CMU wing walls to provide a smooth substrate over the downleaders.
4. Provide new CFMF and furrings at the upper and lower soffits, and at vertical exterior wall areas where shown on the drawings. locate framing along the underside of the soffits to account for the increased exterior insulation thickness and maintain existing elevation of the soffit finish and window/door heads.
5. Provide new exterior gypsum sheathing over the upper and lower soffit framing and furrings and over framed exterior wall areas.
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11. Install perimeter flashings at all exterior door and window openings as shown on the drawings.
12. Provide new aluminum-framed exterior storefront and entrances, curtain walls, and thermally broken hollow metal doors. integrate the fenestration components with the self-adhered membrane on the exterior walls.
13. Openings at removed exterior doors serving as exit doors must be maintained for appropriate egress; replacement doors must have appropriate panic hardware in accordance with IBC Section 1010.1.9.9 and Section 1010.1.10, as shown on A600.
14. Provide masonry veneer anchors around the bottom perimeter of the first floor walls.
15. Install rigid insulation in the exterior wall cavity between and around the masonry veneer anchors.
16. Provide brick masonry with dedicated through-wall flashing, weeps, mortar net, end dams, and cast stone water table around the base of the exterior walls as shown on the drawings.
17. Provide EIFS assembly with metal lath and insulation thicknesses as shown in the drawings on the remaining exterior walls above the stone coping, around the upper and lower soffits, and other locations shown on the drawings. Detail EIFS assembly around exterior wall penetrations and other components.
18. Install new metal roof access ladders extending from the low roof up to the pool and gym roofs. Coordinate ladder dimensions with the new cladding thickness. Integrate ladder supports with the new self-adhered membrane as shown in the drawings; do not penetrate the new or existing roofing assemblies with the ladder.
19. Provide new treated wood-framed trellises. See structural drawings for new structural anchorage configuration.
20. Install new metal copings and gravel edge stops at top of all walls and roof perimeters where shown on the drawings; coordinate this work with the low-slope and steep-slope roofing installation.
21. Reinstall the exterior light fixtures, security cameras, fans, louvers and vents, fire alarm and fire department connection, access hatches, electrical conduits, and other miscellaneous components over the EIFS unless otherwise described in the drawings.
22. Openings at removed exterior doors serving as exit doors must be maintained for appropriate egress; replacement doors must have appropriate panic hardware in accordance with IBC Section 1010.1.9.9 and Section 1010.1.10, as shown on A600.

1

LEGEND

- ### – DOOR DESIGNATION
- – DOOR SWING DIRECTION
- CW-# – CURTAIN WALL DESIGNATION
- – CURTAIN WALL
- L-4 – LOUVER DESIGNATION
- – METAL LOUVER
- – EX. CMU WALLS
- – DOWN LEADER
- – APPROXIMATE EXTENT OF NEW CLADDING ASSEMBLIES
- E.J. – EXPANSION JOINT THROUGH BRICK CLADDING

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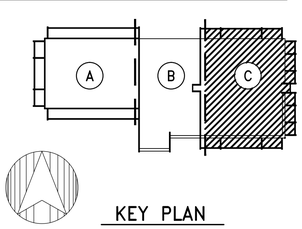

KEY PLAN

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Consultant

BID SET

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1	01/22/16	Bid Set (County Response Set)	

PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

Project

PARTIAL FIRST FLOOR PLAN

Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
BSR	DSS	AS NOTED

Drawing No.

A103

Professional Certification.
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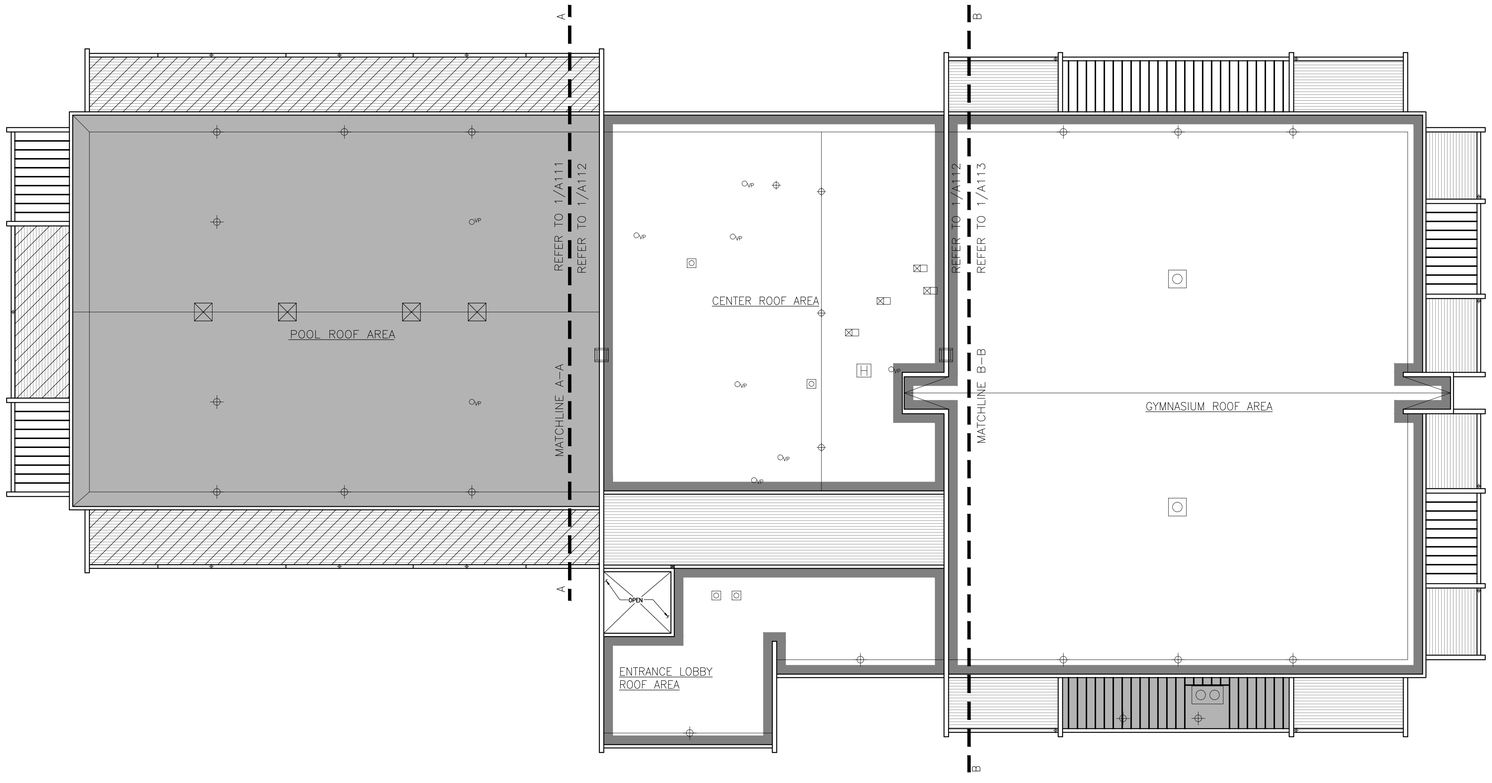
License No. 33194 Exp. Date: 9/11/17
Seal



1 ROOF PLAN – OVERALL

NOTE: INTERIOR ASSEMBLIES NOT SHOWN FOR CLARITY

1/16" = 1'–0"

PROJECT NORTH

LEGEND

- EXTENT OF NATATORIUM LOW–SLOPE ROOFING REPLACEMENT; REFER TO 1/A530
- EXTENT OF LOW–SLOPE ROOFING MEMBRANE AND GRAVEL STOP REPLACEMENT; REFER TO 6/A530
- EXTENT OF STEEP–SLOPE ROOFING REPLACEMENT; REFER TO A531
- EXTENT OF CFMF. BEAM REPLACEMENT AT STEEP–SLOPE ROOFING; ASSUME 20% FOR FULL BEAM REPLACEMENT
- EXTENT OF WOOD TRELLIS; REFER TO STRUCTURAL DRAWINGS

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Consultant

BID SET

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PHYSICAL EDUCATION BLDG
EXTERIOR RENOVATION
MONTGOMERY COLLEGE
GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

Project

OVERALL ROOF PLAN

Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
BSR	DSS	AS NOTED

Professional Engineer's Certification
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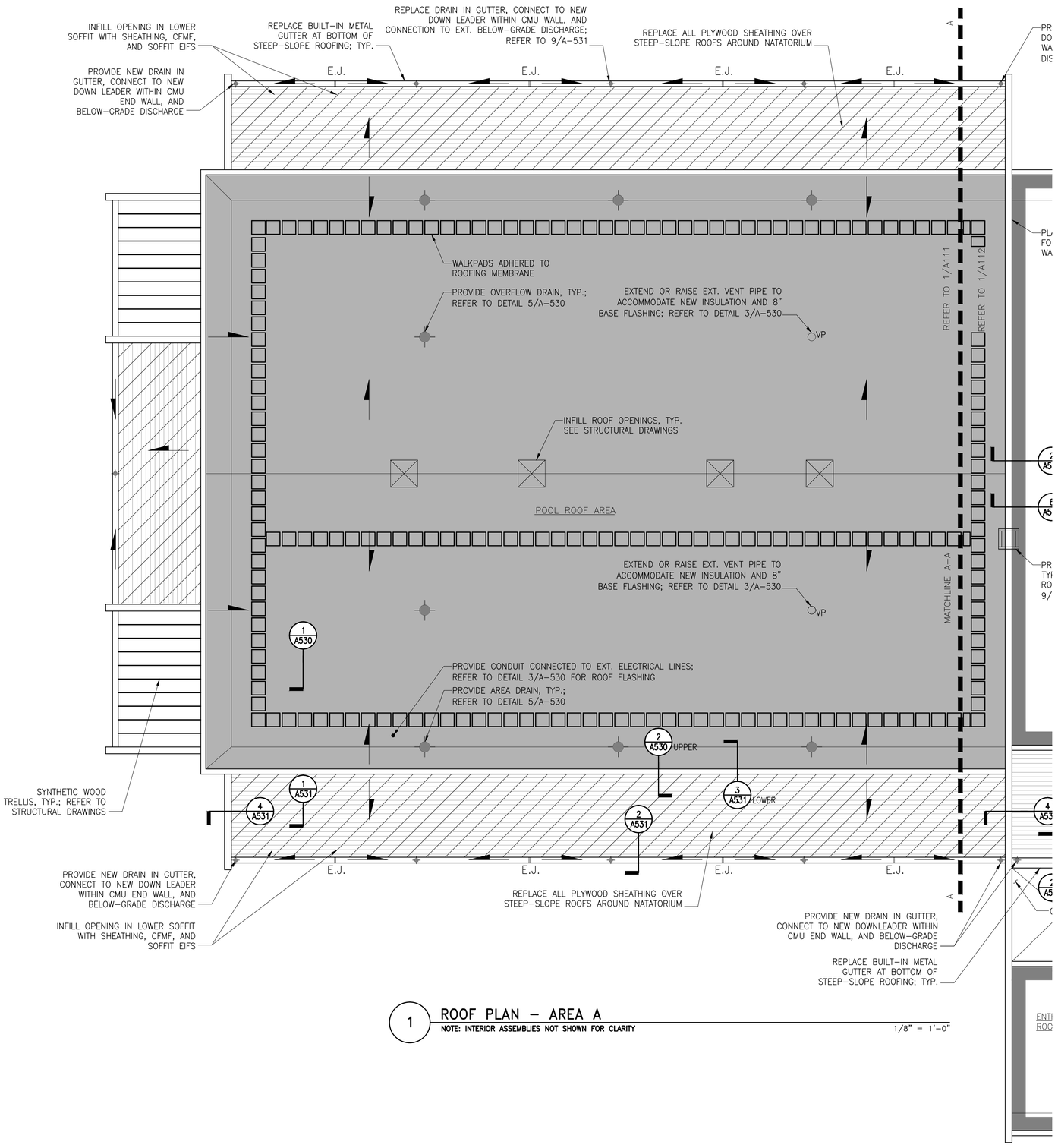
License No. 34194 Exp. Date: 6/1/17
Seal

Drawing No.

A110



1 ROOF PLAN – AREA A

NOTE: INTERIOR ASSEMBLIES NOT SHOWN FOR CLARITY

1/8" = 1'-0"

GENERAL SCOPE OF WORK SHOWN ON THIS DRAWING:

Note: Coordinate this work with the surrounding work, related trades, and miscellaneous mechanical, electrical, and plumbing work required in these documents.

Natatorium Low-Slope Roof:

1. Replace in-kind deteriorated portions of the existing wood decking. Assume 520 SF (Approximately 5%) of the Natatorium roof deck will require replacement.
2. Provide new blocking around the roof perimeter to support the new roofing assembly.
3. Provide new roofing framing and sheathing over existing HVAC curbs and openings; refer to Structural Drawings.
4. Install new roof drains with extension flange to elevate drain bowl with new roof surface.
5. Provide a self-adhered membrane vapor retarder continuously over the existing roof deck; extend up parapets, penetrations and other curbs. Integrate with typical roof drains, penetrations, and perimeter conditions to form an air seal.
6. Provide multiple layers of adhered rigid insulation; build up insulation thickness to obtain R-30 (6 in. thick). Provide additional tapered insulation where required with slope to drain toward internal drains (1/4 in. per ft min.).
7. Provide 1/2 in. thick cover board, set in adhesive.
8. Provide a 3 ply adhered modified bitumen roofing assembly with a granular cap sheet and base flashings. Integrate with typical roof drains, penetrations, and perimeter conditions to form continuous roofing system and water tight barrier.
9. Provide new metal coping and gravel stop around roof perimeter. Provide new metal counterflashings and penetration flashings.
10. Provide walkpads where shown on the drawings.

Steep-Slope Roofs

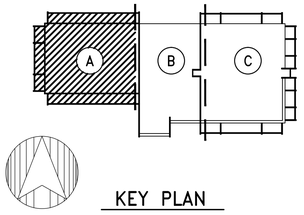
1. Replace plywood roof sheathing. Around the Natatorium, replace the bottom section of cold-formed metal framing (CFMF) over the lower soffit at all locations (see Structural Drawings). Assume additional ext. beams will be deteriorated and require complete replacement at 20% of the steep-sloped roof areas in addition to the lower soffits. See Structural Drawings for additional information.
2. Replace or provide new unfaced fiberglass batt insulation between the existing CFMF roof rafters (min R-19) where structural repairs are necessary.
3. Provide new self-adhered membrane underlayment over the plywood decking and in the built-in gutter. Integrate with the surrounding parapets, built-in gutter drain and downleader, backup wall air/vapor barrier on rising walls, and perimeter coping to form a watertight air and vapor barrier.
4. Install a structural insulated panel (SIP) with 4 in. minimum insulation laminated to 5/8 in. thick plywood sheathing (R-20 minimum). Mechanically attach SIP panels to the plywood decking over the CFMF beams. Install low-rise closed cell spray foam where required at edges, joints, and voids in the SIP panels to provide a continuous thermal barrier.
5. Provide self-adhered underlayment and one layer of 15# felt underlayment over the SIP panels; integrate self-adhered membrane and felt underlayment with new perimeter metal flashings at built-in gutter, rising walls, and copings to form a continuous watertight barrier.
6. Install new synthetic clay tiles with a minimum 3 in. head lap; provide roof tiles with width and exposure sized to match existing clay tiles in kind.

Proposed Schedule:

Natatorium Walls	– July 2016
Natatorium Roof (Low-Slope)	– August 2016
Natatorium Roof (Steep-Slope)	– July 2016
Windows	– August 2016
Classroom Walls Around Windows	– August 2016
Office Walls Around Windows	– August 2016
Gymnasium Walls	– October/November 2016
Gymnasium Roofs	– December 2016
Substantial Completion	– August 2017

LEGEND

- EXTENT OF NATATORIUM LOW-SLOPE ROOFING REPLACEMENT; REFER TO 1/A530
- EXTENT OF LOW-SLOPE ROOFING MEMBRANE AND GRAVEL STOP REPLACEMENT; REFER TO 6/A530
- EXTENT OF STEEP-SLOPE ROOFING REPLACEMENT; REFER TO A531
- EXTENT OF C.F.M.F. REPLACEMENT AT NATATORIUM STEEP-SLOPE ROOFING (ASSUME 20%)
- PROVIDE NEW ROOF DRAIN AND CONNECTION TO EXT. PLUMBING
- EXT. ROOF DRAIN
- EXT. ROOF HATCH
- VP – EXT. VENT PIPE
- EXT. HVAC EQUIPMENT AND CURB; PROTECT DURING CONSTRUCTION
- ANNOTATION DENOTING ROOF SLOPE
- E.J. – GUTTER EXPANSION JOINT; REFER TO 8/A530
- EXTENT OF WOOD TRELLIS; REFER TO STRUCTURAL DRAWINGS



KEY PLAN

SIMPSON GUMPERTZ & HEGER
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Washington, DC 20036
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Security Consultant	**GHD, Inc.** 14585 Avion Parkway, Suite 150 Chantilly, VA 20151 571.325.5000
Cost Estimating Consultant	**Forella Group, LLC.** 9495 Silver King Ct., Suite A Fairfax, VA 22031 703.560.2200
Consultant	

BID SET

No.	Date	Description	By
1	01/22/16	Bid Set (County Response Set)	
	11/20/15	Pricing/Permit Set	
	08/28/15	100% Design Development	

PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE GERMANTOWN, MD 20876

Project

PARTIAL ROOF PLAN

Drawing Title

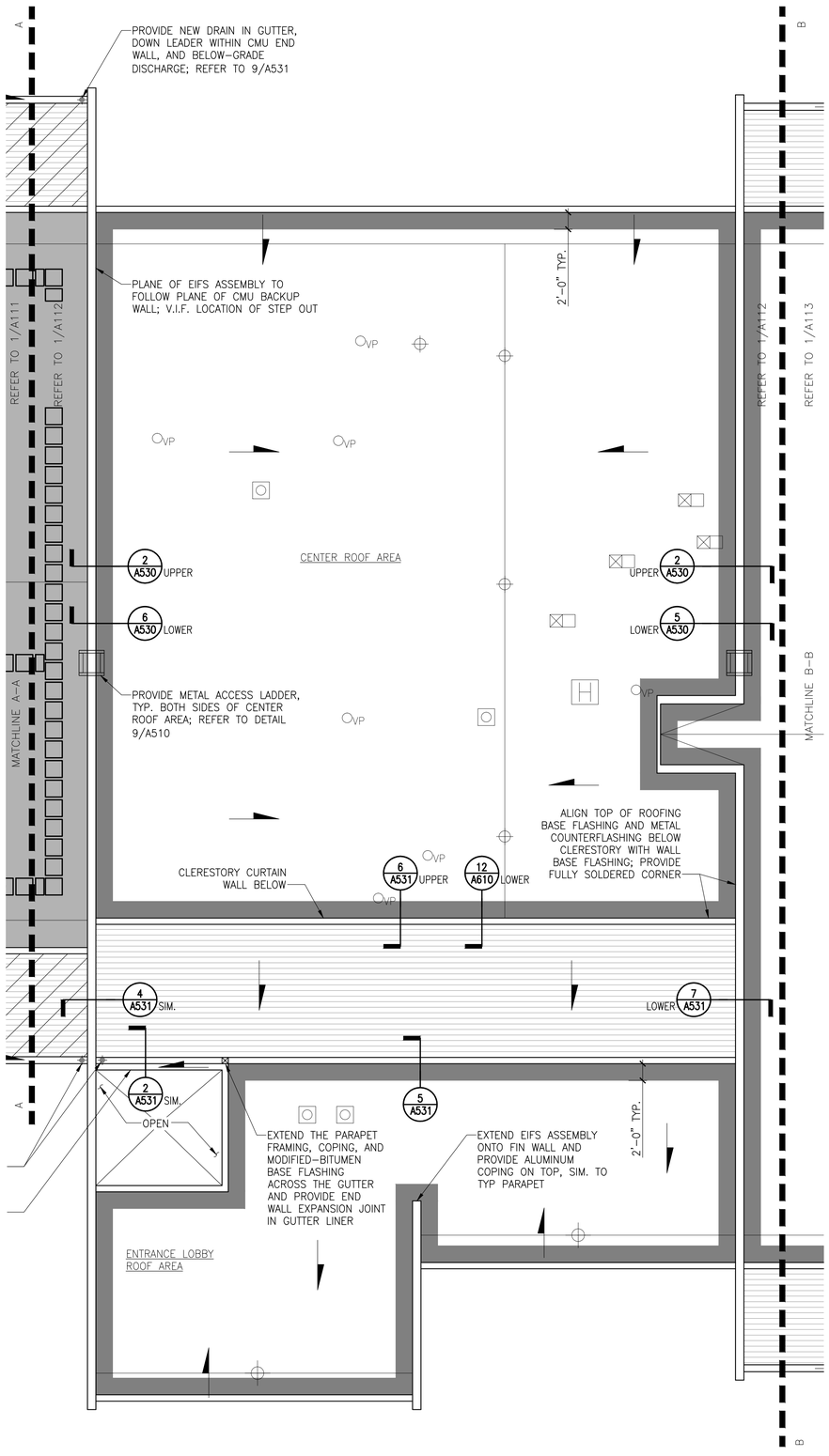
Project No. 150049.01	Checked PKF	Date 01/22/16
Drawn BSR	Approved DSS	Scale AS SHOWN

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 43184 Exp. Date: 6/1/17

Seal

Drawing No.

A111



1 ROOF PLAN – AREA B

NOTE: INTERIOR ASSEMBLIES NOT SHOWN FOR CLARITY

1/8" = 1'-0"

GENERAL SCOPE OF WORK SHOWN ON THIS DRAWING:

Note: Coordinate this work with the surrounding work, related trades, and miscellaneous mechanical, electrical, and plumbing work required in these documents.

Central and Gymnasium Roof Areas:

1. Provide new blocking around the roof perimeter to support the new roofing assembly, where necessary.
2. Provide a self-adhered membrane vapor retarder continuously over the existing roof deck; extend up parapets. Integrate with typical roof drains, penetrations, and perimeter conditions to form an air seal.
3. Provide multiple layers of rigid insulation with 1/2 in. thick cover board on top of insulation. Set all layers in adhesive; build up insulation and cover board thickness to match existing insulation thickness with slope to drain toward internal drains (1/4 in. per ft).
4. Provide a 3 ply adhered modified bitumen roofing assembly with a granular cap sheet and base flashings. Integrate with adjacent existing roofing assembly and perimeter conditions to form continuous roofing system and water tight barrier as shown on the Drawings.
5. Provide new metal coping and gravel stop around roof perimeter. Provide new metal counterflashings.
6. Provide new metal roof access ladders from the low roof up to the Natatorium and Gymnasium roofs. Anchor access ladders to the exterior wall; do not penetrate roofing membrane.

Steep-Slope Roofs

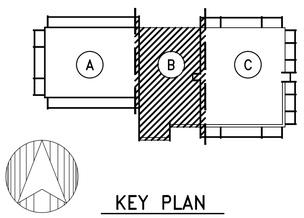
1. Replace plywood roof sheathing. Around the Natatorium, replace the bottom section of cold-formed metal framing (CFMF) over the lower soffit at all locations (see Structural Drawings). Assume additional ext. beams will be deteriorated and require complete replacement at 20% of the steep-sloped roof areas in addition to the lower soffits. See Structural Drawings for additional information.
2. Replace or provide new unfaced fiberglass batt insulation between the existing CFMF roof rafters (min R-19) where structural repairs are necessary.
3. Provide new self-adhered membrane underlayment over the plywood decking and in the built-in gutter. Integrate with the surrounding parapets, built-in gutter drain and downleader, backup wall air/vapor barrier on rising walls, and perimeter coping to form a watertight air and vapor barrier.
4. Install a structural insulated panel (SIP) with 4 in. minimum insulation laminated to 5/8 in. thick plywood sheathing (R-20 minimum). Mechanically attach SIP panels to the plywood decking over the CFMF beams. Install low-rise closed cell spray foam where required at edges, joints, and voids in the SIP panels to provide a continuous thermal barrier.
5. Provide self-adhered underlayment and one layer of 15# felt underlayment over the SIP panels; integrate self-adhered and felt underlayment with new perimeter metal flashings at built-in gutter, rising walls, and copings to form a continuous watertight barrier.
6. Install new synthetic clay tiles with a minimum 3 in. head lap; provide roof tiles with width and exposure sized to match existing clay tiles in kind.

Proposed Schedule:

Natatorium Walls	– July 2016
Natatorium Roof (Low-Slope)	– August 2016
Natatorium Roof (Steep-Slope)	– July 2016
Windows	– August 2016
Classroom Walls Around Windows	– August 2016
Office Walls Around Windows	– August 2016
Gymnasium Walls	– October/November 2016
Gymnasium Roofs	– December 2016
Substantial Completion	– August 2017

LEGEND

- EXTENT OF NATATORIUM LOW-SLOPE ROOFING REPLACEMENT; REFER TO 1/A530
- EXTENT OF LOW-SLOPE ROOFING MEMBRANE AND GRAVEL STOP REPLACEMENT; REFER TO 6/A530
- EXTENT OF STEEP-SLOPE ROOFING REPLACEMENT; REFER TO A531
- EXTENT OF C.F.M.F. REPLACEMENT AT NATATORIUM STEEP-SLOPE ROOFING (ASSUME 20%)
- PROVIDE NEW ROOF DRAIN AND CONNECTION TO EXT. PLUMBING
- EXT. ROOF DRAIN
- EXT. ROOF HATCH
- VP - EXT. VENT PIPE
- EXT. HVAC EQUIPMENT AND CURB; PROTECT DURING CONSTRUCTION
- ANNOTATION DENOTING ROOF SLOPE
- E.J. - GUTTER EXPANSION JOINT; REFER TO 8/A530
- EXTENT OF WOOD TRELLIS; REFER TO STRUCTURAL DRAWINGS



KEY PLAN

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703.560.2200

Consultant

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	08/28/15	100% Design Development	

PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION
MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

Project

PARTIAL ROOF PLAN

Drawing Title

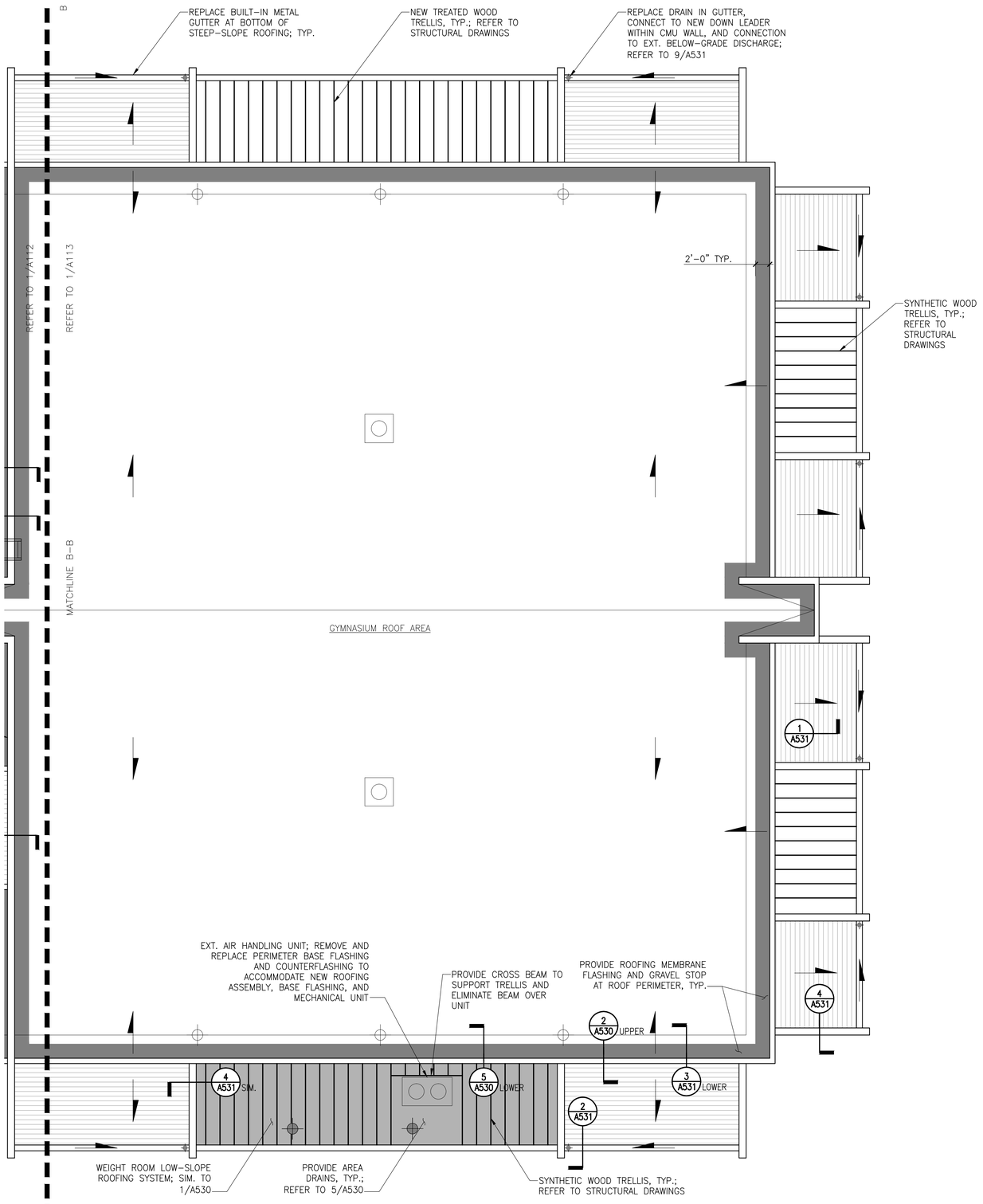
Project No. 150049.01	Checked PKF	Date 01/22/16
Drawn BSR	Approved DSS	Scale AS SHOWN

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 33184 Exp. Date: 9/4/17

Seal

Drawing No.

A112



1 ROOF PLAN – AREA C

NOTE: INTERIOR ASSEMBLIES NOT SHOWN FOR CLARITY

1/8" = 1'-0"

GENERAL SCOPE OF WORK SHOWN ON THIS DRAWING:

Note: Coordinate this work with the surrounding work, related trades, and miscellaneous mechanical, electrical, and plumbing work required in these documents.

Central and Gymnasium Roof Areas:
1. Provide new blocking around the roof perimeter to support the new roofing assembly, where necessary.
2. Provide a self-adhered membrane vapor retarder continuously over the existing roof deck; extend up parapets. Integrate with typical roof drains, penetrations, and perimeter conditions to form an air seal.
3. Provide multiple layers of rigid insulation with 1/2 in. thick cover board on top of insulation. Set all layers in adhesive; build up insulation and cover board thickness to match existing insulation thickness with slope to drain toward internal drains (1/4 in. per ft).
4. Provide a 3 ply adhered modified bitumen roofing assembly with a granular cap sheet and base flashings. Integrate with adjacent existing roofing assembly and perimeter conditions to form continuous roofing system and water tight barrier as shown on the Drawings.
5. Provide new metal coping and gravel stop around roof perimeter. Provide new metal counterflashings.
6. Provide new metal roof access ladders from the low roof up to the Natatorium and Gymnasium roofs. Anchor access ladders to the exterior wall; do not penetrate roofing membrane.

Weight Room Roof:
1. Replace in-kind deteriorated portions of the existing decking. Assume 50 SF of the Weight Room roof deck will require replacement.
2. Provide new blocking around the roof perimeter to support the new roofing assembly.
3. Install new roof drains with extension flange to elevate drain bowl with new roof surface.
4. Provide a self-adhered membrane vapor retarder continuously over the existing roof deck; extend up parapets, penetrations and other curbs. Integrate with typical roof drains, penetrations, and perimeter conditions to form an air seal.
5. Provide multiple layers of adhered rigid insulation; build up insulation thickness to obtain R-30 (6 in. thick). Provide additional tapered insulation where required with slope to drain toward internal drains (1/4 in. per ft min.).
6. Provide 1/2 in. thick cover board, set in adhesive.
7. Provide a 3 ply adhered modified bitumen roofing assembly with a granular cap sheet and base flashings. Integrate with typical roof drains, penetrations, and perimeter conditions to form continuous roofing system and water tight barrier.
8. Provide new metal coping and gravel stop around roof perimeter. Provide new metal counterflashings and penetration flashings.
9. Existing HVAC equipment and curb to remain in place; remove the existing metal counterflashing to accommodate new membrane base flashing. Provide new metal counterflashing over membrane base flashing.

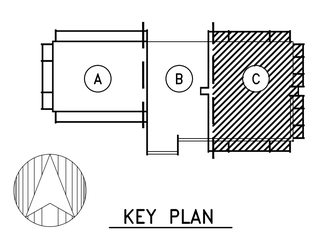
Steep-Slope Roofs
1. Replace plywood roof sheathing. Around the Natatorium, replace the bottom section of cold-formed metal framing (CFMF) over the lower soffit at all locations (see Structural Drawings). Assume additional ext. beams will be deteriorated and require complete replacement at 20% of the steep-sloped roof areas in addition to the lower soffits. See Structural Drawings for additional information.
2. Replace or provide new unfaced fiberglass batt insulation between the existing CFMF roof rafters (min R-19) where structural repairs are necessary.
3. Provide new self-adhered membrane underlayment over the plywood decking and in the built-in gutter. Integrate with the surrounding parapets, built-in gutter drain and downleader, backup wall air/vapor barrier on rising walls, and perimeter coping to form a watertight air and vapor barrier.
4. Install a structural insulated panel (SIP) with 4 in. minimum insulation laminated to 5/8 in. thick plywood sheathing (R-20 minimum). Mechanically attach SIP panels to the plywood decking over the CFMF beams. Install low-rise closed cell spray foam where required at edges, joints, and voids in the SIP panels to provide a continuous thermal barrier.
5. Provide self-adhered underlayment and one layer of 15# felt underlayment over the SIP panels; integrate self-adhered and felt underlayment with new perimeter metal flashings at built-in gutter, rising walls, and copings to form a continuous watertight barrier.
6. Install new synthetic clay tiles with a minimum 3 in. head lap; provide roof tiles with width and exposure sized to match existing clay tiles in kind.

Proposed Schedule:

Natatorium Walls	– July 2016
Natatorium Roof (Low-Slope)	– August 2016
Natatorium Roof (Steep-Slope)	– July 2016
Windows	– August 2016
Classroom Walls Around Windows	– August 2016
Office Walls Around Windows	– August 2016
Gymnasium Walls	– October/November 2016
Gymnasium Roofs	– December 2016
Substantial Completion	– August 2017

LEGEND

- EXTENT OF NATATORIUM LOW-SLOPE ROOFING REPLACEMENT; REFER TO 1/A530
- EXTENT OF LOW-SLOPE ROOFING MEMBRANE AND GRAVEL STOP REPLACEMENT; REFER TO 6/A530
- EXTENT OF STEEP-SLOPE ROOFING REPLACEMENT; REFER TO A531
- EXTENT OF C.F.M.F. REPLACEMENT AT NATATORIUM STEEP-SLOPE ROOFING (ASSUME 20%)
- PROVIDE NEW ROOF DRAIN AND CONNECTION TO EXT. PLUMBING
- EXT. ROOF DRAIN
- EXT. ROOF HATCH
- VP – EXT. VENT PIPE
- EXT. HVAC EQUIPMENT AND CURB; PROTECT DURING CONSTRUCTION
- ANNOTATION DENOTING ROOF SLOPE
- E.J. – GUTTER EXPANSION JOINT; REFER TO 8/A530
- EXTENT OF WOOD TRELLIS; REFER TO STRUCTURAL DRAWINGS



KEY PLAN

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Consultant

BID SET

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1	01/22/16	Bid Set County Response Set	
	11/20/15	Pricing/Permit Set	
	08/28/15	100% Design Development	

PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION
MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE GERMANTOWN, MD 20876

Project

PARTIAL ROOF PLAN

Drawing Title

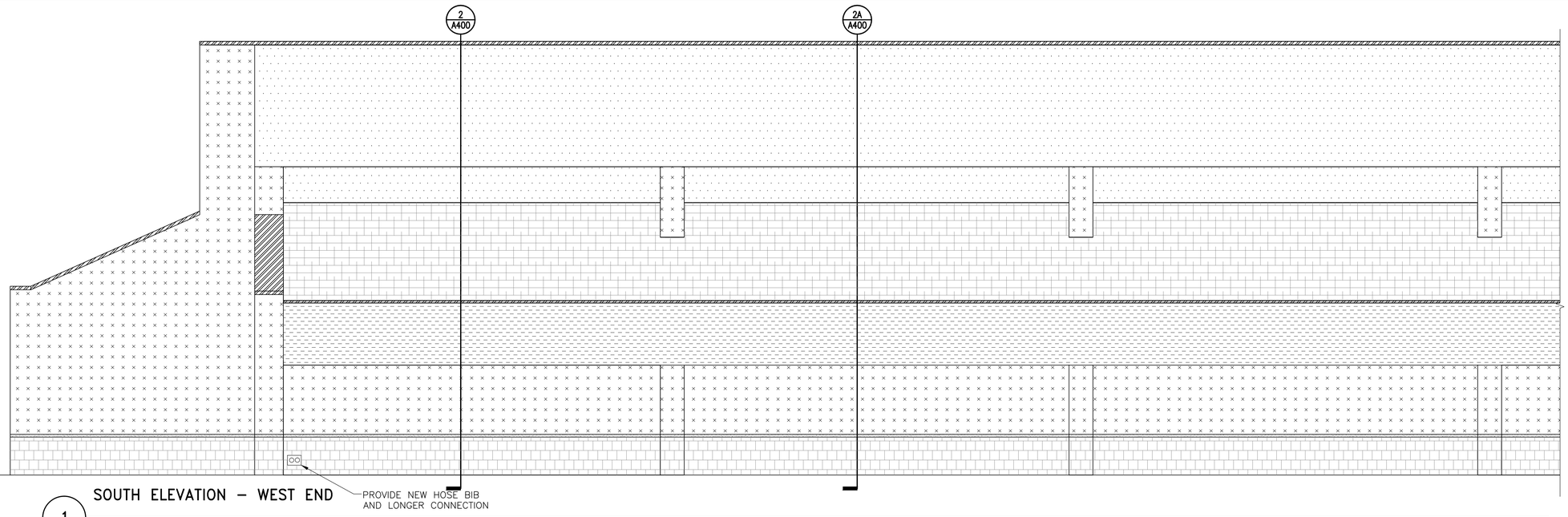
Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
BSR	DSS	AS SHOWN

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 33184 Exp. Date: 9/4/17

Seal

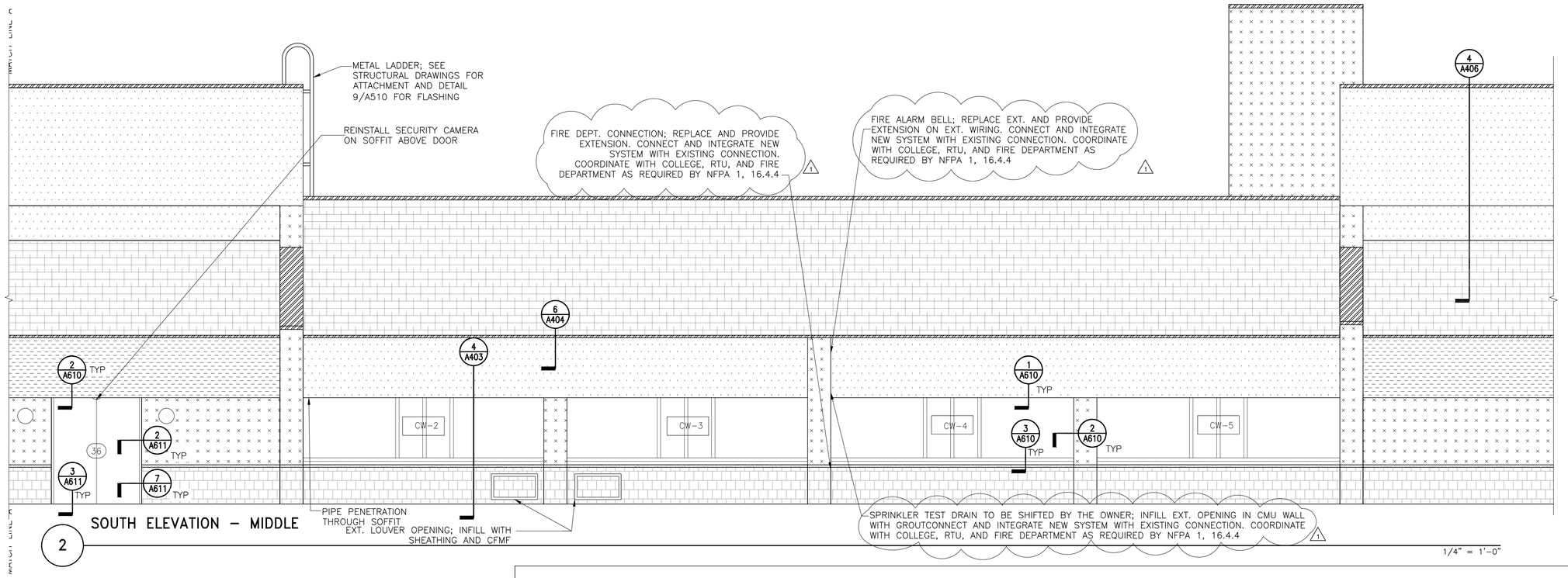
Drawing No.

A113



1 SOUTH ELEVATION – WEST END

1/4" = 1'-0"



2 SOUTH ELEVATION – MIDDLE

1/4" = 1'-0"

NOTE: Electrical work shown on this drawing shall be approved by an electrical engineer licensed in the State of Maryland, and shall be performed by a qualified electrician licensed in the State of Maryland.

LEGEND:

- SOFFIT EIFS ASSEMBLY OVER NEW CFMF
- EIFS ASSEMBLY OVER NEW SHEATHING AND CFMF BACKUP
- EIFS ASSEMBLY OVER CMU BACKUP
- BRICK MASONRY
- CAST STONE BAND AT BRICK TO EIFS TRANSITION
- METAL GRAVEL STOP OR COPING
- SYNTHETIC CLAY TILE ROOF
- EXT. WOOD TRELLIS ANCHORS (ANCHORS ARE ALSO ATTACHED TO BACKSIDE OF EIFS CLAD BEAM)
- HOSE BIB; REPLACE AND PROVIDE LONGER CONNECTION
- VENT ON UNDERSIDE OF SOFFIT; REINSTALL OR REPLACE
- SCONCE; REINSTALL OR REPLACE
- METAL LOUVER

NOTE: VERIFY ALL TYPES, NUMBER AND LOCATION OF MEP FIXTURES ON THE ELEVATIONS

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PHYSICAL EDUCATION BLDG
EXTERIOR RENOVATION
MONTGOMERY COLLEGE
GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

Project

ELEVATIONS

Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
BSR/CEM	DSS	AS SHOWN

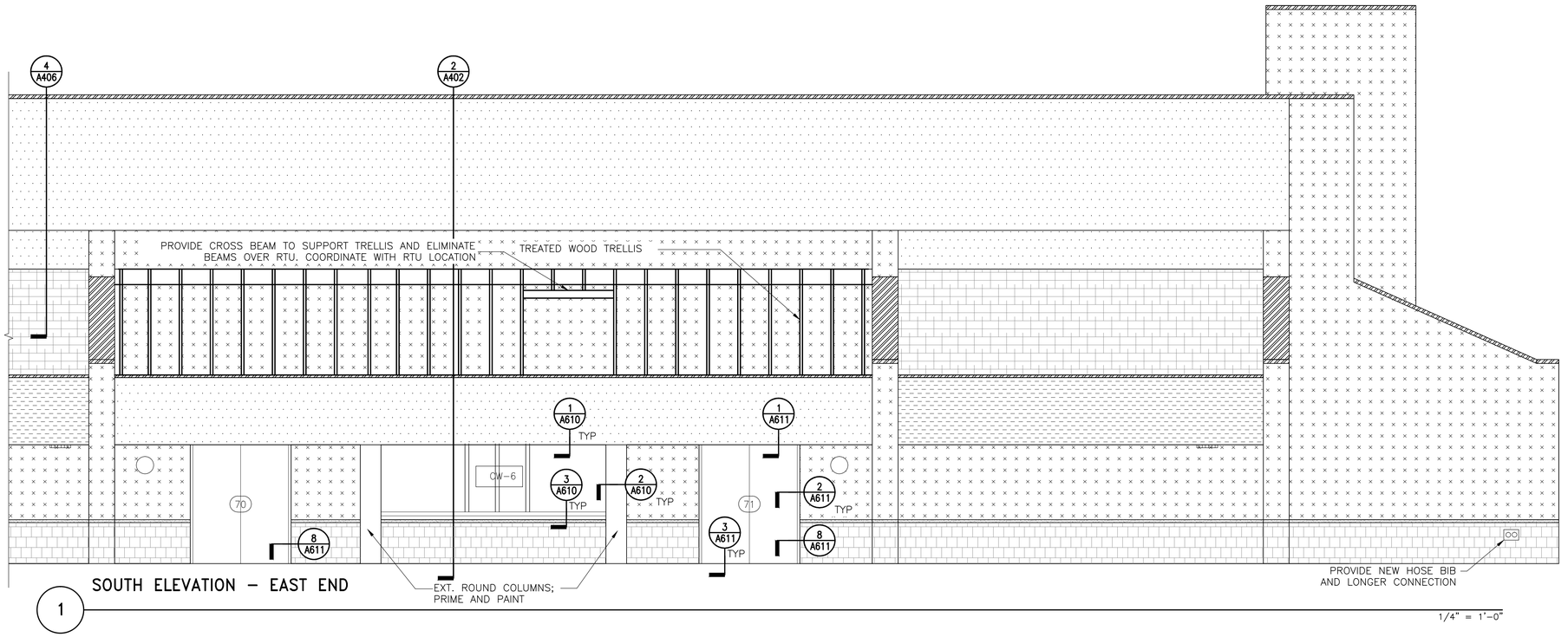
STATE OF MARYLAND — PAUL K. FRANCIS — 13184 — REGISTERED PROFESSIONAL ENGINEER

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 13184 Exp. Date: 6/6/17

Seal

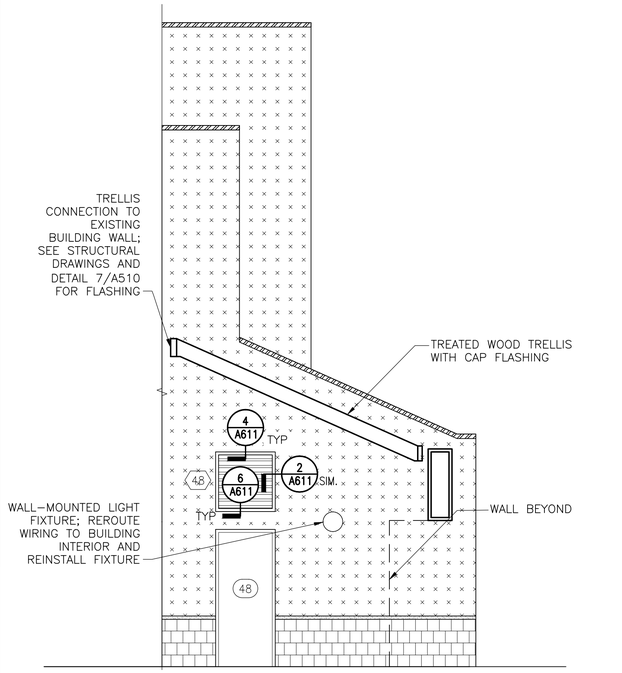
Drawing No.

A201



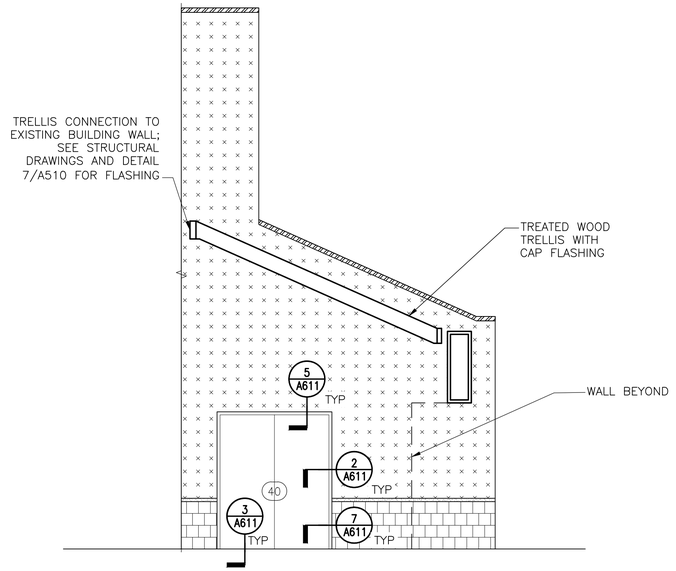
1 SOUTH ELEVATION – EAST END

1/4" = 1'-0"



2 PARTIAL ELEVATION AT EAST END OF GYMNASIUM

1/4" = 1'-0"



3 PARTIAL ELEVATION AT NORTH END OF GYMNASIUM

1/4" = 1'-0"

NOTE: Electrical work shown on this drawing shall be approved by an electrical engineer licensed in the State of Maryland, and shall be performed by a qualified electrician licensed in the State of Maryland.

LEGEND:

- SOFFIT EIFS ASSEMBLY OVER NEW CFMF
- EIFS ASSEMBLY OVER NEW SHEATHING AND CFMF BACKUP
- EIFS ASSEMBLY OVER CMU BACKUP
- BRICK MASONRY
- CAST STONE BAND AT BRICK TO EIFS TRANSITION
- METAL GRAVEL STOP OR COPING
- SYNTHETIC CLAY TILE ROOF
- EXT. WOOD TRELLIS ANCHORS (ANCHORS ARE ALSO ATTACHED TO BACKSIDE OF EIFS CLAD BEAM)
- HOSE BIB; REPLACE AND PROVIDE LONGER CONNECTION
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NOTE: VERIFY ALL TYPES, NUMBER AND LOCATION OF MEP FIXTURES ON THE ELEVATIONS

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Consultant

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No.	Date	Description	By
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	11/20/15	Pricing/Permit Set	
1	01/22/16	Bid Set (County Response Set)	

PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE GERMANTOWN, MD 20876

Project

ELEVATIONS

Drawing Title

Project No.	Checked	Date
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Drawn	Approved	Scale
BSR/CEM	DSS	AS SHOWN

Drawing No.

A202

Seal

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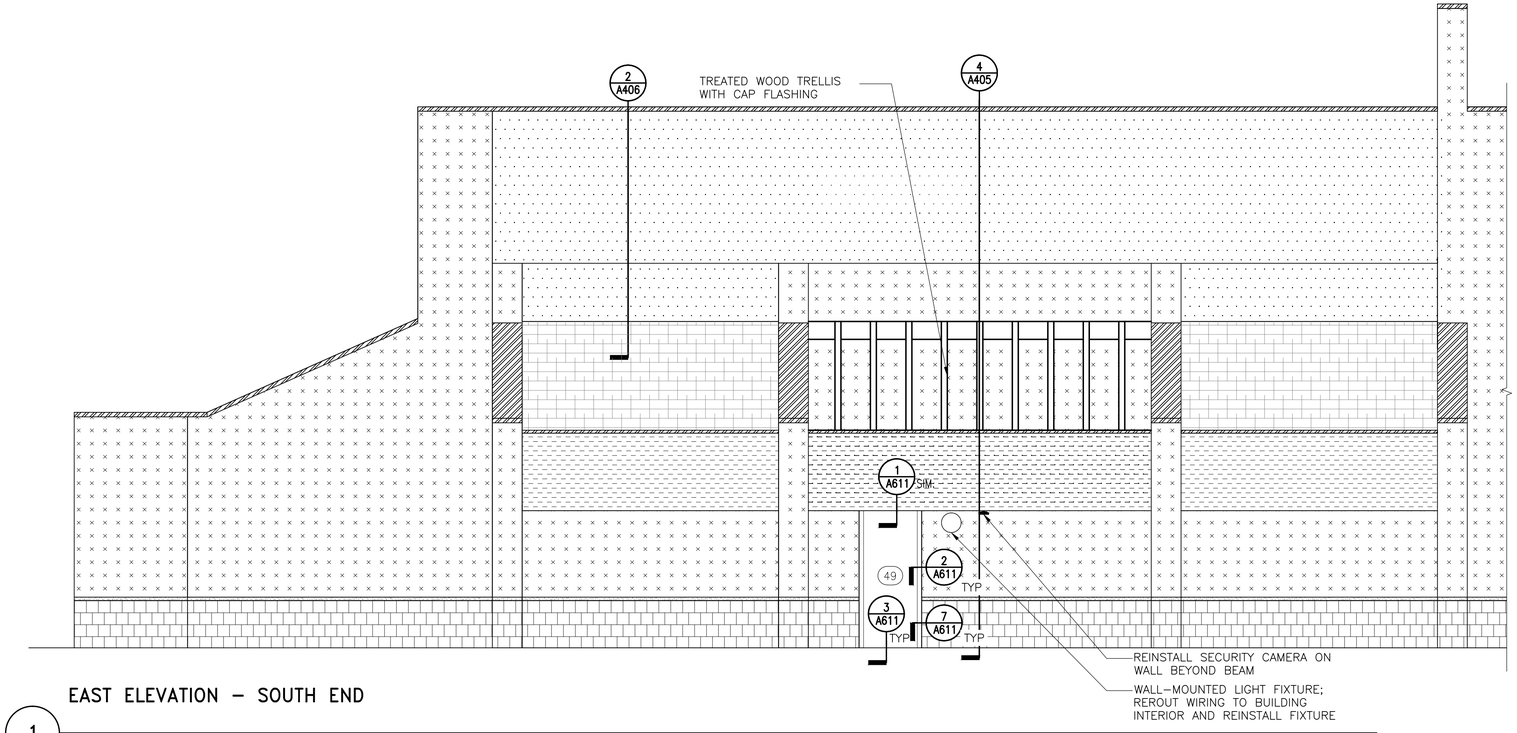
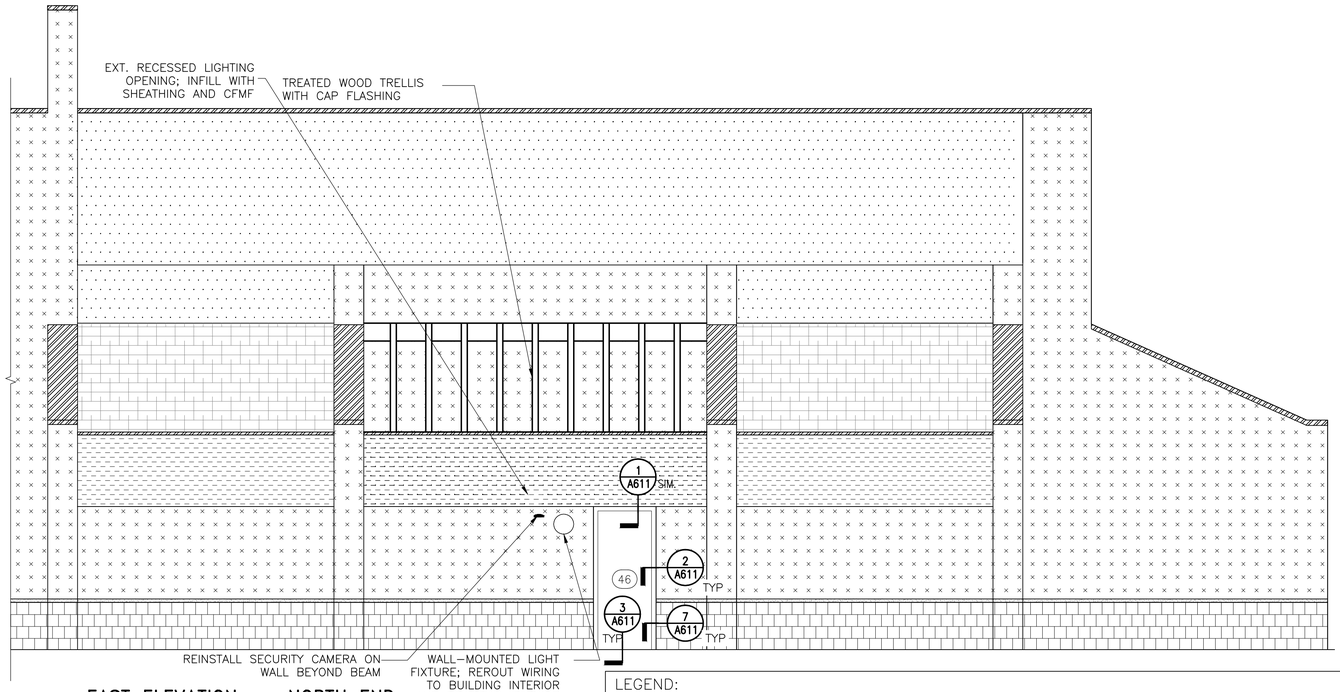


EAST ELEVATION – SOUTH END

1

1/4" = 1'-0"



EAST ELEVATION – NORTH END

2

1/4" = 1'-0"

LEGEND:

- SOFFIT EIFS ASSEMBLY OVER NEW CFMF
- EIFS ASSEMBLY OVER NEW SHEATHING AND CFMF BACKUP
- EIFS ASSEMBLY OVER CMU BACKUP
- BRICK MASONRY
- CAST STONE BAND AT BRICK TO EIFS TRANSITION
- METAL GRAVEL STOP OR COPING
- SYNTHETIC CLAY TILE ROOF
- EXT. WOOD TRELLIS ANCHORS (ANCHORS ARE ALSO ATTACHED TO BACKSIDE OF EIFS CLAD BEAM)
- HOSE BIB; REPLACE AND PROVIDE LONGER CONNECTION
- VENT ON UNDERSIDE OF SOFFIT; REINSTALL OR REPLACE
- SCONCE; REINSTALL OR REPLACE
- METAL LOUVER

NOTE: VERIFY ALL TYPES, NUMBER AND LOCATION OF MEP FIXTURES ON THE ELEVATIONS

NOTE: Electrical work shown on this drawing shall be approved by an electrical engineer licensed in the State of Maryland, and shall be performed by a qualified electrician licensed in the State of Maryland.

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Consultant

BID SET

No.	Date	Description	By
	08/28/15	100% Design Development	
	11/20/15	Pricing/Permit Set	
1	01/22/16	Bid Set (County Response Set)	

PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION
MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

Project

ELEVATIONS

Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
BSR/CEM	DSS	AS SHOWN

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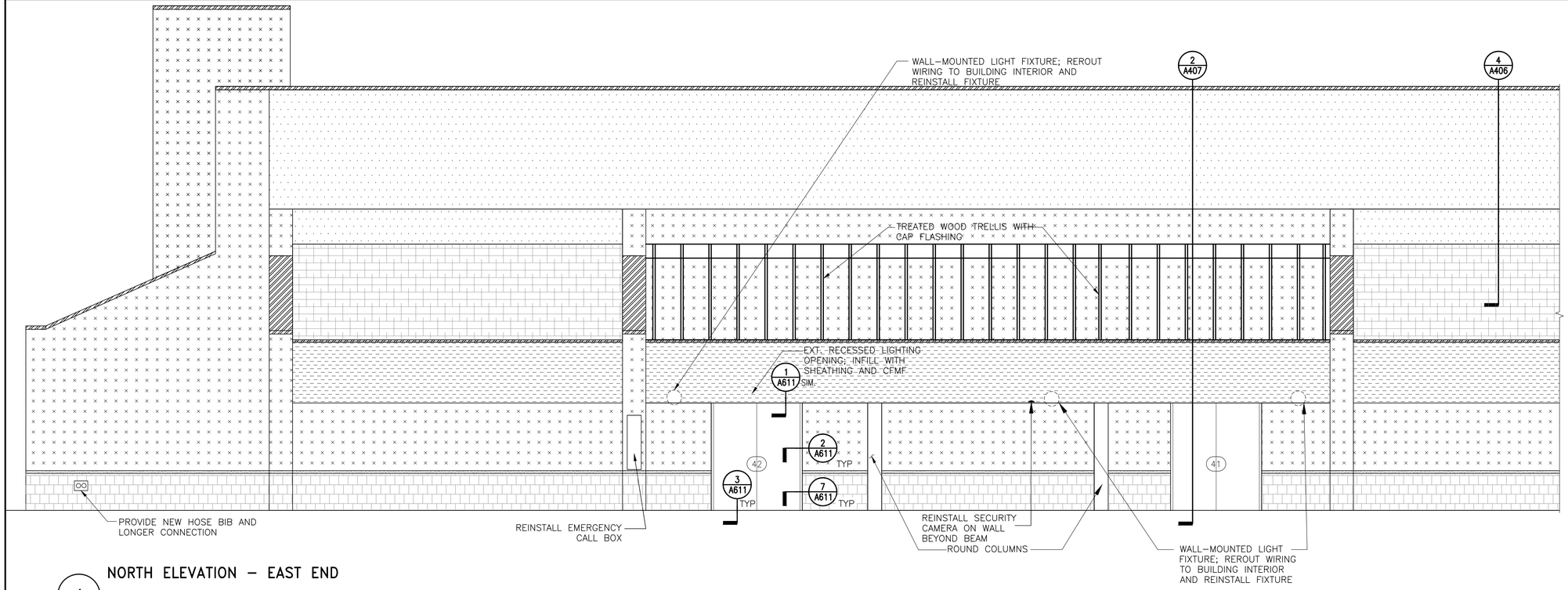
Seal

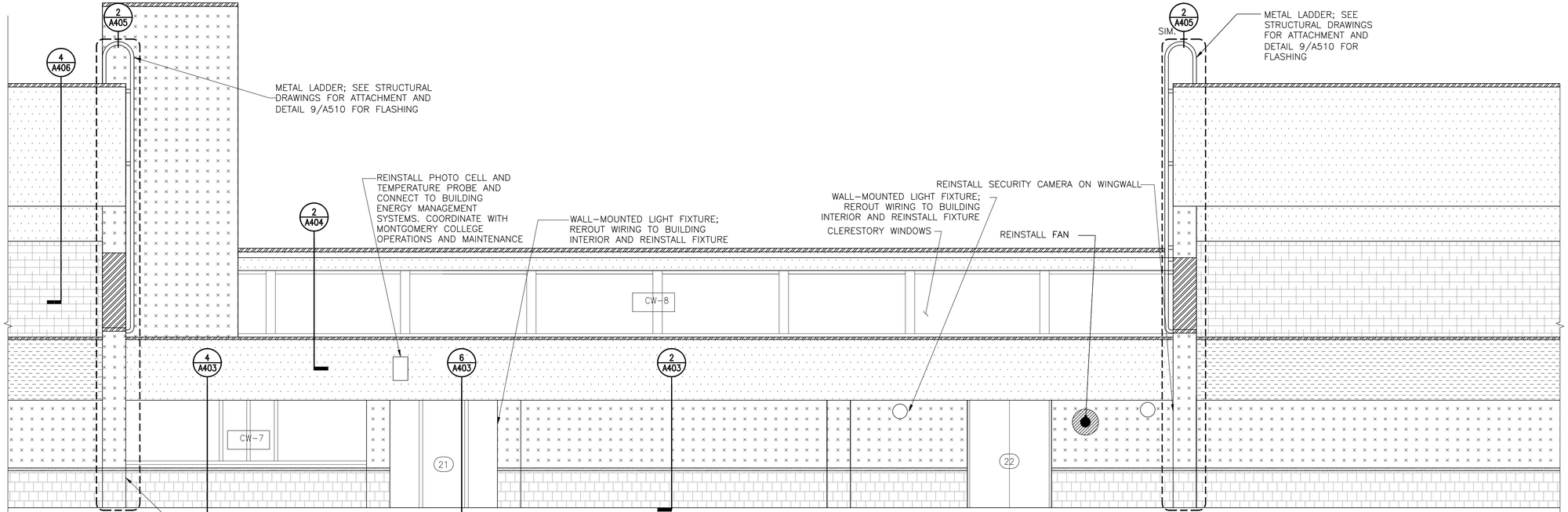
Drawing No.

A203



1 NORTH ELEVATION – EAST END

1/4" = 1'-0"



2 NORTH ELEVATION – MIDDLE

1/4" = 1'-0"

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LEGEND:

- SOFFIT EIFS ASSEMBLY OVER NEW CFMF
- EIFS ASSEMBLY OVER NEW SHEATHING AND CFMF BACKUP
- EIFS ASSEMBLY OVER CMU BACKUP
- BRICK MASONRY
- CAST STONE BAND AT BRICK TO EIFS TRANSITION
- METAL GRAVEL STOP OR COPING
- SYNTHETIC CLAY TILE ROOF
- EXT. WOOD TRELLIS ANCHORS (ANCHORS ARE ALSO ATTACHED TO BACKSIDE OF EIFS CLAD BEAM)
- HOSE BIB; REPLACE AND PROVIDE LONGER CONNECTION
- VENT ON UNDERSIDE OF SOFFIT; REINSTALL OR REPLACE
- SCONCE; REINSTALL OR REPLACE
- METAL LOUVER

NOTE: VERIFY ALL TYPES, NUMBER AND LOCATION OF MEP FIXTURES ON THE ELEVATIONS

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PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION
MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE GERMANTOWN, MD 20876

Project

ELEVATIONS

Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn: BSR/CEM	Approved: DSS	Scale: AS SHOWN

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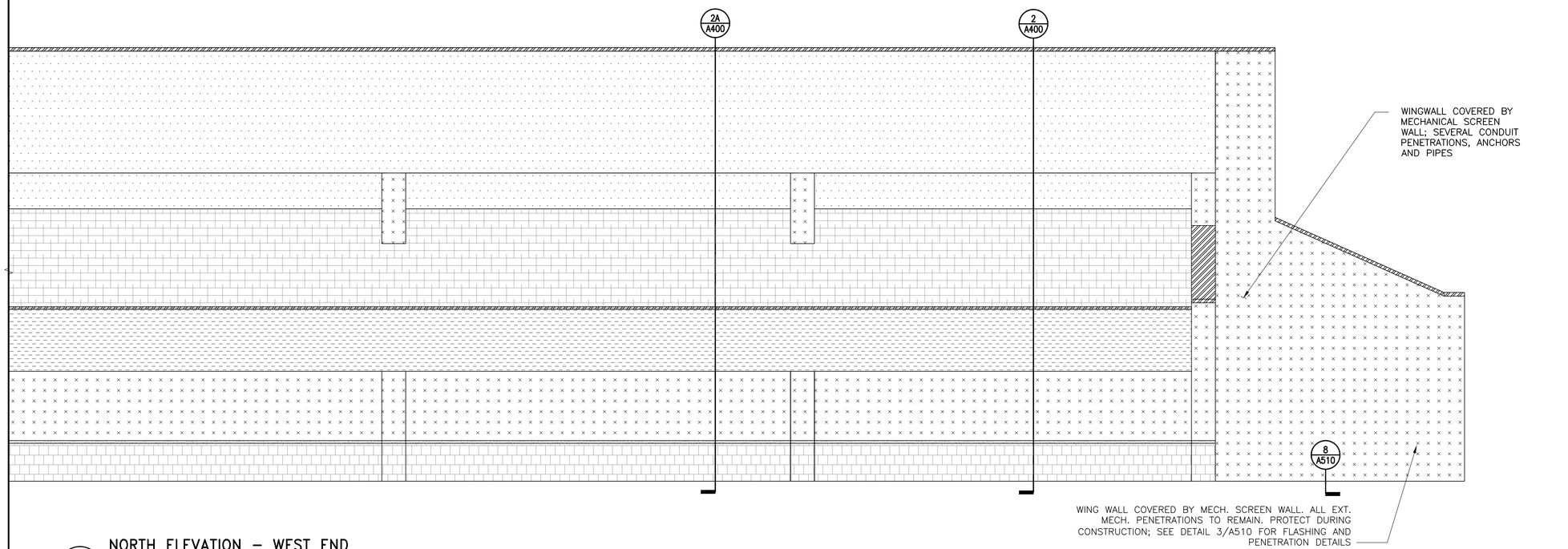
Seal

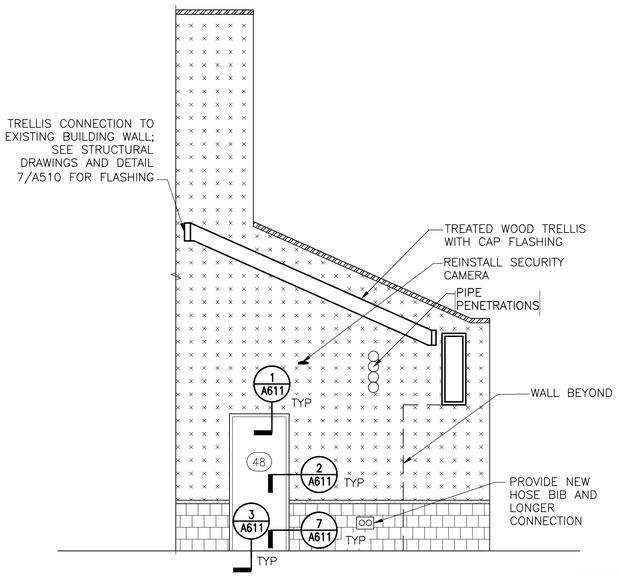
Drawing No.

A204



1 NORTH ELEVATION – WEST END

1/4" = 1'-0"



2 PARTIAL ELEVATION AT WEST END OF POOL

1/4" = 1'-0"

LEGEND:

- SOFFIT EIFS ASSEMBLY OVER NEW CFMF
- EIFS ASSEMBLY OVER NEW SHEATHING AND CFMF BACKUP
- EIFS ASSEMBLY OVER CMU BACKUP
- BRICK MASONRY
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- METAL LOUVER

NOTE: VERIFY ALL TYPES, NUMBER AND LOCATION OF MEP FIXTURES ON THE ELEVATIONS

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PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION
MONTGOMERY COLLEGE
GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

Project

ELEVATIONS

Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
BSR/CEM	DSS	AS SHOWN

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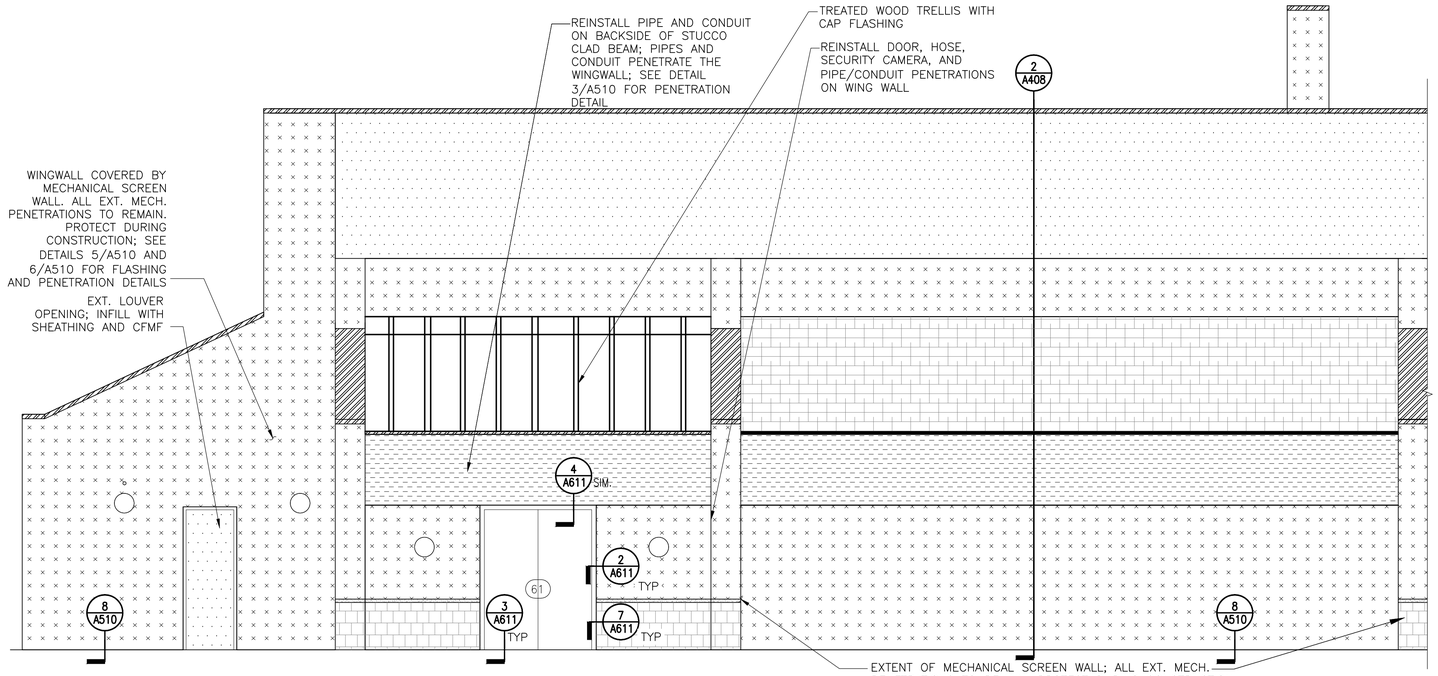
Seal

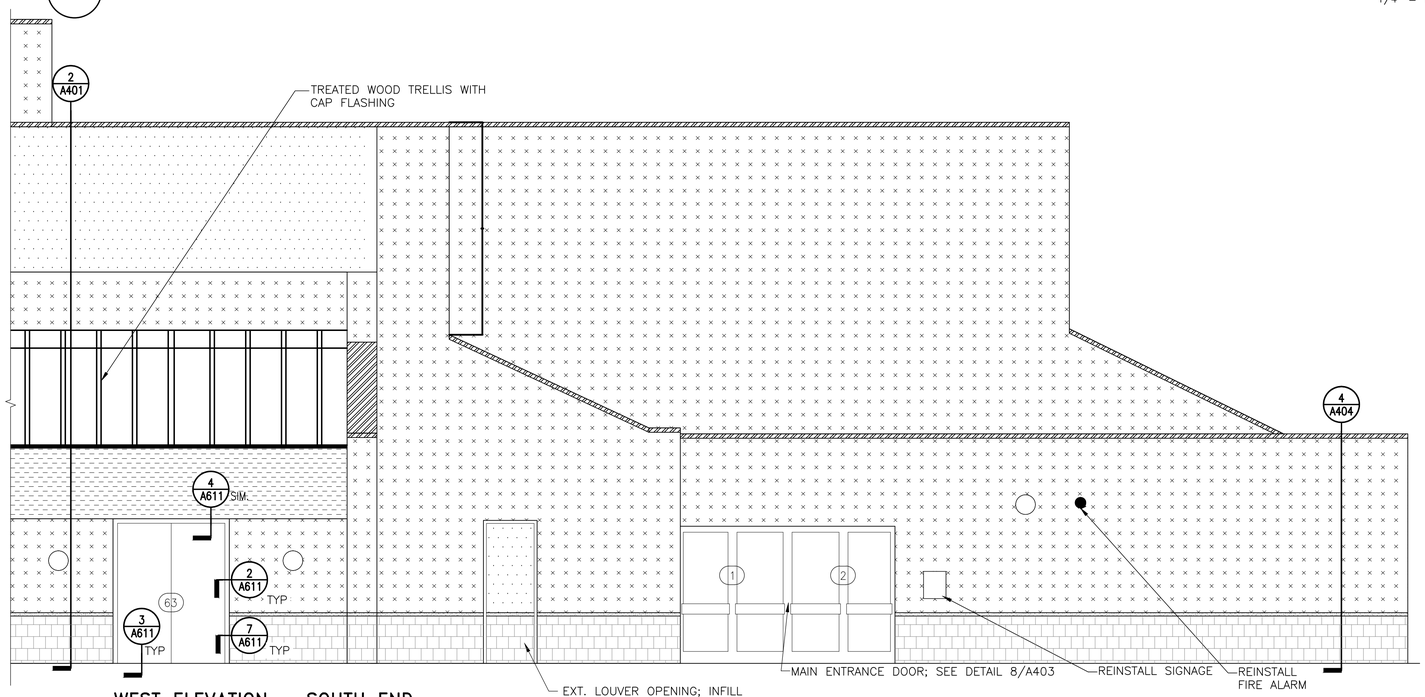
Drawing No.

A205



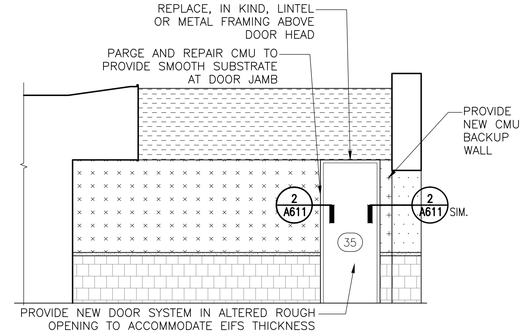
WEST ELEVATION – NORTH END

1 — 1/4" = 1'-0"



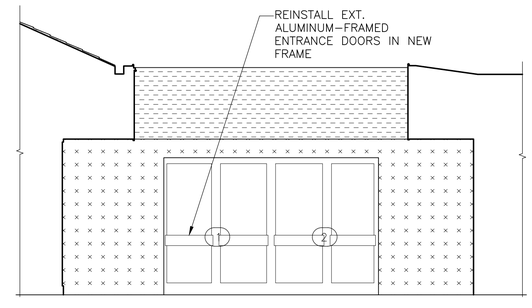
WEST ELEVATION – SOUTH END

2 — 1/4" = 1'-0"



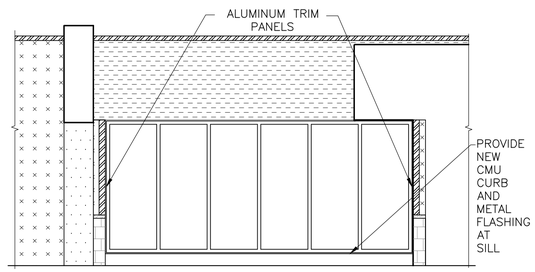
NORTH–FACING ENTRYWAY ELEVATION

3 — 1/4" = 1'-0"



WEST–FACING ENTRYWAY ELEVATION

4 — 1/4" = 1'-0"



SOUTH–FACING ENTRYWAY ELEVATION

5 — 1/4" = 1'-0"

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- EIFS ASSEMBLY OVER NEW SHEATHING AND CFMF BACKUP
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- SYNTHETIC CLAY TILE ROOF
- EXT. WOOD TRELLIS ANCHORS (ANCHORS ARE ALSO ATTACHED TO BACKSIDE OF EIFS CLAD BEAM)
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- METAL LOUVER

NOTE: VERIFY ALL TYPES, NUMBER AND LOCATION OF MEP FIXTURES ON THE ELEVATIONS

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PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE GERMANTOWN, MD 20876

Project

ELEVATIONS

Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
BSR/CFM	DSS	AS SHOWN

Drawing No.

A206

Professional Engineer Seal
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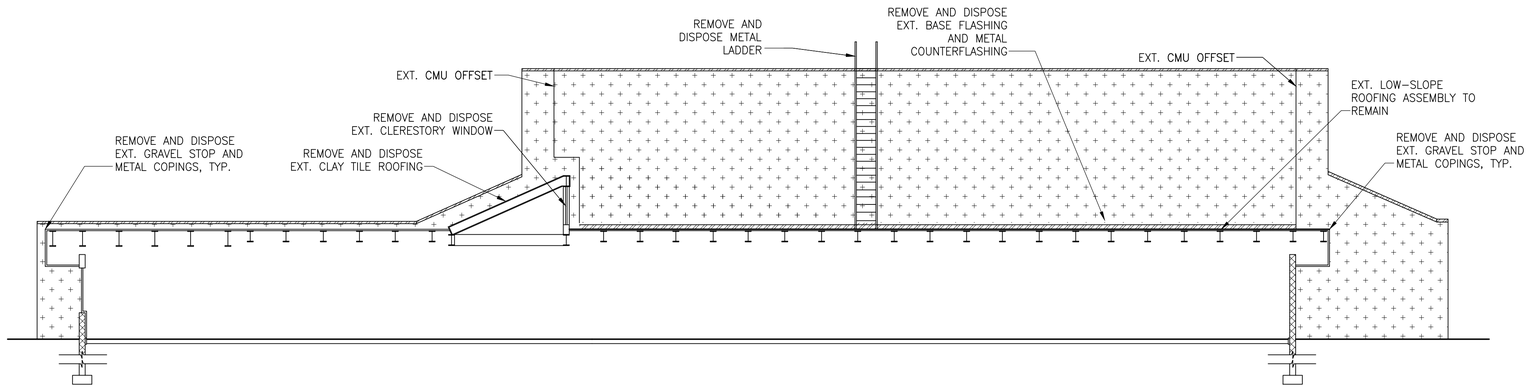
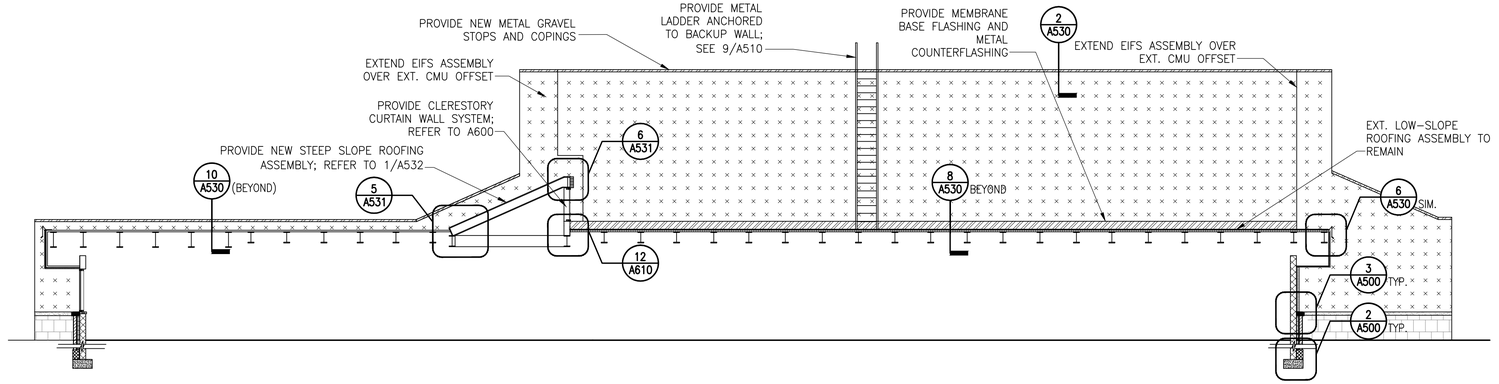


1 BUILDING SECTION LOOKING WEST – DEMO

1/8" = 1'-0"



2 BUILDING SECTION LOOKING WEST – NEW

1/8" = 1'-0"

LEGEND:

- DIRECT APPLIED STUCCO ON CMU BACKUP; TO REMAIN, REPAIR AS REQUIRED
- EIFS ASSEMBLY OVER NEW SHEATHING AND CFMF BACKUP
- EIFS ASSEMBLY OVER CMU BACKUP
- BRICK MASONRY
- CAST STONE BAND AT BRICK TO EIFS TRANSITION
- METAL GRAVEL STOP OR COPING

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PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION
MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

Project

BUILDING SECTIONS

Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
CEM/BSR	DSS	AS SHOWN

Professional Engineer's Seal
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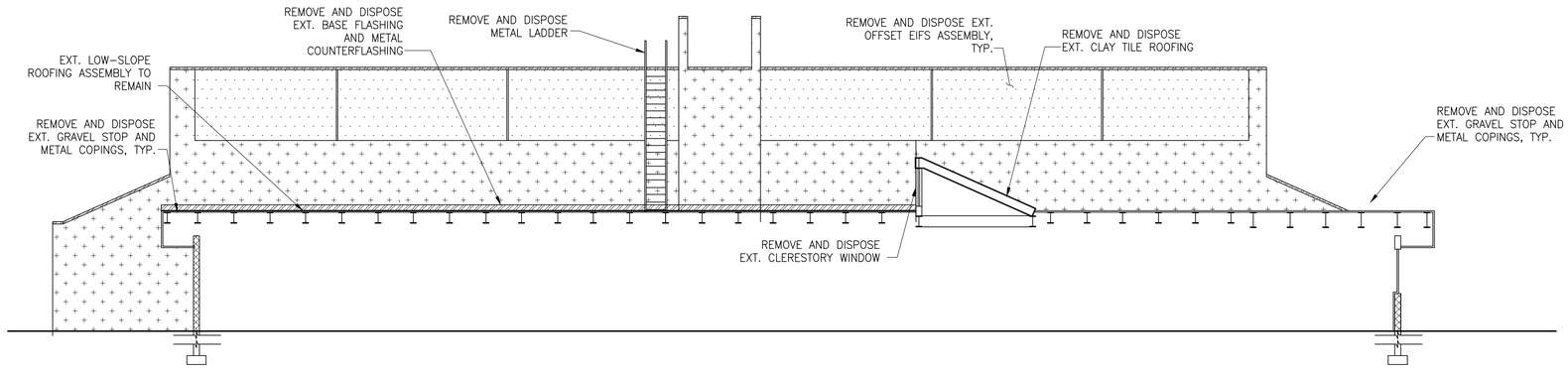
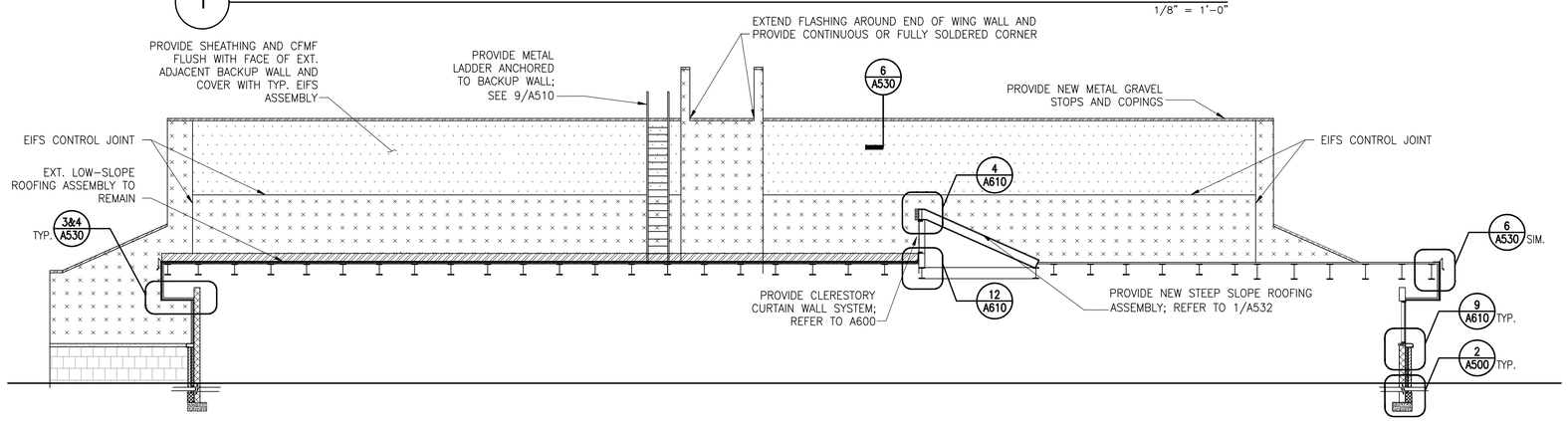
Drawing No.

A300



1 BUILDING SECTION LOOKING EAST – DEMO

1/8" = 1'-0"



2 BUILDING SECTION LOOKING EAST – NEW

1/8" = 1'-0"

LEGEND:

- DIRECT APPLIED STUCCO ON CMU BACKUP; TO REMAIN, REPAIR AS REQUIRED
- EIFS ASSEMBLY OVER NEW SHEATHING AND CFMF BACKUP
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PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION
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20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

Project

BUILDING SECTIONS

Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
CEM/BSR	DSS	AS SHOWN

Professional Engineer
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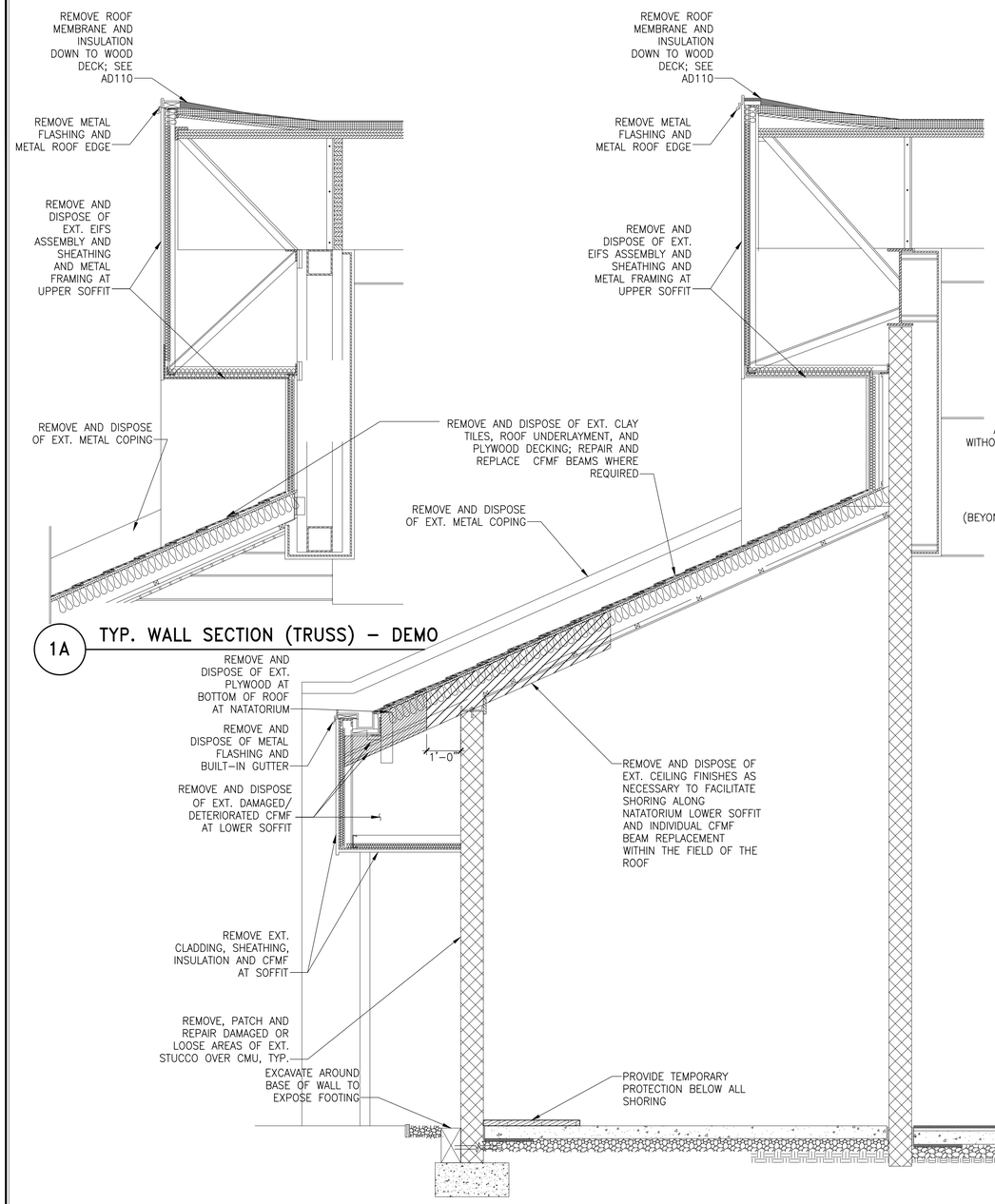
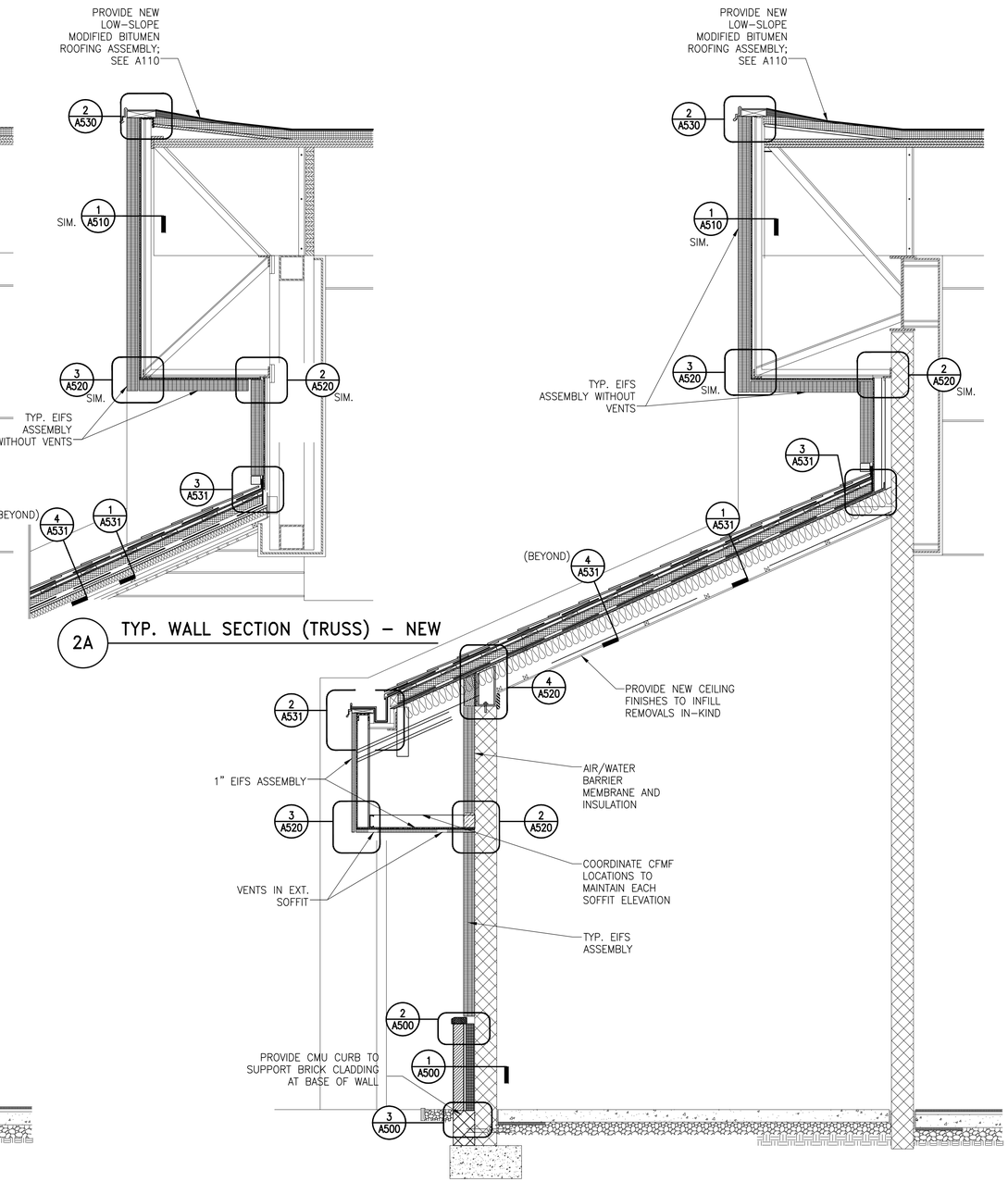
Seal

Drawing No.

A301



1A TYP. WALL SECTION (TRUSS) – DEMO



2A TYP. WALL SECTION (TRUSS) – NEW

1 EXISTING TYP. WALL SECTION AT NATATORIUM – DEMO

1/2"=1'-0"

2 TYP. WALL SECTION AT NATATORIUM – NEW

1/2"=1'-0"

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Project

WALL SECTIONS

Drawing Title

Project No. 150049.01	Checked PKF	Date 01/22/16
Drawn CEM/BSR	Approved DSS	Scale AS SHOWN

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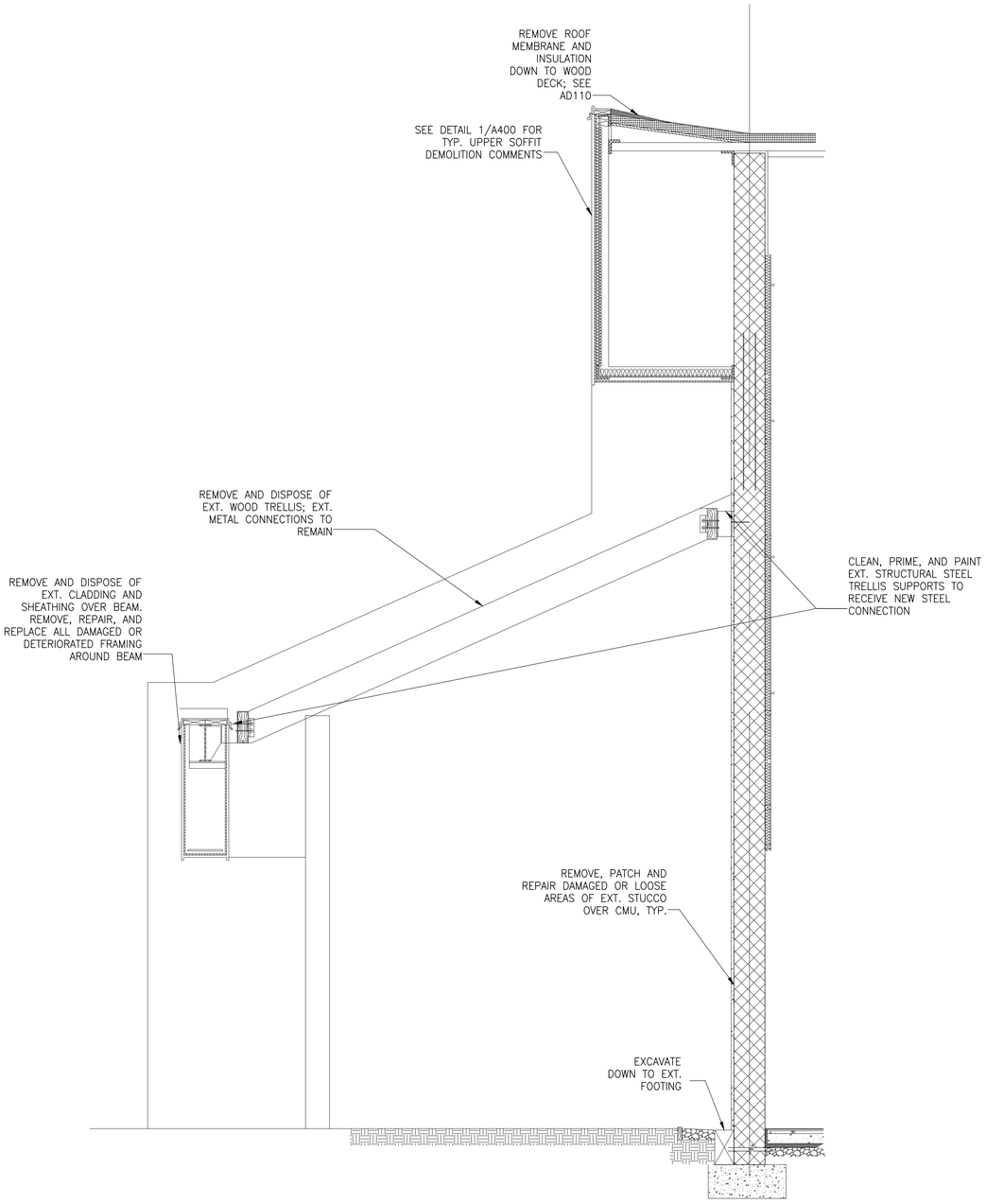
Seal

Drawing No.

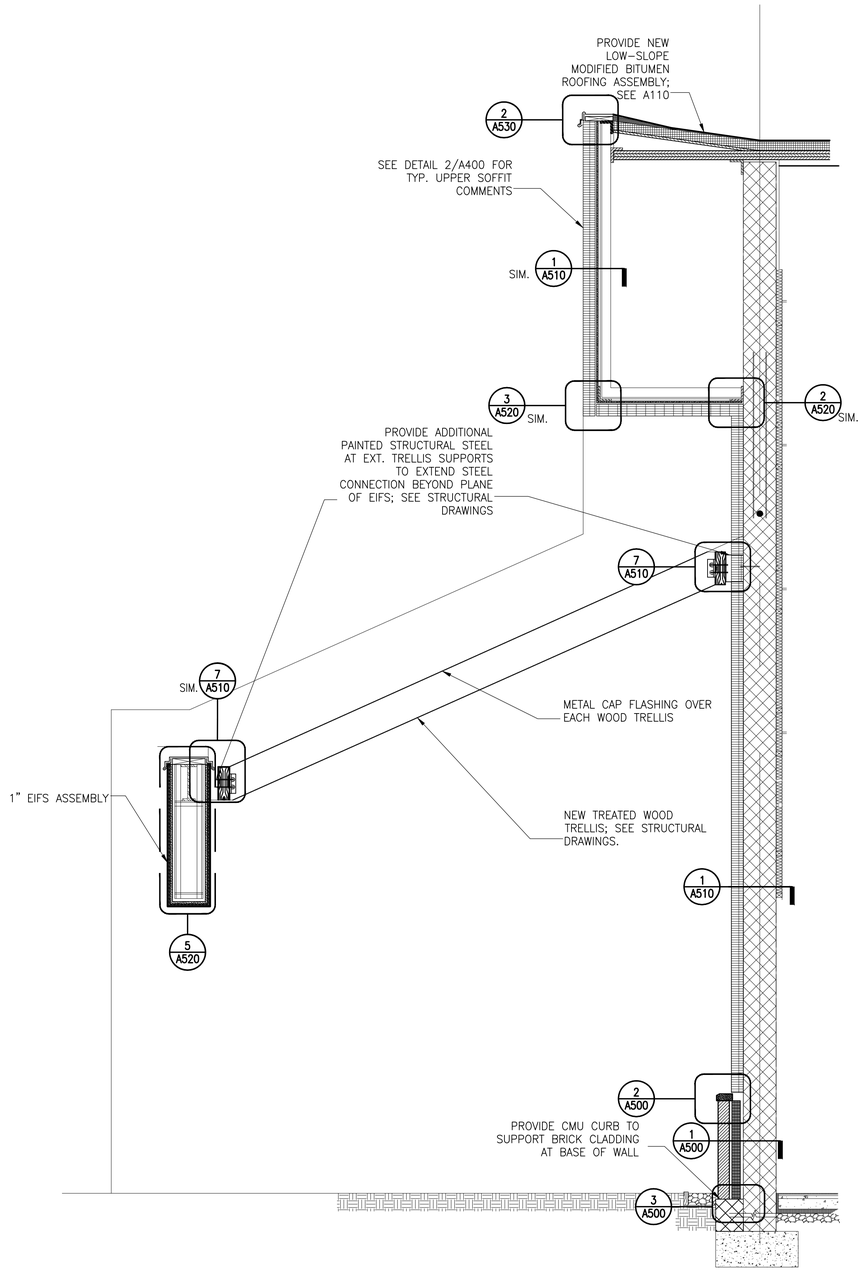
A400



1 EXISTING TYP. WALL SECTION AT WOOD TRELLIS – DEMO

NOTE: SEE DETAIL 1/A400 FOR TYP. DEMO AT SIM. EXTERIOR WALLS AND SOFFITS

1/2"=1'-0"



2 TYP. WALL SECTION AT WOOD TRELLIS – NEW

1/2"=1'-0"

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	11/20/15	Pricing/Permit Set	
1	01/22/16	Bid Set (County Response Set)	

PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION
MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

Project

WALL SECTIONS

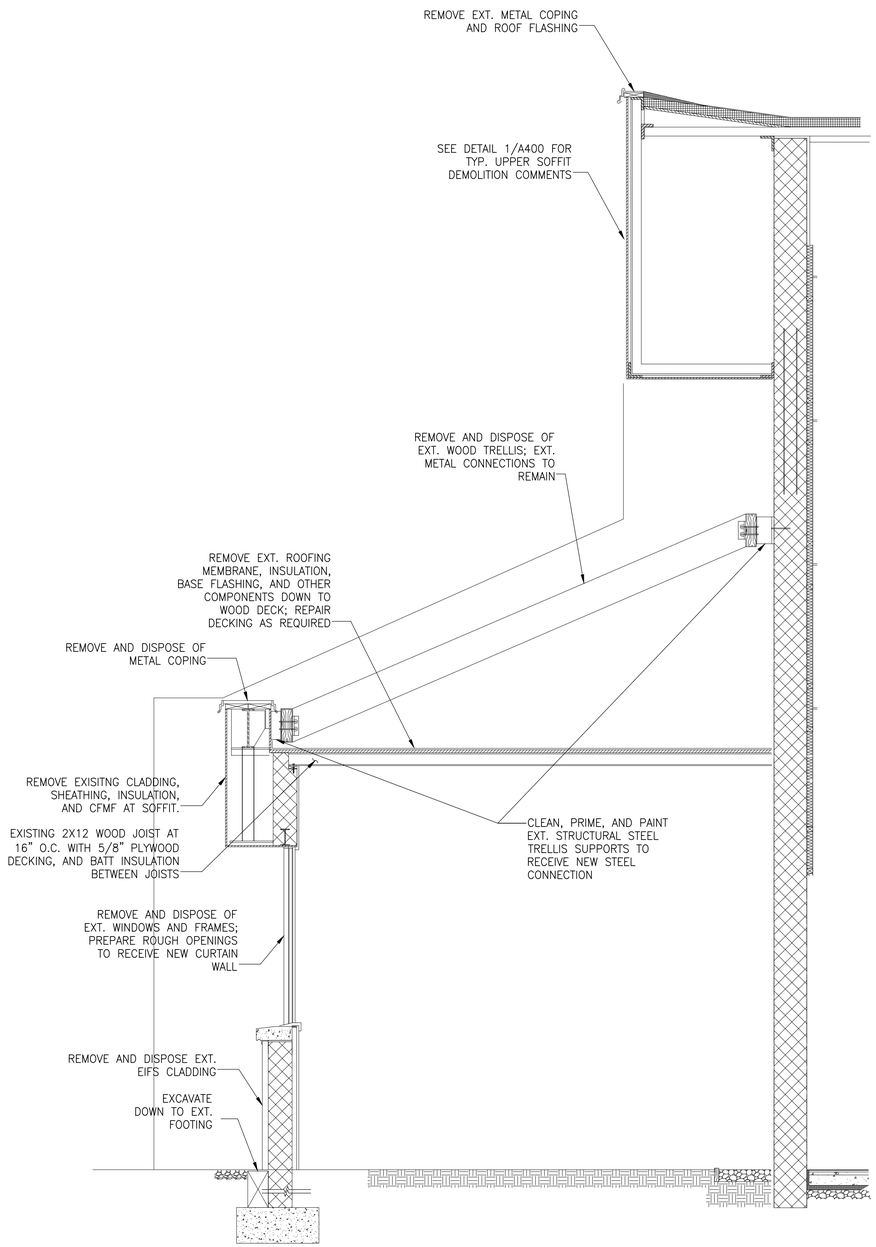
Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
CEM/BSR	DSS	AS SHOWN

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 33154 Exp. Date: 6/1/17
Seal

Drawing No.

A401

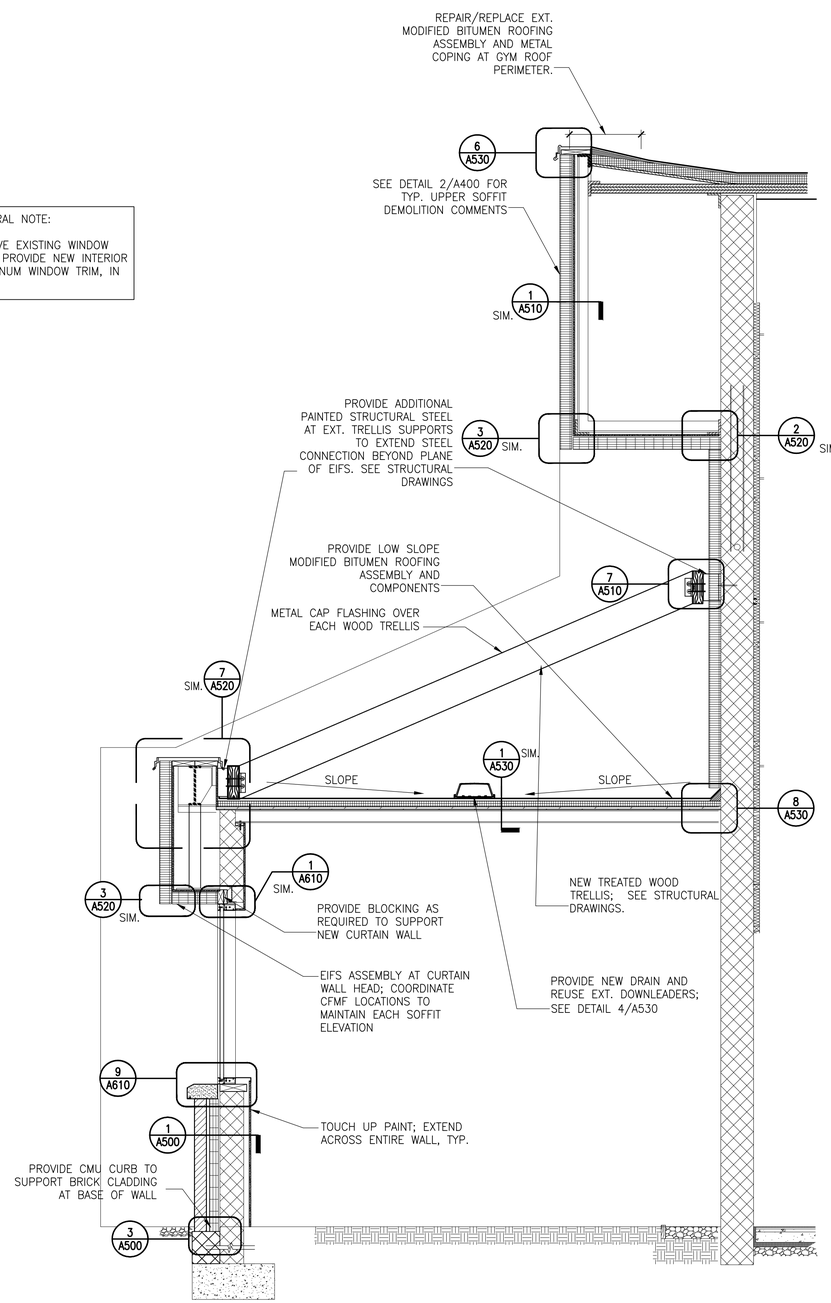


1 EXISTING WEIGHT ROOM WALL SECTION – DEMO

1/2"=1'-0"

GENERAL NOTE:

REMOVE EXISTING WINDOW TRIM. PROVIDE NEW INTERIOR ALUMINUM WINDOW TRIM, IN KIND



2 WEIGHT ROOM WALL SECTION AT WOOD TRELLIS – NEW

1/2"=1'-0"

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Cost Estimating Consultant — **Forella Group, LLC.**
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Consultant

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	08/28/15	100% Design Development	

PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION
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GERMANTOWN, MD 20876

Project

WALL SECTIONS

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Drawn	Approved	Scale
CEM/BSR	DSS	AS SHOWN

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Seal

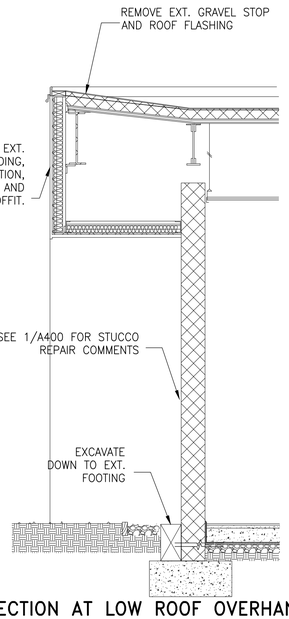
Drawing No.

A402

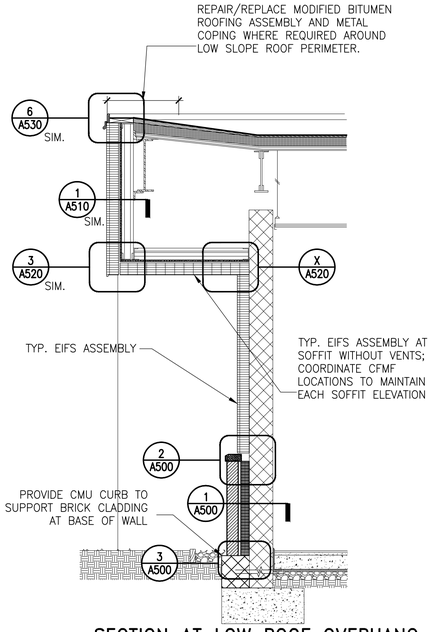
GENERAL NOTE:

1. REMOVE EXISTING WINDOW TRIM. PROVIDE NEW INTERIOR ALUMINUM WINDOW TRIM, IN KIND

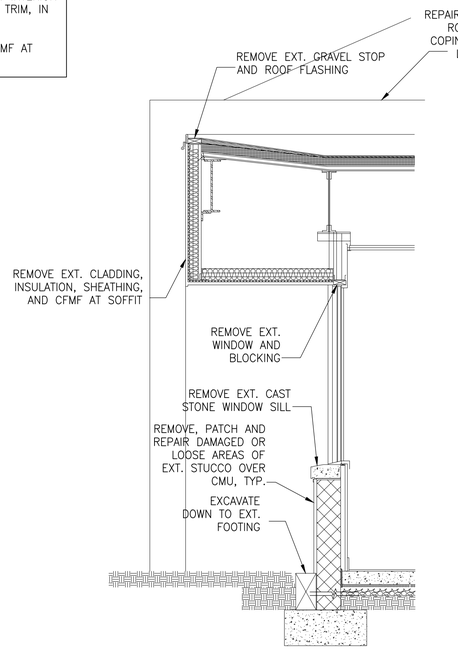
2. REMOVE ALL CFMF AT SOFFITS



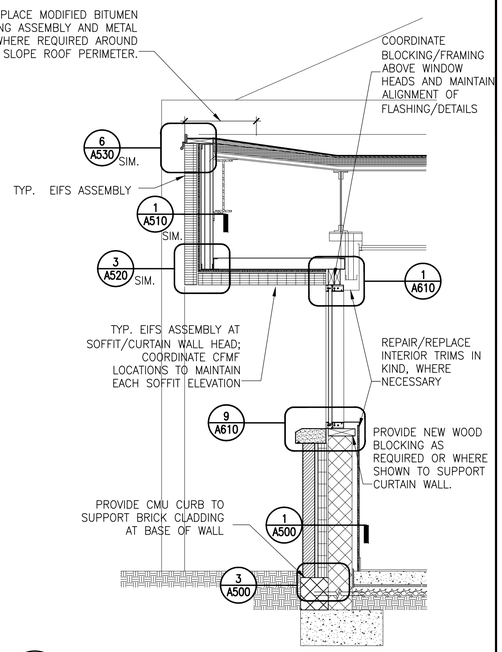
1 SECTION AT LOW ROOF OVERHANG – DEMO
1/2" = 1'–0"



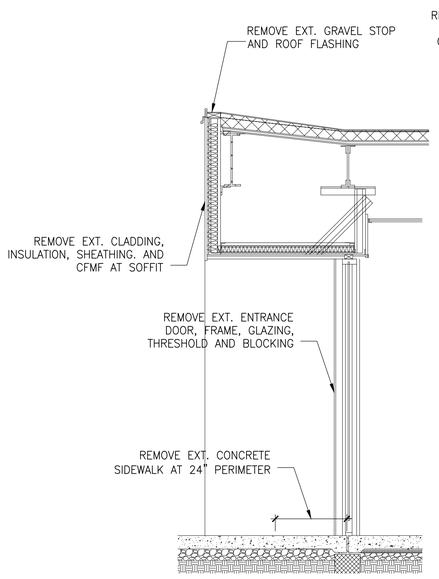
2 SECTION AT LOW ROOF OVERHANG – NEW
1/2" = 1'–0"



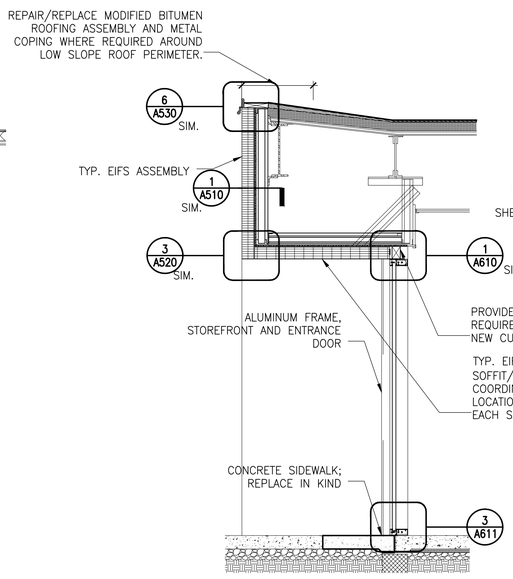
3 TYP. SECTION AT WINDOW – DEMO
1/2" = 1'–0"



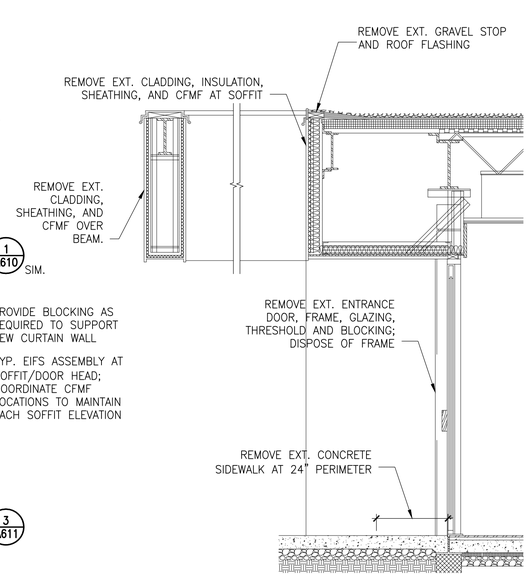
4 SECTION AT WINDOW – NEW
1/2" = 1'–0"



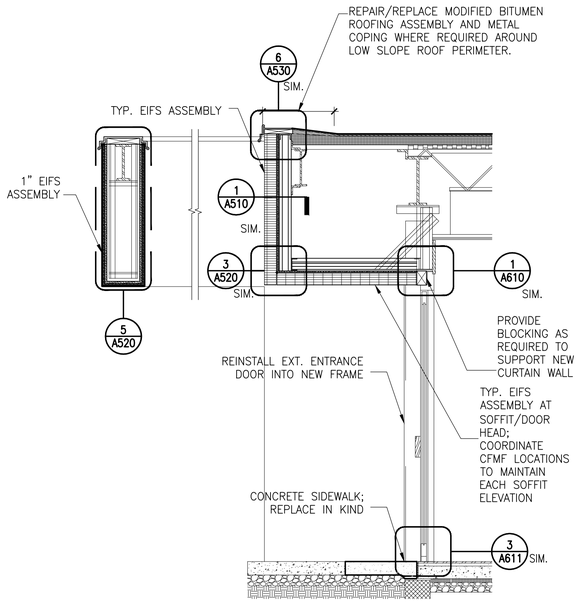
5 SECTION AT NORTH ENTRANCE – DEMO
1/2" = 1'–0"



6 SECTION AT NORTH ENTRANCE – NEW
1/2" = 1'–0"



7 DOOR AT MAIN ENTRANCE – DEMO
1/2" = 1'–0"



8 DOOR AT MAIN ENTRANCE – NEW
1/2" = 1'–0"

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GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

Project

WALL SECTIONS

Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
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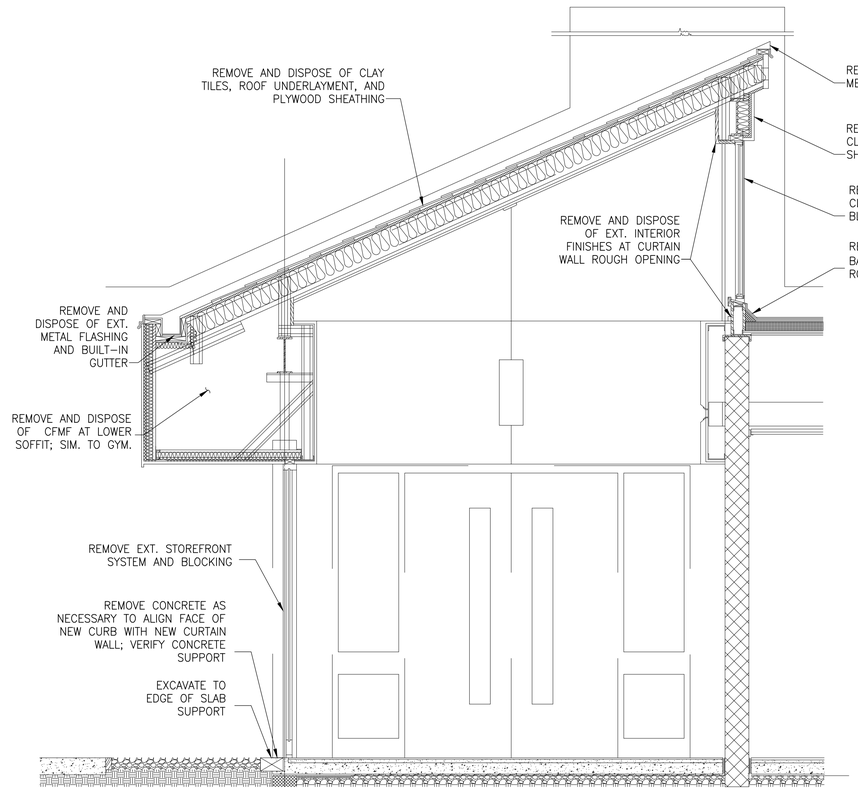
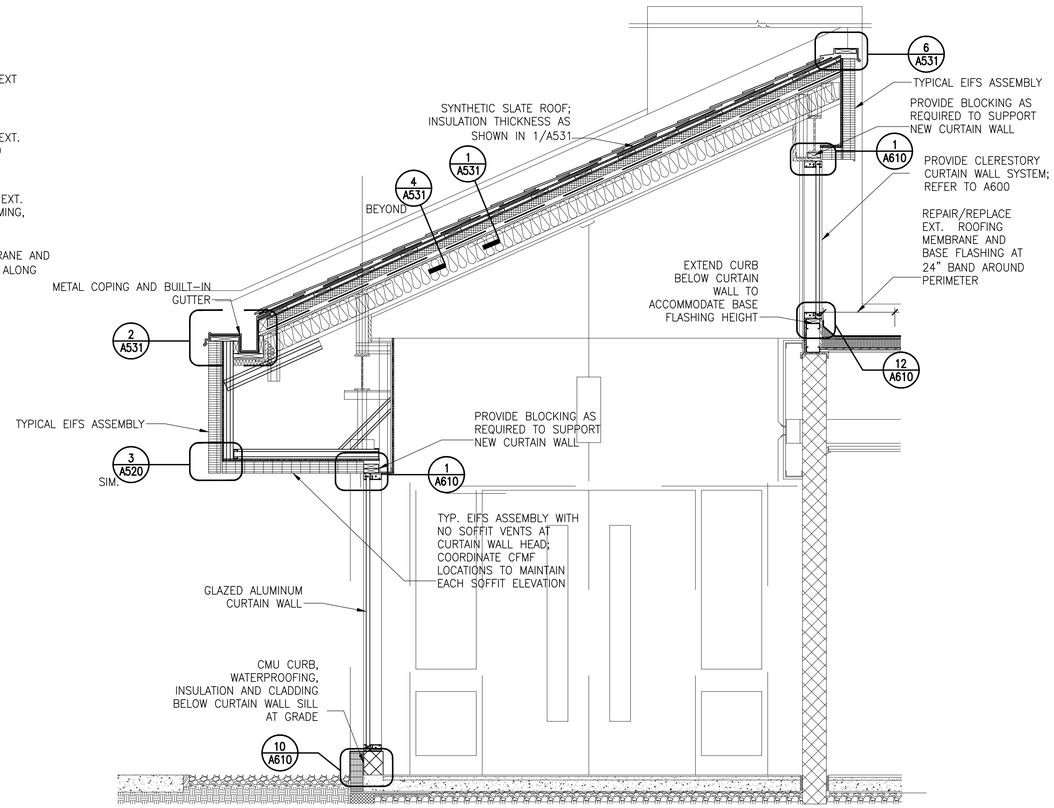
Seal

Drawing No.

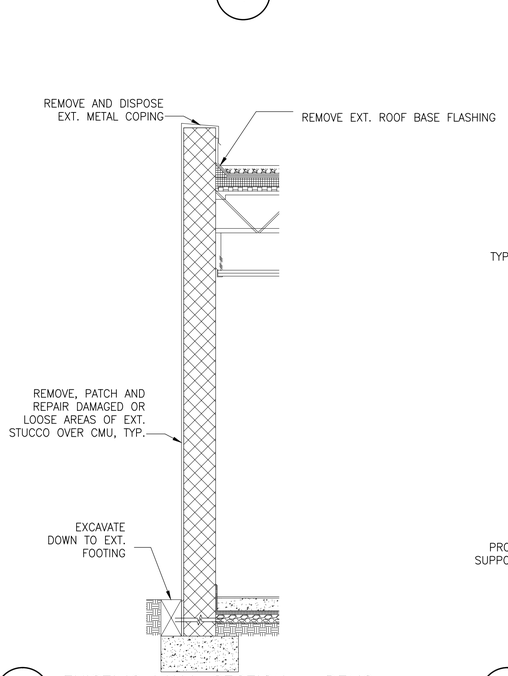
A403



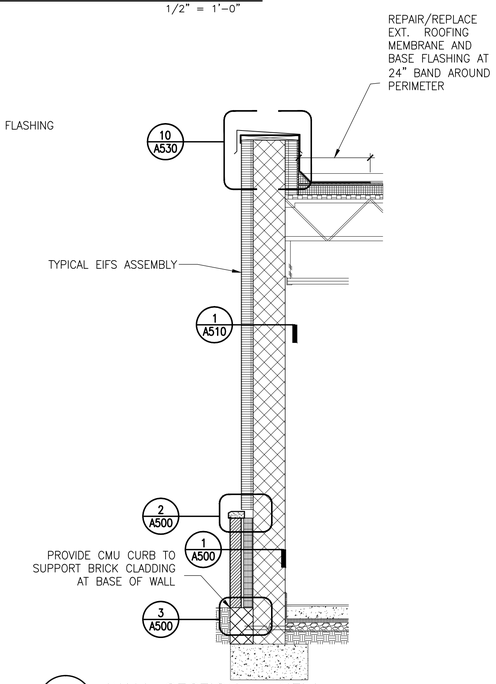
1 SECTION AT LOBBY CLERESTORY – DEMO
1/2" = 1'-0"



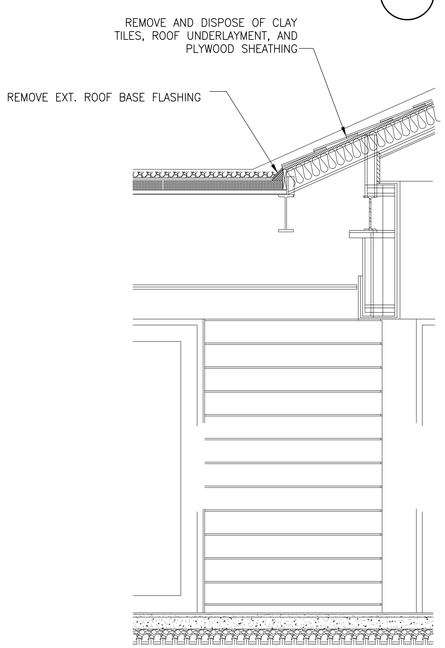
2 SECTION AT LOBBY CLERESTORY – NEW
1/2" = 1'-0"



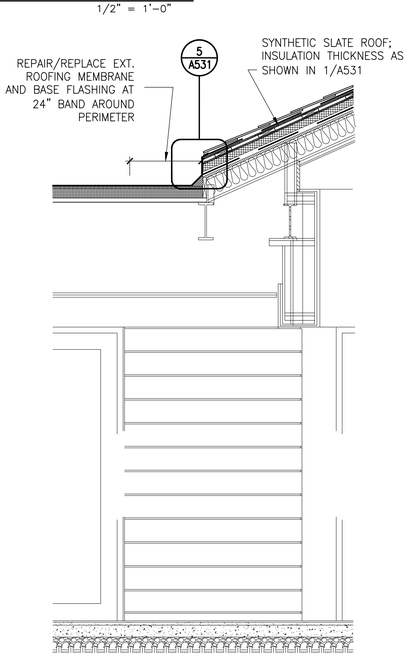
3 EXISTING WALL SECTION – DEMO
1/2" = 1'-0"



4 WALL SECTION – NEW
1/2" = 1'-0"



5 EXISTING LOBBY STEEP-SLOPED ROOF – DEMO
1/2" = 1'-0"



6 LOBBY STEEP-SLOPED ROOF – NEW
1/2" = 1'-0"

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BID SET

No.	Date	Description	By
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PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION
MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

Project

WALL SECTIONS

Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
CEM/BSR	DSS	AS SHOWN

Drawing No.

A404

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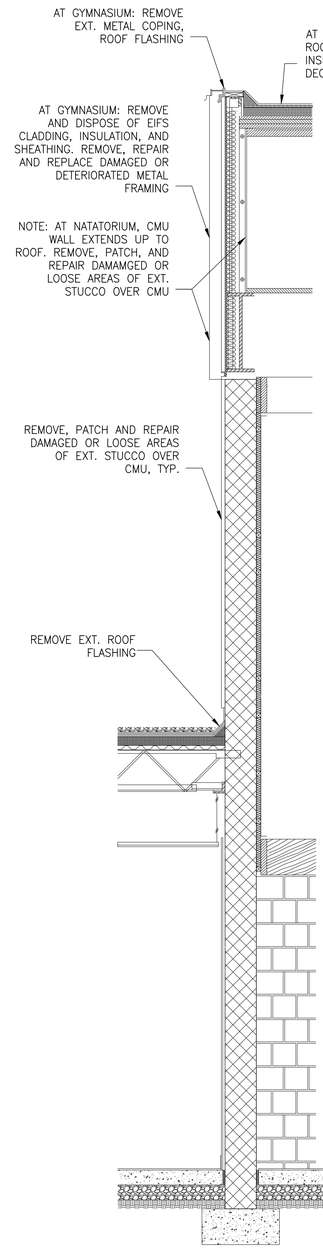
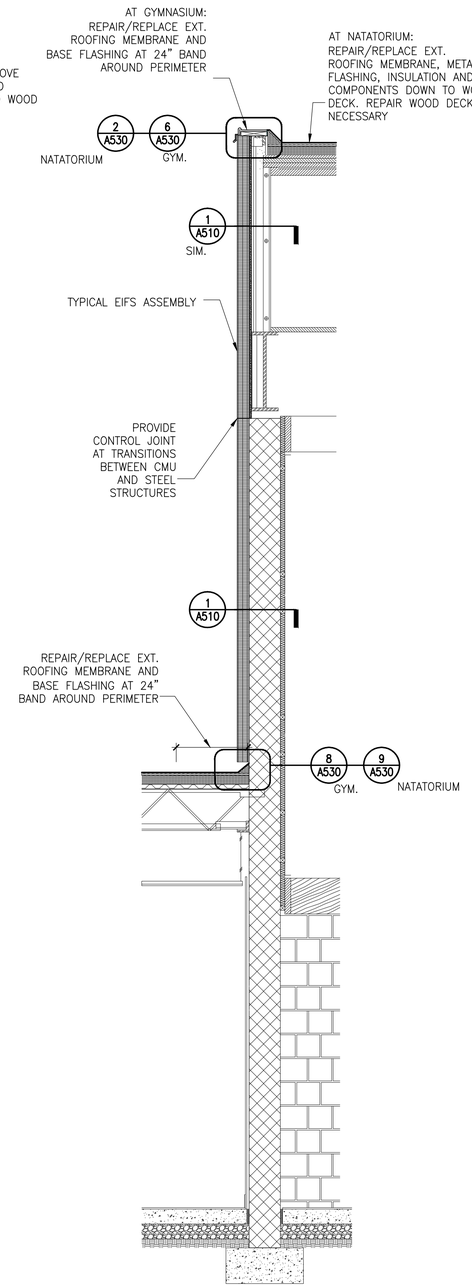
Seal



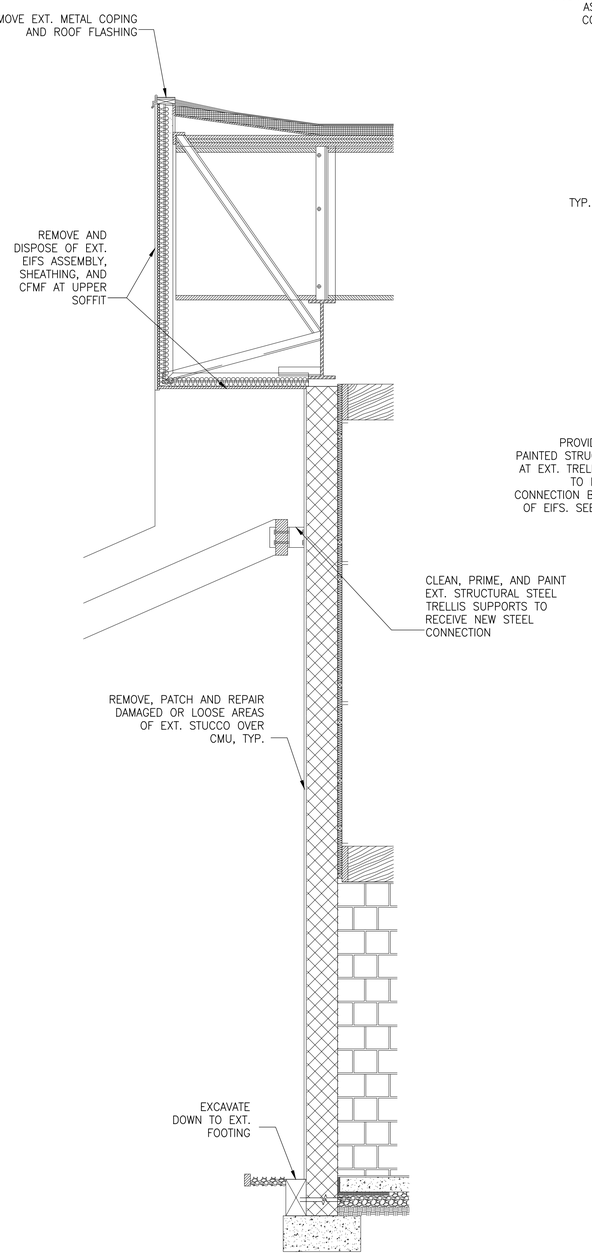
1 EXT. WALL SECTION AT LOW TO HIGH ROOF – DEMO

1/2" = 1'-0"



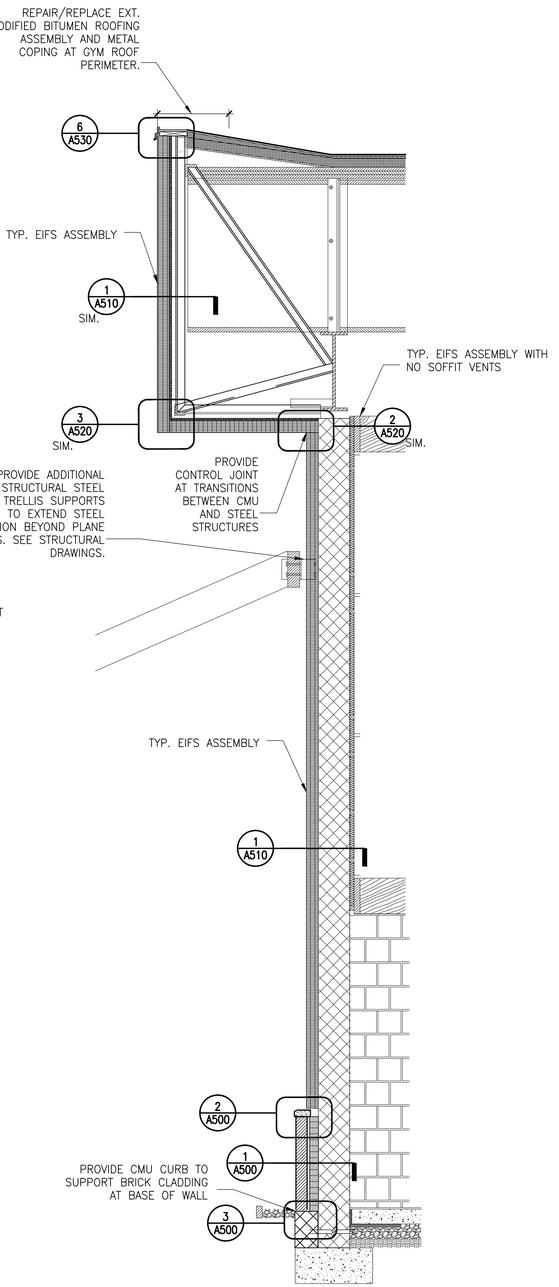
2 WALL SECTION AT LOW TO HIGH ROOF – NEW

1/2" = 1'-0"



3 EXT. SECTION AT TRELLIS – DEMO

1/2" = 1'-0"



4 WALL SECTION AT TRELLIS – NEW

1/2" = 1'-0"

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MONTGOMERY COLLEGE
GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

Project

WALL SECTIONS

Drawing Title

Project No. 150049.01	Checked PKF	Date 01/22/16
Drawn CEM/BSR	Approved DSS	Scale AS SHOWN

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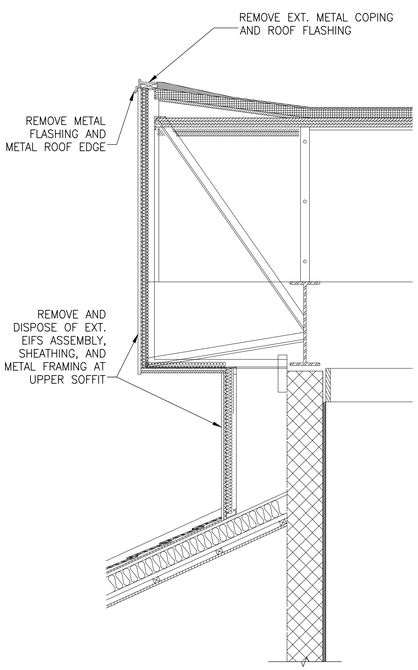
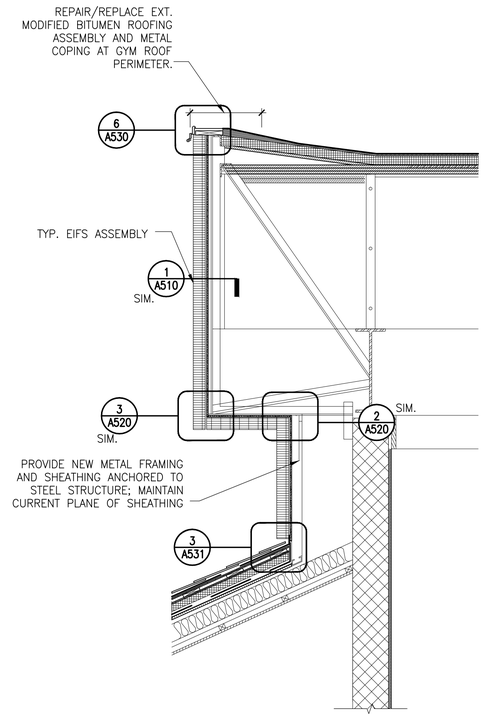
Seal

Drawing No.

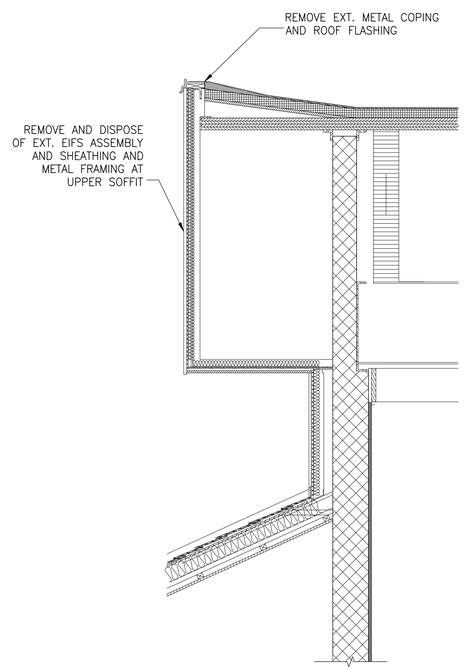
A405



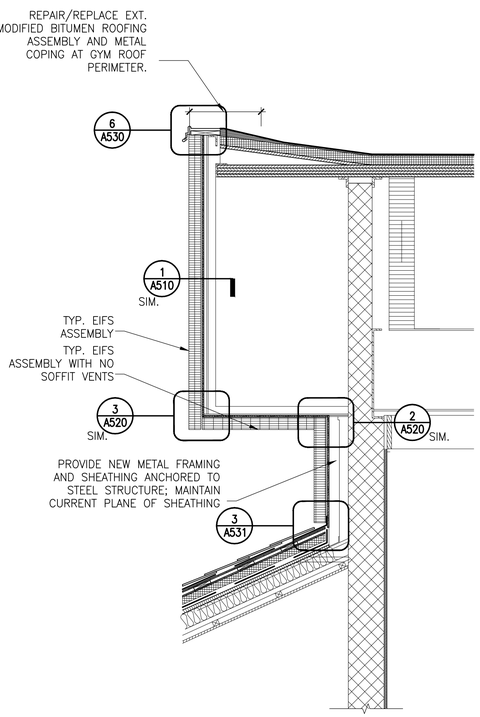
1 EXISTING WALL SECTION AT CLAY TILE ROOF AND FRAMED BACKUP – DEMO
1/2" = 1'-0"



2 WALL SECTION AT CLAY TILE ROOF AND FRAMED BACKUP – NEW
1/2" = 1'-0"



3 EXISTING WALL SECTION AT CLAY TILE ROOF AND CMU BACKUP – DEMO
1/2" = 1'-0"



4 WALL SECTION AT CLAY TILE ROOF AND CMU BACKUP – NEW
1/2" = 1'-0"

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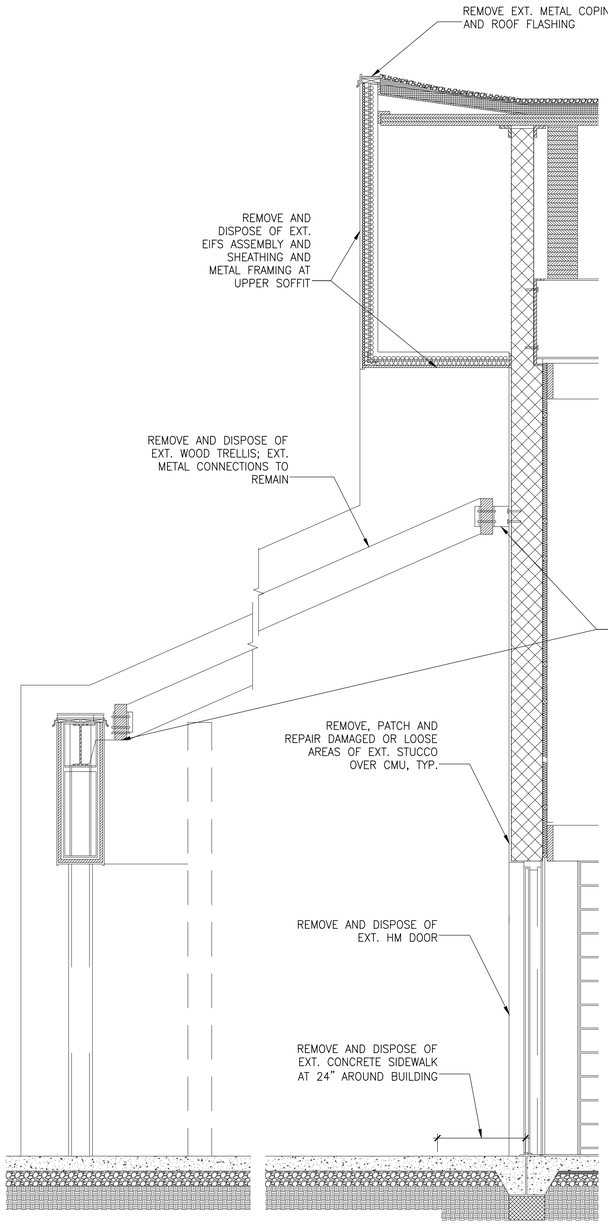
Seal

Drawing No.

A406

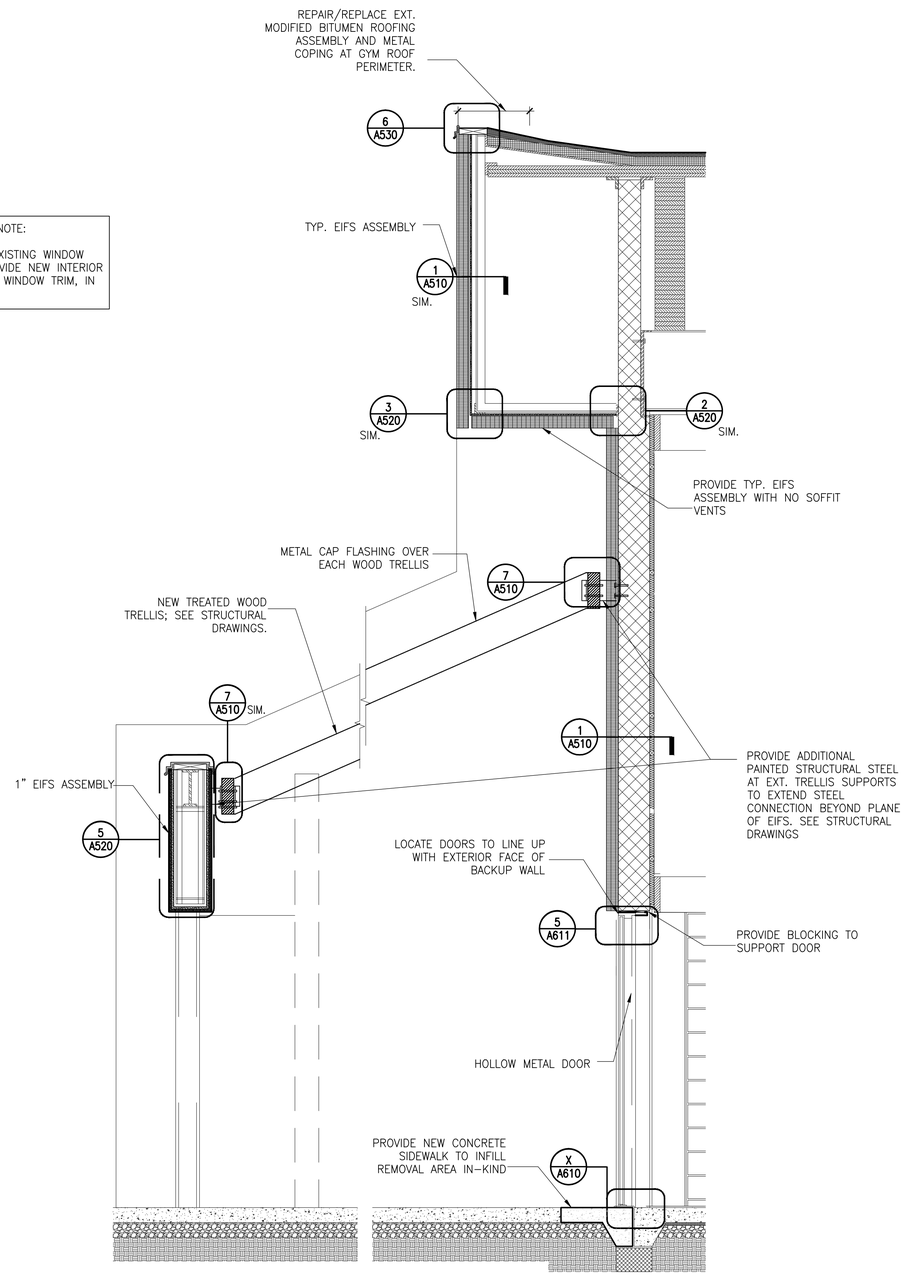


1 EXISTING WALL SECTION AT WOOD TRELLIS OVER HOLLOW METAL DOOR – DEMO

1/2" = 1'-0"

GENERAL NOTE:

REMOVE EXISTING WINDOW TRIM. PROVIDE NEW INTERIOR ALUMINUM WINDOW TRIM, IN KIND



2 WALL SECTION AT WOOD TRELLIS OVER HOLLOW METAL DOOR – NEW

1/2" = 1'-0"

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20200 OBSERVATION DRIVE GERMANTOWN, MD 20876

Project

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Professional Engineer Seal
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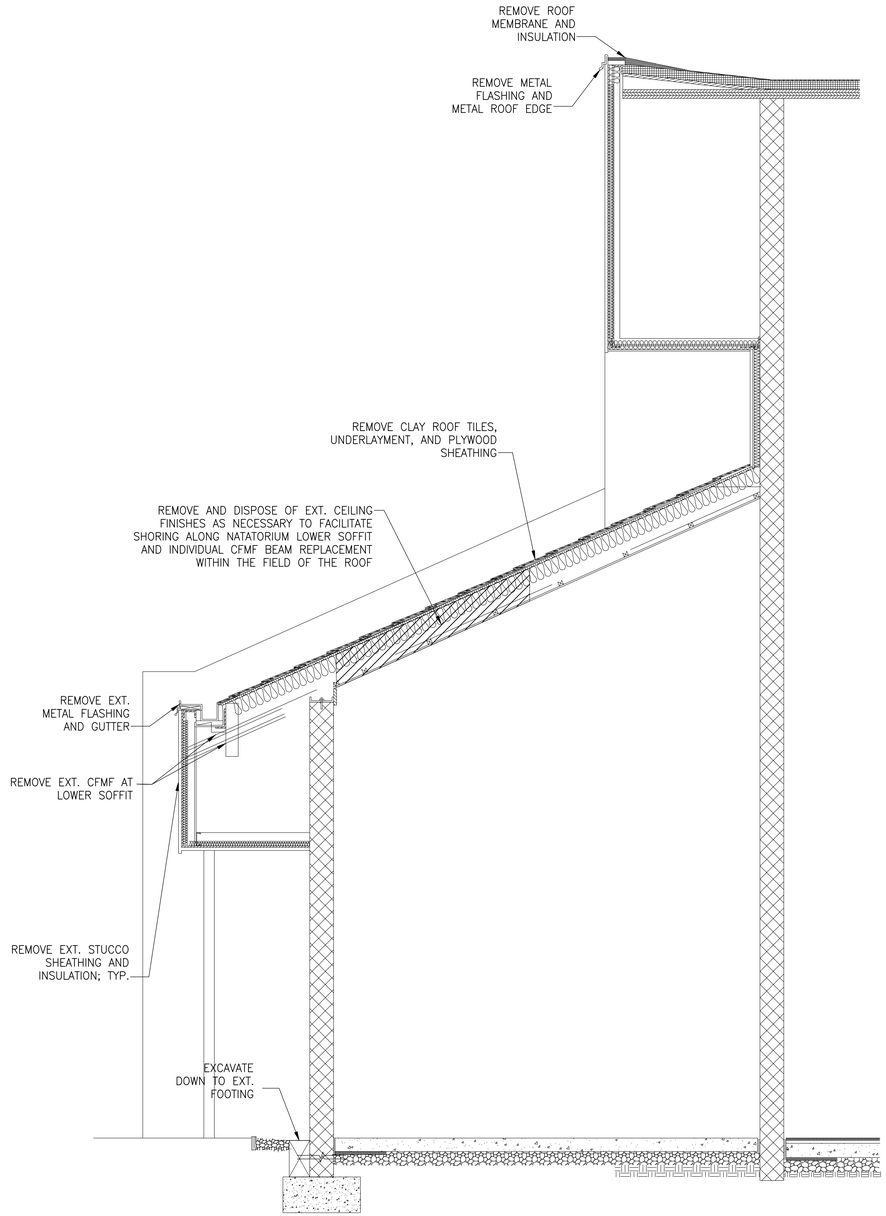
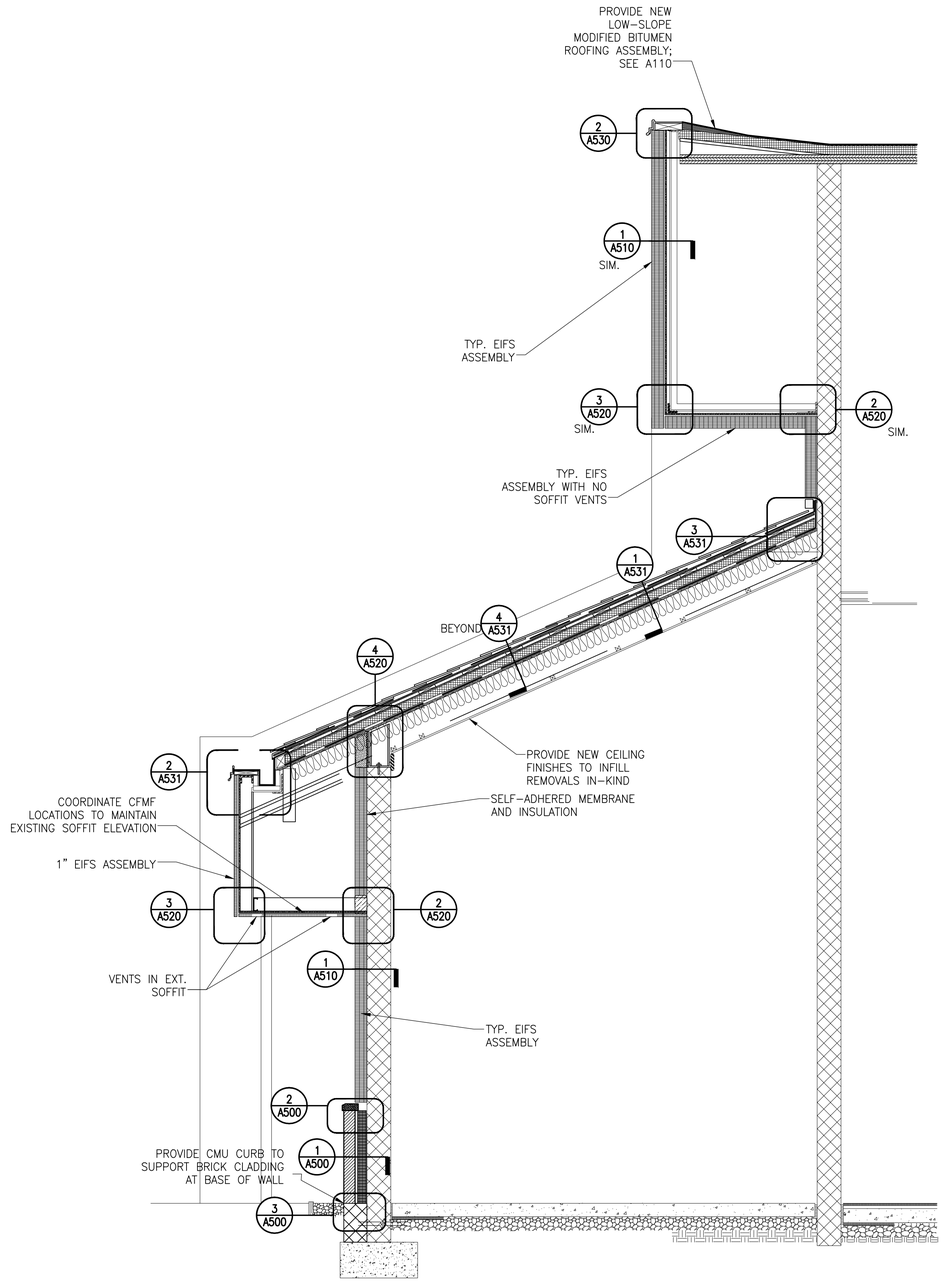
Drawing No.

A407



1 EXISTING WALL SECTION AT NATATORIUM – DEMO

1/2"=1'-0"



2 WALL SECTION AT POOL – NATATORIUM

1/2"=1'-0"

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	08/28/15	100% Design Development	

PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE GERMANTOWN, MD 20876

Project

WALL SECTIONS

Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
CEM/BSR	DSS	AS SHOWN

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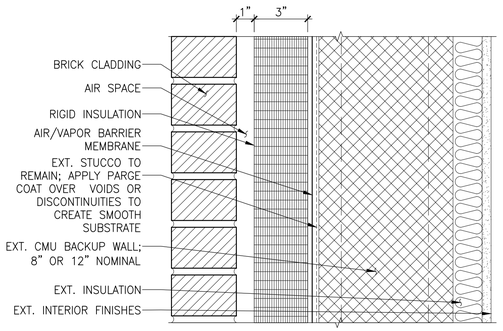
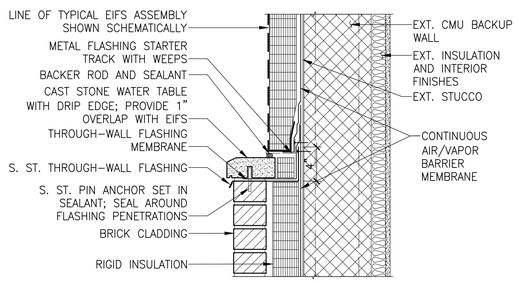
Drawing No.

A408



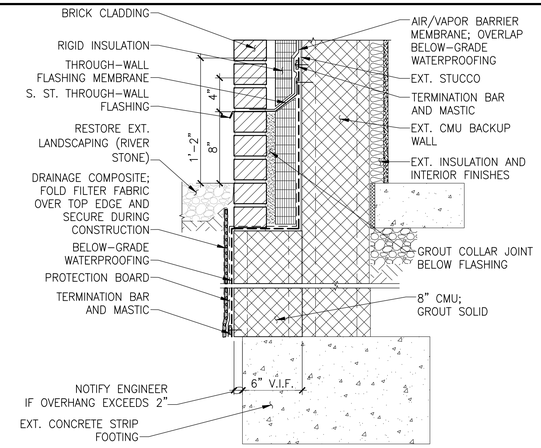
1 TYPICAL BRICK WALL SECTION

3"=1'-0"



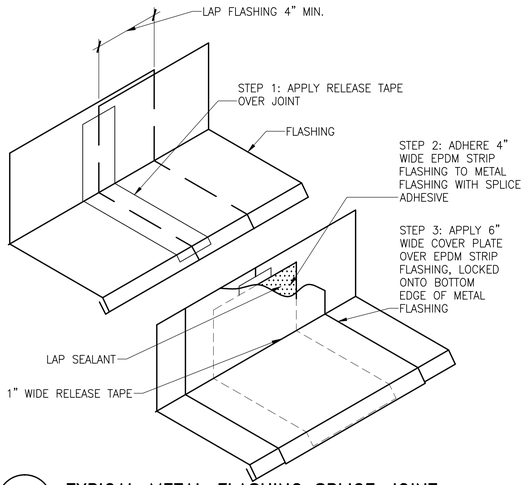
2 BRICK TO EIFS TRANSITION

1 1/2" = 1'-0"



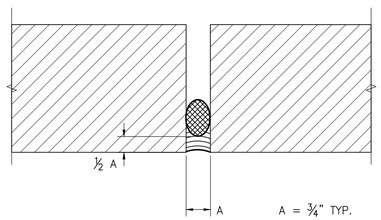
3 BRICK CLADDING AT GRADE

1 1/2" = 1'-0"



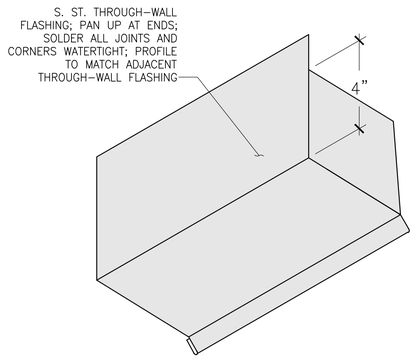
4 TYPICAL METAL FLASHING SPLICE JOINT

N.T.S.



5 TYPICAL SEALANT JOINT

N.T.S.



6 TYPICAL END DAM

N.T.S.

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BID SET

No.	Date	Description	By
	08/28/15	100% Design Development	
	11/20/15	Pricing/Permit Set	
1	01/22/16	Bid Set (County Response Set)	

PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE GERMANTOWN, MD 20876

Project

TYPICAL MASONRY AND FLASHING DETAILS

Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
BSR/CEM	DSS	AS SHOWN

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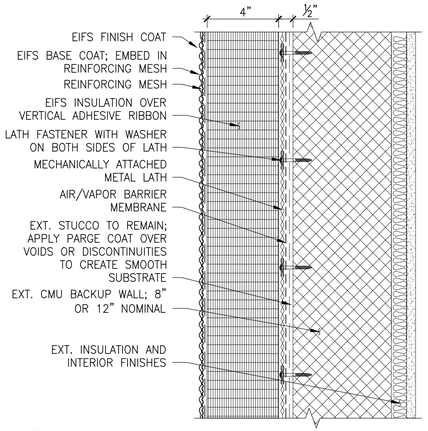
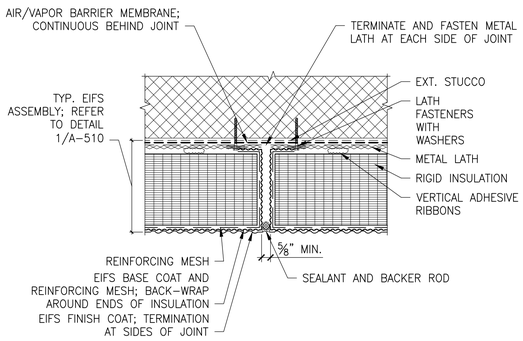
Drawing No.

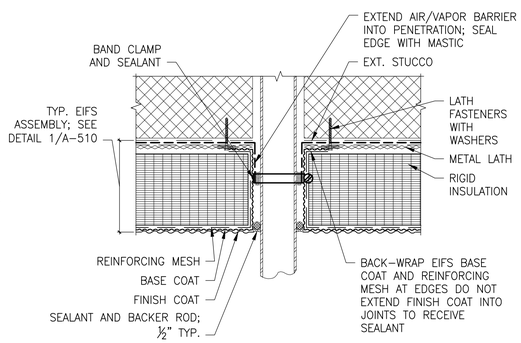
A500



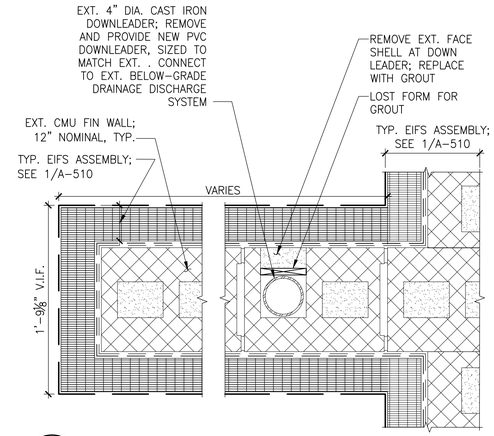
1 TYPICAL EIFS CLADDING – OVER MASONRY
3" = 1'–0"



2 TYPICAL EIFS CONTROL JOINT – PLAN DETAIL
3" = 1'–0"



3 TYPICAL PENETRATION THRU EIFS
3" = 1'–0"



4 PLAN DETAIL: FIN WALL WITH DOWNLEADER
1 1/2" = 1'–0"
NOTE: BRICK MASONRY BELOW EIFS WILL FOLLOW SIMILAR PLAN/LAYOUT

5 WALL–MOUNTED LIGHT FIXTURE
3" = 1'–0"

6 TYPICAL PIPE SUPPORT
NOTE: REFER TO DETAIL 5/A510 FOR SIMILAR FLASHING
3" = 1'–0"

7 TRELLIS ANCHORAGE
1 1/2" = 1'–0"

8 EIFS AT GRADE WITHIN MECHANICAL YARD
3" = 1'–0"

9 TYPICAL ROOF ACCESS LADDER
3"=1'–0"

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PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION
MONTGOMERY COLLEGE
GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

Project

EIFS DETAILS

Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
CEM/BSR	DSS	AS SHOWN

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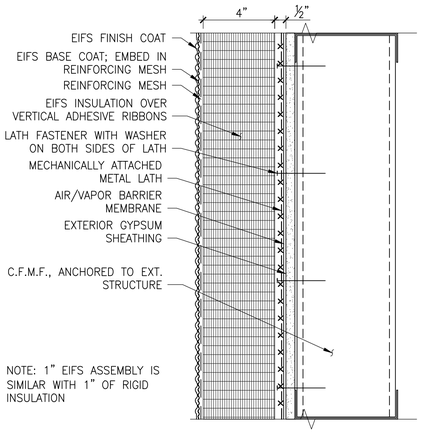
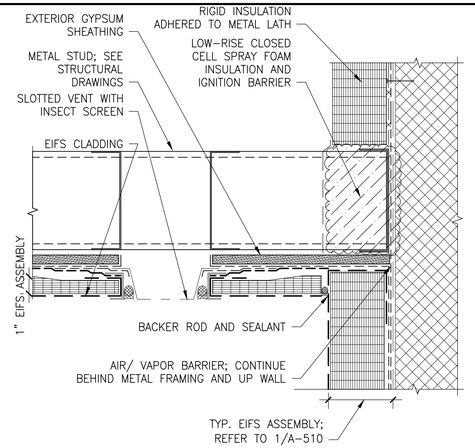
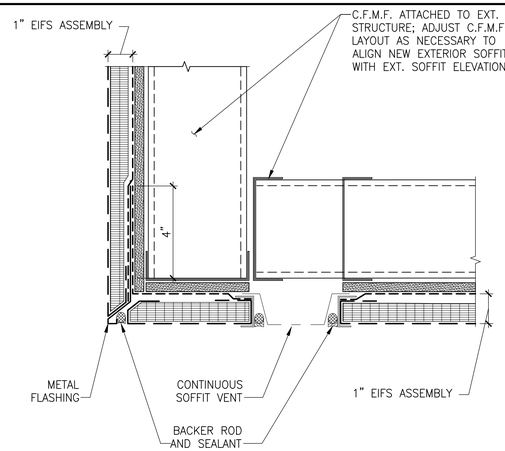
Drawing No.
A510



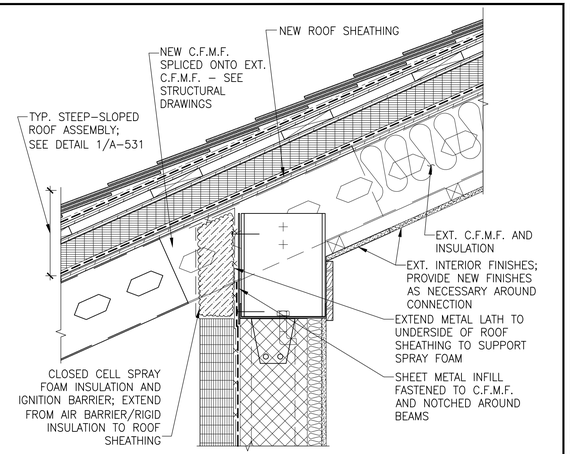
1 TYPICAL EIFS CLADDING – OVER FRAMING
3" = 1'–0"



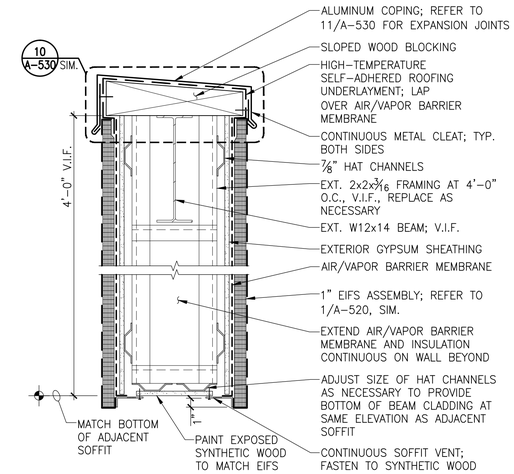
2 EIFS TRANSITION AT LOWER SOFFIT
3" = 1'–0"



3 LOWER SOFFIT OUTSIDE CORNER
3" = 1'–0"



4 LOWER SOFFIT WALL AT STEEP–SLOPE ROOF
1 1/2" = 1'–0"



5 EIFS–CLAD BEAM
1 1/2" = 1'–0"

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PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION
MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

Project

SOFFIT DETAILS

Drawing Title

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Drawn	Approved	Scale
BSR/CEM	DSS	AS SHOWN

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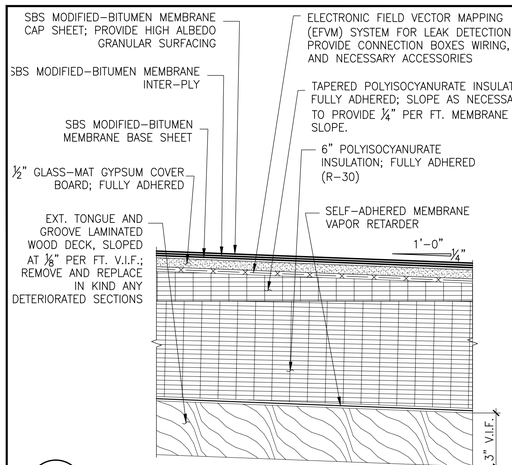
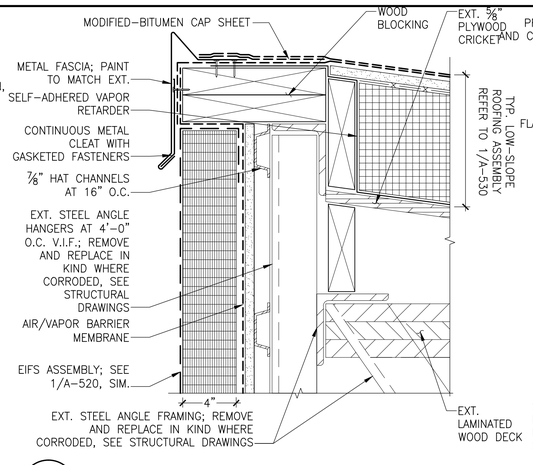
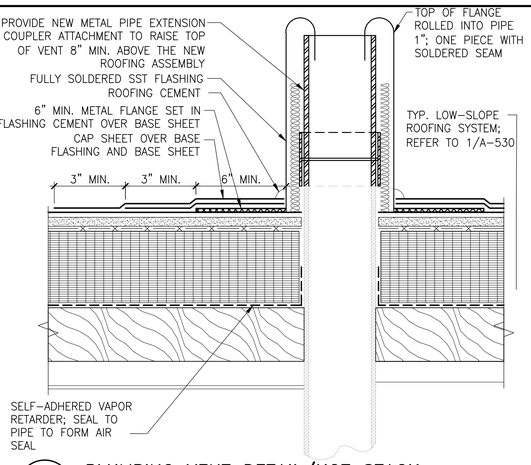
Drawing No.
A520



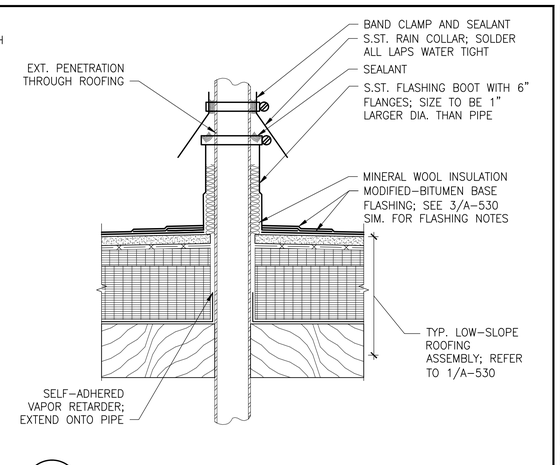
1 TYPICAL LOW–SLOPE ROOFING ASSEMBLY
3" = 1'–0"



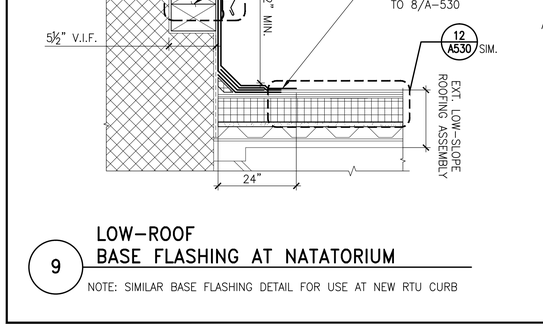
2 ROOF EDGE AT NATATORIUM UPPER SOFFIT
3"=1'–0"



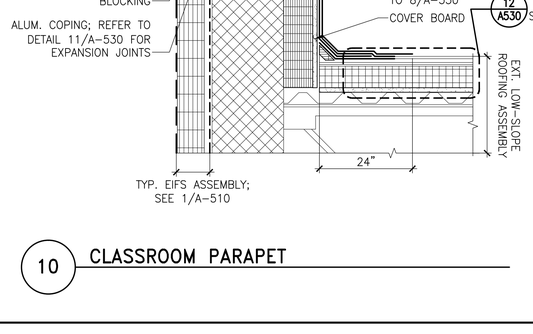
3 PLUMBING VENT DETAIL/HOT STACK
3" = 1'–0"



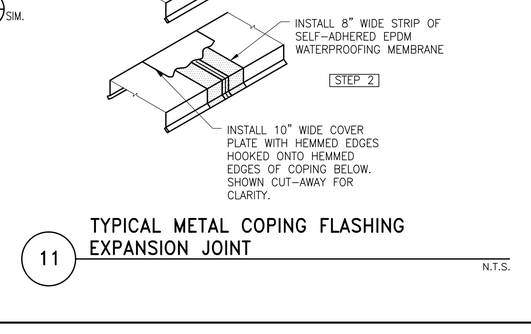
4 TYPICAL PENETRATION DETAIL
3" = 1'–0"



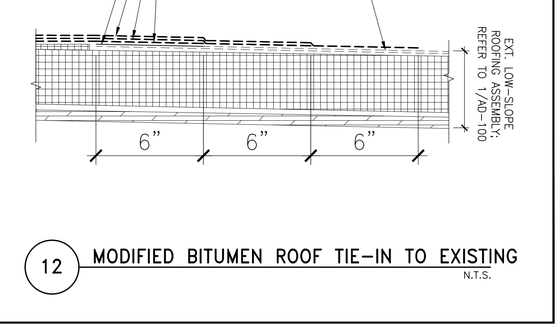
5 ROOF DRAIN DETAIL
3" = 1'–0"



6 ROOF EDGE AT GYMNASIUM UPPER SOFFIT
3"=1'–0"



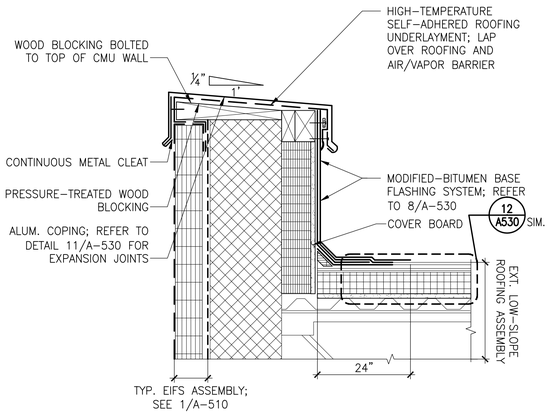
7 ROOF COUNTER–FLASHING AT EIFS
6" = 1'–0"



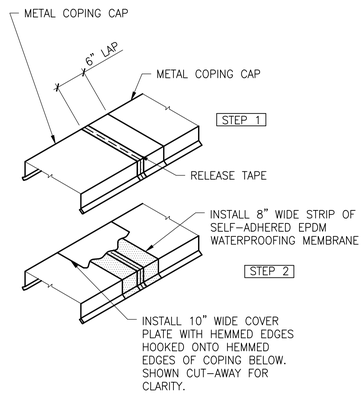
8 BASE FLASHING AT LOW ROOF

9 LOW–ROOF BASE FLASHING AT NATATORIUM

NOTE: SIMILAR BASE FLASHING DETAIL FOR USE AT NEW RTU CURB



10 CLASSROOM PARAPET



11 TYPICAL METAL COPING FLASHING EXPANSION JOINT
N.T.S.

12 MODIFIED BITUMEN ROOF TIE–IN TO EXISTING
N.T.S.

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PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION
MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

Project

LOW-SLOPE ROOFING DETAILS

Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
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Drawing No.

A530

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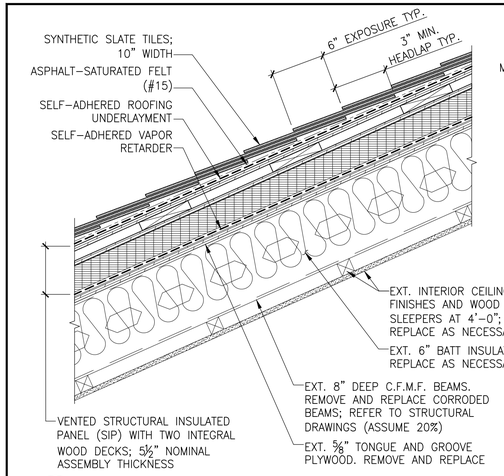
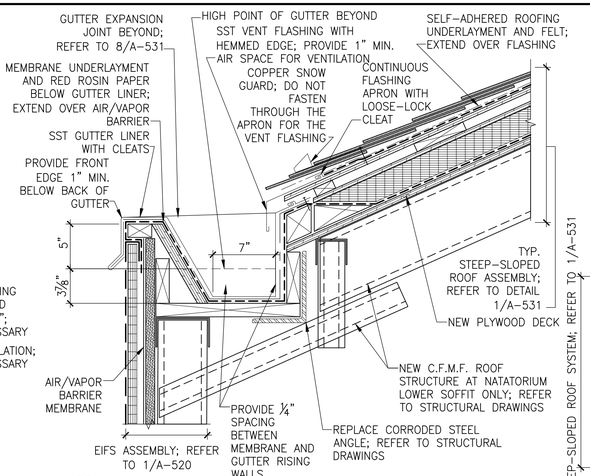


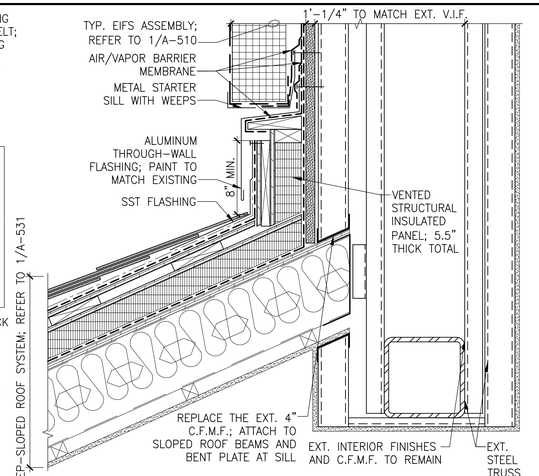
1 TYPICAL STEEP-SLOPED ROOF

1 1/2" = 1'-0"



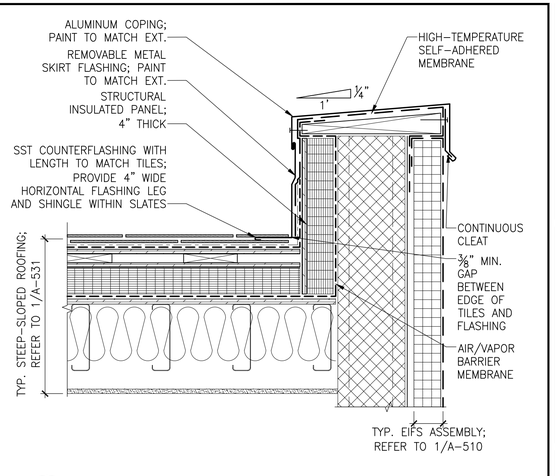
2 STEEP-SLOPED ROOF GUTTER

1 1/2" = 1'-0"



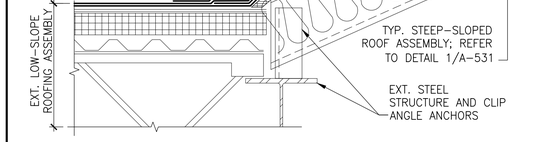
3 STEEP-SLOPED RIDGE AT RISING WALL

1 1/2" = 1'-0"



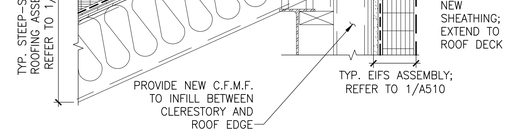
4 STEEP-SLOPED ROOF PARAPET

1 1/2" = 1'-0"



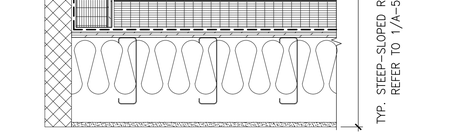
5 CLERESTORY ROOF AT LOW-SLOPED ROOF

1 1/2" = 1'-0"



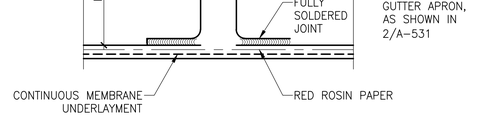
6 CLERESTORY AT UPPER ROOF EDGE

1 1/2"=1'-0"



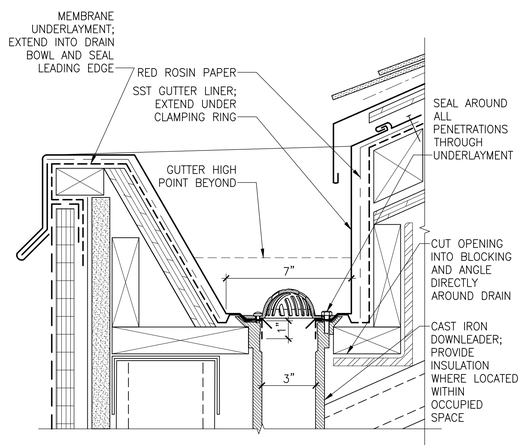
7 CLERESTORY ROOF AT RISING WALL

1 1/2"=1'-0"



8 GUTTER EXPANSION JOINT

6" = 1'-0"



9 STEEP-SLOPED ROOF GUTTER DRAIN

3" = 1'-0"

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BID SET

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1	01/22/16	Bid Set (County Response Set)	
	11/20/15	Pricing/Permit Set	
	08/28/15	100% Design Development	

PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE GERMANTOWN, MD 20876

Project

STEEP-SLOPE ROOFING DETAIL

Drawing Title

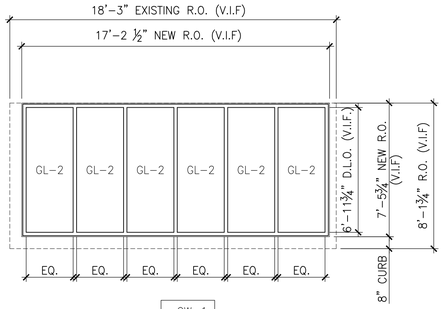
Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
GSS	DSS	AS SHOWN

STATE OF MARYLAND — PHILIP KEITH FOREMAN — No. 21484 — REGISTERED PROFESSIONAL ENGINEER

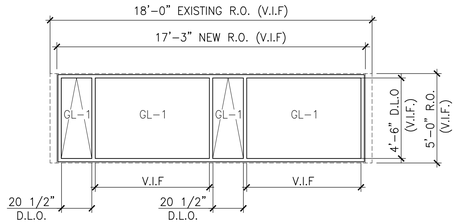
Professional Certification.
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 21484 Exp. Date: 9/1/17
Seal

Drawing No.

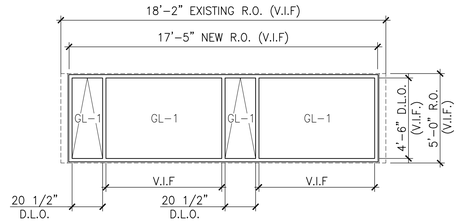
A531



CW-1



CW-2 AND CW-5



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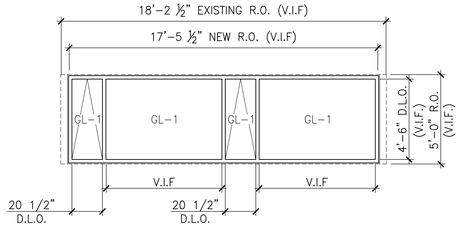
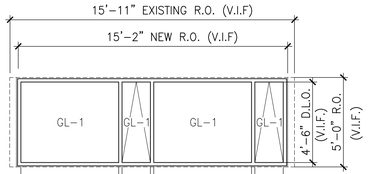


CW-4



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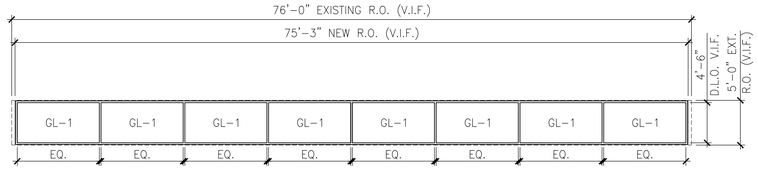

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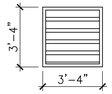


L-4

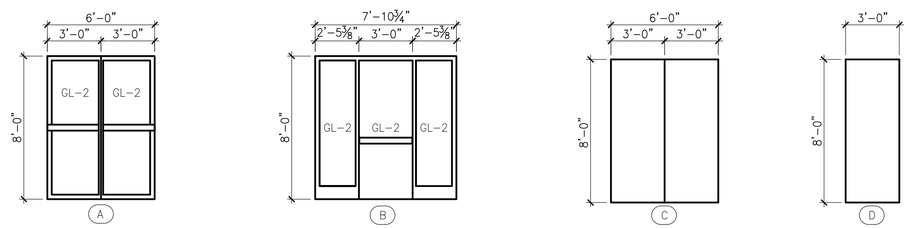
NOTE: VERIFY ALL DIMENSIONS IN FIELD

LOUVER

1/4" = 1'-0"

CURTAIN WALLS

N.T.S



NOTE: VERIFY ALL DIMENSIONS IN FIELD

DOOR TYPES

1/4" = 1'-0"

DOOR & FRAME ABBREVIATIONS

HM-HOLLOW METAL
AL-ALUMINUM
SF-STOREFRONT
CW-CURTAINWALL
PQMT-PROCUREMENT METHOD
TME-TO MATCH EXISTING
FRP-FIBER REINFORCED PLASTIC

NOTE: REFER TO EY SERIES DRAWINGS AND DIVISION 28 SPECIFICATIONS FOR INFORMATION REGARDING DOOR SECURITY

DOOR SCHEDULE

NO	LOCATION	TYPE	SIZE	DOOR LEAF MATL	DOOR LEAF PQMT	FRAME MATL	FRAME PQMT	FIRE RATING	THRESHOLD DETAILS	HEAD DETAILS	JAMB DETAILS	HARDWARE SET	EMERGENCY EXIT	REMARKS
1	LOBBY	A	6'-0" X 8'-0"	ALUM/GL	EXT.	ALUM	NEW	TME	3/A611	1/A610	TBD	440	YES	
2	LOBBY	A	6'-0" X 8'-0"	ALUM/GL	EXT.	ALUM	NEW	TME	3/A611	1/A610	TBD	442	YES	
15	ELEC. EQUP. ROOM	D	3'-0" X 8'-0"	HM	NEW	HM	EXT.	TME	EXT.	EXT.	EXT.	815	NO	
21	N. ENTRANCE	B	3'-0" X 8'-0"	ALUM/GL	NEW	ALUM	NEW	TME	3/A611	1/A611	5/A610	431	YES	
22	HALLWAY #3	C	6'-0" X 8'-0"	HM	NEW	HM	NEW	TME	3/A611	1/A611	2/A611	322	YES	
30	DRESSING ROOM	A	2'-6" X 6'-8"	HM	NEW	HM	EXT.	TME	EXT.	EXT.	EXT.	814	NO	
34	POOL MNGR. ROOM	D	3'-0" X 8'-0"	HM	NEW	HM	EXT.	TME	EXT.	EXT.	EXT.	814	NO	
35	CLASSROOM	D	3'-0" X 8'-0"	HM	NEW	HM	NEW	TME	3/A611	1/A611	TBD	816	YES	
36	LOBBY	C	6'-0" X 8'-0"	FRP	NEW	HM	EXT.	TME	EXT.	EXT.	EXT.	323	NO	PAINT EXT. FRAME
37	LOBBY	C	6'-0" X 8'-0"	HM	NEW	HM	EXT.	TME	TBD	TBD	TBD	325	YES	
38	HALLWAY #2	C	6'-0" X 8'-0"	HM	NEW	HM	EXT.	TME	EXT.	EXT.	EXT.	325	YES	
40	STORAGE #4	C	6'-0" X 8'-0"	HM	NEW	HM	NEW	TME	3/A611	5/A611	2/A611	823	NO	
41	GYMNASIUM	C	6'-0" X 8'-0"	HM	NEW	HM	NEW	TME	3/A611	5/A611	2/A611	322	YES	
42	GYMNASIUM	C	6'-0" X 8'-0"	HM	NEW	HM	NEW	TME	3/A611	5/A611	2/A611	326	YES	
43	STORAGE #3	C	6'-0" X 8'-0"	HM	NEW	HM	NEW	TME	3/A611	5/A611	2/A611	823	NO	
45	STORAGE #3	D	6'-0" X 8'-0"	HM	NEW	HM	NEW	TME	3/A611	5/A611	2/A611	813	NO	
46	GYMNASIUM	D	3'-0" X 8'-0"	HM	NEW	HM	NEW	TME	3/A611	5/A611	2/A611	312	YES	
47	MECH. ROOM #3	D	3'-0" X 8'-0"	HM	NEW	HM	NEW	TME	3/A611	5/A611	2/A611	813	NO	
48	MECH. ROOM #2	D	3'-0" X 8'-0"	HM	NEW	HM	NEW	TME	3/A611	5/A611	2/A611	813	NO	
49	GYMNASIUM	D	3'-0" X 8'-0"	HM	NEW	HM	NEW	TME	3/A611	5/A611	2/A611	312	YES	
50	MECH. ROOM #1	D	3'-0" X 8'-0"	HM	NEW	HM	NEW	TME	3/A611	5/A611	2/A611	813	NO	
51	STORAGE #2	C	6'-0" X 8'-0"	HM	NEW	HM	EXT.	TME	3/A611	EXT.	EXT.	824	NO	
52	GYMNASIUM	C	6'-0" X 8'-0"	HM	NEW	HM	EXT.	TME	3/A611	EXT.	EXT.	320	YES	
53	GYMNASIUM	C	6'-0" X 8'-0"	HM	NEW	HM	EXT.	TME	3/A611	EXT.	EXT.	320	YES	
54	STORAGE #1	C	6'-0" X 8'-0"	HM	NEW	HM	EXT.	TME	3/A611	EXT.	EXT.	824	NO	
58	HALLWAY #3	C	6'-0" X 8'-0"	FRP	NEW	HM	EXT.	TME	EXT.	EXT.	EXT.	324	YES	PAINT EXT. FRAME
61	POOL DECK	C	6'-0" X 8'-0"	FRP	NEW	FRP	NEW	TME	3/A611	2/A610	2/A611	322	YES	
63	POOL	C	6'-0" X 8'-0"	FRP	NEW	FRP	NEW	TME	3/A611	2/A610	2/A611	326	YES	
66	POOL DECK	C	6'-0" X 8'-0"	FRP	NEW	FRP	NEW	TME	3/A611	2/A610	2/A611	322	YES	
67	POOL EQUIP. ROOM	D	6'-0" X 8'-0"	FRP	NEW	FRP	NEW	TME	3/A611	2/A610	2/A611	813	NO	
70	WT. ROOM	C	6'-0" X 8'-0"	HM	NEW	HM	NEW	TME	3/A611	1/A610	TBD	322	YES	
71	WT. ROOM	C	6'-0" X 8'-0"	HM	NEW	HM	NEW	TME	3/A611	1/A610	TBD	322	YES	

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Consultant

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PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE GERMANTOWN, MD 20876

Project

FENESTRATION ELEVATIONS

Drawing Title

Project No.	Checked	Date
150049.01	PKF	01/22/16
Drawn	Approved	Scale
CEM/BSR	DSS	AS SHOWN

Drawing No.

A600

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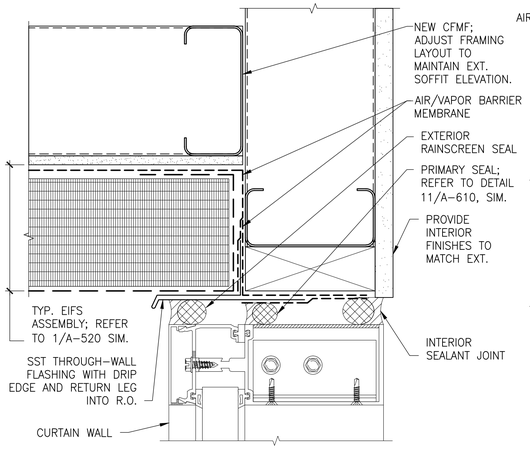
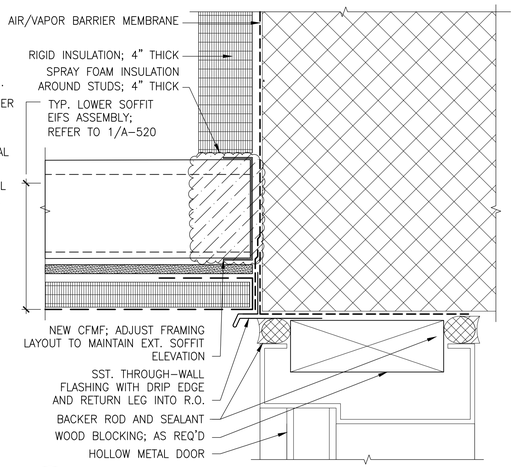
Seal



1 CURTAIN WALL HEAD DETAIL, TYP.

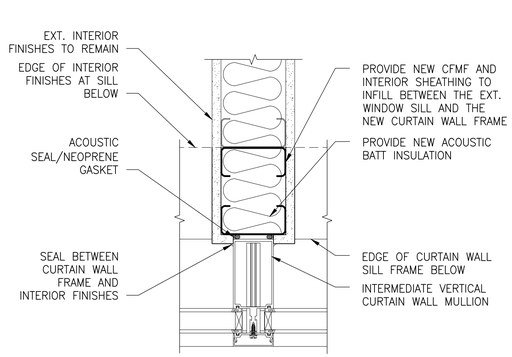
6"=1'-0"

NOTE: INTERIOR TRIM NOT SHOWN FOR CLARITY. PROVIDE INTERIOR ALUMINUM TRIM OR INTERIOR FINISHES WORK REQUIRED TO MATCH EXISTING; TYPICAL.



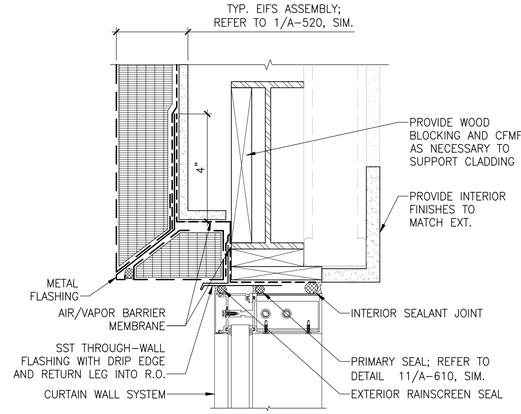
2 TYP. HOLLOW METAL DOOR HEAD

6"=1'-0"



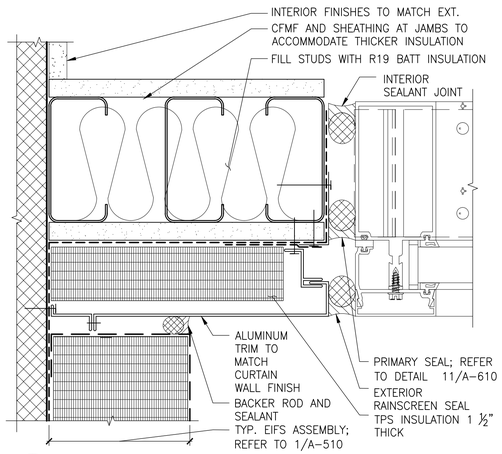
3 CURTAIN WALL MULLION AT PARTITION

3" = 1'-0"



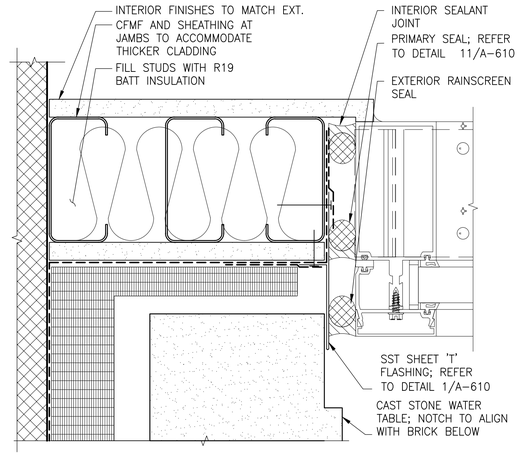
4 CLERESTORY WINDOW HEAD DETAIL

3"=1'-0"



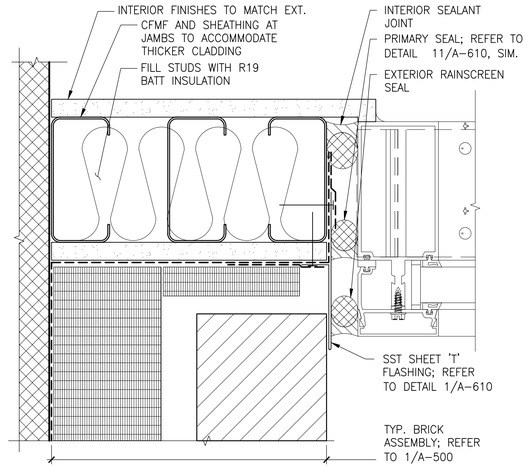
5 CURTAIN WALL JAMB DETAIL, TYP.

6"=1'-0"



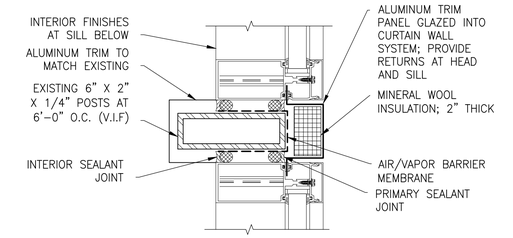
6 ENTRY CURTAIN WALL JAMB AT CAST STONE

6" = 1'-0"



7 ENTRY CURTAIN WALL JAMB AT BRICK

6" = 1'-0"



8 CLERESTORY INTERMEDIATE JAMB

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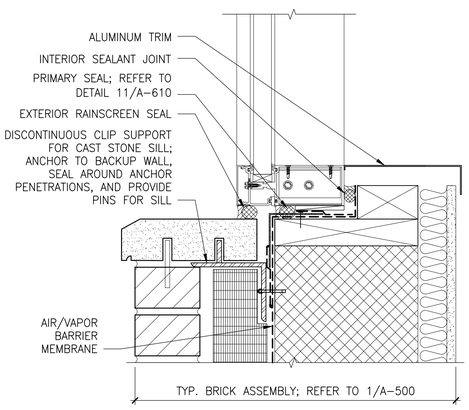
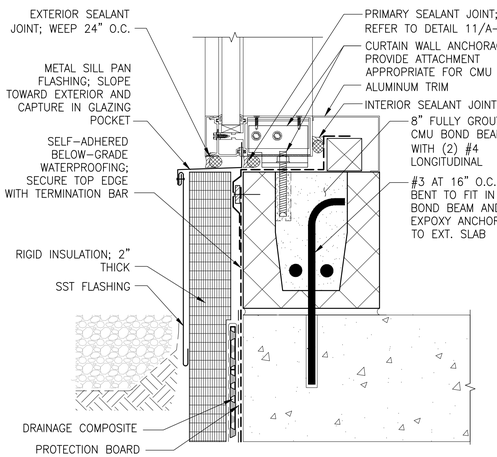


9 CURTAIN WALL SILL DETAIL, TYP.

3" = 1'-0"



10 CURTAIN WALL SILL DETAIL AT GRADE

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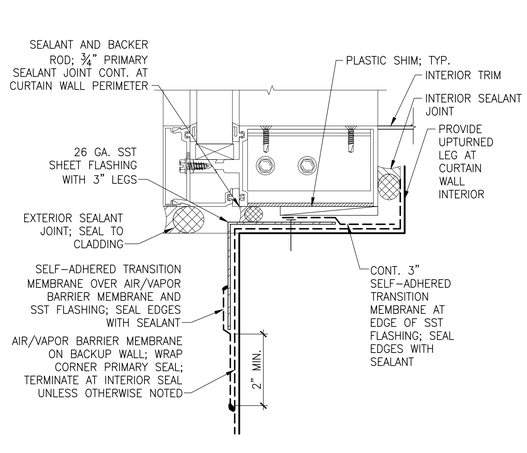
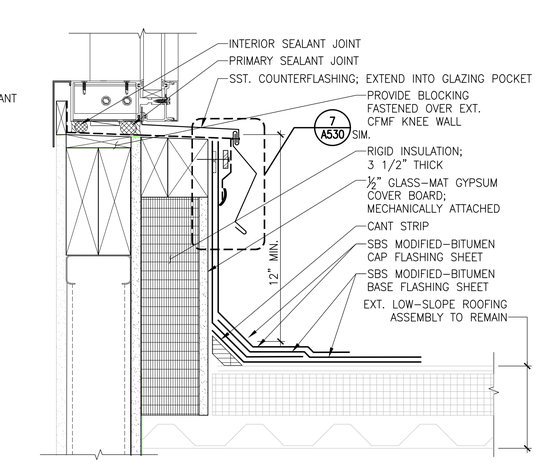


11 PRIMARY SEAL DETAIL

6" = 1'-0"



12 CLERESTORY WINDOW SILL

3"=1'-0"

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Project

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Drawing No.

A610

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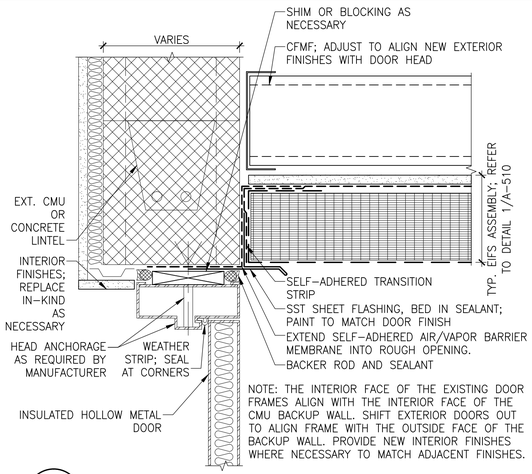
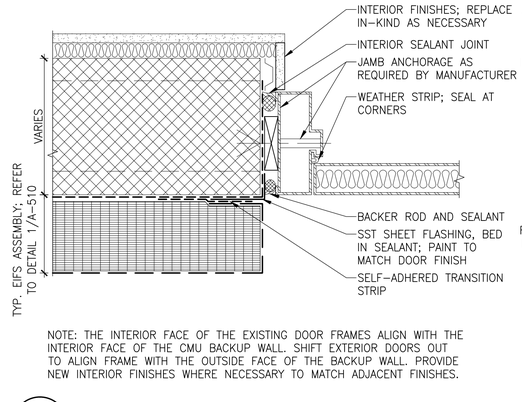
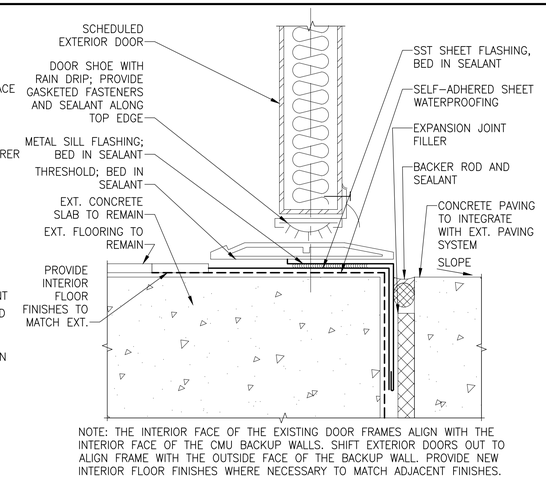


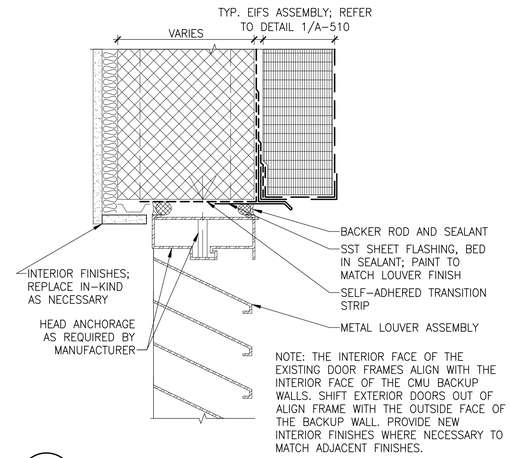
1 HOLLOW METAL DOOR HEAD AT SOFFIT
3" = 1'-0"



2 TYP. HOLLOW METAL DOOR JAMB AT EIFS
3" = 1'-0"



3 TYP. DOOR THRESHOLD DETAIL
6" = 1'-0"



4 TYP. LOUVER HEAD
3" = 1'-0"

5 TYP. DOOR HEAD AT EXT. WALL
3" = 1'-0"

6 TYP. LOUVER SILL
3" = 1'-0"

7 TYP. DOOR JAMB AT BRICK
3" = 1'-0"

8 HOLLOW METAL DOOR JAMB AT WEIGHT ROOM
3" = 1'-0"

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Drawing No.
A611

GENERAL STRUCTURAL NOTES

PART 1 – GENERAL REQUIREMENTS AND DESIGN CRITERIA

1.1 SPECIFICATIONS

A. REFER TO PROJECT SPECIFICATIONS FOR DETAILED REQUIREMENTS FOR MATERIAL AND WORKMANSHIP.THE WORK SHOWN ON THESE DRAWINGS ADDRESSES STRUCTURAL INFORMATION ONLY. THE STRUCTURAL DOCUMENTS INCLUDE THESE S–SERIES DRAWINGS AND GENERAL NOTES. THESE ARE NO TECHNICAL SPECIFICATIONS IN ADDITION TO THESE GENERAL NOTES.

1.2 ELEVATIONS & DIMENSIONS

A. ALL ELEVATIONS AND DIMENSIONS SHOWN FOR NEW CONSTRUCTION ARE BASED ON THE ORIGINAL CONSTRUCTION DRAWINGS FOR THE EXISTING BUILDING. FIELD VERIFY ALL ELEVATIONS AND DIMENSIONS BEFORE PROCEEDING WITH CONSTRUCTION.

1.3 BUILDING CODES AND STANDARDS

A. THE FOLLOWING BUILDING CODES AND STANDARDS, INCLUDING ALL SPECIFICATIONS REFERENCED WITHIN, SHALL APPLY TO THE DESIGN, CONSTRUCTION, QUALITY CONTROL AND SAFETY OF ALL WORK PERFORMED ON THE PROJECT.
   1. "MONTGOMERY COUNTY EXECUTIVE REGULATION ER8–12," OFFICE OF THE COUNTY EXECUTIVE, MONTGOMERY COUNTY, MD.
   2. "INTERNATIONAL BUILDING CODE – 2015", INTERNATIONAL CODE COUNCIL, INCLUDING LOCAL JURISDICTION AMENDMENTS.
   3. "INTERNATIONAL EXISTING BUILDING CODE – 2012", INTERNATIONAL CODE COUNCIL, INCLUDING LOCAL JURISDICTION AMENDEMENTS.
   4. "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES", (ANSI/ASCE 7 – 10, 2010), AMERICAN SOCIETY OF CIVIL ENGINEERS.

B. ADDITIONAL CODES AND STANDARDS FOR DIFFERENT MATERIALS ARE LISTED IN THE SECTIONS THAT FOLLOW.

1.4 DESIGN LOADS

A. ROOF LIVE LOADS
   1. MINIMUM LIVE LOAD: 20 PSF

B. SNOW LOAD – PLUS DRIFTING AND SLIDING WHERE APPLICABLE
   1. PG = 30 PSF
   2. PF = 30 PSF (MINIMUM)
   3. CE = 1.0
   4. I = 1.0
   5. CT = 1.0

C. SUPERIMPOSED DEAD LOADS (IN ADDITION TO STRUCTURE SELF–WEIGHT):
   1. LOW ROOFS:
      EXISTING: 9 PSF (1" THICK CLAY TILE AND PLYWOOD)
      NEW: 7 PSF (1/4" THICK SYNTHETIC SLATE AND SIP DECKING)
   2. HIGH ROOFS:
      EXISTING: 10 PSF (GRAVEL SURFACING, BUILT–UP ROOFING MEMBRANE, INSULATION)
      NEW: 5 PSF (EXPOSED MODIFIED BITUMEN ROOFING, COVERBOARD, INSULATION)

D. WIND LOAD PARAMETERS
   1. BASIC WIND SPEED (3–SECOND GUST), V = 115 MPH
   2. RISK CATEGORY = II
   3. EXPOSURE CATEGORY: C
   4. INTERNAL PRESSURE COEFFICIENT: GC(PI) = +/– 0.18
   5. EXISTING BUILDINGS: THE SCOPE OF WORK ON THIS PROJECT DOES NOT CHANGE THE DEMAND UPON NOR REDUCE THE RESISTANCE PROVIDED BY THE EXISTING WIND FORCE RESISTING SYTEMS (WFRS) BY MORE THAN 5%. BASED ON IEBC REQUIREMENTS, NO EVALUATION OR UPGRADE OF THE EXISTING WFRS HAS BEEN CONDUCTED.
   6. COMPONENTS AND CLADDING
      a. ACTUAL PRESSURE(S) ON EVERY COMPONENT AND CLADDING ELEMENT SHALL BE DETERMINED BY THE CONTRACTOR'S SPECIALTY PROFESSIONAL ENGINEER, LICENSED IN THE PROJECT'S JURISDICTION, WHO IS RESPONSIBLE FOR THE STRUCTURAL DESIGN OF SUCH ELEMENT(S). PRESSURE VALUES LISTED BELOW ARE FOR REFERENCE ONLY. "+" INDICATES INWARD PRESSURE; "–" INDICATES OUTWARDS PRESSURE.
      b. REFERENCE PRESSURES FOR ROOFS:
         (I.) ZONE 1: +12 PSF; –35 PSF
         (II.) ZONE 2: +12 PSF; –58 PSF
         (III.) ZONE 3: +12 PSF; –87 PSF
         (IV.) ZONE 2 OVERHANG: –58 PSF
         (V.) ZONE 3 OVERHANG: –87 PSF
      c. REFERENCE PRESSURES FOR WALLS (INCLUDING SOFFIT AT UPPER ROOF OVERHANGS):
         (I.) ZONE 4: +32 PSF; –34 PSF
         (II.) ZONE 5: +32 PSF; –42 PSF
      d. SEISMIC LOAD PARAMETERS
         (I.) EXISTING BUILDINGS: THE SCOPE OF WORK ON THIS PROJECT DOES NOT CHANGE THE SEISMIC DEMAND UPON NOR REDUCE THE RESISTANCE PROVIDED BY THE EXISTING SEISMIC FORCE RESISTING SYSTEMS (SFRS) BY MORE THAN 5%. BASED ON IEBC REQUIREMENTS, NO EVALUATION OR UPGRADE OF THE EXISTING SFRS HAS BEEN CONDUCTED.

PART 2 – CONSTRUCTION

2.1 GENERAL

A. UNAUTHORIZED REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RE–SUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.

B. THESE DRAWINGS REPRESENT THE COMPLETED PROJECT WHICH HAS BEEN DESIGNED FOR THE WEIGHTS OF MATERIALS, FOR THE SUPERIMPOSED LOADS INDICATED IN THE DESIGN LOAD CRITERIA ABOVE, AND FOR LOADS INDICATED ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSE WORK, STAGING, BRACING, SHEETING AND SHORING, ETC.

C. DEVELOPING AND IMPLEMENTING JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

D. ALL COSTS OF INVESTIGATION AND REDESIGN DUE TO CONTRACTOR MIS–LOCATION OF STRUCTURAL ELEMENTS OR OTHER LACK OF CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS SHALL BE AT THE CONTRACTOR'S EXPENSE.

E. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS, SLEEVES, INSERTS AND DEPRESSIONS.

F. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DETAILED INFORMATION REGARDING FINISHES, WATERPROOFING, FIREPROOFING, ETC.

G. IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES AND THE DETAILS, THE MOST STRINGENT SHALL GOVERN.

H. WORK IN SOME AREAS IS NOT EXPLICITLY DETAILED ON THE DRAWINGS BUT IS IMPLIED TO BE SIMILAR TO CORRESPONDING AREAS. WORK IN THESE AREAS SHALL BE THE SAME AS THAT SHOWN AT THE CORRESPONDING LOCATIONS.

2.2 SHOP DRAWINGS

A. SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS ARE REQUIRED TO BE SUBMITTED BY THE CONTRACTOR AND REVIEWED BY THE STRUCTURAL ENGINEER. IF A CONTRACTOR OR OWNER FAILS TO SUBMIT THE SHOP DRAWINGS, SIMPSON GUMPERTZ & HEGER INC. WILL NOT BE RESPONSIBLE FOR THE STRUCTURAL CERTIFICATION AND DESIGN OF THE PROJECT.

B. SHOP DRAWINGS SHALL BE SUBMITTED ELECTRONICALLY IN PORTABLE DOCUMENT FORMAT (PDF). A MARKED–UP PDF COPY OF THE SHOP DRAWINGS WITH THE STRUCTURAL ENGINEER'S COMMENTS WILL BE RETURNED TO THE CONTRACTOR.

C. ALLOW 10 BUSINESS DAYS FOR STRUCTURAL REVIEW OF SHOP DRAWINGS. THIS TIME SHOULD BE ALLOTTED IN THE CONTRACTOR'S SCHEDULE

D. SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL WHICH SHALL CONSTITUTE CERTIFICATION THAT THEY HAVE VERIFIED ALL FIELD MEASUREMENTS, CONSTRUCTION CRITERIA, MATERIALS AND SIMILAR DATA AND HAVE CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.

E. THE CONTRACTOR SHALL SUBMIT FOR REVIEW, SIGNED AND SEALED DRAWINGS AND CALCULATIONS PREPARED BY A SPECIALTY STRUCTURAL ENGINEER REGISTERED IN THE PROJECTS JURISDICTION FOR THE FOLLOWING ASSEMBLIES. THIS REVIEW SHALL BE FOR GENERAL CONFORMANCE WITH THE PROJECT'S PARAMETERS AS INDICATED ON THE DRAWINGS, SPECIFICATIONS AND GENERAL NOTES. THE DESIGN OF THESE ASSEMBLIES IS THE RESPONSIBILITY OF THE CONTRACTOR'S ENGINEER WHO HAS SIGNED AND SEALED THESE DRAWINGS AND CALCULATIONS. THESE SUBMISSIONS SHALL BE MADE AVAILABLE IN CONJUNCTION WITH OR PRIOR TO THE SHOP DRAWING FOR THE PRIMARY BUILDING STRUCTURE THAT SUPPORT THESE ASSEMBLIES.
   1. NON–STRUCTURAL COLD FORMED STEEL STUD SYSTEMS, OTHER SYSTEMS WHERE INDICATED, AND RELATED CONNECTIONS:
      a. DESIGNS SHALL TAKE INTO ACCOUNT ALL VERTICAL AND LATERAL LOADS REQUIRED BY APPLICABLE CODES AND STANDARDS. LIMIT DEFLECTION TO THE LESSER OF SPAN/360 AND 0.50" FOR THE APPLICABLE DESIGN WIND LOAD. THE SUBMITTED DRAWINGS AND CALCULATIONS SHALL CLEARLY SHOW THE LOAD PATH AND THE REACTIONS AS APPLIED TO THE MAIN BUILDING STRUCTURE.
   2. TEMPORARY BRACING/SHORING OF EXISTING CONSTRUCTION. CONTRACTOR AND SPECIALTY ENGINEER SHALL DETERMINE THE NEED FOR AND EXTENT OF SHORING AND BRACING.

2.3 EXISTING CONDITIONS

EXISTING BUILDING INFORMATION SHOWN IS BASED ON EXISTING BUILDING DRAWINGS, FIELD OBSERVATIONS, OR AS INDICATED ON THE ARCHITECTURAL DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL EXISTING BUILDING INFORMATION SHOWN (DIMENSIONS, ELEVATIONS, ETC.) AND NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES.

PART 3 – STRUCTURAL STEEL

3.1 CODES AND STANDARDS:

A. "THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", AISC 360, AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 2010.

B. "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", AISC 303, AMERICAN INSTITUTE OF STEEL CONSTRUCTION, 2010.

C. "SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS", RESEARCH COUNCIL FOR STRUCTURAL CONNECTIONS.

D. "STRUCTURAL WELDING CODE – STEEL", AWS D1.1, AMERICAN WELDING SOCIETY.

3.2 DESIGN GUIDES:

A. "STEEL CONSTRUCTION MANUAL", FOURTEENTH EDITION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., 2010.

3.3 STRUCTURAL SHAPES:

A. ANGLES, PLATES: ASTM A36

3.4 FASTENERS, CONNECTORS:

A. HIGH STRENGTH BOLTS: ASTM A325–N (UNLESS DETAILED OTHERWISE) TENSION–CONTROL BOLTS ACCEPTABLE.

B. SMOOTH OR THREADED ROD: ASTM A36

C. WELDING ELECTRODES: CONFORM TO AWS SPECIFICATIONS FOR ELECTRODES BASED ON WELDING PROCESS AND THE TYPE AND GRADE OF STEEL. E70XX ELECTRODES (MIN.) FOR FILLET WELDS.

3.5 FABRICATION:

A. SHOP FABRICATE TO GREATEST EXTENT POSSIBLE. SUBMIT COMPLETE SHOP DRAWINGS FROM FIELD DIMENSIONS FOR THE ARCHITECT'S APPROVAL OF ALL STRUCTURAL STEEL PRIOR TO FABRICATION.

3.6 ERECTION:

A. DO NOT FIELD CUT OR FIELD MODIFY ANY STRUCTURAL STEEL WITHOUT PRIOR WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER FOR EACH SPECIFIC CASE.

B. THE GENERAL CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY FABRICATION OR ERECTION ERRORS OR DEVIATIONS AND RECEIVE WRITTEN APPROVAL BEFORE ANY FIELD CORRECTIONS ARE MADE. GAS CUTTING TORCHES SHALL NOT BE USED TO CORRECT FABRICATION ERRORS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.

C. PERMANENT FRAMING AND FINAL CONECTION DETAILS ARE SHOWN ON THE DRAWINGS. THE FABRICATOR AND ERECTOR ARE RESPONSIBLE FOR THE DESIGN OF TEMPORARY BRACING AND RECOMMEND ERETION PROCEDURES.

3.7 CONNECTIONS:

A. ALL SHOP AND FIELD CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS OR WELDS. ALL HIGH STRENGTH BOLTS AND NUTS SHALL BE CLEARLY MARKED AS REQUIRED BY AISC SPECIFICATION. CONNECTIONS MADE WITH UNMARKED BOLTS AND NUTS WILL BE REJECTED.

B. PROVIDE ACCESS FOR INSPECTION OF ALL SHOP AND FIELD CONNECTIONS FOR PROPOER MATERIAL AND WORKMANSHIP.

C. CONTRACTOR NOTE: ALTERNATE CONNECTION DESIGNS ARE NOT PERMITTED.

D. UNLESS DETAILED OTHERWISE, ALL A325 BOLTS SHALL BE TIGHTENED TO THE 'SNUG TIGHT' CONDITION DEFINED AS THE TIGHTNESS ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH. THE SNUG TIGHT CONDITION MUST ENSURE THAT THE PLIES OF THE CONNECTED MATERIALS HAVE BEEN BROUGHT INTO SNUG CONTACT.

E. WHEN INSTALLING POST–INSTALLED FASTENERS (ADHESIVE ANCHORS, EXPANSION ANCHORS, ETC.), THE CONTRACTOR SHALL TAKE MEASURES TO AVOID DRILLING OR CUTTING OF ANY EXISTING REINFORCING STEEL AND DESTRUCTION OF CONCRETE AND MASONRY. ALL FASTENERS SHALL BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS AND RELEVANT ICC–ES ESR.

F. WELDING ELECTRODES, WELDING PROCESS, MINIMUM PREHEAT AND INTERPASS TEMPERATURES SHALL BE IN ACCORDANCE WITH THE AISC AND AWS SPECIFICATIONS. ANY STRUCTURAL DAMAGED IN WELDING IS TO BE REPLACED OR REINFORCED AS ACCEPTABLE TO THE STRUCTURAL ENGINEER.

G. WELDERS SHALL HAVE CURRENT EVIDENCE OF PASSING THE APPROPRIATE AWS QUALIFICATION TESTS. THE ENGINEER MAY REQUEST SUCH EVIDENCE AT ANY TIME DURING THE PROJECT.

3.8 STEEL FINISH:

A. ALL STRUCTURAL STEEL THAT IS LOCATED IN EXTERIOR UNHEATED SPACES AND WHICH IS EXPOSED FOR AESTHETICS, INCLUDING STEEL DIRECTLY EXPOSED TO WEATHER, SHALL BE POWER–TOOLED CLEANED AND PAINTED OR GALVANIZED ACCORDING TO DETAILS AND ARCHITECT'S SPECIFICATIONS.

3.9 INSPECTION AND TESTING:

A. THE OWNER SHALL ENGAGE A TESTING AGENCY TO PROVIDE SERVICES AS INDICATED BELOW AND SUBMIT REPORTS.

B. STRUCTURAL STEEL:
   1. VISUALLY INSPECT ALL FILLET WELDS, BOLTED CONNECTIONS AND POST–INSTALLED FASTENERS.
   2. TEST ANY WELD WHICH EXHIBITS UNUSUAL CONDITIONS OR POOR QUALITY DURING VISUAL EXAMINATION.
   3. WELDING INSPECTION AND TESTING PROCEDURES SHALL BE IN ACCORDANCE WITH THE AWS D1.1.

PART 4 – STRUCTURAL COLD FORMED STEEL FRAMING

4.1 CODES:

A. "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD–FORMED STEEL STRUCTURAL MEMBERS", AMERICAN IRON AND STEEL INSTITUTE.

B. "STANDARD FOR COLD–FORMED STEEL FRAMING – GENERAL PROVISIONS", AMERICAN IRON AND STEEL INSTITUTE.

4.2 MATERIALS:

A. STEEL SHEET: ASTM A 1003, STRUCTURAL GRADE, TYPE H, METALLIC COATED, ST33H GRADE MINIMUM, AND G90 COATING WEIGHT

B. STEEL SHEET FOR CLIPS AND ACCESSORIES: ASTM A 653, STRUCTURAL STEEL, G90 ZINC COATED, GRADE 50 CLASS 1 OR 2.

4.3 ANCHORS, CLIPS, AND FASTENERS

A. STEEL SHAPES AND CLIPS: ASTM A 36, HOT–DIP GALVANIZED ACCORDING TO ASTM A123.

B. MECHANICAL FASTENERS: ASTM C1513, CORROSION–RESISTANT–COATED, SELF–DRILLING, SELF–TAPPING STEEL DRILL SCREWS.
   1. HEAD TYPE: LOW–PROFILE HEAD BENEATH SHEATHING, MANUFACTURERE'S STANDARD ELSEWHERE.

C. WELDING ELECTRODES: COMPLY WITH AWS STANDARDS.

4.4 FRAMING SIZES:

A. FRAMING MEMBERS SHALL BE OF THE TYPE AND GAUGE CALLED FOR ON THE DRAWINGS AND IN THE SPECIFICATIONS.

4.5 GENERAL:

A. SUBMIT SHOP DRAWINGS FOR ALL COLD–FORMED STEEL FRAMING SYSTEMS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

B. MEMBER DESIGNATIONS AND PROPERTIES ARE BASED ON STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA) STANDARDS.. FRAMING SUPPLIED TO THE PROJECT SHALL EQUAL OF EXCEED THE PROPERTIES INDICATED BY SSMA FOR A PARTICULAR MEMBER DESIGNATION, SUBJECT TO APPROVAL BY THE ARCHITECT AND STRUCTRUAL ENGINEER.

C. CONTENTS OF THESE STRUCTURAL DOCUMENTS SHOW THE INTENDED APPLICATION OF COLD–FORMED FRAMING COMPONENTS.

D. ALL DIMENSIONS SHOWN ON THE STRUCTURAL DOCUMENTS SHALL BE VERIFIED WITH THE ARCHITECTURAL DOCUMENTS PRIOR TO CONSTRUCTION OR FABRICATION.

E. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR AS REQUIRED FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE POSITIVELY HELD IN PLACE UNTIL PROPERLY FASTENED.

F. ALL FIELD CUTTING OF COLD FORMED STEEL MUST BE DONE BY SAWING OR SHEARING. TORCH CUTTING IS NOT PERMITTED.

G. SPLICES IN STUDS, JOISTS, OR OTHER STRUCTURAL MEMBERS ARE NOT PERMITTED.

H. ALL STRUCTURAL COLD–FORMED STEEL FRAMING MEMBERS (EXCLUDING STUDS) SHALL BE UN–PUNCHED UNLESS SPECIFICALLY NOTED OTHERWISE.

I. CONNECTIONS SHALL BE BY WELDING, SCREWING, OR OTHER APPROVED FASTENING DEVICES OR METHODS PROVIDING POSITIVE ATTACHMENT AND RESISTANCE TO LOOSENING. FASTENERS SHALL BE OF COMPATIBLE MATERIAL. WHENEVER POSSIBLE, CONNECTIONS SHALL FOLLOW THE RECOMMENDATIONS MADE BY THE METAL LATH AND STEEL FRAMING ASSOCIATION. THE CONTRACTOR SHALL COFIRM THAT THE FASTENERS THEY INTEND TO USE MEETS OR EXCEEDS THE DESIGN VALUES SHOWN IN THE SUBMITTED CALCULATIONS.

J. TOUCH–UP ALL WELDS (IF USED) WITH ZINC RICH PAINT.

K. FOR FASTENERS PROVIDE THE MINIMUM CLEARANCES, FASTENER SPACING, AND EDGE DISTANCE AS NOTED BELOW, UNLESS OTHERWISE NOTED OR DETAILED:

FASTENER TYPE	SPACING	EDGE DISTANCE
1. SCREWS	½ IN.	½ IN.
2. POWDER DRIVEN FASTENERS (STEEL)	1½ IN.	½ IN.
3. POWDER DRIVEN FASTENERS (CONCRETE)	4 IN.	3 IN.

L. ALTERNATE CONNECTION DESIGNS ARE NOT PERMITTED.

M. DESIGN OF TEMPORARY BRACING SHALL BE BY THE FABRICATOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED BEARING THE ENGINEER'S SEAL AND SIGNATURE. REFER TO SECTION 2.2.E.

PART 5 – WOOD FRAMING

5.1 CODES:

A. "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" WITH SUPPLEMENT, 2005, AMERICAN FOREST AND PAPER ASSOCIATION.

B. "PERFORMANCE STANDARD AND POLICIES FOR STRUCTURAL USE PANELS", PRP–108, AMERICAN PLYWOOD ASSOCIATION.

5.2 MATERIALS:

A. SAWN LUMBER: ALL SAWM LUMBER SHALL HAVE 19% MAXIMUM MOISTURE CONTENT AND SHALL BE #2 GRADE SOUTHERN PINE MINIMUM.

B. TONGUE AND GROOVE WOOD DECKING: MATCH SIZE, SPECIES (DOUGLAS FIR LARCH PER EXISTING DRAWINGS) AND APPEARANCE GRADE OF EXISTING. FACE–NAIL EA. END OF EA. COURSE TO SUPPORT WITH 60d NAIL AND TOE–NAIL W/ 40d. SPIKE COURSES TOGETHER AT 18" MAX.

C. APA PERFORMANCE RATED PLYWOOD PANELS:
   1. PLYWOOD ROOF SHEATHING – 19/32 IN. THICK, EXPOSURE 1, SPAN RATING 40/20

5.3 SAWN LUMBER:

A. MEMBERS SHALL BE SET WITH CROWN SIDE UP AND HAVE A MINIMUM 3 IN. BEARING.

B. ALL BOLTS AND LAG SCREWS SHALL BE FITTED WITH GALVANIZED, MALLEABLE IRON OR STEEL PLATE WASHERS.

5.4 PLYWOOD PANELS:

A. FACTORY–MARK EACH CONSTRUCTION PANEL WITH APA TRADEMARK INDICATING COMPLIANCE WITH GRADE REQUIREMENTS.

B. INSTALL PANELS WITH FACE GRAIN PERPENDICULAR TO THE SUPPORTING MEMBERS, UNLESS DETAILED OTHERWISE.

5.5 WOOD PRESERVE TREATMENT:

A. WHERE LUMBER OR PLYWOOD IS INDICATED AT 'TREATED', COMPLY WITH APPLICABLE REQUIREMENTS OR AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARDS U1 AND T1. MARK EACH TREATED ITEM WITH THE AWPA QUALITY MARK REQUIREMENTS.

B. PRESSURE TREAT ABOVE–GROUND ITEMS WITH WATERBORNE PRESERVATIVES FOR USE CATEGORY UC3B. AFTER TREATMENT, KILN–DRY LUMBER TO A MAXIMUM MOSITURE CONTENT OF 10 PERCENT.

C. TREAT INDICATED ITEMS AND WOOD SILLS, LEDGERS, BLOCKING, AND SIMILAR MEMBERS IN CONTACT WITH MASONRY OR CONCRETE OR EXPOSED TO THE ATMOSPHERE.

5.6 FASTENERS:

A. NAILS: COMMON WIRE, GALVANIZED.

B. BOLTS: ASTM A307 FOR ALL WOOD–TO–WOOD AND COLD–FORMED STEEL–TO–WOOD CONNECTIONS.

C. SCREWS: ASME B18.6.1 FOR ALL WOOD–TO–WOOD AND WOOD–TO–STEEL CONNECTIONS.

D. CONNECTORS: SIMPSON STRONG–TIE OR APPROVED EQUIVALENT WITH ZMAX (ASTM A653 G185) COATING.

Professional Certification.
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 43266 Exp Date: 3/16/17

Seal

SIMPSON GUMPERTZ & HEGER
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Consultant

BID SET

No.	Date	Description	By
1	01/22/16	Bid Set (County Response Set)	
	11/20/15	Pricing/Permit Set	
	08/28/15	100% Design Development	

PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE GERMANTOWN, MD 20876

Project

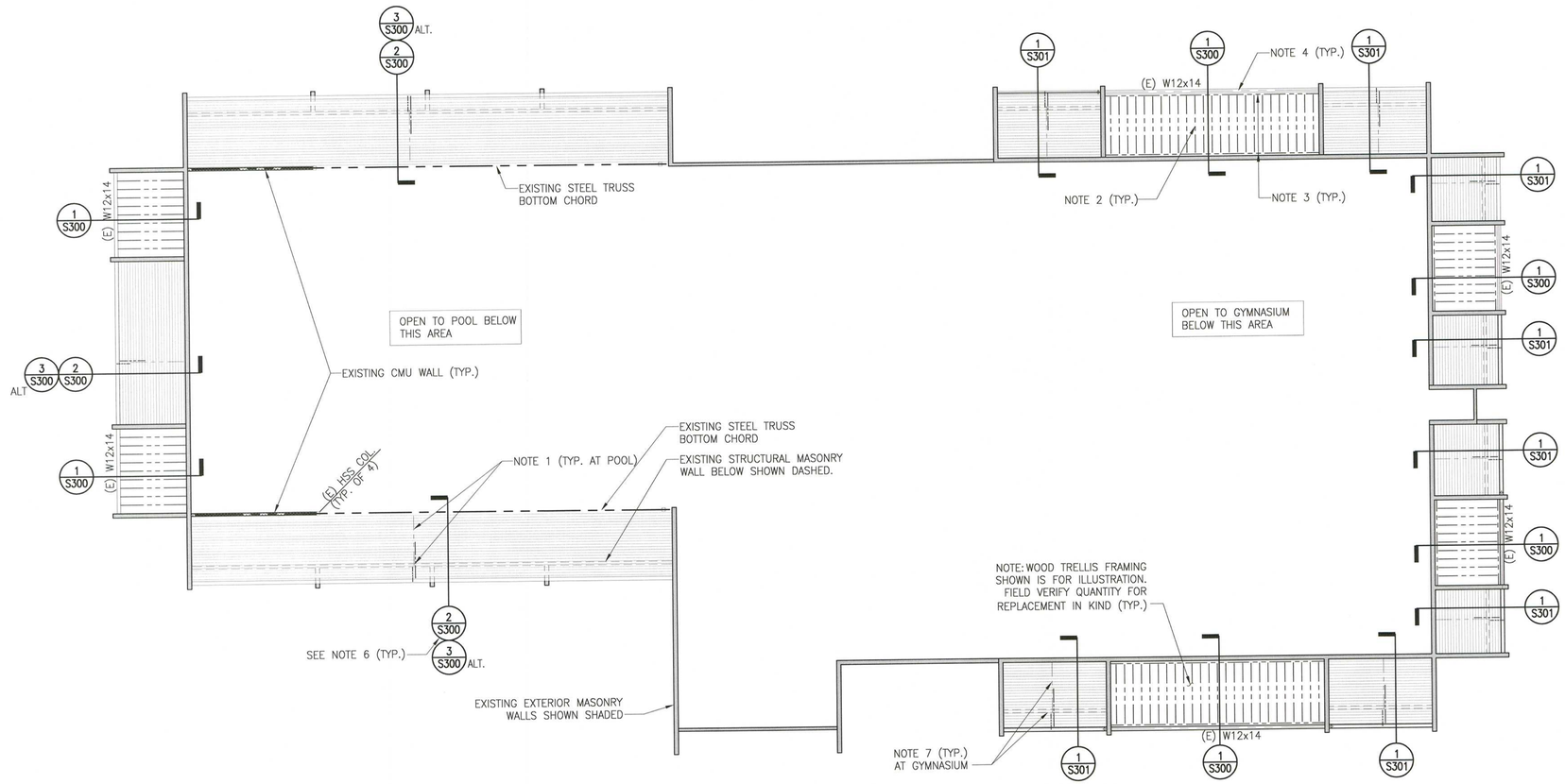
GENERAL NOTES

Drawing Title

Project No.	Checked	Date
150049.01	ERO	01/22/16
Drawn	Approved	Scale
ERO	GRS	

Drawing No.

S001

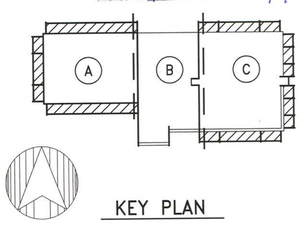


EXISTING LOW ROOF FRAMING PLAN – NEW WORK

1/16" = 1'–0"

PLAN NOTES:

1. EXISTING 8" DEEP CFS JOISTS AT 24"± OC. PARTIALLY DEMOLISH AS INDICATED. SISTER NEW 800S200–54 DEEP CFS JOIST TO EACH EXISTING AND INSTALL 400S200–54 DEEP CFS OUTRIGGER (LOW). SEE 2/S300.
2. AT TRELLIS: NEW TREATED 3x12 WOOD RAFTERS AT 18"OC. MATCH PROFILE OF EXISTING WOOD FRAMING. SEE 1/S300.
3. AT TRELLIS: NEW TREATED 4x12 WOOD HEADER EACH END OF RAFTERS. SEE 1/S300.
4. AT TRELLIS: EXISTING STEEL BEAM AT 'LOW' END OF FRAMING TO REMAIN. CLEAN AND PAINT. SEE 1/S300.
5. SEE S001 FOR GENERAL NOTES.
6. AT COLD–FORMED STEEL REPAIRS, DETAIL 2/S300, DAMAGE TO EXISTING FRAMING IS ASSUMED TO BE LIMITED TO PORTIONS OUTSIDE OF THE BUILDING BASED ON LIMITED OBSERVATION. FOR BIDDING/PRICING, PROVIDE A LUMP SUM ALLOWANCE, AND ASSOCIATED UNIT PRICES, ASSUMING 20% OF CFS FRAMING REQUIRES COMPLETE REPLACEMENT. INCLUDE ALL COSTS FOR ADDITIONAL DEMOLITION (ROOF, CEILING, ETC.) AND NEW CONSTRUCTION SEE 3/S300.
7. EXISTING CFS ROOF FRAMING AT GYMNASIUM ASSUMED TO REMAIN. EXAMINE DURING DEMOLITION OF ADJACENT CONSTRUCTION AND NOTIFY ENGINEER IF DETERIORATION IS PRESENT.



KEY PLAN

SIMPSON GUMPERTZ & HEGER

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703.560.2200

Consultant

BID SET

No.	Date	Description	By
	08/28/15	100% Design Development	
	11/20/15	Pricing/Permit Set	
1	01/22/16	Bid Set (County Response Set)	

PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE GERMANTOWN, MD 20876

Project

EXISTING LOW ROOF FRAMING PLAN - NEW WORK

Drawing Title

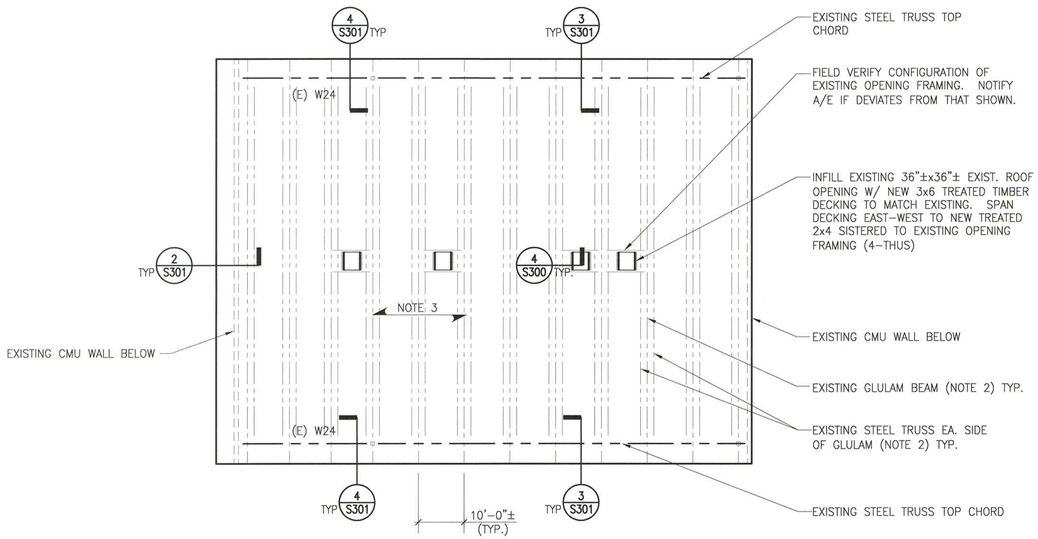
Professional Certification.
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
License No. 43366 Exp. Date: 3/16/17

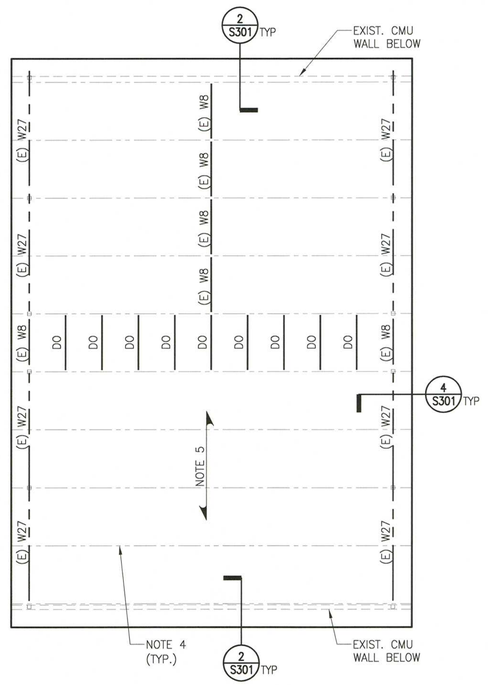
Project No.	Checked	Date
150049.01	ERO	01/22/16
Drawn	Approved	Scale
DMS	ERO	1/16"=0'–0"

Seal

Drawing No.

S110



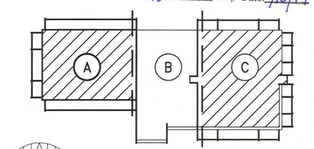


EXISTING UPPER ROOF FRAMING PLAN – NEW WORK

PLAN NOTES:

1. TOP GLULAM ELEV.= VIF.
2. EXISTING GLULAM BEAMS AT POOL ROOF SPACED 10'-0"± O.C. AND ARE SUPPORTED BY STEEL TRUSSES, INSTALLED DURING PRIOR RENOVATION.
3. EXISTING POOL ROOF DECK CONSISTS OF 3x WOOD DECKING.
4. EXISTING GLULAM BEAMS AT GYM. ROOF SPACED UP TO 13'-0"± O.C.
5. EXIST. GYM. ROOF DECK CONSISTS OF 4x WOOD DECKING.
6. SEE S001 FOR GENERAL NOTES

1/16" = 1'-0"



KEY PLAN

Professional Certification.
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland
License No. 43166 Exp Date: 3/16/17

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BID SET

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1	01/22/16	Bid Set/County Response Set	
	11/20/15	Pricing/Permit Set	
	08/28/15	100% Design Development	

PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE GERMANTOWN, MD 20876

Project

EXISTING UPPER ROOF FRAMING PLAN - NEW WORK

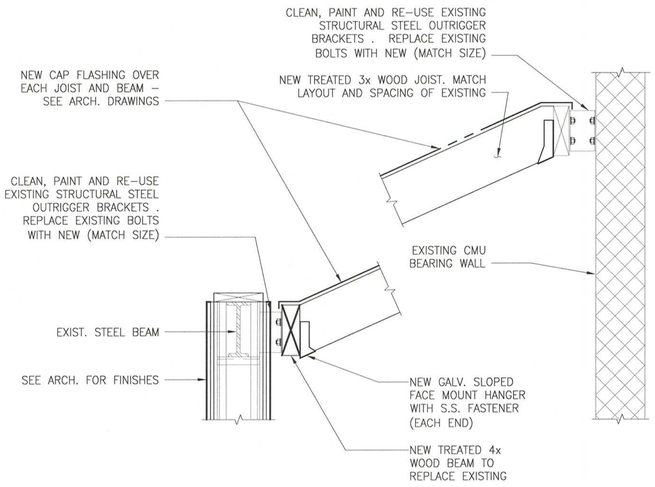
Drawing Title

Project No.	Checked	Date
150049.01	ERO	01/22/16
Drawn	Approved	Scale
DMS	ERO	1/16"=0'-0"

Seal

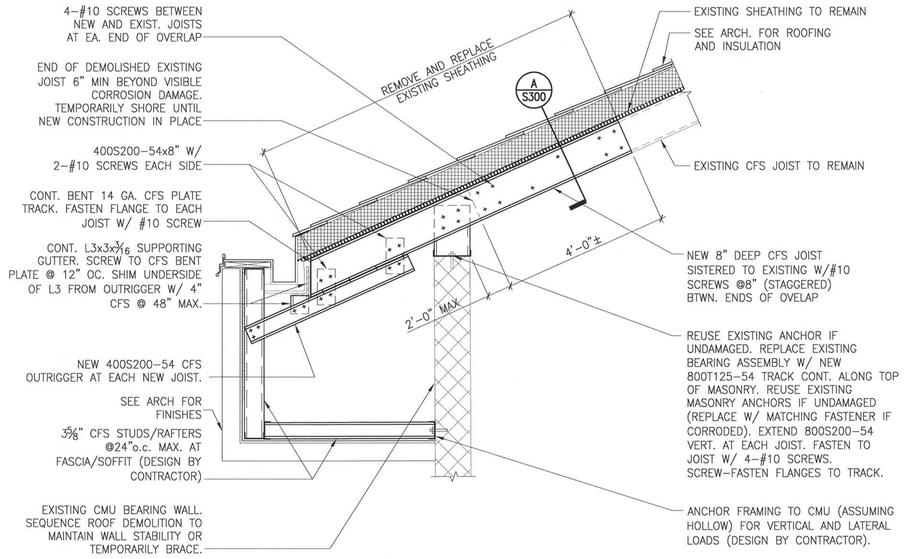
Drawing No.

S111



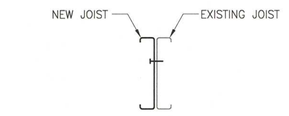
1 SECTION AT TRELLIS

3/4" = 1'-0"



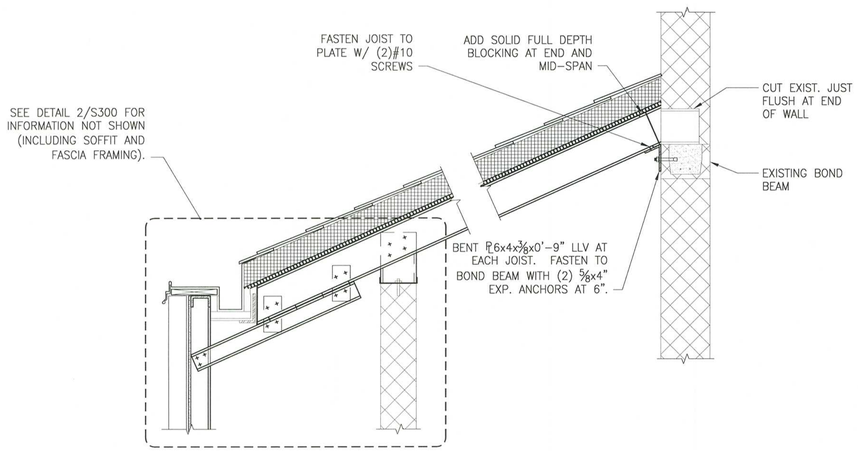
2 TYPICAL LOW ROOF SECTION AT POOL - BASIS OF DESIGN

3/4" = 1'-0"



A SECTION

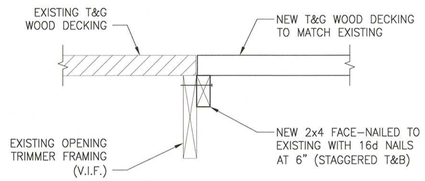
NTS.



NOTE: THIS DETAIL ONLY APPLIES WHERE DEMOLITION OF EXISTING JOIST EXCEEDS LIMITATION IN 2/S300.

3 LOW ROOF SECTION AT POOL - ALTERNATE TO REPLACE EXISTING JOIST

3/4" = 1'-0"



4 SECTION AT POOL ROOF INFILL

1 1/2" = 1'-0"

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PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION
MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

Project

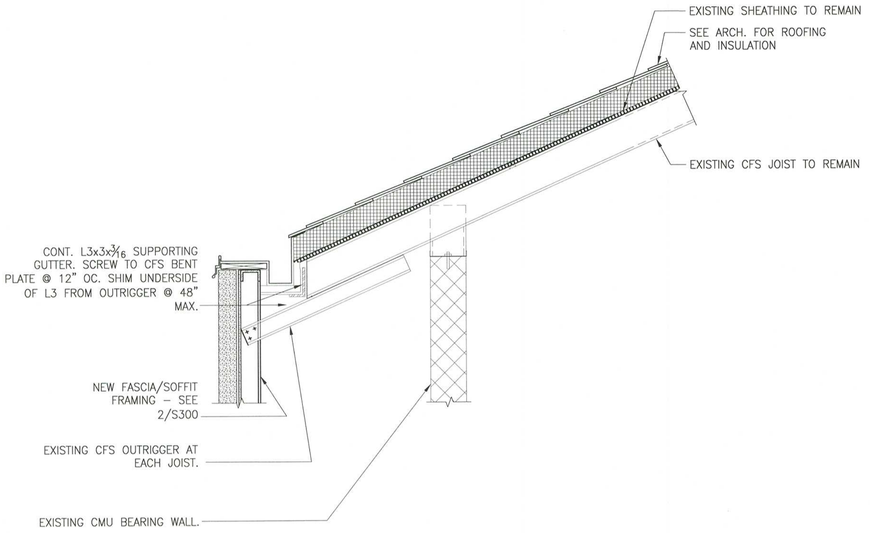
DETAILS

Drawing Title

Project No.	Checked	Date
150049.01	ERO	01/22/16
Drawn	Approved	Scale
DMS	ERO	0/0"=0'-0"

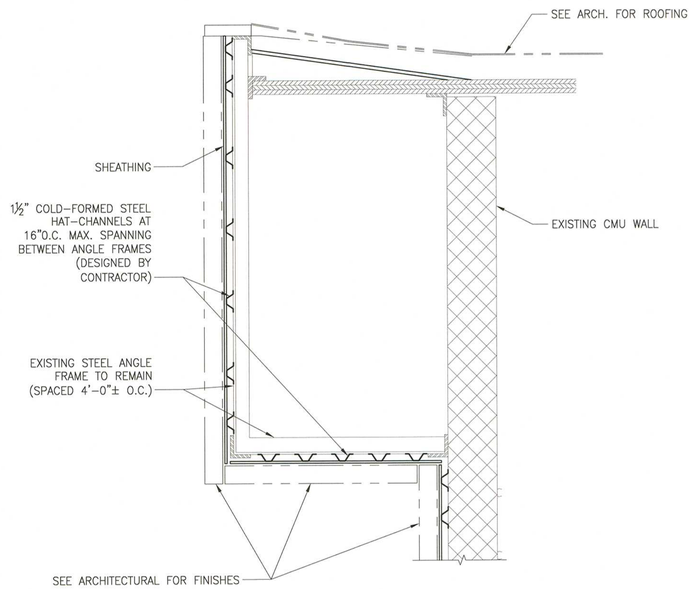
Drawing No.

S300



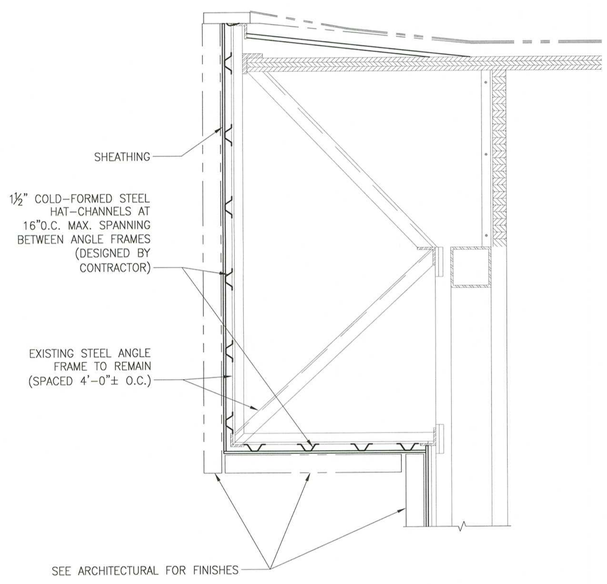
1 TYPICAL LOW ROOF SECTION – AT GYMNASIUM

3/4" = 1'–0"



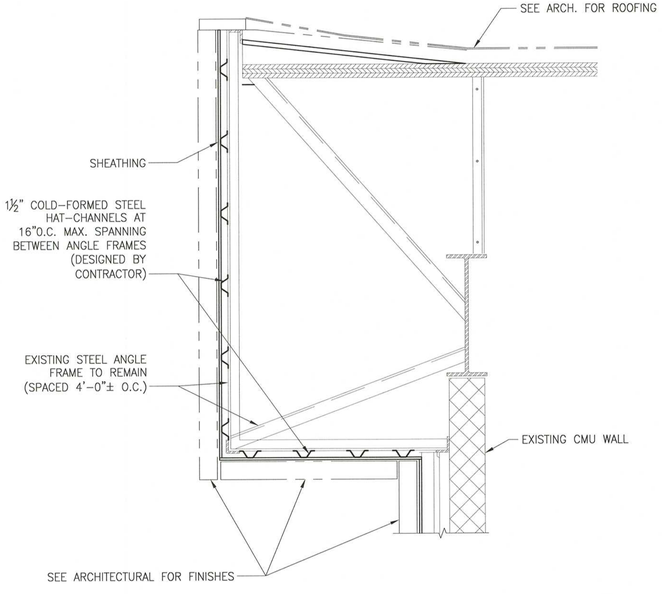
2 SECTION AT UPPER ROOF

3/4" = 1'–0"



3 SECTION AT UPPER ROOF

3/4" = 1'–0"



4 SECTION AT UPPER ROOF

3/4" = 1'–0"

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PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE GERMANTOWN, MD 20876

Project

DETAILS

Drawing Title

Project No.	Checked	Date
150049.01	ERO	01/22/16
Drawn DMS	Approved ERO	Scale 0/0"=0'–0"

Seal

Drawing No.

S301

GENERAL NOTES

1. THE CONTRACTOR PROVIDED ESS SHALL BE COMPATIBLE AND FULLY INTEGRATED WITH THE EXISTING GE FACILITY COMMANDER SECURITY MANAGEMENT SYSTEM SERVER LOCATED IN THE MONTGOMERY COLLEGE, GERMANTOWN CAMPUS. THE WORK SHALL INCLUDE THE INSTALLATION OF SYSTEM COMPONENTS, CONDUIT AND RACEWAY SYSTEMS (WHERE NECESSARY), CABLING AND TERMINATION FOR THE SYSTEM SIGNALS AND COMMUNICATIONS, PROGRAMMING AND TESTING OF ALL SYSTEM COMPONENTS.
2. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE ALL EXISTING CONDITIONS AND DIMENSIONS INDICATED ON DRAWINGS PRIOR TO EXECUTION OF THIS CONTRACT. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL PARTITIONS PRIOR TO BEGINNING WORK.
3. THE TERM "PROVIDE" MEANS FURNISH AND INSTALL, COMPLETE AND READY FOR USE.
4. THE TERM "OWNER" MEANS MONTGOMERY COMMUNITY COLLEGE OR ITS DESIGNATED REPRESENTATIVE OR AGENT.
5. THE TERM "CONTRACTOR" OR "GENERAL CONTRACTOR" MEANS THE PRIME CONTRACTOR RESPONSIBLE FOR ALL WORK DEFINED IN THE SPECIFICATIONS AND SHOWN ON THE DRAWINGS.
6. THE TERM "ELECTRICAL CONTRACTOR" MEANS A LICENSED AND QUALIFIED SUBCONTRACTOR PERFORMING WORK FOR THE CONTRACTOR AS DEFINED IN THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS.
7. THE TERM "SECURITY CONTRACTOR" MEANS A LICENSED AND QUALIFIED SUBCONTRACTOR PERFORMING WORK FOR THE CONTRACTOR AS DEFINED IN THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS.
8. THE TERM "CONTRACT DOCUMENTS" MEANS THE SPECIFICATIONS, DRAWINGS, ADDENDUM, SKETCHES, AND OTHER DOCUMENTATION THAT DEFINE THE WORK. ALL CONTRACT DOCUMENTS SHALL BE USED IN COMBINATION TO DEFINE THE WORK REQUIREMENTS. VERIFY ANY CONFLICT BETWEEN DRAWINGS, TECHNICAL SPECIFICATIONS, AND SCHEDULES WITH THE ARCHITECT PRIOR TO PERFORMANCE OF THE WORK.
9. THE CONTRACT DRAWINGS ARE DIAGRAMMATIC AND DEFINE THE GENERAL ARRANGEMENT OF DEVICES AND EQUIPMENT. PROVIDE PROJECT MANAGEMENT, ADMINISTRATIVE SUPPORT, SYSTEM DESIGN AND ENGINEERING SERVICES AS REQUIRED.
10. PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, WIRE, CABLE, CONDUITS AND RACEWAYS (AS REQUIRED) FOR A COMPLETE INSTALLATION.
11. PROVIDE COORDINATION AND VERIFICATION OF ALL CONDITIONS INCLUDING EQUIPMENT AND DEVICES INSTALLED BY OTHER TRADES, TO INCLUDE THE WORK OF THE CONTRACTOR AND SUBCONTRACTORS.
12. PROVIDE ALL DOCUMENTATION INCLUDING DESIGN DOCUMENTATION, AS-BUILT DOCUMENTATION, PROGRAMMING WORKSHEETS AND PROJECT COMMUNICATIONS
13. FIELD VERIFY AND COORDINATE ALL "NEW WORK" DEVICE LOCATIONS. WHERE CONFLICTS OCCUR, COORDINATE AND VERIFY FINAL LOCATIONS WITH THE OWNER PRIOR TO INSTALLATION.
14. CONTRACTOR SHALL PAY ALL FEES AND SHALL OBTAIN ALL PERMITS AND LICENSES AS REQUIRED TO PERFORM THE WORK DEFINED IN THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS.
15. PROVIDE NEW MATERIAL AND EQUIPMENT THAT CONFORM TO THE APPLICABLE STANDARDS OF UL, NEC, NEMA, ASTM, BICSI AND ANSI.
16. ALL WORK SHALL BE GUARANTEED FOR A MINIMUM OF ONE YEAR COMMENCING ON THE DATE OF FINAL ACCEPTANCE BY THE OWNER.
17. PROVIDE COORDINATION AND VERIFICATION OF DOOR HARDWARE, EQUIPMENT, AND DEVICES. COORDINATE ALL DOOR HARDWARE FUNCTIONS FOR UNLOCKING, EMERGENCY EGRESS, AND INTERRUPTION OF LOCK POWER BY DOOR HARDWARE EXIT DEVICES.
18. PROVIDE INTEGRATION OF SECURITY DEVICES AND EQUIPMENT WITH BUILDING FIRE ALARM DEVICES AND EQUIPMENT TO COMPLY WITH NFPA, NEC AND LOCAL CODES AND ORDINANCES.

CONDUIT NOTES

1. ABOVE ACCESSIBLE CEILING ROUTE SECURITY CABLE IN SHARED IT CABLE TRAY OR ON J-HOOKS.
2. IN AREAS WITH HARD CEILING OR NO CEILING ROUTE SECURITY CABLING IN CONDUIT.
3. CONDUIT WILL COMPLY WITH NEC AND LOCAL REQUIREMENTS.
4. CONTRACTOR SHALL PROVIDE COMPRESSION TYPE CONDUIT FITTINGS. SET SCREW TYPE FITTINGS ARE NOT ACCEPTABLE.
5. MOUNT ALL SECURITY CONDUITS AND RACEWAY TO MASONRY WALLS. PAINT ALL SECURITY CONDUITS AND RACEWAYS TO MATCH WALL.
6. PAINT ALL JUNCTION BOXES, DEVICE BOXES, TERMINAL CABINETS AND WIRE TROUGH TO MATCH WALL.
7. PROVIDE OWNER APPROVED SECURITY SCREWS AND FASTENERS FOR ALL SECURITY JUNCTION BOXES AND SCREW COVER ENCLOSURES.

WIRE AND CABLE NOTES

1. PROVIDE ALL WIRE AND CABLE FOR A COMPLETE AND FUNCTIONAL SECURITY SYSTEM.
2. PROVIDE WIRE AND CABLE THAT COMPLY WITH NEC AND UL REQUIREMENTS OR COMPLY WITH LOCAL CODES AND ORDINANCES. THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
3. WIRE AND CABLE CONDUCTORS FOR DATA CIRCUITS, CONTROL CIRCUITS, AND COMMUNICATIONS WIRING SHALL BE #22 AWG MINIMUM. UP SIZE CONDUCTORS AS REQUIRED TO PROVIDE A MAXIMUM VOLTAGE DROP OF 10%.
4. WIRE AND CABLE CONDUCTORS FOR LOW VOLTAGE POWER DISTRIBUTION AND CONTROL CIRCUIT WIRING SHALL BE #18 AWG MINIMUM. UP SIZE CONDUCTORS AS REQUIRED TO PROVIDE A VOLTAGE DROP LESS THAN 10%.
5. MANUFACTURER'S INTERNAL INTERCONNECT WIRING SHALL BE UL LISTED AND SIZED IN ACCORDANCE WITH THE MANUFACTURER'S MINIMUM REQUIREMENTS.
6. PROVIDE SHIELDED CABLE FOR ALL LOW SPEED SERIAL DATA CIRCUITS, CONTROL CIRCUITS, AND COMMUNICATIONS WIRING.
7. PROVIDE UTP CAT6 CABLE FOR ALL HIGH SPEED DATA CIRCUITS (ETHERNET).
8. GROUND LOOPS ARE NOT PERMITTED. GROUND SHIELD DRAIN WIRES TO VERIFIED EARTH GROUND TERMINAL LUGS AT THE CONTROL CABINET OR ORIGINATING EQUIPMENT. INSULATE SHIELDS AND DRAIN WIRES AT THE DEVICE OR REMOTE TERMINATION POINT USING UL LISTED INSULATORS. THE USE OF AC POWER NEUTRAL CONDUCTORS FOR GROUND CONNECTIONS IS UNACCEPTABLE.
9. PROVIDE UNSHIELDED TWISTED PAIR CABLE ASSEMBLIES FOR ALL DC LOW VOLTAGE POWER DISTRIBUTION AND CONTROL CIRCUITS.
10. PROVIDE SHIELDED TWISTED PAIR CABLE ASSEMBLIES FOR ALL AC LOW VOLTAGE POWER DISTRIBUTION.

SYMBOL LIST

SYMBOLS	DESCRIPTION
	CONDUIT
	CONDUIT CONTINUATION
	CONDUIT TERMINATION
JB	JUNCTION BOX, SIZED AS REQUIRED
X	ELECTRIC LOCK, M - MORTISE LOCK SET
	24VDC LOCK POWER SUPPLY
X	MAGNETIC DOOR CONTACT, X = S - SURFACE MOUNT, R - RECESSED MOUNT
XX	CARD READER, X = M - MULLION MOUNT, P - PEDESTAL MOUNT, W - WALL MOUNT
REX	PASSIVE INFRARED REQUEST TO EXIT DEVICE
PB	PUSH BUTTON REQUEST TO EXIT DEVICE
	LOCAL SOUNDER
ACP	ACCESS CONTROL PANEL (READER MODULES, INPUT/OUTPUT MODULES AS REQUIRED)
NS	NETWORK SWITCH
	120VDC 20A EMERGENCY POWER CIRCUIT (PROVIDED BY ELECTRICAL CONTACTOR)

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AC	ALTERNATE CURRENT
ACS	ACCESS CONTROL SYSTEM
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTES
APPROX	APPROXIMATE
ASTM	ASTM INTERNATIONAL
ATC	ACOUSTICAL TILE CEILING
AWG	AMERICAN WIRE GAUGE
BICSI	BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL
C	CONDUCTOR
CAB	COUNSELING AND ADVISING BUILDING
CCTV	CLOSED CIRCUIT TELEVISION
CM	CEILING MOUNTED
COMM	COMMUNICATION
DAR	DISCONNECT AND REMOVE
DC	DIRECT CURRENT
DVR	DIGITAL VIDEO RECORDER
EMT	ELECTRICAL METALLIC TUBING
ESS	ELECTRONIC SECURITY SYSTEM
IDS	INTRUSION DETECTION SYSTEM
IN	INTERIOR TYPE ENCLOSURE
IP	INTERNET PROTOCOL
MCF-NET	MONTGOMERY COLLEGE FACILITIES NETWORK
MDF	MAIN DISTRIBUTION FRAME
MTD	MOUNTED
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NC	NETWORK INTELLIGENT CONTROLLER
NTS	NOT TO SCALE
PC	PERSONAL COMPUTER
PoE	POWER OVER ETHERNET
PIR	PASSIVE INFRARED
PR	PAIR
PSU	POWER SUPPLY UNIT
RM	ROOM
RRE	REMOTE READER ELECTRONICS
RRM	REMOTE RELAY OUTPUT MODULE
RTE	REQUEST-TO-EXIT
SMS	SECURITY MANAGEMENT SYSTEM
TBD	TO BE DETERMINED
TSP	TWISTED SHIELDED PAIR
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPTED POWER SUPPLY
UNO	UNLESS NOTED OTHERWISE
VAC	VOLTS ALTERNATING CURRENT
WM	WALL MOUNTED
WP	WEATHER PROOF TYPE ENCLOSURE

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PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION
MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE GERMANTOWN, MD 20876

Project

REFERENCE SHEET SECURITY

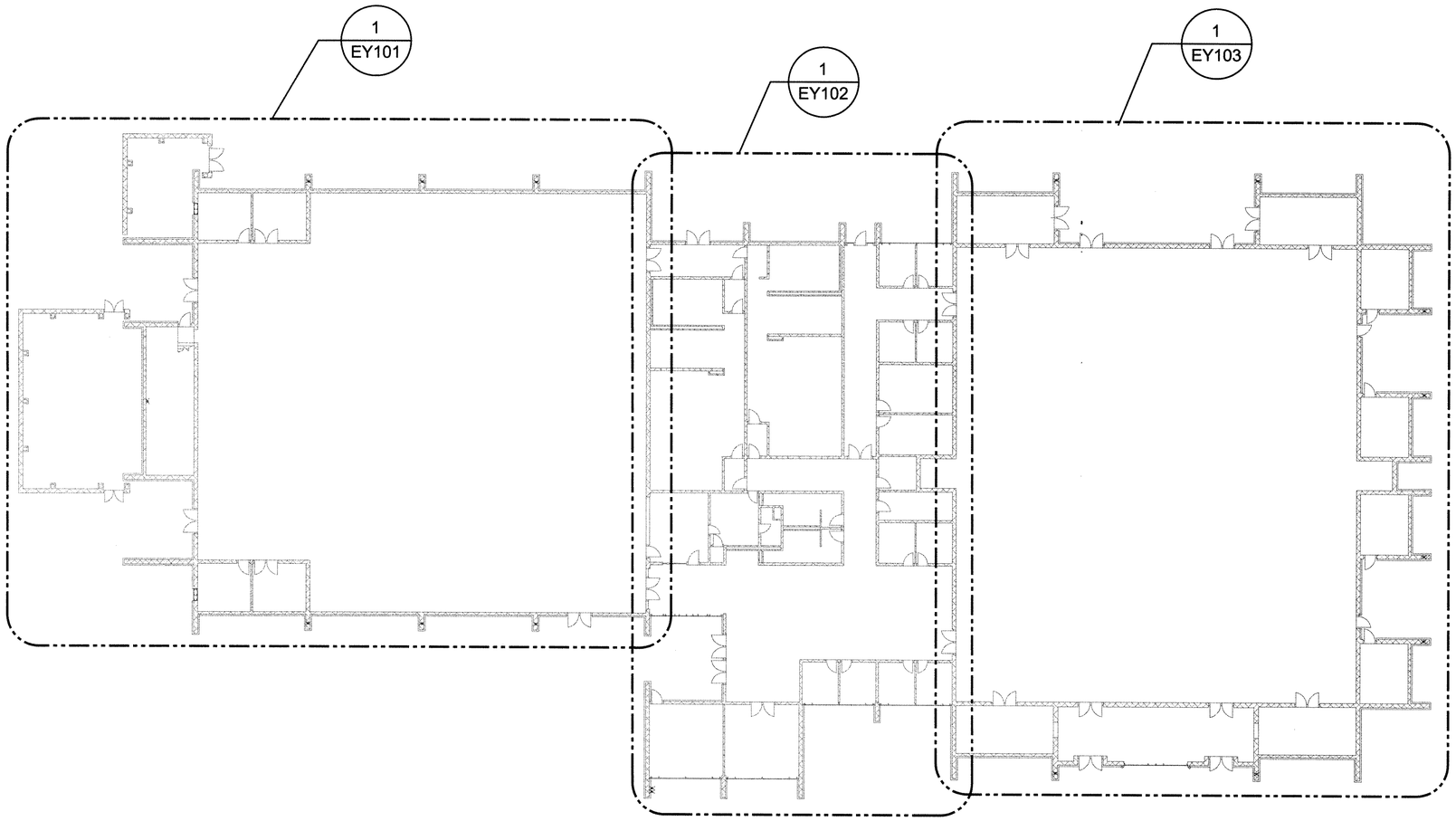
Drawing Title

Project No.	Checked	Date
150049.01	DMS	01/22/16
Drawn: MSM	Approved: DRM	Scale: AS NOTED

Seal

Drawing No.

EY001



1 FIRST FLOOR - OVERALL - SECURITY
SCALE: 1/16" = 1'-0"

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0 8' 16' 24' 32'
1/16" = 1'-0

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20200 OBSERVATION DRIVE GERMANTOWN, MD 20876

Project

OVERALL FIRST FLOOR PLAN SECURITY

Drawing Title

Project No.	Checked	Date
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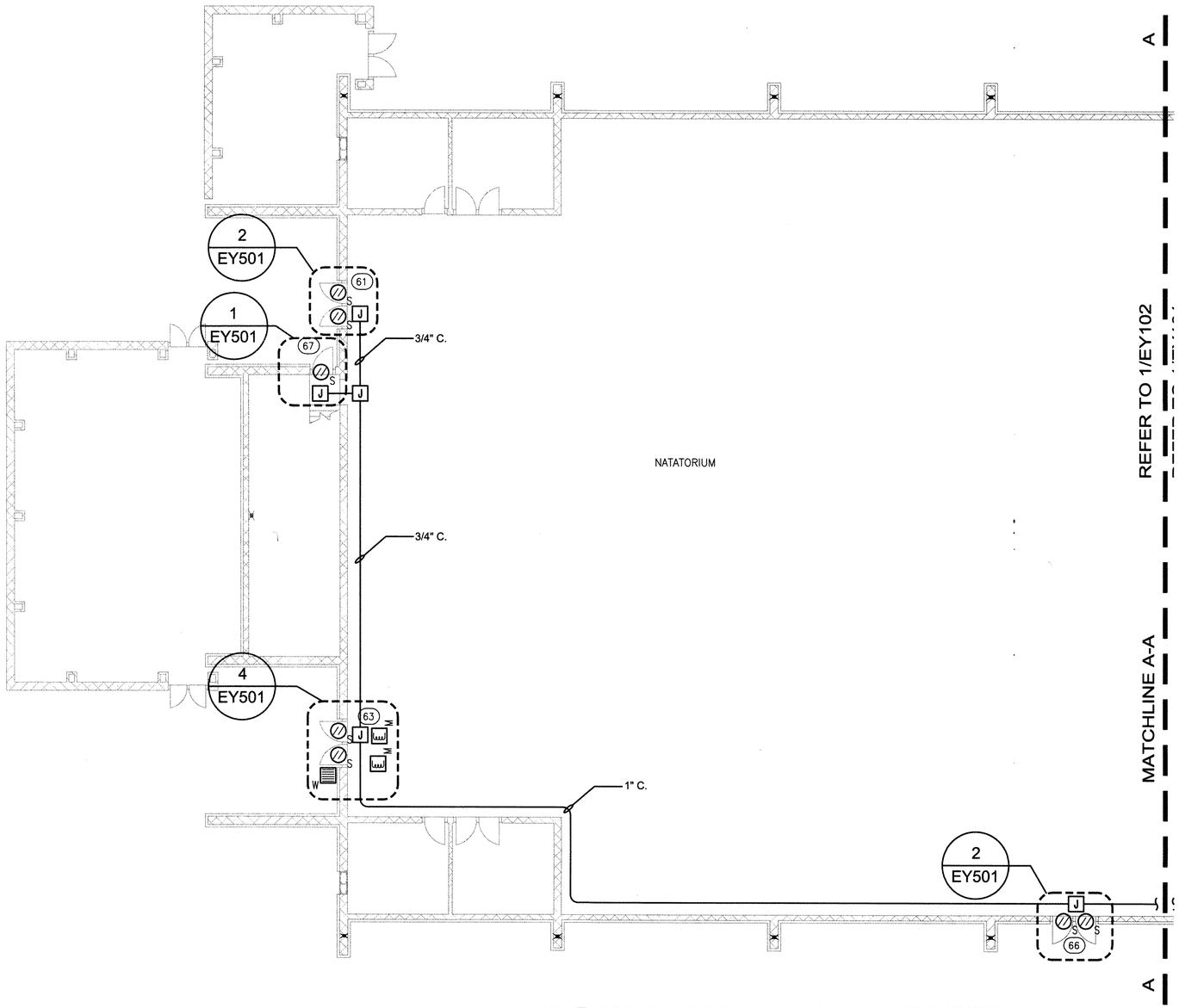
EY100

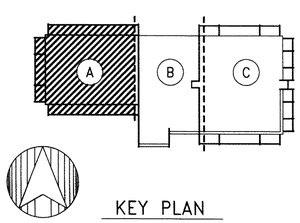


1 FIRST FLOOR PLAN - AREA A - SECURITY
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. WIRE DOOR CONTACTS IN SERIES FOR EACH SET OF DOUBLE DOORS.
2. PAINT SURFACE MOUNTED CONDUIT TO MATCH WALLS.
3. MOUNT CONDUIT TO MASONRY WALL A MINIMUM OF 10' AFF.

0 4' 8' 12' 16'
1/8" = 1'-0



KEY PLAN

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Consultant

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PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION
MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

Project

PARTIAL FIRST FLOOR PLAN SECURITY

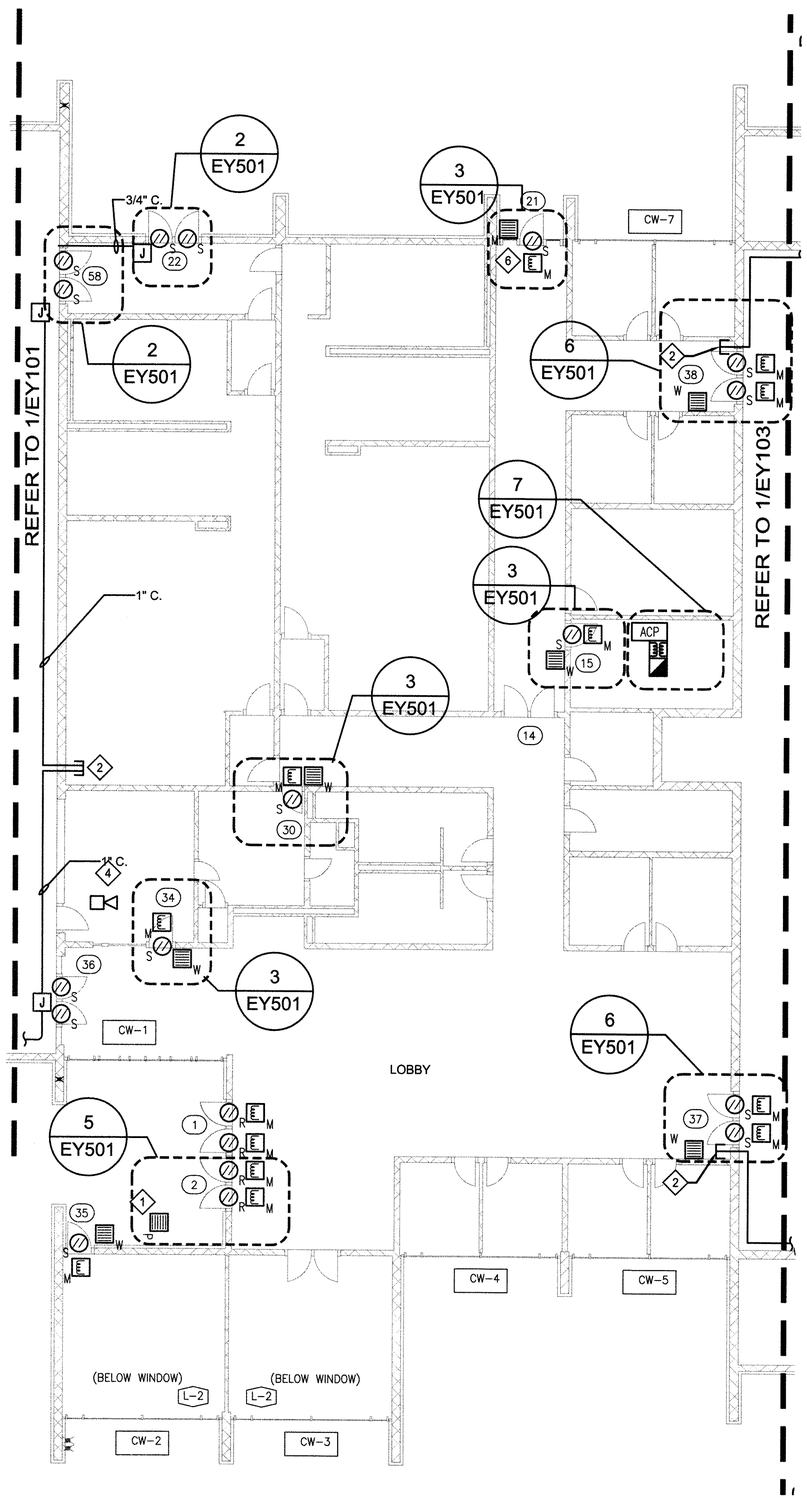
Drawing Title

Project No.	Checked	Date
150049.01	DMS	01/22/16
Drawn	Approved	Scale
MSM	DRM	AS NOTED

Seal

Drawing No.

EY101



1 FIRST FLOOR PLAN - AREA B - SECURITY
SCALE: 1/8" = 1'-0"

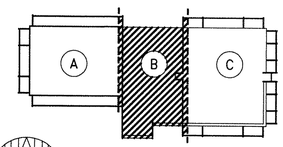
SHEET NOTES

1. PAINT SURFACE MOUNTED CONDUIT TO MATCH WALLS.
2. MOUNT CONDUIT TO MASONRY WALL A MINIMUM OF 10' AFF.

KEY NOTES

1. MOUNT CARD READER TO EXISTING ADA PEDESTAL. INTEGRATE ACS WITH ADA OPERATOR.
2. CONTINUE SECURITY CABLE TO IT CLOSET ON J-HOOKS ABOVE ATC.
3. ROUTE NEW SECURITY CABLING IN EXISTING BULK HEAD TO IT CLOSET.
4. WALL MOUNT SOUNDER ABOVE DOOR OR ON ADJACENT WALL.
5. MOUNT ACP BEHIND DOOR IN TELECOM CLOSET. INSTALL DOOR STOP IN FLOOR TO PREVENT FDOOR FROM DAMAGING PANELS.
6. 120 VAC, 20 A POWER AT DOOR (BY OTHERS).

0 4' 8' 12' 16'
1/8" = 1'-0



KEY PLAN

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Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 46280, Expiration Date: December 29, 2016

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540.351.0553

Security Consultant: **GHD, Inc.**
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571.325.5000

Cost Estimating Consultant: **Forella Group, LLC.**
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Fairfax, VA 22031
703.560.2200

Consultant

BID SET

No.	Date	Description	By
	08/28/15	100% Design Development	
	11/20/15	Pricing/Permit Set	
1	01/22/16	Bid Set (County Response Set)	

PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION
MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE
GERMANTOWN, MD 20876

Project

PARTIAL FIRST FLOOR PLAN SECURITY

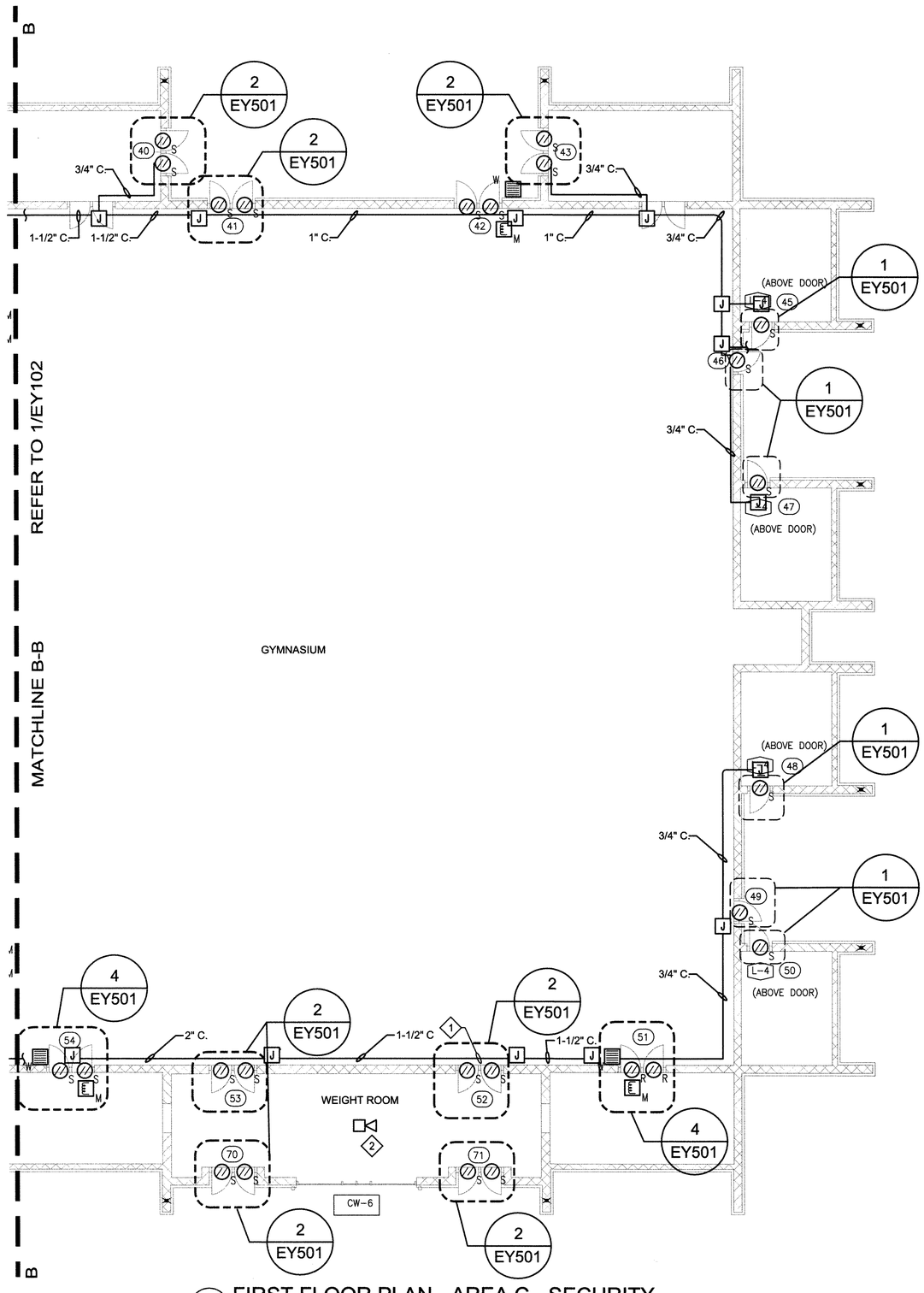
Drawing Title

Project No.	Checked.	Date
150049.01	DMS	01/22/16
Drawn	Approved	Scale
MSM	DRM	AS NOTED

Seal: STATE OF MARYLAND · SANJA KONTREC · 46280 · PROFESSIONAL ENGINEER · 1/22/2016

Drawing No.

EY102



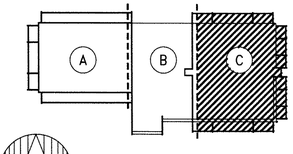
1 FIRST FLOOR PLAN - AREA C - SECURITY
SCALE: 1/8" = 1'-0"

SHEET NOTES

1. MOUNT CONDUIT TO MASONRY WALL A MINIMUM OF 10 FEET AFF.
2. PAINT CONDUIT TO MATCH WALLS.

KEY NOTES

1. INSTALL NEW SURFACE MOUNTED CONDUIT IN GYMNASIUM. ROUTE SECURITY CABLING IN CONDUIT.
2. CEILING MOUNT SOUNDER.



KEY PLAN

0 4' 8' 12' 16'
1/8" = 1'-0

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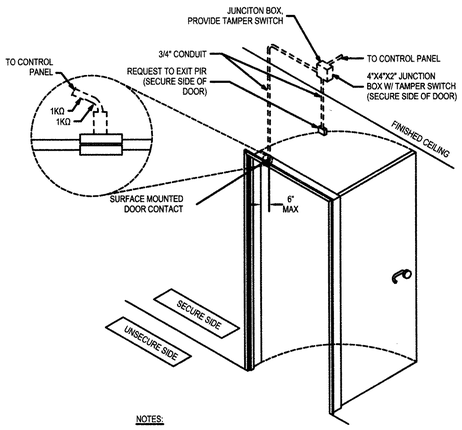
PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION
MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE GERMANTOWN, MD 20876
Project

PARTIAL FIRST FLOOR PLAN SECURITY
Drawing Title

Project No.	Checked	Date
150049.01	DMS	01/22/16
Drawn	Approved	Scale
MSM	DRM	AS NOTED

STATE OF MARYLAND SANJA KONTREC 46280 PROFESSIONAL ENGINEER 11/22/2016
Seal

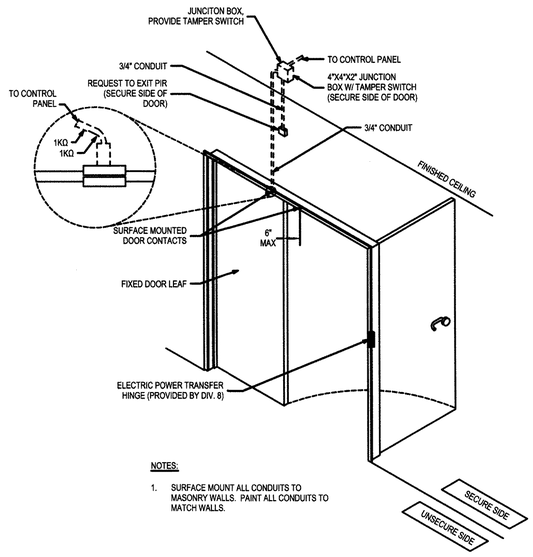
Drawing No.
EY103



NOTES:

1. SURFACE MOUNT ALL CONDUITS TO MASONRY WALLS. PAINT ALL CONDUITS TO MATCH WALLS.

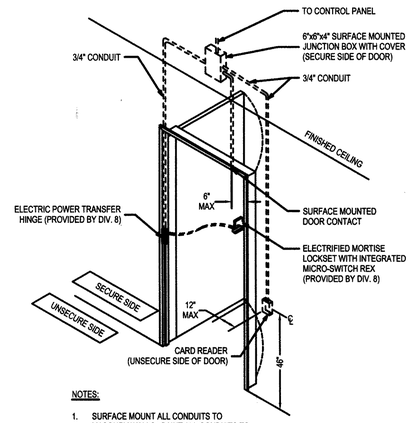
SINGLE IDS DOOR — 1 — ES.501
NOT TO SCALE



NOTES:

1. SURFACE MOUNT ALL CONDUITS TO MASONRY WALLS. PAINT ALL CONDUITS TO MATCH WALLS.

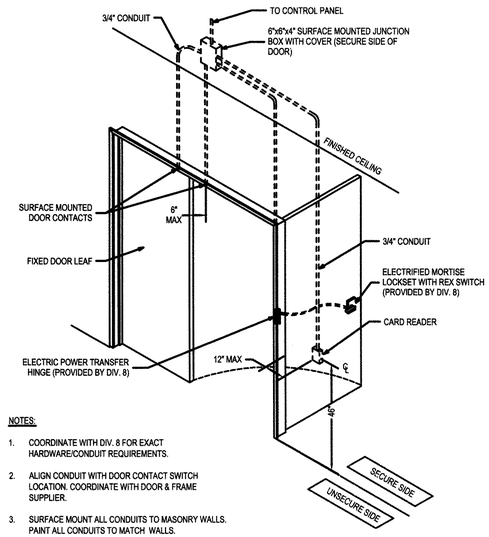
DOUBLE IDS DOOR — 2 — ES.501
NOT TO SCALE



NOTES:

1. SURFACE MOUNT ALL CONDUITS TO MASONRY WALLS. PAINT ALL CONDUITS TO MATCH WALLS.

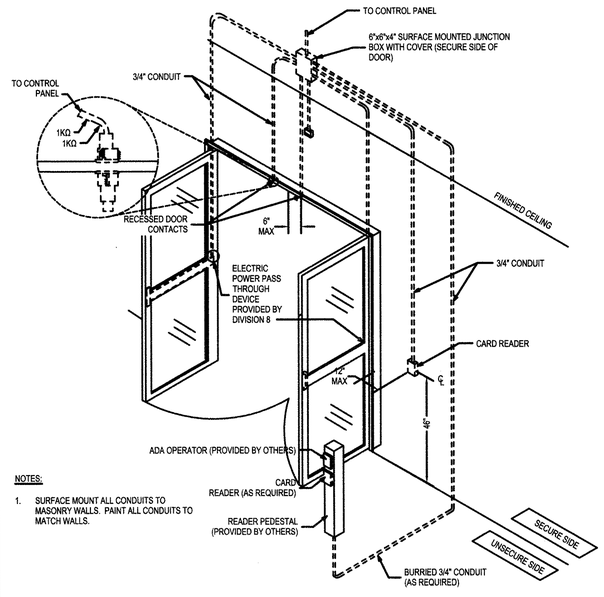
SINGLE ACS DOOR WITH MORTISE LOCKSET W/ INTEGRATED REX — 3 — ES.501
NOT TO SCALE



NOTES:

1. COORDINATE WITH DIV. 8 FOR EXACT HARDWARE/CONDUIT REQUIREMENTS.
2. ALIGN CONDUIT WITH DOOR CONTACT SWITCH LOCATION. COORDINATE WITH DOOR & FRAME SUPPLIER.
3. SURFACE MOUNT ALL CONDUITS TO MASONRY WALLS. PAINT ALL CONDUITS TO MATCH WALLS.

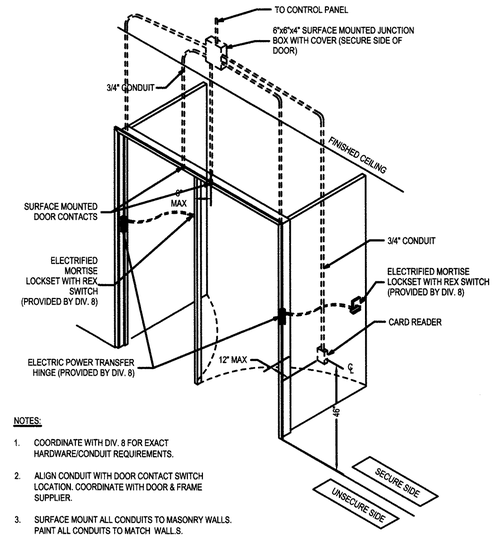
DOUBLE ACS DOOR WITH MORTISE LOCKSET AND A FIXED LEAF — 4 — ES.501
NOT TO SCALE



NOTES:

1. SURFACE MOUNT ALL CONDUITS TO MASONRY WALLS. PAINT ALL CONDUITS TO MATCH WALLS.

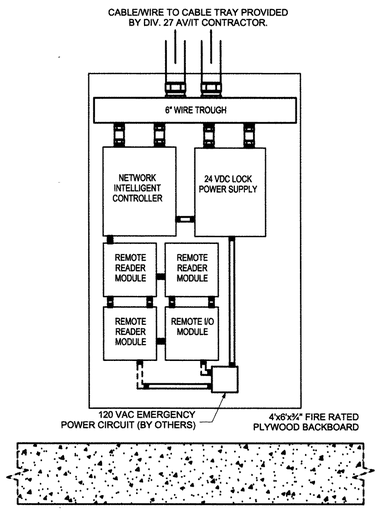
DOUBLE ACS DOOR WITH MORTISE LOCKSET W/ INTEGRATED REX — 5 — ES.501
NOT TO SCALE



NOTES:

1. COORDINATE WITH DIV. 8 FOR EXACT HARDWARE/CONDUIT REQUIREMENTS.
2. ALIGN CONDUIT WITH DOOR CONTACT SWITCH LOCATION. COORDINATE WITH DOOR & FRAME SUPPLIER.
3. SURFACE MOUNT ALL CONDUITS TO MASONRY WALLS. PAINT ALL CONDUITS TO MATCH WALLS.

DOUBLE ACS DOOR WITH MORTISE LOCKSET W/ INTEGRATED REX — 6 — ES.501
NOT TO SCALE



ELEVATION PLAN - IT CLOSET — 7 — ES.501
NOT TO SCALE

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Consultant

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PHYSICAL EDUCATION BLDG EXTERIOR RENOVATION
MONTGOMERY COLLEGE GERMANTOWN CAMPUS
20200 OBSERVATION DRIVE GERMANTOWN, MD 20876

Project

DETAILS SECURITY

Drawing Title

Project No.	Checked	Date
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MSM	DRM	AS NOTED

Drawing No.

EY501

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