PRESIDENT'S SUITE RENOVATION
BELTLINE CAMPUS
316 S BELTLINE BLVD
COLUMBIA, SOUTH CAROLINA

ISSUE FOR PERMIT DRAWINGS

11.14.25

VICINITY MAP

DRAWING LIST - COMBINED

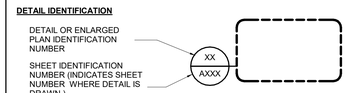
GENERAL	
GI-100	COVER SHEET
GI-200	CODE ANALYSIS
GI-401	SPECS ON SHEETS
GI-402	SPECS ON SHEETS
GI-403	SPECS ON SHEETS ELECTRICAL
ARCHITECTURAL DEMOLITION	
AD-110	LEVEL 03 DEMOLITION PLAN AND RCP
ARCHITECTURAL	
AE-050	PARTITION DETAILS
AE-110	LEVEL 03 FLOOR PLAN AND RCP
AE-360	DOOR SCHEDULE AND DETAILS
AE-400	TOILET PLANS, ELEVATIONS AND DETAILS
AE-710	LEVEL 3 FINISH PLAN, SCHEDULE & LEGEND
AE-810	INTERIOR ELEVATIONS & DETAILS

REFERENCE SYMBOLS

DETAIL IDENTIFICATION

DETAIL OR ENLARGED PLAN IDENTIFICATION NUMBER

SHEET IDENTIFICATION NUMBER (INDICATES SHEET NUMBER WHERE DETAIL IS DRAWN.)



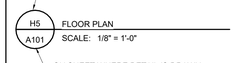
SECTION IDENTIFICATION

SECTION OR ENLARGED PLAN IDENTIFICATION NUMBER

SHEET IDENTIFICATION NUMBER (INDICATES SHEET NUMBER WHERE SECTION IS DRAWN.)

PLAN, SECTION AND DETAIL IDENTIFICATION

PLAN, SECTION AND DETAIL IDENTIFICATION NUMBER (SAME NUMBER ON SHEET WHERE DRAWN OR CUT)



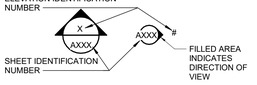
ON SHEET WHERE DETAIL IS DRAWN, INDICATES SHEET NUMBER WHERE DETAIL IS CUT

ELEVATION LOCATION IDENTIFICATION

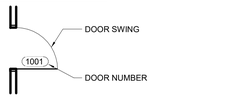
ELEVATION IDENTIFICATION NUMBER

SHEET IDENTIFICATION NUMBER

FILLED AREA INDICATES DIRECTION OF VIEW



DOOR NUMBER INDICATION



BULLETIN / ADDENDUM IDENTIFICATION

1 BULLETIN (NUMBER)

A ADDENDUM (LETTER)

REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL SYMBOLS

PROFESSIONAL SEALS:

STATE OF SOUTH CAROLINA — SSOE, Inc. — Toledo, OH — 93001 — REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA — ADRIANE M. McGILLIS — Columbia, SC — No. 9169 — REGISTERED ARCHITECT

SUBMITTAL/REVISION SCHEDULE:

NO.	DATE	DESCRIPTION
1	11.14.25	PERMIT DRAWINGS

□ APPROVED FOR CONSTRUCTION
■ NOT APPROVED FOR CONSTRUCTION

CLIENT INFORMATION:

MIDLANDS TECHNICAL COLLEGE

1260 LEXINGTON DRIVE
WEST COLUMBIA, SC
29170-2176

JHA PROJECT #: H59-6338-SG

PROJECT INFORMATION:

PRESIDENT'S SUITE RENOVATION
BELTLINE CAMPUS

316 S BELTLINE BLVD
COLUMBIA, SOUTH CAROLINA

SSOE PROJECT #: 025-00554-00

SSOE MANAGER: ADRIANE MCGILLIS

1501 Main Street, Suite 730
Columbia, SC 29201
T. (803) 765-0320

COVER SHEET

GI-100

APPLICABLE CODES

1. 2021 ICC INTERNATIONAL BUILDING CODE
2. 2021 ICC INTERNATIONAL EXISTING BUILDING CODE
3. 2021 ICC INTERNATIONAL FIRE CODE
4. 2009 IECC INTERNATIONAL ENERGY CONSERVATION CODE
5. 2021 ICC INTERNATIONAL FUEL GAS CODE
6. 2021 ICC INTERNATIONAL MECHANICAL CODE
7. 2021 ICC INTERNATIONAL PLUMBING CODE
8. 2021 INTERNATIONAL PRIVATE SEWAGR DISPOAL CODE
9. 2021 INTERNATIONAL PROPERTY MAINTENANCE CODE
10. 2021 INTERNATIONAL WILDLAND - URBAN INTERFACE CODE
11. 2021 INTERNATIONAL CODE COUNCIL PERFORMANCE CODE
12. 2017 ICC STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS
13. 2020 NFPA 70 NATIONAL ELECTRIC CODE
14. 2017 NATIONAL ELECTRICAL SAFETY COADE
15. ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES (ICC A117.1)

PROJECT NARRATIVE

THE SCOPE OF THIS PROJECT IS LIMITED TO THE 3,969 SQUARE FOOT THIRD FLOOR THAT SERVES AS THE MIDLAND'S TECHNICAL COLLEGE PRESIDENT'S OFFICE SUITE. SCOPE OF WORK IS LIMITED TO FINISH REPLACEMENT EXCEPT AS FOLLOWS:

- TWO TOILET ROOMS WILL BE ENLARGED.
  1. ONE PUBLIC TOILET WILL BE ENLARGED TO MEET CURRENT ANSI 2017.
  2. THE PRIVATE OFFICE TOILET THAT SERVES THE PRESIDENT'S OFFICE WILL ALSO BE ENLARGED.
- IT IS ALSO PLANNED TO REMOVE AN EXISTING HORIZONTAL SLIDING FIRE DOOR THAT WAS INSTALLED WHEN THE BUILDING WAS ERECTED. THE ORIGINAL INTENT WAS TO CLOSE OFF A PLANNED CATERING KITCHEN. THE AREA BEHIND THE HORIZONTAL SLIDING DOOR DOES NOT CONTAIN ANY KITCHEN EQUIPMENT THAT REQUIRES SEPARATION. THIS AREA SERVES AS A BREAK ROOM AND APPLIANCES ARE LIMITED TO RESIDENTIAL MICROWAVE, FRIDGE, SINK AND DISHWASHER.
- EXISTING DUCTWORK WILL REMAIN IN PLACE AND NEW GRILLS AND DIFFUSERS WILL BE PLACED IN NEW CEILING GRIDS.

THE THIRD FLOOR WAS ORIGINALLY DESIGNATED AS BUSINESS OCCUPANCY CLASSIFICATION AND THE RENOVATIONS DO NOT CHANGE THIS INTENT. NOT OF THE SPACE USE IS BEING ALTERED AND NO INCREASE IN OCCUPANT COUNT WILL RESULT FROM THE RENOVATIONS. THE RENOVATIONS DO NOT ALTER ANY EXISTING DOORS OR STAIRS THAT ARE PART OF THE FLOORS MEANS OF EGRESS.

BASED ON OUR UNDERSTANDING OF THE REVIEW OF THE RECORD DRAWINGS, THE FIRST FLOOR IS CONSIDERED A BASEMENT AND BELOW LEVEL OF EXIT DISCHARGE AND WAS NOT COUNTED IN THE STORY CALCULATION IN TABLE 4.

INFORMATION AT CODE TABLES IS BASED ON INFORMATION TAKEN FROM RECORD DRAWINGS.

TABLE 1 FLOOD HAZARD INFORMATION AND FLOOD LOADS

FLOOD HAZARD AREA

Flood Map Information: Flood Zone: ____ *(A Floodplain Permit is required for A and V Zones)*
Community Number: ____ Panel Number: ____
Is the Project Site in a 100-Year Floodplain? Yes No ■
Base Flood Elevation (NGVD or FIRM) ____ MSL
Design Flood Elevation (IBC 1612.3 and ASCE 24) ____ MSL

NON HIGH-VELOCITY WAVE ACTION

Elevation of Lowest Proposed Floor (ASCE 24, Chapter 2) ____ MSL
Dry floodproofing (ASCE 24) Yes ■ No ■

HIGH-VELOCITY WAVE ACTION

Elevation of bottom of Lowest Horizontal Structural Member of lowest floor ____ MSL
Flotation Resistant (ASCE 24) Yes ■ No ■
Breakaway Wall (ASCE 24) Yes ■ No ■

IBC 1612 and SE-510, as applicable

SOILS INVESTIGATION (If required - IBC 1803.2)

TABLE 2 SOILS & SITE Yes ■ No ■

SOILS CLASSIFICATION

Site Class (IBC 1613.2.2) ____
Classes Soil of Materials (UCS System) (IBC 1803.5.1) ____
Allowable Footing Bearing Pressure ____ psf

MINIMUM DESIGN SOIL BEARING LOAD (IBC TABLE 1806.2) ____ psf

COMPACTION

Subgrade ____ Percent
Base: ____ Percent
Other: ____ Percent

MINIMUM DESIGN SOIL LATERAL LOAD (IBC 1610.1) ____ psf

FOOTINGS

Undisturbed Footings Yes ■ No ■
Compacted Fill Material (IBC 1610.1) Yes ■ No ■

ELEVATIONS

Elevation of Water Table ____ MSL
Elevation of Lowest Footing ____ MSL
Elevation of Lowest Floor or Basement ____ MSL

NO CIVIL WORK IN SCOPE OF WORK

NOTE: Where a fire wall is necessary to separate buildings, each building is to be provided individual code criteria Tables 3 through 11. See IBC 503.1.2.

TABLE 3 BASIC BUILDING CODE INFORMATION

CONSTRUCTION CLASSIFICATION (IBC 602)	Type: IV		
OCCUPANCY CLASSIFICATION (indicate all) (IBC 302 & 504.2)	BUSINESS (IBC 302) ASSEMBLY (A-2) (IBC 302) MERCANTILE (IBC 302) ____ (IBC 302)		
MOST RESTRICTIVE OCCUPANCY CLASSIFICATION (IBC Tables 504.3, 504.4 & 506.2)	_ASSEMBLY (A-2)__		
Mixed Occupancy? (IBC 508)	Yes □ No ■		
Separated (IBC 506.2.2 & 508.4)	Yes □ No ■		
Non-Separated (IBC 508.3)	Yes ■ No □		
Does building require Incidental Use Separation? (IBC 509.1)	Yes □ No ■		
2-way Communication Required (IBC 1009.6.5 & 1009.8)	Yes □ No ■		
Fire Apparatus Access and Water Line (IFC 503 & 507)	Yes □ No ■		
OTHER FIRE PROTECTION SYSTEMS, DEVICES or FEATURES If the building has any special or notable fire protection of safety feature or hazard the designers should list them here, describe the performance characteristics and refer to locations in construction documents. (e.g. fire extinguishers, smoke-evacuation/control/compartments. - (IBC 414.1.3)			

TABLE 4 BUILDING HEIGHT & AREA

BUILDING HEIGHT

	AS DESIGNED		AS ALLOWED BY IBC	
	In Feet	In Stories	In Feet	In Stories
IBC TABLE 504.3	36'-11 7/8"	N/A	55'-0"	N/A
IBC TABLE 504.4	N/A	2	N/A	2
TOTAL HEIGHT (including any Allowable Increase)	36'-11 7/8"	2	55'-0"	2

BUILDING AREA

AREA LIMIT AS ALLOWED BY IBC TABLE 506.2 (area limiation for each story) 16000 SF
AREA INCREASES AS ALLOWED BY IBC SECTIONS 506.2 & 506.3 0 SF (maximum modified area for each story)
EXPLANATION OF INCREASES: ____

AREA AS ALLOWED BY IBC

Story:	FIRST FLOOR (BASEMENT)	16000 SF	(area this story)
Story:	SECOND FLOOR	16000 SF	(area this story)
Story:	THIRD FLOOR	16000 SF	(area this story)
Story:		0 SF	(area this story)
Story:		0 SF	(area this story)

TOTAL AREA OF BUILDING ALLOWED BY IBC (sum of all stories) 48000 SF SF

AREA AS DESIGNED

Story:	FIRST FLOOR (BASEMENT)	9545 SF	(area this story)
Story:	SECOND FLOOR	11484 SF	(area this story)
Story:	THIRD FLOOR	3969 SF	(area this story)
Story:		0 SF	(area this story)
Story:		0 SF	(area this story)

ACCESSORY OCCUPANCY (IBC 508.2 & TABLE 506.2)

Story:	FIRST FLOOR (BASEMENT)	0 SF	(area this story)
Story:	SECOND FLOOR	0 SF	(area this story)
Story:	THIRD FLOOR	0 SF	(area this story)
Story:		0 SF	(area this story)
Story:		0 SF	(area this story)

TOTAL DESIGNED AREA OF BUILDING (summary of all stories) 24998 SF

TABLE 5 BUILDING DESIGN OCCUPANT LOAD

		A	B	C	D
STORY	FUNCTION OF SPACE (1)	FLOOR AREA (2) (NSF or GSF)	MAX AREA ALLOWED PER OCCUPANY (3) (NSF or GSF)	OCCUPANTS ON FLOOR FOR THIS FUNCTION (4)	DESIGN OCCUPANT LOAD (5)
1	BOOKSTORE	3982 S.F.	200 S.F.	20	143
	BOOK STORE OFFICES	343 S.F.	100 S.F.	4	4
	STOCKROOM	912 S.F.	300 S.F.	5	4
	NEWSPAPER OFFICES	188 S.F.	100 S.F.	2	2
	CONFERENCE	526 S.F.	15 S.F.	35	35
	OFFICE AREA	2090 S.F.	100 S.F.	16	32
	Subtoal Design occupant Load for This Story			82	220
2	CAFETERIA &				275
	STUDENT COMMONS	6120 S.F.	40 S.F.	153	151
	Subtoal Design occupant Load for This Story			153	426
3	BOARD ROOM	1,039 S.F.	15 S.F.	70	70
	REMAINDER OF FLOOR	2,930 S.F.	100 S.F.	30	30
	Subtoal Design occupant Load for This Story			100	100
TOTAL BUIDLING DESIGN OCCUPANT LOAD				335	746

FOOTNOTES:

1. Provide the complete name of the Function of Space using the left column of Table 1004.5 of the IBC (1)
2. Design Area per each occupant of this Function on this Story in either Gross (GSF) or Net (NSF) Square Footage (2)
3. Allowed Floor Areas in SF per Occupant per right column in Table 1004.5 of the IBC (3)
4. Divide Column A (2) by Column B (3) for each function and enter result, rounded up to the nearest whole person (4)
5. Subtotal all Column C values for this floor to yield the Design Occupant Load (5)
6. Total Building Design Occupant Load –sum of all Column D value (6)

EXISITNG BUILDING BUILT IN 1997 UNDER IBC 1994. THIS INFORMATION IS TAKEN FROM ORIGINAL PLANS. IT APPEARS THAT THE ORIGINAL DESIGNERS USED DESIGN OCCUPANT LOAD FOR SIZING EGRESS COMPONENTS AND CODE MINIMUM COUNT FOR PLUMBING FIXTURE COUNT

TABLE 6 GENERAL FIRE PROTECTION REQUIREMENTS

SEPARATIONS		
Fireblocking Required (IBC Section 718)	Yes ■	No □
Draftstopping Required (IBC Section 718)	Yes □	No ■
Smoke Control System Required (IBC Section 909)	Yes □	No ■
Smoke Barriers Required (IBC Section 407 & 408)	Yes □	No ■
Smoke Partitions Required (IBC Section 407)	Yes □	No ■
Fire Partition Required (IBC Section 708)	Yes □	No ■
Fire Barrier Required (IBC Section 707)	Yes ■	No □
ALARM & DETECTION		
Fire Alarm System Required (IFC Section 907)	Yes ■	No □
Emergency/Voice Alarm Communication System Required (IFC Section 907.5.2.2)	Yes □	No ■
Fire Command Center Required (IFC Section 508)	Yes □	No ■
SUPPRESSION		
Standpipes Required (IFC Section 905)	Yes □	No ■
Sprinklers Required (IFC Section 903)	Yes ■	No □
Sprinklers Provided	Yes ■	No □
Portable Extinguishers Required (IFC 906)	Yes ■	No □
Other Suppression Systems Required (IFC 904)	Yes □	No ■
Smoke & heat vents required (IFC 970)	Yes □	No ■
Other: (Indicate other provided fire and life safety features not listed above, if any)		

TABLE 7 FIRE RESISTIVE RATING OF BUILDING ELEMENTS

BUILDING ELEMENT	RATING AS REQUIRED (in hours)	RATING AS DESIGNED (in hours)	TESTING AGENCY & DESIGN NO. (UL, FM, etc.)	DESIGNERS WALL/PARTITION KEY CODE
Primary Structural Frame (IBC Table 601)	NR	NR	N/A	▨
Bearing Walls (IBC Table 601) Exterior (IBC Table 705.5) Interior	NR NR	NR NR	NA NA	N/A N/A
Nonbearing Walls & Partitions (IBX Table 601, including footnote "d" & 602) Exterior (IBC Table 705.5 Interior	NR 1 & 2	NR 1 & 2	NR U465 / U411	N/A N/A (EXISTING)
Floor Construction (IBC table 601) (including supporting beams & joists)	NR	NR	NR	▨
Roof Construction (IBC Table 601) (including supporting beams & joists)	NR	NR	NR	▨
Fire Walls (IBC Section 706)	N/A	N/A	N/A	N/A
Fire Barriers (IBC Section 707)	N/A	N/A	N/A	N/A
Shaft Enclosures (IBC Section 713)	2 HR	2 HR	U411 & L524	N/A (EXISTING)
Opening & Protective Listing by Category (fire shutters, doors, etc. - IBC Section 716)	N/A	N/A	N/A	N/A
Others (as required by designer)				

TABLE 8 STRUCTURAL DESIGN INFORMATION

RISK CATEGORY (IBC Table 1604.5): ____

LIVE LOADS

Floor Live Load (s)

Occupancy/Use:	OFFICE	F_{ll} = 50	PSF
Occupancy/Use:	STAIRS AND EXITS	F_{ll} = 100	PSF
Occupancy/Use:	CORRIDORS ABOVE THE FIRST FLOOR	F_{ll} = 80	PSF
Occupancy/Use:		F_{ll} =	PSF
Roof Live Load		R_{ll} = _N/A	PSF
Ground Snow Load (IBC Figure 1608.2 or ASCE7)		P_g = _N/A	PSF

WIND LOADS

Analysis Procedure (ASCE 7 or IBC 1609.1): N/A
Basic Design Wind Speed (IBC Fig's. 1609.3(1)-(3)): V_{ult} = _80___ MPH
Exposure Category (IBC 1609.4.3) __N/A
Internal Pressure Coefficient (ASCE 7): GC_{pi} = _N/A___
External Pressure Coefficient (ASCE 7): GC_p = _N/A___
Protection of Openings Required (IBC 1609.2): Yes □ No □
If "Yes", check one: Impact Resistant Glazing □ Impact Resistant Covering □

SEISMIC LOADS

Seismic Importance Factor (ASCE 7 Table 1.5-2): I_e = _II
Site Class (IBC 1613.2.2): N/A
Mapped Spectral Response Accelerations: S_s = _N/A___ S_1 = _N/A___
Design Spectral Response Acceleration Parameters: S_{DS} = _N/A___ S_{D1} = _N/A___
Seismic Design Category (IBC Tables 1613.2.5.1 and 1613.2.5.2): C
Basic Seismic Force Resisting System: N/A
Design Base Shear (ASCE 7 Chapter 12): N/A KIPS
Seismic Response Coefficient(s) (ASCE 7): C_s = _N/A___
Response Modification Factor(s) (ASCE 7): R = _N/A___
Analysis Procedure N/A

ARCHITECTURAL - MECHANICAL - ETC. LOADS

Provide as applicable: architectural items, mechanical, plumbing, etc. (ASCE 7) ____

SPECIAL LOADS

Provide as applicable: abnormal items, moving loads, impact, hoisting, etc. (ASCE 7) ____

*IBC Chapter 16 and ASCE 7 -- Information may be shown on initial Structural Sheet of the drawings or on Sheet with other code information. List floor design loads on structural plans.

TABLE 9 PLUMBING INFORMATION

WATER SYSTEM: Service Line Size: 2.5 Inches
Peak Flow: 115 GPM
Total Demand: 224 No. Fixture Units

SANITARY SEWER SYSTEM: Loading: 3982 GPD
Service Line Size: 4 Inches
Slope: 1/8 min inches/ft

MINIMUM PLUMBING FIXTURES REQUIRED BY OCCUPANCY (IPC Section 403 & Table 403.1)

All Occupancy Classification(s) (same as OSE Table 3): BUSINESS (THIRD FLOOR ONLY)
Total Building Design Occupant Load (same as OSE Table 5): 268

1. Occupancy: BUS/MERC (LEVEL 1) Total Load for this Occupancy: 82 Male: 41 Female: 41
   - Water Closets/urinals (IPC Section 424.2): MALE: 2 (0 Urinals allowed) Female: 3
   - Lavatories: MALE: 2 Female: 3
   - Drinking Fountains: 2
   - Unisex Toilets: 0
   - Service Sinks: 1
   - Other (List):
2. Occupancy: ASSEMBLY (A-2) LEVEL 2 Total Load for this Occupancy: 153 Male: 77 Female: 77
   - Water Closets/urinals (IPC Section 424.2): MALE: 3 (0 Urinals allowed) Female: 3
   - Lavatories: MALE: 3 Female: 3
   - Drinking Fountains: 1
   - Unisex Toilets: 0
   - Service Sinks: 1
   - Other (List):
3. Occupancy: BUSINESS (LEVEL 3) Total Load for this Occupancy: 33 Male: 17 Female: 17
   - Water Closets/urinals (IPC Section 424.2): MALE: 1 (0 Urinals allowed) Female: 2
   - Lavatories: MALE: 1 Female: 2
   - Drinking Fountains: 1
   - Unisex Toilets: 0
   - Service Sinks: 0
   - Other (List):

TOTAL BUILDING COUNT REQUIRED/PROVIDED (add all occupancies) — *Note: Round up all numbers Whole Numbers Only*

	REQUIRED		PROVIDED	
	Male	Female	Male	Female
Total Water Closets/ *Urinals	6 (0 Urinals allowed)	8	4 (3 Urinals provided)	9
Total Lavatories	6	8	6	9
Total Drinking Fountains	4		6	
Total Unisex Toilets	0		0	
Total Service Sinks	2		2	
Others (list)				
Bathtubs/ Showers	0		0	

* Urinals -- See IPC 424.2
Where mixed Occupancies occur within buildings, expand this table to indicate Occupant loads for each. The minimum required toilet fixtures are calculated for the total Design Occupant Load indicated in Table 5-6.

NO PLUMBING FIXTURES ARE BEING REMOVED OR ADDED TO THE BUILDING TOTAL. PLUMBING FIXTURES ARE BEING REPLACED IN THE TOILET ROOM IN WHICH THEY ARE LOCATED IN EQUAL COUNTS TO WHAT IS EXISTING. PLUMBING FIXTURE COUNTS ENTERED IN CHART ARE BASED ON CODE INFORMATION AT RECORD DRAWINGS FROM 1997 WHEN BUILDING WAS BUILT UNDER THE 1994 IBC

TABLE 10 MECHANICAL INFORMATION

AIR COMFORT SYSTEMS

Overall Thermal Transfer Value (OTTV): 0.13 BTU/(HR x °F x SF)
Building Cooling Load 277 SF / Ton
Building Heating Load 27 BTU/(HR x SF)

OTHER LOADING FEATURES

Glass U Factor .37 Window to wall ratio 45.12
Insulation Values Roof 15 Exterior Walls 10
Outside Air Minimum While Occupied 20 CFM 1 Occupants

MECHANICAL SYSTEMS, SERVICE SYSTEMS & EQUIPMENT

Briefly describe mechanical system:

(The above data shall be considered a minimum and any special attribute required to meet the mechanical codes.)

TABLE 11 ELECTRICAL INFORMATION

SERVICE TRANSFORMER □ By Utility Co. ■ By Agency If by Agency: MTC KVA Primary 8320/4800Voltage/Phase

ELECTRICAL SERVICE INFORMATION

Service Voltage / Phase 480/277 / 3 PHASE Amperes: 600
Service Entrance Conductors Size 350 MCM Quantity per Phase: 2
Total Connected Load 364 KVA Estimated Dem and Factor: 0.75
Estimated Maximum Demand 275 Amperes
Available Fault Current in Symmetrical Amperes 18,000 Amperes
Interrupting Capacity of Service Overcurrent Device 22,000 Amperes
Grounding Electrod System Componenets:
■ Metal In-ground Support Structure(s) ■ Metal Underground Water Pipe
■ Ground Ring □ Concrete-Enclosed Electrode
□ Plate Electrodes □ Rod and Pipe Electrodes
□ Other Listed Electrodes, please specify □ Other Local Metal Underground Systems or Structures

EMERGENCY SERVICE INFORMATION:

Generator 1: □ Emergency □ Standby □ Op. Standby ____Voltage/Phase ____Fuel ____KVA
Generator 1: □ Emergency □ Standby □ Op. Standby □ Integral Battery ____Fuel ____KVA
Exit / Emergency Egress Lighting Backup Power ■ Battery □ Generator
Fire Alarm System: ■ Manual ■ Automatic ■ Addressable □ Class A ■ Class B □
Fire Alarm System Moethod of Communication to Monitoring Station (please specify): ____
Fire Alarm Pathway Survivability: □ Level 0 □ Level 1 □ Level 2 □ Level 3
Carbon Monoxide Detection Required? ■ Yes ■ No
Carbon Dioxide Detection Required? □ Yes □ No
Emergency Responder Radio Coverage Enhancement Required? □ Yes □ No

LIGHTNING PROTECTION SYSTEM PROVIDED ■ Yes □ No

LIFE SAFETY PLAN NOTES

1. THIS PROJECT REQUIRES THAT THE FOLLOWING LIFE SAFETY MEASURES ARE TO BE IMPLEMENTED AND ENFORCED AT ALL CONSTRUCTION AREAS. CONTRACTORS AND THEIR SUBCONTRACTORS ARE TO BE AWARE OF AND FOLLOW THESE REQUIREMENTS.
2. ASSURE THAT EXITS PROVIDE FREE AND UNOBSTRUCTED EGRESS, AND THAT PERSONNEL RECEIVE TRAINING IF ALTERNATIVE EXITS ARE DESIGNATED. BUILDINGS OR AREAS UNDER CONSTRUCTION SHALL MAINTAIN ESCAPE FACILITIES FOR CONSTRUCTION WORKERS AT ALL TIMES. MEANS OF EGRESS IN CONSTRUCTION AREAS ARE TO BE INSPECTED DAILY.
3. MAINTAIN MEANS OF EGRESS ROUTES THROUGHOUT THE PERIODS WHEN THE BUILDING IS OCCUPIED. EGRESS ROUTES ARE TO BE CLEARLY MARKED WITH SIGNS, LIGHTING, AND PROPER FLOOR SURFACES.
4. ASSURE FREE AND UNOBSTRUCTED ACCESS FOR EMERGENCY PERSONNEL AND EMERGENCY RESPONSE FORCES.
5. ASSURE THAT FIRE ALARM DETECTION AND SUPPRESSION SYSTEMS ARE NOT IMPAIRED WITHIN OCCUPIED AREAS OF THE BUILDING. PROVIDE TEMPORARY, EQUIVALENT SYSTEMS WHEN ANY SYSTEM NEEDS TO BE INOPERATIVE DURING CONSTRUCTION. INSPECT AND TEST TEMPORARY SYSTEMS MONTHLY.
6. PROVIDE 1 HOUR RATED TEMPORARY CONSTRUCTION PARTITIONS (UL # U309) THAT ARE AIR AND SMOKE TIGHT. WHERE PART OF EXTERIOR PARTITIONS, PROVIDE MINIMUM R-11 INSULATION.
7. PROHIBIT SMOKING IN, OR ADJACENT TO, ALL CONSTRUCTION AREAS.
8. DEVELOP AND ENFORCE STORAGE, HOUSEKEEPING, AND DEBRIS REMOVAL PRACTICES THAT REDUCE THE FLAMMABLE AND COMBUSTIBLE FIRE LOAD OF THE BUILDING TO THE LOWEST LEVEL REQUIRED FOR DAILY OPERATION.
9. PROVIDE INCREASED HAZARD SURVEILLANCE OF BUILDINGS, GROUNDS AND EQUIPMENT, WITH SPECIAL ATTENTION TO THE EXCAVATIONS, CONSTRUCTION AREAS, CONSTRUCTION STORAGE AND FIELD OFFICES. PROVIDE APPROVED BARRIERS AT ALL HAZARDOUS AREAS.
10. CONDUCT ORGANIZATION-WIDE SAFETY EDUCATION PROGRAMS TO ASSURE AWARENESS OF ANY LIFE SAFETY CODE DEFICIENCIES, CONSTRUCTION HAZARDS, AND THESE REQUIREMENTS.
11. PROVIDE EXHAUST AIR FLOW SUFFICIENT TO MAINTAIN NEGATIVE AIR PRESSURE IN THE CONSTRUCTION ZONES, RELATIVE TO ALL OCCUPIED ADJACENT AREAS.

LIFE SAFETY PLAN LEGEND

WALL RATING GRAPHICS

■	NON RATED WALL
🟥 1P	1 HOUR RATED FIRE PARTITION
🟥 1B	1 HOUR RATED FIRE BARRIER
🟥 1SB	1 HOUR RATED SMOKE & FIRE BARRIER
🟦 2B	2 HOUR RATED FIRE BARRIER

AREA REFERENCE

Name / 9999 SF / 999 / 101
- NAME (AT OCCUPANT COUNT PLANS AND LIFE SAFETY PLANS, THIS IS THE OCCUPANT LOAD FACTOR TYPE)
- SQUARE FOOTAGE
- OCCUPANT LOAD COUNT (IF USED)
- NUMBER (IF USED)

ROOM REFERENCE

ROOM NAME / 101 / 150 SF
- ROOM NAME
- ROOM NUMBER
- AREA (IF USED)

EGRESS CAPACITY TAG

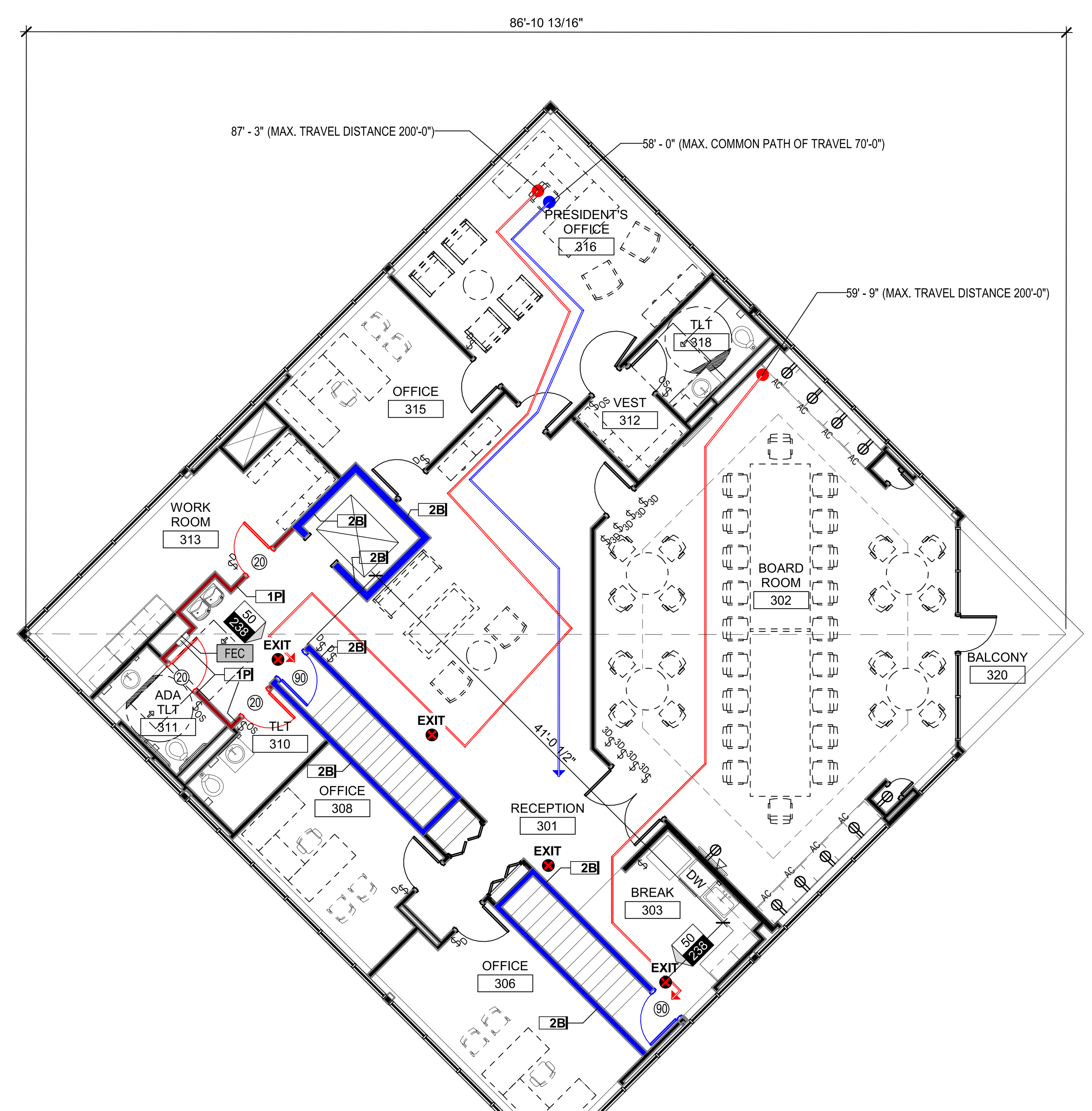
999 / 999
- DESIGN # OF OCCUPANTS
- MAXIMUM # OF OCCUPANTS ALLOWABLE PER EGRESS SYSTEM WIDTH

DOOR IDENTIFICATION

60 — DOOR & FRAME RATING IN MINUTES
EXIT — DENOTES DOOR IS EXTERIOR EXIT

FIRE EXTINGUISHERS & CABINETS

F01

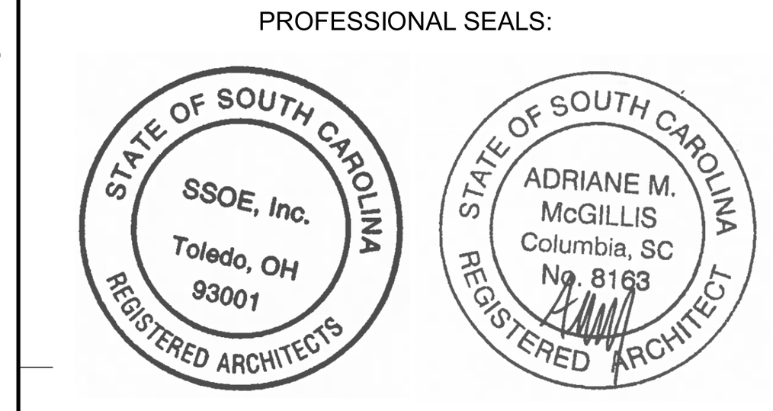


LIFE SAFETY PLAN

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

ssoe®

PROFESSIONAL SEALS:



CONSULTANTS:

KEYPLAN

SUBMITTAL/REVISION SCHEDULE:

NO.	DATE	DESCRIPTION
1	11.14.25	PERMIT DRAWINGS

□ APPROVED FOR CONSTRUCTION
■ NOT APPROVED FOR CONSTRUCTION

CLIENT INFORMATION:

MIDLANDS TECHNICAL COLLEGE

1260 LEXINGTON DRIVE
WEST COLUMBIA, SC
29170-2176

JHA PROJECT #: H59-6338-SG

PROJECT INFORMATION:

PRESIDENT'S SUITE RENOVATION BELTLINE CAMPUS

316 S BELTLINE BLVD
COLUMBIA, SOUTH CAROLINA

SSOE PROJECT #: 025-00554-00
SSOE MANAGER: ADRIANE MCGILLIS

ssoe®
1501 Main Street, Suite 730
Columbia, SC 29201
T. (803) 765-0320

CODE ANALYSIS

GI-200

SECTION 061053 -MISCELLANEOUS ROUGH CARPENTRY

PART 1 - GENERAL
1.1 SUMMARY
A. Section Includes:
1. Wood blocking and nailers.
2. Plywood backing panels.

PART 2 - PRODUCTS
2.1 WOOD PRODUCTS, GENERAL
A. Lumber: DOC PS20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
1. Factory mark each piece of lumber with grade stamp of grading agency.
2. For exposed lumber indicated to receive a stained or natural finish, mark grade stamp on end or back of each piece or omit grade stamp and provide certificates of grade compliance issued by grading agency.
B. Maximum Moisture Content of Lumber: 19 percent unless otherwise indicated.
2.2 FIRE-RETARDANT-TREATED MATERIALS
A. Fire-Retardant-Treated Lumber and Plywood by Pressure Process: Products with a flame-spread index of 25 or less when tested according to ASTM E84, and with no evidence of significant progressive combustion when the test is extended an additional 20 minutes, and with the flame front not extending more than 10.5 feet (3.2m) beyond the centerline of the burners at any time during the test.
1. Exterior Type: Treated materials shall comply with requirements specified above for fire-retardant-treated lumber and plywood by pressure process after being subjected to accelerated weathering according to ASTM D 2898. Use for exterior locations and where indicated.
2. Interior TypeA: Treated materials shall have a moisture content of 28 percent or less when tested according to ASTM D 3201 at 92 percent relative humidity. Use where exterior type is not indicated.
3. Design Value Adjustment Factors: Treated lumber shall be tested according to ASTM D 5664, and design value adjustment factors shall be calculated according to ASTM D 6841
B. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent. Kiln-dry plywood after treatment to a maximum moisture content of 15 percent.
C. Identify fire-retardant-treated wood with appropriate classification marking of qualified testing agency.
D. Application: Treat all miscellaneous carpentry unless otherwise indicated.
2.3 MISCELLANEOUS LUMBER
A. General: Provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:
1. Blocking.
2. Nailers.
3. Cants.
B. Dimension Lumber Items: Construction or No.2 grade lumber of any species.
2.4 PLYWOOD BACKING PANELS
A. Equipment Backing Panels: Plywood, DOCPS1, fire-retardant treated, in thickness indicated or, if not indicated, not less than 3/4-inch (19-mm) nominal thickness.
2.5 FASTENERS
A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.
1. Where carpentry is exposed to weather, in ground contact, pressure-preservative treated, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A153/A153M of Type304 stainless steel.
B. Screws for Fastening to Metal Framing: ASTM C 1002, length as recommended by screw manufacturer for material being fastened.
C. Power-Driven Fasteners: Fastener systems with an evaluation report acceptable to authorities having jurisdiction, based on ICC-ESAC70.

PART 3 - EXECUTION
3.1 INSTALLATION, GENERAL
A. Framing Standard: Comply with AF&PA's WCD1, "Details for Conventional Wood Frame Construction," unless otherwise indicated.
B. Set carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit carpentry accurately to other construction. Locate nailers, blocking, and similar supports to comply with requirements for attaching other construction.
C. Install plywood backing panels by fastening to studs; coordinate locations with utilities requiring backing panels. Install fire-retardant-treated plywood backing panels with classification marking of testing agency exposed to view.
D. Install wood blocking and nailers where indicated and where required for attaching other work. Form to shapes indicated and cut as required for true line and level of attached work. Coordinate locations with other work involved.
E. Securely attach carpentry work to substrate by anchoring and fastening as indicated, complying with the following:
1. Table2304.9.1, "Fastening Schedule," in ICC's International Building Code.
2. ICC-ES evaluation report for fastener.
3.2 PROTECTION
A. Protect wood that has been treated with inorganic boron (SBX) from weather. If, despite protection, inorganic boron-treated wood becomes wet, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.

END OF SECTION 061053

SECTION 093013 - TILING

PART 1 - GENERAL
1.1 SUMMARY
A. Section Includes:
1. Porcelain tile.
2. Waterproof membrane.
3. Crack isolation membrane.
4. Metal edge strips.
B. Related Requirements:
1. Section 079200 "Joint Sealants" for sealing of expansion, contraction, control, and isolation joints in tile surfaces.
2. Section 092900 "Gypsum Board" for cementitious backer units and water-resistant backer board.
1.2 DEFINITIONS
A. General: Definitions in the ANSI A108 series of tile installation standards and in ANSI A137.1 apply to Work of this Section unless otherwise specified.
B. ANSI A108 Series: "Specifications for Installation of Ceramic Tile."
C. ANSI A118 Series: "Specifications for Ceramic Tile Materials."
D. Face Size: Actual tile size, excluding spacer lugs.
E. Module Size: Actual tile size plus joint width indicated.
1.3 ACTION SUBMITTALS (Electronic Submittal)
A. Product Data: For each type of product.
B. Shop Drawings: Show locations and widths of proposed expansion, contraction, control, and isolation joints in tile substrates and finished tile surfaces, other than those indicated on drawings.
C. Samples for Verification:
1. Full-size units of each type and composition of tile and for each color and finish required. For ceramic mosaic tile in color blend patterns, provide full sheets of each color blend.
2. Full-size units of each type of trim and accessory for each color and finish required.
3. Metal edge strips in 6-inch (150-mm) lengths.
1.4 INFORMATIONAL SUBMITTALS (Electronic Submittal)
A. Qualification Data: For Installer.
B. Product Certificates: For each type of product.
C. Product Test Reports: For tile-setting and -grouting products.
1.5 MAINTENANCE MATERIAL SUBMITTALS (Electronic Submittal)
A. Furnish extra materials that match and are from same production runs as products installed and that are packaged with protective covering for storage and identified with labels describing contents.
1. Tile and Trim Units: Furnish quantity of full-size units equal to 5 percent of amount installed for each type, composition, color, pattern, and size indicated.
2. Grout: Furnish quantity of grout equal to 3 percent of amount installed for each type, composition, and color indicated.
B. Provide manufacturer's maintenance, cleaning and care information in close-out documents
1.6 QUALITY ASSURANCE
A. Installer Qualifications:
1. Installer employs only Ceramic Tile Education Foundation Certified Installers for Project.
1.7 WARRANTY
A. Provide Manufacturer's One (1) Year Warranty on Porcelain and Ceramic Tiles
B. Provide Manufacturer's Twenty-five (25) Years Warranty of Waterproofing Membrane.
C. Provide Manufacturer's Five (5) Years Warranty on Metal Transition Trim
1.8 DELIVERY, STORAGE, AND HANDLING
A. Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use. Comply with requirements in ANSI A137.1 for labeling tile packages.
B. Store tile and cementitious materials on elevated platforms, under cover, and in a dry location.
C. Store aggregates where grading and other required characteristics can be maintained and contamination can be avoided.
D. Store liquid materials in unopened containers and protected from freezing.
1.9 FIELD CONDITIONS
A. Environmental Limitations: Do not install tile until construction in spaces is complete and ambient temperature and humidity conditions are maintained at the levels indicated in referenced standards and manufacturer's written instructions.

PART 2 - PRODUCTS
2.1 MANUFACTURERS
A. Source Limitations for Tile: Obtain tile of each type and color or finish from single source or producer.
1. Obtain tile of each type and color or finish from same production run and of consistent quality in appearance and physical properties for each contiguous area.
B. Source Limitations for Setting and Grouting Materials: Obtain ingredients of a uniform quality for each mortar, adhesive, and grout component from single manufacturer and each aggregate from single source or producer.
1. Obtain setting and grouting materials, except for unmodified Portland cement and aggregate, from single manufacturer.
2. Obtain waterproof membrane and crack isolation membrane, except for sheet products, from manufacturer of setting and grouting materials.
C. Source Limitations for Other Products: Obtain each of the following products specified in this Section from a single manufacturer:
1. Waterproof membrane.
2. Crack isolation membrane.
3. Metal edge strips.
2.2 PRODUCTS, GENERAL
A. ANSI Ceramic Tile Standard: Provide tile that complies with ANSI A137.1 for types, compositions, and other characteristics indicated.
1. Provide tile complying with Standard grade requirements.
B. ANSI Standards for Tile Installation Materials: Provide materials complying with ANSI A108.02, ANSI standards referenced in other Part 2 articles, ANSI standards referenced by TCNA installation methods specified in tile installation schedules, and other requirements specified.
C. Factory Blending: For tile exhibiting color variations within ranges, blend tile in factory and package so tile units taken from one package show same range in colors as those taken from other packages and match approved Samples.
D. Mounting: For factory-mounted tile, provide back- or edge-mounted tile assemblies as standard with manufacturer unless otherwise indicated.
1. Where tile is indicated for installation in wet areas, do not use back- or edge-mounted tile assemblies unless tile manufacturer specifies in writing that this type of mounting is suitable for installation indicated and has a record of successful in-service performance.
E. Setting Materials: Systems of material specified by the tile manufacturer.
F. Tile installer or manufacturer representative to notify architect if scheduled product is not appropriate for condition noted or if accessories, adhesives, mortar, and grout are not suitable for manufacturer's product and submit recommendations on appropriate products.
2.3 PERFORMANCE REQUIREMENTS
A. Slip Resistance:
1. Meet or exceed a rating of 0.5 when tested in accordance with ASTM D2407.
2. Meet or exceed a rating of 0.6 when tested in accordance with testing procedures recognized by the Americans with Disabilities Act.
2.4 TILE PRODUCTS
A. Manufacturer: Provide product listed on finish schedule Sheet AE-710.
2.5 WATERPROOF MEMBRANE
A. General: Manufacturer's standard product that complies with ANSI A118.10 and is recommended by the manufacturer for the application indicated. Include reinforcement and accessories recommended by manufacturer. Product must be acceptable for use on cementitious backer board (see section 092900 Gypsum Board for backer board).
B. Fluid-Applied Membrane: Acrylic-based elastomeric polymer.
1. Custom Building Products: RedGard, USG: Durock Liquid Waterproofing Membrane, or equal.
2. Water Permeance rating: less than 0.5 perms, ASTM E96 Procedure E.
3. Minimum two coats at 15-20 mils wet film thickness each.
4. Fungus and Microbial Resistant, ANSI A118.10.
5. Breaking strength: .170 psi, Waterproofness: pass; ANSI A118.10.
2.6 CRACK ISOLATION MEMBRANE
A. General: Manufacturer's standard product that complies with ANSI A118.12 for standard performance and is recommended by the manufacturer for the application indicated. Include reinforcement and accessories recommended by manufacturer.
B. Polyethylene Sheet: Polyethylene faced on both sides with fleece webbing; 0.125-inch (3-mm) nominal thickness. Provide at all thick-set tile floors. Schluter: Ditra, or equal.
C. Fluid-Applied Membrane: Acrylic elastomeric polymer and fabric reinforcement. Combined with Fabric Mesh (fiberglass tape), use at existing cracks in slab.
1. Custom Building Products: RedGard, USG: Durock Liquid Waterproofing Membrane, or equal.
2. Water Permeance rating: less than 0.5 perms, ASTM E96 Procedure E.
3. Minimum two coats at 25-30 mils wet film thickness each.
4. Fungus and Microbial Resistant, ANSI A118.10.
5. Breaking strength: .170 psi, Waterproofness: pass; ANSI A118.10.
6. System Crack Resistance: High, ANSI A118.12
D. Fabric Mesh: Alkali-resistant fiberglass tape.
1. Custom Building Products: Waterproofing & Anti-Facture Membrane Mesh, or equal.
2.7 SETTING MATERIALS
A. Portland Cement Mortar (Thickset) Installation Materials: ANSI A118.1, ANSI A108.02.
1. Custom Building Products: Thick Bed Bedding Mortar; Mapei: Modified Mortar Bed; or equal.
2. Cleavage Membrane: Asphalt felt, ASTM D226/D226M, Type I (No. 15); or polyethylene sheeting, ASTM D4397, 4.0 mils (0.1 mm) thick.
3. Reinforcing Wire Fabric: Galvanized, welded-wire fabric, 2 by 2 inches (50.8 by 50.8 mm) by 0.062-inch (1.57-mm) diameter; comply with ASTM A185/A185M and ASTM A82/A82M, except for minimum wire size.
4. Latex Additive: Manufacturer's standard, serving as replacement for part or all of gaging water, of type specifically recommended by latex-additive manufacturer for use with field-mixed portland cement and aggregate mortar bed.
B. Improved Modified Dry-Set Mortar (Thinset): ANSI A118.15.
1. Custom Building Products: Prolite Premium Large Format Tile Mortar; Mapei: Premium Polymer-Enriched Large Tile & Stone Mortar; or equal.
2. Provide prepackaged, dry-mortar mix to which only water must be added at Project site.
3. For wall applications, provide mortar that complies with requirements for nonsagging mortar in addition to the other requirements in ANSI A118.15.
2.8 GROUT MATERIALS
A. Sanded Cement Grout: ANSI A118.3, A118.7
1. TEC Power grout or Equal.
2. Shrink and crack resistant per ASTM C109, Tensile strength > 500 psi, Flexural strength > 1000 psi, Stain resistant, abrasion resistant, efflorescence resistant, and low VOC.
2.9 MISCELLANEOUS MATERIALS
A. Trowelable Underlayments and Patching Compounds: Latex-modified, portland cement-based formulation provided or approved by manufacturer of tile-setting materials for installations indicated.
B. Vapor-Retarder Membrane: Polyethylene sheeting, ASTM D4397, 4.0 mils (0.1 mm) thick.
C. Cove transition strips and edge trim.
1. Schulter Systems: RENO-RAMP/-K at tile to existing floor transition.
a. Finish: Refer to finish legend.
3. Schluter Systems: DILEX-AHK at floor to wall tile transition.
a. Finish: Refer to finish legend.
D. Tile Cleaner: A neutral cleaner capable of removing soil and residue without harming tile and grout surfaces, specifically approved for materials and installations indicated by tile and grout manufacturers.
E. Floor Sealer: Manufacturer's standard product for sealing grout joints and that does not change color or appearance of grout.
2.10 MIXING MORTARS AND GROUT
A. Mix mortars and grouts to comply with referenced standards and mortar and grout manufacturers' written instructions.
B. Add materials, water, and additives in accurate proportions.
C. Obtain and use type of mixing equipment, mixer speeds, mixing containers, mixing time, and other procedures to produce mortars and grouts of uniform quality with optimum performance characteristics for installations indicated.

SECTION 093013 - TILING (CONTINUED)

PART 3 - EXECUTION
3.1 EXAMINATION
A. Examine substrates, areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
1. Verify that substrates for setting tile are firm; dry; clean; free of coatings that are incompatible with tile-setting materials, including curing compounds and other substances that contain soap, wax, oil, or silicone; and comply with flatness tolerances required by ANSI A108.01 for installations indicated.
2. Verify that concrete substrates for tile floors installed with thinset mortar comply with surface finish requirements in ANSI A108.01 for installations indicated.
a. Verify that surfaces that received a steel trowel finish have been mechanically scarified.
b. Verify that protrusions, bumps, and ridges have been removed by sanding or grinding.
3. Verify that installation of grounds, anchors, recessed frames, electrical and mechanical units of work, and similar items located in or behind tile has been completed.
4. Verify that joints and cracks in tile substrates are coordinated with tile joint locations; if not coordinated, adjust joint locations in consultation with Architect.
B. Proceed with installation only after unsatisfactory conditions have been corrected.
3.2 PREPARATION
A. Fill cracks, holes, and depressions in concrete substrates for tile floors installed with thinset mortar with trowelable leveling and patching compound specifically recommended by tile-setting material manufacturer.
B. Where indicated, prepare substrates to receive waterproof membrane by applying a reinforced mortar bed that complies with ANSI A108.1A and is sloped 1/4 inch per foot (1:50) toward drains.
C. Blending: For tile exhibiting color variations, verify that tile has been factory blended and packaged so tile units taken from one package show same range of colors as those taken from other packages and match approved Samples. If not factory blended, either return to manufacturer or blend tiles at Project site before installing.
3.3 INSTALLATION OF CERAMIC TILE
A. Comply with TCNA's "Handbook for Ceramic, Glass, and Stone Tile Installation" for TCNA installation methods specified in tile installation schedules. Comply with parts of the ANSI A108 series "Specifications for Installation of Ceramic Tile" that are referenced in TCNA installation methods, specified in tile installation schedules, and apply to types of setting and grouting materials used.
1. For the following installations, follow procedures in the ANSI A108 series of tile installation standards for providing 95 percent mortar coverage:
a. Tile floors in wet areas.
B. Coordinate installation of tile with trench drain and details shown in drawings.
C. Extend tile work into recesses and under or behind equipment and fixtures to form complete covering without interruptions unless otherwise indicated. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.
D. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.
E. Where accent tile differs in thickness from field tile, vary setting-bed thickness so that tiles are flush.
F. Jointing Pattern: Lay tile in grid pattern unless otherwise indicated. Lay out tile work and center tile fields in both directions in each space or on each wall area. Lay out tile work to minimize the use of pieces that are less than half of a tile. Provide uniform joint widths unless otherwise indicated.
1. For tile mounted in sheets, make joints between tile sheets same width as joints within tile sheets so joints between sheets are not apparent in finished work.
2. Where adjoining tiles on floor, base, walls, or trim are specified or indicated to be same size, align joints.
3. Where tiles are specified or indicated to be whole integer multiples of adjoining tiles on floor, base, walls, or trim, align joints unless otherwise indicated.
G. Joint Widths: Unless otherwise indicated, install tile with the following joint widths:
1. Mosaic Tile: 1/8 inch (3.2 mm).
2. Tile: minimum allowed joint width.
H. Expansion Joints: Provide expansion joints and other sealant-filled joints, including control, contraction, and isolation joints, where indicated. Form joints during installation of setting materials, mortar beds, and tile. Do not saw-cut joints after installing tiles.
1. Where joints occur in concrete substrates, locate joints in tile surfaces directly above them.
2. At locations where mortar bed (thickset) would otherwise be exposed above adjacent floor finishes, set thresholds in modified dry-set mortar (thinset).
3. Do not extend waterproof membrane or crack isolation membrane under thresholds set in standard dry-set, modified dry-set or improved modified dry-set mortar. Fill joints between such thresholds and adjoining tile set with elastomeric sealant.
3.4 INSTALLATION OF TILE BACKING PANEL
A. Install panels and treat joints according to ANSI A108.11 and manufacturer's written instructions for type of application indicated. Use modified dry-set mortar for bonding material unless otherwise directed in manufacturer's written instructions.
3.5 INSTALLATION OF WATERPROOF MEMBRANE
A. Install waterproof membrane to comply with ANSI A108.13 and manufacturer's written instructions to produce waterproof membrane of uniform thickness that is bonded securely to substrate.
B. Allow waterproof membrane to cure and verify by testing that it is watertight before installing tile or setting materials over it. Provide 24-hour water test for all bathroom floors.
3.6 INSTALLATION OF CRACK ISOLATION MEMBRANE
A. Install crack isolation membrane to comply with ANSI A108.17 and manufacturer's written instructions to produce membrane of uniform thickness that is bonded securely to substrate.
B. Allow crack isolation membrane to cure before installing tile or setting materials over it.
3.7 SETTING TILE
A. Mix mortar in accordance with manufacturer's printed instructions.
B. Install tiling materials in accordance with ANSI A108.5.
C. Cut and fit tile tight to protrusions and interruptions. Form corners and bases neatly.
D. Work tile joints to be uniform in width, subject to variance in tolerance allowed in tile size. Make joints watertight without voids, cracks, excess mortar or grout.
E. Sound tile after setting. Replace hollow sounding units.
F. Keep expansion joints free from adhesive, mortar and grout.
G. Allow tile to set for a minimum of 48 hours prior to grouting.
3.8 GROUTING
A. Mix grout in accordance with the manufacturer's printed instructions.
B. Apply and clean in accordance with ANSI A108.10. Damp cure for three days.
3.9 ADJUSTING AND CLEANING
A. Remove and replace tile that is damaged or that does not match adjoining tile. Provide new matching units, installed as specified and in a manner to eliminate evidence of replacement.
B. Cleaning: On completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter.
1. Remove grout residue from tile as soon as possible.
2. Clean grout smears and haze from tile according to tile and grout manufacturer's written instructions but no sooner than 10 days after installation. Use only cleaners recommended by tile and grout manufacturers and only after determining that cleaners are safe to use by testing on samples of tile and other surfaces to be cleaned. Protect metal surfaces and plumbing fixtures from effects of cleaning. Flush surfaces with clean water before and after cleaning.
3.10 PROTECTION
A. Protect installed tile work with kraft paper or other heavy covering during construction period to prevent staining, damage, and wear. If recommended by tile manufacturer, apply coat of neutral protective cleaner to completed tile walls and floors.
B. Prohibit foot and wheel traffic from tiled floors for at least seven days after grouting is completed.
C. Before final inspection, remove protective coverings and rinse neutral protective cleaner from tile surfaces.
3.11 INTERIOR CERAMIC TILE INSTALLATION SCHEDULE
A. Interior Floor Installations, Concrete Subfloor:
1. Ceramic Tile Installation FT-1: TCNA F111; cement mortar bed (thickset) with cleavage membrane.
a. Ceramic Tile Type: FT-1, ANSI 108.5.
b. Thickset Mortar: Modified dry-set or Improved modified dry-set mortar, ANSI A118.4, ANSI A108.1B.
c. Grout: Water-cleanable grout, ANSI A118.3, A118.7.
2. Ceramic Tile Installation FT-1: TCNA F125-Partial; thinset mortar on crack isolation membrane; as needed if existing slab is cracked.
a. Tile, mortar and grout same as 1 and 2 above.
b. Crack Isolation Membrane, ANSI A118.12, ANSI 108.17.
c. Sealant: ASTM C920, Pecora 898 NST or equal.
d. Grout: Water-cleanable grout, ANSI A118.3, A118.7.

END OF SECTION 093013

SECTION 095123 - ACOUSTICAL TILE CEILINGS
PART 1 - GENERAL
1.1 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
1.2 SUMMARY
A. Section Includes:
1. Acoustical tiles for interior ceilings.
2. Fully concealed, direct-hung, suspension systems.
1.3 ACTION SUBMITTALS *(Electronic submittal)*
A. Product Data: For each type of product.
1. Actual size and thickness and color.
2. Fire-rating and acoustical values.
3. Any environmental attributes and ratings.
4. Include data for any trim or edge products specified.
5. Include data on hold-down clips if specified.
B. Samples for Verification: For each component indicated and for each exposed finish required, prepared on Samples of sizes indicated below if different from specified or when requested by architect:
1. Acoustical Tiles: 4 inch (102 mm) sample for each product and for each color and texture specified.
2. Concealed Suspension-System Members: 12-inch- (305-mm-) sample of each type.
3. Exposed Moldings and Trim: Set of 6-inch- (152-mm-) samples of each type and color.
1.4 INFORMATIONAL SUBMITTALS *(Electronic submittal)*
A. Product Test Reports: For each acoustical tile ceiling, for tests performed by manufacturer or a qualified testing agency if requested.
B. Evaluation Reports: For each acoustical tile ceiling suspension system and anchor and fastener type, from ICC-ES if requested.
1.5 CLOSEOUT SUBMITTALS (Electronic submittal)
C. Maintenance data.
1.6 EXTRA MATERIALS
A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
1. Acoustical Ceiling Units: Full-size tiles equal to 2 percent of quantity installed of each type, size, and color used.
2. Suspension-System Components: Quantity of each concealed grid and exposed component equal to 2 percent of quantity installed.
3. Trim/Edge Components: Quantity of each trim or edge component used equal to 2 percent of quantity installed.
1.7 DELIVERY, STORAGE, AND HANDLING
A. Deliver acoustical tiles, suspension-system components, and accessories to Project site and store them in a fully enclosed, conditioned space where they will be protected against damage from moisture, humidity, temperature extremes, direct sunlight, surface contamination, and other causes.
B. Before installing acoustical tiles, permit them to reach room temperature and a stabilized moisture content.
1.8 WARRANTY
A. Provide Manufacturer's Warranties:
1. One (1) Year – Standard Ceiling Panels
2. Ten (10) Year Warranty on Grid
3. ClimaPlus thirty (30) Year warranty.
1.9 FIELD CONDITIONS
A. Environmental Limitations: Do not install acoustical tile ceilings until spaces are enclosed and weathertight, wet-work in spaces is complete and dry, work above ceilings is complete, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use

PART 2 - PRODUCTS
2.1 MANUFACTURERS
A. Source Limitations:
1. Suspended Acoustical Tile Ceilings: Obtain each type of acoustical ceiling tile and its suspension system from single source from single manufacturer.
2.2 PERFORMANCE REQUIREMENTS
A. Environmental: Recyclable, High Recycled Content, Certified Low VOC Emissions (UL 2818)
B. Seismic Performance: Suspended ceilings shall withstand the effects of earthquake motions determined according to ASCE/SEI 7.
C. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
1. Flame-Spread Index: Class A, 25 or less, according to ASTM E1264.
2. Smoke-Developed Index: 50 or less.
D. Fire-Resistance Ratings: Comply with ASTM E119; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
1. Indicate design designations from UL or from the listings of another qualified testing agency.
2.3 ACOUSTICAL TILES
A. Manufacturer: Provide product listed on finish schedule Sheet AE-710.
2.4 METAL SUSPENSION SYSTEM
A. Manufacturer: Provide product listed on finish schedule Sheet AE-710.
2.5 ACCESSORIES
A. Attachment Devices: Size for five times the design load indicated in ASTM C635/C635M, Table 1, "Direct Hung," unless otherwise indicated. Comply with seismic design requirements.
B. Seismic Clips: Manufacturer's standard seismic clips designed to secure acoustical tiles in-place during a seismic event.
2.6 METAL EDGE MOLDINGS AND TRIM
A. Roll-Formed, Sheet-Metal Edge Moldings and Trim: Type and profile indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations complying with seismic design requirements; formed from sheet metal of same material, finish, and color as that used for of suspension-system runners.
1. For circular penetrations of ceiling, provide edge moldings fabricated to diameter required to fit penetration exactly.
2. Finish: Painted white.
B. Extruded-Aluminum Edge Moldings and Trim: For aluminum grid systems or capped aluminum systems, provide manufacturer's extruded-aluminum edge moldings and trim of profile indicated or referenced by manufacturer's designations, including splice plates, corner pieces, and attachment and other clips, complying with seismic design requirements.
1. Baked-Enamel or Powder-Coat Finish: Minimum dry film thickness of 1.5 mils (0.04 mm). Comply with ASTM C635/C635M and coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish.

PART 3 - EXECUTION
3.1 EXAMINATION
A. Examine substrates, areas, and conditions, including structural framing and substrates to which acoustical tile ceilings attach or abut, with Installer present, for compliance with requirements specified in this and other Sections that affect ceiling installation and anchorage and for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
B. Examine acoustical tiles before installation. Reject acoustical tiles that are wet, moisture damaged, or mold damaged.
C. Proceed with installation only after unsatisfactory conditions have been corrected.
3.2 PREPARATION
A. Testing Substrates: Before adhesively bonding tiles to wet-placed substrates such as cast-in-place concrete or plaster, test and verify that moisture level is below tile manufacturer's recommended limits.
B. Measure each ceiling area and establish layout of acoustical tiles to balance border widths at opposite edges of each ceiling. Avoid using less-than-half-width tiles at borders unless otherwise indicated, and comply with layout shown on reflected ceiling plans.
C. Layout openings for penetrations centered on the penetrating items.
3.3 INSTALLATION OF SUSPENDED ACOUSTICAL TILE CEILINGS
A. Install suspended acoustical tile ceilings according to ASTM C636/C636M, seismic design requirements, and manufacturer's written instructions.
B. Suspend ceiling hangers from building's structural members and as follows:
1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structure or of ceiling suspension system.
2. Splay hangers only where required and, if permitted with fire-resistance-rated ceilings, to miss obstructions; offset resulting horizontal forces by bracing, countersplaying, or other equally effective means.
3. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with location of hangers at spacings required to support standard suspension-system members, install supplemental suspension members and hangers in form of trapezes or equivalent devices.
4. Secure wire hangers to ceiling suspension members and to supports above with a minimum of three tight turns. Connect hangers directly to structure or to inserts, eye screws, or other devices that are secure and appropriate for substrate and that will not deteriorate or otherwise fail due to age, corrosion, or elevated temperatures.
5. Secure flat, angle, channel, and rod hangers to structure, including intermediate framing members, by attaching to inserts, eye screws, or other devices that are secure and appropriate for both the structure to which hangers are attached and the type of hanger involved. Install hangers in a manner that will not cause them to deteriorate or fail due to age, corrosion, or elevated temperatures.
6. Do not support ceilings directly from permanent metal forms or floor deck. Fasten hangers to cast-in-place hanger inserts, post-installed mechanical or adhesive anchors, or power-actuated fasteners that extend through forms into concrete.
7. When steel framing does not permit installation of hanger wires at spacing required, install carrying channels or other supplemental support for attachment of hanger wires.
8. Do not attach hangers to steel deck tabs.
9. Do not attach hangers to steel roof deck. Attach hangers to structural members.
10. Space hangers not more than 48 inches (1200 mm) o.c. along each member supported directly from hangers unless otherwise indicated; provide hangers not more than 8 inches (200 mm) from ends of each member.
11. Size supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced standards.
C. Secure bracing wires to ceiling suspension members and to supports with a minimum of four tight turns. Suspend bracing from building's structural members as required for hangers without attaching to permanent metal forms, steel deck, or steel deck tabs. Fasten bracing wires into concrete with cast-in-place or post-installed anchors.
D. Install edge moldings and trim of type indicated at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical tiles.
1. Apply acoustical sealant in a continuous ribbon concealed on back of vertical legs of moldings before they are installed.
2. Screw attach moldings to substrate at intervals not more than 16 inches (400 mm) o.c. and not more than 3 inches (75 mm) from ends. Miter corners accurately and connect securely.
3. Do not use exposed fasteners, including pop rivets, on moldings and trim.
E. Install suspension-system runners so they are square and securely interlocked with one another. Remove and replace dented, bent, or kinked members.
F. Install acoustical tiles in coordination with suspension system and exposed moldings and trim. Place splines or suspension-system flanges into kerfed edges of tiles so tile-to-tile joints are interlocked.
1. Fit adjoining tiles to form flush, tight joints. Scribe and cut tiles for accurate fit at borders and around penetrations through ceiling.
2. Hold tile field in compression by inserting leaf-type, spring-steel spacers between tiles and moldings, spaced 12 inches (305 mm) o.c.
3. Protect lighting fixtures and air ducts according to requirements indicated for fire-resistance-rated assembly.
3.4 ERECTION TOLERANCES
A. Suspended Ceilings: Install main and cross runners level to a tolerance of 1/8 inch in 12 feet (3 mm in 3.6 m), non-cumulative.
B. Moldings and Trim: Install moldings and trim to substrate and level with ceiling suspension system to a tolerance of 1/8 inch in 12 feet (3 mm in 3.6 m), non-cumulative.
3.5 ADJUSTING
A. Clean exposed surfaces of acoustical tile ceilings, including trim and edge moldings. Comply with manufacturer's written instructions for cleaning and touchup of minor finish damage.
B. Remove and replace tiles and other ceiling components that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION 09512

PROFESSIONAL SEALS:

STATE OF SOUTH CAROLINA
SSOE, Inc.
Toledo, OH
93001
REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA
ADRIANE M. McGILLIS
Columbia, SC
No. 8163
REGISTERED ARCHITECT

CONSULTANTS:

KEYPLAN

SUBMITTAL/REVISION SCHEDULE:

NO.	DATE	DESCRIPTION
1	11.14.25	PERMIT DRAWINGS

☐ APPROVED FOR CONSTRUCTION
■ NOT APPROVED FOR CONSTRUCTION

CLIENT INFORMATION:

MIDLANDS
TECHNICAL COLLEGE

1260 LEXINGTON DRIVE
WEST COLUMBIA, SC
29170-2176

JHA PROJECT #: H59-6338-SG

PROJECT INFORMATION:

PRESIDENT'S SUITE
RENOVATION
BELTLINE CAMPUS

316 S BELTLINE BLVD
COLUMBIA, SOUTH CAROLINA

SSOE PROJECT #: 025-00554-00
SSOE MANAGER: ADRIANE MCGILLIS

ssoe
1501 Main Street, Suite 730
Columbia, SC 29201
T. (803) 765-0320

SPECS ON SHEETS

GI-401

SECTION 096513 - RESILIENT BASE AND ACCESSORIES

PART 1 - GENERAL
1.1 SUMMARY
A. Section Includes:
1. Traditional rubber base.
2. Molding Accessories.
1.2 ACTION SUBMITTALS (Electronic Submittal)
A. Product Data: For each type of product.
B. PDF image of samples for Verification: For each type of product indicated and for each color, texture, and pattern required in manufacturer's standard-size.
1.3 QUALITY ASSURANCE
A. Installer Qualifications: An entity that employs installers and supervisors who are competent in techniques required by manufacturer for resilient base & accessories.
1.4 WARRANTIES
A. Manufacturer's Standard ten (10) Year Warranty
1.5 DELIVERY, STORAGE, AND HANDLING
A. Store resilient products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 deg F (10 deg C) or more than 90 deg F (32 deg C) with a relative humidity between 40% and 60%.
1.6 FIELD CONDITIONS
A. Maintain ambient temperatures within range recommended by manufacturer, but not less than 65 deg F (18.3 deg C) or more than 85 deg F (29.4 deg C), in spaces to receive resilient products during the following periods:
1. 48 hours before installation.
2. During installation.
3. 48 hours after installation.
B. After installation and until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 55 deg F (13 deg C) or more than 95 deg F (35 deg C).
C. Install resilient products after other finishing operations, including painting, have been completed.

PART 2 - PRODUCTS
2.1 PERFORMANCE REQUIREMENTS
A. Per ASTM E 648 and NFPA 253, Standard Test Method for Critical Radiant Flux: 0.45 watts/cm2 or greater, Class I.
B. Per ASTM E 84, Standard Test Method for Surface Burning Characteristics of Building Materials: Smoke <450.
C. Per ASTM F137 Standard Test Method for Flexibility of resilient Flooring Materials protocols: Does not crack, break or show any signs of fatigue when bent around a 1 ¼" diameter cylinder.
D. Per ASTM F 1515 Standard Test Method for Measuring Light Stability of Resilient Flooring protocols. Meets or exceeds test requirements.
E. Per ASTM F925 Standard Test for Measuring Chemical Resistance, Good.
2.2 THERMOPLASTIC RUBBER BASE (RB-1)
A. Product Standard: ASTM F 1861.
B. Manufacturer: Provide product listed on finish schedule Sheet AE-710.
1. Lengths:
a. Standard: 120' roll goods only. 48" strips are not acceptable and will be rejected.
2. Outside Corners: Mitered per manufacturer's written instructions.
3. Inside Corners: Mitered per manufacturer's written instructions.

2.3 MOLDING ACCESSORIES
A. Transition Strips:
1. Description: Polyvinyl carpet edge for glue-down applications, reducer strips for carpet and resilient floor covering and nosing for resilient flooring.
B. Locations:
1. Provide transition strips at resilient floors to concrete floors, at tile floors to resilient floors and at resilient floors if height is varied.
2. See Section 093013, 096916, 096516 and 096519 for exceptions.
2.4 INSTALLATION MATERIALS
A. Trowelable Leveling and Patching Compounds: Latex-modified, portland-cement-based or blended hydraulic-cement-based formulation. Provide approval by resilient-product manufacturer for applications and products must meet their requirements and be listed in the written installation instructions.
B. Adhesives: As recommended by resilient-product manufacturer for resilient products and substrate conditions indicated. Nosing should attach flush, tight to stair and be fully adhered.
C. Primers: As recommended by resilient-product manufacturer for resilient products and substrate conditions indicated.

PART 3 - EXECUTION
3.1 EXAMINATION
A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient products.
B. Proceed with installation only after unsatisfactory conditions have been corrected.
1. Installation of resilient products indicates acceptance of surfaces and conditions.
3.2 PREPARATION
A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products.
B. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate.
C. Do not install resilient products until materials are the same temperature as space where they are to be installed.
1. At least 48 hours in advance of installation, move resilient products and installation materials into spaces where they will be installed.
D. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient products.
3.3 RESILIENT BASE INSTALLATION
A. Comply with manufacturer's written instructions for installing resilient base.
B. Apply resilient base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required. At cabinets install at exposed sides of cabinets in addition to toe spaces, including exposed sides under counters in knee spaces.
C. Install resilient base in lengths as long as practical without gaps at seams and with tops of adjacent pieces aligned.
D. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.
E. Do not stretch resilient base during installation.
F. On masonry surfaces or other similar irregular substrates, fill voids along top edge of resilient base with manufacturer's recommended adhesive filler material.
G. Where joints are unavoidable, carefully fit the two base pieces together to avoid any gaps.
3.5 RESILIENT ACCESSORY INSTALLATION
A. Comply with manufacturer's written instructions for installing resilient accessories.
B. Resilient Molding Accessories: Butt to adjacent materials and tightly adhere to substrates throughout length of each piece. Install reducer strips at edges of floor covering that would otherwise be exposed.
3.6 CLEANING AND PROTECTION
A. Comply with manufacturer's written instructions for cleaning and protecting resilient products.
B. Perform the following operations immediately after completing resilient-product installation:
1. Remove adhesive and other blemishes from surfaces.
2. Sweep and vacuum horizontal surfaces thoroughly.
3. Damp-mop horizontal surfaces to remove marks and soil.
C. Protect resilient products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.
D. Cover resilient products subject to wear and foot traffic until Substantial Completion.

END OF SECTION 096513

SECTION 096813 – TILE CARPET

PART 1 - GENERAL
1.1 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
1.2 SUMMARY
A. Provide carpet and installation as specified, as indicated on drawings, and as required for proper completion of the Work.
B. Related Sections include the following:
1. Division 9 section: "Tile".
2. Division 9 section "Resilient Tile Flooring".
3. Division 9 section: "Resilient Wall Base and Accessories".
1.3 SUBMITTALS *(Electronic submission)*
B. Product Data: For each type of product indicated, include manufacturer's written data on physical characteristics, durability, and fade resistance, stain resistance, waterproof backing system, antimicrobial system, and installation methods.
C. Signed certification confirming where the submitted materials/products are made.
D. Images of samples: For each of the following products and for each color and texture required. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules.
1. Carpet: 12-inch- square or tile Sample.
2. Metal edge strip 6-inch.
E. Maintenance Data: For carpet products to include in maintenance manuals.
1.4 QUALITY ASSURANCE
A. Installer Qualifications: An experienced installer who is certified by the Floor Covering Installation Board or who can demonstrate compliance with its certification program requirements.
B. Fire-Test-Response Characteristics: Provide products with the critical radiant flux classification indicated in Part 2, as determined by testing identical products per ASTM E 648 by an independent testing and inspecting agency acceptable to authorities having jurisdiction.
1.5 DELIVERY, STORAGE, AND HANDLING
A. Comply with CRI 104, Section 5, "Storage and Handling."
1.6 PROJECT CONDITIONS
A. Comply with CRI 104, Section 6.1, "Site Conditions; Temperature and Humidity" and Section 7.12, "Ventilation."
B. Environmental Limitations: Do not install carpet until wet work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
C. Do not install carpet over concrete slabs until slabs have cured, are sufficiently dry to bond with adhesive, and have pH range recommended by carpet manufacturer.
1.7 EXTRA MATERIALS
A. Furnish extra materials: 5% of installed material
1.8 WARRANTY
A. General Warranty: Special warranty specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
B. Lifetime Warranty against declamation and edge ravel.
C. Special Carpet Tile Warranty: Written warranty, signed by carpet tile manufacturer agreeing to replace carpet tile that does not comply with requirements or that fails within specified warranty period. Warranty does not include deterioration or failure of carpet tile due to unusual traffic, failure of substrate, vandalism, or abuse. Failures include more than 10 percent loss of face fiber, edge raveling, snags, runs, and delamination.
1. Warranty Period: 10 year.

PART 2 - PRODUCTS
2.1 Manufacturers: Basis of Design manufacturer is Mohawk.

2.2 CARPET TILE
A. Manufacturer: Provide product listed on finish schedule Sheet AE-710.
2.3 INSTALLATION ACCESSORIES
A. Trowelable Leveling and Patching Compounds: Latex-modified, hydraulic-cement-based formulation or recommended by carpet manufacturer.
1. Provide trowelable leveling for a smooth level transition between LVT, SDT, and carpet tile.
B. Metal Edge/Transition Strips: Extruded aluminum with mil finish to create a flush transition and to protect exposed edge of carpet, and of maximum lengths to minimize running joints.
C. For Carpet Areas: Full spread adhesives: Water-resistant, mildew-resistant, with anti-microbial resistant, nonstaining type to suit products and subfloor conditions indicated, that complies with flammability requirements for installed carpet and is recommended by carpet manufacturer. If carpet is a peel and stick method, provide carpet rolling per the installation instructions.
1. VOC Limits: Provide adhesives that comply with the following limits for VOC content when tested according to ASTM D 5116:
a. Total VOCs: 10.00 mg/sq. m x h.
b. Formaldehyde: 0.05 mg/sq. m x h.
c. 2-Ethyl-1-Hexanol: 3.00 mg/sq. m x h.

PART 3 - EXECUTION
3.1 EXAMINATION
A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for maximum moisture content, alkalinity range, installation tolerances, and other conditions affecting carpet performance. Examine carpet for type, color, pattern, and potential defects.
B. Concrete Subfloors: Verify that concrete slabs comply with ASTM F 710 and the following:
1. Slab substrates are dry and free of curing compounds, sealers, hardeners, and other materials that may interfere with adhesive bond. Determine adhesion and dryness characteristics by performing bond and moisture tests recommended by carpet manufacturer.
2. Subfloor finishes comply with requirements specified in Division 3 Section "Cast-in-Place Concrete" for slabs receiving carpet.
3. Subfloors are free of cracks, ridges, depressions, scale, and foreign deposits.
C. Proceed with installation only after unsatisfactory conditions have been corrected.
3.2 PREPARATION
A. General: Comply with CRI 104, Section 7.3, "Site Conditions; Floor Preparation," and with carpet manufacturer's written installation instructions for preparing substrates.
B. Use trowelable leveling and patching compounds, according to manufacturer's written instructions, to fill cracks, holes, depressions, and protrusions in substrates. Fill or level cracks, holes and depressions 1/8 inch (3 mm) wide or wider, and protrusions more than 1/32 inch (0.8 mm), unless the manufacturer's written instructions include more stringent requirements. In case of conflict, the more stringent requirement shall govern unless otherwise approved by the Architect.
C. Remove coatings, including curing compounds, and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, without using solvents. Use mechanical methods recommended in writing by carpet manufacturer.
D. Broom and vacuum clean substrates to be covered immediately before installing carpet.
3.3 INSTALLATION
A. Installation Method: According to manufacturer's recommendations.
B. Comply with CRI 104 and carpet manufacturer's written installation instructions for the following:
1. Direct-Glue-Down Installation: Comply with CRI 104, Section 9, "Direct Glue-Down Installation."
C. Comply with carpet manufacturer's written recommendations and Shop Drawings for seam locations and direction of carpet; maintain uniformity of carpet direction and lay of pile. No seams in doorways or thresholds, traffic areas, or main aisle ways.
D. Do not bridge building expansion joints with carpet.
E. Cut and fit carpet to butt tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings. Bind or seal cut edges as recommended by carpet manufacturer.
F. Extend carpet into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.
G. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on finish flooring as marked on subfloor. Use nonpermanent, nonstaining marking device.
H. Install pattern parallel to walls and borders to comply with CRI 104, Section 15, "Patterned Carpet Installations" and with carpet manufacturer's written recommendations.
3.4 CLEANING AND PROTECTING
A. Perform the following operations immediately after installing carpet:
1. Remove excess adhesive, seam sealer, and other surface blemishes using cleaner recommended by carpet manufacturer.
2. Remove yarns that protrude from carpet surface.
3. ,Vacuum carpet using commercial machine with face-beater element.
B. Protect installed carpet to comply with CRI 104, Section 16, "Protection of Indoor Installations."
C. Protect carpet against damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods indicated or recommended in writing by carpet manufacturer and carpet adhesive manufacturer.
D. Comply with requirements of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

END OF SECTION 096813

SECTION 099100 - PAINTING (CONTINUED)

2.3 SOURCE QUALITY CONTROL
A. Testing of Paint Materials: Owner reserves the right to invoke the following procedure:
1. Owner will engage the services of a qualified testing agency to sample paint materials. Contractor will be notified in advance and may be present when samples are taken. If paint materials have already been delivered to Project site, samples may be taken at Project site. Samples will be identified, sealed, and certified by testing agency.
2. Testing agency will perform tests for compliance with product requirements.
3. Owner may direct Contractor to stop applying paints if test results show materials being used do not comply with product requirements. Contractor shall remove noncomplying paint materials from Project site, pay for testing, and repaint surfaces painted with rejected materials. Contractor will be required to remove rejected materials from previously painted surfaces if, on repainting with complying materials, the two paints are incompatible.

PART 3 - EXECUTION
3.1 EXAMINATION
A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows: Gypsum Board: 12 percent.
C. Gypsum Board Substrates: Verify that finishing compound is sanded smooth.
D. Verify suitability of substrates, including surface conditions and compatibility, with existing finishes and primers.
E. Proceed with coating application only after unsatisfactory conditions have been corrected.
1. Application of coating indicates acceptance of surfaces and conditions.
3.2 PREPARATION
A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates and paint systems indicated.
B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.
C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, mildew and incompatible paints and encapsulants.
1. Remove incompatible primers and re-prime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.
D. Concrete Substrates: Remove release agents, curing compounds, efflorescence, and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces to be painted exceeds that permitted in manufacturer's written instructions. Remove all peeling paint and marginally loose paint down to a sound surface. New concrete cure 30 days before application of primers and finish coats. De-gloss all glossy surfaces before application of new paint.
E. Masonry Substrates: Remove efflorescence and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces or mortar joints exceeds that permitted in manufacturer's written instructions.
F. Steel Substrates: Remove rust, loose mill scale, peeling or loose paint and shop primer, if any. Clean using methods recommended in writing by paint manufacturer, but not less than the following:
1. SSPC-SP 2.
2. SSPC-SP 3.
3. SSPC-SP 7/NACE No. 4.
4. SSPC-SP 11.
G. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and areas where shop paint is abraded. Paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.
H. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied paints. Sand edges to remove cratering and clean sanding dust form the surface.
I. Wood Substrates:
1. Scrape and clean knots, and apply coat of knot sealer before applying primer.
2. Sand surfaces that will be exposed to view, and dust off.
3. Remove mill marks and wood grade stamp completely if on exposed surface.
4. Prime edges, ends, faces, undersides, and backsides of wood.
5. After priming, fill holes and imperfections in the finish surfaces with putty or plastic wood filler. Sand smooth when dried.
J. Paintable Insulation Covering Substrates: Remove dust, dirt, and other foreign material that might impair bond of paints to substrates.
3.3 APPLICATION
A. Apply paints according to manufacturer's written instructions and to recommendations in "MPI Manual."
1. Use applicators and techniques suited for paint and substrate indicated.
2. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
3. Paint front and backsides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
4. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
5. Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to topcoat manufacturers.
B. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Tint undercoats to match color of topcoat, but provide sufficient difference in shade of undercoats to distinguish each separate coat.
C. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, droopiness, or other surface imperfections. Cut in sharp lines and color breaks.
E. Do not paint aluminum, brass, bronze, copper, metals with factory applied finishes and insulation with factory finishes unless indicated on drawings.
F. Painting Fire Suppression, Plumbing, HVAC, Electrical, Communication, and Electronic Safety and Security Work:
1. Paint the following work where exposed in equipment rooms:
a. Equipment, including panelboards and switch gear.
b. Uninsulated metal piping.
c. Uninsulated plastic piping.
d. Pipe hangers and supports.
e. Metal conduit.
f. Plastic conduit.
g. Tanks that do not have factory-applied final finishes.
h. Duct, equipment, and pipe insulation having cotton or canvas insulation covering or other paintable jacket material.
2. Paint the following work where exposed in occupied spaces:
a. Equipment, including panelboards.
b. Uninsulated metal piping.
c. Uninsulated plastic piping.
d. Pipe hangers and supports.
e. Metal conduit.
f. Plastic conduit.
g. Duct, equipment, and pipe insulation having paintable jacket material.
h. Other items as directed by Architect.
3. Paint portions of internal surfaces of metal ducts, without liner, behind air inlets and outlets that are visible from occupied spaces.
3.4 FIELD QUALITY CONTROL
A. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test paint for dry film thickness.
1. Contractor shall touch up and restore painted surfaces damaged by testing.
2. If test results show that dry film thickness of applied paint does not comply with paint manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with paint manufacturer's written recommendations.
3.5 CLEANING AND PROTECTION
A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.
3.6 INTERIOR PAINTING SCHEDULE
A. All types in schedule may not be required. Reference paint numbers to Finish Schedule on Drawings. Substrates with undesignated paint numbers to be used as needed.
B. Steel (Ferrous) Substrates Exposed to View:
1. Institutional Low-Odor/VOC Latex System:
a. Prime Coat (1): Primer, rust inhibitive.
SW Pro Industrial Pro-Cryl Universal Primer, B66-310 Series (<96g/L)
b. Finish Coats (2): Acrylic-Alkyd, Interior, water based, Semi-Gloss.
SW ProClassic Interior Acrylic-Alkyd, B34-853 Series (<50g/L)
D. Galvanized-Metal (Non-Ferrous) Substrates:
1. Institutional Low-Odor/VOC Latex System:
a. Prime Coat (1): Primer, rust inhibitive.
SW Pro Industrial Pro-Cryl Universal Primer, B66-301 Series (<96g/L)
b. Finish Coats (2): Latex, Interior, Semi-gloss.
SW ProMar 200 Zero VOC B31-2600 Series (<50g/L) or SW Pro Industrial Zero VOC Acrylic, B66-650 Series
E. Wood Substrates: Wood trim, Paint:
1. Institutional Low-Odor/VOC Latex System:
a. Prime Coat (1): Interior, Latex.
SW Premium Wall & Wood Primer, B28W08111
b. Finish Coats (2): Latex, Interior, Semi-Gloss.
SW ProMar 200 Zero VOC B31-2600 Series (<50g/L)
F. Gypsum Board Substrates, Walls:
1. Institutional Low-Odor/VOC Latex System:
a. Prime Coat (1): Primer, Interior.
SW ProMar 200 Zero VOC Primer, B28W2600 Series (<50g/L)
b. Finish Coats (2): Latex, Interior, Eggshell.
SW ProMar 200 Zero VOC B20-2600 Series (<50g/L)
G. Gypsum Board Substrates, Ceilings:
1. Institutional Low-Odor/VOC Latex System:
a. Prime Coat (1): Primer, Interior, Latex.
SW ProMar 200 Zero VOC Primer, B28W2600 Series (<50g/L)
b. Finish Coats (2): Latex, Interior, Flat.
SW ProMar 200 Zero VOC B30-2600 Series (<50g/L)
H. Gypsum Board Substrates, Walls and Ceilings, Wet Areas:
1. Waterborne Epoxy Low VOC Chemical Resistant System:
a. Prime Coat (1): Primer, Interior, Latex, Antimicrobial.
SW Harmony Wall Primer, A24W8300 B11W1500 Series (<50g/L)
b. Finish Coats (2): Epoxy, Interior, chemical/stain resistant, Eggshell.
c. SW Pro Industrial Water Based Catalyzed Epoxy, K46-150 Series or B73-360 Series (<135g/L) or B73-360 Series
I. Paintable Insulation-Covering Substrates on pipes and ducts coverings:
1. Institutional Low-Odor/VOC Latex System:
a. Prime Coat (1): Primer, Interior, Latex.
SW ProMar 200 Zero VOC Primer, B28W2600 Series (<50g/L)
b. Finish Coats (2): Latex, Interior, Semi-gloss.
SW ProMar 200 Zero VOC B31-2600 Series (<50g/L)
J. Concrete Substrates, Non-traffic Surfaces (as needed):
1. Institutional Low-Odor/VOC System:
a. Prime Coat (1): Acrylic, alkali resistant, efflorescence resistant
SW Loxon Concrete & Masonry Primer/Sealer, LX02W0050 (<50g/L)
b. Finish Coats (2): Acrylic Latex, Exterior, Satin
SW A-100 Exterior Latex Satin, A82 Series, at 4.0 mils (0.102 mm) wet, 1.5 mils (0.038 mm) dry, per coat.

END OF SECTION 099123

SECTION 102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES

PART 1 - GENERAL
1.1 SUMMARY
A. Section Includes:
1. Public-use washroom accessories.
2. Unisex shower room accessories.
1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.
1.4 CLOSEOUT SUBMITTALS
A. Maintenance data.
1.5 WARRANTY
A. Manufacturer's Special Warranty for Mirrors: Manufacturer agrees to repair or replace mirrors that fail in materials or workmanship within specified warranty period.
1. Warranty Period: 1 year from date of Substantial Completion.

PART 2 - PRODUCTS
2.1 PERFORMANCE REQUIREMENTS
A. Structural Performance: Design accessories and fasteners to comply with the following requirements:
1. Grab Bars: Installed units are able to resist 250 lbf (1112 N) concentrated load applied in any direction and at any point.
2. Shower Seats: Installed units are able to resist 360 lbf (1601 N)] applied in any direction and at any point.
2.2 PUBLIC-USE WASHROOM ACCESSORIES
A. Toilet Tissue (Roll) Dispenser:
1. Vendor: As indicated on Drawings
2. Description: Double-roll dispenser with shelf
3. Mounting: Partition mounted
4. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin)
B. Paper Towel (Roll) Dispenser:
1. Vendor: As indicated on Drawings
2. Mounting: Surface mounted.
3. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin)
4. Lockset: Tumbler type.
C. Waste Receptacle:
1. Vendor: As indicated on Drawings
2. Mounting: Undercounter
3. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin)
E. Soap Dispenser:
1. Vendor: As indicated on Drawings
2. Description: Designed for automatic operation and dispensing soap in liquid form.
3. Mounting: Vertically oriented, surface mounted
F. Grab Bar:
1. Bobrick or Equal
2. Mounting: Flanges with concealed fasteners.
3. Material: Stainless steel, 0.05 inch (1.3 mm) thick.
a. Finish: Smooth, ASTM A480/A480M No. 4 finish (satin) on ends and slip-resistant texture in grip area.
4. Outside Diameter: 1-1/2 inches (38 mm).
5. Configuration and Length: As indicated on Drawings.
G. Sanitary-Napkin Disposal Unit:
1. Mounting: Surface mounted.
2. Receptacle: Removable.
3. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin)
H. Mirror Unit:
1. Vendor: As indicated on drawings
2. Description: As indicated on Drawings
3. Size: As indicated on Drawings.
4. Finish: As indicated on Drawings.
I. Robe Hook:
1. Bobrick or Equal.
2. Description: Double-prong unit.
3. Mounting: Concealed.
4. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin).
2.3 FABRICATION
A. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six keys to Owner's representative.

PART 3 - EXECUTION
3.1 INSTALLATION
A. Install accessories in accordance with manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.
1. Remove temporary labels and protective coatings.
B. Grab Bars: Install to comply with specified structural-performance requirements.

END OF SECTION 102800

SSOE®

PROFESSIONAL SEALS:

STATE OF SOUTH CAROLINA
SSOE, Inc.
Toledo, OH
93001
REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA
ADRIANE M. McGILLIS
Columbia, SC
No. 8168
REGISTERED ARCHITECT

CONSULTANTS:

KEYPLAN

SUBMITTAL/REVISION SCHEDULE:

NO.	DATE	DESCRIPTION
1	11.14.25	PERMIT DRAWINGS

□ APPROVED FOR CONSTRUCTION
■ NOT APPROVED FOR CONSTRUCTION

CLIENT INFORMATION:

MIDLANDS TECHNICAL COLLEGE

1260 LEXINGTON DRIVE
WEST COLUMBIA, SC
29170-2176

JHA PROJECT #: H59-6338-SG

PROJECT INFORMATION:

PRESIDENT'S SUITE RENOVATION
BELTLINE CAMPUS

316 S BELTLINE BLVD
COLUMBIA, SOUTH CAROLINA

SSOE PROJECT #: 025-00554-00

SSOE MANAGER: ADRIANE MCGILLIS

SSOE
1501 Main Street, Suite 730
Columbia, SC 29201
T. (803) 765-0320

SPECS ON SHEETS

GI-402

ELECTRICAL SPECIFICATIONS

GENERAL:

THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WORK, EQUIPMENT, SERVICES, LABOR, MATERIALS AND THE LIKE FOR THE INSTALLATION OF COMPLETE AND FUNCTION ELECTRICAL SYSTEMS AS SPECIFIED, SHOWN, OR IMPLIED HEREIN AND ON THE ASSOCIATED DRAWINGS. THE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO INCLUDE EVERY DETAIL OF CONSTRUCTION, MATERIAL AND EQUIPMENT. TAKE FINISH DIMENSIONS AT THE JOB SITE IN LIEU OF SCALING PLANS.

REVIEW THE CONSTRUCTION DOCUMENTS OF ALL TRADES AND COORDINATE WORK WITH THE OTHER TRADES AS REQUIRED TO AVOID CONFLICTS AND INTERFERENCE. THE CONTRACTOR (HENCE FORTH MEANING THE ELECTRICAL CONTRACTOR) SHALL VISIT THE SITE OF PROPOSED CONSTRUCTION PRIOR TO BIDDING AND SHALL FAMILIARIZE HIM/HERSELF WITH ALL EXISTING FIELD CONDITIONS AND SHALL VERIFY ALL ASPECTS OF THE PROPOSED WORK AS DESCRIBED OR IMPLIED BE THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE COMPENSATED OR REIMBURSED FOR WORK NOT NECESSARILY SHOWN ON THE CONTRACT DOCUMENTS THAT COULD HAVE REASONABLY BEEN VERIFIED BY A SITE VISIT.

ALL WORK AND MATERIALS SHALL BE IN COMPLIANCE WITH THE APPLICABLE NATIONAL, STATE AND LOCAL CODES. COMPLIANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS SHALL SERVE AS THE ABSOLUTE MINIMUM STANDARDS. THE REGULATIONS OF THE LOCAL UTILITY SHALL GOVERN SERVICE CONNECTIONS AND METERING PROVISIONS WHERE APPLICABLE. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ANY AND ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATED OF INSPECTIONS AND APPROVAL, AND THE LIKE. THE CONTRACTOR SHALL DELIVER ALL SUCH CERTIFICATED TO THE ARCHITECT. THE ARCHITECT SHALL BE NOTIFIED OF ALL INSPECTION REQUESTS AT THE SAME TIME AS THE INSPECTION AUTHORITY.

LOCATIONS INDICATED FOR OUTLETS, EQUIPMENT, ETC. ARE APPROXIMATE AND SHALL BE VERIFIED BY INSTRUCTION ON THE DRAWINGSAND/OR WITH CONSULTATION WITH THE OWNER. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED SO THAT ALL CODE REQUIRED AND MANUFACTURER RECOMMENDED SERVICE CLEARANCES ARE MAINTAINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING NECESSARY FOR THE PROPER INSTALLATION OF THIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE BY HIM/HERSELF OR HIS/HER WORKERS AND SHALL BE RESPONSIBLE FOR THE REPAIR OF SUCH DAMAGE.

ALL MATERIALS SHALL BE NEW AND SHALL BE LISTED AND LABELED BY THE UNDERWRITER'S LABORATORIES (UL), FOR THE USE INTENDED. PROVIDE NEMA 1 ENCLOSURES FOR ELECTRICAL APPARATUS INSTALLED IN INTERIOR LOCATIONS AND NEMA 3R (WEATHERPROOOF) ENCLOSURES FOR ELECTRICAL APPARATUS INSTALLED IN EXTERIOR LOCATIONS OR WHERE OTHERWISE SUBJECT TO WEATHER OR MOISTURE.

SHOP DRAWINGS AND CATALOG DATA SHALL BE SUBMITTED IN SIX (6) COPIES. SUBMIT SHOP DRAWINGS AND CATALOG DATA FOR PANELBOARDS AND ALL SPECIAL SYSTEMS. SUBMIT BATTERY CALCULATIONS FOR ALL FIRE ALARM AND NURSE CALL SYSTEM MODIFICATIONS. SUBMIT CATALOG DATA ONLY FOR DISCONNECT SWITCHES, CIRCUIT BREAKERS, STARTERS, LIGHT FIXTURES, WIRES AND CABLES, RACEWAYS AND WIRING DEVICES. ALL APPROVALS FOR SUBSTITUTIONSMUST BE OBTAINED BY THE CONTRACTOR TEN (10) CALENDAR DAYS PRIOR TO BID DATE.

A COMPLETE TEST OF ALL EQUIPMENT FURNISHED, INSTALLED OR APPROVED UNDER THIS CONTRACT SHALL BE PROVIDED BY THE CONTRACTOR. TESTING SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL, STATE AND NATIONAL CODES. THE CONTRCTOR SHALL WARRANTY ALL MATERIAL, EQUIPMENT AND WORKMANSHIP SHOWN OR IMPLIED BY THESE DOCUMENTS TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. IF WITHIN ONE YEAR OF THE DATE OF FINAL ACCEPTANCE, ANY WORKMANSHIP, MATERIALS OR EQUIPMENT IS FOUND TO BE FAULTY OR DEFECTIVE, THE CONTRACTOR SHALL CORRECT IT PROMPTLY AT NO COST TO THE OWNER. THE CONTRACTOR SHALL OBTAIN A SIGNED AND NOTORIZED INSPECTION CERTIFICATE OF HIS WORK FROM THE LOCAL BUILDING INSPECTOR AND PRESENT IT TO THE ARCHITECT BEFORE WORK WILL BE APPROVED FOR PAYMENT.

DEMOLITION:

THE DEMOLITION PLANS AND/OR REFERENCES ARE INTENDED TO SHOW THE GENERAL SCOPE OF WORK INVOLVED AND DOES NOT INCLUDE ALL DEVICES, LIGHT FIXTURES AND EQUIPMENT OR COMPLETE DETAILS OF WORK INVOLVED. THE CONTRACTOR, BASED ON HIS/HER EXPERIENCE, SHALL INCLUDE IN THE BID FOR THE WORK A REASONABLE AMOUNT OF RECONNECTION, REINSTALLATION AND DEMOLITION WHICH MAY NOT BE REFLECTED ON THE PLANS OR IN THE SPECIFICATIONS.

MOST EXISTING DEVICES, LIGHT FIXTURES AND EQUIPMENT THAT HAVE BEEN IDENTIFIED FROM THE PROJECT'S RECORD DRAWINGS AND/OR FROM THE A/E FIELD INVESTIGATIONS ARE SHOWN USING STANDARD SYMBOLS ON THE DEMOLITION PLAN. DISCONNECT AND REMOVE ALL EXISTING DEVICES, LIGHTING FIXTURES AND EQUIPMENT SHOWN ON THE DEMOLITION PLAN AS REQUIRED UNLESS SPECIFICALLY NOTED OTHERWISE.

EQUIPMENT, FIXTURES OR DEVICES WHICH ARE EXISTING TO REMAIN SHALL BE SHOWN ON THE RESPECTIVE POWER, LIGHTING OR OTHER APPLICABLE PLAN IN ADDITION TO THE DEMOLITION PLAN. SOME ITEMS WHICH ARE SHOWN TO BE REMOVED WILL BE RELOCATED AND REUSED. THOSE ITEMS WILL BE SHOWN ON RESPECTIVE POWER, LIGHTING OR OTHER APPLICABLE PLAN AND DESIGNATED AS RELOCATED.

MECHANICALLY AND ELECTRICALLY SECURE ALL ELECTRICAL CONDUIT AND CONDUCTORS WHICH ARE ABANDONED. ABANDONED WIRING SHALL BE REMOVED BACK TO THE OVERCURRENT DEVICE WHICH PROTECTS IT. ABANDONED CONDUIT SHALL BE REMOVED BACK TO THE POINT OF CONCEALMENT. EXISTING ELECTRICAL OUTLETS NOT SHOWN AS BEING ABANDONED OR REMOVED SHALL BE RECONNECTED AS REQUIRED. ALL ELECTRICAL DEVICES TO REMAIN SHALL BE INSPECTED, CLEANED AND REPAIRED OR REPLACE AS NECESSARY. MODIFY CIRCUITS TO EXISTING DEVICES, LIGHT FIXTURES AND EQUIPMENT TO REMAIN IN ORDER TO MAINTAIN CONTINUITY OF POWER AND GROUNING. RECONNECT CIRCUITS TO LOADS IN OTHER AREAS OF THE BUILDING OR SITE WHICH ARE AFFECTED BY ELECTRICAL DEMOLITION.

PROVIDE NEW, REVISED, TYPE WRITTEN PANELBOARD DIRECTORIES FOR EXISTING PANELBOARDS TO REFLECT NEW CIRCUIT CONDITIONS AS A RESULT OF CONSTRUCTION AND DEMOLITION. REPLACE ALL EXISTING DEVICES AND THE ASSOCIATED COVER PLATES WITH NEW DEVICES AND COVER PLATES TO MATCH THAT USED FOR RENOVATED AREAS AND NEW CONSTRUCTION. WHERE NEW FINISHED ARE PLACED ON OR OVER EXISTING FINISHES, EXTEND OUTLET BOXES TO ACCOMMODATE THE NEW FINISHES. EXISTING CONDUIT AND CONDUCTORS MAY BE REUSED WHERE THEY ARE OF THE TYPE SPECIFIED, MEET THE REQUIREMENTS OF THE NEW CIRCUITS AND ARE IN GOOD CONDITION.

GROUNDING:

GROUNDING SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE AND WITH DETAILS SHOWN ON PLANS. GROUNDING FOR CIRCUITS SERVING LIGHTING, OUTLETS OR EQUIPMENT IN PATIENT CARE AREAS SHALL COMPLY WITH NEC ARTICLE 517 AND SHALL INCLUDE A GREEN COPPER GROUNDING CONDUCTOR (#12 AWG MINIMUM) CONNECTED TO THE GROUND BAR IN THE SERVING PANELBOARD. GROUNDING SHALL BE TESTS AS REQUIRED IN NEC 517 AND NFPA 99, CHAPTER 3. TEST RESULTS SHALL BE TABULATED AND SENT TO THE ENGINEER. PANELBOARDS SHALL BE GROUNDED AS REQUIRED BY NEC 250 AND 517. THE GROUNDING TERMINAL BUS OF PANELBOARDS SERVING THE SAME PATIENT VICINITY SHALL BE BONDED TOGETHER WITH 1 #10 AWG MINIMUM INSULATED, GREEN CONTINUOUS CONDUCTOR.

CONDUIT:

CONDUITS AND RACEWAYS SHALL BE BY REPUBLIC OR EQUAL.

CONDUIT SHALL BE MINIMUM ¾ INCH SIZE, ZINC-COATED ELECTRICAL METALLIC TUBING (EMT) EXCEPT IN WET, DAMP OR WASHDOWN LOCATIONS (INCLUDING KITCHENS) WHERE GALVANIZED RIGID STELL CONDUIT (GRS) OR INTERMEDIATE METAL CONDUIT (IMC) SHALL BE USED. EMT SHALL CONFORM TO UL 1242, NEC 342 AND ANSI C80.3; GRS SHALL BE SCHEDULE 40 STEEL WITH SURFACES PROTECTED BY METALLIC ZINC COATING AND SHALL CONFORM TO ANSI C80.1

EMT FITTINGS SHALL BE GALVANIZED, STEEL COMPRESSION TYPE. EMT CONNECTORS SHALL HAVE INSULATED THROATS WHICH ARE INTEGRAL TO THE CONNECTOR. USE OF INSULATING SLEEVES IS NOT PERMITTED. GRS OR IMC CONDUIT ENTERING A BOX OR ENCLOSURE SHALL BE TERMINATED WITH A BUSHING. INSTALL BOND BUSHINGS WHERE REQUIRED BY THE NEC. FLEXIBLE CONDUIT CONNECTORS THE BE T&B NYLON INSULATED "TITE-BITE". INSTALL FLEXIBLE CONDUIT FOR ALL FINAL CONNECTIONS TO MOTORS, TRANSFORMERS AND TO OTHER EQUIPMENT, DEVICES AND APPLIANCES WHERE SUBJECT TO VIBRATION. USE LIQUID-TIGHT, FLEXIBLE CONDUIT IN LOCATIONS SUBJECT TO MOISTURE.

SECURE CONDUITS WITH STRAPS AND CLAMPS MANUFACTRED FOR THE PURPOSE. TIE WIRE AND TIE WRAPS ARE NOT PERMITTED TO SUPPORT OR SECURE CONDUITS. UNLESS OTHERWISE NOTED, ALL CONDUITS SHALL BE RUN CONCEALED. CONDUITS SHALL BE RUN PARALLEL OR PERPINDICULAR TO STRUCTURAL ELEMENTS AND SHALL BE RUN IN GROUPS. WHERE ROUTED AT THE ROOF OR CEILING, GROUPINGS SHALL BE SINGLE DEPTH AND RUN TIGHT TO STRUCTURE. FOR MULTIPLE DEPTH GROUPINGS AND OTHER SITUATIONS, A TRAPEZE ARRANGEMENT USING THREADED ROD OR SUFFICIENT SUPPORTING STRENGTH WILL BE PERMITTED. ALL CONDUITS SHALL BE KEPT A MINUMU OF 6-INCHES AWAY FROM PARALLEL RUNS OF STEAM OR HOT WATER PIPES AND FLUES. PROVIDE APPROVED SEALS FOR ALL WORK INSTALLED IN HAZARDOUS AREAS AS REQUIRE BY NEC.

PROVIDE ACCESS DOORS IN WALLS AND CEILINGS FOR ACCESS TO PULL BOXES, ACCESSORIES, ETC., UNDER THE ELECTRICAL CONTRACT. DOORS SHALL BE SIZED AS REQUIRED (MINIMUM 16-INCHES X 16-INCHES) WITH A FINISH TO MATCH THAT OF THE SURFACE IN WHICH IT IS INSTALLED.

PROVIDE MINIMUM 100 POUND TEST, NYLON PULL CORDS IN ALL EMPTY CONDUITS. CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS OR FLOORS SLABS SHALL BE SEALED WITH IMPERVIOUS, NON-COMBUSTIBLE MATERIALS IN SUCH A MANNER THAT THE ORIGINAL FIRE RATING IS RESTORED. CONDUIT PENETRATING BLOCK WALLS SHALL BE SLEEVED AND THEN SEALED. SEAL ALL WALL AND FLOOR PENETRATIONS LEFT ONCE CONDUIT TO BE DEMOLISHED HAS BEEN REMOVED. PROVIDE A UL THROUGH FIRE STOP PENETRATION SYSTEM FOR ALL CONDUITS/RACEWAYS THAT PENETRATE RATED WALLS AND FLOORS. SEE ARCHITECTURAL PLANS FOR LOCATIONS AND RATING OF FIRE RATED WALLS AND FLOORS.

OUTLET BOXES SHALL BE STANDARD GALVANIZED SHEET STEEL WITH STAMPED KNOCKOUTS EXCEPT THAT CAST TYPE BOXES SHALL BE USED IN INTERIOR WET LOCATIONS, ON THE EXTERIOR OF THE BUILDING AND FOR EXPOSED WORK IN UNFINISHED AREAS. COVERS CAST BOXES IN WET AND EXTERIOR LOCATIONS SHALL BE GASKETED. MULTI-GANG BOXES SHALL BE OF SINGLE PIECE CONSTRUCTION. PULL BOXES SHALL BE CONSTRUCTED OF CODE GAUGE, GALVANIZED STEEL METAL AND HAVE CONTINUOUS WELDED SEAMS. PULL BOXES SHALL COMPLY WITH NEC ARTICLE 370.

FLOOR BOXES SHALL BE CAST IRON, FULLY ADJUSTABLE, WATERPROOF WITH THREADED RACEWAY ENTRANCES, ADJUSTING RINGS, GASKETS AND BRASS FLOOR PLATES. PROVIDE HINGED OUTLET COVERS FOR EACH DEVICE. MANUFACTURERS SHALL BE HUBBELL OR STEEL CITY.

WIRING:

POWER WIRING SHALL BE HI-TECH, ROME, SOUTHWIRE, TRIANGLE OR APPROVED EQUAL. CONDUCTORS FROM ALL ISOLATION PANELS TO DEVICES/EQUIPMENT SHALL UTILIZE LOW-LEAKAGE TYPE INSULATION WITH A DIELECTRIC CONSTANT LESS THAN 3.5 AND INSULATION RESISTANCECONSTANT GREATER THAN 20,000 MEGAOHM-FEET AT 60 DEGREES F. (SOUTHWIRE XLP-XHHW-2 OR EQUAL). INSTALLATION OC CONDUCTORS SHALL BE PERFORMED WITHOUT USING WIRE PULLING COMPOUNDS THAT INCREASE THE DIELECTRIC CONSTANT OF THE WIRE/CABLE PER NEC 517. COLOR CODING OF ISOLATION PANEL BRANCH CIRCUIT CONDUCTORS SHALL BE ORANGE WITH A DISTINCTIVE COLORED STRIP OTHER THAN WHITE, GREEN OR GRAY PER NEC 517.

CONDUCTORS (OTHER THAN THOSE SERVING ISOLATION PANELS) SHALL BE COPPER, THW OR THHN/THWN, SOLID FOR CONDUCTORS SMALLER THAN #10 AWG AND STRANDED FOR LARGER SIZE CONDUCTORS. POWER FEEDERS ORIGINATING FROM THE DISTRIBUTION SECTION OF MAIN SWITCHGEAR SHALL BE TYPE XHHW OR THHN. ALL 120/208 VOLT ALTERNATING CURRENT (VAC) CONDUCTOR SHALL BE COLOR CODED BLACK, RED, BLUE, WHITE AND GREEN FOR PHASES A, B, C, NEUTRAL AND GROUND RESPECTIVELY. ALL 277/480V ALTERNATING CURRENT (VAC) CONDUCTORS SHALL BE COLOR-CODED BROWN, ORANGE, YELLOW, GRAY AND GREEN FOR PHASES A, B, C, NEUTRAL AND GROUND RESPECTIVELY. ISOLATED GROUND CONDUCTORS SHALL CONTAIN AND INTEGRALLY PIGMENTED, YELLOW STRIPE ALONG THE ENTIRE LENGTH OF THE CONDUCTOR. LOW VOLTAGE CONDUCTORS SHALL BE SOLID OR STRANDED AS REQUIRED BY THE EQUIPMENT/SYSTEM MANUFACTURER.

ALL CONDUCTORS AND CABLES SHALL BE INSTALLED IN RACEWAYS EXCEPT AS FURTHER SPECIFIED HEREIN OR ON THE DRAWINGS. CONDUCTOR SIZES INDICATED ON CIRCUIT HOMERUNS OR IN PANELBOARD SCHEDULES SHALL BE INSTALLED OVER THE ENTIRE LENGTH OF THE CIRCUIT UNLESS NOTED OTHERWISE ON THE DRAWINGS. IT SHALL NOT BE PERMISSIBLE TO COMBINE CIRCUIT HOMERUNS INTO A SINGLE RACEWAY UNLESS SPECIFICALLY SHOWN ON PLANS AND NO MORE THAT THREE PHASE CONDUCTORS ARE PERMITTED TO BE INSTALLED IN A SINGLE RACEWAY. ONLY ONE CIRCUIT PER CONDUIT SHALL BE ALLOWED FOR ISOLATION CIRCUITS. ISOLATION CORCUITS SHALL BE RUN IN A MANNER TO PROVIDE THE SHORTEST DISTANCE.

VOLTAGE DROP:

VOLTAGE DROP VALUES ARE 3% MAXIMUM ON BRANCH CIRCUITS AND 2% MAXIMUM FOR FEEDERS.

ELECTRICAL CONDUCTORS SHAL BE TESTED FOR CONTINUITY AND GROUNDS BEFORE BEING ENERGIZED. ALL FAULTY CONDUCTORS SHALL BE REPLACED. CONNECT ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS EXCEPT CONTROL CONDUCTORS FOR EQUIPMENT NOT PROVIDED UNDER DIVISION 16. CONTROL CONDUCTOR CONNECTIONS NOT PROVIDED UNDER DIVISION 16 SHALL BE DONE BY THE RESPECTIVE CONTRACTOR IN ACCORDANCE WITH THE SPECIFICATIONS. MAKE ALL FINAL POWER CONNECTIONS TO EACH RESPECTIVE LOAD TO ACHIEVE FULL ENERGIZATION OF THE LOAD. THIS INCLUDES WIRING THROUGH ANY INTEGRL DISCONNECT DEVICE AND/OR CONTROL CABINET FURNISHED AS PART OF THE RESPECTIVE EQUIPMENT. COORDINATE THE POWER AND CONNECTION REQUIREMENTS FOR EQUIPMENT FURNISHED BY CONTRACTORS OF OTHER DIVISIONS. VERIFY THAT THE CIRCUITRY SHOWN FOR EACH LOAD MATCHES THE LOAD'S ACTUAL REQUIREMENTS SHOWN ON THE NAMEPLATE DATA OR MANUFACTURER'S PUBLISHED CRITERIA. INFORM THE ARCHITECT IF ADJUSTMENTS TO CONDUIT, WIRING, FUSE SIZES, ETC. ARE NEEDED TO MEET THE LOAD'S ACTUAL REQUIREMENTS. CHANGES TO EQUIPMENT DUE TO AN APPROVED SUBSTITUTION OR OTHERWISE NECESSARY TO SUIT A MANUFACTURER'S NEED SHALL INCLUDE THE COST BY THE MANFACTURER FOR MAKING THE ELECTRICAL CHANGES.

THE CONDUIT OF THE ELECTRICAL SYSTEMS AND ALL ELECTRICAL EQUIPMENT SHALL BE GROUNDED. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR WITH EVERY CIRCUIT AND IN EVERY CONDUIT. THE CONDUIT SYSTEM AND NEUTRAL (GROUNDED CONDUCTOR) SHALL BE BONDED TOGETHER ONLY AT THE SERVICE ENTRANCE EQUIPMENT. GROUNDING AT THE SERIVCE ENTRANCE SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250. NO CONDUIT SHALL CONTAIN MORE THE THREE PHASE CONDUCTORS.

DEVICES:

WIRING DEVICES SHALL BE BY HUBBELL, PASS & SEYMOUR OR ARROW-HART.
ALL WIRING DEVICES SHALL BE HOSPITAL GRADE. THE COLOR SHALL BE SELECTED BY THE ARCHITECT, FROM THE MANUFACTURER'S STANDARD COLORS DURING SHOP DRAWING REVIEW. COLORS SHALL INCLUDE BROWN, IVORY, GRAY AND WHITE AS A MINIMUM. ALL DEVICES CONNECTED TO THE EMERGENCY POWER SYSTEM SHALL BE RED. DEVICE PLATES FOR FLUSH MOUNTED DEVICES SHALL BE STANDARD SIZE, TYPE 302, SATIN STAINLESS STELL EQUAL TO HUBBELL'S "S" SERIES. PROVIDE OVERSIZE PLATES FOR DEVICES INSTALLED IN CONCRETE BLOCK, BRICK OR STONE CONSTRUCTION.

RECEPTACLES, PLUGS, AND PLUG CONNECTORS SHALL BE HEAVY-DUTY, COMMERCIAL, HOSPITAL GRADE. THE BODY SHALL BE CONSTRUCTED OF THERMOPLASTIC (NYLON, LEXAN) MATERIAL. RECEPTACPES SHALL BE NON-INTERCHANGEABLE TYPES OF STANDARD NEMA CONFIGURATION AS INDICATED ON THE DRAWINGS. COMPLY WITH THE RESPECTIVE ANSI C73 SERIES STANDARD FOR THE NEMA CONFIGURATION USED. RECEPTACLES SHALL BE UL LISTED AND LABELED AND SHALL CONFORM TO NEMA STANDARD NO. WD1-101968. ALL DEVICES SHALL BE LABELED PER MUSC ENGINEERING STANDARDS.

DUPLEX RECEPTACLES SHALL BE OF THE GROUNDING, POWER INDICATING TYPE, ARRANGED FOR BACK SIDE WIRING WITH SPRING-BACKED LINE TERMINALS AND SEPARATE SINGLE OR DOUBLE GROUNDING TERMINALS. DUPLEX RECEPTACLES SHALL BE RATED FOR 20 AMP, 125 VOLT OPERATION AND THE FACE CONFIGURATION SHALL CONFORM TO THE NEMA STANDARD NO. WDI-101968. A SEPARATE GROUNDING SCREW TERMINAL SHALL BE PROVIDED WITH A DIRECT CONNECTION MADE TO A GRENN, INSULATED EQUIPMENT GROUNDING CONDUCTOR WHICH IS PART OF THE EQUIPMENT GROUNDING SYSTEM. SELF GROUNDING OR AUTOMATIC GROUNDING TYPE RECEPTACLES ARE NOT ACCEPTABLE.

GROUND FAULT CIRCUIT INTERRUPTING DUPLEX RECEPTACLES SHALL BE SELF-CONTAINED, NEMA 5-20R, HEAVY-DUTY, HOSPITAL GRADE WITH FEED-THRU FEATURE TO PROTECT DOWNSTREAM DEVICES ON THE SAME CIRCUIT. SURGE SUPPRESSOR RECEPTACLES SHALL BE PERMANENTLY CONNECTED, FLUSH MOUNTED TYPE AND PROVIDE PROTECTION OF NOT LESS THAN 80 JOULES IN ALL THREE MODES: HOT TO NEUTRAL, NEUTRAL TO GROUND AND HOT TO GROUND. EACH MODE SHALL UTILIZE A SEPARATE MOV TO ACCOMPLISH PROTECTION AND AN INTEGRAL INDICATING LIGHT SHALL BE INCLUDED IN EACH DEVICE.

HOSPITAL GRADE RECEPTACLE SHALL BE RATED FOR THE USE, MEETING ALL UL REQUIREMENTS FOR HOSPITAL GRADE RECEPTACLES. THEY SHALL BE IN COMPLIANCE WITH THE LATEST FEDERAL SPECIFICATIONS WC-596-F. HOSPITAL GRADE RECEPTACLES SHALL BE IDENTIFIED WITH THE STANDARD HOSPITAL GRADE SYMBOL ENGRACED ON THE FACE. THE FACE OF RECEPTACLES CONNECTED TO CRITICAL BRANCH CIRCUIT SHALL BE RED IN COLOR.

SWITCHES PROVIDED FOR CONTROLLING LIGHT FIXTURES SHALL BE THERMOPLASTIC, HEAVY-DUTY, HOSPITAL GRADE. SWITCHES SHALL BE ARRANGED FOR BACK AND SIDE WIRING AND SHALL HAVE A GROUNDING TERMINAL. SWITCHES SHALL BE VIRTUALLY SILENT OPERATING, NON-INTERCHANGEABLE, FLUSH MOUNTED TYPES WHICH SHALL COMPLY WITH NEMA WD-1. LIGHT SWITCHED CONTROLLING LIGHT FIXTURES ON EMERGENCY POWER SHALL HAVE HANDLES WHICH ARE ILLUMINATED IN THE "OFF" POSITION. SWITCHES SHALL BE UL LISTED AND LEBELED FOR OPERATION AT THE VOLTAGE AND AMPERAGES NECESSRY FOR THE USE INTENDED. NO 120 VOLT OR 277 VOLT SWITCH SHALL BE RATED LESS THAN 20 AMPERES.

POWER EQUIPMENT:

POWER EQUIPMENT SHAL BE SQUARE D OR GENERAL ELECTRIC.

PANELBOARD TYPES: 100A-225A, 120/208V SQUARE D, NQOD OR EQUAL; 100A-225A, 277/480V SQUARE D NEHB OR EQUAL; 400A-800A, SQUARE D I-LINE OR EQUAL.

PANELBOARDS SHALL BE DEAD-FRONT, SAFETY TYPE AND FULLY RATED FOR THE MINIMUM INTERRUPTING CAPACITY AS INDICATED ON PLANS. SERIES RATED PANELBOARDS ARE NOT PERMITTED. EXISTING PANELBOARD DIRECTORIES SHALL BE UPDATED WITH NEW DIRECTORIES TO SHOW ALL CIRCUIT ADDITIONS AND DELETIONS. ALL DIRECTORIES SHALL BE TYPED. PROVIDE CONCEALED, 5-KNUCKLE, STEEL HINGED COVERS WITH LOCKS FOR ALL PANELBOARDS TO ALLOW COMPLETE ACCESS TO INTERIOR WITHOUT REMOVING PANEL COVER. ALL LOCKS SHALL BE KEYED ALIKE ACCORDING TO OWNER REQUIREMENTS.

ALL CIRCUIT BREAKERS SHALL BE MOLDED CASE, BOLT-ON, AUTOMATIC THERMAL MAGNETIC TYPE CALIBRATED FOR 40 DEGREES C OR AMBIENT COMPENSATING. PANELBOARDS SHALL HAVE FULL HEIGHT, COPPER BUSSING, FULL-SIZE NEUTRAL. ALL CIRCUIT BREAKER TERMINAL SHALL BE RATED FOR 75 DEGREE C. MULTI-POLE BREAKERS SHALL HAVE A COMMON INTERNAL TRIP. HANDLE-TIES BETWEEN SINGLE POLE BREAKERS ARE NOT PERMITTED FOR MULTI-PHASE BREAKERS. WHERE MULTI-WIRE BRANH CIRCUITS ARE INDICATED TO BE IN A COMMON RACEWAY, PROVIDE HANDLE-TIES SPANNING ALL CIRCUIT BREAKERS FEEDING THE UNGROUNDED, MULTI-WIRE BRANCH CIRCUIT PHASE-CONDUCTORS, IN ACCORDANCE WITH NEC 210.4. ISOLATED GROUND PANELBOARDS SHALL BE PROVIDED WITH AN ADDITIONAL GROUND BUS INSULATED FROM PANEL ENCLOSURE AND NEUTRAL BUS RATED AT 200% OF PHASE BUS CURRENT RATING. CONDUCT LOAD-BALANCING MEASUREMENTS FOR EACH PHASE IN EACH PANELBOARD AND FORWARD TO THE ELECTRICAL ENGINEER.

SAFETY SWITCHES SHALL BE HEAVY-DUTY, QUICK-MAKE, QUICK-BREAK TYPES WITH RATINGS AS DENOTED ON THE DRAWINGS. PROVIDE GROUND BUS, SOLID NEUTRAL (WHEN REQUIRED), CLASS RK-5 DUAL ELEMENT, TIME DELAY FUSES, AND NEMA RATED ENCLOSURE. MOTOR STARTERS FOR THREE-PHASE MOTORS SHALL BE FULL-VOLTAGE, NON-REVERSING, MAGNETIC WITH LONG LIFE PILOT LIGHTS, HAND-OFF-AUTO SELECTOR SWITCH. MANUAL MOTOR STARTERS SHALL BE MOTOR SENTINEL TYPE WITH PROPERLY SIZED OVERLOAD HEATERS AND DISCONNECT SWITCH (TOGGLE-TYPE) MOUNTING IN A NEMA RATED ENCLOSURE.

LIGHTING EQUIPMENT:

PROVIDE LIGHT FIXTURES AS SCHEDULED/SPECIFIED ON THE DRAWINGS OF SIZES, TYPES AND RATINGS INDICATED; COMPLETE BUT NOT LIMITED TO HOUSING, LAMPS, DRIVERS, REFLECTORS, WIRING, MOUNTING HARDWARE AND THE LIKE. CATALOG NUMBERS ARE FOR GENERAL IDENTIFICATION OF FIXTURES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE COMPLETE CATALOG NUMBERS AND TO PROVIDE ALL ACCESSORIES FOR A COMPLETE INSTALLATION AS IMPLIED BY THE ACCOMPANYING DESCRIPTION OF THE LIGHT FIXTURE, THE DEMONSTRATED USE ON THE DRAWINGS AND THE SPECIFICATIONS CONTAINED HEREIN. ALL LIGHTING FIXTURES SHALL BE UL LABELED. THE LABEL SHALL BE PERMANENTLY ATTACHED TO THE FIXTURE FRAME, HOUSING OR OTHER NON-RENEWABLE COMPONENT. PROVIDE FIXTURES AND/OR FIXTURE OUTLET BOXES WITH HANGERS TO PROPERLY SUPPORT FIXTURE WEIGHT. FASTEN LIGHT FIXTURES AND LIGHT FIXTURE SUPPORTS SECURELY TO BUILDING STRUCTURAL MEMBERS. IT IS NOT PERMISSIBLE TO RELY ON SUSPENDED CEILINGS AS THE SOLE MEANS OF SUPPORT FOR LIGHT FIXTURES. REFER TO ARCHITECTURAL CEILING PLANS FOR CEILING TYPE AND PROVIDE LIGHT FIXTURES WHICH ARE COMPATIBLE WITH THE SURFACE OR CEILING IN OR ON WHICH IT WILL BE INSTALLED, DO NOT DEPEND ON CATALOG NUMBERS FOR SUCH INFORMATION. VOLTAGES OF ALL LIGHT FIXTURES SHALL BE DETERMINED BY THE CIRCUIT TO WHICH EACH FIXTURE IS CONNECTED. SEE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL REQUIREMENTS.

FIRE ALARM SYSTEM:

SPECIAL SYSTEMS CABLES (FIRE ALARM) SHALL BE BY BELDEN, ALPHA OR CONSOLIDATED.

PROVIDE MODIFICATIONS TO EXISTING FIRE ALARM SYSTEM AS REQUIRED TO ACCOMMODATE THE ADDITION, DELETION AND/OR RELOCATION OF EXISTING DEVICES IN THE AREA OF WORK. FIRE ALARM SYSTEM INSTALLATION/MODIFICATIONS SHALL COMPLY WITH ALL NFPA 72, NFPA 99 AND NFPA 101 REQUIREMENTS. COMPLETE INSTALLATION AND SYSTEM TESTING SHALL BE UNDER THE SUPERVISION OF A FACTORY TRAINED AND AUTHORIZED REPRESENTATIVE OF THE EQUIPMENT MANUFACTURER. NEW NOTIFICATION DEVICES SHALL BE TIED INTO EXISTING NOTIFICATION APPLIANCE CIRCUITS THAT WERE FEEDING THE AREA PRIOR TO DEMOLITION. NEW DETECTION DEVICES SHALL BE TIED INTO EXISTING INITIATING DEVICE CIRCUITS THAT WERE FEEDING THE AREA PRIOR TO DEMOLITION. TEST ALL NEW DEVICES IN ACCORDANCE WITH NFPA REQUIREMENTS AND PROVIDE A CERTIFICATE OF COMPLETION TO THE OWNER.

TELECOMMUNICATIONS SYSTEMS:

PROVIDE A SYSTEM OF EMPTY CONDUITS AND SYSTEM OUTLET BOXES TO ACCOMMODATE INSTALLATION OF THE OWNER'S TELECOMMUNICATIONS SYSTEM. THE RACEWAY SYSTEM SHALL COMPLY WITH EIA/TIA 568 AND 569 STANDARDS.

OTHER REQUIREMENTS:

PROVIDE ENGRAVED, PHENOLIC NAMEPLATES FOR ALL EQUIPMENT. COORDINATE SIZE AND INFORMATION WITH HOSPITAL'S ENGINEERING GROUP. NAMEPLATES SHALL BE PERMANENTLY ATTACHED TO THE EQUIPMENT USING METAL RIVETS. THE CONTRACTOR SHALL FURNISH AND INSTALL ANY MISCELLANEOUS METAL OR WOOD SUPPORTS, FASTENERS, MOUNTS, HANGERS, SIDE BRACES AND THE LIKE, WHICH MAY BE REQUIRED TO SECURELY ANCHOR AND SUPPORT ELECTRICAL EQUIPMENT FURNISHED UNDER THIS CONTRACT.

TESTING:

THE CONTRACTOR SHALL TEST ALL "LIFE SAFETY" EQUIPMENT AND SYSTEMS FOR PROPER FUNCTION AND OPERATION. THE CONTRACTOR SHALL PROVIDE WRITTEN CONFIRMATION OF THE TEST TO THE ENGINEER STATING THE TEST PERFORMED, THE RESULTS OF THE TEST AND THE DATE OF THE TEST. "LIFE SAFETY" EQUIPMENT AND SYSTEMS ARE SPECIFIED IN NFPA 101.

PROVIDE VIBRATION AND SEISMIC CONTROLS FOR ELECTRICAL SYSTEMS. HIRE A PROFESSIONAL ENGINEER SPECIALIZING IN DESIGN OF SEISMIC RESTRAINTS TO DESIGN ALL SUPPORTS FOR ALL ELECTRICAL EQUIPMENT AND RACEWAY SYSTEMS REQUIRED BASED ON SITE CONDITIONS, BUILDING CATEGORY AND MAPPED SPECTRAL RESPONSE VALUES. COMPLY WITH ALL REQUIREMENTS OF IBC AND ASCE/SEI 7-10. ASSUME SITE CLASS "D", DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS (0.02 SECOND) PER IBC FIGURE 16.13.3.1(1). DESIGN SPECTRAL RESPONSE ACCELERATION 1.0 SECOND PERIOD PER IBC FIGURE 16.13.3.1(2). SEISMIC DESIGN CATEGORY SHALL BE DETERMINED BASED ON SPECTRAL RESPONSE VALUES AND BUILDING CATEGORY AS INDICATED IN IBC 16-1613. MEET COMPONENT IMPORTANCE FACTOR, COMPONENT RESPONSE MODIFICATION FACTOR AND COMPONENT AMPLICATION FACTOR SPECIFIED IN ASCE/SE1 7-10 AND AT A MINIMUM COMPONENT IMPORTANCE FACTOR 1.5, COMPONENT RESPONSE MODIFICATION FACTOR 3.5, COMPONENT AMPLIFICATION FACTOR 2.5. PROVIDE SUBMITTALS WITH ENGINEER QUALIFICATIONS, DESIGN CALCULATIONS AND SEISMIC RESTRAINT DETAILS. VIBRATIONS ISOLATORS AND SEISMIC RESTRAINT DEVICES SHALL BE AMBER/BOOTH COMPANY OR EQUAL.

PROFESSIONAL SEALS:

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STATE OF SOUTH CAROLINA — ADRIANE M. McGILLIS Columbia, SC No. 8163 — REGISTERED ARCHITECT

CONSULTANTS:

KEYPLAN

SUBMITTAL/REVISION SCHEDULE:

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☐ APPROVED FOR CONSTRUCTION
■ NOT APPROVED FOR CONSTRUCTION

CLIENT INFORMATION:

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JHA PROJECT #: H59-6338-SG

PROJECT INFORMATION:

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RENOVATION
BELTLINE CAMPUS

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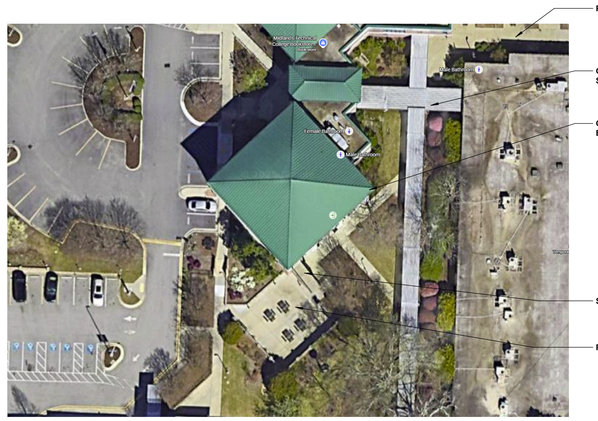
SPECS ON SHEETS
ELECTRICAL

GI-403

BOARD ROOM - STOREFRONT SYSTEM - BALCONY DOOR

BOARD ROOM - STOREFRONT SYSTEM - BALCONY DOOR



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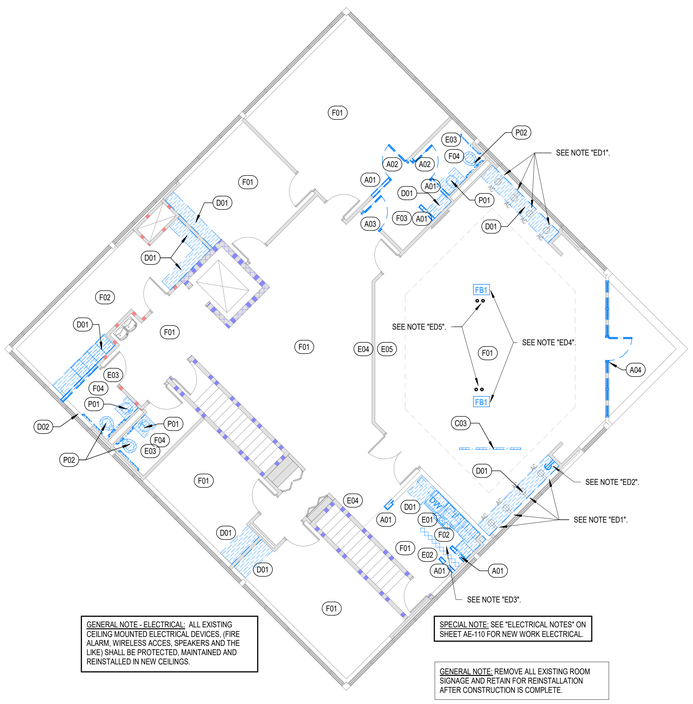

1 DEMOLITION FLOOR PLAN

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

2 DEMOLITION REFLECTED CEILING PLAN

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

DEMOLITION LEGEND

C01	DEMOLITION KEYNOTE - SEE DEMOLITION KEYNOTE LEGEND
	AREA OF "NO WORK"
	AREA OF DEMOLITION AS DESCRIBED
	CONSTRUCTION TO BE DEMOLISHED (PLAN) [SEE KEYNOTES FOR MORE DETAIL]
	CONSTRUCTION TO BE DEMOLISHED (ELEV) [SEE KEYNOTES FOR MORE DETAIL]
	EXISTING EXTERIOR CONSTRUCTION (PLAN)
	EXISTING INTERIOR NON-RATED CONSTRUCTION
	EXISTING INTERIOR 1 HOUR CONSTRUCTION
	EXISTING INTERIOR 2 HOUR CONSTRUCTION

DEMOLITION KEYNOTE LEGEND

KEYNOTE #	DESCRIPTION
WALLS AND DOORS	
A01	REMOVE EXISTING WALL TO THE EXTENT SHOWN ON PLANS. PREPARE ADJACENT FLOORS AND WALLS TO RECEIVE NEW FINISHES.
A02	REMOVE EXISTING DOOR AND ASSOCIATED FRAME. PREPARE ADJACENT FLOORS AND WALLS TO RECEIVE NEW FINISHES.
A03	REMOVE EXISTING DOOR AND ASSOCIATED FRAME. PREPARE ADJACENT FLOORS AND WALLS TO RECEIVE NEW FINISHES. RESERVE DOOR AND HARDWARE FOR RE-INSTALLATION AS SHOWN AT RENOVATION PLAN.
A04	REMOVE EXISTING STOREFRONT & DOOR. PREPARE ADJACENT FLOORS AND WALLS TO RECEIVE NEW FINISHES. GC TO PROVIDE MOVE-OUT SERVICES FOR FURNITURE - SEE SPECIFICATION 011000 FOR MORE INFORMATION.:.
CEILINGS	
C01	REMOVE ACOUSTICAL PANEL CEILING COMPLETELY. CAP ANY UTILITIES AS REQUIRED - SEE PLUMBING AND ELECTRICAL DRAWINGS FOR MORE INFORMATION. PREPARE ADJACENT WALL FACES TO RECEIVE NEW FINISHES AS SPECIFIED.
C02	REMOVE WOOD CROWN MOULDING COMPLETELY. PREPARE ADJACENT WALL SURFACES TO RECEIVE NEW FINISHES AS SPECIFIED.
C03	REMOVE EXISTING PROJECTION SCREEN AND ASSOCIATED COMPONENTS COMPLETELY. PREPARE ADJACENT SURFACES TO RECEIVE NEW FINISHES.
C04	REMOVE EXISTING PROJECTOR AND ASSOCIATED COMPONENTS COMPLETELY. REPAIR ADJACENT SURFACES TO RECEIVE NEW FINISHES.
CASEWORK	
D01	REMOVE ALL EXISTING CASEWORK AND ASSOCIATED SINKS COMPLETELY. PREPARE EXISTING PLUMBING ROUGH-OUTS WHERE APPLICABLE TO RECEIVE NEW SINKS. WHERE NO SINK IS BEING REINSTALLED, CAP EXISTING PLUMBING AT WALL WITH PLATE.
D02	REMOVE EXISTING SILL AT WINDOW. PREPARE SURFACES TO RECEIVE NEW FINISH
EQUIPMENT	
E01	REMOVE ALL EXISTING APPLIANCES COMPLETELY.
E02	REMOVE EXISTING FIRE DOOR AND ALL ASSOCIATED WIRING, TRACKS, AND DOORS COMPLETELY. REMOVE OR PAINT OVER ANY FIRE PARTITION LABELS ABOVE CEILING.
E03	REMOVE EXISTING TOILET ACCESSORIES AND INSTALL NEW ACCESSORIES AS SPECIFIED.
E04	REMOVE EXISTING SIGNAGE AND TRIBUTE ARTWORK. RETAIN FOR USE BY OWNER.
E05	REMOVE EXISTING LETTERING AND RETAIN FOR INSTALLATION BY CONTRACTOR AFTER COMPLETION.
FLOORING	
F01	REMOVE CARPET COMPLETELY. PREPARE FLOOR TO RECEIVE NEW FLOOR FINISHES.
F02	REMOVE VINYL COMPOSITION TILE COMPLETELY. PREPARE FLOOR TO RECEIVE NEW FLOOR FINISHES.
F03	REMOVE EXISTING VINYL PLANK FLOORING COMPLETELY. PREPARE FLOOR TO RECEIVE NEW FLOOR FINISHES.
F04	REMOVE EXISTING FLOOR AND WALL TILE COMPLETELY. PREPARE FLOOR AND WALL TO RECEIVE NEW FINISHES.
PLUMBING	
P01	REMOVE EXISTING COUNTER AND SINK AND PREPARE WALL TO RECEIVE NEW FINISHES.
P02	REMOVE EXISTING TOILET AND PREPARE FLOOR TO RECEIVE NEW IN KIND ADA COMPLIANT FIXTURE.

GENERAL DEMOLITION NOTES

1. DEMOLITION DRAWINGS ARE INTENDED TO INDICATE SCOPE AND GENERAL INTENT OF THE GENERAL DEMOLITION WORK REQUIRED, BUT DO NOT IN ANY WAY LIMIT THE AMOUNT OF DEMOLITION ONLY TO THE ITEMS SHOWN. REFER TO THE SPECIFICATIONS AND ALL OTHER CONSTRUCTION DOCUMENTS FOR ALL OTHER DEMOLITION WORK. ALL INFORMATION IS BASED UPON AVAILABLE PUBLIC DOCUMENTATION AND FIELD OBERVATIONS AND MAY NOT COMPLETELY REFLECT ACTUAL FIELD CONDITIONS. UPON DISCOVERY OF ANY INCONSISTANCIES BETWEEN THE DRAWINGS AND THE EXISTING CONDITIONS OR UNKNOWN CONDITIONS THAT ARE NOT INFERRABLE AND DETRIMENTAL TO THE COMPLETION OF THE WORK AS DEFINED IN THE CONSTRUTION DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF THE CONDITION BEFORE PROCEEDING WITH THE WORK.
2. DO NOT SCALE DRAWINGS. CONTRACTOR TO CHECK AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS ON SITE PRIOR TO PROCEEDING WITH WORK. EXISTING DIMENSIONS NOTED ON DRAWINGS ARE FROM OWNER PROVIDED DOCUMENTS AND WILL REQUIRE FIELD VERIFICATION BY CONTRACTOR.
3. ALL CODED DEMOLITION NOTES ARE NOT REFERENCED ON ALL DEMOLITION DRAWINGS. CODED DEMOLITION NOTES ARE GROUPED FOR CLARITY BUT IN NO WAY SHOULD BE CONSTRUED AS LIMITING THE SCOPE OF WORK TO EACH PARTICULAR SECTION. ALL NOTES SHOULD BE REVIEWED BY THE CONTRACTOR TO ESTABLISH THE OVERALL SCOPE OF WORK
4. DEMOLITION DRAWINGS ARE INTENDED TO INDICATE SCOPE AND GENERAL INTENT OF THE GENERAL DEMOLITION WORK REQUIRED, BUT DO NOT IN ANY WAY LIMIT THE AMOUNT OF DEMOLITION ONLY TO THE ITEMS SHOWN. DEMOLITION WORK INCLUDES REMOVAL OF ALL THAT WILL INTERFERE WITH THE CONSTRUCTION AND PATCHING AS REQUIRED AT ALL DISTURBED AREAS WITHOUT LIMITATION.
5. CONTRACTOR SHALL DOCUMENT EXISTING CONDITIONS WITH PRE-DEMOLITION PHOTOGRAPHS OR VIDEOTAPES PRIOR TO COMMENCEMENT OF SELECTIVE DEMOLITION WORK. INSPECT AREAS IN WHICH WORK WILL BE PERFORMED. PHOTOGRAPH EXISTING CONDITIONS OF STRUCTURES, SURFACES, EQUIPMENT, AND SURROUNDING PROPERTIES WHICH COULD BE MISCONSTRUED AS DAMAGE RESULTING FROM SELECTIVE DEMOLITION WORK; FILE WITH OWNER'S REPRESENTATIVE PRIOR TO STARTING WORK.
6. INVENTORY AND RECORD THE CONDITION OF ITEMS TO BE REMOVED AND REINSTALLED AND ITEMS TO BE REMOVED AND SALVAGED.
7. IF UNANTICIPATED HAZARDOUS MATERIALS ARE ENCOUNTERED DURING PROGRESS OF WORK, IMMEDIATELY CEASE OPERATIONS, NOTIFY OWNER, MAINTAIN STOP-WORK MODE UNTIL DIRECTED IN WRITING BY GOVERNEMENT, OWNER OR AUTHORIZED AGENT OF OWNER TO RE-COMMENCE WORK. COMPLY WITH APPLICABLE REGULATIONS, LAWS, AND ORDINANCES CONCERNING REMOVAL, HANDLING AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION, WITH RESPECT TO ANY SUCH MATERIALS FOR WHICH DIRECTIONS HAVE BEEN GIVEN TO THE CONTRACTOR IN WRITING BY OWNER FOR REMOVAL UNDER THIS CONTRACT.
8. DAMAGES: PROMPTLY REPAIR DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION WORK AT NO COST TO OWNER.
9. DO NOT CLOSE, BLOCK OR OTHERWISE OBSTRUCT STREETS, WALKS OR OTHER OCCUPIED OR USED FACILITIES WITHOUT WRITTEN PERMISSION FROM AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS IF REQUIRED BY GOVERNING REGULATIONS.
10. TRAFFIC: CONDUCT SELECTIVE DEMOLITION OPERATIONS AND DEBRIS REMOVAL IN A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES.
11. PERFORM SELECTIVE DEMOLITION WORK IN A SYSTEMATIC MANNER. USE SUCH METHODS AS REQUIRED TO COMPLETE WORK INDICATED ON DRAWINGS IN ACCORDANCE WITH DEMOLITION SCHEDULE AND GOVERNING REGULATIONS.
12. REPAIR DEMOLITION PERFORMED IN EXCESS OF WHICH IS REQUIRED. RETURN STRUCTURES AND SURFACES TO REMAIN TO CONDITION EXISTING PRIOR TO COMMENCEMENT OF SELECTIVE DEMOLITION WORK. REPAIR ADJACENT CONSTRUCTION OR SURFACES SOILED OR DAMAGED BY SELECTIVE DEMOLITION WORK.
13. ENVIRONMENTAL CONTROLS: USE WATER SPRINKLING, TEMPORARY ENCLOSURES, AND OTHER SUITABLE METHODS TO LIMIT DUST AND DIRT RISING AND SCATTERING IN AIR TO LOWEST PRACTICAL LEVEL. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION. DO NOT USE WATER WHEN IT MAY CREATE HAZARDOUS OR OBJECTIONABLE CONDITIONS SUCH AS ELECTROCUTION, ICE, FLOODING, AND POLLUTION.
14. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY SELECTIVE DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE SELECTIVE DEMOLITION OPERATIONS BEGAN.
15. DESIGN, EXECUTION, INSTALLATION OF SHORING OF THE EXISTING STRUCTURE IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
16. DEMOLITION WORK INCLUDES REMOVAL OF ALL THAT WILL INTERFERE WITH THE CONSTRUCTION AND PATCHING AS REQUIRED AT ALL DISTURBED AREAS WITHOUT LIMITATION.
17. PROVIDE PROTECTIVE MEASURES AS REQUIRED FOR MAINTAINING FREE AND SAFE PASSAGE OF THE GENERAL PUBLIC AROUND THE PROJECT SITE, THE PUBLIC WAY AND SIDEWALKS DURING CONSTRUCTION WORK. ERECT TEMPORARY COVERED PASSAGEWAYS AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
18. REMOVE ALL DEBRIS PROMPTLY TO PREVENT FIRE AND SAFETY HAZARDS.PROTECT ITEMS TO BE REUSED OR REMAIN FROM DUST AND DEBRIS.
19. REMOVE ALL KNOWN HAZARDOUS MATERIALS PRIOR TO DEMOLITION. REFER TO THE HAZARDOUR MATERIALS, LEAD AND ASBESTOS REPORTS FOR ABATEMENT SCOPE AND COORDINATION
20. REMOVE AND TURN OVER TO THE OWNER ANY AND ALL EQUIPMENT AND FURNISHINGS NOT IDENTIFIED TO BE DEMOLISHED.
21. THE OWNER SHALL REMOVE ALL EQUIPMENT, MECHANICAL COMMUNICATIONS AND SECURITY EQUIPMENT FROM THE FACILITY THAT IS TO BE RETURNED PRIOR TO TURNING CONSTRUCTION AREA OVER TO CONTRACTOR.
22. CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF DEMOLITION. CONTACT THE PUBLIC UTILITIES BEFORE BEGINNING DISCONNECT.

ELECTRICAL DEMOLITION NOTES

ED1	EXISTING ABOVE COUNTER DUPLEX RECEPTACLES TO REMAIN. EXISTING CASEWORK IS BEING REMOVED AND REPLACED WITH NEW. MAINTAIN EXISTING ELECTRICAL WORK AND REINSTALL IN NEW CASEWORK. PROVIDE NEW OUTLET DEVICES IN NEW CASEWORK.
ED2	EXISTING DUPLEX RECEPTACLE IN CABINET. RELOCATE TO NEW LOCATION AS INDICATED ON SHEET AE-110.
ED3	TYPICAL: WHERE EXISTING APPLIANCES (REFRIG., DISHWASHER, ETC.) ARE REMOVED, MAINTAIN EXISTING ELECTRICAL WORK FOR REUSE WITH NEW APPLIANCES.
ED4	REMOVE EXISTING FLOOR RECEPTACLES AND ASSOCIATED ELECTRICAL WORK COMPLETE. FILL/PATCH HOLES.
ED5	APPROX. LOCATIONS OF EXISTING 2" CONDUITS STUBBED FLUSH WITH FLOOR. CUT EXISTING CONDUITS FROM FLOOR BELOW AND FILL/PATCH HOLES. MAINTAIN HORIZONTAL RUNS FOR COUPLING TO NEW POKE-THRU DEVICES.

LIGHTING DEMOLITION NOTES

LD1	TYPICAL: REMOVE EXISTING DOWN LIGHT FIXTURES COMPLETE. MAINTAIN EXISTING BRANCH CIRCUIT ELECTRICAL WORK FOR RE-USE WITH NEW LIGHTING.
LD2	TYPICAL: REMOVE EXISTING 2X4 TROFFERS COMPLETE. MAINTAIN EXISTING BRANCH CIRCUIT ELECTRICAL WORK FOR RE-USE WITH NEW LIGHTING.
LD3	REMOVE EXISTING LIGHT FIXTURE COMPLETE. MAINTAIN EXISTING BRANCH CIRCUIT FOR RE-USE AS REQUIRED.
LD4	TYPICAL: FOUR (4) EXISTING EXIT SIGNS SHALL BE MAINTAINED AND RE-INSTALLED IN NEW CEILINGS.

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PROFESSIONAL SEALS:

STATE OF SOUTH CAROLINA — SSOE, Inc. — Toledo, OH — 93001 — REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA — ADRIANE M. McGILLIS — Columbia, SC — No. 8168 — REGISTERED ARCHITECT

CONSULTANTS:

KEYPLAN

SUBMITTAL/REVISION SCHEDULE:

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CLIENT INFORMATION:

MIDLANDS TECHNICAL COLLEGE

1260 LEXINGTON DRIVE
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29170-2176

JHA PROJECT #: H59-6338-SG

PROJECT INFORMATION:

PRESIDENT'S SUITE RENOVATION BELTLINE CAMPUS

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COLUMBIA, SOUTH CAROLINA

SSOE PROJECT #: 025-00554-00
SSOE MANAGER: ADRIANE MCGILLIS

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LEVEL 03 DEMOLITION PLAN AND RCP

AD-110

Autodesk Docs://Midlands Tech Col_MTC President's Suite Renovation/MTC President Suite - ARCH - v24.rvt :FILE PATH
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GENERAL NOTES:
STUD CONSTRUCTION

1. BASIS OF DESIGN: ***STEEL FRAMED PARTITIONS***
DESIGN IS BASED ON GUIDELINES INCLUDED IN PRODUCT TECHNICAL INFORMATION OF THE STEEL MANUFACTURE'S ASSOCIATION LATEST EDITION OF THE SSMA PUBLICATION AND THE FOLLOWING PERFORMANCE CRITERIA:

A. LIMITING HEIGHT CRITERIA:
DEFLECTION OF **(L/240)** AT **(5 LBS. PER SQ. FT.)** CONSTANT AIR-PRESSURE LOADS

B. THICKNESS-STEEL COMPONENTS:

GAUGE	DESIGN THICKNESS
20	0.0346

*LIGHT GUAGE METAL FRAMING MANUFACTURED TO "EQUIVALENT THICKNESS" PARAMETERS ARE ACCEPTABLE PROVIDED THEY DESIGN CIRTERIA NOTED ABOVE IS ACCOMDOATED .

2. MINIMUM GAUGE:
IF LIMITING HEIGHT AS SCHEDULED IN PARTITION DETAILS EXCEEDS PROJECT CONDITIONS OR IF THE SELECTED STEEL STUD MANUFACTURE'S THICKNESS OF STEEL COMPONENTS VARIES FROM THE BASIS OF DESIGN AS SET FORTH ABOVE, PROVIDE MANUFACTURE'S STANDARD THICKNESS (GAUGE) THAT MEETS OR EXCEEDS LIMITING HEIGHT PERFORMANCE CRITERIA FOR STUD DEPTH AND SPACING INDICATED.

3. DOOR JAMBS
PROVIDE DOUBLE 20 GA. STUDS AT ALL DOOR OPENINGS, EXTEND FROM FLOOR TO STRUCTURE ABOVE. TYPICAL FOR ALL DOORS IN METAL STUD WALLS.

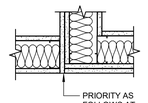
GENERAL NOTES:
GYPSUM WALLBOARD

1. DO NOT INSTALL GYPSUM WALLBOARD IN DIRECT CONTACT WITH THE FLOOR. ALL GWB SHALL BE SHIMMED 1/2" ABOVE FLOOR SLAB WITH NON-POROUS SHIM. PLASTIC NON-POROUS HORSESHOE SHIMS ARE RECOMMENDED; GYPSUM WALLBOARD SHIMS ARE NOT ACCEPTABLE. PROVIDE BACKER ROD & CONTINUOUS ACOUSTICAL OR FIRE RATED SEALANT TOOLED FOR HOURGLASS SHAPE PER MFR'S RECOMMENDATIONS.
2. WHERE GYPSUM WALL BOARD EXTENDS TO THE UNDERSIDE OF STRUCTURE, STOP GYPSUM WALL BOARD 1/2" BELOW LINE OF STRUCTURE AND SEAL AS REQUIRED.
3. TYPICAL AT ALL INTERIOR PARTITIONS, GYPSUM WALLBOARD TO BE 5/8" TYPE "X" UNLESS NOTED OTHERWISE AT PARTITION TYPE MODIFIER OR AS SCHEDULED IN SPECIFICATION.
4. TYPICAL AT ALL EXTERIOR PERIMETER WALLS, INSTALL 5/8" TYPE "X" MOLD AND MOISTURE RESISTANT GYPSUM WALLBOARD.
5. STAGGER JOINTS AT INSTALLATIONS OF MULTIPLE LAYERS OF GYPSUM WALLBOARD.
6. TO GREATEST EXTENT POSSIBLE, ALL HORIZONTAL JOINTS BETWEEN PANELS SHALL BE ABOVE CEILING.

GENERAL NOTES:
FIRE RATED ASSEMBLIES

1. ALL FIRE-RATED ASSEMBLIES TO EXTEND FROM TOP OF SLAB TO UNDERSIDE OF STRUCTURE. SEAL TOP OF ASSEMBLY TO THE UNDERSIDE OF METAL DECK OR STEEL BEAM AS REQUIRED TO ACHIEVE FIRE PROTECTION RATING.
2. AT GWB/STUD FIRE RATED ASSEMBLIES, INSTALL FRAMING AND GYPSUM WALL BOARD TO OFFSET AROUND STRUCTURAL MEMBERS OR OTHER OBSTRUCTIONS TO MAINTAIN ACOUSTICAL OR FIRE RATINGS (IF ACOUSTICAL PARTITION IS ALSO FIRE-RATED).
3. FOR FIRE-RATED JOINT SYSTEMS FOR FIRE-RATED SEALANTS AND FIRESTOP CAULKING. PROVIDE PRODUCTS APPROVED BY UL.
4. INSTALL FRAMING AND GWB TO OFFSET AROUND STRUCTURAL MEMBERS OR OTHER PENETRATIONS OF FIRE-RATED ASSEMBLIES TO MAINTAIN FIRE RESISTIVE RATINGS PER UL APPROVED DETAIL.
5. ALL FIRE RATED CONSTRUCTION IS EXISTING AND ANY NEW PENETRATIONS OF THESE PARTITIONS SHALL BE SEALED WITH A UL APPROVED SYSTEM. ANY EXISTING PENETRATIONS FOUND TO BE INCORRECTLY SEALED SHALL BE REMEDIED.

ASSEMBLY PRIORITY LEGEND



PROVIDE RATED ASSEMBLIES IN ACCORDANCE WITH UL LISTING, MFR. INSTRUCTIONS & APPROVED DETAILS INDICATING HOURS OF FIRE RESISTANCE. REFER TO LIFE SAFETY PLANS, PLANS & ENLARGED PLANS FOR PARTITION TYPES, LOCATIONS & EXTENT OF RATED WALLS.

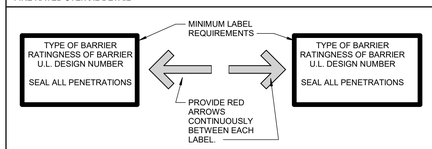
PRIORITY OF RATED ASSEMBLIES:

• TWO HOUR FIRE & SMOKE WALL	PRIORITY 1 - HIGHEST
• TWO HOUR FIRE WALL	PRIORITY 2
• TWO HOUR SHAFT WALL	PRIORITY 3
• ONE HOUR FIRE & SMOKE WALL	PRIORITY 4
• ONE HOUR FIRE WALL	PRIORITY 5
• ONE HOUR SHAFT WALL	PRIORITY 6
• NON-RATED	PRIORITY 7 - LOWEST

GENERAL NOTES - FIRE RATED STENCIL

1. APPLY PARTITION LABELS ABOVE THE CEILING ON ALL RATED AND SMOKE TIGHT ASSEMBLIES. LABEL AS PER ASSEMBLY RATING.
2. COLOR TO BE BRIGHT RED. MINIMUM TEXT SIZE AS REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION.
3. APPLY LABEL AT BEGINNING AND END OF EACH LENGTH OF ASSEMBLY AND APPLY LABEL INTERMITTENTLY BETWEEN END/BEGINNING AT MINIMUM SPACING OF 12'-0" O.C.
4. ARROWS TO BE CONTINUOUS AROUND ASSEMBLY.
5. FIRE/SMOKE DAMPER ACCESS AND OTHER MECHANICAL ELEMENTS SHALL BE IDENTIFIED AS PER ***IBC 2021 SECTION 717.4.1*** ALL OTHER IDENTIFIERS SHALL BE IN COMPLIANCE WITH THE IBC AND ALL OTHER APPLICABLE CODES AND MUNICIPALITY REQUIREMENTS.
6. REPAIR/PATCH EXISTING FIRE RATED PARTITION LABELS AS NECESSARY
7. PAINT OVER EXISTING FIRE RATED PARTITION LABELS AND ARROWS SO AS TO COMPLETELY COVER ALL INDICATION OF A FIRE RATING FOR ASSEMBLIES THAT WILL NOT RETAIN A FIRE RATING IN THE PROPOSED NEW DESIGN.

FIRE RATED STENCIL DETAIL

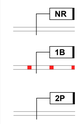


GENERAL NOTES:
NON-RATED & ACOUSTICAL PARTITIONS/ASSEMBLIES

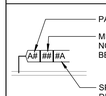
1. ALL INTERIOR PARTITIONS TO EXTEND TO DECK UNLESS NOTED OTHERWISE BY PARTITION TYPE HEAD CONDITION SCHEDULE. SEE PLAN FOR PARTITION IDENTIFICATION.
2. ALL ACOUSTIC PARTITIONS TO EXTEND FROM TOP OF SLAB TO UNDERSIDE OF STRUCTURE. SEAL TOP AND BOTTOM TYPICAL TO THE UNDERSIDE OF METAL DECK OR STEEL BEAM AS REQUIRED TO ACHIEVE ACOUSTIC OR FIRE PROTECTION RATING. INSTALL FRAMING AND GYPSUM WALL BOARD TO OFFSET AROUND STRUCTURAL MEMBERS OR OTHER OBSTRUCTIONS TO MAINTAIN ACOUSTICAL OR FIRE RATINGS (IF ACOUSTICAL PARTITION IS ALSO FIRE-RATED).
3. ALL INTERIOR METAL STUD PARTITIONS TO HAVE SOUND BATTS INSULATION UNLESS NOTED OTHERWISE BY PARTITION MODIFIER. AT 3 5/8" STUD CAVITIES, PROVIDE 3 1/2" SOUND BATTS. AT 6" OR 8" STUD CAVITIES PROVIDE 5 1/2" SOUND BATTS.
4. ALL INTERIOR ROOF DRAINS AND OVERFLOW DRAINS TO BE WRAPPED CONTINUOUSLY WITH SOUND ATTENUATION INSULATION.
5. ALL PARTITIONS CONTAINING PLUMBING PIPING SHALL BE THERMALLY INSULATED WITH MINERAL WOOL.

PARTITION TYPE IDENTIFICATION LEGEND

PARTITION RATING TAG LEGEND - CALLED OUT ON LIFE SAFETY PLANS



PARTITION TYPE TAG LEGEND - CALLED OUT ON FLOOR PLANS & ENLARGED PLANS



ABBREVIATIONS

(#)	=	NUMBER OF LAYERS OF GWB
CIP	=	CAST-IN-PLACE CONCRETE
CMU	=	CONCRETE MASONRY UNIT
FC	=	STUD FURRING (TYPE AS SCHEDULED)
GSL	=	GYPSUM SHAFT LINER
GWB	=	GYPSUM WALLBOARD, TYPE AS SCHED
HF	=	HAT-SHAPED METAL FURRING
MS	=	METAL STUD FRAMING
MF	=	METAL STUD FURRING
MSS	=	METAL SHAFTWALL STUD FRAMING
RC	=	RESILIENT CHANNEL
WS	=	WOOD STUD FRAMING
WF	=	WOOD FURRING
ZF	=	METAL Z-FURRING

PARTITION TYPE SCHEDULE

METAL STUD PARTITION TYPES

G1	GWB (1) + MS
M1	GWB (1) + MS + GWB(1)

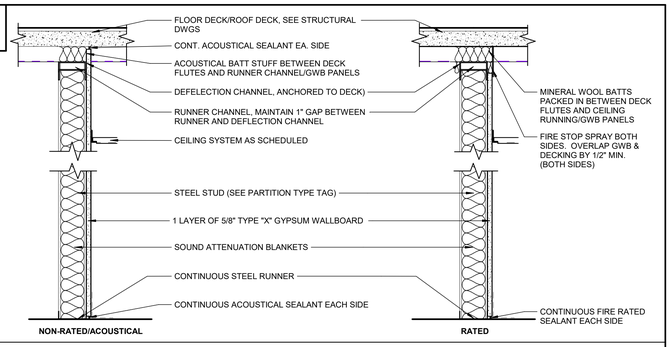
LIGHT GAUGE METAL STUD SCHEDULE

NOMINAL	ACTUAL
1	1 5/8"
2	2 1/2"
3	3 5/8"
4	4"
6	6"
8	8"

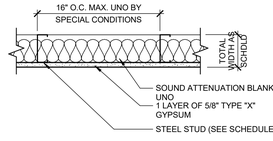
SPECIAL CONDITION SCHEDULE

A. STUD AND GWB TO 6" MIN ABOVE HIGHEST ADJACENT CEILING. SEE HEAD DETAIL **H6** ON **AE-050**
B. NOT USED
C. NOT USED
D. NOT USED

G1



SECTION DETAIL



PLAN DETAIL

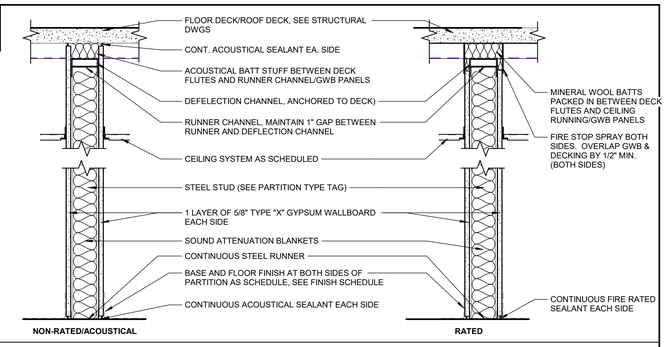
1. PARITION TYPE MAY BE USED FOR 1 HOUR RATING WHEN APPLIED CONTINUOUSLY ALL SIDES OF COLUMN.
2. SPECIAL CONDITIONS AS TAGGED AT FLOOR PLAN ARE NOT SHOWN IN THE ABOVE DIAGRAM OR SCHEDULE BELOW, SEE SPECIAL CONDITIONS SCHEDULE FOR MORE INFO.

PARTITON TYPE NOTES

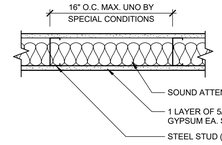
PARTITION SCHEDULE

PARTITION TAG	FINISHED WIDTH	STUD SIZE	STC RATING	UL
G1 3 NR	4 7/8"	3 5/8"	45	N/A

M1



SECTION DETAIL



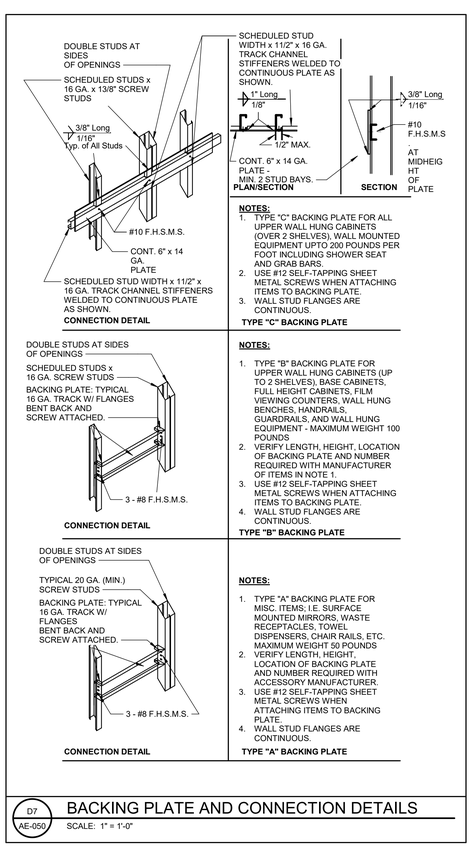
PLAN DETAIL

1. SPECIAL CONDITIONS AS TAGGED AT FLOOR PLAN ARE NOT SHOWN IN THE ABOVE DIAGRAM OR SCHEDULE BELOW, SEE SPECIAL CONDITIONS SCHEDULE FOR MORE INFO.

PARTITON TYPE NOTES

PARTITION SCHEDULE

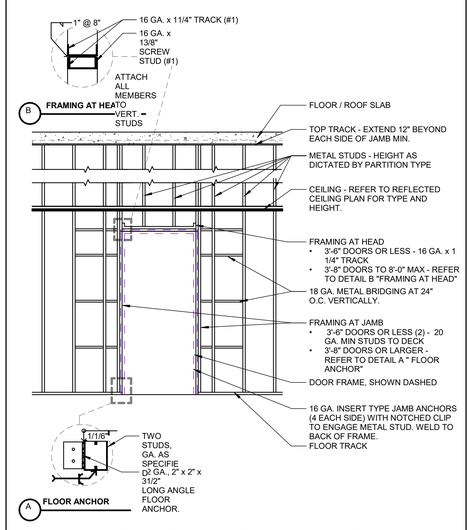
PARTITION TAG	FINISHED WIDTH	STUD SIZE	STC RATING	UL
M1 3 NR	4 7/8"	3 5/8"	?	N/A



D7 / AE-050 BACKING PLATE AND CONNECTION DETAILS
SCALE: 1" = 1'-0"

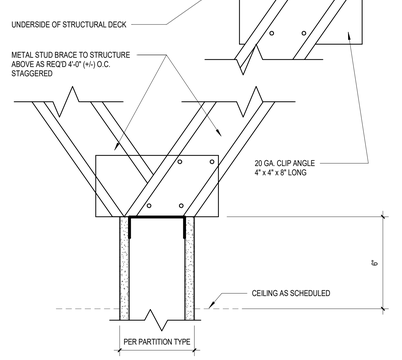
GENERAL NOTES:
DOOR FRAMING

1. ALL DOOR JAMB STUDS ARE TO EXTEND TO DECK, REGARDLESS OF PARTITION TYPE STUD HEIGHTS AS NOTED BY PARTITION TYPE OR SPECIAL CONDITION.
2. REFER TO DETAIL BELOW FOR STUD GA. AT JAMB AND HEADER STUDS



- AS AN OPTION TO THE NESTED 16 GA. x 11/4" TRACK AND 16 GA. x 13/8" SCREW STUD 16 GA. x 11/4" TRACK SHOWN FOR "FRAMING AT HEAD" DETAIL, A 16 GA. RECTANGULAR TUBE OF SAME SIZE AS THE NESTED STUD / TRACK MAY BE USED + 16 GA. x 11/4" TRACK.
- BRIDGING TO BE AT 24" O.C. VERTICALLY AT DOORS OVER 36" WIDE AND AT LEAD LINED DOORS; DOORS 36" WIDE AND NARROWER, CAN HAVE BRIDGING AT MID-POINT OF VERTICAL DOOR HEIGHT.

F7 / AE-050 GENERAL - DOOR FRAMING REINFORCING
SCALE: 1" = 1'-0"



H6 / AE-050 HEAD OF WALL DETAIL
SCALE: 3" = 1'-0"

SSOE

PROFESSIONAL SEALS:

STATE OF SOUTH CAROLINA — SSOE, Inc. — Toledo, OH — 93001 — REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA — ADRIANE M. McGILLIS — Columbia, SC — No. 8169 — REGISTERED ARCHITECT

CONSULTANTS:

KEYPLAN

SUBMITTAL/REVISION SCHEDULE:

NO.	DATE	DESCRIPTION
1	11.14.25	PERMIT DRAWINGS

□ APPROVED FOR CONSTRUCTION
■ NOT APPROVED FOR CONSTRUCTION

CLIENT INFORMATION:

MIDLANDS TECHNICAL COLLEGE
1260 LEXINGTON DRIVE
WEST COLUMBIA, SC
29170-2176

JHA PROJECT #: H59-6338-SG

PROJECT INFORMATION:

PRESIDENT'S SUITE RENOVATION
BELTLINE CAMPUS

316 S BELTLINE BLVD
COLUMBIA, SOUTH CAROLINA

SSOE PROJECT #: 025-00554-00
SSOE MANAGER: ADRIANE MCGILLIS

SSOE
1501 Main Street, Suite 730
Columbia, SC 29201
T. (803) 765-0220

PARTITION DETAILS

AE-050

GRILLES, REGISTERS & DIFFUSERS

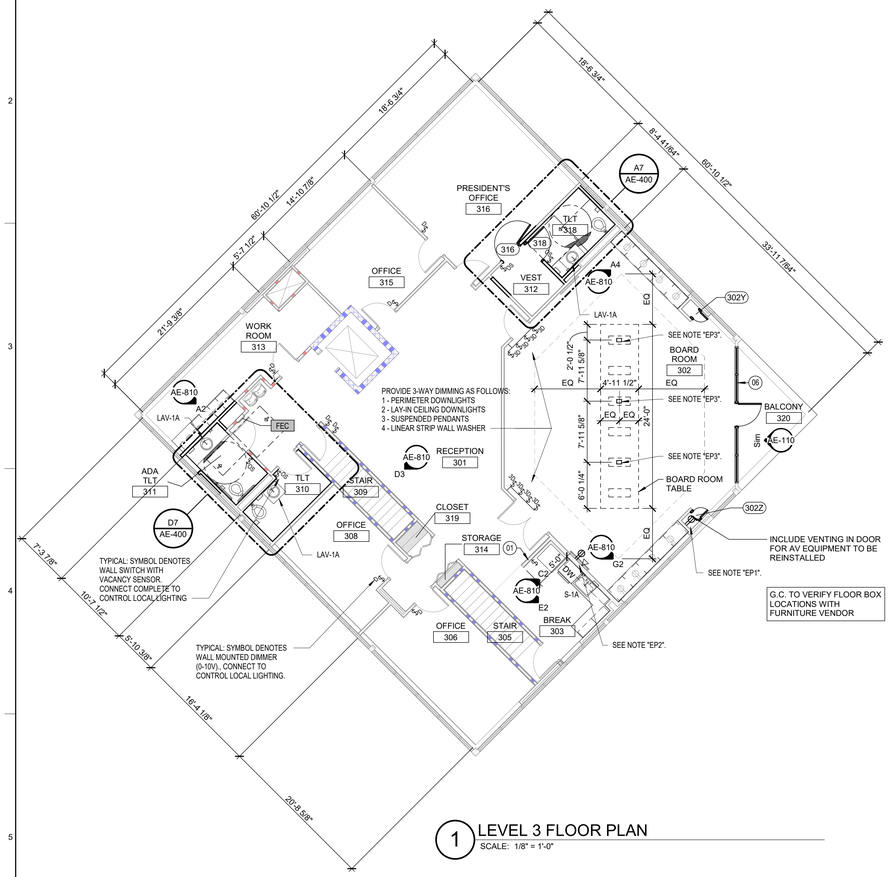
SYMBOL	MFGR	MODEL	MOUNTING	TYPE	FRAME SIZE/TYPE	NECK	FINISH	USE	MATERIAL	NOTES
A	PRICE	SPD	PER ARCH CEILING TYPE	SQ. PLAQUE	24x24	SEE PLAN	WHITE	SUPPLY	STEEL	1,2
B	PRICE	PDDR	PER ARCH CEILING TYPE	PERFORATED	24x24	SEE PLAN	WHITE	RETURN /EXHAUST/TRANSFER	STEEL	1,2

NOTES:

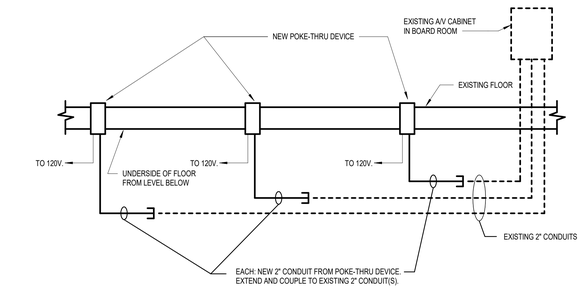
1. MATCH EXISTING DIFFUSER/GRILLE SIZE.

2. ALL GRILLES, DIFFUSERS, ETC. SHALL BE PROVIDED WITH A MOUNTING FRAME COMPATIBLE WITH THE CEILING, DUCT OR WALL SYSTEM HOSTING THE DEVICE.

MECHANICAL GENERAL NOTE:
ALL EXISTING SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLES TO BE REMOVED AND REPLACED WITH NEW.
REFER TO GRILLES, REGISTERS & DIFFUSERS SCHEDULE FOR TYPE.

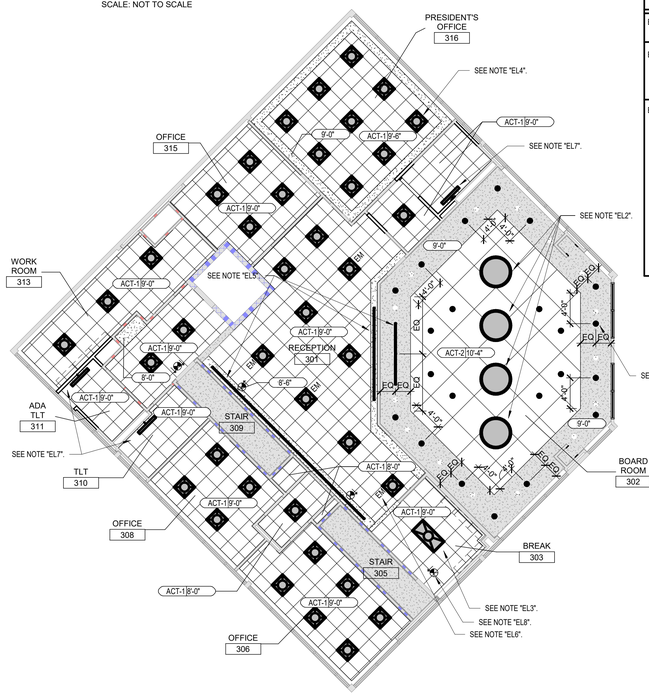


1 LEVEL 3 FLOOR PLAN
SCALE: 1/8" = 1'-0"



POKE-THRU DIAGRAM

SCALE: NOT TO SCALE



2 LEVEL 3 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

LIGHTING NOTES

EL1	TYPICAL: FOR DOWNLIGHT FIXTURES, PROVIDE LITHONIA #LDN6-40/15-L06-AR-LSS-MVOLT-GZ10. FIXTURES SHALL BE 0-10 VOLT DIMMABLE TO 10%. RE-WORK/EXTEND EXISTING 277V. LIGHTING CIRCUIT(S) AS REQUIRED. CONNECT FIXTURES COMPLETE WITH CONTROLS AS INDICATED.
EL2	TYPICAL: FOR FOUR (4) PENDANT FIXTURES, PROVIDE PRULITE #P4O40-LED4-SO-VWA-YCH-O9-UNV-CA*-X1-ECO WITH MOUNTING SUSPENSION DEPTH (CA*) AS DIRECTED BY ARCHITECT.
EL3	TYPICAL: FOR 2X4 FIXTURES, PROVIDE LITHONIA #EPANL-2X4-4800LM-80CRI-40K-MIN10-EZT-MVOLT. FIXTURES SHALL BE 0-10VOLT DIMMABLE TO 10%. RE-WORK/EXTEND EXISTING 277V. LIGHTING CIRCUIT(S) AS REQUIRED. CONNECT FIXTURES COMPLETE WITH CONTROLS AS INDICATED.
EL4	TYPICAL: FOR 2X2 FIXTURES, PROVIDE LITHONIA #EPANL-2X2-4000LM-80CRI-40K-MIN10-EZT-MVOLT. FIXTURES SHALL BE 0-10VOLT DIMMABLE TO 10%. RE-WORK/EXTEND EXISTING 277V. LIGHTING CIRCUIT(S) AS REQUIRED. CONNECT FIXTURES COMPLETE WITH CONTROLS AS INDICATED.
EL5	TYPICAL: FOR RECESSED, LINEAR WALL WASH FIXTURES, PROVIDE PEERLESS #OPMW-FL-LOP-*FT-80CRI-40K-500LMF-DARK-ZT-277-SCT-CO41 WITH DIMMING TO DARK AND LENGTH (*FT) AS INDICATED ON PLANS. EXTEND TO NEAREST EXISTING 277V. LIGHTING CIRCUIT AND CONNECT COMPLETE. PROVIDE SEPARATE DIMMING LOCATIONS TO BE SELECTED BY OWNER/ARCHITECT.
EL6	TYPICAL: FOR FIXTURES DENOTED WITH "EM", PROVIDE WITH INTEGRAL EMERGENCY BATTERY UNITS WITH MINIMUM 90-MINUTE RATING WITH 1100 LUMEN OUTPUT.
EL7	TYPICAL: THREE TOILET ROOMS. PROVIDE OVER SINK VANITY FIXTURE. VISA LIGHTING #CB5513 SERIES WITH 4000 KELVIN AND LED LAMP. FINISH AS DIRECTED BY ARCHITECT.
EL8	TYPICAL: FOUR (4) EXISTING EXIT SIGNS RE-INSTALLED IN NEW CEILINGS.

ELECTRICAL NOTES

EP1	EXISTING DUPLEX RECEPTACLE RELOCATED TO SERVE A/V EQUIPMENT. COORDINATE WITH OWNER AND A/V FOR EXACT MOUNTING HEIGHT.
EP2	PROVIDE ELECTRICAL WORK COMPLETE FOR NEW WALL MOUNT TV. COORDINATE WITH OWNER/ARCHT. FOR EXACT MOUNTING HEIGHT FOR DUPLEX RECEPT. AND DATA OUTLET. PROVIDE 120V. POWER AS 2 #12, #12 GROUND, 3/4" CONDUIT AND J-BOX WITH 3/4" EMPTY CONDUIT STUBBED OUT TO ACCESSIBLE CEILING SPACE FOR DATA/VIDEO CABLING BY OTHERS.
EP3	CORE-DRILL AND PROVIDE THREE (3) NEW, 6" DIAMETER POKE-THRU DEVICES TO SERVE BOARD ROOM TABLE CONNECTIONS. THE THREE NEW POKE-THRU DEVICES SHALL BE HUBBELL RECESSED SERIES FOR FIRE RATED FLOORS. EACH DEVICE SHALL BE PRE-WIRED WITH TWO RECEPTACLES AND SHALL INCLUDE A 3/4" OPENING FOR 120V. POWER AND A 2" OPENING FOR A/V AND DATA. • INTERCEPT AN EXISTING 2" CONDUIT BELOW FLOOR AND EXTEND TO EACH NEW POKE-THRU DEVICE. PROVIDE RECESSED SUB-PLATES FOR EACH DEVICE TO ALLOW FOR OWNER INSTALLED, CAT-6 CABLE AND JACK AND HDMI CABLE AND JACK. • PROVIDE FLUSH, BRASS COVER PLATES WITH OPENINGS TO ALLOW CABLING AND POWER CORDS FROM TABLE TO BE PLUGGED INTO OUTLETS IN POKE-THRU DEVICES. PROVIDE A DEDICATED 120V. BRANCH CIRCUIT WITH 2 #12, #12 GROUND, 3/4"C. TO EACH DEVICE FROM A NEW 20/1 BRKR. IN EXISTING PANEL "3LA". COORDINATE CLOSELY WITH ARCHITECT FOR EXACT LOCATIONS FOR POKE-THRU DEVICES. THEY ARE TO BE INSTALLED DIRECTLY UNDER THREE LEGS OF THE NEW BOARD ROOM TABLE.

DRAWING CONVENTIONS LEGEND

- EXISTING NON RATED CONSTRUCTION
- NEW NON RATED CMU CONSTRUCTION
- NEW NON RATED METAL STUDS CONSTRUCTION
- EXISTING 1 HOUR RATED CMU CONSTRUCTION
- EXISTING 1 HOUR RATED METAL STUDS CONSTRUCTION
- EXISTING 2 HOUR RATED CMUCONSTRUCTION
- CENTERLINE
- BUILDING ELEMENTS ABOVE
- ALIGN — ALIGNMENT REFERENCE
- FEC — PROVIDE FULLY RECESSED RATED STAINLESS AND 20# ABC FIRE EXTINGUISHER. BASIS OF DESIGN FS SS2712-R BY LARSEN'S

REFLECTED CEILING PLAN LEGEND

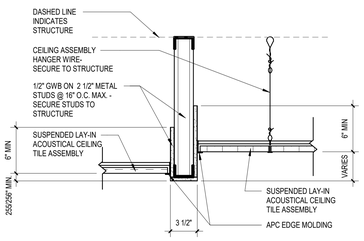
SYMBOL	DESCRIPTION
8'- 8"	CEILING HEIGHT A.F.F.
	DOWNLIGHT - REFER TO ELECTRICAL SCHEDULES
	LIGHTING FIXTURE - REFER TO ELECTRICAL SCHEDULES
	EXIT LIGHT - REFER TO EXISTING PLANS AND REPLACE IN PLACE
	EMERGENCY LIGHT - REFER TO ELECTRICAL SCHEDULES
	FIRE ALARM SMOKE DETECTOR, CEILING MOUNTED
	2'x2' SUPPLY DIFFUSER - REFER TO MECHANICAL SCHEDULE
	RETURN GRILL - REFER TO MECHANICAL SCHEDULES
OS	OCCUPANCY SENSOR - REFER TO ELECTRICAL SCHEDULES
J	JUNCTION BOX - REFER TO ELECTRICAL SCHEDULES
	VISUAL ALARM NOTIFICATION - REFER TO TECHNOLOGY SCHEDULES
	FIRE ALARM NOTIFICATION DEVICE - REFER TO TECHNOLOGY SCHEDULES
	2' x 2' ACOUSTICAL CEILING PANEL SEE CEILING TAG FOR TYPE
	CUT 2' x 2' ACOUSTICAL CEILING PANEL SEE CEILING TAG FOR TYPE
	4' x 4' ACOUSTICAL CEILING PANEL, SEE CEILING TAG FOR TYPE
	GYPSUM WALLBOARD SOFFIT/CEILING. SEE CEILING TAG FOR TYPE

SOFFIT/BULKHEAD FRAMING GENERAL NOTES

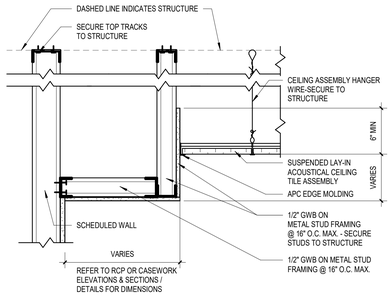
1. ALL FRAMING AND BRACING AT SOFFITS & BULKHEADS WILL BE OF MINIMUM SIZE AND GUAGE AS SPECIFIED AT NON-STURCTURAL METAL FRAMING SPECIFICATION UNLESS OTHERWISE NOTED. ALL FRAMING SHALL BE AT 16" ON CENTER MAXIMUM; ALL DIAGONAL BRACING SHALL BE AT 48" ON CENTER MAXIMUM.
2. PRODUCT DATA INCLUDED IN METAL STUD FRAMING SUBMITTAL SHALL SHOW LIMITING HEIGHT FACTORS FOR ALL WALL FRAMING AND SOFFIT FRAMING TO MEET PROJECT SPECIFIC CONDITIONS.
3. IF LIMITING HEIGHT AS SCHEDULED BY CEILING PLANS EXCEEDS PROJECT CONDITIONS OR IF THE SELECTED STEEL STUD MANUFACTURE'S THICKNESS OF STEEL COMPONENTS VARIES FROM THE BASIS OF DESIGN AS SET FORTH ABOVE, PROVIDE MANUFACTURE'S STANDARD THICKNESS (GAUGE) THAT MEETS OR EXCEEDS LIMITING HEIGHT PERFORMANCE CRITERIA FOR STUD DEPTH AND SPACING INDICATED. OR DECREASE FRAMING SPACING TO MEET PERFORMANCE CRITERIA.

FLOOR PLAN KEYNOTES

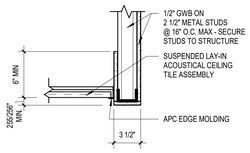
KEYNOTE #	KEYNOTE DESCRIPTION
01	PARTITION NOT TO REMAIN RATED
02	INFILL OPENING IN WALL WHERE EXISTING DOOR IS REMOVED. INSTALL GWB FLUSH WITH ADJACENT CONSTRUCTION.
03	PROVIDE COAT HOOK AT DOOR. BASIS OF DESIGN: BOBORICK B-9451 MBLK MATTE BLACK WITH WALL BUMPER
04	NEW SOLID SURFACE SILL AT WINDOW. SEE FINISH SCHEDULE FRO MORE INFO.
05	PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS (FUTURE @ PRESIDENT'S SUITE TOILET ROOM)
06	G.C. TO PROVIDE MOVE-IN ASSISTANCE FOR FURNITURE PRIOR TO REINSTALLING STOREFRONT. SEE SPECIFICATIONS FOR MORE INFORMATION.



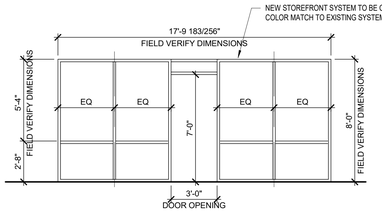
3 GWB BULKHEAD DETAIL - APC TO APC
1 1/2" = 1'-0"



4 GWB SOFFIT DETAIL - APC CLNG
1 1/2" = 1'-0"



5 GWB BULKHEAD DETAIL @ APC
1 1/2" = 1'-0"



7 STOREFRONT ELEVATION
1/4" = 1'-0"

PLUMBING FIXTURE SCHEDULE

FIXTURE SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	MATERIAL DESCRIPTION	TRIM					FLOW FIXTURE			FLUSH FIXTURE		PIPE CONNECTIONS				SPECIFICATIONS
					MANUFACTURER	MODEL NO.	FINISH	TYPE	MOTION SENSOR CONTROL	FLOW	TIMER DURATION (SEC)	MAX. MIXED WATER TEMP.	VOLUME PER FLUSH	MIN. VOLUME PER FLUSH	SANITARY ROUGH-IN PIPE DIAMETER	VENT PIPE DIAMETER	COLD WATER ROUGH-IN PIPE DIAMETER	HOT WATER ROUGH-IN PIPE DIAMETER	COMMENTS
LAV-1A	LAVATORY -UNDER COUNTER MOUNTED -ADA-MANUAL	AMERICAN STANDARD	9482.000	WHITE VITREOUS CHINA	T&S BRASS	B-0871-F05	CHROME	MANUAL	NO	0.5 GPM	N/A	110 °F	N/A	N/A	2"	1 1/2"	1/2"	1/2"	PROVIDE WITH BASIN CLIPS. COORDINATE HOLE PATTERN WITH COUNTER PROVIDER. PROVIDE WATTS LFUSG-B-M3 MOUNTED AS TIGHT TO LAVATORY AS CONDITIONS ALLOW (SECURE TO WALL) WITH BACK CHECKS AND STOPS. MCGUIRE #LFBV170LK SUPPLIES, C.P., POLISHED BRASS, RIGID SHORT HORIZONTAL INTEGRAL COPPER SWEAT TUBE NIPPLES, ESCUTCHEONS AND S.S. BRAIDED FLEXIBLE RISERS (PROVIDE ADDITIONAL MATCHING BRAIDED RISER FROM MIXING VALVE TO FAUCET). ZURN Z5746-PC GRID BASIN DRAIN. MCGUIRE #8872C 'P' TRAP, 1-1/4" WITH CLEANOUT PLUG AND ESCUTCHEON. ZURN Z8946-3-NT PROTECTOR. REFER TO ARCHITECTURAL ELEVATION PLANS FOR MOUNTING HEIGHT.
S-1A	SINK - SINGLE - ADA	ELKAY	LRAD191955-3	STAINLESS STEEL	DELTA	26C3934	CHROME	MANUAL	NO	1.5 GPM	N/A	110 °F	N/A	N/A	2"	1 1/2"	1/2"	1/2"	SWIVEL GOOSENECK (OWNER TO CONFIRM), WATTS LFUSG-B-M3 THERMOSTATIC MIXING VALVE MOUNTED BELOW DECK WITH INTEGRAL CHECKS. PROVIDE WITH ELKAY LKAD35 BASKET STRAINER, MCGUIRE #LFBV170LK SUPPLIES, BRAIDED FLEXIBLE RISERS (PROVIDE ADDITIONAL MATCHING BRAIDED RISER FROM MIXING VALVE TO FAUCET HW CONNECTION), MCGUIRE #8872 'P' TRAP. PROVIDE #PVU200WC 'PROWRAP' SANITARY COVERING TO EXPOSED PIPING (TO PROTECT AGAINST HEAT/CONTUSIONS) AS PER LOCAL CODES. OWNER IS TO DETERMINE RIGID OR SWIVEL MOUNT OPTION.

PROFESSIONAL SEALS:

STATE OF SOUTH CAROLINA — SSOE, Inc. — Toledo, OH — 93001 — REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA — ADRIANE M. McGILLIS — Columbia, SC — No. 8169 — REGISTERED ARCHITECT

CONSULTANTS:

KEYPLAN

SUBMITTAL/REVISION SCHEDULE:

NO.	DATE	DESCRIPTION
1	11.14.25	PERMIT DRAWINGS

□ APPROVED FOR CONSTRUCTION
■ NOT APPROVED FOR CONSTRUCTION

CLIENT INFORMATION:

MIDLANDS TECHNICAL COLLEGE
1260 LEXINGTON DRIVE
WEST COLUMBIA, SC
29170-2176

JHA PROJECT #: H59-6338-SG

PROJECT INFORMATION:

PRESIDENT'S SUITE RENOVATION
BELTLINE CAMPUS

316 S BELTLINE BLVD
COLUMBIA, SOUTH CAROLINA

SSOE PROJECT #: 025-00554-00
SSOE MANAGER: ADRIANE MCGILLIS

SSOE
1501 Main Street, Suite 730
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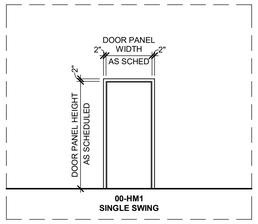
T: (803) 765-0320

LEVEL 03 FLOOR PLAN AND RCP

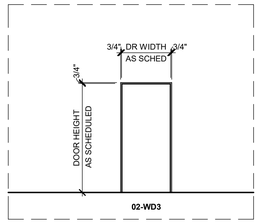
AE-110

DOOR SCHEDULE

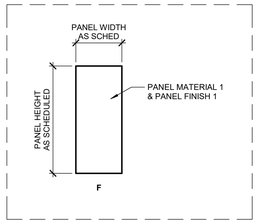
DOOR NUMBER	TO ROOM INFO NUMBER	TO ROOM INFO NAME	DOOR & FRAME RATING (IN MINUTES)	DOOR PANEL(S) PANEL 1 - TYPE	P1 WIDTH	PANEL HEIGHT	PANEL MATERIAL #1	FINISH 1	DOOR FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	DOOR HARDWARE SET	COMMENTS	REV
Level 3																
302	320	BALCONY	NR	F	3'-0"	7'-0"	ALUM		02-AL01	ALUM						
302Y	302	BOARD ROOM	NR	F	1'-4"	8'-10 3/4"	SCW	PNT	02-WD3	WD	PNT	H2	J2	01	SEE JAMB DETAIL FOR TRUE WIDTH	
302Z	302	BOARD ROOM	NR	F	1'-4"	8'-10 3/4"	SCW	PNT	02-WD3	WD	PNT	H2	J2	01	SEE JAMB DETAIL FOR TRUE WIDTH; UNDERCUT DOOR AS REQUIRED BY IT FOR VENTILATION	
316	316	PRESIDENT'S OFFICE	NR	F	3'-0"	7'-0"	EXST SCW	*	01-HM1	HM	PNT	H1	J1	EXISTING	* REPAIR EXISTING FINISH AS REQUIRED	
318	318	TLT	NR	F	3'-0"	7'-0"	EXST SCW	*	01-HM1	HM	PNT	H1	J1	EXISTING	* REPAIR EXISTING FINISH AS REQUIRED	



A2 / AE-360 HM FRAME TYPE ELEVS
SCALE: 1/4" = 1'-0"



B2 / AE-360 WD FRAME TYPE ELEVS
SCALE: 1/4" = 1'-0"



D2 / AE-360 DOOR PANEL TYPE ELEVS
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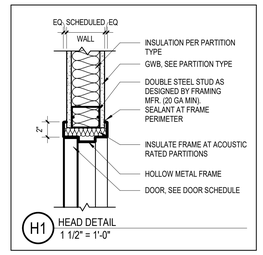
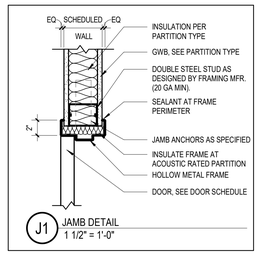
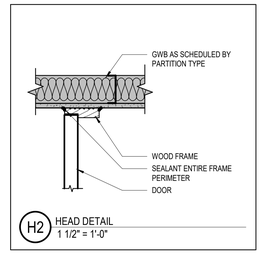


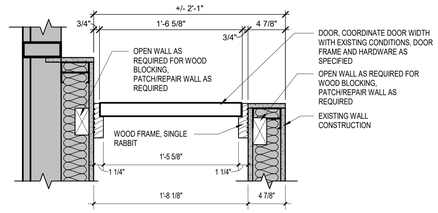
H1 HEAD DETAIL
1 1/2" = 1'-0"



J1 JAMB DETAIL
1 1/2" = 1'-0"



H2 HEAD DETAIL
1 1/2" = 1'-0"



J2 JAMB DETAIL
1 1/2" = 1'-0"

DOORS & GLAZED OPENINGS NOTES

1. ALL DOOR FRAMES SHALL BE HOLLOW METAL WITH A 2" FACE DIMENSION, EXCEPT AS NOTED AT DOOR SCHEDULE.
2. ALL FLOORING TRANSITIONS UNDER DOORS SHALL BE IN ACCORDANCE WITH TRANSITION DETAILS ON **AE-360.**
3. THE FLOOR ON BOTH SIDES OF A DOOR SHALL BE LEVEL AND SHALL HAVE THE SAME ELEVATION ON BOTH SIDES OF THE DOOR FOR A DISTANCE ON EACH SIDE AT LEAST EQUAL TO THE WIDTH OF THE WIDEST SINGLE DOOR PANEL **(NFPA 101 2012 EDITION 7.2.1.3.1 & 7.2.1.3.2).**
4. ALL DOORS WITH SELF-CLOSERS SHALL CONFORM TO ALL APPLICABLE CODES OR HAVE A MAXIMUM FORCE ALLOWABLE OF 5 LBF AND HAVE A MINIMUM SWEEP PERIOD OF 3 SECONDS FROM 70 DEGREES OPEN TO 3" LATCH FROM LATCH TO LEADING DOOR EDGE, WHICHEVER IS MORE STRICT SHALL APPLY. SELF CLOSING DEVICES SHALL MEET THE REQUIREMENTS OF THE **LATEST EDITION OF THE LIFE SAFETY CODE AND NFPA 80.**
5. SWING AND FORCE TO OPEN DOORS SHALL MEET THE REQUIREMENTS OF THE **LATEST EDITION LIFE SAFETY CODE, CHAPTER 7.2.1.4.5.**
6. DOORS/HARDWARE HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS.
7. OPENING HEIGHTS AND WIDTHS NOTED ARE NOMINAL ROUGH OPENING WIDTHS. VERIFY IN FIELD ALL DIMENSIONS.
8. AT ALL HOLLOW METAL FRAMES INSTALLED IN STUD WALLS THAT HAVE SOUND BATTS, FILL HOLLOW METAL FRAMES WITH SOUND BATTS.

DOORS HARDWARE

SET 01:
- (4) 5055 INVISIBLE PIVOT HINGES, MODEL 2/255
- 1 PULL, ROCKWOOD, RM760, US 26 D, CONCEALED EDGE DOOR PULL
- 1 LATCH, ROCKWOOD, 590, ROLLER LATCH & STRIKE 4526
- (4) SILENCERS, CLEAR OR BLACK

DOOR SCHEDULE ABBREVIATIONS

EXST	EXISTING
FF	FACTORY FINISH
HGT	HEIGHT
HM	HOLLOW METAL
	• HM1 = STANDARD DOUBLE-RABBET FRAME
	• HM2 = CASED OPENING FRAME
	• HM3 = SINGLE RABBET FRAME
	• HM4 = DOUBLE EGRESS FRAME
	• HM5 - not used
	• HM6 = POCKET DOOR FRAME
	• HM7 = DOUBLE ACTING / NO RABBET FRAME
IN	INCH
MAX	MAXIMUM
MIN	MINIMUM
PNT	PAINT
REV	REVISION (SEE SUBMITTAL/REVISION SCHEDULE AT RIGHT SHEET MARGIN)
RO	ROUGH OPENING
SCW	SOLID CORE WOOD
SIM	SIMILAR
STN	STAINED
WD	WOOD
	• WD1 = STANDARD DOUBLE-RABBET FRAME
	• WD2 = CASED OPENING FRAME
	• WD3 = SINGLE RABBET FRAME
	• WD4 = DOUBLE EGRESS FRAME
	• WD5 - not used
	• WD6 = POCKET DOOR FRAME
	• WD7 = DOUBLE ACTING / NO RABBET FRAME

HINGE SIDE APPROACH / REVERSE SWING DOOR

FRONT APPROACH / REVERSE SWING DOOR

HINGE SIDE APPROACH

HINGE SIDE APPROACH / REVERSE SWING DOOR

FRONT APPROACH

LATCH SIDE APPROACH

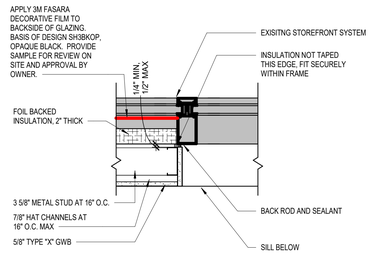
LATCH SIDE APPROACH / REVERSE DOOR SWING

FRONT APPROACH FOR DOORWAYS WITHOUT DOORS OR GATES

SIDE APPROACH FOR DOORWAYS WITHOUT DOORS OR GATES

DIRECTION OF APPROACH

A7 / AE-360 ACCESSIBLE APPROACH DIAGRAMS
SCALE: 1/2" = 1'-0"



E5 / AE-360 WINDOW JAMB DETAIL
SCALE: 1 1/2" = 1'-0"

E7 / AE-360 WINDOW SECTION AT TOILET ROOM
SCALE: 1 1/2" = 1'-0"

TYPICAL DOOR HARDWARE MOUNTING HEIGHTS
SCALE: 3/4" = 1'-0"

SSOE®

PROFESSIONAL SEALS:

STATE OF SOUTH CAROLINA — SSOE, Inc. — Toledo, OH — 93001 — REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA — ADRIANE M. McGILLIS — Columbia, SC — No. 8168 — REGISTERED ARCHITECT

CONSULTANTS:

KEYPLAN

SUBMITTAL/REVISION SCHEDULE:

NO.	DATE	DESCRIPTION
1	11.14.25	PERMIT DRAWINGS

☐ APPROVED FOR CONSTRUCTION
■ NOT APPROVED FOR CONSTRUCTION

CLIENT INFORMATION:

MIDLANDS TECHNICAL COLLEGE
1260 LEXINGTON DRIVE
WEST COLUMBIA, SC
29170-2176

JHA PROJECT #: H59-6338-SG

PROJECT INFORMATION:

PRESIDENT'S SUITE RENOVATION
BELTLINE CAMPUS

316 S BELTLINE BLVD
COLUMBIA, SOUTH CAROLINA

SSOE PROJECT #: 025-00554-00
SSOE MANAGER: ADRIANE MCGILLIS

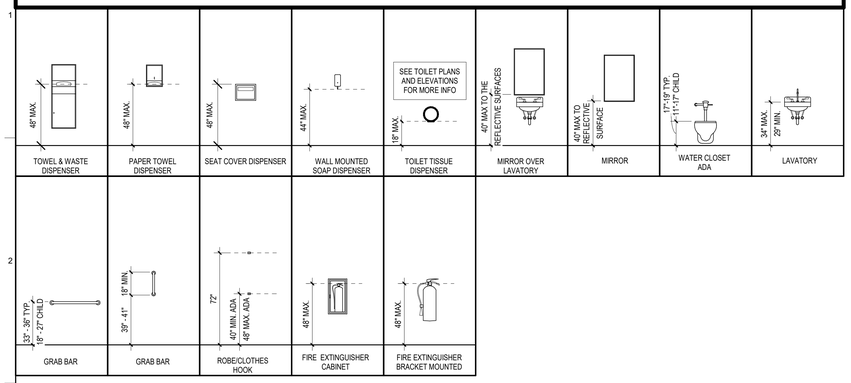
SSOE
1501 Main Street, Suite 730
Columbia, SC 29201
T. (803) 765-0320

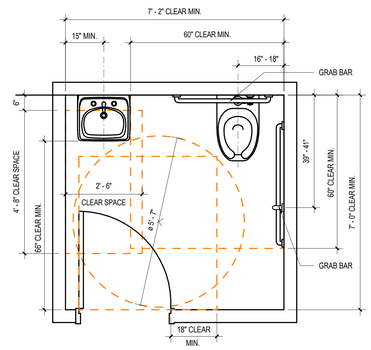
DOOR SCHEDULE AND DETAILS

AE-360

MOUNTING HEIGHTS

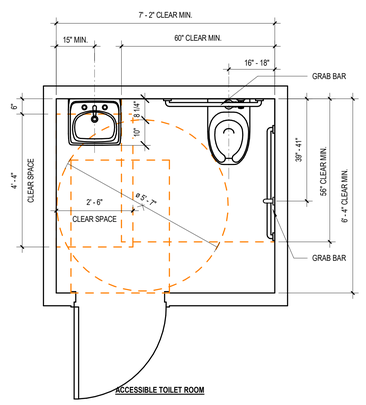
1. INSTALL ALL ITEMS IN ACCORDANCE WITH THIS DRAWING
2. WHERE DIMENSIONS PROVIDED VARY FROM MANUFACTURER'S RECOMMENDATIONS FOR ADA BARRIER FREE MOUNTING HEIGHTS, THE MANUFACTURER'S RECOMMENDATIONS WILL BE THE STANDARD.
3. DIMENSIONS ARE TO TOP OF FINISH FLOOR
4. MAINTAIN INTEGRITY OF FIRE RATING WHERE ACCESSORIES ARE MOUNTED IN RATED WALLS
5. PROVIDE WOOD BLOCKING FOR ALL ACCESSORIES MOUNTED ON GWB PARTITION.





ACCESSIBLE TOILET ROOM

E2 / AE-400 MIN. CLEARANCES AT ADA TOILET ROOMS
SCALE: 1/2" = 1'-0"



ACCESSIBLE TOILET ROOM

G2 / AE-400 MIN. CLEARANCES AT ADA TOILET ROOMS
SCALE: 1/2" = 1'-0"

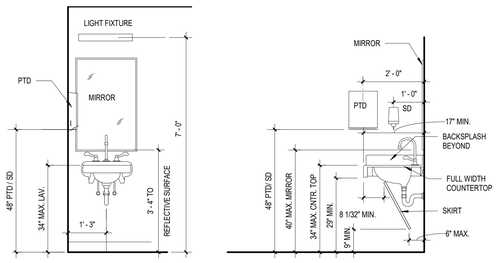
TOILET ROOM NOTES

1. REFER TO TYPICAL TOILET ELEVATIONS, MOUNTING HEIGHTS, ETC.
2. PROVIDE WOOD BLOCKING IN GYPSUM BOARD PARTITIONS AT WALL MOUNTED EQUIPMENT - TYPICAL.
3. SLOPE SINK TO HAVE 4'-0" FIBERGLASS REINFORCED PANEL (FRP) EACH WAY, 6'-0" HIGH WITH MOP HOLDER AND SHELF ABOVE.

FLOOR PLAN KEYNOTES

KEYNOTE #	KEYNOTE DESCRIPTION
01	PARTITION NOT TO REMAIN RATED
02	INFILL OPENING IN WALL WHERE EXISTING DOOR IS REMOVED. INSTALL GWB FLUSH WITH ADJACENT CONSTRUCTION.
03	PROVIDE COAT HOOK AT DOOR. BASIS OF DESIGN: BOBORICK B-6451 MBLK MATTE BLACK WITH WALL BUMPER
04	NEW SOLID SURFACE SILL AT WINDOW. SEE FINISH SCHEDULE FRO MORE INFO.
05	PROVIDE BLOCKING AS REQUIRED FOR GRAB BARS (FUTURE @ PRESIDENT'S SUITE TOILET ROOM)
06	G.C. TO PROVIDE MOVE-IN ASSISTANCE FOR FURNITURE PRIOR TO REINSTALLING STOREFRONT. SEE SPECIFICATIONS FOR MORE INFORMATION.

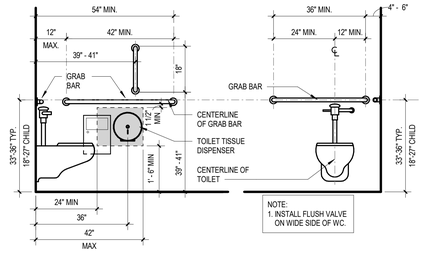
A3 / AE-400 TYPICAL MOUNTING HEIGHTS
SCALE: 1/4" = 1'-0"



NOTES:
1. 1. INSTALL INSULATED BOOT ON HOT WATER & DRAIN LINES AT ALL WALL MTD. LAVATORIES & COUNTER MOUNTED SINKS.
2. INSTALL MILDEW RESISTANT SILICONE SEALANT FLUSH W/ TOP OF LAVATORY.

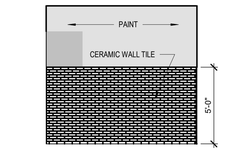
A4 / AE-400 TYP WALL MOUNTED LAVATORY ELEVATION(S)
SCALE: 1/2" = 1'-0"

NOTE:
1. INSTALL MILDEW RESISTANT SILICONE SEALANT FLUSH W/ TOP OF WC.

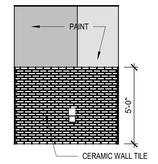


NOTE:
1. INSTALL FLUSH VALVE ON WIDE SIDE OF WC.

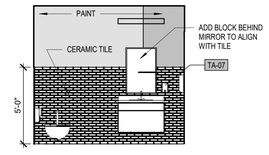
C4 / AE-400 ADA TOILET & GRAB BAR ELEVATIONS
SCALE: 1/2" = 1'-0"



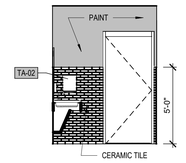
F3 / AE-400 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



G3 / AE-400 EAST ELEVATION
SCALE: 1/4" = 1'-0"



H3 / AE-400 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



J3 / AE-400 WEST ELEVATION
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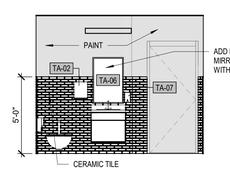

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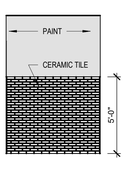

G4 / AE-400 EAST ELEVATION
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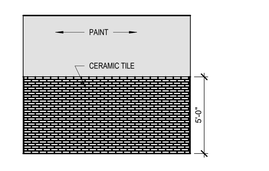

H4 / AE-400 SOUTH ELEVATION
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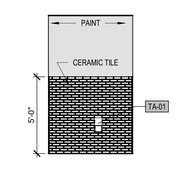
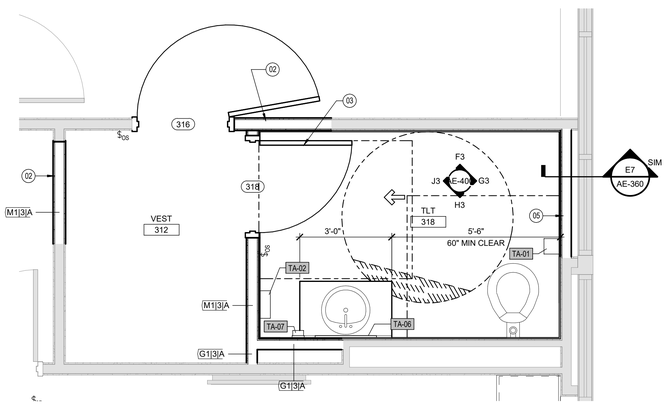
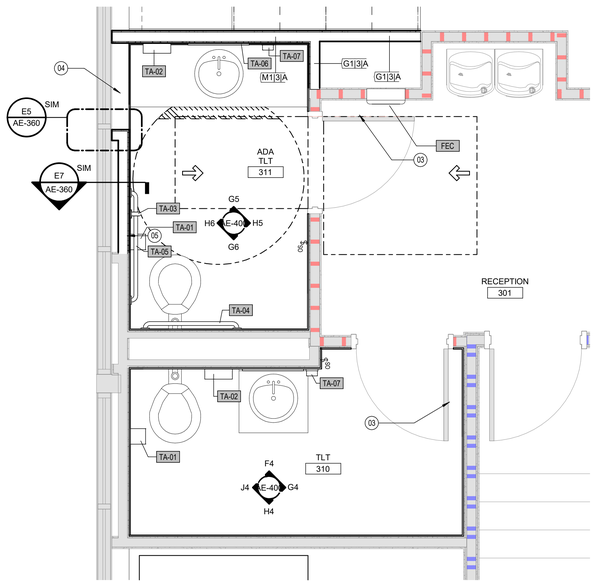


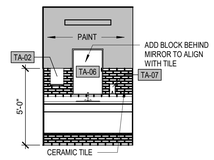
J4 / AE-400 WEST ELEVATION
SCALE: 1/4" = 1'-0"



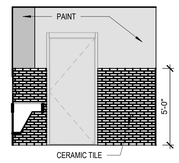
A7 / AE-400 ENLARGED TOILET PLAN
SCALE: 1/2" = 1'-0"



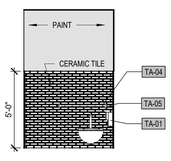
D7 / AE-400 ENLARGED TOILET PLAN
SCALE: 1/2" = 1'-0"



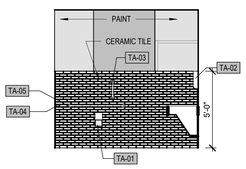
G5 / AE-400 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



H5 / AE-400 EAST ELEVATION
SCALE: 1/4" = 1'-0"



G6 / AE-400 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



H6 / AE-400 WEST ELEVATION
SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES SCHEDULE

ITEM #	DESCRIPTION	MFR.	MODEL #	PROVIDED BY	REV
TA09	SURFACE MOUNTED PAPER TOWEL DISPENSER - 10.75" W X 7.125" H X 4" DEEP	NATIONAL TOILET PARTITIONS	TT-141-200	CFCI	
TA-01	TOILET TISSUE (SINGLE ROLL) DISPENSER – SURFACE MOUNTED	BOBRICK	B-3588	CFCI	
TA-02	PAPER TOWEL (FOLDED) DISPENSER – SURFACE MOUNTED	BOBRICK	B-2620	CFCI	
TA-03	GRAB BAR - 18" VERTICAL	BOBRICK	B-6806 Vertical	CFCI	
TA-04	GRAB BAR - 36" HORIZONTAL	BOBRICK	B-6806 Series	CFCI	
TA-05	GRAB BAR - 42" HORIZONTAL	BOBRICK	B-6806 Series	CFCI	
TA-06	MIRROR UNIT - 24" WIDE BY 36" TALL	BOBRICK	B-290	CFCI	
TA-07	CLASSIS SERIES SURFACE MOUNTED SOAP DISPENSER	BOBRICK	B-2111	CFCI	

ssoe®

PROFESSIONAL SEALS:

STATE OF SOUTH CAROLINA — SSOE, Inc. — Toledo, OH — 93001 — REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA — ADRIANE M. McGILLIS — Columbia, SC — No. 8169 — REGISTERED ARCHITECT

CONSULTANTS:

KEYPLAN

SUBMITTAL/REVISION SCHEDULE:

NO.	DATE	DESCRIPTION
1	11.14.25	PERMIT DRAWINGS

□ APPROVED FOR CONSTRUCTION
■ NOT APPROVED FOR CONSTRUCTION

CLIENT INFORMATION:

MIDLANDS TECHNICAL COLLEGE
1260 LEXINGTON DRIVE
WEST COLUMBIA, SC
29170-2176

JHA PROJECT #: H59-6338-SG

PROJECT INFORMATION:

PRESIDENT'S SUITE RENOVATION
BELTLINE CAMPUS

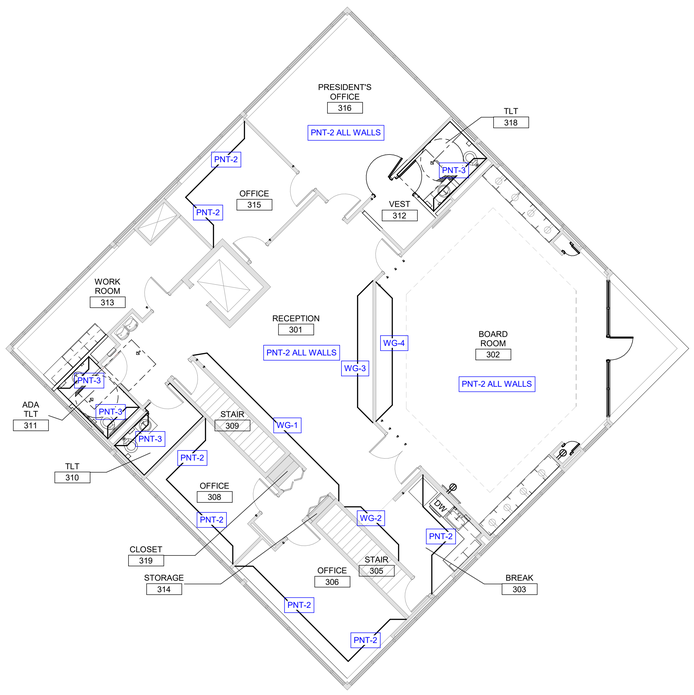
316 S BELTLINE BLVD
COLUMBIA, SOUTH CAROLINA

SSOE PROJECT #: 025-00554-00
SSOE MANAGER: ADRIANE MCGILLIS

ssoe
1501 Main Street, Suite 730
Columbia, SC 29201
T. (803) 765-0320

TOILET PLANS, ELEVATIONS AND DETAILS

AE-400



A6
AE-710

LEVEL 3 FINISH PLAN

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

ROOM FINISH SCHEDULE

NO	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	REMARKS
Level 3						
301	RECEPTION	CPT-2	WOOD / PNT-4	PNT-1 / PNT-2	APC-1	WALL BRANDING GRAPHICS AS SHOWN ON FINISH PLAN
302	BOARD ROOM	CPT-2	WOOD / PNT-4	PNT-1 / PNT-2	APC-2	PAINT WOOD TRIM, PNT-4 / QTZ-1 COUNTERTOP / PLAM-1 BASE CABINET
303	BREAK	LVP-1	RB-1	PNT-1 / PNT-2	APC-1	PAINT WINDOW SILL, PNT-4 / SS-1 COUNTERTOP / PLAM-2 BASE CABINET
305	STAIR	--	--	--	--	
306	OFFICE	CPT-1	RB-1	PNT-1 / PNT-2	APC-1	REPAINT WINDOW SILL, PNT-4
308	OFFICE	CPT-1	RB-1	PNT-1 / PNT-2	APC-1	REPAINT WINDOW SILL, PNT-4
309	STAIR	--	--	--	--	
310	TLT	PFT-1	CWT-1	CWT-1 / PNT-1 / PNT-3	APC-1	CWT-1 TO 48" AFF / PAINT WINDOW SILL, PNT-4 / PNT-3 WET WALL / QTZ-1 COUNTERTOP / PLAM-2 APRON
311	ADA TLT	PFT-1	CWT-1	CWT-1 / PNT-1 / PNT-3	APC-1	CWT-1 TO 48" AFF / PAINT WINDOW SILL, PNT-4 / PNT-3 WET WALL / QTZ-1 COUNTERTOP / PLAM-2 APRON
312	VEST	PFT-1	RB-1	PNT-1	APC-1	PAINT WINDOW SILL, PNT-4
313	WORK ROOM	LVP-1	RB-1	PNT-1	APC-1	PAINT WOOD TRIM, PNT-4 / SS-1 COUNTERTOP / PLAM-1 BASE CABINET
314	STORAGE	CPT-1	RB-1	PNT-1	APC-1	
315	OFFICE	CPT-1	RB-1	PNT-1 / PNT-2	APC-1	PAINT WINDOW SILL, PNT-4
316	PRESIDENT'S OFFICE	CPT-1	WOOD / PNT-4	PNT-2	APC-1	PAINT WINDOW SILL, PNT-4 / PAINT EXISTING CROWN MOULDING PNT-4
318	TLT	PFT-1	CWT-1	CWT-1 / PNT-1 / PNT-3	APC-1	CWT-1 TO 48" AFF / PAINT WINDOW SILL, PNT-4 / PNT-3 WET WALL / QTZ-1 COUNTERTOP / PLAM-2 APRON
319	CLOSET	CPT-1	RB-1	PNT-1	APC-1	
320	BALCONY	--	--	--	--	

FINISH LEGEND

CARPET

CPT-1
MANUFACTURER: MANNINGTON
PATTERN: LOCUS
COLOR: TRANSIENT 51607
LOCATION: TYPICAL OFFICES

CPT-2
MANUFACTURER: MANNINGTON
PATTERN: THRESHOLD
COLOR: TRANSIENT 51607
LOCATION: BOARDROOM

LUXURY VINYL PLANK

LVP-1
MANUFACTURER: J&J FLOORING
PATTERN: POWER PLAY V5020
COLOR: 1080 KNOWLEDGE
LOCATION: BREAK / WORK AREA

RUBBER BASE

RB-1
MANUFACTURER: TARKETT
PATTERN: 4" COVE
COLOR: 121 CEMENT

PAINT

PNT-1
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW7641 COLONNADE GRAY
LOCATION: GENERAL WALLS

PNT-2
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW6247 KRYPTON
LOCATION: ACCENT WALLS

PNT-3
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW7605 GALE FORCE
LOCATION: ACCENT WALLS

PNT-4
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW7005 PURE WHITE
LOCATION: TRIM PAINT

CERAMIC WALL TILE

CWT-1
MANUFACTURER: DALTILE
PATTERN: REVALIA REMIX
COLOR: RV09 - FESTIVE GRAY
LOCATION: TOILET WALLS
HEIGHT: 4'-0" ALL WALLS

SOLID SURFACE

SS-1
MANUFACTURER: CORIAN
COLOR: ASH AGGREGATE
LOCATION: COUNTERS / WINDOW SILLS (WHERE REQ'D)

PLASTIC LAMINATE

PL-1
MANUFACTURER: WILSONART
PATTERN: 7936K-07
COLOR: WILLIAMSBURG CHERRY
FINISH: TEXTURED GLOSS
LOCATION: BASE CABINETS - BOARDROOM

PL-2
MANUFACTURER: WILSONART
PATTERN: 4857-60
COLOR: SHADOW ZEPHYR
FINISH: MATTE FINISH
LOCATION: BASE CABINETS - BREAK ROOM / WORK ROOM

QUARTZ SURFACE

QTZ-1
MANUFACTURER: CAMBRIA
COLOR: NEW QUAY
LOCATION: BOARD ROOM COUNTER

ACOUSTICAL PANEL CEILING *

APC-1
MANUFACTURER: ARMSTRONG
PATTERN: LYRA 8361PB - 9/16" SQUARE TEGULAR
COLOR: WH - WHITE
SIZE: 24" X 24" X 1"
GRID: 9/16" SUPRAFINE
SUSPENSION: SEISMIC RX SUSPENSION SYSTEMS W/ PERIMETER CLIPS IN LIEU OF 2" PERIMETER TRIM

APC-2
MANUFACTURER: ARMSTRONG
PATTERN: LYRA 8456PB - 9/16" SQUARE TEGULAR
COLOR: WH - WHITE
SIZE: 48" X 48" X 1"
GRID: 9/16" SUPRAFINE
SUSPENSION: SEISMIC RX SUSPENSION SYSTEMS W/ PERIMETER CLIPS IN LIEU OF 2" PERIMETER TRIM

* PROJECT WILL REQUIRE INSTALLATION FOLLOWING SEISMIC GUIDELINES FOR ALL CEILINGS SUSPENSION SYSTEMS

WALL GRAPHICS

WG-1
MANUFACTURER: INNERFACE SIGNAGE
PATTERN: CUSTOM GRAPHIC IN COORDINATION W/ MTC MARKETING TEAM
LOCATION: RECEPTION WALL - WEST
ALLOWANCE: $20,000

WG-2
MANUFACTURER: INNERFACE SIGNAGE
PATTERN: TRIBUTE WALL - PRES STAFF
LOCATION: RECEPTION WALL - WEST
ALLOWANCE: $7,500

WG-3
MANUFACTURER: INNERFACE SIGNAGE
PATTERN: TRIBUTE WALL - MTC COMMISSION
LOCATION: RECEPTION WALL - EAST
ALLOWANCE: $10,000

WG-4
MANUFACTURER: EXISTING TO BE RETAINED FOR REUSE
PATTERN: FEATURE WALL - BOARDROOM NAMING
LOCATION: BOARDROOM - WEST

GENERAL FINISH NOTES

GENERAL NOTES:

1. FINISHES SHALL HAVE A CLASS "C" FLAME SPREAD RATING OR BETTER.
2. FINISHES AND MATERIALS SHALL BE AS INDICATED ON THE FINISH PLANS. NO SUBSTITUTIONS WILL BE ACCEPTED WITHOUT PRIOR APPROVAL OF THE ARCHITECT.
3. CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONTRACT DOCUMENT FINISH PLANS AND SHALL AT ONCE REPORT TO THE PROJECT ARCHITECT ANY INCONSISTENCY OR OMISSION DISCOVERED.
4. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
5. CONTRACTOR IS REQUIRED TO SUBMIT SHOP DRAWINGS FOR CASEWORK AND CEILINGS FOR COORDINATION AND TO CONFIRM CONTRACT UNDERSTANDING.
6. CONTRACTOR IS TO VERIFY THE AVAILABILITY OF ALL FINISH MATERIALS FROM THE MANUFACTURER AND TO MAKE ARRANGEMENTS WITH THE MANUFACTURER TO HAVE THE APPROPRIATE SUPPLY IN STOCK FOR THE PROJECT. CONTRACTOR IS TO OBTAIN MATERIALS AND STORE THEM IN A SECURE FACILITY IF THE MANUFACTURE PLANS TO DISCONTINUE THE SPECIFIED MATERIALS.
7. ALL INTERIOR FINISHES SHALL COMPLY WITH NFPA 101, SECTION 10 AND SUBSEQUENT SECTIONS RELATING TO THE SPECIFIC PROJECT TYPE.
8. COORDINATE FLOOR, WALL, AND CEILING INSTALLTION TO ENSURE MATERIALS ARE FLUSH WITH ADJACENT MATERIALS.

FLOOR & BASE:

1. AT ALL TRANSITIONS BETWEEN DIFFERENT FLOOR FINISH MATERIALS, INSTALL SILLS OR THRESHOLDS AS FOLLOWS:
   A. LVT TO CPT - RUBBER
   B. PORCELAIN TO CPT - MARBLE
2. CONTRACTOR TO PROVIDE COLOR CHART OF MANUFACTURER'S FULL RANGE OF COLOR OPTIONS FOR TRANSITION FINISHES DURING SUBMITTAL PROCESS FOR SELECTION BY ARCHITECT.
3. REMOVE CURING COMPOUNDS FROM ALL CONCRETE SLABS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS PRIOR TO THE INSTALLATION OF ANY FLOOR FINISH MATERIALS.
4. CONTRACTOR TO PROVIDE COLOR CHART OF MANUFACTURER'S FULL RANGE OF COLOR OPTIONS DURING SUBMITTAL PROCESS FOR SELECTION BY ARCHITECT.
5. MOISTURE TEST ALL NEW AND EXISTING CONCRETE SLABS ON GRADE PRIOR TO INSTALLATION OF ANY FLOOR FINISH MATERIALS. DO NOT INSTALL FINISHES UNLESS THE MOISTURE EMISSION RATE IS ACCEPTABLE TO THE FINISH MANUFACTURER AND MAINTAINS ALL WARRANTIES. PERFORM TESTS AS SPECIFIED. SCHEDULE SLAB POURS AND TESTS TO ALLOW PROPER CURING AND TESTING TIMES WITHOUT DELAYS TO THE OVERALL SCHEDULE.
6. FLOOR PATTERNS ON PLANS ARE REPRESENTATIVE FOR MATERILA TYPE. FOR TILE FLOORS, INSTALL SO THAT NOT LESS THAN HALF OF A TILE IS LEFT AT ALL EDGES.
7. INSTALL TILE PER TCNA GUIDELINES. FORM CONTROL JOINTS PER EJ171 DURING INSTALLATION OF SETTING MATERIALS, MORTAR BEDS AND TILE. DO NOT SAW CUT JOINTS AFTER INSTALLING TILE. MATCH SOFT JOINTS AS CLOSE AS POSSIBLE TO SAW CUT JOINTS IN THE CONCRETE SLAB USING TILE PATTERNS. SOFT JOINT TO MATCH GROUT COLOR. COORDINATE LOCATION OF CONTROL JOINTS WITH ARCHITECT AFTER OBSERVATION OF SITE CONDITIONS.
8. IF ANY DIMENSIONS OR CONDITIONS OF TILE INSTALLATION ARE IN QUESTION, CONTACT ARCHITECT FOR CLARIFICATION.
9. CONTRACTOR TO SUBMIT ALL AVAILABLE GROUT COLORS FOR SELECTION BY ARCHITECT.

WALL & CEILING:

1. WALLS SHALL RECEIVE MFR'S RECOMMENDED PRIMER COAT AND TWO (2) COATS MIN. OF LATEX EGGSHELL FINISH, UNO.
2. GRILLES, DIFFUSERS AND ACCESS PANELS SHALL BE PAINTED TO MATCH THE WALL OR CEILING ON WHICH THEY ARE LOCATED UNO.
3. GYPSUM BOARD SOFFITS & CEILINGS SHALL BE PAINTED (PNT-4) AND RECEIVE MFR'S RECOMMENDED PRIMER COAT AND TWO (2) COATS MIN. OF LATEX FLAT FINISH, UNO.
4. HOLLOW METAL DOOR FRAMES SHALL BE PAINTED (PNT-4) AND RECEIVE MFR'S RECOMMENDED PRIMER COAT AND TWO (2) COATS MIN OF LATEX SEMI-GLOSS FINISH UNO.

MILLWORK:

1. AT ALL MILLWORK BASE CABINETS, PROVIDE BASE AS SCHEDULED FOR ADJACENT WALLS UNO
2. EXISTING WOOD BASE MOULDING TO REMAIN. PATCH AREAS OF CONSTRUCTION WITH BASE MATCHING EXISTING PROFILE. DO NOT INSTALL SECTIONS SHORTER THAN 48" LONG. IN INSTANCES WHERE INFILL WOULD REQUIRE BASE MOULDING PIECES SHORTER THAN 48", REMOVE ADJACENT PIECES AND INSTALL LONGER LENGTHS.
3. ALL INTERIOR WOOD FRAMES AND TRIM SHALL BE PAINTED (PNT-4) WITH MFR'S RECOMMENDED PRIMER COAT AND TWO (2) COATS MIN. OF LATEX SEMI-GLOSS FINISH UNO.
4. FOR WOOD DOORS AND TRIM INSTALLED IN BOARDROOM FOR CLOSETS, PAINT DOORS TO MATCH WALL COLOR WITH MFR'S RECOMMENDED PRIMER COAT AND TWO (2) COATS MIN. OF LATEX SEMI-GLOSS FINISH UNO.
5. BOARDROOM CHAIR RAIL TO BE PAINTED (PNT-4) WITH MFR'S RECOMMENDED PRIMER COAT AND TWO (2) COATS MIN. OF LATEX SEMI-GLOSS FINISH UNO.
6. SEE CASEWORK AND INTERIOR ELEVATIONS FOR IDENTIFICATION OF ARCHITECTURAL CASEWORK. REFER TO FINISH SCHEDULE FOR MATERIAL AND FINISH SELECTIONS FOR CASEWORK COMPONENTS.
7. ALL HINGES TO BE HEAVY-DUTY CONCEALED HINGES UNLESS OTHERWISE NOTED. SEE ELEVATIONS. ALL DRAWERS TO HAVE MINIMUM WEIGHT CAPACITY OF 100 LBS.
8. CABINET HARDWARE TO BE _____

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STATE OF SOUTH CAROLINA — ADRIANE M. McGILLIS — Columbia, SC — No. 8169 — REGISTERED ARCHITECT

CONSULTANTS:

KEYPLAN

SUBMITTAL/REVISION SCHEDULE:

NO.	DATE	DESCRIPTION
1	11.14.25	PERMIT DRAWINGS

□ APPROVED FOR CONSTRUCTION
■ NOT APPROVED FOR CONSTRUCTION

CLIENT INFORMATION:

MIDLANDS TECHNICAL COLLEGE
1260 LEXINGTON DRIVE
WEST COLUMBIA, SC
29170-2176

JHA PROJECT #: H59-6338-SG

PROJECT INFORMATION:

PRESIDENT'S SUITE RENOVATION
BELTLINE CAMPUS

316 S BELTLINE BLVD
COLUMBIA, SOUTH CAROLINA

SSOE PROJECT #: 025-00554-00
SSOE MANAGER: ADRIANE MCGILLIS

ssoe
1501 Main Street, Suite 730
Columbia, SC 29201
T. (803) 765-0320

LEVEL 3 FINISH PLAN, SCHEDULE & LEGEND

AE-710

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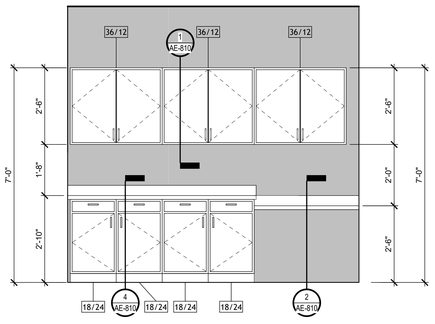
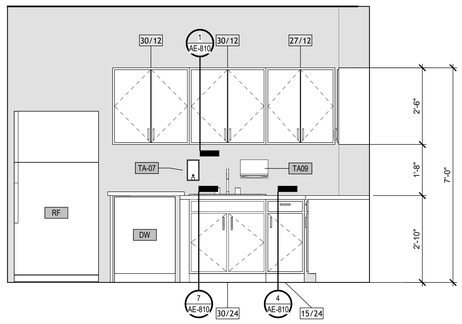
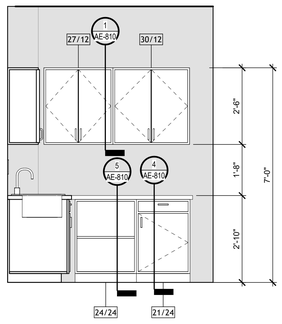


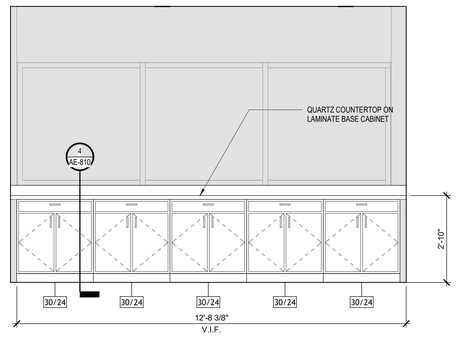
A2 AE-810 WORKROOM - SOUTH ELEV
SCALE: 1/2" = 1'-0"



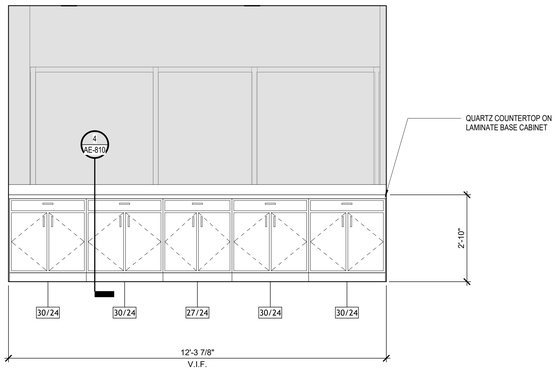
C2 AE-810 BREAK AREA - EAST ELEV
SCALE: 1/2" = 1'-0"



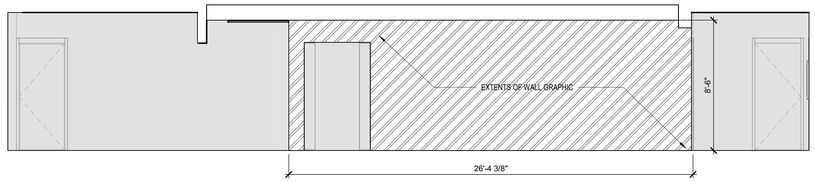
E2 AE-810 BREAK AREA - SOUTH ELEVATION
SCALE: 1/2" = 1'-0"



G2 AE-810 BOARDROOM - SOUTH ELEV
SCALE: 1/2" = 1'-0"



A4 AE-810 BOARDROOM - EAST ELEV
SCALE: 1/2" = 1'-0"



D3 AE-810 INTERIOR LOBBY ELEVATION - GRAPHIC WALL
SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES SCHEDULE

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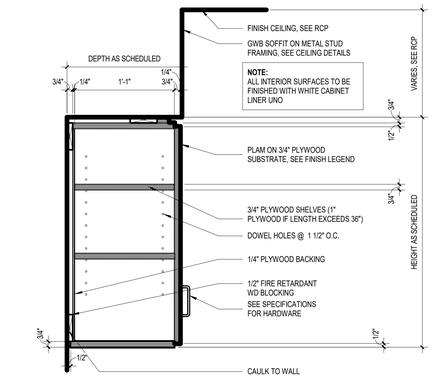
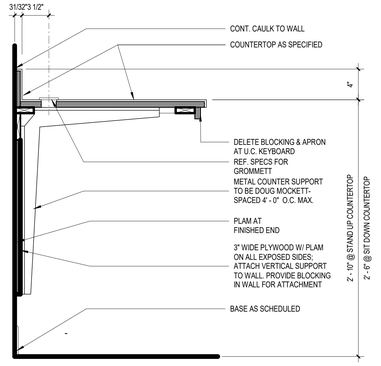
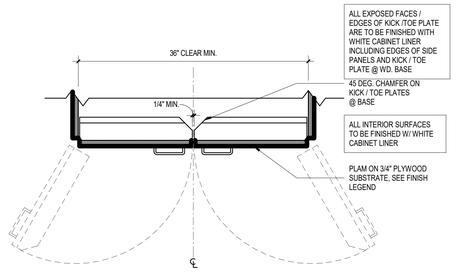
TA-07	CLASSIS SERIES SURFACE MOUNTED SOAP DISPENSER	BOBRICK	B-2111	CFCI	



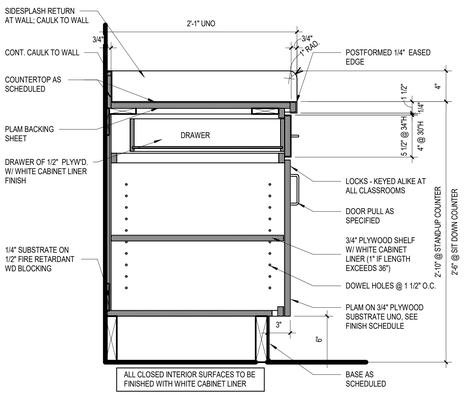
1 UPPER CABINET CLOSED SHELVING
1 1/2" = 1'-0"



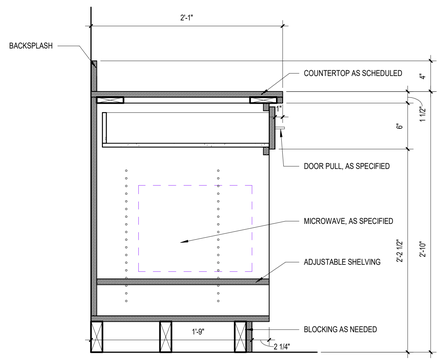
2 OPEN COUNTERTOP DETAIL
1 1/2" = 1'-0"



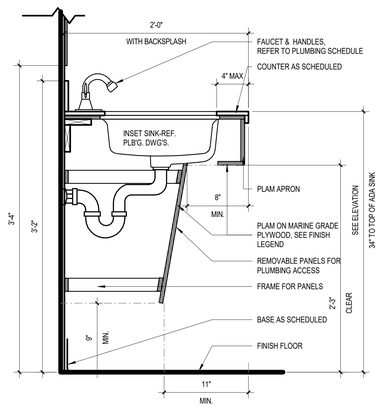
3 PLAN DETAIL @ ADA ACCESSIBLE SINK
1 1/2" = 1'-0"



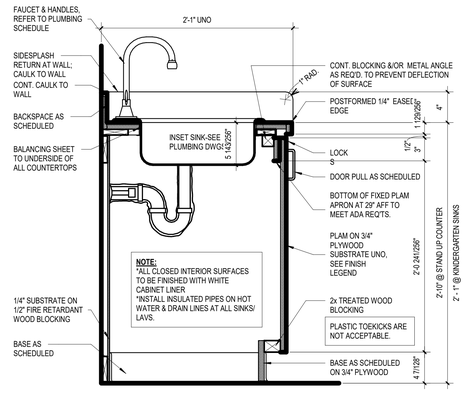
4 BASE CABINET W/ DOOR & DRAWER
1 1/2" = 1'-0"



5 OPEN BASE W/ MICROWAVE & DRAWER
1 1/2" = 1'-0"



6 SINK CABINET DETAIL
1 1/2" = 1'-0"



7 SINK CABINET DETAIL W/ CLOSED DOOR
1 1/2" = 1'-0"

CASEWORK LEGEND

PROFESSIONAL SEALS:

STATE OF SOUTH CAROLINA — SSOE, Inc. — Toledo, OH — 93001 — REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA — ADRIANE M. McGILLIS — Columbia, SC — No. 8168 — REGISTERED ARCHITECT

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1260 LEXINGTON DRIVE
WEST COLUMBIA, SC
29170-2176

JHA PROJECT #: H59-6338-SG

PROJECT INFORMATION:

PRESIDENT'S SUITE RENOVATION BELTLINE CAMPUS

316 S BELTLINE BLVD
COLUMBIA, SOUTH CAROLINA

SSOE PROJECT #: 025-00554-00
SSOE MANAGER: ADRIANE MCGILLIS

SSOE
1501 Main Street, Suite 730
Columbia, SC 29201
T. (803) 765-0320

INTERIOR ELEVATIONS & DETAILS

AE-810