

University of South Carolina Aiken

H&SS Restroom Renovation

471 University Pkwy, Aiken, South Carolina

State Project Number: H29-I364 50003418

February 18, 2021

ADDENDUM NO. 2

This addendum forms a part of the Contract documents and modifies the original Bidding Documents and any previous Addenda as noted below. Acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may subject Bidder to disqualification.

MODIFICATIONS TO PREVIOUS ADDENDA:

None

MODIFICATIONS TO PROJECT MANUAL:

None

MODIFICATIONS TO DRAWINGS:

ARCHITECTURAL DRAWINGS:

1. Reference sheet AD102. **DELETE** Sheet AD102, dated 01/29/2021. **ADD** Sheet AD102, dated 01/29/2021, revised 02/18/2021, attached to this addendum.
2. Reference sheet A402. **DELETE** Sheet A402, dated 01/29/2021. **ADD** Sheet A402, dated 01/29/2021, revised 02/18/2021, attached to this addendum.

ELECTRICAL DRAWINGS:

1. Reference sheet ED01. **DELETE** Sheet ED01, dated 01/29/2021. **ADD** Sheet ED01, dated 01/29/2021, revised 02/18/2021, attached to this addendum.
2. Reference sheet E100. **DELETE** Sheet E100, dated 01/29/2021. **ADD** Sheet E100, dated 01/29/2021, revised 02/18/2021, attached to this addendum.

MECHANICAL DRAWINGS:

None

PLUMBING DRAWINGS:

1. Reference sheet PD101. **DELETE** Sheet PD101, dated 01/29/2021. **ADD** Sheet PD101, dated 01/29/2021, revised 02/18/2021, attached to this addendum.
2. Reference sheet P201. **DELETE** Sheet P201, dated 01/29/2021. **ADD** Sheet P201, dated 01/29/2021, revised 02/18/2021, attached to this addendum.
3. Reference sheet P301. **DELETE** Sheet P301, dated 01/29/2021. **ADD** Sheet P301, dated 01/29/2021, revised 02/18/2021, attached to this addendum.

REQUESTED PRODUCT APPROVALS:

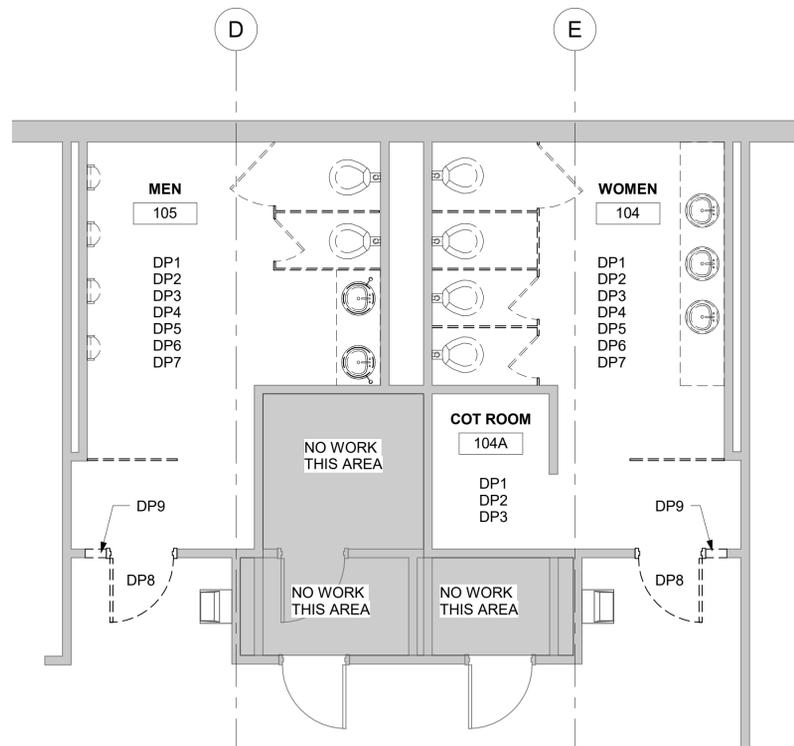
1. Approved Manufacturer Addition: Tech Lighting's Basis 24 Bath #700BCBAS24S-LED927-277 has been added as an approved equal to Lighting Fixture B, listed in the Lighting Fixture Schedule on Sheet E002. See spec sheet attached.
2. Approved Manufacturer Addition: The lighting manufacturer Elite Lighting Manufacture has been added as an approved equal to the Light Fixture schedule on Sheet E002. See attached lighting schedule from Schneider Lighting, dated 02/12/2021. Please note the manufacturer Oxygen has NOT been approved as an equal.
3. Approved Manufacturer Addition: The toilet accessory manufacturer Saniflow has been added as an approved equal to TA-11 Baby Changing Station and TA-13 Electric Hand Dryer. See spec sheets attached. Contractor to verify voltage of hand dryer prior to ordering.

QUESTIONS FROM CONTRACTORS:

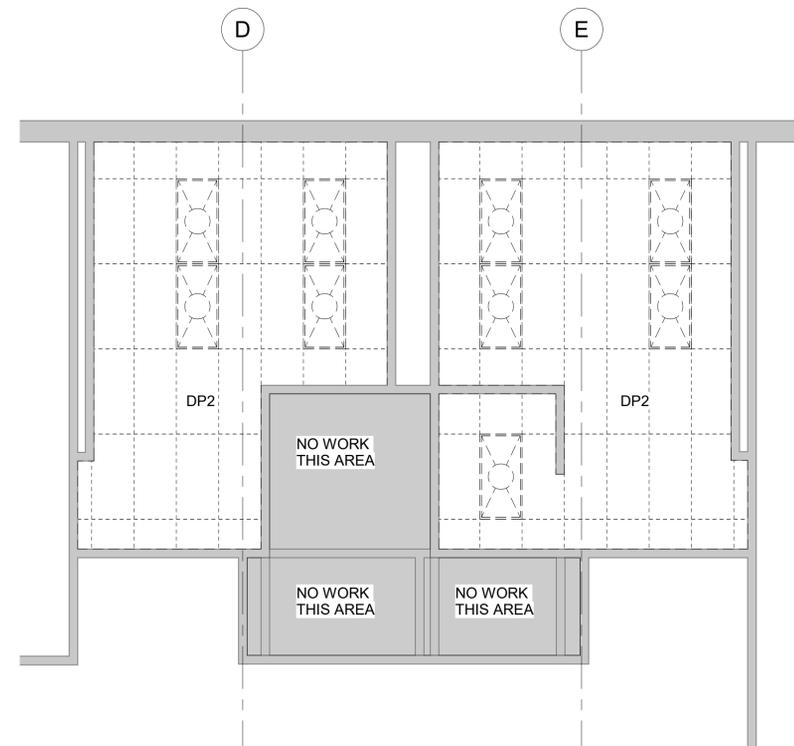
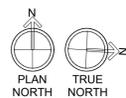
1. Question: It seems the substitution form that is referenced in this package is for after the bidding phase?
 - a. **Answer: A substitution request form is not required for substitutions proposed during the bidding phase. See A701, section 3.3 for substitution procedures during the bidding phase. The CSI Form 13.1A listed in spec section 012500 – Substitution Procedures is for substitutions proposed during construction.**
2. Question: Is there a door hardware schedule?
 - a. **Answer: See revised sheet A402 attached for door hardware allowance.**
3. Question: What are the specs on the doors to be matched?
 - a. **Answer: Existing doors are solid core wood veneer doors, contractor to match size and finish of existing doors onsite.**
4. Question: A millwork company would like to participate but cannot do so due to the AWI requirements. Can these requirements be waived in order to open up the opportunity for more shops?
 - a. **Answer: No.**
5. Question: Who will be responsible for pulling permits and inspections?
 - a. **Answer: This project is under USC's certification granted by OSE. OSE is the authority having jurisdiction for state projects. No city building permit is required. Bidders must have appropriate LLR contractor's license and contractor's permits allowing them to work within city limits.**
6. Question: There seems to be no ceiling tile or grid spec in the drawings...need the information regarding the new tile and grid to quote.
 - a. **Answer: See section 095113 – Acoustical Panel Ceilings in the project manual.**
7. Question: What is the plan for the water heater in the storage closet as far as where to move it and moving lines for it?
 - a. **Answer: See sheets AD102, A402, PD101, P201, ED01, and E100, dated 01/29/2021, revised 02/18/2021, attached to this addendum for relocation of existing water heater in Janitor's Closet 114.**
8. Question: In all the toilets, the flush valves are roughed in twice as high as standard. Do you want them lowered to meet manufacturer's recommended height?
 - a. **Answer: Yes.**

END OF ADDENDUM NO. 2

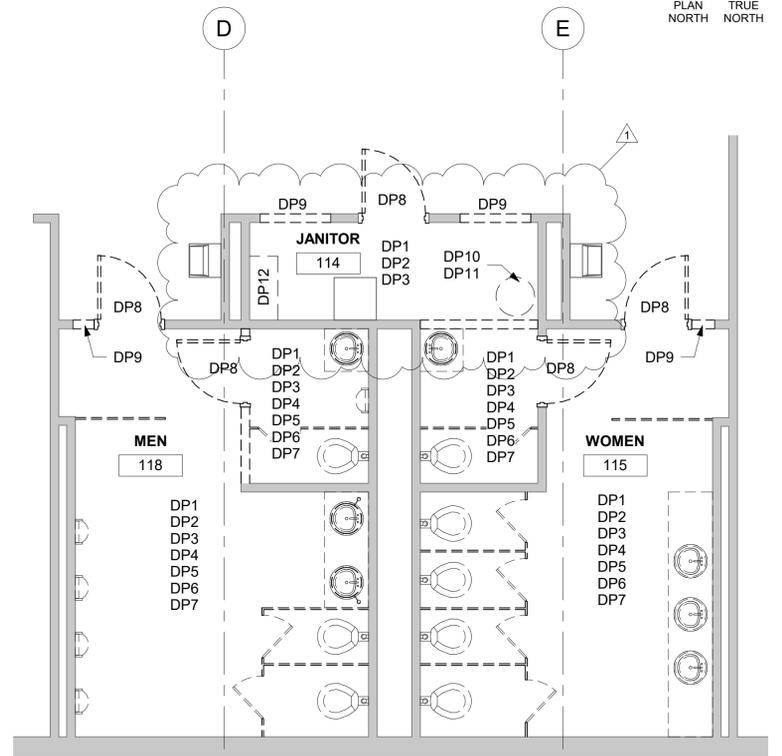
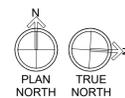
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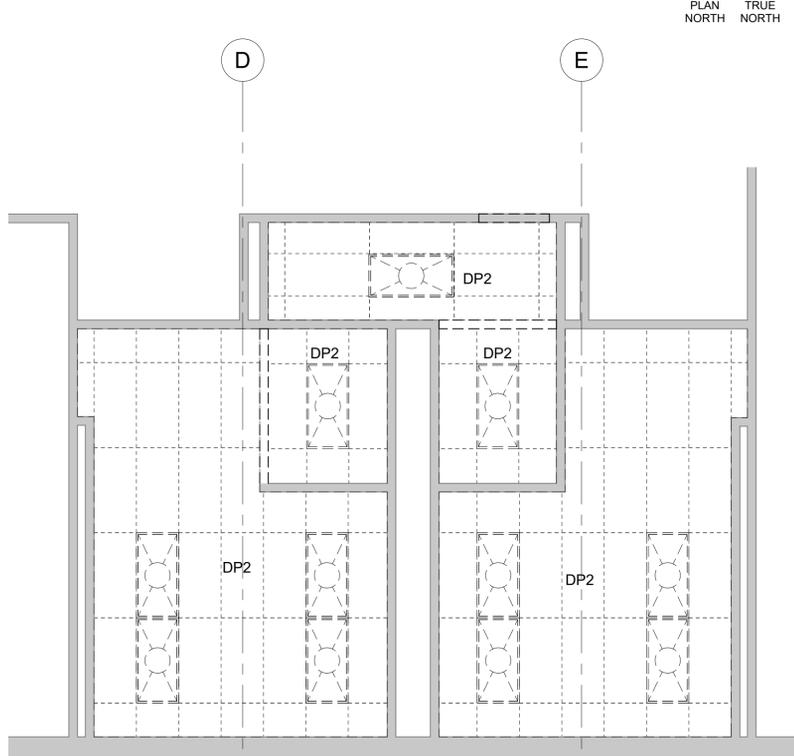
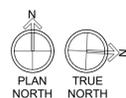
1 FIRST FLOOR - TOILETS 104 and 105 DEMOLITION
1/4" = 1'-0"



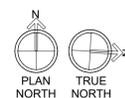
2 FIRST FLOOR - TOILETS 104 and 105 DEMOLITION
1/4" = 1'-0"



3 FIRST FLOOR - TOILETS 115 and 118 DEMOLITION
1/4" = 1'-0"



4 FIRST FLOOR - TOILETS 115 and 118 DEMOLITION
1/4" = 1'-0"



GENERAL DEMOLITION NOTES

- EXISTING CONDITIONS AND DEMOLITION NOTES BASED ON EXISTING DRAWINGS BUT NOT ON AS BUILTS. GENERAL CONTRACTOR TO FIELD VERIFY CONDITIONS PRIOR TO START OF CONSTRUCTION. IF GENERAL CONTRACTOR DISCOVERS EXISTING CONDITIONS DIFFER FROM THOSE SHOWN, NOTIFY OWNER OR ARCHITECT IMMEDIATELY.
- GENERAL CONTRACTOR TO PROTECT ALL ADJACENT SURFACES TO REMAIN FROM DAMAGE DURING DEMOLITION. GENERAL CONTRACTOR TO REPAIR/REPLACE ANY ADJACENT SURFACES DAMAGED DURING CONSTRUCTION TO MATCH ORIGINAL CONDITIONS.

SELECTIVE DEMOLITION

- DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION AND AS INDICATED. USE METHODS REQUIRED TO COMPLETE THE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS.
- PROCEED WITH SELECTIVE DEMOLITION SYSTEMATICALLY, FROM HIGHER TO LOWER LEVEL.
- DISPOSE OF DEMOLISHED ITEMS AND MATERIALS PROMPTLY. EXCEPT FOR ITEMS OR MATERIALS INDICATED TO BE REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED TO REMAIN, REMOVE DEMOLISHED MATERIALS FROM SITE AND LEGALLY DISPOSE OF THEM IN AN EPA-APPROVED LANDFILL. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.
- DO NOT USE CUTTING TORCHES UNTIL WORK AREA IS CLEARED OF FLAMMABLE MATERIALS. MAINTAIN PORTABLE FIRE SUPPRESSION DEVICES DURING FLAME-CUTTING OPERATIONS.
- MAINTAIN ADEQUATE VENTILATION WHEN USING CUTTING TORCHES.
- REMOVE DECAYED, VERMIN-INFESTED, OR OTHERWISE DANGEROUS OR UNSUITABLE MATERIALS AND PROMPTLY DISPOSE OF OFF-SITE.
- LOCATE SELECTIVE DEMOLITION EQUIPMENT AND REMOVE DEBRIS AND MATERIALS SO AS NOT TO IMPOSE EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS OR FRAMING.
- ALL SURFACES TO BE DEMOLISHED AND PREPPED FOR NEW. TO BE PREPPED ACCORDING TO NEW FINISHES MANUFACTURERS WRITTEN INSTRUCTIONS.

UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

- EXISTING SERVICES/SYSTEMS: MAINTAIN EXISTING SERVICES AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS.
- SERVICES/SYSTEM REQUIREMENTS: LOCATE, IDENTIFY, DISCONNECT AND SEAL OR CAP OFF INDICATED UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS SERVING AREAS TO BE SELECTIVELY DEMOLISHED.

MASONRY

- DEMOLISH IN SMALL SECTIONS. CUT MASONRY AT JUNCTURES WITH CONSTRUCTION TO REMAIN, USING POWER-DRIVEN SAW, THEN REMOVE MASONRY BETWEEN SAW CUTS.

CLEANING

- 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.

TEMPORARY SHORING

- PROVIDE AND MAINTAIN SHORING, BRACING AND STRUCTURAL SUPPORTS AS REQUIRED TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF CONSTRUCTION AND FINISHES TO REMAIN, AND TO PREVENT UNEXPECTED OR UNCONTROLLED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED. STRENGTHEN OR ADD NEW SUPPORTS WHEN REQUIRED DURING PROGRESS OF SELECTIVE DEMOLITION.

DEMOLITION PLAN NOTES

- DP1. REMOVE EXISTING CERAMIC FLOOR TILE COMPLETE. PREPARE SUBFLOOR FOR SPECIFIED FLOOR FINISH.
- DP2. REMOVE EXISTING CEILING SYSTEM COMPLETE INCLUDING ACOUSTICAL CEILING TILE, GRID, GRILLS, AND LIGHTS
- DP3. REMOVE EXISTING CERAMIC BASE COMPLETE. PREPARE WALL FOR SPECIFIED FINISHES.
- DP4. REMOVE EXISTING TOILET ACCESSORIES. DELIVER TO OWNER.
- DP5. REMOVE EXISTING TOILET PARTITIONS COMPLETE. PATCH AND REPAIR WALLS FOR TOILET PARTITIONS.
- DP6. REMOVE EXISTING SINKS AND VANITIES COMPLETE. PATCH AND REPAIR WALLS FOR SINKS AND VANITIES.
- DP7. REMOVE EXISTING TOILETS AND URINALS COMPLETE.
- DP8. REMOVE EXISTING DOOR AND FRAME COMPLETE.
- DP9. REMOVE EXISTING WALL AS REQUIRED FOR INSTALLATION OF NEW DOOR AND FRAME TO MATCH EXISTING DRAWINGS.
- DP10. REMOVE EXISTING WATER HEATER AND SALVAGE FOR REINSTALLATION IN NEW LOCATION. SEE PLUMBING DRAWINGS.
- DP11. REMOVE AND CAP FLOOR DRAIN. SEE PLUMBING DRAWINGS.
- DP12. REMOVE EXISTING SHELF AND SALVAGE FOR REINSTALLATION.

1

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U of SC
Aiken



CLIENT NAME
UNIVERSITY OF SOUTH CAROLINA AIKEN
PROJECT NAME
AHSS BLDG FIRST FLOOR
RESTROOM RENOVATIONS
PROJECT # H29-1364-50003418
LOCATION
AIKEN, SOUTH CAROLINA

ISSUED FOR BIDDING, JANUARY 29, 2021

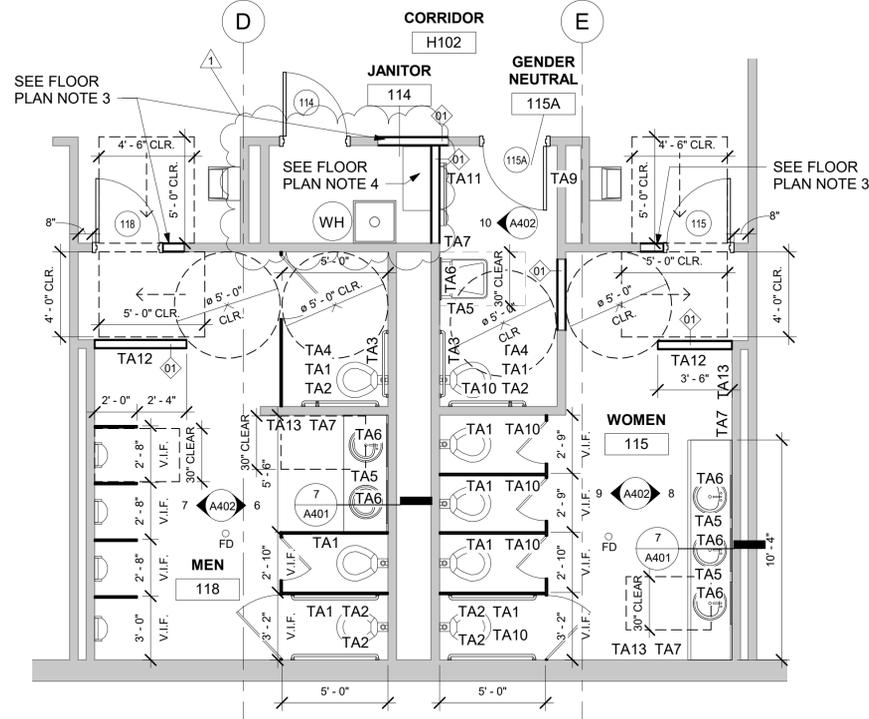
REVISIONS

NO.	DATE	DESCRIPTION
1	02/18/21	Revision 1

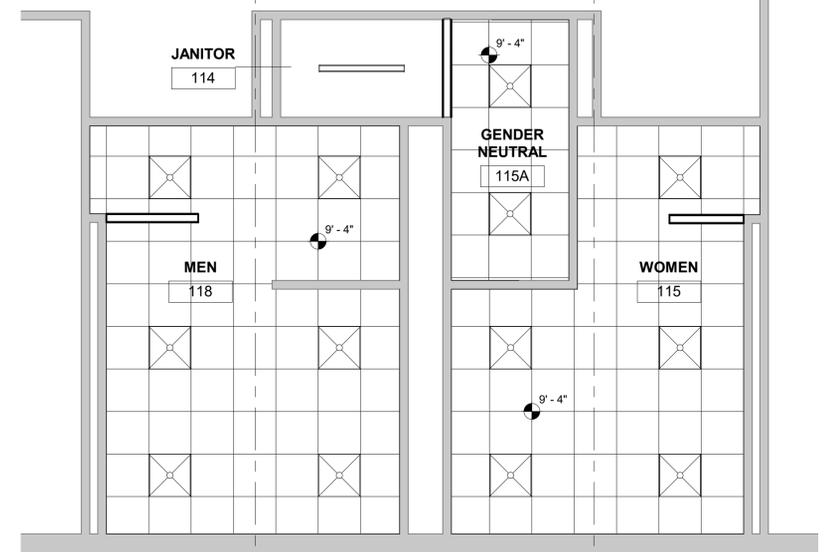
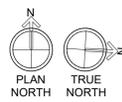
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SHEET NUMBER
AD102
SHEET NAME
ENLARGED DEMOLITION
PLANS
DATE **01/29/2021**

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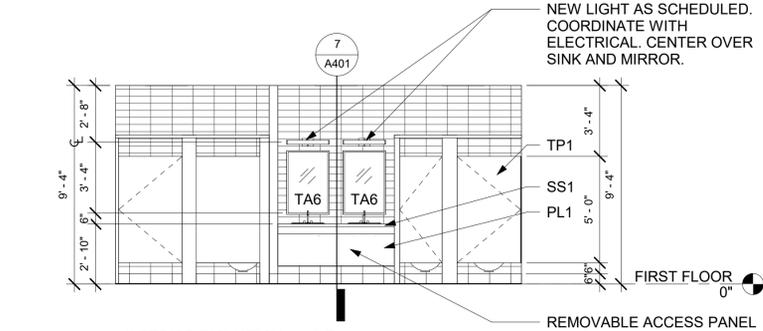
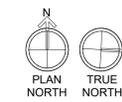
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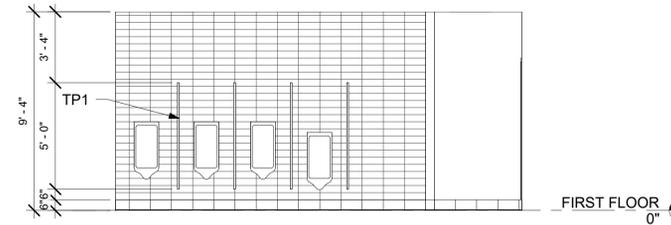
1 FIRST FLOOR - TOILETS 115 and 118
1/4" = 1'-0"



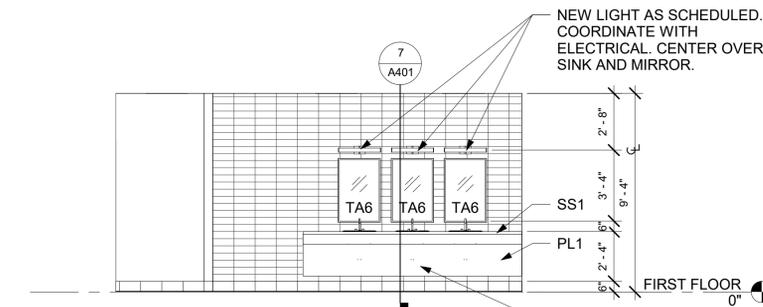
2 FIRST FLOOR - TOILETS 115 and 118
1/4" = 1'-0"



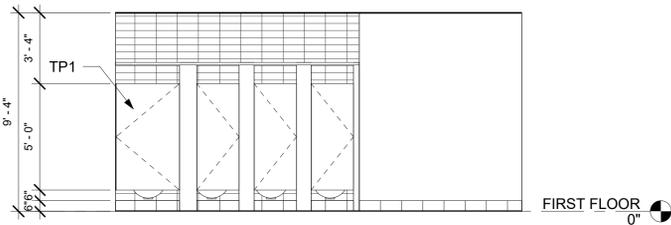
6 INTERIOR ELEVATION - 118 E
1/4" = 1'-0"



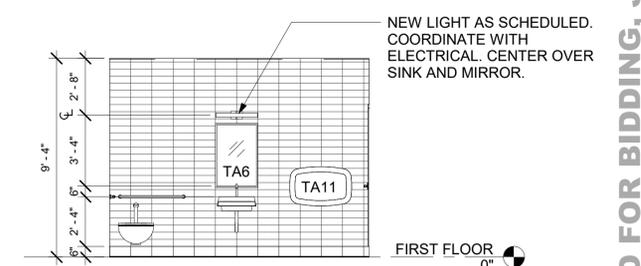
7 INTERIOR ELEVATION - 118 W
1/4" = 1'-0"



8 INTERIOR ELEVATION - 115 E
1/4" = 1'-0"



9 INTERIOR ELEVATION - 115 W
1/4" = 1'-0"



10 INTERIOR ELEVATION - 115A
1/4" = 1'-0"

TOILET ACCESSORIES

- TA1 TOILET TISSUE DISPENSER
- TA2 GRAB BAR 42"
- TA3 GRAB BAR 36"
- TA4 GRAB BAR 18" VERTICAL
- TA5 SOAP DISPENSER
- TA6 MIRROR
- TA7 PAPER TOWEL DISPENSER/DISPOSAL
- TA8 NOT USED
- TA9 COAT HOOK
- TA10 SANITARY NAPKIN DISPOSAL
- TA11 BABY CHANGING STATION
- TA12 FULL LENGTH MIRROR
- TA13 ELECTRIC HAND DRYER

FLOOR PLAN NOTES

1. CONTRACTOR VERIFY EXISTING FLOOR DRAIN LOCATIONS AND COORDINATE WITH TILE SPECIFICATIONS AND INSTALLATION PER MANUFACTURERS WRITTEN INSTRUCTIONS. TILE INSTALLATIONS TO MEET NTMA GUIDELINES.
2. COORDINATE PLUMBING FIXTURES WITH PLUMBING DRAWINGS.
3. PATCH AND REPAIR WALLS WHERE DOORS AND FRAMES WERE DEMOED. SEE FINISH PLANS FOR EXTENT OF NEW PAINT AND BASE IN CORRIDORS.
4. REINSTALL OWNER'S METAL SHELF.

CEILING PLAN NOTES

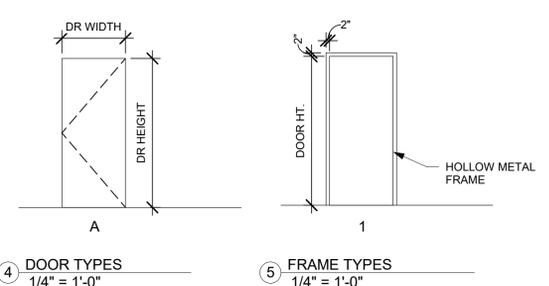
1. COORDINATE MECHANICAL GRILLE LOCATIONS WITH MECHANICAL DRAWINGS.
2. COORDINATE LIGHT FIXTURES WITH ELECTRICAL DRAWINGS.

TOILET ACCESSORY NOTES

1. GC COORD. ALL ACCESSORIES WITH OWNER.
2. INSTALL ALL TOILET ACCESSORIES PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND PER ADA AND ANSI A117.1 GUIDELINES AS REQUIRED.
3. GC FURNISH AND INSTALL BLOCKING AS REQUIRED FOR ALL TOILET ACCESSORIES.
4. INSTALL ADA SIGNAGE PER ADA AND ANSI A117.1
5. COORDINATE INSTALLATION OF HAND DRYERS AND LIGHT FIXTURES WITH ELECTRICAL DRAWINGS.

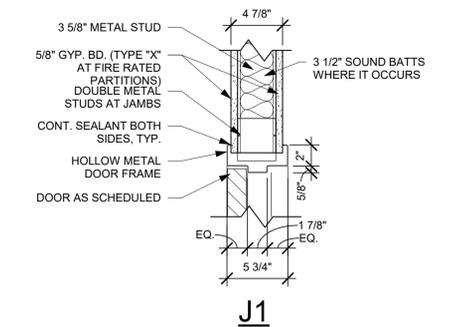
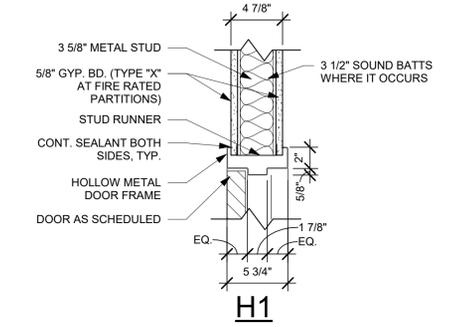
GENERAL DOOR NOTES

1. ALL DOORS TO BE LOCATED 6" FROM ADJACENT PERPENDICULAR WALL TO INSIDE FACE OF FRAME, UNLESS NOTED OTHERWISE. THIS DOES NOT APPLY TO STOREFRONT ITEMS.
2. HEAD, JAMB AND SILL DETAILS SHOWN FOR REFERENCE ONLY. COORDINATE WITH MANUFACTURER'S REQUIREMENTS, STRUCTURAL DRAWINGS, AND PARTITION TYPES.
3. ALL WOOD DOORS TO BE FLUSH. WOOD DOORS TO BE 5-PLY PREMIUM GRADE, BONDED CORE IN ACCORDANCE WITH THE WINDOW AND DOOR MANUFACTURERS ASSOCIATION ARCHITECTURAL WOOD FLUSH DOORS.
4. STEEL DOORS AND FRAMES: FABRICATE FRAMES OF MINIMUM 16 GAUGE COLD-ROLLED STEEL, DOUBLE RABBIT PROFILE, MITERED CORNERS. PROVIDE FULLY WELDED FRAMES AT ALL H.M. DOORS.
5. COMPLY WITH NFPA 80 FOR FIRE RATED ASSEMBLIES.
6. DOOR HARDWARE ALLOWANCE: \$850 PER LEAF. MATCH EXISTING HARDWARE AND COORDINATE WITH OWNER. CONTRACTOR INCLUDE DELIVERY AND INSTALLATION OF DOOR HARDWARE IN BASE BID.



4 DOOR TYPES
1/4" = 1'-0"

5 FRAME TYPES
1/4" = 1'-0"



3 01 - HEAD AND JAMB DETAIL
1 1/2" = 1'-0"

NUMBER	SIZE		DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FIRE RATING	FRAME			HEAD	JAMB	SILL	COMMENTS
	WIDTH	HEIGHT					TYPE	MATERIAL	FINISH				
104	3'-0"	7'-0"	A	WOOD	MATCH EXIST.	20 MIN.	1	HM	P2	1	1	--	NEW DOOR AND FRAME TO MATCH EXISTING.
104A	3'-0"	7'-0"	A	WOOD	MATCH EXIST.	--	1	HM	P2	1	1	--	NEW DOOR AND FRAME TO MATCH EXISTING.
105	3'-0"	7'-0"	A	WOOD	MATCH EXIST.	20 MIN.	1	HM	P2	1	1	--	NEW DOOR AND FRAME TO MATCH EXISTING.
114	3'-0"	7'-0"	A	WOOD	MATCH EXIST.	20 MIN.	1	HM	P2	1	1	--	NEW DOOR AND FRAME TO MATCH EXISTING.
115	3'-0"	7'-0"	A	WOOD	MATCH EXIST.	20 MIN.	1	HM	P2	1	1	--	NEW DOOR AND FRAME TO MATCH EXISTING.
115A	3'-0"	7'-0"	A	WOOD	MATCH EXIST.	20 MIN.	1	HM	P2	1	1	--	NEW DOOR AND FRAME TO MATCH EXISTING.
118	3'-0"	7'-0"	A	WOOD	MATCH EXIST.	20 MIN.	1	HM	P2	1	1	--	NEW DOOR AND FRAME TO MATCH EXISTING.

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STATE OF SOUTH CAROLINA REGISTERED ARCHITECTS

STUDIO 2LR INC
Columbia, SC
No. 100136

STATE OF SOUTH CAROLINA REGISTERED ARCHITECT

WILLIAM WHEELER
COLUMBIA, SC
4654
1/29/2021

CLIENT NAME
UNIVERSITY OF SOUTH CAROLINA AIKEN

PROJECT NAME
AHSS BLDG FIRST FLOOR RESTROOM RENOVATIONS

PROJECT # H29-1364-50003418

LOCATION
AIKEN, SOUTH CAROLINA

ISSUED FOR BIDDING, JANUARY 29, 2021

REVISIONS

NO.	DATE	DESCRIPTION
1	02/18/21	Revision 1

PROJECT NUMBER **20084**

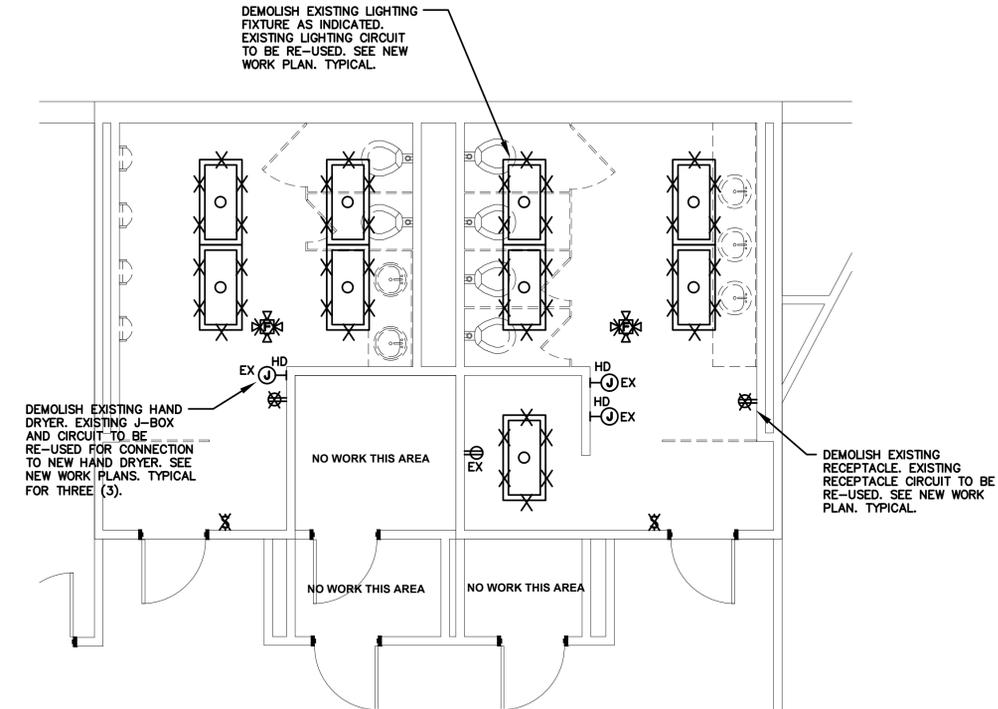
SHEET NUMBER **A402**

SHEET NAME
ENLARGED PLANS RMS
115 and 118, DOOR SCHED

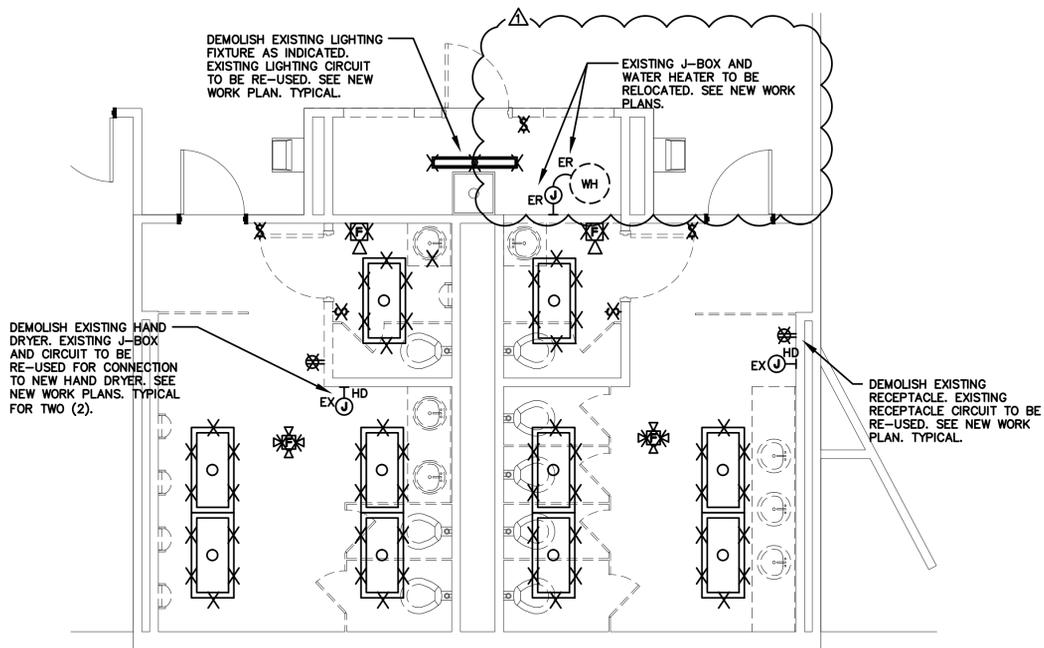
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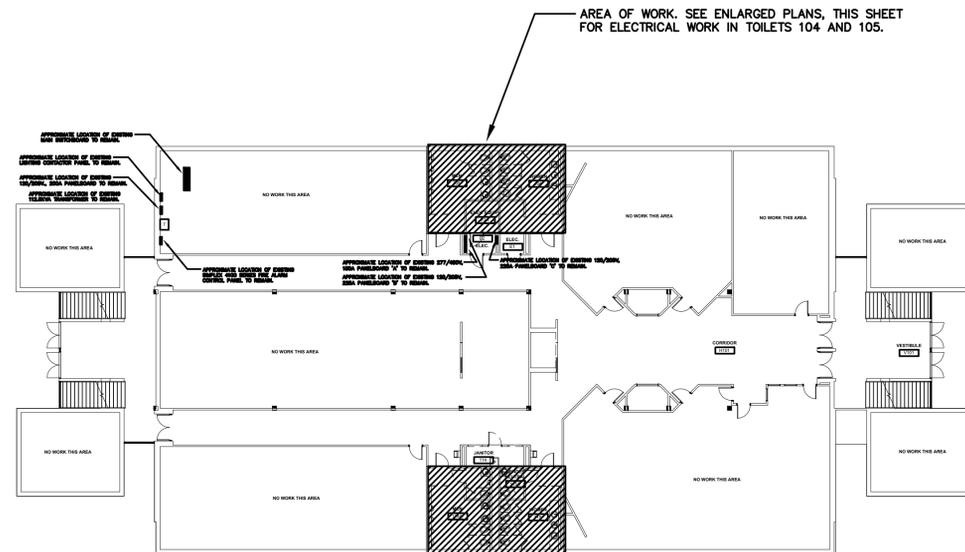
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ELECTRICAL DEMOLITION PLAN - TOILETS 104 AND 105
SCALE: 1/4" = 1'-0"



ELECTRICAL DEMOLITION PLAN - TOILETS 115 AND 118
SCALE: 1/4" = 1'-0"



FIRST FLOOR KEY PLAN
SCALE: 1" = 20'-0"

STUDIO 2LR

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1/21/2021



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RESTROOM RENOVATIONS
PROJECT # H29-1364-50003418
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REVISIONS		
NO.	DATE	DESCRIPTION
1	02/18/21	Revision 1

PROJECT NUMBER **20084**
SHEET NUMBER
ED01
SHEET NAME
**ELECTRICAL
DEMOLITION PLANS**
DATE **01/29/2021**

GWA-19-3392.01

GWA inc.
Electrical Engineers

Midlands Office - Main
168 Laurelhurst Avenue
Columbia, SC 29210
(803)252-6919
Fax (803)799-5494
gwa@gwainc.net
http://www.gwainc.net

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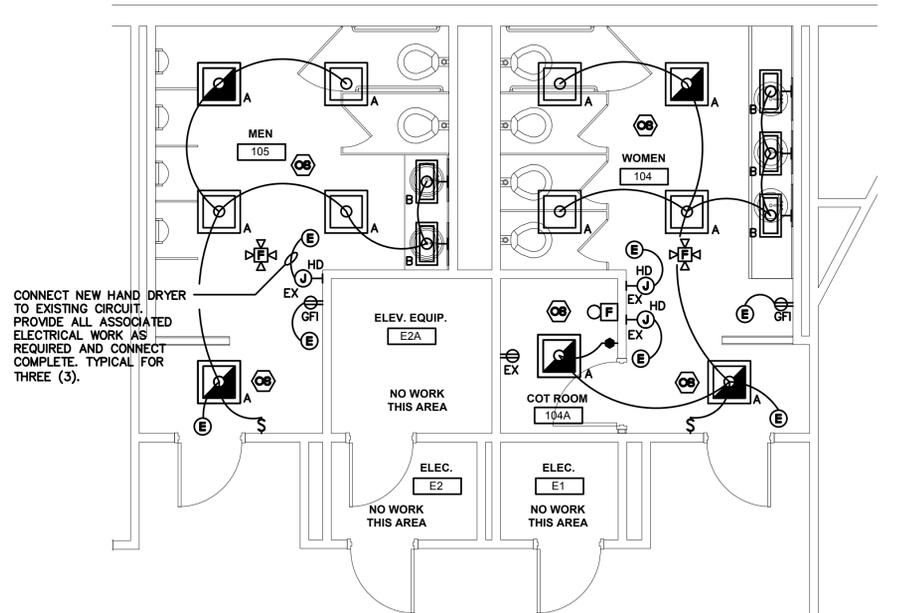
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C

D

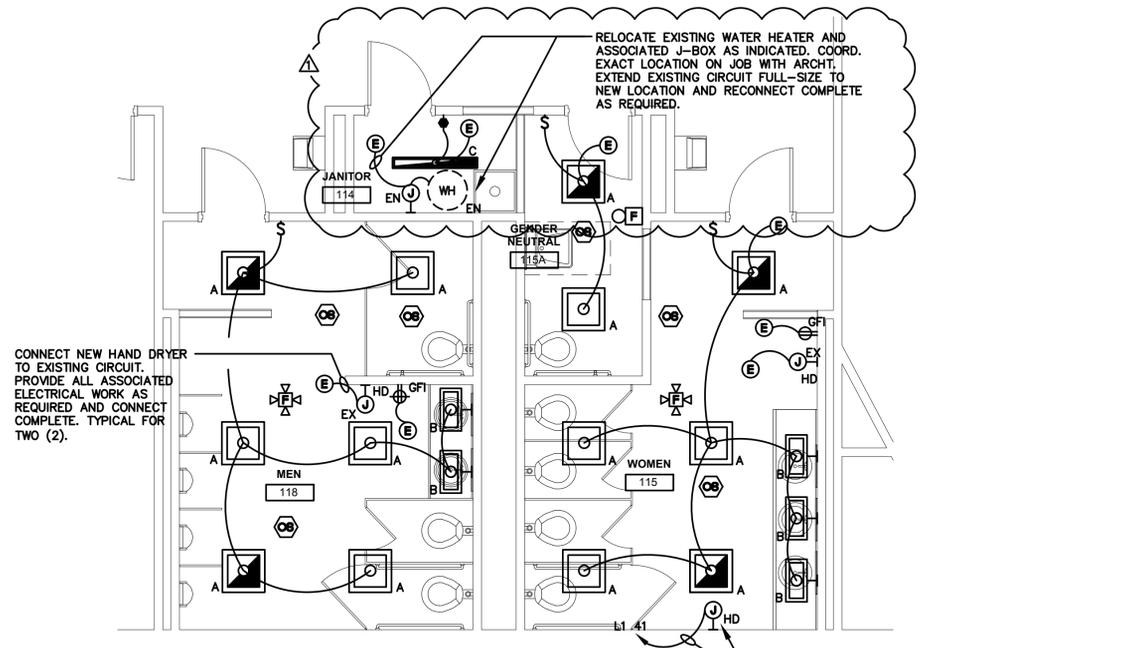
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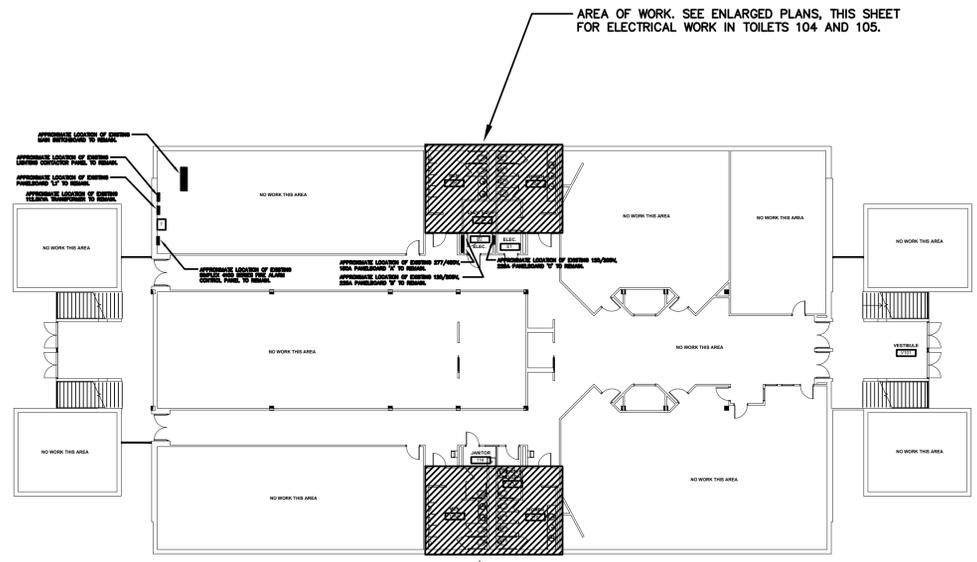
ELECTRICAL PLAN - TOILETS 104 AND 105 - NEW WORK

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



ELECTRICAL PLAN - TOILETS 115 AND 118 - NEW WORK

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



FIRST FLOOR KEY PLAN

SCALE: 1" = 20'-0"

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UNIVERSITY OF SOUTH CAROLINA AIKEN
PROJECT NAME
AHSS BLDG FIRST FLOOR
RESTROOM RENOVATIONS
PROJECT # H29-1364-50003418
LOCATION
AIKEN, SOUTH CAROLINA

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1	02/18/21	Revision 1

PROJECT NUMBER **20084**
SHEET NUMBER **E100**
SHEET NAME **ELECTRICAL PLANS - NEW WORK**
DATE **01/29/2021**

GWA-19-3392.01

GWA inc.
Electrical Engineers

Midlands Office - Main
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Columbia, SC 29210
(803)252-6919
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http://www.gwainc.net

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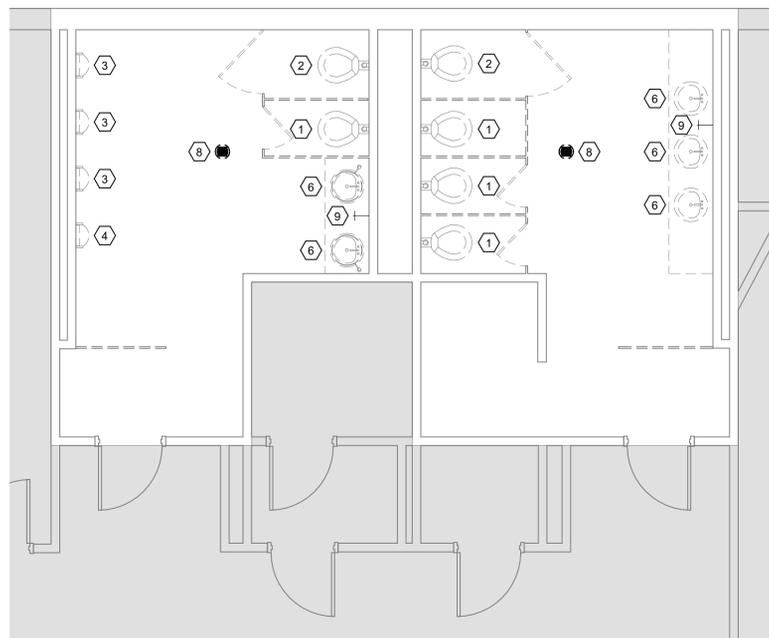
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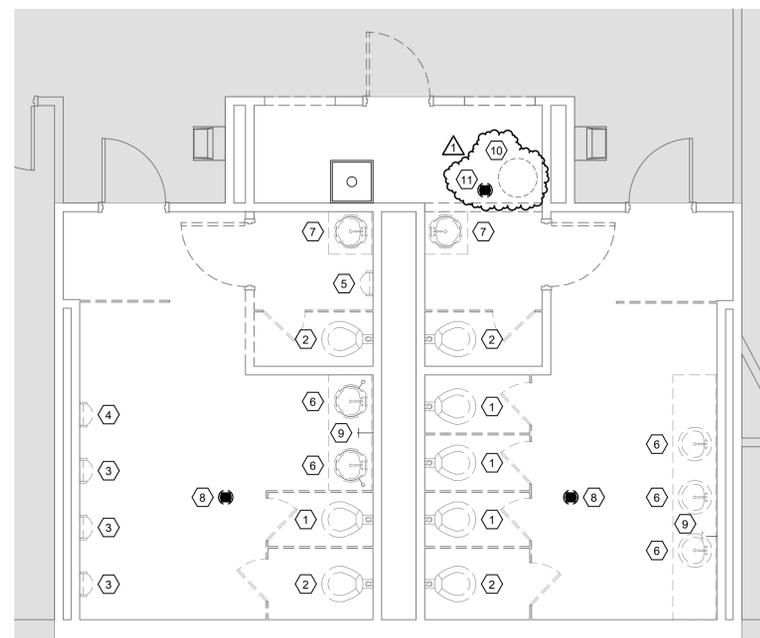
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1 FIRST FLOOR - TOILETS 104 & 105 DEMOLITION
PD101 1/4" = 1'-0"



2 FIRST FLOOR - TOILETS 115 & 118 DEMOLITION
PD101 1/4" = 1'-0"

DEMOLITION NOTES	
1	EXISTING WATER CLOSET TO BE REMOVED COMPLETE. EXISTING CHAIR CARRIER, SUPPLY, WASTE, AND VENT LINES TO BE REUSED FOR NEW FIXTURE.
2	EXISTING WATER CLOSET TO BE REMOVED COMPLETE INCLUDING CHAIR CARRIER. EXISTING WASTE, VENT, AND SUPPLY LINES TO BE REUSED FOR NEW FIXTURE. CAP EXISTING PIPING AS REQUIRED.
3	EXISTING URINAL TO BE REMOVED COMPLETE. EXISTING CHAIR CARRIER, SUPPLY, WASTE, AND VENT LINES TO BE REUSED FOR NEW FIXTURE.
4	EXISTING URINAL TO BE REMOVED COMPLETE INCLUDING CHAIR CARRIER. EXISTING WASTE, VENT, AND SUPPLY LINES TO BE REUSED FOR NEW FIXTURE. CAP EXISTING PIPING AS REQUIRED.
5	EXISTING URINAL TO BE REMOVED COMPLETE. CAP EXISTING PIPING AS REQUIRED.
6	EXISTING LAVATORY TO BE REMOVED COMPLETE. EXISTING WASTE, VENT, AND SUPPLY LINES TO BE REUSED FOR NEW FIXTURE.
7	EXISTING LAVATORY TO BE REMOVED COMPLETE. CAP EXISTING PIPING AS REQUIRED.
8	EXISTING FLOOR DRAIN TO BE REMOVED COMPLETE. EXISTING WASTE PIPING TO BE REUSED FOR NEW FLOOR DRAIN.
9	EXISTING HOSE BIB TO REMAIN.
10	EXISTING WATER HEATER TO BE DISCONNECTED AND RELOCATED AS INDICATED ON RENOVATION PLAN.
11	EXISTING FLOOR DRAIN TO BE REMOVED AND WASTE LINE CAPPED BELOW SLAB.

STUDIO 2LR

STUDIO 2LR, INC.
2428 MAIN STREET
COLUMBIA, SC 29201
P 803.293.6602
STUDIO2LR.COM

UofSC
Aiken



ISSUED FOR BIDDING, JANUARY 29, 2021

CLIENT NAME	UNIVERSITY OF SOUTH CAROLINA AIKEN
PROJECT NAME	AHSS BLDG FIRST FLOOR RESTROOM RENOVATIONS
PROJECT #	H29-1364 50003418
LOCATION	AIKEN, SOUTH CAROLINA

REVISIONS		
NO.	DATE	DESCRIPTION
1	02.18.21	ADDENDUM #2

PROJECT NUMBER	20084
SHEET NUMBER	PD101
SHEET NAME	DEMOLITION PLANS
DATE	01/29/2021

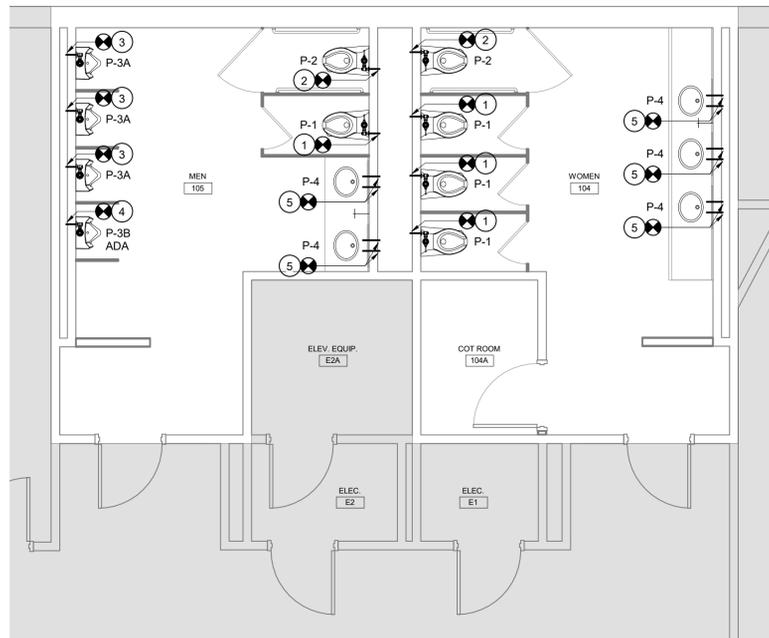
Swygert & Associates
CONSULTING ENGINEERS
DBA Swygert & Assoc., Ltd. Telephone: (803) 791-9300
Post Office Box 11680 Facsimile: (803) 791-0830
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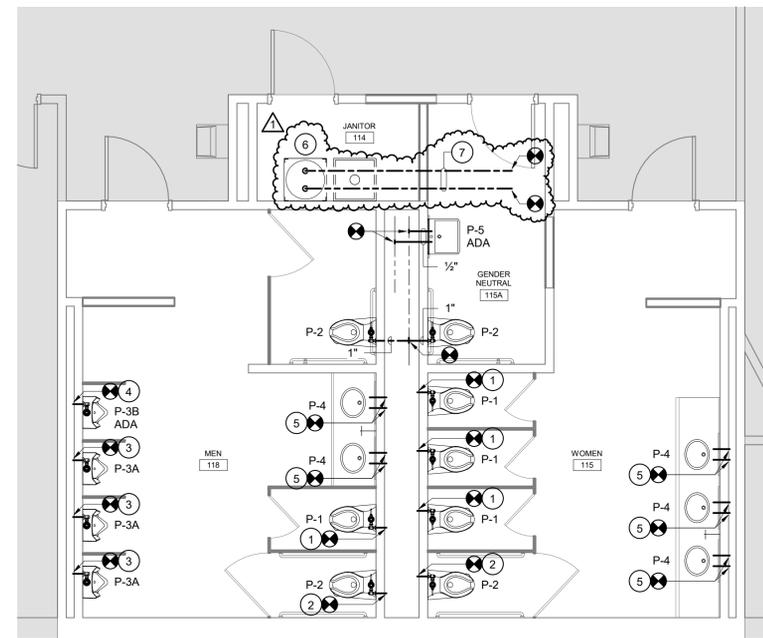
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1 FIRST FLOOR - TOILETS 104 & 105 RENOVATION
P201 1/4" = 1'-0"



2 FIRST FLOOR - TOILETS 115 & 118 RENOVATION
P201 1/4" = 1'-0"

- NOTES TO SHEET**
- 1 RECONNECT TO EXISTING DOMESTIC WATER SUPPLY LINE SERVING REMOVED WATER CLOSET. TRANSITION AS REQUIRED.
 - 2 RECONNECT TO EXISTING DOMESTIC WATER SUPPLY LINE SERVING REMOVED WATER CLOSET. ADJUST FOR NEW HEIGHT OF FIXTURE AND TRANSITION AS REQUIRED.
 - 3 RECONNECT TO EXISTING DOMESTIC WATER SUPPLY LINE SERVING REMOVED URINAL. TRANSITION AS REQUIRED.
 - 4 RECONNECT TO EXISTING DOMESTIC WATER SUPPLY LINE SERVING REMOVED URINAL. ADJUST FOR NEW HEIGHT OF FIXTURE AND TRANSITION AS REQUIRED.
 - 5 RECONNECT TO EXISTING DOMESTIC HOT AND COLD WATER LINES SERVING REMOVED LAVATORY. TRANSITION AS REQUIRED.
 - 6 EXISTING WATER HEATER TO BE RELOCATED TO THIS LOCATION. SEE DETAIL.
 - 7 EXTEND 3/4" HOT AND COLD WATER LINES BACK TO EXISTING LOCATION ABOVE CEILING AND RECONNECT.

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ISSUED FOR BIDDING, JANUARY 29, 2021

CLIENT NAME	UNIVERSITY OF SOUTH CAROLINA AIKEN
PROJECT NAME	AHSS BLDG FIRST FLOOR RESTROOM RENOVATIONS
PROJECT #	H29-1364 50003418
LOCATION	AIKEN, SOUTH CAROLINA

REVISIONS		
NO.	DATE	DESCRIPTION
1	02.18.21	ADDENDUM #2

PROJECT NUMBER	20084
SHEET NUMBER	P201
SHEET NAME	RENOVATION PLANS - SUPPLY PIPING
DATE	01/29/2021

Swygart & Associates
CONSULTING ENGINEERS

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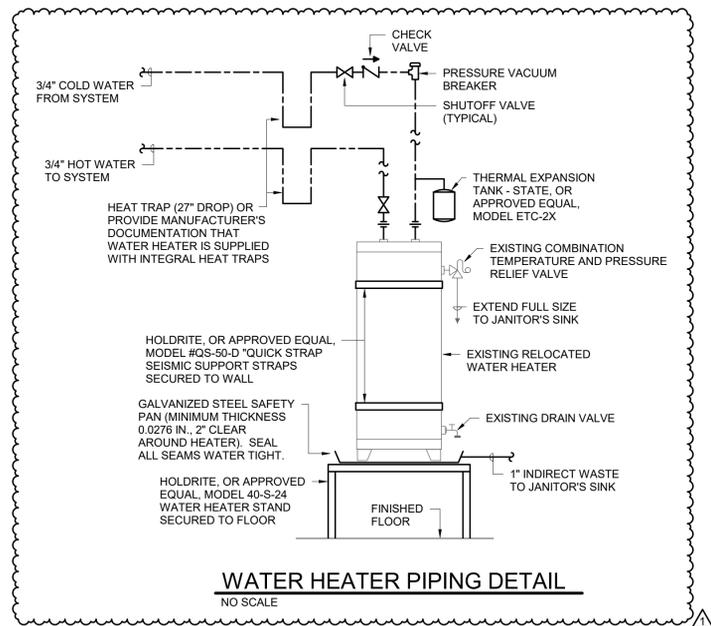
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PLUMBING FIXTURE SCHEDULE								
P. NO.	FIXTURE	MFG.	NAME	MFGS. NO.	SIZE	MIN. SUPPLY		REMARKS
						CW	HW	
P-1	WATER CLOSET	KOHLER	KINGSTON	K-4325	---	1"	--	WITH SLOAN MODEL G2-8111 BATTERY POWERED SENSOR FLUSH VALVE, BENEKE 527 SEAT, AND BOLT CAPS. RECONNECT TO EXISTING CHAIR CARRIER.
P-2	WATER CLOSET	KOHLER	KINGSTON	K-4325	---	1"	--	WITH SLOAN MODEL G2-8111 BATTERY POWERED SENSOR FLUSH VALVE, BENEKE 527 SEAT, CHAIR CARRIER, AND BOLT CAPS.
P-3A	URINAL	KOHLER	BARDON	K-4991-ET	---	3/4"	--	WITH SLOAN MODEL G2-8186 BATTERY POWERED SENSOR FLUSH VALVE. RECONNECT TO EXISTING CHAIR CARRIER.
P-3B	URINAL	KOHLER	BARDON	K-4991-ET	---	3/4"	--	WITH SLOAN MODEL G2-8186 BATTERY POWERED SENSOR FLUSH VALVE AND CHAIR CARRIER.
P-4	LAVATORY	KOHLER	CAXTON	K-2210	17"x14"	3/8"	3/8"	UNDERCOUNTER MOUNTED WITH DELTA MODEL 590LF-HGMHDF SENSOR FAUCET, WATTS SERIES LFUSG-B ASSE 1070 APPROVED MIXING VALVE, MCGUIRE 155 GRID DRAIN, MCGUIRE H165 3/8" CAST BRASS SUPPLIES WITH STOPS, AND MCGUIRE 8872 1-1/4" P-TRAP.
P-5	LAVATORY	KOHLER	HUDSON	K-2868	20"x18"	3/8"	3/8"	WITH DELTA MODEL 590LF-HGMHDF SENSOR FAUCET, WATTS SERIES LFUSG-B ASSE 1070 APPROVED MIXING VALVE, MCGUIRE 155 GRID DRAIN, MCGUIRE H165 3/8" CAST BRASS SUPPLIES WITH STOPS, AND MCGUIRE 8872 1-1/4" P-TRAP.
FD	FLOOR DRAIN	ZURN	---	ZN-415-S	---	--	--	WITH 5"x5" NICKLE BRONZE STRAINER, P-TRAP, AND PROSET, OR APPROVED EQUAL, TRAP GUARD.

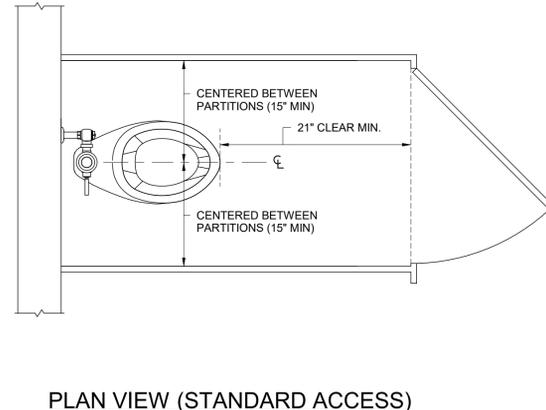
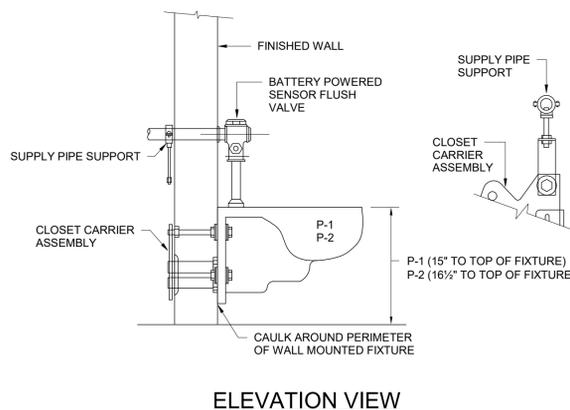
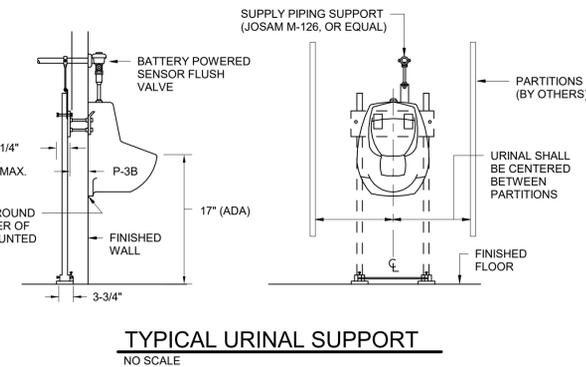
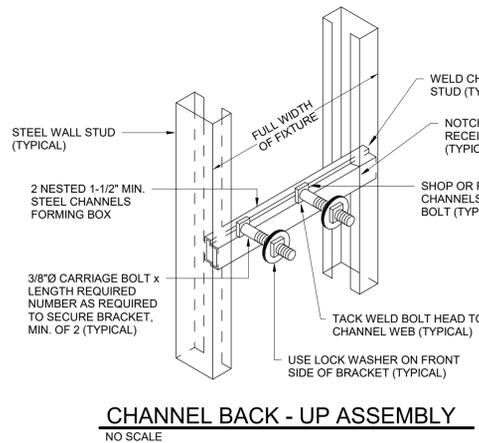
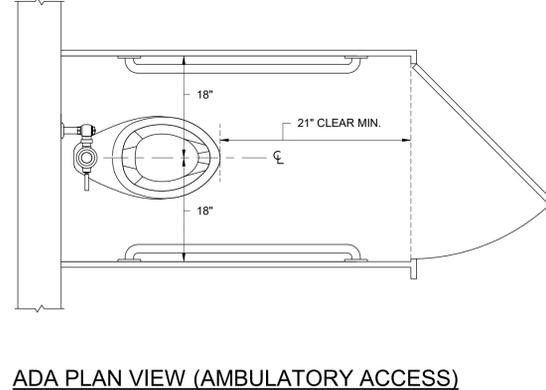
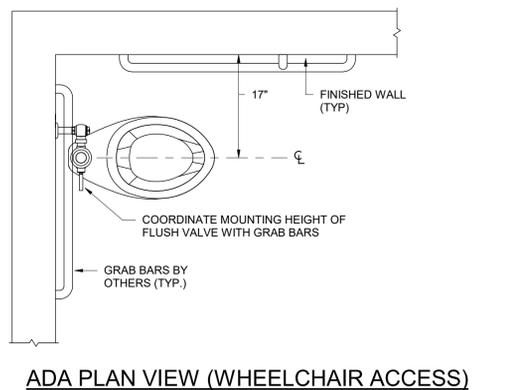
NOTE: SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF ALL WALL MOUNTED FIXTURES.

- GENERAL NOTES**
- ALL WORK SHALL BE PERFORMED ACCORDING TO ALL LOCAL, STATE, NATIONAL CODES, AND THE 2018 INTERNATIONAL PLUMBING CODE.
 - DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS, FIXTURE LOCATIONS, ETC.
 - EXCEPT WHERE PIPE SPACE IS PROVIDED OR UNLESS NOTED OTHERWISE, ALL SUPPLY, WASTE AND VENT RISERS SHALL BE RUN IN WALLS AND PARTITIONS.
 - COORDINATE CLOSELY WITH ALL WORK DONE UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID INTERFERENCE AND CONFLICT.
 - EXPOSED WASTE AND WATER PIPING UNDER LAVATORIES MARKED "ADA" SHALL BE INSULATED WITH HANDI LAV-GUARD KIT MODEL NUMBER 102 E-Z AS MANUFACTURED BY TRUEBRO, INC., OR APPROVED EQUAL.
 - ALL PIPING INSULATION SHALL BE RUN CONTINUOUSLY.

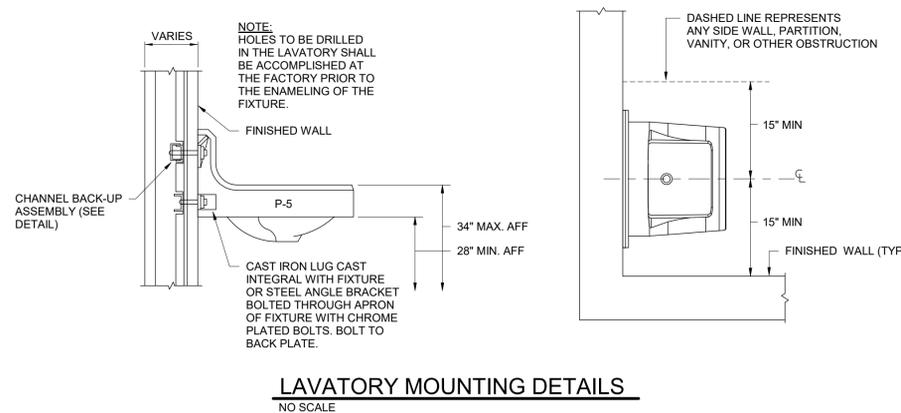
- SPECIFICATIONS**
- WASTE AND VENT PIPING:**
ALL WASTE AND VENT PIPING SHALL BE STANDARD WEIGHT HUBLESS CAST IRON WITH HEAVY DUTY CLAMPS BY HUSKY OR MISSION.
- SUPPLY PIPING:**
ALL SUPPLY PIPING SHALL BE TYPE L COPPER WITH LEAD FREE JOINTS. INSULATE ALL SUPPLY PIPING WITH 1" THICK FIBERGLASS INSULATION WITH ALL SERVICE JACKET.

LEGEND

SYMBOL	DESCRIPTION
	SANITARY WASTE LINE
	DOMESTIC COLD WATER LINE
	DOMESTIC HOT WATER LINE
	PIPE TURNS TO, AWAY
ADA	FIXTURE FOR USE ACCORDING TO THE AMERICANS WITH DISABILITIES ACT
	CONNECTION POINT OF NEW TO EXISTING



WATER CLOSET MOUNTING AND SUPPLY DETAILS
NO SCALE



STUDIO 2LR
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U of SC Aiken



CLIENT NAME
UNIVERSITY OF SOUTH CAROLINA AIKEN

PROJECT NAME
AHSS BLDG FIRST FLOOR RESTROOM RENOVATIONS

PROJECT # H29-1364 50003418

LOCATION
AIKEN, SOUTH CAROLINA

REVISIONS

NO.	DATE	DESCRIPTION
1	02.18.21	ADDENDUM #2

PROJECT NUMBER 20084

SHEET NUMBER
P301

SHEET NAME
DETAILS, NOTES, SCHEDULE, & LEGEND

DATE 01/29/2021

Swygart & Associates
CONSULTING ENGINEERS

DBA Swygart & Assoc., Ltd. Telephone: (803) 791-9300
Post Office Box 11680 Facsimile: (803) 791-0830
Columbia, S.C. 29211 mail@swygartassociates.com

ISSUED FOR BIDDING, JANUARY 29, 2021

PRODUCT FEATURES

- Premium quality construction and light output with your choice of on-trend finishes
- Mounts horizontally or vertically for added versatility
- Three length options including 13", 25" and 36"
- Fully dimmable LED lamping options to create the desired ambiance
- High quality, long-lasting integrated LED lamping included to save you time and money
- Protected by a 5-year warranty, please visit www.techlighting.com for details



LAMPING

Includes 24 watt, 1052 delivered lumen, 2700K LED module. Mounts horizontally or vertically. ADA compliant. Dimmable with low-voltage electronic dimmer.

Chrome



Chrome

ORDERING INFORMATION

700BCBAS	LENGTH (A)	FINISH	LAMP
	24 24"	C CHROME	-LED927 LED 90 CRI 2700K 120V
		S SATIN NICKEL	-LED927-277 LED 90 CRI 2700K 277V

700BCBAS _____

JOB NAME _____

NOTES _____

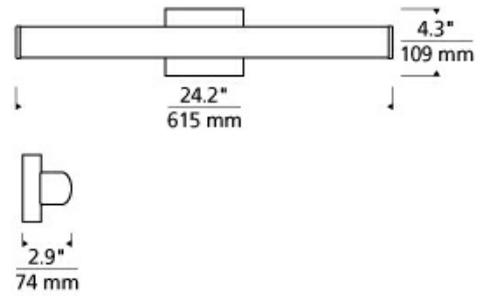


BASIS 24 BATH



SPECIFICATIONS

HARDWARE MATERIAL	Metal
SHADE MATERIAL	Glass
NET WEIGHT	2 lbs
HEIGHT	4.3in
WIDTH	3.4in
LENGTH	24.2in
WET LISTED	
DAMP LISTED	
DRY LISTED	
GENERAL LISTING	ETL Listed
INCLUDES	



LAMPING SPECIFICATIONS

	LED LAMP	INTEGRATED LED	NON LED	NO LAMP
DELIVERED LUMENS				
WATTS		20		
MAX WATTAGE PER BULB		24W		
INPUT VOLTAGE		120V 277V		
DIMMING TYPE*		ELV, TRIAC 0-10V		
CCT		2700K		
CRI		90 CRI		
LED LIFETIME				
L70		50000		
AVERAGE BULB HOURS		50000		
FIELD SERVICEABLE LED				
LAMP BASE		Integrated LED		
LAMP SHAPE		Integrated LED		
LAMP INCLUDED?		Y		
WARRANTY**		5 Years		

* Dimming information available at www.techlighting.com/Downloads#dimming

** Visit techlighting.com for specific warranty limitations and details.

T20 / T24 INFORMATION

	Integrated LED	Replacement LED Lamp	No Lamp *
This product can be used to comply with California Building Energy Efficiency Standards 2016 Title 24 Part 6.	Yes		
This product can be used to comply with California Appliance Efficiency Standards 2016 Title 20 and may be shipped to and sold in California.	N/A		

* If a light fixture or component does not include a lamp or light source, it is the responsibility of the customer to select a lamp that meets the T24 and T20 requirements.





Date: Feb 12, 2021

The Schneider Company
39A Pelham Davis Circle
Greenville SC 29615
Phone: (864) 675-9250
Fax: (864) 675-9640

Job Name
USCA H&SS RESTROOM RENOVATION
TSC21-46710
471 UNIVERISTY PKWY, AIKEN SC

Bid Date
Feb 25, 2021

Submittal Date
Feb 12, 2021

Architect:
STUDIO 2LR ARCHITECTURE
2428 MAIN STREE
Columbia SC 29201

Engineer:
GWA, INC
168 LAURELHURST AVENUE
COLUMBIA SC 29210



Transmittal

The Schneider Company
39A Pelham Davis Circle
Greenville SC 29615
Phone: (864) 675-9250
From: ANITA SMITH

Project USCA H&SS RESTROOM RENOVATION
Quote# TSC21-46710
Location 471 UNIVERISTY PKWY, AIKEN SC
To GWA, INC
168 LAURELHURST AVENUE
COLUMBIA SC 29210
Contact: DICKSON OBRIEN

ATTACHED WE ARE SENDING YOU 1 COPY OF THE FOLLOWING ITEM:

- | | | |
|-----------------------------------|--|--------|
| <input type="checkbox"/> Drawings | <input type="checkbox"/> Specifications | Other: |
| <input type="checkbox"/> Prints | <input type="checkbox"/> Information | |
| <input type="checkbox"/> Plans | <input checked="" type="checkbox"/> Submittals | |

THESE ARE TRANSMITTED FOR:

- | | | |
|--|---|---------------------------------|
| <input checked="" type="checkbox"/> Prior Approval | <input type="checkbox"/> Resubmittal for Approval | <input type="checkbox"/> Record |
| <input type="checkbox"/> Approval | <input type="checkbox"/> Corrections | Bids due on: |
| <input type="checkbox"/> Approval as Submitted | <input type="checkbox"/> Your Use | Other: |
| <input type="checkbox"/> Approval as Noted | <input type="checkbox"/> Review and Comment | |

Remarks:

SUBSTITUTION REQUEST FORM ATTACHED

Type	MFG	Part	
A	ELITE LIGHTING MANUFACTURE	22-OEVHP-LED-2000L/3000L/4000L-DIM10-MVOLT-35K/40K/50K-85	
B	OXYGEN LIGHTING	3-542-STD FINISH	NOT APPROVED
C	ELITE LIGHTING MANUFACTURE	4-OEC-LED-3000L/4000L/5000L-DIM10-MVOLT-35K/40K/50K-85	



Feb 12, 2021

DICKSON OBRIEN
GWA, INC
168 LAURELHURST AVENUE
COLUMBIA SC 29210

RE: USCA H&SS RESTROOM RENOVATION
471 UNIVERISTY PKWY, AIKEN SC

Dear DICKSON

SUBSTITUTION REQUEST FORM ATTACHED

Type	MFG	Part
A	ELITE LIGHTING MANUFACTURE	22-OEVHP-LED-2000L/3000L/4000L- DIM10-MVOLT-35K/40K/50K-85
B	OXYGEN LIGHTING	3-542 STD FINISH NOT APPROVED
C	ELITE LIGHTING MANUFACTURE	4-OEC-LED-3000L/4000L/5000L- DIM10-MVOLT-35K/40K/50K-85



Job Name:
USCA H&SS RESTROOM RENOVATION
Architect: STUDIO 2LR ARCHITECTURE
(Columbia)
Engineer: GWA, INC (COLUMBIA)

22-OEVHP-LED-2000L/3000L/4000L-
DIM10-MVOLT-35K/40K/50K-85

Notes:

A

TSC21-46710



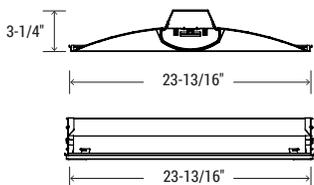
By Elite Lighting

22-OEVHP-LED
2' x 2' Architectural Shallow Plenum Recessed LED Troffer

2'x2'



**EASY 3 COLORS
SELECTOR**
3500K • 4000K • 5000K



NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
7000	7035	55W
6000	6117	46W
5000	5141	37W
4000	4569	32W
3000	3178	21W
2000	2589	17W

Based on 4000K, 85+ CRI. Actual wattage may vary +/- 5%

FEATURES

A combination of stylish design and shallow profile, coupled with innovative LED technology to deliver soft, glare-free illumination, resulting in improved visual comfort and uniform appearance. The enhancement of the volumetric effect provides increased brightness, with an aesthetically pleasing appearance and contemporary design. The energy saving features and optical performance create the ideal choice for educational, medical, office and retail spaces.

LUMENS	2000L/3000L/4000L 5000L/6000L/7000L
CCT & DYNAMIC PLATFORMS	35K/40K/50K
CRI	85+
COLOR QUALITY	3 Step MacAdam Ellipse
SIZE	2'x2', 2'x4'
MOUNTING	Recessed
DIMMING & CONTROL	0-10V Flicker Free 10% Dimming Standard (DIM10)
EMERGENCY	10W - Up to 1000L output (Bodine BSL310) 20W - Up to 2000L output (Bodine BSL20)
LIFETIME	L70 at 50,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21



www.iuseelite.com

Due to the changes of constant improvement in LED technology, all details are subject to change without notice. Consult factory for up to date information.



Job Name:
USCA H&SS RESTROOM RENOVATION
Architect: STUDIO 2LR ARCHITECTURE
(Columbia)
Engineer: GWA, INC (COLUMBIA)

Catalog Number:

22-OEVHP-LED-2000L/3000L/4000L-
DIM10-MVOLT-35K/40K/50K-85

Notes:

Type:**A**

TSC21-46710



By Elite Lighting

22-OEVHP-LED

2' x 2' Architectural Shallow Plenum Recessed LED Troffer

MAINTENANCE

The center acrylic diffuser can be removed, allowing easy access to LED boards and driver compartment, locking into place for secure closure of the luminaire. LED engines and drivers are removable and upgradable even after luminaire installation. Luminaire can be regularly and safely wiped down to ensure optimal performance.

OPTICAL SYSTEM

The LED light engine is secured to the body of the luminaire, with the body acting as a heat sink. A proprietary design of the lens results in zero pixilation, regardless of the viewing angle, with LEDs placed to promote a uniform appearance. The result is even illumination across the space, from luminaire to luminaire.

CONSTRUCTION

Body is constructed of heavy-duty 20-gauge cold rolled steel, post-painted and engineered for maximum strength and extended life. All corners interlock to prevent aesthetic damage to the luminaire, with sides and corners uniformly turned in and hemmed to remove sharp edges for safe handling and easy installation. Luminaire is supplied with multiple wiring entrances for easy daisy chain of luminaires, to add power packs, whips, or other accessories in the field, or for continuous row mounting.

FINISH

Post-painted with a 93% reflective white coat to improve luminaire efficacy, with all body components seamlessly interlocked for added structural strength.

MOUNTING

Luminaires accommodate lay-in ceilings, Slot T, and T-bar suspension systems for 5/8" and 3/8" ceiling thicknesses. Four corner tie points are standard for safety wire support when required, with built-in earthquake clips, standard. Luminaires may be available with flange kits, surface mounted kits, and other options.

OPTIONS

Luminaires can be shipped pre-installed with whips, modular wiring systems, daylight harvesting controls, occupancy sensors, and/or power packs for individual or room control applications.

DRIVER ELECTRICAL INFORMATION

Powered by high-quality constant-current power LED drivers which are rated for 50 to 60Hz at 120/277V input.

DIMMING & DRIVER INFORMATION

DIM10 - Flicker Free 10 % Dimming Standard (DIM10) 0-10V dimming on either MVOLT 120, 277V.

WARRANTY

Five-year warranty for parts and components. (Labor not included)

LISTINGS

c-UL-us - Listed for Feed Through Wiring.
Listed for DLC, California Title 24 compliant.

Example: **22-OEVHP-LED-2000L/3000L/4000L-DIM10-MVOLT-35K/40K/50K-85**

22	OEVHP	LED							
FIXTURE SIZE	SERIES	TYPE	LUMENS	DIMMING	VOLTAGE	CCT	CRI	EMERGENCY	OTHER OPTIONS
22 - 2' X2'	OEVHP - LED Shallow Volumetric Troffer	LED	2000L/3000L/4000L 5000L/6000L/7000L	DIM10 - 0-10V Dimming	MVOLT	35K/40K/50K 30K*	85	0-EMG-LED-10W 0-EMG-LED-20W	22FK - 2'x2' Flange Kit FBF - Internal Fast Blow Fuse SBF - Internal Slow Blow Fuse RIS - Radio Interference Suppressor USA - Made in America Compliance FS-PPV2 - Fixture Sensor Power Pack FD-301 - Low Voltage Daylight Dimming Photosensor LMFC-011 - Digital Lighting Manager FS-205 - Low Voltage Pir Fixture Integrated Occupancy Sensor

*Only for 2000/3000/4000L

*FD-301 & FS-205 require FS-PPV2- Power Pack



Job Name:
USCA H&SS RESTROOM RENOVATION
Architect: STUDIO 2LR ARCHITECTURE (Columbia)
Engineer: GWA, INC (COLUMBIA)

Catalog Number:
22-OEVHP-LED-2000L/3000L/4000L-DIM10-MVOLT-35K/40K/50K-85

Type:

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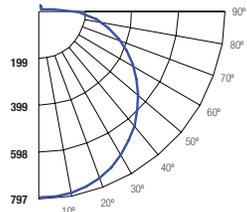
TSC21-46710

22-OEVHP-LED-2000L-3000L-4000L-DIM10-MVOLT-35K-40K-50K-85(2000L)

TEST NO.: EL02102041

INPUT WATTS: 17.3 LUMENS: 2589 CRI: 85 EFFICACY: 150 CCT: 40K SPACING CRITERIA: 1.42

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	291.83	11.30	11.30
0-30	621.81	24.00	24.00
0-40	1024.88	39.60	39.60
0-60	1861.27	72.00	71.90
0-80	2445.68	94.60	94.50
0-90	2552.13	98.70	98.60

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	2300	2147	1965
55	2429	2178	1895
65	2681	2266	1801
75	3253	2506	1632
85	5138	3563	1349

Lumens Per Zone

Zone	Lumens
0-10	75.40
10-20	216.43
20-30	329.99
30-40	403.07
40-50	428.97
50-60	407.41
60-70	342.52
70-80	241.90
80-90	106.45

Candela Tabulation

0	1	2	3	4	5
0	796.851	5	797.380	15	778.340
1	797.380	5	778.340	25	738.720
2	778.340	15	738.720	35	679.820
3	738.720	25	679.820	45	604.940
4	679.820	35	604.940	55	518.260
5	604.940	45	518.260	65	421.490
6	518.260	55	421.490	75	313.190
7	421.490	65	313.190	85	166.570
8	313.190	75	166.570	90	53.030
9	166.570	85	53.030		

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

Cone of Light

Beam Diameter (ft)	Beam Diameter (m)	Beam Diameter (ft)	Beam Diameter (m)
2	276	7.5	5.0
4	73.2	14.5	9.7
6	31.9	22.2	14.6
8	17.8	29.7	19.6
10	11.6	36.8	24.3
12	7.97	44.4	29.2

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

RC	80%				70%				50%				30%				10%				0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	101	89		
1	107	102	97	92	104	99	95	91	95	91	88	90	87	85	87	84	82	84	80		
2	97	88	80	74	94	86	79	73	82	76	71	78	73	69	75	71	67	65	65		
3	88	76	68	61	85	75	66	60	71	64	59	68	62	57	66	61	56	54	54		
4	80	67	58	51	78	66	57	50	63	56	50	61	54	49	58	52	46	41	39		
5	73	60	50	43	71	59	50	43	56	49	43	54	47	42	52	46	41	38	34		
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	47	41	36	34	30		
7	63	49	40	33	61	48	39	33	46	38	33	44	37	32	43	37	32	30	24		
8	58	44	35	29	57	44	35	29	42	34	29	41	34	29	39	33	28	26	20		
9	54	41	32	26	53	40	32	26	39	31	26	37	31	26	36	30	26	24	18		
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	21	15		

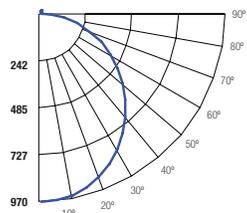
RC - Ceiling Cavity Reflectance RW - Wall Reflectance

22-OEVHP-LED-2000L-3000L-4000L-DIM10-MVOLT-35K-40K-50K-85(3000L)

TEST NO.: EL02102061

INPUT WATTS: 21.5 LUMENS: 3178 CRI: 85 EFFICACY: 148 CCT: 40K SPACING CRITERIA: 1.42

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	355.25	11.20	11.20
0-30	759.03	23.90	23.90
0-40	1253.75	39.50	39.50
0-60	2280.66	71.80	71.80
0-80	3001.03	94.50	94.40
0-90	3132.7	98.70	98.60

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	2395	2523	2686
55	2311	2530	2803
65	2229	2562	3035
75	2018	2762	3611
85	1669	3301	4642

Lumens Per Zone

Zone	Lumens
0-10	91.78
10-20	263.47
20-30	403.78
30-40	494.72
40-50	526.62
50-60	500.28
60-70	421.35
70-80	299.02
80-90	131.67

Candela Tabulation

0	1	2	3	4	5
0	969.793	5	964.800	15	926.850
1	964.800	5	926.850	25	853.470
2	926.850	15	853.470	35	751.620
3	853.470	25	751.620	45	629.810
4	751.620	35	629.810	55	493.140
5	629.810	45	493.140	65	350.320
6	493.140	55	350.320	75	194.250
7	350.320	65	194.250	85	54.110
8	194.250	75	54.110	90	9.810
9	54.110	85	9.810		

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

Cone of Light

Beam Diameter (ft)	Beam Diameter (m)	Beam Diameter (ft)	Beam Diameter (m)
2	336	5.0	7.6
4	89.1	9.6	14.7
6	38.8	14.6	22.3
8	21.6	19.6	29.8
10	14.1	24.3	36.9
12	9.7	29.2	44.5

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

RC	80%				70%				50%				30%				10%				0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	101	99		
1	107	102	97	92	104	99	95	91	95	91	88	90	87	85	86	84	82	84	79		
2	97	88	80	74	94	86	79	73	82	76	71	78	73	69	75	71	67	65	65		
3	88	76	67	60	85	75	66	60	71	64	59	68	62	57	66	60	56	54	54		
4	80	67	58	51	77	66	57	50	63	55	49	60	54	49	58	52	48	45	45		
5	73	60	50	43	71	59	50	43	56	48	42	54	47	42	52	46	41	39	34		
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	47	41	36	34	30		
7	63	49	39	33	61	48	39	33	46	38	33	44	37	32	43	37	32	30	24		
8	58	44	35	29	57	44	35	29	42	34	29	41	34	29	39	33	28	26	20		
9	54	41	32	26	53	40	32	26	39	31	26	37	31	26	36	30	26	24	18		
10	51	37	29	24	50	37	29	24	36	28	24	35	28	23	34	28	23	21	15		

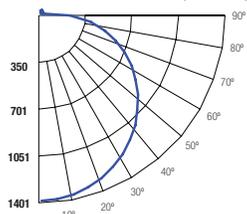
RC - Ceiling Cavity Reflectance RW - Wall Reflectance

22-OEVHP-LED-2000L-3000L-4000L-DIM10-MVOLT-35K-40K-50K-85(4000L)

TEST NO.: EL02102047

INPUT WATTS: 32 LUMENS: 4569 CRI: 85 EFFICACY: 143 CCT: 40K SPACING CRITERIA: 1.42

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	512.62	11.20	11.20
0-30	1092.23	23.90	23.90
0-40	1800.28	39.40	39.40
0-60	3275.59	71.80	71.70
0-80	4312.83	94.50	94.40
0-90	4503.17	98.70	98.60

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	3460	3642	3875
55	3337	3653	4046
65	3176	3719	4384
75	2918	3980	5145
85	2417	4770	6691

Lumens Per Zone

Zone	Lumens
0-10	132.44
10-20	380.17
20-30	579.62
30-40	708.05
40-50	754.47
50-60	720.84
60-70	607.26
70-80	429.98
80-90	190.34

Candela Tabulation

0	1	2	3	4	5
0	1399.479	5	1398.780	15	1338.240
1	1398.780	5	1338.240	25	1232.870
2	1338.240	15	1232.870	35	1086.110
3	1232.870	25	1086.110	45	910.080
4	1086.110	35	910.080	55	712.030
5	910.080	45	712.030	65	499.320
6	712.030	55	499.320	75	280.890
7	499.320	65	280.890	85	78.370
8	280.890	75	78.370	90	14.220
9	78.370	85	14.220		

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

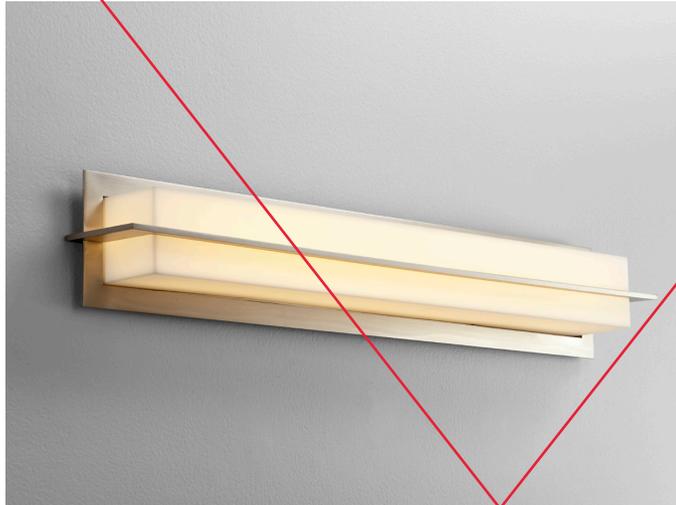
Cone of Light

Beam Diameter (ft)	Beam Diameter (m)	Beam Diameter (ft)	Beam Diameter (m)
2	484	5.0	7.6
4	129	9.8	14.7
6	56.0	14.8	22.3
8	31.2	19.9	29.8
10	20.3	24.6	37.0
12	14.0	29.7	44.5

METRIX Vanity**3-542-xx****NOT APPROVED****oxygen**

FIXTURE TYPE _____ LOCATION _____

PROJECT _____ DATE _____

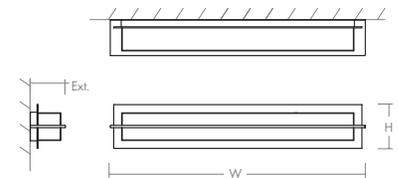


-24 Satin Nickel



-20 Polished Nickel

LIGHT SOURCE	1 x 11.7W LED, 3000K, CRI 90
LUMINAIRE POWER	14.2W at 120V
RATED LIFE	60000 hr RL
OPTIONAL COLOR TEMPERATURES	2700K, 3500K, 4000K
LUMEN OUTPUT	Delivered: 1083 lm (LM-79)
INPUT VOLTAGE	120V to 277V AC, 50/60Hz
DRIVER OUTPUT	350mA, 14.7W max power
DIMMING	TRIAC and ELV dimming at 120V AC; 0-10V dimming, 100% to 1% current output
CONSTRUCTION	Plated Steel and Acrylic
DIFFUSER	- Matte White Acrylic
FINISHES	Polished Nickel (-20), Satin Nickel (-24)
MOUNTING	2" x 3" J-Box, 4" Octagonal J-Box, 4" Square J-Box with a single device mud ring
STANDARDS	UL Dry/Damp listed, ADA Compliant, Conforms to UL STD 1598, Certified CAN/CSA STD C22.2 No 250.0.

**DIMENSIONS**

W:	28.00"
H:	4.75"
Ext:	3.88"
M.C:	2.38" From top of fixture

Order example for standard fixture:

3-542-24 (x- Voltage - xxx-Sequence # - xx-Finish)

3: 120V to 277V

Order example for optional color temperatures: **3-542-2724**

27: 2700K, 35: 3500K, 40: 4000K





Job Name:
USCA H&SS RESTROOM RENOVATION
Architect: STUDIO 2LR ARCHITECTURE
(Columbia)
Engineer: GWA, INC (COLUMBIA)

Catalog Number:
4-OEC-LED-3000L/4000L/5000L-
DIM10-MVOLT-35K/40K/50K-85
Notes:

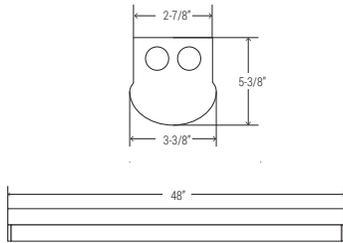
Type:
C
TSC21-46710



OEC-LED 4'
Architectural LED Suspended Linear-Direct



MULTI-LUMEN SELECTOR | **EASY 3 COLORS SELECTOR**
3500K • 4000K • 5000K



FEATURES

The slim profile of the Architectural LED Linear makes it ideal for library stacks or narrow layouts. Flexible design delivers continuous, uniform and glare-free illumination. Available in single pendant or continuous mounting for seamless connection from luminaire to luminaire, with adjustable mounting heights. For use as general or task lighting in hallways, corridors, parking lots, educational, healthcare, office, and industrial applications.

LUMENS	3000/4000/5000
CCT	35K/40K/50K
CRI	85+
COLOR QUALITY	3 Step MacAdam Ellipse
LENGTH	2', 4' or 8'
MOUNTING	Suspended or Surface
DIMMING & CONTROL	0-10V Flicker Free 10% Dimming Standard (DIM10)
EMERGENCY	10W - Up to 1000L output
LIFETIME	L70 at 50,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
5000	5546	39.2 W
4000	4265	29.2 W
3000	3277	21.4 W

Based on 4000K, 85+ CRI. Actual wattage may vary +/- 5%



www.iuseelite.com

Due to the changes of constant improvement in LED technology, all details are subject to change without notice. Consult factory for up to date information.

**Job Name:**

USCA H&SS RESTROOM RENOVATION
 Architect: STUDIO 2LR ARCHITECTURE
 (Columbia)
 Engineer: GWA, INC (COLUMBIA)

Catalog Number:

4-OEC-LED-3000L/4000L/5000L-
 DIM10-MVOLT-35K/40K/50K-85

Notes:

Type:**C**

TSC21-46710

ORACLE
 LIGHTING

By Elite Lighting

OEC-LED

4'

Architectural LED Suspended Linear-Direct

OPTICS & PERFORMANCE

Frosted acrylic lens provides even, shadow-free illumination. Lens has tool-less removal, ensuring easy upgrading and maintenance.

CONSTRUCTION

Heavy-duty 20-gauge cold rolled steel body. High-gloss white finish is pre-treated with 5-stage iron phosphate coating, which provides superior paint adhesion and protection against weathering.

INSTALLATION

Surface or suspended mounting; individual or continuous row mounting (CRM). The first luminaire in the row for CRM will always be the power supply feed. After plugging in the male and female harnesses, which are supplied with each luminaire, they will easily slide together. Secure with two screws in the connecting brackets.

DRIVER ELECTRICAL INFORMATION

Powered by high-quality constant-current power LED drivers, rated for 50 to 60Hz at 120-277V input, produce less than 20% THD, and have a power factor of .90 to 1.00. Male and female 18-gauge 6 wire plug connectors are included with every luminaire to allow for simple, hassle-free continuous wiring. Each luminaire must be installed male to female.

OPTIONS

Pre-installed with daylight harvesting controls, occupancy sensors, and/or power packs for individual or room control solutions.

MULTI LUMEN/MULTI CCT

Easily field-selectable multi-lumen and multi-CCT selector switches allow you to easily change the intensity and CCT in the field.

DIMMING & DRIVER INFORMATION

DIM10 - Flicker Free 10% Dimming Standard (DIM10) 0-10V dimming on either MVOLT 120, 277V.

WARRANTY

Five-year warranty for parts and components. (Labor not included)

LISTINGS

c-UL-us - Listed for Feed Through Wiring.
 Listed for DLC, California Title 24 compliant.

Example: **4-OEC-LED-3000L/4000L/5000L-DIM10-MVOLT-35K/40K/50K-85**

FIXTURE SIZE	SERIES	TYPE	LUMENS	DIMMING	VOLTAGE	CCT	CRI	EMERGENCY	MOUNTING
4 - 4'	OEC - LED General Linear	LED	3000L/4000L/5000L	DIM10 - 0-10V Dimming	MVOLT	35K/40K/50K	85	0-EMG-LED-10W	CRM - Continuous Row Mounting

OTHER OPTIONS

OCGSS - Cable Gripper Suspension Kit
OCVH - V Hook
WG - WireGuard



Job Name:
USCA H&SS RESTROOM RENOVATION
Architect: STUDIO 2LR ARCHITECTURE
(Columbia)
Engineer: GWA, INC (COLUMBIA)

Catalog Number:

4-OEC-LED-3000L/4000L/5000L-
DIM10-MVOLT-35K/40K/50K-85

Notes:

Type:

C

TSC21-46710



By Elite Lighting

OEC-LED

4'

Architectural LED Suspended Linear-Direct

4-OEC-LED-3000L-4000L-5000L-DIM10-MVOLT-35K-40K-50K-85(3000L)

TEST NO.: EL12271999

INPUT WATTS: 21.4

LUMENS: 3277

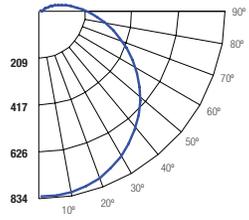
CRI: 85

EFFICACY: 153

CCT: 40K

SPACING CRITERIA: 1.40

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	305.21	9.30	9.30
0-30	649.57	19.80	19.80
0-40	1069.22	32.70	32.60
0-60	1941.67	59.30	59.30
0-80	2602.34	79.50	79.40
0-90	2813.15	85.90	85.90

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	7468	6685	5889
55	8022	6802	5498
65	9158	7271	5007
75	12129	8935	4287
85	28233	19119	3299

Lumens Per Zone

Zone	Lumens
0-10	78.92
10-20	226.29
20-30	344.36
30-40	419.65
40-50	446.19
50-60	426.26
60-70	369.51
70-80	291.17
80-90	210.81

Candela Tabulation

Candela		Tabulation	
0	90	0	90
0	834.436	0	834.436
5	834.270	5	834.270
15	815.380	15	815.380
25	776.620	25	776.620
35	720.040	35	720.040
45	648.210	45	648.210
55	564.800	55	564.800
65	475.070	65	475.070
75	385.320	75	385.320
85	302.040	85	302.040
90	264.290	90	264.290

Cone of Light

Beam Diameter (ft)	Beam Length (ft)	Beam Area (sq ft)
2	289	9.6
4	76.6	18.7
6	33.4	28.4
8	18.6	38.0
10	12.1	47.1
12	8.34	56.7

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	80%				70%				50%				30%				10%				0%			
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
0	116	116	116	116	111	111	111	111	103	103	103	96	96	96	89	89	89	89	86	86	86	86		
1	103	97	92	88	99	94	89	85	87	83	80	80	77	75	73	72	70	70	67	67	67	67		
2	93	84	76	70	89	81	74	68	75	69	64	69	65	60	64	60	57	54	54	51	48	45		
3	84	73	64	57	81	70	62	56	65	58	53	60	55	50	56	51	48	45	40	38	35	32		
4	77	64	55	48	73	62	53	47	58	50	45	54	47	42	50	45	40	35	30	28	25			
5	71	57	48	41	67	55	46	40	51	44	38	48	41	36	45	39	35	30	25	22	20			
6	65	51	42	35	62	50	41	35	46	39	33	43	37	32	40	35	30	25	20	18	18			
7	60	46	37	31	58	45	36	30	42	35	29	39	33	28	37	31	27	25	20	18	18			
8	56	42	33	27	54	41	33	27	38	31	26	36	30	25	34	28	24	22	20	18	18			
9	52	39	30	25	50	37	30	24	35	28	23	33	27	22	31	26	22	20	18	18	18			
10	49	36	28	22	47	34	27	22	33	26	21	31	25	20	29	23	20	18	18	18	18			

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

4-OEC-LED-3000L-4000L-5000L-DIM10-MVOLT-35K-40K-50K-85(4000L)

TEST NO.: EL122719101

INPUT WATTS: 29.2

LUMENS: 4265

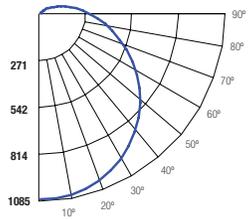
CRI: 85

EFFICACY: 146

CCT: 40K

SPACING CRITERIA: 1.40

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	396.69	9.30	9.30
0-30	844.24	19.80	19.80
0-40	1391.67	32.70	32.60
0-60	2533.22	59.40	59.40
0-80	3396.97	79.70	79.70
0-90	3672.12	86.20	86.10

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	9704	8676	7655
55	10417	8821	7140
65	11888	9426	6579
75	15745	11713	5585
85	36990	24992	3993

Lumens Per Zone

Zone	Lumens
0-10	102.60
10-20	294.09
20-30	447.55
30-40	547.43
40-50	584.00
50-60	557.55
60-70	483.07
70-80	380.69
80-90	275.15

Candela Tabulation

Candela		Tabulation	
0	90	0	90
0	1084.695	0	1084.695
5	1083.790	5	1083.790
15	1060.440	15	1060.440
25	1009.210	25	1009.210
35	936.030	35	936.030
45	842.230	45	842.230
55	733.430	55	733.430
65	616.690	65	616.690
75	500.200	75	500.200
85	395.720	85	395.720
90	347.260	90	347.260

Cone of Light

Beam Diameter (ft)	Beam Length (ft)	Beam Area (sq ft)
2	375	9.6
4	99.6	18.6
6	43.4	28.3
8	24.2	37.9
10	15.7	47.0
12	10.8	56.6

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	80%				70%				50%				30%				10%				0%			
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
0	116	116	116	116	112	112	112	112	103	103	103	96	96	96	89	89	89	89	86	86	86	86		
1	103	97	92	88	99	94	89	85	87	83	80	80	77	75	73	72	70	70	67	67	67	67		
2	93	84	76	70	89	81	74	68	75	69	64	69	65	60	64	60	57	54	54	51	48	45		
3	84	73	64	57	81	70	62	56	65	58	53	61	55	50	56	52	48	45	40	38	35	32		
4	77	64	55	48	73	62	53	47	58	50	45	54	47	42	50	45	40	35	30	28	25			
5	71	57	48	41	67	55	46	40	51	44	38	48	41	36	45	39	35	30	25	22	20			
6	65	51	42	35	62	49	41	35	46	39	33	43	37	32	40	35	30	25	20	18	18			
7	60	46	37	31	58	45	36	30	42	35	29	39	33	28	37	31	27	25	20	18	18			
8	56	42	33	27	54	41	33	27	38	31	26	36	30	25	34	28	24	22	20	18	18			
9	52	39	30	25	50	37	30	24	35	28	23	33	27	22	31	26	22	20	18	18	18			
10	49	35	27	22	47	34	27	22	33	26	21	31	25	20	29	24	20	18	18	18	18			

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

4-OEC-LED-3000L-4000L-5000L-DIM10-MVOLT-35K-40K-50K-85(5000L)

TEST NO.: EL122719102

INPUT WATTS: 39.2

LUMENS: 5546

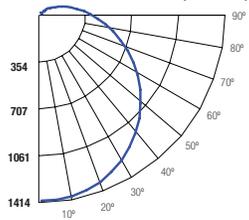
CRI: 85

EFFICACY: 141

CCT: 40K

SPACING CRITERIA: 1.40

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	517.12	9.30	9.30
0-30	1100.35	19.80	19.80
0-40	1810.78	32.70	32.70
0-60	3291.11	59.40	59.30
0-80	4415.37	79.70	79.60
0-90	4773.14	86.10	86.10

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	12655	11311	9971
55	13590	11499	9306
65	15500	12271	8456
75	20506	15027	7276
85	47645	32482	5229

Lumens Per Zone

Zone	Lumens
0-10	133.73
10-20	383.39
20-30	583.23
30-40	710.43
40-50	755.81
50-60	724.52
60-70	629.26
70-80	495.00
80-90	357.77

Candela Tabulation

DATA SHEET

babymedi®

saniflow^{corp}
a mediclinics company
Hand Dryer Technology At the Leading Edge

CP0016H-ASTM / CP0016HCS-ASTM

General Description

- Surface-mounted baby changing stations made of bacterial-resistant polypropylene (CP0016H-ASTM and CP0016HCS-ASTM) and with stainless steel AISI 304 exterior (only CP0016HCS-ASTM).
- High level of safety and cleanliness.
- Models with high strength and durability, suitable for high traffic facilities.
- Trendy and stylish design.
- Biocote® antimicrobial additive embedded into its surface.
- With a pair of bag hooks to hang personal belongings close and at hand.
- In compliance with the American Standard ASTM F2285-04 and the European EN 12221-1 and EN 12221-2 standards.

Components & Materials

- **CP0016H:** surface-mounted baby changing station made of polypropylene in white finish.
- **CP0016HCS:** surface-mounted baby changing station made of polypropylene and with a stainless steel AISI 304 exterior, in satin finish.
- **BED:** approximately 295 in² contoured changing surface area is made of polypropylene in white finish Biocote® antimicrobial additive embedded into its surface, easy cleaning while reducing the growth of odor causing bacteria and staining microbes.
- **LINER DISPENSER:** with lock is made of polypropylene and holds approximately 80 bed liners, minimizing operator refills and discouraging potential vandalism.
- **OPEN/CLOSE MECHANISM:** concealed from the user's view, it consists of a pair of reinforced hinges and a pneumatic cylinder, ensuring high durability and a smooth opening and closing of the baby changing station.
- **MOUNTING CHASSIS:** made of steel with a cataphoresis treatment. The corresponding mounting hardware is supplied, for an easy installation of unit onto the wall.
- **FRONTAL CHASSIS:** (only CP0016HCS) made of one-piece AISI stainless steel, 1/32" thick, fixed to the bottom of the bed by means of 4 bolts and nuts, ensuring that hardware is concealed for user's safety. Easy cleaning and blends with other stainless steel accessories in the washroom.

Technical Specifications

Dimensions	L:33 7/8" x W:3 7/8" (closed) / 22 1/2" (open) x H:18 7/8"
Weight (empty)	27.12 lb (CP0016H) 35.3 lb (CP0016HCS)
Liner dispenser capacity	80 units
Recommended installation height	31 1/2" at lowest point
Recommended installation height (handicapped)	27 1/2" at lowest point

Operation

Open the BabyMedi® baby changing station. Place the baby in the center of the bed and secure with strap to change your baby's diapers. Close the BabyMedi® station after use.

For safety measures, never leave child unattended on the baby changing station. Avoid accidents by utilizing the safety strap.

Please mark the selected item



code

CP0016H-ASTM

material

polypropylene
finish
white

code

CP0016HCS-ASTM

material

polypropylene /
stainless steel
finish
white / satin

Saniflow Corp reserves the right to make changes and/or modifications to the products and their specifications without warning or notice.

For further info please contact SANIFLOW on: Toll free: **1-877-222-9125** or visit our website at **www.saniflowcorp.com**

Tel: +1 (305) 424 2433 Fax: +1 (305) 424 2435 · **sales@saniflowcorp.com**

Installation

According to the installation and safety instructions manual supplied with the unit.

IMPORTANT: in order to ensure BabyMedi is properly installed it is recommended that a qualified person carries out the installation of the unit. The unit must be properly installed on a wall that is able to sustain considerable weight and that can accommodate the supplied installation hardware.

Certificates & Qualifications

Unit shall be ASTM approved, according F2285-04 Standard and GS according EN 12221-1 and EN 12221-2 standards.

Ideal location

Public spaces such as, shopping centers, airports, public buildings, childcare centers, etc. Models suitable for high traffic facilities with high strength and durability.

IMPORTANT: the Congress of the United has taken a further step towards gender equality by implementing law H.R.5147-Babies Act. (10/07/2016). By this law, the American Government states that restrooms, both for men and women, in public buildings all around the country, must have diaper changing facilities in place.

Guide specification

Surface-mounted baby changing stations made of bacterial-resistant polypropylene (CP0016H and CP0016HCS) and with stainless steel AISI 304 exterior (only CP0016HCS).

BabyMedi® changing stations offer a very high level of safety and cleanliness being the ideal solution for public spaces such as, shopping centers, airports, public buildings, childcare centers, etc. Models suitable for high traffic facilities with high strength and durability.

Their trendy and stylish design, allow these baby changing stations to blend into any space perfectly.

Biocote® antimicrobial additive, based on ion silver technology, is embedded into its own surface, promoting an easy cleaning and reducing the growth of odor causing and staining microbes.

BabyMedi® baby changing stations are assembled with child protection straps made of nylon material.

Includes a pair of bag hooks, one of each side, to hang personal belongings.

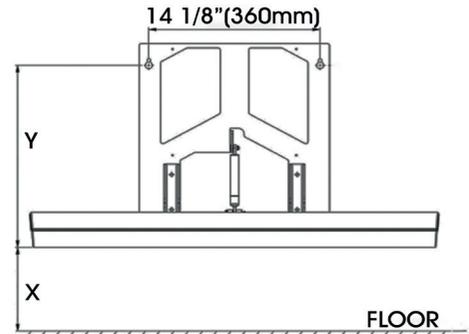
BabyMedi® units fully comply with the American standard ASTM F2285-04 and the European EN 12221-1 and EN 12221-2 standards that require baby changing stations be able to support a 110 lb static load test during one hour. Moreover, units tested in our own laboratories have withstood loads over 220 lb.

Overall dimensions:

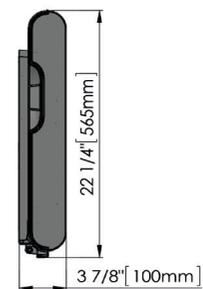
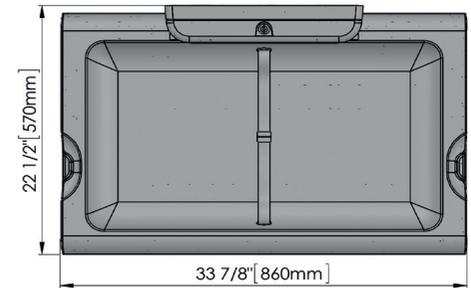
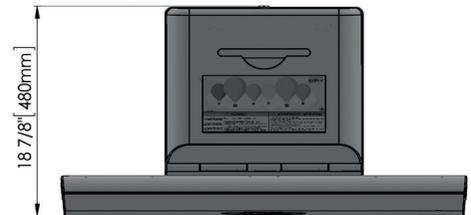
L:33 7/8" x W:3 7/8" (closed)/ 22 1/2" (open) x H:18 7/8"

Weight: 27.12 Lbs. (CP0016H) / 35.3 Lbs. (CP0016HCS)

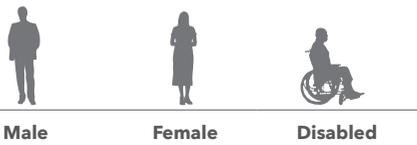
MOUNTING



CP0016H-ASTM / CP0016HCS-ASTM



Recommended heights from floor



	Male	Female	Disabled
x To bottom of unit	31 1/2" (800mm)	31 1/2" (800mm)	27 1/2" (700mm)
y To mounting brackets	16 3/8" (415mm)	16 3/8" (415mm)	12 13/32" (315mm)

Job: _____

Model number: _____

Variations: _____

Architect / Engineer: _____

Contractor: _____

Customer / Wholesaler: _____

City / State / Country: _____

Date: _____

Quantity: _____

Saniflow Corp reserves the right to make changes and/or modifications to the products and their specifications without warning or notice.

M09A-UL / M09AB-UL / M09AC-UL / M09ACS-UL

General Description

- High speed hand dryer recommended for very high traffic areas.
- ADA-Compliant with recessed kit.
- Maximum robustness and vandal-proof.
- GreenSpec approved & offering LEED Credits.



Components & Materials

- **M09A-UL:** 1/16" (1.5 mm) thick one-piece steel cover; white epoxy finish
 - **M09AB-UL:** 1/16" (1.5 mm) thick one-piece steel cover; black epoxy finish
 - **M09AC-UL:** 1/16" (1.5 mm) thick one-piece stainless steel cover; bright finish
 - **M09ACS-UL:** 1/16" (1.5 mm) thick one-piece stainless steel cover; satin finish
- Cover fixed to the base with 2 vandal-proof lock screws and lock with special key wrench.
- **BASE PLATE:** Fire retardant UL 94V0 plastic base, with four Ø 7/32" (6 mm) holes for wall mounting. Includes silent-blocks to damp mechanical vibrations.
 - **ADJUSTABLE MOTOR:** High pressure universal brush, fully adjustable (19,000-28,000 rpm) potentiometer, Class A.
 - **HEATING ELEMENT:** 250 Watts waved wire Ni-Cr heating that incorporates a self-resettable thermal cut-off at 180°F.
 - **ADJUSTABLE SENSOR:** electronic infrared detection sensor with fully adjustable (2"-8") potentiometer. Includes polycarbonate viewing windows.
 - Automatic disconnection system after 60 seconds of continuous use.

Technical Specifications

Voltage - 100-120V; 208V; 220-240V	Total power - 600-1,300 W
Frequency - 50/ 60 Hz	Motor Power - 350-1,050 W
Insulation - Grounding required (Class I)	Heating element: 250 W
Dimensions - 13"H x 8 3/8"W x 6 11/16"D	Consumption
	6.4-10 A (120 V) 7.5 - 11A (230 V)
Weight - 11.24 Lbs.	r.p.m. - 19,000-28,000 rpm
Effective airflow - 80 - 100 CFM	Air temperature - (at 4" distance/ T amb. 70 °F) 106 °F
Max air velocity - 203 mph / 18.000 LFM	Drying time - 10 - 15 sec
Protection level - IP23	Noise level (at 79") - 67 - 74 dBA
Mounting -	
Surface-mounted: not ADA compliant	
Recessed (with recessed kit): ADA compliant	

Operation

Place the hands under the air outflow valve. The dryer will start automatically, and go on with no interruption as long as the hands are kept in the detection range of the sensor. The appliance will stop 2 seconds after the hands are removed from the airflow.

Please mark the selected item



code
M09A-UL
material
steel
finish
white epoxy



code
M09AB-UL
material
steel
finish
black epoxy



code
M09AC-UL
material
stainless steel
AISI 304
finish
bright



code
M09ACS-UL
material
stainless steel
AISI 304
finish
satin



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info@ameraproducts.com

Installation

Verify all rough-in dimensions prior to installation. Hand dryers require a dedicated circuit and must be properly grounded. a GFCI (Ground fault circuit interrupter) is recommended. One side of dryer show be mounted to a stud.

Certificates & Qualifications

Unit shall be UL and CSA approved, according to UL 499, CSA C22.2 standars and GreenSpec approved.

N° dryers to be fitted

- In toilet areas with a normal frequency of use and only one wash-basin: 1 dryer.
- In toilet areas with a normal frequency of use and more than one wash-basin: 1 dryer for each 2-3 wash-basins.
- In toilet areas with multiple wash basins: 4 wash basins: 2 dryers; 1 row of 6 wah basins: 2-3 dryers; 1 row of 8 wash basins: 3 dryers.

Ideal location

Between the wash-basin and exit. It is not recommended to install dryer between wash-basins, next to urinals, lavatories and showers. If installing automatic dryers over marble surface or ledge, the minimum distance from the dryer to the ledge must be 15-3/4". It is recommended that hand dryers be distributed throughout the washroom area to avoid overcrowding.

Guide specification

Surface-mounted hand dryer shall have a one piece steel cover with white epoxy finish (M09A-UL), or steel cover with black finish (M09AB-UL), or stainless steel cover with bright finish (M09AC-UL), or stainless steel cover with satin finish (M09ACS-UL). Hand dryer shall include a fire resistant UL V0 plastic base, fully adjustable (2" to 8") infrared sensor potentiometer and fully adjustable (19,000 - 28,000 RPM) universal brush motor. Dryer shall operate at 67-74 dBA while delivering 68-108 CFM of air at 106 °F and 203 mph as maximum air velocity (Max - 18,000 LFM) during user controlled drying cycle. Dryer shall have a total power of 450-1,300 W with a consumption of 6.4 to 10 A.

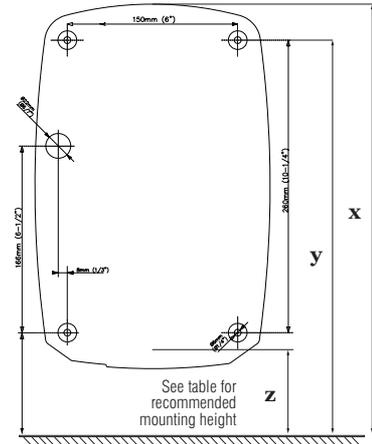
Unit shall be UL and CSA approved, according to UL 499, 13th Edition, CSA C22.2 standards, and GreenSpec approved.

Overall dimensions:

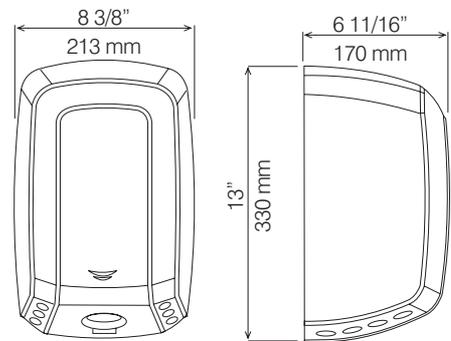
13"H x 8 3/8"W x 6 11/16"D (330 mm x 213 mm x 170 mm)

Weight: 11.24 Lbs. (5.1 Kg)

MOUNTING



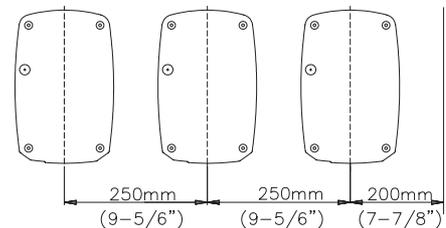
M09A-UL / M09AB-UL / M09AC-UL / M09ACS-UL



Recommended heights from floor

	Male	Female	Child	Disabled
x To top of machine	59" / 150 cm	57-1/8" / 145 cm	49-1/4" / 125 cm	51-1/8" / 130 cm
y To mounting brackets	57-1/2" / 146 cm	55-1/2" / 141 cm	47-5/8" / 121 cm	49-5/8" / 126 cm
z To sensor top	46-1/8" / 117 cm	44-1/8" / 112 cm	36-1/4" / 92 cm	38-1/4" / 97 cm

Serial mounting



Job: _____

Model number: _____

Variations: _____

Architect / Engineer: _____

Contractor: _____

Customer / Wholesaler: _____

City / State / Country: _____

Date: _____

Quantity: _____

Saniflow Corp reserves the right to make changes and/or modifications to the products and their specifications without warning or notice.

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