

USC Aiken - English Dept. Office & Classroom Renovations

471 University Parkway
Aiken, SC 19801

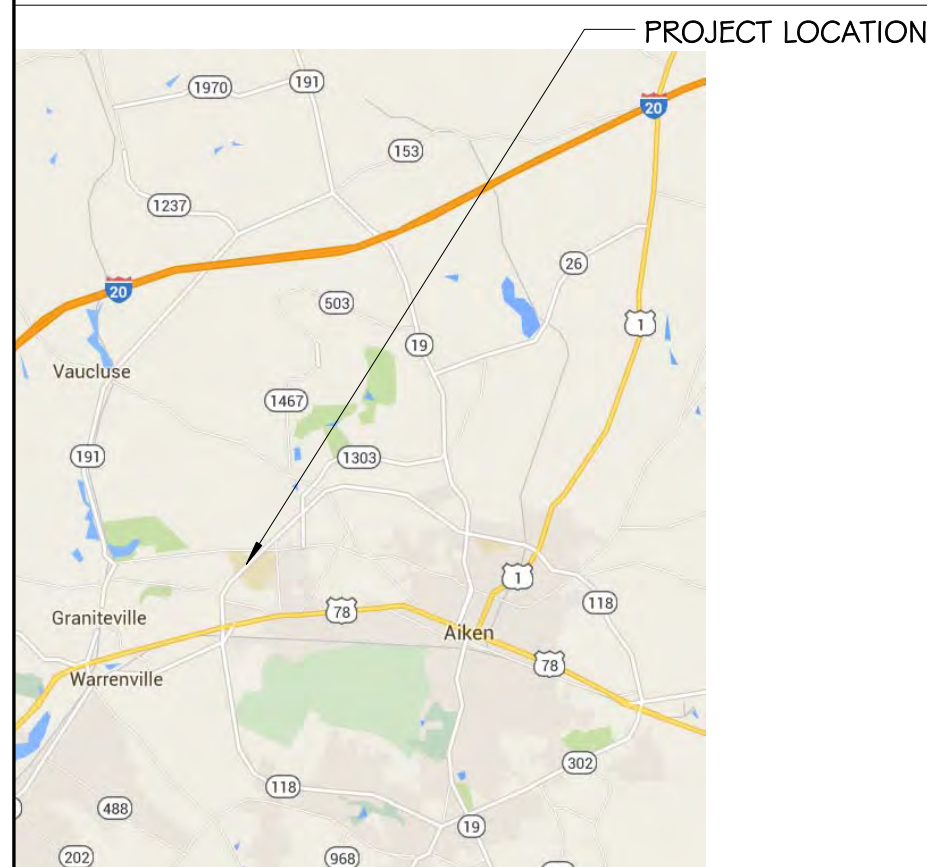


PROJECT TEAM

ARCHITECTS
INTERIOR DESIGNERS
ELECTRICAL ENGINEERS
MECHANICAL ENGINEERS

GOODWYN MILLS AND CAWOOD, INC.
GOODWYN MILLS AND CAWOOD, INC.
EDC, INC.
ING CONSULTING

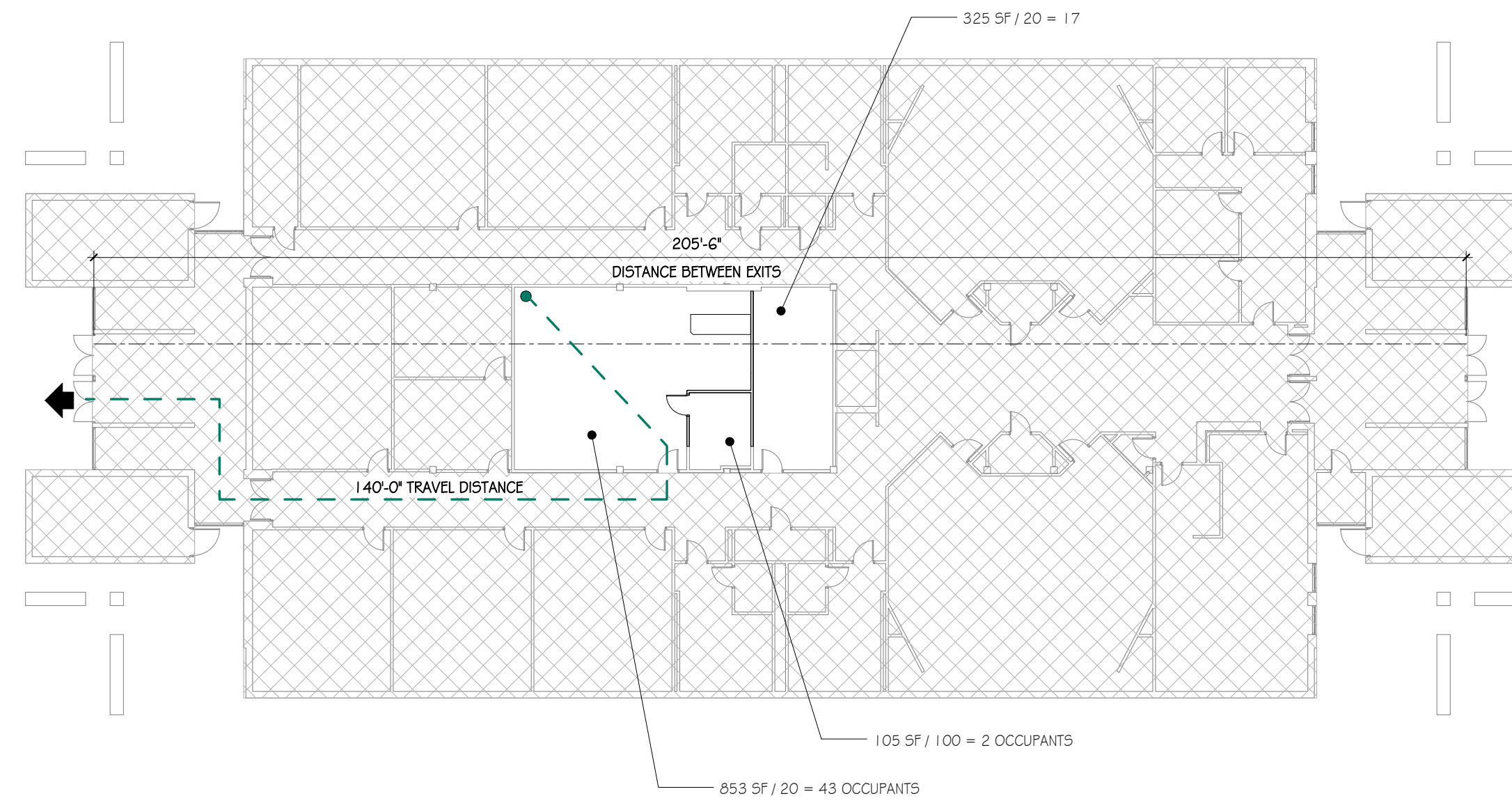
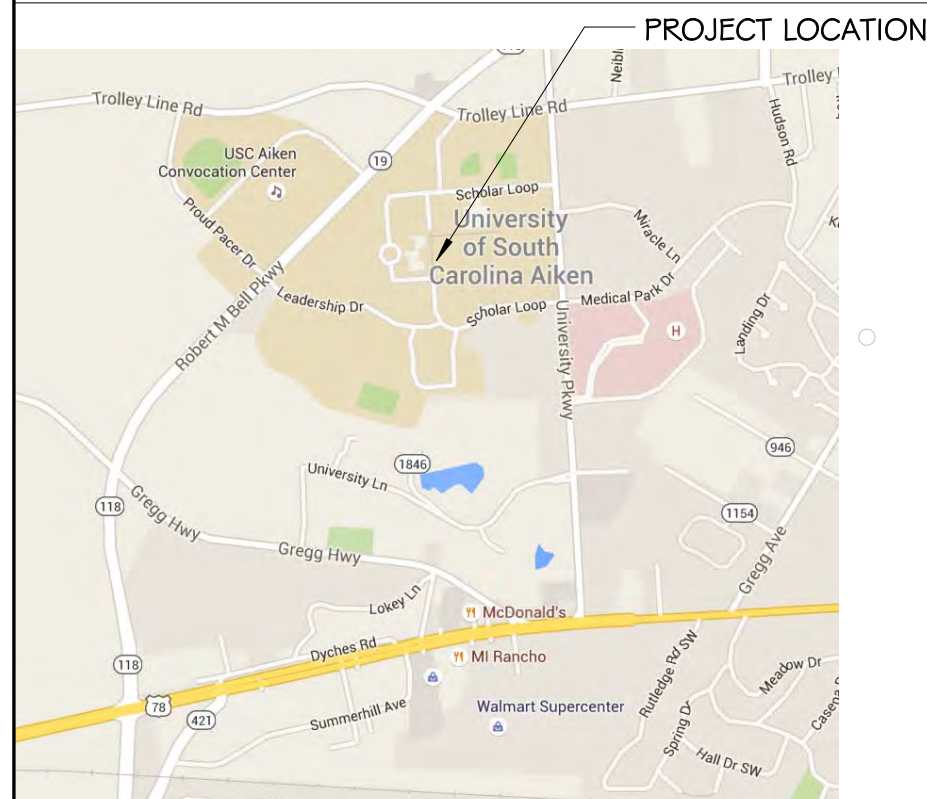
VICINITY MAP



CAMPUS MAP



LOCATION MAP



1 LIFE SAFETY PLAN
1-1604

| | |
|--|---|
| | ACTUAL OCCUPANT LOAD PER EXIT |
| | EXIT WIDTH (INCHES) |
| | OCCUPANTS ALLOWED PER EXIT |
| | EGRESS DIRECTION |
| | FE FIRE EXTINGUISHER |
| | FE-C RECESSED FIRE EXTINGUISHER |
| | EXIT SIGN |
| | NO WORK ZONE |
| | 125' MAXIMUM TRAVEL DISTANCE TO EXIT |
| | NON-RATED PARTITION |
| | 1 HR. RATED PARTITION |
| | 2 HR. RATED PARTITION FIRE BARRIER |
| | 4 HR. RATED PARTITION |

LIFE SAFETY, BUILDING CODE, AND SHEET INFORMATION

BUILDING CODE SUMMARY

NAME OF PROJECT: USC AIKEN - ENGLISH DEPT OFFICE & CLASSROOM RENOVATIONS
ADDRESS: 471 UNIVERSITY PARKWAY, AIKEN, SC 19801 (1455 BUILDING)
PROPOSED USE: BUSINESS
OWNER OR AUTHORIZED AGENT: BRIAN ENTER PHONE # (803)641-3254
OWNED BY: CITY/COUNTY PRIVATE STATE OSU
CODE ENFORCEMENT JURISDICTION: CITY COUNTY STATE

LEAD DESIGN PROFESSIONAL:

| POSITION | FIRM | NAME | PHONE # | E-MAIL |
|--------------|-------------------------|-----------------|--------------|------------------------------|
| ARCHITECT | GOODWYN, MILLS & CAWOOD | MICHAEL KEESHEN | 864.527.0460 | mike.keeshen@gmncnetwork.com |
| PROJECT MGR. | GOODWYN, MILLS & CAWOOD | MATTHEW KING | 864.527.0460 | matthew.king@gmncnetwork.com |

YEAR EDITION OF CODE:

2012 INTERNATIONAL BUILDING CODE
 NEW CONSTRUCTION RENOVATION (EXISTING BLDG.) UPPIT ALTERATION

BUILDING DATA

IBC
CONSTRUCTION TYPE: II-B
SPRINKLERS: NO YES
STANDPIPES: NO YES
FIRE DISTRICT: NO YES
BUILDING HEIGHT: 2 STORY/STORIES
MEZZANINE: NO YES
HIGH RISE: NO YES
GROSS BUILDING AREA (SQ. FT.):
FLOOR NEW RENOV UPPIT
FIRST FLOOR 0 1364
SECOND FLOOR 0 0
TOTAL 0 1364

ALLOWABLE AREA

PRIMARY OCCUPANCY: BUSINESS
MIXED OCCUPANCY: NO

FIRE PROTECTION REQUIREMENTS

LIFE SAFETY PLAN SHEET #, IF PROVIDED: A-001

LIFE SAFETY SYSTEM REQUIREMENTS

EMERGENCY LIGHTING: NO YES
EXIT SIGNS: NO YES
FIRE ALARM: NO YES
SMOKE DETECTION SYSTEMS: NO YES

EXIT REQUIREMENTS

NUMBER AND ARRANGEMENT OF EXITS

WITHIN THE SCOPE OF WORK, THE OCCUPANT LOAD WAS REDUCED AND THE EGRESS CONFIGURATION REMAINS UNCHANGED. NO CHANGES ARE MADE TO EXISTING BUILDING EGRESS COMPONENTS.

INDEX OF DRAWINGS

| No. | Sheet Name |
|-------|---|
| 3. | ARCHITECTURE |
| A-001 | TITLE SHEET |
| A-100 | DEMOLITION & RENOVATION PLANS AND SCHEDULES |
| 7. | ELECTRICAL |
| E-100 | LEGEND AND LIGHTING, SYSTEMS, AND POWER PLAN - OFFICE AREA, LAB AND CLASSROOM |
| E-200 | LEGEND, NOTES, DETAILS AND FIXTURE SCHEDULE |

USC AIKEN - ENGLISH DEPT OFFICE & CLASSROOM RENOVATIONS

471 University Parkway
Aiken, SC 29801
GMC # AGRE160026
USC # CP50003059
ISSUE FOR BID

TITLE SHEET

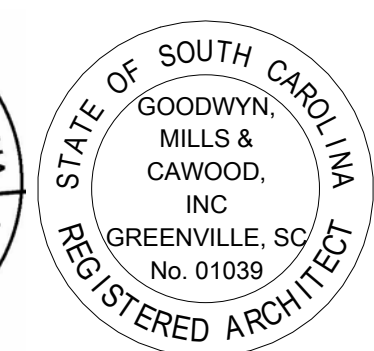
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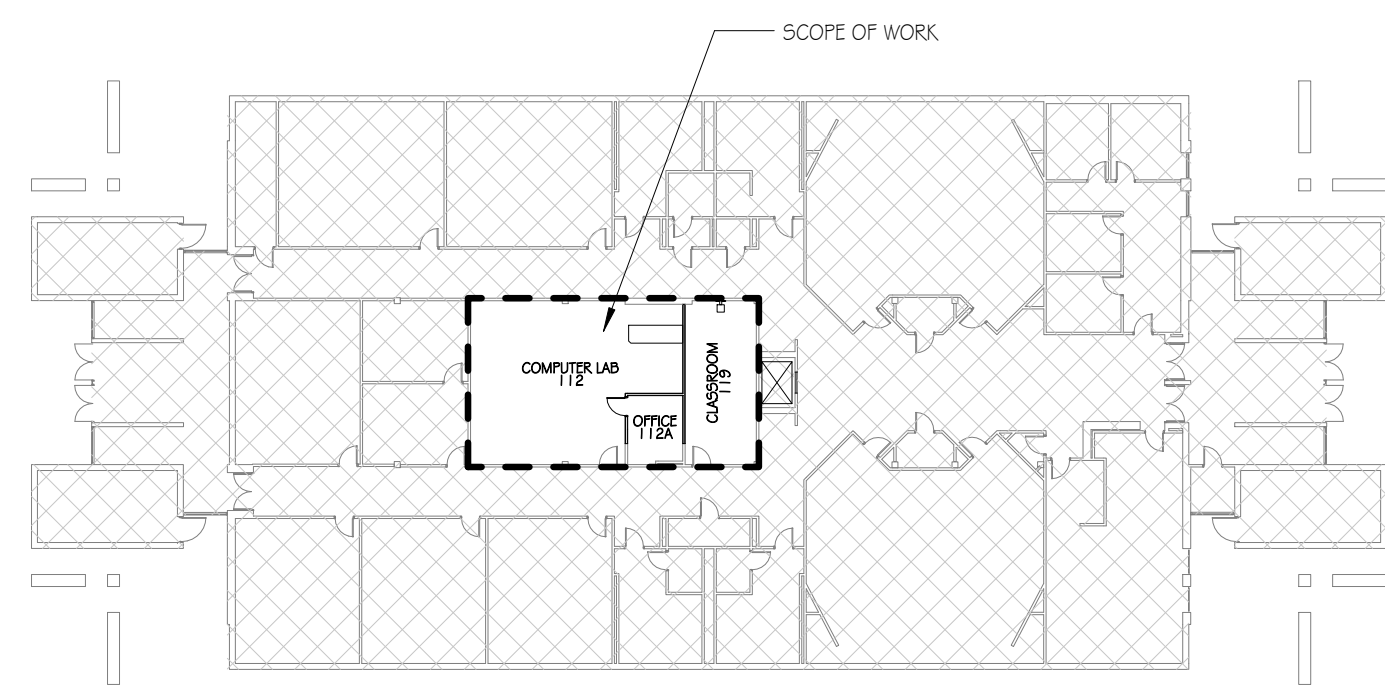
GOODWYN MILLS CAWOOD

101 East Washington Street, Suite 200 | Greenville, SC 29601
Tel 864.527.0460 | GMCNETWORK.COM

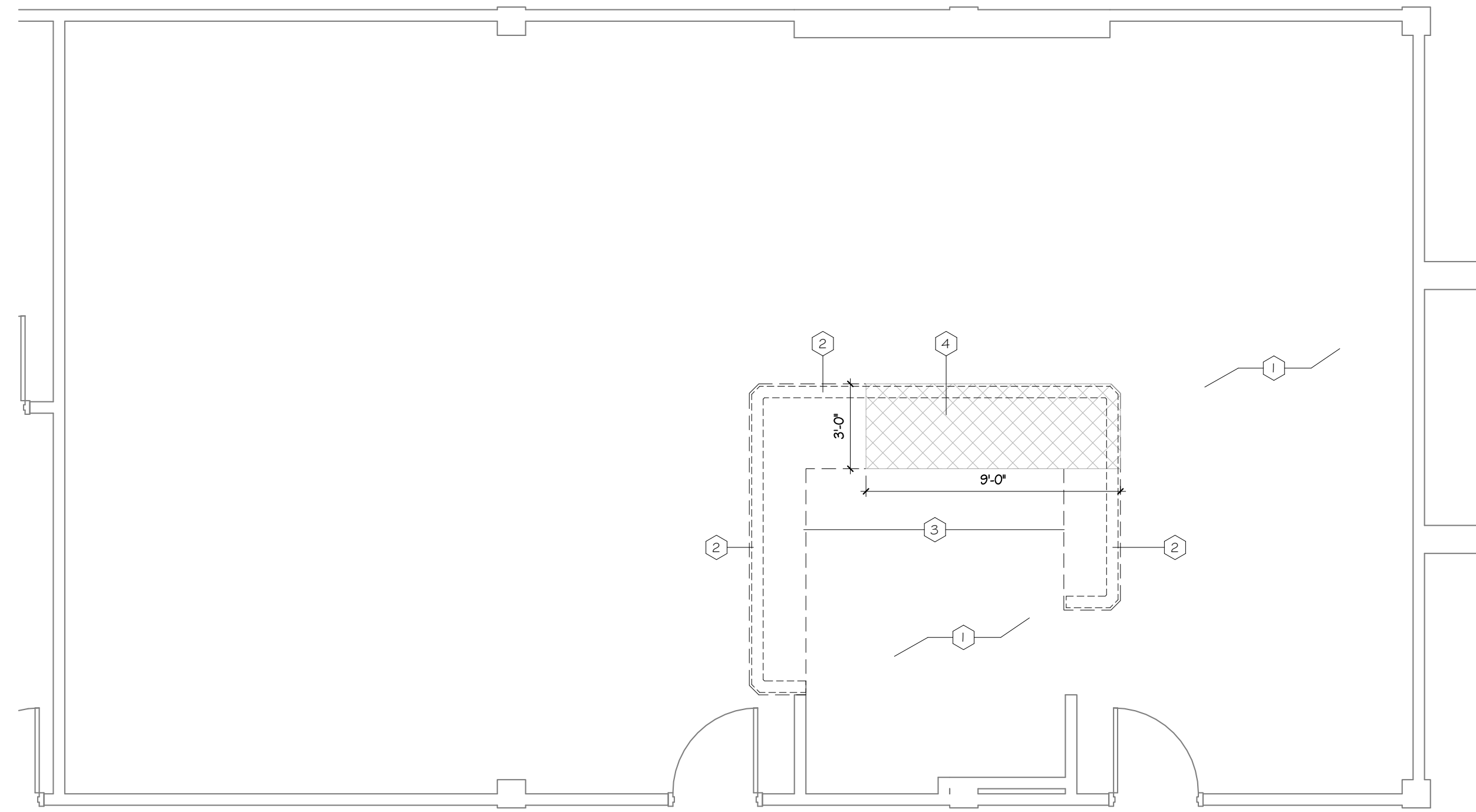
drawn by: JCB/JJN
checked by: MEK

| ISSUE | DATE |
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| ISSUE FOR BID | 06/09/2016 |

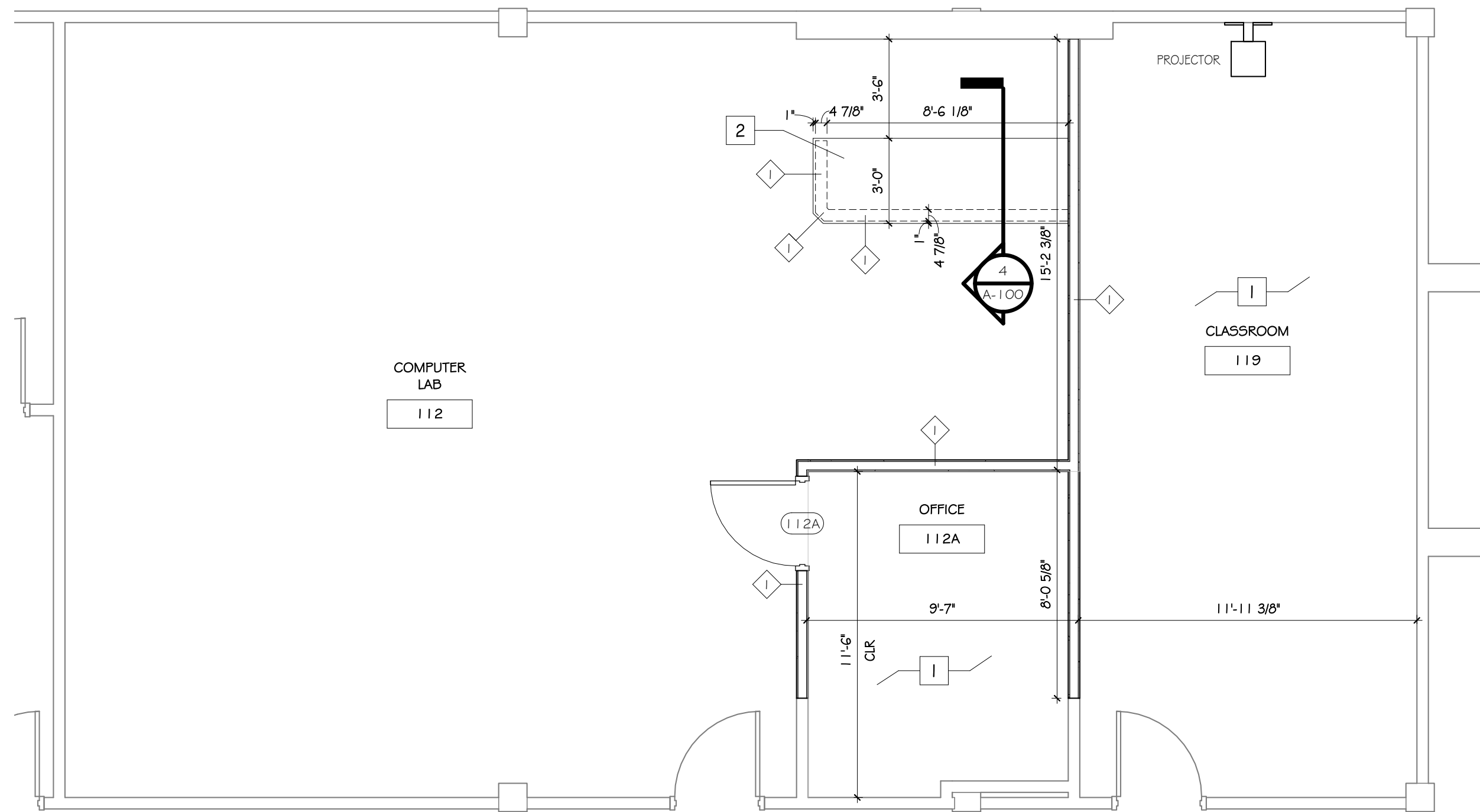




1 KEY PLAN - SCOPE OF WORK
12/1/16



2 DEMOLITION PLAN - ROOM 112
12/1/16



3 RENOVATION PLAN - ROOM 112
12/1/16

| DEMOLITION PLAN NOTES | |
|-----------------------|---|
| ① | DEMOLISH CARPET IN SELECT AREA (RM. 112A & 112B IN NEW PLAN). PREPARE FLOOR FOR NEW BASE AND CARPET |
| ② | DEMOLISH COUNTER TOP SUPPORT SYSTEM |
| ③ | DEMOLISH COUNTER TOP, U.N.O. |
| ④ | SALVAGE MARKED PORTION OF COUNTER TOP. PORTION TO BE RE-USED IN RENOVATION. |

| GENERAL DEMOLITION NOTES | |
|--------------------------|--|
| 1. | EXISTING CEILING SYSTEM TO REMAIN, U.N.O. |
| 2. | CONTRACTOR TO VERIFY ALL CONDITIONS ON SITE PRIOR TO DEMOLITION. |
| 3. | REFER TO MEP DOCUMENTS FOR FULL SCOPE OF DEMOLITION. |

WALL TYPE I

FRAMING:
3 5/8" METAL STUDS @ 16" O.C.
22 GA MINIMUM

SHEATHING:
5/8" GYPSUM WALL BOARD
EACH SIDE

PARTITION HEIGHT:
EXTEND TO UNDERSIDE OF ACT

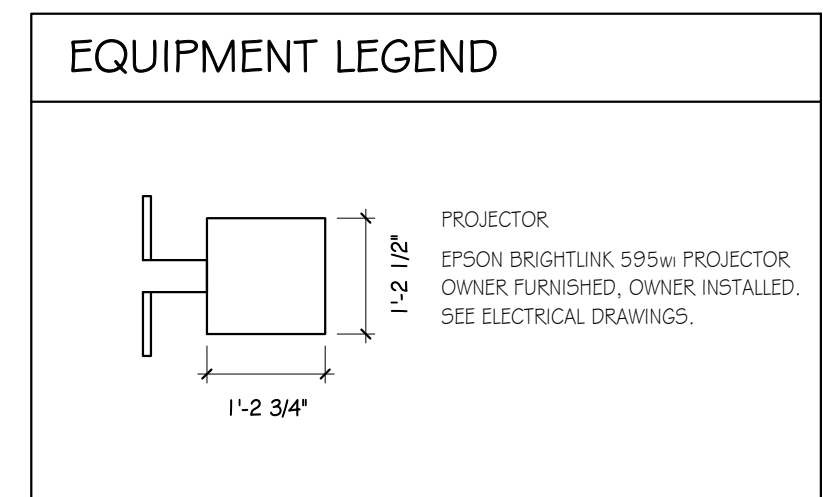
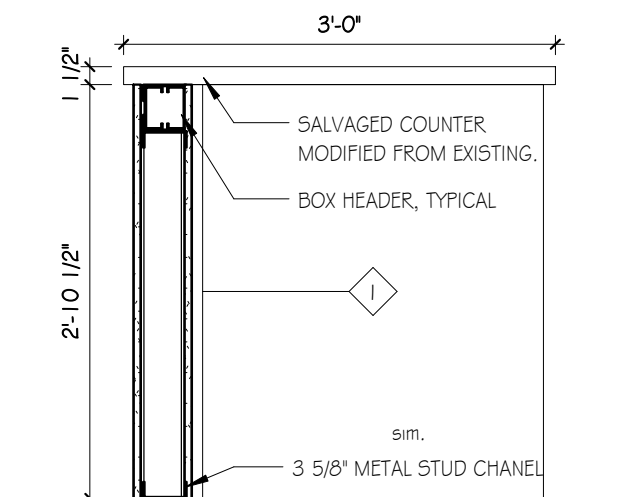
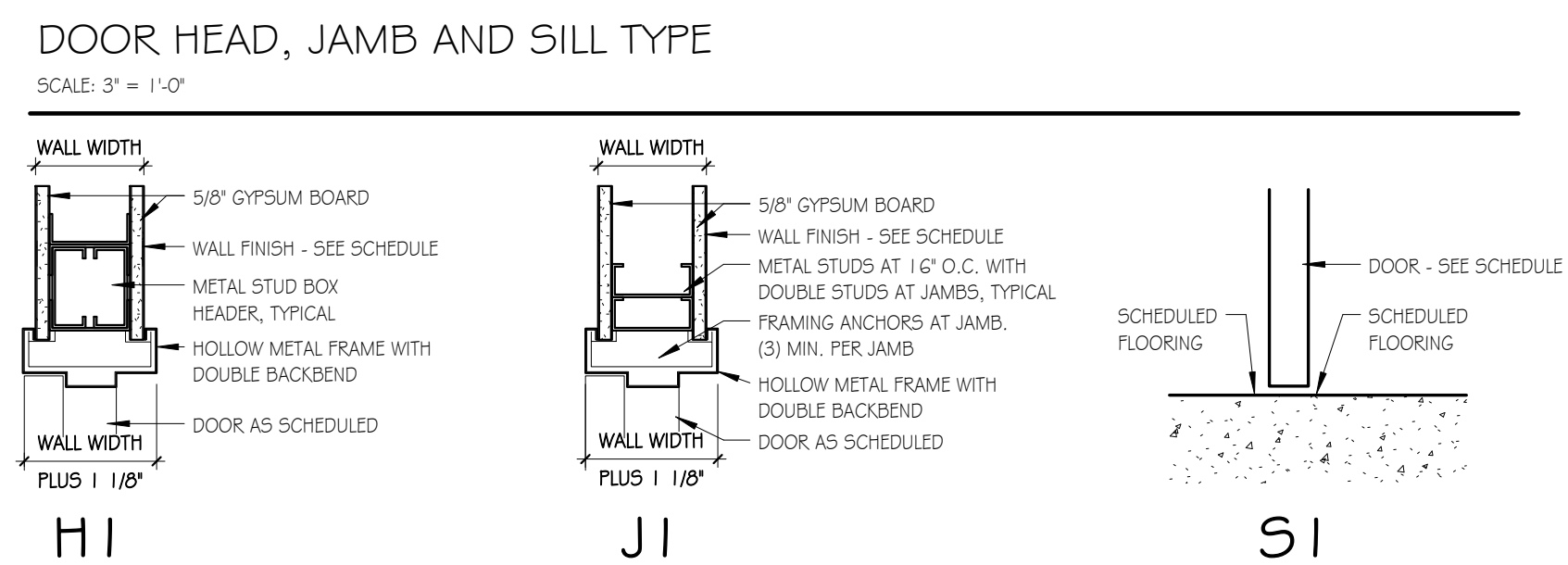
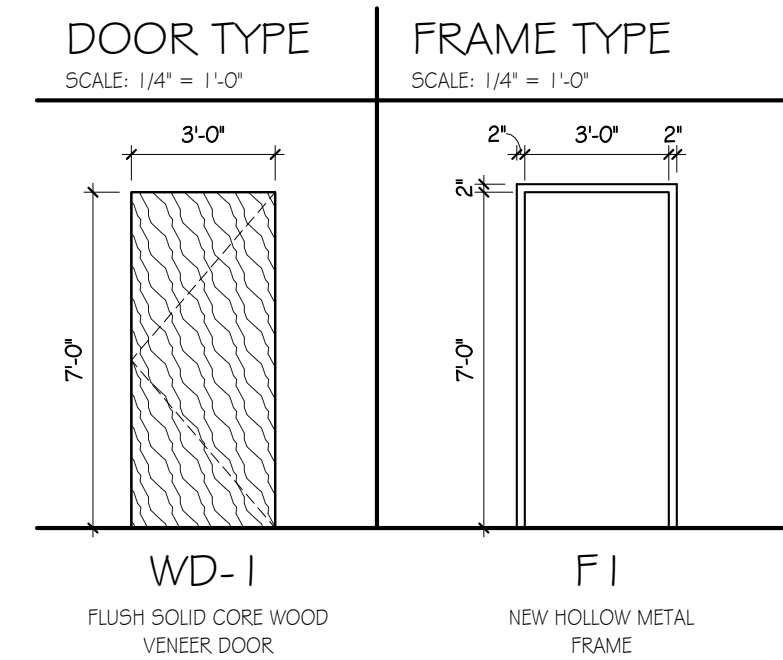
| RENOVATION PLAN NOTES | |
|-----------------------|--|
| 1 | NEW CARPET AND WALL BASE AS NOTED IN FINISH SCHEDULE |
| 2 | SALVAGED PORTION OF DESK WITH NEW SUPPORT SYSTEM |

| GENERAL RENOVATION NOTES | |
|--------------------------|--|
| 1. | REMOVE AND REPLACE DAMAGED ACT PANELS TO MATCH EXISTING. |
| 2. | PATCH & REPAIR ALL EXISTING WALLS AS REQUIRED. |
| 3. | REFER TO MEP DOCUMENTS FOR FULL SCOPE OF RENOVATION. |
| 4. | EXISTING FLOOR TO REMAIN IN NEW RM. 112 AREA. |

| # | ROOM | FLOORS | | WALL FINISH | | | CEILING | | Comments |
|------|--------------|--------|------|-------------|--------|--------|---------|----------|----------|
| | | FINISH | BASE | N WALL | E WALL | S WALL | W WALL | CLG TYPE | |
| 112 | COMPUTER LAB | ETR | ETR | PNT-1 | PNT-1 | PNT-1 | PNT-1 | ETR | |
| 112A | OFFICE | CPT | RB | PNT-1 | PNT-1 | PNT-1 | PNT-1 | ETR | |
| 119 | CLASSROOM | CPT | RB | PNT-1 | PNT-1 | PNT-1 | PNT-1 | ETR | |

| FINISH LEGEND | | | | | |
|---------------|-------------|--|--------|------------------|--|
| FLOOR | | | WALL | | |
| NUMBER | TYPE | DETAIL DESCRIPTION | NUMBER | TYPE | DETAIL DESCRIPTION |
| CPT | CARPET | Manufacturer: MOHAWK Name: MOTOSPORTS II Style: PHOTOFINISH II Color: FREEPASS (#935) | PNT-1 | MAIN WALL PAINT | Manufacturer: SHERWIN WILLIAMS Color: RELIABLE WHITE (SW 6091) Finish: MATTE |
| RB | RUBBER BASE | Manufacturer: ROPPE Style: COVE Color: FULL RANGE Size: 4" | PNT-2 | DOOR FRAME PAINT | Manufacturer: SHERWIN WILLIAMS Color: MATCH EXISTING FRAMES |
| | | | STN-1 | DOOR STAIN | FROM FULL RANGE OF MANUF. COLOR TO MATCH EXISTING |

| # | TYPE | DOOR | | | FRAME | | | HEAD | JAMB | SILL | Comments | | |
|------|------|-------|--------|--------|-------|--------|-------|------|-------|------|----------|--------|----------------------|
| | | WIDTH | HEIGHT | THK. | MATL. | FINISH | MATL. | | | | | FINISH | |
| 112A | WD-1 | 3'-0" | 7'-0" | 1 3/4" | WD | STN-1 | FI | HM | PNT-2 | HI | J1 | S1 | "BEST" DOOR HARDWARE |



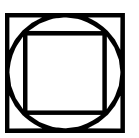
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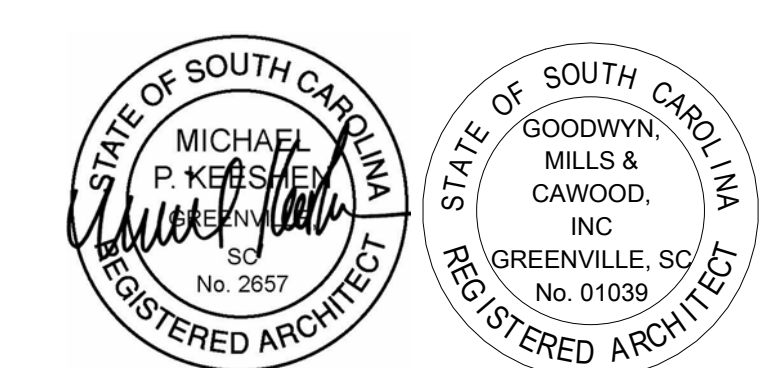
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drawn by: JCB/JJN
checked by: MEK

DEMOLITION & RENOVATION PLANS AND SCHEDULES



A-100
sheet _____ of _____

LEGEND

- LIGHTING AND POWER**
- CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALL CONTAINING 3 NUMBER 12 CONDUCTORS UNLESS SHOWN OTHERWISE. HASH MARKS, IF SHOWN, INDICATE QUANTITY OF NUMBER 12 CONDUCTORS. WHERE DRAWING SPACE PROHIBITS HASH MARKS BEING SHOWN REFER TO CIRCUIT NUMBERS AND PROVIDE REQUIRED NUMBER OF CONDUCTORS PER CIRCUIT TYPE.
- CONDUIT RUN CONCEALED IN OR BELOW FLOOR SLAB, OR UNDERGROUND.
- HOMERUN TO PANELBOARD, LETTER OR LETTERS INDICATE PANELBOARDS, NUMBERS INDICATE CIRCUIT NUMBERS.
- EXPOSED CONDUIT RUN.
- LIGHTING FIXTURE, "Z" INDICATES THE CIRCUIT NUMBER AND "E" THE FIXTURE TYPE. SEE FIXTURE SCHEDULE FOR DIMENSIONS AND MOUNTING TYPE.
- RECESSED TROFFER FIXTURE. SEE FIXTURE SCHEDULE FOR DIMENSIONS AND MOUNTING TYPE.
- EMERGENCY RECESSED TROFFER. SEE FIXTURE SCHEDULE FOR DIMENSIONS, MOUNTING TYPE AND BATTERY PACK INFORMATION (IF APPLICABLE).
- JUNCTION BOX, FLUSH WALL MOUNTED.
- JUNCTION BOX LOCATED ABOVE CEILING OR BELOW GRADE.
- DUPLEX CONVENIENCE OUTLET, +18" TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED. 5" INDICATES THE CIRCUIT NUMBER.
- DUPLEX CONVENIENCE OUTLET MOUNTED ABOVE COUNTER, AT +46" TO CENTERLINE OF OUTLET.
- QUADRUPLX RECEPTACLE, +18" TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
- SINGLE POLE TOGGLE SWITCH, 3'-6" MOUNTING HEIGHT.
- LUTRON MAESTRO 0-10 VOLT, LOW-VOLTAGE DIMMER WITH OCCUPANCY SENSOR FOR L.E.D. FIXTURES. MOUNT AT +3'-6" ABOVE FINISHED FLOOR.
- WIREMOLD - PROVIDE RECEPTACLES @ 24" ON CENTER AND DATA @ 18" ON CENTER UNLESS OTHERWISE NOTED.
- PANELBOARD, SEE SCHEDULE.
- FIRE ALARM SYSTEM**
- STROBE LIGHT, CEILING MOUNTED.
- SMOKE DETECTOR, CEILING MOUNTED.
- TELEPHONE / DATA SYSTEMS**
- DATA OUTLET, +18" TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE. STUB UP 1'C. TO CEILING SPACE ABOVE.
- DATA OUTLET, +46" TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE. STUB UP 1'C. TO CEILING SPACE ABOVE.
- A/V JUNCTION BOX. PROVIDE 4 1/2" TWO GANG JUNCTION BOX WITH TWO (2) 1-3/4" CONDUITS STUBBED ABOVE ACCESSIBLE CEILING IN CLASSROOM. +18" TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED. PROVIDE WITH BLANK STAINLESS STEEL COVER. WHERE SHOWN ON WIREMOLD COORDINATE FACEPLATE REQUIREMENTS WITH THE OWNER.
- OCCUPANCY SENSORS**
- DUAL TECHNOLOGY 360° OCCUPANCY SENSOR, CEILING MOUNTED. INFRARED/ULTRASONIC (WATTSTOPPER "DT" SERIES OR EQUAL). PROVIDE ALL NECESSARY COMPONENTS TO INSURE PROPER OPERATION (POWER PACKS, SLAVE PACKS, ETC.)

KEYED NOTES:

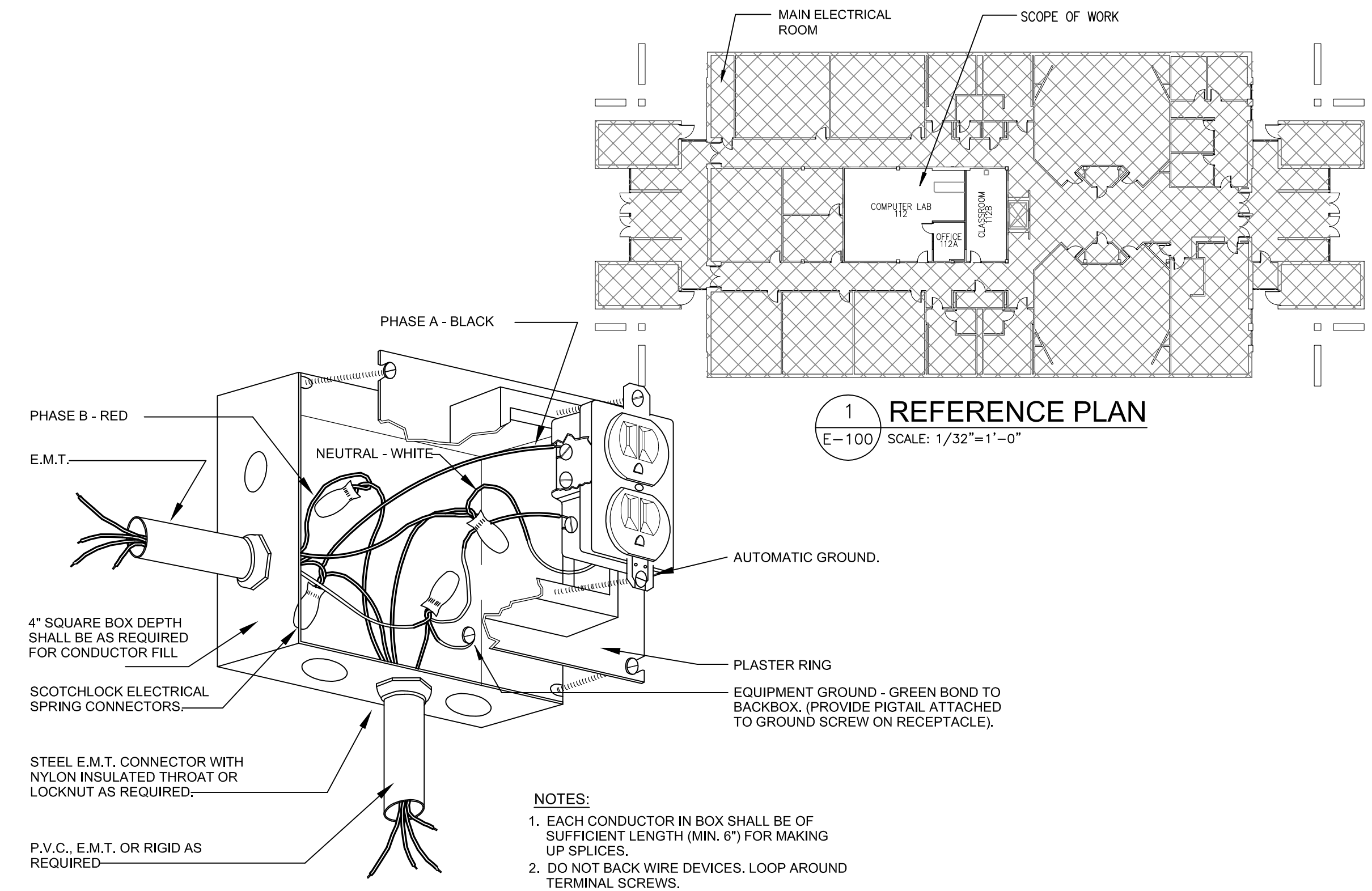
- EXISTING RECEPTACLES SHALL BE REMOVED. CONTRACTOR SHALL ABANDON RECEPTACLE, PATCH WALL AND PAINT TO MATCH EXISTING WALL IN SPACE.
- EXISTING SWITCHES SHALL BE REMOVED AND RELOCATED AS SHOWN ON NEW WORK PLAN. CONTRACTOR SHALL PATCH HOLE OF EXISTING SWITCH LOCATION AND PAINT TO MATCH SPACE.
- BLANK FACEPLATE SHALL BE REMOVED. CONTRACTOR SHALL PATCH HOLE OF THE EXISTING BLANK FACEPLATE LOCATION AND PAINT TO MATCH SPACE.
- EXISTING POWER COLUMNS SHALL REMAIN UNLESS OTHERWISE NOTED.
- REMOVE EXISTING LIGHT FIXTURE, REFER TO 4/E-100 FOR NEW LIGHTING LAYOUT OF THE SPACE.
- CONTRACTOR SHALL CONNECT TO EXISTING PANEL LOCATED IN MAIN ELECTRICAL ROOM. CONTRACTOR SHALL ADD ONE (1) 20 AMP SINGLE(1) POLE BREAKER TO FEED NEW 120 VOLT RECEPTACLE CIRCUIT. CONTRACTOR SHALL ADJUST PANEL SCHEDULE TO REFLECT ADDITIONAL BREAKERS.
- REFER TO DETAIL 1/E-200 FOR ELEVATION OF SHORT THROW PROJECTOR AND TEACHER'S DESK.
- EXISTING DATA RECEPTACLE SHALL BE REMOVED. CONTRACTOR SHALL ABANDON RECEPTACLE, PATCH WALL AND PAINT TO MATCH EXISTING WALL IN SPACE.
- CONTRACTOR SHALL CONNECT TO EXISTING LIGHTING CIRCUIT SERVING THIS SPACE.
- CONTRACTOR SHALL PROVIDE POWER FOR RECEPTACLE WITH EXISTING CIRCUIT FEEDING WIREMOLD.
- REMOVE ALL EXISTING FIRE ALARMS AND OCCUPANCY SENSORS IN THIS SPACE. REFER TO NEW WORK PLANS FOR NEW LOCATIONS.
- EXISTING WIREMOLD SHALL REMAIN.

DEMOLITION NOTES:

- THE CONTRACTOR SHALL FIELD VERIFY EXACT ROUTINGS OF EXISTING RACEWAYS BEFORE STARTING ANY WORK AND NOTIFY THE ARCHITECT OF ANY KNOWN DISCREPANCIES.
- THE CONTRACTOR SHALL UTILIZE AS MUCH OF THE EXISTING OUTLETS AND RACEWAYS AS POSSIBLE TO RECONNECT EXISTING AND NEW CIRCUITS.
- THE CONTRACTOR SHALL REMOVE EXISTING CONDUCTORS AND INSTALL NEW CONDUCTORS AS SHOWN OR AS REQUIRED TO COMPLETE REVISED CIRCUITS AND TO CONFORM TO N.E.C.
- ALL EXISTING EQUIPMENT REMOVED FROM SERVICE AND NOT INTENDED FOR REUSE SHALL REMAIN THE PROPERTY OF OWNER AND SHALL BE STORED OR DISPOSED OF AS DIRECTED BY THE OWNER.
- MAINTAIN SERVICE TO ALL EXISTING CIRCUITS THAT ARE NOT SCHEDULED FROM REMOVAL.
- PROVIDE BLANK COVERS ON ALL JUNCTION BOXES AND OUTLET BOXES NOT INTENDED FOR REUSE.
- EXISTING CEILING, WALLS AND FLOORS DISTURBED OR DISFIGURED BY THE ELECTRICAL RENOVATIONS SHALL BE PATCHED, MENDED OR REPLACED BY TRADES ACTIVELY PARTICIPATING IN THIS TYPE OF WORK. RESPONSIBILITY FOR REPAIRS SHALL BE COORDINATED BETWEEN GENERAL CONTRACTOR AND ELECTRICAL SUBCONTRACTOR.
- EXISTING EQUIPMENT SHOWN ON ARCHITECTURAL, MECHANICAL PLUMBING AND ELECTRICAL DRAWINGS THAT WILL REMAIN SHALL HAVE SERVICE MAINTAINED OR RECONNECTED TO EXISTING OR NEW PANELBOARD AS NECESSARY.
- ALL EXISTING LIGHT FIXTURES REMOVED FROM AREAS WHERE NEW CEILINGS AND LIGHT FIXTURES ARE TO BE INSTALLED SHALL REMAIN THE PROPERTY OF THE OWNER. (SEE NOTE #4)
- TO MAINTAIN SERVICE, TO EXTEND, OR TO RECONNECT CIRCUITS WHERE CONDUIT CAN NOT BE CONCEALED, SURFACE METAL RACEWAY (WIREMOLD) SHALL BE USED. VERIFY WITH ARCHITECT PRIOR TO INSTALLATION.
- ELECTRICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS FOR DOOR SWINGS, CABINETS, COUNTERS AND OTHER BUILT-IN EQUIPMENT. CONDITIONS INDICATED ON ARCHITECTURAL DRAWINGS SHALL GOVERN.
- COORDINATE ELECTRICAL WITH ARCHITECTURAL DETAILS, FLOOR PLANS, ELEVATIONS, STRUCTURAL MECHANICAL AND PLUMBING DRAWINGS. PROVIDE FITTINGS, JUNCTION BOXES AND ACCESSORIES TO MEET CONDITIONS.
- DEVICES LOCATED AT COUNTERS SHALL BE MOUNTED ABOVE COUNTER TOPS UNLESS KNEE SPACE IS PROVIDED WITH DRILLED HOLE IN COUNTER TOP FOR SERVICE CORDS. VERIFY WITH ARCHITECT.
- ELECTRICAL CONTRACTOR SHALL PROVIDE PLUGS OR RECEPTACLES TO MATCH DEVICES FURNISHED WITH OWNER FURNISHED EQUIPMENT AND EQUIPMENT FURNISHED BY OTHERS. (VERIFY)
- WHERE CONDUIT RUNS ARE SHOWN EXPOSED IN AN AREA WITHOUT CEILING, ANY CONDUIT RUN GOING DOWN IN A WALL SHALL BE CONCEALED.
- WHERE EXISTING CONCRETE FLOOR SLAB IS SAW CUT AND CONCRETE IS CHIPPED OUT FOR ELECTRICAL UNDER FLOOR EQUIPMENT ANY ELECTRICAL CONDUIT, WIRING AND PLUMBING PIPING THAT IS DAMAGED SHALL BE PATCHED, MENDED OR REPLACED BY TRADES ACTIVELY PARTICIPATING IN THIS TYPE OF WORK. RESPONSIBILITY FOR REPAIRS SHALL BE COORDINATED BETWEEN GENERAL CONTRACTOR AND ELECTRICAL SUBCONTRACTOR.
- CONTRACTOR SHALL SURVEY EXISTING SPACES FOR ABANDONED SYSTEMS CABLING CURRENTLY LOCATED ABOVE CEILING. CONTRACTOR TO VERIFY IF CABLING IS OPERABLE AND IN USE. ANY CABLE NOT IN USE SHALL BE REMOVED IN ITS ENTIRETY. ANY CABLE IN USE SHALL REMAIN AND SHALL BE SUPPORTED ACCORDINGLY TO MEET NEC. CONTRACTOR TO PROVIDE HANGERS AND J-HOOKS TO SUPPORT EXPOSED CABLING. ALL CABLING SHALL BE BUNDLED TOGETHER WITH PLENUM RATED TIE WRAPS AND SUPPORTED FROM STRUCTURE ABOVE. SUPPORT OF CABLING FROM CEILING HANGER WIRE, CONDUIT, SPRINKLER PIPE, DUCT WORK, ETC. WILL NOT BE ACCEPTABLE.
- CONTRACTOR TO SURVEY EXISTING AREAS ABOVE CEILING FOR EXISTING ELECTRICAL CONDUIT AND JUNCTION BOXES WHICH ARE TO REMAIN. ANY CONDUIT OR JUNCTION BOXES NOT CURRENTLY IN COMPLIANCE WITH NEC SHALL BE SUPPORTED ACCORDINGLY TO MEET CODE. CONTRACTOR TO PROVIDE ADDITIONAL HANGERS TO SUPPORT AS NECESSARY.
- CONTRACTOR TO REVIEW EXISTING CONDUIT PENETRATIONS OF RATED WALL AT RENOVATED SPACES. CONTRACTOR TO PROPERLY FIRE STOP ANY EXISTING CONDUIT PENETRATIONS OF RATED WALLS IN ORDER TO MAINTAIN INTEGRITY OF RATED WALL.

GENERAL NOTES:

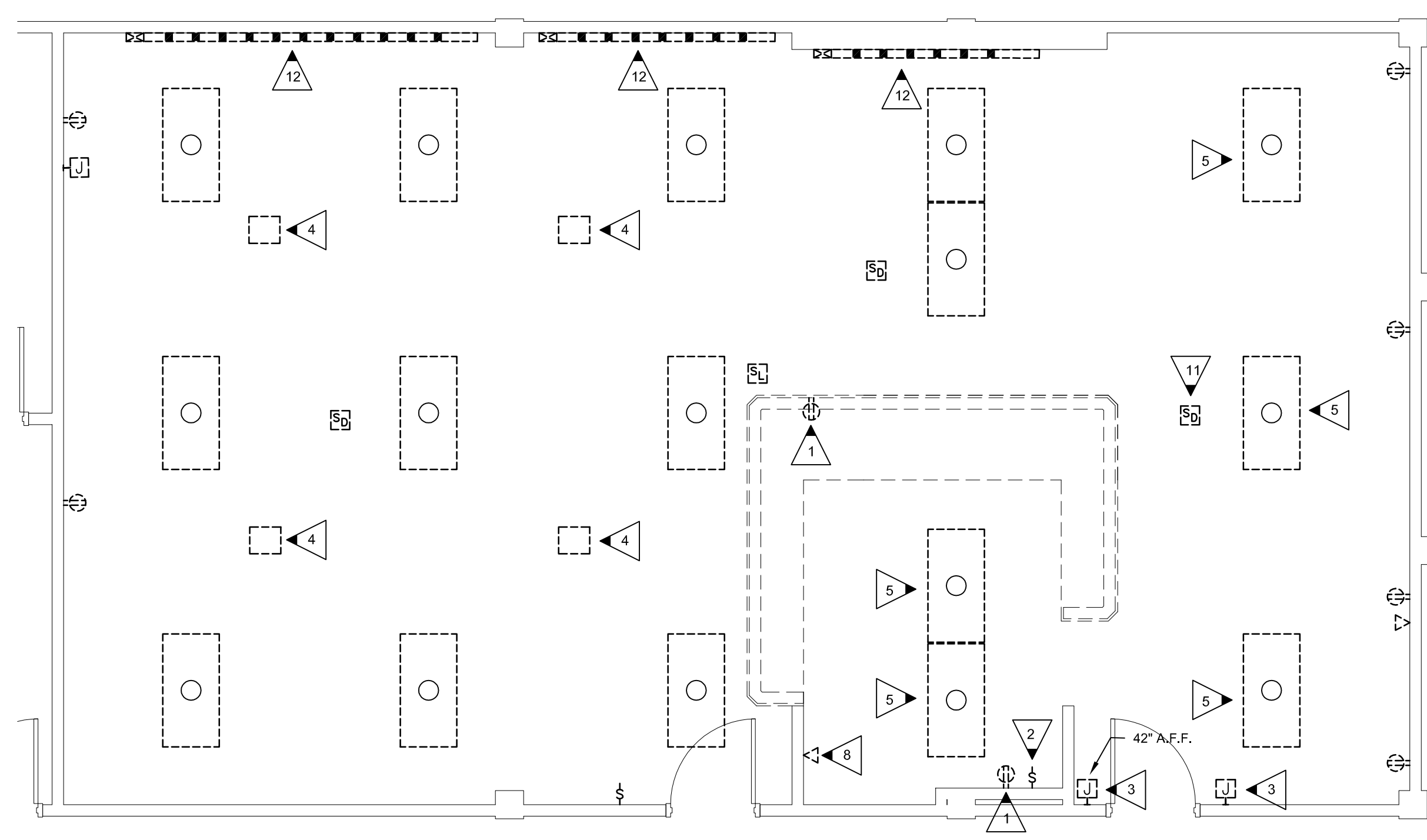
- DO NOT SCALE DRAWINGS TO LOCATE EQUIPMENT OR OUTLETS.
- MOUNTING HEIGHTS AS INDICATED ON THE DRAWINGS SHALL BE FROM THE FINISHED FLOOR TO THE CENTER LINE OF THE OUTLET BOX.
- THE ELECTRICAL DRAWINGS ARE ONLY A PART OF THE CONTRACT DOCUMENTS. ALL OF THE DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED FOR THEIR INTERRELATIONSHIP AND REQUIRED COORDINATION BETWEEN DISCIPLINES.
- 112 SYMBOL INDICATING ROOM OR SPACE NUMBER.
- IN AREAS WHERE COMPUTER OUTLETS AND TELEPHONE OUTLETS ARE LOCATED BENEATH A WINDOW, AND WINDOW PREVENTS THE ROUTING OF CONDUIT UP TO CEILING SPACE, CONDUIT SHALL BE ROUTED TO A WALL WHICH ALLOWS CONDUIT TO RISE UP TO CEILING SPACE.
- FLUSH RECESSED OUTLET BOXES INSTALLED IN NON-COMBUSTIBLE MATERIAL SHALL BE INSTALLED SUCH THAT FRONT EDGE OF BOX WILL NOT BE SET BACK OF THE FINISHED SURFACE MORE THAN 1/4". FLUSH RECESSED OUTLET BOXES INSTALLED IN COMBUSTIBLE MATERIAL SHALL BE INSTALLED SUCH THAT FRONT EDGE OF BOX IS FLUSH WITH THE THE FINISHED SURFACE. COMPLY WITH N.E.C. 314-20. SUPPORT OF OUTLET BOX BY RECEPTACLE AND COVERPLATE IS NOT ACCEPTABLE.
- ALL CONDUIT, OUTLET BOXES, AND LOW VOLTAGE CABLING SHALL BE APPROPRIATELY SUPPORTED THROUGHOUT THE PROJECT. SUPPORT OF THESE ITEMS BY CEILING GRID OR GRID SUPPORT WIRES IS NOT ACCEPTABLE.
- ALL RECEPTACLES LOCATED WITHIN 6'-0" TO THE EDGE SINK OR OTHER WATER SOURCE SHALL BE GFCI TYPE DEVICE IN ACCORDANCE WITH N.E.C. 210-8-A.7. COORDINATE LOCATIONS WITH ARCHITECTURAL AND PLUMBING DRAWINGS PRIOR TO ROUGH-IN.
- PROVIDE NEW FIRE ALARM DEVICES AS SHOWN AND CONNECT TO EXISTING SYSTEM.



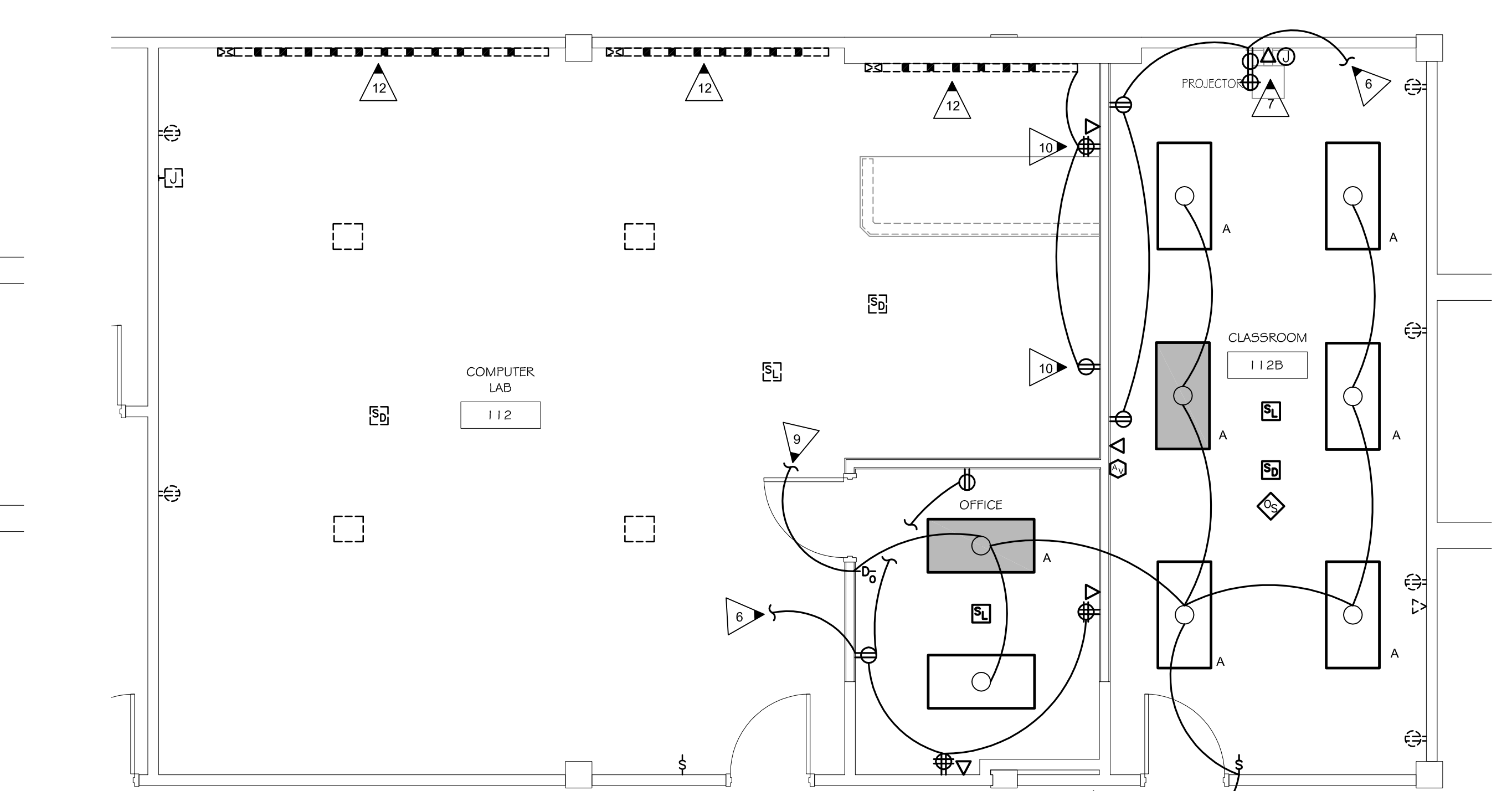
2 DETAIL - RECEPTACLE CONNECTION
E-100 SCALE: NONE

| TYPE | DESCRIPTION | MANUFACTURER |
|------------------------|--|--|
| A | L.E.D. FIXTURE, 2' x 4' RECESSED SPECIFICATION GRADE GRID TYPE TROFFER WITH SATIN WHITE LENS. (38.9 INPUT WATTS) LUMEN OUTPUT: 4000 LUMENS AT 3500°K DRIVER: MULTI VOLT | LITHONIA "20TL" SERIES METALUX COLUMBIA PHILIPS |
| EMERGENCY BATTERY PACK | 1. RECESSED AND SURFACE MOUNTED. EMERGENCY TROFFER FIXTURES SHALL BE PROVIDED WITH BATTERY PACK UNIT INSTALLED IN BALLAST COMPARTMENT AND SHALL PROVIDE MINIMUM 1400 LUMEN OUTPUT FROM FOR A MINIMUM OF 90 MINUTES AND SHALL BE PROVIDED INDICATOR LIGHT AND TEST SWITCH AT BALLAST COMPARTMENT. | 10TA SILTRON LITHONIA LITHONIA CHLORIDE SIDE-LITE EMERGLITE LIGHTGUARD LITE-ALARMS |

FIXTURE SCHEDULE



3 ELECTRICAL DEMOLITION PLAN
E-100 SCALE: 1/4"=1'-0"



4 NEW WORK PLAN
E-100 SCALE: 1/4"=1'-0"

NOTE: ALL ITEMS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

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471 University Parkway
Aiken, SC 29801
GMC # 160026
USC # CP50003059
ISSUE FOR BID

ISSUE FOR BID 06/09/16

drawn by: MJ
checked by: DA
approved by: ITB

LEGEND AND LIGHTING, SYSTEMS, AND POWER PLAN - OFFICE AREA, LAB AND CLASSROOM

E-100 sheet of

EDC ELECTRICAL DESIGN CONSULTANTS, INC.
1201 BROAD ST., SUITE 1-A
AUGUSTA, GA 30901
PH: (706) 724-3551
FAX: (706) 724-8507
EDC PROJECT #: 16061

SOUTH CAROLINA
CERTIFICATE OF AUTHORIZATION
ELECTRICAL DESIGN CONSULTANTS, INC.
No. C01139

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
06-09-16

GOODWYN MILLS CAWOOD
101 East Washington Street, Suite 200 | Greenville, SC 29601
Tel 864.527.04
GMCNETWORK.COM

SPECIFICATIONS:

SECTION 16000 - GENERAL
1.01 WORK INCLUDED

- A. THIS DIVISION OF THE SPECIFICATIONS (16000) COVERS THE COMPLETE ELECTRICAL SYSTEM FOR ALL WORK SHOWN ON THE DRAWINGS AS SPECIFIED HEREIN...
B. INCLUDE IN THE ELECTRICAL WORK ALL THE NECESSARY SUPERVISION AND THE RESULT OF ALL COORDINATING INFORMATION TO ANY OTHER TRADES WHO ARE SUPPLYING WORK TO ACCOMMODATE THE ELECTRICAL INSTALLATIONS.
C. THE DRAWINGS FOR ELECTRICAL WORK UTILIZE SYMBOLS AND SCHEMATIC DIAGRAMS WHICH HAVE NO DIMENSIONAL SIGNIFICANCE...
D. REVIEW ARCHITECTURAL DRAWINGS FOR DOOR SWINGS, CABINETS, COUNTERS, MOLDINGS AND BUILT-IN EQUIPMENT...
E. SUBMIT FOR APPROVAL BY THE ARCHITECT ALL MATERIALS AND EQUIPMENT TO BE INCORPORATED IN THE ELECTRICAL WORK.
F. SUBMIT ONLY SHOP DRAWINGS WHICH COMPLY WITH THE CONTRACT DOCUMENTS.
G. MARK EACH INDIVIDUAL SUBMITTAL ITEM TO SHOW SPECIFICATION SECTION WHICH PERTAINS TO THE ITEM.
H. WHEN SHOP DRAWINGS ARE RECEIVED, SOME ERRORS MAY BE DETECTED BUT OTHERS MAY BE OVERLOOKED...
I. ONE COMPLETE SET OF ELECTRICAL DRAWINGS SHALL BE RESERVED FOR AS-BUILT DRAWINGS...
K. PROVIDE AT THE TIME OF FINAL INSPECTION THREE SETS OF MAINTENANCE AND OPERATING INSTRUCTIONS FOR LIGHTING AND POWER PANELBOARDS, FUSES, WIRING DEVICES

SECTION 16030 - MANUFACTURERS

- A. ACCEPTABLE MANUFACTURERS ARE: GENERAL, SOUTHWIRE, ESSEX OR APPROVED EQUAL OVER THE ELECTRICAL CONSTRUCTION WORK AND THE PROJECT.
P. ALL WIRING SHALL BE MANUFACTURED IN THE UNITED STATES.
O. RATINGS AND SIZES:
a. SHALL BE NOT LESS THAN INDICATED ON THE DRAWINGS AND NOT LESS THAN REQUIRED BY THE NEC.
b. MINIMUM SIZE SHALL BE NO. 12 AWG COPPER PROVIDED THE MAXIMUM VOLTAGE DROP IS IN THE CONTROL CIRCUITS AND WILL NOT ADVERSELY AFFECT THE OPERATION OF THE CONTROLS.
R. CONDUCTORS AND GROUND WIRES:
a. SHALL BE COPPER.
b. SIZE NO. 8 AWG AND LARGER SHALL BE STRANDED.
c. SIZE NO. 10 AWG AND SMALLER SHALL BE SOLID.

SECTION 16040 - OUTLETS

- A. BOXES SHALL BE GALVANIZED PRESSED SHEET STEEL FOR ALL CONCEALED WORK.
B. WHERE CONDUIT RUNS ARE EXPOSED, OUTLET SHALL BE OF THE CAST METAL TYPE.
C. FOR CONCEALED WORK EACH BOX SHALL BE PROVIDED WITH A SQUARE CORNERED PLASTER RING.
D. EACH SURFACE LIGHTING FIXTURE, RECEPTACLE AND SWITCH SHALL BE PROVIDED WITH FLUSH MOUNTED OUTLET BOX.
E. BOXES SHALL BE FOR THE SERVICE AND THE TYPE OF OUTLET AND SHALL NOT BE LESS THAN 4" SQUARE AND 1-1/2" DEEP EXCEPT WHERE OTHERWISE SPECIFIED.
F. RECEPTACLE SERVICING WATER COOLERS SHALL BE LOCATED WITHIN COOLER HOUSING OR AS CLOSE TO BOTTOM OF HOUSING AS POSSIBLE.
G. RECEPTACLES SERVICING WATER COOLERS SHALL BE LOCATED WITHIN COOLER HOUSING OR AS CLOSE TO BOTTOM OF HOUSING AS POSSIBLE.
H. RECEPTACLES SERVICING WATER COOLERS SHALL BE LOCATED WITHIN COOLER HOUSING OR AS CLOSE TO BOTTOM OF HOUSING AS POSSIBLE.
I. RECEPTACLES SERVICING WATER COOLERS SHALL BE LOCATED WITHIN COOLER HOUSING OR AS CLOSE TO BOTTOM OF HOUSING AS POSSIBLE.

SECTION 16050 - LIGHTING AND POWER PANELBOARDS

- A. COMPLETE PANELBOARD SHOP DRAWINGS SHALL BE SUBMITTED, LISTING AS A MINIMUM THE FOLLOWING ITEMS: VOLTAGE RATING, BUS ASSEMBLY RATING, MAIN BREAKER RATING BY CAPACITY, NUMBER OF POLES AND INTERRUPTING RATING IN RMS SYMMETRICAL AMPERES, SURFACE OR FLUSH MOUNTING, LISTING OF BRANCH BREAKERS BY CAPACITY, NUMBER OF POLES AND INTERRUPTING RATING IN RMS SYMMETRICAL AMPERES, SCHEDULE SIMILAR TO THAT SHOWN ON THE DRAWINGS.
B. FOR THE PURPOSE OF SELECTING QUALITY AND TYPES OF PANELS, EQUIPMENT AS MANUFACTURED BY SQUARE "D" COMPANY HAS BEEN SPECIFIED.
C. FINISH AND INSTALL CIRCUIT BREAKER LIGHTING AND POWER PANELBOARDS AS INDICATED IN THE PANELBOARD SCHEDULE AND WHERE SHOWN ON THE PLANS.
D. CIRCUIT BREAKERS SHALL BE HACR RATED, QUICK-MAKE, QUICK-BREAK, THERMAL-MAGNETIC, TRIP-INDICATING, AND HAVE COMMON TRIP ON ALL MULTIPOLAR BREAKERS.
E. PANEL FRONT SHALL BE PROVIDED WITH A CONTINUOUS PIANO HINGE ON ONE SIDE.
F. A STEEL CIRCUIT DIRECTORY FRAME PERMANENTLY ATTACHED (BOTH WELDED) AT FACTORY (NOT GLUED), AND CARD WITH A CLEAR PLASTIC COVERING SHALL BE PROVIDED ON THE INSIDE OF THE DOOR.

SECTION 16060 - LIGHTING FIXTURES AND LAMPS

- A. LIGHTING FIXTURES SHALL BE SELECTED FROM THOSE FIXTURES INCLUDED IN THE FIXTURE SCHEDULE AS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS.
B. LAMP MANUFACTURER: SYLVANIA, PHILLIPS, GENERAL ELECTRIC, E.T.E.
C. FIXTURES SHALL BE SELECTED FROM THE FIXTURE SCHEDULE NOT ONLY BY CATALOG NUMBER BUT WITH CONSIDERATION TO MOUNTING, NUMBER AND TYPES OF LAMPS, AND REFERENCE NOTES AS CONTAINED IN THE FIXTURE SCHEDULE AND AS NOTED ON THE DRAWINGS AND IN THE SPECIFICATIONS.
D. SUPPORT OF LIGHTING FIXTURES SHALL BE THE RESPONSIBILITY OF THE FIXTURE INSTALLER AND SHALL BE AS FOLLOWS:
a. RECESSED FIXTURE FLUSH MOUNTED IN EXPOSED TEE, SUSPENDED ACoustICAL TILE CEILINGS SHALL BE OF THE LAYAN TYPE AND SHALL BE SUPPORTED AT DIAGONAL CORNERS OF THE FIXTURE, UTILIZING TWO (2) #14 GAUGE STEEL WIRES ATTACHED TO THE BAR JOIST OR OVERHEAD STRUCTURE.
E. LIGHTING FIXTURES SHALL BE LOCATED AS SHOWN ON THE LIGHTING PLAN.
F. UPON COMPLETION OF INSTALLATION, LIGHTING FIXTURES AND EQUIPMENT SHALL BE IN FIRST CLASS OPERATING ORDER.

SECTION 16065 - OCCUPANCY SENSORS

- A. FOR THE PURPOSE OF SELECTING QUALITY AND TYPES OF SENSORS, EQUIPMENT AS MANUFACTURED BY "THE WATT STOPPER" HAS BEEN SPECIFIED.
B. PRODUCTS SUPPLIED SHALL BE FROM A SINGLE MANUFACTURER THAT HAS BEEN CONTINUOUSLY INVOLVED IN THE MANUFACTURING OF OCCUPANCY SENSORS FOR A MINIMUM OF FIVE (5) YEARS.
C. ALL COMPONENTS SHALL BE UL LISTED, OFFER A FIVE (5) YEAR WARRANTY AND MEET ALL STATE AND LOCAL APPLICABLE CODE REQUIREMENTS.
D. THE OBJECTIVE OF THIS SECTION IS TO ENSURE THE PROPER INSTALLATION OF THE OCCUPANCY SENSOR BASED LIGHTING CONTROL SYSTEM SO THAT LIGHTING IS TURNED OFF AUTOMATICALLY AFTER REASONABLE TIME DELAY WHEN A ROOM OR AREA IS VACATED.
E. THE OCCUPANCY SENSOR BASED LIGHTING CONTROL SHALL ACCOMMODATE ALL CONDITIONS OF SPACE UTILIZATION AND ALL IRREGULAR WORKS HOURS AND HABITS.
F. CONTRACTOR SHALL WARRANT ALL EQUIPMENT FURNISHED IN ACCORDANCE TO THIS SPECIFICATION TO BE UN-DAMAGED, FREE OF DEFECTS IN MATERIALS AND WORKMANSHIP, AND IN CONFORMANCE WITH THE SPECIFICATIONS.

SECTION 16020 - RACEWAYS

- A. ACCEPTABLE MANUFACTURERS OF RIGID STEEL AND ELECTRICAL METALLIC TUBING CONDUIT ARE: ALLIED TUBE AND CONDUIT CO., WHEATLAND TUBE CO., REPUBLIC CONDUIT

SECTION 16100 - PULL BOXES AND JUNCTION BOXES AND FITTINGS

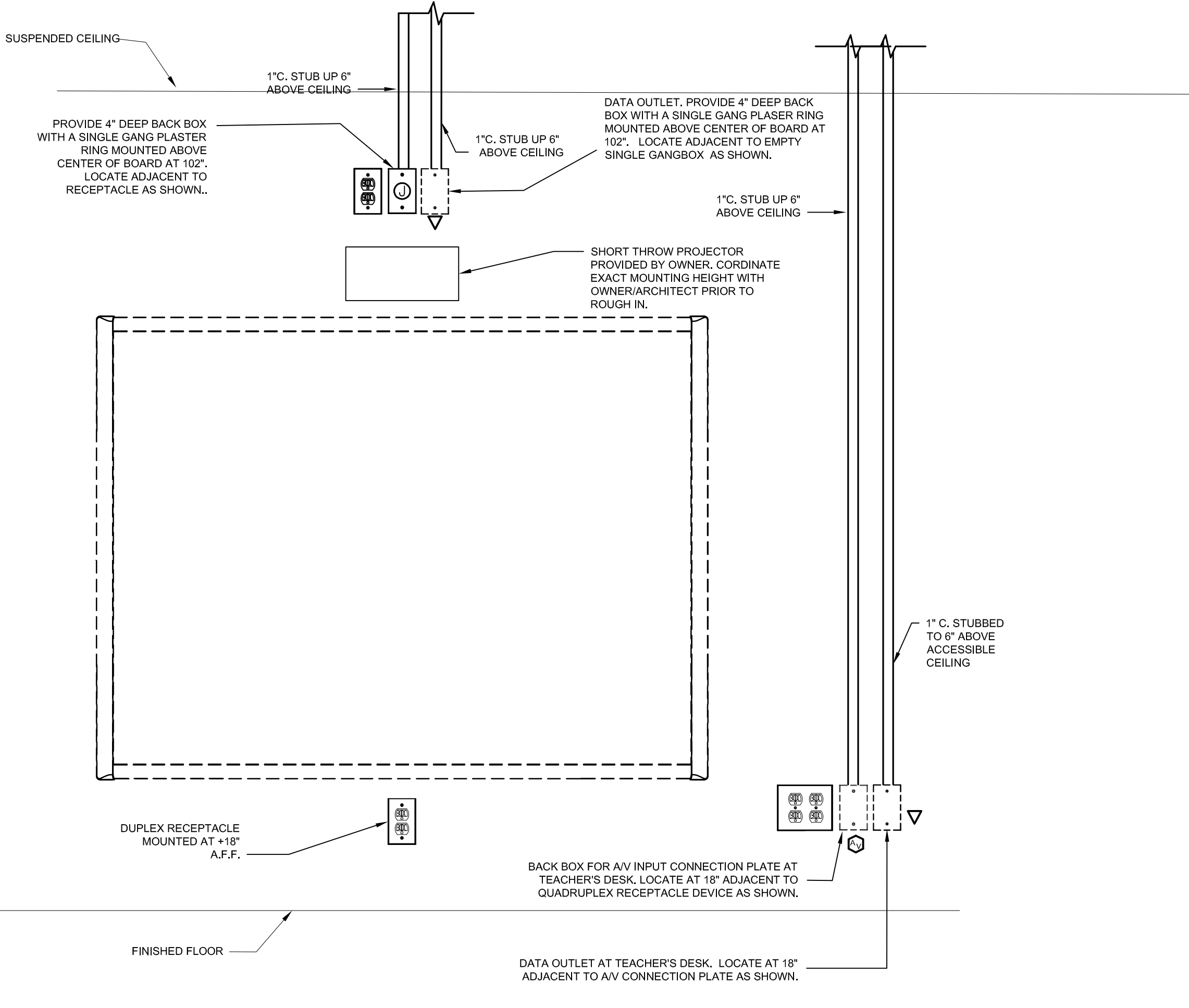
- H. BOXES SHALL BE PROVIDED IN THE RACEWAY SYSTEMS WHEREVER REQUIRED FOR THE PULLING OF WIRES AND THE MAKING OF CONNECTIONS.
I. PULL BOXES OF NOT LESS THAN THE MINIMUM SIZE REQUIRED BY THE NATIONAL ELECTRICAL CODE ARTICLE 370 SHALL BE CONSTRUCTED OF CODE-GAUGE GALVANIZED SHEET STEEL.
J. WHERE THE VOLUME ALLOWED PER CONDUCTOR EXCEEDS THAT ALLOWED IN TABLE 370(B) OF THE NEC FOR THE MINIMUM SIZE OUTLET SPECIFIED, A LARGER SIZE OUTLET BOX SHALL BE USED AND SHALL BE SIZED IN ACCORDANCE WITH THE TABLE NOTED ABOVE.
K. ALL JUNCTION BOX COVER PLATES SHALL BE LABELED IDENTIFYING THE PLASTER DUST, PLASTER READY MIX JOINT COMPOUND AND OR ANY OTHER DEBRIS.
L. ALL JUNCTION BOX COVER PLATES SHALL BE LABELED IDENTIFYING THE PLASTER DUST, PLASTER READY MIX JOINT COMPOUND AND OR ANY OTHER DEBRIS.
M. ALL JUNCTION BOXES LARGER THAN 4" x 4" FLUSH MOUNTED IN WALL SHALL HAVE OVERLAPPING COVER PLATE TO COVER ROUGH-IN OPENINGS.

SECTION 16110 - GROUNDING

- A. THE WORK REQUIRED UNDER THIS SECTION OF THE SPECIFICATIONS CONSISTS OF FURNISHING, INSTALLATION AND CONNECTIONS OF THE BUILDING SECONDARY GROUNDING SYSTEMS.
B. FOR THE PURPOSE OF SELECTING QUALITY AND TYPE OF DEVICE, EQUIPMENT MANUFACTURED BY HUBBELL HAS BEEN SPECIFIED.
C. RECEPTACLE: ALL RECEPTACLES SHALL BE OF THE GROUNDING TYPE, OF THE CONFIGURATION SHOWN ON THE DRAWINGS AND SHALL BE FLUSH WALL MOUNTING TYPE.
D. DEVICES PLATES: PLATES SHALL BE FURNISHED FOR ALL DEVICES AND OUTLETS INDICATED ON THE DRAWINGS (TELEPHONE, COMPUTER, TV, ETC.).
E. FLUSH MOUNTED PLATES: REVELED TYPE WITH SMOOTH ROLLED OUTER EDGE, STAINLESS STEEL TYPE 302 WITH BRUSHED FINISH.
F. SURFACE BOX PLATES: BEVELED, GALVANIZED STEEL, PRESSURE FORMED FOR SMOOTH EDGE TO CONDUIT SIZES INDICATED ON THE DRAWINGS AND FOR COPPER CONDUCTORS.

SECTION 16200 - CONSTRUCTION REVIEWS/INSPECTION AND TESTING

- A. THE ARCHITECT OR HIS REPRESENTATIVE SHALL OBSERVE AND REVIEW THE INSTALLATION OF ALL ELECTRICAL SYSTEMS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN.
B. BEFORE COVERING OR CONCEALING ANY CONDUIT BELOW GRADE OR SLAB, IN WALL OR ABOVE CEILING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT SO THAT HE CAN REVIEW THE INSTALLATION.
C. AT THE TIME OF THE CONTRACTOR'S FINAL INSPECTION, ALL SYSTEMS SHALL BE CHECKED AND TESTED FOR PROPER INSTALLATION AND OPERATION BY THE CONTRACTOR IN THE PRESENCE OF THE ARCHITECT OR HIS REPRESENTATIVE.
D. THE CONTRACTOR SHALL FURNISH THE PERSONNEL, TOOLS AND EQUIPMENT REQUIRED TO INSPECT AND TEST ALL SYSTEMS.
E. FOLLOWING IS A LIST OF ITEMS THAT THE CONTRACTOR MUST DEMONSTRATE TO THE ARCHITECT OR HIS REPRESENTATIVE AS COMPLYING WITH THE PLANS AND SPECIFICATIONS.
a. DEMONSTRATE THAT ALL PANELS HAVE BREAKERS AS SPECIFIED, GROUND BAR, COPPER BUS, TYPED DIRECTORY FOR CIRCUIT IDENTIFICATION AND THAT THEY ARE FREE OF RASH.
b. DEMONSTRATE THAT ALL CONDUITS ARE SUPPORTED AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
c. DEMONSTRATE THAT ALL OUTLET BOXES ABOVE OR ON THE CEILING ARE SUPPORTED AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
d. DEMONSTRATE THAT OUTLET BOXES IN WALL OR CEILINGS OF COMBUSTIBLE MATERIALS ARE FLUSH WITH SURFACE OF WALL OR CEILING, AND THAT OUTLET BOXES IN WALLS OR CEILINGS OF NON-COMBUSTIBLE MATERIALS ARE SO INSTALLED THAT THE FRONT EDGE OF THE BOX OR PLASTER RING IS NOT SET BACK MORE THAN 1/4".
e. DEMONSTRATE THAT OUTLET BOXES IN WALL ARE SECURE.
f. DEMONSTRATE THAT ALL DEVICES ARE PROPERLY SECURED TO BOXES, THAT DEVICE PLATES ARE PROPERLY ALIGNED AND ARE NOT BEING USED TO SECURE DEVICE.
g. UTILIZING A WOODEN NO. 1750 TESTING DEVICE, DEMONSTRATE THAT ALL 120 VOLTS RECEPTACLES ARE PROPERLY CONNECTED.
h. DEMONSTRATE THAT ALL FIXTURES HAVE SPECIFIED LAMPS, BALLAST AND LENS, AND THAT THEY ARE SUPPORTED AS REQUIRED BY THE NATIONAL ELECTRICAL CODE OR AS CALLED FOR ON THE DRAWINGS OR IN THE SPECIFICATIONS.



1 TYPICAL CLASSROOM AUDIO/VISUAL DEVICE RISER
E-200 SCALE: NONE

NOTE: "N.I.C." ABOVE DENOTES DEVICES THAT ARE "NOT IN CONTRACT" AND PROVIDED UNDER SEPARATE CONTRACT. DIVISION 16 TO PROVIDE AND INSTALL ALL CONDUIT AND BACKBOXES FOR ALL DEVICES AS SHOWN.

- 1. COLD WATER PIPING SYSTEM
2. GROUND ROD SYSTEM
3. STRUCTURAL STEEL METAL BUILDING FRAME. SEE DETAIL ON DRAWINGS
4. LIGHTNING PROTECTION SYSTEM
5. MAIN RE-BAR IN FOUNDATION FOOTING
6. FIRE SPRINKLER PIPING
7. GAS PIPING

- J. GROUND THE NEUTRAL OF ALL DRY-TYPE TRANSFORMERS AS INDICATED ON THE DRAWINGS.
K. GROUNDING ELECTRODE CONNECTIONS TO STRUCTURAL STEEL, REINFORCING BARS, GROUND RODS, OR WHERE INDICATED ON THE DRAWINGS SHALL BE WITH CHEMICAL EXOTHERMIC WELD CONNECTION DEVICES RECOMMENDED FOR THE PARTICULAR CONNECTION TYPE.
L. BONDING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
M. GROUNDING CONDUCTORS SHALL BE PROVIDED IN ALL BRANCH CIRCUIT RACEWAYS AND CABLES.
N. A GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL FLEXIBLE CONDUIT INSTALLATIONS.

SECTION 16120 - EQUIPMENT IDENTIFICATION

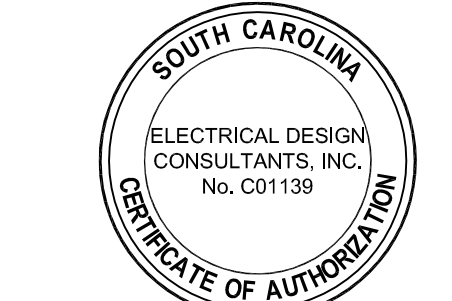
- A. LAMINATED PLASTIC PLATES WITH 3/16" HIGH WHITE LETTER ETCHED ON BLACK BACKGROUND.
B. PLATES SHALL BE PERMANENTLY MOUNTED UTILIZING POP RIMETS OR A PERMANENT MASTHEAD KEY.
C. PAINTED, STENCILED OR INDENTED TAPE IDENTIFICATION IS NOT ACCEPTABLE.
D. ALL ELECTRICAL APPARATUS SUCH AS WIRING TROUGHS, PANELBOARDS, INDIVIDUAL CIRCUIT BREAKERS, TRANSFORMERS AND DISCONNECT SWITCHES SHALL HAVE LAMINATED PLASTIC IDENTIFICATION PLATES.
E. A "STEEL" CIRCUIT DIRECTORY FRAME PERMANENTLY ATTACHED AT FACTORY (NOT GLUED), AND A DIRECTORY CARD WITH A PLASTIC COVERING SHALL BE PROVIDED ON THE INSIDE OF EACH PANEL DOOR.

SECTION 16130 - DATA OR VOICE CONDUIT AND OUTLET SYSTEM

- A. PROVIDE A COMPLETE SYSTEM OF CONDUITS AND OUTLET BOXES FOR DATA AND VOICE WIRING.
B. ALL CONDUIT AND OUTLET BOXES SHALL BE FOR DATA AND VOICE CABLE ONLY.
C. LOCATION OF OUTLETS SHALL BE AS SHOWN ON THE DRAWINGS.
D. HEIGHT OF WALL OUTLETS SHALL BE AS NOTED ON THE DRAWINGS.
E. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
F. PROVIDE 302 JUMBO STAINLESS STEEL BLANK WALL PLATES FOR ALL OUTLETS NOT CABLED.

SECTION 16200 - CONSTRUCTION REVIEWS/INSPECTION AND TESTING

- A. THE ARCHITECT OR HIS REPRESENTATIVE SHALL OBSERVE AND REVIEW THE INSTALLATION OF ALL ELECTRICAL SYSTEMS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN.
B. BEFORE COVERING OR CONCEALING ANY CONDUIT BELOW GRADE OR SLAB, IN WALL OR ABOVE CEILING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT SO THAT HE CAN REVIEW THE INSTALLATION.
C. AT THE TIME OF THE CONTRACTOR'S FINAL INSPECTION, ALL SYSTEMS SHALL BE CHECKED AND TESTED FOR PROPER INSTALLATION AND OPERATION BY THE CONTRACTOR IN THE PRESENCE OF THE ARCHITECT OR HIS REPRESENTATIVE.
D. THE CONTRACTOR SHALL FURNISH THE PERSONNEL, TOOLS AND EQUIPMENT REQUIRED TO INSPECT AND TEST ALL SYSTEMS.
E. FOLLOWING IS A LIST OF ITEMS THAT THE CONTRACTOR MUST DEMONSTRATE TO THE ARCHITECT OR HIS REPRESENTATIVE AS COMPLYING WITH THE PLANS AND SPECIFICATIONS.
a. DEMONSTRATE THAT ALL PANELS HAVE BREAKERS AS SPECIFIED, GROUND BAR, COPPER BUS, TYPED DIRECTORY FOR CIRCUIT IDENTIFICATION AND THAT THEY ARE FREE OF RASH.
b. DEMONSTRATE THAT ALL CONDUITS ARE SUPPORTED AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
c. DEMONSTRATE THAT ALL OUTLET BOXES ABOVE OR ON THE CEILING ARE SUPPORTED AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
d. DEMONSTRATE THAT OUTLET BOXES IN WALL OR CEILINGS OF COMBUSTIBLE MATERIALS ARE FLUSH WITH SURFACE OF WALL OR CEILING, AND THAT OUTLET BOXES IN WALLS OR CEILINGS OF NON-COMBUSTIBLE MATERIALS ARE SO INSTALLED THAT THE FRONT EDGE OF THE BOX OR PLASTER RING IS NOT SET BACK MORE THAN 1/4".
e. DEMONSTRATE THAT OUTLET BOXES IN WALL ARE SECURE.
f. DEMONSTRATE THAT ALL DEVICES ARE PROPERLY SECURED TO BOXES, THAT DEVICE PLATES ARE PROPERLY ALIGNED AND ARE NOT BEING USED TO SECURE DEVICE.
g. UTILIZING A WOODEN NO. 1750 TESTING DEVICE, DEMONSTRATE THAT ALL 120 VOLTS RECEPTACLES ARE PROPERLY CONNECTED.
h. DEMONSTRATE THAT ALL FIXTURES HAVE SPECIFIED LAMPS, BALLAST AND LENS, AND THAT THEY ARE SUPPORTED AS REQUIRED BY THE NATIONAL ELECTRICAL CODE OR AS CALLED FOR ON THE DRAWINGS OR IN THE SPECIFICATIONS.



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