





UPST FIRE SPRINKLER INSTALLATION FOR LIBRARY

STATE PROJECT NO.: H34-9545

150 GRAMLING DRIVE SPARTANBURG, SC 29303

DRAWING INDEX

DRAWING NO. TITLE

TITLE SHEET

BASEMENT FLOOR PLAN, NOTES, AND DETAIL FP101 FIRST FLOOR PLAN

FP102 SECOND FLOOR PLAN AND NOTES

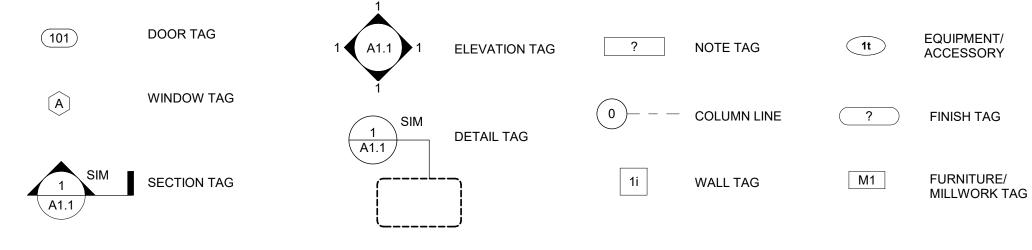
E001 ALTERNATE NO. 2: ELECTRICAL SYMBOLS, NOTES & ELECTRICAL PLANS

GENERAL NOTES

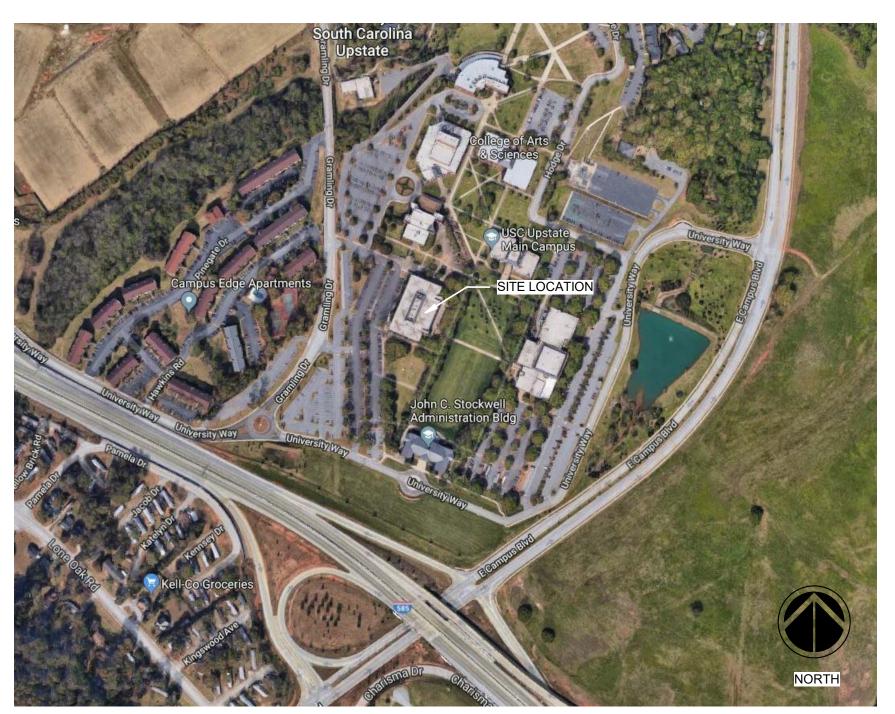
- THE TERM "WORK" AS USED IN THESE NOTES SHALL INCLUDE ALL PROVISIONS AS DRAWN OR SPECIFIED IN THESE DOCUMENTS AS WELL AS ALL OTHER

- FROM THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH THAT PART OF THE WORI
- CONTRACTOR SHALL BE FAMILIAR WITH PROVISIONS OF ALL APPLICABLE CODES AND SHALL ENSURE THE COMPLIANCE OF THE WORK WITH ALL LOCAL STATE AND FEDERAL CODES, TRADE STANDARDS AND MANUFACTURER'S RECOMMENDATIONS. IN THE EVENT OF CONFLICT BETWEEN LOCAL, STATE AND NATIONAL CODES, THE MORE STRINGENT SHALL GOVERN. BEFORE COMMENCING WORK NOT SHOWN IN DOCUMENTS, BUT REQUIRED TO ACHIEVE
- 8. THESE DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. SAFETY, COMPLIANCE WITH STATE AND FEDERAL REGULATIONS REGARDING SAFETY AND COMPLIANCE WITH REQUIREMENTS SPECIFIED IN THE OWNER/CONTRACTOR CONTRACT IS, AND SHALL BE, THE
- 9. CONTRACTOR SHALL PAY ALL TAXES, SECURE ALL PERMITS AND PAY ALL FEES INCURRED IN THE COMPLETION OF THE PROJECT.
- 10. THE CONTRACTOR SHALL UNCONDITIONALLY WARRANTY ALL MATERIALS, AND WORKMANSHIP FURNISHED OR INSTALLED BY HIM OR HIS SUBCONTRACTORS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE AND SHALL REPLACE ANY DEFECTIVE WORK WITHIN THAT PERIOD WITHOUT EXPENSE TO THE OWNER AND PAY FOR ALL DAMAGES TO OTHER PARTS OF THE BUILDING RESULTING FROM DEFECTIVE WORK OR ITS REPAIR. THE CONTRACTOR SHALL REPLACE DEFECTIVE WORK WITHIN A REASONABLE, AGREED UPON TIME FRAME, AFTER IT IS BROUGHT TO HIS ATTENTION.
- 11. THE CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS AND RUBBISH AND AT THE COMPLETION OF THE WORK THE CONTRACTOR SHALL REMOVE ALL RUBBISH, IMPLEMENTS, AND SURPLUS MATERIALS AND LEAVE THE BUILDING IN NEW AND CLEAN
- 12. CONTRACTOR IS TO PROVIDE TO THE OWNER A LIST OF ALL SUBCONTRACTORS USED, COMPLETE WITH ADDRESSES, PHONE NUMBERS AND COPIES OF ALL WARRANTIES AND OPERATIONS AND MAINTENANCE MANUALS.
- 13. CONTRACTOR SHALL PROTECT ALL EXISTING FINISHES AND OWNER FURNISHINGS DURING CONSTRUCTION AND DEMOLITION ACTIVITIES. OWNER WILL MOVE FURNITURE, FURNISHINGS, ETC. AS NEEDED FROM IMMEDIATE CONSTRUCTION ZONES, BUT NOT ALL OF THESE ITEMS WILL BE REMOVED FROM THE PREMISES. ANY ITEMS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR.
- 14. A SEPARATE RENOVATION PROJECT (UNDER SEPARATE CONTRACT) WILL OCCUR IN CONJUNCTION WITH THE SCOPE OF THIS PROJECT, TO INCLUDE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL MODIFICATIONS, INCLUDING REMOVAL AND REPLACEMENT OF EXISTING CEILINGS THROUGHOUT. COORDINATE WORK WITH SEPARATE CONTRACT TO FACILITATE INSTALLATION OF NEW WORK AND AVOID SCHEDULING CONFLICTS.
- 15. A SEPARATE SITEWORK PROJECT (UNDER SEPARATE CONTRACT) WILL ALSO OCCUR IN CONJUNCTION WITH THE SCOPE OF THIS PROJECT, TO INCLUDE INSTALLATION OF A NEW UNDERGROUND FIRE LINE TO SUPPORT THE SPRINKLER INSTALLATION PACKAGE. COORDINATE WORK WITH SEPARATE CONTRACT TO FACILITATE INSTALLATION OF NEW WORK AND AVOID SCHEDULING CONFLICTS.

DRAWING SYMBOL LEGEND



VICINITY MAP



BUILDING CODE ANALYSIS SUMMARY

Project: USC Upstate Library Mo Code & Edition: 2018 IBC, 2017	
Construction Classification: TYPI	E IIB
	Business) ! (Cafeterias) ! (Libraries)
Non-separated Mixed Use Most Restrictive Occupancy	Classification: A-2
Allowable Area per Story by Table Basement: 28,500 SF First Floor: 28,500 SF Second Floor: 28,500 SF Total: 85,500 SF	e (Sprinklered):
Frontage increase required: If = [F/P - 0.25] W/30 If = [720/720 - 0.25] 30/30 If = 75% Allowable Area per Story (Aa Aa = [28,500 + (9,500 x 0.75)]) = [At + (NS x lf)]] = 35,625
Area as Designed per Story: Basement: 6,682 SF First Floor: 29,310 SF Second Floor: 29,780 SF Total: 65,772 SF	
Allowable Height in Feet: Allowable Height in Stories: Height as Designed in Feet: Height as Designed in Stories:	75 3 48 3
Fire Resistance Ratings (TYPE II Primary Structural Frame: Bearing Walls (Exterior): Bearing Walls (Interior): Nonbearing Walls (Exterior): Nonbearing Walls (Interior): Floor Construction: Roof Construction: Fire Walls: Fire Barriers (Stairs): Shaft Enclosures: Fire Partitions:	0 hour 0 hour 0 hour 0 hour
Exit Access Travel Distance:	250' maximum

PROJECT CONTACTS

ABBREVIATIONS

ALUM ALUMINUM

BLKG BLOCKING

CB

CONT

CPT

ELEV

EXP

GC

BOARD

ACT ACOUSTICAL CEILING TILE

CHALK BOARD

CONCRETE

CONTINUOUS

CLASSROOM

DEEP SHELVES

EXPANSION JOINT

CONST CONSTRUCTION

CARPET

DOUBLE

DETAIL

EACH

EQUAL

EXISTING

EXPANSION EXTERIOR

FLOOR DRAIN

FINISH FLOOR

FLOUR FLOURESCENT FIXTURE

GRAB BAR

FIRE EXTINGUISHER

GENERAL CONTRACTOR

GYPSUM WALL BOARD

HOLLOW METAL

INSIDE DIAMETER

ELEC ELECTRICAL

FLR FLOOR

FTG FOOTING

GALV GALVANIZED

HORIZ HORIZONTAL

INSUL INSULATION

INT INTERIOR

LAV LAVATORY

DIMENSION

ELEVATION

CONTROL JOINT CERAMIC TILE

CMU CONCRETE MASONRY UNIT

OWNER

USC UPSTATE 155 AMERICAN WAY SPARTANBURG, SC 29303 CONTACT: FRED SCOTT

FSCOTT@USCUPSTATE.EDU

T: 864.503.5538

TODD@JCSARCHITECTS.COM

T: 803.791.1020

MASONRY

MIRROR

METAL

OPNG OPENING

PLUMB PLUMBING

PAIR

RD ROOF DRAIN

REQ'D REQUIRED

SCHED SCHEDULE

PAINT

PL PLATE

OD

SEC

SIM

SWC

TYP

V.I.F.

NOSING

PL LAM PLASTIC LAMINATE

REINF REINFORCE (D) (ING)

SECTION

STAINLESS STEEL

SOLID WOOD CORE

U.N.O. UNLESS NOTED OTHERWISE

VERIFY IN FIELD

VIEW WINDOW

412 MEETING STREET

WEST COLUMBIA, SC 29169

CONTACT: L. TODD SEASE, AIA

VINYL COMPOSITION TILE

UNDERWRITER'S LABORATORY

JUMPER CARTER SEASE ARCHTECTS, PA

TACK BOARD

SHEET

SIMILAR

STEEL

TYPICAL

TEMP TEMPERED

TOIL TOILET

TRTD TREATED

VERT VERTICAL

WITH

W/O WITH OUT WD WOOD

ARCHITECT

ON CENTER

MECH MECHANICAL

MARKER BOARD

MANUFACTURER

MASONRY OPENING

NOT IN CONTRACT

OUTSIDE DIAMETER

FIRE PROTECTION

SWYGERT ASSOCIATES 1315 STATE STREET CAYCE, SC 29033 CONTACT: TODD SWYGERT, PE

T: 803.791.9300 TODD@SWYGERT-ASSOCIATES.COM

ELECTRICAL / FIRE ALARM

SIMS GROUP 800 COLUMBIANA DRIVE, SUITE 208 IRMO, SC 29063 CONTACT: CHRIS PARTRICH, PE

CHRIS@SIMSGROUPUSA.COM

T: 803.765.1007

SHEET NO:

DRAWN BY:

CHECKED BY:

COMM NO:

Jumper

Carter

Sease

ARCHITECTS

412 Meeting Street West Columbia

12/4/2020

TITLE SHEET

NOTES TO SHEET

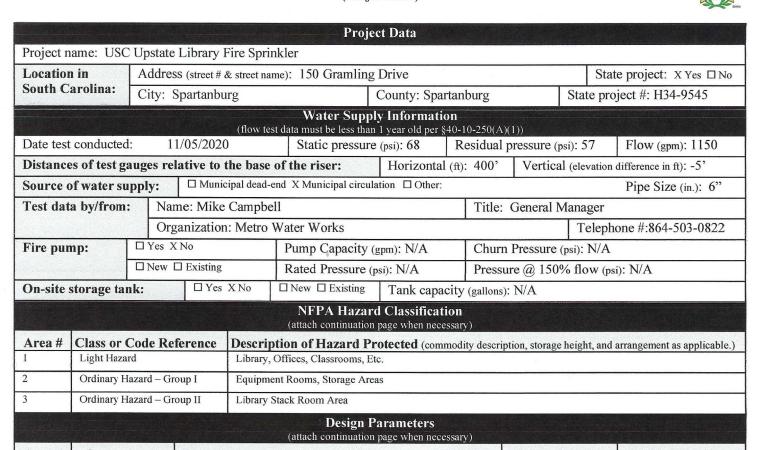
- (1) RISER ROOM WILL HAVE A CEILING OVER IT TO ALLOW FOR RETURN AIR ABOVE THE SPACE. SEISMIC BRACING SHALL EXTEND UP TO BUILDING STRUCTURE FOR BRACING WHILE AVOIDING EXISTING DUCTWORK. SEE PHOTO THIS SHEET.
- (2) AREA WITH NO CEILING. UPRIGHT HEADS REQUIRED.
- 3 AREA WITH EXISTING HARD CEILINGS. PROVIDE COVERAGE WITH SIDEWALL HEAD WITH PIPING IN ADJACENT SPACE.
- 4 EXPOSED PIPING IN STAIRWELL WILL BE PERMITTED. ANY PIPE PENETRATIONS THROUGH WALLS OF STAIRWELL SHALL BE FIRE CAULKED FOR 1-HOUR RATING.
- 5 TABLES AND CHAIRS IN TUKEY AUDITORIUM 002 ARE FIXED AND THIS CONTRACTOR SHALL PLAN TO WORK AROUND THESE ACCORDINGLY.

CORRIDOR H002

GENERAL NOTES

- SUBMIT DRAWINGS INDICATING EXACT LOCATION OF ALL SPRINKLER HEADS FOR ARCHITECTS REVIEW AND BRING ALL FIELD CONFLICTS AND REQUIRED ADJUSTMENTS TO THE ARCHITECTS ATTENTION FOR VERIFICATION OF FINAL LOCATION OF ALL SPRINKLER HEADS.
- SPRINKLER DRAWINGS PROVIDED ARE TO ASSIST THE CONTRACTOR. SUCCESSFUL CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF A COMPLETE SYSTEM PER THESE PLANS AND SPECIFICATIONS AND IN COMPLIANCE WITH ALL APPLICABLE CODES. ENGINEER WILL BE RESPONSIBLE FOR SUBMISSION TO THE OFFICE OF THE STATE FIRE MARSHAL.
- THE DESIGN TEAM, TO INSURE COMPATIBILITY WITH THE BUILDING DESIGN INTENT, WILL CAREFULLY REVIEW SPRINKLER PLANS. CORRECTIONS WILL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- . SYSTEM DRAINS SHALL BE INSTALLED AS REQUIRED PER NFPA. DRAINS SHALL BE EXTENDED OUTSIDE THE BUILDING. DRAIN LOCATIONS SHALL BE APPROVED BY THE A/E TEAM AND SHALL BE INDICATED ON THE SHOP DRAWINGS.
- PROVIDE NECESSARY GUARDS OVER EQUIPMENT IN ELECTRICAL ROOMS WHERE REQUIRED BY NFPA 13.
- WHERE PIPING IS TO BE RUN EXPOSED, SUCH AS STAIRWELLS, CARE SHALL BE TAKEN TO MINIMIZE THE ABILITY OF BUILDING OCCUPANTS TO TOUCH, HANG FROM, OR OTHERWISE VANDALIZE FIRE PROTECTION SYSTEM.
- SPRINKLER HEADS SHALL BE LOCATED A MINIMUM OF 6" AWAY FROM CEILING GRID IN ALL ACOUSTICAL CEILING TILES.
- 8. SPRINKLER PIPING SHALL BE INSTALLED TO MEET SEISMIC REQUIREMENTS WITH LATERAL SWAY BRACING, LONGITUDINAL SWAY BRACING, AND FOUR-WAY BRACING AS REQUIRED BY NFPA AND THE INTERNATIONAL BUILDING CODES.
- 9. ALL PIPING 2-1/2" AND LARGER SHALL BE SCHEDULE 10 STEEL PIPING AND ALL PIPING SMALLER THAN 2-1/2" SHALL BE SCHEDULE 40 STEEL PIPING.
- 10. CONTRACTOR SHALL PROTECT ALL EXISTING FINISHES AND OWNER FURNISHINGS DURING CONSTRUCTION ACTIVITIES. OWNER WILL MOVE FURNITURE, FURNISHINGS, ETC. AS NEEDED FROM IMMEDIATE CONSTRUCTION ZONES, BUT THESE ITEMS MAY NOT BE REMOVED FROM THE PREMISES. ANY ITEMS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR.
- PHASING OF INSTALLATION WILL BE REQUIRED. CONTRACTOR SHALL COORDINATE WITH OWNER AND USE FOR AN MUTUALLY AGREED UPON SCHEDULE.
- 12. FIRE SPRINKLER CONTRACTOR SHALL COORDINATE WITH FIRE ALARM INSTALLER FOR LOCATIONS OF ALL VALVES THAT ARE TO BE MONITORED.
- 13. A SEPARATE RENOVATION PROJECT (UNDER SEPARATE CONTRACT) WILL OCCUR IN CONJUNCTION WITH THE SCOPE OF THIS PROJECT. TO INCLUDE ARCHITECTURAL. MECHANICAL, AND ELECTRICAL MODIFICATIONS. COORDINATE WORK WITH SEPARATE CONTRACT TO FACILITATE INSTALLATION OF NEW WORK AND AVOID SCHEDULING CONFLICTS. EXISTING ACOUSTICAL CEILING SYSTEM (GRID AND TILES) TO BE REMOVED AND REPLACED UNDER SEPARATE CONTRACT BY OTHERS.

Fire Protection Sprinkler System Specification Sheet



Design Parameters (attach continuation page when necessary)					
Area#	System Type	Density (gpm/ft²) / Area (ft²) or Other (reference code section)	Inside Hose (gpm)	Outside Hose (g	
1	Wet	0.10/1500	0	100	
2	Wet	0.15/1500	0	250	
3	Wet	0.20/1500	0	250	
Seismic	Design Data: S _S =	0.268 Codes and Standards			

Applicable Codes, Standards & Editions (i.e. "2006 IBC", "2007 NFPA 13", etc.) for the Scope of Work on the Sprinkler System International Building Code – 2018 Edition; International Fire Code – 2018 Edition NFPA 13 - 2016 Edition

Scope of work (such as sprinkler system A.G. from 1'-0" A.F.F., U.G. from tap to 5'-0" outside, etc.) and notes (attach continuation page when necessary): Above ground from 5'-0" outside of the building

Specifier's I	nformation	
Name: Todd F. Swygert, P.E.	MINITERING TO SERVICE	
Engineering services provided through a firm: X Yes □ No	HILLIAM CAROLINA	
Firm name: Swygert and Associates, Ltd.		
Address: Post Office Box 11686	SWYGERT AND ASSOCIATES, LTD.	
City: Columbia	No. c00227	
State: South Carolina Zip: 29211	THE OF AUTHORITIES	
Phone #: (803)791-9300 Fax #: (803)791-0830	William Hall	
E-mail: Todd@swygert-associates.com	Certificate of Authorization	P _t

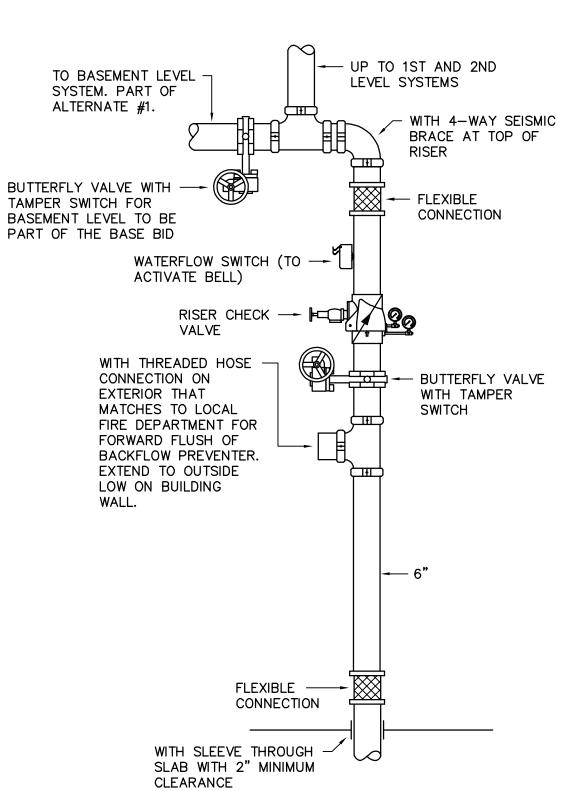
Certificate of Authorization Professional Engineer's Seal

Revision No.: 2

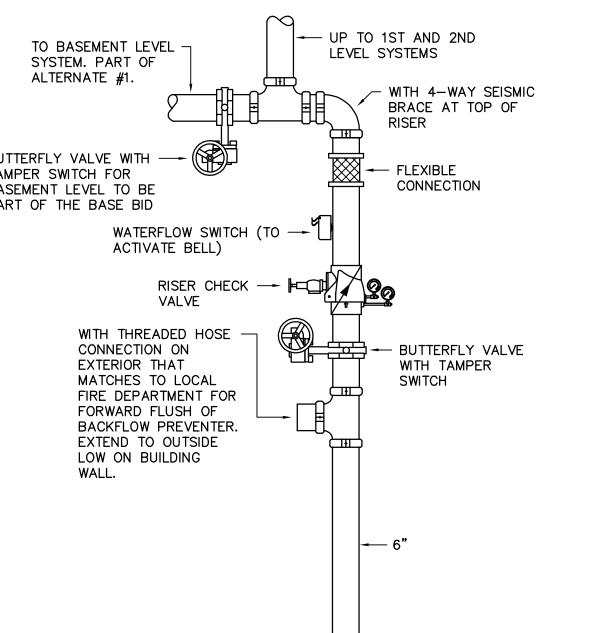
Date: _ 11 - 16 - 2020

Form: Fire Sprinkler Specification Sheet - 2022-11-16 (Download latest @ http://www.llr.state.sc.us/fmarshal/index.asp?file=forms.htm)

NEW RISER ROOM LOCATION NO SCALE



RISER DETAIL



LIB

Carter

ARCHITECTS

412 Meeting Street

ASSOCIATES, LTD.

West Columbia

South Carolina

DRAWN BY:

CHECKED BY:

12/04/2020

COMM NO:

BASEMENT FLOOR PLAN, NOTES, AND DETAIL

Swygert & Associates CONSULTING ENGINEERS

DBA Swygert & Assoc., Ltd.
Post Office Box 11686
Columbia, S.C. 29211

Telephone: (803) 791-9300
Facsimile: (803) 791-0830
mail@swygert-associates.com

NOTE:
BUILDING SHALL BE FULLY SPRINKLERED
PER THE REQUIREMENTS OF NFPA 13

— 2016 EDITION FOR A WET PIPE
SPRINKLER SYSTEM.

WATER FLOW INFORMATION

LEGEND

- ORDINARY HAZARD - GROUP I

STATIC: 68 PSI RESIDUAL: 57 PSI FLOW: 1150 GPM DATE: 10/05/2020

INFORMATION PROVIDED BY METROPOLITAN WATER & SEWER

DISTRICT (864) 503-0822.

LIGHT HAZARD

1 BASEMENT FLOOR PLAN - ALTERNATE #1

FP100 SCALE: 1/8" = 1'-0"

OFFICE 008A

2

FIRE RISER (SEE DETAIL)

- 6" - SEE SITE PLAN

(UNDER SEPARATE CONTRACT) FOR

CONTINUATION

NOTE: ALL FIRE SPRINKLER WORK

ON THIS LEVEL EXCEPT FOR

THE WORK ASSOCIATED WITH THE FIRE RISER SHALL BE BID AS ALTERNATE #1.

- ELECTRIC BELL

NOTES TO SHEET

- 1) EXPOSED PIPING IN STAIRWELL WILL BE PERMITTED. ANY PIPE PENETRATIONS THROUGH WALLS OF STAIRWELL SHALL BE FIRE CAULKED FOR 1—HOUR RATING.
- 2) FIRE SPRINKLER SYSTEM FROM BELOW AND TO UPPER FLOORS IN THIS LOCATION. PIPE PENETRATIONS THROUGH FLOOR SLAB SHALL BE FIRE CAULKED FOR 1—HOUR

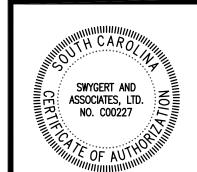
Jumper

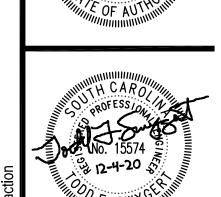
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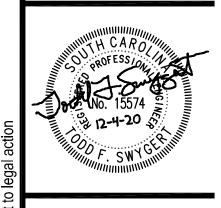
Sease

ARCHITECTS

412 Meeting Street West Columbia South Carolina







29303

12/04/2020

FIRST FLOOR PLAN

Swygert & Associates CONSULTING ENGINEERS DBA Swygert & Assoc., Ltd.
Post Office Box 11686
Columbia, S.C. 29211

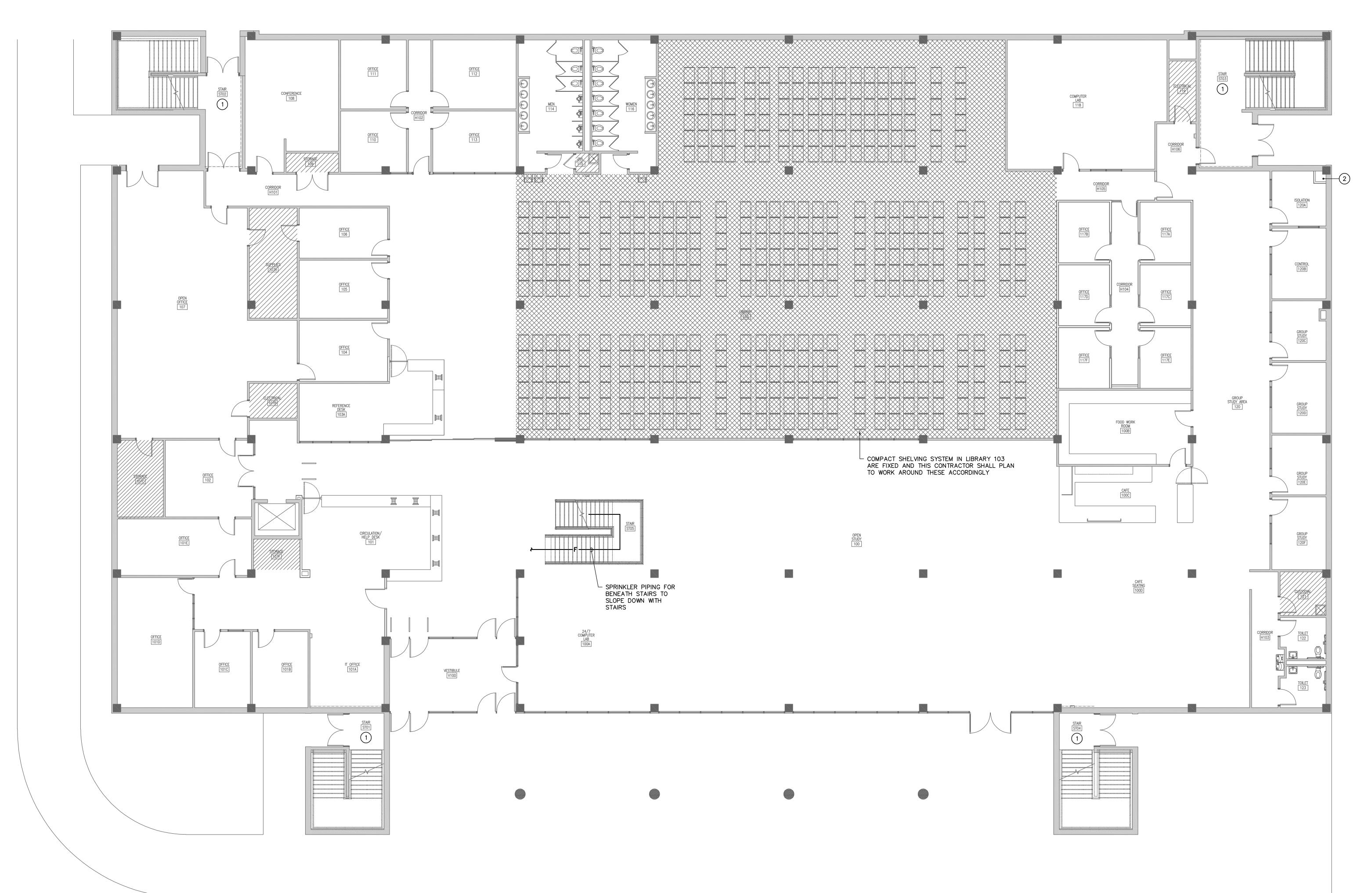
Telephone: (803) 791-9300
Facsimile: (803) 791-0830
mail@swygert-associates.com

NOTE:
BUILDING SHALL BE FULLY SPRINKLERED
PER THE REQUIREMENTS OF NFPA 13

- 2016 EDITION FOR A WET PIPE SPRINKLER SYSTEM.

LEGEND

LIGHT HAZARD ORDINARY HAZARD — GROUP I - ORDINARY HAZARD - GROUP II



NOTES TO SHEET

- 1) EXPOSED PIPING IN STAIRWELL WILL BE PERMITTED. ANY PIPE PENETRATIONS THROUGH WALLS OF STAIRWELL SHALL BE FIRE CAULKED FOR 1-HOUR RATING.
- FIRE SPRINKLER SYSTEM TO ABOVE CEILING IN THIS LOCATION. PIPE PENETRATIONS THROUGH FLOOR SLAB SHALL BE FIRE CAULKED FOR 1-HOUR RATING.

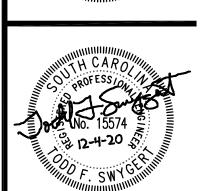
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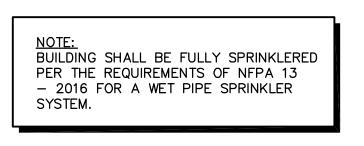
29303

12/04/2020

SHEET TITLE:
SECOND FLOOR
PLAN AND
NOTES

Swygert & Associates
CONSULTING ENGINEERS DBA Swygert & Assoc., Ltd.
Post Office Box 11686
Columbia, S.C. 29211

Telephone: (803) 791-9300
Facsimile: (803) 791-0830
mail@swygert-associates.com



LEGEND - LIGHT HAZARD - ORDINARY HAZARD - GROUP I



	STANDARD FIRE ALARM SYMBOLS
FAC	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM ANNUNCIATOR
FPE	FIRE ALARM POWER EXTENDER PANEL
FSD	FIRE/SMOKE DAMPER LOCATION
F	FIRE ALARM MANUAL PULL STATION. 48" AFF.
V	FIRE ALARM WALL MOUNTED HORN WITH STROBE LIGHT, CANDELA RATING AS NOTED. MOUNT BETWEEN 80" AND 96" AFF PER NFPA 72 AND ADA REQUIREMENTS.
₹	CEILING MOUNTED FIRE ALARM HORN WITH STROBE LIGHT, CANDELA RATING AS NOTED.
O	FIRE ALARM WALL MOUNTED STROBE LIGHT, CANDELA RATING AS NOTED. MOUNT BETWEEN 80" AND 96" AFF PER NFPA 72 AND ADA REQUIREMENTS.
(15)	CEILING MOUNTED FIRE ALARM STROBE LIGHT, CANDELA RATING AS NOTED.
S	MULTI SENSOR (PHOTOELECTRIC, THERMAL) DETECTOR. CEILING MOUNTED, UNLESS NOTED
oximes	HEAT DETECTOR. CEILING MOUNTED, UNLESS NOTED OTHERWISE.
0	DUCT MOUNTED SMOKE DETECTOR.
A	DUCT SMOKE DETECTOR REMOTE ALARM INDICATOR WITH INTEGRATED KEYED TEST SWITCH.
Ю	WALL MOUNTED MAGNETIC DOOR HOLDER, 120V. 76" AFF, UNLESS NOTED — FIELD VERIFY WITH ARCHITECT.
(MM)	FIRE ALARM MONITORING MODULE.
(CM)	FIRE ALARM CONTROL MODULE.
(TS)	SPRINKLER SYSTEM TAMPER SWITCH MONITORING MODULE
(FS)	SPRINKLER SYSTEM FLOW SWITCH MONITORING MODULE
WP	WEATHERPROOF DEVICE. PROVIDE BACKBOX AND COVER U.L. LISTED AS WEATHERPROOF.

PROVIDE MINIMUM 3/4" C. WITH FIRE ALARM CABLING AND CONNECT ALL NEW DEVICES TO THE

EXISTING EDWARDS SYSTEM TECHNOLOGY FIRE ALARM SYSTEM.

ALL NEW FIRE ALARM DEVICES SHALL MATCH THE EXISTING TYPE.

SCOPE OF WORK

CEILING UNLESS NOTED OTHERWISE.

THE WORK OF THIS SECTION SHALL PROVIDE COMPLETE ELECTRICAL SYSTEMS AS SPECIFIED HEREIN AND SHALL INCLUDE THE PROVIDING OF ALL CONDUCTORS, RACEWAYS, FITTINGS, BOXES, SUPPORTS, AND ALL ASSOCIATED APPURTENANCES AND MISCELLANEOUS EQUIPMENT NECESSARY. ALL OF WHICH SHALL BE COMPLETELY CONNECTED, TESTED, ADJUSTED AND LEFT IN PROPER OPERATING CONDITION.

GENERAL NOTES:

- 1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE (NEC), THE 2018 INTERNATIONAL BUILDING CODE (IBC), AND ANY LOCAL CODES, LAWS AND ORDINANCES WHICH MAY APPLY. WHERE DIFFERENCES EXIST BETWEEN THE CODES, THE STRICTER CODE SHALL APPLY.
- THE CONTRACTOR FOR THE WORK UNDER THIS SECTION SHALL PROCURE AND PAY FOR ALL PERMITS, FEES, AND LICENSES REQUIRED FOR THE EXECUTION OF THIS WORK. SATISFACTORY EVIDENCE OF COMPLIANCE WITH THE REQUIREMENT AND ALL CERTIFICATES OF INSPECTION SHALL BE DELIVERED TO THE OWNER PROMPTLY UPON REQUEST.
- TYPE MC CABLE MAY BE USED FOR INTERIOR, CONCEALED BRANCH CIRCUITS. WHERE CABLE WOULD OTHERWISE BE EXPOSED, IT

SHALL BE INSTALLED IN CONDUIT. REDHEAD BUSHINGS SHALL BE PROVIDED AT EACH CABLE TERMINATION. TYPE MC MAY NOT BE

- USED UNDERGROUND OR UNDER SLAB. TYPE MC CABLE MAY NOT PENETRATE RATED WALLS OR FLOORS. FIRE ALARM SYSTEM CONDUITS AND COMMUNICATIONS SYSTEM CONDUITS TO BE EMT RUN OVERHEAD CONCEALED IN WALLS OR
- 5. ALL FIRE RATED WALLS, FLOORS, ETC WHICH HAVE A CONDUIT OR OTHER ELECTRICAL PENETRATION SHALL BE SEALED TO EQUAL THE RATING OF THE WALL, FLOOR, ETC. THAT IS PENETRATED. CONTRACTOR SHALL USE A U.L. RATED AND LISTED ASSEMBLY FOR THE SEALING MATERIAL AND METHOD. COORDINATE MANUFACTURER WITH THE GENERAL CONTRACTOR SO THAT ALL TRADES ON THE PROJECT USE THE SAME MANUFACTURER. THROUGH PENETRATIONS OF CONDUITS AND CABLES OF FIRE RESISTANCE RATED WALLS MUST COMPLY WITH SECTION 714.3.1 OF THE IBC. THROUGH PENETRATIONS OF FIRE RESISTANCE CEILING ASSEMBLIES MUST COMPLY WITH SECTION 714.4.1.1 OF THE IBC.
- 6. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS, LOCATIONS, CABINETS, ETC.
- 7. CONCEAL ALL CONDUIT AND FITTINGS EXCEPT WHERE THE ARCHITECT GRANTS SPECIFIC PERMISSION.
- 8. ALL WORK AND MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF ACCEPTANCE.
- 9. PROVIDE ONE COMPLETE SET OF ELECTRICAL DRAWINGS MARKED UP FOR RECORD DRAWINGS. SHOW ALL LOCATIONS OF EQUIPMENT AND MATERIALS.
- 10. INSTALL ALL MATERIALS PER MANUFACTURER'S INSTRUCTIONS.
- 11. IDENTIFY MAJOR EQUIPMENT INSTALLED WITH LAMICOR LABELS (SEE SPECS). PROVIDE FLASH HAZARD SIGN AT ALL ELECTRICAL PANELS. PROVIDE A TYPED DIRECTORY IN ALL PANEL BOARDS CLEARLY DESCRIBING THE LOCATION OF AND TYPE OF LOAD BEING SERVED FOR ALL CIRCUITS.
- 12. VISIT SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
- 13. CONTRACTOR SHALL DO ALL CUTTING AND PATCHING AS REQUIRED TO INSTALL HIS WORK. FINISH PATCHING AND PAINTING WILL BE DONE BY THE GENERAL CONTRACTOR.
- 14. PRIOR TO DIGGING ANY TRENCHES, NOTIFY ALL UTILITIES AND OBTAIN LOCATIONS OF UNDERGROUND UTILITIES. ANY DAMAGES DONE TO UNDERGROUND UTILITIES OR PIPING BY THIS CONTRACTOR WILL BE REPAIRED BY THE OWNER OF THE LINE IN A SATISFACTORY MANNER. THIS CONTRACTOR WILL BEAR ALL COSTS FOR REPAIRS.
- 15. CONDUITS TO BE RUN UNDER WALKWAYS AND PAVINGS SHALL BE INSTALLED BY JACKING OR BORING, UNLESS NOTED. DO NOT CUT WALKWAYS OR PAVEMENTS, UNLESS ACCEPTABLE TO THE ENGINEER. ALLOWED CUTS IN PAVEMENT OR CONCRETE SHALL BE MADE USING A PAVEMENT SAW, AND SHALL BE PATCHED TO MATCH THE EXISTING SURFACE.
- 16. WHERE DISAGREEMENTS EXISTS ON THE DESIGN DOCUMENTS, THE ITEM OR ARRANGEMENTS OF BETTER QUALITY, GREATER QUANTITY, OR HIGHER COST SHALL BE INCLUDED IN THE BASE BID. ANY DISCREPANCIES BETWEEN THE DRAWINGS, SPECIFICATIONS, AND FIELD CONDITIONS SHALL BE RESOLVED WITH THE ENGINEER PRIOR TO COMMENCING WORK. ALL AGREEMENTS SHALL BE VERIFIED IN
- 17. ALL WORK UNDER THIS SECTION SHALL BE COORDINATED WITH OTHER TRADES TO INSURE PROPER LOCATION OF OUTLETS AND EQUIPMENT CONNECTIONS, AND TO MINIMIZE CONFLICTS WITH STRUCTURAL MEMBERS, DUCT WORK, PIPING, ETC. CONFLICTS BETWEEN EQUIPMENT AND/OR MATERIAL LOCATIONS SHALL BE CORRECTED AS DIRECTED BY THE ARCHITECT-ENGINEER AT NO ADDITIONAL COST TO THE OWNER.

-SPRINKLER SYSTEM TAMPER AND FLOW MONITORING MODULES.

PROVIDE ONE MODULE FOR EACH VALVE TO BE MONITORED.

CONDUCTORS, MODULES, RELAYS, PROGRAMMING, SOFTWARE, HARDWARE AND OTHER APPURTENANCES FOR A FULL

FUNCTIONAL INTERFACE BETWEEN THE FIRE ALARM SYSTEM

PROVIDE QUANTITIES BASED UPON FIRE PROTECTION

AND THE FIRE SPRINKLER SYSTEM.

SPRINKLER SHOP DRAWINGS AND PROVIDE ALL CONDUIT,

ELECTRICAL SUBMITTALS

ELECTRICAL SHOP DRAWINGS SHALL BE SUBMITTED IN ONE COMPLETE PACKAGE CONTAINING ALL ITEMS REQUIRED BY THE ELECTRICAL DRAWINGS AND THE DIVISION 26-28 SPECIFICATIONS. PARTIAL SHOP DRAWING SUBMITTALS MAY BE REJECTED BY THE ARCHITECT-ENGINEER. REFER TO SECTION 260510 OF THE ELECTRICAL SPECIFICATIONS FOR REQUIRED SUBMITTAL FORMAT AND FOR ADDITIONAL REQUIREMENTS.

ABBREVIATIONS A AMPERES LTG LIGHTING AFF ABOVE FINISHED FLOOR MFR MANUFACTURER AFG ABOVE FINISHED GRADE

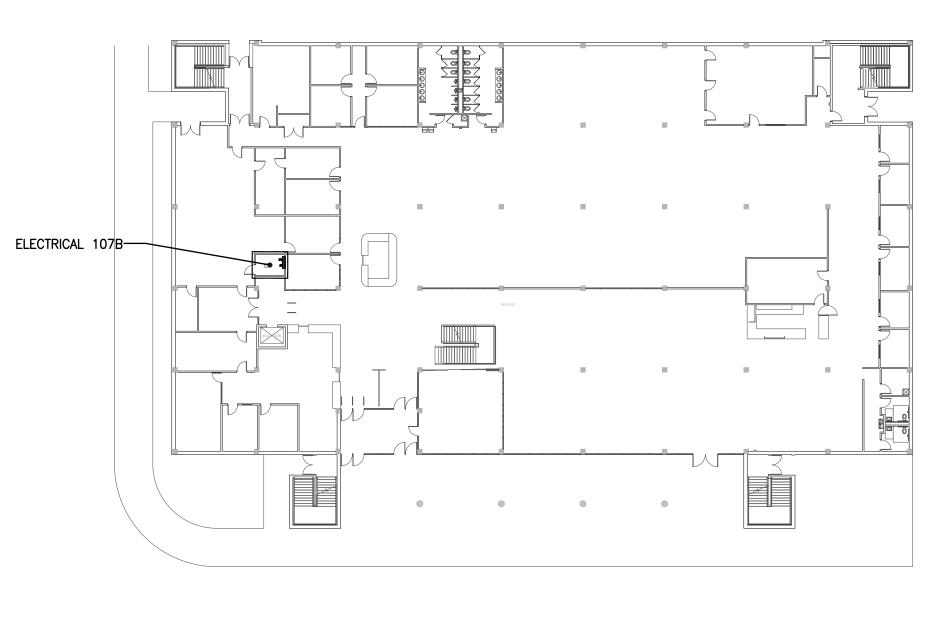
- MLO MAIN LUGS ONLY AWG AMERICAN WIRE GAUGE NEC NATIONAL ELECTRICAL CODE AHJ AUTHORITY HAVING NEMA NATIONAL ELECTRICAL JURISDICTION MANUFACTURERS ASSOCIATION CKT CIRCUIT
- NIC NOT IN CONTRACT CU COPPER PH,Ø PHASE EC EMPTY CONDUIT RCPT RECEPTACLE

EQPT EQUIPMENT

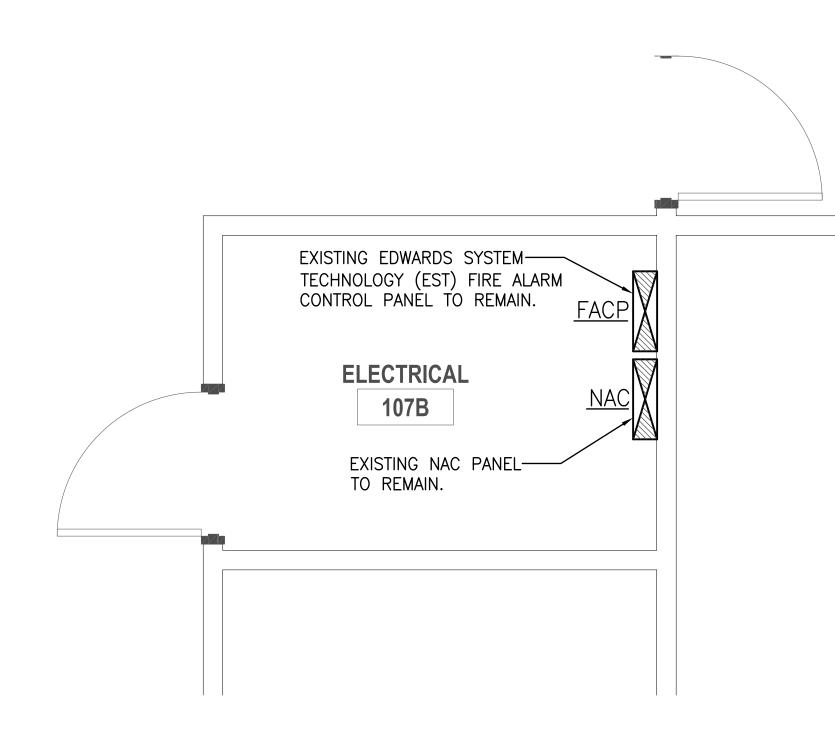
- RE: REFER TO EXST EXISTING TYP TYPICAL FWE FURNISHED WITH EQUIPMENT
- UNO UNLESS NOTED OTHERWISE GFI GROUND FAULT INTERRUPTER V VOLTS IAW IN ACCORDANCE WITH
- W WIRE OR WATTS KVA KILOVOLTAMPERES WP WEATHERPROOF KW KILOWATTS

ELECTRICAL DEMOLITION NOTES

- PRIOR TO SUBMITTING BID, THE CONTRACTOR SHALL SURVEY THE EXISTING BUILDING AND MAKE NOTE OF ANY ADDITIONAL DEMOLITION AND/OR ANY ADDITIONAL REMOVAL AND RELOCATION WHICH MAY BE REQ'D IN ORDER TO ACCOMPLISH RENOVATIONS INDICATED IN CONTRACT DOCUMENTS. NO CHANGE ORDER WILL BE ISSUED FOR ADDITIONAL WORK REQUIRED FOR DEMOLITION, REMOVAL, OR RELOCATION WORK NOT INDICATED ON THESE DRAWINGS BUT NECESSARY TO COMPLETE
- B. IN ALL AREAS WHERE EXISTING WALLS ARE BEING REMOVED, NEW WALLS ARE BEING ADDED, AND WHERE OTHER DEMOLITION WORK IS OCCURRING, REMOVE ALL EXISTING RECEPTACLES, LIGHTS, AND OTHER ELECTRICAL DEVICES, AND ALL WIRING AND CONDUIT NOT BEING REUSED. EXISTING CONDUIT RUN CONCEALED IN EXISTING WALLS NOT BEING REMOVED AND/OR REPLACED MAY BE ABANDONED. ALL DEMOLITION MUST BE COORDINATED WITH THE ARCHITECT AND WITH ALL OTHER TRADES TO AVOID CONFLICTS. REFER TO THE ARCHITECTURAL DEMOLITION PLAN.
- NO EXISTING ELECTRICAL MATERIALS, EQUIPMENT, WIRING, OR CONDUIT BEING REMOVED MAY BE REUSED ON THIS PROJECT UNLESS SPECIFICALLY NOTED OTHERWISE ON THESE DRAWINGS. ALL EXISTING ELECTRICAL MATERIALS AND EQUIPMENT NOT BEING REUSED SHALL BE DISPOSED OF AS INDICATED IN GENERAL NOTES.







ARCHITECTS

412 Meeting Street

SIMS GROUP ENGINEERS, INC.

West Columbia

South Carolina

DRAWN BY:

CHECKED BY: COMM NO:

DATE: 12/4/2020

SHEET TITLE: (ALT. NO. 2) ELECTRICAL SYMBOLS, NOTES & ELECTRICAL PLANS

BID SET C18073 SIMS GROUP ENGINEERS, INC. 800 Columbiana Drive, Suite 208

Irmo, South Carolina 29063

www.simsgroupusa.com

Phone: (803) 765-1007 Fax: (803) 765-1030

SHEET NO: E001

1 BASEMENT PLAN - RISER ROOM 011A (ALT. NO. 2)

SCALE: 1/2"=1'-0"

2 BASEMENT KEY PLAN
NO SCALE

REFER TO FIRE PROTECTION DRAWINGS FOR FINAL LOCATION-AND QUANTITY. PROVIDE 1"C. WITH FIRE ALARM CABLING AND CONNECT TO THE EXISTING FIRE ALARM SYSTEM.

3 PARTIAL FIRST FLOOR PLAN
SCALE: 1/2"=1'-0"