

ACT	ACOUSTIC CEILING	F.E.C.	FIRE EXTINGUISHER	P.T. PTD.	PAINTED
AL	ALUMINUM	R.A.C.U.S.T.I.C	CABINET	P.R.V.	POWER ROOF VENTILATOR
AL, ALUM.	ALUMINUM	F.N.F.F.F.	FINISH FLOOR	R.P.	ROOF PILING
A.P.	ACCESS PANEL	F.O.S.F.	FACE OF STUD	REC.	RECESSED
A.R.G.W.B	EXTRUSION RESISTANT	FRP	FIREGLASS	RECEPT.	RECEPTIONIST
A.F.F.	ABOVE FINISHED	F.R.T.	REDUCED PLASTIC	REQD.	REQUIRED
BD.	BOARD	FTG.	FIRE TREATED	R.L.	RAIN LEADER
BLD.	BUILDING	FURR.	FOOTING	R.M.	ROOM
B.M.	BENCH MARK	F.V.C.	FIELD VERITY	R.O.	ROUGH OPENING
B.B.	BEARING	F.W.	FIELD VERNY	RUB.	RUBBER (WALL BASE)
C.B.G.	CABINET	G.A.	GRAB BAR	S.C.F.T.	SECTION
C.C.B.	CERAMIC TILE	G.B.	GYPSUM WALL BOARD	S.E.C.T.	STRUCTURE
C.T.	CEILING HEIGHT	G.W.B.	GYPSUM BOARD	S.H.	SHOWER HEAD
C.C.J.	CONTROL JOINT	H.T.	HEIGHT	S.H.T.	SHEET
C.C.	CENTER LINE	H.C.	HAND APPED	S.I.	SIMILAR
C.L.	CEILING	H.D.W.	HARDWARE	S.M.	STAINCE MOUNTED
C.L.G.	CLOSET	H.M.	HOLLOW METAL	S.P.	SURFACE PIPES
C.L.R.	CLEAR	H.O.L.R.	HOLE	S.S.	STAINLESS STEEL
C.M.U.	CONCRETE	H.P.	HIGH POINT	S.S.	STEEL
COL	COLUMN	I.D.	INSIDE DIAMETER	S.T.L.	STORAGE
CON.	CONCRETE	INSUL.	INSULATION	STRUT.	STRUCTURAL
CONST.	CONSTRUCTION	J.O.I.S.T.	JOIST	S.U.P.	SUSPENDED
CONT.	CONTINUOUS	J.O.I.N.T.	JOINT	S.Y.N.T.H.E.T.	SYNTHETIC FLOOR
CORR.	CORRIDOR	L.A.M.	LAMINATE	T.B. T.B.	TACKBOARD
C.R.	CARPET	L.A.V.	LAVATORY	T.E.L.P.H.	TELEPHONE
D.	DOUBLE	L.S.V.	LAVATORY SINK	T.G.G.	TONGUE AND GROOVE
D.A.	COLD ROLLED	M.	MEN	T.H.R.E.S.H.	THRESHOLD
D.C.T.	DETAIL	M.A.C.H.	MACHINE	T.O.B.	TOP OF
D.F.	DRINKING FOUNTAIN	M.A.I.N.T.E.N.A.N.C.E.	MAINTENANCE	T.O.M.	TOP OF MASONRY PARAPET
D.L.	DOUBLE	M.A.S.	MASONRY	T.P.	TOILET PAPER HOLDER
D.I.A.	DIAMETER	M.A.T.	MATERIALS	T.S.	TACK STRIP
D.M.	DIMENSION	M.A.X.	MAXIMUM	T.T.	TEACHING STATION
D.S.	DIMENSION	M.B.	MARKER BOARD	T.W.	TEACHING WALL
D.W.	DRAIN	M.B.	MARKER BOARD	T.Y.	TYPICAL
D.W.G.	DRAWING	M.E.C.H.	MECHANICAL	U.	UNDERWRITERS
E.	EACH	M.E.T.	METAL	U.S.	LABORATORIES
E.E.	EXPANSION JOINT	M.F.	MANUFACTURER	U.S.G.	UNLESS OTHERWISE NOT U.S. GYPSUM COMPANY
E.L.C.	ELECTRICAL	M.I.N.	MINIMUM	U.S.	UNIT
E.P.	EPOXY PAINT	M.O.	MASONRY OPENING	V.	VINYL ASBESTOS TILE
E.Q.	EQUAL	M.T.D.	MOUNTED	V.A.T.	VINYL COMPOSITION TILE
E.Q.P.	EQUIPMENT	N.C.	NON COMBUSTIBLE	V.E.S.T.	VESTIBULE
E.W.C.	ELECTRIC WATER	N.O.	NO CONTRACT	V.E.T.R.	VENT THROUGH ROOF
EXG.	EXISTING	N.O.#	NUMBER	V.	VENT
EXP.	EXPANSION	N.T.S.	NOT TO SCALE	W.	WOMEN
EXT.	EXTERIOR	O.C.	ON CENTER	W.I.T.H.	WITH
F.	FIRE	O.D.	OUTSIDE DIAMETER	W.A.I.N.	WAINSCOT
F.C.U.	FAN COIL	O.F.F.I.C.E.	OFFICE	W.A.R.D.	WARDROBE
F.D.	FLOOR DRAIN	O.P.P.	OPPOSITE HAND	W.	WALL CLOSET
F.F.	FIRE	O.P.N.G.	OPENING	W.D.	WOOD
F.O.U.	FAN COIL	P.A.R.T.	PARTITION	W.D.R.	WARDROBE
F.F.D.	FIRE FIGHTING	P.L.A.T.	PLATE	W.A.L.	WALL
F.F.N.	FIRE FIGHTING	P.L.A.M.	PLASTIC LAMINATE	W.M.	WALL-MOUNTED
F.E.	FIRE EXTINGUISHER	P.L.Y.	PLYWOOD	W.W.W.	WELDED WIRE MESH
		P.S.	PROJECTOR SCREEN		

	ALL METALS-SMALL SCALE		GLAZED C.M.U.
	ACOUSTIC C.M.U. SMALL SCALE		PARTICLE BOARD
	ACOUSTIC C.M.U. LARGE SCALE		RIGID INSULATION
	BATT INSULATION		SHINGLES
	BRICK		SOLID CONCRETE MASONRY UNITS
	CAST STONE		STEEL-LARGE SCALE
	CONCRETE		STUD PARTITION
	CONCRETE MASONRY UNITS		WOOD-FINISH
	EARTH		WOOD BLOCKING
	GLASS-LARGE SCALE		

Figure 1 illustrates various symbols used in architectural drawings:

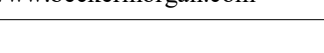
- STRUCTURAL GRID LINES:** A circle containing the number 0.
- SECTION:** A triangle containing the number 1 and the text A101, with the word SECTION to its right.
- ELEVATION:** A triangle containing the number 1 and the text A101, with the word ELEVATION to its right.
- DETAILS IN PLAN, SECTION:** A circle containing the number 1 and the text A101, with the words DETAILS IN PLAN, SECTION to its right.
- WALL TYPE, SEE A501:** A diamond containing the number 1, with the text WALL TYPE, SEE A501 below it.
- NEW WALL:** A symbol consisting of two parallel lines with a cross-hatch pattern between them.
- EXISTING WALL TO REMAIN:** A solid gray rectangular block.
- EXISTING WALL TO BE REMOVED:** A symbol consisting of two parallel dashed lines.
- Name:** A rectangle containing the number 101, with the word Name to its left.
- ROOM NAME AND NUMBER:** A rectangle containing the number 101, with the text ROOM NAME AND NUMBER to its right.
- WINDOW TAG:** A hexagon containing the number 11, with the text WINDOW TAG to its right.
- DOOR TAG:** A rounded rectangle containing the number 101, with the text DOOR TAG to its right.

## An aerial perspective line drawing of a proposed development. The layout includes a large central rectangular building with a flat roof, flanked by several smaller buildings with gabled roofs. A parking area with several marked spaces is located to the left of the central building. A road or path runs along the bottom and left sides of the development. The drawing uses simple lines to represent walls, roofs, and parking spaces, with some areas shaded to indicate different materials or structures.

04.23.2020

ARCHITECTS  
STRUCTURAL ENGINEERS  
MECHANICAL, PLUMBING AND  
ELECTRICAL ENGINEERS  
CIVIL ENGINEERS  
CONSTRUCTION MANAGERS

SHEET No.	SHEET TITLE
<b>GENERAL</b>	
G001	COVER SHEET
G101	CLASSROOM RENOVATION CODE SUMMARY
G201	CAMPUS LIFE SAFETY PLAN AND WORK SCOPE
G202	CLASSROOM RENOVATION LIFE SAFETY PLAN
<b>ARCHITECTURAL</b>	
AD101	DEMOLITION PLANS AND DETAILS
A101	CLASSROOM RENOVATION FLOOR PLANS
A201	FINISH SCHEDULE AND DETAILS
<b>PLUMBING</b>	
P101	CHEM/PHYSICS PLUMBING PLAN
<b>MECHANICAL</b>	
M001	MECHANICAL ABBREVIATIONS AND LEGEND
MH101	CLASSROOM RENOVATION FLOOR PLAN - HVAC
<b>ELECTRICAL</b>	
E001	ELECTRICAL SYMBOLS, ABBREVIATIONS, GENERAL NOTES
E101	CLASSROOM RENOVATION FLOOR PLAN - POWER



COVER SHEET

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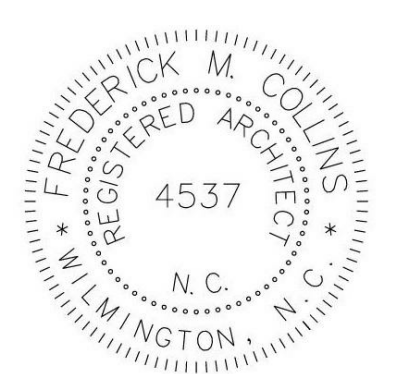
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ISSUED: 04/23/2020

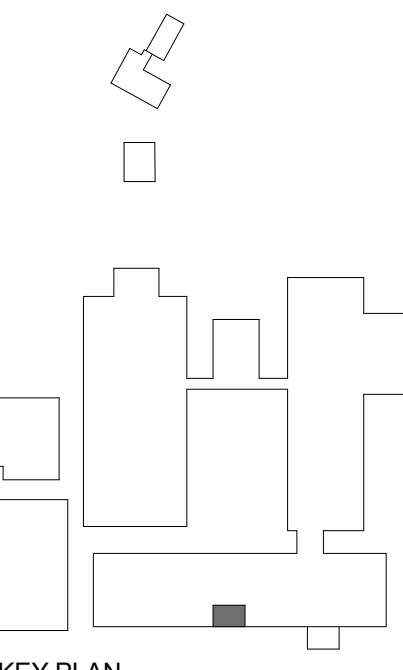


NORTH  
BRUNSWICK  
HIGH SCHOOL  
CLASSROOM  
413  
RENOVATION

114 SCORPION DRIVE N.E.  
LELAND, NC 28451

DSP # : 100  
DPI SCHOOL # : 1165

## CLASSROOM RENOVATION CODE SUMMARY

[illegible]

	04.23.20	ISSUED FOR BIDDING
	03.26.20	100% REVIEW SUBMISSION
	10.14.19	NCDPI CD SUBMISSION
	7.30.19	SD PROGRESS DRAWINGS
	7.11.19	NCDPI SD SUBMISSION
Mark	Date	Description

PROJECT NO:	201908
DATE:	04.23.20
SCALE:	

DRAWN BY: LJR	PROJ MGR: RMC
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Q101

G101

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Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

## LIFE SAFETY PLAN REQUIREMENTS:

LIFE SAFETY PLAN SHEET # G203

- FIRE AND/OR SMOKE RATED WALL LOCATIONS (Chapter 7)
- ASSUMED AND REAL PROPERTY LINE LOCATIONS (if not on the site plan)
- EXISTING WALL OPENING AREA WITH RESPECT TO ASSUMED PROPERTY LINES (705.8)
- OCCUPANCY TYPES FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.2) OCCUPANT LOADS FOR EACH AREA
- EXIT ACCESS TRAVEL DISTANCES (1017)
- COMMON PATH OF TRAVEL DISTANCES (1006.2.1 & 1006.3.2(1))
- DEAD END LENGTHS (1020.4)
- CLEAR EXIT WIDTHS FOR EACH EXIT DOOR
- MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1008.3)
- ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR
- A SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOOR / CEILING AND/OR ROOF STRUCTURE IS PROVIDED FOR PURPOSES OF OCCUPANCY SEPARATION
- LOCATION OF DOORS WITH PANIC HARDWARE (1008.1.1)
- LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND THE AMOUNT OF DELAY (1010.1.9.7)
- LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (1010.1.9.1)
- LOCATION OF DOORS EQUIPPED WITH HOLD-OPEN DEVICES
- LOCATION OF EMERGENCY ESCAPE WINDOWS (1030)
- THE SQUARE FOOTAGE OF EACH FIRE AREA (202)
- THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT FOR OCCUPANCY CLASSIFICATION I-2 (407.5)
- NOTE ANY CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE.

ACCESSIBLE PARKING		(SECTION 1106)		N/A EXISTING		
LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	8' ACCESS AISLE	
	-	-	-	-	-	-
<b>TOTAL</b>	-	-	-	-	-	-

LATERAL DESIGN CONTROL: ☐ N/A ☐ EARTHQUAKE ☐ WIND

SOIL BEARING CAPACITIES:

☐ N/A

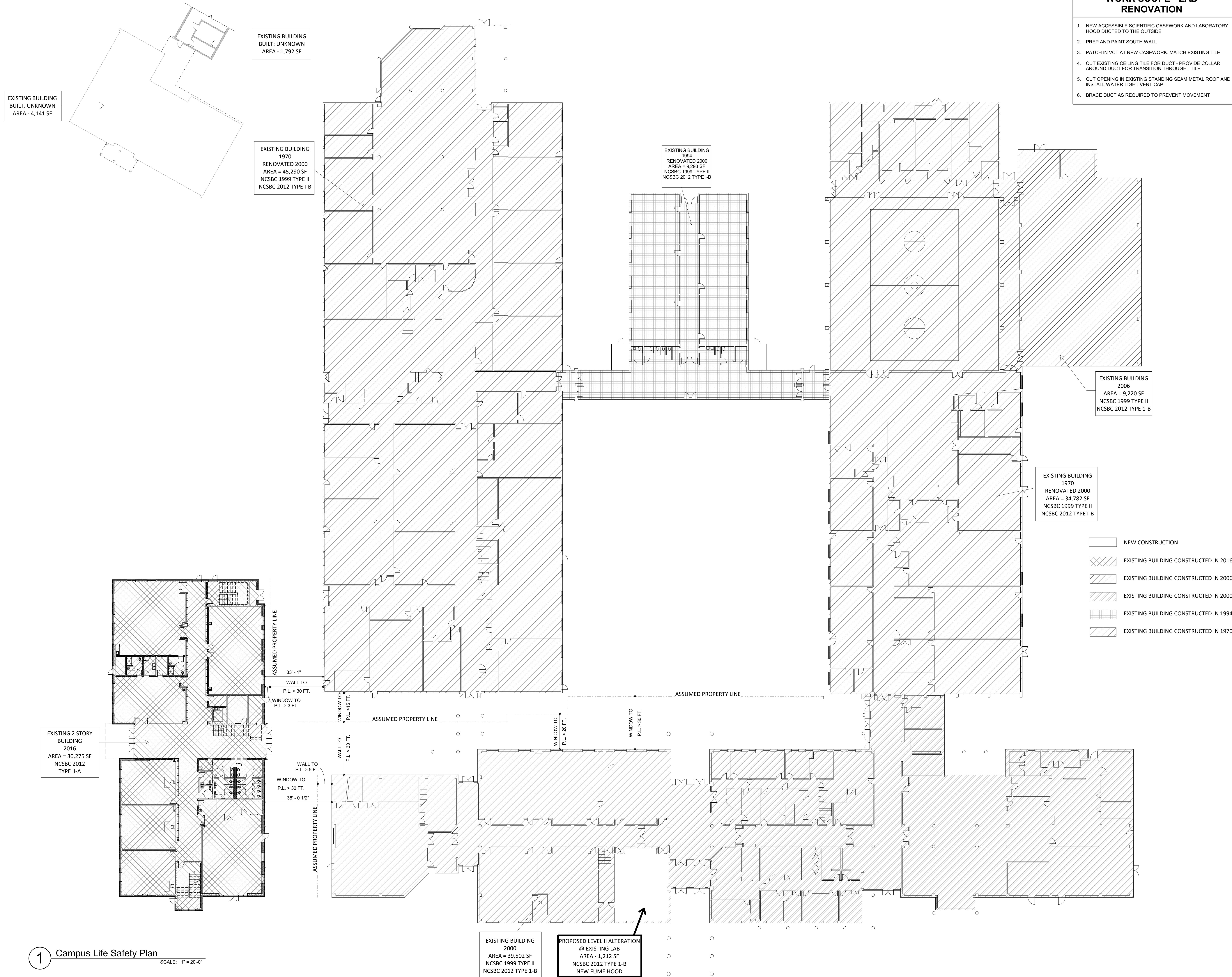
☐ FIELD TEST (PROVIDE COPY OF TEST REPORT) \_\_\_\_\_ PSF

☐ PRESUMPTIVE BEARING CAPACITY \_\_\_\_\_ PSF

PILE SIZE, TYPE AND CAPACITY \_\_\_\_\_ PSF

**ADDITIONAL PRESCRIPTIVE COMPLIANCE**  
(When using the 2018 NCECC; not required for ASHRAE 90.1)

- C406.2 MORE EFFICIENT HVAC EQUIPMENT PERFORMANCE C406.3 REDUCED LIGHTING POWER DENSITY
- C406.4 ENHANCED DIGITAL LIGHTING CONTROLS
- C406.5 ON-SITE RENEWABLE ENERGY
- C406.6 DEDICATED OUTDOOR AIR SYSTEM
- C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING



**WORK SCOPE - LAB RENOVATION**

1. NEW ACCESSIBLE SCIENTIFIC CASEWORK AND LABORATORY HOOD DUCTED TO THE OUTSIDE

2. PREP AND PAINT SOUTH WALL

3. PATCH IN VCT AT NEW CASEWORK. MATCH EXISTING TILE

4. CUT EXISTING CEILING TILE FOR DUCT - PROVIDE COLLAR AROUND DUCT FOR TRANSITION THROUGHOUT TILE

5. CUT OPENING IN EXISTING STANDING SEAM METAL ROOF AND INSTALL WATER TIGHT VENT CAP

6. BRACE DUCT AS REQUIRED TO PREVENT MOVEMENT

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ISSUED: 04/23/2020

FREDERICK M. COLWELL

REGISTERED ARCHITECT

4537

N.C.

WILMINGTON, N.C.

BECKER MORGAN GROUP, INC.

REGISTERED ARCHITECTURAL FIRM

51922

North Carolina

WILMINGTON, NC

PROJECT TITLE

**NORTH BRUNSWICK HIGH SCHOOL CLASSROOM 413 RENOVATION**

114 SCORPION DRIVE N.E.  
LELAND, NC 28451

DSP # : 100

DPI SCHOOL # : 1165

SHEET TITLE

**CAMPUS LIFE SAFETY PLAN AND WORK SCOPE**

KEY PLAN

ISSUE BLOCK

Date	Description
04.23.20	ISSUED FOR BIDDING
03.28.20	100% REVIEW SUBMISSION
10.14.19	NCDPI DO SUBMISSION
7.30.19	SD PROGRESS DRAWINGS
7.11.19	NCDPI SD SUBMISSION

Mark

Date

Description

PROJECT NO: 2019082.00

DATE: 04.23.2020

SCALE: As indicated

DRAWN BY: LJR PROJ MGR: RMC

G201

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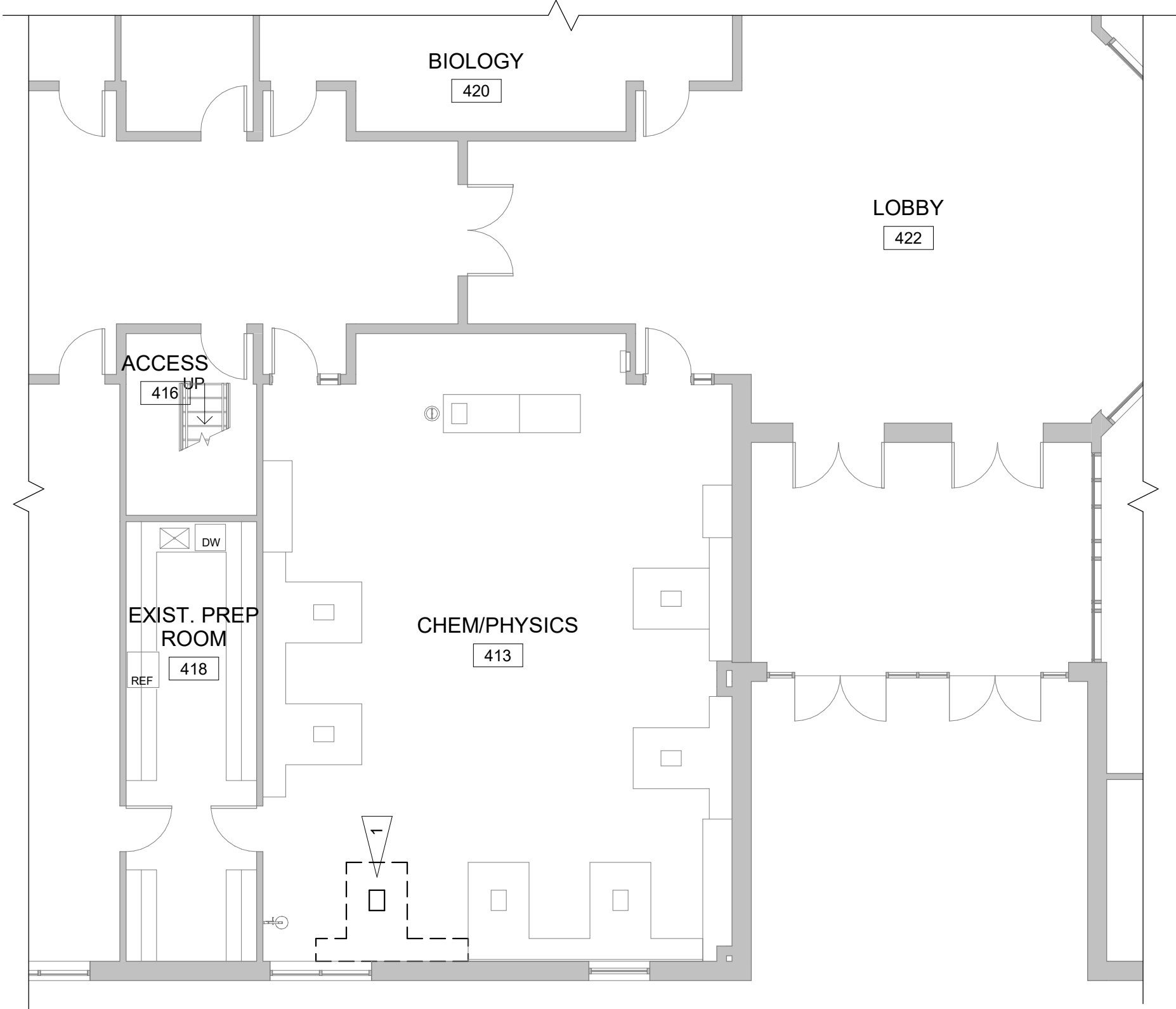


DSP #: 100  
DPI SCHOOL #: 1165

**KEY PLAN**

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DEMOLITION KEY NOTES	DEMO LEGEND	GENERAL DEMOLITION NOTES
<div>1</div> REMOVE PORTION OF CASEWORK, ASSOCIATED COUNTERTOP, SHELVING, RELATED HARDWARE AND ACCESSORIES.	<div>EXISTING WALL TO REMAIN</div>	1. EXISTING WORK TO REMAN SHALL BE PROTECTED FROM DEMOLITION AND CONSTRUCTION OPERATIONS.
<div>2</div> REMOVE PORTION OF EXISTING CEILING TO ALLOW FOR NEW WORK.	<div>EXISTING WINDOW TO REMIAN</div>	2. CONTRACTOR TO PROVIDE TEMPORARY BRACING AND SHORING AS REQUIRED TO ACCOMPLISH DEMOLITION ACTIVITIES AND MAINTAIN STRUCTURAL STABILITY UNTIL NEW WORK IS INSTALLED.
	<div>EXISTING DOOR TO REMAIN</div>	3. COORDINATE EXTENT OF DEMOLITION WITH NEW WORK.
	<div>EXISTING WALL TO BE REMOVED</div>	4. PATCH, RESTORE, AND REPAIR SURFACES AT DEMOLISHED ELEMENTS TO MATCH ADJACENT UNDAMAGED SURFACES. REFER TO "EXECUTION" SPECIFICATION.
	<div>EXISTING WINDOW TO BE REMOVED</div>	5. PROVIDE PRE-DEMOLITION PHOTOGRAPHIC OR VIDEO DOCUMENTATION; SEE SPECIFICATIONS.
	<div>EXISTING DOOR TO BE REMOVED</div>	6. PATCH, REPAIR, AND PREP ALL WALL SURFACES TO RECEIVE NEW FINISHES.
	<div>EXISTING ACT CEILING TO BE REMOVED</div>	7. NO KNOWN HAZARDOUS MATERIALS EXIST IN THE BUILDING EXCEPT AS NOTED. REFER TO SPECIFICATION FOR HAZARDOUS MATERIALS ENCOUNTERED DURING CONSTRUCTION.
	<div>EXISTING ACT CEILING TO BE REMOVED</div>	8. REFER TO SPECIFICATIONS FOR ITEMS TO SALVAGE FOR OWNER.
		9. REFER TO M/E/P/FP DRAWINGS FOR ADDITIONAL WORK.

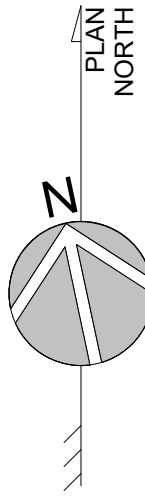


1 CLASSROOM RENOVATION  
DEMOLITION PLAN  
SCALE: 1/8" = 1'-0"



2 CLASSROOM RENOVATION  
DEMOLITION REFLECTED  
CEILING PLAN  
SCALE: 1/8" = 1'-0"

8' 4' 0' 8'  
SCALE : 1/8" = 1'-0"



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SHEET TITLE  
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AND DETAILS

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PROJECT NO: 2019082.00		
DATE: 04.23.2020		
SCALE: 1/8" = 1'-0"		
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AD101		
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GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE IN FULL COMPLIANCE WITH NFPA, THE NORTH CAROLINA STATE BUILDING CODE, ALL LOCAL CODES AND ORDINANCES AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.

2. ALL EQUIPMENT PROVIDED BY THE CONTRACTOR SHALL BE LISTED AND LABELED BY A NATIONALLY-RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, FOR THE CONDITIONS OF INSTALLATION. ALL MATERIAL, EQUIPMENT AND DEVICES SHALL BE NEW CURRENT PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH PRODUCTS. EQUIPMENT SHALL BE SUITABLE FOR ITS APPLICATION (E.G. WHEN INSTALLED OUTDOORS, IT SHALL BE WEATHERPROOF, ETC.).

3. THE CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR WORK REQUIREMENTS, THE AMOUNT OF SPACE AVAILABLE FOR ELECTRICAL EQUIPMENT, AND LAYOUT HIS WORK IN A COMPATIBLE AND COMPLEMENTARY MANNER.

4. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THOROUGHLY FAMILIARIZING HIMSELF WITH ANY CONTRACTUAL REQUIREMENTS AS MAY BE SET FORTH IN THE OTHER DIVISIONS OF THE PROJECT SPECIFICATIONS.

5. UNLESS SPECIFICALLY NOTED OTHERWISE, SYSTEMS PROVIDED OR INSTALLED BY THE ELECTRICAL CONTRACTOR SHALL BE COMPLETE AND FULLY-FUNCTIONING AFTER INSTALLATION. INCIDENTAL COMPONENTS MAY NOT BE SHOWN, AND ALL WORK WHICH MAY BE REASONABLY IMPLIED AS BEING INCIDENTAL TO THIS WORK, BUT REQUIRED FOR THE PROPER OPERATION OF THE EQUIPMENT OR SYSTEM, SHALL BE PROVIDED BY THE CONTRACTOR AND INCLUDED IN THE BID. ADDITIONAL CIRCUITS SHALL BE INSTALLED WHEREVER NEEDED TO CONFORM TO THE SPECIFIC REQUIREMENTS OF EQUIPMENT.

6. TEMPORARY POWER CONNECTIONS AS REQUIRED SHALL BE PROVIDED BY THE CONTRACTOR AND INCLUDED IN THE BID. ALL TEMPORARY EQUIPMENT WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. THE CONTRACTOR SHALL PROVIDE DETAILS, METHODS, MATERIALS, ETC. FOR REVIEW PRIOR TO MAKING TEMPORARY CONNECTIONS. FURNISH AND INSTALL ALL EQUIPMENT AND MATERIALS INCLUDING CONTROL EQUIPMENT, MOTOR STARTERS, BRANCH AND FEEDER CIRCUIT BREAKERS, PANELBOARDS, TRANSFORMERS, ETC. FOR TEMPORARY POWER. COORDINATE WITH THE ELECTRICAL UTILITY COMPANY AS REQUIRED.

7. THE WORK SHALL INCLUDE COMPLETE TESTING OF ALL EQUIPMENT AND WIRING AT THE COMPLETION OF WORK AND ANY MINOR CORRECTIONS, CHANGES OR ADJUSTMENTS NECESSARY FOR THE PROPER FUNCTIONING OF THE SYSTEM AND EQUIPMENT.

8. ALL ELECTRICAL EQUIPMENT SHALL, AT ALL TIMES DURING CONSTRUCTION, BE ADEQUATELY PROTECTED AGAINST MECHANICAL INJURY, OR DAMAGE BY WATER AND/OR THE ELEMENTS. ELECTRICAL EQUIPMENT SHALL NOT BE STORED OUT OF DOORS, BUT SHALL BE STORED IN DRY PERMANENT SHELTERS. IF AN APPARATUS HAS BEEN DAMAGED, OR HAS BEEN SUBJECT TO POSSIBLE INJURY BY WATER OR THE ELEMENTS, SUCH DAMAGE SHALL BE REPLACED AT NO ADDITIONAL COST.

9. DO NOT SCALE ELECTRICAL DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.

10. CIRCUIT LAYOUTS ARE NOT INTENDED TO SHOW THE NUMBER OF FITTINGS, OR OTHER INSTANT ACTION DETAILS, UNLESS NOTED OTHERWISE. THE EXACT ROUTING OF THE MAIN AND BRANCH CIRCUIT RACEWAYS AND CABLES IS THE RESPONSIBILITY OF THE CONTRACTOR. RISER AND GENERAL CIRCUIT ARRANGEMENTS ARE SHOWN SCHEMATICALLY. VDIAGRAMMATICALLY ONLY. THE CONTRACTOR SHALL ROUTE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE INSTALLATION.

11. UNLESS DIMENSIONED, DEVICE LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. ADJUST EXACT LOCATIONS AS REQUIRED TO SERVE THE INTENDED PURPOSE AND TO AVOID CONFLICTS AND INTERFERENCES WITH OTHER TRADES. EXACT DEVICE LOCATIONS SHALL AS BE INDICATED ON THE ARCHITECTURAL DRAWINGS OR AS DIMENSIONED, IF NOT SHOWN ON THE ARCHITECTURAL DRAWINGS OR DIMENSIONED ON THE ELECTRICAL DRAWINGS, VERIFY EXACT LOCATION WITH THE ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.

12. CONDUIT TERMINATING IN PRESSED STEEL BOXES SHALL HAVE DOUBLE LOCKNUTS AND INSULATED BUSHINGS. CONDUITS TERMINATING IN GASKETED ENCLOSURES SHALL BE TERMINATED WITH GROUNDING TYPE CONDUIT HUBS.

13. DEVICE BOXES SHOWN BACK-TO-BACK SHALL BE OFFSET A MINIMUM OF TWELVE (12) INCHES TO REDUCE SOUND TRANSMISSION BETWEEN ROOMS.

14. BRANCH CIRCUIT HOMERUNS SHOWN ON DRAWINGS INDICATE PHASE CONDUCTORS, NEUTRAL, EQUIPMENT GROUND CONDUCTORS AS REQUIRED. ADDITIONAL CONDUCTORS REQUIRED FOR CONTROL SHALL BE INCLUDED EVEN IF NOT EXPLICITLY SHOWN.

15. SEAL ALL CONDUIT OPENINGS THROUGH EXTERIOR BUILDING WALLS WATERTIGHT.

16. IN WET LOCATIONS AND EXTERIOR, ALL WIRING DEVICES SHALL BE WEATHER-RESISTANT LISTED WITH WEATHERPROOF WHILE IN USE COVER. LIGHTING FIXTURES SHALL BE APPROPRIATELY RATED AND LISTED FOR THE ENVIRONMENT INCLUDING 0 DEGREE BALLASTS FOR FLUORESCENT.

17. RACEWAYS PENETRATING FLOORS, CEILINGS OR WALLS SHALL BE PROPERLY SEALED SMOKE/TIGHT.

18. RACEWAYS PENETRATING RATED FLOOR, CEILING OR WALL ASSEMBLIES SHALL BE PROPERLY SEALED IN ACCORDANCE WITH THE CORRESPONDING UNDERWRITERS LABORATORIES (OR OTHER APPROVED THIRD PARTY TESTING AGENCY) APPROVED AND LISTED FIRESTOPPING MATERIALS AND MANUFACTURER APPROVED INSTALLATION TECHNIQUES COMPLYING WITH ALL APPLICABLE CODES. SEE ARCHITECTURAL DRAWINGS FOR IDENTIFICATION OF RATED WALLS AND CEILINGS.

19. ALL RACEWAYS SHALL BE CONCEALED WHERE POSSIBLE.

20. INSTALL EXPOSED RACEWAYS PARALLEL TO OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS, AND FOLLOW THE SURFACE CONTOURS AS MUCH AS POSSIBLE. NO DIAGONAL RUNS WILL BE ALLOWED. ALL CONDUITS SHALL BE RUN STRAIGHT AND TRUE. RUN PARALLEL OR BANKED RACEWAYS TOGETHER ON COMMON SUPPORTS WHERE PRACTICAL. MAKE BENDS IN PARALLEL OR BANKED RUNS FROM SAME CENTERLINE TO MAKE BENDS PARALLEL.

21. PROVIDE AND PLACE ALL SLEEVES FOR CONDUITS PENETRATING WALLS, FLOORS, PARTITIONS, ETC. LOCATE ALL NECESSARY SLOTS FOR ELECTRICAL WORK AND FORM BEFORE CONCRETE IS POURED.

22. PATCHING OF WATERPROOFED SURFACES SHALL RENDER THE AREA OF THE PATCHING COMPLETELY WATERPROOF.

23. ALL MOTORS, DRY TYPE TRANSFORMERS AND OTHER VIBRATING EQUIPMENT SHALL BE LOCATED OUTSIDE THE CONDUIT SYSTEM BY MEANS OF A SHORT SECTION (18 INCH MINIMUM) OF FLEXIBLE CONDUIT UNLESS OTHERWISE INDICATED. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED INSIDE THE FLEXIBLE CONDUIT AND TERMINATE AT THE LOAD END WITH AN APPROVED GROUNDING CLAMP OR LUG.

24. SURFACE MOUNTED PANELBOARDS, JUNCTION, OUTLET AND PULL BOXES, RACEWAYS, ETC., INSTALLED ON EXTERIOR SURFACES OR INSIDE ON EXTERIOR WALLS SHALL BE SUPPORTED BY SPACERS TO PROVIDE A 1/4" MINIMUM CLEARANCE BETWEEN THE WALL AND EQUIPMENT.

25. CEILING MOUNTED DEVICES INSTALLED IN ACOUSTICAL TILE CEILING AREAS SHALL BE SUSPENDED FROM THE STRUCTURE OF THE CEILING. PROVIDE A SUFFICIENT SIZE TO PREVENT VERTICAL MOVEMENT OF THE OUTLET BOX. BRIDGES ALONE ARE NOT ADEQUATE UNLESS SPECIFICALLY APPROVED. CEILING MOUNTED EXLT LIGHT FIXTURES SHALL BE INSTALLED LEVEL. DO NOT SUPPORT DEVICES FROM ACOUSTICAL CEILING TILE.

26. EXCAVATION AND TRENCHING REQUIRED FOR THE INSTALLATION OF ELECTRICAL POWER AND TELECOMMUNICATIONS RACEWAYS SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF DIVISION 26 OF THE PROJECT SPECIFICATIONS.

27. PRIOR TO TRENCHING IN ANY AREA, THE CONTRACTOR SHALL CONTACT ELECTRICAL, COMMUNICATIONS, DATA/FIBER, CABLE TELEVISION, GAS AND WATER UTILITY PROVIDERS AND HAVE ALL UTILITIES IN THE AREA IDENTIFIED. DAMAGE TO ANY UNDERGROUND UTILITIES OR STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.

28. ALL UNDERGROUND RACEWAYS SHALL BE IDENTIFIED BY UNDERGROUND LINE MARKING TAPE LOCATED DIRECTLY ABOVE THE RACEWAY AT 6 TO 8 INCHES BELOW FINISHED GRADE. SEE SPECIFICATIONS SECTION 290553.

29. PROVIDE ADHESIVE BACKED RECEPTACLE DEVICE PLATE LABELS IDENTIFYING THE CIRCUIT FEEDING THE DEVICE. LABELS SHALL INDICATE PANEL AND CIRCUIT NUMBER.

30. FINAL TYPED PANELBOARD DIRECTORIES INSTALLED IN THE PANELBOARD DOOR POCKET SHALL INCLUDE FINAL ACTUAL ROOM NAMES AND NUMBERS IN ADDITION TO THE GENERAL DESCRIPTION SHOWN ON THE PANEL SCHEDULES ON THE DRAWINGS.

31. CONDUCTOR SIZING IS BASED ON 75 DEGREE C COPPER NEC RATINGS, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL VERIFY, PRIOR TO INSTALLATION OF CONDUCTORS OR CONDUIT FEEDING ANY EQUIPMENT, THE ELECTRICAL EQUIPMENT IS RATED FOR USE WITH 75 DEGREE C WIRING. IF ANY EQUIPMENT IS RATED FOR USE WITH LESS THAN 75 DEGREE C CONDUCTORS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY FOR EVALUATION/CORRECTION.

32. DO NOT PULL CONDUCTORS UNTIL THE CONDUIT SYSTEM IS COMPLETE IN EVERY DETAIL. IN THE CASE OF CONCEALED WORK, "COMPLETE" MEANS UNTIL ALL ROUGH PLASTERING OR MASONRY HAS BEEN COMPLETED.

33. WHERE SIZE IS NOT SHOWN ON THE DRAWINGS, BRANCH CIRCUITS SHALL CONSIST OF #12 OR #10 AWG MINIMUM PHASE, NEUTRAL AND EQUIPMENT GROUND CONDUCTORS IN 1/2" MINIMUM RACEWAY.

34. USE #10 AWG CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS WITH A TOTAL INSTALLED LENGTH GREATER THAN 75 FEET AND/OR BRANCH CIRCUIT HOMERUNS LONGER THAN 50 FEET, I.E. #12 AWG INCREASED TO #10 AWG FOR RECEPTACLE PANELBOARDS OVER 75 FEET TOTAL LENGTH (INCLUDING THE HOMERUN SEGMENT) AND HOMERUNS OVER 50 FEET. IF 277 VOLT CIRCUITS ARE SHOWN, USE #10 AWG CONDUCTORS FOR 20 AMPERE, 277 VOLT BRANCH CIRCUITS WITH TOTAL INSTALLED LENGTH GREATER THAN 200 FEET AND/OR BRANCH CIRCUIT HOMERUNS LONGER THAN 125 FEET, I.E. #12 AWG INCREASED TO #10 AWG FOR RECEPTACLE BRANCH CIRCUITS OVER 75 FEET TOTAL LENGTH (INCLUDING THE HOMERUN SEGMENT) AND HOMERUNS OVER 50 FEET.

35. COMMON NEUTRAL MULTIWIRE RECEPTACLE BRANCH CIRCUITS ARE NOT PERMITTED. PROVIDE SEPARATE, INDIVIDUAL NEUTRAL CONDUCTORS FOR MULTIWIRE BRANCH CIRCUITS.

36. KEEP CONDUCTOR SPLICES TO A MINIMUM. INSTALL SPLICES AND TAPES THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN THE CONDUCTORS BEING SPLICED. USE SPLICE AND TAP CONNECTORS COMPATIBLE WITH CONDUCTOR MATERIAL. INSTALL CONDUCTORS AT EACH OUTLET WITH AT LEAST 8 INCHES OF SLACK. CONNECT OUTLETS AND COMPONENTS TO WIRING AND TO GROUND AS INDICATED AND INSTRUCTED BY THE MANUFACTURER.

37. DO NOT SPICE BRANCH CIRCUIT HOMERUNS WITHOUT THE PERMISSION OF THE ARCHITECT/ENGINEER. HOMERUNS SHALL BE CONTINUOUS FROM THE LAST OUTLET BOX TO THE SERVING PANELBOARD.

38. DO NOT COMBINE BRANCH CIRCUIT HOMERUNS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS.

39. DO NOT CHANGE CIRCUITING SHOWN WITHOUT PERMISSION OF THE ARCHITECT/ENGINEER.

40. TROUGH TAPS SHALL BE AT SWITCH AMPACITY, UNLESS NOTED OTHERWISE.

41. INSTALL WIRING DEVICES AT HEIGHTS AS SHOWN ON THE DRAWINGS. ALSO COORDINATE MOUNTING HEIGHTS WITH THE ARCHITECTURAL DRAWINGS AND CASEWORK DETAILS. IF CONFLICTING, ARCHITECTURAL DRAWINGS AND DETAILS SHALL GOVERN.

42. PROVIDE GROUND FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL IN ACCORDANCE WITH THE NEC INCLUDING ALL ELECTRIC WATER COOLERS, EXTERIOR RECEPTACLES AND RECEPTACLES IN AREAS SUBJECT TO POSSIBLE WET CONDITIONS. ALL RECEPTACLES INSTALLED WITHIN 6 FEET OF A SINK SHALL BE GFI PROTECTED. ALL RECEPTACLES IN NON-RESIDENTIAL KITCHENS SHALL BE GFI PROTECTED.

43. CONNECT BATTERY PACK TYPE EMERGENCY AND EXIT LIGHTING FIXTURES TO THE UNSWITCHED LIGHTING CIRCUIT SERVING THE SPACE LIGHTED BY THE EMERGENCY AND EXIT FIXTURES. THESE CONNECTIONS ARE INTENTIONALLY NOT SHOWN TO MAINTAIN DRAWING FOR CLARITY.

44. COORDINATE LIGHTING FIXTURE LOCATIONS WITH THE ARCHITECTURAL REFLECTED CEILING PLAN. IF CONFLICTS ARE NOTED, REQUEST CLARIFICATION FROM THE ARCHITECT/ENGINEER BEFORE PROCEEDING.

45. ADJACENT SWITCHES SHALL BE GANGED. INSTALL BARRIERS BETWEEN UNLIKE VOLTAGE SECTIONS.

46. SEPARATE NEUTRALS ARE REQUIRED FOR ALL DIMMED LIGHTING CIRCUITS.

47. WHERE THE DRAWINGS INDICATE A LIGHTING FIXTURE IS TO BE PROVIDED WITH SPECIAL FEATURES/SWITCHING (DIMMING, EMERGENCY BATTERY, MULTI-LEVEL, ETC), THE CONTRACTOR SHALL PROVIDE THESE FIXTURES WITH THE APPROPRIATE BALLASTS TO ACCOMMODATE THE SPECIAL FEATURE. THE CONTRACTOR SHALL PROVIDE THE FIXTURES AS INDICATED IN THE LIGHTING FIXTURE SCHEDULE WITH MODIFICATIONS AS REQUIRED BY DRAWING NOTES.

48. COORDINATE LOCATIONS OF PLUMBING, MECHANICAL, ELEVATOR, DATA AND TELEPHONE AND AUDIO/VISUAL EQUIPMENT AND OF OWNER-PROVIDED EQUIPMENT WITH THE ELECTRICAL CONTRACTORS. PRIOR TO ORDERING OR INSTALLATION OF ANY EQUIPMENT, TO VERIFY MECHANICAL AND PLUMBING EQUIPMENT REQUIREMENTS ARE PROVIDED IN THE ELECTRICAL DESIGN. THE CONTRACTOR WILL NOT BE COMPENSATED FOR COSTS ASSOCIATED WITH CHANGING THE ELECTRICAL SYSTEMS TO MATCH UTILIZATION EQUIPMENT, EVEN IF THE ELECTRICAL WORK IS INSTALLED PER THE ELECTRICAL DRAWINGS.

49. BEFORE COMMENCING WORK OR ORDERING MATERIALS, THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND VERIFY THE NAMEPLATE RATINGS OF ALL EQUIPMENT (MOTORS, HEATERS, COMPRESSORS, ETC.) AND ADJUST THE RATINGS OF THE ELECTRICAL EQUIPMENT (SWITCHES, FUSES, CIRCUIT BREAKERS, FEEDERS, ETC.) AS APPROPRIATE TO SERVE THIS EQUIPMENT.

50. ENERGIZE EQUIPMENT ONLY AFTER OBTAINING PERMISSION FROM THE CONTRACTOR PROVIDING THE EQUIPMENT.

51. UNLESS SPECIFICALLY NOTED OTHERWISE, THE ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL UTILIZATION EQUIPMENT SHOWN ON THE DRAWINGS. VERIFY THE TYPE OF FINAL CONNECTION AND PROVIDE APPROPRIATE WIRING METHOD. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL, PLUMBING AND GENERAL CONTRACTORS, PRIOR TO ORDERING OR INSTALLATION OF ANY EQUIPMENT, TO VERIFY MECHANICAL AND PLUMBING EQUIPMENT REQUIREMENTS ARE PROVIDED IN THE ELECTRICAL DESIGN. THE CONTRACTOR WILL NOT BE COMPENSATED FOR COSTS ASSOCIATED WITH CHANGING THE ELECTRICAL SYSTEMS TO MATCH UTILIZATION EQUIPMENT, EVEN IF THE ELECTRICAL WORK IS INSTALLED PER THE ELECTRICAL DRAWINGS.

52. THE MECHANICAL AND PLUMBING CONTRACTORS SHALL FURNISH ALL STARTERS AND CONTROLS FOR THEIR EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL MOUNT STARTERS FURNISHED BY THE MECHANICAL AND PLUMBING CONTRACTORS, THE ELECTRICAL CONTRACTOR PROVIDE ALL SAFETY SWITCHES, WIRING AND CONNECTIONS TO LINE SIDE AND LOAD SIDE OF STARTERS AND SAFETY SWITCHES COMPLETE TO MECHANICAL EQUIPMENT. FOR RESISTANCE TYPE LOADS WHERE STARTERS OR CONTACTORS ARE NOT REQUIRED, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POWER WIRING AND CONNECTIONS COMPLETE TO EQUIPMENT. THE MECHANICAL AND PLUMBING CONTRACTORS SHALL PROVIDE ALL CONTROL WIRING AND CONNECTIONS AND DEVICES FOR THEIR EQUIPMENT.

53. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL EQUIPMENT TERMINATIONS, PLUGS AND CORDSETS WITH VENDOR EQUIPMENT AND VERIFY ALL DEVICE LOCATIONS FOR SPECIALTY EQUIPMENT WITH CASEWORK PRIOR TO ROUGH-IN.

54. THE LAYOUT AND PLACEMENT OF ELECTRICAL DISTRIBUTION EQUIPMENT IN ELECTRICAL EQUIPMENT ROOMS IS BASED ON THE EXACT ROUTING OF THE PUBLISHED EQUIPMENT SIZES AND SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. DEVIATIONS FROM CONFIGURATIONS SHOWN IS THE RESPONSIBILITY OF THE CONTRACTOR. PROVIDE NATIONAL ELECTRIC CODE REQUIREMENTS FOR ELECTRICAL EQUIPMENT. PROVIDE NATIONAL ELECTRICAL CODE REQUIREMENTS FOR SAFETY SWITCHES, SWITCHBOARDS, ETC. COORDINATE RESOLUTION OF CONFLICTS WITH OTHER TRADES. ADVISE THE ARCHITECT/ENGINEER OF CONFLICTS BEFORE ROUGH-IN.

55. COORDINATION WITH THE UTILITY COMPANY FOR PLACEMENT OF THE UTILITY'S FACILITIES AND THE CONTRACTOR'S SERVICE ENTRANCE RACEWAYS AND CONNECTIONS TO THE CONTRACTOR'S SERVICE ENTRANCE CONDUCTORS IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

56. TELECOMMUNICATIONS AND DATA CABLES WILL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. LEAVE PULL WIRES OR ROPES OF ADEQUATE TENSILE STRENGTH IN ALL EMPTY CONDUITS.

57. PROVIDE TELEPHONE, FIBER AND DATA SERVICE ENTRANCE CONDUIT IN SIZES AND LOCATIONS FOR MOBILE UNITS AS SHOWN ON THE DRAWINGS AND AS REQUIRED BY THE OWNER AND THE SERVICE UTILITIES. UTILITY SERVICE ENTRANCE CABLES WILL BE PROVIDED AND INSTALLED BY THE OWNERS SERVICE UTILITIES. LEAVE PULL WIRES OR ROPES OF ADEQUATE TENSILE STRENGTH IN ALL EMPTY CONDUITS.

58. EXACT SPACING OF SMOKE AND HEAT DETECTORS AND AV DEVICES SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE WITH POSITIONS SHOWN ON THE DRAWINGS. DETECTOR SPACING IS BASED UPON NFPA 72 INCLUDING APPENDIX A. SLIGHT ADJUSTMENTS MAY BE MADE IN SPACING IF REQUIRED BY FIELD CONDITIONS, BUT SPACING SHALL NOT EXCEED ADA, NFPA AND EQUIPMENT MANUFACTURERS SPACING CRITERIA. DO NOT INSTALL SMOKE DETECTORS WITHIN 3 FEET OF SUPPLY AIR DIFFUSERS OR RETURN GRILLS. PROVIDE FLEX CONDUIT CONNECTION TO SMOKE AND HEAT DETECTORS OF ADEQUATE LENGTH TO ALLOW HORIZONTAL ADJUSTMENT OF FOUR FEET FROM POSITION INDICATED ON DRAWINGS.

59. INSTALLATION INFORMATION PACKED WITH LIGHTING FIXTURES, DEVICES AND EQUIPMENT SHALL BE RETAINED FOR INCLUSION IN THE OPERATIONS AND MAINTENANCE MANUALS.

60. SAFETY: COMPLY WITH OSHA AND NEC ARC FLASH PROTECTION REQUIREMENTS.

61. ALL SWITCHES, RECEPTACLE AND LIGHTS SHALL COMPLY WITH ANSI 117.2 FOR ADA REQUIREMENTS.

62. THE ELECTRICAL CONTRACTOR AND ALL SUB CONTRACTORS WORKING FOR THE ELECTRICAL CONTRACTOR ARE RESPONSIBLE FOR COMMISSIONING EACH SYSTEM INDICATED IN THESE DRAWINGS. THE ELECTRICAL CONTRACTOR AND ALL SUB CONTRACTORS WORKING FOR THE ELECTRICAL CONTRACTOR ARE RESPONSIBLE FOR PROVIDING A COMPLETE OPERATIONAL SYSTEM TO OWNER. THE SYSTEMS WILL NOT BE CONSIDERED OPERATIONAL UNTIL THE OWNER HAS APPROVED EACH SYSTEM.

63. INSTALL COLOR CODED CEILING TACKS IN ACOUSTICAL TILE CEILINGS OR COLOR CODED TAPE ON CEILING GRID TO IDENTIFY LOCATION OF ELECTRICAL EQUIPMENT, DISCONNECTS, LIGHTING CONTROLLERS AND POWER PACKS ETC., THAT REQUIRE REGULAR MAINTENANCE OR ARE PART OF A LIFE SAFETY SYSTEM. DOTS SHALL BE PLACED ON CEILING GRID.

64. MC CABLE WITH INSULATED GROUND CONDUITS MAY BE USED FOR BRANCH CIRCUITS. DO NOT USE WHERE SUBJECT TO PHYSICAL DAMAGE OR WHERE EXPOSED TO CORROSIVE CONDITIONS.
- DEMOLITION NOTES
1. SELECTIVE ELECTRICAL DEMOLITION SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AS DESCRIBED HEREIN AND AS SHOWN ON THE CONTRACT DRAWINGS. GROSS DEMOLITION WILL BE PROVIDED BY THE GENERAL CONTRACTOR. IDENTIFY ACTIVE UTILITIES, AND AT THE APPROPRIATE TIME, DISCONNECT AND CAP OFF SUCH UTILITIES AND PROVIDE EXPERIENCED PERSONNEL ON SITE DURING GENERAL CONTRACTOR DEMOLITION OPERATIONS TO PERFORM SUCH OPERATIONS AND RESOLVE ISSUES. REMOVE MATERIALS NOTED FOR SALVAGE AND REUSE. IDENTIFY AND MARK WIRING AND DEVICES TO REMAIN FOR THE GENERAL CONTRACTOR.

2. THE ELECTRICAL CONTRACTOR SHALL REVIEW THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR DEMOLITION REQUIREMENTS AND CARRY OUT HIS WORK IN A COMPATIBLE AND COMPLEMENTARY MANNER. REMOVE ALL WIRING DEVICES, BOXES, FIXTURES, EXPOSED ABANDONED RACEWAYS, HANGARS, ETC., AND THOSE MADE OBSOLETE BY THESE ALTERATIONS AND AS SHOWN ON THE ELECTRICAL DRAWINGS. ALL ITEMS TO BE REMOVED OR MODIFIED MAY NOT BE SHOWN, HOWEVER, THIS CONTRACTOR SHALL REMOVE ANY ELECTRICAL WORK AS REQUIRED BY THE CONSTRUCTION OR AS DIRECTED BY THE OWNER OR ARCHITECT/ENGINEER. SURVEY THE AFFECTED AREAS BEFORE SUBMITTING A BID AS ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DEPCTED ON THE DRAWINGS AND SOME UNUSUAL CONDITIONS MAY EXIST.

3. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.

4. ALL EXISTING ELECTRICAL EQUIPMENT AND DEVICES SHALL REMAIN UNLESS SPECIFICALLY NOTED TO BE REMOVED.

5. VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS ARE AS SHOWN ON DRAWINGS.

6. VERIFY THAT ABANDONED WIRING AND EQUIPMENT SERVE ONLY ABANDONED FACILITIES.

7. DISCONNECT AND/OR DE-ENERGIZE ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL.

8. PROVIDE TEMPORARY AND/OR PERMANENT WIRING AND CONNECTIONS AS SHOWN AND/OR AS REQUIRED BY CONDITIONS TO MAINTAIN ADEQUATE SERVICE DURING CONSTRUCTION. WHEN WORK IS NOT TO BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, AND WHEN SUCH WORK IS SPECIFICALLY APPROVED BY THE OWNER AND PERMITTED BY REGULATORY AUTHORITIES, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.

9. EXISTING ELECTRICAL SERVICE: COORDINATE POWER OUTAGES WITH THE OWNER AND UTILITY COMPANY. MAINTAIN EXISTING SYSTEMS IN SERVICE. DISABLE SYSTEMS ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM THE OWNER AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.

10. CONTINUOUS SERVICE IS REQUIRED ON ALL CIRCUITS AND OUTLETS AFFECTED BY THESE CHANGES, EXCEPT WHERE THE OWNER WILL PERMIT AN OUTAGE FOR A SPECIFIC TIME. OBTAIN OWNERS CONSENT BEFORE REMOVING ANY CIRCUIT FROM CONTINUOUS SERVICE.

11. PROTECT ALL EXISTING TELEPHONE, DATA, LIFE SAFETY SYSTEMS, FIRE ALARM, SECURITY, ACCESS CONTROL AND PUBLIC ADDRESS SYSTEMS AND MAINTAIN THEM IN OPERATION THROUGHOUT THE PROGRESS OF THE WORK. NOTIFY THE OWNER AND ARCHITECT/ENGINEER IN WRITING IF SHUTDOWNS ARE REQUIRED PRIOR TO ANY OUTAGE OF SERVICE. WHERE THE DURATION OF A PROPOSED OUTAGE CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO MAINTAIN SERVICE.

12. WHERE ELECTRICAL SYSTEMS PASS THROUGH THE DEMOLITION AREA TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE PROTECTED FROM DAMAGE AND REMAIN OR BE SUITABLY RELOCATED UTILIZING MATCHING SIZE AND TYPE MATERIALS AND THE SYSTEM RESTORED TO NORMAL OPERATION. ADVISE THE ARCHITECT/ENGINEER IMMEDIATELY IF SUCH CONDITIONS ARE UNCOVERED BEFORE PROCEEDING WITH ADDITIONAL WORK.

13. EXISTING FIRE ALARM SYSTEM: COORDINATE WORK WITH THE OWNERS FIRE ALARM SYSTEM VENDOR AND MAINTAIN THE EXISTING SYSTEM IN SERVICE. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. NOTIFY THE OWNER AND LOCAL FIRE SERVICE AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. LIMIT OUTAGES TO NORMAL BUSINESS HOURS ONLY AND MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.

14. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.

15. ENDS OF ALL CONDUITS TO REMAIN SHALL BE TIGHTLY PLUGGED TO EXCLUDE DUST AND MOISTURE WHILE THE BUILDING IS UNDER RENOVATION.

16. PROTECT EXISTING CIRCUITS TO REMAIN AND EXTEND AS REQUIRED UTILIZING MATCHING CONDUCTORS AND CONDUIT SIZE AND TYPE.

17. SECURE ALL CIRCUITS, RACEWAYS, CABLE AND CONDUCTORS THAT, AS A RESULT FROM THIS CONSTRUCTION, ARE ABANDONED OR UNUSED. REMOVE UNUSED EXPOSED CONDUIT AND WIRING BACK TO POINT OF CONJUNCTION INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILINGS. REMOVE UNUSED WIRING IN CONCEALED CONDUITS BACK TO SOURCE OR NEAREST POINT OF USAGE. BLANK ABANDONED KNOCKOUTS IN REMAINING BOXES. INSTALL BLANK PLATES FOR ALL UNUSED OUTLETS THAT WILL REMAIN AS A RESULT OF THIS CONSTRUCTION. ALL SUCH WORK SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.

18. TRACE OUT EXISTING WIRING THAT IS TO BE RELOCATED OR REMOVED AND PERFORM THE RELOCATION OR REMOVAL WORK AS REQUIRED FOR A COMPLETE OPERATING AND SAFE SYSTEM.

19. RECONNECT EXISTING CIRCUITS SEPARATED AS A RESULT OF THIS CONSTRUCTION.

20. EXTEND EXISTING SWITCH LEGS TO NEW SWITCH LOCATIONS AS SHOWN AND/OR REQUIRED.

21. DELIVER ALL REMOVED AND SALVAGED LIGHTING FIXTURES, WIRING DEVICES, FIRE ALARM DEVICES, SPEAKERS, ETC., TO THE OWNER, OR AT THE OWNERS OPTION, DISPOSE OF PROPERLY OFF SITE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS. FEES ASSOCIATED WITH DISPOSAL SHALL BE INCLUDED IN THE CONTRACTORS BASE BID.

22. REMOVE ALL FLUSH MOUNTED DEVICES THAT CONFLICT WITH NEW CONSTRUCTION AND SECURE THEIR ASSOCIATED BRANCH CIRCUITS.

23. COORDINATE WITH THE OTHER TRADES. PRIOR TO BID, AND INCLUDE IN THE BASE BID THE ELECTRICAL DISTINCTION OF ANY EQUIPMENT BEING DISOUBLED, EVEN IF NOT EXPLICITLY SHOWN. UNLESS NOTED OTHERWISE, REMOVE ALL DEMOLISHED EQUIPMENT FROM THE PROPERTY AND IDENTIFIED IN THE ELECTRICAL DRAWINGS.

24. THESE DRAWINGS ARE COMPLIED BY THE ARCHITECT/ENGINEER FROM THE OWNERS RECORD DRAWINGS AND LIMITED FIELD VERIFICATION OF EXISTING CONDITIONS FOR THE PURPOSE OF INDICATING THE WORK REQUIRED AND ARE BELIEVED TO BE CORRECT. NOTWITHSTANDING, THE CONTRACTOR SHALL VERIFY ALL CIRCUITS, WIRING, CONDUIT, DIMENSIONS, POINTS OF ACCESS AND ALL FIELD CONDITIONS AFFECTING HIS WORK. BEGINNING OF DEMOLITION MEANS THE CONTRACTOR ACCEPTS EXISTING CONDITIONS.

25. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF ALL LAMPs CONTAINING MERCURY IN A LINED LANDFILL IN ACCORDANCE WITH NC GEN STATUTE 38B.10M.

26. SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
- ELECTRICAL SYMBOL LEGEND
- 
- 
- 1 NAME PLATE - EQUIPMENT  
NO SCALE
- 
- 3 LABELING DETAIL  
NO SCALE
- ELECTRICAL ABBREVIATIONS LIST
- |        |                               |       |                                       |        |   |      |                                    |          |                                |
|--------|-------------------------------|-------|---------------------------------------|--------|---|------|------------------------------------|----------|--------------------------------|
| 1P     | 1 POLE (2P, 3P, 4P, ETC.)     | DOP   | DOMESTIC WATER CIRCULATING PUMP       | HT     | HEIGHT                                    | NEMA | NATIONAL ELECTRICAL ASSOCIATION    | SWBD     | SWITCHBOARD                    |
| AC     | AMPERE                        | DEPT  | DEPARTMENT                            | HTR    | HEATER                                    | NFBS | NON-FUSED SAFETY DISCONNECT SWITCH | SW       | SYMMETRICAL SYSTEM             |
| ACG    | ABOVE CEILING                 | DET   | DETAIL                                | HV     | HIGH VOLTAGE                              | NIC  | NOT IN CONTACT                     | TEL      | TELEPHONE                      |
| ADO    | AUTOMATIC DOOR OPENER         | DISC  | DISCONNECT                            | HVC    | HEATING, VENTILATING AND AIR CONDITIONING | NLC  | NIGHT LIGHT                        | TELATA   | TELEPHONE/ATA                  |
| ADP    | AIR FRAME                     | DIST  | DISTRIBUTION                          | HWP    | HYDRAONIC WATER PUMP                      | NLO  | NORMALLY OPEN                      | TERMINAL | TERMINAL                       |
| AFF    | ABOVE FINISHED FLOOR          | DPR   | DAMPEN                                | IC     | INTER interrupting CAPACITY               | NPF  | NORMAL POWER FACTOR                | T-STAT   | THERMOSTAT                     |
| AFG    | ABOVE FINISHED GRADE          | DS    | SAFETY DISCONNECT SWITCH              | IG     | ISOLATED GROUND                           | NTS  | NOT TO SCALE                       | TTC      | TELEPHONE TERMINAL             |
| AFI    | AIR FAULT CIRCUIT INTERRUPTER | DT    | DOUBLE THROW                          | INCAND | INCANDESCENT                              | OL   | OVERLOADS                          | TV       | TELEVISION                     |
| AHJ    | AIR HANDLING UNIT             | DWG   | DRAWING                               | IN     | INWARD                                    | PA   | PUBLIC ADDRESS                     | TVT      | TELEVISION TERMINAL            |
| AL     | ALUMINUM                      | EC    | ELECTRICAL CONTRACTOR                 | INT    | INTERLOCK WITH SUPPLY PANEL               | PB   | PULL BOX OR PUSHBUTTON             | TYP      | TYPICAL                        |
| ALT    | ALTERNATE                     | ELEC  | ELECTRIC                              | JBOX   | JUNCTION BOX                              | PE   | PNEUMATIC ELECTRIC                 | UG       | UNDER GROUND                   |
| AMP    | AMPERE                        | ELEV  | ELEVATOR                              | KV     | KILOVOLT                                  | PEO  | PERISTALTIC PUMP FACTOR            | UG       | UNDERGROUND                    |
| AMPX   | AMPLIFIER                     | EM    | EMERGENCY                             | KVA    | KILOVOLT-AMPERE                           | PH   | PHASE                              | UT       | UTILITY                        |
| APPROX | APPROXIMATELY                 | EMT   | ELECTRICAL METALLIC TUBING            | KVAR   | KILOVOLT-AMPERE REACTIVE                  | PV   | POST INDICATING VALVE              | UV       | UNIT VENTILATOR OR ULTRAVIOLET |
| ASQ    | AIR QUALITY                   | ENR   | ELECTRIC NEUTRAL                      | KWH    | KILOWATT-HOUR                             | PI   | POWER POLE                         | V        | VOLT                           |
| ARCH   | ARCHITECT, ARCHITECTURAL      | EQUIP | EQUIPMENT                             | KW     | KILOWATT                                  | PRO  | PROJECTION                         | V        | VOLTA                          |
| AS     | AIR SWITCH                    | ENC   | ELECTRIC WATER COOLER                 | KWH    | KILOWATT-HOUR                             | PROJ | POWER ROOF VENTILATOR              | VOL      | VOLTA                          |
| AT     | AIR TRIP                      | EXIST | EXISTING                              | LOC    | LOCATE OR LOCATION                        | PT   | POTENTIAL TRANSFORMER              | VOL      | VOLTA                          |
| ATS    | AUTOMATIC TRANSFER SWITCH     | EXP   | EXPLOSION PROOF                       | L      | LOW                                       | PVC  | POLY VINYL CHLORIDE (CONDUIT)      | VOL      | VOLTA                          |
| AUX    | AUXILIARY                     | FA    | FIRE ALARM                            | LIT    | LIGHT                                     | PWR  | POWER                              | W        | WATT                           |
| AV     | AUDIO VISUAL                  | FAMP  | FIRE ALARM BOOSTER POWER SUPPLY PANEL | LNG    | LIGHTING                                  | Q    | QUANTITY                           | W        | WATT                           |
| AWG    | AMERICAN WIRE GAUGE           | FAN   | FAN COIL UNIT                         | LV     | LOW VOLTAGE                               | Q    | QUANTITY                           | W        | WATT                           |
| BATT   | BATTERY                       | FACP  | FIRE ALARM CONTROL PANEL              | MAX    | MAXIMUM                                   | RCP  | RECEPTACLE                         | WG       | WIRE GUARD                     |
| BD     | BUILDING                      | FAN   | FAN COIL UNIT                         | MAGS   | MAGNETIC STARTER                          | REQD | REQUIRED                           | WO       | WITHOUT                        |
| BLDG   | BUILDING                      | FIXT  | FIXTURE                               | MC     | MECHANICAL CONTRACTOR                     | RTO  | ROOF TOP UNIT                      | WP       | WEATHERPROOF                   |
| BMS    | BUILDING MANAGEMENT SYSTEM    | FLR   | FLOOR                                 | MCS    | MECHANICAL SYSTEM                         | RTU  | ROOF TOP UNIT                      | XFR      | TRANSFER                       |
| C      | CONDUIT                       | FUS   | FUSE                                  | MCC    | MOTOR CONTROL CENTER                      | SEC  | SECONDARY                          |          |                                |
| CAB    | CABINET                       | FUSB  | FUSED SAFETY DISCONNECT SWITCH        | MDC    | MAIN DISTRIBUTION CENTER                  | SEC  | SECONDARY                          |          |                                |
| CAT    | CATALOG                       | FUSB  | FUSED SAFETY DISCONNECT SWITCH        | MDF    | MAIN DISTRIBUTION PANEL                   | SEC  | SECONDARY                          |          |                                |
| CATV   | CABLE TELEVISION              | GALV  | GALVANIZED                            | MFS    | MAIN FUSED DISCONNECT SWITCH              | SEC  | SECONDARY                          |          |                                |
| CB     | CIRCUIT BREAKER               | GALV  | GALVANIZED                            | MH     | MANHOLE                                   | SEC  | SECONDARY                          |          |                                |
| CCV    | CLOSED CIRCUIT TELEVISION     | GEN   | GENERATOR                             | MIC    | MICROPHONE                                | SEC  | SECONDARY                          |          |                                |
| CKT    | CIRCUIT                       | GEN   | GENERATOR                             | MIS    | MISCELLANEOUS                             | SEC  | SECONDARY                          |          |                                |
| CLG    | CEILING                       | GFP   | GROUND FAULT CIRCUIT INTERRUPTER      | MIS    | MISCELLANEOUS                             | SEC  | SECONDARY                          |          |                                |
| COMB   | COMBINATION                   | GFP   | GROUND FAULT CIRCUIT INTERRUPTER      | MIS    | MISCELLANEOUS                             | SEC  | SECONDARY                          |          |                                |
| COMP   | COMPRESSOR                    | GFR   | GROUND FAULT CIRCUIT INTERRUPTER      | MIS    | MISCELLANEOUS                             | SEC  | SECONDARY                          |          |                                |
| CONN   | CONNECTION                    | GFR   | GROUND FAULT CIRCUIT INTERRUPTER      | MIS    | MISCELLANEOUS                             | SEC  | SECONDARY                          |          |                                |
| CONT   | CONTINUATION                  | GFR   | GROUND FAULT CIRCUIT INTERRUPTER      | MIS    | MISCELLANEOUS                             | SEC  | SECONDARY                          |          |                                |
| CONTR  | CONTRIBUTION                  | GFR   | GROUND FAULT CIRCUIT INTERRUPTER      | MIS    | MISCELLANEOUS                             | SEC  | SECONDARY                          |          |                                |
| CONV   | CONVEYOR                      | GFR   | GROUND FAULT CIRCUIT INTERRUPTER      | MIS    | MISCELLANEOUS                             | SEC  | SECONDARY                          |          |                                |
| CP     | CIRCULATING PUMP              | GFR   | GROUND FAULT CIRCUIT INTERRUPTER      | MIS    | MISCELLANEOUS                             | SEC  | SECONDARY                          |          |                                |
| CR     | CATHODE RAY TUBE              | GFR   | GROUND FAULT CIRCUIT INTERRUPTER      | MIS    | MISCELLANEOUS                             | SEC  | SECONDARY                          |          |                                |
| CT     | CURRENT TRANSFORMER           | GFR   | GROUND FAULT CIRCUIT INTERRUPTER      | MIS    | MISCELLANEOUS                             | SEC  | SECONDARY                          |          |                                |
| CTR    | CENTER                        | GFR   | GROUND FAULT CIRCUIT INTERRUPTER      | MIS    | MISCELLANEOUS                             | SEC  | SECONDARY                          |          |                                |
| CU     | COPPER                        | GFR   | GROUND FAULT CIRCUIT INTERRUPTER      | MIS    | MISCELLANEOUS                             | SEC  | SECONDARY                          |          |                                |
- Branch Panel: (X)PF2
- |                        |                                   |                             |      |                 |         |           |         |          |       |  |               |                     |  |                    |  |
|------------------------|-----------------------------------|-----------------------------|------|-----------------|---------|-----------|---------|----------|-------|--|---------------|---------------------|--|--------------------|--|
| Location: Supply Panel |                                   | Mounting: Enclosure: NEMA 1 |      | Volts: 208Y/120 |         | Phases: 3 |         | Wires: 4 |       | A.I.C. Rating: 10,000 AMPS SYMMETRICAL |               | Main Rating: 60.0 A |  | MCB Rating: 60.0 A |  |
| Notes:                 |                                   |                             |      |                 |         |           |         |          |       |  |               |                     |  |                    |  |
| CKT                    |                                   | Circuit Description         | Trip | Poles           | A       | B         | C       | Poles    | Trip  | Circuit Description                    | CKT           |                     |  |                    |  |
| 1                      | (X)XHAUST FAN F-14                | 15.0 A                      | 1    | 0 V A           | 0 V A   |           |         |          |       | (X)VENDING MACHINE                     | 2             |                     |  |                    |  |
| 2                      | (X)XHAUST FAN F-15                | 15.0 A                      | 1    |                 | 0 V A   | 0 V A     |         |          |       |  | 4             |                     |  |                    |  |
| 3                      | PV01 D.S. ON ROOF                 | 20.0 A                      | 1    |                 |         |           |         |          |       |  | 6             |                     |  |                    |  |
| 7                      | (X)COMPUTER LAB                   | 20.0 A                      | 1    | 0 V A           | 0 V A   |           | 768 V A | 0 V A    | 2     | 25.0 A                                 | (X)MINI-SPLIT | 8                   |  |                    |  |
| 9                      | RCPT: ON ROO AT PV01 (NOTE 1 & 2) | 20.0 A                      | 1    |                 | 180 V A | 0 V A     |         |          | --    | --                                     | SPACE         | 10                  |  |                    |  |
| 11                     | RCPT: ON HOOD RM [413] (NOTE 2)   | 20.0 A                      | 1    |                 |         | 180 V A   | 0 V A   | --       | --    | SPACE                                  | 12            |                     |  |                    |  |
| 13                     | SPACE                             | --                          | --   | 0 V A           | 0 V A   |           |         | --       | --    | SPACE                                  | 14            |                     |  |                    |  |
| 15                     | SPACE                             | --                          | --   |                 | 0 V A   | 0 V A     |         | 0 V A    | 0 V A | --                                     | SPACE         | 16                  |  |                    |  |

3 CLASSROOM ADDITION ATTIC  
FLOOR PLAN - POWER

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

DEMOLITION KEYED NOTES

1	DUPLEX RECEPTACLE: REMOVE RECEPTACLE AND COVERPLATE, REMOVE CONDUCTORS TO NEAREST POINT OF USE, ALL UPSTREAM AND DOWN STREAM DEVICES ON THIS CIRCUIT MUST REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE UNLESS SPECIFICALLY INDICATED TO BE DEMOLISHED.
2	DATA OUTLET: DISCONNECT AND REMOVE DATA CABLES COMPLETE TO SOURCE, REMOVE DATA FACE PLATE.

4 CLASSROOM RENOVATION  
FLOOR PLAN - POWER

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

2 CLASSROOM RENOVATION  
ROOF PLAN - HVAC

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

1 CLASSROOM RENOVATION  
FLOOR PLAN - POWER

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

Mark	Date	Description
04.23.20	ISSUED FOR BIDDING	
03.26.20	100% REVIEW SUBMISSION	
01.22.20	60% CD PROGRESS DRAWINGS	
10.14.19	NC DPI SD SUBMISSION	
07.30.19	SD PROGRESS DRAWINGS	
07.11.19	NC DPI SD SUBMISSION	

PROJECT NO: 2019082.00  
DATE: 10.14.2019  
SCALE: 1/8" = 1'-0"

DRAWN BY: HGH PROJ MGR: WAC

