PHS INTENSIVE INTERVENTION CLASSROOMS RENOVATION

HAYWOOD COUNTY CONSOLIDATED SCHOOLS

CONTACTS

OWNER REPRESENTATIVE

JOE BUCHANAN
DIRECTOR OF MAINTENANCE
401 FARMVIEW DRIVE
WAYNESVILLE, NC 28786
828.656.2402
JOEBUCHANAN@HAYWOOD.K12.NC.US

ARCHITECT

MARK LUSK ARCHITECTURE PLLC 128 WOODBURN DRIVE SWANNANOA, NC 28778 828.808.9757 MLARCHITECTURE@CHARTER.NET

ENGINEERS

REECE, NOLAND & MCELRATH, INC 94 MAIN STREET CANTON, NC 28716 828.492.0677

	LIST OF DRAWINGS
T101	COVER SHEET
	ARCHITECTURAL
A201 A301	FLOOR PLANS DETAILS
	PLUMBING
P101 P102	PLUMBING SCHEDULES, NOTES & DETAILS PLUMBING FLOOR PLAN
	MECHANICAL
M101 M201	MECHANICAL SPECIFICATIONS, NOTES & SYMBOLS MECHANICAL PLANS
	ELECTRICAL
E101 E201 E301 E401	ELECTRICAL SPECIFICATIONS, NOTES & SYMBOLS ELECTRICAL DEMOLITION PLAN & NOTES ELECTRICAL LIGHTING & POWER PLANS ELECTRICAL PANEL SCHEDULE & RISER

2018 APPENDIX B:

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

NAME OF PROJECT: PHS INTENSIVE INTERVENTION CLASSROOMS RENOVATION

ADDRESS: 1 BLACK BEAR DRIVE; CANTON, NC 28716

OWNER/AUTHORIZED AGENT: JOE BUCHANAN
PHONE #: (828) 456-2402
E-MAIL: JOEBUCHANAN@HAYWOOD.K12.NC.US

OWNED BY: CITY/COUNTY
CODE ENFORCEMENT JURISDICTION: HAYWOOD COUNTY

CONTACT: MARK LUSK ARCHITECTURE, LLC.

NAME: MARK LUSK, AIA

LICENSE #: 8685

TELEPHONE #:828.808.9757

E-MAIL: MLARCHITECTURE@CHARTER.NET

ELECTRICAL: RN&M ENGINEERS

2018 NORTH CAROLINA EXISTING BUILDING CODE: EXISTING:

ALTERATION: LEVEL II
CONSTRUCTED: 2013
CURRENT OCCUPANCY: EDUCATIONAL

RISK CATEGORY:

CURRENT: III
PROPOSED: III

BASIC BUILDING DATA:

CONSTRUCTION TYPE: II-B
SPRINKLERS: NO
STANDPIPES: NO
FIRE DISTRICT: NO
SPECIAL INSPECTIONS REQUIRED: NO

GROSS BUILDING AREA:

1ST FLOOR:

EXISTING: 11,937 SF NEW: 0 SF SUB-TOTAL: 11,937 SF

TOTAL: 11,937 SF



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128 WOODBURN DR SWANNANOA, NC 28778



PHS INTENSIVE INTERVENTION CLASSROOMS RENOVATION

Project Number: 19012
Checked:

Drawn: <u>A. Rognas</u>

Date: 10/8/19

COVER SHEET

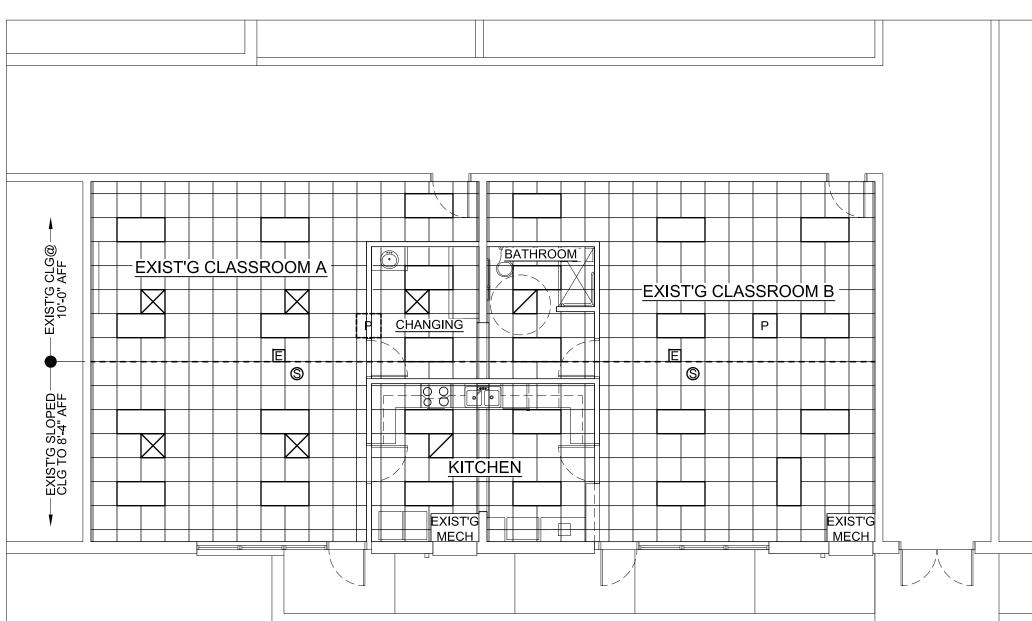
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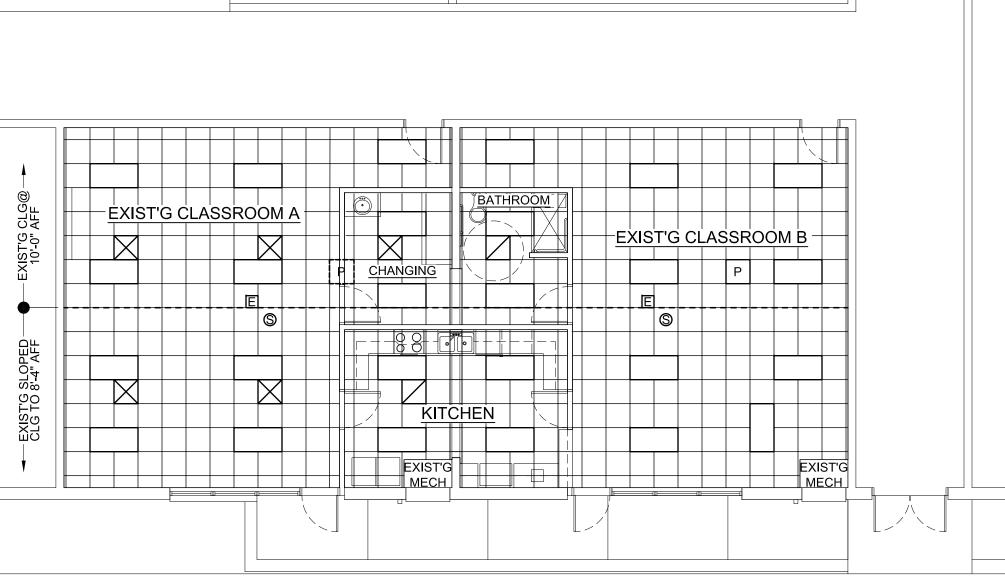
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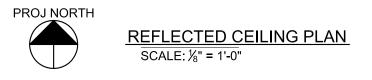
- 1. THE EXIST'G FLOOR IN THE CLASSROOM IS VCT ON CONCRETE SLAB ON GRADE. REMOVE EXIST'G VCT & MASTIC TO OUTSIDE FACE OF STUD WALLS. PATCH EXIST'G CRACKS AND PREPARE CONCRETE FOR TERAZZO. REMOVE EXIST'G SLAB AT ROLL IN SHOWER. SEE FLOOR PLAN & FINISH NOTES FOR ROLL IN SHOWER.
- 2. WALLS SHALL BE 6" METAL STUDS W/ ½" GWB AND SHALL EXTEND THROUGH THE EXIST'G CLG TO THE ROOF STRUCTURE (EXCEPT AS NOTED). REWORK CEILING GRID TO TERMINATE AT STUD WALLS.
- 3. EXIST'G MECH. UNITS SHALL REMAIN
- 4. PROVIDE EXISTING FLOOR SLAB DEMOLITION & PATCHING FOR SEWER LINE INSTALLATION. COORDINATE WITH PLUMBING P102
- 5. CONCRETE SHALL BE:
 - INTERIOR- 3,500 PSI 28 COMPRESSIVE STRENGTH 4" THICK W/ 6MIL POLY V.B.
 - EXTERIOR- 4,000 PSI 28 COMPRESSIVE STRENGTH WITH FIBER MESH REINFORCEMENT- 4" THICK
- 6. KITCHEN APPLIANCES SHALL BE PROVIDED SHALL HAVE ACCESSIBLE COMPLIANT CONTROLS: OVEN/RANGE, SINK, DISHWASHER, WASHER, DRYER, REFRIGERATOR
- 7. WATERCLOSET GRAB BARS SHALL BE ACCESSIBLE COMPLIANT:
 - -36" REAR- 36" AFF 12" FROM WALL
 - ·42" SIDE- 36" AFF 12" FROM WALL
 - ·18" VERTICAL- 40" AFF 40" FROM WALL
- 7. SHOWER GRAB BARS SHALL BE ACCESSIBLE COMPLIANT:
 - HORIZONTAL- 36" AFF
 - ·18" VERTICAL 42" AFF
 - FOLDABLE SEAT: 18" AFF 40"

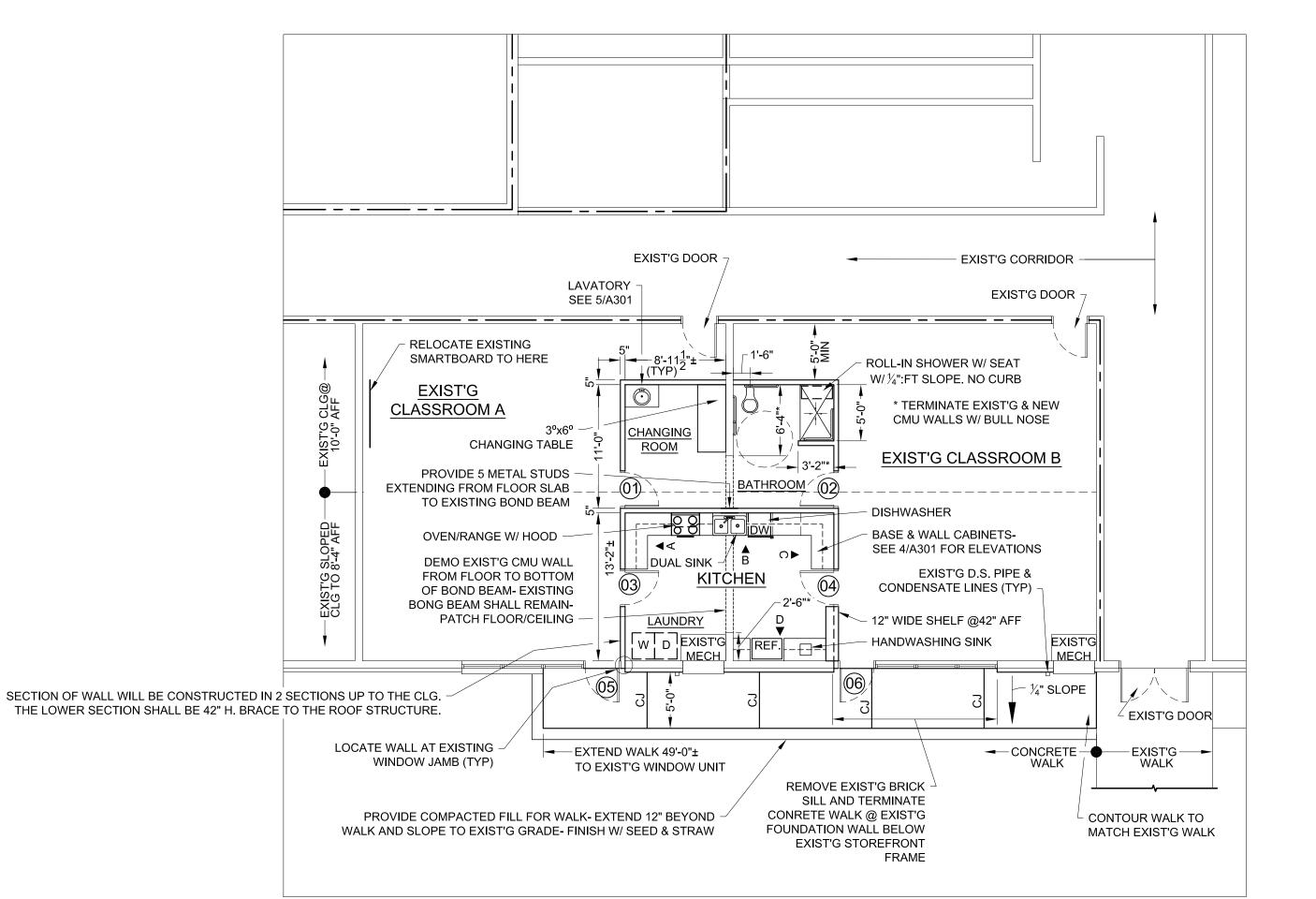
FINISH NOTES

- 1. STUD WALLS- PAINT FINISH W/ VINYL BASE
- 2. EXIST'G CEILING SHALL REMAIN
- 3. EXIST'G CLASSROOM CMU WALLS- REPAINT
- 4. CHANGING ROOM/BATHROOM- CERAMIC TILE WAINSCOT 4'-0" HIGH
- 5. ROLL IN SHOWER- CERAMIC TILE FLOOR/WALLS UP TO 8'-0" GROUT SHALL BE 100% SOLIDS EPOXY GROUT
- 6. FLOORING:
- EXIST'G CLASSROOMS- VCT SHALL REMAIN CHANGING ROOM/BATHROOM/KITCHEN- MONOLITHIC TERRAZZO OVER EXIST'G SLAB

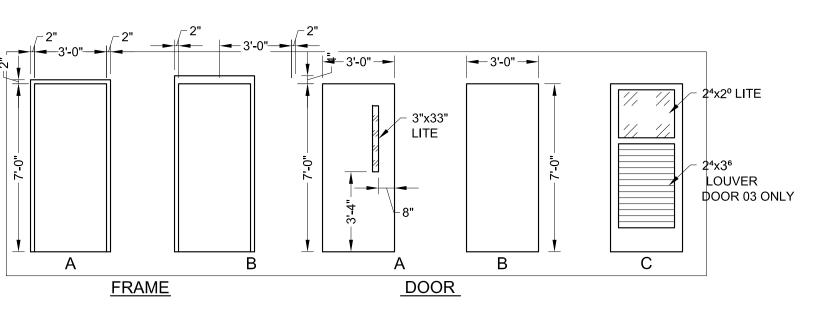












DOOR/FRAME ELEVATIONS

DOOR SCHEDULE

DOORS	MATERIAL	SIZE	FRAME	HARDWARE	ELEVATION
01	WOOD	3°x7°	H.M.	SET A	A/A
02	WOOD	3°x7°	H.M.	SET A	A/A
03	WOOD	3°x7°	H.M.	SET A	A/C
04	WOOD	3°x36	H.M.	SET B	
05	H.M.	3°x7°	ALUM.	SET C	B/B
06	H.M.	3°x7°	ALUM.	SET C	B/B

NOTE: PROVIDE TRANSITION ACCESSIBLE THRESHOLDS

LEGEND

4" METAL STUD WALL W/ 1/2" GWB-EXTEND & SECURE TO EXIST'G ROOF STRUCTURE

EXIST'G 8" CMU WALLS

EXIST'G CMU/BRICK VENEER WALLS

—— – 1 HR RATED WALL

— — — 2 HR RATED WALL

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LEGEND

P EXIST'G PROJECTOR

S EXIST'G SPEAKER

REF. REFRIGERATOR

W WASHER

D DRYER

DW DISHWASHER

MB EXIST'G 6x4 MARKER BOARD

EXIST'G LIGHT FIXTURE

SUPPLY AIR GRILLE

EXHAUST FAN

E EXIST'G WIFI





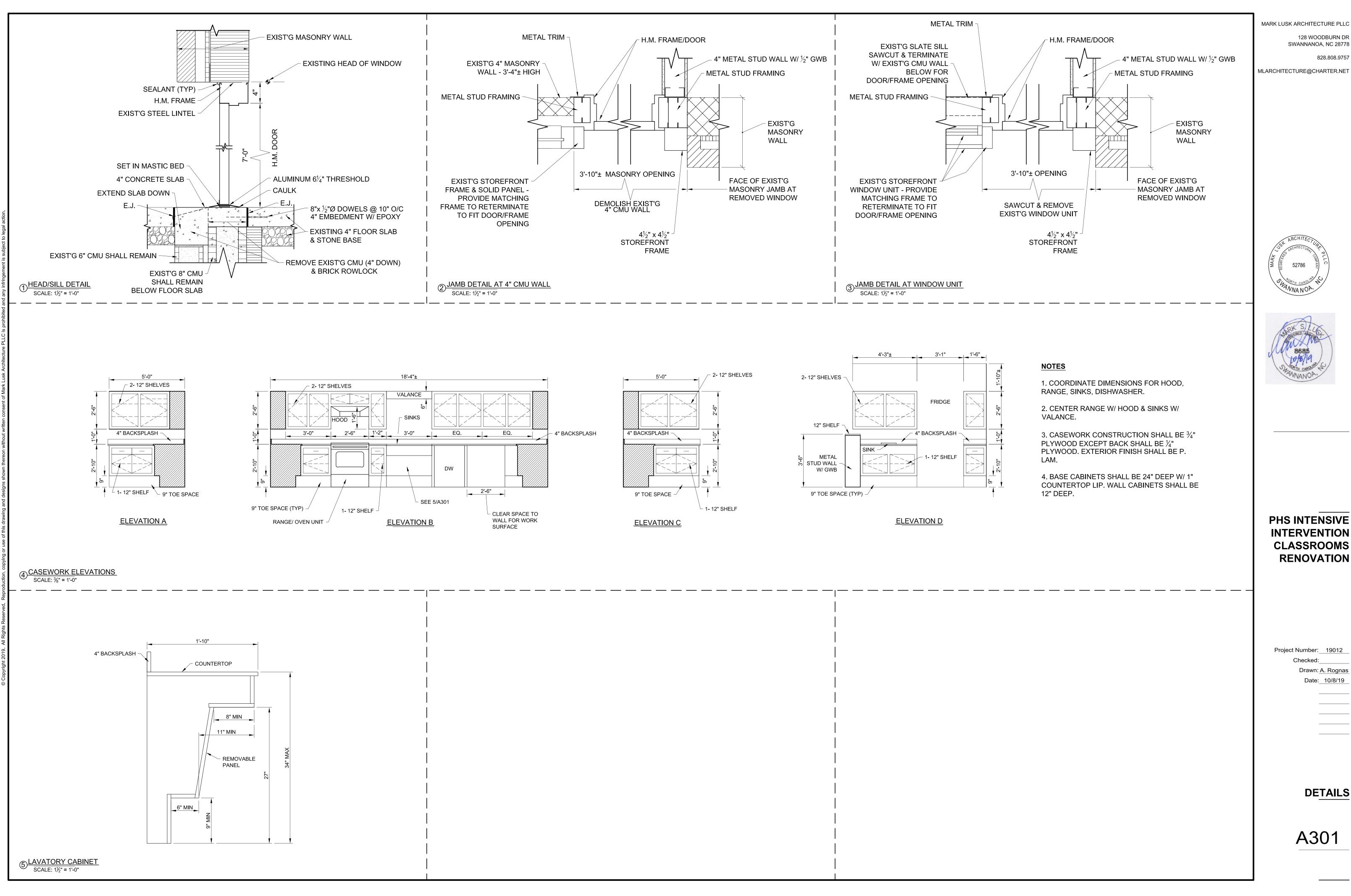
PHS INTENSIVE INTERVENTION **CLASSROOMS RENOVATION**

Project Number: 19012 Checked:

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Drawn: A. Rognas

FLOOR PLAN



128 WOODBURN DR SWANNANOA, NC 28778

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PHS INTENSIVE INTERVENTION CLASSROOMS **RENOVATION**

Checked:_ Drawn: A. Rognas

DETAILS

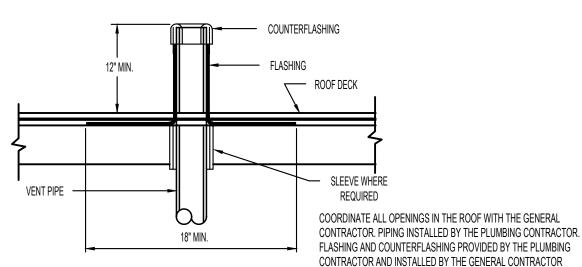
A301

	PLUMBING	FIXTURE SCHEDULE & S	SPE	CIFI	CAT	IOI	IS		
ITEM	FIXTURE	ACCESSORIES	WASTE	VENT	TRAP	HW	CW	SERVICE VALVE	MOUNTING HGT.
P1	WATER CLOSET: FLUSH VALVE TYPE KOHLER MODEL # K-96053-SS-0 "WELLCOMME ULTRA" VITREOUS CHINA COORDINATE COLOR W/ARCHITECT	- SLOAN ROYAL 111-1.28 RW FLUSH VALVE 1.28 GPF - BEMIS # 2155SSCT TOILET SEAT	4"	2"	INT.		1"	INT.	FL. MTD 15 1/4" A.F.F. TO RIM SEE NOTE 1
P2	ADA LAVATORY: COUNTER TOP (0.5 GPM) KOHLER MODEL # K-2839-4 "TIDES" CAST IRON COORDINATE COLOR W/ ARCHITECT	- CHICAGO FAUCET MODEL # 420-ABCP FAUCET SET - McGUIRE BALL VALVE STOPS AND SUPPLIES - 17 GA. CHROME PLATED P-TRAP	2"	2"	1 1/4"	1/2"	1/2"	3/8"	COUNTER TOP- SEE ARCH. ELEVATIONS
P3	SINK: COUNTER TOP (1.0 GPM) JUST MODEL # LRAD2219553 ONE COMPARTMENT, STAINLESS STEEL	- CHICAGO FAUCET MODEL # 786-E3 FAUCET SET - JUST MODEL # J-35-316 DRAIN - McGUIRE BALL VALVE STOPS AND SUPPLIES - 17 GA. CHROME PLATED P-TRAP	2"	2"	1 1/2"	1/2"	1/2"	3/8"	COUNTER TOP MOUNTED. 5 1/2" DEEP - DRAIN AT CENTER REAR
P3A	SINK: COUNTER TOP (1.0 GPM) JUST MODEL #DLXD-2133-A-GR TWO COMPARTMENT, STAINLESS STEEL	- CHICAGO FAUCET MODEL # 786-E3 FAUCET SET - JUST MODEL # J-35-316 DRAIN - McGUIRE BALL VALVE STOPS AND SUPPLIES - 17 GA. CHROME PLATED P-TRAP	2"	2"	1 1/2"	1/2"	1/2"	3/8"	COUNTER TOP MOUNTED. 12" DEEP - DRAIN AT CENTER REAR
P4	FLOOR DRAIN SIOUX CHIEF MODEL # 833-63DNQVHM "FINISHLINE" - DUCTILE / CAST IRON	DUCTILE IRON HEAD ADAPTOR, CORING SLEEVE, AND CLAMPING COLLAR. CAST IRON BASE ADAPTOR. HIGH-IMPACT POLYMER CORING PLUG. FLASHING COLLAR, BOTTOM OUTLET, ADJUSTABLE SQUARE TOP NICKEL BRONZE STRAINER, LEVELING SHIM KIT, FLEXIBLE LOCATING BRISTLES, AND STAINLESS MESH DEBRIS BASKET.	3"	2"	3"				MTD FLUSH WITH FLOOR
P5	CLEANOUT SIOUX CHIEF MODEL # 834-64DIRVB "FINISHLINE" - DUCTILE / CAST IRON	DUCTILE IRON HEAD ADAPTOR, CORING SLEEVE, AND CLAMPING COLLAR. HIGH-IMPACT POLYMER CORING PLUG. ADJUSTABLE ROUND DUCTILE IRON TOP. BRASS CLEANOUT PLUG AND LEVELING SHIM KIT	4"						MOUNT FLUSH WITH SURRONDING SURFACE
P6	WATER SUPPLY BOX: RECESSED MOUNTED GUY GRAY MODEL # SSMIB6AB	- FURNISH COMPLETE WITH HAMMER ARRESTOR.				1/2"			WALL RECESSED
P6A	WASHER SUPPLY BOX: RECESSED MOUNTED GUY GRAY MODEL # SSWB3	- FURNISH COMPLETE WITH HAMMER ARRESTOR.	2"			1/2"	1/2"		WALL RECESSED
P7	ADA SHOWER: BUILT IN PLACE	SYMMONS TEMPTROL #96-500-B30-L-V PRESSURE-BALANCING MIXING VALVE SEE ARCHITECTURAL DETAILS FOR LOCATIONS OF SHOWER HEAD, AND CONTROLS	3"	1 1/2"	1 1/4"	1/2"	1/2"	INT	WALL RECESSED
P8	HOSE BIBB - INTERIOR WOODFORD # 24-CH-LOOSE KEY	- FURNISH COMPLETE					1/2"		WALL MOUNTED 18" A.F.F.
NOTE 1. FI		WIDE SIDE OF TOILET STALL PER N. C. ACCESSIBILITY	Y CODE	Ξ.					

- EQUAL FIXTURES BY AMERICAN STANDARD, SLOAN, OR APPROVED EQUAL. . EQUAL FITTINGS BY DELTA, SYMMONS, OR APPROVED EQUAL.
- EQUAL DRAIN AND CLEANOUTS BY J.R. SMITH, WATTS, OR APPROVED EQUAL.
- . INSTALL CHECK VALVES ON ALL COLD WATER AND HOT WATER SUPPLIES TO JANITOR'S SINKS.
- 6. ALL HANDICAP SINKS TO BE PROVIDED WITH OFFSET TAILPIECE.
- . ALL HANDICAP SINK/LAVATORIES TO HAVE McGUIRE # PW2125WCPRO SEAMLESS PREWRAPPED P-TRAP AND SUPPLY INSULATION KIT 8. COORDINATE ALL INSTALLATION OF SINKS WITH CASEWORK SHOP DRAWINGS PRIOR TO ORDERING.

GENERAL NOTES:

- 1. THIS CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND PLACEMENTS OF PLUMBING FIXTURES AND EQUIPMENT WITH SITE AND ARCHITECTURAL DRAWINGS, INCLUDING REFLECTED CEILING PLANS, INTERIOR AND EXTERIOR ELEVATIONS, DETAILS, AND SECTIONS, PRIOR TO ROUGH-IN; OR RELOCATE AS DIRECTED BY THE DESIGNER AT NO ADDITIONAL COST TO THE OWNER.
- 2. ALL PIPING, SLEEVES, INSERTS, AND OTHER ROUGH-IN MATERIALS SHALL BE INSTALLED AS BUILDING CONSTRUCTION PROGRESSES.
- 3. PIPE HANGERS SHALL BE SIZED SO THAT INSULATION IS CONTINUOUS AT ALL HANGERS.
- 4. THIS CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS AND TRADES TO LOCATE HIS WORK TO AVOID CONFLICTS.
- 5. ALL VENTS THROUGH THE ROOF SHALL BE COMBINED AS PRACTICAL AND ALLOWED BY CODE, AND PENETRATE THE ROOF ON THE BACK SIDE OF THE BUILDING WHERE PRACTICAL, THIS CONTRACTOR SHALL COORDINATE DETAILS OF VENT PENETRATIONS AND FLASHING WITH THE ROOFING INSTALLER.
- 6. CLEAN OUTS SHALL BE INSTALLED WHERE SHOWN AND WHERE REQUIRED BY CODE.
- 7. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL OFFSETS, FITTINGS, VALVES, AND ACCESSORIES THAT MAY BE REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, OR RECOMMENDED BY THE EQUIPMENT MANUFACTURER, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN OR SPECIFIED.
- 8. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 9. INSTALL ALL PIPING INSIDE OF THERMAL ENVELOPE. SEE ARCHITECTURAL DRAWINGS.
- 10. ALL DOMESTIC WATER COMPONENTS TO BE LEAD FREE.
- 11. INSTALL BALL VALVES ON ALL FIXTURE HOT WATER AND COLD WATER SUPPLIES.



VENT THRU ROOF

PLUMBING SPECIFICATIONS

IT IS THE INTENT OF THESE SPECIFICATIONS TO FURNISH A COMPLETE PLUMBING SYSTEM, FULLY ADJUSTED, AND READY FOR USE.

ALL WORK SHALL BE DONE IN COMPLIANCE WITH NORTH CAROLINA BUILDING CODE AND ALL LOCAL CODES.

THIS CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS AND PAY ALL SALES TAXES, TAP AND METER FEES, AND OTHER COSTS, IN

ALL MATERIAL AND EQUIPMENT HAS BEEN CAREFULLY SELECTED FOR THIS PROJECT AND THE CONTRACTOR IS EXPECTED TO PROVIDE ALL ITEMS AS CLOSELY AS POSSIBLE TO THE SPECIFICATIONS AND AS CALLED FOR ON THE DRAWINGS.

ALL INCIDENTAL CONSTRUCTION WORK TO BE INCLUDED BY THIS CONTRACTOR.

SUBMIT ELECTRONIC FILE OF EQUIPMENT DATA SHOP DRAWINGS TO ENGINEER FOR ALL ITEMS TO BE FURNISHED AND INSTALLED FOR APPROVAL.

THIS CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS IN ORDER TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS, WHETHER OR NOT SHOWN ON DRAWINGS AND/OR SPECIFIED. NO CLAIM FOR EXTRA WILL BE APPROVED WITHOUT PRIOR COORDINATION FOR CONFLICTS BY CONTRACTOR, AND WRITTEN REQUEST AND APPROVAL PRIOR TO PERFORMING

ALL WORK AND EQUIPMENT TO BE GUARANTEED BY CONTRACTOR FOR ONE (1) YEAR.

UPON COMPLETION OF ALL WORK AND ALL TESTS, INSTRUCT THE OWNER OR HIS REPRESENTATIVE FULLY IN THE OPERATIONS, ADJUSTMENTS, AND MAINTENANCE OF ALL EQUIPMENT FURNISHED. PROVIDE OWNER MAINTENANCE SCHEDULE FOR THE PRINCIPAL ITEMS OF EQUIPMENT FURNISHED. MANUFACTURER'S ADVERTISING LITERATURE OR CATALOGS WILL NOT BE ACCEPTABLE.

ALL MATERIALS AND EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND GOOD RECOMMENDED PRACTICES.

ALL WORK AND MATERIALS SHALL MEET APPROVAL OF ARCHITECT/ENGINEER.

THIS CONTRACTOR SHALL GIVE FULL COOPERATION TO OTHER TRADES. WHERE THE WORK OF THIS CONTRACTOR WILL BE INSTALLED IN CLOSE PROXIMITY TO, OR WILL INTERFERE WITH WORK OF OTHER TRADES, HE SHALL ASSIST IN WORKING OUT SPACE CONDITIONS TO MAKE SATISFACTORY ADJUSTMENTS, IF THIS CONTRACTOR INSTALLS HIS WORK BEFORE COORDINATING WITH OTHER TRADES, HE SHALL MAKE THE NECESSARY CHANGES IN HIS WORK TO CORRECT THE CONDITION WITHOUT EXTRA CHARGE.

DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. DRAWINGS ARE NOT TO BE

SOIL, WASTE AND VENT PIPING UNDERGROUND INSIDE BUILDING TO SOLID CORE SCHEDULE 40 PVC WITH PVC FITTINGS.

DOMESTIC WATER PIPE TO BE TYPE "L" HARD DRAWN COPPER.

ALL HOT AND COLD WATER PIPING ABOVE GRADE WITHIN BUILDING SHALL BE INSULATED. HOT WATER PIPE INSULATION SHALL BE 1" THICK, AND COLD WATER

INSULATION SHALL BE 1/2" THICK SECTIONAL TYPE, FIBROUS GLASS OR CELLULAR TYPE INSULATION (ARMAFLEX).

ALL LINES TO BE INSULATED CONTINUOUSLY AND SUFFICIENTLY TO PREVENT FREEZING IN EXTREME CONDITIONS. WHERE PIPES ARE INSTALLED IN CEILING PLENUM ABOVE BATT INSULATION, THE BATT INSULATION SHALL BE LOOPED UP OVER THE WATER PIPES. IF IN WALL CHASE, CHASE TO BE LINED WITH STYROFOAM OR FIBERGLASS INSULATION. IF IN CONCRETE BLOCK CELLS, PIPE TO BE INSULATED WITH 3/4" ARMAFLEX AND BLOCKS FILLED WITH GRANULAR STYROFOAM PELLETS.

CONTROL VALVES FOR HOT AND COLD WATER LINES SHALL BE BALL VALVES, SWEAT TYPE.

PROVIDE ALL PLUMBING PIPING AND EQUIPMENT IN CONNECTION WITH THE SYSTEM.

PROVIDE ALL HANGERS AND SUPPORTS TO SUPPORT PIPING AND EQUIPMENT. HANGERS AND SUPPORTS IN CONTACT WITH COPPER PIPE SHALL BE COPPER PLATES OR BRASS.

CONTROL VALVES TO BE ON WATER CONNECTIONS TO ALL FIXTURES AND EQUIPMENT.

INSULATE HOT WATER SUPPLY PIPE AND DRAIN PIPE ON LAVATORY FOR HANDICAPPED.

CEILING FIBERGLASS INSULATION SHALL BE LAPPED OVER HOT AND COLD WATER PIPING IN CEILING SPACE IN ADDITION TO PIPE INSULATION SPECIFIED TO PREVENT FREEZING WHERE APPLICABLE.

THIS CONTRACTOR TO PERFORM ALL ADJUSTMENTS AND DISINFECTION OF SYSTEMS, EQUIPMENT, CONTROLS, ETC., NECESSARY FOR THE SYSTEM TO PROVIDE THE REQUIRED PERFORMANCE AND TO OPERATE SAFELY. SUBMIT "AS-BUILT" DRAWINGS TO ENGINEER SHOWING ACTUAL INVERTS AND LOCATIONS OF UNDERGROUND LINES, AND ALL CHANGES.

CONDENSATE DRAINS FROM AIR CONDITIONING UNITS SHALL BE PROVIDED FOR ALL AIR CONDITIONING UNITS, SIZED AND INSTALLED IN ACCORDANCE WITH THE UNIT MANUFACTURER'S RECOMMENDATIONS. CONDENSATE DRAINS SHALL BE PIPED (OR PUMPED) TO THE OUTSIDE OF BUILDING, NATURAL DRAIN, DRY WELL, LAVATORY, SERVICE SINK, ROOF DRAIN, OR STORM SEWER, CONNECTED DIRECTLY TO THE DRAINAGE PIPING BETWEEN A LAVATORY, SERVICE SINK OR LAB SINK AND ITS TRAP, OR CONNECTED INDIRECTLY (AIR GAP) TO A PROPERLY TRAPPED AND VENTED CONNECTION TO THE SANITARY DRAINAGE OR VENT SYSTEMS, IN COMPLIANCE WITH LOCAL PLUMBING CODE REQUIREMENTS.

ALL PIPING SHALL BE THOROUGHLY FLUSHED OUT BEFORE USE.

THE WATER SYSTEM, AFTER IT HAS BEEN COMPLETED, TESTED AND THOROUGHLY FLUSHED TO REMOVE MUD AND DEBRIS, SHALL BE DISINFECTED BY

INJECT CHLORINE IN SOLUTION INTO NEW SYSTEM BY MEANS OF A PUMP AS SYSTEM IS FILLED. CHLORINATED WATER SHALL COMPLETELY DISPLACE ALL AIR AND WATER PRESENT IN NEW SYSTEM. OPEN SPIGOTS AT END OF DISTRIBUTION IN BUILDINGS UNTIL ALL LINES ARE FILLED WITH CHLORINATED WATER AND AIR IS REMOVED. CHLORINATED WATER SHALL HAVE A MINIMUM CHLORINE CONCENTRATION OF 50 PPM, AND SHALL REMAIN IN THE SYSTEM FOR A MINIMUM OF 24 HOURS. AT THE END OF THIS PERIOD, THE SYSTEM SHALL BE FLUSHED UNTIL ONLY A NORMAL RESIDUAL OF CHLORINE IS PRESENT AS DETERMINED BY THE ORTHO TOLIDINE TESTS.

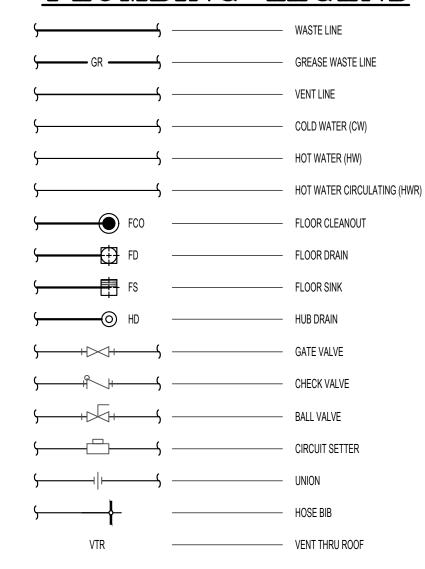
PROVIDE SLEEVES FOR WASTE PIPES PASSING THROUGH FOUNDATION WALLS.

PROVIDE CLEAN OUTS LOCATED NOT MORE THAN 100' APART IN HORIZONTAL DRAINAGE LINES OR 4" NOMINAL DIAMETER OR LESS. CLEAN OUTS MUST BE INSTALLED FOR EVERY FOUR HORIZONTAL 45° CHANGES LOCATED IN SERIES AND AT THE BASE OF EACH STACK.

PROVIDE FLOOR DRAINS AS REQUIRED BY THE PLUMBING CODE. FLOOR DRAINS TO BE NOT LESS THAN 3", AND WITH A REMOVABLE STRAINER. TRAP SEAL BE AT LEAST 3" IN DEPTH.

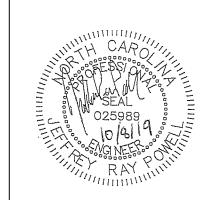
SUSPENDED WATER LINES TO BE BRACED TO PREVENT SWAYING DURING THE OPERATION OF VALVES/EQUIPMENT.

PLUMBING LEGEND



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MARK LUSK ARCHITECTURE PLLC



PISGAH HIGH SCHOOL II

Project Number: 19012 Checked: SCK

PLUMBING

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CARO SEAL O25989 O25989 RAY

> PISGAH HIGH SCHOOL II

Project Number: 19012

Checked: SCK

Drawn: JRP

PLUMBING FLOOR PLAN

P102

GENERAL MECHANICAL NOTES

- 1. THE DRAWINGS SHOW THE LOCATION AND ARRANGEMENT OF PIPING, DUCTS, AND EQUIPMENT TOGETHER WITH DETAILS OF CONNECTIONS OF CERTAIN PRINCIPAL ITEMS. THE LAYOUT SHOWN SHALL BE FOLLOWED AS CLOSELY AS CIRCUMSTANCES WILL PERMIT, BUT THIS CONTRACTOR SHALL COORDINATE WITH EXISTING CONDITIONS AND SHALL COOPERATE FULLY WITH OTHER CONTRACTORS AND TRADES WHILE INSTALLING DUCTS, PIPING, AND OTHER EQUIPMENT BECAUSE OF CLOSE SPACE LIMITS. IN CASE OF CONFLICT, NOTIFY DESIGNER BEFORE PROCEEDING WITH INSTALLATION. DO NOT SCALE MECHANICAL DRAWINGS FOR DIMENSIONS - FIELD VERIFY.
- 2. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL OFFSETS, FITTINGS, AND ACCESSORIES THAT MAY BE REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, OR RECOMMENDED BY THE EQUIPMENT MANUFACTURER, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN OR SPECIFIED.
- DUCTWORK SIZES INDICATED ON DRAWINGS ARE FREE INSIDE DIMENSIONS.
- 4. MAXIMUM LENGTH OF FLEXIBLE DUCT IS SIX FEET (6').
- 5. ALL VALVES, DAMPERS, CONTROLS, AND OTHER ITEMS REQUIRED FOR OPERATION OR MAINTENANCE
- 6. PROVIDE AND INSTALL VOLUME CONTROL DAMPERS AT ALL SUPPLY MAIN AND BRANCH DUCTS.
- 7. PROVIDE AND INSTALL DUCT ACCESS DOORS AT ALL FIRE DAMPERS AND DUCT SMOKE DETECTORS. REFER TO DRAWINGS FOR DUCT SMOKE DETECTOR LOCATIONS.
- 8. THIS CONTRACTOR SHALL TAKE FIELD MEASUREMENTS BEFORE FABRICATING ANY DUCTS TO ENSURE THAT DUCT SIZES SHOWN WILL FIT INTO AVAILABLE SPACE. IN CASE OF CONFLICT, NOTIFY THE DESIGNER
- 9. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION.
- 10. COORDINATE EXACT LOCATION FOR ALL GRILLES/DIFFUSERS WITH EXISTING CONDITIONS (STRUCTURE, FURNITURE, ETC.) AND WITH OWNER.
- 11. COORDINATE EXACT SIZES REQUIRED FOR ALL OPENINGS FOR DUCTWORK AND PIPING WITH SPACE REQUIREMENTS, STRUCTURE, ETC., PRIOR TO FRAMING FOR THE PENENTRATIONS.
- 12. COORDINATE EXACT LOCATION OF ALL GRILLES, DUCT ROUTING, ETC. WITH EXISTING LIGHT FIXTURES.
- 13. INSTALL AND SEAL ALL NEW PIPE PENETRATIONS OF FIRE RATED WALLS/FLOORS PER U.L. CLASSIFICATIONS. UTILIZE ACCEPTABLE PIPING MATERIALS AT WALL PENETRATION PER APPLICABLE U.L. DETAILS (AS REQUIRED), INSTALL SLEEVES AS REQUIRED, ETC. REFER TO U.L. #CAJ-1001, #CAJ-2002, #CAJ-5001, AND #CBJ-5002.
- 14. CONTRACTOR TO PROVIDE ALL WALL OPENINGS, LINTELS, MISCELLANEOUS SUPPORTS/METAL AS REQUIRED.

MECHANICAL SPECIFICATIONS

IT IS THE INTENT OF THESE SPECIFICATIONS TO FURNISH A COMPLETE HEATING, VENTILATING, AND AIR CONDITIONING SYSTEM, FULLY ADJUSTED, AND READY FOR USE.

ALL MECHANICAL WORK TO BE DONE IN COMPLIANCE WITH NORTH CAROLINA BUILDING CODE AND ALL LOCAL CODES.

THIS CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS AND PAY ALL SALES TAXES, AND OTHER COSTS, IN CONNECTION WITH HIS WORK.

ALL MATERIAL AND EQUIPMENT THAT CAN BE U.L. LISTED SHALL BE FURNISHED FOR THIS PROJECT.

MATERIAL AND EQUIPMENT HAS BEEN CAREFULLY SELECTED FOR THIS PROJECT AND THE CONTRACTOR IS EXPECTED TO PROVIDE ALL ITEMS AS CLOSELY AS POSSIBLE TO THE SPECIFICATIONS AND AS CALLED FOR ON THE DRAWINGS.

SUBMIT THREE (3) SETS OF EQUIPMENT DATA SHOP DRAWINGS TO ENGINEER FOR ALL ITEMS TO BE FURNISHED AND INSTALLED FOR APPROVAL.

THIS CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS, IN ORDER TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS, WHETHER OR NOT SHOWN ON DRAWINGS AND/OR SPECIFIED. NO CLAIM FOR EXTRAS WILL BE APPROVED WITHOUT PRIOR COORDINATION FOR CONFLICTS BY CONTRACTOR, AND WRITTEN REQUEST AND WRITTEN APPROVAL PRIOR TO PERFORMING

ALL WORK AND EQUIPMENT TO BE GUARANTEED BY CONTRACTOR FOR ONE (1) YEAR. AN ADDITIONAL FOUR (4) YEAR WARRANTY SHALL BE PROVIDED ON ALL COMPRESSORS.

ALL MATERIALS AND EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND GOOD RECOMMENDED PRACTICES.

ALL WORK AND MATERIALS SHALL MEET APPROVAL OF ARCHITECT/ENGINEER.

THIS CONTRACTOR SHALL GIVE FULL COOPERATION TO OTHER TRADES. WHERE THE WORK OF THIS CONTRACTOR WILL BE INSTALLED IN CLOSE PROXIMITY TO, OR WILL INTERFERE WITH WORK OF OTHER TRADES, HE SHALL ASSIST IN WORKING OUT SPACE CONDITIONS TO MAKE SATISFACTORY ADJUSTMENTS. IF THIS CONTRACTOR INSTALLS HIS WORK BEFORE COORDINATING WITH OTHER TRADES, HE SHALL MAKE THE NECESSARY CHANGES IN HIS WORK TO CORRECT THE CONDITION WITHOUT EXTRA CHARGE.

DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. DRAWINGS ARE NOT TO BE SCALED.

ALL DUCTWORK TO BE FABRICATED FROM GALVANIZED SHEET METAL AND INSTALLED ACCORDING TO REQUIREMENTS OF NFPA 90A, SMACNA, AND ASHRAE GUIDE AND DATA BOOKS.

ALL FLEXIBLE DUCTWORK, FOR CONNECTIONS BETWEEN DIFFUSERS AND BRANCH DUCTS WHERE INDICATED, TO BE THERMAFLEX TYPE "MKE".

ALL DUCT SEAMS TO BE TAPED WITH FASSON #AFTS-100/3 SMACNA TAPE, OR EQUAL.

VOLUME CONTROL DAMPERS (BALANCING) SHALL BE INSTALLED IN EACH BRANCH OR ZONE DUCT.

DAMPERS WHICH ARE PART OF A MANUFACTURED AIR GRILL DO NOT MEET THIS REQUIREMENT.

ALL SQUARE ELBOWS SHALL HAVE TURNING VANES INSTALLED. TURNING VANES SHALL BE APPLIED EQUALLY TO THE RETURN

DUCTWORK SIZES INDICATED ON DRAWINGS ARE AS REQUIRED FOR FREE INSIDE AREAS.

ALL DUCTWORK TO BE INSULATED WITH 2" BLANKET TYPE INSULATION 1 LB. DENSITY (MIN. R=6.5) WITH VAPOR BARRIER JACKET OF .002 INCH THICK ALUMINUM FOIL LAMINATED.

ALL DUCTWORK TO BE SUSPENDED WITH APPROPRIATE HANGERS, INSTALLED AND SPACED PER NC MECHANICAL CODE.

ALL SUPPLY GRILLES AND DIFFUSERS TO BE EQUIPPED WITH VOLUME CONTROLS.

AIR HANDLING EQUIPMENT SHALL BE ISOLATED FROM DIRECT CONTACT WITH SUPPLY OR RETURN AIR DUCTWORK. FLEXIBLE CONNECTIONS SHALL BE INSTALLED BETWEEN THE EQUIPMENT AND DUCT. FLEXIBLE CONNECTIONS SHALL BE MADE OF APPROVED FLAMEPROOFED FABRIC OR OTHER APPROVED NON-COMBUSTIBLE MATERIAL.

OUTDOOR EQUIPMENT LOCATED IN ALLEYS, DRIVEWAYS, PARKING AREAS, ETC., SHALL BE PROTECTED FROM DAMAGE. GRADE LEVEL EQUIPMENT SHALL BE INSTALLED ON A PRE-FORMED BASE, A STRUCTURAL FRAME, OR A CONCRETE BASE, PROPERLY INSTALLED TO INSURE ITS LEVEL BEING MAINTAINED REGARDLESS OF WEATHER CONDITIONS.

EACH HEATING AND/OR COOLING SYSTEM SHALL HAVE A DEVICE, OR DEVICES, FOR CLEANING OR FILTERING BOTH RETURN AND OUTDOOR AIR.

LOW VOLTAGE WIRING (50 VOLTS OR LESS) WITHIN A STRUCTURE SHALL BE INSTALLED IN A MANNER TO PREVENT PHYSICAL DAMAGE. SUCH WIRING EXPOSED TO WEATHER SHALL BE INSTALLED BY A METHOD APPROVED FOR EXTERIOR USE.

THIS CONTRACTOR TO PERFORM ALL ADJUSTMENTS AND BALANCING OF SYSTEMS, EQUIPMENT, CONTROLS, ETC., NECESSARY FOR THE SYSTEM TO PROVIDE THE REQUIRED PERFORMANCE AND TO OPERATE SAFELY. SUBMIT "AS-BUILT" DRAWINGS TO ENGINEER SHOWING ACTUAL AIR FLOWS AT EACH GRILL INSTALLED UNDER THIS CONTRACT.

UPON COMPLETION OF ALL WORK AND ALL TESTS, INSTRUCT THE OWNER OR HIS REPRESENTATIVE FULLY IN THE OPERATIONS, ADJUSTMENTS, AND MAINTENANCE OF ALL EQUIPMENT FURNISHED.

PROVIDE OWNER MAINTENANCE INSTRUCTIONS AND SCHEDULE FOR THE PRINCIPAL ITEMS OF EQUIPMENT FURNISHED. MANUFACTURER'S ADVERTISING LITERATURE OR CATALOGS WILL NOT BE ACCEPTABLE.

			GRILLE &	& DIFFU	SER SCH	HEDULE
SYMBOL	TYPE	LOCATION	MANUFACTURER MODEL	SIZE	CFM	REMARKS
A	SUPPLY	CEILING LAY-IN	PRICE SCD	6"Ø 24x24	100	OFF-WHITE FINISH, SQUARE TO ROUND TRANSITION AS REQUIRED
В	SUPPLY	CEILING LAY-IN	PRICE SCD	8"Ø 24x24	244	OFF-WHITE FINISH, SQUARE TO ROUND TRANSITION AS REQUIRED
С	SUPPLY	CEILING LAY-IN	PRICE SCD	12"Ø 24x24	550	OFF-WHITE FINISH, SQUARE TO ROUND TRANSITION AS REQUIRED
D	SUPPLY	CEILING LAY-IN	PRICE ASCD	8"Ø 24x24	279	OFF-WHITE FINISH
E	RETURN/ EXHAUST	CEILING LAY-IN	PRICE APDDR	6x6 24x24	100	OFF-WHITE FINISH, SQUARE TO ROUND TRANSITION AS REQUIRED
F	RETURN/ EXHAUST	CEILING LAY-IN	PRICE APDDR	10x10 24x24	375	OFF-WHITE FINISH, SQUARE TO ROUND TRANSITION AS REQUIRED
G	RETURN/ EXHAUST	CEILING LAY-IN	PRICE APDDR	12x12 24x24	600	OFF-WHITE FINISH, SQUARE TO ROUND TRANSITION AS REQUIRED
Н	RETURN/ EXHAUST	CEILING LAY-IN	PRICE APDDR	15x15 24x24	1100	OFF-WHITE FINISH, SQUARE TO ROUND TRANSITION AS REQUIRED

ALL GRILLE DESIGNATIONS MAY NOT BE UTILIZED ON THIS PROJECT.

ALL GRILLES / DIFFUSERS SERVING TOILETS AND JAN. CLOSETS TO HAVE ALUMINUM CONSTRUCTION. APPROVED EQUALS BY METAL-AIRE, CARNES, TITUS, AND KRUEGER.

4. ALL GRILLES WITH RADIATION DAMPERS TO HAVE STEEL CONSTRUCTION.

FAN # TYPE LOCATION CFM S.P. RPM/T.S. WATTS VOLT-PH. MFG. & MODEL SONES ROOF OPG. REMARKS EF-1 EXHAUST CEILING 150 0.25" 1400 44 (W) 115-10 GREENHECK SP-A190 2.0 N/A 1,2,3,4,6 EF-2 EXHAUST CEILING 200 0.25" 900 49 115-10 GREENHECK SP.A200 3.0 N/A 1,2,3,5,6											
FAN#	AN # TYPE LOCATION CFM S.P. RPM/T.S.		RPM/T.S.	WATTS VOLT-PH. MFG. & MODE			SONES	ROOF OPG.	REMARKS		
EF-1	EXHAUST	CEILING	150	0.25"	1400		115-1Ø		2.0	N/A	1,2,3,4,6
EF-2	EXHAUST	CEILING	200	0.25"	900	49 (W)	115-1Ø	GREENHECK SP-A200	3.0	N/A	1,2,3,5,6

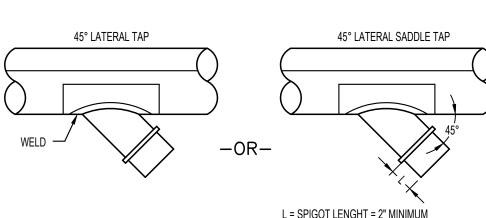
NOTE: APPROVED EQUALS BY ACME, CARNES, COOK, PENN

1. DISCONNECT SWITCH

2. BACKDRAFT DAMPER

3. VIBRATION ISOLATORS 4. TO RUN CONTINUOUSLY

6. ROUTE DUCT UP TO PRE-FABRICATED ROOF CAP WITH BIRD SCREEN



TAKE-OFF FROM ROUND DUCT

1. DETAIL APPLIES FOR ROUND TAKE-OFFS FROM ROUND SUPPLY OR RETURN DUCTWORK.

TAPS MAY HAVE SCREWS.

L = SPIGOT LENGHT = 2" MINIMUM

SPIN-IN TYPE FITTINGS SHALL NOT BE USED.

1. DETAIL APPLIES FOR RECTANGULAR AND ROUND TAKE-OFFS FROM RECTANGULAR SUPPLY OR RETURN DUCTWORK. TAPS MAY HAVE SCREWS.

CLOSE OPENING AT CORNERS WITH CORNER FILLER PIECE

45° CLINCH COLLAR OR

FOR ROUND DUCTS, TRANSTION TO REQUIRED

ROUND DUCT SIZE AS REQUIRED. NET FREE

INSIDE AREA OF RECTANGULAR FITTING (X*Y) TO EQUAL NET FREE INSIDE AREA OF ROUND

BUTT FLANGE COLLAR

OR GASKET

TAKE-OFF FROM RECTANGULAR DUCT GENERAL NOTES: INSTALL DUCT TAKE-OFFS PER SMACNA DETAILS FIG. 2-8 AND 3-8.

TYPICAL 45° TAKE-OFF DETAILS (SUPPLY AND RETURN)

NOT TO SCALE

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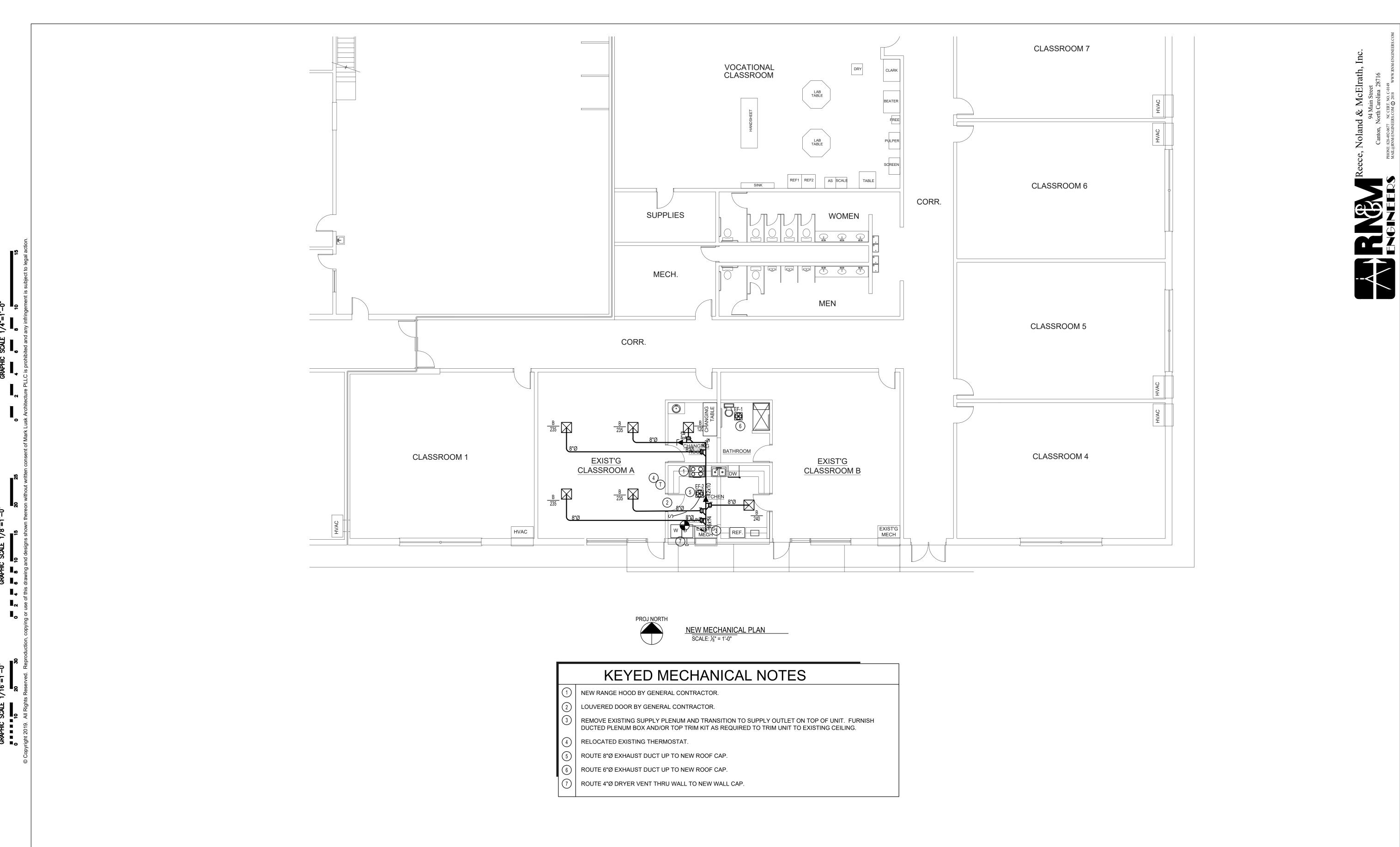
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PISGAH HIGH SCHOOL II

Project Number: 19012 Checked: MRM

MECHANICAL SPECIFICATIONS, **NOTES & SYMBOLS**



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PISGAH HIGH SCHOOL II

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MECHANICAL PLANS

M201

AIR CONDITIONING UNIT ACT ABOVE COUNTER TOP AUTOMATIC DOOR AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE

AFR ABOVE FINISHED ROOF AHJ AUTHORITY HAVING JURISDICTION AHU AIR HANDLING UNIT AIC AMPS INTERUPTING CAPACITY ATS AUTOMATIC TRANSFER SWITCH

AUDIO VISUAL BOILER BAS BUILDING AUTOMATION SYSTEM

CONDUIT

CR CRITICAL BRANCH

CU COPPER

DWG DRAWING

EF EXHAUST FAN

EM EMERGENCY

EXIST EXISTING FCU FAN COIL UNIT

CY CURRENT TRANSFORMER

CUH CABINET UNIT HEATER

EC ELECTRICAL CONTRACTOR

ELECTRICAL INTERLOCK

EOL END OF LINE RESISTOR

EP EXPLOSION PROOF

FLO FULL LOAD AMPS

FREEZESTAT GC GENERAL CONTRACTOR

FLOOR

GND GROUND

HP HORSE POWER

JB JUNCTION BOX

KVA KILOVOLT AMPS KW KILOWATT

KK KIRK KEY

IG ISOLATED GROUND

LRA LOCKED ROTOR AMPS

LS LIFE SAFETY BRANCH

MC MECHANICAL CONTRACTOR

MCC MOTOR CONTROL CENTER

MCCB MOLDED CASE CIRCUIT BREAKER

LIGHT

LTG LIGHTING MAX MAXIMUM

MIN MINIMUM

MTG MOUNTING MW MICROWAVE N NORMAL BRANCH NC NORMALLY CLOSED

MT MOUNT MTD MOUNTED

MLO MAIN LUG ONLY

NIC NOT IN CONTRACT NO NORMALLY OPEN

NTS NOT TO SCALE

O/L OVERLOAD RELAY

RF RETURN AIR FAN

RTU ROOF TOP UNIT

SF SUPPLY AIR FAN

SPEC SPECIFICATION

UG UNDERGROUND

UH UNIT HEATER

S/C SOUND SYSTEM CONSULTANT

UNO UNLESS NOTED OTHERWISE

VFD VARIABLE FREQUENCY DRIVE

TCC TEMPERATURE CONTROL CONTRACTOR

UNDERWRITERS' LABORATORIES, INC.

PC PLUMBING CONTRACTOR

PB PUSH BUTTON

P PUMP

PHS PHASE

PNL PANEL

PWR POWER

SW SWITCH

TYP TYPICAL

V VOLTS

W WATTS W/ WITH

VA VOLT AMPS

W/O WITH OUT WP WEATHERPROOF XFMR TRANSFORMER

EQ EQUIPMENT BRANCH

EWC ELECTRIC WATER COOLER

FDS FUSED DISCONNECT SWITCH

GFI GROUND FAULT INTERUPTER

GFP GROUND FAULT PROTECTION

HOA HANDS-OFF-AUTO SELECTOR SWITCH

HVAC HEATING, VENTILATION, AIR CONDITIONING

LRHF LINE REACTOR/HARMONIC TRAP FILTER

EDP EMERGENCY DISTRIBUTION PANEL

DP DISTRIBUTION PANEL

CH CHILLER

BC BYPASS CONTACTOR BLDG BUILDING BFG BELOW FINISHED GRADE

C/B (C/B) CIRCUIT BREAKER

LOCAL CODES.

INSTALLED FOR APPROVAL.

ACCEPTABLE.

SERVICE, PERMITS, FEES. & OTHER COSTS IN CONNECTION WITH HIS WORK.

CONTRACTOR, & WRITTEN REQUEST & APPROVAL PRIOR TO PERFORMING WORK.

ALL WORK & EQUIPMENT TO BE GUARANTEED BY CONTRACTOR FOR ONE (1) YEAR

ITEMS AS CLOSELY AS POSSIBLE TO THE SPECIFICATIONS & AS CALLED FOR ON THE DRAWINGS.

CKT CIRCUIT CLG CEILING CO CONDUIT ONLY COMP COMPRESSOR CP CONDENSATE PUMP

CPT CONTROL POWER TRANSFORMER

ALL MATERIALS AND EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS & GOOD RECOMMENDED PRACTICES.

ELECTRICAL CONTRACTOR SHALL GIVE FULL COOPERATION TO OTHER TRADES. WHERE THE WORK OF ELECTRICAL CONTRACTOR WILL BE INSTALLED IN CLOSE PROXIMITY TO, OR WILL INTERFERE WITH WORK OF OTHER TRADES, HE SHALL ASSIST IN WORKING OUT SPACE CONDITIONS TO MAKE SATISFACTORY ADJUSTMENTS. IF ELECTRICAL CONTRACTOR INSTALLS HIS WORK BEFORE COORDINATING WITH OTHER TRADES. HE SHALL MAKE THE NECESSARY CHANGES IN HIS WORK TO CORRECT THE CONDITION WITHOUT EXTRA CHARGE.

ELECTRICAL SPECIFICATIONS

IT IS THE INTENT OF THESE SPECIFICATIONS FOR THE ELECTRICAL CONTRACTOR TO FURNISH A COMPLETE ELECTRICAL SYSTEM, FULLY ADJUSTED, &

ALL ELECTRICAL WORK TO BE DONE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE OBSERVING ALL STATE &

ELECTRICAL CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS & PAY ALL SALES TAXES, UTILITY COMPANY CHARGES FOR

THE MATERIAL & EQUIPMENT HAS BEEN CAREFULLY SELECTED FOR THIS PROJECT & THE ELECTRICAL CONTRACTOR IS EXPECTED TO PROVIDE ALL

ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS,

NOT SHOWN ON DRAWINGS AND/OR SPECIFIED. NO CLAIM FOR EXTRAS WILL BE APPROVED WITHOUT PRIOR COORDINATION FOR CONFLICTS BY

UPON COMPLETION OF ALL WORK & ALL TESTS, ELECTRICAL CONTRACTOR SHALL INSTRUCT THE OWNER OR HIS REPRESENTATIVE FULLY IN THE

SCHEDULE FOR THE PRINCIPAL ITEMS OF EQUIPMENT FURNISHED. MANUFACTURER'S ADVERTISING LITERATURE OR CATALOGS WILL NOT BE

OPERATIONS, ADJUSTMENTS, & MAINTENANCE OF EQUIPMENT FURNISHED. ELECTRICAL CONTRACTOR SHALL PROVIDE OWNER WITH MAINTENANCE

ELECTRICAL CONTRACTOR SHALL SUBMIT THREE (3) SETS OF EQUIPMENT DATA SHOP DRAWINGS TO THE ENGINEER FOR ALL ITEMS TO BE FURNISHED &

DRAWINGS, INCIDENTAL CONSTRUCTION WORK, ETC., IN ORDER TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, & REGULATIONS, WHETHER OR

ELECTRICAL CONTRACTOR TO ENSURE THAT ALL MATERIAL & EQUIPMENT FURNISHED FOR THIS PROJECT WHICH CAN BE U.L. LISTED SHALL BE.

THE DRAWINGS ARE DIAGRAMMATIC & INDICATE THE GENERAL ARRANGEMENTS OF SYSTEMS & WORK INCLUDED IN THE CONTRACT. THE DRAWINGS

EXISTING INFORMATION SHOWN ON DRAWINGS TAKEN FROM OWNER FURNISHED AS BUILT DRAWINGS & LIMITED SITE SURVEY. CONTRACTOR TO FIELD VERIFY ALL EXISTING EQUIPMENT, CIRCUITS, & WIRING.

ELECTRICAL CONTRACTOR TO VERIFY EXACT LOCATION OF EQUIPMENT, ROUTING PIPE, ETC., & WORK CLOSELY WITH OTHER TRADES TO AVOID

CONFLICTS. ELECTRICAL CONTRACTOR TO LOCATE & INSTALL ELECTRICAL CONTROL PANELS IN SUITABLE LOCATION WITH APPROPRIATE CLEARANCES & OVERLOAD

PROTECTION FOR ALL ITEMS REQUIRED. ELECTRICAL CONTRACTOR MAY COMBINE CONDUITS WHERE APPLICABLE, BUT MUST HOOK UP ITEMS TO PROPER CIRCUITS AS SHOWN.

THE OWNER, ARCHITECT & ELECTRICAL CONTRACTOR TO COORDINATE FOR PROPER CUTOUT HOLES, ALL STUB-UPS & JUNCTION BOXES, & TO VERIFY

WHERE ALUMINUM CONDUCTORS ARE UTILIZED THEY SHALL BE TERMINATED WITH BURNDY HY-PLUG, HYDRAULIC COMPRESSION TERMINATORS.

ALL CONDUCTORS, THROUGH #10 AWG, TO BE SOLID COPPER WITH TYPE THWN/THHN OR XHHW INSULATION UNLESS NOTED OTHERWISE.

ALL CONDUCTORS, #8 AWG AND LARGER, TO BE CLASS B STRANDED COPPER WITH TYPE THWN/THHN OR XHHW INSULATION UNLESS NOTED OTHERWISE.

THE COLOR CODE FOR CONDUCTORS SHALL BE BLACK, RED, BLUE, WHITE (120/208V, 3Ø, Y).

PROVIDE GREEN GROUNDING CONDUCTOR WITH ALL CIRCUITS.

P.V.C. CONDUIT SHALL NOT BE USED IN AREAS OF ASSEMBLY

ALL WIRING TO BE IN CONDUIT OR APPROVED RACEWAY

ELECTRICAL CONTRACTOR SHALL PROVIDE & INSTALL SMOOTH PLASTIC DEVICE PLATES BRYANT 70000 SERIES LEVITON 85/86000 SERIES OR APPROVED EQUAL. PLATES SHALL BE OF THE SAME COLOR AS THE DEVICE (REFER TO SYMBOL SCHEDULE). EXTERIOR MOUNTED BOXES SHALL HAVE APPROVED WEATHERPROOF PLATES &/OR COVERS. ALL SURFACE INSTALLED BOXES SHALL HAVE STAMPED STEEL DEVICE PLATES.

ALL DEVICE OUTLETS SHALL BE FLUSH MOUNTED UNLESS SPECIFICALLY NOTED.

GENERAL ELECTRICAL NOTES

- THIS CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS & TRADES TO LOCATE HIS WORK TO AVOID
- ALL 2'x4' LIGHT FIXTURES ARE TO BE RELOCATED EXISTING DEVICES UNLESS SPECIFICALLY NOTED OTHERWISE. CONTRACTOR TO COORDINATE FIXTURE MOUNTING METHOD (FLANGED, GRID, SPLINE ETC.) WITH TYPE OF CEILING ACTUALLY INSTALLED IN THESE AREAS, TYPICAL.
- THIS CONTRACTOR SHALL NOT UTILIZE "THRU TYPE" OUTLET BOXES WHERE DEVICES ARE SHOWN BACK TO BACK IN SOUND INSULATED OR SOUND SECURE AREAS, TYPICAL.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. SMOKE DETECTORS FOR AIR HANDLING UNITS SHALL BE LOCATED IN AIR DUCTS OBSERVING ALL APPLICABLE CODES & ORDINANCES. ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION & REQUIREMENTS OF INSTALLATION WITH MECHANICAL CONTRACTOR PRIOR TO CUTTING DUCTWORK. LOCATE THE DETECTOR INDICATOR/RESET DEVICE IN AN ACCESSIBLE LOCATION AS DIRECTED BY THE ARCHITECT & LABEL AS TO AREA & ROOFTOP UNIT SERVED, TYPICAL.
- THE SYMBOL "*" DENOTED GROUNDING CONDUCTOR, TYPICAL UNLESS OTHERWISE NOTED, ALL CONDUITS SHALL BE 3/4" MINIMUM.
- THIS CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS & PLACEMENT OF LIGHT FIXTURES, OUTLET BOXES, DEVICES, & EQUIPMENT WITH SITE & ARCHITECTURAL DRAWINGS, INCLUDING REFLECTED CEILING PLANS, INTERIOR & EXTERIOR ELEVATIONS, DETAILS, & SECTIONS, PRIOR TO ROUGH-IN; OR RELOCATE AS DIRECTED BY THE DESIGNER AT NO ADDITIONAL COST TO THE OWNER. ELECTRICAL DRAWINGS ARE NOT TO BE SCALED FOR SUCH LOCATIONS.
- MOUNTING HEIGHTS GIVEN ARE TO TOP OF OUTLET BOX, UNLESS OTHERWISE NOTED. HEIGHTS MAY BE ADJUSTED TO MATCH MASONRY JOINTS, & MUST COMPLY WITH 2017 NEC.
- LIGHT FIXTURE WHIPS SHALL NOT EXCEED 6' IN LENGTH.
- 10. ALL CONDUITS & RACEWAYS ARE TO BE CONCEALED UNLESS OTHERWISE NOTED OR APPROVED BY THE DESIGNER. 11. ALL CONDUITS, SLEEVES, INSERTS, OUTLET BOXES, & OTHER ROUGH-IN MATERIALS SHALL BE INSTALLED AS BUILDING
- CONSTRUCTION PROGRESSES. 12. IN MECHANICAL ROOMS & OTHER AREAS WHERE LIGHT FIXTURES ARE SPECIFIED, & DUCT WORK & PIPING IS INSTALLED,
- ELECTRICAL CONTRACTOR SHALL INSTALL LIGHT FIXTURES AFTER INSTALLATION OF MECHANICAL CONTRACTORS DUCT
- 13. ALL ELECTRICAL PANELS TO BE LABELED WITH PHENOLIC LABELS.

OCCUPANCY SENSOR GENERAL NOTES

- 1. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
- 2. ULTRASONIC CEILING MOUNT SENSORS SHOULD BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN
- CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR NON-ADAPTIVE PRODUCTS, FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
- 4. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS: A. ONE POWER PACK IS REQUIRED FOR EACH CONTROLLED CIRCUIT.
- B. EACH POWER PACK CAN SUPPLY UP TO 150MA. REFER TO INSTALLATION GUIDE FOR MAXIMUM NUMBER OF SENSORS CONNECTED TO POWER PACK.
- C. IF MULTIPLE CIRCUITS ARE TO BE CONTROLLED BY A SINGLE SENSOR, AUXILIARY RELAYS MAY BE USED IN CONJUNCTION WITH A POWER PACK.
- 5. SENSORS MOUNTED OVER DOORWAYS SHOULD BE PLACED ONE (1) FOOT INSIDE THRESHOLD.

GENERAL ELECTRICAL NOTES FOR DEMOLITION

- FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES ON DRAWINGS
- UNLESS OTHERWISE NOTED, THE OWNER RETAINS THE RIGHT TO RETAIN ALL ITEMS &/OR MATERIALS IN GOOD CONDITION FOLLOWING REMOVAL AND/OR DEMOLITION. OTHERWISE, THE CONSTRUCTION MANAGER SHALL DISPOSE OF ALL OTHER ITEMS & MATERIALS IN A LEGAL FASHION.
- IF ANY ASBESTOS-CONTAINING MATERIAL IS SUSPECTED, G.C. SHALL STOP DEMOLITION & CONTACT THE OWNER'S REPRESENTATIVE IMMEDIATELY. THE OWNER SHALL CONTRACT WITH AN ASBESTOS ABATEMENT CONTRACTOR UNDER A SEPARATE CONTRACT FOR THE REMOVAL OF ALL EXISTING ASBESTOS-CONTAINING MATERIAL, SHOULD ANY BE ENCOUNTERED.
- FOR WALL MOUNTED DEVICES: (TYPICALLY RECEPTACLES, DATA/TV OUTLETS & LIGHT SWITCHES) UNLESS SPECIFICALLY IDENTIFIED BY DEMOLITION NOTE, WALL MOUNTED DEVICES ARE TO REMAIN UNLESS NOTED. RETAIN REMOVED DEVICES AND CLEAN, REPAIR OR REPLACE FOR RE-USE AS IS PRACTICAL.
- FOR CEILING MOUNTED DEVICES: (TYPICALLY LIGHTING FIXTURES EXIT LIGHTS, WIRELESS TRANSMITTERS, CAMERAS, SMOKE DETECTORS, SPEAKERS, ETC.) UNLESS NOTED OTHERWISE IN DEMOLITION NOTES, CEILING DEVICES ARE TO REMAIN. RETAIN REMOVED DEVICES & CLEAN, REPAIR OR REPLACE FOR RE-USE AS IS PRACTICAL.
- LIGHTING, POWER, & DATA CONTRACTOR MAY REUSE EXISTING CONDUIT & WIRING TO THE EXTENT POSSIBLE IN PROVIDING A COMPLETE & OPERABLE SYSTEM. CONTRACTOR IS TO PROVIDE ALL LABOR & MATERIALS, INCLUDING BUT NOT LIMITED TO DEVICES, BOXES, CONDUIT, & WIRING FROM ALL DEVICES TO APPROPRIATE DISTRIBUTION/CONTROL PANEL IN ORDER TO PROVIDE A COMPLETE & OPERABLE SYSTEM. CONTRACTOR TO FIELD VERIFY ALL EXISTING QUANTITIES & LOCATIONS & COORDINATE CLOSELY WITH OWNER.
- E.C. TO TAKE CARE IN REMOVING, TAGGING, & STORING DEVICES DURING DEMO PHASE, & REPLACING DEVICES TO BE REUSED DURING NEW CONSTRUCTION PHASE. EXISTING CEILING MOUNTED DEVICES TO BE REINSTALLED AS CLOSE AS POSSIBLE TO ORIGINAL LOCATION. PROVIDE MATERIAL & LABOR FOR EXTENDING CONDUIT & WIRING, AS REQUIRED, FOR REINSTALLATION. ENSURE PROPER OPERATION AFTER CONSTRUCTION
- WHERE RECEPTACLES ARE REMOVED, ELECTRICAL CONTRACTOR TO REMOVE EXISTING RECEPTACLE DEVICE. BOX, CONDUIT & WIRING BACK TO IT'S SOURCE. WHERE CIRCUIT FEEDING RECEPTACLE TO BE REMOVED ALSO FEEDS RECEPTACLES THAT ARE TO REMAIN. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT. WIRING & BOXES AS REQUIRED TO RE-FEED EXISTING RECEPTACLES, AS REQUIRED, FOR PROPER OPERATION, SEE INSTALLATION DRAWINGS & PANEL SCHEDULES FOR ADDITIONAL CIRCUITING INFORMATION.
- WHERE LIGHTING FIXTURES & ASSOCIATED SWITCHING ARE REMOVED, ELECTRICAL CONTRACTOR TO REMOVE EXISTING FIXTURE, SWITCH, SWITCH BOX, CONDUIT & WIRING BACK TO IT'S SOURCE. WHERE CIRCUIT FEEDING FIXTURE(S) TO BE REMOVED ALSO FEEDS FIXTURE(S) THAT ARE TO REMAIN, ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, WIRING & BOXES AS REQUIRED TO RE-FEED EXISTING FIXTURE(S), AS REQUIRED, FOR PROPER OPERATION. SEE INSTALLATION DRAWINGS & PANEL SCHEDULES FOR ADDITIONAL CIRCUITING INFORMATION.
- WHERE JB'S, PULL BOXES, CONDUIT, OR OTHER ELECTRICAL DEVICES ARE FOUND WITH WIRING & WITHOUT COVERS, E.C. TO PROVIDE COVERS, &/OR CAPS. WHERE JB'S, PULL BOXES, CONDUIT, OR OTHER ELECTRICAL DEVICES ARE FOUND WITHOUT WIRING, E.C. TO REMOVE BACK TO SOURCE OR NEAREST POPULATED JUNCTION.

EXISTING BUILDING NOTES

- WHERE INDICATED REMOVE ALL CONDUIT, WIRING, & ELECTRICAL EQUIPMENT, INCLUDING PREVIOUSLY ABANDONED, RENDERED USELESS BY CONSTRUCTION.
- EXISTING WIRING, DEVICES, ELECTRICAL PANELS, ETC., ARE SHOWN LIGHTER & DASHED,
- EXISTING WIRING & RACEWAYS TO BE REUSED WHERE POSSIBLE OR PRACTICAL, & EXISTING WIRING IS FOUND TO BE IN GOOD CONDITION; REPLACE ANY EXISTING WIRING FOUND TO BE IN POOR CONDITION. ALL NEW INSTALLATIONS SHALL USE NEW WIRE, TYPICAL.
- ALL MATERIALS REMOVED & NOT TO BE REUSED ARE TO BE DISPOSED OF PER OWNER'S INSTRUCTIONS. ALL FIXTURES ARE 120V UNLESS INDICATED OTHERWISE BY CIRCUIT DESIGNATOR OR FIXTURE SCHEDULE.
- COORDINATE LOCATIONS OF EXISTING AIR HANDLER DISCONNECTS & RELOCATE THOSE AFFECTED BY WALL DEMOLITION. COORDINATE NEW LOCATIONS WITH ARCHITECT OR OWNER.
- IN CORRIDORS. RESTROOMS & OTHER AREAS WHERE EGRESS LIGHTING MAY BE REQUIRED. COORDINATE WITH
- LIGHTING PLANS FIXTURES THAT MAY NEED TO BE RE-WIRED TO MEET CODE EGRESS REQUIREMENTS.
- COORDINATE REPLACEMENT OF EXISTING SWITCHLEGS TO NEW DIMMING AND/OR OCCUPANCY SENSOR SWITCHES WITH NEW ELECTRICAL LIGHTING PLANS.

	ELECTRICAL FIXTUR	E S	CHEDUL	.E	
SYMBOL	DESCRIPTION	LAMPS	MOUNTING	INPUT WATTS	DRIVER
Α	2x4, LED TROFFER, CURVED CENTER LENS, 3000 LUMENS, 3500°K COLOR TEMPERATURE, U.L. LISTED DAMP LOCATION LITHONIA #2BLT4 30L ADP MVOLT 835	LED	CEILING RECESSED	30	DIMMING LED DRIVER
В	12" UNDER CABINET STRIP, LED, 0-10V DIMMING, 434 LUMENS, 3500°K COLOR TEMPERATURE, CONNECTIONS AS REQUIRED. LITHONIA #RAZ 12IN 30K 90CRI	LED	SURFACE, UNDER CABINET	10	DIMMING LED DRIVER
С	EXIT SIGN, LED, WHITE, 90 MINUTE BACKUP BATTERY, RED LETTERING, COORDINATE MOUNTING & ARROWS WITH PLANS LITHONIA #LQM S W 3 R 120/277 EL N	LED	CEILING SURFACE, OR WALL AT 7'-6" AFF	1	LED DRIVER
D	DUAL-HEAD EMERGENCY EGRESS, LED, 640 LUMENS, WHITE, 90 MINUTE BACKUP BATTERY LITHONIA #ELM4L UVOLT LTP	LED	WALL AT 7'-6" AFF	7	LED DRIVER

COMPARABLE PRODUCTS BY PHILLIPS LIGHTING AND COOPER

ELECTRICAL SYMBOL SCHEDULE

	ALL SYMBOLS MAY NOT BE USED	JOLL
SYMBOL	DESCRIPTION	MOUNTING
Φ'x'	RECEPTACLE, COMMERCIAL GRADE, DUPLEX, HUBBELL #BR20I 20 AMPERE RATED, GROUNDING TYPE, 2 POLE, 3 WIRE, 125 VOLTS.	1'-6" AFF OR AS NOTED
$lack {f P}$	RECEPTACLE, SAME AS ABOVE EXCEPT MOUNTING HEIGHT.	6" ACT TO BTM-WHEN THERE IS NO COUNTER, MNT AT 42" AFF TO BTM
\Diamond	GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE, 20 AMP, FEED-THRU TYPE, STANDARD DUTY. HUBBELL #GFRST20I.	1'-6" AFF OR AS NOTED
•	RECEPTACLE, SAME AS ABOVE EXCEPT MOUNTING HEIGHT.	6" ACT TO BTM-WHEN THERE IS NO COUNTER, MNT AT 42" AFF TO BTM
$\Phi^{\mathbb{SB}_{\bullet}}$	EXISTING SMARTBOARD RECEPTACLE & DATA LOCATION.	EXISTING
\triangle	DATA OUTLET BOX. PROVIDE BOX, 1" CONDUIT WITH PULLWIRE TO ABOVE ACCESSIBLE CEILING	1'-6" AFF OR AS NOTED
\triangle	DATA OUTLET BOX. PROVIDE BOX, AS NOTED ABOVE, EXCEPT MOUNTING HEIGHT.	6" ACT TO BTM-WHEN THERE IS NO COUNTER, MNT AT 42" AFF TO BTM
S	SWITCH, SINGLE POLE, 20 AMP, COMMERCIAL DUTY, HUBBELL #CSB120I 120/277 VOLT RATED, IVORY COLOR	4'-0" AFF TO TOP OR AS NOTED
S_3	SWITCH, SINGLE POLE, 20 AMP, COMMERCIAL DUTY, HUBBELL #CSB320I, 120/277 VOLT RATED, IVORY COLOR	4'-0" AFF TO TOP OR AS NOTED
S _D	SINGLE POLE DIMMER SWITCH STATION - BUTTON ACTION HUBBELL 'NX' SMART SWITCH, #NXSW-ORLO. GANG ONLY PER MANUFACTURER'S RECOMMENDATIONS FOR OPTIMUM PERFORMANCE.	4'-0" AFF TO TOP OR AS NOTED
((EXISTING CEILING MOUNTED OCCUPANCY SENSOR LOCATION.	EXISTING
•	RANGE HOOD JUNCTION BOX.	COORDINATE MOUNTING HEIGHT WITH ARCHITECT

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PISGAH HIGH SCHOOL II

Project Number: 19012 Checked: ___JSD_

ELECTRICAL SPECIFICATIONS, **NOTES & SYMBOLS**

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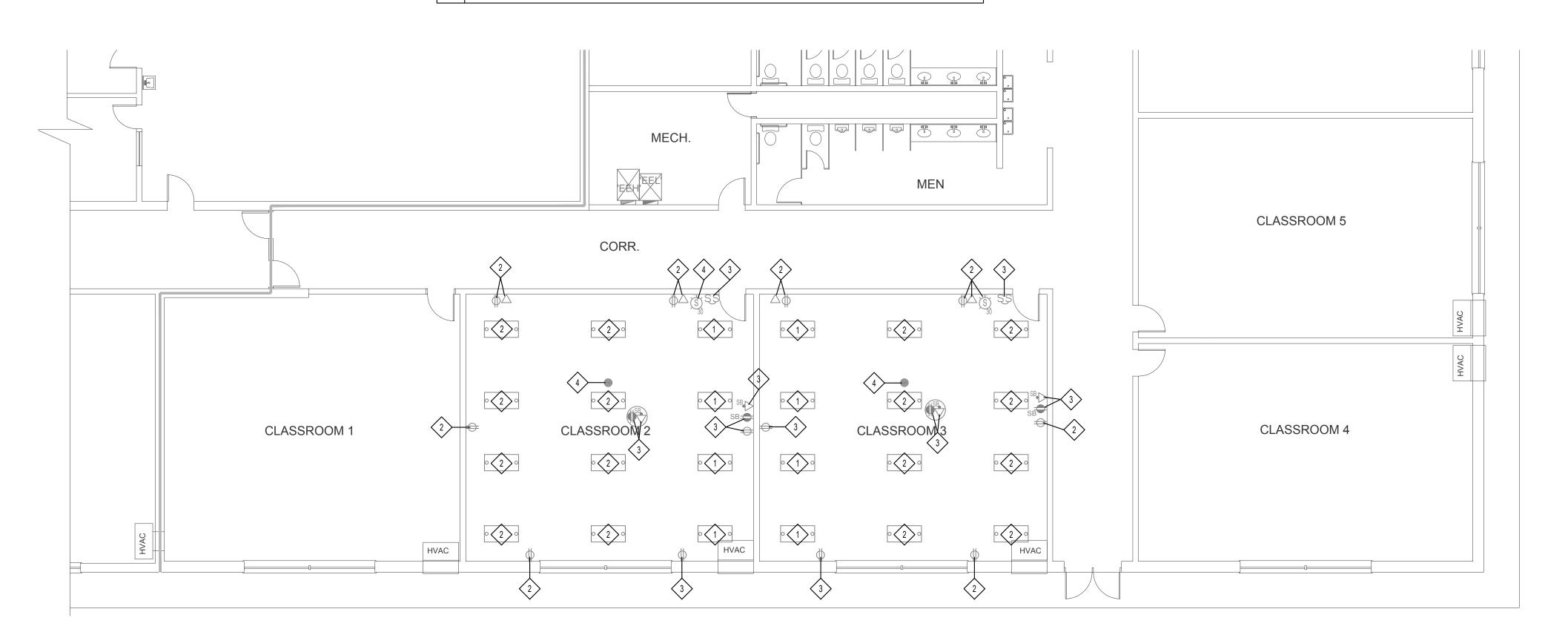
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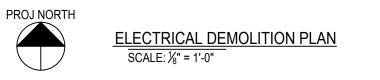
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KEYED ELECTRICAL DEMOLITION NOTES

- EXISTING LIGHT FIXTURE TO BE REMOVED PRIOR TO CEILING DEMOLITION. STORE FOR RE-USE. CLEAN, RE-LAMP & REPAIR OR REPLACE ALL DEVICES IN ORDER FOR PROPER OPERATION. EXISTING SWITCHLEG, WIRING & CONDUIT TO REMAIN FOR RE-USE.
- EXISTING ELECTRICAL DEVICE TO REMAIN. CLEAN & REPAIR OR REPLACE AS NECESSARY FOR PROPER
- EXISTING ELECTRICAL DEVICE TO BE REMOVED PRIOR TO DEMOLITION. EXISTING WIRING & CONDUIT TO BE REMOVED TO SOURCE. ANY DEVICES REMAINING & SHARING THE CIRCUIT TO BE LEFT IN OPERATION. EXISTING ELECTRICAL DEVICE TO BE RELOCATED. COORDINATE NEW LOCATION WITH NEW ELECTRICAL PLANS. EXTEND OR SHORTEN EXISTING WIRING & CONDUIT AS REQUIRED. CLEAN & REPAIR OR REPLACE EXISTING DEVICE AS REQUIRED FOR PROPER OPERATION.



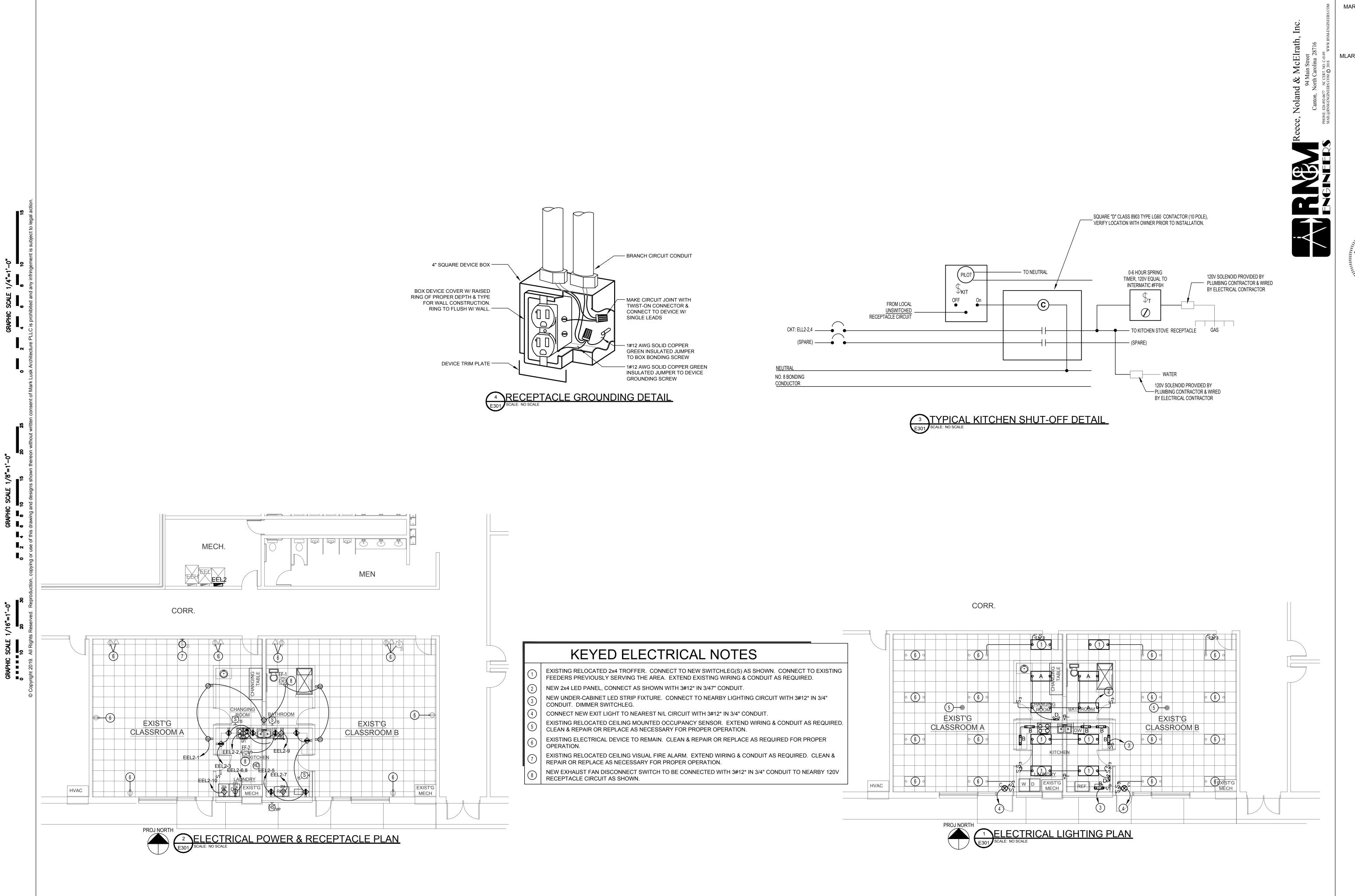


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ELECTRICAL DEMOLITION PLAN & NOTES

E201



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PISGAH HIGH SCHOOL II

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Checked: JSD
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Date: 10/08/19

ELECTRICAL LIGHTING & POWER PLANS

E301



	FIRE ALARM SYMBOL SCHEDULI	E
SYMBOL		MOUNTING
(SD)	SMOKE DETECTOR, PHOTO-ELECTRIC TYPE, EST # SIGA-PS w/ SIGA-SB BASE	CEILING SURFACE
@	HEAT DETECTOR, RATE OF RISE and/or 135°F FIXED TEMPERATURE, EST #SIGA-HRS w/ SIGA-SB BASE	CEILING SURFACE
Ē	MANUAL PULL STATION, EST #SIGA-278 W/PLEXIGLASS COVER WITH HORN.	4'-0" AFF
(CLG MNT) (WALL MNT)	SPEAKER/STROBE ALARM, FIELD CONFIGURABLE 15, 30, 95 CANDELLA AND SELECTABLE HIGH/LOW DB OUTPUT. GENESIS WALL SERIES, G4HFWN-52VMC SERIES W/FLUSH MOUNT BACK BOX. GENESIS CLG SERIES, EGC-HDVM SERIES W/FLUSH MOUNT BACK BOX.	WALL 80"-96" AFF (6" BELOW CLG MIN.) OR CEILING
⊕ _{WP}	WEATHERPROOF AUDIO(HORN)/STROBE ALARM, w/WEATHERPROOF FLUSH MOUNT BACK BOX, EST #757-8A-HS w/ 757A-WB BACK BOX.	WALL 7'-6" AFG
(CLG MNT)	STROBE ALARM, FIELD CONFIGURABLE 15, 30, 75, 95 CANDELLA. WALL-GENESIS SERIES EG1-VM SERIES W/FLUSH MOUNT BACK BOX. CEILING - GENESIS SERIES GCFR-VM W/FLUSH MOUNT BACK BOX.	WALL 80"-96" AFF (6" BELOW CLG MIN.) OR CEILING

NOTES:

- FURNISH AND INSTALL WIRING AND CONDUIT SIZED PER FIRE ALARM SYSTEM MANUFACTURER'S RECOMMENDATIONS, PRODUCT

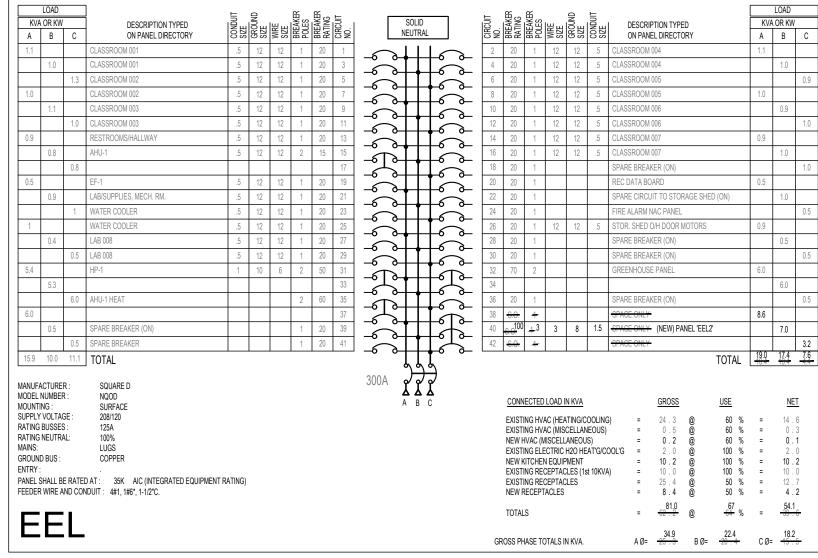
 SPECIFICATIONS & MATIONAL ELECTRIC CORE 3/1 CONDUIT MINIMUM.
- SPECIFICATIONS, & NATIONAL ELECTRIC CODE. 3/4" CONDUIT MINIMUM.

 2. REFER TO SPECIFICATIONS FOR TRANSMISSION REQUIREMENTS OF DIGITAL COMMUNICATOR.
- PROVIDE EXTRA (2) TYPICAL VISUAL ALARMS & (2) TYPICAL SMOKE DETECTORS TO BE INSTALLED AT FIRE INSPECTORS DISCRETION.
 ALL SMOKE AND HEAT DETECTORS TO BE LOCATED MIN. 3' FROM AIR
- VENTS.

 5. PROPER INSTALLATION AND PHYSICAL LOCATION OF EACH DUCT DETECTOR AND ACCESS DOORS SHALL BE COORDINATED BETWEEN THE ELECTRICAL, THE MECHANICAL, AND THE FIRE ALARM SUBCONTRACTORS, AND APPROVED BY THE ELECTRICAL ENGINEER
- PRIOR TO EQUIPMENT INSTALLATION.

 6. THE EXISTING FIRE ALARM IS A SIMPLEX 4100 ADDRESSABLE FIRE ALARM SYSTEM. THE NEW DEVICES SHOWN SHALL MATCH THE EXISTING DEVICES. THE SCOPE OF WORK SHOULD INCLUDE ANY NECESSARY CARDS, POWER SUPPLIES, OR CONTROLLER UPGRADES FOR A FULLY FUNCTIONAL AND INTEGRATED FIRE ALARM SYSTEM. ALL NEW INITIATING DEVICES SHOULD PROVIDE POINT ANNUNCIATION TO THE EXISTING SIMPLEX 4100 ADDRESSABLE FIRE ALARM PANEL.

-EXISTING PANEL 'EEL', INFORMATION TAKEN FROM ELECTRICAL DRAWINGS DATED JULY 1, 2013 & AUGUST 2019 SITE VISIT. EXISTING INFORMATION SHOWN LIGHTER, NEW INFORMATION SHOWN DARKER.



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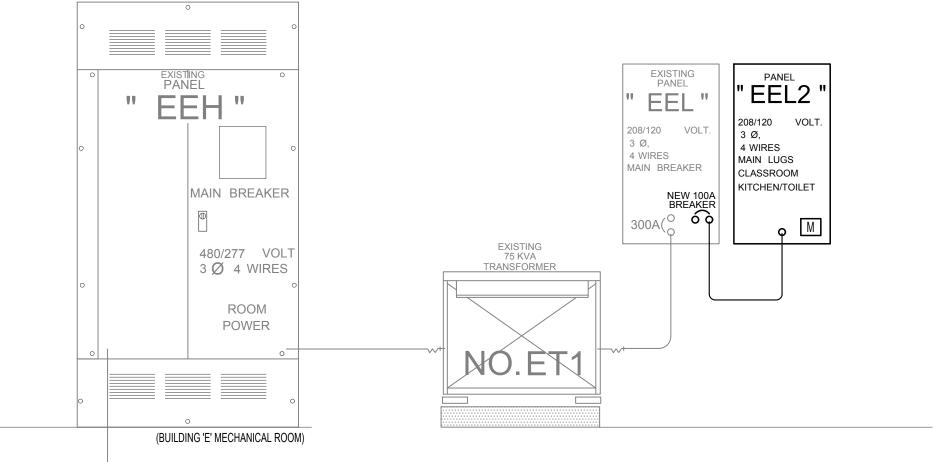
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ELECTRICAL PANEL SCHEDULE & RISER

E401



EXISTING SECONDARY

CHECK METERING LOCATION TO BE PROVIDED AT ALL PANELBOARDS. PROVIDE SUFFICIENT SPACE TO ATTACH CLAMP-ON OR SPLIT-CORE CURRENT TRANSFORMER. TYPICAL.

1 PARTIAL ELECTRICAL RISER
E401 SCALE: NO SCALE