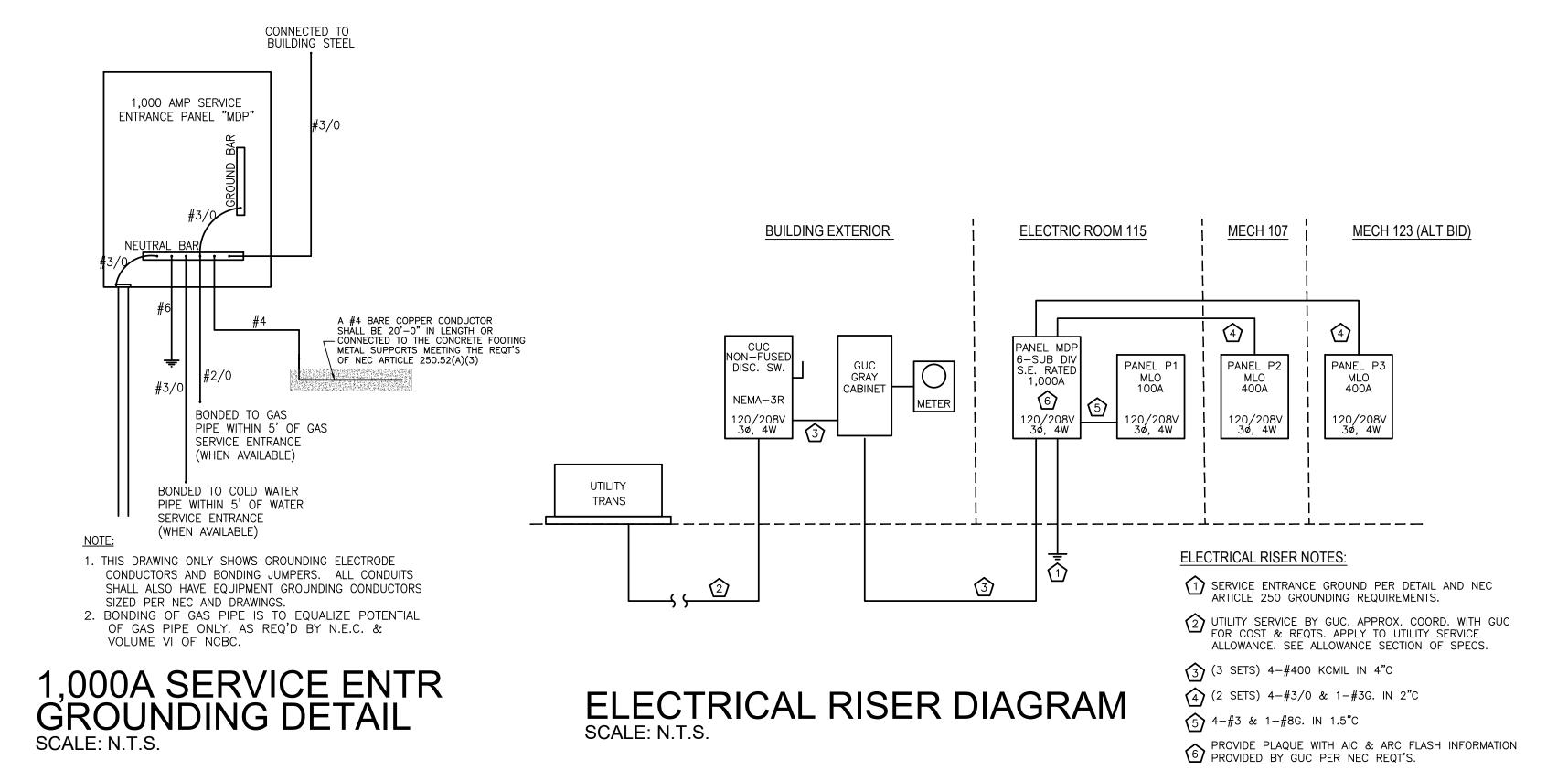
OF ALL EQUIPMENT.

ELECTRICAL CONNECTION DETAIL SCALE: N.T.S.

ELECTRICAL SUMMARY
ELECTRICAL SYSTEM AND EQUIPMENT
METHOD OF COMPLIANCE:
ENERGY CODE: PRESCRIPTIVE ☑ PERFORMANCE ☐ ASHRAE 90.1: PRESCRIPTIVE ☐ PERFORMANCE ☐
LIGHTING SCHEDULE LAMP TYPE REQUIRED IN FIXTURE: VARIES (SEE LIGHT FIXTURE SCHEDULE THIS DRAWING) NUMBER OF LAMPS IN FIXTURE: VARIES (SEE LIGHT FIXTURE SCHEDULE THIS DRAWING) BALLAST TYPE IN FIXTURE: VARIES (SEE LIGHT FIXTURE SCHEDULE THIS DRAWING) NUMBER OF BALLASTS IN FIXTURE: VARIES (SEE LIGHT FIXTURE SCHEDULE THIS DRAWING) TOTAL WATTAGE PER FIXTURE: VARIES (SEE LIGHT FIXTURE SCHEDULE THIS DRAWING) TOTAL INTERIOR WATTAGE SPECIFIED .VS. ALLOWED: 17,600W VS. 21,457W EXTERIOR LIGHTING ZONE: 3 EXTERIOR LIGHTING WATTAGE SPECIFIED .VS. ALLOWED: 800W VS. 1.350W
ADDITIONAL PRESCRIPTIVE COMPLIANCE
C406.2 More Efficient HVAC Equipment Performance
X 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
DESIGNER STATEMENT:
To the best of my knowledge and belief, the design of this building complies with the electrical system and equipment requirements of the North Carolina Building Code, Energy Conservation Code.
SIGNED: Dittoria
NAME:D. WILSON POU, P.E.
TITLE: PROFESSIONAL ENGINEER

LI	LIGHT FIXTURE SCHEDULE						
TYPE	DESCRIPTION	LAMPS	VOLTS	WATTS	B.F.		
A1	2'x4' LAY-IN LED FLAT PANEL WITH ACRYLIC LENS. PROVIDE WITH LOW LUMEN PACKAGE (3,000-4,000 LUMENS) AND DIMMING DRIVER. PROVIDE - COLUMBIA#: SRP24-40VWHE-G-ESD-U LITHONIA#: EPANL-2X4-3000LM-80CRI-40K-MIN10-SLD-MVOLT OR WILLIAMS#: LP-24-L50-8-40-SD50-UNV	LED	MULTI	27W	-		
A2	2'x4' LAY-IN LED FLAT PANEL WITH ACRYLIC LENS. PROVIDE WITH MEDIUM LUMEN PACKAGE (4,600-5,600 LUMENS) AND STEP DIMMING DRIVER. PROVIDE - COLUMBIA#: SRP24-40ML-G-ESD-U LITHONIA#: EPANL-2X4-4800LM-80CRI-40K-MIN10-SLD-MVOLT OR WILLIAMS#: LP-24-L50-8-40-SD50-UNV	LED	MULTI	45W	-		
В	6" RECESSED LED FIXTURE, MEDIUM CUTOFF ANGLE. 4500 LUMENS, DIMMING DRIVER. PROVIDE – PRESCOLITE#: LTR-6RD-30L-40K-WD-S-DM1-UNV LITHONIA#: LDN6-40-40-L06-AR-LSS-MVOLT-GZ10 OR WILLIAMS#: 6DR-TL-L40-8-40-DIM1-UNV-0-W-CS	LED	MULTI	45W	-		
BE	SAME AS "B" FIXTURE ABOVE. "E" INDICATES THAT THE FIXTURE HAS BATTERY BACK-UP FOR EMERGENCY EGRESS OPERATION.						
С	8' ASYMMETRIC THROW LINEAR LED INDIRECT SOFFIT LIGHT. 1,000 LUMENS/LF, DIMMING DRIVER, CLEAR LENS. (48FT RUN) PROVIDE: EF ILLUMINATION#: EN6C-12F-8040-PL-D2-096-UNV-W LITHONIA#: WILLIAMS#:	LED	MULTI	12W/LF	1		
G	ROUND ARENA STYLE LED LIGHT FIXTURE WITH ALUMINUM HOUSING AND MEDIUM DISTRIBUTION. PROVIDE WITH DIMMING DRIVER AND WIRE GUARD. PROVIDE: TOPAZ #: FLUB-300W-50-UNV-WG OR DAY-BRITE#: HCY-2833-80/50-UNV-WG OR RAB #: H17-XL-50-W-UNV-WG	LED	UNV	300W	j		
GE	SAME AS "G" FIXTURE ABOVE. "E" INDICATES THAT 1/3 OF THE LEDS IN THE THE FIXTURE HAVE BATTERY BACK—UP FOR EMERGENCY EGRESS OPERATION.						
S	4' LOW PROFILE LED LIGHT FIXTURE WITH MEDIUM LUMEN OUTPUT (3,500-4,000 LUMENS) AND FROSTED ACRYLIC LENS. PROVIDE COLUMBIA #: MPS-4-40-LW-F-N-E-U OR WILLIAMS #: 75S-4-L30-80-40-DIM-U OR LITHONIA #: ZLN1-L48-3000LM-FST-MVOLT-40K-80CRI-WH	LED	MULTI	20W	_		
SH	LED SHOWER UL LISTED DOWNLIGHT. PROVIDE LITHONIA #: EVO6SH WAC LIGHTING — OCULUX LIGHTOLIER — LYTEPROFILE	LED	UNIV	30W	-		
WA	EXTERIOR LED WALL PACK WITH HEAVY DUTY TWO PIECE, DIE-CAST ALUMINUM HOUSING WITH CLEAR PRISMATIC BOROSILICATE GLASS LENS. LARGE SIZE AND UL LISTED FOR WET LOCATIONS. PROVIDE DECO #: D404-LED-80-40-UNV-BZ-FC-PC OR LITHONIA #: TWR2-LED-1-50K-MVOLT-DDB OR MAXLITE #: MLLWP60LED50PC27-150	LED	UNV	80W	-		
OR SE	CEILING OR WALL MOUNTED LED EXIT LIGHT CONFORMING TO NFPA 101 STANDARDS, w/ BATTERY & SOLID STATE CHARGER, SELF DIAGNOSTICS w/ A TEST CYCLE EVERY 30 DAYS MINIMUM, SELF—CONTAINED, DOUBLE OR SINGLE WHITE FACE/BODY, ABS THERMOPLASTIC HOUSING, PILOT & STATUS INDICATING LIGHTS, TEST SWITCH, & 90 MIN. EMERGENCY RUN TIME; EXIT SIGN SHALL HAVE 5 YEAR WARRANTY. PROVIDE HUBBELL #: CER50 OR WILLIAMS #: EXIT—R—EM—WHT—SDT OR LITHONIA #: LQM—S—W—3—R—120/277—ELN—SD	RED LED	120/ 6V	3.5W	N/A		
₩	AUTOMATIC, SELF—CONTAINED, SELF DIAGNOSTIC, MAINTENANCE FREE 2—HEAD EMERGENCY LIGHT. UL 924 LISTED AND NFPA 101 COMPLIANT, ABS THERMOPLASTIC HOUSING, PILOT & STATUS INDICATING LIGHTS. SELF DIAGNOSTICS SHALL INCLUDE CONTINUOS SELF CHECKS AND 30 MINUTE FULL LOAD TEST WITH CHARGER OFF EVERY 30 DAYS. PROVIDE HUBBELL #: CU2SD OR WILLIAMS #: EMER/LED—WHT—HL—SDT OR LITHONIA #: EU2—LED—M12	2-10W	120/ 6V	20W	N/A		
484	CEILING OR WALL MOUNTED LED EXIT & 2—HEAD EMERGENCY LIGHT CONFORMING TO NFPA 101 STANDARDS, W/ BATTERY & SOLID STATE CHARGER, SELF DIAGNOSTICS W/ A TEST CYCLE EVERY 30 DAYS MINIMUM, SELF—CONTAINED, DOUBLE OR SINGLE WHITE FACE/BODY, ABS THERMOPLASTIC HOUSING, PILOT & STATUS INDICATING LIGHTS, TEST SWITCH, & 90 MIN. EMERGENCY RUN TIME, EXIT LIGHT SHALL CONTINUE TO OPERATE FOR 24 HOURS FOLLOWING POWER OUTAGE; EXIT SIGN SHALL HAVE 5 YEAR WARRANTY. PROVIDE HUBBELL #: CCRSD OR LITHONIA #: LHQM—LED—R—HO—SD OR WILLIAMS #: EXIT/EM/LED—SF—R—WHT—HL—SDT	2-10W HALOGEN	120/ 6V	20	N/A		
46	WALL MOUNTED SCONCE LIGHT WITH PREMIUM MARINE GRADE DIE—CAST ALUMINUM HOUSING AND POLYCARBONATE GASKETED LENS TO WITHSTAND EXTREME WEATHER CONDITIONS. MOUNT ABOVE EXTERIOR DOOR. EMERGENCY LIGHT SHALL CONFORM WITH NFPA 101 STANDARDS AND NEC—700.16. PROVIDE HUBBELL #: CUWZ—PC OR WILLIAMS #: EMER/DECO—DBR—LT OR LITHONIA #: AFN—DB—EXT	2-6W	120/ 6V	12W	-		



CVAIDOL	ELECTRICAL SYMBOL LEGEND				
SYMBOL P	DESCRIPTION DUPLEX CONVENIENCE OUTLETS FOR GENERAL USE SHALL BE RATED 20 AMPERES, 125 VOLTS, DUPLEX, FOR STANDARD PARALLEL BLADE THREE-WIRE GROUNDED TYPE CAPS, HUBBELL NO. 5362 (BROWN) OR 5362-I (IVORY), OR EQUAL.				
•	QUADRUPLEX OUTLET AS SPECIFIED 240V OUTLET — AMPERAGE PER CIRCUIT BREAKER FED FROM				
₩Y GFI	DUPLEX OUTLET — GFI AS SPECIFIED				
₩P/GFI	DUPLEX OUTLET — GFI — EXTERIOR WATERPROOF AS SPECIFIED				
Ф ногіz	DUPLEX OUTLET — INSTALL HORIZONTALLY				
⊕ TP ⊕ TVSS	TAMPER PROOF DUPLEX OUTLET EQUAL TO HUBBELL No. SG62 DUPLEX w/ TRANSIENT VOLTAGE SURGE SUPPRESSION w/ LIGHT (NEMA 5-15), EQUAL TO HUBBELL No. 5260				
₩ 1133 Ф 16	NEMA 5-20R ISOLATED GROUND RECEPTACLE				
•	WATERTIGHT TWISTLOCK RECEPTACLE IN KITCHEN UTILITY DISTRIBUTION WALL				
<u> </u>	DUAL COMPARTMENT ALUMINUM RACEWAY SYSTEM, WIREMOLD No. ALA4800 w/ TWIN COVER; COLOR SELECTED BY ARCHITECT (SEE PLANS FOR RECEPTACLE & DATA OUTLET QUANITITES & LOCATIONS)				
•	RECEPTACLES MOUNTED IN STEEL CITY GAB SERIES AFM PRE SET FLOOR BOX. EACH BOX CONTAINS (6) DUPLEX RECEPTS (TYPICAL). SECURE SQUARE OF CARPET TO MATCH IN LID OF BOX (BY ELECT. CONTR., TYP)				
•	DATA OUTLETS MOUNTED IN STEEL CITY GAB SERIES AFM PRE SET FLOOR BOX. EACH BOX CONTAINS (4) DUAL DATA OUTLETS (TYPICAL). ROUTE (2) 1 ."C FROM EACH BOX BACK TO MDF ROOM. SECURE SQUARE OF CARPET TO MATCH IN LID OF BOX (BY ELECT. CONTR., TYP)				
F,S,H	FIRE ALARM INITIATING DEVICES; SEE LEGEND SHEET E-004				
∇ , ∇ , $\overline{\mathbf{W}}$	FIRE ALARM NOTIFICATION DEVICES; SEE LEGEND SHEET E-004				
abla, $ abla$, etc	VOICE/DATA DEVICES, SEE ICS LEGEND SHEETIC-101. E.C. RESPONSIBLE FOR ROUGH-IN AS INDICATED ON ELECTRICAL DRAWINGS				
⟨k ⟩, ⟨ D⟩	SECURITY DEVICES; SEE LEGEND THESE DWGS. E.C. RESPONSIBLE FOR ROUGH-IN AS INDICATED ON ELECTRICAL DRAWINGS				
\$ \$ ₃ ,\$ ₄	SINGLE POLE SWITCH - 48" A.F.F. U.O.N., 20 AMP, 120/277 VOLT, SPECIFICATION GRADE 3 OR 4-WAY SWITCH - 48" A.F.F. U.O.N., SPECIFICATION GRADE, SEE SPECIFICATION SECTION 16140				
\$ _K	3 OR 4-WAY SWITCH - 48" A.F.F. U.O.N., SPECIFICATION GRADE, SEE SPECIFICATION SECTION 16140 KEY-OPERATED SWITCH - 48" A.F.F. U.O.N.				
\$ _D _	DIMMER SWITCH RATED FOR LOAD - 48" A.F.F., LUTRON No. MAR OR APPROVED EQUAL				
\$ 000	DOUBLE POLE SINGLE THROW SWITCH - 48" A.F.F. MASTER / SATELLITE OR SPLIT BALLAST WIRING - SEE DETAILS THESE DRAWINGS				
\$\$ \$u	MASTER / SATELLITE OR SPLIT BALLAST WIRING — SEE DETAILS THESE DRAWINGS ELECTRONIC LIGHTING CONTROLLER AS SPECIFIED				
\$ _M	MOTOR STARTER SWITCH w/ PILOT LIGHT, HUBBELL No. HBL3031PL OR EQUAL BY SQUARE D				
(T) & (S)	VERTICAL J-BOX FOR THERMOSTATS & SENSORS - 54"AFF U.O.N ?" E.C. TO UTILITY PLATFORM; COORDINATE w/ M.C.				
4	FUSED EQUIPMENT DISCONNECT U.O.N SEE SPECIFICATION SECTION 16400				
- LMS	COMBINATION MOTOR STARTER DISCONNECT COMBINATION START/STOP BUTTON MOTOR STARTER— SQUARE D No. MBG2 FOR WELDING (EF-6D) & SQUARE D No. MCG3				
•	FOR CARPENTRY (EF-6E) EMERGENCY STOP BUTTON - STI No. 040 OR APPROVED EQUAL WITH STOPPER II WARNING ALARM COVER, INDICATOR				
J or J	JUNCTION BOX, FLUSH MOUNTED IN ALL FINISHED SPACES				
	ELECTRICAL PANEL AS SPECIFIED — SEE SPECIFICATION SECTION 16400				
<u> </u>	GROUNDING ELECTRODE CONDUCTOR INSTALLED IN ACCORDANCE WITH 1999 NEC ARTICLES 250-26 &/or 250-81				
-	REFER TO KEY NOTE No. 2				
SP	CEILING MOUNT SPEAKER BY TECHNOLOGY CONTRACTOR UNDER DIVISION 17				
SP)	RECESSED WALL MOUNT SPEAKER BY TECHNOLOGY CONTRACTOR, FURNISH & INSTALL BACKBOX & RACEWAY TO UTILITY				
EM SP WP	PLATFORM RECESSED WEATHER-PROOF WALL MOUNT SPEAKER BY TECHNOLOGY CONTRACTOR UNDER DIVISION 17; E.C. FURNISH & INSTALL BACKBOX & RACEWAY TO UTILITY PLATFORM				
©C	CEILING MOUNTED SPACE OCCUPANCY SENSOR FOR LIGHTING CONTROL (SEE OC SENSOR LEGEND FOR TYPE DESCRIPTIONS.)				
oc	WALL MOUNTED SPACE OCCUPANCY SENSOR FOR LIGHTING CONTROL (SEE OC SENSOR LEGEND FOR TYPE DESCRIPTIONS.)				
\Box	EMERGENCY LIGHTS AS SPECIFIED — SEE LIGHT FIXTURE SCHEDULE				
CCTV	FUTURE CCTV CAMERA BY OWNER UNDER SEPARATE CONTRACT — PROVIDE f"C FROM BELOW UTILITY PLATFORM TO CABLE MANAGEMENT HOOK ABOVE; CABLE UNDER DIVISION 17				
$\langle j \rangle$	VIDEO STUDIO CAMERA BY OWNER				
$\overline{\otimes}$	EXIT SIGN w/ DIRECTIONAL ARROW(S) & BATTERY BACK-UP - SEE LIGHT FIXTURE SCHEDULE				
EM	EXIT SIGN w/ BATTERY BACK-UP & EM LIGHTS - SEE LIGHT FIXTURE SCHEDULE				
	DRY-TYPE TRANSFORMER AS SPECIFIED - SEE RISER DIAGRAMS, INSTALLATION DETAILS, & SPECIFICATION SECTION 16460				
 3	SLEEVE ROUGH-INS UNDER PAVING/CONCRETE; 3" FOR FUTURE USE, & 2" FOR SITE LIGHTING BY CP&L				
— UE —	UNDERGROUND PRIMARY ELECTRICAL FEEDERS BY ELECTRICAL UTILITY				
— Е —	UNDERGROUND SECONDARY ELECTRICAL FEEDERS BY ELECTRICAL CONTRACTOR				
— CATV —	TO FUTURE GROUND MOUNTED SATELLITE BY OWNER CABLE TV CABLING BY OTHERS BLONDER—TONGUE BIDA SERIES CATV AMPLIFIER INSIDE No. IRN—1924 OR EQUIVALENT NEMA 1 LOCKABLE CAB'T AUSTIN CO. OR EQUAL				
— TELCOM —	TELECOMMUNICATIONS CABLING BY OTHERS				
— го —	FIBER OPTIC CABLE BY TECHNOLOGY CONTRACTOR; WIRE MANAGEMENT BY E.C.				
	RACEWAY AS SPECIFIED CONCEALED ABOVE CEILING				
<u></u>	RACEWAY AS SPECIFIED CONCEALED U.G.				
# >	HOME-RUN TO PANEL w/ CONDUCTORS, NEUTRAL, & GROUND				
	CABLE TRAY (CENTER SPLINE & LADDER TYPES), SEE DETAILS THESE DRAWINGS				
	BOVE CEILING C CONDUIT AS SPECIFIED				
A.H.J. Al	BOVE FINISH FLOOR NL 24 HOUR NIGHT LIGHT UTHORITY HAVING JURISDICTION NTS NOT TO SCALE KHAUST FAN P.B. PUSH BUTTON				
EWC EI	LECTRIC WATER COOLER T.C. TECHNOLOGY CONTRACTOR LECTRIC WATER HEATER TP TAMPER—PROOF				
G.C. GI	ROUND CONDUCTOR U.O.N. UNLESS OTHERWISE NOTED ENERAL CONTRACTOR U.G. UNDERGROUND LUMBING CONTRACTOR WP WEATHERPROOF FINCLOSURE				
M.C. M E.C. El	ECHANICAL CONTRACTOR U.P. UTILITY PLATFORM LECTRICAL CONTRACTOR OR EMPTY CONDUIT				
	PICAL CIRCUIT DESIGNATION: PANEL 'B', BREAKER #2 LEGEND IS FOR REFERENCE ONLY — SYMBOLS/ABBREVIATIONS SHOWN DO NOT NECESSARILY APPLY TO THIS PROJECT				

GENERAL ELECTRICAL NOTES

- 1. DO NOT SCALE THESE DRAWINGS; REFER TO LARGEST SCALE ARCHITECTURAL PLANS.
- 2. REFERENCE SPECIFICATIONS AND ARCHITECTURAL, STRUCTURAL, PLUMBING, & HVAC DRAWINGS PRIOR TO CONSTRUCTION.
- 3. THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND ARE NOT INTENDED TO SHOW MINOR DETAILS AND EXACT LOCATIONS. DESIGN ADJUSTMENTS SHALL BE ANTICIPATED BY THE CONTRACTOR TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- 4. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH CURRENT NEC/NFPA 70. CONTRACTOR SHALL NOTIFY ENGINEER REGARDING ANY CODE DISCREPANCIES SHOWN ON PLAN. ANY PERMIT OR INSPECTION FEES ARE THE RESPONSIBILITY OF THE ELECTRICAL

CONTRACTOR.

- 5. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE METHOD & HAVE NOT BEEN VERIFIED; CONTRACTOR SHALL DETERMINE EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK & IS RESPONSIBLE FOR ANY DAMAGE INCURRED BY FAILURE TO DO SO. EACH PRIME CONTRACTOR PERFORMING EXCAVATIONS OR UNDERGROUND WORK SHALL BE RESPONSIBLE FOR THE LOCATION OF ANY EXISTING UTILITIES IN THE AREA OF THEIR WORK. NOTIFY THE UTILITY LOCATOR SERVICE (1-800-632-4949) AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION IN ORDER THAT EXISTING UTILITIES IN THE AREA MAY BE FLAGGED AND CONTRACTOR SHALL USE ALL CARE NECESSARY WHEN WORKING IN AREAS KNOWN OR SUSPECTED TO CONTAIN UNDERGROUND UTILITIES, INCLUDING HAND DIGGING.
- 6. CONTRACTOR SHALL INSTALL, GROUND AND BOND SYSTEM PER THE CURRENT NEC.
- 7. CONTRACTOR SHALL NOT PUT MORE THAN SIX (6) DUPLEX RECEPTACLES ON ANY GIVEN 1P-20A CIRCUIT UNLESS SHOWN OTHERWISE.
- 8. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ELECTRICAL FIXTURES AND EQUIPMENT WITH OTHER PRIME CONTRACTORS PRIOR TO INSTALLATION TO AVOID CONFLICTS. CONTACT ARCHITECT IF ALTERNATE INSTALLATION METHOD IS REQUIRED.
- 9. PROVIDE LINE SIDE POWER WIRING UP TO TERMINATION POINT OF JUNCTION BOX, DISCONNECT SWITCHES, WIRING THROUGH, STARTER, ETC.
- 10. LOAD—SIDE FINAL CONNECTIONS FOR ALL EQUIPMENT BY OTHERS UNLESS NOTED OTHERWISE. REFERENCE MECHANICAL DRAWINGS FOR EQUIPMENT DETAILS AS REQUIRED
- 11. MINIMUM WIRE SIZE SHALL BE #12 AWG., MINIMUM CONDUIT SIZE SHALL BE 3/4".
- 12. CONTRACTOR SHALL COORDINATE TELEPHONE AND DATA OUTLETS REQUIRED WITH OWNER PRIOR TO GYP. BOARD BEING INSTALLED.
- 13. HALLWAY AND MAINTENANCE RECEPTACLES SHALL NOT BE CIRCUITED WITH OFFICE OR OTHER GENERAL PURPOSE RECEPTACLES.
- 14. ELECTRICAL CONTRACTOR SHALL PROVIDE HACR RATED CIRCUIT BREAKERS ON ALL HVAC
- 15. CONDUCTORS SHALL BE TYPE THHN, THWN, OR THW. BRANCH CIRCUIT CONDUCTOR SHALL NOT BE SMALLER THAN No. 12 AWG., EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. HOME RUNS ORIGINATING MORE THAN 80' AT 120V FROM PANEL LOCATION SHALL BE No. 10 AWG MINIMUM SIZE. WIRES No. 10 AWG AND SMALLER SHALL BE SOLID; WIRES No. 8 AWG AND LARGER SHALL BE STRANDED. PROVISIONS OF SECTION 210-5 COLOR CODE, NEC, SHALL BE STRICTLY COMPLIED WITH AND BE CONSISTENT THROUGHOUT ENTIRE SYSTEM.
- 16. ALL CIRCUITS SHALL BE PROVIDED WITH AN INSULATED EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH CURRENT NEC TABLE 250-122. HASHMARK FOR GROUNDING CONDUCTOR IS NOT INDICATED ON THESE DRAWINGS. RACEWAY SHALL NOT BE USED AS EQUIPMENT GROUND.
- 17. IN ADDITION TO MECHANICAL FASTENING TO CEILING TRACK, SUPPORT LIGHT FIXTURES AT EACH CORNER INDEPENDENTLY OF SUSPENDED CEILING WITH 12 GAUGE WIRE. CONNECT TO STRUCTURAL SYSTEM OF BUILDING.
- 18. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED. ALL EMPTY CONDUIT SHALL HAVE A PULL WIRE.
- 19. ALL CONDUIT FITTINGS SHALL BE COMPRESSION TYPE WITH INSULATED THROATS. ALL EXTERIOR CONDUIT FITTINGS SHALL BE LISTED FOR USE IN WET LOCATIONS PER 2017 NEC
- 20. SERVICE ENTRANCE CONDUCTORS SHALL BE IN CONDUIT (RIGID OR PVC). EXTERIOR CONDUIT EXPOSED ABOVE SLAB SHALL BE RIGID. INTERIOR CONDUIT EXPOSED SHALL BE ELECTRICAL METALLIC TUBING (EMT). EMT SHALL BE COLD—ROLLED STEEL TUBING WITH A COATING ON THE OUTSIDE AND PROTECTED ON THE INSIDE BY A ZINC, ENAMEL, OR EQUIVALENT CORROSION RESISTANT COATING AND CONFORMING TO THE REQUIREMENTS OF ANSI C 80.3—1996 OR LATER EDITION. ALL UNDERGROUND CONDUIT SHALL BE UL LISTED SCHD 40 PVC CONFORMING TO ARTICLES 352 & 300 OF THE NEC. WHERE SCHD 40 PVC IS INSTALLED BELOW GRADE OR UNDER FLOOR SLABS, THE ELBOWS REQUIRED TO TURN THE RACEWAY UP INTO CABINETS, EQUIPMENT, ETC., SHALL BE OF RIGID STEEL AND SHALL CONTINUE AS RIGID STEEL TO THE CABINET, EQUIPMENT, ETC. FEEDER CIRCUITS SHALL BE IN CONDUIT. BRANCH
- 21. ALL JUNCTION OR DEVICE BOXES SHALL HAVE A COVER.

 22. ALL 1P-20A CIRCUITS SHALL BE 2-#12 & 1-#12G IN 3/4"C U.N.O.
- 23. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH ALL VOLUMES OF THE NCSBC, INSPECTORS HAVING JURISDICTION, AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
- 24. EACH PIECE OF ELECTRICAL GEAR, EQUIPMENT, ETC., SHALL BEAR A "UL" LABEL.

CIRCUITS CONCEALED IN STUD WALLS OR ABOVE CEILINGS MAY BE MC CABLE.

- 25. METAL ROOF DECKING SHALL NOT BE PENETRATED TO SUPPORT ELECTRICAL ITEMS.

 26. ALL EMERGENCY AND EXIT LIGHTS SHALL BE CONNECTED TO THE UNINTERRUPTED SIDE OF
- THE LOCAL LIGHTING CIRCUIT.

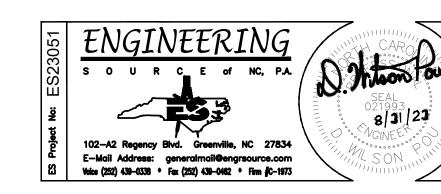
 27. INSTALL ENGRAVED PHENOLIC LABELS ON ALL ELECTRICAL GEAR, DISCONNECTS, ETC. FASTEN
- WITH SCREW FASTENERS.

 28. E.C. SHALL INSTALL HEAVY DUTY NEMA—1 DISCONNECTS AT ALL INTERIOR LOCATIONS INDICATED AND HEAVY DUTY NEMA—3R DISCONNECTS AT ALL EXTERIOR LOCATIONS INDICATED ON THESE DRAWINGS.
- 29. VERIFY WITH OWNER LOCATION/TYPE OF ALL FIXTURES, PANEL BOXES, OUTLET PLACEMENT, ETC. BY HOLDING AN ELECTRICAL WALKTHROUGH ON THE BUILDING SITE ONCE FRAMING IS COMPLETED.
- 30. ELECTRICAL BOXES INSTALLED IN U.L. RATED WALLS SHALL BE LOCATED A MINIMUM OF 2'-0" FROM ANY OTHER ELECTRICAL BOX IN THAT WALL.
- 31. LIGHTING SWITCHES, RECEPTACLES AND/OR DATA OUTLETS SHALL NOT BE MOUNTED BACK TO BACK IN ANY WALL.
- 32. CABLE LOCATED IN PLENUMS SHALL BE PLENUM—RATED. ALL CABLE INSTALLED IN AREAS WITH EXPOSED STRUCTURE SHALL BE IN CONDUIT.
- 33. E.C. SHALL INSTALL COMPLY WITH ANSI A117.1 FOR OUTLET AND CONTROL SWITCH MOUNTING HEIGHTS FOR ADA ACCESSIBILITY.
- 34. E.C. SHALL BE RESPONSIBLE FOR ALL LINE SIDE AND LOAD SIDE WIRING ON ALL EQUIPMENT REQUIRING ELECTRICAL POWER EXCEPT EQUIPMENT PROVIDED BY OTHERS REQUIRING A FUSED DISCONNECT SWITCH. E.C. SHALL BE RESPONSIBLE FOR LINE SIDE WIRING AND PROVIDING FUSED DISCONNECT FOR EQUIPMENT PROVIDED BY OTHERS. LOAD SIDE WIRING AND FUSING FOR EQUIPMENT PROVIDED BY OTHERS SHALL BE PROVIDED BY THE RESPECTIVE CONTRACTOR.
- 35. ALL HOLES CUT IN FLOOR, CEILING AND WALLS SHALL BE CORE-DRILLED OR SAWED.
- 36. WHERE DISTANCE TO FIRST OUTLET ON A 20 AMP CIRCUIT EXCEEDS 100 FEET, MINIMUM SIZE OF CONDUCTOR TO BE #10 AWG TO FIRST OUTLET
- 37. CONDUIT SHALL NOT BE RUN EXPOSED IN FINISHED AREAS UNLESS APPROVED BY ARCHITECT / OWNER. CONDUIT SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALL & FLOOR CONSTRUCTION IN FIRST CLASS WORKMANSHIP MANNER. CONDUIT SHALL BE BENT IN ACCORDANCE WITH NEC MINIMUM RADIUS REQUIREMENTS. WHERE SCHD 40 PVC IS INSTALLED UNDER FLOOR SLABS, THE ELBOWS REQUIRED TO TURN THE RACEWAY UP INTO CABINETS, EQUIPMENT, ETC., WHERE SUBJECT TO DAMAGE, SHALL BE OF RIGID STEEL
- 38. PROVIDE 3" WIDE RED MAGNETIC WARNING TAPE MARKED "BURIED ELECTRIC LINE BELOW" SIX INCHES BELOW FINISH GRADE FOR ALL U.G. CONDUIT.
- 39. ENCASE ALL U.G. CONDUITS NOT UNDER BLDG SLAB IN 3" OF CONCRETE
- 40. ALL JUNCTION OR DEVICE BOXES SHALL HAVE A COVER; PROVIDE COVER PLATES AS SPECIFIED IN SECTION 16140.
- 41. THE TERM "VERIFY" RELATIVE TO THESE DRAWINGS SHALL BE DEFINED AS OBTAINING EQUIPMENT INSTALLATION INSTRUCTIONS FROM EQUIPMENT SUPPLIER OR OBTAINED OWNER'S REPRESENTATIVE'S

SEE ARCHITECTURAL SECTIONS FOR MOUNTING HEIGHTS ON ALL ELECTRICAL DEVICES PRIOR TO ANY ROUGH—INS AND ELECTRICAL WORK.

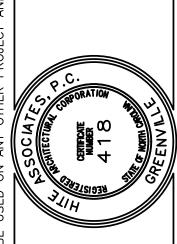
PROVIDE PHENOLIC LABELS TO ALL DISCONNECT SWITCHES, MOTOR RATED SWITCHES, PANELS, WATER HEATERS, HVAC EQUIPMENT.

EC SHALL PROVIDE TAMPER PROOF
RECEPTACLES IN ALL CLASSROOMS AND
AREAS ACCESSABLE TO STUDENTS.
RECEPTACLES MUST MEET REQUIREMENTS
OF 2017 NEC. SEE 406.2 AND 406.12.



1 8/31/23 PRE-BID MTG & ADDENDUM #1

HITE SSOCIATES A SSOCIATE SHANING / TECHNOLOGY



NTER AND GYMNASIUM FOUNTY Office Park

Project No.
22207

Date:
July 2023

Drawing no.

E 001