	ELECTRICAL ABBREVIATIONS			* BELOW IS A GENERAL LEGEND AND SYMBOLS LIST USED ON ALL PROJECTS. SYMBOLS MAY OR MAY NOT BE USED ON THIS PROJECT.				GENERAL NOTES 1. MATERIALS AND EQUIPMENT FURNISHED UNDER THE CONTRACT ARE TO BE NEW UNDERWRITER'S LABORATORIES, INC., LABEL, AS APPROPRIATE. THE COMPLETE
* BELOW IS A GENERAL ABBREVIATIONS LIST USED ON ALL PROJECTS. ABBREVIATIONS MAY OR MAY NOT BE USED ON THIS PROJECT.								
@	AT				SWITCHED CIRCUIT		SIMPLEX RECEPTACLE, 10-120 VOLTS	THE APPROVAL OF THE ENGINEER.
A	AMPERES (AMPS)	MAX	MAXIMUM		BRANCH CIRCUIT SWITCH LEG	⊕	DUPLEX RECEPTACLE, 10-120 VOLTS QUADRAPLEX RECEPTACLE, 10-120 VOLTS	2. ANYTHING DRAWN OR SPECIFIED IS NOT INTENDED TO CONFLICT WITH ANY LOCAL FEDERAL LAW, REGULATION OR ORDINANCE WHICH GOVERNS THE INSTALLATION OF THE PROPERTY
AFCI	ABOVE COUNTER ARC FAULT CIRCUIT INTERRUPTER	MC MCA	MECHANICAL CONTRACTOR OR METAL CLAD CABLE MINIMUM CIRCUIT AMPERES		OCCUPANCY SENSOR CIRCUIT	₩ * 30"	MOUNTING HEIGHT A.F.F.	RELATED WORK. ITEMS ARE NOT TO BE INSTALLED IN CONFLICT WITH ANY COLL CONFLICTS ARE TO BE RESOLVED WITH THE ENGINEER BEFORE INSTALLATION BY ADDITIONAL COSTS.
AFF	ABOVE FINISHED FLOOR	мсв	MAIN CIRCUIT BREAKER	LV	LOW VOLTAGE CIRCUIT	AC	ABOVE COUNTER	3. THE CONTRACTOR IS TO BE SOLELY RESPONSIBLE FOR CONSTRUCTION, MATERIA
AFG	ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION	MCC	MOTOR CONTROL CENTER MAIN DISTRIBUTION PANEL	——————————————————————————————————————	OVERHEAD ELECTRIC UNDERGROUND ELECTRIC	BC D	BELOW COUNTER DRYER	FOR THE CONTRACT UNTIL COMPLETION OF THE PROJECT AND FINAL ACCEPTAN MATERIALS ARE TO BE REPLACED BY THIS CONTRACTOR AT HIS OWN EXPENSE.
AHU	AIR HANDLING UNIT	MFGR		uc	UNDERGROUND COMMUNICATION WIRING	E	EMERGENCY	4. CHANGES NECESSARY DUE TO LACK OF COORDINATION OR BECAUSE OF POOR
ALT	ALTERNATE	MH	MANHOLE OR METAL HALIDE	ст	CABLE TRAY RECESSED ELECTRICAL PANELBOARD	EWC	ELECTRIC WATER COOLER	BY THE ENGINEER OR THE OWNER ARE TO BE MADE BY THE CONTRACTOR AT 15. INSPECTION FEES, BACKCHARGES AND PERMITS AND CERTIFICATES REQUIRED FOR
APPROX ATC	APPROXIMATELY AUTOMATIC TEMPERATURE CONTROL	MIN MISC	MINIMUM MISCELLANEOUS		SURFACE MOUNTED ELECTRICAL PANELBOARD	GFI R	GROUND FAULT INTERRUPTER RANGE	AND INSPECTIONS OF WORK PROVIDED UNDER THIS CONTRACT ARE TO BE PAID
ATS	AUTOMATIC TRANSFER SWITCH	MLO	MAIN LUGS ONLY	- 	EXISTING PANELBOARD TO REMAIN AND BE REUSED	REF	REFRIGERATOR	6. CUTTING AND PATCHING IN THE EXISTING BUILDING NECESSARY FOR THE INSTAL WORK ARE TO BE DONE BY THE CONTRACTOR PROVIDING THE WORK. PATCHIN
AUX AWG	AUXILIARY AMERICAN WIRE GAGE	MOCP MOD	MAXIMUM OVERCURRENT PROTECTION MOTOR OPERATED DAMPER		HOMERUN OR CONTINUATION TO PANELBOARD RECESSED CEILING LINEAR LED FIXTURE	USB WP	USB A AND C WEATHERPROOF	MATERIALS AND FINISHES. WHERE PAINTED SURFACES ARE PATCHED, THE CON- PATCHING TO MATCH THE EXISTING COLOR FINISHES WITH A MINIMUM OF A PRI
BFG	BELOW FINISHED GRADE	MTD	MOUNTED	• •	RECESSED CEILING NORMAL/EMERGENCY LINEAR LED FIXTURE	=	SWITCHED RECEPTACLE, 10-120 VOLTS	COATS OF SHERWIN WILLIAMS OR APPROVED PAINT, COLOR AS SELECTED BY THE
BKR	BREAKER	N/A	NOT APPLICABLE	• • •	RECESSED CEILING WALL WASH LINEAR LED FIXTURE SURFACE MOUNTED LINEAR LED FIXTURE	⊚	FLOOR MOUNTED QUADRAPLEX RECEPTACLE, 10-120 VOLTS CEILING MOUNTED DUPLEX RECEPTACLE, 10-120 VOLTS	7. NO CUTTING IS TO BE DONE WHICH MAY IN ANY WAY AFFECT THE BUILDING ST SECURING THE CONSENT OF THE ENGINEER.
C E	CENTERLINE CONDUIT	NE NEC	NORMAL EMERGENCY NATIONAL ELECTRICAL CODE		SURFACE MOUNTED LINEAR LED FIXTURE SURFACE MOUNTED NORMAL/EMERGENCY LINEAR LED FIXTURE	□	ELECTRIC RANGE RECEPTACLE (CONFIGURATION AS PER EQUIPMENT MANUFACTURER REQUIREMENTS)	8. THE CONTRACTOR IS TO GUARANTEE FOR A PERIOD OF ONE (1) YEAR FROM THE IN WRITING BY THE ENGINEER THAT MATERIAL, EQUIPMENT AND WORKMANSHIP,
СВ	CIRCUIT BREAKER	NIC	NOT IN CONTRACT	† † † • •	SURFACE MOUNTED WALL WASH LINEAR LED FIXTURE	*	EQUIPMENT MANUFACTURER REQUIREMENTS) SPECIAL PURPOSE RECEPTACLE (CONFIGURATION AS PER EQUIPMENT MANUFACTURER REQUIREMENTS)	CONTRACT, ARE FREE FROM DEFECTS. THE CONTRACTOR IS TO REPLACE ANY FOUND DEFECTIVE WITHIN THE GUARANTEE PERIOD AT NO COST TO THE OWNER
CCTV CEF	CLOSED CIRCUIT TV CEILING EXHAUST FAN	NL NTS	NIGHT LIGHT NOT TO SCALE		SURFACE MOUNTED INDUSTRIAL/STRIP LINEAR LED FIXTURE PENDANT MOUNTED LINEAR LED FIXTURE	△ 30A	PER EQUIPMENT MANUFACTURER REQUIREMENTS) SPECIAL PURPOSE RECEPTACLE W/ AMP RATING	9. THE CONTRACTOR IS TO FURNISH ACCESS PANELS AS REQUIRED FOR ACCESS T
CKT	CIRCUIT	OD	OUTSIDE DIAMETER	••	PENDANT MOUNTED NORMAL/EMERGENCY LINEAR LED FIXTURE	€ =	EXISTING RECEPTACLE TO REMAIN AND BE REUSED	JUNCTION BOXES OR SIMILAR ITEMS WHERE NO OTHER MEANS OF ACCESS IS PFINSTALLED IN FIRE RATED CEILINGS OR WALLS ARE TO BE OF SIMILAR RATING.
CLG	CEILING	ø	PHASE	• •	PENDANT MOUNTED LINEAR LED FIXTURE	(\$ / \$ /,	EXISTING RECEPTACLE TO BE DISCONNECTED AND REMOVED	10. FURNISH AND INSTALL NECESSARY STEEL ANGLES, BEAMS, CHANNELS, HANGER FOR EQUIPMENT AND PIPING FURNISHED UNDER THIS CONTRACT REQUIRING SUP
CONC	CONCRETE CONDENSING	Ľ P	PROPERTY LINE POLES		WALL MOUNTED LINEAR LED FIXTURE WALL MOUNTED NORMAL/EMERGENCY LINEAR LED FIXTURE		POWER POLE FOR CONNECTION TO PRE-WIRED FURNITURE JUNCTION BOX	BUILDING STRUCTURE EXCEPT SUPPORT STEEL WHERE OTHERWISE NOTED ON TH
CONN	CONNECTION	РВ	PULLBOX		WALL MOUNTED WALL WASH LINEAR LED FIXTURE	\bigcirc	CONNECTION BY E.C. IN EQUIPMENT BY OTHERS	11. GENERALLY, BLOCKING MATERIALS ARE TO BE METAL; HOWEVER, SHOULD WOOD LOCATION, THE BLOCKING MUST BE MADE FIRE—RESISTANT.
CT	CURRENT TRANSFORMER COPPER	PBX	PRIVATE BRANCH EXCHANGE PLUMBING CONTRACTOR		WALL MOUNTED INDUSTRIAL/STRIP LINEAR LED FIXTURE TRACK MOUNTED LED LIGHTING FIXTURE	'□	DISCONNECT SWITCH TRANSFORMER	12. WIRING IS TO BE CONCEALED IF POSSIBLE. CONCEALED (AND EXPOSED WIRING
CUH	CABINET UNIT HEATER	PL	PILOT LIGHT	\bigcirc	RECESSED CAN LED FIXTURE	D _B	DOOR BELL BASE UNIT	CONDUIT: RIGID METALLIC CONDUIT TO BE INSTALLED WHERE EXPOSED TO PHYS CONDUIT WHERE NOT SUBJECT TO PHYSICAL DAMAGE. SHORT "WHIPS" OF WIRI
DB	DIRECT BURIAL / DECIBEL	PNL	PANELBOARD	Ø	RECESSED CAN NORMAL/EMERGENCY LED FIXTURE	₹	COMBINATION TELEPHONE/COMPUTER NETWORKING OUTLET	METALLIC CLAD (INTERIOR) OR OTHER NON-RIGID PRODUCT (LISTED FOR APPRO CONNECTION TO PUMPS — TO ALLOW FOR VIBRATION). ALL REQUIRED SUPPORT
DC DIA	DIRECT CURRENT DIAMETER	PRV PVC	POWER ROOF VENTILATOR POLYVINYL CHLORIDE	∅	RECESSED CAN EMERGENCY ONLY LED FIXTURE RECESSED CAN COMPACT LED WALL WASH FIXTURE	⊗ ■	FLOOR MOUNTED TELEPHONE/COMPUTER NETWORKING OUTLET CEILING MOUNTED TELEPHONE/COMPUTER NETWORKING OUTLET	TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR. 13. WIRE AND CABLE FOR FEEDERS, BRANCH CIRCUIT, CONTROL, ETC., ARE TO BE
DISC	DISCONNECT	R/W	RIGHT OF WAY	0	SURFACE MOUNTED LED FIXTURE	\triangleleft	COMPUTER NETWORKING OUTLET	CONFORMING TO THE LATEST REQUIREMENTS OF THE HEREIN SPECIFIED CODES.
DN	DOWN	RCPT	RECEPTACLE		SURFACE MOUNTED NORMAL/EMERGENCY LED FIXTURE SURFACE MOUNTED EMERGENCY ONLY LED FIXTURE	™	CABLE TELEVISION/ANTENNA OUTLET SOUND SYSTEM SPEAKER	CABLE (ROMEX) IS NOT PERMITTED. WIRING INSULATION MUST BE A MINIMUM OF FOR WET LOCATIONS AS REQUIRED.
DO DW	DITTO DISHWASHER	RCU REF	REMOTE CONDENSING UNIT REFRIGERATOR	○ →	SURFACE MOUNTED LED WALL WASH FIXTURE	6	CARBON MONOXIDE DETECTOR	14. UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE MINIMUM WIRE SIZE FOR BR
DWG	DRAWING	REQ'D		<u>•</u>	PENDANT MOUNTED LED FIXTURE	S	SMOKE DETECTOR	12 AWG, EXCEPT NO. 10 AWG MINIMUM SIZE IS TO BE USED IN RUNS WHERE DI PANELBOARD TO FIRST OUTLET EXCEEDS 75 FEET DUE TO CONDUIT ROUTING.
EA FC	EACH ELECTRICAL CONTRACTOR	REV RHC	REVISION REHEAT COIL	φ	PENDANT MOUNTED NORMAL/EMERGENCY LED FIXTURE WALL MOUNTED LED BRACKET FIXTURE	(S) _D	DUCTWORK SMOKE DETECTOR SMOKE DETECTOR WITH ELEVATOR RECALL	15. WIRE AND CABLE ARE TO BE INSTALLED IN CONDUIT IN A MANNER NOT TO DAM U.L. APPROVED WIRE PULLING COMPOUNDS ARE TO BE USED TO DECREASE THE
EF	EXHAUST FAN	RS	RIGID STEEL	₩	WALL MOUNTED NORMAL/EMERGENCY LED BRACKET FIXTURE	(T)	THERMAL DETECTOR	WIRES, SUCH AS "WIRE LUBE" BY IDEAL.
EM	EMERGENCY	RTU	ROOF TOP UNIT	Ю п	WALL MOUNTED EMERGENCY ONLY LED BRACKET FIXTURE	F C4	FIRE ALARM SYSTEM AUDIO (VISUAL LINUT	16. WHERE OPEN CABLE IS INSTALLED IN RETURN AIR PLENUM ABOVE CEILINGS, LIS CABLE IS TO BE USED.
EMT ETR	ELECTRICAL METALLIC TUBING EXISTING TO REMAIN	SHT SMR	SHEET SURFACE MOUNTED RACEWAY	U →	RECESSED WALL LED FIXTURE EXISTING LIGHT FIXTURE TO REMAIN AND BE REUSED	₽	FIRE ALARM SYSTEM AUDIO/VISUAL UNIT FIRE ALARM SYSTEM VISUAL ONLY UNIT	17. THE ENTIRE INSTALLATION MUST BE GROUNDED IN COMPLIANCE WITH THE NATIO
EWC	ELECTRIC WATER COOLER		SINGLE POLE DOUBLE THROW	77 OR 1/19	EXISTING LIGHT FIXTURE TO BE DISCONNECTED AND REMOVED		FIRE ALARM SYSTEM DOOR HOLDER	DEVICES, EQUIPMENT, BOXES, ETC. MUST BE CONNECTED TO A SOLID, INSULATE CONDUCTOR.
EX FBO	EXISTING (EXIST) FURNISHED BY OTHERS	SPECS SQ	SPECIFICATIONS SQUARE	4	EMERGENCY LIGHTING LOW VOLTAGE DUAL HEAD BATTERY PACK UNIT	(F) (T)	FIRE ALARM SPRINKLER FLOW SWITCH FIRE ALARM SPRINKLER TAMPER SWITCH	18. PRIOR TO BEGINNING INSTALLATION, COORDINATE FINAL LOCATIONS OF ALL SWIT CONDUIT, ETC. IN ALL AREAS WITH OWNER AND WITH EQUIPMENT TO BE FURNISH
FCU	FAN COIL UNIT	STL	STEEL	A EXII	COMBINATION EXIT SIGN/EMERGENCY LIGHTING LOW VOLTAGE DUAL HEAD BATTERY PACK UNIT EMERGENCY LIGHTING LOW VOLTAGE REMOTE HEAD FIXTURE	ANN	FIRE ALARM SYSTEM ANNUNCIATOR PANEL	OTHERS.
FEC	FIRE EXTINGUISHER CABINET	SW	SWITCH	هـه	EMERGENCY LIGHTING LOW VOLTAGE REMOTE HEAD FIXTURE	FACP ARCP	FIRE ALARM CONTROL PANEL AREA OF RESCUE SYSTEM CONTROL PANEL	19. E.C. SHALL PROPERLY SEAL ALL PENETRATIONS AS REQUIRED PER UL LISTING OF SHALL PROPERLY SEAL ALL PENETRATIONS AND CONDUITS TO EXTERIOR AS REQUIRED.
FLA FLR	FULL LOAD AMPERES FLOOR	SWBD SWGR	SWITCHBOARD SWITCHGEAR	⊗	EXIT SIGN (NUMBER OF FACES & DIRECTIONAL ARROWS AS INDICATED ON FLOOR PLANS)	ARX	AREA OF RESCUE CALL STATION (X = STATION NO.)	MANNER TO MAINTAIN WET AND WEATHERPROOF CONDITION.
FSC	FOOD SERVICE EQUIPMENT CONTRACTOR	TC	TIME CLOCK	₹	EXISTING EXIT SIGN TO REMAIN AND BE REUSED		SECURITY SYSTEM CAMERA	20. WHERE EXISTING FIXTURES, OUTLETS, CONDUITS, ETC. INTERFERE WITH THE NEW THE CONTRACTOR IS TO REMOVE THE EQUIPMENT AS REQUIRED. NEW CONDUITS,
FU GC	FUSED OR FUSES GENERAL CONTRACTOR	TCP TEMP	TEMPERATURE CONTROL PANEL TEMPORARY	\$, \$ ³ , \$ ⁴	WALL SWITCH (3 OR 4 WAY WHERE SHOWN) DIMMER WALL SWITCH	(SJ) [R]	SECURITY SYSTEM JUNCTION BOX SECURITY SYSTEM CARD READER	BOXES, ETC. ARE TO BE INSTALLED FOR THE CIRCUITS AFFECTED IN THE AREA. OR OTHER DEVICES ARE REMOVED AND UNUSED OPENINGS REMAIN, THE CONTRA AND REPAIR AND FINISH THE OPENING TO MATCH THE ADJACENT SURFACES.
GEN	GENERATOR	TP	TWISTED PAIR	\$K	KEY OPERATED WALL SWITCH	D _C	SECURITY SYSTEM DOOR CONTACT	21. THE E.C. IS RESPONSIBLE FOR DEMOLITION WORK AND CORE DRILLING NECESSAR
GFI	GROUND FAULT CIRCUIT INTERRUPTER GROUND	TSP	TWISTED SHIELDED PAIR CABLE TELEVISION	\$LV &PI	LOW VOLTAGE WALL SWITCH WALL SWITCH WITH PILOT LIGHT	Es Mi	SECURITY SYSTEM ELECTRIC DOOR STRIKE SECURITY SYSTEM MAGNETIC DOOR LOCK	CONDUITS IN ELECTRICAL DRAWING SET.
GND HC	HVAC CONTRACTOR	TYP	TYPICAL	\$SP	SPEED CONTROL WALL SWITCH	Ī	SECURITY SYSTEM INTERCOM OUTLET	22. THE E.C. IS TO COORDINATE WITH OWNER IN ORDER TO DETERMINE WHAT ELECT WOULD LIKE TO SALVAGE; THESE ITEMS ARE TO BE TURNED OVER TO OWNER. PROPERLY DISPOSED OF BY THE E.C.
HID	HIGH INTENSITY DISCHARGE	UG	UNDERGROUND	\$WP	WEATHERPROOF WALL SWITCH		SECURITY SYSTEM MOTION SENSOR	23. IN AREAS WHERE ONLY PART OF THE SPACE IS TO BE DEMOLISHED, THE CONTR
HP HPS	HORSEPOWER HIGH PRESSURE SODIUM	UL UNO	UNDERWRITER'S LABORATORIES UNLESS NOTED OTHERWISE	Tc	TIME CLOCK (SHALL BE CAPABLE OF RETAINING PROGRAMMING AND THE TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST 10 HOURS)	r <u>b</u> Rx	SECURITY SYSTEM PUSH BUTTON SECURITY SYSTEM REQUEST TO EXIT	THRU-WIRING TO EXISTING LIGHTS, RECEPTACLES, EQUIPMENT, ETC. TO REMAIN CONTRACTOR IS TO MODIFY EXISTING WIRING AS REQUIRED TO ACCOMMODATE N
HR	HOUR	UPS	UNINTERRUPTIBLE POWER SUPPLY	PE	PHOTO-ELECTRIC CELL PUSH BUTTON WALL SWITCH	Ĥ.	NURSE CALL SYSTEM HALL LIGHT	24. NO AS-BUILT ELECTRICAL DRAWINGS WERE AVAILABLE AS REFERENCE FOR EXIS
HTR	HEATER HORIZONTAL UNIT HEATER	UV V	UNIT VENTILATOR VOLTS	\$	EXISTING WALL SWITCH FIXTURE TO REMAIN AND BE REUSED	⊬□× NG	NURSE CALL ZONE INDICATOR LIGHT $(X = ZONE NO.)$ NURSE CALL SYSTEM PATIENT STATION	OVERCURRENT PROTECTION, WIRE SIZING, CONDUIT ROUTING OR SIZE, ETC. EXIS ELECTRICAL DRAWINGS HAS BEEN DERIVED FROM LIMITED FIELD SURVEYS OF THI CONDITIONS ARE TO BE VERIFIED BY THE E.C. IN THE FIELD.
HVAC		W	WIRE OR WATT	\$	OCCUPANCY SENSOR WALL SWITCH	N _C PC	NURSE CALL SYSTEM EMERGENCY PULL CORD	25. WHERE EXISTING EQUIPMENT IS TO BE REMOVED, CONTRACTOR IS TO REMOVE EX
HZ	FREQUENCY IN CYCLES PER SECOND	W/	WITH	(OS)	CEILING MOUNTED OCCUPANCY SENSOR WALL MOUNTED OCCUPANCY SENSOR	N _C DS N _C SS	NURSE CALL SYSTEM DUTY STATION NURSE CALL SYSTEM STAFF STATION	AND BOXES IF NOT BEING REUSED UNLESS DIRECTED OTHERWISE.
JB	INSIDE DIAMETER JUNCTION BOX	W/D WH	WASHER/DRYER WATER HEATER		OCCUPANCY SENSOR POWER PACK	S _{NC}	PATIENT ROOM SMOKE DETECTOR	26. THE CONTRACTOR IS TO DISCONNECT AND RENDER DEAD WIRING TO EQUIPMENT OTHER CONTRACTORS.
KV	KILOVOLT	WP	WEATHERPROOF	GTD WIFI	GENERATOR TRANSFER DEVICE FOR EMRGENCY LIGHTING WIFI ACCESS POINT (CEILING MOUNTED)			27. THE CONTRACTOR IS TO REUSE EXISTING CONCEALED CONDUITS AND BOXES WHI OR CONTROL NEW BRANCH CIRCUITS IN THE EXISTING BUILDING. IF EXISTING BOXES
KVA KW	KILOVOLT AMPERES KILOWATT		TRANSFORMER EXPLOSION PROOF		7.00200 1 0 (02.2 1			CURRENT N.E.C. "CUBIC INCH CAPACITY" REQUIREMENTS, THE CONTRACTOR IS TO EXISTING BOX AS REQUIRED TO COMPLY WITH THE CURRENT EDITION OF THE N.I.
	KILOWATT HOURS	ΛΓ	EXPENSION PROOF					28. EXISTING WIRING TO REMOVED EQUIPMENT IS NOT TO BE REUSED, CONDUITS MAY
								EQUIPMENT AND RELOCATED EXISTING EQUIPMENT IS TO BE NEW UNLESS NOTED
Ī								29. THE E.C. IS TO VISIT THE SITE IN ORDER TO DETERMINE THE EXTENT OF THE DE RESPONSIBLE FOR REMOVING ANY ELECTRICAL ITEMS AND/OR CONNECTIONS IN
								HAVE NOT BEEN INDICATED BY THESE DRAWINGS AFTER COORDINATING WITH PROBLEMS OF THE ENTIRE ELECTRICAL INSTALLATION IS TO CONFORM TO THE LATEST ADOPTED.
								ELECTRICAL CODE, ALL APPLICABLE NATIONAL, STATE OR LOCAL CODES AND TH LOCAL POWER COMPANY. * THE TERM CONTRACTOR OR ELECTRICAL CONTRACTOR IS TO APPLY TO THE CONT
								PERFORMING THE ELECTRICAL WORK.

- ALS AND EQUIPMENT FURNISHED UNDER THE CONTRACT ARE TO BE NEW AND BEAR THE RITER'S LABORATORIES, INC., LABEL, AS APPROPRIATE. THE COMPLETE INSTALLATION IS SUBJECT TO PROVAL OF THE ENGINEER.
- NG DRAWN OR SPECIFIED IS NOT INTENDED TO CONFLICT WITH ANY LOCAL, MUNICIPAL STATE OR $_{ extsf{L}}$ LAW, REGULATION OR ORDINANCE WHICH GOVERNS THE INSTALLATION OF ANY ELECTRICAL OR WORK. ITEMS ARE NOT TO BE INSTALLED IN CONFLICT WITH ANY CODE OR REGULATION. ANY CTS ARE TO BE RESOLVED WITH THE ENGINEER BEFORE INSTALLATION BY THE CONTRACTOR AT NO NAL COSTS.
- NTRACTOR IS TO BE SOLELY RESPONSIBLE FOR CONSTRUCTION, MATERIAL AND EQUIPMENT FURNISHED CONTRACT UNTIL COMPLETION OF THE PROJECT AND FINAL ACCEPTANCE. DAMAGED WORK OR ALS ARE TO BE REPLACED BY THIS CONTRACTOR AT HIS OWN EXPENSE.
- S NECESSARY DUE TO LACK OF COORDINATION OR BECAUSE OF POOR WORKMANSHIP, AS DETERMINED ENGINEER OR THE OWNER ARE TO BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COSTS.
- TION FEES, BACKCHARGES AND PERMITS AND CERTIFICATES REQUIRED FOR THE INSTALLATION, TESTS SPECTIONS OF WORK PROVIDED UNDER THIS CONTRACT ARE TO BE PAID FOR BY THE CONTRACTOR.
- AND PATCHING IN THE EXISTING BUILDING NECESSARY FOR THE INSTALLATION OF THE ELECTRICAL RE TO BE DONE BY THE CONTRACTOR PROVIDING THE WORK. PATCHING IS TO MATCH THE EXISTING ALS AND FINISHES. WHERE PAINTED SURFACES ARE PATCHED, THE CONTRACTOR IS TO PAINT NG TO MATCH THE EXISTING COLOR FINISHES WITH A MINIMUM OF A PRIME COAT AND TWO (2) FINISH OF SHERWIN WILLIAMS OR APPROVED PAINT, COLOR AS SELECTED BY THE OWNER.
- TING IS TO BE DONE WHICH MAY IN ANY WAY AFFECT THE BUILDING STRUCTURALLY WITHOUT FIRST NG THE CONSENT OF THE ENGINEER.
- NTRACTOR IS TO GUARANTEE FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE NG BY THE ENGINEER THAT MATERIAL, EQUIPMENT AND WORKMANSHIP, FURNISHED UNDER THE CT, ARE FREE FROM DEFECTS. THE CONTRACTOR IS TO REPLACE ANY EQUIPMENT OR MATERIAL DEFECTIVE WITHIN THE GUARANTEE PERIOD AT NO COST TO THE OWNER.
- NTRACTOR IS TO FURNISH ACCESS PANELS AS REQUIRED FOR ACCESS TO CONCEALED PULL BOXES, ON BOXES OR SIMILAR ITEMS WHERE NO OTHER MEANS OF ACCESS IS PROVIDED. ACCESS PANELS ED IN FIRE RATED CEILINGS OR WALLS ARE TO BE OF SIMILAR RATING.
- I AND INSTALL NECESSARY STEEL ANGLES, BEAMS, CHANNELS, HANGER RODS AND OTHER SUPPORTS JIPMENT AND PIPING FURNISHED UNDER THIS CONTRACT REQUIRING SUPPORT OR SUSPENSION FROM S STRUCTURE EXCEPT SUPPORT STEEL WHERE OTHERWISE NOTED ON THE PLANS.
- LLY, BLOCKING MATERIALS ARE TO BE METAL; HOWEVER, SHOULD WOOD BLOCKING BE UTILIZED AT ANY ON, THE BLOCKING MUST BE MADE FIRE-RESISTANT.
- IS TO BE CONCEALED IF POSSIBLE. CONCEALED (AND EXPOSED WIRING IS) TO BE INSTALLED IN RIGID METALLIC CONDUIT TO BE INSTALLED WHERE EXPOSED TO PHYSICAL DAMAGE, AND EMT WHERE NOT SUBJECT TO PHYSICAL DAMAGE. SHORT "WHIPS" OF WIRING BETWEEN DEVICES MAY BE IC CLAD (INTERIOR) OR OTHER NON—RIGID PRODUCT (LISTED FOR APPROPRIATE LOCATION) (I.E. -TION TO PUMPS — TO ALLOW FOR VIBRATION). ALL REQUIRED SUPPORTS, BUSHINGS, LOCKNUTS, ETC. FURNISHED AND INSTALLED BY THE CONTRACTOR.
- ND CABLE FOR FEEDERS, BRANCH CIRCUIT, CONTROL, ETC., ARE TO BE SOFT DRAWN <u>COPPER</u> CTORS, 600 VOLT, HEAT RESISTANT THERMOPLASTIC INSULATED, TYPE "THW", "THWN" OR "THHN" MING TO THE LATEST REQUIREMENTS OF THE HEREIN SPECIFIED CODES. NON-METALLIC SHEATHED (ROMEX) IS NOT PERMITTED. WIRING INSULATION MUST BE A MINIMUM OF 75 DEGREES "C" AND RATED LOCATIONS AS REQUIRED.
- NOTED OTHERWISE ON THE DRAWINGS, THE MINIMUM WIRE SIZE FOR BRANCH CIRCUITS IS TO BE NO. EXCEPT NO. 10 AWG MINIMUM SIZE IS TO BE USED IN RUNS WHERE DISTANCE FROM THE OARD TO FIRST OUTLET EXCEEDS 75 FEET DUE TO CONDUIT ROUTING.
- ND CABLE ARE TO BE INSTALLED IN CONDUIT IN A MANNER NOT TO DAMAGE THE INSULATION. ONLY PROVED WIRE PULLING COMPOUNDS ARE TO BE USED TO DECREASE THE FRICTION WHEN PULLING IN SUCH AS "WIRE LUBE" BY IDEAL.
- OPEN CABLE IS INSTALLED IN RETURN AIR PLENUM ABOVE CEILINGS, LISTED RETURN AIR PLENUM IS TO BE USED.
- TIRE INSTALLATION MUST BE GROUNDED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE. ALL EQUIPMENT, BOXES, ETC. MUST BE CONNECTED TO A SOLID, INSULATED GREEN, COPPER GROUNDING
- TO BEGINNING INSTALLATION, COORDINATE FINAL LOCATIONS OF ALL SWITCHES, JUNCTION BOXES, I, ETC. IN ALL AREAS WITH OWNER AND WITH EQUIPMENT TO BE FURNISHED AND INSTALLED BY
- ALL PROPERLY SEAL ALL PENETRATIONS AS REQUIRED PER UL LISTING OF WALL/FLOOR/CEILING. E.C. PROPERLY SEAL ALL PENETRATIONS AND CONDUITS TO EXTERIOR AS REQUIRED IN A PROFESSIONAL TO MAINTAIN WET AND WEATHERPROOF CONDITION.
- EXISTING FIXTURES. OUTLETS. CONDUITS, ETC. INTERFERE WITH THE NEW WORK IN REMODELED AREAS, NTRACTOR IS TO REMOVE THE EQUIPMENT AS REQUIRED. NEW CONDUITS, CONDUCTORS, JUNCTION ETC. ARE TO BE INSTALLED FOR THE CIRCUITS AFFECTED IN THE AREA. WHERE FIXTURES, SWITCHES ER DEVICES ARE REMOVED AND UNUSED OPENINGS REMAIN, THE CONTRACTOR IS TO REMOVE THE BOX
- IS RESPONSIBLE FOR DEMOLITION WORK AND CORE DRILLING NECESSARY TO INSTALL ALL NEW TS IN ELECTRICAL DRAWING SET.
- IS TO COORDINATE WITH OWNER IN ORDER TO DETERMINE WHAT ELECTRICAL ITEMS THE OWNER LIKE TO SALVAGE; THESE ITEMS ARE TO BE TURNED OVER TO OWNER. ALL OTHER ITEMS ARE TO BE LY DISPOSED OF BY THE E.C.
- AS WHERE ONLY PART OF THE SPACE IS TO BE DEMOLISHED, THE CONTRACTOR IS TO MAINTAIN VIRING TO EXISTING LIGHTS, RECEPTACLES, EQUIPMENT, ETC. TO REMAIN AND BE REUSED. THE CTOR IS TO MODIFY EXISTING WIRING AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
- BUILT ELECTRICAL DRAWINGS WERE AVAILABLE AS REFERENCE FOR EXISTING ELECTRICAL CIRCUITING, RRENT PROTECTION, WIRE SIZING, CONDUIT ROUTING OR SIZE, ETC. EXISTING INFORMATION SHOWN ON CAL DRAWINGS HAS BEEN DERIVED FROM LIMITED FIELD SURVEYS OF THE EXISTING BUILDING — EXACT ONS ARE TO BE VERIFIED BY THE E.C. IN THE FIELD.
- EXISTING EQUIPMENT IS TO BE REMOVED, CONTRACTOR IS TO REMOVE EXISTING RECEPTACLES, WIRING XES IF NOT BEING REUSED UNLESS DIRECTED OTHERWISE.
- NTRACTOR IS TO DISCONNECT AND RENDER DEAD WIRING TO EQUIPMENT THAT IS TO BE REMOVED BY CONTRACTORS.
- NTRACTOR IS TO REUSE EXISTING CONCEALED CONDUITS AND BOXES WHEREVER POSSIBLE TO SUPPLY TROL NEW BRANCH CIRCUITS IN THE EXISTING BUILDING. IF EXISTING BOXES DO NOT COMPLY WITH THE T N.E.C. "CUBIC INCH CAPACITY" REQUIREMENTS, THE CONTRACTOR IS TO MODIFY OR REPLACE BOX AS REQUIRED TO COMPLY WITH THE CURRENT EDITION OF THE N.E.C.
- WIRING TO REMOVED EQUIPMENT IS NOT TO BE REUSED, CONDUITS MAY BE REUSED. WIRING TO NEW INT AND RELOCATED EXISTING EQUIPMENT IS TO BE NEW UNLESS NOTED OTHERWISE.
- . IS TO VISIT THE SITE IN ORDER TO DETERMINE THE EXTENT OF THE DEMOLITION WORK THE E.C. IS SIBLE FOR REMOVING ANY ELECTRICAL ITEMS AND/OR CONNECTIONS IN THE RENOVATED AREAS THAT OT BEEN INDICATED BY THESE DRAWINGS AFTER COORDINATING WITH PROJECT MANAGER AND OWNER.
- TIRE ELECTRICAL INSTALLATION IS TO CONFORM TO THE LATEST ADOPTED EDITION OF THE NATIONAL ICAL CODE, ALL APPLICABLE NATIONAL, STATE OR LOCAL CODES AND THE REQUIREMENTS OF THE POWER COMPANY.
- CONTRACTOR OR ELECTRICAL CONTRACTOR IS TO APPLY TO THE CONTRACTOR OR SUB-CONTRACTOR ING THE ELECTRICAL WORK.



PROFESSIONAL CERTIFICATION Y CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAW OF THE STATE OF MARYLAND, LICENSE NO. 50053, EXPIRATION DATE: 10-13-2026 By Nor (V BRETT NICHOLAS YONISH DATE 02-04-2025

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COLLEGE MD 21502

COMMUNITY
ROAD, CUMBERLAND

ALLEG.

A LIMITED LIABILITY COMPANY

BRETT N. YONISH, P.E. CHRISTOPHER G. ALBRIGHT, P.E.

> 541 MAIN STREET WINDBER, PA 15963 (814) 467-6877

> > **REVISIONS**

MARK	BY	DATE
DATE: 10-17-2		MNG NO.

DRAWN BY: CHECKED BY:

PROJECT NO.