ELECTRICAL ABBREVIATIONS		FOOT/FE
	A(AMP)	GALVAN
		GENERA
ABOVE FINISHED FLOOR	AFF	GROUNE
ABOVE FINISHED GRADE	AFG	GROUNI
	A/C	GROUNE
ALUMINUM	AL	INTERRU
ALUMINUM APPROXIMATE(LY) ARCHITECT(URAL)	APPROX.	
ARCHITECT(URAL)	ARCH('L).	HEATING
ARCHITECT(URAL) AUTHORITY HAVING	AHJ `´	CONDITI
JURISDICTION		INFORM
BELOW	BLW	INTERIO
		ISOLATE
BUILDING	BLDG.	
		JUNCTIC
CARD READER	CR	
CEILING	CLG	KILOAMI
CIRCUIT	CKI	CAPACIT
CONCRETE MASONRY UNIT		KILOVOL
CONDENSATE DRAIN	COND.	
		LIGHTIN
CONDULI	L.	LIGHTIN
COUNTER CURRENT TRANSFORMER		MAIN CI MAIN LU
		MANUF
DEMOLISH(ITION) DEPARTMENT	DENTO.	MAXIMU
	DET 1.	MAXIMU
DISCONNECT		PROTECT
DETAIL DISCONNECT DIVISION		MECHAN
DIVISION DRAWING(S)	-DWG(S)	MINIMU
210 (WING(3)		MINIMU
EACH	EA.	MISCELL
ELECTRICAL CONTRACTOR	EC	MOUNTI
ELECTRIC(AL)	ELEC.	LINE OF
ELECTRIC WATER COOLER	EWC	
ELEVATOR	ELEV.	NATION
EMERGENCY	EM,EMER	NEMA 1,
		RATING
EQUIPMENT	EQPT.	NIGHT LI
ETCETERA	ETC.	NOMINA
EXHAUST FAN	EF	NOT APF
EXISTING	EXIST.,(E)	NOT IN C
EXISTING RELOCATED	ER	NOT TO
EXISTING TO REMAIN	ETR	NUMBER
FIRE ALARM	F/A	PANEL
FIRE ALARM CONTROL PANEL	FACP	PARTIAL
FIRE ALARM ANNUNCIATOR	FAAP	PHASE
PANEL		PHOTOC
FIRE / SMOKE DAMPER	F/S	

FOOT/FEET	FT.
GALVANIZED	GALV.
GENERAL CONTRACTOR	GC
GROUND	
GROUNDING ELEC. CONDCTOR	GEC
GROUND FAULT CIRCUIT	
INTERRUPTER	
HEATING, VENTILATION & AIR	_HVAC
CONDITIONING	
INFORMATION	INFO
	INFO INT.
ISOLATED GROUND	_IG
JUNCTION BOX	JB,(J-BOX)
Jonenon Box	
KILOAMPERE INTERRUPTING	kAIC
САРАСІТҮ —	
KILOVOLT-AMPS	kVA
	_
LIGHTING CONTACTOR	LC
LIGHTING CONTROL PANEL	LCP
MAIN CIRCUIT BREAKER	MCB
MAIN LUG ONLY	
MANUFACTURE(R)	MFR.
MAXIMUM	MAX
MAXIMUM OVERCURRENT	МОСР
PROTECTION	
MECHANICAL	MECH.
MINIMUM	MIN.
MINIMUM CURRENT AMPACITY	MCA
MISCELLANEOUS	MISC.
MOUNTING HEIGHT TO CENTER	 +(#)''
LINE OF DEVICE AFF OR AFG	
NATIONAL ELECTRICAL CODE	NEC
NEMA 1, NEMA 3R, NEMA	
RATING (AS NOTED)	
NIGHT LÌGHT	NL
NOMINAL	NOM.
NOT APPLICABLE	
NOT IN CONTRACT	
NOT TO SCALE	
NUMBER	NO.,#
PANEL	PNL
PARTIAL	PART.
PHASE	 PH.,Ø
PHOTOCELL	PC

POLE	Р
POLE POLYVINYL CHLORIDE	PVC
POWER POLE	PP
	_
QUANTITY	_QTY
RECEPTACLE	RECEP
REFER TO / REFERENCE	REF.
REQUIRE(D) RIGID GALVANIZED STEEL	_RGS
ROOM	_RM
SERVICE DISTRIBUTION	SDE
ENCLOSURE	
SPECIFICATION(S)	SPEC.(
SQUARE	SQ.
STRUCTURED MEDIA CENTER	SMC
SURGE PROTECTIVE DEVICE	SPD
SWITCH	SW.
	-
TELEPHONE / DATA COMBO	_TELED
TELEPHONE	TEL.
TELEPHONE MOUNTING BOARD	ТМВ
TELEVISION	TV
TEXAS	_TX
THROUGH	THRU
TIMECLOCK	TC
TYPICAL	TYP
UNDERGROUND	UG
	UL
INC.	_01
UNINTERRUPTIBLE POWER	UPS
SUPPLY	
UNLESS NOTED OTHERWISE	UNO
	UTIL.
	_
VOLT-AMPS	_VA
VOLTAGE / VOLTS	V
	_WP
WEATHER RESISTANT	WR
WITH	_W/
	_W/0

NOTE: NOT ALL ABBREVIATIONS ON THIS LIST ARE APPLICABLE TO THIS PROJECT.



100% CONSTRUCTION DOCUMENTS 09/16/2019



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	_P _PVC _PP
	_QTY
	_RECEPT. _REF. _REQ.('D) _RGS _RM
	SDE
	_SPEC.(S) _SQ. _SF _SMC _SPD _SW.
)	_TELEDATA _TEL. _TMB _TV _TX _THRU _TC _XFMR _TYP
	_UG _UL
	UPS
	UNO UTIL.
	_VA _V
	WP

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CONDUIT RUN EXPOSED OR CONCEALED		PANELBOARD OR LOAD CENTER - SURFACE MOUNT, RECESSED MOUNT
	CONDUIT RUN BELOW FLOOR OR GRADE	0	METER - PLAN VIEW, ONE-LINE DIAGRAM
	CONDUIT STUB-UP - CAP & MARK	O _{PP}	POWER POLE
— ₹	CONDUIT OR CIRCUIT BREAK/CONTINUATION (DIAGRAMMATIC ONLY)		
-lı-	GROUND		

	2012 IBC						
	2017 NEC						
	2015 IECC						
	2012 TAS						
		20	15 IFC				
	LOCAL CODES AND ORDINANCES						
VOLTAGE DROP TABLE (20A CIRCUITS ONLY)							
		208V, 1Ø	120V, 1Ø				
AWG		0 - 90 FT.	0 - 50 FT.				
AWG		91 - 150 FT.	51 - 90 FT.				

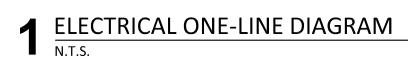
APPLICABLE CODES

	208V, 1Ø	120V, 1Ø			
#12 AWG	0 - 90 FT.	0 - 50 FT.			
#10 AWG	91 - 150 FT.	51 - 90 FT.			
#8 AWG	151 - 250 FT.	91 - 140 FT.			
#6 AWG	251 - 390 FT.	141 - 225 FT.			
#4 AWG	391 - 630 FT.	226 - 300 FT.			
(VERIFY MINIMUM VOLTAGE DROP AND CONDUI SIZE, PER N.E.C.)					

- FACILITY.

- NEW OVERHEAD —— SERVICE BY ONCOR

#4 GND.



						-	
_		NO.	DATE	DESCRIPTION	ΒY		
						0 1"	
	05 East Huntland Drive uite 200						
Group Suite 200 Austin, Texas 78752 p: 512.453.0767 f: 512.453.1734					The bar above measures one inch on the original		
TBPE FIRM REGIS	STRATION NO.: 1452 STRATION NO.: F-1416					drawing. Adjust scales accordingly.	
TBPLS FIRM REGI	ISTRATION NO.: 10065600						

AL GENERAL NOTES

1. EXISTENCE AND LOCATION OF DEVICES, FIXTURES, EQUIPMENT, CIRCUITING, ETC. THAT ARE SHOWN TO BE EXISTING WAS TAKEN FROM EXISTING DRAWINGS AND/OR VISUAL INSPECTION AND SHOULD BE VERIFIED IN FIELD PRIOR TO ANY PRICING OR WORK.

2. ELECTRICAL CONTRACTOR SHALL VISIT SITE AND SHALL BECOME FAMILIAR WITH SITE CONDITIONS AND VERIFY DIMENSIONS AND WORK TO BE INSTALLED PRIOR TO SUBMITTING A BID: BY SUBMITTING A BID, CONTRACTOR CERTIFIES FAMILIARITY WITH EXISTING JOBSITE CONDITIONS PRIOR TO COMMENCEMENT OF WORK; FAILURE TO DO SO WILL NOT BE CAUSE FOR EXTRA WORK COMPENSATION.

3. ALL MATERIAL SHALL BE NEW AND SHALL BE LISTED OR LABELED BY U.L. OR OTHER RECOGNIZED TESTING

4. FURNISH ALL MATERIAL, LABOR, EQUIPMENT AND PERMITS TO PROVIDE A COMPLETE, OPERATIONAL ELECTRICAL SYSTEM CONSISTENT WITH THE INTENT OF THE DRAWINGS. WHERE THE WORD "PROVIDE" IS USED, IT SHALL MEAN, "FURNISH AND INSTALL COMPLETE AND READY FOR USE".

5. INSTALLATIONS FOUND NOT COMPLYING WITH SPECIFIED WORKMANSHIP PRACTICES SHALL BE REVISED TO COMPLY AT NO ADDITIONAL COST TO THE OWNER.

6. ELECTRICAL CONTRACTOR SHALL PERFORM WORK IN A SAFE MANNER AND MAINTAIN ADEQUATE PROTECTION OF WORK, THE OWNER'S PROPERTY AND ALL PERSONS ON SITE FROM INJURY, DAMAGE OR LOSS.

7. FIELD-COORDINATE LOCATION OF PANELS, CONDUITS AND DEVICES WITH STRUCTURAL MEMBERS AND EQUIPMENT FROM OTHER TRADES. CAREFULLY COORDINATE INSTALLATION SCHEDULES WITH OTHER TRADES AND GENERAL CONTRACTOR. VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN. COORDINATE LOCATION AND INSTALLATION OF OWNER-FURNISHED ITEMS AFFECTING THIS TRADE.

8. ALL WIRING SHALL BE IN CONDUIT. ALL WIRING SHALL BE #12 AWG MINIMUM COPPER CONDUCTORS. ALUMINUM CONDUCTORS WILL NOT BE ALLOWED.

9. FEEDER CONDUCTORS, BRANCH WIRING, PANEL BUSS AND GROUND BUSS SHALL BE COPPER, UNLESS NOTED OTHERWISE.

10. ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE GENERAL ELECTRIC, SQUARE D OR SIEMENS.

11. ELECTRICAL CONTRACTOR SHALL ASSEMBLE AND PROVIDE TO THE OWNER AS PART OF CLOSE-OUT SUBMISSION REQUIREMENTS, ORGANIZED BINDER WITH TECHNICAL DATA, CUT SHEETS, MAINTENANCE REQUIREMENTS, ADJUSTMENT PROCEDURES, TEST REPORTS, APPROVALS, WARRANTIES, PHONE NUMBERS OF SERVICE PERSONNEL, SOURCES OF REPLACEMENT PARTS AND OTHER PERTINENT INFORMATION.

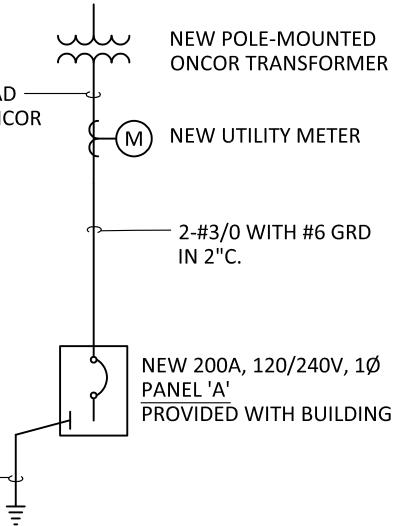
12. BEFORE BEGINNING DEMOLITION OF ANY NATURE WHATSOEVER, CONTRACTOR SHALL LOCATE ALL SERVICES AND UTILITIES OCCURRING WITHIN THE BOUNDS OF THE PROJECT. THE CONTRACTOR SHALL THEN PROCEED WITH CAUTION IN HIS WORK SO THAT NO UTILITY OR LINE SERVING AREAS THAT ARE TO REMAIN BE DAMAGED WITH A RESULTANT LOSS OF SERVICE. VERIFY THE SOURCE AND SERVICE OF EACH AND EVERY LINE ENCOUNTERED AND RECORD SERVICE, SIZE AND LOCATION ON RECORD DRAWINGS.

13. COORDINATE EACH AND EVERY INTERRUPTION OF SERVICES AND UTILITIES WITH THE OWNER AND UTILITY COMPANIES TO ENSURE MINIMUM SHUT-DOWN TIMES ARE ACCEPTABLE.

14. NO SINGLE CONDUIT SHALL CONTAIN MORE THAN 6 CURRENT CARRYING CONDUCTORS, UNLESS NOTED OTHERWISE AND PROPERLY DERATED.

15. REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND OTHER DRAWINGS PRIOR TO BID. 16. INSTALL ALL MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ANY DEVIATIONS SHALL BE BROUGHT TO THE ARCHITECT/ENGINEER'S ATTENTION PRIOR TO INSTALLATION.

17. ELECTRICAL CONTRACTOR TO COORDINATE AND SCHEDULE NEW ELECTRICAL SERVICE WITH ONCOR.



PLOTTED: 09/13/2019 JOB NO: 704-06B

WILLIAMSON COUNTY SHERIFF'S OFFICE GUN RANGE AMMUNITION BUILDING 8160 CHANDLER ROAD HUTTO, TEXAS 78634

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		NO.	DATE	DESCRIPTION	ΒY		
Group 305 East Huntland Drive Suite 200 Austin, Texas 78752 p: 512.453.0767 f: 512.453.1734					0 1"		
					The bar above measures one inch		
					on the original drawing. Adjust		
🛋 🛛 TBPE FIRM R	EGISTRATION NO.: 1452 EGISTRATION NO.: F-1416 REGISTRATION NO.: 10065600					scales accordingly.	