

ELECTRICAL SYMBOL SCHEDULE

SYMBOLS	POWER SYMBOLS	NOTES
	MOTOR OUTLET	
	FUSED DISCONNECT SWITCH SWITCH XX/XX/XX = AMP SWITCH/POLES/AMP FUSE	
	HEAVY DUTY NON-FUSED DISCONNECT SWITCH SWITCH XX/XX = AMP SWITCH/POLES	
	MOTOR STARTER	
	COMBINATION MOTOR STARTER	
	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD	
	VARIABLE FREQUENCY DRIVE	
	AUTOMATIC TRANSFER SWITCH	
	TRANSFORMER	
	TRANSFORMER	
	TRANSFORMER	
	GENERATOR	
	STATIONARY CIRCUIT BREAKER; RATING AS SHOWN ON PLANS	
	SWITCH AND FUSE; RATING AS SHOWN ON PLANS	
	NORMALLY OPEN CONTACT	
	NORMALLY CLOSED CONTACT	
	GROUND ROD IN GROUND WELL	
	JUNCTION BOX	
	PUSH BUTTON STATION	
	PHOTOCELL	
	CONTROL PANEL FURNISHED WITH EQUIPMENT	
	LIGHTING CONTACTOR	
	208V/120V SURFACE MOUNTED PANELBOARD OR TERMINAL CABINET	
	208V/120V FLUSH MOUNTED PANELBOARD OR TERMINAL CABINET	
	480V/277V SURFACE MOUNTED PANELBOARD OR TERMINAL CABINET	
	480V/277V FLUSH MOUNTED PANELBOARD OR TERMINAL CABINET	
	EMERGENCY TRANSFER RELAY DEVICE TYPE PHILLIPS MTD20-277 OR BODINE BLCD-20B.	
	AUTO SINK TOILET OUTLET	
	WALL MOUNTED AUTO SINK TOILET OUTLET	
	METER CAN	

SYMBOLS	LIGHTING SYMBOLS	NOTES
	LED, SURFACE OR RECESSED LIGHT FIXTURE AND OUTLET BOX, NORMAL	
	LED, SURFACE OR RECESSED LIGHT FIXTURE AND OUTLET BOX, CRITICAL	
	LED, SURFACE OR RECESSED LIGHT FIXTURE AND OUTLET BOX, LIFE SAFETY	
	WALL MOUNTED LIGHT FIXTURE AND OUTLET BOX	
	PENDANT LIGHT FIXTURES	
	EMERGENCY BATTERY UNIT	
	EXIT SIGN, SINGLE FACE, CEILING OR WALL MOUNTED; ARROWS AND FACES AS SHOWN ON PLANS	
	EXIT SIGN, DOUBLE FACE, CEILING OR WALL MOUNTED; ARROWS AND FACES AS SHOWN ON PLANS	
	POLE LIGHT	

SYMBOLS	LOW VOLTAGE SYMBOLS	MOUNTING HEIGHT
	VOICE / DATA OUTLET	18" AFF UNO
	WIRELESS ACCESS POINT	ABOVE CEILING
	FLOOR MOUNTED VOICE / DATA OUTLET	FLOOR
	WALL TELEPHONE OUTLET	48" AFF UNO
	WALL MOUNTED TELEVISION OUTLET	84" AFF UNO
	ACCESS CONTROL CARD READER	VOJ
	AUDIO/VISUAL OUTLET, COORDINATE REQUIREMENTS WITH A/V VENDOR.	WALL OR FLOOR

SYMBOLS	WIRING DEVICE SYMBOLS	NOTES
	120V, SINGLE RECEPTACLE OUTLET	1
	120V, SINGLE RECEPTACLE OUTLET; SPECIAL MOUNTING HEIGHT; MOUNT AS NOTED ON PLANS OR SEE SPECIFICATIONS	1
	120V, DUPLEX RECEPTACLE OUTLET	1
	120V, DUPLEX RECEPTACLE OUTLET; SPECIAL MOUNTING HEIGHT; MOUNT AS NOTED ON PLANS OR SEE SPECIFICATIONS	1
	120V, QUADPLEX RECEPTACLE OUTLET	1
	120V, QUADPLEX RECEPTACLE OUTLET; SPECIAL MOUNTING HEIGHT; MOUNT AS NOTED ON PLANS OR SEE SPECIFICATIONS	1
	120V, 5MA GFCI TYPE DUPLEX RECEPTACLE OUTLET	1
	120V, 5MA GFCI TYPE DUPLEX RECEPTACLE OUTLET; SPECIAL MTG HEIGHT; MOUNT AS NOTED ON PLANS OR SEE SPECIFICATIONS	1
	120V, 5MA GFCI TYPE QUADPLEX RECEPTACLE OUTLET	1
	120V, 5MA GFCI TYPE QUADPLEX RECEPTACLE OUTLET; SPECIAL MTG HEIGHT; MOUNT AS NOTED ON PLANS OR SEE SPECIFICATIONS	1
	SINGLE SPECIAL PURPOSE RECEPTACLE, VOLTAGE AND NEMA RECEPTACLE TYPE AS NOTED	1
	SINGLE SPECIAL PURPOSE RECEPTACLE; VOLTAGE AND NEMA RECEPT. TYPE AS NOTED, SPECIAL MOUNTING HEIGHT; MOUNT AS NOTED ON PLANS OR SEE SPECIFICATIONS	1
	DUPLEX SPECIAL PURPOSE RECEPTACLE, VOLTAGE AND NEMA RECEPTACLE TYPE AS NOTED	1
	DUPLEX SPECIAL PURPOSE RECEPTACLE; VOLTAGE AND NEMA RECEPT. TYPE AS NOTED, SPECIAL MOUNTING HEIGHT; MOUNT AS NOTED ON PLANS OR SEE SPECIFICATIONS	1
	120V, DUPLEX RECEPTACLE OUTLET, FLOOR MOUNTED	1
	120V, QUADPLEX RECEPTACLE OUTLET, FLOOR MOUNTED	1
	120V, SPECIAL PURPOSE RECEPTACLE, FLOOR MOUNTED	1
	POWER POLE CONNECTION TO MODULAR FURNITURE	1
	RECEPTACLE STRIP - TYPE, OUTLETS, SPACING AND FINISH AS NOTED	1
	POWER CONNECTION; PROVIDE RECEPTACLE OR HARD WIRED CONN.	1
	SINGLE POLE SWITCH	1
	TWO SINGLE POLE SWITCHES UNDER COMMON FACEPLATE PROVIDING DUAL LEVEL SWITCHING OF FIXTURES	1
	DOUBLE POLE SWITCH	2
	3-WAY POLE SWITCH	2
	4-WAY POLE SWITCH	2
	SINGLE POLE SWITCH WITH PILOT LIGHT	2
	SINGLE POLE KEY OPERATED SWITCH	2
	DIMMER SWITCH	2
	DIMMER SWITCH WITH 3-WAY SWITCHING	2
	VARIABLE INTENSITY CONTROL FOR SURGICAL LIGHT	2
	MANUAL MOTOR STARTER SWITCH W/THERMAL OVERLOAD PROT.	2
	TIMER SWITCH	2
	LOW VOLTAGE MOMENTARY CONTACT SWITCH (TOGGLE STYLE)	2
	WALL MOUNTED OCCUPANCY SENSOR W/OVERRIDE DIMMER SWITCH	2
	WALL MOUNTED OCCUPANCY SENSOR W/OVERRIDE SWITCH	2
	CEILING MOUNTED OCCUPANCY SENSOR	2
	WALL MOUNTED OCCUPANCY SENSOR	2
	PUSH PLATE (FOR AUTOMATIC DOOR)	
	PUSH BUTTON (FOR AUTOMATIC DOOR)	
	PHOTOCELL SWITCH	2

WIRING DEVICE KEYED NOTES	
1	THE FOLLOWING NOTATIONS MAY BE USED WITH ANY RECEPTACLE TYPE TO FURTHER DEFINE THE SYMBOL: C = CRITICAL BRANCH RECEPTACLE, PROVIDE RED DEVICE AND RED COVER PLATE IF PLASTIC; SEE SPECIFICATIONS. IG = ISOLATED GROUND RECEPTACLE. L = LOCKING LS = LIFE SAFETY BRANCH RECEPTACLE, PROVIDE RED DEVICE AND RED COVER PLATE IF PLASTIC; SEE SPECIFICATIONS. M = FOR MONITORING EQUIPMENT, COORDINATE MOUNTING HEIGHT WITH EQUIPMENT. O = EQUIPMENT SYSTEM RECEPTACLE, PROVIDE SPECIAL LABEL, SEE SPECIFICATIONS. T = TAMPER RESISTANT RECEPTACLE. TV = FOR TELEVISION, COORDINATE MOUNTING HEIGHT WITH TELEVISION. WP = WEATHERPROOF, CORD CAN BE PLUGGED IN WITH COVER CLOSED.
2	THE FOLLOWING NOTATIONS MAY BE USED WITH MOST SWITCH TYPES TO FURTHER DEFINE THE SYMBOL: \$ = A LINE THROUGH THE SWITCH SYMBOL MEANS THE DEVICE SHALL BE RED WITH A RED COVER PLATE IF PLASTIC PLATES ARE USED. WP = WEATHERPROOF DEVICE AND COVER.

SYMBOLS	DESIGNATION SYMBOLS	NOTES
	COLUMN LINE	
	FEEDER DESIGNATION TAG	
	KEY NOTE TAG	
	DETAIL REFERENCE BUBBLE	
	DETAIL NUMBER	
	SHEET BEARING DETAIL	
	MOTOR DESIGNATION TAG	
	FIXTURE DESIGNATION UPPER CASE LETTER INDICATES LUMINAIRE TYPE. LOWER CASE LETTER INDICATES SWITCH LEG NUMBER INDICATES CIRCUIT NUMBER (WHERE SHOWN).	
	NUMBER INDICATES CIRCUIT NUMBER (WHERE SHOWN)	

SYMBOLS	DEMOLITION SYMBOL	NOTES
	HATCHING INDICATES ELECTRICAL SYSTEMS DEVICES TO BE DEMOLISHED	

SYMBOLS	CONDUIT SYMBOLS	NOTES
	CONDUIT INSTALLED CONCEALED ABOVE CEILINGS OR IN WALLS IN FINISHED AREAS OR EXPOSED IN UNFINISHED AREAS	
	CONDUIT INSTALLED BELOW FINISHED FLOOR OR BELOW GRADE	
	INDICATES CONDUIT TURNING UP	
	INDICATES CONDUIT TURNING DOWN	
	CONDUIT STUBBED OUT WITH BUSHING	
	CONDUIT STUBBED OUT AND CAPPED	
	FLEXIBLE CONDUIT WITH SINGLE POINT OF CONNECTION AT ELECTRICAL EQUIPMENT	
	GROUNDING CONDUCTOR	
	CONDUIT HOMERUN; ROUTE TO PANELBOARD, CABINET, OR TERMINAL BOARD INDICATED, AND TERMINATE CONDUCTORS TO CIRCUIT OVER CURRENT PROTECTIVE DEVICE	

NOTES:
1. ITEMS SHOWN ON SCHEDULE ARE NOT NECESSARILY UTILIZED ON THIS PROJECT.
2. DEVICE SYMBOLS ALONG WITH DRAWINGS, NOTES, AND SPECIFICATIONS ARE INTENDED TO PROVIDE A COMPLETE SYSTEM. CONTRACTOR SHALL COORDINATE WITH ALL TRADES AS REQUIRED TO PROVIDE A COMPLETE SYSTEM.

	ABBREVIATIONS	NOTES
A, AMP	AMPERE	
AC	ALTERNATING CURRENT	
ACT	ABOVE COUNTER TOP	
AIC	AMPERE INTERRUPTING CAPACITY	
AFF	ABOVE FINISHED FLOOR	
AFG	ABOVE FINISHED GRADE	
ATS	AUTOMATIC TRANSFER SWITCH	
AF	FRAME RATING IN AMPERES	
AS	SWITCH RATING IN AMPERES	
AT	TRIP RATING IN AMPERES	
AWG	AMERICAN WIRE GAUGE	
AV	AUDIO VISUAL	
C	CONDUIT	
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED	
CL	CENTERLINE	
CKT	CIRCUIT	
CLG	CEILING	
CR	CRITICAL BRANCH	
DC	DIRECT CURRENT	
DPDT	DOUBLE POLE, DOUBLE THROW	
DPST	DOUBLE POLE SINGLE THROW	
DIST	DISTRIBUTION	
EO	EQUIPMENT BRANCH	
(ETR)	EXISTING TO REMAIN	
(ER)	REMOVE EXISTING.	
(EL)	RELOCATE EXISTING.	
EC	EMPTY CONDUIT	
ELEC	ELECTRICAL	
ELEV	ELEVATOR	
E, EMER	EMERGENCY	
EMT	ELECTRO METALLIC TUBING	
EWC	ELECTRIC WATER COOLER	
EWB	ELECTRIC WATER HEATER	
FA	FIRE ALARM	
FAAP	FIRE ALARM ANNUNCIATOR PANEL	
FACP	FIRE ALARM CONTROL PANEL	
FATC	FIRE ALARM TERMINAL CABINET	
FARA	FIRE ALARM REMOTE ANNUNCIATOR	
FCIP	FIRE ALARM CONTROL AND INDICATING PANEL	
FPRP	FIRE ALARM PUMP STATUS PANEL	
VCS	FIRE ALARM VOICE COMMUNICATION PANEL	
FVNR	FULL-VOLTAGE, NON-REVERSING	
FVR	FULL-VOLTAGE, REVERSING	
GFCI	GROUND FAULT CIRCUIT INTERRUPTING	
G, GND	GROUND	
GEN	GENERATOR	
IG	ISOLATED GROUND.	
HID	HIGH INTENSITY DISCHARGE	
HOA	HAND - OFF - AUTO	
HP	HORSEPOWER	
HPF	HIGH POWER FACTOR	
LS	LIFE SAFETY BRANCH	
LRC	LIGHTING RELAY CABINET	
MECH	MECHANICAL	
MCB	MAIN CIRCUIT BREAKER	
MLO	MAIN LUGS ONLY	
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION	
NTS	NOT TO SCALE	
ø, PH	PHASE	
PNL	PANEL	
PVC	POLYVINYL CHLORIDE CONDUIT	
PTS	PNEUMATIC TUBE STATION	
PWR	POWER	
RSC	RIGID STEEL CONDUIT	
SYS	SYSTEM	
TP	TAMPER RESISTANT	
TB, TTB	TERMINAL BACKBOARD	
TC	TERMINAL CABINET	
TEL	TELEPHONE	
TP	TAMPER PROOF	
TV	TELEVISION	
UNO	UNLESS OTHERWISE NOTED	
V	VOLT	
VA	VOLT AMPERES	
W	WATT	
WP	WEATHERPROOF	
XFMR	TRANSFORMER	
XP	EXPLOSION PROOF	

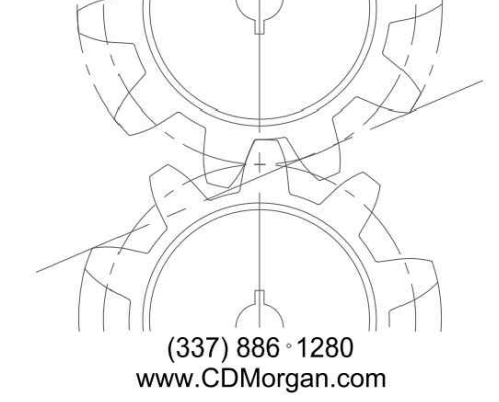


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**Office of the State
Public Defender
District 8
Office Building**

111 West Main Street
Winnfield, LA 71483

CDMorgan

& ASSOCIATES, INC.
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(337) 886-1280
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Construction Documents

No.	Description	Date

KEY PLAN

SYMBOL SCHEDULE

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