

PLOTTED BY: WROBINS

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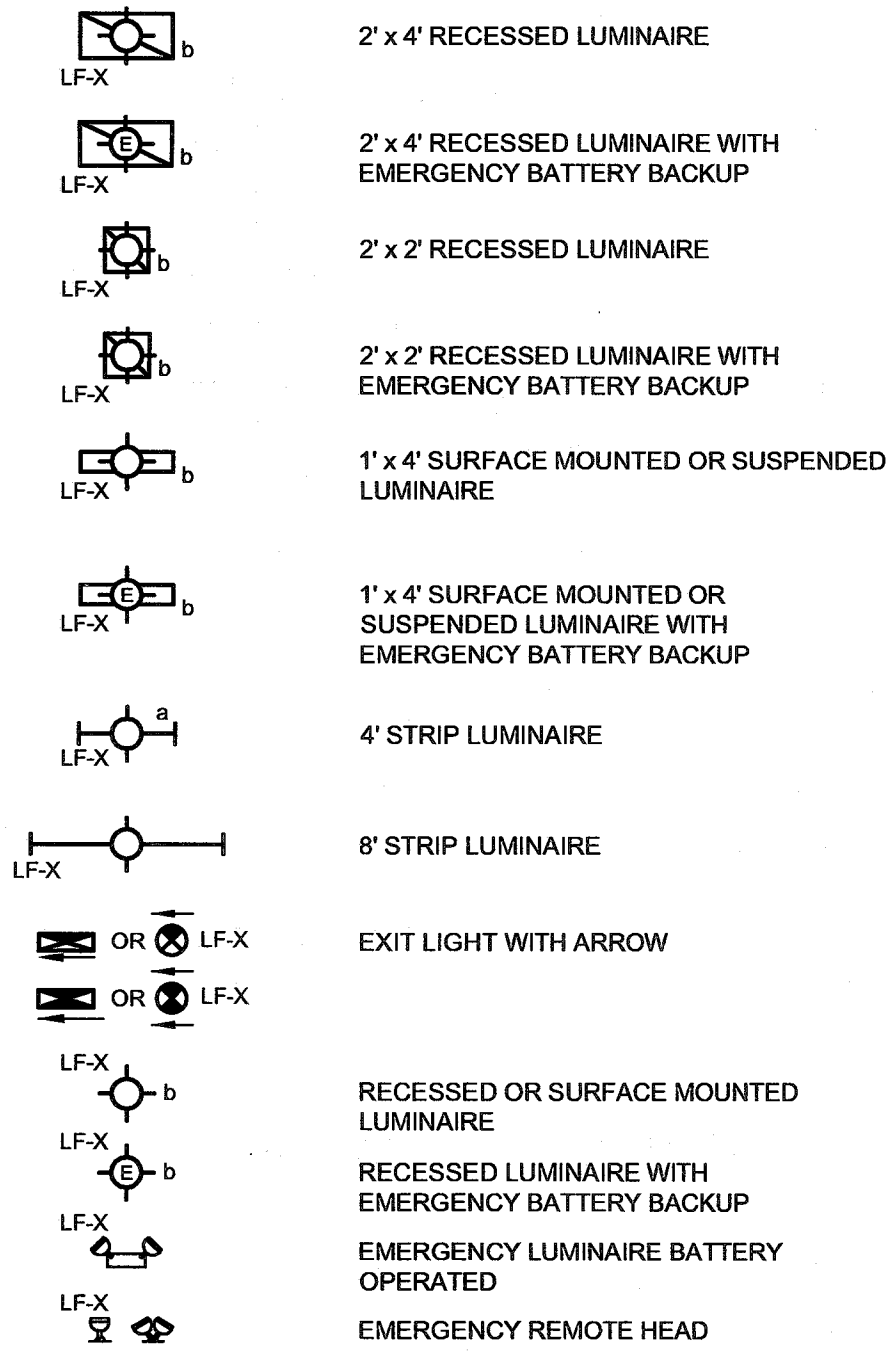
FILE NAME: G:\625-FCRWD-SF\Working Drawings\AutoCAD\625-E-001.dwg

## INTERIOR LIGHTING

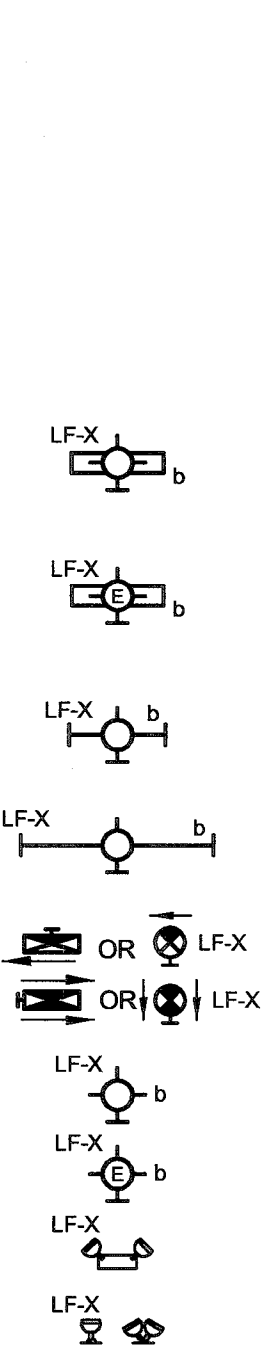
SUBSCRIPTS INDICATE THE FOLLOWING:

LF-X = INDICATES LUMINAIRE TYPE  
E = INDICATES EMERGENCY BATTERY BACKUP  
a = DENOTES SINGLE SWITCH DESIGNATION  
a/b = DENOTES DUAL SWITCH DESIGNATION

### CEILING MTD



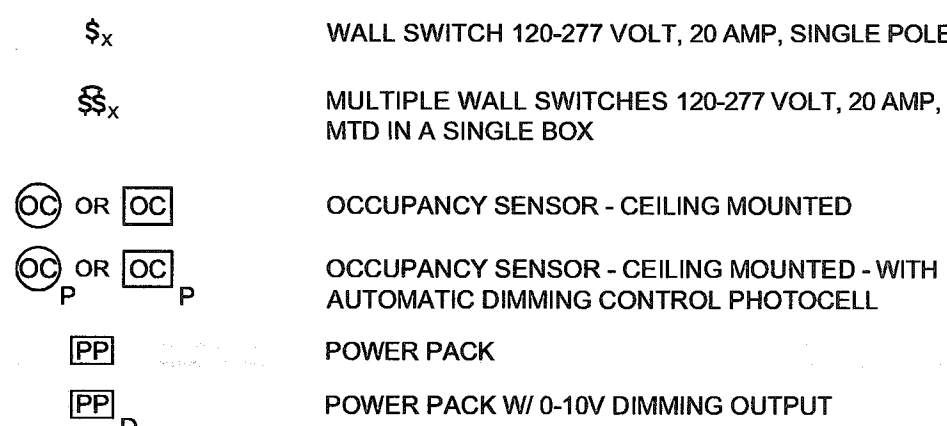
### WALL MTD



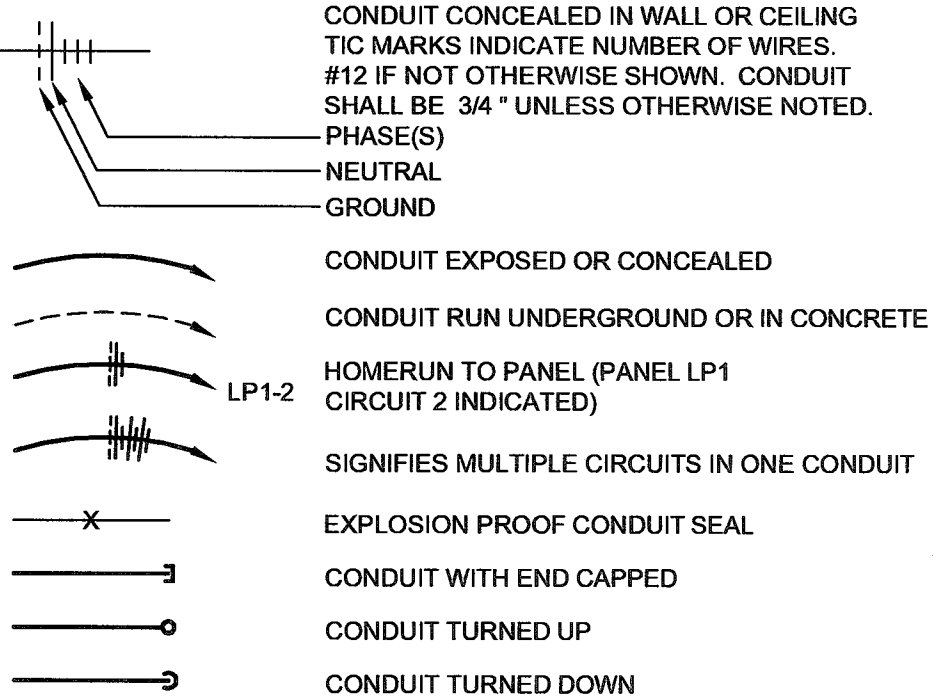
## INTERIOR LIGHTING CONTROLS

SUBSCRIPTS INDICATE THE FOLLOWING:

a = SWITCH DESIGNATION  
D = DIMMER  
2 = DOUBLE-POLE  
3 = THREE-WAY  
4 = FOUR-WAY  
K = KEY-OPERATED  
OC = OCCUPANCY SENSOR  
P = PILOT LIGHT  
T = TIMER  
L = LOW-VOLTAGE  
M = MOTOR RATED WITH OVERLOAD PROTECTION  
IG = ISOLATED GROUND  
EXP = EXPLOSION PROOF  
WP = WEATHERPROOF  
DR = DOOR SWITCH



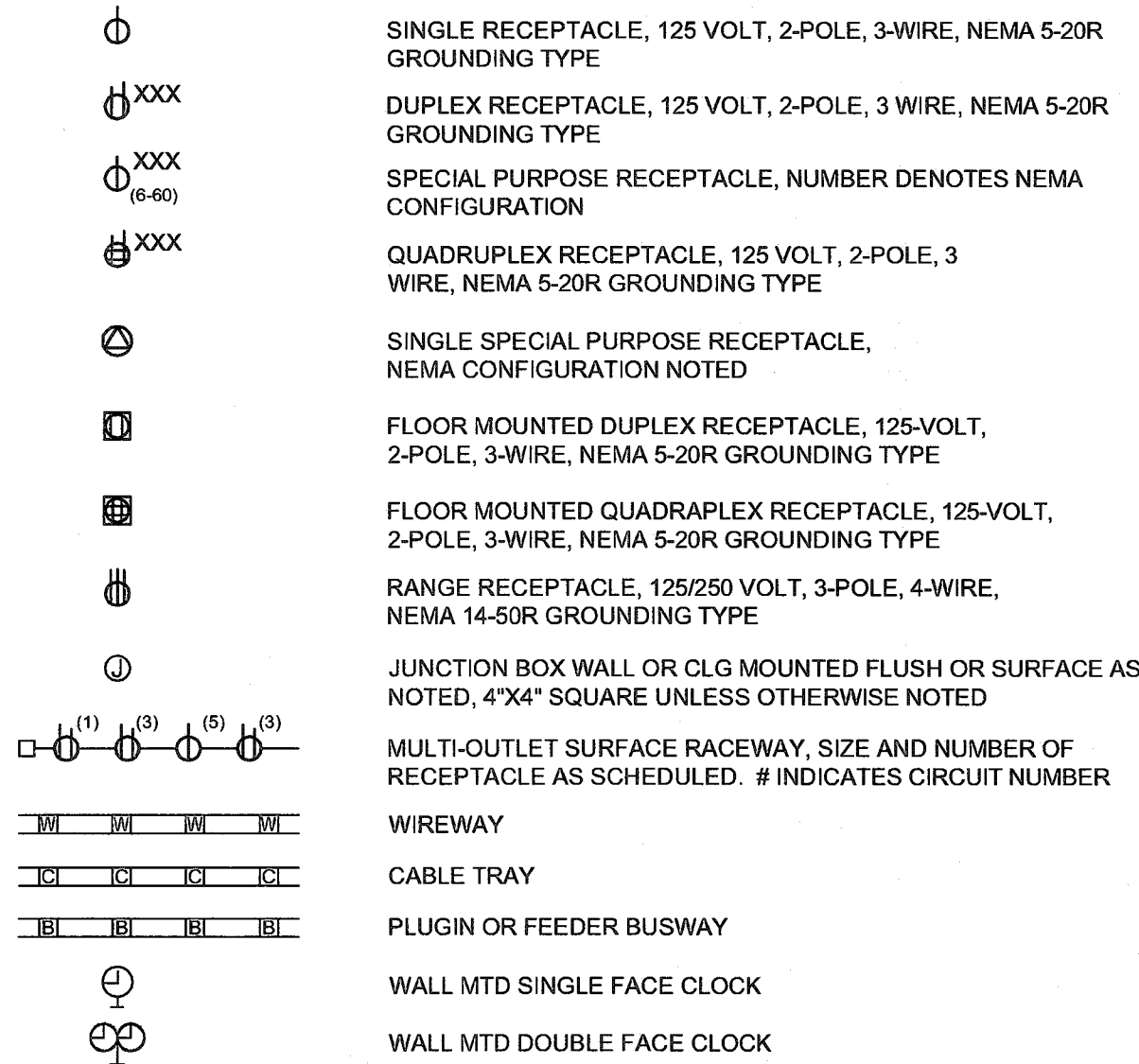
## INTERIOR CONDUIT & WIRE



## POWER WIRING DEVICES

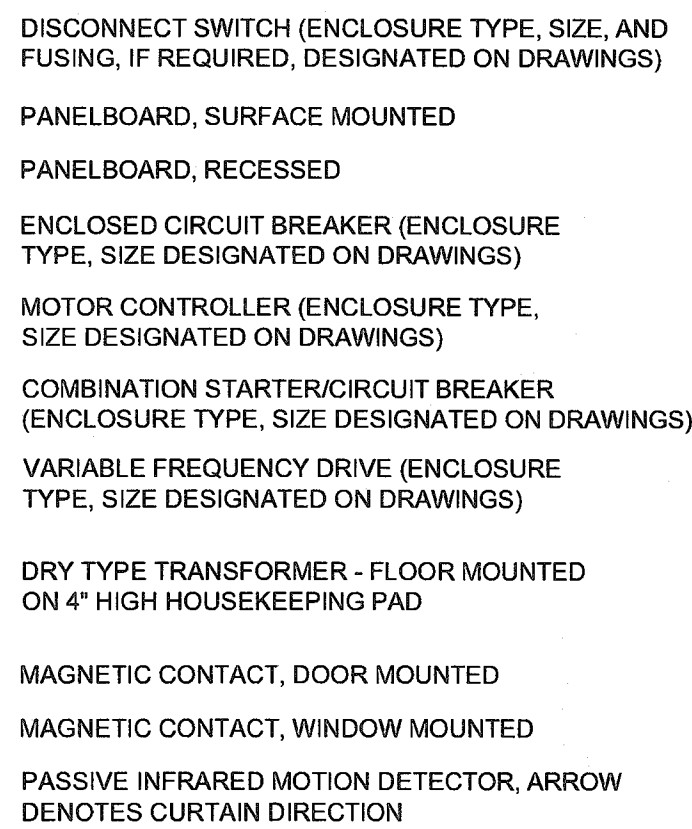
SUBSCRIPTS INDICATE THE FOLLOWING:

WP = WEATHERPROOF, IN-USE COVER  
WR = WEATHER-RESISTANT WIRING DEVICE  
GFCI = GROUND FAULT CIRCUIT INTERRUPTER  
GF-BF = BLANK FACE GROUND FAULT INTERRUPTER  
IG = ISOLATED GROUND  
EXP = EXPLOSION PROOF  
ACT = ABOVE COUNTER TOP  
TR = TAMPER-RESISTANT WIRING DEVICE  
AFCI = ARC FAULT CIRCUIT INTERRUPTER  
SPD = SURGE PROTECTION DEVICE



## POWER DEVICES

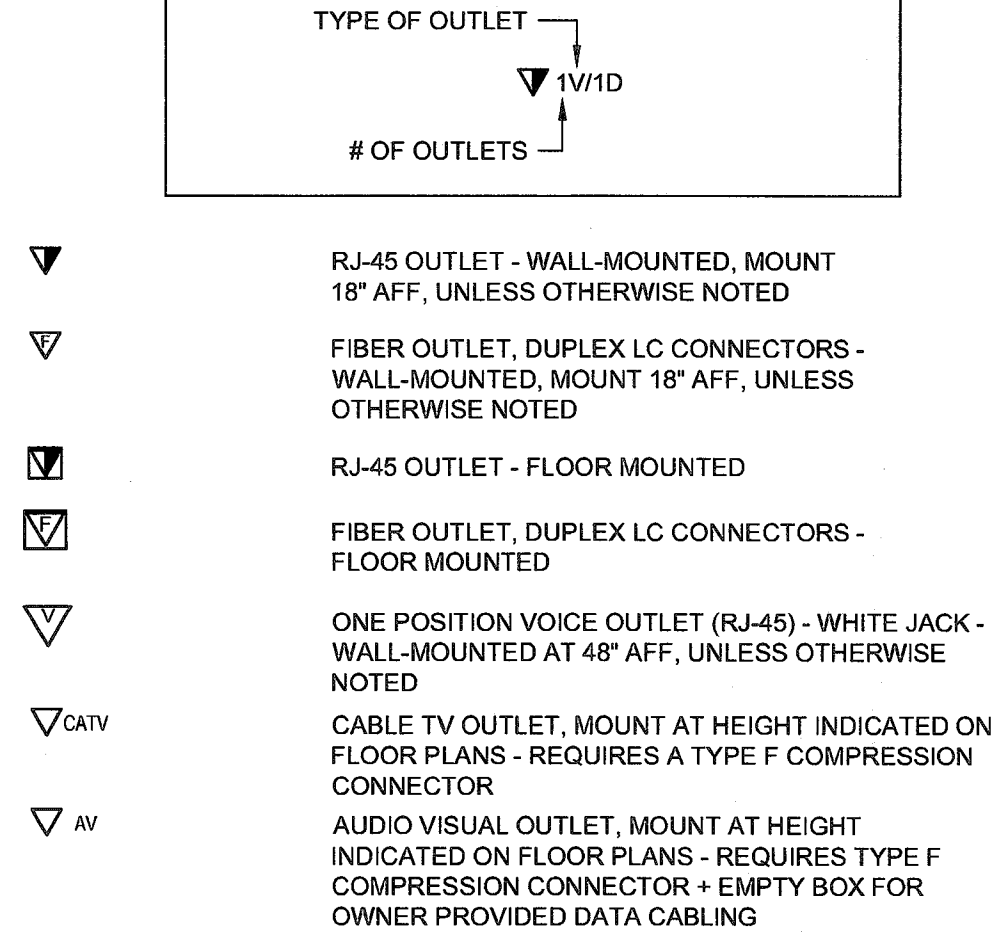
MOTOR CONNECTION (5 HP INDICATED)



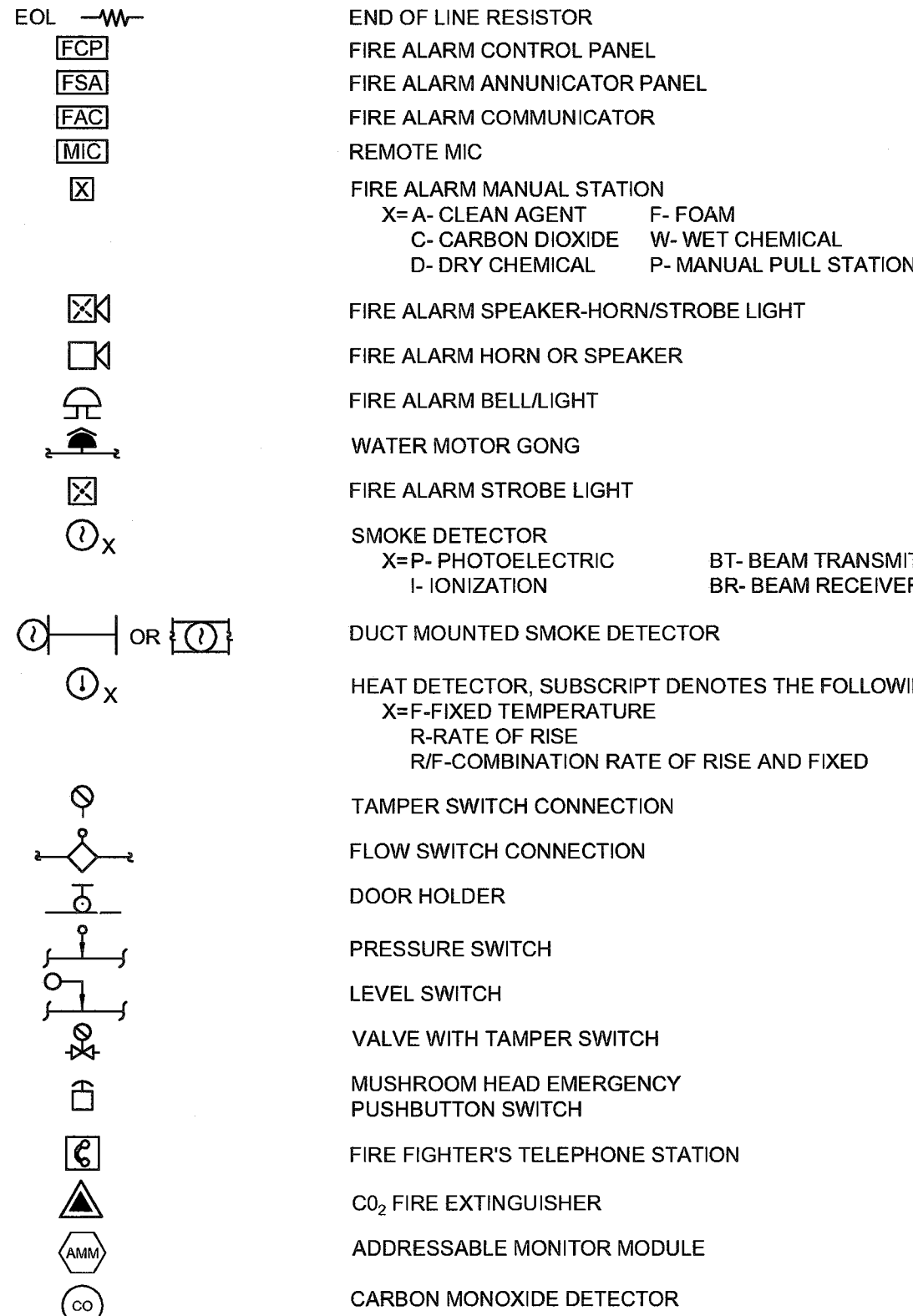
## TELECOMMUNICATIONS

SUBSCRIPTS INDICATE THE FOLLOWING:

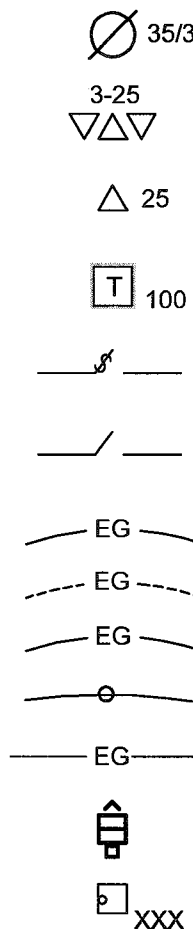
V = VOICE OUTLET  
D = DATA OUTLET



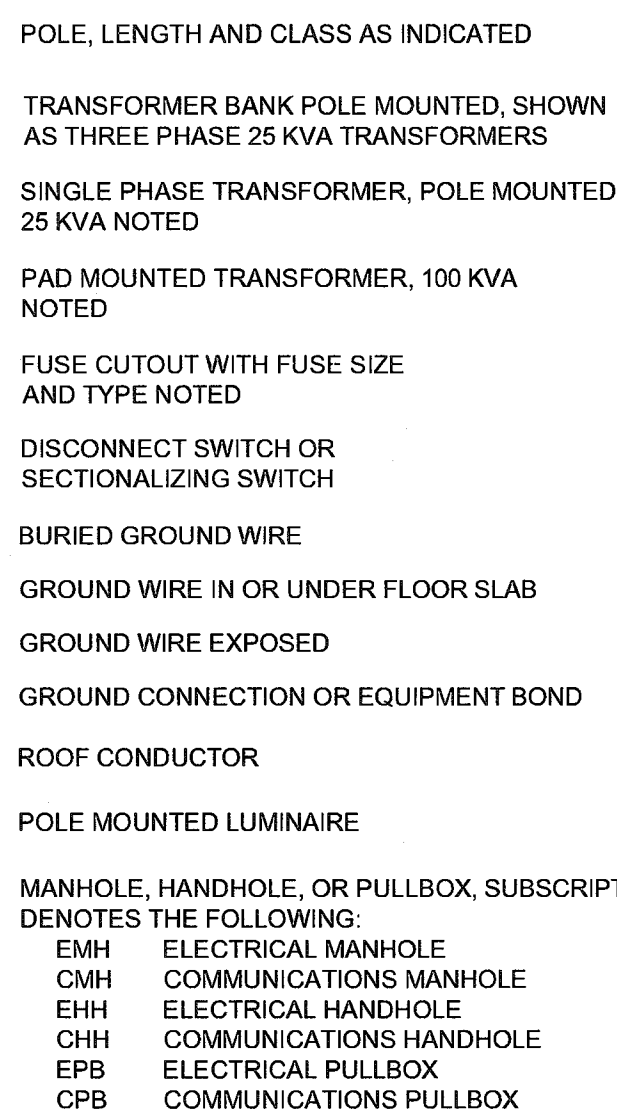
## FIRE ALARM/SUPPRESSION SYSTEM DEVICES



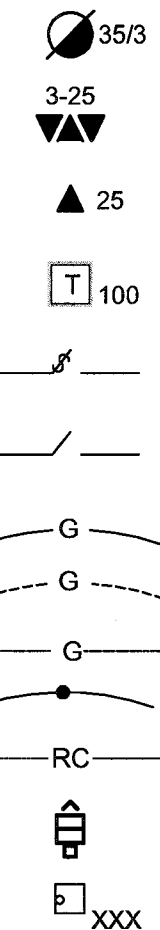
### EXISTING



### EXTERIOR



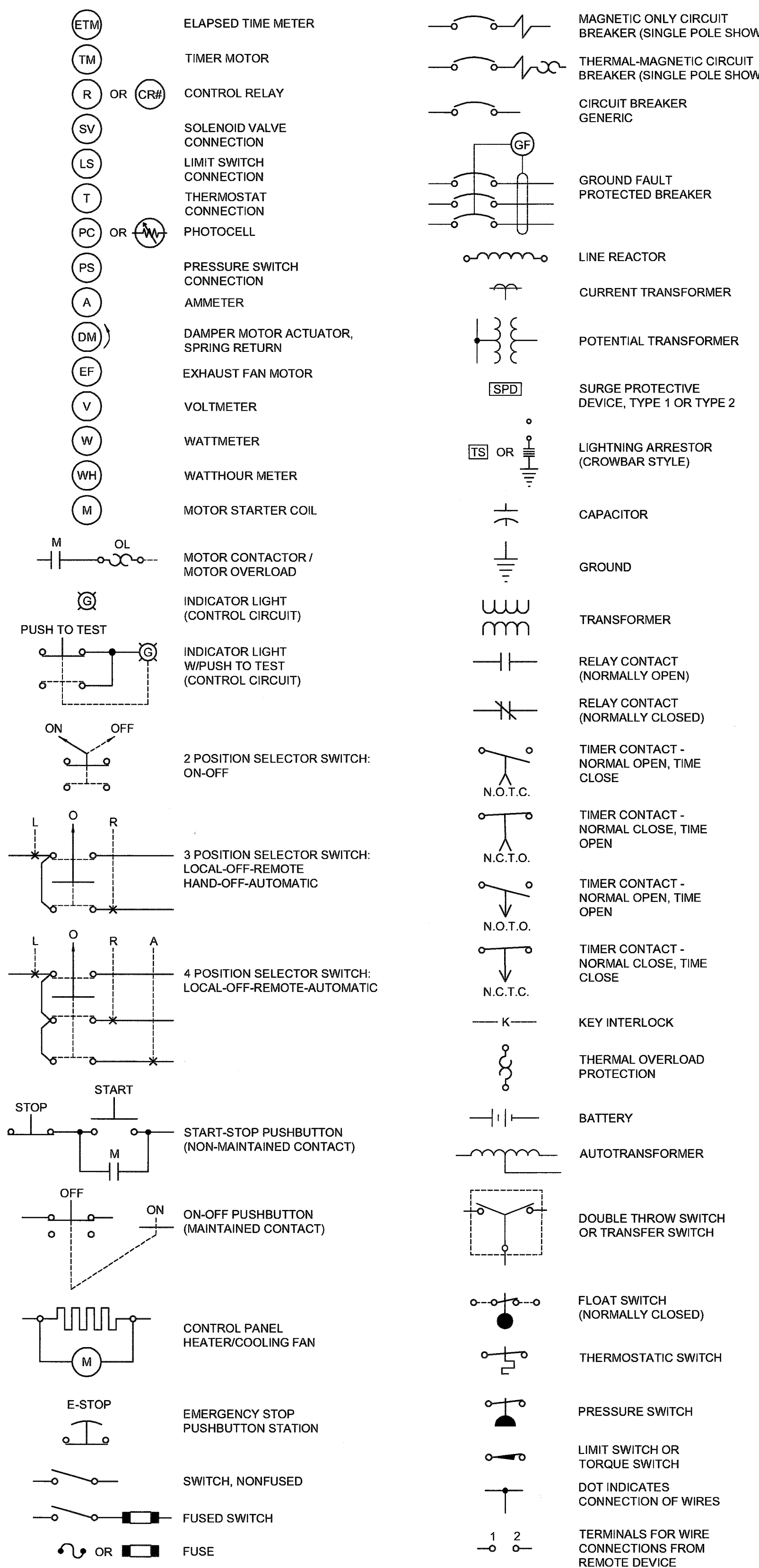
### NEW



## GENERAL NOTES:

- THE MINIMUM STANDARD FOR ALL WORK SHALL BE THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE WITH IN STATE AMENDMENTS AND THE NATIONAL ELECTRICAL CODE (NEC).
- ALL ELECTRICAL WORK SHALL BE PERFORMED BY AN IN-STATE LICENSED ELECTRICIAN.
- ALL PERMITS NEEDED TO LEGALLY PERFORM THE ELECTRICAL WORK SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO START OF WORK. COST OF PERMITTING IS BY THE CONTRACTOR.
- AT COMPLETION OF THE WORK, A CERTIFICATE OF COMPLIANCE FROM THE LOCAL AHJ OVER THE ELECTRICAL WORK SHALL BE PROVIDED TO THE ENGINEER AND OWNER. COST OF ELECTRICAL INSPECTION IS BY THE CONTRACTOR.
- ALL MATERIALS USED IN THE PROJECT GENERALLY SHALL BE NEW AND UNUSED, UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL NEW MATERIALS SHALL BE LISTED AND LABELED BY UL OR OTHER ACCEPTABLE LISTING AGENCY, WHERE A LISTING EXISTS.
- THE CONTRACTOR SHALL VISIT THE SITE(S) PRIOR TO BIDDING TO FAMILIARIZE THEMSELVES WITH PROJECT REQUIREMENTS AND EXISTING CONDITIONS.
- FIRESTOP ALL NEW CONDUIT INSTALLED THROUGH EXISTING OR NEW FIRE RATED ASSEMBLIES.
- SHOP DRAWINGS SHALL BE SUBMITTED ON ALL ELECTRICAL MATERIALS AND EQUIPMENT FOR ACCEPTANCE PRIOR TO PURCHASE BY THE CONTRACTOR.
- WHEN AN ITEM DEMOLISHED IS REMOVED, REMOVE ALL CONCRETE PADS, FASTENERS, CONDUIT AND WIRING. SCARIFY SURFACE AND RESTORE TO MATCH EXISTING SURROUNDING SURFACE, INCLUDING PAINTING TO MATCH.
- ALL NEW WIRING SHALL BE ENCLOSED IN AN APPROVED RACEWAY SYSTEM. OPEN WIRING IS PROHIBITED.
- CIRCUIT BREAKERS USED FOR HVAC EQUIPMENT LOADS SHALL BE HACR TYPE.
- ENSURE DEDICATED ELECTRICAL SPACE IS PROVIDED AT ELECTRICAL EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE 110.26.
- UP TO 3 CIRCUITS MAY BE COMBINED IN ONE CONDUIT, AS LONG AS NEC DERATING RULES ARE FOLLOWED.
- ALL CIRCUITS SHALL HAVE A DEDICATED NEUTRAL. SHARED NEUTRALS AND MULTI-WIRE CIRCUITS ARE NOT TO BE USED EXCEPT POSSIBLY TO COORDINATE WITH SYSTEMS FURNITURE. SEE POWER PLAN.
- 120 VOLT CIRCUITS THAT EXCEED 75 LINEAR CIRCUIT FEET SHALL BE INCREASED TO #10 AWG AS A GENERAL RULE. OTHER CIRCUITS WILL BE DESIGNED SPECIFICALLY WITH VOLTAGE DROP CONSIDERED IN CONDUCTOR SIZING.
- COORDINATE ALL MOTOR STARTERS, FEEDERS AND DISCONNECT SWITCHES FOR HVAC AND OTHER UTILIZATION EQUIPMENT ACTUALLY PROVIDED IN ACCEPTED SHOP DRAWINGS.
- IN ORDER TO COMPLY WITH OSHA REQUIREMENTS, NO OPERATOR DEVICE OF ANY PANEL OR DISCONNECT OR MOTOR CONTROL SHALL BE HIGHER THAN 6'-6" AFF.
- PROVIDE AN EXTERIOR RATED SERVICE RECEPTACLE WITHIN 25 FEET HORIZONTALLY OF ANY EXTERIOR OR ROOFTOP HVAC OUTDOOR UNIT (HEATING OR AIR CONDITIONING ONLY).
- SUPPORT ALL LUMINAIRES FROM THE STRUCTURE, NOT FROM THE SUSPENDED CEILING GRID. ALSO ATTACH THE LUMINAIRES TO THE GRID SYSTEM USING EARTHQUAKE CLIPS (SIMILAR TO ERICO/CADDY FASTENERS OR T&B/STEEL CITY).
- DEVICE PLATES SHALL BE INSTALLED PLUMB. JUMBO OR OVERSIZED PLATES SHALL NOT BE USED.
- NEW RECEPTACLES SHALL BE INSTALLED WITH GROUND PIN ORIENTATION TO MATCH EXISTING. IN NEW CONSTRUCTION, GROUND PIN DOWN ABOVE COUNTERS OR WORK BENCHES AND UP FOR LOW WALL MOUNTED DEVICES.
- AT COMPLETION OF PROJECT, ALL ELECTRICAL, TELECOMMUNICATIONS, AND ELECTRONIC SAFETY SYSTEMS SHALL BE FULLY OPERATIONAL.
- INSTALL A NYLON PULLSTRING IN ALL SPARE CONDUITS, ACCESSORIES FOR HVAC AND OTHER UTILIZATION EQUIPMENT ACTUALLY PROVIDED IN ACCEPTED SHOP DRAWINGS.
- EGRESS LUMINAIRES AND EXIT SIGNS REQUIRE UNSWITCHED LIGHTING CONDUCTOR.
- WHERE DUPLX RECEPTACLES ARE INDICATED GENERALLY BACK TO BACK ON OPPOSITE SIDES OF A PARTY WALL, THE RECEPTACLES SHALL NOT BE INSTALLED IN THE SAME STUD SPACE, BUT SHALL BE SEPARATED BY AT LEAST ONE STUD SPACE.
- PROVIDE LABEL WITH ESTIMATED FAULT CURRENT AND DATE CALCULATED ON THE MAIN SERVICE DISCONNECT ENCLOSURE. PROVIDE COORDINATION STUDY AND ARC FLASH STUDY, AND APPLY JOB SPECIFIC ARC FLASH HAZARD WARNING LABELS ON ALL SWITCHBOARDS, SWITCHGEAR, MCC'S AND PANELBOARDS.
- CIRCUIT BREAKERS, 1200 AMPERE OR LARGER, SHALL COMPLY WITH NEC ARTICLE 240.87, ARC ENERGY REDUCTION.

## SINGLE LINE DIAGRAMS/CONTROLS



DESIGNED: WER

BY: DATE

REVISIONS

DESCRIPTION

DATE

NOT TO SCALE

SHEET NO.

WER

WER

WER

WER

WLM

THIS MARK SHOULD MEASURE EXACTLY T WHEN PLOTTED

E-001

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STANDARD ELECTRICAL SYMBOLS

BABY FARMS LIFT STATION AND FORCE MAIN IMPROVEMENTS

FALL CREEK REGIONAL WASTE DISTRICT