



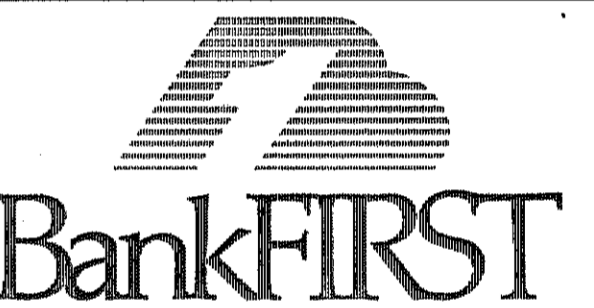
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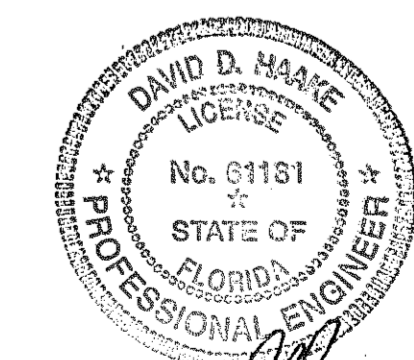
MARK	DATE	DESCRIPTION
09-15-09		DEVELOPER REVIEW
11-16-09		ISSUE FOR PERMIT
12-02-09		ISSUE FOR PERMIT

PROJECT NO:
09-529.a

ELECTRICAL
LEGEND

PROFESSIONAL ENGINEER

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DATE: 12-1-09



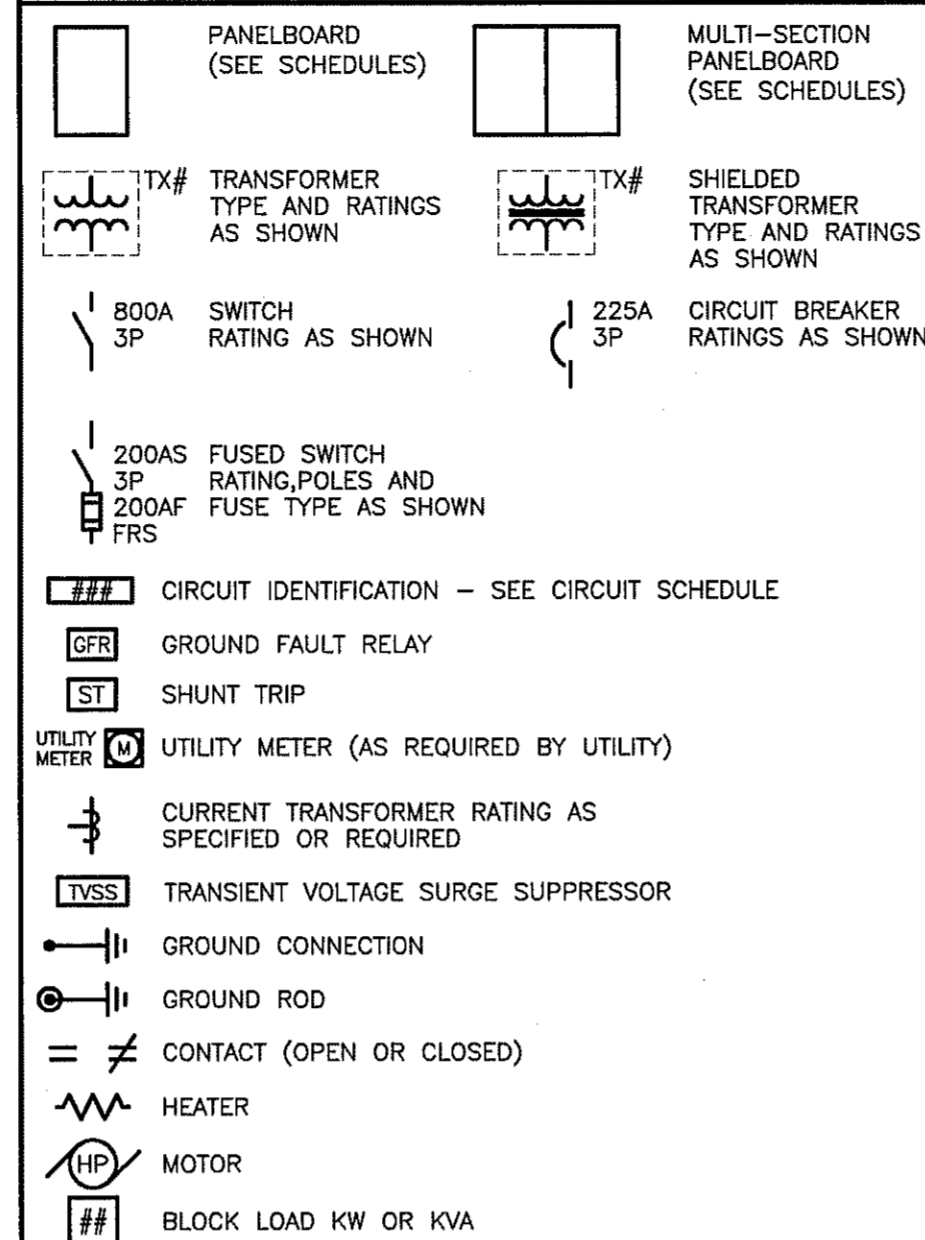
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E-501

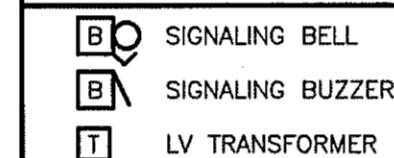
ELECTRICAL SYMBOLS

NOTE: THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ABBREVIATIONS, ETC. ARE NECESSARILY USED ON THE DRAWINGS.

ELECTRICAL ONE-LINE & RISER



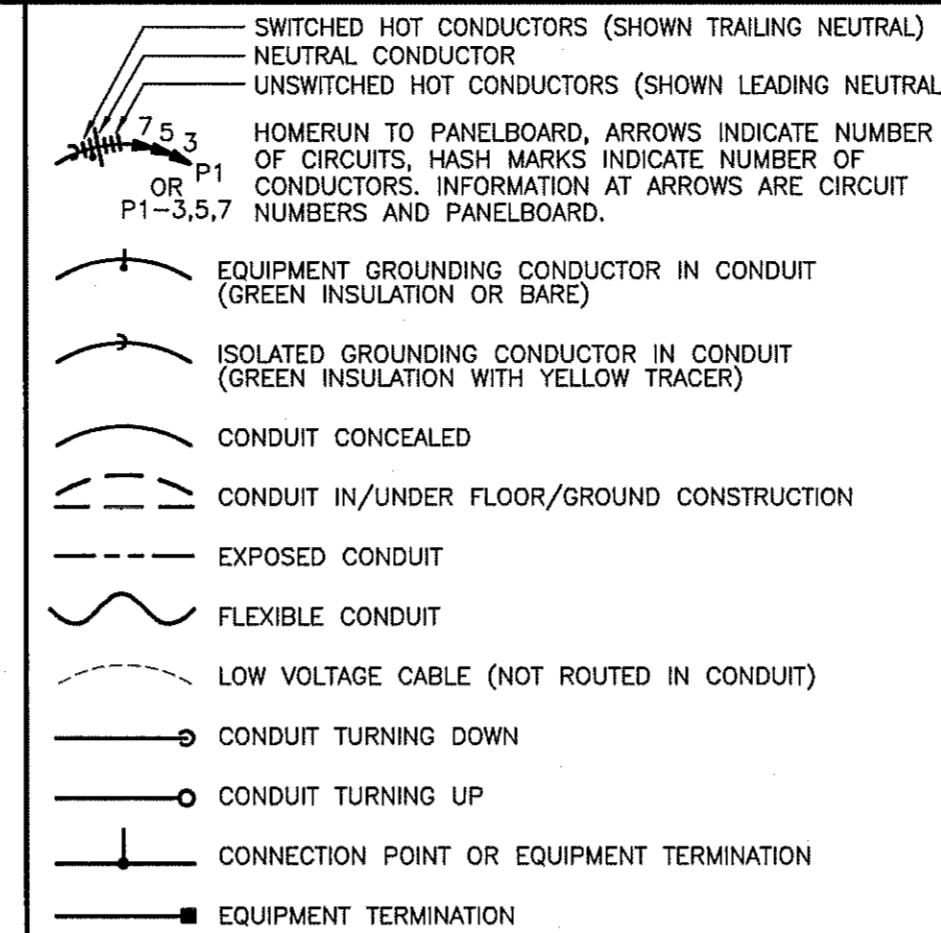
SIGNALING



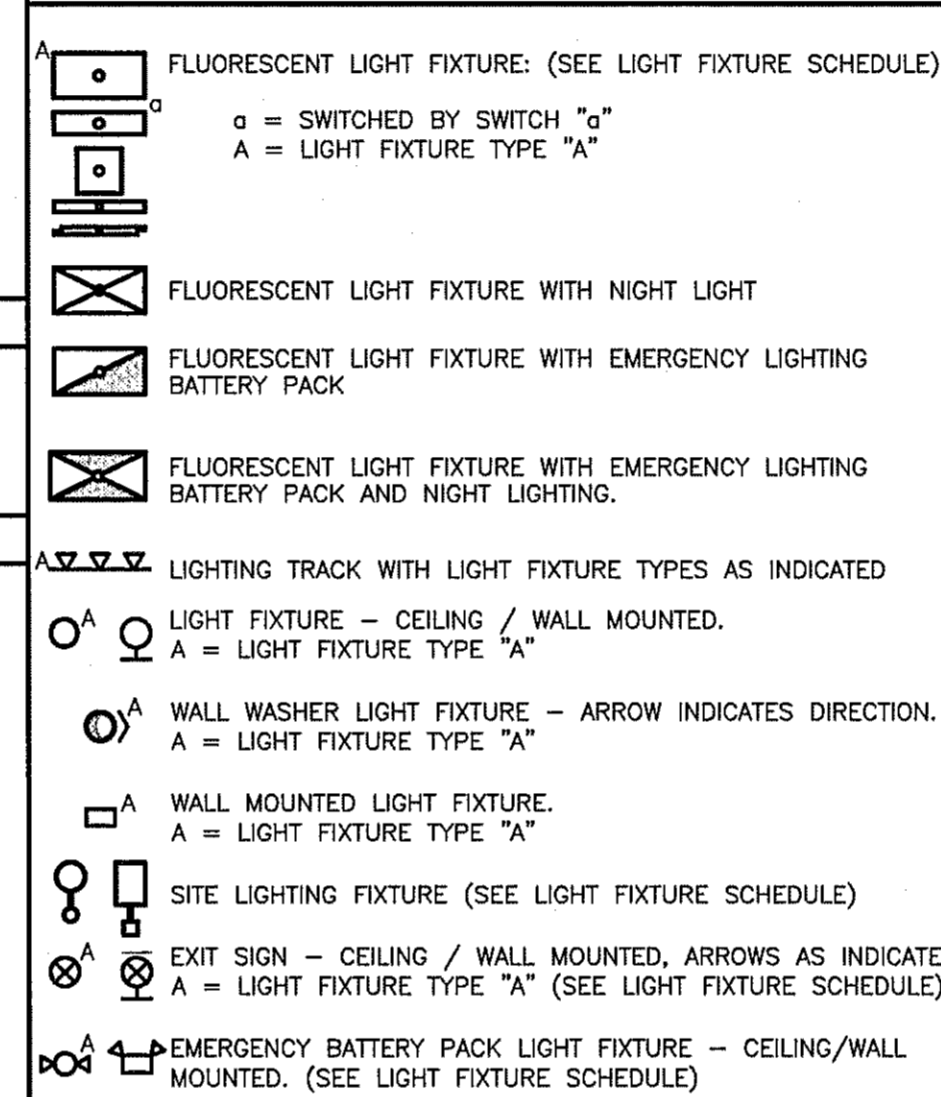
ABBREVIATIONS

A AMPERES, AIR (COMPRESSED)	MAX MAXIMUM
A/C AIR CONDITIONING	MCA MINIMUM CIRCUIT AMPACITY
AF AMPERE FUSE	MCB MAIN CIRCUIT BREAKER
AFC ABOVE FINISHED CEILING	MCC MOTOR CONTROL CENTER
AFCI ARC FAULT CIRCUIT INTERRUPTER	MD MOTORIZED DAMPER
AFA AREA FOR EVACUATION ASSISTANCE	MDP MAIN DISTRIBUTION PANEL
AFF ABOVE FINISHED FLOOR	MFR MANUFACTURER
AFG ABOVE FINISHED GRADE	MG MOTOR GENERATOR
AI ANALOG INPUT	MH MANHOLE
AIC AMPERE INTERRUPTING CURRENT	MIN MINIMUM
AL ALUMINUM	MLO MAIN LUGS ONLY
AO ANKLOS OUTPUT	MOCP MAXIMUM OVERCURRENT PROTECTION
AP ACCESS PANEL	MSB MAIN SWITCHBOARD
ATS AUTOMATIC TRANSFER SWITCH	MSWB MAIN SWITCHBOARD
AWG AMERICAN WIRE GAUGE	MS/TP MASTER SLAVE/TOKEN PASSING COMMUNICATION TRUNK
BAS BUILDING AUTOMATION SYSTEM	MTD MOUNTED
BFF BELOW FINISHED FLOOR	N/A NOT APPLICABLE
BFG BELOW FINISHED GRADE	N/C NORMALLY CLOSED
BI BINARY INPUT	NC NOT IN CONTRACT
BKR BREAKER	NL NIGHT LIGHT
BO BINARY OUTPUT	N/O NORMALLY OPEN
C CONDUIT	OC ON CENTER
CD CANDELA	OS OCCUPANCY SENSOR
CT CURRENT TRANSFORMER	PDU POWER DISTRIBUTION UNIT
CA TV CABLE TELEVISION SYSTEM	PH, Ø PHASE
CTV CLOSED CIRCUIT TELEVISION	PV FLOW INDICATOR VALVE
CKT CIRCUIT	PNL PANEL
CPT CONTROL POWER TRANSFORMER	PNLBD PANELBOARD
CU COPPER, CONDENSING UNIT	PROVIDE FURNISH AND INSTALL
CVD CUMULATIVE VOLTAGE DROP	PT POTENTIAL TRANSFORMER
DDC DIRECT DIGITAL CONTROL	PTZ PAN, TILT, ZOOM
DI DIGITAL INPUT, DUCTILE IRON	QTY QUANTITY
DN DOWN	RCP RT RECEPTACLE
DPDT DOUBLE-POLE, DOUBLE-THROW	RLA RUNNING LOAD AMPS
DPST DOUBLE-POLE, SINGLE-THROW	RTU ROOFTOP UNIT
EM EMERGENCY	SD SMOKE DETECTOR, SUPPLY DUCT
EPO EMERGENCY POWER OFF	SF SQUARE FEET, SUPPLY FAN
ETR EXISTING TO REMAIN	SPOT SINGLE-POLE, DOUBLE-THROW
FACP FIRE ALARM CONTROL PANEL	SPST SINGLE-POLE, SINGLE-THROW
FBO FURNISHED BY OTHERS/OWNER	SS STAINLESS STEEL, SANITARY
FCA FAULT CURRENT AMPS	SEWER, SOIL STACK
FF FINISHED FLOOR	ST SHUNT TRIP, STEAM TRAP
FLA FULL LOAD AMPS	SWBD SWITCHBOARD
FLR FLOOR	TL TWISTLOCK
FVNR FULL-VOLTAGE, NON-REVERSING	TR TAMPER RESISTANT
GC GENERAL CONTRACTOR	TX TRANSFORMER
GFCI GROUND FAULT CIRCUIT INTERRUPTER	TYP TYPICAL
GFR GROUND FAULT RELAY	U/F UNDERFLOOR
G GROUND	U/G UNDERGROUND
GND GROUND	UH UNIT HEATER
GRS GALVANIZED RIGID STEEL	U/S UNDERSLAB
HOA HAND-OFF-AUTOMATIC	UL UNDERWRITERS LABORATORIES, INC.
IG ISOLATED GROUND	UNO UNLESS NOTED OTHERWISE
ISC SHORT CIRCUIT CURRENT	UPS UNINTERRUPTIBLE POWER SUPPLY
JB JUNCTION BOX	V VOLTS
J-BOX JUNCTION BOX	VAC VOLTS ALTERNATING CURRENT
Kcmil 1000 CIRCULAR MILS	VD VOLTAGE DROP
KK KIRK KEY	VDC VOLTS DIRECT CURRENT
KV KILOVOLT	VFD VARIABLE FREQUENCY DRIVE
KVA KILOVOLT-AMPS	W WIRE
KVAR KILOVOLT-AMPS REACTIVE	WP WEATHERPROOF
KW KILOWATT	XP EXPLOSION-PROOF
KWH KILOWATT-HOUR	
LF LINEAR FEET	
MATV MASTER ANTENNA TELEVISION SYSTEM	

CIRCUITING & WIRING



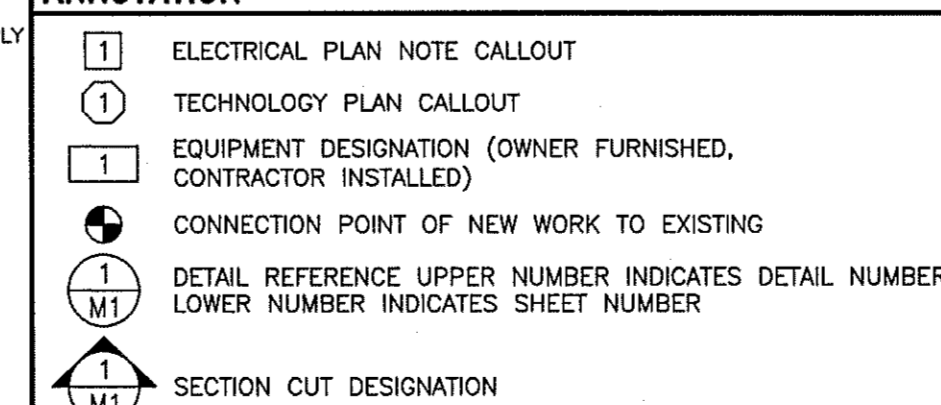
LIGHTING



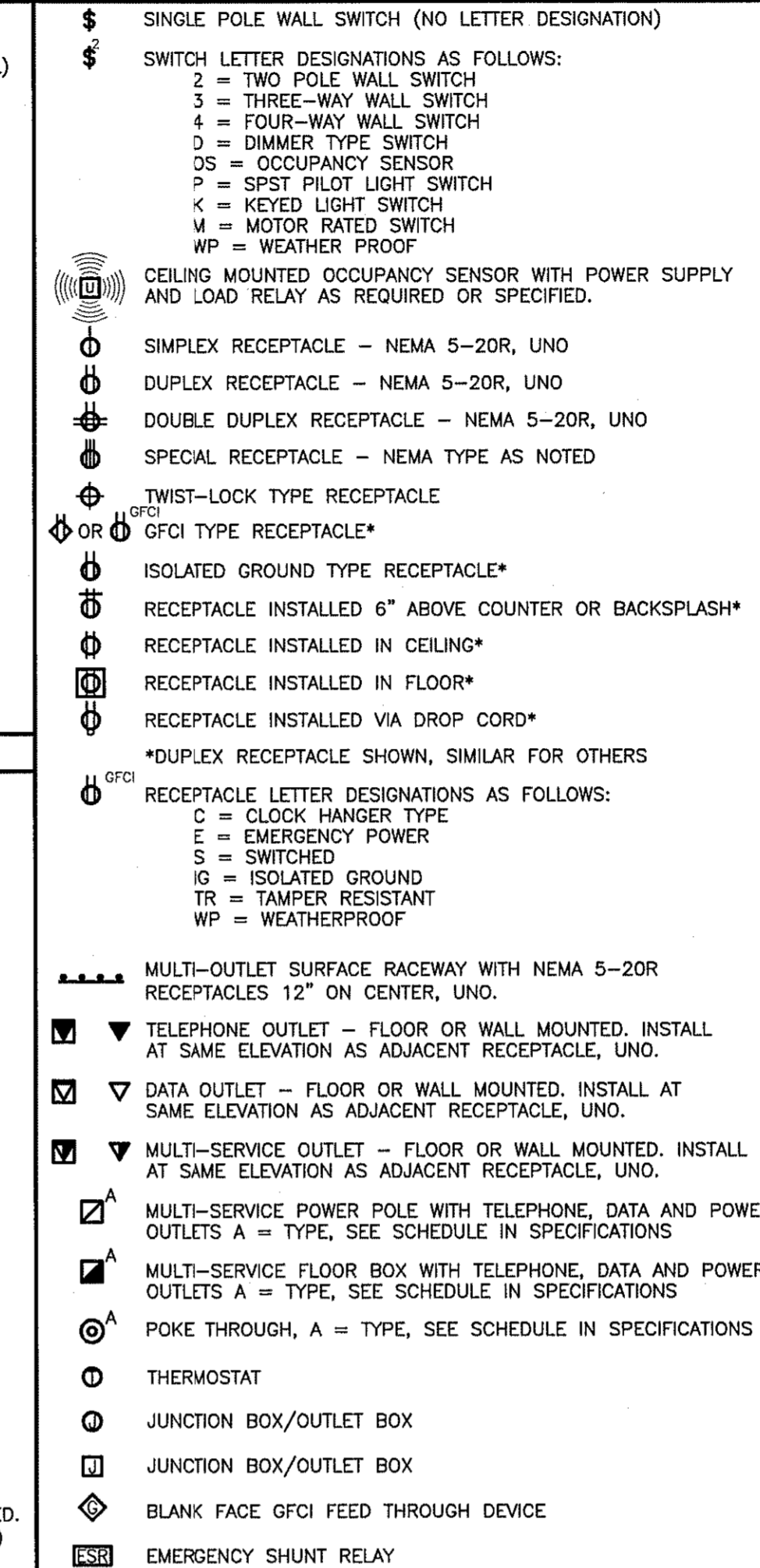
STANDARD MOUNTING HEIGHTS

DESCRIPTION	HEIGHT (AFF, AFG, UNLESS NOTED OTHERWISE)
ELECTRICAL	
ALARMS	48"
ANNUNCIATOR PANELS	48"
CLOCK OUTLETS (CENTERLINE)	84"
CONTROLS (CENTERLINE)	48"
EXIT SIGNS (WALL MOUNTED, BOTTOM)	80"
INTERCOM (AFA ONLY)	36"
INTERCOMS	48"
PANELS/PANELBOARDS (TOP)	72"
PHOTOCELLS	144"
RECEPTACLES (CENTERLINE)	18"
RECEPTACLES (EXTERIOR)	24"
RECEPTACLES (GARAGES)	26"
RECEPTACLES IN EQUIPMENT ROOMS	48"
REMOTE INDICATING LIGHT (EQUIPMENT ROOMS)	48"
REMOTE INDICATING LIGHT (FINISHED AREAS)	CEILING
SAFETY SWITCHES	48"
STARTERS	48"
SWITCHES (CENTERLINE)	48"
TELEPHONES (PUBLIC)	1 @ 48", 1 @ 36"
TELEPHONE, DATA OUTLETS (CENTERLINE)	18"
TELEPHONE TERMINAL BOARD (BOTTOM)	6"
TELEVISION OUTLETS	18"

ANNOTATION



WIRING DEVICES & OUTLETS



POWER EQUIPMENT & DEVICES

