

### MECHANICAL SYMBOL SCHEDULE

ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS

	TIE TO EXISTING (CONNECTION POINT)
	WASTE PIPING
	VENT PIPING
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER SUPPLY PIPING
	NATURAL GAS
	DRAIN LINE
	UNION - FLANGE - STRAINER
	GATE VALVE - CHECK VALVE
	BALL VALVE - PLUG COCK
	CALIBRATED BALANCING VALVE W/ PORTS - ISOLATION VALVE
	TRIPLE DUTY VALVE - PRESSURE REDUCING REGULATING VALVE
	BUTTERFLY VALVE - THREE WAY CONTROL VALVE
	PRESSURE RELIEF VALVE
	SOLENOID VALVE - GAUGE VALVE
	PUMP
	MANUAL VOLUME DAMPER (VD)
	MOTORIZED DAMPER
	THERMOSTAT - HUMIDISTAT (ZONE SUBSCRIPT)
	CO2 SENSOR
	TEMPERATURE CONTROL
	TEMPERATURE SENSOR
	SPRINKLER HEADS (PENDANT MOUNTED - SIDEWALL - UPRIGHT MOUNTED)
	BACK DRAFT DAMPER

### ELECTRICAL SYMBOL SCHEDULE

ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS

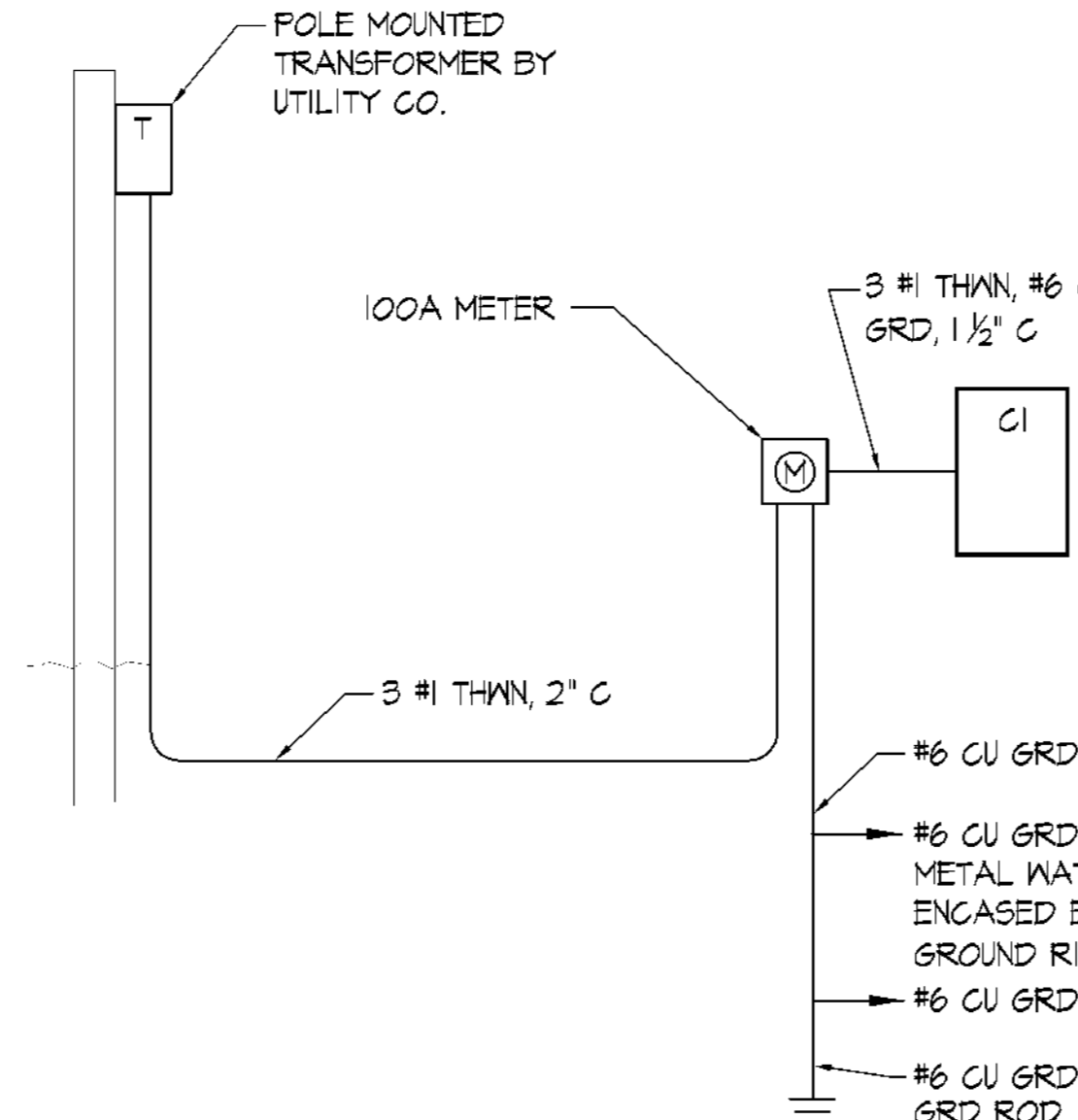
	HOME RUN CIRCUIT TO PANEL P1, BREAKER SPACES 12,14
	EACH ARROW INDICATES ONE CIRCUIT
	SHORT HATCH MARKS INDICATE # OF PHASE CONDUCTORS
	LONG HATCH MARKS INDICATE # OF NEUTRAL CONDUCTORS
	NO HATCH MARKS INDICATE TWO CONDUCTORS
	ADDITIONALLY, EVERY CIRCUIT TO INCLUDE CODE SIZED GROUND TIE TO EXISTING
	RECEPTACLE OUTLET (SINGLEPLEX - DUPLEX - QUADRUPLX)
	FLOOR SPECIAL POWER - SPECIAL POWER
	GROUND FAULT CIRCUIT INTERRUPT - WEATHER PROOF
	*HARD-WIRED WALL MOUNTED CLOCK
	JUNCTION BOX - PULL BOX - JUNCTION BOX ABOVE CEILING
	CONTACTOR - DISCONNECT - STARTER - FUSED DISCONNECT
	ELECTRIC MOTOR
	ELECTRIC PANEL
	WALL SWITCH SINGLE POLE (THREE POLE - TIMER SWITCH - DIMMER SWITCH)
	LIGHT FIXTURE (CEILING MOUNTED - WALL MOUNTED)
	FLUORESCENT LIGHT FIXTURE (ENCLOSED - STRIP)
	BATTERY PACK WITH EMERGENCY LIGHTS - EMERGENCY EXIT SIGN
	EMERGENCY EXIT WITH DUAL EMERGENCY LIGHTS
	LIGHT FIXTURES WITH EMERGENCY BATTERY PACK
	*FAX - FLOOR PHONE - WALL MOUNTED PHONE
	*DATA & COMMUNICATION
	INTERCOM
	SPEAKER
	FLOW SWITCH
	SPEAKER STROBE ALARM (NUMBER INDICATES CANDELA POWER)
	VISUAL ALARM (NUMBER INDICATES CANDELA POWER)
	AUDIO ALARM
	MANUAL PULL STATION
	TAMPER SWITCH
	FIRE ALARM CONTROL PANEL - TELEPHONE DIALER
	WATER FLOW INDICATOR
	INTERLOCK RELAY
	BREAKER
	CARD READER - KEY PAD

\* MINIMUM 3/4" CONDUIT WITH JUNCTION BOX AND PULL STRING.

### PANEL DESIGNATION: C1

PANEL DESCRIPTION: 240 VOLT, 1Ø, 3Ø, 5/1N, 100A M.B. Breaker, 42 CIRCUIT, W/GRD. BAR KIT, SQ D NQDD

CIRCUIT #	CIRCUIT DESCRIPTION	BRKR AMPS	BRKR POLES	WATTS PER PHASE		BRKR AMPS	BRKR POLES	CIRCUIT DESCRIPTION	CIRCUIT #
				A	B				
1	EXTERIOR LIGHTS	20	1	40					
2				600					
3	STORAGE ROOM LIGHTS	20	1						
4				120	120				
5	EAST OUTLETS	20	1	186					
6	EXIT SIGNS	20	1	1872					
7	UH-2	20	2	1872					
8				1872					
9	--	20	2						
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42									
TOTAL VOLT-AMPS (VA) PER PHASE:				5340	4552				
TOTAL CONNECTED LOAD (VA):				9892					
DIVERSITY (VA):				0					
SIMULTANEOUS LOAD (VA):				9892					
TOTAL AMPS:				41					



#### ELECTRICAL CALCULATIONS

CLASSROOM (ALT. #3)		
LIGHTING - 850# x 1.5 WATTS/#	=	1,275 VA
POWER - 850# x 1.5 WATTS/#	=	1,275 VA
HVAC - 3,000 WATTS x 2	=	6,000 VA
		8,550 VA

35A @ 240V / 1Ø  
\* PROVIDE 100 AMP / 1Ø SERV.

**02 POLE TRANSFORMER DETAIL (ALT. #3)**  
SCALE: NONE

### FAN SCHEDULE

MARK	MANUFACTURER	CATALOG NUMBER	DIA FT	RPM VOLTS/PHASE	MOTOR	MCA	MOCP	NOTES	
HVLS-7	MACROAIR	AVD-370	6	140	120/1	25 HP	1.5	5	1,2,3,4,5

- NOTES:
- DROP ROD WITH UNIVERSAL MOUNT TO PROVIDE ADEQUATE CLEARANCE FOR FAN.
  - PROVIDE 1 CENTRAL CONTROLLER TO CONTROL HVLS-7.
  - COLOR TO BE APPROVED BY ARCHITECT.
  - PROVIDE WITH INTEGRAL DISCONNECT SWITCH.
  - PROVIDE WITH BIRD GUARD.

### CLASSROOM LIGHT FIXTURE SCHEDULE

MARK	MANUFACTURER & MODEL NUMBER	TYPE	LAMPS		MOUNTING	REMARKS
			#	PHILIPS DESIGNATION		
A	ABOVE ALL URHB100401TR-FROSTED LENS	LED	-	-	TRUNNION	1,2
B	LITHONIA DMA2-3000LM-WD-ACL-MVOLT-40K-80CRI	LED	-	-	CHAIN	
C	BARN LIGHT ELECTRIC BLE-6-WHA12-PC-LED-?-615-WC-2000 4K	LED	-	-	WALL	3,4,5
E	LITHONIA LHQM-LED-R-SD	LED	-	-	WALL	
EI	LITHONIA ELA-B-QWP-L0309-SD	LED	-	-	WALL	6

- NOTES:
- SEE PLANS FOR FIXTURE MOUNTING HEIGHT
  - PROVIDE FIXTURE WITH BIRD GUARD.
  - MOUNT FIXTURE AT 9'-6" A.F.F. UNLESS NOTED OTHERWISE ON OIVES 01
  - ? REPRESENTS FIXTURE COLOR. FIXTURE COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURERS LIST OF COLORS.
  - PROVIDE FIXTURE WITH PHOTOCELL.
  - ORDER WITH ELA-W61, WIREGUARD

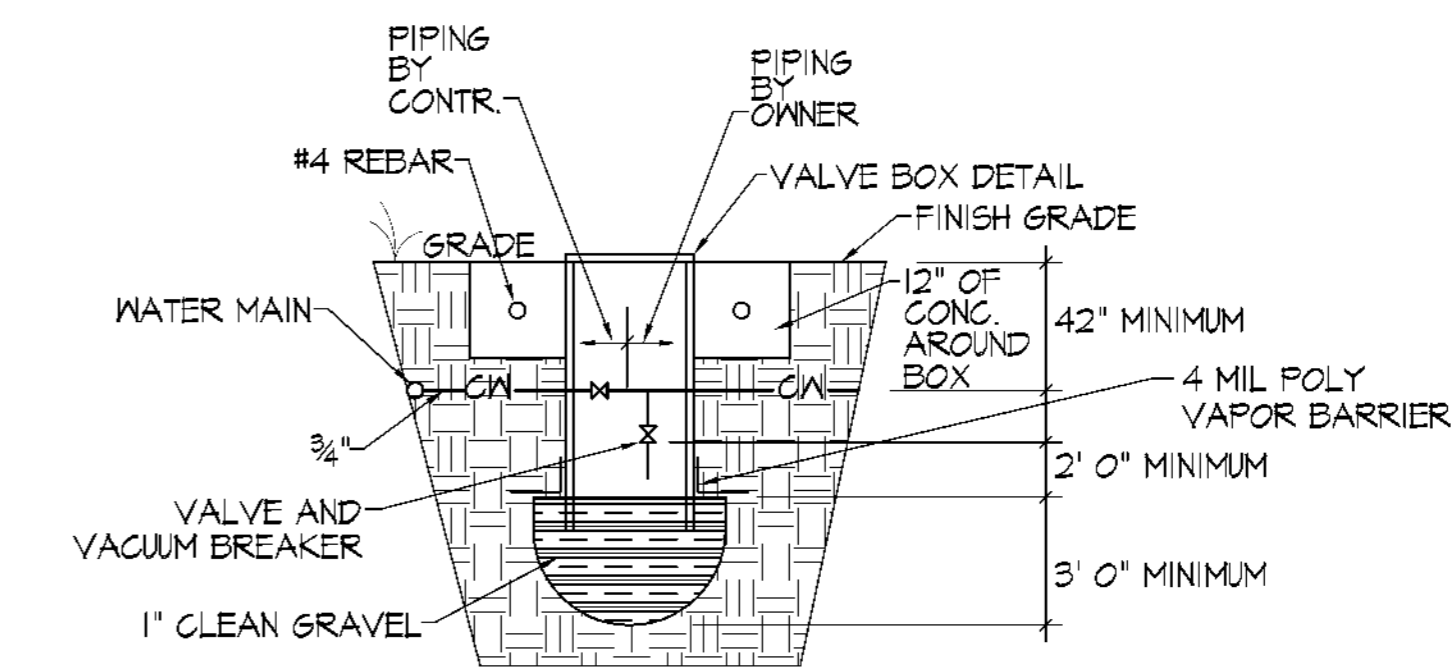
### PLUMBING FIXTURE SCHEDULE

MARK	MANUFACTURER MODEL #	DESCRIPTION
S-1	ELKAY ILR4322L4	43"x22" SINGL BOWL TOP MOUNT 18 GA. STAINLESS STEEL SINK WITH DRAINBOARD, STAINLESS STEEL DRAIN WITH STOPPER, 4-HOLE, STAINLESS STEEL DRAINABLE P-TRAP, SUPPLIES AND STOPS, FAUCET F-3
F-3	CHICAGO FAUCET 1102-6N8AE35-31TAB	DECK MOUNT, 8" FIXED CENTERS, 8" RIGID/SWING GOOSENECK SPOUT WITH AERATOR AND SIDE SPRAY, 4" VANDAL RESISTANT WRISTBLADE HANDLES, CHROMPLATE FINISH
DF3	MOST DEPENDABLE FOUNTAIN 440 5M 55 FA	BARRIER FREE WATER COOLER WITH 55 SURFACE CARRIER, NO LEAD, 8 GPH OF 50°F WATER FLOW, COLOR AS APPROVED BY ARCHITECT. MOUNT SPOUT OF UNIT @ 32" A.F.F.
FD-2	JOSAM 30000-A ZURN Z-415	3" CAST IRON FLOOR DRAIN WITH BOTTOM OUTLET, INVERTIBLE MEMBRANE CLAMP, ADJUSTABLE COLLAR AND 6" ROUND POLISHED NICKEL-BRONZE STRAINER.

### ELECTRIC UNIT HEATER SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	CFM	THROW FEET	MBH TOTAL	KW	# STAGES	ELECTRICAL VOLTS	Ø	MCA	REMARKS
UH-2	GMARK	MUH03-21	350	12	10.2	3.0	1	240	1	16	1,2

- NOTES:
- PROVIDE WITH INTEGRAL T-STAT CONTROL
  - PROVIDE WITH SERVICE DISCONNECT



**01 VALVE BOX DETAIL**  
NO SCALE

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**Clary Shy Agriculture Park**  
1751, 1769, & 1857 WEST ASH ST  
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ISSUE FOR PERMIT  
October 19, 2017  
REVISION DATE  
**CLASSROOM SCHEDULES**  
PROJECT #17015  
If you must print this drawing, please recycle.

MEP3.01