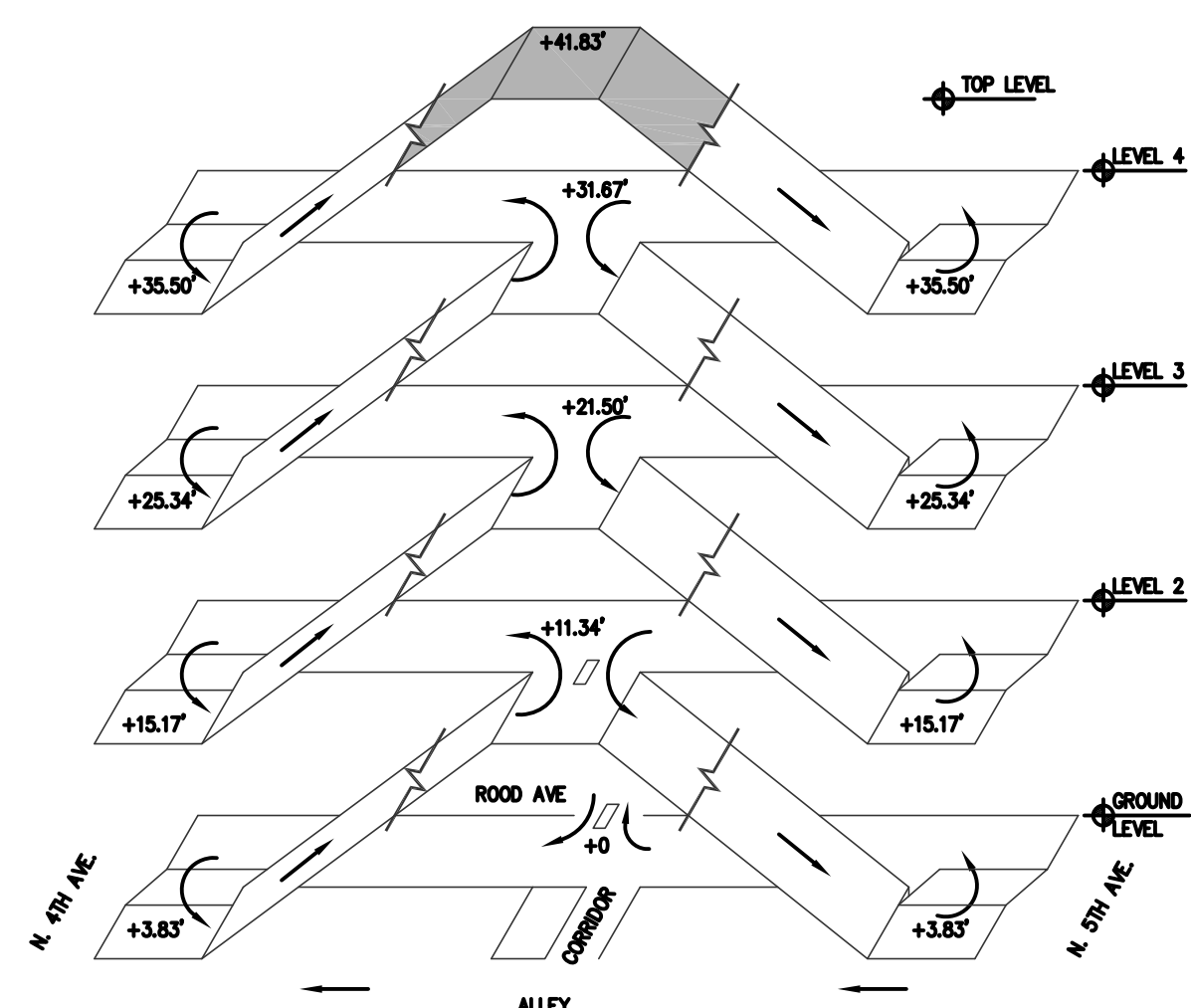
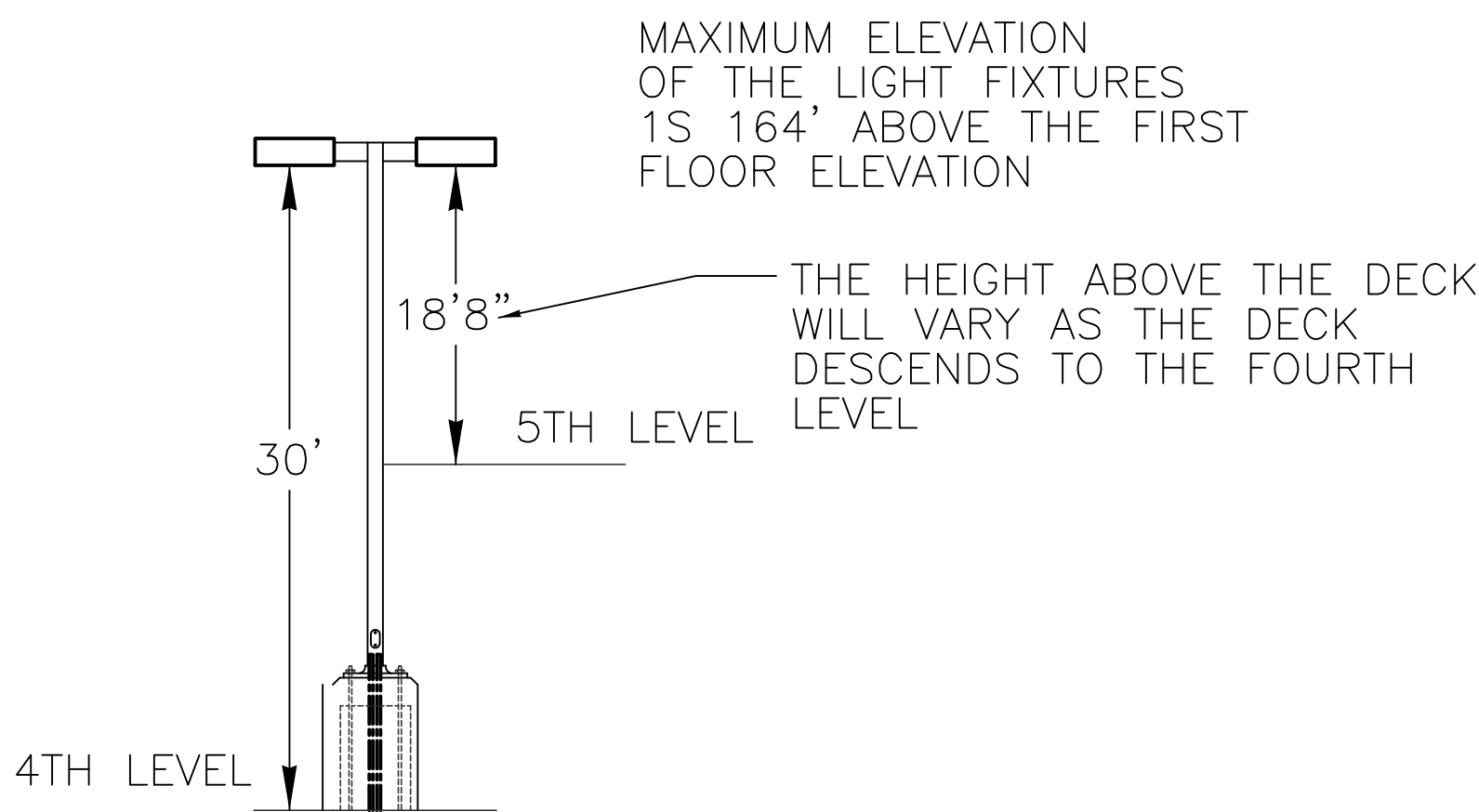
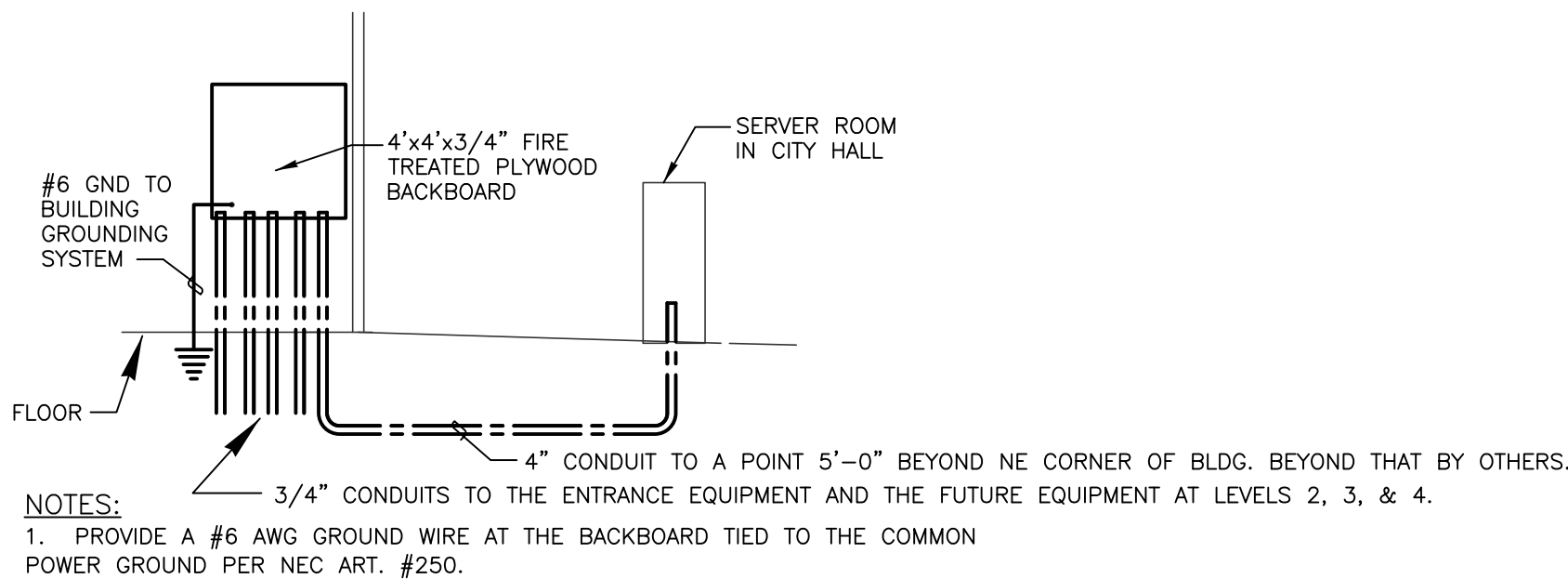
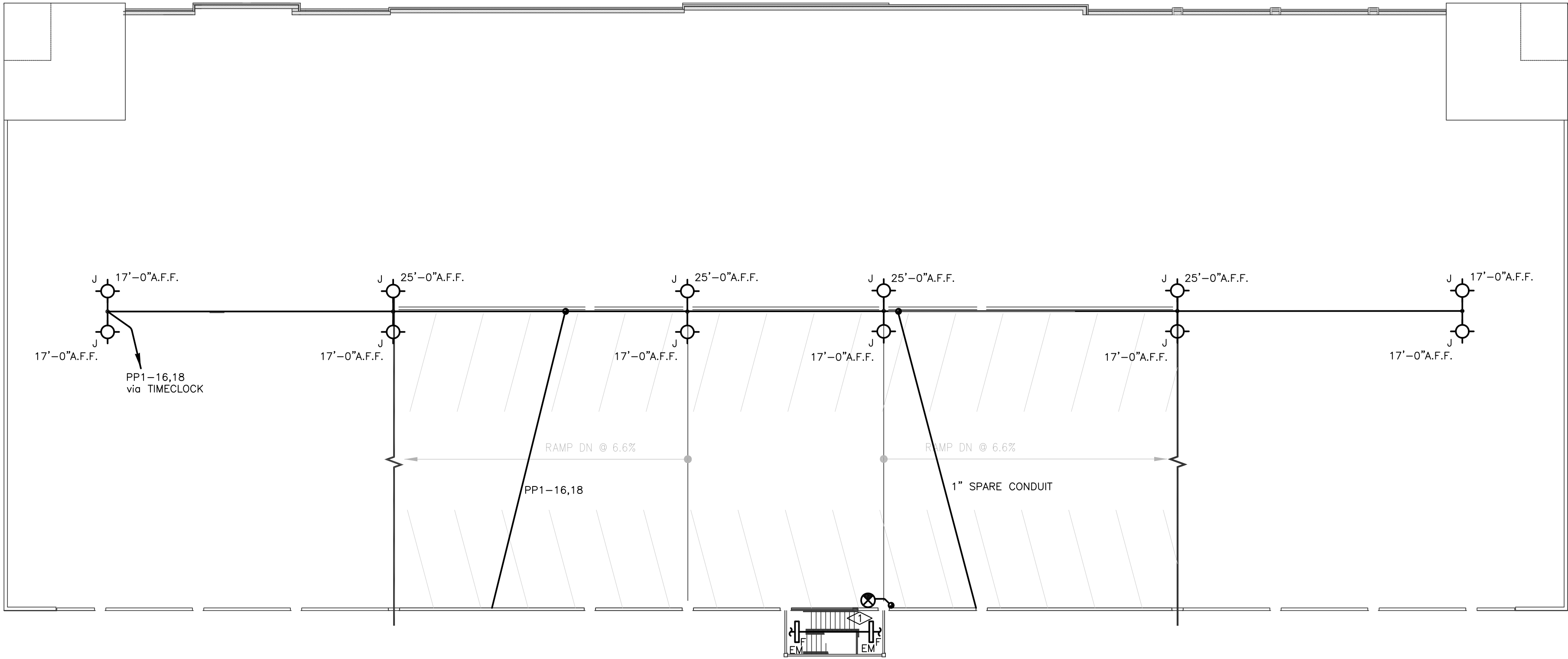




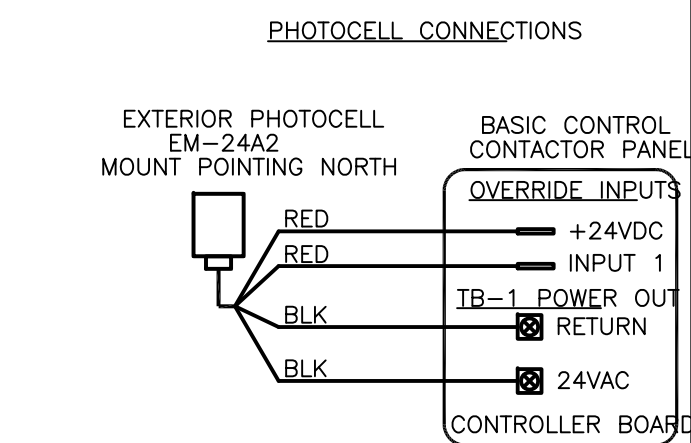
THIS ISOMETRIC IS A GRAPHIC REPRESENTATION OF THE BUILDING AND MAY NOT ACCURATELY DEPICT THE ACTUAL FLOOR PLAN. THE SHADED AREA IS THE AREA BEING LIGHT FROM LUMINAIRES SHOWN ON THIS PLAN

FLAG NOTES: ◇

1. CIRCUIT ALL LIGHTS IN THE EXTERIOR STAIRWELL TOGETHER VIA THE LIGHTING CONTROL UNIT.



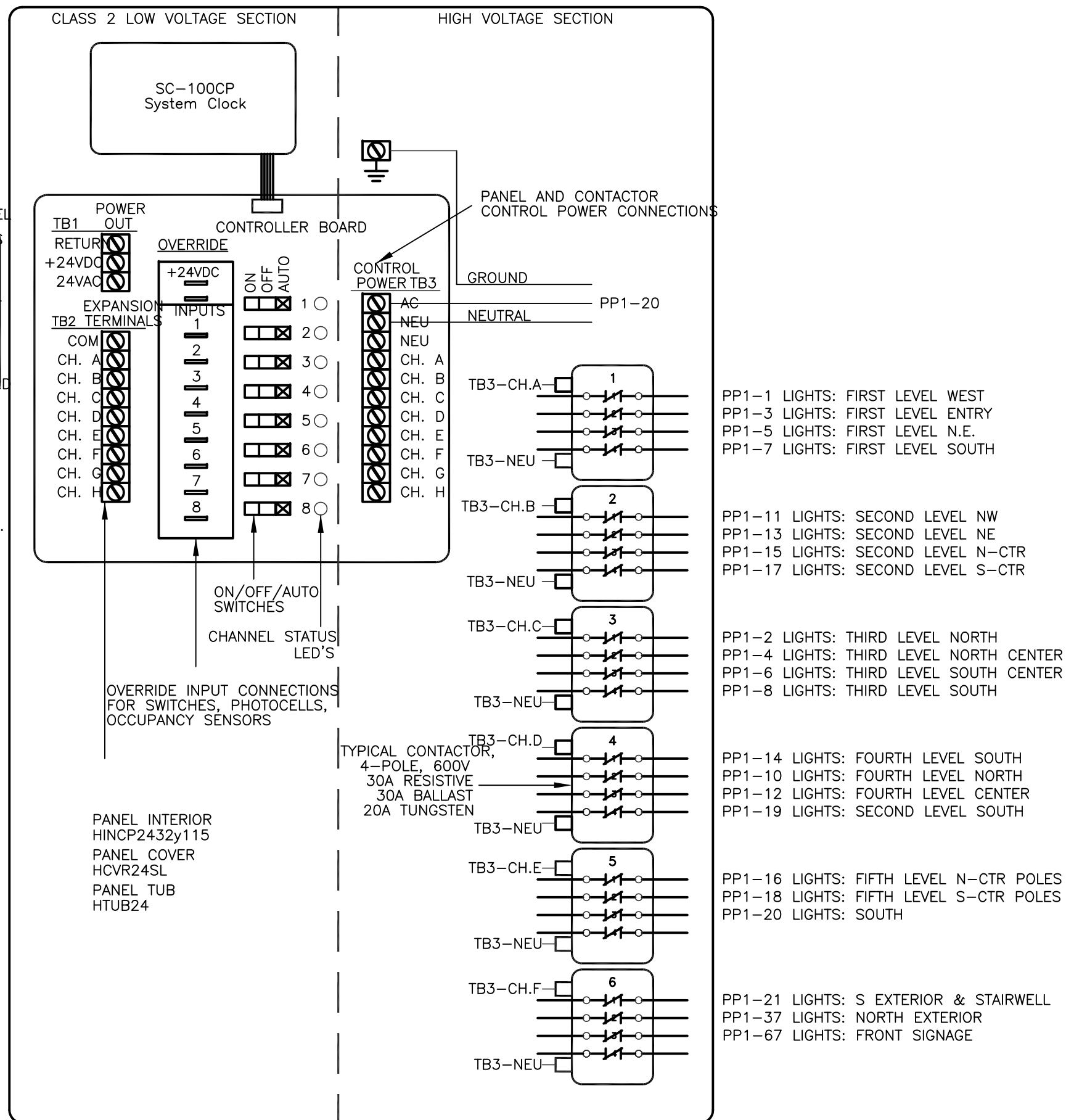
ELECTRICAL LEGEND	
NOTE: SYMBOLS SHOWN ARE STANDARD. VARIATION AND/OR COMBINATION MAY BE USED ON THE PLANS SUCH AS \$ _a (b: SWITCHING DESIGNATION), @ ⁴ (4: CIRCUIT NO.), 30A-2P (30A-2P: 30 AMPERE-TWO POLE), ETC. THIS LIST SHOWS STANDARD SYMBOLS AND ALL MAY NOT APPEAR ON THE PROJECT DRAWINGS; HOWEVER, WHEREVER THE SYMBOL ON THE PROJECT DRAWINGS OCCUR, THE ITEM SHALL BE PROVIDED AND INSTALLED.	
BRANCH CIRCUIT PANELBOARD	
MOTOR	
FUSED SAFETY SWITCH / DISCONNECT	
CIRCUITRY HOMERUN: PANEL LA - CIR. #7	
CONDUIT OR WIRE CONCEALED IN WALL/CLG.	
CONDUIT OR WIRE UNDERFLOOR/UNDERGND.	
CEILING JUNCTION BOX - SURFACE/FLUSH	
DUPLEX RECEPTACLE	
THERMOSTAT	
TELEPHONE OUTLET	
SINGLE POLE SWITCH	
TWO POLE SWITCH	
THREE-WAY SWITCH	
FOUR-WAY SWITCH	
MANUAL MOTOR STARTER	
FLUORESCENT FIXTURE TYPE A	
OPEN STRIP FLUORESCENT FIXTURE	
SURFACE CEILING INCANDESCENT OR H.I.D. FIXTURE	
WALL MOUNTED INCANDESCENT OR H.I.D. FIXTURE	
DOUBLE FACE EXIT SIGN, WALL AND CEILING MOUNTED	
SINGLE FACE EXIT SIGN, WALL AND CEILING MOUNTED	
WALL MOUNTED EMERGENCY LIGHT	
MECHANICAL CONTRACTOR FURNISHED EQUIPMENT	
DRAWING FLAG NOTE	
NIGHT/SECURITY LIGHT - DO NOT SWITCH	
WEATHERPROOF	
A.F.F. ABOVE FINISHED FLOOR	
A.F.G. ABOVE FINISHED GRADE	
GFCI GROUND FAULT CIRCUIT INTERRUPTER	
EM EMERGENCY FUNCTION	
42" MOUNTING HEIGHT - A.F.F. OR A.F.G. TO C.L. HIGH	



SET-UP / OPERATION:
USING CLOCK SCREEN AND KEYPAD, CONFIGURE INPUT #1 AS PHOTOCELL TYPE AND ASSIGN CONTROL TO APPROPRIATE CHANNEL(S).

THIS WILL HOLD OFF ANY CHANNEL SCHEDULED TO TURN ON UNTIL THE PHOTOCELL DETECTS IT IS DARK.

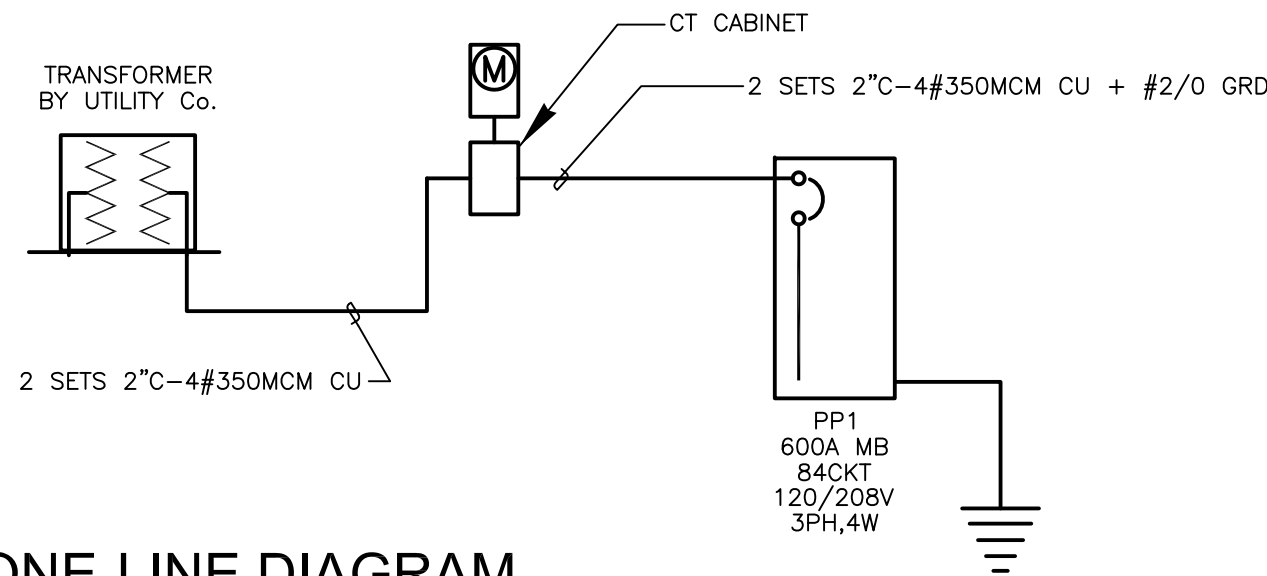
THE BUILDING HAS BEEN OUTFITTED WITH A PROGRAMMABLE LIGHTING CONTROLLER. THE CONTROL OF THE LIGHTS WILL BE DEPENDENT UPON THE PROGRAMMING OF THE CONTROLLER. ANY TIME THAT THE CITY WOULD LIKE THE UPPER FLOOR LIGHTS TO BE TURNED OFF CAN BE PROGRAMMED ACCORDINGLY. ADDITIONALLY THERE ARE LIGHTS ON THE UPPER FLOOR THAT ARE NOT PART OF THE TALL LIGHT STANDARDS AND CAN BE USED TO ILLUMINATE THE UPPER FLOORS AND PROVIDE A SECURITY TYPE LIGHTING AFTER THE TALLER LIGHTS HAVE BEEN TURNED OFF.



Watt Stopper Contactor Panel
Interior Layout/Power Connection

LIGHTING CONTROL WIRING SCHEMATIC

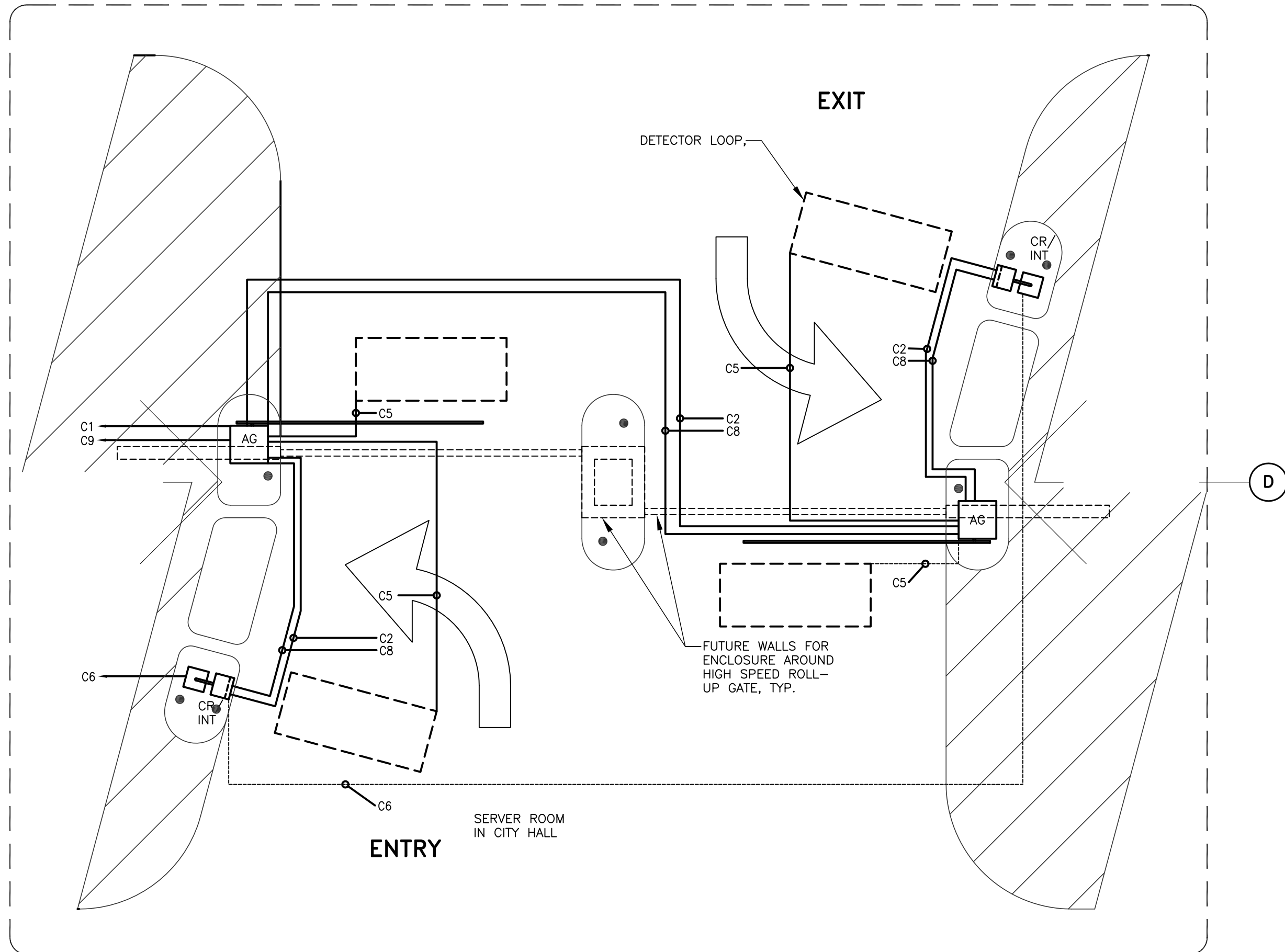
SCALE: NOT TO SCALE



ONE-LINE DIAGRAM

NOT TO SCALE

PROVIDE GROUNDING PER NEC REQUIREMENTS



- NOTE:
- LEVEL 2 - PROVIDE CONDUIT FOR FUTURE HIGH SPEED ROLL-UP GATE
 - LEVEL 3 & 4 - LAYOUT IS FOR FUTURE EQUIPMENT
 - LEVEL 3 & 4 - RUN CONDUIT FOR BOTH FUTURE GATE ARM AND HIGH SPEED ROLL-UP GATE

EQUIPMENT LEGEND	
CR - CARD READER	VD/L - VEHICLE DETECTOR WITH LOOPS
AG - AUTO GATE	INT - REMOTE INTERCOM UNIT
FMS - FACILITY MANAGEMENT SYSTEM	MSM - MULTI-SPACE METER
IM - INTERCOM MASTER UNIT	

CONDUIT LEGEND		
DESIGNATION	SIZE	DEFINITION
C1	3/4"	30 AMP, 120 VOLT CIRCUIT, ACTUAL LOAD IS ~ 2400 WATTS.
C2	1"	POWER CONDUIT FROM EQUIPMENT TO GATE.
C3	2"	208/120 VOLT SINGLE PHASE POWER FEEDER TO BOOTH - MINIMUM 60 AMP CIRCUIT.
C4	3/4"	RIGID STEEL (UNDERGROUND CAN BE PVC).
C5	3/4"	RIGID STEEL LOOP LEAD.
C6	1"	TO INTERCOM MASTER PANEL OR EQUIPMENT TO EQUIPMENT.
C7	2"	FROM BOOTH TO COMMUNICATION PANEL IN ELECTRICAL ROOM.
C8	1"	DATA TO GATE.
C9	1"	FROM FMS TO GATE.
C10	2"	FROM BOOTH TO FMS.

ELECTRICAL NOTES:

- ALL EXPOSED CONDUIT TO BE RIGID GALVANIZED.
- PROVIDE POWER TO ALL ENTRY/EXIT EQUIPMENT FROM PANEL PP1. ANTICIPATED ELECTRICAL LOAD IS 19.2 KW.

ACCESS CONTROL DIAGRAM

NOT TO SCALE

PANEL SCHEDULE - PP1		TYPE: VOLTAGE: ENCLOSURE:	PANELBOARD 120/208 NEMA1	BUS SIZE: MAIN BRKR: MOUNTING:		600 SURFACE	PHASES: WIRES: SC RATING:	3 4 65000	NEUTRAL BUS: YES GROUND BUS: YES
LOAD TYPE	LOAD DESCRIPTION	AMPS POLES	CKT# LOAD	Ø	CKT# LOAD	AMPS POLES	LOAD TYPE	LOAD DESCRIPTION	
LIGHTING	FIRST LEVEL WEST ----	20A 1P	1 1820	A	2 1711	20A 1P	LIGHTING	THIRD LEVEL NORTH ROW ----	
LIGHTING	FIRST LEVEL ENTRANCE ----	20A 1P	3 1392	B	4 1917	20A 1P	LIGHTING	THIRD LEVEL CENTER ROW ----	
LIGHTING	FIRST LEVEL NORTH EAST ----	20A 1P	5 1491	C	6 1704	20A 1P	LIGHTING	THIRD LEVEL CENTER ----	
LIGHTING	FIRST LEVEL SOUTH EAST ----	20A 1P	7 1630	A	8 1704	20A 1P	LIGHTING	THIRD LEVEL SOUTH ROW ----	
LIGHTING	FIRST LEVEL STORAGE & MECH. RM ----	20A 1P	9 986	B	10 1123	20A 1P		SP~1 E. ELV ----	
LIGHTING	SECOND LEVEL NORTH WEST ----	20A 1P	11 1134	C	12 1491	20A 1P	LIGHTING	FOURTH LEVEL CENTER ROW ----	
LIGHTING	SECOND LEVEL NORTH EAST ----	20A 1P	13 1336	A	14 1491	20A 1P	LIGHTING	FORTH LEVEL SOUTH ROW ----	
LIGHTING	SECOND LEVEL NORTH CENTER ----	20A 1P	15 1491	B	16 1180	20A 1P	LIGHTING	FIFTH LEVEL CENTER POLES ----	
LIGHTING	SECOND LEVEL SOUTH CENTER ----	20A 1P	17 1704	C	18 1180	20A 1P	LIGHTING	FIFTH LEVEL CENTER POLES SOUTH ----	
LIGHTING	SECOND LEVEL SOUTH ROW ----	20A 1P	19 1704	A	20 903	20A 1P	LIGHTING	SP~1 CONTROL E. ELV ----	
LIGHTING	SO EXTERIOR BLDG MT & EXT STAIRS ----	20A 1P	21 1680	B	22 1333	----		SP~1 W. ELV ----	
LIGHTING	NORTH EXTERIOR BLDG MT ----	20A 1P	23 1560	C	24 1333	20A 3P		W. ELV PUMP CONTROL ----	
MISCELLANEOUS	ELECTRIC RM HEATER ----	----	25 14410	A	26 1333	20A 3P		W. ELV PUMP EQUIP ROOM EXHAUST FAN ----	
MISCELLANEOUS	ELECTRIC RM HEATER ----	200A 3P	27 14410	B	28 14410	20A 3P		E. ELV CAB LIGHT ----	
MISCELLANEOUS	ELECTRIC RM HEATER ----	----	29 14410	C	30 14410	20A 3P		TELEPHONE BOARD ----	
SPACE	W. ELV PIT LIGHT & RECEPT ----	0A 1P	31 0	A	32 14410	----		SPARE ----	
RECEPTACLE	W. ELEVATOR ROOM LIGHTS AND OUTLET ----	20A 1P	33 280	B	34 1P	0A 1P	SPARE	----	
LIGHTING	ELEVATOR CAB LIGHTS ----	20A 1P	35 200	C	36 280	20A 1P		SPARE ----	
	----	20A 1P	37 1200	A	38 200	20A 1P		----	
	----		39 1176	B	40 200	20A 1P		----	
	----		41 1176	C	42 200	20A 1P		----	
	----	----	43 1333	A	44 1333	----		----	
	----	20A 3P	45 1333	B	46 1333	20A 3P		----	
	----	----	47 1333	C	48 1333	----		----	
	E. ELV HEATER ----	20A 3P	49 200	A	50 200	20A 1P	MISCELLANEOUS	LIGHTING TIMECLOCK ----	
	E. ELV HEATER ----	20A 3P	51 200	B	52 2400	30A 1P		W. ELV SHUNT TRIP ----	
	E. ELV HEATER ----	20A 3P	53 180	C	54 2400	30A 1P	MISCELLANEOUS	ENTRANCE EQUIPMENT ----	
MISCELLANEOUS	IRRIGATION CONTROLLER ----	20A 1P	55 200	A	56 2400	20A 3P		W. ELV HEATER ----	
MISCELLANEOUS	ENTRANCE EQUIPMENT ----	20A 1P	57 200	B	58 2400	20A 3P		W. ELV HEATER ----	
	E. ELV PIT & LIGHT RECEPT ----	15A 1P	59 600	C	60 2400	20A 3P		W. ELV HEATER ----	
PROCESS	E. WALK UP PAY STATION ----	15A 1P	61 600	A	62 2400	30A 1P		2ND FLOOR W. GATE ARM ----	
PROCESS	W. WALK UP PAY STATION ----	15A 1P	63 600	B	64 2400	30A 1P		2ND FLOOR E. GATE ARM ----	
PROCESS	S. WALK UP PAY STATION ----	15A 1P	65 600	C	66 2400	30A 1P	MISCELLANEOUS	4TH FLOOR ACCESS EQUIPMENT ----	
	E. ELV EXHAUST FAN ----	20A 1P	67 200	A	68 1200	20A 1P	LIGHTING	FRONT SIGNAGE ----	
	E. ELV SHUNT TRIP ----	20A 1P	69 200	B	70 200	20A 1P		ACCESS EQUIPMENT ----	
SPARE	SPARE ----	----	71 0	C	72 0	----	SPARE	ACCESS EQUIPMENT ----	
SPARE	ACCESS EQUIPMENT ----	----	73 0	A	74 0	----		NORT--WEST EXTERIOR LIGHTS ----	
SPARE	ACCESS EQUIPMENT ----	----	75 0	B	76 0	----		ACCESS EQUIPMENT ----	
	E. ELV LIGHT & RECEPT ----	20A 1P	77 0	C	20A 1P	----		F.A.C.P./DIALER ----	
SPACE	----	----	79 0	A	80 0	----	SPACE	----	
SPACE	----	----	81 0	B	82 0	----	SPACE	----	
SPACE	----	----	83 0	C	84 0	----	SPACE	----	
LOADS BY TYPE:				LOADS BY PHASE:					
LOAD TYPE	CONNECTED LOAD (VA)	DEMAND FACTOR	DEMAND LOAD (VA)	PHASE	CONNECTED LOAD (VA)	CONNECTED LOAD (AMPS)	BALANCE (PERCENT)		
LIGHTING	35132.00	1.25	43915.00	A	53919.50	449.33	A-B: 98		
KITCHEN	0.00	0.00	0.00	B	52845.50	440.38	B-C: 98.7		
PROCESS	2400.00	1.00	2400.00	C	53520.50	446.00	C-A: 99.3		
RECEPTACLES	1140.00	1.00	1140.00						
MECH HEATING	12000.00	1.00	12000.00	TOTAL/AVERAGE	160286.00	445.24	98.7		
MECH COOLING	400.00	1.00	400.00						
MECH YEAR ROUND	0.00	1.00	0.00	NOTES:					
APPLIANCE	0.00	1.00	0.00	1. THE LARGEST CONNECTED MOTOR LOAD IS INCLUDED IN MECHANICAL, PROCESS, OR MOTOR LOADS.					
MISCELLANEOUS	106262.00	1.00	106262.00						
MOTOR	2352.00	1.00	3528.00						
SPARE	600.00	1.00	600.00						
LARGEST MOTOR 1	ABOVE	0.25	294.00						
TOTAL	160286.00		168962.00						

MECHANICAL EQUIPMENT SCHEDULE												
COMB: MAG:	COMBINATION MOTOR STARTER	NR: P/I:	NONE REQUIRED PLUG-IN UNIT	CONT: W/U:	CONTRACTOR MANUAL MOTOR STARTER SUPPLIED WITH UNIT:							
UNIT NO	FUNCTION (NOTES)	LOAD	VOLTS	Ø	FULL LOAD AMPS	BRANCH CIRCUIT CONDUIT SIZE	CIRCUIT NO.	WIRE SIZE	GRND WIRE SIZE	BRKR SIZE	START	DISC FUSE
EF 1	EXHAUST FAN EF-1	100W	120	1	0.83	1/2"	2	12	12	15	\$	N/R
EW 1	ELECT WALL HEATER UNIT EWH-1	4.0 KW	208	3	11.1	1/2"	3	12	12	20	NA	30 15
SP 1	SUMP PUMP SP-1	.5 HP	120	1	9.8	1/2"	2	12	12	15	WU	\$

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CITY OF
GRAND JUNCTION
ROOD AVENUE
PARKING STRUCTURE

ELECTRICAL PLANS
SCHEDULES
DETAILS

RECORD DRAWINGS

REVISIONS
CONST RECORD

DATE:
9/26/08

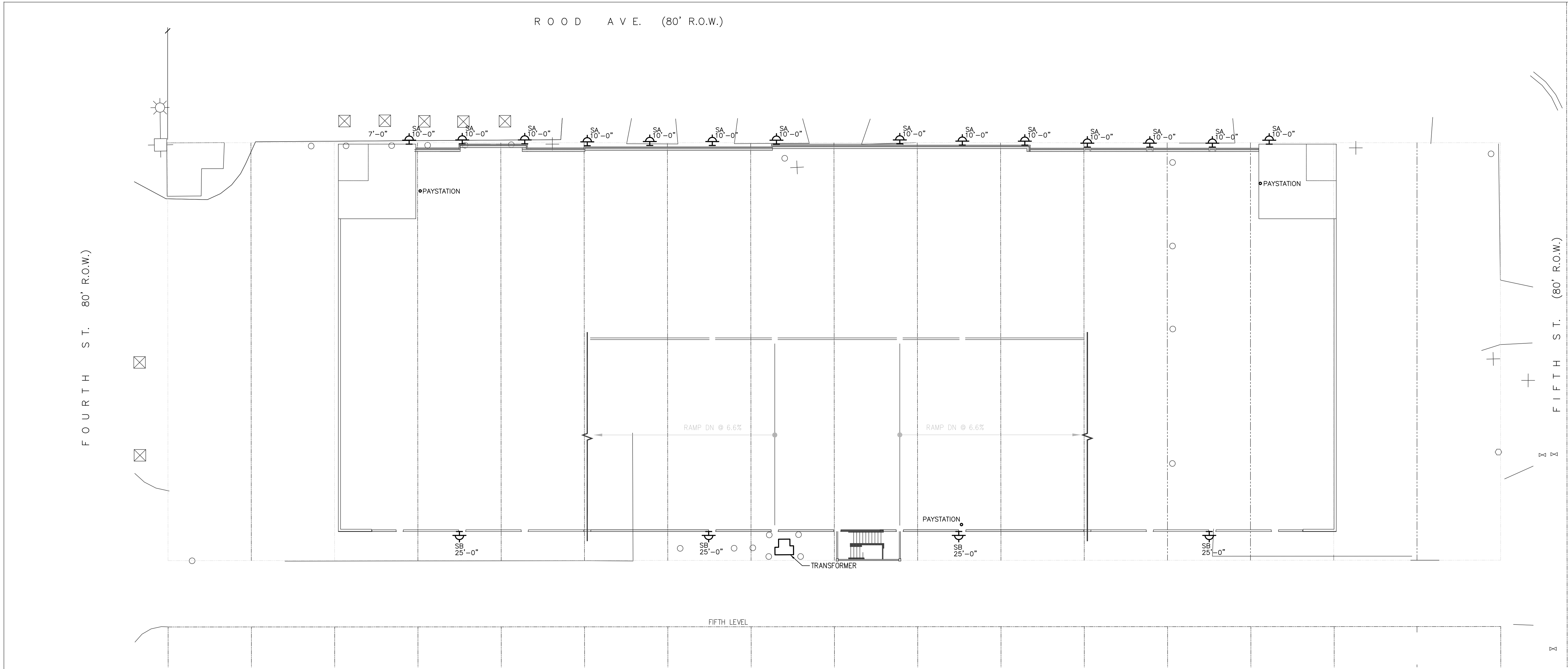
Date: 08/30/06

Project #: 05-148

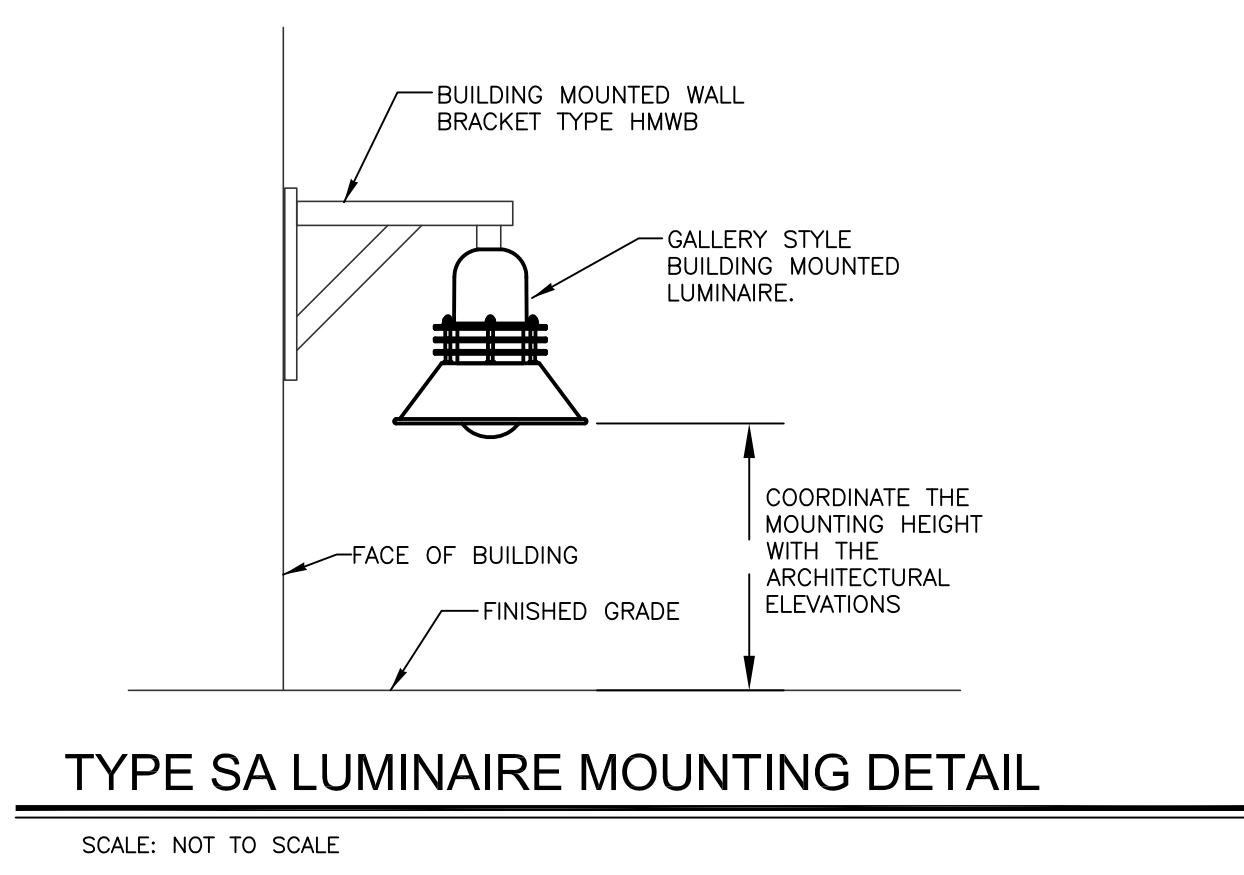
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E1-5



ELECTRICAL - SITE PLAN
SCALE: 1/16"=1'-0"
NORTH



TYPE SA LUMINAIRE MOUNTING DETAIL
SCALE: NOT TO SCALE

LUMINAIRE SCHEDULE					
TYPE	MANUFACTURER CATALOG NO.	MANUFACTURER CATALOG NO.	VOLTAGE MOUNTING # OF LAMPS	BALLAST LAMP TYPE LAMP CAT. #	DESCRIPTION
SA	STERNBERG LRR24-SC-HM WALL	ENGINEER APPROVED EQUIVALENT	MULTI-TAP SURFACE WALL 1	HI POWER FACTOR METAL HALIDE 70MH	23.5"Hx24"W LR GALLERY SERIES ARM MOUNTED, VINTAGE DOWN LIGHT FIXTURE WITH GLOW RINGS SAG GLASS, SHADE WITH WHITE REFLECTIVE UNDERSIDE.
SB	HUBBELL LIGHTING TRP-175HB-1	ENGINEER APPROVED EQUIVALENT	MULTI-TAP SURFACE WALL 1	HI POWER FACTOR METAL HALIDE 175MH	7.08"Hx9.5"Dx16.5"W CAST ALUMINUM HOUSING AND DOOR, TEMPERED, IMPACT RESISTANT CLEAR GLASS LENS, DARK BRONZE POWDER COAT ARCHITECTURAL FINISH, WALL PACK
H	KIM LIGHTING LTV40-SP-100MH120-TR10	ENGINEER APPROVED EQUIVALENT	120 RECESSED FLOOR 1	HI POWER FACTOR METAL HALIDE 100MH	11-5/8"DIA, COMPOSITE HOUSING DIRECTIONAL MARKER, BRONZE DOME, HORIZONTAL LOUVER AND DOME TOP, CLEAR BOROSILICATE GLASS LENS
J	LITHONIA KSF1-250M-R4SC-TB-SP09-LPI-DDB	ENGINEER APPROVED EQUIVALENT	120 25' POLE 1	HI POWER FACTOR METAL HALIDE 250MH	21.25"Lx15.46"Wx7.25"D AREA LIGHT, ALUMINUM RECTILINEAR HOUSING, DARK BRONZE POWDER COAT, .125" THICK IMPACT RESISTANT LENS
K	LITHONIA LP6H-70M-608A-120-HEB	ENGINEER APPROVED EQUIVALENT			CAN LIGHT FIXTURE

- NOTES:
- ELECTRICAL CONTRACTOR SHALL ORDER ALL HARDWARE FOR COMPLETE MOUNTING OF EACH LUMINAIRE.
 - ALL POLES TO BE STRAIGHT SQUARE STEEL, COLOR TO MATCH LUMINAIRES. POLE SHAFT WILL BE RATED FOR WIND GUSTS OF 100 MILES/HOUR
 - ALL FIXTURES TO COMPLY WITH LIGHT TRESPASS AND DARK SKY CODES PER CITY ORDINANCES.
 - NOTIFY ENGINEER OF ANY OBSTRUCTIONS TO POLE PLACEMENT IMMEDIATELY BEFORE PROCEEDING.
 - ORDER ALL LUMINAIRES WITH MULTI-TAP BALLAST AND FIELD VERIFY AVAILABLE VOLTAGE FOR EACH LUMINAIRE PRIOR TO INSTALLATION.
 - COORDINATE ALL LUMINAIRE MOUNTING WITH THE FACE OF THE BUILDING AND THE ARCHITECTURAL PLANS.

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CITY OF
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ROOD AVENUE
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ELECTRICAL
SITE PLAN

REVISIONS

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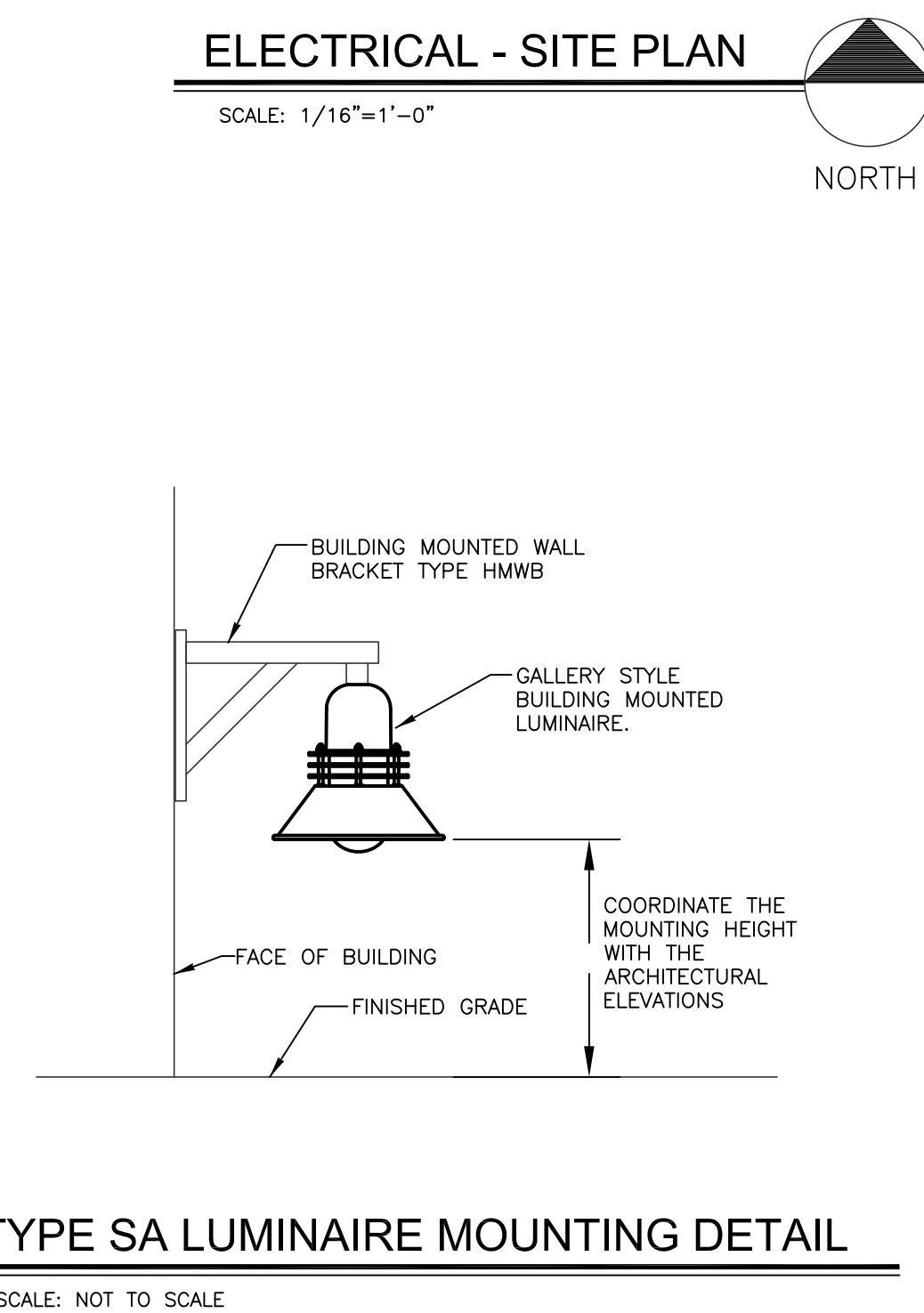
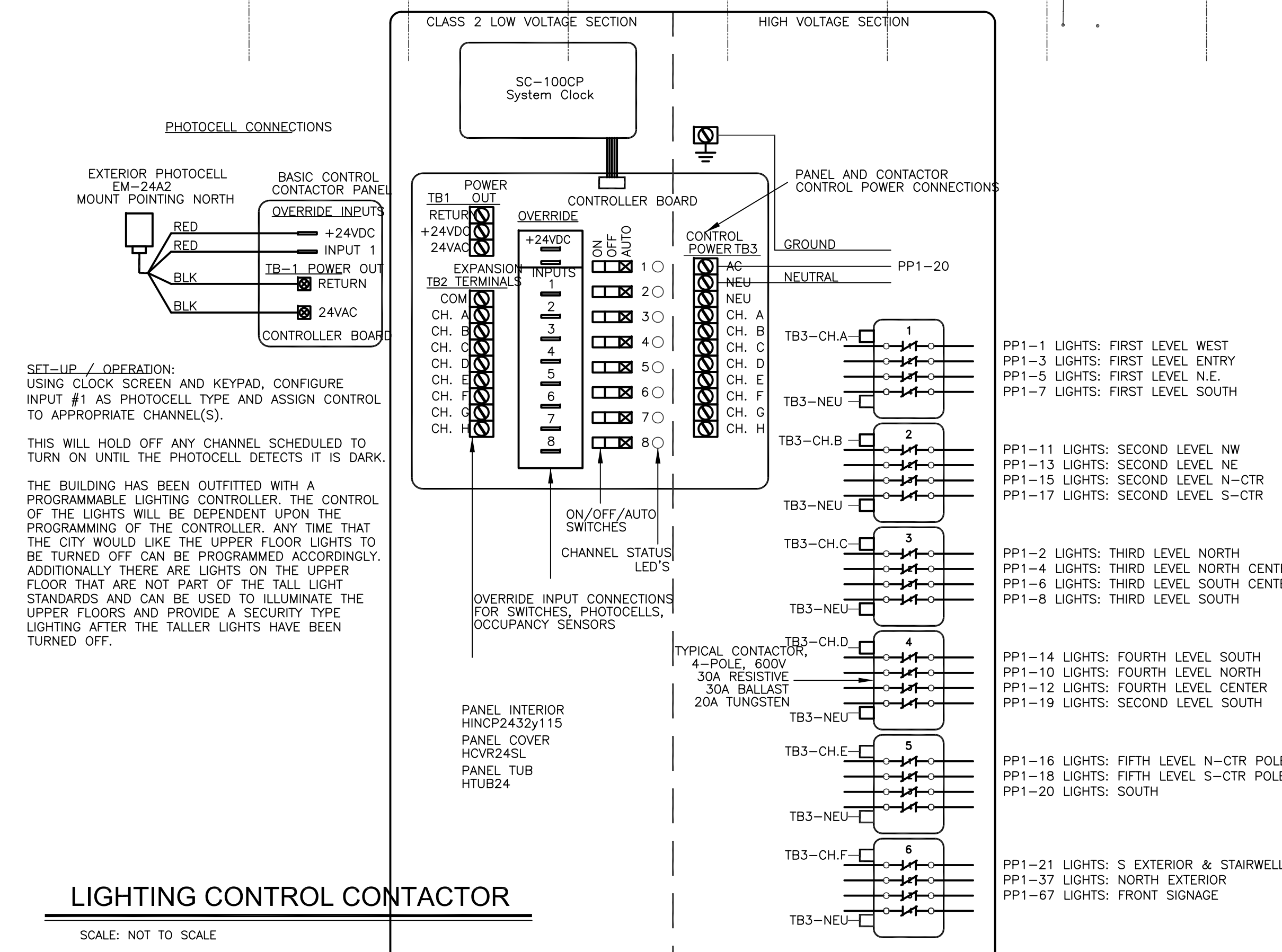
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Project #: 05-148

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Sheet #:

ES1-1



LUMINAIRE SCHEDULE					
TYPE	MANUFACTURER CATALOG NO.	MANUFACTURER CATALOG NO.	VOLTAGE MOUNTING # OF LAMPS	BALLAST LAMP TYPE LAMP CAT. #	DESCRIPTION
SA	STERNBG LRR24-SG-HM WALL	ENGINEER APPROVED EQUIVALENT	MULTI-TAP SURFACE WALL	H POWER FACTOR METAL HALIDE 70MA	23.5"Hx24"W LR GALLERY SERIES ARM MOUNTED, VINTAGE DOWN LIGHT FIXTURE WITH GLOW RINGS SG GLASS, SHADE WITH WHITE REFLECTIVE UNDERSIDE.
SB	HUBBELL LIGHTING TR75H5B-1	ENGINEER APPROVED EQUIVALENT	MULTI-TAP SURFACE WALL	H POWER FACTOR METAL HALIDE 175MH	7.08"Hx9.5"Dx16.5"W CAST ALUMINUM HOUSING AND DOOR, TEMPERED, IMPACT RESISTANT CLEAR GLASS LENS, DARK BRONZE POWDER COAT ARCHITECTURAL FINISH, WALL PACK
H	KIM LIGHTING LTV40-SQ-100MH120-TR10	ENGINEER APPROVED EQUIVALENT	120 RECESSED FLOOR 1	H POWER FACTOR METAL HALIDE 100MH	11-5/8" DIA. COMPACT HOUSING DIRECTONAL MARKER, BRONZE DOME, HORIZONTAL LOWER AND DOME TOP, CLEAR BOROSILICATE GLASS LENS
J	LITHONIA KSF1-175M-RASC-TB SD09-PL-DG	ENGINEER APPROVED EQUIVALENT	120 1/4 POLE	H POWER FACTOR METAL HALIDE 175MH	21.25"Lx15.46"Wx27.5"D AREA LIGHT, ALUMINUM RECTILINEAR HOUSING, DARK BRONZE POWDER COAT, 125" THICK IMPACT RESISTANT LENS

- NOTES:**
1. ELECTRICAL CONTRACTOR SHALL ORDER ALL HARDWARE FOR COMPLETE MOUNTING OF EACH LUMINAIRE.
 2. POLES TO BE STRAIGHT SQUARE STEEL, COLOR TO MATCH LUMINAIRES. POLE SHAFT WILL BE RATED FOR WIND GUSTS OF 100 MILES/HOUR.
 3. ALL FIXTURES TO COMPLY WITH LIGHT TRESPASS AND DARK SKY CODES PER CITY ORDINANCES.
 4. NOTIFY ENGINEER OF ANY OBSTRUCTIONS TO POLE PLACEMENT IMMEDIATELY BEFORE PROCEEDING.
 5. ORDER ALL LUMINAIRES WITH MULTI-TAP BALLAST AND FIELD VERIFY AVAILABLE VOLTAGE FOR EACH LUMINAIRE PRIOR TO INSTALLATION.
 6. COORDINATE ALL LUMINAIRE MOUNTING WITH THE FACE OF THE BUILDING AND THE ARCHITECTURAL PLANS.

SITE LIGHTING PLAN	REMARKS:
FACILITIES & SITE DEVELOPMENT OF THIS SITE ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CITY OF GRAND JUNCTION CONSTRUCTION SPECIFICATIONS AND STANDARDS USING CITY OF GRAND JUNCTION CONSTRUCTION DETAILS. ALL OUTSIDE LIGHT SOURCES SHALL CONFORM TO SECTION 7.2F OF GRAND JUNCTION ZONING & DEVELOPMENT CODE. PARKING LOT LIGHTS SHALL OPERATE DUSK TO PRE-SET TIME SO THAT THEY EXTINGUISH ONE HOUR AFTER CLOSE OF BUSINESS OR N.L.T. 10P.M. BUILDING MOUNTED SECURITY LIGHTS WILL OPERATE FROM DUSK TO DAWN.	
	APPROVED BY CITY OF GRAND JUNCTION ENGINEER DATE
	APPROVED BY PLANNING DEPARTMENT DATE

