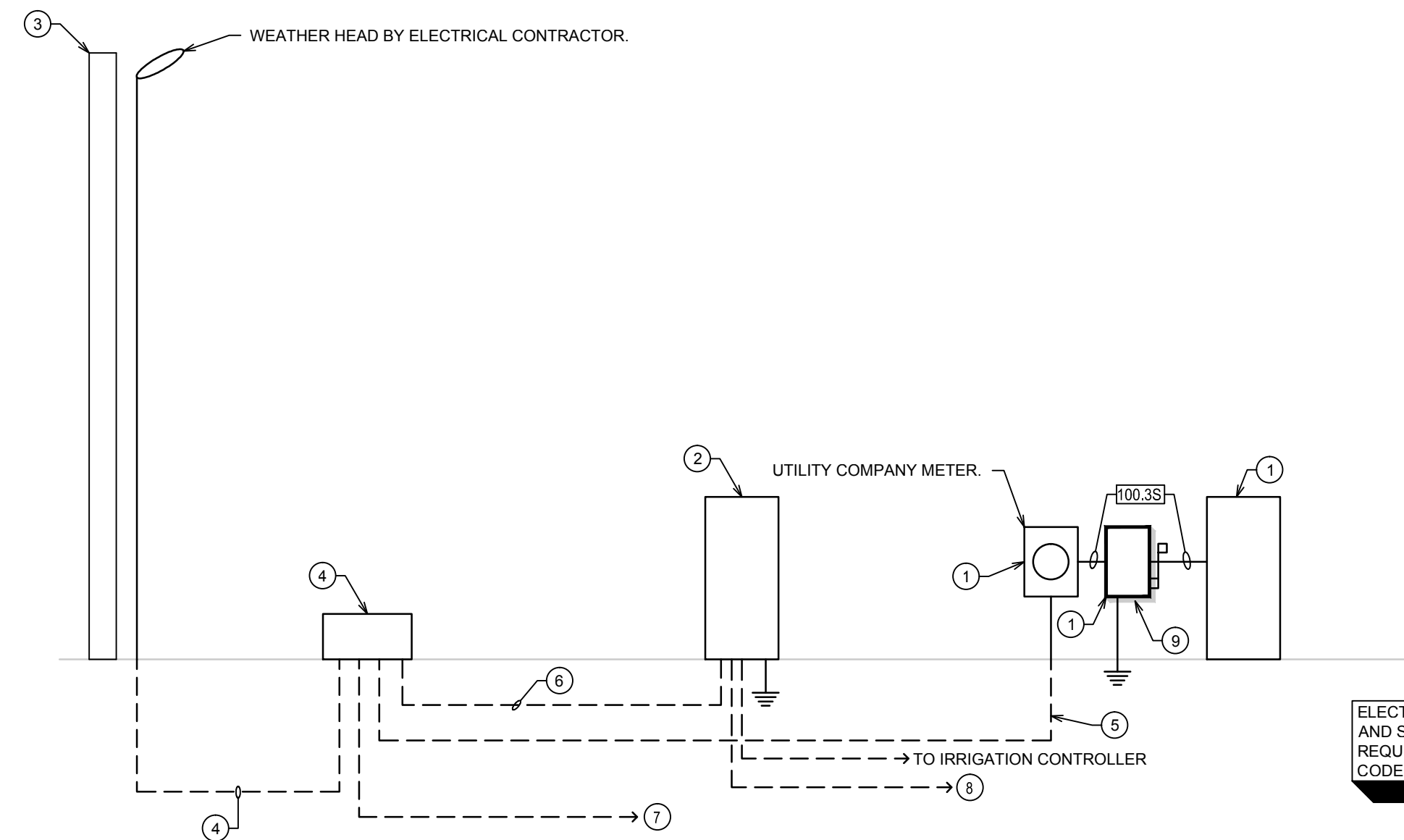


B SYSTEM GROUNDING DETAIL
SCALE: N.T.S.



A RISER DIAGRAM
SCALE: N.T.S.
120/240V, 1Ø, 3WIRE

CU FEEDER SCHEDULE

FEEDER IDENT.	CONDUCTORS		GROUND SIZE PER SET	ISOLATED GRD. SIZE PER SET	CONDUIT SIZE PER SET
	SETS	QUANT. PER SET			
20.X	1	SEE NOTE 'b'	#12	#12	1/2"
30.X	1	SEE NOTE 'b'	#10	#10	1/2"
40.X	1	SEE NOTE 'b'	#8	#10	3/4"
50.X	1	SEE NOTE 'b'	#6	#10	1"
60.X	1	SEE NOTE 'b'	#4	#8	1 1/4"
70.X	1	SEE NOTE 'b'	#4	#8	1 1/4"
80.X	1	SEE NOTE 'b'	#3	#8	1 1/4"
90.X	1	SEE NOTE 'b'	#2	#6	1 1/4"
100.X	1	SEE NOTE 'b'	#1	#6	1 1/2"
150.X	1	SEE NOTE 'b'	#1/0	#6	2"
200.X	1	SEE NOTE 'b'	#3/0	#6	2"
225.X	1	SEE NOTE 'b'	#4/0	#4	2-1/2"
250.X	1	SEE NOTE 'b'	#250 KCMIL	#4	2-1/2"
300.X	1	SEE NOTE 'b'	#350 KCMIL	#4	3"
400.X	1	SEE NOTE 'b'	#500 KCMIL	#3	3-1/2"
450.X	2	SEE NOTE 'b'	#4/0	#2	2-1/2"
500.X	2	SEE NOTE 'b'	#250 KCMIL	#2	2-1/2"
600.X	2	SEE NOTE 'b'	#350 KCMIL	#1	3"
800.X	2	SEE NOTE 'b'	#500 KCMIL	#1/0	3-1/2"
1200.X	4	SEE NOTE 'b'	#350 KCMIL	#3/0	3"
1600.X	5	SEE NOTE 'b'	#400 KCMIL	#4/0	3-1/2"

FEEDER SCHEDULE NOTES:

a. THIS PROJECT MAY NOT REQUIRE ALL FEEDER TYPES LISTED IN THIS SCHEDULE.

b. THE NUMBER OF CONDUCTORS WILL BE BASED ON THE FOLLOWING NOTATION AT THE END OF EACH FEEDER TAG:

EXAMPLE: XXXX.X

XXXX.XS: INDICATES THE SERVICE FEEDER SIZE, AND NUMBER OF CONDUCTORS. NO GROUND SHALL BE REQUIRED FOR SERVICE FEEDERS.

XXXX.2: INDICATES (2) HOT CONDUCTORS (OR 1 HOT + 1 NEUTRAL) FOR SINGLE PHASE CONNECTIONS

XXXX.3: INDICATES (3) HOT CONDUCTORS FOR THREE PHASE CONNECTIONS

XXXX.4: INDICATES (3) HOT CONDUCTORS & (1) NEUTRAL CONDUCTOR. FOR THREE PHASE CONNECTIONS

RISER NOTES:

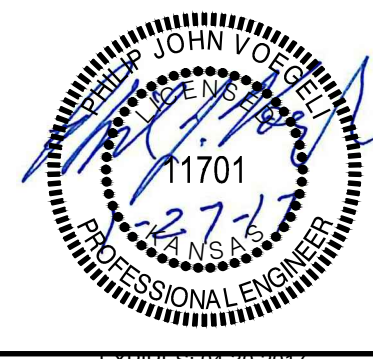
- NEW TRAFFIC SIGNAL CONTROLLER. DISCONNECT SWITCH AND METER. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
- NEW MILBANK PEDESTAL FOR IRRIGATION AND ARTWORK POWER. SEE DETAIL A/E2 FOR ADDITIONAL INFORMATION. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
- EXISTING POLE TO REMAIN. ROUTE CONDUIT UP POLE AND PROVIDE CONDUIT WITH WEATHER HEAD PER UTILITY COMPANY STANDARDS.
- NEW 3" CONDUIT WITH PULLWIRE FOR PRIMARY ELECTRICAL SERVICE TO UTILITY COMPANY TERMINAL CABINET. VERIFY ALL REQUIREMENTS PRIOR TO ROUGH-IN.
- NEW 3" CONDUIT WITH PULLWIRE FOR PRIMARY ELECTRICAL SERVICE TO TRAFFIC SIGNAL CONTROLLER FROM UTILITY COMPANY TERMINAL CABINET. VERIFY ALL REQUIREMENTS PRIOR TO ROUGH-IN.
- NEW 3" CONDUIT WITH PULLWIRE FOR PRIMARY ELECTRICAL SERVICE TO MILBANK PEDESTAL FROM UTILITY COMPANY TERMINAL CABINET. VERIFY ALL REQUIREMENTS PRIOR TO ROUGH-IN.
- NEW 2" CONDUIT WITH PULLWIRE FOR PRIMARY ELECTRICAL SERVICE TO STREET LIGHTING FROM UTILITY COMPANY TERMINAL CABINET. VERIFY ALL REQUIREMENTS PRIOR TO ROUGH-IN.
- NEW 1" CONDUIT WITH PULLWIRE FOR FUTURE ARTWORK. CAP AND MARK AS SHOWN ON PLANS. VERIFY ALL REQUIREMENTS PRIOR TO ROUGH-IN.
- 100/2P/240/3R/SE RATED HEAVY DUTY. FUSED AS REQUIRED.

SYMBOL LIST

SYMBOL	DESCRIPTION	MOUNTING	
(A)	FLUORESCENT FIXTURE & FIXTURE LETTER	CEILING	
(A)	FLUORESCENT FIXTURE & FIXTURE LETTER	CEILING	
(A) (A)	INCAND. OR H.I.D. FIXTURE & FIXT. LETTER	SURF./RECESSED	
(A) (A)	INCAND. OR H.I.D. FIXTURE & FIXT. LETTER	WALLBRACKET	
(A) (A)	EXIT FIXT. - SHADING DENOTES FACE(S)	CEIL./WALL	
(A)	GFCl DUPLEX GROUNDED RECEPTACLE	1'-3" AFF	
(A)	DUPLEX GROUNDED RECEPTACLE	1'-3" AFF	
(A)	EXTERIOR GFCl RECEPT. WEATHERPROOF	1'-3" AFF	
(A)	SPECIAL OUTLET. SEE SCHEDULE OR AS NOTED		
(A)	OCCUPANCY SENSOR. SEE SCHEDULE OR AS NOTED		
(A)	TELEPHONE OUTLET (P=PAY, 44") (W= 44")	1'-3" AFF	
(A)	SWITCHES (1-POLE, 3-WAY, 4-WAY, PILOT, KEY)	4'-0" TO TOP	
(A)	JUNCTION BOX		
(A)	FUSTAT		
(A)	SPECIAL DEVICE AS NOTED ON PLAN		
(A)	BRANCH CIRCUIT PANEL & PANEL DESIG.	6'-6" TO TOP	
(A)	H.D. SAFETY SWITCH (AMPS, POLE, VOLTAGE)	6'-6" TO TOP	
(A)	STARTER (SIZE, POLE, VOLTAGE)	6'-6" TO TOP	
(A)	PLAN NOTE		
(A)	MOTOR		
(A)	CONDUIT RUN W/ CONDUCTORS SEE NOTE #7	CEIL./WALL	
(A)	CONDUIT RUN 2 CIRCUIT, SEE NOTE #7	EARTH/FLOOR	
(A)	PARTIAL HOMERUN (MULTIPLE LOAD LOCATIONS)		
(A)	FEEDER 10.3 3ØA CIRCUIT SEE NOTE #7		
(A)	CIRCUIT SUPPLIED FROM EMERGENCY SYSTEM		
(A)	FEEDER IDENTIFICATION, SEE SCHEDULE		
(A)	CT	SEE NOTE #8	
(A)	WP	WEATHERPROOF	
(A)	EM	ITEM SUPPLIED FROM EMERGENCY SYSTEM	
(A)	a,b,c	INDICATES SWITCHING SCHEME	
(A)	(A)	DOUBLE DUPLEX RECEPTACLE	1'-3" AFF
(A)	(A)	PHONE/DATA OUTLET	1'-3" AFF
(A)	(A)	DATA OUTLET	1'-3" AFF
(A)	(A)	CATV OUTLET	1'-3" AFF

GENERAL NOTES

- VERIFY ALL OUTLET LOCATIONS ON THE JOB PRIOR TO ROUGH-IN.
- REFER TO RELATED ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS FOR RELATED INFORMATION.
- REFER TO THE SPECIFICATIONS FOR DATA NOT ON THE DRAWINGS.
- COORDINATE OUTLET BOX LOCATIONS WITH MASONRY TO MINIMIZE CUTTING OF BRICK OR BLOCK.
- ALL MOUNTING HEIGHTS TO BOTTOM OF ITEM UNLESS OTHERWISE NOTED.
- E.C. SHALL REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR THE REQUIREMENTS ASSOCIATED WITH WIRING AND CONNECTION OF INTERLOCKING AND CONTROLS OF MECHANICAL UNITS AND THERMOSTAT LOCATIONS.
- CONDUIT RUN W/ CONDUCTORS AS INDICATED, CONDUIT SIZE AS REQUIRED. CONDUIT RUN TO PANEL DEVICE SIZE AS INDICATED (AMP/ POLE). CIRCUIT WITHOUT INDICATION IS ROUTED TO 2ØA, 1P, BREAKER. CONDUCTOR COUNT IS NOT SHOWN ON THE DRAWINGS FOR #12 SIZE CONDUCTORS. ELECTRICAL CONTRACTOR SHALL PROVIDE NUMBER OF CONDUCTORS AS REQUIRED FOR CIRCUITING, SWITCHING AND/OR CONTROL AS REQUIRED. ALL REQUIREMENTS OF THE CURRENT NATIONAL ELECTRICAL CODE SHALL BE FOLLOWED FOR CONDUIT FILL AND CONDUCTOR DE-RATING IF APPLICABLE. ALL CONDUITS THIS PROJECT TO BE A MINIMUM 1" UNLESS NOTED OTHERWISE.
- "CT" INDICATED ADJACENT TO DEVICE INDICATES DEVICE IS MOUNTED ABOVE BACKSPASH OF COUNTER TOP. VERIFY EXACT HEIGHT WITH ARCHITECTURAL PLANS AND ELEVATIONS.
- A GROUND CONDUCTOR SIZED PER N. E. C. ARTICLE 250 IS REQUIRED IN ALL POWER, RECEPTACLE, AND LIGHTING CIRCUITS. GROUND CONDUCTORS ARE NOT SHOWN ON DRAWINGS.



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Drawing File: L:\ICE - Archives\2013\1113.00 - 015 - Douglas Street Lighting\Electrical Files\1113.00 - E3.dwg
Project No. 11-07-E650 CAPITAL IMPROVEMENT PROJECT
Design: PV
Drawn: CK
Approved: PV
Scale: NOTED
Douglas Paving
Sta. 23 + 75.00 to 29 + 50.00
DOUGLAS - WASHINGTON TO GROVE

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JANUARY, 2017
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