VOLTAGE DROP

VOLTAGE DROP ORANGECRES VOLTAGE 480 ALLOWED VOLTAGE DROP:
WALKWAY EAST WATTAGE 150 3 %
WALKWAY LIGHTS HPS LAMP 16'MH 14.40 VOLTS
04-Mar-94 CONDR SIZE# 12 OHMS/FOOT 0.00200

FIXTURE #	DISTANCE	VOLT DROP	%
10		0.0000	
9	80	1.0440	
8	95	1.1020	
7	75	0.7613	
6	90	0.7830	
5	90	0.6525	
4	90	0.5220	
3	130	0.5655	
2	90	0.2610	
1	90	0.1305	
0		0.0000	
		5.8218 VOLTS DROP	
		1.2129 % DROP	

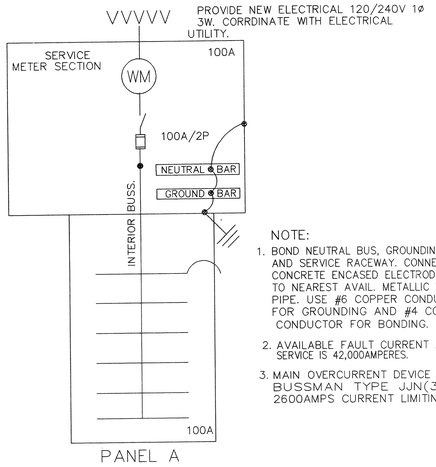
VOLTAGE DROP ORANGECRES VOLTAG 240 ALLOWED VOLTAGE DROP:
WALKWAY WEST WATTAGE 150 3 %
POLE MOUNTED LIGHTS HPSLAMP 16' MH 7.20 VOLTS
04-Mar-94 CONDR SIZE# 12 OHMS/FOOT 0.00200

FIXTURE #	DISTANCE	VOLT DROP	%
10		0.0000	
9	50	0.6525	
8	120	1.3920	
7		0.0000	
6	90	0.7830	
5	100	0.7250	
4	120	0.6960	
3	95	0.4133	
2		0.0000	
1	100	0.1450	
0		0.0000	
		4.8068 VOLTS DROP	
		2.0028 % DROP	

VOLTAGE DROP VOLTAGE 240 ALLOWED VOLTAGE DROP:
PLAY AREA LITES WATTAGE 1000 3 %
POLE MOUNTED LIGHTS HPSLAMP 30'MH 7.20 VOLTS
04-Mar-94 CONDR SIZE# 12 OHMS/FOOT 0.00200

FIXTURE #	DISTANCE	VOLT DROP	%
5		0.0000	
4		0.0000	
3		0.0000	
2	230	4.4467	
1	265	2.5617	
		7.0083 VOLTS DROP	
		2.9201 % DROP	

RUN	TYPE	COND-UCTOR	A.C. RESIST. /100'	VOLTS	AMPS/LEG	DISTANCE	VOLTAGE DROP	% VOLTAGE DROP
PAN A – 5 HP PUMP	CU	2	0.00019	240	15.2	750	4.33	1.81



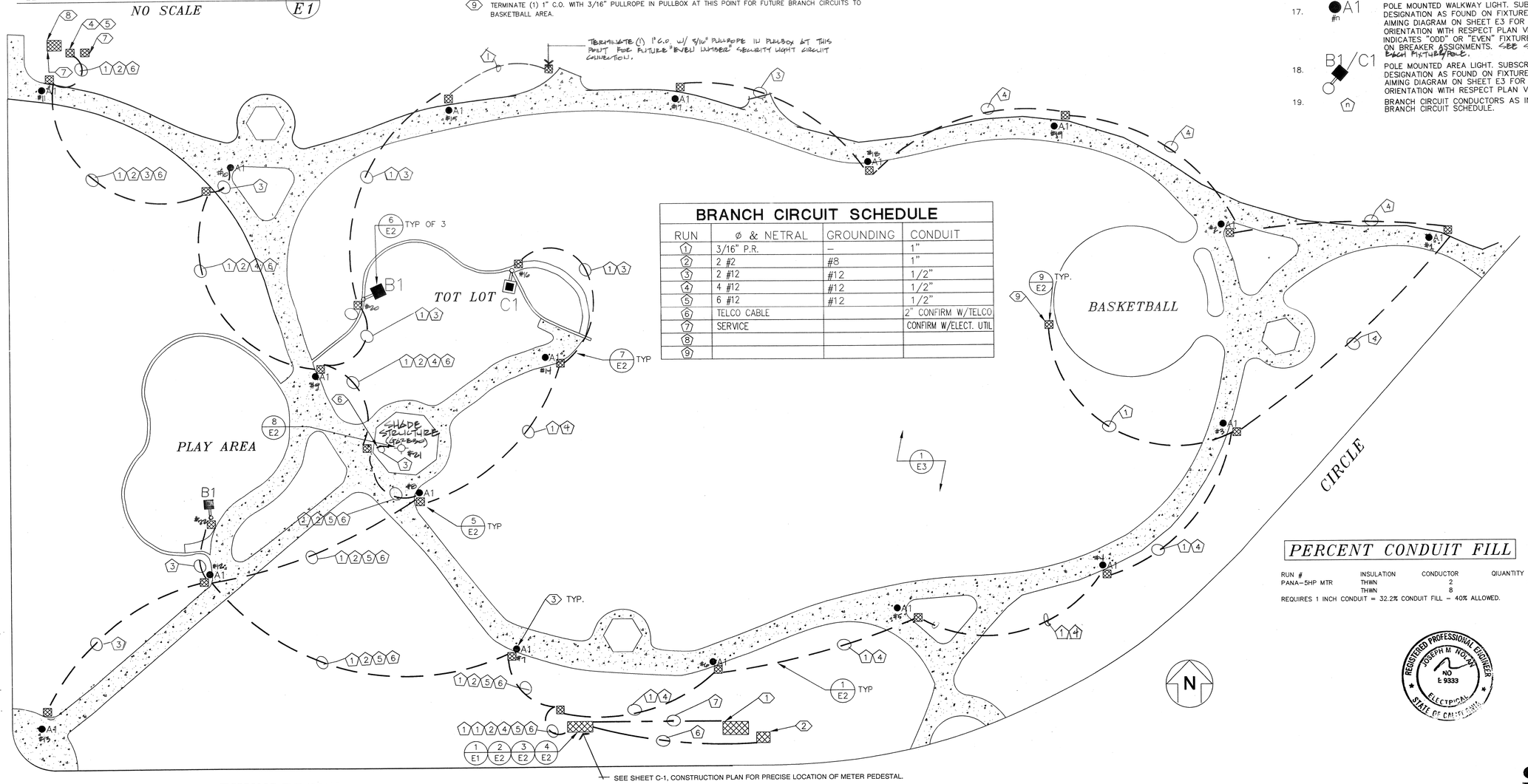
NOTE:
1. BOND NEUTRAL BUS, GROUNDING BUS AND SERVICE RACEWAY. CONNECT TO CONCRETE ENCASED ELECTRODE AND TO NEAREST AVAIL. METALLIC WATER PIPE. USE #6 COPPER CONDUCTOR FOR GROUNDING AND #4 COPPER CONDUCTOR FOR BONDING.
2. AVAILABLE FAULT CURRENT AT THE SERVICE IS 42,000AMPERES.
3. MAIN OVERCURRENT DEVICE TO BE BUSSMAN TYPE JJN(300V) 2600AMPS CURRENT LIMITING.

A.C. SINGLE LINE DIAGRAM (1/E1)
NO SCALE

Key Notes

1. EXISTING ELECTRICAL UTILITY MANHOLE. COORDINATE NEW SERVICE LATERAL WITH CITY OF RIVERSIDE UTILITY.
2. EXISTING TELEPHONE UTILITY PEDESTAL. COORDINATE NEW TELCO SERVICE WITH SERVING TELEPHONE CO.
3. NOTE: ALL POLE LOCATIONS ARE TO BE SPOTTED IN THE FIELD BY CONTRACTOR'S SURVEYOR BASED UPON LOCATIONS SHOWN ON SHEET C-1 AND THE AIMING DIAGRAM ON SHEET E-3 OF THE BID DOCUMENTS . IF IF THERE ARE DISCREPENCIES THE CONTRACTOR IS TO NOTIFY THE ELECTRICAL ENGINEER PRIOR TO COMMENCING THE WORK.
4. PROVIDE (1) 1" C.O. WITH 3/16" PULLROPE IN PULLBOX TO THIS POINT FOR FUTURE BRANCH CIRCUITS TO UPPER PARK AREA. REFERENCE BRANCH CIRCUIT SCHEDULE.
5. TERMINATE 2#2 1#8GRD 1"C TO THIS LOCATION FOR IRRIGATION PUMP TO BE HOOKED UP BY PUMP MAN. REF BRANCH CIRCUIT SCHEDULE. CONFIRM PERCISE LOCATION WITH CITY.
6. RUN BRANCH CIRCUIT FOR SHELTER LIGHT, UP OUTSIDE OF SHELTER AND ON INSIDE ROOF BEAMS. SUPPORT AT 8' INTERVALS.
7. TERMINATE CONDUIT FOR TELCO. COORDINATE CONDUIT SIZE, SPACING, & BURIAL DEPTH WITH TELCO. ELECTRICAL CONTRACTOR TO APPLY FOR TELCO SERVICE. CONFIRM PRECISE LOCATION WITH CITY.
8. APPROXIMATE LOCATION OF IRRIGATION CONTROLLER. CONFIRM WITH CITY.
9. TERMINATE (1) 1" C.O. WITH 3/16" PULLROPE IN PULLBOX AT THIS POINT FOR FUTURE BRANCH CIRCUITS TO BASKETBALL AREA.

NOTE:
1. SEE DETAIL 'C', SHEET C-5 FOR CROSS SECTION OF INSTALLATION LAYOUT OF IRRIGATION LATERAL, IRRIGATION MAINLINE AND ELECTRICAL CONDUIT IN RELATIONSHIP TO EACH OTHER.
2. SEE SHEET E-4 FOR LOCATION OF CONDUIT RUNS. PRECISE LOCATIONS OF CONDUIT RUNS SHALL BE AS APPROVED IN THE FIELD BY THE PARK PROJECTS INSPECTOR. CONTRACTOR SHALL COORDINATE LOCATIONS OF CONDUIT RUNS WITH IRRIGATION, DOMESTIC WATER AND DRAINAGE LINES TO AVOID CONFLICTS. SEE SHEETS G-1 AND I-1.
3. SEE SHEET E-4 FOR POLE NUMBERING. NOTE THAT THERE IS NO POLE #21. #21 IS RESERVED FOR LIGHT FIXTURE LOCATED IN LARGE SHADE STRUCTURE.



BRANCH CIRCUIT SCHEDULE

RUN	ø & NETRAL	GROUNDING	CONDUIT
1	3/16" P.R.	–	1"
2	2 #2	#8	1"
3	2 #12	#12	1/2"
4	4 #12	#12	1/2"
5	6 #12	#12	1/2"
6	TELCO CABLE		2" CONFIRM W/TELCO
7	SERVICE		CONFIRM W/ELECT. UTIL
8			
9			

ELECTRICAL SITE PLAN (2/E1)
SCALE 1" = 20'

PERCENT CONDUIT FILL

RUN #	INSULATION	CONDUCTOR	QUANTITY
PANA-5HP MTR	THWN	2	2
	THWN	8	1

REQUIRES 1 INCH CONDUIT = 32.2% CONDUIT FILL – 40% ALLOWED.

REGISTERED PROFESSIONAL ENGINEER JOSEPH M. NOVAK NO E 9333 ELECTRICAL STATE OF CALIFORNIA

ELECTRICAL NOTES & SYMBOLS:

1. ALL WORK TO BE DONE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE 1990 EDITION
2. ALL UNDERGROUND OUTSIDE BRANCH CIRCUIT AND FEEDER CIRCUITS ARE TO BE RUN IN NONMETALLIC CONDUIT SCHEDULE 40.
3. ALL ELECTRICAL CONDUCTORS ARE TO BE THWN COPPER.
4. ALL ELECTRICAL SYMBOLS PER ANSI Y32.9 1972. REAFFIRMED 1989.
5. ANY CUT SEWER OR SPRINKLER MUST BE REPLACED BY CONTRACTOR AT HIS EXPENSE.
6. UTILITIES AND LIGHTING EQUIPMENT ARE DRAWN DIAGRAMMETICALLY. SCALED DIMENSIONS ARE APPROXIMATE ONLY. BEFORE PROCEEDING WITH WORK, CAREFULLY CHECK AND VERIFY DIMENSIONS, IMMEDIATELY NOTIFY ENGINEER OF DISCREPENCIES BETWEEN DRAWINGS OR SPECIFICATIONS AND ACTUAL CONDITIONS, ALTHOUGH SIZES AND LOCATIONS OF EQUIPMENT ARE DRAWN TO SCALE WHEREVER POSSIBLE, IT IS NOT WITHIN SCOPE OF THE DRAWINGS TO SHOW NECESSARY OFFSETS, OBSTRUCTIONS, OR SITE CONDITIONS. THE CONTRACTOR WILL BE RESPONISIBLE TO INSTALL WORK IN SUCH A MANNER THAT IT WILL CONFIRM TO SITE CONDITIONS, COMPLETE AND IN GOOD WORKING ORDER.
7. WITH REFERENCE TO TELEPHONE AND ELECTRICAL UTILITIES THIS IS A PRELIMINARY PLAN ONLY, AND IS NOT BE USED FOR CONSTRUCTION PURPOSES.
8. SWITCHGEAR SHOP DRAWINGS TO BE PROVIDED TO THE ELECTRICAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
9. ELECTRICAL CONTRACTOR IS TO CONTACT SERVING TELCO FOR NEW TELEPHONE SERVICE TO THE IRRIGATION CONTROLLER ON SITE.
10. —— —— CONDUCTORS W/GROUND RUN UNDERGROUND REF SITE PLAN FOR SIZES OF CONDUCTORS AND CONDUITS.
11. (1/E1) INDICATES DETAIL # / INDICATES SHEET #
12. —— – —— SERVICE LATERAL TRENCH
13. (LCC) LIGHTING CONTACTOR COIL.
14. ⊣ ⊢ LIGHTING CONTACTOR – CONTACTS. N.O. – LETTERS INDICATE COIL CONTROLLING CONTACTS.
15. (TC) TIME CLOCK.
16. ⊠ UNDERGROUND CONCRETE PULLBOX #3–1/2 (17.5"X12.5"X12.5" PREFAB CONCRETE WITH TRAFFIC COVER. TO VEHICULAR TRAFFIC.
17. ●A1 #n POLE MOUNTED WALKWAY LIGHT. SUBSCRIPT INDICATES DESIGNATION AS FOUND ON FIXTURE SCHEDULE. REF AIMING DIAGRAM ON SHEET E3 FOR LOCATION AND ORIENTATION WITH RESPECT PLAN VIEW. NUMBER (n) INDICATES "ODD" OR "EVEN" FIXTURE AS SCHEDULED ON BREAKER ASSIGNMENTS. SEE SHT. E-4 FOR NUMBER OF EACH FIXTURE/POLE.
18. B1/C1 POLE MOUNTED AREA LIGHT. SUBSCRIPT INDICATES DESIGNATION AS FOUND ON FIXTURE SCHEDULE. REF AIMING DIAGRAM ON SHEET E3 FOR LOCATION AND ORIENTATION WITH RESPECT PLAN VIEW.
19. (n) BRANCH CIRCUIT CONDUCTORS AS INDICATED ON BRANCH CIRCUIT SCHEDULE.

PELA

PROJ.#9311261
DATE: 06/24/94
DWG FILE: ORANGEE?

ELECTRICAL SITE PLAN

DRAWING NUMBER
PLAN HOLD CORPORATION • RIVERSIDE, CALIFORNIA
RECORDER'S NUMBER 1/2544

DRAWING NUMBER
PLAN HOLD CORPORATION • RIVERSIDE, CALIFORNIA
RECORDER'S NUMBER 1/2544

DRAWING NUMBER
PLAN HOLD CORPORATION • RIVERSIDE, CALIFORNIA
RECORDER'S NUMBER 1/2544

DRAWING NUMBER
TH - 18
PLAN HOLD CORPORATION • RIVERSIDE, CALIFORNIA
RECORDER'S NUMBER 1/2544

ENGINEERING, INC.
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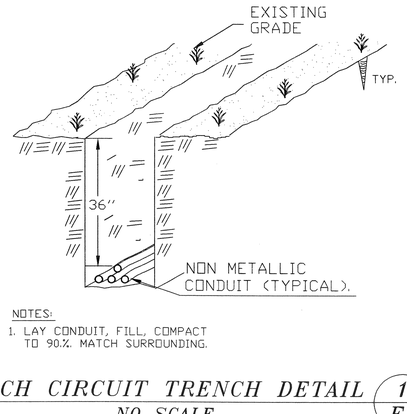
CITY OF RIVERSIDE
PARK & RECREATION DEPARTMENT

ORANGECREST PARK SITE #2

REVISION:	BY
#1 PER CITY CITY COMMENTS	J.E.T.

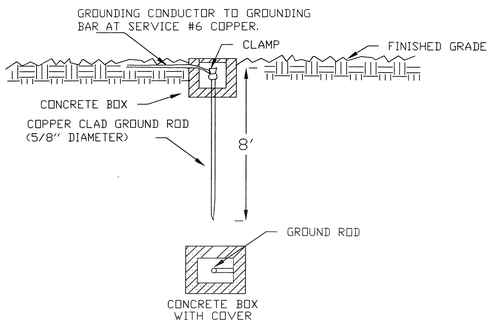
sheet E-1

P-0306



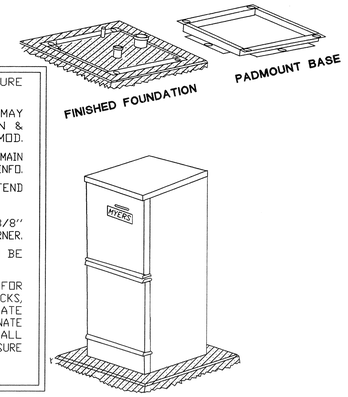
NOTES:
1. LAY CONDUIT, FILL, COMPACT TO 90%. MATCH SURROUNDING.

BRANCH CIRCUIT TRENCH DETAIL 1/E2
NO SCALE

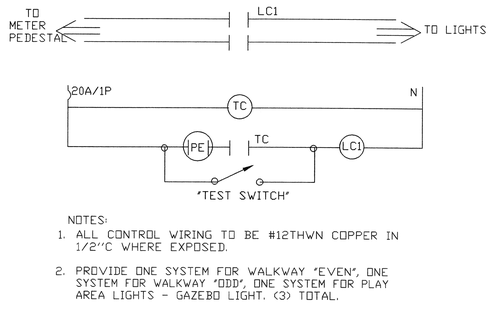


DRIVEN GROUND ROD DETAIL 2/E2
NO SCALE

1. SWITCHGEAR TO BE IN NEMA 3R ENCLOSURE WITH HASP.
2. ORDERING INFORMATION ON SWITCHGEAR MAY BE OBTAINED FROM "JIM" @ NELSON & ASSOC. (213)921-4423 MEUGD-M200C/SSMOD.
3. REF BREAKER ASSIGNMENTS FOR INFORMATION ON MAIN CIRCUIT BREAKER INTERIOR SPACES AND OTHER INFO.
4. PAD TO BE 2000PSI CONCRETE 6 " THICK. EXTEND 4" BEYOND ENCLOSURE ON ALL SIDES.
5. SWITCHGEAR TO BE SECURED TO PAD WITH 3/8" X 3-1/2" ANCHOR BOLTS ASTM A325 AT EACH CORNER.
6. PROVIDE DUPLEX GFCI RECEPTACLE TO BE MOUNTED INSIDE PANELBOARD.
7. ENCLOSURE SHOWN HAS SUFFICIENT SPACE FOR MOUNTING OF P.E. CELL CONTACTORS, TIMECLOCKS, & CONTROLS IN AUXILIARY SECTION. SEPARATE FROM LIVE EXPOSED ELECTRICAL PARTS. ALTERNATE SUBMITTAL WILL ONLY BE CONSIDERED IF ALL EQUIPMENT CAN BE MOUNTED IN THE ONE ENCLOSURE

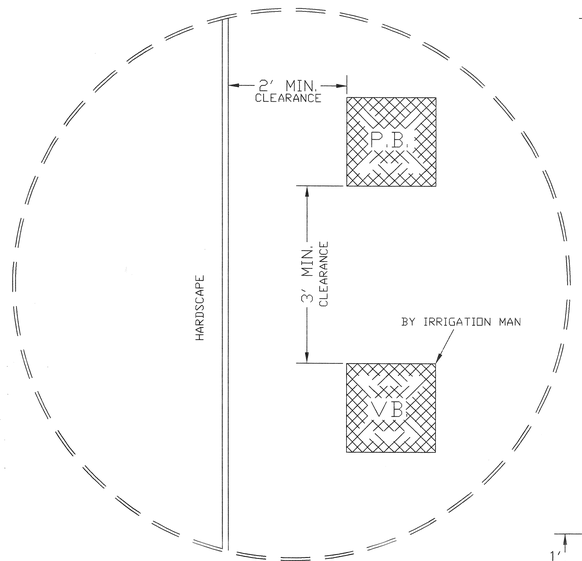


SERVICE METER PEDESTAL 3/E2
NO SCALE

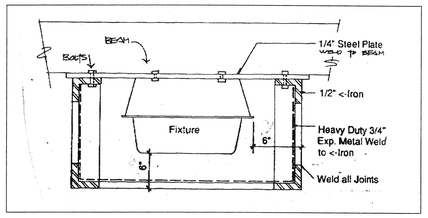


NOTES:
1. ALL CONTROL WIRING TO BE #12THWN COPPER IN 1/2"C WHERE EXPOSED.
2. PROVIDE ONE SYSTEM FOR WALKWAY "EVEN", ONE SYSTEM FOR WALKWAY "ODD", ONE SYSTEM FOR PLAY AREA LIGHTS - GAZEBO LIGHT. (3) TOTAL.
3. RATINGS OF CONTACTORS TO MATCH CIRCUIT BREAKER.
4. MOUNT TIMECLOCK, CONTACTORS & TEST SWITCH IN METER PEDESTAL. REF DETAIL.
5. TEST SWITCH TO BE RESIDENTIAL SNAP SWITCH. LABELED "TEST" IN INDELIBLE LETTERING.
6. ALL LIGHTS TO BE CONTROLLED - P.E. CELL ON - TIMECLOCK OFF. TIMECLOCK TO BE 3 CHANNEL MINIMUM. REFERENCE SPECIFICATION. TIMECLOCK WILL ALLOW FOR H-O-A OPERATION. (ON-OFF-MANUAL)

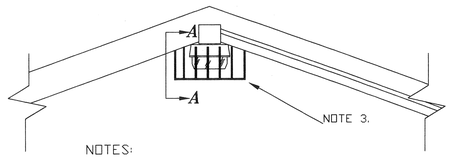
CONTROL DIAGRAM - EXTERIOR LIGHTING 4/E2
NO SCALE



STANDARD DETAIL PULLBOX TO EDGE OF HARDSCAPE 9/E2
NO SCALE



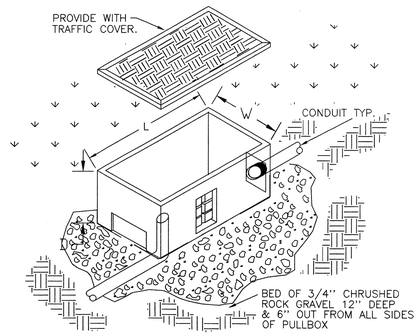
SECTION A-A



NOTES:
1. FIXTURE TO BE KENALL # 5788 175W MH.
2. PROVIDE WITH PHOTOELECTRIC CONTROL
3. BOLT 14 GAUGE EXPANDED METAL CAGE WITH ANGLE. CAGE TO MINIMUM 6" OUT FROM LUMINAIRE. REF CITY OF RIVERSIDE SPEC.
4. CONTRACTOR TO PROVIDE NECESSARY HARDWARE TO MOUNT FIXTURE TO ROOF OF SHADE STRUCTURE (GAZEBO)
5. FINISH - BAKED ON ENAMEL PAINT IN DARK BRONZE

REGISTERED PROFESSIONAL ENGINEER JOSEPH M. NOLAN NO E 9333 ELECTRICAL STATE OF CALIFORNIA

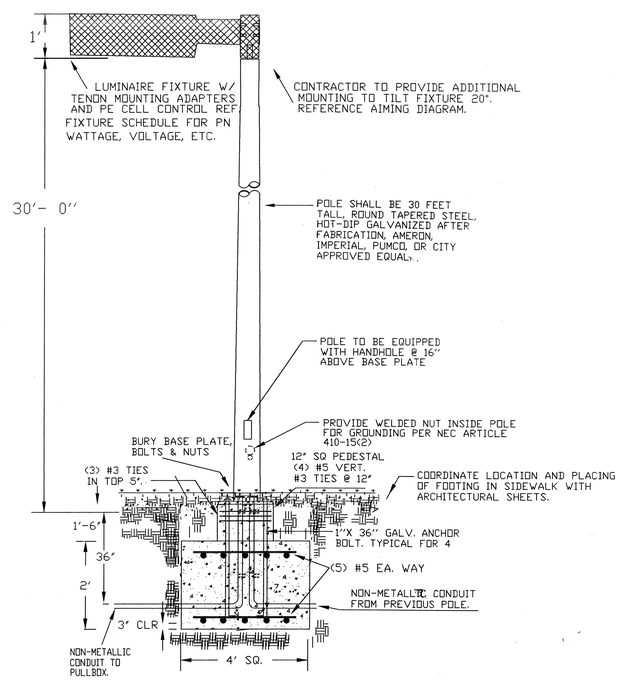
SHADE STRUCTURE (GAZEBO)
FIXTURE MOUNTING DETAIL 8/E2
NO SCALE



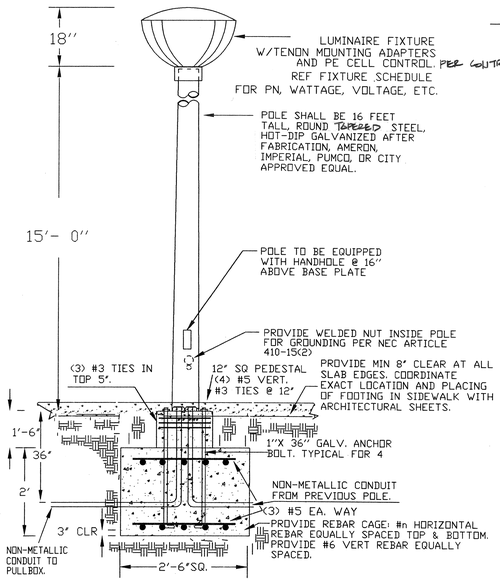
PULLBOX/VAULT SCHEDULE			
PN	Length	Width	Depth
#3-1/2	17.5"	12.5"	12.5"

1. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON PULLBOX.
2. REFERENCE ELECTRICAL SITE PLAN FOR SIZE OF CONDUITS
3. DIMENSIONS SHOWN FOR PULLBOX ARE TO BE PROVIDED UNLESS INDICATED OTHERWISE ON ELECTRICAL SITE PLAN NOTES.
4. PROVIDE SCHEDULE 40 SWEEPS INTO PULLBOX.

PULLBOX INSTALLATION DETAIL 5/E2
NO SCALE



PLAY AREA LIGHT DETAIL 6/E2
NO SCALE



DETAILS WALKWAY STANDARD 7/E2
NO SCALE

BREAKER ASSIGNMENTS

MANF	MYERS	PANEL EQIPMENT 1PEDESTAL	
VOLTS	120/240	LOCATION - REF SITE PLAN	
PHASE	1	FEEDER - REF. A.C. SINGLE LINE	
WIRE	3	AMPS	100
M.O.C.D.	D. 100 AMPS	MOUNTING -	SELF STANDING

CKT #	DESCRIPTION/ LOCATION	LOAD TYPE	VOLTS AMPS	PHASE	CKT BKR AMPS	POLES	BRKR CONN CD HR	CONN DDR
1	WALKWAY "ODD" (9)	LITES	783	A	20	2	#12	#12
2	WALKWAY "EVEN" (9)	LITES	783	A	20	2	#12	#12
3	WALKWAY "ODD" (9)	LITES	783	C	--		#12	
4	WALKWAY "EVEN" (9)	LITES	783	C	--		#12	
5	PLAY AREA/TOT LOT (3) GAZEBO (1)	LITES	1542	A	20	2	#12	#12
6	BASKETBALL (FUT)	LITES		A	40	2		
7	PLAY AREA/TOT LOT (3) GAZEBO (1)	LITES	1542	C	--		#12	
8	BASKETBALL (FUT)	LITES		C	--			
9	SPARE			A	20	1		
10	SPARE			A	20	1		
11	PEDESTAL	RECEPT	180	C	20	1	#12	#12
12	TC & CONTACTORS	CONTROL	500	C	20	1	#12	#12
13	IRRIGATION CONTROL	CONTROL	500	A	20	2	#12	#12
14	IRRIGAITON PUMP 5 HP	MOTOR	3220	A	50	2	#2	#8
15	IRRIGATION CONTROL	CONTROL	500	C	--		#12	
16	IRRIGAITON PUMP 5 HP	MOTOR	3220	C	--		#2	#8
17	SPARE		62	A	20	1		
18	SPARE			A	20	1		
19	SPARE			C	20	1		
20	SPARE			C	20	1		

PROPOSED TOTAL VOLT AMPS	14366	VOLTAMPS
PROPOSED LOAD	14366	VOLTAMPS
PROPOSED AMPS/LEG	62	AMPS
62 AMPS @ 125% LCL =	78	AMPS
PROPOSED BUSS RATING	100	AMPS

NOTE: 1. ALL CIRCUIT BREAKERS TO BE 10KAIC.

PELA

PROJ.#9311261
DATE: 06/24/94
DWG FILE: ORANGEE?

ELECTRICAL DETAILS

DRAWING NUMBER
PLAN TOLLO CORPORATION • RIVERSIDE, CALIFORNIA
RECORDED BY NUMBER STAMP

DRAWING NUMBER
PLAN TOLLO CORPORATION • RIVERSIDE, CALIFORNIA
RECORDED BY NUMBER STAMP

DRAWING NUMBER
PLAN TOLLO CORPORATION • RIVERSIDE, CALIFORNIA
RECORDED BY NUMBER STAMP

DRAWING NUMBER 71-14
PLAN TOLLO CORPORATION • RIVERSIDE, CALIFORNIA
RECORDED BY NUMBER STAMP

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CITY OF RIVERSIDE
PARK & RECREATION DEPARTMENT

ORANGECREST PARK SITE #2

REVISION:	BY
PER CITY CITY COMMENTS	J.E.T.

sheet E-2

P-0306

LUMINAIRE SCHEDULE

Symbol	Label	Description Spaulding Lighting Inc.	Type/ Watts	Lumens	Light Loss Factor	Mounting Height	Notes:
●	A1	MWC HB150LU240BZPOLY Tilt: 0.0	150W/HPS	16000	1.00	16.00	
■	B1	HUBBEL RCT1000S-1T8-1 Tilt: 20.0	1000W/HPS	140000	1.00	30.00	PROVIDE WITH "EYELID" SHIELDS.
▣	C1	HUBBEL RCJ0400S-1T8-1 Tilt: 0.0	400W/HPS	50000	1.00	30.00	

RATIOS FOR PLAYAREAS

AVERAGE FOOTCANDLES = 12.10
MAX/MIN RATIO = 12.5 : 1

RATIOS FOR WALKWAY

MINIMUM FOOTCANDLES = 0.60
AVG/MIN RATIO = 1.3 : 1

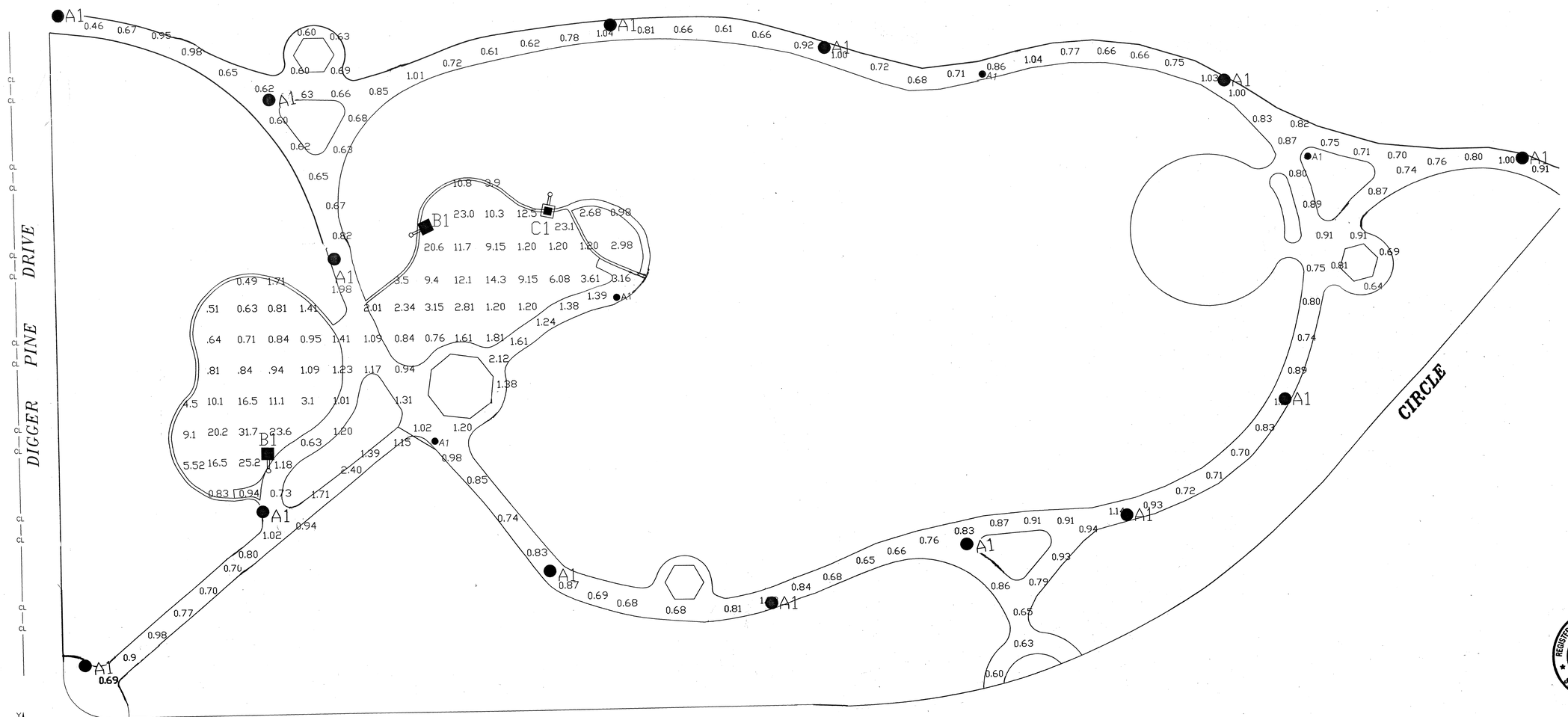
LUMINAIRE AIMING DIAGRAM

LIST OF LUMINAIRE POSITIONS AND ORIENTATIONS

LUMINAIRE ORIENTATION IS MEASURED FROM THE FORWARD Y DIRECTION.

Pole No.	Luminaire No.	Type	X-Co-ord. Feet	Y-Co-ord. Feet	Height Above Pavement	Orientation Angle
1	1	1	116	111	16	90
2	1	1	203	149	16	90
3	1	1	246	81	16	90
4	1	1	340	68	16	90
5	1	1	428	103	16	90
6	1	1	521	123	16	90
7	1	1	583	193	16	90
8	1	1	576	292	16	90
9	1	1	492	336	16	90
10	1	1	403	314	16	90
11	1	1	314	340	16	90
12	1	1	208	328	16	90
13	1	1	25	334	16	90
14	1	1	148	203	16	90
15	1	1	260	213	16	90
16	1	1	666	293	16	90
17	1	1	119	296	16	90
18	1	1	31	38	16	90
19	1	2	111	129	30	353
20	1	2	181	241	30	66
21	1	3	248	258	30	203

NOTE: REF SITE PLAN, ELECTRICAL NOTES , KEYNOTES ON SHEETS E-1 AND SHEET C-1 RE LOCATIONS OF POLES.



PHOTOMETRIC SITE PLAN 1/E3
1"= 20'

PELA

PROJ.#9311261
DATE: 06/24/94
DWG FILE: ORANGE1

PHOTOMETRIC SITE PLAN

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
DESIGNED BY M.MARSTISTRAN

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
DESIGNED BY M.MARSTISTRAN

DRAWING NUMBER
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
DESIGNED BY M.MARSTISTRAN

DRAWING NUMBER
TH-16
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DESIGNED BY M.MARSTISTRAN

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NO E 9333
ELECTRICAL
STATE OF CALIFORNIA

CITY OF RIVERSIDE
PARK & RECREATION DEPARTMENT

ORANGECREST PARK SITE #2

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#1 PER CITY CITY COMMENTS	J.E.T.

sheet E-3

P-0306

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

DRAWING NUMBER
TH - 15

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 075AR

PELA

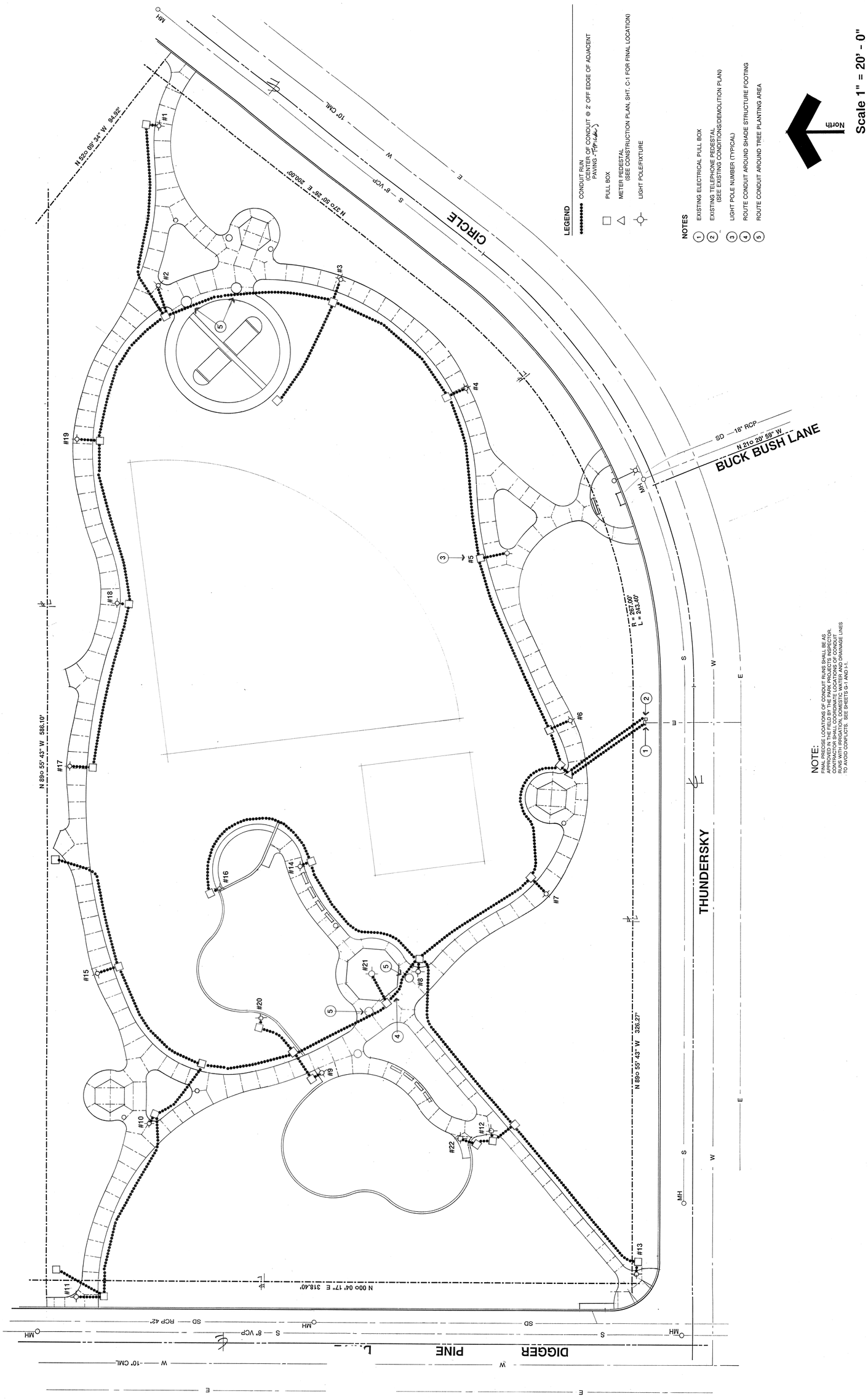
Electrical Conduit Layout

ORANGECREST PARK SITE #2

CITY OF RIVERSIDE
PARK & RECREATION DEPARTMENT

P-0306

sheet E-4



NOTE:
FINAL PRECISE LOCATIONS OF CONDUIT RUNS SHALL BE AS APPROVED IN THE FIELD BY THE PARK PROJECTS INSPECTOR. CONTRACTOR SHALL COORDINATE LOCATIONS OF CONDUIT RUNS WITH IRRIGATION, DOMESTIC WATER AND DRAINAGE LINES TO AVOID CONFLICTS. SEE SHEETS G-1 AND I-1.