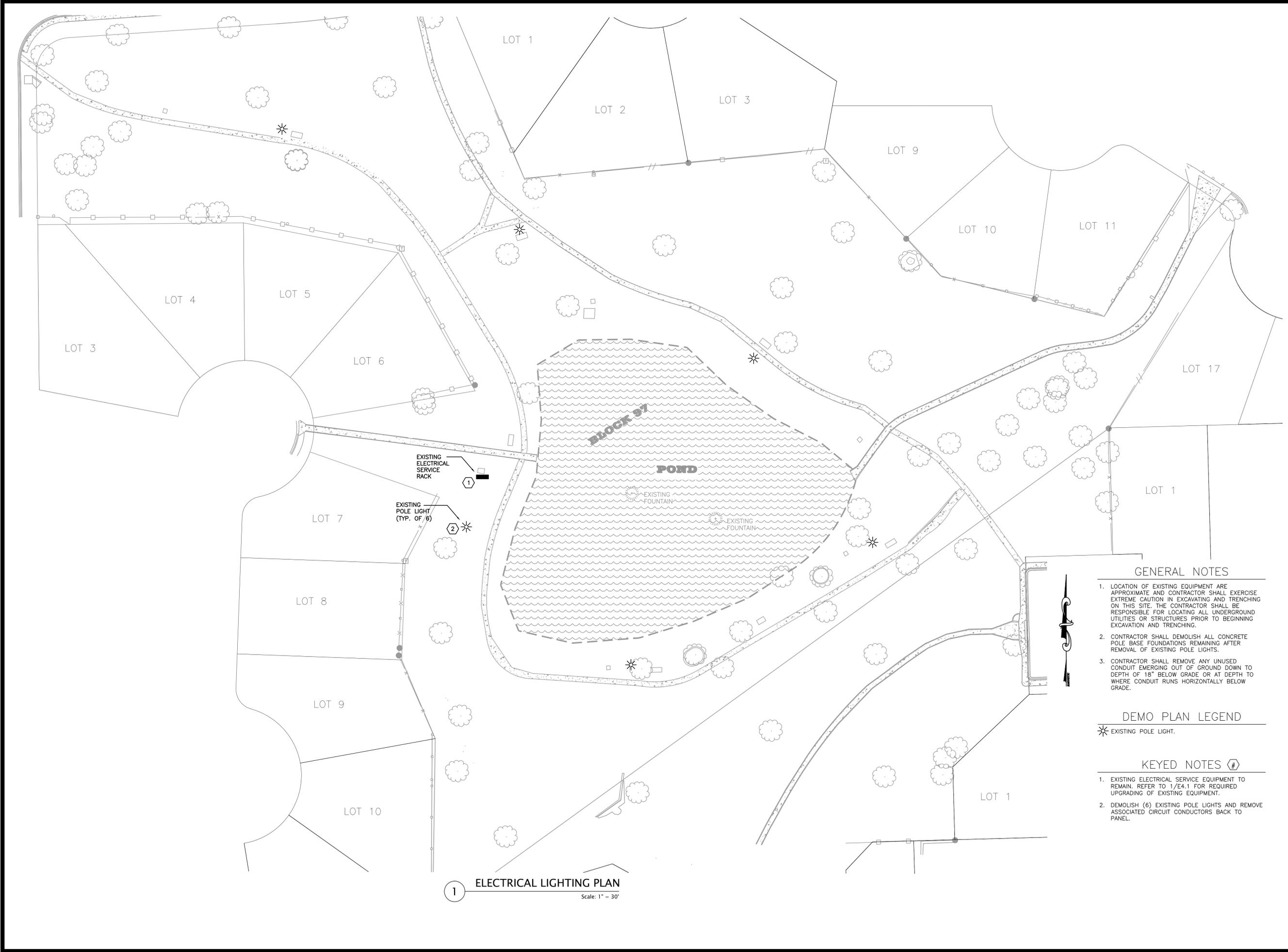


PLOT DATE: October 2, 2015 | PLOT TIME: 11:00:46 AM | USER ID: Derek Brown
 FILE: K:\2515COW00.01 - WINDCREST PARKS\DWG\03-ELECTRICAL\2515COW00.01 - ELECTRICAL DEMO PLAN.DWG



1 ELECTRICAL LIGHTING PLAN
 Scale: 1" = 30'

GENERAL NOTES

1. LOCATION OF EXISTING EQUIPMENT ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES OR STRUCTURES PRIOR TO BEGINNING EXCAVATION AND TRENCHING.
2. CONTRACTOR SHALL DEMOLISH ALL CONCRETE POLE BASE FOUNDATIONS REMAINING AFTER REMOVAL OF EXISTING POLE LIGHTS.
3. CONTRACTOR SHALL REMOVE ANY UNUSED CONDUIT EMERGING OUT OF GROUND DOWN TO DEPTH OF 18" BELOW GRADE OR AT DEPTH TO WHERE CONDUIT RUNS HORIZONTALLY BELOW GRADE.

DEMO PLAN LEGEND

* EXISTING POLE LIGHT.

KEYED NOTES

1. EXISTING ELECTRICAL SERVICE EQUIPMENT TO REMAIN. REFER TO 1/EA.1 FOR REQUIRED UPGRADING OF EXISTING EQUIPMENT.
2. DEMOLISH (6) EXISTING POLE LIGHTS AND REMOVE ASSOCIATED CIRCUIT CONDUCTORS BACK TO PANEL.

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TEXAS REGISTERED ENGINEERING FIRM # 1004000

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HECTOR C. HINOJOSA
 98541
 PROFESSIONAL ENGINEER
 10-02-15

CITY OF WINDCREST

AUTUMN SUNSET PARK

WINDCREST, TX 78239

ELECTRICAL DEMO PLAN

JOB: 2515COW00.001

DATE: 09/29/2015

DRAWN: DJB TDS PM:

DESIGN: HGH TDS DM:

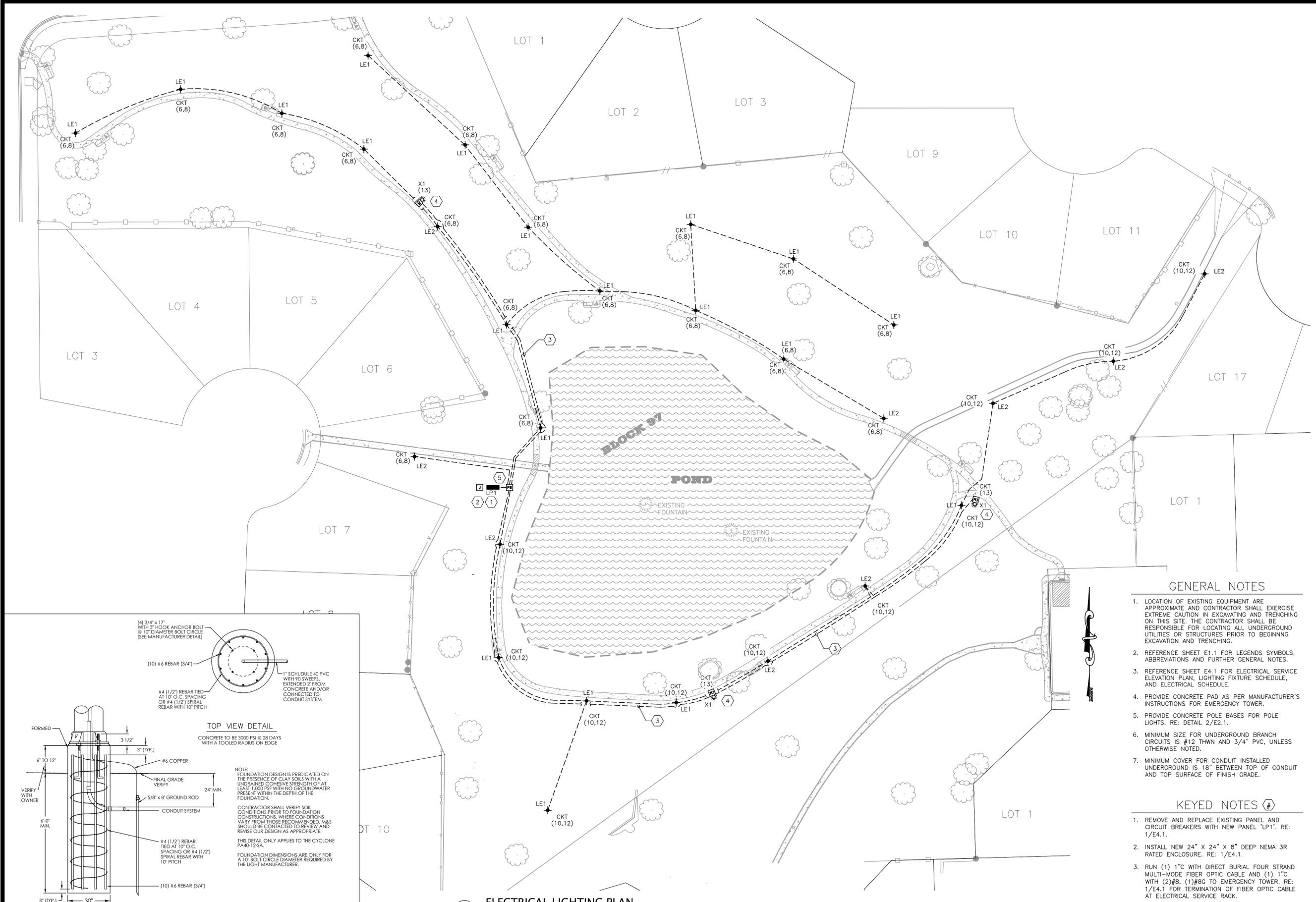
PEER: --- HGH OTHER:

REVISIONS:

DELTA	DESCRIPTION

SHEET:

ED2.1



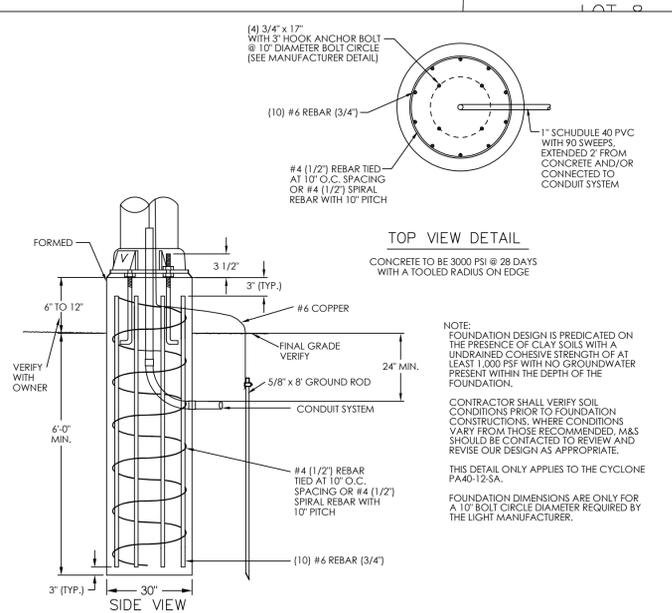
GENERAL NOTES

1. LOCATION OF EXISTING EQUIPMENT ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES OR STRUCTURES PRIOR TO BEGINNING EXCAVATION AND TRENCHING.
2. REFERENCE SHEET E1.1 FOR LEGENDS SYMBOLS, ABBREVIATIONS AND FURTHER GENERAL NOTES.
3. REFERENCE SHEET E4.1 FOR ELECTRICAL SERVICE ELEVATION PLAN, LIGHTING FIXTURE SCHEDULE, AND ELECTRICAL SCHEDULE.
4. PROVIDE CONCRETE PAD AS PER MANUFACTURER'S INSTRUCTIONS FOR EMERGENCY TOWER.
5. PROVIDE CONCRETE POLE BASES FOR POLE LIGHTS. RE: DETAIL 2/E2.1.
6. MINIMUM SIZE FOR UNDERGROUND BRANCH CIRCUITS IS #12 THWN AND 3/4" PVC, UNLESS OTHERWISE NOTED.
7. MINIMUM COVER FOR CONDUIT INSTALLED UNDERGROUND IS 18" BETWEEN TOP OF CONDUIT AND TOP SURFACE OF FINISH GRADE.

KEYED NOTES

1. REMOVE AND REPLACE EXISTING PANEL AND CIRCUIT BREAKERS WITH NEW PANEL "LP1". RE: 1/E4.1.
2. INSTALL NEW 24" X 24" X 8" DEEP NEMA 3R RATED ENCLOSURE. RE: 1/E4.1.
3. RUN (1) 1" C WITH DIRECT BURIAL FOUR STRAND MULTI-MODE FIBER OPTIC CABLE AND (1) 1" C WITH (2) #8, (1) #8 TO EMERGENCY TOWER. RE: 1/E4.1 FOR TERMINATION OF FIBER OPTIC CABLE AT ELECTRICAL SERVICE RACK.
4. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF EMERGENCY TOWER WITH CITY OF WINDCREST CHIEF OF POLICE PRIOR TO BEGINNING WORK.
5. PROVIDE 24X36X18 UNDERGROUND PULL BOX W/DIVIDER, QUAZITE PART# PG2436BA18, 2 PIECE COVER PG2436CS00 (OR EQUAL) W/ "ELECTRIC" ON ONE COVER AND "FIBER OPTICS" ON THE OTHER.

1 ELECTRICAL LIGHTING PLAN
Scale: 1" = 30'



2 STRUCTURAL LIGHT POLE BASE FOR CITY OF WINDCREST, TX (FOR REFERENCE ONLY)
SCALE: N.T.S.



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10-02-15

CITY OF WINDCREST
AUTUMN SUNSET PARK
WINDCREST, TX 78239

ELECTRICAL LIGHTING PLAN

JOB: 2515COW00.001
DATE: 09/29/2015
DRAWN: DJB TDS PM:
DESIGN: HGH TDS DM:
PEER: --- HGH OTHER:
REVISIONS:
DELTA DESCRIPTION

SHEET:
E2.1

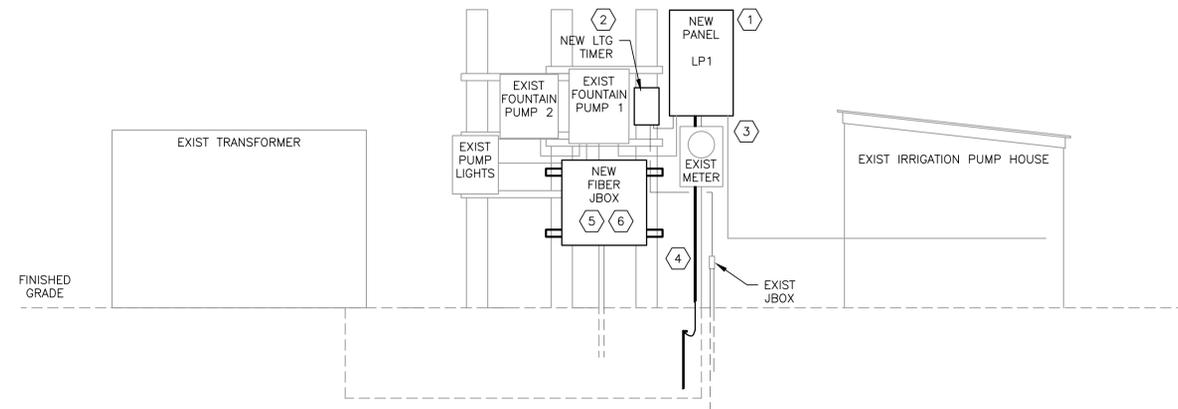
PLOT DATE: October 2, 2015 11:00:48 AM | USER ID: Derek Brown
 FILE: K:\2515COW00.001 - WINDCREST PARKS\DWG\03-ELECTRICAL\2515COW00.001 - ELECTRICAL LIGHTING PLAN.DWG

GENERAL NOTES

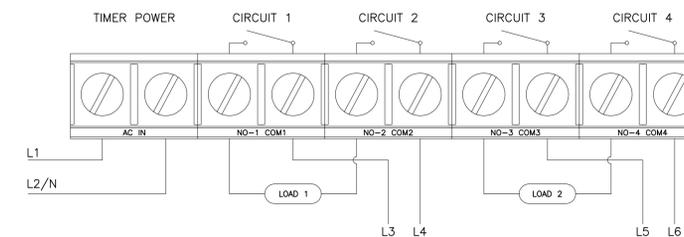
- REFERENCE SHEET E1.1 FOR LEGENDS SYMBOLS, ABBREVIATIONS AND FURTHER GENERAL NOTES.

KEYED NOTES

- DEMOLISH EXISTING CIRCUIT PANEL. INSTALL NEW CIRCUIT PANEL WITH NEW CIRCUIT BREAKERS.
- DEMOLISH EXISTING LIGHTING TIMER. INSTALL NEW INTERMATIC ASTRONOMICAL TIME SWITCH CAT# ET2845CP.
- RUN NEW #2 THWN COPPER WIRE FROM EXISTING METER TO NEW PANEL BOARD LP1
- CONTRACTOR SHALL INSPECT EXISTING SYSTEM GROUNDING AND BRING ANY DEFICIENCIES UP TO CURRENT NATIONAL ELECTRICAL CODE ADOPTED BY THE CITY OF WINDCREST.
- PROVIDE NEMA TYPE 4 36X30X12 JBOX HOFFMAN CAT# A36H30DLP3PT OR EQUAL. VERIFY ACTUAL SIZE OF ENCLOSURE REQUIRED TO HOUSE FIBER MEDIA CONVERTER EQUIPMENT WITH INTERNET SERVICE PROVIDER AND MODIFY SPECIFIED SIZE AS NEEDED.
- LEAVE 20' SERVICE LOOP FOR EACH FIBER CABLE.



1 EXISTING ELECTRICAL SERVICE ELEVATION PLAN
Scale: N.T.S.



TIMER CONFIGURATION FOR TWO 208/240 VAC DPST
OUTPUT CONFIGURATION: SIMULTANEOUS - CIRCUIT 1 AND CIRCUIT 2
OUTPUT CONFIGURATION: SIMULTANEOUS - CIRCUIT 3 AND CIRCUIT 4
PER INTERMATIC INSTALL GUIDE

2 TIMER WIRING CONFIGURATION
Scale: N.T.S.

VOLTAGE: 240/120V		PANEL NAME: EXIST LP1		MOUNT: SURFACE			
PHASE: 1		MINIMUM PANEL RATING: 125 A		NEMA STYLE: --			
WIRE: 3		MAINS TYPE: ---		BUS MATERIAL: COPPER			
		MINIMUM SCCR: --k AIC					
		FED FROM					
CIRCUIT	DESCRIPTION	BRKR.	A	B	BRKR.	DESCRIPTION	CIRCUIT
1, 3	AERATOR #1	20	EXIST LOAD 1560	EXIST LOAD 1560	30	WELL PUMP	2, 4
5	SPARE	30	EXIST LOAD	EXIST LOAD	20	TIMER	6
7	AERATOR LIGHTS	15	EXIST LOAD	EXIST LOAD	20	AERATOR #2	B
	SPARE					SPARE	
POLE TOTAL					POLE TOTAL		
NOTES:		TOTAL LOAD		NOTES:			
EXISTING PANEL LAYOUT SHOWN HERE FOR REFERENCE ONLY		- VA					
		- KVA					
		- AMPS					

VOLTAGE: 240/120V		PANEL NAME: NEW LP1		MOUNT: SURFACE			
PHASE: 1		MINIMUM PANEL RATING: 125 A		NEMA STYLE: TYPE 3R			
WIRE: 3		MAINS TYPE: 100A MCB		BUS MATERIAL: COPPER			
		MINIMUM SCCR: 10 k AIC					
		FED FROM					
CIRCUIT	DESCRIPTION	BRKR.	A	B	BRKR.	DESCRIPTION	CIRCUIT
1, 3	AERATOR #1	20	EXIST LOAD 1560	EXIST LOAD 1560	30	WELL PUMP	2, 4
5, 7	AERATOR #2	20	EXIST LOAD 774	EXIST LOAD 774	20	LIGHTS - NORTH	6, 8
9	AERATOR LIGHTS	15	EXIST LOAD 473	EXIST LOAD 473	20	LIGHTS - SOUTH	10, 12
11	TIMER - LIGHTS	20			20		
13	EMERGENCY TOWER PHONES	20	900		20	SPARE	14
15	SPARE	20			20	SPARE	16
17	SPARE	20			20	SPARE	18
19	SPARE	20			20	SPARE	20
21	SPARE	20			20	SPARE	22
POLE TOTAL					POLE TOTAL		
NOTES:		TOTAL LOAD		NOTES:			
INSTALL NEW CIRCUIT BREAKERS		- VA					
		- KVA					
		- AMPS					

TYPE	QTY.	DESCRIPTION	MANUFACTURER	MODEL NUMBER	MOUNTING	VOLTS	LAMP TYPE	WATTS	CCT	NOTES
LE1	19	LED POLE MOUNTED POST-TOP, TYPE 5	PHILIPS HADCO	80-C-D-1-A-5-H-3000K-A-DB P1150-126-A POLE	POLE @ 12'-6" AFG	240 V	7000LM LED 70+ CRI	86 W	3000 K	-
LE2	9	LED POLE MOUNTED POST-TOP, TYPE 3	PHILIPS HADCO	80-C-D-1-A-3-H-3000K-A-DB P1150-126-A POLE	POLE @ 12'-6" AFG	240 V	7000LM LED 70+ CRI	86 W	3000 K	1
X1	3	EMERGENCY TOWER PHONE WITH DOME CAMERA	RATH SECURITY	2100-TFC3 7476 TOWER MOUNTING HARDWARE 7600 FRONT CAMERA 7600FTZ IP PTZ DOME CAMERA RP73006505M FIBER MEDIA CONVERTER RP6500110 NETWORK SWITCH	--	120 V	--	--	--	2

- Notes**
- ORIENT LUMINAIRE TO ILLUMINATE THE CLOSEST SIDEWALK.
 - TO BE PROVIDED BY OWNER.

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CITY OF WINDCREST
AUTUMN SUNSET PARK
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ELECTRICAL SCHEDULES

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E4.1

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 FILE: K:\2515COW00.001 - WINDCREST PARKS\DWG\03-ELECTRICAL\2515COW00.001 - ELECTRICAL RISER DIAGRAM.DWG