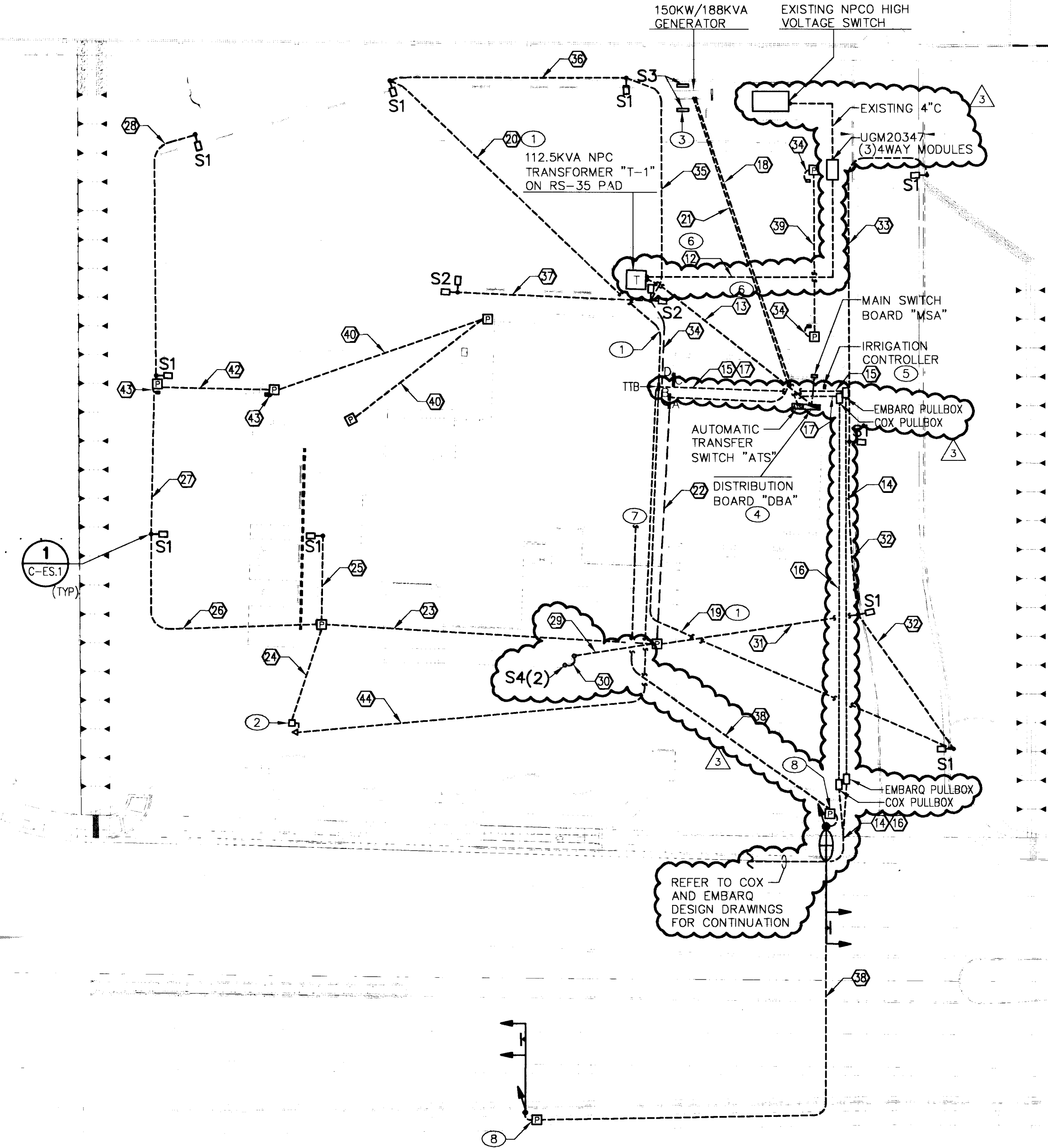




ELECTRICAL SITE PLAN

Scale: 1"=30'

SITE CONDUIT AND WIRE SCHEDULE						
TAG #	DIAMETER	TYPE	FROM	TO	CONDUCTORS	NOTES
12	SEE NPCO DWG.	PVC	90 DEG. TURN	TRANSFORMER	BY OTHERS	BY OTHERS
13	(2) 4"	PVC	TRANSFORMER	'MSA'	C.O.	WIRING BY NPCO
14	(2) 2"	PVC	SPRINT P.O.C.	PULLBOX	C.O.	WIRING BY EMBARQ
15	(2) 2"	PVC	PULLBOX	'TTB'	C.O.	WIRING BY EMBARQ
16	(2) 2"	PVC	COX P.O.C.	PULLBOX	C.O.	WIRING BY COX
17	(2) 2"	PVC	PULLBOX	'TTB'	C.O.	WIRING BY COX
18	(2) 3"	PVC	'ATS'	GENERATOR	(4)350KCMIL,(1)2/0 EA.	TRANSFER SWITCH
19	1"	PVC	'TTB'	S1 POLE	C.O.	FUTURE CAMERA
20	1"	PVC	'TTB'	S1 POLE	C.O.	FUTURE CAMERA
21	1"	PVC	PANEL 'B'	J-BOX	(2)23,(4)10,(1)10 GND	GENERATOR ROOM
22	1-1/4"	PVC	PANEL 'A'	PULLBOX	(5)10,(1)10 GND	
23	1-1/4"	PVC	PULLBOX	PULLBOX	(4)10,(1)10 GND	
24	3/4"	PVC	PULLBOX	DISCONNECT	(2)10,(1)10 GND	
25	1-1/4"	PVC	PULLBOX	S1 POLE	(2)10,(1)10 GND	
26	1-1/4"	PVC	PULLBOX	S1 POLE	(2)10,(1)10 GND	
27	1-1/4"	PVC	S1 POLE	S1 POLE	(2)10,(1)10 GND	
28	1-1/4"	PVC	S1 POLE	S1 POLE	(2)10,(1)10 GND	
29	3/4"	PVC	PULLBOX	S4 UPLIGHT	(2)10,(1)10 GND	
30	3/4"	PVC	S4 UPLIGHT	S4 UPLIGHT	(2)10,(1)10 GND	
31	1-1/4"	PVC	PULLBOX	S1 POLE	(2)10,(1)10 GND	
32	1-1/4"	PVC	S1 POLE	S1 POLE	(2)10,(1)10 GND	
33	1-1/4"	PVC	S1 POLE	S1 POLE	(2)10,(1)10 GND	
34	1-1/4"	PVC	PANEL 'A'	S2 POLE	(2)10,(1)10 GND	
35	1-1/4"	PVC	S2 POLE	S1 POLE	(2)10,(1)10 GND	
36	1-1/4"	PVC	S1 POLE	S1 POLE	(2)10,(1)10 GND	
37	1-1/4"	PVC	S2 POLE	S2 POLE	(2)10,(1)10 GND	
38	3"	PVC	CONTROLLER	SIGNAL POLE	C.O.	
39	(2) 1"	PVC	PULLBOX	PULLBOX	(2)10,(1)10 GND	
40	(2) 1"	PVC	PULLBOX	PULLBOX	(2)10,(1)10 GND	
41	(2) 1"	PVC	PULLBOX	PULLBOX	(2)10,(1)10 GND	
42	(2) 1"	PVC	PULLBOX	PULLBOX	(2)10,(1)10 GND	
43	(2) 1"	PVC	PULLBOX	PULLBOX	(2)10,(1)10 GND	
44	(2) 1"	PVC	TTB	SIGNALBOX	C.O.	

NOTES:
(1) "RGS-PVC" INDICATES PVC-COATED RIGID GALVANIZED STEEL. "EMT" INDICATES ELECTRICAL METALLIC TUBING.
(2) "PVC" INDICATES SCHEDULE 40 POLYVINYL CHLORIDE CONDUIT.
(3) "C.O." INDICATES CONDUIT ONLY. PROVIDE A PULL STRING IN EACH EMPTY CONDUIT.
(4) "P.O.C." INDICATES UTILITY POINT OF CONNECTION. "NPCO" INDICATES NEVADA POWER COMPANY.

GENERAL PLAN NOTES

1. ALL CONDUCTORS ARE SIZED FOR VOLTAGE DROP. NO REDUCTIONS SHALL BE MADE WITHOUT PERMISSION FROM THE ENGINEER.
2. PROVIDE A POLYESTER PULL TAPE WITH CONTINUOUS FOOT MARKINGS AND 1,200 LBS PULL STRENGTH IN ALL EMPTY CONDUITS.
3. CONDUIT BELOW SLAB SHALL BE PARALLEL OR PERPENDICULAR TO BUILDING WALLS AS INDICATED, TO FACILITATE LOCATION BY OWNER FOR MAINTENANCE.
4. LABEL ALL CONDUITS WITH CIRCUIT NUMBERS AND FEEDER SOURCE LOCATION.
5. WIRE AND CONDUIT FOR EXTERIOR LIGHTING AND MONUMENT SIGN SHALL BE A MINIMUM OF #10 THW AND 1-1/4" CONDUIT UNLESS NOTED OTHERWISE.
6. ALL PULLBOXES ARE SIZE NO. 3-1/2 PER CCAUSD NO. 326 (SHEET C-15) UNLESS NOTED OTHERWISE. PROVIDE NON-CONDUCTIVE LIDS RATED FOR 20,000 POUNDS.
7. EXTERIOR LIGHTING SHALL BE CONTROLLED BY TORK MODEL 2007 PHOTOCELL WITH TORK 2421 RECEPTACLE AND CONNECTED THROUGH LIGHTING CONTACTOR. SEE DIAGRAM ON SHEET E6.2.
8. MANUFACTURERS INDICATED ON THE SITE LIGHTING FIXTURE SCHEDULE ARE FOR REFERENCE ONLY. REFER TO SPECIFICATIONS FOR SUBSTITUTION REQUIREMENTS.
9. REFER TO UTILITY DRAWINGS FOR ADDITIONAL INFORMATION.
10. EXISTING STREET LIGHTING CIRCUIT MUST REMAIN IN SERVICE DURING RELOCATION OF EXISTING STREET LIGHTS.
11. SEE CIVIL DRAWINGS FOR TRAFFIC SIGNAL, EMERGENCY FLASHER AND OPTICOM DESIGN, DETAILS AND TECHNICAL SPECIFICATIONS.
12. VERIFY LOCATIONS OF FUTURE VEHICULAR AND MAN GATE PULLBOXES WITH OWNER PRIOR TO INSTALLATION (CONDUIT RUNS 39, 40, 41 AND 42).

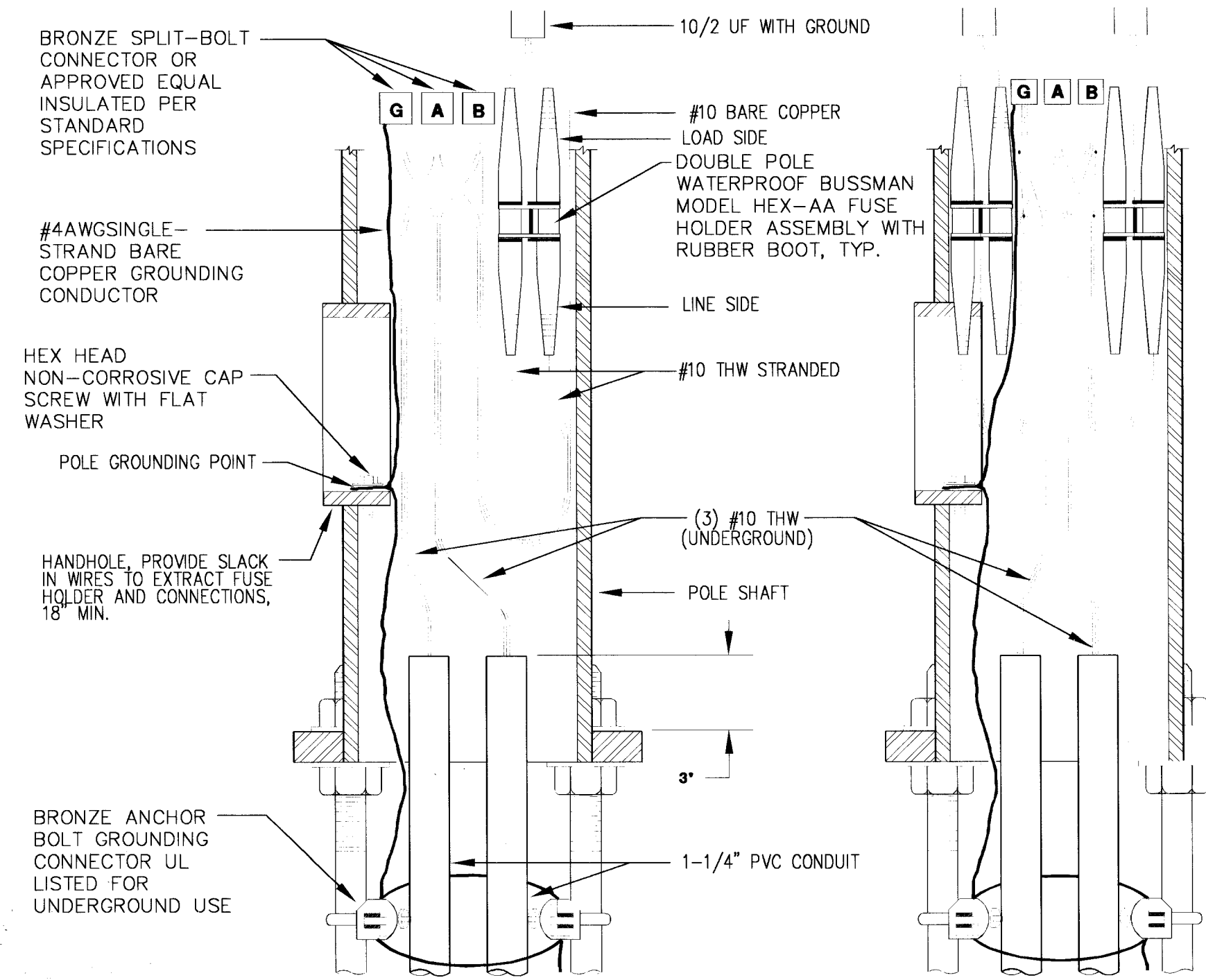
KEYED PLAN NOTES

1. 1" CONDUIT ONLY, FOR FUTURE CAMERA. STUB, CAP AND MARK CONDUIT INSIDE POLE HANDHOLE.
2. PROVIDE J-BOX AND WEATHERPROOF SWITCH FOR MONUMENT SIGN, RECESSED IN SIGN WALL. LOCATE 24" AFG, CONTRACTOR TO VERIFY.
3. PROVIDE 3/4" EMT FOR LIGHTING AND RECEPTACLE CIRCUIT IN GENERATOR ENCLOSURE (CIRCUIT B-36). CONNECT TO J-BOX AT END OF 1" CONDUIT FROM PANEL 'B' (SEE SITE CONDUIT AND WIRE SCHEDULE BELOW).
4. SEE SINGLE LINE DIAGRAM ON SHEET E1.2 FOR WIRE AND CONDUIT SIZES TO PANELS A, B, C, D, AND TRANSFER SWITCH.
5. SEE SHEET E3.1 FOR IRRIGATION CONTROLLER CONNECTIONS.
6. SEE NEVADA POWER COMPANY DRAWING FOR CONDUIT AND WIRE SIZES.
7. SEE SHEET E3.1 FOR CONTINUATION.
8. SEE SHEET C-5 FOR CONNECTION FROM PULLBOX TO SIGNAL POLE.

SITE LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER/CATALOG NUMBER	VOLTAGE	NO. LAMPS	WATTS FIXT.	LAMP TYPE	REMARKS	SYMBOL
S1	ARM MOUNTED METAL HALIDE TYPE III AREA FIXTURE (1)	LITHONIA KSF1-250M-R3-208-SP04-DF-DOB/KSFHS	208	1	300	M250/U (LPW=80)	POLE: VALMONT 600W300 CUT TO LENGTH OF 20 FT WITH 4" x 6.5" HANDHOLE	S1
S2	ARM MOUNTED METAL HALIDE TYPE III AREA FIXTURE (2090)	LITHONIA KSF1-250M-R3-208-SP09-DF-DOB-D90	208	2	600	M250/U (LPW=80)	POLE: VALMONT 600W300 CUT TO LENGTH OF 20 FT WITH 4" x 6.5" HANDHOLE	S2
S3	WALL MOUNTED 4 FT 2-LAMP FLUORESCENT WRAP FIXTURE	LITHONIA WVC-232-120-GE810IS-EL14	120	2	80	F032/841 (LPW=92)	MOUNT IN GENERATOR ENCLOSURE AT 8'-0" AFF. COORDINATE LOCATION.	S3
S4	RECESSED METAL HALIDE FLAG UPLIGHT WITH SPOT OPTICS	ALLSCAPE SL33-100MH-SPT-120-BK	208	1	130	M100/U/MED (LPW=85)	LOCATE AT 180 DEGREES 3'-0" FROM FLAGPOLE TO CENTER OF LENS	S4

NOTE: TYPES S1 AND S2 ARE FULL CUTOFF LUMINAIRES WITH FLAT LENSES.



FIXTURE TYPES S1 AND S2 SINGLE AND DOUBLE FIXTURE WIRING DIAGRAMS

NOT TO SCALE

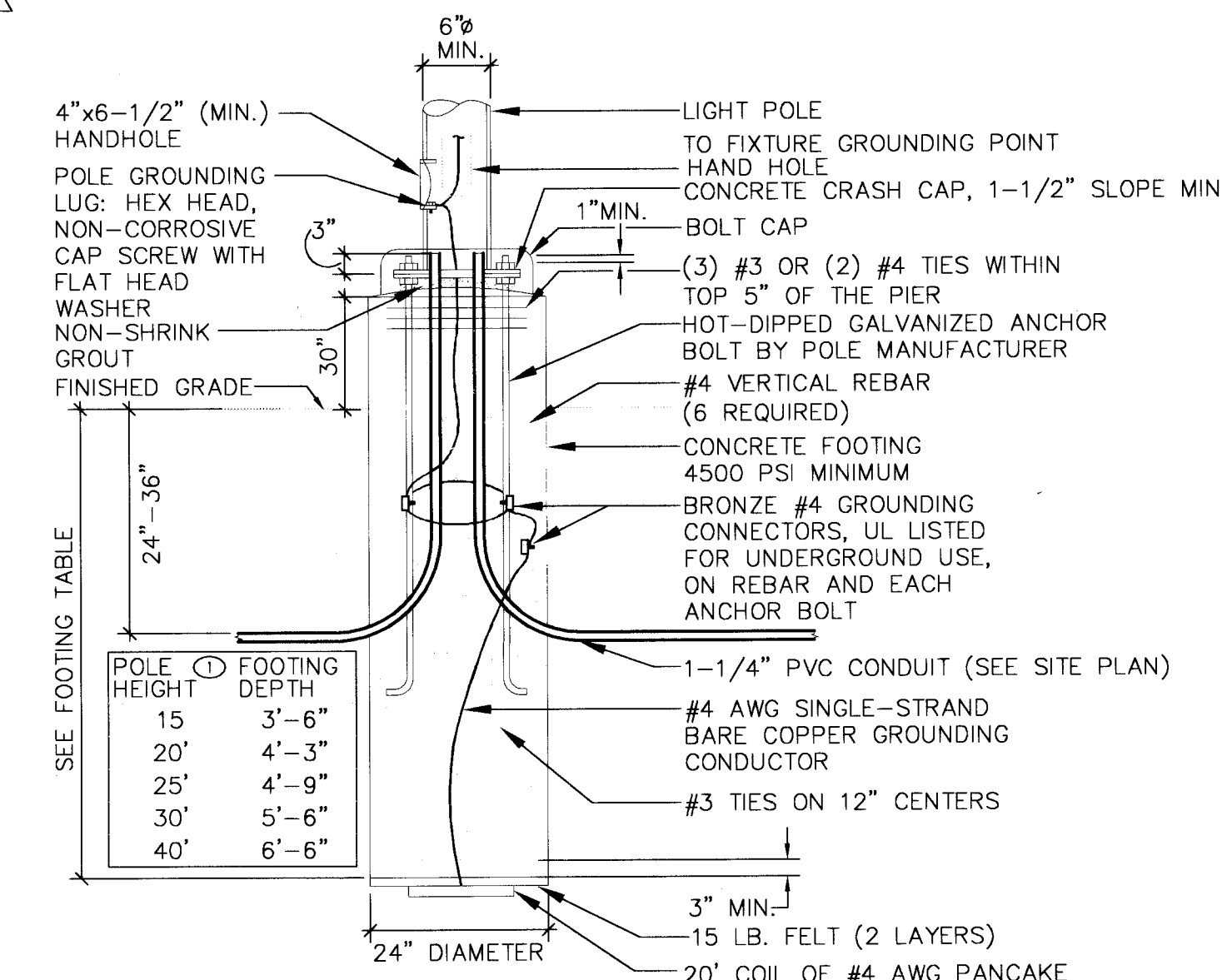
2

C-ES.1

SYMBOL LEGEND	
E	PANELBOARD (LETTER=DESIGNATION)
TTB	TELEPHONE TERMINAL BOARD
DISCONNECT SWITCH	
PUSHBUTTON	
MOTOR	
PRECAST PULLBOX	
NEVADA POWER PULLBOX	
SINGLE PHASE PAD MOUNTED TRANSFORMER	
PAD MOUNTED SERVICE PEDESTAL	
MAIN SWITCHBOARD	

UTILITY COMPANY DRAWING NUMBERS:	
NEVADA POWER: PROJ ID: 176925	
SPRINT TELEPHONE:	
COX COMMUNICATIONS:	

SEE NEVADA POWER DRAWINGS FOR EXACT LOCATION OF MAIN SERVICE POINT OF CONNECTION AND ADDITIONAL WORK NOT SHOWN ON THIS SHEET. CONTRACTOR SHALL VERIFY SCOPE OF WORK WITH NEVADA POWER CO.



FIXTURE TYPES S1 AND S2 BOLTED LIGHT POLE FOUNDATION

NOT TO SCALE

1

C-ES.1



COMFORT ENGINEERING
MECHANICAL-ELECTRICAL-PLUMBING
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CITY OF LAS VEGAS, NEVADA
FIRE STATION #48
ELECTRICAL SITE PLAN

REGISTERED PROFESSIONAL ENGINEER - STATE OF NEVADA
JOSHUA PENSO
Exp. 12-31-09
1/31/08

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ARCHITECTURAL SERVICES

ARCHITECT OF RECORD
SAMUEL D. TOLMAN, AIA, NCARB
400 EAST STEWART AVENUE
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DATE	06-04-08
SCALE	AS NOTED
SHEET NO.	22 OF 26 SHEETS

24423
RELOT

630-104