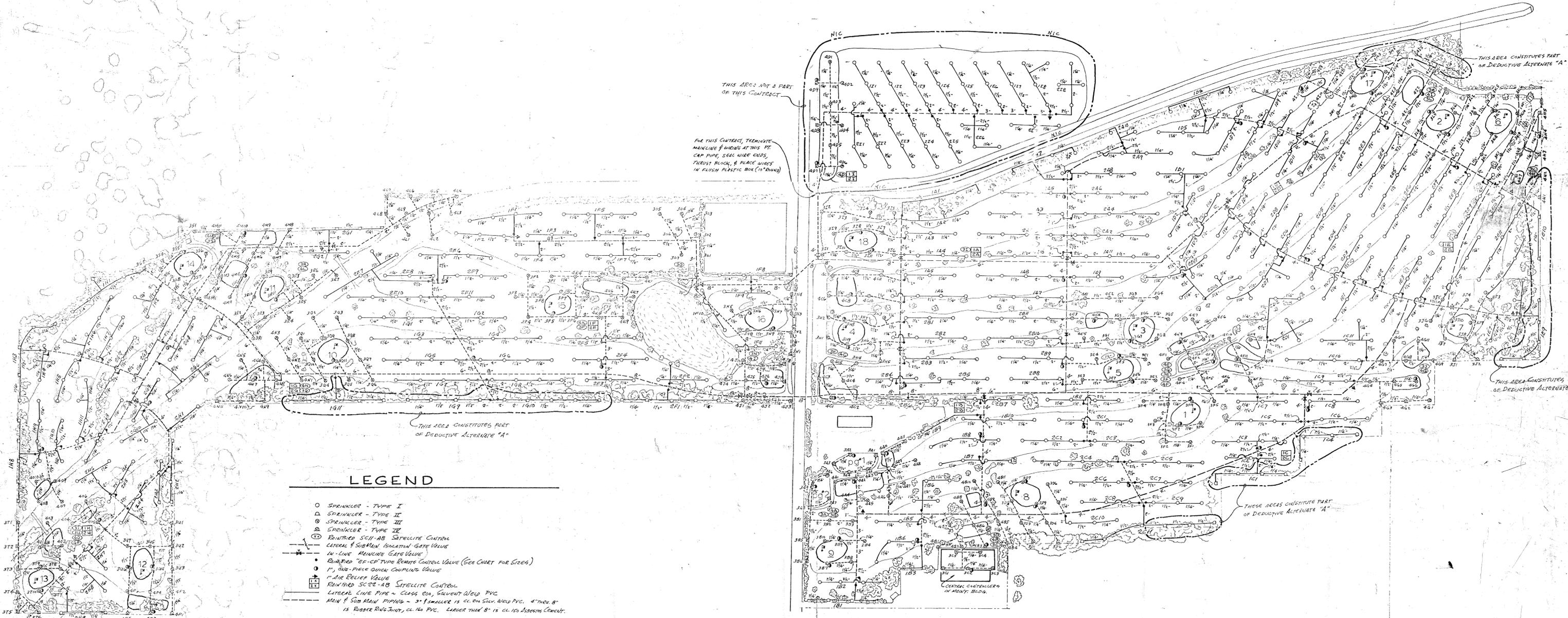


Irrigation System Map



LEGEND

- SPRINKLER - TYPE I
- △ SPRINKLER - TYPE II
- ⊙ SPRINKLER - TYPE III
- ⊕ SPRINKLER - TYPE IV
- BENTONITE SOFT-AB SATELLITE CONTROL
- LATERAL & SUB MAIN ISOLATION GATE VALVE
- IN-LINE MAINLINE GATE VALVE
- BURIED "E-CO" TYPE REMOTE CONTROL VALVE (SEE CHART FOR SIZES)
- 1" AIR RELEASE VALVE
- AIR RELIEF VALVE
- BENTONITE SOFT-AB SATELLITE CONTROL
- LATERAL LINE PIPE - CORR. COP. GALVANIZED WELD PVC
- MAIN & SUB MAIN PIPING - 3" & SMALLER IS CL. 800 S.W. WELD PVC. 4" thru 8" IS RUBBER RIGIDITY, CL. 140 PVC. LARGER THAN 8" IS CL. 150 SPOONING CONCRETE.

SCALE 1" = 100'

REMOTE CONTROL VALVE SIZING CHART

No. of TYPE I VALVE SIZES	No. of TYPE II VALVE SIZES
2 — 1 1/2"	2 — 1 1/2"
3 — 2"	3 — 1 1/2"
4 — 2"	4 — 1 1/2"
	5 — 2"
	6 — 2"

PLAN B
IRRIGATION SYSTEM MECHANICAL
SHEET 1 OF 2

Clubhouse Lighting System Maps

Hall Goodhue Haisley & Barker
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Architecture, Planning, Urban Design
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Monterey, California 93940
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H.G. "DAD" MILLER GOLF COURSE CLUBHOUSE

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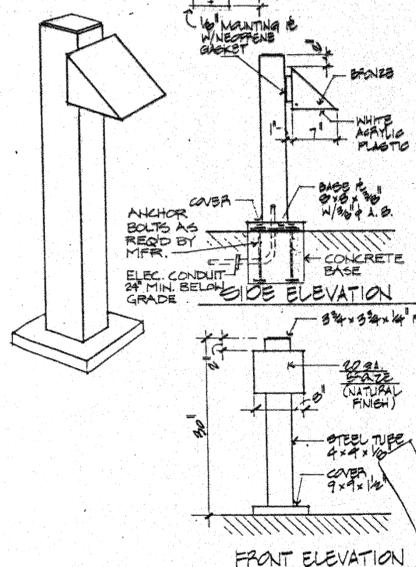
JOB No. 88-122

Drawing Title:
ELECTRICAL SITE PLAN

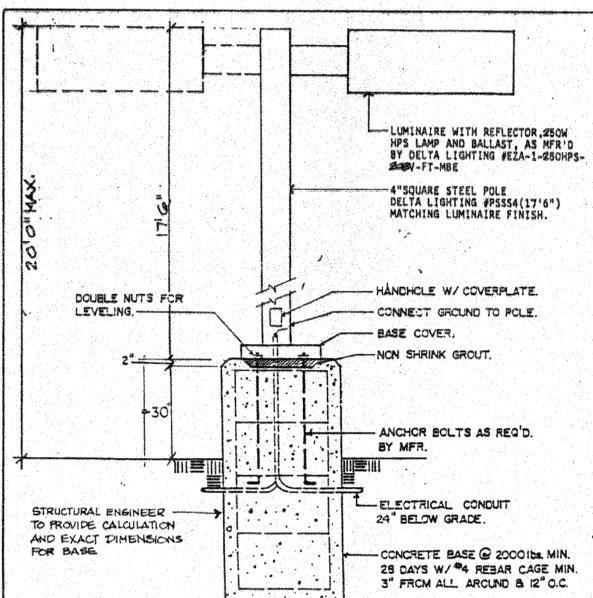
Scale: 1" = 20'-0" Sheet No.:

E-1

Date: 10/31/89



FIXTURE TYPE "V" INSTALLATION DETAIL SCALE NONE (B)



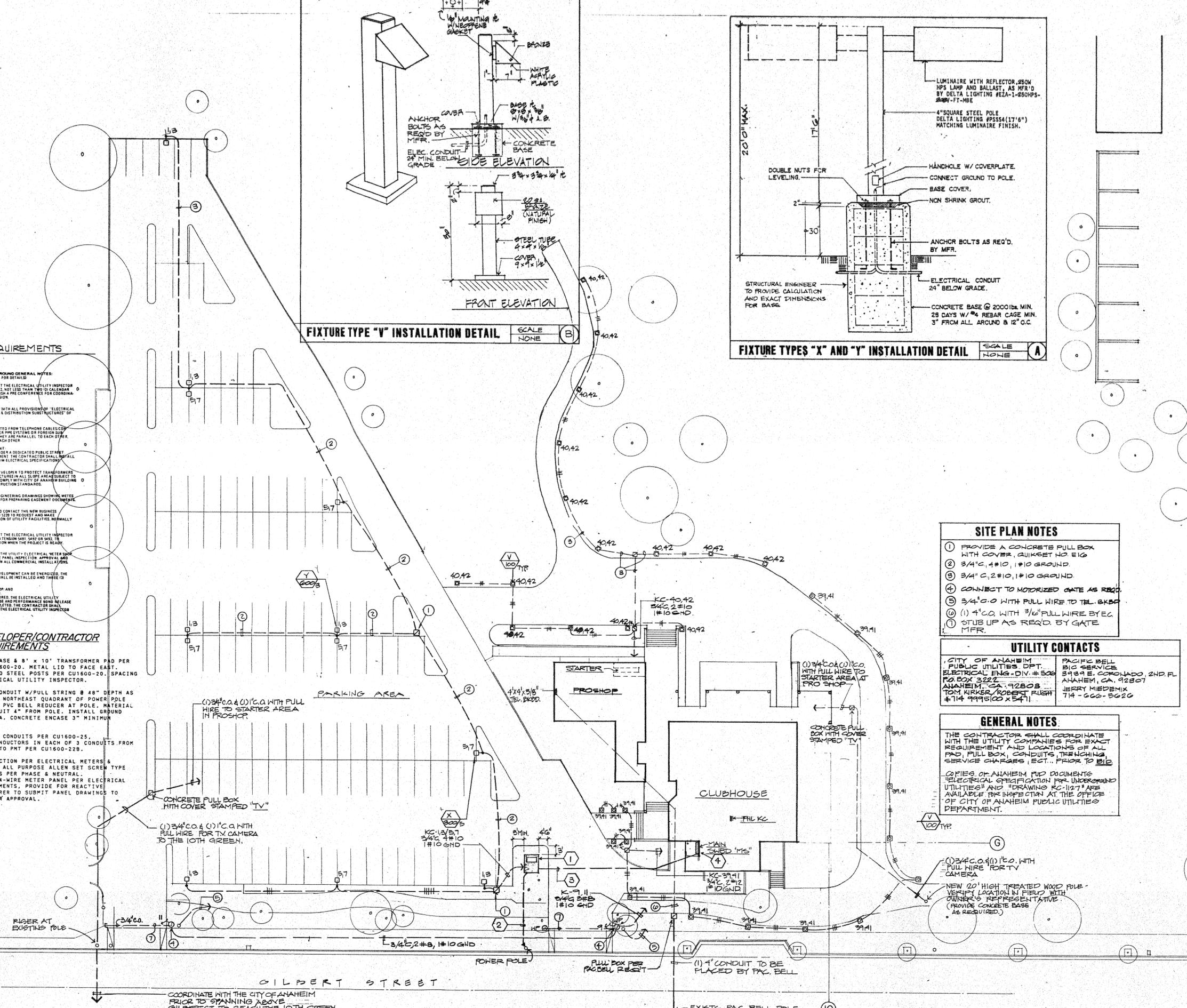
FIXTURE TYPES "X" AND "Y" INSTALLATION DETAIL SCALE NONE (A)

ANAHEIM PUD REQUIREMENTS

- ELECTRICAL UTILITY UNDERGROUND GENERAL NOTES:**
SEE SPECIFICATIONS FOR DETAILS
- THE DEVELOPER CONTRACTOR SHALL CONTACT THE ELECTRICAL UTILITY INSPECTOR AT THE 800 HOUR EXTENSION HOURS, 5:45 AM TO 5:00 PM, NOT LESS THAN TWO (2) CALENDAR WEEKS PRIOR TO BEGINNING WORK TO GET THE PRE-CONSTRUCTION MEETING FOR COORDINATION WITH THE ANAHEIM PUBLIC UTILITY DIVISION.
 - THE DEVELOPER CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF "ELECTRICAL SPECIFICATIONS FOR UNDERGROUND SYSTEMS & DISTRIBUTION SUBSTANCES" OF THE ELECTRICAL UTILITY.
 - CABLE SEPARATION:** ELECTRICAL POWER CABLES SHALL BE SEPARATED FROM TELEPHONE CABLES, COAXIAL CABLES, WATER LINES AND ALL OTHER PIPE SYSTEMS OR PORTION SUB-DISTRIBUTED BY AT LEAST 12 INCHES WHERE THEY ARE PARALLEL TO EACH OTHER, AND AT LEAST 4 INCHES WHERE THEY CROSS EACH OTHER.
 - CONDUIT IN STREET ALLEYS OR EASEMENTS:** FOR ALL UTILITY POWER CABLES CROSSING UNDER A DEDICATED PUBLIC STREET ALLEY OR STREET, THE DEVELOPER CONTRACTOR SHALL INSTALL THE UTILITY CONDUIT FOR CABLES AS PER CITY OF ANAHEIM ELECTRICAL SPECIFICATIONS.
 - RETAINING WALLS:** RETAINING WALLS SHALL BE INSTALLED BY DEVELOPER TO PROTECT TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT OR STRUCTURES IN ALL SLOPE AREAS SUBJECT TO EROSION, SEDIMENT AND INSTALLATION SHALL COMPLY WITH CITY OF ANAHEIM BUILDING ORDINANCES AND ELECTRICAL UTILITY CONSTRUCTION STANDARDS.
 - EASEMENT DOCUMENTS:** THE DEVELOPER CONTRACTOR TO PROVIDE ENGINEERING DRAWINGS SHOWING METES AND BOUNDS WITH ALL BEARINGS NECESSARY FOR PREPARING EASEMENT DOCUMENTS.
 - APPLICATION FOR SERVICE:** THE DEVELOPER CONTRACTOR IS REQUIRED TO CONTACT THE NEW BUSINESS REPRESENTATIVE AT THE 800 HOUR EXTENSION HOURS, 5:45 AM TO 5:00 PM, TO APPLY FOR SERVICE PRIOR TO INSTALLATION OF UTILITY FACILITIES, NORMALLY WEEKS.
 - CONSTRUCTION COORDINATION:** THE DEVELOPER CONTRACTOR SHALL CONTACT THE ELECTRICAL UTILITY INSPECTOR AS SOON AS THE 800 HOUR EXTENSION HOURS, 5:45 AM TO 5:00 PM, TO COORDINATE ELECTRICAL UTILITY INSTALLATION WHEN THE PROJECT IS READY.
 - SERVICE PANEL INSPECTION:** THE DEVELOPER CONTRACTOR SHALL NOTIFY THE UTILITY ELECTRICAL METER SHOP AT THE 800 HOUR EXTENSION HOURS FOR SERVICE PANEL INSPECTION APPROVAL AND RELEASE WHEN PANELS IS/ARE INSTALLED ON ALL COMMERCIAL INSTALLATIONS.
 - SERVICE RELEASE:** BEFORE THE ELECTRICAL SERVICE TO ANY DEVELOPMENT CAN BE ENERGIZED, THE STREET LIGHTING FACILITIES AS REQUIRED, SHALL BE INSTALLED AND THREE (3) INSPECTION RELEASES OBTAINED:
(i) CITY BUILDING DEPARTMENT;
(ii) ELECTRICAL UTILITY INSPECTOR;
(iii) UTILITY ELECTRICAL METER SHOP AND INSPECTOR.
WHEN STREET LIGHTING FACILITIES ARE REQUIRED, THE ELECTRICAL UTILITY INSPECTOR WILL HOLD THE INSPECTION RELEASE AND PERFORMANCE BOND RELEASE UNTIL STREET LIGHTING FACILITIES ARE COMPLETED. THE CONTRACTOR SHALL DELIVER THE PROPER STREET LIGHT TOOLS TO THE ELECTRICAL UTILITY INSPECTOR FOR INSTALLATION BY UTILITY CREW.

12KV UCID DEVELOPER/CONTRACTOR REQUIREMENTS

- 1 - 4" x 7" PMT VAULT W/BASE & 8" x 10" TRANSFORMER PAD PER CONSTRUCTION STANDARD CU1600-20. METAL LID TO FACE EAST. INSTALL 4" DIA. GALVANIZED STEEL POSTS PER CU1600-20. SPACING AS DIRECTED BY THE ELECTRICAL UTILITY INSPECTOR.
- 2 - 1" x 4" GREY PVC PRIMARY CONDUIT W/PULL STRING @ 48" DEPTH AS SHOWN. RISER TO BE ON THE NORTHWEST QUADRANT OF POWER POLE AND INSTALL 4" TO 3" GREY PVC BELL REDUCER AT POLE. MATERIAL PER CU1600-25. SPACE CONDUIT 4" FROM POLE. INSTALL GROUND RODS & WIRE PER CU1600-25A. CONCRETE ENCASE 3" MINIMUM THICKNESS ENTIRE LENGTH.
- 3 - 4" GREY PVC SECONDARY CONDUITS PER CU1600-25. W/4 - #70KCHIL AL THM CONDUCTORS IN EACH OF 3 CONDUITS FROM UNDERGROUND PULL SECTION TO PMT PER CU1600-22B.
- 4 - 1200A UNDERGROUND PULL SECTION PER ELECTRICAL METERS & SERVICES REQUIREMENTS W/3 ALL PURPOSE ALLEN SET SCREW TYPE DOUBLE BOLTED LANDING LUGS PER PHASE & NEUTRAL. 1200A 208Y/120V 3-PHASE, 4-WIRE METER PANEL PER ELECTRICAL METERS & SERVICES REQUIREMENTS. PROVIDE FOR REACTIVE METERING. PANEL MANUFACTURER TO SUBMIT PANEL DRAWINGS TO ELECTRICAL ENGINEERING FOR APPROVAL.



ELECTRICAL SITE PLAN SCALE: 1" = 20'-0"

- SITE PLAN NOTES**
- 1 PROVIDE A CONCRETE PULL BOX WITH COVER, QUIKSET NO. E10
 - 2 3/4" C, 4 #10, 1 #10 GND
 - 3 3/4" C, 2 #10, 1 #10 GND
 - 4 CONNECT TO MOTORIZED GATE AS REQ'D
 - 5 3/4" C.O. WITH PULL WIRE TO TEL. BKBP
 - 6 (1) 4" C.O. WITH 3/8" PULL WIRE BY EG
 - 7 STUB UP AS REQ'D BY GATE MFR.

UTILITY CONTACTS

CITY OF ANAHEIM PUBLIC UTILITIES DEPT. ELECTRICAL ENG. DIV. # 500 P.O. BOX 3222 ANAHEIM, CA. 92808 TOM KIRK/ROBERT RUGH #714 999-5241	PACIFIC BELL BIG SERVICE 3939 E. COLORADO 2ND. FL. ANAHEIM, CA. 92807 JERRY MIEDENIX 714-666-5020
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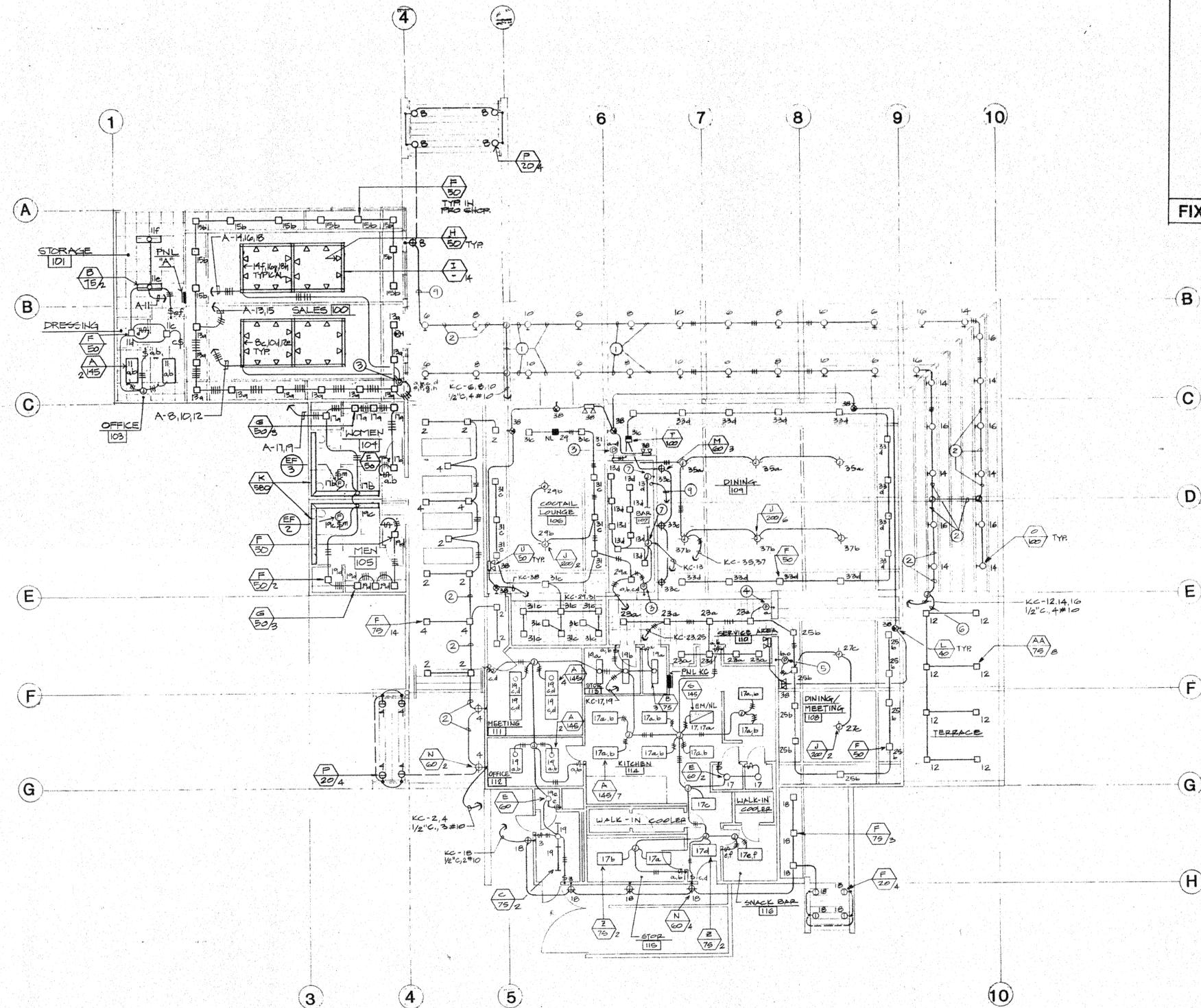
GENERAL NOTES:

THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES FOR EXACT REQUIREMENT AND LOCATIONS OF ALL PADS, PULL BOX, CONDUITS, TRENCHING, SERVICE CHARGES, ETC., PRIOR TO BID.

COPIES OF ANAHEIM PUD DOCUMENTS, ELECTRICAL SPECIFICATION FOR UNDERGROUND UTILITIES AND DRAWING RC-112-7 ARE AVAILABLE FOR INSPECTION AT THE OFFICE OF CITY OF ANAHEIM PUBLIC UTILITIES DEPARTMENT.

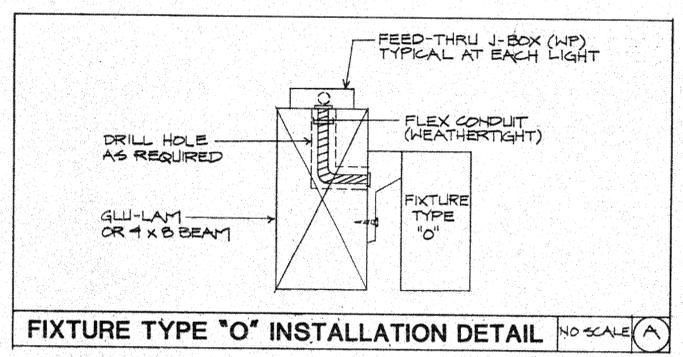
(1) 3/4" C.O. & (1) 1" C.O. WITH PULL WIRE FOR TV CAMERA

NEW 20' HIGH TREATED WOOD POLE - VERIFY LOCATION IN FIELD WITH OWNER'S REPRESENTATIVE (PROVIDE CONCRETE BASE AS REQUIRED)



- PLAN NOTES**
- ① 1/2" C, 4 #10
 - ② 1/2" C, 3 #10
 - ③ PROVIDE (4) LUTRON #N2000 INCANDESCENT DIMMERS MOUNTED IN GANG OF (4)
 - ④ PROVIDE A LUTRON #N2000 INCANDESCENT DIMMER
 - ⑤ PROVIDE (2) LUTRON #N2000 INCANDESCENT DIMMERS
 - ⑥ 1/2" C, 2 #10
 - ⑦ PROVIDE J-BOX FOR BAR CABINET LIGHTS (BY OTHER) VERIFY MOUNTING HEIGHT PRIOR TO ROUGH-IT
 - ⑧ PROVIDE A LUTRON #N2000 INC. DIMMER
 - ⑨ STUB UP THRU BAR CEILING 4 3/4" FROM PNL "KC" FOR FUTURE USE.

ELECTRICAL LIGHTING PLAN SCALE: 1/8" = 1'-0"



LIGHTING FIXTURE SCHEDULE					
SYM.	description	lamps		type	mounting
		no.	watts		
A 145	2' x 4' FLUORESCENT WITH PRISMATIC LENS. PRUDENTIAL #P-8524-48RS-PRA	4	34	F40T12 CW/RS SS	RECESSED
B 75	1' x 4' FLUORESCENT WITH WRAPAROUND LENS. PRUDENTIAL #P-1112-48-RS-WA	2	34	F40/T12 CW/RS SS	SURFACE
C 75	4 FT. OPEN STRIP WITH WIRE GUARD. PRUDENTIAL #P-WG-122-48-RS	2	34	F40/T12 CW/RS SS	SURFACE
D 75	8 FT. OPEN STRIP WITH WIRE GUARD. PRUDENTIAL #P-WG-122-96-RS	2	34	F40/T12 CW/RS SS	SURFACE
E 60	CEILING DRUM WITH LENS. HALO #H2550	1	60	A-19	SURFACE
F 50	DOWNLIGHT WITH CLEAR REFLECTOR. HALO #H7-426	1	50	R20	RECESSED
G 50	MINI-DOWNLIGHT WITH CLEAR REFLECTOR. HALO #H-99T-999	1	50	R20	RECESSED
H 50	TRACK LIGHT, WHITE WITH ROUND BACK. HALO #L854P	1	50	PAR30 CAP/NSP	TRACK
I -	TRACK (8 FT) HALO #L652P	-	-	-	PENDANT (W/STEM KIT, LENGTH AS REQUIRED)
J 200	PENDANT DECORATIVE FIXTURE. LIGHTOLIER DWG NO. CSI 5445	4	50	A-LAMP 1.F.	PENDANT
K 580	FLUORESCENT TROUGH. PRUDENTIAL #P-81	8	34	F40T12 CW/RS SS	RECESSED
L 40	EXIT LIGHT WITH SELF-CONTAINED BATTERY. HALO #H3619AL	2	20	T6 1/2	BACK MOUNTED
M 60	WALL SCONCE. HALO #H2570 VERIFY FINISH W/ARCH.	1	60	A-19	WALL MOUNTED @ +6'6" AFF
N 60	EXTERIOR WALL SCONCE. DIECAST ALUMINUM HALF LID & GUARD. WHITE. BEGA #2829	1	60	A-19	WALL MOUNTED @ +6'6" AFF
O 100	CYLINDER WALL BRACKET. HALO #H2351	1	100	A-19	MOUNTED TO SIDE OF TRELLIS BEAM
P 20	STEP LIGHT C.W. COLE #P2159P-2	2	8	T5	FLUSH MOUNTED
Q 100	CEILING LIGHT PACK. DEVINE #DL55-70-HPS-120-RC1	1	70	HPS	SURFACE OVER FLUSH OUTLET BOX
R 75	SAME AS TYPE "D" EXCEPT WITH BATTERY PACK. PRUDENTIAL #PEL-WG-122-48-RS	2	34	F40T12 CW/RS SS	SURFACE
S 145	SAME AS TYPE "A" EXCEPT WITH BATTERY PACK. PRUDENTIAL #PEL-8524-48RS-PRA	4	34	F40T12 CW/RS	RECESSED
T 100	WALL WASHER WITH REFLECTOR HALO #	1	100 MAX.	A19	RECESSED
U 50	DUAL CYLINDER SELF-CONTAINED EMERGENCY LIGHT. DUAL-LITE #ESC2-2-1	-	-	-	SURFACE
V 100	WALKWAY LIGHTING MOUNTED ON STEEL TUBE SHAPER LIGHTING PRODUCTS SPEC NO. 9D-514B (208V)	1	70	HPS	SEE DETAIL "B" SHEET E-1
X 300	POLE MOUNTED SINGLE FIXTURE DELTA #EA-1-250HPS-208V-FT-MBE	1	250	HPS	SEE DETAIL "A" SHEET E-1
Y 600	POLE MOUNTED DOUBLE FIXTURE DELTA #EA-2-250HPS-208V-FT-MBE	2	250	HPS	SEE DETAIL "A" SHEET E-1
Z 75	SAME AS TYPE "A" EXCEPT 2-LAMP	2	34	F40T12 CW/RS	RECESSED
AA 15	DOWNLIGHT WITH 30° SLOPE ADAPTOR HALO # HIT-42G-HSA-G-30	1	15	R30	RECESSED

(A) TRACK LIGHTING NOTE
PROVIDE ALL STRAIGHT AND 90° CONNECTORS AS REQUIRED TO MOUNT TRACKS AS SHOWN.

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(714) 756-8654

RWRPASCOE
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31 Klamath Drive, #11 - Costa Mesa, California 92626 - 714-551-9821
3780 North St. - Anaheim, California 92804 - 714-261-0800

JOB No. 88-122
Drawing Title:
ELECTRICAL LIGHTING PLAN
LIGHTING FIXTURE SCHEDULE

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Architecture, Planning, Urban Design
2959 Monterey-Salinas Highway
Monterey, California 93940
Telephone 408 375-9594



H.G. "DAD" MILLER GOLF COURSE CLUBHOUSE

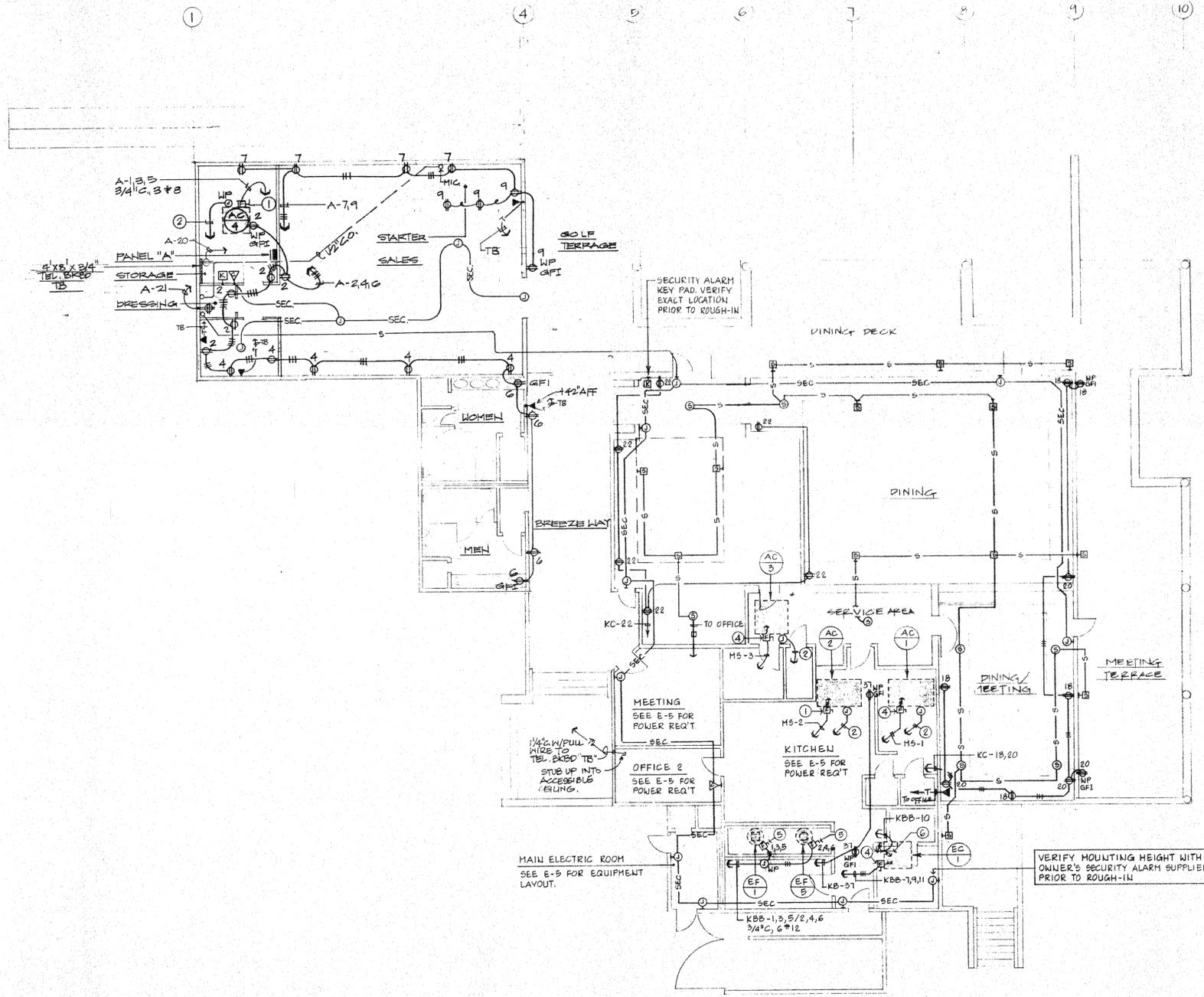
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VOLTAGE/PHASE		BUS SIZE		MAIN SIZE		MOUNTING SURFACE	
ITEM	FA	FE	FE	FE	FE	FE	FE
EF-5	60	60	60	60	60	60	60
EC-1	60	60	60	60	60	60	60
SPACE							



MECHANICAL CONTROL NOTES

- EF-5, EF-4 AND EC-1 ARE INTERLOCKED. EC TO PROVIDE THE FOLLOWING:
-A NEMA SIZE (0), 250V-3PH-3W STARTER WITH O.L. RELAYS AND 120V COIL AND AUX. CONTACT.
-A WALL SWITCH WITH PILOT LIGHT WITH ENGRAVED COVERPLATE: "FAN ON/OFF"
-A WALL SWITCH WITH PILOT LIGHT WITH ENGRAVED COVERPLATE: "COOL ON/OFF" FOR P-1 LOCATED IN EC-1.
-WIRE EF-4 VIA EF-5 STARTER AUX. CONTACT.
 - EF-1, EF-6, CP-1 ARE INTERLOCKED. EC TO PROVIDE A 120V, 3P RELAY "R-2".
 - PROVIDE A 120V, 3P RELAY "R1" FOR INTERLOCKING AC-1, 2, & 3.
 - PROVIDE A 120V, 1P RELAY "R3" FOR EF-4.
 - RELAYS R1, R2 & R3 COILS SHALL BE CONTROLLED BY A 7DAY-24HR. - 1PST TIME CLOCK.
 - EC TO PROVIDE ALL INTERLOCKING LINE VOLTAGE WIRING AND CONDUITS.
 - MOUNT ALL STARTERS, RELAYS AND TIME CLOCKS IN A NEMA 1 ENCLOSURE WITH COVER. SIZE AS REQUIRED.
- EC TO OBTAIN SHT. M-1 PRIOR TO E.I.D. REFER TO MECHANICAL CONTROL DIAGRAMS AND NOTES RELATING TO DIVISION 16. PROVIDE ALL TIME CLOCKS, RELAYS, STARTERS...ETC, AS DIRECTED BY THE MECHANICAL ENGINEER.

PLAN NOTES

- NEMA 3R, 60A/3P DISCONNECT SWITCH FUSED PER EQUIPMENT NAMEPLATE.
 - 1/2" C.O. WITH PULL WIRE DOWN TO THERMOSTAT VIA TIME CLOCK AND BY-PASS TIMER. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN. ELEC. CONTRACTOR TO PROVIDE TIMECLOCK AND BY-PASS TIMER.
 - SAME AS NOTE 1 EXCEPT 100A.
 - SAME AS NOTE 1 EXCEPT 30A.
 - DISCONNECT SWITCH PROVIDED WITH EXHAUST FAN UNIT. EC TO MAKE ALL FINAL CONNECTIONS.
 - CONNECT TO P-1 LOCATED IN EC-1 UNIT.
- ALL ROOF MOUNTED OUTLETS AND DEVICES SHALL BE WEATHERPROOF.
- SECURITY AND PA SYSTEMS
REFER TO SYMBOL LIST ON SHT. E-2 FOR CONDUIT AND BACK BOX REQ'Y.

ELECTRICAL POWER - SECURITY -PA PLAN SCALE: 1/8" = 1'-0"

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ELECTRICAL ENGINEERS - LIGHTING CONSULTANTS
151 Camino Drive, #4 - Costa Mesa, California 92626 - 714-441-9417
3780 Tenth Street - Riverside, California 92504 - 714-789-1800

JOB No. 88-122
Drawing Title:
ELECTRICAL POWER PLAN

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 Telephone 408 375-9594



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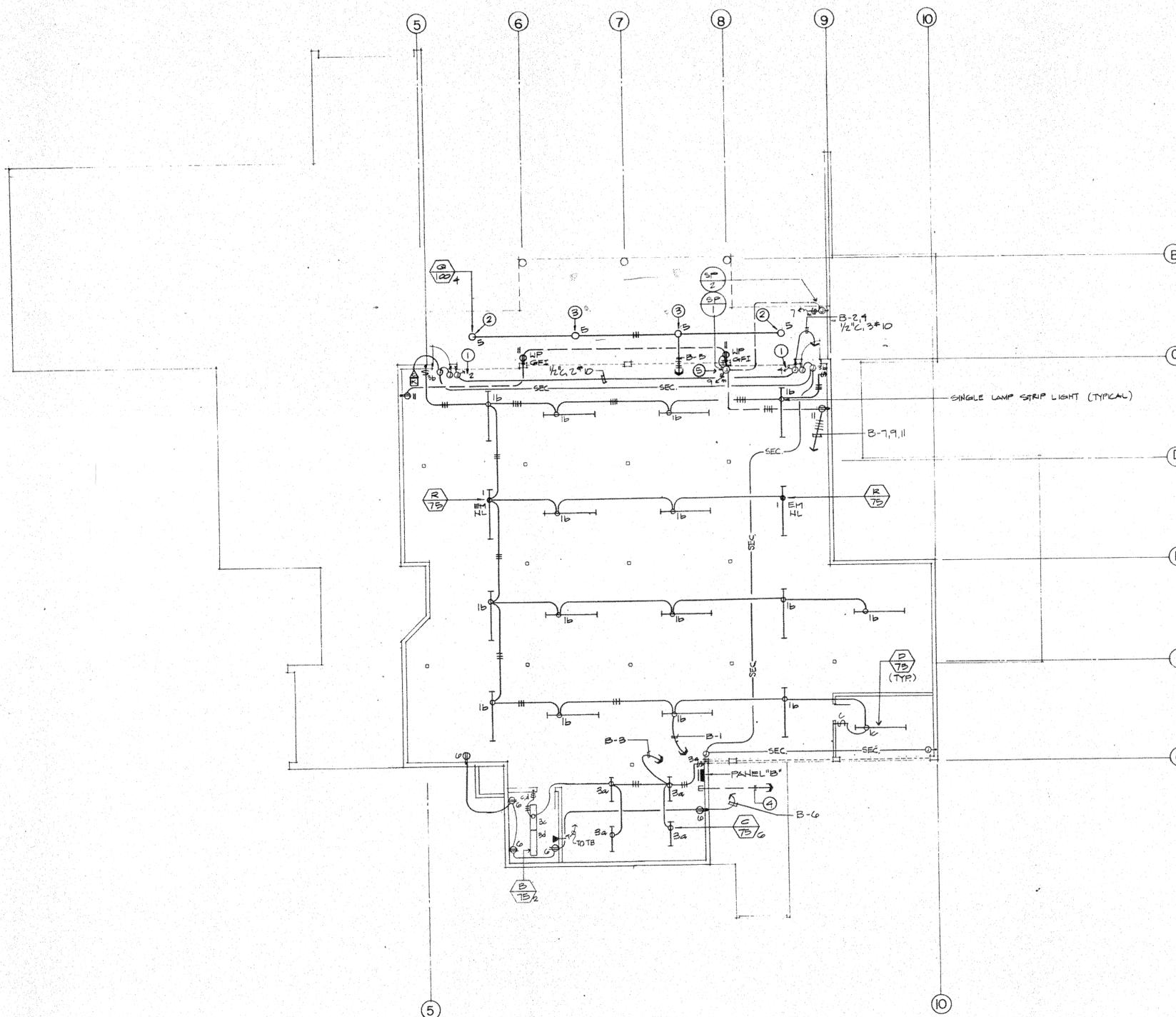
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 2385 North Street - Riverside, California 92501 - 714-501-8800

JOB. No. 88-172

Drawing Title:
**CART STORAGE
 LIGHTING AND POWER PLAN**

Scale: 1/8" = 1'-0" Sheet No.:

E-6
 OF 6
 Date: 10/31/89



CART STORAGE - LIGHTING AND POWER PLAN SCALE: 1/8" = 1'-0"

- PLAN NOTES**
- ① EXTEND AND CONNECT TO MOTORIZED DOOR MOTOR AND CONTROL SWITCH AS REQUIRED. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
 - ② FIXTURE TO BE TURNED ON/OFF BY PHOTOCELL.
 - ③ FIXTURE TO BE TURNED ON/OFF BY PHOTOCELL AND TURNED OFF BY TIMER.
 - ④ CONDUITS STUB IN FROM MAIN SWITCHBOARD "MS" FOR FUTURE CART CHARGERS. SEE SINGLE LINE DIAGRAM ON E-2 FOR CONDUIT SIZE.
 - ⑤ CONNECT TO SUMP PUMPS & CONTROL PHLS AS DIRECTED BY EQPT MFR.
 - ⑥ ALL PE BEAMS CONDUIT STUB UP 18" FROM FLOOR LEVEL.

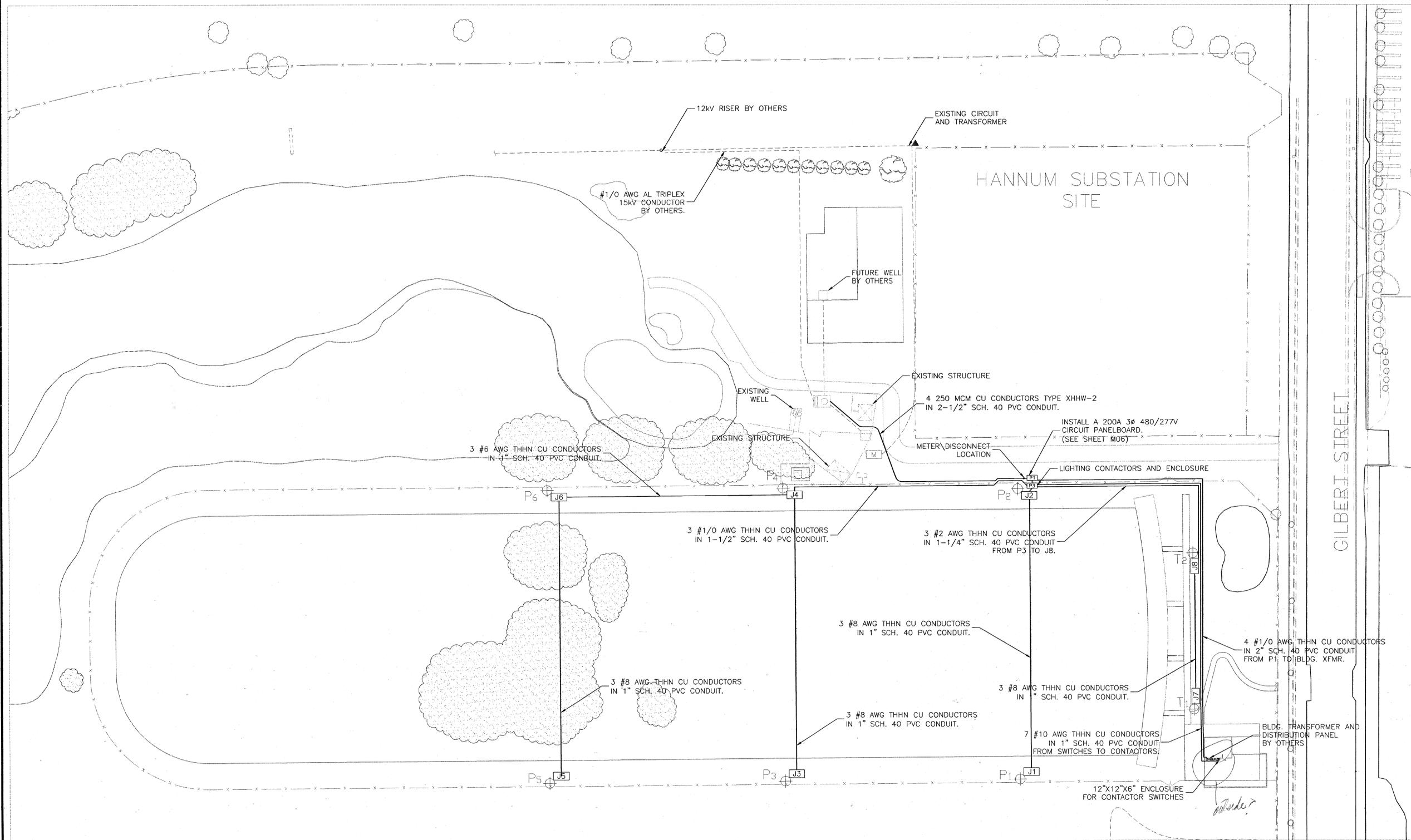
Driving Range Lighting System Maps

LEGEND

- UNDERGROUND CONDUCTORS, SIZED AS INDICATED ON DRAWING
- EXISTING OH CONDUCTORS AS NOTED ON DRAWING
- UG CONDUCTORS, EXISTING OR PROVIDED BY OTHERS, AS NOTED ON DRAWING
- Jx 13 X 24 X 18" ELECTRICAL LIGHTING PULL BOX OR AS APPROVED.
- Px 70' LIGHT POLE WITH 3 MOUNTED FIXTURES. SEE SHEET M07 FOR DETAILS
- Tx 70' LIGHT POLE WITH 7 MOUNTED FIXTURES. SEE SHEET M07 FOR DETAILS
- P 480/277, 3Ø 250A PANELBOARD. SEE SHEET M06 FOR DETAILS
- H ELECTRICAL PULL-BOX

NOTES

1. SEE SHEET M06 FOR PANEL SCHEDULE AND ELECTRICAL DETAILS.



PROJECT NO.	T08029
SHEET NO.	M05
FILE NAME:	21920
DATE	11-03-03
CHECKED BY	JRS
DATE	11-03-03
DESIGNED BY	GARY TASSANER
DATE	08-14-03
APPROVED BY	EARL S. KEVIN
DATE	
PROJECT MANAGER	FORSGREN ASSOCIATES / INC.
PROJECT ENGINEER	FORSGREN ASSOCIATES / INC.
PROJECT MANAGER	FORSGREN ASSOCIATES / INC.

TIGER WOODS LEARNING CENTER

FORSGREN ASSOCIATES / INC.
 3000 SALT LAKE CITY, UTAH 84111
 (801) 384-4785

DAD MILLER DRIVING RANGE
LIGHTING - POWER DISTRIBUTION PLAN

TASCO ENGINEERING INC.
 887 NORTH 100 EAST, SUITE 4 • UTAH, UTAH 84043 • (801) 766-6900

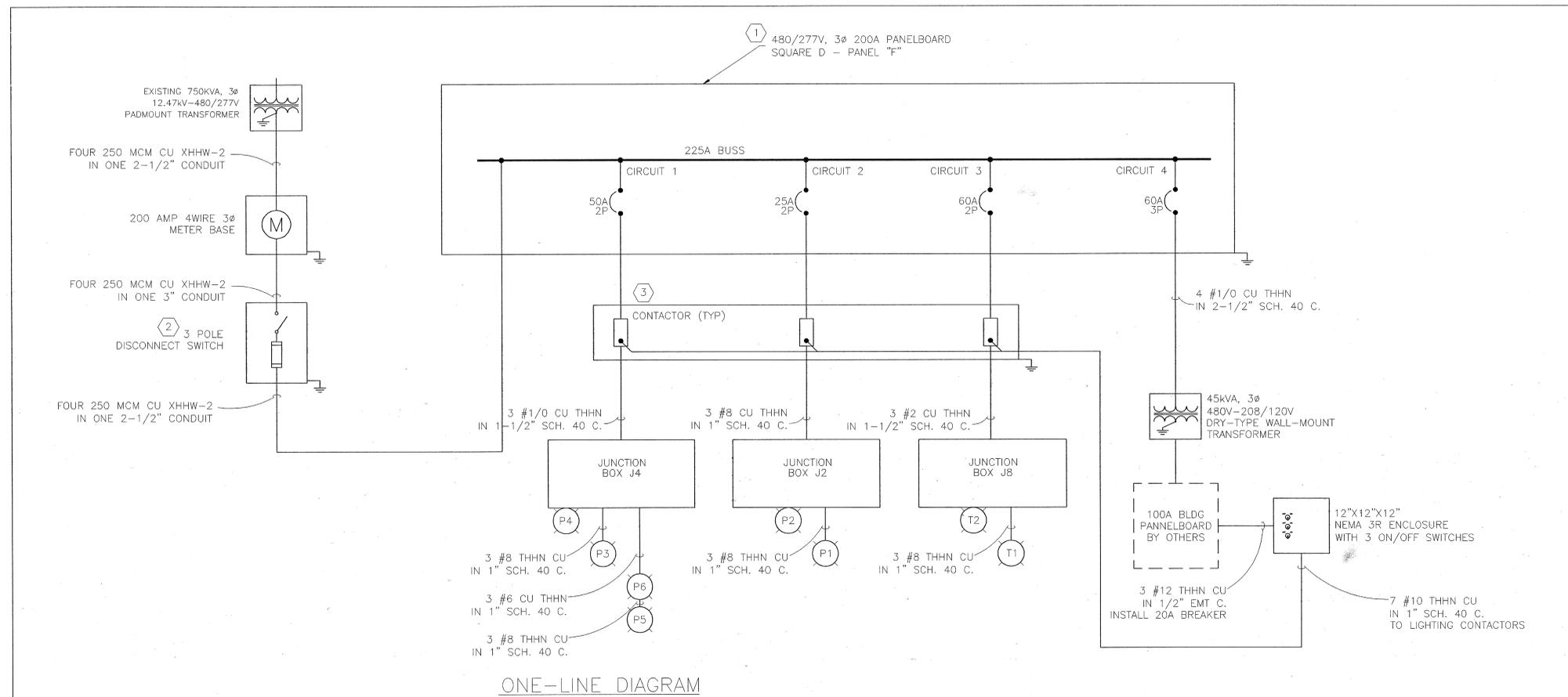
150
150
120
21920 140

TYPE : 18CKT DISTRIBUTION PANEL
 VOLTAGE : 480/277V, 3 ϕ , 60 Hz
 AMPERES : 225 FRAME : --
 LUGS : 225 MOUNTING : --
 HEIGHT : 30 WIDTH: 20 DEPTH: 5.75
 FEEDERS/CONDUIT: --
 SERV. FROM: -- LOC: --

CIRCUIT DESCRIPTION	CIR. BKR TRIP POLE	CR	ϕ A	ϕ B	ϕ C	CIR. BKR TRIP POLE	CIRCUIT DESCRIPTION
Circuit #1	50	2	9600			2	Space
"		3	9600			2	Space
"		4	11200			2	Circuit #3
Space		5					"
Circuit #2	25	2	4800			6	Space
"		7	4800			8	Space
"		9	4800			10	Space
Space		11				12	Space
Space		13	15000			14	Bldg. Transformer - 45kVA
Space		15	15000			16	"
Space		17	15000			18	"
TOTAL VOLT-AMPS	96200		29400	40600	26200		85 Amps on High Leg

DETAIL A: PANEL SCHEDULE

1) 38



- ① SQUARE D PANEL "F" WITH NF MLO PANELBOARD (INTERIOR), NF PANELBOARD CONSISTING OF: 480y277 VAC 3PH 4W 60 HZ, 225A MAIN LUG.
 - ② SQUARE-D 200AMP, 3 POLE, NEMA 3R DISCONNECT SWITCH.
 - ③ 60 A, 2-POLE LIGHTING CONTACTOR, ALLEN BRADLEY 500L-COBR92, OR APPROVED EQUAL.
- 401 / 1138 SF

NO.	REVISIONS	BY	DATE
1	REGISTER POWER	JK	12/15/05
2	MODIFY BREAKERS AND TRIP	JK	03/04/06
3	NO	NO	NO

DESIGNED: 8-14-03 DATE: GARY TASSANIER
 PROJECT ENGINEER: GARY TASSANIER
 APPROVED: DATE: EARL S. KETUP
 PROJECT MANAGER: EARL S. KETUP

TIGER WOODS
LEARNING CENTER

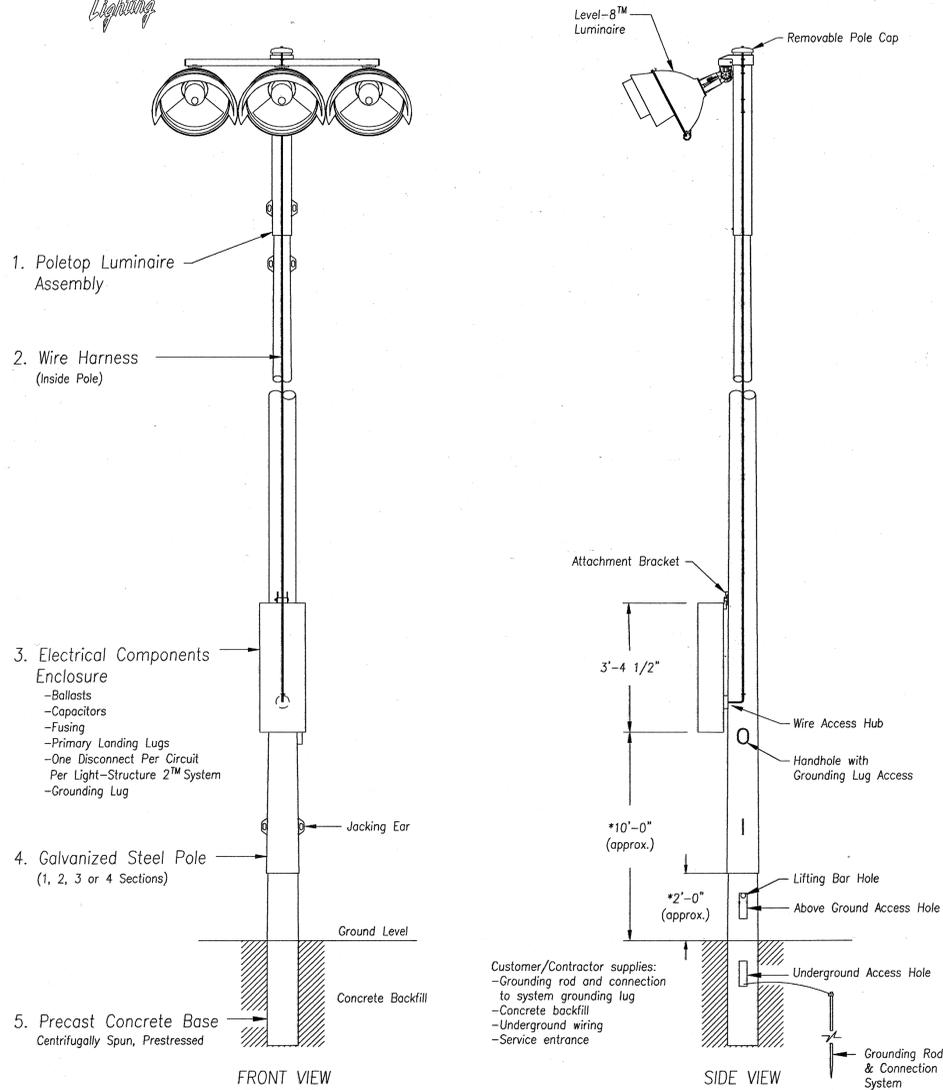
FORSYTH ASSOCIATES / INC.
 3000 SALT LAKE CITY, UT 84111
 (801) 364-4785

TASCO ENGINEERING INC.
 887 NORTH 100 EAST, SUITE 4 • UEN 0946 8643 • (801) 766-9500

PROJECT NO: T08029
 SHEET NO: M06
 FILE NAME: SCALE: N/A



Typical Light-Structure 2™ System Detail - 3 Fixtures

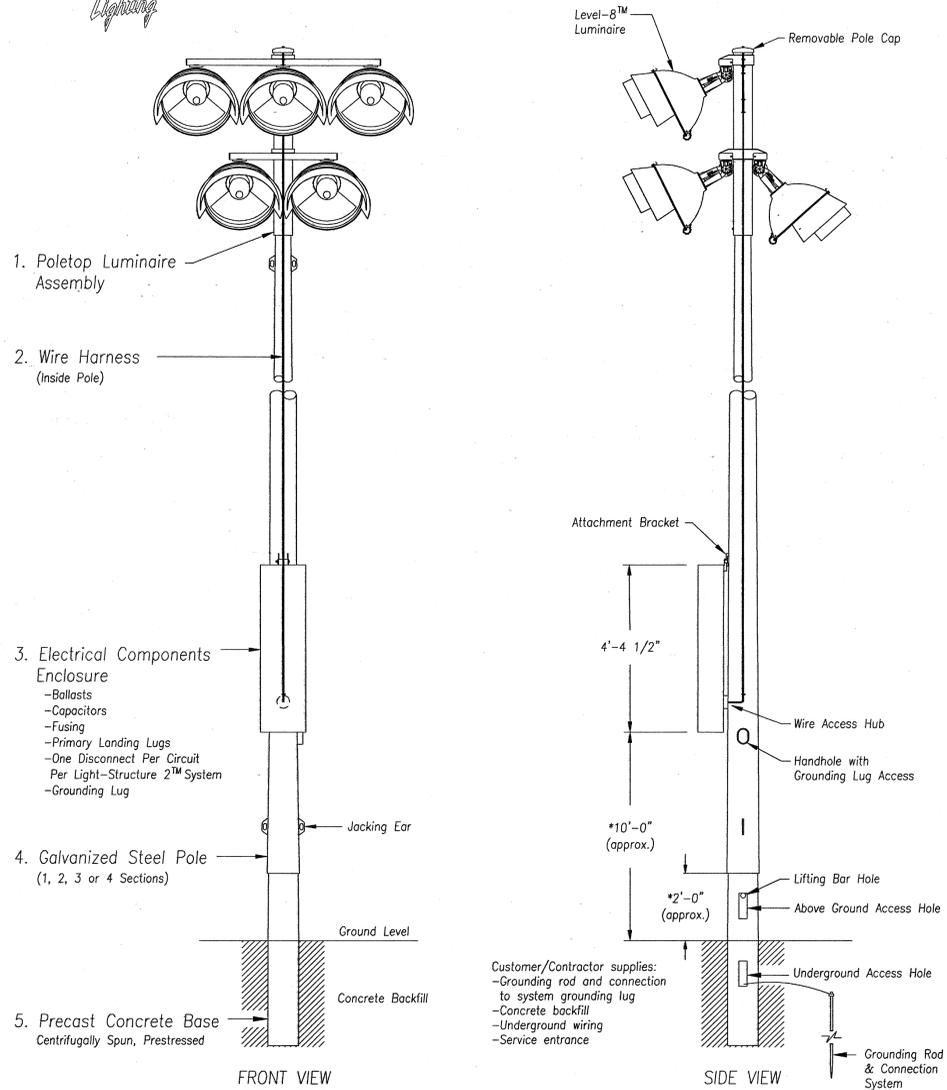


- Notes:
1. This drawing is not to scale.
 2. * This dimension for reference only. Variances may occur depending on steel pole tolerances, concrete tolerances, galvanizing thickness, hole depth accuracy.
 3. Musco provides a base installation bar, an installation level modified for taper, and installation wedges.
 4. Provisions for auxiliary equipment such as speaker or security lighting can be incorporated.
 5. Copyright 1991, 2002 Musco Lighting. Patents issued and pending.

LV8-03



Typical Light-Structure 2™ System Detail - 7 Fixtures



- Notes:
1. This drawing is not to scale.
 2. * This dimension for reference only. Variances may occur depending on steel pole tolerances, concrete tolerances, galvanizing thickness, hole depth accuracy.
 3. Musco provides a base installation bar, an installation level modified for taper, and installation wedges.
 4. Provisions for auxiliary equipment such as speaker or security lighting can be incorporated.
 5. Copyright 1991, 2002 Musco Lighting. Patents issued and pending.

LV8-05



887 NORTH 100 EAST, SUITE 4 • OGDEN, UTAH 84403 • (801)766-6900

PROJECT NO. T08029

SHEET NO. M07

FILE NAME: SCALE: NTS

DAD MILLER DRIVING RANGE

LIGHTING - POLE/FIXTURE DETAIL



1070 EAST 800 SOUTH, SUITE #200
SALT LAKE CITY, UTAH 84111
(801) 384-4785

TIGER WOODS
LEARNING CENTER

NO.	REVISIONS	DATE	BY	DATE
2	REVISED	11-03-03	JSK	
1	REVISED	11-03-03	JSK	

DRAWN: 11-03-03 JSK
 CHECKED: 11-03-03 JSK
 DESIGNED: 02-23-03 GARY T. ASSAINE
 PROJECT ENGINEER: GARY T. ASSAINE
 PROJECT MANAGER: EARL S. KEMP
 APPROVED: DATE: PROJECT MANAGER: FORSGREN ASSOCIATES / INC.

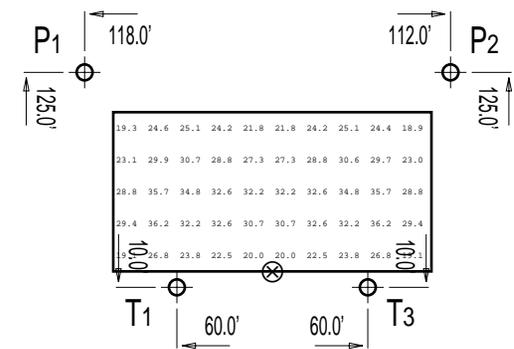
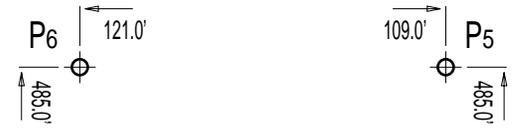
Anaheim Dad Miller Golf Course Driving Range

Fixture Type: LV-8 MZ
 Lamp Type: 1500W MZ
 Lumens: 155000
 File # / Date: 104103dm3 / 17-Nov-2004
 Prepared By: MARK BELLOMA

EQUIPMENT LISTING						
Pole count	Pole location	Mounting height	Pole size	Elev.	Fixt. /unit	Kilow /unit
6	P1-P6	70'	70'	0'	3	4.8
2	T1-T3	70'	70'	0'	5	8



INITIAL ILLUMINATION	
RECTANGLE	
HORIZONTAL FOOTCANDLES	
ON PLANE AT Z= 3	
Target Points:	50
Average:	27.68
Maximum:	36.24
Minimum:	18.86
Avg/Min:	1.467
Max/Min:	1.921
UG (Adj pts)	1.537
CV:	0.183
Number of Luminaires:	28
* KW Consumption:	44.80
** Average Tilt Factor:	0.932
*** Recoverable Light Loss Factors: x	1.000
Total Light Loss Factor (LLF)	0.932



*Refer to amperage draw for electrical sizing.

** Additional non-recoverable Light Loss Factors are design constants equal to 1.0 at maintained illumination levels.

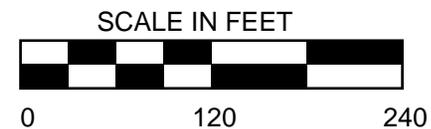
*** Includes Luminaire Dirt Depreciation and Lamp Lumen Depreciation - per IESNA Lighting Handbook 9th Edition, page 9-17.

NOTE: Light level averages and uniformities are guaranteed by MUSCO. However, individual location measurements may vary from computer predictions.

INSTALLATION REQUIREMENTS:
Results assume +-3% nominal voltage at load side of ballast box and poles located within 3 feet of design locations.

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⊗ = Pole Location



Pole location dimensions are relative to 0,0 reference point ⊗.

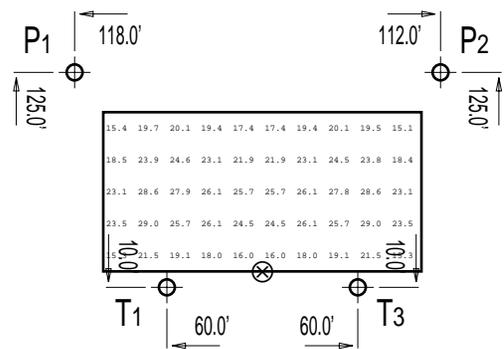
Anaheim Dad Miller Golf Course Driving Range

EQUIPMENT LISTING						
Pole count	Pole location	Mounting height	Pole size	Elev.	Fixt. /unit	Kilow /unit
6	P1-P6	70'	70'	0'	3	4.8
2	T1-T3	70'	70'	0'	5	8

Fixture Type: LV-8 MZ
 Lamp Type: 1500W MZ
 Lumens: 155000
 File # / Date: 104103dm3 / 17-Nov-2004
 Prepared By: MARK BELLOMA



MAINTAINED ILLUMINATION RECTANGLE HORIZONTAL FOOTCANDLES ON PLANE AT Z= 3	
Target Points:	50
Average:	22.14
Maximum:	28.99
Minimum:	15.09
Avg/Min:	1.467
Max/Min:	1.921
UG (Adj pts)	1.537
CV:	0.183
Number of Luminaires:	28
* KW Consumption:	44.80
** Average Tilt Factor:	0.932
*** Recoverable Light Loss Factors: x	0.800
Total Light Loss Factor (LLF)	0.745



*Refer to amperage draw for electrical sizing.

** Additional non-recoverable Light Loss Factors are design constants equal to 1.0 at maintained illumination levels.

*** Includes Luminaire Dirt Depreciation and Lamp Lumen Depreciation - per IESNA Lighting Handbook 9th Edition, page 9-17.

NOTE: Light level averages and uniformities are guaranteed by MUSCO. However, individual location measurements may vary from computer predictions.

INSTALLATION REQUIREMENTS:
Results assume +/-3% nominal voltage at load side of ballast box and poles located within 3 feet of design locations.

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⊗ = Pole Location



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