

MEMORANDUM

DATE: July 28, 2009

TO: Design Review Board

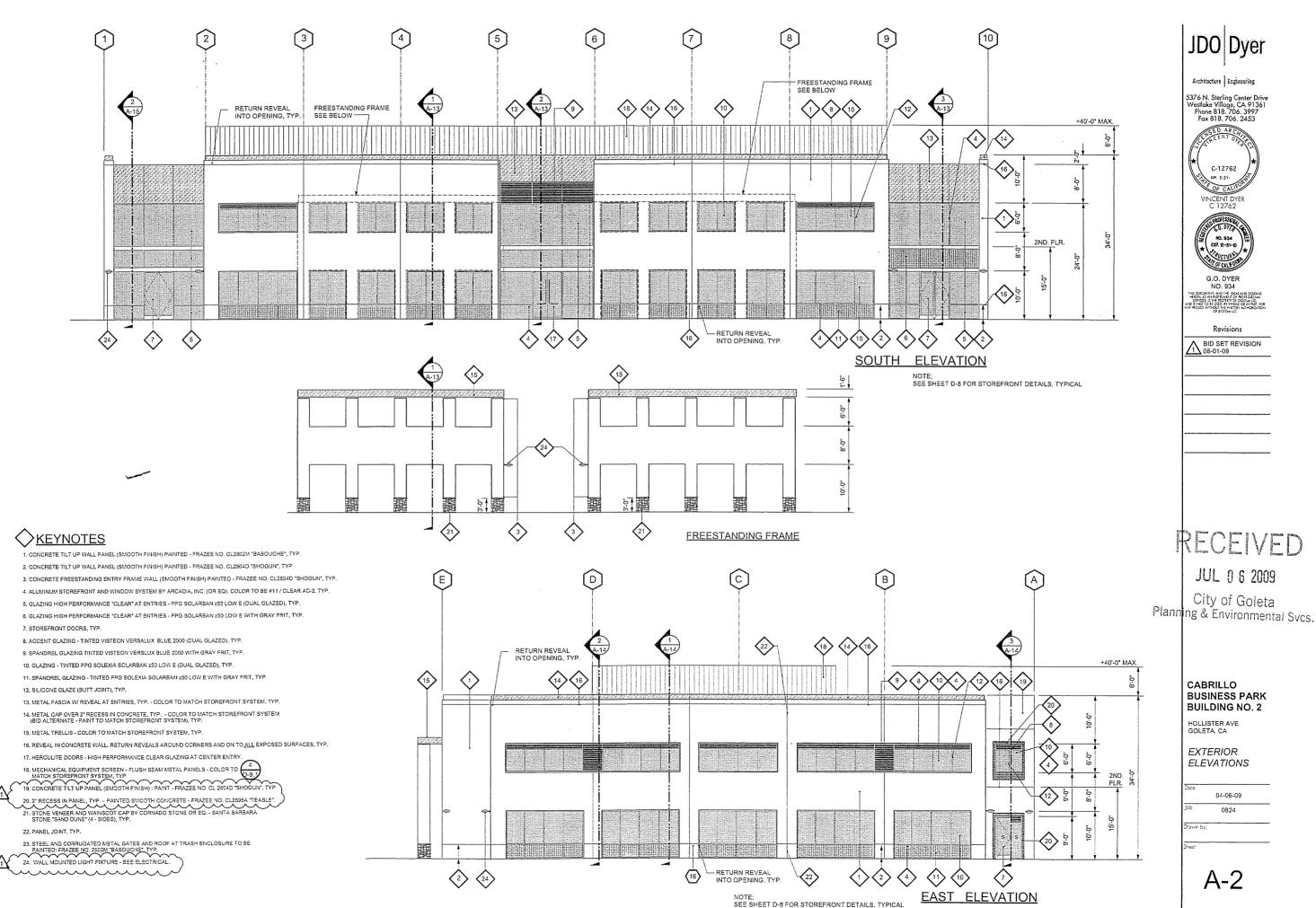
FROM: Cindy Moore, Senior Planner

SUBJECT: DRB Meeting of 08-11-09, Item # I-1, Cabrillo Business Park

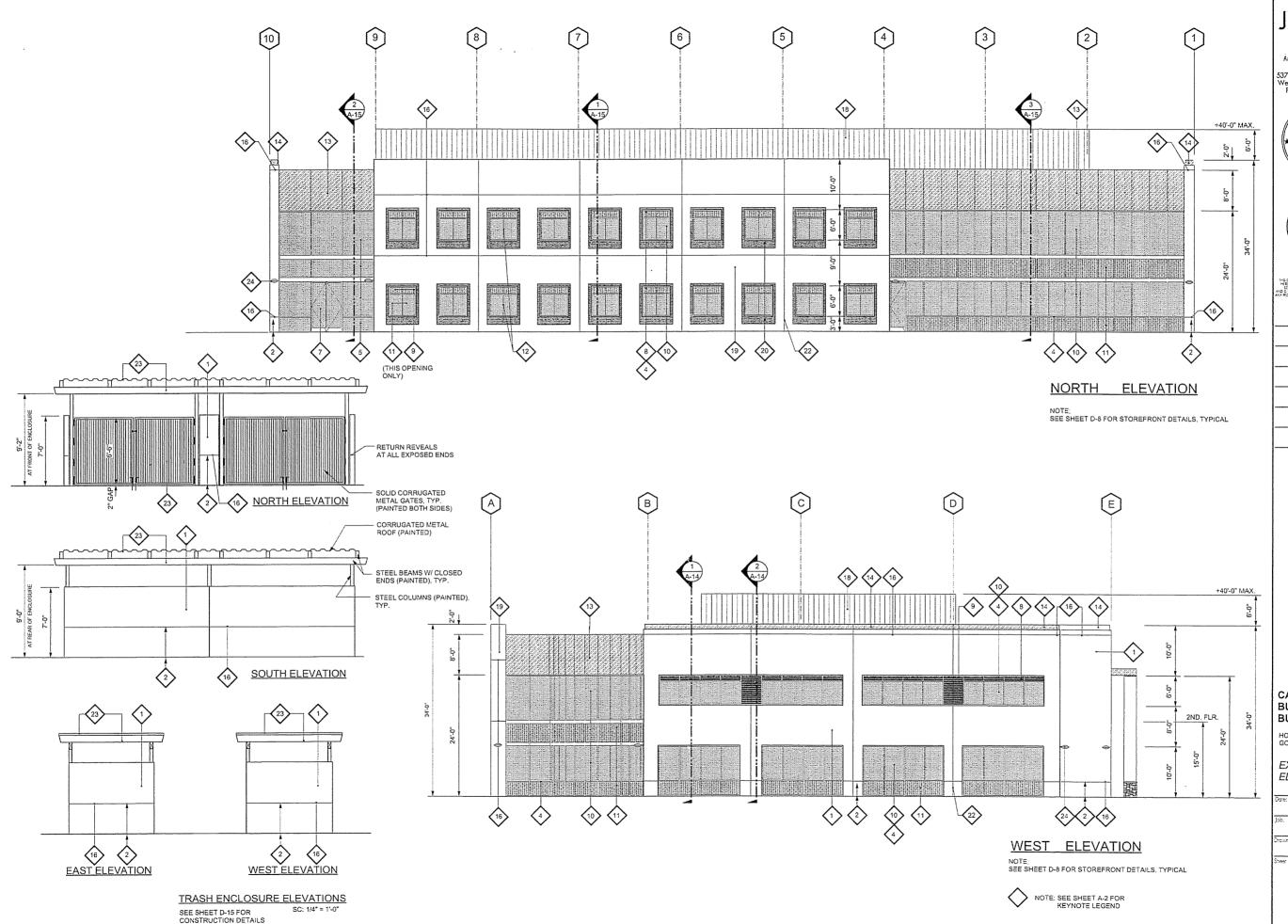
Item # I-1 on your agenda for August 11, 2009 includes Revised Final review of Building 2 of the Cabrillo Business Park project for the exterior building lighting. On April 14, 2009, the DRB granted Final approval for Building 2 and associated improvements in the northeast portion of the property including the Hollister Avenue entry and a portion of the internal drive, grading, and Hollister Avenue street and frontage improvements. No exterior building lighting was included in that approval.

Attachments:

- Project Plans Received July 6, 2009 (Sheets A-2, A-3, E-1.0, E-8.0, E-8.1)
- MiniFlex lighting details
- KIM lighting details
- Hydrel lighting details



SC: 1/8" = 1'-0"



JDO Dye

Architecture Engineering

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VINCENT DYER C 12762



G.O. DYER
NO. 934
SCOULDS, AD HE DESARD SECURITY
SENSING HEREST OF POLICIONAL SENSING HEREST OF POLICIO

Revisions

CABRILLO BUSINESS PARK BUILDING NO. 2

HOLLISTER AVE GOLETA, CA

EXTERIOR ELEVATIONS

> 04-06-09 0824

,

A-3

GENERAL NOTES

- THE ELECTRICAL CONTRACTOR SHALL BE LICENSED TO PERFORM THE WORK CUITLINED, SHALL BE FAMILIAR WITH ALL LOOAL CODES HAVING JURISCOTTOR, AND SHALL RIVERY THAT ALL EXTERNS CONTRACTOR AND PROPERTY THAT ALL EXTERNS CONTRACTOR THE THREE COLOR PROPERTY THAT ALL EXTERNS CONTRACTOR THE SHALL RIVERY THAT ALL EXTERNS CONTRACTOR THE SHALL RIVERY THAT ALL EXTERNS CONTRACTOR THAT ALL EXTERNS AND THE PROPERTY AND TO HAVE MODE ALL EXTERNS THE SHALL RIVERY THAT ALL EXTERNS AND TO HAVE MODE ALL EXTERNS THE SHALL RIVERY THAT ALL EXTERNS AND THAT THE WILL BE SO ADDITIONAL COSTS RECURSITED FOR ANY ADDITIONAL RECURSITED THAT ALL EXTERNS THAT ALL EXTE

- THE DRAWNING SHOW THE REQUIRED SIZE AND PORTS OF TERMINATION OF THE CONDUCTS, THE MARKET AND SIZE OF WRIGHT THEREN, AND SUBGEST THE PROPER ROUTE FOR THE CONDUCTS. HOWEVER, IT SHALL BE THE REPORTEDIBILITY OF THE BLIDTINGAL CONTRACTOR TO BESTALL THE CONDUCTS WITH A MINISTAN BLANKER OF BEICE IN SIZE A MARKET AS SECONE TO CONFORM TO THE STRUCTURE, AND CONDUCTORIO, PRIMINATE SIZE PROPOCIAL.
- 11. YERETY THAT A PERMANENT MEANS OF ACCESS TO ALL ELECTRICALLY OPERATED EQUIP-

- 15. THE RECTRICAL CONTRACTOR SHALL RECEIVE, STORE, AND INSTALL ALL LIGHTING POCTURES, LAMPS, APPLIANCES AND THE RECTRICAL ITEMS PURSHING BY CHARGE.
- 94. IN THE EVENT OF FAILURE OF MAY ELECTROAL WORK DURING THE LIFE OF THE GUARANTHE, THE ELECTROAL CONTRACTOR SHALL MEMAR OR REPLACE THE DEPROTING WORK AND SHALL MINDAY, REPLACE OR RESTORE, AT NO COST TO THE CONTRACT, MAY PART OF THE STRUCTURE OR BULDING WHICH MAY BE DAMAGED AS THE DIRECT PROBLET OF THE CONTRACTORS MANING REPLACEMENT OF THE DEPROTINE WORK.
- 15. ALL CONDUCTORS SHALL BE COPPER WITH THREATHME SIGLLATION, UNLINE CITHERWISE MOTED ON THE DRAWINGS OR SPECIFICATIONS. ALL CONDUCTOR TERMINATIONS SHALL BE RATED AT 72YO. DRAWINGS.
- 15. ALL METALLIO GAS AND/OR WATER PIPES WHICH PASS IN CLOSE PRODUCTY TO THE RESTRICAL CONDUCTS, CUTLETS, SCUPMENT, ETC. SHALL BE SONDED TO THE RESTRICA

- St. THE BLECTRICAL ECUPHENT SHALL BE TESTED AND BE PLACED IN WORKING ORDER BEFORE THE BETALLATION SHALL BE COMMONISHED COMPLETE. ALL PARTS OF THE BLECTRICAL STETIES SHALL BE CLARACTED TO PREPORT THE RECURSED PRINTINGS IN ACCORDANCE WITH THE PREFORMANCE RECURSEMENTS WHICH ARE EXCLATED OR SHOPE SUCH PARTICIPAL OF RECURSE THE ARE NOT STATES, BALL PREPORTS BY AN ACCORDANCE WITH THE PREPARATE PROPERTY ARE NOT STATES, BALL PREPARATE AND STATES A

- 23. WHERE FINAL CONSECTIONS ARE TO BE MADE TO BOURMENT FURNISHED TRADES, CETAM THE REQUIRED ROUGH AT DESIREMENT AND CONSECTION FOR EACH TIBLE, AND ASSUME FULL RESPONT THE MEAT AND WORKSAMELES SETALLATION OF THE CONCULT AND T
- SE. THE SECURICAL CONTRACTOR SHALL OSTAN AND PAY ALL COSTS FOR PERMITS AND PROPERTY AND PROPERTY AND PAY ALL COSTS FOR PERMITS FOR PAY ALL COSTS FOR PERMITS FOR PAY ALL COSTS FOR PERMITS FOR PAY ALL COSTS FOR PAY ALL COSTS
- 26. THE SECTIONAL CONTRACTOR SHALL COORDINATE ALL CUTLET LOCATIONS AND PROCESSINGS OF ALL TRESHOLD AND OTHER SIGNAL SYSTEMS WITH THE TEMALS.
- 27. FURNISH THE OWNER UPON COMPLETION OF ALL WORK A "CERTIFICATE OF FINAL INSPECTION" FROM THE LOCAL INSPECTION AUTHORITY.
- THE BLECTHOOL CONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL CODER, RILLER AND REGILATIONS OF SOMEWING AGRICUSE HAVING APRICUTTOR ALL OF WHICH ARE HERRY MADE A PART OF THE FLAME AND SPECIFICATIONS.
- 29. THESE PLANS ARE SUBJECT TO THE APPROVAL BY THE DEPARTMENT OF BUILDING
- SO, THERE ARE NO AREAS WITHIN THE SOOPE OF THIS PROJECT CLASSIFED AS HAZARDOUS
- 21. THE BLECTRICAL CONTRACTOR SHALL COORDEATE THE TELEPHONE COMPANY'S INSTALLATION AND INSATLL ALL PRECIONES, STURE, SLEEVES, SACKBOARDS, ETC. PRI
- 22. EACH AR CONDITIONING USET SHALL HAVE TIME OLOCK CONTROL. SHE THE MECHANICA DRAWNING FOR CONTROL RECURSIONATE.
- 25. ALL PROSPTACESS SE BATHROOM AREAS TO HAVE GROUND FALLT PROTECTION
- 21. HO ELECTRICALLY OPERATED SOUPHERT SHALL SE MORE THAN TWENTY-THE PEET DAY

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11 41

SYMBOL LIST

PANELBOARD: SURFACE MOUNTED, WITH DOOR

€—(II) UTILITY COMPANY METER, WITH CURRENT TRANSPORMER

LITELITY COMPANY METER, BELF-CONTAINED

\$ SNOLE POLE SWITCH: +48", OR AS NOTED

LETTER MOICATES LIGHTS CONTROLLED

THERMOSTAT: +48", OR AS NOTED

COMMINATION MOTOR STARTER AND DISCONNECT SWITCH

PANELBOARD: RECESSED, WITH DOOR

XXX DRY TYPE TRANSFORMER

CONTROL

0

METER, BELF-CONTAINED

TWO POLE SWITCH

THREE WAY SWITCH

POUR WAY SWITCH

DESCRIPTION

TU DISCOVEREDT SWITTON

RELAY ROUND FAULT PROTECTION

HOTOR HAMBER MOICATES HORSEPOWER

LIGHTING

- OUTLET AND LIGHT FOXTURE, CELLING OR PENDANT MOUNTED
- HO OUTLET AND LIGHT FIXTURE, WALL MOUNTED
- RECERSED LIGHT FIXTURE WITH JUNCTION BOX FLUORESCENT STRIP LIGHT, SURFACE MOUNTED
- FLUORESCENT LIGHT FIXTURE, RECESSED
- CONTROL OUTLET OR AMOTION BOX AND PLUGRESCENT LIGHT FIXTURE
- A. M. S. OUTLET, TRACK AND LIGHT FOXTURES
- BATTERY EMERGENCY LIGHT
- B LIGHTING FIXTURE ON HIGHT LIGHT OROUT
- MOIGATES TYPE OF LIGHT FORTURE, PER FIXTURE SCHEDULE MOIGATES QUARTITY OF LIGHT PIXTURE

RECEPTACLES

- DUPLEX CONVENIENCE RECEPTAGLE CUTLET AT +NF', OR AS NOTED.
- DUPLIEX RECIEPTACLE: 1/1 HOT, 1/2 SWITCHED
- DUPLEX RECEPTABLE: ON TWO INDEPENDENT 120 YOLT ORDUITS
- DUPLEX RECEPTACLES. INCLATED GROUND TYPE, 20 AMP OR AS NOTED
- DOUBLE DUPLEX RECEPTAGLE OUTLET, 3-GANG BOX OR AS NOTED
- CLOCK EPICERSEDI RINGLE RECEPTACLE CUTLET, 15 AMP OR AS MOTEO
- PLUGH FLOOR RECEPTACLE OUTLET
- SURFACE PLOOR RECEPTACLE OUTLET

MISCELLANEOUS

- Y TELEPHONE OUTLET: +15", OR AS NOTED
- TELEVISION OUTLET: +10", OR AS NOTED
- (f) FLUSH OR SURFACE FLOOR TELEPHONE OUTLET
- (8) SMOKE DETECTOR
- (I) JUNOTION BOX, 4" SQUARE x 2-1/8" DEEP, OR AS NOTED

CONDUIT

- ---- VT 0 8 f B

- ----

- -### FO-148
- --- CONDUIT IN OR UNDER FLOOR, OR UNDERGROUP

- --------- CONDUIT HOME REAL TO PANELBOARD

ABBREVIATIONS

ua	UNDERGROUND	oo.	CONDUIT ONLY
W.P.	WEATHERPROOF	AT.	VIERFY LOCATION
T.C.	TIME OLOOK	EQ.	ELECTRICAL CONTRACTOR
KH.	MOUNTING HEIGHT	LOL	FONG CONTINUOUS FOVD
D.E.	DUAL ELEMENT	EDF.	ELECTRIC DRINGING POUNTAIN
AF.	AMP. FUSE	FS.O.	PURHOBBED BY OTHERS
AS.	AMP. SWITCH	GFI	GROUND FAULT INTERRUPTER
RTS.	NOT TO SCALE	ML.	MONT LIGHT
NLC.	NOT IN CONTRACT	8.K	SOLID HEJTRAL
UOM	UNLESS OTHERWISE NOTED	pt., W.	PHASE, WIRES
uqps	UNDERGROUND PULL SECTION		EXISTING
ALC.	AMP. INTERUPTING CAPACITY	820	BURGE PROTECTION DEVICE
4/8 DP	4" x 4" x 2-1/8" BOX	5/8 DP	4-11/16" x 4-11/16" x 3-1/8" BCX

HEIGHT FROM FINSHED FLOOR TO DERITER LINE OF OUTLET

SHEET INDEX

PHOTOMETRIC PLAN

PHOTOMETRIC PLAN

SECOND FLOOR PLAN

PANEL SCHEDULES

TITLE 24 - INTERIOR

TITLE 24 - EXTERIOR

PARTIAL SITE LIGHTING PLAN

PARTIAL SITE PHOTOMETRIC PLAN

E-4.0 ROOF PLAN

E-5.0 SERVICE DETAILS

E-7.0 TITLE 24 - INTERIOR

GENERAL NOTES AND SYMBOLS LIST FIRST FLOOR PLAN

FIRST FLOOR EGRESS PATH LIGHTING

SECOND FL EGRESS PATH LIGHTING

LATEST ISSUED WITH THIS SET

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E-1.0

E-2.0

E-2.1

E-3.0

EEST

E-5.1

E-8.1

E-6.0 DETAILS

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ENGINEERING CONSULTING ENGINEERS
TSJ WOOLF AK STE 90, VAN NITS, CA PHOS
TEL (181) 786-4900
HTERNET: http://www.silver-engineering.com

SILVER

CABRILLO **BUSINESS PARK** BUILDING NO. 2

Revisions ⚠ 06-01-09 BID SET

BLDG. DEPT.

6767 HOLLISTER AVE. GOLETA, CA

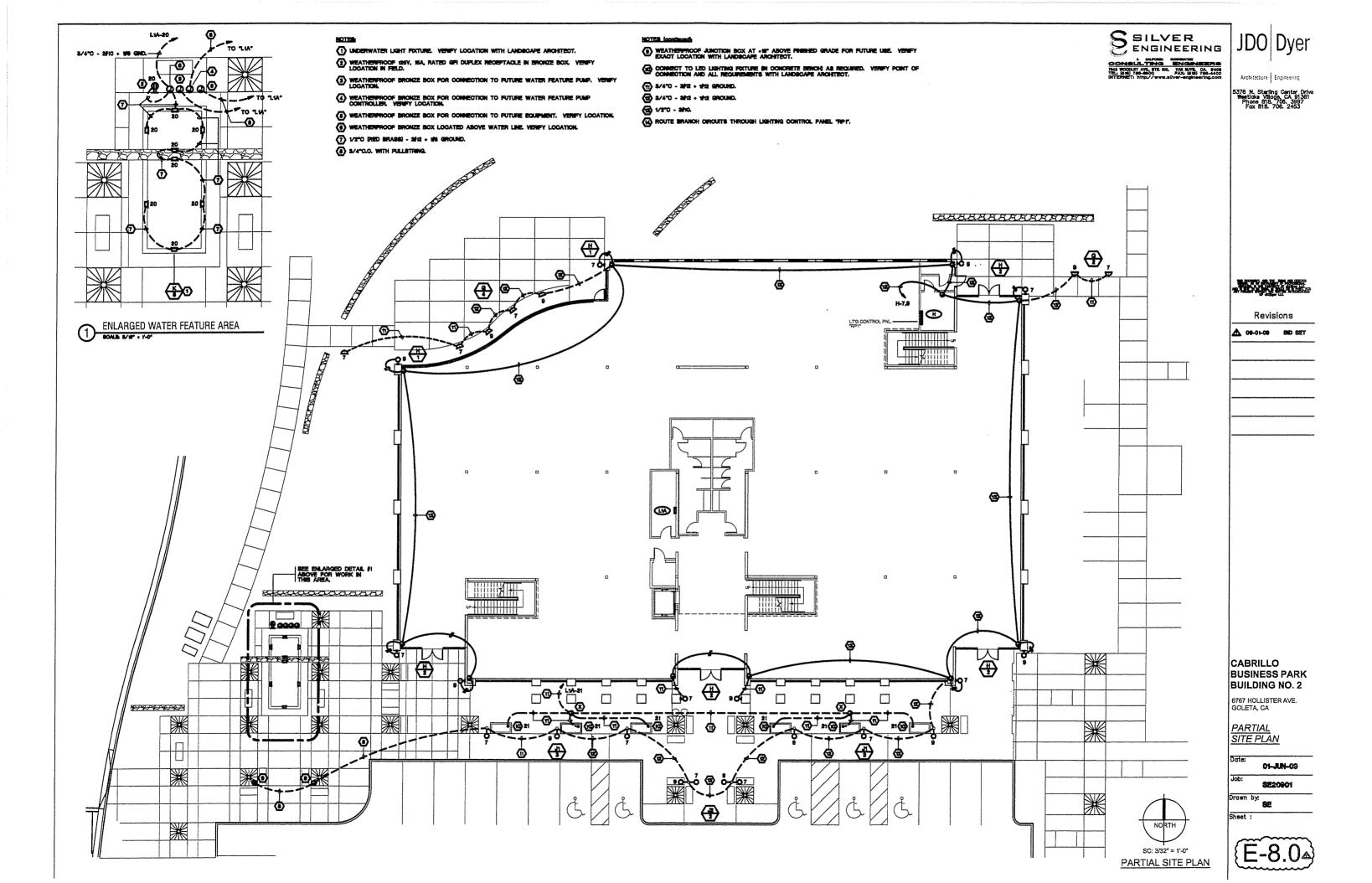
GENERAL NOTES & SYMBOLS LIST

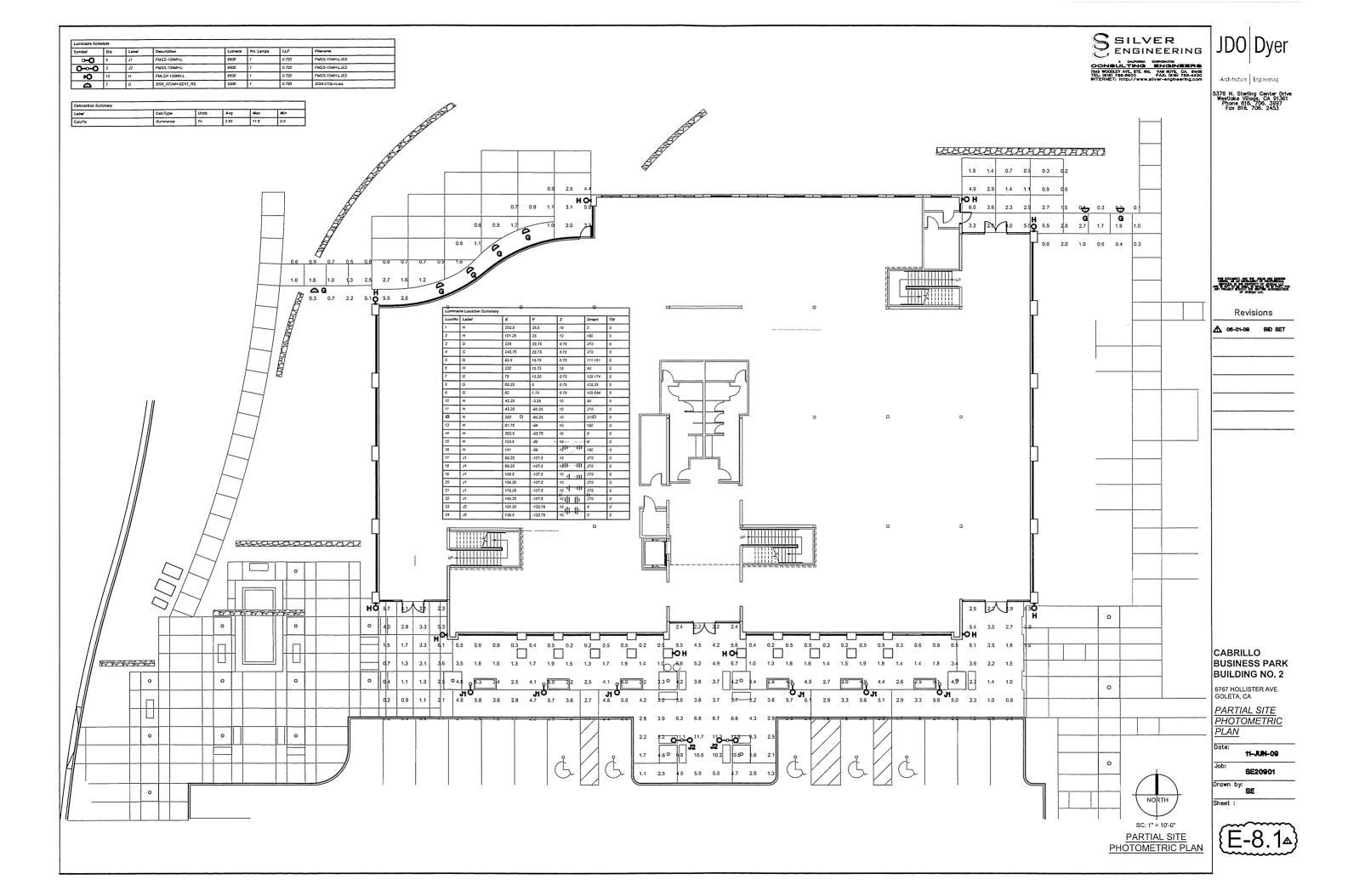
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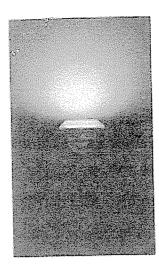
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Sheet:

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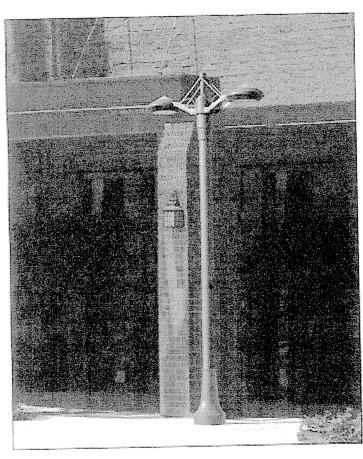






All miniFlex fixtures can be configured as an uplight, downlight and uplight/downlight. The miniFlex design makes it easy to change the direction of the light.

The internal lens cover blocks either the uplight or downlight component of light. Or the cover can be easily removed to create a 50% uplight - 50% downlight luminaire.

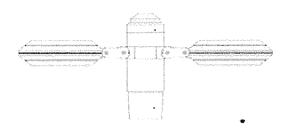




miniFlex - W	all and F	ole mou	ınted	page :	2 of 8 D	NE TYPE
FM-						
FIXTURE NCLUDES ARM 1	BALLAST 2	COLOR 3	UPPER OPTION 4	LOWER OPTION 5	INTERNAL OPTION 6	BASE-POLE 7
I WALL MO	UNTED			rita di periodo de proprio de completa de la completa del la completa de la completa del la completa de la completa del la comple	256-Feer (1 100 points de 150 point FEE) (250 point 1 100 point FEE) (250 point FEE) (250 point FEE) (250 point	
Remote Ballast Short stainless stee 25'/8M waterproof nection to a remote enclosure by others noludes a 5"/125m	cable for cor ballast. Balla	ith a i- ast	gral Ballast			
plate for the wall if r		FMS PRO	SS SHC ECTION: 17.2*/4 HT: 7.8"/200MM		PRO	SC SHORT CURVED ARM DECTION: 17.9*/445MM SHT: 7.8*/200MM
FMR SHC PROJECTION: 13.25*/3 IEIGHT: 3.5*/90MM	RT ARM 840mm				-	
		HEIGI	.S LO ECTION: 22.5°/5 -fr: 7.8°/200мм can be tilted u			LC LONG CURVED ARM DECTION: 21.3"/540mm SHIT: 10.1"/260mm
ş		⊠ FML	.SX LONG	STRANGHT ARM & EX		LONG CURVED APM & EXTEN
		HEIG	ЕСТЮН: 22.5"/3 НТ: 14.2"/360м	M		NECTION: 21.3°/540мм
SOLD TO	<u></u>) #	JOE	NAME	^{As}	oprovals
Architectural A 14249 Artesia Blvd / 714,994,2700 / fax 7 Ret minifiex.pdf copyright	La Mirada, CA 14,994,0522	90638 / www.aal.net				

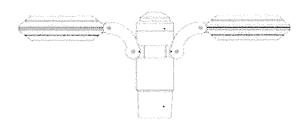
POLE MOUNTED

3allast is located in the post top fitter. Slips over a 4 inch/100mm pole.



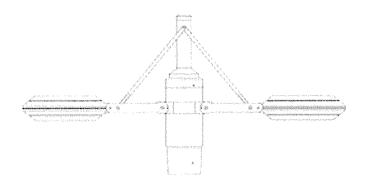
HORT STRAIGHT ARM

AT N	ODESCRIPTION	
	FMSS4	single, short straight arm
District Control	FMTSS4	twin, short straight arm



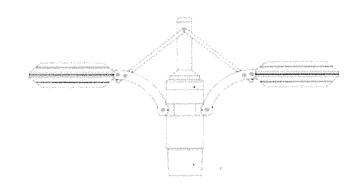
SHORT CURVED ARM

CAT NO	DE	SCRIPTION
	FMSC4	single, short curved arm
	FMTSC4	twin, short curved arm



ONG STRAIGHT ARM

AT NO		DESCRIPTION			
	FMLS4	single, long straight arm			
X	FMLS4XP	single, long straight arm with extension			
	FMTLS4	twin, long straight arm			
X	FMTLS4XP	twin, long straight arm with extension			



SHORT CURVED ARM

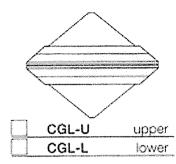
FMLC4	single, long curved arm
FMLC4XP	single; long curved arm with extension
FMTLC4	twin, long curved arm

Architectural Area Lighting

2	BALLA	ST DESCRIPTION
	CAI. NO.	SECURIF TON
	INC	For use with medium base incandescent lamps, up to 100 watts.
	INCT4	For use with mini-cand base T-4 halogen lamps, up to 150 watts.
	CF	Compact fluorescent, electronic ballast, 120/277 volt. Use 4 pin lamps, 26, 32 or 42 watt.
	39MHT6EB	39 watt electronic metal halide ballast, 120 thru 277 volt. Uses a G12 base, clear T-6 ceramic lamp.
	50MH	50 watt metal halide 120/277 volt ballast. Use medium base, clear ED-17 lamps.
	50MHEB	50 watt electronic metal halide ballast, 120 thru 277 volt. Use medium base, clear ED-17 lamps.
	70MH	70 watt metal halide 129/208/240/277 volt ballast. Use medium base, clear ED-17 lamps.
	70MHEB 70 watt electronic metal halide ballast, 120 thru 277 volt. Use medium base, clear ED-17 lamps.	
	70MHT6 70 watt metal halide 120/277 volt ballast. Uses a G12 base, clear T-6 ceramic lamp.	
	70MHT6EB	70 watt electronic metal halide ballast, 120 thru 277 volt. Uses a G12 base, clear T-6 ceramic lamp.
	100MH	100 watt metal halide 120/208/240/277 volt ballast. Use medium base, clear ED-17 lamps.
X	100MHEB	100 watt electronic metal halide ballast, 120 thru 277 volt. Use medium base, clear ED-17 lamps.
	50HPS	50 watt high pressure sodium 120/277 volt ballast. Use medium base, clear ED-17 lamps.
	70HPS	70 watt high pressure sodium 120/208/240/277 volt ballast. Use medium base, clear ED-17 lamps.
	100HPS	100 watt high pressure sodium 120/208/240/277 volt ballast. Use medium base, clear ED-17 lamps.
- Andrea Components		re multi-tap, prewired for 277 volts. Lamps not included. ballasts use the extended back plate.
_		
3	COLO	rs (MATCH PARKING LOT FXTURES)

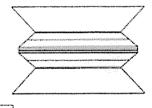
<u>3</u>	COLORS (MATCH PAREING	CUI PIX/UNESSI
- Adam -	WHT White	DGN Dark Green
	LGY Light Grey	CRT Corten .
	MAL Matte Aluminum	BRM Metallic Bronze
	MDG Medium Grey	DBZ Dark Bronze
	AT,G Antique Green	BLK Black
	VGR Verde Green	MTB Matte Black
	WRZ Weathered Bronze	RAL. # Provide a RAL 4 digit color number
	DGN Dark Green	CUSTOM Please provide a color chip for matching

The cortical glass tens, angled shade, flared shade, flared cone, and solid ring options can be ordered to attach to the upper and/or lower tens frame. These options can be used separately or in combination with the other. All of the options, except for the conical glass, are field installed to the tens frame with three stainless steel screws.



CONICAL GLASS

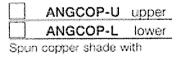
Molded, tempered, frosted glass lens. Can be used on either the upper or lower lens frame, or both.



L	ANG-U	upper
Application of the second	ANG-L	lower

ANGLED SHADE

12.75"/325MM DIAMETER
2.50"/64MM HIGH
Spun aluminum shade with
hemmed edge. Painted the
same color as the fixture.

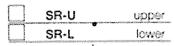


hemmed edge. Unfinished, will patina over time.

ANGSTS-U upper
ANGSTS-L lower
Spun stainless steel shade
with hemmed edge. Brushed

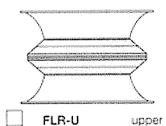
finish.





SOLID RINGS

Two cast aluminum rings. Can be used on either the upper or lower lens frame, or both.



FLARED SHADE

FLR-L

12.87"/330мм риметея
2.75"/70мм ніся
Spun aluminum shade with
rolled edge. Painted the same
color as the fixture.

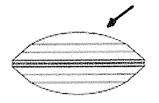
lower

	FLRCOP-U	upper_
	FLRCOP-L	lower
0		

Spun copper shade with rolled edge. Unfinished, will patina over time.

FLRSTS-U	upper
FLRSTS-L	lower

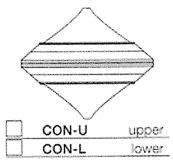
Spun stainless steel shade with rolled edge. Brushed finish.



MC-U	upper
DMC-L	lower

DOMED COVER

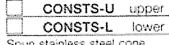
Spun aluminum dome mimics the design of the Flex. Can be used on either the upper or lower lens frame, or both.



FLARED CONE

3.4*/86мм HIGH Spun aluminum cone. Painted the same color as the fixture.

CONCOP-U upper
CONCOP-L lower
Spun copper cone.
Unfinished, will patina over
time.



Spun stainless steel cone. Brushed finish.

INTERNAL OPTIONS

OL.	internal
W to	A RC43 KG

AUXILIARY LAMP

Socket for a mini-cand T-4 halogen lamp, maximum 100 watts. Must be wired to a separate 120 volt circuit.

CFH internal

COLOR FILTER HOLDER

Aluminum ring with three key hole slots to hold a color filter (by others). The holder accepts a filter that is 7 1/8"/181mm in diameter. The filter can be used on either the upper or lower lens frame, or both.

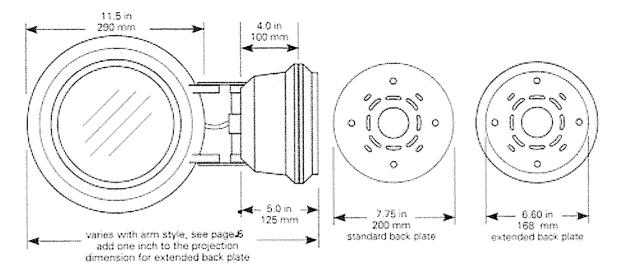
CFH-2

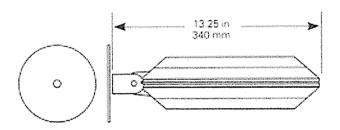
Two color filter holders.

Filters are available from SpecialFX, or other filter providers.

347

120/277/347 volt magnetic ballast for all HIO lamps, except the 50HPS and 50MH which are 347 volts only. The standard backplate is for incandescent, compact fluorescent and electronic metal halide ballasts. The extended backplate is required for metal halide and high pressure sodium magnetic ballasts.

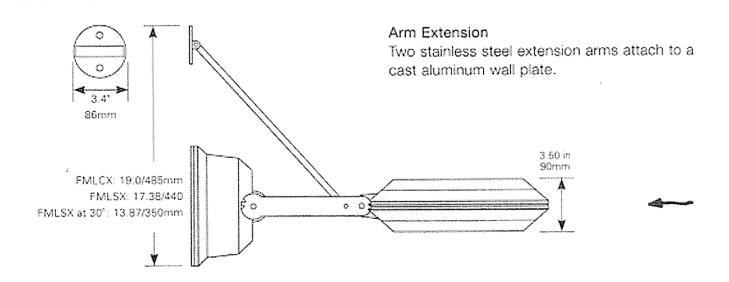




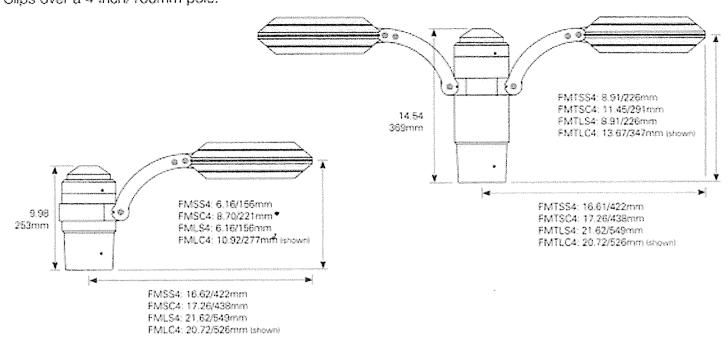
Remote Ballast

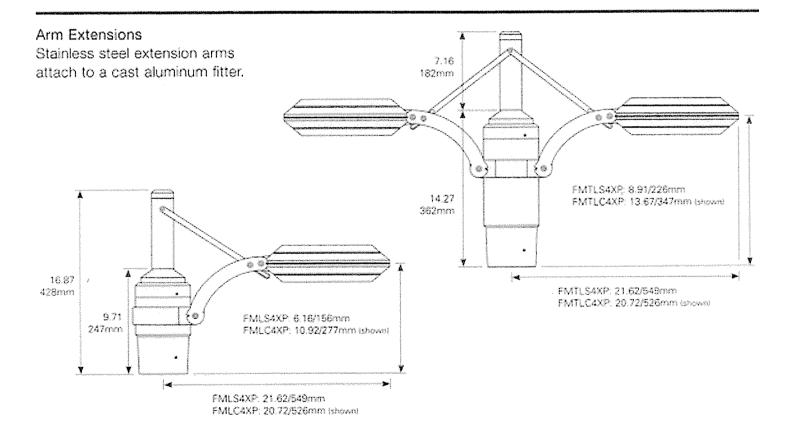
Short stainless steel yoke arm with a 25'/8M waterproof cable for connection to a remote ballast. Ballast enclosure by others.

Includes a 5"/125mm round cover plate for the wall if required.



Ballast is located in the post top fitter. Slips over a 4 inch/100mm pole.





Architectural Area Lighting

14249 Artesia Blvd La Mirada, CA 90636 www.aal.net 714.994.2700 fax 714.994.0522 miniFigx is a registered trademark of AAL. Design patients. Copyright 2005

LAMP MODULE

The lamp housing is two piece die cast aluminum. Two stainless steel arms arms join the lamp module and ballast module with four stainless steel bolts. The cable between the lamp and ballast modules is sheathed in a flexible stainless steel hose with watertight stainless steel fittings.

An internal lens cover is preinstalled on the upper lamp housing. The cover is movable to the lower housing to change the fixture to an uplight luminaire, or removed for a 50/50 uplight/downlight configuration.

The lens, flat or conical, is tempered glass with a lightly diffused finish to obscure the lamp image and eliminate striations on the wall surface.

The housing is sealed with a molded silicone gasket. One captive stainless steel screw is loosened to swing the door open to allow access to the lamp.

WALL MOUNTED

The ballast housing is a two piece die cast aluminum. The back plate is mounted to an electrical box or fastened directly to the wall surface. The ballast housing holds the ballast components and attaches to the back plate with three captive stainless steel cap screws.

POLE MOUNTED

The ballast is mounted to a strap within the post top fitter. The fitter has a removable top cap for access and removal of the ballast assembly.

ELECTRICAL

Magnetic HID ballasts are high power factor, rated for - 30°F starting.

Electronic ballasts for metal halide lamps are sound rated A, 120 through 277 voit. Electronic ballasts have thermal protection and an end of (lamp) life detection and shutdown circuit.

Compact fluorescent transformers are electronic, 120 through 277 volt for 26, 32 or 42 watt 4 pin lamps.

Sockets are pulse rated, medium base for ED-17 lamps, G12 for use with T6 lamps, incandescent lamps are medium base or mini-cand screw base for T-4 lamps. All sockets are porcelain.

The miniFlex is factory supplied as a complete, prewired assembly including the lamp and ballast module. Ballasts are prewired to 277 voits. Fixture weight is 13 pounds.

FINISH

Fixture finish consists of a five stage pretreatment regimen with a polymer primer sealer, oven dry off and top coated with a thermoset TGIC polyester powder coat finish. The finish meets the AAMA 605.2 performance specification which includes passing a 3000 hour saft spray test for corrosion resistance.

CERTIFICATION

The fixture is listed with ETL for outdoor, wet location use, UL1598 and Canadian CSA Std. C22.2 No.250. The lamp module has an IP rating of 65.

WARRANTY

The fixture is warranted for three years. Ballast components carry the ballast manufacturer's limited warranty.

Made in the USA with 100% US content.

MM LIGHTING

Cast Aluminum, ED-17 MH / HPS / PL Fluorescent

***************************************	- CIGITIII	<u>u</u>	revision 12/01/05 • 3096.pd
Type: "4" Job: Fixture Catalog number:			Approvals:
3096		1	
FINALWE	Limp Made	Firesh	Date: Page: 1 of 1

Specifications

Lens Ring: One-piece cast aluminum, painted finish. Eight captive 1/6" blackened stainless steel hex-socket cap screws.

Lens: Molded borosilicate prismatic glass with removable 180° reflector shield.

Lens Gasket: One-piece molded silicone, U-channel wraps completely around lens flange.

Housing: High temperature, compression molded, fiberglass impregnated, 1/6" min. wall composite. Charcoal gray, No top lip to trap dirt and moisture. Molded-in solid brass knurled inserts to receive lens cover screws. Separate ballast and splice compartments, individual cast aluminum internal covers, with silicone gaskets. Two 1/4" NPT in bottom, 24 cu. in, splice area. Body and ballast modules epoxy bonded.

Socket: H.I.D. and incandescent are 4KV medium base. Fluorescent is GX24q-3 (For 26 or 32 watt triple tube lamp).

Ballast Module: H.I.D. ballast is high power factor -20° F starting. Fluorescent ballast is electronic with multi-voltage (108V to 305V) input, 50/60HZ, .98 power factor (-0° F). Will operate 26 or 32 watt lamp. Electrical components factory mounted to gasketed compartment cover.

Wiring: Anti-siphon barriers on all wiring to and from ballast compartment. All components wire linked for ground. Quick disconnect provided for removal of lamp bracket.

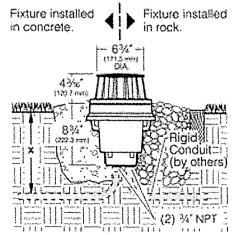
Finish: Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over an anodized pre-treatment and titanated zirconium conversion coating; 2500 hour salt spray test endurance rating. Standard colors are: Black (BL),

Ďark Bronze (DB), and Verde Green (GR).

Certification: UL Listed to U.S. and Canadian safety standards for wet locations. Fixture manufacturer shall employ a quality program that is certified to meet the ISO 9001:2000 standard.



Hubbell Lighting, Inc.



"x" = required depth of conduit per local code.

ORDERING INFORMATION	١
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Fixture			
3096			
Lamp Mode	e¹		
	☐ 50PMH120 ☐ 50PMH208 ☐ 50PMH240 ☐ 50PMH277 ☐ 50PMH347	☐ 70PMH120 ☐ 70PMH208 ☐ 70PMH240 ※ 70PMH277 ☐ 70PMH347	50HPS120 50HPS208 50HPS240 50HPS277 50HPS347
Lamp	ED-17	ED-17	ED-17
Socket	Medium Base	Medium Base	Medium Base
ANSI Baliast Type	M-110	M-98	S-68
	☐ 70HPS120 ☐ 70HPS208 ☐ 70HPS240 ☐ 70HPS277 ☐ 70HPS347	□ 32PL	
Lamp	ED-17	Compact Fluore	escent
Socket	Medium Base	GX24q-3	The second secon
ANSI Ballasi	S-62		

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□BL	Black
X DB	Dark Bronze
□GR	Verde Green

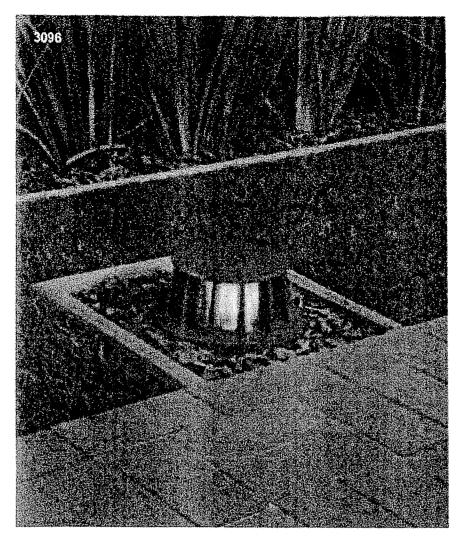
'50 PMH 120

Type

Line Volts Lamp Type: PMH = Pulse Start Metal Halide **HPS** = High Pressure Sodium PL = Fluorescent Lamp Watts



XAM LIGHTING RESERVES THE RIGHT TO CHANGE SPECEFICATIONS WITHOUT NOTICE



Fixture installed in concrete. Fixture installed in rock. Fixture installed in rock.

SPECIFICATIONS

Lens Ring: One-piece cast aluminum, painted finish. Eight captive 1/4" blackened stainless steel hex-socket cap screws.

Lens: Molded borosilicate prismatic glass with removable 180° reflector shield.

Lens Gasket: One-piece molded silicone. U-channel wraps completely around lens flamage.

Housing: High temperature, compression molded, fiberglass impregnated, %1 min, wall composite. Charcoal gray. No top lip to trap dirt and moisture. Molded in solid brass knurried inserts to receive lens cover screws. Separate ballast and splice compartments, individual cast aluminum internal covers, with slicone gaskets. Two % NPT in bottom, 24 cu. in. splice area. Body and ballast modules epoxy bonded.

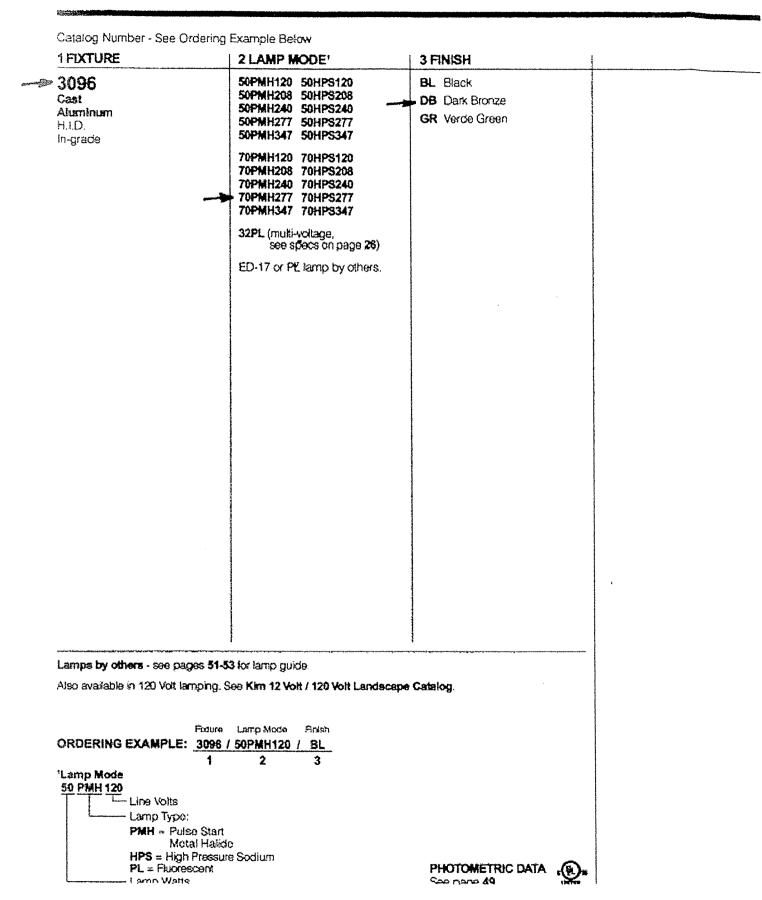
Socket: H.I.D. and incandescent are 4KV medium base. Fluorescent is GX24q-3 (For 26 or 32 watt triple tube lamp).

Ballast Module: H.I.D. ballast is High Power Factor -20° F starting. Fluorescent ballast is electronic with multi-voltage (108V to 305V) input, 50/60HZ, .93 Power Factor (-0° F). Will operate 26 or 32 watt lamp. Electrical components factory mounted to gasketed compartment cover.

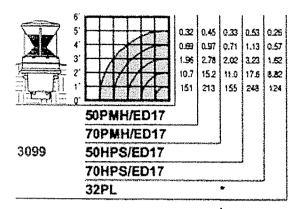
Wiring: Anti-siphon barriers on all wiring to and from ballast compartment. All components wire linked for ground. Quick disconnect provided for removal of lamp bracket.

Finish: Super TGIC thermoset polyester powder coat paint, 2.5 mill nominal thickness, applied over an anodized pre-treatment and Titanated Zirconium conversion coating; 2500 hour sait spray test endurance rating. Standard colors are: Black (BL), Dark Bronze (DB), and Verde Green (GR).

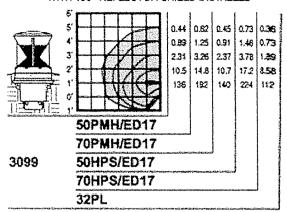
Certification: UL Listed to U.S. and Canadian safety standards for wet locations. Fixture manufacturer shall employ a quality program that is certified to meet the ISO 9001:2000 standard.



HORIZONTAL FOOTCANDLE CHART - TYPICAL QUADRANT



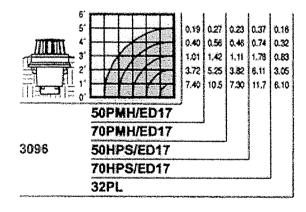
HORIZONTAL FOOTCANDLE CHART • TYPICAL HALF WITH 180° REFLECTOR SHIELD INSTALLED



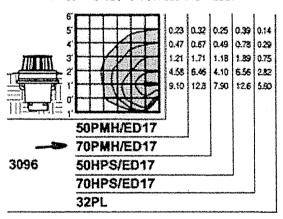
ED-17 In-grade Lighting

FOOTCANDLE LEVELS ARE INITIAL UNLESS OTHERWISE NOTED.

HORIZONTAL FOOTCANDLE CHART . TYPICAL QUADRANT



HORIZONTAL FOOTCANDLE CHART • TYPICAL HALF WITH 180° REFLECTOR SHIELD INSTALLED



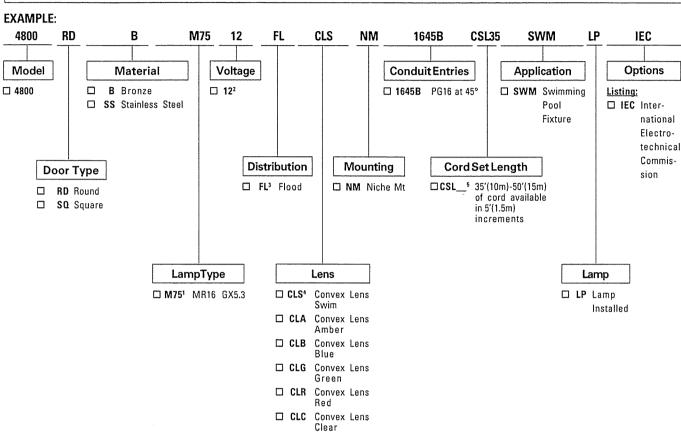




4800 ORDERING INFORMATION

50 Hz Application

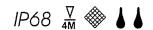
Choose the boldface catalog nomenclature that best suits your needs. PART NO.



Notes:

- ¹ Other wattages available upon request.
- ² Transformer not included, sold separately. ³ Other Distributions available upon request
- 4 CLS will be used if no lens is chosen.
- ⁵ CSL specified in feet, metric equivalents are approximated.





4800 ORDERING INFORMATION

60 Hz Application

Choose the boldface catalog nomenclature that best suits your needs. PART NO. **EXAMPLE:** LP **SWM** 4800 RD B 150Q 120 CLS NM 3445B CSL35 **Options** Model Voltage **Conduit Entries** Application Door Type □ 3445B 3/4" NPT ☐ 12² □ SWM Swimming Listing: □ 4800 RD Round Pool □ CSA Canadian SQ Square □ 120 at 45° Fixture Standard Association Distribution Mounting **Cord Set Length** ☐ FL³ Flood □CSL__6 35' - 120' of □ NM Niche Mt cord available in 5' increments Lamp Material Lens ☐ LP Lamp ☐ CLS¹ Convex Lens **B** Bronze Swim Installed ☐ SS Stainless Steel □ CLA Convex Lens Amber □ CLB⁵ Convex Lens Blue LampType □ CLG⁵ Convex Lens Green LOW VOLTAGE ☐ CLR Convex Lens ☐ M751 MR16 GX5.3 Red **INCANDESCENT** □ CLC Convex Lens Clear □ 100Q T4 MC

Notes:

- 1 Other wattages available by request.
- ² Transformer not included, sold separately.
- ³ Distribution only required on Low voltage MR-16 fixtures.

□ 150Q T4

MC

- Other distributions available upon request. 4 CLS will be used if no lens is chosen.
- 5 CLB and CLG not available with 1500.
- 6 CSL50 is the maximum cord length for 12V fixtures.



LINE OR LOW VOLTAGE SWIMMING POOL FIXTURE

DESCRIPTION

The 4800 Series wet niche swimming pool light is smaller in size than other conventional units. They are available with round or square bezel and use a 120V, 150W Max., T-4 mini-can or 12V, 75W Max., MR16 quartz halogen lamp. The lamp housing is stainless steel with a cast bronze or stainless steel door. The stainless steel niche includes a bonding lug and a 3/4" or PG16 conduit hub. A clear fresnel tempered borosilicate lens is standard.

FEATURES & SPECIFICATIONS

FIXTURE HOUSING & DOOR: Stainless steel housing with cast bronze or stainless steel door.

NICHE: Stainless steel with cast bronze mounting assembly. which has provision for positive locking of the fixture in position. The unit includes a grounding lug and a 3/4" conduit hub with 1/2" reducer or PG16 conduit hub.

LAMP: Low voltage: 12V, MR-16 guartz halogen to 75W Max. Incandescent: 120V, T-4 quartz halogen to 150W Max. Lamp included.

SOCKET: 120V, mini-can, screw base; 12V, bi-pin mount GX5.3.

LENS: 3 1/8" (80mm) diameter tempered borosilicate, clear fresnel standard. Clear, amber, blue, green or red lenses also available. (Colored lenses are not Fresnel)

NOTE: Blue or green lens available to 100W Max.

GASKET: Single piece U-shaped molded silicone.

CORD: Minimum of 35' of #16-3ST for US standard, 10m of HO7RN-F-2x4 for European standard, submersible rated cord with ground wire positively grounded inside the fixture. Cord length must be specified. NOTE: Sufficient cord should be coiled in the fixture niche to allow for the removal of fixture to above water level for re-lamping.

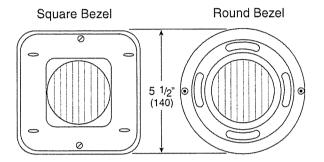
LOW WATER CUT-OFF: Temperature sensing low water cutoff standard.

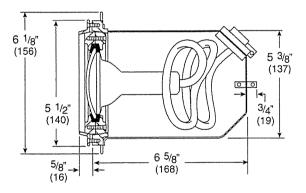
FASTENERS: Stainless steel.

LISTING: U.L., C.S.A., CE, CB, NEMKO

NOTE: HYDREL RESERVES THE RIGHT TO MODIFY SPECIFICATION WITHOUT NOTICE. Any dimension on this sheet is to be assumed as a reference dimension: "Used for information purposes only. It does not govern manufacturing or inspection requirements." (ANSI Y14.5-1973)

TYPE			JOB NAME		
PART NUMBER	<u> </u>				
Model	DoorType	Material	LampType	Voltage	Distribution
Lens	Mounting	Conduit C	Cord Applicat	ions Lamp	Option





WARNING: The use of a Ozone generators, Chlorine generators, Copper/Silver Ion generators or certain chemicals for water purification may cause damage to the fixture if not properly used. When such water purification methods are used, be sure to monitor water conditions. Subjecting the fixtures to "extreme conditions"/ "harsh environments" may cause corrosion and premature failure of components.

APPROVALS