



Highway Attachment – Lighting Specifications

Tempe, Arizona

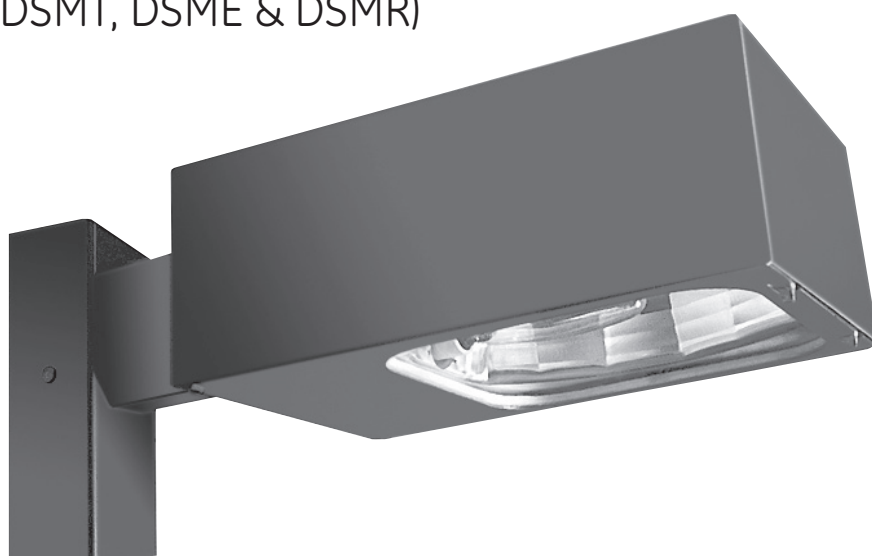
HWY18MH010

(8 pages)

GE
Lighting Solutions

Area Lighting

Decashield™ 400 (DSMT, DSME & DSMR)



imagination at work

Product Features

Designed for superior photometric performance and architectural appeal, GE Outdoor Area Sighlighters provide broad application flexibility. From parking lots to downtown areas, hospitals to shopping malls, business complexes to residential neighborhoods, these fixtures will satisfy your large area lighting needs, while complementing your aesthetic desires.

Applications

- Walkways, driveways, tennis courts, malls, shopping centers, commercial and industrial complexes
- Residential areas and parkway lighting

Housing

- Heavy-duty die-cast aluminum housing and door

Finish

- Polyester powder paint finish in dark bronze, black, gray, white or aluminum

Rating

-  /  1598 Listed Suitable for Wet Locations

Mounting

- Decorative Mounting Arm standard for flat or curved (for 3.5 to 4.5) OD pole (drilling templates are the same as those for the Decashield 1000™ and Dimension™ luminaires)

Reflectors

- ALGLAS™ finish on Type II, Type III and Type V reflectors, anodized finish on Forward Throw reflector

Unique Features

- No-tool access stainless steel latch design
- Heat and impact resistant tempered flat glass lens
- Type II, Type III metal halide, and all Forward Throw reflectors are field rotatable
- Enclosed and gasketed optical
- Mogul base socket – E39 standard, except 150W Pulse MH and below supplied with Medium Base Plug-in ignitor
- Unit shipped complete in one carton (Ballast secured to housing)
- Removable ballast tray
- Magnapack packaging available

Ordering Number Logic

Decashield™ 400 (DSMT, DSME & DSMR)



G

PROD. ID	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE SELECTION	PE FUNCTION	LENS TYPE	IES DISTRIBUTION TYPE	COLOR	OPTIONS
DSMT = Decashield 400 Luminaire with Ballast Tray Flat Surface & Mounting Arm DSME = Decashield 400 Luminaire with 2" External Slipfitter Installed DSMR = Decashield 400 Luminaire with Ballast Tray & Direct Mounting Arm to Round Pole	15 = 150 (55V) 17 = 175 20 = 200 24 = 250/400* 25 = 250 32 = 320 35 = 350 40 = 400 *250/400 connected 250W for HPS only	E = Energy Act Compliant Pulse MH (EPMH) S = HPS P = Pulse MH Standard: Magul base lamp not included.	60Hz 0 = 120/208/240/277 Multivolt 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 F = 120X347 T = 220 50Hz Y = 240 NOTE: 120 X 347 connected for 120V	See Ballast and Photometric Selection Table A = Autoreg D = Bi-Level G = Mag-Reg with Grounded Socket Shell H = HPF Reactor or Lag K = Hot Restrike (Must also order "P" option at right. (Non-UL) Contact Factory) M = Mag-Reg P = CWI with Grounded Socket Shell	1 = None 2 = PE Receptacle 4 = PE Receptacle and Shorting Cap NOTE: Receptacle connected same voltage as unit.	G = Flat Glass	See Ballast and Photometric Selection Table MC2 = Medium Cutoff Type II * MC3 = Medium Cutoff Type III * FWC = FWT w/ILS* FWT = Forward Throw* HTV = Horizontal Type V * * = Previously IESNA Full Cutoff Optics	AL = Aluminum BL = Black DB = Dark Bronze (Standard) CG = Charcoal Gray WH = White NOTE: Contact Manufacturer for other colors.	C = Charcoal Filter (Not available with FWT) F = Fusing (Not available with multivolt or 120X347V) J = Line Surge Protector, Expulsion Type (UL not available) P = Prewire with 6' of 14/3 cable. R = No Mounting Arm or Slipfitter

Ballast and Photometric Selection Table

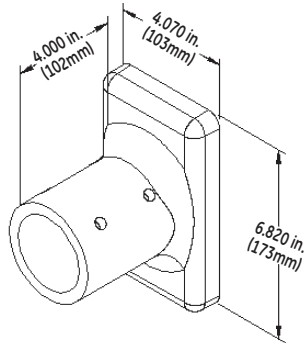
All light sources are clear unless otherwise indicated.

Wattage	Ballast Type/Voltage						IES Distribution Type					
	Light Source	Multivolt	120	208,240 277,480	347, 120X347	220	50Hz	MC2	MC3	FWT	HTV	FWC
150(55V)	HPS	H,K,A	G,H,M,A	G,M,A	H	N/A	N/A	178591	178596	178604	178599	452557
250, 400	HPS	A, K	A, P	A	A	A,H	A	178592	177315	178605	178600	452555
**150	PMH	N/A	A,H	H*	H	N/A	N/A	454163	454165	454164	454182	C/F
175, 320	EPMH	A	A	A*	N/A	N/A	N/A	178594	178597	178607	178602	452559
250	EPMH	A	A	A	N/A	N/A	N/A	178594	178597	178607	178602	452559
350, 400	EPMH	A	A	A*	N/A	N/A	N/A	178595	178598	178608	178603	452554

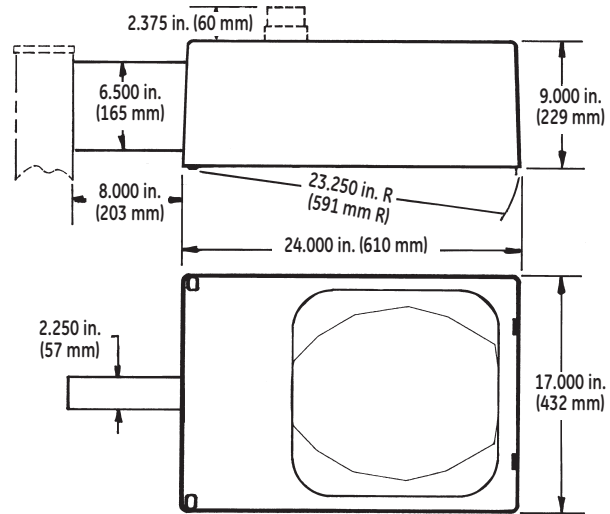
NOTE: N/A = Not available. C/F = Contact Manufacturer *150, 320 and 350W PMH N/A 480V **Medium Base Socket

Product Dimensions

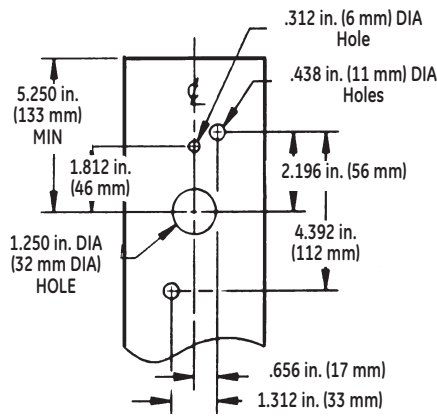
DSME MOUNTING



DSMT

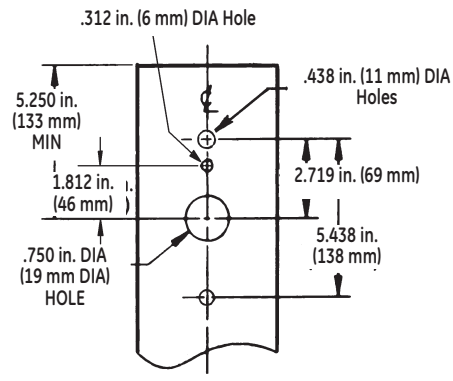


DSMT SQUARE POLE MOUNTING: STANDARD



DRILLING TEMPLATE

**DSMR ROUND POLE MOUNTING
3.5 to 4.5-inch (89 to 114mm) OD round pole**



DRILLING TEMPLATE

DATA

- Approximate Net Weight: 35-45 lbs (16-18 kgs)
- Suggested Mounting Height: 20-40 ft. (6-12 M)
- Effective Projected Area:

No Mounting Arm	1.4 sq. ft. max. (0.13 sq. M max.)
Single with 8 in. (203mm) Mounting Arm	1.8 sq. ft. max. (0.17 sq. M max.)
Double with 8 in. (203mm) Mounting Arm at 180°	3.6 sq. ft. max. (0.33 sq. M max.)
Triple with 8 in. (203mm) Mounting Arm at 90°	4.3 sq. ft. max. (0.40 sq. M max.)
Quad with 8 in. (203mm) Mounting Arm at 90°	4.9 sq. ft. max. (0.46 sq. M max.)
Double with 8 in. (203mm) Mounting Arm at 90°	2.5 sq. ft. max. (0.23 sq. M max.)

NOTE: The wind loading of Decashield Luminaires, when mounted to poles in multiples radially about the axis of the pole, do not necessarily have the EPA of a single luminaire multiplied by the number of luminaires.



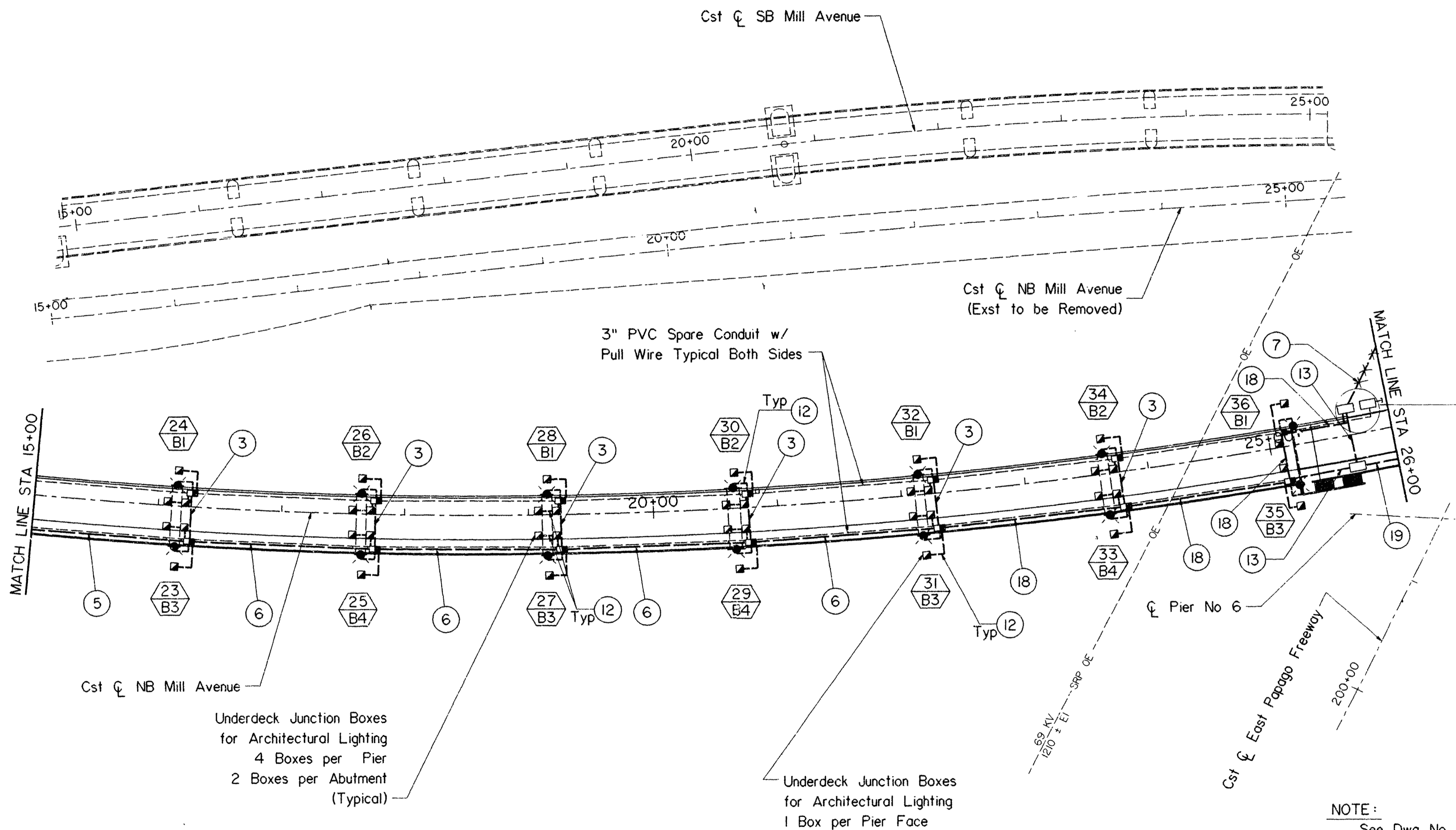
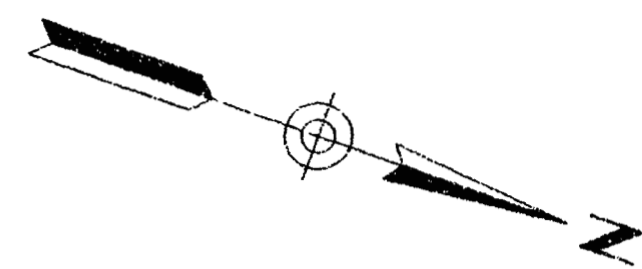
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DATE	REV #	REVISION

SURVEY NO.	FINISHED PLANS	REVISIONS	LOCATION	DATE



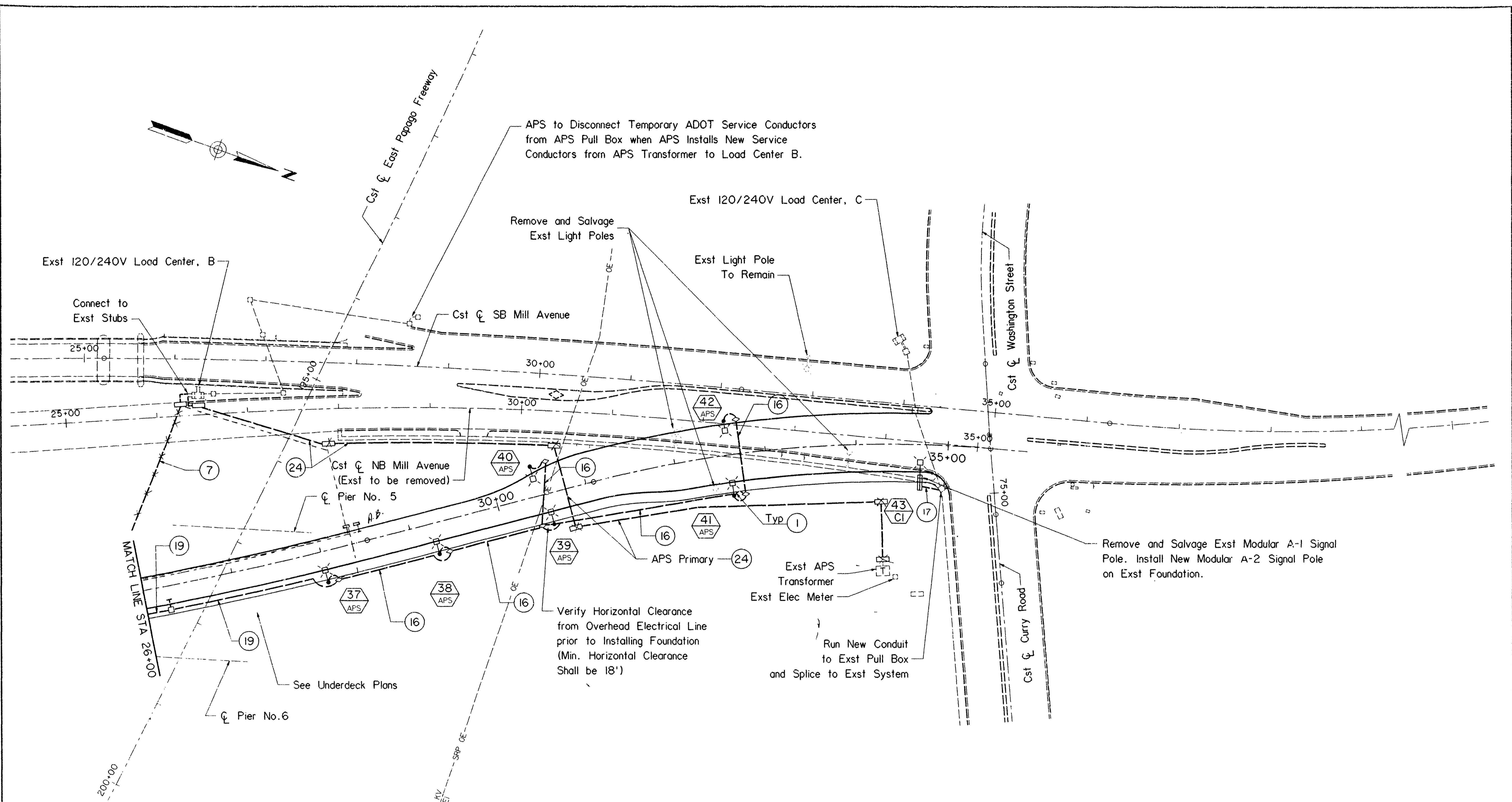
CONTINUE CONDUITS INCLUDING SPARE 3" CONDUIT IN BARRIER TO STA 26+40 E

NOTE:
See Dwg. No. 9.1 for General Notes and Legend.

DESIGN	P. Ilrcil	7/91	DEPARTMENT OF PUBLIC WORKS CITY OF TEMPE DIVISION OF ENGINEERING P.O. BOX 5002 TEMPE, ARIZONA	
DRAWN	J. DeBusso	3/91		
CHECKED	D. Hartig	7/91		
Parsons Brinckerhoff 100 YEARS			SECOND MILL AVENUE BRIDGE LIGHTING PLAN	
PROJECT NO. 906335				DWG. NO. T-9.3

DATE	REV	BY	DESCRIPTION

DATE	LOCATION	DATE



APS to Disconnect Temporary ADOT Service Conductors from APS Pull Box when APS Installs New Service Conductors from APS Transformer to Load Center B.

Exst 120/240V Load Center, C

Exst 120/240V Load Center, B

Remove and Salvage Exst Light Poles

Exst Light Pole To Remain

Connect to Exst Stubs

Cst & SB Mill Avenue

Cst & Washington Street

Cst & NB Mill Avenue (Exst to be removed)

Remove and Salvage Exst Modular A-1 Signal Pole. Install New Modular A-2 Signal Pole on Exst Foundation.

Verify Horizontal Clearance from Overhead Electrical Line prior to Installing Foundation (Min. Horizontal Clearance Shall be 18')

Exst APS Transformer
Exst Elec Meter

Run New Conduit to Exst Pull Box and Splice to Exst System

See Underdeck Plans

Pier No. 6

NOTE:
See Dwg No. 9.1 for General Notes and Legend.

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CHECKED	D. Hartig	7/91		
			SECOND MILL AVENUE BRIDGE LIGHTING PLAN	
PROJECT NO.	906335			DWG NO. T-9.4

DESIGN CHECKED: []
 REVISION: []
 DATE REV # []

LIGHTING POLE SCHEDULE

POLE NO.	CIRCUIT NO.	STATION	OFFSET (From C)	LUMINAIRE			POLE			FOUNDATION		
				TYPE	NO. OF	WATT	VOLT	TYPE	MAST ARM	MNT HGT	TYPE	BASE
1	NO.	NOT USED										
2	A7	4+45	22' RT	SD	1	150	240	SD 14.5	N/A	16.5'	SD	SD
3	A6	5+05	23' RT	SD	1	150	240	SD 14.5	N/A	16.5'	SD	SD
4	A7	5+63	32.7' RT	SD	1	250	240	SD 9.5	N/A	19.4'	△	SD
5	A6	6+35	32.7' RT	SD	1	250	240	SD 9.5	N/A	19.4'	△	SD
6	NO.	NOT USED										
7	A7	7+07	33.1' RT	SD	1	250	240	SD 9.5	N/A	19.4'	△	SD
8	A6	7+07	16.6' LT	SD	1	250	240	SD 14.5	N/A	16.5'	SD	SD
9	A6	7+79	33.1' RT	SD	1	250	240	SD 9.5	N/A	19.4'	△	SD
10	A7	7+79	16.6' LT	SD	1	250	240	SD 14.5	N/A	16.5'	SD	SD
11	A7	8+51	33.1' RT	SD	1	250	240	SD 9.5	N/A	19.4'	△	SD
12	A6	8+51	16.6' LT	SD	1	250	240	SD 14.5	N/A	16.5'	SD	SD
13	A6	9+23	33.1' RT	SD	1	250	240	SD 9.5	N/A	19.4'	△	SD
14	A7	9+23	16.6' LT	SD	1	250	240	SD 14.5	N/A	16.5'	SD	SD
15	B3	10+15	33.1' RT	SD	1	310	240	SD 12.5	N/A	24'	○	SD
16	B1	10+15	15.5' LT	SD	1	310	240	SD 12.5	N/A	24'	○	SD
17	B4	11+65	32.5' RT	SD	1	310	240	SD 14.5	N/A	24'	○	SD
18	B2	11+65	15.3' LT	SD	1	310	240	SD 14.5	N/A	24'	○	SD
19	B3	13+15	32.5' RT	SD	1	310	240	SD 14.5	N/A	24'	○	SD
20	B1	13+15	15.3' LT	SD	1	310	240	SD 14.5	N/A	24'	○	SD
21	B4	14+65	33.1' RT	SD	1	310	240	SD 12.5	N/A	24'	○	SD
22	B2	14+65	15.5' LT	SD	1	310	240	SD 12.5	N/A	24'	○	SD
23	B3	16+15	32.5' RT	SD	1	310	240	SD 14.5	N/A	24'	○	SD
24	B1	16+15	15.3' LT	SD	1	310	240	SD 14.5	N/A	24'	○	SD
25	B4	17+65	32.5' RT	SD	1	310	240	SD 14.5	N/A	24'	○	SD
26	B2	17+65	15.3' LT	SD	1	310	240	SD 14.5	N/A	24'	○	SD
27	B3	19+15	32.5' RT	SD	1	310	240	SD 14.5	N/A	24'	○	SD
28	B1	19+15	15.3' LT	SD	1	310	240	SD 14.5	N/A	24'	○	SD
29	B4	20+65	33.1' RT	SD	1	310	240	SD 12.5	N/A	24'	○	SD
30	B2	20+65	15.5' LT	SD	1	310	240	SD 12.5	N/A	24'	○	SD
31	B3	22+15	32.5' RT	SD	1	310	240	SD 14.5	N/A	24'	○	SD
32	B1	22+15	15.3' LT	SD	1	310	240	SD 14.5	N/A	24'	○	SD
33	B4	23+65	32.5' RT	SD	1	310	240	SD 14.5	N/A	24'	○	SD
34	B2	23+65	15.3' LT	SD	1	310	240	SD 14.5	N/A	24'	○	SD
35	B3	25+15	33.1' RT	SD	1	310	240	SD 12.5	N/A	24'	○	SD
36	B1	25+15	15.5' LT	SD	1	310	240	SD 12.5	N/A	24'	○	SD
37	APS	28+00	31.2' RT	SB	1	250	240	A	8'	32'	A	A
38	APS	29+25	33.6' RT	SB	1	250	240	A	8'	32'	A	A
39	APS	30+55	33.6' RT	SB	1	250	240	A	8'	32'	A	A
40	APS	30+45	36.6' LT	SB	1	250	240	A	8'	32'	A	A
41	APS	32+60	43.6' RT	SB	1	250	240	A	8'	32'	A	A
42	APS	32+60	36.6' LT	SB	1	250	240	A	8'	32'	A	A
43	C1	34+75	35' RT	SB	1	250	120	SGNL	◇	3.2' 30'	(EXST)	(EXST)
44	B5	26+05	36.6' RT	UD	1	150	240	N/A	N/A	18'	N/A	N/A
45	B6	26+75	36.6' RT	UD	1	150	240	N/A	N/A	18'	N/A	N/A

- SB - Side Box HPS Luminaire with an IES Type III Full Cut Off Light Distribution
- UD - Underdeck HPS Luminaire with an IES Type IV Full Cut Off Light Distribution
- SD - Special District HPS Luminaire with an IES Type V Full Cut Off Light Distribution
- SD 14.5 - Special District Light Pole 14' - 6" Per City of Tempe Std Dtl T-653
- SD 12.5 - Special District Light Pole 12' - 6" Per City of Tempe Std Dtl T-653
- SD 9.5 - Special District Light Pole 9' - 6" Per City of Tempe Std Dtl T-653
- A - Architectural Street Light Pole Per City of Tempe Std Dtl T-652
- e1 - Elevation
- N/A - Not Applicable
- SGNL - Luminaire Mounted on A-2 Signal Pole

- Existing Conduit
- Existing Conductor
- Install Conduit w/Pull Cord (Conductors by Others)
- △ Pole Mounted on Retaining Wall
- Pole Mounted on Pier
- Relocate Existing Pole and Luminaire
- ◇ Luminaire Mounted on A-2 Signal Pole

CONDUCTOR SCHEDULE

AWG	CONDUCTOR USE	NUMBER OF CONDUCTORS PER CONDUIT																																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
	CONDUIT RUN NUMBER																																					
	CONDUIT SIZE (IN)	2	2	2	2	2	2	2	3	2	2	2	1	3	1	1	2	2	2	1	1	2	1	1	3													
#8	Lighting Circuit	2	4							2								2	4																			
	Insulated Bond	1	1							1												1	1	1	1													
#6	Lighting Circuit				2	4	8				4	4	4	4																								
	Insulated Bond			1	1	1				1																												
	Existing Lighting Circuit											3	5	5																								
	Existing Insulated Bond											1	1	1																								
#4	Lighting Circuit																																					
	Insulated Bond																																					
#2	Lighting Circuit																																					
	Insulated Bond																																					
	Future Lighting Circuit																																					
#10	Lighting Circuit																																					
	Insulated Bond																																					
APS DESIGN	Street Lighting Circuit																																					

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DRAWN	J. DeBusso	7/91	
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		SECOND MILL AVENUE BRIDGE LIGHTING SCHEDULE	
PROJECT NO. 906335		DWS. NO. 1-4 5	