

1 ELECTRICAL SITE PLAN

SCALE: 1" = 40'-0"

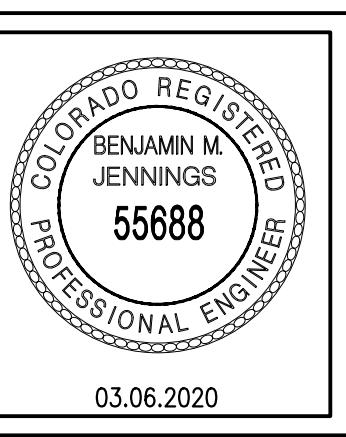
LUMINAIRE SCHEDULE - LYONS VALLEY - EXTERIOR							3/9/2020
LUMINAIRE	MANUFACTURER	CATALOG NUMBER	LAMPS	INPUT WATTS	VOLTAGE	MOUNTING	COMMENTS
PL1	LITHONIA	DSX0 LED P3 30K TFTM VOLT SPA PER7 HS DDBXD	LED	71	240	POLE	Note #1
PL2	LITHONIA	DSX0 LED P7 30K T2S VOLT SPA PER7 HS DDBXD	LED	166	240	POLE	Note #2

Notes:

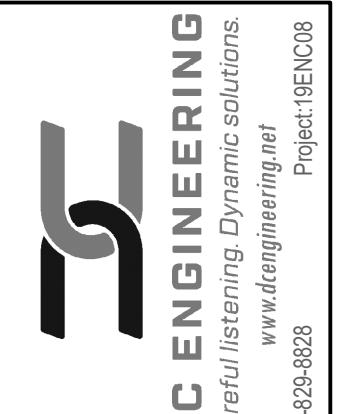
General Note: Contractor shall provide and coordinate all fixture mounting accessories.  
 1. Provide wind rated pole for area. Refer to mounting detail for base. Provide with DLL127F1.5 JU photocell.  
 2. Provide wind rated pole for area. Refer to mounting detail for base. Provide with DLL127F1.5 JU photocell.

**GENERAL NOTES:**

- A. ELECTRICAL CONTRACTOR TO PROVIDE ALL SECONDARY CABLING, CONDUIT, AND TRANSFORMER PADS AS REQUIRED BY THE CITY OF LYONS.
- B. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL TRENCHING, CONDUIT AND CABLING FOR ROADWAY LIGHTS. COORDINATE INSTALLATION WITH ELECTRICAL UTILITY COMPANY.
- C. REFER TO EACH SET OF BUILDING PLANS SHEET E3.0 FOR LOAD CALCULATIONS.
- D. GREEN COMMUNITY REQUIREMENTS:  
 -INSTALL INDIVIDUAL ELECTRIC METER FOR EACH UNIT.  
 -INSTALL CONDUIT FOR PV ARRAY PROVISIONS. REFER TO SHEET E5.0.
- E. FIRE ALARM PANELS CONNECTED TO FACP IN BUILDING A OFFICE, FA SERVICE TO BUILDING A. COORDINATE WITH LOCAL FIRE MARSHALL.
- F. TYPE A AND A/V UNIT QUANTITIES: REFER TO ARCHITECTURAL PLANS FOR DETAILS:  
 1 TYPE A SINGLE FAMILY UNIT  
 1 TYPE A AND 1 TYPE A/V IN BUILDING A  
 1 TYPE A IN BUILDING B



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suite 110b  
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59808  
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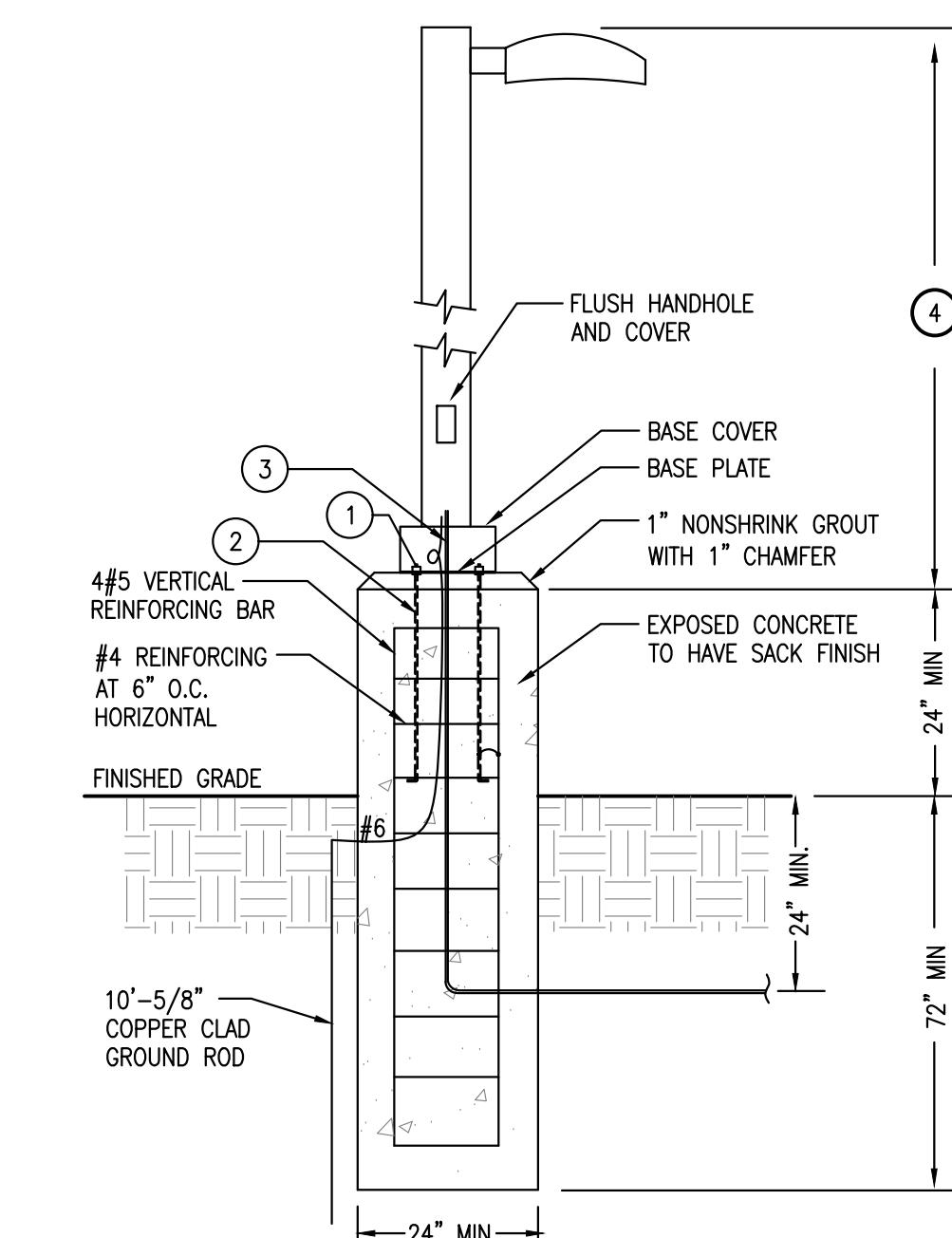


**LYONS VALLEY TOWNHOMES**  
LYONS, CO

BID SET  
03/06/2020  
ELECTRICAL SITE PLAN

EDI Job #: 18.121

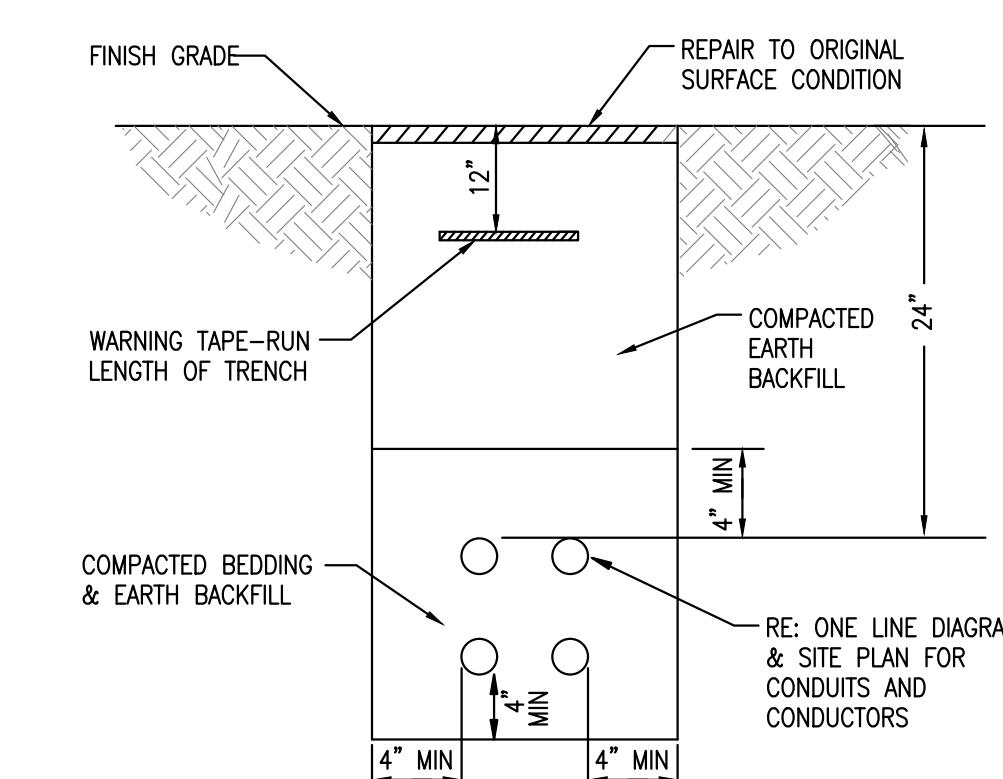
E1.0



**KEYED NOTES:**

1. PROVIDE STAINLESS STEEL LOCKNUTS AND LOCKWASHERS.
2. PROVIDE ANCHOR BOLTS TO MATCH PATTERN AS PROVIDED BY MANUFACTURER.
3. STUB 3/4" C-6" ABOVE POLE BASE.
4. 16' FOR PL1, 22' FOR PL2.

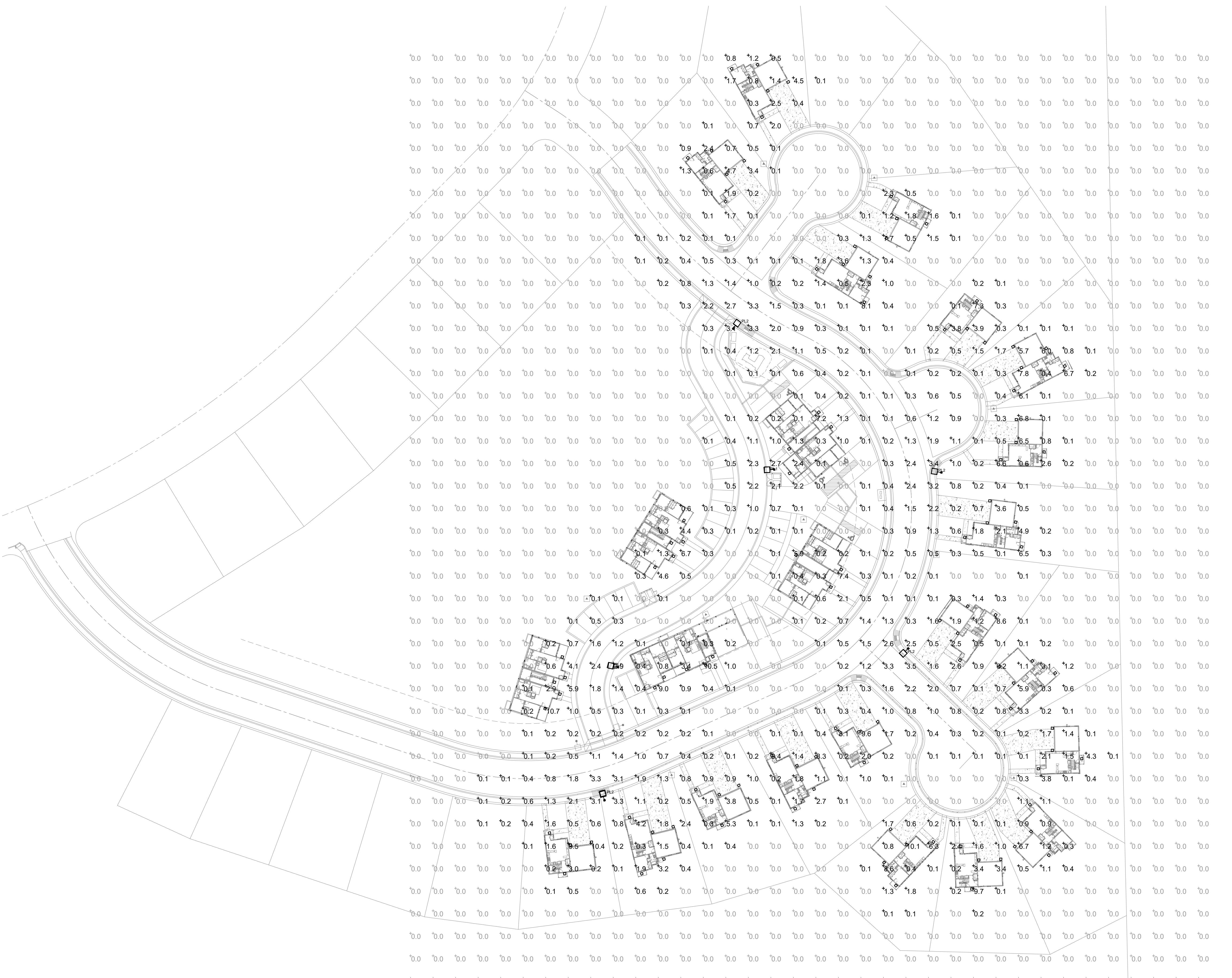
**2 LIGHT POLE DETAIL - PL1,PL2**



**3 UNDERGROUND CONDUIT DETAIL**

SCALE: NTS

NOT FOR CONSTRUCTION



### 1 ELECTRICAL PHOTOMETRICS

NORTH

SCALE: 1' = 40'-0"

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E1.1

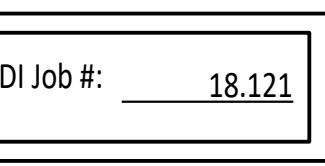
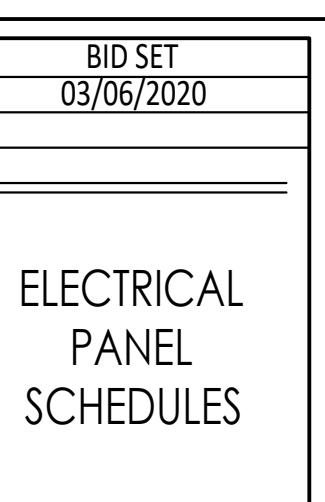
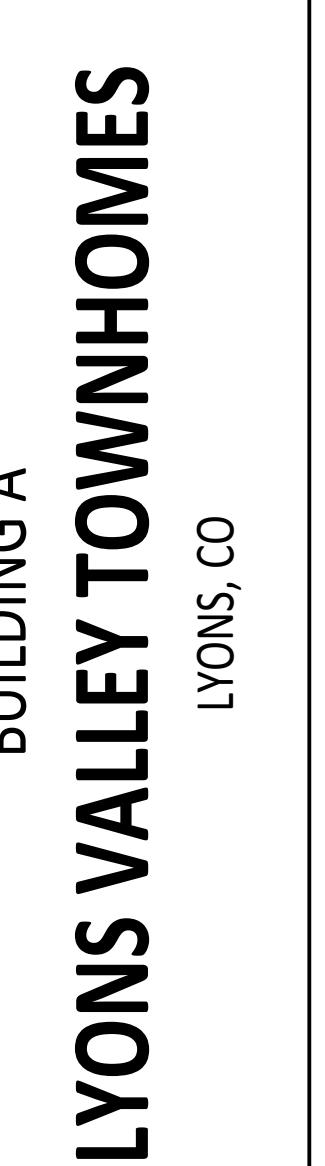
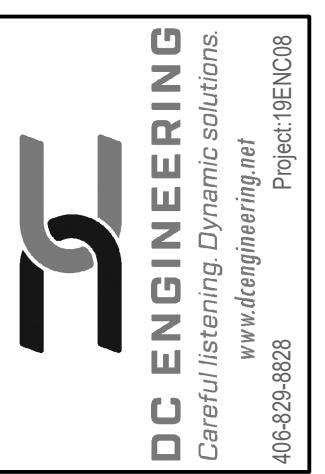
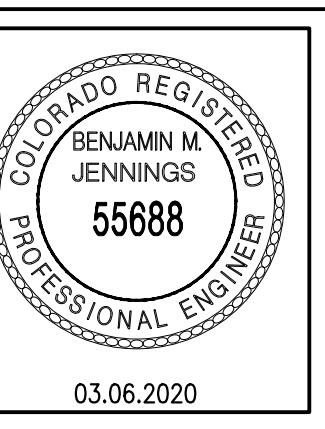
BID SET  
03/06/2020  
ELECTRICAL  
PHOTOMETRIC  
SITE PLAN

EDI Job #: 18.121

DC ENGINEERING  
Careful listening. Dynamic solutions.  
www.dceengineering.net  
406-839-8828  
Project:19EN08

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phone: 406.540.4437

COLORADO REGISTERED  
BENJAMIN M.  
JENNINGS  
55688  
03.06.2020

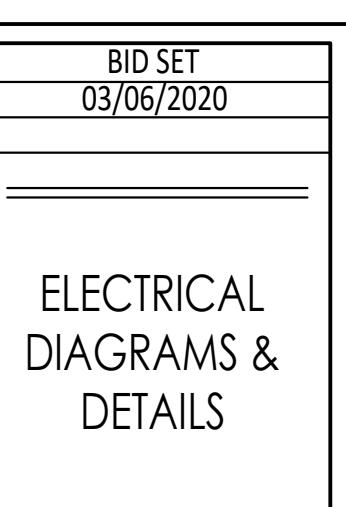
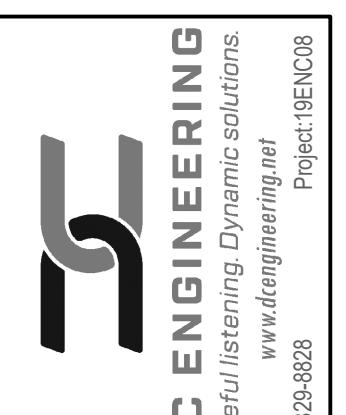
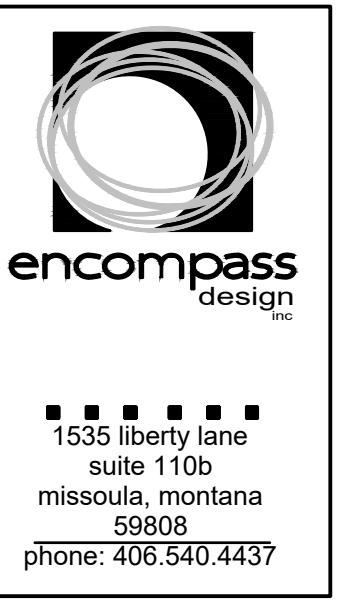
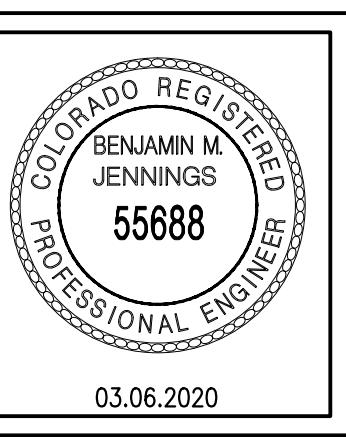


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PANELBOARD SCHEDULE																
PANEL: A (MULTI-FAM UNITS)		PROJECT: Lyons														
VOLTAGE: 240/120V	PHASE: 1	WIRE: 3	AMPERE RATING: 125	SC RATING: 10,000	MAIN: MLO											
ENTRY: TOP/BOTTOM	MOUNTING: SURFACE															
LOADS:	Amps	VA	LOAD TYPES:	REMARKS: LOAD CENTER PROVIDE AFCI/GFCI PROTECTION WHERE REQUIRED BY CODE EVEN IF NOT SHOWN ON PLANS 1 = LIGHTING 2 = RECEPTACLES * AFCI CIRCUIT BREAKER 3 = MISC ** AFGFCI COMBO BREAKER *** PROVIDE PERMANENTLY MOUNTED CIRCUIT BREAKER LOCK-OFF DEVICE 4 = MOTOR												
PHASE A:	0	0		* RECEPT. LIVING ROOM RECEPT. BATHROOM RANGE RANGE ** RECEPT. HOOD MICRO * RECEPT. BED ROOM 1 * RECEPT. BED ROOM 2 CARPORT RECEPT. GARBAGE DISPOSAL SPARE												
PHASE B:	0	0		1 = LIGHTING 2 = RECEPTACLES * AFCI CIRCUIT BREAKER 3 = MISC ** AFGFCI COMBO BREAKER *** PROVIDE PERMANENTLY MOUNTED CIRCUIT BREAKER LOCK-OFF DEVICE 4 = MOTOR												
TOTAL:	0	0		* RECEPT. REFER ** RECEPT. KITCHEN ** RECEPT. KITCHEN * LIGHTING/SMOKE DETECTORS SPARE * WASHER 2 DRYER 2 DRYER *** WATER HEATER												
LOAD (VA)	LOAD SERVED		LOAD TYPE	AMPS/POLES	CKT NO	CKT NO	AMPS/POLES	LOAD TYPE	LOAD	LOAD SERVED		LOAD (VA)				
* RECEPT. LIVING ROOM	2	20	1	1	A	2	20	1	2	* RECEPT. REFER						
RECEPT. BATHROOM	2	20	1	3	B	4	20	1	2	** RECEPT. KITCHEN						
RANGE	2	50	2	5	A	6	20	1	2	** RECEPT. KITCHEN						
RANGE	2	*	*	7	B	8	20	1	2	** DISHWASHER						
** RECEPT. HOOD MICRO	2	20	1	9	A	10	20	1	1	* LIGHTING/SMOKE DETECTORS						
* RECEPT. BED ROOM 1	2	20	1	11	B	12	20	1	1	SPARE						
* RECEPT. BED ROOM 2	2	20	1	13	A	14	20	1	2	* WASHER						
CARPORT RECEPT.	2	20	1	15	B	16	30	2	2	DRYER						
GARBAGE DISPOSAL	2	20	1	17	A	18	*	*	2	DRYER						
SPARE	20	1	19	B	20	30	2	3	*** WATER HEATER							
CU	4	25	2	21	A	22	*	*	3	*** WATER HEATER						
CU	4	*	*	23	B	24	15	1	4	FURNACE						

DWELLING UNIT OPTIONAL CALCULATION NEC 220.82										
BLDG. A SERVICE		SQUARE FOOTAGE								
2BR		850	2							
GEN. LIGHTING		850	3	2550						
SMALL APPL.				3000						
RANGE				10000						
WASHER				1500						
DRYER				5000						
WATER HEATER				4500						
FURNACE				900						
SUB TOTAL				27450						
1ST 10KW				-10000						
REM				17450						
REM X.4				0.4						
1ST 10KW+.4 REM				10000						
ELECTRIC AC				16980	1	3432	3432			
TOTAL				20412						
TOTAL AMP				85.05	85.05					

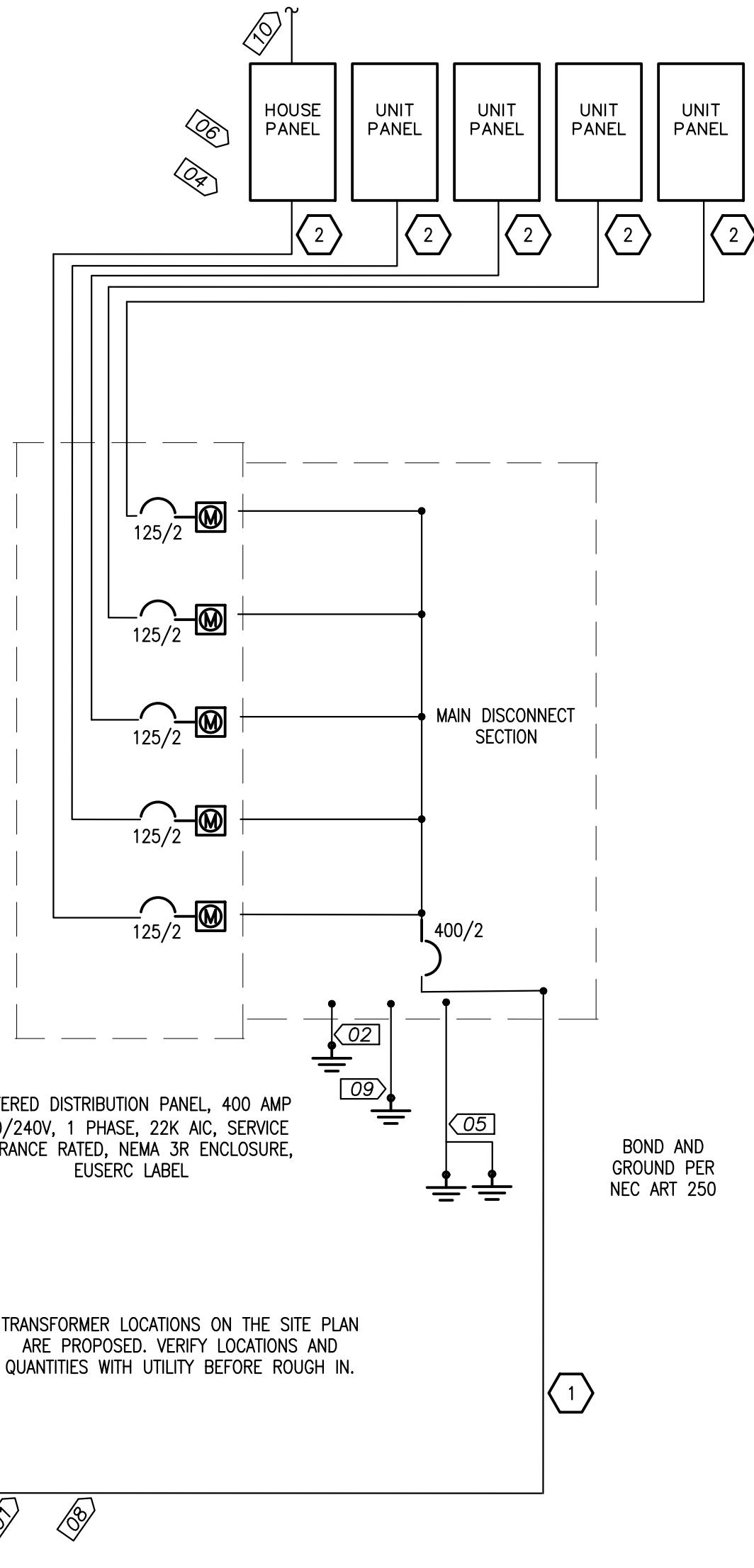
PANELBOARD SCHEDULE																
PANEL: H (Buildings A&B)		PROJECT: Lyons														
VOLTAGE: 240/120V	PHASE: 1	WIRE: 3	AMPERE RATING: 225	SC RATING: 22,000	MAIN: MLO											
ENTRY: TOP/BOTTOM	MOUNTING: SURFACE															
LOADS:	Amps	VA	LOAD TYPES:	REMARKS: PANELBOARD, COPPER BUSSES, BOLT ON BREAKERS, DOOR-IN-DOOR 1 = LIGHTING 2 = RECEPTACLES * GFCI CIRCUIT BREAKER 3 = MISC **ONLY FOR BUILDING A 4 = MOTOR												
PHASE A:	75	9893		* RECEPT. LIVING ROOM RECEPT. BATHROOM RANGE RANGE ** RECEPT. HOOD MICRO * RECEPT. BED ROOM 1 * RECEPT. BED ROOM 2 CARPORT RECEPT. GARBAGE DISPOSAL SPARE												
PHASE B:	81	9673		1 = LIGHTING 2 = RECEPTACLES * GFCI CIRCUIT BREAKER 3 = MISC **ONLY FOR BUILDING A 4 = MOTOR												
TOTAL:	78	18656		* RECEPT. REFER ** RECEPT. KITCHEN ** RECEPT. KITCHEN * LIGHTING/SMOKE DETECTORS SPARE * WASHER 2 DRYER 2 DRYER *** WATER HEATER												
LOAD (VA)	LOAD SERVED		LOAD TYPE	AMPS/POLES	CKT NO	CKT NO	AMPS/POLES	LOAD TYPE	LOAD	LOAD SERVED		LOAD (VA)				
200 FACP	3	20	1	1	A	2	20	1	3	RADON FAN		500				
875 EBB-1.2 CORRIDOR	3	20	2	3	B	4	20	2	2	OUTDOOR RECEPTACLES		1080				
875 EBB-1.2 CORRIDOR	3	*	*	5	A	6	20	1	2	MECHANICAL ROOM RECEPTS.		360				
500 EWH-1	3	20	2	7	B	8	20	1	2	ERV-1		42				
500 EWH-1	3	*	*	9	A	10	20	1	2	ITB RECEPT.		360				
384 BUILDING COMMON LIGHTING	1	20	1	11	B	12	20	*	2	**ROAD LIGHTING BUILDINGS A THRU E		106				
180 CORRIDOR RECEPTS.	1	20	1	13	A	14	*	2	2	**ROAD LIGHTING BUILDINGS A THRU E		106				
200 EF-2	4	20	1	15	B	16	20	*	2	**ROAD LIGHTING FOR CARTER DR.		332				
				17	A	18	*	2	2	**ROAD LIGHTING FOR CARTER DR.		332				
1140 **DSO-1/DSI-1	3	15	2	19	B	20	20	1	2	**OFFICE RECEPTS.		720				
1140 **DSO-1/DSI-1	3	*	*	21	A	22										
44 **OFFICE EF-2s	3	20	1	23	B	24										



EDI Job #: 18.121

E5.0

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**1a. ONE LINE DIAGRAM - METER BANK**

CONDUIT AND WIRE SCHEDULE					
FEEDER #	CONDUIT	PHASE	NEUTRAL	GROUND	NOTES
1	(2) 2-1/2"	#250	#250		1
2	1 1/2"	#1/0	#1/0	#4	1

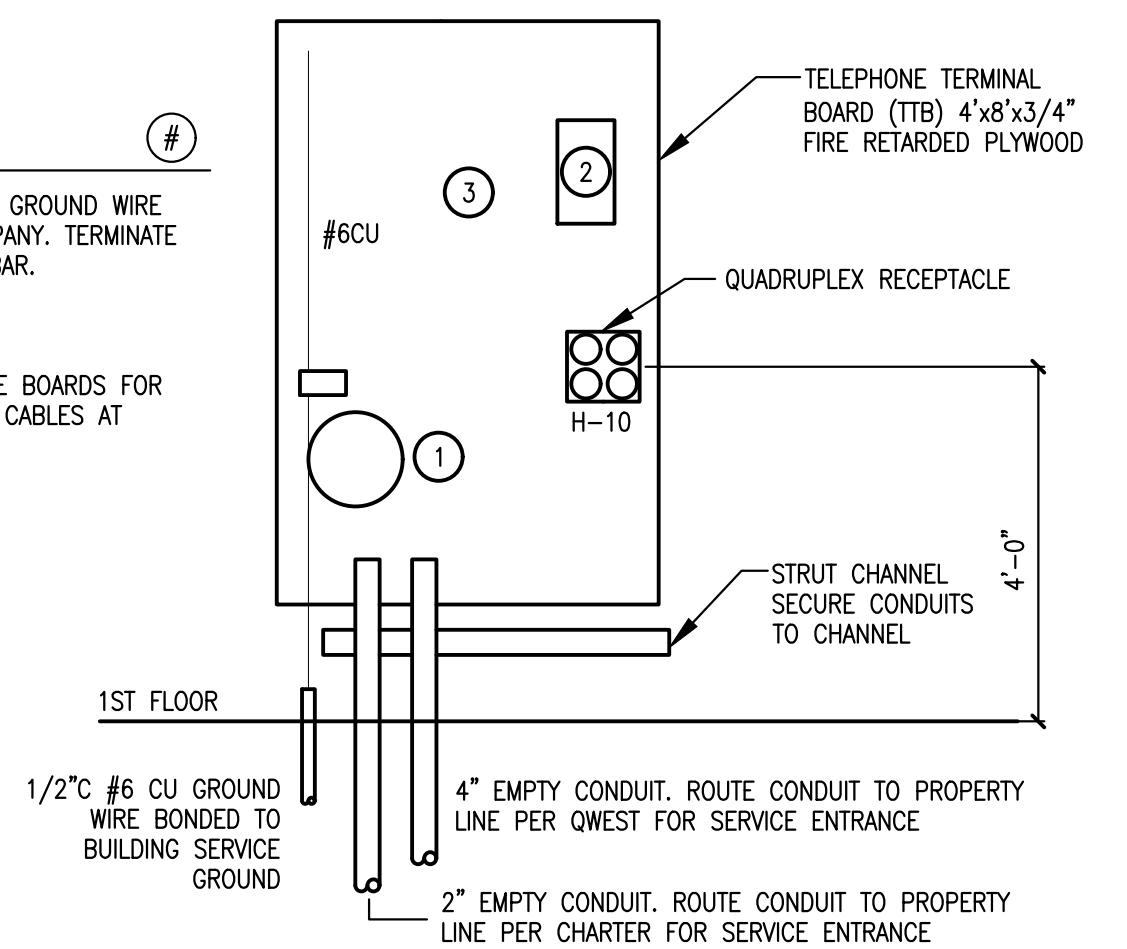
**1C CONDUIT AND WIRE SCHEDULE**

**ELECTRICAL RISER DIAGRAM KEYED NOTES:**

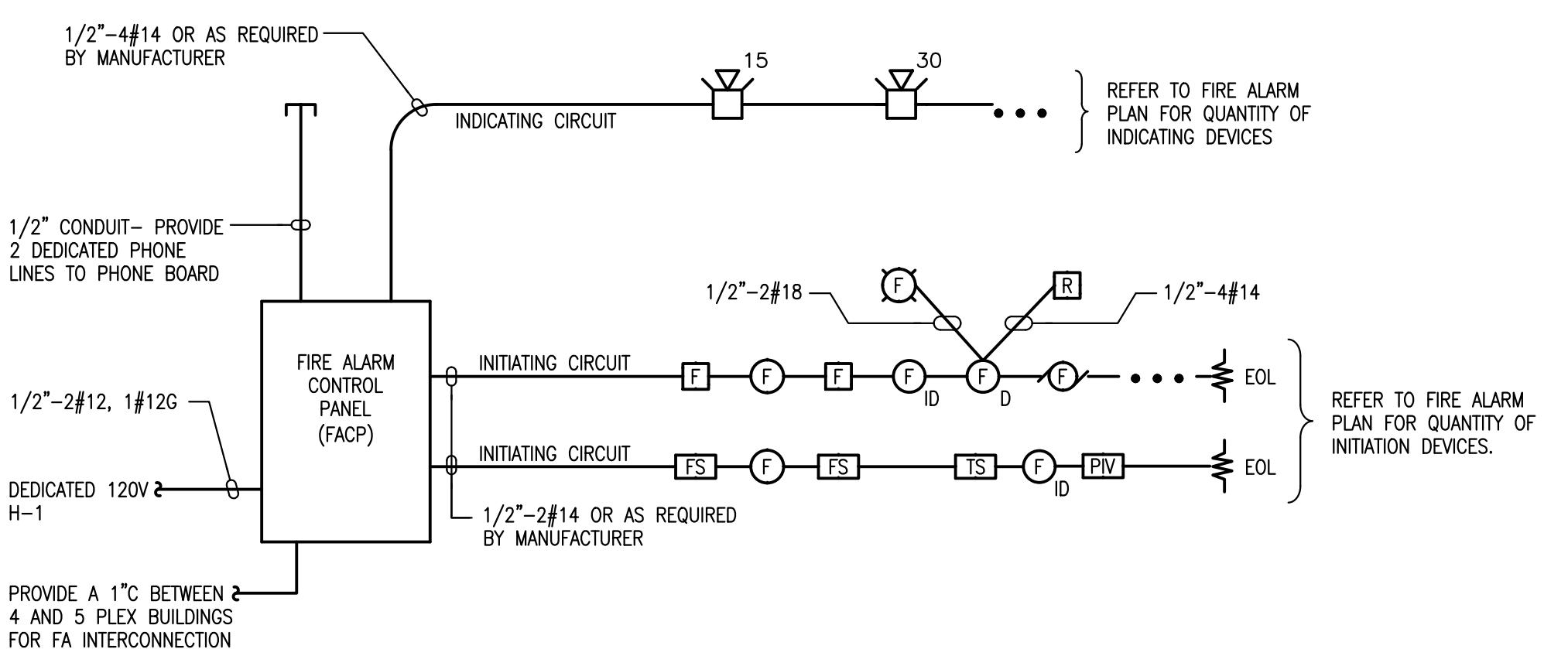
- SECONDARY WIRE AND CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR. COORDINATE WITH UTILITY.
- PROVIDE AND INSTALL #4 AWG COPPER GROUND TO CONCRETE ENCASED ELECTRODE IN ACCORDANCE WITH NEC 250.52.3 AND 4/0 CU TO COLD WATER PIPE IN ACCORDANCE WITH NEC 250.53.D.
- TRANSFORMER PAD BY THE ELECTRICAL CONTRACTOR COORDINATE W/ UTILITY. GROUND AND BOND ACCORDING TO NEC 250.
- ALL AL CONDUCTORS U.N.O. NO ALUMINUM CONDUCTORS SMALLER THAN #2/0 AWG SHALL BE USED FOR WIRING OF SERVICES. ALUMINUM SHALL NOT BE ALLOWED FOR THE HOUSE PANEL.
- PROVIDE AND INSTALL (2) 5/8"X 8' CU CLAD GROUND RODS INSTALLED 6' APART CONNECTED W/ A #6 CU.
- TYPICAL UNIT FEEDER. NOTE: NEUTRAL REDUCTION NOT ALLOWED NEC ART 220.61.C. 2" C-#2/0, 1-#4 GND AL TYPE SER CABLE ACCEPTABLE WHERE APPROVED BY THE NEC AND AHJ. SEE VOLTAGE DROP TABLE 14/E5.0.
- FAULT CURRENT RATING: FULLY RATE SYSTEM OR PROVIDE SERIES RATING WITH DOCUMENTATION. CONFIRM AVAILABLE FAULT CURRENT WITH UTILITY.
- CONTRACTOR TO PROVIDE ALL TRENCHING, COORDINATE WITH UTILITY FOR REQUIREMENTS.
- SERVICE BOND #2 CU.
- ROUTE CAPPED 2" CONDUIT FROM SERVICE LOCATION TO UNDER ROOFTOP FOR FUTURE SOLAR PROVISION. CONSULT WITH ARCHITECT FOR CONDUIT STUB LOCATION.

**GENERAL NOTES**

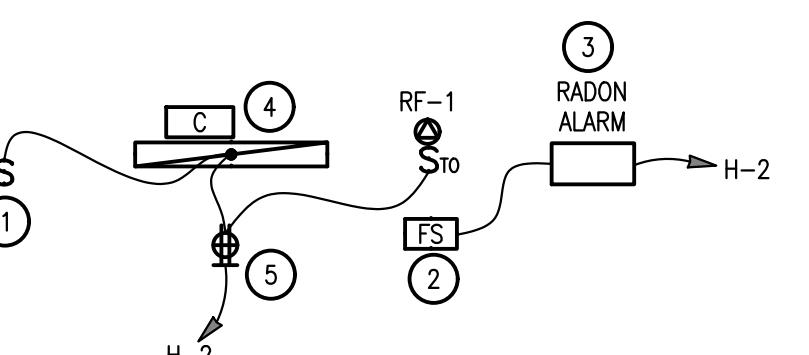
- COORDINATE ALL WORK AND EQUIPMENT WITH UTILITY. INSTALL EQUIPMENT TO UTILITY SPECIFICATIONS. OBTAIN GEAR APPROVAL BEFORE ORDERING ANY EQUIPMENT.
- FULLY RATE OR FACTORY SERIES RATE.
- ALUMINUM CAN BE SUBSTITUTED PROVIDED WIRE AND CONDUIT SIZE IS ADJUSTED AND VOLTAGE DROP IS CONSIDERED.
- VERIFY AVAILABLE FAULT CURRENT WITH UTILITY. GET UTILITY APPROVAL ON ELECTRICAL SERVICE GEAR BEFORE ORDERING.



**2 TELEPHONE/CABLE TV TERMINAL BOARD**



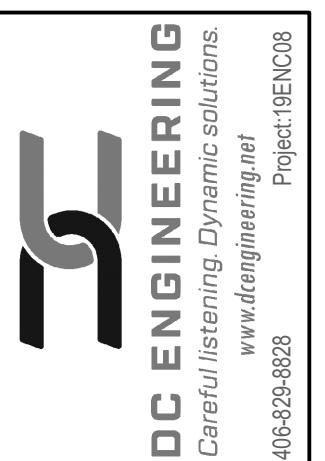
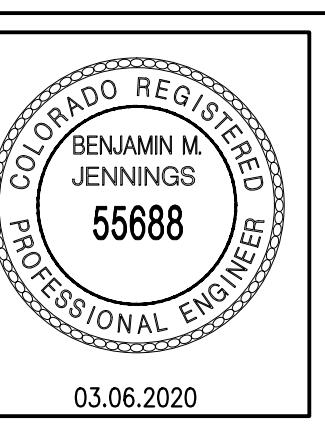
**3 FIRE ALARM SYSTEM RISER DIAGRAM**



**4 RADON FAN DETAIL**

**KEYNOTES**

- LOCATE LIGHT SWITCH ADJACENT TO ATTIC SPACE ACCESS. COORDINATE WITH ARCHITECT.
- FLOW SWITCH ON RADON FAN.
- RADON ALARM PROVISION LOCATION. LOCATE IN MECHANICAL ROOM.
- LIGHT IN ATTIC SPACE NEAR RADON FAN LOCATION.
- MOUNT RECEPTACLE IN ATTIC SPACE WITHIN 10' OF PROPOSED RADON FAN LOCATION. COORDINATE WITH ARCHITECT.



PANELBOARD SCHEDULE											
PANEL: A (MULTI-FAM UNITS)		PROJECT: Lyons									
VOLTAGE: 240/120V	PHASE 1	WIRE: 3	AMPERE RATING: 125	SC RATING: 10,000	MAIN: MLO						
ENTRY: TOP/BOTTOM	MOUNTING: SURFACE										
LOADS:	Amps	VA	LOAD TYPES:	REMARKS: LOAD CENTER 1 = LIGHTING 2 = RECEPTACLES 3 = MSC 4 = MOTOR *** PROVIDE PERMANENTLY MOUNTED CIRCUIT BREAKER LOCK-OFF DEVICE							
LOAD (VA)	LOAD SERVED	LOAD TYPE	AMPS/POLES	CKT NO	PHASE	CKT NO	AMPS/POLES	LOAD TYPE	LOAD SERVED		
• RECEPT LIVING ROOM	2	20	1	1	A	2	20	1	2	• RECEPT. REPER	
RECEPT. BATHROOM	2	20	1	3	B	4	20	1	2	** RECEPT. KITCHEN	
RANGE	2	50	2	5	A	6	20	1	2	** RECEPT. KITCHEN	
RANGE	2	7		7	B	8	20	1	2	** DISHWASHER	
• RECEPT. HOOD MICRO	2	20	1	9	A	10	20	1	1	** LIGHTING/SMOKE DETECTORS	
• RECEPT. BED ROOM 1	2	20	1	11	B	12	20	1	2	SPARE	
• RECEPT. BED ROOM 2	2	20	1	13	A	14	20	1	2	* WASHER	
CARPORT RECEPT.	2	20	1	15	B	16	30	2	2	DRYER	
GARAGE DISPOSAL	2	20	1	17	A	18	*	2	2	DRYER	
SPARE	20	1	19	B	20	30	2	3	***WATER HEATER		
CU	4	25	2	21	A	22	*	3	***WATER HEATER		
CU	4	*	23	B	24	15	1	4	FURNACE		

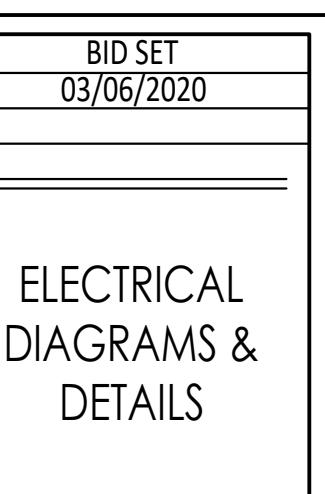
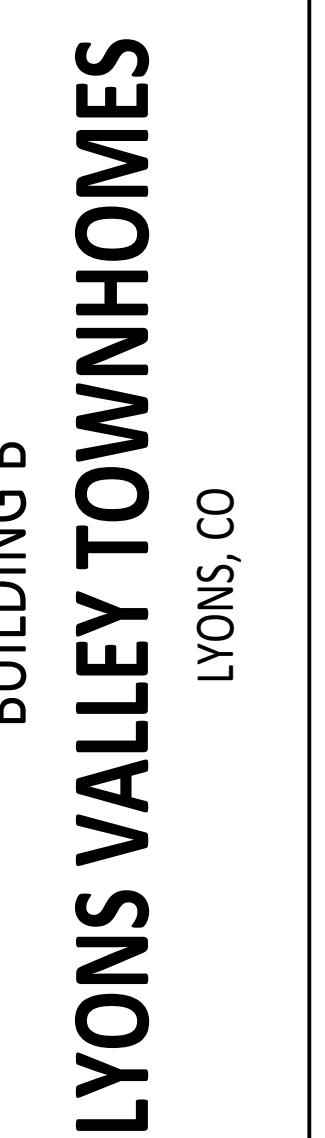
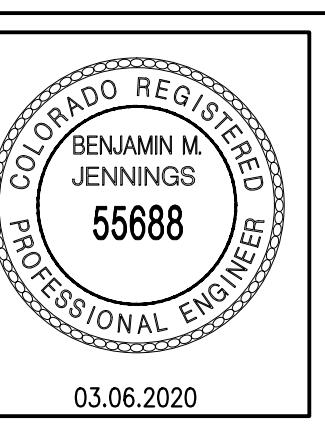
DWELLING UNIT OPTIONAL CALCULATION NEC 220.82									
SQUARE FOOTAGE									
2BR	850	2							
GEN. LIGHTING	850	3	2550						
SMALL APPL.			3000						
RANGE			10000						
WASHER			1500						
DRYER			5000						
WATER HEATER			4500						
FURNACE			900						
SUB TOTAL			27450						
1ST 10KW			-10000						
REM			17450						
REM X.4		0.4	6980						
1ST 10KW + .4 REM			10000						
ELECTRIC AC		1	3432						
TOTAL			20412						
TOTAL AMP			85.05						

LUMINAIRE SCHEDULE - LYONS VALLEY									
3/9/2020									
LUMINAIRE	MANUFACTURER	CATALOG NUMBER	LAMPS	INPUT WATTS	VOLTAGE	MOUNTING	COMMENTS		
A	BROWNLEE	2062 16 WH C24 27K ES	LED	23	120	SURFACE	Note #1		
A2	BROWNLEE	2062 10 WH B12 27K ES	LED	12	120	SURFACE	Note #1		
B	BROWNLEE	7162-GY-C17-35K-BLD ECW ES	LED	16	120	SURFACE			
B2	LIGHTOLIER	S10R8030K22W	LED	23.2	120	SURFACE			
C	LITHONIA	CDS L48 MVOLT DM 35K 80CRI WH	LED	38	120	SURFACE			
C2	LITHONIA	LBL4W 6500LM 80CRI 35K MVOLT	LED	50.1	120	SURFACE			
CF	STAMO	GL-CL003	LED	60	120	CEILING			
D	BROWNLEE	5176-24-BN-H16-35K-ES	LED	16	120	WALL			
E	LITHONIA	ELM2 LED	LED	5	120	WALL/CEILING	Note #4		
F	HEW	SLF 4 L52 827 HIA OCCSWFS FSP 211 L2	LED	58	120	WALL	Note #3		
P	LITHONIA	MDP8 BZ DMCN BZ	LED	9.5	120	PENDANT			
S	LEVITON	9864-LED	LED	8.7	120	SURFACE			
W	NICOR	OWCR4D 5000K	LED	22	120	WALL	Note #5		
W2	BROWNLEE	BZ-C24-30K-BLD-ES	LED	23	120	WALL			
X2	LITHONIA	LHQM LED R HO	LED	5	120	WALL/CEILING			
X3	LITHONIA	LHQM LED R	LED	5	120	WALL/CEILING			
X2R	LITHONIA	ELA B TQWP L0309	LED	3	9.6	WALL/CEILING			

Notes:  
General Note: Contractor shall provide and coordinate all fixture mounting accessories.  
1. Provide compatible dimmer switch.  
2. Provide with bi level dimming. Program 100% occupied, after unoccupied time delay dim to 20% until occupied again.  
3. Provide with high/low occ sensor. Provide one adjustment tool FSIR 100 to owner.  
4. Provide an unswitched circuit for the battery charger.  
5. Low dimming set to 10% after 10 minutes of unoccupied time.

OCCUPANCY SENSOR SCHEDULE									
	TYPE	MANUFACTURER	MODEL	LOCATION	NOTES				
1	OS-1	WATT STOPPER	PW-100	SWTCH	PIR				
2	OS-2	WATT STOPPER	PW-200	SWTCH	PIR				
3	OS-3	WATT STOPPER	PW-100	SWTCH	DUAL TECHNOLOGY				
4	OS-4	WATT STOPPER	PW-200	SWTCH	DUAL TECHNOLOGY				
5	OS-5	WATT STOPPER	UT-355-2	CEILING	LINE VOLTAGE				
6	OS-6	WATT STOPPER	OT-200	WALL	NOTE #1				
7	OS-7	WATT STOPPER	WT-605	CEILING	NOTE #1				
8	OS-8	WATT STOPPER	WT-1105	CEILING	NOTE #1				
9	OS-9	WATT STOPPER	WT-2205	CEILING	NOTE #1				
10	OS-10	WATT STOPPER	WT-2255	CEILING	NOTE #1				
11	OSD	WATT STOPPER	PW-311	WALL	PROVIDE COMPATIBLE SWITCH				
12	PP-1	WATT STOPPER	BZ-50		POWER PACK				
13	RP-1	WATT STOPPER	B347D-P		RELAY PACK				

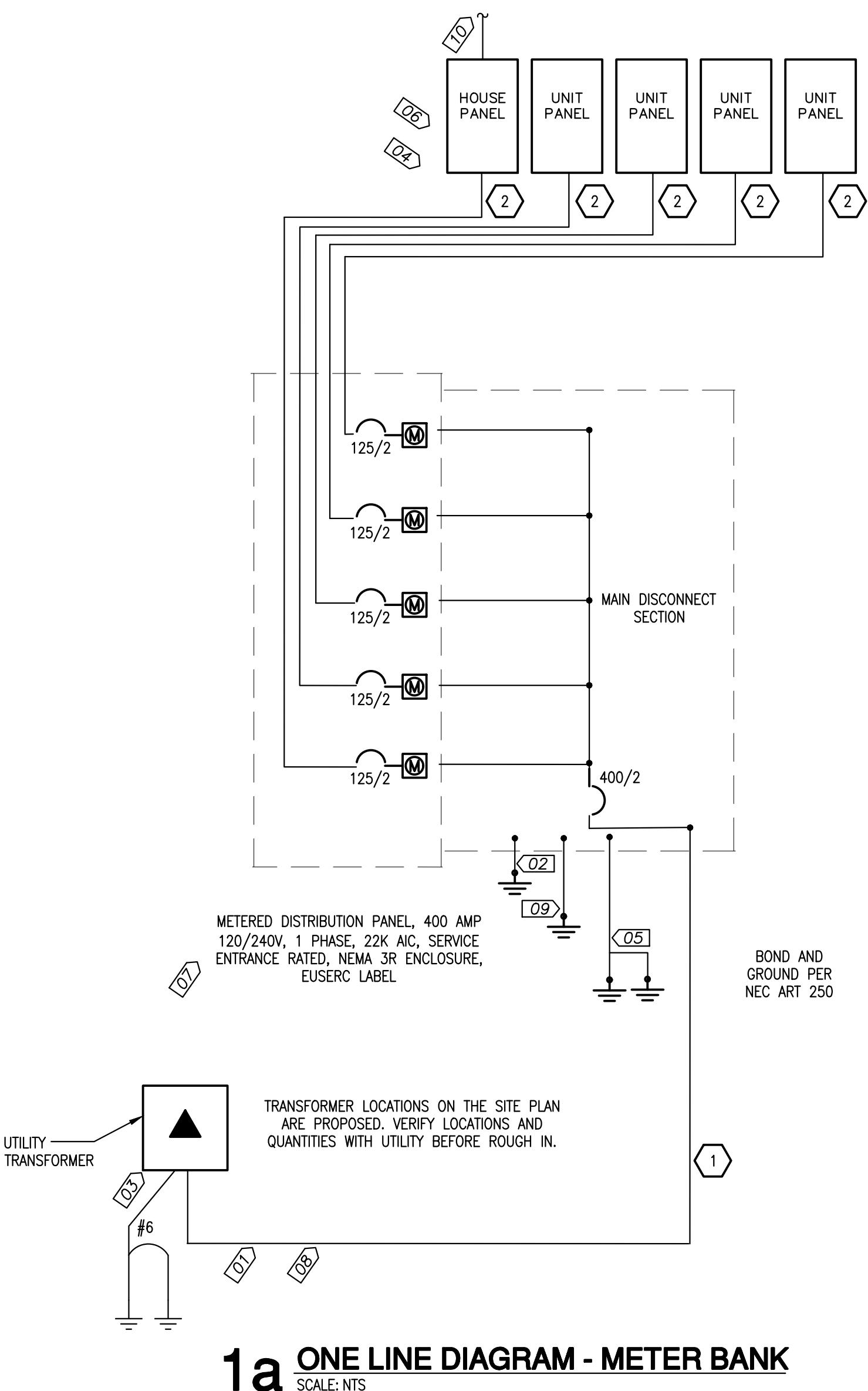
Notes:  
1. Provide power pack/ relay pack as needed.  
2. Within the 1 year warranty period provide, at no additional charge, provide 1 site visit to perform sensor adjustments at the owner's request.  
3. Wattstopper products are specified because of specific capabilities. Substitutions are required to have all of the characteristics of the wattstopper product and shall be prior approved.  
4. Sensor locations shown on the plans are diagrammatic intended for general location only. The contractor is responsible for locating the occupancy sensors according to manufacturers installation instructions taking into account the nature of the area that might cause false triggers. Contractor shall relocate occupancy sensor if necessary to operate within manufacturers requirements.



EDI Job #: 18.121

E5.0

NOT FOR CONSTRUCTION



1b VOLTAGE DROP CHART  
SCALE: NTS

1c CONDUIT AND WIRE SCHEDULE  
SCALE: NTS

CONDUIT AND WIRE SCHEDULE					
FEEDER #	CONDUIT	PHASE	NEUTRAL	GROUND	NOTES
1	(2) 2-1/2"	#250	#250		1
2	1 1/2"	#1/0	#1/0	#4	1
NOTES:					
1. ALUMINUM CONDUCTORS					

**ELECTRICAL RISER DIAGRAM KEYED NOTES:**

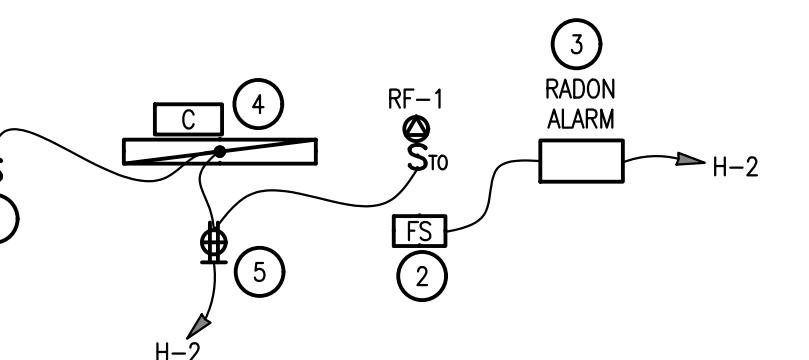
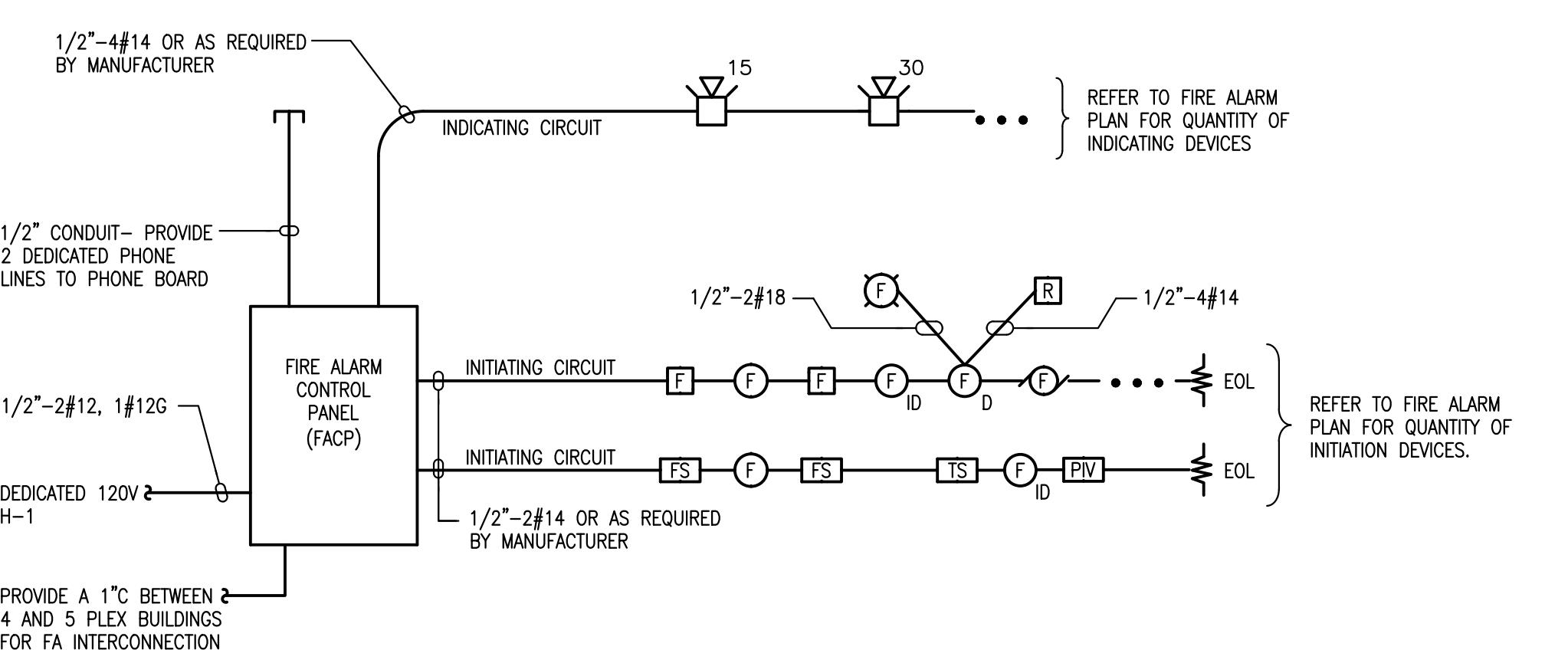
- 01 SECONDARY WIRE AND CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR. COORDINATE WITH UTILITY.
- 02 PROVIDE AND INSTALL #4 AWG COPPER GROUND TO CONCRETE ENCASED ELECTRODE IN ACCORDANCE WITH NEC 250.52.3 AND 4/0 CU TO COLD WATER PIPE IN ACCORDANCE WITH NEC 250.53.D.
- 03 TRANSFORMER PAD BY THE ELECTRICAL CONTRACTOR COORDINATE W/ UTILITY. GROUND AND BOND ACCORDING TO NEC 250.
- 04 ALL AL CONDUCTORS U.N.O. NO ALUMINUM CONDUCTORS SMALLER THAN #2/0 AWG SHALL BE USED FOR WIRING OF SERVICES. ALUMINUM SHALL NOT BE ALLOWED FOR THE HOUSE PANEL.
- 05 PROVIDE AND INSTALL (2) 5/8" X 8' CU CLAD GROUND RODS INSTALLED 6' APART CONNECTED W/ A #6 CU.
- 06 TYPICAL UNIT FEEDER. NOTE: NEUTRAL REDUCTION NOT ALLOWED NEC ART 220.61.C, 2'C, 3-#2/0, 1-#4 GND AL TYPE SER CABLE ACCEPTABLE WHERE APPROVED BY THE NEC AND AHJ. SEE VOLTAGE DROP TABLE 1a/E5.0.
- 07 FAULT CURRENT RATING: FULLY RATE SYSTEM OR PROVIDE SERIES RATING WITH DOCUMENTATION. CONFIRM AVAILABLE FAULT CURRENT WITH UTILITY.
- 08 CONTRACTOR TO PROVIDE ALL TRENCHING, COORDINATE WITH UTILITY FOR REQUIREMENTS.
- 09 SERVICE BOND #2 CU.
- 10 ROUTE CAPPED 2" CONDUIT FROM SERVICE LOCATION TO UNDER ROOFTOP FOR FUTURE SOLAR PROVISION. CONSULT WITH ARCHITECT FOR CONDUIT STUB LOCATION.

**KEYNOTES**

1. PROVIDE 8' OF COILED #6 CU GROUND WIRE FOR USE BY TELEPHONE COMPANY. TERMINATE IN AN INTERSYSTEM GROUND BAR.
2. TELEPHONE DEMARK.
3. PROVIDE SPACE ON ALL PHONE BOARDS FOR CABLE TV. TERMINATE UNIT TV CABLES AT THESE BOARDS.

1/2" #6 CU GROUND WIRE BONDED TO BUILDING SERVICE GROUND  
4" EMPTY CONDUIT. ROUTE CONDUIT TO PROPERTY LINE PER QWEST FOR SERVICE ENTRANCE  
2" EMPTY CONDUIT. ROUTE CONDUIT TO PROPERTY LINE PER CHARTER FOR SERVICE ENTRANCE

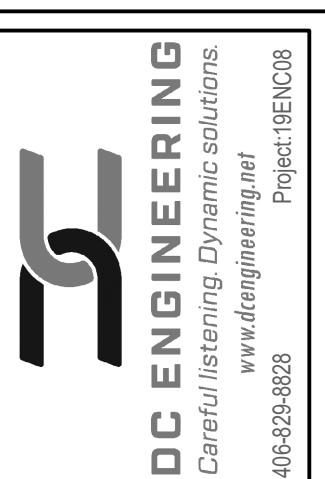
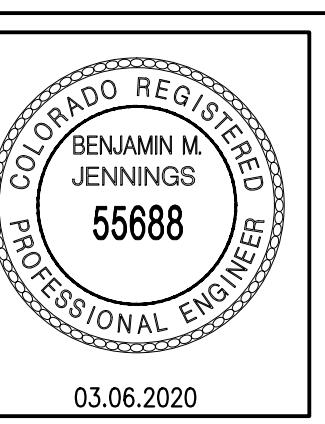
2 TELEPHONE/CABLE TV TERMINAL BOARD  
SCALE: NTS



**KEYNOTES**

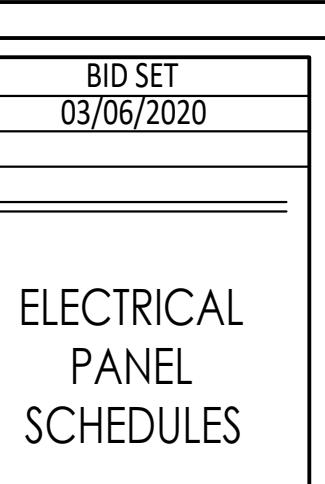
1. LOCATE LIGHT SWITCH ADJACENT TO ATTIC SPACE ACCESS. COORDINATE WITH ARCHITECT.
2. FLOW SWITCH ON RADON FAN.
3. RADON ALARM PROVISION LOCATION. LOCATE IN MECHANICAL ROOM.
4. LIGHT IN ATTIC SPACE NEAR RADON FAN LOCATION.
5. MOUNT RECEPTACLE IN ATTIC SPACE WITHIN 10' OF PROPOSED RADON FAN LOCATION. COORDINATE WITH ARCHITECT.

4 RADON FAN DETAIL  
SCALE: NTS



## LYONS VALLEY TOWNHOMES

LYONS, CO



EDI Job #: 18.121

E3.0

NOT FOR CONSTRUCTION

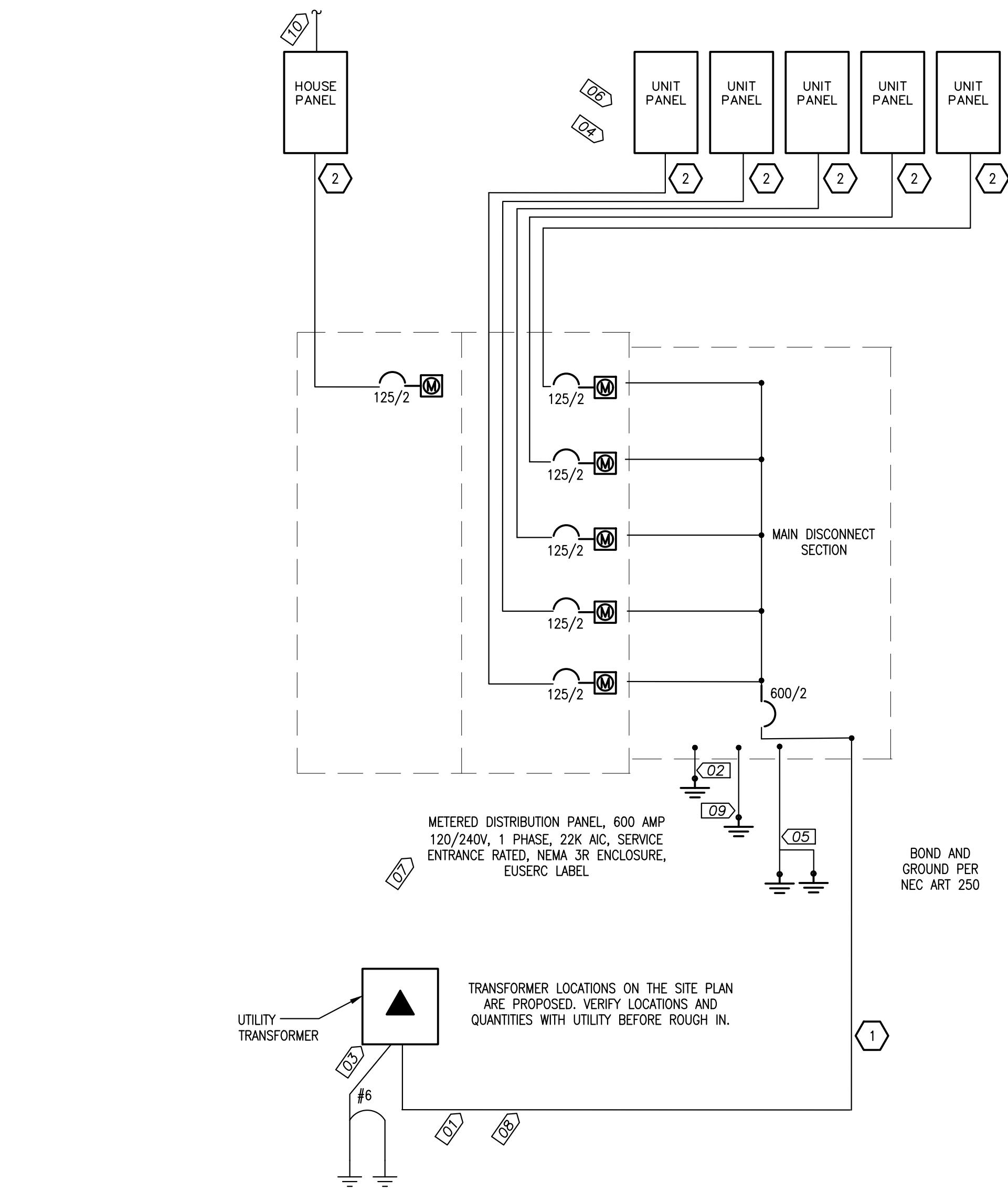
PANELBOARD SCHEDULE																		
PANEL: H (Building C)		PROJECT: Lyons																
VOLTAGE: 240/120V		PHASE: 1		WIRE: 3		AMPERE RATING: 225		SC RATING: 22,000		MAIN: MLO								
ENTRY: TOP/BOTTOM MOUNTING: SURFACE																		
LOADS: Amps VA LOAD TYPES: PHASE A: 40 4771 1 = LIGHTING PANELBOARD, COPPER BUSSES, BOLT ON BREAKERS, DOOR-IN-DOOR PHASE B: 38 4609 2 = RECEPTACLES * GFCI CIRCUIT BREAKER 3 = MISC TOTAL: 39 9380 4 = MOTOR																		
LOAD (VA)	LOAD SERVED	LOAD TYPE	AMPS/ POLES	CKT NO	PHASE	CKT NO	AMPS/ POLES	LOAD TYPE	LOAD SERVED	LOAD (VA)								
200 FACP			3	20	1	1	A	2	20	1	3 RADON FAN	500						
200 EF-2 MECHANICAL ROOM			4	20	1	3	B	4	20	1	2 OUTDOOR RECEPTACLES	900						
500 EMH-1			3	20	2	5	A	6	20	1	2 MECHANICAL RECEPTACLES	360						
500 EMH-1			3	*	7	8	B	20	1	1 SPARE								
21 ERV-1			3	15	1	9	A	10	20	1	2 TTB RECEPT.	360						
384 BUILDING COMMON LIGHTING			1	20	1	11	B	12										
1080 CORRIDOR RECEPTS			1	20	1	13	A	14										
1750 EBB-1.2 SECOND FLOOR			3	20	2	15	B	16										
1750 EBB-1.2 SECOND FLOOR			3	*	17	18												
875 EBB-1.2 FIRST FLOOR			3	20	2	19	B	20										
875 EBB-1.2 FIRST FLOOR			3	*	*	21	A	22										
			23	B	24													
			25	A	26													
			27	B	28													
			29	A	30													
			31	B	32													
			33	A	34													
			35	B	36													
			37	A	38													
			39	B	40													
			41	A	42													
FUTURE PV BREAKER SPACE																		
FUTURE PV BREAKER SPACE																		

PANELBOARD SCHEDULE																		
PANEL: A (MULTI-FAM UNITS)		PROJECT: Lyons																
VOLTAGE: 240/120V		PHASE: 1		WIRE: 3		AMPERE RATING: 125		SC RATING: 10,000		MAIN: MLO								
ENTRY: TOP/BOTTOM MOUNTING: SURFACE																		
LOADS: Amps VA LOAD TYPES: PHASE A: 0 0 1 = LIGHTING 1 = LIGHTING PHASE B: 0 0 2 = RECEPTACLES 2 = RECEPTACLES 3 = MISC 3 = MISC TOTAL: 0 0 4 = MOTOR 4 = MOTOR																		
LOAD (VA)	LOAD SERVED	LOAD TYPE	AMPS/ POLES	CKT NO	PHASE	CKT NO	AMPS/ POLES	LOAD TYPE	LOAD SERVED	LOAD (VA)								
200 RECEPT LIVING ROOM			2	20	1	1	A	2	20	1	2 * RECEPT. REFER							
RECEPT. BATHROOM			2	20	1	3	B	4	20	1	2 ** RECEPT. KITCHEN							
RANGE			2	50	2	5	A	6	20	1	2 ** RECEPT. KITCHEN							
RANGE			2	*	7	8	B	8	20	1	2 ** DISHWASHER							
** RECEPT. HOOD MICRO			2	20	1	9	A	10	20	1	1 * LIGHTING/SMOKE DETECTORS							
* RECEPT. BED ROOM 1			2	20	1	11	B	12	20	1	1 SPARE							
* RECEPT. BED ROOM 2			2	20	1	13	A	14	20	1	2 * WASHER							
CARPORT RECEPT.			2	20	1	15	B	16	30	2	2 DRYER							
GARBAGE DISPOSAL			2	20	1	17	A	18	*	*	2 DRYER							
SPARE			20	1	19	B	20	30	2	3 ***WATER HEATER								
CU			4	25	2	21	A	22	*	*	3 ***WATER HEATER							
CU			4	*	*	23	B	24	15	1	4 FURNACE							

LUMINAIRE SCHEDULE - LYONS VALLEY							3/9/2020	
LUMINAIRE	MANUFACTURER	CATALOG NUMBER	LAMPS	INPUT WATTS	VOLTAGE	MOUNTING	COMMENTS	
A	BROWNLEE	2062 16 WH C24 27K ES	LED	23	120	SURFACE	Note #1	
A2	BROWNLEE	2062 10 WH B12 27K ES	LED	12	120	SURFACE	Note #1	
B	BROWNLEE	7162-GY-C17-35K-BLD ECW ES	LED	16	120	SURFACE		
B2	LIGHTOLIER	S10R8030K22W	LED	23.2	120	SURFACE		
C	LITHONIA	CDS 1.48 MVOLT DM 35K 80CR1 WH	LED	38	120	SURFACE		
C2	LITHONIA	LBL4W 6500LM 80CR1 35K MVOLT	LED	50.1	120	SURFACE		
CF	STAMO	GL-CL003	LED	60	120	CEILING		
D	BROWNLEE	5176-24-BN-H16-35K-ES	LED	16	120	WALL		
E	LITHONIA	ELM2 LED	LED	5	120	WALL/CEILING	Note #4	
F	HEW	SLF 4 L52 827 HIA OCCWS FSP 211 L2	LED	58	120	WALL	Note #3	
P	LITHONIA	MDPB BZ DMCN BZ	LED	9.5	120	PENDANT		
S	LEVITON	9864-LED	LED	8.7	120	SURFACE		
W	NICOR	OWCR4D 5000K	LED	22	120	WALL	Note #5	
W2	BROWNLEE	BZ-C24-30K-BLD-ES	LED	23	120	WALL		
X2	LITHONIA	LHQM LED R HO	LED	5	120	WALL/CEILING		
X3	LITHONIA	LHQM LED R	LED	5	120	WALL/CEILING		
X2R	LITHONIA	ELA B TQWP L0309	LED	3	9.6	WALL/CEILING		

Notes:  
1. Provide compatible dimmer switch.  
2. Provide with bi level dimming. Program 100% occupied, after unoccupied time delay dim to 20% until occupied again.  
3. Provide with high/low occ sensor. Provide one adjustment tool FSR100 to owner.  
4. Provide an unswitched circuit for the battery charger.  
5. Low dimming set to 10% after 10 minutes of unoccupied time.

MULTIFAMILY DWELLING UNIT -
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1a ONE LINE DIAGRAM - METER BANK  
SCALE: NTS

1b VOLTAGE DROP CHART  
SCALE: NTS

1c CONDUIT AND WIRE SCHEDULE  
SCALE: NTS

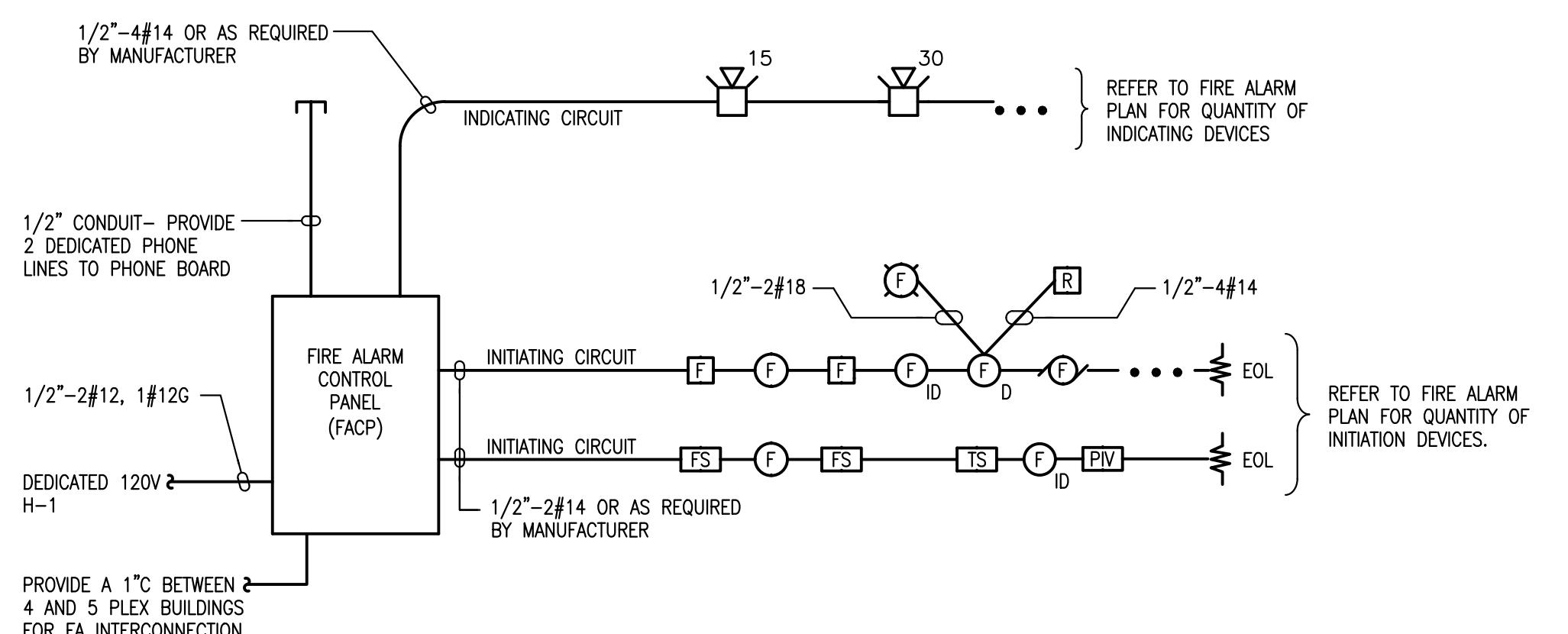
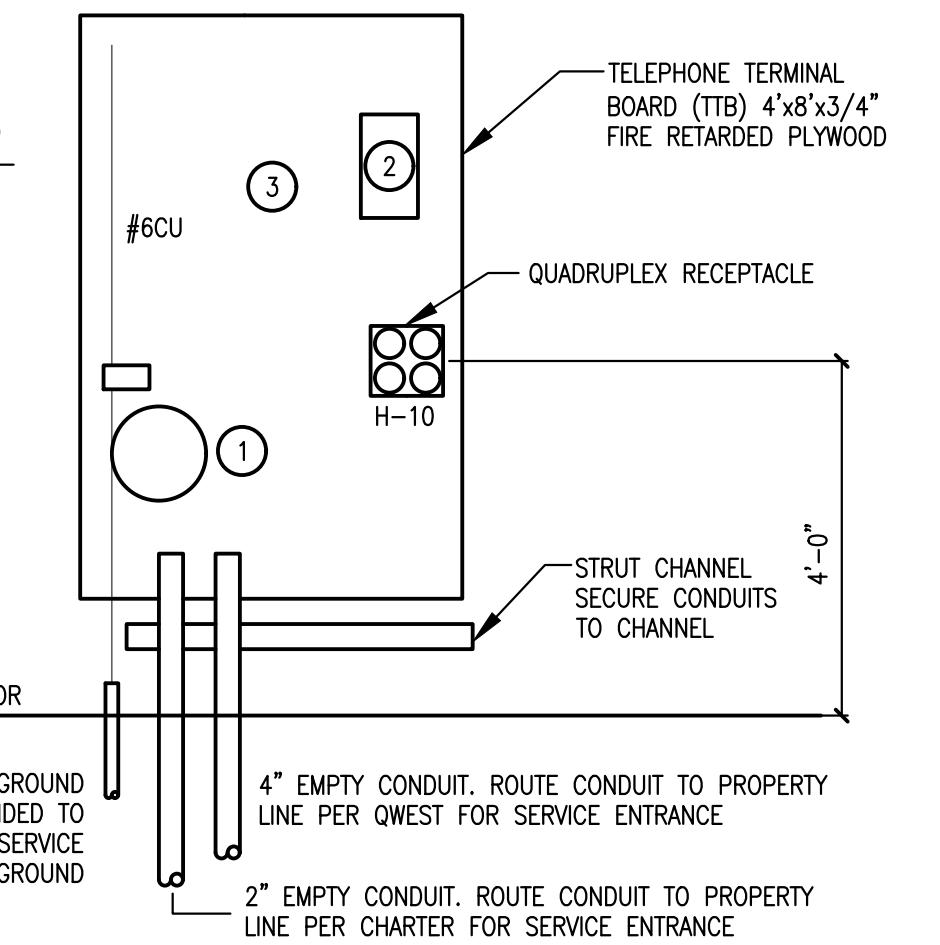
CONDUIT AND WIRE SCHEDULE					
FEEDER #	CONDUIT	PHASE	NEUTRAL	GROUND	NOTES
1	(3) 2-1/2"	#250	#250		1
2	1 1/2"	#1/0	#1/0	#4	1
NOTES:					
1. ALUMINUM CONDUCTORS					
2. HOUSE PANEL NEUTRAL #1/0.					
ALUMINUM CONDUCTORS ARE AN ACCEPTABLE SUBSTITUTE PROVIDING ADJUSTMENTS ARE MADE TO CONDUIT AND WIRE SIZE ALLOWING FOR VOLTAGE DROP AS PER NEC. PROVIDE CALCULATIONS TO ENGINEER OF RECORD FOR PRIOR APPROVAL.					

ELECTRICAL RISER DIAGRAM KEYED NOTES:

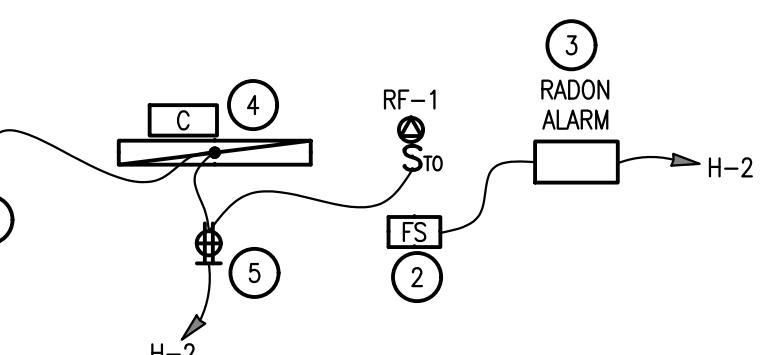
- 01 SECONDARY WIRE AND CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR. COORDINATE WITH UTILITY.
- 02 PROVIDE AND INSTALL #4 AWG COPPER GROUND TO CONCRETE ENCASED ELECTRODE IN ACCORDANCE WITH NEC 250.52.3 AND 4/0 CU TO COLD WATER PIPE IN ACCORDANCE WITH NEC 250.53.3.
- 03 TRANSFORMER PAD BY THE ELECTRICAL CONTRACTOR COORDINATE W/ UTILITY. GROUND AND BOND ACCORDING TO NEC 250.
- 04 ALL AL CONDUCTORS U.N.O. NO ALUMINUM CONDUCTORS SMALLER THAN #2/0 AWG SHALL BE USED FOR WIRING OF SERVICES. ALUMINUM SHALL NOT BE ALLOWED FOR THE HOUSE PANEL.
- 05 PROVIDE AND INSTALL (2) 5/8"X 8' CU CLAD GROUND RODS INSTALLED 6' APART CONNECTED W/ A #6 CU.
- 06 TYPICAL UNIT FEEDER. NOTE: NEUTRAL REDUCTION NOT ALLOWED NEC ART 220.61.C. 2" C, 3-#2/0, 1-#4 GND AL. TYPE SER CABLE ACCEPTABLE WHERE APPROVED BY THE NEC AND AHJ. SEE VOLTAGE DROP TABLE 1a/E5.0.
- 07 FAULT CURRENT RATING: FULLY RATE SYSTEM OR PROVIDE SERIES RATING WITH DOCUMENTATION. CONFIRM AVAILABLE FAULT CURRENT WITH UTILITY.
- 08 CONTRACTOR TO PROVIDE ALL TRENCHING, COORDINATE WITH UTILITY FOR REQUIREMENTS.
- 09 SERVICE BOND 1/0 CU.
- 10 ROUTE CAPPED 2" CONDUIT FROM SERVICE LOCATION TO UNDER ROOFTOP FOR FUTURE SOLAR PROVISION. CONSULT WITH ARCHITECT FOR CONDUIT STUB LOCATION.

GENERAL NOTES

- COORDINATE ALL WORK AND EQUIPMENT WITH UTILITY. INSTALL EQUIPMENT TO UTILITY SPECIFICATIONS. OBTAIN GEAR APPROVAL BEFORE ORDERING ANY EQUIPMENT.
- FULLY RATE OR FACTORY SERIES RATE.
- ALUMINUM CAN BE SUBSTITUTED PROVIDED WIRE AND CONDUIT SIZE IS ADJUSTED AND VOLTAGE DROP IS CONSIDERED.
- VERIFY AVAILABLE FAULT CURRENT WITH UTILITY. GET UTILITY APPROVAL ON ELECTRICAL SERVICE GEAR BEFORE ORDERING.



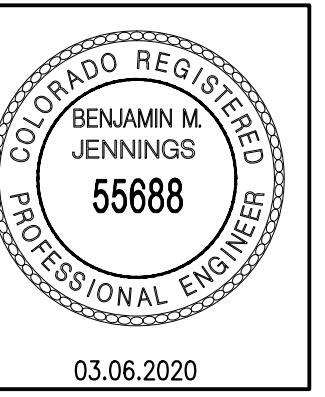
3 FIRE ALARM SYSTEM RISER DIAGRAM  
SCALE: NTS



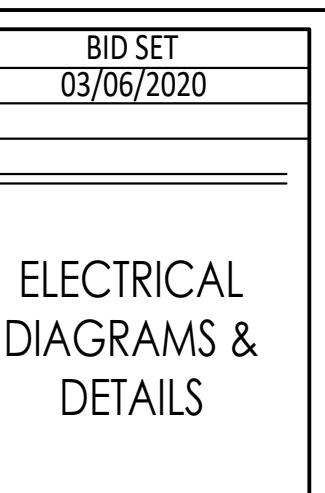
KEYNOTES

- LOCATE LIGHT SWITCH ADJACENT TO ATTIC SPACE ACCESS. COORDINATE WITH ARCHITECT.
- FLOW SWITCH ON RADON FAN.
- RADON ALARM PROVISION LOCATION. LOCATE IN MECHANICAL ROOM.
- LIGHT IN ATTIC SPACE NEAR RADON FAN LOCATION.
- MOUNT RECEPTACLE IN ATTIC SPACE WITHIN 10' OF PROPOSED RADON FAN LOCATION. COORDINATE WITH ARCHITECT.

NOT FOR CONSTRUCTION

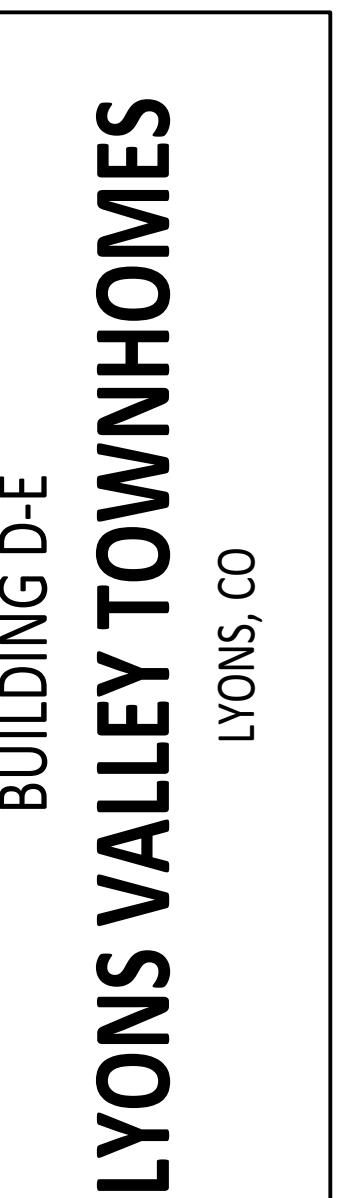
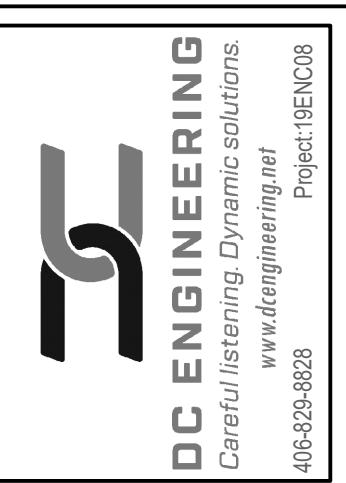
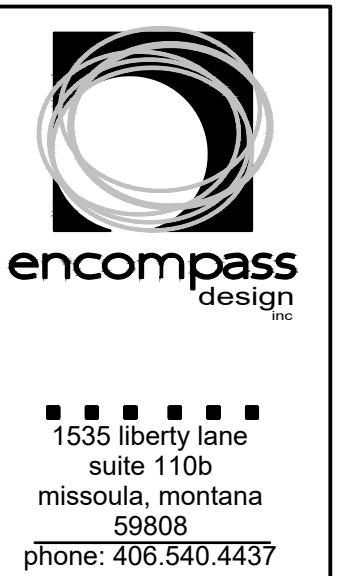
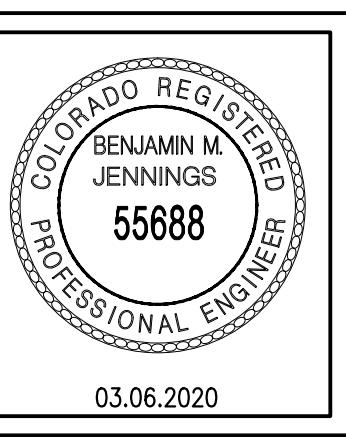


BUILDING C  
LYONS, CO  
LYONS VALLEY TOWNHOMES



EDI Job #: 18.121

E5.0



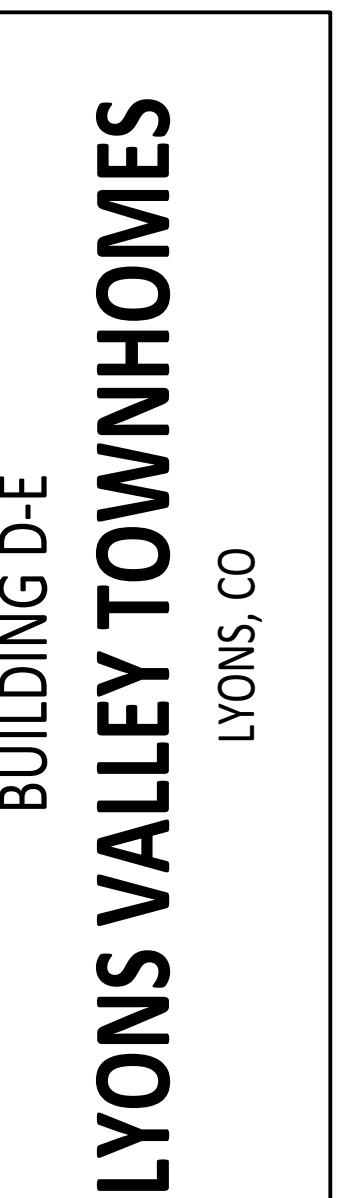
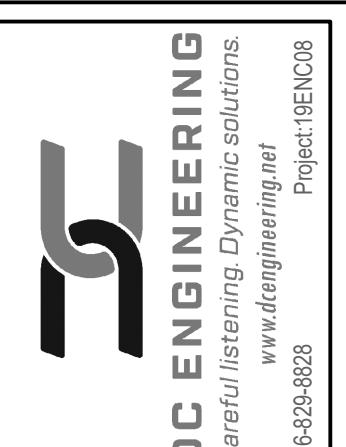
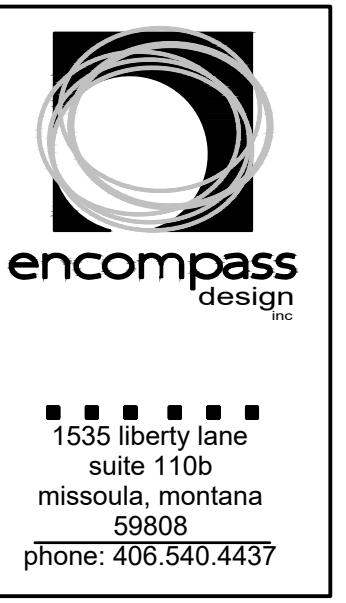
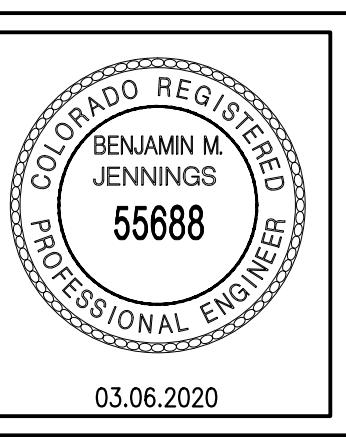
NOT FOR CONSTRUCTION

PANELBOARD SCHEDULE																	
PANEL: A (MULTI-FAM UNITS)		PROJECT: Lyons															
VOLTAGE: 240/120V		PHASE: 1		WIRE: 3		AMPERE RATING: 125		SC RATING: 10,000		MAIN: MLO							
ENTRY: TOP/BOTTOM MOUNTING: SURFACE																	
LOADS: Amps VA LOAD TYPES: 1 = LIGHTING 2 = RECEPTACLES 3 = MISC 4 = MOTOR																	
PHASE A: 0 0 1 = LIGHTING PROVIDE A FC/GFCI PROTECTION WHERE REQUIRED BY CODE EVEN IF NOT SHOWN ON PLANS																	
PHASE B: 0 0 2 = RECEPTACLES * AFCI CIRCUIT BREAKER																	
TOTAL: 0 0 3 = MISC ** AFCI/GFCI COMBO BREAKER																	
4 = MOTOR *** PROVIDE PERMANENTLY MOUNTED CIRCUIT BREAKER LOCK-OFF DEVICE																	
LOAD (VA)	LOAD SERVED	LOAD TYPE	AMPS/ POLES	CKT NO	CKT PHASE	AMPS/ POLES	LOAD TYPE	LOAD SERVED	LOAD (VA)								
* RECEPT LIVING ROOM	1 2 20 1 1	A	2 20 1	2	* RECEPT. REFRIG												
RECEPT. BATHROOM	2 20 1 3	B	4 20 1	2	** RECEPT. KITCHEN												
RANGE	2 50 2 5	A	6 20 1	2	** RECEPT. KITCHEN												
RANGE	2 * * 7	B	8 20 1	2	** DISHWASHER												
** RECEPT. HOOD MICRO	2 20 1 9	A	10 20 1	1	* LIGHTING/SMOKE DETECTORS												
* RECEPT. BED ROOM 1	2 20 1 11	B	12 20 1	1	2 * WASHER												
* RECEPT. BED ROOM 2	2 20 1 13	A	14 20 1	2	** WASHER												
CARPORT RECEPT.	2 20 1 15	B	16 30 2	2	DRYER												
GARAGE DISPOSAL	2 20 1 17	A	18 * * 2	2	DRYER												
SPARE	20 1 19	B	20 30 2	3	***WATER HEATER												
CU	4 25 2 21	A	22 * * 3	3	***WATER HEATER												
CU	4 * * 23	B	24 15 1	4	FURNACE												

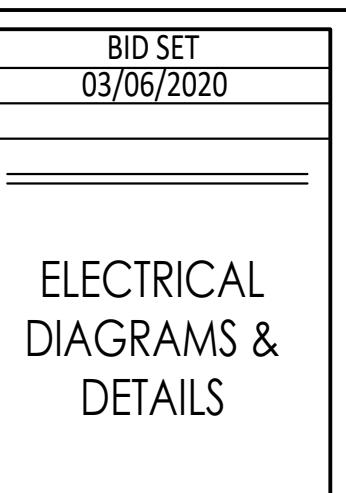
DWELLING UNIT OPTIONAL CALCULATION NEC 220.82						
SQUARE FOOTAGE						
2BR	850	2				
GEN. LIGHTING	850	3	2550			
SMALL APPL.			3000			
RANGE			10000			
WASHER			1500			
DRYER			5000			
WATER HEATER			4500			
FURNACE			900			
SUB TOTAL			27450			
1ST 10KW			10000			
REM			17450			
REM X .4		0.4	6980			
1ST 10KW + .4 REM	10000		16980			
ELECTRIC AC	1	3432	3432			
TOTAL			20412			
TOTAL AMP			85.05	85.05		

PANELBOARD SCHEDULE																	
PANEL: H (Buildings A&B)		PROJECT: Lyons															
VOLTAGE: 240/120V		PHASE: 1		WIRE: 3		AMPERE RATING: 225		SC RATING: 22,000		MAIN: MLO							
ENTRY: TOP/BOTTOM MOUNTING: SURFACE																	
LOADS: Amps VA LOAD TYPES: 1 = LIGHTING 2 = RECEPTACLES 3 = MISC 4 = MOTOR																	
PHASE A: 75 8983 1 = LIGHTING PANELBOARD, COPPER BUSSES, BOLT ON BREAKERS, DOOR-IN-DOOR																	
PHASE B: 81 9673 2 = RECEPTACLES * GFCI CIRCUIT BREAKER																	
TOTAL: 78 18656 3 = MISC ***ONLY FOR BUILDING A																	
LOAD (VA)	LOAD SERVED	LOAD TYPE	AMPS/ POLES	CKT NO	CKT PHASE	AMPS/ POLES	LOAD TYPE	LOAD SERVED	LOAD (VA)								
200 FACP	3 20 1 1	A	2 20 1	3	RADON FAN				500								
875 EBB-1 CORRIDOR	3 20 2 3	B	4 20 1	2	OUTDOOR RECEPTACLES				1080								
875 EBB-1 CORRIDOR	3 * * 5	A	6 20 1	2	MECHANICAL ROOM RECEPTS.				360								
500 EWH-1	3 20 2 7	B	8 20 1	2	ERV-1				42								
500 EWH-1	3 * * 9	A	10 20 1	2	TTB RECEPT.				360								
384 BUILDING COMMON LIGHTING	1 20 1 11	B	12 20 *	2	**ROAD LIGHTING BUILDINGS A THRU E				106								
180 CORRIDOR RECEPTS.	1 20 1 13	A	14 *	2	**ROAD LIGHTING BUILDINGS A THRU E				106								
200 EF-2	4 20 1 15	B	16 20 *	2	**ROAD LIGHTING FOR CARTER DR.				332								
	17	A	18 * *	2	**ROAD LIGHTING FOR CARTER DR.				332								
1140 **DSO-1/DSI-1	3 15 2 19	B	20 20 1	2	**OFFICE RECEPTS.				720								
1140 **DSO-1/DSI-1	3 * * 21	A	22														
44 **OFFICE EF-2s	3 20 1 23	B	24														
180 **RESTROOM RECEPTS.	2 20 1 25	A	26														
3250 **OFFICE WH-2	3 35 2 27	B	28														
3250 **OFFICE WH-2	3 * * 29	A	30														
1000 **EBB-2 OFFICE	3 20 2 31	B	32														
1000 **EBB-2 OFFICE	3 * * 33	A	34														
	35	B	36														
	37	A	38														
	39	B	40														
	41	A	42														
FUTURE PV BREAKER SPACE																	
FUTURE PV BREAKER SPACE																	

MULTIFAMILY DWELLING UNIT - OPTIONAL CALCULATION						
SQUARE FOOTAGE						
BLDG. D,E SERVICE	4000	4				
GEN. LIGHTING	4000	3	12000			
SMALL APPL.	4	3000	12000			
RANGE	4	10000	40000			
FURNACE	4	900	3600			
WASHER	4	1500	6000			
DRYER	4	5000	20000			

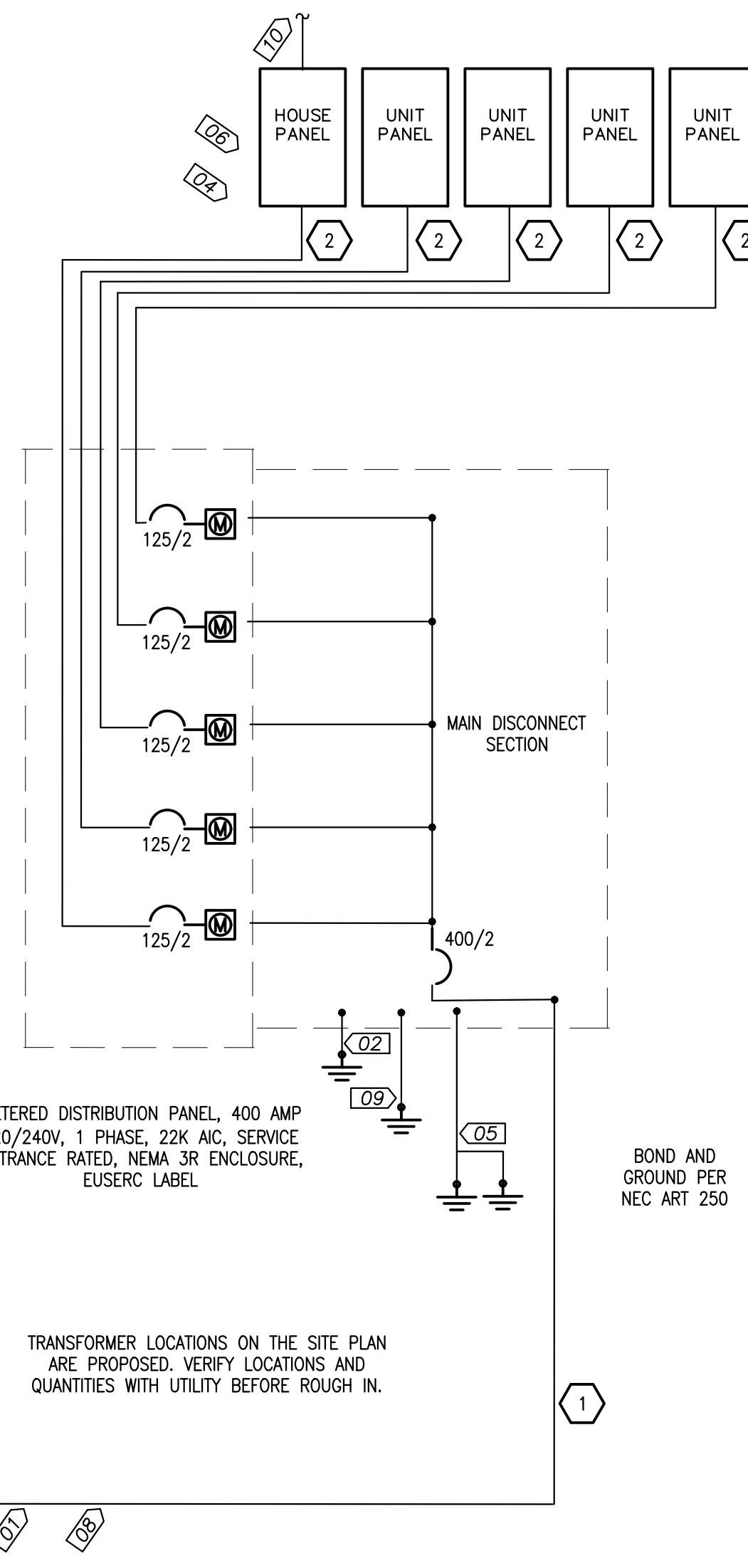


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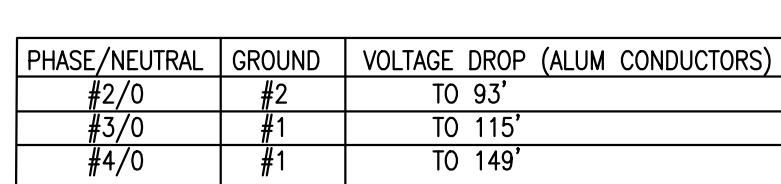
EDI Job #: 18.121

E5.0



**1a ONE LINE DIAGRAM - METER BANK**

SCALE: NTS



**1b VOLTAGE DROP CHART**

SCALE: NTS

**1c CONDUIT AND WIRE SCHEDULE**

SCALE: NTS

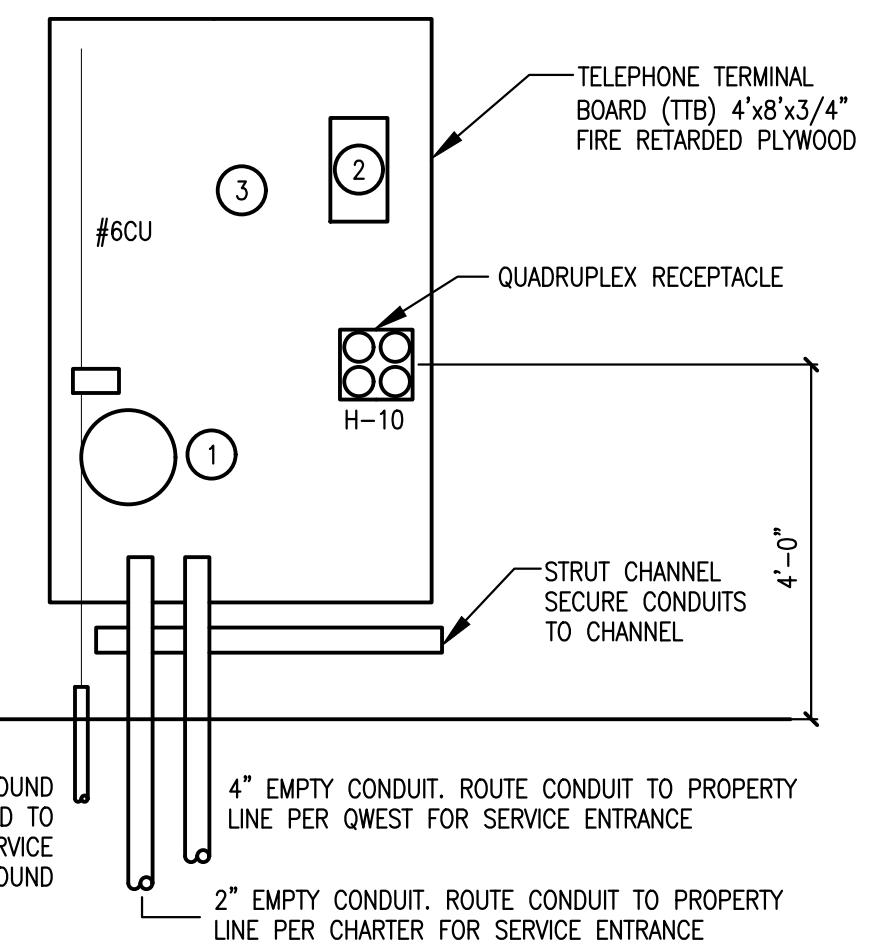
CONDUIT AND WIRE SCHEDULE					
FEEDER #	CONDUIT	PHASE	NEUTRAL	GROUND	NOTES
1	(2) 2-1/2"	#250	#250		1
2	1 1/2"	#1/0	#1/0	#4	1
NOTES:					
1. ALUMINUM CONDUCTORS					

**ELECTRICAL RISER DIAGRAM KEYED NOTES:**

- SECONDARY WIRE AND CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR. COORDINATE WITH UTILITY.
- PROVIDE AND INSTALL #4 AWG COPPER GROUND TO CONCRETE ENCASED ELECTRODE IN ACCORDANCE WITH NEC 250.52.3 AND 4/0 CU TO COLD WATER PIPE IN ACCORDANCE WITH NEC 250.53.3.
- TRANSFORMER PAD BY THE ELECTRICAL CONTRACTOR COORDINATE W/ UTILITY. GROUND AND BOND ACCORDING TO NEC 250.
- ALL AL CONDUCTORS U.N.O. NO ALUMINUM CONDUCTORS SMALLER THAN #2/0 AWG SHALL BE USED FOR WIRING OF SERVICES. ALUMINUM SHALL NOT BE ALLOWED FOR THE HOUSE PANEL.
- PROVIDE AND INSTALL (2) 5/8"X 8' CU CLAD GROUND RODS INSTALLED 6' APART CONNECTED W/ A #6 CU.
- TYPICAL UNIT FEEDER. NOTE: NEUTRAL REDUCTION NOT ALLOWED NEC ART 220.61.C. 2" C, 3-#2/0, 1-#4 GND AL. TYPE SER CABLE ACCEPTABLE WHERE APPROVED BY THE NEC AND AHJ. SEE VOLTAGE DROP TABLE 1a/ES.0
- FAULT CURRENT RATING: FULLY RATE SYSTEM OR PROVIDE SERIES RATING WITH DOCUMENTATION. CONFIRM AVAILABLE FAULT CURRENT WITH UTILITY.
- CONTRACTOR TO PROVIDE ALL TRENCHING, COORDINATE WITH UTILITY FOR REQUIREMENTS.
- SERVICE BOND #2 CU.
- ROUTE CAPPED 2" CONDUIT FROM SERVICE LOCATION TO UNDER ROOFTOP FOR FUTURE SOLAR PROVISION. CONSULT WITH ARCHITECT FOR CONDUIT STUB LOCATION.

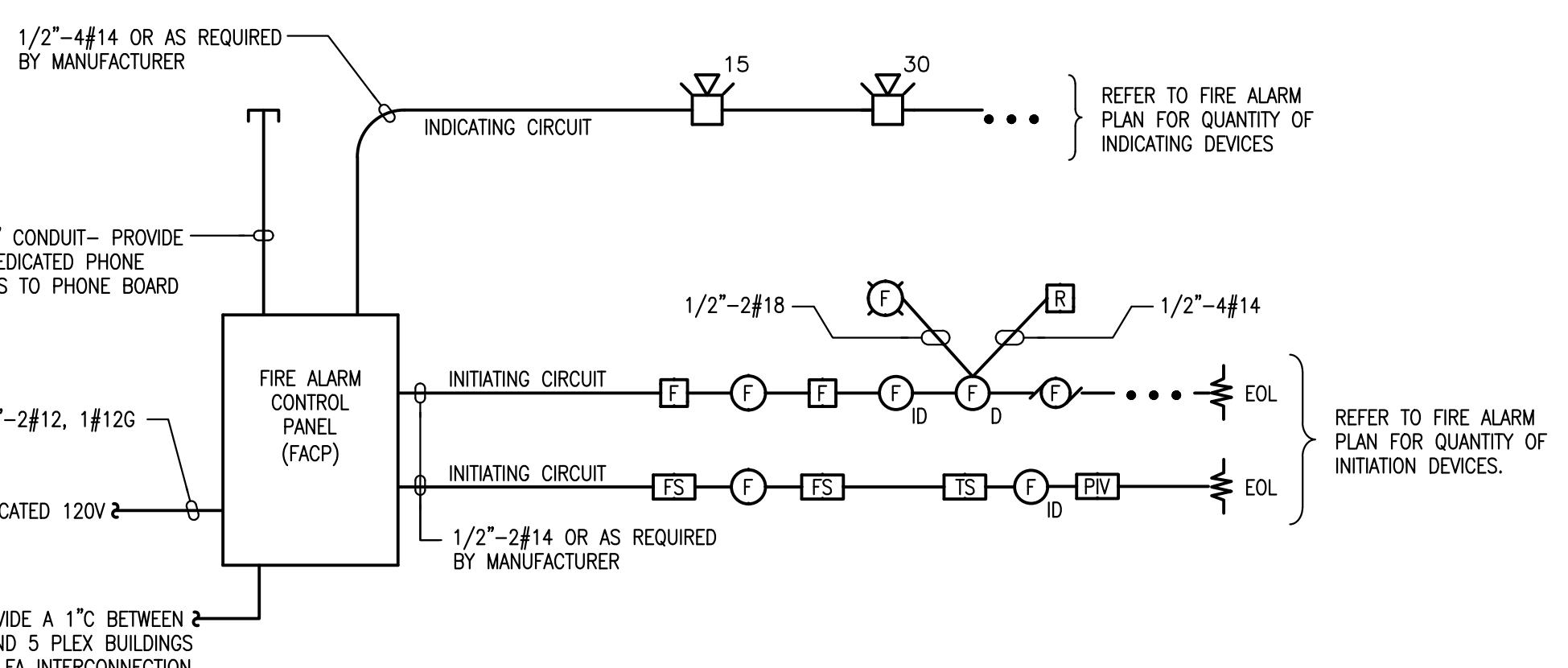
**GENERAL NOTES**

- COORDINATE ALL WORK AND EQUIPMENT WITH UTILITY. INSTALL EQUIPMENT TO UTILITY SPECIFICATIONS. OBTAIN GEAR APPROVAL BEFORE ORDERING ANY EQUIPMENT.
- FULLY RATE OR FACTORY SERIES RATE.
- ALUMINUM CAN BE SUBSTITUTED PROVIDED WIRE AND CONDUIT SIZE IS ADJUSTED AND VOLTAGE DROP IS CONSIDERED.
- VERIFY AVAILABLE FAULT CURRENT WITH UTILITY. GET UTILITY APPROVAL ON ELECTRICAL SERVICE GEAR BEFORE ORDERING.



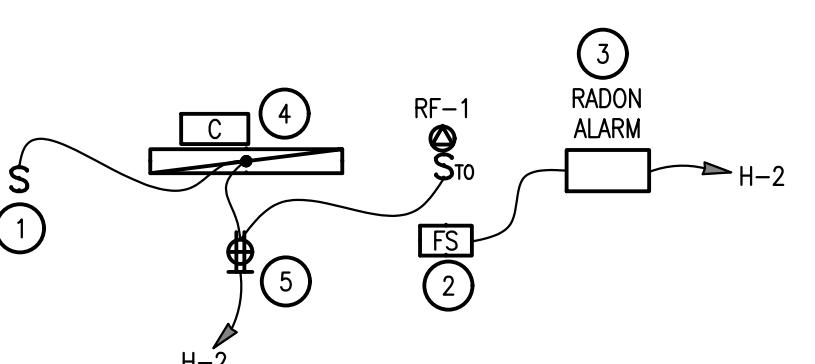
**2 TELEPHONE/CABLE TV TERMINAL BOARD**

SCALE: NTS



**3 FIRE ALARM SYSTEM RISER DIAGRAM**

SCALE: NTS



**4 RADON FAN DETAIL**

SCALE: NTS

**KEYNOTES**

- LOCATE LIGHT SWITCH ADJACENT TO ATTIC SPACE ACCESS. COORDINATE WITH ARCHITECT.
- FLOW SWITCH ON RADON FAN.
- RADON ALARM PROVISION LOCATION. LOCATE IN MECHANICAL ROOM.
- LIGHT IN ATTIC SPACE NEAR RADON FAN LOCATION.
- MOUNT RECEPTACLE IN ATTIC SPACE WITHIN 10' OF PROPOSED RADON FAN LOCATION. COORDINATE WITH ARCHITECT.



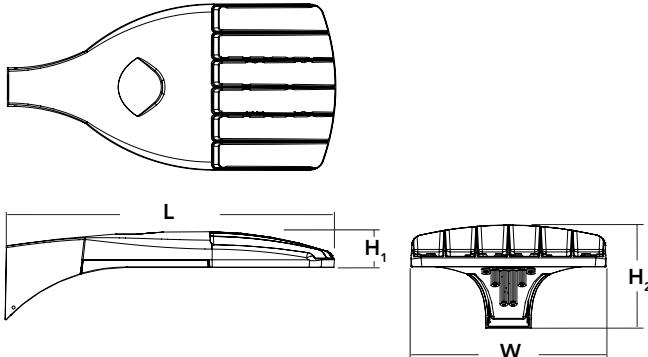
# D-Series Size 0

## LED Area Luminaire



### Specifications

EPA:	0.95 ft <sup>2</sup> (.09 m <sup>2</sup> )
Length:	26" (66.0 cm)
Width:	13" (33.0 cm)
Height <sub>1</sub> :	3" (7.62 cm)
Height <sub>2</sub> :	7" (17.8 cm)
Weight (max):	16 lbs (7.25 kg)



A+ Capable options indicated by this color background.

Catalog Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

### Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 400W metal halide with typical energy savings of 70% and expected service life of over 100,000 hours.

### Ordering Information

**EXAMPLE: DSX0 LED P6 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD**

DSX0 LED	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX0 LED	<b>Forward optics</b> P1 P4 P7 P2 P5 P3 P6 <b>Rotated optics</b> P10 <sup>1</sup> P12 <sup>1</sup> P11 <sup>1</sup> P13 <sup>1</sup>	30K 3000 K 40K 4000 K 50K 5000 K	T1S Type I short T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward throw medium T5VS Type V very short T5S Type V short T5M Type V medium T5W Type V wide BLC Backlight control <sup>2</sup> LCCO Left corner cutoff <sup>2</sup> RCCO Right corner cutoff <sup>2</sup>	MVOLT <sup>3,4</sup> 120 <sup>4</sup> 208 <sup>4</sup> 240 <sup>4</sup> 277 <sup>4</sup> 347 <sup>4,5</sup> 480 <sup>4,5</sup>	<b>Shipped included</b> SPA Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor <sup>6</sup> RPUMBA Round pole universal mounting adaptor <sup>6</sup> <b>Shipped separately</b> KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) <sup>7</sup>

Control options	Other options	Finish (required)
<b>Shipped installed</b> NLTAIR2 nLight AIR generation 2 enabled <sup>8,9</sup> PIRHN Network, high/low motion/ambient sensor <sup>10</sup> PER NEMA twist-lock receptacle only (control ordered separate) <sup>11</sup> PER5 Five-pin receptacle only (control ordered separate) <sup>11,12</sup> PER7 Seven-pin receptacle only (leads exit fixture) (control ordered separate) <sup>11,12</sup> DMG 0-10V dimming extend out back of housing for external control (control ordered separate)	<b>Shipped installed</b> PIR High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc <sup>13,14</sup> PIRH High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc <sup>13,14</sup> PIR1FC3V High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc <sup>13,14</sup> PIRH1FC3V High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc <sup>13,14</sup> FAO Field adjustable output <sup>15</sup>	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white HS House-side shield <sup>16</sup> SF Single fuse (120, 277, 347V) <sup>4</sup> DF Double fuse (208, 240, 480V) <sup>4</sup> L90 Left rotated optics <sup>1</sup> R90 Right rotated optics <sup>1</sup> DDL Diffused drop lens <sup>16</sup> <b>Shipped separately</b> BS Bird spikes <sup>17</sup> EGS External glare shield <sup>17</sup>



## Ordering Information

### Accessories

Ordered and shipped separately.

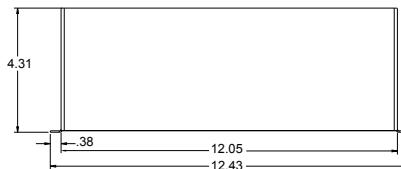
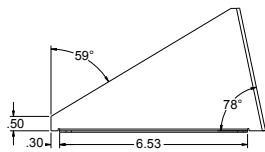
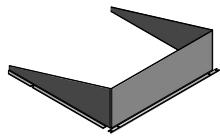
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) <sup>18</sup>
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) <sup>18</sup>
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) <sup>18</sup>
DSHORT SBK U	Shorting cap <sup>18</sup>
DSXOHS 20C U	House-side shield for P1, P2, P3 and P4 <sup>16</sup>
DSXOHS 30C U	House-side shield for P10, P11, P12 and P13 <sup>16</sup>
DSXOHS 40C U	House-side shield for P5, P6 AND P7 <sup>16</sup>
DSXODDL U	Diffused drop lens (polycarbonate) <sup>16</sup>
PUMBA DDBXD U*	Square and round pole universal mounting bracket adaptor (specify finish) <sup>19</sup>
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) <sup>6</sup>

For more control options, visit [DTL](#) and [ROAM](#) online.  
Link to [nLight Air 2](#)

### NOTES

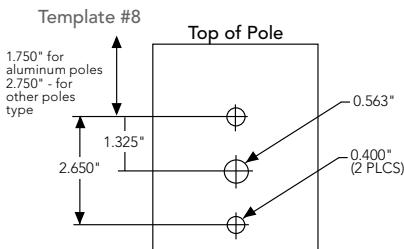
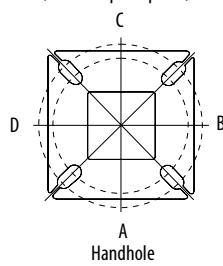
- P10, P11, P12 and P13 and rotated options (L90 or R90) only available together.
- Not available with HS or DDL.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Not available in P4, P7 or P13. Not available with BL30, BL50 or PNMT options.
- Universal mounting brackets intended for retrofit on existing pre-drilled poles only. 1.5 G vibration load rating per ANCI C136.31.
- Must order fixture with SPA mounting. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- Must be ordered with PIRHN.
- Sensor cover available only in dark bronze, black, white and natural aluminum colors.
- Must be ordered with NLTAIR2. For more information on nLight Air 2 [visit this link](#).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- If ROAM<sup>®</sup> node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
- Reference Motion Sensor table on page 3.
- Reference PER Table on page 3 to see functionality.
- Not available with other dimming control options.
- Not available with BLC, LCCO and RCCO distribution.
- Must be ordered with fixture for factory pre-drilling.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table on page 3.
- For retrofit use only.

## EGS – External Glare Shield



## Drilling

### HANDHOLE ORIENTATION (from top of pole)



### Tenon Mounting Slipfitter

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Head Location							
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
Minimum Acceptable Outside Pole Dimension							
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"		3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"		4"
RPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"

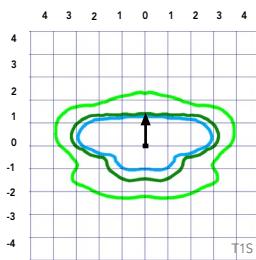
## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Area Size 0 homepage](#).

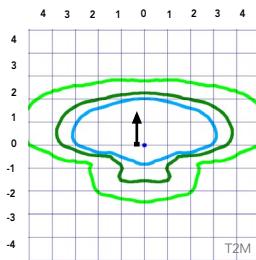
Isofootcandle plots for the DSX0 LED 40C 1000 40K. Distances are in units of mounting height (20').

### LEGEND

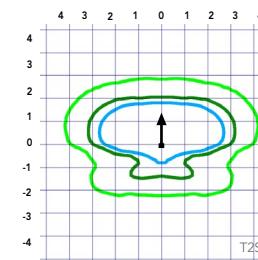
- 0.1 fc
- 0.5 fc
- 1.0 fc



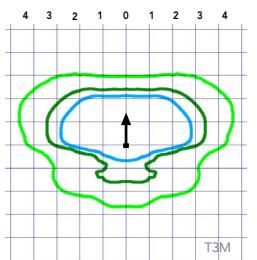
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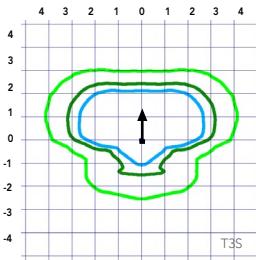
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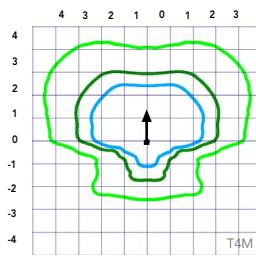
Test No. LIT23457P25 tested in accordance withIESNA LM-79-08.



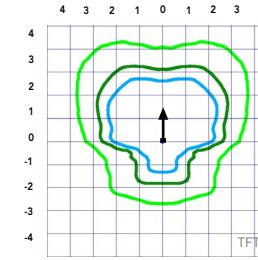
Test No. LIT23457P25 tested in accordance withIESNA LM-79-08.



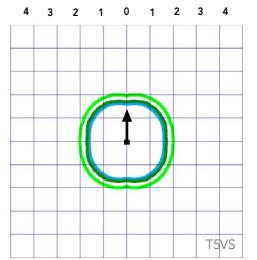
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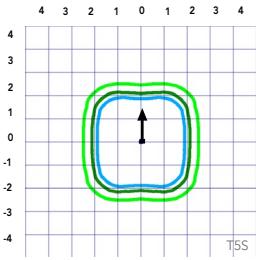
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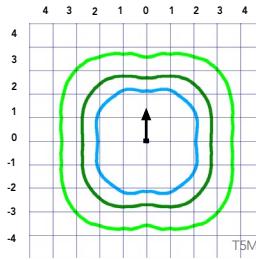
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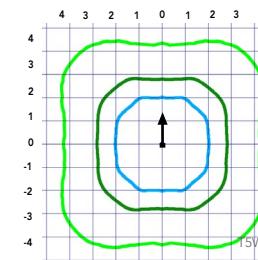
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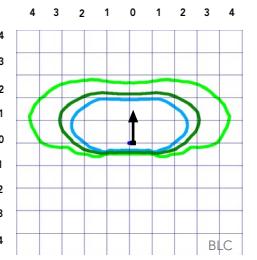
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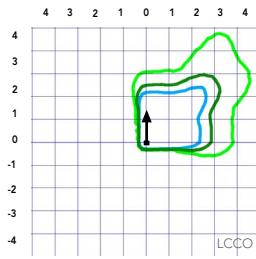
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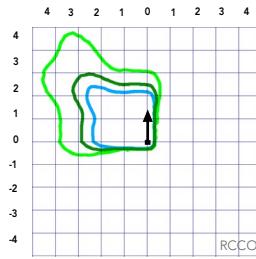
Test No. LIT23451P25 tested in accordance withIESNA LM-79-08.



Test No.



Test No.



Test No.

## Performance Data

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	50°F	1.02
20°C	68°F	1.01
<b>25°C</b>	<b>77°F</b>	<b>1.00</b>
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
25,000	0.96
50,000	0.92
100,000	0.85

Motion Sensor Default Settings						
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

\*for use with separate Dusk to Dawn or timer.

### Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire
PIR or PIRH	Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting	Luminaires dim when no occupancy is detected.	Acuity Controls SBOR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclipse.	nLight Air rSDGR	nLight AIR sensors can be programmed and commissioned from the ground using the CLAIRity Pro app.

	Performance Package	LED Count	Drive Current	Wattage	Current (A)					
					120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	20	530	38	0.32	0.18	0.15	0.15	0.10	0.08
	P2	20	700	49	0.41	0.23	0.20	0.19	0.14	0.11
	P3	20	1050	71	0.60	0.37	0.32	0.27	0.21	0.15
	P4	20	1400	92	0.77	0.45	0.39	0.35	0.28	0.20
	P5	40	700	89	0.74	0.43	0.38	0.34	0.26	0.20
	P6	40	1050	134	1.13	0.65	0.55	0.48	0.39	0.29
	P7	40	1300	166	1.38	0.80	0.69	0.60	0.50	0.37
Rotated Optics (Requires L90 or R90)	P10	30	530	53	0.45	0.26	0.23	0.21	0.16	0.12
	P11	30	700	72	0.60	0.35	0.30	0.27	0.20	0.16
	P12	30	1050	104	0.88	0.50	0.44	0.39	0.31	0.23
	P13	30	1300	128	1.08	0.62	0.54	0.48	0.37	0.27

## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

#### Forward Optics

Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)					
					Lumens		B	U	G	Lumens		B	U	G	Lumens		B	U	G	LPW
					T1S	4,369	1	0	1	115	4,706	1	0	1	124	4,766	1	0	1	125
P1	20	530	38W	38W	T2S	4,364	1	0	1	115	4,701	1	0	1	124	4,761	1	0	1	125
					T2M	4,387	1	0	1	115	4,726	1	0	1	124	4,785	1	0	1	126
					T3S	4,248	1	0	1	112	4,577	1	0	1	120	4,634	1	0	1	122
					T3M	4,376	1	0	1	115	4,714	1	0	1	124	4,774	1	0	1	126
					T4M	4,281	1	0	1	113	4,612	1	0	2	121	4,670	1	0	2	123
					TFTM	4,373	1	0	1	115	4,711	1	0	2	124	4,771	1	0	2	126
					T5VS	4,548	2	0	0	120	4,900	2	0	0	129	4,962	2	0	0	131
					T5S	4,552	2	0	0	120	4,904	2	0	0	129	4,966	2	0	0	131
					T5M	4,541	3	0	1	120	4,891	3	0	1	129	4,953	3	0	1	130
					T5W	4,576	3	0	2	120	4,929	3	0	2	130	4,992	3	0	2	131
					BLC	3,586	1	0	1	94	3,863	1	0	1	102	3,912	1	0	1	103
					LCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77
					RCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77
P2	20	700	49W	49W	T1S	5,570	1	0	1	114	6,001	1	0	1	122	6,077	2	0	2	124
					T2S	5,564	1	0	2	114	5,994	1	0	2	122	6,070	2	0	2	124
					T2M	5,593	1	0	1	114	6,025	1	0	1	123	6,102	1	0	1	125
					T3S	5,417	1	0	2	111	5,835	1	0	2	119	5,909	2	0	2	121
					T3M	5,580	1	0	2	114	6,011	1	0	2	123	6,087	1	0	2	124
					T4M	5,458	1	0	2	111	5,880	1	0	2	120	5,955	1	0	2	122
					TFTM	5,576	1	0	2	114	6,007	1	0	2	123	6,083	1	0	2	124
					T5VS	5,799	2	0	0	118	6,247	2	0	0	127	6,327	2	0	0	129
					T5S	5,804	2	0	0	118	6,252	2	0	0	128	6,332	2	0	1	129
					T5M	5,789	3	0	1	118	6,237	3	0	1	127	6,316	3	0	1	129
					T5W	5,834	3	0	2	119	6,285	3	0	2	128	6,364	3	0	2	130
					BLC	4,572	1	0	1	93	4,925	1	0	1	101	4,987	1	0	1	102
					LCCO	3,402	1	0	2	69	3,665	1	0	2	75	3,711	1	0	2	76
					RCCO	3,402	1	0	2	69	3,665	1	0	2	75	3,711	1	0	2	76
P3	20	1050	71W	71W	T1S	7,833	2	0	2	110	8,438	2	0	2	119	8,545	2	0	2	120
					T2S	7,825	2	0	2	110	8,429	2	0	2	119	8,536	2	0	2	120
					T2M	7,865	2	0	2	111	8,473	2	0	2	119	8,580	2	0	2	121
					T3S	7,617	2	0	2	107	8,205	2	0	2	116	8,309	2	0	2	117
					T3M	7,846	2	0	2	111	8,452	2	0	2	119	8,559	2	0	2	121
					T4M	7,675	2	0	2	108	8,269	2	0	2	116	8,373	2	0	2	118
					TFTM	7,841	2	0	2	110	8,447	2	0	2	119	8,554	2	0	2	120
					T5VS	8,155	3	0	0	115	8,785	3	0	0	124	8,896	3	0	0	125
					T5S	8,162	3	0	1	115	8,792	3	0	1	124	8,904	3	0	1	125
					T5M	8,141	3	0	2	115	8,770	3	0	2	124	8,881	3	0	2	125
					T5W	8,204	3	0	2	116	8,838	4	0	2	124	8,950	4	0	2	126
					BLC	6,429	1	0	2	91	6,926	1	0	2	98	7,013	1	0	2	99
					LCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73
					RCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73
P4	20	1400	92W	92W	T1S	9,791	2	0	2	106	10,547	2	0	2	115	10,681	2	0	2	116
					T2S	9,780	2	0	2	106	10,536	2	0	2	115	10,669	2	0	2	116
					T2M	9,831	2	0	2	107	10,590	2	0	2	115	10,724	2	0	2	117
					T3S	9,521	2	0	2	103	10,256	2	0	2	111	10,386	2	0	2	113
					T3M	9,807	2	0	2	107	10,565	2	0	2	115	10,698	2	0	2	116
					T4M	9,594	2	0	2	104	10,335	2	0	3	112	10,466	2	0	3	114
					TFTM	9,801	2	0	2	107	10,558	2	0	2	115	10,692	2	0	2	116
					T5VS	10,193	3	0	1	111	10,981	3	0	1	119	11,120	3	0	1	121
					T5S	10,201	3	0	1	111	10,990	3	0	1	119	11,129	3	0	1	121
					T5M	10,176	4	0	2	111	10,962	4	0	2	119	11,101	4	0	2	121
					T5W	10,254	4	0	3	111	11,047	4	0	3	120	11,186	4	0	3	122
					BLC	8,036	1	0	2	87	8,656	1	0	2	94	8,766	1	0	2	95
					LCCO	5,979	1	0	2	65	6,441	1	0	2	70	6,523	1	0	3	71
						5,979	1	0	2	65	6,441	1	0	2	70	6,523	1	0	3	71

## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics																			
Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P5	40	700	89W	T1S	10,831	2	0	2	122	11,668	2	0	2	131	11,816	2	0	2	133
				T2S	10,820	2	0	2	122	11,656	2	0	2	131	11,803	2	0	2	133
				T2M	10,876	2	0	2	122	11,716	2	0	2	132	11,864	2	0	2	133
				T3S	10,532	2	0	2	118	11,346	2	0	2	127	11,490	2	0	2	129
				T3M	10,849	2	0	2	122	11,687	2	0	2	131	11,835	2	0	2	133
				T4M	10,613	2	0	3	119	11,434	2	0	3	128	11,578	2	0	3	130
				TFTM	10,842	2	0	2	122	11,680	2	0	2	131	11,828	2	0	2	133
				T5VS	11,276	3	0	1	127	12,148	3	0	1	136	12,302	3	0	1	138
				T5S	11,286	3	0	1	127	12,158	3	0	1	137	12,312	3	0	1	138
				T5M	11,257	4	0	2	126	12,127	4	0	2	136	12,280	4	0	2	138
				T5W	11,344	4	0	3	127	12,221	4	0	3	137	12,375	4	0	3	139
				BLC	8,890	1	0	2	100	9,576	1	0	2	108	9,698	1	0	2	109
				LCC0	6,615	1	0	3	74	7,126	1	0	3	80	7,216	1	0	3	81
				RCC0	6,615	1	0	3	74	7,126	1	0	3	80	7,216	1	0	3	81
P6	40	1050	134W	T1S	14,805	3	0	3	110	15,949	3	0	3	119	16,151	3	0	3	121
				T2S	14,789	3	0	3	110	15,932	3	0	3	119	16,134	3	0	3	120
				T2M	14,865	3	0	3	111	16,014	3	0	3	120	16,217	3	0	3	121
				T3S	14,396	3	0	3	107	15,509	3	0	3	116	15,705	3	0	3	117
				T3M	14,829	2	0	3	111	15,975	3	0	3	119	16,177	3	0	3	121
				T4M	14,507	2	0	3	108	15,628	3	0	3	117	15,826	3	0	3	118
				TFTM	14,820	2	0	3	111	15,965	3	0	3	119	16,167	3	0	3	121
				T5VS	15,413	4	0	1	115	16,604	4	0	1	124	16,815	4	0	1	125
				T5S	15,426	3	0	1	115	16,618	4	0	1	124	16,828	4	0	1	126
				T5M	15,387	4	0	2	115	16,576	4	0	2	124	16,786	4	0	2	125
				T5W	15,506	4	0	3	116	16,704	4	0	3	125	16,915	4	0	3	126
				BLC	12,151	1	0	2	91	13,090	1	0	2	98	13,255	1	0	2	99
				LCC0	9,041	1	0	3	67	9,740	1	0	3	73	9,863	1	0	3	74
				RCC0	9,041	1	0	3	67	9,740	1	0	3	73	9,863	1	0	3	74
P7	40	1300	166W	T1S	17,023	3	0	3	103	18,338	3	0	3	110	18,570	3	0	3	112
				T2S	17,005	3	0	3	102	18,319	3	0	3	110	18,551	3	0	3	112
				T2M	17,092	3	0	3	103	18,413	3	0	3	111	18,646	3	0	3	112
				T3S	16,553	3	0	3	100	17,832	3	0	3	107	18,058	3	0	3	109
				T3M	17,051	3	0	3	103	18,369	3	0	3	111	18,601	3	0	3	112
				T4M	16,681	3	0	3	100	17,969	3	0	3	108	18,197	3	0	3	110
				TFTM	17,040	3	0	3	103	18,357	3	0	4	111	18,590	3	0	4	112
				T5VS	17,723	4	0	1	107	19,092	4	0	1	115	19,334	4	0	1	116
				T5S	17,737	4	0	2	107	19,108	4	0	2	115	19,349	4	0	2	117
				T5M	17,692	4	0	2	107	19,059	4	0	2	115	19,301	4	0	2	116
				T5W	17,829	5	0	3	107	19,207	5	0	3	116	19,450	5	0	3	117
				BLC	13,971	2	0	2	84	15,051	2	0	2	91	15,241	2	0	2	92
				LCC0	10,396	1	0	3	63	11,199	1	0	3	67	11,341	1	0	3	68
					10,396	1	0	3	63	11,199	1	0	3	67	11,341	1	0	3	68

## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

#### Rotated Optics

Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P10	30	530	53W	T1S	6,727	2	0	2	127	7,247	3	0	3	137	7,339	3	0	3	138
				T2S	6,689	3	0	3	126	7,205	3	0	3	136	7,297	3	0	3	138
				T2M	6,809	3	0	3	128	7,336	3	0	3	138	7,428	3	0	3	140
				T3S	6,585	3	0	3	124	7,094	3	0	3	134	7,183	3	0	3	136
				T3M	6,805	3	0	3	128	7,331	3	0	3	138	7,424	3	0	3	140
				T4M	6,677	3	0	3	126	7,193	3	0	3	136	7,284	3	0	3	137
				TFTM	6,850	3	0	3	129	7,379	3	0	3	139	7,472	3	0	3	141
				T5VS	6,898	3	0	0	130	7,431	3	0	0	140	7,525	3	0	0	142
				T5S	6,840	2	0	1	129	7,368	2	0	1	139	7,461	2	0	1	141
				T5M	6,838	3	0	1	129	7,366	3	0	2	139	7,460	3	0	2	141
				T5W	6,777	3	0	2	128	7,300	3	0	2	138	7,393	3	0	2	139
				BLC	5,626	2	0	2	106	6,060	2	0	2	114	6,137	2	0	2	116
				LCC0	4,018	1	0	2	76	4,328	1	0	2	82	4,383	1	0	2	83
				RCC0	4,013	3	0	3	76	4,323	3	0	3	82	4,377	3	0	3	83
P11	30	700	72W	T1S	8,594	3	0	3	119	9,258	3	0	3	129	9,376	3	0	3	130
				T2S	8,545	3	0	3	119	9,205	3	0	3	128	9,322	3	0	3	129
				T2M	8,699	3	0	3	121	9,371	3	0	3	130	9,490	3	0	3	132
				T3S	8,412	3	0	3	117	9,062	3	0	3	126	9,177	3	0	3	127
				T3M	8,694	3	0	3	121	9,366	3	0	3	130	9,484	3	0	3	132
				T4M	8,530	3	0	3	118	9,189	3	0	3	128	9,305	3	0	3	129
				TFTM	8,750	3	0	3	122	9,427	3	0	3	131	9,546	3	0	3	133
				T5VS	8,812	3	0	0	122	9,493	3	0	0	132	9,613	3	0	0	134
				T5S	8,738	3	0	1	121	9,413	3	0	1	131	9,532	3	0	1	132
				T5M	8,736	3	0	2	121	9,411	3	0	2	131	9,530	3	0	2	132
				T5W	8,657	4	0	2	120	9,326	4	0	2	130	9,444	4	0	2	131
				BLC	7,187	3	0	3	100	7,742	3	0	3	108	7,840	3	0	3	109
				LCC0	5,133	1	0	2	71	5,529	1	0	2	77	5,599	1	0	2	78
				RCC0	5,126	3	0	3	71	5,522	3	0	3	77	5,592	3	0	3	78
P12	30	1050	104W	T1S	12,149	3	0	3	117	13,088	3	0	3	126	13,253	3	0	3	127
				T2S	12,079	4	0	4	116	13,012	4	0	4	125	13,177	4	0	4	127
				T2M	12,297	3	0	3	118	13,247	3	0	3	127	13,415	3	0	3	129
				T3S	11,891	4	0	4	114	12,810	4	0	4	123	12,972	4	0	4	125
				T3M	12,290	3	0	3	118	13,239	4	0	4	127	13,407	4	0	4	129
				T4M	12,058	4	0	4	116	12,990	4	0	4	125	13,154	4	0	4	126
				TFTM	12,369	4	0	4	119	13,325	4	0	4	128	13,494	4	0	4	130
				T5VS	12,456	3	0	1	120	13,419	3	0	1	129	13,589	4	0	1	131
				T5S	12,351	3	0	1	119	13,306	3	0	1	128	13,474	3	0	1	130
				T5M	12,349	4	0	2	119	13,303	4	0	2	128	13,471	4	0	2	130
				T5W	12,238	4	0	3	118	13,183	4	0	3	127	13,350	4	0	3	128
				BLC	10,159	3	0	3	98	10,944	3	0	3	105	11,083	3	0	3	107
				LCC0	7,256	1	0	3	70	7,816	1	0	3	75	7,915	1	0	3	76
				RCC0	7,246	3	0	3	70	7,806	4	0	4	75	7,905	4	0	4	76
P13	30	1300	128W	T1S	14,438	3	0	3	113	15,554	3	0	3	122	15,751	3	0	3	123
				T2S	14,355	4	0	4	112	15,465	4	0	4	121	15,660	4	0	4	122
				T2M	14,614	3	0	3	114	15,744	4	0	4	123	15,943	4	0	4	125
				T3S	14,132	4	0	4	110	15,224	4	0	4	119	15,417	4	0	4	120
				T3M	14,606	4	0	4	114	15,735	4	0	4	123	15,934	4	0	4	124
				T4M	14,330	4	0	4	112	15,438	4	0	4	121	15,633	4	0	4	122
				TFTM	14,701	4	0	4	115	15,836	4	0	4	124	16,037	4	0	4	125
				T5VS	14,804	4	0	1	116	15,948	4	0	1	125	16,150	4	0	1	126
				T5S	14,679	3	0	1	115	15,814	3	0	1	124	16,014	3	0	1	125
				T5M	14,676	4	0	2	115	15,810	4	0	2	124	16,010	4	0	2	125
				T5W	14,544	4	0	3	114	15,668	4	0	3	122	15,866	4	0	3	124
				BLC	7919	3	0	3	62	8531	3	0	3	67	8639	3	0	3	67
				LCC0	5145	1	0	2	40	5543	1	0	2	43	5613	1	0	2	44
					5139	3	0	3	40	5536	3	0	3	43	5606	3	0	3	44

## A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability<sup>1</sup>
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background<sup>1</sup>

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

1. See ordering tree for details.

2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire.

Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)

## FEATURES & SPECIFICATIONS

### INTENDED USE

The sleek design of the D-Series Size 0 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and pedestrian areas.

### CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (0.95 ft<sup>2</sup>) for optimized pole wind loading.

### FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

### OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K or 5000 K (70 CRI) configurations. The D-Series Size 0 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

### ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

### STANDARD CONTROLS

The DSX0 LED area luminaire has a number of control options. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 30 feet.

### nLIGHT AIR CONTROLS

The DSX0 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipsy. Additional information about nLight Air can be found [here](#).

### INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 0 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 0 utilizes the AERIS™ series pole drilling pattern (template #8). Optional terminal block and NEMA photocontrol receptacle are also available.

### LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

### WARRANTY

5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/resources/terms-and-conditions](http://www.acuitybrands.com/resources/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.



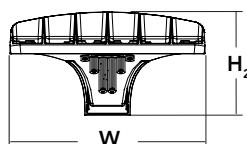
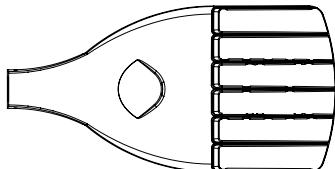
# D-Series Size 0

## LED Area Luminaire



### Specifications

EPA:	0.95 ft <sup>2</sup> (.09 m <sup>2</sup> )
Length:	26"
Width:	13"
Height <sub>1</sub> :	3"
Height <sub>2</sub> :	7"
Weight (max):	16 lbs (7.25 kg)



Catalog Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

### Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 400W metal halide with typical energy savings of 70% and expected service life of over 100,000 hours.



A+ Capable options indicated by this color background.

### Ordering Information

**EXAMPLE: DSX0 LED P6 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD**

DSX0 LED	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX0 LED	<b>Forward optics</b> P1 P4 P7 P2 P5 P3 P6 <b>Rotated optics</b> P10 <sup>1</sup> P12 <sup>1</sup> P11 <sup>1</sup> P13 <sup>1</sup>	30K 3000 K 40K 4000 K 50K 5000 K	T1S Type I short T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward throw medium T5VS Type V very short T5S Type V short T5M Type V medium T5W Type V wide BLC Backlight control <sup>2</sup> LCCO Left corner cutoff <sup>2</sup> RCCO Right corner cutoff <sup>2</sup>	MVOLT <sup>3,4</sup> 120 <sup>4</sup> 208 <sup>4</sup> 240 <sup>4</sup> 277 <sup>4</sup> 347 <sup>4,5</sup> 480 <sup>4,5</sup>	<b>Shipped included</b> SPA Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor <sup>6</sup> RPUMBA Round pole universal mounting adaptor <sup>6</sup> <b>Shipped separately</b> KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) <sup>7</sup>

Control options	Other options	Finish (required)
<b>Shipped installed</b> NLTAIR2 nLight AIR generation 2 enabled <sup>8,9</sup> PIRHN Network, high/low motion/ambient sensor <sup>10</sup> PER NEMA twist-lock receptacle only (control ordered separate) <sup>11</sup> PER5 Five-pin receptacle only (control ordered separate) <sup>11,12</sup> PER7 Seven-pin receptacle only (leads exit fixture) (control ordered separate) <sup>11,12</sup> DMG 0-10V dimming extend out back of housing for external control (control ordered separate)	<b>Shipped installed</b> PIR High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc <sup>13,14</sup> PIRH High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc <sup>13,14</sup> PIR1FC3V High/low, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc <sup>13,14</sup> PIRH1FC3V High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc <sup>13,14</sup> FAO Field adjustable output <sup>15</sup>	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white HS House-side shield <sup>16</sup> SF Single fuse (120, 277, 347V) <sup>4</sup> DF Double fuse (208, 240, 480V) <sup>4</sup> L90 Left rotated optics <sup>1</sup> R90 Right rotated optics <sup>1</sup> DDL Diffused drop lens <sup>16</sup> <b>Shipped separately</b> BS Bird spikes <sup>17</sup> EGS External glare shield <sup>17</sup>



## Ordering Information

### Accessories

Ordered and shipped separately.

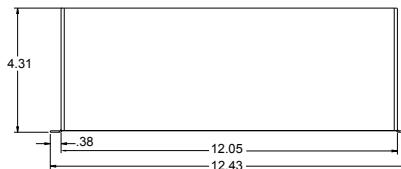
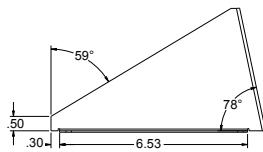
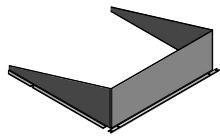
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) <sup>18</sup>
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) <sup>18</sup>
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) <sup>18</sup>
DSHORT SBK U	Shorting cap <sup>18</sup>
DSXOHS 20C U	House-side shield for P1, P2, P3 and P4 <sup>16</sup>
DSXOHS 30C U	House-side shield for P10, P11, P12 and P13 <sup>16</sup>
DSXOHS 40C U	House-side shield for P5, P6 AND P7 <sup>16</sup>
DSXODDL U	Diffused drop lens (polycarbonate) <sup>16</sup>
PUMBA DDBXD U*	Square and round pole universal mounting bracket adaptor (specify finish) <sup>19</sup>
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) <sup>6</sup>

For more control options, visit [DTL](#) and [ROAM](#) online.  
Link to [nLight Air 2](#)

### NOTES

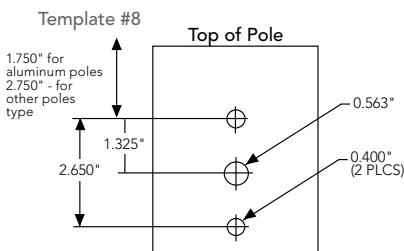
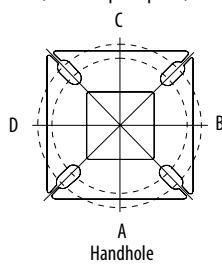
- P10, P11, P12 and P13 and rotated options (L90 or R90) only available together.
- Not available with HS or DDL.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Not available in P4, P7 or P13. Not available with BL30, BL50 or PNMT options.
- Universal mounting brackets intended for retrofit on existing pre-drilled poles only. 1.5 G vibration load rating per ANCI C136.31.
- Must order fixture with SPA mounting. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- Must be ordered with PIRHN.
- Sensor cover available only in dark bronze, black, white and natural aluminum colors.
- Must be ordered with NLTAIR2. For more information on nLight Air 2 [visit this link](#).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- If ROAM<sup>®</sup> node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
- Reference Motion Sensor table on page 3.
- Reference PER Table on page 3 to see functionality.
- Not available with other dimming control options.
- Not available with BLC, LCCO and RCCO distribution.
- Must be ordered with fixture for factory pre-drilling.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table on page 3.
- For retrofit use only.

## EGS – External Glare Shield



## Drilling

### HANDHOLE ORIENTATION (from top of pole)



### Tenon Mounting Slipfitter

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
Minimum Acceptable Outside Pole Dimension							
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"		3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"		4"
RPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"

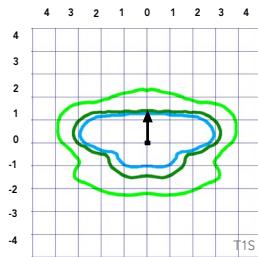
## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Area Size 0 homepage](#).

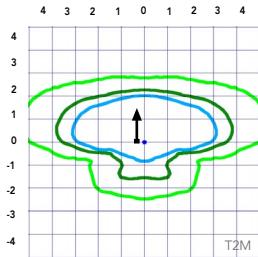
Isofootcandle plots for the DSX0 LED 40C 1000 40K. Distances are in units of mounting height (20').

### LEGEND

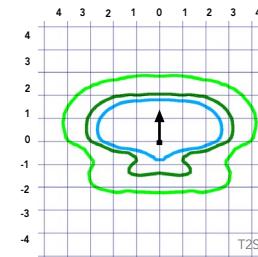
- 0.1 fc
- 0.5 fc
- 1.0 fc



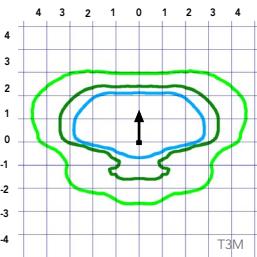
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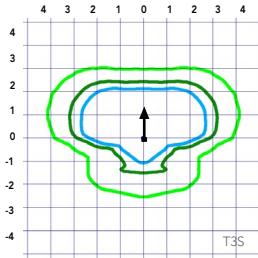
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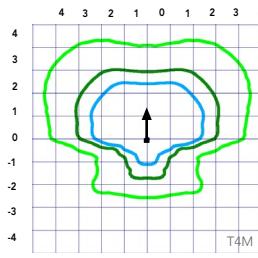
Test No. LIT23457P25 tested in accordance withIESNA LM-79-08.



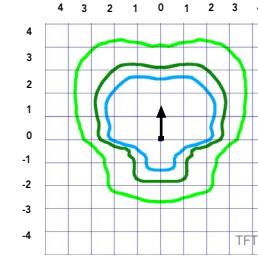
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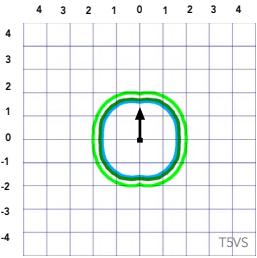
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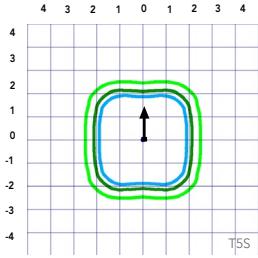
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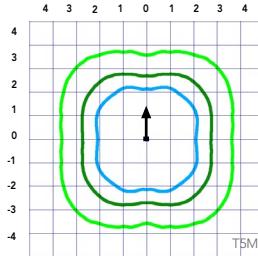
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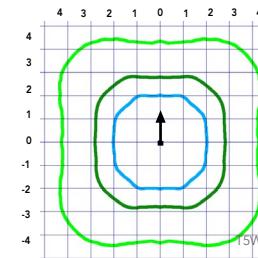
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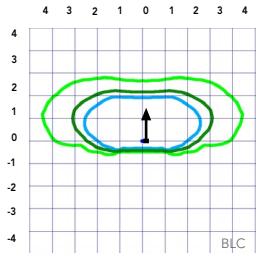
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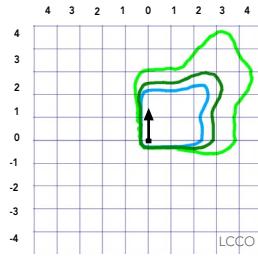
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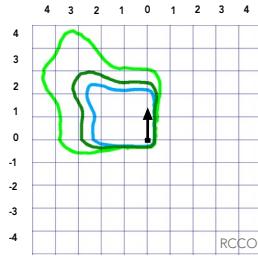
Test No. LIT23451P25 tested in accordance withIESNA LM-79-08.



Test No.



Test No.



Test No.

## Performance Data

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	50°F	1.02
20°C	68°F	1.01
<b>25°C</b>	<b>77°F</b>	<b>1.00</b>
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
25,000	0.96
50,000	0.92
100,000	0.85

Motion Sensor Default Settings						
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

\*for use with separate Dusk to Dawn or timer.

### Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire
PIR or PIRH	Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting	Luminaires dim when no occupancy is detected.	Acuity Controls SBOR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclipse.	nLight Air rSDGR	nLight AIR sensors can be programmed and commissioned from the ground using the CLAIRity Pro app.

	Performance Package	LED Count	Drive Current	Wattage	Current (A)					
					120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	20	530	38	0.32	0.18	0.15	0.15	0.10	0.08
	P2	20	700	49	0.41	0.23	0.20	0.19	0.14	0.11
	P3	20	1050	71	0.60	0.37	0.32	0.27	0.21	0.15
	P4	20	1400	92	0.77	0.45	0.39	0.35	0.28	0.20
	P5	40	700	89	0.74	0.43	0.38	0.34	0.26	0.20
	P6	40	1050	134	1.13	0.65	0.55	0.48	0.39	0.29
	P7	40	1300	166	1.38	0.80	0.69	0.60	0.50	0.37
Rotated Optics (Requires L90 or R90)	P10	30	530	53	0.45	0.26	0.23	0.21	0.16	0.12
	P11	30	700	72	0.60	0.35	0.30	0.27	0.20	0.16
	P12	30	1050	104	0.88	0.50	0.44	0.39	0.31	0.23
	P13	30	1300	128	1.08	0.62	0.54	0.48	0.37	0.27

## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

#### Forward Optics

Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)						
					Lumens		B	U	G	Lumens		B	U	G	LPW	Lumens		B	U	G	LPW
					T1S	4,369	1	0	1	115	4,706	1	0	1	124	4,766	1	0	1	125	
P1	20	530	38W	38W	T2S	4,364	1	0	1	115	4,701	1	0	1	124	4,761	1	0	1	125	
					T2M	4,387	1	0	1	115	4,726	1	0	1	124	4,785	1	0	1	126	
					T3S	4,248	1	0	1	112	4,577	1	0	1	120	4,634	1	0	1	122	
					T3M	4,376	1	0	1	115	4,714	1	0	1	124	4,774	1	0	1	126	
					T4M	4,281	1	0	1	113	4,612	1	0	2	121	4,670	1	0	2	123	
					TFTM	4,373	1	0	1	115	4,711	1	0	2	124	4,771	1	0	2	126	
					T5VS	4,548	2	0	0	120	4,900	2	0	0	129	4,962	2	0	0	131	
					T5S	4,552	2	0	0	120	4,904	2	0	0	129	4,966	2	0	0	131	
					T5M	4,541	3	0	1	120	4,891	3	0	1	129	4,953	3	0	1	130	
					T5W	4,576	3	0	2	120	4,929	3	0	2	130	4,992	3	0	2	131	
					BLC	3,586	1	0	1	94	3,863	1	0	1	102	3,912	1	0	1	103	
					LCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77	
					RCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77	
P2	20	700	49W	49W	T1S	5,570	1	0	1	114	6,001	1	0	1	122	6,077	2	0	2	124	
					T2S	5,564	1	0	2	114	5,994	1	0	2	122	6,070	2	0	2	124	
					T2M	5,593	1	0	1	114	6,025	1	0	1	123	6,102	1	0	1	125	
					T3S	5,417	1	0	2	111	5,835	1	0	2	119	5,909	2	0	2	121	
					T3M	5,580	1	0	2	114	6,011	1	0	2	123	6,087	1	0	2	124	
					T4M	5,458	1	0	2	111	5,880	1	0	2	120	5,955	1	0	2	122	
					TFTM	5,576	1	0	2	114	6,007	1	0	2	123	6,083	1	0	2	124	
					T5VS	5,799	2	0	0	118	6,247	2	0	0	127	6,327	2	0	0	129	
					T5S	5,804	2	0	0	118	6,252	2	0	0	128	6,332	2	0	1	129	
					T5M	5,789	3	0	1	118	6,237	3	0	1	127	6,316	3	0	1	129	
					T5W	5,834	3	0	2	119	6,285	3	0	2	128	6,364	3	0	2	130	
					BLC	4,572	1	0	1	93	4,925	1	0	1	101	4,987	1	0	1	102	
					LCCO	3,402	1	0	2	69	3,665	1	0	2	75	3,711	1	0	2	76	
					RCCO	3,402	1	0	2	69	3,665	1	0	2	75	3,711	1	0	2	76	
P3	20	1050	71W	71W	T1S	7,833	2	0	2	110	8,438	2	0	2	119	8,545	2	0	2	120	
					T2S	7,825	2	0	2	110	8,429	2	0	2	119	8,536	2	0	2	120	
					T2M	7,865	2	0	2	111	8,473	2	0	2	119	8,580	2	0	2	121	
					T3S	7,617	2	0	2	107	8,205	2	0	2	116	8,309	2	0	2	117	
					T3M	7,846	2	0	2	111	8,452	2	0	2	119	8,559	2	0	2	121	
					T4M	7,675	2	0	2	108	8,269	2	0	2	116	8,373	2	0	2	118	
					TFTM	7,841	2	0	2	110	8,447	2	0	2	119	8,554	2	0	2	120	
					T5VS	8,155	3	0	0	115	8,785	3	0	0	124	8,896	3	0	0	125	
					T5S	8,162	3	0	1	115	8,792	3	0	1	124	8,904	3	0	1	125	
					T5M	8,141	3	0	2	115	8,770	3	0	2	124	8,881	3	0	2	125	
					T5W	8,204	3	0	2	116	8,838	4	0	2	124	8,950	4	0	2	126	
					BLC	6,429	1	0	2	91	6,926	1	0	2	98	7,013	1	0	2	99	
					LCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73	
					RCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73	
P4	20	1400	92W	92W	T1S	9,791	2	0	2	106	10,547	2	0	2	115	10,681	2	0	2	116	
					T2S	9,780	2	0	2	106	10,536	2	0	2	115	10,669	2	0	2	116	
					T2M	9,831	2	0	2	107	10,590	2	0	2	115	10,724	2	0	2	117	
					T3S	9,521	2	0	2	103	10,256	2	0	2	111	10,386	2	0	2	113	
					T3M	9,807	2	0	2	107	10,565	2	0	2	115	10,698	2	0	2	116	
					T4M	9,594	2	0	2	104	10,335	2	0	3	112	10,466	2	0	3	114	
					TFTM	9,801	2	0	2	107	10,558	2	0	2	115	10,692	2	0	2	116	
					T5VS	10,193	3	0	1	111	10,981	3	0	1	119	11,120	3	0	1	121	
					T5S	10,201	3	0	1	111	10,990	3	0	1	119	11,129	3	0	1	121	
					T5M	10,176	4	0	2	111	10,962	4	0	2	119	11,101	4	0	2	121	
					T5W	10,254	4	0	3	111	11,047	4	0	3	120	11,186	4	0	3	122	
					BLC	8,036	1	0	2	87	8,656	1	0	2	94	8,766	1	0	2	95	
					LCCO	5,979	1	0	2	65	6,441	1	0	2	70	6,523	1	0	3	71	
						5,979	1	0	2	65	6,441	1	0	2	70	6,523	1	0	3	71	

## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics																			
Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P5	40	700	89W	T1S	10,831	2	0	2	122	11,668	2	0	2	131	11,816	2	0	2	133
				T2S	10,820	2	0	2	122	11,656	2	0	2	131	11,803	2	0	2	133
				T2M	10,876	2	0	2	122	11,716	2	0	2	132	11,864	2	0	2	133
				T3S	10,532	2	0	2	118	11,346	2	0	2	127	11,490	2	0	2	129
				T3M	10,849	2	0	2	122	11,687	2	0	2	131	11,835	2	0	2	133
				T4M	10,613	2	0	3	119	11,434	2	0	3	128	11,578	2	0	3	130
				TFTM	10,842	2	0	2	122	11,680	2	0	2	131	11,828	2	0	2	133
				T5VS	11,276	3	0	1	127	12,148	3	0	1	136	12,302	3	0	1	138
				T5S	11,286	3	0	1	127	12,158	3	0	1	137	12,312	3	0	1	138
				T5M	11,257	4	0	2	126	12,127	4	0	2	136	12,280	4	0	2	138
				T5W	11,344	4	0	3	127	12,221	4	0	3	137	12,375	4	0	3	139
				BLC	8,890	1	0	2	100	9,576	1	0	2	108	9,698	1	0	2	109
				LCC0	6,615	1	0	3	74	7,126	1	0	3	80	7,216	1	0	3	81
				RCC0	6,615	1	0	3	74	7,126	1	0	3	80	7,216	1	0	3	81
P6	40	1050	134W	T1S	14,805	3	0	3	110	15,949	3	0	3	119	16,151	3	0	3	121
				T2S	14,789	3	0	3	110	15,932	3	0	3	119	16,134	3	0	3	120
				T2M	14,865	3	0	3	111	16,014	3	0	3	120	16,217	3	0	3	121
				T3S	14,396	3	0	3	107	15,509	3	0	3	116	15,705	3	0	3	117
				T3M	14,829	2	0	3	111	15,975	3	0	3	119	16,177	3	0	3	121
				T4M	14,507	2	0	3	108	15,628	3	0	3	117	15,826	3	0	3	118
				TFTM	14,820	2	0	3	111	15,965	3	0	3	119	16,167	3	0	3	121
				T5VS	15,413	4	0	1	115	16,604	4	0	1	124	16,815	4	0	1	125
				T5S	15,426	3	0	1	115	16,618	4	0	1	124	16,828	4	0	1	126
				T5M	15,387	4	0	2	115	16,576	4	0	2	124	16,786	4	0	2	125
				T5W	15,506	4	0	3	116	16,704	4	0	3	125	16,915	4	0	3	126
				BLC	12,151	1	0	2	91	13,090	1	0	2	98	13,255	1	0	2	99
				LCC0	9,041	1	0	3	67	9,740	1	0	3	73	9,863	1	0	3	74
				RCC0	9,041	1	0	3	67	9,740	1	0	3	73	9,863	1	0	3	74
P7	40	1300	166W	T1S	17,023	3	0	3	103	18,338	3	0	3	110	18,570	3	0	3	112
				T2S	17,005	3	0	3	102	18,319	3	0	3	110	18,551	3	0	3	112
				T2M	17,092	3	0	3	103	18,413	3	0	3	111	18,646	3	0	3	112
				T3S	16,553	3	0	3	100	17,832	3	0	3	107	18,058	3	0	3	109
				T3M	17,051	3	0	3	103	18,369	3	0	3	111	18,601	3	0	3	112
				T4M	16,681	3	0	3	100	17,969	3	0	3	108	18,197	3	0	3	110
				TFTM	17,040	3	0	3	103	18,357	3	0	4	111	18,590	3	0	4	112
				T5VS	17,723	4	0	1	107	19,092	4	0	1	115	19,334	4	0	1	116
				T5S	17,737	4	0	2	107	19,108	4	0	2	115	19,349	4	0	2	117
				T5M	17,692	4	0	2	107	19,059	4	0	2	115	19,301	4	0	2	116
				T5W	17,829	5	0	3	107	19,207	5	0	3	116	19,450	5	0	3	117
				BLC	13,971	2	0	2	84	15,051	2	0	2	91	15,241	2	0	2	92
				LCC0	10,396	1	0	3	63	11,199	1	0	3	67	11,341	1	0	3	68
					10,396	1	0	3	63	11,199	1	0	3	67	11,341	1	0	3	68

## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

#### Rotated Optics

Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P10	30	530	53W	T1S	6,727	2	0	2	127	7,247	3	0	3	137	7,339	3	0	3	138
				T2S	6,689	3	0	3	126	7,205	3	0	3	136	7,297	3	0	3	138
				T2M	6,809	3	0	3	128	7,336	3	0	3	138	7,428	3	0	3	140
				T3S	6,585	3	0	3	124	7,094	3	0	3	134	7,183	3	0	3	136
				T3M	6,805	3	0	3	128	7,331	3	0	3	138	7,424	3	0	3	140
				T4M	6,677	3	0	3	126	7,193	3	0	3	136	7,284	3	0	3	137
				TFTM	6,850	3	0	3	129	7,379	3	0	3	139	7,472	3	0	3	141
				T5VS	6,898	3	0	0	130	7,431	3	0	0	140	7,525	3	0	0	142
				T5S	6,840	2	0	1	129	7,368	2	0	1	139	7,461	2	0	1	141
				T5M	6,838	3	0	1	129	7,366	3	0	2	139	7,460	3	0	2	141
				T5W	6,777	3	0	2	128	7,300	3	0	2	138	7,393	3	0	2	139
				BLC	5,626	2	0	2	106	6,060	2	0	2	114	6,137	2	0	2	116
				LCC0	4,018	1	0	2	76	4,328	1	0	2	82	4,383	1	0	2	83
				RCC0	4,013	3	0	3	76	4,323	3	0	3	82	4,377	3	0	3	83
P11	30	700	72W	T1S	8,594	3	0	3	119	9,258	3	0	3	129	9,376	3	0	3	130
				T2S	8,545	3	0	3	119	9,205	3	0	3	128	9,322	3	0	3	129
				T2M	8,699	3	0	3	121	9,371	3	0	3	130	9,490	3	0	3	132
				T3S	8,412	3	0	3	117	9,062	3	0	3	126	9,177	3	0	3	127
				T3M	8,694	3	0	3	121	9,366	3	0	3	130	9,484	3	0	3	132
				T4M	8,530	3	0	3	118	9,189	3	0	3	128	9,305	3	0	3	129
				TFTM	8,750	3	0	3	122	9,427	3	0	3	131	9,546	3	0	3	133
				T5VS	8,812	3	0	0	122	9,493	3	0	0	132	9,613	3	0	0	134
				T5S	8,738	3	0	1	121	9,413	3	0	1	131	9,532	3	0	1	132
				T5M	8,736	3	0	2	121	9,411	3	0	2	131	9,530	3	0	2	132
				T5W	8,657	4	0	2	120	9,326	4	0	2	130	9,444	4	0	2	131
				BLC	7,187	3	0	3	100	7,742	3	0	3	108	7,840	3	0	3	109
				LCC0	5,133	1	0	2	71	5,529	1	0	2	77	5,599	1	0	2	78
				RCC0	5,126	3	0	3	71	5,522	3	0	3	77	5,592	3	0	3	78
P12	30	1050	104W	T1S	12,149	3	0	3	117	13,088	3	0	3	126	13,253	3	0	3	127
				T2S	12,079	4	0	4	116	13,012	4	0	4	125	13,177	4	0	4	127
				T2M	12,297	3	0	3	118	13,247	3	0	3	127	13,415	3	0	3	129
				T3S	11,891	4	0	4	114	12,810	4	0	4	123	12,972	4	0	4	125
				T3M	12,290	3	0	3	118	13,239	4	0	4	127	13,407	4	0	4	129
				T4M	12,058	4	0	4	116	12,990	4	0	4	125	13,154	4	0	4	126
				TFTM	12,369	4	0	4	119	13,325	4	0	4	128	13,494	4	0	4	130
				T5VS	12,456	3	0	1	120	13,419	3	0	1	129	13,589	4	0	1	131
				T5S	12,351	3	0	1	119	13,306	3	0	1	128	13,474	3	0	1	130
				T5M	12,349	4	0	2	119	13,303	4	0	2	128	13,471	4	0	2	130
				T5W	12,238	4	0	3	118	13,183	4	0	3	127	13,350	4	0	3	128
				BLC	10,159	3	0	3	98	10,944	3	0	3	105	11,083	3	0	3	107
				LCC0	7,256	1	0	3	70	7,816	1	0	3	75	7,915	1	0	3	76
				RCC0	7,246	3	0	3	70	7,806	4	0	4	75	7,905	4	0	4	76
P13	30	1300	128W	T1S	14,438	3	0	3	113	15,554	3	0	3	122	15,751	3	0	3	123
				T2S	14,355	4	0	4	112	15,465	4	0	4	121	15,660	4	0	4	122
				T2M	14,614	3	0	3	114	15,744	4	0	4	123	15,943	4	0	4	125
				T3S	14,132	4	0	4	110	15,224	4	0	4	119	15,417	4	0	4	120
				T3M	14,606	4	0	4	114	15,735	4	0	4	123	15,934	4	0	4	124
				T4M	14,330	4	0	4	112	15,438	4	0	4	121	15,633	4	0	4	122
				TFTM	14,701	4	0	4	115	15,836	4	0	4	124	16,037	4	0	4	125
				T5VS	14,804	4	0	1	116	15,948	4	0	1	125	16,150	4	0	1	126
				T5S	14,679	3	0	1	115	15,814	3	0	1	124	16,014	3	0	1	125
				T5M	14,676	4	0	2	115	15,810	4	0	2	124	16,010	4	0	2	125
				T5W	14,544	4	0	3	114	15,668	4	0	3	122	15,866	4	0	3	124
				BLC	7919	3	0	3	62	8531	3	0	3	67	8639	3	0	3	67
				LCC0	5145	1	0	2	40	5543	1	0	2	43	5613	1	0	2	44
					5139	3	0	3	40	5536	3	0	3	43	5606	3	0	3	44

## A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability<sup>1</sup>
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background<sup>1</sup>

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

1. See ordering tree for details.

2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire.

Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)

## FEATURES & SPECIFICATIONS

### INTENDED USE

The sleek design of the D-Series Size 0 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and pedestrian areas.

### CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (0.95 ft<sup>2</sup>) for optimized pole wind loading.

### FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

### OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K or 5000 K (70 CRI) configurations. The D-Series Size 0 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

### ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

### STANDARD CONTROLS

The DSX0 LED area luminaire has a number of control options. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 30 feet.

### nLIGHT AIR CONTROLS

The DSX0 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipsy. Additional information about nLight Air can be found [here](#).

### INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 0 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 0 utilizes the AERIS™ series pole drilling pattern (template #8). Optional terminal block and NEMA photocontrol receptacle are also available.

### LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

### WARRANTY

5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/resources/terms-and-conditions](http://www.acuitybrands.com/resources/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.