LEDESMA & MEYER CONSTRUCTION CO., INC.
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ADDENDUM NO. 1

PROP 39 Year 4 LED LIGHTING and EXTERIOR LIGHTING REPLACEMENT
BID# AVC2017/2018-1
Project #17-016/17-017

Antelope Valley Community College District
Lancaster, CA

Ledesma & Meyer Construction Co., Inc.
9441 Haven Avenue
Rancho Cucamonga, CA 91730

NOTICE TO BIDDERS
This Addendum forms a part of the Contract and modifies the original documents dated February 23, 2017. It is intended that all work affected by the following modifications shall conform to the related provisions and general conditions of the contract of the original drawings and specifications. Modify the following items wherever appearing in any drawing or sections of the specifications. Acknowledge receipt of Addendum No. 1 in the space provided on the Bid Proposal Form. Failure to do so may subject bidder to disqualification.

1. CHANGES TO THE PROJECT MANUAL

1.1 Reference Section 00 72 00 – General Conditions
Article 4.8.1 – Approval of Substitutions or Alternates
Revise the fourteen (14) day time frame for alternate products/substitutions submission to seven (7) days.

1.2 Reference Specification 01011- Work Scope Special Conditions
Replace the Work Scope Special Conditions in its entirety with the attached Work Scope Special Conditions. Changes or additions are *italicized*.

1.3 Reference Section 01210 – Allowances
Add the following allowances under Paragraph 3.1.1.1
A. Bid Package #22 - $50,000.00

Revise Paragraph 3.1.2 to read as follows:
Cash allowances shall be "NET" cost amounts. The contractors shall include all cost associated with the processing of items that may be

charged against the designated allowance amount including estimating, project management, supervision, withholding of retention, overhead, profit and bond costs in their base bid. The only allowable markup shall be a 10% overhead and profit fee by any subcontractor that may perform work (labor) submitted under the prime contractor. The prime contractor shall receive no additional markups. If any allowance amount (in whole or part) is deleted by change order at any given point of the project, the Contractor shall credit back the full or unused portion of the allowance amount stipulated. The Category contractor shall not be entitled to withhold any monies for overhead or profit or be obligated to return any overhead or profit included within their base bid. The use of any allowances is at the sole discretion of the Construction Manager/District.

1.4 **Reference Section 01230 Alternates**

Revise item 1.6 Alternates to read as follows:

Base bid shall include all work described within the construction documents

A. DEDUCTIVE ALTERNATE #1 Administration Area – Bid Package #22 shall submit a deductive bid alternate to delete all work indicated on sheets E-101 and E-201 and Labeled as Alternate #1. Base bid shall include this work.
B. DEDUCTIVE ALTERNATE #2 Fine Arts Area – Bid Package #22 shall submit a deductive bid alternate to delete all work indicated on sheets E-101 and E-201 and Labeled as Alternate #2. Base bid shall include this work.
C. DEDUCTIVE ALTERNATE #3 Student Services & Information Area – Bid Package #22 shall submit a deductive bid alternate to delete all work indicated on sheets E-101 and E-201 and Labeled as Alternate #3. Base bid shall include this work.

1.5 **Reference Section 01631 Products and Substitutions**

Revise the **Substitution Request Submittal** paragraph to read as follows:

Substitution Request Submittal: Requests for substitution will be considered if received within 7 days after Notice of Award is issued. Requests received more than 7 days after Notice of Award is issued may be considered or rejected at the discretion of the District/Construction Manager/Electrical Engineer.

1.6 **Reference Section 00 41 00 Bid Proposal**

Item 2, Documents Accompanying Bid Proposal; add **(vii) Alternate Bid Items Proposal.**

1.7 **Reference Section 00 43 23 Alternate Bid Items Proposal**
Replace the Alternate Bid Items in its entirety with the attached Alternate Bid Items Proposal.

1.8 **Reference Section 26500 Lighting**
Revise item 2.1.A.17 to read as follows:

Any fixture substitutions must meet or exceed all specifications. Wattage shall not exceed wattages currently specified. Lumen output must meet or exceed current fixture with a photometric study provided at time of submittal. IES files will need to be provided electronically for all types specified. Must meet or exceed all BUG ratings of specified fixtures.

1.9 **Reference Section 26500 Lighting**
Revise item 2.1.B.15 to read as follows:

Any fixture substitutions must meet or exceed all specifications. Wattage shall not exceed wattages currently specified. Lumen output must meet or exceed current fixture with a photometric study provided at time of submittal. IES files will need to be provided electronically for all types specified.

1.10 **Reference Section 26500 Lighting**
Revise item 2.1.C.6 to read as follows:

Any fixture substitutions must meet or exceed all specifications. Wattage shall not exceed wattages currently specified. Lumen output must meet or exceed current fixture with a photometric study provided at time of submittal.

2. CHANGES TO THE DRAWINGS

2.1 **Reference Sheet E-001**
Replace sheet in its entirety per attached E-001.

2.2 **Reference Sheet E-100**
Replace sheet in its entirety per attached E-100.

2.3 **Reference Sheet E-101**
Replace sheet in its entirety per attached E-101.

2.4 **Reference Sheet E-102**
Replace sheet in its entirety per attached E-102.

2.5 **Reference Sheet E-200**
Replace sheet in its entirety per attached E-200.

2.6 **Reference Sheet E-201**
Replace sheet in its entirety per attached E-201.

2.7 **Reference Sheet E-202**
Replace sheet in its entirety per attached E-202.

2.8 **Reference Sheet E-300**
Replace sheet in its entirety per attached E-300.

2.9 **Reference Sheet E-400**
Replace sheet in its entirety per attached E-400

2.10 **Reference Sheet E-401**
Replace sheet in its entirety per attached E-401.
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End of Addendum 1

Attachments:
01011 – Work Scope Special Conditions
00 43 23 – Alternate Bid Items Proposal
Sheet E-001
Sheet E-100
Sheet E-101
Sheet E-102
Sheet E-200
Sheet E-201
Sheet E-202
Sheet E-300
Sheet E-400
Sheet E-401

End of Addendum 1

ALTERNATE BID ITEMS PROPOSAL

PROJECT: Prop 39 year 4 LED Lighting and Exterior Lighting Replacement

Bid Package No. _____; Bid Package Description: _____

Bidder Name: _____

Bidders must provide a proposal price for each Alternate Bid Item set forth herein; failure to do so will result in rejection of the Bid Proposal for non-responsiveness. The amount proposed for each Alternate Bid Item by the above-identified Bidder is set forth herein below:

Alternate Bid Item No. 1. Bid Package #22 shall submit a deductive bid alternate to delete all work indicated on sheets E-101 and E-201 and Labeled as Alternate #1. Base bid shall include all work indicated on the construction documents.

Bid Package No. _____; Bid Package Description: _____

Check one of the following and indicate the additive or deductive proposed price for the foregoing Alternate Bid Item.

- □ Add _____ Dollars ($_____) to Base Bid Proposal Price.
- □ Deduct _____ Dollars ($_____) from Base Bid Proposal Price.

Alternate Bid Item No. 2. Bid Package #22 shall submit a deductive bid alternate to delete all work indicated on sheets E-101 and E-201 and Labeled as Alternate #2. Base bid shall include all work indicated on the construction documents.

Bid Package No. _____; Bid Package Description: _____

Check one of the following and indicate the additive or deductive proposed price for the foregoing Alternate Bid Item.

- □ Add _____ Dollars ($_____) to Base Bid Proposal Price.
- □ Deduct _____ Dollars ($_____) from Base Bid Proposal Price.

Alternate Bid Item No. 3. Bid Package #22 shall submit a deductive bid alternate to delete all work indicated on sheets E-101 and E-201 and Labeled as Alternate #3. Base bid shall include all work indicated on the construction documents.

Bid Package No. _____; Bid Package Description: _____

Check one of the following and indicate the additive or deductive proposed price for the foregoing Alternate Bid Item.

- □ Add _____ Dollars ($_____) to Base Bid Proposal Price.
- □ Deduct _____ Dollars ($_____) from Base Bid Proposal Price.

Dated _____

By: _____
(Signature of Bidder's Authorized Officer or Representative)

_____
(Typed or Printed Name)

Title: _____

ANTELOPE VALLEY COMMUNITY COLLEGE - Prop 39 Year 4 LED Lighting and Exterior Lighting Replacement

WORK SCOPE SPECIAL CONDITIONS

ITEM:	DESCRIPTION:	Bid Package #22
1	Contractor shall not interfere with the normal, regular, or existing business operations or activities of the College at the project site. If required schedule work for after hours or weekends, all costs for working after hours or weekends shall be included within your base bid.	yes
2	Properly protect existing improvements scheduled to remain when performing work within this category.	yes
3	Properly & completely coordinate all work through the Construction Manager to ensure that all work is properly and efficiently installed per the project manual.	yes
4	All daily reports shall be turned into the Construction Manager on a daily basis.	yes
5	All deliveries and material or equipment moving between construction areas shall be coordinated and approved by the Construction Manager prior to commencement.	yes
6	Utilize suitable equipment for traversing the site, hauling or relocating of materials, and/or erection of items within this trade regardless of soils conditions, grades and existing finishes at no additional cost or delay to the schedule.	yes
7	Contractors within this category shall pay and maintain cell phone numbers for their project foreman throughout the duration of this project.	yes
8	Provide all job verification and field measuring as may be needed and/or required to ensure that the work is coordinated and fits properly.	yes
9	Repair any and all finishes damaged as a result of the execution of the work in this category.	yes
10	Provide cleanup on a daily basis to insure a clean and safe & accessible work environment.	yes
11	Contractor to provide trash containers and/or properly dispose of waste, trash, lunch trash and debris. This includes procurement of all hauling permits and/or dump fees which may be required. This applies equally to any/all subcontractors employed by the Prime Contractor.	yes
12	Be advised - the project site is located in an area of potential high winds. The protection against and prevention of wind damage to incomplete work or on-site stored materials is the responsibility of the contractor.	yes
13	Be advised - the project site is located in an area of potential high heat. The protection against and prevention of heat damage to incomplete work or on-site stored materials is the responsibility of the contractor	yes
14	The Construction Manager will set the construction working hours on site.	yes
15	Completely furnish all cutting and patching as required in all existing construction including finishes due to the installation of work of this category contractor.	yes
16	At no time will any contractor or sub contractor's drive or park on any concrete flatwork without the consent of the Construction Manager. It will be the contractor's responsibility to keep his employees, subcontractors, suppliers and company vehicles off said concrete. Any damage, tire marks or cracking found at anytime after the violation of this rule, the contractor will be held responsible for the repairs.	yes
17	Parking areas shall be designated by the Construction Manager.	yes
18	Provide all barricades, warning lights and signs & safety measures etc. required for the execution of the work within this category. A mobile/ portable plan will need to be established and agreed upon with the Construction Manager and Antelope Valley College.	yes

ITEM:	DESCRIPTION:	Bid Package #22
19	Provide adequate and proper fugitive dust control (PM10) during all operations within this contract as required be applicable codes and/or ordinances. Comply with the South Coast Air Quality Management District (SCAQMD) for the Antelope Valley area. This includes but is not limited to Machinery, vehicular or foot traffic.	yes
20	All Contractors shall be familiar and comply with the South Coast Air Quality Management District (SCAQMD) standards for the Antelope Valley area throughout the duration of the project.	yes
21	Provide all demo of the existing assemblies indicated to be demolished as per the documents and properly dispose of same offsite at a legal landfill facility.	yes
22	Provide and maintain all temporary chemical toilets and temporary had wash stations for the duration of the project. A minimum of 2 toilets and 1 hand wash station shall be provided and may be adjusted based upon the quantity of manpower present on the jobsite. Provide twice a week cleaning. Temp toilets and handwash station shall be located within the temp fence staging area within parking lot 16.	yes
23	Contractor shall verify and keep all existing systems fully operational as they execute the scope of work within this contract.	yes
24	Any shut downs of power needs to be conducted after hours so as not to disrupt regular scheduled school activities. Provide 48 hours notice through the Construction Manager.	yes
25	Provide all Best Management Practices (BMP's) as required to meet all requirements for the Regional Storm Water Pollution Prevention and local governing jurisdiction, included but not limited to concrete wash out containers, drain inlet protection, erosion control, etc.	yes
26	Contractor is responsible for all required coordination for installation, manufacturer, supplier, controls system, programming, and related items in order to ensure full operation finished product within the allotted time line.	yes
27	This *Bid Package* Contractor is the project Prime Contractor and shall be solely responsible for ALL work as required for the complete project as specified in the Project Manual, Drawings and Addenda.	yes
28	Contractor is responsible to utilize equipment that will not damage and/or mar existing conditions.	
29	Provide all demo of conduit, lights, poles, luminaires, pole foundations, conductors, wiring, switches, transformers and equipment etc. as indicated per the Contract Documents.	yes
30	Provide and install all conduit, *concrete foundations, anchor bolts,* lights, poles, luminaires, conductors, wiring, equipment, time clocks, breaker identification plates, warning signs etc. as indicated per the Contract Documents.	yes
31	Contractor is responsible to provide all necessary protective measures so as to protect the existing conditions while executing work of this contract. Any existing conditions that are damaged as a direct result of completing work of this contract will be the sole responsibility of the contractor to repair back to the existing conditions.	yes
32	Provide and install all specialty items and brackets not specifically noted to be installed but may be required in order to complete the installation and provide a complete and operable system.	yes
33	Where new poles are being provided at existing foundations, Contractor shall remove all existing grout under the existing base plates. Contractor shall install new poles and base plates on existing foundations so as a minimum of 1" non shrink grout can be installed under new base plates to the existing foundations. Contractor shall form and pour non shrink grout as aforementioned above.	yes

ITEM:	DESCRIPTION:	Bid Package #22
34	Contractor shall verify all existing anchor bolt diameters where new poles are to be mounted at existing foundations so as the new base plate mounting holes match the existing anchor bolt diameters.	yes
35	Contractor shall verify all base plate configurations where new poles are to be mounted at existing foundations so as the new base plates match existing anchor bolt configurations, patterns and sizes.	yes
36	Provide all lighting pole labeling as indicated per Detail 8 on Sheet E-400. Only poles scheduled to receive the Lumewave TOP900-TL twist lock wireless control module shall be required to be identified with the aforementioned pole labeling.	yes
37	*DELETE*	yes
38	Contractor and Contractor provided Factory Authorized Technician shall provide all installation, testing, commissioning, software/firmware, manufacturer services and software/firmware support and updates as required per the contract documents for the Colleges existing Lumewave TOP900 wireless lighting control network.	yes
39	This *Bid Package* Contractor is the project Prime Contractor and shall be solely responsible for ALL work as required for the *complete* project as specified in the Project Manual, Drawings and Addenda.	yes
40	This *Bid Package* Contractor shall provide as a direct turnover item to the Antelope Valley College Facilities Services Department, 100 lineal feet of Bird Repellent Spikes. Product shall be from Grainger, Item # 5PTU4, Manufacturer Model # STS-100, Catalog Page # 1061, UNSPSC # 10191701.	yes
41	Be advised that there are ALTERNATES as part of this project, please refer to Section 01230 Alternates.	yes
42	Be advised that there are ALLOWANCES as part of this project, please refer to Section 01210 Allowance.	yes
43	This Category Contractor shall be responsible to backfill and compact all holes resulting from the demolition of the existing light pole foundations.	yes
44	**Be advised that all Prime and Sub Contractors shall be bound to the "Community Work Force Agreement" that has been adopted by the Antelope Valley College Board of Trustees. Said Agreement establishes the labor relations guidelines and procedures for the Antelope Valley College and for the Contractors.**	yes
45	This *Bid Package* Contractor shall utilize the existing 38'x200' temp fenced staging area within parking lot 16 for all material, tools and equipment staging area. Temporary sanitation facilitates shall be located within this staging area also. Currently this temporary fenced staging area is under rental with Antelope Valley College until November 10, 2017. This category contractor shall takeover the rental for a period from November 2017 until the contract completes. This Category Contractor shall be responsible to have temporary fence removed at the end of the contract and fill all holes in the asphalt as a result of the fence post being driven in the asphalt. Contact information for the temporary fence vendor is So Cal Industries 626-422-2538 Attention Jose Muniz. Please note that this Category Contractor will be jointly sharing this staging area with contractors of another Antelope Valley College construction contract, however all costs of the fence rental shall be paid for by this category contractor.	yes
46	*This Bid Package Contractor shall be responsible to trim any tree branches/limbs that interfere with the new pole and/or luminaire installations and properly dispose of trimmings.*	*yes*

ITEM:	DESCRIPTION:	Bid Package #22
47	*This Bid Package Contractor shall provide and install all new light pole concrete foundations, rebar and base plate anchor bolts as indicated per the contract documents.*	*yes*
48	*This Bid Package Contractor shall be responsible to remove & reinstall and/or adjust existing banner/message brackets that are currently attached to certain existing light poles so as the new fixture installations is not hindered with the existing banner/message brackets.*	*yes*
49	*This Bid Package Contractor shall provide all field verification of the existing branch circuiting that currently feeds the exterior lighting scheduled to be replaced or modified so as to identify the existing voltage prior to ordering new fixtures.*	*yes*

ABBREVIATIONS

AC	ALTERNATING CURRENT
AC	AIR CONDITIONER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERES INTERRUPTING CAPACITY SYMM
A	AMPERE
AMP	AMPERE
ANN	FIRE ALARM ANNUNCIATOR
ATS	AUTOMATIC TRANSFER SWITCH
BATT	BATTERY
BLDG	BUILDING
BRKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CIR	CIRCUIT
CKT	CIRCUIT
CO	CONDUIT ONLY WITH PULLWIRE
COM	COMMON
COMM	COMMUNICATION
CONN	CONNECT
CONT	CONTINUE
CT	CURRENT TRANSFORMER
CU	COPPER
DB	DIRECT BURIED
DEF	DUAL ELEMENT FUSE
DISC	DISCONNECT
DN	DOWN
DPDT	DOUBLE-POLE DOUBLE-THROW
DPST	DOUBLE-POLE SINGLE-THROW
EM	EMERGENCY
EMER	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EOL	END OF LINE
EQUIP	EQUIPMENT
EX	EXISTING
EXIST	EXISTING
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPERES
FLEX	FLEXIBLE METALLIC TUBING
G	GROUND
GRD	GROUND
GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HOA	HAND-OFF-AUTO SWITCH
HP	HORSEPOWER
HZ	HERTZ
IC	INTERRUPTING CAPACITY IN AMPS RMS
IG	ISOLATED GROUND
J	JUNCTION BOX
JB	JUNCTION BOX
J-BOX	JUNCTION BOX
K	KILO
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT-AMPERES
KW	KILOWATT
KWH	KILOWATT-HOUR
KVAR	KILOVAR
LCL	LONG CONTINUOUS LOAD
LRA	LOCKED ROTOR AMP
LTG	LIGHTING
M	MAGNETIC STARTER COIL
M	MOTOR
M	METER
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
N	NEUTRAL
NEUT	NEUTRAL
NEC	NATIONAL ELECTRIC CODE
NF	NONFUSED
NTS	NOT TO SCALE
2P	2 POLE, SIMILAR FOR OTHER QTY
PB	PULLBOX
PNL	PANEL
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
ø PH	PHASE
SCA	SHORT CIRCUIT AMPS
SQ FT	SQUARE FEET
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TC	TIME CLOCK
TEL	TELEPHONE
TEMP	TEMPORARY
XFMR	TRANSFORMER
TFMR	TRANSFORMER
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SYSTEM
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHERPROOF
WT	WATERTIGHT

SYMBOLS

VOICE/DATA COMMUNICATION

FLOOR / CEILING / WALL

- TELEPHONE OUTLET, 1" CONDUIT TO THE CLOSEST TELEPHONE TERMINAL POINT WITHOUT INTERMEDIATE BOXES. 'W' INDICATES WALL MOUNTED @ +48".
- DATA OUTLET, 1" CONDUIT TO THE CLOSEST TELEPHONE TERMINAL POINT WITHOUT INTERMEDIATE BOXES. 'W' INDICATES WALL MOUNTED @ +48".
- TEL/DATA OUTLET, 1" CONDUIT TO THE CLOSEST TELEPHONE TERMINAL POINT WITHOUT INTERMEDIATE BOXES. 'W' INDICATES WALL MOUNTED @ +48".
- SYSTEM FURNITURE TEL / DATA FEED, REFER TO DETAILS FOR RACEWAY REQUIREMENTS
- 1" VOICE/DATA COMMUNICATION CONDUIT ONLY.
- 1¼" VOICE/DATA COMMUNICATION CONDUIT ONLY.
- 1½" VOICE/DATA COMMUNICATION CONDUIT ONLY.
- 2" VOICE/DATA COMMUNICATION CONDUIT ONLY.

LIGHTING

FLOOR / CEILING / WALL

- EXTERIOR SINGLE HEAD POLE MOUNTED FIXTURE AS INDICATED BY FIXTURE TYPE.
- EXTERIOR DOUBLE HEAD POLE MOUNTED FIXTURE AS INDICATED BY FIXTURE TYPE.
- LIGHTING STANDARD AS INDICATED BY FIXTURE TYPE.

SWITCHING

FLOOR / CEILING / WALL

- MANUAL MOTOR STARTER WITH THERMAL OVERLOAD NUMBER OF POLES AS REQUIRED
- SWITCH, +42" UON. SUBSCRIPT INDICATES:
  X=NONE – SINGLE POLE
  X=3 – THREE WAY
  X=a,b,c – OUTLET CONTROLLED
  X=2 – DOUBLE POLE
  X=PK – KEY OPERATED WITH PILOT LIGHT
  X=R – MOMENTARY RELAY ON/OFF
- 2-SINGLE POLE SWITCHES, UNDER COMMON PLATE, +42" UON.
- 3-SINGLE POLE SWITCHES, ETC, UNDER COMMON PLATE,+42" UON.
- DIMMER WITH INTEGRAL SWITCH, +42" U.O.N. '600' INDICATES RATING IN WATTS
- ROOM TYPE OCCUPANCY SENSOR, ARROW INDICATES DIRECTION, SUBSCRIPT INDICATES SWITCH LEG OR CIRCUIT TO BE CONTROLLED.
- ROOM TYPE OCCUPANCY SENSOR, ARROWS INDICATE DIRECTION, SUBSCRIPT INDICATES SWITCH LEG OR CIRCUIT TO BE CONTROLLED.

POWER

FLOOR / CEILING / WALL

- SIMPLEX RECEPTACLE, 5-20R UON
- DUPLEX RECEPTACLE, 5-20R UON
- QUADRUPLEX RECEPTACLE, 5-20R UON
- THREE PHASE RECEPTACLE
- SPECIAL RECEPTACLE, REFER TO SPECIAL RECEPTACLE SCHEDULE, THIS SHEET
- QUADRUPLEX SPECIAL RECEPTACLE, REFER TO SPECIAL RECEPTACLE SCHEDULE, THIS SHEET
- DUPLEX ISOLATED GROUND WITH DEDICATED GREEN/YELLOW CONDUCTOR BACK TO ISOLATED GROUND BUS AT PANEL. 5-20R UON.
- QUADRUPLEX ISOLATED GROUND WITH DEDICATED GREEN/YELLOW CONDUCTOR BACK TO ISOLATED GROUND BUS AT PANEL. 5-20R UON.
- CLOCK RECEPTACLE. 5-20R UON.
- JUNCTION BOX 4" SQUARE MINIMUM FOR WALL OR CEILING MOUNTED
- JUNCTION BOX SIZE AS REQUIRED FOR NUMBER OF WIRES
- SYSTEM FURNITURE POWER FEED. REFER TO DETAILS FOR ADDITIONAL INFORMATION.

NUMBER OF WIRES AND CONDUIT SIZE

3	#12,1/2"C	8	#8,1#10,1/2"C
4	#12,1/2"C	8	#8,1#10,3/4"C
5	#12,1/2"C	8	#8,1#10,1"C
6	#12,1/2"C	8	#8,1#10,1"C
7	#12,1/2"C	8	#8,1#10,1"C
8	#12,3/4"C	8	#8,1#10,1¼"C
9	#12,3/4"C	8	#8,1#10,1¼"C
10	#10,1/2"C	6	#6,1#10,3/4"C
10	#10,1/2"C	6	#6,1#10,1"C
10	#10,3/4"C	6	#6,1#10,1"C
10	#10,3/4"C	6	#6,1#10,1"C
10	#10,3/4"C	6	#6,1#10,1¼"C
10	#10,1"C	6	#6,1#10,1¼"C
10	#10,1"C	6	#6,1#10,1¼"C

NOTE: CONDUIT SIZES ARE MINIMUM. PROVIDE EQUIPMENT GROUND (NOT INDICATED IN WIRE HATCH COUNT). FOR ISOLATED GROUND DEVICES INCLUDE ADDITIONAL ISOLATED GROUND CONDUCTOR.

SPECIAL RECEPTACLE SCHEDULE

LETTER	RATING	NEMA	
A	125V,1ø,30A,2P,3W	5-30R	WITH 5-30P PLUG
B	125V,1ø,50A,2P,3W	5-50R	WITH 5-50P PLUG
C			
D	125/250V,1ø,20A,3P,4W	14-20R	WITH 14-20P PLUG
F	125/250V,1ø,30A,3P,4W	14-30R	WITH 14-30P PLUG
GF	125V,1ø,20A,2P,3W	5-20R	GROUND FAULT INTERRUPTING
H			
J	250V,1ø,20A,2P,3W	6-20R	WITH 6-20P PLUG
K	250V,1ø,30A,2P,3W	6-30R	WITH 6-30P PLUG
L			'L' INDICATES ASSOCIATED RECEPTACLE IS LOCKING TYPE, PROVIDE MATCHING PLUG FOR EACH RECEPTACLE.
M	250V,1ø,50A,2P,3W	6-50R	WITH 6-50P PLUG
N	250V,3ø,20A,3P,4W	15-20R	WITH 15-20P PLUG
P	250V,3ø,30A,3P,4W	15-30R	WITH 15-30P PLUG
R	250V,3ø,50A,3P,4W	15-50R	WITH 15-50P PLUG
S	480V,3ø,30A,3P,4W	L16-30R	WITH L12-30P PLUG
T	125V,1ø,20A,2P,3W	5-20R	ISOLATED GROUND WITH INTEGRAL TRANSIENT SUPPRESSOR AND DEDICATED GREEN/YELLOW CONDUCTOR BACK TO GROUND BUS AT PANEL

NOTE: NUMBER OF WIRES INCLUDES GROUND.

WIRING

- HOMERUN TO PANELBOARD, CABINET OR TERMINAL BOARD AS INDICATED.
- HOMERUN TO SWITCHBOARD OR MCC AS INDICATED. REFER TO SINGLE LINE FOR CONDUIT AND WIRE SIZES.
- HOMERUN TO PANEL VIA INDICATED RELAY PANEL. REFER TO RELAY SCHEDULE FOR ADDITIONAL INFORMATION.
- CONDUIT END CAP. PROVIDE MARKER TO UNDERGROUND CONDUITS
- CONDUIT DOWN
- CONDUIT UP
- CONDUIT RUN EXPOSED, PARALLEL WITH STRUCTURE
- CONDUIT RUN UNDERGROUND OR BELOW FLOOR.
- CONDUIT CONCEALED IN WALL OR CEILING.
- SURFACE WIREMOLD RACEWAY
- MULTIOUTLET RACEWAY. NUMBER IN (X) INDICATES OUTLET SPACING. WHERE MULTIPLE CIRCUITS ARE INDICATED, ALTERNATE CIRCUITS FOR OUTLETS ALONG RACEWAY.

GENERAL ELECTRICAL SYMBOLS

- DISCONNECT SWITCH, 30 AMP MINIMUM UON
- COMBINATION DISCONNECT SWITCH AND MOTOR STARTER
- MOTOR, 5HP
- TRANSFORMER
- SURFACE MOUNTED MISCELLANEOUS CABINET AS INDICATED ON PLANS
- FLUSH MOUNTED MISCELLANEOUS CABINET AS INDICATED ON PLANS
- SURFACE MOUNTED PANELBOARD
- FLUSH MOUNTED PANELBOARD
- SWITCHBOARD
- MULTIPLE COMPARTMENT FLOOR BOX
- EXISTING EQUIPMENT/RACEWAYS TO REMAIN
- EXISTING EQUIPMENT/RACEWAYS TO BE REMOVED
- NEW EQUIPMENT/RACEWAYS
- SHA — ELECTRICAL EQUIPMENT DESIGNATED 'SH1A'
- A 1 — SEE NOTE A OR 1 ON THE SAME SHEET
- F1 / 100 — LIGHTING FIXTURE DESIGNATION F1 = TYPE, 100 = FIXTURE WATTAGE
- AH / 1 — MECHANICAL EQUIPMENT DESIGNATED 'AH-1'
- 113 — EQUIPMENT NAME OR NUMBER
- +4'-6" — MOUNTING HEIGHT FROM FINISHED FLOOR TO CENTERLINE OF OUTLET OR EQUIPMENT
- MH=4'-6" — MOUNTING HEIGHT FROM FINISHED FLOOR TO BOTTOM OF OUTLET OR EQUIPMENT

SINGLE LINE DIAGRAM

- TRANSFORMER, AS NOTED ON SINGLE LINE
- LOW VOLTAGE CIRCUIT BREAKER, 3P UON
- LOW VOLTAGE CIRCUIT BREAKER WITH GROUND FAULT RELAY AND SHUNT TRIP.
- NON-FUSED DISCONNECT SWITCH, 30A,3P UON
- FUSED DISCONNECT SWITCH, 3P UON
- 52 — DRAW-OUT MEDIUM-VOLTAGE CIRCUIT BREAKER
- COMBINATION STARTER
- 2 — CONTACTOR; SIZE 2 INDICATED (SIZE-1 MIN.)
- MOTOR OVERLOAD PROTECTION
- 2 — MAGNETIC MOTOR STARTER, SIZE-2 INDICATED (SIZE-1 MIN.)
- M — DEMAND TYPE KWH METER
- M — PROVISION FOR UTILITY COMPANY KWH METER
- K — KIRK-KEY INTERLOCK BETWEEN DEVICES
- TRANSFER SWITCH NOTED ATS WHEN AUTOMATIC
- CURRENT TRANSFER, RATIO AS NOTED
- 50/51 — PROTECTIVE RELAY, FUNCTION PER ANSI STANDARD DESIGNATION
- AS — AMMETER SWITCH
- AM — AMMETER
- IQ — ELECTRONIC METER, CUTLER HAMMER IQ ANALYZER CAT. NO. IQA6430, UON.
- TS — TEST SWITCH, ABB
- SEPARABLE CONNECTOR(S)
- GROUND

GENERAL NOTES

A. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT. TOWARD THIS END FURNISH ALL LABOR AND TOOLS NECESSARY AND FURNISH AND INSTALL ALL APPARATUS, MATERIALS, AND EQUIPMENT IN A FASHION COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS REQUIRED BUT NOT NORMALLY SHOWN, SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS, CLAMPS, BOXES, CONNECTORS AND HARDWARE.

B. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SUBMITTALS, TESTING, START-UP, TRAINING AND PROJECT CLOSEOUT.

C. PROCURE ALL PERMITS FROM LEGALLY CONSTITUTED AUTHORITIES, ARRANGE FOR ALL INSPECTIONS AND PAY ALL COSTS FOR FEES AND TESTS IN CONNECTION THEREWITH.

D. ALL WORK SHALL COMPLY WITH THE 2016 CALIFORNIA ELECTRICAL CODE BASED UPON THE 2014 EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES. WHERE THE PLANS SHOW MORE RESTRICTIVE REQUIREMENTS, THE PLANS SHALL GOVERN BUT NOTHING ON THESE PLANS SHALL BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.

E. ALL ELECTRICAL EQUIPMENT SHALL BE UL APPROVED.

F. COORDINATE ROUTING OF FEEDERS AND HOMERUNS IN COOPERATION WITH OTHER TRADES TO SIMPLIFY INSTALLATION.

G. DO NOT PENETRATE STRUCTURAL ITEMS WITHOUT PRIOR APPROVAL OF STRUCTURAL ENGINEER. WHERE EXISTING STRUCTURAL WALLS, CEILING OR FLOOR ARE TO BE CORED FOR NEW CONDUIT RUNS, CONTRACTOR SHALL SCAN THE SURFACE TO AVOID CUTTING ANY STRUCTURAL ELEMENTS SUCH AS REBAR. SEPARATION BETWEEN CORED HOLES SHALL BE THREE INCHES FROM NEW OR EXISTING HOLES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

H. INSTALL EXPOSED CONDUITS PARALLEL AND AT RIGHT ANGLES TO NEARBY SURFACES AND STRUCTURAL MEMBERS.

I. ALL CONDUCTORS SHALL BE COPPER, TYPE 'THWN/THHN' 90 DEGREE INSULATION. ALL LUGS SHALL BE 75 DEGREE RATED, MINIMUM.

J. USE OF NONMETALLIC SHEATHED CABLE (NM OR NMC), ARMORED CABLE (AC) OR METAL CLAD CABLE (MC) IS NOT ALLOWED.

K. INSTALL GREEN INSULATED COPPER GROUNDING CONDUCTOR AND CONNECT TO EACH OUTLET, ENCLOSURE, DEVICE, FIXTURE, ETC. THE RACEWAYS SHALL NOT BE RELIED UPON FOR 'EQUIPMENT GROUNDING'.

L. PROVIDE BARRIER BETWEEN NORMAL AND EMERGENCY POWER WHEN INSTALLED IN THE SAME ENCLOSURE.

M. LABEL RECEPTACLES, J-BOXES, DISCONNECT SWITCHES AND CONTROL DEVICES WITH THEIR SERVING CIRCUIT NUMBERS.

N. GANG DEVICES OCCURRING IN THE SAME LOCATION. SET DEVICES NOT GANGED IN THE SAME PLATE AT THE SAME HEIGHT WITH EQUAL SPACING BETWEEN EACH PLATE.

O. PROVIDE FIRE STOPPING AT ALL CONDUIT PENETRATIONS OF CEILINGS AND RATED WALLS.

P. NO SPLICING OF FEEDERS OR BRANCH CIRCUITS SHALL BE DONE WITHOUT PRIOR APPROVAL.

Q. INSTALL WIRING AS INDICATED ON PLANS. DO NOT COMBINE HOMERUNS WITHOUT PRIOR APPROVAL.

R. ALL UNDERGROUND CONDUITS SHALL BE ENTIRELY ENCASED IN CONCRETE 3" THICK ON ALL SIDES WITH MULTIPLE CONDUITS SPACED NOT LESS THAN 24" BELOW FINISHED GRADE TO THE TOP OF CONCRETE ENVELOPE.

S. CONTRACTOR MUST EXERCISE CARE TO AVOID DAMAGE TO EXISTING LANDSCAPING AND REPAIR ANY DAMAGE IF IT OCCURS AS A RESULT OF HIS/HER WORK.

T. CONTRACTOR SHALL REMOVE ALL DEMOLISHED MATERIAL PROMPTLY AND DISPOSE OF LEGALLY OFF SITE.

U. SURFACE MOUNT CONDUIT OUTSIDE THE BUILDING SHALL BE GALVANIZED RIGID STEEL.

V. CONTRACTOR SHALL MAINTAIN ON THE JOB A SET OF PRINTS ON WHICH ALL CHANGES IN LOCATION OR RUNS SHALL BE CAREFULLY INDICATED. CONTRACTOR SHALL TRANSFER ALL FIELD CHANGES FROM THE FIELD DRAWINGS TO CAD AND DELIVER TO THE ENGINEER FOR REVIEW PRIOR TO DELIVERY TO THE OWNER AT THE CONCLUSION OF THE PROJECT.

SCOPE OF WORK

ANTELOPE VALLEY COMMUNITY COLLEGE (AVCC) INTENDS TO REPLACE EXISTING POLE MOUNTED LUMINAIRES IN MULTIPLE AREAS OF THE CAMPUS WITH NEW LIGHT EMMITING DIODE (LED) LUMINAIRES AND IN CERTAIN AREAS WITH LED RETROFIT KITS, IN CERTAIN AREAS OF THE CAMPUS, NEW POLES AND LUMINAIRES ARE TO BE PROVIDED AND INSTALLED.

PROVIDE ALL MATERIAL, LABOR, EQUIPMENT AND SUPERVISION TO PERFORM ALL WORK IN STRICT CONFORMANCE WITH CONTRACT DOCUMENTS INCLUDING DRAWINGS, APPLICABLE CODES, STANDARDS AND SPECIFICATION.

SCOPE OF WORK CONSISTS BUT IS NOT LIMITED TO THE FOLLOWING:

1. WHERE EXISTING LIGHT FIXTURES ARE INDICATED TO BE DEMOLISHED, REMOVE THE FIXTURE, ASSOCIATED POLE AND DISPOSE OFFSITE.
2. WHERE INDICATED ON THE DRAWINGS, PROVIDE AND INSTALL ALL NEW PULLBOXES TO INTERCEPT EXISTING CONDUIT.
3. WHERE INDICATED ON THE DRAWINGS PROVIDE WIRELESS CONTROL MODULES FOR THE FIXTURES.
4. WHERE ONLY THE EXISTING FIXTURE HEAD AND OR THE HEAD AND THE POLE ARE TO BE REPLACED, FIELD VERIFY BRANCH CIRCUIT(S) FEEDING EXISTING FIXTURES AND CONFIRM THAT THE VOLTAGE IS 277 VOLTS. WHERE REQUIRED MAKE ADJUSTMENTS TO CONVERT TO 277 VOLTS. INSTALL CONTRACTOR FURNISHED NEW POLE AND LUMINAIRE AS IT MAY APPLY.
5. WHERE NEW POLES ARE TO BE INSTALLED ON EXISTING FOUNDATIONS CONTRACTOR OR POLE VENDOR SHALL CONFIRM THAT THE NEW POLE BASE PLATE SHALL FIT EXISTING BOLT PATTERN AT EACH PEDESTAL BEFORE ORDERING. MANUFACTURER MAY NEED TO MODIFY PLATE BEFORE SHIPPING.
6. WHERE LED RETROFIT KITS ARE TO BE INSTALLED INSIDE EXISTING FIXTURES, INSTALLATION SHALL BE PER MANUFACTURER REQUIREMENTS. MANUFACTURER MAY ASK FOR THE REFLECTOR TO BE REMOVED FROM FIXTURE. REMOVE REFLECTOR, BUT MAINTAIN OR REINSTALL ACCENT PIECE.
7. WORK WILL BE LIMITED TO CERTAIN AREAS OF THE CAMPUS AT A TIME.
8. UPON AWARD OF CONTRACT AND FIELD VERIFICATION OF EXISTING CONDITIONS, CONTRACTOR SHALL PREPARE A DETAILED SCHEDULE OF WORK, INDICATING TIME, DURATION AND THE IMPACT OF NEW WORK AT EACH AREA OF WORK AND PRESENT IT TO THE COLLEGE FOR APPROVAL.
9. WHERE NEW FIXTURES ARE TO BE MOUNTED ON EXISTING POLES, USE APPROVED HARDWARE BY FIXTURE MANUFACTURER.
10. PROVIDE SERVICES OF AN APPROVED CONTROL SYSTEM MANUFACTURER'S AGENT TO PERFORM REQUIRED PROGRAMMING TO CONNECT NEW FIXTURES INTO EXISTING CONTROL SYSTEM.
11. TEST AND COMMISSION THE ENTIRE NEW LIGHTING SYSTEM AND ASSOCIATED WIRLESS CONTROLLER BY THE MANUFACTURER CERTIFIED AGENT.
12. TRAIN COLLEGE PERSONAL IN OPERATION AND MAINTENANCE

REV	DATE	DESCRIPTION
1	08/08/2017	ADDENDUM 1

SCALE	NONE
KSC PROJECT NO.	12326
DESIGNED BY	AK
DRAWN BY	JA
CHECKED BY	RM
DATE	02.23.17

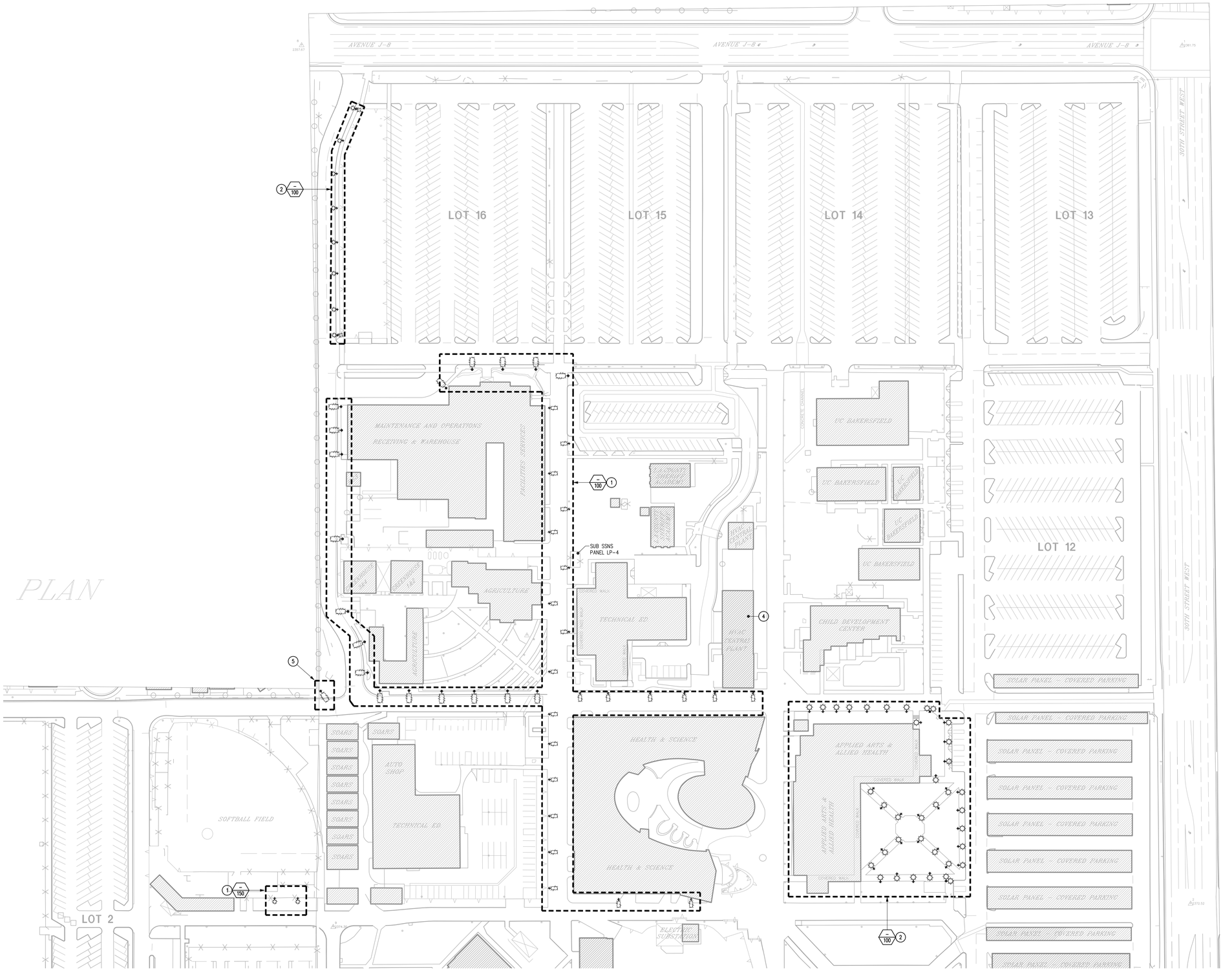
REGISTERED PROFESSIONAL ENGINEER — RAMIK K. MATHEVOSIAN — No. E-17205 — 9/30/2017 — ELECTRICAL — STATE OF CALIFORNIA

KOCHER SCHIRRA GOHARIZI
Consulting Engineers
111 N JACKSON SUITE 121 GLENDALE CA 91206
PHONE: 818.240.5630 FAX: 818.240.5144

PROJECT NAME: AVC LED LIGHTING UPGRADE PHASE 4 ANTELOPE VALLEY COLLEGE LANCASTER, CA

DRAWING TITLE: ABBREVIATIONS, SYMBOLS AND GENERAL NOTES

E-001



GENERAL NOTES:

A. PRIOR TO REMOVAL OF ANY LUMINAIRE, FIELD VERIFY EXISTING BRANCH CIRCUIT(S) FEEDING THE PARTICULAR LOT. IDENTIFY ALL CHANGES IF ANY REQUIRED FOR CONVERSION FROM EXISTING VOLTAGE LEVEL TO 277 VOLTS. IDENTIFY ANY OTHER FIXTURE OR EQUIPMENT THAT MAY BE FED FROM THE SAME BRANCH CIRCUIT AND IF ANY NOTIFY THE ENGINEER. IDENTIFY ALSO ANY MOTOR LOAD THAT IS FED FROM THE SAME PANELBOARD. DO NOT CONNECT ANY LIGHTING CIRCUIT(S) TO PANELBOARDS SERVING MOTORIZED EQUIPMENT.

B. WHEN CONVERTING AN EXISTING CONDUCTOR TO A NEUTRAL FOR NEW VOLTAGE LEVEL, THE SAID CONDUCTOR SHALL BE IDENTIFIED IN ALL ACCESSIBLE AREAS SUCH AS PANELBOARDS, PULL BOXES AND LIGHTING POLE. WRAP UP WITH GRAY TAPE FOR MINIMUM OF 12" IN PANELBOARDS AND PULL BOXES AND 6" INSIDE POWER POLES. THE NEUTRAL LOAD SHALL BE VERIFIED AND RESPECTIVE PANEL BOARD PHASES SHALL BE BALANCED.

C. ALL WORK SHALL BE PHASED AND SCHEDULED AT COLLEGE CONVENIENCE TO PROVIDE MINIMUM IMPACT TO CAMPUS ACTIVITY. WORK SHALL BE COMPLETED IN EACH LOT PRIOR TO MOVING TO NEXT ONE. UPON THE AWARD OF CONTRACT AND FIELD VERIFICATION PROVIDE A DETAILED SCHEDULE, IDENTIFYING EACH TASK, TIME AND DURATION OF IMPACT FOR APPROVAL BY COLLEGE.

D. ALL NEW LUMINAIRES SHALL BE ATTACHED TO EXISTING POLES BY HARDWARE APPROVED FOR THE PURPOSE PROVIDED BY FIXTURE MANUFACTURER.

NOTES:

1. REMOVE POLE MOUNTED LUMINAIRE. MAINTAIN AND SAFE-OFF WIRING AT TERMINATION POINT. MAINTAIN CONNECTION HARDWARE FOR RECONNECTION OF NEW LUMINAIRE WHERE APPLICABLE.
2. REMOVE EXISTING POLE AND POLE MOUNTED LUMINAIRE. MAINTAIN EXISTING FOUNDATION, WIRING AND CONDUIT FOR RECONNECTION TO NEW LUMINAIRE/POLES.
3. NOT USED
4. EXISTING POWER REBEL UNIT INSIDE THE CENTRAL PLANT IS TO BE REMOVED. REFER TO SHEET E-401 FOR DETAILS AND REQUIREMENTS.
5. REMOVE EXISTING POLE, POLE MOUNTED LUMINAIRE AND FOUNDATION. SAFE-OFF EXISTING WIRING AND CAP CONDUITS. BACKFILL HOLE AFTER FOUNDATION IS REMOVED.

N

H:\AVCC\12326 AVCC LED Lighting Upgrade Ph4\#A Drawings\Elec\12326E100.dwg, Plotted: August 16, 2017 11:44 AM Alex, (Last Saved: August 14, 2017 10:54 AM Alex)

REV	DATE	DESCRIPTION
1	08/08/2017	ADDENDUM 1

SCALE	1" = 60'-0"
KSC PROJECT NO.	12326
DESIGNED BY	AK
DRAWN BY	JA
CHECKED BY	RM
DATE	02.23.17

REGISTERED PROFESSIONAL ENGINEER RAMIN K. MATHEOSIAN No. E-17015 9/30/2017 ELECTRICAL STATE OF CALIFORNIA

KOCHER SCHIRRA GOHARIZI
Consulting Engineers
111 N JACKSON SUITE 121 GLENDALE CA 91206
PHONE: 818.240.5630 FAX: 818.240.5144

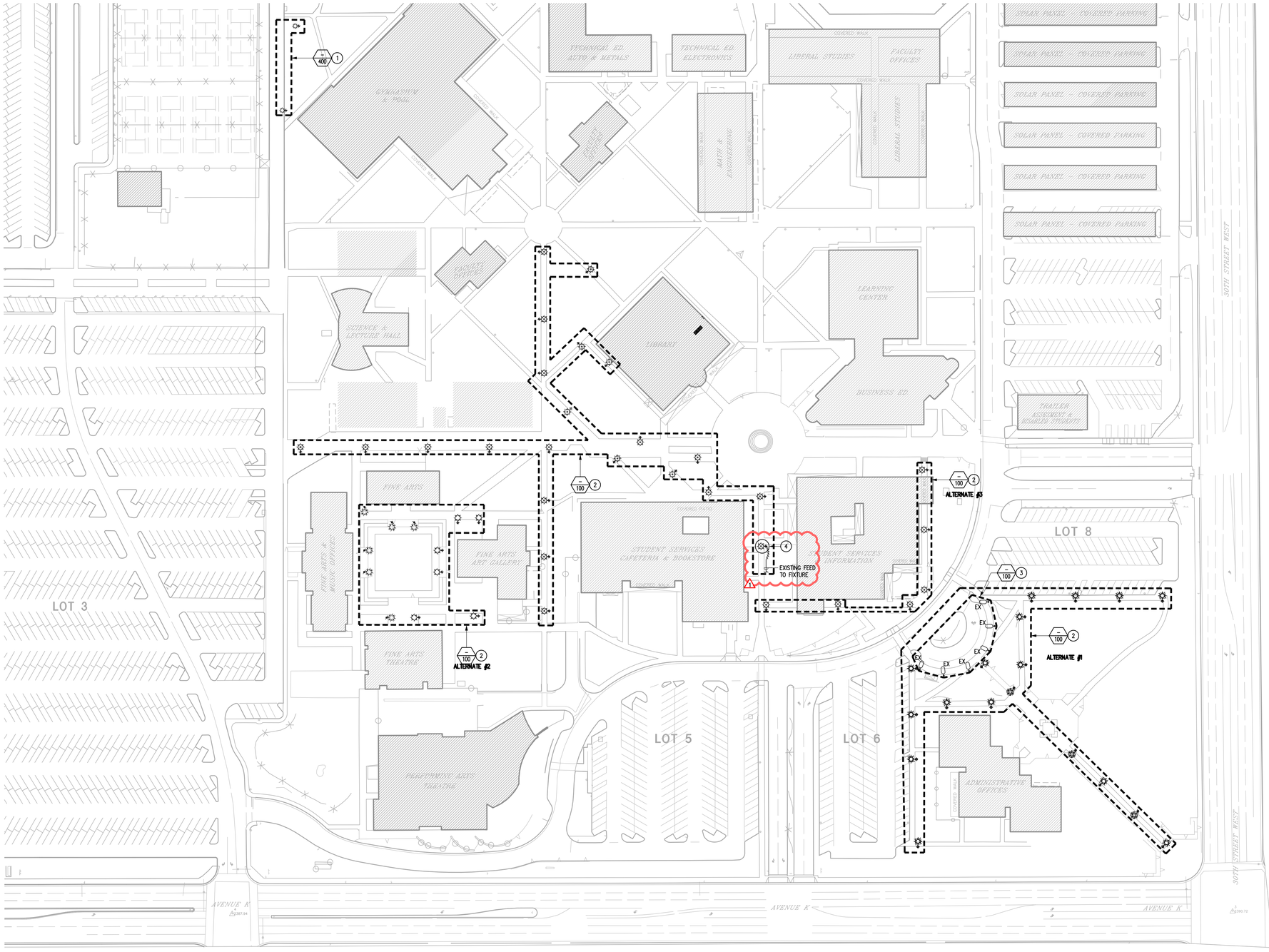
PROJECT NAME

AVC LED LIGHTING UPGRADE PHASE 4
ANTELOPE VALLEY
COLLEGE
LANCASTER, CA

DRAWING TITLE

LIGHTING PLAN
DEMOLITION CONDITION

E-100



GENERAL NOTES:

A. PRIOR TO REMOVAL OF ANY LUMINAIRE, FIELD VERIFY EXISTING BRANCH CIRCUIT(S) FEEDING THE PARTICULAR LOT. IDENTIFY ALL CHANGES IF ANY REQUIRED FOR CONVERSION FROM EXISTING VOLTAGE LEVEL TO 277 VOLTS. IDENTIFY ANY OTHER FIXTURE OR EQUIPMENT THAT MAY BE FED FROM THE SAME BRANCH CIRCUIT AND IF ANY NOTIFY THE ENGINEER. IDENTIFY ALSO ANY MOTOR LOAD THAT IS FED FROM THE SAME PANELBOARD. DO NOT CONNECT ANY LIGHTING CIRCUIT(S) TO PANELBOARDS SERVING MOTORIZED EQUIPMENT.

B. WHEN CONVERTING AN EXISTING CONDUCTOR TO A NEUTRAL FOR NEW VOLTAGE LEVEL, THE SAID CONDUCTOR SHALL BE IDENTIFIED IN ALL ACCESSIBLE AREAS SUCH AS PANELBOARDS, PULL BOXES AND LIGHTING POLE. WRAP UP WITH GRAY TAPE FOR MINIMUM OF 12" IN PANELBOARDS AND PULL BOXES AND 6" INSIDE POWER POLES. THE NEUTRAL LOAD SHALL BE VERIFIED AND RESPECTIVE PANEL BOARD PHASES SHALL BE BALANCED.

C. ALL WORK SHALL BE PHASED AND SCHEDULED AT COLLEGE CONVENIENCE TO PROVIDE MINIMUM IMPACT TO CAMPUS ACTIVITY. WORK SHALL BE COMPLETED IN EACH LOT PRIOR TO MOVING TO NEXT ONE. UPON THE AWARD OF CONTRACT AND FIELD VERIFICATION PROVIDE A DETAILED SCHEDULE, IDENTIFYING EACH TASK, TIME AND DURATION OF IMPACT FOR APPROVAL BY COLLEGE.

D. ALL NEW LUMINAIRES SHALL BE ATTACHED TO EXISTING POLES BY HARDWARE APPROVED FOR THE PURPOSE PROVIDED BY FIXTURE MANUFACTURER.

NOTES:

1. REMOVE POLE MOUNTED LUMINAIRE. MAINTAIN AND SAFE-OFF WIRING AT TERMINATION POINT. MAINTAIN CONNECTION HARDWARE FOR RECONNECTION OF NEW LUMINAIRE WHERE APPLICABLE.
2. REMOVE EXISTING POLE AND POLE MOUNTED LUMINAIRE. MAINTAIN EXISTING FOUNDATION, WIRING AND CONDUIT FOR RECONNECTION TO NEW LUMINAIRE/POLES.
3. LUMINAIRE TO BE MODIFIED WITH NEW LED KIT.
4. REMOVE EXISTING POLE, POLE MOUNTED LUMINAIRE AND EXISTING FOUNDATION. INTERCEPT EXISTING CONDUIT FEEDING FIXTURE WITH A PULLBOX.

N

REV	DATE	DESCRIPTION
1	08/08/2017	ADDENDUM 1

SCALE	1" = 100'-0"
KSC PROJECT NO.	12326
DESIGNED BY	AK
DRAWN BY	JA
CHECKED BY	RM
DATE	02.23.17

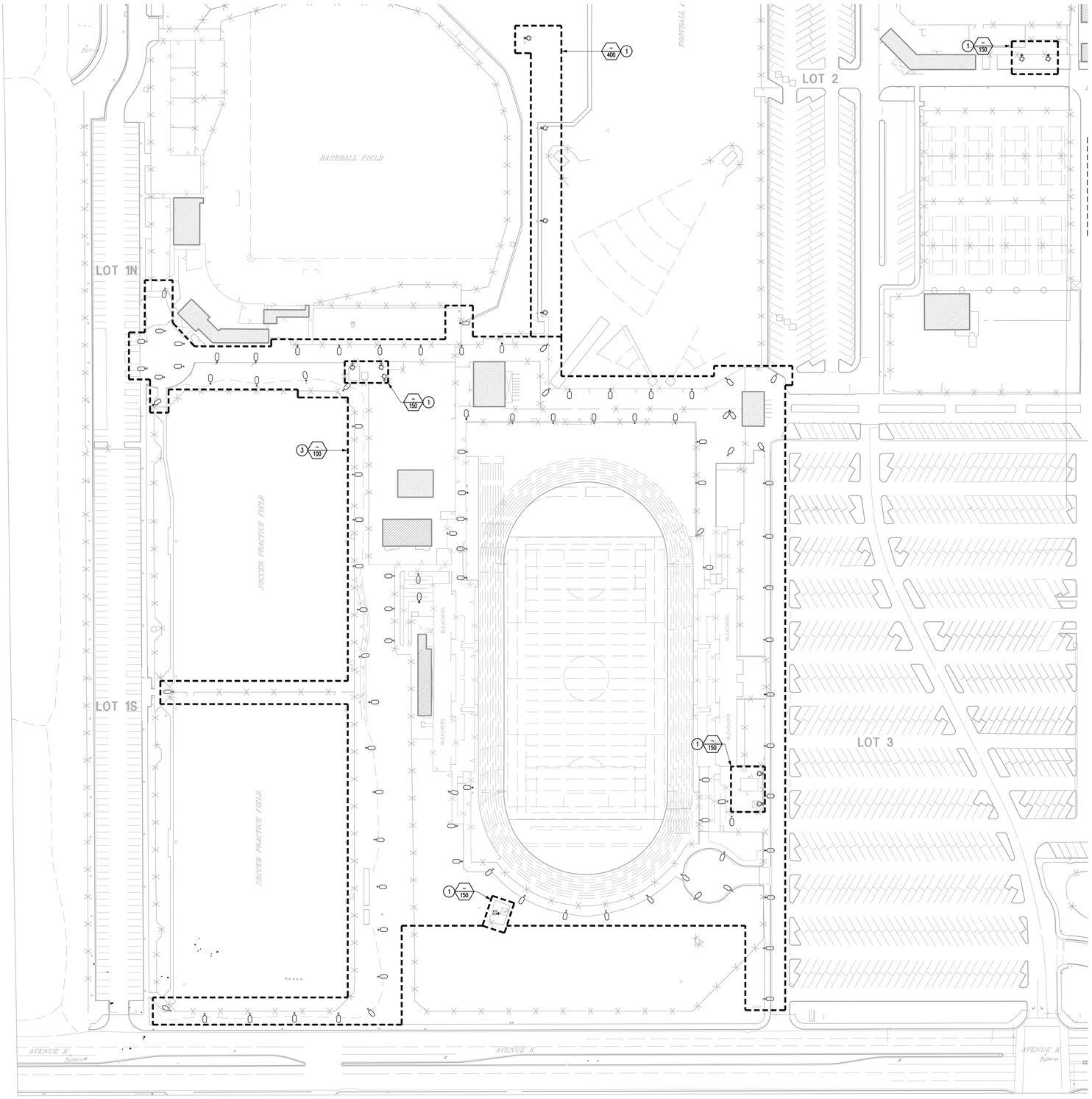
REGISTERED PROFESSIONAL ENGINEER RAMIK K. MATHEVOSIAN No. E-17205 9/30/2017 ELECTRICAL STATE OF CALIFORNIA

KOCHER SCHIRRA GOHARIZI
Consulting Engineers
111 N JACKSON SUITE 121 GLENDALE CA 91206
PHONE: 818.240.5630 FAX: 818.240.5144

PROJECT NAME
AVC LED LIGHTING UPGRADE PHASE 4
ANTELOPE VALLEY
COLLEGE
LANCASTER, CA

DRAWING TITLE
LIGHTING PLAN
DEMOLITION CONDITION

E-101



GENERAL NOTES:

A. PRIOR TO REMOVAL OF ANY LUMINAIRE, FIELD VERIFY EXISTING BRANCH CIRCUIT(S) FEEDING THE PARTICULAR LOT. IDENTIFY ALL CHANGES IF ANY REQUIRED FOR CONVERSION FROM EXISTING VOLTAGE LEVEL TO 277 VOLTS. IDENTIFY ANY OTHER FIXTURE OR EQUIPMENT THAT MAY BE FED FROM THE SAME BRANCH CIRCUIT AND IF ANY NOTIFY THE ENGINEER. IDENTIFY ALSO ANY MOTOR LOAD THAT IS FED FROM THE SAME PANELBOARD. DO NOT CONNECT ANY LIGHTING CIRCUIT(S) TO PANELBOARDS SERVING MOTORIZED EQUIPMENT.

B. WHEN CONVERTING AN EXISTING CONDUCTOR TO A NEUTRAL FOR NEW VOLTAGE LEVEL, THE SAID CONDUCTOR SHALL BE IDENTIFIED IN ALL ACCESSIBLE AREAS SUCH AS PANELBOARDS, PULL BOXES AND LIGHTING POLE. WRAP UP WITH GRAY TAPE FOR MINIMUM OF 12" IN PANELBOARDS AND PULL BOXES AND 6" INSIDE POWER POLES. THE NEUTRAL LOAD SHALL BE VERIFIED AND RESPECTIVE PANEL BOARD PHASES SHALL BE BALANCED.

C. ALL WORK SHALL BE PHASED AND SCHEDULED AT COLLEGE CONVENIENCE TO PROVIDE MINIMUM IMPACT TO CAMPUS ACTIVITY. WORK SHALL BE COMPLETED IN EACH LOT PRIOR TO MOVING TO NEXT ONE. UPON THE AWARD OF CONTRACT AND FIELD VERIFICATION PROVIDE A DETAILED SCHEDULE, IDENTIFYING EACH TASK, TIME AND DURATION OF IMPACT FOR APPROVAL BY COLLEGE.

D. ALL NEW LUMINAIRES SHALL BE ATTACHED TO EXISTING POLES BY HARDWARE APPROVED FOR THE PURPOSE PROVIDED BY FIXTURE MANUFACTURER.

NOTES:

(1) REMOVE POLE MOUNTED LUMINAIRE. MAINTAIN AND SAFE-OFF WIRING AT TERMINATION POINT. MAINTAIN CONNECTION HARDWARE FOR RECONNECTION OF NEW LUMINAIRE WHERE APPLICABLE.

(2) NOT USED

(3) LUMINAIRE TO BE MODIFIED WITH NEW LED KIT.

N

REV	DATE	DESCRIPTION
1	08/08/2017	ADDENDUM 1

SCALE	1" = 100'-0"
KSC PROJECT NO.	12326
DESIGNED BY	AK
DRAWN BY	JA
CHECKED BY	RM
DATE	02.23.17

REGISTERED PROFESSIONAL ENGINEER RAZMIK MATHEVOSIAN No. E-17015 9/30/2017 ELECTRICAL STATE OF CALIFORNIA

KOCHER SCHIRRA GOHARIZI
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PHONE: 818.240.5630 FAX: 818.240.5144

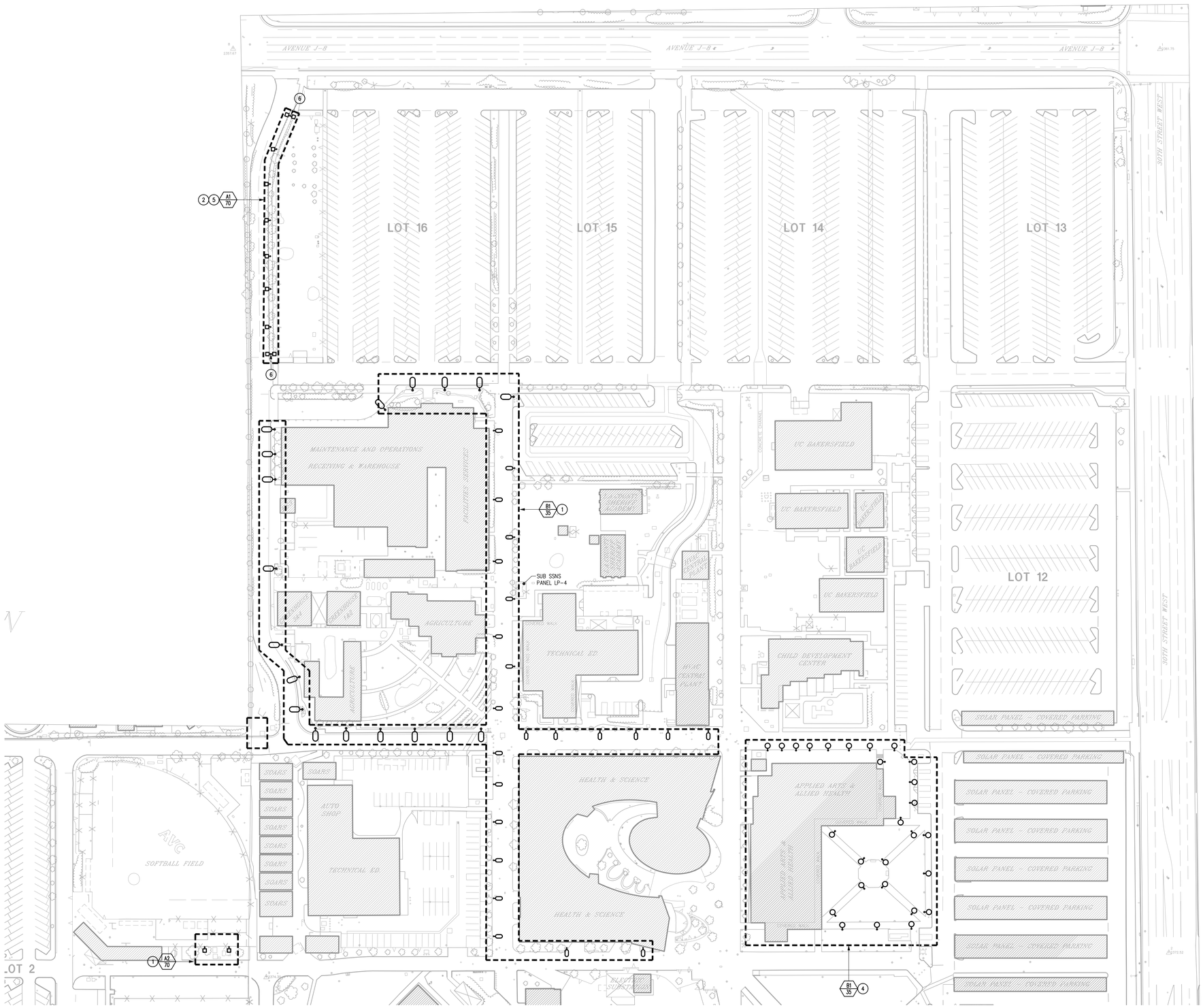
PROJECT NAME

AVC LED LIGHTING UPGRADE PHASE 4
ANTELOPE VALLEY
COLLEGE
LANCASTER, CA

DRAWING TITLE

LIGHTING PLAN
DEMOLITION CONDITION

E-102



GENERAL NOTES:

A. PRIOR TO REMOVAL OF ANY FIXTURE, FIELD VERIFY EXISTING BRANCH CIRCUIT(S) FEEDING THE PARTICULAR LOT. IDENTIFY ALL CHANGES REQUIRED FOR CONVERSION FROM EXISTING VOLTAGE LEVEL TO 277 VOLTS. IDENTIFY ANY OTHER FIXTURE OR EQUIPMENT THAT MAY BE FED FROM THE SAME BRANCH CIRCUIT AND IF ANY NOTIFY THE ENGINEER. IDENTIFY ALSO ANY MOTOR LOAD THAT IS FED FROM THE SAME PANELBOARD. DO NOT CONNECT ANY LIGHTING CIRCUIT(S) TO PANELBOARDS SERVING MOTORIZED EQUIPMENT.

B. WHEN CONVERTING AN EXISTING CONDUCTOR TO A NEUTRAL FOR NEW VOLTAGE LEVEL, THE SAID CONDUCTOR SHALL BE IDENTIFIED IN ALL ACCESSIBLE AREAS SUCH AS PANELBOARDS, PULL BOXES AND LIGHTING POLE. WRAP UP WITH GRAY TAPE FOR MINIMUM OF 12" IN PANELBOARDS AND PULL BOXES AND 6" INSIDE POWER POLES. THE NEUTRAL LOAD SHALL BE VERIFIED AND RESPECTIVE PANEL BOARD PHASES SHALL BE BALANCED.

C. ALL WORK SHALL BE PHASED AND SCHEDULED AT COLLEGE CONVENIENCE TO PROVIDE MINIMUM IMPACT TO CAMPUS ACTIVITY. WORK SHALL BE COMPLETED IN EACH LOT PRIOR TO MOVING TO NEXT ONE. UPON THE AWARD OF CONTRACT AND FIELD VERIFICATION PROVIDE A DETAILED SCHEDULE, IDENTIFYING EACH TASK, TIME AND DURATION OF IMPACT FOR APPROVAL BY COLLEGE.

D. ALL NEW FIXTURES SHALL BE ATTACHED TO EXISTING POLES BY HARDWARE APPROVED FOR THE PURPOSE PROVIDED BY FIXTURE MANUFACTURER.

F. WHERE NEW POLES ARE TO BE INSTALLED ON EXISTING FOUNDATIONS CONTRACTOR OR POLE VENDOR SHALL CONFIRM THAT THE NEW POLE BASE PLATE SHALL FIT EXISTING BOLT PATTERN AT EACH PEDESTAL BEFORE ORDERING. MANUFACTURER MAY NEED TO MODIFY PLATE BEFORE SHIPPING..

G. WHERE LED RETROFIT KITS ARE TO BE INSTALLED INSIDE EXISTING FIXTURES, INSTALLATION SHALL BE PER MANUFACTURER REQUIREMENTS. MANUFACTURER MAY ASK FOR THE REFLECTOR TO BE REMOVED FROM FIXTURE. REMOVE REFLECTOR, BUT MAINTAIN OR REINSTALL ACCENT PIECE.

H. AT THE COMPLETION OF THE PROJECT, CONTRACTOR IN COORDINATION WITH LIGHTING CONTROL SYSTEM SUPPLIER AND COLLEGE FACILITIES SHALL NUMBER EACH LIGHTING POLE AND PROVIDE AN IDENTIFICATION PLATE WITH LOT NUMBER AND POLE NUMBER AS PER DETAIL 8/E-400.

1 I. PRIOR TO REMOVAL OF ANY FIXTURE, FIELD VERIFY EXISTING BRANCH CIRCUIT(S) FEEDING THE PARTICULAR WALKWAYS IN THE SCOPE. IDENTIFY EXISTING FIXTURE VOLTAGE BEFORE ORDERING NEW FIXTURES. IDENTIFY ANY OTHER FIXTURE OR EQUIPMENT THAT MAY BE FED FROM THE SAME BRANCH CIRCUIT AND IF ANY NOTIFY THE ENGINEER.

NOTES:

1. INSTALL NEW LED LUMINARE ON EXISTING POLE. RECONNECT TO EXISTING WIRING. SEE LUMINARE SCHEDULE ON SHEET E-400.
2. INSTALL NEW POLE AND LUMINARE ON EXISTING FOUNDATION. RECONNECT TO EXISTING WIRING. SEE LUMINARE SCHEDULE ON SHEET E-400.
3. NOT USED
4. INSTALL NEW POLE AND LUMINARE ON EXISTING FOUNDATION. RECONNECT TO EXISTING WIRING. SEE SHEET E-300 FOR MORE INFORMATION AND SEE SHEET E-400 FOR LUMINARE SCHEDULE.
5. NEW LED LUMINARE WITH WIRELESS CONTROL MODULE PER SCHEDULE ON SHEET E-400 AND SPECIFICATION TO BE FURNISHED, INSTALLED AND COMMISSIONED BY CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE TO RETAIN SERVICES OF A FACTORY AUTHORIZED TECHNICIAN TO PROGRAM, TEST AND COMMISSION INDIVIDUAL AND COMPLETE LIGHTING SYSTEM TO ENSURE A TROUBLE FREE OPERATION.
6. CONTRACTOR SHALL PROVIDE MOUNTING HARDWARE FOR POLE WITH TWO FIXTURES.

REV	DATE	DESCRIPTION
1	08/08/2017	ADDENDUM 1

SCALE	1" = 100'-0"
KSC PROJECT NO.	12326
DESIGNED BY	AK
DRAWN BY	JA
CHECKED BY	RM
DATE	02.23.17

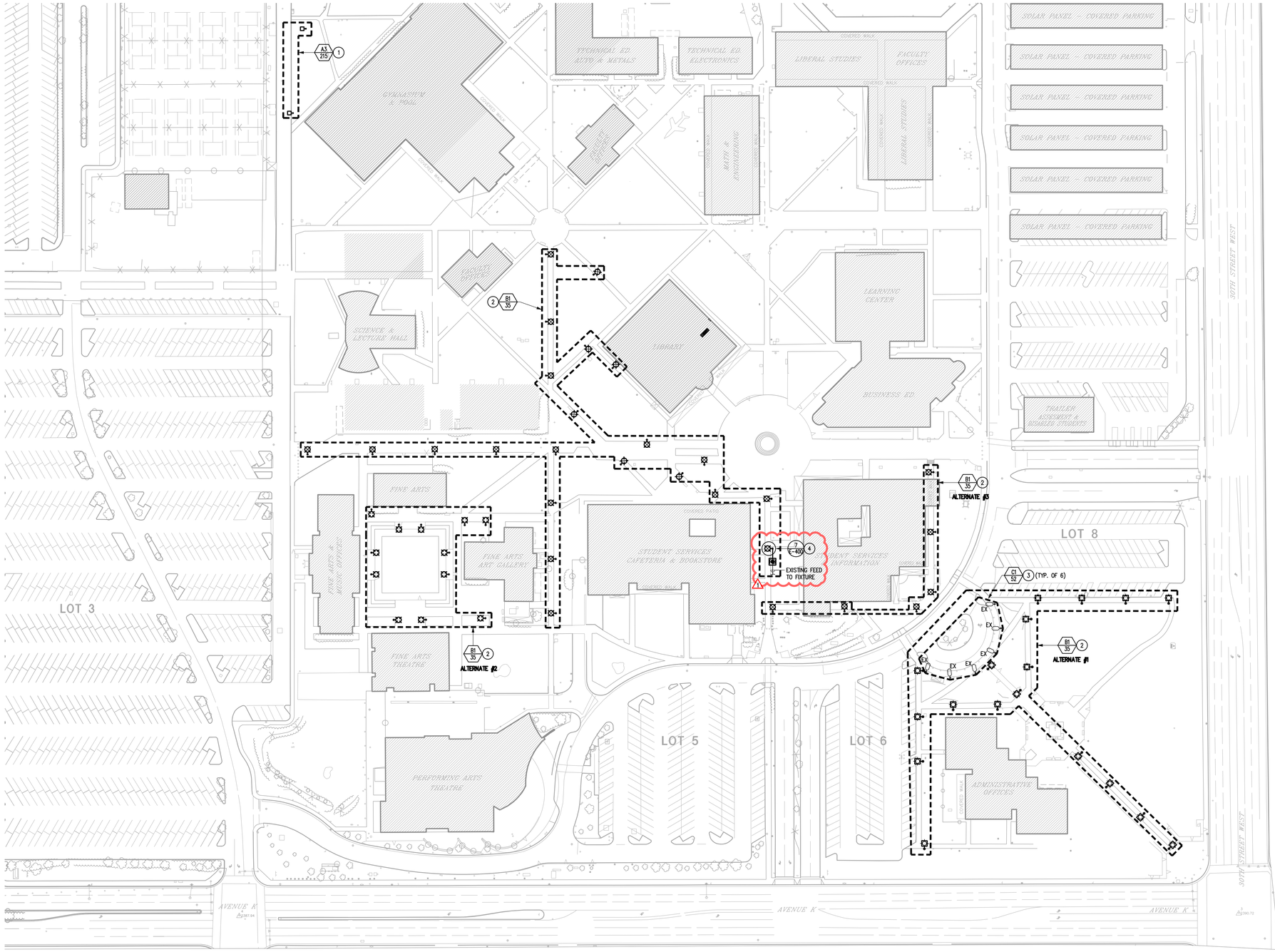
REGISTERED PROFESSIONAL ENGINEER RAMAIR MATHEVOSIAN No. E-17015 9/30/2017 ELECTRICAL STATE OF CALIFORNIA

KOCHER SCHIRRA GOHARIZI
Consulting Engineers
111 N JACKSON SUITE 121 GLENDALE CA 91206
PHONE: 818.240.5630 FAX: 818.240.5144

PROJECT NAME
AVC LED LIGHTING UPGRADE PHASE 4
ANTELOPE VALLEY
COLLEGE
LANCASTER, CA

DRAWING TITLE
LIGHTING PLAN
NEW CONDITION

E-200



GENERAL NOTES:

A. PRIOR TO REMOVAL OF ANY FIXTURE, FIELD VERIFY EXISTING BRANCH CIRCUIT(S) FEEDING THE PARTICULAR LOT. IDENTIFY ALL CHANGES REQUIRED FOR CONVERSION FROM EXISTING VOLTAGE LEVEL TO 277 VOLTS. IDENTIFY ANY OTHER FIXTURE OR EQUIPMENT THAT MAY BE FED FROM THE SAME BRANCH CIRCUIT AND IF ANY NOTIFY THE ENGINEER. IDENTIFY ALSO ANY MOTOR LOAD THAT IS FED FROM THE SAME PANELBOARD. DO NOT CONNECT ANY LIGHTING CIRCUIT(S) TO PANELBOARDS SERVING MOTORIZED EQUIPMENT.

B. WHEN CONVERTING AN EXISTING CONDUCTOR TO A NEUTRAL FOR NEW VOLTAGE LEVEL, THE SAID CONDUCTOR SHALL BE IDENTIFIED IN ALL ACCESSIBLE AREAS SUCH AS PANELBOARDS, PULL BOXES AND LIGHTING POLE. WRAP UP WITH GRAY TAPE FOR MINIMUM OF 12" IN PANELBOARDS AND PULL BOXES AND 6" INSIDE POWER POLES. THE NEUTRAL LOAD SHALL BE VERIFIED AND RESPECTIVE PANEL BOARD PHASES SHALL BE BALANCED.

C. ALL WORK SHALL BE PHASED AND SCHEDULED AT COLLEGE CONVENIENCE TO PROVIDE MINIMUM IMPACT TO CAMPUS ACTIVITY. WORK SHALL BE COMPLETED IN EACH LOT PRIOR TO MOVING TO NEXT ONE. UPON THE AWARD OF CONTRACT AND FIELD VERIFICATION PROVIDE A DETAILED SCHEDULE, IDENTIFYING EACH TASK, TIME AND DURATION OF IMPACT FOR APPROVAL BY COLLEGE.

D. ALL NEW FIXTURES SHALL BE ATTACHED TO EXISTING POLES BY HARDWARE APPROVED FOR THE PURPOSE PROVIDED BY FIXTURE MANUFACTURER.

F. WHERE NEW POLES ARE TO BE INSTALLED ON EXISTING FOUNDATIONS CONTRACTOR OR POLE VENDOR SHALL CONFIRM THAT THE NEW POLE BASE PLATE SHALL FIT EXISTING BOLT PATTERN AT EACH PEDESTAL BEFORE ORDERING. MANUFACTURER MAY NEED TO MODIFY PLATE BEFORE SHIPPING..

G. WHERE LED RETROFIT KITS ARE TO BE INSTALLED INSIDE EXISTING FIXTURES, INSTALLATION SHALL BE PER MANUFACTURER REQUIREMENTS. MANUFACTURER MAY ASK FOR THE REFLECTOR TO BE REMOVED FROM FIXTURE. REMOVE REFLECTOR, BUT MAINTAIN OR REINSTALL ACCENT PIECE.

H. AT THE COMPLETION OF THE PROJECT, CONTRACTOR IN COORDINATION WITH LIGHTING CONTROL SYSTEM SUPPLIER AND COLLEGE FACILITIES SHALL NUMBER EACH LIGHTING POLE AND PROVIDE AN IDENTIFICATION PLATE WITH LOT NUMBER AND POLE NUMBER AS PER DETAIL 8/E-400.

1 I. PRIOR TO REMOVAL OF ANY FIXTURE, FIELD VERIFY EXISTING BRANCH CIRCUIT(S) FEEDING THE PARTICULAR WALKWAYS IN THE SCOPE. IDENTIFY EXISTING FIXTURE VOLTAGE BEFORE ORDERING NEW FIXTURES. IDENTIFY ANY OTHER FIXTURE OR EQUIPMENT THAT MAY BE FED FROM THE SAME BRANCH CIRCUIT AND IF ANY NOTIFY THE ENGINEER.

NOTES:

1. INSTALL NEW LED LUMINARE ON EXISTING POLE. RECONNECT TO EXISTING WIRING. SEE LUMINARE SCHEDULE ON SHEET E-400.
2. INSTALL NEW POLE AND LUMINARE ON EXISTING FOUNDATION. RECONNECT TO EXISTING WIRING. SEE LUMINARE SCHEDULE ON SHEET E-400.
3. MODIFY EXISTING LUMINARE WITH NEW RETROFIT KIT. SEE SHEET E-400 FOR SCHEDULES.
1 4. PROVIDE NEW FOUNDATION WITH NEW CONDUIT AND WIRING UP THRU THE FOUNDATION, FROM NEW INTERCEPT PULLBOX. CONNECT EXISTING WIRING TO NEW WIRING INSIDE PULLBOX.

N

H:\AVC\12326 AVCC LED Lighting Upgrade Ph4\Drawings\Elec\12326E201.dwg, Plotted: August 16, 2017 11:45 AM Alex, (Last Saved: August 16, 2017 11:33 AM Alex)

REV	DATE	DESCRIPTION
1	08/08/2017	ADDENDUM 1

SCALE	1" = 100'-0"
KSC PROJECT NO.	12326
DESIGNED BY	AK
DRAWN BY	JA
CHECKED BY	RM
DATE	02.23.17

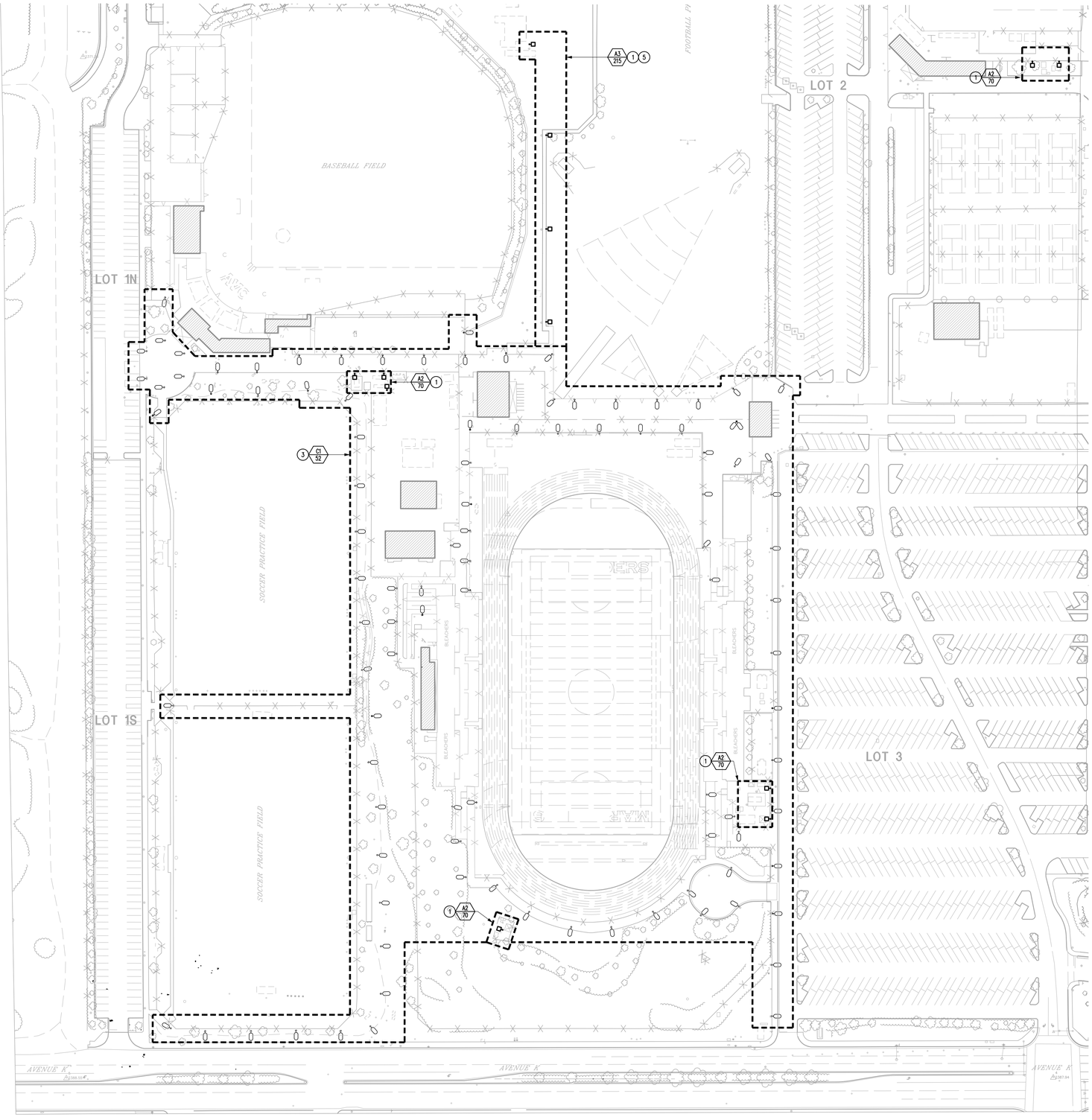
REGISTERED PROFESSIONAL ENGINEER RAGHAVA K. MATHEVOOTHAN No. E-17015 9/30/2017 ELECTRICAL STATE OF CALIFORNIA

KOCHER SCHIRRA GOHARIZI
Consulting Engineers
111 N. JACKSON SUITE 121 GLENDALE CA 91206
PHONE: 818.240.5630 FAX: 818.240.5144

PROJECT NAME
AVC LED LIGHTING UPGRADE PHASE 4
ANTELOPE VALLEY
COLLEGE
LANCASTER, CA

DRAWING TITLE
LIGHTING PLAN
NEW CONDITION

E-201



GENERAL NOTES:

A. PRIOR TO REMOVAL OF ANY FIXTURE, FIELD VERIFY EXISTING BRANCH CIRCUIT(S) FEEDING THE PARTICULAR LOT. IDENTIFY ALL CHANGES REQUIRED FOR CONVERSION FROM EXISTING VOLTAGE LEVEL TO 277 VOLTS. IDENTIFY ANY OTHER FIXTURE OR EQUIPMENT THAT MAY BE FED FROM THE SAME BRANCH CIRCUIT AND IF ANY NOTIFY THE ENGINEER. IDENTIFY ALSO ANY MOTOR LOAD THAT IS FED FROM THE SAME PANELBOARD. DO NOT CONNECT ANY LIGHTING CIRCUIT(S) TO PANELBOARDS SERVING MOTORIZED EQUIPMENT.

B. WHEN CONVERTING AN EXISTING CONDUCTOR TO A NEUTRAL FOR NEW VOLTAGE LEVEL, THE SAID CONDUCTOR SHALL BE IDENTIFIED IN ALL ACCESSIBLE AREAS SUCH AS PANELBOARDS, PULL BOXES AND LIGHTING POLE. WRAP UP WITH GRAY TAPE FOR MINIMUM OF 12" IN PANELBOARDS AND PULL BOXES AND 6" INSIDE POWER POLES. THE NEUTRAL LOAD SHALL BE VERIFIED AND RESPECTIVE PANEL BOARD PHASES SHALL BE BALANCED.

C. ALL WORK SHALL BE PHASED AND SCHEDULED AT COLLEGE CONVENIENCE TO PROVIDE MINIMUM IMPACT TO CAMPUS ACTIVITY. WORK SHALL BE COMPLETED IN EACH LOT PRIOR TO MOVING TO NEXT ONE. UPON THE AWARD OF CONTRACT AND FIELD VERIFICATION PROVIDE A DETAILED SCHEDULE, IDENTIFYING EACH TASK, TIME AND DURATION OF IMPACT FOR APPROVAL BY COLLEGE.

D. ALL NEW FIXTURES SHALL BE ATTACHED TO EXISTING POLES BY HARDWARE APPROVED FOR THE PURPOSE PROVIDED BY FIXTURE MANUFACTURER.

F. WHERE NEW POLES ARE TO BE INSTALLED ON EXISTING FOUNDATIONS CONTRACTOR OR POLE VENDOR SHALL CONFIRM THAT THE NEW POLE BASE PLATE SHALL FIT EXISTING BOLT PATTERN AT EACH PEDESTAL BEFORE ORDERING. MANUFACTURER MAY NEED TO MODIFY PLATE BEFORE SHIPPING.

G. WHERE LED RETROFIT KITS ARE TO BE INSTALLED INSIDE EXISTING FIXTURES, INSTALLATION SHALL BE PER MANUFACTURER REQUIREMENTS. MANUFACTURER MAY ASK FOR THE REFLECTOR TO BE REMOVED FROM FIXTURE. REMOVE REFLECTOR, BUT MAINTAIN OR REINSTALL ACCENT PIECE.

H. AT THE COMPLETION OF THE PROJECT, CONTRACTOR IN COORDINATION WITH LIGHTING CONTROL SYSTEM SUPPLIER AND COLLEGE FACILITIES SHALL NUMBER EACH LIGHTING POLE AND PROVIDE AN IDENTIFICATION PLATE WITH LOT NUMBER AND POLE NUMBER AS PER DETAIL 8/E-400.

1 I. PRIOR TO REMOVAL OF ANY FIXTURE, FIELD VERIFY EXISTING BRANCH CIRCUIT(S) FEEDING THE PARTICULAR WALKWAYS IN THE SCOPE. IDENTIFY EXISTING FIXTURE VOLTAGE BEFORE ORDERING NEW FIXTURES. IDENTIFY ANY OTHER FIXTURE OR EQUIPMENT THAT MAY BE FED FROM THE SAME BRANCH CIRCUIT AND IF ANY NOTIFY THE ENGINEER.

NOTES:

1. INSTALL NEW LED LUMINARE ON EXISTING POLE. RECONNECT TO EXISTING WIRING. MAINTAIN EXISTING CONTROLS. SEE LUMINARE SCHEDULE ON SHEET E-400.
2. NOT USED
3. MODIFY EXISTING LUMINARE WITH NEW RETROFIT KIT. SEE SHEET E-400 FOR SCHEDULES.
4. NOT USED
5. NEW LED LUMINARE WITH WIRELESS CONTROL MODULE PER SCHEDULE ON SHEET E-400 AND SPECIFICATION TO BE FURNISHED, INSTALLED AND COMMISSIONED BY CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE TO RETAIN SERVICES OF A FACTORY AUTHORIZED TECHNICIAN TO PROGRAM, TEST AND COMMISSION INDIVIDUAL AND COMPLETE LIGHTING SYSTEM TO ENSURE A TROUBLE FREE OPERATION.

N

REV	DATE	DESCRIPTION
1	08/08/2017	ADDENDUM 1

SCALE	1" = 100'-0"
KSG PROJECT NO.	12326
DESIGNED BY	AK
DRAWN BY	JA
CHECKED BY	RM
DATE	02.23.17

REGISTERED PROFESSIONAL ENGINEER RAJAN K. MATHEVOSIAN No. E-17015 9/30/2017 ELECTRICAL STATE OF CALIFORNIA

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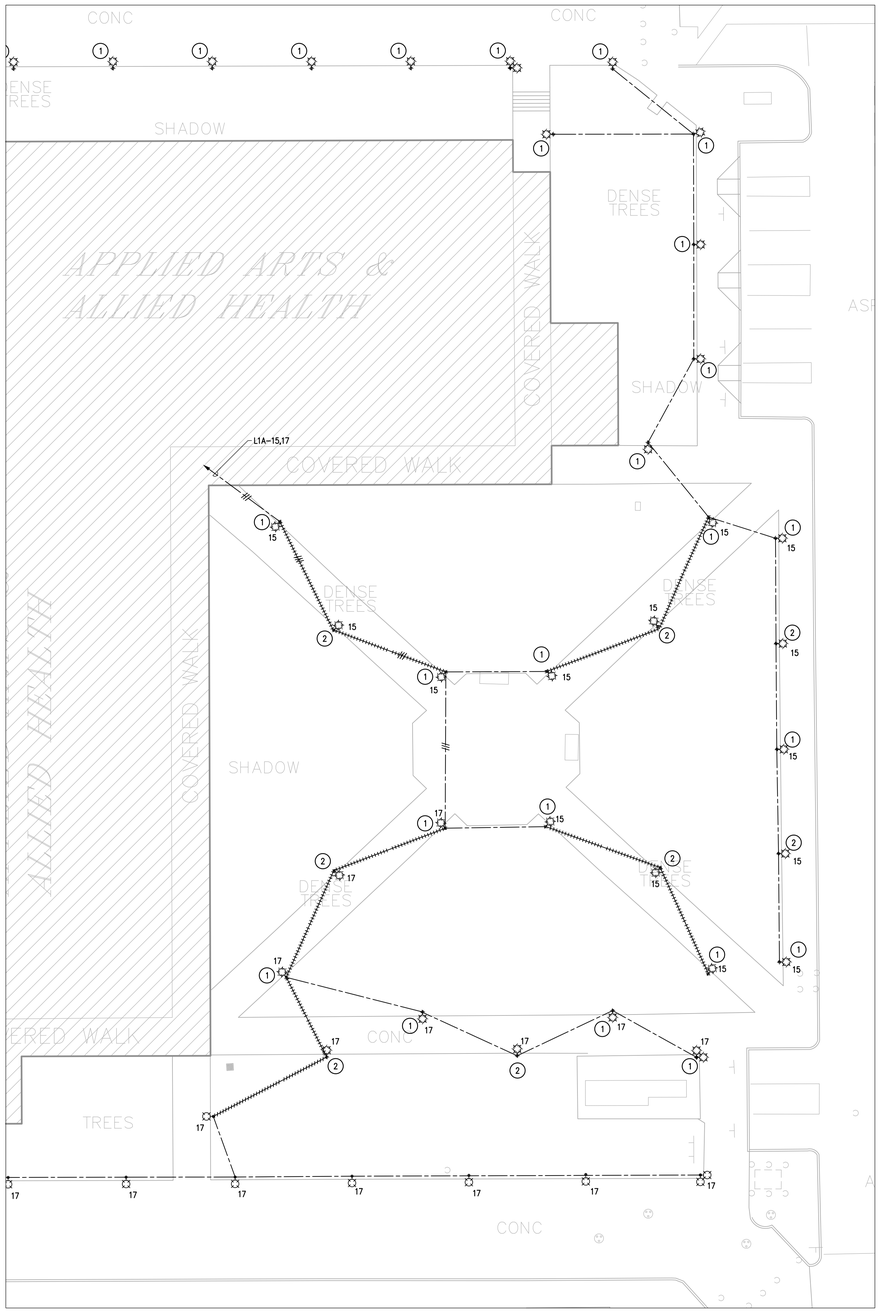
PROJECT NAME

AVC LED LIGHTING UPGRADE PHASE 4
ANTELOPE VALLEY
COLLEGE
LANCASTER, CA

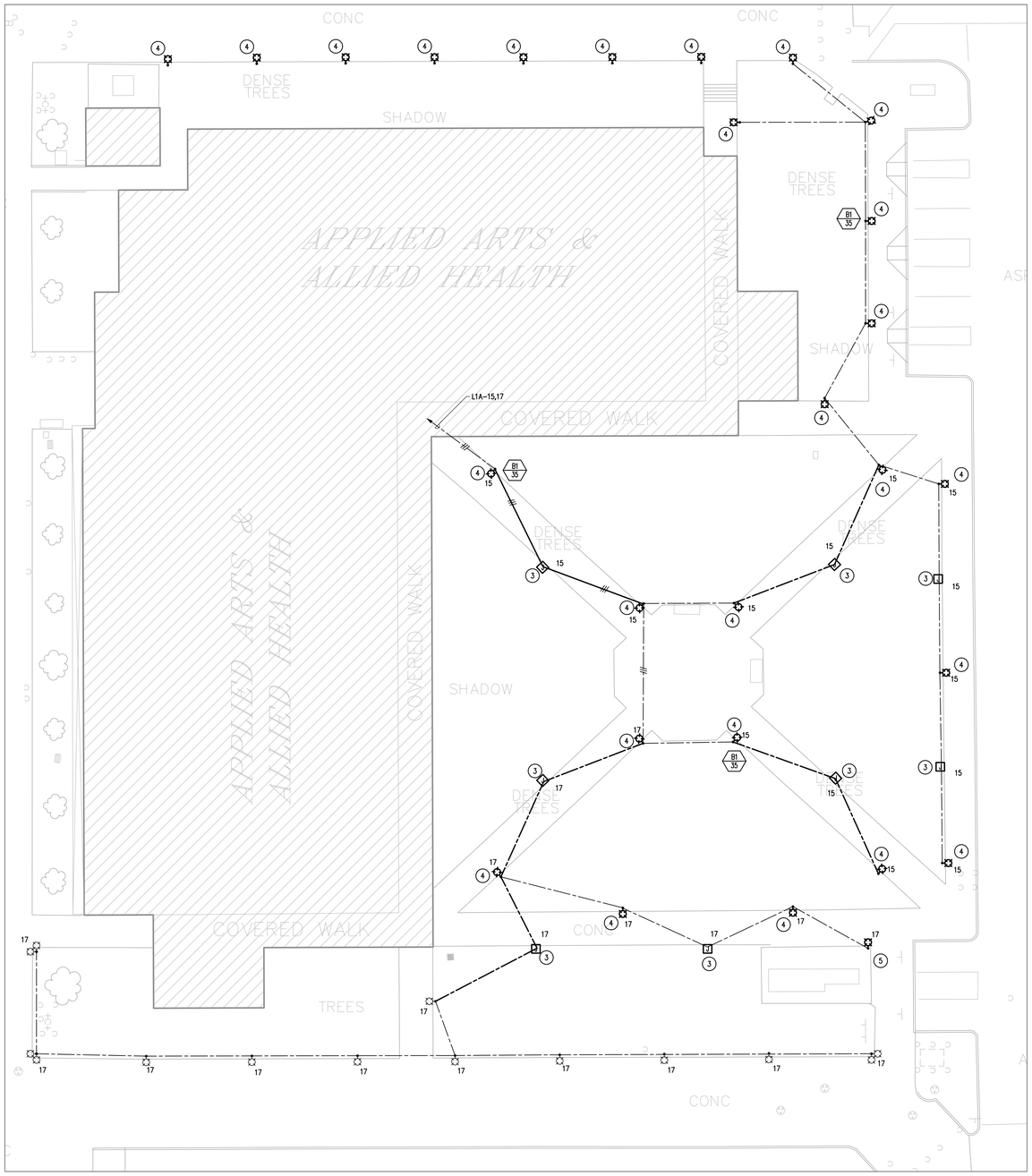
DRAWING TITLE

LIGHTING PLAN
NEW CONDITION

E-202



DEMO CONDITION | NTS | 1



NEW CONDITION | NTS | 2

GENERAL NOTES

A. PRIOR TO ANY DIGGING OR EXCAVATION TO INSTALL NEW INTERCEPT PULLBOXS, CONTRACTOR REFER TO COLLEGE RECORD DRAWINGS OF EXISTING UNDERGROUND UTILITIES AND USE THEM AS GUIDE FOR LOCATING EXISTING UNDERGROUD LINES (ELECTRIC, SEWER, WATER, ETC.). CONTRACTOR SHALL VERIFY EXACT LOCATION OF LINES ALONG THE NEW UNDERGROUND CONDUIT RUNS BY USING ELECTRONIC LOCATING DEVICES.

INCLUDE COST OF LOCATING THE UNDERGROUND LINES IN THE BID. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO EXISTING UNDERGROUND LINES DUE TO NEGLIGENCE.

B. ALL AREAS TO BE EXCAVETED FOR INSTALLATION OF NEW INTERCEPT PULLBOXS SHALL BE BARRICADED FOR THE SAFETY AND PROTECTION OF PEDESTRIANS. BARRICADES SHALL BE CHAIN LINK FENCE PANELS OF 6'H BY 10'W, WITH STANDS AND TIED TOGETHER END TO END WITH MINIMUM # 8 WIRE. BARRICADES WILL REMAIN IN PLACE ANTIL THE SURFACE IS RESTORED BACK TO ORIGINAL.

C. MINIMIZE NOISE FROM EXCAVATION AND BACKFILL OPERATIONS DURING SCHOOL HOURS WHEN WORKING IN PROXIMITY TO THE BUILDINGS.

D. MINIMIZE PRODUCTION AND SPREAD OF DUST BY WATERING WHEN EXCAVATING OR BACKFILLING.

E. ALL CONDUIT RUNS PASSING EXISTING CONCRETE SIDE WALKS SHALL BE INSTALLED BY HORIZONTAL BORING TO AVOID CUTTING EXISTING SIDEWALKS UNLESS NOTED OTHERWISE.

SHEET NOTES

1. REMOVE EXISTING POLE AND LUMINAIRE.
2. REMOVE EXISTING POLE AND LUMINAIRE AND DEMOLISH EXISTING FOUNDATION. MAINTAIN EXISTING CONDUIT AND REMOVE WIRING FROM POLES TO POLE.
3. EXCAVATE ON BOTH SIDES TO EXPOSE EXISTING CONDUITS, PROVIDE PULLBOX (SEE DETAIL 4/E–400) AT INTERCEPTION POINT AND PULL NEW WIRING.
4. INSTALL NEW POLE AND LUMINAIRE ON EXISTING FOUNDATION. RECONNECT TO EXISTING WIRING.
5. INSTALL NEW POLE AND TWO NEW LUMINAIRE ON EXISTING FOUNDATION. RECONNECT TO EXISTING WIRING.

REV	DATE	DESCRIPTION
1	08/08/2017	ADDENDUM 1

SCALE	1/16" = 1'-0"
KSG PROJECT NO.	12326
DESIGNED BY	AK
DRAWN BY	JA
CHECKED BY	RM
DATE	02.23.17

REGISTERED PROFESSIONAL ENGINEER RAMIK K. MATHEVOSIAN No. E-17005 9/30/2017 ELECTRICAL STATE OF CALIFORNIA

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PROJECT NAME
AVC LED LIGHTING UPGRADE PHASE 4
ANTELOPE VALLEY
COLLEGE
LANCASTER, CA

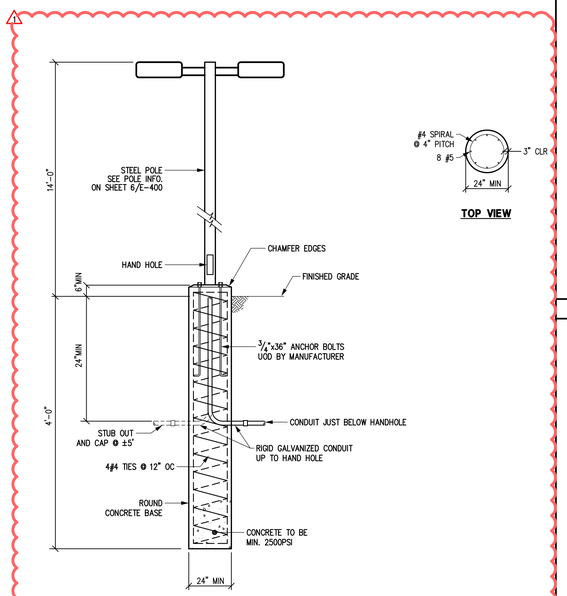
DRAWING TITLE
ENLARGED PLANS

E-300

ANTELOPE VALLEY SITE REPLACEMENT

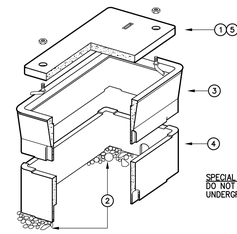
TYPE	DESCRIPTION	FINISH	LAMP(S)	BALLAST	WATTAGE	VOLTS	MANUFACTURER & PART NUMBER	REMARKS
A1	LUMINAIRE WITH ONE PIECE ALUMINUM HOUSING WITH INTEGRAL ARM AND SEPARATE, SELFRETAINED HINGED, ONE PIECE DIECAST DOOR FRAME. RETROFIT ARM MOUNT TO ELIMINATE ADDITIONAL POLE DRILLING.	NATURAL PAINT	1 - 69W LED NW 4K	0-10V INTEGRATED	69	277	GARDCO -ECF-DIM-1-2-70LA-3270-NW-UNV-NP-RAM-IS-LUMEWAVE PCR KIT WITH LEADS OR APPROVED EQUAL BASED ON FIXTURE SCHEDULE AND SPECIFICATIONS FIXURE PROVIDED WITH LUMEWAVE TOP 900 SERIES REMOTE CONTROL MODULE AND ANSI 136.41 STANDARD 7-PIN TWIST LOCK PHOTOCELL RECEPTACLE	FIXTURE PROVIDED WITH ALL MOUNTING HARDWARE.
A2	LUMINAIRE WITH ONE PIECE ALUMINUM HOUSING WITH INTEGRAL ARM AND SEPARATE, SELFRETAINED HINGED, ONE PIECE DIECAST DOOR FRAME. RETROFIT ARM MOUNT TO ELIMINATE ADDITIONAL POLE DRILLING.	NATURAL PAINT	1 - 69W LED 4K	0-10V INTEGRATED	69	277	GARDCO -ECF-DIM-1-4-135LA-6470-NW-UNV-NP-RAM-LUMEWAVE PCR KIT WITH LEADS OR APPROVED EQUAL BASED ON FIXTURE SCHEDULE AND SPECIFICATIONS FIXURE PROVIDED WITH ANSI 136.41 STANDARD 7-PIN TWIST LOCK PHOTOCELL RECEPTACLE	FIXTURE PROVIDED WITH ALL MOUNTING HARDWARE.
A3	LUMINAIRE WITH ONE PIECE ALUMINUM HOUSING WITH INTEGRAL ARM AND SEPARATE, SELFRETAINED HINGED, ONE PIECE DIECAST DOOR FRAME. RETROFIT ARM MOUNT TO ELIMINATE ADDITIONAL POLE DRILLING.	NATURAL PAINT	1 - 215W LED 4K	0-10V INTEGRATED	215	277	GARDCO -ECF-DIM-1-4-215LA-641A-NW-UNV-NP-RAM-LUMEWAVE PCR KIT WITH LEADS OR APPROVED EQUAL BASED ON FIXTURE SCHEDULE AND SPECIFICATIONS FIXURE PROVIDED AND ANSI 136.41 STANDARD 7-PIN TWIST LOCK PHOTOCELL RECEPTACLE	FIXTURE PROVIDED WITH ALL MOUNTING HARDWARE.
B1	CAMPUS WALKWAY LUMINAIRE WITH ONE PIECE AND DUEL HEAD	NATURAL PAINT	1 - 35W LED 4K	0-10V INTEGRATED	35	DUAL-VOLT	LUMEC-MPTC-35W32LED4K-R-LE3 OR APPROVED EQUAL BASED ON FIXTURE SCHEDULE AND SPECIFICATIONS	FIXTURE PROVIDED WITH ALL MOUNTING HARDWARE.
C1	WEST CAMPUS WALKWAY LUMINAIRE LED RETOFIT KIT	NATURAL PAINT	1 - 55W LED 4K	0-10V INTEGRATED	55	277	REMPHOS TECHNOLOGIES: RPT-LEDBLOCK-100L-750 OR APPROVED EQUAL BASED ON FIXTURE SCHEDULE AND SPECIFICATIONS	
POLE	CAMPUS POLES	NATURAL PAINT					LUMEC-APR4F-12-LBC4C-TS	PROVIDE 14' POLES

FIXTURE SCHEDULES | NTS | 6



POLE MOUNTED DETAIL | NTS | 7

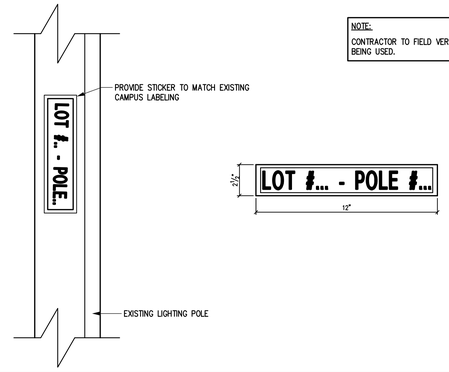
NOTE:
1. REINFORCED BOLT DOWN CONCRETE COVER. (IN TRAFFIC AREAS PROVIDE STEEL PLATE TRAFFIC BOLT DOWN COVER.)
2. PROVIDE 12" MINIMUM DEPTH OF CRUSHED ROCK OR PEA GRAVEL BELOW BOX FOR DRAINAGE.
3. PRECAST CONCRETE BOTTOMLESS PULL BOX. MINIMUM OUTSIDE DIMENSIONS 13"x19"x12" DEEP.
4. PROVIDE EXTENSIONS AS REQUIRED TO MEET FIELD CONDITIONS.
5. IDENTIFICATIONS PER SPECIFICATIONS.



SPECIAL NOTE:
DO NOT SPLICE CONDUCTORS IN UNDERGROUND PULL BOXES

PRECAST JUNCTION BOX | NTS | 4

NOTE:
CONTRACTOR TO FIELD VERIFY LIGHTING CIRCUITS BEING USED.



LIGHTING POLE CIRCUIT LABELING | NTS | 8

\- | NTS | 9

NEW FIXTURE MOUNTED CONTROL MODULE | NTS | 10

\- | NTS | 11

NEW FIXTURE MOUNTED CONTROL MODULE | NTS | 12

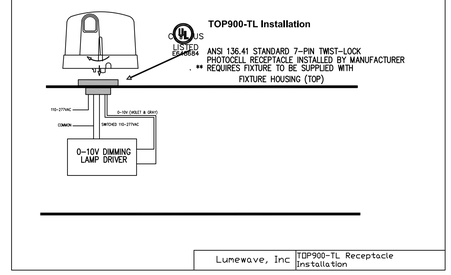
\- | NTS | 13

\- | NTS | 14

\- | NTS | 15

\- | NTS | 16

LUMEWAVE TOP900-TL TWIST LOCK WIRELESS CONTROL MODULE TO BE FIELD INSTALLED BY ELECTRICAL CONTRACTOR. ANSI 136.41 STANDARD 7-PIN RECEPTACLE TO BE PROVIDED BY LUMEWAVE TO PHILIPS GARDCO FOR INSTALLED IN THEIR ECO FORM FIXTURE PRIOR TO SHIPMENT OF FIXTURE TO THE JOB SITE.



Lumewave, Inc | TOP900-TL Receptacle Installation

REV	DATE	DESCRIPTION
1	08/08/2017	ADDENDUM 1

SCALE	NTS
KSG PROJECT NO.	12326
DESIGNED BY	AK
DRAWN BY	JA
CHECKED BY	RM
DATE	02.23.17

REGISTERED PROFESSIONAL ENGINEER RAZMIK MATHEVOSSIAN No. E-17055 9/30/2017 ELECTRICAL STATE OF CALIFORNIA

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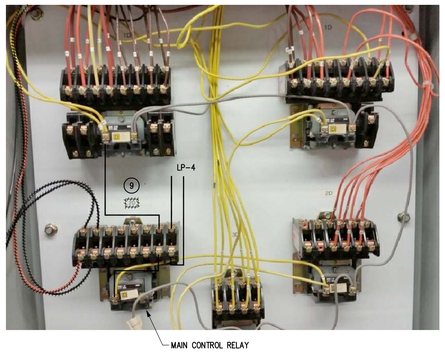
PROJECT NAME
AVC LED LIGHTING UPGRADE PHASE 4
ANTELOPE VALLEY
COLLEGE
LANCASTER, CA

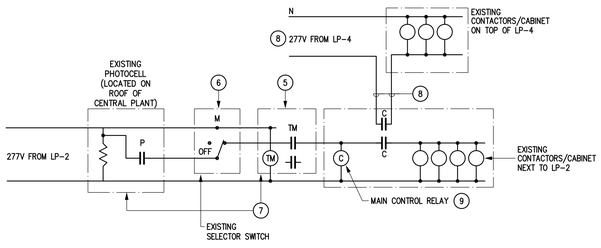
DRAWING TITLE
FIXTURE AND PANEL SCHEDULES

E-400

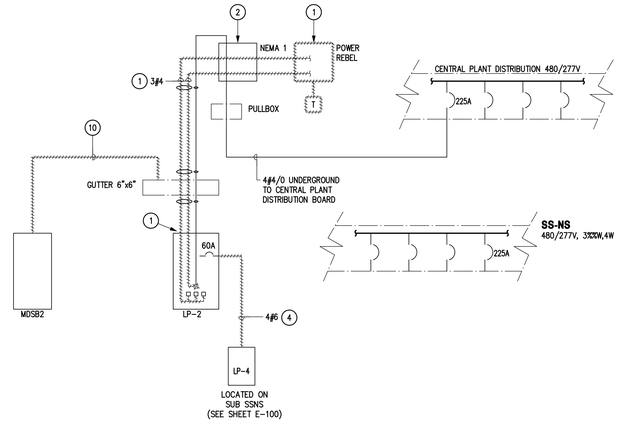


CONTACTOR CABINETS LP-2

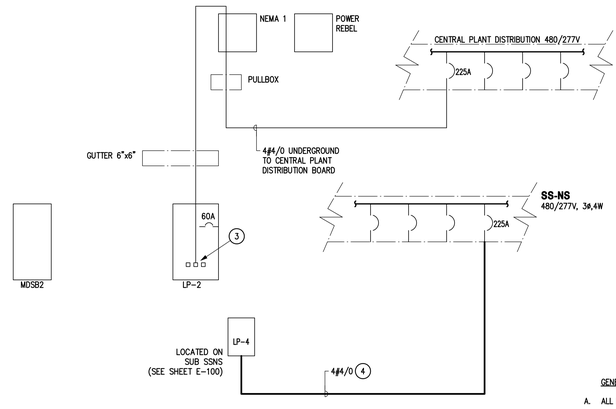
CONTACTOR CABINETS AND BYPASS SWITCH | NTS | 1



EXISTING LIGHTING CONTROL WIRING | NTS | 3



DEMOLITION CONDITION



NEW CONDITION

GENERAL NOTES

A. ALL EQUIPMENT ARE EXISTING UNLESS NOTED OTHERWSE.

SHEET NOTES

1. EXISTING POWER REBEL ASSOCIATED TRANSFORMER IS TO BE REMOVED. DISCONNECT AND REMOVE ALL WIRING INCLUDING CONTROL WIRING (NOT SHOWN) TO THE EXTENT REQUIRED.
2. REMOVE ANY CONDUIT WORK BETWEEN POWER REBEL AND THE EXISTING NEMA PULL BOX. PROVIDE KNOCKOUT SEAL FOR OPENINGS AS REQUIRED.
3. CONNECT EXISTING 4/0 CONDUCTORS DIRECTLY TO PANELBOARD MAIN LUGS. IN NEW CONDITIONS PANELBOARD WILL BE FED DIRECTLY FROM THE DISTRIBUTION PANELBOARD IN THE NEW CENTRAL PLANT. PROVIDE A BREAKER IDENTIFICATION PLATE MATCHING PANELBOARD ID AT THE DISTRIBUTION BOARD.
4. REMOVE EXISTING WIRING BETWEEN LP-2 PANELBOARD AND THE LP-4 PANELBOARD AT THE SS-NS SUBSTATION. PROVIDE NEW WIRING BETWEEN THE LP-4 AND THE EXISTING CIRCUIT BREAKER IDENTIFIED AS LP-4 IN THE SUBSTATION.
5. PROVIDE AND INSTALL A NEW 365-DAY ASTRONOMIC TIME CLOCK IN NEMA 3R ENCLOSURE IN PROXIMITY OF LP-2 PANELBOARD.
6. ONLY ONE PHOTO CELL AND BYPASS SWITCH IS TO BE FUNCTIONAL FOR CONTROL OF LIGHTING. REMOVE OBSOLETE SELECTOR SWITCHES AND SEAL ANY UNUSED OPENINGS.
7. EXISTING PHOTO CELL AND NEW TIMER ARE TO CONTROL LIGHTING CONTACTORS IN EXISTING CABINETS AT LP-2 AND LP-4.
8. TRACE AND IDENTIFY 277 CONTROL CIRCUIT FROM LP-4 PANEL AND PROVIDE FOR REQUIRED MODIFICATIONS AS SHOWN.
9. PROVIDE A WARING SIGN INSIDE CABINET ON TOP OF MAIN CONTROL RELAY READING: "WARNING TWO CIRCUITS FROM DIFFERENT SOURCES ARE CONTROLLED BY THIS CONTACTOR".
10. REMOVE EXISTING OBSOLETE WIRING.

SINGLE LINE DIAGRAM | NTS | 4

REV	DATE	DESCRIPTION
1	08/08/2017	ADDENDUM 1

SCALE	AS NOTED
KSG PROJECT NO.	12326
DESIGNED BY	AK
DRAWN BY	JA
CHECKED BY	RM
DATE	02.23.17

REGISTERED PROFESSIONAL ENGINEER RAMIN K. MATHEVOSIAN No. E-17015 9/30/2017 ELECTRICAL STATE OF CALIFORNIA

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Consulting Engineers
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PHONE: 818.240.5630 FAX: 818.240.5144

PROJECT NAME

AVC LED LIGHTING UPGRADE PHASE 4
ANTELOPE VALLEY COLLEGE
LANCASTER, CA

DRAWING TITLE

NORTH CENTRAL PLANT POWER REBEL REMOVEL

E-401