

LIGHTING AND APPLIANCE PANELBOARD SCHEDULE

PANEL NAME: CL TYPE: (EXISTING) CIRCUIT BREAKERS: BOLT ON PLUS ON 211 / 480 VOLTAGE 3 PH 4 W

ENGRAVED NAME TAGS BUS MATERIAL: ALUM BUS CU BUS GROUND: GROUND BUS ISOL GND BUS NEUTRAL: 100% 200% LUGS: MAIN SUB-FEED FEED-THROUGH MAIN BREAKER: A/FPS BUS A/FPS:

BRANCH BREAKERS

NOTES	ITEM	A/FPS	POLE	WIRE SIZE	CIR. NO.	LEFT PHASE LOAD			RIGHT PHASE LOAD			CIR. NO.	A/FPS	POLE	WIRE SIZE	ITEM	NOTES
						A	B	C	A	B	C						
1	LIGHTS	20	1	1	1							2	20	1	LIGHTS	1	
1	LIGHTS	20	1	3	1							4	20	1	LIGHTS	1	
1	LIGHTS	20	1	5	1							6	20	1	LIGHTS	1	
1	LIGHTS	20	1	7	1							8	20	1	LIGHTS	1	
1	EXTERIOR WALKWAY	20	2	8	1		1600					10	20	1	LIGHTS	1	
-	-	-	-	-	11				1600			12	20	1	NITE LIGHTS	1	
1	EXTERIOR WALKWAY	20	2	8	1		1000					14	20	1	EPERS LTS	1	
-	-	-	-	-	15							16	20	1	SPARE	1	
1	WALKWAY LIGHTS	20	1	17	1		1000					18	20	1	SPARE	1	
1	PARKING LOT	20	2	18	1							20	20	1	SPARE	1	
1	-	-	-	-	21							22	20	1	SPARE	1	
1	PARKING LOT	20	2	23	1							24	20	2	PERIPHERAL RD	1	
1	-	-	-	-	25							26	-	-	-	1	
1	DRIVEWAY LTS	20	2	27	1							28	20	2	PERIPHERAL RD	1	
1	-	-	-	-	24							30	-	-	-	1	
1	LIGHTS	20	1	31	1							32	45	3	TRANSFORMER 'C'	1	
1	EXISTING LOAD	20	1	33	1							34	-	-	-	1	
1	EXISTING LOAD	20	1	35	1							36	-	-	-	1	
1	SPARE WALKWAY CKT	20	2	8	1							38	20	1	SPARE	1	
-	-	-	-	-	34							40	20	1	-	1	
1	BLANK	50	1	41	1							42	20	1	-	1	

FRONT: <input type="checkbox"/> STANDARD	1000	2600	1600	0	0	0
<input type="checkbox"/> HINGED	1000	2600	1600	TOTAL		
<input type="checkbox"/> DOOR-IN-DOOR	4	4	6	A/FPS / PHASE		

MOUNTING: FLUSH SURFACE SURFACE W/ SKIRT ABOVE SURFACE W/ SKIRT BELOW

TVSS: NONE CATEGORY 'C' CATEGORY 'B' CATEGORY 'A'

NEMA RATINGS: NEMA 1 NEMA 3R NEMA 4X NEMA 12 STAINLESS STEEL

TOTAL CONNECTED LOAD: 5,200

SHORT CIRCUIT RATING: SERIES - RATED FULLY - RATED

_____ A/FPS R15 S111

REFER TO ONE-LINE DIAGRAM FOR FEEDER, CONDUIT AND CONDUCTOR SIZES

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						A	B	C	A	B	C						
1	EXISTING LOAD	20	1	1	1							2	20	1	EXISTING LOAD	1	
1	EXISTING LOAD	20	1	3	1							4	20	1	SPARE	1	
1	EXISTING LOAD	20	1	5	1							6	20	1	SPARE	1	
1	EXISTING LOAD	20	1	7	1							8	20	1	SPARE	1	
1	EXISTING LOAD	20	1	9	1							10	20	1	SPARE	1	
1	SPARE	20	1	11	1							12	20	1	EXISTING LOAD	1	
1	EXISTING LOAD	20	1	13	1							14	20	1	SPARE	1	
1	EXISTING LOAD	20	1	15	1							16	20	1	SPARE	1	
1	EXISTING LOAD	20	1	17	1							18	20	1	SPARE	1	
1	SPARE	20	1	19	1							20	20	1	SPARE	1	
1	SPARE	20	1	21	1							22	20	2	8	SPARE WALKWAY CKT	1
1	SPARE	20	1	23	1							24	-	-	-	-	1
1	EXISTING LOAD	20	1	25	1				600			26	20	2	8	SITE LIGHTING	1
1	EXISTING LOAD	20	1	27	1					600		28	-	-	-	-	1
1	EXISTING LOAD	20	1	29	1							30	20	1	-	SPARE	1

FRONT: <input type="checkbox"/> STANDARD	0	0	0	600	600	0
<input type="checkbox"/> HINGED	600	600	0	TOTAL		
<input type="checkbox"/> DOOR-IN-DOOR	2	2	0	A/FPS / PHASE		

MOUNTING: FLUSH SURFACE SURFACE W/ SKIRT ABOVE SURFACE W/ SKIRT BELOW

TVSS: NONE CATEGORY 'C' CATEGORY 'B' CATEGORY 'A'

NEMA RATINGS: NEMA 1 NEMA 3R NEMA 4X NEMA 12 STAINLESS STEEL

TOTAL CONNECTED LOAD: 1,200

SHORT CIRCUIT RATING: SERIES - RATED FULLY - RATED

_____ A/FPS R15 S111

REFER TO ONE-LINE DIAGRAM FOR FEEDER, CONDUIT AND CONDUCTOR SIZES

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	SERIES	DESCRIPTION	VOLTAGE	LOAD (VA)	MOUNTING	NUMBER	LAMP				REMARKS
								TYPE	WATTS	COLOR (KELVIN)	CRI	
A3	VISIONAIRE	A/E-2 (HEAD) SNTS (POLE)	SINGLE HEAD SHOE BOX LUMINAIRE UL LISTED FOR WET LOCATIONS IES DISTRIBUTION TYPE: III CUT OFF: NONE LUMINAIRE COLOR: SCBA OPTIONS: NONE STEEL POLE HEIGHT: 12 SHAPE: STRAIGHT SQUARE WIND RATING: 100 MPH WIND LOAD WITH I3 GUST FACTOR POLE COLOR: SCBA OPTIONS: NONE	480	240	POLE TOP CONCRETE BASE	1	PULSE START METAL HALIDE BULB: BT28 BASE: TROJUL SCREW E31 VERTICAL ORIENTATION ONLY COATED	115	4200	65	CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING AND VERIFY THAT THE POLES SPECIFIED DO NOT CONFLICT WITH THE EXISTING TREES ALONG THE WALKWAYS
A3	VISIONAIRE	A/E-2 (HEAD) SNTS (POLE)	SINGLE HEAD SHOE BOX LUMINAIRE UL LISTED FOR WET LOCATIONS IES DISTRIBUTION TYPE: III CUT OFF: NONE LUMINAIRE COLOR: SCBA OPTIONS: NONE STEEL POLE HEIGHT: 16 SHAPE: STRAIGHT SQUARE WIND RATING: 100 MPH WIND LOAD WITH I3 GUST FACTOR POLE COLOR: SCBA OPTIONS: NONE	480	240	POLE TOP CONCRETE BASE	1	PULSE START METAL HALIDE BULB: BT28 BASE: TROJUL SCREW E31 VERTICAL ORIENTATION ONLY COATED	115	4200	65	CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING AND VERIFY THAT THE POLES SPECIFIED DO NOT CONFLICT WITH THE EXISTING TREES ALONG THE WALKWAYS

LIGHT FIXTURE ABBREVIATION SCHEDULE

NOTE: NOT ALL ABBREVIATIONS WILL NECESSARILY BE USED.

- A.F.F. ABOVE FINISHED FLOOR
- WALL@CLG. WALL MOUNT AT CORNER OF WALL AND CEILING
- CCBA CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT
- SCBA STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT
- CFBA CUSTOM FINISH AS SELECTED BY THE ARCHITECT
- SFBA STANDARD FINISH AS SELECTED BY THE ARCHITECT
- MOD MODIFY STANDARD LIGHT FIXTURE AS INDICATED

LIGHT FIXTURE GENERAL NOTES

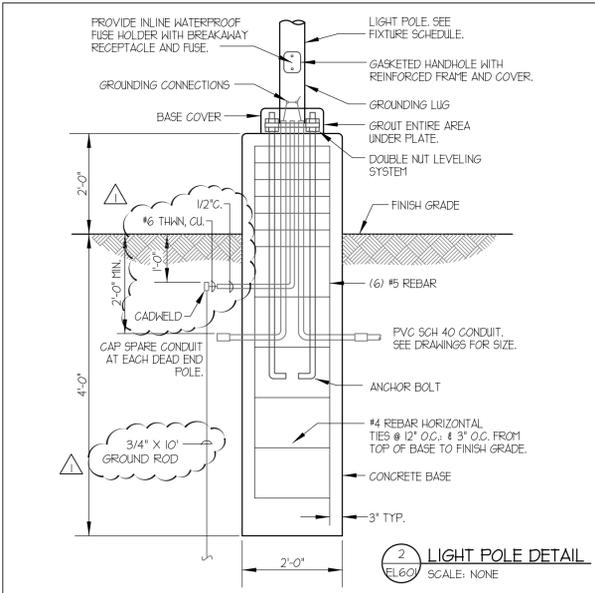
1. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO BIDDING.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
3. REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, BALLAST, AND LAMP REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR LOUVER REQUIREMENTS (IF ANY).
5. CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.

BIDDING REQUIREMENTS

1. BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPROVED BY ADDENDUM.
2. PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS NOT ALLOWED.
3. WHEN ONLY ONE PRODUCT IS APPROVED FOR BIDDING, THE PRICE FOR THAT ITEM SHALL BE BROKEN OUT SEPARATELY TO VARIOUS DISTRIBUTORS AND/OR CONTRACTORS.
4. WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, THE DESCRIPTION SHALL GOVERN.

LIGHT FIXTURE PRIOR APPROVAL REQUIREMENTS

1. PRIOR APPROVAL IS REQUIRED BEFORE BIDDING THIS PROJECT.
2. PRIOR APPROVALS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) EIGHT WORKING DAYS BEFORE THE BID. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.
3. PRIOR APPROVALS SHALL BE SIGNED BY A PRINCIPAL OF THE SUBMITTING ORGANIZATION STATING THAT THEY HAVE PREPARED AND/OR REVIEWED THE SUBMITTAL AND THAT THE PRODUCTS PROPOSED ARE EQUIVALENT TO THOSE SPECIFIED. ANY EXCEPTIONS SHALL BE SO NOTED.
4. ITEMS THAT ARE SUBMITTED AND HAVE BEEN APPROVED WILL BE LISTED IN THE ADDENDUM(S). VERBAL APPROVAL WILL NOT BE GIVEN ON ANY ITEM.
5. IT IS NOT THE RESPONSIBILITY OF THE ELECTRICAL ENGINEER TO NOTIFY THE SUBMITTING PARTY OF ERRORS IN THE SUBMITTAL. NOTIFICATION OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDENDUM(S) MAY NOT BE GIVEN.
6. PRIOR APPROVALS SHALL CONSIST OF TWO SETS OF CUT SHEETS DESCRIBING THE PRODUCTS BEING SUBMITTED AS EQUIVALENTS. FAXES ARE NOT ACCEPTABLE. ALL SPECIFICATION INFORMATION SHALL BE CLEARLY MARKED, WITH NON-APPLICABLE INFORMATION CROSSED OUT. COMPLETE PHOTOMETRIC DATA SHALL BE PROVIDED. PRODUCTS WITHOUT PHOTOMETRIC DATA WILL BE NOT BE APPROVED.



DATE	10-15-08
REVISIONS	
NO.	

UTAH VALLEY UNIVERSITY
SITE LIGHTING UPGRADE

**LIGHTING FIXTURE SCHEDULE,
DETAILS & PANEL BOARD SCHEDULES**

DRAWN BY: BRT
DESIGNED BY: DMN
CHECKED BY: RYV

DATE: 10/06/08
FILENAME: EL601.DWG

PROJECT: 2008-117

SHEET

EL601



ENVISION
ENGINEERING

Direction. Then Velocity.

ENVISION MEMO

Memo

To:	Fred Christensen
From:	Ryan Van Voast, EE
CC:	Brent Halladay; Mike Ambre; Stephen Hewlett
Date:	October 13, 2008
Re:	UVU site lighting upgrade plan review comments

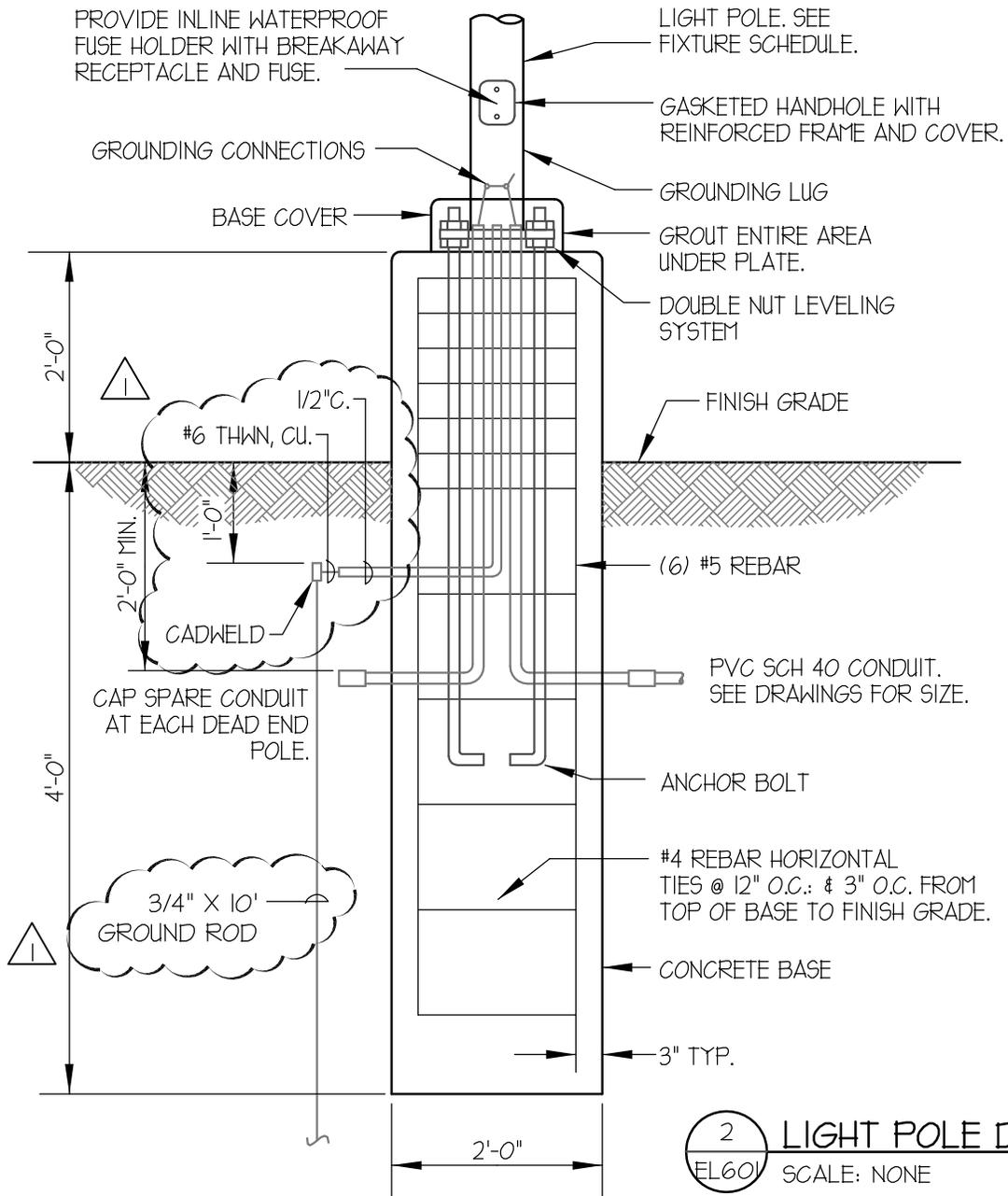
UVU site lighting plan review comments:

Comment:

1. Detail 2 on sheet EL601 indicates that the light poles are to be provided with a grounding system. Please provide the size of the grounding conductor and ground rod.

Response:

Provide a # 6 THWN CU Conductor cad welded to a 3/4 inch by 10' ground rod.
Refer to the attached ESD for more information.



PROJECT:
UTAH VALLEY
UNIVERSITY SITE
LIGHTING UPGRADE

ORIGINAL SHEET NO:
EL601

SHEET TITLE:
LIGHTING FIXTURE
SCHEDULE, DETAILS &
PANEL BOARD
SCHEDULES

DATE: 10-13-08

BY: BRT

SCALE: NONE

JOB NO: 08-117

REVISION
1

SHEET:
ESD-1