CITY OF ALBUQUERQUE, NEW MEXICO **DEPARTMENT OF MUNICIPAL DEVELOPMENT**

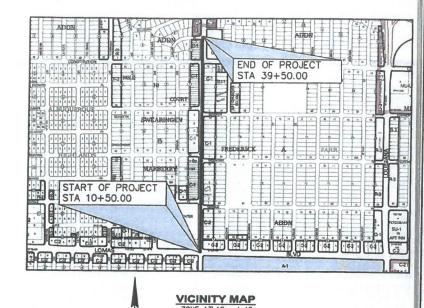
CONSTRUCTION PLANS FOR

SAN PEDRO DRIVE LIGHTING PLAN LOMAS BLVD. TO CONSTITUTION AVE.



STA 10+50.00 TO STA 39+50.00 **COA PROJECT NO. 552783**





PROJECT PURPOSE

THIS PROJECT INTENDS TO PROVIDE STREET AND PEDESTRIAN LIGHTING THROUGH THE USE OF DECORATIVE COMBO AND PEDESTRIAN LIGHT POLES PORTIONS OF SIDEWALK WILL BE REPLACED WHERE NEW LIGHT POLE FOUNDATIONS ARE INSTALLED.

INDEX OF SHEETS

- 1-1 COVER SHEET
- 1-2 GENERAL NOTES & SYMBOL LEGEND
- 3-1 HORIZONTAL CONTROL LAYOUT
- 6-1 LIGHTING GENERAL NOTES
- 6-2 THRU 6-5 LIGHTING PLAN
- 6-6 THRU 6-7 FOUNDATION AND BASE DETAILS
- 6-8 DECORATIVE STREET LIGHTS

I, Jonathon N. Vigil, PE No. 23674 NM hereby certify that

these as built plans, office plotting, or computations were done by myself or personnel under my direct supervision. It is correct to the best of my knowledge and belief.

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- THE CONTRACTOR SHALL PROVIDE INGRESS AND EGRESS TO LOCAL BUSINESSES AND RESIDENCES FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL ADVISE OF AND SCHEDULE ACCESS CLOSURES, AT LEAST 24 HOURS IN ADVANCE, WITH PROPERTY OWNERS AND THE CONSTRUCTION PROJECT MANAGER.
- 3. SEVEN (7) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIMISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONSTRUCTION SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924–3400) PRIOR TO OCCUPYING AN INTERSECTION.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT N.M. ONE-CALL SYSTEM, (505) 260-1990, FOR LOCATION OF EXISTING UTILITIES.
- CRITICAL INTERSECTION WORK SHALL NOT START UNTIL THE CONTRACTOR HAS ALL MATERIAL, EQUIPMENT, AND NECESSARY PERSONNEL ON-SITE. TRAFFIC CONTROL DEVICES SHALL NOT BE PLACED PREMATURELY.
- 6. PARKING OF CONSTRUCTION VEHICLES ON PRIVATE PROPERTY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND IS PROHIBITED WITHIN THE CLEAR ZONE DAY OR NIGHT.
- 7. THE CONSTRUCTION CLEAR ZONE FOR THIS PROJECT IS 15 FEET FROM THE EDGE OF DRIVING LANE. THE CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIAL WITHIN THE CONSTRUCTION CLEAR ZONE UNLESS THE EQUIPMENT OR MATERIAL IS PROPERLY SHIELDED UTILIZING CURRENT SAFETY DESIGN AND INSTALLATION METHODS. THE SAFETY DESIGN FOR SHIELDING SHALL BE PROVIDED BY THE CONTRACTOR AND MUST BE APPROVED BY THE PROJECT MANAGER BEFORE IMPLEMENTING. THIS WORK, INCLUDING DESIGN, INSTALLATION, AND REMOVAL OF THE SHIELDING, SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO ADDITIONAL PAYMENT WILL BE MADE.
- 8. THE CONTRACTOR SHALL NOTIFY THE ALBUQUERQUE TRAFFIC ENGINEERING DIVISION (857-8680) THREE (3)
 WORKING DAYS IN ADVANCE OF ANY WORK REQUIRED REGARDING ALL EXISTING REGULATORY SIGNS AND SIGNALS
 THAT NEED TO BE REMOVED, RELOCATED, OR REINSTALLED.
- WHEN EXISTING TRAFFIC SIGNALS ARE TURNED OFF, THE CONTRACTOR SHALL HAVE AN OFF-DUTY POLICE OFFICER DIRECT TRAFFIC — CONTACT APD OFF DUTY OVERTIME AT 768-2380. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO ADDITIONAL PAYMENT WILL BE MADE.
- 10. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE PROJECT MANAGER AND SHALL NOTIFY THE PROJECT MANAGER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT THE CONTRACTOR'S EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- 11. THE CONTRACTOR WILL BE REQUIRED TO CONFINE THEIR WORK WITHIN THE CONSTRUCTION LIMITS AND/OR RIGHT OF WAY TO PRESERVE EXISTING VEGETATION AND PRIVATE PROPERTY. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAY OPENINGS, DOORWAYS/ENTRANCES, OR DESIGNATED TRAFFIC LANES.
- 12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT BUILDING STRUCTURES ADJACENT TO THE PROJECT NOT BE DAMAGED DUE TO ANY CONSTRUCTION ACTIVITIES. DAMAGE CAUSED TO ANY BUILDING STRUCTURE WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING ALL COSTS INCURRED IN RESTORING/REPAIRING SAID DAMAGE.
- 13. THE CONTRACTOR SHALL SUBMIT A PROPOSED WORK PLAN FOR PEDESTRIAN IMPROVEMENTS TO THE PROJECT MANAGER FOR REVIEW AND APPROVAL PRIOR TO INITIATING ANY CONSTRUCTION WORK AFFECTING PEDESTRIANS. THIS PLAN SHALL INCLUDE THE METHOD PROPOSED TO MAINTAIN PEDESTRIAN ACCESS TO BUSINESSES, SCHOOLS, HOSPITALS, BUILDINGS, ETC. THE CONTRACTOR SHALL MEET ADA ACCESSIBILITY REQUIREMENTS. THIS WORK IS CONSIDERED AS INCLUDED IN BID ITEM 19.010.
- 14. THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THESE PLANS SHALL BE KEPT CURRENT, WITHIN TWO WEEKS, AT ALL TIMES AND SHALL BE SUBJECT TO REVIEW BY THE PROJECT MANAGER THROUGHOUT THE PROJECT AND WILL BE REVISED BY THE PROJECT MANAGER FOR ACCURACY AND COMPLETENESS AT LEAST ONCE EVERY 30 DAYS. THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED TO THE PROJECT MANAGER AND THE CITY. THIS WORK IS CONSIDERED AS INCLUDED IN BID ITEM 4.010.
- 15. THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF A 35 TON MAXIMUM NON-VIBRATORY ROLLER TO OBTAIN THE REQUIRED COMPACTION IN PAYEMENT STRUCTURE, ROADWAY BACKFILL, EMBANKMENT, AND SUBGRADES IN URBAN AREAS WHERE THE USE OF HEAVIER EQUIPMENT COULD DAMAGE UNDERGROUND UTILITIES OR OTHER PERMANENT STRUCTURES, OR AS DIRECTED BY THE PROJECT MANAGER.
- 16. MANHOLE RIM ELEVATIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND WILL VARY WITH THE FINISHED PAVEMENT ELEVATIONS.
- 17. ALL RADII OF CURB RETURNS ARE SHOWN TO THE FACE OF CURB AND, UNLESS OTHERWISE NOTED, ALL OFFSETS AND DIMENSIONS ARE TO THE FACE OF CURB. MATCH FLOWLINES OF GUTTERS WHEN CONNECTING NEW CURB AND GUTTER WITH EXISTING CURB AND GUTTER.
- 18. WHERE PULL BOXES ABUT THE BACK OF CURB OR ARE LOCATED IN A CONCRETE PAVED AREA, PROVIDE 3/4" EXPANSION MATERIAL AROUND THE PULL BOX. ALL PULL BOXES TO BE FLUSH WITH SURFACE OF CONCRETE.
- 19. WHEN ABUTTING NEW PAVEMENT TO EXISTING, CONTRACTOR SHALL SAW CUT, TO FULL PAVEMENT DEPTH, THE EXISTING PAVEMENT TO A NEAT VERTICAL STRAIGHT LINE AS REQUIRED TO REMOVE ANY BROKEN OR CRACKED PAVEMENT AND MATCH NEW TO EXISTING.
- 20. THE CONTRACTOR SHALL VERIFY ALL EXISTING FIRE HYDRANT FLANGES, PADS, VALVE BOXES, MANHOLE RIMS AND TOP OF PIPE ELEVATIONS IN THE FIELD. ELEVATIONS SHALL BE ADJUSTED TO COMPLY WITH THE REQUIREMENTS OF THE STANDARD CITY DETAILS.
- 21. WHEN APPEARING IN ANY PORTION OF THIS CONTRACT, THE WORDS "PLANT MIX BITUMINOUS PAVEMENT" (PMBP) WILL HAVE THE SAME MEANING AS AND MAY BE USED INTERCHANGEABLY WITH THE WORDS "ASPHALT CONCRETE".
- 22. THE CONTRACTOR SHALL WARP SLOPES WHERE NECESSARY TO STAY WITHIN THE RIGHT OF WAY OR CONSTRUCTION EASEMENT LIMITS. THE WORK SHALL BE AS DIRECTED BY THE PROJECT MANAGER, PROPOSED IMPROVEMENTS & RELATED GRADING SHALL BE MAINTAINED WITHIN THE RIGHT OF WAY OR CONSTRUCTION EASEMENT LIMITS.
- 23. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT MARKINGS, CURB AND GUTTER, DRIVEPADS, HANDICAP RAMPS, SIGNAGE, TRAFFIC SIGNALS, AND SIDEWALK DURING CONSTRUCTION APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS, AND SHALL REMOVE AND REPLACE AS PER COA STANDARDS, AS APPLICABLE, AT THEIR OWN EXPENSE.
- 24. WHEN REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK IS REQUIRED, REMOVE TO NEAREST JOINT.

- 25. ALL CONSTRUCTION DEBRIS, SPOIL AND NON-SALVAGEABLE ITEMS BECOME THE PROPERTY OF THE CONTRACTOR AND PROPER DISPOSAL OF THESE ITEMS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY HAUL COSTS ASSOCIATED WITH THIS WORK IS CONSIDERED INCIDENTAL TO THE PROJECT.
- 26. CITY OWNED STREET LIGHT ITEMS, SIGNAL ITEMS, AND SIGNING REMOVED FROM THIS PROJECT ARE TO BE HAULED AND STOCKPILED AT THE CITY OF ALBUQUERQUE PINO YARDS AS DIRECTED BY THE PROJECT MANAGER. HAUL OF SUCH MATERIAL SHALL BE PERFORMED DURING NORMAL WORKING HOURS AS DIRECTED BY THE PROJECT MANAGER. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR EACH SALVAGE ITEM.
- ANY EARTHWORK HAUL ON THIS PROJECT WILL BE CONSIDERED AS INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT WILL BE MADE THEREFOR.
- 28. STRUCTURAL FILL FOR EMBANKMENTS, PAVEMENTS, AND STRUCTURES SHALL BE PLACED IN LIFTS THAT, FOLLOWING COMPACTION, DO NOT EXCEED 8". FILLS SHALL BE COMPACTED AT MOISTURE CONTENTS WITHIN +/- 2% OF OPTIMUM MOISTURE CONTENT. SELECT STRUCTURAL FILL AROUND CULVERTS AND OTHER STRUCTURES SHALL BE COMPACTED, USING HAND OPERATED COMPACTION EQUIPMENT AND IN LIFTS NOT EXCEEDING 4", TO THE DENSITY AND MOISTURE CONTENT SPECIFIED ABOVE. THE UPPER 12" OF ROADBEDS SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY (ASTM 1557).
- 29. ALL EXISTING UTILITIES SHOWN HEREIN WERE TAKEN FROM RECORD DRAWINGS, FIELD SURVEYS, C.O.A. SYSTEMS UTILITIES MAPS AND INFORMATION PROVIDED BY THE UTILITY OWNERS AND ARE APPROXIMATE. IT WILL BE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS AND TYPE OF EXISTING UTILITIES TO BE ADJUSTED OR EXTENDED AND TO PROVIDE PROTECTION FOR ALL UTILITIES WITHIN THE CONSTRUCTION AREA. THE CONTRACTOR WILL BE RESPONSIBLE FOR EXPLORATORY TRENCHING AND EXPOSING OF EXISTING UTILITIES (POTHOLING) TO CONFIRM SIZE, LOCATION, ETC. THIS WORK SHALL BE CONSIDERED AS INCIDENTAL TO THE PROJECT.
- 30. CONTRACTOR IS TO EXERCISE DUE CARE TO AVOID DISTURBING ANY EXISTING UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO PREVENT ANY SERVICE DISRUPTION THAT MIGHT RESULT FROM PROJECT CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AND PRESERVE UTILITY EQUIPMENT AFFECTED BY PROJECT CONSTRUCTION. SHOULD THE CONTRACTOR BREAK AN EXISTING UTILITY LINE DURING CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL BE RESPONSIBLE FOR UTILITY REPAIR COSTS. THIS WORK SHALL BE CONSIDERED AS INCIDENTAL TO THE PROJECT.
- 31. THE CONTRACTOR IS HEREBY ADVISED THAT UTILITY RELOCATION WORK AND/OR NEW CONSTRUCTION OF UTILITIES WILL HAVE TO BE PERFORMED CONCURRENT WITH CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE FOR UTILITY WORK IN CONJUNCTION WITH PROJECT CONSTRUCTION OPERATIONS AND SHALL BE REQUIRED TO COORDINATE THE SCHEDULING OF WORK WITH THE RESPECTIVE UTILITY OWNERS. A LIST CONTACT NAMES IS PROVIDED ON THIS SHEET. A UTILITY CONCRIDINATION MEETING SHALL BE SET UP BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANY CONSTRUCTION ACTIVITY. COORDINATION OF UTILITY RELOCATION/NEW CONSTRUCTION SHALL BE DETAILED AT THIS MEETING.
- 32. THE CONTRACTOR SHALL NOTIFY THE LOCAL FIRE DEPARTMENT AT LEAST TWO (2) WORKING DAYS IN ADVANCE OF WHEN FIRE HYDRANTS WILL BE TAKEN OUT OF SERVICE AND RETURNED TO SERVICE.
- 33. THE CONTRACTOR SHALL ADJUST TO GRADE, ALL WATER VALVE BOXES, SANITARY SEWER MANHOLES, AND STORM DRAIN MANHOLES WHICH MAY BE AFFECTED BY THIS CONTRACT.
- 34. SHOULD NON-COPPER WATER SERVICES BE ENCOUNTERED DURING CONSTRUCTION, CONTRACTOR SHALL REPLACE ENTIRE SERVICE LINE FROM MAIN TO METER WITH SAME SIZE COPPER TUBING. NO SPLICES ARE ALLOWED IN SERVICE LINE.
- 35. WATER SERVICE LINES MUST BE REPLACED FROM MAIN TO METER WHEN RELOCATION OF WATER METER REQUIRES EXTENSION OF THE SERVICE LINE. PAYMENT FOR THIS WORK IS CONSIDERED INCLUDED IN THE COST OF THE WATER METER RELOCATION AND NO ADDITIONAL PAYMENT WILL BE MADE THEREFOR. NO SPLICES ARE ALLOWED IN SERVICE LINE.
- 36. RELOCATION OF WATER METER BOXES SHALL REQUIRE NEW METER BOXES. OLD METER BOXES SHALL NOT BE REUSED.
- 37. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
- 38. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF DEBRIS, INCLUDING BUT NOT LIMITED TO HAZARDOUS WASTE AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF SUCH MATERIALS.
- 39. THE CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE AND SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY. THIS WORK IS CONSIDERED INCIDENTAL TO THE PROJECT.
- 40. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE CITY.
- 41. STRUCTURES SHALL BE CLEAN AT THE TIME OF FINAL PROJECT ACCEPTANCE. THIS WORK WILL BE CONSIDERED AS INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.
- 42. THE CONTRACTOR SHALL COORDINATE WITH THE WATER AUTHORITY SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING SHUTOFF OF WELL COLLECTORS, TRANSMISSION LINES, OR FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK, ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT http://abcwug.org/Water_Shut_Off_and_Turn_on_Procedures.ospx
- 43. THE SCALES SHOWN ON THE SHEETS OF THIS PLAN SET ARE FOR FULL SIZE (22"X34") PLANS. THE SCALE FOR HALF SIZE PLAN SETS (11"X17") SHOULD BE ADJUSTED ACCORDINGLY.
- 44. CONTRACTOR TO SUBMIT WATER AUTHORITY ADMINISTRATIVE INSTRUCTION NO. 9 TO THE WATER AUTHORITY PRIOR TO PERFORMING WORK ON OR NEAR THE SAN JUAN CHAMA TRANSMISSION LINES/INFRASTRUCTURE. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- 45. TWO WEEKS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE TRANSIT DEPARTMENT OF ANY IMPACT THE PROPOSED PROJECT WILL HAVE ON THE TRANSIT SYSTEM SUCH AS CAUSING A DETOUR, OR CAUSING THE CLOSURE OR RELOCATION OF A BUS STOP. CONTACT DOUGLASS GOFF, OFFICE PHONE 505.724.3137, CELL PHONE 505.206.0151, EMAIL ADDRESS dgoff@cabq.gov.

SYMBOL LEGEND: ELECTRICAL, TRAFFIC LIGHT POLE W/MAST ARM DATE DATE (SB) ELECTRICAL, TRAFFIC JUNCTION BOX $\dot{\alpha}$ ELECTRICAL, LIGHT POLF (E) ELECTRICAL, METER ELECTRICAL, POWER POLE ELECTRICAL, TRAFFIC SIGNAL POLE \rightarrow ELECTRICAL, GUY WIRE E ELECTRICAL, PEDESTAL Ø WATER, FIRE HYDRANT [S(c)3] WATER, SPRINKLER CONTROL BOX 0 WATER, METER W WATER. VALVE SPHI SANITARY, MANHOLF 60 SANITARY, CLEANOUT STPHT STORM, MANHOLE STORM, CATCH BASIN UNKNOWN, MANHOLE SITE, SIGN SITE, BILLBOARD SITE, POST SITE, TREE UTILITY, TELEPHONE BOX FO FIBER OPTIC LINE -OHE---- OVERHEAD FLECTRIC LINE - GAS LINE DRIVEWAYS WILSON &COMPANY CITY OF ALBUQUEROU DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION SAN PEDRO DRIVE LIGHTING PLAN GENERAL NOTES & SYMBOL LEGEND City Engineer Approval JAN 1 2 2017 JAN 1 2 2017

City Project No

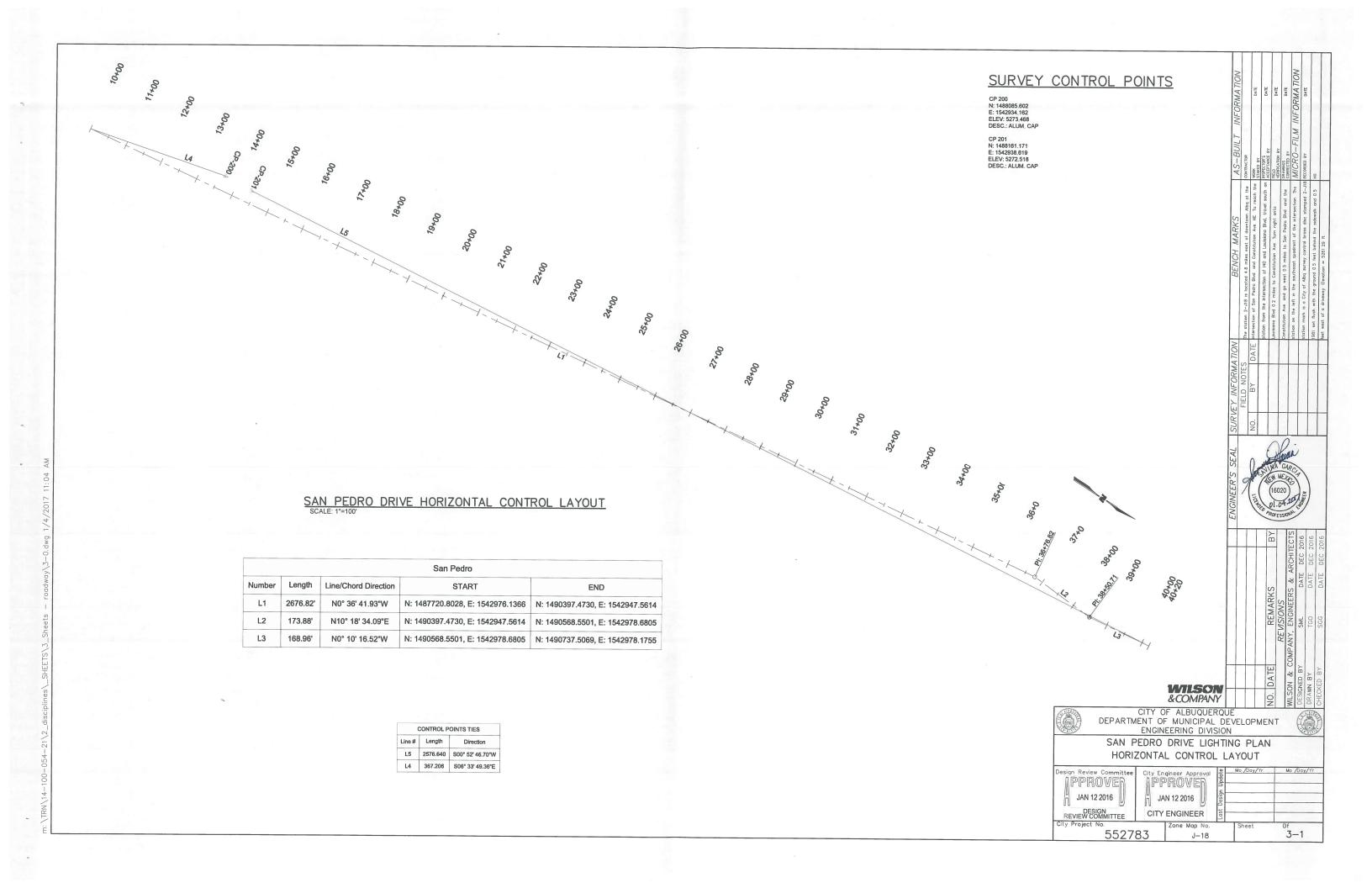
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LIGHTING GENERAL NOTES

- 1. LOCATIONS OF CONDUIT, FOUNDATIONS, PULL BOXES, AND CONTROL CABINETS SHOWN ON THE PLANS ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD TO MAXIMIZE CLEAR SPACE AVAILABLE FOR PEDESTRIANS AND WHEELCHAIRS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. THE CONTRACTOR SHALL MEET WITH THE PROJECT MANAGER IN THE FIELD AT ALL LOCATIONS TO SPOT EQUIPMENT BEFORE BEGINNING THE WORK. ALL SUCH EQUIPMENT SHALL BE INSTALLED WITHIN THE RIGHT OF WAY.
- 2. ALL WIRE ON THIS PROJECT SHALL BE COPPER ONLY.
- 3. LIGHT STANDARDS SHALL HAVE BREAKAWAY FEATURES.
- 4. ALL ROADWAY, LIGHTING FIXTURES AND CIRCUITS ON THIS PROJECT SHALL BE 240 VOLTS.
- ALL PULL BOXES INSTALLED FOR ROADWAY, OVERHEAD SIGN STRUCTURES, OR PEDESTRIAN LIGHTING SHALL BE STANDARD SIZE.
- CONTRACTOR SHALL REMOVE EXISTING CONDUITS AND PULL BOXES THROUGHOUT THE PROJECT AS DIRECTED BY THE PROJECT MANAGER.
- 7. REWIRING OF EXISTING LUMINAIRES TO REMAIN, TO BE REMOVED AND RESET, AND CONNECTIONS TO NEW CIRCUITS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- 8. EACH TIME A ROADWAY LUMINAIRE IS TURNED ON OR OFF THE CONTRACTOR SHALL COORDINATE WITH THE FOLLOWING REPRESENTATIVES:

 PUBLIC SERVICE CO. OF NEW MEXICO JUAN LOPEZ CORONA 505—241—0538 CITY OF ALBUQUERQUE TRAFFIC ENGINEERING 505—857—8689

POWER SHALL NEITHER BE TURNED ON OR OFF UNTIL RESPONSIBLE PARTIES FOR EACH LIGHTING SYSTEM HAVE BEEN NOTIFIED.

- 9. RESPONSIBILITY AND MAINTENANCE OF LIGHTING SYSTEMS INSTALLED AS PART OF THIS PROJECT SHALL BE AS FOLLOWS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND COST OF ENERGIZNG ALL LIGHTING SYSTEM INCLUDING SERVICE METERS, UNTIL AFTER AT LEAST 30 DAYS OF SATISFACTORY OPERATION AND FINAL ACCEPTANCE BY CITY.
- 10. SEE COA STD. DWG 2550 FOR ELECTRICAL PULL BOX DETAILS.
- 11. ANCHOR BOLTS SHALL BE CONSIDERED INCIDENTAL TO COST OF THE POLE.
- 12. LIGHTING STANDARDS SHALL BE LOCATED PER THE STATION AND OFFSET CALLED FOR ON THE PLANS.
- 13. LIGHTS NEAR EXISTING OVERHEAD TRANSMISSION LINES MUST MAINTAIN A 6' VERTICAL CLEARANCE AND/OR A 6' HORIZONTAL CLEARANCE FROM CLOSEST PHASE CONDUCTOR. THE LOCAL POWER COMPANY WILL ASSIST IN MEASUREMENT AND DETERMINATION OF CLEARANCE.
- 14. ALL FUSES IN THE FUSED QUICK DISCONNECT SPLICE CONNECTOR LOCATED IN EACH DECORATIVE LUMINAIRE POLE BASE, SHALL BE A 5 AMP "SLO BLOW" OR TIME DELAY TYPE.
- 15. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL TRANSVERSE AND LONGITUDINAL UTILITY LINES BEFORE EXCAVATION TO PLACE ELECTRIC CONDUIT.

LIGHTING INCIDENTAL ITEMS

- 1. ANCHOR BOLTS FOR FOUNDATIONS.
- 2. GROUND RODS FOR FOUNDATIONS.
- 3. UNIVERSAL SUPPORT BRACKETS FOR SERVICE RISERS.
- CONCRETE FOUNDATION FOR LIGHTING CONTROL CABINETS INCLUDING EXCAVATION, BACKFILL, CONCRETE, GROUNDRODS, AND ANCHOR BOLTS.
- REMOVAL OF EXISTING PULL BOXES, CONDUIT, AND WIRING TO BE ABANDONED OR DISCONNECTED UNDER THIS PROJECT.
- REMOVAL, SALVAGE AND TRANSPORT OF CITY OWNED POLES AND LUMINARIES
- 7. CONDUIT AND WIRE BETWEEN SERVICE RISER AND METER PEDESTAL/LIGHTING CONTROL.
- 8. ALL ELECTRICAL ENERGY COSTS UNTIL ACCEPTANCE BY CITY.
- 9. MAKEUP KIT INCLUDING FUSE AND #10 WIRES TO THE LUMINAIRE.
- 10. ALL WRING CONNECTORS INCLUDING "GEL FILLED" WIRE NUTS FOR WATER TIGHT CONNECTIONS

		LUMINAIRE AS INDICATED	
0-0	¤⊸	PEDESTRAIN DECORATIVE LIGHTING WITH LUMINAIRE AS INDICATED	
	THERMAL REGION ARREST REPORTER	CONDUIT RUN	
		PULL BOX	
	J	JUNCTION BOX	
•	8	SERVICE POLE WITH SERVICE RISER	
	LC	LIGHTING CONTROL CABINET	
		HIGH MAST LIGHTING	
.	9	ILLUMINATED BOLLARD	
	LUMINAIRE	E NUMBER	
CIRCUIT —/ NUMBER	DEC00-00	TYPE OF LAMP (LED) TYPE OF DISTRIBUTION WATTAGE	
		- ARM LENGTH (IN)	

DECORATIVE POLE

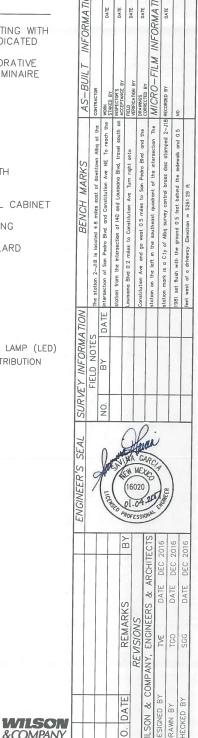
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DECORATIVE LIGHTING WITH

LIGHTING LEGEND

EXISTING

NEW



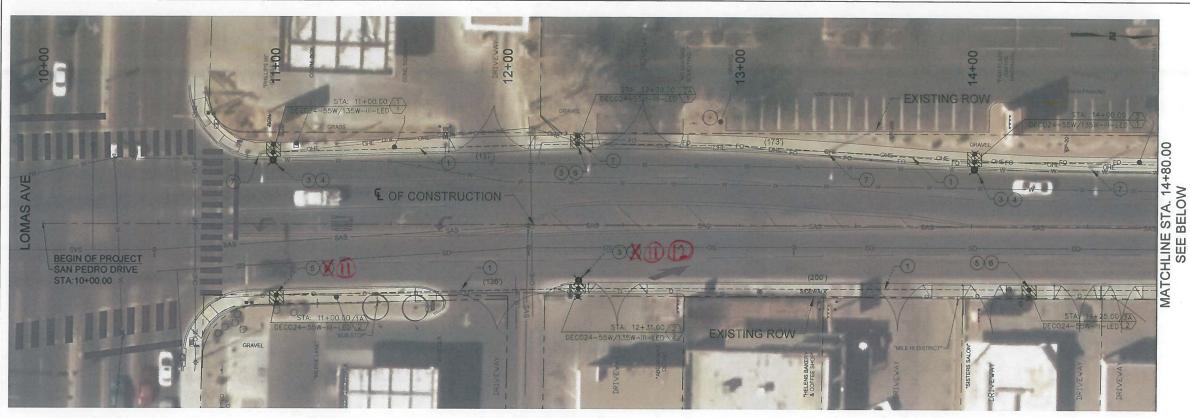
RUN	LENGTH	NO. 30'	X 0.85	NO. 15'	X 0.25	TOTAL RUN	RUN
KON	(FT)	(POLES)	(AMPS)	(POLES)	AMPS	(AMPS)	VOLATAGE DROP
TO SERVICE	200	10	8.5	10	2.5	11.00	1.188
TO 10A	92	5	4.25	6	1.5	5.75	0.286
10A TO 11	161	5	4.25	5	1.25	5.50	0.478
11 TO 12A	171	4	3.4	5	1.25	4.65	0.429
12A TO 13	141	4	3.4	4	1	4.40	0.335
13 TO 14A	120	3	2.55	4	1	3.55	0.23
14A TO 15	199	3	2.55	3	0.75	3.30	0.355
15 TO 16A	101	2	1.7	3	0.75	2.45	0.134
16A TO 17	171	2	1.7	2	0.5	2.20	0.203
17 TO 18A	130	1	0.85	2	0.5	1.35	0.095
18A TO 19	107	1	0.85	1	0.25	1.10	0.064
19 TO 20A	135	0	0	1	0.25	0.25	0.018

TOTAL VOLTAGE DROP

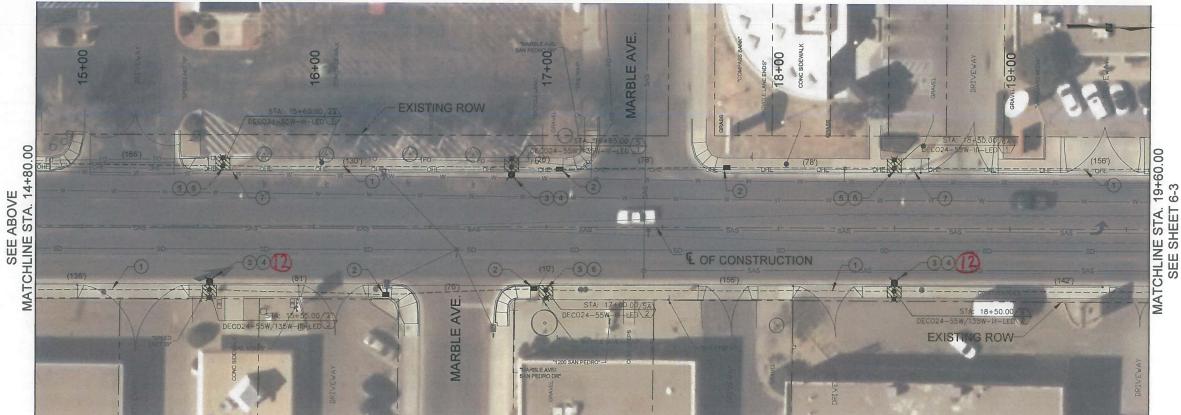
RUN	LENGTH (FT)	NO. 30' (POLES)	X 0.85 (AMPS)	NO. 15' (POLES)	X 0.25 AMPS	TOTAL RUN (AMPS)	RUN VOLATAGE DROP
TO SERVICE	200	10	8.5	10	2.5	11.00	1.188
TO 9A	58	10	8.5	10	2.5	11.00	0.345
9ATO 10	89	6	5.1	5	1.25	6.35	0.305
10 TO 11A	145	5	4.25	5	1.25	5.50	0.431
11A TO 12	181	5	4.25	4	1	5.25	0.513
12 TO 13A	146	4	3.4	4	1	4.40	0.347
13A TO 14	130	4	3.4	3	0.75	4.15	0.291
14 TO 15A	176	3	2.55	3	0.75	3.30	0.3136
15A TO 16	171	3	2.55	2	0.5	3.05	0.282
16 TO 17A	156	2	1.7	2	0.5	2.20	0.185
17A TO 18	163	2	1.7	1	0.25	1.95	0.172
18 TO 19A	103	1	0.85	1	0.25	1.10	0.061
19A TO 20	151	1	0.85	0	0	0.85	0.069
						TOTAL AMPS	4.50
				1	OTAL VO	LTAGE DROP	1.88%

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		DRIVE LIG GENERAL				N			
Design Review Committee PPROVE JAN 12 2016 REVIEW COMMITTEE	APP	gineer Approval PROVED IN 12 2016 ENGINEER	Last Design Update	Mo /	/Day/Y	r.	Мо	/Day	·/Y
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SAN PEDRO DRIVE



SAN PEDRO DRIVE

KEYED NOTES

- INSTALL 2" CONDUIT(REC) WITH 2 #2 SINGLE CONDUCTORS AND #6 GROUND.
- INSTALL NEW ELECTRICAL PULL BOX (STANDARD) PER COA STD 2550.
- INSTALL DECORATIVE LIGHT COMBO POLE WITH 55W & 135W DECORATIVE LUMINAIRES.
- 4) BUILD FOUNDATION PER SHEET 6-7.
- INSTALL DECORATIVE LIGHT (PEDESTRIAN) POLE WITH 55W DECORATIVE LUMINAIRE.
- BUILD FOUNDATION PER COA STD DWG 2555 (PEDESTAL FOUNDATION).
- EXISTING POLE TO BE REMOVED AND SALVAGED BY PNM, INCLUDING OVERHEAD WIRING.
- CONTINUE CONDUIT TO POWER SOURCE. SEE SHEET 6-5 "MOUNTAIN RD. METER
- INSTALL LIGHTING CONTROL CABINET.
- (10) INSTALL ELECTRICAL METER.
- **BUILD FOUNDATION PER SHEET 6-9**
- ADD SIDEWALK AS NEEDED IN ORDER TO MEET ADA REQUIREMENTS. SEE SHEET 6-10

LEGEND

REMOVE AND DISPOSE EXISTING SIDEWALK FOR INSTALLATION OF NEW FOUNDATION. REMOVE TO NEAREST JOINT (EITHER WAY). SEE DETAIL A-PLAN ON SHEET 6-6.

GENERAL NOTES

PROTECT IN PLACE ALL EXISTING UTILITIE WITHIN PROJECT LIMITS.

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						RCHIT	DATE DEC 2016	DATE DEC 2016	0000
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				REMARKS	REVISIONS	ENGINEERS	TVE	TGO	000
74				DATE	REI	SON & COMPANY, ENGINEERS & ARCHITECTS	IGNED BY	WN BY	CKED BY
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6-2

WILSO &COMPANY

CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION

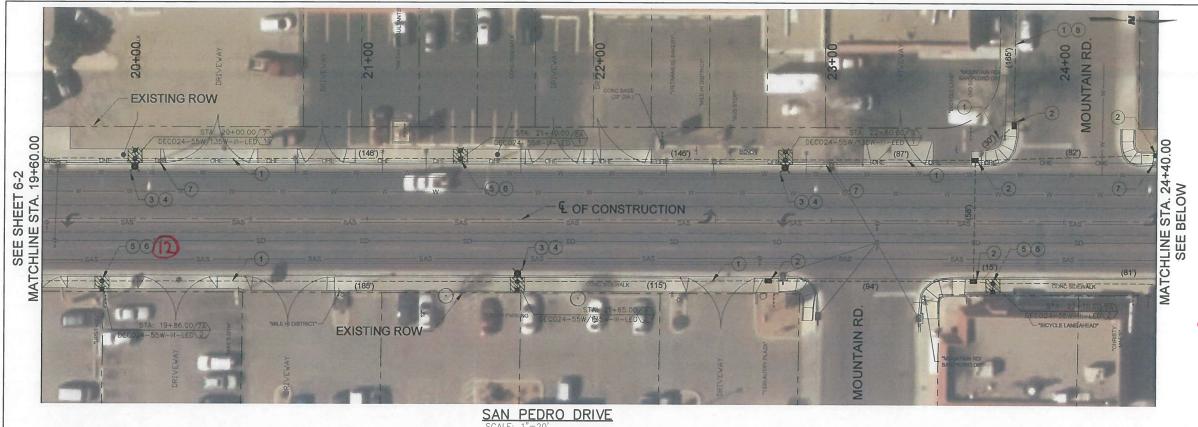
SAN PEDRO DRIVE LIGHTING PLAN LIGHTING PLAN

City Engineer Approval JAN 12 2016 DESIGN REVIEW COMMITTEE City Project No.

552783

PROVER JAN 12 2016 CITY ENGINEER

J-18





SAN PEDRO DRIVE

KEYED NOTES

- INSTALL 2" CONDUIT(REC) WITH 2 #2 SINGLE CONDUCTORS AND #6 GROUND.
- INSTALL NEW ELECTRICAL PULL BOX (STANDARD) PER COA STD 2550.
- INSTALL DECORATIVE LIGHT COMBO POLE WITH 55W & 135W DECORATIVE LUMINAIRES.
- 4) BUILD FOUNDATION PER SHEET 6-7.
- INSTALL DECORATIVE LIGHT (PEDESTRIAN) POLE WITH 55W DECORATIVE LUMINAIRE.
- BUILD FOUNDATION PER COA STD DWG 2555 (PEDESTAL FOUNDATION).
- EXISTING POLE TO BE REMOVED AND SALVAGED BY PNM, INCLUDING OVERHEAD WIRING.
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- INSTALL LIGHTING CONTROL CABINET.
- (10) INSTALL ELECTRICAL METER.
- **BUILD FOUNDATION PER SHEET 6-9**
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LEGEND



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GENERAL NOTES

PROTECT IN PLACE ALL EXISTING UTILITIES WITHIN PROJECT LIMITS.

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CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION

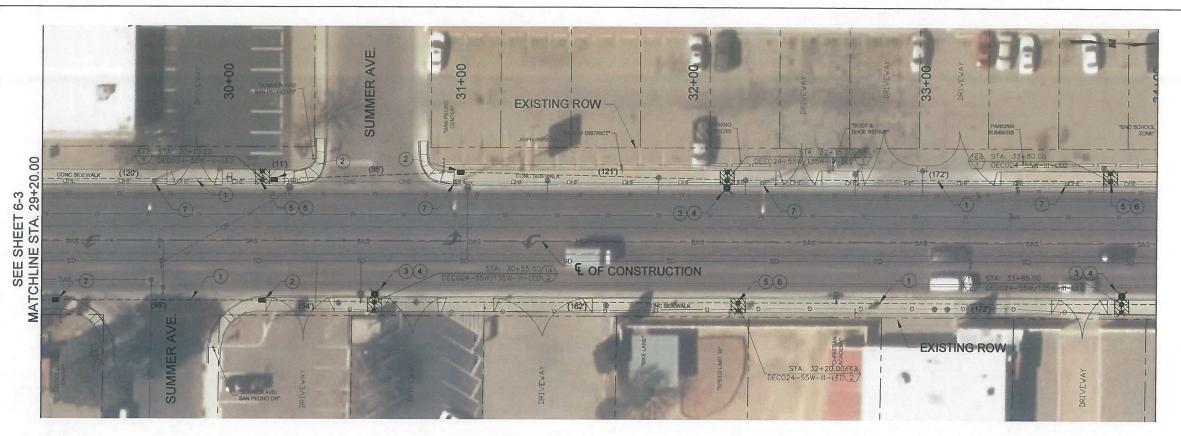
SAN PEDRO DRIVE LIGHTING PLAN LIGHTING PLAN

Design Review Committee JAN 12 2016 DESIGN REVIEW COMMITTEE

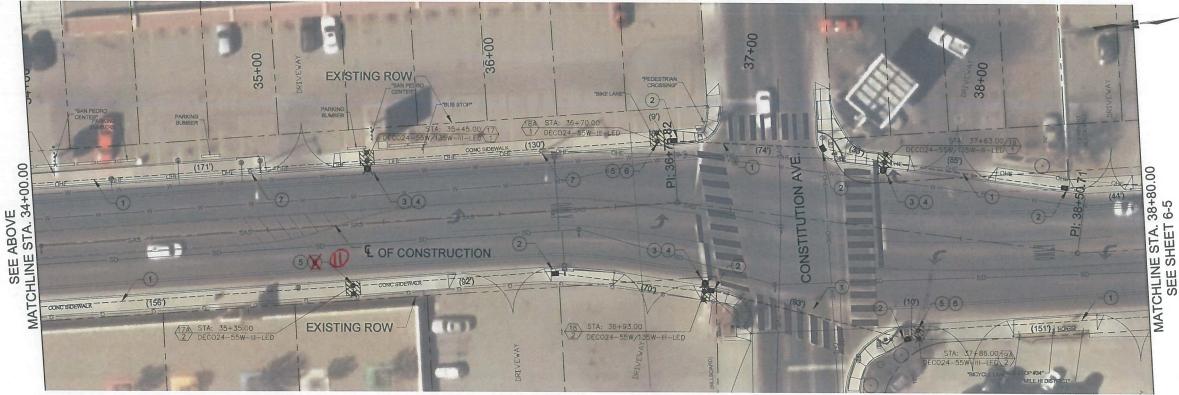
City Engineer Approva PPROVER JAN 12 2016 CITY ENGINEER

J-18

City Project No 552783



SAN PEDRO DRIVE SCALE: 1"=20'



SAN PEDRO DRIVE SCALE: 1"=20'

KF	YED	NC	TES
		111	/

- INSTALL 2" CONDUIT(REC) WITH 2 #2 SINGLE CONDUCTOR'S AND #6 GROUND.
- INSTALL NEW ELECTRICAL PULL BOX (STANDARD) PER COA STD 2550.
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- BUILD FOUNDATION PER SHEET 6-7.
- 5 INSTALL DECORATIVE LIGHT (PEDESTRIAN) POLE WITH 55W DECORATIVE LUMINAIRE.
- BUILD FOUNDATION PER COA STD DWG 2555 (PEDESTAL FOUNDATION).
- EXISTING POLE TO BE REMOVED AND SALVAGED BY PNM, INCLUDING OVERHEAD WIRING.
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- 9 INSTALL LIGHTING CONTROL CABINET.
- (10) INSTALL ELECTRICAL METER.
- **BUILD FOUNDATION PER SHEET 6-9**
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LEGEND

REMOVE AND DISPOSE EXISTING SIDEWALK FOR INSTALLATION OF NEW FOUNDATION. REMOVE TO NEAREST JOINT (EITHER WAY). SEE DETAIL A-PLAN ON SHEET 6-6.

GENERAL NOTES

PROTECT IN PLACE ALL EXISTING UTILITIES WITHIN PROJECT LIMITS.

> WILSON &COMPANY

CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION

SAN PEDRO DRIVE LIGHTING PLAN LIGHTING PLAN

Design Review Committee **APPROVE** JAN 12 2016 DESIGN REVIEW COMMITTEE City Project No

PPROVER JAN 12 2016 CITY ENGINEER

City Engineer Approve

552783 J-18



SAN PEDRO DRIVE
SCALE: 1"=20'



MOUNTAIN RD. METER PLAN SCALE: 1"=30"

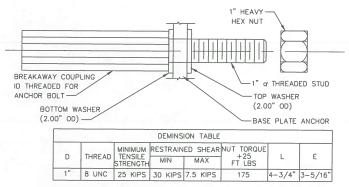
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KEYED NOTES									
1 INSTALL 2" CONDUIT(REC) WITH 2 - #2 SINGLE CONDUCTORS AND #6 GROUND.	INFORMATION		DATE	DATE	DATE	DATE	INFORMA TION	DATE	
2 INSTALL NEW ELECTRICAL PULL BOX (STANDARD) PER COA STD 2550.	FORM						FORM		
3 INSTALL DECORATIVE LIGHT COMBO POLE WITH 55W & 135W DECORATIVE LUMINAIRES.	-						FILM		
4 BUILD FOUNDATION PER SHEET 6-7.	AS-BUIL	CTOR	BY	TOR'S ANCE BY	ATION BY	GS TED BY	17	ED BY	
5 INSTALL DECORATIVE LIGHT (PEDESTRIAN) POLE WITH 55W DECORATIVE LUMINAIRE.	AS	the CONTRACTOR	the WORK STAKED	Б	VERPICATION B			2-J18 RECORDED	ON
BUILD FOUNDATION PER COA STD DWG 2555 (PEDESTAL FOUNDATION).			To reach t	travel south	onto	d and the	section The	d'sc stamped 2-	ilk and 0.5
7 EXISTING POLE TO BE REMOVED AND SALVAGED BY PNM, INCLUDING OVERHEAD WIRING.	MARKS	The station 2-J18 is located 4.8 miles east of downtown Albq at	ution Ave. NE.	Blwd,	Tum right	San Pedro Blvd	the southeast quadrant of the intersection	control brass disc s	and the sidewalk
8 CONTINUE CONDUIT TO POWER SOURCE. SEE SHEET 6-5 "MOUNTAIN RD. METER PLAN"	BENCH MARKS	4.8 miles east	d. and Constitution Ave.	of 140 and Louislana	Constitution Ave	0.5 miles to	theast quadra	survey	d 0.5 feet behind
9 INSTALL LIGHTING CONTROL CABINET.		located	Pedro Blvd.	section	0	go west	the sou	City of Albq	e ground
10 INSTALL ELECTRICAL METER.		J18 IS	S	the intersection of 140	0.2 miles	and	the left in	is a City	flush with the
		ation 2-	intersection of	from	Blvd	ution Ave	on the	mark	set flush
		The sto	interse	station	Louisiana	Constitution	station on	station	1981 se
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LEGEND	NF0	000	ВХ						
REMOVE AND DISPOSE EXISTING	SURVEY INFORMATION	FIELD							
SIDEWALK FOR INSTALLATION OF NEW FOUNDATION. REMOVE TO NEAREST	URVI		o S						
JOINT (EITHER WAY), SEE DETAIL A-PLAN ON SHEET 6-6.	S		Z			0			_
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		9	Licen	No.	160	GA. NEVA 120	PC 500	COMPERE !)
GENERAL NOTES	ENGINEER'S SE,	9	LICER	THE WALL		GA. NEVA 120	PC 500	- COMPLER -	
GENERAL NOTES 1. PROTECT IN PLACE ALL EXISTING UTILITIES WITHIN PROJECT LIMITS.		9	Lice		160	GA NE VA	PC 100 100 100 100 100 100 100 100 100 10	016 MOMEER	016
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PROTECT IN PLACE ALL EXISTING UTILITIES		9	Licent		SHS YA	GA, WEYA	& ARCHITECTS F. C. COS COS	DATE DEC 201	DATE DEC 201
PROTECT IN PLACE ALL EXISTING UTILITIES		9	LIGER		SHS YA	SNOISI SNOISI	ENGINEERS & ARCHITECTS	DATE DEC 201	DEC 201
PROTECT IN PLACE ALL EXISTING UTILITIES		9	LIGHT		SHS YA	SNOISI SNOISI	ENGINEERS & ARCHITECTS	DATE DEC 201	DATE DEC 201
PROTECT IN PLACE ALL EXISTING UTILITIES		9	LICER		SHS YA	SNOISI SNOISI	ENGINEERS & ARCHITECTS	DATE DEC 201	DATE DEC 201
PROTECT IN PLACE ALL EXISTING UTILITIES		9	LIGHT		TE REMARKS BY 1990	SNOISIONS SNOISIONS	& COMPANY, ENGINEERS & ARCHITECTS	BY TVE DATE DEC 201	DATE DEC 201
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PROTECT IN PLACE ALL EXISTING UTILITIES WITHIN PROJECT LIMITS.	ENGINEER'S	9	Literature		TE REMARKS BY 1990	SNOISIONS SNOISIONS	& COMPANY, ENGINEERS & ARCHITECTS	ED BY TVE DATE DEC 201	TGO DATE DEC 201
1. PROTECT IN PLACE ALL EXISTING UTILITIES WITHIN PROJECT LIMITS. WILSON & COMPANY	SA 3 ENGINEER'S	9			NO. DATE REMARKS BY (1991)	SWO/SN/JA	& COMPANY, ENGINEERS & ARCHITECTS	ED BY TVE DATE DEC 201	BY TGO DATE DEC 201
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1. PROTECT IN PLACE ALL EXISTING UTILITIES WITHIN PROJECT LIMITS. & COMPANY CITY OF MUNICIPAL DI ENGINEERING DIVISION SAN PEDRO DRIVE LIGHTI LIGHTING PLAN	Z S S S S S S S S S S S S S S S S S S S	9 1	DPI -	ME	Z NO. DATE REMARKS BY (29)	REVISIONS REVISIONS	WILSON & COMPANY, ENGINEERS & ARCHITECTS	DESIGNED BY TVE DATE DEC 201	UKAWN BY TGO DATE DEC 201
CITY OF ALBUQUERQUENGINEERING DIVISION SAN PEDRO DRIVE LIGHTILIGHTING PLAN Esign Review Committee City Engineer Approval	Z S S S S S S S S S S S S S S S S S S S	9 1	DPI	ME	Z NO. DATE REMARKS BY (29)	REVISIONS REVISIONS	& COMPANY, ENGINEERS & ARCHITECTS	DESIGNED BY TVE DATE DEC 201	UKAWN BY TGO DATE DEC 201
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1. PROTECT IN PLACE ALL EXISTING UTILITIES WITHIN PROJECT LIMITS. CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEPARTMENT OF MUNICIPAL DENGINEERING DIVISION SAN PEDRO DRIVE LIGHTILIGHTING PLAN ESIGN REVIEW COMMITTEE City Engineer Approval PPROVEN SAN PEDRO VEN SAN PE	Z S S S S S S S S S S S S S S S S S S S	9 1	DPI -	ME	Z NO. DATE REMARKS BY (29)	REVISIONS REVISIONS	WILSON & COMPANY, ENGINEERS & ARCHITECTS	DESIGNED BY TVE DATE DEC 201	UKAWN BY TGO DATE DEC 201

		MATERIALS LIST
ITEM	QUANT.	DESCRIPTION
Α	1	NOT USED
В	1	NOT USED
С	1	NOT USED
D	1	600V 2/C #2 UF CU CABLE
Ε	1	#6 CU WIRE
F	1	5/8" X 8' GROUND ROD
G	1	5/8" GROUND ROD CLAMP
Н	1	FUSE HOLDER
J	1	STREETLIGHT POLE GROUNDING LUG
K	2	FOUR-WAY STREETLIGHT CONNECTORS
L	2	5A LIMITRON FUSE
М	1	POUR IN PLACE FOUNDATION
N	1	NOT USED
0	1	9" BREAKAWAY BASE FOR LIGHT POLE

NOTES:

- 1. FOR CUSTOMER OWNED AND DESIGNED SYSTEMS ONLY
- 2. LEVEL LUMINAIRE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS
- 3. POLE MUST BE AT LEAST 4' FROM A FIRE HYDRANT.
- 4. POUR IN PLACE FOUNDATIONS MUST CURE FOR 14 DAYS BEFORE ERECTING POLE.
- 5. NESC RULE 231 AND 314B.
- 6. LEAVE 18" TO 24" TAIL FROM EDGE OF CONDUIT STUBOUT.

GROUNDING DETAIL



BREAKAWAY SUPPORT COUPLING SHALL CONFORM TO THE REQUIREMENTS OF ASSHTO STANDARDS FOR BREAKAWAY SUPPORTS.

COUPLINGS SHALL BE FABRICATED FROM EITHER DIE CAST ALUMINUM ALLOY 380 ACCORDING TO ASTM B-85, OR EXTRUDED FORM ALLOY 2024-T8511 ACCORDING TO ASTM A-153.

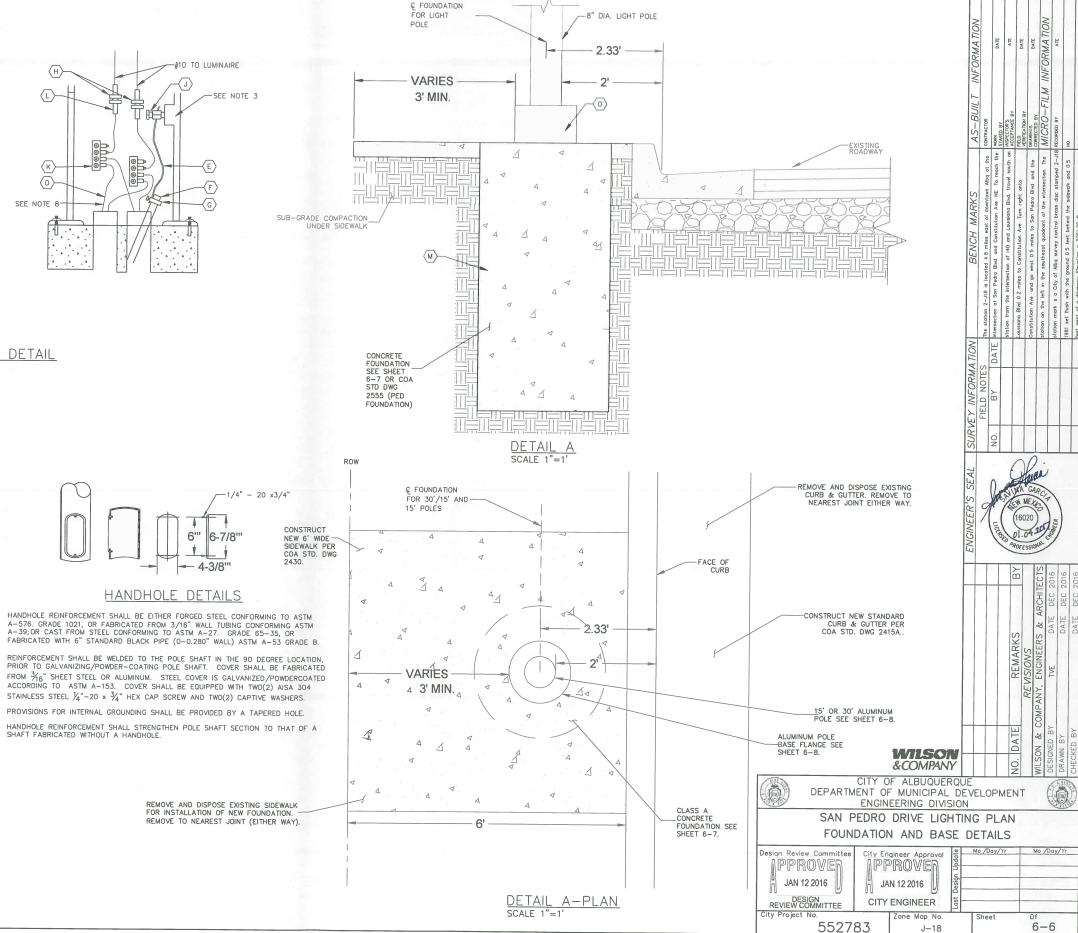
WASHERS SHALL BE FABRICATED FROM ASTM A-36 STEEL PLATE AND SHALL BE GALVANIZED ACCORDING TO ASTM-153.

HEX NUTS SHALL MEET THE REQUIREMENTS AO ASTM A-563 GRADE A, AND ANSI 18.2.2 HEX TYPE AND SHALL BE GALVANIZED ACCORDING TO ASTM A-153.

THREADED STUDD SHALL MEET THE REQUIREMENTS OF ASTM 675 GRADE 90 AND IS GALVANIZED WITH ASTM A=153, OR IS FABRICATED FROM AISI STAINLESS STEEL.

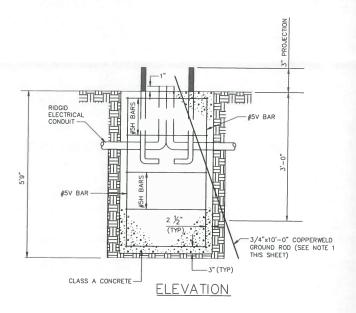
WHEN COUPLINGS ARE FURNISHED, EACH LIGHT POLE SHALL BE FURNISHED WITH FOUR(4) COUPLINGS AND THREADED STUDS, EIGHT(8)FLAT WASHERS, AND FOUR(4)HEX NUTS.

BREAKAWAY BOLT DETAIL

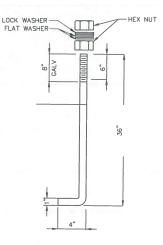


GENERAL NOTES:

- ALL FOUNDATIONS SHALL INCLUDE COPERWELD GROUND RODS AS SHOWN WHICH SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE FOUNDATION. NO PRICE OR PAYMENT SHALL BE MADE THEREFOR.
- WELDING SHALL BE IN ACCORDANCE WITH SECTION 1.4.2 OF AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.
- 3. ALUMINUM STANDARDS SHALL UTILIZE AN APPROVED BREAKAWAY COUPLINGS WHICH SHALL BE CONSIDERED INCIDENTAL TO THE LIGHTING STANDARD.
- 4. VERIFY ANCHOR SIZE, MATERIAL REQUIREMENTS, AND PLACEMENT WITH LIGHT POLE MANUFACTURER.



ESTIMATED FOUNDATION C	DUANTITIES
ITEM	30' MOUNTING HEIGHT
REINFORCING BARS, GRADE 60	110 POUNDS
PORTLAND CEMENT CONCRETE CLASS "A"	1.3 CU.YDS.



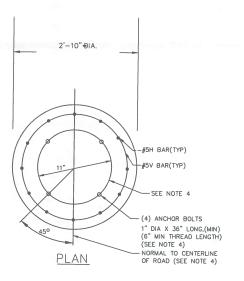
ANCHOR BOLTS SHALL BE HOT BENT AND SHALL MEET THE REQUIREMENTS OF ASTM A-675 GRADE 90, NUTS MEET THE REQUIREMENT OF ASTM A-563 GRADE A, AND ANSI B18.2

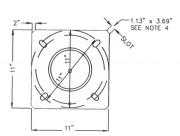
FLAT WASHERS SHALL MEET THE REQUIREMENTS OF ANSI B27.2 HEAVY WASHERS. LOCK WASHERS SHALL MEET THE REQUIREMENTS OF ANSI B18.21.1 HEAVY WASHERS.

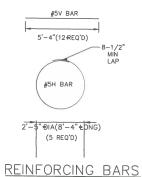
BOLTS, NUTS, AND LOCKWASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-153.

FOUR(4)ANCHOR BOLTS. EIGHT(8)HEX NUTS, EIGHT(8)FLAT WASHERS, AND FOUR(4)LOCK WASHERS SHALL BE FURNISHED WITH EACH POLE. NUTS, FLAT WASHERS AND LOCK WASHERS FOR BREAKAWAY SUPPORTS SHALL BE SPECIFIED ON DETAILS.

ANCHOR BOLT DETAIL







WILSON &COMPANY

CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION SAN PEDRO DRIVE LIGHTING PLAN FOUNDATION & BASE DETAILS DECORATIVE LIGHT COMBO POLE

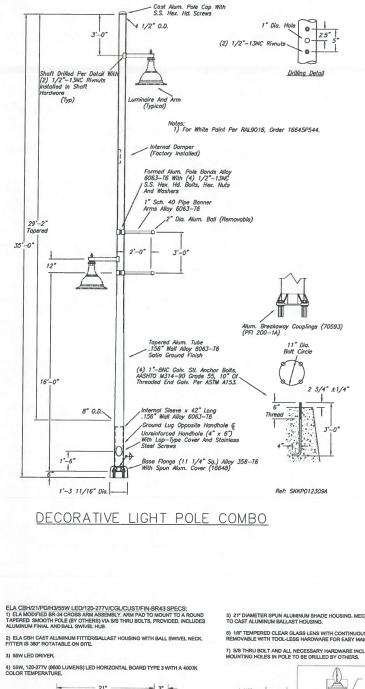
Design Review Committee JAN 12 2016 DESIGN REVIEW COMMITTEE

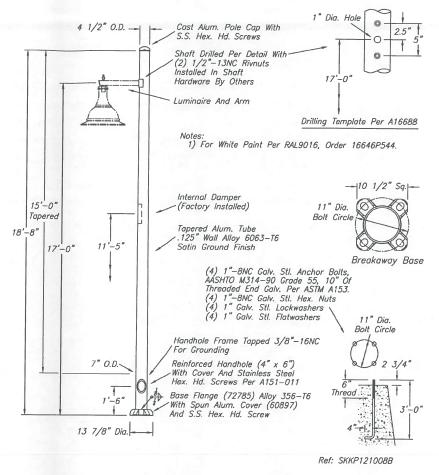
City Project No.

PPROVEN JAN 12 2016

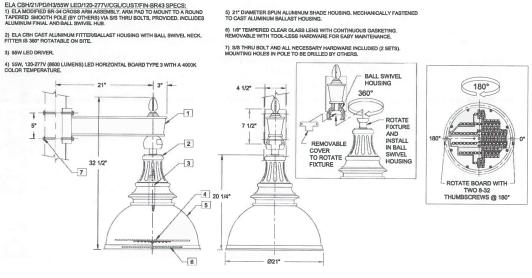
CITY ENGINEER

J-18

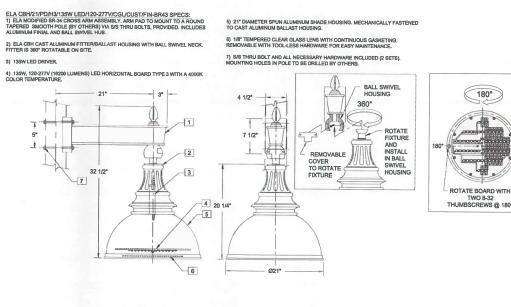




DECORATIVE LIGHT (PEDESTRIAN) POLF



DECORATIVE LUMINAIRE 55W LED DETAIL



DECORATIVE LUMINAIRE 135W LED DETAIL

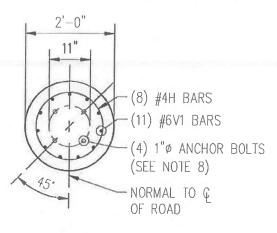
WILSON &COMPANY CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ENGINEERING DIVISION

SAN PEDRO DRIVE LIGHTING PLAN DECORATIVE STREET LIGHTS

esian Review Committee **APPROVE** JAN 12 2016 DESIGN REVIEW COMMITTEE

City Engineer Appro JAN 12 2016 CITY ENGINEER

J-18



ELECTRICAL

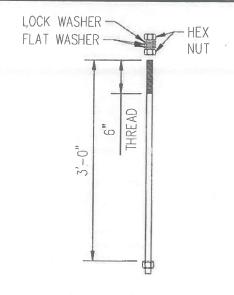
5/8"øx8'-0"

COPPERWELD

GROUNDING ROD

(SEE NOTE 5)

CONDUIT



FOUNDATION PLAN SCALE: N.T.S.

+

23/4"

(8) #4H-

BARS

0

EVENLY

SPACED

#6V

BARS

3" CLR

1"ø-8NC GALV. AASHTO M314-90 GR. 55 HFX HEADED ANCHOR BOLTS, GALV.

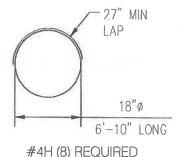
FLAT WASHERS SHALL CONFORM TO ANSI B27.2, HEAVY WASHERS.

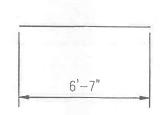
LOCK WASHERS SHALL CONFORM TO ANSI B18.21.1, HEAVY WASHERS.

BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.

(4) HEX HEADED ANCHOR BOLTS, (8) HEX NUTS, (8) FLAT WASHERS AND (4) LOCK WASHERS SHALL BE FURNISHED WITH EACH POLE.

ANCHOR BOLT DETAIL SCALE: N.T.S.





#6V (11) REQUIRED

PROJECT:			SHEET:	
COA ART DECORAL LIGHTING FOUNDA	—			SK-1
CAD DWG FILE: 20170	238-SK-1.d	wg		
DRAWN BY: JEC	DATE: 9	-29-2016		
CHECKED BY: SMM	DATE: 9	-29-2016		

FOUNDATION ELEVATION

ESTIMATED FOUNDATION QUANT	TITIES (PER EACH)
ITEM	QUANTITY
GR. 60 REINFORCING BARS	146 LB
PORTLAND CEMENT CONCRETE	0.82 CY

GENERAL NOTES

- 1. WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.
- 2. STRUCTURAL CAST-IN-PLACE CONCRETE: STRUCTURAL CONCRETE SHALL SHALL BE IN ACCORDANCE WITH SPECIFICATIONS TABLE 101.C. FOR EXTERIOR CONCRETE ($f'_c = 3000 \text{ P.S.I.}$).
- 3. REINFORCING STEEL: STEEL REINFORCEMENT AND PLACEMENT SHALL BE IN ACCORDANCE WITH SPECIFICATIONS SECTION 102 AND SHALL CONFORM TO ASTM A615, GRADE 60. ALL LAP SPLICES SHALL BE CLASS B OR AS SHOWN ON THE PLANS.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE TO SEE THAT ALL REBAR IS PROPERLY ALIGNED AND TIED IN PLACE BEFORE PLACING CONCRETE. ALL STEEL SHALL BE ACCURATELY LOCATED AND SECURED IN PLACE SO THAT IT REMAINS IN POSITION DURING THE PLACEMENT OF THE CONCRETE. ANY REBAR IMPROPERLY INSTALLED SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.
- 5. ALL FOUNDATIONS SHALL INCLUDE COPPERWELD GROUNDING RODS AS SHOWN. GROUNDING RODS SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE FOUNDATION, NO PRICE OR PAYMENT SHALL BE MADE THERFOF.
- 6. WELDING SHELL BE IN ACCORDANCE WITH SECTION 1.4.2 OF THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.
- 7. ALUMINUM STANDARDS SHALL UTILIZE APPROVED BREAKAWAY COUPLINGS. BREAKAWAY COUPLINGS SHALL BE CONSIDERED INCIDENTAL TO THE LIGHTING STANDARD.
- 8. DESIGN IS FOR HAPCO TYPES 35342 AND 16646, VERIFY ANCHOR BOLT SIZE, MATERIAL REQUIREMENTS AND PLACEMENT WITH LIGHT POLF MANUFACTURER.

SERVICE DESIGN LOADS

OZITIOL DEGIGITEDI DO	
SHAFT AXIAL LOAD, P	= 500 LB
SHAFT TIP SHEAR, V	= 660 LB
SHAFT TIP MOMENT, M	= 17,140 FT-LB

GEOTECHNICAL DATA

GLOTLOTTINIONE DAT	
SOIL UNIT WEIGHT	= 110 PCF
FRICTION ANGLE	= 30°
SOIL MODULUS	= 200 PCI











12+31 15+55 18+50 19+86