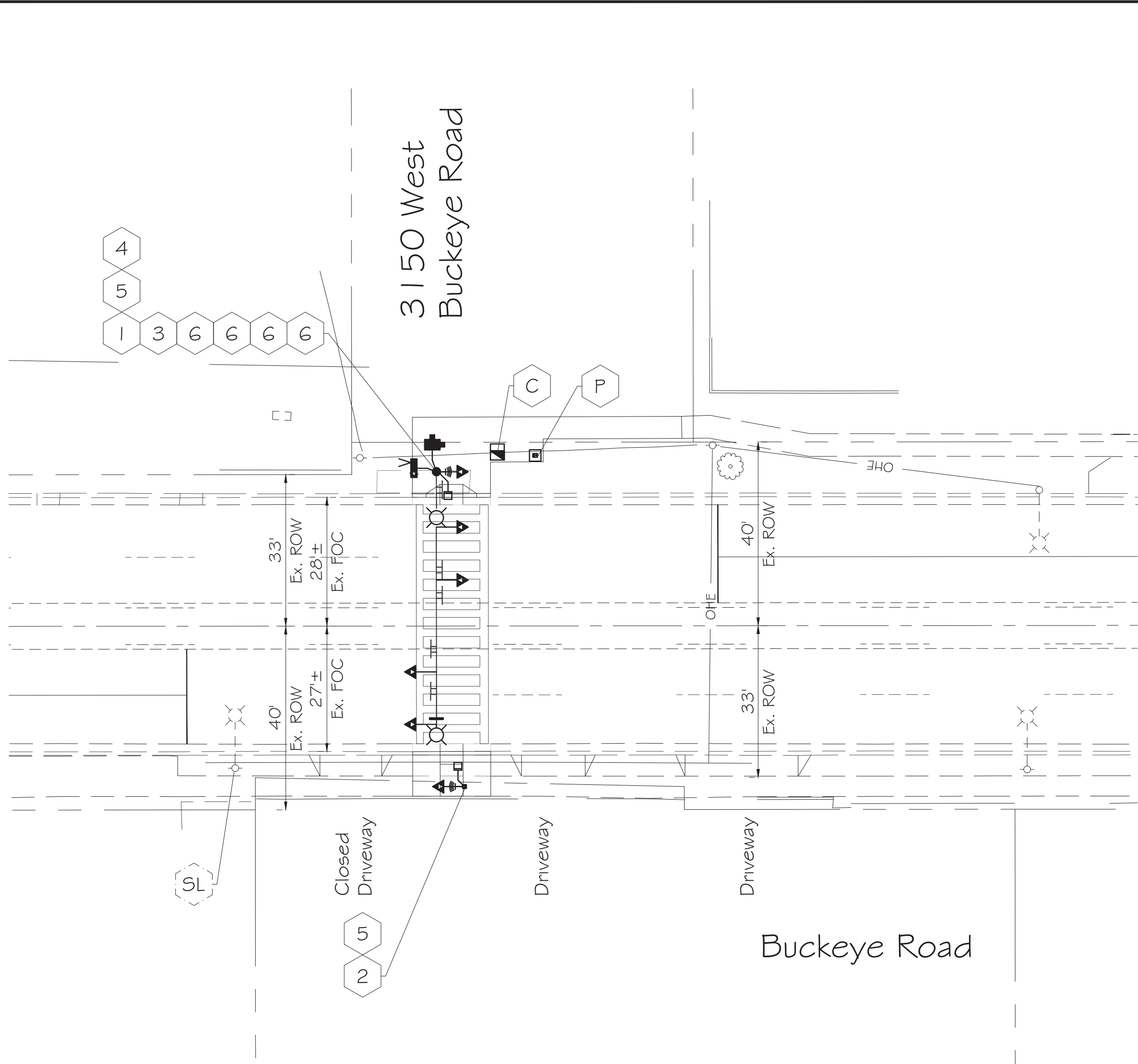


PROPOSED FOUNDATION SCHEDULE			
NO.	TYPE	FROM MON LINE OF BUCKEYE RD	FROM POWER POLE A
C	CONT	37 ft. NORTH	30 ft. EAST
P	PSP	37 ft. NORTH	38 ft. EAST
I	P70	34 ft. NORTH	17 ft. EAST
2	AP	35 ft. SOUTH	23 ft. EAST

PROPOSED JUNCTION BOX SCHEDULE			
NO.	TYPE	FROM MON LINE OF BUCKEYE RD	FROM POWER POLE A
3	#7	32 ft. NORTH	30 ft. EAST
4	#7	31 ft. SOUTH	30 ft. EAST

INSTALL

- C** 8 Phase Controller Foundation
- P** Type A Power Service Pedestal Foundation
- I** thru **2** See Foundation Schedule
- 3** thru **4** See Junction Box Schedule
- I** 2" Schedule 40 PVC
- 2** 2 1/2" Schedule 40 PVC
- 3** 1" Schedule 40 PVC
- SL** Existing Streetlight
Mounted on Power Pole - 1
Standalone Streetlight - 1



EQUIPMENT LIST

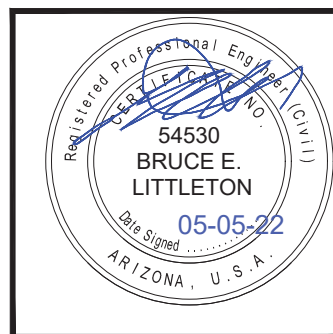
- C** 8 Phase Controller Cabinet - 1 New
- P** Type A Power Service Pedestal - 1 New
- I** Traffic Signal Pole Type P70 - 1 New
- 2** Traffic Signal Pole Type AP - 1 New
- 3** P70 55' Mast Arm - 1 New
- 4** 20' Riser, Single Shoe - 1 New
- 5** 12" HAWK Signal Head - 2 New Pole Mount
- 6** 12" HAWK Signal Head - 4 New Mast Arm Mount w/Plumbizer
- SL** Streetlight - 1 existing

- X** Luminaire - 2 New
Signal Pole Mount - 1
Signal Mast Arm Mount - 1
- W** Wireless Radio - 1 New
- C** CCTV Camera - 1 New
- P** Enhanced Pedestrian Push Button - 2 New
- H** Pedestrian Head - 2 New
- S** Sign Mounted on Signal Mast Arm - 6 New
- D** Mast Arm Damper - 1 New

3. WORK TO BE PERFORMED BY CITY OF PHOENIX SIGNAL CREWS

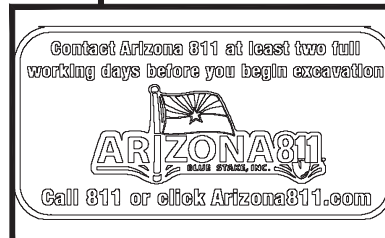
The City of Phoenix traffic signal crews will provide and install all above ground traffic signal equipment including:

- All controllers
- Power service pedestal mounting ring
- Type "A" power service pedestal
- All poles and pole grouting, mast arms, risers and luminaire mast arms including all pole anchor cages, nuts and bolts
- All signal heads
- All pedestrian heads
- All accessible pedestrian signal (APS) push buttons
- All LED luminaires
- All illuminated street signs
- All signal wiring
- All loop and non-invasive detectors
- All cameras and all radios



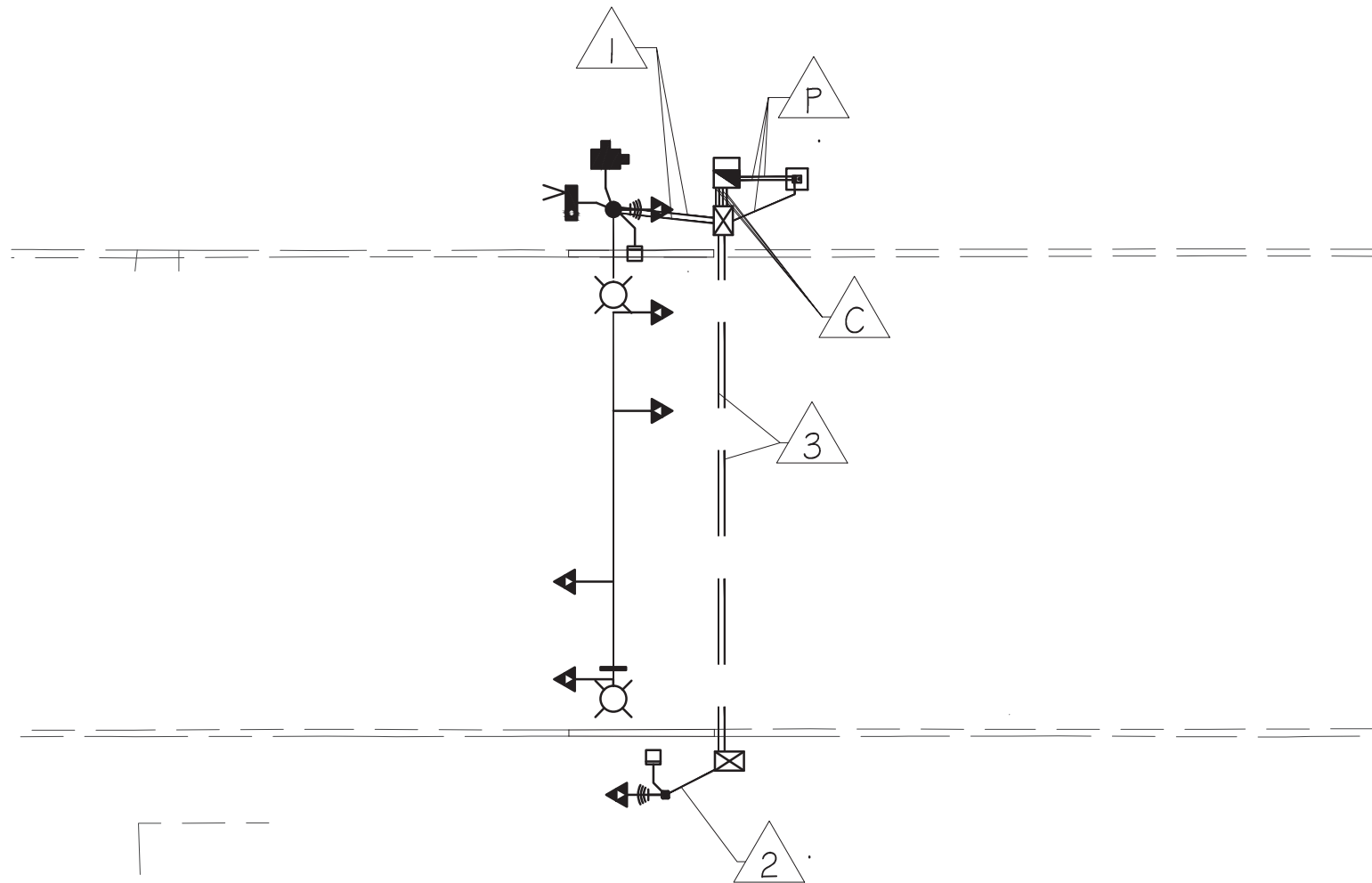
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.			
AZTEC TYPSA				
DR:	DES:	CK:	DATE:	

1. GENERAL NOTES: Contractor as referenced herein is the Job Order Contracting (JOC) Contractor.
- 1.1 The contractor shall notify the City of Phoenix Traffic Signal Shop (602-262-6733) a minimum of fourteen (14) calendar days prior to beginning any traffic signal work. Submittals of all equipment shall be furnished to the Signal Shop and approved prior to ordering any traffic signal equipment. The contractor shall verify they have the current approved plan set prior to starting and ordering any equipment.
- 1.2 The contractor shall layout all ADA ramps, junction boxes and foundation locations for approval by a traffic signal representative. Contractor must have a current visible Bluestake showing all utilities. All ADA ramps shall be laid out in white marking paint to determine best traffic signal pole locations.
- 1.3 Traffic Signal Plan approval is valid for 365 calendar days from date sealed. If signal construction has not begun prior to the 365 days elapsing, the signal plans must be re-submitted for approval or an extension granted by the Deputy Director of Traffic Services or an authorized representative to ensure that existing traffic signal equipment locations and standard detail references are current.
- 1.4 The contractor shall have a complete set of approved plans including current City of Phoenix Traffic Signal Standard Details (www.phoenix.gov/streets/reference-material) on site at all times during signal and lighting systems construction. The contractor shall have a competent supervisor capable of reading and understanding plans and specifications and thoroughly experienced in the construction of traffic signals. The contractor's supervisor or lead shall possess a current International Municipal Signal Association (IMSA) Level II Traffic Signal Electrician Certification and must be on site during any traffic signal construction activities. It will be the responsibility of the contractor to supply verification of certification. If a jobsite is inspected and a certified Electrician is not on site, a stop work order will be issued.
- 1.5 The contractor is responsible for the construction of the project; its planning, safety, quality and completion. The City of Phoenix inspection team would make the determination if the work performed meets the criteria and if not, may request that the work be redone at the contractor's expense.
- 1.6 Foundation elevations must be within 1/4" of finished sidewalk grade.
- 1.7 A minimum of a four (4) foot clear path is required around all traffic signal poles. A four by four (4x4) flat landing centered on the pedestrian push button must be maintained as provided on the Traffic Signal Standard Details (see note 1.4).
2. WORK TO BE PERFORMED BY THE CONTRACTOR
- 2.1 The contractor shall complete all trenching and all demolition work unless otherwise noted and to provide and install the following per the latest Traffic Signal Standard Details (see note 1.4).
- One (1) Type P70 foundation
 - One (1) Type AP foundation
 - All other foundations (controllers and power service pedestal (PSP))
 - All junction boxes with 18" of sump (installed completely inside or completely outside of concrete)
 - All conduit runs, including the conduit runs from the PSP to the utility companies point of service
- Note: City to provide all anchor cages, nuts, bolts and service pedestals (see note 3).
- 2.2 All underground conduits shall be schedule 40 rigid polyvinyl chloride (PVC) installed 24 inches to 30 inches below finished grade except for loop lead-in conduits, which shall be schedule 40 rigid PVC installed in accordance with the latest Traffic Signal Standard Details (see note 1.4). All conduits shall be installed in straight lines (unless approved by the Signal Shop Inspector), junction box to junction box or junction box to signal equipment foundation with one 90-degree sweep on each end as specified in the plans. All conduits entering junction boxes shall be vertical. Conduits in all foundations shall be located as close as possible to center of the foundation and vertical with foundation below the bottom of the cover. All conduit ends except those in the controller cabinet foundation will be provided with a "bell end" fitting of appropriate size. Contractor shall provide sufficient space between conduits for "bell ends" to be installed in one piece without alterations. All conduits shall have a pull and locating conductor. Contractor shall install a #10 bare copper solid conductor or a detectable mule tape, installed as directed by signal shop staff.
- 2.3 Removal of existing streetlights, the contractor shall:
- Request de-energization of all streetlights listed for removal
 - Provide complete removal of streetlight pole, mast arm and luminaire
 - Properly dispose of all streetlight material

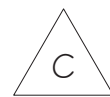


APPROVED BY:	
TRAFFIC SIGNAL ENGINEER	<i>Angel Gobb</i>
DATE:	5/5/2022
STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY CITY DIRECTOR	<i>Bruce E. Littleton</i>
DATE:	5/13/2022

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX			
HAWK BEACON CITY OF PHOENIX, ARIZONA STREET TRANSPORTATION DEPARTMENT			
3150 W BUCKEYE ROAD FOUNDATION EQUIPMENT			
PROJECT #:	FILE NO: 11699		
DR: HSY	DES: HSY	CK: TEE	SHEET NO: TOTAL SHEETS
DATE: 04/2022	DATE: 04/2022	DATE: 04/2022	
SCALE: 1" = 20'	Q5. #:	1	4



3150 W. Buckeye Road



Controller to #7 Junction Box

CONDUIT 1	CONDUIT 2	CONDUIT 3	CONDUIT 4
#10 Bare Copper #10 Neutral 7C IMSA Cable - West Leg 7C IMSA Cable - East Leg	#10 Bare Copper CAT5 Wireless Radio Cable CAT5 CCTV Cable	#10 Bare Copper	#10 Bare Copper



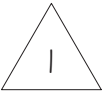
Power Service Pedestal
to #7 Junction Box

CONDUIT 1
#10 Bare Copper #10 AWG Black #10 AWG White #10 AWG Green



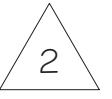
Power Service Pedestal
to Controller

CONDUIT 1	CONDUIT 2
#10 Bare Copper 5C IMSA Cable (LUM) 3C IMSA Cable (RADIO)	Detectible Mule Tape



#7 Junction Box to P70 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 7C IMSA Cable - West Leg 3C IMSA Cable (LUM) 3C IMSA Cable (Radio)	#10 Bare Copper CAT5 Wireless Radio Cable CAT5 CCTV Cable



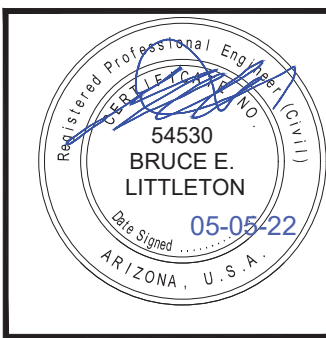
#7 Junction Box to AP Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 7C IMSA Cable - East Leg	#10 Bare Copper

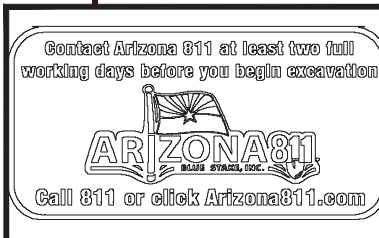


#7 Junction Box to #7 Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 Neutral 5C IMSA Cable 7C IMSA Cable - East Leg	#10 Bare Copper



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.			
AZTEC TYPSA				
DR:	DES:	CK:	DATE:	



APPROVED BY:	
TRAFFIC SIGNAL ENGINEER	<i>Angel Cobb</i>
DATE:	5/5/2022
STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR	<i>Bruce Velazquez</i>
DATE:	5/13/2022

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HAWK BEACON				
CITY OF PHOENIX, ARIZONA				
STREET TRANSPORTATION DEPARTMENT				
3150 W BUCKEYE ROAD WIRING				
PROJECT #:			FILE NO:	11699
DR: HSY	DES: HSY	CK: TEE	SHEET NO:	TOTAL SHEETS
DATE: 04/2022	DATE: 04/2022	DATE: 04/2022	3	4
SCALE: 1" = 20'			Q5. #:	

