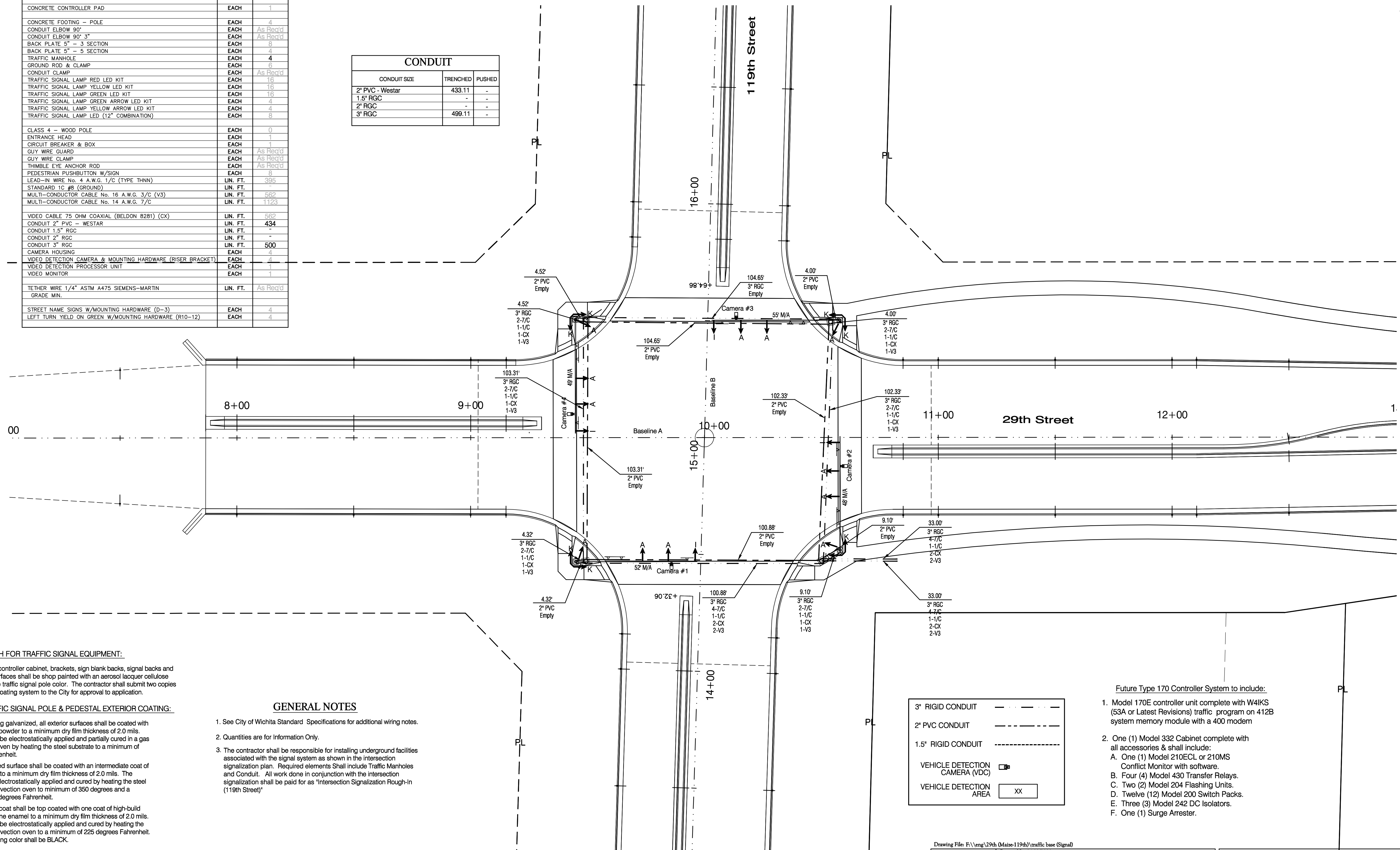


BILL OF MATERIALS		
ITEM	UNIT	QTY
PAD MOUNTED CONTROLLER & CABINET	EACH	1
TRAFFIC SIGNAL HEAD (SEE CHART A) W/ MOUNTING HARDWARE	EACH	16
PEDESTRIAN SIGNAL HEAD (12" COMB.) W/ MOUNTING HARDWARE	EACH	8
TRAFFIC SIGNAL POLE (SEE CHART B) STEEL	EACH	4
CONCRETE CONTROLLER PAD	EACH	1
CONCRETE FOOTING - POLE	EACH	4
CONDUIT ELBOW 90°	EACH	As Req'd
CONDUIT ELBOW 90° 3"	EACH	As Req'd
BACK PLATE 5" - 3 SECTION	EACH	8
BACK PLATE 5" - 5 SECTION	EACH	4
TRAFFIC MANHOLE	EACH	4
GROUND ROD & CLAMP	EACH	6
CONDUIT CLAMP	EACH	As Req'd
TRAFFIC SIGNAL LAMP RED LED KIT	EACH	16
TRAFFIC SIGNAL LAMP YELLOW LED KIT	EACH	16
TRAFFIC SIGNAL LAMP GREEN LED KIT	EACH	16
TRAFFIC SIGNAL LAMP GREEN ARROW LED KIT	EACH	4
TRAFFIC SIGNAL LAMP YELLOW ARROW LED KIT	EACH	4
TRAFFIC SIGNAL LAMP LED (12" COMBINATION)	EACH	8
CLASS 4 - WOOD POLE	EACH	0
ENTRANCE HEAD	EACH	1
CIRCUIT BREAKER & BOX	EACH	1
GUY WIRE GUARD	EACH	As Req'd
GUY WIRE CLAMP	EACH	As Req'd
THIMBLE EYE ANCHOR ROD	EACH	As Req'd
PEDESTRIAN PUSHBUTTON W/SIGN	EACH	8
LEAD-IN WIRE No. 4 A.W.G. 1/C (TYPE THNN)	LIN. FT.	395
STANDARD 1C #8 (GROUND)	LIN. FT.	-
MULTI-CONDUCTOR CABLE No. 16 A.W.G. 3/C (V3)	LIN. FT.	562
MULTI-CONDUCTOR CABLE No. 14 A.W.G. 7/C	LIN. FT.	1123
VIDEO CABLE 75 OHM COAXIAL (BELDON 8281) (CX)	LIN. FT.	562
CONDUIT 2" PVC - WESTAR	LIN. FT.	434
CONDUIT 1.5" RGC	LIN. FT.	-
CONDUIT 2" RGC	LIN. FT.	-
CONDUIT 3" RGC	LIN. FT.	500
CAMERA HOUSING	EACH	4
VIDEO DETECTION CAMERA & MOUNTING HARDWARE (RISER BRACKET)	EACH	4
VIDEO DETECTION PROCESSOR UNIT	EACH	1
VIDEO MONITOR	EACH	1
TETHER WIRE 1/4" ASTM A475 SIEMENS-MARTIN	LIN. FT.	As Req'd
GRADE MIN.		
STREET NAME SIGNS W/MOUNTING HARDWARE (D-3)	EACH	4
LEFT TURN YIELD ON GREEN W/MOUNTING HARDWARE (R10-12)	EACH	4

CONDUIT		
CONDUIT SIZE	TRENCHED	PUSHED
2" PVC - Westar	433.11	-
1.5" RGC	-	-
2" RGC	-	-
3" RGC	499.11	-



**SPECIAL FINISH FOR TRAFFIC SIGNAL EQUIPMENT:**

The traffic signal controller cabinet, brackets, sign blank backs, signal backs and other exposed surfaces shall be shop painted with an aerosol lacquer cellulose ester to match the traffic signal pole color. The contractor shall submit two copies of the proposed coating system to the City for approval to application.

**FUTURE TRAFFIC SIGNAL POLE & PEDESTAL EXTERIOR COATING:**

In addition to being galvanized, all exterior surfaces shall be coated with a zinc rich epoxy powder to a minimum dry film thickness of 2.0 mils. The coating shall be electrostatically applied and partially cured in a gas fired convection oven by heating the steel substrate to a minimum of 250 degrees Fahrenheit.

The powder primed surface shall be coated with an intermediate coat of polyester powder to a minimum dry film thickness of 2.0 mils. The coating shall be electrostatically applied and cured by heating the steel substrate in a convection oven to a minimum of 350 degrees and a maximum of 400 degrees Fahrenheit.

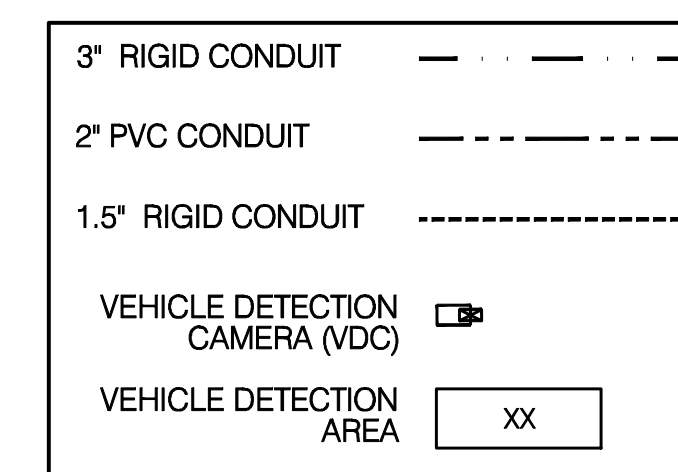
The intermediate coat shall be top coated with one coat of high-build acrylic polyurethane enamel to a minimum dry film thickness of 2.0 mils. The coating shall be electrostatically applied and cured by heating the substrate in a convection oven to a minimum of 225 degrees Fahrenheit. The final top coating color shall be BLACK.

**GENERAL NOTES**

- See City of Wichita Standard Specifications for additional wiring notes.
- Quantities are for Information Only.
- The contractor shall be responsible for installing underground facilities associated with the signal system as shown in the intersection signalization plan. Required elements shall include Traffic Manholes and Conduit. All work done in conjunction with the intersection signalization shall be paid for as "Intersection Signalization Rough-In (119th Street)".

**Future Type 170 Controller System to include:**

- Model 170E controller unit complete with W4IKS (53A or Latest Revisions) traffic program on 412B system memory module with a 400 modem
- One (1) Model 332 Cabinet complete with all accessories & shall include:
  - One (1) Model 210ECL or 210MS Conflict Monitor with software.
  - Four (4) Model 430 Transfer Relays.
  - Two (2) Model 204 Flashing Units.
  - Twelve (12) Model 200 Switch Packs.
  - Three (3) Model 242 DC Isolators.
  - One (1) Surge Arrester.



Drawing File: F:\eng\29th (Maine-119th)\traffic base (Signal)  
 Design: AZIERE  
 Drawn: AZIERE  
 Approved: JFB  
 Scale: NOTED

Project No. 0403-E828 CAPITAL IMPROVEMENT PROJECT  
**Intersection Wiring Plan**  
 29th & 119th Intersection  
 29th Street Paving Project - Maine Road to 119th Street