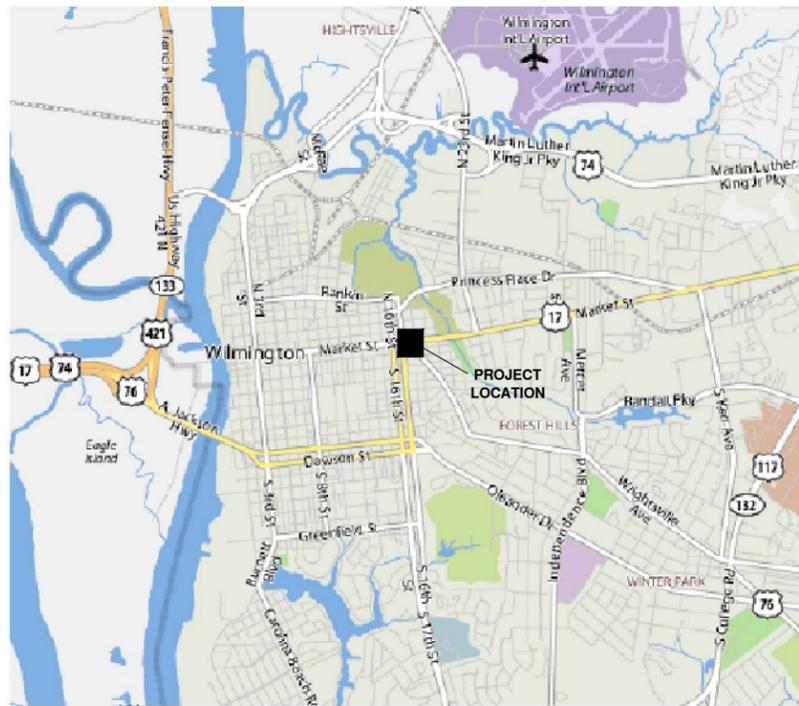


GOVERNING SPECIFICATIONS:
 THE MOST CURRENT EDITION OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION "STANDARD
 SPECIFICATIONS" AND "SUPPLEMENTAL SPECIFICATIONS AND
 RECURRING SPECIAL PROVISIONS" HEREIN SHALL GOVERN.
 WHERE APPLICABLE.

CITY OF WILMINGTON, NORTH CAROLINA

PROJECT PLANS FOR THE CONSTRUCTION OF RED TRAFFIC LIGHT MONITORING FACILITIES AT THE INTERSECTION OF **US 17 - MARKET ST AT SR 1219 - 17TH ST**



SHEET INDEX

SHEET NO.	SITE ID	DESCRIPTION
1		TITLE SHEET
2		INTERSECTION PLAN - SB US 17 - MARKET ST at SR 1219 - 17th ST
3-4		ATS STANDARD DETAILS



7681 E. GRAY RD
 SCOTTSDALE, AZ 85260 USA
 TEL: (480)443-7000 FAX: (480)607-0901
 WWW.ATSOL.COM

ENGINEER OF RECORD:
 ROBERT B. ZAITOONI, P.E.
 REG. #

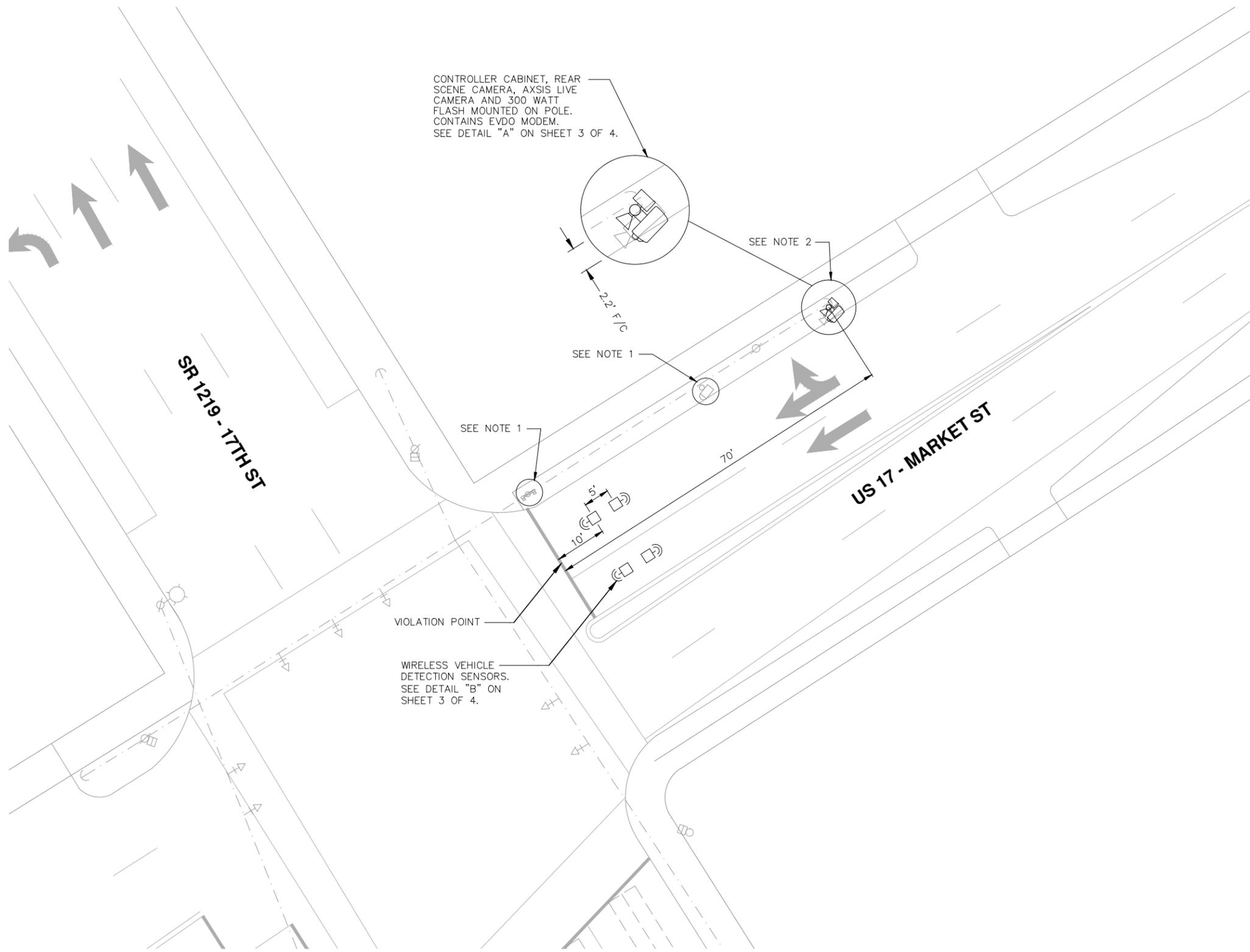
COVERSHEET
 US 17 - MARKET ST at SR 1219 - 17TH ST
 Wilmington NC

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

1ST SUBMITTAL
 DESIGNED BY: SKI
 DATE: 4-23-10
 APPROVED BY: RBZ
 APPROVAL DATE: 4-23-10

JOB NUMBER
 SITE ID(S)

SHEET NUMBER
1
 OF 4 SHEETS

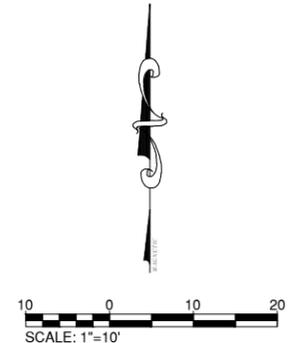


CONTROLLER CABINET, REAR SCENE CAMERA, AXIS LIVE CAMERA AND 300 WATT FLASH MOUNTED ON POLE. CONTAINS EVDO MODEM. SEE DETAIL "A" ON SHEET 3 OF 4.

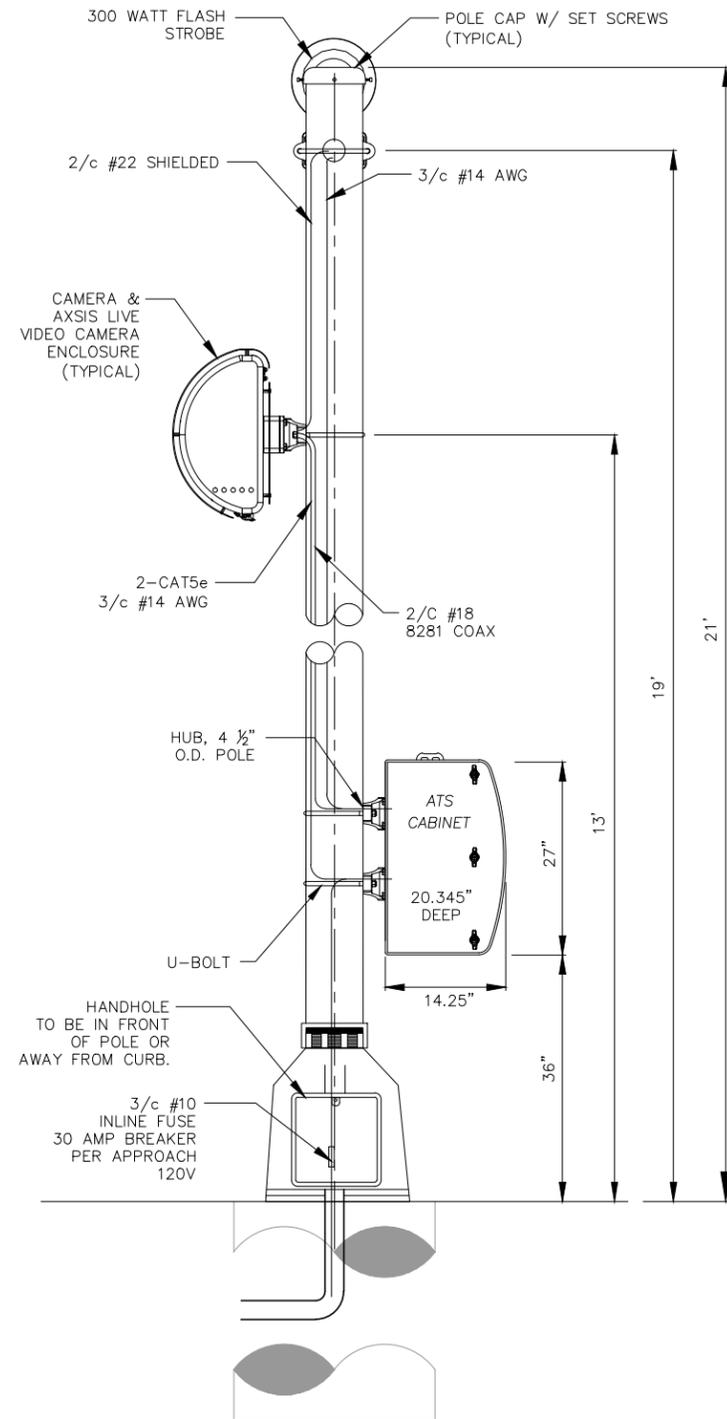
WIRELESS VEHICLE DETECTION SENSORS. SEE DETAIL "B" ON SHEET 3 OF 4.

LEGEND	
	CONDUIT
	DIRECTIONAL BORE
	REAR MONITOR CAMERA ON ATS POLE
	WIRELESS VEHICLE DETECTION SENSORS
	PULL/ JUNCTION BOX
	PHOTO ENFORCEMENT SIGN
	EXISTING CONDUIT

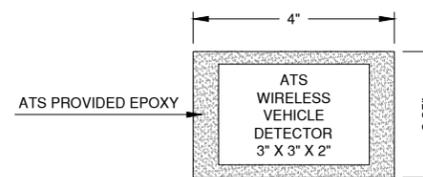
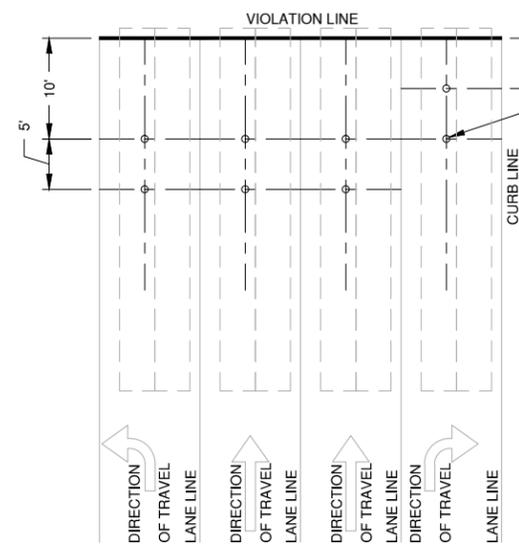
- NOTES:
- CONTRACTOR SHALL REMOVE POLE, EQUIPMENT, AND CABLING. FOUNDATION TO BE REMOVED AND GROUND TO BE RESTORED TO FINISH GRADE.
 - CONTRACTOR SHALL REMOVE POLE AND EQUIPMENT. NEW ATS POLE AND EQUIPMENT TO BE INSTALLED ON EXISTING FOUNDATION.



NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION



DETAIL "A"
20'-4.5" O.D. SCHEDULE 80
(6061 T6 ALUMINUM ALLOY)



TO ATS CONTROLLER

ATS WIRELESS VEHICLE DETECTORS (WVD) INSTALLATION:

TRAILING WVD'S 10' FROM VIOLATION LINE, MIDDLE OF THE LANE.
 LEADING WVD'S 15' FROM VIOLATION LINE, MIDDLE OF THE LANE.

* DEDICATED RIGHT TURNS ONLY -
 TRAILING WVD'S 5' FROM VIOLATION LINE, MIDDLE OF THE LANE.
 LEADING WVD'S 10' FROM VIOLATION LINE, MIDDLE OF THE LANE.

1. MEASURE & MARK DEAD CENTER OF EACH LANE FROM VIOLATION LANE. (SEE DETAIL "A")
2. MEASURE AND MARK 10', 15' & 5' FOR DEDICATED RIGHT TURN LANES FROM VIOLATION LINE. (SEE DETAIL "A")
3. 4" CORE DRILL CENTER OF MARKS @ A DEPTH PF 2.25". JACK HAMMER/CHISLE OUT ASPHALT AS REQUIRED. (SEE IMAGES 1-4)
4. RECORD HEX ID FOR EACH WVD IN EXACT LOCATION PER LANE. RECORD (RED HEX ID INPUT) ON THE DRAWING TO THE LEFT. (SEE IMAGES 5)
5. VACUUM, WASH AND HEAT HOLE PRIOR TO EPOXY FILL. (SEE IMAGE 6)
6. USE MANUFACTURERS EPOXY FILLER ONLY (TO BE SUPPLIED BY ATS).
 - A. FILL BOTTOM OF 4" CORE DRILLER HOLE #1 / 8" WITH EPOXY. (SEE IMAGE 7)
 - B. INSERT WVD WITH ORIENTATION ARROW IN THE SAME DIRECTION AS VEHICLE TRAVEL. (SEE IMAGES 8 & 9)
 - C. STEP BACK AND VIEW ARROW ORIENTATION IS PARALLEL TO DIVIDER STRIPING.
 - D. INSURE YOU HAVE HEX ID RECORDED. (SEE IMAGE 5)
 - E. FILL HOLE WITH REMAINING EPOXY TO ROAD SURFACE LEVEL. (SEE IMAGES 10, 11)

NOTE: THIS EPOXY WILL CURE "HARD" IN APPROXIMATELY 3 MINUTES.
 7. ATS WVD SHALL NOT BE PLACED SO AS TO DAMAGE VEHICLE DETECTION LOOP WIRES.

DETAIL "B"
WIRELESS VEHICLE DETECTION
SENSORE DETAIL

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION



IMAGE # 1



IMAGE # 2



IMAGE # 3



IMAGE # 4



IMAGE # 5



IMAGE # 6



IMAGE # 7



IMAGE # 8



IMAGE # 9



IMAGE # 10

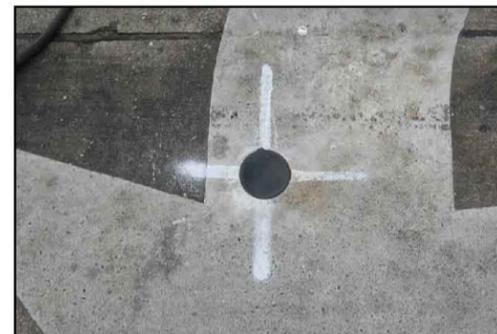


IMAGE # 11

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION