

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  
WRIGHTSVILLE AVE AT COLONIAL DR /  
COUNTRY CLUB DR

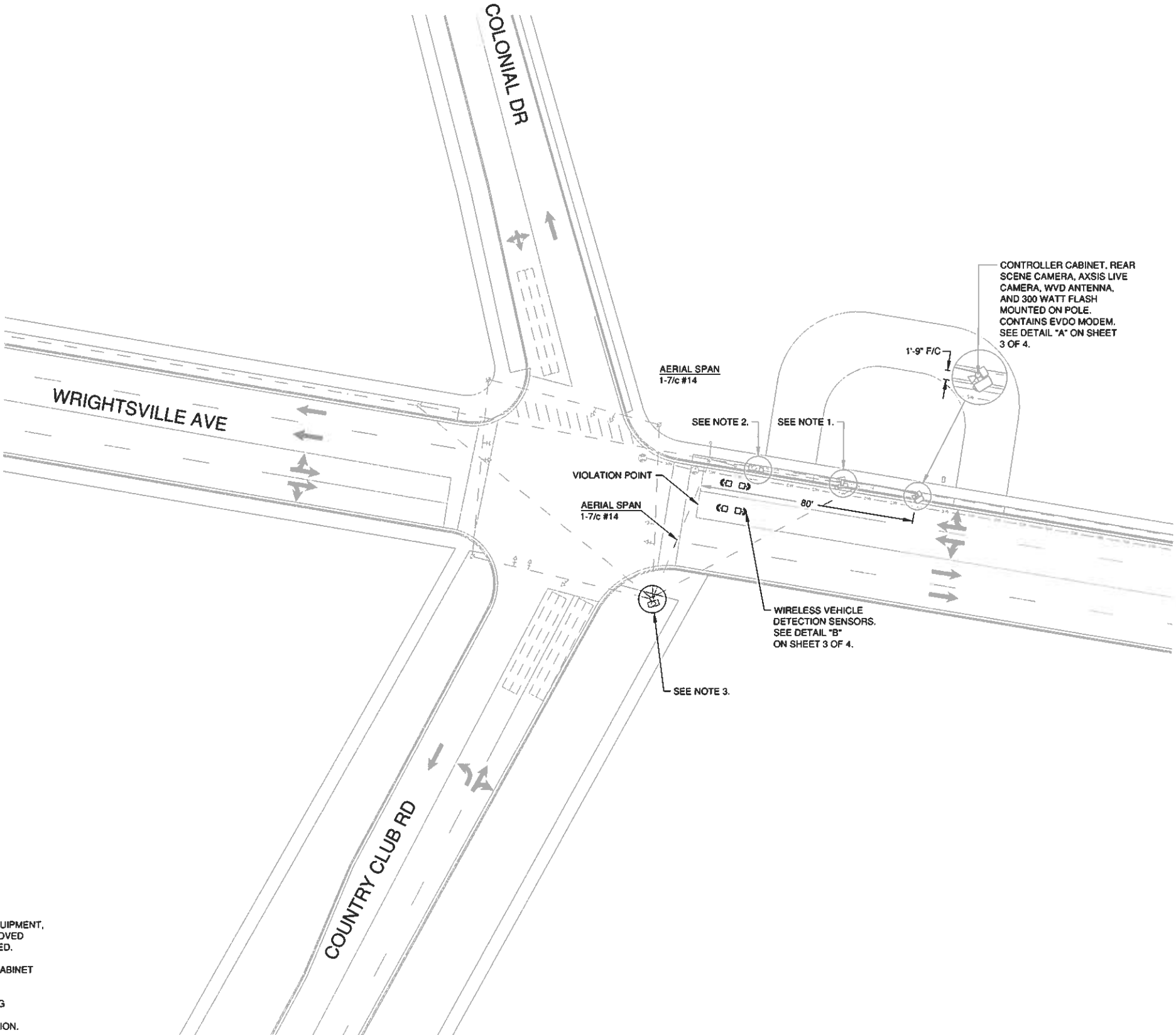


SHEET INDEX

SHEET NO.	SITE ID	DESCRIPTION
1		COVER SHEET
2	W1511	INTERSECTION PLAN - WB WRIGHTSVILLE AVE AT COLONIAL DR / COUNTRY CLUB RD
3-4		ATS STANDARD DETAILS

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

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 NEW ATS PULL BOX TO BE INSTALLED.
  - TERMINATE AT EXISTING TRAFFIC PAX CABINET FOR POWER.
  - CONTRACTOR SHALL REPLACE EXISTING TRAFFIC PAX PHASE DETECTION WITH APPROVED CR9350-ACA PHASE DETECTION.

ONE CALL  
DIGALERT  
Dig Safety  
**811**  
KNOW WHAT'S BELOW  
CALL BEFORE YOU DIG!

SCALE: 1"=20'

American Traffic Solutions

RED LIGHT PHOTO ENFORCEMENT PROGRAM

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

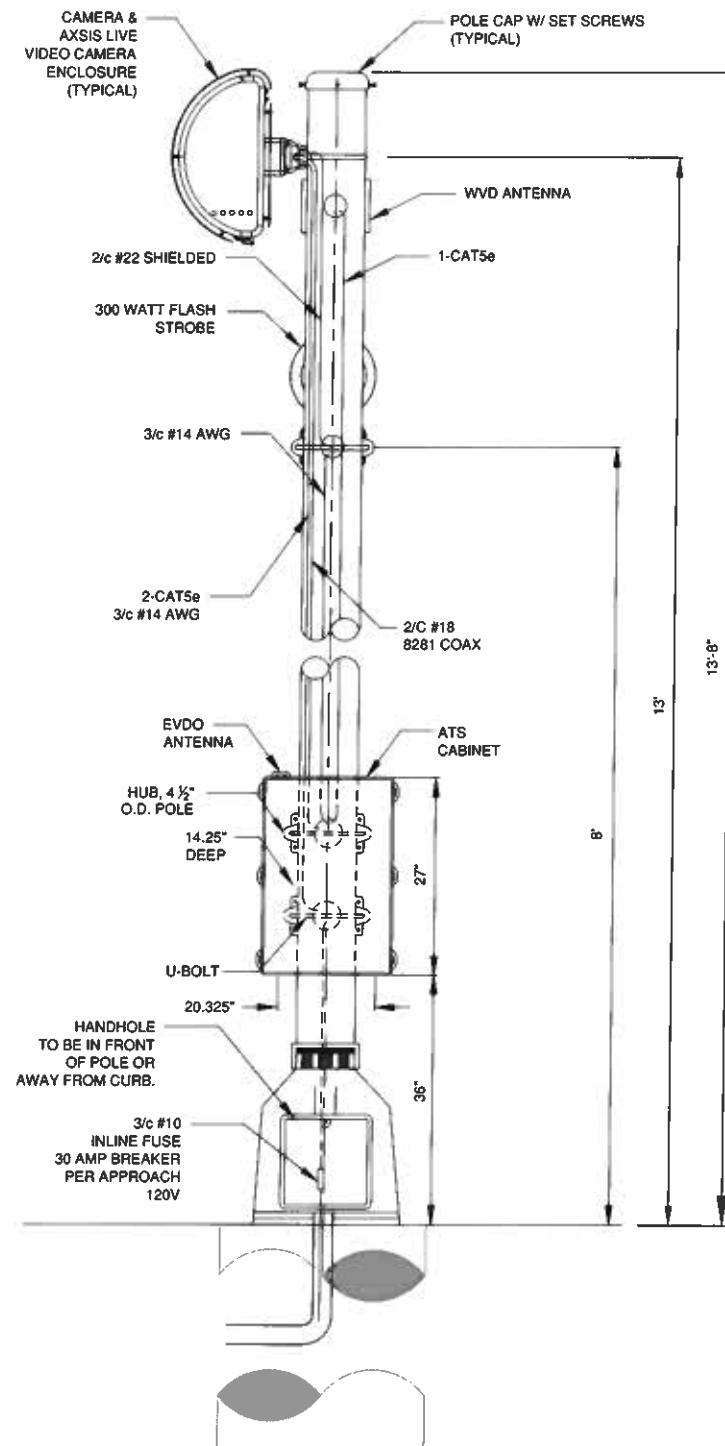
**PLAN SHEET**  
**WB WRIGHTSVILLE AVE AT COLONIAL DR /**  
**COUNTRY CLUB RD**  
**Wilmington, NC**

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

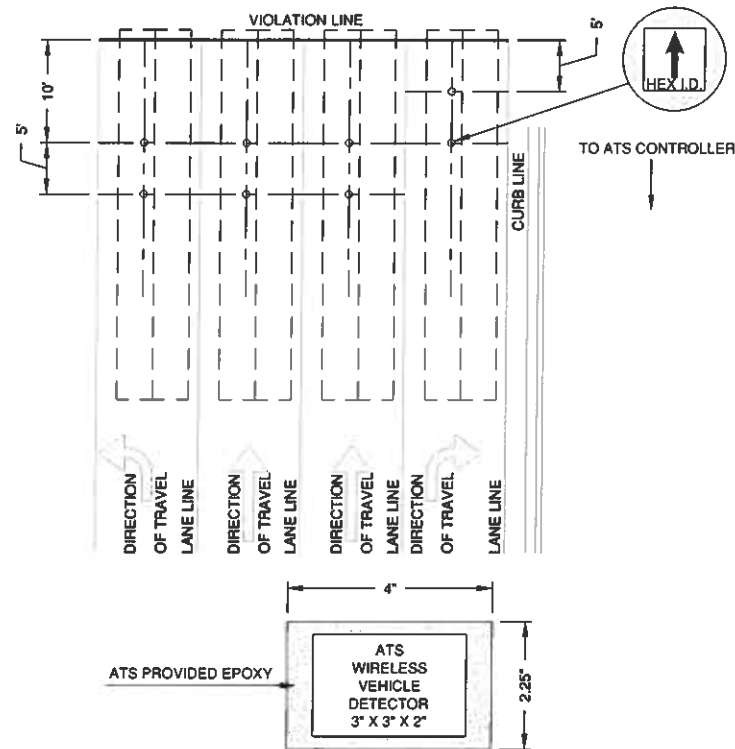
1ST SUBMITTAL  
 DESIGNED BY: SM  
 DATE: 09-27-10  
 APPROVED BY:  
 APPROVAL DATE:

JOB NUMBER  
**1259**  
 SITE ID(S)  
 W1511

SHEET  
 NUMBER  
**2**  
 OF 4 SHEETS



**DETAIL "A"**  
12'-5" - 4.5" O.D. SCHEDULE 80  
(6061 T6 ALUMINUM ALLOY)



**DETAIL "B"**  
**WVD DETAIL**

**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 LINE.  
(SEE DETAIL "B")
2. MEASURE AND MARK 10', 15' & 5' FOR DEDICATED RIGHT TURN LANES FROM VIOLATION LINE.  
(SEE DETAIL "B")
3. 4" CORE DRILL CENTER OF MARKS @ A DEPTH PF 2.25".  
JACK HAMMER/CHISEL OUT ASPHALT AS REQUIRED.  
(SEE IMAGES 1-4 ON SHEET 4 OF 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 ON SHEET 4 OF 4.)
5. VACUUM, WASH AND HEAT HOLE PRIOR TO EPOXY FILL.  
(SEE IMAGE 6 ON SHEET 4 OF 4.)
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 ON SHEET 4 OF 4.)
  - B. INSERT WVD WITH ORIENTATION ARROW IN THE SAME DIRECTION AS VEHICLE TRAVEL.  
(SEE IMAGES 8 & 9 ON SHEET 4 OF 4.)
  - C. STEP BACK AND VIEW ARROW ORIENTATION IS PARALLEL TO DIVIDER STRIPING.
  - D. INSURE YOU HAVE HEX ID RECORDED.  
(SEE IMAGE 5 ON SHEET 4 OF 4.)
  - E. FILL HOLE WITH REMAINING EPOXY TO ROAD SURFACE LEVEL.  
(SEE IMAGES 10, 11 ON SHEET 4 OF 4.)

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.

