

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



ATS 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

COVER SHEET
 WB WRIGHTSVILLE AVE AT COLONIAL DR /
 COUNTRY CLUB DR
 Wilmington, NC

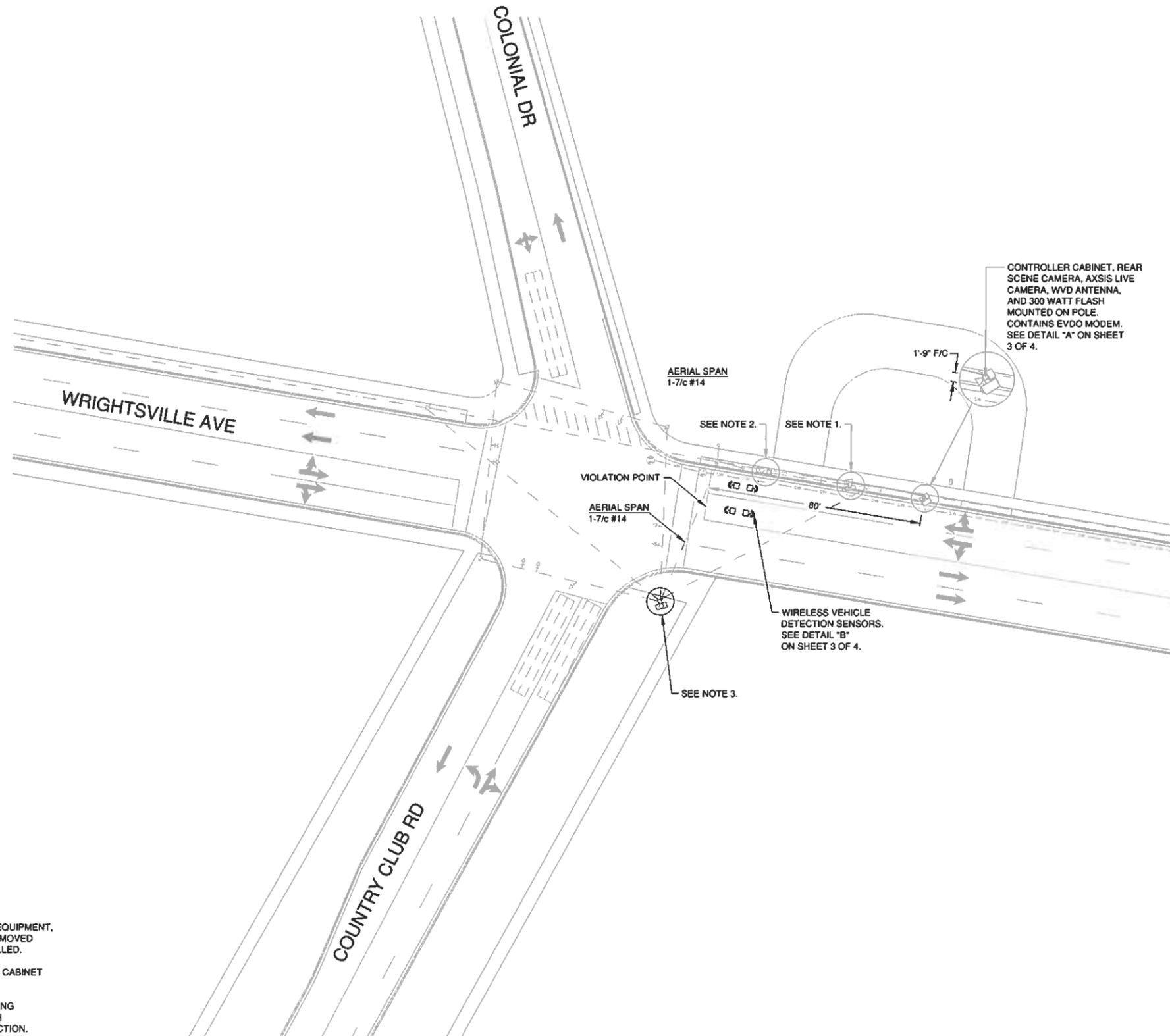
NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

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

JOB NUMBER
1259
 SITE ID(S)
 W1511

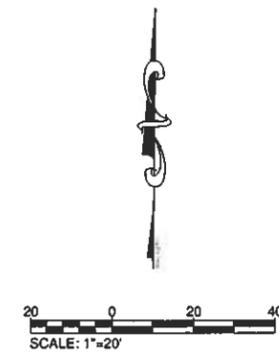
SHEET
 NUMBER
1
 OF 4 SHEETS

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

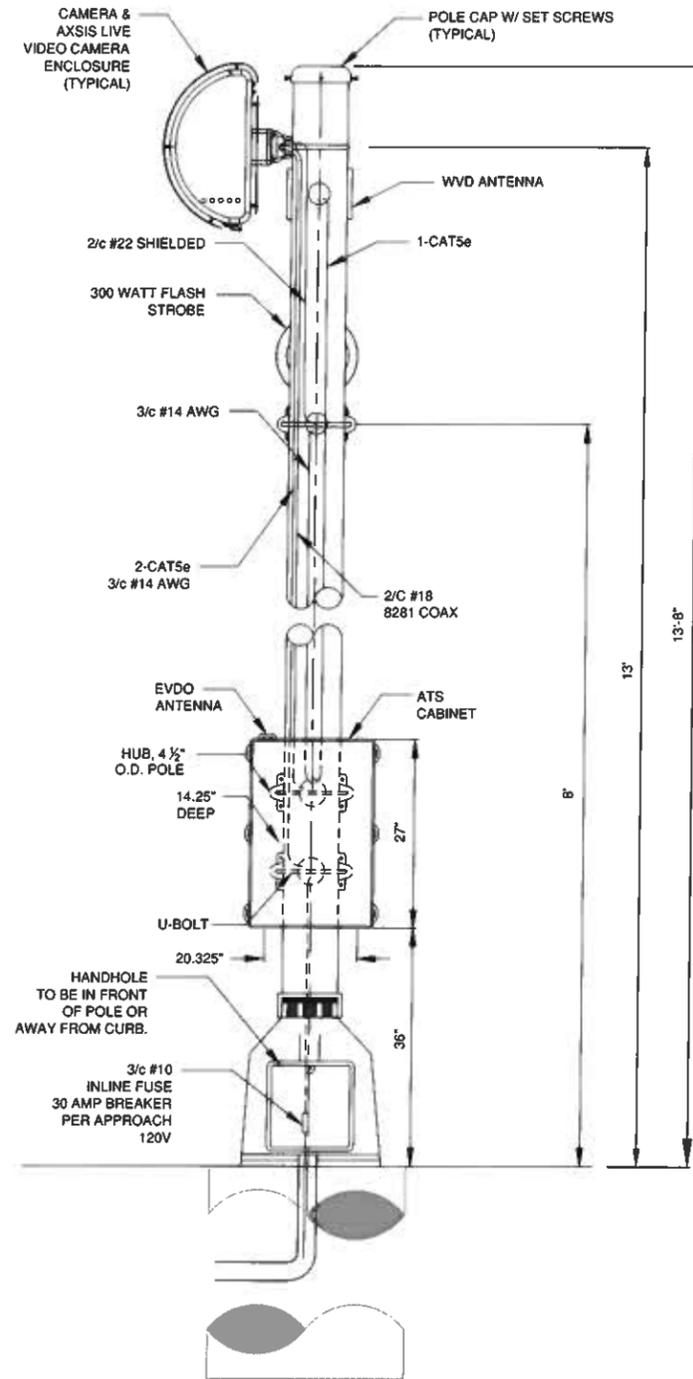


NOTES:

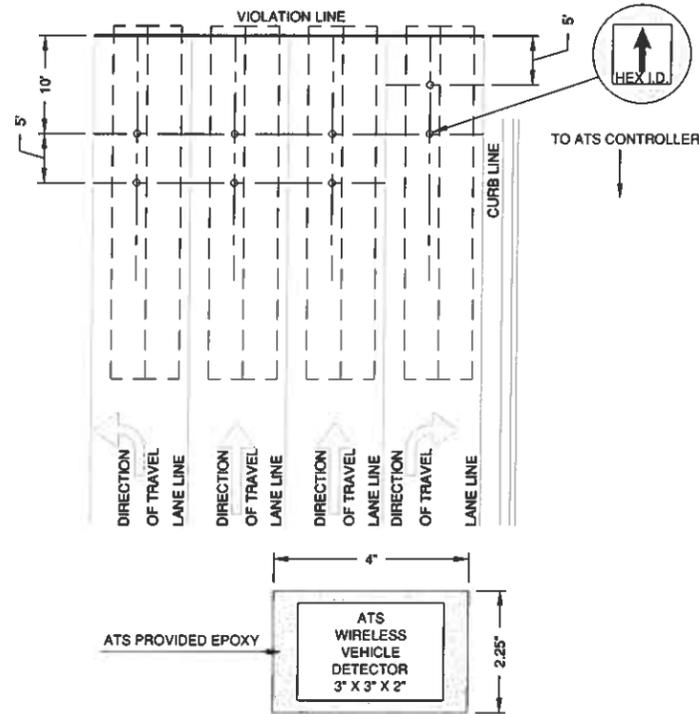
1. CONTRACTOR SHALL REMOVE POLE, EQUIPMENT, AND CABLING. FOUNDATION TO BE REMOVED AND NEW ATS PULL BOX TO BE INSTALLED.
2. TERMINATE AT EXISTING TRAFFIC PAX CABINET FOR POWER.
3. CONTRACTOR SHALL REPLACE EXISTING TRAFFIC PAX PHASE DETECTION WITH APPROVED CR9350-ACA PHASE DETECTION.



<p>RED LIGHT PHOTO ENFORCEMENT PROGRAM</p>	<p>7681 E. GRAY RD SCOTTSDALE, AZ 85260 USA TEL: (480)443-7000 FAX: (480)607-0901 WWW.ATSOL.COM</p>	<p>PLAN SHEET</p> <p>WB WRIGHTSVILLE AVE AT COLONIAL DR / COUNTRY CLUB RD Wilmington, NC</p>				<table border="1"> <thead> <tr> <th>NO.</th> <th>BY</th> <th>DATE</th> <th>REVISION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	BY	DATE	REVISION																	<table border="1"> <thead> <tr> <th>NO.</th> <th>BY</th> <th>DATE</th> <th>REVISION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	BY	DATE	REVISION																	<p>1ST SUBMITTAL</p> <p>DESIGNED BY: SM</p> <p>DATE: 09-27-10</p> <p>APPROVED BY:</p> <p>APPROVAL DATE:</p>	<p>JOB NUMBER</p> <p>1259</p> <p>SITE ID(S)</p> <p>WI511</p>	<p>SHEET NUMBER</p> <p>2</p> <p>OF 4 SHEETS</p>
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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/CHISLE 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.

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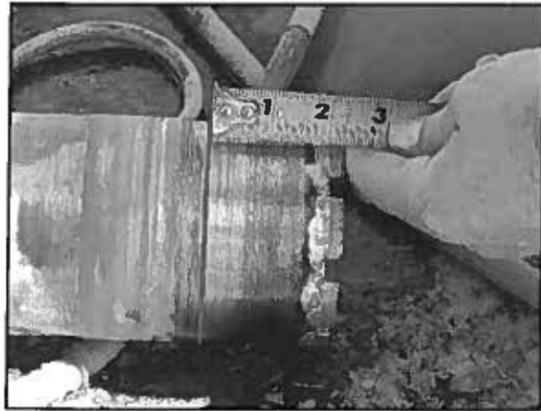


IMAGE #1

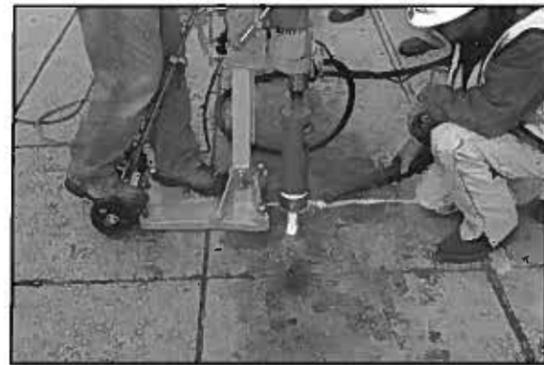


IMAGE #2



IMAGE #3

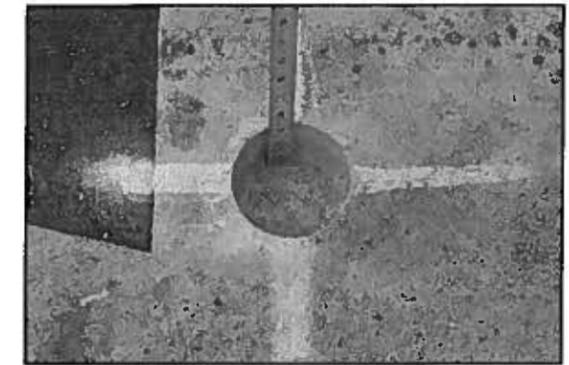


IMAGE #4



IMAGE #5



IMAGE #6



IMAGE #7

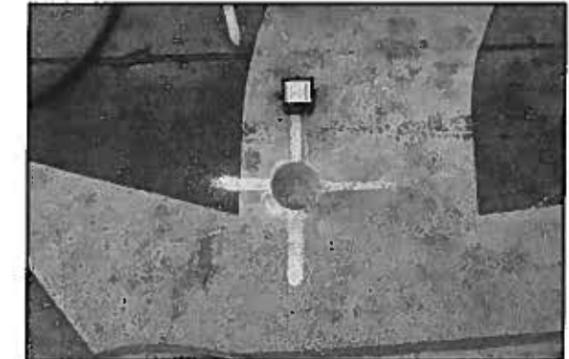


IMAGE #8



IMAGE #9



IMAGE #10

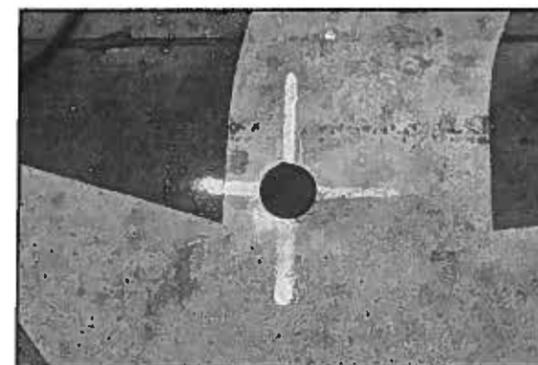


IMAGE #11