

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
S. 3RD ST AT WOOSTER ST / US 76

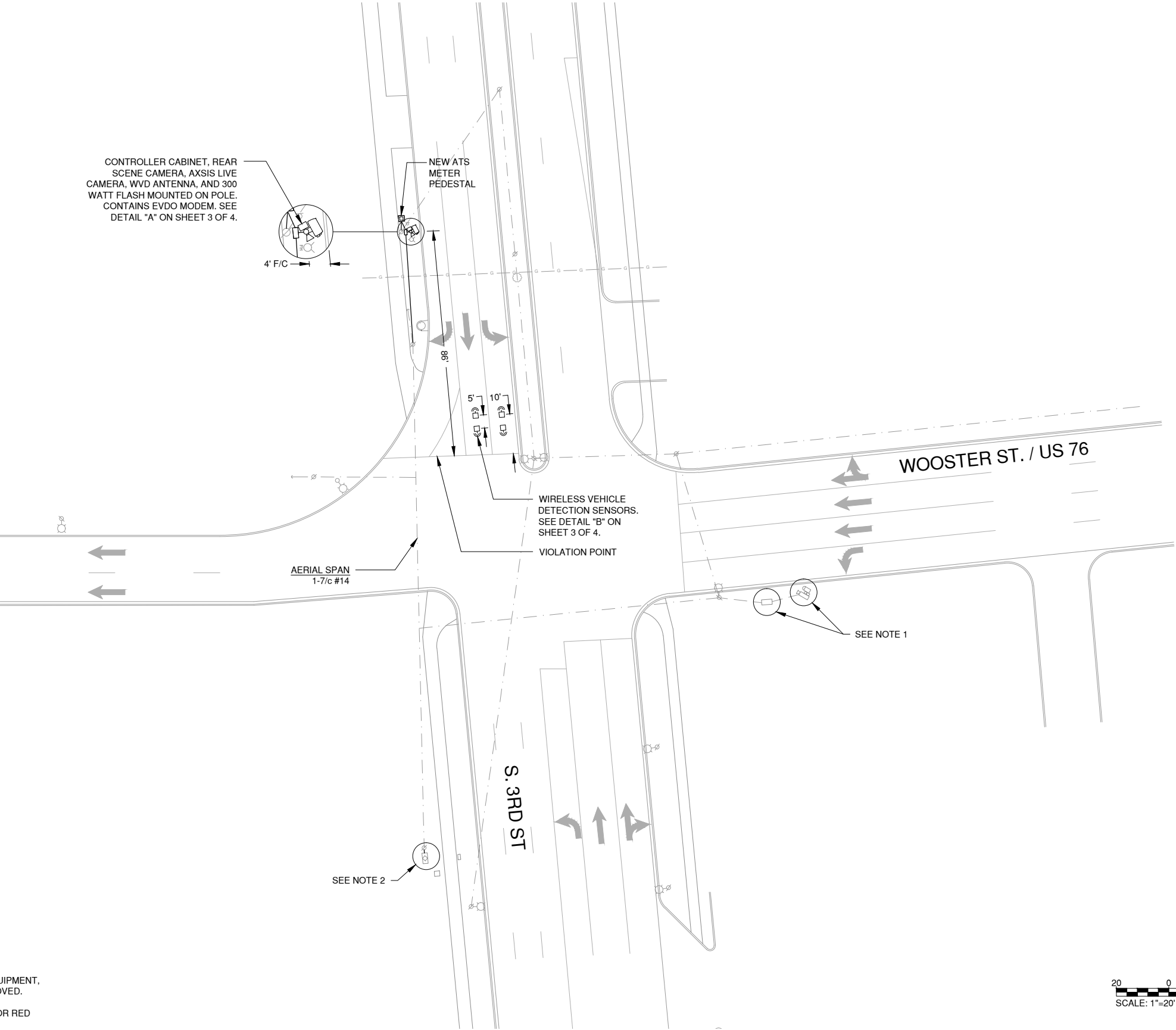


SHEET INDEX

SHEET NO.	SITE ID	DESCRIPTION
1		COVER SHEET
2	WI504	INTERSECTION PLAN - SB S. 3RD ST AT WOOSTER ST / US 76
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:
- 1. CONTRACTOR SHALL REMOVE POLE, EQUIPMENT, AND CABLING. FOUNDATION TO BE REMOVED.
 - 2. TERMINATE AT TRAFFIC CONTROLLER FOR RED AND AMBER PHASE.

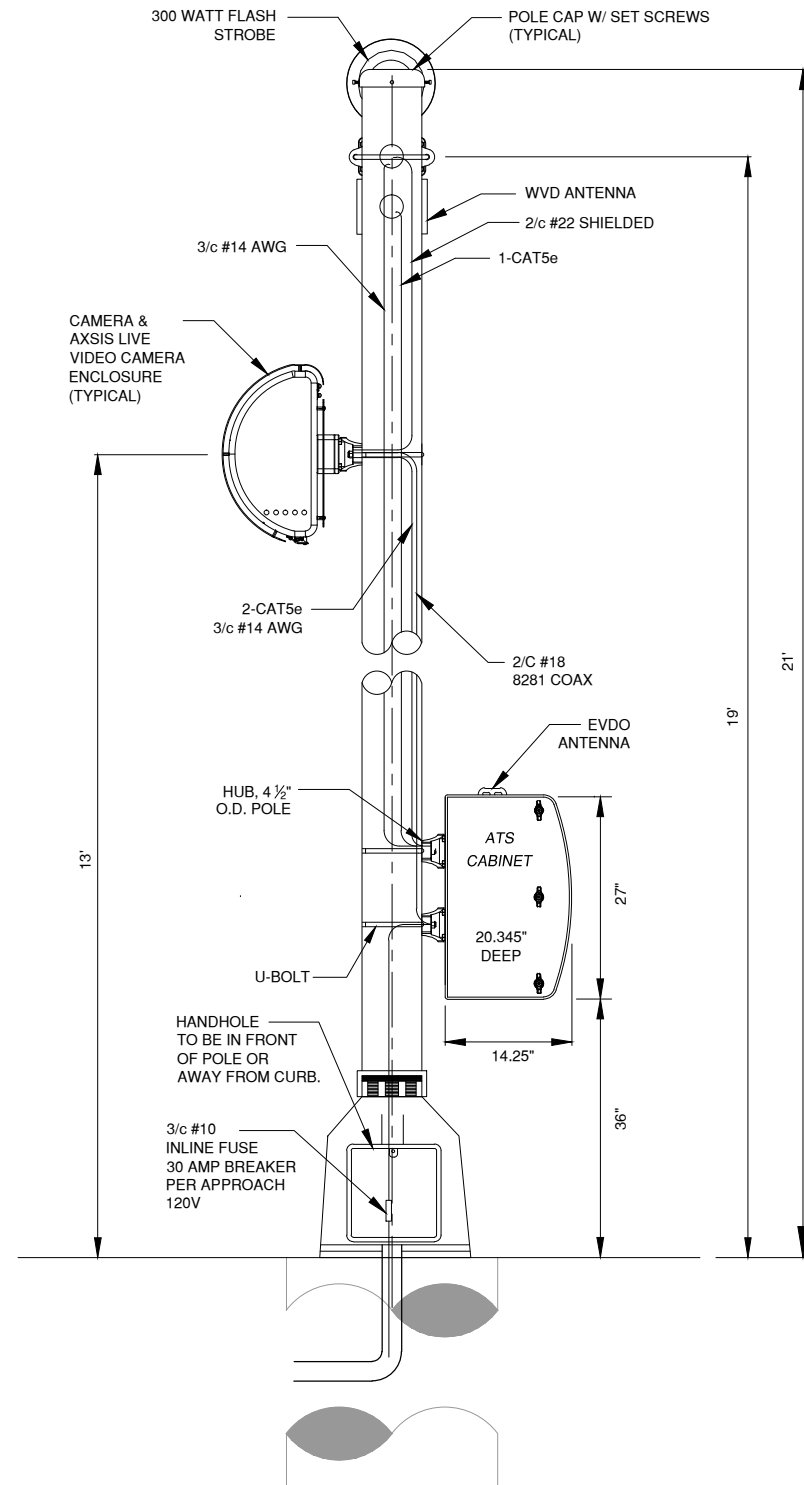


NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION

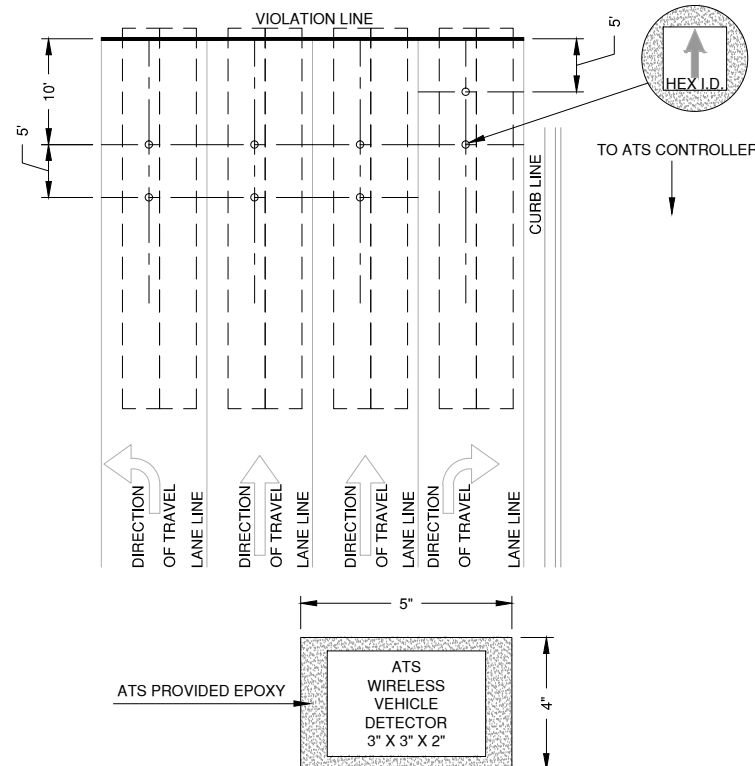
1ST SUBMITTAL
DESIGNED BY: SM
DATE: 08-03-10
APPROVED BY:
APPROVAL DATE:

JOB NUMBER
1259
SITE ID(S)
WI504

SHEET
NUMBER
2
OF 4 SHEETS



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



DETAIL "B"
WVD VEHICLE DETECTION
SENSOR 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 5 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.



IMAGE #1



IMAGE #2



IMAGE #3



IMAGE #4



IMAGE #5



IMAGE #6



IMAGE #7



IMAGE #8



IMAGE #9



IMAGE #10

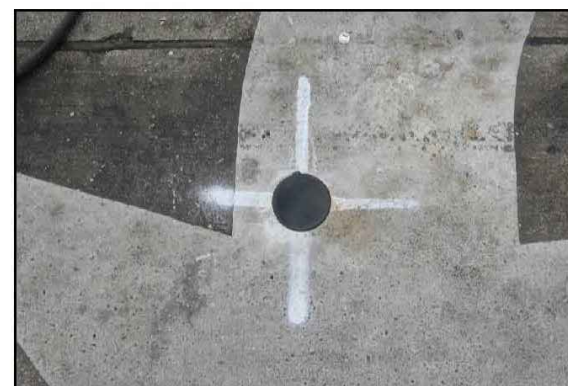


IMAGE #11