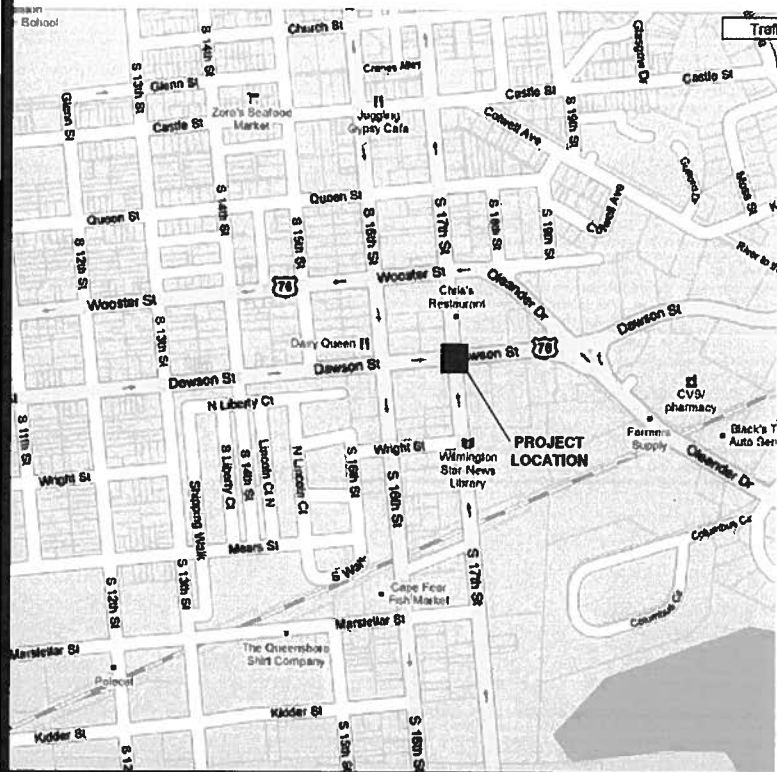


CITY OF WILMINGTON, NORTH CAROLINA

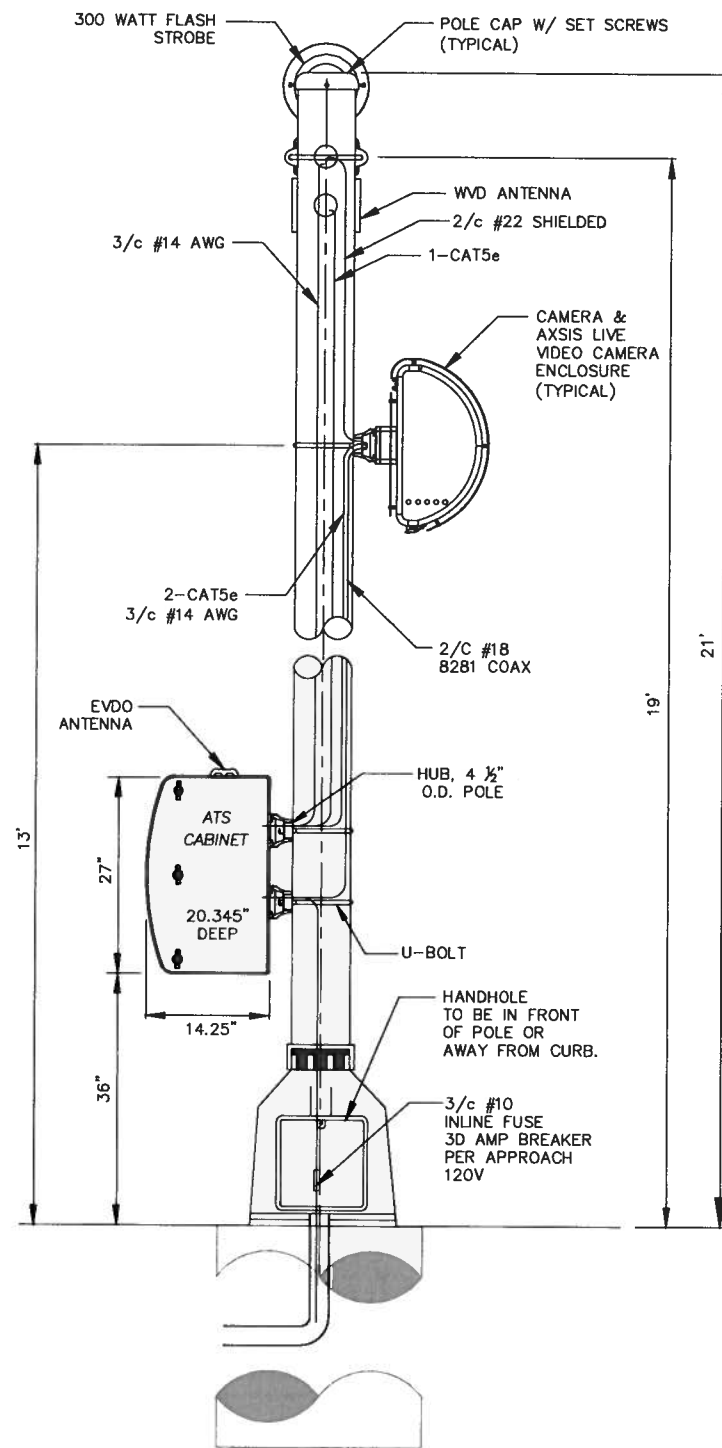
PROJECT PLANS FOR THE CONSTRUCTION OF
RED TRAFFIC LIGHT MONITORING FACILITIES
AT THE INTERSECTION OF
DAWSON ST/US 76 AT S 17TH ST/SR 1219



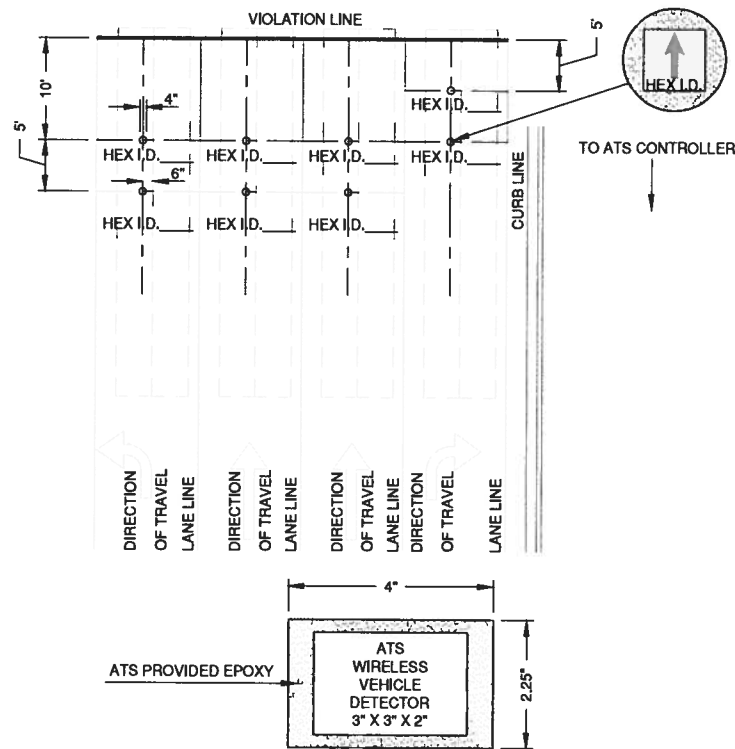
SHEET INDEX

SHEET NO.	SITE ID	DESCRIPTION
1		TITLE SHEET
2	W106	INTERSECTION PLAN - NB DAWSON ST/US 76 AT S 17TH ST/SR 1219
3-4		ATS STANDARD DETAILS

NO.	BY	DATE	REVISION	NO.	BY	DATE	REVISION



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



DETAIL "B"
WIRELESS 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 OF 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 IMAGE 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)

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.

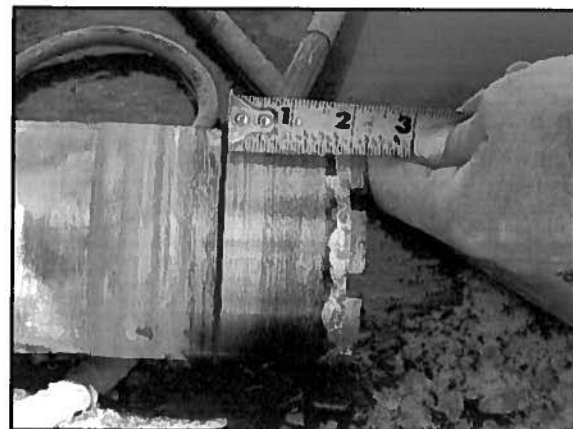


IMAGE #1



IMAGE #2



IMAGE #3

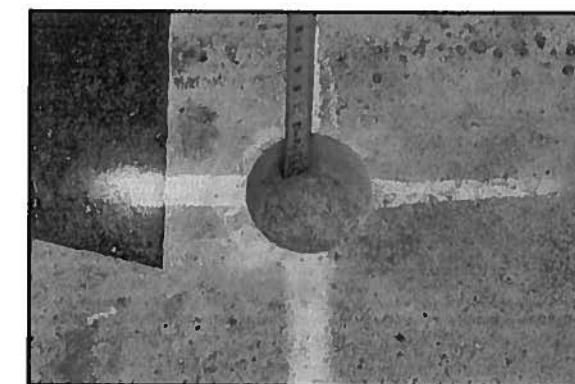


IMAGE #4



IMAGE #5



IMAGE #6



IMAGE #7

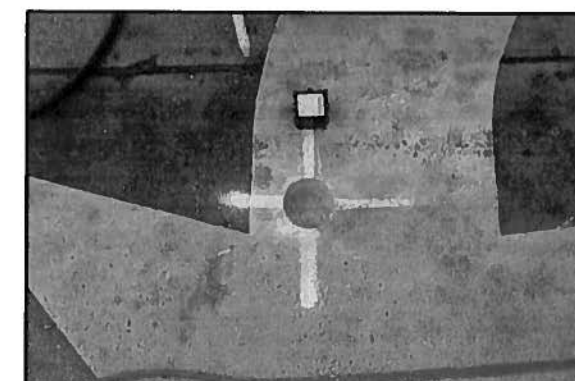


IMAGE #8



IMAGE #9



IMAGE #10

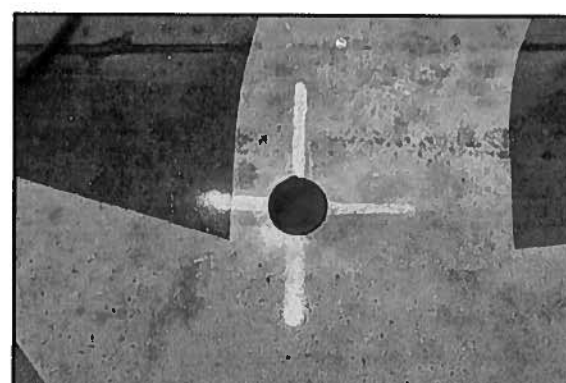


IMAGE #11