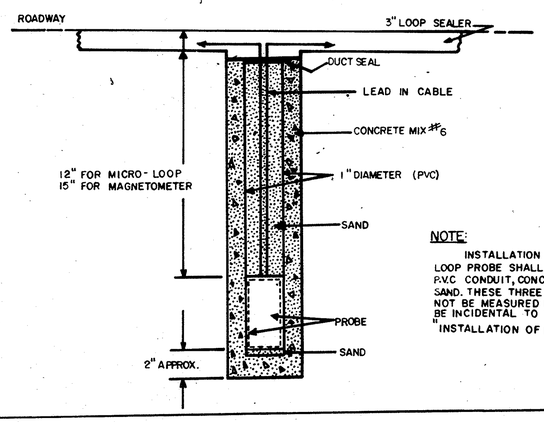
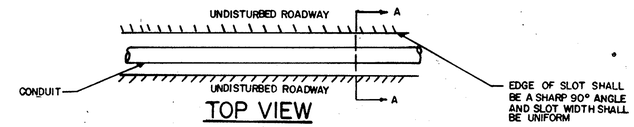
F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD.			

TYPICAL FOR MICRO - LOOP/MAGNETOMETER INSTALLATION

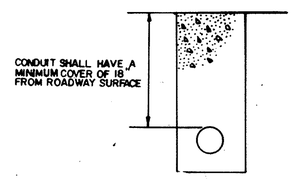


NOTE:
INSTALLATION OF MICRO - LOOP PROBE SHALL INCLUDE 1" P.V.C CONDUIT, CONCRETE AND SAND. THESE THREE ITEMS WILL NOT BE MEASURED BUT SHALL BE INCIDENTAL TO THE PAY ITEM "INSTALLATION OF MICRO-LOOP".

SLOT TRENCH CONDUIT IN PAVEMENT

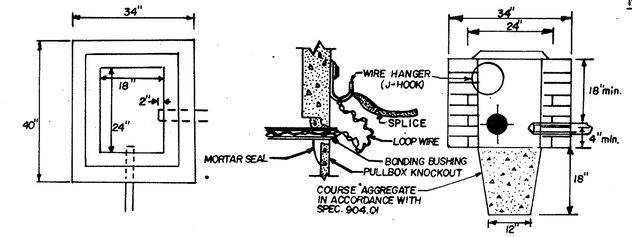


TOP VIEW



SECTION A-A

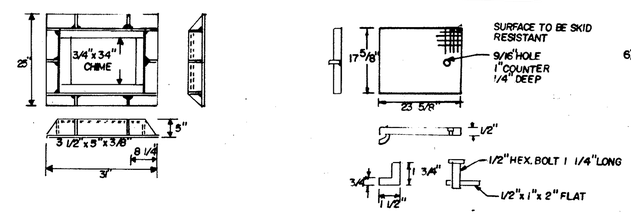
TYPICAL FOR HANDBOX CONSTUCTION



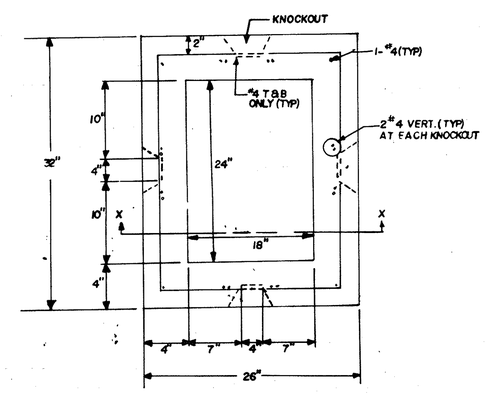
NOTES:

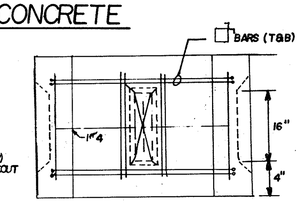
1) ANY SPACES BETWEEN THE CONDUIT AND THE HANDBOX WALL SHALL BE PATCHED WITH CONCRETE OR OTHER SEALER APPROVED BY THE ENGINEER.
2) ALL METAL CONDUIT ENDS SHALL BE BONDED WITH OTHER CONDUIT ENDS BY USING BONDING BUSHINGS AND NO.8 AWG COPPER WIRE.
3) ALL ELECTRICAL CABLES ARE REQ'D TO HAVE 3' SLACK IN HANDBOX. THIS WIRE IS TO BE SECURED IN THE HANDBOX SO IT DOES NOT LAY ON THE BOTTOM OF THE HANDBOX.
4) HANDBOX FRAME & COVER SHALL BE GALVANIZED PER ASTM A 123
5) WHEN ALL CONDUIT AND ELECTRICAL WIRE IS IN PLACE, THE END OF THE CONDUITS SHALL BE SEALED WITH DUCT SEALER OR OTHER PLIABLE MATERIAL AS APPROVED BY THE ENGINEER.
6) WALLS (IF APPLICABLE) SHALL BE BRICK OR CONCRETE BLOCK (NO CINDER BLOCK). ONLY FINAL COURSE SHALL BE CAPPED (NO VOIDS USING CONCRETE BLOCK).

TYPICAL HANDBOX FRAME AND COVER



ALTERNATE HANDBOX PRECAST CONCRETE



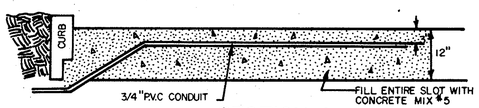


SECTION X-X

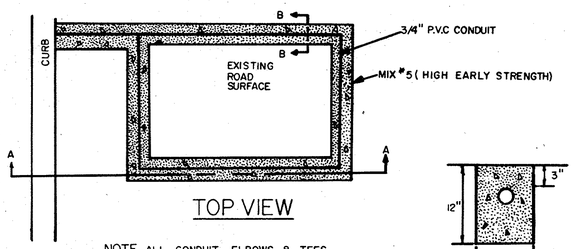
NOTES:

1) CONCRETE 5000 PSI
2) NO REBAR KNOCKOUTS
3) FULL CONCRETE DIMENSIONS REQUIRED. ANY AIR POCKET MUST BE PATCHED BEFORE SHIPMENT.
4) ALL REBAR IS TO BE PLACED IN THE CENTER OF WALLS
5) MINIMUM CONCRETE COVER FOR REBAR 1-1/2" REQUIRED
6) ALL APPLICABLE NOTES FROM STANDARD HANDBOX CONSTRUCTION SHALL ALSO BE SATISFIED.

TYPICAL FOR P.V.C LOOP PLACEMENT



SECTION A-A

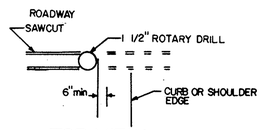


TOP VIEW

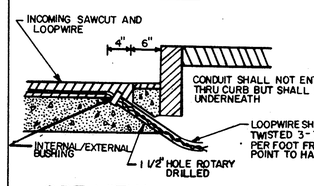
NOTE ALL CONDUIT ELBOWS & TEES SHALL HAVE ACCESS COVERS FOR EASE OF WIRE INSTALLATION

SECTION B-B

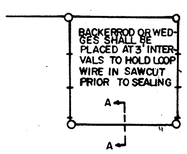
SAWCUT & CURB ENTRANCE DETAIL

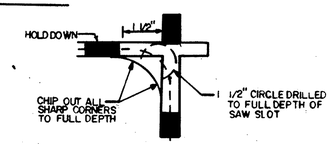


TOP VIEW

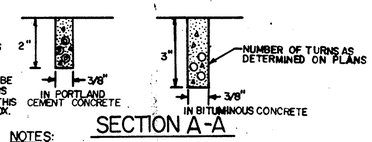


SIDE VIEW





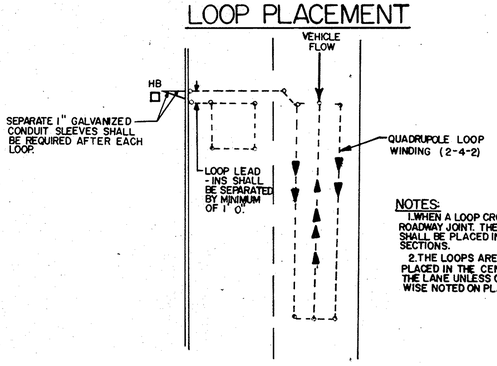
NOTES:
1. PLACE THE LOOPWIRE NEAR THE CENTER OF THE CORNER TO ALLOW THE SEALANT TO FLOW ON BOTH SIDES OF THE WIRE.
2. THERE SHALL BE NO SPLICING ALLOWED EXCEPT IN HANDBOX AND SPLICE SHALL CONFORM TO TYPICAL.



SECTION A-A

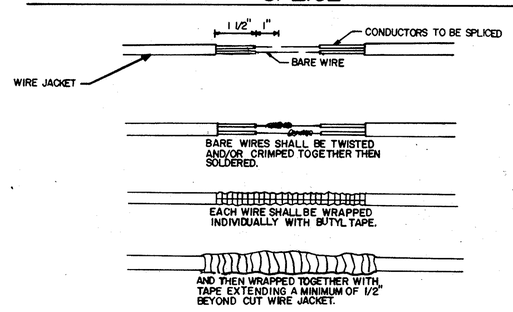
NOTES:
1. ALL ROTARY DRILL HOLES TO BE DONE PRIOR TO SAWCUTTING.
2. ENTIRE SLOT SHALL BE FILLED WITH LOOP SEALANT.

LOOP PLACEMENT



NOTES:
1. WHEN A LOOP CROSSES A ROADWAY JOINT, THE LOOP SHALL BE PLACED IN TWO SECTIONS.
2. THE LOOPS ARE TO BE PLACED IN THE CENTER OF THE LANE UNLESS OTHERWISE NOTED ON PLANS.

LOOP DETECTOR LEAD IN TO SHIELDED CABLE SPLICE



NOTE:
THE FINISHED SPLICE SHALL BE TREATED WITH WATERPROOF SCOTCH GUARD COATING OR A HEAT SHRINK TUBING

	REVISIONS
APPROVAL: CHIEF SIGNAL DESIGN SECTION	
APPROVAL: N/A DISTRICT TRAFFIC ENGINEER	
APPROVAL: CHIEF BUREAU OF TRAFFIC ENGINEERING 5-30-85	
APPROVAL: DEPUTY CHIEF ENGINEER OFFICE OF TRAFFIC	

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
BUREAU OF TRAFFIC ENGINEERING
OFFICE OF TRAFFIC

TYPICAL SHEET NO. 1

SCALE | DATE 4-30-85 | CONTRACT NO.

DRAWN BY: REGGIE SHEPPARD | COUNTY:

DESIGNED BY: | SIGNAL NO.:

CHECKED BY:

DRAWING NO. TS-