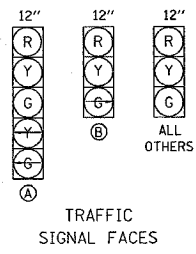
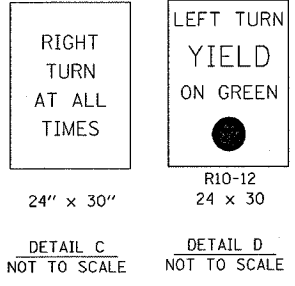
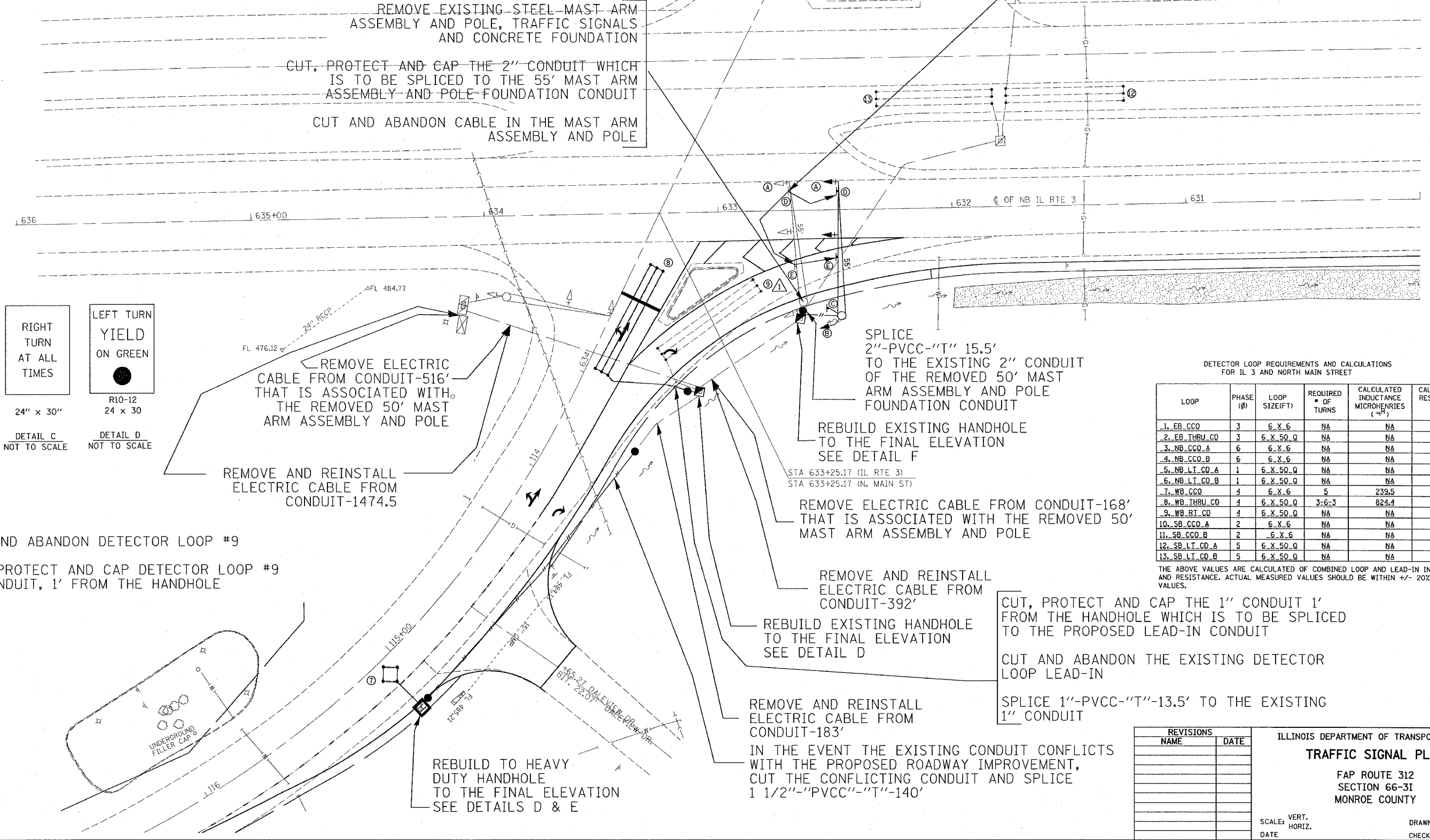
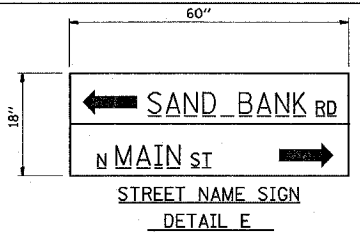


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	66-31	MONROE	45	24
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		



TRAFFIC SIGNAL FACES	TRAFFIC SIGNAL ELECTRICAL CABLES
(A)	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 7C
(B) & ALL OTHERS	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.14 5C



REMOVE EXISTING STEEL-MAST ARM ASSEMBLY AND POLE, TRAFFIC SIGNALS AND CONCRETE FOUNDATION

CUT, PROTECT AND CAP THE 2" CONDUIT WHICH IS TO BE SPLICED TO THE 55' MAST ARM ASSEMBLY AND POLE FOUNDATION CONDUIT

CUT AND ABANDON CABLE IN THE MAST ARM ASSEMBLY AND POLE

REMOVE ELECTRIC CABLE FROM CONDUIT-516' THAT IS ASSOCIATED WITH THE REMOVED 50' MAST ARM ASSEMBLY AND POLE

REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT-1474.5

CUT AND ABANDON DETECTOR LOOP #9

CUT, PROTECT AND CAP DETECTOR LOOP #9 1" CONDUIT, 1' FROM THE HANDHOLE

SPLICE 2"-PVCC-"T" 15.5' TO THE EXISTING 2" CONDUIT OF THE REMOVED 50' MAST ARM ASSEMBLY AND POLE FOUNDATION CONDUIT

REBUILD EXISTING HANDHOLE TO THE FINAL ELEVATION SEE DETAIL F

REMOVE ELECTRIC CABLE FROM CONDUIT-168' THAT IS ASSOCIATED WITH THE REMOVED 50' MAST ARM ASSEMBLY AND POLE

REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT-392'

REBUILD EXISTING HANDHOLE TO THE FINAL ELEVATION SEE DETAIL D

REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT-183'

IN THE EVENT THE EXISTING CONDUIT CONFLICTS WITH THE PROPOSED ROADWAY IMPROVEMENT, CUT THE CONFLICTING CONDUIT AND SPLICE 1 1/2"-PVCC-"T"-140'

REBUILD TO HEAVY DUTY HANDHOLE TO THE FINAL ELEVATION SEE DETAILS D & E

CUT, PROTECT AND CAP THE 1" CONDUIT 1' FROM THE HANDHOLE WHICH IS TO BE SPLICED TO THE PROPOSED LEAD-IN CONDUIT

CUT AND ABANDON THE EXISTING DETECTOR LOOP LEAD-IN

SPLICE 1"-PVCC-"T"-13.5' TO THE EXISTING 1" CONDUIT

DETECTOR LOOP REQUIREMENTS AND CALCULATIONS FOR IL 3 AND NORTH MAIN STREET

LOOP	PHASE (Ø)	LOOP SIZE(FT)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (µH)	CALCULATED RESISTANCE OHMS (Ω)
1. EB_CCO	3	6 X 6	NA	NA	NA
2. EB_THRU_CD	3	6 X 50.0	NA	NA	NA
3. NB_CCO_A	6	6 X 6	NA	NA	NA
4. NB_CCO_B	6	6 X 6	NA	NA	NA
5. NB_LT_CD_A	1	6 X 50.0	NA	NA	NA
6. NB_LT_CD_B	1	6 X 50.0	NA	NA	NA
7. WB_CCO	4	6 X 6	5	239.5	1.9
8. WB_THRU_CD	4	6 X 50.0	3-6-3	824.4	2.5
9. WB_RT_CD	4	6 X 50.0	NA	NA	NA
10. SB_CCO_A	2	6 X 6	NA	NA	NA
11. SB_CCO_B	2	6 X 6	NA	NA	NA
12. SB_LT_CD_A	5	6 X 50.0	NA	NA	NA
13. SB_LT_CD_B	5	6 X 50.0	NA	NA	NA

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL PLAN
 FAP ROUTE 312
 SECTION 66-31
 MONROE COUNTY

SCALE: VERT. _____
 HORIZ. _____
 DATE _____ DRAWN BY _____
 CHECKED BY _____

PLOT DATE = 2/7/2006
 FILE NAME = c:\projects\115\electrical\top\115386.dgn
 PLOT SCALE = 28.0000 / IN.
 REFERENCE = #REF#