

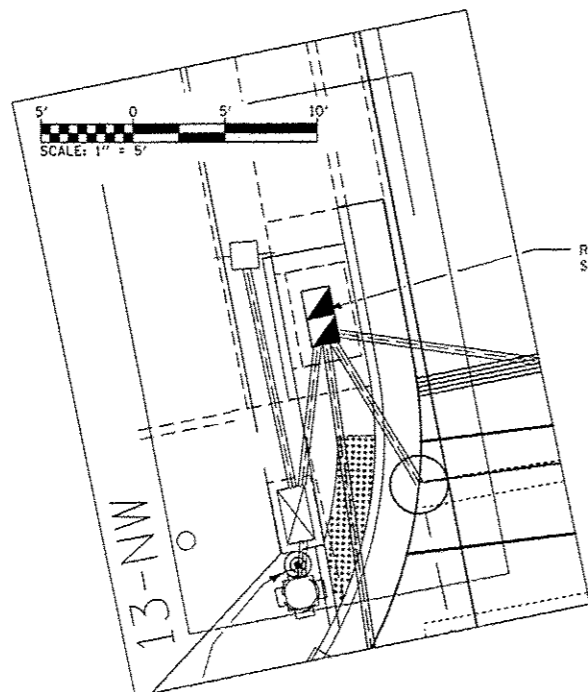
DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 203 & MANLEY AVE.

LOOP#	PHASE #	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES	CALCULATED RESISTANCE OHMS
1. EB LT CD	4	6 X 40-0	3-6-3	666.6	2.0
2. EB THRU CD	4	6 X 40-0	3-6-3	663.9	1.9
3. NB THRU CD	1 & 6	6 X 50-0	3-6-3	817.7	2.3
4. EB THRU CD A	3	6 X 30-0	3-6-3	522.1	1.8
5. EB THRU CD B	3	6 X 20-0	3-6-3	369.4	1.5
6. SB THRU CD	2 & 5	6 X 50-0	3-6-3	800.1	1.9

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

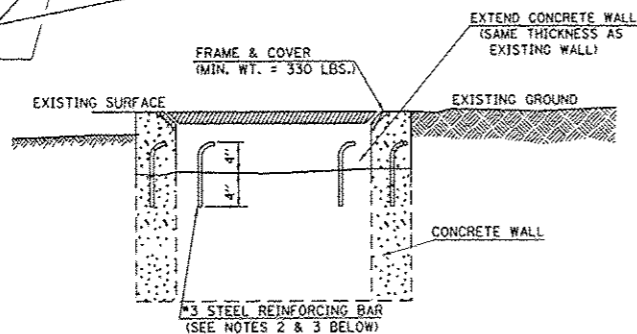
Q=QUADRAPOLE

⊙ =SEE DETAIL A



REBUILD EXISTING HANDHOLE, SPECIAL-1 EACH
SEE DETAIL BELOW

RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON-1 EACH
AFTER ADA SIDE WALK RAMP MODIFICATIONS PER
STD. SPEC. ART. 895.02 AND STD. 876001-03

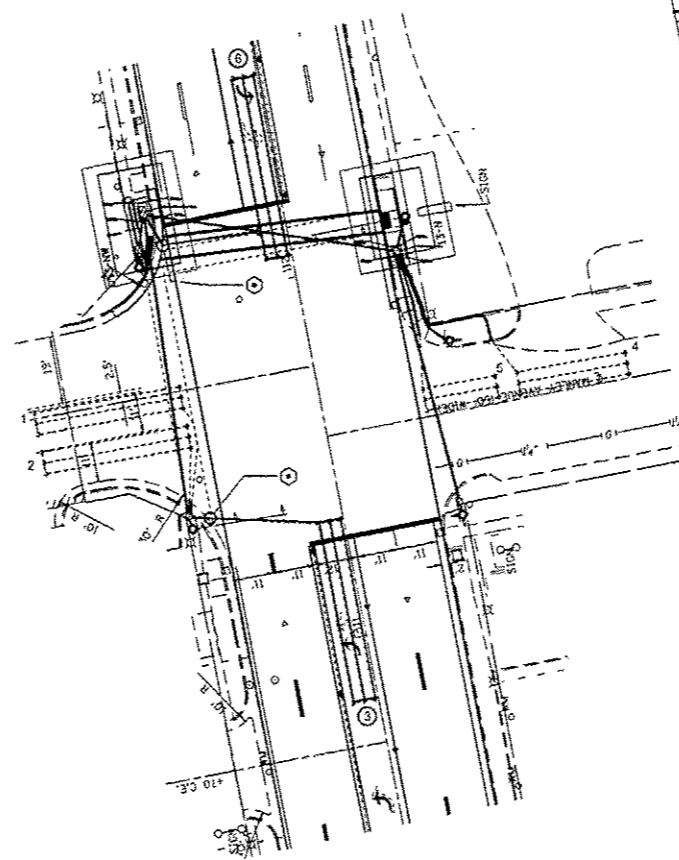


DETAIL

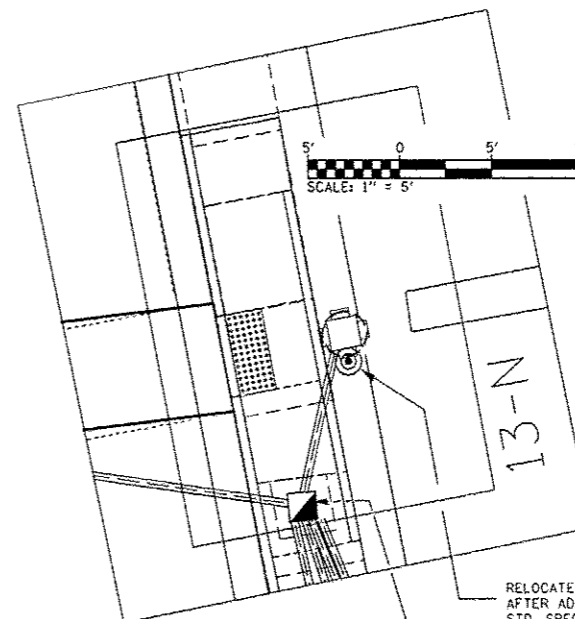
REBUILD EXISTING HANDHOLE, SPECIAL

NOTES:

1. REMOVE EXISTING FRAME AND COVER.
2. DRILL CONCRETE WALL (12 LOCATIONS EQUALLY SPACED & CENTERED)
3. INSTALL REBAR AND GROUT.
4. RAISE/LOWER ELEVATION OF CONCRETE WALLS SO THAT THE TOP OF THE INSTALLED FRAME AND COVER WILL BE THE SAME GRADE AS THE TOP OF THE PROPOSED GRADE.
5. THIS DETAIL TO BE USED IN CONJUNCTION WITH STANDARD 814006, GENERAL NOTES AND THE SPECIAL PROVISIONS "REBUILD EXISTING HANDHOLE, SPECIAL".
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE THAT MAY OCCUR TO THE EXISTING CABLES.

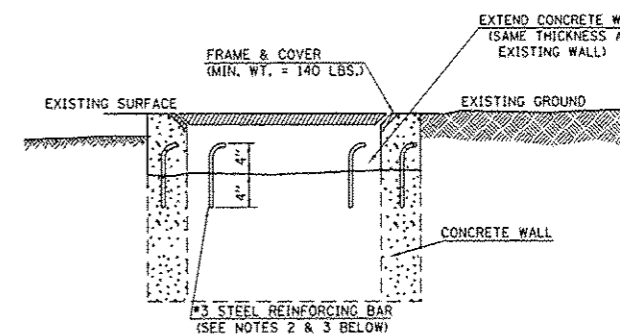


IL 203 & MANLEY AVE.



RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON-1 EACH
AFTER ADA SIDE WALK RAMP MODIFICATIONS PER
STD. SPEC. ART. 895.02 AND STD. 876001-03

REBUILD EXISTING HANDHOLE-1 EACH
SEE DETAIL BELOW



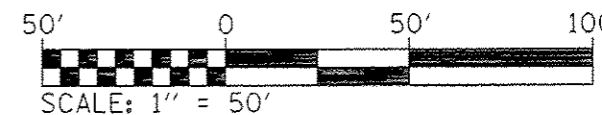
DETAIL

REBUILD EXISTING HANDHOLE

NOTES:

1. REMOVE EXISTING FRAME AND COVER.
2. DRILL CONCRETE WALL (8 LOCATIONS EQUALLY SPACED & CENTERED)
3. INSTALL REBAR AND GROUT.
4. RAISE/LOWER ELEVATION OF CONCRETE WALLS SO THAT THE TOP OF THE INSTALLED FRAME AND COVER WILL BE THE SAME GRADE AS THE TOP OF THE PROPOSED GRADE.
5. THIS DETAIL TO BE USED IN CONJUNCTION WITH STANDARD 814001, GENERAL NOTES AND THE SPECIAL PROVISIONS "REBUILD EXISTING HANDHOLE".
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE THAT MAY OCCUR TO THE EXISTING CABLES.

REVISOR'S MARK: REVISED SHEET 7-23-14



FILE NAME :	USER NAME :	DESIGNED :	REVISED :
ct:\pwork\k\pwork\prstonma\d0322003\076g24-ent-15.dgn	prstonma		
PLOT SCALE :	CHECKED :	DATE :	REVISED :
50.0000 / 1/8"			
PLOT DATE :	DATE :		
5/28/2014			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT &
ADA T.S. MODIFICATION PLAN
5 OF 5

SCALE: SHEET NO. 2 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
594	(X-3,X-2)RS-1	MADISON	52	50
CONTRACT NO. 76G24			ILLINOIS FED. AID PROJECT	