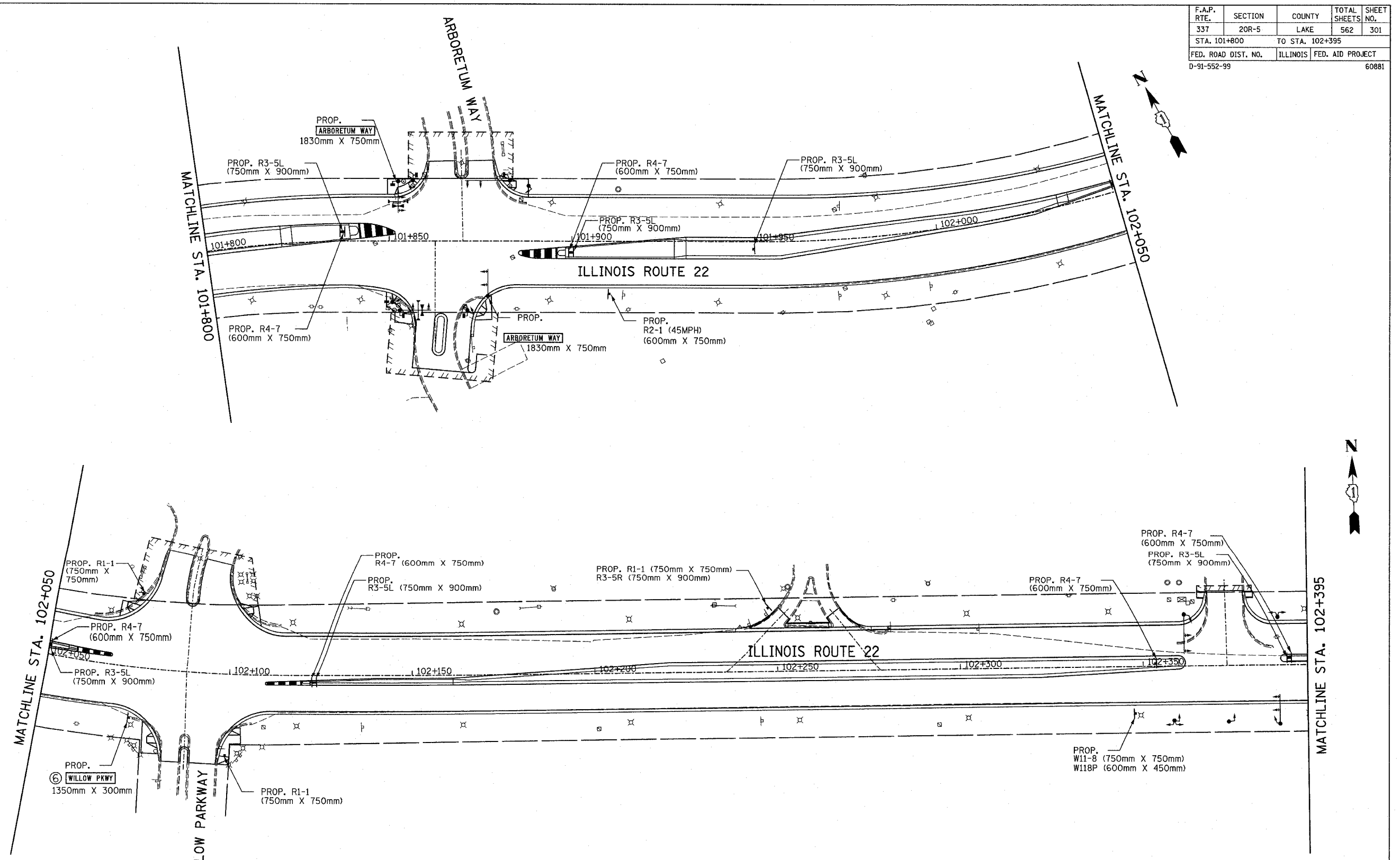


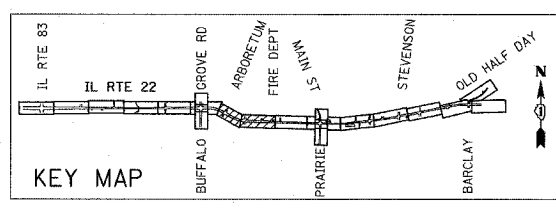
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	301
STA. 101+800		TO STA. 102+395		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99		60881		

FINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	



○ SEE DRAWING FOR "SIGN PANEL DETAILS"  
 NOTE:  
 SEE SIGNING SCHEDULE FOR  
 DETAIL INFORMATION ON SIGNS.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 SIGNING PLAN  
 STA. 101+800 TO STA. 102+395  
 SHEET 4 OF 9  
 SCALE: 1:500  
 DATE: 03-22-2004  
 DRAWN BY: AMB  
 CHECKED BY: JNR



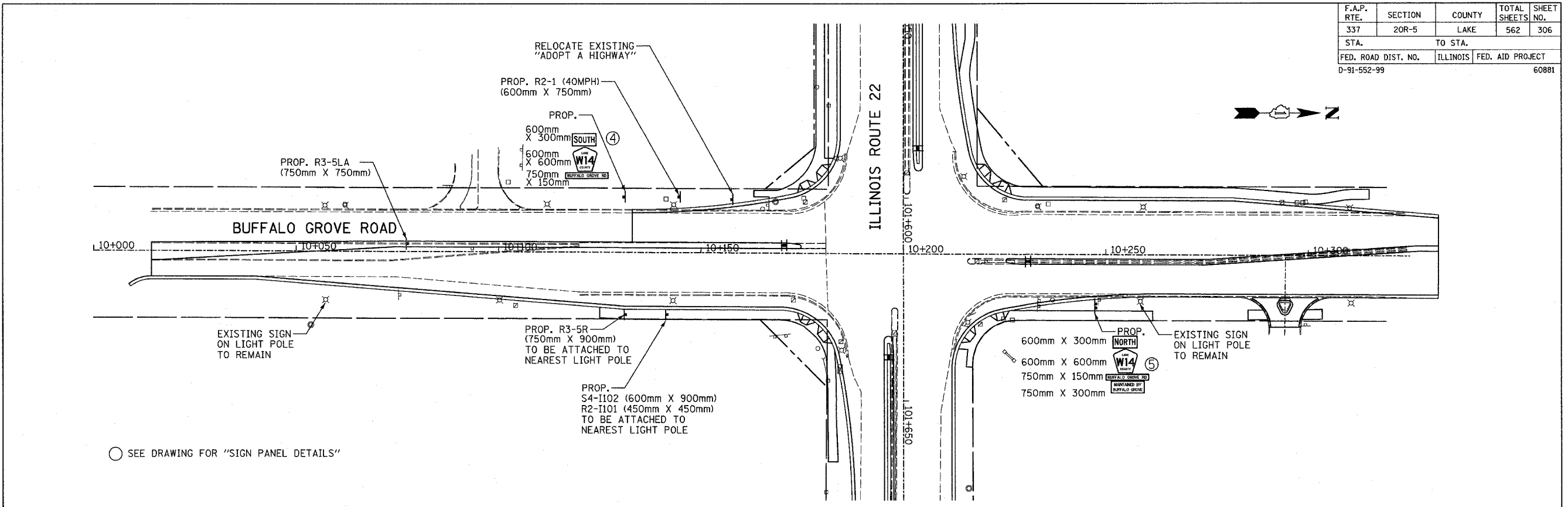






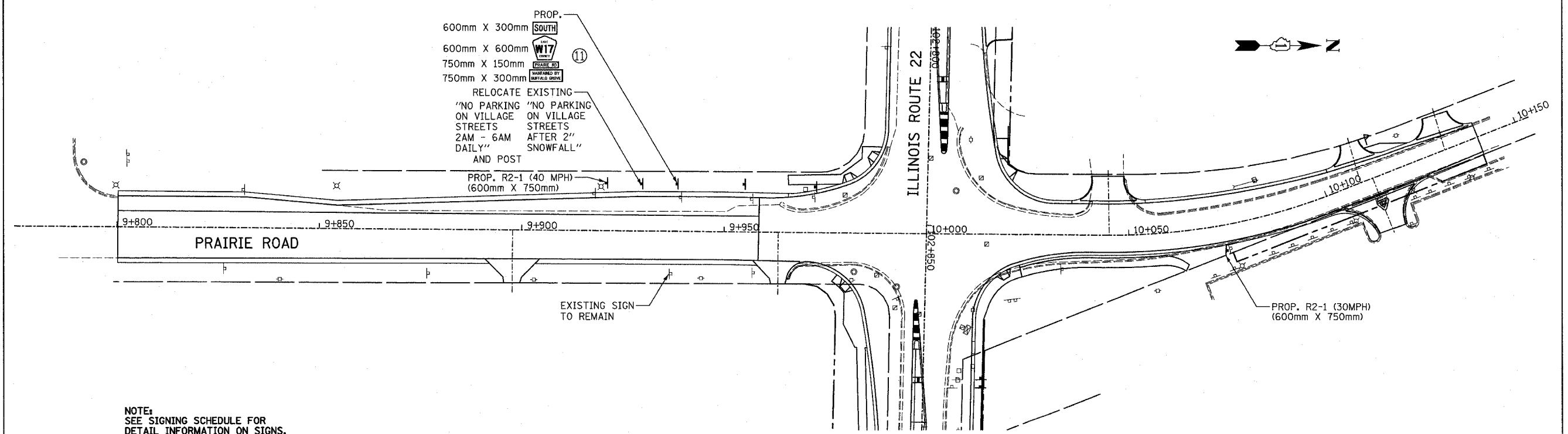
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	306
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99		60881		

BY	DATE
FINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

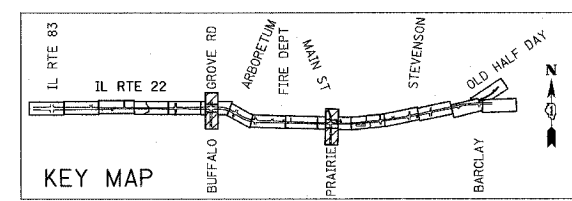


○ SEE DRAWING FOR "SIGN PANEL DETAILS"

BY	DATE
ORIGINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	



NOTE:  
SEE SIGNING SCHEDULE FOR  
DETAIL INFORMATION ON SIGNS.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
IL RTE 22 (FAP 337)  
IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
SIGNING PLAN  
BUFFALO GROVE ROAD AND PRAIRIE ROAD  
SHEET 9 OF 9  
SCALE: 1:500  
DATE: 03-22-2004  
DRAWN BY:  
CHECKED BY: JNR



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	308
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99		60881		

IL ROUTE 22 (HALF DAY ROAD) - SCHEDULE OF SIGNS

IL ROUTE 22 (HALF DAY ROAD) - SCHEDULE OF SIGNS

APPROX. STATION	TYPE	SIGN PANEL WIDTH mm	SIGN PANEL HEIGHT mm	AREA mm <sup>2</sup>	POST TYPE	POST QUANTITY	LENGTH m	CONCRETE FOUNDATIONS ea	REMARKS	
102+395	LT	A	600	450	0.270	ON SAME POST AS ABOVE			W11-8P	
102+419	LT	B	750	900	0.675	A	2	4.1	R3-5L	
102+419	LT	B	600	750	0.450	ON SAME POST AS ABOVE			R4-7	
102+436	RT	B	750	750	0.563	B	2	4.5	R3-2	
102+436	RT	B	969	450	0.436	ON SAME POST AS ABOVE			6AM - 9AM MON-FRI	
102+439	LT	1	750	750	0.563	B	1	4.05	R1-1	
102+440	LT								RELOCATE "EASTON AVE" AND POST	
102+460	LT	1	600	750	0.450	B	1	4.05	R4-7	
102+461	RT								RELOCATE "EASTON AVE" AND POST	
102+463	LT	B	750	750	0.563	B	2	4.5	R3-2	
102+463	LT	B	969	450	0.436	ON SAME POST AS ABOVE			BLACK ON WHITE- 6AM - 9AM MON-FRI	
102+554	LT	B	1200	450	0.540	WOOD	1	4.8	1	VILLAGE NAME WHITE ON GREEN- BUFFALO GROVE 43000
102+554	LT	B	600	750	0.450	ON SAME POST AS ABOVE			R2-1 (45MPH)	
102+555	RT	B	1350	450	0.608	WOOD	2	4.8	2	WHITE ON GREEN - PRAIRIE VIEW UNINCORPORATED
102+555	RT	B	600	750	0.450	ON SAME POST AS ABOVE			R2-1 (35MPH)	
102+648	LT	B	750	900	0.675	A	2	4.10	R3-5L	
102+648	LT	B	600	750	0.450	ON SAME POST AS ABOVE			R4-7	
102+671	LT								RELOCATE "FIORE NURSERY" AND POSTS	
102+698	LT	1	600	750	0.450	B	1	4.05	R4-7	
102+747	RT								RELOCATE METRA AND ARROW	
102+800	RT	1	900	900	0.810	A	2	4.1	W10-1	
102+814	LT	B	750	900	0.675	A	2	4.10	R3-5L	
102+814	LT	B	600	750	0.450	ON SAME POST AS ABOVE			R4-7	
102+868	LT								RELOCATE EXISTING "PRAIRIE VIEW SIGNS" BY OTHERS	
102+887	LT					B	1	4.35	RELOCATE "VERNON TOWNSHIP CENTER"	
102+888	RT	B	750	900	0.675	A	2	4.10	R3-5L	
102+888	RT	B	600	750	0.450	ON SAME POST AS ABOVE			R4-7	
102+889	LT					B	1	4.35	RELOCATE METRA AND ARROW	
102+906	RT	1	600	750	0.450	B	1	4.05	R8-8	
102+929	LT	1	600	750	0.450	B	1	4.05	R8-8	
102+929	LT	1	900	900	0.810	ON SAME POST AS ABOVE			CAUTION (BLACK ON YELLOW)	
102+929	LT	1	900	900	0.810	ON SAME POST AS ABOVE			125 FT BETWEEN TRACKS AND HIGHWAY (BLACK ON WHITE)	
102+940	LT	1	1050	300	0.315	WOOD	1	3.9	1	STREET NAME - WHITE ON GREEN PRAIRIE RD
102+943	RT	1	750	750	0.563	B	1	4.05	R3-2	

APPROX. STATION	TYPE	SIGN PANEL WIDTH mm	SIGN PANEL HEIGHT mm	AREA mm <sup>2</sup>	POST TYPE	POST QUANTITY	LENGTH m	CONCRETE FOUNDATIONS ea	REMARKS	
102+945	LT	1	750	750	0.563	B	1	4.05	1	R1-1
102+960	LT									RELOCATE "ODD EVEN SPRINKLING RESTRICTIONS WATERING PROHIBITED NOON TO 6PM MAY 15-SEPT 15" AND POST
102+973	RT	1	750	750	0.563	B	1	4.05	R3-2	
103+029	LT	1	900	900	0.810	A	2	4.1	W10-1	
103+096	RT								RELOCATE "PRIVATE PARKING UNAUTHORIZED CARS WILL BE TOWED AWAY" AND POST	
103+105	LT	B	900	900	0.810	B	2	4.5	W3-3	
103+105	LT	B	900	300	0.270	ON SAME POST AS ABOVE			BLACK ON YELLOW-PRAIRIE RD	
103+134									RELOCATE R2-1(35MPH) AND POST	
103+161									RELOCATE R2-1(35MPH) AND POST	
103+196	RT								RELOCATE "PRIVATE PARKING UNAUTHORIZED CARS WILL BE TOWED AWAY" AND POST	
103+184	LT	B	750	900	0.675	A	2	4.10	R3-5L	
103+184	LT	B	600	750	0.450	ON SAME POST AS ABOVE			R4-7	
103+218	RT								RELOCATE PRIVATE STOP SIGN AND POST	
103+206	LT	1	750	750	0.563	B	1	4.05	R1-1	
103+208	LT	1	750	900	0.675	A	2	4.05	R3-5R	
103+224	LT	1	750	300	0.225	A	1	3.5	STREET NAME - WHITE ON GREEN PRAIRIE LN	
103+241	RT	B	600	750	0.450	B	1	4.05	R4-7	
103+241	RT	B	750	900	0.675	ON SAME POST AS ABOVE			R3-5L	
103+254	RT								RELOCATE PRIVATE STOP SIGN AND POST	
103+322	LT	B	750	900	0.675	A	2	4.10	R3-5L	
103+322	LT	B	600	750	0.450	ON SAME POST AS ABOVE			R4-7	
103+348	LT	1	750	750	0.563	B	1	4.05	R1-1	
103+366	RT	1	750	750	0.563	B	1	4.05	R1-1	
103+367	LT	1	900	300	0.270	B	1	3.6	STREET NAME - WHITE ON GREEN APPLE HILL LN	
103+364	LT	1	600	750	0.450	B	1	4.05	R2-1(30MPH)	
103+379	RT								RELOCATE "APPLE HILL LN" AND POST	
103+388	RT	B	750	900	0.675	A	2	4.10	R3-5L	
103+388	RT	B	600	750	0.450	ON SAME POST AS ABOVE			R4-7	
103+396	RT								RELOCATE "STEVENSON HIGH SCHOOL" AND POST	
103+438	LT	B	1350	450	0.608	WOOD	2	4.05	2	WHITE ON GREEN - PRAIRIE VIEW UNINCORPORATED

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL	
SURVEY	
PLOTTED	
NOTE BOOK	
TEMPLATE	
AREAS	
CHECKED	
NO.	

- NOTES:
- SEE TRAFFIC SIGNAL PLANS FOR MAST ARM MOUNTED STREET NAME SIGN QUANTITIES.
  - REGULATORY SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
  - APPROXIMATE STATIONS ARE GIVEN FOR SIGN LOCATIONS. FINAL LOCATION OF SIGNS WILL BE DETERMINED IN THE FIELD SUBJECT TO THE ENGINEERS APPROVAL.
  - ALL SIGNS TO BE OFFSET 0.6M FROM FACE OF CURB, EXCEPT AT AREAS WITH GUARDRAIL. AT THOSE LOCATIONS SIGNS SHALL BE PLACED BEHIND THE GUARDRAIL.
  - THE ACTUAL SPEED LIMITS SHOWN ON NEW OR RELOCATED SPEED LIMIT SIGNS SHALL BE VERIFIED WITH IDOT BUREAU OF TRAFFIC PRIOR TO INSTALLATION OR RELOCATION.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 PROPOSED SIGNING SCHEDULE  
 SHEET 2 OF 4

SCALE: NONE  
 DATE: 03-22-2004

DRAWN BY: AMB  
 CHECKED BY: JNR



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	309
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99		60881		

IL ROUTE 22 (HALF DAY ROAD) - SCHEDULE OF SIGNS

APPROX. STATION	TYPE	SIGN PANEL WIDTH mm	SIGN PANEL HEIGHT mm	AREA mm <sup>2</sup>	POST TYPE	POST QUANTITY	POST LENGTH m	CONCRETE FOUNDATIONS sq	REMARKS
103+570	LT								RELOCATE R2-1(35MPH) AND POST
103+585	RT								RELOCATE "SEAT BELTS SAVE LIVES" AND POST
103+611	LT	B	750	900	0.675	A	2	4.10	R3-5L
103+611	LT	B	600	750	0.450				ON SAME POST AS ABOVE
103+673	LT								REMOVE AND STORE "STEVENSON" AND POST FOR PICKUP BY VILLAGE
103+688	RT								RELOCATE R2-1(35MPH) AND POST
103+697	LT	B	750	900	0.675	A	2	4.10	R3-5L
103+697	LT	B	600	750	0.450				ON SAME POST AS ABOVE
103+816	LT	1	750	900	0.675	A	2	4.1	R3-5R
103+827	LT	B	750	900	0.675	A	2	4.10	R3-5L
103+827	LT	B	600	750	0.450				ON SAME POST AS ABOVE
103+847	RT	A	1200	300	0.360	A	1	3.5	STREET NAME - WHITE ON GREEN MILLBROOK LN
103+871	LT	1	750	750	0.563	B	1	4.05	R1-1
103+884	RT	1	750	750	0.563	B	1	4.05	R1-1
103+886	LT								REMOVE AND STORE "HOTZ ROAD" AND POST FOR PICKUP BY VILLAGE
103+918	RT	B	750	900	0.675	A	2	4.10	R3-5L
103+918	RT	B	600	750	0.450				ON SAME POST AS ABOVE
104+030	RT								RELOCATE R2-1(35MPH) AND POST
104+082	LT								RELOCATE R2-1(35MPH) AND POST
104+085	RT	1	750	900	0.675	A	2	4.1	R3-5R
104+121	LT	B	750	900	0.675	A	2	4.10	R3-5L
104+121	LT	B	600	750	0.450				ON SAME POST AS ABOVE
104+136	RT								REMOVE AND STORE "SCHELTER RD" AND POST FOR PICKUP BY VILLAGE
104+156	LT	1	750	750	0.563	B	1	4.05	R1-1
104+167	RT	1	750	750	0.563	B	1	4.05	R1-1
104+200	RT	B	750	900	0.675	A	2	4.10	R3-5L
104+200	RT	B	600	750	0.450				ON SAME POST AS ABOVE
104+243	RT	1	600	750	0.450	B	1	4.05	R3-5L
104+328	LT								RELOCATE R2-1(35MPH) AND POST
104+336	LT	B	750	900	0.675	A	2	4.10	R3-5L
104+336	LT	B	600	750	0.450				ON SAME POST AS ABOVE
104+411	RT	B	750	900	0.675	A	2	4.10	R3-5L
104+411	RT	B	600	750	0.450				ON SAME POST AS ABOVE
104+433	RT								RELOCATE R2-1(35MPH) AND POST
104+466	RT	B	525	375	0.197	WOOD	1	4.58	1

IL 83 (MUNDELEIN ROAD) - SCHEDULE OF SIGNS

APPROX. STATION	TYPE	SIGN PANEL WIDTH mm	SIGN PANEL HEIGHT mm	AREA mm <sup>2</sup>	POST TYPE	POST QUANTITY	POST LENGTH m	CONCRETE FOUNDATIONS sq	REMARKS
9+954	LT	A	600	300	0.180	B	1	4.2	M3-3
9+954	LT	A	600	600	0.360				ON SAME POST AS ABOVE
10+031	LT	1	600	300	0.180	B	1	4.2	M3-1
10+031	LT	1	600	600	0.360				ON SAME POST AS ABOVE

BUFFALO GROVE ROAD - SCHEDULE OF SIGNS

APPROX. STATION	TYPE	SIGN PANEL WIDTH mm	SIGN PANEL HEIGHT mm	AREA mm <sup>2</sup>	POST TYPE	POST QUANTITY	POST LENGTH m	CONCRETE FOUNDATIONS sq	REMARKS
10+077	LT	1	750	750	0.563	B	1	4.05	R3-5LA
10+131	LT	1	600	300	0.180	A	2	4.25	YELLOW ON BLUE - SOUTH
10+131	LT	1	600	600	0.360				ON SAME POST AS ABOVE
10+131	LT	1	750	150	0.113				ON SAME POST AS ABOVE
10+131	RT	1	750	900	0.675	A	2	4.1	R3-5R
10+141	RT	B	600	900	0.540				ATTACHED TO NEAREST LIGHT POLE
10+141	RT	B	450	450	0.203				ATTACHED TO NEAREST LIGHT POLE
10+144	LT	1	600	750	0.450	B	1	4.05	R2-1(40MPH)
10+158									RELOCATE "ADOPT A HIGHWAY" AND POST
10+170	LT	B	750	750	0.563	B	1	4.05	R3-5LA
10+170	LT	B	600	750	0.450				ON SAME POST AS ABOVE
10+174	RT								RELOCATE FOLDING STOP SIGN ASSEMBLY
10+180	LT								RELOCATE FOLDING STOP SIGN ASSEMBLY
10+219	LT								RELOCATE FOLDING STOP SIGN ASSEMBLY
10+226	RT								RELOCATE FOLDING STOP SIGN ASSEMBLY
10+230	RT	B	750	750	0.563	B	1	4.05	R3-5LA
10+230	RT	B	600	750	0.450				ON SAME POST AS ABOVE
10+238	RT	B	600	300	0.180	WOOD	1	4.95	1
10+238	RT	B	600	600	0.360				ON SAME POST AS ABOVE
10+238	RT	B	750	150	0.113				ON SAME POST AS ABOVE
10+238	RT	B	821	300	0.246				ON SAME POST AS ABOVE

- NOTES:
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  - REGULATORY SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
  - APPROXIMATE STATIONS ARE GIVEN FOR SIGN LOCATIONS. FINAL LOCATION OF SIGNS WILL BE DETERMINED IN THE FIELD SUBJECT TO THE ENGINEER'S APPROVAL.
  - ALL SIGNS TO BE OFFSET 0.6M FROM FACE OF CURB, EXCEPT AT AREAS WITH GUARDRAIL. AT THOSE LOCATIONS SIGNS SHALL BE PLACED BEHIND THE GUARDRAIL.
  - THE ACTUAL SPEED LIMITS SHOWN ON NEW OR RELOCATED SPEED LIMIT SIGNS SHALL BE VERIFIED WITH IDOT BUREAU OF TRAFFIC PRIOR TO INSTALLATION OR RELOCATION.

BY \_\_\_\_\_ DATE \_\_\_\_\_

FINAL SURVEY PLOTTED \_\_\_\_\_

SURVEYED BY \_\_\_\_\_

NOTE BOOK NO. \_\_\_\_\_

TEMPLATE AREAS CHECKED \_\_\_\_\_

BY \_\_\_\_\_ DATE \_\_\_\_\_

ORIGINAL SURVEY PLOTTED \_\_\_\_\_

SURVEYED BY \_\_\_\_\_

NOTE BOOK NO. \_\_\_\_\_

TEMPLATE AREAS CHECKED \_\_\_\_\_

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION IL RTE 22 (FAP 337) IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE) PROPOSED SIGNING SCHEDULE SHEET 3 OF 4
NAME	DATE	

SCALE: NONE      DRAWN BY: AMB  
DATE: 03-22-2004      CHECKED BY: JNR

PRAIRIE ROAD - SCHEDULE OF SIGNS

OLD HALF DAY RD/BARCLAY RD - SCHEDULE OF SIGNS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	310
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99		60881		

APPROX. STATION	TYPE	SIGN PANEL WIDTH mm	SIGN PANEL HEIGHT mm	AREA mm <sup>2</sup>	POST TYPE	POST QUANTITY	POST LENGTH m	CONCRETE FOUNDATIONS sq	REMARKS
9+920	LT	1	600	750	0.450	B	1	4.05	R2-1(40MPH)
9+929	LT								RELOCATE "NO PARKING ON VILLAGE STREETS 2AM-6AM DAILY
9+929	LT								ON SAME POST AS ABOVE RELOCATE "NO PARKING ON VILLAGE STREETS AFTER 2" SNOWFALL"
9+954	LT	B	600	300	0.180	WOOD	1	4.35	1 YELLOW ON BLUE-SOUTH
9+954	LT	B	600	600	0.360				ON SAME POST AS ABOVE M1-5 (LAKE COUNTY W17)
9+954	LT	B	750	150	0.113				ON SAME POST AS ABOVE YELLOW ON BLUE-PRAIRIE RD
9+954	LT	B	750	300	0.225				ON SAME POST AS ABOVE YELLOW ON BLUE-
9+955	LT								MAINTAINED BY BUFFALO GROVE RELOCATE "ODD EVEN SPRINKLING RESTRICTIONS WATERING PROHIBITED NOON TO 6PM MAY 15-SEPT 15"
9+972	LT								RELOCATE "ADOPT A HIGHWAY" AND POST
9+979	RT								RELOCATE FOLDING STOP SIGN ASSEMBLY
9+979	RT	1	450	600	0.270				X10-I100
9+980	LT	1	450	600	0.270				X10-I100
9+983	LT	1	450	600	0.270				X10-I100
9+983	LT								RELOCATE FOLDING STOP SIGN ASSEMBLY
10+020	RT								RELOCATE FOLDING STOP SIGN ASSEMBLY
10+020	RT	1	450	600	0.270				X10-I100
10+020	LT	1	450	600	0.270				X10-I100
10+023	LT								RELOCATE FOLDING STOP SIGN ASSEMBLY
10+023	LT	1	450	600	0.270				X10-I100
10+083	RT	1	600	750	0.450	B	1	4.05	R2-1 (30MPH)

APPROX. STATION	TYPE	SIGN PANEL WIDTH mm	SIGN PANEL HEIGHT mm	AREA mm <sup>2</sup>	POST TYPE	POST QUANTITY	POST LENGTH m	CONCRETE FOUNDATIONS sq	REMARKS
9+79	LT								REMOVE AND STORE "HALF DAY ROAD & BARCLAY BOULEVARD" & POST FOR PICKUP BY VILLAGE
9+81	LT								RELOCATE FOLDING STOP SIGN ASSEMBLY
9+84	RT								RELOCATE FOLDING STOP SIGN ASSEMBLY
10+17	LT								RELOCATE FOLDING STOP SIGN ASSEMBLY
10+20	RT								RELOCATE FOLDING STOP SIGN ASSEMBLY
10+024	RT	1	600	750	0.450	B	1	4.05	R2-1(35MPH)
10+031	LT	1	1200	600	0.720	WOOD	1	3.6	1 W1-6
10+034	RT								RELOCATE "ADOPT A HIGHWAY" AND POST
10+054	RT	A	600	900	0.540	WOOD	1	4.35	1 S4-I102
10+054	RT	A	450	450	0.203				ON SAME POST AS ABOVE R2-I101
10+062	LT	B	750	750	0.563	WOOD	1	4.5	1 R1-1
10+062	LT	B	750	750	0.563				ON SAME POST AS ABOVE R3-2
10+070	LT	1	750	750	0.563	B	1	4.05	R3-2
10+078	LT								B 1 3.9 RELOCATE "LIBRARY ENTRANCE AHEAD" AND ARROW
10+092	RT	1	750	750	0.563	B	1	4.05	S1-1(FYG)
10+097	LT	B	750	750	0.563	WOOD	1	4.5	1 W1-1L
10+097	LT	B	600	750	0.450				ON SAME POST AS ABOVE W13-1(10MPH)
10+132	LT	B	900	900	0.810	WOOD	1	4.2	W3-3
10+132	LT	B	1050	300	0.315				ON SAME POST AS ABOVE YELLOW ON BLACK-HALF DAY RD
10+133	RT	1	600	1200	0.720	A	2	4.4	S4-I100
10+200	RT	1	750	750	0.563	B	1	4.05	S1-1(FYG)

FINAL SURVEY PLOTTED  
NOTE BOOK TEMPLATE AREAS CHECKED

BY \_\_\_\_\_ DATE \_\_\_\_\_

ORIGINAL SURVEY PLOTTED  
NOTE BOOK TEMPLATE AREAS CHECKED

BY \_\_\_\_\_ DATE \_\_\_\_\_

- NOTES:
- SEE TRAFFIC SIGNAL PLANS FOR MAST ARM MOUNTED STREET NAME SIGN QUANTITIES.
  - REGULATORY SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
  - APPROXIMATE STATIONS ARE GIVEN FOR SIGN LOCATIONS. FINAL LOCATION OF SIGNS WILL BE DETERMINED IN THE FIELD SUBJECT TO THE ENGINEERS APPROVAL.
  - ALL SIGNS TO BE OFFSET 0.6M FROM FACE OF CURB, EXCEPT AT AREAS WITH GUARDRAIL. AT THOSE LOCATIONS SIGNS SHALL BE PLACED BEHIND THE GUARDRAIL.
  - THE ACTUAL SPEED LIMITS SHOWN ON NEW OR RELOCATED SPEED LIMIT SIGNS SHALL BE VERIFIED WITH IDOT BUREAU OF TRAFFIC PRIOR TO INSTALLATION OR RELOCATION.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
IL RTE 22 (FAP 337)  
IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
PROPOSED SIGNING SCHEDULE  
SHEET 4 OF 4

SCALE: NONE  
DATE: 03-22-2004

DRAWN BY: AMB  
CHECKED BY: JNR



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	312
STA. 99+800		TO STA. 100+475		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99		60881		

BY	DATE
FINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

**SIGN DETAIL**  
SCALE 1:10

SIGN NUMBER	NORTHC
WIDTH x HEIGHT	600mm x 300mm
BORDER WIDTH	15
CORNER RADIUS	38
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE COLOR: BLUE
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: YELLOW

SYMBOL	X	Y	WID	HT
M3.1			600	300

DIMENSIONS IN mm      SPACINGS ARE TO START OF NEXT LETTER

Y FONT	LETTER SPACINGS										HT LEN		
-38	N	O	R	T	H						150		
C	-2331	107	112	102	95	83	2432						499

**SIGN DETAIL**  
SCALE 1:10

SIGN NUMBER	BLFFGROVE
WIDTH x HEIGHT	750mm x 100mm
BORDER WIDTH	10
CORNER RADIUS	15
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE COLOR: BLUE
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: YELLOW

SYMBOL	X	Y	WID	HT

DIMENSIONS IN mm      SPACINGS ARE TO START OF NEXT LETTER

Y FONT	LETTER SPACINGS										HT LEN								
25	B	U	F	F	A	L	O	G	R	O	V	E	R	D	100				
B	25	45	45	39	39	56	39	46	40	45	44	48	48	38	40	45	43	25	700

BY	DATE
ORIGINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

**SIGN DETAIL**  
SCALE 1:10

SIGN NUMBER	SOUTHC
WIDTH x HEIGHT	600mm x 300mm
BORDER WIDTH	15
CORNER RADIUS	38
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE COLOR: BLUE
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: YELLOW

SYMBOL	X	Y	WID	HT
M3.3			600	300

DIMENSIONS IN mm      SPACINGS ARE TO START OF NEXT LETTER

Y FONT	LETTER SPACINGS										HT LEN		
75	S	O	U	T	H						165		
C	45	113	113	104	97	83	45						510

**SIGN DETAIL**  
SCALE 1:10

SIGN NUMBER	MAINBG
WIDTH x HEIGHT	750mm x 300mm
BORDER WIDTH	15
CORNER RADIUS	50
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE COLOR: BLUE
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: YELLOW

SYMBOL	X	Y	WID	HT

DIMENSIONS IN mm      SPACINGS ARE TO START OF NEXT LETTER

Y FONT	LETTER SPACINGS										HT LEN					
175	M	A	I	N	T	A	I	N	E	D	B	Y	75			
C	96	56	54	18	48	40	54	19	50	44	79	48	48	96	558	
50	B	U	F	F	A	L	O	G	R	O	V	E	75			
C	72	50	50	44	43	54	44	44	38	50	48	50	53	38	72	606

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
IL RTE 22 (FAP 337)  
IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
**SIGN PANEL DETAILS**  
SHEET 2 OF 6

SCALE: NONE      DRAWN BY: AMB  
DATE: 03-22-2004      CHECKED BY: JNR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	313
STA. 99+800		TO STA. 100+475		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99		60881		

BY	DATE
FINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

**SIGN DETAIL**

SIGN NUMBER	GAMT09AM
WIDTH x HEIGHT	969mm x 150mm
BORDER WIDTH	15
CORNER RADIUS	38
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE COLOR: WHITE
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: BLACK

SYMBOL	X	Y	WID	HT

DIMENSIONS IN mm SPACINGS ARE TO START OF NEXT LETTER

Y FONT	LETTER SPACINGS												HT LEN	
250	6	A	M	-	9	A	M							150
C	75	99	108	146	160	99	108	99	75					819
50	M	O	N	-	F	R	I							150
C	125	116	103	131	159	89	100	21	125					719

BY	DATE
ORIGINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

**SIGN DETAIL**  
SCALE 1:10

SIGN NUMBER	PRAIROC
WIDTH x HEIGHT	750mm x 150mm
BORDER WIDTH	10
CORNER RADIUS	38
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE COLOR: BLUE
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: YELLOW

SYMBOL	X	Y	WID	HT

DIMENSIONS IN mm SPACINGS ARE TO START OF NEXT LETTER

Y FONT	LETTER SPACINGS												HT LEN	
25	P	R	A	I	R	I	E	R	D					100
C	50	77	72	80	36	76	36	51	90	77	55	50		650

**SIGN DETAIL**  
SCALE 1:15

SIGN NUMBER	WILLOWPKW
WIDTH x HEIGHT	1350mm x 300mm
BORDER WIDTH	15
CORNER RADIUS	50
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: WHITE

SYMBOL	X	Y	WID	HT

DIMENSIONS IN mm SPACINGS ARE TO START OF NEXT LETTER

Y FONT	LETTER SPACINGS												HT LEN	
75	W	i	i	l	o	w	P	k	w	y				150
EM	50	180	58	58	52	115	152	91	143	112	166	123	50	1250

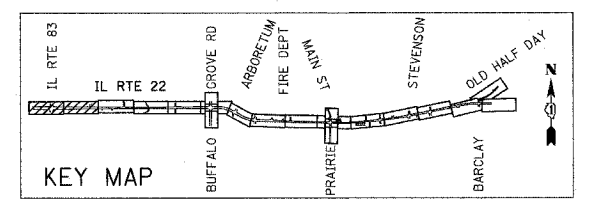
**SIGN DETAIL**  
SCALE 1:10

SIGN NUMBER	W17
WIDTH x HEIGHT	600mm x 600mm
BORDER WIDTH	15
CORNER RADIUS	38
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE COLOR: BLUE
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: YELLOW

SYMBOL	X	Y	WID	HT
ML5			600	600

DIMENSIONS IN mm SPACINGS ARE TO START OF NEXT LETTER

Y FONT	LETTER SPACINGS												HT LEN	
350	L	A	K	E										50
D	144	35	52	44	31	146								162
200	W	1	7											200
D	0	226	88	137	1									451
0	C	O	U	N	T	Y								50
D	96	44	48	46	44	34	43	97						259



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 SIGN PANEL DETAILS  
 SHEET 3 OF 6  
 SCALE: NONE DRAWN BY: AMB  
 DATE: 03-22-2004 CHECKED BY: JNR







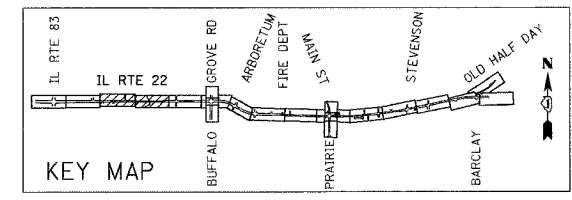
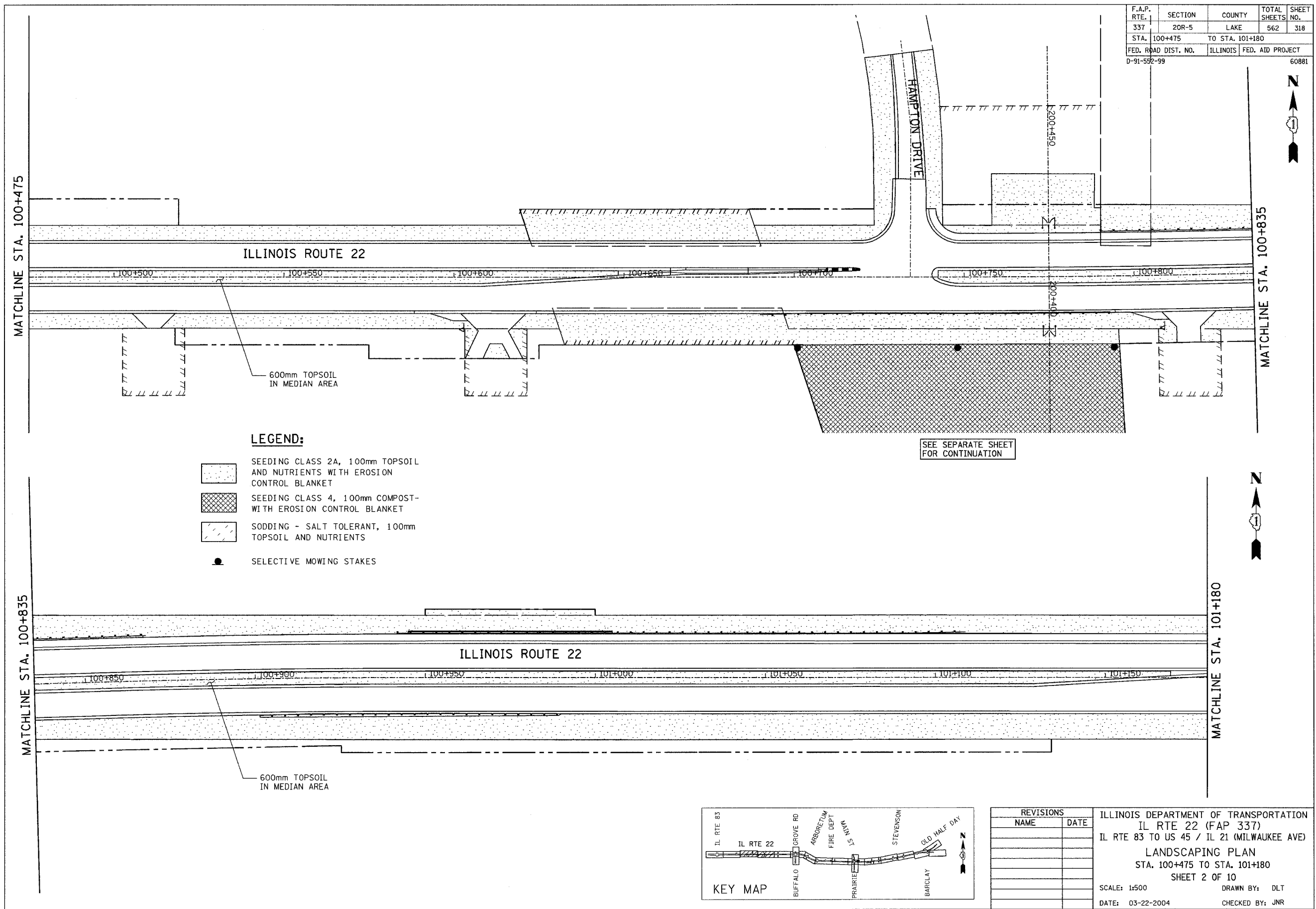




F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	318
STA. 100+475		TO STA. 101+180		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
D-91-592-99		60881		

BY	DATE
FINAL SURVEY PLOTTED	
NOTE BOOK NO.	
TEMPLATE AREAS CHECKED	
NO.	

BY	DATE
ORIGINAL SURVEY PLOTTED	
NOTE BOOK NO.	
TEMPLATE AREAS CHECKED	
NO.	



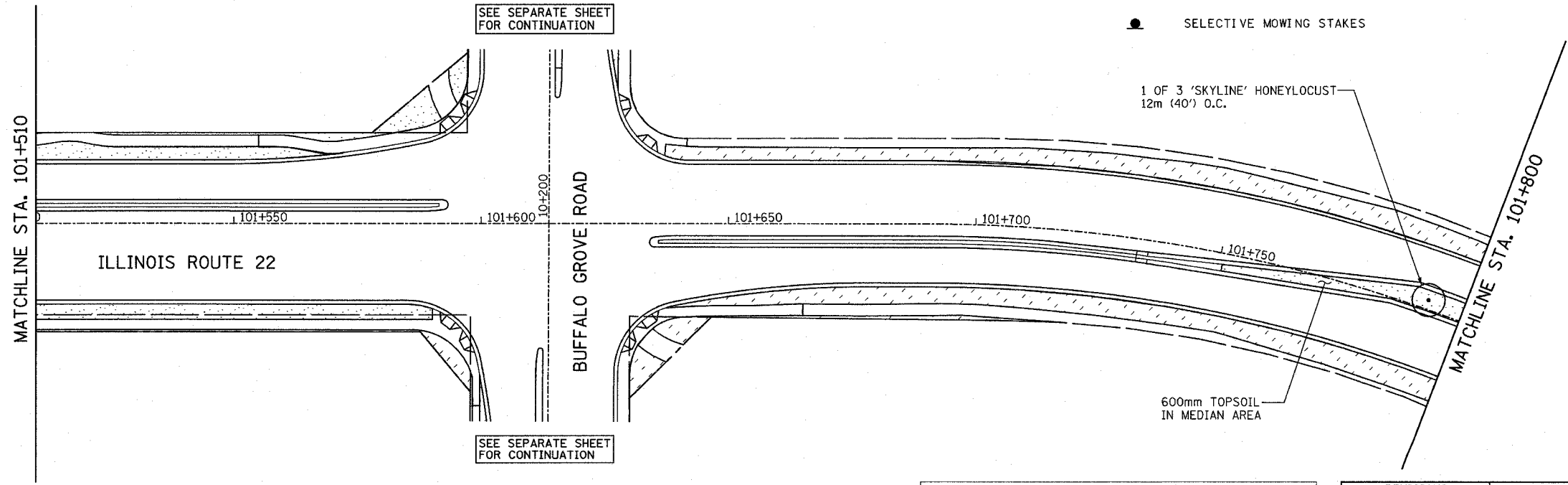
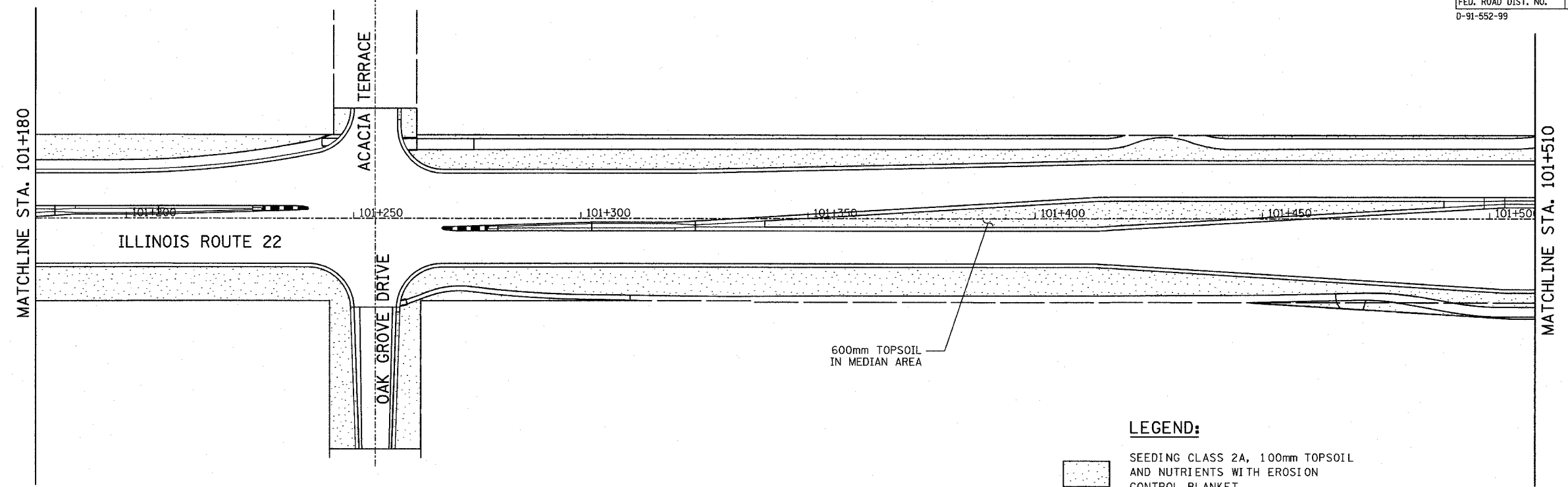
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
**LANDSCAPING PLAN**  
 STA. 100+475 TO STA. 101+180  
 SHEET 2 OF 10  
 SCALE: 1:500 DRAWN BY: DLT  
 DATE: 03-22-2004 CHECKED BY: JNR





F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	319
STA. 101+180		TO STA. 101+800		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99		60881		

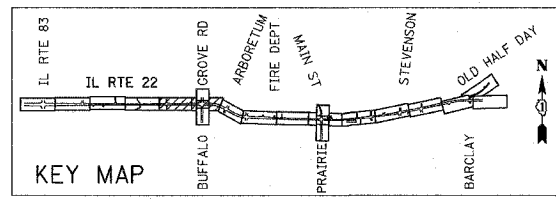
FINAL SURVEY NOTE BOOK NO.	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS CHECKED		

ORIGINAL SURVEY NOTE BOOK NO.	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS CHECKED		



**LEGEND:**

-  SEEDING CLASS 2A, 100mm TOPSOIL AND NUTRIENTS WITH EROSION CONTROL BLANKET
-  SEEDING CLASS 4, 100mm COMPOST WITH EROSION CONTROL BLANKET
-  SODDING - SALT TOLERANT, 100mm TOPSOIL AND NUTRIENTS
-  SELECTIVE MOWING STAKES



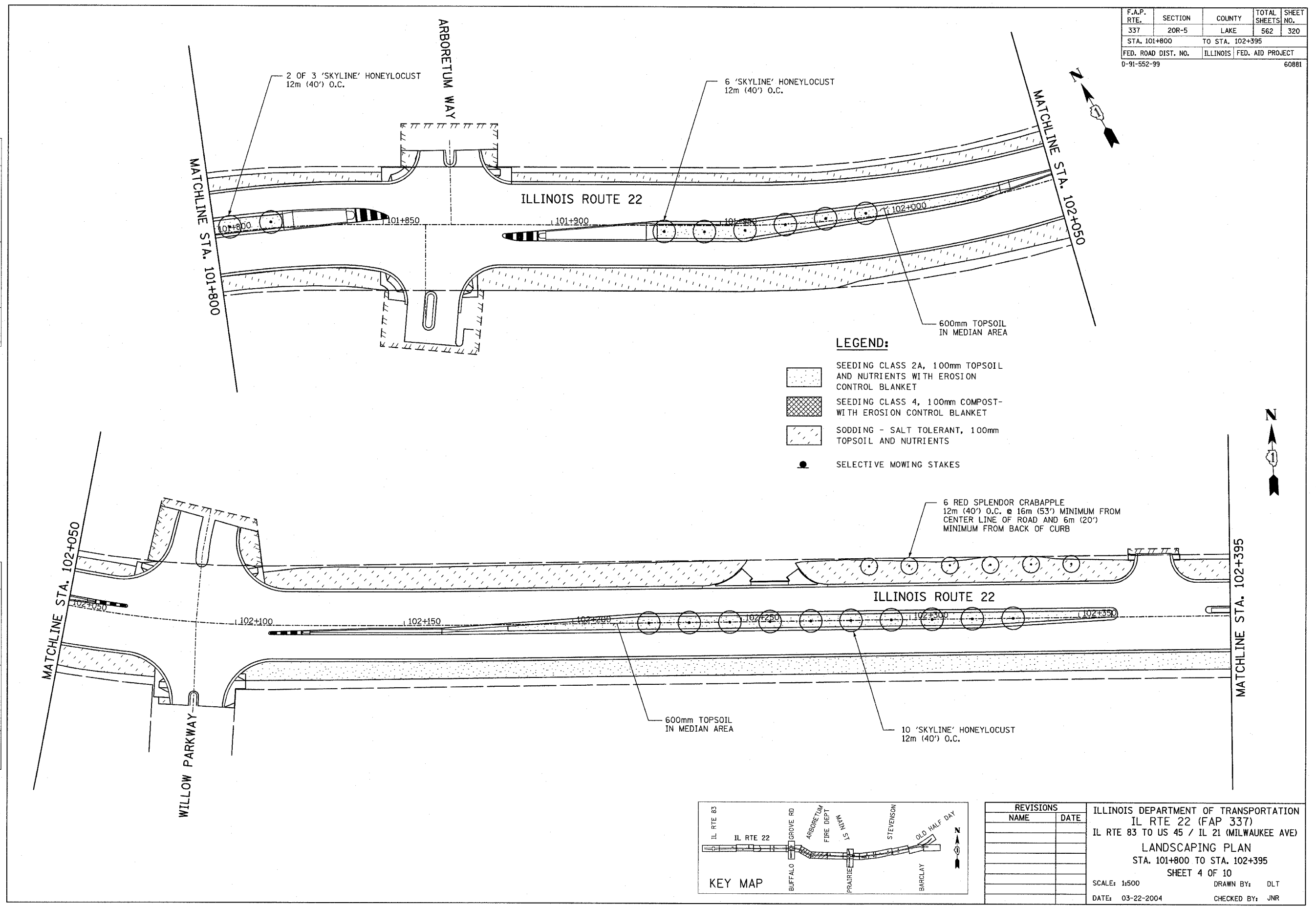
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 LANDSCAPING PLAN  
 STA. 101+180 TO STA. 101+800  
 SHEET 3 OF 10  
 SCALE: 1:500  
 DATE: 03-22-2004  
 DRAWN BY: DLT  
 CHECKED BY: JNR

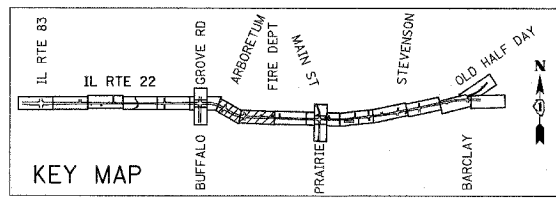
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	320
STA. 101+800		TO STA. 102+395		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
0-91-552-99		60881		

FINAL SURVEY	BY	DATE
SURVEY PLOTTED		
NOTE BOOK TEMPLATE		
NO.	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
SURVEY PLOTTED		
NOTE BOOK TEMPLATE		
NO.	AREAS CHECKED	



- LEGEND:**
- SEEDING CLASS 2A, 100mm TOPSOIL AND NUTRIENTS WITH EROSION CONTROL BLANKET
  - SEEDING CLASS 4, 100mm COMPOST-WITH EROSION CONTROL BLANKET
  - SODDING - SALT TOLERANT, 100mm TOPSOIL AND NUTRIENTS
  - SELECTIVE MOWING STAKES



REVISIONS	
NAME	DATE

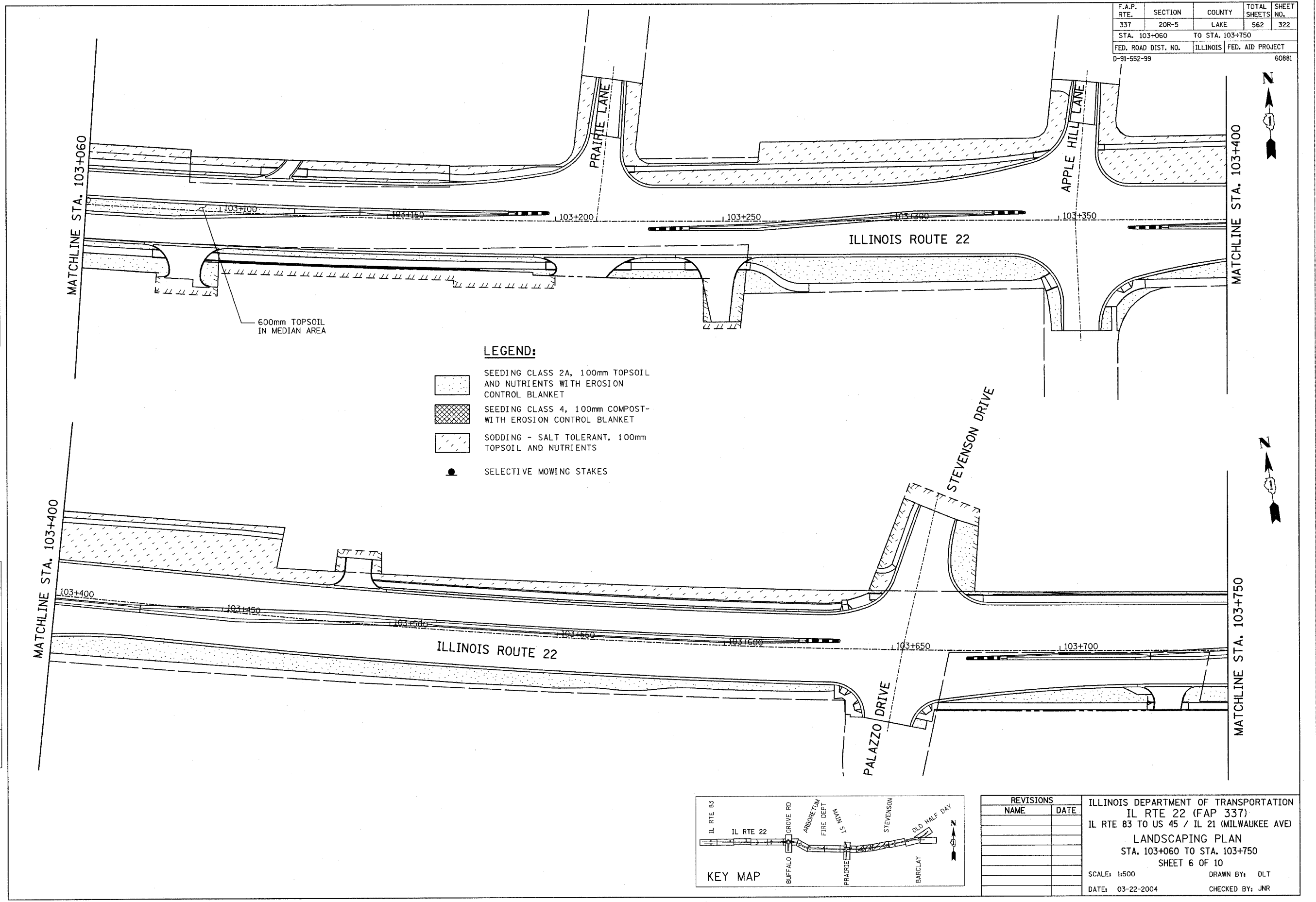
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 LANDSCAPING PLAN  
 STA. 101+800 TO STA. 102+395  
 SHEET 4 OF 10  
 SCALE: 1:500 DRAWN BY: DLT  
 DATE: 03-22-2004 CHECKED BY: JNR



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	322
STA. 103+060		TO STA. 103+750		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99		60881		

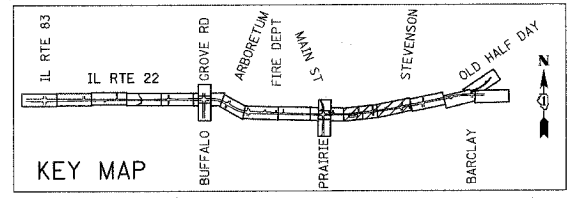
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	TEMP. DATE		
NO.	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	TEMP. DATE		
NO.	AREAS CHECKED		



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 LANDSCAPING PLAN  
 STA. 103+060 TO STA. 103+750  
 SHEET 6 OF 10  
 SCALE: 1:500  
 DATE: 03-22-2004  
 DRAWN BY: DLT  
 CHECKED BY: JNR



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	323
STA. 103+750		TO STA. 104+450		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99		60881		



FINAL SURVEY	BY	DATE
SURVEYED		
NOTED		
NO. _____		

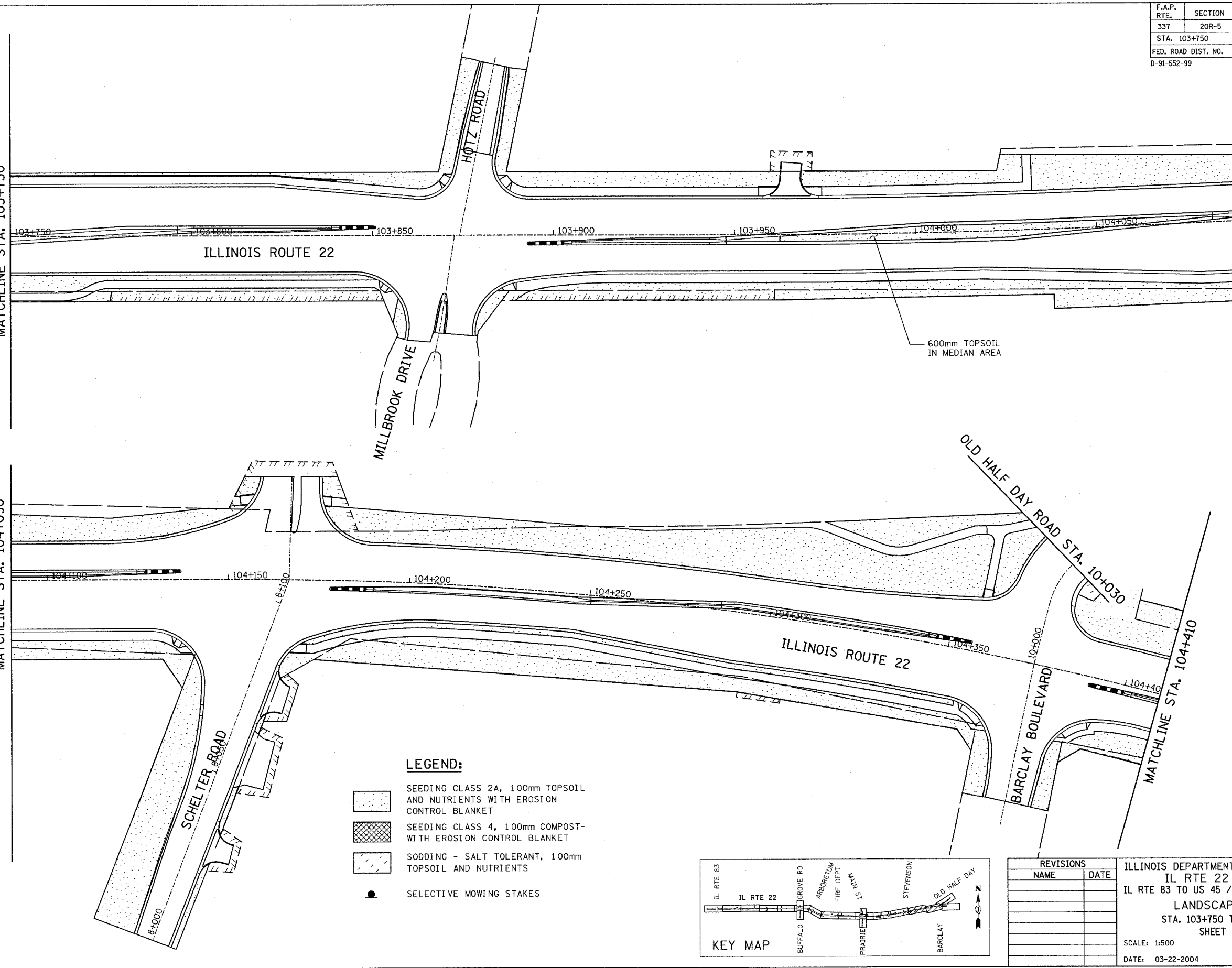
ORIGINAL SURVEY	BY	DATE
PLOTTED		
NO. _____		

MATCHLINE STA. 103+750





MATCHLINE STA. 104+090

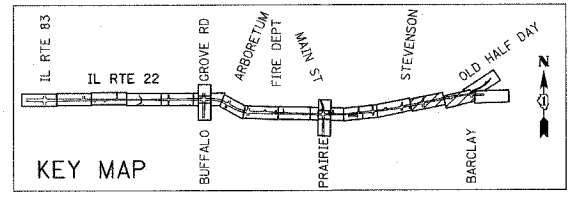
MATCHLINE STA. 104+090

MATCHLINE STA. 104+410



**LEGEND:**

-  SEEDING CLASS 2A, 100mm TOPSOIL AND NUTRIENTS WITH EROSION CONTROL BLANKET
-  SEEDING CLASS 4, 100mm COMPOST WITH EROSION CONTROL BLANKET
-  SODDING - SALT TOLERANT, 100mm TOPSOIL AND NUTRIENTS
-  SELECTIVE MOWING STAKES



REVISIONS	
NAME	DATE

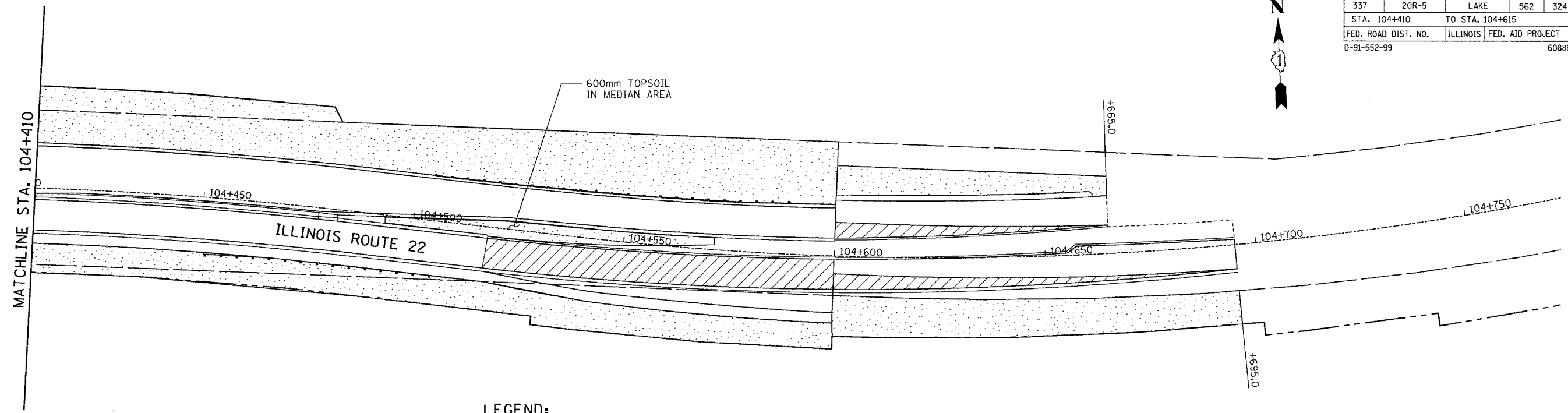
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 LANDSCAPING PLAN  
 STA. 103+750 TO STA. 104+410  
 SHEET 7 OF 10  
 SCALE: 1:500  
 DATE: 03-22-2004  
 DRAWN BY: DLT  
 CHECKED BY: JNR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	324
STA. 104+410		TO STA. 104+615		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99		60881		







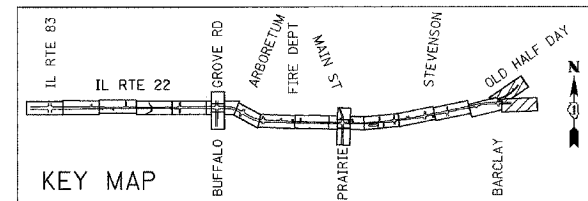
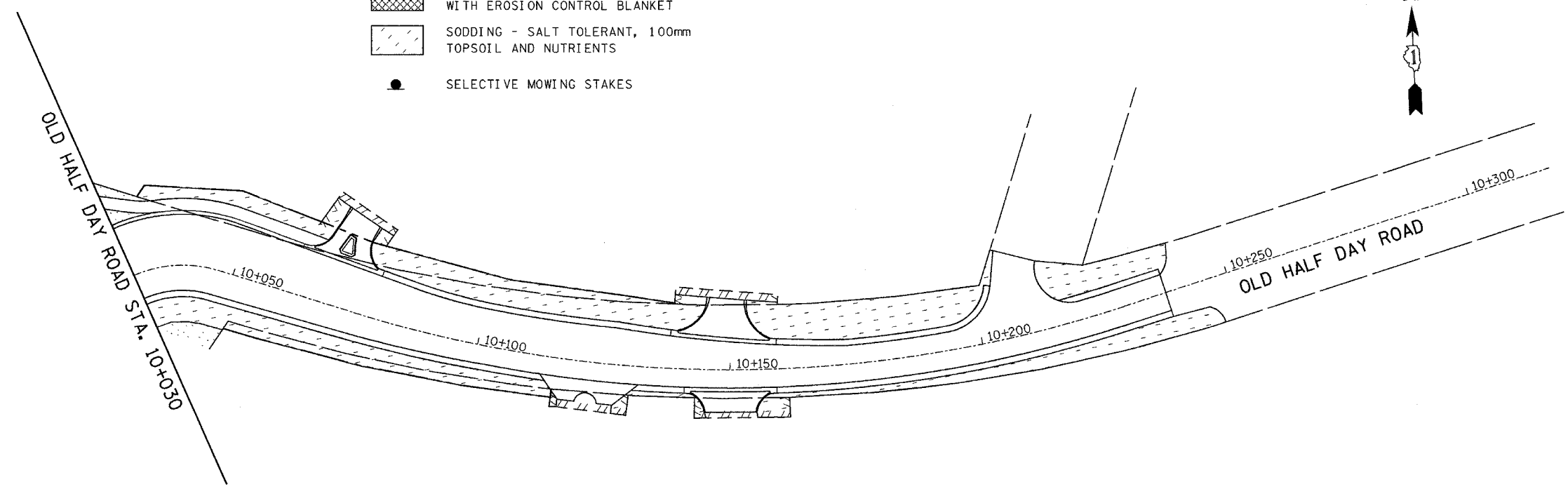
FINAL SURVEY	BY	DATE
SURVEY PLOTTED		
NOTE BOOK NO.		
TEMPLATE AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
SURVEY PLOTTED		
NOTE BOOK NO.		
TEMPLATE AREAS CHECKED		



**LEGEND:**

-  SEEDING CLASS 2A, 100mm TOPSOIL AND NUTRIENTS WITH EROSION CONTROL BLANKET
-  SEEDING CLASS 4, 100mm COMPOST-WITH EROSION CONTROL BLANKET
-  SODDING - SALT TOLERANT, 100mm TOPSOIL AND NUTRIENTS
-  SELECTIVE MOWING STAKES



REVISIONS	
NAME	DATE

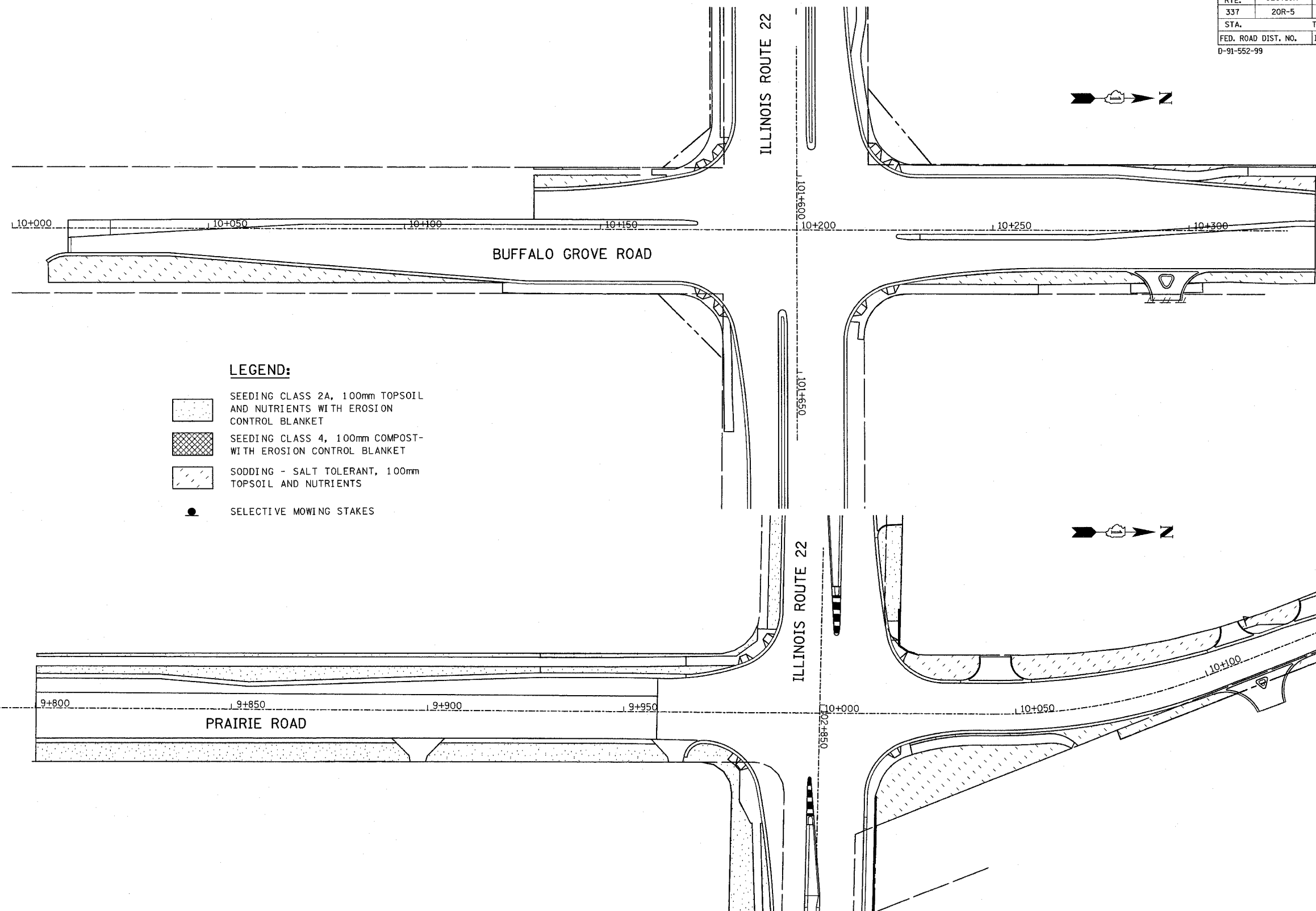
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 LANDSCAPING PLAN  
 STA. 104+410 TO STA. 104+600 AND  
 OLD HALF DAY ROAD  
 SHEET 8 OF 10  
 SCALE: 1:500  
 DATE: 03-22-2004  
 DRAWN BY: DLT  
 CHECKED BY: JNR







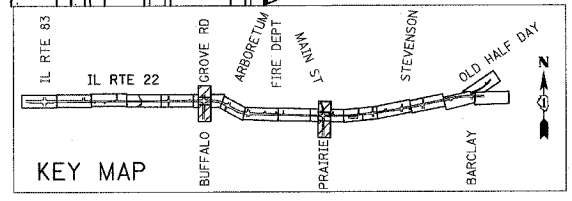
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	325
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99		60881		

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMP. DATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMP. DATE	
	AREAS CHECKED	



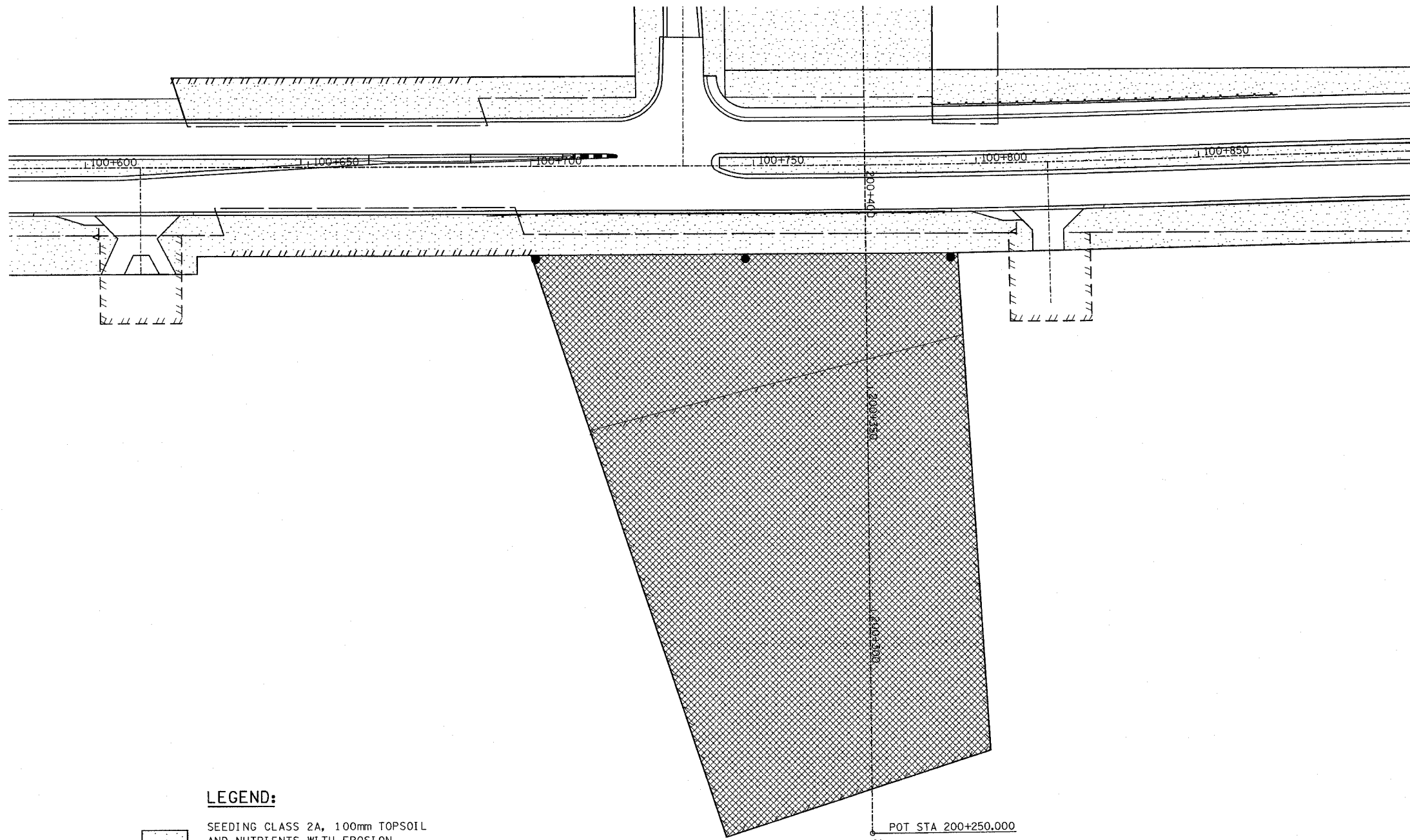
- LEGEND:**
-  SEEDING CLASS 2A, 100mm TOPSOIL AND NUTRIENTS WITH EROSION CONTROL BLANKET
  -  SEEDING CLASS 4, 100mm COMPOST-WITH EROSION CONTROL BLANKET
  -  SODDING - SALT TOLERANT, 100mm TOPSOIL AND NUTRIENTS
  -  SELECTIVE MOWING STAKES



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 LANDSCAPING PLAN  
 BUFFALO GROVE ROAD AND PRAIRIE ROAD  
 SHEET 9 OF 10  
 SCALE: 1:500 DRAWN BY: DLT  
 DATE: 03-22-2004 CHECKED BY: JNR





F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	326
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
D-91-552-99		60881		

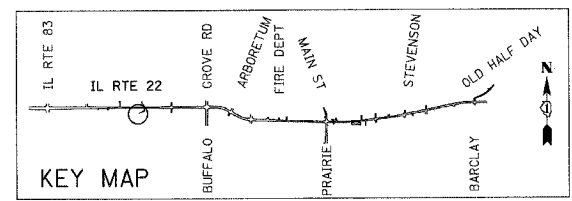


BY	DATE
FINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

BY	DATE
ORIGINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

**LEGEND:**

-  SEEDING CLASS 2A, 100mm TOPSOIL AND NUTRIENTS WITH EROSION CONTROL BLANKET
-  SEEDING CLASS 4, 100mm COMPOST-WITH EROSION CONTROL BLANKET
-  SODDING - SALT TOLERANT, 100mm TOPSOIL AND NUTRIENTS
-  SELECTIVE MOWING STAKES

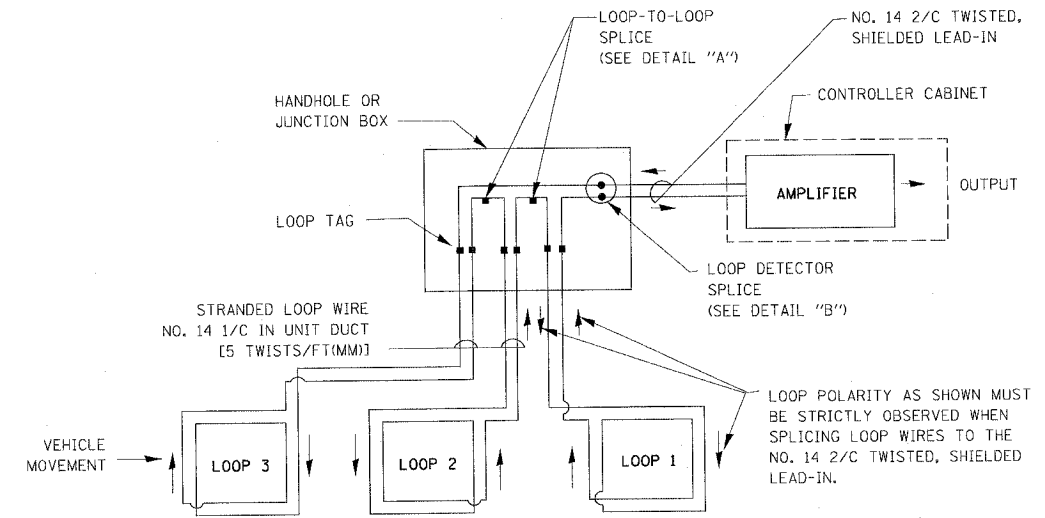


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 LANDSCAPING PLAN  
 KILDEER CREEK  
 COMPENSATORY STORAGE AREA  
 SHEET 10 OF 10  
 SCALE: 1:500  
 DATE: 03-22-2004  
 DRAWN BY: DLT  
 CHECKED BY: DAJ

### LOOP DETECTOR NOTES

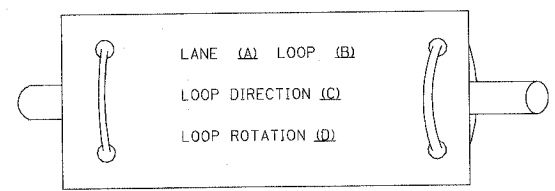
- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVESHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- PERFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PERFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.



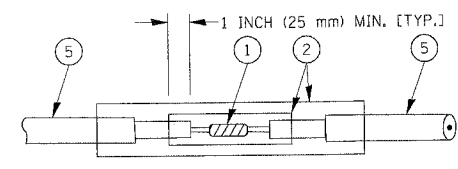
**DETECTOR LOOP WIRING SCHEMATIC**

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

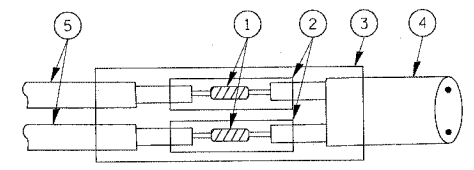
**LOOP LEAD-IN CABLE TAG**



- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



**DETAIL "A"  
LOOP-TO-LOOP SPLICE**



**DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE**

**LOOP DETECTOR SPLICE**

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2/C TWISTED, SHIELDED CABLE.
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

REVISIONS	
NAME	DATE
CADD	5/30/00
ADD NOTE NO. B	11/12/01
BUREAU OF TRAFFIC	1-01-02

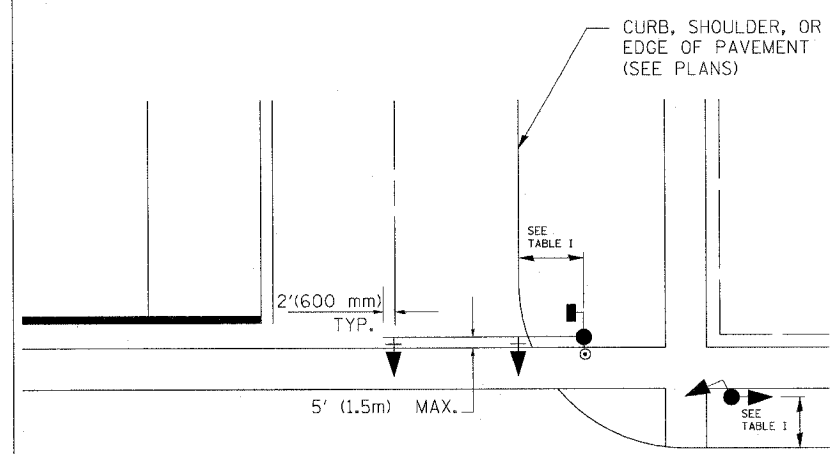
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DISTRICT ONE  
 STANDARD TRAFFIC SIGNAL  
 DESIGN DETAILS**  
 SCALE: VERT. NONE  
 HORIZ.  
 DATE 10/18/2002  
 DRAWN BY: RWP  
 DESIGNED BY: DAD  
 CHECKED BY: DAZ  
 SHEET 1 OF 4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			562	328
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

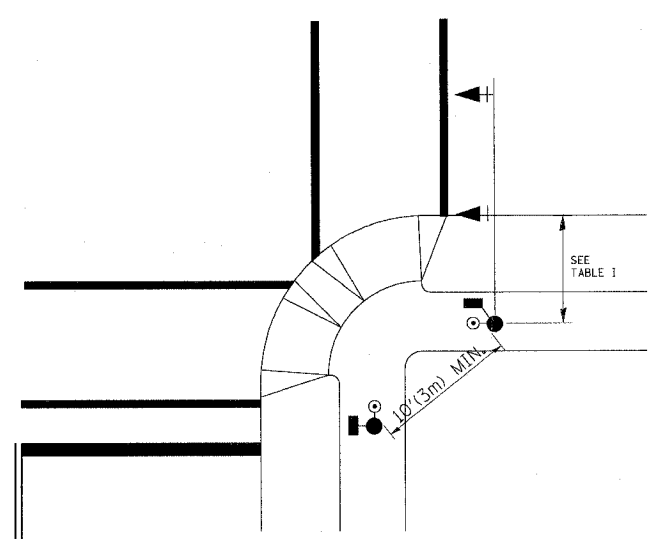
60887

**TRAFFIC SIGNAL MAST ARM AND POST**

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



**PEDESTRIAN SIGNAL PUSHBUTTON**



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

**NOTES:**

- AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION, EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.  
  
AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.  
  
PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:  
 A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL-WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.  
 B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.  
 C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.  
 D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).  
 E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK
- PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

**PEDESTRIAN SIGNAL POST**

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

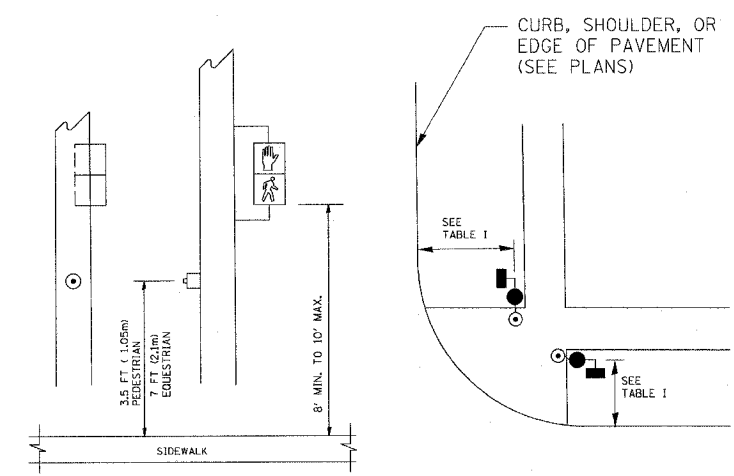


TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

REVISIONS	
NAME	DATE
BUREAU OF TRAFFIC	1/01/02

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DISTRICT 1  
 STANDARD TRAFFIC SIGNAL  
 DESIGN DETAILS  
 SCALE: VERT. NONE  
 HORIZ. NONE  
 DATE 10/18/2002  
 DRAWN BY: RWP  
 DESIGNED BY: DAD  
 CHECKED BY: DAZ  
 SHEET 2 OF 4

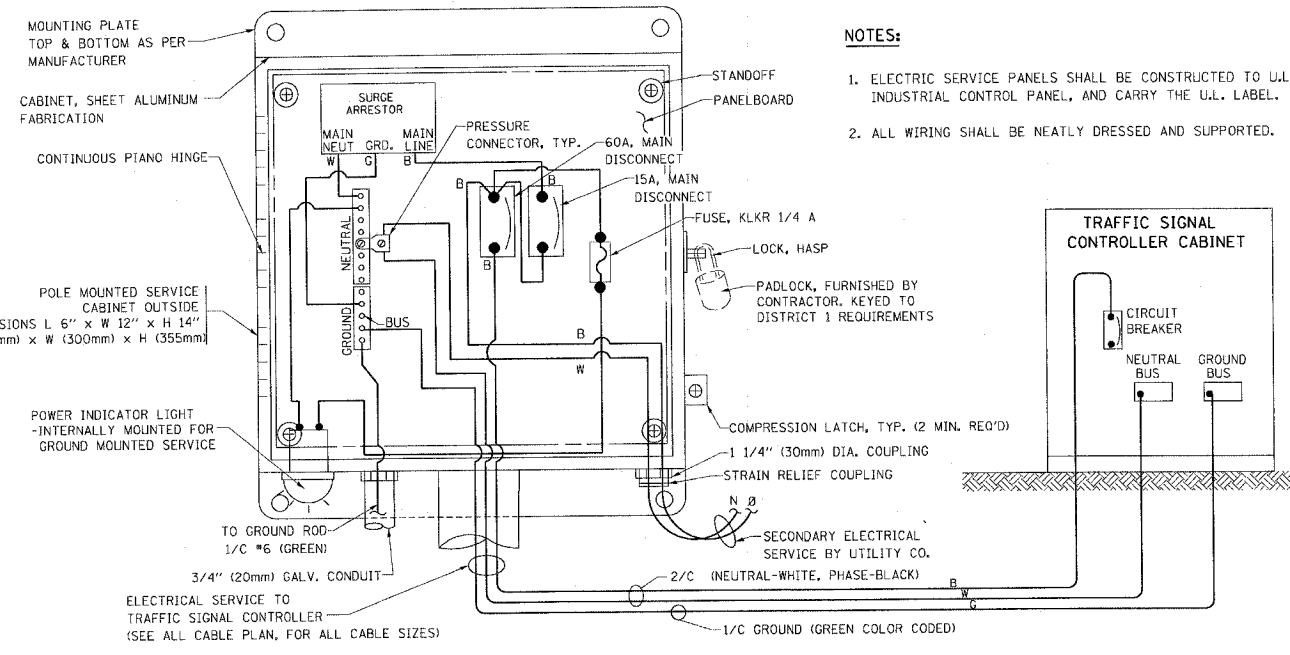
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			562	329
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS		FED. AID PROJECT	

60881

**NOTES:**

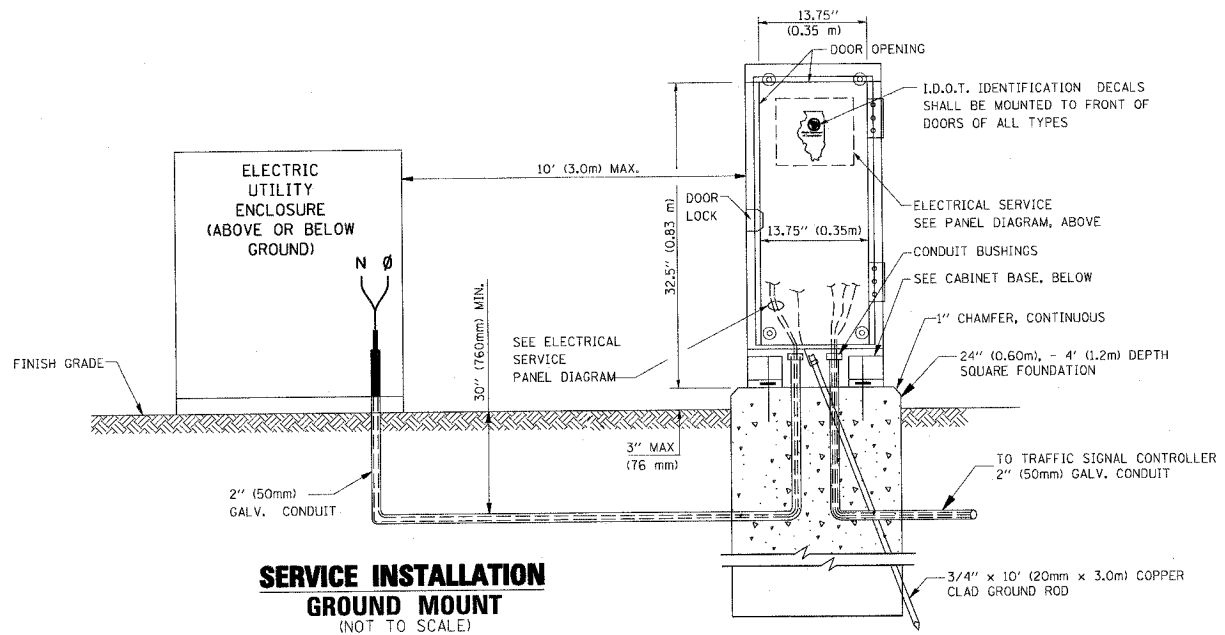
**GROUNDING SYSTEM**

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

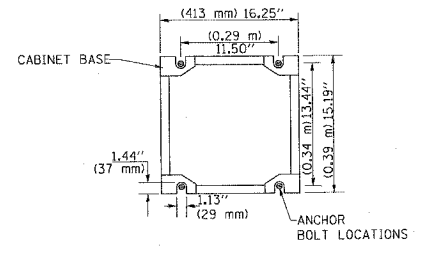


**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)**

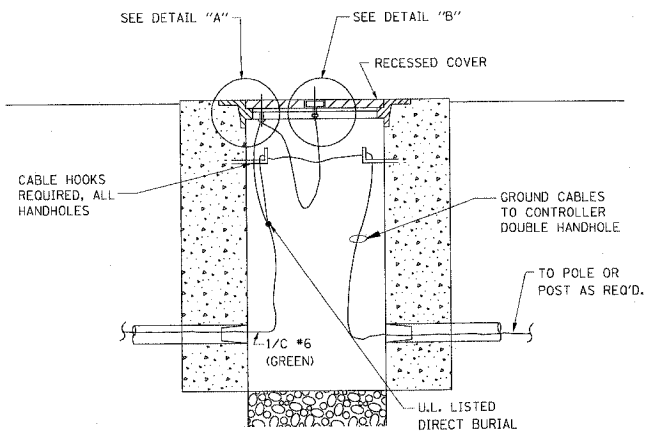
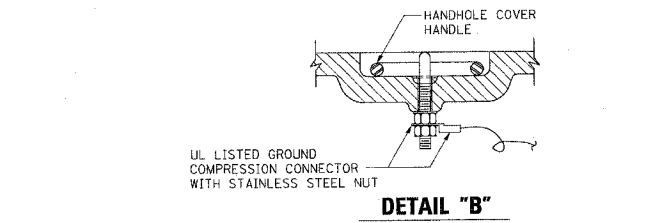
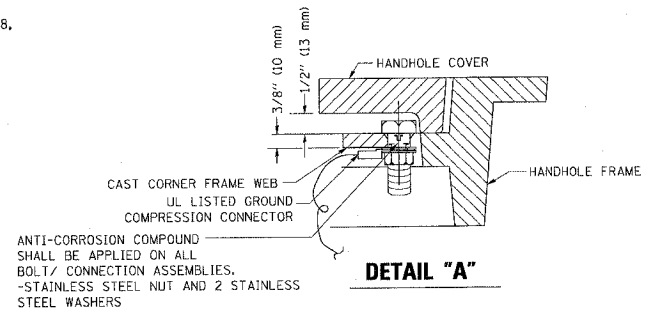
**SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)**



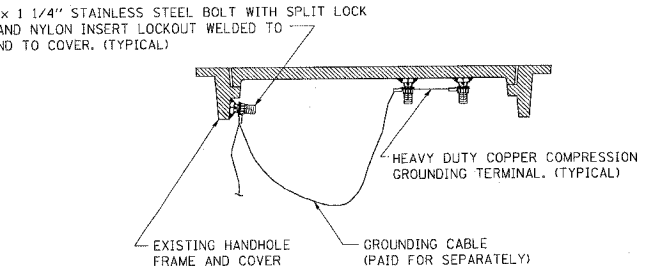
**SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)**



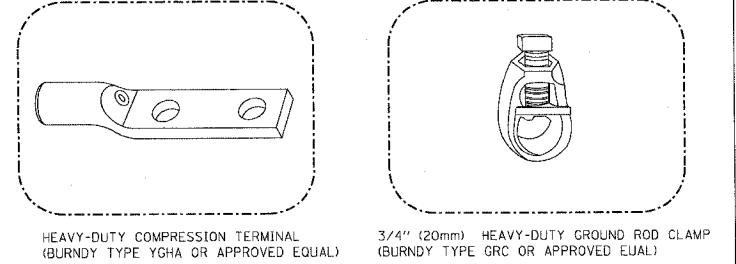
**CABINET - BASE BOLT PATTERN (NOT TO SCALE)**



**HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)**

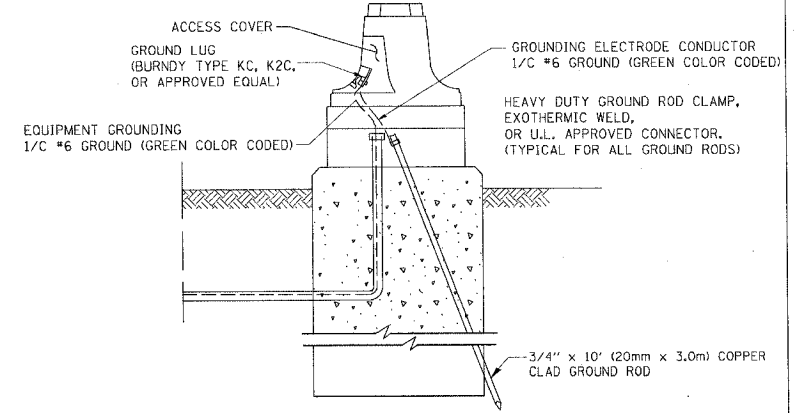


**EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)**



**NOTES:**

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



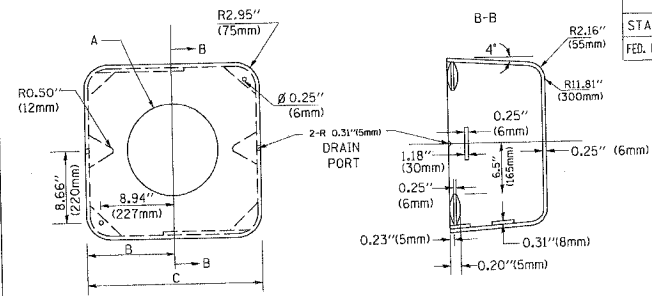
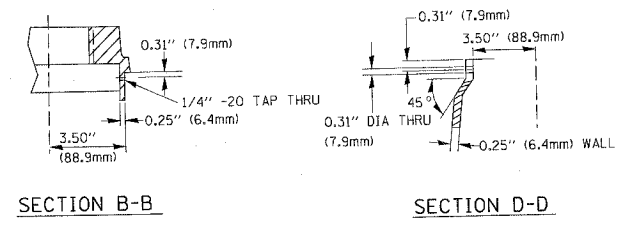
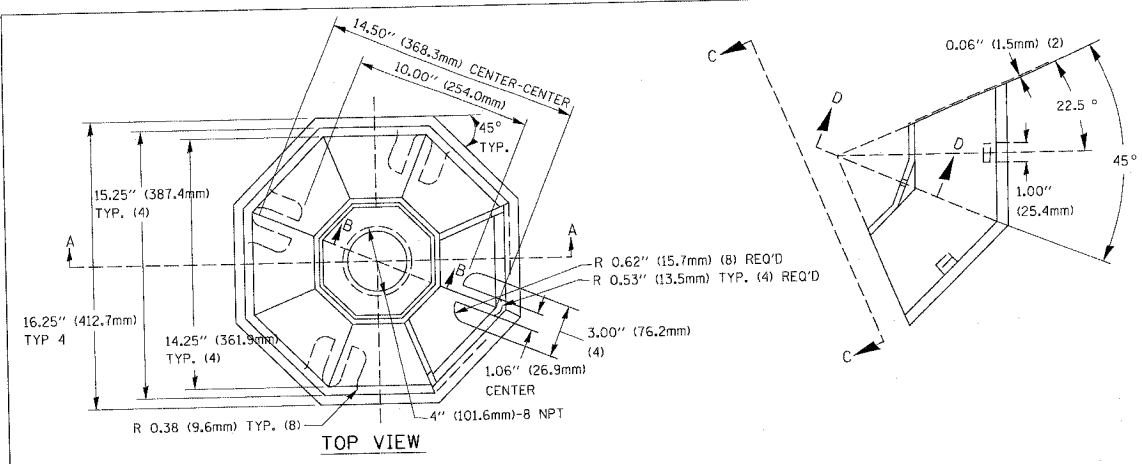
**MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)**

REVISIONS	
NAME	DATE
CADD	5/30/00
CADD	3/15/01
BUREAU OF TRAFFIC	1/01/02

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DISTRICT 1**  
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: VERT. NONE  
 HORIZ. DATE 10/19/2002  
 DRAWN BY: RWP  
 DESIGNED BY: DAD  
 CHECKED BY: DAZ  
 SHEET 3 OF 4

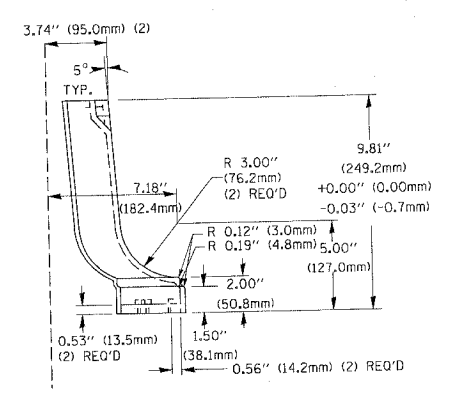
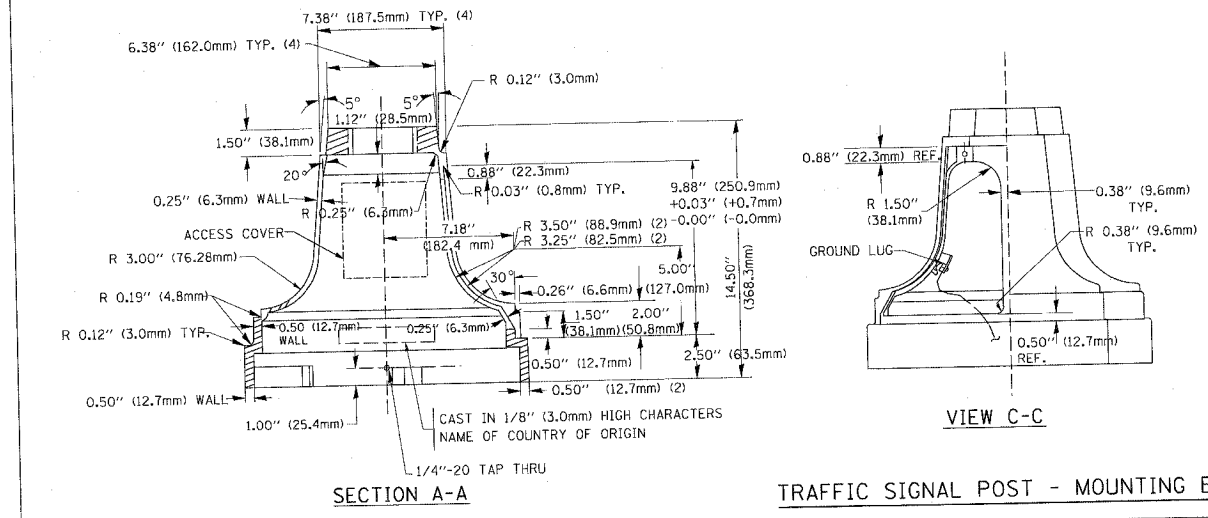
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			562	330
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
60881				



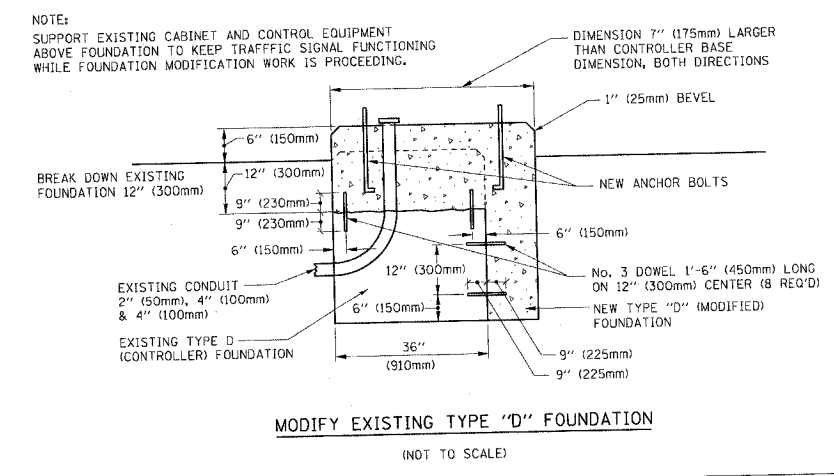
TYPE	A	B	C	HEIGHT	WEIGHT
I	Ø 10.125\"(257mm)	9.5\"(241mm)	19\"(483mm)	12\"(300mm)	24kg
II	Ø 11.125\"(283mm)	10.75\"(273mm)	21.5\"(546mm)	12\"(300mm)	26kg

MATERIAL:  
 - ASTM A48 CLASS 30 GREY IRON  
 - ASTM A123 HOT DIPPED GALVANIZED

SHROUD DETAIL



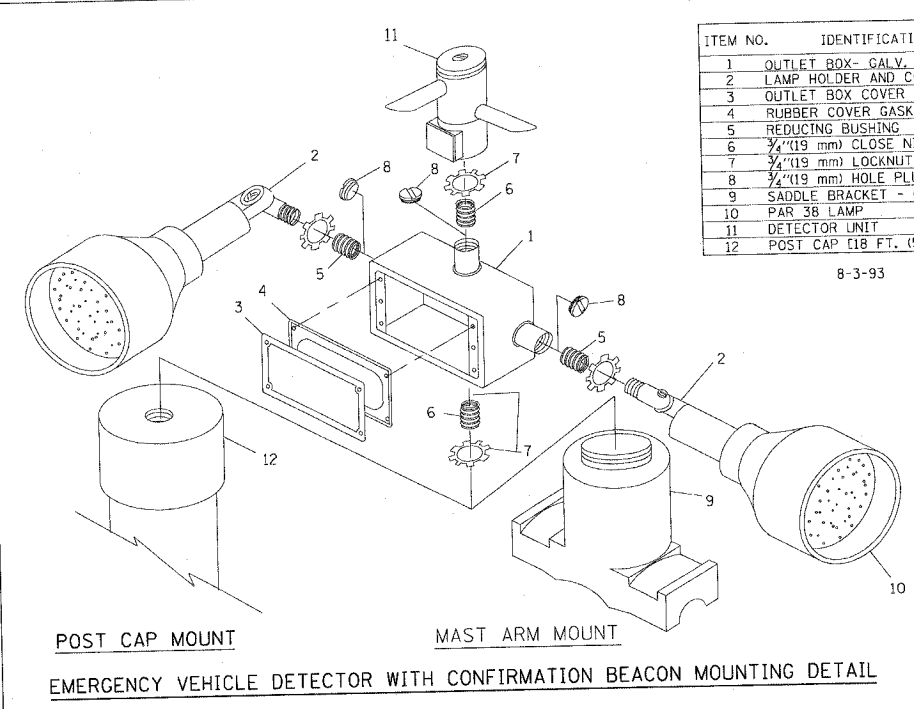
TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



NOTES:  
 SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.

MODIFY EXISTING TYPE "D" FOUNDATION

(NOT TO SCALE)

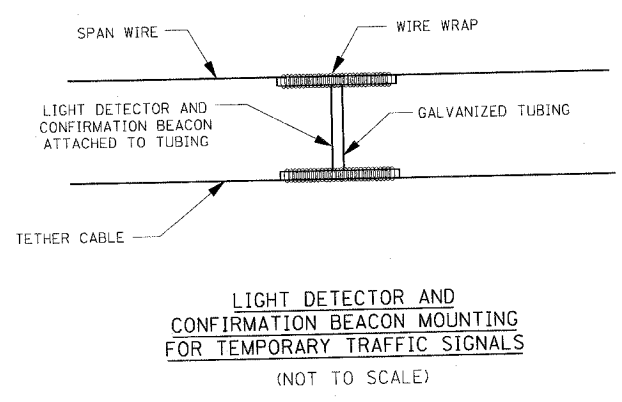


ITEM NO.	IDENTIFICATION
1	OUTLET BOX - GALV. 21 CUJIN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	1/4\"(19 mm) CLOSE NIPPLE
7	1/4\"(19 mm) LOCKNUT
8	1/4\"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	PAR 38 LAMP
11	DETECTOR UNIT
12	POST CAP (18 FT. (5.4 m) POST MIN.)

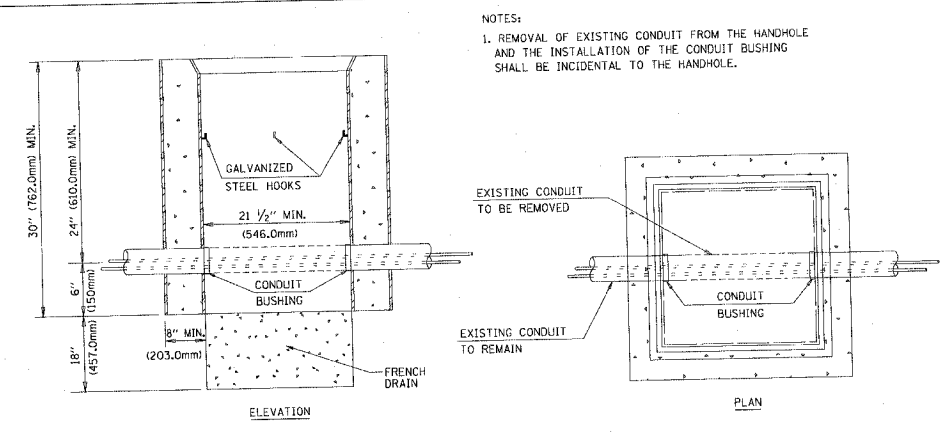
8-3-93

NOTES:

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT  
 ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT  
 ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4\"(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



LIGHT DETECTOR AND CONFIRMATION BEACON MOUNTING FOR TEMPORARY TRAFFIC SIGNALS (NOT TO SCALE)



DETAIL HANDHOLE TO INTERCEPT EXISTING CONDUIT N.T.S.

REVISIONS	NAME	DATE
BUREAU OF TRAFFIC		5/30/00
BUREAU OF TRAFFIC		3/15/01
BUREAU OF TRAFFIC		11/12/01
BUREAU OF TRAFFIC		1-01-02

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DISTRICT 1  
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

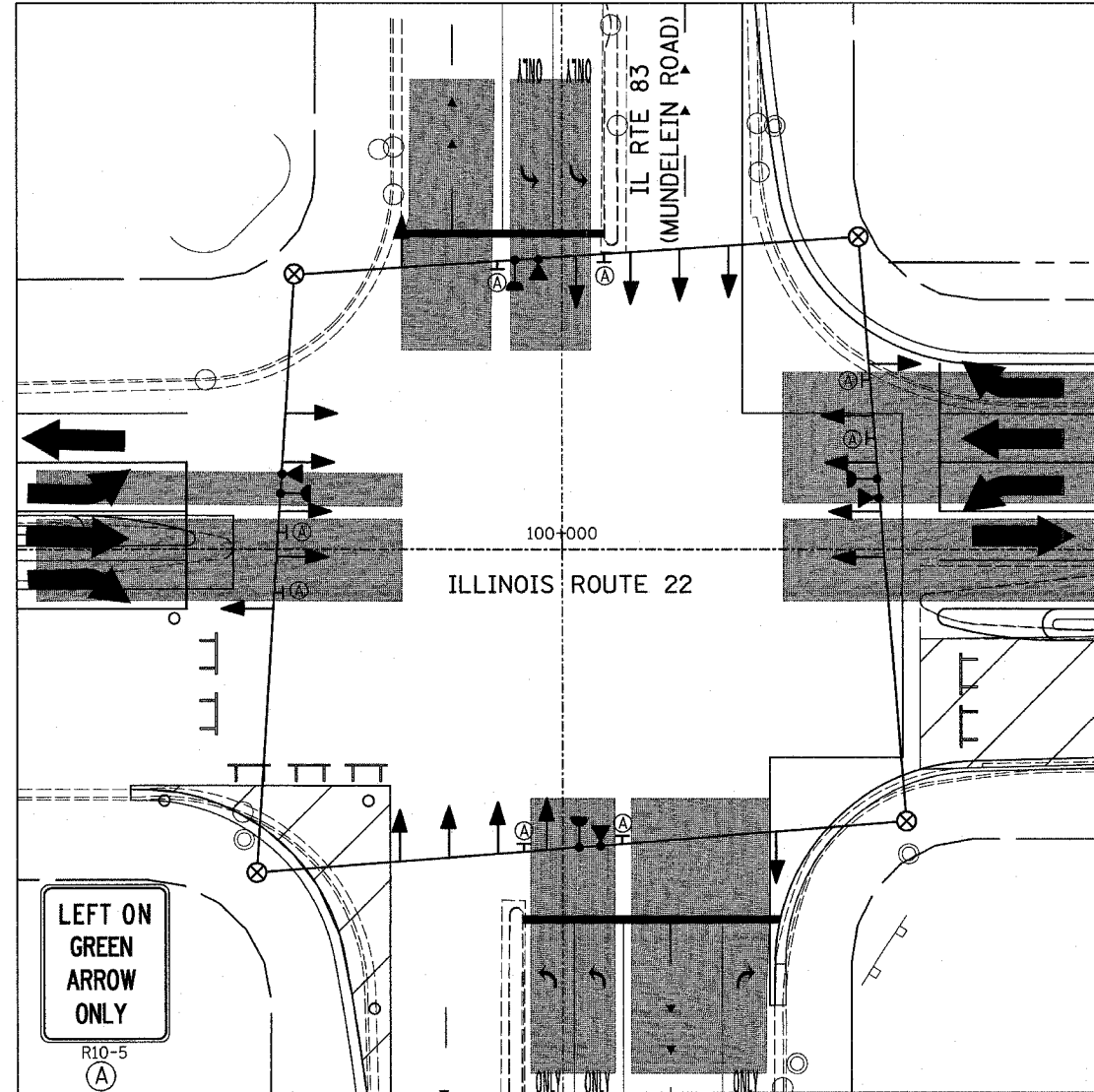
SCALE: VERT. NONE  
 HORIZ. DATE 10/18/2002  
 DRAWN BY: RWP  
 DESIGNED BY: DAD  
 CHECKED BY: DAZ  
 SHEET 4 OF 4



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	332
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
D-91-552-99		60881		

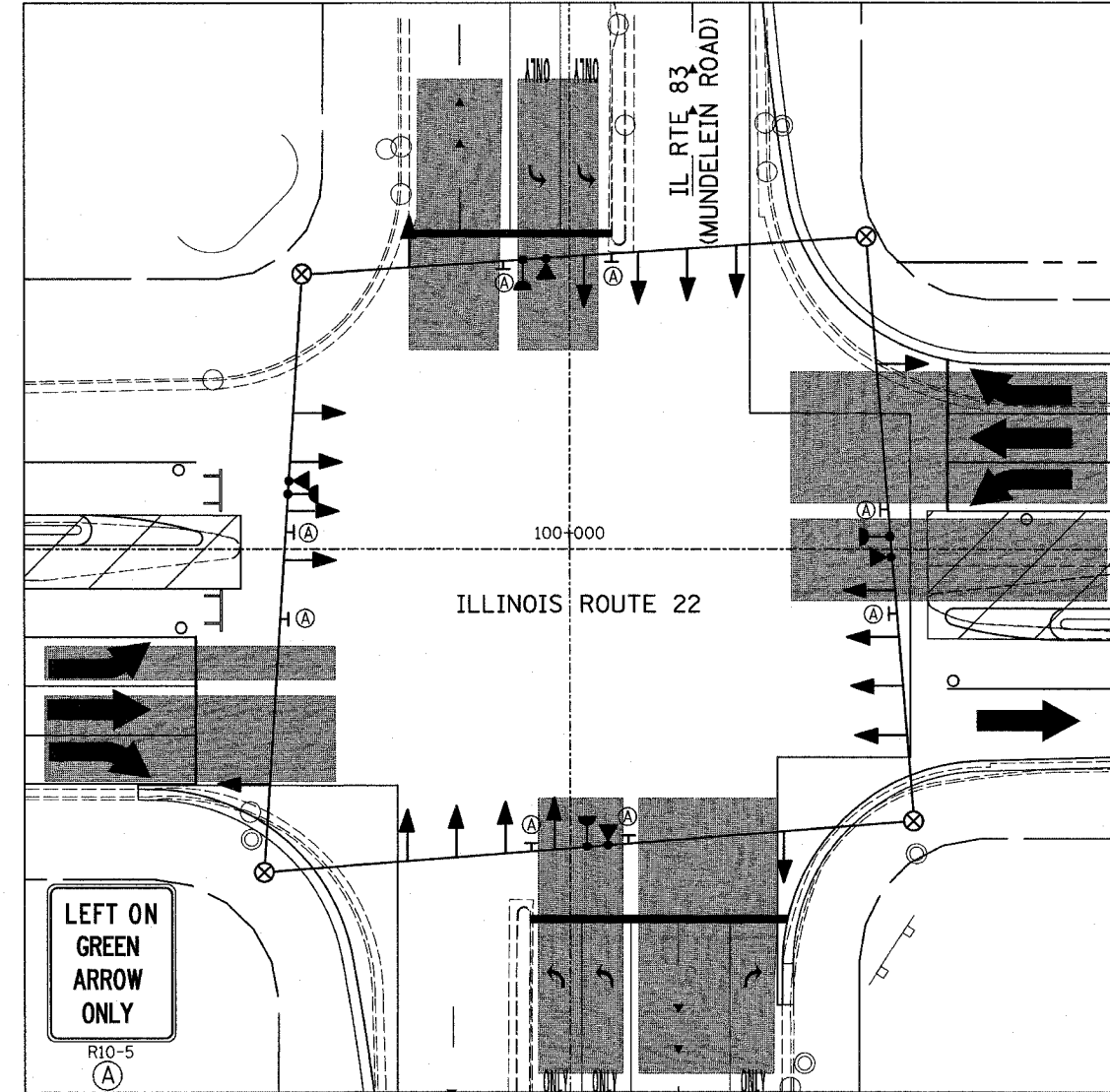


FINAL SURVEY	BY	DATE
SURVEY PLOTTED		
NOTE BOOK TEMPLATE		
AREAS CHECKED		
NO.		

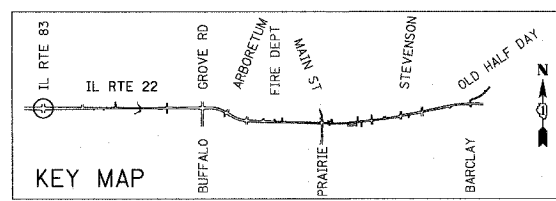


STAGE 2

ORIGINAL SURVEY	BY	DATE
SURVEY PLOTTED		
NOTE BOOK TEMPLATE		
AREAS CHECKED		
NO.		



STAGE 3



REVISIONS	
NAME	DATE

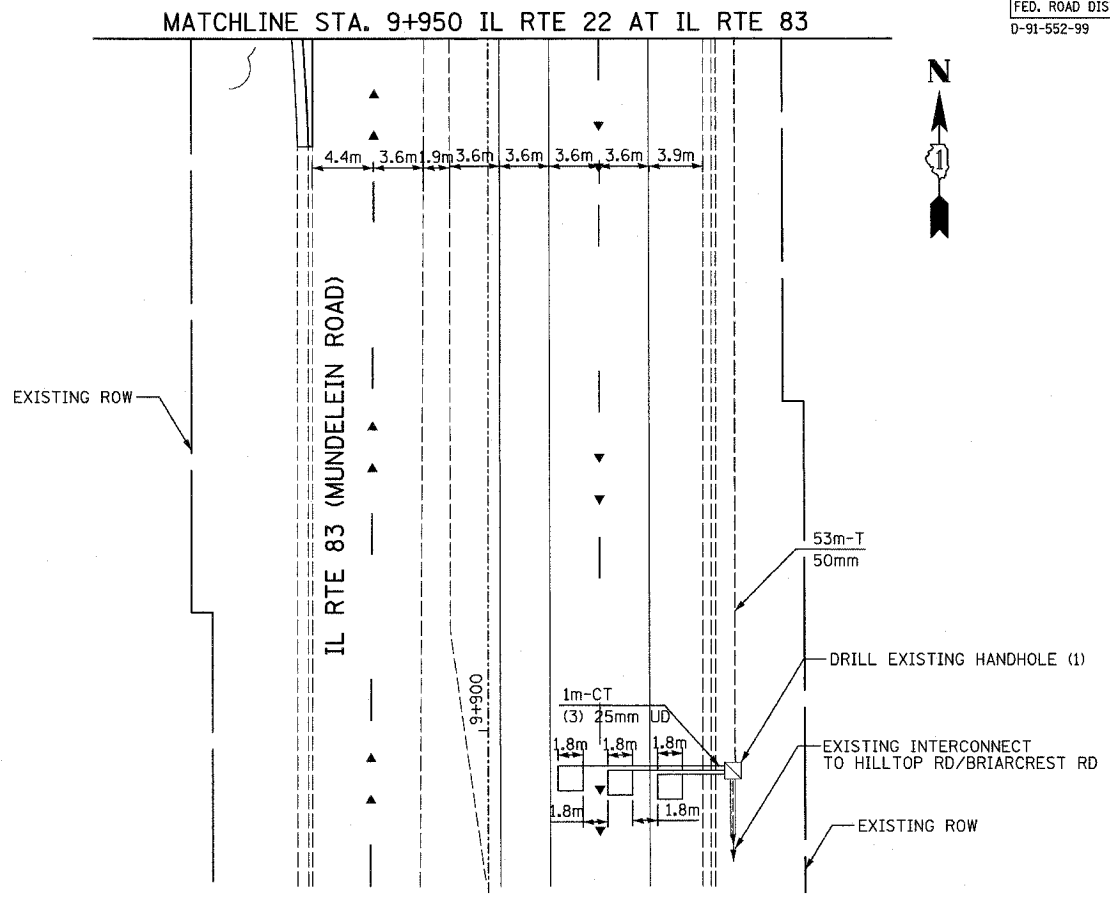
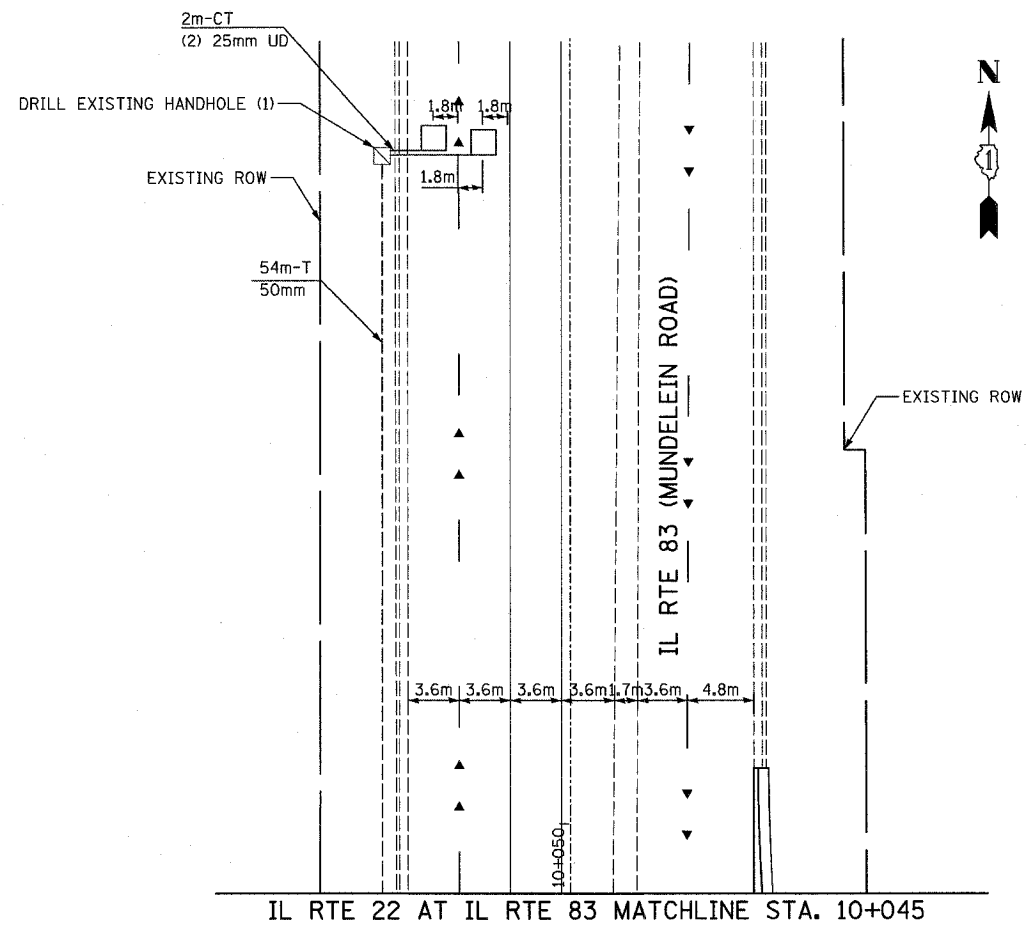
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 TEMPORARY TRAFFIC SIGNAL  
 INSTALLATION AND REMOVE EXISTING  
 TRAFFIC SIGNAL EQUIPMENT (STAGES 2&3)  
 ILLINOIS ROUTE 22 AT IL 83 (MUNDELEIN ROAD)  
 SCALE: 1:250  
 DATE: 03-22-2004  
 DRAWN BY: AMB  
 DESIGNED BY: AMB  
 CHECKED BY: JPS







F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	335
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
0-91-552-99		60881		



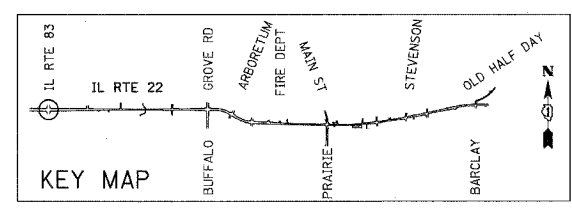
FINAL SURVEY PLOTTED	BY	DATE
NOTE BOOK TEMPLATE		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY PLOTTED	BY	DATE
NOTE BOOK TEMPLATE		
AREAS CHECKED		
NO.		

### TRAFFIC SIGNAL LEGEND

<b>PROPOSED</b>	<b>EXISTING</b>	<b>PROPOSED</b>	<b>EXISTING</b>

THE TRAFFIC SIGNAL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION IL RTE 22 (FAP 337) IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE) TRAFFIC SIGNAL INSTALLATION PLAN ILLINOIS ROUTE 22 AT IL 83 (MUNDELEIN ROAD) SHEET 2 OF 2
NAME	DATE	
		SCALE: 1:250
		DATE: 03-22-2004
		DRAWN BY: AMB DESIGNED BY: AMB CHECKED BY: JPS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	336
STA. TO STA.		60881		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
0-91-552-99		NO. 4 (GREEN)		

**RIGHT TURN OVERLAP PHASE DESIGNATION**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5
D	= 8	+ 1

• NUMBER REFERS TO ASSOCIATED PHASE

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

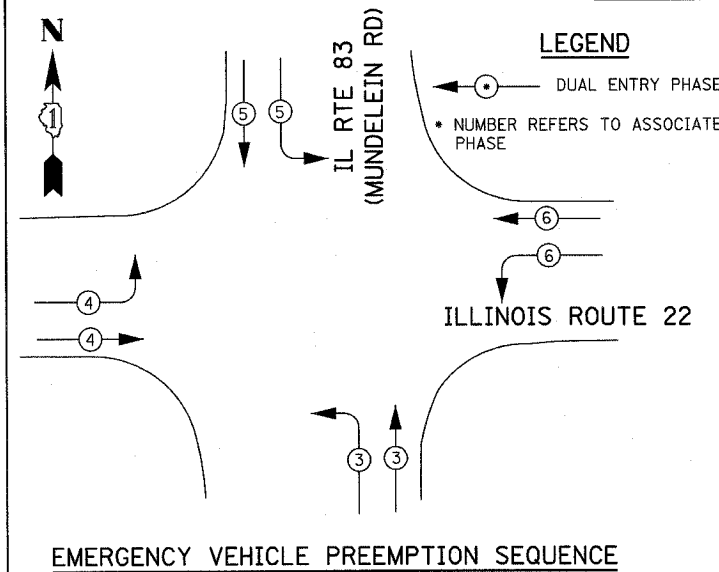
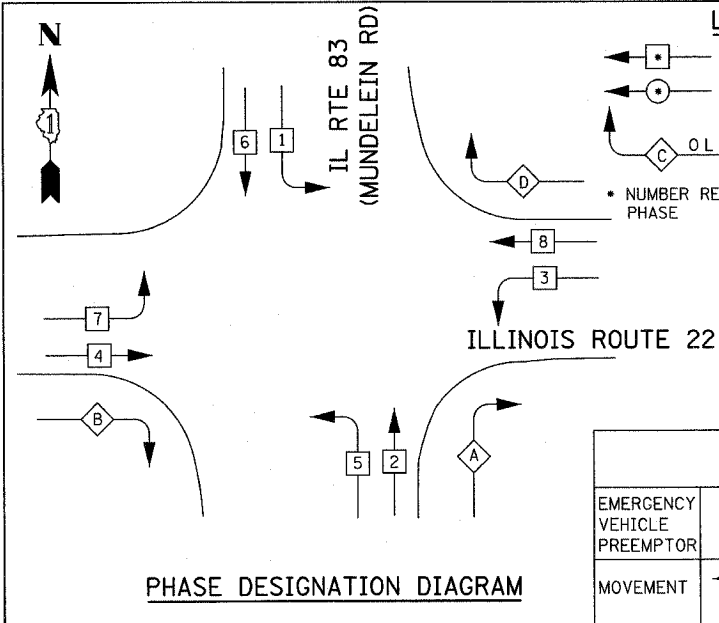
EMERGENCY VEHICLE PREEMPTOR	3	5	4	6
MOVEMENT	←	↓	→	←

**SCHEDULE OF QUANTITIES**

QTY	UNIT	ITEM DESCRIPTION
1.4	SQ M	SIGN PANEL - TYPE 1
2.8	SQ M	SIGN PANEL - TYPE 2
252	METER	CONDUIT IN TRENCH, 50MM DIA., GALVANIZED STEEL
46	METER	CONDUIT IN TRENCH, 65MM DIA., GALVANIZED STEEL
4	METER	CONDUIT IN TRENCH, 100MM DIA., GALVANIZED STEEL
48	METER	CONDUIT PUSHED, 50MM DIA., GALVANIZED STEEL
136	METER	CONDUIT PUSHED, 100MM DIA., GALVANIZED STEEL
4	EACH	HANDHOLE
4	EACH	HEAVY-DUTY HANDHOLE
2	EACH	DOUBLE HANDHOLE
302	METER	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER IN TYPE IV CABINET, SPECIAL
1	EACH	TRANSCIVER - FIBER OPTIC
344	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 3C
1242	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 5C
407	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 7C
1589	METER	ELECTRIC CABLE IN CONDUIT, LEAD IN, NO.14, 1 PAIR
16	METER	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6, 2C
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 4.25 METER
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 7.31 METER
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 8.53 METER
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 12.19 METER
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 12.80 METER
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 16.46 METER
1.2	METER	CONCRETE FOUNDATION, TYPE A
1.2	METER	CONCRETE FOUNDATION, TYPE D
10.1	METER	CONCRETE FOUNDATION, TYPE E, 750MM DIAMETER
16.6	METER	CONCRETE FOUNDATION, TYPE E, 900MM DIAMETER
2	EACH	DRILL EXISTING MANHOLE OR HANDHOLE
18	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED
18	EACH	INDUCTIVE LOOP DETECTOR
4	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	SERVICE INSTALLATION, POLE MOUNT
507	METER	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1/C (GREEN)
342	METER	ELECTRIC CABLE IN CONDUIT, NO. 20, 3/C, TWISTED, SHIELDED
1	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
12	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
6	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
257	METER	DETECTOR LOOP, TYPE 1
96	METER	PREFORMED DETECTOR LOOP
8	EACH	REMOVE EXISTING HANDHOLE
9	EACH	REMOVE EXISTING CONCRETE FOUNDATION

\*NOTE: 100% OF COST TO THE LONG GROVE FIRE PROTECTION DISTRICT.

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20' + L-2 = (6mH-0.6m)
E - MAST ARM POLE		SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

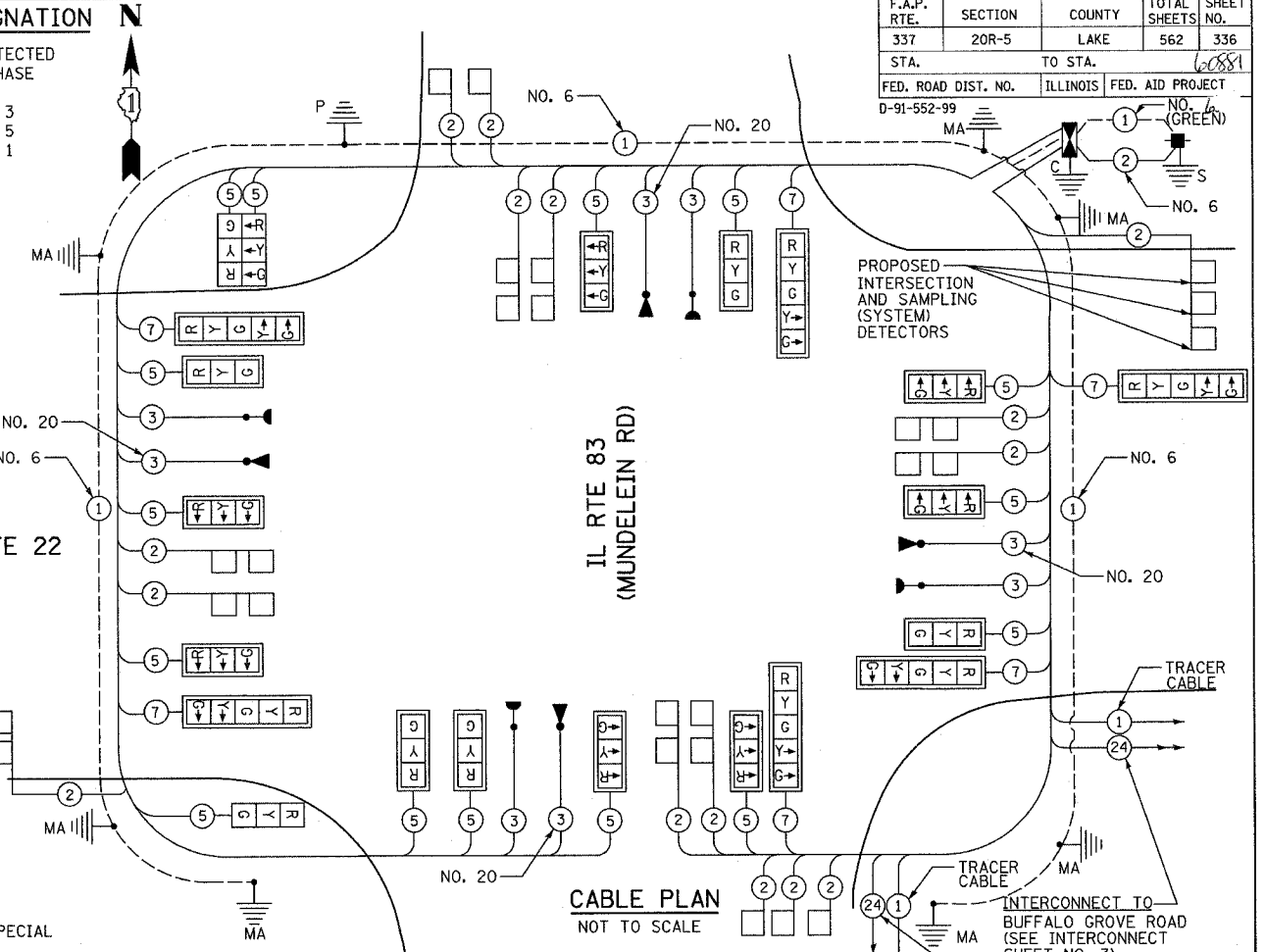


TYPE	NO. OF LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	21	135	17	0.50	178.5
(YELLOW)	21	135	25	0.25	131.25
(GREEN)	21	135	15	0.25	78.75
ARROW	12	135	12	0.10	12
PED. SIGNAL	0	90	25	1.00	0
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		252		0.05	
FLASHER				0.05	

ENERGY COSTS TO: TOTAL = 488.5

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAY/DISTRICT 1  
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: DOTTI PROSEN  
PHONE: (847) 816-5529  
COMPANY: COMED



EXISTING	PROPOSED	DESCRIPTION
⊖	⊖	8" (200mm) TRAFFIC SIGNAL SECTION
⊖	⊖	12" (300mm) TRAFFIC SIGNAL SECTION
⊖	⊖	12" (300mm) PEDESTRIAN SIGNAL SECTION
⊖	⊖	12" (300mm) PEDESTRIAN SIGNAL SECTION
⊖	⊖	CONTROLLER CABINET
⊖	⊖	SERVICE INSTALLATION
⊖	⊖	TELEPHONE CONNECTION
⊖	⊖	MAGNETIC DETECTOR
⊖	⊖	EMERGENCY VEHICLE LIGHT DETECTOR
⊖	⊖	CONFIRMATION BEACON
⊖	⊖	PUSHBUTTON DETECTOR
⊖	⊖	VEHICLE DETECTOR, INDUCTION LOOP
⊖	⊖	⊖ DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
⊖	⊖	⊖ DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
IL RTE 22 (FAP 337)  
IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
SCHEDULE OF QUANTITIES  
CABLE PLAN AND PHASE  
DESIGNATION DIAGRAM

ILLINOIS ROUTE 22 AT IL 83 (MUNDELEIN ROAD)  
SCALE: NONE  
DATE: 03-22-2004  
DRAWN BY: AMB  
DESIGNED BY: AMB  
CHECKED BY: JPS

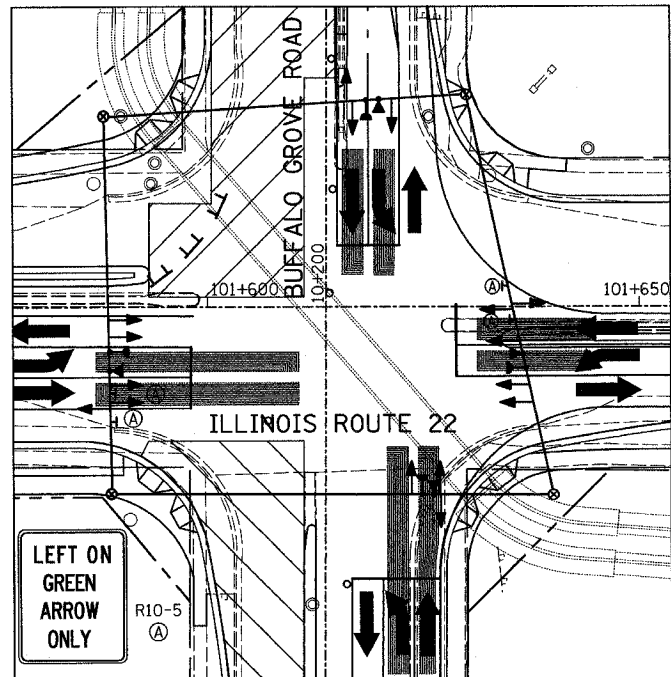
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BY	
FINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

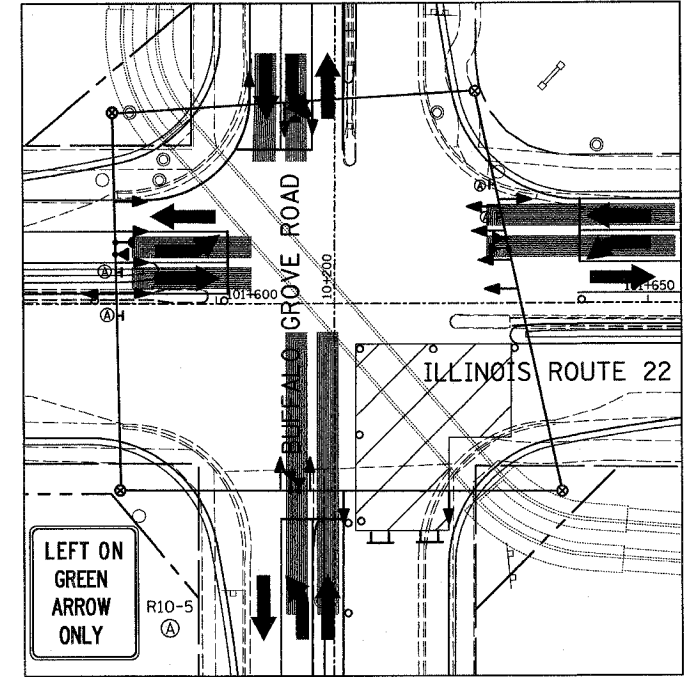


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	338
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
D-91-552-99		60881		

BY	DATE
FINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

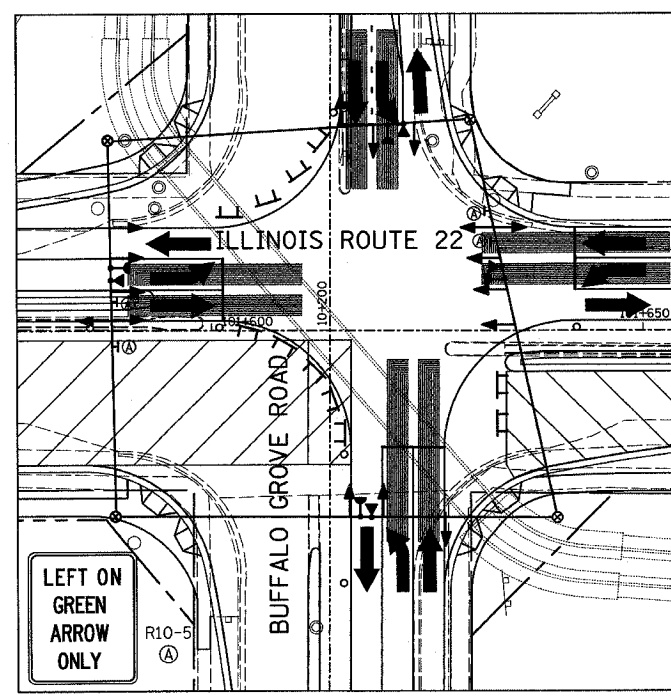


STAGE 1A

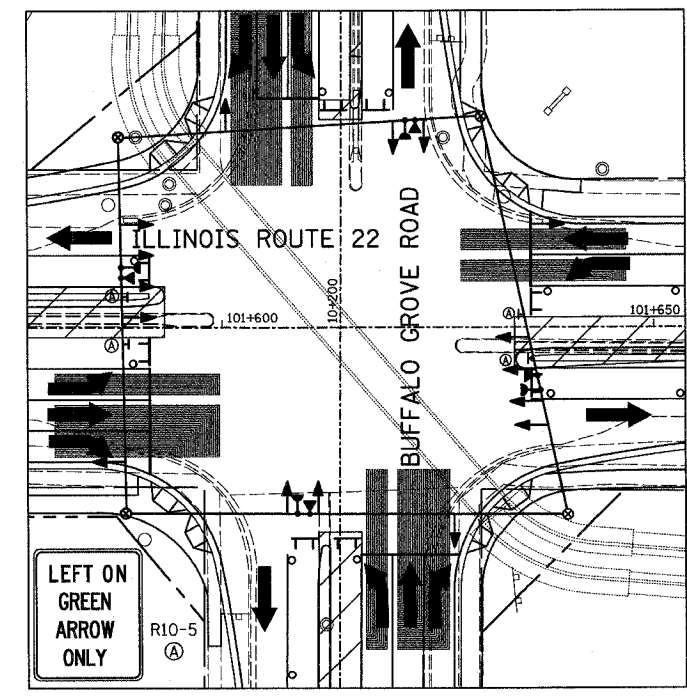


STAGE 2A

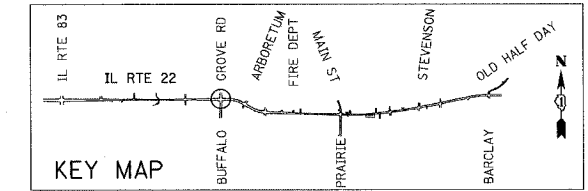
BY	DATE
ORIGINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	



STAGE 2



STAGE 3



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION IL RTE 22 (FAP 337) IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE) TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIP. (STAGES 1A,2,2A&3) ILLINOIS ROUTE 22 AT BUFFALO GROVE ROAD SCALE: 1:400 DATE: 03-22-2004
NAME	DATE	
		DRAWN BY: AMB DESIGNED BY: AMB CHECKED BY: JPS



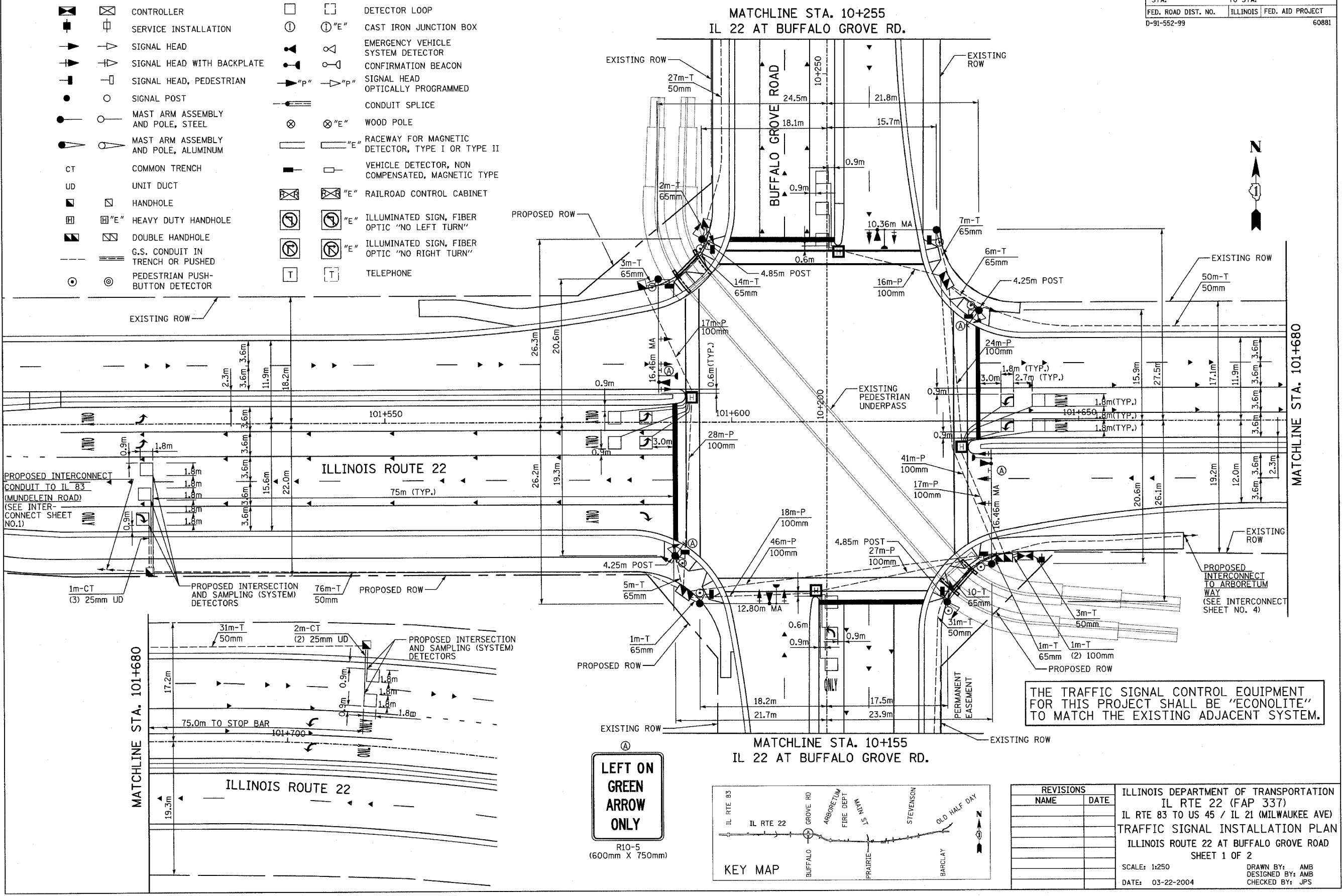
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	340
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
0-91-552-99		60881		

**TRAFFIC SIGNAL LEGEND**

- |                 |                 |                 |                 |
|-----------------|-----------------|-----------------|-----------------|
| <b>PROPOSED</b> | <b>EXISTING</b> | <b>PROPOSED</b> | <b>EXISTING</b> |
|                 |                 |                 |                 |
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| <b>CT</b>       | <b>UD</b>       |                 |                 |
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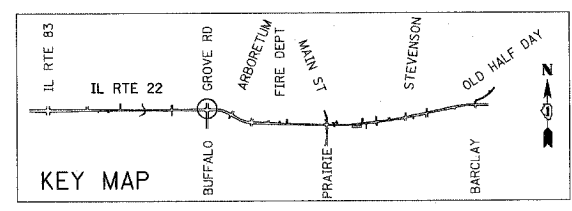
BY	DATE
FINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

BY	DATE
ORIGINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

**LEFT ON GREEN ARROW ONLY**  
R10-5 (600mm X 750mm)



REVISIONS	
NAME	DATE

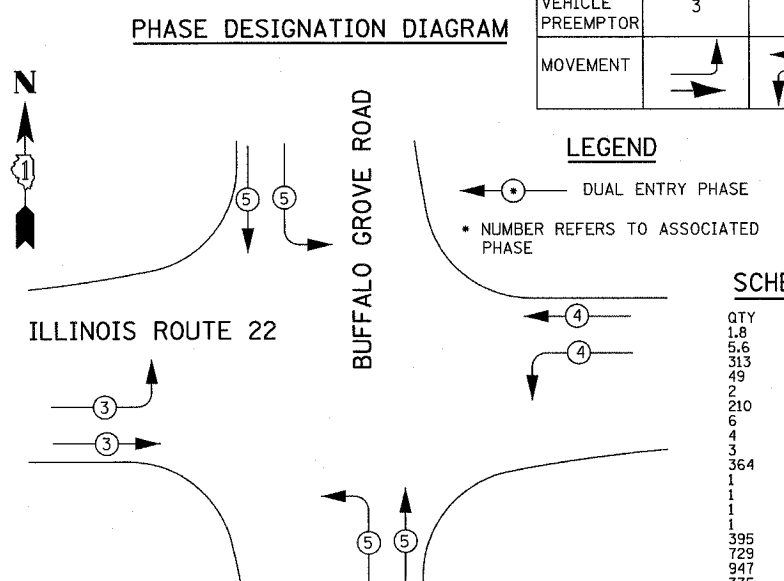
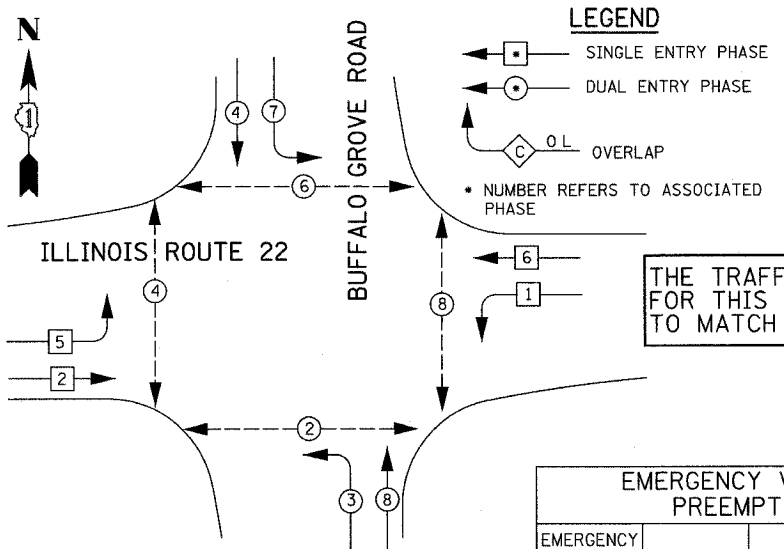
ILLINOIS DEPARTMENT OF TRANSPORTATION  
IL RTE 22 (FAP 337)  
IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
TRAFFIC SIGNAL INSTALLATION PLAN  
ILLINOIS ROUTE 22 AT BUFFALO GROVE ROAD  
SHEET 1 OF 2

SCALE: 1:250  
DATE: 03-22-2004  
DRAWN BY: AMB  
DESIGNED BY: AMB  
CHECKED BY: JPS





F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
337	20R-5	LAKE	562	342
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
0-91-552-99		60881		



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			

SCHEDULE OF QUANTITIES

QTY	UNIT	ITEM DESCRIPTION
1.8	SO M	SIGN PANEL - TYPE 1
5.6	SO M	SIGN PANEL - TYPE 2
313	METER	CONDUIT IN TRENCH, 50MM DIA., GALVANIZED STEEL
49	METER	CONDUIT IN TRENCH, 65MM DIA., GALVANIZED STEEL
2	METER	CONDUIT IN TRENCH, 100MM DIA., GALVANIZED STEEL
210	METER	CONDUIT PUSHED, 100MM DIA., GALVANIZED STEEL
6	EACH	HANDHOLE
4	EACH	HEAVY-DUTY HANDHOLE
3	EACH	DOUBLE HANDHOLE
364	METER	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER IN TYPE V CABINET, SPECIAL
1	EACH	TRANSCEIVER
1	EACH	MASTER CONTROLLER (SPECIAL)
1	EACH	TRANSCEIVER - FIBER OPTIC
395	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 2C
729	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 3C
947	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 5C
375	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 7C
1575	METER	ELECTRIC CABLE IN CONDUIT, LEAD IN, NO.14, 1 PAIR
10	METER	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6, 2C
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 4.25 METER
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 4.85 METER
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 10.36 METER
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 12.80 METER
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 16.46 METER
4.8	METER	CONCRETE FOUNDATION, TYPE A
1.2	METER	CONCRETE FOUNDATION, TYPE D
4.1	METER	CONCRETE FOUNDATION, TYPE E, 750MM DIAMETER
13.2	METER	CONCRETE FOUNDATION, TYPE E, 900MM DIAMETER
10	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED
13	EACH	INDUCTIVE LOOP DETECTOR
4	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	SERVICE INSTALLATION, POLE MOUNT
415	METER	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1/2 (GREEN)
318	METER	ELECTRIC CABLE IN CONDUIT, NO. 20, 3/4, TWISTED, SHIELDED
2	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-5-SECTION, BRACKET MOUNTED
8	EACH	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED
302	METER	PREFORMED DETECTOR LOOP
9	EACH	REMOVE EXISTING HANDHOLE
11	EACH	REMOVE EXISTING CONCRETE FOUNDATION

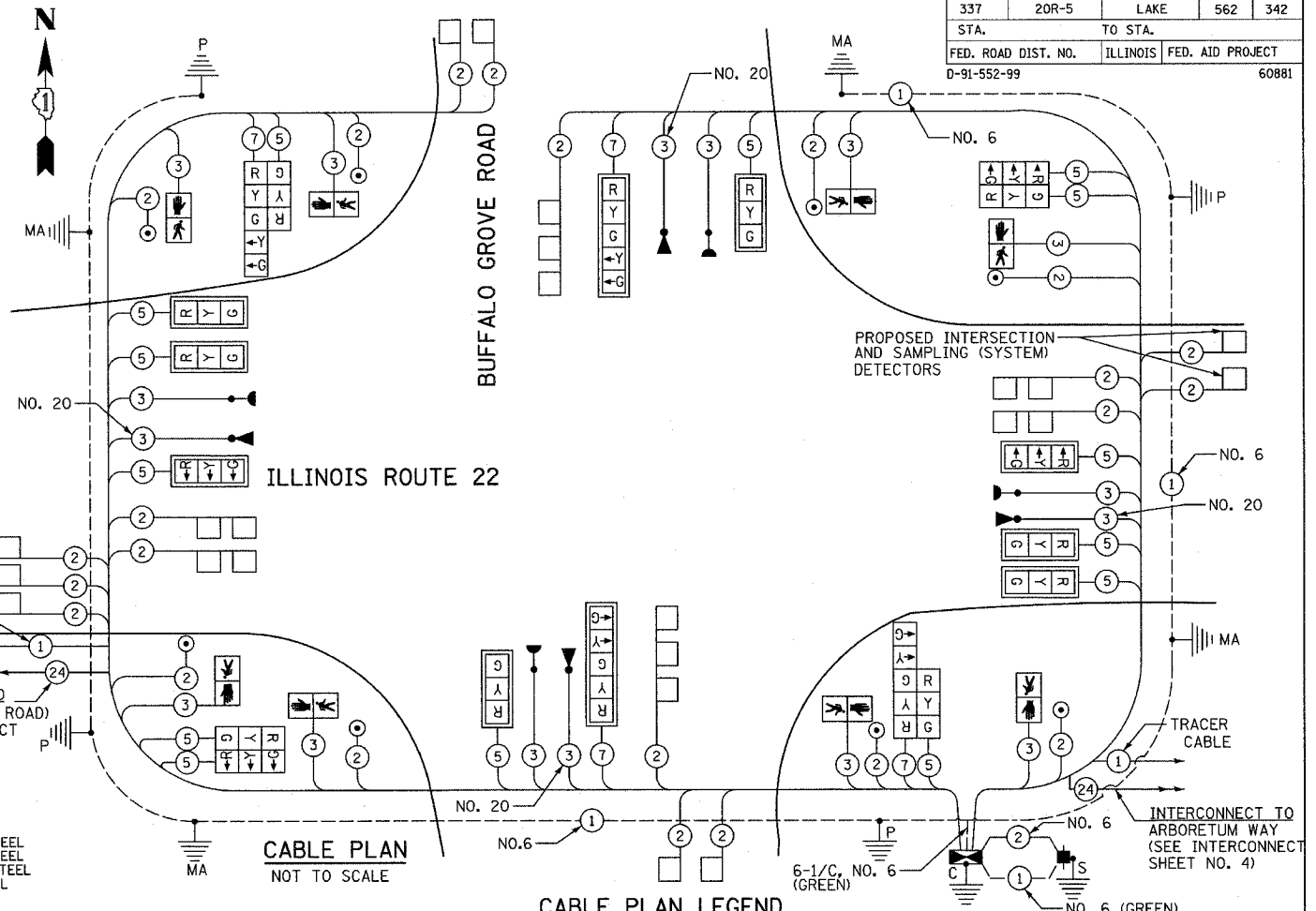
\*NOTE: 100% OF COST TO THE VILLAGE OF BUFFALO GROVE.

TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	18	135	17	0.50	153
(YELLOW)	18	135	25	0.25	112.5
(GREEN)	18	135	15	0.25	67.5
ARROW	8	135	12	0.10	9.6
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		252		0.05	
FLASHER				0.05	
ENERGY COSTS TO:				TOTAL =	642.6

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAY/DISTRICT 1  
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: DOTTI PROSEN  
PHONE: (847) 816-5529  
COMPANY: COMED

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20' + L - 2 = (6mH - 0.6m)
E - MAST ARM POLE		SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)



EXISTING	PROPOSED	DESCRIPTION
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		RAILROAD CONTROL CABINET
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
IL RTE 22 (FAP 337)  
IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
SCHEDULE OF QUANTITIES  
CABLE PLAN AND PHASE  
DESIGNATION DIAGRAM  
ILLINOIS ROUTE 22 AT BUFFALO GROVE ROAD  
SCALE: NONE  
DATE: 03-22-2004

DRAWN BY: AMB  
DESIGNED BY: AMB  
CHECKED BY: JPS

DATE	
BY	
FINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

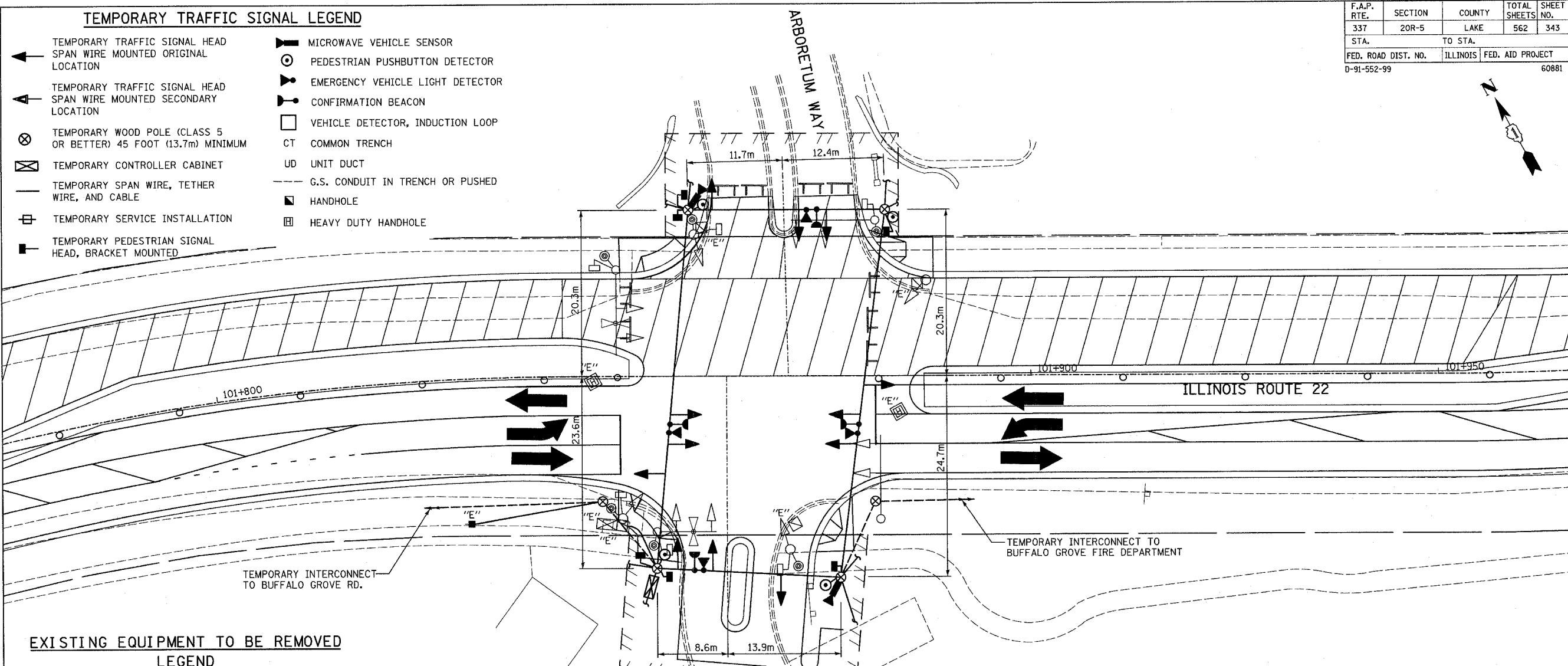
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BY	
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NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	343
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99		60881		

**TEMPORARY TRAFFIC SIGNAL LEGEND**

- ← TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- ↔ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- ⊗ TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM
- ⊠ TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- ⊕ TEMPORARY SERVICE INSTALLATION
- ⬮ TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- ⬮ MICROWAVE VEHICLE SENSOR
- ⊙ PEDESTRIAN PUSHBUTTON DETECTOR
- ⬮ EMERGENCY VEHICLE LIGHT DETECTOR
- ⬮ CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- CT COMMON TRENCH
- UD UNIT DUCT
- G.S. CONDUIT IN TRENCH OR PUSHED
- HANDHOLE
- ▣ HEAVY DUTY HANDHOLE

BY	DATE
FINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	



**EXISTING EQUIPMENT TO BE REMOVED LEGEND**

- ⬮ EXISTING SIGNAL HEAD TO BE REMOVED
- "E" ■ EXISTING SERVICE INSTALLATION TO BE REMOVED
- "E" ⊠ EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
- "E" ▣ EXISTING HANDHOLE TO BE REMOVED
- "E" ▣ EXISTING HEAVY DUTY HANDHOLE TO BE REMOVED
- ⬮ EXISTING EMERGENCY VEHICLE SYSTEM DETECTOR TO BE REMOVED
- ⬮ EXISTING EMERGENCY VEHICLE SYSTEM BEACON TO BE REMOVED
- EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
- EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
- ⊙ EXISTING PEDESTRIAN PUSHBUTTON TO BE REMOVED
- EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED
- EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED

BY	DATE
ORIGINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICKUP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

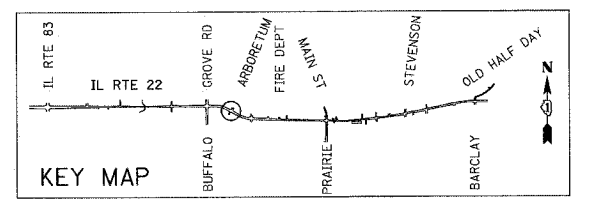
- AGENCY: VILLAGE OF BUFFALO GROVE
- 2 EACH LIGHT DETECTOR
  - 1 EACH LIGHT DETECTOR AMPLIFIER

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 6 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 8 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 4 EACH TRAFFIC SIGNAL BACKPLATE
- 4 EACH STEEL MAST ARM AND POLE
- 4 EACH SIGNAL POST
- 6 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 6 EACH PEDESTRIAN PUSHBUTTON
- 1 EACH SERVICE INSTALLATION

**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL (S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12" (300mm). HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.



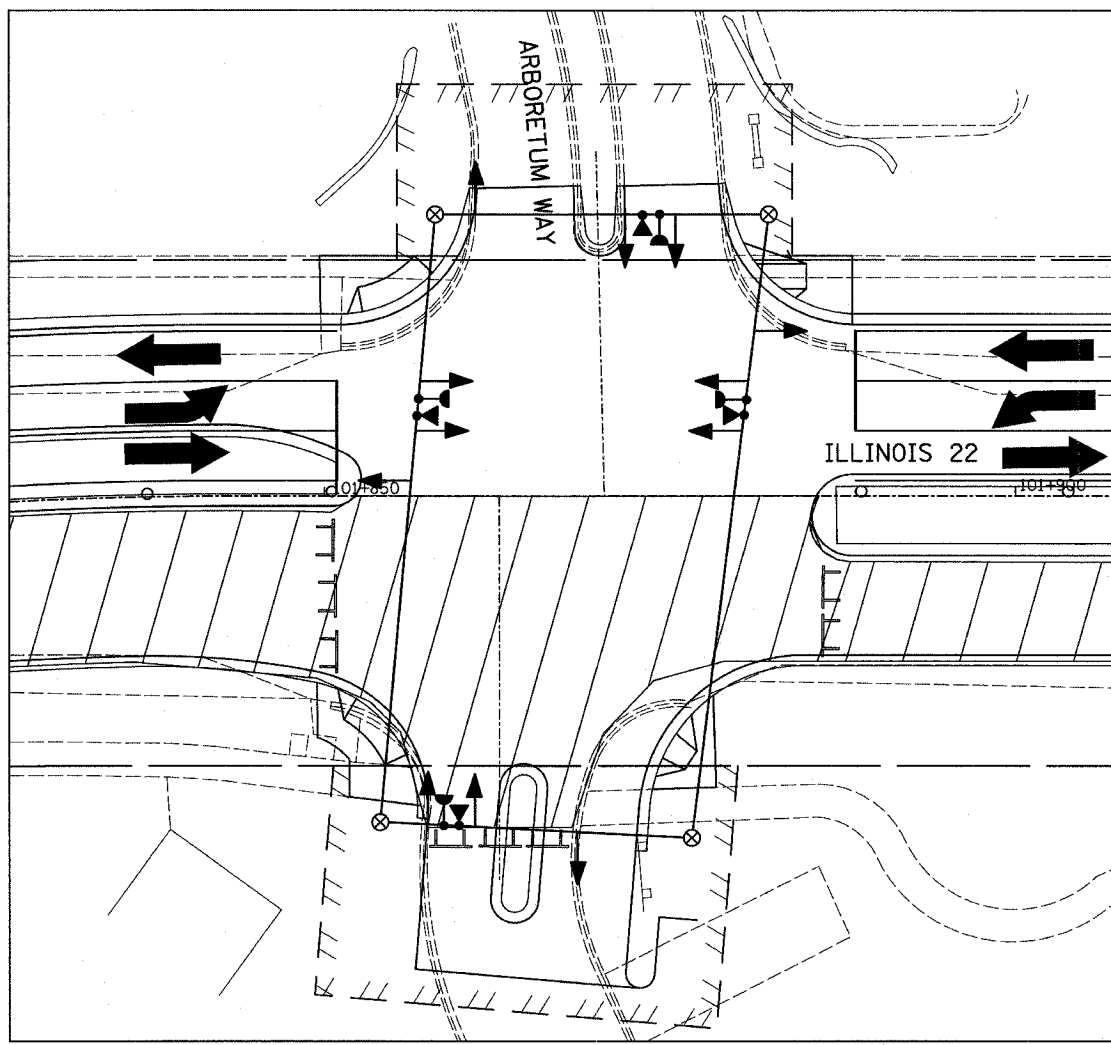
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 TEMPORARY TRAFFIC SIGNAL  
 INSTALLATION AND REMOVE EXISTING  
 TRAFFIC SIGNAL EQUIPMENT (STAGE 1)  
 ILLINOIS ROUTE 22 AT ARBORETUM WAY  
 SCALE: 1:250  
 DATE: 03-22-2004  
 DRAWN BY: AMB  
 DESIGNED BY: AMB  
 CHECKED BY: JPS

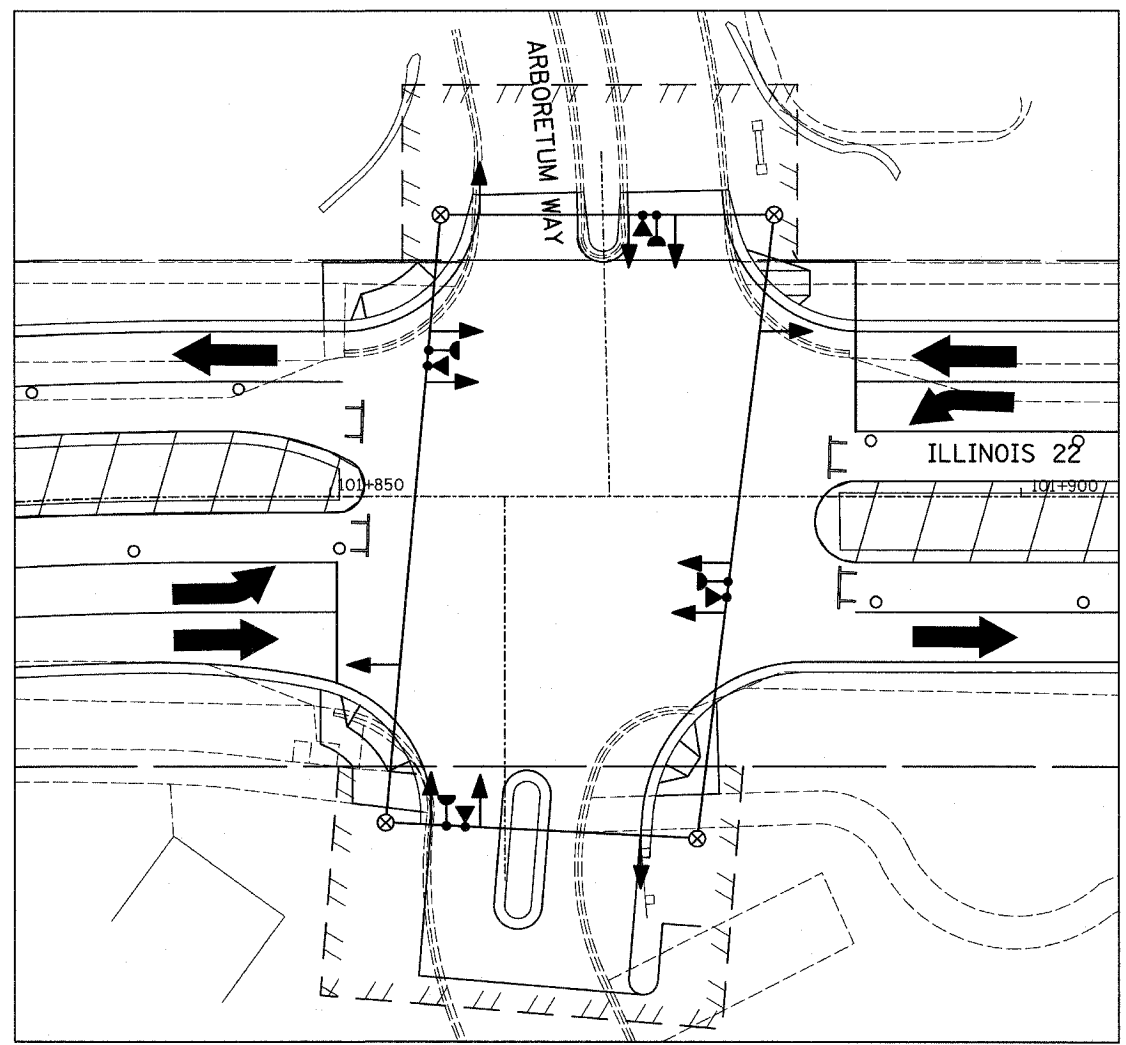
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	344
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
D-91-552-99		60881		

FINAL SURVEY	BY	DATE
SURVEY PLOTTED		
NOTE BOOK TEMPLATE		
AREAS CHECKED		
NO.		

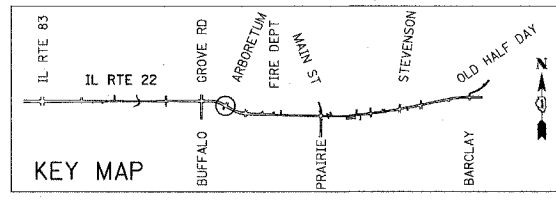
ORIGINAL SURVEY	BY	DATE
SURVEY PLOTTED		
NOTE BOOK TEMPLATE		
AREAS CHECKED		
NO.		



STAGE 2



STAGE 3



REVISIONS	
NAME	DATE

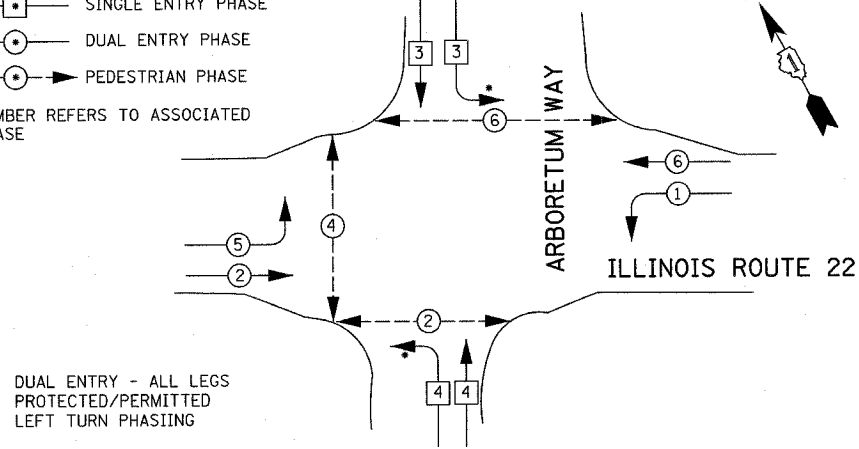
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 TEMPORARY TRAFFIC SIGNAL  
 INSTALLATION AND REMOVE EXISTING  
 TRAFFIC SIGNAL EQUIPMENT (STAGES 2&3)  
 ILLINOIS ROUTE 22 AT ARBORETUM WAY  
 SCALE: 1:250  
 DATE: 03-22-2004  
 DRAWN BY: AMB  
 DESIGNED BY: AMB  
 CHECKED BY: JPS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	345
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99			60881	

**LEGEND**

- ◻ SINGLE ENTRY PHASE
- ◉ DUAL ENTRY PHASE
- ◉ PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

**CONTROLLER SEQUENCE**

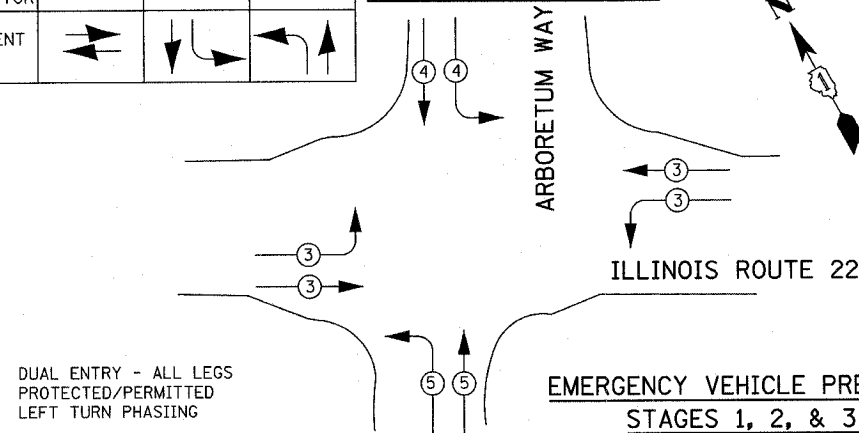


DUAL ENTRY - ALL LEGS PROTECTED/PERMITTED LEFT TURN PHASING

**EMERGENCY VEHICLE PREEMPTORS**

EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	→	→	→

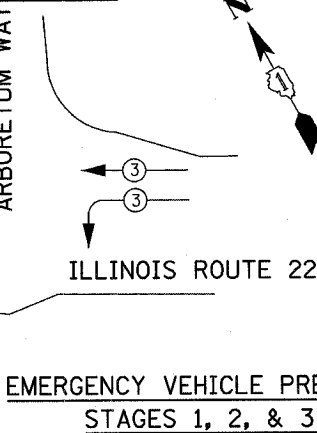
**CONTROLLER SEQUENCE**



DUAL ENTRY - ALL LEGS PROTECTED/PERMITTED LEFT TURN PHASING

**TEMPORARY PHASE DESIGNATION DIAGRAM STAGES 1, 2, & 3 CONSTRUCTION**

**CONTROLLER SEQUENCE**

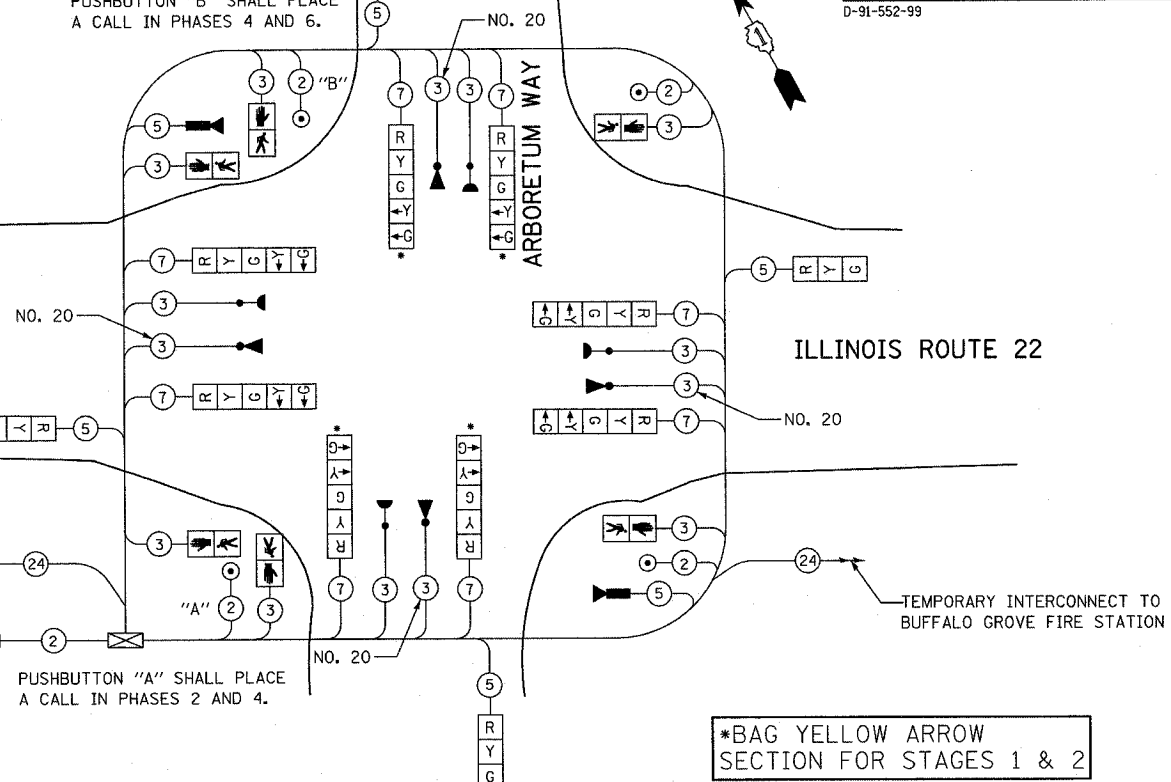


**EMERGENCY VEHICLE PREEMPTION SEQUENCE STAGES 1, 2, & 3 CONSTRUCTION**

**TEMPORARY CABLE DIAGRAM LEGEND**

- ◻ TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)
- ◻ TEMPORARY CONTROLLER CABINET
- ◻ TEMPORARY SERVICE INSTALLATION
- 5 INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- ◉ EMERGENCY VEHICLE LIGHT DETECTOR
- ◉ CONFIRMATION BEACON
- ◻ VEHICLE DETECTOR, INDUCTION LOOP
- ◉ PEDESTRIAN PUSHBUTTON DETECTOR
- ◻ 12" (300mm) PEDESTRIAN SIGNAL SECTION
- V VIDEO DETECTION
- ◉ MICROWAVE VEHICLE SENSOR

PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6.



**TEMPORARY SIGNALS CABLE PLAN STAGES 1, 2 & 3 CONSTRUCTION**

NOT TO SCALE

\*BAG YELLOW ARROW SECTION FOR STAGES 1 & 2

DATE	BY
FINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

DATE	BY
ORIGINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

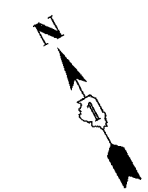
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	12	135	17	0.50	810
(YELLOW)	12	135	25	0.25	405
(GREEN)	12	135	15	0.25	405
ARROW	16	135	12	0.10	216
PED. SIGNAL	6	90	25	1.00	540
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		252		0.05	
FLASHER				0.05	
ENERGY COSTS TO:	TOTAL =				2476

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAY/DISTRICT 1  
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: DOTTI PROSEN  
PHONE: (847) 816-5529  
COMPANY: COMED

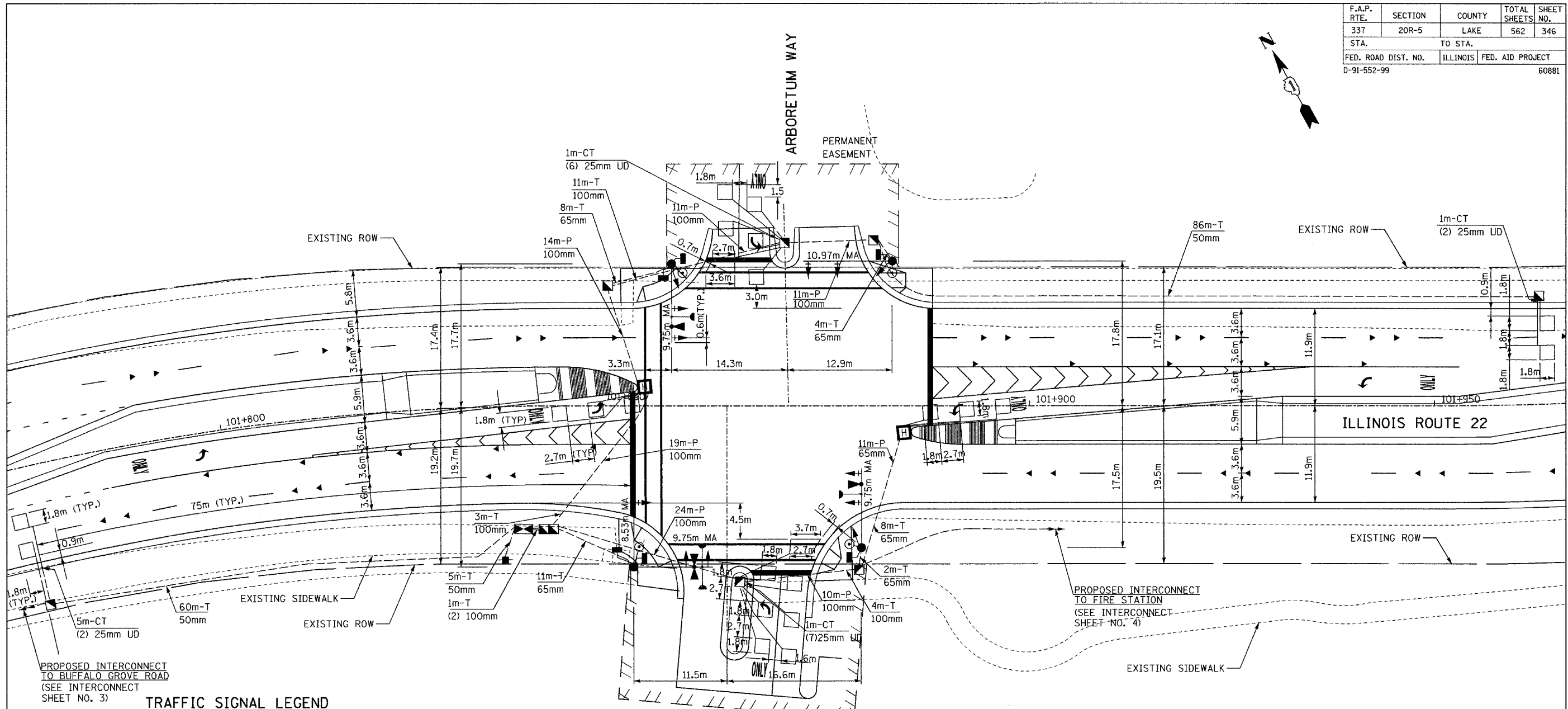
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION IL RTE 22 (FAP 337) IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE) TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM (STAGES 1,2,&3) ILLINOIS ROUTE 22 AT ARBORETUM WAY SCALE: NONE DATE: 03-22-2004
NAME	DATE	
		DRAWN BY: AMB DESIGNED BY: AMB CHECKED BY: JPS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	346
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99		60881		



BY	DATE
FINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE AREAS CHECKED	
NO.	

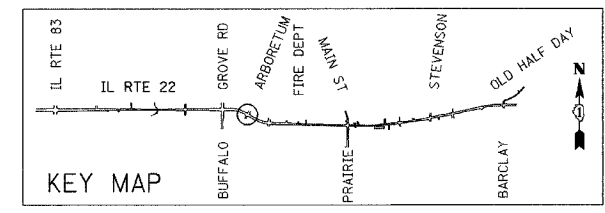
BY	DATE
ORIGINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE AREAS CHECKED	
NO.	



**TRAFFIC SIGNAL LEGEND**

PROPOSED	EXISTING	DESCRIPTION
		CONTROLLER
		SERVICE INSTALLATION
		SIGNAL HEAD
		SIGNAL HEAD WITH BACKPLATE
		SIGNAL HEAD, PEDESTRIAN
		SIGNAL POST
		MAST ARM ASSEMBLY AND POLE, STEEL
		MAST ARM ASSEMBLY AND POLE, ALUMINUM
CT		COMMON TRENCH
UD		UNIT DUCT
		HANDHOLE
		HEAVY DUTY HANDHOLE
		DOUBLE HANDHOLE
		G.S. CONDUIT IN TRENCH OR PUSHED
		PEDESTRIAN PUSH-BUTTON DETECTOR
		DETECTOR LOOP
		CAST IRON JUNCTION BOX
		EMERGENCY VEHICLE SYSTEM DETECTOR
		CONFIRMATION BEACON
		SIGNAL HEAD OPTICALLY PROGRAMMED
		CONDUIT SPLICE
		WOOD POLE
		RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II
		VEHICLE DETECTOR, NON COMPENSATED, MAGNETIC TYPE
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
T	T	TELEPHONE

THE TRAFFIC SIGNAL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
**TRAFFIC SIGNAL INSTALLATION PLAN**  
 ILLINOIS ROUTE 22 AT ARBORETUM WAY  
 SCALE: 1:250  
 DATE: 03-22-2004  
 DRAWN BY: AMB  
 DESIGNED BY: AMB  
 CHECKED BY: JPS

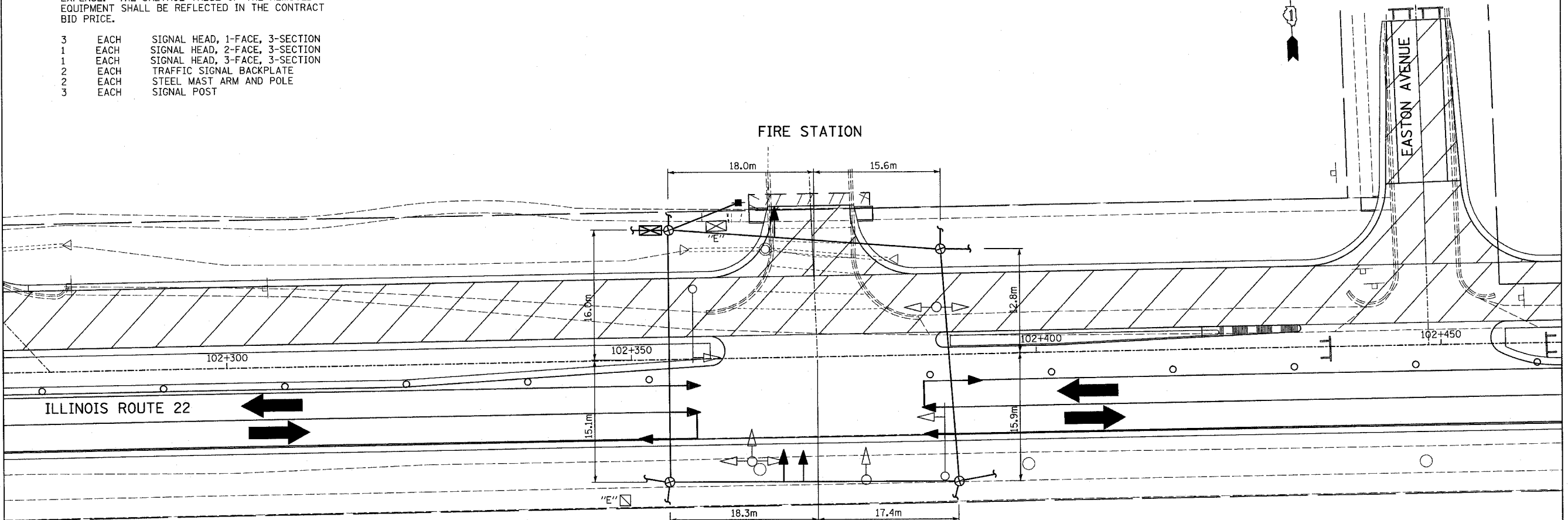


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	348
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99			60881	

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 3 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 1 EACH SIGNAL HEAD, 2-FACE, 3-SECTION
- 1 EACH SIGNAL HEAD, 3-FACE, 3-SECTION
- 2 EACH TRAFFIC SIGNAL BACKPLATE
- 2 EACH STEEL MAST ARM AND POLE
- 3 EACH SIGNAL POST

BY	DATE
FINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	



**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

- ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL (S) SHALL BE FURNISHED BY THE CONTRACTOR.
- ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12" (300mm). HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
- ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

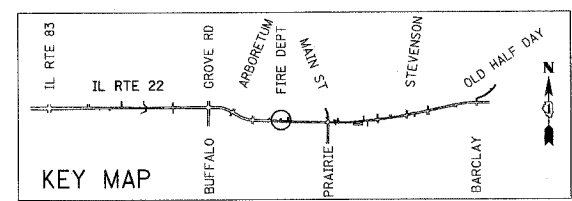
**EXISTING EQUIPMENT TO BE REMOVED**

- LEGEND**
- ◁ EXISTING SIGNAL HEAD TO BE REMOVED
  - "E" ■ EXISTING SERVICE INSTALLATION TO BE REMOVED
  - "E" ⊠ EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
  - "E" □ EXISTING HANDHOLE TO BE REMOVED
  - "E" ⊞ EXISTING HEAVY DUTY HANDHOLE TO BE REMOVED
  - ⊖ EXISTING EMERGENCY VEHICLE SYSTEM DETECTOR TO BE REMOVED
  - ⊖ EXISTING EMERGENCY VEHICLE SYSTEM BEACON TO BE REMOVED
  - EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
  - ⊔ EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
  - ⊙ EXISTING PEDESTRIAN PUSHBUTTON TO BE REMOVED
  - EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED
  - EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED

**TEMPORARY TRAFFIC SIGNAL LEGEND**

- ◁ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- ◁ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- ⊗ TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM
- ⊠ TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- ⊕ TEMPORARY SERVICE INSTALLATION
- TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- ⊙ MICROWAVE VEHICLE SENSOR
- ⊙ PEDESTRIAN PUSHBUTTON DETECTOR
- ⊖ EMERGENCY VEHICLE LIGHT DETECTOR
- ⊖ CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- CT COMMON TRENCH
- UD UNIT DUCT
- G.S. CONDUIT IN TRENCH OR PUSHED
- HANDHOLE
- ⊞ HEAVY DUTY HANDHOLE

BY	DATE
ORIGINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	



REVISIONS	
NAME	DATE

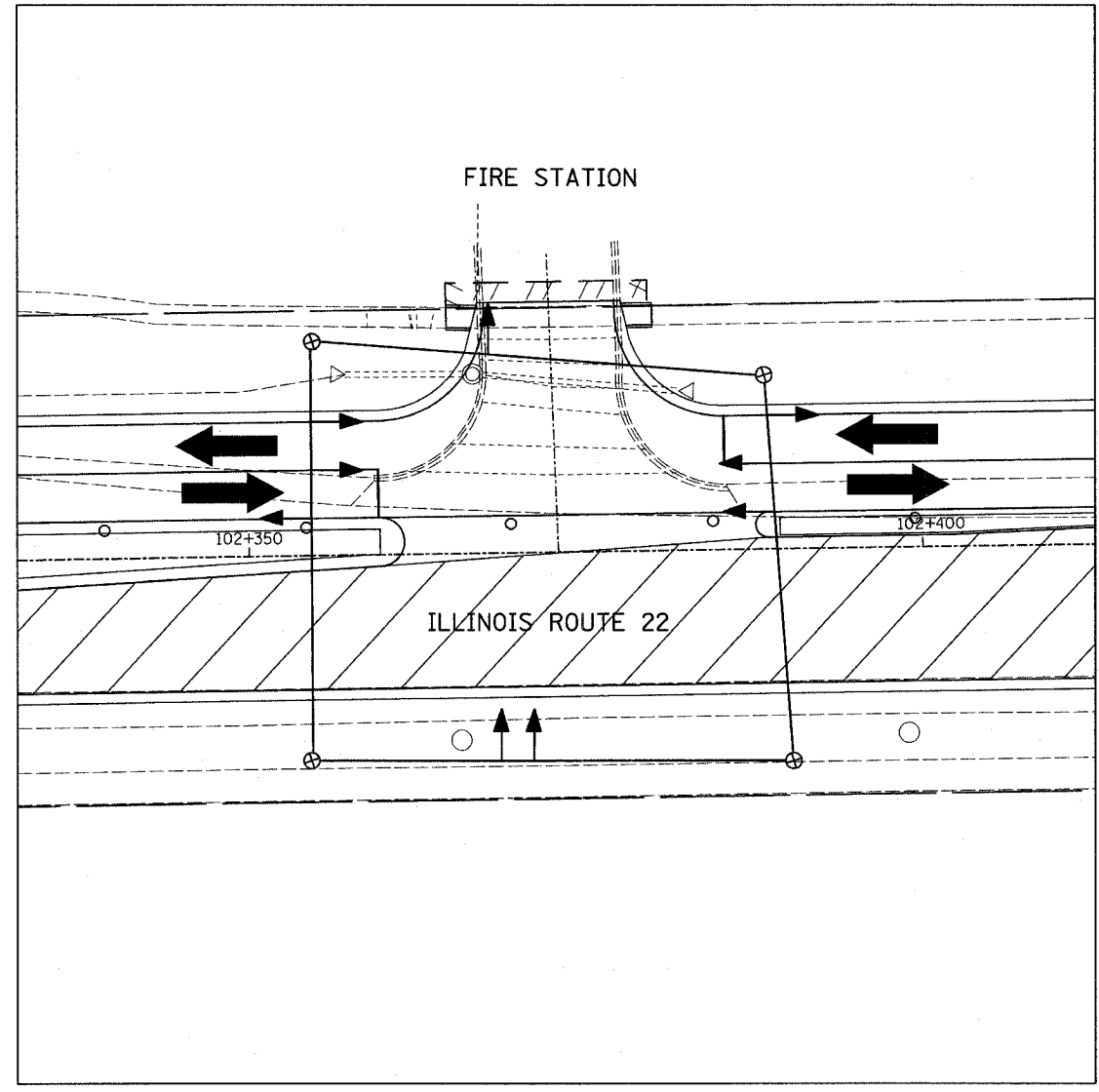
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 TEMPORARY TRAFFIC SIGNAL  
 INSTALLATION AND REMOVE EXISTING  
 TRAFFIC SIGNAL EQUIPMENT (STAGE 1)  
 ILLINOIS ROUTE 22 AT FIRE STATION  
 SCALE: 1:250  
 DATE: 03-22-2004  
 DRAWN BY: AMB  
 DESIGNED BY: AMB  
 CHECKED BY: JPS



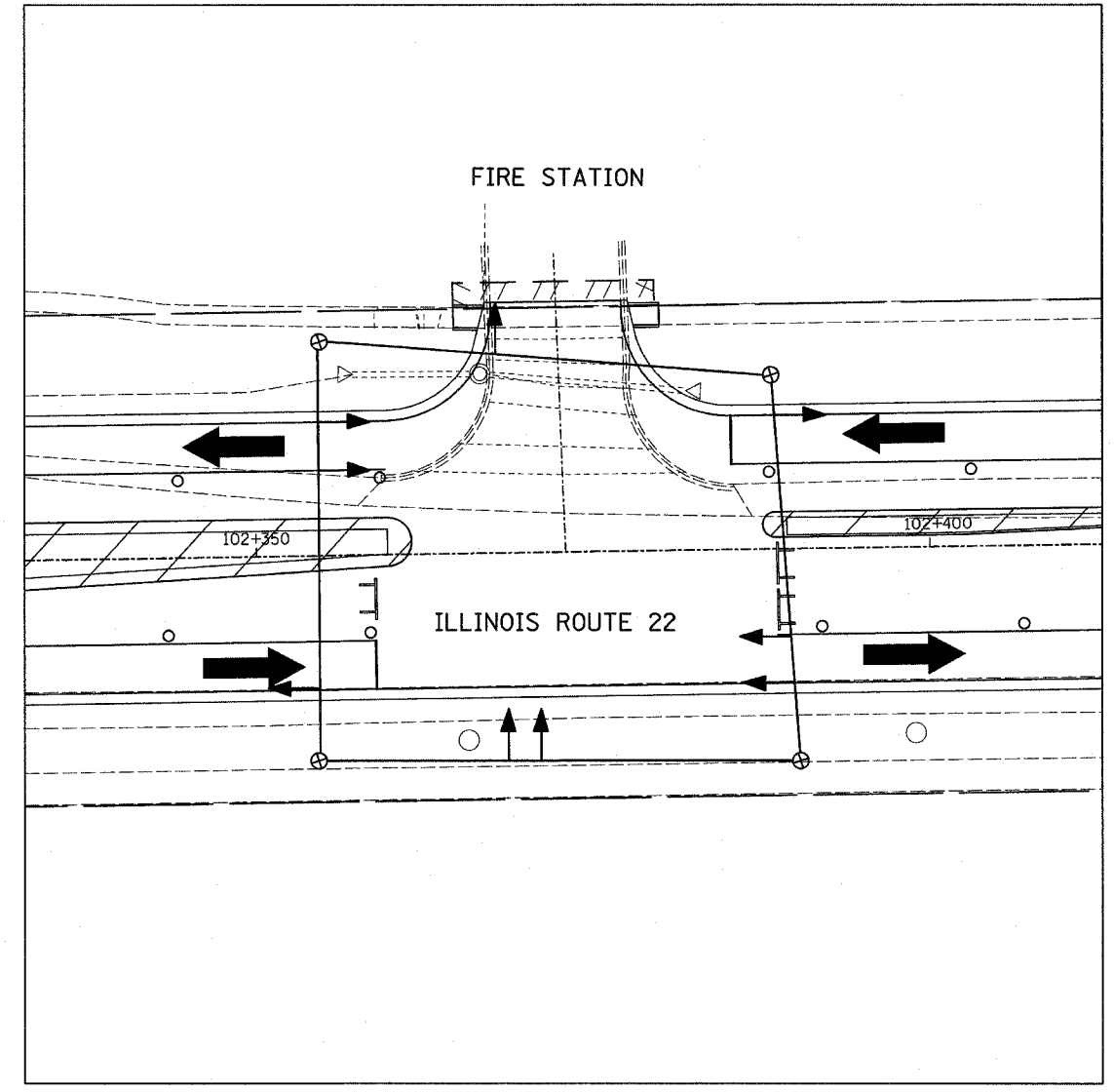
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	349
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
D-91-552-99		60881		

FINAL SURVEYED	BY	DATE
SURVEY PLOTTED		
NOTE BOOK TEMPLATE		
AREAS CHECKED		
NO.		

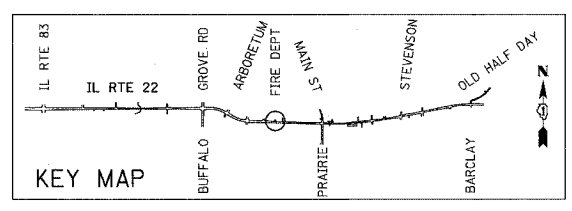
ORIGINAL SURVEYED	BY	DATE
SURVEY PLOTTED		
NOTE BOOK TEMPLATE		
AREAS CHECKED		
NO.		



STAGE 2

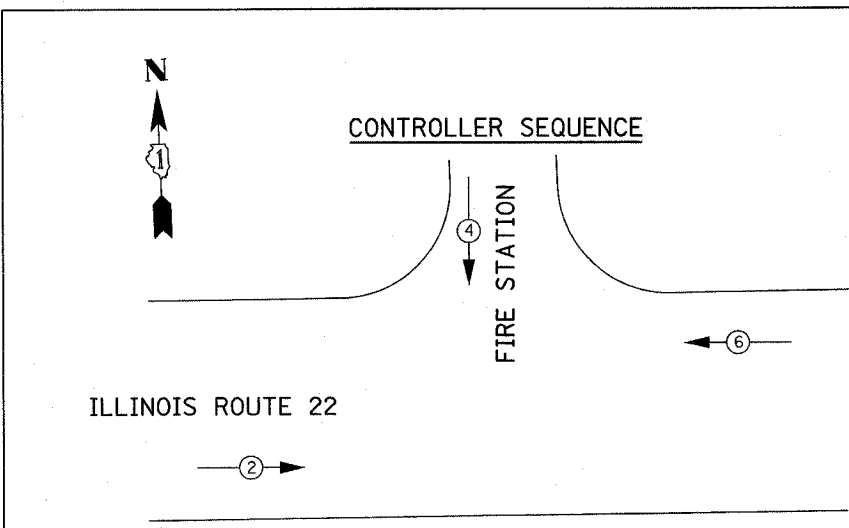


STAGE 3



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION IL RTE 22 (FAP 337) IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE) TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT (STAGES 2&3) ILLINOIS ROUTE 22 AT FIRE STATION SCALE: 1:250 DATE: 03-22-2004
NAME	DATE	
		DRAWN BY: AMB DESIGNED BY: AMB CHECKED BY: JPS

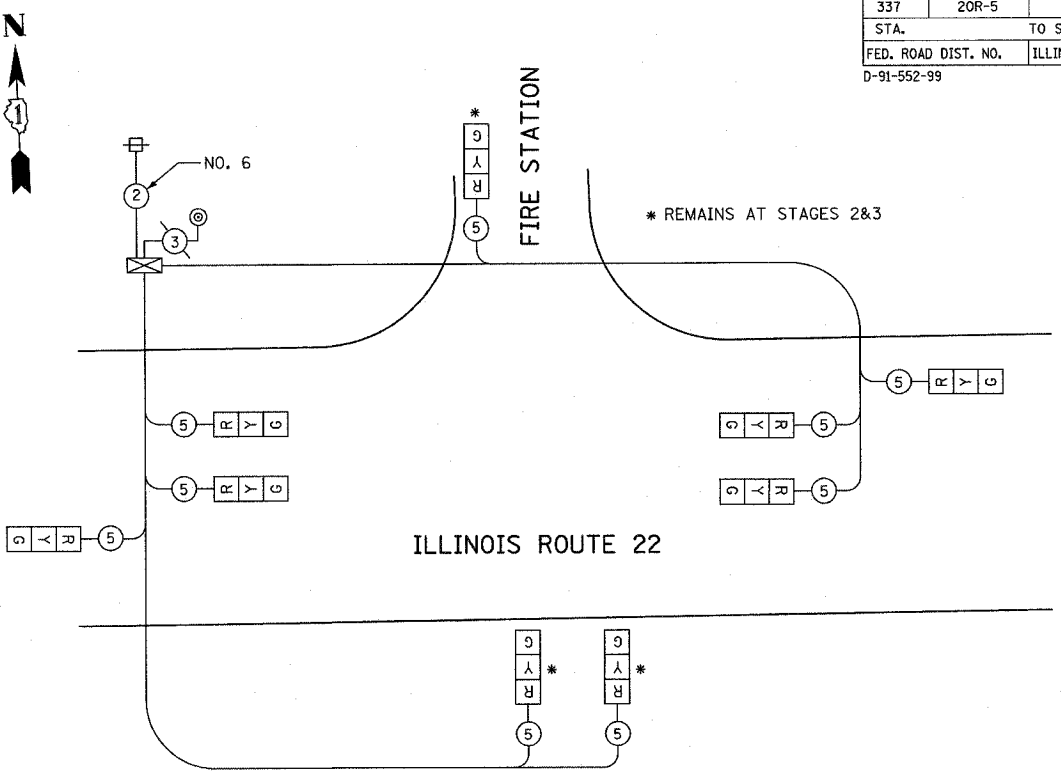
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	350
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
0-91-552-99		60881		



**TEMPORARY PHASE DESIGNATION DIAGRAM  
STAGES 1, 2, & 3 CONSTRUCTION**

**LEGEND**

- ← (1) DUAL ENTRY PHASE
- NUMBER REFERS TO ASSOCIATED PHASE
- PREEMPTOR PUSHBUTTON ACTUATES NORMAL SEQUENCE PHASE 4



**TEMPORARY SIGNALS CABLE PLAN  
STAGES 1, 2, & 3 CONSTRUCTION**

NOT TO SCALE

BY	DATE
ORIGINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

BY	DATE
ORIGINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	9	135	17	0.50	607.5
(YELLOW)	9	135	25	0.25	303.75
(GREEN)	9	135	15	0.25	303.75
ARROW	0	135	12	0.10	0
PED. SIGNAL	0	90	25	1.00	0
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		252		0.05	
FLASHER				0.05	

ENERGY COSTS TO: TOTAL = 1315

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAY/DISTRICT 1  
201 WEST CENTER COURT/SCHALMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: DOTTI PROSEN  
PHONE: (847) 816-5529  
COMPANY: COMED

**TEMPORARY CABLE DIAGRAM LEGEND**

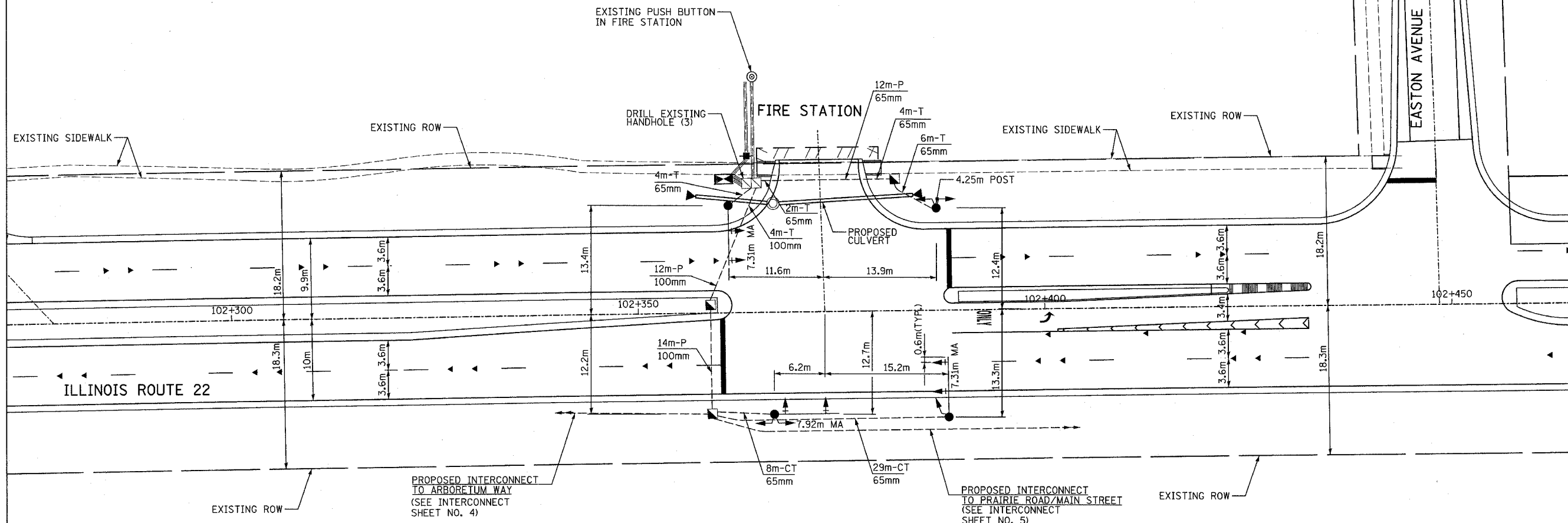
- [R] TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)
- [X] TEMPORARY CONTROLLER CABINET
- [S] TEMPORARY SERVICE INSTALLATION
- (5) INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- ▲ EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- [ ] VEHICLE DETECTOR, INDUCTION LOOP
- ⊙ PEDESTRIAN PUSHBUTTON DETECTOR
- [P] 12" (300mm) PEDESTRIAN SIGNAL SECTION
- V VIDEO DETECTION
- ▶ MICROWAVE VEHICLE SENSOR

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION IL RTE 22 (FAP 337) IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE) TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM (STAGES 1,2&3) ILLINOIS ROUTE 22 AT FIRE STATION SCALE: NONE DATE: 03-22-2004
NAME	DATE	
		DRAWN BY: AMB DESIGNED BY: AMB CHECKED BY: JPS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	351
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99			60881	



NOTE: CONNECTION TO EXISTING FIRE STATION PUSH BUTTON WILL NEED TO BE RECONNECTED TO CONTROLLER CABINET.

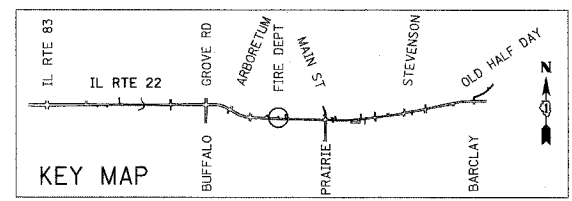


BY	DATE
FINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

BY	DATE
ORIGINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

TRAFFIC SIGNAL LEGEND			
PROPOSED	EXISTING	PROPOSED	EXISTING

THE TRAFFIC SIGNAL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



REVISIONS	
NAME	DATE

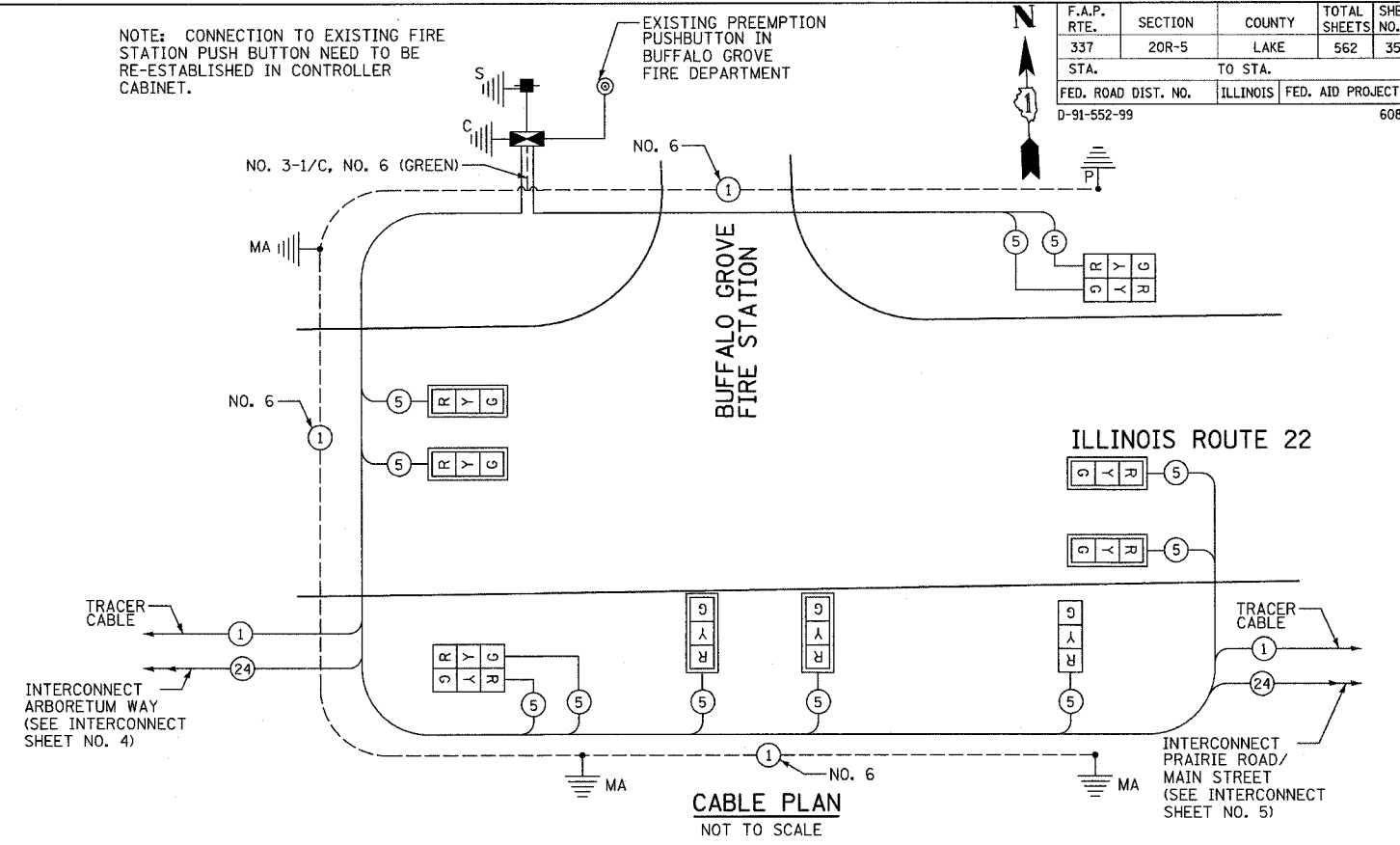
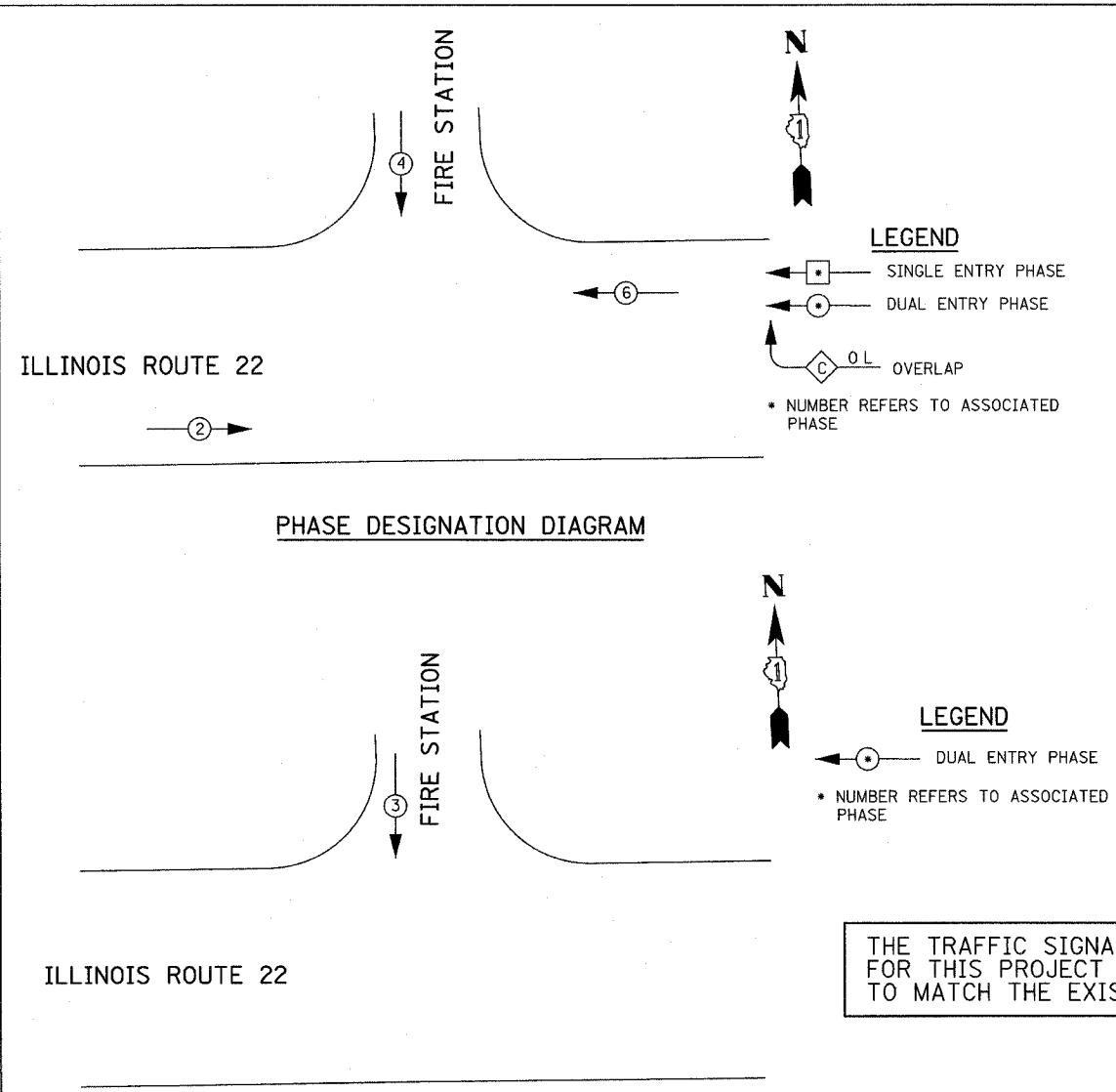
ILLINOIS DEPARTMENT OF TRANSPORTATION  
IL RTE 22 (FAP 337)  
IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
TRAFFIC SIGNAL INSTALLATION PLAN  
ILLINOIS ROUTE 22 AT FIRE STATION

SCALE: 1:250  
DATE: 03-22-2004

DRAWN BY: AMB  
DESIGNED BY: AMB  
CHECKED BY: JPS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	352
STA.		TO STA.		
D-91-552-99		ILLINOIS FED. AID PROJECT		
60881				

NOTE: CONNECTION TO EXISTING FIRE STATION PUSH BUTTON NEED TO BE RE-ESTABLISHED IN CONTROLLER CABINET.



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

EXISTING		PROPOSED	
	8" (200mm) TRAFFIC SIGNAL SECTION		12" (300mm) TRAFFIC SIGNAL SECTION
	12" (300mm) PEDESTRIAN SIGNAL SECTION		12" (300mm) PEDESTRIAN SIGNAL SECTION
	CONTROLLER CABINET		SERVICE INSTALLATION
	TELEPHONE CONNECTION		MAGNETIC DETECTOR
	EMERGENCY VEHICLE LIGHT DETECTOR		CONFIRMATION BEACON
	PUSHBUTTON DETECTOR		VEHICLE DETECTOR, INDUCTION LOOP
	1		2

EMERGENCY VEHICLE PREEMPTION SEQUENCE

SCHEDULE OF QUANTITIES

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	11	135	17	0.50	93.5
(YELLOW)	11	135	25	0.25	68.75
(GREEN)	11	135	15	0.25	41.25
ARROW	0	135	12	0.10	0
PED. SIGNAL	0	90	25	1.00	0
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		252		0.05	

QTY	UNIT	ITEM DESCRIPTION
53	METER	CONDUIT IN TRENCH, 65MM DIA., GALVANIZED STEEL
4	METER	CONDUIT IN TRENCH, 100MM DIA., GALVANIZED STEEL
12	METER	CONDUIT PUSHED, 65MM DIA., GALVANIZED STEEL
16	METER	CONDUIT PUSHED, 100MM DIA., GALVANIZED STEEL
3	EACH	HANDHOLE
57	METER	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER IN TYPE IV CABINET, SPECIAL
1	EACH	TRANSCEIVER - FIBER OPTIC
609	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 5C
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 4.25 METER
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 7.31 METER
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 7.92 METER
1.2	METER	CONCRETE FOUNDATION, TYPE A
1.2	METER	CONCRETE FOUNDATION, TYPE D
9	METER	CONCRETE FOUNDATION, TYPE E, 750MM DIAMETER
3	EACH	DRILL EXISTING HANDHOLE
6	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	SERVICE INSTALLATION, POLE MOUNT
128	METER	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1/2 (GREEN)
1	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
6	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	REMOVE EXISTING HANDHOLE
6	EACH	REMOVE EXISTING CONCRETE FOUNDATION

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20' + L - 2 = (6mH - 0.6m)
E - MAST ARM POLE		SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

FLASHER 0.05  
 ENERGY COSTS TO: TOTAL = 303.5  
 ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAY/DISTRICT 1  
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096  
 ENERGY SUPPLY: CONTACT: DOTTI PROSEN  
 PHONE: (847) 816-5529  
 COMPANY: COMED

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 SCHEDULE OF QUANTITIES  
 CABLE PLAN AND PHASE  
 DESIGNATION DIAGRAM  
 ILLINOIS ROUTE 22 AT FIRE STATION  
 SCALE: NONE  
 DATE: 03-22-2004  
 DRAWN BY: AMB  
 DESIGNED BY: AMB  
 CHECKED BY: JPS

DATE	BY

FINAL SURVEY PLOTTED  
 SURVEY NOTE BOOK TEMPLATE  
 AREAS CHECKED

DATE	BY

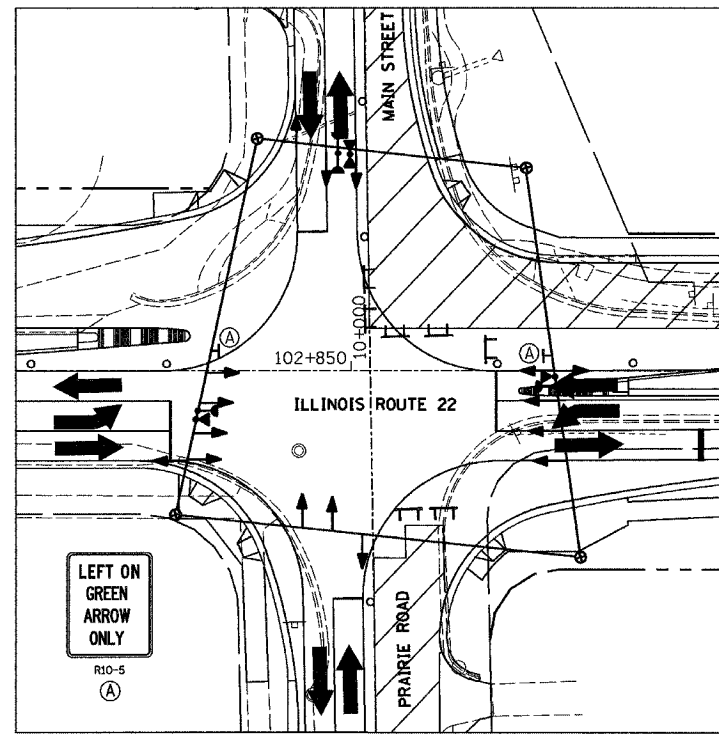
ORIGINAL SURVEY PLOTTED  
 SURVEY NOTE BOOK TEMPLATE  
 AREAS CHECKED



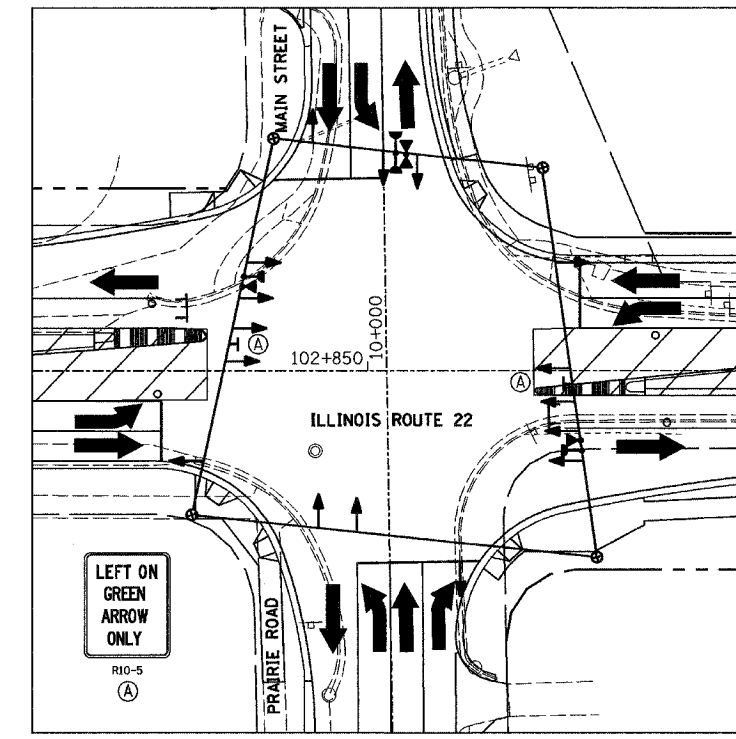
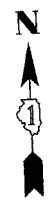


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	355
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99		60881		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMP. DATE		
	AREAS CHECKED		



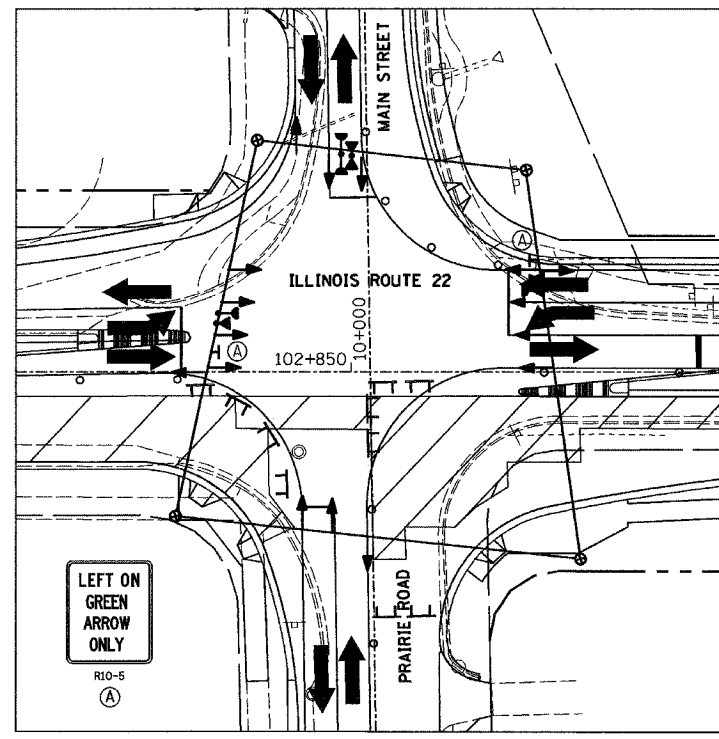
STAGE 1A



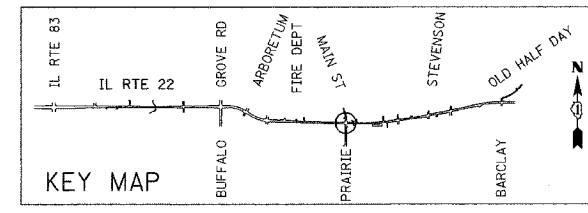
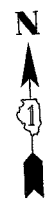
STAGE 3



ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMP. DATE		
	AREAS CHECKED		



STAGE 2



REVISIONS	
NAME	DATE

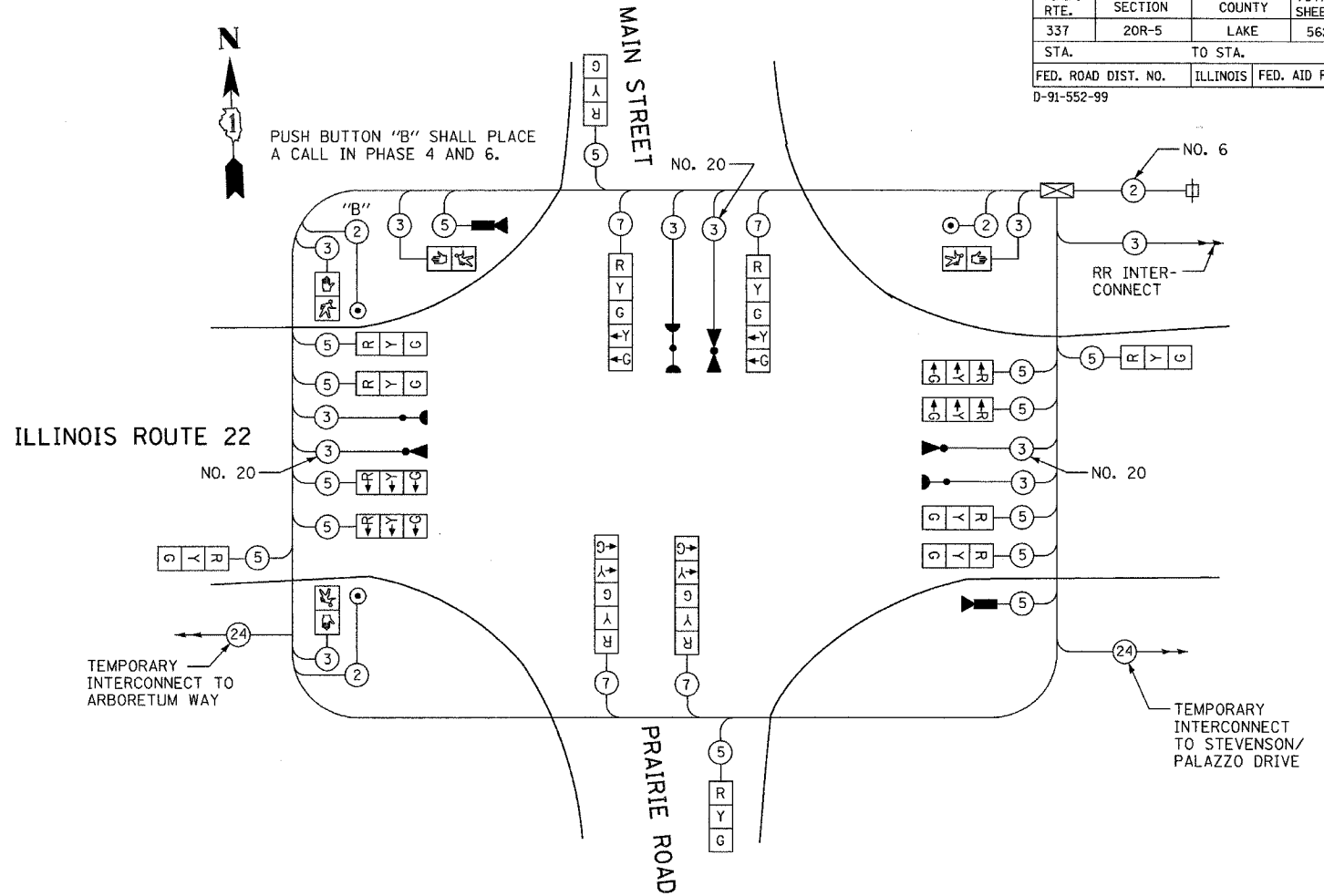
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 TEMPORARY TRAFFIC SIGNAL  
 INSTALLATION AND REMOVE EXISTING  
 TRAFFIC SIGNAL EQUIP. (STAGES 1A,2&3)  
 ILLINOIS ROUTE 22 AT PRAIRIE ROAD  
 SCALE: 1:400  
 DATE: 03-22-2004  
 DRAWN BY: AMB  
 DESIGNED BY: AMB  
 CHECKED BY: JPS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	356
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
D-91-552-99				60881

BY	DATE
ORIGINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE AREAS CHECKED	
NO.	

SEE TEMPORARY CHART SEQUENCE FOR PHASE DESIGNATION DIAGRAM AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE AND TEMPORARY RAILROAD PREEMPTION SEQUENCE

PHASES 3 AND 7 SHALL NOT BE ACTIVATED IN STAGES 1 AND 2 UNLESS DIRECTED BY THE IDOT AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER  
PHASES 3 AND 7 SHALL NOT BE ENERGIZED CONCURRENTLY IN STAGES 1 AND 2



**TEMPORARY SIGNALS CABLE PLAN**  
**STAGES 1, 1A, 2, & 3 CONSTRUCTION**  
NOT TO SCALE

BY	DATE
ORIGINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE AREAS CHECKED	
NO.	

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	16	135	17	0.50	1080
(YELLOW)	16	135	25	0.25	540
(GREEN)	16	135	15	0.25	540
ARROW	8	135	12	0.10	108
PED. SIGNAL	4	90	25	1.00	360
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	0	252		0.05	0
FLASHER				0.05	
ENERGY COSTS TO:		TOTAL =		2728.0	
ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAY/DISTRICT 1 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096					
ENERGY SUPPLY CONTACT:		DOT/IL PROSEN			
PHONE:		(847) 816-5529			
COMPANY:		COMED			

**TEMPORARY CABLE DIAGRAM LEGEND**

- [R] TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)
- [X] TEMPORARY CONTROLLER CABINET
- [⊕] TEMPORARY SERVICE INSTALLATION
- (5) INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- [V] EMERGENCY VEHICLE LIGHT DETECTOR
- [B] CONFIRMATION BEACON
- [□] VEHICLE DETECTOR, INDUCTION LOOP
- [○] PEDESTRIAN PUSHBUTTON DETECTOR
- [R] 12" (300mm) PEDESTRIAN SIGNAL SECTION
- [V] VIDEO DETECTION
- [M] MICROWAVE VEHICLE SENSOR

**LEFT ON GREEN ARROW ONLY**  
R10-5  
(A)

SEE TEMPORARY SIGNAL PLAN FOR LOCATIONS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
IL RTE 22 (FAP 337)  
IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
TEMPORARY CABLE PLAN AND  
TEMPORARY PHASE DESIGNATION  
DIAGRAM (STAGES 1,1A,2&3)  
ILLINOIS ROUTE 22 AT PRAIRIE ROAD  
SCALE: NONE  
DATE: 03-22-2004  
DRAWN BY: AMB  
DESIGNED BY: AMB  
CHECKED BY: JPS





### TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATIONS

DATE	BY
DATE	BY
DATE	BY

FINAL SURVEY PLOTTED  
NOTE BOOK TEMPLATE  
NO. \_\_\_\_\_ AREAS CHECKED

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		1		1		5		5		8		8			10			10			10			13		17		17		20			20			24			24		PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	CLEAR TO NORMAL SEQUENCE					
	1A	1B	1C	1D	1E	1F	1B	1C	1D	1E	1F	1G	1H	1I	1J	1K	1L	1M	1N	1O	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	1AA	1BB	1CC	1DD	1EE	2	3	4											
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1B	1C	1D	1E	2OR 4	2	1H	1I	3OR 4	1K	1L	2	1N	1O	3	1Q	1R	4	2, 3 OR 4	1U	2OR 3	4	1X	1Y	2OR 3	1AA	4	1CC	1DD	2OR 3	4													
IL. RTE. 22 NEAR RIGHT AND FAR RIGHT SPAN WIRE SIGNALS E/B	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	G	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R								
IL. RTE. 22 LEFT SPAN WIRE SIGNALS E/B	←G	←G	←Y	←R	←Y	←R	←R	←R	←R	←R	←R	←G	←G	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R							
IL. RTE. 22 NEAR RIGHT AND FAR RIGHT SPAN WIRE SIGNALS W/B	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	G	Y	R	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R					
IL. RTE. 22 LEFT SPAN WIRE SIGNALS W/B	←Y	←R	←G	←G	←Y	←R	←G	←G	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R					
PRAIRIE ROAD/MAIN STREET (WEST JUNCTION) NEAR RIGHT SPAN WIRE SIGNAL N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G			
PRAIRIE ROAD/MAIN STREET (WEST JUNCTION) FAR SPAN WIRE SIGNALS N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	
PRAIRIE ROAD/MAIN STREET (WEST JUNCTION) NEAR RIGHT SPAN WIRE SIGNAL S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R		
PRAIRIE ROAD/MAIN STREET (WEST JUNCTION) FAR SPAN WIRE SIGNALS S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
PEDESTRIAN SIGNALS CROSSING IL. RTE. 22 ON WEST SIDE OF PRAIRIE ROAD/MAIN STREET	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING PRAIRIE ROAD/MAIN STREET ON NORTH SIDE OF IL. RTE. 22	H	H	H	H	H	H	FL H	FL H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	

DATE	BY
DATE	BY
DATE	BY

ORIGINAL SURVEY PLOTTED  
NOTE BOOK TEMPLATE  
NO. \_\_\_\_\_ AREAS CHECKED

P = ILLUMINATED PERSON = WALK  
 FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK  
 H = ILLUMINATED SOLID HAND = DON'T WALK  
 ◆ = EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2 OR 3 IS TERMINATED.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 TEMPORARY EMERGENCY VEHICLE  
 PREEMPTION SEQUENCE OF OPERATIONS  
 ILLINOIS ROUTE 22 AT PRAIRIE ROAD  
 SCALE: NONE DRAWN BY: AMB  
 DATE: 03-22-2004 CHECKED BY: JPS

**TEMPORARY RAILROAD PREEMPTION SEQUENCE OF OPERATIONS**

														PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	PREEMPTOR NUMBER 2															
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	5	8	10	13	17	20	24																								
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER														2	3	4																
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1I	1J	1K	1L	1M	1N	10	1P	1Q	1R	1S	2	3	4	5	CLEAR TO NORMAL SEQUENCE								
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	2	1E	2	1G	2	2	1J	2	1L	2	1N	2	1P	2	2	1S	2	3	4	5										
IL. RTE. 22 NEAR RIGHT AND FAR RIGHT SPAN WIRE SIGNALS E/B	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	▲								
IL. RTE. 22 FAR LEFT SPAN WIRE SIGNALS E/B	←Y	←R	←R	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←Y	←R	←R	←R	←R	←R	←R	←R	←R	▲								
IL. RTE. 22 NEAR RIGHT AND FAR RIGHT SPAN WIRE SIGNALS W/B	R	R	G	R	R	G	G	R	R	R	R	R	R	R	R	R	G	R	R	G	Y	R	R	▲								
IL. RTE. 22 FAR LEFT SPAN WIRE SIGNALS W/B	←G	←G	←G	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←G	←R	←R	←G	←Y	←R	←R	▲								
PRAIRIE ROAD/MAIN STREET (WEST JUNCTION) NEAR RIGHT SPAN WIRE SIGNAL N/B	R	R	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	R	Y	R	R	R	R	G	▲								
PRAIRIE ROAD/MAIN STREET (WEST JUNCTION) FAR SPAN WIRE SIGNALS N/B	R	R	R	R	R	R	R	←Y	Y	R	R	R	Y	R	R	R	R	Y	R	R	R	R	G	▲								
PRAIRIE ROAD/MAIN STREET (WEST JUNCTION) NEAR RIGHT SPAN WIRE SIGNAL S/B	R	R	R	R	R	R	R	R	R	Y	R	Y	R	R	R	R	R	Y	R	R	R	R	G	▲								
PRAIRIE ROAD/MAIN STREET (WEST JUNCTION) FAR SPAN WIRE SIGNALS S/B	R	R	R	R	R	R	R	←Y	R	R	Y	Y	R	R	R	R	R	Y	R	R	R	R	G	▲								
PEDESTRIAN SIGNALS CROSSING IL RTE. 22 ON WEST WEST SIDE OF PRAIRIE ROAD/MAIN STREET	H	H	H	H	H	H	H	H	H	FL H	H	FL H	H	H	H	H	H	H	H	H	H	H	H	▲								
PEDESTRIAN SIGNALS CROSSING PRAIRIE ROAD/MAIN STREET ON NORTH SIDE OF IL RTE. 22	H	H	FL H	H	H	FL H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	▲								

HOLD

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK  
P = ILLUMINATED PERSON = WALK  
H = ILLUMINATED SOLID HAND = DON'T WALK

▲ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

BY	DATE
FINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE AREAS CHECKED	
NO.	

BY	DATE
ORIGINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE AREAS CHECKED	
NO.	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
IL RTE 22 (FAP 337)  
IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
TEMPORARY RAILROAD PREEMPTION SEQUENCE OF OPERATIONS  
ILLINOIS ROUTE 22 AT PRAIRIE ROAD  
SCALE: NONE      DRAWN BY: AMB  
DATE: 03-22-2004      CHECKED BY: JPS

P:\0032\0032\0032.dwg 03/22/04 09:29 AM













F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	365
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99		60881		

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 1 EACH CONTROLLER AND CABINET (COMPLETE)
- THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICKUP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: VILLAGE OF LINCOLNSHIRE

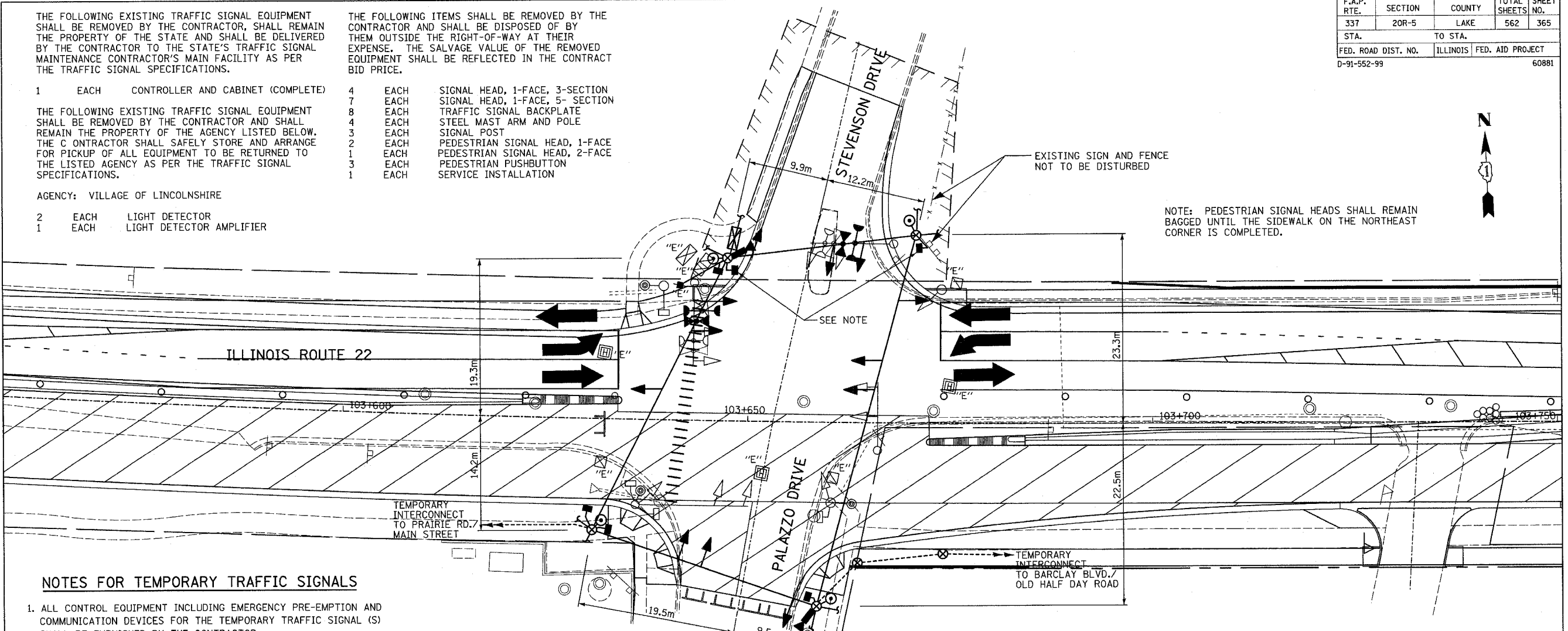
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 7 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 8 EACH TRAFFIC SIGNAL BACKPLATE
- 4 EACH STEEL MAST ARM AND POLE
- 3 EACH SIGNAL POST
- 2 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 1 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 3 EACH PEDESTRIAN PUSHBUTTON
- 1 EACH SERVICE INSTALLATION

BY	DATE
FINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

BY	DATE
ORIGINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	



NOTE: PEDESTRIAN SIGNAL HEADS SHALL REMAIN BAGGED UNTIL THE SIDEWALK ON THE NORTHEAST CORNER IS COMPLETED.

**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

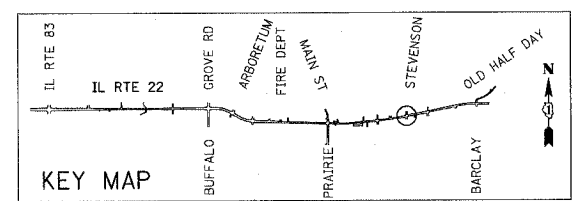
- ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL (S) SHALL BE FURNISHED BY THE CONTRACTOR.
- ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12" (300mm). HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
- ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

**EXISTING EQUIPMENT TO BE REMOVED**

- LEGEND**
- ◁ EXISTING SIGNAL HEAD TO BE REMOVED
  - "E" ■ EXISTING SERVICE INSTALLATION TO BE REMOVED
  - "E" ⊠ EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
  - "E" □ EXISTING HANDHOLE TO BE REMOVED
  - "E" ⊞ EXISTING HEAVY DUTY HANDHOLE TO BE REMOVED
  - ⊗ EXISTING EMERGENCY VEHICLE SYSTEM DETECTOR TO BE REMOVED
  - ⊕ EXISTING EMERGENCY VEHICLE SYSTEM BEACON TO BE REMOVED
  - EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
  - EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
  - ⊙ EXISTING PEDESTRIAN PUSHBUTTON TO BE REMOVED
  - EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED
  - EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED

**TEMPORARY TRAFFIC SIGNAL LEGEND**

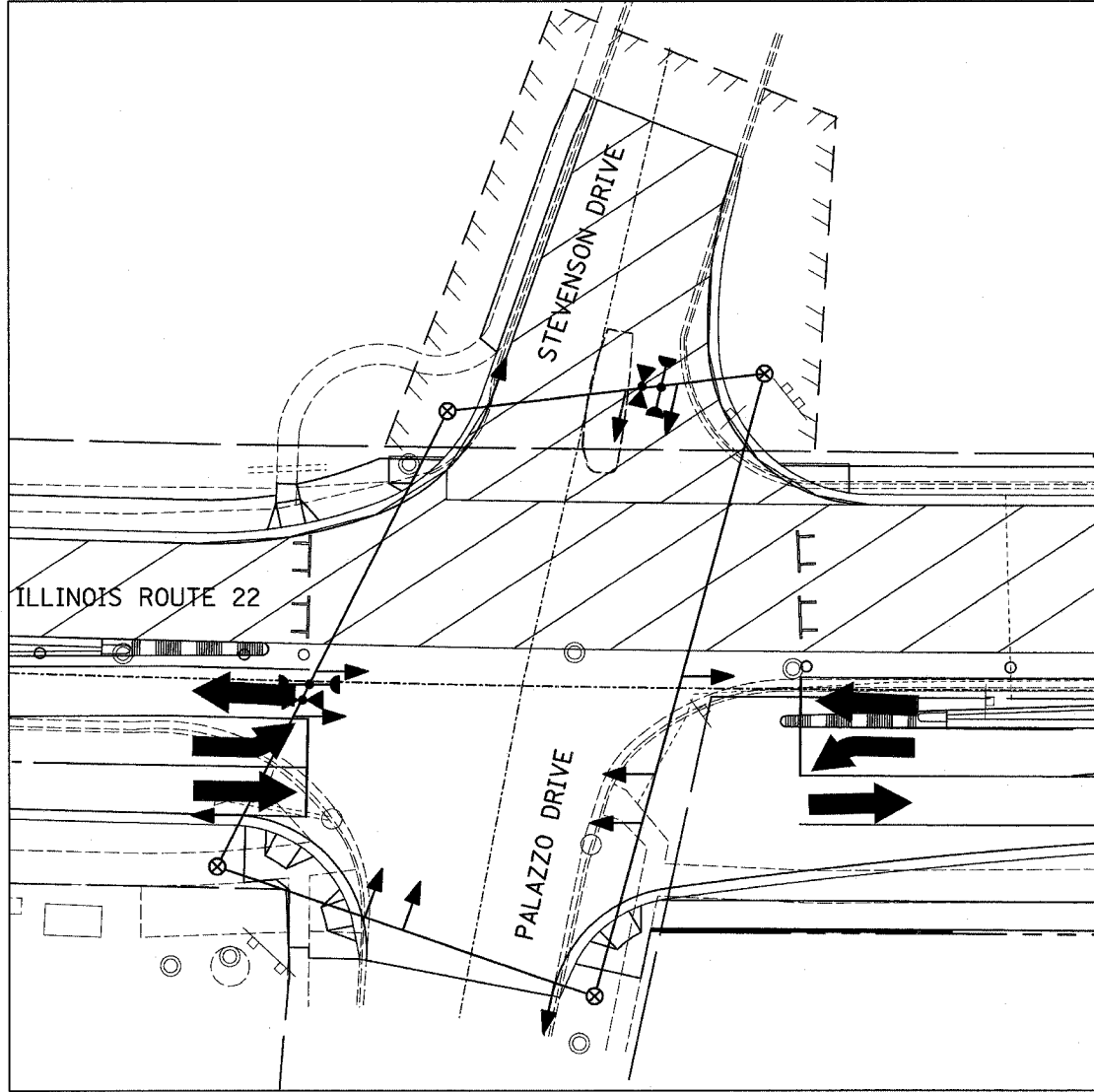
- ◁ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- ◁ TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- ⊗ TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM
- ⊠ TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- ⊕ TEMPORARY SERVICE INSTALLATION
- TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- ⊗ MICROWAVE VEHICLE SENSOR
- ⊙ PEDESTRIAN PUSHBUTTON DETECTOR
- ⊕ EMERGENCY VEHICLE LIGHT DETECTOR
- ⊕ CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- CT COMMON TRENCH
- UD UNIT DUCT
- G.S. CONDUIT IN TRENCH OR PUSHED
- HANDHOLE
- ⊞ HEAVY DUTY HANDHOLE



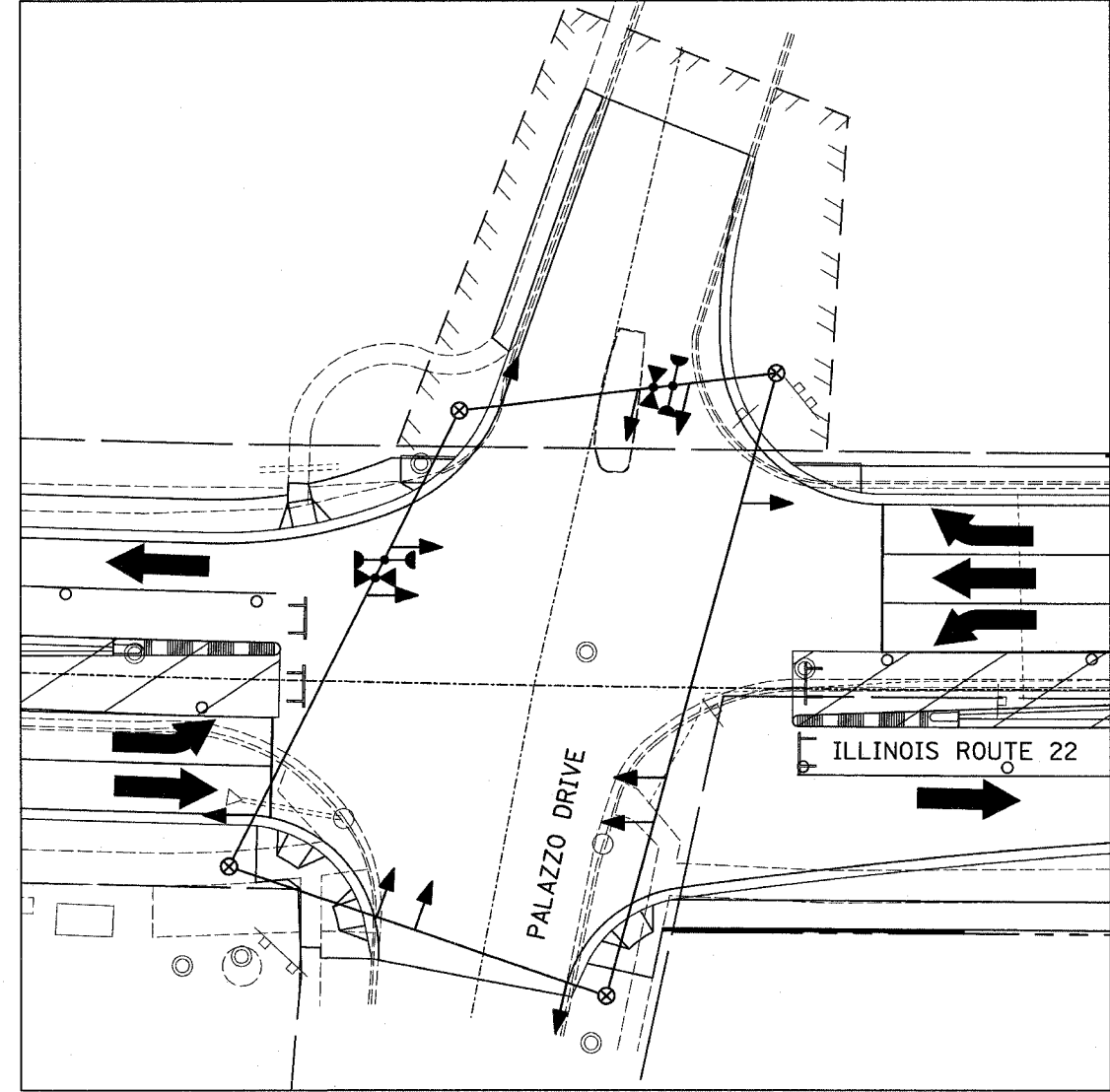
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 TEMPORARY TRAFFIC SIGNAL  
 INSTALLATION AND REMOVE EXISTING  
 TRAFFIC SIGNAL EQUIPMENT (STAGE 1)  
 ILLINOIS ROUTE 22 AT STEVENSON DRIVE  
 SCALE: 1:250  
 DATE: 03-22-2004  
 DRAWN BY: AMB  
 DESIGNED BY: AMB  
 CHECKED BY: JPS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	366
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
D-91-552-99		60881		



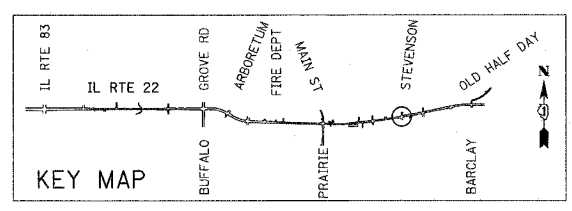
STAGE 2



STAGE 3

FINAL SURVEY	BY	DATE
SURVEY PLOTTED		
NOTE BOOK		
NO.		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
SURVEY PLOTTED		
NOTE BOOK		
NO.		
AREAS CHECKED		



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION IL RTE 22 (FAP 337) IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE) TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT (STAGES 2&3) ILLINOIS ROUTE 22 AT STEVENSON DRIVE
NAME	DATE	
		SCALE: 1:250
		DATE: 03-22-2004
		DRAWN BY: AMB
		DESIGNED BY: AMB
		CHECKED BY: JPS

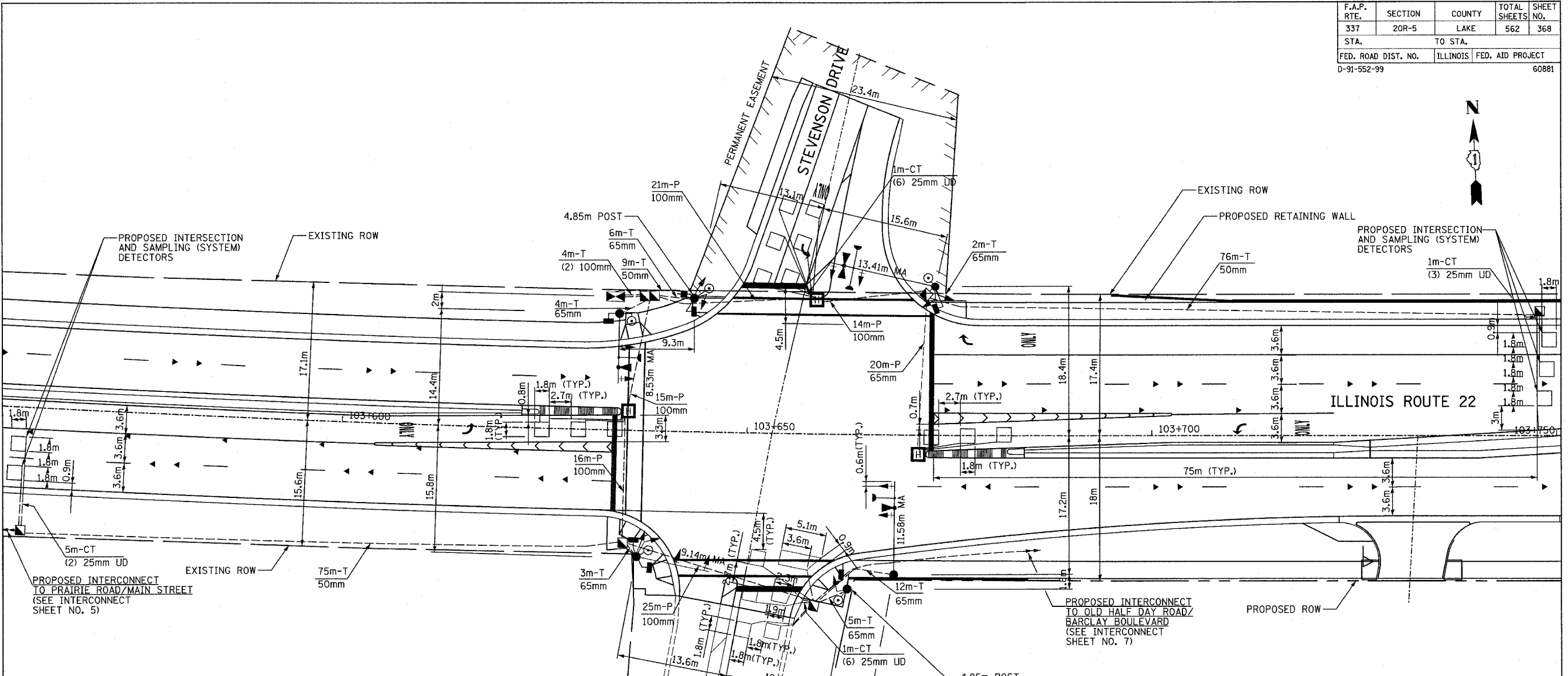


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	368
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
D-91-552-99		60881		



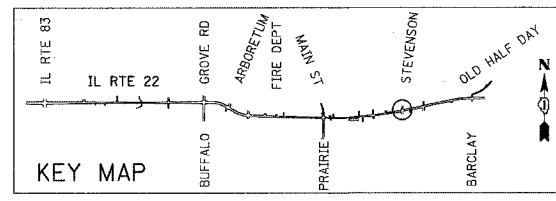
BY	DATE
FINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

BY	DATE
ORIGINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	



PROPOSED		EXISTING		PROPOSED		EXISTING	
	CONTROLLER		CONTROLLER		DETECTOR LOOP		DETECTOR LOOP
	SERVICE INSTALLATION		SERVICE INSTALLATION		CAST IRON JUNCTION BOX		CAST IRON JUNCTION BOX
	SIGNAL HEAD		SIGNAL HEAD		EMERGENCY VEHICLE SYSTEM DETECTOR		EMERGENCY VEHICLE SYSTEM DETECTOR
	SIGNAL HEAD WITH BACKPLATE		SIGNAL HEAD WITH BACKPLATE		CONFIRMATION BEACON		CONFIRMATION BEACON
	SIGNAL HEAD, PEDESTRIAN		SIGNAL HEAD, PEDESTRIAN		SIGNAL HEAD OPTICALLY PROGRAMMED		SIGNAL HEAD OPTICALLY PROGRAMMED
	SIGNAL POST		SIGNAL POST		CONDUIT SPLICE		CONDUIT SPLICE
	MAST ARM ASSEMBLY AND POLE, STEEL		MAST ARM ASSEMBLY AND POLE, STEEL		WOOD POLE		WOOD POLE
	MAST ARM ASSEMBLY AND POLE, ALUMINUM		MAST ARM ASSEMBLY AND POLE, ALUMINUM		RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYF		RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYF
	COMMON TRENCH		COMMON TRENCH		VEHICLE DETECTOR, NON COMPENSATED, MAGNETIC		VEHICLE DETECTOR, NON COMPENSATED, MAGNETIC
	UNIT DUCT		UNIT DUCT		RAILROAD CONTROL CABIN		RAILROAD CONTROL CABIN
	HANDHOLE		HANDHOLE		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
	HEAVY DUTY HANDHOLE		HEAVY DUTY HANDHOLE		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
	DOUBLE HANDHOLE		DOUBLE HANDHOLE		TELEPHONE		TELEPHONE
	G.S. CONDUIT IN TRENCH OR PUSHED		G.S. CONDUIT IN TRENCH OR PUSHED				
	PEDESTRIAN PUSH-BUTTON DETECTOR		PEDESTRIAN PUSH-BUTTON DETECTOR				

THE TRAFFIC SIGNAL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

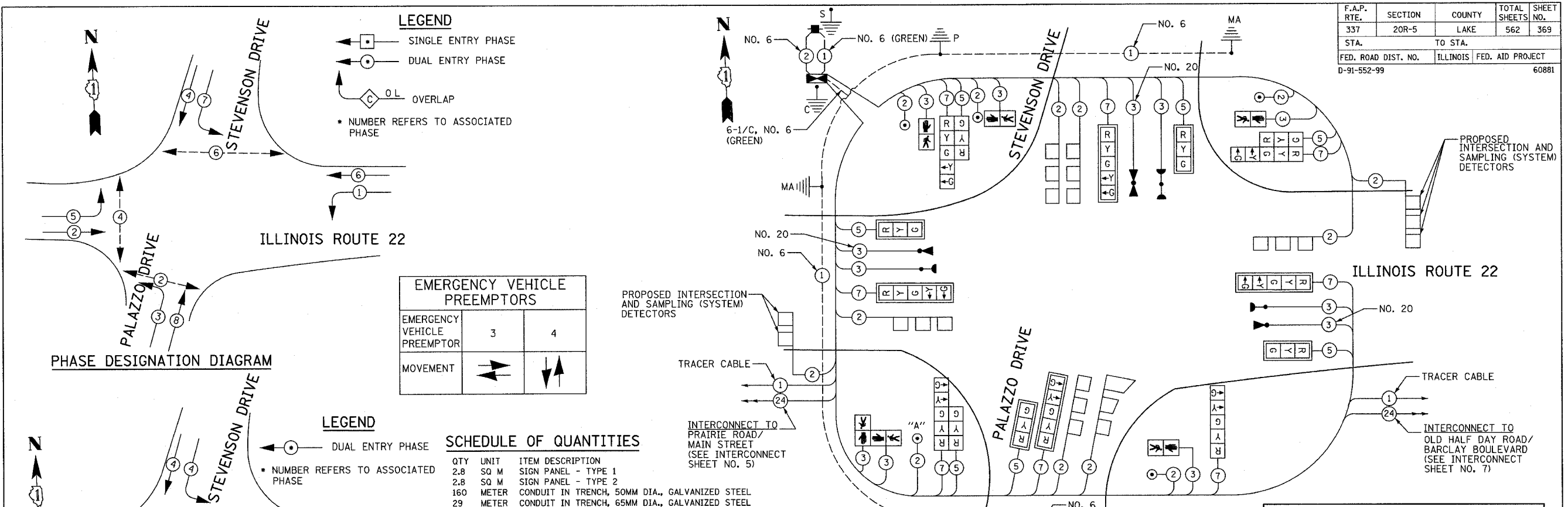


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 TRAFFIC SIGNAL INSTALLATION PLAN  
 ILLINOIS ROUTE 22 AT STEVENSON DRIVE

SCALE: 1:250  
 DATE: 03-22-2004  
 DRAWN BY: AMB  
 DESIGNED BY: AMB  
 CHECKED BY: JPS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	369
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99		60881		



EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	→	↕

**SCHEDULE OF QUANTITIES**

QTY	UNIT	ITEM DESCRIPTION
2.8	SO M	SIGN PANEL - TYPE 1
2.8	SO M	SIGN PANEL - TYPE 2
160	METER	CONDUIT IN TRENCH, 50MM DIA., GALVANIZED STEEL
29	METER	CONDUIT IN TRENCH, 65MM DIA., GALVANIZED STEEL
8	METER	CONDUIT IN TRENCH, 100MM DIA., GALVANIZED STEEL
91	METER	CONDUIT PUSHED, 100MM DIA., GALVANIZED STEEL
5	EACH	HANDHOLE
3	EACH	HEAVY-DUTY HANDHOLE
1	EACH	DOUBLE HANDHOLE
197	METER	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	FULL-ACTUATED CONTROLLER IN TYPE IV CABINET, SPECIAL
1	EACH	TRANSCEIVER - FIBER OPTIC
214	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 2C
480	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 3C
379	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 5C
474	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 7C
532	METER	ELECTRIC CABLE IN CONDUIT, LEAD IN, NO.14, 1 PAIR
17	METER	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6, 2C
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 4.85 METER
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 8.53 METER
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 9.14 METER
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 11.58 METER
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 13.41 METER
2.4	METER	CONCRETE FOUNDATION, TYPE A
1.2	METER	CONCRETE FOUNDATION, TYPE D
11.2	METER	CONCRETE FOUNDATION, TYPE E, 750MM DIAMETER
4	METER	CONCRETE FOUNDATION, TYPE E, 900MM DIAMETER
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED
11	EACH	INDUCTIVE LOOP DETECTOR
3	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
5	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	SERVICE INSTALLATION, POLE MOUNT
287	METER	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1/C (GREEN)
200	METER	ELECTRIC CABLE IN CONDUIT, NO. 20, 3/C, TWISTED, SHIELDED
4	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
3	EACH	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 1-3 SECTION, 1-5-SECTION, BRACKET MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED
1	EACH	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, BRACKET MOUNTED
302	METER	PREFORMED DETECTOR LOOP
7	EACH	REMOVE EXISTING HANDHOLE
8	EACH	REMOVE EXISTING CONCRETE FOUNDATION

\*NOTE: 100% OF COST TO THE LINCOLNSHIRE RIVERWOODS FIRE PROTECTION DISTRICT.

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20' + L-2' = (6mH-0.6m)
E - MAST ARM POLE		SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

**CABLE PLAN**

NOT TO SCALE

EXISTING	PROPOSED	DESCRIPTION
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		VEHICLE DETECTOR, INDUCTION LOOP
		2 DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
		GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
		GROUND ROD AT POST OR MAST ARM POLE
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION
		GROUND CABLE IN CONDUIT, NO.6 SOLID COPPER (GREEN)
		FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 2-MM12F & SM12F

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

DATE	
BY	
FINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

TYPE	NO. OF LAMPS	WATTAGE INCAND.	LED	% OPERATIONS	TOTAL WATTAGE
SIGNAL (RED)	15	135	17	0.50	127.5
(YELLOW)	15	135	25	0.25	93.75
(GREEN)	15	135	15	0.25	56.25
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	6	90	25	1.00	150
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		252		0.05	
FLASHER				0.05	

ENERGY COSTS TO: TOTAL = 546.7

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAY/DISTRICT 1  
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: DOTTI PROSEN  
PHONE: (847) 816-5529  
COMPANY: COMED

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
IL RTE 22 TO US 45 / IL 21 (MILWAUKEE AVE)  
SCHEDULE OF QUANTITIES  
CABLE PLAN AND PHASE  
DESIGNATION DIAGRAM  
ILLINOIS ROUTE 22 AT STEVENSON DRIVE  
SCALE: NONE  
DATE: 03-22-2004  
DRAWN BY: AMB  
DESIGNED BY: AMB  
CHECKED BY: JPS

**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL (S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12" (300mm). HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	370
STA.		TO STA.		
		60889		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
0-91-552-99				

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

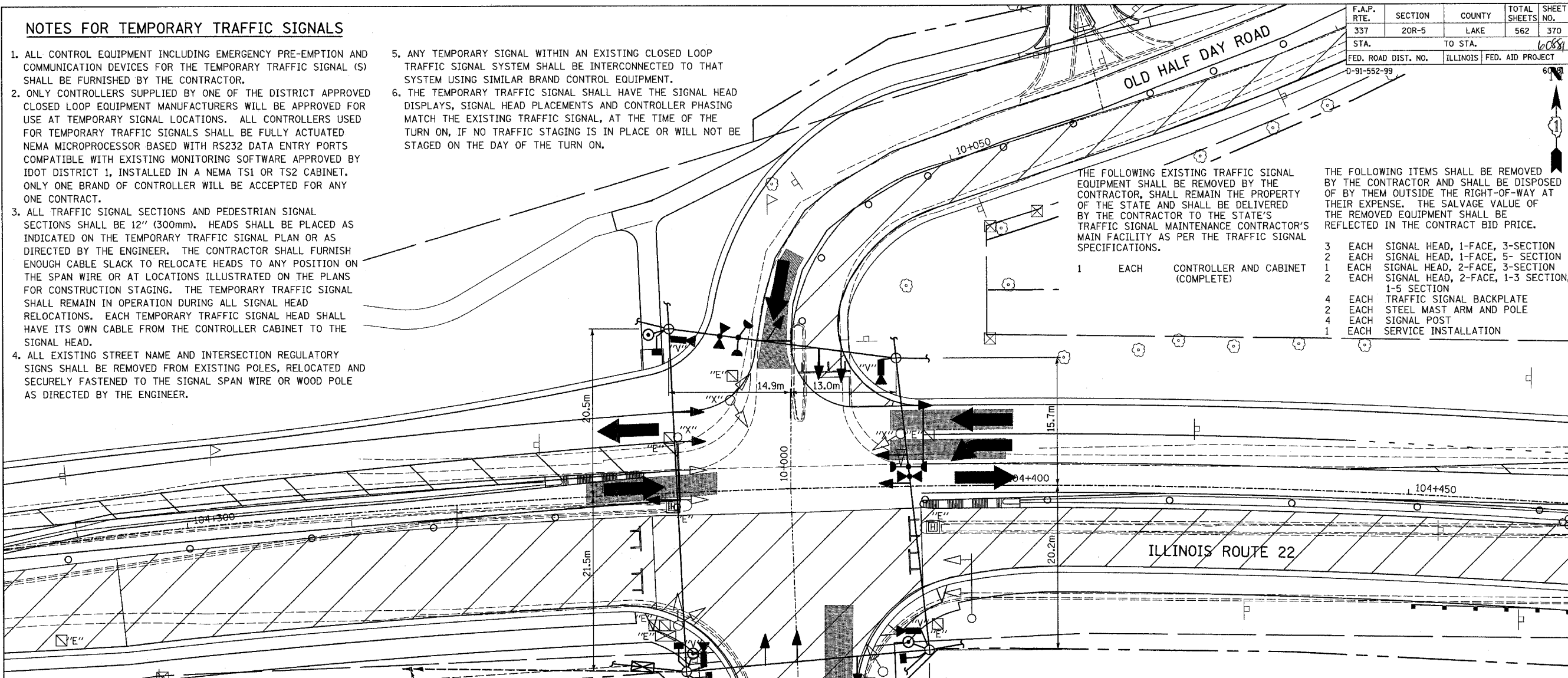
- 1 EACH CONTROLLER AND CABINET (COMPLETE)

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 3 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 2 EACH SIGNAL HEAD, 1-FACE, 5- SECTION
- 1 EACH SIGNAL HEAD, 2-FACE, 3-SECTION
- 2 EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
- 4 EACH TRAFFIC SIGNAL BACKPLATE
- 2 EACH STEEL MAST ARM AND POLE
- 4 EACH SIGNAL POST
- 1 EACH SERVICE INSTALLATION

DATE	BY	NO.
FINAL SURVEY PLOTTED		
NOTE BOOK TEMPLATE		
AREAS CHECKED		

DATE	BY	NO.
ORIGINAL SURVEY PLOTTED		
NOTE BOOK TEMPLATE		
AREAS CHECKED		

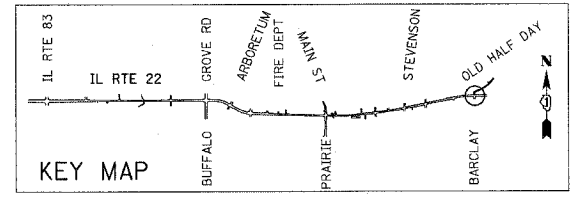


**EXISTING EQUIPMENT TO BE REMOVED LEGEND**

- EXISTING SIGNAL HEAD TO BE REMOVED
- EXISTING SERVICE INSTALLATION TO BE REMOVED
- EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED
- EXISTING HANDHOLE TO BE REMOVED
- EXISTING HEAVY DUTY HANDHOLE TO BE REMOVED
- EXISTING EMERGENCY VEHICLE SYSTEM DETECTOR TO BE REMOVED
- EXISTING EMERGENCY VEHICLE SYSTEM BEACON TO BE REMOVED
- EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED
- EXISTING PEDESTRIAN SIGNAL HEAD TO BE REMOVED
- EXISTING PEDESTRIAN PUSHBUTTON TO BE REMOVED
- EXISTING STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED
- EXISTING ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED

**TEMPORARY TRAFFIC SIGNAL LEGEND**

- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE
- TEMPORARY SERVICE INSTALLATION
- TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- MICROWAVE VEHICLE SENSOR
- VIDEO DETECTION
- PEDESTRIAN PUSHBUTTON DETECTOR
- EMERGENCY VEHICLE LIGHT DETECTOR
- CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- COMMON TRENCH
- UNIT DUCT
- G.S. CONDUIT IN TRENCH OR PUSHED
- HANDHOLE
- HEAVY DUTY HANDHOLE
- AREAS OF VIDEO DETECTION ZONES



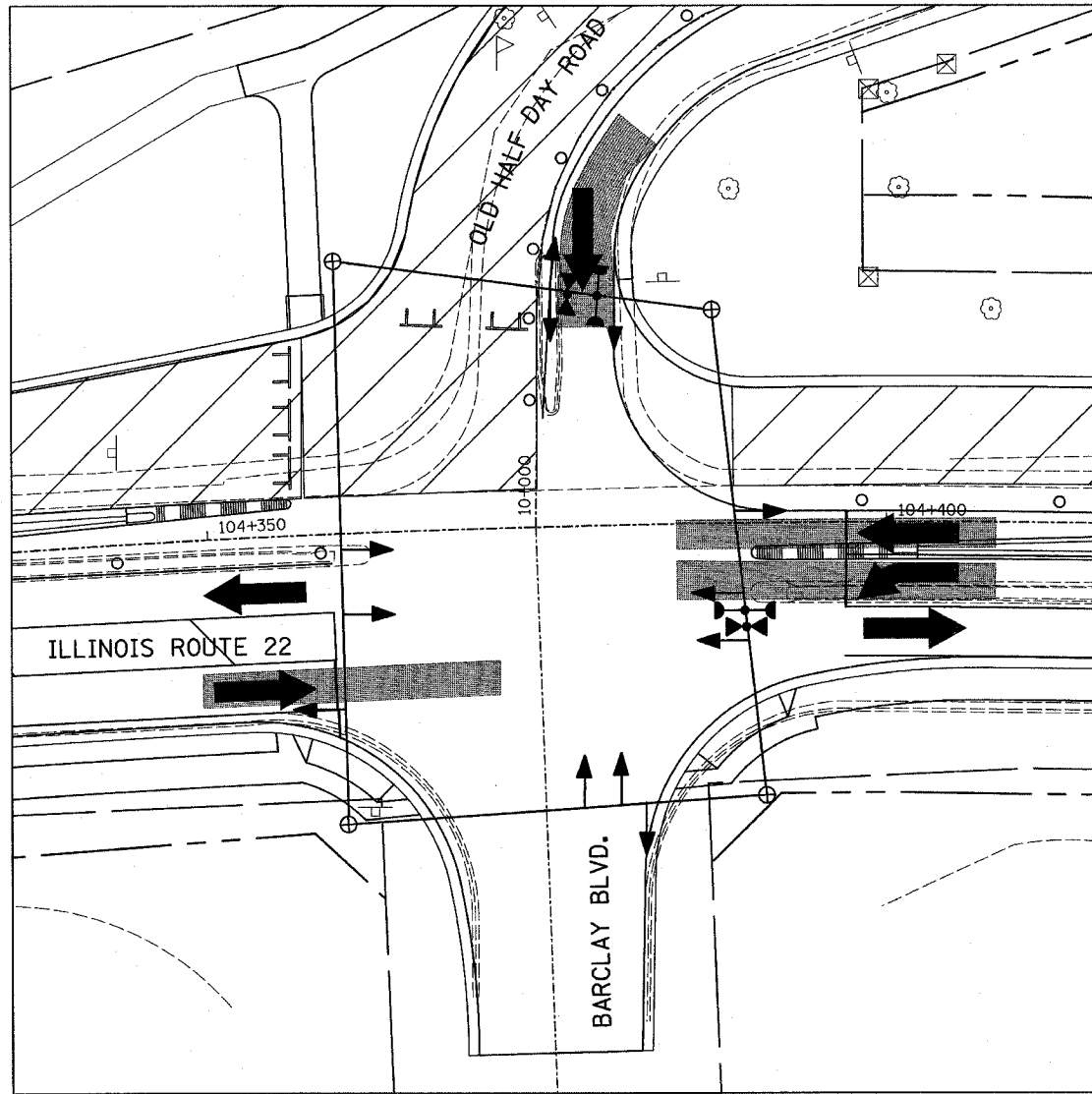
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 TEMPORARY TRAFFIC SIGNAL  
 INSTALLATION AND REMOVE EXISTING  
 TRAFFIC SIGNAL EQUIPMENT (STAGE 1)  
 IL RTE 22 AT BARCLAY BLVD./OLD HALF DAY RD.  
 SCALE: 1:250  
 DATE: 03-22-2004  
 DRAWN BY: AMB  
 DESIGNED BY: AMB  
 CHECKED BY: JPS

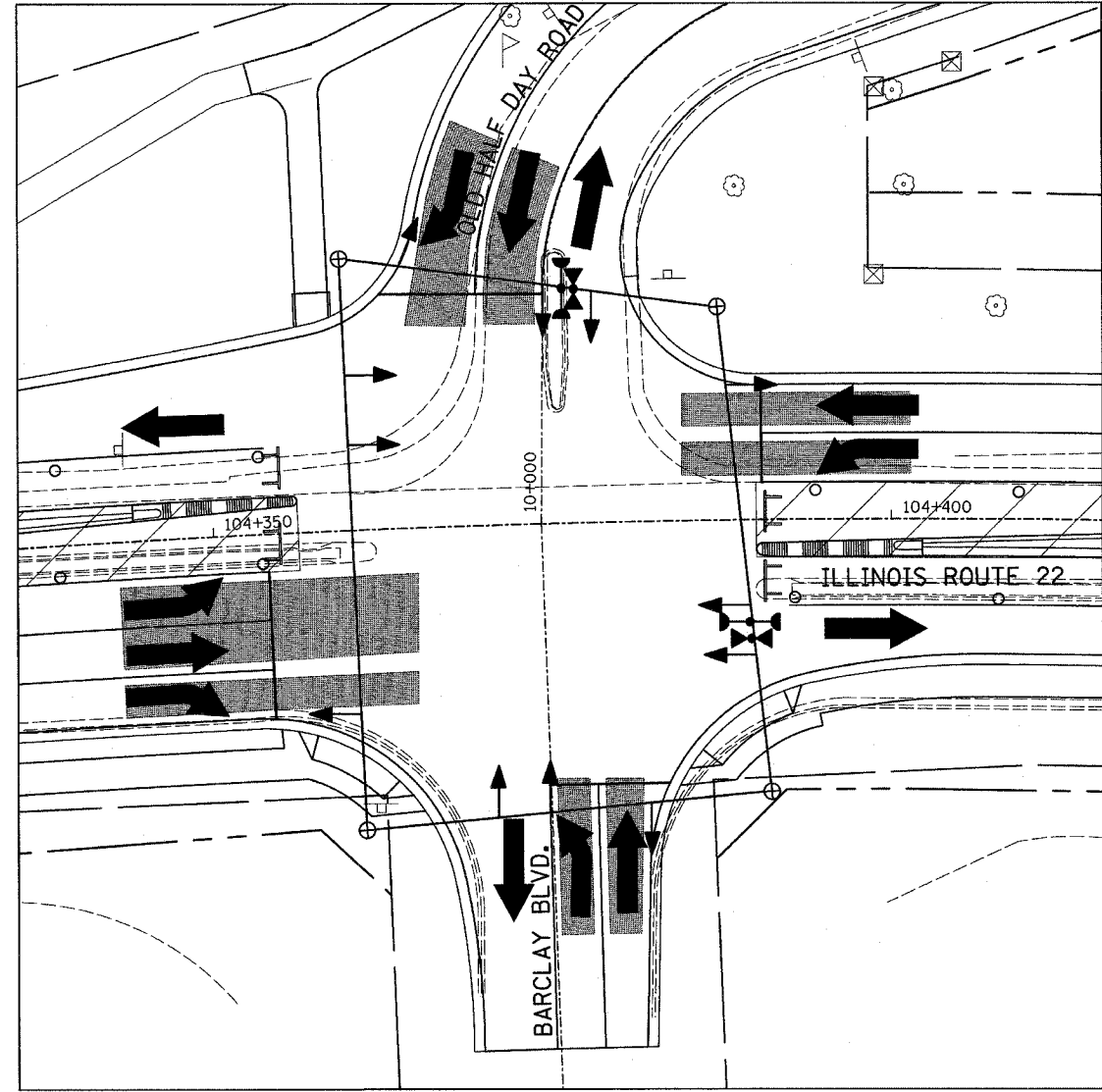
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	371
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
D-91-552-99			60881	

FINAL SURVEY PLOTTED	BY	DATE
NOTE BOOK TEMPLATE		
AREAS CHECKED		
NO.		

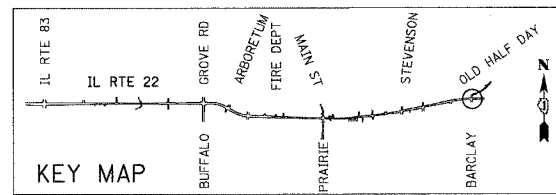
ORIGINAL SURVEY PLOTTED	BY	DATE
NOTE BOOK TEMPLATE		
AREAS CHECKED		
NO.		



STAGE 2



STAGE 3



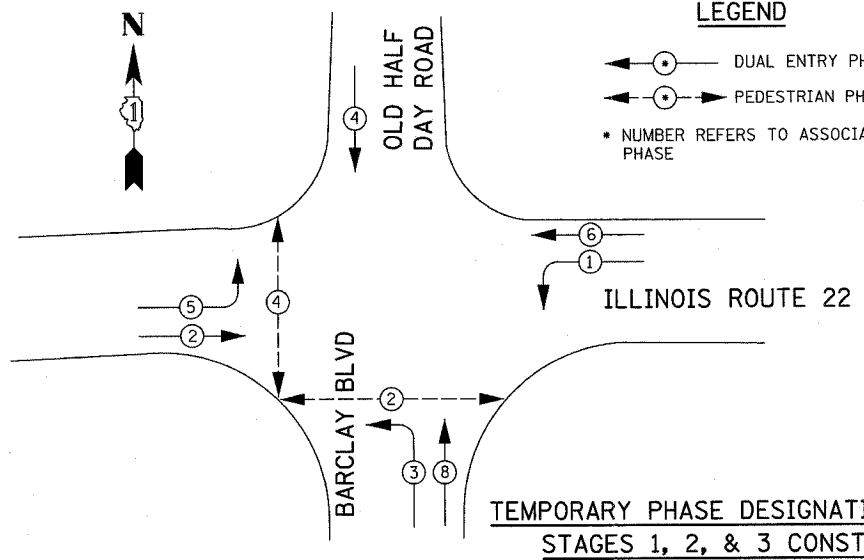
KEY MAP

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 TEMPORARY TRAFFIC SIGNAL  
 INSTALLATION AND REMOVE EXISTING  
 TRAFFIC SIGNAL EQUIPMENT (STAGES 2&3)  
 IL RTE 22 AT BARCLAY BLVD./OLD HALF DAY RD.  
 SCALE: 1:250  
 DATE: 03-22-2004  
 DRAWN BY: AMB  
 DESIGNED BY: AMB  
 CHECKED BY: JPS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	372
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
D-91-552-99				60881

**CONTROLLER SEQUENCE**

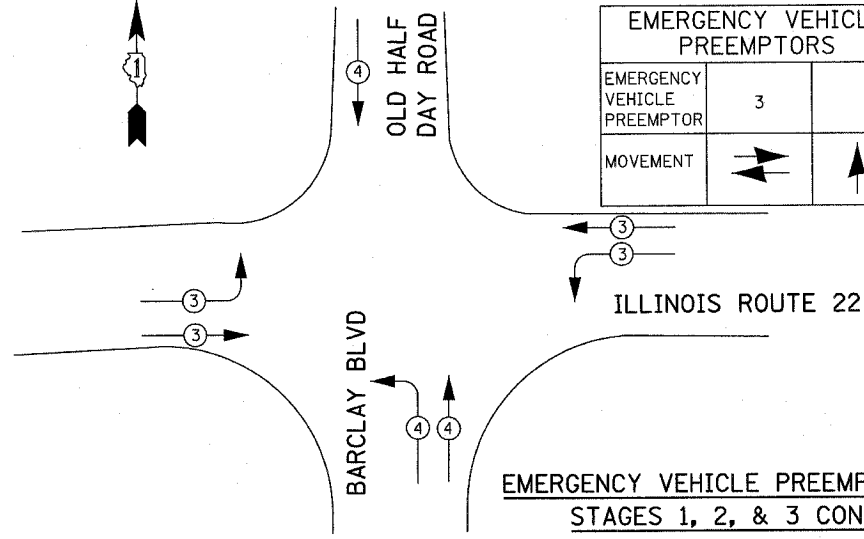


**LEGEND**

- — DUAL ENTRY PHASE
- — PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

**TEMPORARY PHASE DESIGNATION DIAGRAM STAGES 1, 2, & 3 CONSTRUCTION**

**CONTROLLER SEQUENCE**



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	→	←

**EMERGENCY VEHICLE PREEMPTION SEQUENCE STAGES 1, 2, & 3 CONSTRUCTION**

I.D.O.T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	12	135	17	0.50	810
(YELLOW)	12	135	25	0.25	405
(GREEN)	12	135	15	0.25	405
ARROW	6	135	12	0.10	81
PED. SIGNAL	4	90	25	1.00	360
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		252		0.05	
FLASHER				0.05	

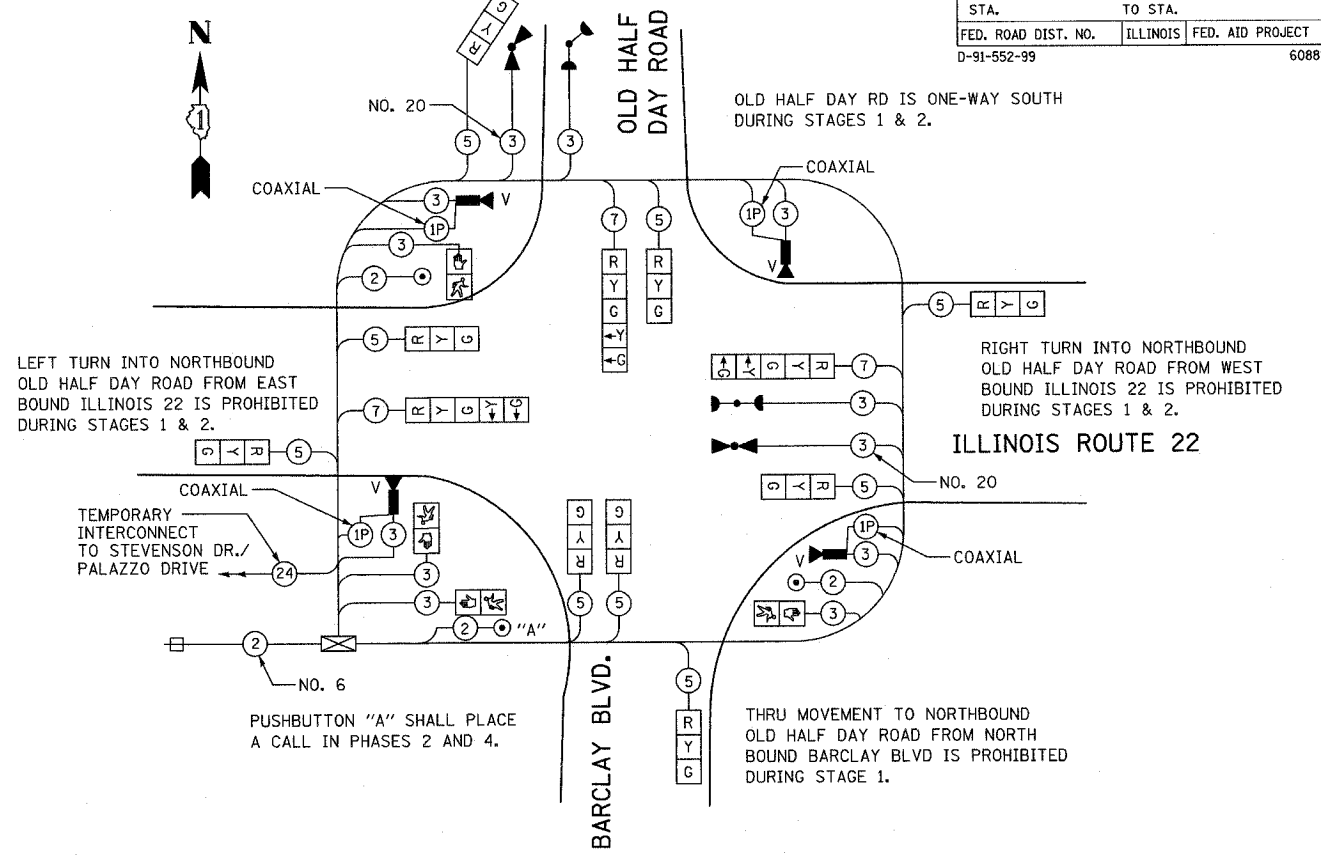
ENERGY COSTS TO: TOTAL = 2161

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAY/DISTRICT 1  
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY: CONTACT: DOTTI PROSEN  
PHONE: (847) 816-5529  
COMPANY: COMED

DATE	
BY	
FINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	



**TEMPORARY SIGNALS CABLE PLAN STAGES 1, 2, & 3 CONSTRUCTION**  
NOT TO SCALE

**TEMPORARY CABLE DIAGRAM LEGEND**

- R TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)
- ⊠ TEMPORARY CONTROLLER CABINET
- ⊞ TEMPORARY SERVICE INSTALLATION
- ⑤ INDICATES NUMBER OF CONDUCTORS IN CABLE. ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.
- ▲ EMERGENCY VEHICLE LIGHT DETECTOR
- ▲ CONFIRMATION BEACON
- VEHICLE DETECTOR, INDUCTION LOOP
- PEDESTRIAN PUSHBUTTON DETECTOR
- ⊞ 12" (300mm) PEDESTRIAN SIGNAL SECTION
- V VIDEO DETECTION
- ▲ MICROWAVE VEHICLE SENSOR

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
IL RTE 22 (FAP 337)  
IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
TEMPORARY CABLE PLAN AND  
TEMPORARY PHASE  
DESIGNATION DIAGRAM (STAGES 1,2&3)  
IL RTE 22 AT BARCLAY BLVD./OLD HALF DAY RD.  
SCALE: NONE  
DATE: 03-22-2004  
DRAWN BY: AMB  
DESIGNED BY: AMB  
CHECKED BY: JPS



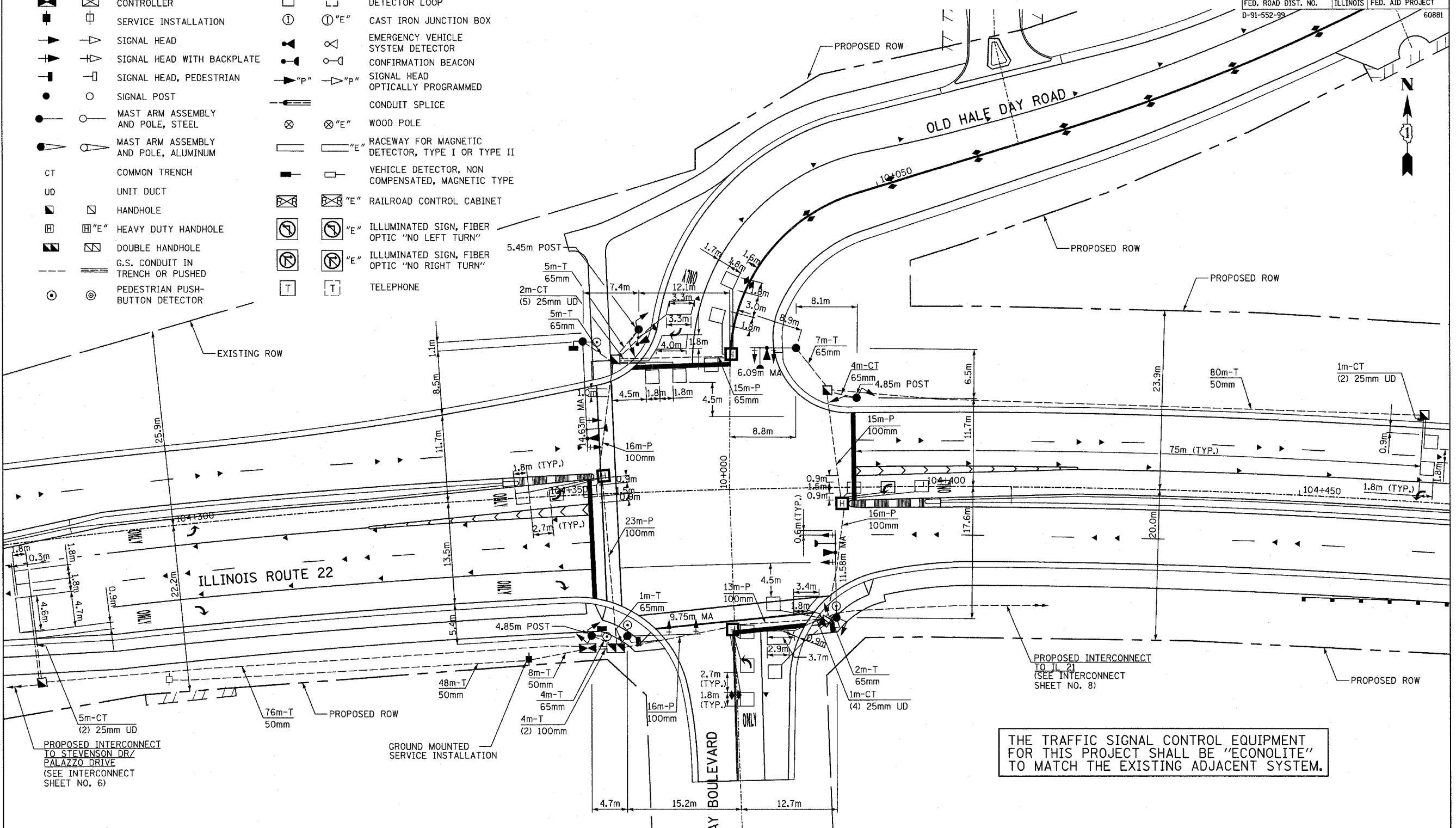
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	373
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99			60881	

**TRAFFIC SIGNAL LEGEND**

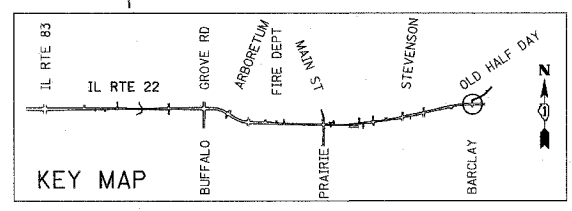
PROPOSED	EXISTING	PROPOSED	EXISTING	
				DETECTOR LOOP
				CAST IRON JUNCTION BOX
				EMERGENCY VEHICLE SYSTEM DETECTOR
				CONFIRMATION BEACON
				SIGNAL HEAD OPTICALLY PROGRAMMED
				CONDUIT SPLICE
				WOOD POLE
				RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II
CT	COMMON TRENCH			VEHICLE DETECTOR, NON COMPENSATED, MAGNETIC TYPE
UD	UNIT DUCT			RAILROAD CONTROL CABINET
				ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
				ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
				TELEPHONE

BY	DATE
FINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

BY	DATE
ORIGINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 TRAFFIC SIGNAL INSTALLATION PLAN  
 ILLINOIS ROUTE 22 AT BARCLAY BOULEVARD/  
 OLD HALF DAY ROAD

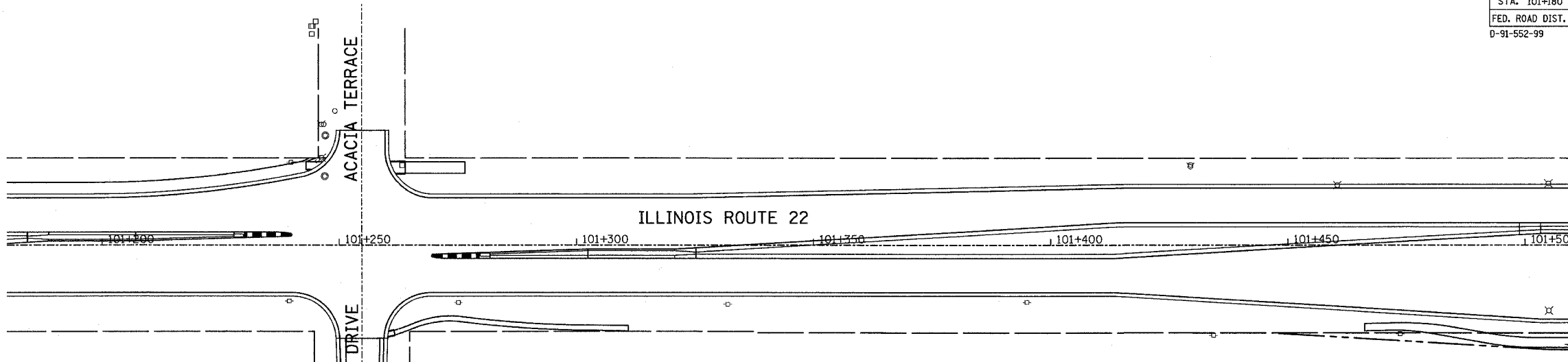
SCALE: 1:250  
 DATE: 03-22-2004  
 DRAWN BY: AMB  
 DESIGNED BY: AMB  
 CHECKED BY: JPS



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	375
STA. 101+180		TO STA. 101+800		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99		60881		



MATCHLINE STA. 101+510



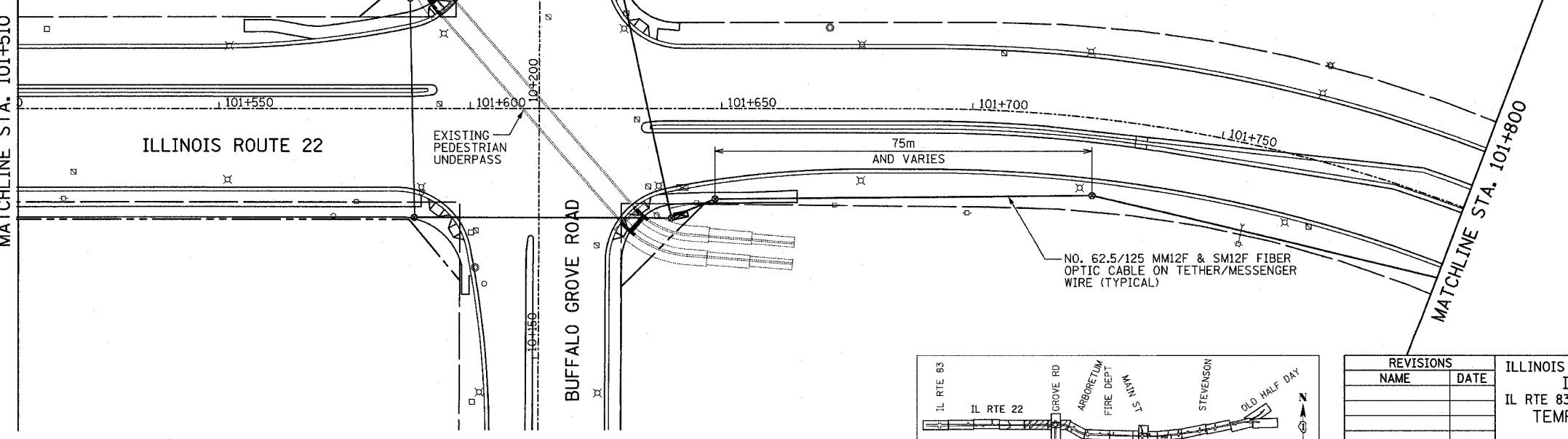
**INTERCONNECT PLAN LEGEND**

PROPOSED	EXISTING	DESCRIPTION
		CONTROLLER
		HANDHOLE
		DOUBLE HANDHOLE
		HEAVY DUTY HANDHOLE
		G.S. CONDUIT IN TRENCH(T) OR PUSHED (P)
		DETECTOR LOOP
UD		UNIT DUCT
S		IS SYSTEM
IP		I INTERSECTION

**TEMPORARY TRAFFIC SIGNAL LEGEND**

	TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION		PEDESTRIAN PUSHBUTTON DETECTOR
	TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION		EMERGENCY VEHICLE LIGHT DETECTOR
	TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM		CONFIRMATION BEACON
	TEMPORARY CONTROLLER CABINET		VEHICLE DETECTOR, INDUCTION LOOP
	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	CT	COMMON TRENCH
	TEMPORARY SERVICE INSTALLATION	UD	UNIT DUCT
	TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED		G.S. CONDUIT IN TRENCH OR PUSHED
			HANDHOLE
			HEAVY DUTY HANDHOLE
			MICROWAVE VEHICLE SENSOR

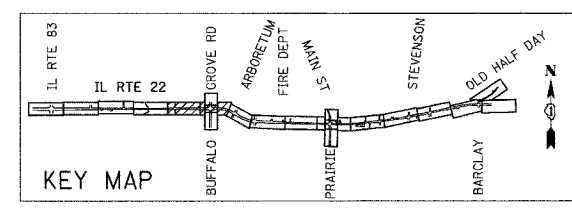
MATCHLINE STA. 101+510



MATCHLINE STA. 101+800

FINAL SURVEYED	BY	DATE
SURVEY PLOTTED		
NOTE BOOK TEMPLATE		
AREAS CHECKED		
NO.		

ORIGINAL SURVEYED	BY	DATE
SURVEY PLOTTED		
NOTE BOOK TEMPLATE		
AREAS CHECKED		
NO.		



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 TEMPORARY TRAFFIC SIGNAL INTERCONNECTION  
 STA. 101+180 TO STA. 101+800  
 SHEET 1 OF 5  
 SCALE: 1:500  
 DATE: 03-22-2004  
 DRAWN BY: AMB  
 DESIGNED BY: AMB  
 CHECKED BY: JPS



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	377
STA. 102+395		TO STA. 103+060		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99		60881		

FINAL SURVEY	BY	DATE
SURVEY PLOTTED		
NOTE BOOK TEMPLATE		
AREAS CHECKED		
NO.		

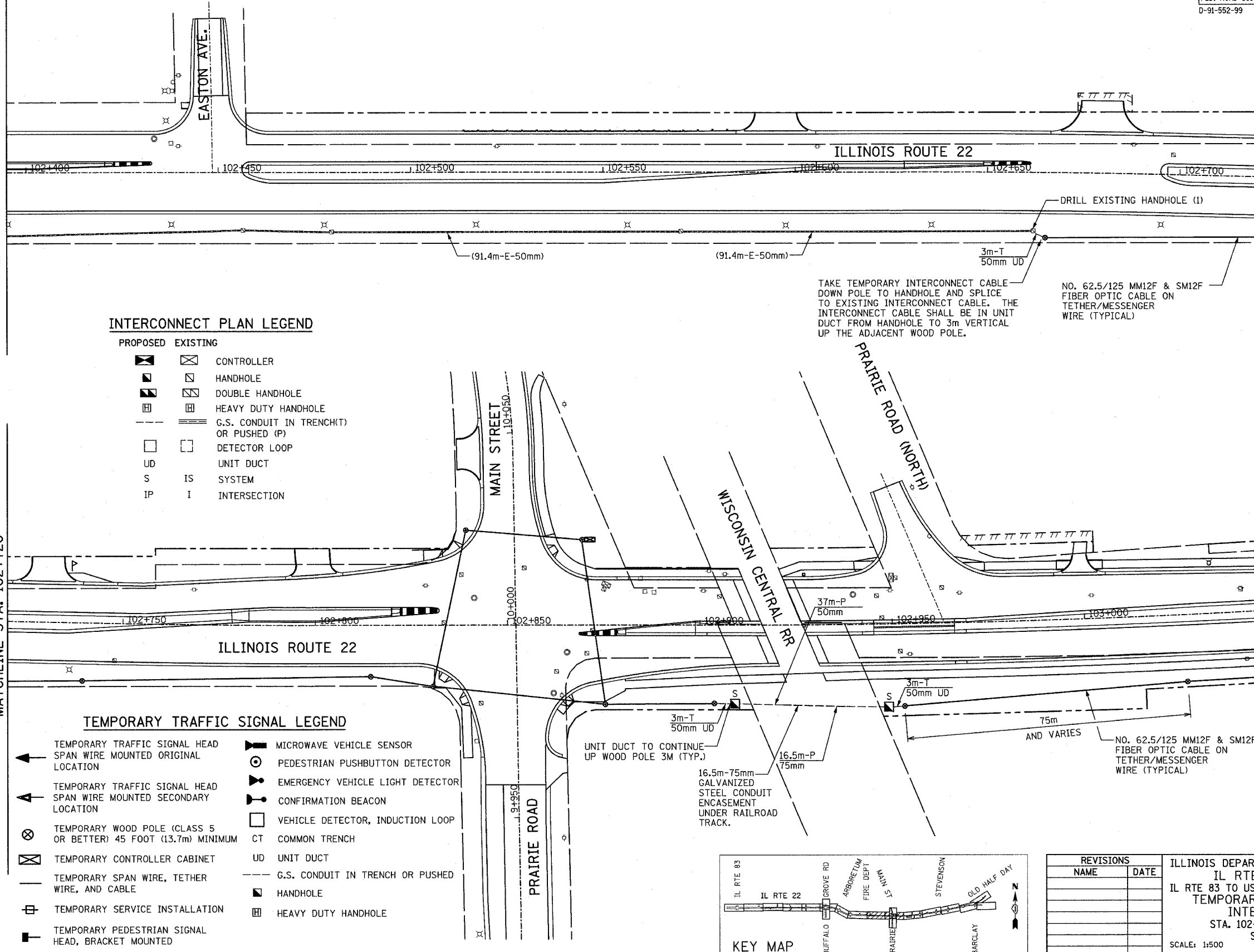
ORIGINAL SURVEY	BY	DATE
SURVEY PLOTTED		
NOTE BOOK TEMPLATE		
AREAS CHECKED		
NO.		

MATCHLINE STA. 102+395

MATCHLINE STA. 102+720

MATCHLINE STA. 102+720

MATCHLINE STA. 103+060



**INTERCONNECT PLAN LEGEND**

- |                 |                 |   |
|-----------------|-----------------|---|
| <b>PROPOSED</b> | <b>EXISTING</b> |   |
| ☒               | ☒               | CONTROLLER                              |
| ◼               | ◼               | HANDHOLE                                |
| ◼               | ◼               | DOUBLE HANDHOLE                         |
| ◼               | ◼               | HEAVY DUTY HANDHOLE                     |
| —               | —               | G.S. CONDUIT IN TRENCH(T) OR PUSHED (P) |
| ◻               | ◻               | DETECTOR LOOP                           |
| UD              |                 | UNIT DUCT                               |
| S               | IS              | SYSTEM                                  |
| IP              | I               | INTERSECTION                            |

**TEMPORARY TRAFFIC SIGNAL LEGEND**

- |   |  |    |                                  |
|---|--|----|----------------------------------|
| ← | TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION  | ⊙  | MICROWAVE VEHICLE SENSOR         |
| ↖ | TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION | ⊙  | PEDESTRIAN PUSHBUTTON DETECTOR   |
| ⊗ | TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM    | ⊙  | EMERGENCY VEHICLE LIGHT DETECTOR |
| ⊗ | TEMPORARY CONTROLLER CABINET                                       | ⊙  | CONFIRMATION BEACON              |
| — | TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE                        | ◻  | VEHICLE DETECTOR, INDUCTION LOOP |
| ⊕ | TEMPORARY SERVICE INSTALLATION                                     | CT | COMMON TRENCH                    |
| ⊕ | TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED                  | UD | UNIT DUCT                        |
|   |  | —  | G.S. CONDUIT IN TRENCH OR PUSHED |
|   |  | ◼  | HANDHOLE                         |
|   |  | ◼  | HEAVY DUTY HANDHOLE              |

TAKE TEMPORARY INTERCONNECT CABLE DOWN POLE TO HANDHOLE AND SPLICE TO EXISTING INTERCONNECT CABLE. THE INTERCONNECT CABLE SHALL BE IN UNIT DUCT FROM HANDHOLE TO 3m VERTICAL UP THE ADJACENT WOOD POLE.

NO. 62.5/125 MM12F & SM12F FIBER OPTIC CABLE ON TETHER/MESSENGER WIRE (TYPICAL)

UNIT DUCT TO CONTINUE UP WOOD POLE 3M (TYP.)

16.5m-75mm GALVANIZED STEEL CONDUIT ENCASUREMENT UNDER RAILROAD TRACK.

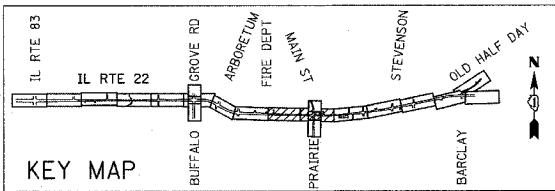
37m-P 50mm

3m-T 50mm UD

16.5m-P 75mm

75m AND VARIES

NO. 62.5/125 MM12F & SM12F FIBER OPTIC CABLE ON TETHER/MESSENGER WIRE (TYPICAL)



REVISIONS	
NAME	DATE

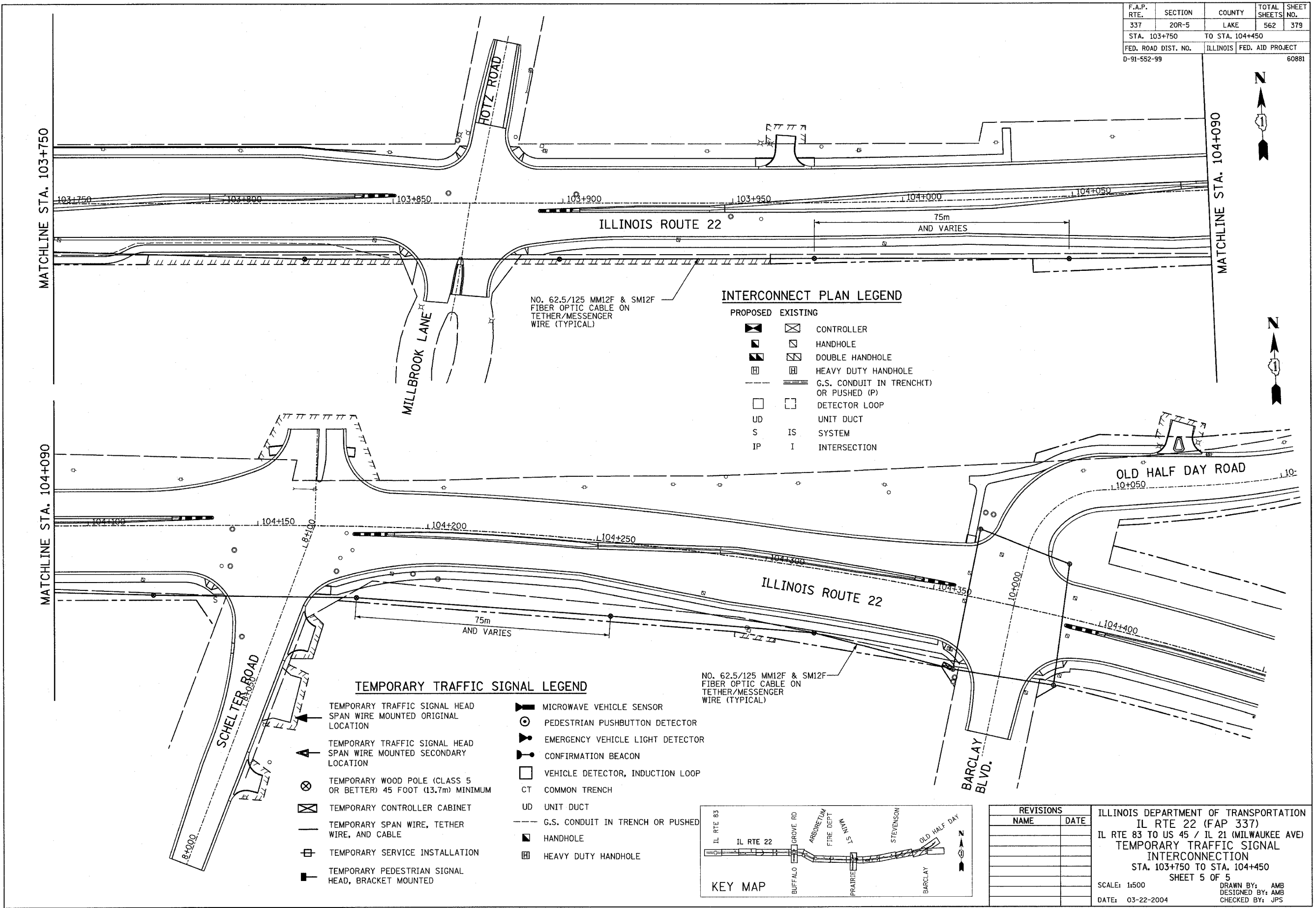
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 TEMPORARY TRAFFIC SIGNAL INTERCONNECTION  
 STA. 102+395 TO STA. 103+060  
 SHEET 3 OF 5  
 SCALE: 1:500  
 DATE: 03-22-2004  
 DRAWN BY: AMB  
 DESIGNED BY: AMB  
 CHECKED BY: JPS



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	ZOR-5	LAKE	562	379
STA. 103+750		TO STA. 104+450		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99		60881		

BY	DATE
FINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

BY	DATE
ORIGINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

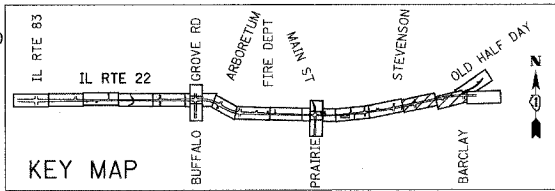


**INTERCONNECT PLAN LEGEND**

PROPOSED	EXISTING	
◼	◻	CONTROLLER
◼	◻	HANDHOLE
◼	◻	DOUBLE HANDHOLE
◼	◻	HEAVY DUTY HANDHOLE
—	—	G.S. CONDUIT IN TRENCH(T) OR PUSHED (P)
◻	◻	DETECTOR LOOP
UD		UNIT DUCT
S	IS	SYSTEM
IP	I	INTERSECTION

**TEMPORARY TRAFFIC SIGNAL LEGEND**

▲	TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION	◻	MICROWAVE VEHICLE SENSOR
▲	TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION	⊙	PEDESTRIAN PUSHBUTTON DETECTOR
⊗	TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM	◻	EMERGENCY VEHICLE LIGHT DETECTOR
◻	TEMPORARY CONTROLLER CABINET	◻	CONFIRMATION BEACON
—	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	◻	VEHICLE DETECTOR, INDUCTION LOOP
◻	TEMPORARY SERVICE INSTALLATION	CT	COMMON TRENCH
◻	TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED	UD	UNIT DUCT
		—	G.S. CONDUIT IN TRENCH OR PUSHED
		◻	HANDHOLE
		◻	HEAVY DUTY HANDHOLE



**REVISIONS**

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 TEMPORARY TRAFFIC SIGNAL INTERCONNECTION  
 STA. 103+750 TO STA. 104+450  
 SHEET 5 OF 5  
 SCALE: 1:500  
 DATE: 03-22-2004  
 DRAWN BY: AMB  
 DESIGNED BY: AMB  
 CHECKED BY: JPS

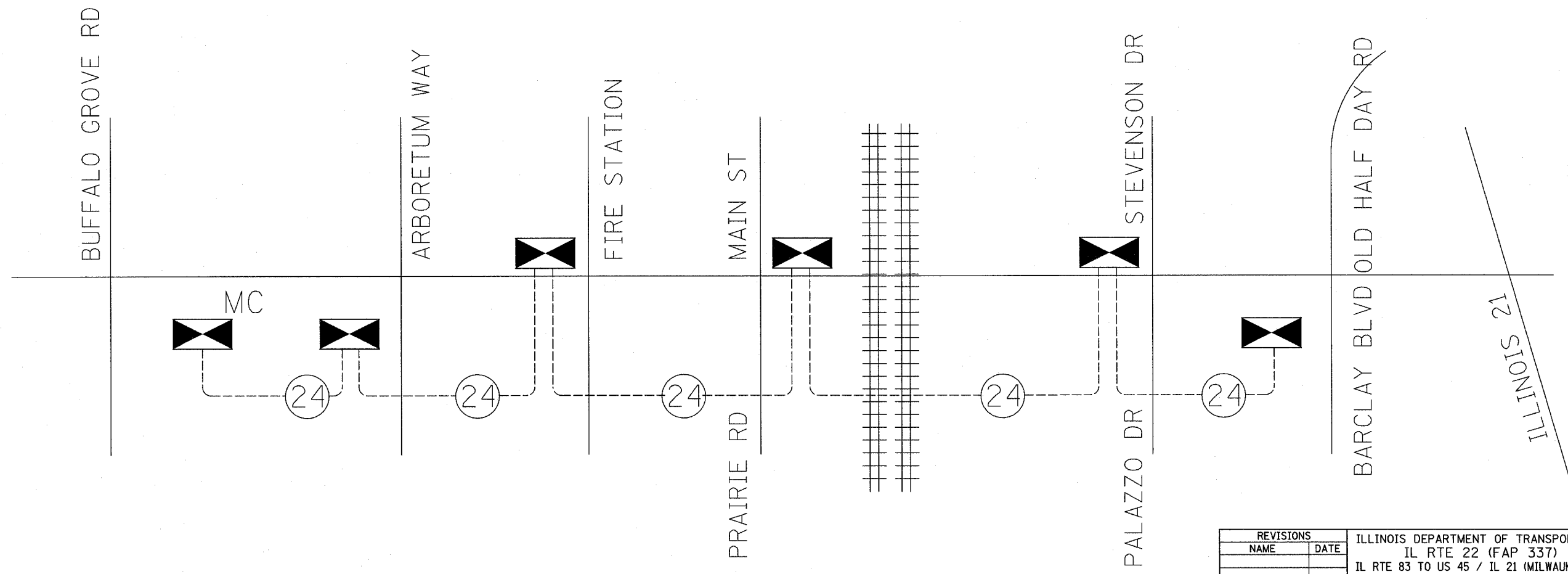
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	380
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
D-91-552-99			60881	

**INTERCONNECT SCHEMATIC LEGEND**

- |  |  |  |  |
|--|--|--|--|
| EXISTING INTERSECTION CONTROLLER   |  | PROPOSED SAMPLING (SYSTEM) PREFORMED DETECTORS                   |  |
| PROPOSED INTERSECTION CONTROLLER   |  | EXISTING FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F |  |
| EXISTING MASTER CONTROLLER   |  | PROPOSED FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F |  |
| PROPOSED MASTER CONTROLLER   |  | EXISTING INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE |  |
| MASTER MASTER CONTROLLER   |  | PROPOSED INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE |  |
| EXISTING INTERSECTION & SAMPLING (SYSTEM) DETECTORS  |  | EXISTING INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED    |  |
| PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTORS  |  | PROPOSED INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED    |  |
| EXISTING INTERSECTION LOOP DETECTORS   |  | EXISTING LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED               |  |
| PROPOSED SAMPLING (SYSTEM) DETECTORS   |  | PROPOSED LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED               |  |
| EXISTING SAMPLING (SYSTEM) DETECTORS   |  | EXISTING ELECTRIC CABLE, 1/C (AS SPECIFIED)                      |  |
| PROPOSED SAMPLING (SYSTEM) DETECTORS   |  | PROPOSED ELECTRIC CABLE, 1/C (AS SPECIFIED)                      |  |
| EXISTING SAMPLING (SYSTEM) DETECTORS, PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS. |  | EXISTING TELEPHONE CONNECTION                                    |  |
| EXISTING SAMPLING (SYSTEM) DETECTORS, PROPOSED SAMPLING (SYSTEM) DETECTORS.                  |  | PROPOSED TELEPHONE CONNECTION                                    |  |
| EXISTING PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS                                |  |  |  |
| PROPOSED PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS                                |  |  |  |
| EXISTING SAMPLING (SYSTEM) PREFORMED DETECTORS   |  |  |  |

FINAL SURVEY PLOTTED	BY	DATE
SURVEY PLOTTED		
NOTE BOOK TEMPLATE		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY PLOTTED	BY	DATE
SURVEY PLOTTED		
NOTE BOOK TEMPLATE		
AREAS CHECKED		
NO.		



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)

IL 22 TEMPORARY  
 INTERCONNECT SCHEMATIC

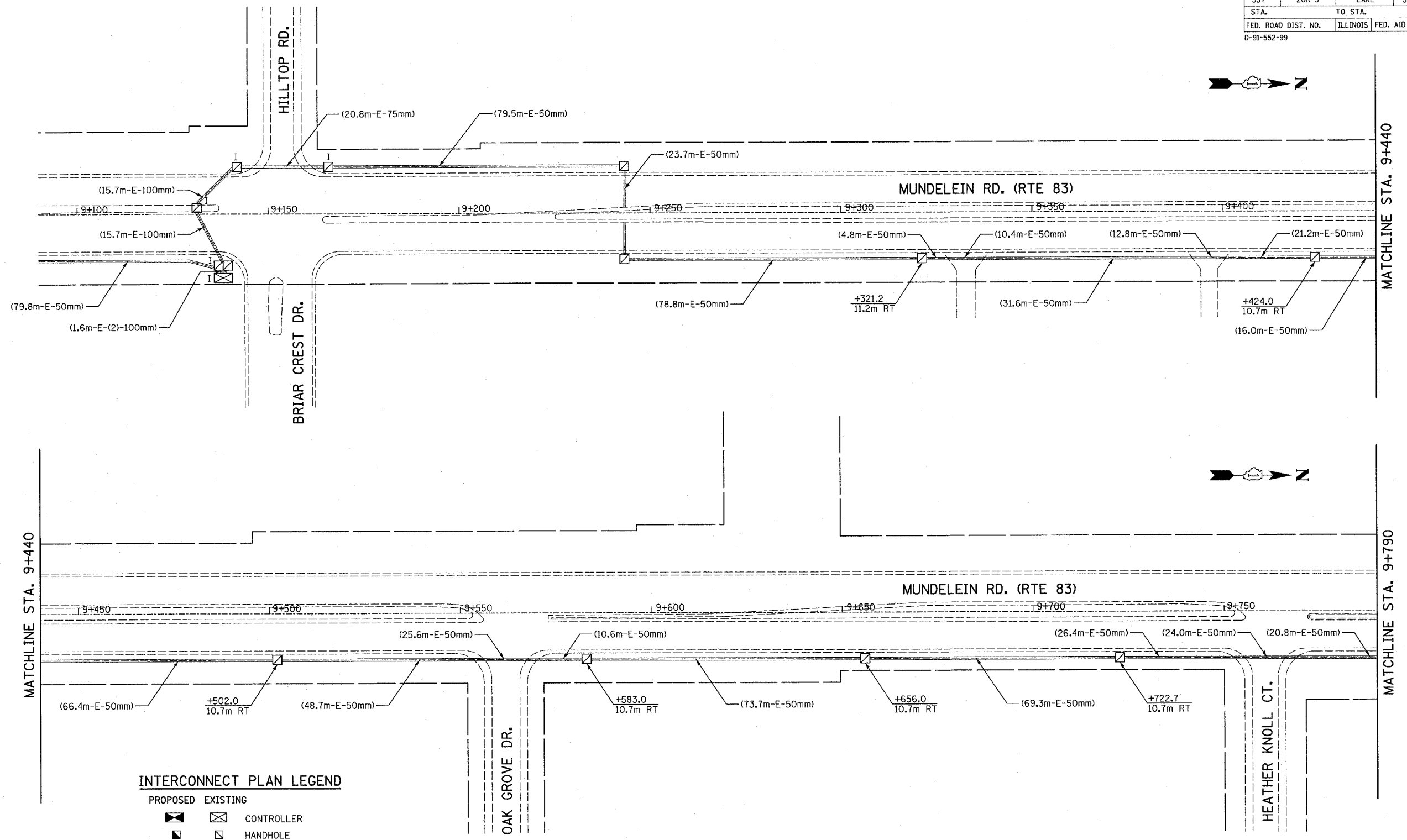
SCALE: NOT TO SCALE      DRAWN BY: AMB  
 DATE: 03-22-2004      CHECKED BY: JPS



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	381
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
0-91-552-99		60881		

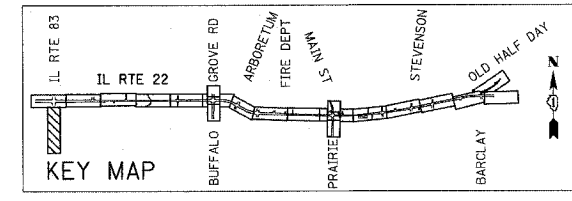
BY	DATE
FINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

BY	DATE
ORIGINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	



**INTERCONNECT PLAN LEGEND**

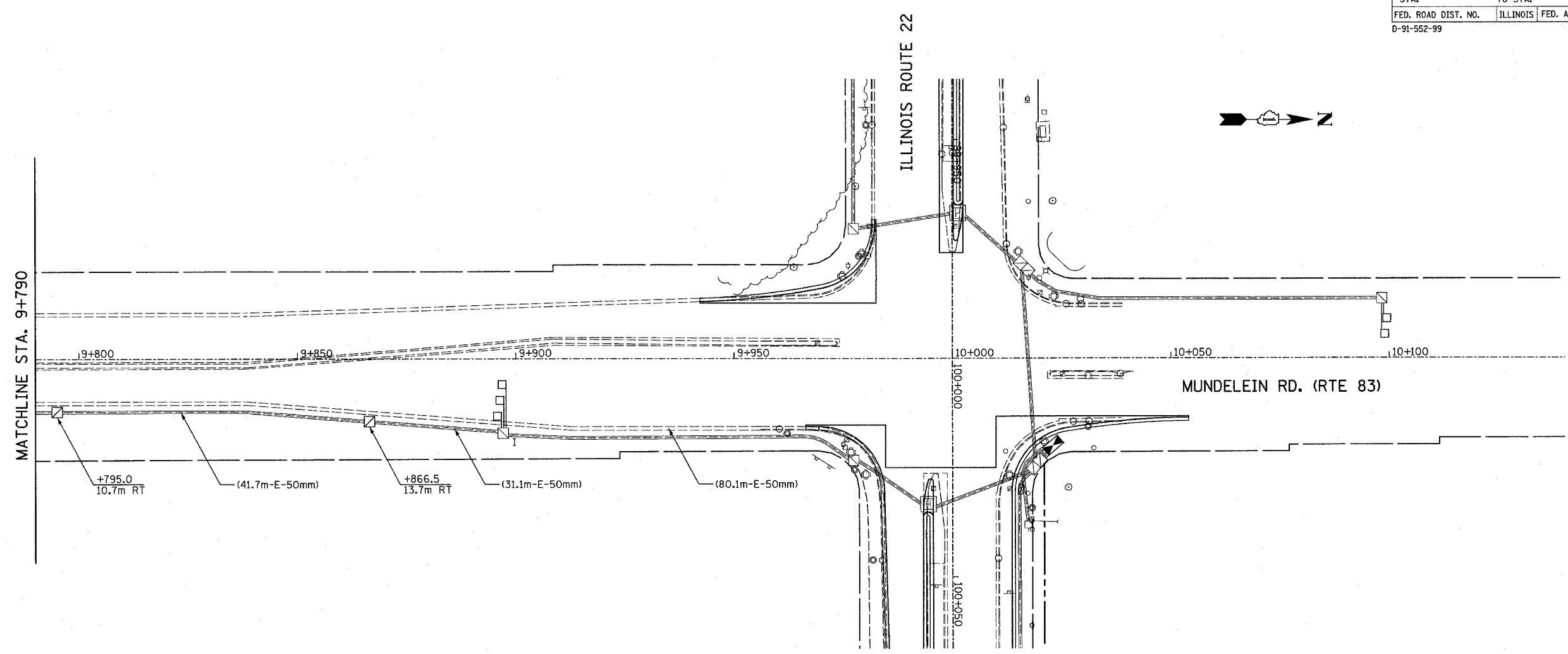
- |          |          |  |
|----------|----------|--|
| PROPOSED | EXISTING |  |
|          |          | CONTROLLER                                 |
|          |          | HANDHOLE                                   |
|          |          | DOUBLE HANDHOLE                            |
|          |          | HEAVY DUTY HANDHOLE                        |
|          |          | G.S. CONDUIT IN TRENCH(T)<br>OR PUSHED (P) |
|          |          | DETECTOR LOOP                              |
| UD       |          | UNIT DUCT                                  |
| S        | IS       | SYSTEM                                     |
| IP       | I        | INTERSECTION                               |



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 TRAFFIC SIGNAL INTERCONNECTION  
 MUNDELEIN ROAD (RTE 83)  
 STA. 9+100 TO STA. 9+790  
 SHEET 1 OF 10  
 SCALE: 1:500  
 DATE: 03-22-2004  
 DRAWN BY: BK  
 CHECKED BY: DAJ

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	382
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99		60881		

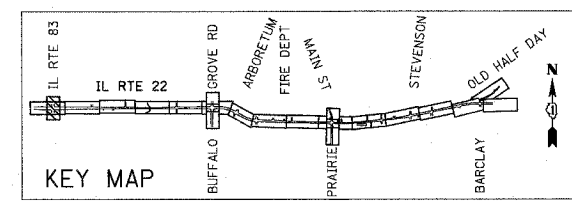


FINAL SURVEY PLOTTED	BY	DATE
NOTE BOOK TEMPLATE		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY PLOTTED	BY	DATE
NOTE BOOK TEMPLATE		
AREAS CHECKED		
NO.		

**INTERCONNECT PLAN LEGEND**

- |          |          |  |
|----------|----------|--|
| PROPOSED | EXISTING |  |
|          |          | CONTROLLER                                 |
|          |          | HANDHOLE                                   |
|          |          | DOUBLE HANDHOLE                            |
|          |          | HEAVY DUTY HANDHOLE                        |
|          |          | G.S. CONDUIT IN TRENCH(T)<br>OR PUSHED (P) |
|          |          | DETECTOR LOOP                              |
| UD       |          | UNIT DUCT                                  |
| S        |          | IS SYSTEM                                  |
| IP       |          | I INTERSECTION                             |



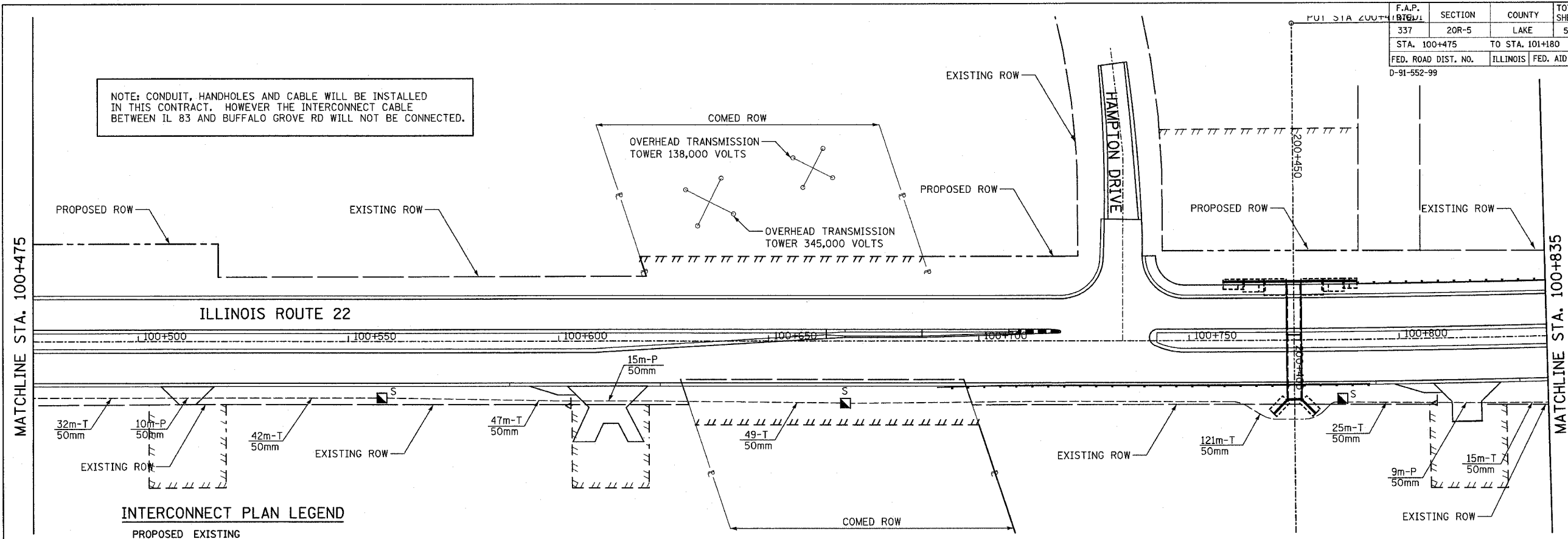
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 TRAFFIC SIGNAL INTERCONNECTION  
 MUNDELEIN ROAD (RTE 83)  
 STA. 9+790 TO STA. 10+100  
 SHEET 2 OF 10  
 SCALE: 1:500 DRAWN BY: BK  
 DATE: 03-22-2004 CHECKED BY: DAJ



F.A.P. (BTL)	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	384
STA. 100+475		TO STA. 101+180		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99		60881		

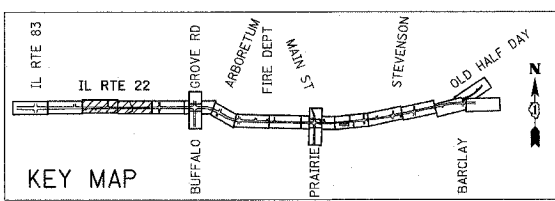
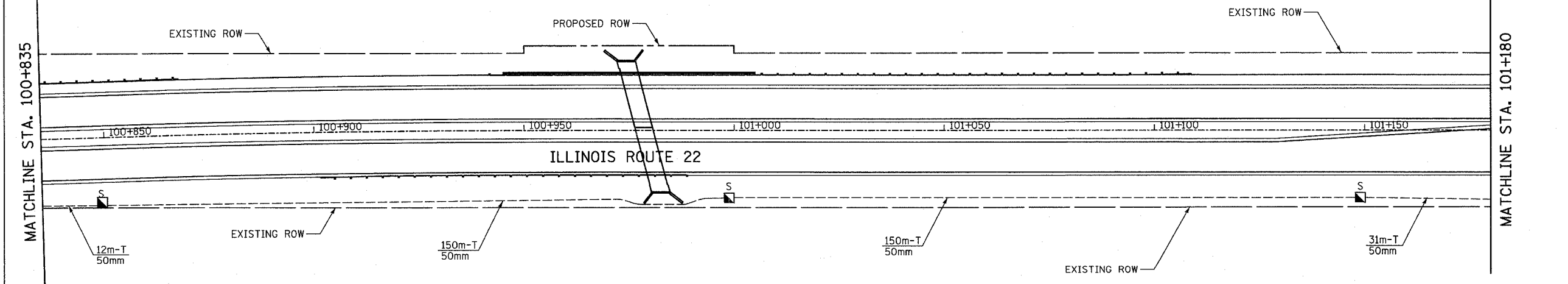
NOTE: CONDUIT, HANDHOLES AND CABLE WILL BE INSTALLED IN THIS CONTRACT. HOWEVER THE INTERCONNECT CABLE BETWEEN IL 83 AND BUFFALO GROVE RD WILL NOT BE CONNECTED.



**INTERCONNECT PLAN LEGEND**

- | PROPOSED | EXISTING |   |
|----------|----------|---|
|          |          | CONTROLLER                              |
|          |          | HANDHOLE                                |
|          |          | DOUBLE HANDHOLE                         |
|          |          | HEAVY DUTY HANDHOLE                     |
|          |          | G.S. CONDUIT IN TRENCH(T) OR PUSHED (P) |
|          |          | DETECTOR LOOP                           |
|          |          | UNIT DUCT                               |
|          |          | IS SYSTEM                               |
|          |          | INTERSECTION                            |

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 TRAFFIC SIGNAL INTERCONNECTION  
 STA. 100+475 TO STA. 101+180  
 SHEET 4 OF 10  
 SCALE: 1:500  
 DATE: 03-22-2004  
 DRAWN BY: AMB  
 DESIGNED BY: AMB  
 CHECKED BY: JPS

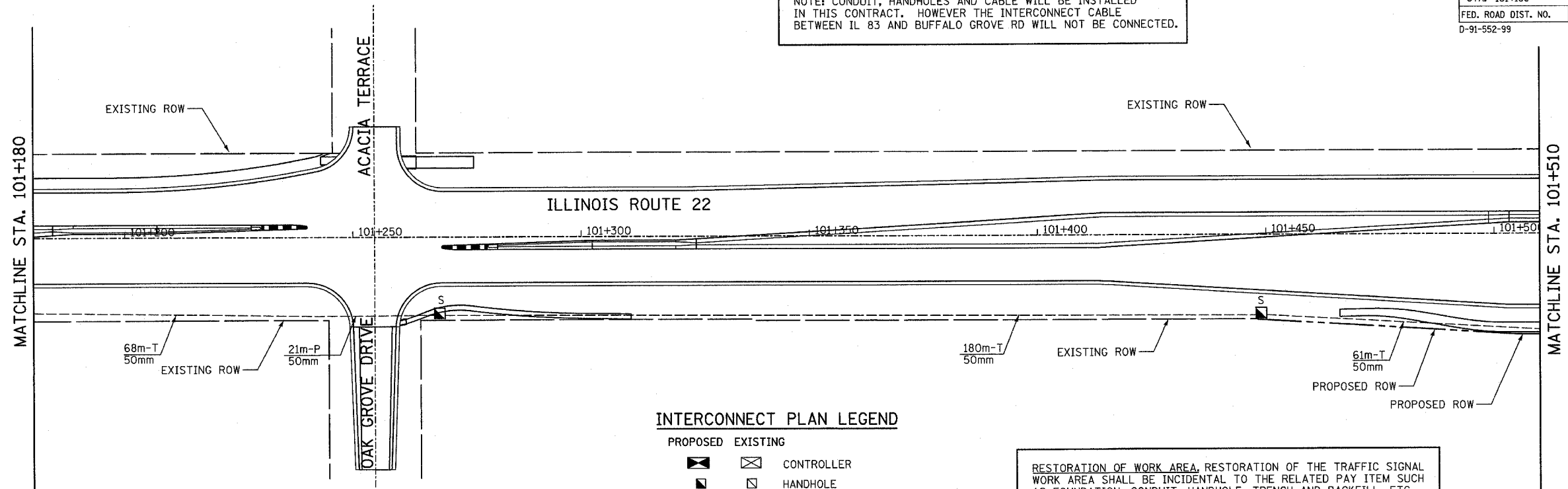
FINAL SURVEYED	BY	DATE
SURVEY PLOTTED		
NOTE BOOK TEMPLATE		
AREAS CHECKED		
NO.		

ORIGINAL SURVEYED	BY	DATE
SURVEY PLOTTED		
NOTE BOOK TEMPLATE		
AREAS CHECKED		
NO.		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	385
STA. 101+180		TO STA. 101+800		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
0-91-552-99		60881		

NOTE: CONDUIT, HANDHOLES AND CABLE WILL BE INSTALLED IN THIS CONTRACT. HOWEVER THE INTERCONNECT CABLE BETWEEN IL 83 AND BUFFALO GROVE RD WILL NOT BE CONNECTED.

BY	DATE
FINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

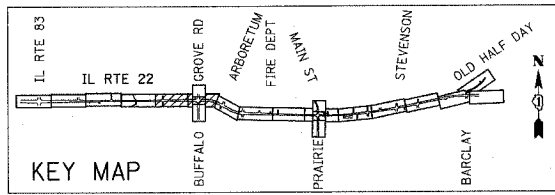
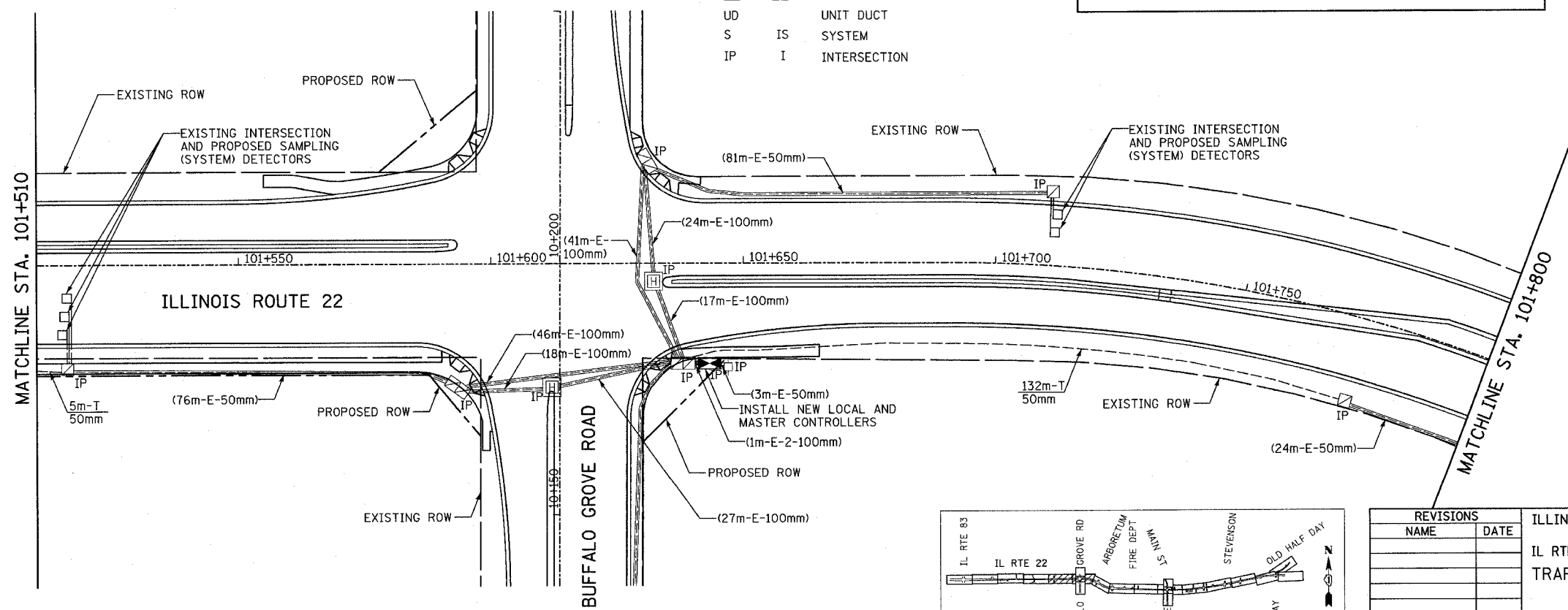


**INTERCONNECT PLAN LEGEND**

- |  |  |  |
|--|--|--|
|  |  | CONTROLLER                             |
|  |  | HANDHOLE                               |
|  |  | DOUBLE HANDHOLE                        |
|  |  | HEAVY DUTY HANDHOLE                    |
|  |  | G.S. CONDUIT IN TRENCH (OR PUSHED (P)) |
|  |  | DETECTOR LOOP                          |
|  |  | UNIT DUCT                              |
|  |  | SYSTEM                                 |
|  |  | INTERSECTION                           |

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

BY	DATE
ORIGINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	



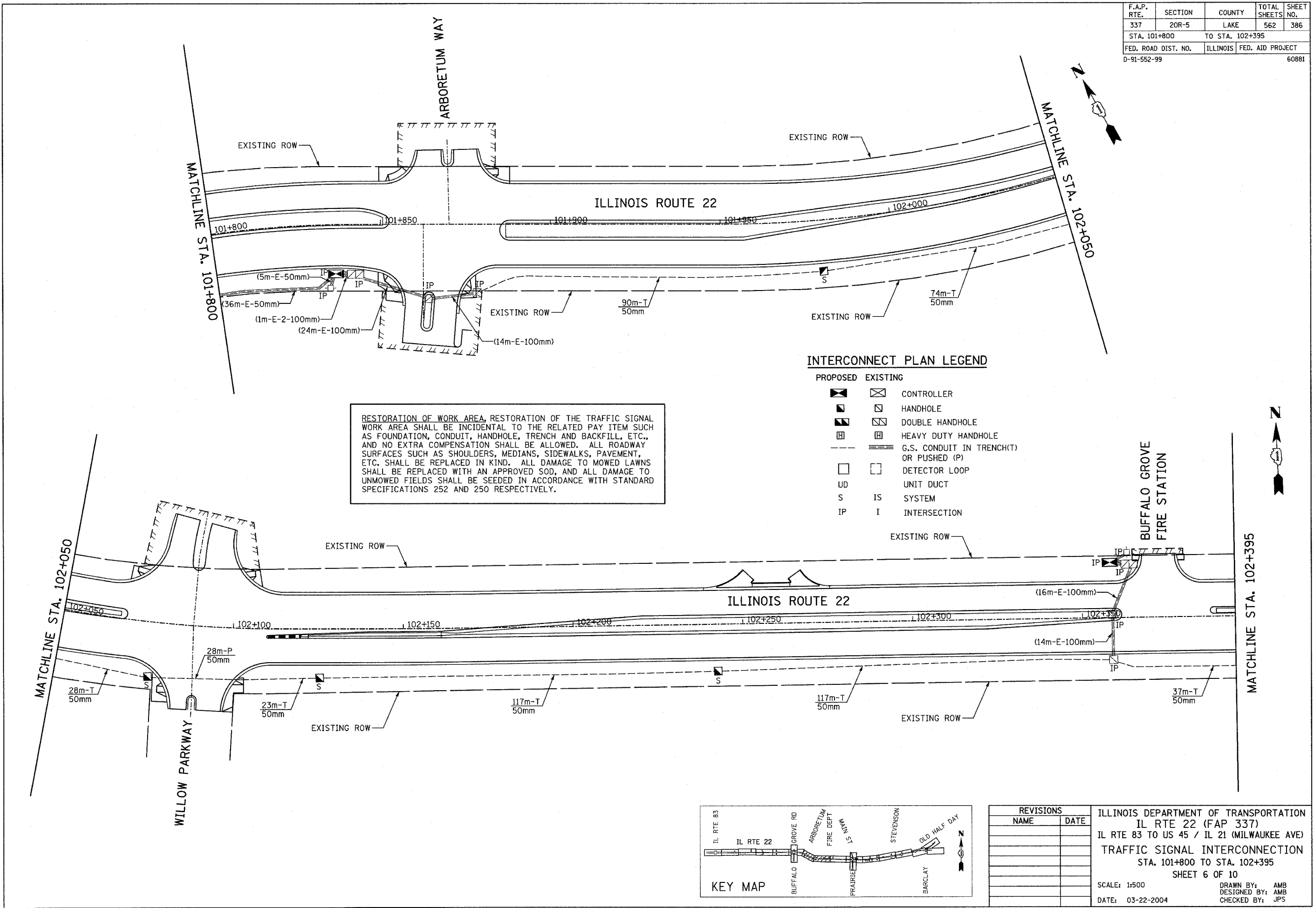
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 TRAFFIC SIGNAL INTERCONNECTION  
 STA. 101+180 TO STA. 101+800  
 SHEET 5 OF 10  
 SCALE: 1:500  
 DATE: 03-22-2004  
 DRAWN BY: AMB  
 DESIGNED BY: AMB  
 CHECKED BY: JPS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	386
STA. 101+800		TO STA. 102+395		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
D-91-552-99		60881		

FINAL SURVEYED	BY	DATE
SURVEY PLOTTED		
NOTE BOOK		
TEMPLATE		
AREAS CHECKED		
NO.		

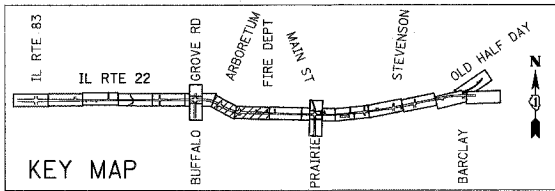
ORIGINAL SURVEYED	BY	DATE
SURVEY PLOTTED		
NOTE BOOK		
TEMPLATE		
AREAS CHECKED		
NO.		



RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

**INTERCONNECT PLAN LEGEND**

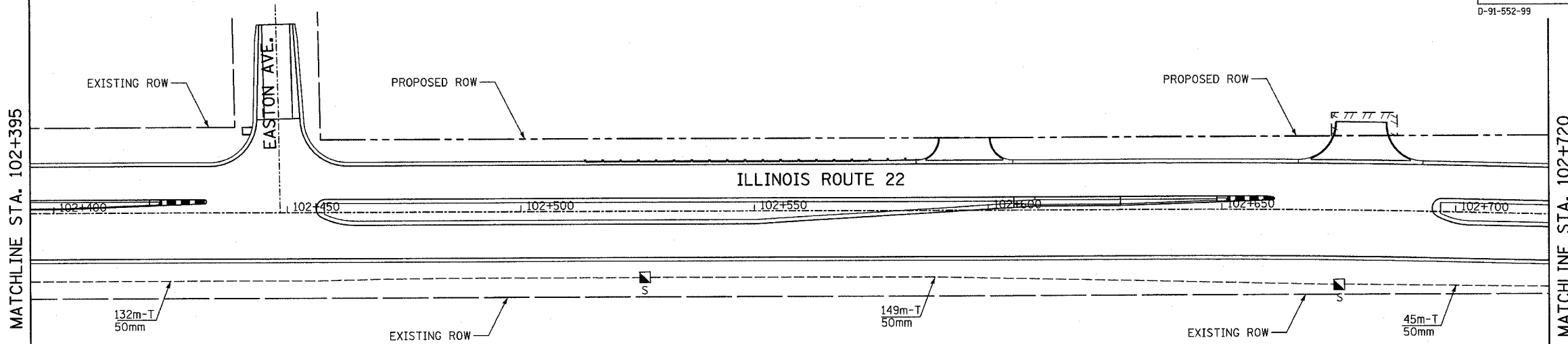
- | PROPOSED | EXISTING |   |
|----------|----------|---|
|          |          | CONTROLLER                              |
|          |          | HANDHOLE                                |
|          |          | DOUBLE HANDHOLE                         |
|          |          | HEAVY DUTY HANDHOLE                     |
|          |          | G.S. CONDUIT IN TRENCH(T) OR PUSHED (P) |
|          |          | DETECTOR LOOP                           |
|          |          | UNIT DUCT                               |
|          |          | IS SYSTEM                               |
|          |          | I INTERSECTION                          |



REVISIONS	
NAME	DATE

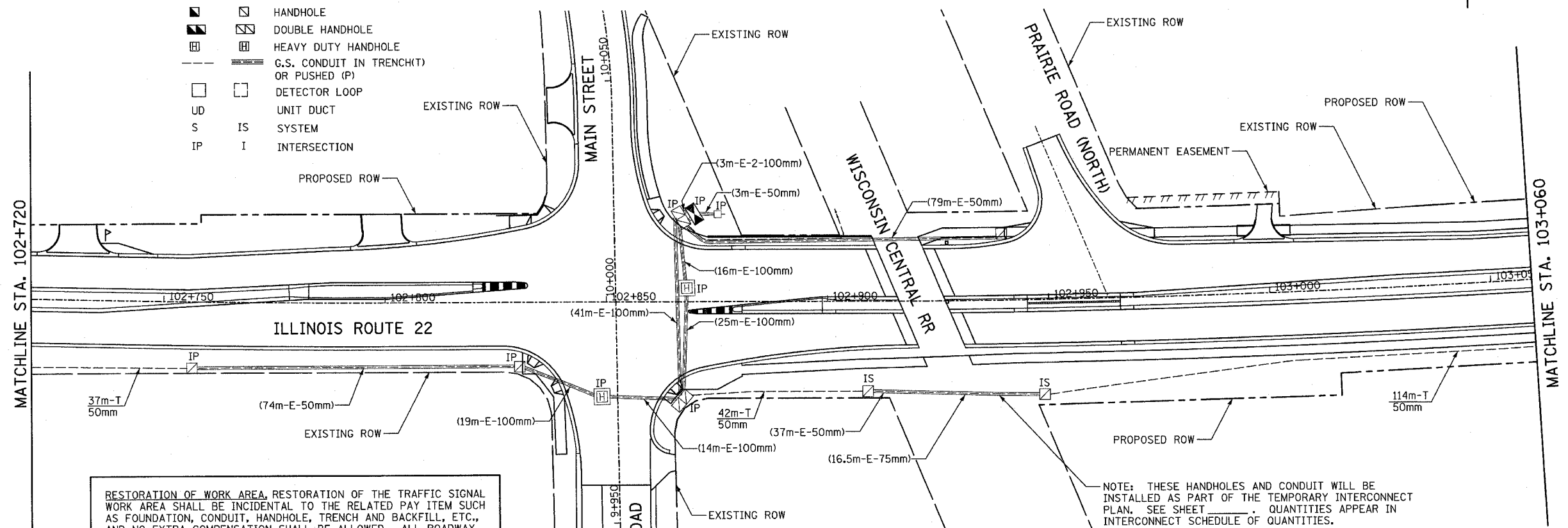
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 TRAFFIC SIGNAL INTERCONNECTION  
 STA. 101+800 TO STA. 102+395  
 SHEET 6 OF 10  
 SCALE: 1:500  
 DATE: 03-22-2004  
 DRAWN BY: AMB  
 DESIGNED BY: AMB  
 CHECKED BY: JPS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	387
STA. 102+395		TO STA. 103+060		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
0-91-552-99		60881		



**INTERCONNECT PLAN LEGEND**

- | PROPOSED | EXISTING |   |
|----------|----------|---|
|          |          | CONTROLLER                              |
|          |          | HANDHOLE                                |
|          |          | DOUBLE HANDHOLE                         |
|          |          | HEAVY DUTY HANDHOLE                     |
|          |          | G.S. CONDUIT IN TRENCH(T) OR PUSHED (P) |
|          |          | DETECTOR LOOP                           |
|          |          | UNIT DUCT                               |
|          |          | SYSTEM                                  |
|          |          | INTERSECTION                            |

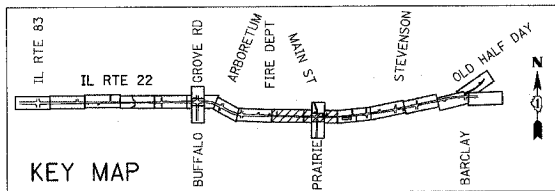


RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE: THESE HANDHOLES AND CONDUIT WILL BE INSTALLED AS PART OF THE TEMPORARY INTERCONNECT PLAN. SEE SHEET \_\_\_\_\_ QUANTITIES APPEAR IN INTERCONNECT SCHEDULE OF QUANTITIES.

BY	DATE
FINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

BY	DATE
ORIGINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	



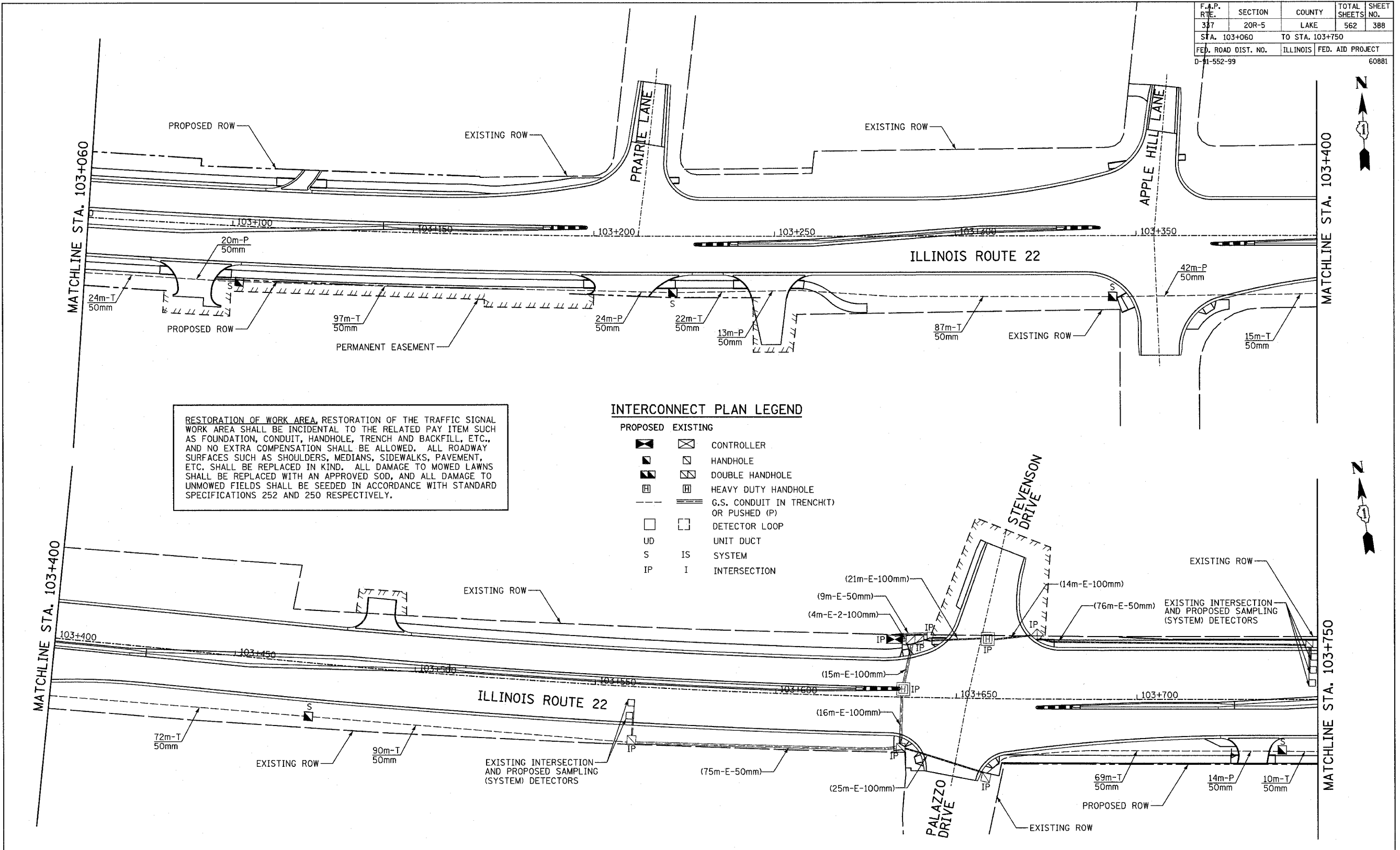
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 TRAFFIC SIGNAL INTERCONNECTION  
 STA. 102+395 TO STA. 103+060  
 SHEET 7 OF 10  
 SCALE: 1:500  
 DATE: 03-22-2004  
 DRAWN BY: AMB  
 DESIGNED BY: AMB  
 CHECKED BY: JPS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
337	20R-5	LAKE	562	388
STA. 103+060		TO STA. 103+750		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99		60881		

BY	DATE
FINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	

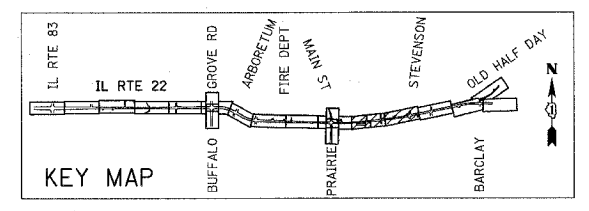
BY	DATE
ORIGINAL SURVEYED	
SURVEY PLOTTED	
NOTE BOOK TEMPLATE	
AREAS CHECKED	
NO.	



RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

**INTERCONNECT PLAN LEGEND**

PROPOSED	EXISTING	DESCRIPTION
[Symbol]	[Symbol]	CONTROLLER
[Symbol]	[Symbol]	HANDHOLE
[Symbol]	[Symbol]	DOUBLE HANDHOLE
[Symbol]	[Symbol]	HEAVY DUTY HANDHOLE
[Symbol]	[Symbol]	G.S. CONDUIT IN TRENCH(T) OR PUSHED (P)
[Symbol]	[Symbol]	DETECTOR LOOP
[Symbol]	[Symbol]	UNIT DUCT
[Symbol]	[Symbol]	IS SYSTEM
[Symbol]	[Symbol]	I INTERSECTION



REVISIONS	
NAME	DATE

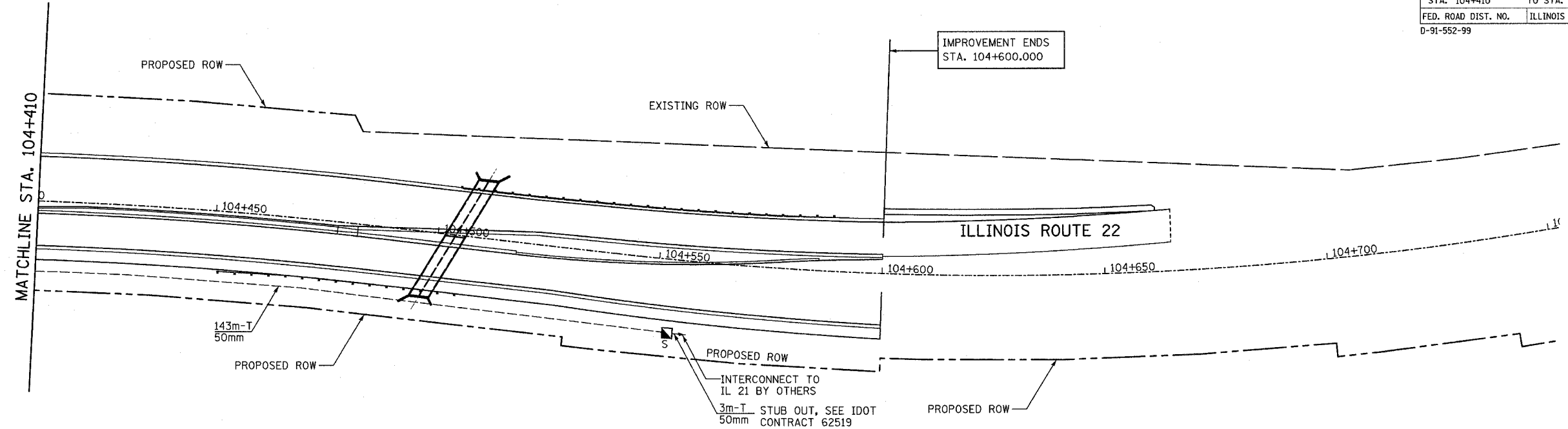
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 TRAFFIC SIGNAL INTERCONNECTION  
 STA. 103+060 TO STA. 103+750  
 SHEET 8 OF 10

SCALE: 1:500  
 DATE: 03-22-2004  
 DRAWN BY: AMB  
 DESIGNED BY: AMB  
 CHECKED BY: JPS





F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	390
STA. 104+410		TO STA. 104+615		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99		60881		



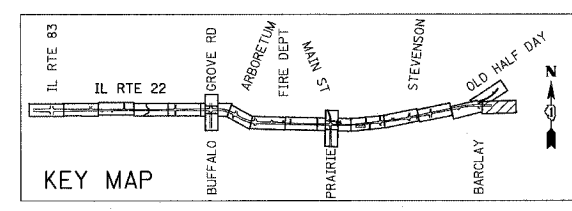
FINAL SURVEY	BY	DATE
SURVEY PLOTTED		
NOTE BOOK TEMPLATE		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEY PLOTTED		
NOTE BOOK TEMPLATE		
AREAS CHECKED		
NO.		

**INTERCONNECT PLAN LEGEND**

PROPOSED	EXISTING	
		CONTROLLER
		HANDHOLE
		DOUBLE HANDHOLE
		HEAVY DUTY HANDHOLE
		G.S. CONDUIT IN TRENCH(T) OR PUSHED (P)
		DETECTOR LOOP
UD		UNIT DUCT
S	IS	SYSTEM
IP	I	INTERSECTION

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



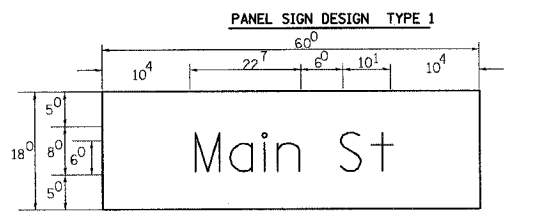
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 TRAFFIC SIGNAL INTERCONNECTION  
 STA. 104+410 TO STA. 104+600  
 SHEET 10 OF 10  
 SCALE: 1:500  
 DATE: 03-22-2004  
 DRAWN BY: AMB  
 DESIGNED BY: AMB  
 CHECKED BY: JPS

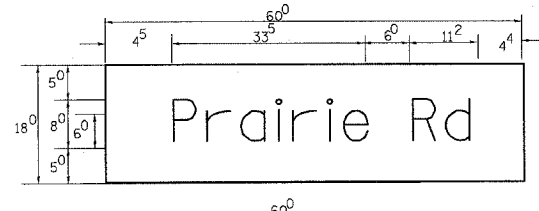




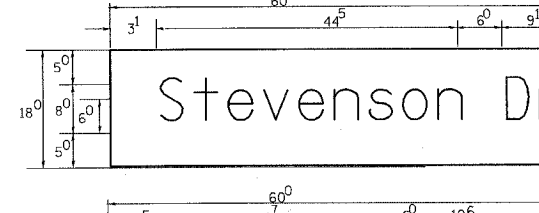
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	393
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
D-91-552-99		60881		



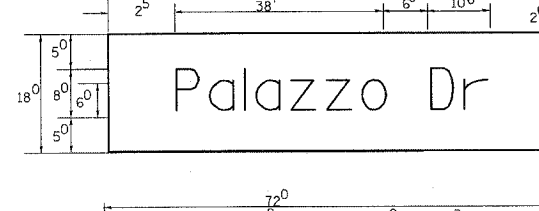
0.7 Sq. M. each  
 7.5 Sq. Ft. each  
 1 Required  
 Design Series D



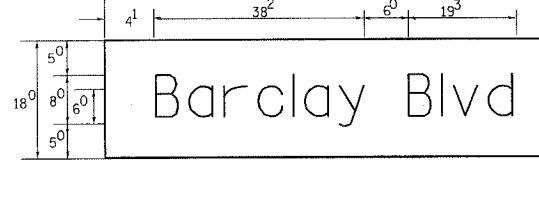
0.7 Sq. M. each  
 7.5 Sq. Ft. each  
 1 Required  
 Design Series C



0.7 Sq. M. each  
 7.5 Sq. Ft. each  
 2 Required  
 Design Series C

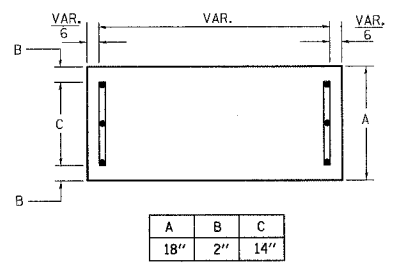


0.7 Sq. M. each  
 7.5 Sq. Ft. each  
 2 Required  
 Design Series D

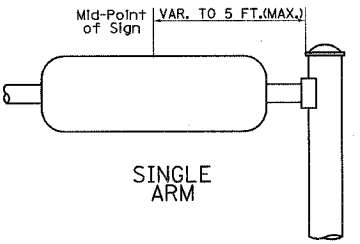


0.84 Sq. M. each  
 9 Sq. Ft. each  
 2 Required  
 Design Series D

SUPPORTING CHANNELS

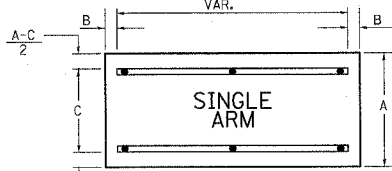


A	B	C
18"	2"	14"

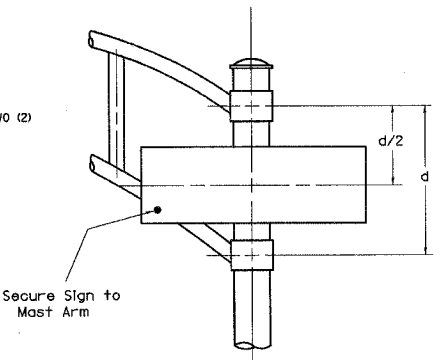


SINGLE ARM

SUPPORTING CHANNELS



A	B	C
18"	2"	12"
30"	2"	22"



DUAL ARM

SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM  
 Shall be used. See Note #5.

GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 834001, 834006 AND 834011, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 6'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
  - ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
  - THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 6'-0".
  - ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4".
  - SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:
    - \* A.K.T. CORPORATION
    - \* SCHALMBURG, IL
    - \* TUCKER COMPANY, INC.
    - \* WAUNATOSA, WI
    - \* AMERICAN FABRICATION CO.
    - \* CHICAGO HEIGHTS, IL
    - \* WESTERN TRAFFIC CONTROL INC.
    - \* CICERO, IL
- PARTS LISTING:**  
 SIGN CHANNEL PART #HPN053 (MED. CHANNEL)  
 SIGN SCREWS 1/4" x 14 x 1" H.R.H. #3  
 SELF TAPPING WITH NEOPRENE WASHER  
 BRACKETS PART #HPN034 (UNIVERSAL)  
 CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING  
 OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

Upper Case To Lower Case  
 Spacing Chart 8-6 Inch Series "C & D"  
 EXAMPLE, 2<sup>3</sup> DENOTES 3/8

SERIES	SECOND LETTER																	
	a c d e		g o q		b h i k l		m n p r u		f w		J		s t		v y		x z	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
A W X	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	
B	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	
C E G	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	
D O Q R	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	
F	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	
H I M N	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>2</sup>	2 <sup>4</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>1</sup>	
J U	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>1</sup>	
K L	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	
P	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	
S	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	
T	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	
V	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	
Y	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>5</sup>	0 <sup>7</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	
Z	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>1</sup>	

Lower Case To Lower Case  
 Spacing Chart 6 Inch Series "C & D"

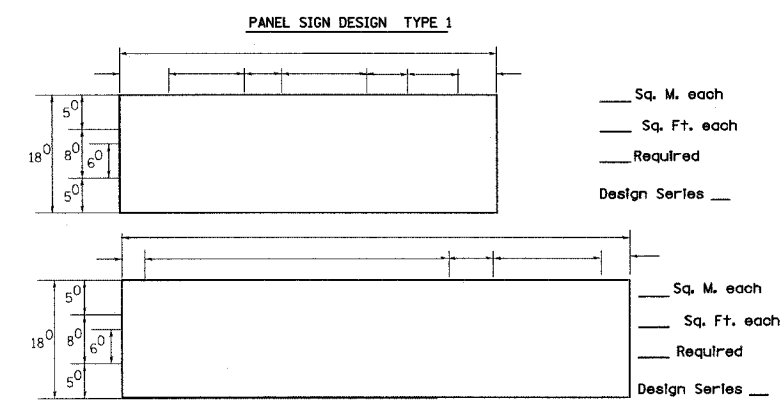
SERIES	SECOND LETTER																	
	a c d e		g o q		b h i k l		m n p r u		f w		J		s t		v y		x z	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
ad h g i j	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	
l m n q u	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	
b f k o p s	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	
c e	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	
r	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>3</sup>	0 <sup>3</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>0</sup>	
t z	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	
v y	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	
w	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	
x	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	

Number To Number  
 Spacing Chart 8 Inch Series "C & D"

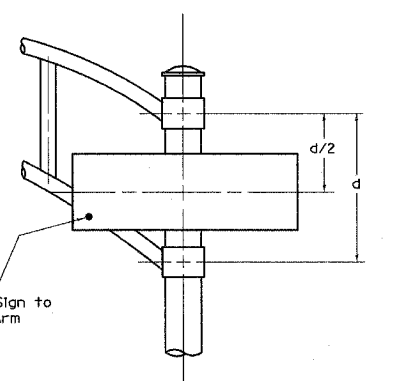
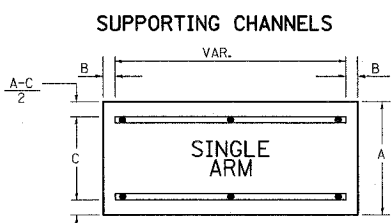
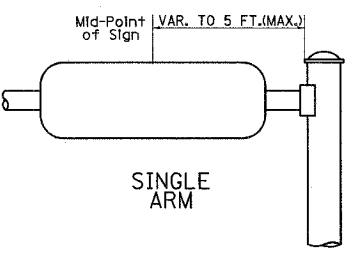
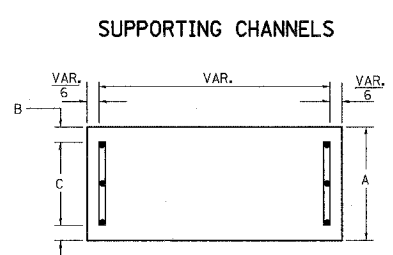
SERIES	SECOND NUMBER																			
	0		1		2		3		4		5		6		7		8		9	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>
1	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>1</sup>
2 3 4	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>
5	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>
6	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>
7	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>
8	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>

UPPER AND LOWER CASE LETTER WIDTHS

LETTERS	6 INCH UPPER CASE LETTERS				8 INCH UPPER CASE LETTERS				LETTERS	6 INCH LOWER CASE LETTERS	
	SERIES		SERIES		SERIES		SERIES			C	D
	C	D	C	D	C	D	C	D			
A	3 <sup>6</sup>	5 <sup>0</sup>	5 <sup>0</sup>	6 <sup>5</sup>	a	3 <sup>5</sup>	4 <sup>2</sup>				
B	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	b	3 <sup>5</sup>	4 <sup>2</sup>				
C	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	c	3 <sup>5</sup>	4 <sup>1</sup>				
D	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	d	3 <sup>5</sup>	4 <sup>2</sup>				
E	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	e	3 <sup>5</sup>	4 <sup>2</sup>				
F	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	f	2 <sup>3</sup>	2 <sup>6</sup>				
G	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	g	3 <sup>5</sup>	4 <sup>2</sup>				
H	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	h	3 <sup>5</sup>	4 <sup>2</sup>				
I	0 <sup>7</sup>	0 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	i	1 <sup>1</sup>	1 <sup>1</sup>				
J	3 <sup>0</sup>	3 <sup>6</sup>	4 <sup>0</sup>	5 <sup>0</sup>	j	2 <sup>0</sup>	2 <sup>2</sup>				
K	3 <sup>2</sup>	4 <sup>1</sup>	4 <sup>3</sup>	5 <sup>4</sup>	k	3 <sup>5</sup>	4 <sup>2</sup>				
L	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	l	1 <sup>1</sup>	1 <sup>1</sup>				
M	3 <sup>7</sup>	4 <sup>5</sup>	5 <sup>1</sup>	6 <sup>1</sup>	m	6 <sup>0</sup>	7 <sup>0</sup>				
N	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	n	3 <sup>5</sup>	4 <sup>2</sup>				
O	3 <sup>4</sup>	4 <sup>2</sup>	4 <sup>5</sup>	5 <sup>5</sup>	o	3 <sup>6</sup>	4 <sup>3</sup>				
P	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	p	3 <sup>5</sup>	4 <sup>2</sup>				
Q	3 <sup>4</sup>	4 <sup>2</sup>	4 <sup>5</sup>	5 <sup>5</sup>	q	3 <sup>5</sup>	4 <sup>2</sup>				
R	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	r	2 <sup>6</sup>	3 <sup>2</sup>				
S	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	s	3 <sup>6</sup>	4 <sup>2</sup>				
T</											

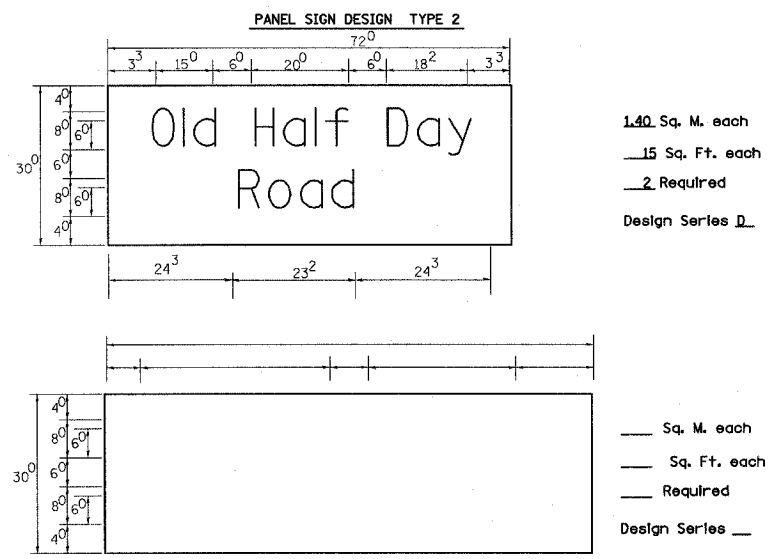


— Sq. M. each  
 — Sq. Ft. each  
 — Required  
 Design Series —

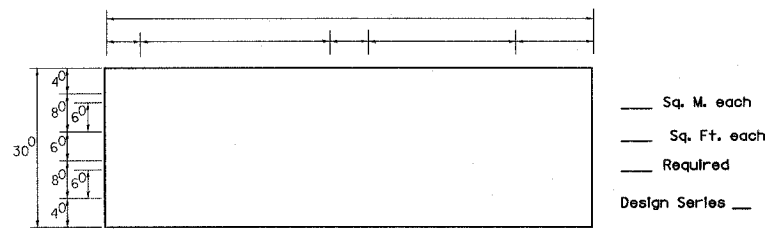


**SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM**  
 Shall be used. See Note #5.

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS



1.40 Sq. M. each  
 .15 Sq. Ft. each  
 — 2 Required  
 Design Series D.



**GENERAL NOTES**

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 834001, 834006 AND 834011, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 6'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
  - ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
  - THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 6'-0".
  - ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4".
  - SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:
    - \* A.K.T. CORPORATION SCHAUMBURG, IL
    - \* TUCKER COMPANY, INC. WAUWATOSA, WI
    - \* AMERICAN FABRICATION CO. CHICAGO HEIGHTS, IL
    - \* WESTERN TRAFFIC CONTROL INC. CICERO, IL
- PARTS LISTING:**  
 SIGN CHANNEL: PART #HPN053 (MED. CHANNEL)  
 SIGN SCREWS: 1/4" x 14 x 1" H.W.H. #3  
 BRACKETS: PART #HPN034 (UNIVERSAL)  
 CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING  
 OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

Upper Case To Lower Case  
 Spacing Chart 8-6 Inch Series "C & D"

SERIES	SECOND LETTER															
	a o d e		b h i k l		f w		J		s t		v y		x z			
	C	D	C	D	C	D	C	D	C	D	C	D	C	D		
A W X	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	
B	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>
C E G	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
D O Q R	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
F	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>
H I M N	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>2</sup>	2 <sup>4</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>
J U	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>
K L	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
P	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
S	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
T	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
V	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
Y	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>4</sup>	1 <sup>5</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>5</sup>	0 <sup>7</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>
Z	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>0</sup>	2 <sup>1</sup>

Lower Case To Lower Case  
 Spacing Chart 6 Inch Series "C & D"

SERIES	SECOND LETTER															
	a o d e		b h i k l		f w		J		s t		v y		x z			
	C	D	C	D	C	D	C	D	C	D	C	D	C	D		
ad h g l j	1 <sup>6</sup>	1 <sup>7</sup>	2 <sup>2</sup>	2 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>
l m n q u	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
b f k o p s	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
c e	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>
r	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>3</sup>	0 <sup>3</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>
t z	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
v y	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	0 <sup>6</sup>	1 <sup>0</sup>	0 <sup>6</sup>	1 <sup>0</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>
w	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>
x	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>2</sup>	1 <sup>4</sup>

Number To Number  
 Spacing Chart 8 Inch Series "C & D"

SERIES	SECOND NUMBER																			
	0		1		2		3		4		5		6		7		8		9	
	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>
1	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>1</sup>
2 3 4	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>
5	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
6	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>4</sup>	1 <sup>5</sup>
7	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>5</sup>	0 <sup>5</sup>	0 <sup>6</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>1</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>
8	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>4</sup>	1 <sup>5</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>6</sup>	1 <sup>7</sup>	1 <sup>6</sup>	1 <sup>7</sup>

LETTERS	UPPER AND LOWER CASE LETTER WIDTHS				LETTERS	6 INCH LOWER CASE LETTERS	
	6 INCH UPPER CASE LETTERS		8 INCH UPPER CASE LETTERS			SERIES	
	C	D	C	D		C	D
A	3 <sup>6</sup>	5 <sup>0</sup>	5 <sup>0</sup>	6 <sup>5</sup>	a	3 <sup>5</sup>	4 <sup>2</sup>
B	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	b	3 <sup>5</sup>	4 <sup>2</sup>
C	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	c	3 <sup>5</sup>	4 <sup>1</sup>
D	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	d	3 <sup>5</sup>	4 <sup>2</sup>
E	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	e	3 <sup>5</sup>	4 <sup>2</sup>
F	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	f	2 <sup>3</sup>	2 <sup>6</sup>
G	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	g	3 <sup>5</sup>	4 <sup>2</sup>
H	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	h	3 <sup>5</sup>	4 <sup>2</sup>
I	0 <sup>7</sup>	0 <sup>7</sup>	1 <sup>1</sup>	1 <sup>2</sup>	i	1 <sup>1</sup>	1 <sup>1</sup>
J	3 <sup>0</sup>	3 <sup>6</sup>	4 <sup>0</sup>	5 <sup>0</sup>	j	2 <sup>0</sup>	2 <sup>2</sup>
K	3 <sup>2</sup>	4 <sup>1</sup>	4 <sup>3</sup>	5 <sup>4</sup>	k	3 <sup>5</sup>	4 <sup>2</sup>
L	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	l	1 <sup>1</sup>	1 <sup>1</sup>
M	3 <sup>7</sup>	4 <sup>5</sup>	5 <sup>1</sup>	6 <sup>1</sup>	m	6 <sup>0</sup>	7 <sup>0</sup>
N	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	n	3 <sup>5</sup>	4 <sup>2</sup>
O	3 <sup>4</sup>	4 <sup>2</sup>	4 <sup>5</sup>	5 <sup>5</sup>	o	3 <sup>6</sup>	4 <sup>3</sup>
P	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	p	3 <sup>5</sup>	4 <sup>2</sup>
Q	3 <sup>4</sup>	4 <sup>2</sup>	4 <sup>5</sup>	5 <sup>5</sup>	q	3 <sup>5</sup>	4 <sup>2</sup>
R	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	r	2 <sup>6</sup>	3 <sup>2</sup>
S	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	s	3 <sup>6</sup>	4 <sup>2</sup>
T	3 <sup>0</sup>	3 <sup>5</sup>	4 <sup>0</sup>	4 <sup>7</sup>	t	2 <sup>7</sup>	3 <sup>2</sup>
U	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	u	3 <sup>5</sup>	4 <sup>2</sup>
V	3 <sup>5</sup>	4 <sup>4</sup>	4 <sup>7</sup>	6 <sup>0</sup>	v	4 <sup>2</sup>	4 <sup>7</sup>
W	4 <sup>4</sup>	5 <sup>2</sup>	6 <sup>0</sup>	7 <sup>0</sup>	w	5 <sup>5</sup>	6 <sup>4</sup>
X	3 <sup>4</sup>	4 <sup>0</sup>	4 <sup>5</sup>	5 <sup>3</sup>	x	4 <sup>4</sup>	5 <sup>1</sup>
Y	3 <sup>6</sup>	5 <sup>0</sup>	5 <sup>0</sup>	6 <sup>6</sup>	y	4 <sup>6</sup>	5 <sup>3</sup>
Z	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>	z	3 <sup>6</sup>	4 <sup>3</sup>

NUMBER	6 INCH SERIES		8 INCH SERIES	
	C	D	C	D
1	1 <sup>2</sup>	1 <sup>4</sup>	1 <sup>5</sup>	2 <sup>0</sup>
2	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
3	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
4	3 <sup>5</sup>	4 <sup>3</sup>	4 <sup>7</sup>	5 <sup>7</sup>
5	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
6	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
7	3 <sup>2</sup>	4 <sup>0</sup>	4 <sup>3</sup>	5 <sup>3</sup>
8	3 <sup>2</sup>	4		

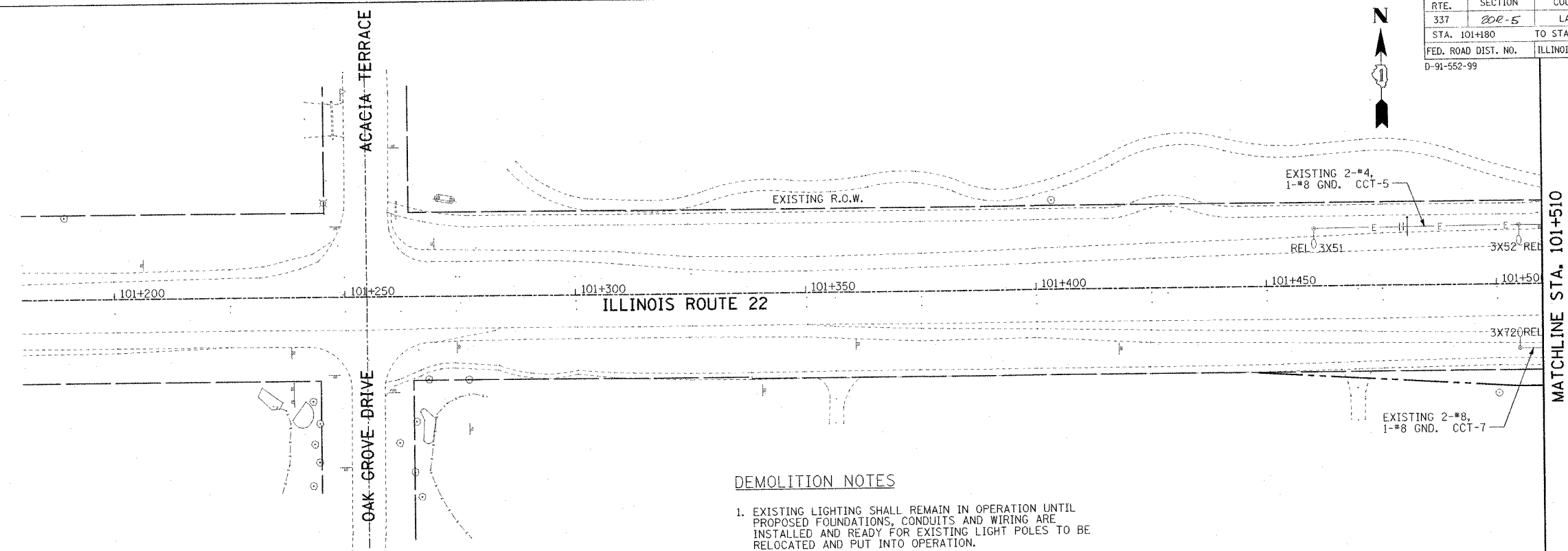


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	202-5	LAKE	522	396
STA. 101+180	TO STA. 101+510			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
D-91-552-99		CONTRACT #60881		



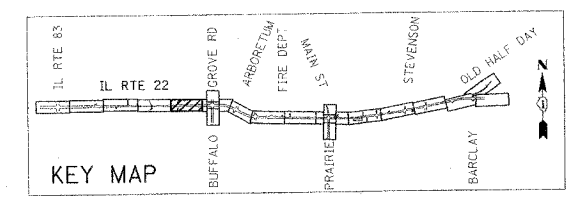
FINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
NO.		
AREAS CHECKED		

ORIGINAL SURVEYED	BY	DATE
SURVEY PLOTTED		
NOTE BOOK		
NO.		
AREAS CHECKED		



**DEMOLITION NOTES**

1. EXISTING LIGHTING SHALL REMAIN IN OPERATION UNTIL PROPOSED FOUNDATIONS, CONDUITS AND WIRING ARE INSTALLED AND READY FOR EXISTING LIGHT POLES TO BE RELOCATED AND PUT INTO OPERATION.
2. CONTRACTOR SHALL PROTECT EXISTING LIGHT POLES AND FIXTURES DURING CONSTRUCTION. ANY UNITS DAMAGED DURING CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AND THE ENGINEER.
3. ONCE LIGHT POLES AND FIXTURES ARE COMPLETELY RELOCATED, CONTRACTOR SHALL REMOVE EXISTING CONDUITS, FOUNDATIONS, WIRING AND ASSOCIATED ACCESSORIES. AREA SHALL BE RESTORED AS REQUIRED.



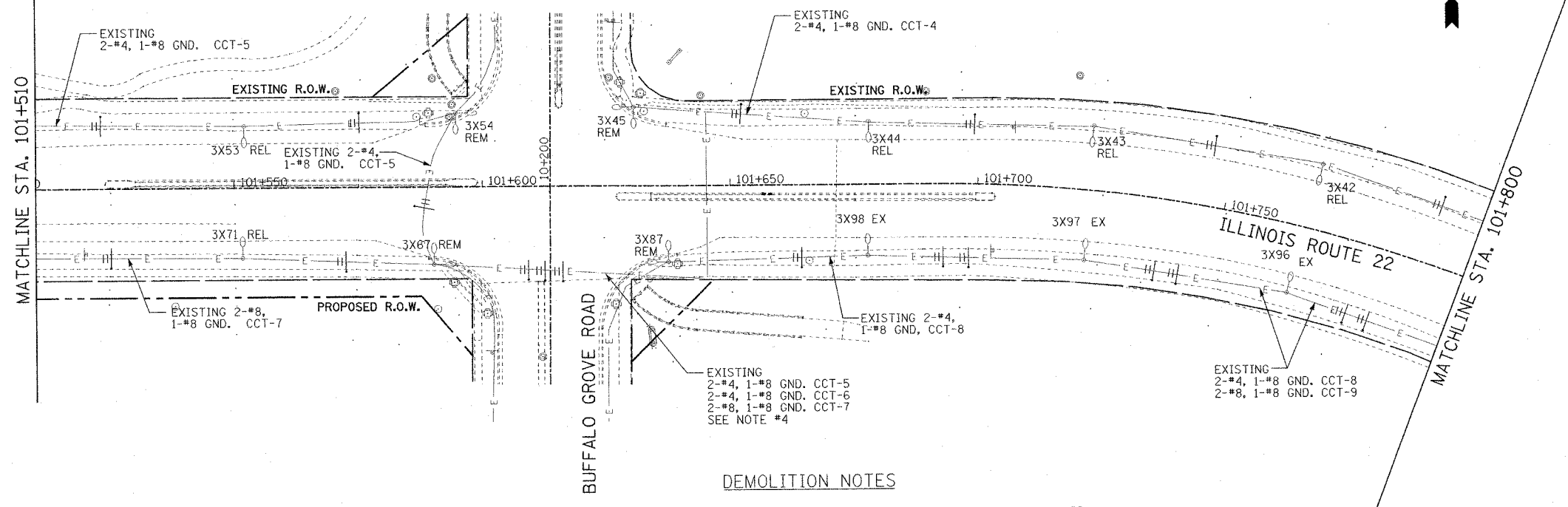
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION IL RTE 22 (FAP 337) IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE) LIGHTING DEMOLITION PLAN (1 OF 4) OAK GROVE DRIVE TO STA. 101+510
NAME	DATE	
		SCALE: 1:500
		DATE: 03-22-2004
		DRAWN BY: CMW
		CHECKED BY: MAR



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	662	397
STA. 101+510		TO STA. 101+800		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
D-91-552-99		CONTRACT #60881		

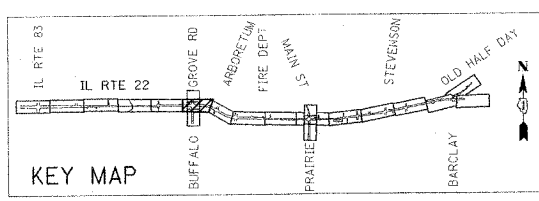
DATE	BY
FINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE AREAS CHECKED	
NO.	

DATE	BY
ORIGINAL SURVEY PLOTTED	
NOTE BOOK TEMPLATE AREAS CHECKED	
NO.	



**DEMOLITION NOTES**

- EXISTING LIGHTING SHALL REMAIN IN OPERATION UNTIL PROPOSED FOUNDATIONS, CONDUITS AND WIRING ARE INSTALLED AND READY FOR EXISTING LIGHT POLES TO BE RELOCATED AND PUT INTO OPERATION.
- CONTRACTOR SHALL PROTECT EXISTING LIGHT POLES AND FIXTURES DURING CONSTRUCTION. ANY UNITS DAMAGED DURING CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AND THE ENGINEER.
- ONCE LIGHT POLES AND FIXTURES ARE COMPLETELY RELOCATED, CONTRACTOR SHALL REMOVE EXISTING CONDUITS, FOUNDATIONS, WIRING AND ASSOCIATED ACCESSORIES. AREA SHALL BE RESTORED AS REQUIRED.
- EXISTING CIRCUITS 5, 6 AND 7, HOMERUN WIRING TO LIGHTING CONTROLLER #3. CONTRACTOR SHALL INTERCEPT EXISTING CONDUIT AT SOUTHEAST CORNER OF INTERSECTION. EXISTING CIRCUIT #7, 2-#8 PHASE WIRING TO BE REMOVED AND REPLACED AS SHOWN ON SHEET 2 OF 10 AND 10 OF 10.

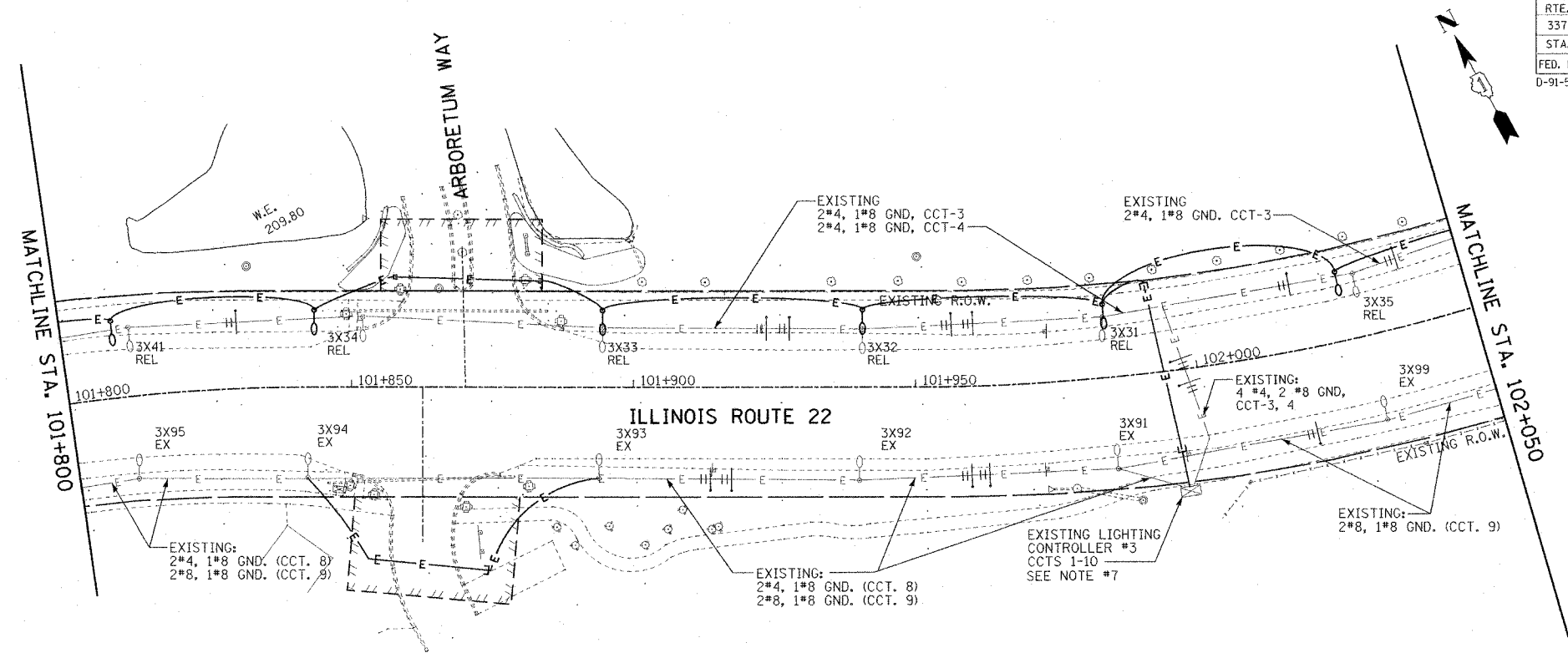


REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION IL RTE 22 (FAP 337) IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE) LIGHTING DEMOLITION PLAN (2 OF 4) STA. 101+510 TO STA. 101+800
NAME	DATE	
		SCALE: 1:500
		DATE: 03-22-2004
		DRAWN BY: CMW
		CHECKED BY: MAR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-5	LAKE	562	398
STA. 101+800		TO STA. 102+050		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
D-91-552-99		CONTRACT #60881		

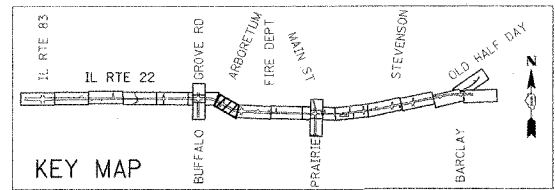
FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
TEMPLATE		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
TEMPLATE		
AREAS CHECKED		
NO.		



**DEMOLITION NOTES**

1. EXISTING LIGHTING SHALL REMAIN IN OPERATION UNTIL PROPOSED FOUNDATIONS, CONDUITS AND WIRING ARE INSTALLED AND READY FOR EXISTING LIGHT POLES TO BE RELOCATED AND PUT INTO OPERATION.
2. CONTRACTOR SHALL PROTECT EXISTING LIGHT POLES AND FIXTURES DURING CONSTRUCTION. ANY UNITS DAMAGED DURING CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AND THE ENGINEER.
3. ONCE LIGHT POLES AND FIXTURES ARE COMPLETELY RELOCATED, CONTRACTOR SHALL REMOVE EXISTING CONDUITS, FOUNDATIONS, WIRING AND ASSOCIATED ACCESSORIES. AREA SHALL BE RESTORED AS REQUIRED.



REVISIONS	
NAME	DATE

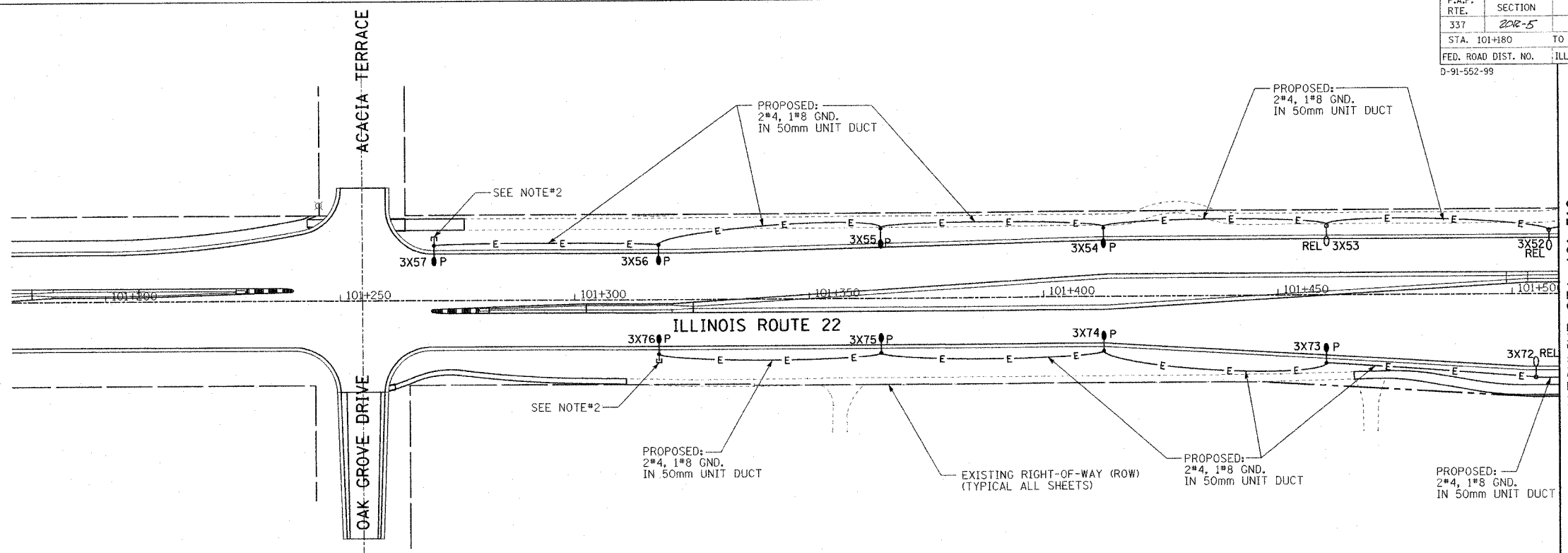
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 LIGHTING DEMOLITION PLAN (3 OF 4)  
 STA. 101+800 TO STA. 102+050

SCALE: 1:500  
 DATE: 03-22-2004  
 DRAWN BY: CMW  
 CHECKED BY: MAR



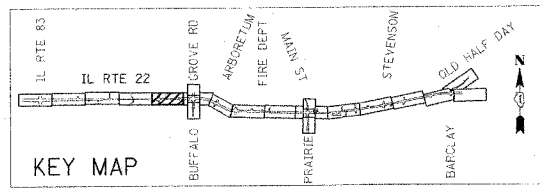
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	202-5	LAKE	562	400
STA. 101+180		TO STA. 101+510		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
D-91-552-99		CONTRACT #60881		

FINAL SURVEY	BY	DATE
SCOTTED		
NOTE BOOK		
TEMPLATE		
AREAS CHECKED		
NO.		



- NOTES:
1. EXACT LOCATIONS OF RELOCATED AND PROPOSED POLES AND CONDUIT/CABLE ROUTINGS SHALL BE COORDINATED WITH UNDERGROUND UTILITIES, OWNER AND ENGINEER. LOCATIONS AND ROUTINGS SHOWN ON PLANS ARE APPROXIMATE.
  2. PROVIDE 1-50mm CONDUIT STUBBED OUT 1.0m BEYOND LIGHT POLE FOUNDATION FOR FUTURE USE. CAP CONDUIT AT END.

ORIGINAL SURVEY	BY	DATE
FLOTTED		
NOTE BOOK		
TEMPLATE		
AREAS CHECKED		
NO.		



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 22 (FAP 337)  
 IL RTE 83 TO US 45 / IL 21 (MILWAUKEE AVE)  
 PROPOSED LIGHTING PLAN (1 OF 10)  
 OAK GROVE DRIVE TO STA. 101+510  
 SCALE: 1:500  
 DATE: 03-22-2004  
 DRAWN BY: CMW  
 CHECKED BY: MAR