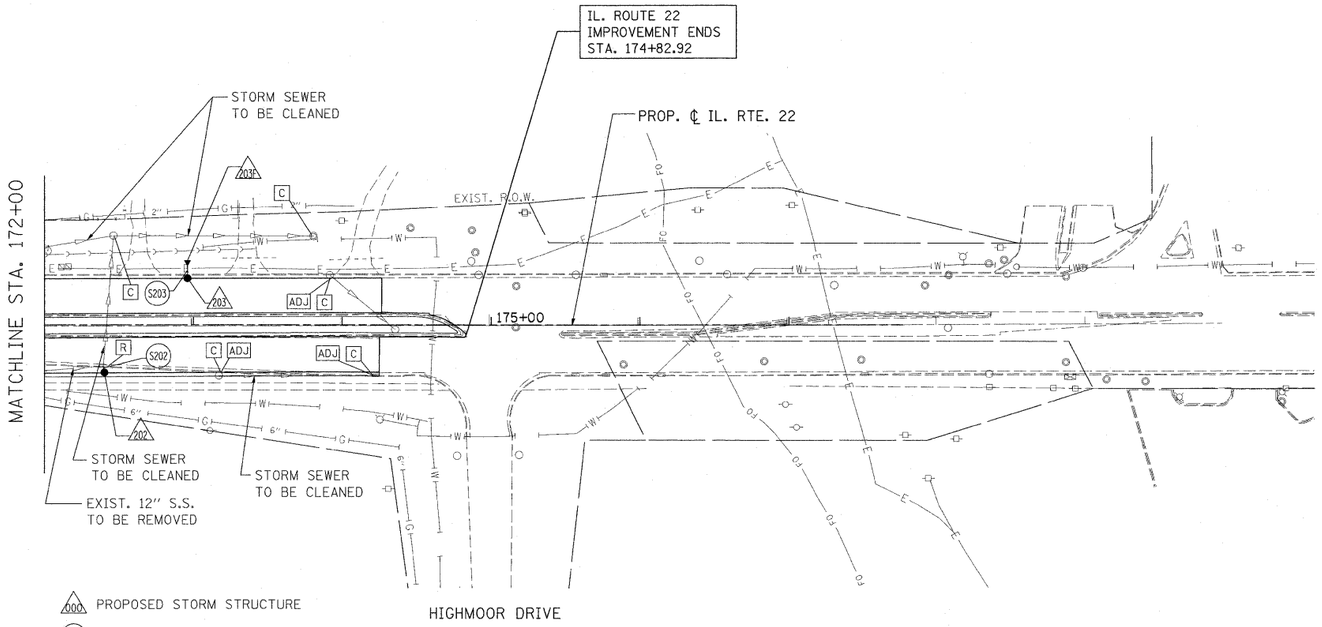


PROPOSED STORM STRUCTURE

PROPOSED STORM SEWER

R EXISTING STRUCTURE TO BE REMOVED

AB EXISTING STORM SEWER TO BE ABANDONED

ADJ EXISTING STRUCTURE TO BE ADJUSTED

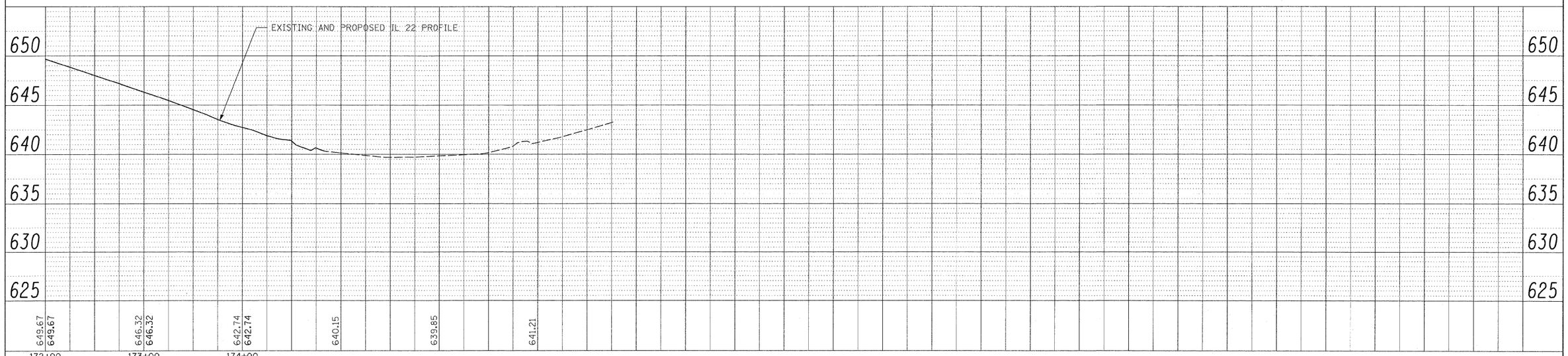
C EXISTING STRUCTURE TO BE CLEANED

LEGEND:

- PROPOSED MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED STORM SEWER
- PROPOSED FLARED END SECTION
- EXISTING MANHOLE
- EXISTING CATCH BASIN
- EXISTING INLET
- EXISTING FLARED END SECTION
- EXISTING STORM SEWER
- EXISTING PIPE CULVERT

N

NOTE:
STORM WATER STRUCTURE OFFSET LOCATIONS GIVEN ON THE DETAILED PLANS ARE TO THE FOLLOWING POINTS: A) FOR STRUCTURES FALLING IN THE CURB LINE - TO THE EDGE OF PAVEMENT: B) FOR ALL OTHER STRUCTURE LOCATIONS - TO THE CENTER OF THE STRUCTURE.



PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, CROSS SECTIONS CHECKED, B.M. NOTED, STRUCTURE NO'S/ATNS CHKD, NOTE BOOK, NO., BY, DATE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

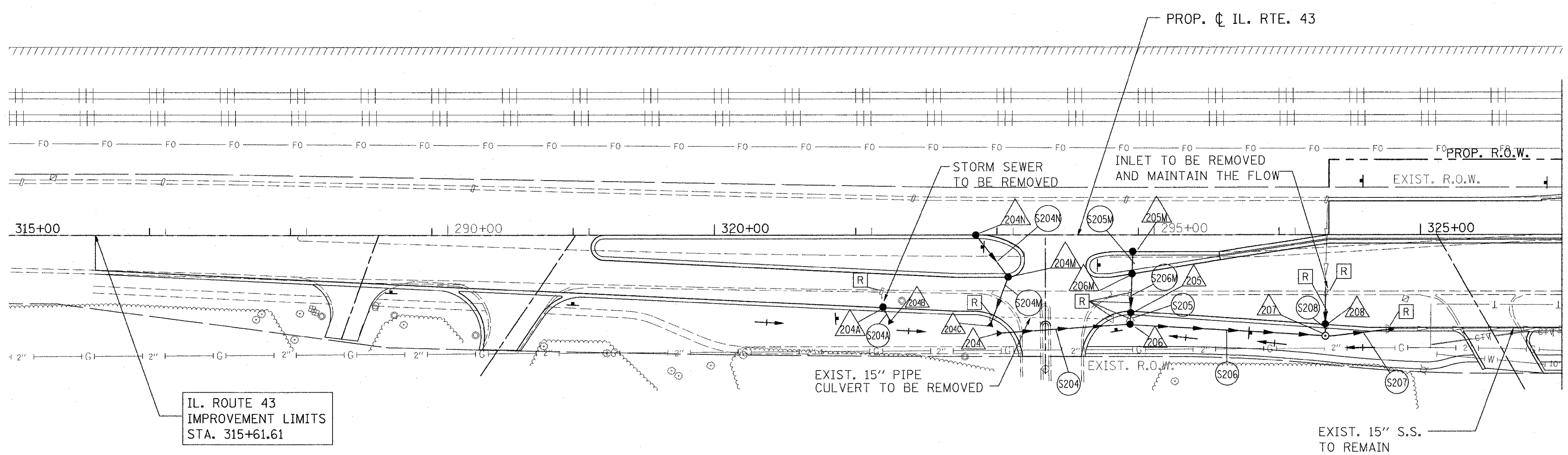
IL. ROUTE 22
DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 101 OF 232 SHEETS | STA. 172+00 TO STA. 174+26.76

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	101
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		

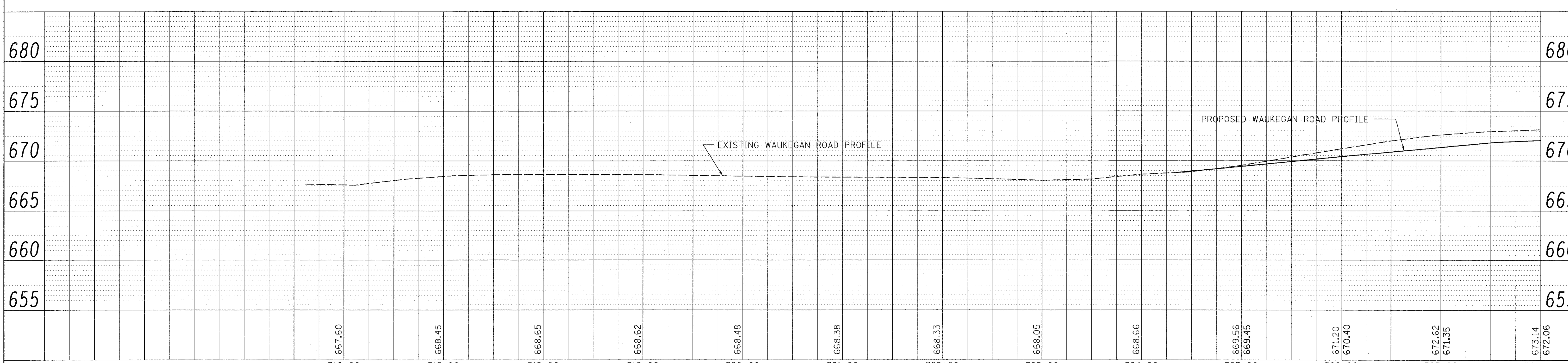
LEGEND:

- ⊙ PROPOSED MANHOLE
- ● PROPOSED CATCH BASIN
- PROPOSED STORM SEWER
- ▶ PROPOSED FLARED END SECTION
- EXISTING MANHOLE
- ○ EXISTING CATCH BASIN
- EXISTING INLET
- ▷ EXISTING FLARED END SECTION
- EXISTING STORM SEWER
- ------ EXISTING PIPE CULVERT



- △ PROPOSED STORM STRUCTURE
- (0000) PROPOSED STORM SEWER
- [R] EXISTING STRUCTURE TO BE REMOVED
- [AB] EXISTING STORM SEWER TO BE ABANDONED
- [ADJ] EXISTING STRUCTURE TO BE ADJUSTED
- [C] EXISTING STRUCTURE TO BE CLEANED

NOTE:
STORM WATER STRUCTURE OFFSET LOCATIONS GIVEN ON THE DETAILED PLANS ARE TO THE FOLLOWING POINTS: A) FOR STRUCTURES FALLING IN THE CURB LINE - TO THE EDGE OF PAVEMENT; B) FOR ALL OTHER STRUCTURE LOCATIONS - TO THE CENTER OF THE STRUCTURE.



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	PLOT SCALE = $SCALE$	CHECKED - JP	REVISED -
	PLOT DATE = 5/15/2010	DATE 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WAUKEGAN ROAD
DRAINAGE PLAN AND PROFILE

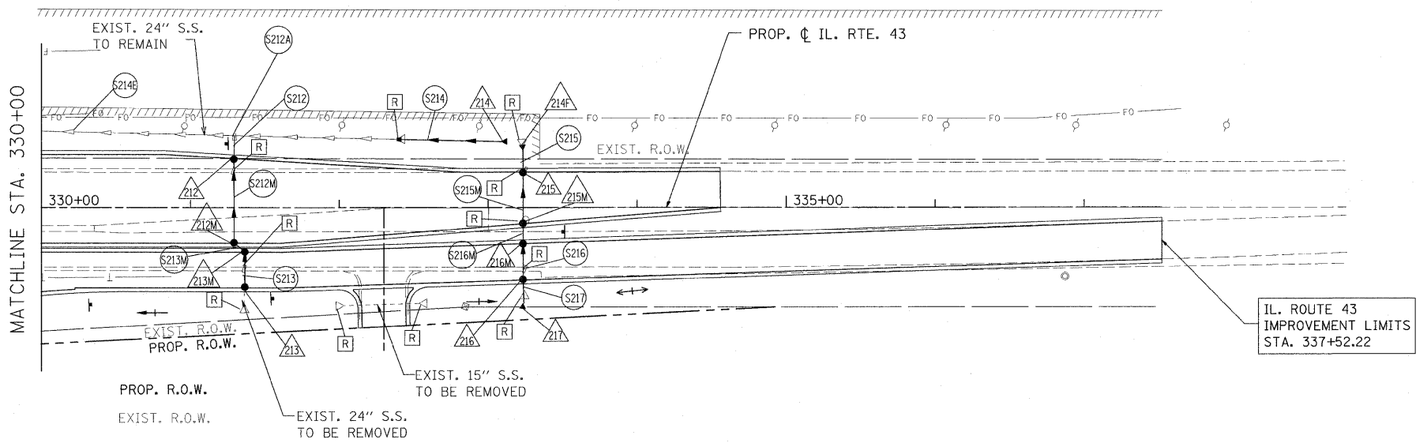
SCALE: 1"=50' | SHEET NO. 102 OF 232 SHEETS | STA. 315+61.61 TO STA. 326+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	102

CONTRACT NO. 60860

ILLINOIS FED. AID PROJECT

LEGEND:
- PROPOSED MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED STORM SEWER
- PROPOSED FLARED END SECTION
- EXISTING MANHOLE
- EXISTING CATCH BASIN
- EXISTING INLET
- EXISTING FLARED END SECTION
- EXISTING STORM SEWER
- EXISTING PIPE CULVERT



000 PROPOSED STORM STRUCTURE

(0000) PROPOSED STORM SEWER

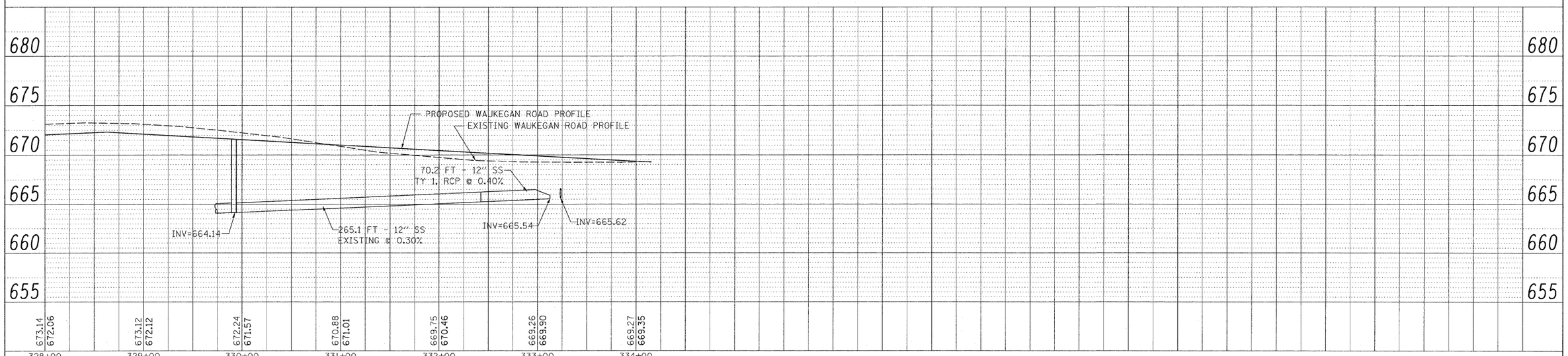
[R] EXISTING STRUCTURE TO BE REMOVED

[AB] EXISTING STORM SEWER TO BE ABANDONED

[ADJ] EXISTING STRUCTURE TO BE ADJUSTED

[C] EXISTING STRUCTURE TO BE CLEANED

NOTE:
STORM WATER STRUCTURE OFFSET LOCATIONS GIVEN ON THE DETAILED PLANS ARE TO THE FOLLOWING POINTS: A) FOR STRUCTURES FALLING IN THE CURB LINE - TO THE EDGE OF PAVEMENT: B) FOR ALL OTHER STRUCTURE LOCATIONS - TO THE CENTER OF THE STRUCTURE.



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	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WAUKEGAN ROAD
DRAINAGE PLAN AND PROFILE

SCALE: 1"=50' | SHEET NO. 103 OF 232 SHEETS | STA. 330+00.00 TO STA. 337+52.22

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	103
		CONTRACT NO. 60680		
	ILLINOIS	FED. AID PROJECT		

PIPE TABLE: STATION 45+50.89 TO STATION 52+00

PIPE NO.	PIPE LOCATION		DESCRIPTION	DIA. (IN)	L (FT)	S (%)	TRENCH BACKFILL VOL. (CY)
	FROM STR.	TO STR.					
S1	1	2	SS TY 1 CL A	12	63.0	1.00	7.8
S1A	1A	2A	SS TY 1 CL A	12	63.0	1.00	7.8
S1B	1B	2B	SS TY 1 CL A	12	63.0	1.00	7.8
S2	2	3	SS (WATERMAIN REQUIREMENTS)	12	26.3	1.00	0.0
S2A	2A	3A	SS (WATERMAIN REQUIREMENTS)	12	26.3	1.00	0.0
S2B	2B	3B	SS (WATERMAIN REQUIREMENTS)	12	26.3	1.00	0.0
S4	4	5M	SS TY 1 CL A	12	27.2	1.00	3.9
S5	5	7	SS TY 1 CL A	12	72.7	1.00	10.2
S5D	5D	5	SS TY 1 CL A	12	14.0	0.60	0.0
S5M	5M	S5N	SS TY 1 CL A	12	41.3	0.50	8.0
S5N	S5M	S6	RCP TEE P12 R12	-	-	-	-
S6	6	5	SS TY 2 CL A	12	60.6	1.00	3.0
S7	7	8	SS TY 1 CL A	36	52.27	0.27	68.5
S8	8	9	SS TY 2 CL A	30	21.91	0.27	68.1
S10	10	9	SS TY 2 CL A	27	77.6	1.00	96.5
S10A	10A	10	SS TY 1 CL A	27	20.0	1.55	0.0
S12	12	13	SS TY 2 CL A	12	9.7	1.00	2.4
S12A	12A	12M	SS TY 2 CL A	12	11.5	1.00	2.9
S12M	12M	16	SS TY 2 CL A	12	37.6	1.00	5.0
S13	13	12M	SS TY 2 CL A	12	19.7	1.00	2.7
S14	14	13	SS TY 2 CL A	12	10.2	1.00	137.6
S15	15	16	SS TY 2 CL A	12	9.1	1.00	3.3
S16	16	S16A	SS TY 2 CL A	12	4.8	1.00	1.8
S16A	S16	S20	RCP TEE P36 R12	-	-	-	-

PIPE TABLE: STATION 52+00 TO STATION 67+00

PIPE NO.	PIPE LOCATION		DESCRIPTION	DIA. (IN)	L (FT)	S (%)	TRENCH BACKFILL VOL. (CY)
	FROM STR.	TO STR.					
S17	17	17M	SS TY 2 CL A	12	13.1	1.00	4.6
S17A	S17M	S20	RCP TEE P24 R12	-	-	-	-
S17M	17M	S20	SS TY 2 CL A	12	36.1	1.00	12.8
S18	18	17	SS TY 2 CL A	12	51.8	1.00	15.2
S18D	18D	18	SS TY 2 CL A	12	22.1	1.00	4.3
S19	19	20	SS TY 2 CL A	12	8.7	1.00	2.9
S20	20	7	SS TY 2 CL A	36	308.4	0.32	0.0
S21	21	S23	SS TY 2 CL A	12	6.9	1.00	4.6
S21A	S21	S23	RCP TEE P21 R12	-	-	-	-
S21M	21M	21	SS TY 2 CL A	12	19.7	1.00	13.7
S22	22	22M	SS TY 2 CL A	12	19.7	1.00	7.5
S22D	22D	22	SS TY 2 CL A	12	47.6	1.00	9.9
S22M	22M	21M	SS TY 2 CL A	12	14.1	1.00	9.9
S23	23	20	SS (WATERMAIN REQUIREMENTS)	36	340.1	0.33	0.0
S24	24	23	SS TY 2 CL A	12	15.3	1.00	4.4
S24M	24M	24	SS TY 2 CL A	12	19.7	1.00	17.7
S25	25	25M	SS TY 2 CL A	12	20.7	1.00	17.3
S25M	25M	24M	SS TY 2 CL A	12	14.1	1.00	12.8
S26	26	26M	SS TY 1 CL A	12	20.7	1.00	1.3
S26M	26M	27M	SS TY 1 CL A	12	14.1	1.00	1.3
S27	27	28	SS (WATERMAIN REQUIREMENTS)	12	170.3	1.00	30.2
S27M	27M	27	SS TY 1 CL A	12	19.7	1.00	1.3
S28	28	32	SS (WATERMAIN REQUIREMENTS)	18	208.8	0.80	146.9
S28J	28J	S28	SS (WATERMAIN REQUIREMENTS)	12	17.2	1.00	5.5
S28K	S28J	S28	RCP TEE P18 R12	-	-	-	-
S30	30	S28	SS TY 1 CL A	12	85.9	1.00	9.9
S30A	S30	S28	RCP TEE P18 R12	-	-	-	-
S30J	30J	34	SS TY 2 CL A	12	84.0	1.00	25.6
S31	31	32	SS (WATERMAIN REQUIREMENTS)	12	8.7	1.00	6.0
S32	32	35A	SS (WATERMAIN REQUIREMENTS)	18	152.6	0.80	181.0
S33	33	S32	SS TY 2 CL A	12	7.5	1.00	7.2
S33A	33A	35M	SS TY 2 CL A	12	6.9	1.00	6.8
S33B	S33	S32	RCP TEE P18 R12	-	-	-	-
S34	34	S35	SS TY 2 CL A	12	39.1	1.00	33.2
S34A	S34	S35	RCP TEE P12 R12	-	-	-	-
S35	35	35M	SS TY 2 CL A	12	50.4	1.00	39.2
S35A	35A	38	SS (WATERMAIN REQUIREMENTS)	18	248.2	0.80	345.8
S35M	35M	35A	SS TY 2 CL A	12	31.3	1.00	29.4
S36	36	36A	SS TY 2 CL A	12	28.5	1.00	30.6
S36A	36A	37	SS TY 2 CL A	12	32.2	1.00	36.4
S36M	36M	36A	SS TY 2 CL A	12	14.4	1.00	16.2
S37	37	S35A	SS TY 2 CL A	12	7.2	1.00	8.2
S37A	S37	S35A	RCP TEE P18 R12	-	-	-	-

DRAINAGE STRUCTURE TABLE: STA. 45+50.89 TO STA. 52+00

NO.	STATION	OFFSET (FT)	STRUCTURE TYPE/SIZE				F&G	INVERT				RIM ELEV (FT)
			MH	CB	IN	OTHER		(N)	(S)	(E)	(W)	
1	46+00.00	33.00 LT		C			24		684.24			687.74
1A	47+00.00	33.00 LT		C			24		683.65			687.15
1B	48+00.00	33.00 LT		C			24		683.06			686.56
2	46+00.00	33.00 RT		A 4'			24	683.61	683.61			687.74
2A	47+00.00	33.00 RT		A 4'			24	683.02	683.02			687.15
2B	48+00.00	33.00 RT		A 4'			24	682.43	682.43			686.56
3	46+00.00	58.10 RT				PRC FES 12"			684.00			
3A	47+00.00	59.30 RT				PRC FES 12"			683.00			
3B	48+00.00	59.00 RT				PRC FES 12"			683.00			
4	48+15.85	3.31 LT		C			11 V			682.58		686.65
5	48+91.31	33.00 LT		A 4'			24	682.17	681.92	678.64		685.99
5D	48+83.96	47.93 LT		C			8		682.26			684.84
5M	48+45.37	9.03 LT		A 4'			11 V			682.30	682.30	686.73
6	48+84.73	33.00 RT		C			24	682.53				686.03
6E	49+68.60	57.19 LT				EX. INLET TO BE ADJ.				EXIST.		686.59
7	49+63.77	38.91 LT	A 5'				1 CL		677.91	677.91	677.91	685.61
8	49+64.13	18.36 RT	A 5'			17" RESTRICTOR	1 CL	677.77	677.77			686.11
9	49+65.65	44.38 RT	A 5'				1 CL	677.71	677.71	677.71	677.71	685.17
10	49+97.93	30.18 LT	A 5'				1 CL	682.42	682.42			685.36
10A	50+03.69	49.31 LT				PRC FES 27"			682.73			
12	51+01.65	33.00 RT		C			24			681.42		684.92
12A	51+01.65	3.11 RT		C			11 V			681.65		685.15
12M	51+14.77	9.00 RT		A 4'			11 V	680.94	680.94		681.54	685.38
13	51+14.77	33.00 RT		A 4'			24	681.14		681.14	681.27	684.91
14	51+26.96	39.90 RT		C			8				681.24	684.74
15	51+01.65	33.00 LT		C			24			681.42		684.92
16	51+14.77	33.00 LT		A 4'			24	680.56	680.56		681.33	684.91

DRAINAGE STRUCTURE TABLE: STA. 52+00 TO STA. 67+00

NO.	STATION	OFFSET (FT)	STRUCTURE TYPE/SIZE				F&G	INVERT				RIM ELEV (FT)
			MH	CB	IN	OTHER		(N)	(S)	(E)	(W)	
17	52+35.79	0.76 RT		A 4'			11 V			679.99	679.82	685.65
17M	52+19.39	3.85 LT		A 4'			11 V	679.69		679.69		685.66
18	52+81.73	33.00 RT		A 4'			24			680.67	680.51	685.61
18D	53+04.69	42.55 RT		C			8				680.89	684.82
19	53+01.41	33.00 LT		C			24	679.71				685.71
20	53+10.12	40.32 LT	A 5'				1 CL		679.62	679.13	679.13	685.09
21	55+17.95	33.00 LT		A 4'			24	680.43	680.43			686.84
21M	55+17.95	9.00 LT		A 4'			24	680.63	680.63			687.31
22	55+17.95	33.00 RT		A 4'			24	680.97			680.97	686.84
22D	54+68.73	44.17 RT		C			8			681.44		684.70
22M	55+17.95	9.00 RT		A 4'			24	680.77	680.77			687.28
23	56+35.00	41.86 LT	A 4'				1 CL		683.87		680.44	687.12
24	56+52.46	33.00 LT		A 4'			24	684.02	684.02			688.06
24M	56+52.46	9.00 LT		A 4'			24	684.21	684.21			688.54
25	56+52.46	33.00 RT		C			24	684.56				688.06
25M	56+52.46	9.00 RT		A 4'			24	684.35	684.35			688.54
26	59+01.80	33.00 LT		C			24		690.78			692.97
26M	59+01.80	9.00 LT		A 4'			24	690.43	690.43			693.45
27	59+01.80	33.00 RT		A 4'			24	690.09		690.09		692.97
27M	59+01.80	9.00 RT		A 4'			24	690.28	690.28			693.45
28	60+75.46	43.89 RT	A 4'				1 CL			688.38	688.38	694.83
28J	60+98.64	62.50 RT		C			24	688.62				694.27
30	61+24.90	43.47 LT		C			8		689.07			692.81
30J	63+14.82	47.41 LT		C			24			687.37		693.99
31	62+86.54	49.56 RT			A		8	688.54				692.04
32	62+88.94	38.67 RT	A 5'				1 CL		688.45	686.51	686.68	694.37
33	64+00.49	33.00 RT		C			24		685.95			693.97
33A	64+52.98	3.68 LT		C			11 V				685.88	694.07
34	64+00.49	33.00 LT		A 4'			24			686.53	686.53	693.97
35	64+40.77	52.25 LT		C			8		686.32			689.80
35A	64+42.59	41.06 RT	A 5'				1 CL	685.50		684.93	685.25	693.13
35M	64+43.14	2.93 RT		A 4'			11 V	685.82	685.82	685.82		694.11
36	66+49.83	35.06 LT		C			24		684.19			692.67
36A	66+49.83	3.61 LT		A 4'			11 V	683.91	683.91	683.91		692.94
36M	66+66.24	9.00 LT		C			24				684.05	694.19
37	66+49.83	33.00 RT		A 4'			24	683.59	683.59			692.72
38	66+99.05	41.07 RT	A 4'				1 CL			682.66	682.91	692.58

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DESIGNED - LP | DRAWN - DC | CHECKED - JP | DATE - 05/14/2010

REVISED - | REVISED - | REVISED - | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 22
DRAINAGE TABLES

SCALE: NTS | SHEET NO. 104 OF 232 SHEETS | STA. 45+50.89 TO STA. 52+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	104
		CONTRACT NO. 60860		
	ILLINOIS FED. AID PROJECT			

PIPE TABLE: STATION 67+00 TO STATION 82+00

PIPE NO.	PIPE LOCATION		DESCRIPTION	DIA. (IN)	L (FT)	S (%)	TRENCH BACKFILL VOL. (CY)
	FROM STR.	TO STR.					
S38	38	41	SS (WATERMAIN REQUIREMENTS)	21	324.1	0.80	561.4
S39	39	39M	SS TY 2 CL A	12	20.7	1.00	25.8
S39M	39M	40M	SS TY 2 CL A	12	14.1	1.00	12.9
S40	40	S38	SS TY 2 CL A	12	7.2	1.00	5.1
S40A	S40	S38	RCP TEE P21 R12	-	-	-	-
S40M	40M	40	SS TY 2 CL A	12	19.7	1.00	25.6
S41	41	44	SS (WATERMAIN REQUIREMENTS)	21	224.1	0.80	572.6
S42	42	S41	SS TY 2 CL A	12	7.2	1.00	5.5
S42A	S42	S41	RCP TEE P21 R12	-	-	-	-
S42M	42M	42	SS TY 2 CL A	12	19.7	1.00	27.7
S43	43	43M	SS TY 2 CL A	12	19.7	1.00	26.6
S43D	43D	43	SS TY 2 CL A	12	14.6	1.00	12.7
S43M	43M	42M	SS TY 2 CL A	12	14.1	1.00	14.0
S44	44	50	SS (WATERMAIN REQUIREMENTS)	21	346.1	0.80	392.4
S45	45	S44	SS TY 2 CL A	12	7.2	1.00	4.8
S45A	S45	S44	RCP TEE P21 R12	-	-	-	-
S45M	45M	45	SS TY 2 CL A	12	27.9	1.00	34.5
S46	46	46M	SS TY 2 CL A	12	19.7	1.00	23.7
S46D	46D	46	SS TY 2 CL A	12	6.7	1.00	4.1
S46M	46M	45M	SS TY 2 CL A	12	5.9	1.00	7.3
S47	47	49M	SS TY 2 CL A	12	40.1	1.00	43.3
S48	48	49	SS TY 2 CL A	12	9.2	1.00	2.6
S49	49	51	SS TY 2 CL A	15	91.2	1.00	112.0
S49A	49A	52	SS TY 2 CL A	12	69.7	1.00	66.2
S49M	49M	S49	SS TY 2 CL A	12	37.4	1.00	40.7
S49N	S49M	S49	RCP TEE P15 R12	-	-	-	-
S50	50	52	SS (WATERMAIN REQUIREMENTS)	30	116.5	0.80	173.2
S50F	50E	51T	SS TY 1 CL A	12	39.5	1.00	0.0
S51	51	50	SS TY 2 CL A	15	4.8	1.00	5.4
S51A	51A	S50	SS (WATERMAIN REQUIREMENTS)	12	15.1	1.00	14.1
S51B	51B	52	SS (WATERMAIN REQUIREMENTS)	12	19.8	1.00	2.4
S51D	S51A	S50	RCP TEE P30 R12	-	-	-	-
S51T	51T	51B	SS TY 1 CL A	12	33.0	1.00	1.3
S52	52	56	SS TY 2 CL A	30	206.7	0.80	264.2
S53	53	55M	SS TY 2 CL A	12	38.7	1.00	34.8
S54	54	55M	SS TY 2 CL A	12	33.5	1.00	29.4
S55	55	S52	SS TY 2 CL A	12	3.3	1.00	3.0
S55A	S55	S52	RCP TEE P30 R12	-	-	-	-
S55M	55M	55	SS TY 2 CL A	12	19.7	1.00	0.0
S56	56	60	SS TY 2 CL A	36	323.2	0.70	412.5
S57	57	S56	SS TY 2 CL A	12	13.8	1.00	11.8
S57A	S57	S56	RCP TEE P36 R12	-	-	-	-
S58	58	S56	SS TY 2 CL A	12	3.0	1.00	2.4
S58A	S58	S56	RCP TEE P36 R12	-	-	-	-
S58M	58M	58	SS TY 2 CL A	12	19.7	1.00	16.5
S59	59	59M	SS TY 2 CL A	12	22.0	1.00	17.1
S59D	59D	59	SS TY 1 CL A	12	44.3	1.00	0.0
S59M	59M	58M	SS TY 2 CL A	12	11.8	1.00	6.9

DRAINAGE STRUCTURE TABLE: 67+00 TO STA. 82+00

NO.	STATION	OFFSET (FT)	STRUCTURE TYPE/SIZE				F&G	INVERT				RIM ELEV (FT)
			MH	CB	IN	OTHER		(N)	(S)	(E)	(W)	
39	68+99.18	33.00 LT		C			24		682.05			691.47
39M	68+99.18	9.00 LT		A 4'			24	681.84	681.84			691.94
40	68+99.18	33.00 RT		A 4'			24	681.50	681.50			691.47
40M	68+99.18	9.00 RT		A 4'			24	681.70	681.70			691.94
41	70+27.13	41.07 RT	A 4'				1 CL			680.03	680.03	690.97
42	71+48.52	33.00 RT		A 4'			24	679.51	679.51			690.09
42M	71+48.52	9.00 RT		A 4'			24	679.70	679.70			690.56
43	71+48.52	33.00 LT		A 4'			24	680.04	680.04			690.09
43D	71+48.52	50.20 LT		C			8		680.19			689.06
43M	71+48.52	9.00 LT		A 4'			24	679.84	679.84			690.56
44	72+55.21	41.07 RT		A 4'			8			677.96	678.21	687.67
45	73+97.86	33.00 RT		A 4'			24	677.27	677.27			686.98
45M	73+97.86	0.60 RT		A 4'			11 V	677.54	677.54			687.25
46	73+97.86	33.00 LT		A 4'			24	677.80	677.80			686.98
46D	73+97.86	42.32 LT		C			8		677.87			686.00
46M	73+97.86	9.00 LT		A 4'			11 V	677.60	677.60			687.45
47	75+19.25	3.00 LT		C			11 V			676.89		685.64
48	76+13.11	63.45 LT		C			24				679.24	683.14
49	76+01.28	62.34 LT		A 4'			8		676.53	679.15		682.81
49A	77+22.67	33.00 LT		C			24		675.17			683.35
49M	75+61.91	9.00 LT		A 4'			11 V		676.49		676.49	685.32
50	76+01.28	41.07 RT		A 5'			8	675.57		674.21	675.20	684.47
50E	76+87.52	95.21 RT				EXIST. MANHOLE				679.69		682.30
51	76+01.28	33.00 RT		A 4'			24	675.62	675.62			684.33
51A	76+74.40	57.80 RT			A		24	679.48				682.48
51B	77+45.00	55.00 RT		A 4'			24	678.96	678.96			682.18
51T	77+31.29	99.12 RT		A 5'			8	679.29	EXIST.		679.29	684.12
52	77+22.49	39.92 RT	A 5'				1 CL	674.47	678.76	673.24	673.24	682.92
53	78+96.55	33.00 LT		C			24		673.20			680.49
54	79+32.64	3.00 RT		C			11 V				673.28	680.22
55	78+96.55	33.00 RT		A 4'			24	672.62	672.62			680.49
55M	78+96.55	9.00 RT		A 4'			11 V	672.81	672.81	672.81		680.96
56	79+29.36	36.87 RT	A 5'				1 CL			671.09	671.59	680.34
57	80+11.38	52.33 RT		C			8	671.64				677.98
58	80+99.96	33.00 RT		A 4'			24	670.91	670.91			678.15
58M	80+99.96	9.00 RT		A 4'			24	671.11	671.11			678.62
59	80+99.96	33.00 LT		A 4'			24		671.45		674.73	678.15
59D	80+54.03	43.96 LT			A		8			675.17		676.76
59M	80+99.96	6.67 LT		A 4'			11 V	671.23	671.23			678.57

FILE NAME = W:\ILRTE22\..2009 REVISIONS\CADD Sheets\D160860-sht-draintables.dgn	USER NAME = $USER$	DESIGNED - LP	REVISED -	
	DRAWN - DC	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - JP	REVISED -	
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 22
DRAINAGE TABLES

SCALE: NTS | SHEET NO. 105 OF 232 SHEETS | STA. 67+00.00 TO STA. 82+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	105
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		

PIPE TABLE: STATION 82+00 TO STATION 97+00

PIPE NO.	PIPE LOCATION FROM STR.	TO STR.	DESCRIPTION	DIA. (IN)	L (FT)	S (%)	TRENCH BACKFILL VOL. (CY)
S60	60	66	SS TY 2 CL A	36	323.2	0.60	384.8
S61	61	S60	SS TY 2 CL A	12	3.0	1.00	2.5
S61A	S61	S60	RCP TEE P36 R12	-	-	-	-
S61M	61M	61	SS TY 2 CL A	12	19.7	1.00	16.9
S62	62	62M	SS TY 2 CL A	12	20.7	1.00	16.5
S62M	62M	61M	SS TY 2 CL A	12	14.1	1.00	8.5
S63	63	S64	SS TY 2 CL A	12	28.2	1.00	19.0
S63A	S63	S64	RCP TEE P12 R12	-	-	-	-
S64	64	64M	SS TY 2 CL A	12	30.2	1.00	16.7
S64M	64M	66M	SS TY 2 CL A	12	14.1	1.00	8.0
S65	65	S60	SS TY 2 CL A	12	3.9	1.00	3.3
S65A	S65	S60	RCP TEE P36 R12	-	-	-	-
S66	66	68	SS TY 2 CL A	42	201.8	0.60	227.6
S66M	66M	66	SS TY 2 CL A	12	24.1	1.00	20.0
S67	67	67A	SS TY 1 CL A	12	15.0	1.00	0.0
S67A	67A	68	SS TY 1 CL A	12	18.3	1.00	3.0
S68	68	71	SS TY 2 CL A	42	116.5	0.60	150.0
S69	69	68	SS TY 1 CL A	12	6.1	1.00	1.3
S69M	69M	69	SS TY 1 CL A	12	19.7	1.00	2.6
S70	70	70M	SS TY 1 CL A	12	20.7	1.00	2.0
S70D	70D	71	SS TY 2 CL A	12	86.0	1.00	24.5
S70M	70M	69M	SS TY 1 CL A	12	18.4	1.00	1.3
S71	71	79	SS TY 2 CL A	42	323.2	0.50	549.7
S72	72	72M	SS TY 2 CL A	12	20.7	1.00	14.1
S72M	72M	73	SS TY 2 CL A	12	50.9	1.00	32.3
S73	73	S71	SS TY 2 CL A	12	3.0	1.00	2.2
S73A	S73	S71	RCP TEE P42 R12	-	-	-	-
S74	74	S72M	SS TY 2 CL A	12	31.8	1.00	11.5
S74A	74A	S76	SS TY 2 CL A	12	19.0	1.00	12.9
S74B	S74	S72M	RCP TEE P12 R12	-	-	-	-
S74C	S74A	S76	RCP TEE P12 R12	-	-	-	-
S75	75	S76	SS TY 2 CL A	12	16.1	1.00	5.2
S75A	S75	S76	RCP TEE P12 R12	-	-	-	-
S75M	75M	74A	SS TY 2 CL A	12	16.4	1.00	6.8
S76	76	79	SS TY 2 CL A	12	99.9	1.00	85.5
S77	77	S71	SS TY 2 CL A	12	3.9	1.00	2.7
S77A	S77	S71	RCP TEE P42 R12	-	-	-	-
S78	78	79	SS TY 2 CL A	12	18.9	1.00	19.0
S79	79	84A	SS (WATERMAIN REQUIREMENTS)	48	208.3	0.50	350.8
S80	80	84	SS TY 2 CL A	12	6.4	1.00	4.4
S81	81	82	SS TY 2 CL A	12	6.9	1.00	2.2
S82	82	84	SS TY 2 CL A	12	82.5	1.00	28.8
S83	83	S82	SS TY 2 CL A	12	20.0	1.00	13.2
S83A	S83	S82	RCP TEE P12 R12	-	-	-	-
S84	84	S79	SS TY 2 CL A	12	4.8	1.00	3.4
S84A	84A	85	SS TY 2 CL A	48	109.9	0.50	160.0
S84B	S84	S79	RCP TEE P48 R12	-	-	-	-
S85	85	89	SS TY 2 CL A	48	159.1	0.50	322.7
S85A	85A	S84A	SS TY 2 CL A	12	15.1	1.00	2.7
S85B	S85A	S84A	RCP TEE P48 R12	-	-	-	-
S86	86	83	SS TY 2 CL A	12	47.2	1.00	17.7
S87	87	87M	SS TY 2 CL A	12	26.9	1.00	28.4
S87A	S87M	S85	RCP TEE P48 R12	-	-	-	-
S87M	87M	S85	SS TY 2 CL A	12	65.0	1.00	61.7
S88	88	S85	SS TY 2 CL A	12	4.6	1.00	5.6
S88A	S88	S85	RCP TEE P48 R12	-	-	-	-
S89	89	95	SS TY 2 CL A	48	213.87	0.54	554.0
S90	90	89	SS TY 3 CL A	12	19.5	1.00	25.2
S91	91	89	SS TY 2 CL A	24	126.5	0.50	196.6
S91A	91A	91	SS TY 1 CL A	24	30.0	0.50	-
S92	92	S87M	SS TY 2 CL A	12	41.7	1.00	45.8
S92A	S92	S87M	RCP TEE P12 R12	-	-	-	-

DRAINAGE STRUCTURE TABLE: STA. 82+00 TO STA. 97+00

NO.	STATION	OFFSET (FT)	STRUCTURE TYPE/SIZE MH	CB	IN	OTHER	F&G	INVERT (N)	(S)	(E)	(W)	RIM ELEV (FT)
60	82+57.44	37.03 RT	A 5′				1 CL			668.80	668.80	677.63
61	83+06.65	33.00 RT		A 4′			24	669.52	669.52			676.86
61M	83+06.65	9.00 RT		A 4′			24	669.71	669.71			677.33
62	83+06.65	33.00 RT		C			24		670.06			676.86
62M	83+06.65	9.00 LT		A 4′			24	669.85	669.85			677.33
63	85+56.00	33.00 LT		C			24			668.92		675.32
64	85+84.57	43.53 LT		C			8		668.75			673.63
64M	85+84.57	9.00 LT		A 4′			24	668.44	668.44			675.61
65	85+56.00	33.00 RT		C			24		668.03			675.32
66	85+86.56	36.91 RT	A 5′				1 CL	668.06		666.83	666.83	675.40
66M	85+84.57	9.00 RT		A 4′			24	668.30	668.30			675.61
67	87+55.00	55.00 RT				PRC FES 12″				672.02		
67A	87+70.00	55.00 RT	A 4′				1 CL	671.24	671.24		671.87	674.50
68	87+88.05	39.56 RT	A 5′				1 CL	670.18	670.54	665.58	665.58	674.11
69	87+79.09	35.27 RT		A 4′			24	670.24		670.24		673.94
69M	87+79.09	11.26 RT		A 4′			24	670.44	670.44			674.41
70	87+79.09	35.27 LT		C			24		670.83			673.94
70D	89+13.61	46.75 LT		C			8		667.44			671.74
70M	87+79.09	11.15 LT		A 4′			24	670.62	670.62			674.41
71	89+13.61	41.95 RT	A 5′				1 CL	666.58		664.86	664.86	674.59
72	90+28.44	40.00 LT		C			24		666.26			672.40
72M	90+28.44	16.00 LT		A 4′			24	666.06	666.06			672.87
73	90+28.44	40.00 RT		A 4′			24	665.55	665.55			672.40
74	90+61.25	4.19 RT		C			11 V				666.18	672.20
74A	92+25.29	4.00 RT		A 4′			11 V	664.98		664.98		671.42
75	92+35.13	40.00 LT		C			24			665.39		671.12
75M	92+25.29	16.00 LT		C			24		665.15			671.66
76	92+54.82	58.07 LT		C			8		665.45			669.50
77	92+35.13	40.00 RT		C			24		664.52			671.12
78	92+41.69	65.61 RT				PRC FES 12″		667.73				
79	92+41.34	43.53 RT	A 6′				1 CL	664.45	667.54	662.73	663.22	674.73
80	94+03.60	47.90 RT		C			24			663.62		670.12
81	94+03.60	40.00 LT		C			24			664.61		670.28
82	94+13.44	40.00 LT		A 4′			24		664.38		664.38	670.28
83	94+35.26	4.00 LT		A 4′			11 V			664.39	664.22	670.56
84	94+13.44	49.15 RT		A 5′			24	663.56	663.39		663.56	670.10
84A	94+54.95	56.72 RT	A 6′				1 CL			661.66	661.66	670.78
85	95+69.78	56.72 RT	A 6′				1 CL			661.09	661.09	671.56
85A	94+87.75	73.41 RT		C			8	663.13				668.32
86	94+81.19	16.43 RT		C			24				664.86	671.02
87	95+96.02	40.00 LT		C			24		663.34			671.67
87M	95+96.02	8.89 LT		A 4′			11 V	663.07	663.07			672.02
88	96+48.52	53.00 RT		C			24		662.22			671.91
89	97+40.38	56.72 RT	A 6′				1 CL	661.74	661.91	660.27	660.27	673.22
90	97+33.82	79.56 RT		C			8	662.10				667.35
91	97+33.82	72.18 LT		A 5′			8		662.37	662.37		666.18
91A	97+63.82	72.18 LT		C			8				662.52	666.33
92	96+38.67	2.60 RT		C			24				663.36	672.26

PIPE TABLE: STATION 97+00 TO STATION 112+00

PIPE NO.	PIPE LOCATION FROM STR.	PIPE LOCATION TO STR.	DESCRIPTION	DIA. (IN)	L (FT)	S (%)	TRENCH BACKFILL VOL. (CY)
S95	95	96	SS TY 2 CL A	60x38	153.59	0.50	424.8
S96	96	101	SS (WATERMAIN REQUIREMENTS)	48	374.85	0.49	595.4
S96A	96A	S96	SS TY 2 CL A	12	10.8	1.00	12.4
S96B	S96A	S96	RCP TEE P48 R12	-	-	-	-
S97	97	S96	SS TY 2 CL A	12	8.5	1.00	8.0
S97A	S97	S96	RCP TEE P48 R12	-	-	-	-
S98	98	S105	SS TY 2 CL A	12	5.2	1.00	3.8
S98A	S98	S105	RCP TEE P12 R12	-	-	-	-
S99	99	S100	SS TY 2 CL A	12	38.4	1.00	29.4
S99A	99A	100	SS TY 2 CL A	12	115.6	1.00	132.4
S99B	S99	S100	RCP TEE P12 R12	-	-	-	-
S100	100	97	SS TY 2 CL A	12	89.2	1.00	77.3
S101	101	106A	EXIST. S.S 54"	54	154.5	0.34	-
S102	102	101	SS TY 1 CL A	12	6.9	1.00	1.3
S103	103	101	SS TY 2 CL A	12	18.0	1.00	13.1
S104	104	S105	SS TY 2 CL A	12	20.7	1.00	7.3
S104A	S104	S105	RCP TEE P12 R12	-	-	-	-
S105	105	101	EXIST. S.S 12"	12	89.9	1.00	-
S105A	105A	105B	SS TY 1 CL A	24	230	0.17	5.4
S105B	105B	105C	SS (WATERMAIN REQUIREMENTS)	24	50	0.17	7.4
S105C	105C	105D	SS (WATERMAIN REQUIREMENTS)	24	50	0.20	0.0
S105D	105D	105E	SS TY 1 CL A	24	200	0.20	11.2
S106	106	S106A	SS TY 2 CL A	12	13.1	1.00	16.6
S106A	106A	108	EXIST. S.S 54"	54	177.2	0.03	-
S106B	106B	106A	SS TY 1 CL A	12	60.0	0.5	-
S107	107	S105A	SS TY 2 CL A	12	19	1.00	0.0
S107A	S107	S105A	RCP TEE P24 R12	-	-	-	-
S108	108	114	EXIST. S.S 76"x48"	76x48	296.47	0.52	-
S109	109	105C	SS TY 2 CL A	12	47	1.00	8.6
S110	110	105D	SS TY 1 CL A	12	9	1.00	0.0
S111	111	S108	SS TY 2 CL A	12	8.9	1.00	6.9
S111M	111M	111	SS TY 2 CL A	12	19.7	1.00	16.0
S112	112	113	EXIST. S.S 60"x38"	60x38	89.2	0.50	-
S115	115	S114	EXIST. S.S 12"	12	20.0	1.00	12.9
S116	116	S116A	SS TY 2 CL A	12	12	1.00	0.0
S116A	116	S105E	RCP TEE P24 R12	-	-	-	-

PIPE TABLE: STATION 112+00 TO STATION 127+00

PIPE NO.	PIPE LOCATION FROM STR.	PIPE LOCATION TO STR.	DESCRIPTION	DIA. (IN)	L (FT)	S (%)	TRENCH BACKFILL VOL. (CY)
S114	114	114A	EXIST. S.S 83"x53"	82x52	402.2	0.14	-
S114A	114A	124	EXIST. S.S 83"x53"	82x52	174.2	0.14	-
S117	117	118	EXIST. S.S 12"	12	9.2	1.00	-
S118	118	S116	EXIST. S.S 12"	12	63.6	1.00	-
S118A	S118	S116	EXIST. TEE P12 R12	-	-	-	-
S119	119	122	EXIST. S.S 12"	12	6.4	1.00	-
S119A	119A	S121	EXIST. S.S 12"	12	69.6	1.00	-
S119B	S119A	S121	EXIST. TEE P12 R12	-	-	-	-
S119M	119M	119A	EXIST. S.S 12"	12	10.2	1.00	-
S120	120	121	SS TY 2 CL A	12	6.9	1.00	1.4
S121	121	122	EXIST. S.S 12"	12	60.9	1.00	-
S122	122	122A	EXIST. S.S 12"	12	11.5	1.00	-
S122A	S122	S114A	EXIST. TEE P14 R12	-	-	-	-
S123	123	124	EXIST. S.S 12"	12	7.2	1.00	-
S124	124	130	EXIST. S.S 90"x58"	90x58	239.5	0.10	-
S125	125	124	EXIST. S.S 24"	24	90.1	1.00	-
S126	126	126M	EXIST. S.S 12"	12	20.7	1.00	-
S126M	126M	127M	EXIST. S.S 12"	12	14.1	1.00	-
S127	127	127A	EXIST. S.S 12"	12	11.4	1.00	-
S127A	S127	S124	EXIST. TEE P58 R12	-	-	-	-
S127M	127M	127	EXIST. S.S 12"	12	19.7	1.00	-
S105E	105E	105F	SS TY 1 CL A	24	319	0.20	16.2
S105F	105F	125	SS TY 1 CL A	24	33	0.20	9.2

PIPE TABLE: STATION 127+00 TO STATION 142+00

PIPE NO.	PIPE LOCATION FROM STR.	PIPE LOCATION TO STR.	DESCRIPTION	DIA. (IN)	L (FT)	S (%)	TRENCH BACKFILL VOL. (CY)
S167	167	S170E	SS TY 2 CL A	12	4.1	1.00	5.1
S167A	S167	S170E	RCP TEE P18 R12	-	-	-	-
S167D	167D	S170E	SS TY 2 CL A	12	3.3	1.00	0.0
S167T	S167D	S170E	RCP TEE P18 R12	-	-	-	-
S167M	167M	167	SS TY 2 CL A	12	20.0	1.00	25.6
S168	168	167M	SS TY 2 CL A	12	37.6	1.00	46.3
S168A	168A	167M	SS TY 2 CL A	12	34.8	1.00	42.4
S169	169	S171	SS TY 2 CL A	12	8.5	1.00	9.4
S169A	S169	S171	RCP TEE P12 R12	-	-	-	-
S170	170	S172E	SS TY 2 CL A	12	3.6	1.00	4.1

PIPE TABLE: STATION 127+00 TO STATION 142+00

PIPE NO.	PIPE LOCATION FROM STR.	PIPE LOCATION TO STR.	DESCRIPTION	DIA. (IN)	L (FT)	S (%)	TRENCH BACKFILL VOL. (CY)
S170A	S170	S172E	RCP TEE P18 R12	-	-	-	-
S170E	170E	166	EXIST. S.S. 18"	18	118.6	2.77	-
S171	171	170	SS TY 2 CL A	12	61.5	1.00	65.5

DRAINAGE STRUCTURE TABLE: STA. 97+00 TO STA. 112+00

NO.	STATION	OFFSET (FT)	STRUCTURE TYPE/SIZE MH	CB	IN	OTHER	F&G	INVERT (N)	(S)	(NW)	(E)	(W)	RIM ELEV (FT)
95	99+60.14	53.69 RT	A 6'				1 CL	EXIST.			659.12	659.12	672.53
96	101+19.64	58.68 RT	A 6'				1 CL				658.35	658.35	670.21
96A	102+29.22	43.79 RT		A 4'			24	664.80	659.32				668.49
97	103+30.93	42.00 RT		A 4'			24	662.51	658.85				666.75
98	104+88.41	4.00 RT		C			11 V				658.65		665.33
99	103+60.46	3.21 LT		C			24					662.99	666.49
99A	101+57.04	52.00 LT			A		24				665.96		669.46
100	103+07.96	50.06 LT			A		24		663.40				666.90
101	105+00.30	46.80 RT				EXIST. CATCH BASIN	1 CL	658.22	658.22	662.58	656.03	656.53	665.36
102	104+78.57	42.00 RT		C			24					662.65	665.18
103	104+88.41	66.74 RT				PRC FES 12"		658.40					
104	104+78.57	40.00 LT		C			24				659.21		665.18
105	105+00.28	46.92 LT				EXIST. MANHOLE	8		659.12				663.19
105A	105+70.43	61.64 LT		A 5'			8	EXIST.			658.39		661.85
105B	108+00.00	59.00 LT		A 5'			8				658.00	658.00	661.75
105C	108+50.00	44.00 LT	A 5'				1 CL		660.35		657.61	657.90	663.85
105D	109+00.00	44.50 LT	A 5'				8		660.03		657.51	657.51	661.50
105E	111+00.00	45.35 LT	A 5'				8				657.11	657.11	661.89
106	106+49.17	40.00 RT		A 4'			24		655.49				664.34
106A	106+60.78	45.38 RT				EXIST. MANHOLE	1 CL		660.70		655.51	655.51	663.99
106B	106+00.00	65.00 RT		C			8				661.00		664.00
107	106+49.17	40.00 LT			A		24	658.95					664.34
108	108+45.56	42.51 RT				EXIST. MANHOLE	1 CL				655.46	655.46	663.68
109	108+19.77	7.24 LT		C			11 V	660.82					663.82
110	108+98.51	37.25 LT			A		24	660.12					663.12
111	108+98.51	36.42 RT		A 4'			24	656.06	656.06				663.12
111M	108+98.51	12.42 RT		A 4'			24		656.26				663.59
112	109+24.76	59.71 RT		A 4'		EXIST. CATCH BASIN		655.03					660.74
113	110+13.34	65.61 RT				EXIST. PRC FES 60" x 38"						659.94	
115	111+47.86	33.00 RT				EXIST. CATCH BASIN	24	655.94	655.94				661.89
116	111+47.86	33.00 LT			A		24	657.63					661.89

DRAINAGE STRUCTURE TABLE: STA. 112+00 TO STA. 127+00

NO.	STATION	OFFSET (FT)	STRUCTURE TYPE/SIZE MH	CB	IN	OTHER	F&G	INVERT (N)	(S)	(E)	(W)	RIM ELEV (FT)
105F	114+19.60	48.50 LT	A 5'				8	EXIST.		656.47	656.47	660.90
114	112+26.60	37.25 RT				EXIST. MANHOLE	1 CL			653.93	653.93	662.27
114A	112+75.81	49.86 RT				EXIST. MANHOLE	1 CL			653.86	653.86	661.74
117	112+23.32	4.45 LT				EXIST. CATCH BASIN	11 V		656.94			661.90
118	112+13.47	2.17 RT				EXIST. CATCH BASIN	11 V			656.85	656.85	661.91
119	113+96.66	33.00 RT				EXIST. CATCH BASIN						660.78
119A	113+34.86	3.00 LT				EXIST. CATCH BASIN	11 V			656.59	656.59	661.18
119M	113+21.74	9.00 LT				EXIST. CATCH BASIN	11 V			656.69		661.51
120	113+96.66	33.00 LT		C			24			656.26		660.78
121	114+06.50	33.00 LT		A 4'			24		656.19		656.19	660.78
122	114+06.50	33.00 RT				EXIST. CATCH BASIN						660.78
123	114+56.25	63.65 RT				PRC FES 12"						
124	114+56.25	49.87 RT				EXIST. MANHOLE	11 V	655.51	655.51	653.62	653.62	660.99
125	114+52.76	46.47 LT				EXIST. MANHOLE		EXIST.	656.40(E)		656.40	661.00
126	114+89.06	33.00 LT				EXIST. CATCH BASIN			656.13			661.03
126M	114+89.06	33.00 LT				EXIST. CATCH BASIN		655.92	655.92			661.50
127	114+89.06	9.00 LT				EXIST. CATCH BASIN		655.59	655.59			661.03
127M	114+89.06	9.00 RT				EXIST. CATCH BASIN		655.78	655.78			661.50
130	117+02.32	49.78 RT				EXIST. MANHOLE				653.38	653.38	662.03

DRAINAGE STRUCTURE TABLE: STA. 127+00 TO STA. 142+00

NO.	STATION	OFFSET (FT)	STRUCTURE TYPE/SIZE MH	CB	IN	OTHER	F&G	INVERT (N)	(S)	(E)	(W)	RIM ELEV (FT)
163	136+38.01	45.28 LT				EXIST. MANHOLE				655.02	655.02	660.98
166	139+80.85	37.62 LT				EXIST. MANHOLE				658.33	658.33	665.71
167	140+18.59	32.05 LT		A 4'			24	659.22	659.22			669.05
167D	140+31.71	41.34 LT		C			8		659.57			667.34
167M	140+18.59	7.99 LT		A 4'			24	659.42	659.42		659.42	669.52
168	140+18.59	33.21 RT		C			24	659.79				669.05
168A	139+82.50	4.23 RT		C			11 V			659.77		668.84
169	141+49.82	2.91 LT		C			11 V			663.16		672.09
170	141+59.66	30.79 LT		A 4'			24	662.83	662.83			671.84
170E	141+03.50	35.93 LT				EXIST. MANHOLE				661.76	661.28	669.32
171	141+59.66	34.10 RT		C			24	663.45				671.83

NOTE: CONTRACTOR TO FIELD VERIFY ELEVATION OF NORTH INVERT ON STRUCTURE 95.

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	PLOT DATE = 7/28/2010	CHECKED - JP	REVISED -	
		DATE - 05/14/2010	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 22
DRAINAGE TABLES

SCALE: NTS | SHEET NO. 107 OF 232 SHEETS | STA. 97+00.00 TO STA. 142+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	107
		CONTRACT NO. 60860		
	ILLINOIS FED. AID PROJECT			

PIPE TABLE: STATION 142+00 TO STATION 157+00

PIPE NO.	PIPE LOCATION		DESCRIPTION	DIA. (IN)	L (FT)	S (%)	TRENCH BACKFILL VOL. (CY)
	FROM STR.	TO STR.					
S171D	171D	172E	SS TY 2 CL A	12	17.1	1.00	15.7
S171J	171J	174	SS TY 2 CL A	12	97.1	1.00	30.8
S172	172	172E	SS TY 2 CL A	12	2.6	1.00	2.9
S172E	172E	170E	EXIST. S.S. 18"	18	256.2	1.52	0.0
S173	173	174	SS (WATERMAIN REQUIREMENTS)	12	32.7	1.00	38.6
S173J	173J	S172E	SS TY 2 CL A	12	55.9	1.00	64.6
S173K	S173J	S172E	RCP TEE P18 R12	-	-	-	-
S174	174	S172	SS TY 2 CL A	12	39.0	1.00	23.3
S174M	174M	174	SS TY 2 CL A	12	13.8	1.00	15.4
S175	175	S177E	SS TY 1 CL A	12	3.9	1.00	1.3
S175A	175A	S176	SS TY 1 CL A	12	17.7	1.00	1.8
S175B	S175	S177E	RCP TEE P12 R12	-	-	-	-
S175C	S175A	S176	RCP TEE P12 R12	-	-	-	-
S175M	175M	175A	SS TY 1 CL A	12	4.9	1.00	1.3
S176	176	175	SS TY 1 CL A	12	61.2	1.00	3.0
S176E	176E	172E	EXIST. S.S. 12"	12	301.8	2.27	0.0
S177	177	177E	SS TY 1 CL A	12	24.0	1.00	2.9
S177E	177E	176E	EXIST. S.S. 12"	12	135.2	3.43	0.0
S178	178	177	SS TY 1 CL A	12	60.4	1.00	2.7
S179	179	180E	SS TY 2 CL A	12	39.0	1.00	16.3
S180	180	180E	SS TY 2 CL A	12	29.9	1.00	30.2
S180E	180E	182E	EXIST. S.S. 12"	12	78.1	1.30	0.0
S181	181	S180E	SS TY 2 CL A	12	68.2	1.00	64.1
S181A	S181	S180E	RCP TEE P12 R12	-	-	-	-
S182	182	182E	SS TY 2 CL A	12	3.0	1.00	2.5
S182E	182E	184E	EXIST. S.S. 12"	12	301.2	1.56	0.0
S183	183	S182E	SS TY 2 CL A	12	4.3	1.00	4.1
S183A	S183	S182E	RCP TEE P12 R12	-	-	-	-
S183M	183M	183	SS TY 2 CL A	12	19.7	1.00	18.8
S184	184	184M	SS TY 2 CL A	12	20.7	1.00	18.6
S184E	184E	188E	EXIST. S.S. 15"	15	330.7	1.72	0.0
S184M	184M	183M	SS TY 2 CL A	12	12.1	1.00	11.6
S185	185	S184E	SS TY 2 CL A	12	3.6	1.00	2.7
S185A	S185	S184E	RCP TEE P15 R12	-	-	-	-
S186	186	185	SS (WATERMAIN REQUIREMENTS)	12	70.9	1.00	51.3

DRAINAGE STRUCTURE TABLE: STA. 142+00 TO STA. 157+00

NO.	STATION	OFFSET (FT)	STRUCTURE TYPE/SIZE				F&G	INVERT				RIM ELEV (FT)
			MH	CB	IN	OTHER		(N)	(S)	(E)	(W)	
171D	143+58.20	55.48 LT		C			8		667.82			673.60
171J	143+04.31	70.45 RT		C			24			669.09		672.59
172	143+69.63	33.15 LT		A 4'			24	665.84	667.73			674.62
172E	143+63.53	35.94 LT				EXIST. MANHOLE		667.65	665.81	EXIST.	EXIST.	674.80
173	143+80.00	45.25 RT			A		24	671.34				674.34
173J	143+08.52	93.08 LT		C			24		665.62			674.84
174	143+85.00	7.92 RT		A 4'			11 V	668.12	671.01	672.03	668.12	675.37
174M	144+09.00	10.94 RT		C			11 V				672.17	675.67
175	145+86.17	28.37 LT		A 4'			24	674.40	674.40			677.73
175A	146+05.85	3.61 RT		A 4'			11 V		674.87		674.87	678.43
175M	146+05.85	11.71 RT		C			24	674.92				678.47
176	145+86.17	35.63 RT		C			24	675.01				677.73
176E	146+70.09	33.80 LT				EXIST. MANHOLE				672.48	672.48	681.05
177	148+35.51	27.59 LT		A 4'			24		677.63		677.63	681.02
177E	148+08.92	34.95 LT				EXIST. MANHOLE			677.40		677.23	681.42
178	148+35.51	36.42 RT		C			24	678.24				681.02
179	151+47.19	49.87 LT		C			8			672.34		676.90
180	151+53.75	27.90 LT		C			24			672.25		680.83
180E	151+86.01	33.76 LT				EXIST. MANHOLE			671.95	671.62	671.95	680.12
181	152+12.81	36.12 RT		C			24	671.95				679.92
182	152+68.58	27.91 LT		C			24	670.80				678.97
182E	152+67.24	33.67 LT				EXIST. MANHOLE			670.77	670.50	670.50	677.61
183	154+62.99	28.35 LT		A 4'			24	667.50	667.50			675.49
183M	154+62.99	4.35 LT		A 4'			24	667.69	667.69			675.82
184	154+62.99	35.65 RT		C			24	668.02				675.49
184E	155+74.32	34.41 LT				EXIST. MANHOLE				665.70	665.70	672.34
184M	154+62.99	11.65 RT		A 4'			24	667.81	667.81			675.82
185	156+92.65	29.06 LT		A 4'			24	663.82	667.21			670.81
186	156+92.65	44.57 RT			A		24	667.92				670.92

PIPE TABLE: STATION 157+00 TO STATION 172+00

PIPE NO.	PIPE LOCATION		DESCRIPTION	DIA. (IN)	L (FT)	S (%)	TRENCH BACKFILL VOL. (CY)
	FROM STR.	TO STR.					
S187	187	S189	SS TY 2 CL A	12	29.5	1.00	26.0
S187A	S187	S189	RCP TEE P12 R12	-	-	-	-
S188	188	188E	SS TY 2 CL A	12	1.6	1.00	1.3
S188E	188E	190E	EXIST. S.S. 18"	18	235.6	1.96	0.0
S189	189	189M	SS TY 2 CL A	12	20.7	1.00	17.0
S189M	189M	188	SS TY 2 CL A	12	36.1	1.00	31.4
S190	190	S188E	SS TY 2 CL A	12	5.2	1.00	4.4
S190A	S190	S188E	RCP TEE P18 R12	-	-	-	-
S190E	190E	193E	EXIST. S.S. 24"	24	297.9	1.96	0.0
S190M	190M	190	SS TY 2 CL A	12	20.0	1.00	18.0
S191	191	191M	SS TY 2 CL A	12	20.7	1.00	17.5
S191M	191M	190M	SS TY 2 CL A	12	12.5	1.00	11.8
S192	192	S190E	SS TY 2 CL A	12	5.9	1.00	5.4
S192A	S192	S190E	RCP TEE P24 R12	-	-	-	-
S192M	192M	192	SS TY 2 CL A	12	20.0	1.00	19.8
S193	193	193M	SS TY 2 CL A	12	28.9	1.00	27.1
S193E	193E	196E	EXIST. S.S. 27"	27	304.5	1.07	0.0
S193M	193M	192M	SS TY 2 CL A	12	4.3	1.00	4.6
S194	194	S193E	SS TY 2 CL A	12	5.9	1.00	5.5
S194A	S194	S193E	RCP TEE P27 R12	-	-	-	-
S194D	194D	193E	SS TY 2 CL A	12	11.8	1.00	6.3
S194M	194M	193E	SS TY 2 CL A	12	27.9	1.00	25.8
S195	195	195M	SS TY 2 CL A	12	32.5	1.00	29.6
S195M	195M	194M	SS TY 2 CL A	12	0.7	1.00	1.3
S196	196	S193E	SS TY 2 CL A	12	4.6	1.00	3.8
S196A	S196	S193E	RCP TEE P27 R12	-	-	-	-
S196E	196E	200E	EXIST. S.S. 36"	36	357.0	0.39	0.0
S196I	196I	196E	SS TY 2 CL A	12	1.6	1.00	1.4
S196M	196M	196	SS TY 2 CL A	12	20.0	1.00	16.6
S197	197	197M	SS TY 2 CL A	12	20.7	1.00	16.1
S197I	197I	196I	SS TY 2 CL A	12	60.7	1.00	54.0
S197M	197M	196M	SS TY 2 CL A	12	12.1	1.00	9.9
S198	198	S196E	SS TY 2 CL A	12	3.6	1.00	2.7
S198A	S198	S196E	RCP TEE P36 R12	-	-	-	-
S198M	198M	198	SS TY 2 CL A	12	20.3	1.00	19.0
S199	199	199M	SS TY 2 CL A	12	19.4	1.00	13.7
S199M	199M	198M	SS TY 2 CL A	12	12.1	1.00	9.3

DRAINAGE STRUCTURE TABLE: STA. 157+00 TO STA. 172+00

NO.	STATION	OFFSET (FT)	STRUCTURE TYPE/SIZE				F&G	INVERT				RIM ELEV (FT)
			MH	CB	IN	OTHER		(N)	(S)	(E)	(W)	
187	158+75.54	4.52 RT		A 4'			24			660.68		668.19
188	159+08.35	28.99 LT		A 4'			24	660.02	660.02			667.40
188E	159+12.15	32.97 LT				EXIST. MANHOLE			660.01	660.00	660.00	666.60
189	159+08.35	35.01 RT		C			24	660.59				667.40
189M	159+08.35	11.12 RT		A 4'			24	660.38	660.38		660.38	668.13
190	161+05.20	29.31 LT		A 4'			24	656.51	656.51			663.96
190E	161+53.96	37.43 LT				EXIST. MANHOLE				655.38	655.38	661.48
190M	161+05.20	5.40 LT		A 4'			24	656.71	656.71			664.73
191	161+05.20	34.60 RT		C			24	657.04				663.97
191M	161+05.20	10.60 RT		A 4'			24	656.83	656.83			664.73
192	163+02.05	29.67 LT		A 4'			24	653.04	653.04			660.80
192M	163+02.05	5.67 LT		A 4'			24	653.24	653.24			661.93
193	163+02.05	34.33 RT		C			24	653.57				660.80
193E	164+58.04	36.04 LT				EXIST. MANHOLE		650.20	650.20	649.59	649.59	657.77
193M	163+02.05	1.88 RT		A 4'			24	653.28	653.28			661.93
194	164+60.36	45.94 LT		A 4'			24		650.02			657.94
194D	164+59.53	52.49 LT		C			8		650.31			656.24
194M	164+59.53	5.90 LT		A 4'			24	650.47	650.47			658.63
195	164+60.36	34.10 RT		C			24	650.81				658.25
195M	164+59.53	1.76 LT		A 4'			24	650.48	650.48			658.63
196	166+56.38	30.15 LT		A 4'			24	648.09	648.09			655.40
196E	167+66.85	36.04 LT				EXIST. MANHOLE			646.46	646.19	EXIST.	653.54
196I	167+67.17	30.57 LT		A 4'			24	646.47	646.47			654.44
196M	166+56.38	6.15 LT		A 4'			24	648.29	648.29			655.63
197	166+56.38	33.50 RT		C			24	648.61				655.41
197I	167+67.17	33.50 RT		C			24	647.08				654.45
197M	166+56.38	9.50 RT		A 4'			24	648.41	648.41			655.63
198	168+92.60	30.43 LT		A 4'			24	646.80	646.80			653.64
198M	168+92.60	6.39 LT		A 4'			24	647.01	647.01			654.00
199	168+92.60	33.57 RT		C			24	647.32				653.66
199M	168+92.60	9.57 RT		A 4'			24	647.13	647.13			654.00

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	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 22
DRAINAGE TABLES

SCALE: NTS | SHEET NO. 108 OF 232 SHEETS | STA. 142+00.00 TO STA. 172+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	108
		CONTRACT NO. 60860		
		ILLINOIS	FED. AID PROJECT	

PIPE TABLE: STATION 172+00 TO STATION 174+82.92

PIPE NO.	PIPE LOCATION		DESCRIPTION	DIA. (IN)	L (FT)	S (%)	TRENCH BACKFILL VOL. (CY)
	FROM STR.	TO STR.					
S200	200	200E	SS TY 2 CL A	12	1.0	1.00	1.3
S200M	200M	200	SS TY 2 CL A	12	20.0	1.00	7.6
S201	201	201M	SS TY 1 CL A	12	19.7	1.00	3.5
S201M	201M	200M	SS TY 2 CL A	12	12.1	1.00	2.5
S202	202	EX PIPE	SS TY 1 CL A	15	2.3	1.00	1.3
S203	203	203F	SS TY 1 CL A	12	6.2	1.00	1.3

DRAINAGE STRUCTURE TABLE: 172+00 TO STA. 174+82.92

NO.	STATION	OFFSET (FT)	STRUCTURE TYPE/SIZE				F&G	INVERT				RIM ELEV (FT)
			MH	CB	IN	OTHER		(N)	(S)	(E)	(W)	
200	171+28.82	30.98 LT		A 4'			24	646.19	646.19			650.81
200E	171+29.16	35.89 LT				EXIST. MANHOLE		646.18	646.18	645.25	645.25	651.34
200M	171+28.82	7.11 LT		A 4'			24	646.39	646.39			650.96
201	171+28.82	32.92 RT			A		24	647.82				650.82
201M	171+28.82	8.92 RT		A 4'			24	646.51	647.62			650.96
202	172+40.36	32.44 RT		C			24	644.71				647.60
203	172+96.14	31.46 LT		C			24	643.43				646.09
203F	172+96.14	39.64 LT				PRC FES 12"			643.37			

PIPE TABLE: IL ROUTE 43 STATION 315+61.61 TO STATION 326+00

PIPE NO.	PIPE LOCATION		DESCRIPTION	DIA. (IN)	L (FT)	S (%)	TRENCH BACKFILL VOL. (CY)
	FROM STR.	TO STR.					
S204	204	206	SS TY 1 CL A	12	96.1	0.35	0.0
S204A	204A	204B	SS TY 1 CL A	12	6.7	0.00	0.0
S204M	204M	204C	SS TY 1 CL A	12	40.7	0.40	1.3
S204N	204N	204M	SS TY 1 CL A	12	34.8	0.44	1.3
S205	205	206	SS TY 1 CL A	12	4.6	1.00	1.3
S205M	205M	206M	SS TY 1 CL A	12	12.8	1.00	1.3
S206	206	207	SS TY 1 CL A	12	134.5	0.40	0.0
S206M	206M	205	SS TY 1 CL A	12	24.0	1.00	1.3
S207	207	EX. PIPE	SS TY 1 CL A	15	46.6	0.44	3.9
S208	208	207	SS TY 1 CL A	12	4.1	1.00	1.3
S210	210	210M	SS TY 2 CL A	12	24.9	1.00	16.3
S210M	210M	211M	SS TY 2 CL A	12	2.3	1.00	1.7
S211M	211M	211	SS TY 2 CL A	12	55.1	1.00	38.2
S95A	95A	95E	SS TY 2 CL A	12	11.2	1.00	1.6
S95B	95B	95A	SS TY 2 CL A	12	101.7	1.00	34.7

DRAINAGE STRUCTURE TABLE: IL ROUTE 43 STATION 315+61.61 TO STATION 326+00

NO.	STATION	OFFSET (FT)	STRUCTURE TYPE/SIZE				F&G	INVERT				RIM ELEV (FT)
			MH	CB	IN	OTHER		(N)	(S)	(E)	(W)	
204	322+00.00	70.00 RT				PRC FES 12"		665.37				
204A	321+19.35	51.54 RT			A		24	665.93				667.90
204B	221+25.00	63.70 RT				PRC FES 12"				665.93		
204C	321+95.00	65.00 RT				PRC FES 12"			665.37			
204M	322+07.94	30.00 RT		A 4'			24			665.54	665.54	668.31
204N	321+84.97	0.00		C			24			665.70		668.34
205	322+94.68	54.09 RT		A 4'			24			665.07	665.07	667.56
205M	322+94.68	12.00 RT		C			24			665.44		667.83
206	322+94.68	62.82 RT		A 4'			8	665.03	665.03		665.03	666.00
206M	322+94.68	27.60 RT		A 4'			24			665.31	665.31	668.02
207	324+32.67	71.16 RT	A 5'				1 CL	664.49	664.49	664.49	664.49	668.57
208	324+32.67	63.79 RT		C			24				664.53	668.08
210	326+14.79	26.96 LT		C			24			664.08		669.97
210M	326+12.99	0.00		A 4'			24			663.83	663.83	670.52
211	326+08.28	66.00 RT	A 5'				1 CL				663.25	669.71
211M	326+12.46	6.00 RT		A 4'			24			663.80	663.80	670.04
95A	329+95.34	36.00 LT		A 4'			24			664.65	664.65	670.97
95B	329+95.34	70.54 RT				PRC FES 12"					665.66	

PIPE TABLE: IL ROUTE 43 STATION 330+00 TO STATION 337+52.22

PIPE NO.	PIPE LOCATION		DESCRIPTION	DIA. (IN)	L (FT)	S (%)	TRENCH BACKFILL VOL. (CY)
	FROM STR.	TO STR.					
S212	S212	S214E	SS TY 2 CL A	12	13.8	1.00	1.3
S212A	212	S214E	RCP TEE P12 R12	-	-	-	-
S212M	212M	212	SS TY 2 CL A	12	52.5	1.00	12.6
S213	213	213M	SS TY 2 CL A	12	19.7	1.00	4.6
S213M	213M	212M	SS TY 2 CL A	12	5.6	1.00	1.4
S214	214	EX. PIPE	SS TY 1 CL A	12	70.2	0.40	0.0
S214E	PROP.	95E	EXISTING RCP SS	12	133.0	0.30	0.0
S215	215	214F	SS TY 1 CL A	12	13.1	1.00	1.3
S215M	215M	215	SS TY 1 CL A	12	30.5	1.00	3.5
S216	216	216M	SS TY 1 CL A	12	9.8	1.00	1.3
S216M	216M	215	SS TY 1 CL A	12	20.0	1.00	2.7
S217	217	216	SS TY 1 CL A	12	14.1	1.00	1.3
S95A	95A	95E	SS TY 1 CL A	12	11.19	0.40	0.0
S95B	95B	95A	SS TY 1 CL A	12	107.25	0.40	74.9

DRAINAGE STRUCTURE TABLE: IL ROUTE 43 STATION 330+00 TO STATION 337+52.22

NO.	STATION	OFFSET (FT)	STRUCTURE TYPE/SIZE				F&G	INVERT				RIM ELEV (FT)
			MH	CB	IN	OTHER		(N)	(S)	(E)	(W)	
95A	329+91.64	35.43 LT		A 4'			24			664.18	664.18	670.85
95B	329+91.64	74.26 RT				PRC FES 12"					664.61	
95E	329+91.64	51.61 LT		A 4'		EXISTING CATCHBASIN		664.14	664.14		664.14	669.39
212	331+29.20	32.12 LT		A 4'			24			665.15	665.15	670.15
212M	331+29.20	24.00 RT		A 4'			24			665.67	665.67	670.38
213	331+36.41	54.00 RT		C			24				665.92	670.34
213M	331+36.41	30.00 RT		A 4'			24			665.73	665.73	670.93
214	333+08.77	38.68 LT				PRC FES 12"			665.54			
214F	333+23.42	44.70 LT				PRC FES 12"				665.62		
215	333+23.42	24.00 LT		A 4'			24			665.63	665.63	669.30
215M	333+23.42	10.88 RT		A 4'			24				665.94	669.56
216	333+23.42	48.81 RT		A 4'			24			665.93	665.93	669.30
216M	333+23.42	24.36 RT		A 4'			24			665.83	665.83	669.89
217	333+23.42	64.31 RT				PRC FES 12"					666.05	

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USER NAME = $USER$ | PLOT SCALE = $SCALE$ | PLOT DATE = 5/15/2010

DESIGNED - LP | DRAWN - DC | CHECKED - JP | DATE - 05/14/2010

REVISED - | REVISED - | REVISED - | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

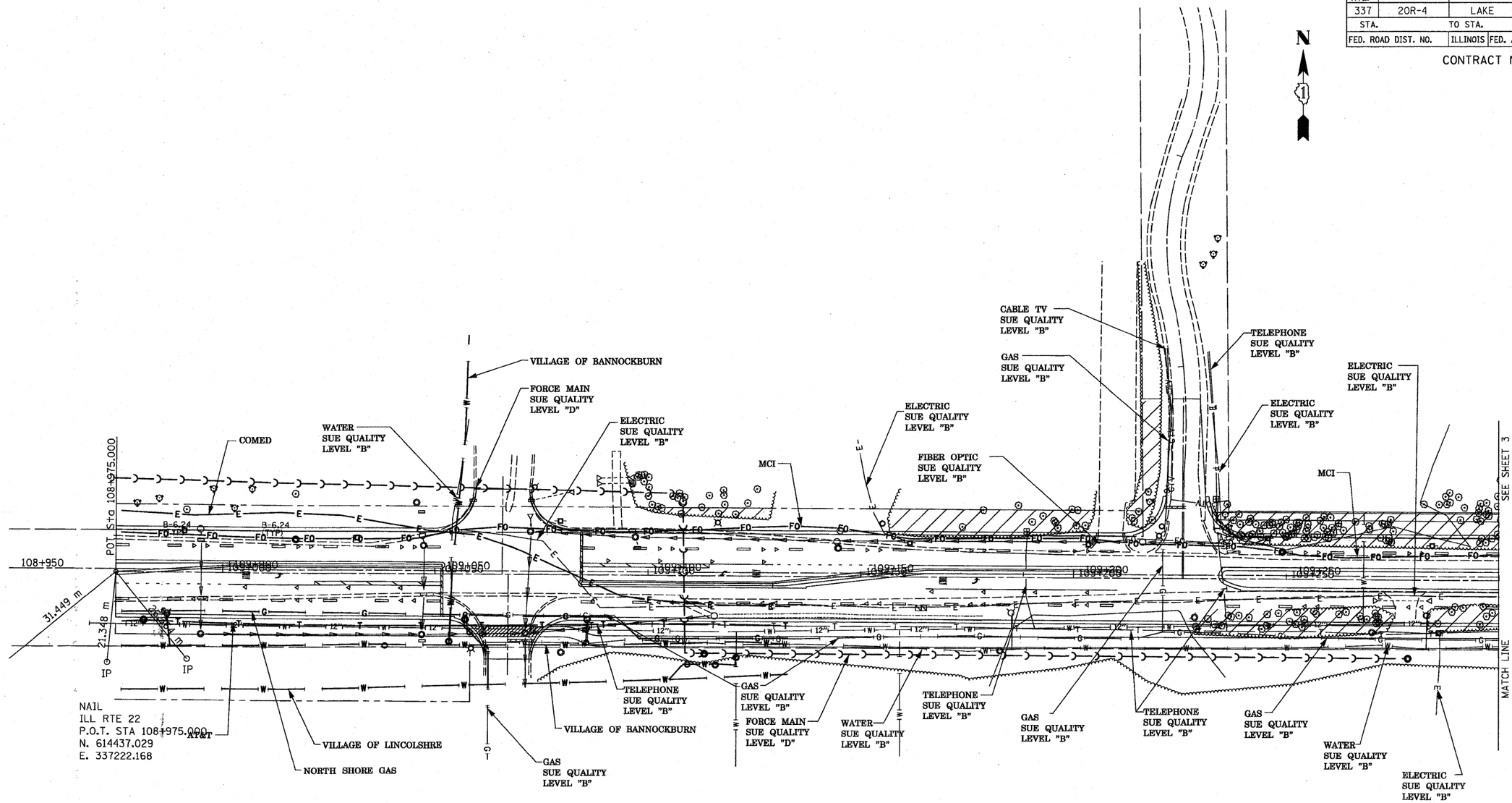
IL. ROUTE 22
DRAINAGE TABLES

SCALE: NTS | SHEET NO. 109 OF 232 SHEETS | STA. 172+00.00 TO STA. 174+82.92

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	109
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	109A
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60860



T T	TELEPHONE
W W	WATER
G G	GAS
CTV CTV CTV	CABLE TELEVISION
FO FO FO	FIBER OPTIC
E E	ELECTRIC

FOR SUE INFORMATION ONLY

LICENSED PROFESSIONAL ENGINEER
KENNETH F. SLANINKA, Jr.
062-055488
STATE OF ILLINOIS
signature
7/29/10
date
license expires 11-30-11

TBE GROUP, INC.
CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL
* PLANNING * UTILITY ENGINEERING/LOCATING
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PA,VA,CANADA
WESTERN REGION: AZ,NV,NM,TX,CA,OR,UT,WA

SUE Quality Level "B" Completed On : 3/20/02
Prepared By: JAC QA/QC By: RLC Final QA/QC By: KFS
TBE Project No: IL09500117, IL09510404, IL09510418

DYNASTY GROUP, INC. ENGINEERS AND SURVEYORS
205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS	
NAME	DATE
NEW UTILITIES IN COLOR	7/28/10

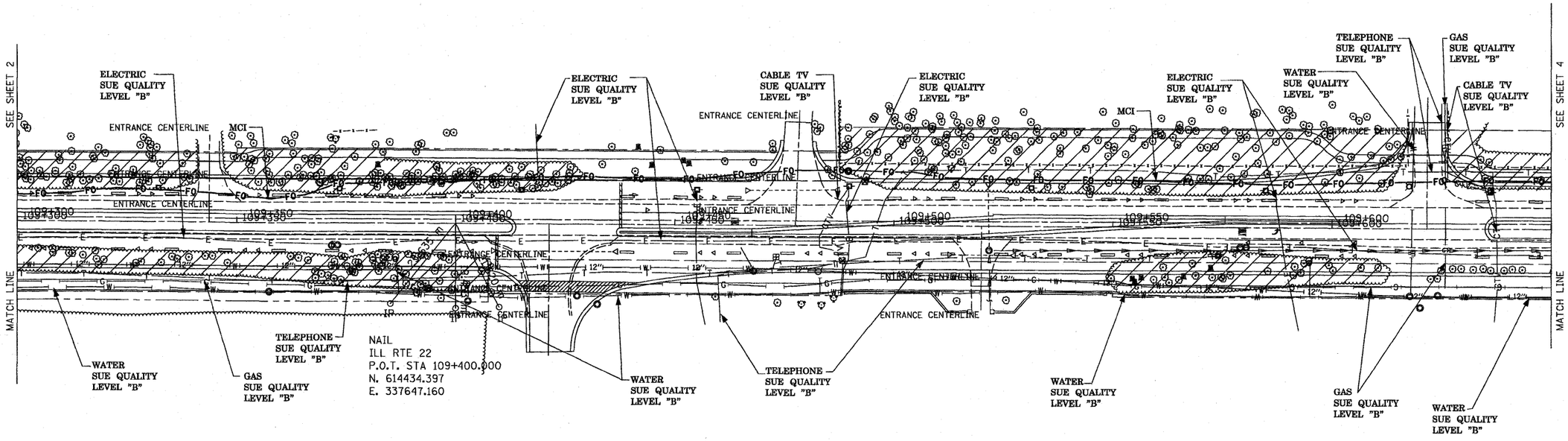
ILLINOIS DEPARTMENT OF TRANSPORTATION

IL RTE. 22
FROM EAST OF I-94 TO
WEST OF US-41

SCALE 1:500 (METRIC UNIT) DRAWN BY
DATE CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	109B
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60860



N

T T	TELEPHONE
W W	WATER
G G	GAS
CTV CTV CTV	CABLE TELEVISION
FO FO FO	FIBER OPTIC
E E	ELECTRIC

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KENNETH F. SLANINKA, Jr. 062-055488 LICENSED PROFESSIONAL ENGINEER STATE OF ILLINOIS

7/28/10 date

license expires 11-30-11

TBE GROUP, INC.

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TBE Project No: IL09500117, IL09510404, IL09510418

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NEW UTILITIES IN COLOR	7/28/10

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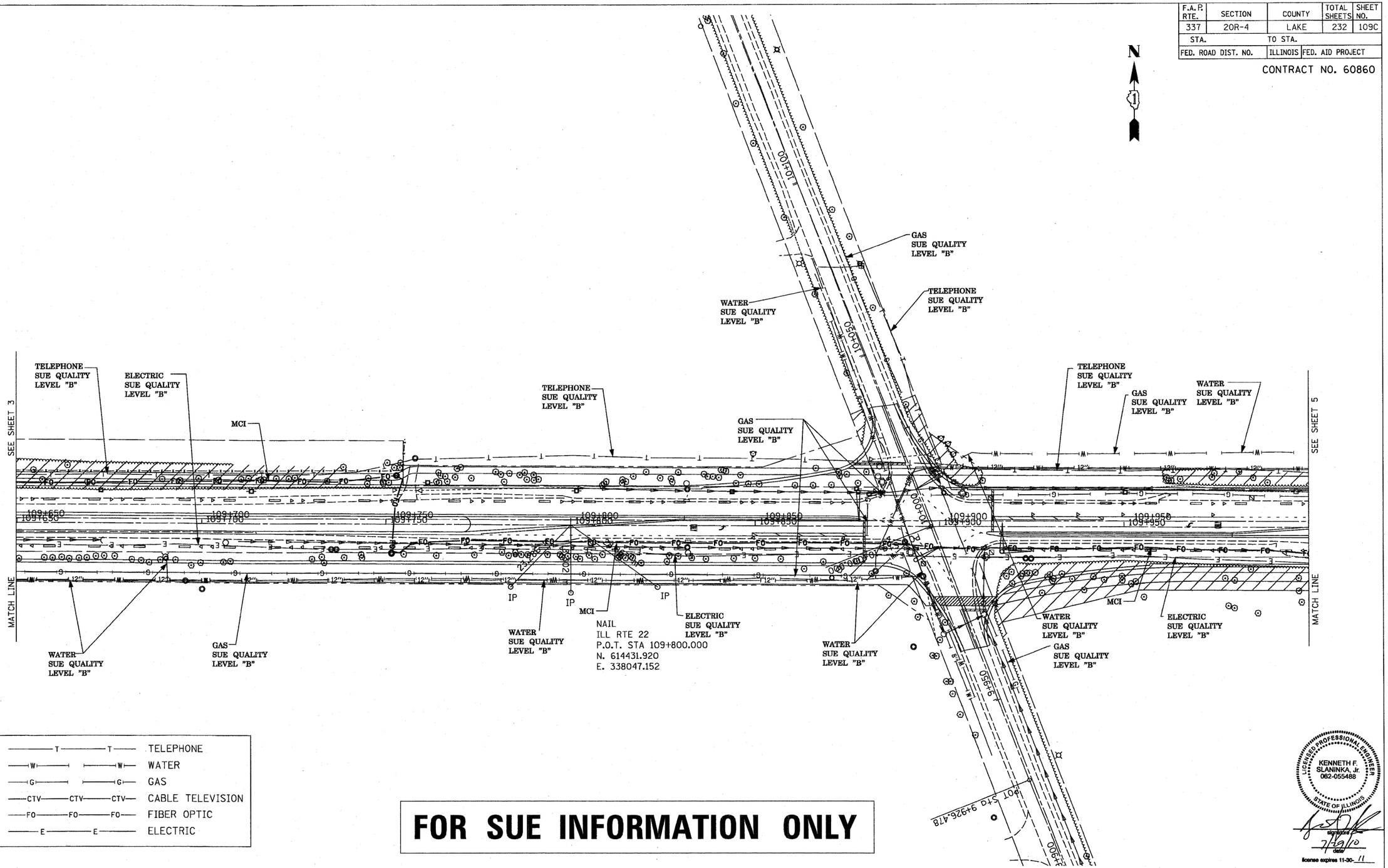
IL RTE. 22
FROM EAST OF I-94 TO
WEST OF US-41

SCALE 1:500 (METRIC UNIT) DRAWN BY

DATE CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	109C
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60860



T T	TELEPHONE
W W	WATER
G G	GAS
CTV CTV CTV	CABLE TELEVISION
FO FO FO	FIBER OPTIC
E E	ELECTRIC

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Prepared By: JAC QA/QC By: RLC Final QA/QC By: KF
TBE Project No: IL09500117, IL09510404, IL09510418

DYNASTY GROUP, INC. ENGINEERS AND SURVEYORS
205 W. WACKER DRIVE
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CHICAGO, IL 60606
(312) 704-1970

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NEW UTILITIES IN COLOR	7/28/10

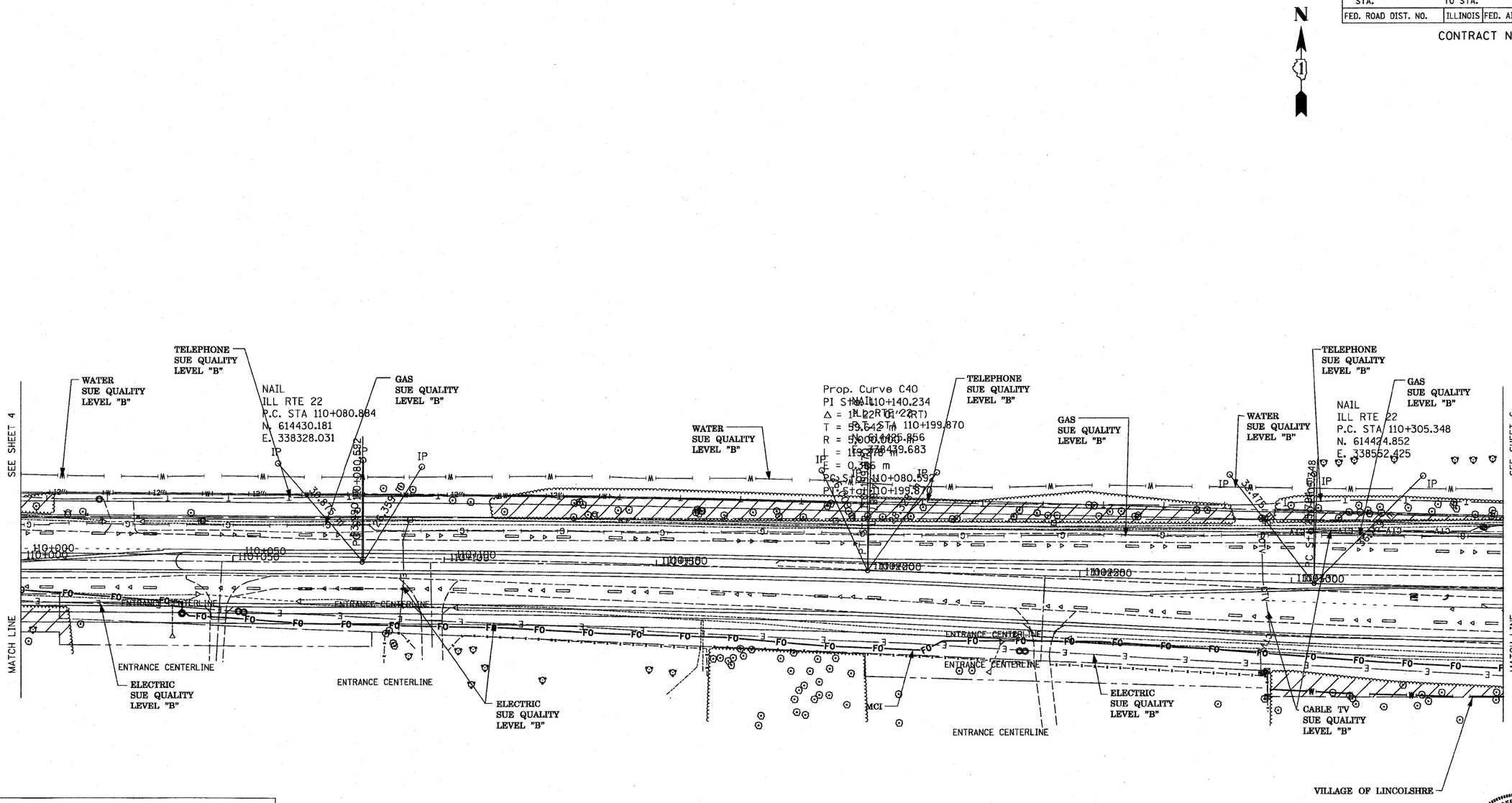
ILLINOIS DEPARTMENT OF TRANSPORTATION

IL RTE. 22
FROM EAST OF I-94 TO
WEST OF US-41

SCALE 1:500 (METRIC UNIT) DRAWN BY
DATE CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	109D
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60860



T T	TELEPHONE
W W	WATER
G G	GAS
CTV CTV CTV	CABLE TELEVISION
FO FO FO	FIBER OPTIC
E E	ELECTRIC

FOR SUE INFORMATION ONLY

KENNETH F. SLANINKA, Jr.
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LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
signature
7-23-10
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license expires 11-30-11

TBE GROUP, INC.
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Prepared By: JAC QA/QC By: RLC Final QA/QC By: KFS
TBE Project No: IL09500117, IL09510404, IL09510418

DYNASTY GROUP INC. ENGINEERS AND SURVEYORS
205 W. WACKER DRIVE
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CHICAGO, IL 60606
(312) 704-1970

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NEW UTILITIES IN COLOR	7/28/10

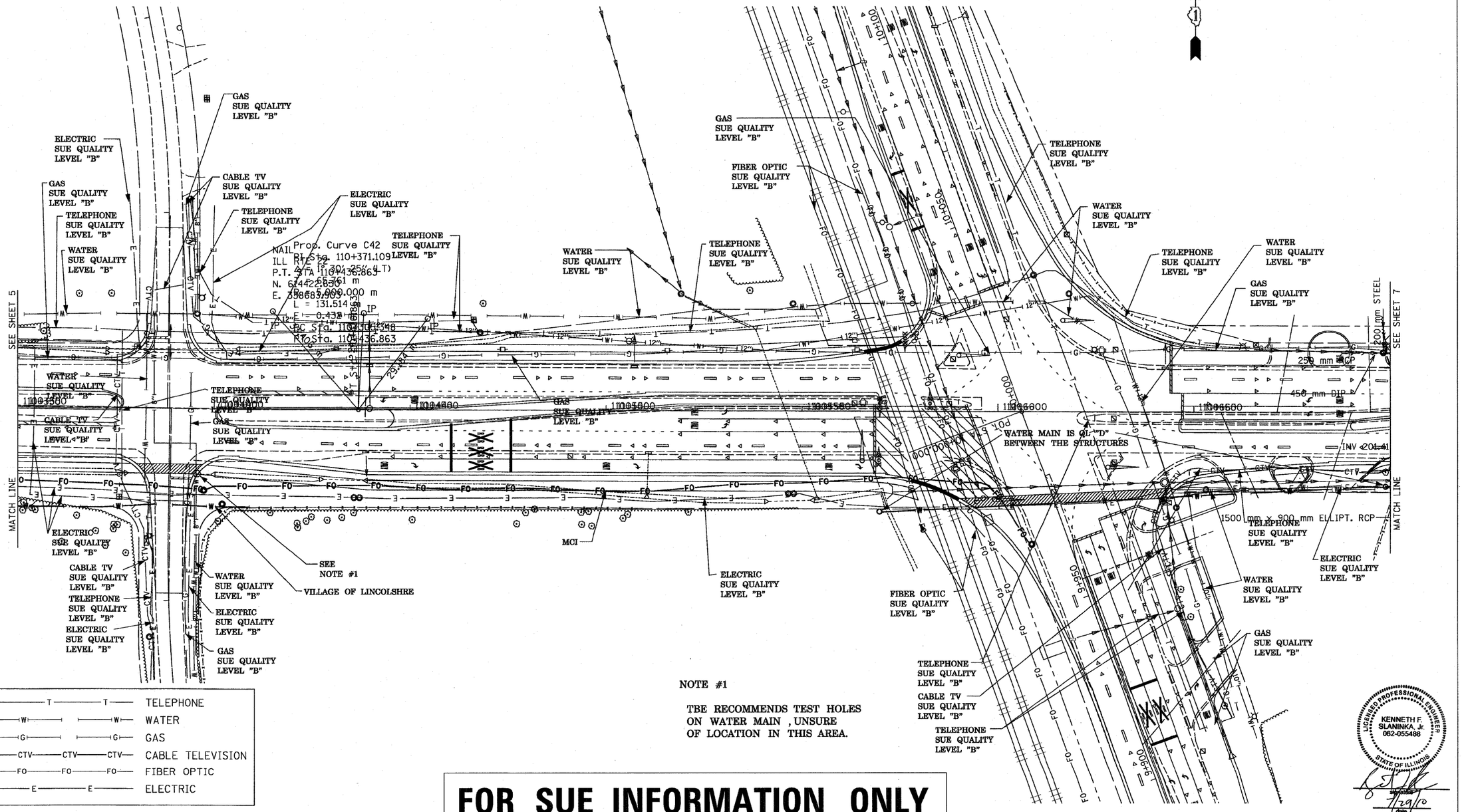
ILLINOIS DEPARTMENT OF TRANSPORTATION

IL RTE. 22
FROM EAST OF I-94 TO
WEST OF US-41

SCALE 1:500 (METRIC UNIT) DRAWN BY
DATE CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	109E
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60860



T T	TELEPHONE
W W	WATER
G G	GAS
CTV CTV CTV	CABLE TELEVISION
FO FO FO	FIBER OPTIC
E E	ELECTRIC

NOTE #1

TBE RECOMMENDS TEST HOLES ON WATER MAIN , UNSURE OF LOCATION IN THIS AREA.

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ILLINOIS DEPARTMENT OF TRANSPORTATION

IL RTE. 22
FROM EAST OF I-94 TO
WEST OF US-41

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DATE CHECKED BY

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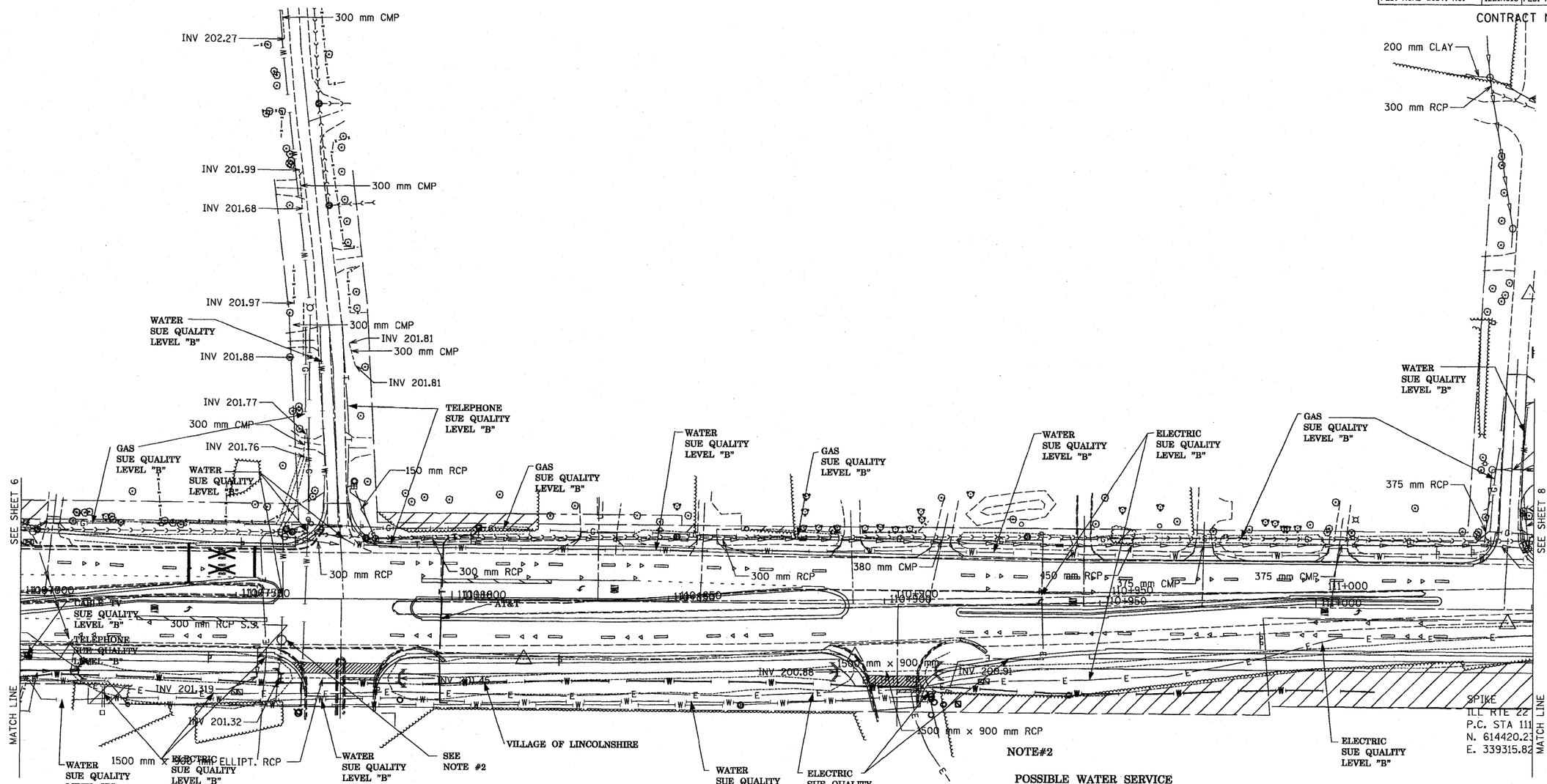
062-055488
STATE OF ILLINOIS
signature
7/29/10
date
license expires 11-30-11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	109F
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60860



NOTE#2

POSSIBLE WATER SERVICE TO GAS STATION ON SOUTHEAST CORNER OF RT 22 AND WASKEGAN RD.

——T——T——	TELEPHONE
——W——W——	WATER
——G——G——	GAS
—CTV—CTV—CTV—	CABLE TELEVISION
—FO—FO—FO—	FIBER OPTIC
——E——E——	ELECTRIC

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DYNASTY GROUP, INC. ENGINEERS AND SURVEYORS

205 W. WACKER DRIVE
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NEW UTILITIES IN COLOR	7/28/10

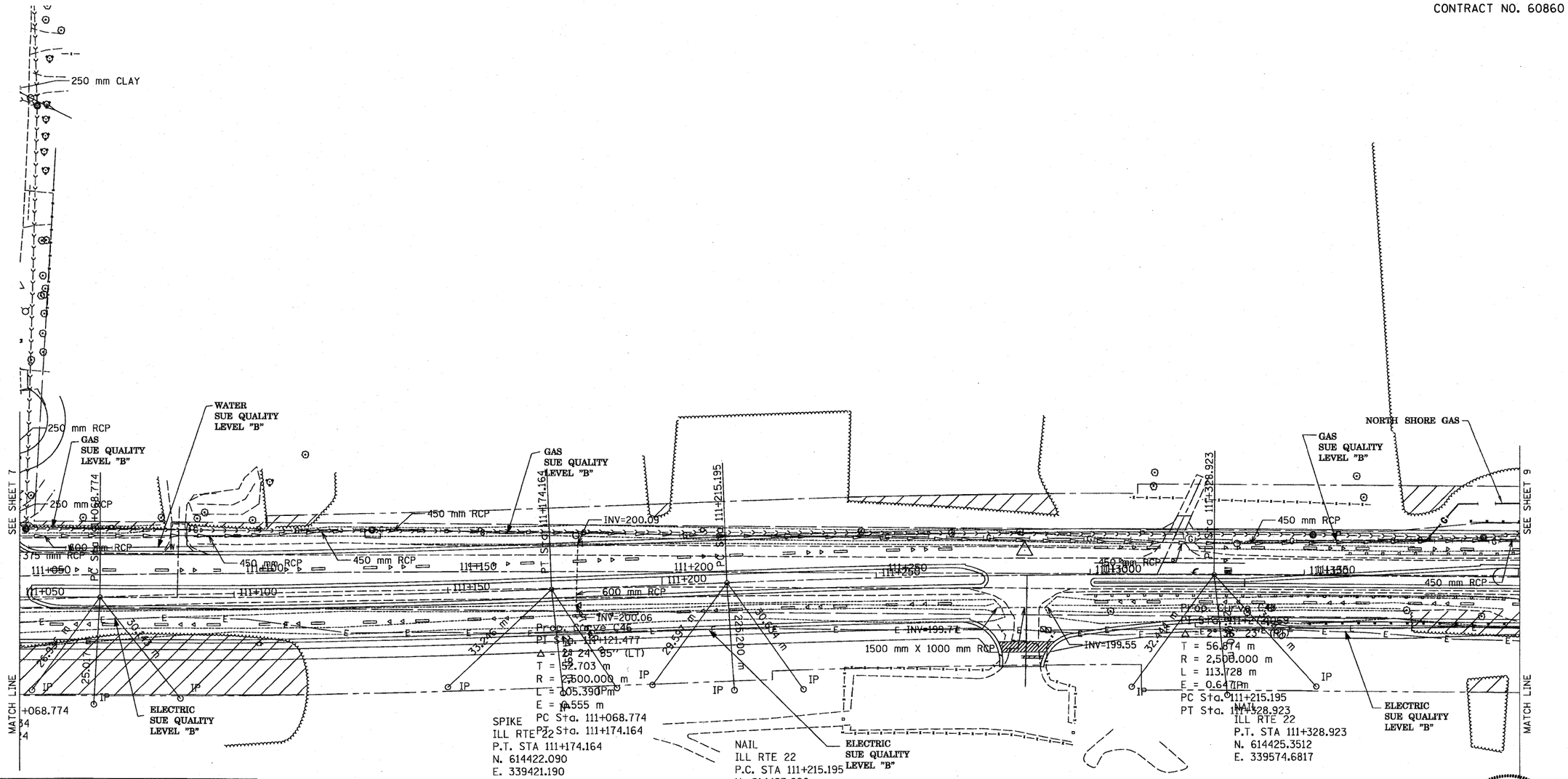
ILLINOIS DEPARTMENT OF TRANSPORTATION

IL RTE. 22
FROM EAST OF I-94 TO
WEST OF US-41

SCALE 1:500 (METRIC UNIT) DRAWN BY
DATE CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	109G
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60860



T T	TELEPHONE
W W	WATER
G G	GAS
CTV CTV CTV	CABLE TELEVISION
FO FO FO	FIBER OPTIC
E E	ELECTRIC

FOR SUE INFORMATION ONLY

KENNETH F. SLANINKA, Jr.
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STATE OF ILLINOIS
7/29/10
date
license expires 11-30-11

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SUE Quality Level "B" Completed On : 3/20/02
Prepared By: JAC QA/QC By: RLC Final QA/QC By: VS
TBE Project No: IL09500117, IL09510404, IL09510418

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REVISIONS	
NAME	DATE
NEW UTILITIES IN COLOR	7/28/10

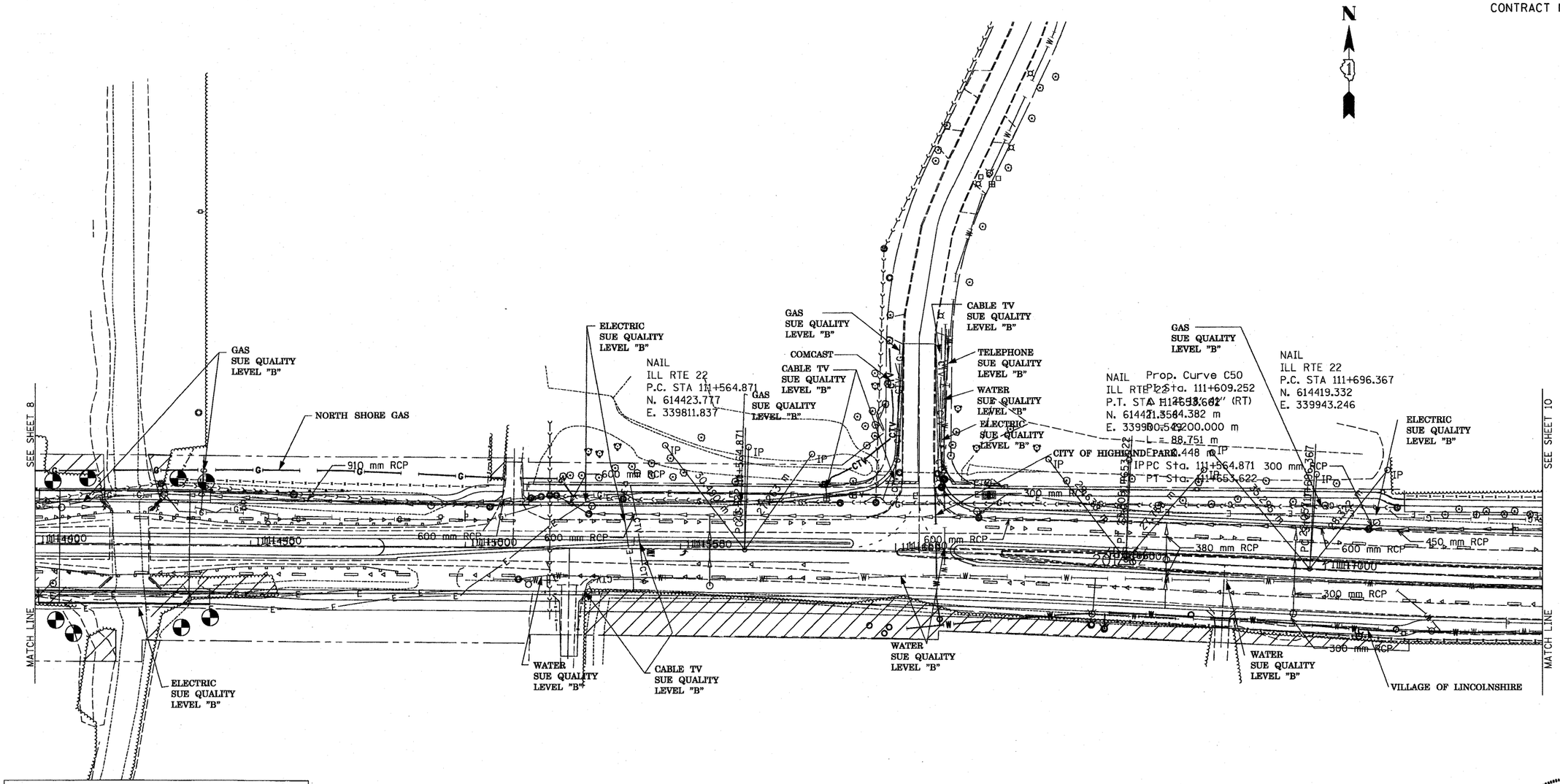
ILLINOIS DEPARTMENT OF TRANSPORTATION

IL RTE. 22
FROM EAST OF I-94 TO
WEST OF US-41

SCALE 1:500 (METRIC UNIT) DRAWN BY
DATE CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	109H
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60860



T T	TELEPHONE
W W	WATER
G G	GAS
CTV CTV CTV	CABLE TELEVISION
FO FO FO	FIBER OPTIC
E E	ELECTRIC

FOR SUE INFORMATION ONLY

KENNETH F. SLANINKA, Jr. 062-056488 LICENSED PROFESSIONAL ENGINEER STATE OF ILLINOIS

signature

7/28/10 date

license expires 11-30-11

TBE GROUP, INC.

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SUE Quality Level "B" Completed On : 3/20/02
Prepared By: JAC QA/QC By: RLC Final QA/QC By: KS
TBE Project No: IL09500117, IL09510404, IL09510418

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(312) 704-1970

REVISIONS	
NAME	DATE
NEW UTILITIES IN COLOR	7/28/10

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL RTE. 22
FROM EAST OF I-94 TO
WEST OF US-41

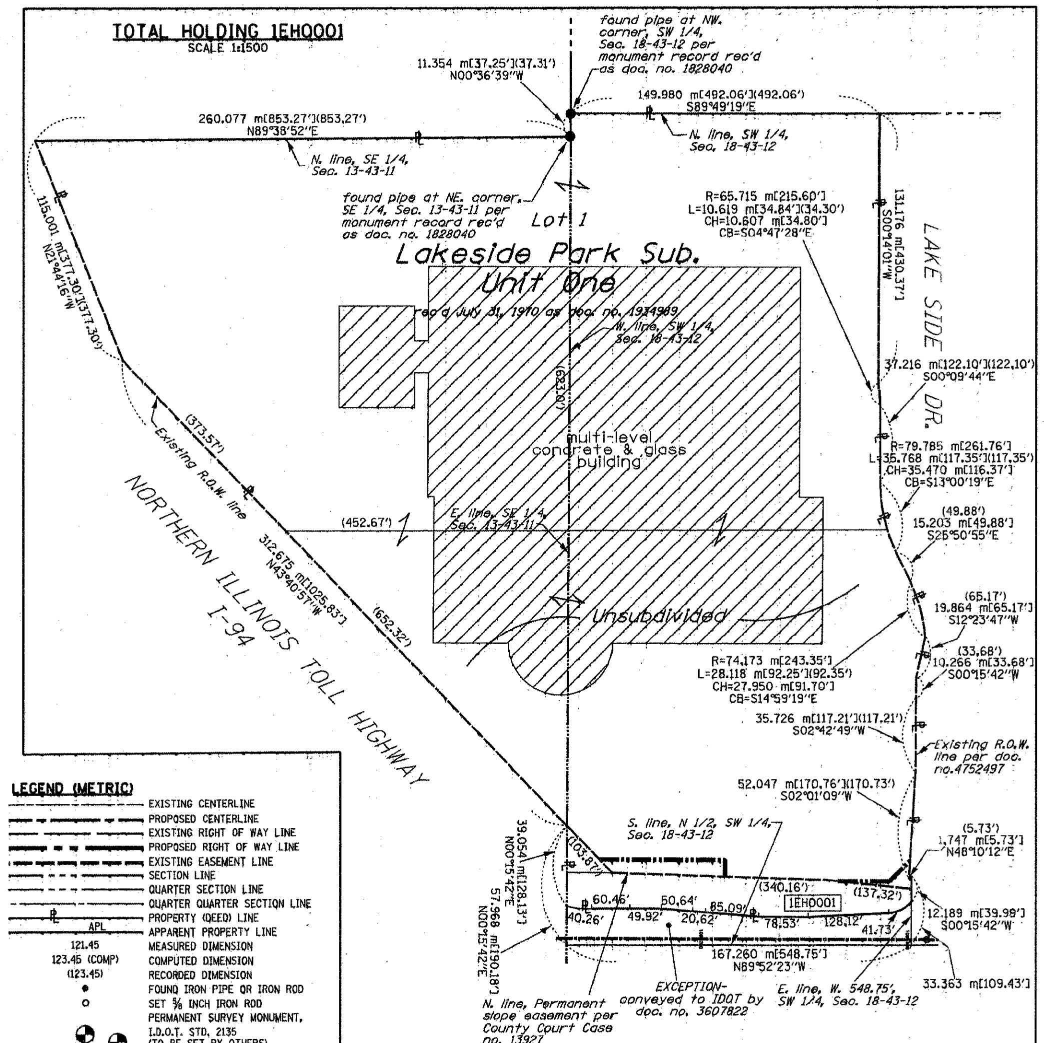
SCALE 1:500 (METRIC UNIT) DRAWN BY

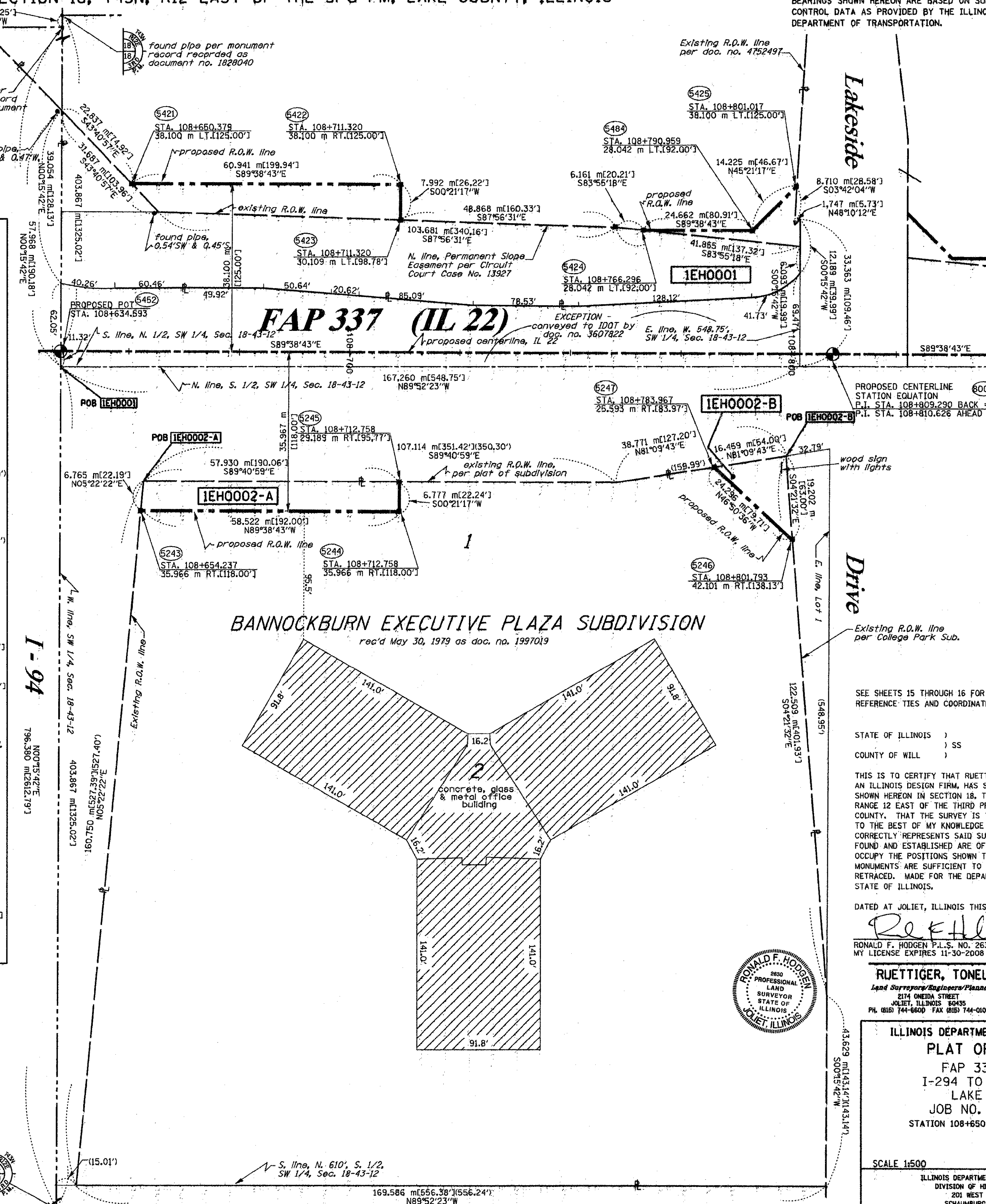
DATE CHECKED BY

PART OF THE SE 1/4 OF SECTION 13, T43N, R11 EAST & PART OF THE SW 1/4 OF SECTION 18, T43N, R12 EAST OF THE 3rd PM, LAKE COUNTY, ILLINOIS

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

PARCEL NO.	OWNER	TOTAL HOLDING ACRES m²	R.O.W. REQUIRED ACRES m²	PREVIOUSLY DEDICATED ACRES m²	REMAINDER ACRES m²	EASEMENTS TEMP ACRES m²	EASEMENTS PERM ACRES m²	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
1EH0001	LASALLE NATIONAL BANK, AS TRUSTEE, TRUST NO. 114121	27.599 111693	0.882 3569	0.752 3043	26.717 108124	N/A	N/A	N/A	16-18-300-033 16-18-300-034 15-13-400-026	08ED11
1EH0002	BANNOCKBURN EXECUTIVE PLAZA, L.L.C.	6.310 25537	A-0.097 393 B-0.039 158	N/A	6.174 24986	N/A	N/A	N/A	16-18-302-003	08ED08





SEE CONTINUATION ON SHEET 3 & 4

LEGEND (METRIC)

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APL — APPARENT PROPERTY LINE
- 121.45 — MEASURED DIMENSION
- 123.45 (COMP) — COMPUTED DIMENSION
- (123.45) — RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- SET 5/8 INCH IRON ROD
- PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- TEL — EXISTING TELEPHONE SPLICE BOX
- LGT — EXISTING STREET LIGHT
- EXISTING MAIL BOX
- WELL — EXISTING WELL HEAD
- STAKING OF PROPOSED RIGHT OF WAY. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M — STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- SECTION CORNER
- QUARTER SECTION CORNER

REVISIONS
5-21-07 / REVISED PLAT
11-01-07 / REVISED TOTAL HOLDING, 0001

SEE SHEETS 15 THROUGH 16 FOR MONUMENTATION REFERENCE TIES AND COORDINATES

STATE OF ILLINOIS)
) SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 18, TOWNSHIP 43 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY. THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS 22ND DAY OF Sept. 2008 A.D.

RONALD F. HODGEN P.L.S. NO. 2630
MY LICENSE EXPIRES 11-30-2008

RONALD F. HODGEN 2630 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS JOLIET, ILLINOIS

RUETTIGER, TONELLI & ASSOCIATES, INC.
Land Surveyors/Engineers/Planners/Landscape Architects/G.I.S. Consultants
2174 ONEIDA STREET, JOLIET, ILLINOIS 60435, PH. (815) 744-6600 FAX (815) 744-0101
2630 SOUTH WASHINGTON STREET SUITE 170, NAPERVILLE, ILLINOIS 60565, PH. (630) 420-7740 FAX (630) 420-7741

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP 337 (IL 22)
I-294 TO RIDGE ROAD
LAKE COUNTY
JOB NO. R91-023-01
STATION 108+650 TO STATION 108+810

SCALE 1:500 — SHEET 2 OF 16

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

SCANNED

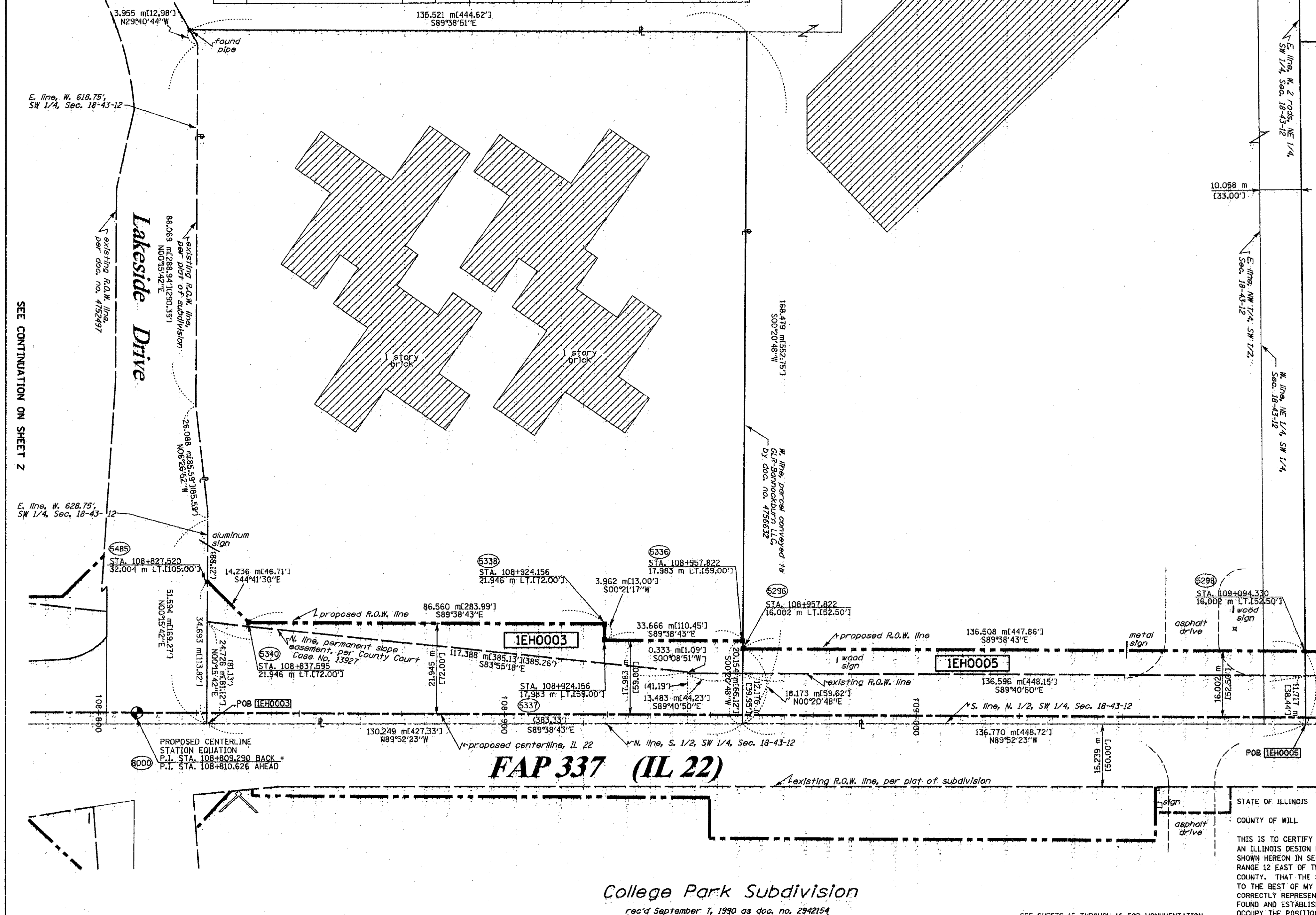
ROUTE: FAP 337 (IL 22) SECTION: COUNTY: LAKE JOB NO. R-91-023-01 RT&A 20020755.00 (IL 22)

sht2.dgn 9/22/2008 8:42:03 AM

FILE NAME =	USER NAME = $USER$	DESIGNED - LP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 22 PLAT OF HIGHWAYS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
W:\ILRTE22\.2009 REVISIONS\CADD Sheets\160860-sht-ROW.dgn		DRAWN - DC	REVISED -			337	20R-4	LAKE	232	110
	PLOT SCALE = $SCALE$	CHECKED - JP	REVISED -					CONTRACT NO. 60860		
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -		SCALE: 1"=50' SHEET NO. 110 OF 232 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT				

PART OF THE SW 1/4 OF SECTION 18, T43N, R12 EAST OF THE 3rd PM, LAKE COUNTY, ILLINOIS

PARCEL NO.	OWNER	TOTAL HOLDING ACRES m^2	R.O.W. REQUIRED ACRES m^2	PREVIOUSLY DEDICATED ACRES m^2	REMAINDER ACRES m^2	EASEMENTS TEMP ACRES m^2	EASEMENTS PERM ACRES m^2	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
1EH0003	BANNOCKBURN OFFICE COURT, LLC	5.515 22320	0.764 3092	0.579 2341	4.751 19228	N/A	N/A	N/A	16-18-300-018	08ED04
1EH0005	YPI BANNOCKBURN, LLC	15.530 62846	0.604 2446	0.404 1633	14.926 60400	N/A	N/A	N/A	16-18-300-029	08ED07



SEE CONTINUATION ON SHEET 2

SEE CONTINUATION ON SHEET 4

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

N

LEGEND (METRIC)

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
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- APL — APPARENT PROPERTY LINE
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- (123.45) — RECORDED DIMENSION
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- SET 5/8 INCH IRON ROD
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- CUT CROSS FOUND OR SET
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- TEL — EXISTING TELEPHONE SPLICE BOX
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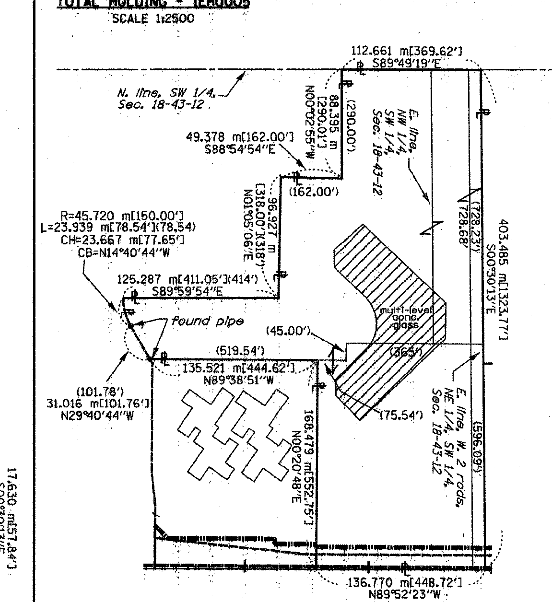
- M — STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- SECTION CORNER
- QUARTER SECTION CORNER

TOTAL HOLDING - 1EH0005

SCALE 1:2500



SEE CONTINUATION ON SHEET 6

SEE SHEETS 15 THROUGH 16 FOR MONUMENTATION REFERENCE TIES AND COORDINATES

REVISIONS
5-21-07 / REVISED SHEET INFO
10-19-07 / REVISED OWNER 0003 & 0005

STATE OF ILLINOIS)
) SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 18, TOWNSHIP 43 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY. THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS 22ND DAY OF Sept. 2008 A.D.

RONALD F. HODGEN P.L.S. NO. 2630
MY LICENSE EXPIRES 11-30-2008

RONALD F. HODGEN 2630 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS JOLIET, ILLINOIS

RUETTIGER, TONELLI & ASSOCIATES, INC.
Land Surveyors/Engineers/Planners/Landscape Architects/G.I.S. Consultants
2174 ONEIDA STREET, JOLIET, ILLINOIS 60435, PH. (815) 744-6600 FAX (815) 744-0101
2630 SOUTH WASHINGTON STREET SUITE 170, NAPERVILLE, ILLINOIS 60565, PH. (630) 420-7740 FAX (630) 420-7741

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP 337 (IL 22)
I-294 TO RIDGE ROAD
LAKE COUNTY
JOB NO. R91-023-01
STATION 108+800 TO STATION 109+100

SCALE 1:500 — SHEET 3 OF 16

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

SCANNED

ROUTE: FAP 337 (IL 22) SECTION: COUNTY: LAKE JOB NO. R-91-023-01 RT&A 20020755.00 (IL 22)

sht3.dgn 9/22/2008 8:37:13 AM

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		CHECKED - JP	REVISED -		
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -		SCALE: 1"=50' SHEET NO. 111 OF 232 SHEETS STA. TO STA.

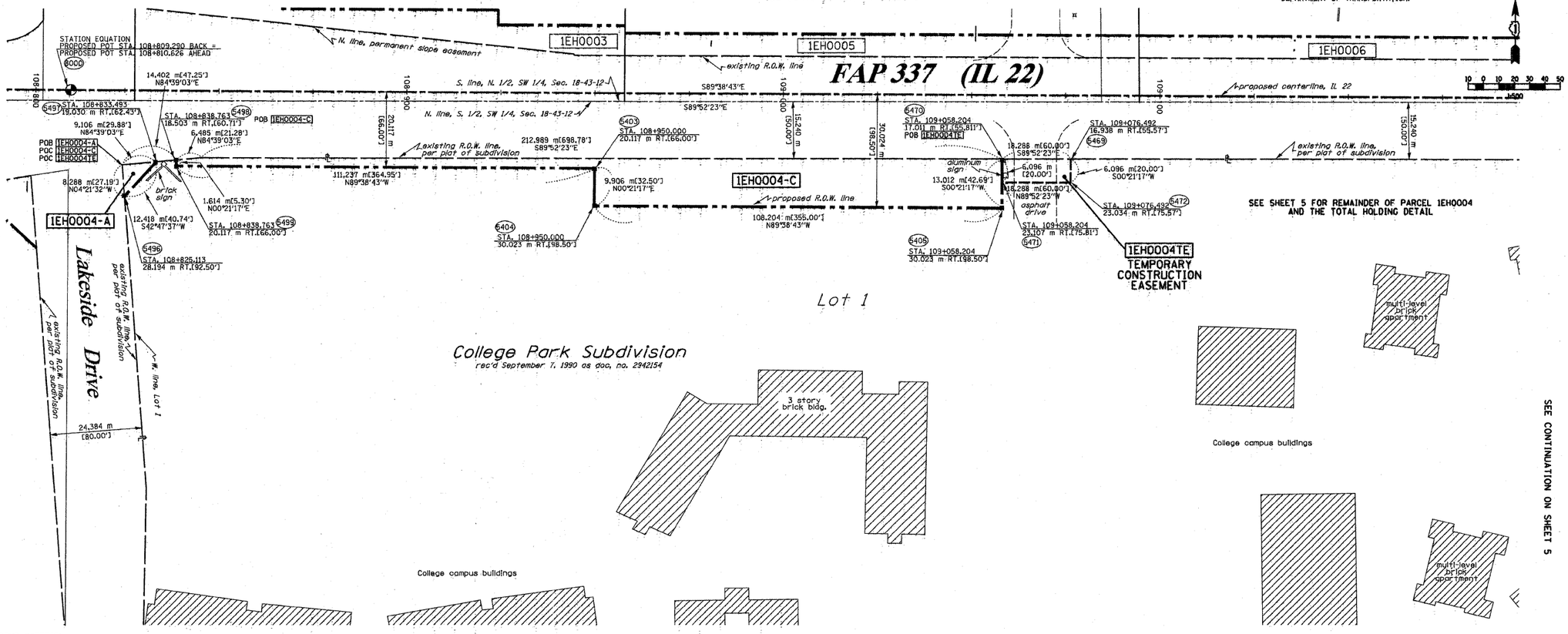
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	111
		CONTRACT NO. 60860		
		ILLINOIS FED. AID PROJECT		

PART OF THE SW 1/4 OF SECTION 18, T43N, R12 EAST OF THE 3rd PM, LAKE COUNTY, ILLINOIS

SEE CONTINUATION ON SHEET 3

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

N



LEGEND (METRIC)

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
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- SECTION LINE
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SECTION CORNER — QUARTER SECTION CORNER

PARCEL NO.	OWNER	TOTAL HOLDING	R.O.W. REQUIRED	PREVIOUSLY DEDICATED	REMAINDER	EASEMENTS TEMP.	EASEMENTS PERM	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
		ACRES m²	ACRES m²	ACRES m²	ACRES m²	ACRES m²	ACRES m²			
1EH0004	TRINITY INTERNATIONAL UNIVERSITY	116.075 469739	A-0.009 38 406 s.f. B-0.057 231 C-0.409 1656	N/A	115.600 467814	0.028 111	N/A	GRADING	16-18-304-001 16-18-304-004	

SEE SHEETS 15 THROUGH 16 FOR MONUMENTATION REFERENCE TIES AND COORDINATES

STATE OF ILLINOIS)
) SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 18, TOWNSHIP 43 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY. THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS 22nd DAY OF Sept., 2008 A.D.

RONALD F. HODGEN P.L.S. NO. 2630
MY ILLICENSE EXPIRES 11-30-2008

RONALD F. HODGEN 2630 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS JOLIET, ILLINOIS

REVISIONS:
5-21-01 / MISC. REVISIONS

RUETTIGER, TONELLI & ASSOCIATES, INC.
Land Surveyors-Engineers-Planners-Landscape Architects-G.I.S. Consultants
2174 ONEIDA STREET JOLIET, ILLINOIS 60435 PH. (815) 744-6000 FAX (815) 744-0101
2830 SOUTH WASHINGTON STREET SUITE 170 NAPERVILLE, ILLINOIS 60565 PH. (630) 420-7740 FAX (630) 420-7741

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP 337 (IL 22)
I-294 TO RIDGE ROAD
LAKE COUNTY
JOB NO. R91-023-01
STATION 108+800 TO STATION 109+175

SCALE 1:500 — SHEET 4 OF 16

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

sht4.dgn 9/22/2008 7:44:27 AM

ROUTE: FAP 337 (IL 22) SECTION: COUNTY: LAKE JOB NO. R-91-023-01 RT&A 20020755.00 (IL 22)

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	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 22
PLAT OF HIGHWAYS

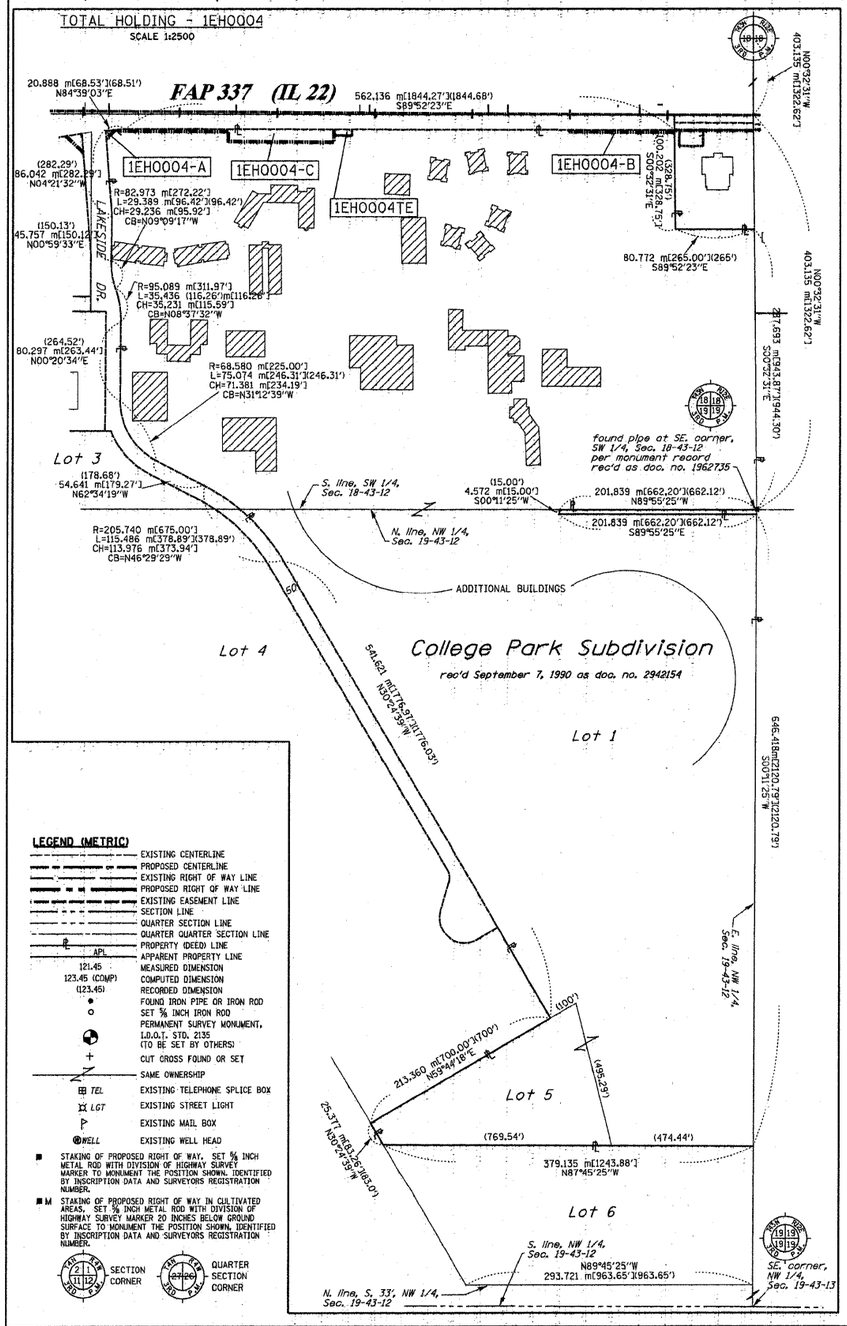
SCALE: 1"=50' | SHEET NO. 112 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	112
		CONTRACT NO. 60860		
		ILLINOIS FED. AID PROJECT		

PART OF THE SW 1/4 OF SECTION 18, T43N, R12 EAST OF THE 3rd PM, LAKE COUNTY, ILLINOIS

TOTAL HOLDING - 1EH0004

SCALE 1:2500



LEGEND (METRIC)

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
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- + — CUT CROSS FOUND OR SET
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- LGT — EXISTING STREET LIGHT
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- ■ — STAKING OF PROPOSED RIGHT OF WAY. SET ⅝ INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
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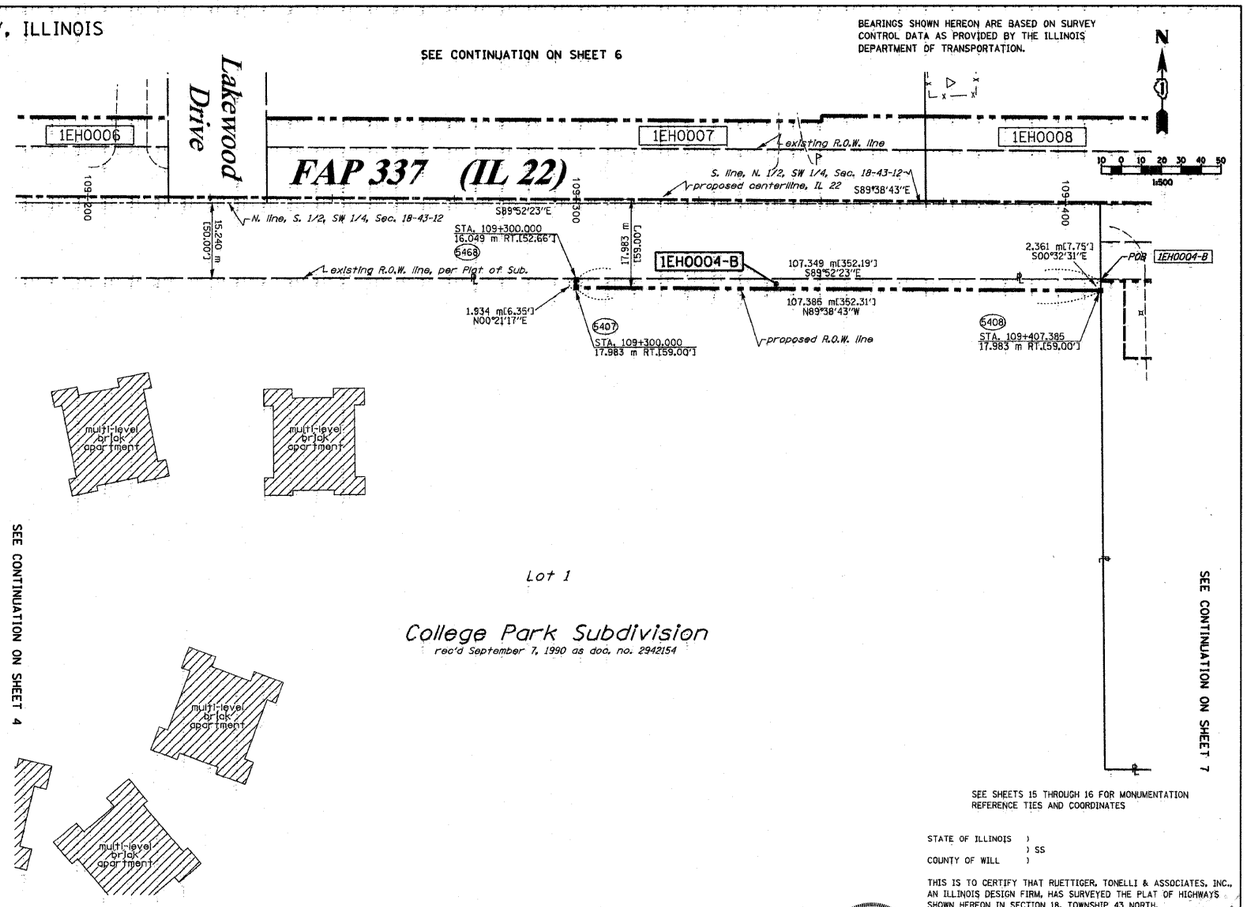
SECTION CORNER — QUARTER SECTION CORNER

SEE CONTINUATION ON SHEET 4

SEE CONTINUATION ON SHEET 6

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.



SEE CONTINUATION ON SHEET 7

SEE SHEETS 15 THROUGH 16 FOR MONUMENTATION REFERENCE TIES AND COORDINATES

STATE OF ILLINOIS)
) SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 18, TOWNSHIP 43 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY. THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

RONALD F. HODGEN 2630 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS JOLIET, ILLINOIS

DATED AT JOLIET, ILLINOIS THIS 22ND DAY OF Sept. 2008 A.D.

RONALD F. HODGEN P.L.S. NO. 2630
MY LICENSE EXPIRES 11-30-2008

PARCEL NO.	OWNER	TOTAL HOLDING ACRES / m²	R.O.W. REQUIRED ACRES / m²	PREVIOUSLY DEDICATED ACRES / m²	REMAINDER ACRES / m²	EASEMENTS TEMP ACRES / m²	EASEMENTS PERM ACRES / m²	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
1EH0004	TRINITY INTERNATIONAL UNIVERSITY	116.075 469739	A-0.009 38 A06a.f. B-0.057 231 C-0.409 1656	N/A	115.600 467814	0.028 111	N/A	GRADING	16-18-304-001 16-18-304-004	

RUETTIGER, TONELLI & ASSOCIATES, INC.
Land Surveyors/Engineers/Planners/Landscape Architects/GIS Consultants
8174 ONEIDA STREET JOLIET, ILLINOIS 60435 PH. (815) 744-6600 FAX (815) 744-0101
2630 SOUTH WASHINGTON STREET SUITE 170 NAPERVILLE, ILLINOIS 60565 PH. (630) 420-7740 FAX (630) 420-7741

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP 337 (IL 22)
I-294 TO RIDGE ROAD
LAKE COUNTY
JOB NO. R91-023-01
STATION 109+190 TO STATION 109+410

SCALE 1:500 SHEET 5 OF 16

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISIONS:
5-21-07 / MISC. REVISIONS

ROUTE: FAP 337 (IL 22) SECTION: COUNTY: LAKE JOB NO. R-91-023-01 RT&A 20020755.00 (IL 22)

SCANNED

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		DRAWN - DC	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - JP	REVISED -
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

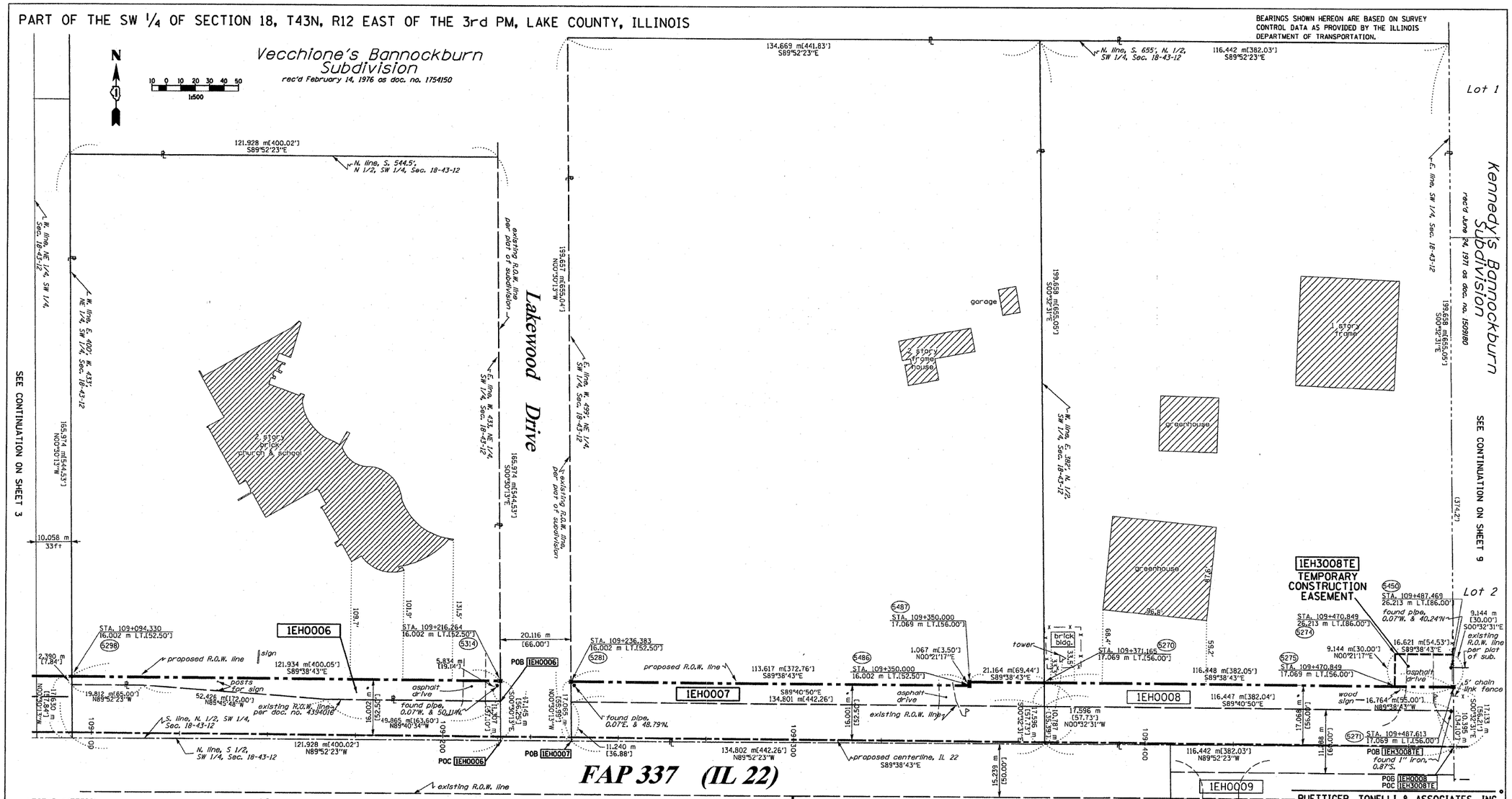
IL ROUTE 22
PLAT OF HIGHWAYS

SCALE: 1"=50' | SHEET NO. 113 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	113
		CONTRACT NO. 60860		
		ILLINOIS FED. AID PROJECT		

PART OF THE SW ¼ OF SECTION 18, T43N, R12 EAST OF THE 3rd PM, LAKE COUNTY, ILLINOIS

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.



SEE CONTINUATION ON SHEET 3

SEE CONTINUATION ON SHEET 9

SEE CONTINUATION ON SHEET 4, 5 & 7

LEGEND (METRIC)

— - — - —	EXISTING CENTERLINE
—■—■—■—	PROPOSED CENTERLINE
—— —— ——	EXISTING RIGHT OF WAY LINE
━━ ■ ■ ━━	PROPOSED RIGHT OF WAY LINE
━ ━ ━ ━	EXISTING EASEMENT LINE
—— - - - ——	SECTION LINE
—— - - - ——	QUARTER SECTION LINE
- —— - ——	QUARTER QUARTER SECTION LINE
——℄——	PROPERTY (DEED) LINE
——APL——	APPARENT PROPERTY LINE
121.45	MEASURED DIMENSION
123.45 (COMP)	COMPUTED DIMENSION
(123.45)	RECORDED DIMENSION
●	FOUND IRON PIPE OR IRON ROD
○	SET ⅝ INCH IRON ROD
◕	PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
+	CUT CROSS FOUND OR SET
——Z——	SAME OWNERSHIP
⊞ TEL	EXISTING TELEPHONE SPLICE BOX
¤ LGT	EXISTING STREET LIGHT
⚑	EXISTING MAIL BOX
Ⓦ WELL	EXISTING WELL HEAD
■	STAKING OF PROPOSED RIGHT OF WAY. SET ⅝ INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
■M	STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET ⅝ INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
T4N R4W 2 1 11 12 3RD P.M.	SECTION CORNER
T4N R4W 27 26 3RD P.M.	QUARTER SECTION CORNER

* DENOTES THE DISTANCE FROM THE RIGHT OF WAY LINE TO THE PROPOSED CENTERLINE

SEE SHEETS 15 THROUGH 16 FOR MONUMENTATION REFERENCE TIES AND COORDINATES

PARCEL NO.	OWNER	TOTAL HOLDING ACRES m²	R.O.W. REQUIRED ACRES m²	PREVIOUSLY DEDICATED ACRES m²	REMAINDER ACRES m²	EASEMENTS TEMP ACRES m²	EASEMENTS PERM ACRES m²	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
1EH0006	NORTH SHORE UNITARIAN CHURCH	4.613 18667	0.136 552	N/A	4.477 18115	N/A	N/A	N/A	16-18-300-031	
1EH0007	MARC A. BUSHALA	6.647 26899	0.565 2287	0.367 1484	6.082 24612	N/A	N/A	N/A	16-18-300-006	
1EH0008	THOMAS E. & DONNA L. BEESON	5.744 23247	0.500 2022	0.305 1233	5.244 21225	N/A	N/A	N/A	16-18-300-007	5580370
1EH3008	THOMAS E. & DONNA L. BEESON	5.244 21225	N/A	N/A	5.244 21225	0.038 154	N/A	GRADING	16-18-300-035	

RECEIVED elc
NOV 1 9 2009
PLATS & LEGALS

RONALD F. HODGEN 2630

REVISED
2-7-08/ADDED AQUIRED BY DOC. TO 0008
4-18-07/CHANGED 0008TE TO 3008TE
5-21-07/MISC REVISIONS
2-26-09/REVISED 0006TAKE & TH
11-19-2009 REVISED 1EH3008 PIN

STATE OF ILLINOIS)
) SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 18, TOWNSHIP 43 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY. THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS 19TH DAY OF NOVEMBER, 2009 A.D.

RONALD F. HODGEN P.L.S. NO. 2630
MY LICENSE EXPIRES 11-30-2010

RUETTIGER, TONELLI & ASSOCIATES, INC.
Land Surveyors/Engineers/Planners/Landscape Architects/G.I.S. Consultants
2174 ONEIDA STREET
JOLIET, ILLINOIS 60435
PH. (815) 744-6600 FAX (815) 744-0101
2630 SOUTH WASHINGTON STREET SUITE 170
NAPERVILLE, ILLINOIS 60565
PH. (630) 420-7740 FAX (630) 420-7741

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP 337 (IL 22)
I-294 TO RIDGE ROAD
LAKE COUNTY
JOB NO. R91-023-01
STATION 109+080 TO STATION 109+490

SCALE 1:500
SHEET 6 OF 16

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

ROUTE: FAP 337 (IL 22) SECTION: COUNTY: LAKE JOB NO. R-91-023-01 *RT&A 20020755.00 (IL 22)*

11/19/2009 3:08:53 PM N:\Tech\2002\0755\sht6.dgn

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	PLOT SCALE = $SCALE$	CHECKED - JP	REVISED -
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 22
PLAT OF HIGHWAYS

SCALE: 1"=50' | SHEET NO. 114 OF 232 SHEETS | STA. TO STA.

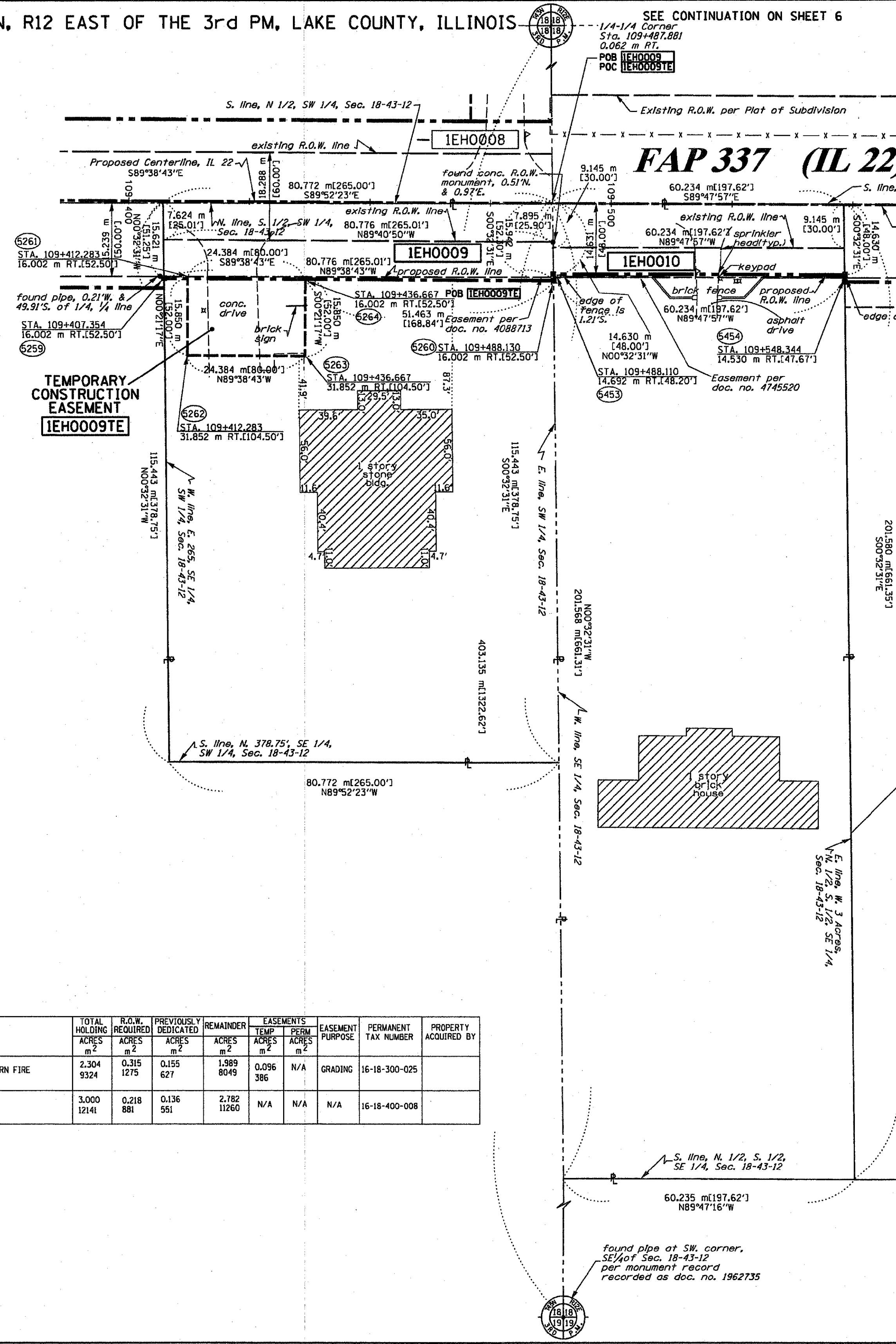
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	114

CONTRACT NO. 60860
ILLINOIS FED. AID PROJECT

PART OF THE SW 1/4 & SE 1/4 OF SECTION 18, T43N, R12 EAST OF THE 3rd PM, LAKE COUNTY, ILLINOIS

SEE CONTINUATION ON SHEET 6

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.



SEE CONTINUATION ON SHEET 5

SEE CONTINUATION ON SHEET 8

N

1:500

LEGEND (METRIC)

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APL — APPARENT PROPERTY LINE
- 121.45 — MEASURED DIMENSION
- 123.45 (COMP) — COMPUTED DIMENSION
- (123.45) — RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- SET 5/8 INCH IRON ROD
- PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- TEL — EXISTING TELEPHONE SPLICE BOX
- LGT — EXISTING STREET LIGHT
- EXISTING MAIL BOX
- WELL — EXISTING WELL HEAD
- ■ STAKING OF PROPOSED RIGHT OF WAY. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- SECTION CORNER
- QUARTER SECTION CORNER

PARCEL NO.	OWNER	TOTAL HOLDING ACRES m²	R.O.W. REQUIRED ACRES m²	PREVIOUSLY DEDICATED ACRES m²	REMAINDER ACRES m²	EASEMENTS TEMP ACRES m²	EASEMENTS PERM ACRES m²	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
1EH0009	THE DEERFIELD-BANNOCKBURN FIRE PROTECTION DISTRICT	2.304 9324	0.315 1275	0.155 627	1.989 8049	0.096 386	N/A	GRADING	16-18-300-025	
1EH0010	SALIM & LUCY FAKHOURY	3.000 12141	0.218 881	0.136 551	2.782 11260	N/A	N/A	N/A	16-18-400-008	

SEE SHEETS 15 THROUGH 16 FOR MONUMENTATION REFERENCE TIES AND COORDINATES

STATE OF ILLINOIS)
) SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 18, TOWNSHIP 43 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY. THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

RONALD F. HODGEN 2630 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS JOLIET, ILLINOIS

DATED AT JOLIET, ILLINOIS THIS 10th DAY OF MARCH, 2009 A.D.

RONALD F. HODGEN P.L.S. NO. 2630
MY LICENSE EXPIRES 11-30-2010

RUETTIGER, TONELLI & ASSOCIATES, INC.
Land Surveyors/Engineers/Planners/Landscape Architects/G.I.S. Consultants
2174 ONEIDA STREET, JOLIET, ILLINOIS 60435, PH. (815) 744-6600 FAX (815) 744-0101
2630 SOUTH WASHINGTON STREET SUITE 170, NAPERVILLE, ILLINOIS 60565, PH. (630) 420-7740 FAX (630) 420-7741

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP 337 (IL 22)
I-294 TO RIDGE ROAD
LAKE COUNTY
JOB NO. R91-023-01
STATION 109+400 TO STATION 109+550

SCALE 1:500 — SHEET 7 OF 16

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISIONS
5-21-07 / MISC. REVISIONS
2-7-08 / REVISED OWNER 0010
3-10-09 / REVISED PARCEL 0010 TABLE

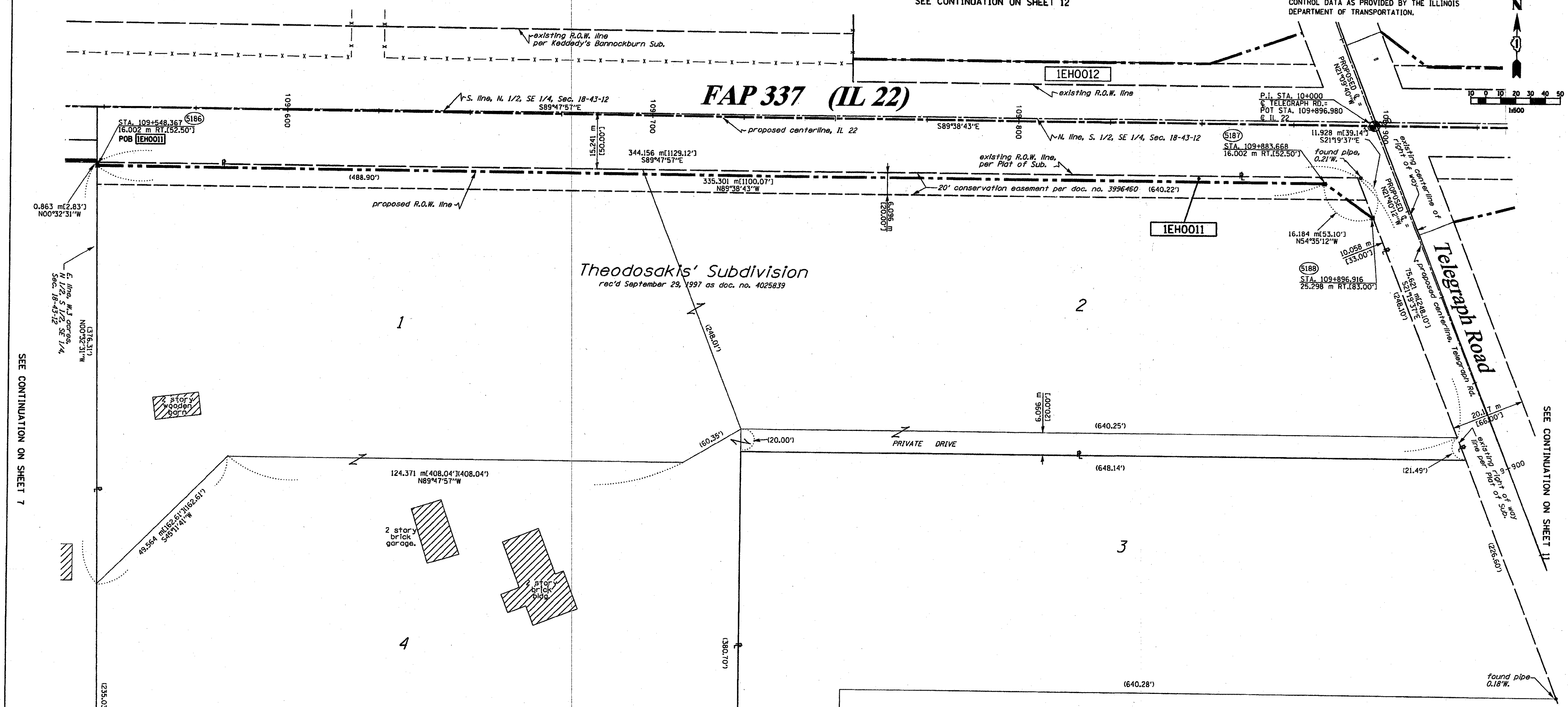
ROUTE: FAP 337 (IL 22) SECTION: COUNTY: LAKE JOB NO. R-91-023-01 *RT&A 20020755.00 (IL 22)*

FILE NAME = W:\ILRTE22\.2009 REVISIONS\CADD Sheets\D160860-sht-ROW.dgn	USER NAME = $USER$	DESIGNED - LP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 22 PLAT OF HIGHWAYS	F.A.P RTE. 337	SECTION 20R-4	COUNTY LAKE	TOTAL SHEETS 232, SHEET NO. 115
	PLOT SCALE = $SCALE$	DRAWN - DC	REVISED -		SCALE: 1"=50'	SHEET NO. 115 OF 232 SHEETS	STA. TO STA.	CONTRACT NO. 60860	
	PLOT DATE = 5/15/2010	CHECKED - JP	REVISED -				ILLINOIS FED. AID PROJECT		
		DATE - 05/14/2010	REVISED -						

PART OF THE SE 1/4 OF SECTION 18, T43N, R12 EAST OF THE 3rd PM, LAKE COUNTY, ILLINOIS

SEE CONTINUATION ON SHEET 12

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.



SEE CONTINUATION ON SHEET 7

SEE CONTINUATION ON SHEET 11

PARCEL NO.	OWNER	TOTAL HOLDING ACRES m²	R.O.W. REQUIRED ACRES m²	PREVIOUSLY DEDICATED ACRES m²	REMAINDER ACRES m²	EASEMENTS TEMP ACRES m²	EASEMENTS PERM ACRES m²	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
1EH0011	JOHN C. THEODOSAKIS AS TRUSTEE OF THE JOHN C. THEODOSAKIS TRUST UNDER AGREEMENT DATED APRIL 30, 2003 AS TO AN UNDIVIDED 1/2 INTEREST AND HELEN A. THEODOSAKIS AS TRUSTEE OF THE HELEN A. THEODOSAKIS TRUST UNDER AGREEMENT DATED APRIL 30, 2003 AS TO AN UNDIVIDED 1/2 INTEREST	11.529 46656	0.124 501	N/A	11.405 46155	N/A	N/A	N/A	16-18-402-002 16-18-402-003	

SEE SHEETS 15 THROUGH 16 FOR MONUMENTATION REFERENCE TIES AND COORDINATES

■ STAKING OF PROPOSED RIGHT OF WAY. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

■M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

SECTION CORNER

QUARTER SECTION CORNER

LEGEND (METRIC)

EXISTING CENTERLINE
PROPOSED CENTERLINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
EXISTING EASEMENT LINE
SECTION LINE
QUARTER SECTION LINE
QUARTER QUARTER SECTION LINE
PROPERTY (DEED) LINE
APL APPARENT PROPERTY LINE
121.45 MEASURED DIMENSION
123.45 (COMP) COMPUTED DIMENSION
(123.45) RECORDED DIMENSION
● FOUND IRON PIPE OR IRON ROD
○ SET 5/8 INCH IRON ROD

PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
CUT CROSS FOUND OR SET
SAME OWNERSHIP
TEL EXISTING TELEPHONE SPLICE BOX
LGT EXISTING STREET LIGHT
P EXISTING MAIL BOX
WELL EXISTING WELL HEAD

RECEIVED
FEB 10 2009
PLATS & LEGALS

REVISED:
5-21-07 / MISC. REVISIONS
2-6-09 / REVISED TH FOR PARCEL 0011

STATE OF ILLINOIS)
) SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 18, TOWNSHIP 43 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY. THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS 10TH DAY OF February 2009 A.D.

RONALD F. HODGEN 2630 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS JOLIET, ILLINOIS

RONALD F. HODGEN P.L.S. NO. 2630
MY LICENSE EXPIRES 11-30-2010

RUETTIGER, TONELLI & ASSOCIATES, INC.
Land Surveyors/Engineers/Planners/Landscape Architects/G.I.S. Consultants
2174 ONEIDA STREET, JOLIET, ILLINOIS 60435, PH. (815) 744-6600 FAX (815) 744-0101
2630 SOUTH WASHINGTON STREET SUITE 170, NAPERVILLE, ILLINOIS 60565, PH. (630) 420-7740 FAX (630) 420-7741

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP 337 (IL 22)
I-294 TO RIDGE ROAD
LAKE COUNTY
JOB NO. R91-023-01
STATION 109+540 TO STATION 109+900

SCALE 1:500 SHEET 8 OF 16

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

ROUTE: FAP 337 (IL 22) SECTION: COUNTY: LAKE JOB NO. R-91-023-01 RT&A 20020755.00 (IL 22)

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	PLOT SCALE = $SCALE$	DRAWN - DC	REVISED -
		CHECKED - JP	REVISED -
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 22
PLAT OF HIGHWAYS

SCALE: 1"=50' | SHEET NO. 116 OF 232 SHEETS | STA. TO STA.

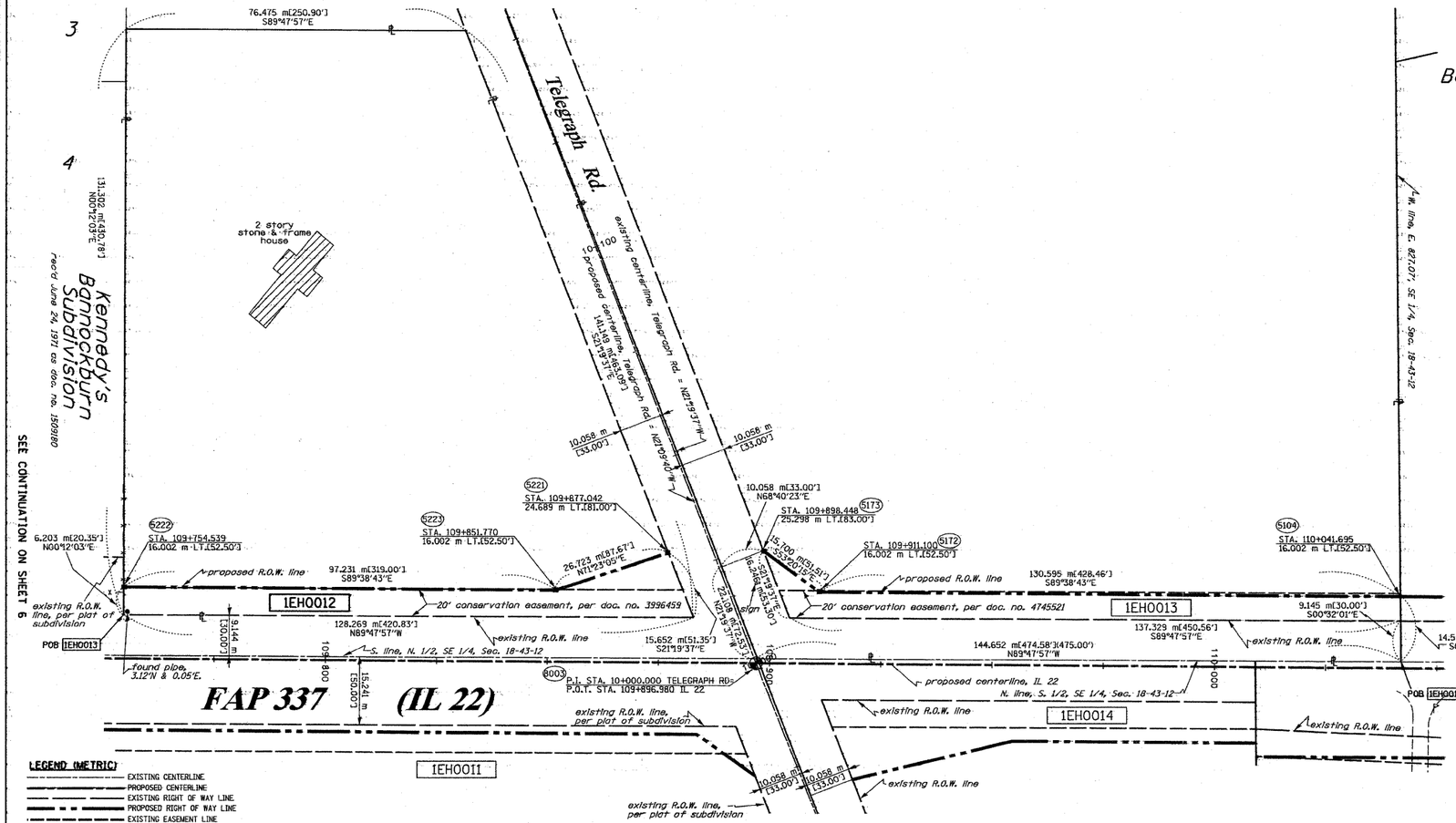
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	116

CONTRACT NO. 60860

ILLINOIS FED. AID PROJECT

PART OF THE SE 1/4 OF SECTION 18, T43N, R12 EAST OF THE 3rd PM, LAKE COUNTY, ILLINOIS

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.



Bannockburn Brae Subdivision
rec'd May 17, 1990 as doc. no. 2906297

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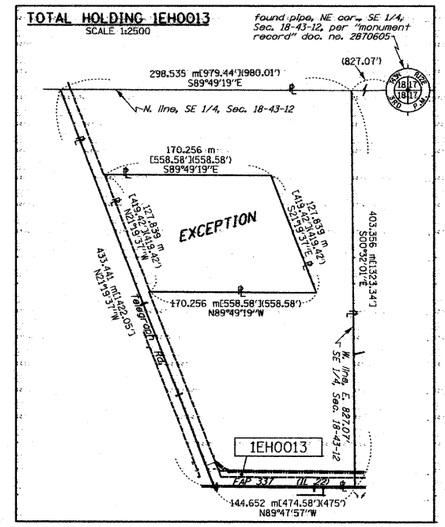

SEE CONTINUATION ON SHEET 6

SEE CONTINUATION ON SHEET 10

SEE SHEETS 15 THROUGH 16 FOR MONUMENTATION REFERENCE TIES AND COORDINATES

STATE OF ILLINOIS)
) SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 18, TOWNSHIP 43 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY. THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF. THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS 12th DAY OF Sept. 2008.

RONALD F. HODGEN P.L.S. NO. 2630
MY LICENSE EXPIRES 11-30-2008

RONALD F. HODGEN 2630 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS JOLIET, ILLINOIS

LEGEND (METRIC)

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APL — APPARENT PROPERTY LINE
- 121.45 — MEASURED DIMENSION
- 123.45 (COMP) — COMPUTED DIMENSION
- (123.45) — RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- SET 5/8 INCH IRON ROD PERMANENT SURVEY MONUMENT.
- I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- TEL — EXISTING TELEPHONE SPLICE BOX
- LGT — EXISTING STREET LIGHT
- EXISTING MAIL BOX
- WELL — EXISTING WELL HEAD
- STAKING OF PROPOSED RIGHT OF WAY. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
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SECTION CORNER — QUARTER SECTION CORNER

SEE CONTINUATION ON SHEET 8 & 11

PARCEL NO.	OWNER	TOTAL HOLDING ACRES / m²	R.O.W. REQUIRED ACRES / m²	PREVIOUSLY DEDICATED ACRES / m²	REMAINDER ACRES / m²	EASEMENTS TEMP ACRES / m²	EASEMENTS PERM ACRES / m²	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
1EH0012	JAMES C. EDGAR, UNDIVIDED 1/2 INTEREST & JAMES C. EDGAR, TRUSTEE OF JANE E. EDGAR ESTATE TRUST, UNDIVIDED 1/2 INTEREST	3.322 / 13442	0.220 / 892	N/A	3.102 / 12550	N/A	N/A	N/A	16-18-400-007	5570993
1EH0013	NORTHSTAR TRUST CO. TR. 3331	17.079 / 69115	0.569 / 2301	0.366 / 1482	16.510 / 66814	N/A	N/A	N/A	16-18-400-003 16-18-400-002	5570993

REVISED:
5-21-07 / MISC. REVISIONS
2-7-08 / REVISED OWNER 0012 & 0013, ADDED PROPERTY ACQUIRED DOC. FOR 0013

RUETTIGER, TONELLI & ASSOCIATES, INC.
Land Surveyors/Engineers/Planners/Landscape Architects/G.I.S. Consultants
2174 ONEIDA STREET, JOLIET, ILLINOIS 60435, PH. (815) 744-6020 FAX (815) 744-0101
2630 SOUTH WASHINGTON STREET SUITE 170, NAPERVILLE, ILLINOIS 60565, PH. (630) 420-7740 FAX (630) 420-7741

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP 337 (IL 22)
I-294 TO RIDGE ROAD
LAKE COUNTY
JOB NO. R91-023-01
STATION 109+750 TO STATION 110+050

SCALE 1:500 — SHEET 9 OF 16

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

SCANNED

sht9.dgn 9/22/2008 9:00:36 AM

ROUTE: FAP 337 (IL 22) SECTION: COUNTY: LAKE JOB NO. R-91-023-01 R7&A 20020755.00 (IL 22)

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		DRAWN - DC	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - JP	REVISED -	
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -	

IL. ROUTE 22
PLAT OF HIGHWAYS
SCALE: 1"=50' | SHEET NO. 117 OF 232 SHEETS | STA. | TO STA.

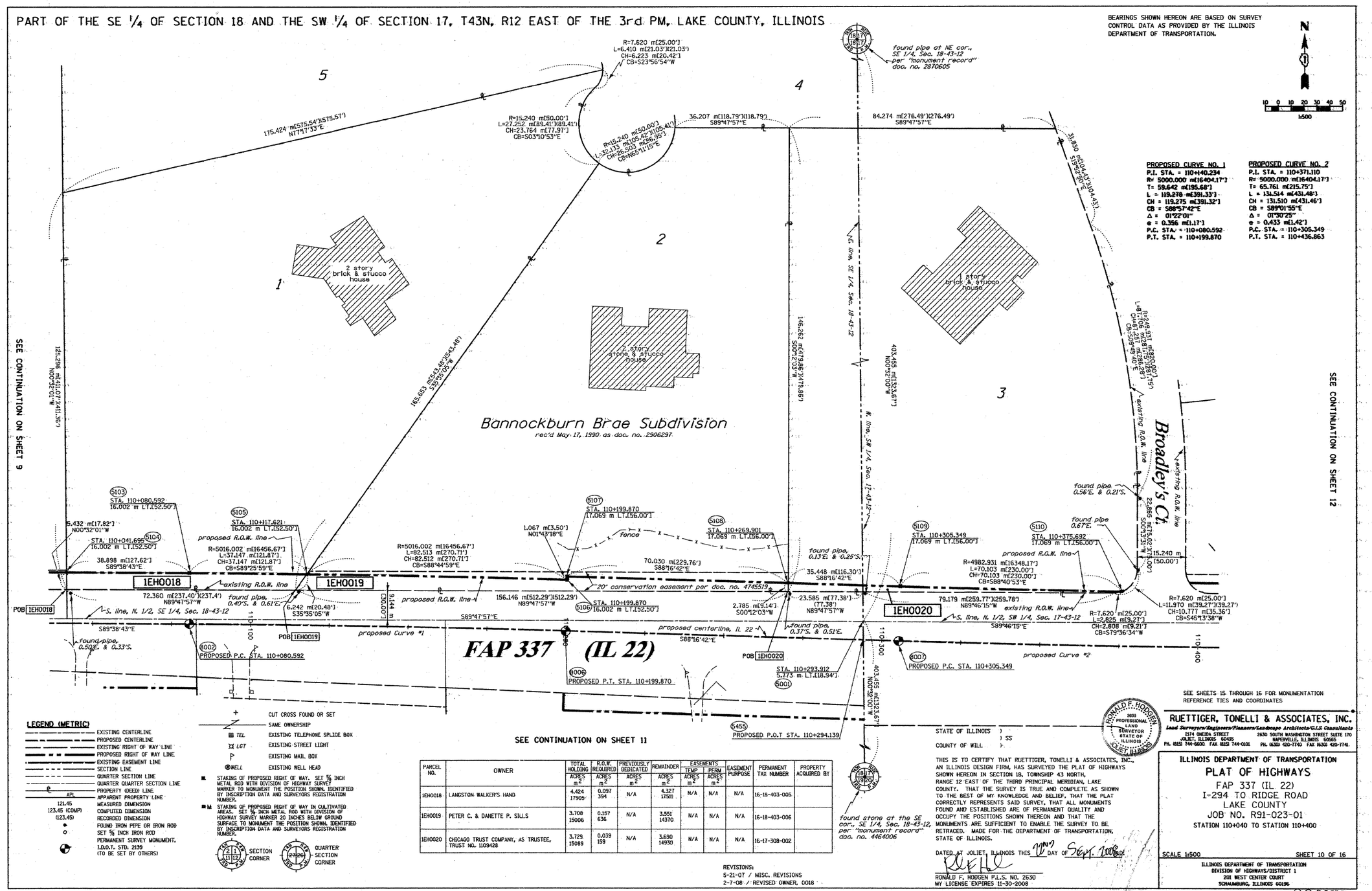
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	117
		CONTRACT NO. 60860		
		ILLINOIS	FED. AID PROJECT	

PART OF THE SE 1/4 OF SECTION 18 AND THE SW 1/4 OF SECTION 17, T43N, R12 EAST OF THE 3rd PM, LAKE COUNTY, ILLINOIS

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

N

10 0 10 20 30 40 50
1:500



PROPOSED CURVE NO. 1
P.I. STA. = 110+140.234
R= 5000.000 m[16404.17']
T= 59.642 m[195.68']
L = 119.278 m[391.33']
CH = 119.275 m[391.32']
CB = S86°57'42"E
Δ = 01°22'01"
e = 0.356 m[1.17']
P.C. STA. = 110+080.592
P.T. STA. = 110+199.870

PROPOSED CURVE NO. 2
P.I. STA. = 110+371.110
R= 5000.000 m[16404.17']
T= 65.761 m[215.75']
L = 131.514 m[431.48']
CH = 131.510 m[431.46']
CB = S89°01'55"E
Δ = 01°30'25"
e = 0.433 m[1.42']
P.C. STA. = 110+305.349
P.T. STA. = 110+436.863

LEGEND (METRIC)

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- 121.45 MEASURED DIMENSION
- 123.45 (COMP) COMPUTED DIMENSION
- (123.45) RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- SET ⅝ INCH IRON ROD
- PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- TEL EXISTING TELEPHONE SPLICE BOX
- LGT EXISTING STREET LIGHT
- EXISTING MAIL BOX
- WELL EXISTING WELL HEAD
- STAKING OF PROPOSED RIGHT OF WAY. SET ⅝ INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET ⅝ INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- SECTION CORNER
- QUARTER SECTION CORNER

PARCEL NO.	OWNER	TOTAL HOLDING ACRES / m²	R.O.W. REQUIRED ACRES / m²	PREVIOUSLY DEDICATED ACRES / m²	REMAINDER ACRES / m²	EASEMENTS TEMP ACRES / m²	EASEMENTS PERM ACRES / m²	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
1EH0018	LANGSTON WALKER'S HAND	4.424 17905	0.097 394	N/A	4.327 17511	N/A	N/A	N/A	16-18-403-005	
1EH0019	PETER C. & DANETTE P. SILLS	3.708 15006	0.157 636	N/A	3.551 14370	N/A	N/A	N/A	16-18-403-006	
1EH0020	CHICAGO TRUST COMPANY, AS TRUSTEE, TRUST NO. 1103428	3.729 15089	0.039 159	N/A	3.690 14930	N/A	N/A	N/A	16-17-308-002	

REVISIONS:
5-21-07 / MISC. REVISIONS
2-7-08 / REVISED OWNER, 0018

STATE OF ILLINOIS)
) SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 18, TOWNSHIP 43 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY. THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS 10th DAY OF Sept. 2008 A.D.

RONALD F. HODGEN P.L.S. NO. 2630
MY LICENSE EXPIRES 11-30-2008

RONALD F. HODGEN 2630 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS

SEE SHEETS 15 THROUGH 16 FOR MONUMENTATION REFERENCE TIES AND COORDINATES

RUETTIGER, TONELLI & ASSOCIATES, INC.
Land Surveyors/Engineers/Planners/Landscape Architects/GIS Consultants
214 ONEIDA STREET, JOLIET, ILLINOIS 60435, PH. (815) 744-6600 FAX (815) 744-0101
2630 SOUTH WASHINGTON STREET SUITE 170, NAPERVILLE, ILLINOIS 60565, PH. (630) 420-7740 FAX (630) 420-7741

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP 337 (IL 22)
I-294 TO RIDGE ROAD
LAKE COUNTY
JOB NO. R91-023-01
STATION 110+040 TO STATION 110+400

SCALE 1:500 SHEET 10 OF 16

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

__sht10.dgn 9/22/2008 9:01:27 AM

ROUTE: FAP 337 (IL 22) SECTION: COUNTY: LAKE JOB NO. R-91-023-01 RT&A 20020755.00 (IL 22)

SCANNED

FILE NAME = W:\ILRTE22_2009 REVISIONS\CADD Sheets\D160860-sht-ROW.dgn	USER NAME = $USER$	DESIGNED - LP	REVISED -
		DRAWN - DC	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - JP	REVISED -
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 22
PLAT OF HIGHWAYS

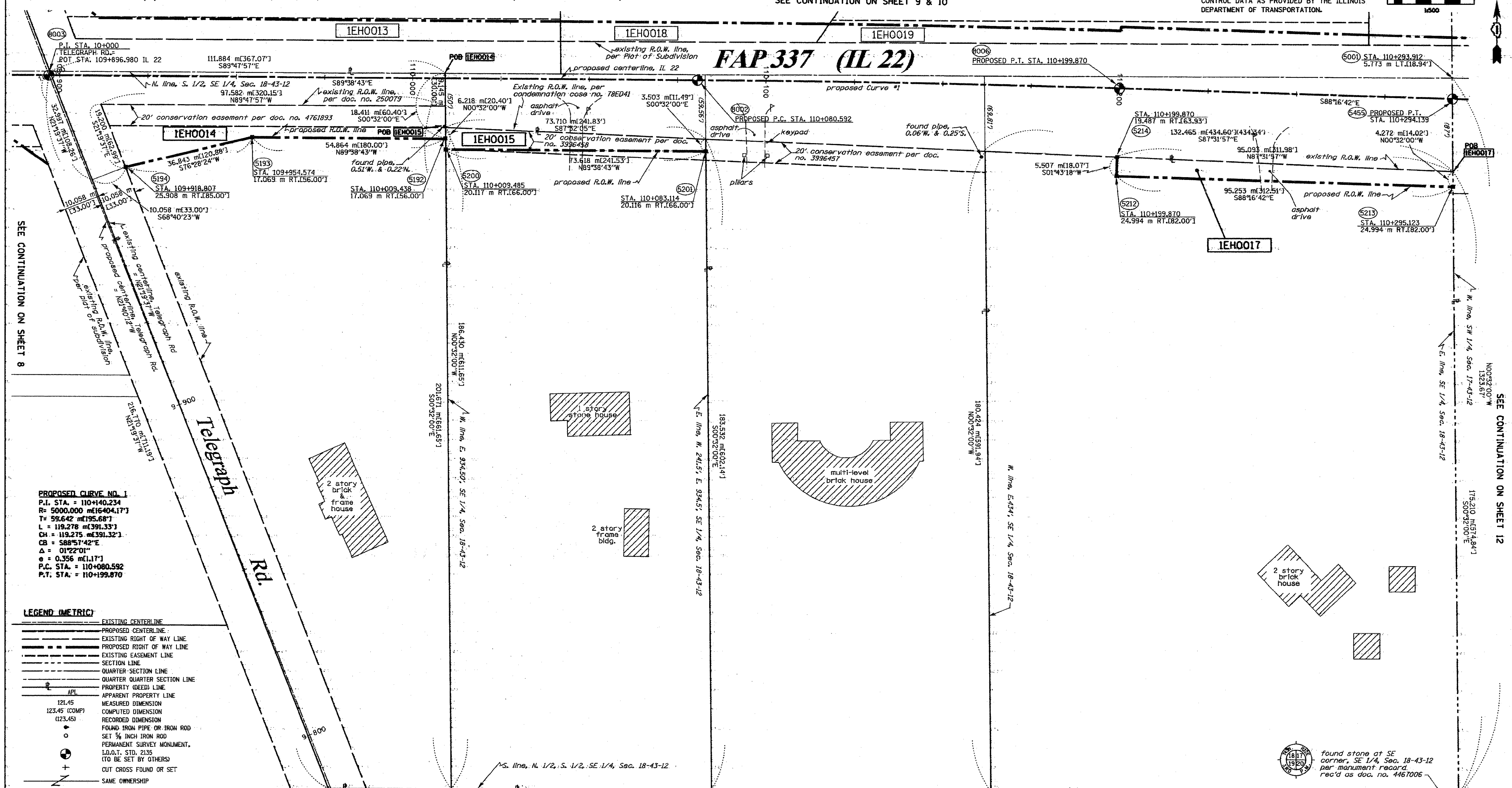
SCALE: 1"=50' | SHEET NO. 118 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	118
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		

PART OF THE SE 1/4 OF SECTION 18, T43N, R12 EAST OF THE 3rd PM, LAKE COUNTY, ILLINOIS

SEE CONTINUATION ON SHEET 9 & 10

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.



SEE CONTINUATION ON SHEET 8

SEE CONTINUATION ON SHEET 12

PROPOSED CURVE NO. 1
P.I. STA. = 110+140.234
R= 5000.000 m[16404.17']
T= 59.642 m[195.68']
L = 119.278 m[391.33']
CH = 119.275 m[391.32']
CB = S88°57'42"E
Δ = 01°22'01"
e = 0.356 m[1.17']
P.C. STA. = 110+080.592
P.T. STA. = 110+199.870

LEGEND (METRIC)

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APL — APPARENT PROPERTY LINE
- 121.45 — MEASURED DIMENSION
- 123.45 (COMP) — COMPUTED DIMENSION
- (123.45) — RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- SET 5/8 INCH IRON ROD
- PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- TEL — EXISTING TELEPHONE SPLICE BOX
- LGT — EXISTING STREET LIGHT
- EXISTING MAIL BOX
- WELL — EXISTING WELL HEAD

■ STAKING OF PROPOSED RIGHT OF WAY. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

■M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

SECTION CORNER — QUARTER SECTION CORNER

PARCEL NO.	OWNER	TOTAL HOLDING ACRES m²	R.O.W. REQUIRED ACRES m²	PREVIOUSLY DEDICATED ACRES m²	REMAINDER ACRES m²	EASEMENTS TEMP ACRES m²	EASEMENTS PERM ACRES m²	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
1EH0014	TAE HWAN KIM & JEONG HWA KIM	3.658 14802	0.561 2270	0.302 1220	3.097 12532	N/A	N/A	N/A	16-18-400-010	
1EH0015	JOHN & KAREN VANDERBILT	3.365 13616	0.088 358	N/A	3.277 13258	N/A	N/A	N/A	16-18-400-033	
1EH0017	GHODRAT SARRAFI	5.812 23522	0.115 465	N/A	5.697 23057	N/A	N/A	N/A	16-18-400-036	

STATE OF ILLINOIS)
) SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 18, TOWNSHIP 43 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY. THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS 22ND DAY OF SEPT. 2008 A.D.

RONALD F. HODGEN P.L.S. NO. 2630
MY LICENSE EXPIRES 11-30-2008

RONALD F. HODGEN 2630 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS JOLIET, ILLINOIS

SEE SHEETS 15 THROUGH 16 FOR MONUMENTATION REFERENCE TIES AND COORDINATES

RUETTIGER, TONELLI & ASSOCIATES, INC.
Land Surveyors/Engineers/Planners/Landscape Architects/G.I.S. Consultants
2174 ONEIDA STREET, JOLIET, ILLINOIS 60435, PH. (815) 744-6600 FAX (815) 744-0101
2630 SOUTH WASHINGTON STREET SUITE 170, NAPERVILLE, ILLINOIS 60565, PH. (630) 420-7740 FAX (630) 420-7741

REVISIONS:
5-21-07 / MISC. REVISIONS
2-8-08 / ADDED LABEL TO 0017

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP 337 (IL 22)
I-294 TO RIDGE ROAD
LAKE COUNTY
JOB NO. R91-023-01
STATION 109+875 TO STATION 110+300

SCALE 1:500 — SHEET 11 OF 16

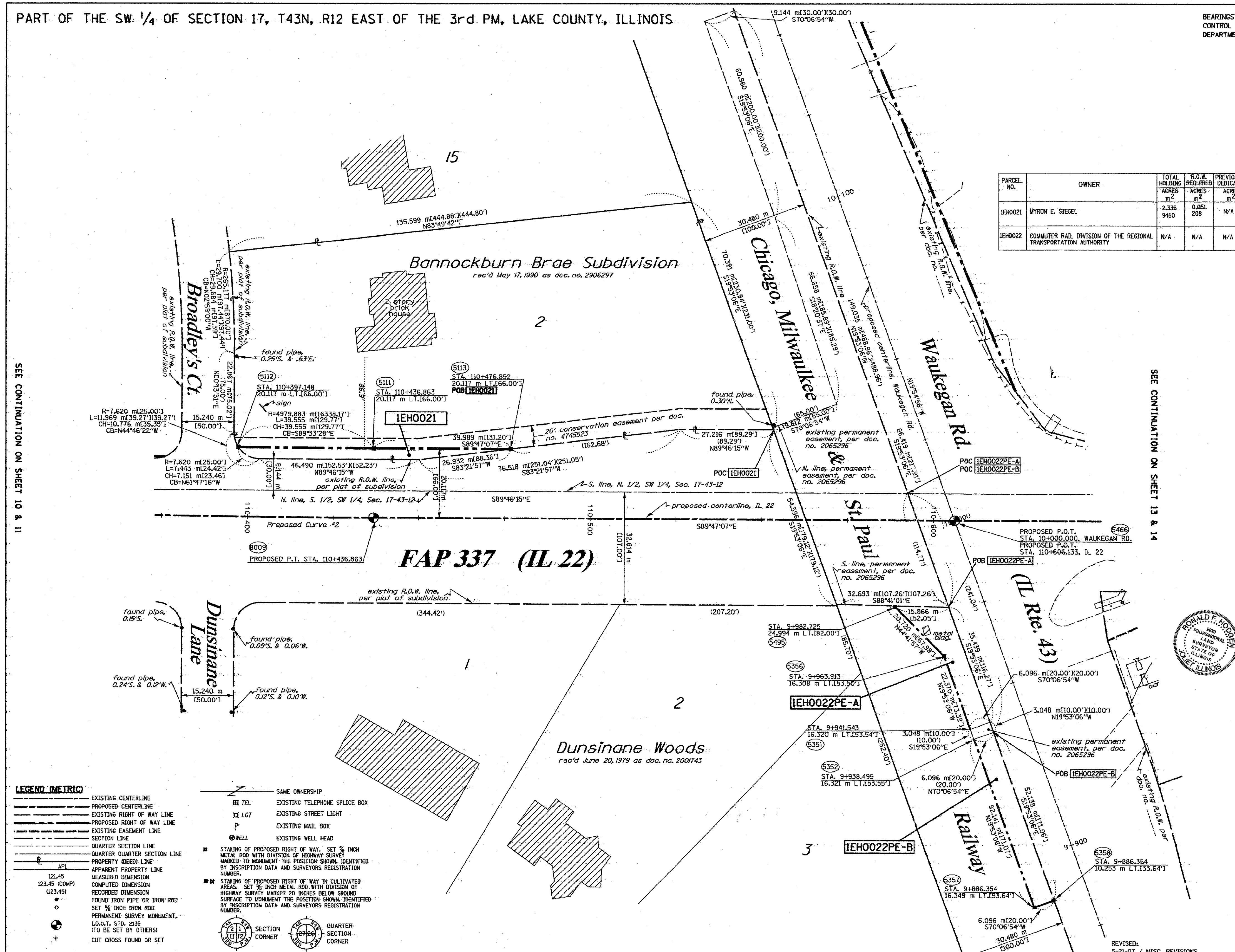
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

ROUTE: FAP 337 (IL 22) — SECTION: — COUNTY: LAKE — JOB NO. R-91-023-01 — RT&A 20020755.00 (IL 22)

sht11.dgn 9/22/2008 9:07:36 AM

PART OF THE SW 1/4 OF SECTION 17, T43N, R12 EAST OF THE 3rd PM, LAKE COUNTY, ILLINOIS

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.



PARCEL NO.	OWNER	TOTAL HOLDING ACRES m²	R.O.W. REQUIRED ACRES m²	PREVIOUSLY DEDICATED ACRES m²	REMAINDER ACRES m²	EASEMENTS TEMP ACRES m²	EASEMENTS PERM ACRES m²	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
1EH0021	MYRON E. SIEGEL	2.335 9450	0.051 208	N/A	2.284 9424	N/A	N/A	N/A	16-17-309-007	
1EH0022	COMMUTER RAIL DIVISION OF THE REGIONAL TRANSPORTATION AUTHORITY	N/A	N/A	N/A	N/A	N/A	A-0.072 289 B-0.079 318		16-17-300-027	

PROPOSED CURVE NO. 2

P.I. STA. = 110+371.110
R= 5000.000 m[16404.17']
T= 65.761 m[215.75']
L = 131.514 m[431.48']
CH = 131.510 m[431.46']
CB = S89°01'55"E
Δ = 01°30'25"
e = 0.433 m[1.42']
P.C. STA. = 110+305.349
P.T. STA. = 110+436.863

SEE SHEETS 15 THROUGH 16 FOR MONUMENTATION REFERENCE TIES AND COORDINATES

STATE OF ILLINOIS)
) SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 17, TOWNSHIP 43 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY. THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS 22nd DAY OF SEPT. 2008 A.D.

RONALD F. HODGEN P.L.S. NO. 2630
MY LICENSE EXPIRES 11-30-2008

RUETTIGER, TONELLI & ASSOCIATES, INC.
Land Surveyors/Engineers/Planners/Landscape Architects/G.I.S. Consultants
2174 ONEIDA STREET, JOLIET, ILLINOIS 60435, PH. (815) 744-6600 FAX (815) 744-0101
2630 SOUTH WASHINGTON STREET SUITE 170, NAPERVILLE, ILLINOIS 60565, PH. (630) 420-7740 FAX (630) 420-7741

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP 337 (IL 22)
I-294 TO RIDGE ROAD
LAKE COUNTY
JOB NO. R91-023-01
STATION 110+390 TO STATION 110+625

SHEET 12 OF 16 SHEET 12 OF 16

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

SCANNED

sht12.dgn 9/22/2008 9:28:11 AM

ROUTE: FAP 337 (IL 22) SECTION: COUNTY: LAKE JOB NO. R-91-023-01 RT&A 20020755.00 (IL 22)

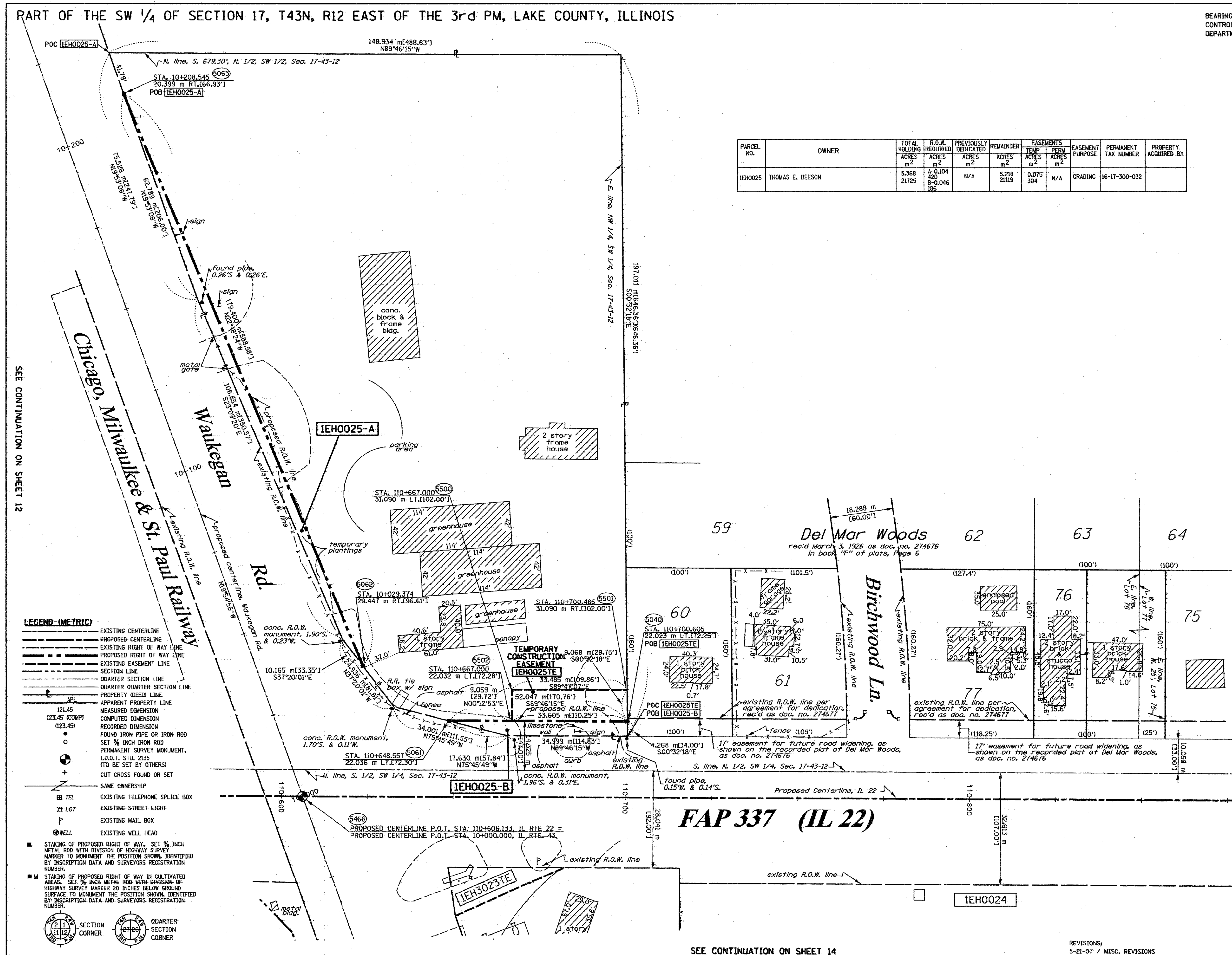
FILE NAME = W:\ILRTE22\.2009 REVISIONS\CADD Sheets\160860-sht-ROW.dgn	USER NAME = $USER$	DESIGNED - LP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 22 PLAT OF HIGHWAYS
		DRAWN - DC	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - JP	REVISED -		
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -		SCALE: 1"=50' SHEET NO. 120 OF 232 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	120

CONTRACT NO. 60860
ILLINOIS FED. AID PROJECT

PART OF THE SW 1/4 OF SECTION 17, T43N, R12 EAST OF THE 3rd PM, LAKE COUNTY, ILLINOIS

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.



PARCEL NO.	OWNER	TOTAL HOLDING	R.O.W. REQUIRED	PREVIOUSLY DEDICATED	REMAINDER	EASEMENTS TEMP	EASEMENTS PERM	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
		ACRES m2	ACRES m2	ACRES m2	ACRES m2	ACRES m2	ACRES m2			
1EH0025	THOMAS E. BEESON	5.368 21725	A-0.104 420 B-0.046 186	N/A	5.218 21119	0.075 304	N/A	GRADING	16-17-300-032	

SEE CONTINUATION ON SHEET 12

SEE SHEETS 15 THROUGH 16 FOR MONUMENTATION REFERENCE TIES AND COORDINATES

STATE OF ILLINOIS)
) SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 17, TOWNSHIP 43 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY. THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS 22nd DAY OF SEPT. 2008 A.D.

RONALD F. HODGEN P.L.S. NO. 2630
MY LICENSE EXPIRES 11-30-2008

RUETTIGER, TONELLI & ASSOCIATES, INC.
Land Surveyors/Engineers/Planners/Landscape Architects/G.I.S. Consultants
2174 ONEIDA STREET, JOLIET, ILLINOIS 60435, PH. (815) 744-6600 FAX (815) 744-0101
2630 SOUTH WASHINGTON STREET SUITE 170, NAPERVILLE, ILLINOIS 60565, PH. (630) 420-7740 FAX (630) 420-7741

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP 337 (IL 22)
I-294 TO RIDGE ROAD
LAKE COUNTY
JOB NO. R91-023-01
STATION 110+550 TO STATION 110+875

SCALE 1:500 SHEET 13 OF 16

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

SEE CONTINUATION ON SHEET 14

REVISIONS:
5-21-07 / MISC. REVISIONS
2-7-08 / REVISED 0023TE LABEL TO 3023TE

sht13.dgn 9/22/2008 9:29:31 AM

ROUTE: FAP 337 (IL 22) SECTION: COUNTY: LAKE JOB NO. R-91-023-01 RT&A 20020755.00 (IL 22)

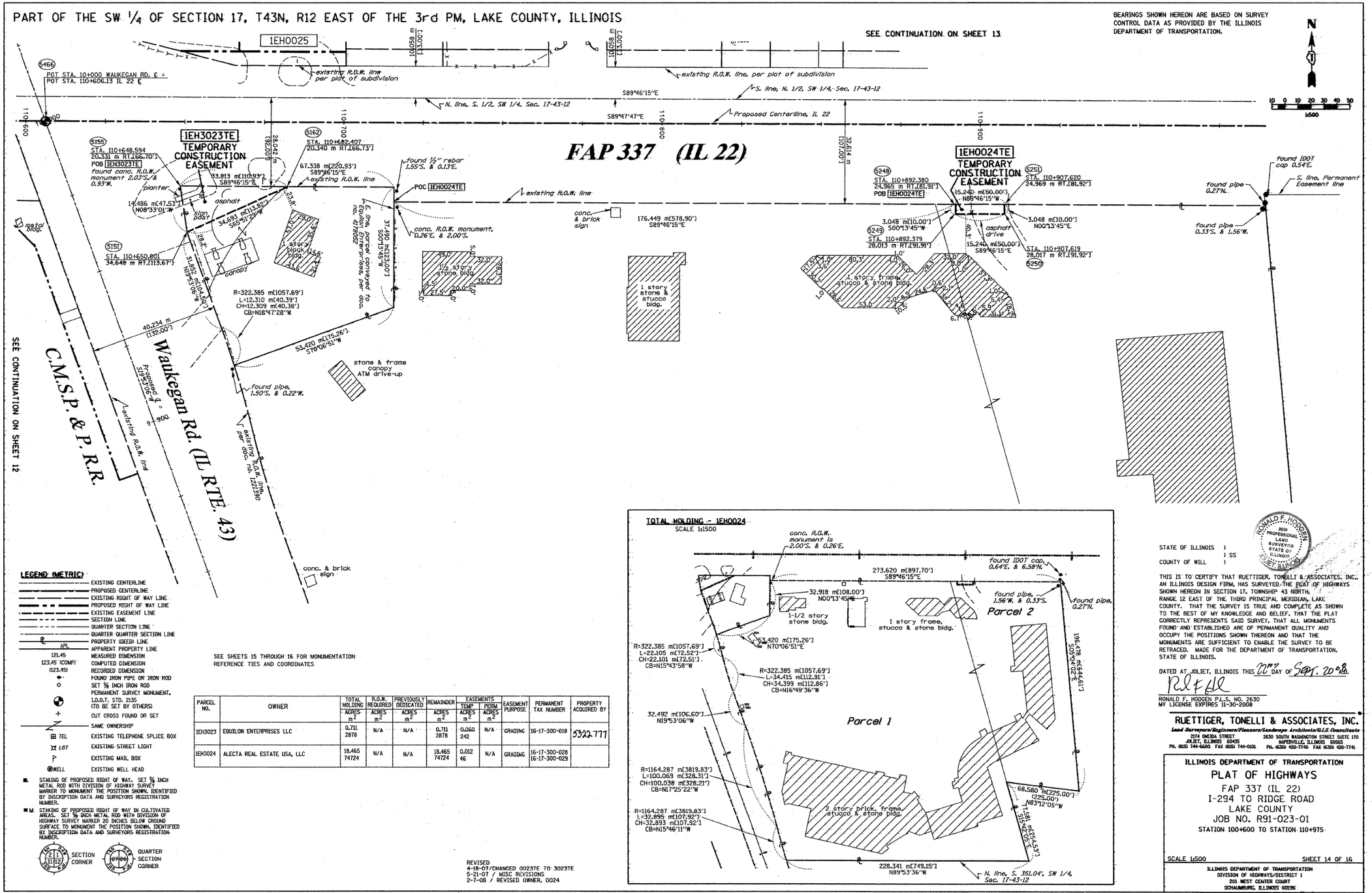
SCANNED

FILE NAME =	USER NAME = $USER$	DESIGNED - LP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 22 PLAT OF HIGHWAYS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
W:\ILRTE22\.2009 REVISIONS\CADD Sheets\	160860-sht-ROW.dgn	DRAWN - DC	REVISED -			337	20R-4	LAKE	232	121
	PLOT SCALE = $SCALE$	CHECKED - JP	REVISED -					CONTRACT NO. 60860		
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -		SCALE: 1"=50' SHEET NO. 121 OF 232 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

PART OF THE SW 1/4 OF SECTION 17, T43N, R12 EAST OF THE 3rd PM, LAKE COUNTY, ILLINOIS

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

SEE CONTINUATION ON SHEET 13



LEGEND (METRIC)

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- 121.45 MEASURED DIMENSION
- 123.45 (COMP) COMPUTED DIMENSION
- (123.45) RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- SET ⅝ INCH IRON ROD PERMANENT SURVEY MONUMENT.
- I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- TEL EXISTING TELEPHONE SPLICE BOX
- LGT EXISTING STREET LIGHT
- EXISTING MAIL BOX
- WELL EXISTING WELL HEAD

■ STAKING OF PROPOSED RIGHT OF WAY. SET ⅝ INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

■M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET ⅝ INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

SECTION CORNER — QUARTER SECTION CORNER

SEE SHEETS 15 THROUGH 16 FOR MONUMENTATION REFERENCE TIES AND COORDINATES

PARCEL NO.	OWNER	TOTAL HOLDING ACRES / m²	R.O.W. REQUIRED ACRES / m²	PREVIOUSLY DEDICATED ACRES / m²	REMAINDER ACRES / m²	EASEMENTS TEMP ACRES / m²	EASEMENTS PERM ACRES / m²	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
1EH3023	EQUILON ENTERPRISES LLC	0.711 2878	N/A	N/A	0.711 2878	0.060 242	N/A	GRADING	16-17-300-018	5332.777
1EH0024	ALECTA REAL ESTATE USA, LLC	18.465 74724	N/A	N/A	18.465 74724	0.012 46	N/A	GRADING	16-17-300-028 16-17-300-029	

REVISED
4-18-07/CHANGED 0023TE TO 3023TE
5-21-07 / MISC REVISIONS
2-7-08 / REVISED OWNER, 0024

STATE OF ILLINOIS)
) SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 17, TOWNSHIP 43 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY. THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS 22nd DAY OF Sept. 2008 A.D.

RONALD F. HODGEN P.L.S. NO. 2630
MY LICENSE EXPIRES 11-30-2008

RONALD F. HODGEN 2630 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS

RUETTIGER, TONELLI & ASSOCIATES, INC.
Land Surveyors/Engineers/Planners/Landscape Architects/G.I.S. Consultants
2174 OMEGA STREET, JOLIET, ILLINOIS 60435, PH. (815) 744-6600 FAX (815) 744-0101
2630 SOUTH WASHINGTON STREET SUITE 170, NAPERVILLE, ILLINOIS 60565, PH. (630) 420-1740 FAX (630) 420-1741

ILLINOIS DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS

FAP 337 (IL 22)
I-294 TO RIDGE ROAD
LAKE COUNTY
JOB NO. R91-023-01
STATION 100+600 TO STATION 110+975

SCALE 1:500 — SHEET 14 OF 16

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

SCANNED

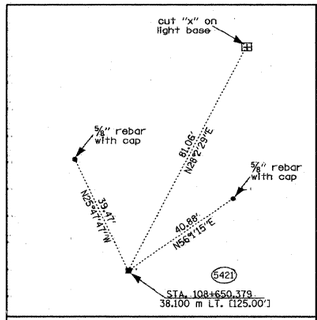
FILE NAME = W:\ILRTE22_2009 REVISIONS\CADD Sheets\D160860-sht-ROW.dgn	USER NAME = $USER$	DESIGNED - LP	REVISED -
		DRAWN - DC	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - JP	REVISED -
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

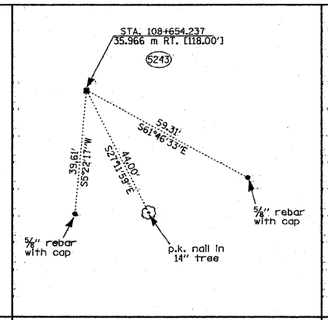
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

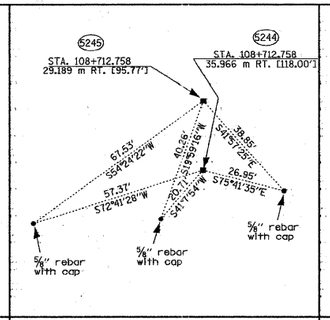
IL ROUTE 22
PLAT OF HIGHWAYS

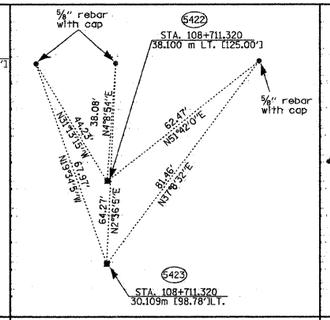
SCALE: 1"=50' | SHEET NO. 122 OF 232 SHEETS | STA. | TO STA.

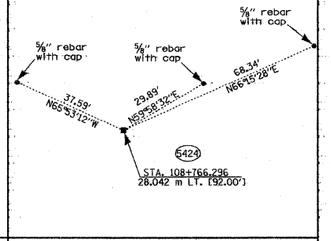
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	122
		CONTRACT NO. 60860		
		ILLINOIS	FED. AID PROJECT	

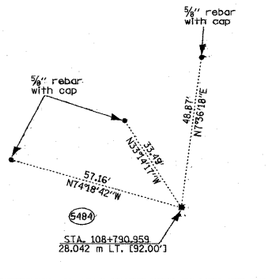


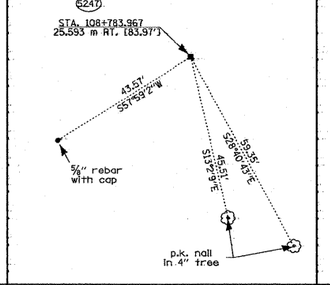


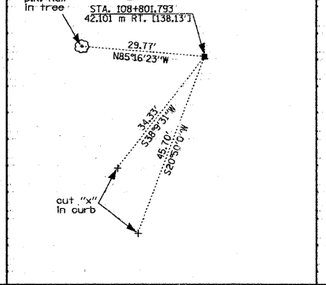


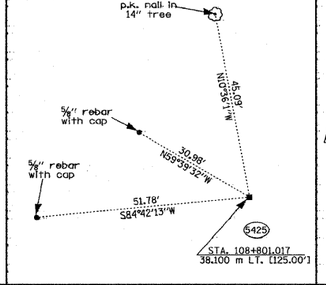


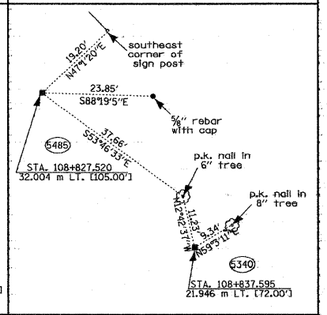


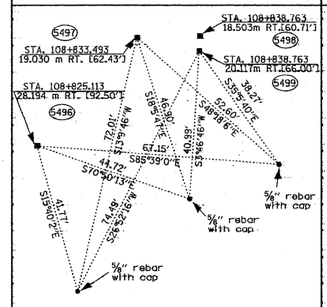


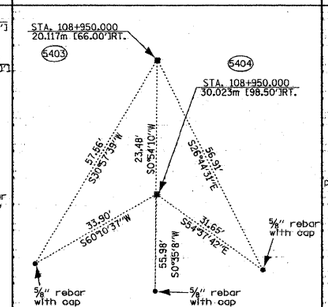


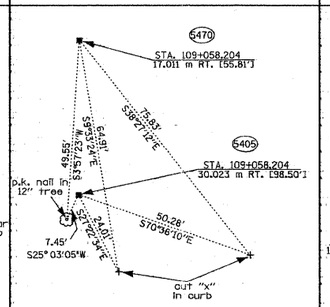


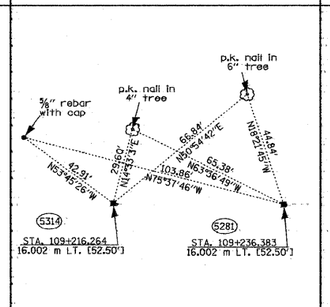


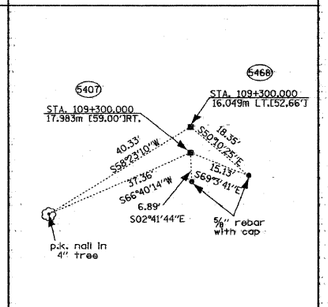


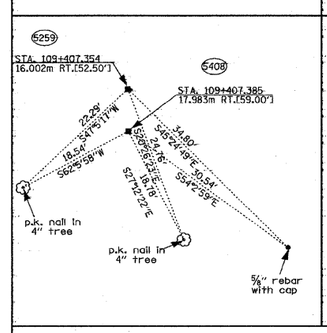


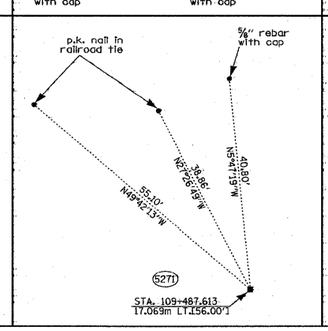


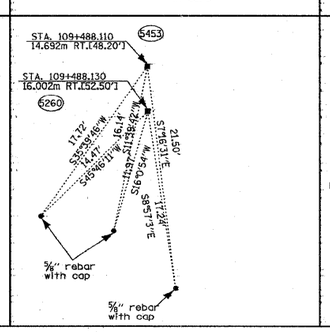


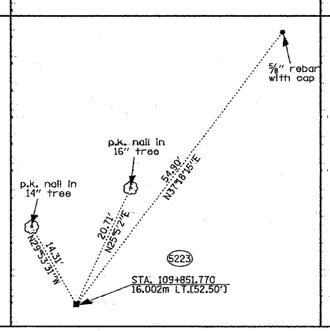


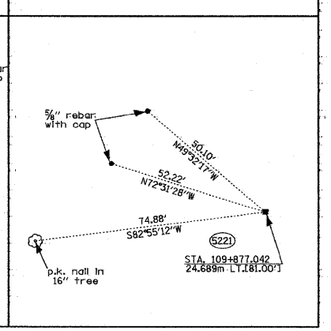












BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

N

LEGEND

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- TEMPORARY EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
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- APL — APPARENT PROPERTY LINE
- 121.45 — MEASURED DIMENSION
- 123.45 (COMP) — COMPUTED DIMENSION
- (123.45) — RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- SET ⅝ INCH IRON ROD PERMANENT SURVEY MONUMENT,
- I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- TEL — EXISTING TELEPHONE SPLICE BOX
- LGT — EXISTING STREET LIGHT
- MAIL BOX — EXISTING MAIL BOX
- WELL — EXISTING WELL HEAD

■ STAKING OF PROPOSED RIGHT OF WAY, SET ⅝ INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

■M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET ⅝ INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

SECTION CORNER — QUARTER SECTION CORNER

RONALD F. HODGEN 2630 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS JOLIET, ILLINOIS

STATE OF ILLINOIS)
) SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 17, TOWNSHIP 43 NORTH, RANGE 12 EAST OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY. THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS 22nd DAY OF Sept. 2008 A.D.

RONALD F. HODGEN P.L.S. NO. 2630
MY LICENSE EXPIRES 11-30-2008

RUETTIGER, TONELLI & ASSOCIATES, INC.
Land Surveyors/Engineers/Planners/Landscape Architects/G.I.S. Consultants
2174 OMEGA STREET, JOLIET, ILLINOIS 60435, PH. (815) 744-6600 FAX (815) 744-0101
2630 SOUTH WASHINGTON STREET SUITE 170, NAPERVILLE, ILLINOIS 60565, PH. (630) 420-7740 FAX (630) 420-7741

ILLINOIS DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS

FAP 337 (IL 22)
I-294 TO RIDGE ROAD
LAKE COUNTY
JOB NO. R-91-023-01
STATION TO STATION

SHEET 15 OF 16

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

sht15.dgn 9/22/2008 9:47:24 AM

ROUTE: FAP 337 (IL 22) SECTION: COUNTY: LAKE JOB NO. R-91-023-01 RT&A 20020755 (IL 22)

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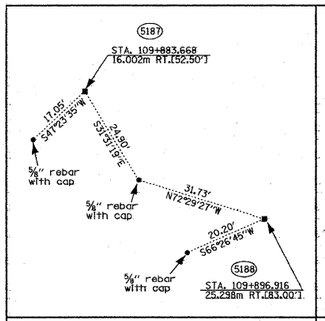
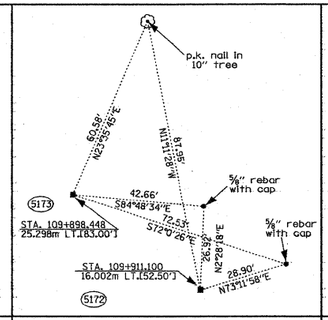
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

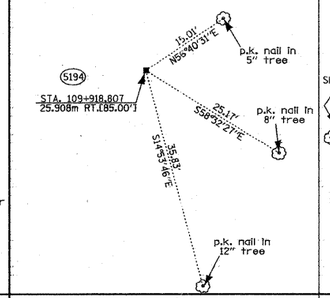
IL ROUTE 22
PLAT OF HIGHWAYS

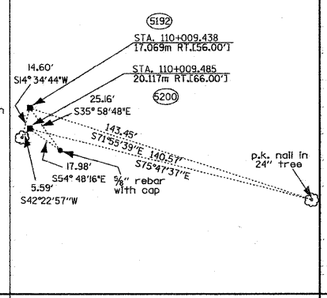
SCALE: NTS | SHEET NO. 123 OF 232 SHEETS | STA. | TO STA.

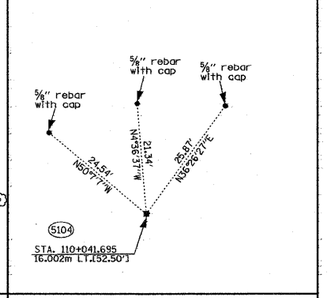
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	123
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		

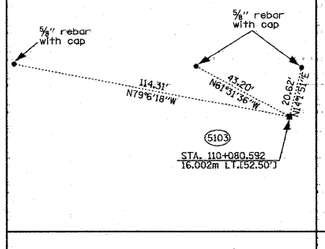


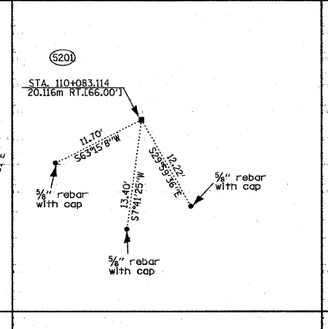


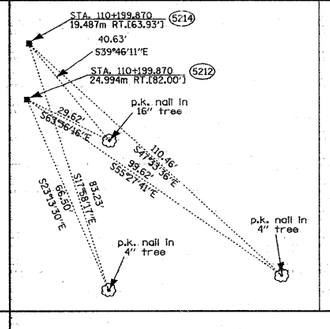


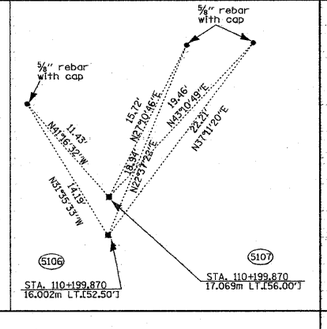


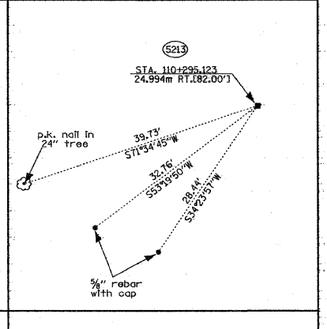


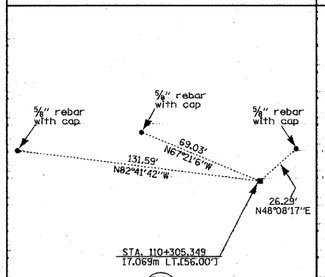


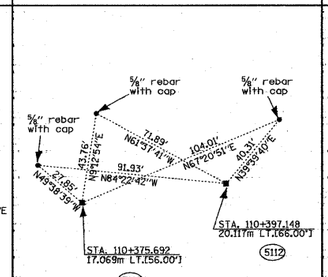


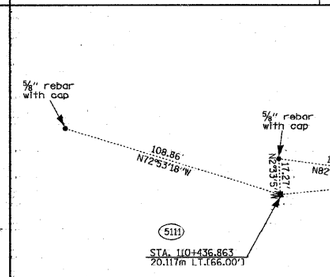


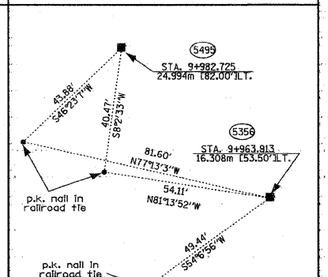


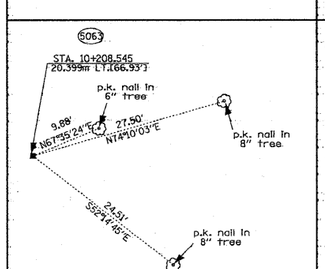


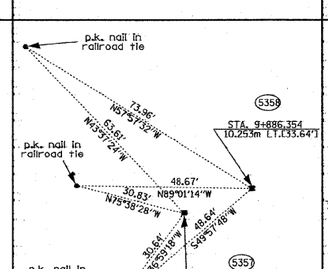


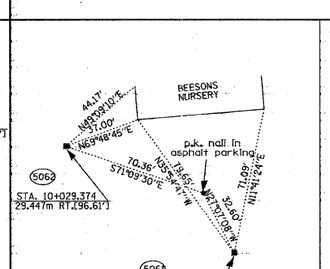


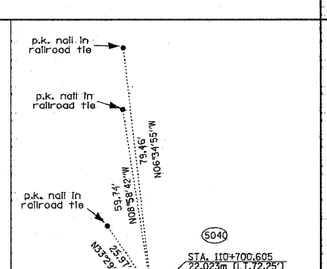












BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

N

LEGEND

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- I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- \+ — CUT CROSS FOUND OR SET
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- TEL — EXISTING TELEPHONE SPLICE BOX
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- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET ⅝ INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

SECTION CORNER — QUARTER SECTION CORNER

RONALD F. HODGEN 2630 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS JOLIET, ILLINOIS

STATE OF ILLINOIS)
) SS
COUNTY OF WILL)

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DATED AT JOLIET, ILLINOIS THIS 22ND DAY OF SEPT. 2008.

RONALD F. HODGEN P.L.S. NO. 2630
MY LICENSE EXPIRES 11-30-2008

RUETTIGER, TONELLI & ASSOCIATES, INC.
Land Surveyors/Engineers/Planners/Landscape Architects/G.I.S. Consultants
2174 ONEIDA STREET — JOLIET, ILLINOIS 60435 — PH. (815) 744-6600 FAX (815) 744-0101
2630 SOUTH WASHINGTON STREET SUITE 170 — NAPERVILLE, ILLINOIS 60565 — PH. (630) 420-7740 FAX (630) 420-7741

ILLINOIS DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS

FAP 337 (IL 22)
I-294 TO RIDGE ROAD
LAKE COUNTY
JOB NO. R-91-023-01
STATION TO STATION

SHEET 16 OF 16

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

sht16.dgn 9/22/2008 9:48:12 AM

ROUTE: FAP 337 (IL 22) SECTION: COUNTY: LAKE JOB NO. R-91-023-01 R7&A 20020755 (IL 22)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 22
PLAT OF HIGHWAYS

SCALE: NTS | SHEET NO. 124 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	124
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		

PART OF THE SE 1/4 OF SEC. 17, TWP. 43 N., R. 12 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1EH0105	Edward Kugler and Sonya M. Kugler, his wife, not as Tenants in Common but as Joint Tenants	2.291	0.045	N/A	2.246	N/A	N/A	16-17-400-026	5788594
1EH0106	Larry Roth and Connie Roth, his wife, as joint tenants	19.625	0.041	N/A	19.584	N/A	N/A	16-17-400-032	5580379

NOTE: SURFACE COORDINATES ARE SHOWN.
PROJECT AVERAGE COMBINED SCALE FACTOR 0.999962771.

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
111+514.696	15.421m Lt.	614,439.5522	339,761.7648
111+514.781	10.239m Lt.	614,434.3700	339,761.8129
111+514.946	0.180m Lt.	614,424.3105	339,761.9061
111+515.110	9.878m Rt.	614,414.2510	339,761.9992
111+515.276	20.000m Rt.	614,404.1282	339,762.0930
111+564.885	20.000m Rt.	614,403.7770	339,811.7013
111+589.783	15.469m Lt.	614,438.9256	339,837.0236
111+609.818	18.000m Rt.	614,405.0064	339,856.2733
111+609.892	20.000m Rt.	614,403.0051	339,856.2917
111+620.043	15.986m Lt.	614,438.6718	339,867.5026
111+653.633	18.000m Rt.	614,403.3788	339,899.6986
111+696.389	18.000m Rt.	614,401.3520	339,942.4068
111+717.819	19.450m Lt.	614,437.8567	339,965.4028
111+718.063	14.274m Lt.	614,432.6745	339,965.4500
111+719.433	15.265m Rt.	614,403.1055	339,965.7199
111+719.558	18.000m Rt.	614,400.3676	339,965.7449
111+769.996	14.393m Rt.	614,402.6816	340,016.6282
111+770.079	18.000m Rt.	614,399.0737	340,016.6610
111+797.141	18.000m Rt.	614,398.8616	340,043.9439
111+820.728	14.566m Rt.	614,402.2578	340,067.5364
111+820.765	18.000m Rt.	614,398.8232	340,067.5676
111+922.384	℄	614,416.6582	340,169.2159

LEGEND

SECTION CORNER
QUARTER SECTION CORNER
SECTION LINE
QUARTER SECTION LINE
QUARTER, QUARTER SECTION LINE
PLATTED LOT LINE
PROPERTY (DEED) LINE
APL — APPARENT PROPERTY LINE
CENTER LINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
PROPOSED EASEMENT
120.327m — MEASURED DIMENSION
129.325m(Comp.) — COMPUTED DIMENSION
{ } — RECORD DATA U.S. FOOT
[ ] — MEASURED DIMENSION U.S. FOOT
EXISTING BUILDING

15 10 5 0 12.7
SCALE: 1:500

Bearings are referenced to the Illinois State Plane Coordinate System, NAD 83, East Zone, as Provided by the Illinois Department of Transportation.

○ IRON PIPE OR ROD FOUND — ⊕ "MAG" NAIL SET
+ CUT CROSS FOUND OR SET — ● 5/8" REBAR SET

● T1 T2 T3 — ***THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.*** SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

● BT1 BT2 BT3 — ***THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.*** BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER

■ — ***STAKING OF PROPOSED RIGHT OF WAY.*** SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

■ M — ***STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.*** BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER

PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)

□ RIGHT OF WAY STAKING PROPOSED TO BE SET

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1EH0105	3075188	October 21, 1991
1EH0106	3117300	February 19, 1992
1EH0106	5253870	June 2, 2003
----	859697	April 1, 1955
----	2044593	January 18, 1980
----	92 ED 15	June 11, 1992*

* Date Filed

Proposed ℄ Pavement Illinois Route 22 Curve #50

P.I. = Sta. 111+609.265
Δ = 2°18'41"
R = 2200.000m [7217.83']
T = 44.380m [145.60']
L = 88.748m [291.17']
E = 0.448m [1.47']
P.C. = Sta. 111+564.885
P.T. = Sta. 111+653.633

Proposed ℄ Pavement Illinois Route 22 Curve #52

P.I. = Sta. 111+746.774
Δ = 2°37'26"
R = 2200.000m [7217.83']
T = 50.385m [165.30']
L = 100.752m [330.55']
E = 0.577m [1.89']
P.C. = Sta. 111+696.389
P.T. = Sta. 111+797.141

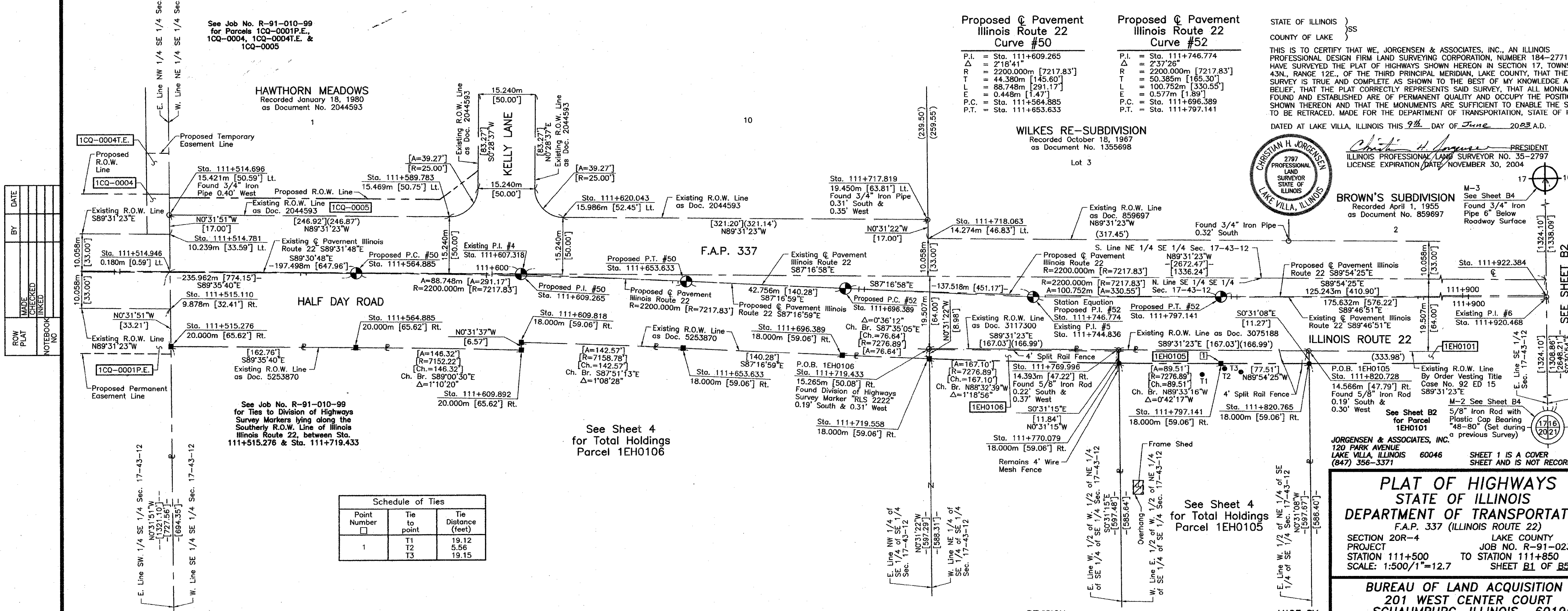
STATE OF ILLINOIS)
)SS
COUNTY OF LAKE)

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 17, TOWNSHIP 43N., RANGE 12E., OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 9th DAY OF June 2003 A.D.

Christian H. Jorgensen PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2004

CHRISTIAN H. JORGENSEN 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS LAKE VILLA, ILLINOIS



Schedule of Ties		
Point Number □	Tie to point	Tie Distance (feet)
1	T1 T2 T3	19.12 5.56 19.15

M-2 See Sheet B4
5/8" Iron Rod with Plastic Cap Bearing "48-80" (Set during a previous Survey)

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 337 (ILLINOIS ROUTE 22)
SECTION 20R-4 — LAKE COUNTY
PROJECT — JOB NO. R-91-023-01
STATION 111+500 TO STATION 111+850
SCALE: 1:500/1"=12.7 — SHEET B1 OF B5

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION DATE — REVISION — MADE BY

ROUTE F.A.P. 337 (ILLINOIS ROUTE 22) — SECTION 20R-4 — COUNTY LAKE — JOB NO. R-91-023-01 — RECORDING: RECORDED ON — AS DOCUMENT NO.

ROW PLAT	NOTEBOOK NO.	MADE	CHECKED	INKED	BY	DATE

FILE NAME = W:\ILRTE22_2009 REVISIONS\CADD Sheets\	USER NAME = pocsecha	DESIGNED - LP	REVISED - 07/26/2010	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 22 PLAT OF HIGHWAYS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	revised sheets\D160860-sht-ROW_B.dgn	DRAWN - DC	REVISED -			337	20R-4	LAKE	232	124A
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - JP	REVISED -					CONTRACT NO. 60860		
	PLOT DATE = 7/28/2010	DATE - 05/14/2010	REVISED -		SCALE: 1"=50' SHEET NO. 124A OF 232 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			

PART OF THE SW 1/4 OF SEC. 16 AND PART OF THE SE 1/4 OF SEC. 17, TWP. 43 N., R. 12 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
111+932.709	25.000m Rt.	614,391.6415	340,179.4996
111+934.344	21.907m Lt.	614,438.5461	340,181.2117
111+941.983	14.368m Lt.	614,430.9945	340,188.8379
111+943.928	15.677m Rt.	614,400.9461	340,190.7345
111+968.366	15.599m Rt.	614,400.9842	340,215.1720

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	PART TAKEN SQUARE FEET	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1EH0101	Betty Hoist, a widow, surviving joint tenant	2.713	0.090	N/A	0.017	2.623	N/A	N/A	16-17-400-034	5580376
1EH0102	Alvin F. Mecklenburger and Lois E. Mecklenburger, his wife as Joint Tenants	1.946	0.009	390	N/A	1.937	N/A	N/A	16-17-402-005	5580377
1EH0103	Chandrashekhar W. Joshi and Mohini C. Joshi, husband and wife, as Tenants in Common	0.878	0.013	N/A	N/A	0.865	N/A	N/A	16-16-303-042	5789871

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1EH0101	434747	March 22, 1937
1EH0101	92 ED 15	*June 11, 1992
1EH0102	859697	April 1, 1955
1EH0102	3083384	November 13, 1991
1EH0103	2568732	May 18, 1987
1EH0103	92 ED 23	*December 23, 1993
-----	859697	April 1, 1955
-----	1639664	October 19, 1973
-----	3075188	October 21, 1991
-----	92 ED 17	*June 7, 1993
-----	92 ED 44	*November 4, 1993

* Date Filed

Schedule of Ties		
Point Number □	Tie to point	Tie Distance (feet)
1	T1	12.15
	T2	11.93
	T3	17.08
2	T1	16.22
	T2	7.36
	T3	7.32
3	T1	21.63
	T2	14.58
	T3	20.56
4	T1	34.59
	T2	23.53
	T3	16.29
5	T1	12.05
	T2	8.53
	T3	9.84
6	T1	9.37
	T2	5.80
	T3	3.83

All Ties to Point No. 2 are a Cross Cut (Set) in Concrete Walk.
T1 & T3 to Point No. 6 are a "MAG" Nail (Set) in Wood 4" x 4" Fence Post.

LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTON LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- 120.327m MEASURED DIMENSION
- 129.325m(Comp.) COMPUTED DIMENSION
- RECORD DATA U.S. FOOT
- MEASURED DIMENSION U.S. FOOT
- EXISTING BUILDING

SCALE: 1:500

Bearings are referenced to the Illinois State Plane Coordinate System, NAD 83, East Zone, as Provided by the Illinois Department of Transportation.

- ○ IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- \+ CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET
- ● T1 T2 T3 ***THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.*** SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ● BT1 BT2 BT3 ***THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.*** BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER
- ■ ***STAKING OF PROPOSED RIGHT OF WAY.*** SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M ***STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.*** BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER
- ◒ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS }
COUNTY OF LAKE } SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 16, TOWNSHIP 43N., RANGE 12E. AND SECTION 17, TOWNSHIP 43N., RANGE 12E., OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 25th DAY OF February, 2003 A.D.

CHRISTIAN H. JORGENSEN 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS LAKE VILLA, ILLINOIS

Christian H. Jorgensen — PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
EXPIRATION DATE: NOVEMBER 30, 2004

NOTE: SURFACE COORDINATES ARE SHOWN.
PROJECT AVERAGE COMBINED SCALE FACTOR 0.999962771.

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
111+815.383	15.037m Lt.	614,431.8686	340,062.2388
111+820.728	14.566m Rt.	614,402.2578	340,067.5364
111+820.765	18.000m Rt.	614,398.8232	340,067.5676
111+899.447	14.473m Lt.	614,431.1686	340,146.3025
111+906.077	14.429m Lt.	614,431.1134	340,152.9318
111+908.519	18.000m Rt.	614,398.6807	340,155.3210
111+912.081	23.000m Lt.	614,439.6749	340,158.9502
111+912.108	20.484m Lt.	614,437.1584	340,158.9729
111+912.486	15.180m Rt.	614,401.4938	340,159.2934
111+912.559	22.000m Rt.	614,394.6742	340,159.3547
111+922.339	4.261m Lt.	614,420.9194	340,169.1776
111+922.384	℄	614,416.6582	340,169.2159
111+922.546	15.248m Rt.	614,401.4100	340,169.3530
111+922.617	21.893m Rt.	614,394.7646	340,169.4127
111+932.610	15.713m Rt.	614,400.9285	340,179.4162

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. 337 (ILLINOIS ROUTE 22)

SECTION 20R-4 LAKE COUNTY
PROJECT JOB NO. R-91-023-01
STATION 111+800 TO STATION 112+100
SCALE: 1:500/1"=12.7 SHEET B2 OF B5

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

RECEIVED OCT 14 2003 PLATS & LEGALS

REVISION DATE October 13, 2003 May 12, 2003 August 27, 2002
REVISION Ownership of Parcel 1EH0101 Configuration of Parcel 1EH0101 Ownership Parcel 1EH0103

MADE BY

ROUTE F.A.P. 337 (ILLINOIS ROUTE 22) SECTION 20R-4 COUNTY LAKE JOB NO. R-91-023-01

RECORDING: RECORDED ON AS DOCUMENT NO.

FILE NAME =	USER NAME = pacischa	DESIGNED - LP	REVISED - 07/26/2010
W:\ILRTE22_2009 REVISIONS\CADD Sheets\revised sheets\D160860-sht-ROW_B.dgn		DRAWN - DC	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - JP	REVISED -
	PLOT DATE = 7/28/2010	DATE - 05/14/2010	REVISED -

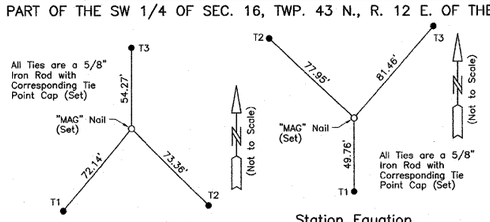
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 22
PLAT OF HIGHWAYS

SCALE: 1"=50' SHEET NO. 124B OF 232 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	124B
		CONTRACT NO. 60860		
	ILLINOIS FED. AID PROJECT			

PART OF THE SW 1/4 OF SEC. 16, TWP. 43 N., R. 12 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.



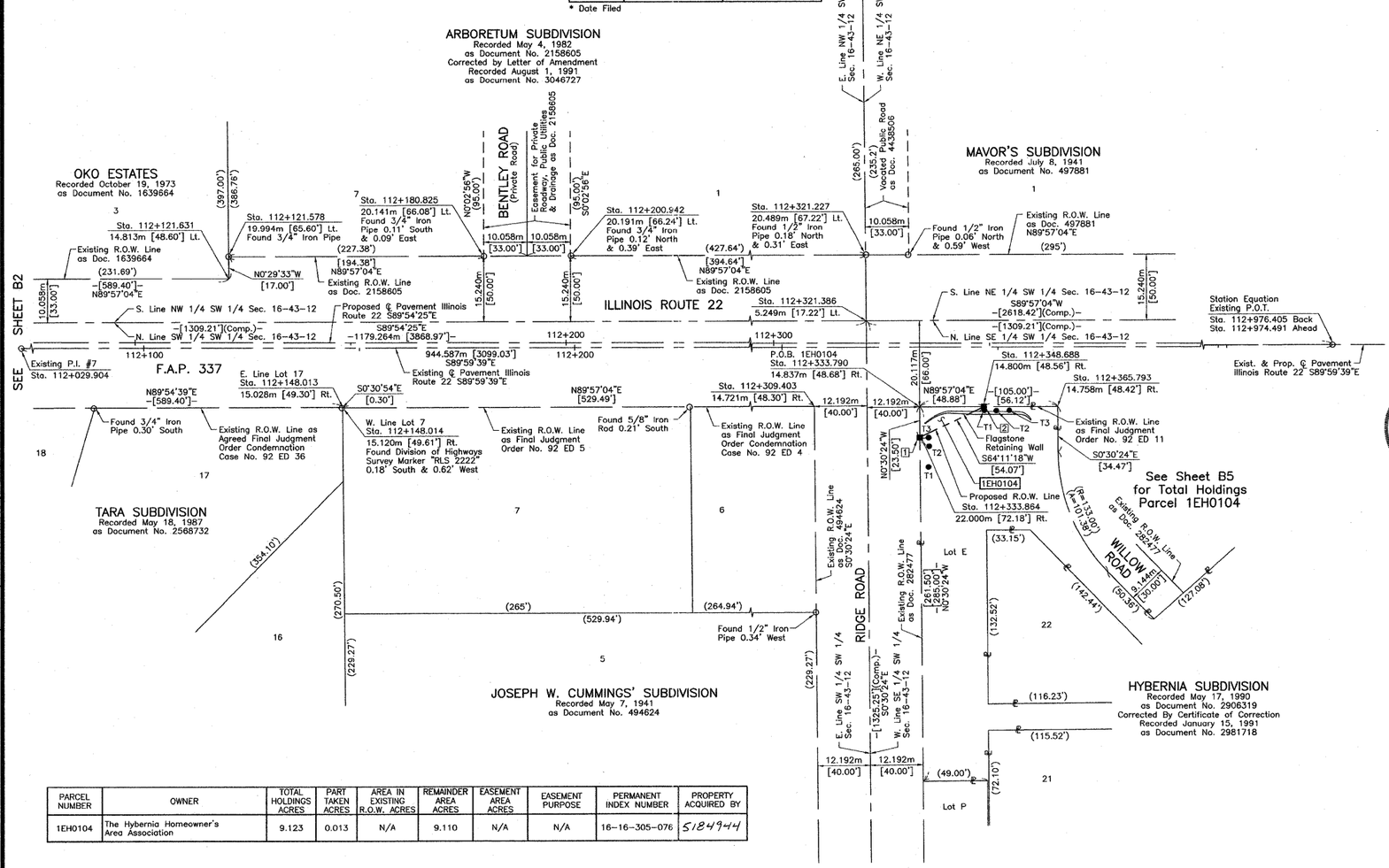
Existing P.I. #7
Illinois Route 22
Sta. 112+029.904
N.614,415.0418–E.340,278.6488

Station Equation
Existing P.O.T.
Illinois Route 22
Sta. 112+976.405 Back
Sta. 112+974.491 Ahead
N.614,414.9465–E.341,223.2353

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1EH0104	282477	July 13, 1926
1EH0104	92 ED 11	*September 8, 1992
----	282477	July 13, 1926
----	494624	May 7, 1941
----	497881	July 8, 1941
----	1639664	October 19, 1973
----	2158605	May 4, 1982
----	92 ED 36	*August 5, 1992
----	92 ED 4	*March 1, 1993
----	92 ED 5	*June 16, 1992
----	4438506	October 22, 1999

* Date Filed

Schedule of Ties		
Point Number □	Tie to point	Tie Distance (feet)
1	T1	23.10
	T2	9.62
	T3	6.70
2	T1	2.83
	T2	9.93
	T3	19.56



PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1EH0104	The Hybernia Homeowner's Area Association	9.123	0.013	N/A	9.110	N/A	N/A	16-16-305-076	5184944

LEGEND

SECTION CORNER (9 10 16 15)
QUARTER SECTION CORNER (16 — 15)

SECTION LINE
QUARTER SECTION LINE
QUARTER, QUARTER SECTION LINE
PLATTED LOT LINE
℄ PROPERTY (DEED) LINE
APL APPARENT PROPERTY LINE
CENTER LINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
PROPOSED EASEMENT
120.327m MEASURED DIMENSION
129.325m(Comp.) COMPUTED DIMENSION
RECORD DATA U.S. FOOT
MEASURED DIMENSION U.S. FOOT
EXISTING BUILDING

N

15 10 5 0 12.7
SCALE: 1:500

Bearings are referenced to the Illinois State Plane Coordinate System, NAD 83, East Zone, as Provided by the Illinois Department of Transportation.

○ IRON PIPE OR ROD FOUND
⊕ "MAG" NAIL SET
\+ CUT CROSS FOUND OR SET
● 5/8" REBAR SET

● T1 T2 T3 ***THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.*** SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

● BT1 BT2 BT3 ***THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.*** BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER

■ ***STAKING OF PROPOSED RIGHT OF WAY.*** SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

■ M ***STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.*** BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER

PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)

□ RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS } SS
COUNTY OF LAKE }

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184–2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 16, TOWNSHIP 43N., RANGE 12E., OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 25th DAY OF February 2003 A.D.

Christian H. Jorgensen — PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35–2797
EXPIRATION DATE: NOVEMBER 30, 2004

CHRISTIAN H. JORGENSEN 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS LAKE VILLA, ILLINOIS

NOTE: SURFACE COORDINATES ARE SHOWN. PROJECT AVERAGE COMBINED SCALE FACTOR 0.999962771.

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
112+121.578	19.994m Lt.	614,436.3291	340,368.4417
112+121.631	14.813m Lt.	614,431.1475	340,368.4863
112+148.013	15.028m Rt.	614,401.2636	340,394.8200
112+148.014	15.120m Rt.	614,401.1714	340,394.8208
112+180.825	20.141m Lt.	614,436.3795	340,427.6888
112+200.942	20.191m Lt.	614,436.3966	340,447.8057
112+309.403	14.721m Rt.	614,401.3088	340,556.2101
112+321.227	20.489m Lt.	614,436.4991	340,568.0914
112+321.386	5.249m Lt.	614,421.2591	340,568.2262
112+333.790	14.837m Rt.	614,401.1528	340,580.5965
112+333.864	22.000m Rt.	614,393.9900	340,580.6598
112+348.688	14.800m Rt.	614,401.1655	340,595.4954
112+365.793	14.758m Rt.	614,401.1801	340,612.6005

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356–3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. 337 (ILLINOIS ROUTE 22)
SECTION 20R–4 LAKE COUNTY
PROJECT JOB NO. R–91–023–01
STATION 112+100 TO STATION 113+000
SCALE: 1:500/1"=12.7 SHEET B3 OF B5

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

DATE	BY	MADE CHECKED INKED	ROW PLAT	NOTEBOOK NO

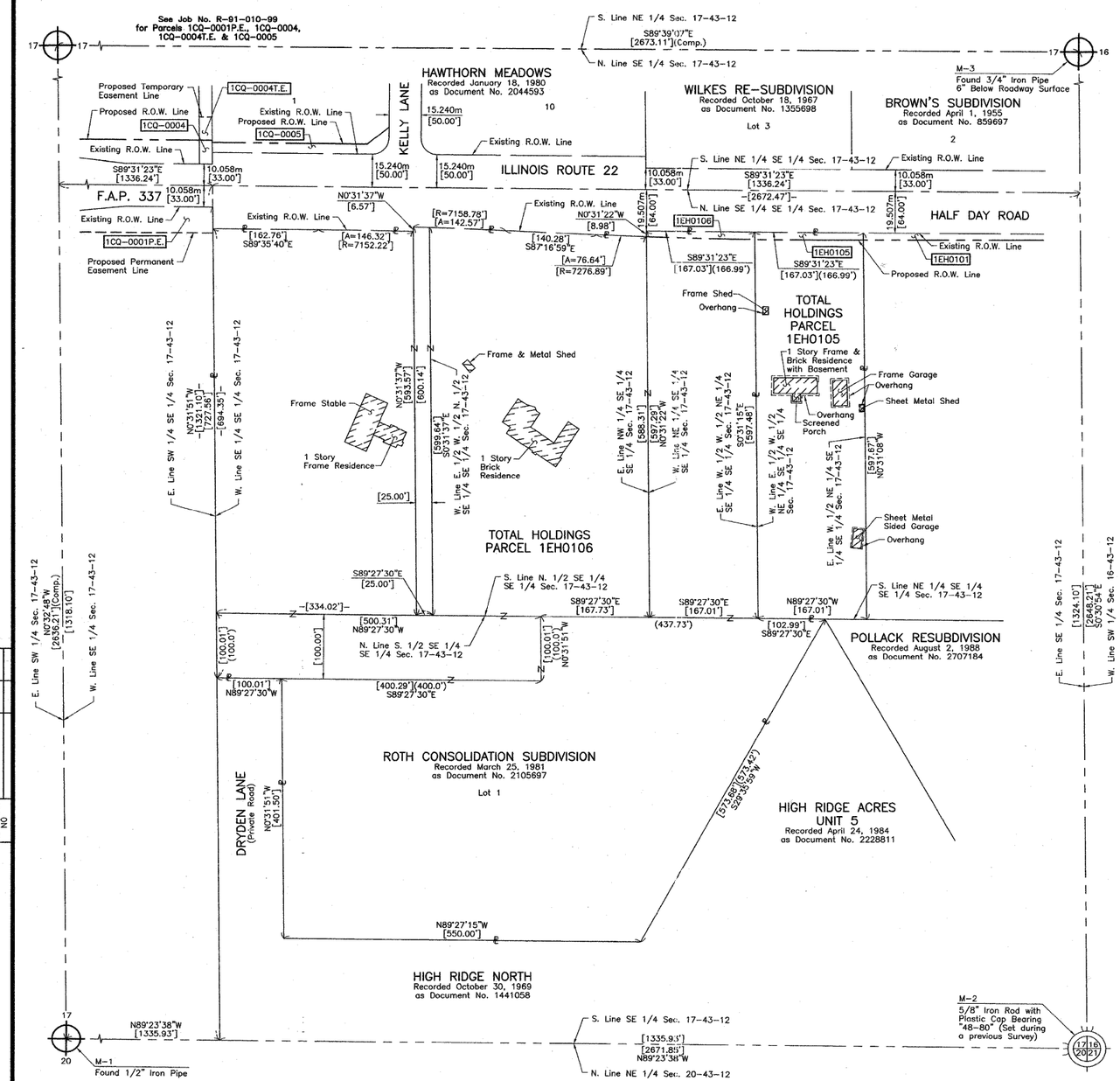
REVISION DATE | REVISION | MADE BY

ROUTE F.A.P. 337 (ILLINOIS ROUTE 22) | SECTION 20R–4 | COUNTY LAKE | JOB NO. R–91–023–01 | RECORDING: RECORDED ON | AS DOCUMENT NO.

FILE NAME = W:\ILRTE22_2009 REVISIONS\CADD Sheets\revised sheets\D160860-sht-ROW_B.dgn	USER NAME = pocsecha	DESIGNED - LP	REVISED - 07/26/2010	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 22 PLAT OF HIGHWAYS
	PLOT SCALE = 50.0000 ' / IN.	DRAWN - DC	REVISED -		SCALE: 1"=50' | SHEET NO. 124C OF 232 SHEETS | STA. | TO STA.
	PLOT DATE = 7/28/2010	CHECKED - JP	REVISED -		
		DATE - 05/14/2010	REVISED -		

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	124C
		CONTRACT NO. 60860		
		ILLINOIS FED. AID PROJECT		

PART OF THE SE 1/4 OF SEC. 17, TWP. 43 N., R. 12 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.



LEGEND

SECTION CORNER (9 10 16 15) — QUARTER SECTION CORNER (16 — 15)

- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL — APPARENT PROPERTY LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- 120.327m — MEASURED DIMENSION
- 129.325m(Comp.) — COMPUTED DIMENSION
- RECORD DATA U.S. FOOT
- MEASURED DIMENSION U.S. FOOT
- EXISTING BUILDING

N

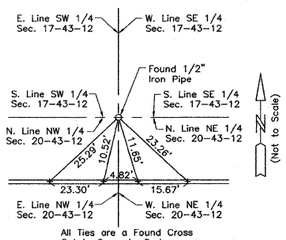
1

30 20 10 0 25.4

SCALE: 1:1000

Bearings are referenced to the Illinois State Plane Coordinate System, NAD 83, East Zone, as Provided by the Illinois Department of Transportation.

- O IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET
- ● T1, T2, T3 — ***THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.*** SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ● BT1, BT2, BT3 — ***THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.*** BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER
- ■ — ***STAKING OF PROPOSED RIGHT OF WAY.*** SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M — ***STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.*** BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER
- ◐ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET



All Ties are a Found Cross Cut in Concrete Curb

M-1
"Monument Record"
South Quarter Corner of Section 17-43-12
N.614,025.9612-E.339,358.4690
Recorded December 10, 1999
Document No. 4464006

STATE OF ILLINOIS } SS
COUNTY OF LAKE }

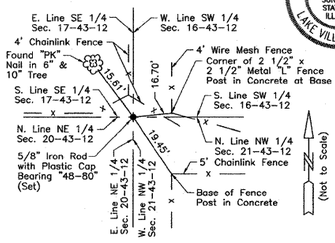
THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 17, TOWNSHIP 43N., RANGE 12E., OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 6th DAY OF June 2023 A.D.

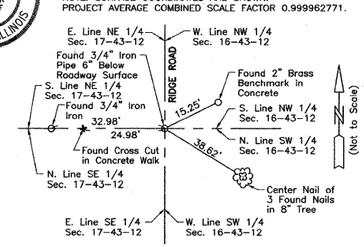
CHRISTIAN H. JORGENSEN 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS LAKE VILLA, ILLINOIS

Christian H. Jorgensen PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2004

NOTE: SURFACE COORDINATES ARE SHOWN.
PROJECT AVERAGE COMBINED SCALE FACTOR 0.999962771.



M-2
"Monument Record"
Southeast Corner of Section 17-43-12
N.614,017.3476-E.340,172.8050
Recorded December 10, 1999
Document No. 4464005



M-3
"Monument Record"
East Quarter Corner of Section 17-43-12
N.614,824.4912-E.340,165.5503
Recorded December 10, 1999
Document No. 4464005

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. 337 (ILLINOIS ROUTE 22)

SECTION 20R-4 — LAKE COUNTY
PROJECT — JOB NO. R-91-023-01
STATION NONE — TO STATION
SCALE: 1:1000/1"=25.4 — SHEET B4 OF B5

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

ROW PLAT	BY	DATE
MADE		
CHECKED		
INKED		
NOTEBOOK NO.		

REVISION DATE | REVISION | MADE BY

ROUTE F.A.P. 337 (ILLINOIS ROUTE 22) | SECTION 20R-4 | COUNTY LAKE | JOB NO. R-91-023-01 | RECORDING: RECORDED ON | AS DOCUMENT NO.

FILE NAME = W:\ILRTE22_2009 REVISIONS\CADD Sheets\	USER NAME = pociecha	DESIGNED - LP	REVISED - 07/26/2010	
	revised sheets\D160860-sht-ROW_B.dgn	DRAWN - DC	REVISED -	
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - JP	REVISED -	
	PLOT DATE = 7/28/2010	DATE - 05/14/2010	REVISED -	

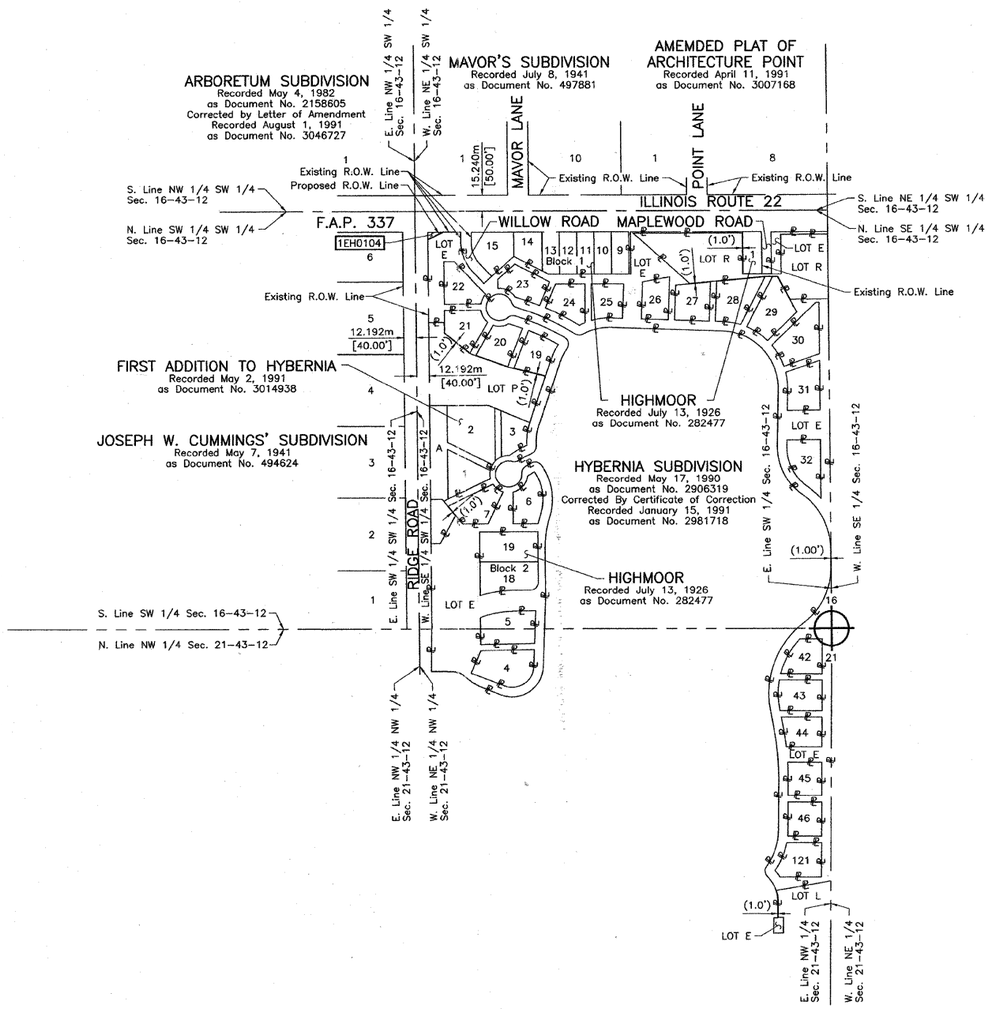
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 22
PLAT OF HIGHWAYS

SCALE: 1"=50' | SHEET NO. 124D OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	124D
		CONTRACT NO. 60860		
		ILLINOIS FED. AID PROJECT		

PART OF THE SW 1/4 OF SEC. 16 AND PART OF THE NW 1/4 OF SEC. 21, TWP. 43 N., R. 12 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.



LEGEND

N

SECTION CORNER

QUARTER SECTION CORNER

SECTION LINE
QUARTER SECTION LINE
QUARTER, QUARTER SECTION LINE
PLATTED LOT LINE
PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
CENTER LINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
PROPOSED EASEMENT
120.327m MEASURED DIMENSION
129.325m(Comp.) COMPUTED DIMENSION
RECORD DATA U.S. FOOT
MEASURED DIMENSION U.S. FOOT
EXISTING BUILDING

100 50 0 63.5
SCALE: 1:2500

Bearings are referenced to the Illinois State Plane Coordinate System, NAD 83, East Zone, as Provided by the Illinois Department of Transportation.

- ○ IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- \+ CUT CROSS FOUND OR SET
- ● 5/8" REBAR SET
- ● T1, T2, T3 ***THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.*** SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- ● BT1, BT2, BT3 ***THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.*** BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER
- ■ ***STAKING OF PROPOSED RIGHT OF WAY.*** SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ■ M ***STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.*** BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER
- PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- □ RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
)SS
COUNTY OF LAKE)

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 16, TOWNSHIP 43N., RANGE 12E. AND SECTION 21, TOWNSHIP 43N., RANGE 12E., OF THE THIRD PRINCIPAL MERIDIAN, LAKE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 25th DAY OF February 20 08 A.D.

CHRISTIAN H. JORGENSEN 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS LAKE VILLA, ILLINOIS

Christian H. Jorgensen PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
EXPIRATION DATE: NOVEMBER 30, 2004

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.P. 337 (ILLINOIS ROUTE 22)

SECTION 20R-4 LAKE COUNTY
PROJECT JOB NO. R-91-023-01
STATION NONE TO STATION
SCALE: 1:2500/1"=63.5 SHEET B5 OF B5

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

ROW	PLAT	NOTEBOOK NO	MADE	CHECKED	INKED	BY	DATE

REVISION DATE | REVISION | MADE BY

ROUTE F.A.P. 337 (ILLINOIS ROUTE 22) | SECTION 20R-4 | COUNTY LAKE | JOB NO. R-91-023-01 | RECORDING: RECORDED ON AS DOCUMENT NO.

FILE NAME = W:\ILRTE22_2009 REVISIONS\CADD Sheets\revised sheets\D1602860-sht-ROW_B.dgn	USER NAME = pocsecha	DESIGNED - LP	REVISED - 07/26/2010	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RECORDING: RECORDED ON AS DOCUMENT NO.
	PLOT SCALE = 50.0000 ' / IN.	DRAWN - DC	REVISED -		IL. ROUTE 22 PLAT OF HIGHWAYS
	PLOT DATE = 7/28/2010	CHECKED - JP	REVISED -		SCALE: 1"=50' SHEET NO. 124E OF 232 SHEETS STA. TO STA.
		DATE - 05/14/2010	REVISED -		

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	124E
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		

(1) 14 PROP. REQ'D.
12 EXISTING
R 1-1
30" x 30"

(2) 6 PROP. REQ'D.
0 EXISTING
R 6-3
24" x 18"

(2A) 2 PROP. REQ'D.
0 EXISTING
R 6-3a
24" x 18"

(3) 12 PROP. REQ'D.
15 EXISTING
R 2-1 (40 mph)
30" x 36"

(4) 2 PROP. REQ'D.
2 EXISTING
R 2-1 (45 mph)
30" x 36"

(5) 0 PROP. REQ'D.
0 EXISTING
R 3-1
30" x 30"

(6) 0 PROP. REQ'D.
0 EXISTING
R 3-2
30" x 30"

(7) 0 PROP. REQ'D.
3 EXISTING
R 3-5 (R)
24" x 30"

(8) 17 PROP. REQ'D.
2 EXISTING
R 3-5 (L)
24" x 30"

(9) 0 PROP. REQ'D.
0 EXISTING
R 3-7(R)
30' x 30'

(10) 33 PROP. REQ'D.
0 EXISTING
R 4-7
24" x 30"

(11) 0 PROP. REQ'D.
0 EXISTING
R 5-1
36' x 36'

(12) 0 PROP. REQ'D.
2 EXISTING
R 5-2
24" x 24"

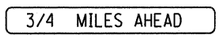
(13) 17 PROP. REQ'D.
0 EXISTING
R 6-2 (R)
18" x 24"

(14) 4 PROP. REQ'D.
4 EXISTING
R 8-8
24" x 30"

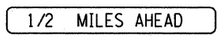
(15) 2 PROP. REQ'D.
2 EXISTING
R 10-6A
24" x 30"

(16) 2 PROP. REQ'D.
2 EXISTING
R 10-7
24" x 30"

(17) 1 PROP. REQ'D.
5 EXISTING
R 3-1100
24" x 24"



(18) 0 PROP. REQ'D.
1 EXISTING
R 12-1102



(19) 0 PROP. REQ'D.
2 EXISTING
R 12-1102

(20) 0 PROP. REQ'D.
0 EXISTING
R 15-1
48" x 9"

(21) 1 PROP. REQ'D.
1 EXISTING
W 2-2
36" x 36"

(22) 0 PROP. REQ'D.
2 EXISTING
W 3-1100

(23) 0 PROP. REQ'D.
1 EXISTING
W 4-2
36" x 36"

(24) 0 PROP. REQ'D.
1 EXISTING
W 4-2
36" x 36"

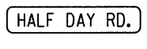
(25) 0 PROP. REQ'D.
1 EXISTING
W 6-3
36" x 36"

(26) 2 PROP. REQ'D.
2 EXISTING
W 10-1
36" DIA.

(27) 2 PROP. REQ'D.
2 EXISTING
W 10-2
36" x 36"

(28) 2 PROP. REQ'D.
2 EXISTING
W 11-8
36" x 36"

(29) 0 PROP. REQ'D.
0 EXISTING
W 11-2
36" x 36"



(30) 1 PROP. REQ'D.
1 EXISTING
W 16-8
8" x VARIABLE WIDTH
4" CAPITAL LETTERS

(31) 2 PROP. REQ'D.
2 EXISTING
W 16-8
8" x VARIABLE WIDTH
4" CAPITAL LETTERS

(32) 8 PROP. REQ'D.
8 EXISTING
M 1-1100
24" X 24"

(33) 7 PROP. REQ'D.
7 EXISTING
M 1-1100
24" X 24"

(34) 3 PROP. REQ'D.
3 EXISTING
M 2-1
30" x 15"

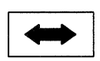
(35) 1 PROP. REQ'D.
1 EXISTING
M 3-1
24" x 12"

(36) 1 PROP. REQ'D.
1 EXISTING
M 3-2
24" x 12"

(37) 1 PROP. REQ'D.
1 EXISTING
M 3-3
24" x 12"

(38) 1 PROP. REQ'D.
1 EXISTING
M 3-4
24" x 12"

(39) 4 PROP. REQ'D.
4 EXISTING
M 6-3
21" x 15"



(40) 4 PROP. REQ'D.
4 EXISTING
M 6-4
21" x 15"

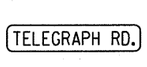
(41) 0 PROP. REQ'D.
1 EXISTING
EM - 6a
30" x 24"

(42) 4 PROP. REQ'D.
0 EXISTING
R3-8Y
30" x 30"

(43) 1 PROP. REQ'D.
1 EXISTING
24" x 24"

(44) 1 PROP. REQ'D.
1 EXISTING
30" x 30"

(45) 0 PROP. REQ'D.
1 EXISTING
30" x 30"



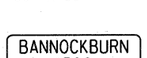
(46) 0 PROP. REQ'D.
2 EXISTING

R 10-6a
R 2-1103

(47) 2 PROP. REQ'D.
2 EXISTING

(48) 0 PROP. REQ'D.
1 EXISTING

(49) 2 PROP. REQ'D.
1 EXISTING
R 10-11A
24" x 24"



(50) 1 PROP. REQ'D.
1 EXISTING

SIGNING NOTES

1. ALL SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. SIGN FACES SHALL BE OF TYPE A REFLECTIVE SHEETING.
2. SIGN LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND FINAL LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
3. PROPOSED SIGNS SHALL BE OF THE SIZE AND TYPE SPECIFIED AND ALL SHALL BE MOUNTED ON TELESCOPING STEEL SIGN SUPPORT(S) OR METAL POSTS CONFORMING TO THE STANDARD SIGN PANEL ERECTION DETAILS. ALL SIGNS LOCATED IN CONCRETE OR LANDSCAPED MEDIANS SHALL BE ERECTED ON TELESCOPING STEEL SIGN SUPPORTS. ALL OTHER SIGNS SHALL BE ERECTED ON METAL POSTS.
4. ALL SIGNS ERECTED IN PAVED MEDIANS SHALL HAVE A SLEEVE PLACED IN THE SURFACE AS SHOWN IN THE SIGN PANEL ERECTION STANDARD FOR TELESCOPING STEEL POST ASSEMBLY, PAVEMENT MOUNTING DETAIL.
5. EXISTING SIGNS SHALL BE RELOCATED PER THE ENGINEER'S DIRECTION, AT NO ADDITIONAL COST TO THE CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND STORING THE SIGNS AND POSTS AND REINSTALLING THEM IN GOOD CONDITION. PROPOSED SIGNS SHOWN ARE THOSE REQUIRED IN ADDITION TO THE EXISTING SIGNS OR SIGNS PROVIDED BY IDOT.
6. ALL REMOVED EXISTING SIGNS SHALL BE DELIVERED TO LAKE ZURICH SIGN SHOP, PH. NO. (847) 438-2300.

PAVEMENT MARKING NOTES

1. PAVEMENT MARKING AND RAISED REFLECTIVE MARKERS SHALL BE IN CONFORMANCE WITH THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, STANDARD DETAIL 780001, DISTRICT ONE STANDARDS, THE PLAN DETAILS AND THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
2. ALL FINAL PAVEMENT MARKING MATERIALS TO BE USED ON CONCRETE PAVEMENT SHALL BE POLYUREA PAVEMENT MARKING EXCEPT WHERE NOTED IN THE PLANS. THERMOPLASTIC PAVEMENT MARKING MATERIAL SHALL BE USED FOR ALL FINAL MARKING ON ALL BITUMINOUS CONCRETE SURFACES UNLESS OTHERWISE INDICATED IN THE PLANS OR DIRECTED BY THE ENGINEER.
3. ALL FINAL PAVEMENT MARKING SYMBOLS SHALL BE OF LARGE SIZE.
4. ALL 4" EDGE LINES SHALL TERMINATE WHEN THEY MEET BARRIER CURBING EXCEPT WHERE OTHERWISE INDICATED IN THE PLANS.
5. RAISED REFLECTIVE MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2" TOWARDS TRAFFIC AND SPACED AT 40' ON CENTER (O.C.) EXCEPT WHERE OTHERWISE NOTED IN THE PLANS.
6. RAISED REFLECTIVE MARKERS USED WITH BROKEN (DASHED) LINES SHALL BE SPACED AT 80' ON CENTER (O.C.) IN THE GAP BETWEEN SEGMENTS.
7. STOP BARS SHALL BE PLACED 4' BEHIND CROSSWALK LINES AS SHOWN.
8. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE MARKINGS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

PAVEMENT MARKING LEGEND

PAVEMENT MARKING LINE (COLOR, SIZE & TYPE AS NOTED)

PAVEMENT MARKING SYMBOLS (SIZE & TYPE AS NOTED)

TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKER (40' O.C.)

ONE-WAY CRYSTAL RAISED REFLECTIVE PAVEMENT MARKER

FILE NAME = W:\ILRTE22_2009 REVISIONS\CADD Sheets\revised sheets\D162860-sht-pmk-signs.dgn	USER NAME = pociecha	DESIGNED - LP	REVISED - 07/26/2010
		DRAWN - DC	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - JP	REVISED -
	PLOT DATE = 7/28/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

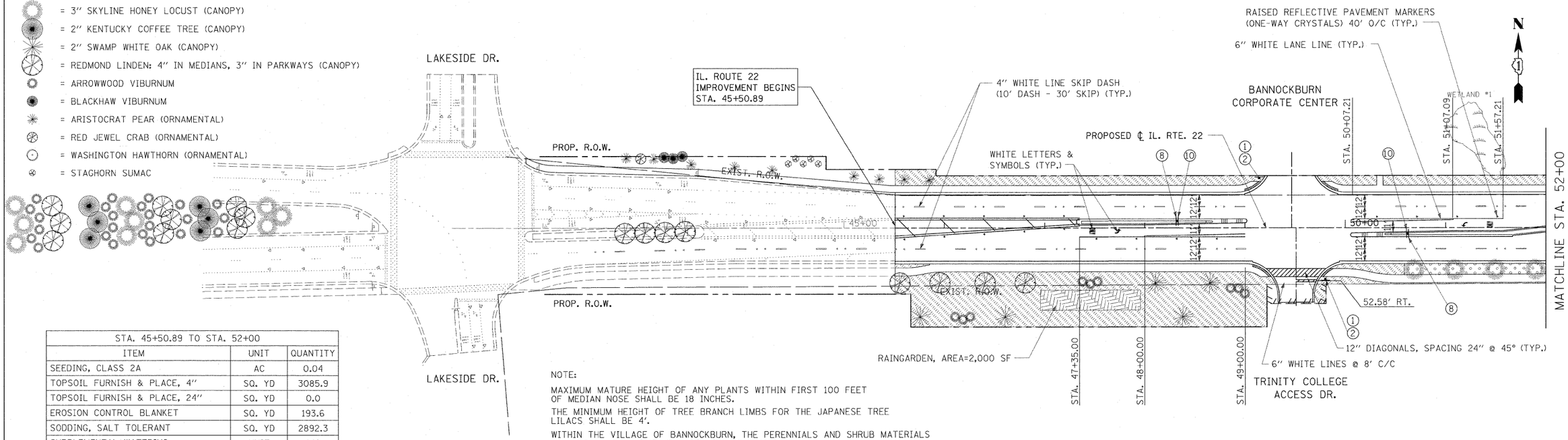
IL. ROUTE 22
PAVEMENT MARKING AND SIGNING DETAILS & NOTES

SCALE: NTS | SHEET NO. 125 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	125
		CONTRACT NO. 60860		
	ILLINOIS FED. AID PROJECT			

LEGEND

= 3" SKYLINE HONEY LOCUST (CANOPY)
= 2" KENTUCKY COFFEE TREE (CANOPY)
= 2" SWAMP WHITE OAK (CANOPY)
= REDMOND LINDEN: 4" IN MEDIANS, 3" IN PARKWAYS (CANOPY)
= ARROWWOOD VIBURNUM
= BLACKHAW VIBURNUM
= ARISTOCRAT PEAR (ORNAMENTAL)
= RED JEWEL CRAB (ORNAMENTAL)
= WASHINGTON HAWTHORN (ORNAMENTAL)
= STAGHORN SUMAC



STA. 45+50.89 TO STA. 52+00		
ITEM	UNIT	QUANTITY
SEEDING, CLASS 2A	AC	0.04
TOPSOIL FURNISH & PLACE, 4"	SQ. YD	3085.9
TOPSOIL FURNISH & PLACE, 24"	SQ. YD	0.0
EROSION CONTROL BLANKET	SQ. YD	193.6
SODDING, SALT TOLERANT	SQ. YD	2892.3
SUPPLEMENTAL WATERING	UNIT	148

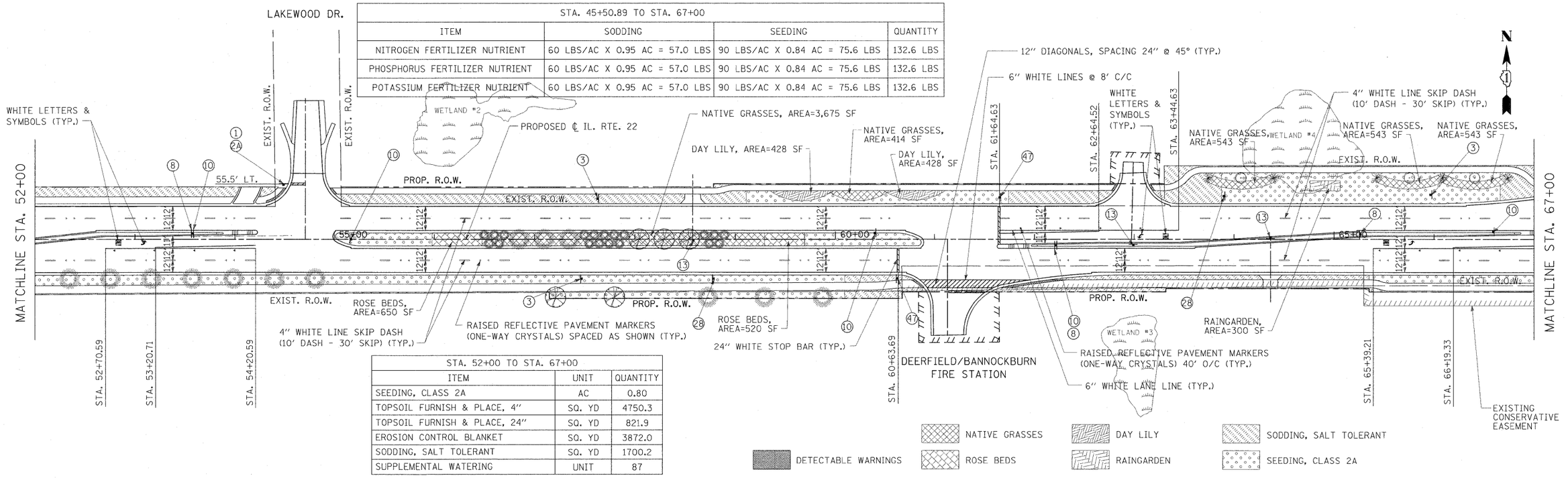
NOTE:

MAXIMUM MATURE HEIGHT OF ANY PLANTS WITHIN FIRST 100 FEET OF MEDIAN NOSE SHALL BE 18 INCHES.

THE MINIMUM HEIGHT OF TREE BRANCH LIMBS FOR THE JAPANESE TREE LILACS SHALL BE 4'.

WITHIN THE VILLAGE OF BANNOCKBURN, THE PERENNIALS AND SHRUB MATERIALS WILL BE DONE BY THE VILLAGE OF BANNOCKBURN.

STA. 45+50.89 TO STA. 67+00			
ITEM	SODDING	SEEDING	QUANTITY
NITROGEN FERTILIZER NUTRIENT	60 LBS/AC X 0.95 AC = 57.0 LBS	90 LBS/AC X 0.84 AC = 75.6 LBS	132.6 LBS
PHOSPHORUS FERTILIZER NUTRIENT	60 LBS/AC X 0.95 AC = 57.0 LBS	90 LBS/AC X 0.84 AC = 75.6 LBS	132.6 LBS
POTASSIUM FERTILIZER NUTRIENT	60 LBS/AC X 0.95 AC = 57.0 LBS	90 LBS/AC X 0.84 AC = 75.6 LBS	132.6 LBS



STA. 52+00 TO STA. 67+00		
ITEM	UNIT	QUANTITY
SEEDING, CLASS 2A	AC	0.80
TOPSOIL FURNISH & PLACE, 4"	SQ. YD	4750.3
TOPSOIL FURNISH & PLACE, 24"	SQ. YD	821.9
EROSION CONTROL BLANKET	SQ. YD	3872.0
SODDING, SALT TOLERANT	SQ. YD	1700.2
SUPPLEMENTAL WATERING	UNIT	87

DETECTABLE WARNINGS
NATIVE GRASSES
ROSE BEDS
DAY LILY
RAINGARDEN
SODDING, SALT TOLERANT
SEEDING, CLASS 2A

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	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

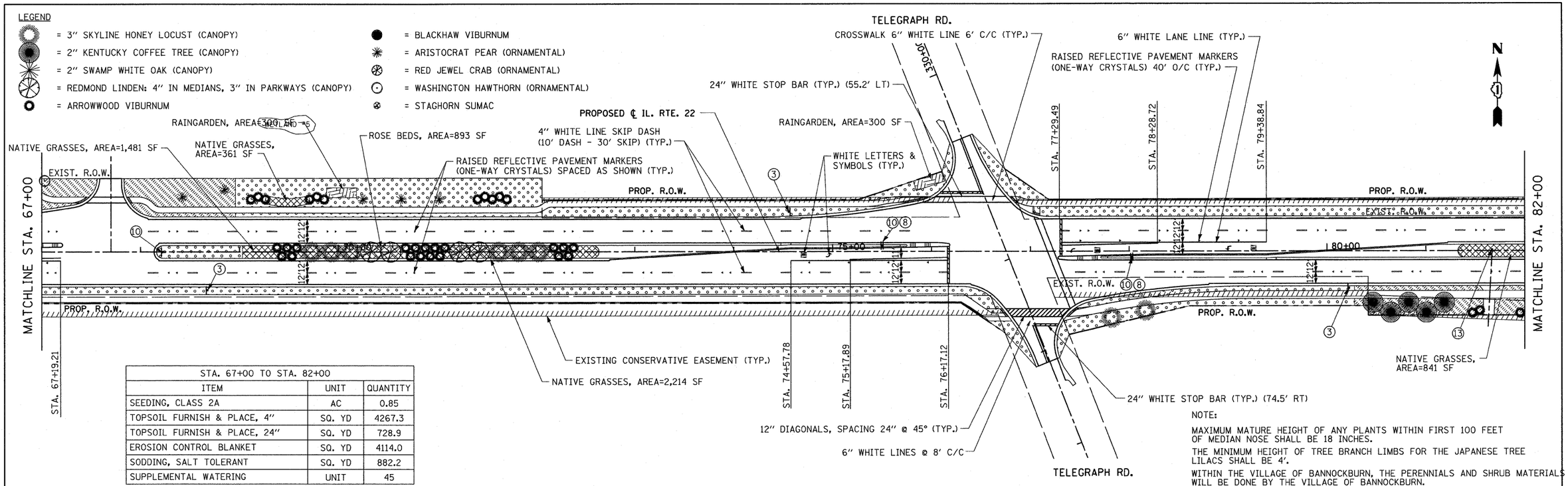
IL. ROUTE 22
PAVEMENT MARKING, SIGNING & LANDSCAPING PLAN

SCALE: 1"=50' | SHEET NO. 126 OF 232 SHEETS | STA. 45+50.89 TO STA. 67+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	126
		CONTRACT NO. 60860		
		ILLINOIS	FED. AID PROJECT	

LEGEND

= 3" SKYLINE HONEY LOCUST (CANOPY)
= 2" KENTUCKY COFFEE TREE (CANOPY)
= 2" SWAMP WHITE OAK (CANOPY)
= REDMOND LINDEN: 4" IN MEDIANS, 3" IN PARKWAYS (CANOPY)
= ARROWWOOD VIBURNUM
= BLACKHAW VIBURNUM
= ARISTOCRAT PEAR (ORNAMENTAL)
= RED JEWEL CRAB (ORNAMENTAL)
= WASHINGTON HAWTHORN (ORNAMENTAL)
= STAGHORN SUMAC



NOTE:

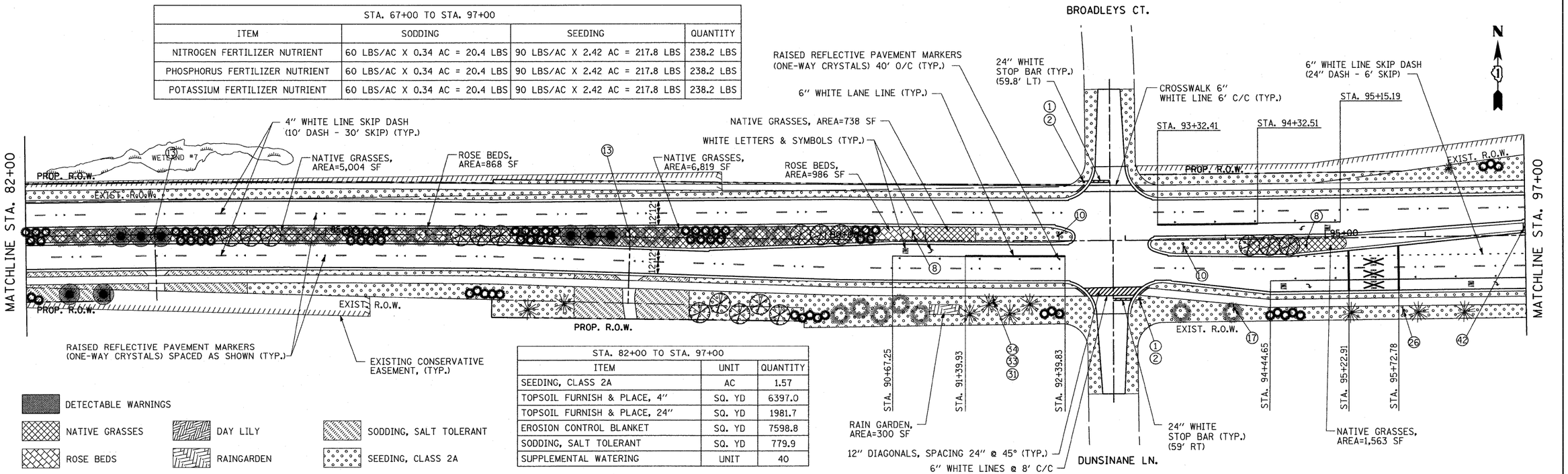
MAXIMUM MATURE HEIGHT OF ANY PLANTS WITHIN FIRST 100 FEET OF MEDIAN NOSE SHALL BE 18 INCHES.

THE MINIMUM HEIGHT OF TREE BRANCH LIMBS FOR THE JAPANESE TREE LILACS SHALL BE 4'.

WITHIN THE VILLAGE OF BANNOCKBURN, THE PERENNIALS AND SHRUB MATERIALS WILL BE DONE BY THE VILLAGE OF BANNOCKBURN.

STA. 67+00 TO STA. 82+00		
ITEM	UNIT	QUANTITY
SEEDING, CLASS 2A	AC	0.85
TOPSOIL FURNISH & PLACE, 4"	SQ. YD	4267.3
TOPSOIL FURNISH & PLACE, 24"	SQ. YD	728.9
EROSION CONTROL BLANKET	SQ. YD	4114.0
SODDING, SALT TOLERANT	SQ. YD	882.2
SUPPLEMENTAL WATERING	UNIT	45

STA. 67+00 TO STA. 97+00			
ITEM	SODDING	SEEDING	QUANTITY
NITROGEN FERTILIZER NUTRIENT	60 LBS/AC X 0.34 AC = 20.4 LBS	90 LBS/AC X 2.42 AC = 217.8 LBS	238.2 LBS
PHOSPHORUS FERTILIZER NUTRIENT	60 LBS/AC X 0.34 AC = 20.4 LBS	90 LBS/AC X 2.42 AC = 217.8 LBS	238.2 LBS
POTASSIUM FERTILIZER NUTRIENT	60 LBS/AC X 0.34 AC = 20.4 LBS	90 LBS/AC X 2.42 AC = 217.8 LBS	238.2 LBS



DETECTABLE WARNINGS
NATIVE GRASSES
ROSE BEDS
DAY LILY
RAINGARDEN
SODDING, SALT TOLERANT
SEEDING, CLASS 2A

STA. 82+00 TO STA. 97+00		
ITEM	UNIT	QUANTITY
SEEDING, CLASS 2A	AC	1.57
TOPSOIL FURNISH & PLACE, 4"	SQ. YD	6397.0
TOPSOIL FURNISH & PLACE, 24"	SQ. YD	1981.7
EROSION CONTROL BLANKET	SQ. YD	7598.8
SODDING, SALT TOLERANT	SQ. YD	779.9
SUPPLEMENTAL WATERING	UNIT	40

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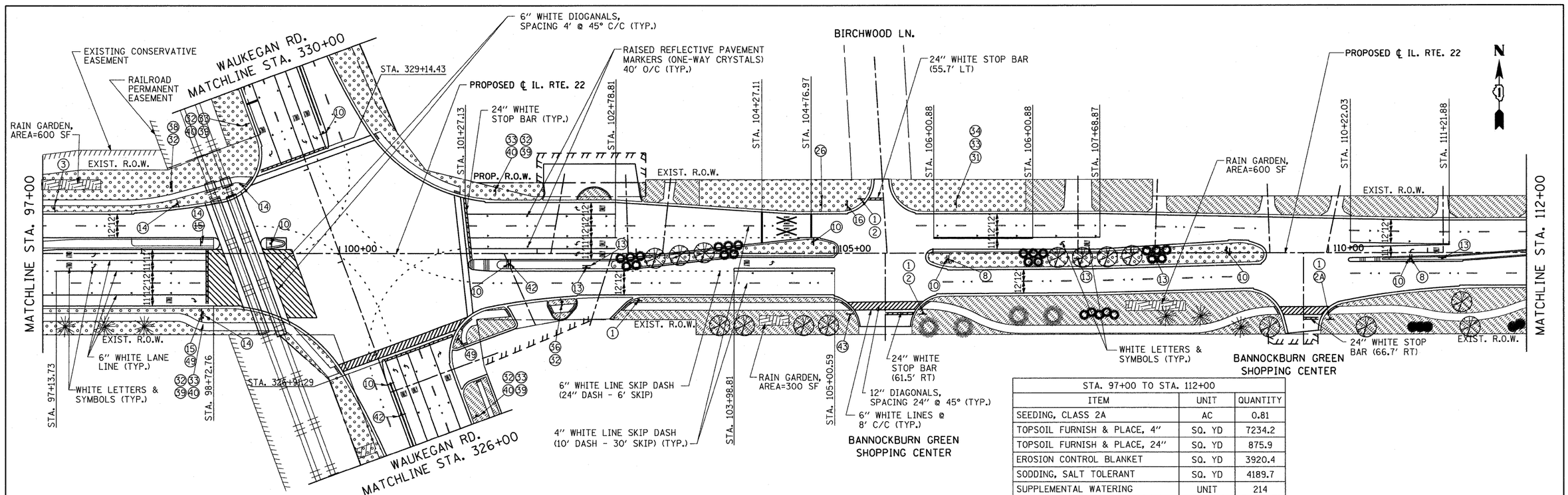
	PLOT DATE = 7/28/2010	CHECKED - JP	REVISED -
		DATE - 05/14/2010	REVISED -

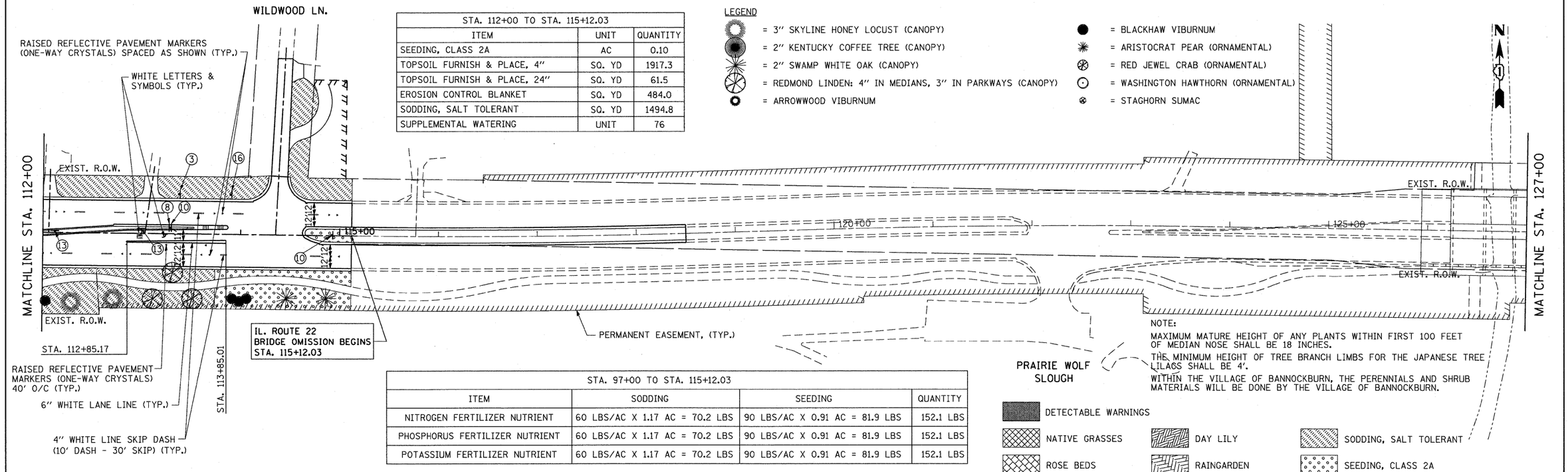
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 22
PAVEMENT MARKING, SIGNING & LANDSCAPING PLAN
SCALE: 1"=50' | SHEET NO. 127 OF 232 SHEETS | STA. 67+00 TO STA. 97+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	127
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		



STA. 97+00 TO STA. 112+00		
ITEM	UNIT	QUANTITY
SEEDING, CLASS 2A	AC	0.81
TOPSOIL FURNISH & PLACE, 4"	SQ. YD	7234.2
TOPSOIL FURNISH & PLACE, 24"	SQ. YD	875.9
EROSION CONTROL BLANKET	SQ. YD	3920.4
SODDING, SALT TOLERANT	SQ. YD	4189.7
SUPPLEMENTAL WATERING	UNIT	214



STA. 112+00 TO STA. 115+12.03		
ITEM	UNIT	QUANTITY
SEEDING, CLASS 2A	AC	0.10
TOPSOIL FURNISH & PLACE, 4"	SQ. YD	1917.3
TOPSOIL FURNISH & PLACE, 24"	SQ. YD	61.5
EROSION CONTROL BLANKET	SQ. YD	484.0
SODDING, SALT TOLERANT	SQ. YD	1494.8
SUPPLEMENTAL WATERING	UNIT	76

LEGEND

= 3" SKYLINE HONEY LOCUST (CANOPY)
= 2" KENTUCKY COFFEE TREE (CANOPY)
= 2" SWAMP WHITE OAK (CANOPY)
= REDMOND LINDEN: 4" IN MEDIANS, 3" IN PARKWAYS (CANOPY)
= ARROWWOOD VIBURNUM
= BLACKHAW VIBURNUM
= ARISTOCRAT PEAR (ORNAMENTAL)
= RED JEWEL CRAB (ORNAMENTAL)
= WASHINGTON HAWTHORN (ORNAMENTAL)
= STAGHORN SUMAC

STA. 97+00 TO STA. 115+12.03			
ITEM	SODDING	SEEDING	QUANTITY
NITROGEN FERTILIZER NUTRIENT	60 LBS/AC X 1.17 AC = 70.2 LBS	90 LBS/AC X 0.91 AC = 81.9 LBS	152.1 LBS
PHOSPHORUS FERTILIZER NUTRIENT	60 LBS/AC X 1.17 AC = 70.2 LBS	90 LBS/AC X 0.91 AC = 81.9 LBS	152.1 LBS
POTASSIUM FERTILIZER NUTRIENT	60 LBS/AC X 1.17 AC = 70.2 LBS	90 LBS/AC X 0.91 AC = 81.9 LBS	152.1 LBS

NOTE:
MAXIMUM MATURE HEIGHT OF ANY PLANTS WITHIN FIRST 100 FEET OF MEDIAN NOSE SHALL BE 18 INCHES.
THE MINIMUM HEIGHT OF TREE BRANCH LIMBS FOR THE JAPANESE TREE LILACS SHALL BE 4'.
WITHIN THE VILLAGE OF BANNOCKBURN, THE PERENNIALS AND SHRUB MATERIALS WILL BE DONE BY THE VILLAGE OF BANNOCKBURN.

DETECTABLE WARNINGS
NATIVE GRASSES
DAY LILY
SODDING, SALT TOLERANT
ROSE BEDS
RAINGARDEN
SEEDING, CLASS 2A

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	PLOT DATE = 7/28/2010	CHECKED - JP	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

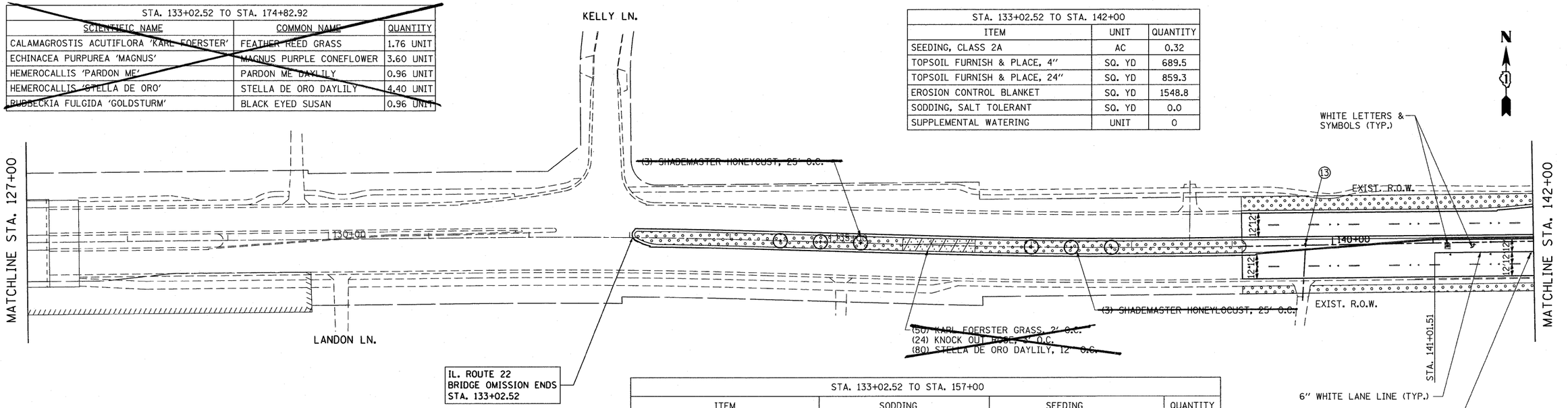
IL. ROUTE 22
PAVEMENT MARKING, SIGNING & LANDSCAPING PLAN

SCALE: 1"=50' | SHEET NO. 128 OF 232 SHEETS | STA. 97+00 TO STA. 127+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	128
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		

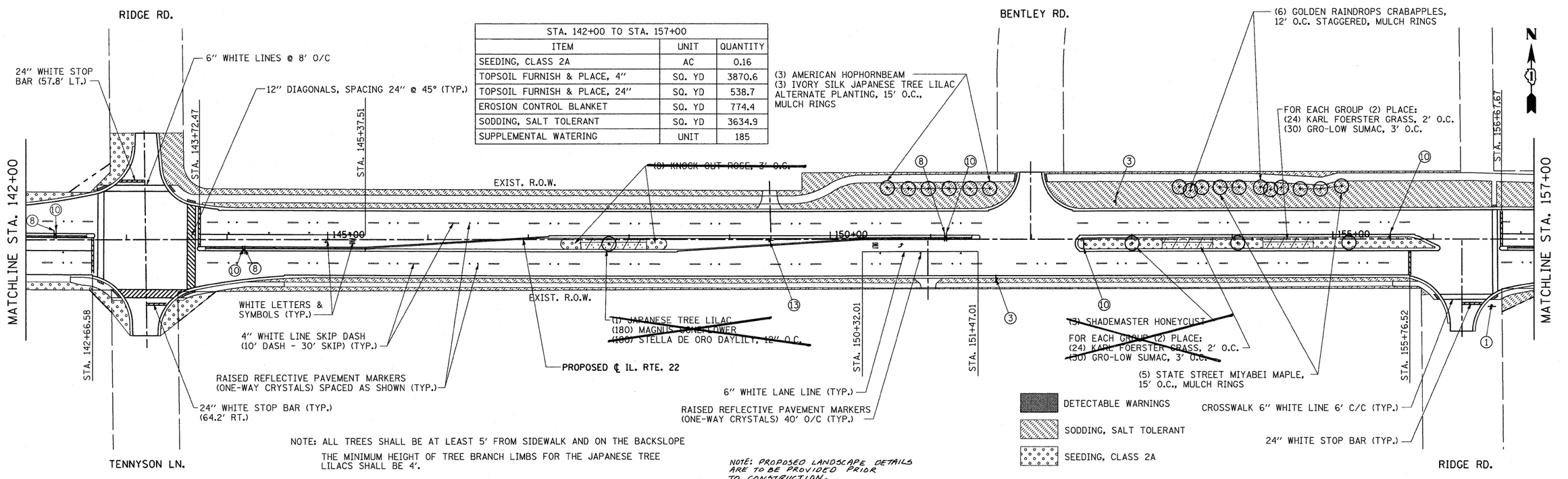
STA. 133+02.52 TO STA. 174+82.92		
SCIENTIFIC NAME	COMMON NAME	QUANTITY
CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER'	FEATHER REED GRASS	1.76 UNIT
ECHINACEA PURPUREA 'MAGNUS'	MAGNUS PURPLE CONEFLOWER	3.60 UNIT
HEMEROCALLIS 'PARDON ME'	PARDON ME DAYLILY	0.96 UNIT
HEMEROCALLIS 'STELLA DE ORO'	STELLA DE ORO DAYLILY	4.40 UNIT
RUDBECKIA FULGIDA 'GOLDSTURM'	BLACK EYED SUSAN	0.96 UNIT

STA. 133+02.52 TO STA. 142+00		
ITEM	UNIT	QUANTITY
SEEDING, CLASS 2A	AC	0.32
TOPSOIL FURNISH & PLACE, 4"	SQ. YD	689.5
TOPSOIL FURNISH & PLACE, 24"	SQ. YD	859.3
EROSION CONTROL BLANKET	SQ. YD	1548.8
SODDING, SALT TOLERANT	SQ. YD	0.0
SUPPLEMENTAL WATERING	UNIT	0



STA. 133+02.52 TO STA. 157+00			
ITEM	SODDING	SEEDING	QUANTITY
NITROGEN FERTILIZER NUTRIENT	60 LBS/AC X 0.75 AC = 45.0 LBS	90 LBS/AC X 0.48 AC = 43.2 LBS	88.2 LBS
PHOSPHORUS FERTILIZER NUTRIENT	60 LBS/AC X 0.75 AC = 45.0 LBS	90 LBS/AC X 0.48 AC = 43.2 LBS	88.2 LBS
POTASSIUM FERTILIZER NUTRIENT	60 LBS/AC X 0.75 AC = 45.0 LBS	90 LBS/AC X 0.48 AC = 43.2 LBS	88.2 LBS

STA. 142+00 TO STA. 157+00		
ITEM	UNIT	QUANTITY
SEEDING, CLASS 2A	AC	0.16
TOPSOIL FURNISH & PLACE, 4"	SQ. YD	3870.6
TOPSOIL FURNISH & PLACE, 24"	SQ. YD	538.7
EROSION CONTROL BLANKET	SQ. YD	774.4
SODDING, SALT TOLERANT	SQ. YD	3634.9
SUPPLEMENTAL WATERING	UNIT	185



NOTE: ALL TREES SHALL BE AT LEAST 5' FROM SIDEWALK AND ON THE BACKSLOPE

THE MINIMUM HEIGHT OF TREE BRANCH LIMBS FOR THE JAPANESE TREE LILACS SHALL BE 4'.

NOTE: PROPOSED LANDSCAPE DETAILS ARE TO BE PROVIDED PRIOR TO CONSTRUCTION.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

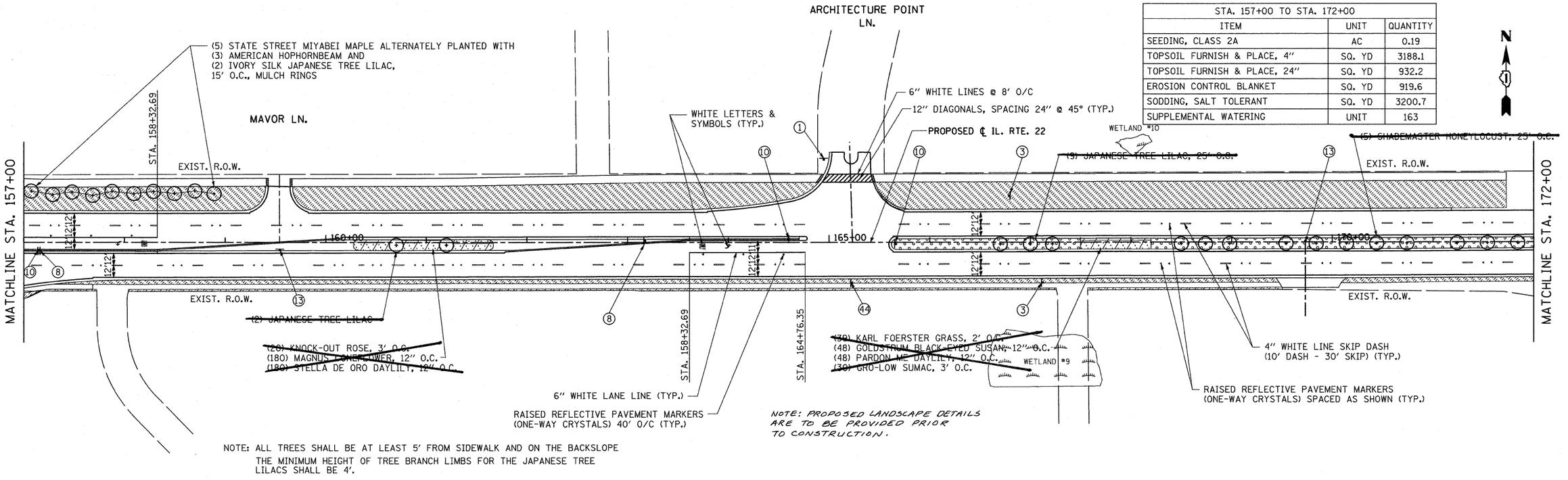
IL. ROUTE 22
PAVEMENT MARKING, SIGNING & LANDSCAPING PLAN

SCALE: 1"=50' | SHEET NO. 129 OF 232 SHEETS | STA. 127+00 TO STA. 157+00

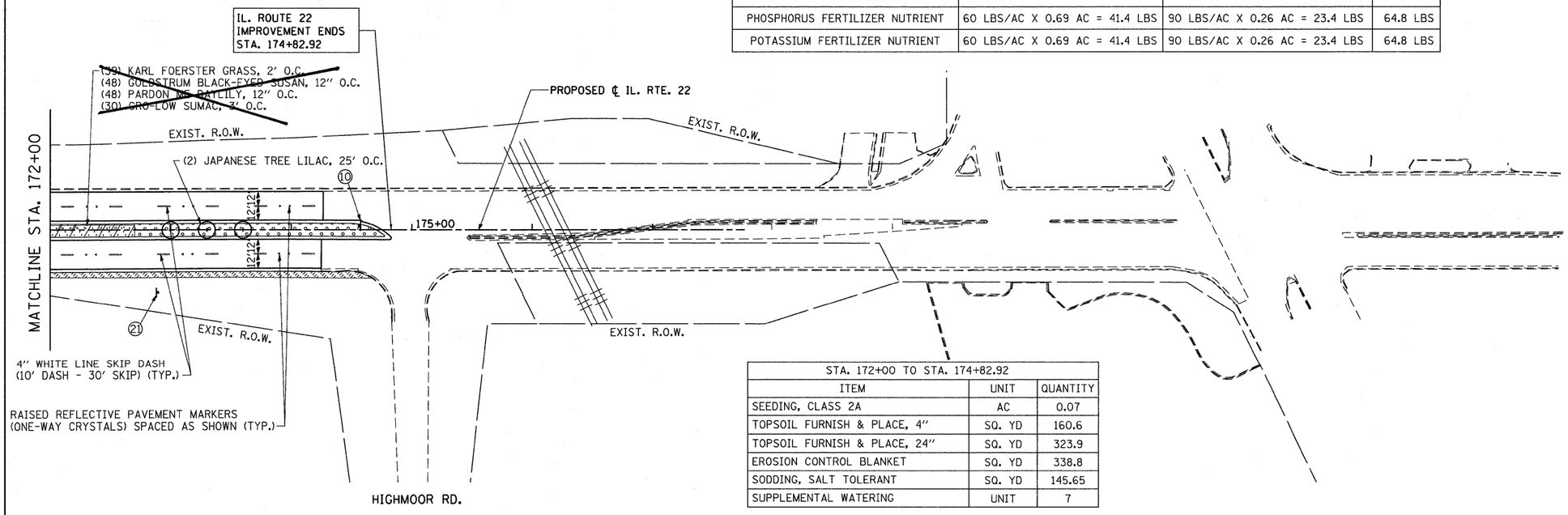
Rev.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	129
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		

STA. 157+00 TO STA. 172+00		
ITEM	UNIT	QUANTITY
SEEDING, CLASS 2A	AC	0.19
TOPSOIL FURNISH & PLACE, 4"	SQ. YD	3188.1
TOPSOIL FURNISH & PLACE, 24"	SQ. YD	932.2
EROSION CONTROL BLANKET	SQ. YD	919.6
SODDING, SALT TOLERANT	SQ. YD	3200.7
SUPPLEMENTAL WATERING	UNIT	163



STA. 157+00 TO STA. 174+82.92			
ITEM	SODDING	SEEDING	QUANTITY
NITROGEN FERTILIZER NUTRIENT	60 LBS/AC X 0.69 AC = 41.4 LBS	90 LBS/AC X 0.26 AC = 23.4 LBS	64.8 LBS
PHOSPHORUS FERTILIZER NUTRIENT	60 LBS/AC X 0.69 AC = 41.4 LBS	90 LBS/AC X 0.26 AC = 23.4 LBS	64.8 LBS
POTASSIUM FERTILIZER NUTRIENT	60 LBS/AC X 0.69 AC = 41.4 LBS	90 LBS/AC X 0.26 AC = 23.4 LBS	64.8 LBS



STA. 172+00 TO STA. 174+82.92		
ITEM	UNIT	QUANTITY
SEEDING, CLASS 2A	AC	0.07
TOPSOIL FURNISH & PLACE, 4"	SQ. YD	160.6
TOPSOIL FURNISH & PLACE, 24"	SQ. YD	323.9
EROSION CONTROL BLANKET	SQ. YD	338.8
SODDING, SALT TOLERANT	SQ. YD	145.65
SUPPLEMENTAL WATERING	UNIT	7

DETECTABLE WARNINGS

SODDING, SALT TOLERANT

SEEDING, CLASS 2A

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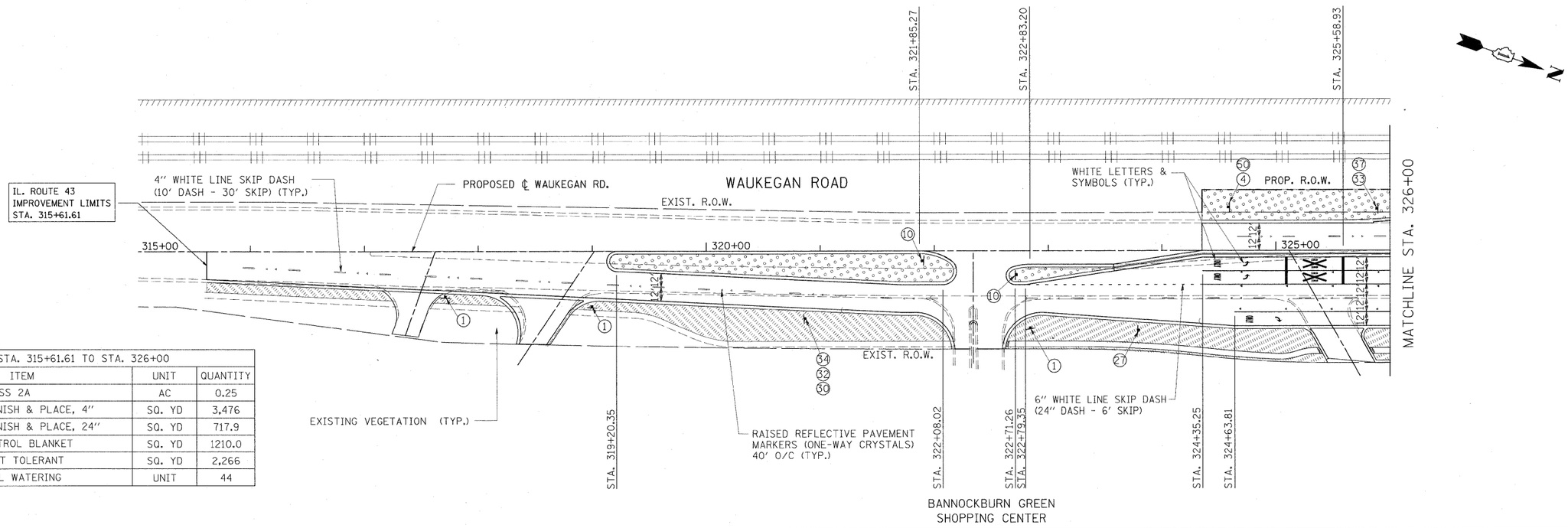
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

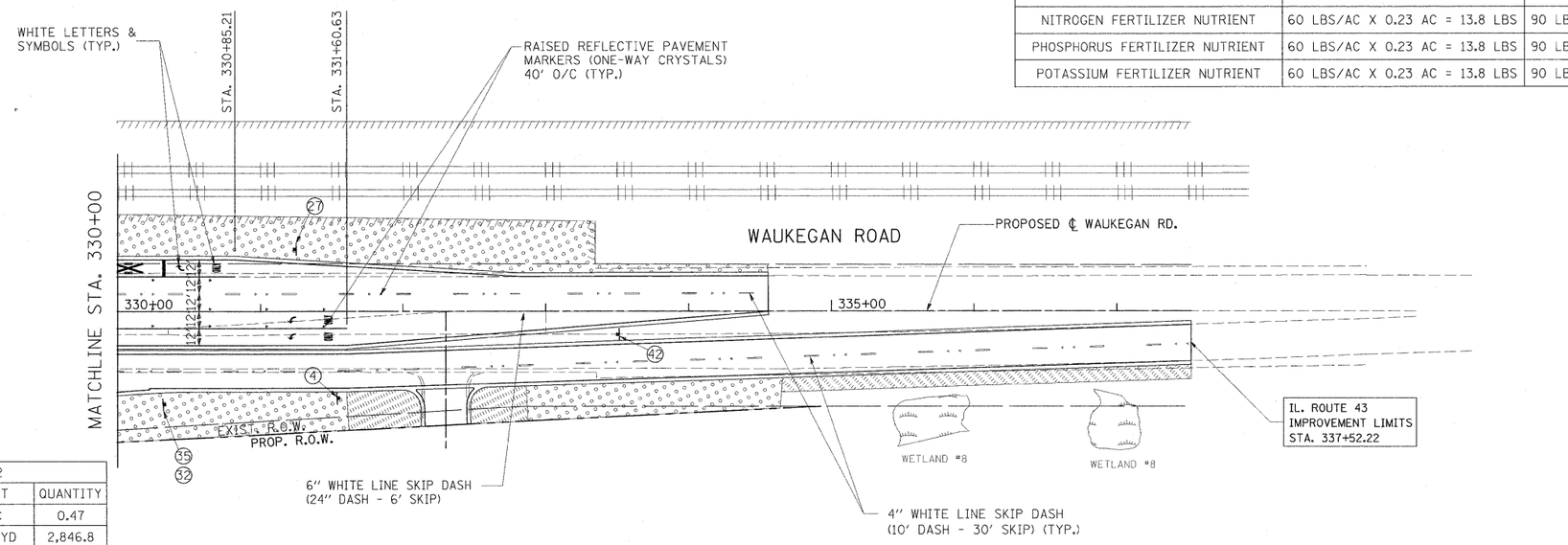
IL. ROUTE 22
PAVEMENT MARKING, SIGNING & LANDSCAPING PLAN
SCALE: 1"=50' | SHEET NO. 130 OF 232 SHEETS | STA. 157+00 TO STA. 174+82.92

Rev

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	130
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		



STA. 315+61.61 TO STA. 326+00		
ITEM	UNIT	QUANTITY
SEEDING, CLASS 2A	AC	0.25
TOPSOIL FURNISH & PLACE, 4"	SQ. YD	3,476
TOPSOIL FURNISH & PLACE, 24"	SQ. YD	717.9
EROSION CONTROL BLANKET	SQ. YD	1210.0
SODDING, SALT TOLERANT	SQ. YD	2,266
SUPPLEMENTAL WATERING	UNIT	44



STA. 315+61.61 TO STA. 326+00 & STA. 330+00 TO STA. 337+52.22			
ITEM	SODDING	SEEDING	QUANTITY
NITROGEN FERTILIZER NUTRIENT	60 LBS/AC X 0.23 AC = 13.8 LBS	90 LBS/AC X 0.72 AC = 64.8 LBS	78.6 LBS
PHOSPHORUS FERTILIZER NUTRIENT	60 LBS/AC X 0.23 AC = 13.8 LBS	90 LBS/AC X 0.72 AC = 64.8 LBS	78.6 LBS
POTASSIUM FERTILIZER NUTRIENT	60 LBS/AC X 0.23 AC = 13.8 LBS	90 LBS/AC X 0.72 AC = 64.8 LBS	78.6 LBS

STA. 330+00 TO STA. 337+52.22		
ITEM	UNIT	QUANTITY
SEEDING, CLASS 2A	AC	0.47
TOPSOIL FURNISH & PLACE, 4"	SQ. YD	2,846.8
TOPSOIL FURNISH & PLACE, 24"	SQ. YD	0.0
EROSION CONTROL BLANKET	SQ. YD	2,274.8
SODDING, SALT TOLERANT	SQ. YD	572
SUPPLEMENTAL WATERING	UNIT	13

DETECTABLE WARNINGS

SODDING, SALT TOLERANT

SEEDING, CLASS 2A

NOTE: ALL TREES SHALL BE AT LEAST 5' FROM SIDEWALK AND ON THE BACKSLOPE
THE MINIMUM HEIGHT OF TREE BRANCH LIMBS FOR THE JAPANESE TREE LILACS SHALL BE 4'.
WITHIN THE VILLAGE OF BANNOCKBURN, THE PERENNIALS AND SHRUB MATERIALS WILL BE DONE BY THE VILLAGE OF BANNOCKBURN.

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	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WAUKEGAN ROAD
PAVEMENT MARKING, SIGNING & LANDSCAPING PLAN

SCALE: 1"=50' | SHEET NO. 130 OF 232 SHEETS | STA. 315+61.61 TO STA. 337+52.22

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	131
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		

SUMMARY OF TRAFFIC SIGNAL QUANTITIES

ITEM	UNIT	TOTAL QUANTITY	IL. RTE. 22 & TELEGRAPH RD.	IL. RTE. 22 & WAUKEGAN RD.	IL. RTE. 22 & RIDGE RD./ TENNYSON LN.	IL. RTE. 22 & RIDGE RD.	INTERCONNECT
SIGN PANEL - TYPE 1	SQ FT	176	33	78.5	45	19.5	
SIGN PANEL - TYPE 2	SQ FT	30		30.0			
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	12,554	553	781	554	498	10,168
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	61	41	20			
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	165	13	49	26	77	
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	292		268	12	12	
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	3,213	159	573	111	94	2,276
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	134	7	74		53	
CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	58	58				
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	1,774	452	765	365	192	
CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	158					158
REMOVE EXISTING JUNCTION BOX	EACH	2		2			
HANDHOLE	EACH	38	4	8	4	4	18
HEAVY-DUTY HANDHOLE	EACH	10	2	5	2	1	
DOUBLE HANDHOLE	EACH	9	2	4	2	1	
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	13,072	607	1,118	592	587	10,168
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	2			1	1	
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1	1				
TRANSCEIVER - FIBER OPTIC	EACH	4	1	1	1	1	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	3,518	839	1,207	1,112	360	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	7,165	1,426	3,664	1,422	653	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	10,401	1,970	5,489	1,735	1,207	
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3,761	803	1,862	694	402	
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	13,630	2,255	7,682	2,053	1,640	
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	216	67	64	44	41	
TRAFFIC SIGNAL POST, GALVANIZED STEEL 9 FT.	EACH	1		1			
TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2	1			1	
TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT.	EACH	1		1			
TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1				1	
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4	2	1		1	
STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1	1				
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	3	1		1	1	
STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1				1	
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1				1	
STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1			1		
STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1			1		
STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1	1				
STEEL MAST ARM ASSEMBLY AND POLE, 56 FT.	EACH	1		1			
STEEL MAST ARM ASSEMBLY AND POLE, 60 FT.	EACH	1	1				
STEEL COMB. MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1			1		
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 54 FT. AND 50 FT.	EACH	1		1			
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 58 FT. AND 46 FT.	EACH	1		1			
STEEL COMB. MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 70 FT. AND 40 FT.	EACH	1		1			
CONCRETE FOUNDATION, TYPE A	FOOT	36	12	12		12	
CONCRETE FOUNDATION, TYPE C	FOOT	16	4	4	4	4	
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	140	37	16	52	35	
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	90	21	69			
DRILL EXISTING HANDHOLE	EACH	2					2
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	38	8	16	8	6	
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	8	2	2	2	2	
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	5	2		2	1	
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	10	2	5	2	1	
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1		1			
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	4		4			
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	1		1			
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6	4			2	
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	6	1		4	1	
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	48	10	21	10	7	
INDUCTIVE LOOP DETECTOR	EACH	43	8	21	8	6	
DETECTOR LOOP, TYPE I	FOOT	1,117			689	428	
LIGHT DETECTOR	EACH	7	3	4			
LIGHT DETECTOR AMPLIFIER	EACH	2	1	1			
PEDESTRIAN PUSH-BUTTON	EACH	24	6	6	8	4	
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	4	1	1	1	1	
ILLUMINATED SIGN, LED	EACH	2		2			
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	4			2	2	
RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	2			1	1	
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	4	1	1	1	1	
REMOVE EXISTING HANDHOLE	EACH	37	8	15	8	6	
REMOVE EXISTING CONCRETE FOUNDATION	EACH	33	9	9	9	6	
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	16,334					16,334
PREFORMED DETECTOR LOOP	FOOT	2,653	1,006	1,647			
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1					1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	4	1	1	1	1	
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE V CABINET (SPECIAL)	EACH	1		1			
SERVICE INSTALLATION - POLE MOUNTED	EACH	4	1	1	1	1	
UNINTERRUPTIBLE POWER SUPPLY	EACH	4	1	1	1	1	
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	16,508					16,508
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	2,632	562	1,136	461	473	
ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C	FOOT	181		181			
ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	2,299	545	1,231	258	265	
RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1		1			
MEDIA CONVERTER	EACH	1					1
ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	528		528			
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1		1			
LAYER II (DATALINK) SWITCH	EACH	1		1			
TERMINATE FIBER IN CABINET	EACH	20					20
SPLICE FIBER IN CABINET	EACH	24					24
VIDEO ENCODER	EACH	1		1			
ELECTRIC CABLE IN CONDUIT, 4/C #20, VIDEO	FOOT	528		528			

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	PLOT SCALE = 50.0000 ' / IN.	CHECKED - JP	REVISED -
	PLOT DATE = 7/28/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 22
SUMMARY OF TRAFFIC SIGNAL QUANTITIES

SCALE: NTS | SHEET NO. 132 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	132
		CONTRACT NO. 60860		
		ILLINOIS	FED. AID PROJECT	

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. 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.

3. 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.

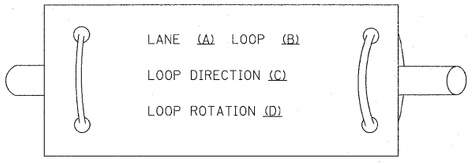
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES 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.

6. 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.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

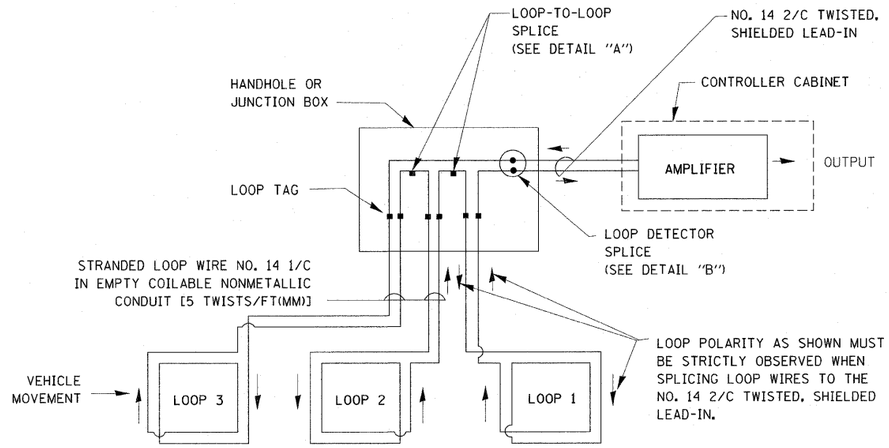


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

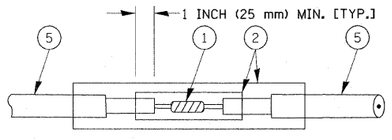
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

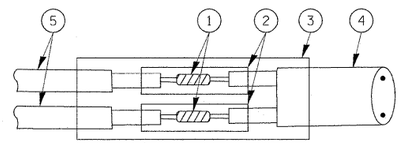


DETECTOR LOOP WIRING SCHEMATIC

- 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.

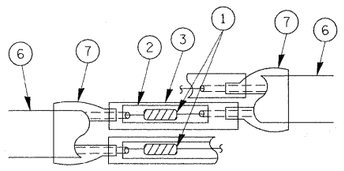


DETAIL "A"
LOOP-TO-LOOP SPLICE



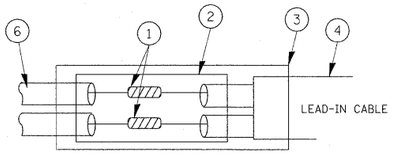
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

(1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.

(2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.

(3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

(6) PRE-FORMED LOOP

(7) XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

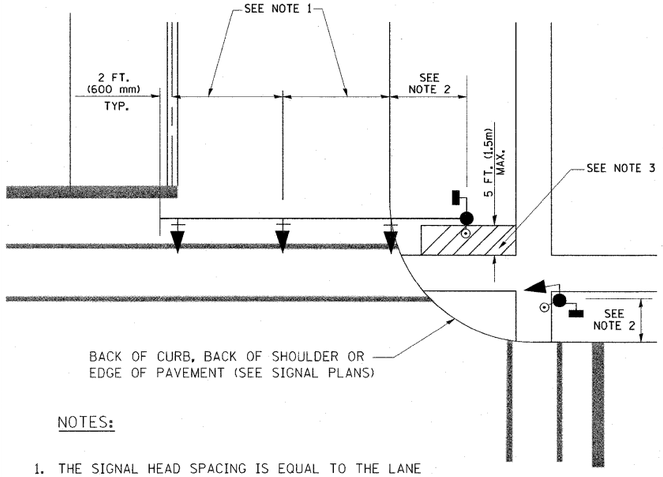
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: N.T.S. | SHEET NO. 1 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	133
		CONTRACT NO. 60860		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

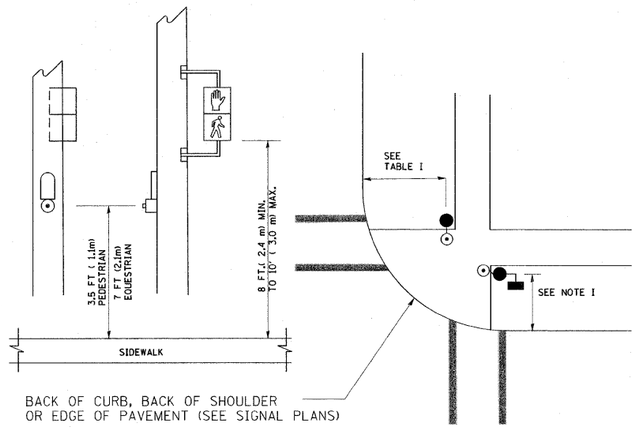
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

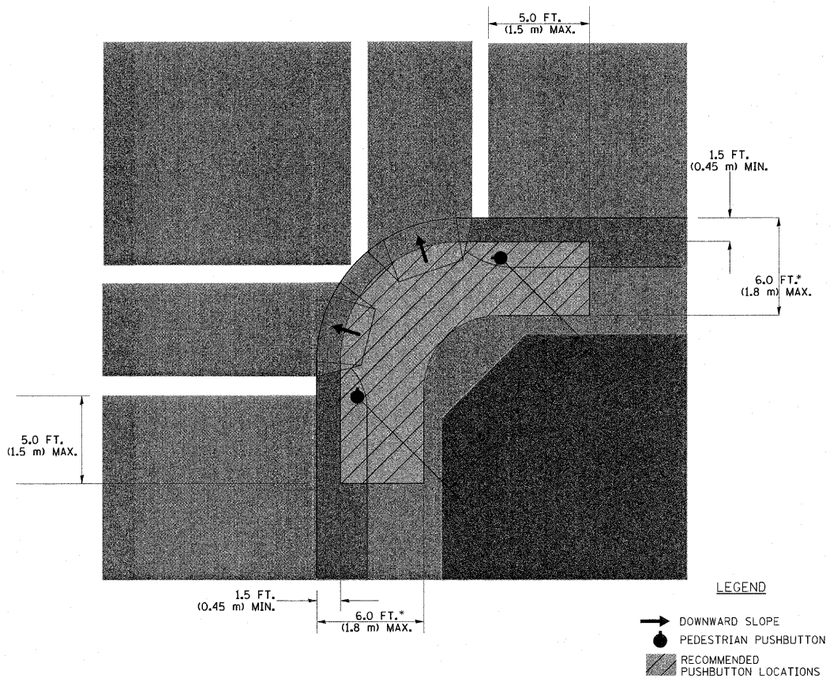
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- •• WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. 2 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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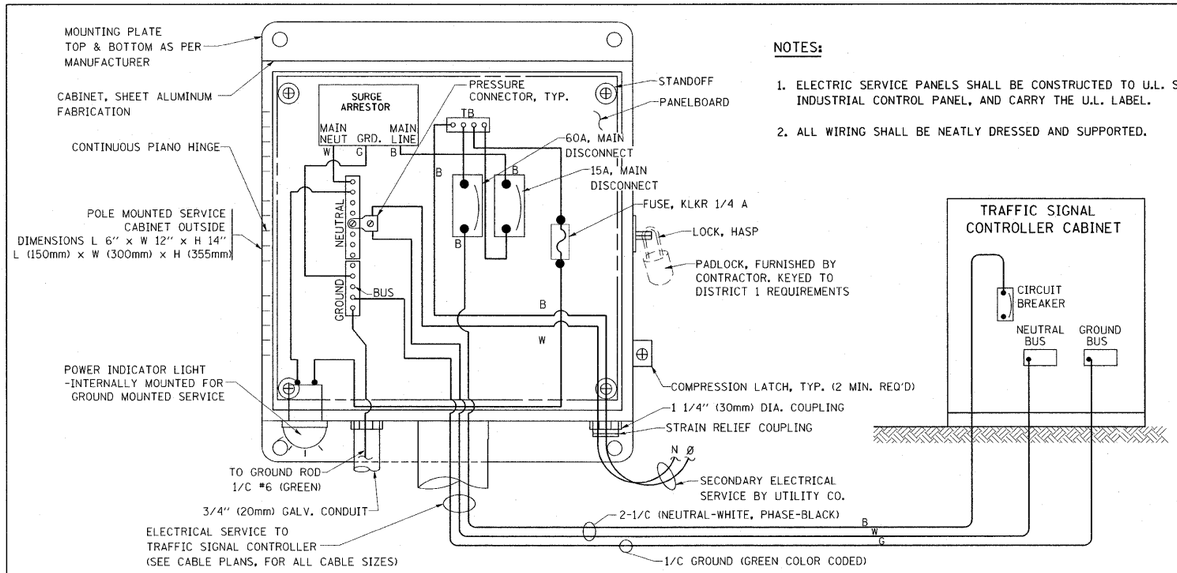
		CONTRACT NO. 60860		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



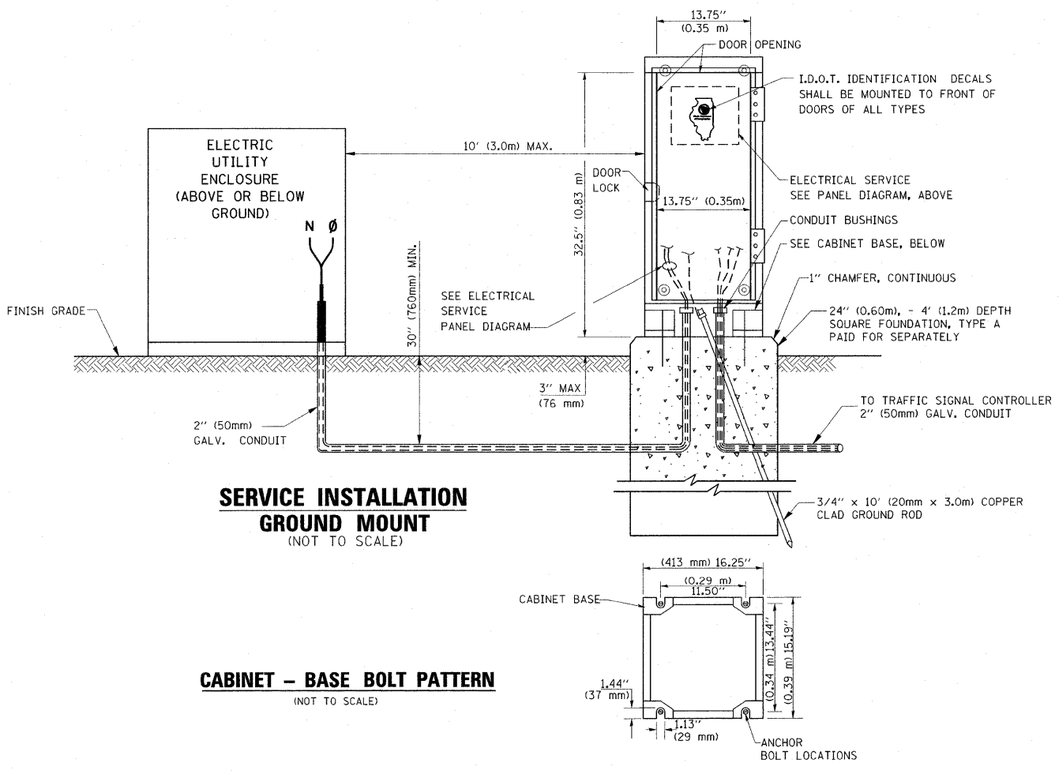
NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

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

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)

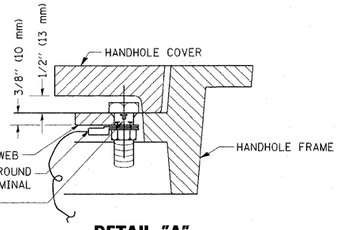


SERVICE INSTALLATION GROUND MOUNT

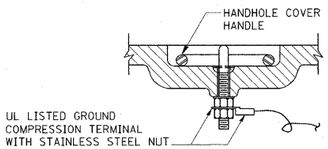
(NOT TO SCALE)

CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



DETAIL "A"

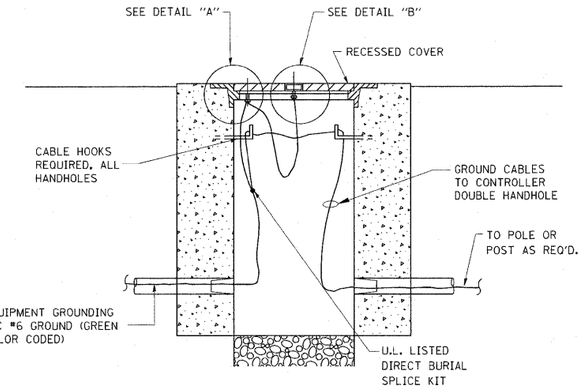


DETAIL "B"

NOTES:

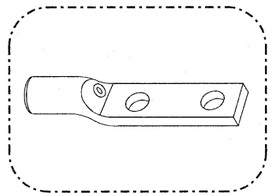
GROUNDING SYSTEM

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.

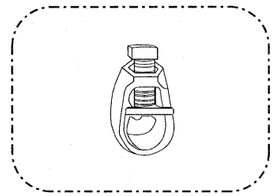


HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



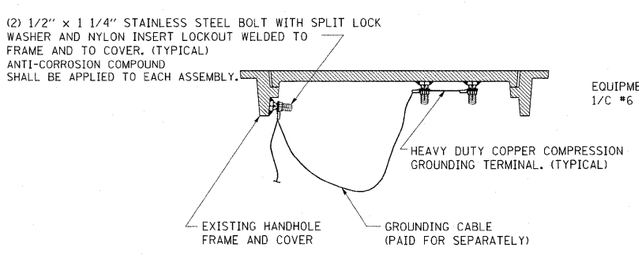
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



¾" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

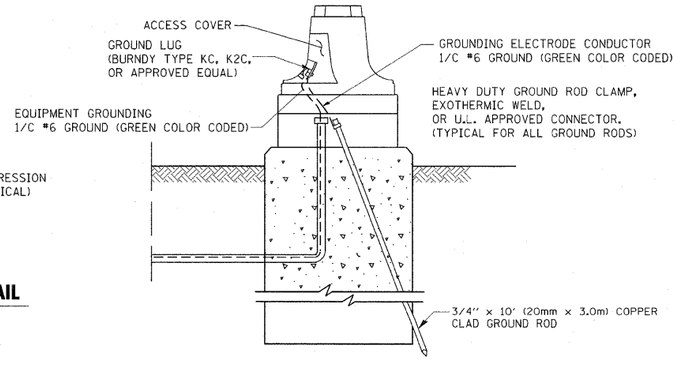
NOTES:

- 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.



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



MAST ARM POLE / POST–GROUNDING DETAIL

(NOT TO SCALE)

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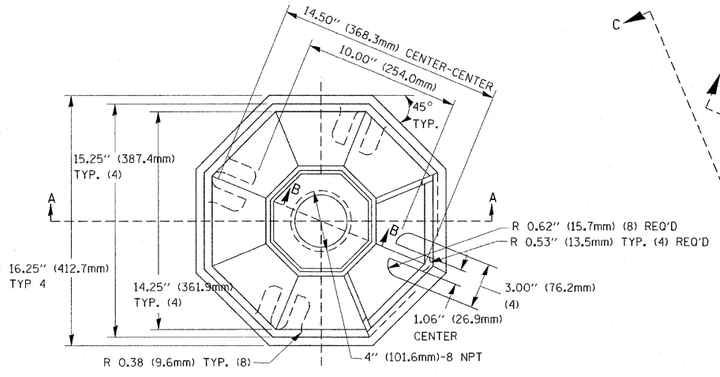
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

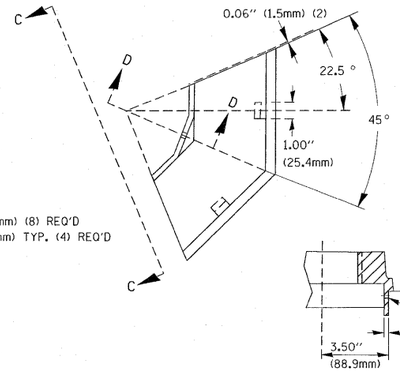
DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

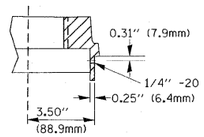
SCALE: | SHEET NO. 3 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	135
		CONTRACT NO. 60860		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

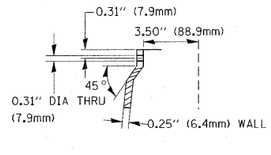


TOP VIEW

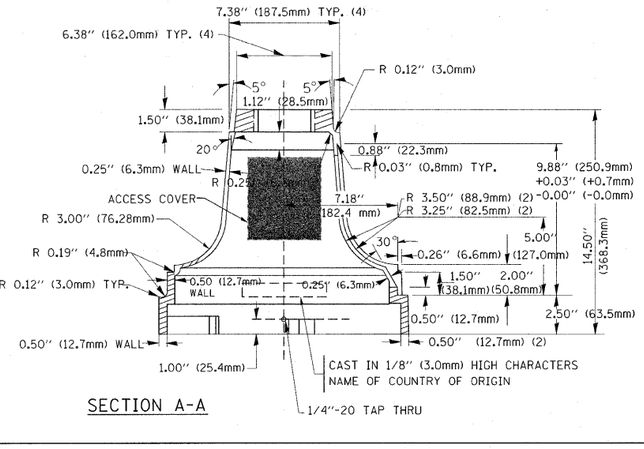




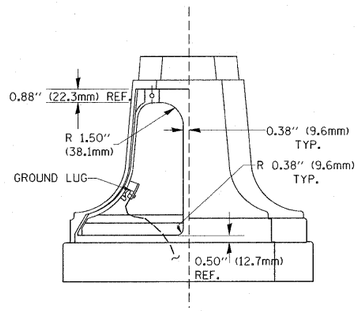
SECTION B-B



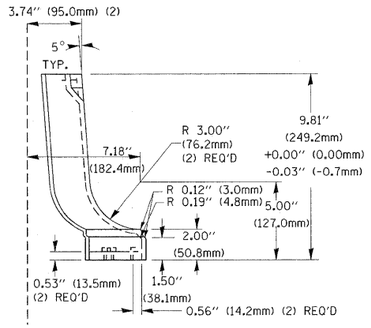
SECTION D-D



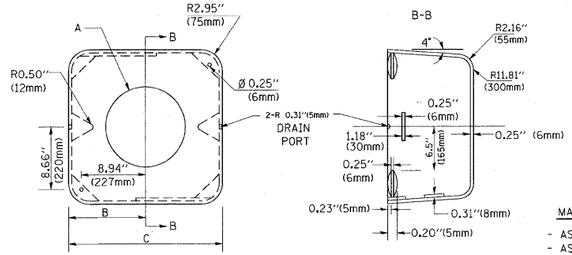
SECTION A-A



VIEW C-C



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

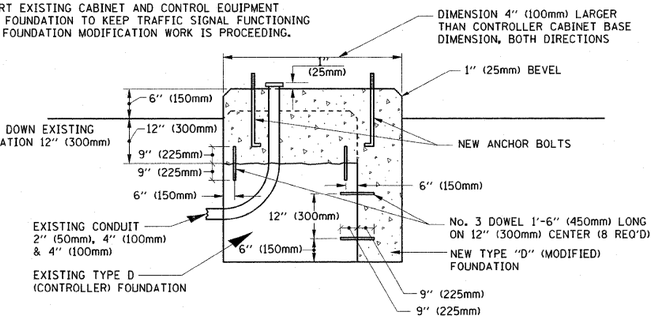
A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

SHROUD

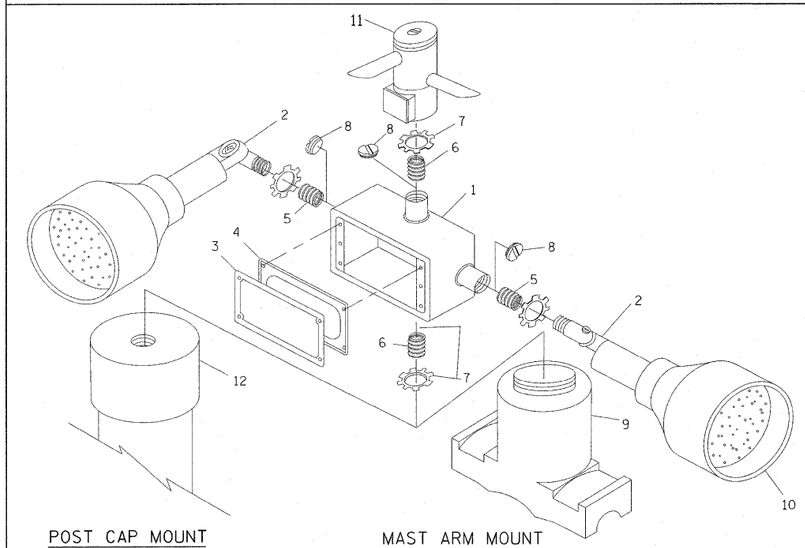
NOTES:

1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

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



MODIFY EXISTING TYPE "D" FOUNDATION



POST CAP MOUNT

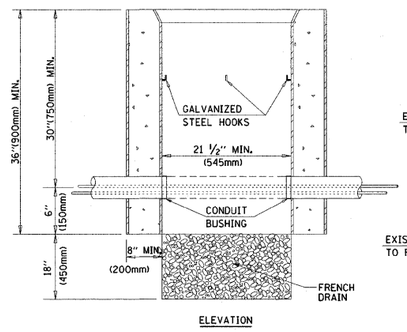
MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

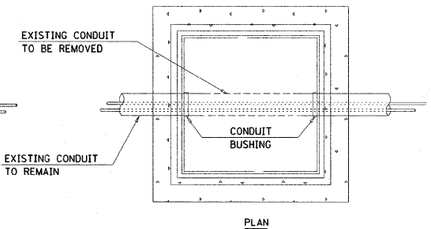
ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. 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
3. 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 ¾"(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.



ELEVATION



PLAN

NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

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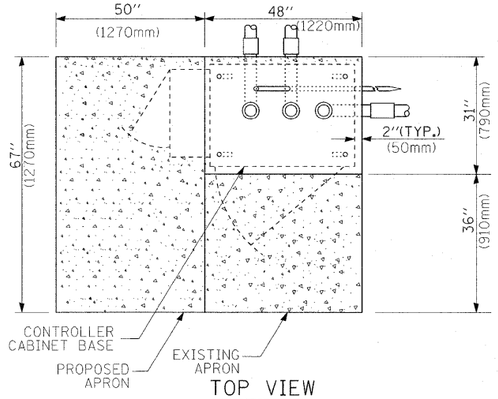
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

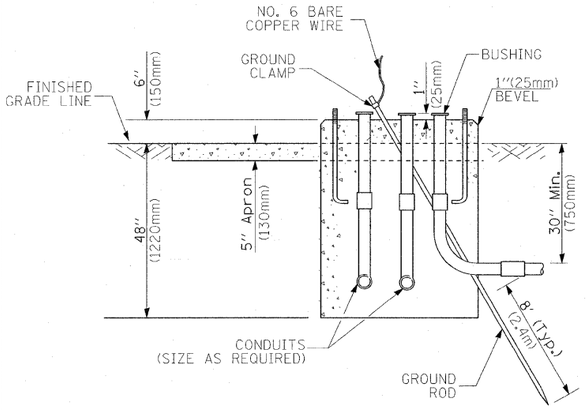
DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. 4 OF 6 SHEETS | STA. | TO STA.

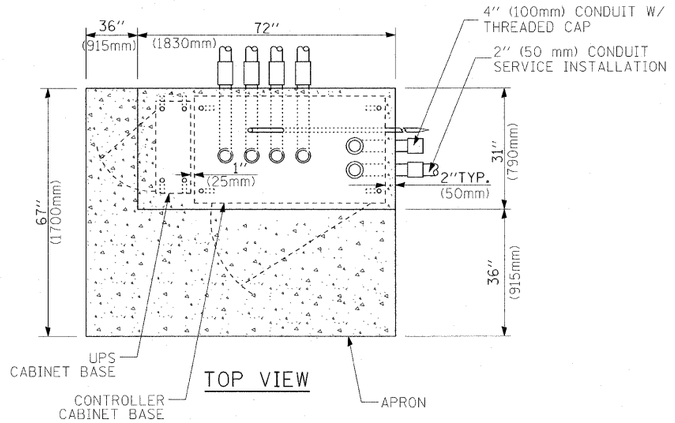
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	136
		CONTRACT NO. 60860		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



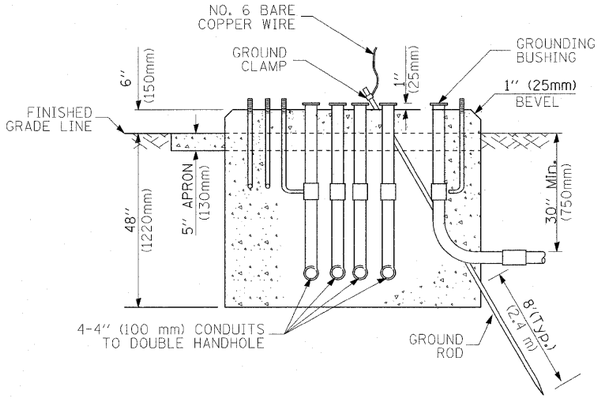
TOP VIEW



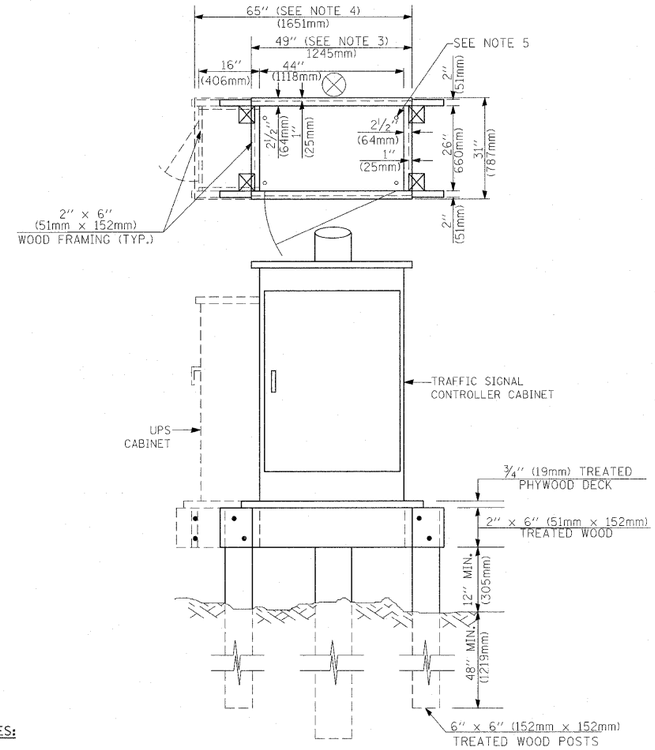
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



TOP VIEW



TYPE C
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26″ x 44″ (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16″ x 25″ (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4′-0″ (1.2m)
TYPE C - CONTROLLER W/ UPS	4′-0″ (1.2m)
TYPE D - CONTROLLER	4′-0″ (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4′-0″ (1.2m)

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30′ (9.1 m)	10′-0″ (3.0 m)	30″ (750mm)	24″ (600mm)	8	6(19)
Greater than or equal to 30′ (9.1 m) and less than 40′ (12.2 m)	13′-6″ (4.1 m)	30″ (750mm)	24″ (600mm)	8	6(19)
	11′-0″ (3.4 m)	36″ (900mm)	30″ (750mm)	12	7(22)
Greater than or equal to 40′ (12.2 m) and less than 50′ (15.2 m)	13′-0″ (4.0 m)	36″ (900mm)	30″ (750mm)	12	7(22)
Greater than or equal to 50′ (15.2 m) and up to 55′ (16.8 m)	15′-0″ (4.6 m)	36″ (900mm)	30″ (750mm)	12	7(22)
Greater than or equal to 56′ (16.8 m) and less than 65′ (19.8 m)	21′-0″ (6.4 m)	42″ (1060mm)	36″ (900mm)	16	8(25)
Greater than or equal to 65′ (19.8 m) and up to 75′ (22.9 m)	25′-0″ (7.6 m)	42″ (1060mm)	36″ (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36″ (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42″ (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: | SHEET NO. 5 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	137
		CONTRACT NO. 60860		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R		
RAILROAD CONTROL CABINET		R R	R R
COMMUNICATIONS CABINET	R CC	ECC	CC
MASTER CONTROLLER		EMC	MC
MASTER MASTER CONTROLLER		EMMC	MMC
UNINTERRUPTIBLE POWER SUPPLY	R UPS	EUPS	UPS
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	R	P	P
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R T	P T	P T
STEEL MAST ARM ASSEMBLY AND POLE	R		
ALUMINUM MAST ARM ASSEMBLY AND POLE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R PTZ	PTZ	PTZ
SIGNAL POST	R		
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM	R		
GUY WIRE	R		
SIGNAL HEAD	R		
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)			2
SIGNAL HEAD WITH BACKPLATE	R		
SIGNAL HEAD OPTICALLY PROGRAMMED	R "P"	"P"	"P"
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R "F"	"F"	"F"
PEDESTRIAN SIGNAL HEAD	R		
PEDESTRIAN PUSHBUTTON DETECTOR	R		
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	APS	APS
ILLUMINATED SIGN "NO LEFT TURN"	R		
ILLUMINATED SIGN "NO RIGHT TURN"	R		
DETECTOR LOOP, TYPE I			
PREFORMED DETECTOR LOOP		P	P
MICROWAVE VEHICLE SENSOR	R M	M	M
VIDEO DETECTION CAMERA	R V	V	V
VIDEO DETECTION ZONE			
PAN, TILT, ZOOM CAMERA	R PTZ	PTZ	PTZ
WIRELESS DETECTOR SENSOR	R W	W	W
WIRELESS ACCESS POINT	R		

ITEM	REMOVAL	EXISTING	PROPOSED
EMERGENCY VEHICLE LIGHT DETECTOR	R		
CONFIRMATION BEACON	R		
HANDHOLE	R		
HEAVY DUTY HANDHOLE	R H	H	H
DOUBLE HANDHOLE	R		
JUNCTION BOX	R		
GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)			
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	R		
COMMON TRENCH			CT
COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC
SYSTEM ITEM		S	S
INTERSECTION ITEM		I	IP
REMOVE ITEM	R		
RELOCATE ITEM	RL		
ABANDON ITEM	A		
12" (300mm) TRAFFIC SIGNAL SECTION		R	R
12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		R Y G	
SIGNAL FACE		R Y G ◄Y ◄G	R Y G ◄Y ◄G
SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		R Y G ◄Y ◄G "P"	R Y G ◄Y ◄G "P"
12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		DW W	
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED		PW W	
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			
PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		C D	C D
RADIO INTERCONNECT	R		
RADIO REPEATER	R ERR	ERR	RR
DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		5	5
GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		1	1

ITEM	REMOVAL	EXISTING	PROPOSED
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		1	1
COAXIAL CABLE		C	C
VENDOR CABLE FOR CAMERA		V	V
COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		6	6
FIBER OPTIC CABLE NO. 62.5/125, MM12F		12F	
FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		24F	24F
FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		C	C
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF		
SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF		
INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
SAMPLING (SYSTEM) DETECTOR		S	S
EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		P	
EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PP	
PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS

RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET	R R	R R
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

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		DRAWN - BCK	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 6 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	138
		CONTRACT NO. 60860		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

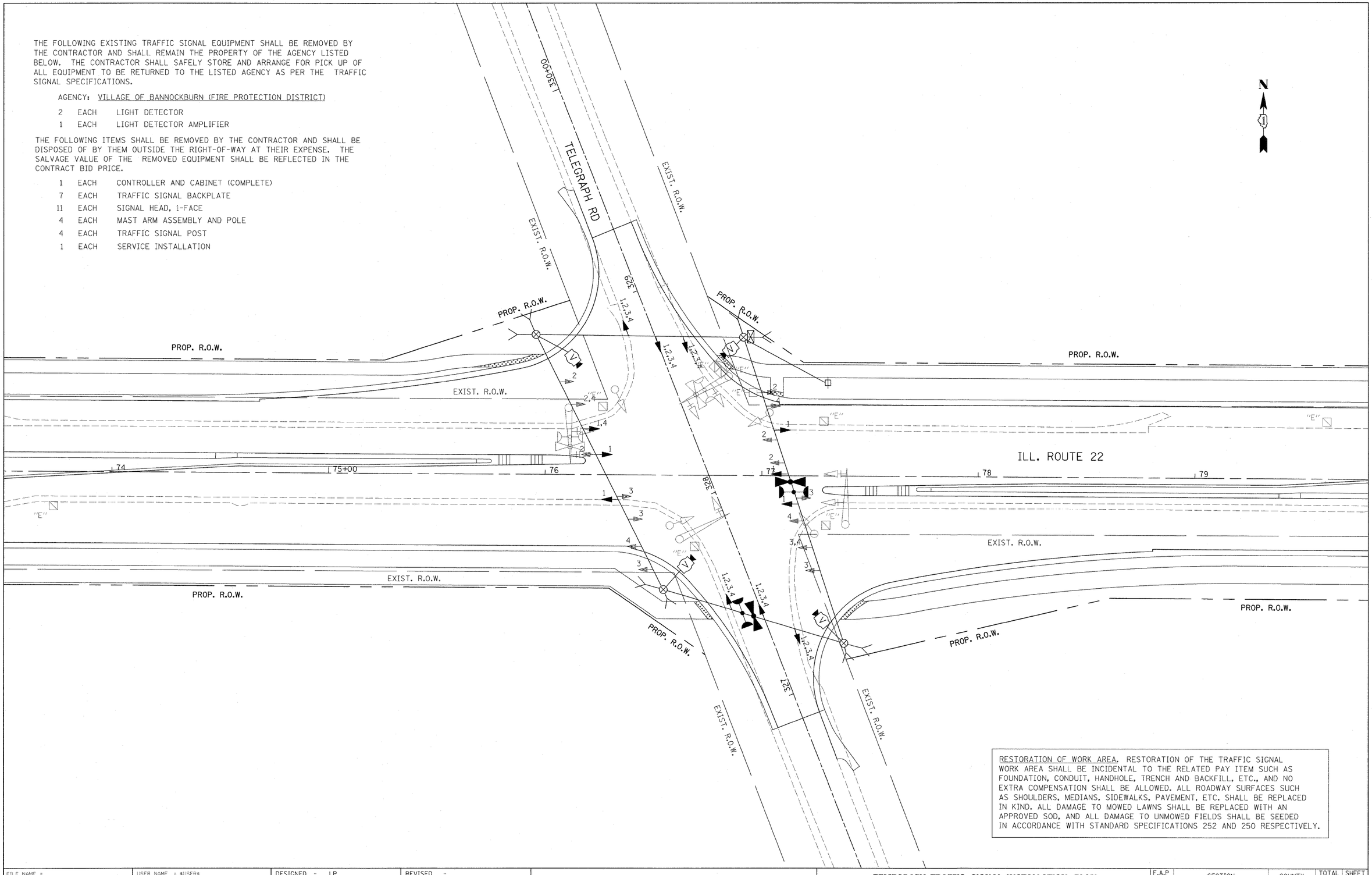
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: VILLAGE OF BANNOCKBURN (FIRE PROTECTION DISTRICT)

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.

1	EACH	CONTROLLER AND CABINET (COMPLETE)
7	EACH	TRAFFIC SIGNAL BACKPLATE
11	EACH	SIGNAL HEAD, 1-FACE
4	EACH	MAST ARM ASSEMBLY AND POLE
4	EACH	TRAFFIC SIGNAL POST
1	EACH	SERVICE INSTALLATION



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.

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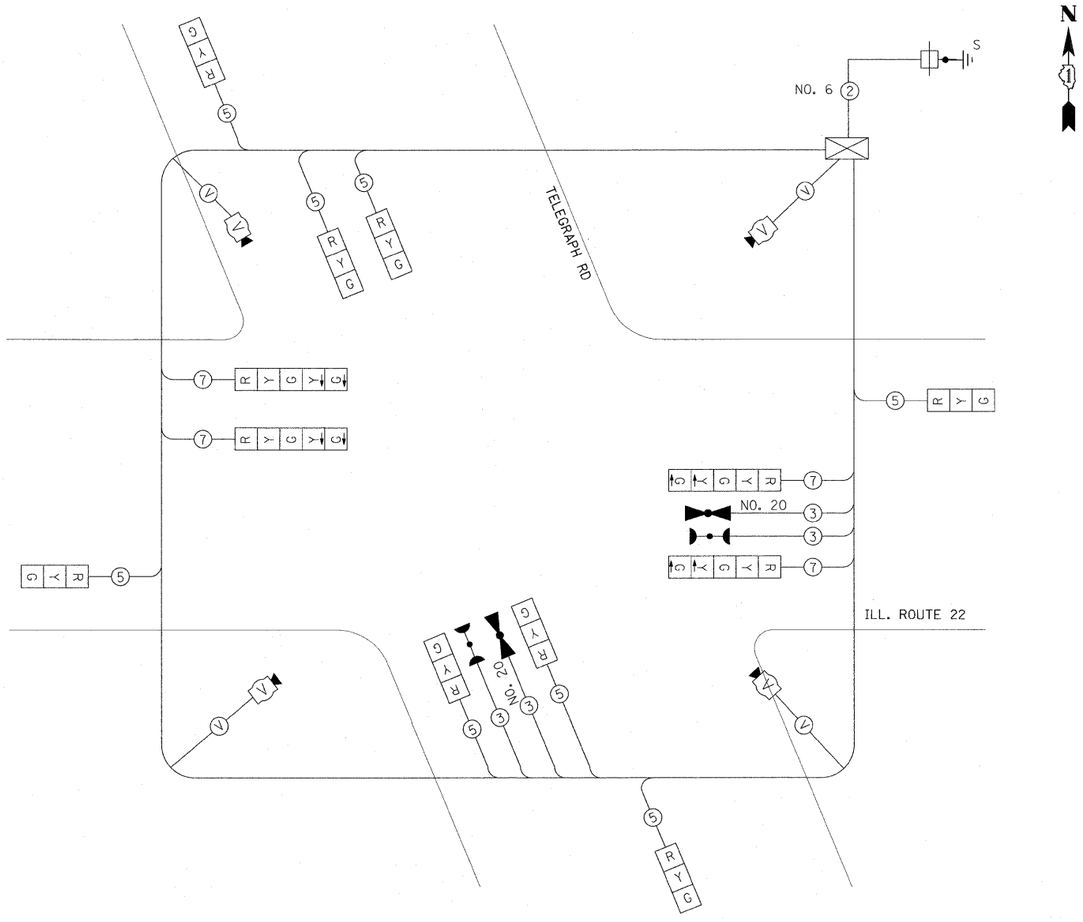
	PLOT SCALE = $SCALE$	CHECKED - JP	REVISED -
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
IL. ROUTE 22 AND TELEGRAPH ROAD

SCALE: 1"=20' | SHEET NO. 139 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	139
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		



TEMPORARY CABLE PLAN
NOT TO SCALE

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 SUPPLIES 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 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 LED AND 12" (300MM) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATED 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 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.

7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.

8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.

9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.

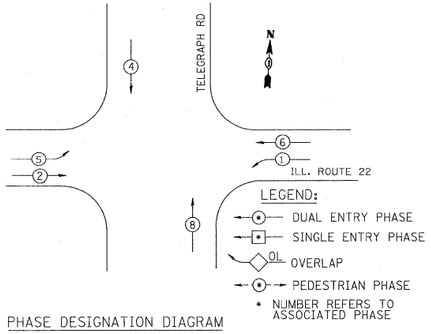
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	X WATTAGE INCAND	X WATTAGE LED	% OPERATION	
SIGNAL (RED)	12		17	0.50	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW	8		12	0.10	9.6
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM	1	150		1.00	150
FLASHER			25	0.50	
				TOTAL =	481.6

ENERGY COST TO: Illinois Department of Transportation
Division of Highways / District 1
201 W Center Court / Schaumburg, Illinois 60196-1096

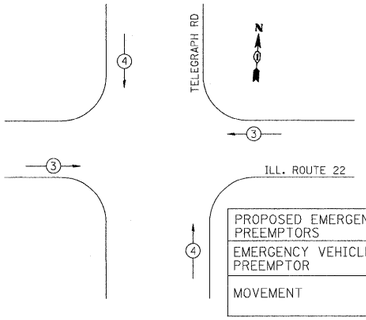
ENERGY SUPPLY: CONTACT: MR. VARUGHESE SAMUEL
PHONE: 847-816-5291
COMPANY: ComEd

TEMPORARY CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑↓

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

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.

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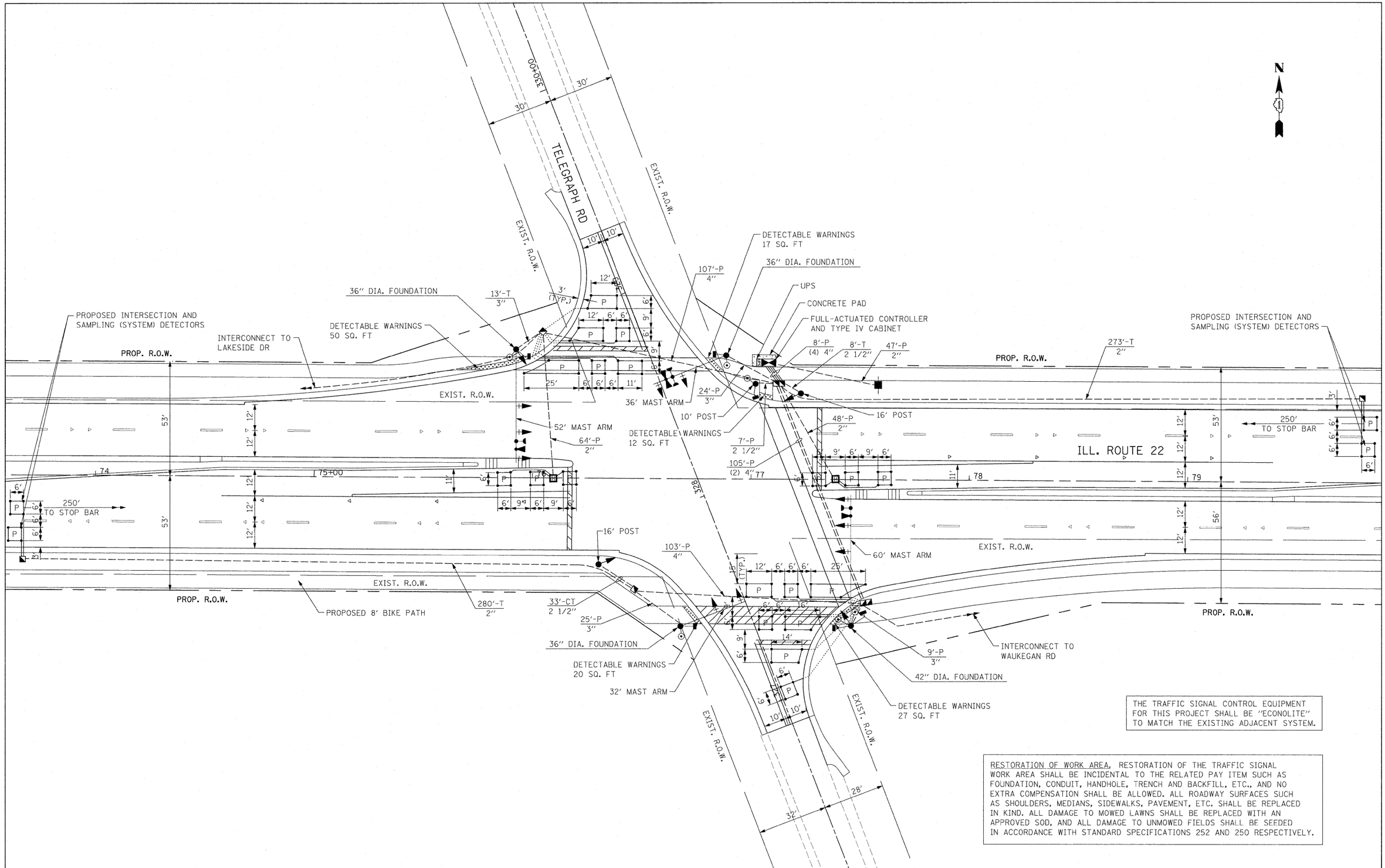
	PLOT SCALE = $SCALE$	CHECKED - JP	REVISED -
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL. ROUTE 22 AND TELEGRAPH ROAD

SCALE: NTS | SHEET NO. 140 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	140
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		



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

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.

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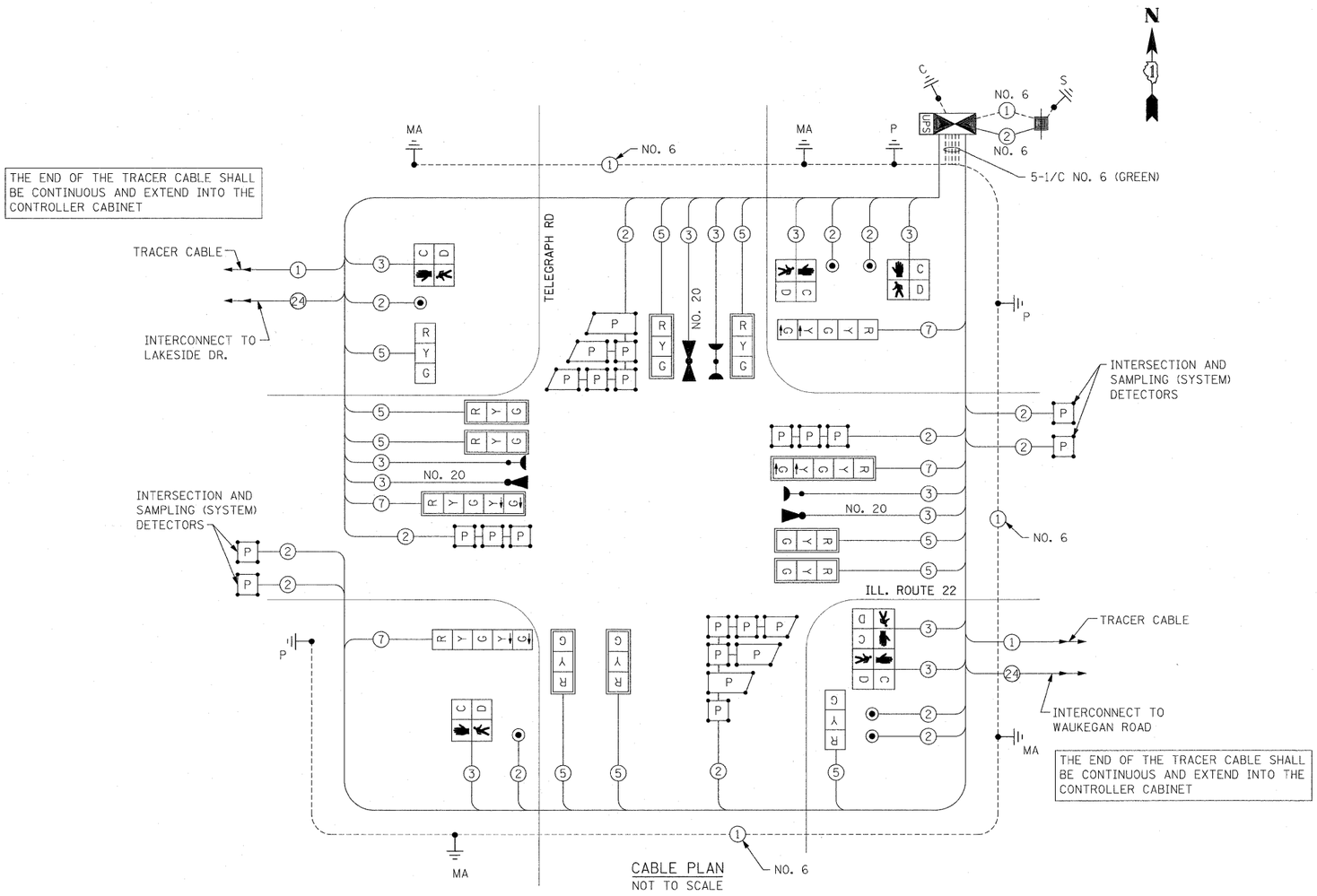
		DRAWN - LP	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - JP	REVISED -
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
IL. ROUTE 22 AND TELEGRAPH ROAD

SCALE: 1"=20' | SHEET NO. 141 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	141
		CONTRACT NO. 60860		
		ILLINOIS	FED. AID PROJECT	



CABLE PLAN
NOT TO SCALE

SCHEDULE OF QUANTITIES

	ITEM	UNIT	QNTY.
	SIGN PANEL - TYPE 1	SQ FT	33
	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	553
	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	41
	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	13
	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	159
	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	7
	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	58
	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	452
	HANDHOLE	EACH	4
	HEAVY-DUTY HANDHOLE	EACH	2
	DOUBLE HANDHOLE	EACH	2
	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	607
	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
	TRANSCEIVER - FIBER OPTIC	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	839
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,426
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,970
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	803
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2,255
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	67
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2
	STEEL MAST ARM ASSEMBLY AND POLE, 32 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 60 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	12
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	37
	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	21
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	10
	INDUCTIVE LOOP DETECTOR	EACH	8
**	LIGHT DETECTOR	EACH	3
**	LIGHT DETECTOR AMPLIFIER	EACH	1
	PEDESTRIAN PUSH-BUTTON	EACH	6
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	8
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
	PREFORMED DETECTOR LOOP	FOOT	1,006
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
	SERVICE INSTALLATION - POLE MOUNTED	EACH	1
	UNINTERRUPTIBLE POWER SUPPLY	EACH	1
	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	562
**	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	545

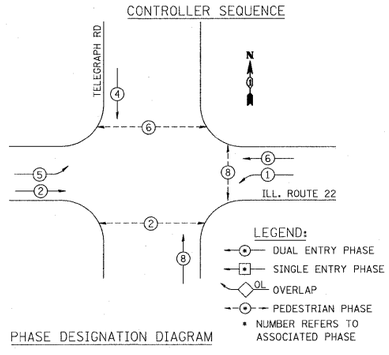
** 100 % COST TO VILLAGE OF BANNOCKBURN

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	X WATTAGE INCAND	X WATTAGE LED	% OPERATION	
SIGNAL (RED)	14		17	0.50	119
(YELLOW)	14		25	0.25	87.5
(GREEN)	14		15	0.25	52.5
ARROW	8		12	0.10	9.6
PED. SIGNAL	6		25	1.00	150
CONTROLLER	1		100	1.00	100
ILLUM. SIGN			25	0.05	
FLASHER			25	0.50	
				TOTAL =	518.6

ENERGY COST TO: Illinois Department of Transportation
Division of Highways / District 1
201 W Center Court / Schaumburg, Illinois 60196-1096

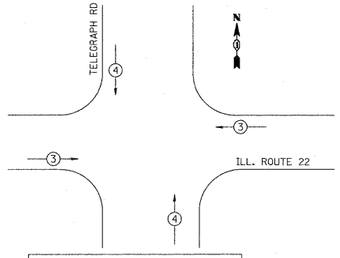
ENERGY SUPPLY: CONTACT: MR. VARUGHESE SAMUEL
PHONE: 847-816-5291
COMPANY: ComEd

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑

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

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.

FILE NAME = W:\ILRTE22\..2009 REVISIONS\CADD Sheets\D1608860-sht-ts-TELCBL.dgn	USER NAME = $USER$	DESIGNED - LP	REVISED -
		DRAWN - LP	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - JP	REVISED -
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES
IL. ROUTE 22 AND TELEGRAPH ROAD

SCALE: NTS | SHEET NO. 142 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	142
		CONTRACT NO. 60860		
		ILLINOIS FED. AID PROJECT		

NOTE:

1. CONDUIT SHALL BE PLACED MINIMUM OF 5'-6" UNDER THE RAILROAD TRACKS.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE SHALL BE 4.5 FEET ABOVE THE MEDIAN ISLAND GRADE OF A CENTER MEDIAN ISLAND AND SHALL BE 8 FEET ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY IF LOCATED ON THE SIDE OF THE ROAD.
3. ELECTRIC CABLE FOR SIGNAL HEAD IN BARREL CONNECTED TO THE SPAN WIRE. CONTRACTOR TO PROVIDE AN EXTRA CABLE TO ALLOW FOR THE MOVEMENT DURING THE VARIOUS CONSTRUCTION STAGES.
4. DUAL LEFT TURN LANES SHALL NOT BE OPENED TO TRAFFIC UNTIL THE PERMANENT TRAFFIC SIGNALS ARE ENERGIZED AND APPROVED FOR OPERATION.

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.

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

N

EXIST. R.O.W.
METRA/UNION PACIFIC NORTH LINE
PROP. R.O.W.
PROP. TEMPORARY EASEMENT (TYP.)
EXIST. R.O.W.
PROP. R.O.W.
ILL. ROUTE 22 (HALF DAY RD.)
SEE NOTE 2
SEE NOTE 3
SEE NOTE 1 AND A DETAIL ON SHEET 173 FOR CONDUIT CROSSING RAILROAD TRACKS
SIGNAL HEAD ON POST IN BARREL SEE SHEET 144 FOR DETAIL
SEE NOTE 3
EXIST. R.O.W.
SEE DETAIL "A"
SEE NOTE 2
40'-T 4"
60'-P 4"
SEE DETAIL "A"
RAILROAD EQUIPMENT TO BE RELOCATED BY OTHER
CONTRACTOR SHALL INSTALL 2" DIA. GALV. STEEL CONDUIT FROM THE TEMPORARY WOOD POLE DIRECTLY TO THE RAILROAD CABINET IN ORDER TO MAINTAIN RAILROAD INTERCONNECT CABLE.
PROP. R.O.W.
ILL. ROUTE 43 (WAUKEGAN RD.)
EXIST. R.O.W.
TEMPORARY INTERCONNECT TO BANNOCKBURN OFFICE PLAZA ENTRANCE

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 PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

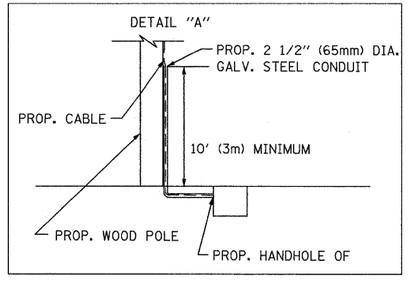
AGENCY: DEERFIELD-BANNOCKBURN CENTRAL FIRE PROTECTION

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.

1	EACH	CONTROLLER AND CABINET (COMPLETE)
5	EACH	TRAFFIC SIGNAL BACKPLATE
10	EACH	SIGNAL HEAD, 1-FACE
5	EACH	MAST ARM ASSEMBLY AND POLE
3	EACH	TRAFFIC SIGNAL POST
4	EACH	FIBER OPTIC SIGN
1	EACH	SERVICE INSTALLATION
2	EACH	SIGNAL HEAD, 3-FACE
1	EACH	SIGNAL HEAD, 2-FACE

DETAIL "A"



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	PLOT SCALE = 20.0000 ' / IN.	CHECKED - JP	REVISED -
	PLOT DATE = 7/28/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
IL. ROUTE 22 (HALF DAY ROAD) AND IL. ROUTE 43 (WAUKEGAN ROAD)

SCALE: 1"=20' | SHEET NO. 143 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	143
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		

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 SUPPLIES 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 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 LED AND 12" (300MM) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATED 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 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.

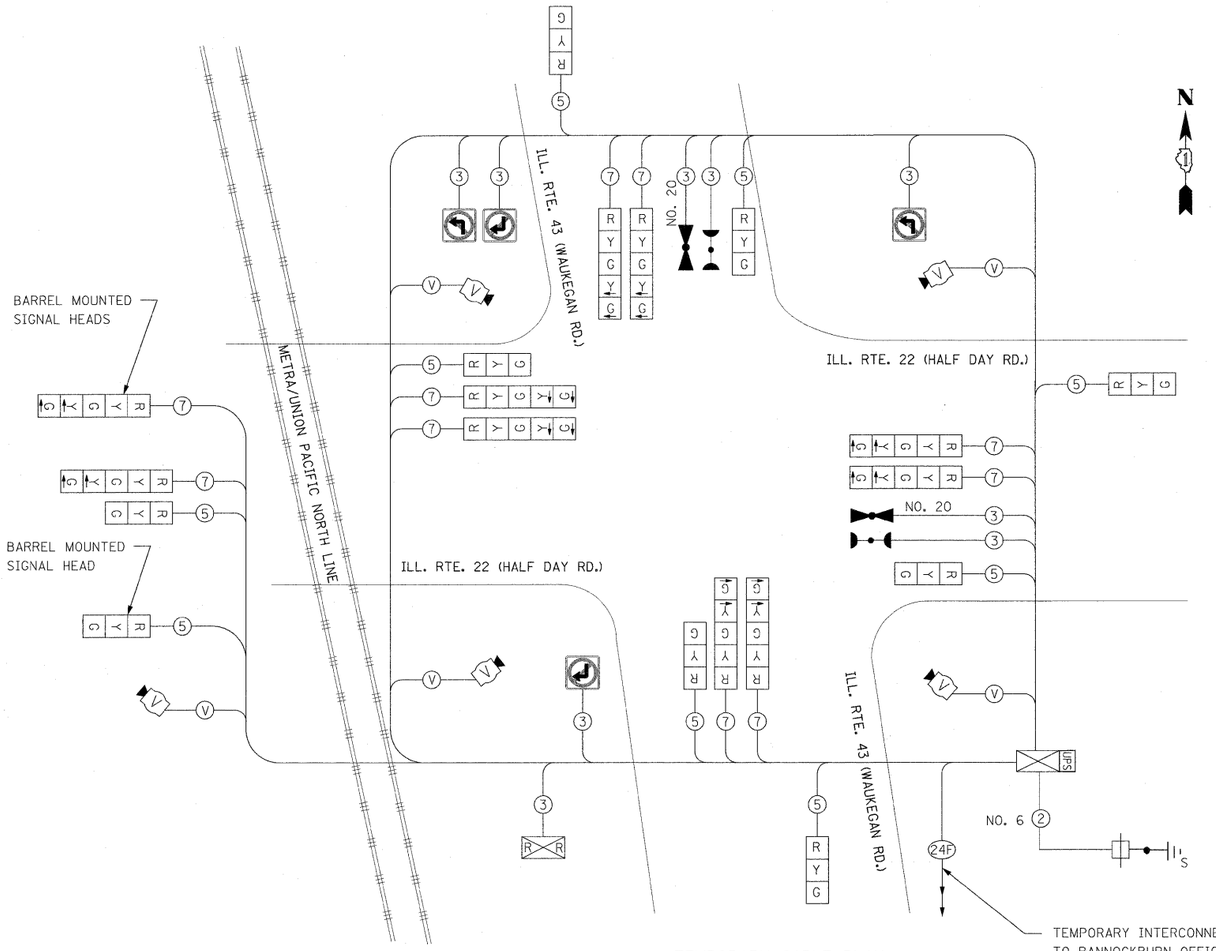
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.

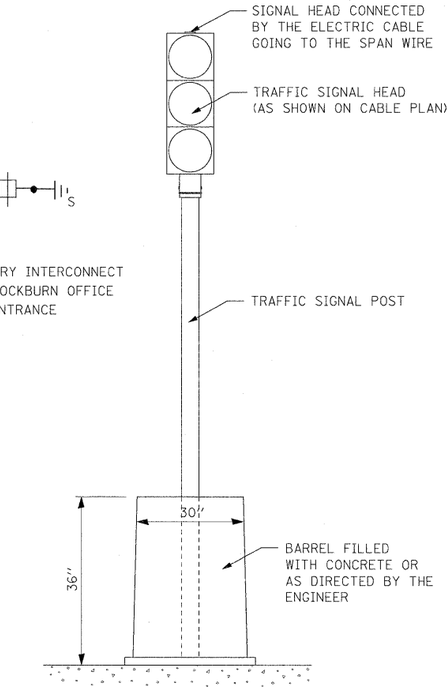
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.

9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.

10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.



TEMPORARY CABLE PLAN
NOT TO SCALE



SIGNAL HEAD ON POST IN BARREL
DETAIL "B"

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	X WATTAGE INCAND	X WATTAGE LED	X % OPERATION	
SIGNAL (RED)	19		17	0.50	161.5
(YELLOW)	19		25	0.25	118.75
(GREEN)	19		15	0.25	71.25
ARROW	20		12	0.10	24
PED. SIGNAL			25	1.00	
CONTROLLER	1		100	1.00	100
ILLUM. SIGN	4		25	0.05	5
VIDEO SYSTEM	1	150		1.00	150
FLASHER				0.50	
				TOTAL =	630.5

ENERGY COST TO: Illinois Department of Transportation
Division of Highways / District 1
201 W Center Court / Schaumburg, Illinois 60196-1096

ENERGY SUPPLY: CONTACT: MR. VARUGHESE SAMUEL
PHONE: 847-816-5291
COMPANY: ComEd

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

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.

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	PLOT SCALE = $SCALE$	CHECKED - JP	REVISED -
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN
IL. ROUTE 22 (HALF DAY ROAD) AND IL. ROUTE 43 (WAUKEGAN ROAD)

SCALE: NTS | SHEET NO. 144 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	144
		CONTRACT NO. 60860		
		ILLINOIS FED. AID PROJECT		

TEMPORARY SEQUENCE OF OPERATION

MOVEMENT		1	2	3	4	5	6	7	8	9	10A	10B	11	12A	12B	12C	13A	13B	13C	14	15	16A	16B	17	18	19A	19B	19C	19D	20A	20B	20C	21	22A	22B	22C	22D	FLASH
PHASE		1 + 5				1 + 6		2 + 5		2 + 6			3 + 7								3 + 8				4 + 7								4 + 8					
INTERVAL		1	2	3	4	5	6	7	8	9	10A	10B	11	12A	12B	12C	13A	13B	13C	14	15	16A	16B	17	18	19A	19B	19C	19D	20A	20B	20C	21	22A	22B	22C	22D	
CHANGE TO			1+6	2+5	2+6		2+6		2+6	3+7 3+8 4+7 4+8				1+5, 1+6 2+5, 2+6 4+8			3+8			4+7		1+5 1+6 2+5 2+6		4+8		1+5 1+6 2+5 2+6				4+8			1+5 1+6 2+5 2+6				
ILL. RTE. 43 NEAR AND FAR RIGHT SPAN WIRE SIGNALS	N/B	R	R	R	R	R	R	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	R	R	R	R	R
ILL. RTE. 43 FAR LEFT AND FAR MIDDLE SPAN WIRE SIGNALS	N/B	R G	R Y	R G	R Y	R	R	G G	G Y	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
ILL. RTE. 43 NEAR AND FAR RIGHT SPAN WIRE SIGNALS	S/B	R	R	R	R	G	G	R	R	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
ILL. RTE. 43 FAR LEFT AND FAR MIDDLE SPAN WIRE SIGNALS	S/B	R G	R G	R Y	R Y	G G	G Y	R	R	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
ILL. RTE. 22 NEAR AND FAR RIGHT SPAN WIRE SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	R	R	R	R	R	R	R	R	G	G	G	Y	R	R
ILL. RTE. 22 FAR LEFT AND FAR MIDDLE SPAN WIRE SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R G	R Y	R	R	R G	R G	R G	R Y	G G	Y	R	G Y	R	R	R	R	R	R	R	R	G	G	G	Y	R	R
ILL. RTE. 22 (BEFORE TRACKS) NEAR RIGHT SIGNAL AND NEAR RIGHT SPAN WIRE SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	G	G	G	G	Y	R	R	R	R
ILL. RTE. 22 (BEFORE TRACKS) NEAR LEFT SIGNAL AND NEAR LEFT SPAN WIRE SIGNAL	E/B	R	R	R	R	R	R	R	R	R	R	R	R G	R Y	R	R	R Y	R	R	R G	R	R	R	R	G G	Y	R	R	R	G Y	G	G	G	Y	R	R	R	R
ILL. RTE. 22 (AFTER TRACKS) FAR RIGHT SPAN WIRE SIGNAL	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	G	G	G	G	G	G	Y	R	R
ILL. RTE. 22 (AFTER TRACKS) FAR LEFT AND FAR MIDDLE SPAN WIRE SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R G	R G	R G	R Y	R G	R G	R Y	R G	R	R	R	R	G G	G G	G G	Y	R	G G	G G	G Y	G	G	G	Y	R	R

NOTE: PHASES 2+6 SHALL BE PLACED ON RECALL

FILE NAME = W:\ILRTE22_2009 REVISIONS\CADD Sheets\D160860-sht-ts-WAUTMCHRTSQ.dgn	USER NAME = $USER$	DESIGNED - LP	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**TEMPORARY SEQUENCE OF OPERATIONS IL. ROUTE 22 AND IL. ROUTE 43 (WAUKEGAN ROAD)**	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - LP	REVISED -			337	20R-4	LAKE	232	145
	PLOT SCALE = $SCALE$	CHECKED - JP	REVISED -						CONTRACT NO. 60860	
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -		SCALE: NTS SHEET NO. 145 OF 232 SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

		1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	1AA	1BB	1CC	1DD	2	3	CLEAR TO NORMAL SEQUENCE
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1	5	5		7	7		9	9		11			15		15	18				18			21				21			
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	1AA	1BB	1CC	1DD	2	3	
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		2 OR 3	2	1D	3	2	1G	3	2	1K	3	1M	1N	2 OR 3	1Q	2	3	1T	1U	1V	2	1X	1Y	3	1AA	1BB	1CC	2	3			
ILL. RTE. 43 NEAR AND FAR RIGHT SPAN WIRE SIGNALS	N/B	R	R	R	R	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◇
ILL. RTE. 43 FAR LEFT AND FAR MIDDLE SPAN WIRE SIGNALS	N/B	R ←Y	R	R	R	G ←Y	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◇
ILL. RTE. 43 NEAR AND FAR RIGHT SPAN WIRE SIGNALS	S/B	R	G	Y	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◇
ILL. RTE. 43 FAR LEFT AND FAR MIDDLE SPAN WIRE SIGNALS	S/B	R ←Y	G ←Y	Y	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◇
ILL. RTE. 22 NEAR AND FAR RIGHT SPAN WIRE SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	G	R	R	R	R	R	R	R	G	G	Y	R	G	R	G	◇
ILL. RTE. 22 FAR LEFT AND FAR MIDDLE SPAN WIRE SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R ←Y	R	R	Y	R	G ←Y	R	R	R	R	R	R	R	G	G	Y	R	G	R	G	◇
ILL. RTE. 22 (BEFORE TRACKS) NEAR RIGHT SIGNAL AND NEAR RIGHT SPAN WIRE SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	G	G	G	Y	R	R	R	G	R	G	◇
ILL. RTE. 22 (BEFORE TRACKS) NEAR LEFT SIGNAL AND NEAR LEFT SPAN WIRE SIGNAL	E/B	R	R	R	R	R	R	R	R	R	R	R ←Y	R	R	R	R	R	Y	R	R	R	G ←Y	G	G	Y	R	R	R	G	R	G	◇
ILL. RTE. 22 (AFTER TRACKS) FAR RIGHT SPAN WIRE SIGNAL	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	G	G	G	G	Y	R	G	R	G	◇
ILL. RTE. 22 (AFTER TRACKS) FAR LEFT AND FAR MIDDLE SPAN WIRE SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R ←G	R ←G	R ←Y	R	R	R	G ←G	G ←G	Y	R	G ←G	G ←G	G ←Y	G	G	Y	R	G	R	G	◇

TEMPORARY RAILROAD PREEMPTION SEQUENCE OF OPERATION

		1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	2	3	4	5	CLEAR TO NORMAL SEQUENCE
																	PREEMPTOR NUMBER 3		PREEMPTOR NUMBER 4		PREEMPTOR NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1	5		7		9		11		15		18		21										
CHANGE FROM EVP SEQUENCE OF OPERATION INTERVAL NUMBER																	2		3						
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	2	3	4	5	
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		2	1C	2	1E	2	1G	2	1J	2	1L	2	1N	2	1Q	2	1S	2	1U	2	3	4	5		
ILL. RTE. 43 NEAR AND FAR RIGHT SPAN WIRE SIGNALS	N/B	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	G	△
ILL. RTE. 43 FAR LEFT AND FAR MIDDLE SPAN WIRE SIGNALS	N/B	R ←Y	R	R	Y	R	Y	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	G	△
ILL. RTE. 43 NEAR AND FAR RIGHT SPAN WIRE SIGNALS	S/B	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	G	△
ILL. RTE. 43 FAR LEFT AND FAR MIDDLE SPAN WIRE SIGNALS	S/B	R ←Y	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	G	△
ILL. RTE. 22 NEAR AND FAR RIGHT SPAN WIRE SIGNALS	W/B	R	R	R	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	Y	R	R	R	R	R	△
ILL. RTE. 22 FAR LEFT AND FAR MIDDLE SPAN WIRE SIGNALS	W/B	R	R	R	R	R	R	R	R ←Y	R	Y	R	R	R	Y	R	R	R	Y	R	R	R	R	R	△
ILL. RTE. 22 (BEFORE TRACKS) NEAR RIGHT SIGNAL AND NEAR RIGHT SPAN WIRE SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	Y	R	Y	R	R	R	Y	R	R	R	R	R	△
ILL. RTE. 22 (BEFORE TRACKS) NEAR LEFT SIGNAL AND NEAR LEFT SPAN WIRE SIGNAL	E/B	R	R	R	R	R	R	R	R ←Y	R	R	R	Y	R	Y	R	R	R	Y	R	R	R	R	R	△
ILL. RTE. 22 (AFTER TRACKS) FAR RIGHT SPAN WIRE SIGNAL	E/B	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	R	R	G	G	G	Y	R	R	△
ILL. RTE. 22 (AFTER TRACKS) FAR LEFT AND FAR MIDDLE SPAN WIRE SIGNALS	E/B	R	R	R	R	R	R	R	R ←G	R ←G	R	R	G ←G	G ←G	G	G	R	R	G	G	G ←G	Y	R	R	△
INTERNALLY ILLUMINATED NRT SIGNS		NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	△
INTERNALLY ILLUMINATED NLT SIGNS		NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	△
																								HOLD	

◇ EMERGENCY VEHICLE PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2 OR 3 IS TERMINATED.

△ 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.

NRT = "NO RIGHT TURN" OR

NLT = "NO LEFT TURN" OR

FILE NAME = W:\ILRTE22_2009 REVISIONS\CADD Sheets\revised sheets\0160860-sht-ts-WAUTMRRSQ.dgn	USER NAME = pociecha	DESIGNED - LP	REVISED - 07/26/2010
	PLOT SCALE = 20.0000 '/ IN.	DRAWN - LP	REVISED -
		CHECKED - JP	REVISED -
	PLOT DATE = 7/28/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

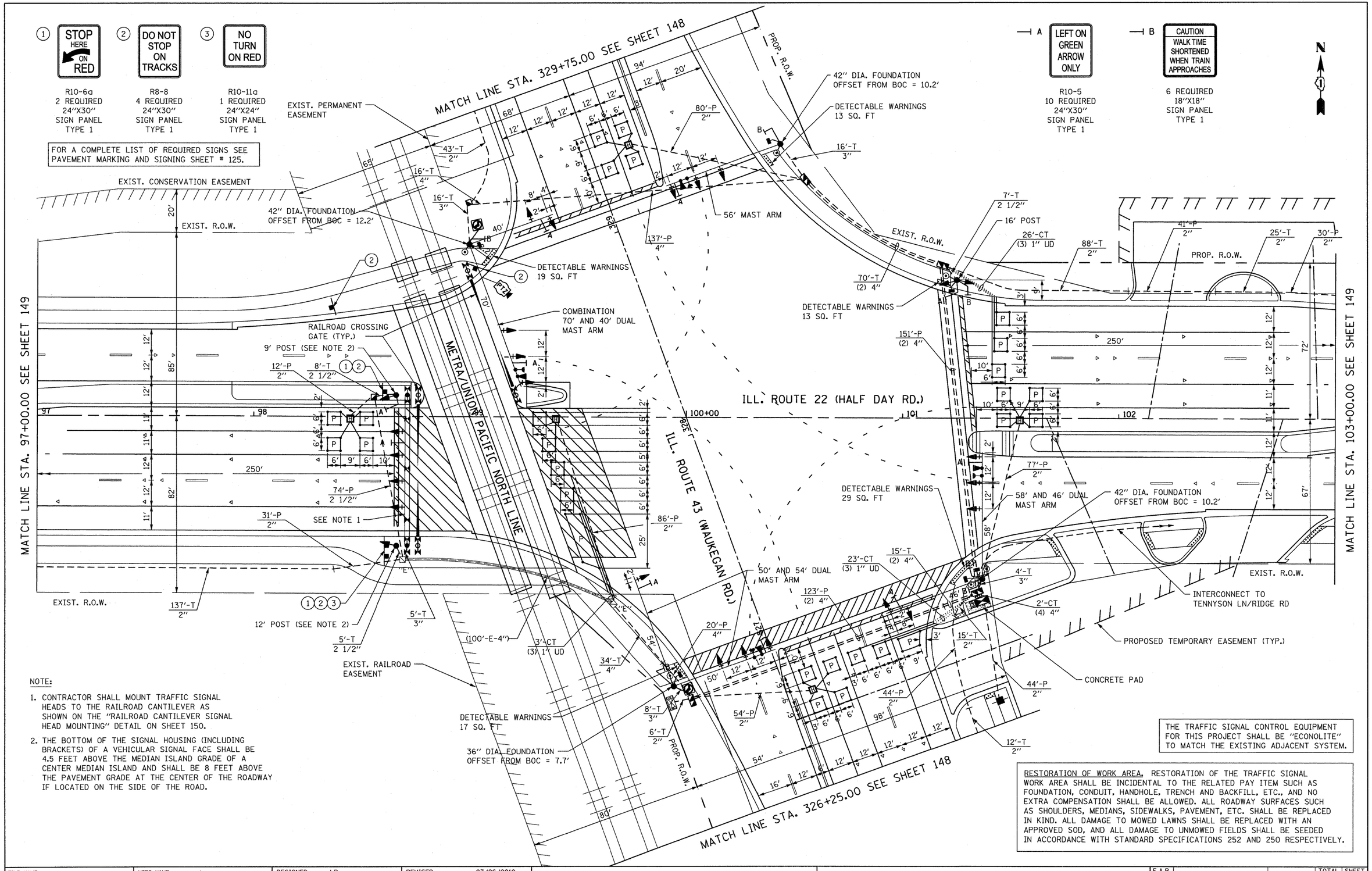
TEMPORARY EMERGENCY VEHICLE AND RAILROAD PREEMPTION SEQUENCE OF OPERATION
IL ROUTE 22 AND IL ROUTE 43 (WAUKEGAN ROAD)

SCALE: NTS | SHEET NO. 146 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	146

CONTRACT NO. 60860

ILLINOIS | FED. AID PROJECT



NOTE:

1. CONTRACTOR SHALL MOUNT TRAFFIC SIGNAL HEADS TO THE RAILROAD CANTILEVER AS SHOWN ON THE "RAILROAD CANTILEVER SIGNAL HEAD MOUNTING" DETAIL ON SHEET 150.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE SHALL BE 4.5 FEET ABOVE THE MEDIAN ISLAND GRADE OF A CENTER MEDIAN ISLAND AND SHALL BE 8 FEET ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY IF LOCATED ON THE SIDE OF THE ROAD.

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

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.

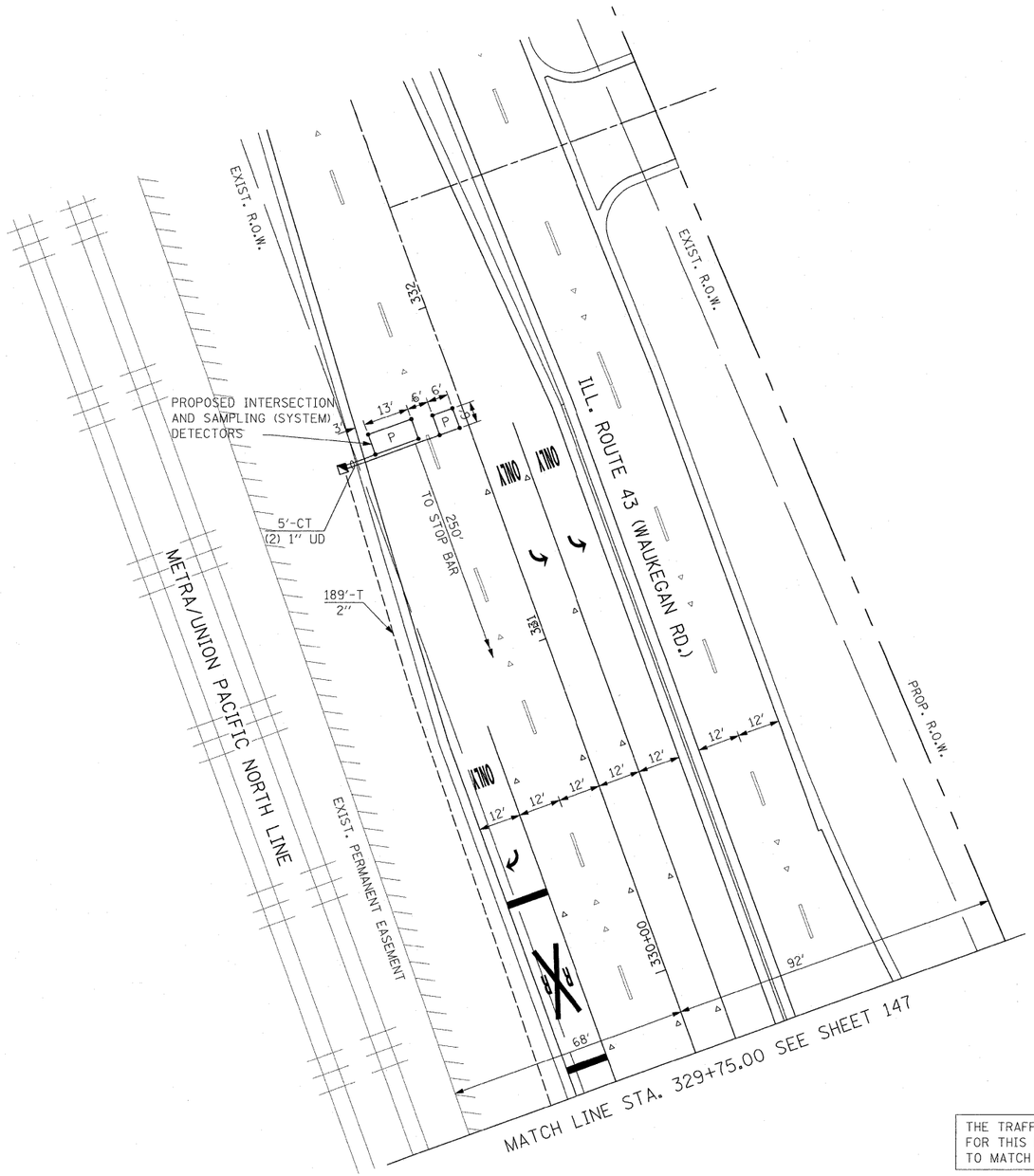
FILE NAME = W:\ILRTE22_2009 REVISIONS\CADD Sheets\revised sheets\D1602602-sht-ts-WAUPLN.dgn	USER NAME = pociecha	DESIGNED - LP	REVISED - 07/26/2010
	PLOT SCALE = 20.0000 ' / IN.	DRAWN - LP	REVISED - 07/27/2010
	PLOT DATE = 7/28/2010	CHECKED - JP	REVISED -
		DATE - 05/14/2010	REVISED -

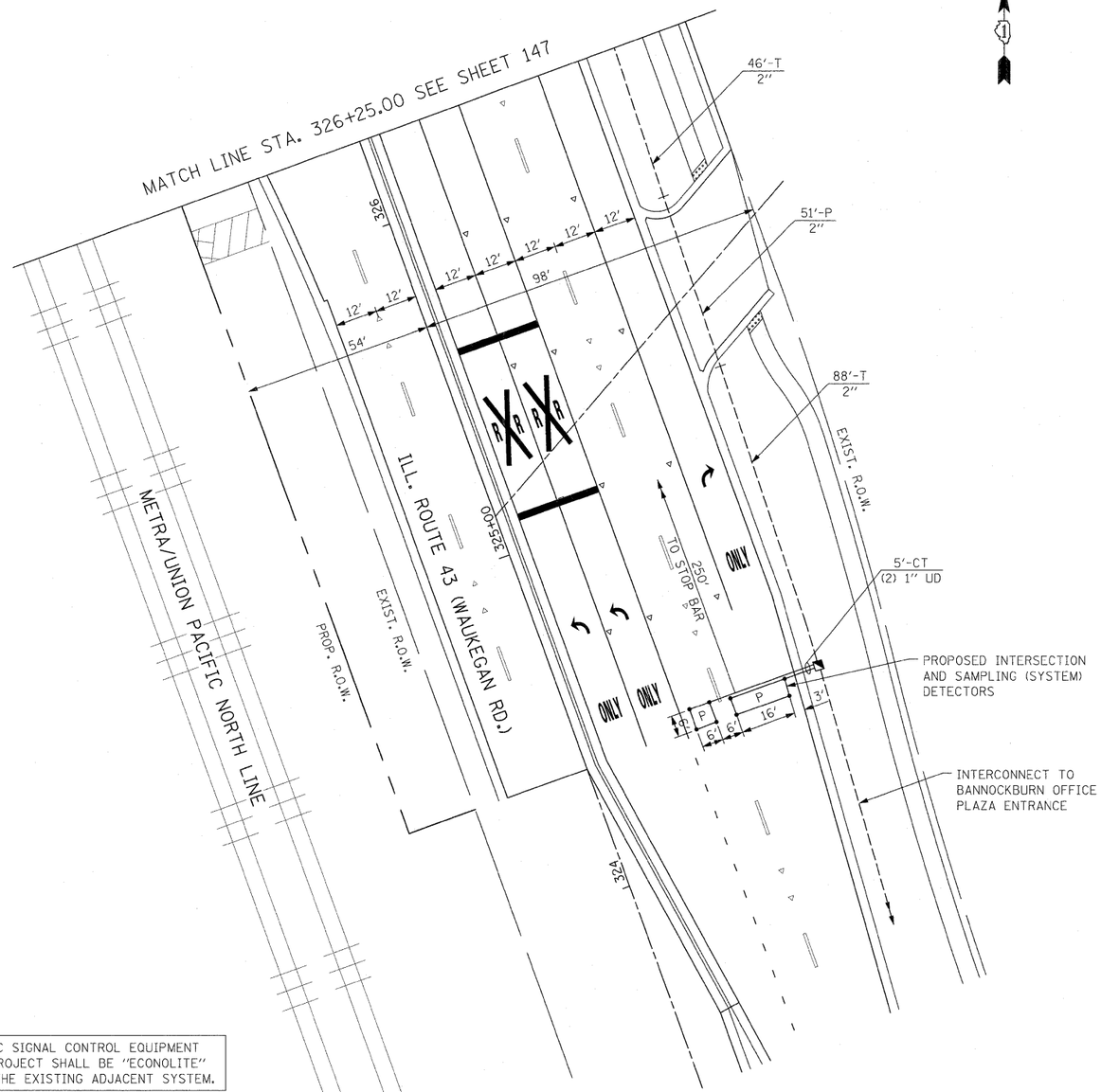
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
IL. ROUTE 22 (HALF DAY ROAD) AND IL. ROUTE 43 (WAUKEGAN ROAD)

SCALE: 1"=20' | SHEET NO. 147 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	147
		CONTRACT NO. 60860		
	ILLINOIS FED. AID PROJECT			





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

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.

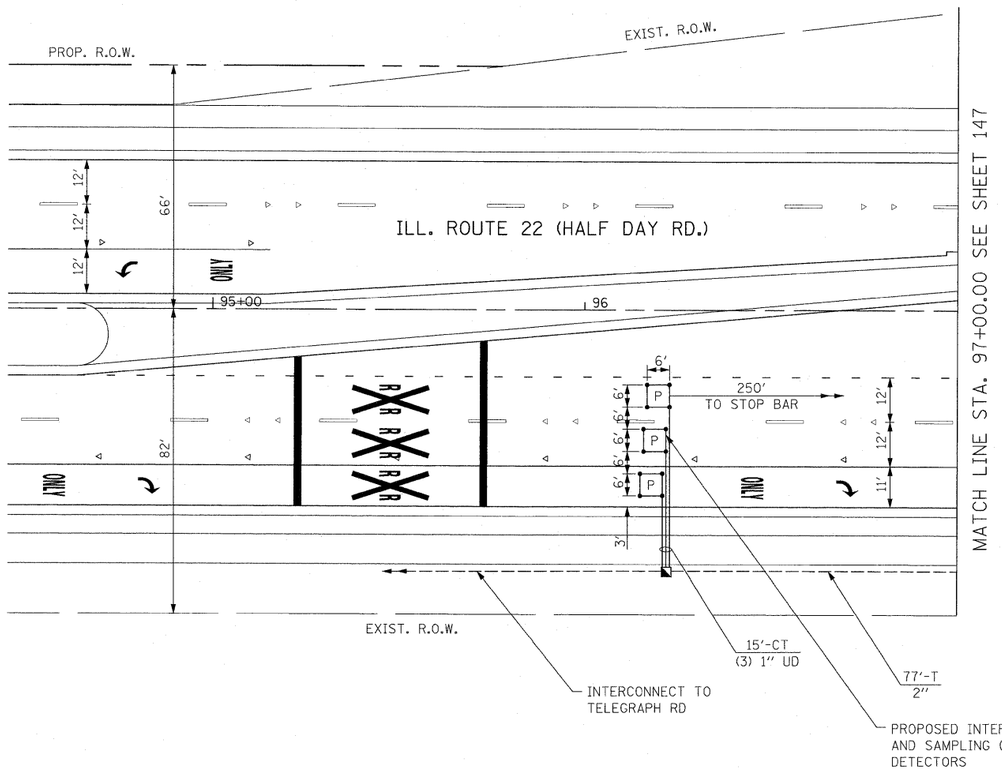
FILE NAME = W:\ILRTE22_2009 REVISIONS\CADD Sheets\D160860-sht-ts-WAUPLN1.dgn	USER NAME = $USER$	DESIGNED - LP	REVISED -
		DRAWN - LP	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - JP	REVISED -
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

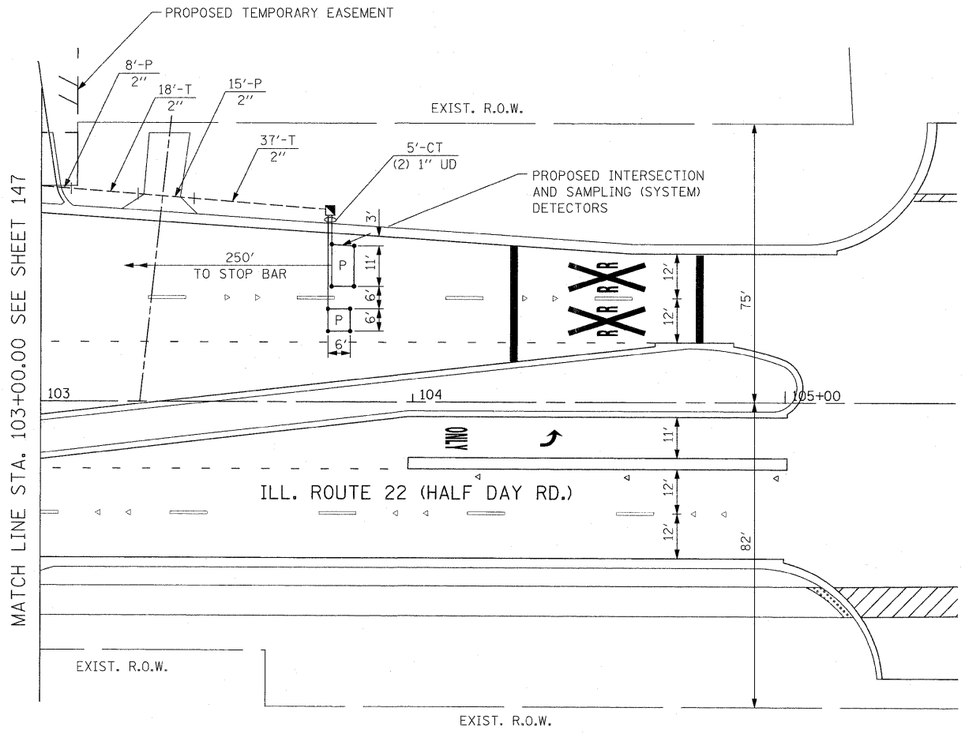
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
IL. ROUTE 22 (HALF DAY ROAD) AND IL. ROUTE 43 (WAUKEGAN ROAD)

SCALE: 1"=20' | SHEET NO. 148 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	148
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		





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

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.

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	PLOT SCALE = $SCALE$	CHECKED - JP	REVISED -
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
IL. ROUTE 22 (HALF DAY ROAD) AND IL. ROUTE 43 (WAUKEGAN ROAD)

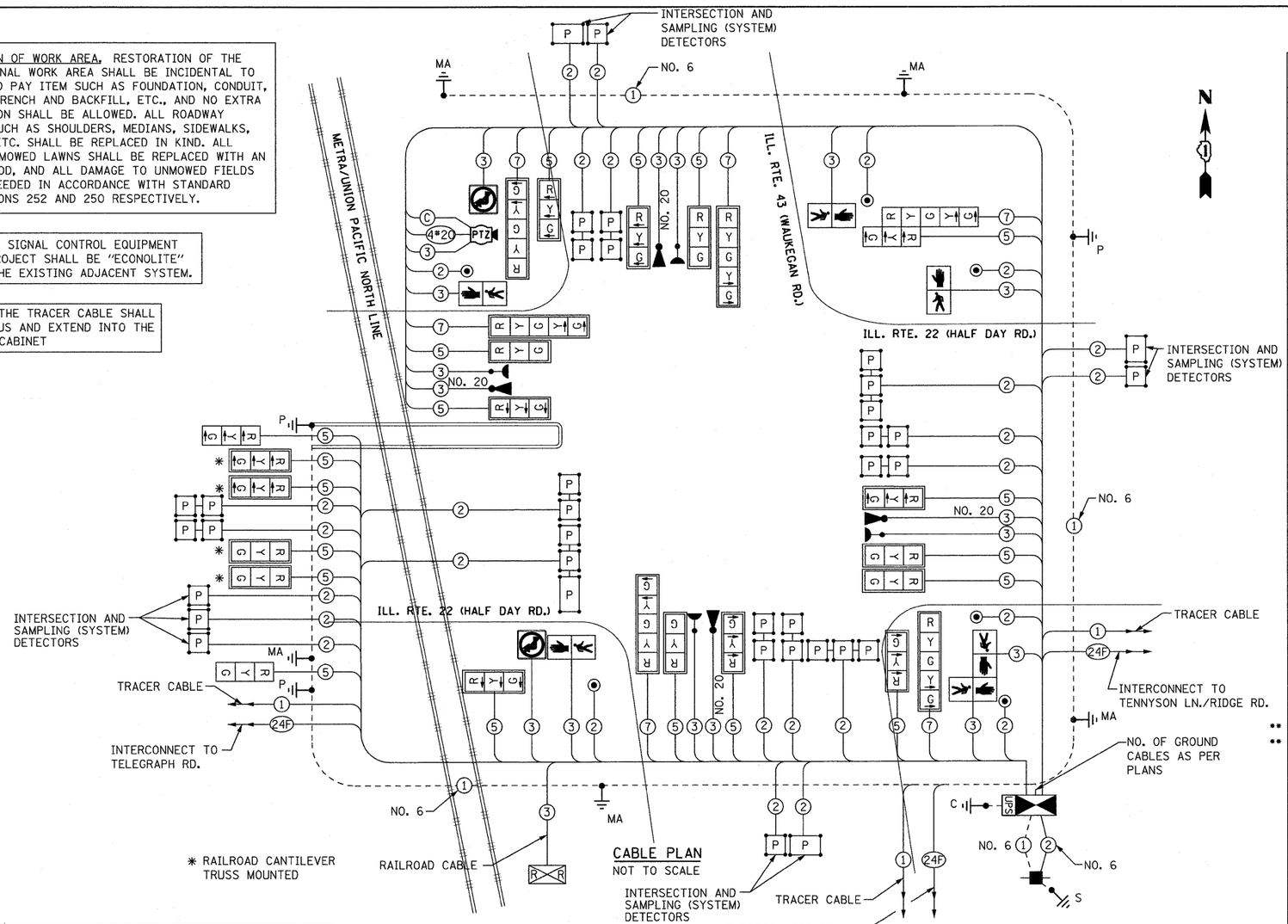
SCALE: 1"=20' | SHEET NO. 149 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	149
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		

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.

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

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET



CABLE PLAN
NOT TO SCALE

SCHEDULE OF QUANTITIES

ITEM	UNIT	QNTY.
SIGN PANEL - TYPE 1	SQ FT	78.5
SIGN PANEL - TYPE 2	SQ FT	30.0
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	781
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	20
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	49
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	268
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	573
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	74
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	765
REMOVE EXISTING JUNCTION BOX	EACH	2
HANDHOLE	EACH	8
HEAVY-DUTY HANDHOLE	EACH	5
DOUBLE HANDHOLE	EACH	4
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1,118
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,207
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	3,664
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	5,489
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,862
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	7,682
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	64
TRAFFIC SIGNAL POST, GALVANIZED STEEL 9 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 56 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 54 FT. AND 50 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 58 FT. AND 46 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 70 FT. AND 40 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	16
CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	69
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	16
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	21
INDUCTIVE LOOP DETECTOR	EACH	21
** LIGHT DETECTOR	EACH	4
** LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	6
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
ILLUMINATED SIGN, LED	EACH	2
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	15
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
PREFORMED DETECTOR LOOP	FOOT	1,647
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE V CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1,136
ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C	FOOT	181
** ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	1,231
RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1
ELECTRIC CABLE IN CONDUIT, COAXIAL	FOOT	528
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
VIDEO ENCODER	EACH	1
ELECTRIC CABLE IN CONDUIT, 4/C #20, VIDEO	FOOT	528

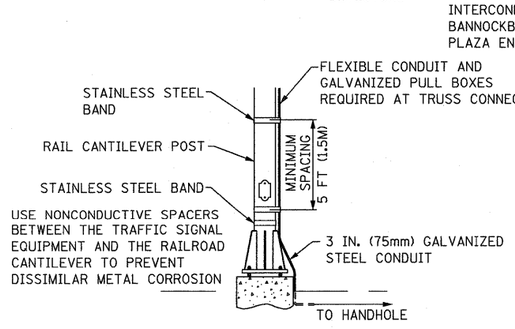
** 100 % COST TO VILLAGE OF BANNOCKBURN

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

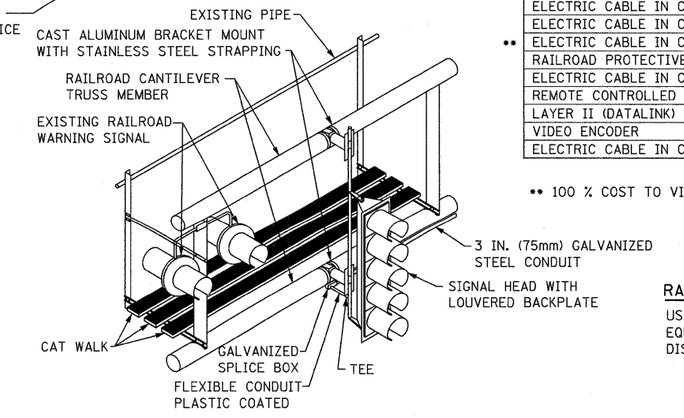
TYPE	NO. LAMPS	WATTAGE INCAND	WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	25		17	0.50	212.5
(YELLOW)	25		25	0.25	156.25
(GREEN)	25		15	0.25	93.75
ARROW	12		12	0.10	14.4
PED. SIGNAL	6		25	1.00	150
CONTROLLER	1		100	1.00	100
ILLUM. SIGN	2		25	0.05	2.5
FLASHER				0.50	
				TOTAL =	729.4

ENERGY COST TO: Illinois Department of Transportation
Division of Highways / District 1
201 W Center Court / Schaumburg, Illinois 60196-1096

ENERGY SUPPLY: CONTACT: MR. VARUGHESE SAMUEL
PHONE: 847-816-5291
COMPANY: ComEd



SIGNAL CONDUIT CONNECTION TO RAIL CANTILEVER DETAIL
N.T.S.



RAILROAD CANTILEVER SIGNAL HEAD MOUNTING

USE NONCONDUCTIVE SPACERS BETWEEN THE TRAFFIC SIGNAL EQUIPMENT AND THE RAILROAD CANTILEVER TO PREVENT DISSIMILAR METAL CORROSION

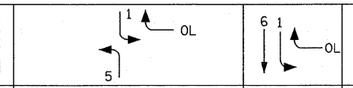
FILE NAME = W:\ILRTE22\..2009 REVISIONS\CADD Sheets\	USER NAME = pociecha	DESIGNED - LP	REVISED - 07/26/2010
	revised sheets\D1602602-sht-ts-WAUCBL.dgn	DRAWN - LP	REVISED - 07/27/2010
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - JP	REVISED -
	PLOT DATE = 7/28/2010	DATE - 05/14/2010	REVISED -

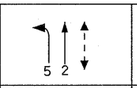
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

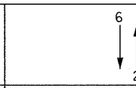
CABLE PLAN AND SCHEDULE OF QUANTITIES
IL. ROUTE 22 (HALF DAY ROAD) AND IL. ROUTE 43 (WAUKEGAN ROAD)

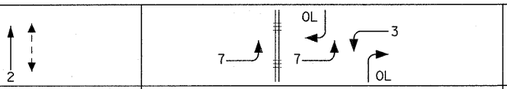
SCALE: NTS | SHEET NO. 150 OF 232 SHEETS | STA. | TO STA.

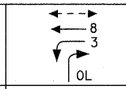
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	150
		CONTRACT NO. 60860		
		ILLINOIS FED. AID PROJECT		

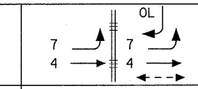


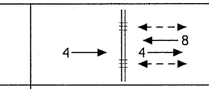












SEQUENCE OF OPERATION

MOVEMENT		1	2A	2B	3A	3B	4A	4B	5	6A	6B	7	8	9A	9B	10	11	12A	12B	13A	13B	14A	14B
MOVEMENT	N																						
PHASE		1+5							1+6			2+5				2+6							
INTERVAL		1	2A	2B	3A	3B	4A	4B	5	6A	6B	7	8	9A	9B	10	11	12A	12B	13A	13B	14A	14B
CHANGE TO		/	1+6		2+5		2+6		/	2+6		/⊖	/⊖	2+6		/	/	1+5 3+7, 3+8 4+7, 4+8		1+6		2+5	
ILL. RTE. 43, NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	G	Y	R	Y	R	G	G
ILL. RTE. 43, MID MAST ARM SIGNAL	N/B	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	G	Y	R	Y	R	G	G
ILL. RTE. 43, FAR LEFT AND END MAST ARM SIGNALS	N/B	G←	Y←	R←	G←	G←	Y←	R←	R←	R←	R←	G←	G←	Y←	R←	R←	R←	R←	R←	R←	R←	R←	R←
ILL. RTE. 43, NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	S/B	R	R	R	R	R	R	R	G	G	G	R	R	R	R	G	G	Y	R	G	G	Y	R
ILL. RTE. 43, MID MAST ARM SIGNAL	S/B	R	R	R	R	R	R	R	G	G	G	R	R	R	R	G	G	Y	R	G	G	Y	R
ILL. RTE. 43, FAR LEFT AND END MAST ARM SIGNALS	S/B	G←	G←	G←	Y←	R←	Y←	R←	G←	Y←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←
ILL. RTE. 22 (BEFORE TRACKS) NEAR RIGHT AND TWO NEAR RIGHT MAST ARM SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 22 (BEFORE TRACKS) NEAR LEFT AND TWO NEAR LEFT MAST ARM SIGNALS	E/B	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←
ILL. RTE. 22 (AFTER TRACKS) FAR RIGHT AND MID MAST ARM SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 22 (AFTER TRACKS) FAR LEFT AND END MAST ARM SIGNALS	E/B	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←
ILL. RTE. 22, NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	W/B	R G→	R G→	R G→	R Y→	R	R Y→	R	R G→	R Y→	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 22, MID MAST ARM SIGNAL	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 22, FAR LEFT AND END MAST ARM SIGNALS	W/B	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, ILL. RTE. 43 ON SOUTH SIDE OF ILL. RTE. 22		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, ILL. RTE. 43 ON NORTH SIDE OF ILL. RTE. 22		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, ILL. RTE. 22 ON EAST SIDE OF ILL. RTE. 43		H	H	H	H	H	H	H	H	H	H	*P	**FH	H	H	*P	**FH	H	H	H	H	H	H

MOVEMENT		15	16A	16B	16C	16D	17A	17B	18A	18B	18C	18D	19	20	21A	21B	22	23	24A	24B	24C	24D	25	26	27A	27B	27C	27D	FLASH
MOVEMENT	N																												FLASH
PHASE		3+7											3+8				4+7						4+8						
INTERVAL		15	16A	16B	16C	16D	17A	17B	18A	18B	18C	18D	19	20	21A	21B	22	23	24A	24B	24C	24D	25	26	27A	27B	27C	27D	
CHANGE TO		/	3+8				4+7		4+8				/⊖	/⊖	4+8		/⊖	/⊖	4+8				/	/	1+5, 1+6 2+5, 2+6				
ILL. RTE. 43, NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	N/B	R G→	R G→	R G→	R G→	R G→	R Y→	R	R G→	R G→	R Y→	R	R G→	R G→	R Y→	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 43, MID MAST ARM 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	R	R	R	R
ILL. RTE. 43, FAR LEFT AND END MAST ARM 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←	R←	R←	R←
ILL. RTE. 43, NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	S/B	R G→	R G→	R G→	R Y→	R	R G→	R G→	R G→	R G→	R Y→	R	R	R	R	R	R G→	R G→	R G→	R G→	R Y→	R	R	R	R	R	R	R	R
ILL. RTE. 43, MID MAST ARM 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
ILL. RTE. 43, FAR LEFT AND END MAST ARM 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←
ILL. RTE. 22 (BEFORE TRACKS) NEAR RIGHT AND TWO NEAR RIGHT MAST ARM SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	G	G	G	Y	R	R	R	R
ILL. RTE. 22 (BEFORE TRACKS) NEAR LEFT AND TWO NEAR LEFT MAST ARM SIGNALS	E/B	G←	Y←	R←	R←	R←	G←	G←	Y←	R←	R←	R←	R←	R←	R←	R←	G←	G←	Y←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←
ILL. RTE. 22 (AFTER TRACKS) FAR RIGHT AND MID MAST ARM SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	G	G	G	G	G	Y	R	R
ILL. RTE. 22 (AFTER TRACKS) FAR LEFT AND END MAST ARM SIGNALS	E/B	G←	G←	G←	Y←	R←	G←	G←	G←	G←	Y←	R←	R←	R←	R←	R←	G←	G←	G←	G←	Y←	R←	R←	R←	R←	R←	R←	R←	R←
ILL. RTE. 22, NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	R	R	R	R	R	R	G	G	G	G	Y	R	R
ILL. RTE. 22, MID MAST ARM SIGNAL	W/B	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	R	R	R	R	R	R	G	G	G	G	Y	R	R
ILL. RTE. 22, FAR LEFT AND END MAST ARM SIGNALS	W/B	G←	G←	G←	G←	G←	Y←	R←	G←	G←	Y←	R←	G←	G←	Y←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←
PEDESTRIAN SIGNALS CROSSING, ILL. RTE. 43 ON SOUTH SIDE OF ILL. RTE. 22		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	*P	**FH	H	H	H	H	*P	**FH	H	H	H	H	DARK
PEDESTRIAN SIGNALS CROSSING, ILL. RTE. 43 ON NORTH SIDE OF ILL. RTE. 22		H	H	H	H	H	H	H	H	H	H	H	*P	**FH	H	H	H	H	H	H	H	H	*P	**FH	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING, ILL. RTE. 22 ON EAST SIDE OF ILL. RTE. 43		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	

* TO APPEAR ONLY UPON PUSHBUTTON ACTIVATION

** FLASHING "✋" IS TO TERMINATE AT THE COMPLETION OF
THE PEDESTRIAN INTERVAL CLEARENCE

⊖ THIS "🚶" OR FLASHING "✋" INTERVAL MAY FINISH TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "🚶" OR FLASHING "✋" INTERVALS.

"🚶" AND FLASHING "✋" TIMINGS TO BE SET ONLY ON PHASES WHERE "🚶" AND FLASHING "✋" ARE INDICATED IN THE SEQUENCE OF OPERATION.

P = ILLUMINATED PERSON = "WALK"

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

PHASE 2+6 SHALL BE PLACED ON RECALL

FILE NAME = W:\ILRTE22_2009 REVISIONS\CADD Sheets\	USER NAME = pociecha	DESIGNED - LP	REVISED - 07/26/2010
	revised sheets\D160860-sht-ts-WAUCHRTSQ.dgn	DRAWN - LP	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - JP	REVISED -
	PLOT DATE = 7/28/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SEQUENCE OF OPERATIONS
IL. ROUTE 22 AND IL. ROUTE 43 (WAUKEGAN ROAD)

SCALE: NTS | SHEET NO. 151 OF 232 SHEETS | STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	151

CONTRACT NO. 60860

ILLINOIS FED. AID PROJECT

RAILROAD PREEMPTION SEQUENCE OF OPERATION

																PREEMPTOR NUMBER 3		PREEMPTOR NUMBER 4		PREEMPTOR NUMBER 5		PREEMPTOR NUMBER 6		PREEMPTOR NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1		5		7		10		15		19		22		25														
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER																	2		3		4		5						
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	2	3	4	5	CLEAR TO NORMAL SEQUENCE
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1B	2	1D	2	1F	2	1H	2	1K	2	1M	2	1P	2	1R	2	1T	2	1V	2	1X	2	1Z	2	3	4	5		
ILL. RTE. 43, NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	N/B	R	R	R	R	Y	R	Y	R	R→Y	R	R→Y	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	G	△
ILL. RTE. 43, MID MAST ARM SIGNAL	N/B	R	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	G	△
ILL. RTE. 43, FAR LEFT AND END MAST ARM SIGNALS	N/B	Y←	R←	R←	R←	Y←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	Y←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	△
ILL. RTE. 43, NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	S/B	R	R	Y	R	R	R	Y	R	R→Y	R	R	R	R→Y	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	G	△
ILL. RTE. 43, MID MAST ARM SIGNAL	S/B	R	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	G	△
ILL. RTE. 43, FAR LEFT AND END MAST ARM SIGNALS	S/B	Y←	R←	Y←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	Y←	R←	R←	R←	R←	R←	R←	R←	△
ILL. RTE. 22 (BEFORE TRACKS) NEAR RIGHT AND TWO NEAR RIGHT MAST ARM SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	△
ILL. RTE. 22 (BEFORE TRACKS) NEAR LEFT AND TWO NEAR LEFT MAST ARM SIGNALS	E/B	R←	R←	R←	R←	R←	R←	R←	R←	Y←	R←	R←	R←	Y←	R←	R←	R←	R←	R←	Y←	R←	R←	R←	R←	R←	R←	R←	R←	R←	△
ILL. RTE. 22 (AFTER TRACKS) FAR RIGHT AND MID MAST ARM SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	R	R	G	G	R	R	R	R	G	Y	R	R	△
ILL. RTE. 22 (AFTER TRACKS) FAR LEFT AND END MAST ARM SIGNALS	E/B	R←	R←	R←	R←	R←	R←	R←	R←	G	G	R←	R←	G	G	R←	R←	R←	R←	G	G	R←	R←	R←	R←	G	Y	R	R	△
ILL. RTE. 22, NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	W/B	R→Y	R	R→Y	R	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	R	R	R	R	Y	R	R	R	R	R	△
ILL. RTE. 22, MID MAST ARM SIGNAL	W/B	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	R	R	R	R	Y	R	R	R	R	R	△
ILL. RTE. 22, FAR LEFT AND END MAST ARM SIGNALS	W/B	R←	R←	R←	R←	R←	R←	R←	R←	Y←	R←	Y←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	R←	Y←	R←	R←	R←	R←	R←	△
PEDESTRIAN SIGNALS CROSSING, ILL. RTE. 43 ON SOUTH SIDE OF ILL. RTE. 22		H	H	H	H	H	H	H	H	H	H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING, ILL. RTE. 43 ON NORTH SIDE OF ILL. RTE. 22		H	H	H	H	H	H	H	H	H	H	FH	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING, ILL. RTE. 22 ON EAST SIDE OF ILL. RTE. 43		H	H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
ILL. RTE. 43, ILLUMINATED NO RIGHT TURN SIGNS		NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	△
																													HOLD	

△ 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.

NRT = "NO RIGHT TURN" OR 

NLT = "NO LEFT TURN" OR 

P = ILLUMINATED PERSON = "WALK"

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

FILE NAME = W:\ILRTE22_2009 REVISIONS\CADD Sheets\	USER NAME = pociecha	DESIGNED - LP	REVISED - 07/26/2010	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RAILROAD PREEMPTION SEQUENCE OF OPERATIONS IL. ROUTE 22 AND IL. ROUTE 43 (WAUKEGAN ROAD)
	revised sheets\D162060-sht-ts-WAURRSQ.dgn	DRAWN - LP	REVISED -		
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - JP	REVISED -		SCALE: NTS SHEET NO. 152 OF 232 SHEETS STA. TO STA.
	PLOT DATE = 7/28/2010	DATE - 05/14/2010	REVISED -		

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	152
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1		1		1		5		5	7	7			10			10			10			15				15		15				19			19		22					22	
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	1AA	1BB	1CC	1DD	1EE	1FF	1GG	1HH	1JJ	1KK	1LL	1MM	1NN	1PP	1QQ	1RR	1SS	1TT	1UU	1VV
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1B	2	1D	3 OR 5	1F	4	1H	2, 3 OR 5	4	2	1M	1N	3, 4 OR 5	1Q	1R	2	1T	1U	3 OR 5	1W	1X	4	1Z	1AA	1BB	2 OR 4	1DD	3	1FF	1GG	1HH	5	1KK	1LL	2, 3 OR 4	1NN	5	1QQ	1RR	1SS	1TT	2, 4 OR 5	1VV	3
ILL. RTE. 43, NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	N/B	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	G	G	G	Y	R	G	Y	R	R/G	R/G	R/Y	R	R/Y	R	R/G	R/G	R/Y	R	R/G	R/Y	R	R/G	R/Y	R	R	R	R	R	R	R
ILL. RTE. 43, MID MAST ARM SIGNAL	N/B	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	G	G	G	Y	R	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
ILL. RTE. 43, FAR LEFT AND END MAST ARM SIGNALS	N/B	G	G	Y	R	Y	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	R	R
ILL. RTE. 43, NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	S/B	R	R	R	R	R	R	Y	R	G	R	R	R	R	G	Y	R	G	Y	R	G	G	G	R/G	R/G	R/Y	R	R/Y	R	R/G	R/G	R/Y	R	R	R	R	R	R	R/G	R/G	R/G	R/Y	R	R/G	R/Y
ILL. RTE. 43, MID MAST ARM SIGNAL	S/B	R	R	R	R	R	R	Y	R	G	R	R	R	R	G	Y	R	G	Y	R	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 43, FAR LEFT AND END MAST ARM SIGNALS	S/B	Y	R	Y	R	G	G	Y	R	G	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
ILL. RTE. 22 (BEFORE TRACKS) NEAR RIGHT AND TWO NEAR RIGHT MAST ARM SIGNALS	E/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	G	Y	R	R	R	G	G
ILL. RTE. 22 (BEFORE TRACKS) NEAR LEFT AND TWO NEAR LEFT MAST ARM SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	G	G	Y	R	R	R	R	R	R	G	Y	R	R	R	G	G
ILL. RTE. 22 (AFTER TRACKS) FAR RIGHT AND MID MAST ARM SIGNALS	E/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	G	G	G	Y	R	G	G
ILL. RTE. 22 (AFTER TRACKS) FAR LEFT AND END MAST ARM SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	G	G	G	Y	R	R	R	R	R	G	G	G	Y	R	G	G
ILL. RTE. 22, NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS	W/B	R/Y	R	R/Y	R	R/Y	R	R/Y	R	R/Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	R	R	R	R	R	R	R
ILL. RTE. 22, MID MAST ARM SIGNAL	W/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	G	Y	R	G	G	R	R	R	R	R	R	R	R
ILL. RTE. 22, FAR LEFT AND END MAST ARM SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	Y	R	G	G	G	G	G	Y	R	G	G	R	R	R	R	R	R	R	R
PEDESTRIAN SIGNALS CROSSING, ILL. RTE. 43 ON SOUTH SIDE OF ILL. RTE. 22		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	FH	H	H	H	H	FH	H
PEDESTRIAN SIGNALS CROSSING, ILL. RTE. 43 ON NORTH SIDE OF ILL. RTE. 22		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	FH	H	H	FH	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING, ILL. RTE. 22 ON EAST SIDE OF ILL. RTE. 43		H	H	H	H	H	H	H	H	H	FH	FH	H	H	FH	H	H	FH	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	25					25			25					PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	PREEMPTOR NUMBER 6	
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1WW	1XX	1YY	1ZZ	1AAA	1BBB	1CCC	1DDD	1EEE	1FFF	1GGG	1HHH	1JJJ	2	3	4	5	CLEAR TO NORMAL SEQUENCE
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1XX	1YY	1ZZ	1AAA	2 OR 4	1CCC	1DDD	3	1FFF	1GGG	1HHH	1JJJ	5					
ILL. RTE. 43, NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R	R	◇
ILL. RTE. 43, MID MAST ARM SIGNAL N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R	R	◇
ILL. RTE. 43, FAR LEFT AND END MAST ARM SIGNALS N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R	R	◇
ILL. RTE. 43, NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◇
ILL. RTE. 43, MID MAST ARM SIGNAL S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◇
ILL. RTE. 43, FAR LEFT AND END MAST ARM SIGNALS S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◇
ILL. RTE. 22 (BEFORE TRACKS) NEAR RIGHT AND TWO NEAR RIGHT MAST ARM SIGNALS E/B	G	Y	R	R	R	G	G	G	G	Y	R	R	R	R	G	R	R	◇
ILL. RTE. 22 (BEFORE TRACKS) NEAR LEFT AND TWO NEAR LEFT MAST ARM SIGNALS E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R	◇
ILL. RTE. 22 (AFTER TRACKS) FAR RIGHT AND MID MAST ARM SIGNALS E/B	G	G	G	Y	R	G	G	G	G	G	G	Y	R	R	G	R	R	◇
ILL. RTE. 22 (AFTER TRACKS) FAR LEFT AND END MAST ARM SIGNALS E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R	◇
ILL. RTE. 22, NEAR RIGHT AND FAR RIGHT MAST ARM SIGNALS W/B	G	G	G	Y	R	G	Y	R	G	G	G	G	G	R	R	R	G	◇
ILL. RTE. 22, MID MAST ARM SIGNAL W/B	G	G	G	Y	R	G	Y	R	G	G	G	G	G	R	R	R	G	◇
ILL. RTE. 22, FAR LEFT AND END MAST ARM SIGNALS W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	◇
PEDESTRIAN SIGNALS CROSSING, ILL. RTE. 43 ON SOUTH SIDE OF ILL. RTE. 22	FH	H	H	H	H	FH	H	H	FH	H	H	H	H	H	H	H	H	◇
PEDESTRIAN SIGNALS CROSSING, ILL. RTE. 43 ON NORTH SIDE OF ILL. RTE. 22	FH	H	H	H	H	FH	H	H	FH	H	H	H	H	H	H	H	H	◇
PEDESTRIAN SIGNALS CROSSING, ILL. RTE. 22 ON EAST SIDE OF ILL. RTE. 43	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◇

P = ILLUMINATED PERSON = "WALK"

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

◇ EMERGENCY VEHICLE PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2, 3, 4 OR 5 IS TERMINATED.

FILE NAME = W:\ILRTE22_2009 REVISIONS\CADD Sheets\revised sheets\D1602860-sht-ts-WAUEVSQ.dgn	USER NAME = pociocha	DESIGNED - LP	REVISED - 07/26/2010
	PLOT SCALE = 20.0000 '/ IN.	DRAWN - LP	REVISED -
	PLOT DATE = 7/28/2010	CHECKED - JP	REVISED -
		DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATIONS
IL. ROUTE 22 AND IL. ROUTE 43 (WAUKEGAN ROAD)

SCALE: NTS | SHEET NO. 153 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	153
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		

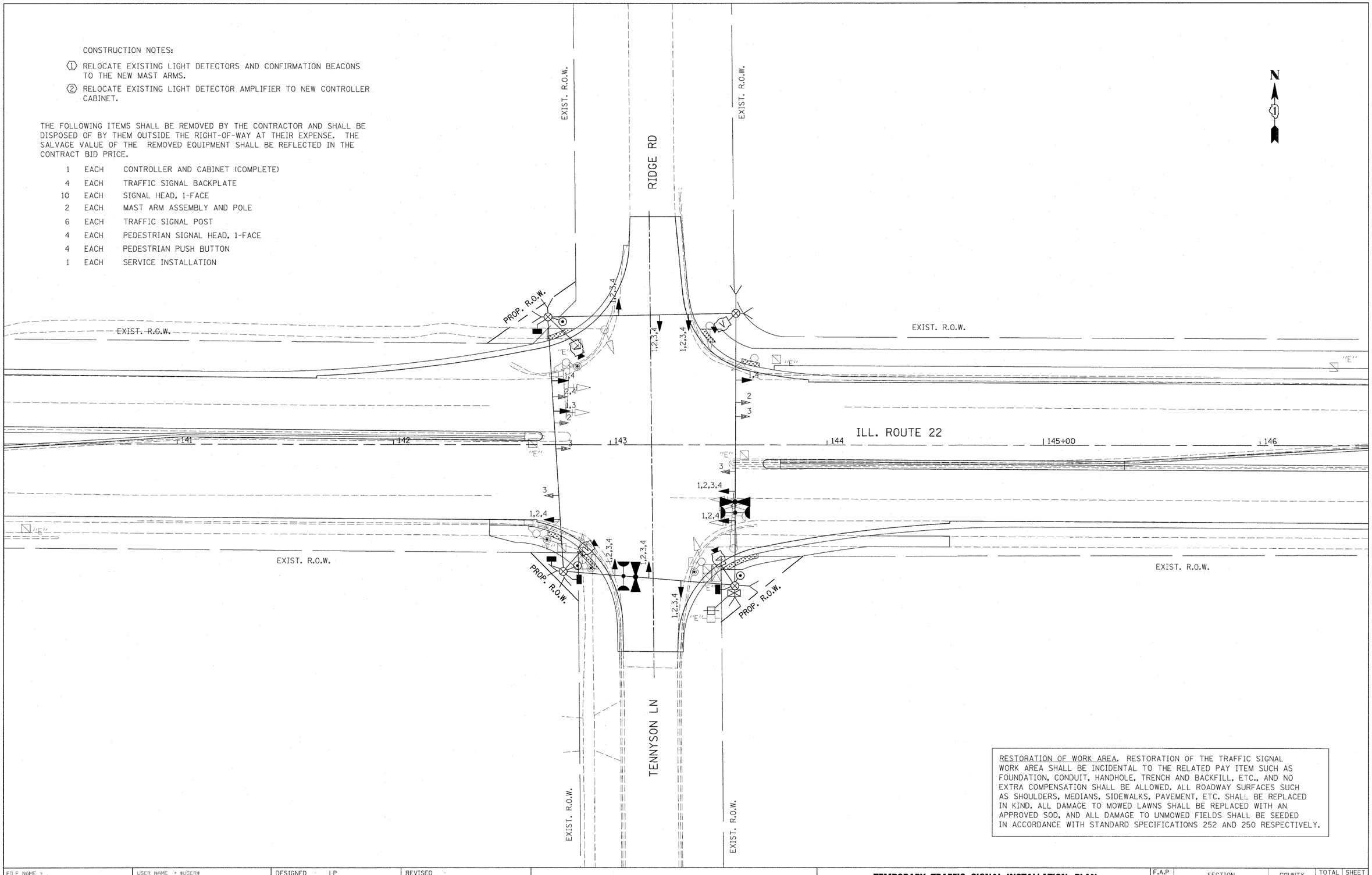
CONSTRUCTION NOTES:

(1) RELOCATE EXISTING LIGHT DETECTORS AND CONFIRMATION BEACONS TO THE NEW MAST ARMS.

(2) RELOCATE EXISTING LIGHT DETECTOR AMPLIFIER TO NEW CONTROLLER CABINET.

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.

1	EACH	CONTROLLER AND CABINET (COMPLETE)
4	EACH	TRAFFIC SIGNAL BACKPLATE
10	EACH	SIGNAL HEAD, 1-FACE
2	EACH	MAST ARM ASSEMBLY AND POLE
6	EACH	TRAFFIC SIGNAL POST
4	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
4	EACH	PEDESTRIAN PUSH BUTTON
1	EACH	SERVICE INSTALLATION



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.

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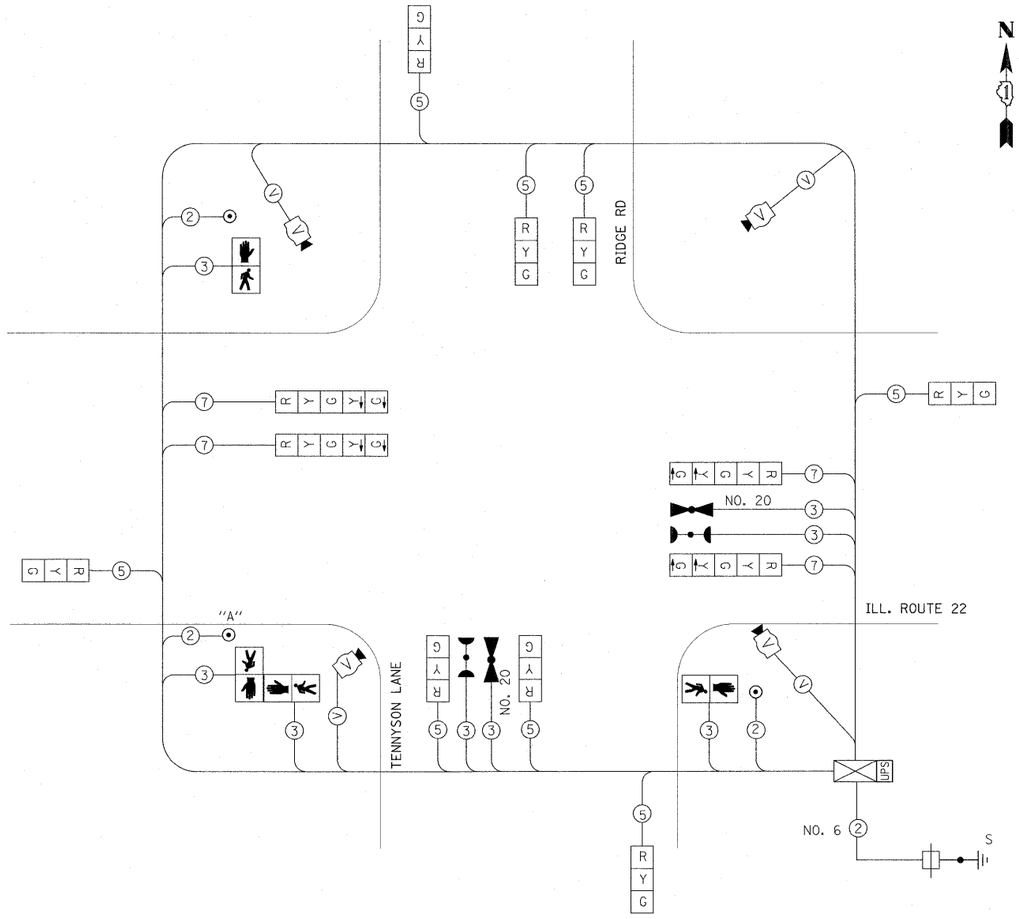
	PLOT SCALE = $SCALE$	CHECKED - JP	REVISED -
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
IL. ROUTE 22 AND TENNYSON LANE / RIDGE ROAD

SCALE: 1"=20' | SHEET NO. 154 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	154
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		



TEMPORARY CABLE PLAN

NOT TO SCALE

PUSH BUTTON NOTES

PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4

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 SUPPLIES 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 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 LED AND 12" (300MM) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATED 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 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.

7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.

8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.

9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.

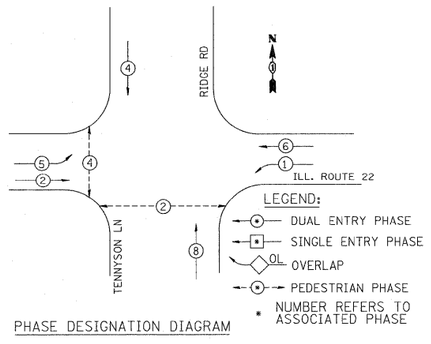
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND	WATTAGE LED	% OPERATION	
SIGNAL (RED)	12		17	0.50	102
(YELLOW)	12		25	0.25	75
(GREEN)	12		15	0.25	45
ARROW	8		12	0.10	9.6
PED. SIGNAL	4		25	1.00	100
CONTROLLER	1		100	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM	1	150		1.00	150
FLASHER			25	0.50	
				TOTAL =	581.6

ENERGY COST TO: Illinois Department of Transportation
Division of Highways / District 1
201 W Center Court / Schaumburg, Illinois 60196-1096

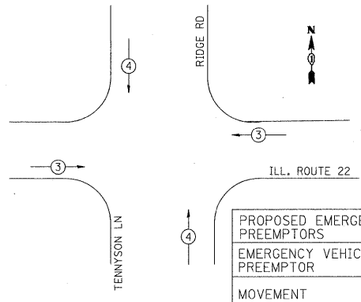
ENERGY SUPPLY: CONTACT: MR. VARUGHESE SAMUEL
PHONE: 847-816-5291
COMPANY: ComEd

TEMPORARY CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

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

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.

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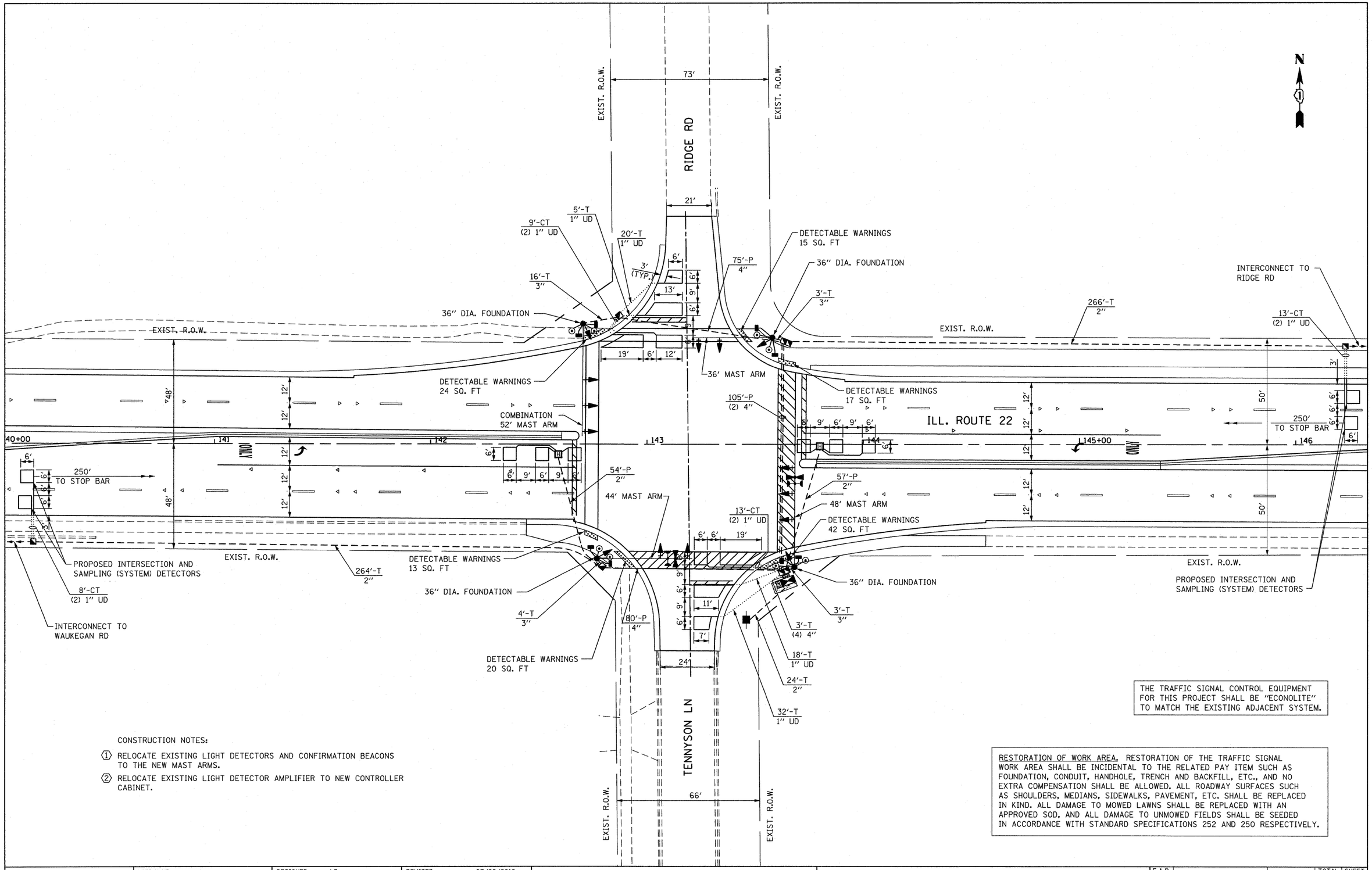
	PLOT SCALE = $SCALE$	DRAWN - LP	REVISED -
	PLOT DATE = 5/15/2010	CHECKED - JP	REVISED -
		DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL ROUTE 22 AND TENNYSON LANE / RIDGE ROAD

SCALE: NTS | SHEET NO. 155 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	155
		CONTRACT NO. 60860		
	ILLINOIS FED. AID PROJECT			



CONSTRUCTION NOTES:

1. RELOCATE EXISTING LIGHT DETECTORS AND CONFIRMATION BEACONS TO THE NEW MAST ARMS.
2. RELOCATE EXISTING LIGHT DETECTOR AMPLIFIER TO NEW CONTROLLER CABINET.

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

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.

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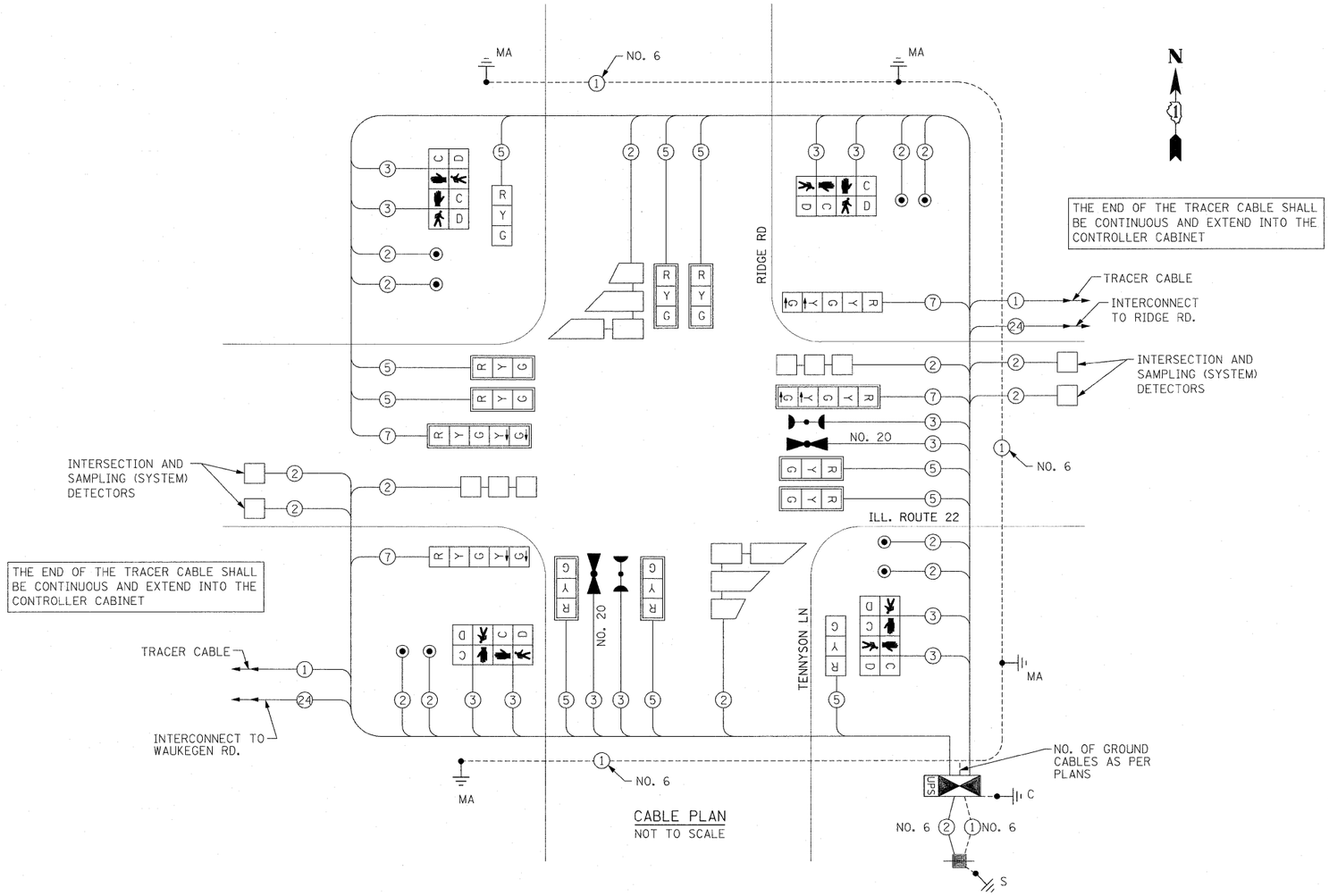
	PLOT DATE = 7/28/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
IL. ROUTE 22 AND TENNYSON LANE / RIDGE ROAD

SCALE: 1"=20' | SHEET NO. 156 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	156
		CONTRACT NO. 60860		
	ILLINOIS FED. AID PROJECT			



CABLE PLAN
NOT TO SCALE

SCHEDULE OF QUANTITIES

	ITEM	UNIT	QNTY.
	SIGN PANEL - TYPE 1	SQ FT	45
	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	554
	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	26
	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	12
	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	111
	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	365
	HANDHOLE	EACH	4
	HEAVY-DUTY HANDHOLE	EACH	2
	DOUBLE HANDHOLE	EACH	2
	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	592
	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
	TRANSCEIVER - FIBER OPTIC	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,112
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,422
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,735
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	694
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2,053
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	44
	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 44 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 48 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	52
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	10
	INDUCTIVE LOOP DETECTOR	EACH	8
	DETECTOR LOOP, TYPE I	FOOT	689
	PEDESTRIAN PUSH-BUTTON	EACH	8
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
**	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
**	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	8
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
	SERVICE INSTALLATION - POLE MOUNTED	EACH	1
	UNINTERRUPTIBLE POWER SUPPLY	EACH	1
	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	461
**	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	258

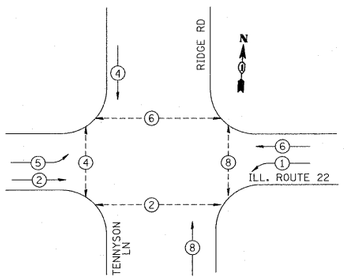
** 100 % COST TO VILLAGE OF HIGHLAND PARK

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	X WATTAGE INCAND	WATTAGE LED	X % OPERATION	
SIGNAL (RED)	14		17	0.50	119
(YELLOW)	14		25	0.25	87.5
(GREEN)	14		15	0.25	52.5
ARROW	8		12	0.10	9.6
PED. SIGNAL	8		25	1.00	200
CONTROLLER	1		100	1.00	100
ILLUM. SIGN			25	0.05	
FLASHER			25	0.50	
				TOTAL =	568.6

ENERGY COST TO: Illinois Department of Transportation
Division of Highways / District 1
201 W Center Court / Schaumburg, Illinois 60196-1096

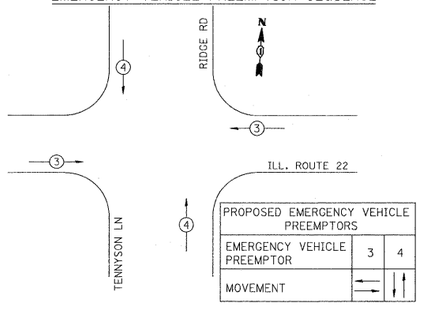
ENERGY SUPPLY: CONTACT: MR. VARUGHESE SAMUEL
PHONE: 847-816-5291
COMPANY: ComEd

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

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.

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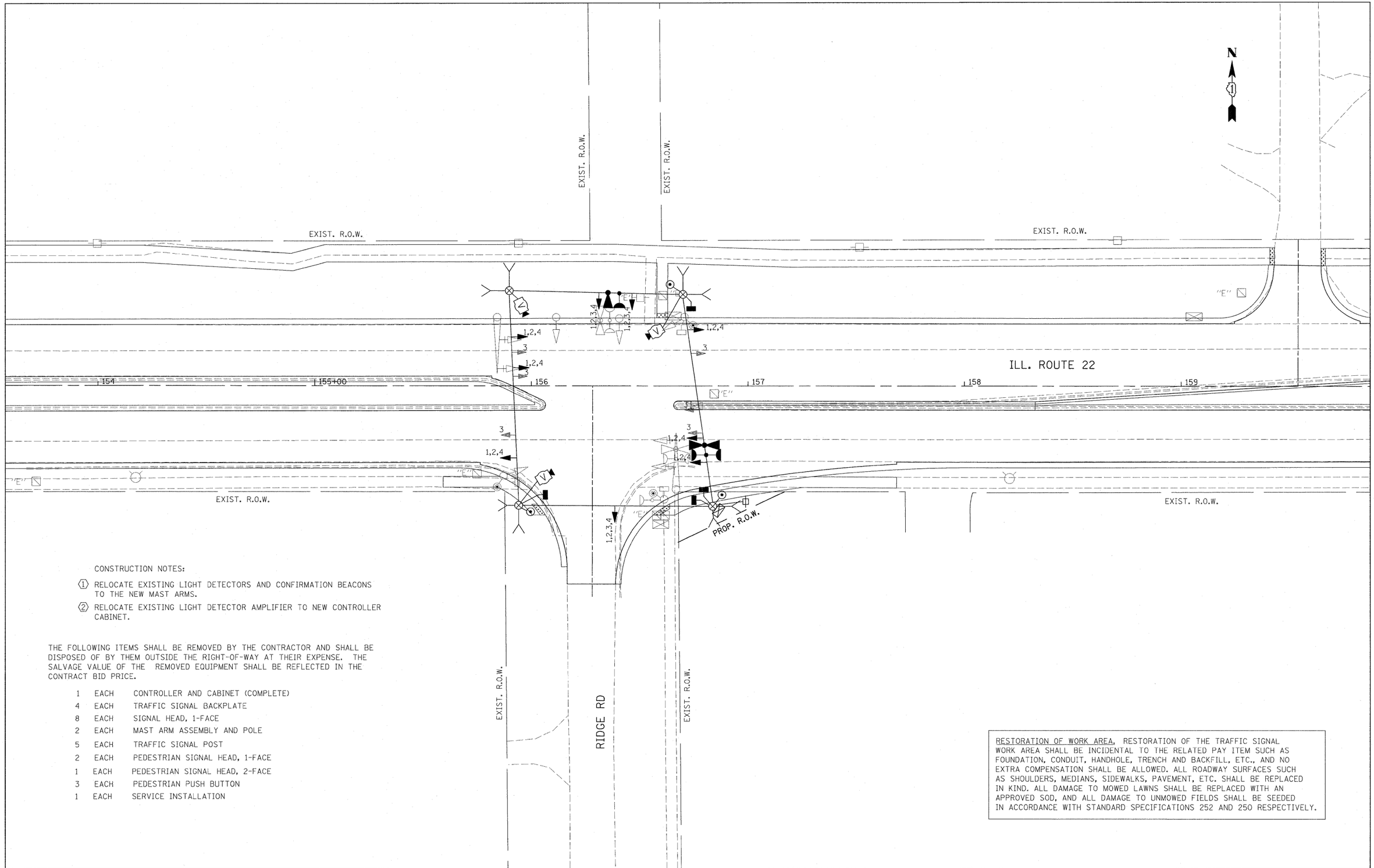
	PLOT SCALE = $SCALE$	CHECKED - JP	REVISED -
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES
IL ROUTE 22 AND TENNYSON LANE / RIDGE ROAD

SCALE: NTS | SHEET NO. 157 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	157
		CONTRACT NO. 60860		
		ILLINOIS FED. AID PROJECT		



CONSTRUCTION NOTES:

(1) RELOCATE EXISTING LIGHT DETECTORS AND CONFIRMATION BEACONS TO THE NEW MAST ARMS.

(2) RELOCATE EXISTING LIGHT DETECTOR AMPLIFIER TO NEW CONTROLLER CABINET.

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.

1	EACH	CONTROLLER AND CABINET (COMPLETE)
4	EACH	TRAFFIC SIGNAL BACKPLATE
8	EACH	SIGNAL HEAD, 1-FACE
2	EACH	MAST ARM ASSEMBLY AND POLE
5	EACH	TRAFFIC SIGNAL POST
2	EACH	PEDESTRIAN SIGNAL HEAD, 1-FACE
1	EACH	PEDESTRIAN SIGNAL HEAD, 2-FACE
3	EACH	PEDESTRIAN PUSH BUTTON
1	EACH	SERVICE INSTALLATION

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.

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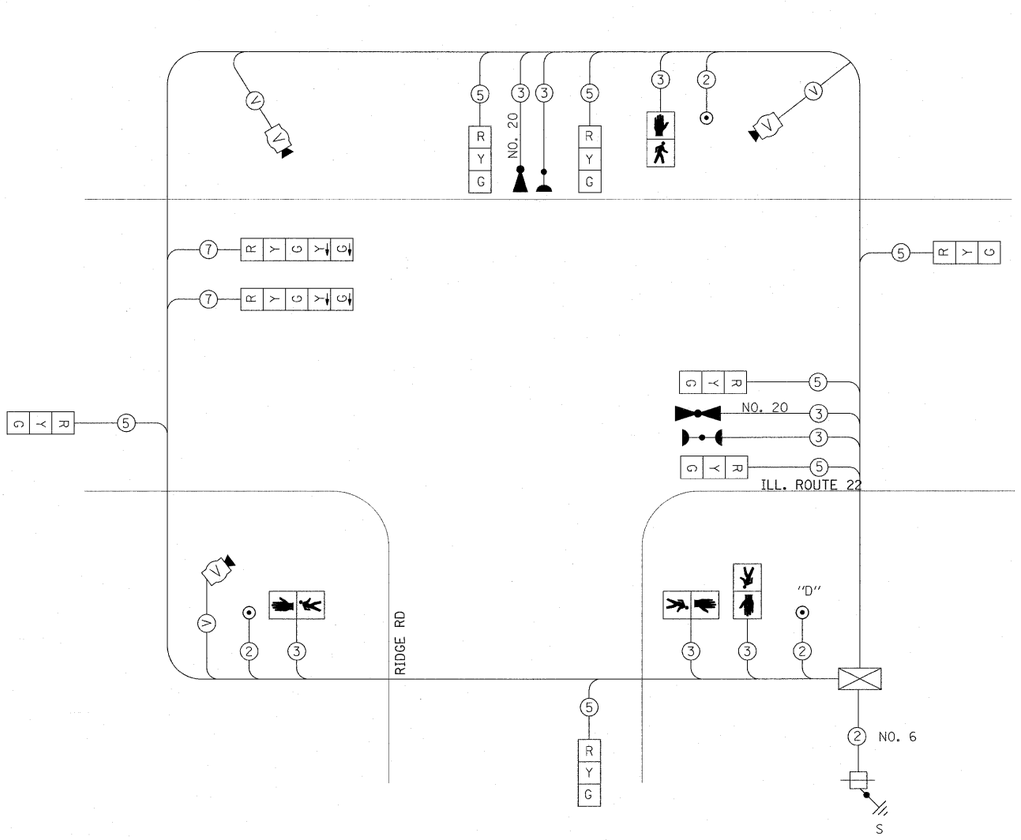
		DRAWN - LP	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - JP	REVISED -
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
IL. ROUTE 22 AND RIDGE ROAD

SCALE: 1"=20' | SHEET NO. 158 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	158
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		



TEMPORARY CABLE PLAN
NOT TO SCALE

PUSH BUTTON NOTES

PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

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 SUPPLIES 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 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 LED AND 12" (300MM) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATED 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 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.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

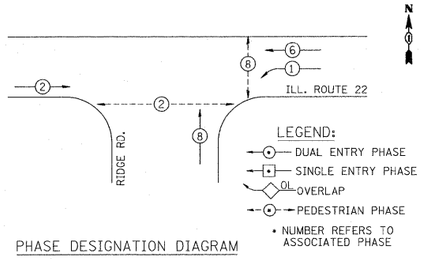
I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	X WATTAGE INCAND	X WATTAGE LED	X % OPERATION	TOTAL WATTAGE
SIGNAL (RED)	9		17	0.50	76.5
(YELLOW)	9		25	0.25	56.25
(GREEN)	9		15	0.25	33.75
ARROW	4		12	0.10	4.8
PED. SIGNAL	4		25	1.00	100
CONTROLLER	1		100	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM	1	150		1.00	150
FLASHER			25	0.50	
				TOTAL =	521.3

ENERGY COST TO: Illinois Department of Transportation
Division of Highways / District 1
201 W Center Court / Schaumburg, Illinois 60196-1096

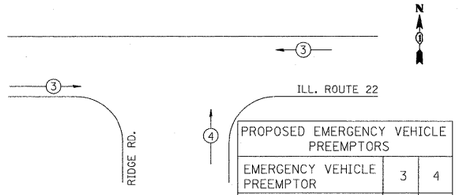
ENERGY SUPPLY:
CONTACT: MR. VARUGHESE SAMUEL
PHONE: 847-816-5291
COMPANY: ComEd

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

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

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.

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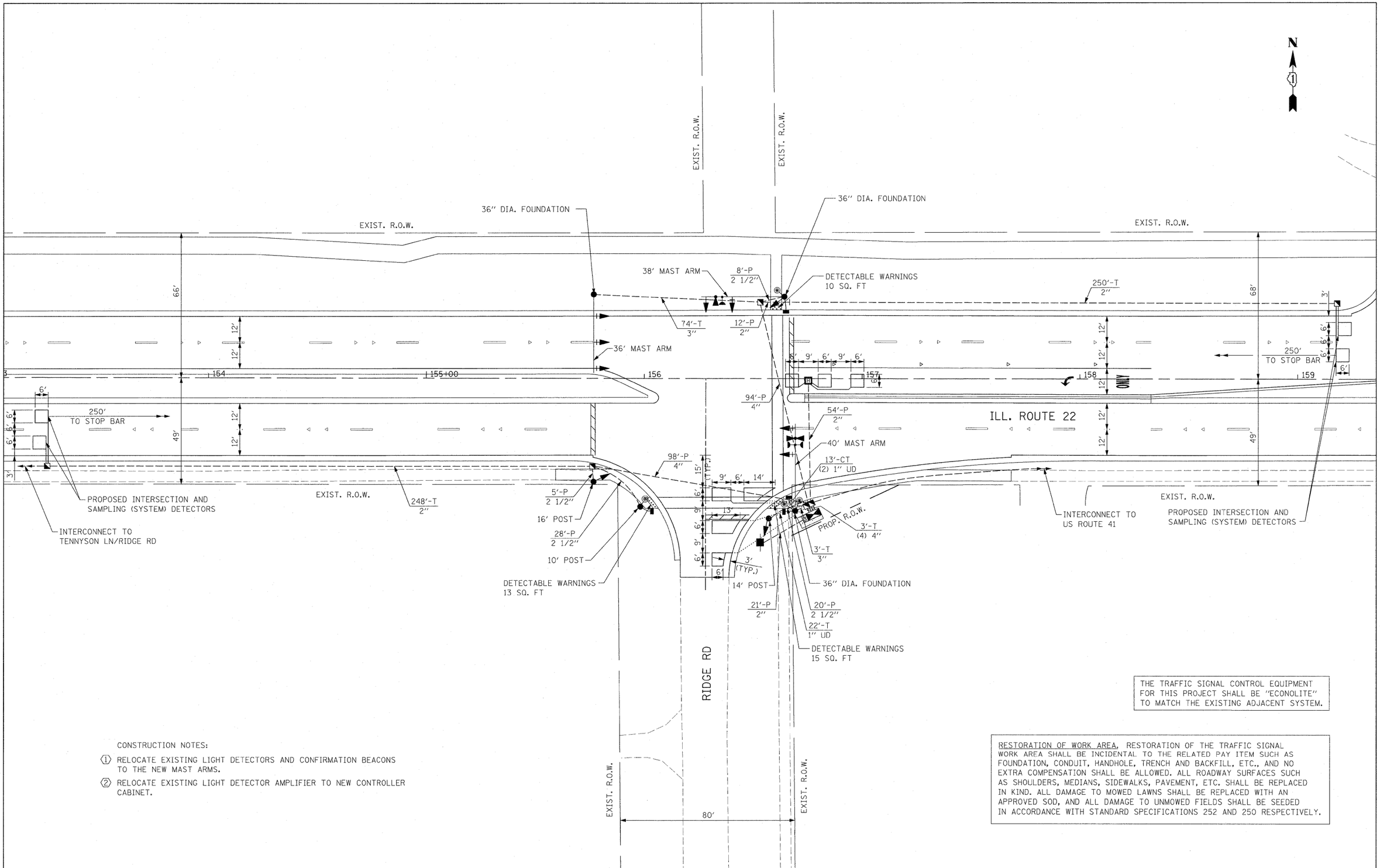
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL. ROUTE 22 AND RIDGE ROAD

SCALE: NTS | SHEET NO. 159 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	159
		CONTRACT NO. 60860		
		ILLINOIS	FED. AID PROJECT	



CONSTRUCTION NOTES:

① RELOCATE EXISTING LIGHT DETECTORS AND CONFIRMATION BEACONS TO THE NEW MAST ARMS.

② RELOCATE EXISTING LIGHT DETECTOR AMPLIFIER TO NEW CONTROLLER CABINET.

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

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.

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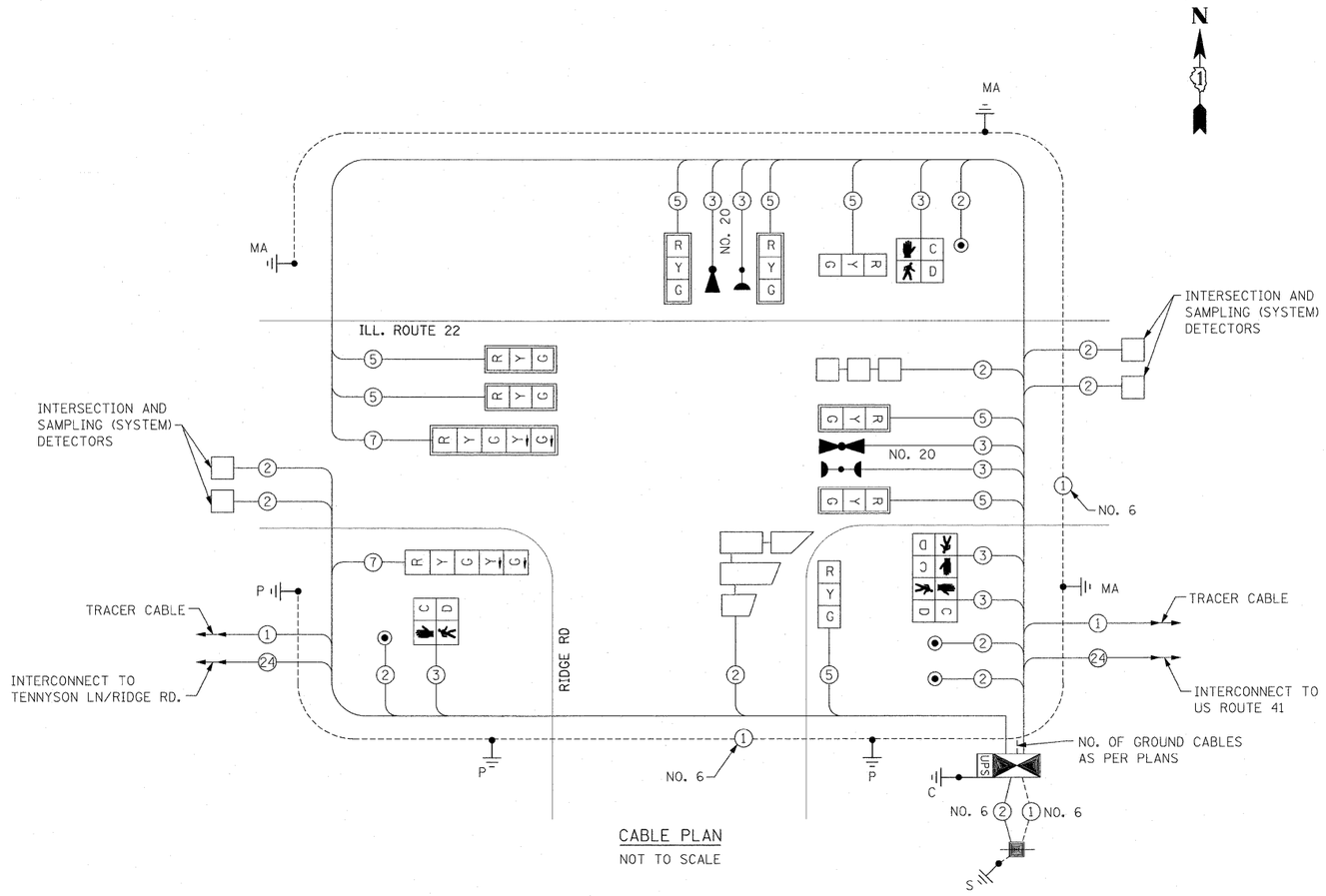
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
IL. ROUTE 22 AND RIDGE ROAD

SCALE: 1"=20' | SHEET NO. 160 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	160
		CONTRACT NO. 60860		
		ILLINOIS FED. AID PROJECT		



CABLE PLAN

NOT TO SCALE

SCHEDULE OF QUANTITIES

	ITEM	UNIT	QNTY.
	SIGN PANEL - TYPE 1	SQ FT	19.5
	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	498
	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	77
	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	12
	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	94
	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	53
	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	192
	HANDHOLE	EACH	4
	HEAVY-DUTY HANDHOLE	EACH	1
	DOUBLE HANDHOLE	EACH	1
	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	587
	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
	TRANSCEIVER - FIBER OPTIC	EACH	1
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	360
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	653
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,207
	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	402
	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,640
	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	41
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1
	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.	EACH	1
	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
	CONCRETE FOUNDATION, TYPE A	FOOT	12
	CONCRETE FOUNDATION, TYPE C	FOOT	4
	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	35
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	6
	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	1
	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	7
	INDUCTIVE LOOP DETECTOR	EACH	6
	DETECTOR LOOP, TYPE I	FOOT	428
	PEDESTRIAN PUSH-BUTTON	EACH	4
	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
**	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2
**	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	1
	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
	REMOVE EXISTING HANDHOLE	EACH	6
	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
	SERVICE INSTALLATION - POLE MOUNTED	EACH	1
	UNINTERRUPTIBLE POWER SUPPLY	EACH	1
	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	473
**	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	265

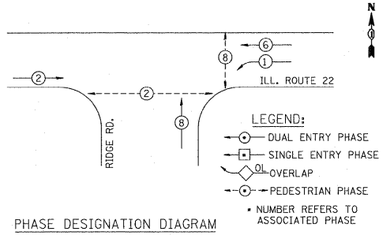
** 100 % COST TO VILLAGE OF HIGHLAND PARK

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	X WATTAGE INCAND	X WATTAGE LED	X % OPERATION	
SIGNAL (RED)	10		17	0.50	85
(YELLOW)	10		25	0.25	62.5
(GREEN)	10		15	0.25	37.5
ARROW	4		12	0.10	4.8
PED. SIGNAL	4		25	1.00	100
CONTROLLER	1		100	1.00	100
ILLUM. SIGN			25	0.05	
FLASHER				0.50	
				TOTAL =	389.8

ENERGY COST TO: Illinois Department of Transportation
Division of Highways / District 1
201 W Center Court / Schaumburg, Illinois 60196-1096

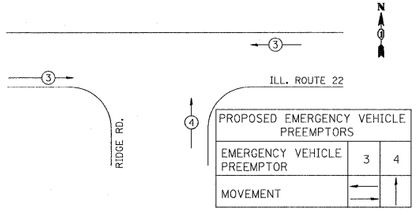
ENERGY SUPPLY: CONTACT: MR. VARUGHESE SAMUEL
PHONE: 847-816-5291
COMPANY: ComEd

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET

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

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.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

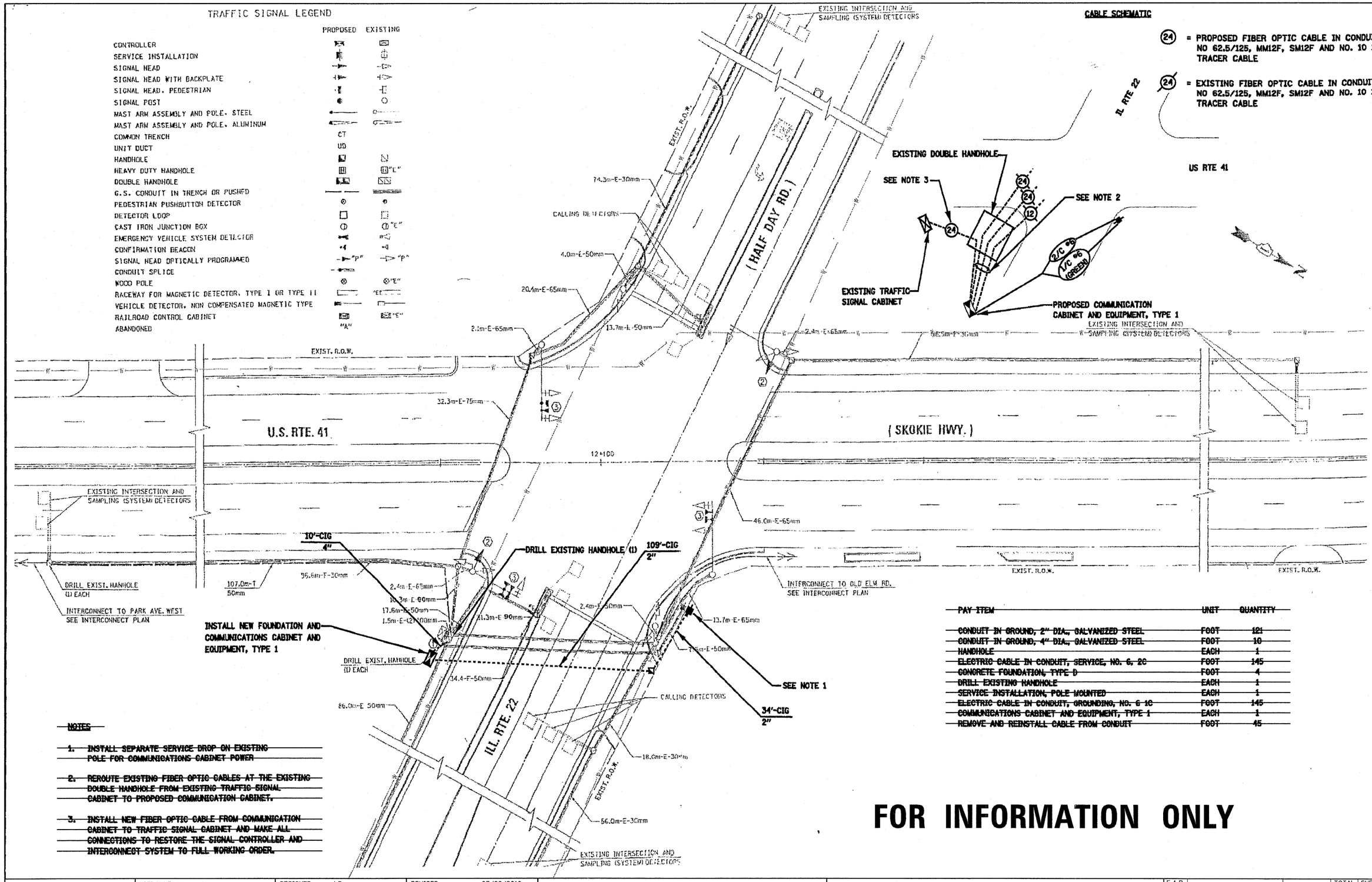
CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL. ROUTE 22 AND RIDGE ROAD

SCALE: NTS | SHEET NO. 161 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	161
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
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		
COMMON TRENCH	CT	
UNIT DUCT	UD	
HANDHOLE		
HEAVY DUTY HANDHOLE		"E"
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH OR PUSHED		
PEDESTRIAN PUSHBUTTON DETECTOR		
DETECTOR LOOP		
CAST IRON JUNCTION BOX		"E"
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED	"P"	"P"
CONDUIT SPLICE		
WOOD POLE		"E"
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		"E"
ABANDONED	"A"	



CABLE SCHEMATIC

(24) = PROPOSED FIBER OPTIC CABLE IN CONDUIT, NO 62.5/125, MM12F, SM12F AND NO. 10 1/C TRACER CABLE

(24) = EXISTING FIBER OPTIC CABLE IN CONDUIT, NO 62.5/125, MM12F, SM12F AND NO. 10 1/C TRACER CABLE

~~NOTES~~

~~1. INSTALL SEPARATE SERVICE DROP ON EXISTING POLE FOR COMMUNICATIONS CABINET POWER~~

~~2. REROUTE EXISTING FIBER OPTIC CABLES AT THE EXISTING DOUBLE HANDHOLE FROM EXISTING TRAFFIC SIGNAL CABINET TO PROPOSED COMMUNICATION CABINET.~~

~~3. INSTALL NEW FIBER OPTIC CABLE FROM COMMUNICATION CABINET TO TRAFFIC SIGNAL CABINET AND MAKE ALL CONNECTIONS TO RESTORE THE SIGNAL CONTROLLER AND INTERCONNECT SYSTEM TO FULL WORKING ORDER.~~

~~PAY ITEM~~	~~UNIT~~	~~QUANTITY~~
~~CONDUIT IN GROUND, 2" DIA., GALVANIZED STEEL~~	~~FOOT~~	~~121~~
~~CONDUIT IN GROUND, 4" DIA., GALVANIZED STEEL~~	~~FOOT~~	~~10~~
~~HANDHOLE~~	~~EACH~~	~~1~~
~~ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6, 2C~~	~~FOOT~~	~~145~~
~~CONCRETE FOUNDATION, TYPE D~~	~~FOOT~~	~~4~~
~~DRILL EXISTING HANDHOLE~~	~~EACH~~	~~1~~
~~SERVICE INSTALLATION, POLE MOUNTED~~	~~EACH~~	~~1~~
~~ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C~~	~~FOOT~~	~~145~~
~~COMMUNICATIONS CABINET AND EQUIPMENT, TYPE 1~~	~~EACH~~	~~1~~
~~REMOVE AND REINSTALL CABLE FROM CONDUIT~~	~~FOOT~~	~~45~~

FOR INFORMATION ONLY

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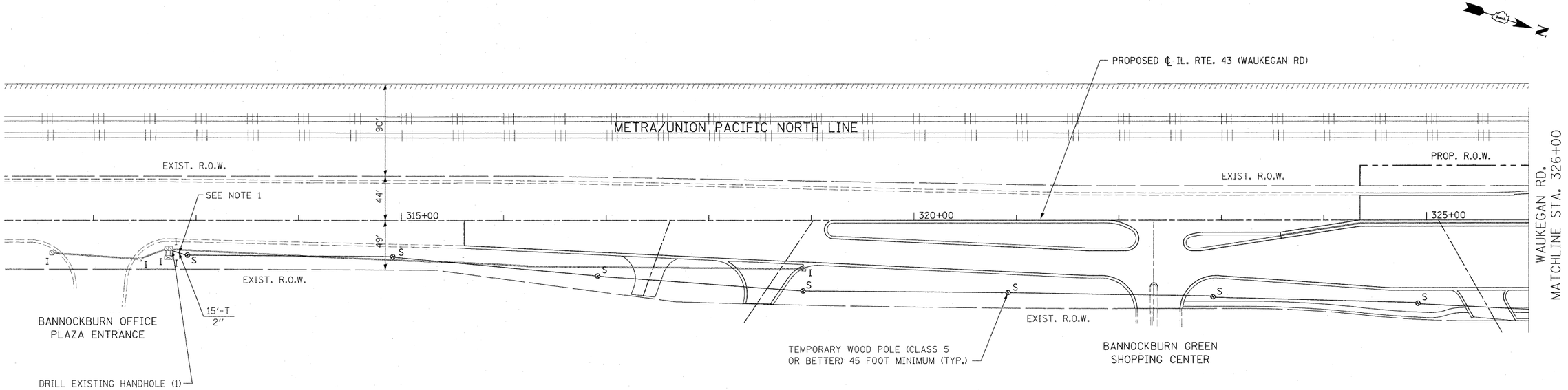
	PLOT DATE = 7/28/2010	CHECKED - JP	REVISED -
		DATE - 05/14/2010	REVISED -

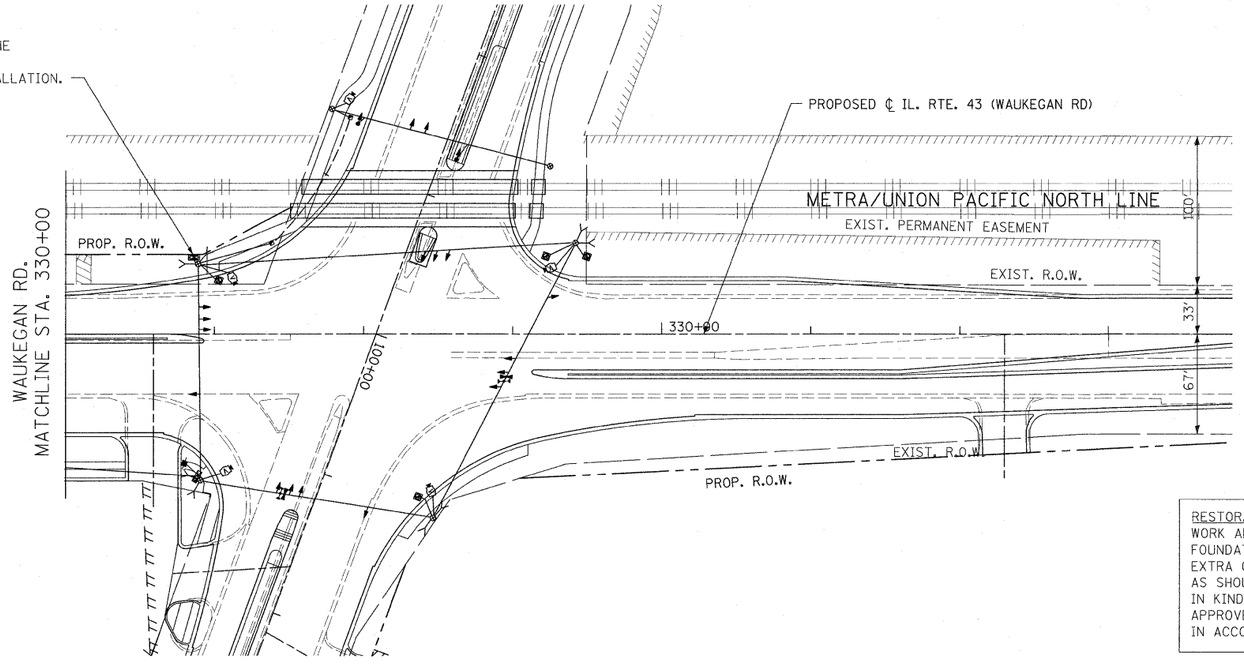
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 22
COMMUNICATION NODE US-41 /SKOKIE HWY AND IL-22 /HALF DAY RD

SCALE: NTS | SHEET NO. 162 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	162
		CONTRACT NO. 60860		
	ILLINOIS FED. AID PROJECT			





THE CONTRACTOR SHALL CONNECT AERIAL CABLE TO THE RAILROAD CABINET USING 2" CONDUIT. THIS WORK IS INCIDENTAL TO THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

NOTE:

1. THE CONTRACTOR SHALL INSTALL THE WOOD POLE AS SHOWN IN THE PLAN AND CONNECT THE AERIAL CABLE TO THE EXISTING HANDHOLE USING 2" CONDUIT. THIS WORK IS INCIDENTAL TO THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

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

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.

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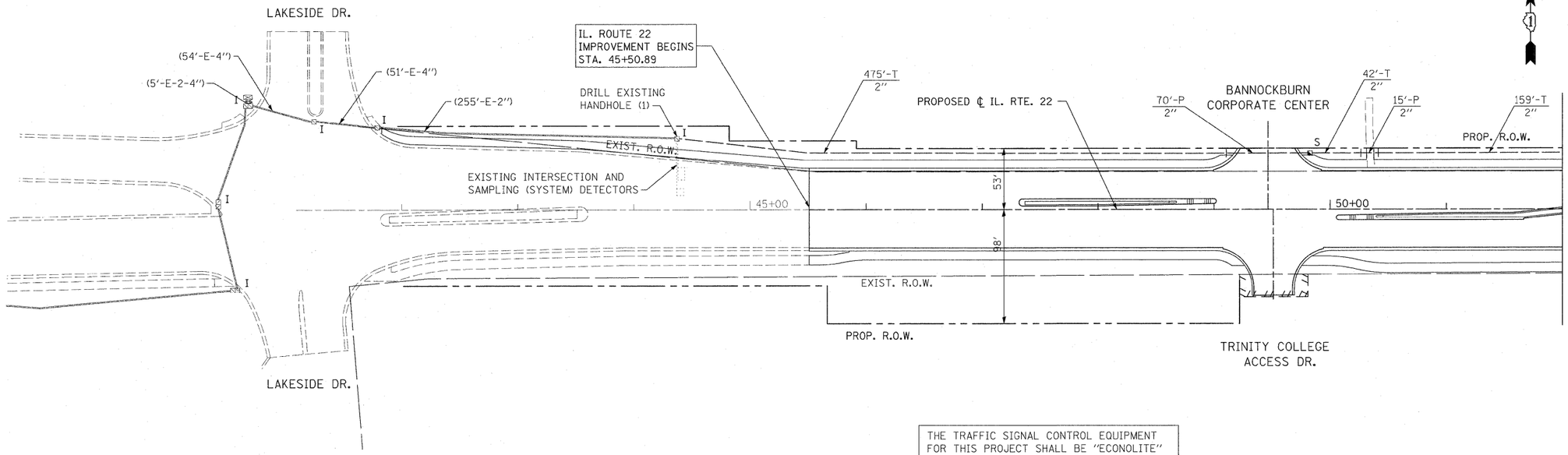
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 43 (WAUKEGAN ROAD)
TEMPORARY INTERCONNECT PLAN

SCALE: 1"=50' | SHEET NO. 163 OF 232 SHEETS | STA. 315+61.61 TO STA. 337+52.22

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	163
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		



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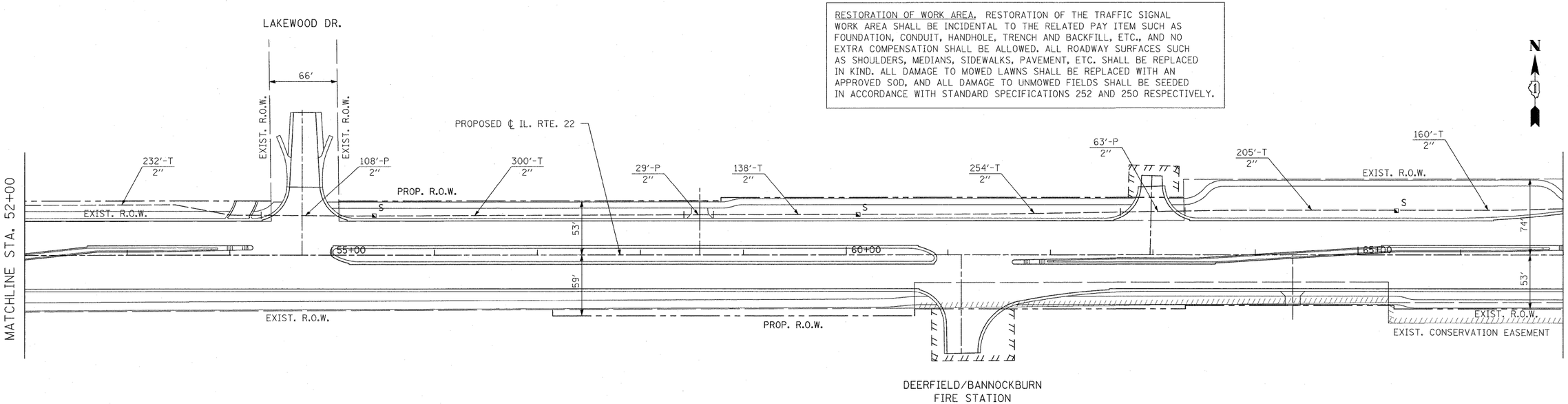

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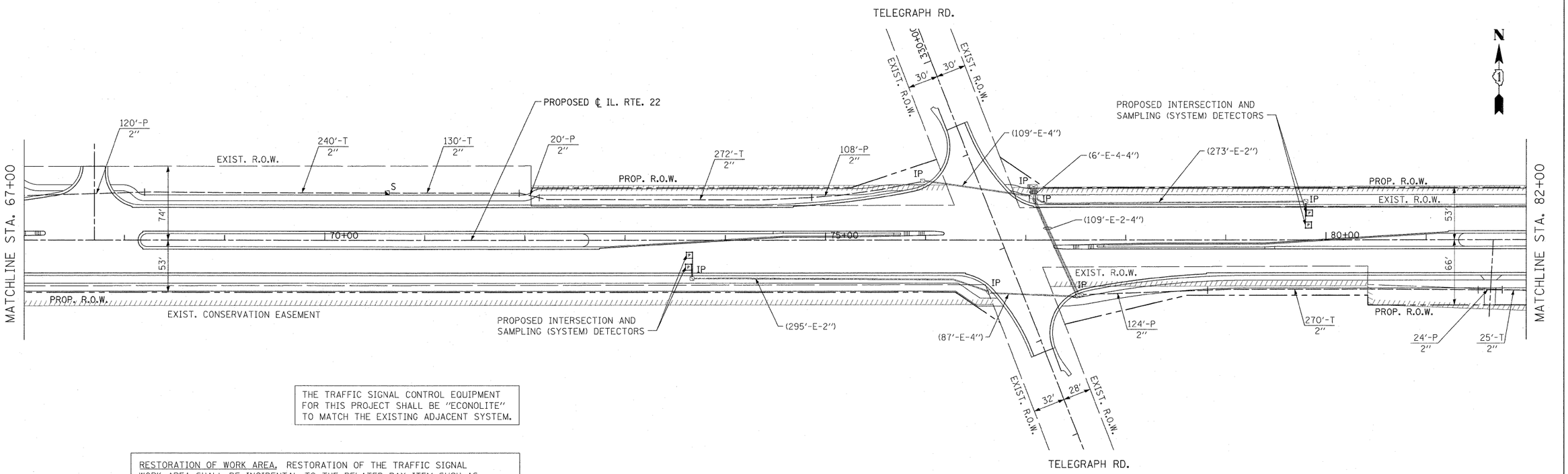
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 22
INTERCONNECT PLAN (1 OF 6)

SCALE: 1"=50' | SHEET NO. 164 OF 232 SHEETS | STA. 45+50.89 TO STA. 67+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	164
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		



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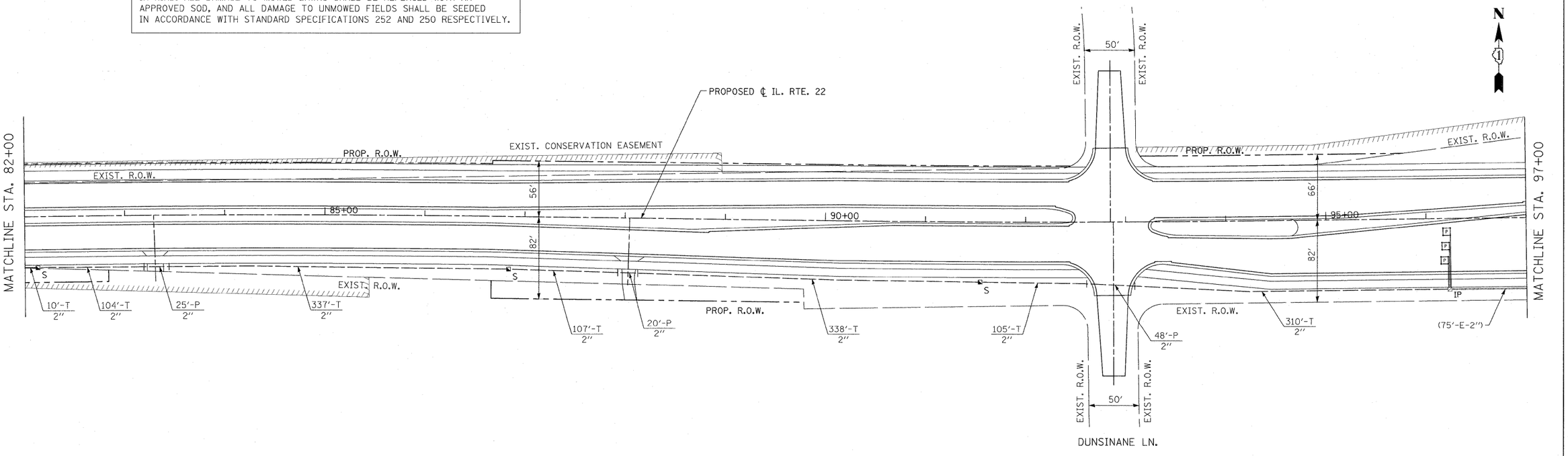
RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL 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.



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		DRAWN - DC	REVISED -
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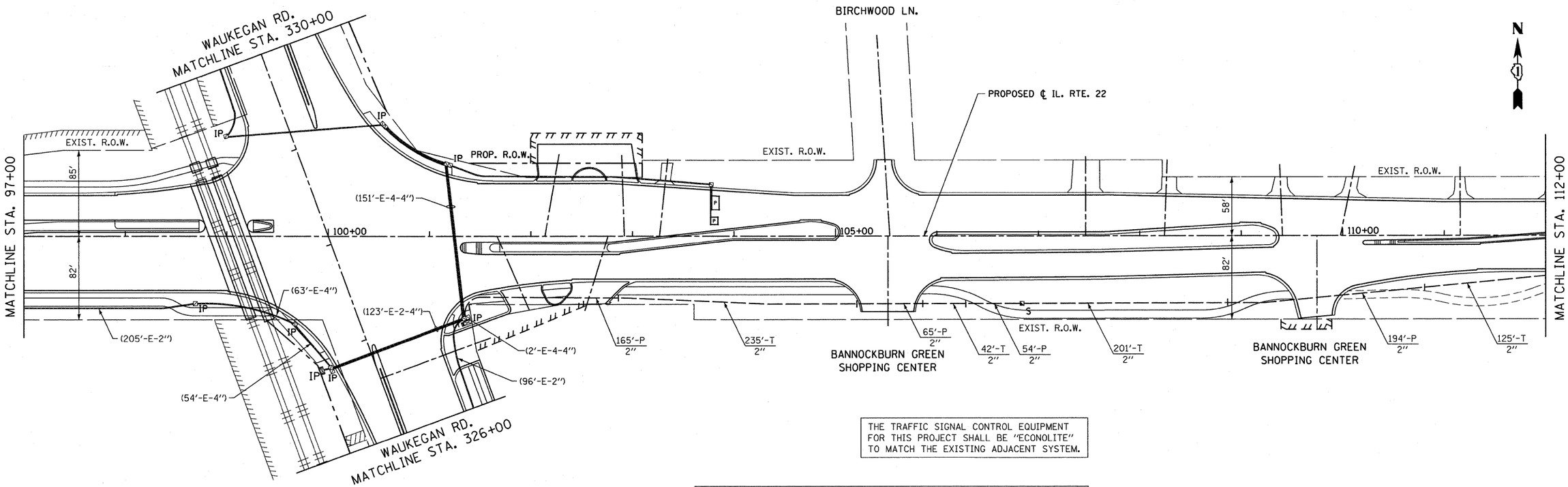
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 22
INTERCONNECT PLAN (2 OF 6)

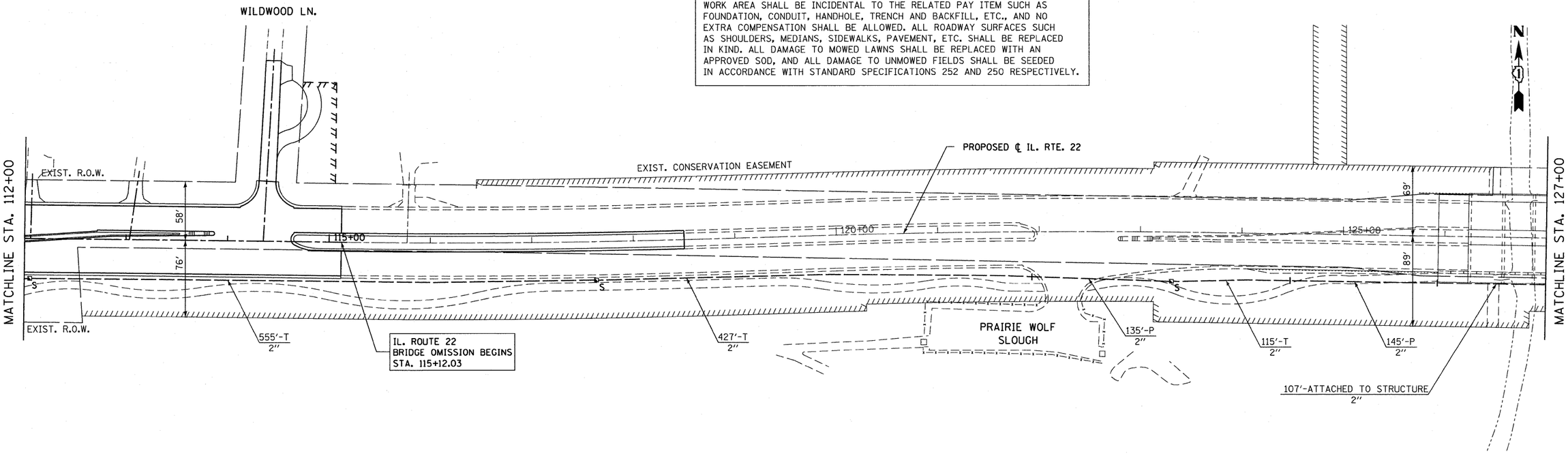
SCALE: 1"=50' | SHEET NO. 165 OF 232 SHEETS | STA. 67+00.00 TO STA. 97+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	165
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		



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

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.



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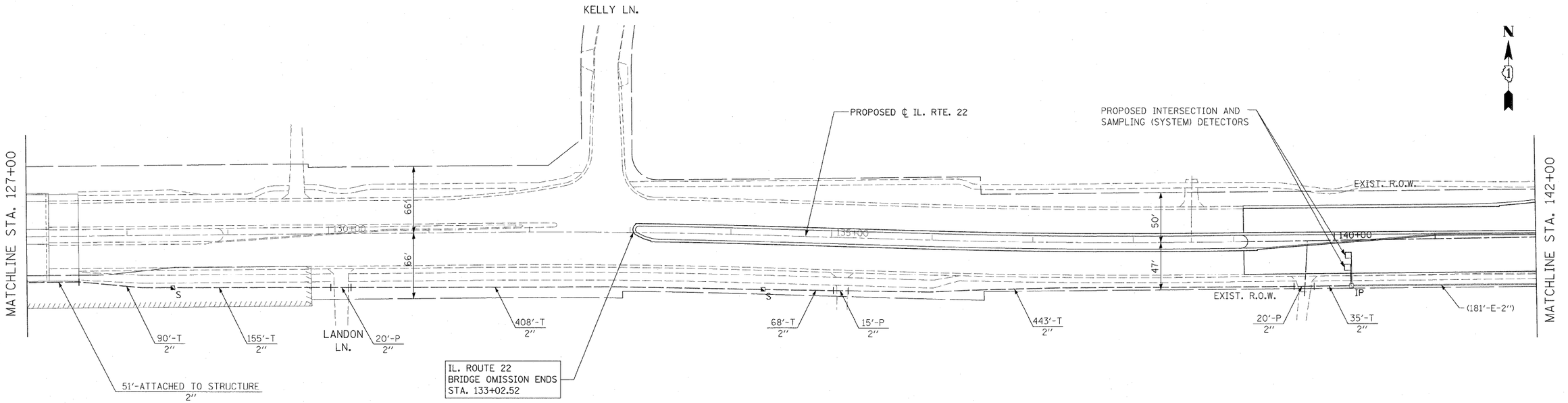
	PLOT DATE = 7/28/2010	CHECKED - JP	REVISED -
		DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 22
INTERCONNECT PLAN (3 OF 6)

SCALE: 1"=50' | SHEET NO. 166 OF 232 SHEETS | STA. 97+00.00 TO STA. 127+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	166
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		



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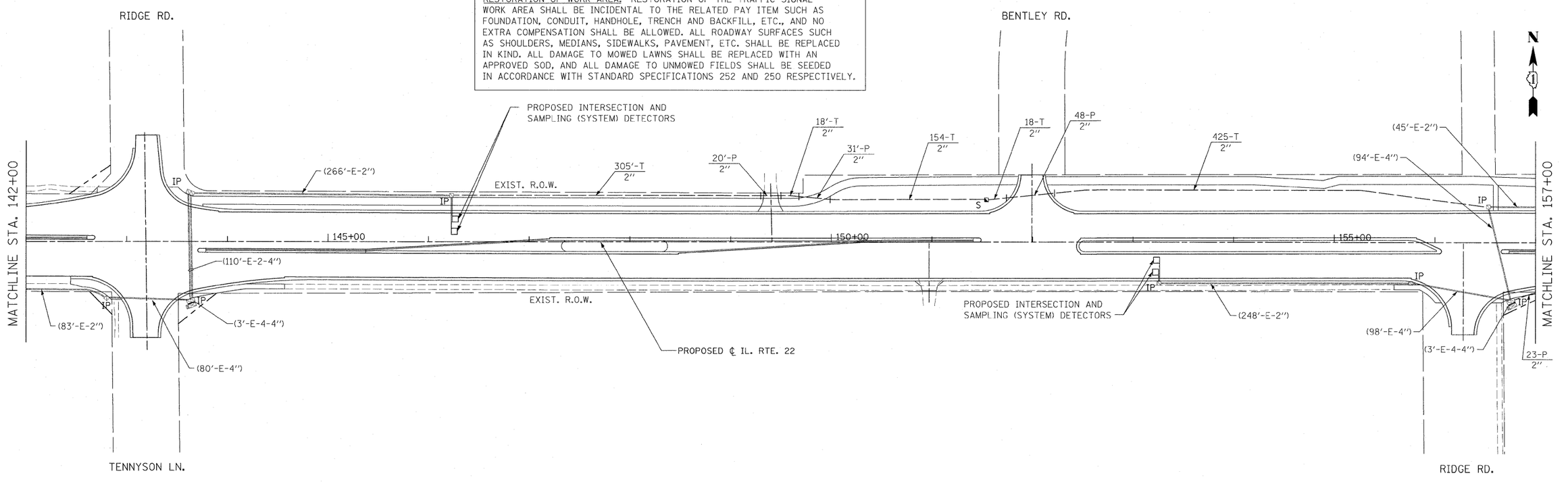

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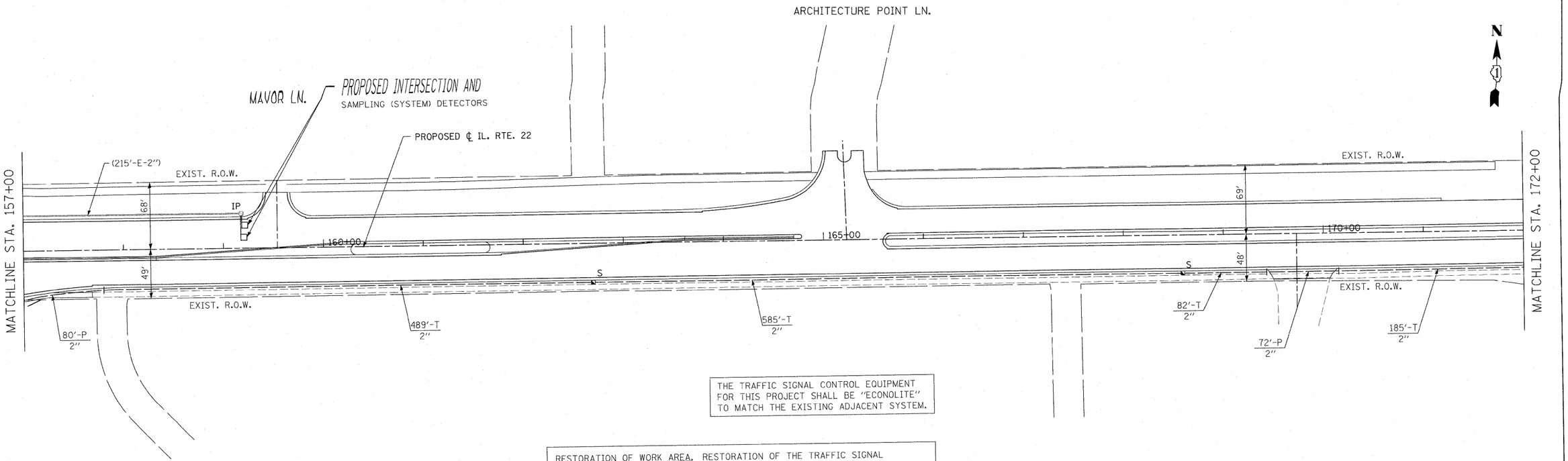
		DRAWN - DC	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - JP	REVISED -
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 22
INTERCONNECT PLAN (4 OF 6)

SCALE: 1"=50' | SHEET NO. 167 OF 232 SHEETS | STA. 127+00.00 TO STA. 157+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	167
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		



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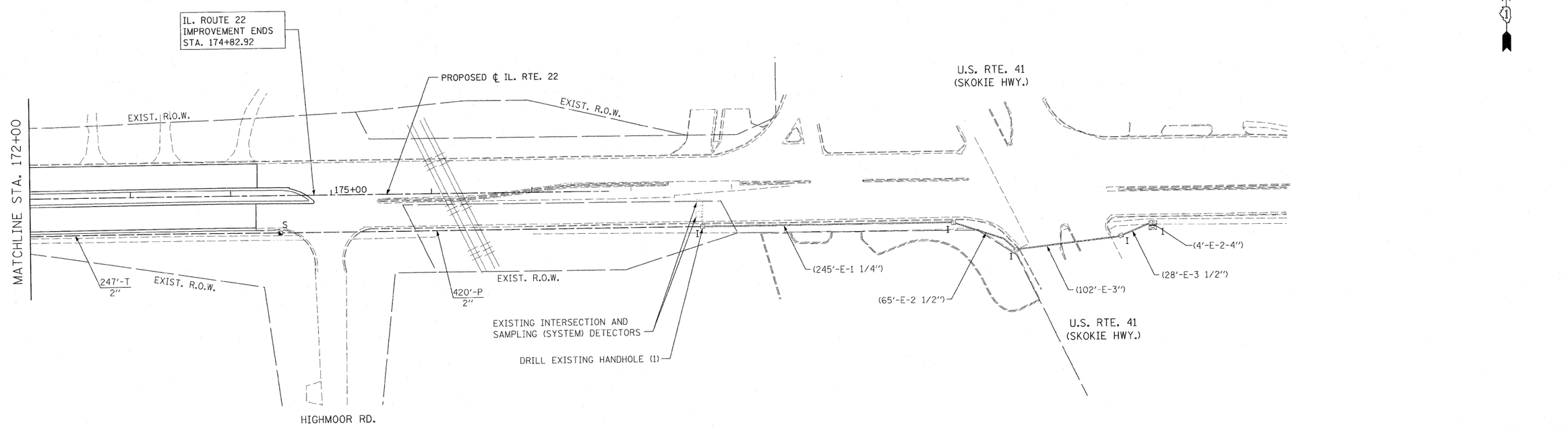

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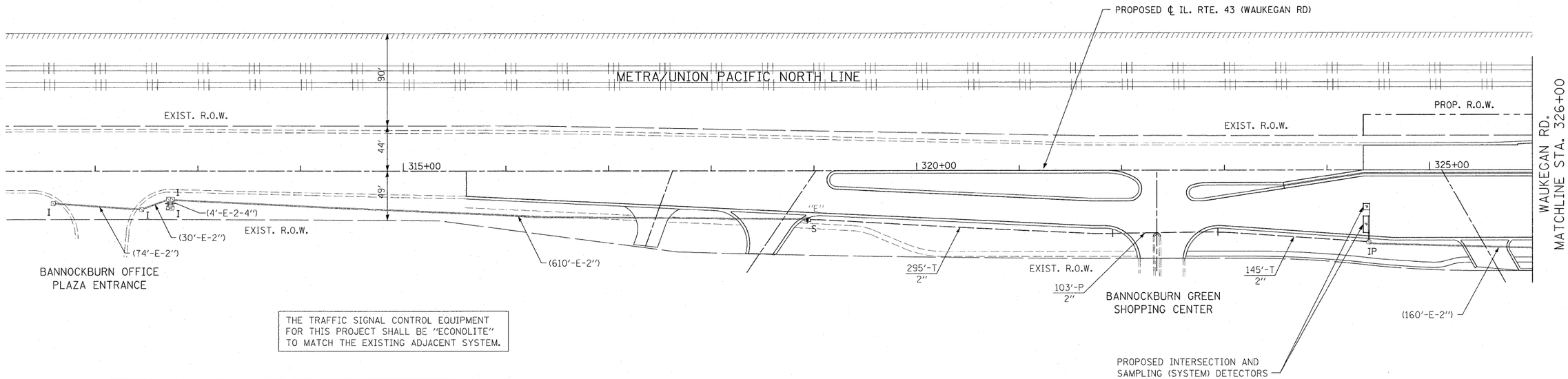
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 22
INTERCONNECT PLAN (5 OF 6)

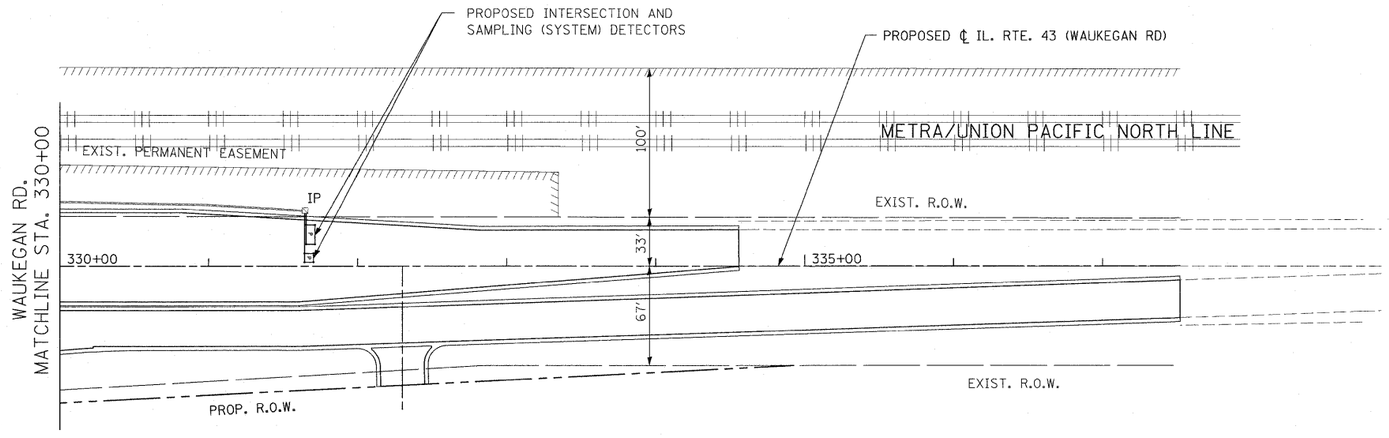
SCALE: 1"=50' | SHEET NO. 168 OF 232 SHEETS | STA. 157+00.00 TO STA. 174+82.92

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	168
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		



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

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.



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		DRAWN - DC	REVISED -
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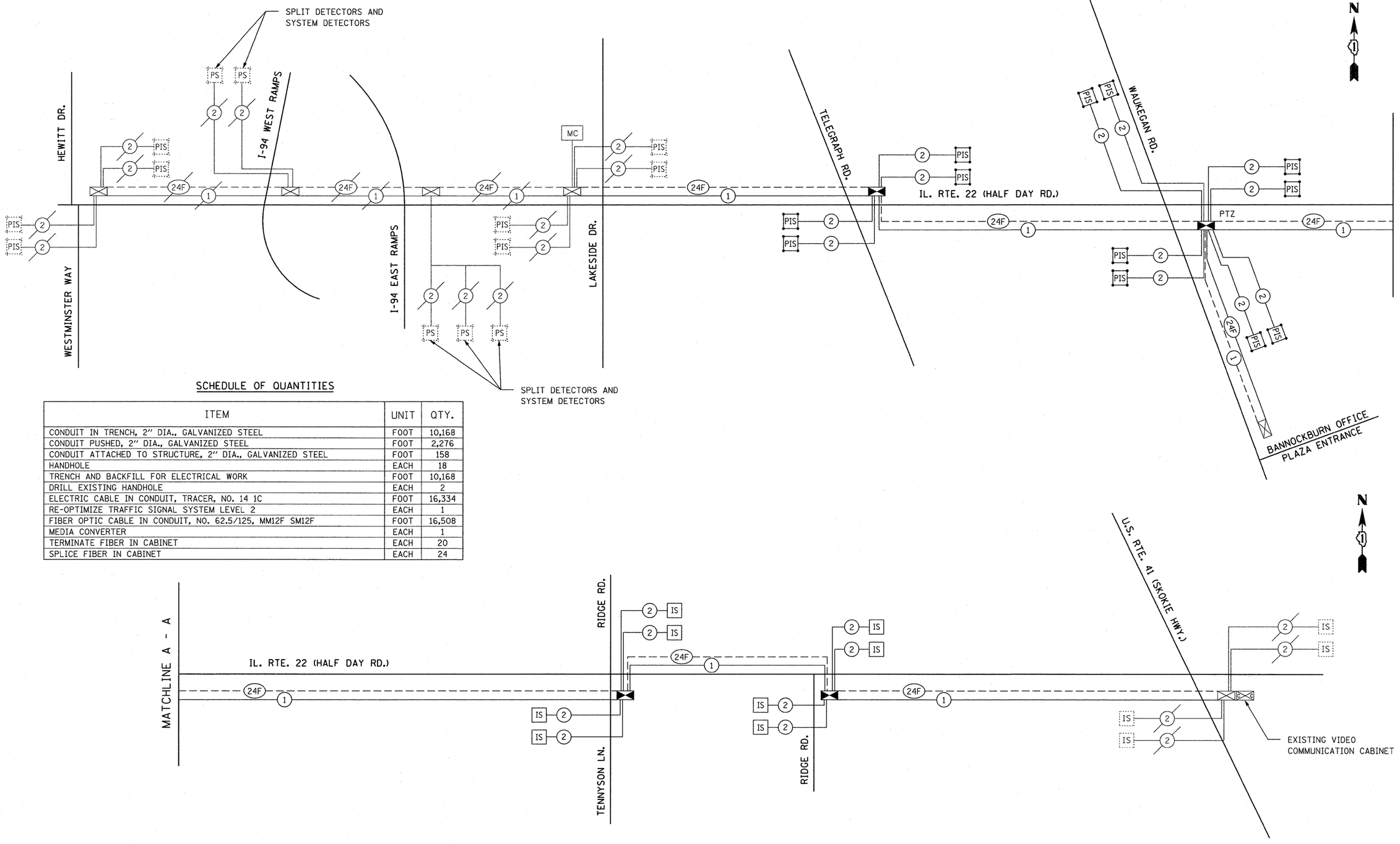
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 43 (WAUKEGAN ROAD)
INTERCONNECT PLAN (6 OF 6)

SCALE: 1"=50' | SHEET NO. 169 OF 232 SHEETS | STA. 97+00.00 TO STA. 127+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	169
		CONTRACT NO. 60860		
		ILLINOIS	FED. AID PROJECT	



SCHEDULE OF QUANTITIES

ITEM	UNIT	QTY.
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	10,168
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	2,276
CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	158
HANDHOLE	EACH	18
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	10,168
DRILL EXISTING HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	16,334
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	16,508
MEDIA CONVERTER	EACH	1
TERMINATE FIBER IN CABINET	EACH	20
SPLICE FIBER IN CABINET	EACH	24

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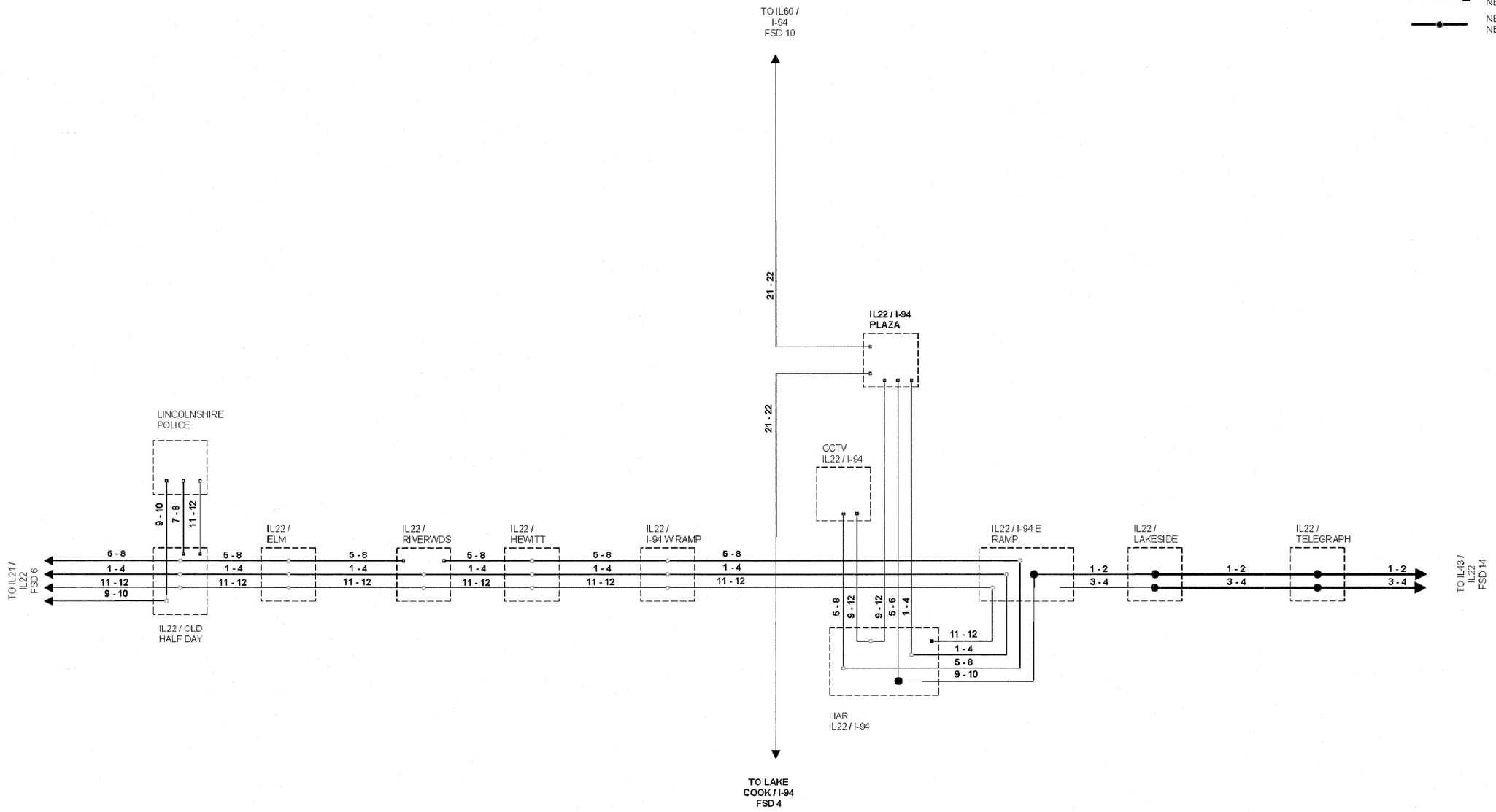
	PLOT SCALE = 20.0000 ' / IN.	DRAWN - LP	REVISED - 07/27/2010		SCALE: NTS | SHEET NO. 170 OF 232 SHEETS | STA. | TO STA.
	PLOT DATE = 7/28/2010	CHECKED - JP	REVISED -		
		DATE - 05/14/2010	REVISED -		

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	170
		CONTRACT NO. 60860		
	ILLINOIS FED. AID PROJECT			

EXISTING CONNECTOR / EXISTING FIBER
NEW CONNECTOR / EXISTING FIBER
EXISTING FUSION SPLICE / EXISTING FIBER
NEW FUSION SPLICE / EXISTING FIBER
NEW CONNECTOR / NEW FIBER
NEW FUSION SPLICE / NEW FIBER



Delcan
TRANSPORTATION • INFORMATION TECHNOLOGY • WATER

CLIENT: LakeCounty Division of Transportation

NO.	DATE	
V5.9	2/10	IL 22 FROM I-94 TO US41
FILE NAME		$FILE$

DESIGN	DJG	1/10
DRAWN	SM/YM	1/10
CHECKED	DJG	2/10
SCALE	NOT TO SCALE	
DATE	6/23/10	

TITLE: LAKE COUNTY ATMS FINAL DESIGN AND INTEGRATION

FIBER SPLICING DIAGRAM - 7
IL22 / I-94

PROJECT NO.
SHEET OF
DRAWING NO.

FILE NAME = W:\ILRTE22_2009 REVISIONS\CADD Sheets\revised sheets\D160860-sht-TS_details.dgn	USER NAME = pociecha	DESIGNED - LP	REVISED -
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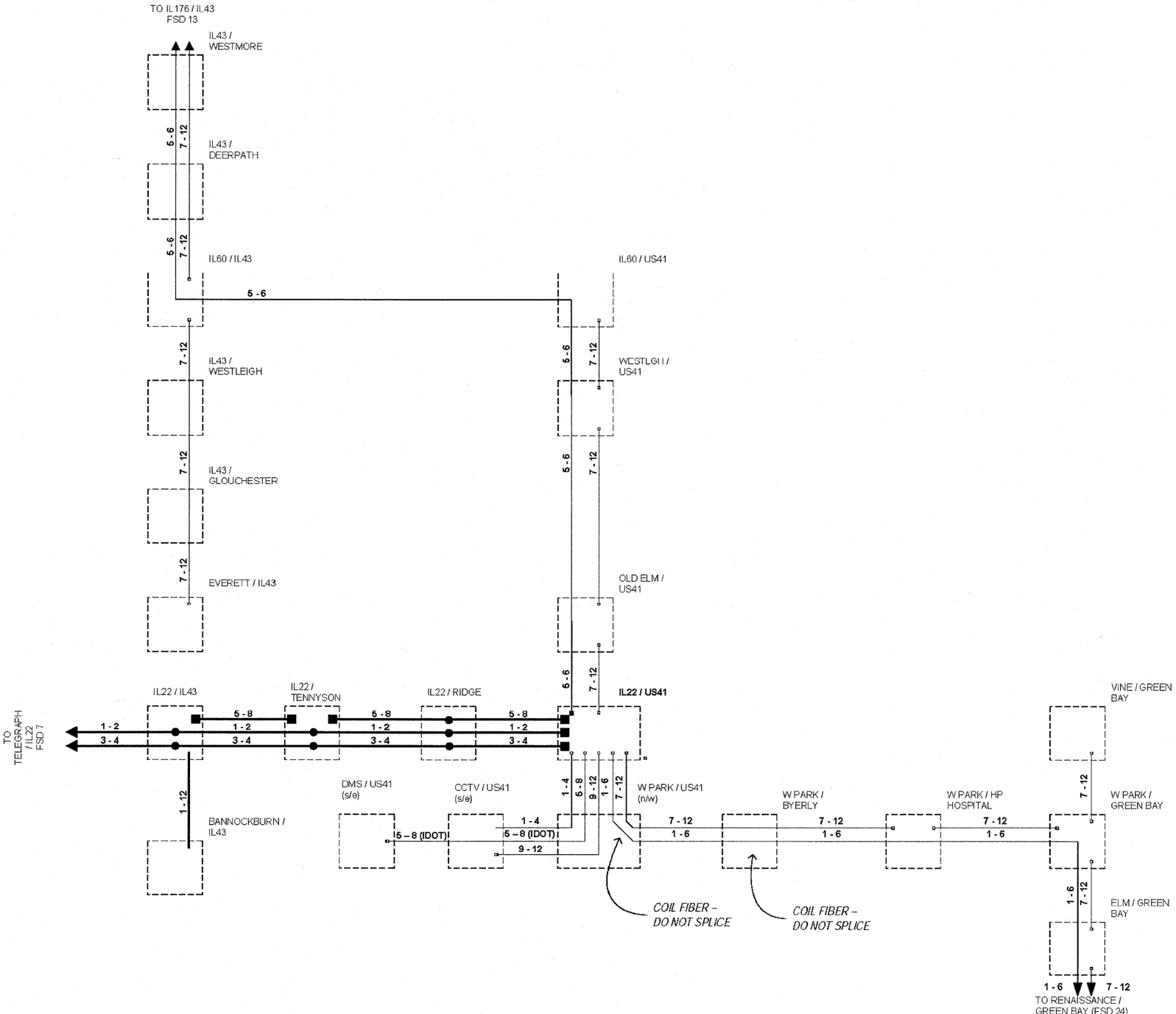
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - JP	REVISED -
	PLOT DATE = 7/28/2010	DATE - 07/20/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 22
FIBER SPLICING DIAGRAM

SCALE: NTS | SHEET NO. 170A OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	170A
		CONTRACT NO. 60860		
		ILLINOIS FED. AID PROJECT		



Delcan
TRANSPORTATION • INFORMATION TECHNOLOGY • WATER

CLIENT:
LakeCounty
Division of Transportation

NO.	DATE	
V5.9	2/10	IL22 FROM I-94 TO US41
FILE NAME	$FILE$	

DESIGN	DJG	1/10
DRAWN	SM/YM	1/10
CHECKED	DJG	2/10
SCALE	NOT TO SCALE	
DATE	6/23/10	

TITLE: LAKE COUNTY ATMS FINAL DESIGN AND INTEGRATION

FIBER SPLICING DIAGRAM - 14
IL 43 - IL 41 / IL60

PROJECT NO.

SHEET 305 OF
DRAWING NO.

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		DRAWN - LP	REVISED -
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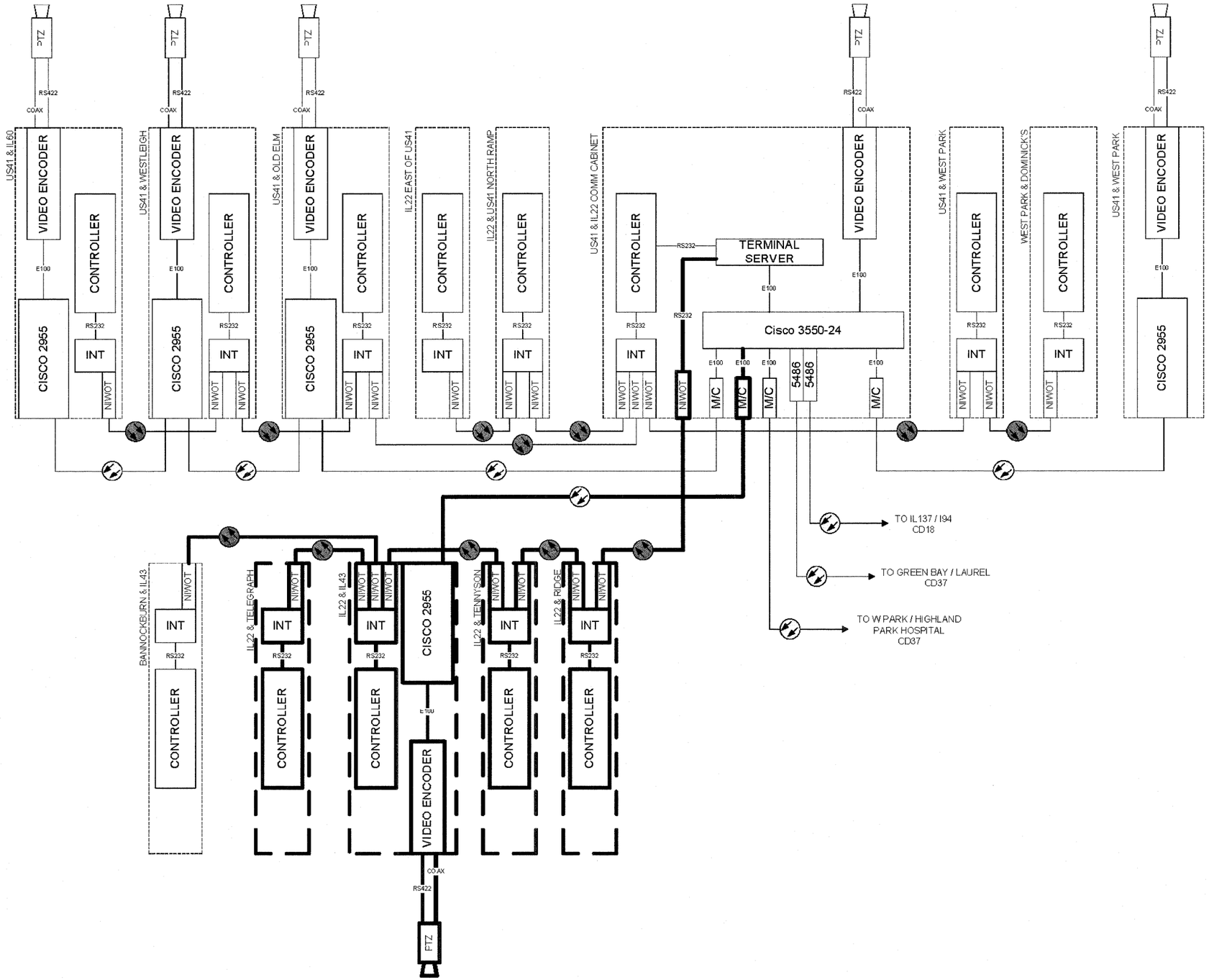
	PLOT DATE = 7/28/2010	DATE - 07/20/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 22
FIBER SPLICING DIAGRAM

SCALE: NTS | SHEET NO. 170B OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	170B
		CONTRACT NO. 60860		
	ILLINOIS FED. AID PROJECT			



EXISTING MULTIMODE CONNECTION
NEW MULTIMODE CONNECTION
EXISTING SINGLEMODE CONNECTION
NEW SINGLEMODE CONNECTION
EXISTING EQUIPMENT
NEW EQUIPMENT

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CLIENT: LakeCounty Division of Transportation

NO.	DATE	
V5.9	2/10	IL 22 FROM I-94 TO US41
FILE NAME	$FILE$	

DESIGN	DJG	1/10
DRAWN	SM/YM	1/10
CHECKED	DJG	2/10
SCALE	NOT TO SCALE	
DATE	6/23/10	

TITLE: LAKE COUNTY ATMS FINAL DESIGN AND INTEGRATION

CABINET DETAIL 12
US41 & IL22

PROJECT NO.
SHEET 65 OF
DRAWING NO.

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	PLOT DATE = 7/28/2010	DATE - 07/20/2010	REVISED -

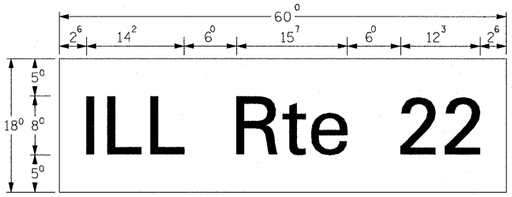
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 22
CABINET DETAIL

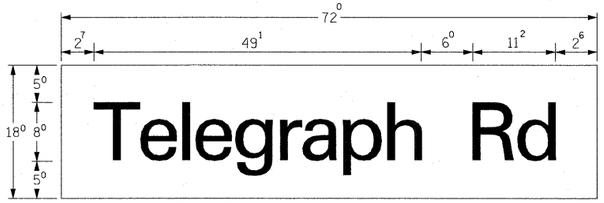
SCALE: NTS | SHEET NO. 170C OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	170C
		CONTRACT NO. 60860		
	ILLINOIS FED. AID PROJECT			

PANEL SIGN DESIGN TYPE 1

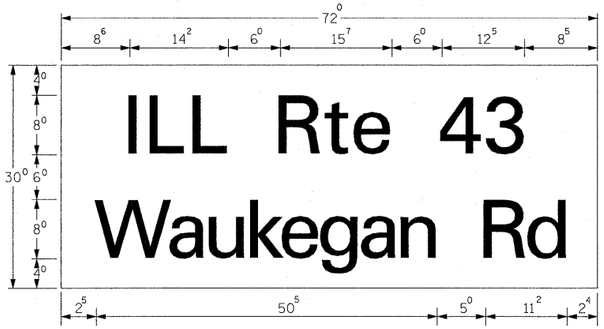


____ Sq. M. each
7.50 Sq. Ft. each
8 Required
Design Series D



____ Sq. M. each
9.0 Sq. Ft. each
2 Required
Design Series D

PANEL SIGN DESIGN TYPE 2



____ Sq. M. each
15.0 Sq. Ft. each
2 Required
Design Series D

NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

GENERAL NOTES

1. 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 877001, 877002, 877011, AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" X 8'-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.
2. ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND. TYPE A SHEETING.
3. THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 8'-0".
4. ALL BORDERS SHALL BE 3/4 " WIDE AND CORNER RADIUS SHALL BE 2 1/4 ".
5. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:

•J.O. HERBERT CO.
MIDLOTHIAN, VA

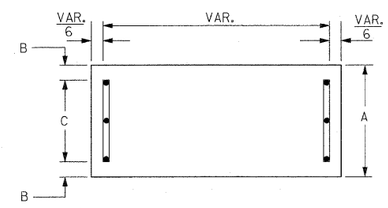
•WESTERN REMAC INC.
WOODRIDGE, IL.

PARTS LISTING:

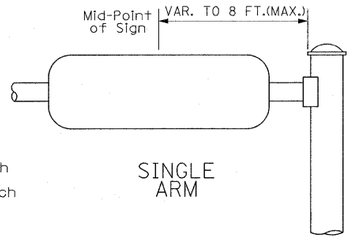
SIGN CHANNEL	PART # HPN053 (MED. CHANNEL)
SIGN SCREWS	1/4" X 14 X 1" H.W.H. #3 SELF TAPPING WITH NEOPREAM WASHER
BRACKETS	PART # HPN034 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

SUPPORTING CHANNELS

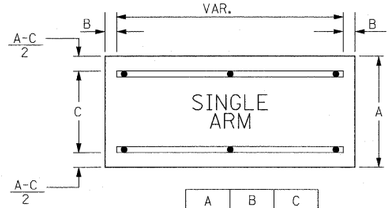


A	B	C
18"	2"	14"

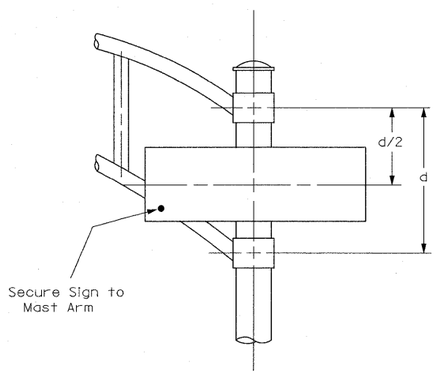


SINGLE ARM

SUPPORTING CHANNELS



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



DUAL ARM

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

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

EXAMPLE, 2 (3) DENOTES 3/8"

FIRST LETTER	SECOND LETTER: acde goq		bhikl mnpru		f w		j		s t		v y		x		z	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
A W X	1^{2}	1^{4}	1^{4}	1^{5}	1^{2}	1^{4}	0^{6}	1^{0}	1^{1}	1^{4}	0^{6}	1^{0}	1^{1}	1^{2}	1^{2}	1^{4}
B	1^{4}	1^{5}	2^{0}	2^{1}	1^{4}	1^{5}	1^{1}	1^{2}	1^{4}	1^{5}	1^{2}	1^{4}	1^{2}	1^{4}	1^{6}	1^{7}
C E G	1^{4}	1^{5}	2^{0}	2^{1}	1^{2}	1^{4}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}
D O Q R	1^{4}	1^{5}	2^{0}	2^{1}	1^{4}	1^{5}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}
F	0^{5}	0^{6}	1^{4}	1^{5}	0^{6}	1^{0}	0^{5}	0^{6}	0^{6}	1^{0}	0^{6}	1^{0}	0^{6}	1^{0}	1^{1}	1^{2}
H I M N	2^{0}	2^{1}	2^{2}	2^{4}	2^{0}	2^{1}	1^{4}	1^{5}	1^{6}	1^{7}	1^{6}	1^{7}	2^{0}	2^{1}	2^{0}	2^{1}
J U	2^{0}	2^{1}	2^{0}	2^{1}	1^{6}	1^{7}	1^{4}	1^{5}	1^{6}	1^{7}	1^{6}	1^{7}	1^{6}	1^{7}	2^{0}	2^{1}
K L	1^{1}	1^{2}	1^{6}	1^{7}	1^{1}	1^{2}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}
P	1^{2}	1^{4}	1^{4}	1^{5}	1^{2}	1^{4}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}	1^{2}	1^{4}
S	1^{2}	1^{4}	1^{6}	1^{7}	1^{2}	1^{4}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}
T	1^{1}	1^{2}	1^{6}	1^{7}	0^{6}	1^{0}	0^{6}	1^{0}	1^{1}	1^{2}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}
V	0^{6}	1^{0}	1^{4}	1^{5}	1^{1}	1^{2}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}
Y	0^{5}	0^{6}	1^{4}	1^{5}	0^{6}	1^{0}	0^{5}	0^{6}	0^{5}	0^{7}	0^{5}	0^{6}	0^{6}	1^{0}	1^{1}	1^{2}
Z	1^{6}	1^{7}	2^{2}	2^{4}	1^{6}	1^{7}	1^{2}	1^{4}	1^{6}	1^{7}	1^{6}	1^{7}	1^{6}	1^{7}	2^{0}	2^{1}

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

FIRST LETTER	SECOND LETTER: acde goq		bhikl mnpru		f w		j		s t		v y		x		z	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
adhgij lmnqu	1^{6}	1^{7}	2^{2}	2^{4}	1^{6}	1^{7}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}	1^{6}	1^{7}	1^{6}	1^{7}
bfkops	1^{2}	1^{4}	1^{6}	1^{7}	1^{1}	1^{2}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}	1^{2}	1^{4}
ce	1^{2}	1^{4}	1^{6}	1^{7}	1^{2}	1^{4}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}
r	0^{6}	1^{0}	1^{2}	1^{4}	0^{6}	1^{0}	0^{3}	0^{3}	0^{5}	0^{6}	0^{5}	0^{6}	0^{6}	1^{0}	0^{6}	1^{0}
tz	1^{2}	1^{4}	1^{6}	1^{7}	1^{2}	1^{4}	0^{6}	1^{0}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}	1^{2}	1^{4}
vy	1^{1}	1^{2}	1^{4}	1^{5}	1^{1}	1^{2}	0^{5}	0^{6}	0^{6}	1^{0}	0^{6}	1^{0}	1^{1}	1^{2}	1^{1}	1^{2}
w	1^{1}	1^{2}	1^{4}	1^{5}	1^{1}	1^{2}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}
x	1^{2}	1^{4}	1^{6}	1^{7}	1^{1}	1^{2}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}

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

FIRST NUMBER	SECOND NUMBER: 0		1		2		3		4		5		6		7		8		9	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	1^{6}	1^{7}	1^{6}	1^{7}	1^{4}	1^{5}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}	1^{6}	1^{7}	1^{2}	1^{4}	1^{6}	1^{7}	1^{6}	1^{7}
1	2^{0}	2^{1}	2^{0}	2^{1}	2^{0}	2^{1}	1^{6}	1^{7}	1^{4}	1^{5}	2^{0}	2^{1}	2^{0}	2^{1}	1^{4}	1^{5}	2^{0}	2^{1}	2^{0}	2^{1}
2 3 4	1^{4}	1^{5}	1^{4}	1^{5}	1^{4}	1^{5}	1^{2}	1^{4}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}	1^{1}	1^{2}	1^{6}	1^{7}	1^{4}	1^{5}
5	1^{4}	1^{5}	1^{4}	1^{5}	1^{4}	1^{5}	1^{1}	1^{2}	1^{1}	1^{2}	1^{4}	1^{5}	1^{4}	1^{5}	1^{1}	1^{2}	1^{4}	1^{5}	1^{4}	1^{5}
6	1^{6}	1^{7}	1^{4}	1^{5}	1^{4}	1^{5}	1^{2}	1^{5}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}	1^{1}	1^{2}	1^{4}	1^{5}	1^{4}	1^{5}
7	1^{2}	1^{4}	1^{2}	1^{4}	1^{4}	1^{5}	1^{2}	1^{5}	0^{5}	0^{6}	1^{2}	1^{4}	1^{4}	1^{5}	1^{1}	1^{2}	1^{4}	1^{5}	1^{2}	1^{4}
8	1^{6}	1^{7}	1^{6}	1^{7}	1^{4}	1^{5}	1^{2}	1^{5}	1^{2}	1^{4}	1^{4}	1^{5}	1^{6}	1^{7}	1^{2}	1^{4}	1^{6}	1^{7}	1^{4}	1^{5}

UPPER AND LOWER CASE LETTER WIDTHS

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

NUMBERS	6 INCH SERIES C	D	8 INCH SERIES C	D
1	1^{2}	1^{4}	1^{5}	2^{0}
2	3^{2}	4^{0}	4^{3}	5^{3}
3	3^{2}	4^{0}	4^{3}	5^{3}
4	3^{5}	4^{3}	4^{7}	5^{7}
5	3^{2}	4^{0}	4^{3}	5^{3}
6	3^{2}	4^{0}	4^{3}	5^{3}
7	3^{2}	4^{0}	4^{3}	5^{3}
8	3^{2}	4^{0}	4^{3}	5^{3}
9	3^{2}	4^{0}	4^{3}	5^{3}
0	3^{4}	4^{2}	4^{5}	5^{5}

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		DRAWN - DC	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - JP	REVISED -
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

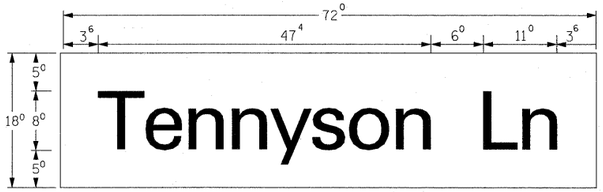
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

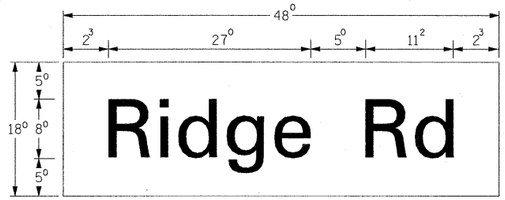
DISTRICT 1
MAST ARM MOUNTED STREET NAME SIGNS

SCALE: NTS | SHEET NO. 171 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	171
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		

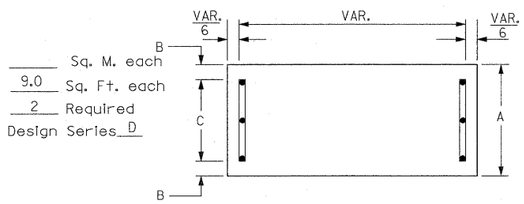
PANEL SIGN DESIGN TYPE 1





NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS

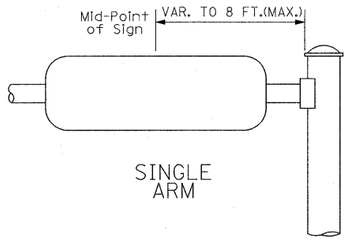
SUPPORTING CHANNELS



A	B	C
18″	2″	14″

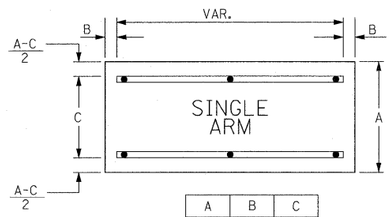
____ Sq. M. each
9.0 Sq. Ft. each
2 Required
Design Series D

____ Sq. M. each
6.0 Sq. Ft. each
4 Required
Design Series D

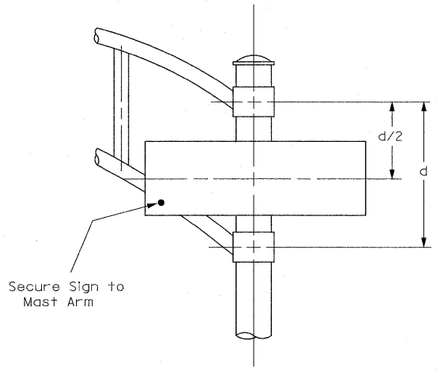


SINGLE ARM

SUPPORTING CHANNELS



A	B	C
18″	2″	12″
30″	2″	22″



DUAL ARM

GENERAL NOTES

1. 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 877001, 877002, 877011, AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2′-6″ X 8′-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.
2. ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND. TYPE A SHEETING.
3. THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 8′-0″.
4. ALL BORDERS SHALL BE 3/4 ″ WIDE AND CORNER RADIUS SHALL BE 2 1/4 ″.
5. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:

*J.O. HERBERT CO.
MIDLOTHIAN, VA

*WESTERN REMAC INC.
WOODRIDGE, IL.

PARTS LISTING:

SIGN CHANNEL	PART # HPN053 (MED. CHANNEL)
SIGN SCREWS	1/4″ X 14 X 1″ H.W.H. #3 SELF TAPPING WITH NEOPREAM 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/BRACKET OF THE ABOVE PRODUCT.

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

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

EXAMPLE, 2 (3) DENOTES 3/8″

FIRST LETTER \ SECOND LETTER	acde goq		bhikl mnpru		f w		j		s t		v y		x		z	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
A W X	1^{2}	1^{4}	1^{4}	1^{5}	1^{2}	1^{4}	0^{6}	1^{0}	1^{1}	1^{4}	0^{6}	1^{0}	1^{1}	1^{2}	1^{2}	1^{4}
B	1^{4}	1^{5}	2^{0}	2^{1}	1^{4}	1^{5}	1^{1}	1^{2}	1^{4}	1^{5}	1^{2}	1^{4}	1^{2}	1^{4}	1^{6}	1^{7}
C E G	1^{4}	1^{5}	2^{0}	2^{1}	1^{2}	1^{4}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}
D O Q R	1^{4}	1^{5}	2^{0}	2^{1}	1^{4}	1^{5}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}
F	0^{5}	0^{6}	1^{4}	1^{5}	0^{6}	1^{0}	0^{5}	0^{6}	0^{6}	1^{0}	0^{6}	1^{0}	0^{6}	1^{0}	1^{1}	1^{2}
H I M N	2^{0}	2^{1}	2^{2}	2^{4}	2^{0}	2^{1}	1^{4}	1^{5}	1^{6}	1^{7}	1^{6}	1^{7}	2^{0}	2^{1}	2^{0}	2^{1}
J U	2^{0}	2^{1}	2^{0}	2^{1}	1^{6}	1^{7}	1^{4}	1^{5}	1^{6}	1^{7}	1^{6}	1^{7}	1^{6}	1^{7}	2^{0}	2^{1}
K L	1^{1}	1^{2}	1^{6}	1^{7}	1^{1}	1^{2}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}
P	1^{2}	1^{4}	1^{4}	1^{5}	1^{2}	1^{4}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}	1^{2}	1^{4}
S	1^{2}	1^{4}	1^{6}	1^{7}	1^{2}	1^{4}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}
T	1^{1}	1^{2}	1^{6}	1^{7}	0^{6}	1^{0}	0^{6}	1^{0}	1^{1}	1^{2}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}
V	0^{6}	1^{0}	1^{4}	1^{5}	1^{1}	1^{2}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}
Y	0^{5}	0^{6}	1^{4}	1^{5}	0^{6}	1^{0}	0^{5}	0^{6}	0^{5}	0^{7}	0^{5}	0^{6}	0^{6}	1^{0}	1^{1}	1^{2}
Z	1^{6}	1^{7}	2^{2}	2^{4}	1^{6}	1^{7}	1^{2}	1^{4}	1^{6}	1^{7}	1^{6}	1^{7}	1^{6}	1^{7}	2^{0}	2^{1}

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

FIRST LETTER \ SECOND LETTER	acde goq		bhikl mnpru		f w		j		s t		v y		x		z	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
adhgij lmnqu	1^{6}	1^{7}	2^{2}	2^{4}	1^{6}	1^{7}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}	1^{6}	1^{7}	1^{6}	1^{7}
bfkops	1^{2}	1^{4}	1^{6}	1^{7}	1^{1}	1^{2}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}	1^{2}	1^{4}
ce	1^{2}	1^{4}	1^{6}	1^{7}	1^{2}	1^{4}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}
r	0^{6}	1^{0}	1^{2}	1^{4}	0^{6}	1^{0}	0^{3}	0^{3}	0^{5}	0^{6}	0^{5}	0^{6}	0^{6}	1^{0}	0^{6}	1^{0}
tz	1^{2}	1^{4}	1^{6}	1^{7}	1^{2}	1^{4}	0^{6}	1^{0}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}	1^{2}	1^{4}
vy	1^{1}	1^{2}	1^{4}	1^{5}	1^{1}	1^{2}	0^{5}	0^{6}	0^{6}	1^{0}	0^{6}	1^{0}	1^{1}	1^{2}	1^{1}	1^{2}
w	1^{1}	1^{2}	1^{4}	1^{5}	1^{1}	1^{2}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}
x	1^{2}	1^{4}	1^{6}	1^{7}	1^{1}	1^{2}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}

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

FIRST NUMBER \ SECOND NUMBER	0		1		2		3		4		5		6		7		8		9	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	1^{6}	1^{7}	1^{6}	1^{7}	1^{4}	1^{5}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}	1^{6}	1^{7}	1^{2}	1^{4}	1^{6}	1^{7}	1^{6}	1^{7}
1	2^{0}	2^{1}	2^{0}	2^{1}	2^{0}	2^{1}	1^{6}	1^{7}	1^{4}	1^{5}	2^{0}	2^{1}	2^{0}	2^{1}	1^{4}	1^{5}	2^{0}	2^{1}	2^{0}	2^{1}
2 3 4	1^{4}	1^{5}	1^{4}	1^{5}	1^{4}	1^{5}	1^{2}	1^{4}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}	1^{1}	1^{2}	1^{6}	1^{7}	1^{4}	1^{5}
5	1^{4}	1^{5}	1^{4}	1^{5}	1^{4}	1^{5}	1^{1}	1^{2}	1^{1}	1^{2}	1^{4}	1^{5}	1^{4}	1^{5}	1^{1}	1^{2}	1^{4}	1^{5}	1^{4}	1^{5}
6	1^{6}	1^{7}	1^{4}	1^{5}	1^{4}	1^{5}	1^{2}	1^{5}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}	1^{1}	1^{2}	1^{4}	1^{5}	1^{4}	1^{5}
7	1^{2}	1^{4}	1^{2}	1^{4}	1^{4}	1^{5}	1^{2}	1^{5}	0^{5}	0^{6}	1^{2}	1^{4}	1^{4}	1^{5}	1^{1}	1^{2}	1^{4}	1^{5}	1^{2}	1^{4}
8	1^{6}	1^{7}	1^{6}	1^{7}	1^{4}	1^{5}	1^{2}	1^{5}	1^{2}	1^{4}	1^{4}	1^{5}	1^{6}	1^{7}	1^{2}	1^{4}	1^{6}	1^{7}	1^{4}	1^{5}

UPPER AND LOWER CASE LETTER WIDTHS

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

NUMBER	6 INCH SERIES C	D	8 INCH SERIES C	D
1	1^{2}	1^{4}	1^{5}	2^{0}
2	3^{2}	4^{0}	4^{3}	5^{3}
3	3^{2}	4^{0}	4^{3}	5^{3}
4	3^{5}	4^{3}	4^{7}	5^{7}
5	3^{2}	4^{0}	4^{3}	5^{3}
6	3^{2}	4^{0}	4^{3}	5^{3}
7	3^{2}	4^{0}	4^{3}	5^{3}
8	3^{2}	4^{0}	4^{3}	5^{3}
9	3^{2}	4^{0}	4^{3}	5^{3}
0	3^{4}	4^{2}	4^{5}	5^{5}

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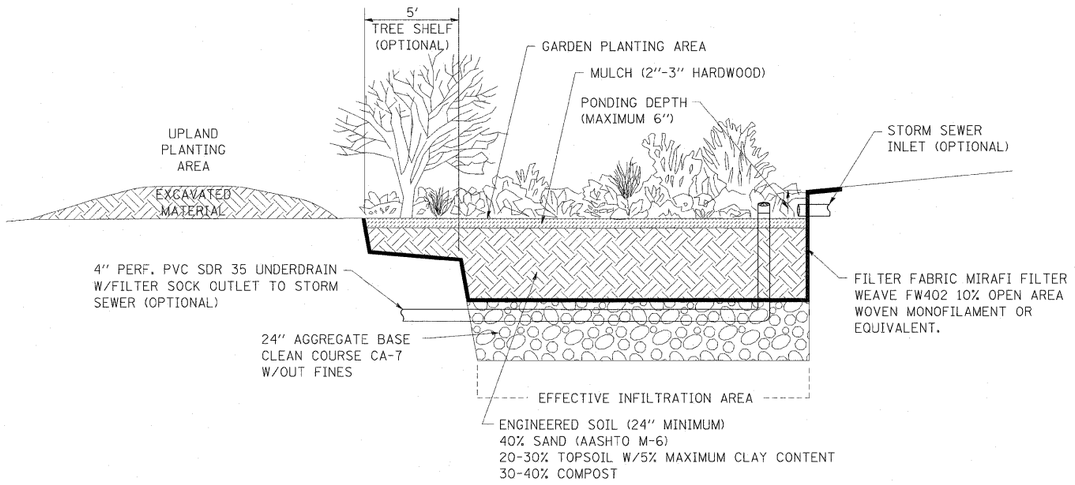
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
MAST ARM MOUNTED STREET NAME SIGNS

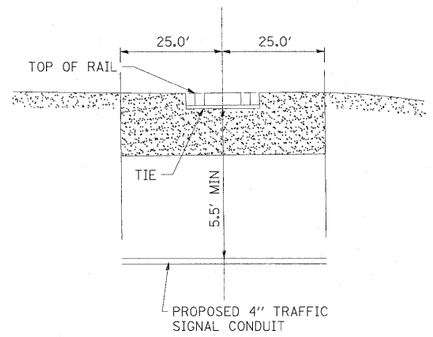
SCALE: NTS | SHEET NO. 172 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	172
		CONTRACT NO. 60860		
	ILLINOIS FED. AID PROJECT			

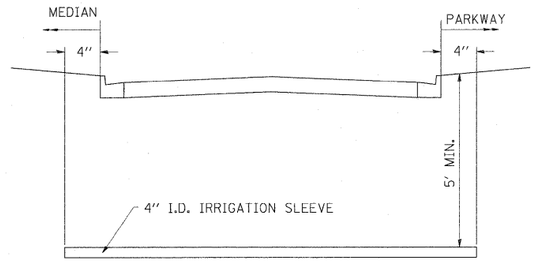


RAIN GARDEN/BIOSWALE CROSS SECTION

- ENGINEERED SOIL MUST BE TESTED FOR TEXTURE, PH AND ORGANIC MATTER PRIOR TO INSTALLATION.



TRAFFIC SIGNAL CONDUIT CROSSING RAILROAD TRACKS

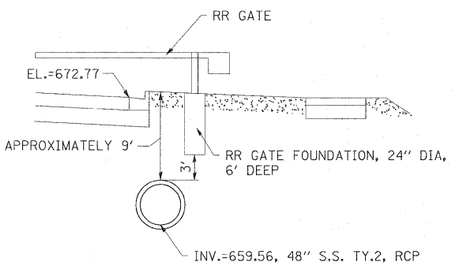


(NOT TO SCALE)

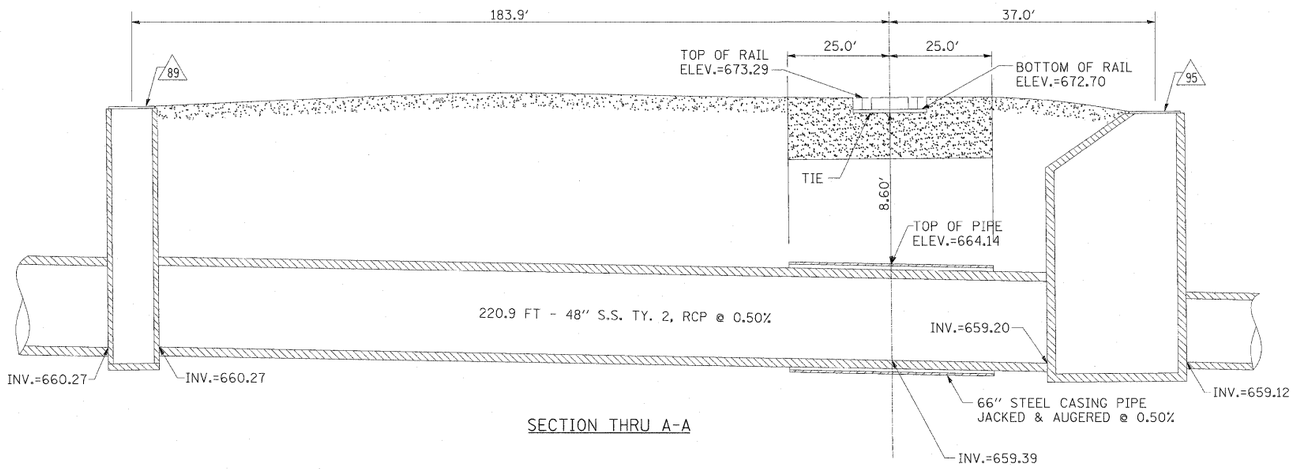
NOTES:

1. THE MATERIAL FOR THE IRRIGATION SLEEVE SHALL BE 4" PVC SCHEDULE 80.
2. THE 4" PVC SHALL BE INSTALLED PRIOR TO THE PLACEMENT OF THE SUBGRADE AND SHALL BE BACKFILLED IN ACCORDANCE WITH ARTICLE 550.07.
3. THE ENDS OF THE SLEEVES SHALL BE MARKED WITH A STEEL ROD FROM THE INVERT TO 1 FOOT BELOW FINISHED GRADE.
4. THE "IRRIGATION SLEEVES" WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT, AND SHALL INCLUDE ALL MATERIALS AND BACKFILL REQUIRED TO COMPLETE THE WORK AS SHOWN.
5. THE ENDS OF THE SLEEVES SHOULD BE CAPPED.

IRRIGATION SLEEVE DETAIL



SECTION THRU B-B



SECTION THRU A-A

STORM SEWER JACKED & AUGERED UNDER THE RAILROAD TRACKS

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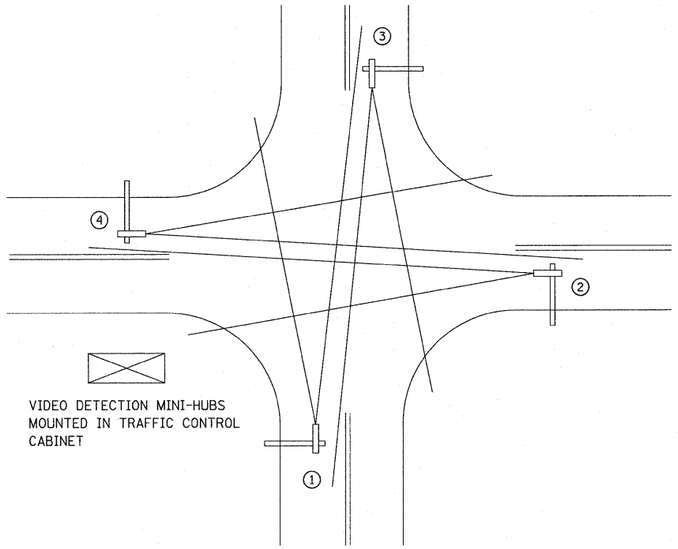
	PLOT DATE = 5/15/2010	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 22
DETAILS

SCALE: NTS | SHEET NO. 173 OF 232 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	173
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		



TYPICAL VIDEO VEHICLE DETECTION SYSTEM

(NOT TO SCALE)

(4) MACHINE VISION PROCESSOR ASSEMBLIES AND BRACKETS ① ② ③ ④
POWER CABLE TO EACH MACHINE VISION PROCESSOR (24 VAC)

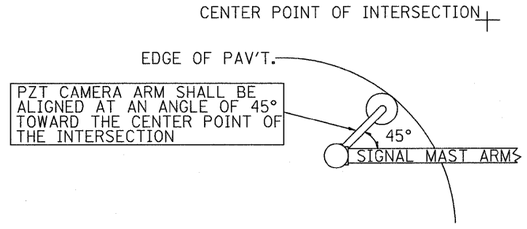
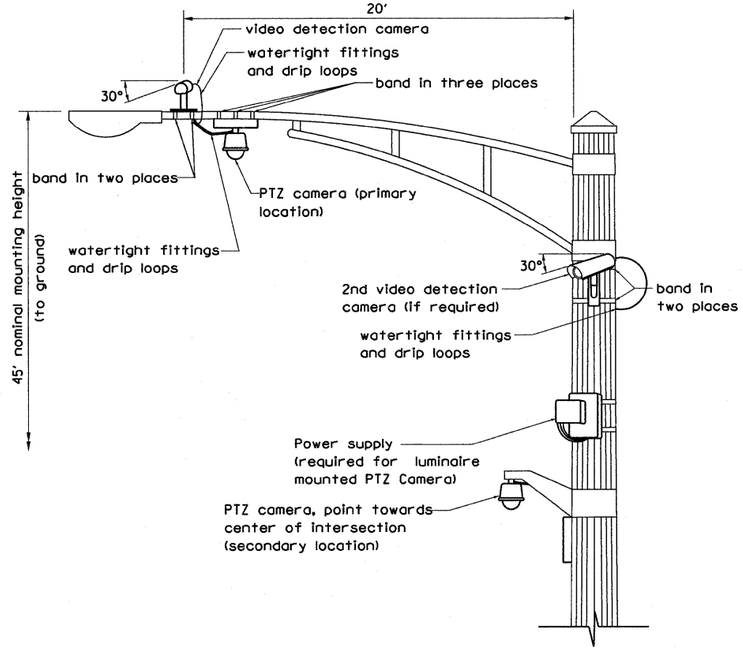


IMAGE SENSOR MOUNTING DETAILS

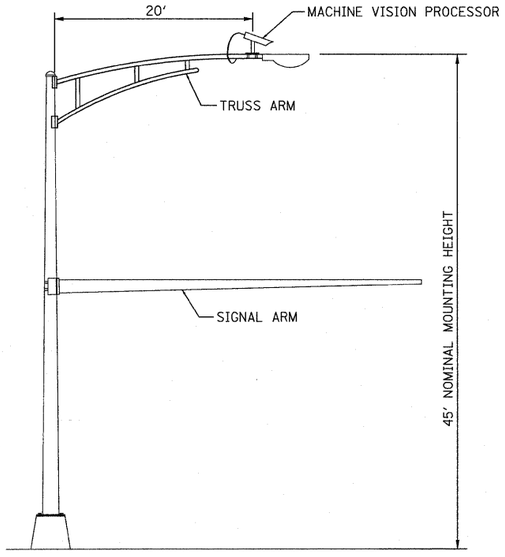
(NO SCALE)



VIDEO DETECTION CAMERA(S) AND DOME (PTZ) CAMERA MOUNTING DETAIL

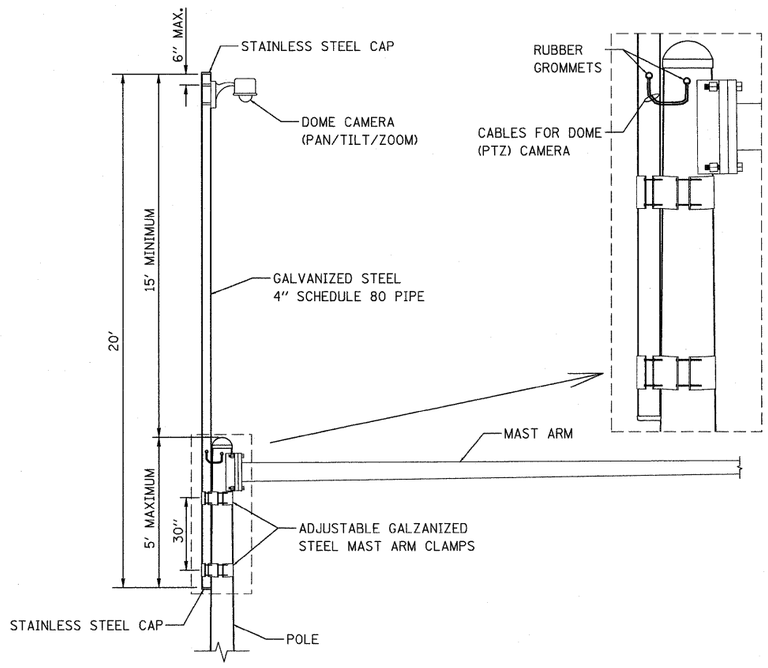
(NOT TO SCALE)

NOTES FOR SINGLE, DUAL AND MULTIPLE MVP MOUNTING:
- MOUNT LUMINAIRE MOUNTING BRACKET AS HIGH AS POSSIBLE.
- AIM BRACKET TOWARD DIRECTION OF TRAFFIC TO BE DETECTED.
- MOUNT MACHINE VISION PROCESSOR AIMING DOWN AT 30 DEGREE ANGLE.



COMBINATION MAST ARM ASSEMBLY AND POLE DIMENSIONS

(NOT TO SCALE)



CAMERA MOUNTING ASSEMBLY DETAIL

(NOT TO SCALE)

REVISIONS	DATE
Mounting Details Revised	5/08
2nd Camera Locat. added	1/1409

LakeCounty Division of Transportation

APPROVED BY: A. KHAWAJA
DATE: APRIL 1, 2007

VIDEO DETECTION DETAILS

LC8900

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	$USRN$ $$DAT$$$$

LakeCounty Division of Transportation

VIDEO DETECTION DETAILS

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CH				

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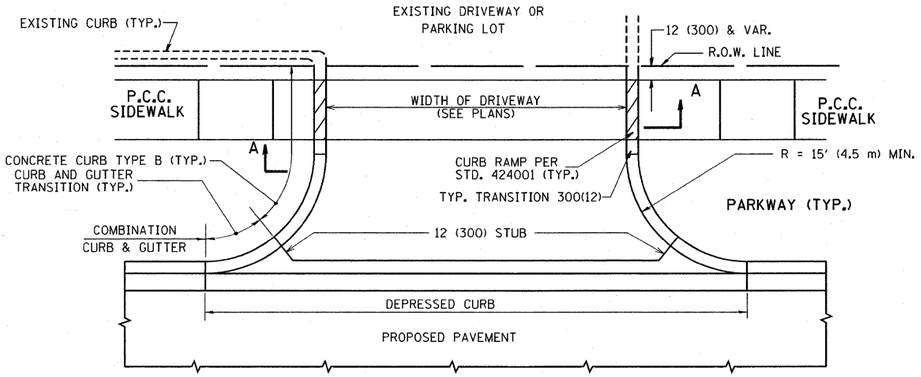
		DRAWN - LP	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - JP	REVISED -
	PLOT DATE = 7/28/2010	DATE - 07/20/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

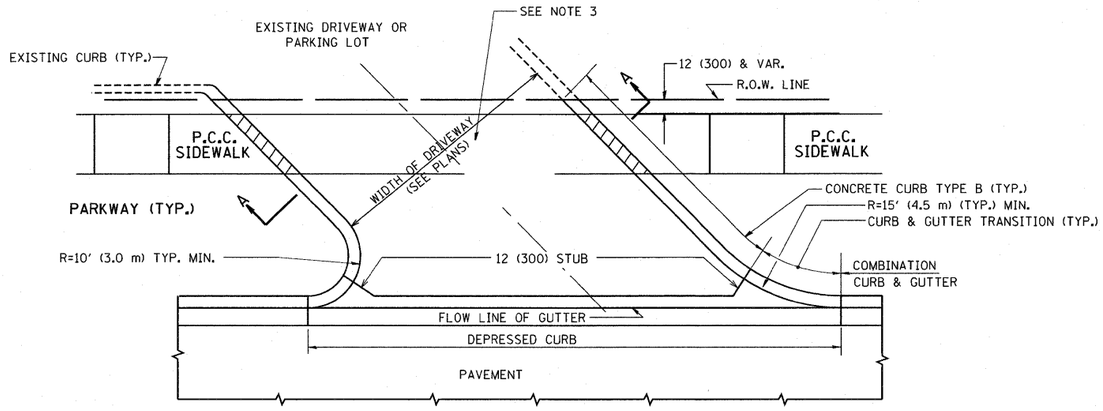
IL. ROUTE 22
VIDEO DETECTION DETAILS

SCALE: NTS | SHEET NO. 173A OF 232 SHEETS | STA. | TO STA.

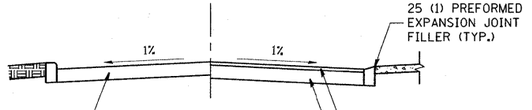
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	173A
		CONTRACT NO. 60860		
	ILLINOIS	FED. AID PROJECT		



WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



SECTION A-A

RIGID DRIVEWAY

COMMERCIAL ENTRANCE (CE):
P.C.C. DRIVEWAY PAVEMENT 8 (200)
MEASURED IN SQ. YD. (m^2)

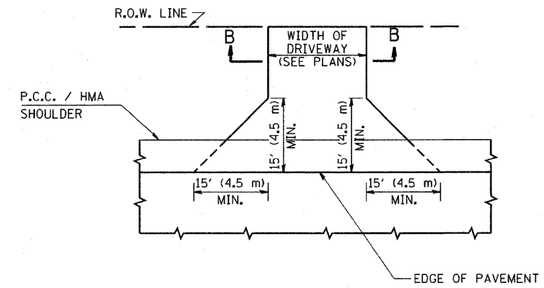
NON-COMMERCIAL ENTRANCE (PE):
P.C.C. DRIVEWAY PAVEMENT 6 (150
MEASURED IN SQ. YD. (m^2)

HMA DRIVEWAY

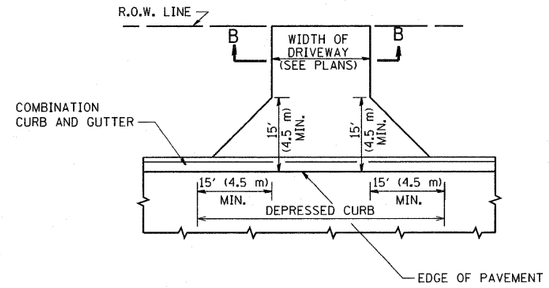
HMA SURFACE COURSE,
MIX "C", N50, 2 (50)
MEASURED IN TONS (METRIC TONS)

CE: HMA BASE COURSE, 8 (200)
MEASURED IN SQ. YD. (m^2).

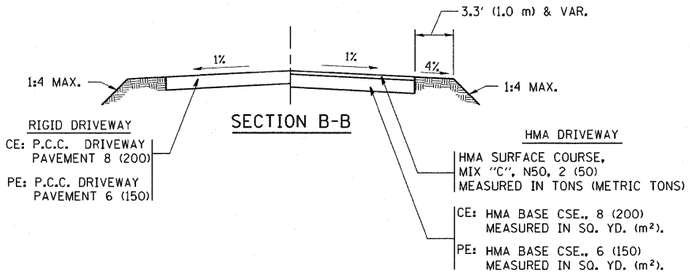
PE: HMA BASE COURSE, 6 (150)
MEASURED IN SQ. YD. (m^2).



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



SECTION B-B

RIGID DRIVEWAY

CE: P.C.C. DRIVEWAY PAVEMENT 8 (200)

PE: P.C.C. DRIVEWAY PAVEMENT 6 (150)

HMA DRIVEWAY

HMA SURFACE COURSE,
MIX "C", N50, 2 (50)
MEASURED IN TONS (METRIC TONS)

CE: HMA BASE CSE., 8 (200)
MEASURED IN SQ. YD. (m^2).

PE: HMA BASE CSE., 6 (150)
MEASURED IN SQ. YD. (m^2).

RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE,
MIX "C", N50, 2 (50)
MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE B, 8 (200)
MEASURED IN SQ. YD. (m^2).

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

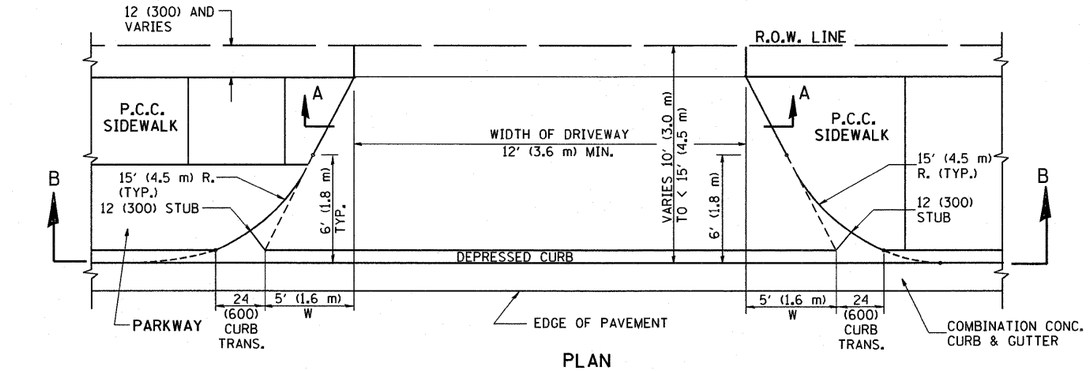
COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

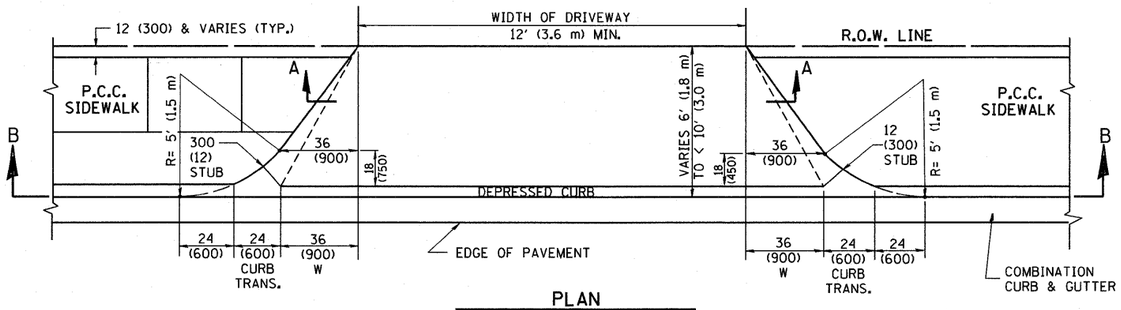
FILE NAME = c:\projects\diststd22x34\bd01.dgn	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - M. GOMEZ 04-06-01	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**DRIVEWAY DETAILS – DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)**
		DRAWN -	REVISED - P. LaFLUER 04-15-03		
	PLOT SCALE = 49.9999 ' / IN.	CHECKED -	REVISED - R. BORO 01-01-07		
	PLOT DATE = 6/12/2008	DATE - 11-04-95	REVISED - R. BORO 06-11-08		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	174
	BD0156-07 (BD-01)	CONTRACT NO. 60860		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



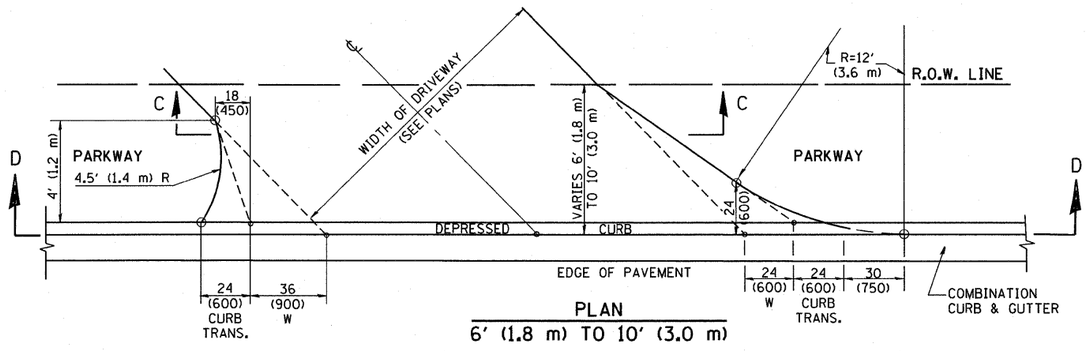
PLAN

10' (3.0 m) TO < 15' (4.5 m)



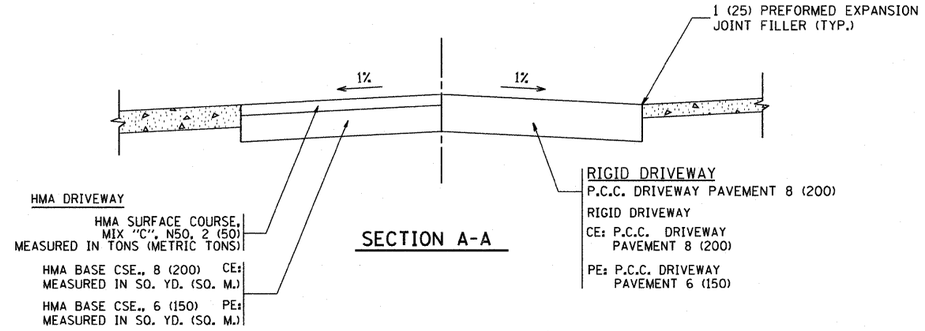
PLAN

6' (1.8 m) TO < 10' (3.0 m)

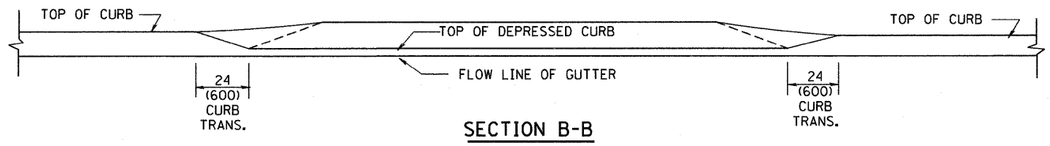


PLAN

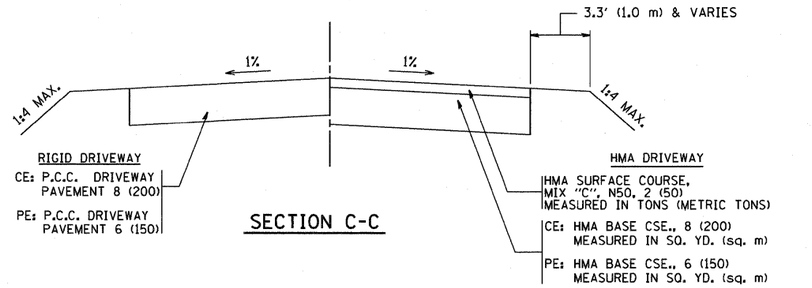
6' (1.8 m) TO 10' (3.0 m)



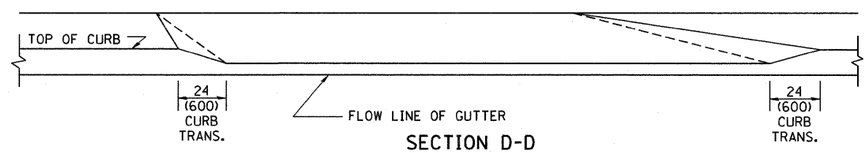
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

GENERAL NOTES

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

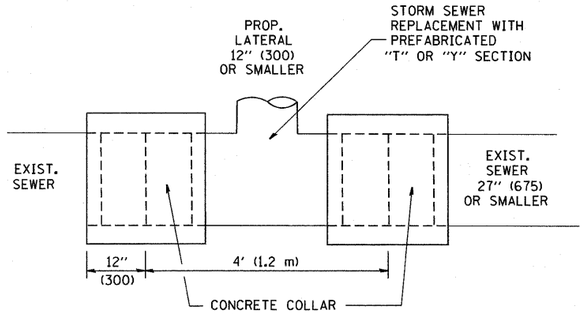
FILE NAME = W:\diststd\22x34\bd02.dgn	USER NAME = gaglionobt	DESIGNED - R. SHAH	REVISED - T. HOLTZ 04-08-97
		DRAWN -	REVISED - M. GOMEZ 04-06-01
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - P. LaFLEUR 04-15-03
	PLOT DATE = 1/4/2008	DATE - 11-06-95	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)

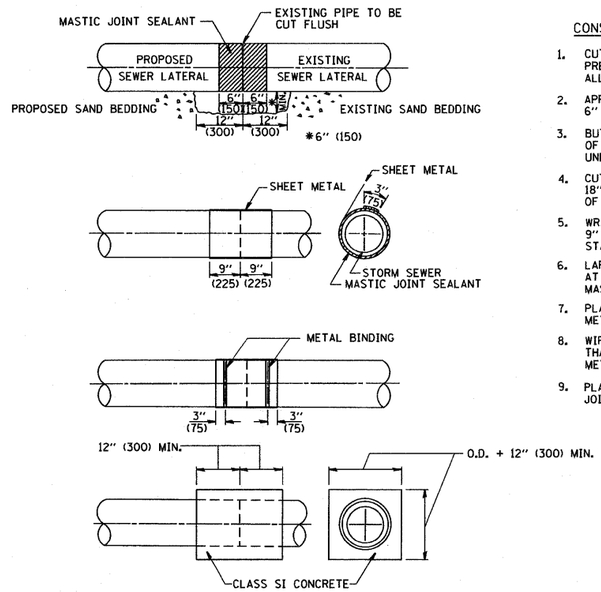
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	175
	BD400-02 (BD-02)	CONTRACT NO. 60860		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER
OF 27" (675) OR SMALLER

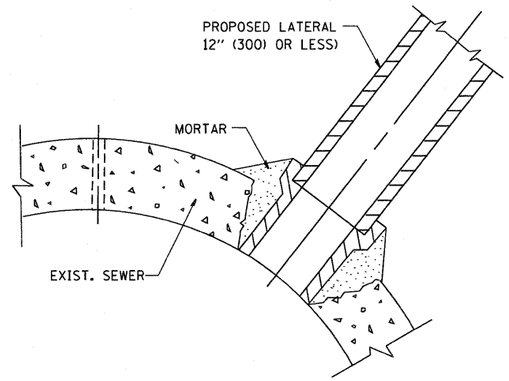


DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

1. CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6' (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERANCE OF THE PIPE PLUS 3" (75) LONG.
5. WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
6. LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
8. WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
9. PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"

PROPOSED LATERAL
CONNECTION TO EXISTING SEWER
OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.

II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:

A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".

B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\bd07.dgn	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - M. DE YONG 05-08-92
		DRAWN -	REVISED - R. SHAH 09-09-94
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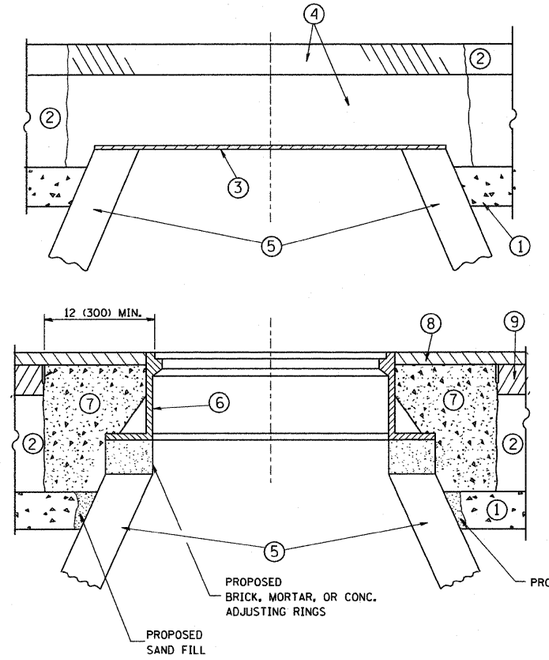
	PLOT DATE = 1/4/2008	DATE - 07-25-90	REVISED - R. SHAH 06-12-96

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	176
	BD500-01 (BD-7)	CONTRACT NO. 60860		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.

B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.

C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.

D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1½ (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.

B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.

C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

LEGEND

1. SUB-BASE GRANULAR MATERIAL
2. EXISTING PAVEMENT
3. 36 (900) DIAMETER METAL PLATE
4. PROPOSED CRUSHED STONE AND HMA SURFACE MIX
5. EXISTING STRUCTURE
6. FRAME AND LID (SEE NOTES)
7. CLASS SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
8. PROPOSED HMA SURFACE COURSE
9. PROPOSED HMA BINDER COURSE

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL"

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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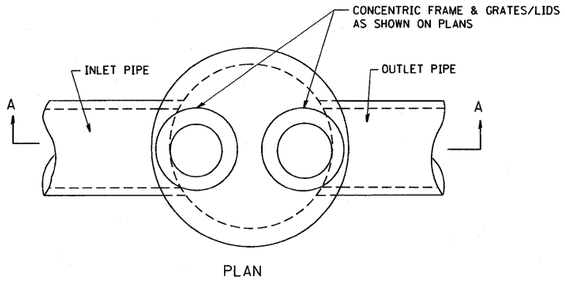
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

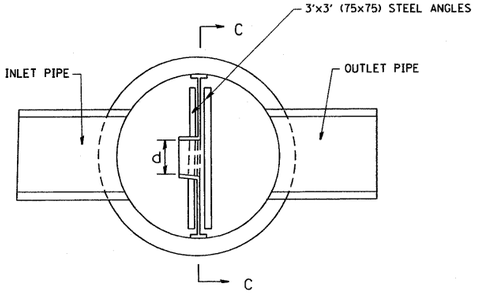
DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

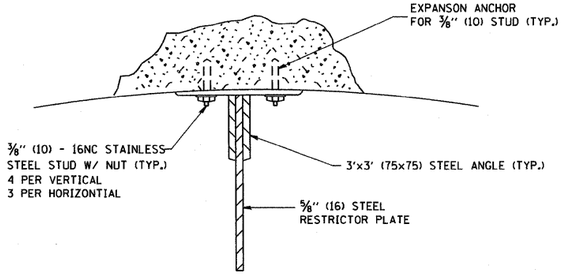
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	177
	BD600-03 (BD-8)	CONTRACT NO. 60860		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



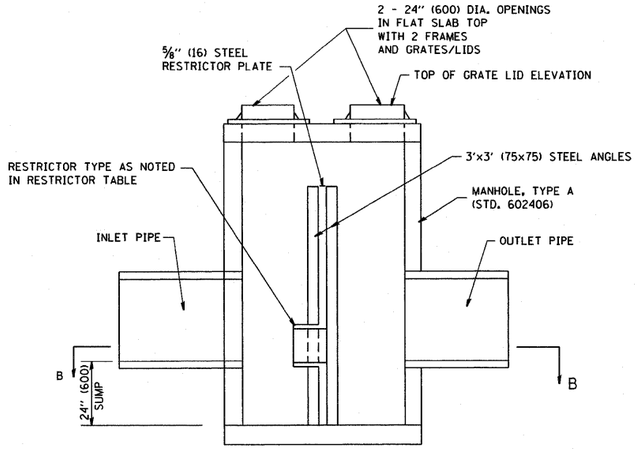
PLAN



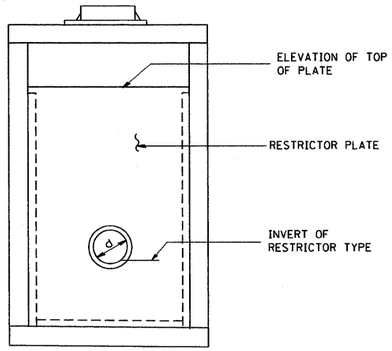
SECTION B-B



ANGLE FASTENER DETAIL



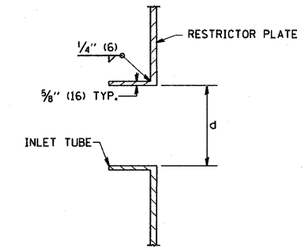
SECTION A-A



SECTION C-C

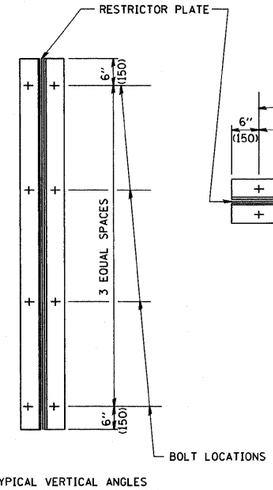
NOTES:

1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
3. BASIS OF PAYMENT: "MANHOLES ,TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH

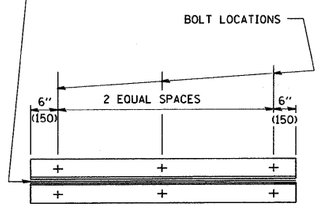


INLET TUBE DETAIL

STATION	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER in. (mm) (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW
49+64.13	5'	1 CL	TY 2	17"	677.77	682.00



TYPICAL VERTICAL ANGLES LOOKING TOWARD MANHOLE WALL



TYPICAL HORIZONTIAL ANGLES LOOKING TOWARD BOTTOM OF MANHOLE

TOTAL BOLTS REQUIRED: 22

NOTE:

1. ANGLES SHOULD BE 3x3x3/8 (75x75x75)
2. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
3. HORIZONTIAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH: 1/2 TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-1/2 DIA.	LENGTH: 2-1/2 DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

STEEL ANGLE BOLTING DETAILS

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\bd12.dgn	USER NAME = gaglionobt	DESIGNED - R. SHAH	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - E. GOMEZ 08-28-00
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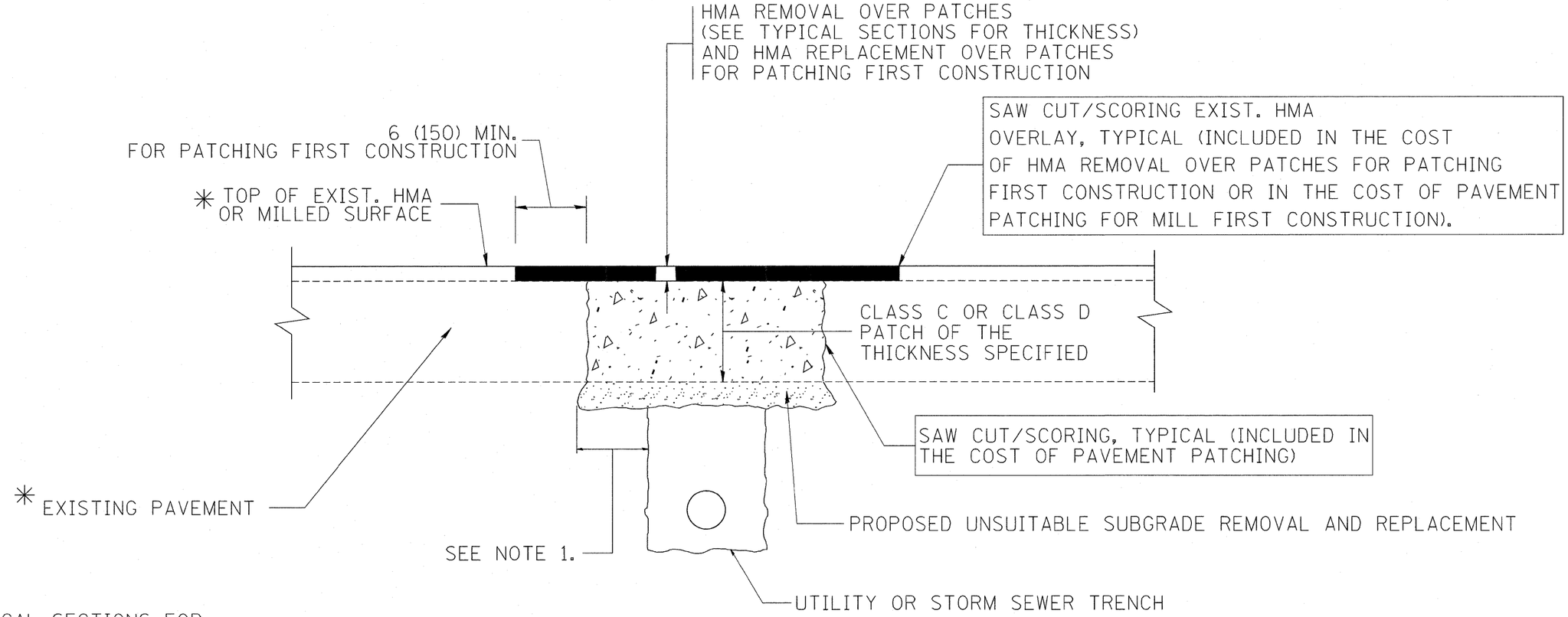
	PLOT DATE = 1/4/2008	DATE - 09-09-94	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MANHOLE WITH RESTRICTOR PLATE

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	178
	BD600-04 (BD-12)	CONTRACT NO. 60860		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

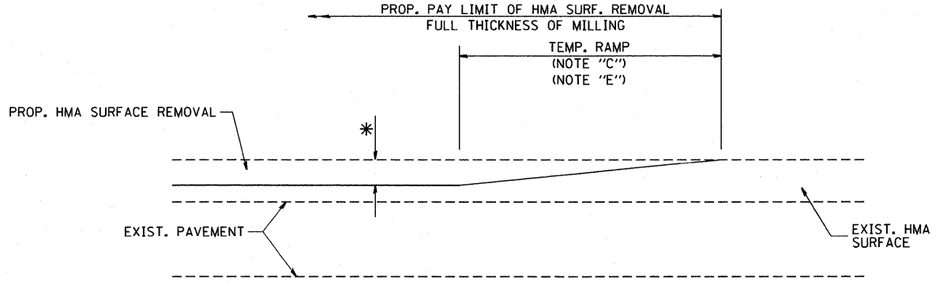
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

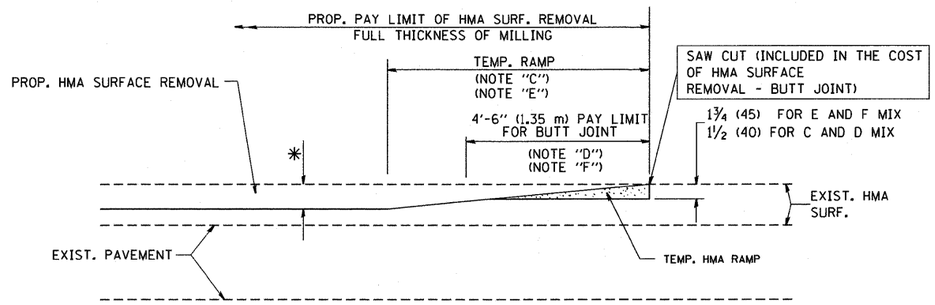
FILE NAME = c:\projects\diststd22x34\bd22.dgn	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - R. BORO 01-01-07			337	20R-4	LAKE	232	179
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - R. BORO 09-04-07			BD400-04 (BD-22)		CONTRACT NO. 60860		
	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

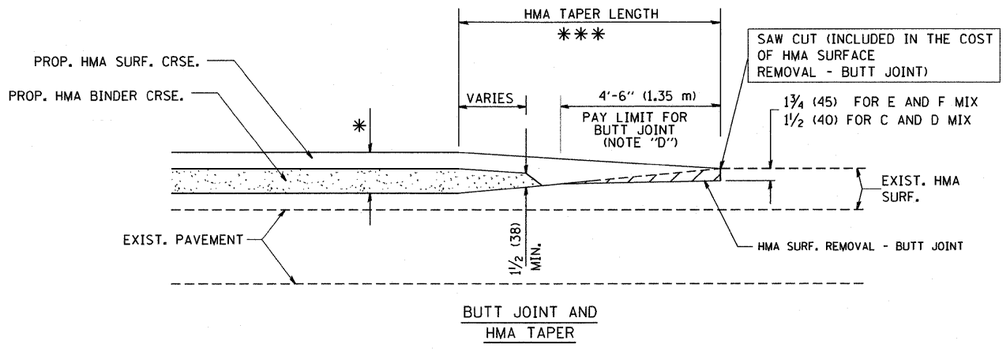


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

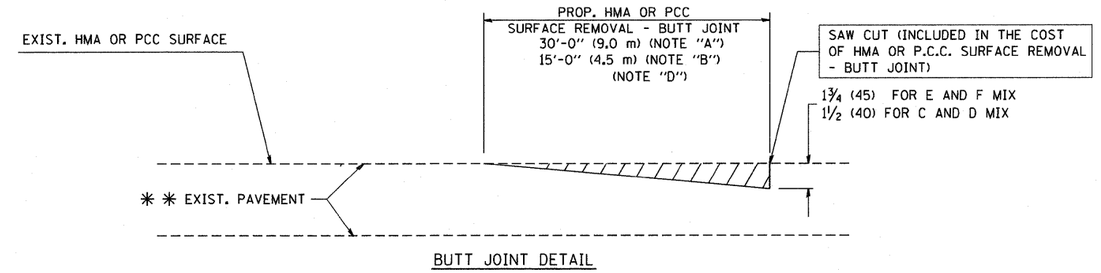
OPTION 2

TYPICAL TEMPORARY RAMP

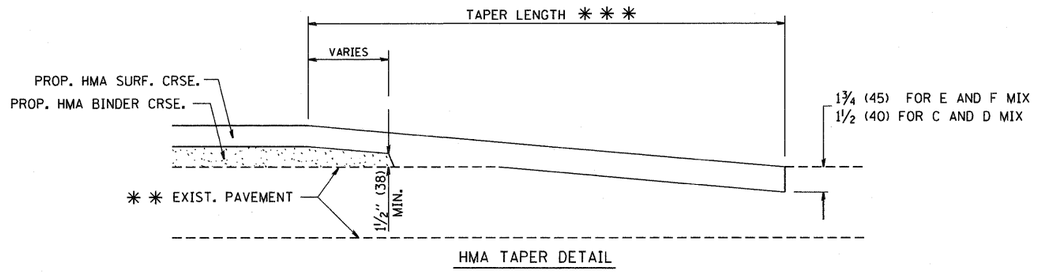


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.

B: MINOR SIDE ROADS.

C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.

F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT

G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

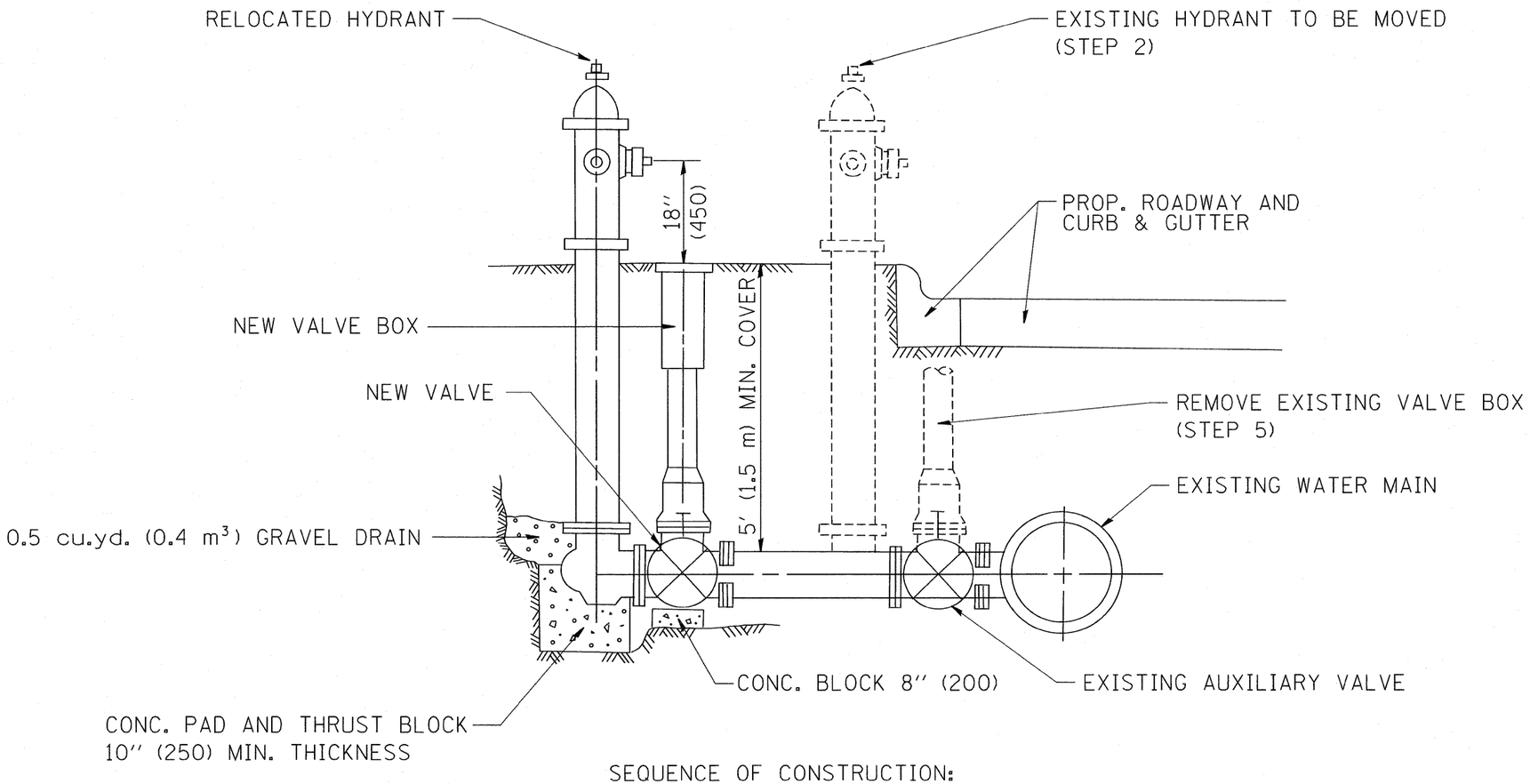
FILE NAME = W:\diststd\22x34\bd32.dgn	USER NAME = gaglionobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	180
	BD400-05 BD32	CONTRACT NO. 60860		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



SEQUENCE OF CONSTRUCTION:

1. CLOSE EXISTING VALVE.
2. REMOVE EXISTING HYDRANT.
3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
4. RELOCATE EXISTING HYDRANT.
5. OPEN EXISTING VALVE, REMOVE BOX.
6. BACKFILL.
7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

ALL WORK TO BE DONE IN ACCORDANCE WITH ARTICLE 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

FIRE HYDRANT TO BE MOVED

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\bd36.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - R. SHAH 09-09-94
		DRAWN -	REVISED - R. SHAH 10-25-94
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIRE HYDRANT TO BE MOVED

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

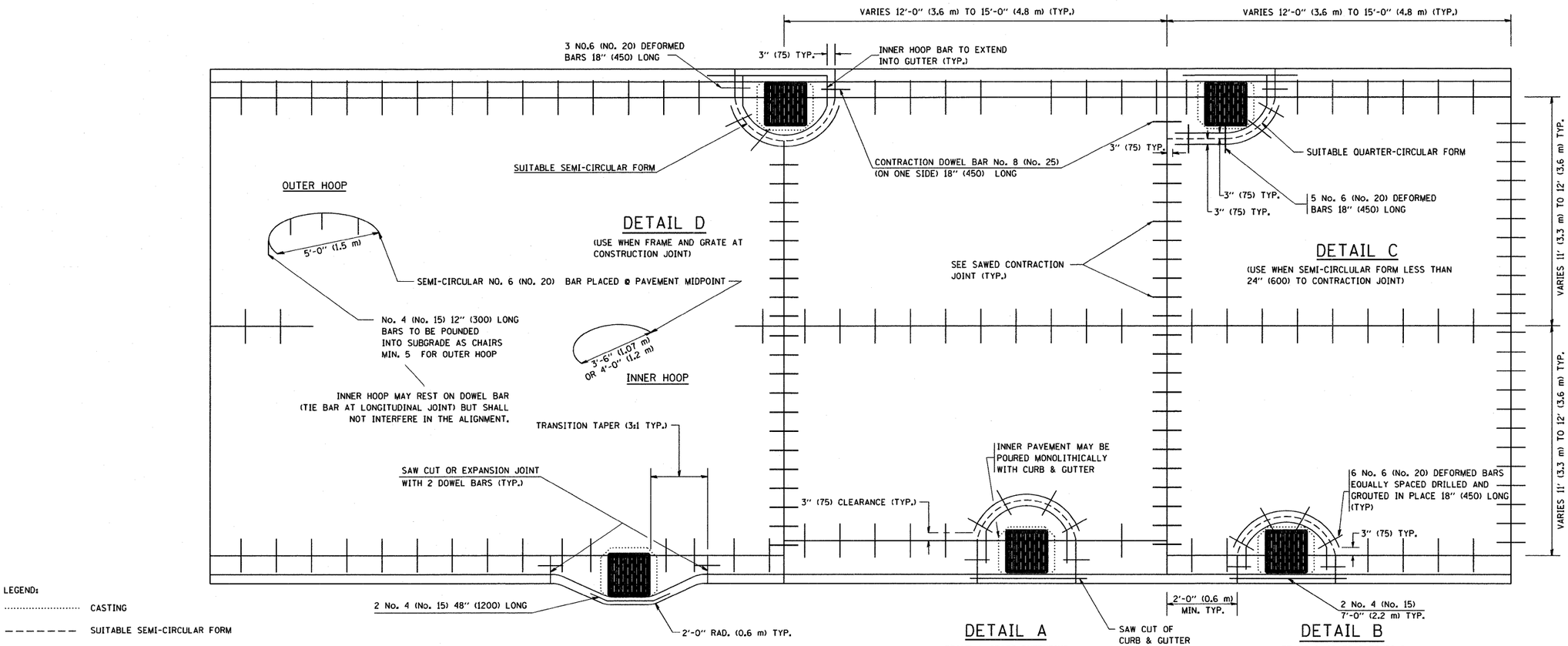
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	181
	BD-36	CONTRACT NO. 60860		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

FRAME EXTENSION INTO PAVEMENT	INNER HOOP REINFORCEMENT DIAMETER	SEMI CIRCULAR FORM DIAMETER	OUTER HOOP REINFORCEMENT DIAMETER
UP TO 8" (200)	3'-6" (1.1 m)	4'-0" (1.2 m)	5'-0" (1.5 m)
> 8" (200) TO 14" (360)	4'-0" (1.2 m)	4'-6" (1.4 m)	5'-0" (1.5 m)

NOTES :

1. THE ROUNDOUT AND ADDED REINFORCEMENT WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE PAVEMENT.
2. TRANSVERSE JOINTS MAY BE MOVED TO ACCOMMODATE ROUNDOUT, EDGE OF CIRCULAR JOINT SHALL BE MINIMUM 12" (300) FROM TRANSVERSE JOINT. RELOCATED TRANSVERSE JOINT SHALL BE CONTINUOUS FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT.
3. SEMI-CIRCULAR FORM SHALL BE REMOVED PRIOR TO DRILL AND GROUT OF TIE BARS.
4. ALL REINFORCED BARS SHALL BE EPOXY COATED.
5. DRILL AND GROUT IS PREFERRED, HOWEVER TIE BARS CAN BE POURED IN PLACE IF CLEARANCE IS PROVIDED TO OUTER EDGE OF FRAME. MINIMUM 2" (50) CLEARANCE.
6. WOOD SHIMS SHALL BE USED TO ADJUST ALL FRAMES. AFTER ADJUSTING MORTAR HAS CURED, THE WOOD SHIMS SHALL BE REMOVED AND THE VOIDS UNDER THE FRAMES FILLED WITH NON SHRINK GROUT.
7. HOOP REINFORCEMENT SHALL BE ONE PIECE CONSTRUCTION.
8. CIRCULAR FRAMES AND GRATES MAY BE SUBSTITUTED.
9. CURB DOWELS MUST BE PLACED LEVEL & TRUE TO ALLOW CONTRACTION MOVEMENT.

DESIGNER NOTE:
THIS DETAIL IS TO BE USED WHEN THE GUTTER FLAG IS LESS THAN 24"



TRANSITION CURB & AND GUTTER INTO PARKWAY
(PREFERRED BECAUSE PAVING OF MAINLINE NOT AFFECTED.)

ALL DIMENSIONS ARE IN INCHES
(MILLIMETERS) UNLESS OTHERWISE NOTED

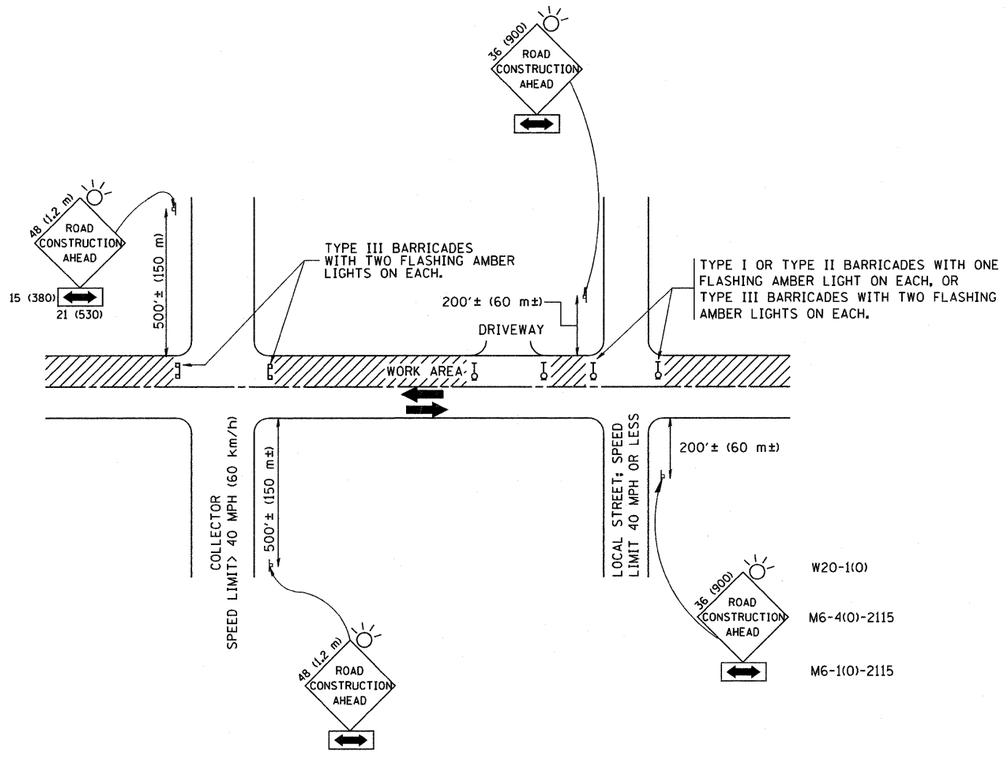
FILE NAME = W:\diststd\22x34\bd48.dgn	USER NAME = gaglienobt	DESIGNED - A. ABBAS	REVISED - T. MATOUSEK 08-28-00
		DRAWN - TOM MATOUSEK	REVISED - T. MATOUSEK 10-02-00
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - A. ABBAS	REVISED - T. MATOUSEK 04-25-02
	PLOT DATE = 1/4/2008	DATE - 01-04-99	REVISED - P. LAFLEUR 08-27-02

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PCC PAVEMENT ROUNDOUTS AT CURB AND GUTTER

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	182
	BD-48	CONTRACT NO. 60860		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME = W:\diststd\22x34\tc10.dgn	USER NAME = gaglionobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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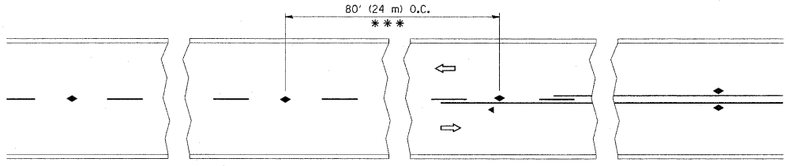
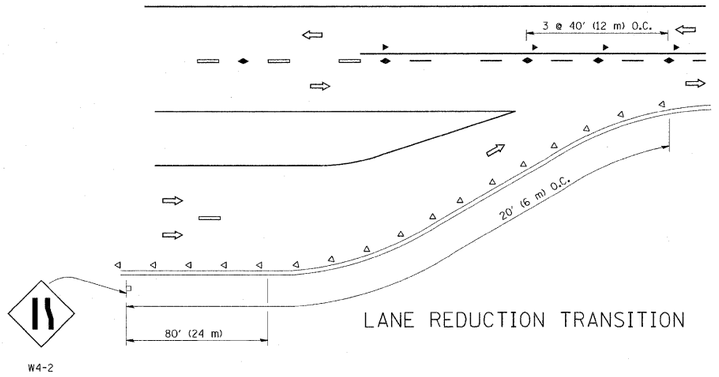
	TC-10	CONTRACT NO. 60860		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

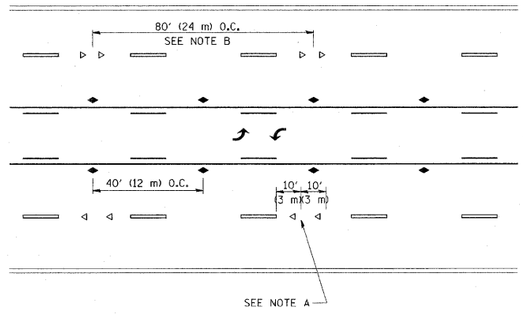


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

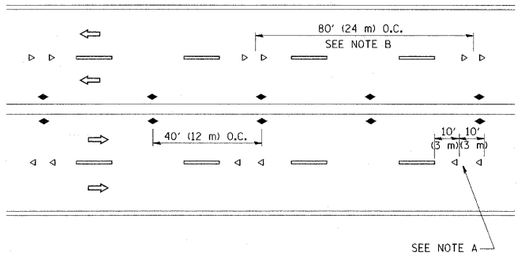
TWO-LANE/TWO-WAY



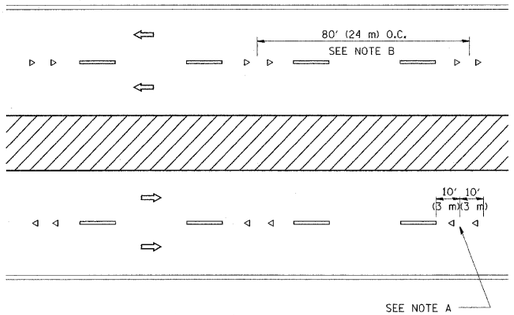
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

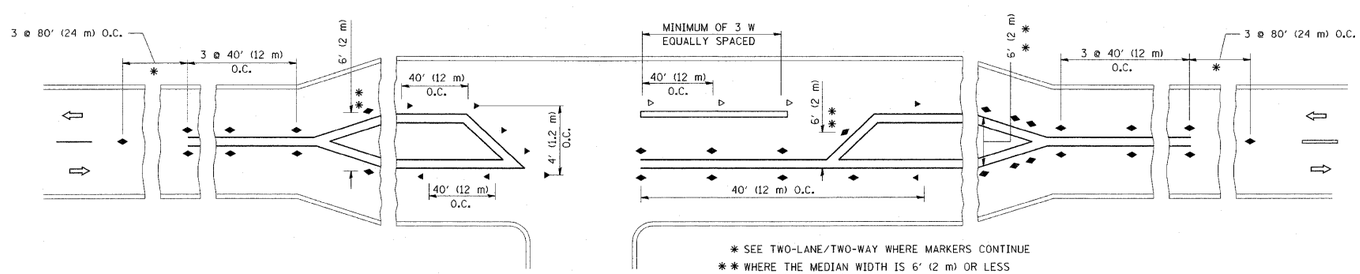
LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



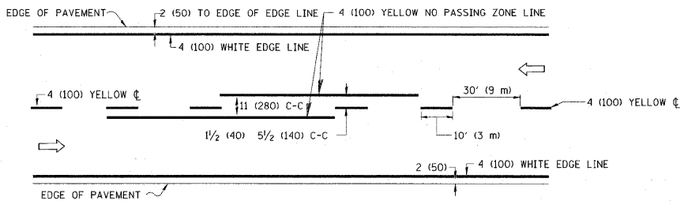
* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

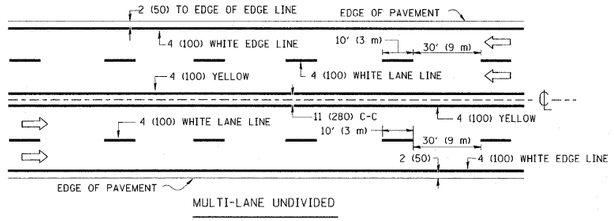
LEFT TURN

All dimensions are in inches (millimeters) unless otherwise shown.

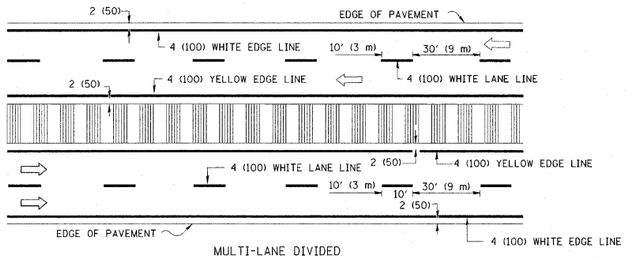
FILE NAME = c:\pw_work\pwidot\drivakosgn\d0108315\tc11.dgn	USER NAME = drivakosgn	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - T. RAMMACHER 03-12-99				337	20R-4	LAKE	232	184
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00					TC-11		CONTRACT NO. 60860	
	PLOT DATE = 9/9/2009	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT



2-LANE ROADWAY



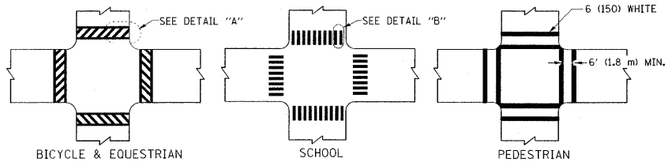
MULTI-LANE UNDIVIDED

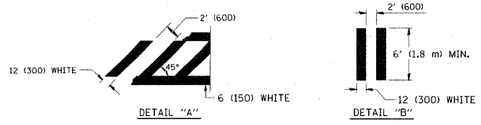


MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

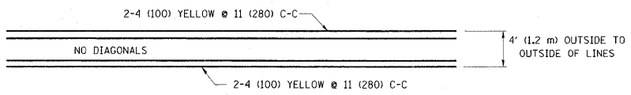
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

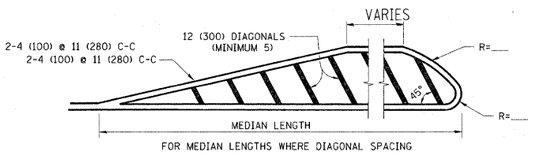




TYPICAL CROSSWALK MARKING



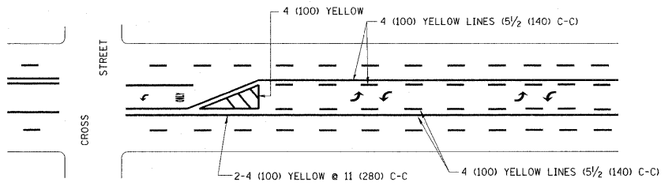
4' (1.2 m) WIDE MEDIANS ONLY



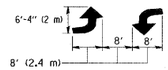
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

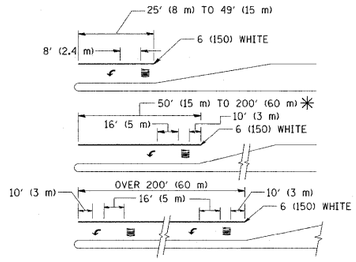


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

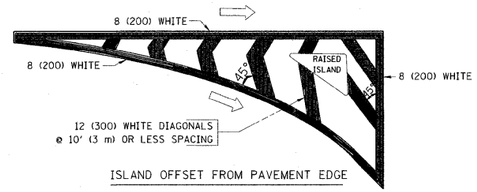


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m^2) **ONLY** AREA = 20.8 SQ. FT. (1.9 m^2)

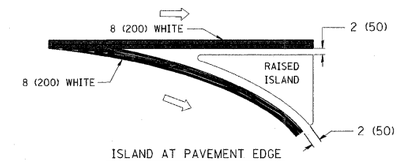
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m^2) EACH "X"=54.0 SQ. FT. (5.0 m^2)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

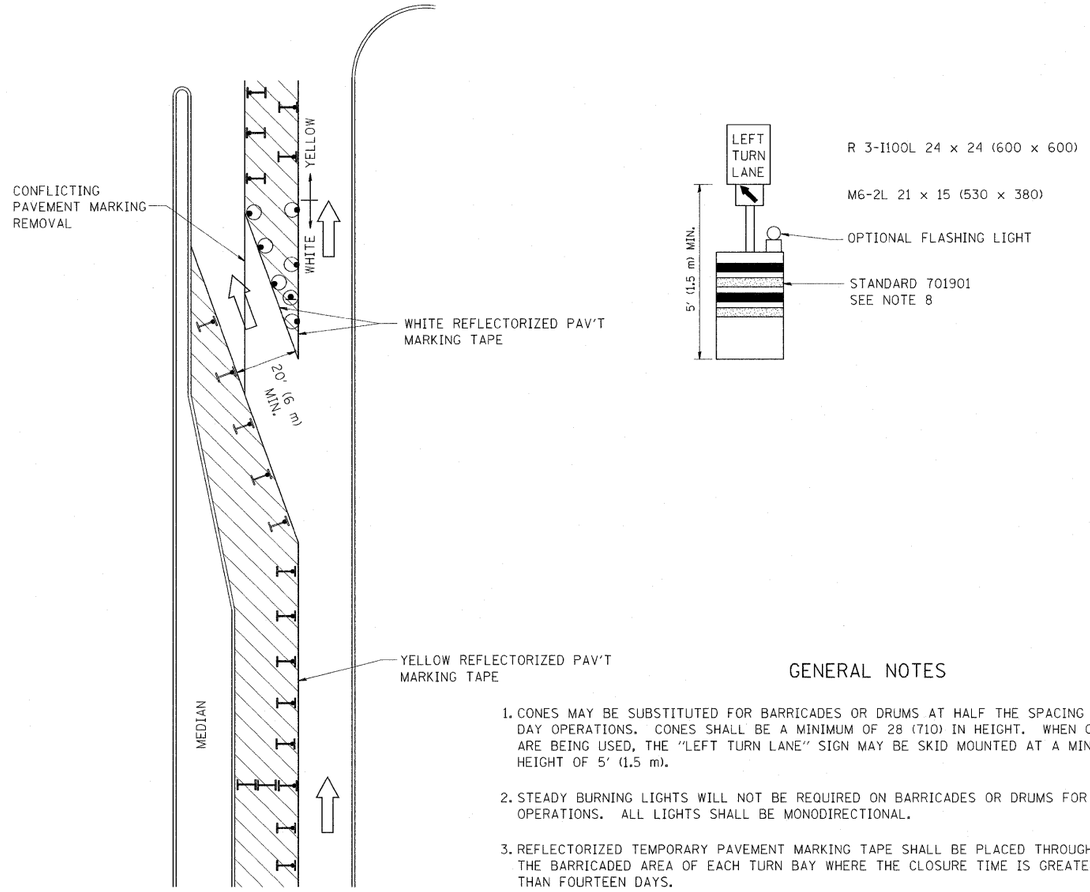
FILE NAME = c:\pw_work\pwidot\drivakosgn\d0108315\tc13.dgn	USER NAME = drivakosgn	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
		DRAWN -	REVISED - C. JUCIUS 09-09-09
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	185
	TC-13	CONTRACT NO. 60860		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHR 350 PREQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

LEGEND

WORK AREA

LANE OPEN TO TRAFFIC

TYPE I OR II BARRICADE WITH STEADY BURN LIGHT

DRUM WITH STEADY BURN LIGHT

DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL

TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

All dimensions are in inches (millimeters) unless otherwise shown.

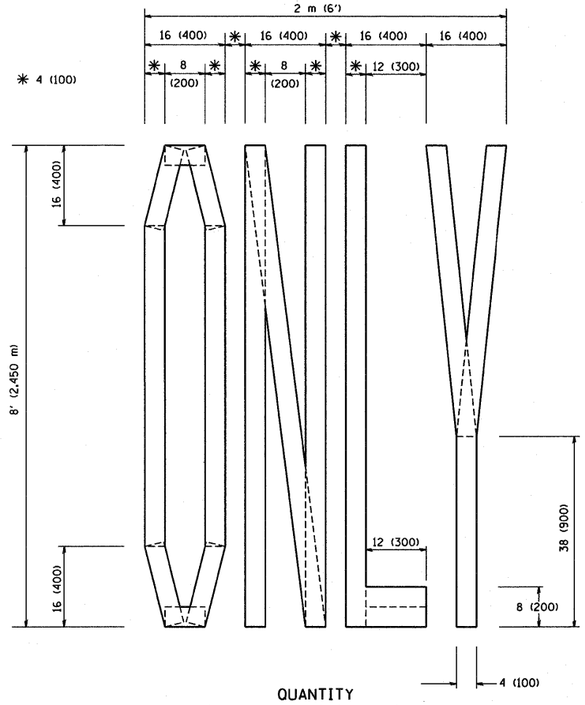
FILE NAME = c:\pw_work\PWIDOT\DRIVAKOSGN\d0108315\tc14.dgn	USER NAME = drivakosgn	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
	PLOT SCALE = 49.9999 ' / IN.	REVISED - A. HOUSEH 11-07-95	REVISED -
	PLOT DATE = 9/14/2009	REVISED - A. HOUSEH 10-12-96	REVISED -
		REVISED -T. RAMMACHER 01-06-00	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

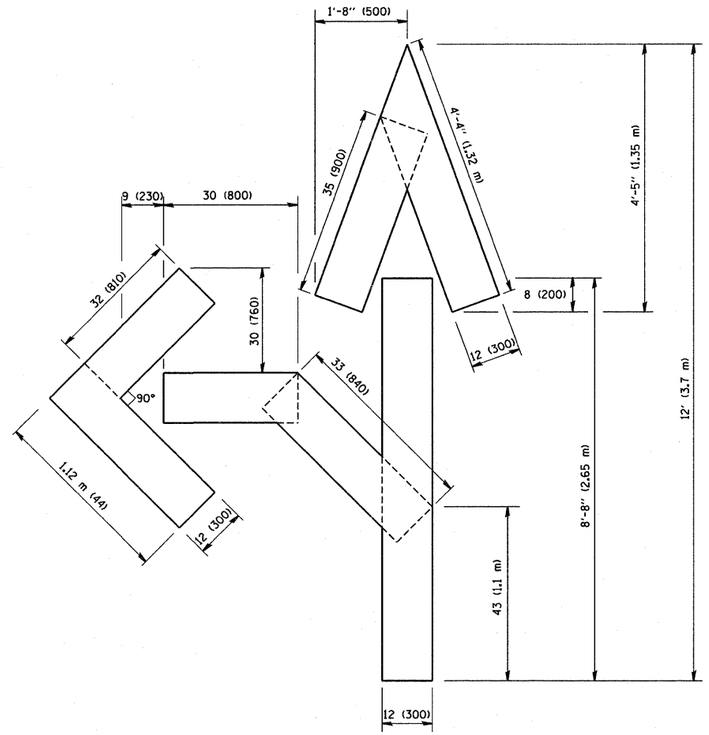
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

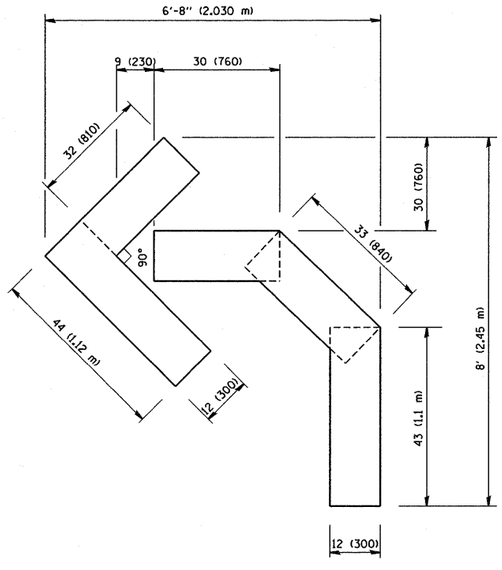
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	186
	TC-14	CONTRACT NO. 60860		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



QUANTITY
4 (100) LINE = 64.1 ft. (19.7 m)
21.1 sq. ft. (1.97 sq. m)



QUANTITY
4 (100) LINE = 82.5 ft. (25.3 m)
27.5 sq. ft. (2.53 sq. m)



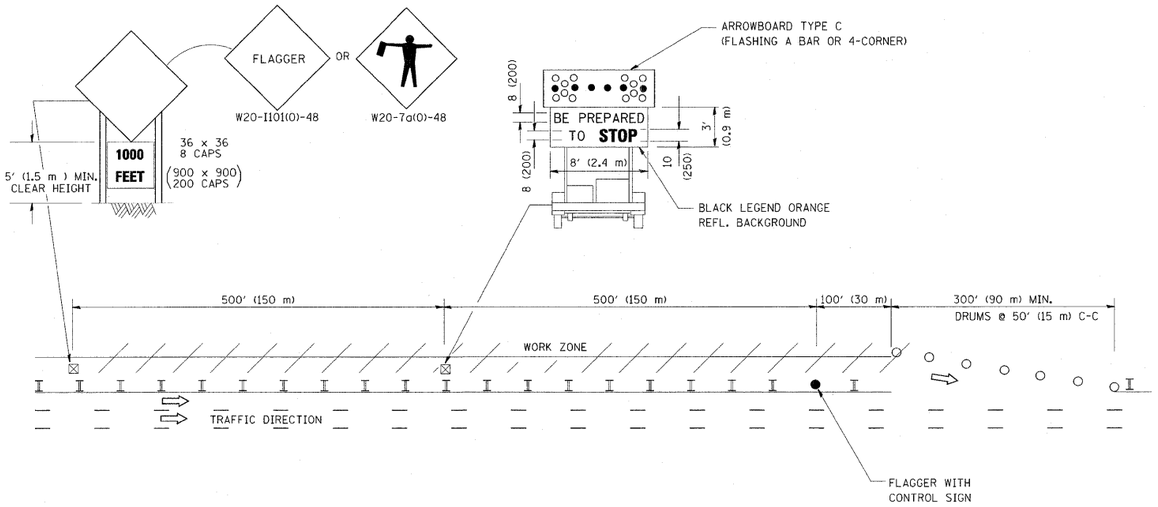
QUANTITY
4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.39 sq. m)

All dimensions are in inches (millimeters) unless otherwise shown.

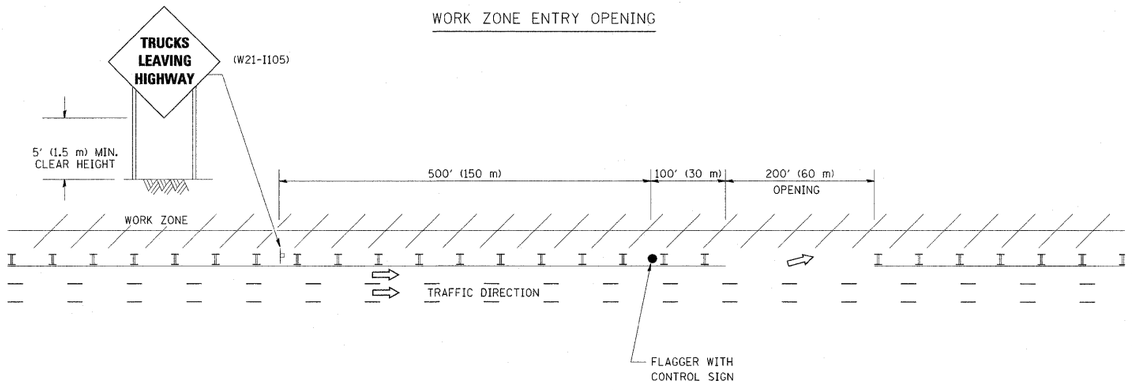
FILE NAME = W:\diststd\22x34\tc16.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED -T. RAMMACHER 06-05-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -T. RAMMACHER 11-04-97					337	20R-4	LAKE	232	187
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98						TC-16	CONTRACT NO. 60860		
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. THE ARROWBOARD, THE FLAGGER AHEAD SIGN AND THE TRUCKS LEAVING HIGHWAY SIGN SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE EXIT OPENINGS SHOULD BE A MINIMUM OF ONE HALF MILE APART.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

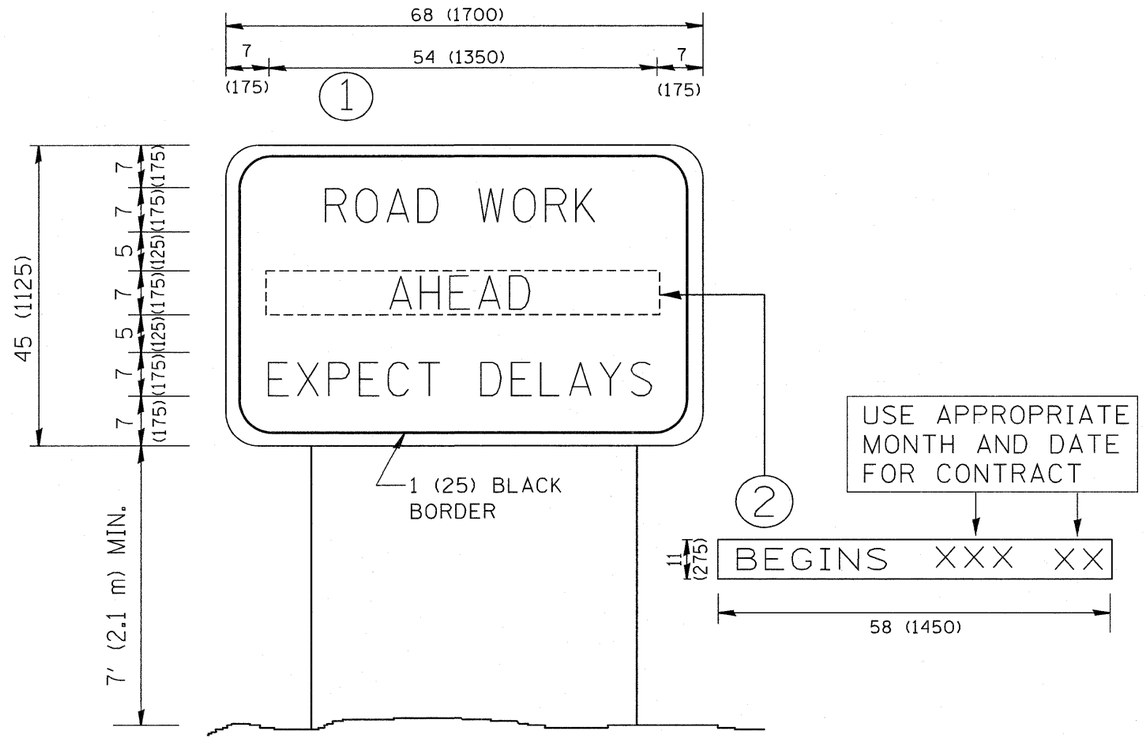
FILE NAME = W:\diststd\22x34\tc18.dgn	USER NAME = leysa	DESIGNED -	REVISED - J.A.F. 04-03
		DRAWN -	REVISED - J.A.F. 02-06
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - S.P.B. 01-07
	PLOT DATE = 1/26/2010	DATE -	REVISED - S.P.B. 12-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	188
	TC-18	CONTRACT NO. 60860		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

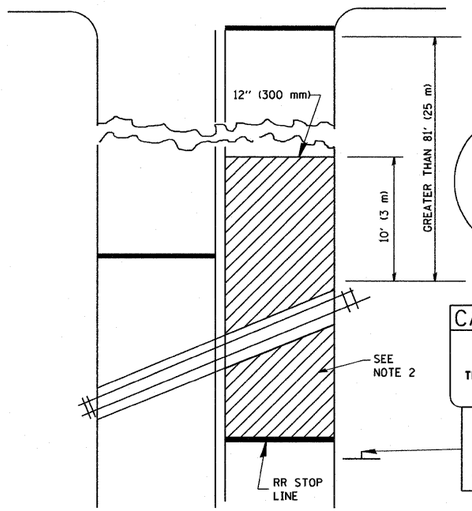
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

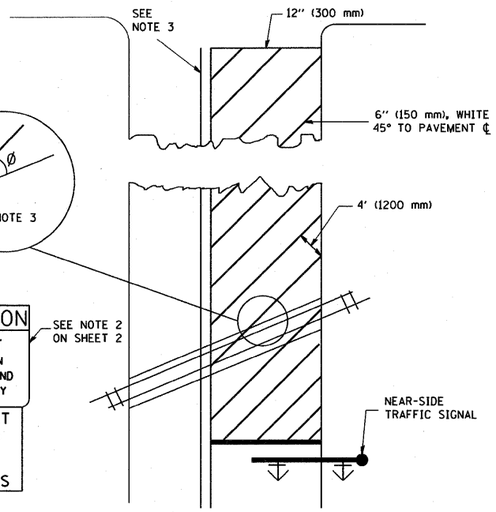
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	189
	TC-22	CONTRACT NO. 60860		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

WITH INTERSECTION TRAFFIC SIGNALS



WITH NEAR-SIDE TRAFFIC SIGNALS

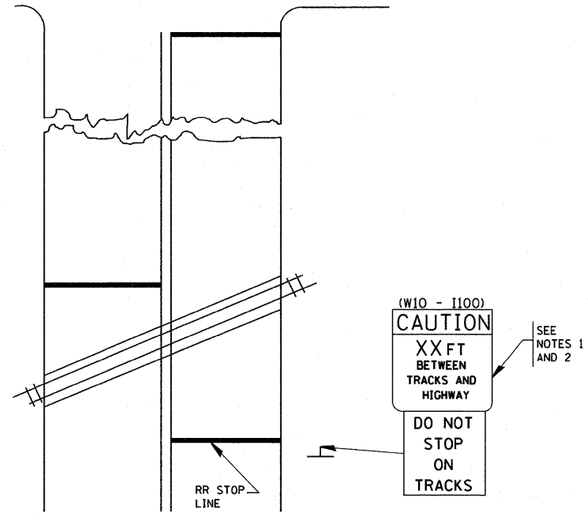


NOTES:

1. PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
2. WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED, THE PAVEMENT MARKINGS EXTENDS TO THE INTERSECTION.
3. WHERE THE ANGLE BETWEEN THE DIAGONAL STRIPES AND THE TRACK (Ø) WOULD BE LESS THAN APPROXIMATELY 20°, THE STRIPES SHOULD BE SLOPED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.

WITH NONSIGNALIZED INTERSECTION

81' (25 m) OR LESS TO CLOSEST RAIL



NOTE :

1. DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET (1.8 m) FROM THE RAIL CLOSEST TO THE INTERSECTION TO THE STOP LINE OR CROSSWALK, WHICHEVER IS CLOSEST, ROUNDED DOWN TO THE NEAREST 5 FEET (1.5 m). WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE THE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.
2. THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6-FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTEND TO THE INTERSECTION.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

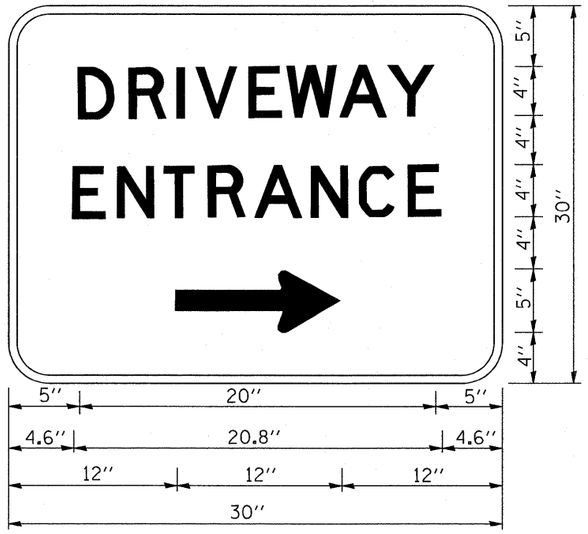
FILE NAME = W:\diststd\22x34\tc23.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED - 01-01-07
		DRAWN -	REVISED -
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING
TREATMENT FOR RAILROAD CROSSINGS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	190
	TC-23	CONTRACT NO. 60860		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



3.0'' RADIUS, 0.5'' BORDER, WHITE ON GREEN; REFLECTORIZED
''DRIVEWAY'' D; ''ENTRANCE'' D; STANDARD ARROW CUSTOM 12.0'' × 5.0''

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM ''TEMPORARY INFORMATION SIGNING''.

FILE NAME = W:\diststd\22x34\tc26.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY ENTRANCE SIGNING	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			337	20R-4	LAKE	232	191
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -				TC-26		CONTRACT NO. 60860	
	PLOT DATE = 1/4/2008	DATE -	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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

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

FILE NAME = $FILE$

USER NAME = $USER$

PLOT SCALE = $SCALE$

PLOT DATE = $DATE$

DESIGNED	-	JPS
DRAWN	-	JPS
CHECKED	-	JP
DATE	-	05/14/2010

REVISED	-	
REVISED	-	
REVISED	-	
REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 22 CROSS SECTIONS

HORIZ. 1"=10'
SCALE: VERT. 1"=5'

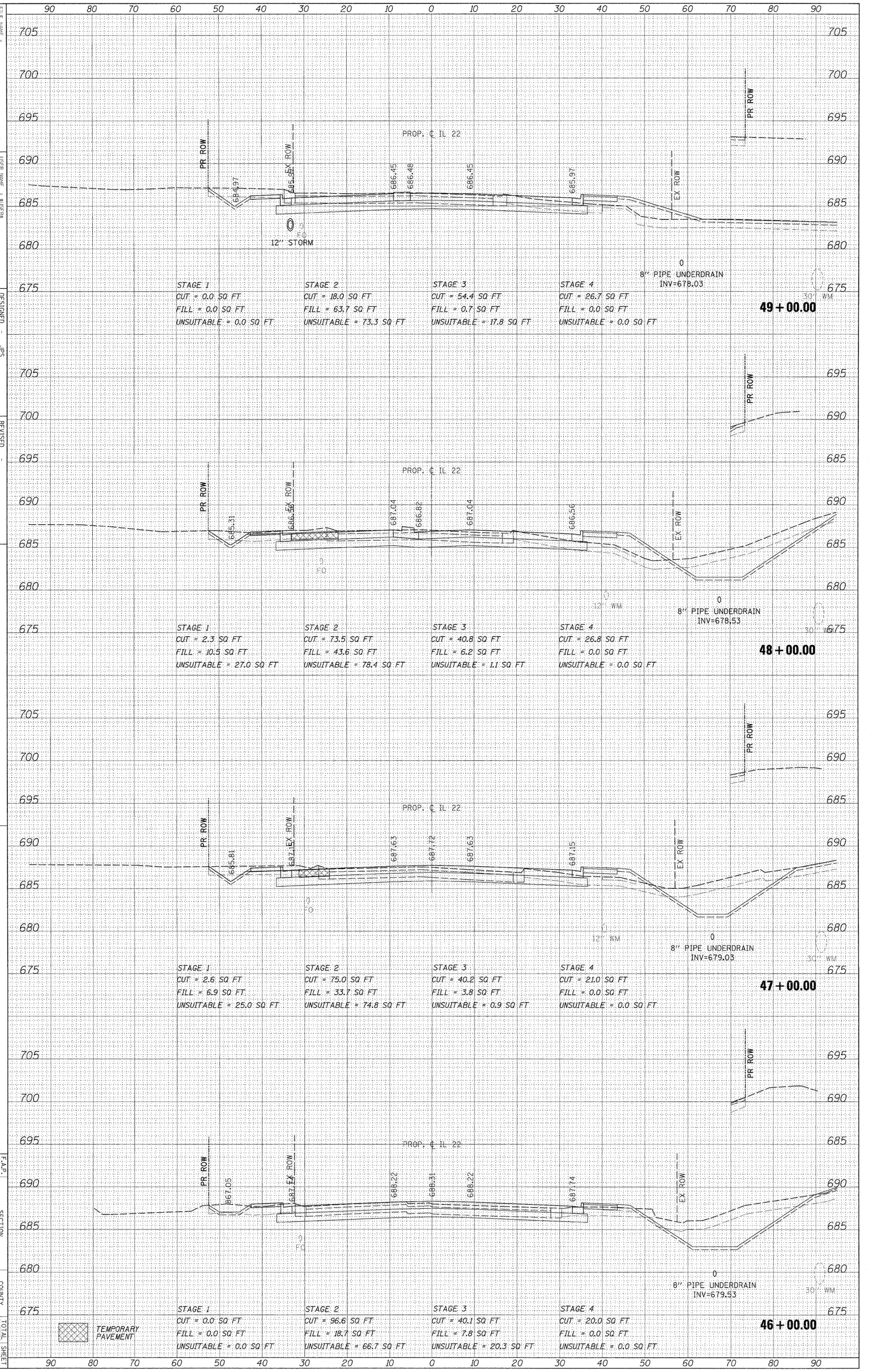
SHEET NO. 192 OF 232 SHEETS

STA. 46+00.00 TO STA. 49+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	192

(ILLINOIS FED. AID PROJECT)

CONTRACT NO. 60860



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

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

FILE NAME = $FILE$

USER NAME = $USER$

PLOT SCALE = $SCALE$

PLOT DATE = $DATE$

DESIGNED	-	JPS
DRAWN	-	JPS
CHECKED	-	JP
DATE	-	05/14/2010

REVISED	-	
REVISED	-	
REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 22 CROSS SECTIONS

HORIZ. 1"=10'
SCALE: VERT. 1"=5' | SHEET NO. 193 OF 232 SHEETS | STA. 49+46.42 | TO STA. 52+00.00

F.A.P. RTE. 337 | SECTION 20R-4 | COUNTY LAKE | CONTRACT NO. 60860 | TOTAL SHEETS 232 | SHEET NO. 193

ILLINOIS FED. AID PROJECT

90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90

705 700 695 690 685 680 675

PROP. ℄ IL 22

PR ROW

EX ROW

684.36 685.18 685.66 685.51 685.57 685.66 685.18 685.11

36" STORM

6" GAS 12" WM

STAGE 1
CUT = 0.0 SQ FT
FILL = 0.8 SQ FT
UNSUITABLE = 5.8 SQ FT

STAGE 2
CUT = 16.6 SQ FT
FILL = 33.2 SQ FT
UNSUITABLE = 32.3 SQ FT

STAGE 3
CUT = 31.2 SQ FT
FILL = 16.3 SQ FT
UNSUITABLE = 18.3 SQ FT

STAGE 4
CUT = 23.1 SQ FT
FILL = 0.0 SQ FT
UNSUITABLE = 0.0 SQ FT

52+00.00

PROP. ℄ IL 22

PR ROW

EX ROW

684.91 685.39 685.15 685.39 684.91 684.87

36" STORM

6" GAS 12" WM

STAGE 1
CUT = 0.0 SQ FT
FILL = 12.05 SQ FT
UNSUITABLE = 16.8 SQ FT

STAGE 2
CUT = 29.8 SQ FT
FILL = 3.6 SQ FT
UNSUITABLE = 35.0 SQ FT

STAGE 3
CUT = 51.6 SQ FT
FILL = 5.2 SQ FT
UNSUITABLE = 0.0 SQ FT

STAGE 4
CUT = 34.8 SQ FT
FILL = 0.0 SQ FT
UNSUITABLE = 0.0 SQ FT

51+00.00

PROP. ℄ IL 22

PR ROW

EX ROW

685.38 685.86 685.95 685.86 685.38

36" STORM

6" GAS 12" WM

STAGE 1
CUT = 0.0 SQ FT
FILL = 0.0 SQ FT
UNSUITABLE = 0.0 SQ FT

STAGE 2
CUT = 25.3 SQ FT
FILL = 16.7 SQ FT
UNSUITABLE = 38.6 SQ FT

STAGE 3
CUT = 48.8 SQ FT
FILL = 3.6 SQ FT
UNSUITABLE = 16.6 SQ FT

STAGE 4
CUT = 28.7 SQ FT
FILL = 0.0 SQ FT
UNSUITABLE = 0.0 SQ FT

50+00.00

PROP. ℄ IL 22

BANNOCKBURN
CORP. CENTER

PR ROW

EX ROW

685.65 686.17 686.26 686.17 685.69

6.3%

2.6%

12" STORM

PROP. T.E.

TRINITY COLLEGE
ACCESS DRIVE

6" GAS 12" WM

TEMPORARY PAVEMENT

STAGE 1
CUT = 0.0 SQ FT
FILL = 0.0 SQ FT
UNSUITABLE = 0.0 SQ FT

STAGE 2
CUT = 79.7 SQ FT
FILL = 0.7 SQ FT
UNSUITABLE = 0.0 SQ FT

STAGE 3
CUT = 80.4 SQ FT
FILL = 0.1 SQ FT
UNSUITABLE = 0.0 SQ FT

STAGE 4
CUT = 28.4 SQ FT
FILL = 0.0 SQ FT
UNSUITABLE = 0.0 SQ FT

49+46.42

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

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

FILE NAME = $FILEL$

USER NAME = $USER$

PLOT SCALE = $SCALE$

PLOT DATE = $DATE$

DESIGNED	-	JPS
DRAWN	-	JPS
CHECKED	-	JP
DATE	-	05/14/2010

REVISED	-	
REVISED	-	
REVISED	-	

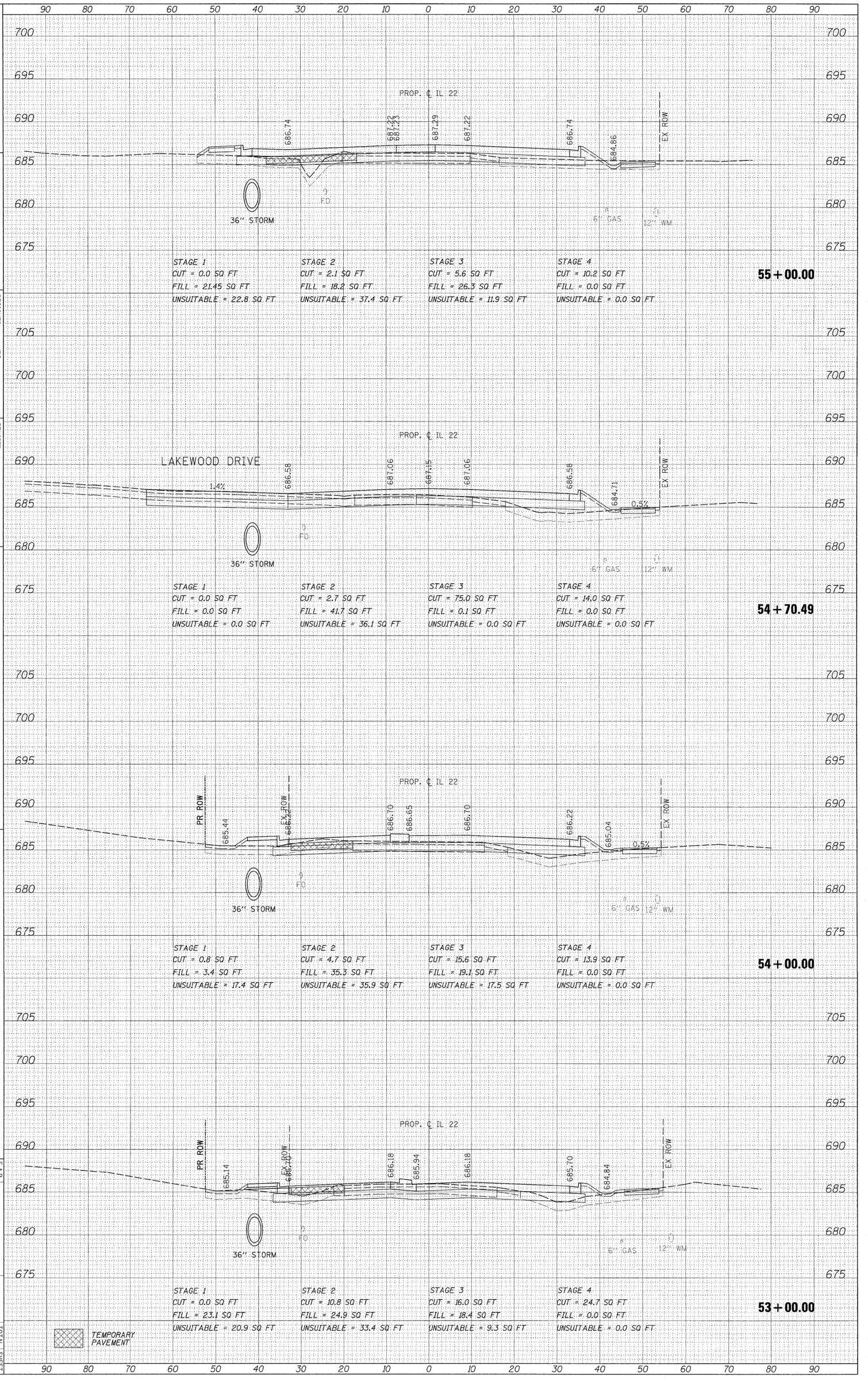
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 22 CROSS SECTIONS

HORIZ. 1"=10'
VERT. 1"=5'

SHEET NO. 194 OF 232 SHEETS

STA. 53+00.00 TO STA. 55+00.00



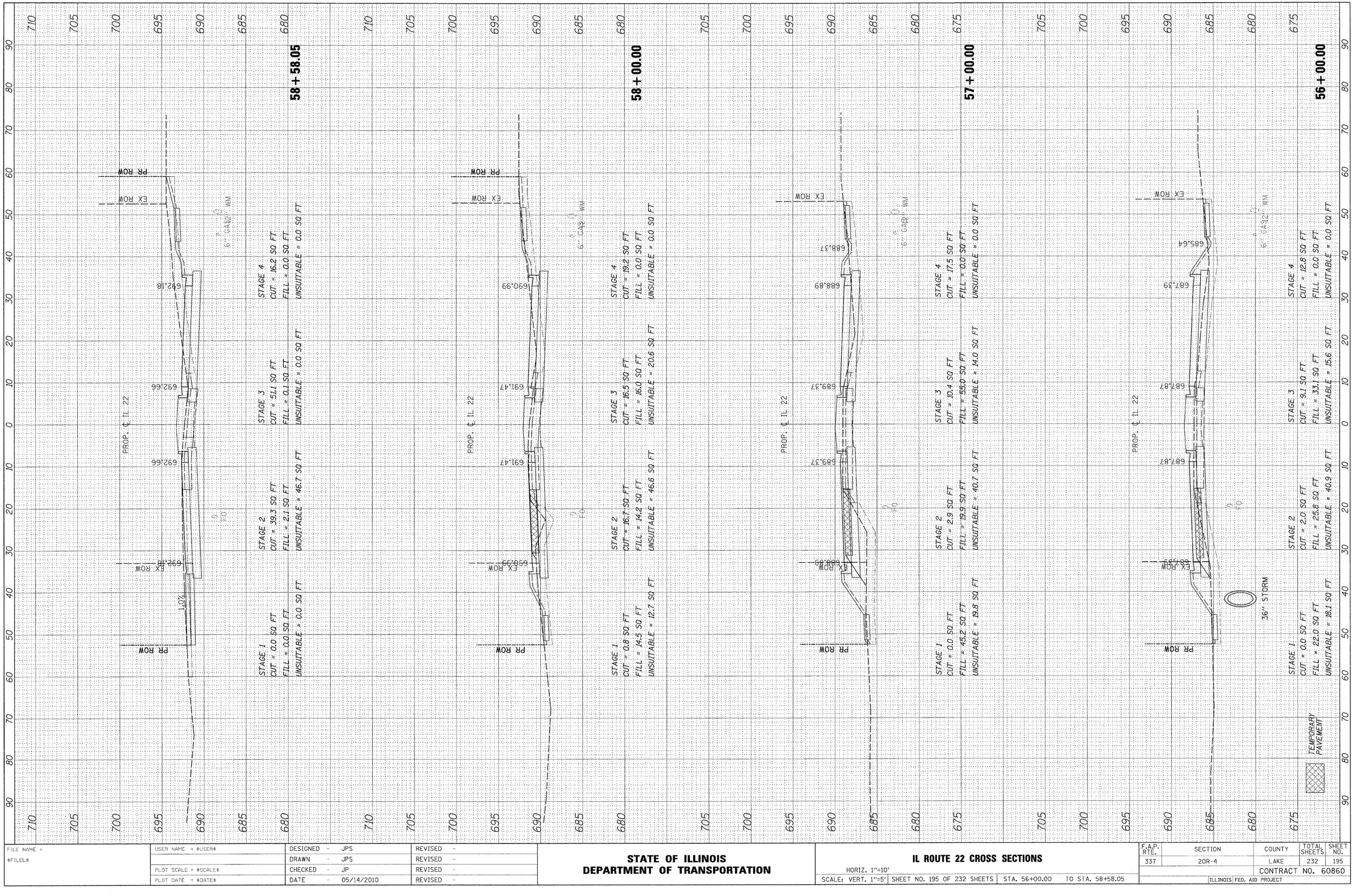
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	194

ILLINOIS FED. AID PROJECT

CONTRACT NO. 60860

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

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



FILE NAME =	USER NAME = $USER$	DESIGNED - JPS	REVISED -
$FILEL$		DRAWN - JPS	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - JP	REVISED -
	PLOT DATE = $DATE$	DATE - 05/14/2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 22 CROSS SECTIONS

HORIZ. 1"=10'
SCALE: VERT. 1"=5' | SHEET NO. 195 OF 232 SHEETS | STA. 56+00.00 TO STA. 58+58.05

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	195
		CONTRACT NO. 60860		
	ILLINOIS FED. AID PROJECT			

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

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

FILE NAME = $FILE$

USER NAME = $USER$

PLOT SCALE = $SCALE$

PLOT DATE = $DATE$

DESIGNED	-	JFS
DRAWN	-	JFS
CHECKED	-	JP
DATE	-	05/14/2010

REVISED	-	
REVISED	-	
REVISED	-	
REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

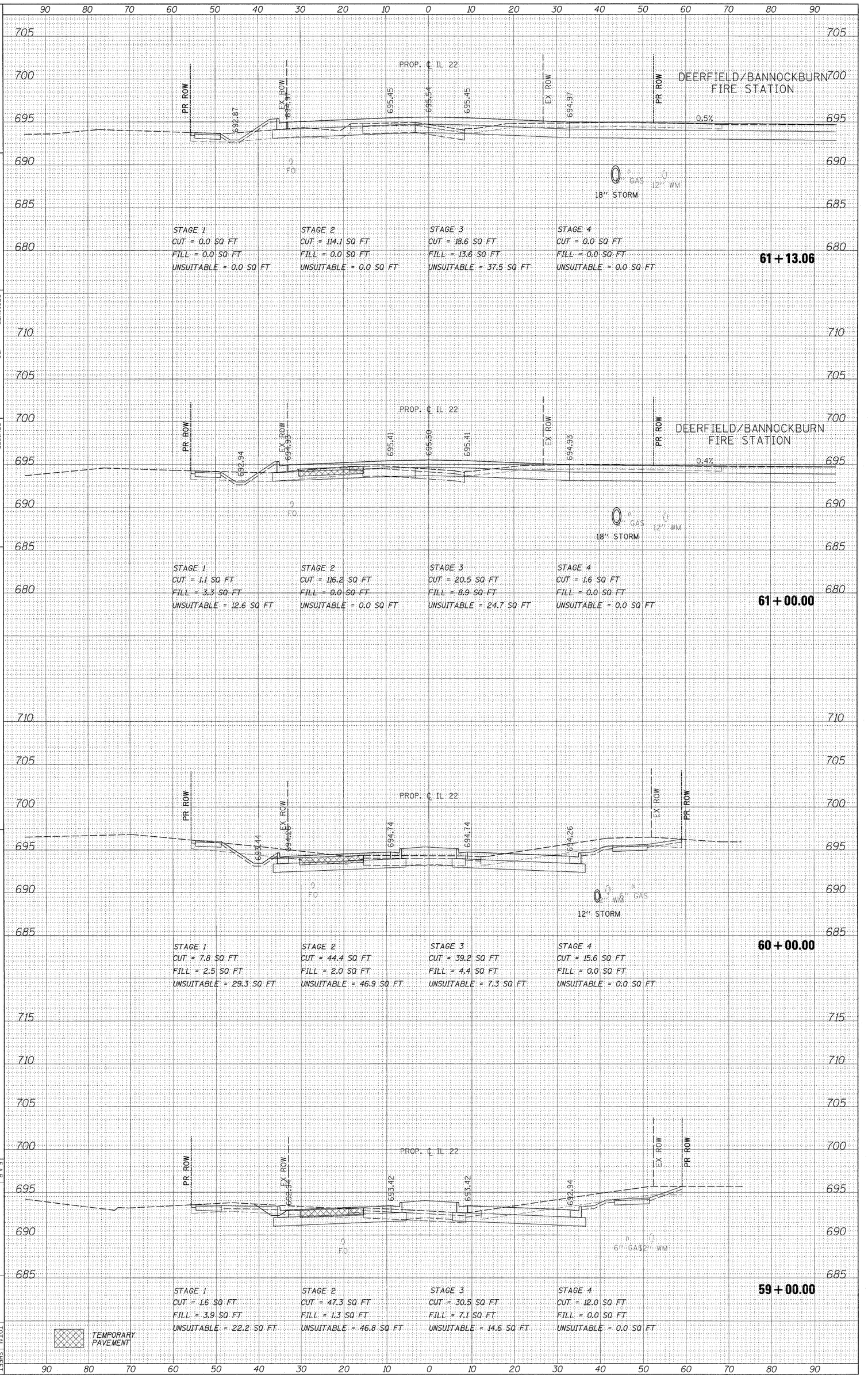
IL ROUTE 22 CROSS SECTIONS

HORIZ. 1"=10'
VERT. 1"=5'

SHEET NO. 196 OF 232 SHEETS | STA. 59+00.00 | TO STA. 61+13.06

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	196

ILLINOIS FED. AID PROJECT | CONTRACT NO. 60860



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

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

FILE NAME = #FILE#

USER NAME = #USER#

PLOT SCALE = #SCALE#

PLOT DATE = #DATE#

DESIGNED	-	JPS
DRAWN	-	JPS
CHECKED	-	JP
DATE	-	05/14/2010

REVISED	-	
REVISED	-	
REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 22 CROSS SECTIONS

HORIZ. 1"=10'
VERT. 1"=5'

SHEET NO. 197 OF 232 SHEETS

STA. 62+00.00 TO STA. 64+36.39

F.A.P. RTE. 337

SECTION 20R-4

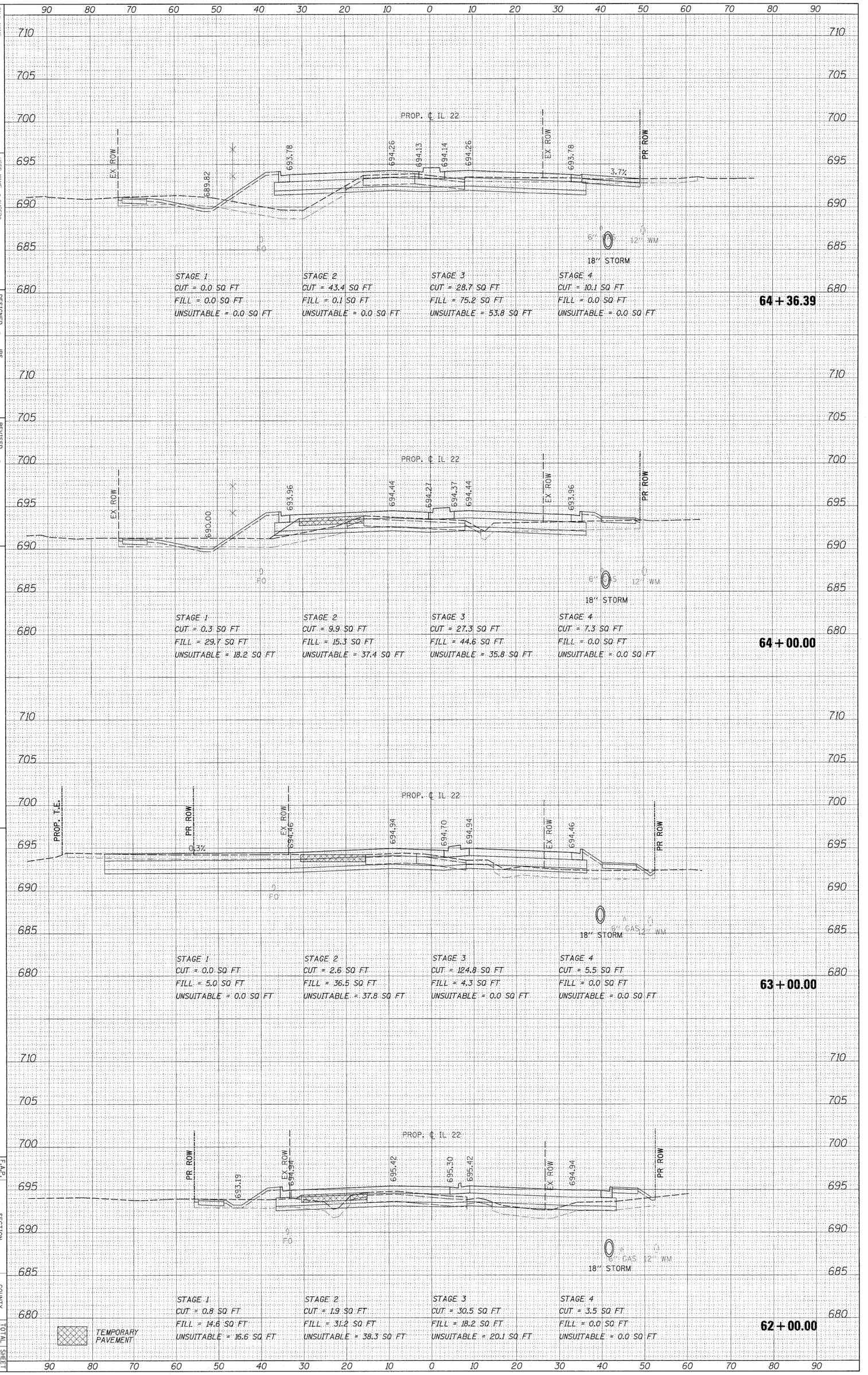
COUNTY LAKE

CONTRACT NO. 60860

TOTAL SHEETS 232

SHEET NO. 197

ILLINOIS FED. AID PROJECT



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

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

FILE NAME = $FILE$

USER NAME = $USER$

PLOT SCALE = $SCALE$

PLOT DATE = $DATE$

DESIGNED	-	JPS
DRAWN	-	JPS
CHECKED	-	JP
DATE	-	05/14/2010

REVISED	-	
REVISED	-	
REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 22 CROSS SECTIONS

HORIZ. 1"=10'
SCALE: VERT. 1"=5'

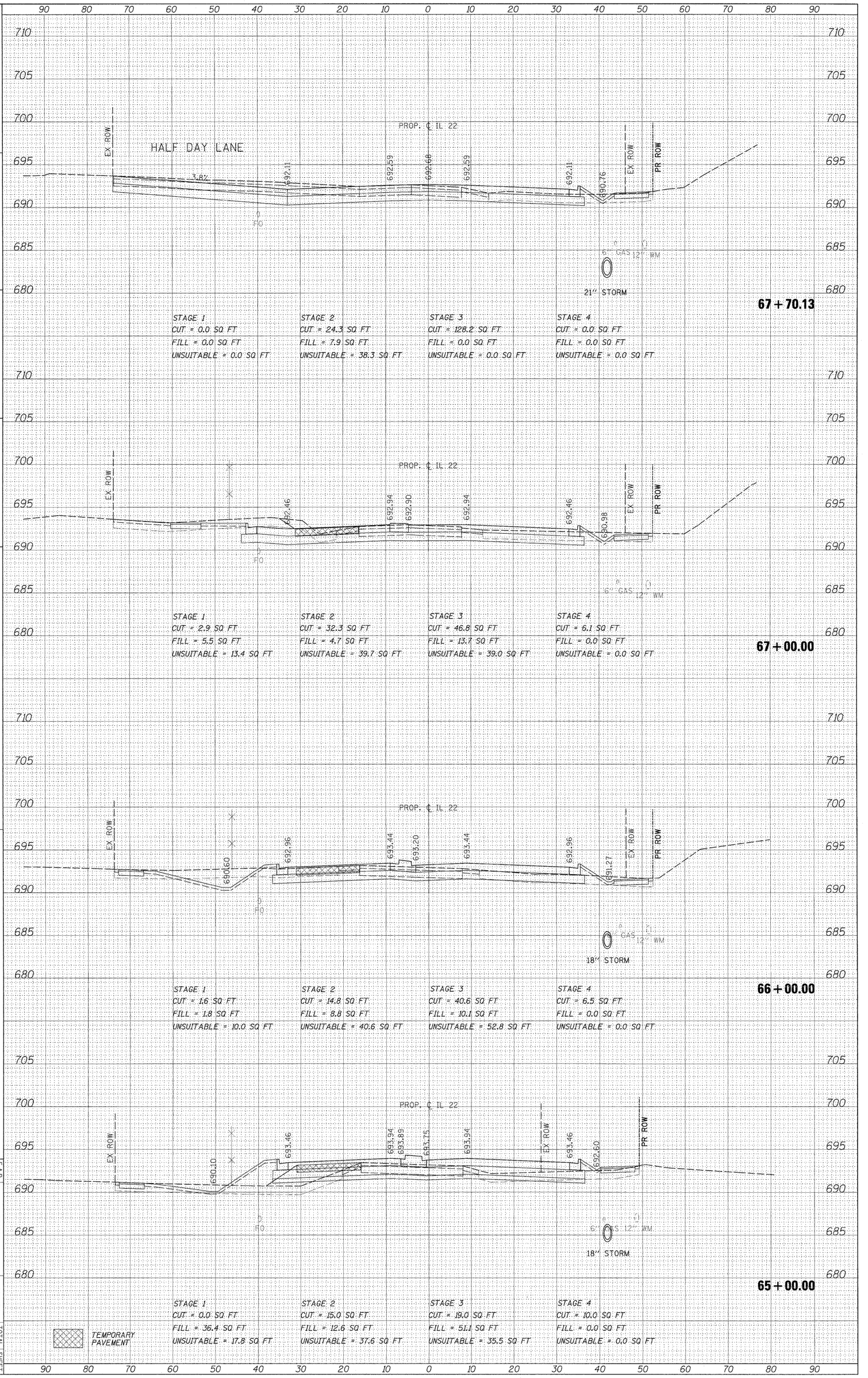
SHEET NO. 198 OF 232 SHEETS

STA. 65+00.00 TO STA. 67+70.13

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20R-4	LAKE	232	198

ILLINOIS FED. AID PROJECT

CONTRACT NO. 60860



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

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

FILE NAME = $FILE$

USER NAME = $USER$

PLOT SCALE = $SCALE$

PLOT DATE = $DATE$

DESIGNED	-	JPS
DRAWN	-	JPS
CHECKED	-	JP
DATE	-	05/14/2010

REVISED	-	
REVISED	-	
REVISED	-	
REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 22 CROSS SECTIONS

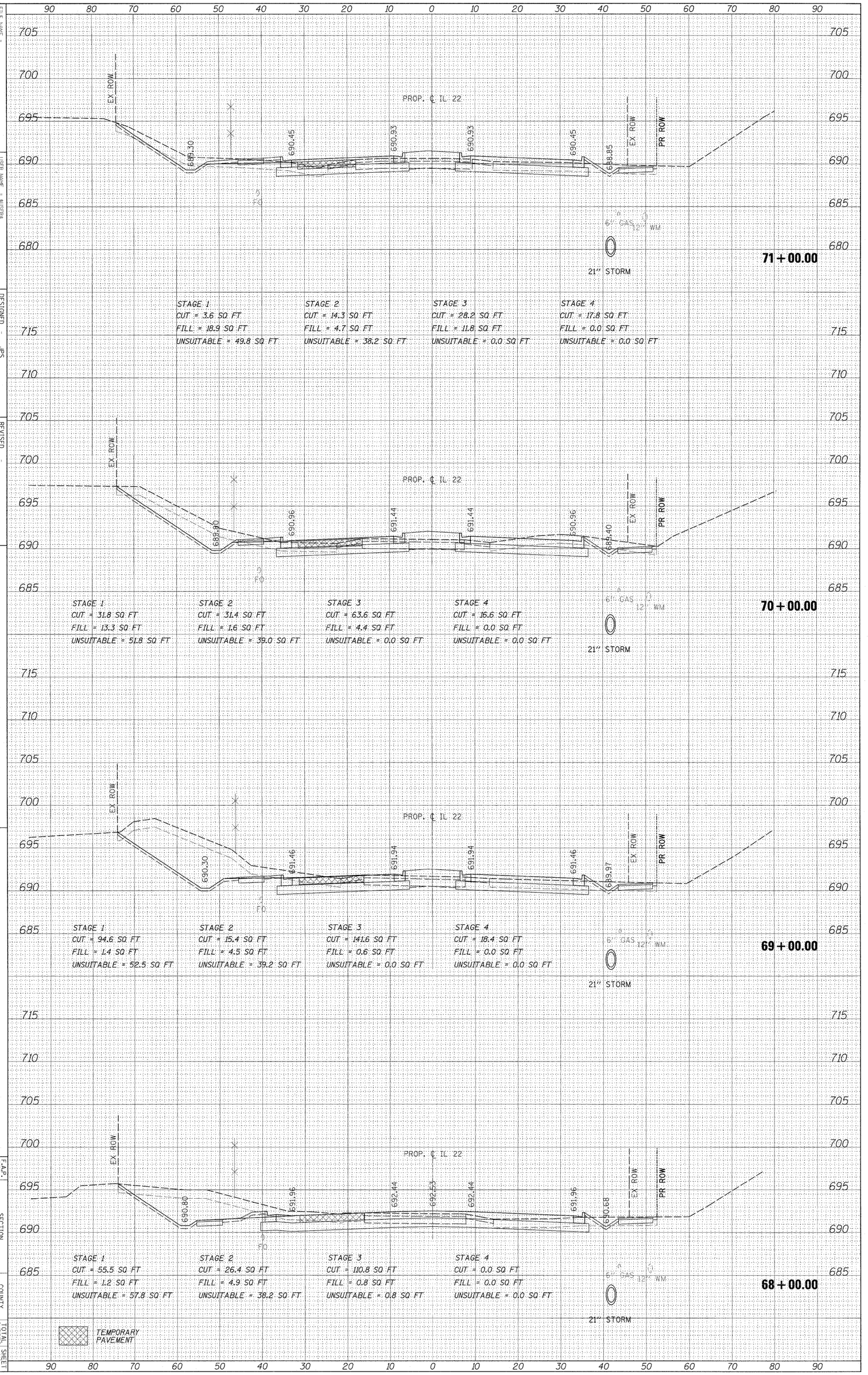
HORIZ. 1"=10'
VERT. 1"=5'

SCALE:

SHEET NO. 199 OF 232 SHEETS | STA. 68+00.00 TO STA. 71+00.00

F.A.P. RTE. 337 | SECTION 20R-4 | COUNTY LAKE | CONTRACT NO. 60860 | ILLINOIS FED. AID PROJECT

TOTAL SHEETS 232 | SHEET NO. 199



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

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

FILE NAME = $FILE$

USER NAME = $USER$

PLOT SCALE = $SCALE$

PLOT DATE = $DATE$

	DESIGNED	-	JPS
	DRAWN	-	JPS
	CHECKED	-	JP
DATE	-		05/14/2010

	REVISED	-
	REVISED	-
	REVISED	-
REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 22 CROSS SECTIONS

HORIZ. 1"=10'
VERT. 1"=5'

SHEET NO. 200 OF 232 SHEETS

STA. 72+00.00 TO STA. 75+00.00

F.A.P. RTE. 337

SECTION 20R-4

COUNTY LAKE

CONTRACT NO. 60860

ILLINOIS FED. AID PROJECT

TOTAL SHEETS 232

SHEET NO. 200