7-30-10 LETTING ITEM 038

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	*165 *1165+1=1166	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

F.A.P. 866: IL. RTE. 83 (MILWAUKEE AVE.) AT IL. RTE. 132 (GRAND AVE.) SECTION: 4N–1 INTERSECTION WIDENING, TRAFFIC SIGNAL MODERNIZATION AND RETAINING WALL

PROJECT NO.: ACF-HPP-0866(011)

STRUCTURE NO.: 049–D002

LAKE COUNTY

C–91–145–00

FOR INDEX OF SHEETS, SEE SHEET NO. 2

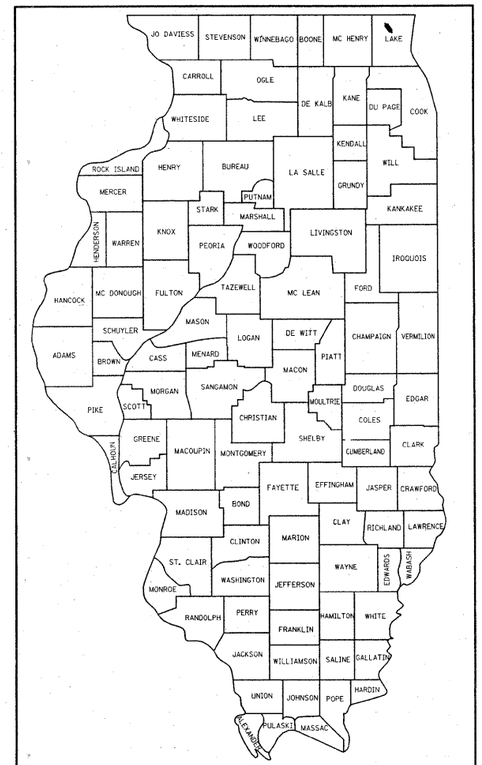
PROJECT IS LOCATED IN THE VILLAGE OF LAKE VILLA

TRAFFIC DATA

IL RTE 83:
2007 ADT = 11700 – 15600
SPEED LIMIT = 35 MPH (60 KPH)

IL RTE 132:
2007 ADT = 10800 – 19100
SPEED LIMIT = 35 MPH (60 KPH)

D–91–145–00

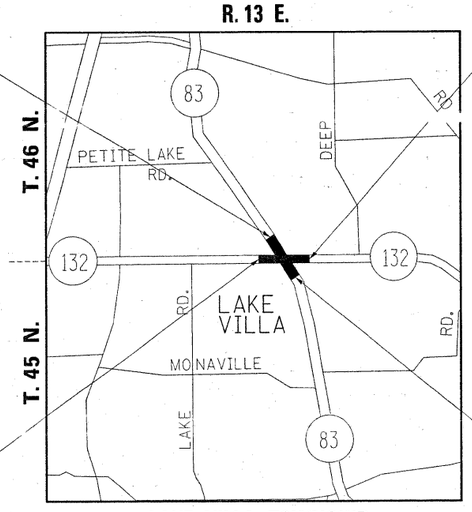


LOCATION OF SECTION INDICATED THUS:– ▬

R. 13 E.

ILLINOIS 83 PROJECT ENDS STATION 3+338

ILLINOIS 132 PROJECT ENDS STATION 1+312



ILLINOIS 132 PROJECT BEGINS STATION 0+687

ILLINOIS 83 PROJECT BEGINS STATION 2+575

LAKE VILLA TOWNSHIP

MAP SCALE: 1 KM 0 2 KM

METRIC RATIOS

1 m 0 2 m
1 : 50

0 5 m 10 m
1 : 100

10 m 0 20 m
1 : 250

5 m 0 20 m
1 : 500

0 50 m 100 m
1 : 1000

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1–800–892–0123 (OR 811)

CONTRACT NO. 60931

IL RTE 83:
GROSS & NET LENGTH OF PROJECT = 763 m = 0.763 km

IL RTE 132:
GROSS AND NET LENGTH OF PROJECT = 625 m = 0.625 km

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED MARCH 8, 20 10
Diane M. O'Keefe /ar
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
June 25 20 10
Scott E. Stitt, P.E. /ar
acting ENGINEER OF DESIGN AND ENVIRONMENT
June 25 20 10
Christine M. Reed /ar
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

DISTRICT 1 DESIGN PLAN PREPARATION ENGINEER: KEN ENG /J.P. CHANG (847) 705–4432

*REF-
*REF-
*REF-

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	2
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60931

INDEX OF SHEETS

STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001-05	TYPICAL SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-05	TEMPORARY EROSION CONTROL SYSTEM
406201-01	MAILBOX TURNOUT
420401-08	BRIDGE APPROACH PAVEMENT
424001-05	CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
542301-02	PRECAST REINFORCED FLARED END SECTION
542511-02	INLET BOX TYPE 600 (24) C
602001-01	CATCH BASIN TYPE A
602011-01	CATCH BASIN TYPE C
602401-02	MANHOLE TYPE A
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS TYPE 1
604036-02	GRATE TYPE 8
604091-02	FRAME AND GRATE TYPE 24
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-00	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINAL
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701501-05	URBAN LANE CLOSURE 2L, 2W, UNDIVIDED
701606-06	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-06	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-04	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK
701901-01	TRAFFIC CONTROL DEVICES

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL RTE 83 (MILWAKEE AVE)
AT IL RTE 132 (GRAND AVE)
INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES

SCALE:
DRAWN BY
DATE: 3/18/2010
CHECKED BY

3/18/2010
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	3
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60931

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 (OR 811) FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED).

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF LAKE VILLA.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

ANY DAMAGE TO TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS UNLESS OTHERWISE SPECIFIED.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 38mm (1-1/2 INCHES) WHERE THE SPEED IS 45 MPH OR LESS, AND25mm (1 INCH) WHERE THE SPEED LIMIT IS 45 MPH. WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H).

3 METERS (10 FEET) TRANSITION SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER TO EXISTING CURB AND GUTTER IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.

THE PROPOSED HMA RESURFACING SHALL BE TAPERED OUT AT A RATE OF 6 METER (20) FEET PER 25mm OF THICKNESS AT MAINLINE AND MAJOR SIDE STREET LOCATIONS, EXCEPT WHERE BUTT JOINTS ARE INDICATED. AT MINOR STREETS AND ENTRANCES, TAPER OUT IN 3 METER (10 FEET) WHERE BUTT JOINTS ARE INDICATED.

DRAINAGE ADJUSTMENT OR RECONSTRUCTION WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

THE ENGINEER SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE ENGINEER SHALL CONTACT MS. DEBBIE HANLON, TRAFFIC FIELD ENGINEER, AT (847) 715-8414 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

THE REMOVAL OF GUARDRAIL TERMINAL SHALL BE INCLUDED IN THE UNIT PRICE PER LINEAL METER FOR "STEEL BEAM GUARDRAIL REMOVAL".

ABANDONED SEWERS SHALL BE PLUGGED WITH CLASS SI MORTAR, OR BRICK AND SUITABLE MATERIAL, TO THE SATISFACTION OF THE ENGINEER AS SPECIFIED IN ART. 550.05 OF THE STANDARD SOECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND SHALL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED AS INCLUDED IN THE UNIT PRICE PER LINEAR METER OF THE STORM SEWER REMOVAL WITH THE SIZE SPECIFIED.

ANY DAMAGE TO SIGNS DURING CONSTRUCTION SHALL BE REPLACED IN KIND BY THE CONTRACTOR WITH NO ADDITIONAL COST TO THE DEPARTMENT.

SIGNS THAT NEEDS TO BE RELOCATED IN ORDER NOT TO INTERFERE WITH CONSTRUCTION ACTIVITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

THE CONTRACTOR SHALL MAINTAIN DRIVEWAY, FIELD ENTRANCE, AND SIDE ROAD ACCESS AT ALL TIMES AT THE LOCATIONS SHOWN ON THE PLANS OR WHERE DIRECTED BY THE ENGINEER. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR TEMPORARY ACCESS (PRIVATE ENTRANCE), TEMPORARY ACCESS (COMMERCIAL ENTRANCE), TEMPORARY ACCESS (FIELD ENTRANCE), AND TEMPORARY ACCESS (ROAD). EACH DRIVEWAY, FIELD ENTRANCE, AND SIDE ROAD SHALL ONLY BE MEASURED FOR PAYMENT ONCE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL RTE 83 (MILWAKEE AVE)

AT IL RTE 132 (GRAND AVE)

INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES

SCALE: DRAWN BY

DATE: 3/25/2010 CHECKED BY

3/25/2010
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galbannb

SUMMARY OF QUANTITIES

80% FED./20% STATE

CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
				I000-2A	IL 83 AT IL 132 Y031-1F	LAKE VILLA 100% Y031-3D	INTER-CONNECT IL 132 AT DEEP LAKE Y031-1F		
20101100	TREE TRUNK PROTECTION	EACH	15	15					
20101200	TREE ROOT PRUNING	EACH	15	15					
20201006	GRADING AND SHAPING SHOULDERS	UNIT	4	4					
M2800305	TEMPORARY DITCH CHECKS	METER	24	24					
28000500	INLET AND PIPE PROTECTION	EACH	64	64					
50500505	STUD SHEAR CONNECTORS	EACH	48	48					
51203200	TEST PILE METAL SHELLS	EACH	3	3					
60250200	CATCH BASINS TO BE ADJUSTED	EACH	2	2					
60255500	MANHOLES TO BE ADJUSTED	EACH	3	3					
60500040	REMOVING MANHOLES	EACH	14	14					
60500050	REMOVING CATCH BASINS	EACH	25	25					
60500060	REMOVING INLETS	EACH	1	1					
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	11	11					
67100100	MOBILIZATION	L SUM	1	1					
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	3	3					
70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.50	0.25		0.25		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	304	304					
* 78100105	TEMPORARY RAISED REFLECTIVE PAVEMENT (BRIDGE)	EACH	40	40					
* 78100200	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	EACH	172	172					
* 78200420	GUARDRAIL MARKERS, TYPE B	EACH	4	4					
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2					
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	280	280					
* 81400100	HANDHOLE	EACH	7		7				
* 81400200	HEAVY-DUTY HANDHOLE	EACH	4		4				
* 81400300	DOUBLE HANDHOLE	EACH	2		2				
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1		1				
* 85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1		1				
* 87900200	DRILL EXISTING HANDHOLE	EACH	1		1				
* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9		9				
* 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2		2				
* 88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2		2				
* 88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1		1				
* 88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1		1				
* 88102717	PEDESTRIAN SIGNAL HEAD, LED 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4		4				
* 88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2		2				

* SPECIALTY ITEMS

Δ NON-PARTICIPATING ITEMS

SUMMARY OF QUANTITIES

80% FED./20% STATE

CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
				I000-2A	IL 83 AT IL 132 Y031-1F	LAKE VILLA 100% Y031-3D	INTER-CONNECT IL 132 AT DEEP LAKE Y031-1F		
* 88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8		8				
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	8		8				
* 88700200	LIGHT DETECTOR	EACH	2			2			
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	1			1			
* 88800100	PEDESTRIAN PUSH-BUTTON	EACH	8		8				
* 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1				
M2010110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	48	48					
M2010210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	325	325					
M2020010	EARTH EXCAVATION	CU M	3586	3586					
M2080150	TRENCH BACKFILL	CU M	3936.60	3936.60					
M2021200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU M	510	510					
M2070420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU M	800	800					
M2101000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ M	2600	2600					
M2113100	TOPSOIL FURNISH AND PLACE, 100MM	SQ M	3255	3255					
M2500210	SEEDING, CLASS 2A	HA	0.50	0.50					
M2500400	NITROGEN FERTILIZER NUTRIENT	KG	35	35					
M2500500	PHOSPHORUS FERTILIZER NUTRIENT	KG	35	35					
M2500600	POTASSIUM FERTILIZER NUTRIENT	KG	35	35					
M2510630	EROSION CONTROL BLANKET	SQ M	3255	3255					
M2520110	SODDING, SALT TOLERANT	SQ M	3255	3255					
M2520200	SUPPLEMENTAL WATERING	UNIT	39	39					
M2800250	TEMPORARY EROSION CONTROL SEEDING	KG	500	500					
M2800400	PERIMETER EROSION BARRIER	METER	623	623					
M3550450	HOT-MIX ASPHALT BASE COURSE, 150MM	SQ M	565	565					
M3550500	HOT-MIX ASPHALT BASE COURSE, 200MM	SQ M	2011	2011					
M3550570	HOT-MIX ASPHALT BASE COURSE, 270MM	SQ M	2550	2550					
M4060200	BITUMINOUS MATERIALS (PRIME COAT)	M TON	17	17					
M4060300	AGGREGATE (PRIME COAT)	M TON	81	81					
M4060400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	M TON	42	42					
M4060895	CONSTRUCTING TEST STRIP	EACH	2	2					
M4060982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ M	60	60					
M4063085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	M TON	2715	2715					
M4063310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	M TON	265	265					
M4063340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	M TON	2033	2033					
M4205200	PROTECTIVE COAT	SQ M	4975	4975					
M4240125	PORTLAND CEMENT CONCRETE SIDEWALK 125MM	SQ M	980	980					
M4248000	DETECTABLE WARNINGS	SQ M	15	15					
M4400750	HOT-MIX ASPHALT SURFACE REMOVAL, 50MM	SQ M	15995	15995					
M4402000	PAVEMENT REMOVAL	SQ M	1185	1185					
M4402010	DRIVEWAY PAVEMENT REMOVAL	SQ M	2505	2505					

* SPECIALTY ITEMS

Δ NON-PARTICIPATING ITEMS

Rev.

FILE NAME = c:\pw_work\PWIDOT\GALBANNE\d0108064\PI104498_design2.dgn	USER NAME = galbannb	DESIGNED	REVISED -
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	PLOT SCALE = 156.496 m / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/18/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS 83 (MILWAUKEE AVE) AT ILLINOIS 132 (GRAND AVE)
SUMMARY OF QUANITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	4
		CONTRACT NO. 60931		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

80% FED./20% STATE

CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE: I000-2A	IL 83 AT IL 132 Y031-1F	LAKE VILLA 100% Y031-3D	INTER-CONNECT IL 132 AT DEEP LAKE Y031-1F		
M4402020	CURB REMOVAL	METER	900	900					
M4402040	COMBINATION CURB AND GUTTER REMOVAL	METER	1660	1660					
M4402050	SIDEWALK REMOVAL	SQ M	2850	2850					
M4402530	PAVED SHOULDER REMOVAL	SQ M	1450	1450					
M4402115	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ M	1624	1624					
M4812000	AGGREGATE SHOULDERS, TYPE B	M TON	10	10					
M4820600	HOT-MIX ASPHALT SHOULDERS, 200MM	SQ M	435	435					
M5010240	CONCRETE REMOVAL	CU M	83.50	83.50					
M5010522	PIPE CULVERT REMOVAL	METER	19	19					
M5020100	STRUCTURE EXCAVATION	CU M	625	625					
M5030350	CONCRETE STRUCTURES	CU M	95.60	95.60					
M5030360	CONCRETE SUPERSTRUCTURE	CU M	282.80	282.80					
M5030390	BRIDGE DECK GROOVING	SQ M	1964	1964					
M5080205	REINFORCEMENT BARS, EPOXY COATED	KG	37504	37504					
M5070209	UNTREATED TIMBER LAGGING	SQ M	22.70	22.70					
M5090530	PARAPET RAILING	METER	95	95					
M5120129	FURNISHING METAL SHELL PILES 305MM X 6.35MM	METER	672	672					
M5120335	DRIVING PILES	METER	672	672					
M5429910	CONCRETE COLLAR	CU M	0.50	0.50					
M542E112	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 300MM	EACH	2	2					
M542E116	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 375MM	EACH	2	2					
M542H025	PIPE CULVERTS, CLASS A, TYPE 1 375MM	METER	10	10					
M5500030	STORM SEWERS, CLASS A, TYPE 1 300MM	METER	117.50	117.50					
M5500040	STORM SEWERS, CLASS A, TYPE 1 375MM	METER	67	67					
M5500050	STORM SEWERS, CLASS A, TYPE 1 450MM	METER	65.50	65.50					
M5500430	STORM SEWERS, CLASS A, TYPE 2 300MM	METER	41.50	41.50					
M5500440	STORM SEWERS, CLASS A, TYPE 2 375MM	METER	242	242					
M5500450	STORM SEWERS, CLASS A, TYPE 2 450MM	METER	259	259					
M5500460	STORM SEWERS, CLASS A, TYPE 2 525MM	METER	85	85					
M5500465	STORM SEWERS, CLASS A, TYPE 2 600MM	METER	69	69					
M5500475	STORM SEWERS, CLASS A, TYPE 2 750MM	METER	180	180					
M5500485	STORM SEWERS, CLASS A, TYPE 2 900MM	METER	67	67					
M5500830	STORM SEWERS, CLASS A, TYPE 3 300MM	METER	108	108					
M5500885	STORM SEWERS, CLASS A, TYPE 3 900MM	METER	71	71					
△ M5504800	STORM SEWERS TO BE CLEANED	METER	45	45					
M5510020	STORM SEWER REMOVAL 250MM	METER	351	351					
M5510025	STORM SEWER REMOVAL 300MM	METER	367	367					
M5510045	STORM SEWER REMOVAL 450MM	METER	134	134					
M5510055	STORM SEWER REMOVAL 525MM	METER	53	53					
M5510060	STORM SEWER REMOVAL 600MM	METER	119	119					
M5510065	STORM SEWER REMOVAL 675MM	METER	65	65					
M5510070	STORM SEWER REMOVAL 750MM	METER	145	145					

* SPECIALTY ITEMS

△ NON-PARTICIPATING ITEMS

SUMMARY OF QUANTITIES

80% FED./20% STATE

CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE: I000-2A	IL 83 AT IL 132 Y031-1F	LAKE VILLA 100% Y031-3D	INTER-CONNECT IL 132 AT DEEP LAKE Y031-1F		
M552A010	STORM SEWERS JACKED IN PLACE, CLASS A, 300MM	METER	17	17					
M6010605	PIPE UNDERDRAINS 100MM	METER	150	150					
M6011100	PIPE UNDERDRAIN FOR STRUCTURES 100MM	METER	9.50	9.50					
M6020105	CATCH BASINS, TYPE A, 1.2M DIAMETER, TYPE I FRAME, OPEN LID	EACH	1	1					
M600185	CATCH BASINS, TYPE A, 1.2M DIAMETER, TYPE 24 FRAME AND GRATE	EACH	34	34					
M6021410	MANHOLES, TYPE A, 1.2M DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	19	19					
M6021610	MANHOLES, TYPE A, 1.5M DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	9	9					
M6060020	CONCRETE CURB	METER	542	542					
M6060290	CONCRETE GUTTER, TYPE B	METER	95	95					
M6060700	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-15.60	METER	2430	2430					
M6062400	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-15.60	METER	17	17					
* M6300101	STEEL PLATE BEAM GUARDRAIL, TYPE A, 1.83M POSTS	METER	11.43	11.43					
M6320030	GUARDRAIL REMOVAL	METER	16	16					
M7030100	SHORT-TERM PAVEMENT MARKING	METER	1540	1540					
M7030210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ M	38	38					
M7030220	TEMPORARY PAVEMENT MARKING - LINE 100MM	METER	3919	3919					
M7030240	TEMPORARY PAVEMENT MARKING - LINE 150MM	METER	992	992					
M7030260	TEMPORARY PAVEMENT MARKING - LINE 300MM	METER	85	85					
M7030280	TEMPORARY PAVEMENT MARKING - LINE 600MM	METER	81	81					
M7030520	PAVEMENT MARKING TAPE, TYPE III 100MM	METER	10925	10925					
M7031000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ M	1928	1928					
* M7200100	SIGN PANEL-TYPE 1	SQ M	2.94		2.94				
* M7800100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ M	31	31					
* M7800105	THERMOPLASTIC PAVEMENT MARKING - LINE 100MM	METER	3534	3534					
* M7800115	THERMOPLASTIC PAVEMENT MARKING - LINE 150MM	METER	830	830					
* M7800125	THERMOPLASTIC PAVEMENT MARKING - LINE 300MM	METER	85	85					
* M7800140	THERMOPLASTIC PAVEMENT MARKING - LINE 600MM	METER	81	81					
* M7800700	PREFORMED THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ M	7	7					
* M7800705	PREFORMED THERMOPLASTIC PAVEMENT MARKING - LINE 100MM	METER	385	385					
* M7800715	PREFORMED THERMOPLASTIC PAVEMENT MARKING - LINE 150MM	METER	162	162					
* M8100060	CONDUIT IN TRENCH, 50MM DIA., GALVANIZED STEEL	METER	478		320		158		
* M8100070	CONDUIT IN TRENCH, 65MM DIA., GALVANIZED STEEL	METER	42		42				

* SPECIALTY ITEMS

△ NON-PARTICIPATING ITEMS

FILE NAME = c:\pw_work\PWIDOT\GALBANNB\d0108064\PI04498-desfin2.dgn	USER NAME = galbannb	DESIGNED -	REVISED -
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	PLOT SCALE = 15.6496 m / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/12/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS 83 (MILWAUKEE AVE) AT ILLINOIS 132 (GRAND AVE)
SUMMARY OF QUANITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	5
		CONTRACT NO. 60931		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE (80% FED. / 20% STATE) I000-2A	IL 83 AT IL 132 Y031-1F	LAKE VILLA 100% Y031-3D	INTER-CONNECT IL 132 AT DEEP LAKE (80% FED. 20% STATE) Y031-1F
* M8100100	CONDUIT IN TRENCH, 100MM DIA., GALVANIZED STEEL	METER	1.50		1.50		
* M8101090	CONDUIT PUSHED, 100MM DIA., GALVANIZED STEEL	METER	197		197		
* M8190200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	448		290		158
* M8731210	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	METER	301		301		
* M8731220	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	METER	600		600		
* M8731240	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	METER	800		800		
* M8731250	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	METER	180		180		
* M8731300	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	METER	708		708		
* M8731800	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	METER	30		30		
* M8750510	TRAFFIC SIGNAL POST, GALVANIZED STEEL 4.85 METER	EACH	2		2		
* M8770065	STEEL MAST ARM ASSEMBLY AND POLE, 11.58 METER	EACH	2		2		
* M8780100	CONCRETE FOUNDATION, TYPE A	METER	7.20		7.20		
* M8780150	CONCRETE FOUNDATION, TYPE C	METER	1.20		1.20		
* M8780400	CONCRETE FOUNDATION, TYPE E 750MM DIAMETER	METER	9.20		9.20		
* M8860100	DETECTOR LOOP, TYPE I	METER	220		220		
MX030063	STORM SEWERS (WATER MAIN REQUIREMENTS) 300mm	METER	105.50			105.50	
MX030199	TEMPORARY PAVEMENT	SQ M	1565	1565			
MX032178	TEMPORARY INFORMATION SIGNING	SQ M	24.87	9.20			15.67
MX032179	SILICONE JOINT SEALER, 25MM	METER	108.30	108.30			
* MX032922	ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1C	METER	202		202		
MX033276	TEMPORARY SOIL RETENTION SYSTEM	SQ M	27	27			
* MX033445	DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CU M	8.20	8.20			
MX033710	STEEL CASING PIPE, AUGERED AND JACKED, 600mm	METER	16.50	16.50			
MX606050	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-5.60	METER	44	44			
* MX873030	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	METER	103			103	
MZ001050	AGGREGATE SUBGRADE 300mm	SQ M	8107	8107			
MZ016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ M	20	20			
MZ016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ M	20	20			
Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL II	EACH	1				1
* Z0073510	TEMPORARY (TRAFFIC) SIGNAL TIMING	EACH	1		1		
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	12	12			
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	33	33			
* X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		1		
* X8620020	UNINTERRUPTABLE POWER SUPPLY	EACH	1		1		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1			
△ Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	5	5			

* SPECIALTY ITEMS

△ NON-PARTICIPATING ITEMS

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE (80% FED. / 20% STATE) I000-2A	IL 83 AT IL 132 Y031-1F	LAKE VILLA 100% Y031-3D	INTER-CONNECT IL 132 AT DEEP LAKE (80% FED. 20% STATE) Y031-1F
M4428042	CLASS D PATCHES, TYPE I, 305MM	SQ M	30	30			
M4428242	CLASS D PATCHES, TYPE II, 305MM	SQ M	306	306			
M4428342	CLASS D PATCHES, TYPE III, 305MM	SQ M	540	540			
M4428442	CLASS D PATCHES, TYPE IV, 305MM	SQ M	612	612			
~~MX033795~~	~~DRIVING AND FILLING SHELLS~~	~~METER~~	~~672~~	~~672~~			
MX033796	BRIDGE DECK LATEX CONCRETE OVERLAY (65MM)	SQ M	2043	2043			
~~M4400750~~	~~HOT-MIX ASPHALT SURFACE REMOVAL, 38MM~~	~~SQ M~~	~~1624~~	~~1624~~			
MX033797	HOT-MIX ASPHALT SIDEWALK	SQ M	1545	1545			
MZ006012	BRIDGE DECK HYDRO-SCARIFICATION (15MM)	SQ M	1624	1624			
M6024065	INLETS, TYPE A, 600MM DIAMETER WITH TYPE 24 FRAME AND GRATE	EACH	1	1			
* M8780420	CONCRETE FOUNDATION, TYPE E 1060MM DIAMETER	METER	12.80		12.80		
M5120250	FURNISHING SOLDIER PILES (HP SECTIONS)	METER	31.20	31.20			
MX620237	CATCH BASINS, TYPE C, 600MM DIAMETER, WITH TYPE 8 GRATE	EACH	6	6			
* M8770105	STEEL MAST ASSEMBLY AND POLE, 17.07 METER	EACH	1		1		
* M8770115	STEEL MAST ASSEMBLY AND POLE, 18.28 METER	EACH	1		1		

* SPECIALTY ITEMS

△ NON-PARTICIPATING ITEMS

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	PLOT SCALE = 15.2400 m / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/22/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS 83 (MILWAUKEE AVE) AT ILLINOIS 132 (GRAND AVE)
SUMMARY OF QUANITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	6
		CONTRACT NO. 60931		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

*REF-
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	7
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60931

TREE REMOVAL SCHEDULE
IL 83 (MILWAUKEE AVE)

LOCATION STATION	OFFSETS (METER)	SIZE (CENTIMETERS) DESCRIPTION		REASON FOR REMOVAL
		6 to 15 UNITS	OVER 15 UNITS	
2 + 734	8.340 RT	26		WITHIN PROP PCC SIDEWALK
2 + 748	9.361 RT		46	DEAD
2 + 761	9.610 RT		84	DEAD
2 + 763	8.5 RT		73	WITHIN PROP PCC SIDEWALK
2 + 773	8.5 RT		73	WITHIN PROP PCC SIDEWALK
2 + 775	8.5 RT		73	WITHIN PROP PCC SIDEWALK
2 + 790	8.5 RT		73	WITHIN PROP PCC SIDEWALK
2+ 796	9.459 RT		86	WITHIN PROP ENTRANCE
3 + 192	10.953 RT	23		WITHIN PROP GRADING AREA
3 + 192	10.953 RT	28		WITHIN PROP GRADING AREA
3 + 262	10.043 LT	41		WITHIN PROP HMA SIDEWALK
3 + 324	11.836 RT		55	WITHIN PROP HEADWALL
3 + 327	9.796 RT		55	WITHIN PROP SPBGR
3 + 331	9.616 RT		55	WITHIN PROP SPBGR
3 + 334	9.722 RT		55	WITHIN PROP SPBGR
TOTAL	(CM)	118 CM	728 CM	
TOTAL	(UNITS)	48 UNITS	292 UNITS	

TREE REMOVAL SCHEDULE
IL132 (GRAND AVE)

LOCATION STATION	OFFSETS (METER)	SIZE (CENTIMETERS) DESCRIPTION		REASON FOR REMOVAL
		6 to 15 UNITS	OVER 15 UNITS	
0 + 842	10.607 RT		83	WIDENING AREA
TOTAL	(CM)	0 CM	83 CM	
TOTAL	(UNITS)	0 UNIT	33 UNITS	

TREE TRUNK PROTECTION SCHEDULE
IL 83 (MILWAUKEE AVENUE)

LOCATION STATION	OFFSETS (METER)	QUANTITY (EACH)	REASON FOR PROTECTION
2 + 883	10.748 RT	1	HIGH QUALITY
2 + 585	12.234 LT	1	BUSINESS OWNER WANTS TO SAVE
2 + 597	10.643 LT	1	BUSINESS OWNER WANTS TO SAVE
2 + 601	10.033 LT	1	BUSINESS OWNER WANTS TO SAVE
2 + 621	10.171 LT	1	BUSINESS OWNER WANTS TO SAVE
2 + 644	9.389 LT	1	BUSINESS OWNER WANTS TO SAVE
2 + 686	9.151 LT	1	HIGH QUALITY
2 + 704	9.904 LT	1	HIGH QUALITY
2 + 710	10.138 LT	1	HIGH QUALITY
	TOTAL	10 EA.	

TREE TRUNK PROTECTION SCHEDULE
IL 132 (GRAND AVENUE)

LOCATION STATION	OFFSETS (METER)	QUANTITY (EACH)	REASON FOR PROTECTION
0 + 711	10.885 LT	1	HIGH QUALITY
0 + 714	10.772 LT	1	HIGH QUALITY
0 + 726	10.170 LT	1	HIGH QUALITY
0 + 778	9.773 LT	1	HIGH QUALITY
0 + 809	10.45 LT	1	HIGH QUALITY
	TOTAL	5 EA.	

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL RTE 83 (MILWAKEE AVE)
AT IL RTE 132 (GRAND AVE)
QUANTITY SCHEDULES

SCALE: DRAWN BY

DATE: 3/12/2010 CHECKED BY

3/12/2010
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	8
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60931

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT

MIXTURE USE	AIR VOIDS (%)
MAINLINE RESURFACING	
HMA SURFACE COURSE MIX "D" N70 (IL 9.5 mm), 50 mm	4% @ 70 Gyr.
PROFILE CORRECTION	
HMA BINDER COURSE IL-19.0, N70 (THICKNESS VARIES)	4% @ 70 Gyr.
TEMPORARY PAVEMENT	
TEMPORARY PAVEMENT (HMA BINDER IL-19 mm), 222 mm	4% @ 50 Gyr.
HMA SURFACE COURSE MIX "D" N50 (IL-9.5 mm), 38 mm	4% @ 50 Gyr.
WIDENING AREA	
HMA SURFACE COURSE, MIX "D" N70 (IL 9.5 mm), 50 mm	4% @ 70 Gyr.
HMA BASE COURSE (HMA BINDER IL-19 mm), 270 mm	4% @ 70 Gyr.
HMA SHOULDER	
HMA SHOULDER, 200 mm	2% @ 30 Gyr.
PATCHING	
CLASS D PATCH (HMA BINDER IL-19 mm), 305 mm	4% @ 70 Gyr.
HMA ENTRANCES (CE/PE)	
HMA SURFACE COURSE, MIX "C" N50 (IL 9.5 mm), 50 mm	4% @ 50 Gyr.
HMA BASE COURSE (HMA BINDER IL-19 mm), 200 mm & 150 mm	4% @ 50 Gyr.
HMA SIDEWALK	
HMA SURFACE COURSE, MIX "C" N50 (IL 9.5 mm), 50 mm	4% @ 50 Gyr.
HMA BASE COURSE (HMA BINDER IL-19 mm), 100 mm	4% @ 50 Gyr.

NOTE:

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 2.430 KG PER SQUARE METER - MILLIMETER (112 POUNDS PER SQUARE YARD - INCH).

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

EARTHWORK SCHEDULE FOR IL 83 (MILWAUKEE AVENUE)

LOCATION (1)	EARTH EXCAVATION (2)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (3)	EMBANKMENT (4)	EMBANKMENT BALANCE WASTE (+) OR SHORTAGE (-) (5)
	CUBIC METER	CUBIC METER	CUBIC METER	CUBIC METER
STA. 2+550 TO 2+700	215.250	182.962	75.000	+107.962
STA. 2+700 TO 2+850	454.500	386.325	93.500	+292.825
STA. 2+850 TO 3+000	459.000	390.150	120.000	+270.150
STA. 3+000 TO 3+150	541.250	460.062	75.000	+385.062
STA. 3+150 TO 3+250	236.000	200.600	59.750	+140.850
STA. 3+250 TO 3+325	147.500	125.375	50.000	+75.375
TOTAL	2053.500	1745.474	473.250	+1272.224

NOTE:

COLUMN 1, 2 & 4 = LOCATION AND QUANTITIES FROM CROSS SECTION
CUT = EARTH EXCAVATION FILL = EMBANKMENT

COLUMN 3 = QUANTITY OF EARTH EXCAVATION (CUT) ADJUSTED FOR A SHRINKAGE FACTOR OF 15%

COLUMN 5 = EARTHWORK REQUIRED.
(-) = QUANTITY OF FILL OR EMBANKMENT NEEDED
(+) = QUANTITY TO BE WASTED

* SINCE THE EARTH EXCAVATION QUANTITY IS GREATER THAN EMBANKMENT. NEEDED ONLY PAY ITEM FOR EARTH EXCAVATION, NO PAY ITEM FOR BORROW OR FURNISHED EXCAVATION IS NEEDED.

EARTHWORK SCHEDULE FOR IL 132 (GRAND AVENUE)

LOCATION (1)	EARTH EXCAVATION (2)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (3)	EMBANKMENT (4)	EMBANKMENT BALANCE WASTE (+) OR SHORTAGE (-) (5)
	CUBIC METER	CUBIC METER	CUBIC METER	CUBIC METER
STA. 0+675 TO 0+825	311.250	264.562	20.500	+244.062
STA. 0+825 TO 0+975	359.000	224.878	112.500	+112.378
STA. 0+975 TO 1+125	410.875	349.240	54.250	+294.990
STA. 1+125 TO 1+275	438.750	372.938	173.500	+199.438
STA. 1+275 TO 1+300	12.500	10.625	12.500	-1.875
TOTAL	1532.375	1222.243	373.250	+848.993

NOTE:

COLUMN 1, 2 & 4 = LOCATION AND QUANTITIES FROM CROSS SECTION
CUT = EARTH EXCAVATION FILL = EMBANKMENT

COLUMN 3 = QUANTITY OF EARTH EXCAVATION (CUT) ADJUSTED FOR A SHRINKAGE FACTOR OF 15%

COLUMN 5 = EARTHWORK REQUIRED.
(-) = QUANTITY OF FILL OR EMBANKMENT NEEDED
(+) = QUANTITY TO BE WASTED

* SINCE THE EARTH EXCAVATION QUANTITY IS GREATER THAN EMBANKMENT. NEEDED ONLY PAY ITEM FOR EARTH EXCAVATION, NO PAY ITEM FOR BORROW OR FURNISHED EXCAVATION IS NEEDED.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL RTE 83 (MILWAKEE AVE)
AT IL RTE 132 (GRAND AVE)
QUANTITY SCHEDULE
& MIXTURE REQUIREMENT TABLES

SCALE: DRAWN BY

DATE: 3/12/2010 CHECKED BY

3/12/2010
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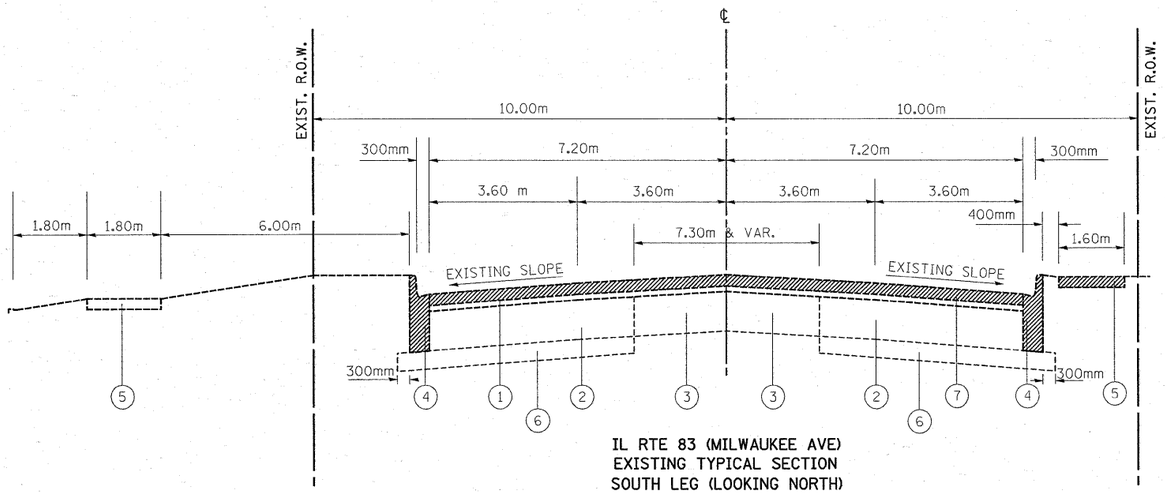
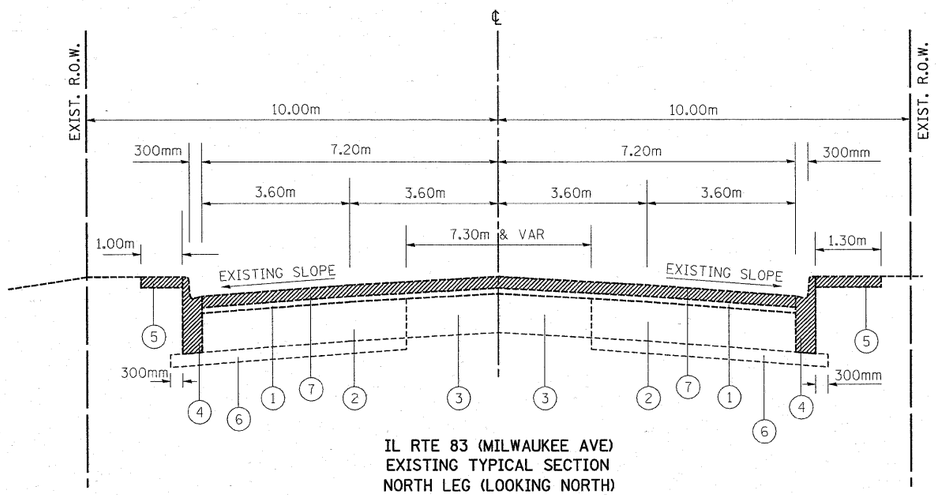
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	9
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60931



IL RTE 83 (MILWAUKEE AVE)
EXISTING TYPICAL SECTION
SOUTH LEG (LOOKING NORTH)



IL RTE 83 (MILWAUKEE AVE)
EXISTING TYPICAL SECTION
NORTH LEG (LOOKING NORTH)

LEGEND

1. EXISTING HOT-MIX ASPHALT SURFACING, 114mm
2. EXISTING HOT-MIX ASPHALT BASE COURSE, 260mm
3. EXISTING PCC BASE COURSE, 260mm
4. EXISTING CURB AND GUTTER, TYPE B-15.30
5. EXISTING SIDEWALK
6. EXISTING AGGREGATE BASE COURSE, TYPE B
7. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 50mm
8. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 50mm
9. PROPOSED HMA BASE COURSE, 270mm
10. PROPOSED AGGREGATE SUBGRADE, 300mm
11. PROPOSED COMBINATION CONCRETE CURB AND GUTTER TYPE B-15.60
12. PROPOSED PCC SIDEWALK, 125mm
13. PROPOSED HOT-MIX ASPHALT SIDEWALK, 150mm

NOTE:

"THE CONTRACTOR SHALL MILL FIRST PRIOR TO PATCHING".

ADDITIONAL SUB-BASE GRANULAR MATERIAL UNDER PROPOSED CURB AND GUTTER SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE CONSIDERED AS INCLUDED IN THE COST PER SQUARE METER OF SUB-BASE GRANULAR MATERIAL, TYPE B, 100mm

ANY SAW CUTTING REQUIRED TO REMOVE AN ITEM ADJACENT TO AN ITEM TO BE SAVE WILL BE CONSIDERED AS PART OF THE REMOVAL ITEM AND WILL NOT BE PAID FOR SEPARATELY.

PLACEMENT OF TIE BARS FOR COMBINATION CONCRETE CURB & GUTTER SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE CONSIDERED AS INCLUDED IN THE COST PER LINEAR METER OF COMBINATION CONCRETE CURB & GUTTER, TYPE B-15.60

DENOTES REMOVAL ITEM SEE PLAN SHEETS FOR EXACT LOCATIONS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL RTE 83 (MILWAKEE AVE)
AT IL RTE 132 (GRAND AVE)
EXISTING TYPICAL SECTION

SCALE: DRAWN BY
DATE: 3/12/2010 CHECKED BY

3/12/2010
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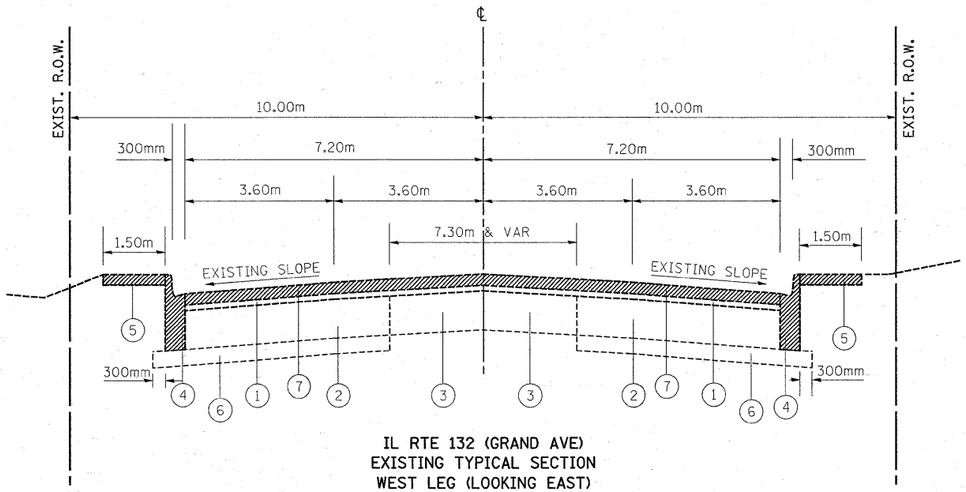
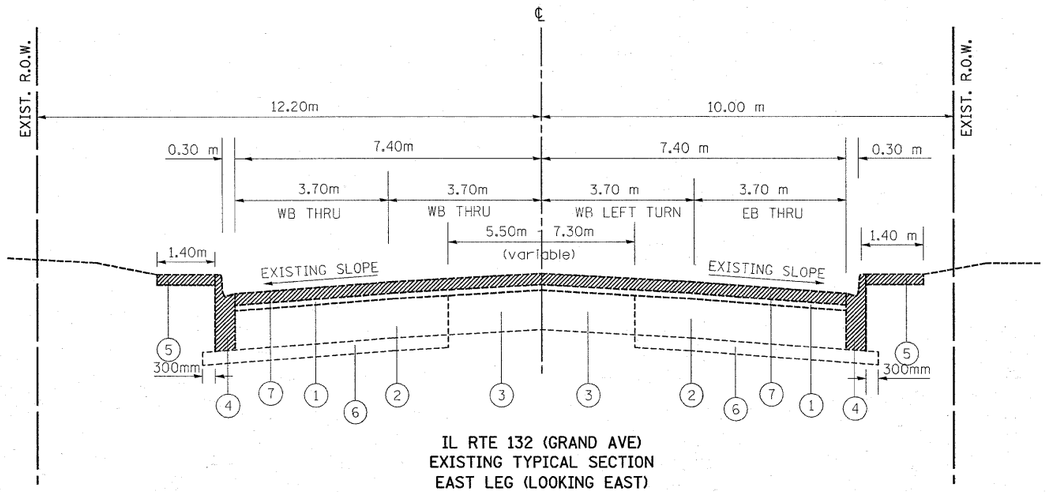
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	10
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60931



IL RTE 132 (GRAND AVE)
EXISTING TYPICAL SECTION
WEST LEG (LOOKING EAST)



IL RTE 132 (GRAND AVE)
EXISTING TYPICAL SECTION
EAST LEG (LOOKING EAST)

LEGEND

1. EXISTING HOT-MIX ASPHALT SURFACING, 114mm
2. EXISTING HOT-MIX ASPHALT BASE COURSE, 260mm
3. EXISTING PCC BASE COURSE, 260mm
4. EXISTING CURB AND GUTTER, TYPE B-15.30
5. EXISTING SIDEWALK
6. EXISTING AGGREGATE BASE COURSE, TYPE B
7. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 50mm
8. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 50mm
9. PROPOSED HMA BASE COURSE, 270mm
10. PROPOSED AGGREGATE SUBGRADE, 300mm
11. PROPOSED COMBINATION CONCRETE CURB AND GUTTER TYPE B-15.60
12. PROPOSED PCC SIDEWALK, 125mm
13. PROPOSED HOT-MIX ASPHALT SIDEWALK, 150mm

NOTE:

"THE CONTRACTOR SHALL MILL FIRST PRIOR TO PATCHING".

ADDITIONAL SUB-BASE GRANULAR MATERIAL UNDER PROPOSED CURB AND GUTTER SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE CONSIDERED AS INCLUDED IN THE COST PER SQUARE METER OF SUB-BASE GRANULAR MATERIAL, TYPE B, 100mm

ANY SAW CUTTING REQUIRED TO REMOVE AN ITEM ADJACENT TO AN ITEM TO BE SAVE WILL BE CONSIDERED AS PART OF THE REMOVAL ITEM AND WILL NOT BE PAID FOR SEPARATELY.

PLACEMENT OF TIE BARS FOR COMBINATION CONCRETE CURB & GUTTER SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE CONSIDERED AS INCLUDED IN THE COST PER LINEAR METER OF COMBINATION CONCRETE CURB & GUTTER, TYPE B-15.60

DENOTES REMOVAL ITEM SEE PLAN SHEETS FOR EXACT LOCATIONS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL RTE 83 (MILWAKEE AVE)
AT IL RTE 132 (GRAND AVE)
EXISTING TYPICAL SECTION

SCALE: DRAWN BY

DATE: 3/12/2010 CHECKED BY

3/12/2010
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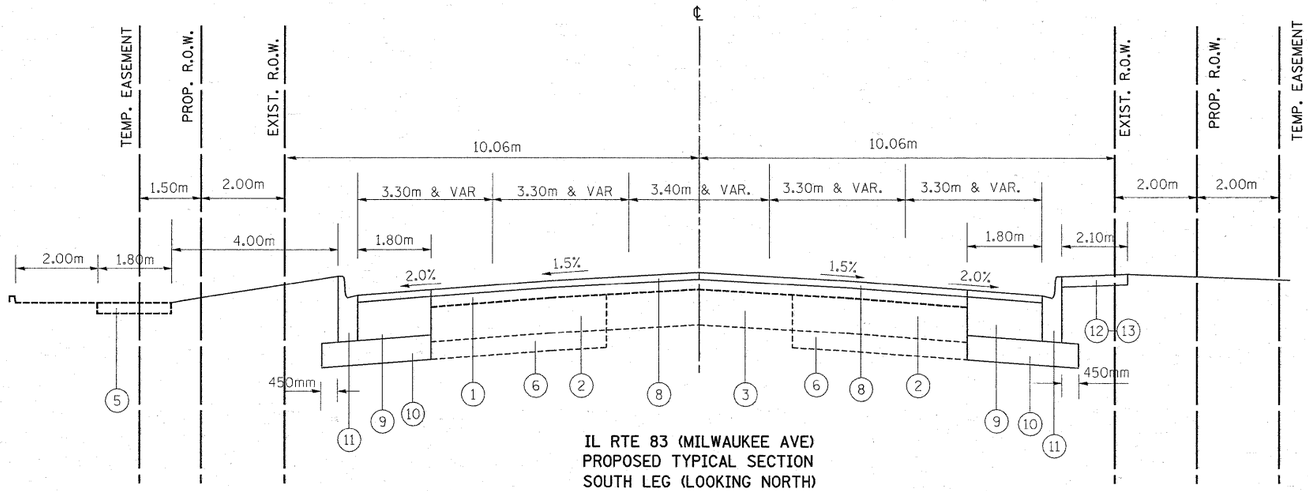
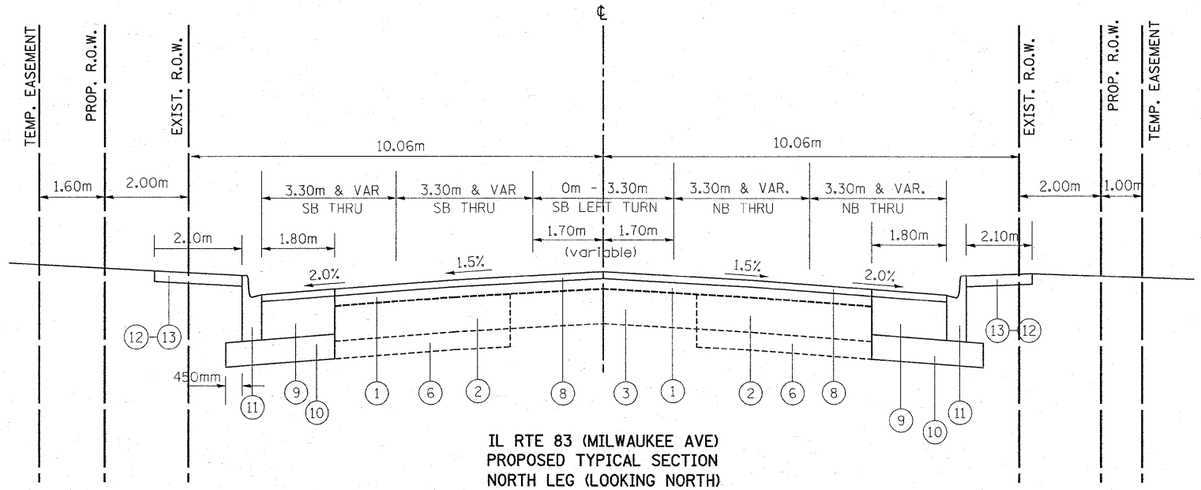
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	11
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60931



IL RTE 83 (MILWAUKEE AVE)
PROPOSED TYPICAL SECTION
SOUTH LEG (LOOKING NORTH)



IL RTE 83 (MILWAUKEE AVE)
PROPOSED TYPICAL SECTION
NORTH LEG (LOOKING NORTH)

LEGEND

1. EXISTING HOT-MIX ASPHALT SURFACING, 114mm
2. EXISTING HOT-MIX ASPHALT BASE COURSE, 260mm
3. EXISTING PCC BASE COURSE, 260mm
4. EXISTING CURB AND GUTTER, TYPE B-15.30
5. EXISTING SIDEWALK
6. EXISTING AGGREGATE BASE COURSE, TYPE B
7. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 50mm
8. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 50mm
9. PROPOSED HMA BASE COURSE, 270mm
10. PROPOSED AGGREGATE SUBGRADE, 300mm
11. PROPOSED COMBINATION CONCRETE CURB AND GUTTER TYPE B-15.60
12. PROPOSED PCC SIDEWALK, 125mm
13. PROPOSED HOT-MIX ASPHALT SIDEWALK, 150mm

NOTE:

"THE CONTRACTOR SHALL MILL FIRST PRIOR TO PATCHING".

ADDITIONAL SUB-BASE GRANULAR MATERIAL UNDER PROPOSED CURB AND GUTTER SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE CONSIDERED AS INCLUDED IN THE COST PER SQUARE METER OF SUB-BASE GRANULAR MATERIAL, TYPE B, 100mm

ANY SAW CUTTING REQUIRED TO REMOVE AN ITEM ADJACENT TO AN ITEM TO BE SAVE WILL BE CONSIDERED AS PART OF THE REMOVAL ITEM AND WILL NOT BE PAID FOR SEPARATELY.

PLACEMENT OF TIE BARS FOR COMBINATION CONCRETE CURB & GUTTER SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE CONSIDERED AS INCLUDED IN THE COST PER LINEAR METER OF COMBINATION CONCRETE CURB & GUTTER, TYPE B-15.60

DENOTES REMOVAL ITEM SEE PLAN SHEETS FOR EXACT LOCATIONS.

NOTE:

"FOR SECTIONS WITH PROFILE CORRECTION ADD HMA BINDER COURSE, IL-19.0, N70".

PIPE UNDERDRAIN LOCATIONS:

IL 83
STA. 2+825 TO STA 2+850, LT
STA. 2+900 TO STA. 2+925, RT.
STA. 2+975 TO STA. 3+000, LT.
STA. 3+050 TO STA. 3+075, LT.

IL 132
STA. 0+800 TO STA. 0+825, RT.
STA. 1+125 TO STA. 1+150, LT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL RTE 83 (MILWAKEE AVE)
AT IL RTE 132 (GRAND AVE)
PROPOSED TYPICAL SECTION

SCALE: DRAWN BY
DATE: 3/12/2010 CHECKED BY

3/12/2010
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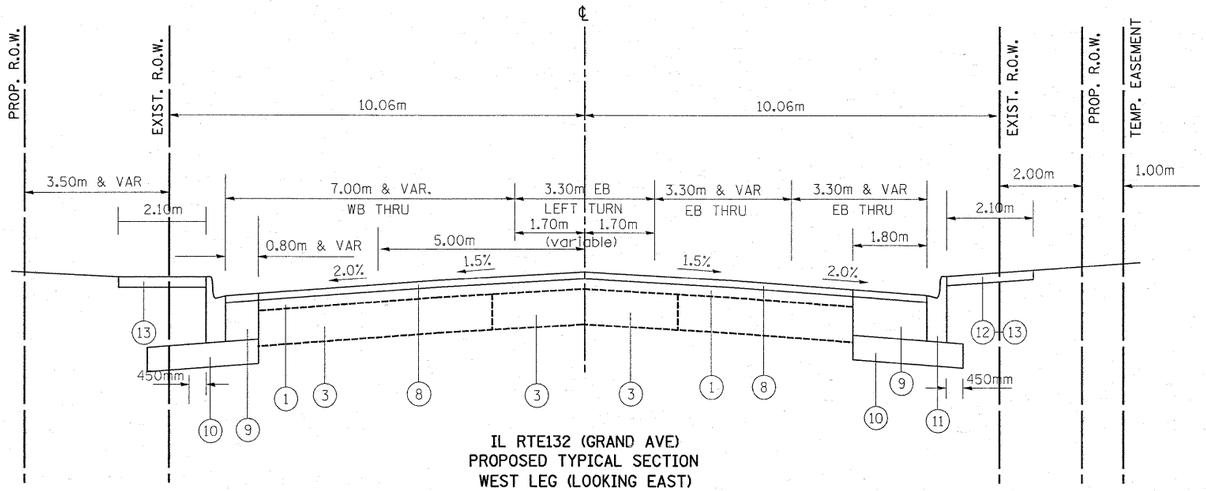
galbannb

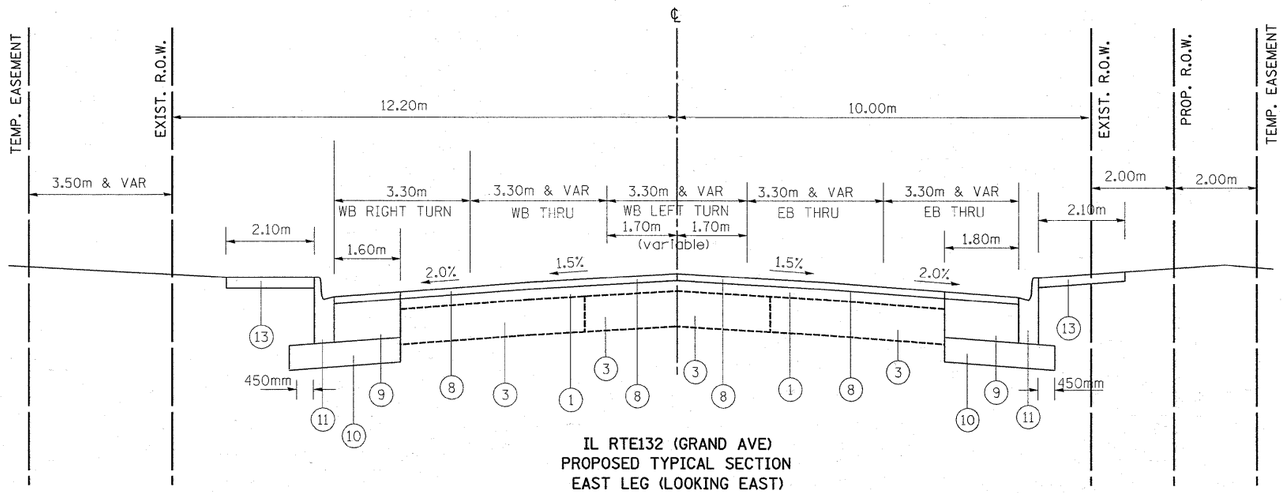
*REF-
*REF-
*REF-

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	12
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60931



IL RTE132 (GRAND AVE)
PROPOSED TYPICAL SECTION
WEST LEG (LOOKING EAST)



IL RTE132 (GRAND AVE)
PROPOSED TYPICAL SECTION
EAST LEG (LOOKING EAST)

LEGEND

1. EXISTING HOT-MIX ASPHALT SURFACING, 114mm
2. EXISTING HOT-MIX ASPHALT BASE COURSE, 260mm
3. EXISTING PCC BASE COURSE, 260mm
4. EXISTING CURB AND GUTTER, TYPE B-15.30
5. EXISTING SIDEWALK
6. EXISTING AGGREGATE BASE COURSE, TYPE B
7. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 50mm
8. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 50mm
9. PROPOSED HMA BASE COURSE, 270mm
10. PROPOSED AGGREGATE SUBGRADE, 300mm
11. PROPOSED COMBINATION CONCRETE CURB AND GUTTER TYPE B-15.60
12. PROPOSED PCC SIDEWALK, 125mm
13. PROPOSED HOT-MIX ASPHALT SIDEWALK, 150mm

NOTE:

"THE CONTRACTOR SHALL MILL FIRST PRIOR TO PATCHING".

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DENOTES REMOVAL ITEM SEE PLAN SHEETS FOR EXACT LOCATIONS.

NOTE:

"FOR SECTIONS WITH PROFILE CORRECTION ADD HMA BINDER COURSE, IL-19.0, N70".

PIPE UNDERDRAIN LOCATIONS:

IL 83
STA. 2+825 TO STA 2+850, LT
STA. 2+900 TO STA. 2+925, RT.
STA. 2+975 TO STA. 3+000, LT.
STA. 3+050 TO STA. 3+075, LT.

IL 132
STA. 0+800 TO STA. 0+825, RT.
STA. 1+125 TO STA. 1+150, LT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL RTE 83 (MILWAKEE AVE)
AT IL RTE 132 (GRAND AVE)
PROPOSED TYPICAL SECTION

SCALE:
DRAWN BY
DATE: 3/12/2010
CHECKED BY

3/12/2010
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galbannb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	13
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

BM * 400

A "□" CUT IN SOUTH WEST CORNER OF VENT
COVER SOUTH SIDE OF LIFT STATION ± 50m
EAST OF RTE 83 NORTH SIDE OF RTE 132
ELEV. 241.273

BM * 401

"X" CUT IN TOP OF EAST MOST BOLT ON
EAST BASE OF CITGO SIGN NORTH EAST
CORNER OF RTE 83 AND RTE 132
ELEV. 241.861

BM * 402

"X" CUT IN NORTH EASTERLY FLANGE BOLT
ON FIRST FIRE HYDRANT OF RTE 132 ON EAST
SIDE OF RTE 83
ELEV. 242.443

BM * 403

"X" CUT IN SOUTHEAST BOLT ON LIGHT POLE BASE
IN SERVICE STATION NORTHWEST CORNER OF
VILLA AVE. AND RTE. 83
ELEV. 242.911

BM * 404

"□" IN CORNER OF HEADWALL ± CENTER
OVER CREEK SOUTHEAST OF LAKE AVE.
AND RTE 83
ELEV. 239.863

BM * 405

"X " CUT IN NORTHWEST BOLT OF FIRE HYDRANT
SOUTH OF ENTRANCE DRIVE TO #300 CROSSING
PLAZA
ELEV. 246.216

BM * 410

" □ " CUT IN CONCRETE BASE OF CROSS GATE ℄ RR
NW CORNER OF BASE NORTH SIDE OF GRAND AVE.
ELEV. 244.212

BM * 411

"X" CUT IN BOLT ARROW POINTS TO ON FIRE HYDRANT
FLANGE FRONT OF 215 GRAND AVE (RTE 132)
ELEV. 244.130

BM * 412

"X" CUT ON BOLT ARROW POINT TO ON FIRE HYDRANT
FLANGE FRONT OF 227 GRAND AVE (RT. 132)
ELEV. 244.002

BM * 413

"X" CUT IN NORTH WESTERLY BOLT ON FLANGE OF
FH NORTH EAST CORNER OF FIRST AMERICAN BANK
BLDG. NORTH SIDE OF GRAND AVE (RTE 132)
ELEV. 241.350

BM * 414

"□" CUT IN NORTH END OF 760mm CONCRETE CULVERT
PIPE NORTH SIDE OF GRAND AVE. EAST OF FIRST
AMERICAN BANK
ELEV. 241.321

BM * 415

"X" CUT IN SOUTH WESTERLY BOLT OF FLANGE OF
FIRE HYDRANT WEST SIDE OF RTE 83 FRONT OF
CARPET CASTLE
ELEV. 244.689

BM * 16 D

"X" CUT IN TOP OF BOLT ARROW POINT
FIRST FIRE HYDRANT SOUTH OF SQUIRE'S
DRIVE EAST SIDE OF RTE 83
ELEV. 244.816

PT * 61

PK NAIL IN CRACK OF SOUTHWEST FRONT
OF CHURCH SOUTH OF CEDAR AVE
ELEV. 246.742

PT * 62

PK NAIL IN 1.2m ASPHALT SHOULDER SOUTH
WEST CORNER OF LAKE AVE AND RTE 83
ELEV. 241.089

PT * 63

"8" SPIKE ON EAST SIDE OF RTE 83 ± 2.7m
FROM EDGE OF PAVEMENT ACROSS FROM
VILLA AVE.
ELEV. 242.791

PT * 64

PK IN 1.2m ASPHALT SHOULDER ± 50m
NORTH OF RTE 132 EAST SIDE OF RTE 83
ELEV. 241.614

PT * 65

"X" CUT IN SOUTHWEST CORNER OF
RTE 83 AND RTE 132
ELEV. 241.816

PT * 66

"X" CUT IN SOUTHWEST CORNER NORTH
OF BURNETT AVE WEST SIDE OF RTE 83
ELEV. 242.446

PT * 67

"8" SPIKE ON GRASS BETWEEN EAST, SOUTHWEST
AND EAST EDGE OF PAVEMENT NORTH * 135 RTE 83
ELEV. 245.359

PT * 68

PK IN ASPAHLT SHOULDER SOUTH OF SOUTH DRIVEWAY
TO HONDA WEST SIDE RTE 83
ELEV. 245.466

PR * 71

PK AND CHOP "X" FRONT OF 219 GRAND AVE
(RTE 132) SOUTH SIDE OF ROAD.
ELEV. 243.552

PT * 72

PK AND CHOP "X" CUT IN SHOULDER AT
203 GRAND AVE SOUTH SIDE OF ROAD
ELEV. 243.866

"8" SPIKE IN GRAS FRONT OF HICK GAS
NORTH SIDE OF ROAD
ELEV. 244.089

PT * 74

PK NAIL IN 1.2m (4') ASPHALT SHOULDER EAST OF
DRIVEWAY TO FIRST AMERICAN BANK NORTH SIDE
OF GRAND AVE (RTE 132)
ELEV. 241.314

PT * 76

"8" SPIKE ± 15m EAST OF EAST DRIVEWAY TO FIRST
AMERICAN BANK NORTH SIDE OF GRAND AVE.
ELEV. 241.372

PT * 77

"8" SPIKE ± 1.8m (6') EDGE OF PAVEMENT ± 45.72m (150')
EAST OF DRIVEWAY TO CHURCH SOUTH SIDE OF GRAND AVE
ELEV. 241.806

PT * 78

"8" SPIKE GRASS ± 1.8m (6') SOUTH OF SOUTH EDGE
OF PAVEMENT ± 60.96m (200') EAST OF CULVERT PIPE
ELEV. 243.575

PT * 79

"8" SPIKE IN GRASS ± 1.8m (6') SOUTH OF SOUTH EDGE
OF PAVEMENT ± 99.06m (325') EAST OF CULVERT PIPE
ELEV. 246.126

PT * 82

PK AT EAST SIDE OF DRIVEWAY TO CHURCH
SOUTH SIDE OF GRAND AVE.
ELEV. 241.232

PT * 303

PK IN CENTERLINE OF RTE 83 NORTH
OF NIELSEN PLAZA
ELEV. 246.913

PT * 304

PK IN CENTERLINE OF RTE 83
FRONT OF * 204 RTE 83
ELEV. 242.837

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE 83 (MILWAUKEE AVE.) ℄ IL. RTE. 132 (GRAND AVE.) BENCHMARKS

SCALE: 1:500 DRAWN BY
DATE 01/05/2004 CHECKED BY

01/05/2004
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•REF-align3
•REF-align4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	14
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

IL. RTE. 83

IMPROVEMENT BEGINS
STA. 2+575

BURNETT AVE.

EXIST. R.O.W.

20.12 m (66')

EXIST. R.O.W.

+682 +690 +705 PROP. T.E. 15.24 m x 1.1 m

+782 T.E. 62.0 m x 1.2 m

T.E. 62.0 m x 1.2 m

+908 +920 T.E. 12.0 m x 5.7 m

EXIST. R.O.W.

PROP. R.O.W.

EXIST. R.O.W.

15.25 m

10.06 m

2+600 2+650 2+700 2+750 2+800 2+850 2+900 2+950

10.06 m

10.06 m

MATCHLINE STA. 2+950

EXIST. R.O.W.

+580 PROP. T.E. 21.946 m x 9.574 m +601.9

+702 +709 PROP. T.E. 7.010 m x 7.620 m

+797.5 +802.5 T.E. 5.0 m x 0.9 m

+814.5 T.E. 61.5 m x 1.3 m

+871 +876 T.E. 5.0 m x 2.4 m

T.E. 34.0 m x 1.3 m

+910 +923 T.E. 13.0 m x 2.2 m

EXIST. R.O.W.

T.E. 46.22 m

IL. RTE. 83

VILLA AVE.

+998.7 18.8 LT

+994.7 15.6 LT

+975.8 12.5 LT

+983.4 12.6 LT

T.E. 26.22 m R

2.5m

T.E. 115.41 m x 1.0 m

+044.7 12.6m LT

PROP. R.O.W. 2.5 m

EXIST. R.O.W.

T.E. 12.0 m x 5.0 m

+187.7 14.3m L

+190.2 12.1m L

+260.6 +270.0 +282.0

PROP. R.O.W.

EXIST. R.O.W.

MATCHLINE STA. 2+950

53.13°

3+000 3+050 3+100 3+150 3+200 3+250

MATCHLINE STA. 3+300

10.06 m

10.65 m

EXIST. R.O.W.

EXIST. R.O.W.

x 1.3 m

+032.8

+041.9

T.E. 13.92 m

+022 14.6 RT

+036.1 11.6 RT

T.E. 56.0 m x 1.0 m

+092 T.E. 16 m x 2.1 m

+108

T.E. 92.0 m x 1.0 m

+187.2 +200.2

T.E. 102.8 m x 5.0 m

ST/
19.71

IMPROVEMENT ENDS
STA. 3+338

LAKE AVE.

20.14 m (66')

IL. RTE. 83

POT Sta. 3+412.623

MATCHLINE STA. 3+300

3+300 3+350 3+400

13.72 m (45')

EXIST. R.O.W.

E

T.E.

STA. 3+366.50
19.716 m RT

3+311

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE 83 (MILWAUKEE AVE.) @ IL. RTE. 132 (GRAND AVE.) ALIGNMENT AND TIES PLAN

SCALE: 1:500
DATE 01/02/2004

DRAWN BY
CHECKED BY

01/02/2004
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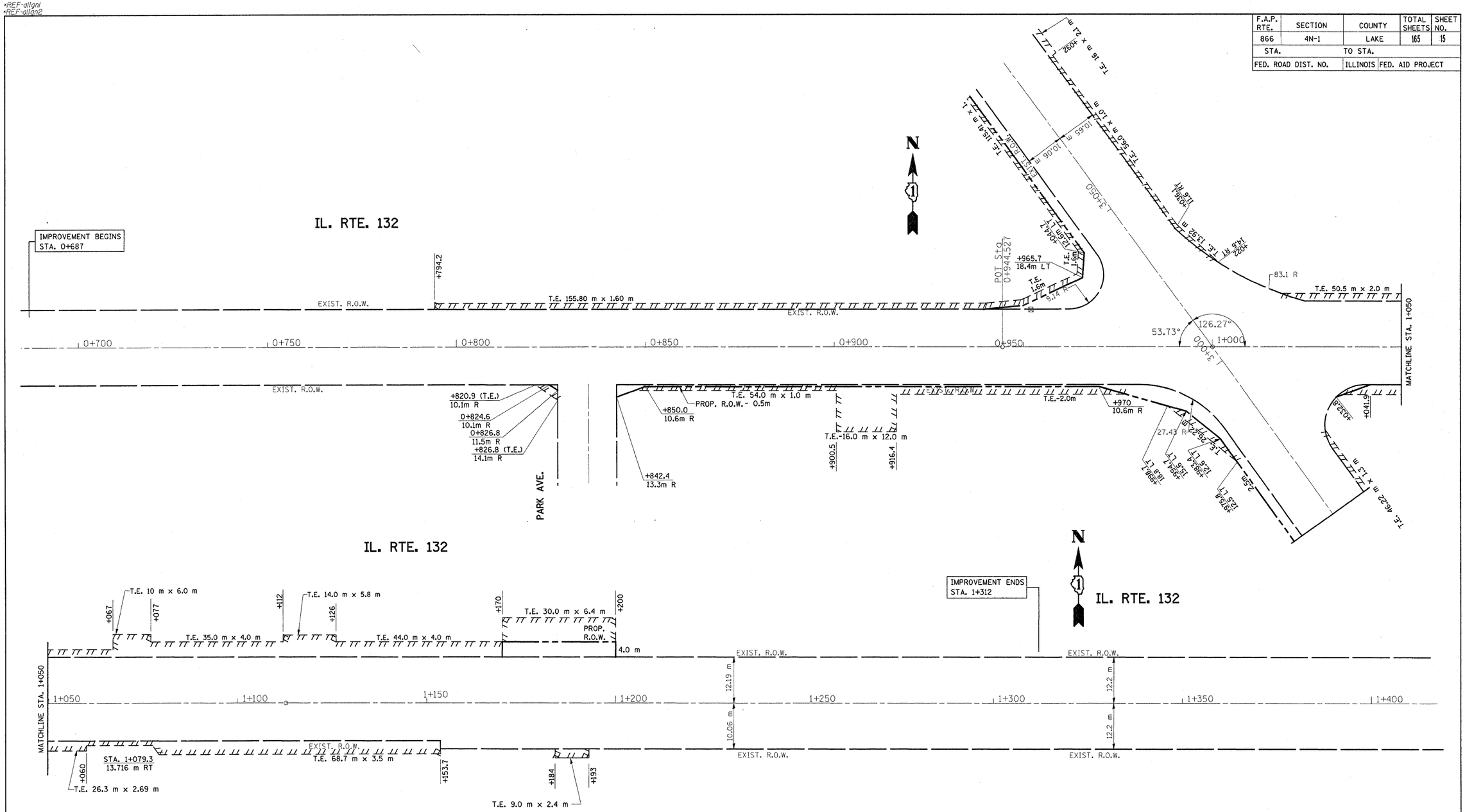
*REF-alignl
*REF-align2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE 83 (MILWAUKEE AVE.) @ IL. RTE. 132 (GRAND AVE.) ALIGNMENT AND TIES PLAN

SCALE: 1:500
DATE 01/02/2004

DRAWN BY
CHECKED BY

01/02/2004
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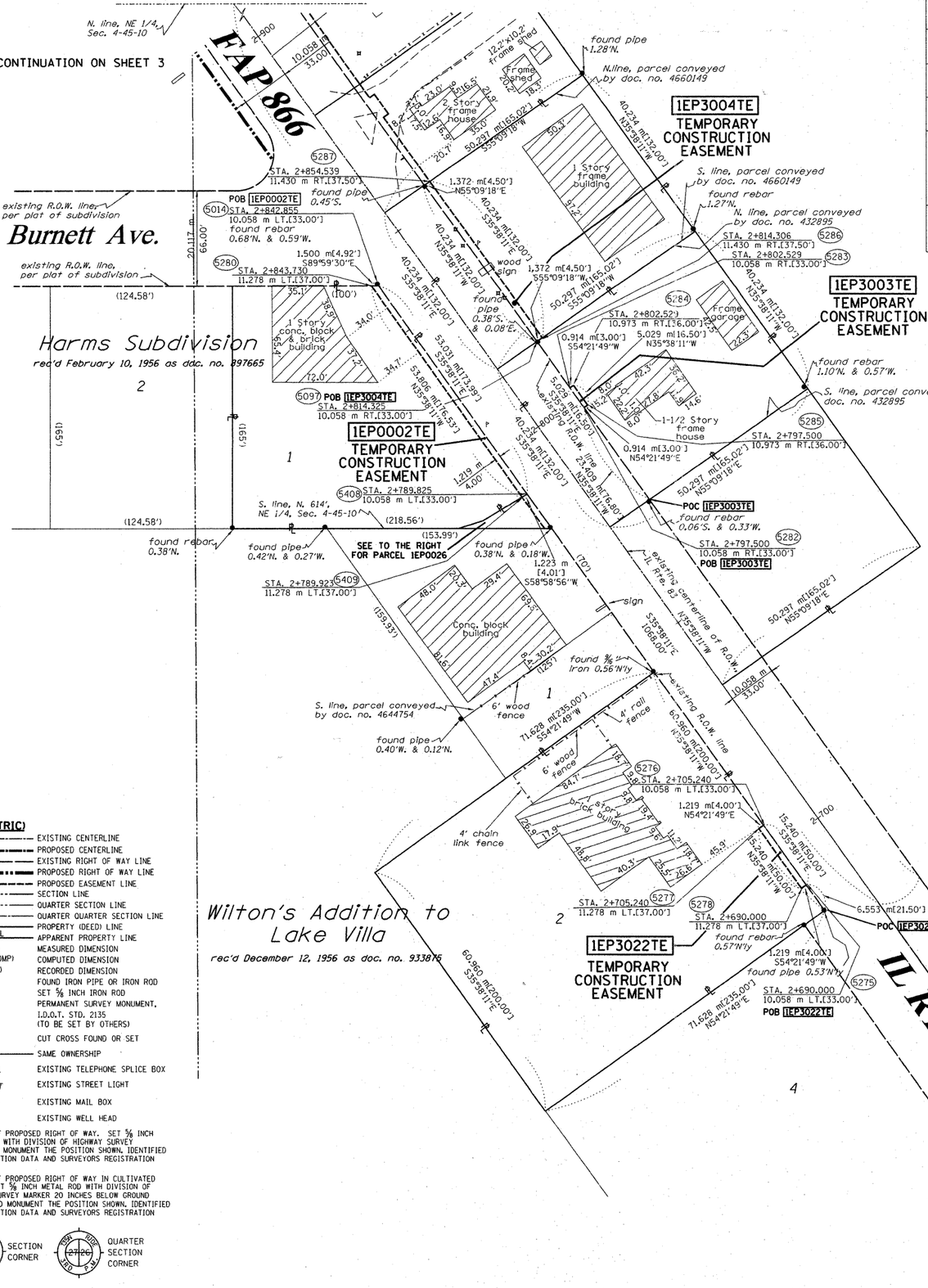
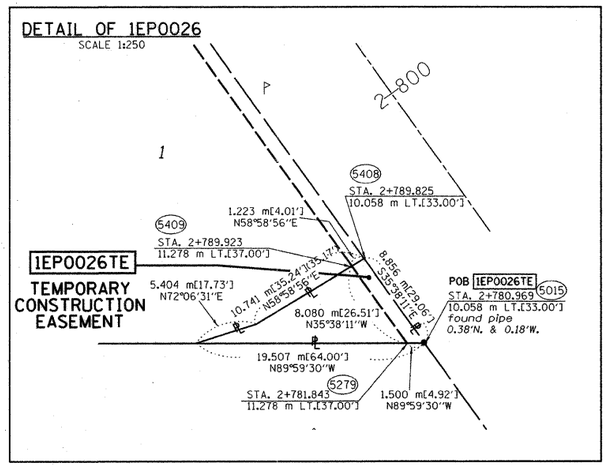
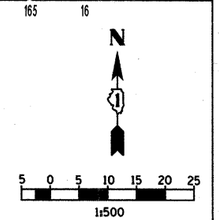
PART OF THE NE 1/4 OF SECTION 4, T45N, R10 EAST OF THE 3rd PM, LAKE COUNTY, ILLINOIS





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
1EP0002	LASALLE BANK NATIONAL ASSOCIATION AS TRUSTEE, TR. NO. 6012080-5	0.588 2378	N/A	N/A	0.588 2378	0.016 65	N/A	GRADING	06-04-201-009	
1EP3003	JAMES EVANS	0.500 2023	N/A	N/A	0.500 2023	0.001 5 50 s.f.	N/A	GRADING	06-04-200-029	
1EP3004	PREMIER SHOPPING CENTER	0.500 2023	N/A	N/A	0.500 2023	0.014 55	N/A	GRADING	06-04-200-014	
1EP3022	CHICAGO TITLE AND TRUST COMPANY AS TRUSTEE, TR NO. 1084668	1.079 4366	N/A	N/A	1.079 4366	0.005 19 200 s.f.	N/A	GRADING	06-04-201-004	
1EP0026	JOSEPH ZALE	0.016 64	N/A	N/A	0.016 64	0.002 10 111 s.f.	N/A	GRADING	06-04-201-010	

BASIS OF BEARING IS THE ILLINOIS STATE PLANE COORDINATE SYSTEM (EAST ZONE NAD83)



LEGEND (METRIC)

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED 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.

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 4, TOWNSHIP 45 NORTH, RANGE 10 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 21st DAY OF April 2008 A.D.

RONALD F. HODGEN 2830 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS JOLIET, ILLINOIS

RONALD F. HODGEN P.L.S. NO. 2630

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

RECEIVED JUN - 2 2008 PLATS & LEGALS

REVISIONS
3-28-2008 / CHANGED TE'S TO 3000 SERIES
4-21-2008 / ADDED RECORD DIMENSION

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP 866 IL RTE. 83

LAKE COUNTY
JOB NO. R-91-058-01
STATION 2+700 TO STATION 2+900

SCALE 1:500 SHEET 2 OF 9

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

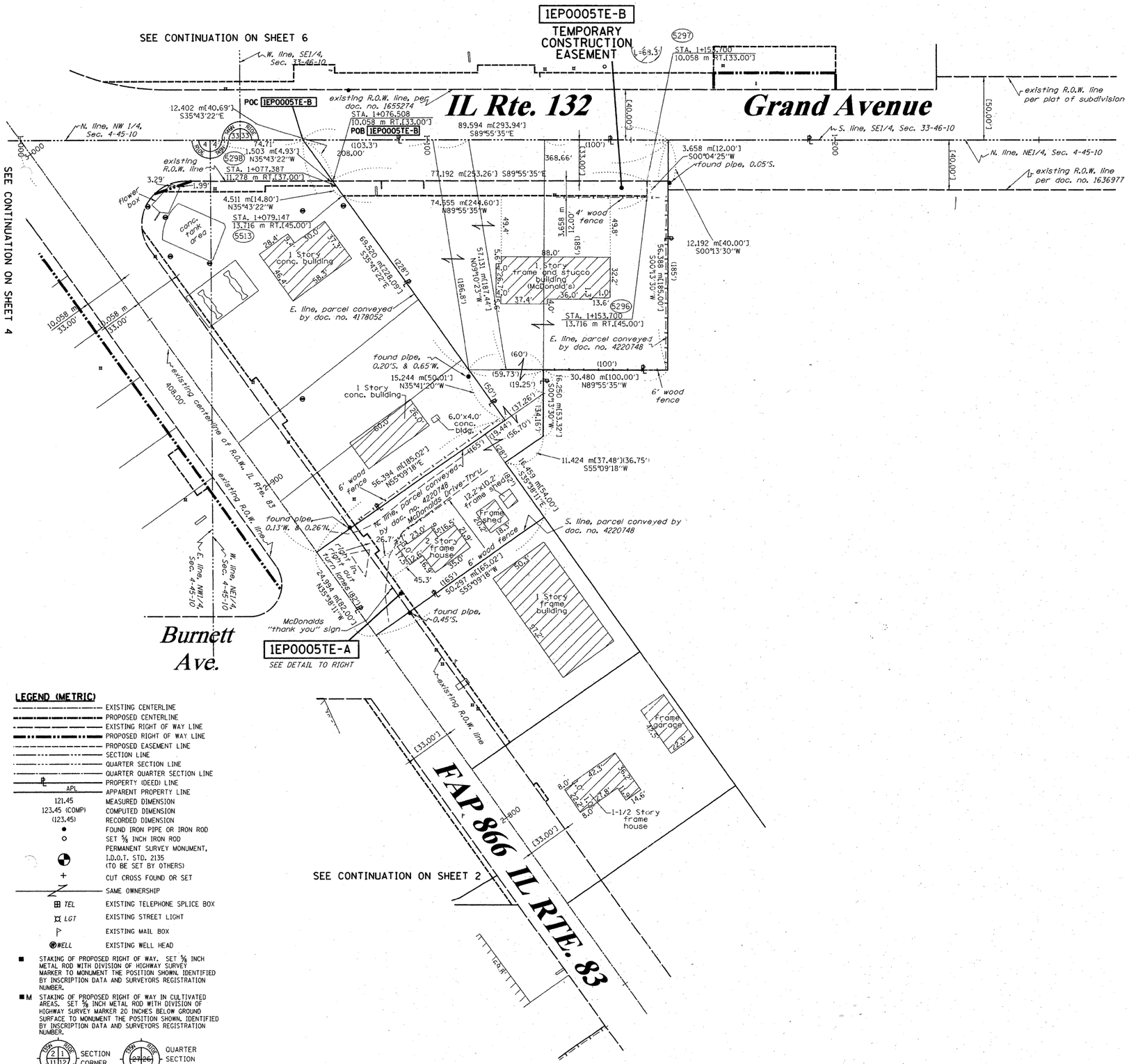
ROUTE: FAP 866 IL RTE. 83 SECTION: COUNTY: LAKE JOB NO. R-91-058-01 PT&A 20021360.00 IL RTE. 83

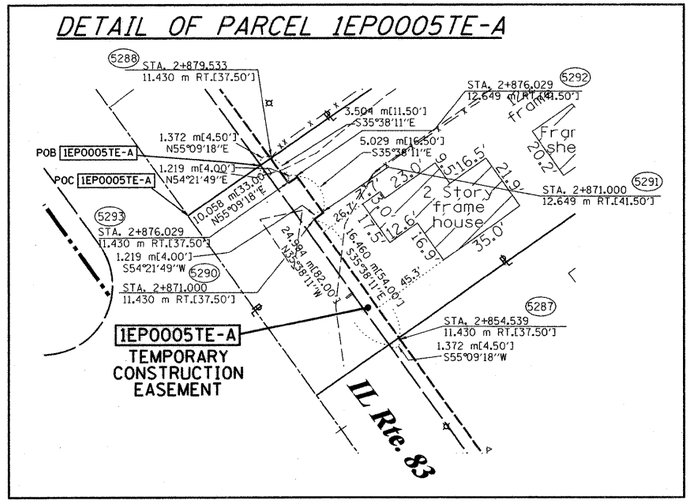
PART OF THE NE 1/4 OF SECTION 4, T45N, R10 EAST OF THE 3rd PM, LAKE COUNTY, ILLINOIS

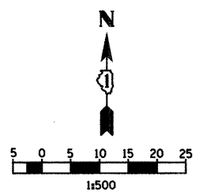
BASIS OF BEARING IS THE ILLINOIS STATE PLANE COORDINATE SYSTEM (EAST ZONE NAD83)

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
1EP0005	ARCHLAND PROPERTY II, L.P.	1.340 5422	N/A	N/A	1.340 5422	A-0.010 40 B-0.069 278	N/A	GRADING	06-04-200-062 06-04-200-036 06-04-200-035	

165 17







LEGEND (METRIC)

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED 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

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 4, TOWNSHIP 45 NORTH, RANGE 10 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 May, 2008 A.D.

RONALD F. HODGEN P.L.S. NO. 2630

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

RECEIVED
JUN 17 2008
PLATS & LEGALS
RECEIVED

REVISED: 5/20/08 - ADDED DRIVE-THRU/FLOWER BOX

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 866 IL RTE. 83

LAKE COUNTY
JOB NO. R-91-058-01
STATION 2+750 TO STATION 2+950

SCALE 1:500 SHEET 3 OF 9

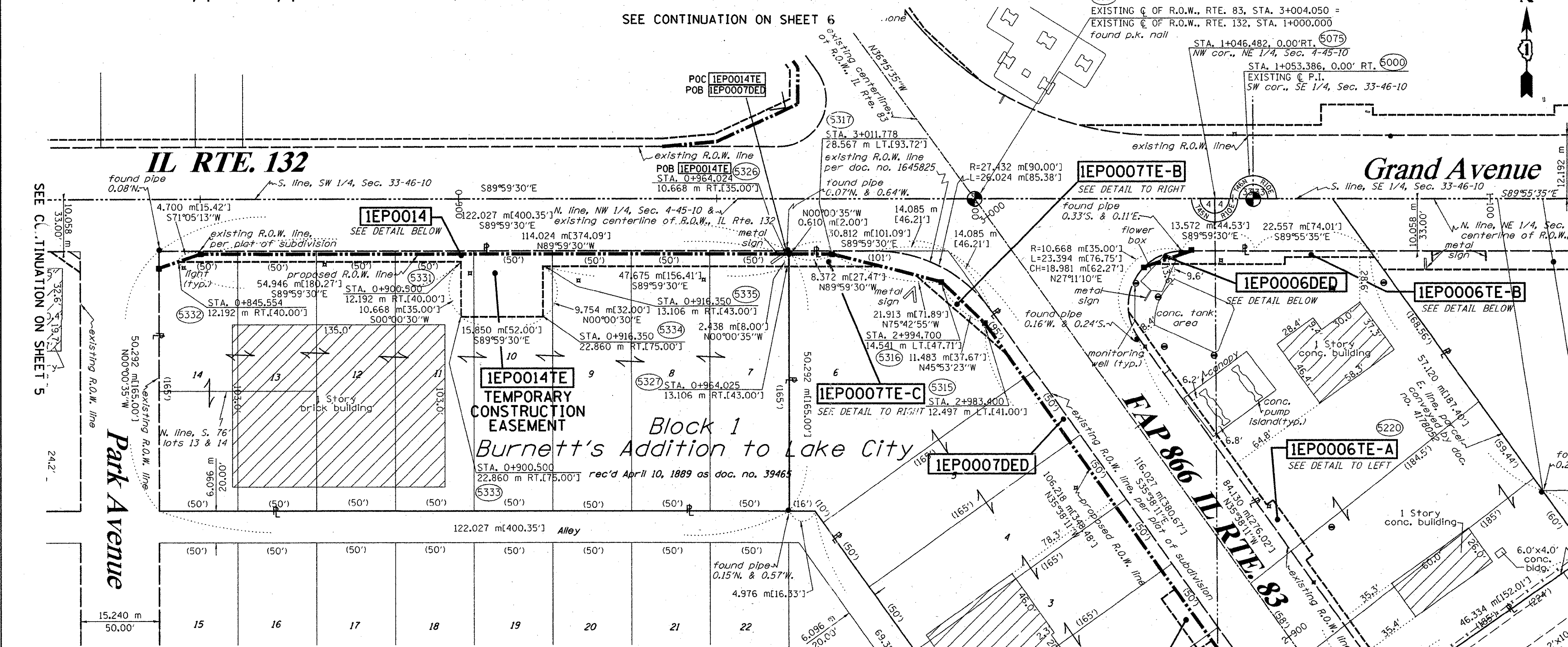
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

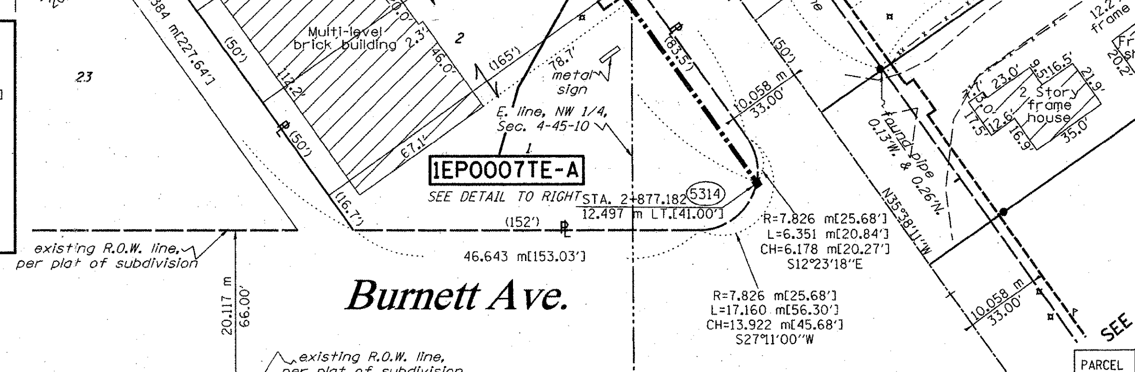
ROUTE: FAP 866 IL RTE. 83 SECTION: COUNTY: LAKE PLATS & LEGALS JOB NO. R-91-058-01 PT&A 20021360.00 IL RTE. 83

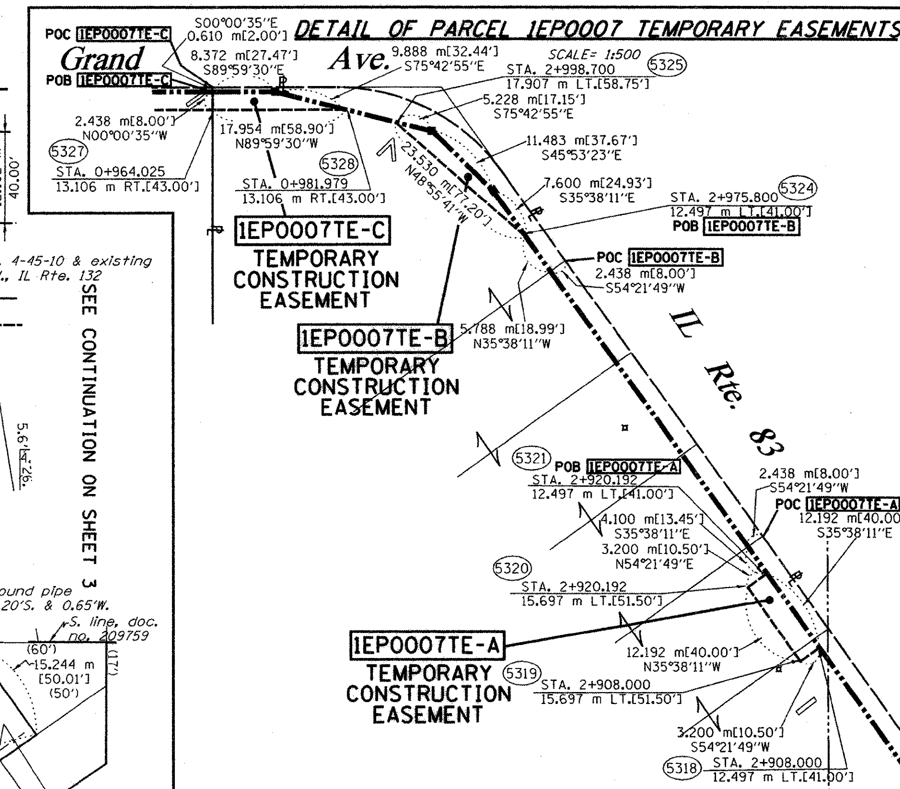
PART OF THE NW1/4 & NE1/4 OF SECTION 4, T45N, R10 EAST OF THE 3rd PM, LAKE COUNTY, ILLINOIS

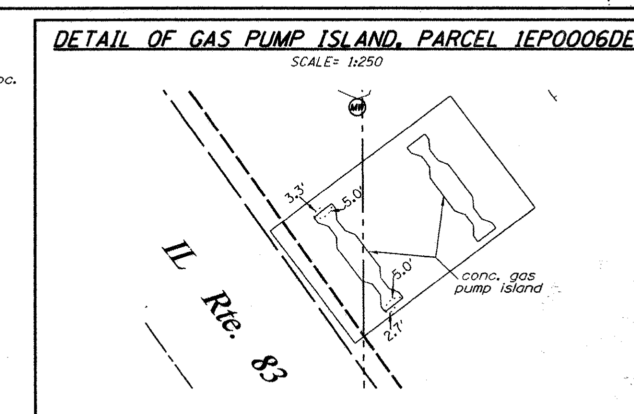
SEE CONTINUATION ON SHEET 6

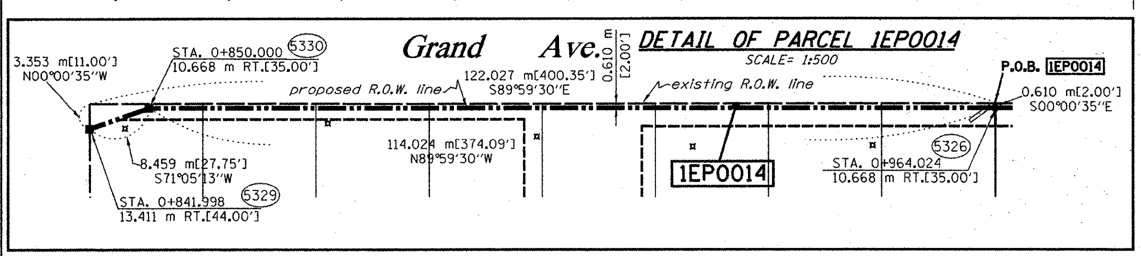
BASIS OF BEARING IS THE ILLINOIS STATE PLANE COORDINATE SYSTEM (EAST ZONE NAD83)

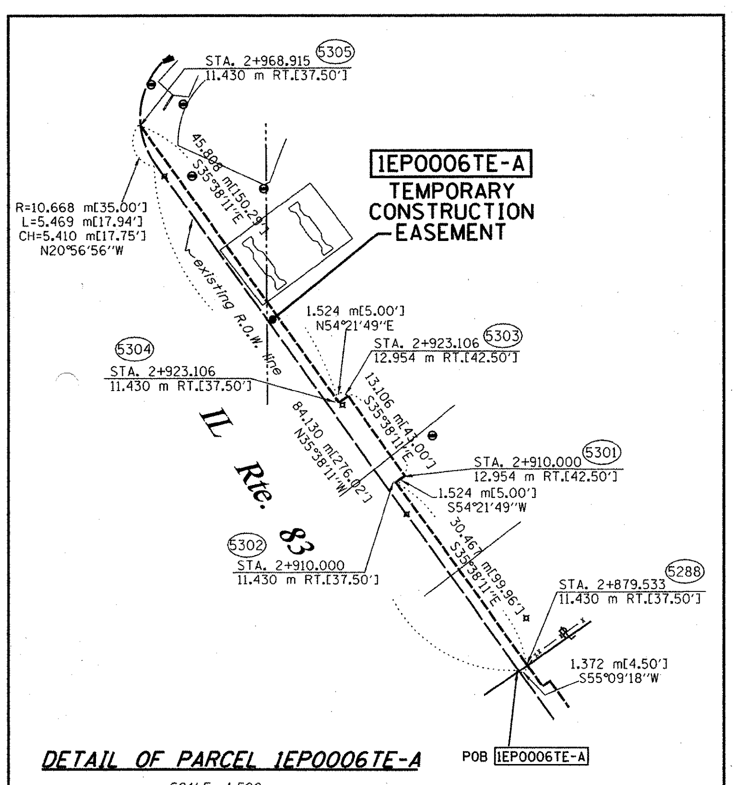


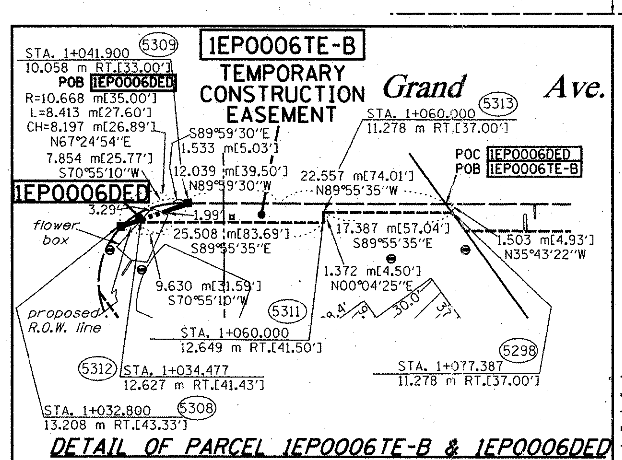












PARCEL NO.	OWNER	TOTAL HOLDING ACRES m²	R.O.W. REQUIRED ACRES m²	PREVIOUSLY DEDICATED ACRES m²	REMAINDER ACRES m²	EASEMENTS TEMP ACRES m²	EASEMENTS PERM ACRES m²	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
1EP0006	EQUILON ENTERPRISES, L.L.C.	0.990 4005	DED-0.002 7 75 s.f.	N/A	0.990 4005	A-0.035 140 B-0.019 77	N/A	GRADING	06-04-200-001 06-04-200-045 06-04-200-049 06-04-200-048 06-04-200-061	
1EP0007	CONDELL MEDICAL CENTER	1.456 5893	DED-0.095 382	0.007 29 317 s.f.	1.456 5893	A-0.010 39 B-0.009 35 382 s.f. C-0.008 32 345 s.f.	N/A	GRADING	06-04-104-029	
1EP0014	VERNON HILLS ASSOCIATES, III	1.517 6137	0.021 85	N/A	1.496 6052	0.096 390	N/A	GRADING	06-04-104-001 06-04-104-002 06-04-104-003 06-04-104-004 06-04-104-005 06-04-104-006 06-04-104-007 06-04-104-008	

REVISED: 5/20/08 - ADDED FLOWER BOX

LEGEND (METRIC)

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED 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 (T35N R10E 2 1 11 12 3RD P.M.)
- QUARTER SECTION CORNER (T35N R10E 27 26 3RD P.M.)

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 4, TOWNSHIP 45 NORTH, RANGE 10 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 20th DAY OF May, 2008 A.D.

[illegible]

RONALD F. HODGEN P.L.S. NO. 2630

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

RECEIVED JUN 17 2008 PLATS & LEGALS

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 866 IL RTE. 83

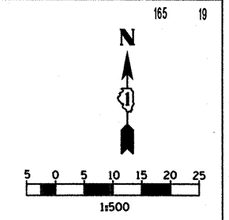
LAKE COUNTY
JOB NO. R-91-058-01
STATION 2+850 TO STATION 3+000

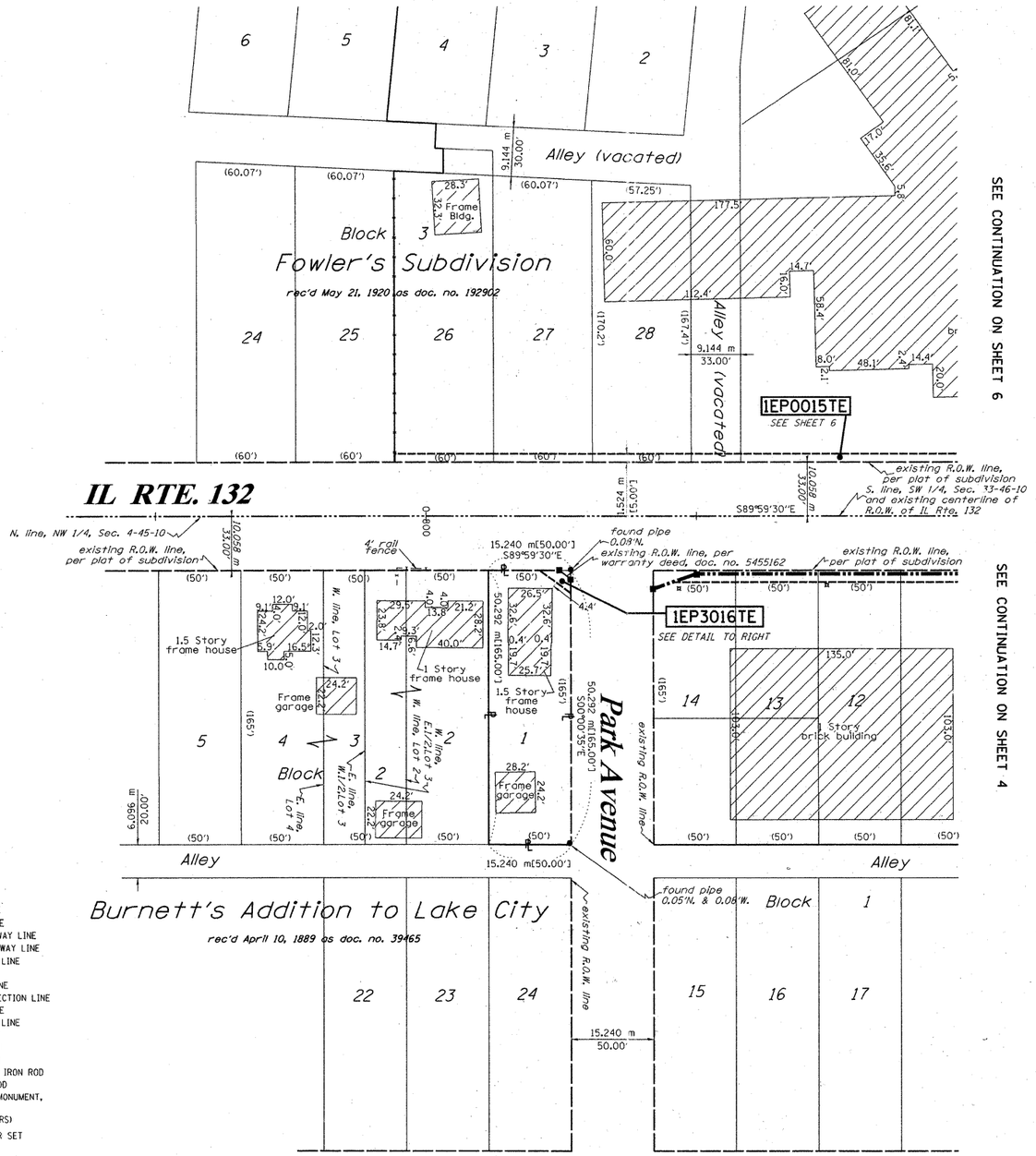
SCALE 1:500 SHEET 4 OF 9

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

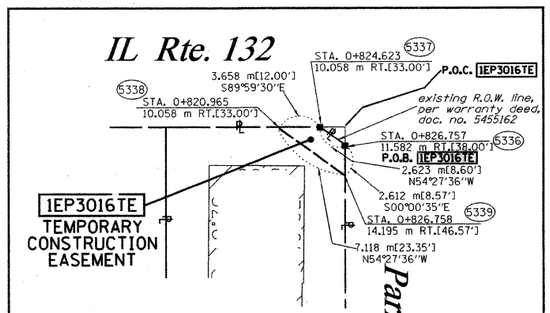
PART OF THE NW 1/4 OF SECTION 4, T45N, R10 EAST & PART OF THE SW1/4OF SEC. 33, T46N, R10E OF THE 3rd PM, LAKE COUNTY, ILLINOIS

BASIS OF BEARING IS THE ILLINOIS STATE PLANE COORDINATE SYSTEM (EAST ZONE NAD83)





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
1EP3016	DAVID P. SKINNER & SHARON E. SKINNER	0.189 764	N/A	N/A	0.189 764	0.003 10 111 s.f.	N/A	GRADING	06-04-103-025	



DETAIL OF PARCEL 1EP3016TE

SCALE= 1:250

LEGEND (METRIC)

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APL — APPARENT PROPERTY LINE
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- 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

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 BETWEEN SECTION 33, TOWNSHIP 46 NORTH, RANGE 10 EAST AND SECTION 4, TOWNSHIP 45 NORTH, RANGE 10 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 March, 2008 A.D.

RONALD F. HODGEN P.L.S. NO. 2630

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 866 IL RTE. 83

LAKE COUNTY

JOB NO. R-91-058-01

STATION 0+750 TO STATION 0+850

SCALE 1:500 SHEET 5 OF 9

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

19

RECEIVED JUN 2 2008 PLATS & LEGALS

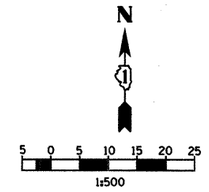
REVISION
4-22-2008 / REMOVED 0016

ROUTE: FAP 866 IL RTE. 83 SECTION: COUNTY: LAKE JOB NO. R-91-058-01 RT&A 20021360.00 IL RTE. 83

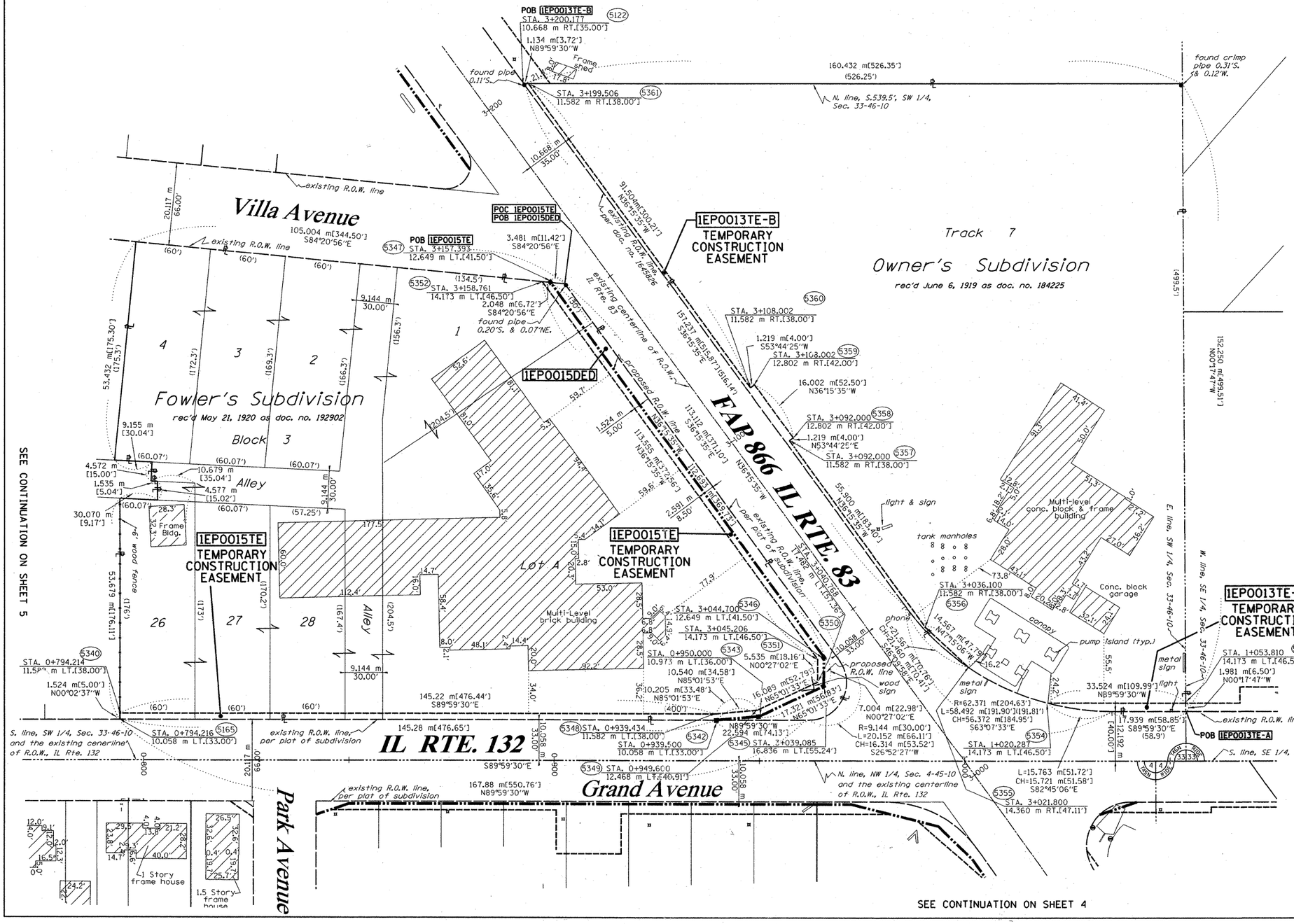
PART OF THE SW 1/4 OF SECTION 33 T46N, R10 EAST OF THE 3rd PM, LAKE COUNTY, ILLINOIS

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
1EP0013	CHICAGO TITLE LAND TRUST CO., AS TRUSTEE TRUST NO. 1102115	3.913 15837	N/A	N/A	3.913 15837	A-0.014 56 B-0.044 176	N/A	GRADING	02-33-303-007	
1EP0015	THE TRUSTEES OF SCHOOL DISTRICT NO. 41	3.935 15923	DED-0.106 429	N/A	3.935 15923	0.110 445	N/A	GRADING	02-33-308-023 02-33-308-027 02-33-308-026	

BASIS OF BEARING IS THE ILLINOIS STATE PLANE COORDINATE SYSTEM (EAST ZONE NAD 83)



SEE CONTINUATION ON SHEET 7



LEGEND (METRIC)

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
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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 33, TOWNSHIP 46 NORTH, RANGE 10 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 April, 2008 A.D.

RONALD F. HODGEN P.L.S. NO. 2630

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

RECEIVED JUN 17 2008 PLATS & LEGALS

RECEIVED JUN 17 2008 PLATS & LEGALS

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP 866 IL RTE. 83

LAKE COUNTY
JOB NO. R-91-058-01
STATION 3+100 TO STATION 3+225

SCALE 1:500 — SHEET 6 OF 9

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

ROUTE: FAP 866 IL RTE. 83 — SECTION: — COUNTY: LAKE — JOB NO. R-91-058-01 — RT&A 20021360.00 IL RTE. 83

PART OF THE SW 1/4 OF SECTION 33, T46N, R10 EAST OF THE 3rd PM, LAKE COUNTY, ILLINOIS

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
1EP0020	WARREN REGNIER, JR., KATHLEEN J. REGNIER, W.J. SULLIVAN, JR. & SHERRILL L. SULLIVAN	0.265 1073	DED-0.010 40	N/A	0.265 1073	N/A	N/A	N/A	02-33-306-034 02-33-306-018	
1EP0021	COLE TAYLOR BANK, AS TRUSTEE TRUST NO. 80-250	5.427 21964	N/A	N/A	5.427 21964	0.184 744	N/A	GRADING	02-33-303-006 02-33-303-005	
1EP0027	LAKE VILLA COMMUNITY CONSOLIDATED SCHOOL DISTRICT NO. 41	0.342 1385	DED-0.025 101	N/A	0.342 1385	N/A	N/A	N/A	02-33-306-035	
1EP3024	REGIONAL BOARD OF SCHOOL TRUSTEES OF LAKE COUNTY, ILLINOIS SCHOOL DIST.#41	0.337 1362	N/A	N/A	0.337 1362	0.015 61 660 s.f.	N/A	GRADING	02-33-306-017 02-33-306-016	

BASIS OF BEARING IS THE ILLINOIS STATE PLANE COORDINATE SYSTEM (EAST ZONE NAD 83)

N

5 0 5 10 15 20 25
1:500

DETAIL OF PARCEL 1EP3024TE
SCALE: 1:250

5383 STA. 3+282.192 10.058 m LT.[33.00']
POB 1EP3024TE
5.029 m[16.50'] N53°44'25"E
5382 STA. 3+282.192 15.088 m LT.[49.50']
7.441 m[40.00'] S36°15'35"E
1EP3024TE TEMPORARY CONSTRUCTION EASEMENT
7.441 m[40.00'] N36°15'35"W
STA. 3+270.000 5380 10.058 m LT.[33.00']
5381 STA. 3+270.000 15.088 m LT.[49.50']
5.029 m[16.50'] S53°44'25"W

5144 STA. 3+334.226 13.716 m RT.[45.00']
7.443 m[24.42'] S89°59'30"E
STA. 3+329.825 5515 19.715 m RT.[64.68']
236.688 m[776.54']
(55.83')
13.716 m 45.00
STA. 3+315.112 5143 13.716 m RT.[45.00']
19.114 m[62.71'] N36°15'35"W
18.824 m[61.76'] S36°15'35"E
STA. 3+311.000 5514 19.715 m RT.[64.68']
(10.00') 3.048 m[10.00'] N53°44'25"E
11.659 m[38.25'] S16°53'40"E
STA. 3+315.112 10.668 m RT.[35.00'] 5142
STA. 3+300.000 5504 15.850 m RT.[52.00']
(651.98')
N. line, S. 900', SW 1/4, Sec. 33-46-10
(180')
W. line, SW 1/4, Sec. 33-46-10
(173.66')
1477.28'
existing R.O.W. line per plat of subdivision
existing R.O.W. line per doc. no. 1635880
1EP0021TE TEMPORARY CONSTRUCTION EASEMENT
1EP0020DED
(550.10')
N. line, S.760', SW 1/4, Sec. 33-46-10
(140')
W. line, SW 1/4, Sec. 33-46-10
E. line, SW 1/4, Sec. 33-46-10
109.882 m[360.51'] N00°17'47"W
(360.5')
1 POC 1EP3024TE
8' chain link fence
ALLEY
45.354 m[148.80'] (148.8')
13.527 m[44.41'] S36°15'35"E
34 No buildings
(122')
Fowler's Subdivision
rec'd May 21, 1920 as doc. no. 192902
(65.65')
1EP3024TE SEE DETAIL ABOVE
Block 2
33
2.134 m[7.00'] N53°18'12"E
8' chain link fence
(65.65')
STA. 3+259.137 12.192 m LT.[40.00'] 5502
20.825 m [68.33']
28
29
30
31
32
found rebar 0.40'E.
existing R.O.W. line
(60')
18.288 m[60.00'] S84°20'56"E
41.048 m[134.67'] S84°20'56"E
5501 STA. 3+191.130 12.192 m LT.[40.00']
R=6.096 m[20.00'] L=14.035 m[46.05'] CH=11.134 m[36.53'] N29°41'44"E
found P.K. nail 0.38'NE.
Villa Avenue
existing R.O.W. line
Block 3
6 5 4 3 2 1
FAP 866
IL RTE. 83
Found pipe 1.1'S & 1.05'E.
114.334 m[375.08'] N36°15'35"W
(273.51')
18.288 m[60.00'] N36°15'35"W
103.625 m[339.98'] S36°15'35"E
41.5'
18.288 m[60.00'] S36°15'35"E
5154 STA. 3+259.15 10.058 m LT.[33.00']
POB 1EP0027DED
STA. 3+240.849 5415 12.192 m LT.[40.00']
1EP0027DED
2.134 m[7.00'] N53°18'12"E
45.102 m[147.97'] S36°15'35"E
49.718 m[163.12'] N36°15'35"W
existing R.O.W. line
Frame shed
7.1'
11.8'
STA. 3+196.375 5505 15.850 m RT.[52.00']
6.427 m[21.09'] N89°59'30"W
STA. 3+200.177 5122 10.668 m RT.[35.00']
POB 1EP0021TE
10.056 m 33.00'
existing centerline of R.O.W. IL Rte. 83
L=5.262 m[17.26'] CH=5.100 m[16.73'] S11°31'50"E
10.668 m 35.00'
10.058 m 33.00'
N36°15'35"W
existing R.O.W. line per doc no. 1645826
existing R.O.W. line
Tract 7
(569.4')
160.432 m[526.35']
N. line, S.539.5', SW 1/4, Sec. 33-46-10
Owner's Subdivision
rec'd June 6, 1919 as doc. no. 184225
2 story brick apartment building
conc. block building
conc. pump island
SEE CONTINUATION ON SHEET 6

LEGEND (METRIC)

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED 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
- 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

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 33, TOWNSHIP 46 NORTH, RANGE 10 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 April 2008 A.D.

RONALD F. HODGEN P.L.S. NO. 2630

RUETTIGER, TONELLI & ASSOCIATES, INC.
Land Surveyors/Engineers/Planners/Landscape Architects/G.I.S. Consultants
2174 OMEIDA 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 866 IL RTE. 83

LAKE COUNTY
JOB NO. R-91-058-01
STATION 3+150 TO STATION 3+350

SCALE 1:500 SHEET 7 OF 9

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

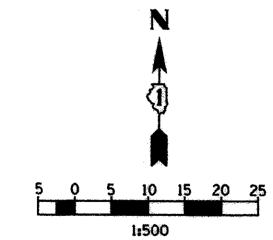
RECEIVED
JUN 17 2008
PLATS & LEGALS

REVISIONS
3-28-2008 / REVISED 0024TE TO 3024TE
4-21-2008 / SPLIT OFF PARCEL 0027 FROM 0020
4-22-2008 / ADDED OWNER TO 0027

ROUTE: FAP 866 IL RTE. 83 SECTION: COUNTY: LAKE JOB NO. R-91-058-01 RT&A 20021360.00 IL RTE. 83

PART OF THE SE 1/4 OF SECTION 33, T46N, R10 EAST OF THE 3rd PM, LAKE COUNTY, ILLINOIS

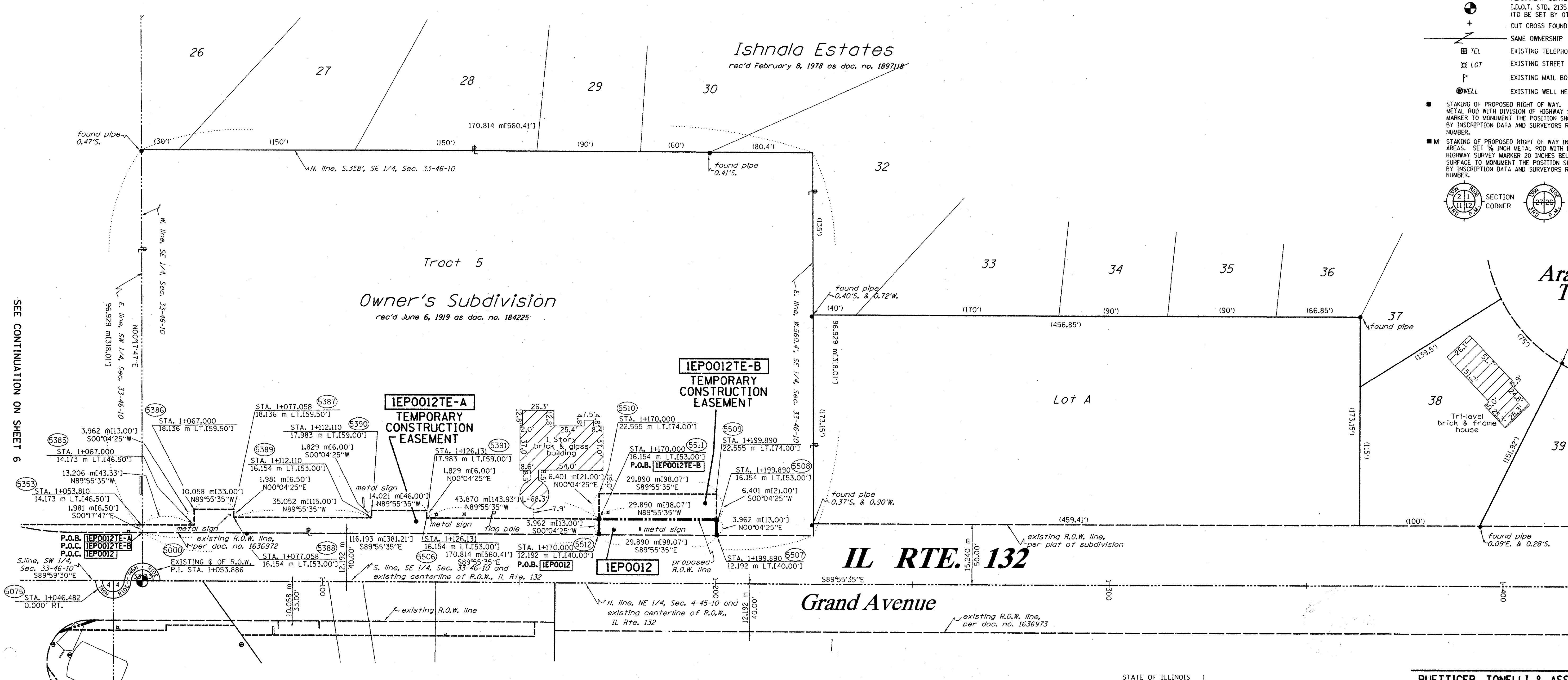
PARCEL NO.	OWNER	TOTAL HOLDING ACRES m²	R.O.W. REQUIRED ACRES m²	PREVIOUSLY DEDICATED ACRES m²	REMAINDER ACRES m²	EASEMENTS TEMP ACRES m²	EASEMENTS PERM ACRES m²	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
1EP0012	FIRST AMERICAN BANK, FKA, LAKE VILLA TRUST & SAVINGS BANK	4.091 16556	0.029 118	N/A	4.062 16438	A-0.119 480 B-0.047 191	N/A	GRADING	02-33-401-005	



BASIS OF BEARING IS THE ILLINOIS STATE PLANE COORDINATE SYSTEM (EAST ZONE NAD83)

LEGEND (METRIC)

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED 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



SEE CONTINUATION ON SHEET 6

SEE CONTINUATION ON SHEETS 3 & 4

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 33, TOWNSHIP 46 NORTH, RANGE 10 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 April 2008 A.D.

RONALD F. HODGEN P.L.S. NO. 2630

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

RECEIVED JUN 17 2008 PLATS & LEGALS

RECEIVED JUN 1 2008 PLATS & LEGALS

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

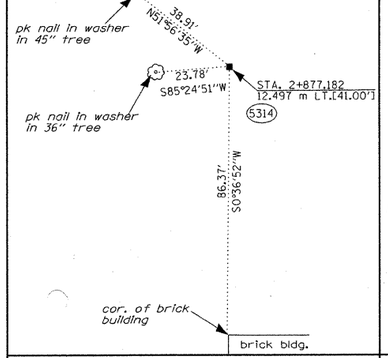
PLAT OF HIGHWAYS

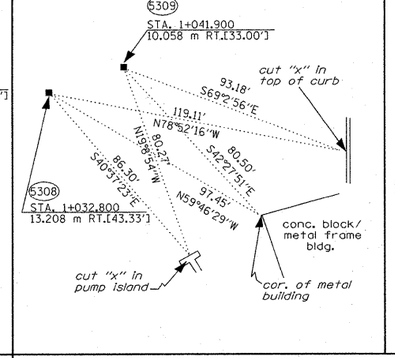
FAP 866 IL RTE. 83

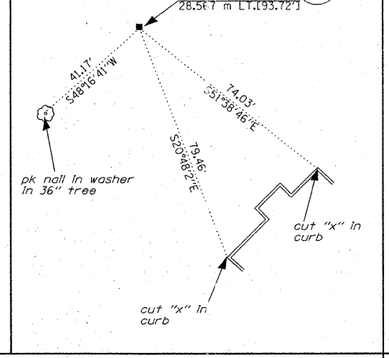
LAKE COUNTY
JOB NO. R-91-058-01
STATION 1+050 TO STATION 1+400

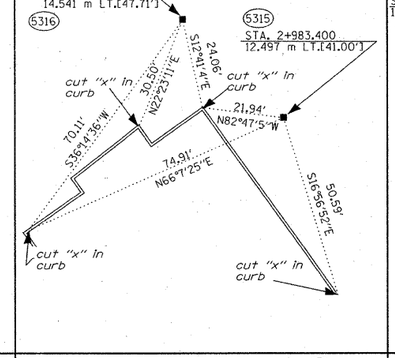
SCALE 1:500 SHEET 8 OF 9

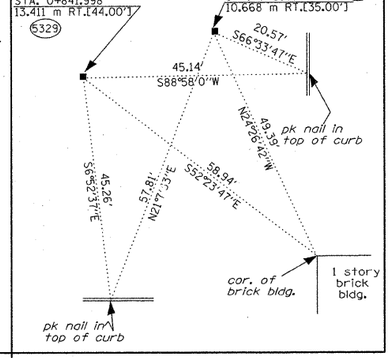
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

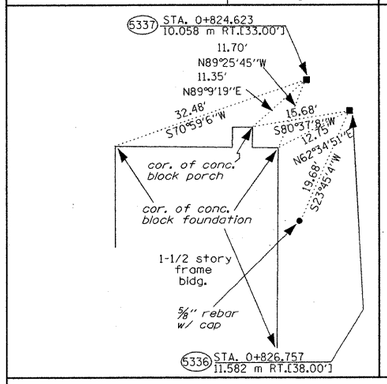


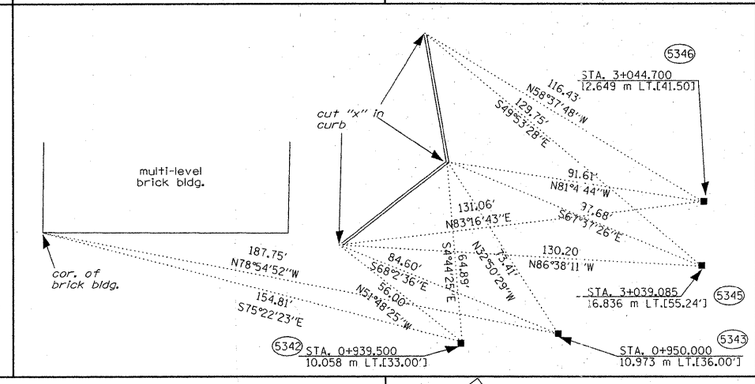


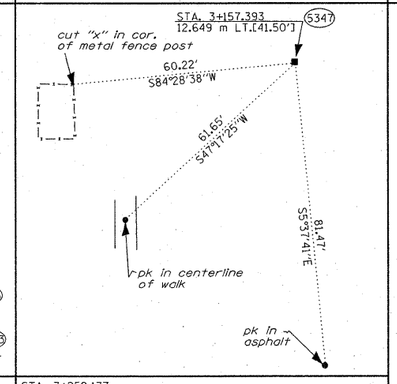


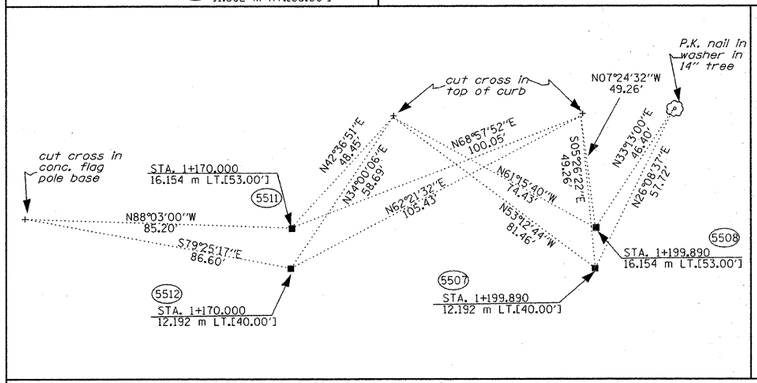


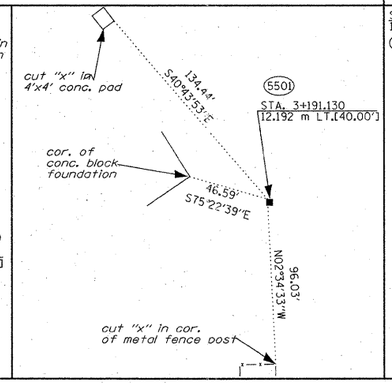


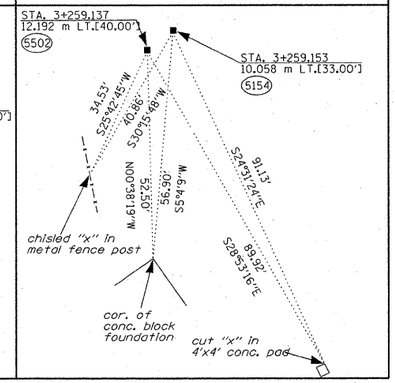












COORDINATE TABLE

POINT #	NORTHING	EASTING
151	2094100.5444	1054524.7564
5000	2094100.5186	1054701.5469
5001	2094097.1952	1057285.5941
5002	2086090.4304	1060267.1071
5018	2095148.7902	1053755.8736
5154	2094755.8971	1054003.1331
5246	2094101.0235	1051243.9232
5308	2094057.1968	1054632.3615
5309	2094067.5243	1054662.2186
5314	2093738.3722	1054733.9459
5315	2094021.5954	1054530.9067
5316	2094047.8188	1054503.8560
5317	2094065.5576	1054434.1862
5326	2094065.5616	1054406.7202
5329	2094056.6201	1054006.3703
5330	2094065.6163	1054032.6264
5336	2094062.8274	1053956.3693
5337	2094067.6284	1053949.3685
5342	2094133.5734	1054326.2709
5343	2094136.5684	1054360.7201
5345	2094160.5608	1054412.2326
5346	2094183.5390	1054412.4134
5347	2094481.6655	1054193.7391
5501	2094571.8042	1054129.4831
5502	2094751.7140	1053997.5202
5507	2094139.9025	1055180.6142
5508	2094152.9025	1055180.6309
5511	2094153.0286	1055082.5660
5512	2094140.0286	1055082.5493

151	638283.1225	321419.7886
5000	638283.1146	321473.6744
5001	638282.1017	322261.2936
5002	635841.6349	323170.0606
5018	638602.6284	321185.4326
5154	638482.8744	321260.7975
5246	638283.2685	320419.7886
5308	638269.9101	321452.5867
5309	638273.0580	321461.6871
5314	638172.7322	321483.5497
5315	638259.0588	321421.6632
5316	638267.0517	321413.4181
5317	638272.4585	321392.1827
5326	638272.4597	321383.8111
5329	638269.7343	321261.7842
5330	638272.4764	321269.7871
5336	638271.5654	321246.5439
5337	638273.0897	321244.4100
5342	638293.1898	321359.2901
5343	638294.1026	321369.7902
5345	638301.4155	321385.4913
5346	638308.4193	321385.5464
5347	638399.2884	321318.8943
5501	638426.7628	321299.3091
5502	638481.5994	321259.0867
5507	638295.1189	321619.6944
5508	638299.0813	321619.6995
5511	638299.1197	321589.8093
5512	638295.1573	321589.8042

BASIS OF BEARING IS THE ILLINOIS STATE PLANE COORDINATE SYSTEM (EAST ZONE NAD 83)

N

1

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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- CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- TEL EXISTING TELEPHONE SPLICE BOX
- LGT EXISTING STREET LIGHT
- MAIL BOX EXISTING MAIL BOX
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■ 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.

T.40N R.9E 2 1 11 12 T.39N R.9E — SECTION CORNER

T.40N R.9E 27 26 T.39N R.9E — 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 4, TOWNSHIP 45 NORTH,RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, AND IN SECTION 33, TOWNSHIP 46 NORTH, RANGE 10 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 17th DAY OF April, 2008 A.D.

RONALD F. HODGEN P.L.S. NO. 2630
(My license expires 11-30-08)

RECEIVED
JUN 17 2008
PLATS & LEGALS

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) 420-1740 FAX (630) 420-1741

ILLINOIS DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS

FAP 866 IL RTE. 83

LAKE COUNTY
JOB NO. R-91-058-01

SCALE: NONE SHEET 9 OF 9

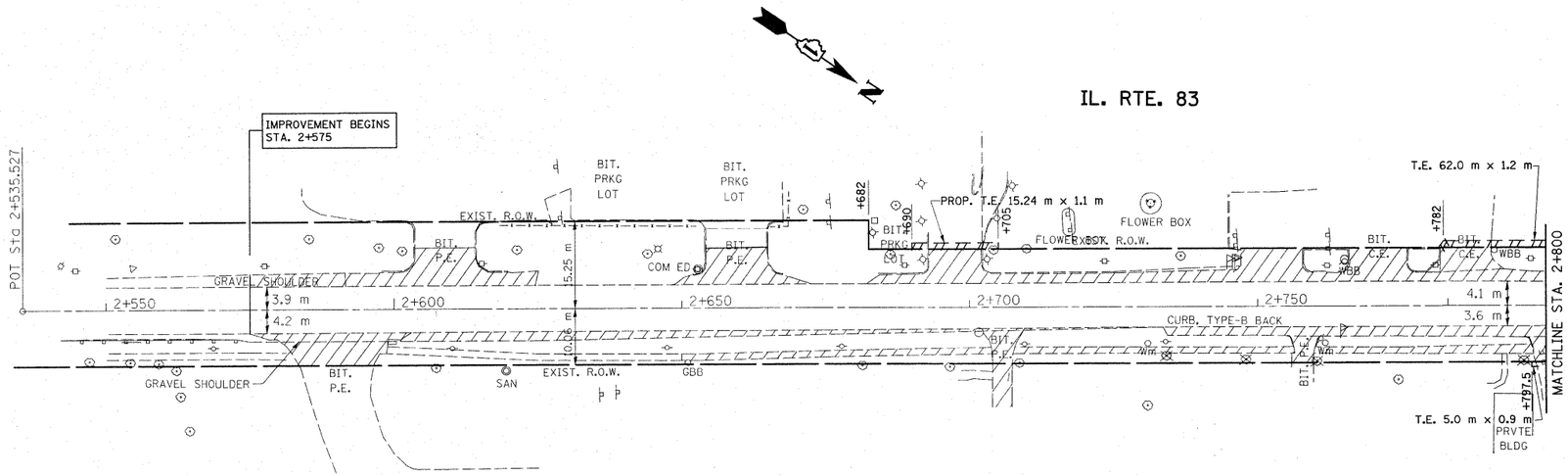
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

9 PM

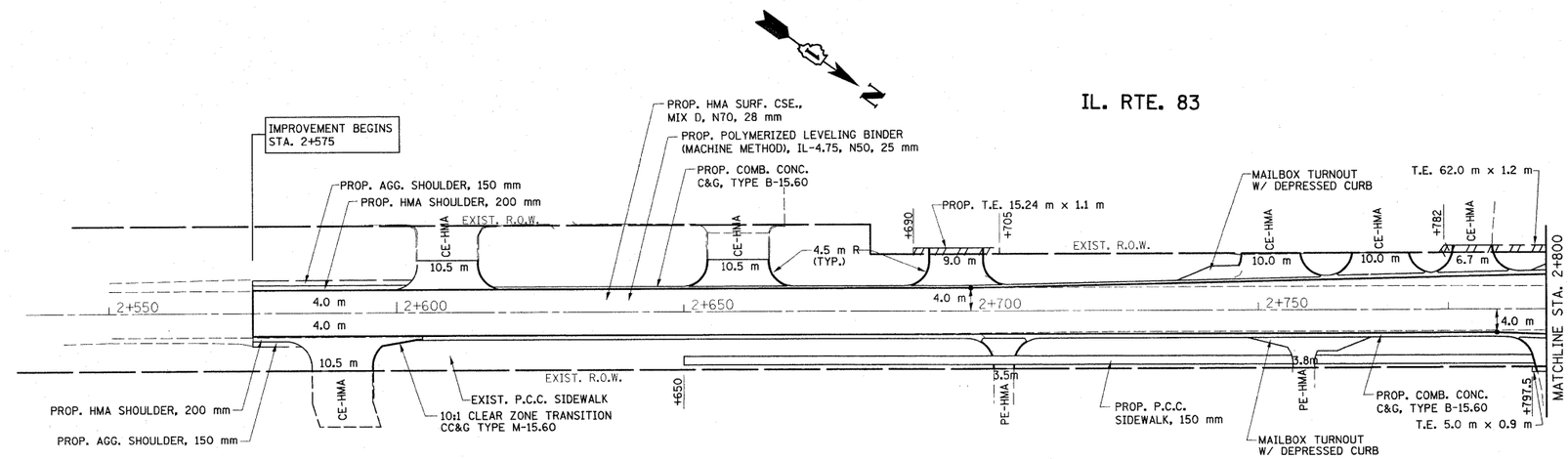
•REF-pp4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	24
STA. 2+575		TO STA. 2+800		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

EXISTING



PROPOSED



NOTE:
FOR SECTION WITH PROFILE CORRECTION
ADD HOT-MIX ASPHALT BINDER COURSE, IL-19, N70

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE. 83 (MILWAUKEE AVE.) @ IL. RTE. 132 (GRAND AVE.) EXISTING AND PROPOSED ROADWAY PLAN

SCALE: 1:500 DRAWN BY

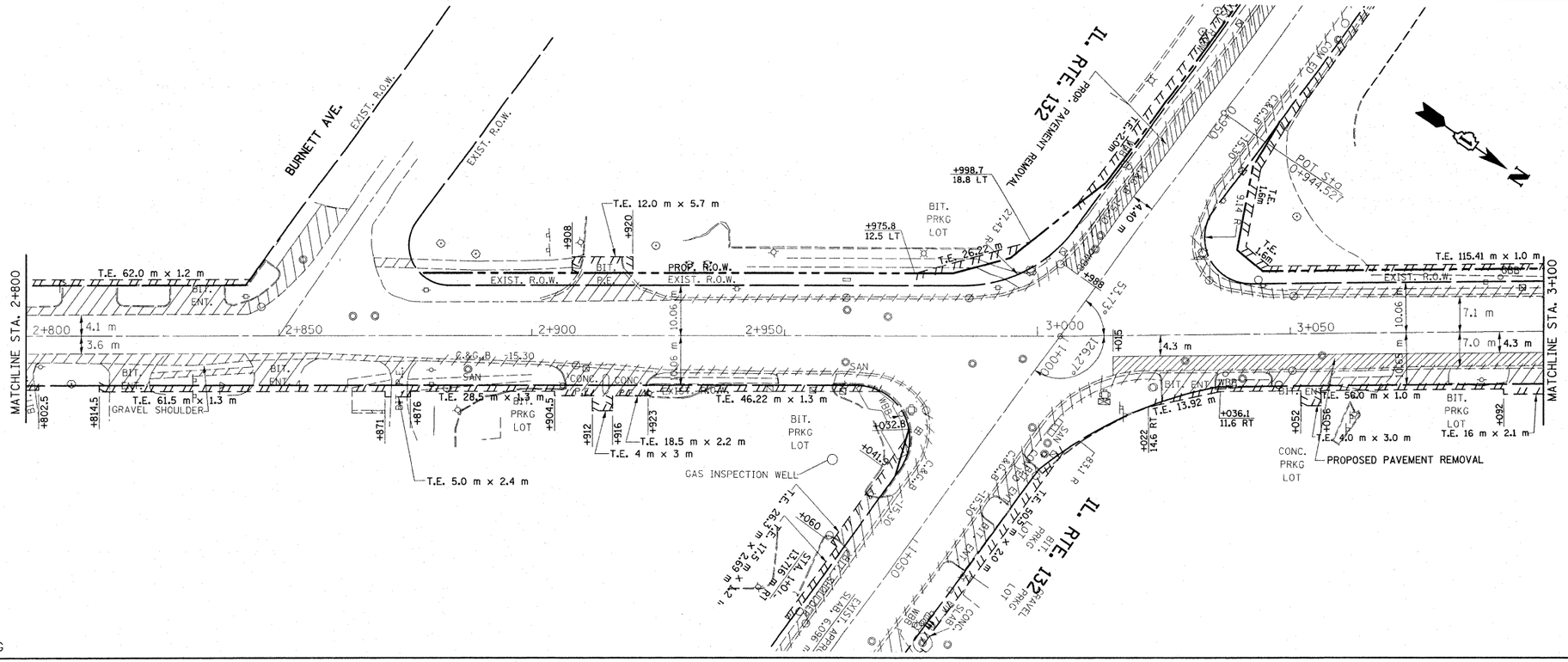
DATE: 11/9/2009 CHECKED BY

11/9/2009
c:\pw_work\PWIDOT\BAUERDL\d0108089\PI04498-sht-plan2.dgn
bauerdl

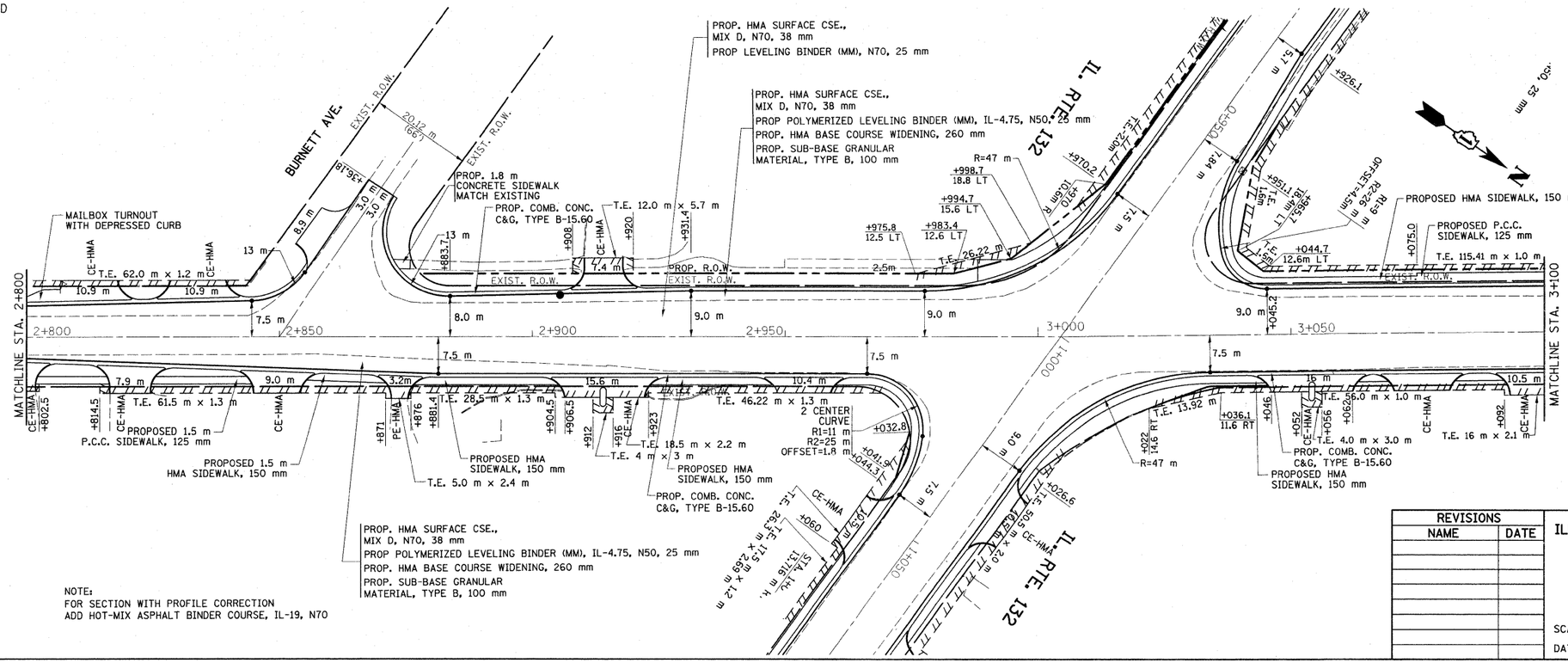
*REF-pp5

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	25
STA. 2+800		TO STA. 3+100		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

EXISTING



PROPOSED



NOTE:
FOR SECTION WITH PROFILE CORRECTION
ADD HOT-MIX ASPHALT BINDER COURSE, IL-19, N70

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE. 83 (MILWAUKEE AVE.) @ IL. RTE. 132 (GRAND AVE.) EXISTING AND PROPOSED ROADWAY PLAN

SCALE: 1:500 DRAWN BY

DATE: 11/9/2009 CHECKED BY

11/9/2009
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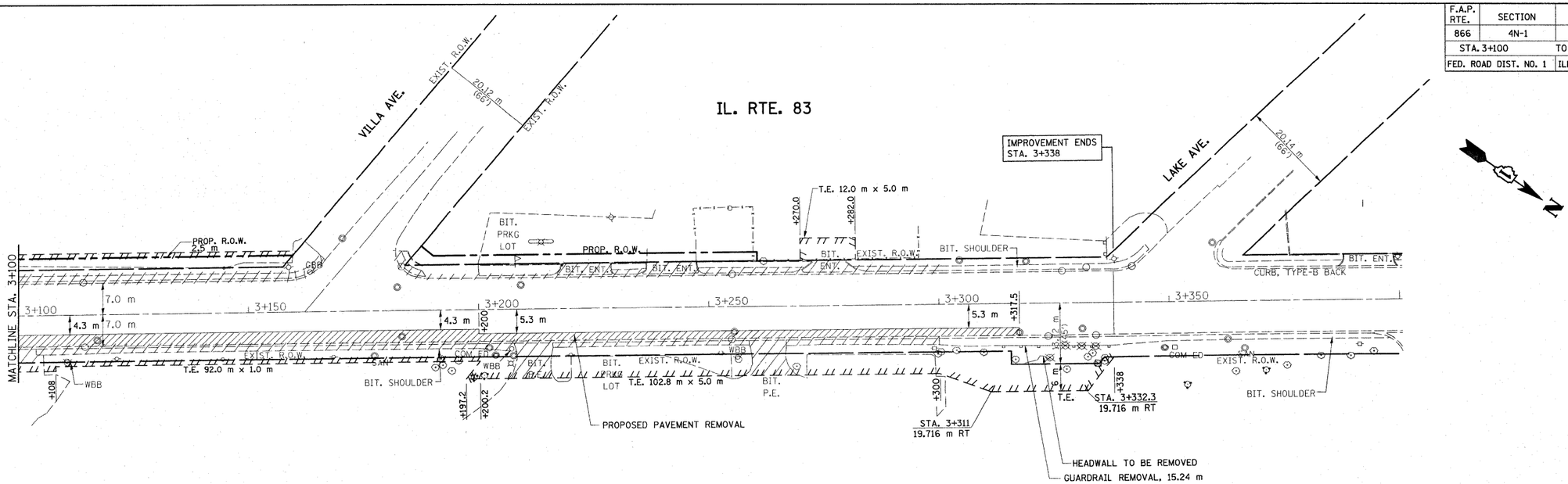
bauerdl

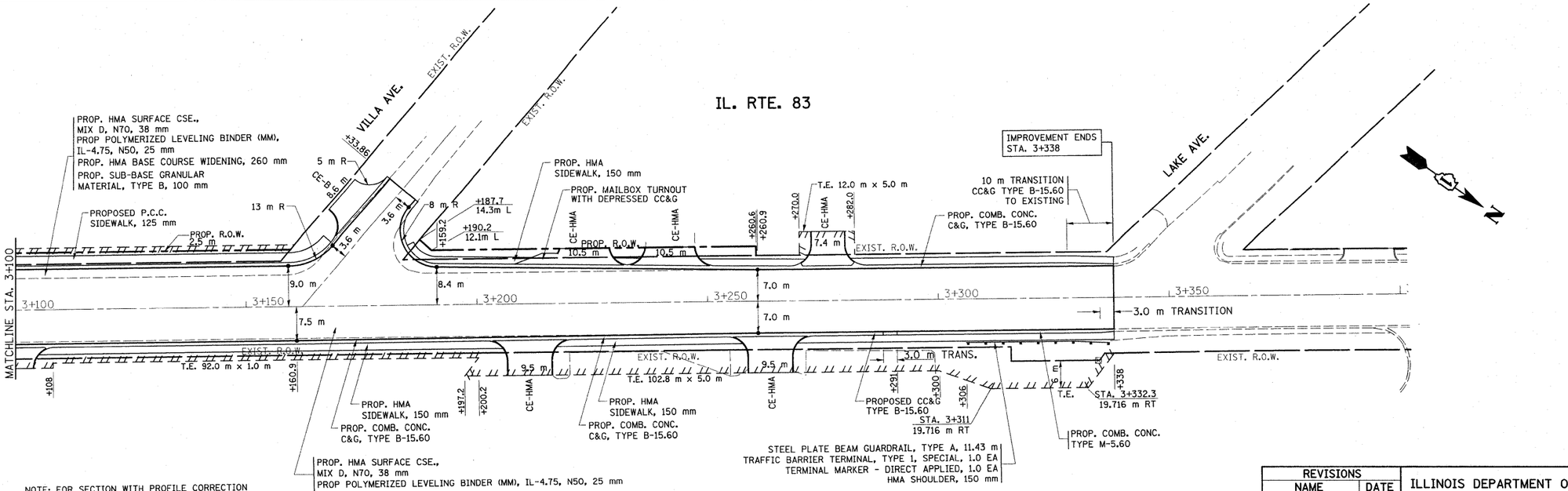
*REF-pp6

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	26
STA. 3+100		TO STA. 3+338		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

EXISTING



PROPOSED



NOTE: FOR SECTION WITH PROFILE CORRECTION
ADD HOT-MIX ASPHALT BINDER COURSE, IL-19, N70

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE. 83 (MILWAUKEE AVE.) @ IL. RTE. 132 (GRAND AVE.) EXISTING AND PROPOSED ROADWAY PLAN

SCALE: 1:500 DRAWN BY

DATE: 11/9/2009 CHECKED BY

11/9/2009
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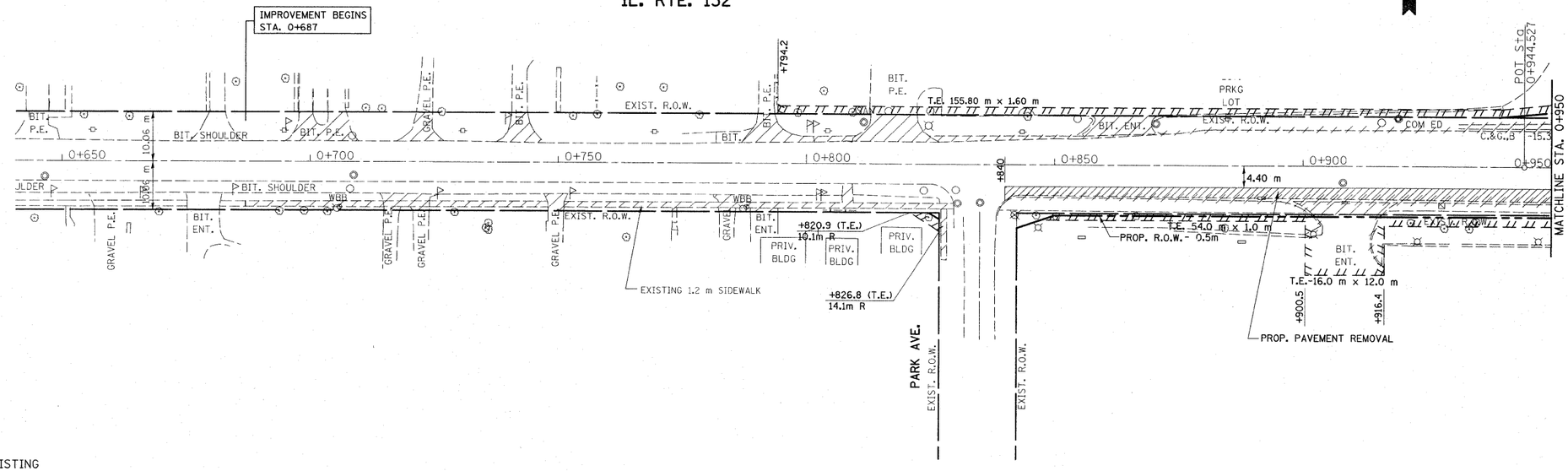
bauerdl

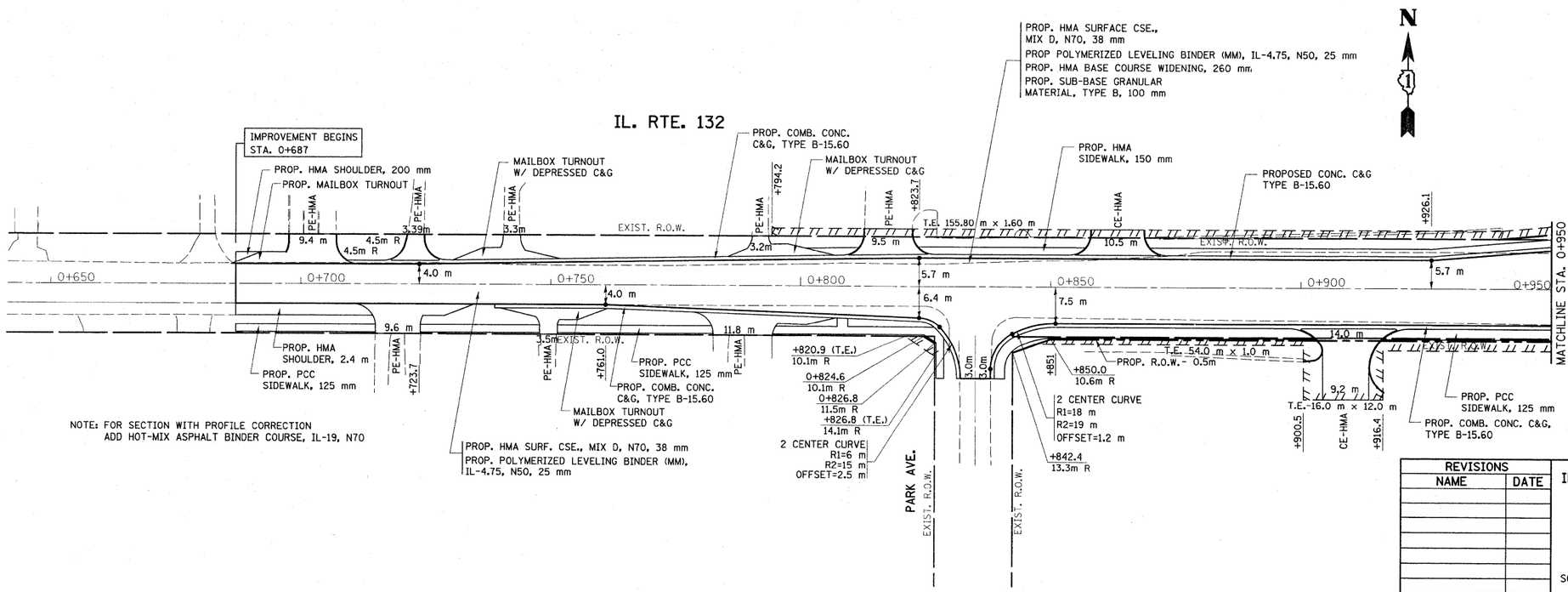
*REF-ppl

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	27
STA. 0+687		TO STA. 0+950		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

EXISTING



PROPOSED



NOTE: FOR SECTION WITH PROFILE CORRECTION
ADD HOT-MIX ASPHALT BINDER COURSE, IL-19, N70

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE. 83 (MILWAUKEE AVE.) @ IL. RTE. 132 (GRAND AVE.) EXISTING AND PROPOSED ROADWAY PLAN

SCALE: 1:500 DRAWN BY

DATE: 11/9/2009 CHECKED BY

11/9/2009
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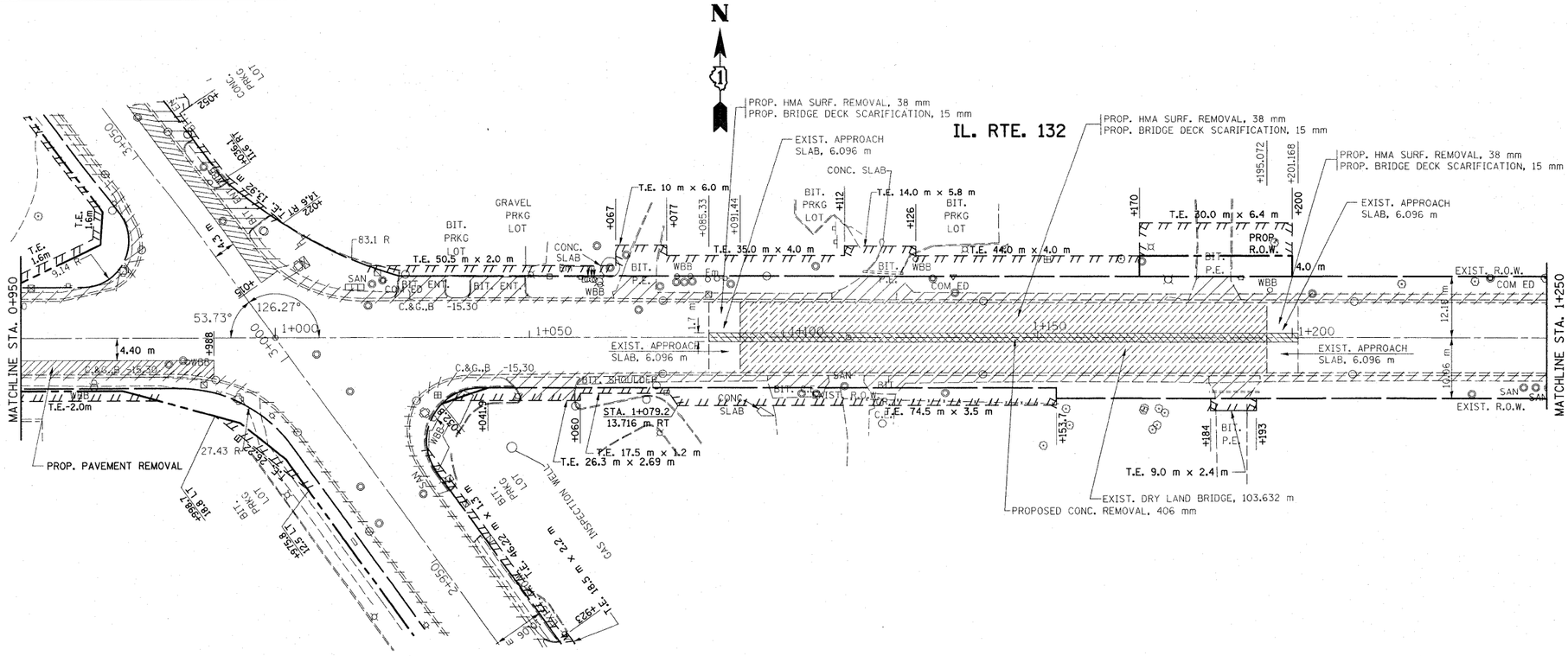
bauerdl

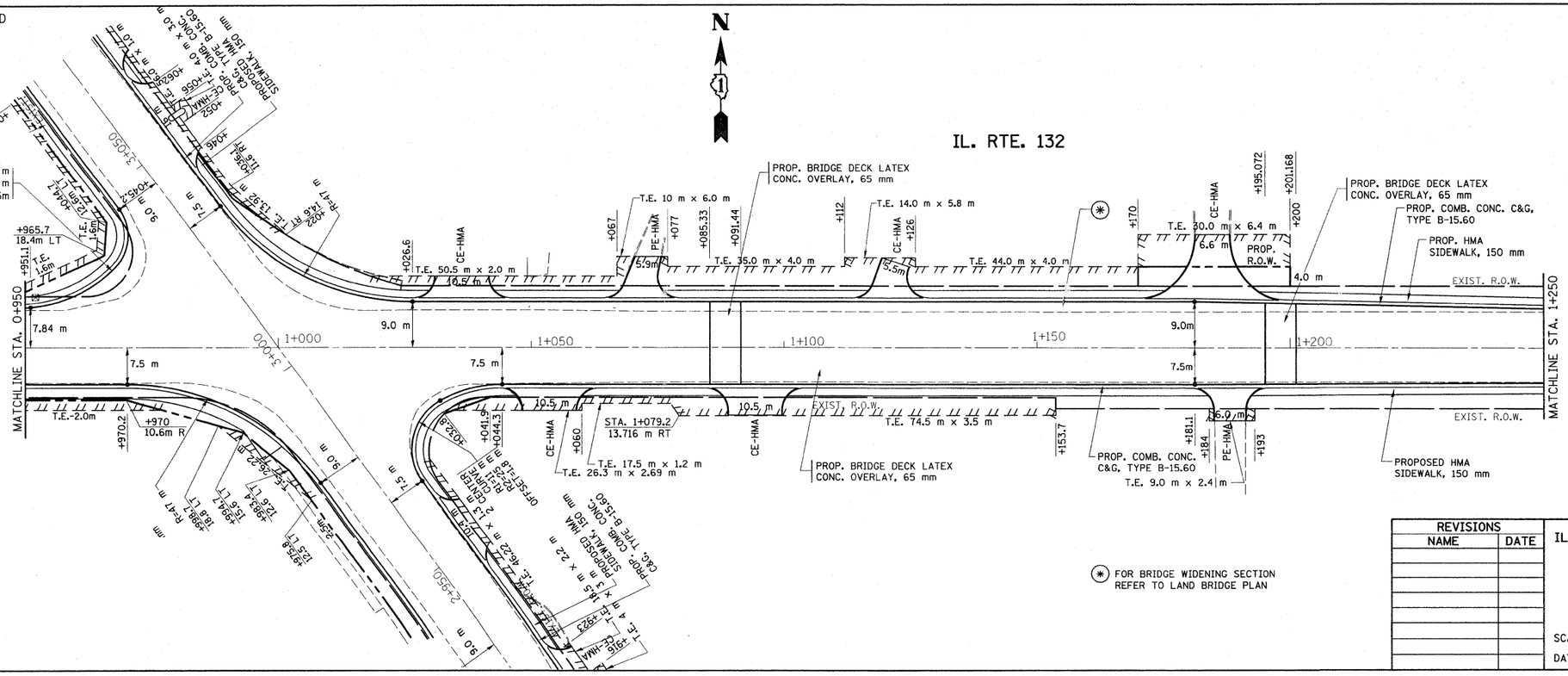
*REF-pp1
*REF-pp2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	28
STA. 0+950		TO STA. 1+250		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

EXISTING



PROPOSED



(*) FOR BRIDGE WIDENING SECTION REFER TO LAND BRIDGE PLAN

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE. 83 (MILWAUKEE AVE.) @ IL. RTE. 132 (GRAND AVE.) EXISTING AND PROPOSED ROADWAY PLAN

SCALE: 1:500 DRAWN BY

DATE: 10/15/2009 CHECKED BY

10/15/2009
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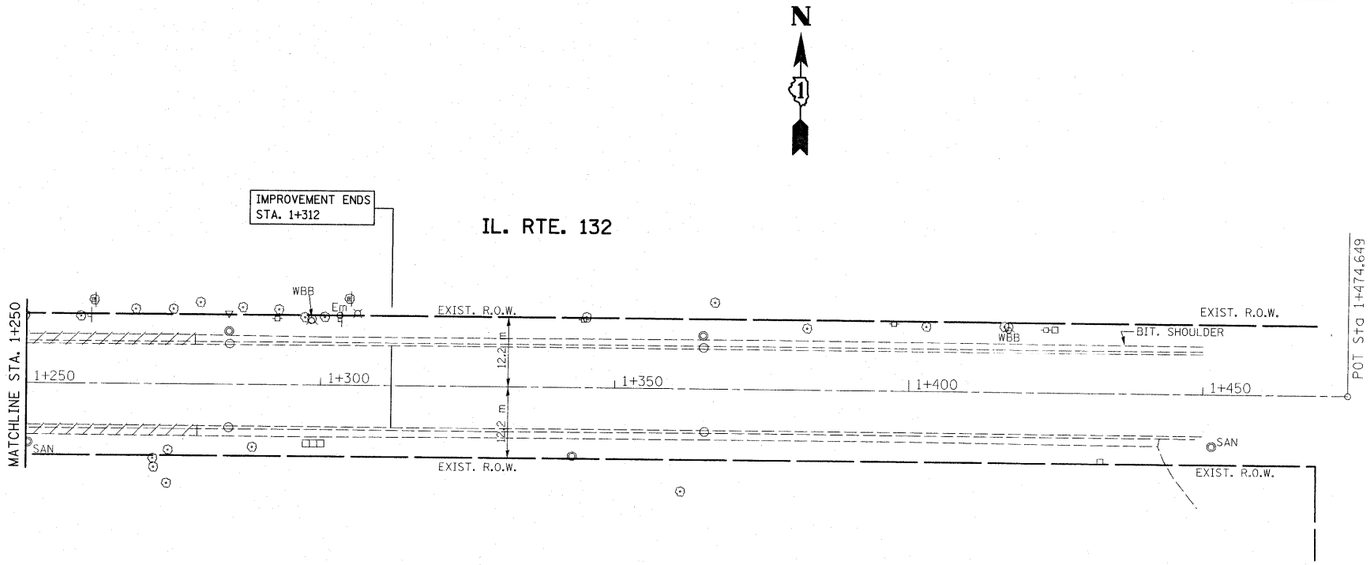
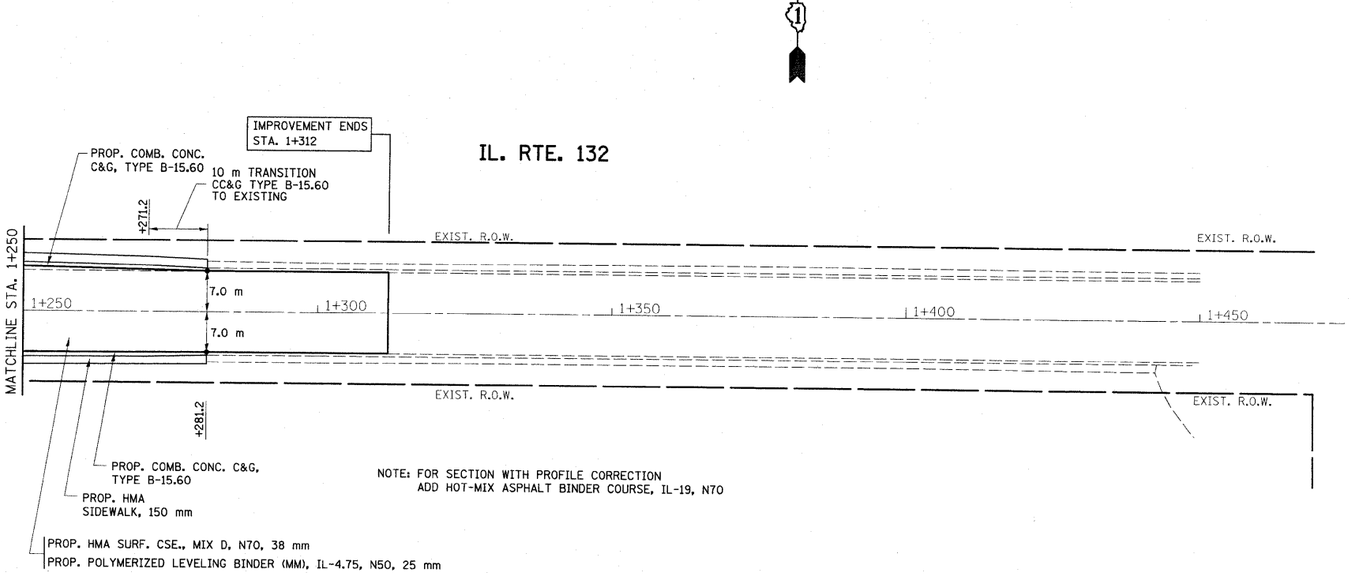
bauerdl

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	29
STA. 1+250		TO STA. 1+311.33		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

EXISTING



PROPOSED



NOTE: FOR SECTION WITH PROFILE CORRECTION
ADD HOT-MIX ASPHALT BINDER COURSE, IL-19, N70

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE. 83 (MILWAUKEE AVE.) @ IL. RTE. 132 (GRAND AVE.) EXISTING AND PROPOSED ROADWAY PLAN

SCALE: 1:500 DRAWN BY

DATE: 11/9/2009 CHECKED BY

11/9/2009
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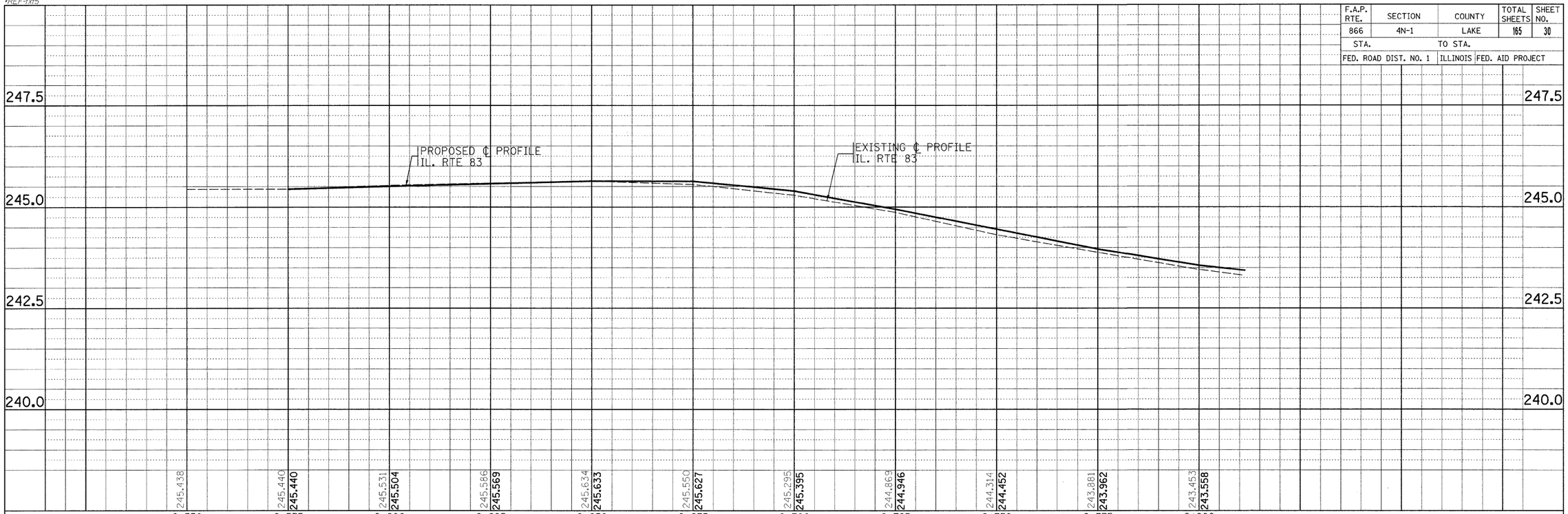
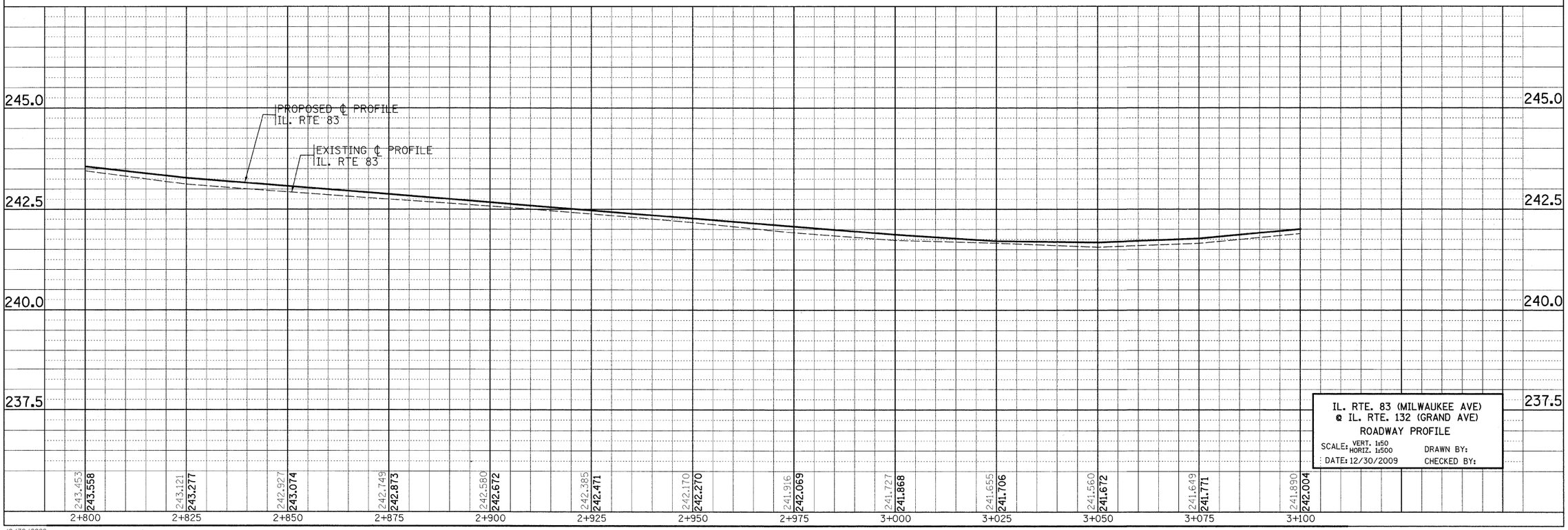
bauerdl

*REF-prof4
*REF-txt4
*REF-prof5
*REF-txt5

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	30
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





IL. RTE. 83 (MILWAUKEE AVE)
@ IL. RTE. 132 (GRAND AVE)
ROADWAY PROFILE

SCALE: VERT. 1:50
HORIZ. 1:500
DRAWN BY:
DATE: 12/30/2009
CHECKED BY:

12/30/2009
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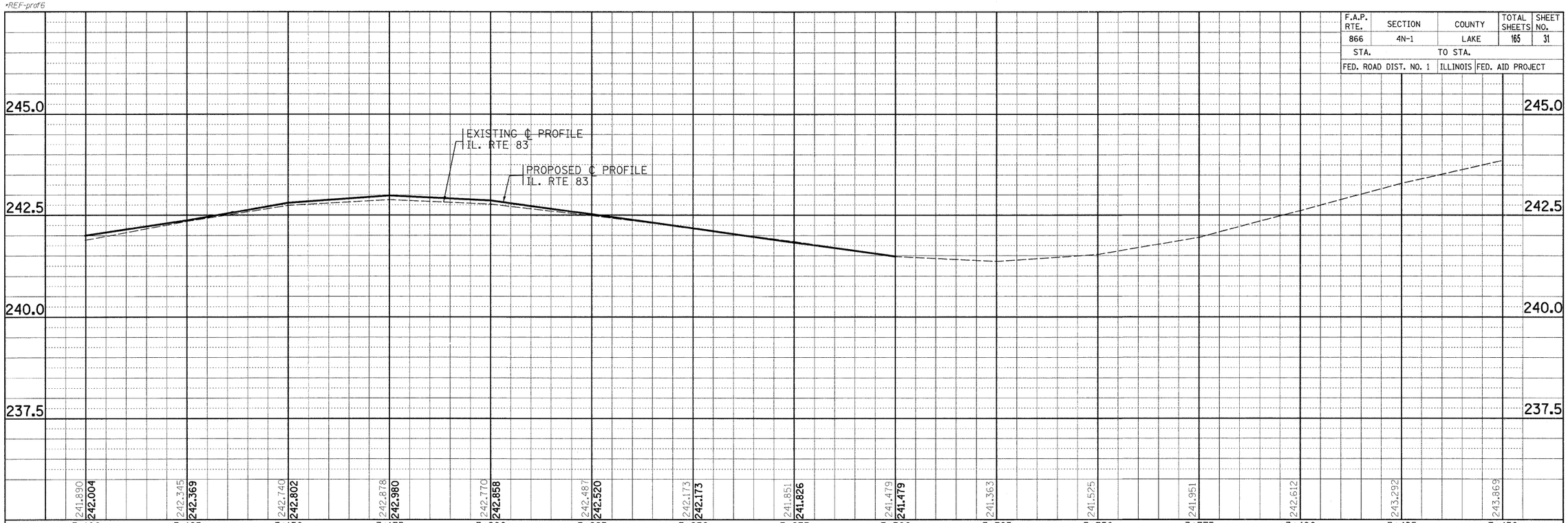
drlvakosgn

*REF-prof6

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	31
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



IL. RTE. 83 (MILWAUKEE AVE)
@ IL. RTE. 132 (GRAND AVE)
ROADWAY PROFILE

SCALE: VERT. 1:50
HORIZ. 1:500

DRAWN BY:

DATE: 10/30/2009

CHECKED BY:

10/30/2009
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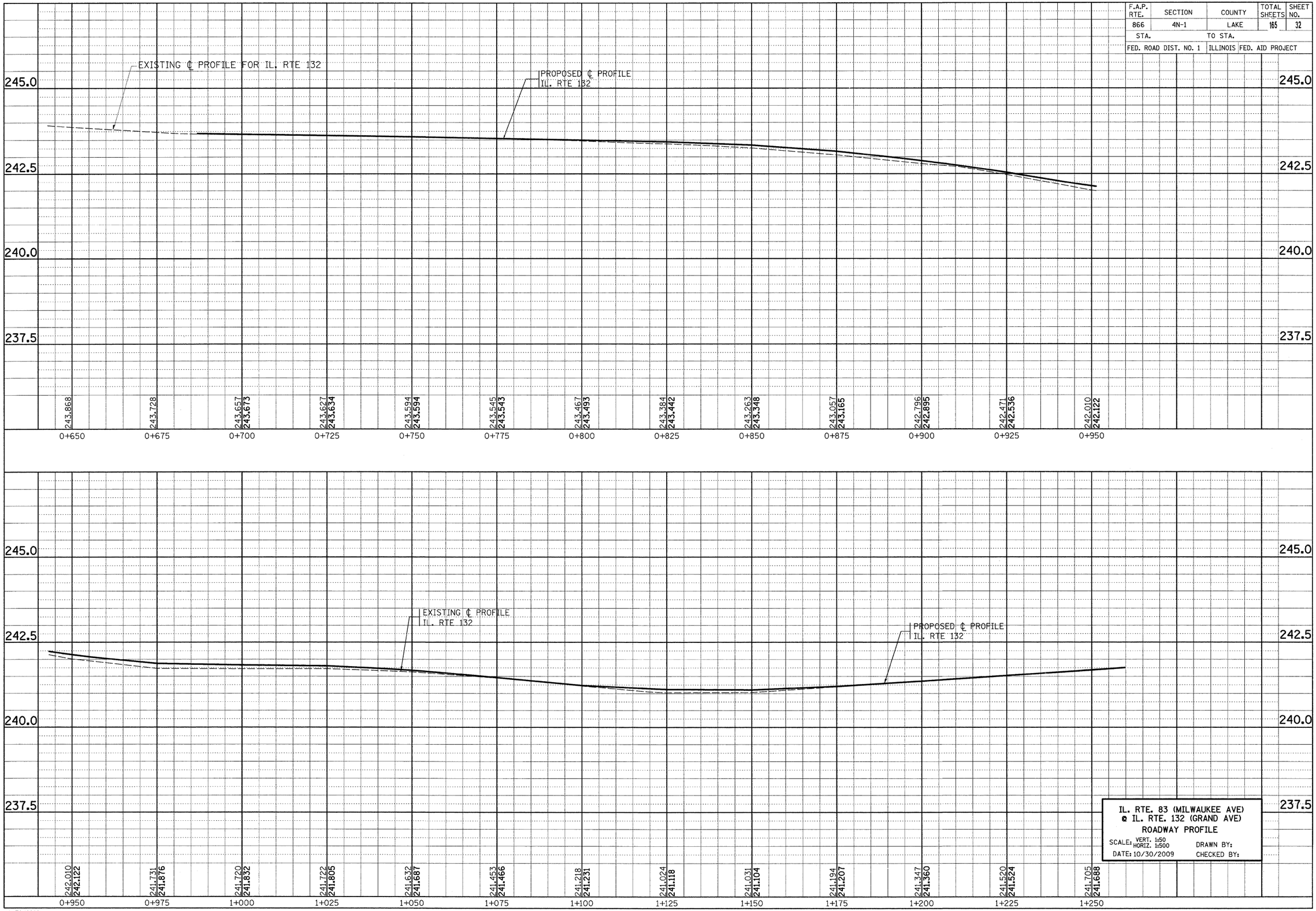
ulrichkd

*REF-prof1
*REF-prof2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	32
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



IL. RTE. 83 (MILWAUKEE AVE)
@ IL. RTE. 132 (GRAND AVE)
ROADWAY PROFILE

SCALE: VERT. 1:50 HORIZ. 1:500 DRAWN BY:
DATE: 10/30/2009 CHECKED BY:

10/30/2009
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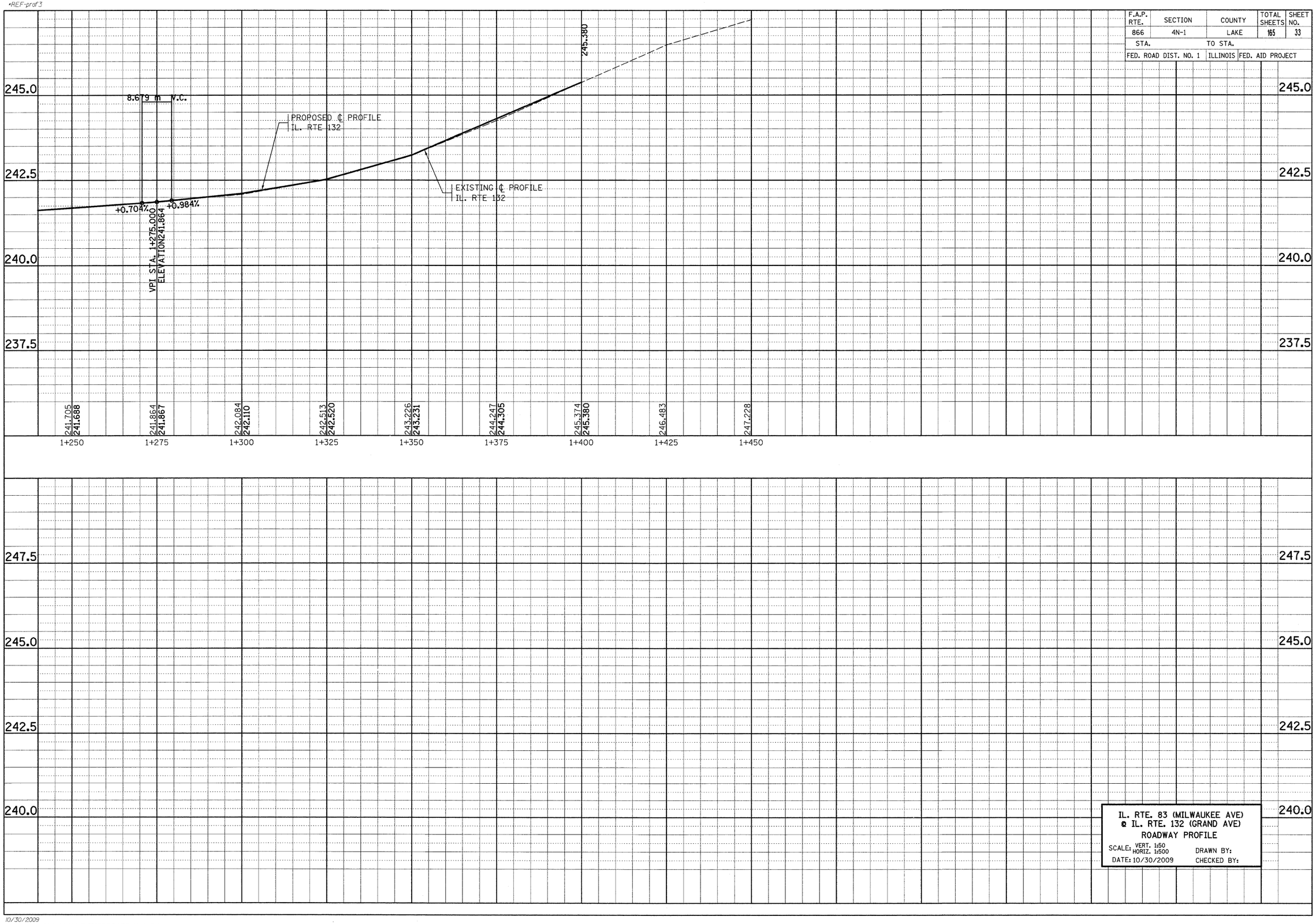
ulrichkd

*REF-prof3

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	33
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



IL. RTE. 83 (MILWAUKEE AVE)
@ IL. RTE. 132 (GRAND AVE)
ROADWAY PROFILE

SCALE: VERT. 1:50
HORIZ. 1:500
DRAWN BY:
DATE: 10/30/2009
CHECKED BY:

10/30/2009
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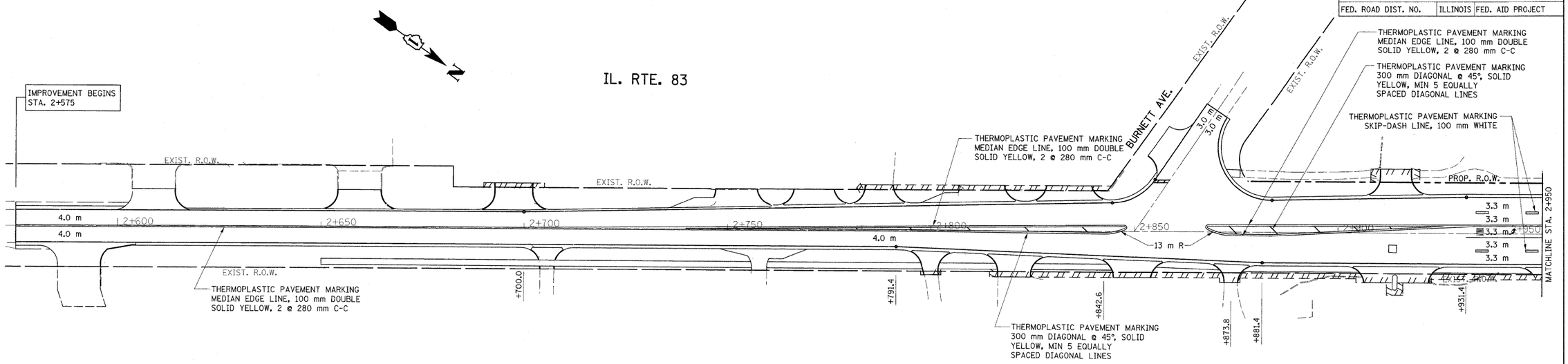
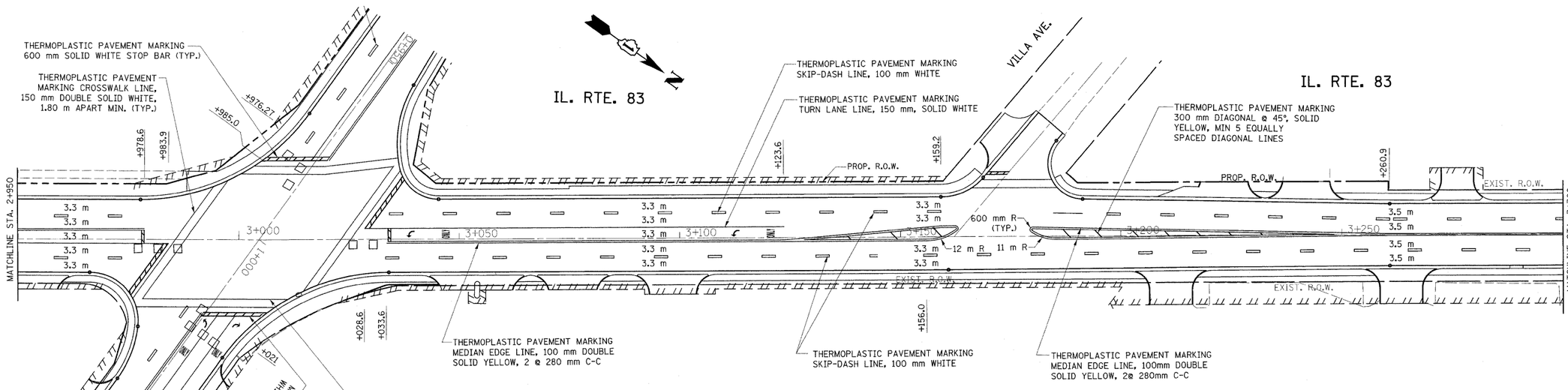
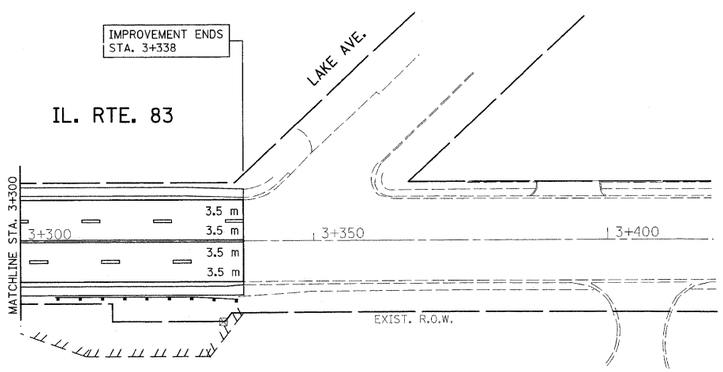
ulrichkd

*REF:pmk3
*REF:pmk4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	34
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	







NOTES:

1. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR LANE.
2. ALL FINAL PAVEMENT MARKINGS ARE THERMOPLASTIC.
3. FOR PAVEMENT MARKING DETAILS SEE SPECIAL DETAIL SHEETS FOR "DISTRICT ONE PAVEMENT MARKINGS".
4. FOR DETAILS AND SYMBOLS OF RAISED REFLECTIVE PAVEMENT MARKERS, SEE SPECIAL DETAIL SHEETS FOR "DISTRICT ONE TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)". DUAL ONE WAY CRYSTAL MARKERS SHALL BE USED ON SKIP-DASH LANE LINES.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE 83 (MILWAUKEE AVE.) @ IL. RTE. 132 (GRAND AVE.) PROPOSED PAVEMENT MARKING PLAN

SCALE: 1:500 DRAWN BY
DATE 2/8/2010 CHECKED BY

2/8/2010
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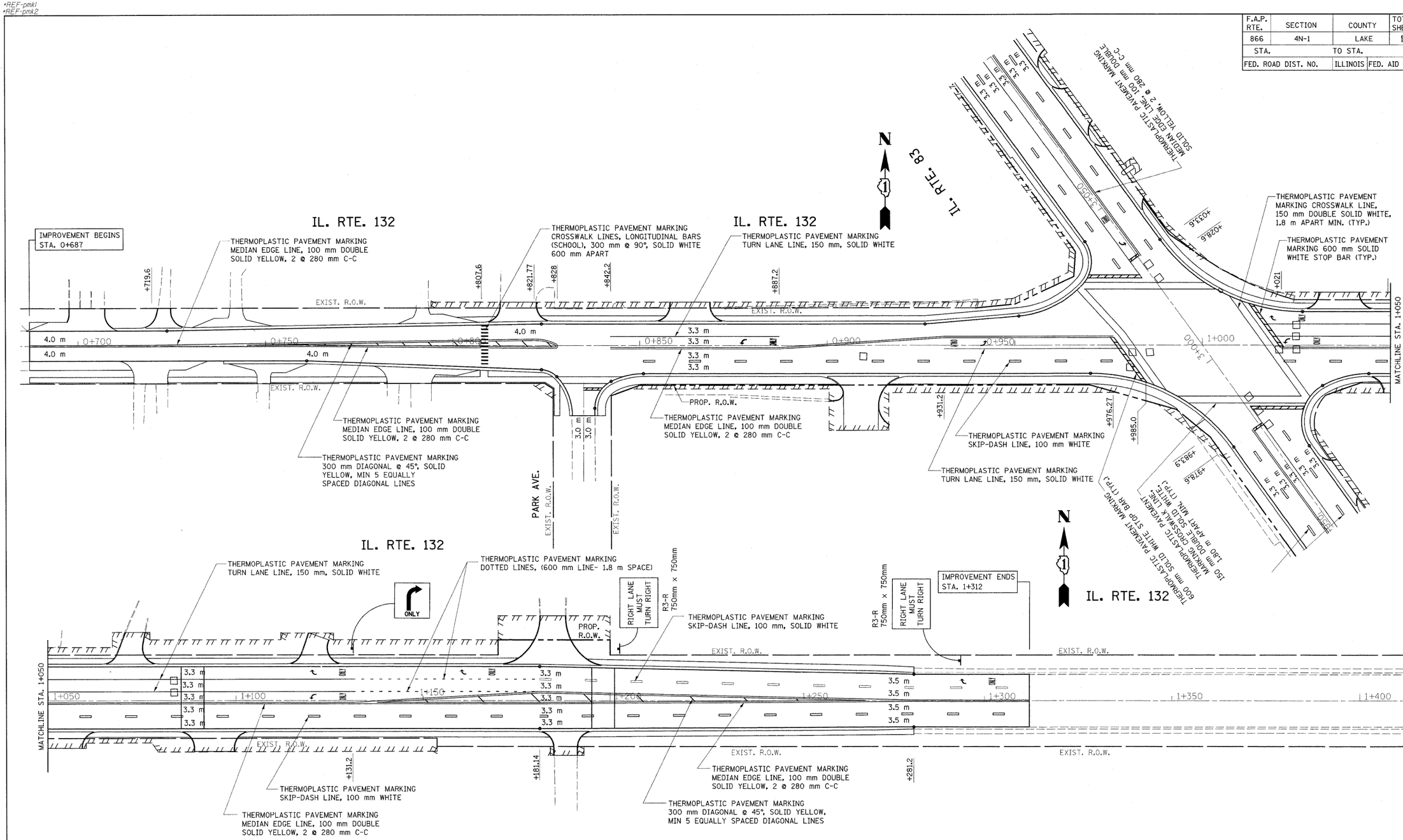
ilszekrf

*REF-pmk1
*REF-pmk2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	35
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



NOTES:

1. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR LANE.
2. ALL FINAL PAVEMENT MARKINGS ARE THERMOPLASTIC.
3. FOR PAVEMENT MARKING DETAILS SEE SPECIAL DETAIL SHEETS FOR "DISTRICT ONE PAVEMENT MARKINGS".
4. FOR DETAILS AND SYMBOLS OF RAISED REFLECTIVE PAVEMENT MARKERS, SEE SPECIAL DETAIL SHEETS FOR "DISTRICT ONE TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)". DUAL ONE WAY CRYSTAL MARKERS SHALL BE USED ON SKIP-DASH LANE LINES.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE 83 (MILWAUKEE AVE.) @ IL. RTE. 132 (GRAND AVE.) PROPOSED PAVEMENT MARKING PLAN

SCALE: 1:500
DATE 2/8/2010
DRAWN BY
CHECKED BY

2/8/2010
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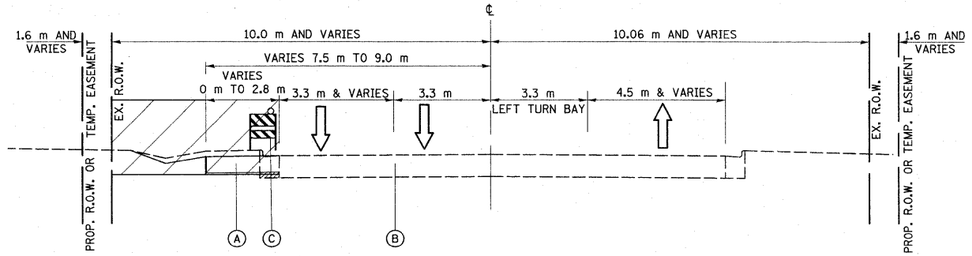
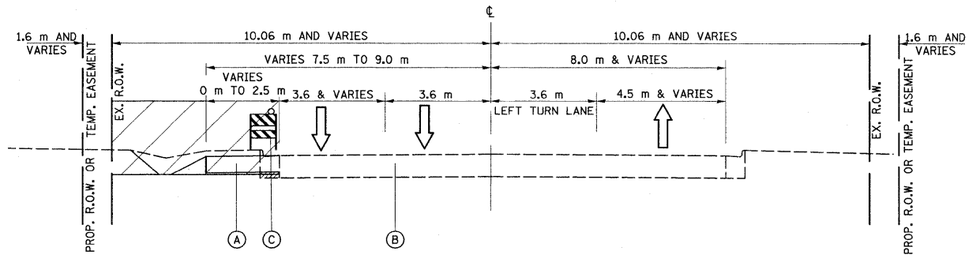
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	36
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



ADVANCED STAGE IL. 83
STA. 2+835 TO STA. 3+232



ADVANCED STAGE IL. 132
STA. 0+613 TO STA. 1+078

LEGEND

- Ⓐ TEMPORARY PAVEMENT, 260 mm
- Ⓑ EXISTING RESURFACED PAVEMENT ±368 mm
- Ⓒ DRUMS OR BARRICADES W/ STEADY BURNING LIGHT
- Ⓓ PROPOSED STORM SEWER
- Ⓔ PROPOSED TRENCH BACKFILL
- Ⓕ PROPOSED HMA BASE COURSE WIDENING, 260 mm
- Ⓖ PROPOSED 100mm SUBBASE GRANULAR MATERIAL, TYPE B
- Ⓗ PROPOSED COMBINATION CONCRETE CURB & GUTTER, TYPE B-15.60
- Ⓘ TEMPORARY PAVEMENT MARKING (2-100 m YELLOW @ 280 mm C-C SOUTH LEG;
- Ⓙ ONE LINE 100 mm WHITE - NORTH LEG)
  TEMPORARY PAVEMENT MARKING (ONE LINE 100 mm WHITE - SOUTH LEG;
- Ⓚ 2-100 mm @ 50 mm C-C W/ YELLOW - NORTH LEG)
  TEMPORARY PAVEMENT REMOVAL
- Ⓛ PROPOSED P.C.C. SIDEWALK, 125 mm

REMOVAL ITEMS

CONSTRUCTION AREA

VERTICAL PANEL

DIRECTION OF TRAFFIC

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE. 83 (MILWAUKEE AVE.)
@ IL. RTE. 132 (GRAND AVE.)
SUGGESTED ADVANCE TRAFFIC CONTROL
AND STAGES OF CONSTRUCTION
TYPICAL SECTIONS

SCALE: DRAWN BY

DATE: 11/9/2009 CHECKED BY

11/9/2009
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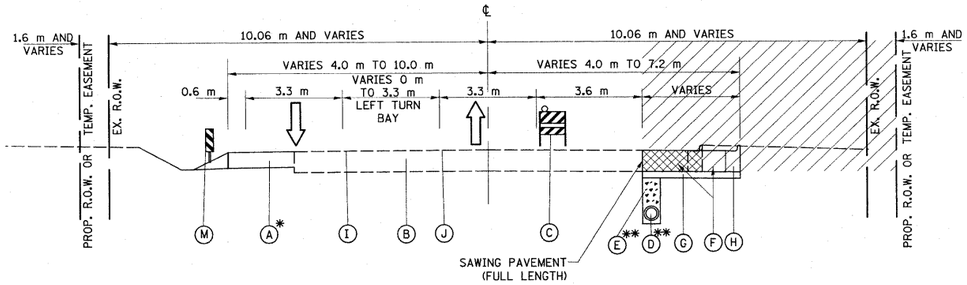
•REF-stgIa
•REF-stgIb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	37
STA. 0+687		TO STA. 1+250		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

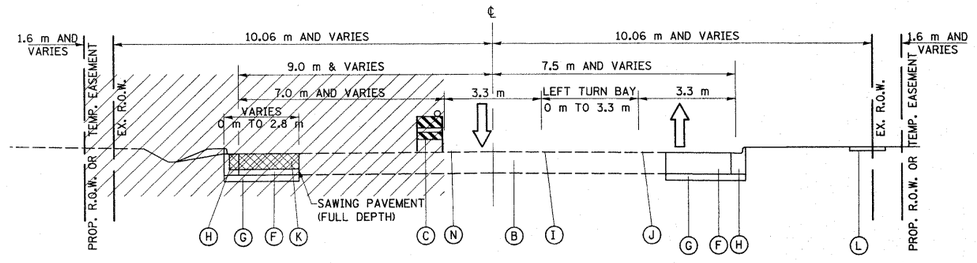


IL RTE 83
STAGE I CONSTRUCTION

*TEMPORARY PAVEMENT STA. 0+613 TO STA. 1+078

**PROP. STORM SEWER
SOUTH SIDE STA. 0+645 TO STA. 1+078
STA. TO STA.

(A)* TWO LINES 100 mm YELLOW @ 250 mm C-C (SOUTH LEG)
ONE LINE 100 mm WHITE (NORTH LEG)

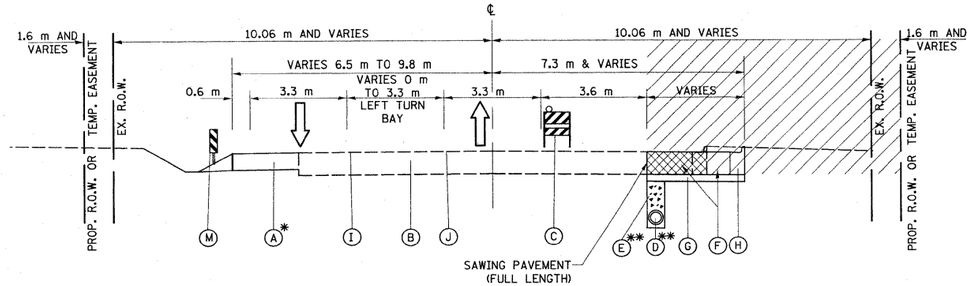


IL RTE 83
STAGE II CONSTRUCTION

LEGEND

(A) TEMPORARY PAVEMENT, 260 mm
(B) EXISTING RESURFACED PAVEMENT ±368 mm
(C) DRUMS OF BARRICADES W/ STEADY BURNING LIGHT
(D) PROPOSED STORM SEWER
(E) PROPOSED TRENCH BACKFILL
(F) PROPOSED HMA BASE COURSE WIDENING 260 mm
(G) PROPOSED 100mm SUBBASE GRANULAR MATERIAL, TYPE B
(H) PROPOSED COMBINATION CONCRETE CURB & GUTTER, TYPE B-15.60
(I) TEMPORARY PAVEMENT MARKING (2-100 mm YELLOW @ 280 mm C-C SOUTH LEG; ONE LINE 100 mm WHITE - NORTH LEG) ONE LINE 100 mm YELLOW - NORTH LEG)
(I-1) TEMPORARY PAVEMENT MARKING (2-100 mm YELLOW @ 280 mm C-C EAST LEG; ONE LINE 100 mm WHITE - WEST LEG) ONE LINE 100 mm YELLOW - WEST LEG)
(J) TEMPORARY PAVEMENT MARKING (ONE LINE 100 mm WHITE - SOUTH LEG; 2-100 mm @ 280 mm C-C YELLOW - NORTH LEG)
(J-1) TEMPORARY PAVEMENT MARKING (ONE LINE 100 mm WHITE - WEST LEG, 2-100 mm C-C YELLOW EAST LEG) ONE LINE 100 mm YELLOW - EAST LEG)
(K) TEMPORARY PAVEMENT REMOVAL
(L) PROPOSED P.C.C. SIDEWALK, 125 mm
(M) VERTICAL PANELS
(N) TEMPORARY PAVEMENT MARKING (ONE LINE 150 mm - WHITE)
(O) TEMPORARY PAVEMENT MARKING (ONE LINE 150 mm - DOTTED WHITE)

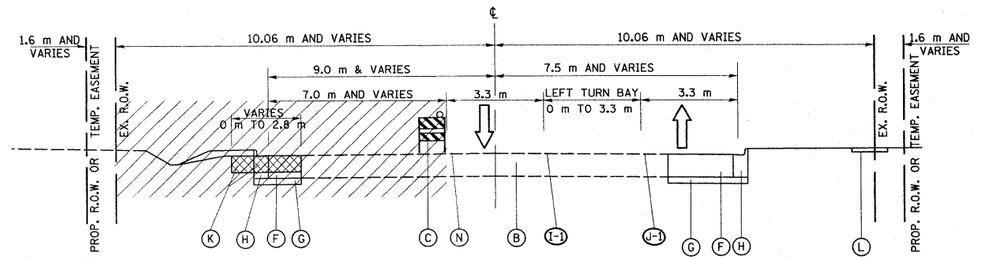
REMOVAL ITEMS
CONSTRUCTION AREA
VERTICAL PANEL
DIRECTION OF TRAFFIC



*TEMPORARY PAVEMENT STA. 2+835 TO STA. 3+232

**PROP. STORM SEWER
EAST SIDE STA. 2+630 TO STA. 2+987
AND STA. 2+998 TO STA. 3+317±

IL RTE. 132
STAGE I CONSTRUCTION



NOTE: FOR THE DRYLAND BRIDGE
SEE SEPERATE CROSS SECTION

IL RTE. 132
STAGE II CONSTRUCTION

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL. RTE. 83 (MILWAUKEE AVE.)
IL. RTE. 132 (GRAND AVE.)
SUGGESTED TRAFFIC CONTROL AND STAGES OF CONSTRUCTION
TYPICAL SECTIONS

SCALE:
DRAWN BY
DATE: 11/9/2009
CHECKED BY

11/9/2009
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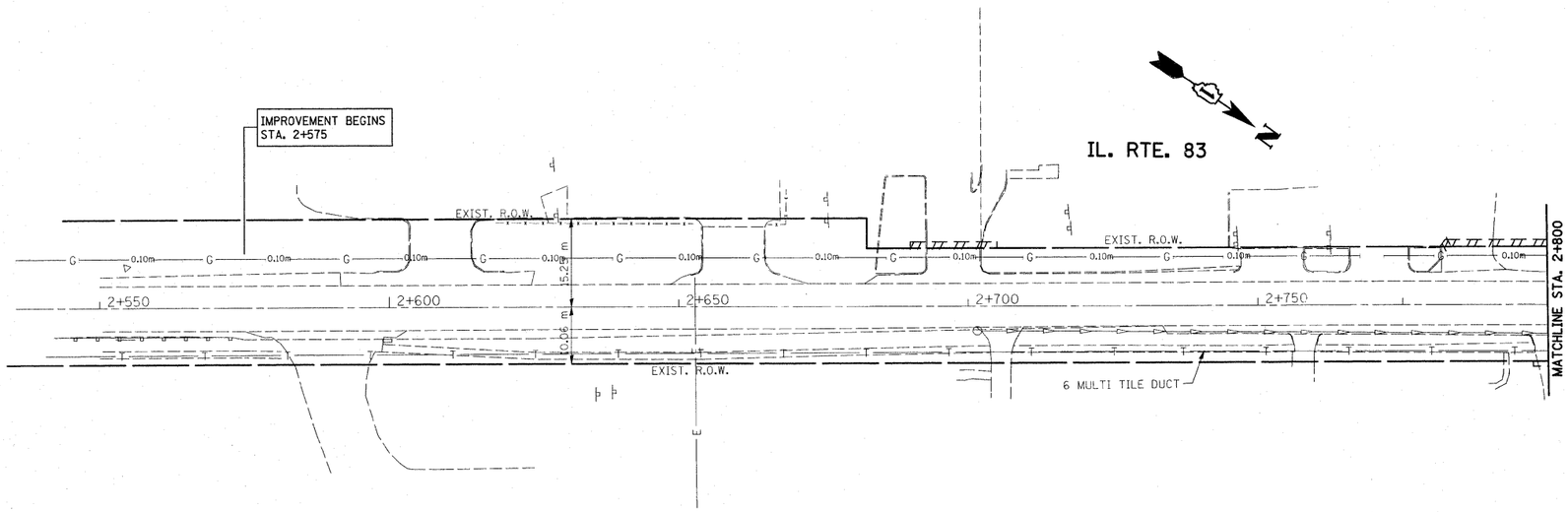
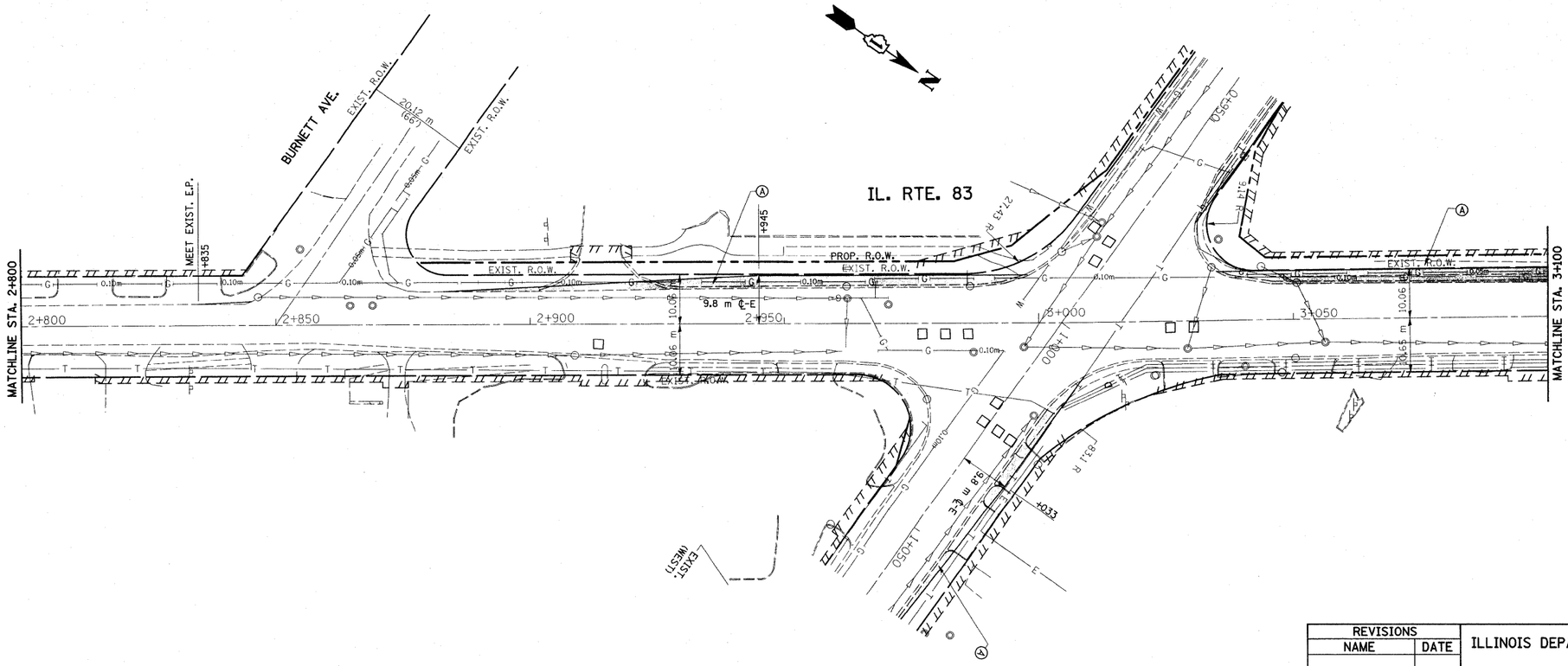
•REF-stgadvd

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	38
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	





REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE. 83 (MILWAUKEE AVE.)
@ IL. RTE. 132 (GRAND AVE.)
SUGGESTED ADVANCED TRAFFIC CONTROL
AND STAGES OF CONSTRUCTION

SCALE: DRAWN BY

DATE: 7/29/2009 CHECKED BY

7/29/2009
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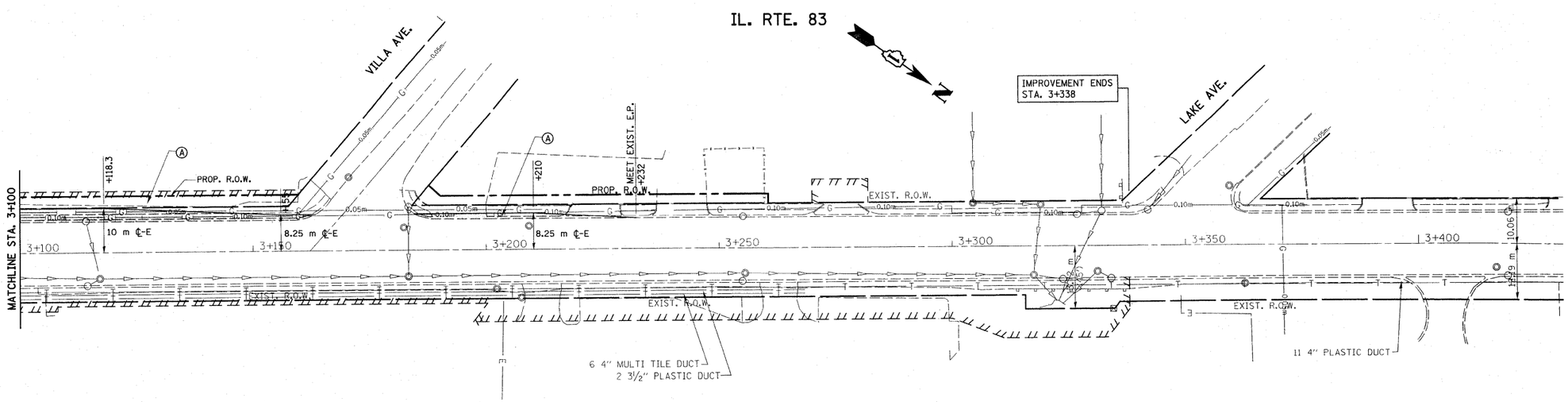
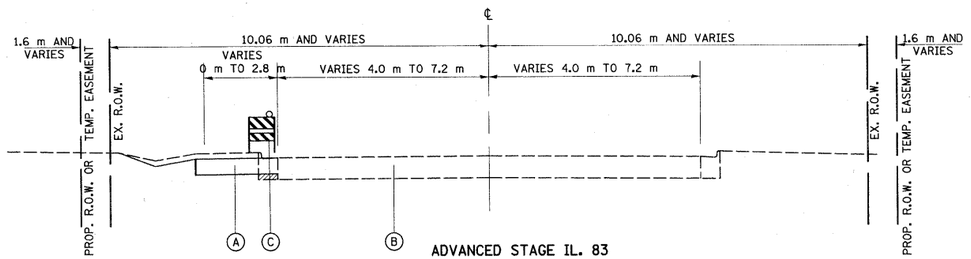
bauerdl

•REF-stgadvc
•REF-stgadvd

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	39
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	





ADVANCED STAGE IL. 83
STA. 2+835 TO STA. 3+232

LEGEND

- Ⓐ TEMPORARY PAVEMENT, 260 mm
- Ⓑ EXISTING RESURFACED PAVEMENT ±368 mm
- Ⓒ DRUMS OR BARRICADES W/ STEADY BURNING LIGHT
- Ⓓ PROPOSED STORM SEWER
- Ⓔ PROPOSED TRENCH BACKFILL
- Ⓕ PROPOSED HMA BASE COURSE WIDENING 260 mm
- Ⓖ PROPOSED 100mm SUBBASE GRANULAR MATERIAL, TYPE B
- Ⓗ PROPOSED COMBINATION CONCRETE CURB & GUTTER, TYPE B-15.60
- Ⓘ TEMPORARY PAVEMENT MARKING (2-100 m YELLOW @ 3280 mm C-C SOUTH LEG; ONE LINE 100 mm WHITE - NORTH LEG)
- Ⓙ TEMPORARY PAVEMENT MARKING (ONE LINE 100 mm WHITE - SOUTH LEG; 2-100 mm @ 50 mm C-C W/ YELLOW - NORTH LEG)
- Ⓚ TEMPORARY PAVEMENT REMOVAL
- Ⓛ PROPOSED P.C.C. SIDEWALK, 125 mm

REMOVAL ITEMS

CONSTRUCTION AREA

VERTICAL PANEL

DIRECTION OF TRAFFIC

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE. 83 (MILWAUKEE AVE.)
@ IL. RTE. 132 (GRAND AVE.)
SUGGESTED ADVANCED TRAFFIC CONTROL
AND STAGES OF CONSTRUCTION

SCALE:
DRAWN BY
DATE: 11/9/2009
CHECKED BY

11/9/2009
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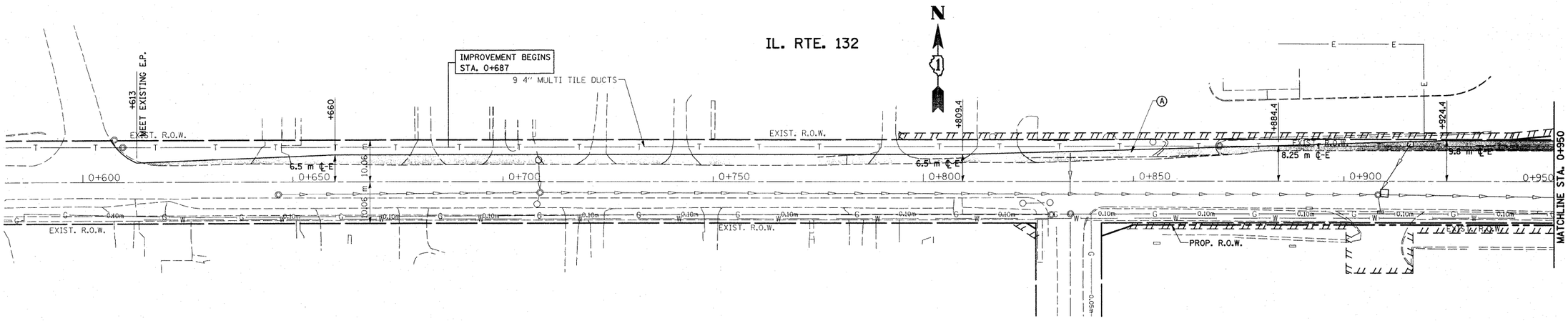
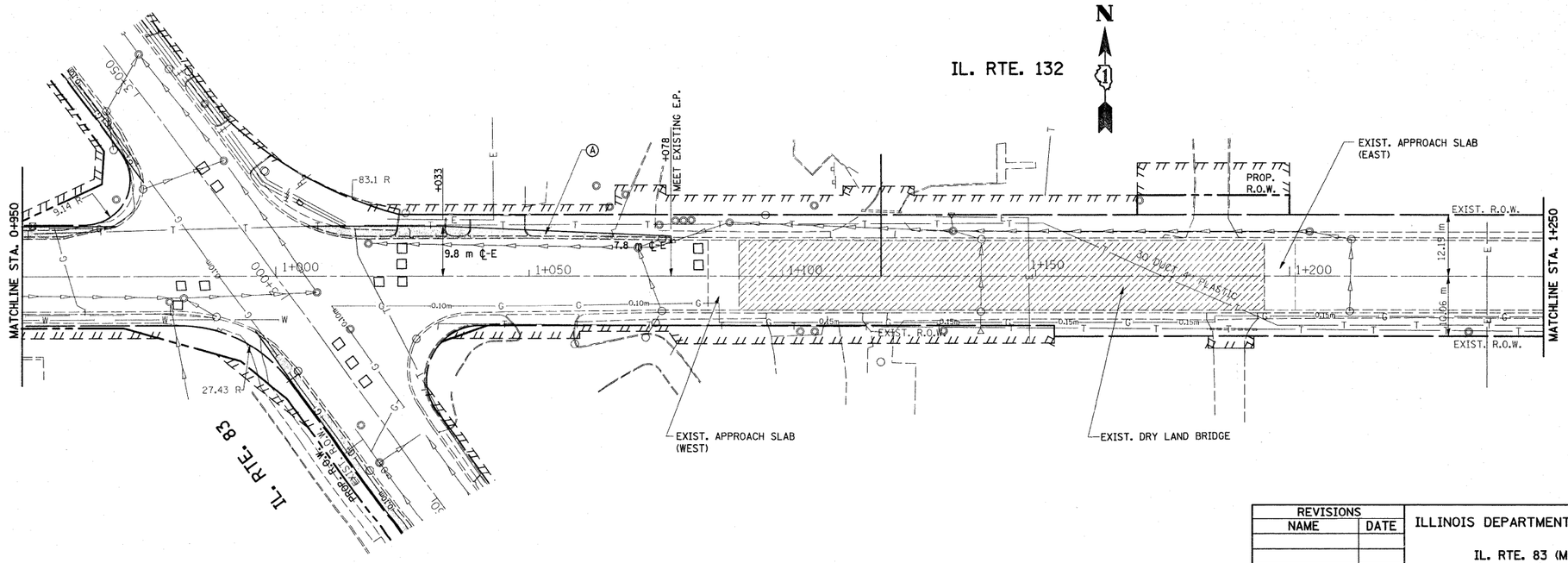
bauerdl

*REF-stgadvd

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	40
STA. 0+687		TO STA. 1+250		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	





REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE. 83 (MILWAUKEE AVE.)
@ IL. RTE. 132 (GRAND AVE.)
SUGGESTED ADVANCED TRAFFIC CONTROL
AND STAGES OF CONSTRUCTION

SCALE: DRAWN BY

DATE: 7/29/2009 CHECKED BY

7/29/2009
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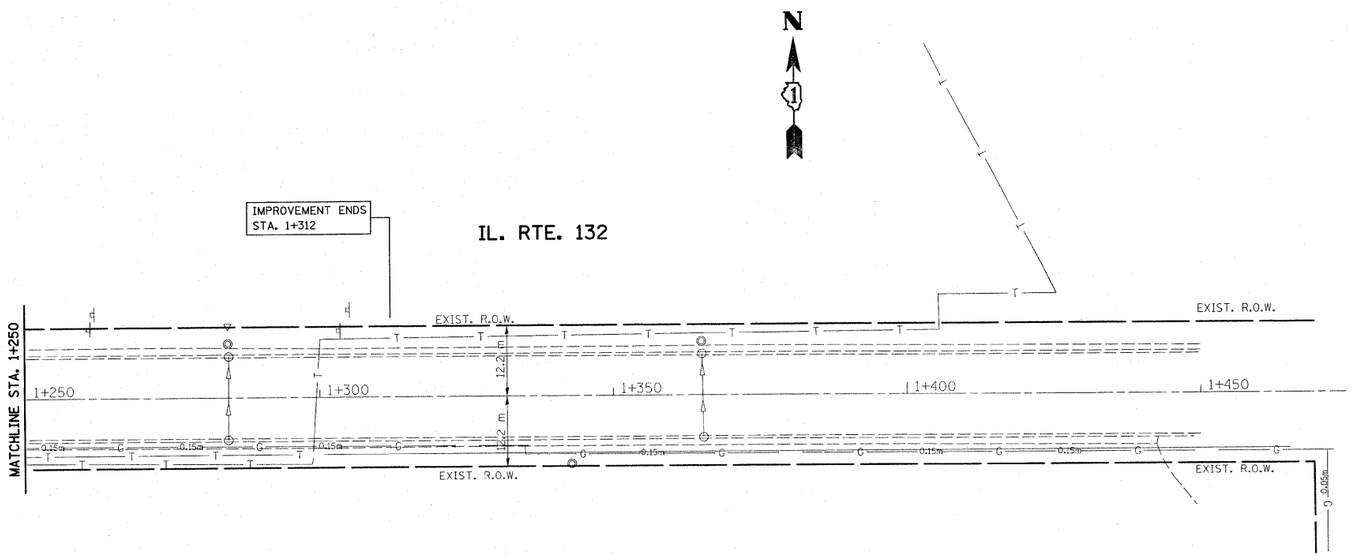
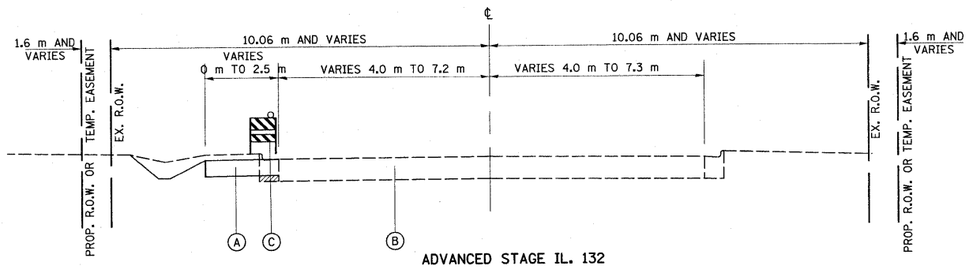
bauerdl

•REF-stgadvc
•REF-stgadvd

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	41
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	





ADVANCED STAGE IL. 132
STA. 0+613 TO STA. 1+078

LEGEND

- (A) TEMPORARY PAVEMENT, 260 mm
- (B) EXISTING RESURFACED PAVEMENT ±368 mm
- (C) DRUMS OR BARRICADES W/ STEADY BURNING LIGHT
- (D) PROPOSED STORM SEWER
- (E) PROPOSED TRENCH BACKFILL
- (F) PROPOSED HMA BASE COURSE WIDENING 260 mm
- (G) PROPOSED 100mm SUBBASE GRANULAR MATERIAL, TYPE B
- (H) PROPOSED COMBINATION CONCRETE CURB & GUTTER, TYPE B-15.60
- (I) TEMPORARY PAVEMENT MARKING (2-100 m YELLOW @ 280 mm C-C SOUTH LEG; (J) ONE LINE 100 mm WHITE - NORTH LEG)
  TEMPORARY PAVEMENT MARKING (ONE LINE 100 mm WHITE - SOUTH LEG; (K) 2-100 mm @ 50 mm C-C W/ YELLOW - NORTH LEG)
  TEMPORARY PAVEMENT REMOVAL
- (L) PROPOSED P.C.C. SIDEWALK, 125 mm

REMOVAL ITEMS

CONSTRUCTION AREA

VERTICAL PANEL

DIRECTION OF TRAFFIC

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE. 83 (MILWAUKEE AVE.)
@ IL. RTE. 132 (GRAND AVE.)
SUGGESTED ADVANCED TRAFFIC CONTROL
AND STAGES OF CONSTRUCTION

SCALE:
DRAWN BY
DATE: 11/9/2009
CHECKED BY

11/9/2009
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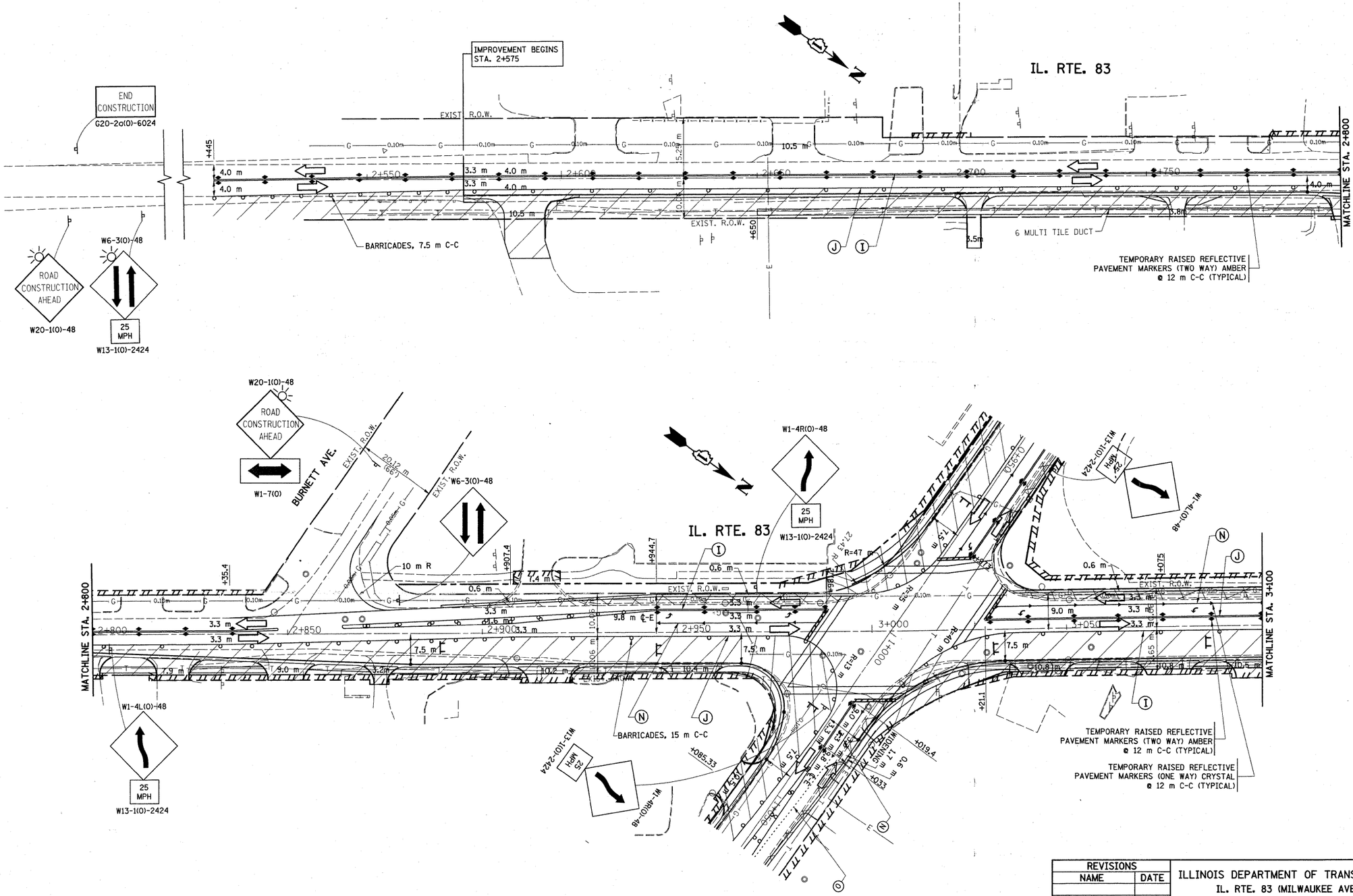
•REF-stg1c
•REF-stg1d

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	42
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL. RTE. 83 (MILWAUKEE AVE.)
IL. RTE. 132 (GRAND AVE.)
STAGE I
SUGGESTED TRAFFIC CONTROL AND STAGES OF CONSTRUCTION

SCALE: DRAWN BY
DATE: 11/9/2009 CHECKED BY

11/9/2009
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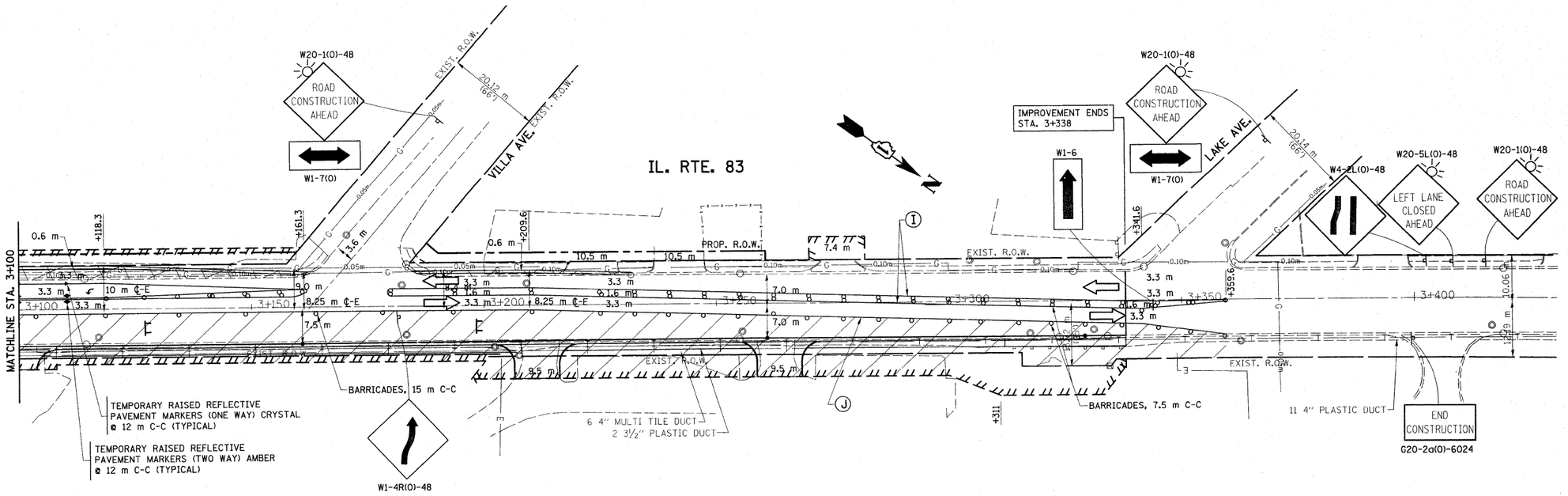
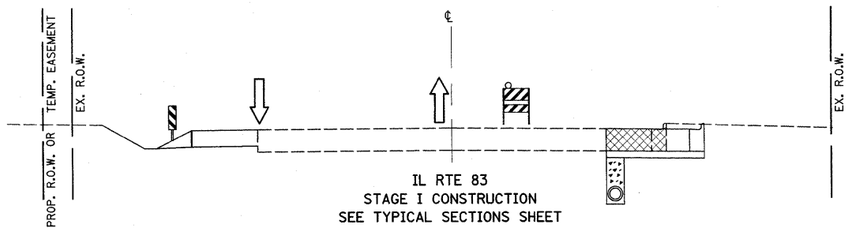
•REF-stgld

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	43
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	





IL RTE 83
STAGE I CONSTRUCTION
SEE TYPICAL SECTIONS SHEET

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL. RTE. 83 (MILWAUKEE AVE.)
IL. RTE. 132 (GRAND AVE.)
STAGE I
SUGGESTED TRAFFIC CONTROL AND STAGES OF CONSTRUCTION

SCALE: DRAWN BY
DATE: 11/9/2009 CHECKED BY

11/9/2009
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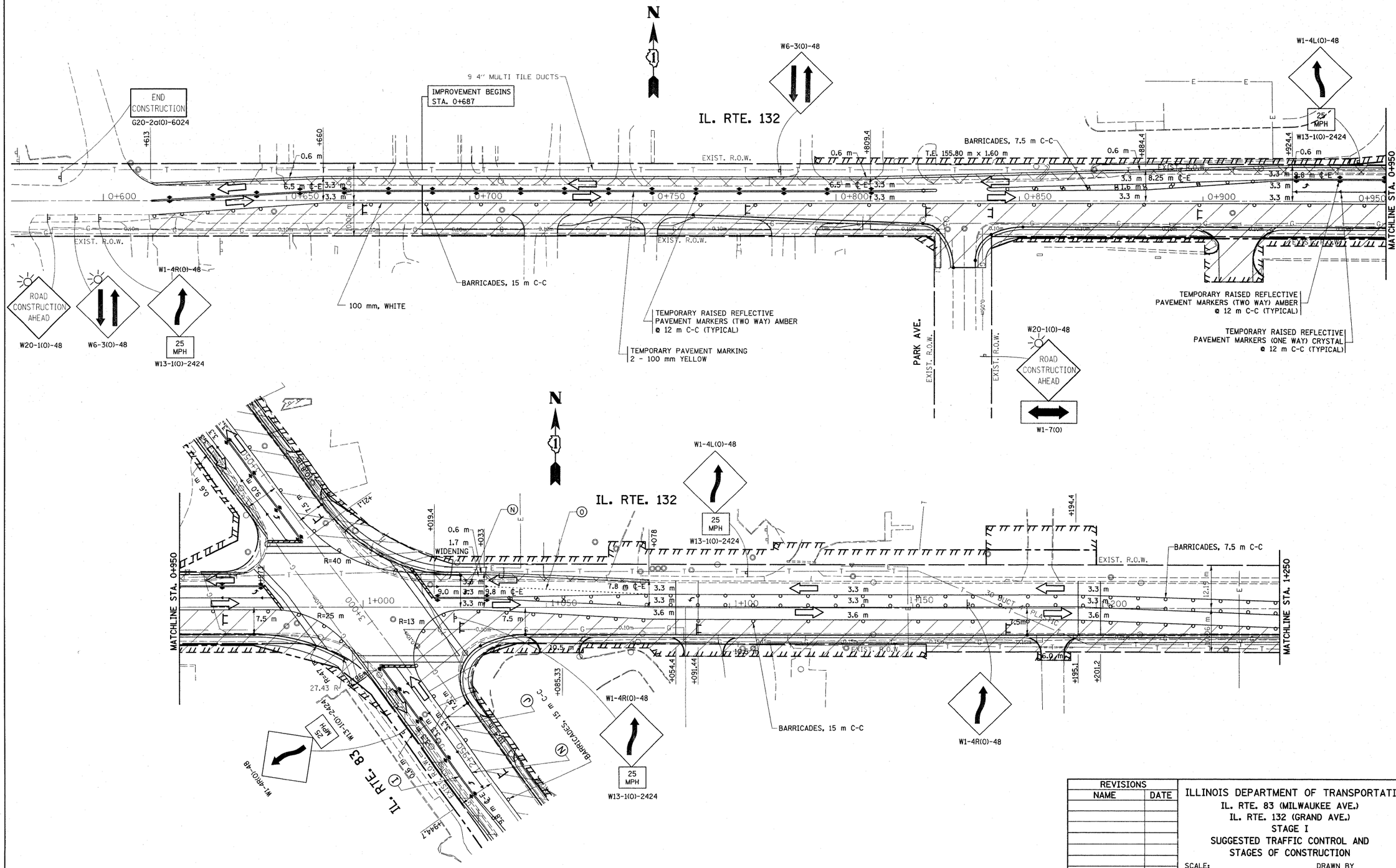
•REF-stg1a
•REF-stg1b

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	44
STA. 0+687		TO STA. 1+250		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL. RTE. 83 (MILWAUKEE AVE.)
IL. RTE. 132 (GRAND AVE.)
STAGE I
SUGGESTED TRAFFIC CONTROL AND STAGES OF CONSTRUCTION

SCALE: DRAWN BY

DATE: 11/9/2009 CHECKED BY

11/9/2009
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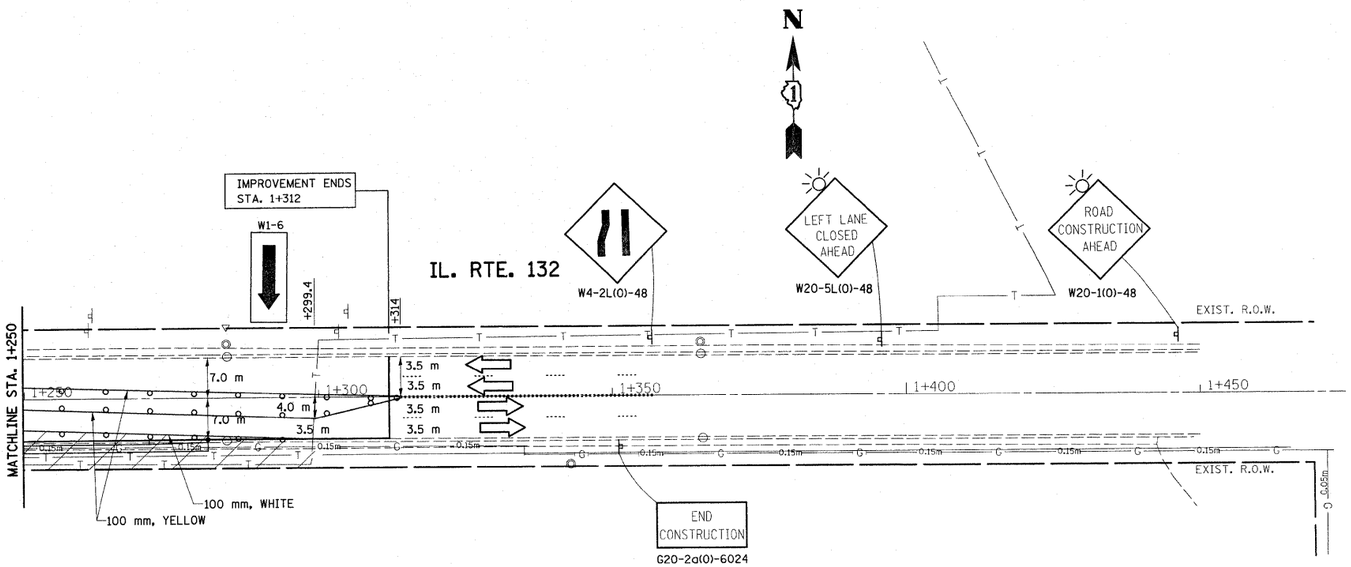
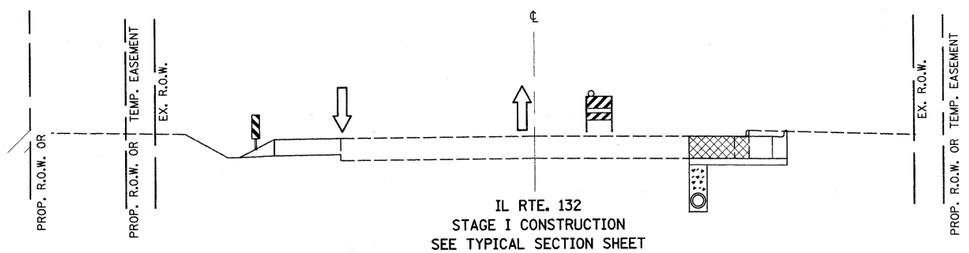
•REF-stgIc
•REF-stgId

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	45
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	





REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL. RTE. 83 (MILWAUKEE AVE.)
IL. RTE. 132 (GRAND AVE.)
STAGE I
SUGGESTED TRAFFIC CONTROL AND
STAGES OF CONSTRUCTION

SCALE: DRAWN BY

DATE: 11/9/2009 CHECKED BY

11/9/2009
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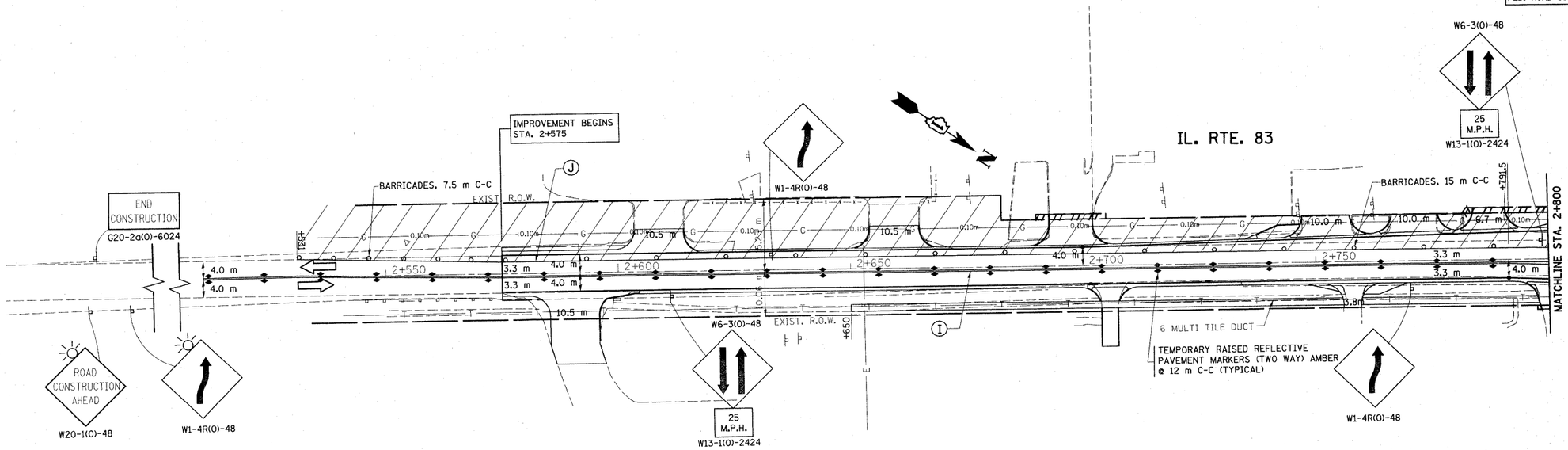
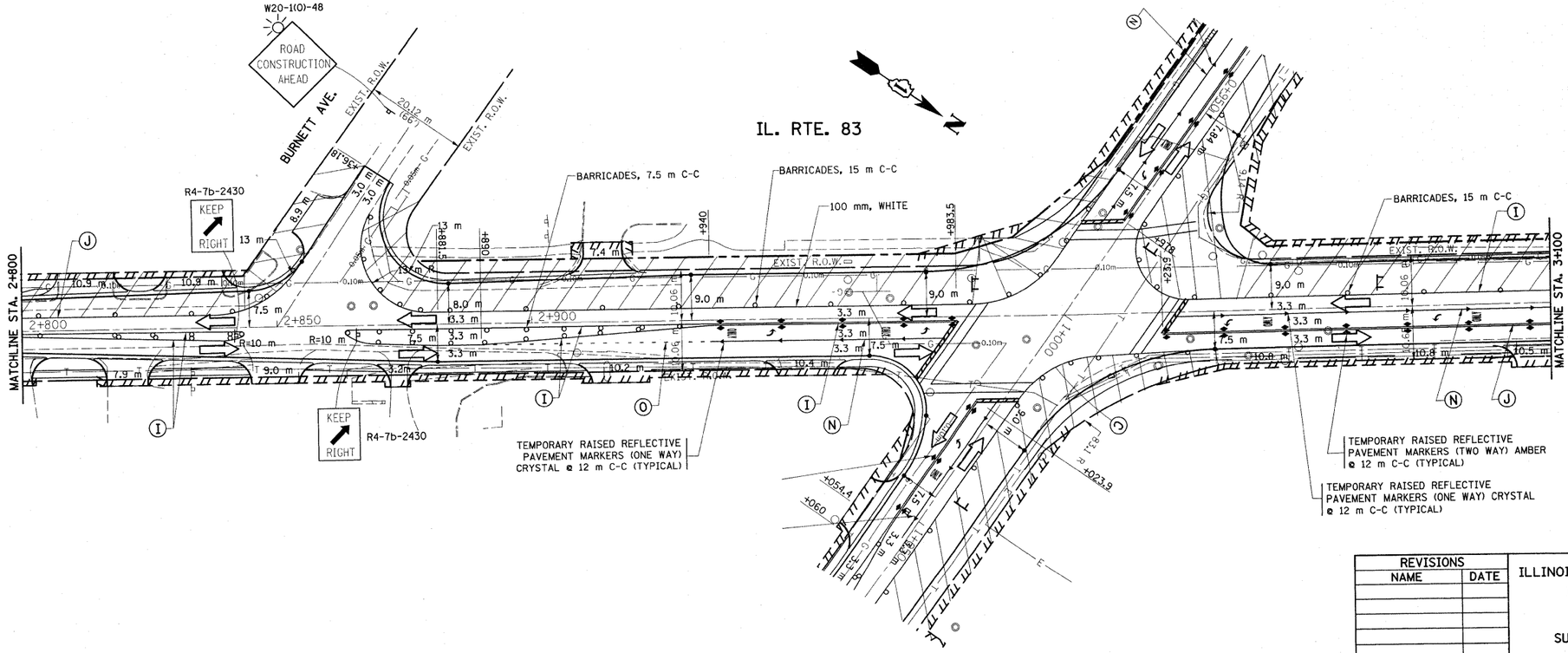
bauerdl

•REF-stg2a
•REF-stg2b

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	46
STA. 0+687		TO STA. 1+250		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	





REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL. RTE. 83 (MILWAUKEE AVE.)
IL. RTE. 132 (GRAND AVE.)
STAGE II
SUGGESTED TRAFFIC CONTROL AND STAGES OF CONSTRUCTION

SCALE: DRAWN BY
DATE: 11/10/2009 CHECKED BY

11/10/2009
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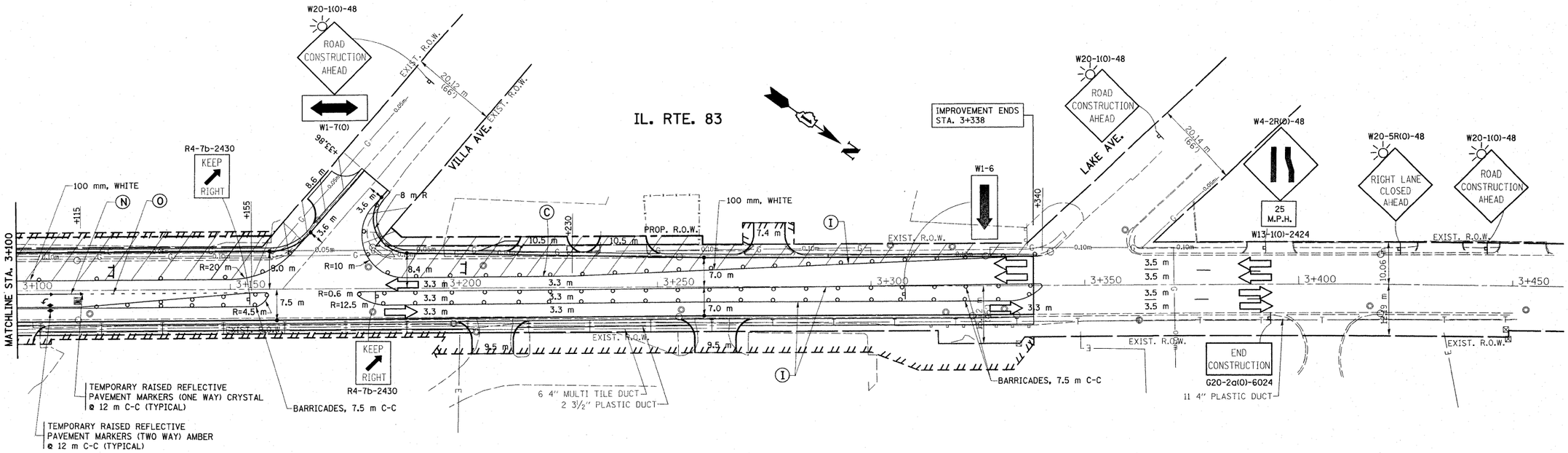
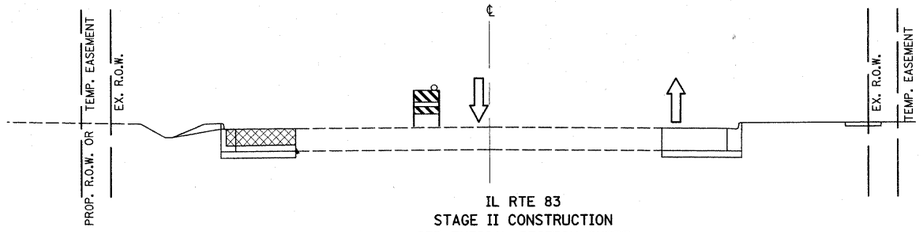
•REF-s+g2b

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	47
STA. 0+687		TO STA. 1+250		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	





IL RTE 83
STAGE II CONSTRUCTION
SEE TYPICAL SECTION SHEET

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE. 83 (MILWAUKEE AVE.)
IL. RTE. 132 (GRAND AVE.)
STAGE II
SUGGESTED TRAFFIC CONTROL AND STAGES OF CONSTRUCTION

SCALE: DRAWN BY

DATE: 11/9/2009 CHECKED BY

11/9/2009
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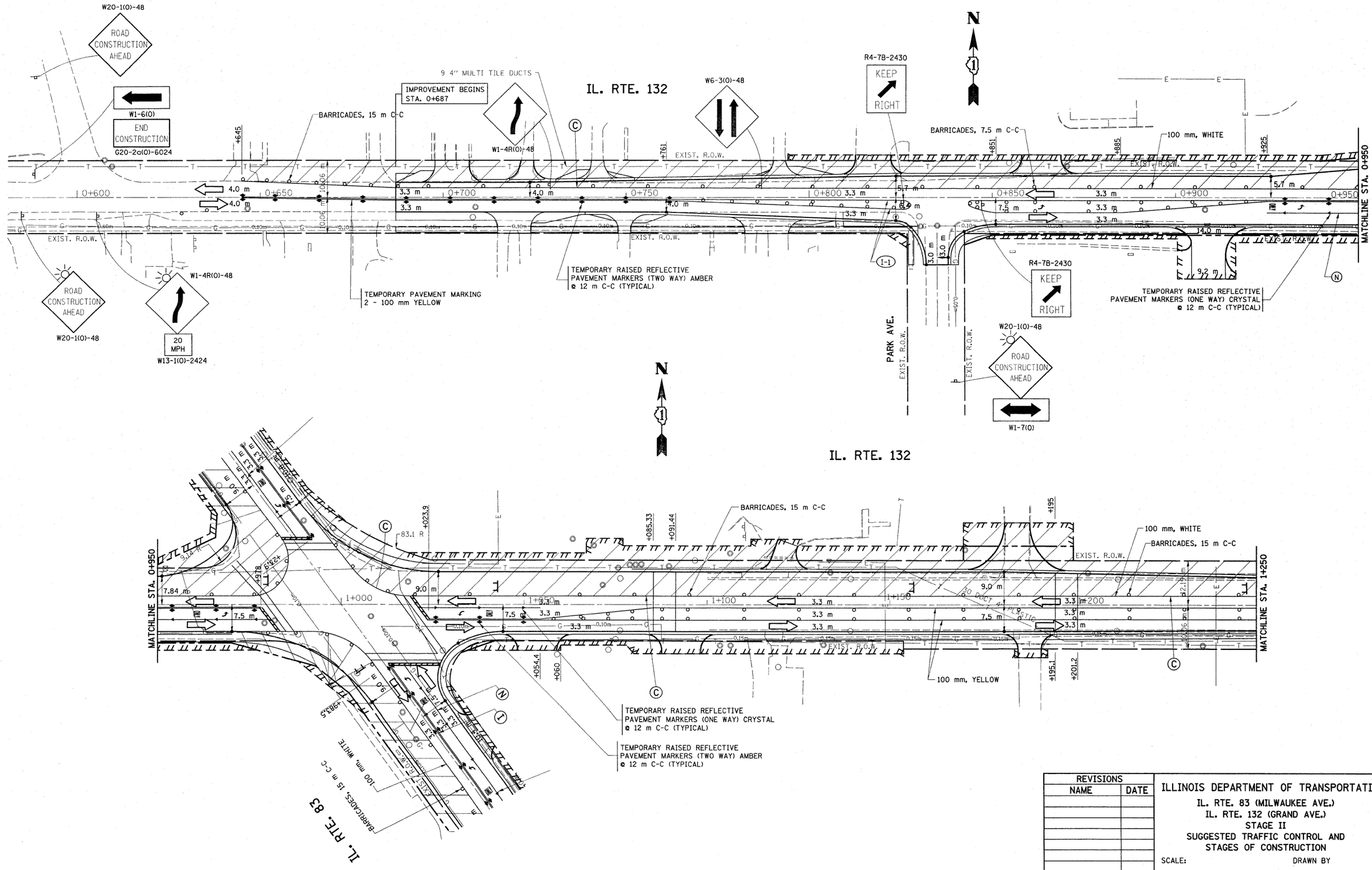
•REF-stg2D

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	48
STA. 0+687		TO STA. 1+250		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE. 83 (MILWAUKEE AVE.)
IL. RTE. 132 (GRAND AVE.)
STAGE II
SUGGESTED TRAFFIC CONTROL AND STAGES OF CONSTRUCTION

SCALE: DRAWN BY

DATE: 11/10/2009 CHECKED BY

11/10/2009
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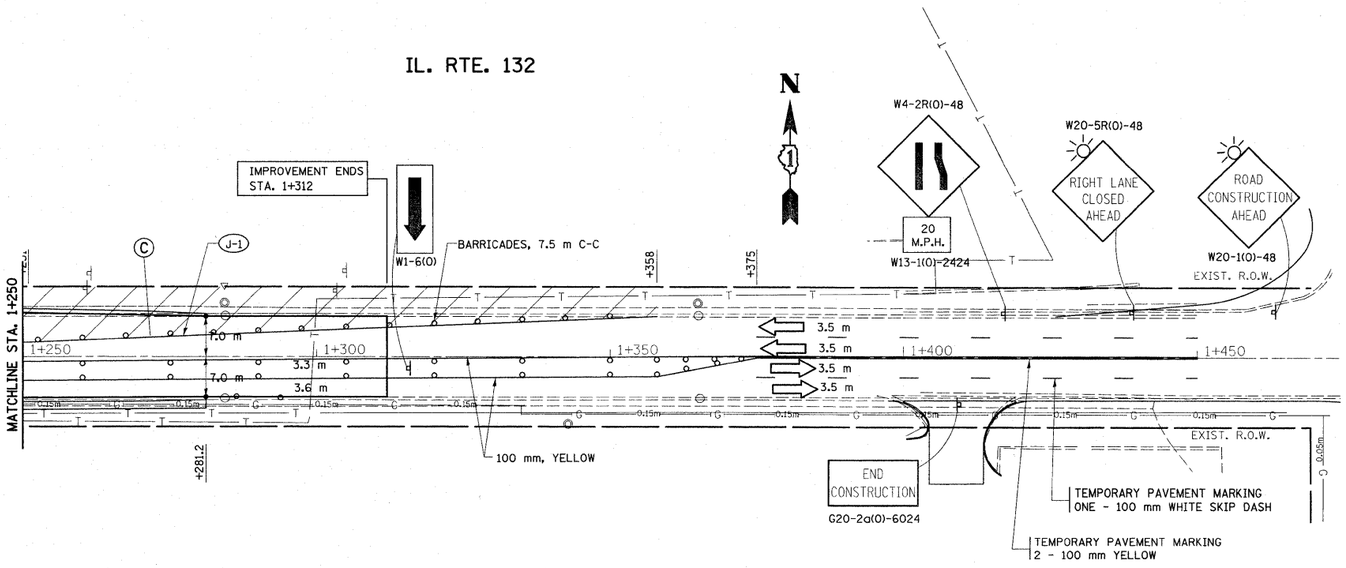
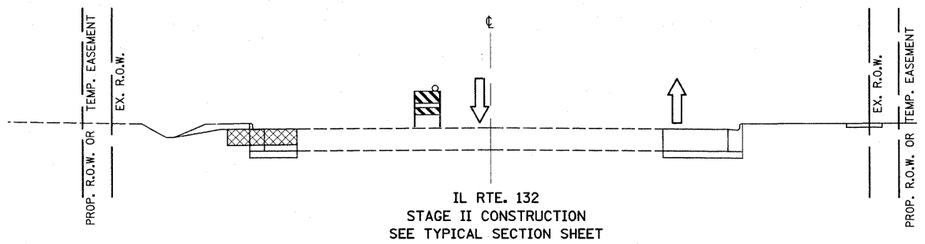
•REF-stg2d

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	49
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	





REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE. 83 (MILWAUKEE AVE.)
IL. RTE. 132 (GRAND AVE.)
STAGE II
SUGGESTED TRAFFIC CONTROL AND STAGES OF CONSTRUCTION

SCALE: DRAWN BY

DATE: 11/9/2009 CHECKED BY

11/9/2009
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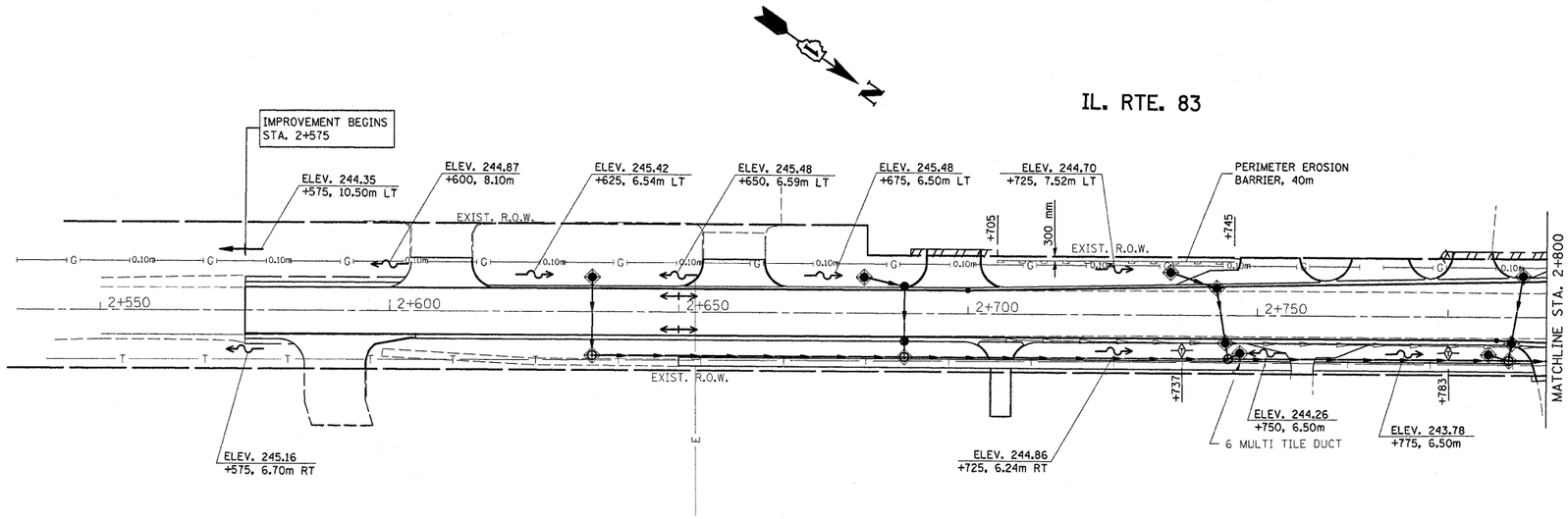
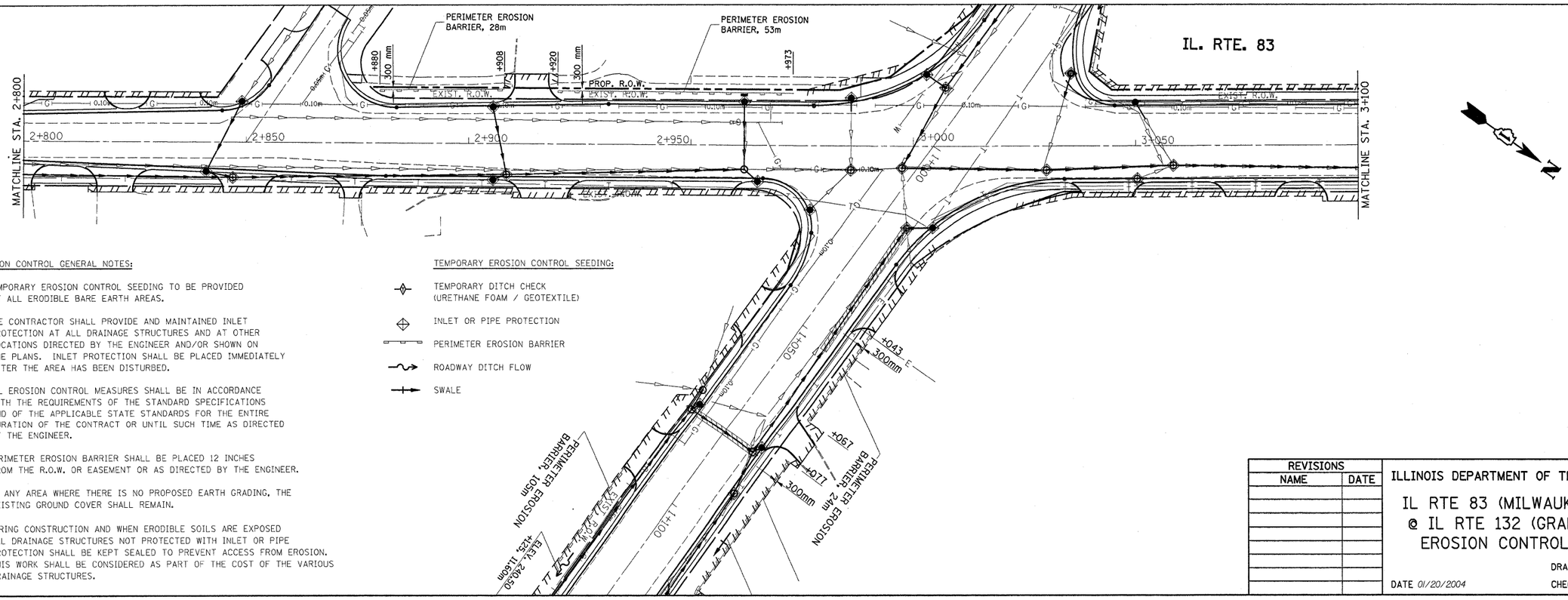
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	50
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	





EROSION CONTROL GENERAL NOTES:

1. TEMPORARY EROSION CONTROL SEEDING TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS.
2. THE CONTRACTOR SHALL PROVIDE AND MAINTAINED INLET PROTECTION AT ALL DRAINAGE STRUCTURES AND AT OTHER LOCATIONS DIRECTED BY THE ENGINEER AND/OR SHOWN ON THE PLANS. INLET PROTECTION SHALL BE PLACED IMMEDIATELY AFTER THE AREA HAS BEEN DISTURBED.
3. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND OF THE APPLICABLE STATE STANDARDS FOR THE ENTIRE DURATION OF THE CONTRACT OR UNTIL SUCH TIME AS DIRECTED BY THE ENGINEER.
4. PERIMETER EROSION BARRIER SHALL BE PLACED 12 INCHES FROM THE R.O.W. OR EASEMENT OR AS DIRECTED BY THE ENGINEER.
5. AT ANY AREA WHERE THERE IS NO PROPOSED EARTH GRADING, THE EXISTING GROUND COVER SHALL REMAIN.
6. DURING CONSTRUCTION AND WHEN ERODIBLE SOILS ARE EXPOSED ALL DRAINAGE STRUCTURES NOT PROTECTED WITH INLET OR PIPE PROTECTION SHALL BE KEPT SEALED TO PREVENT ACCESS FROM EROSION. THIS WORK SHALL BE CONSIDERED AS PART OF THE COST OF THE VARIOUS DRAINAGE STRUCTURES.

TEMPORARY EROSION CONTROL SEEDING:

- TEMPORARY DITCH CHECK (URETHANE FOAM / GEOTEXTILE)
- INLET OR PIPE PROTECTION
- PERIMETER EROSION BARRIER
- ROADWAY DITCH FLOW
- SWALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

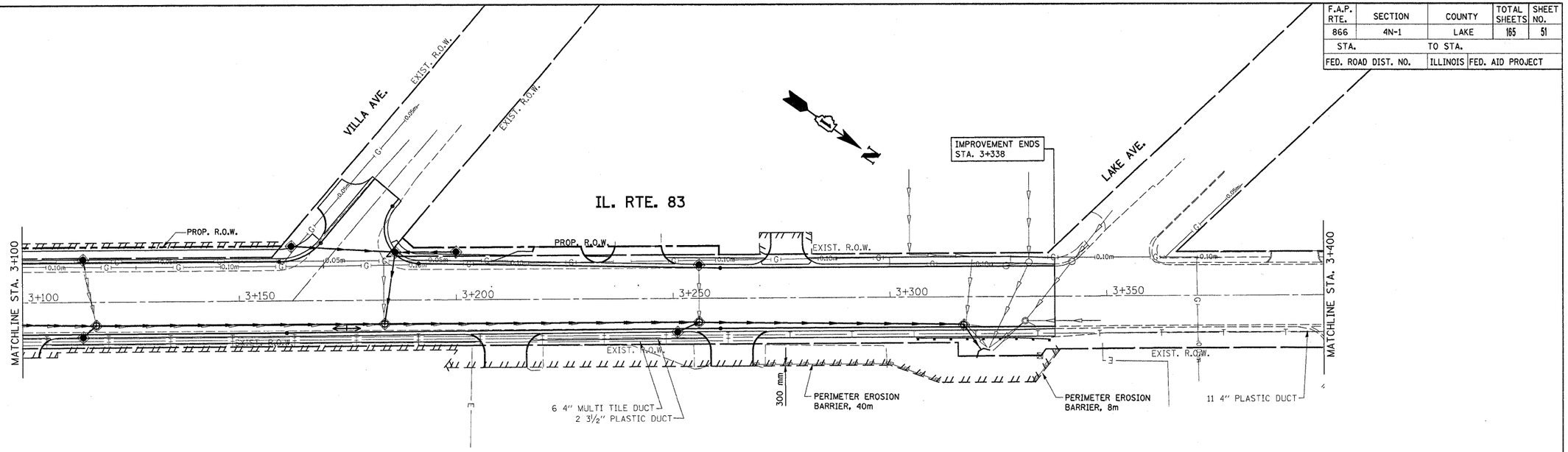
IL RTE 83 (MILWAUKEE AVE) @ IL RTE 132 (GRAND AVE) EROSION CONTROL PLAN

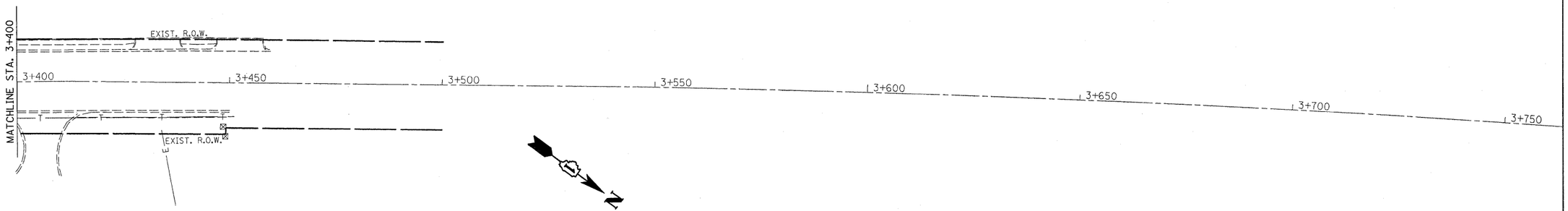
DRAWN BY

DATE 01/20/2004 CHECKED BY

01/20/2004

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	51
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	





EROSION CONTROL GENERAL NOTES:

1. TEMPORARY EROSION CONTROL SEEDING TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS.
2. THE CONTRACTOR SHALL PROVIDE AND MAINTAINED INLET PROTECTION AT ALL DRAINAGE STRUCTURES AND AT OTHER LOCATIONS DIRECTED BY THE ENGINEER AND/OR SHOWN ON THE PLANS. INLET PROTECTION SHALL BE PLACED IMMEDIATELY AFTER THE AREA HAS BEEN DISTURBED.
3. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND OF THE APPLICABLE STATE STANDARDS FOR THE ENTIRE DURATION OF THE CONTRACT OR UNTIL SUCH TIME AS DIRECTED BY THE ENGINEER.
4. PERIMETER EROSION BARRIER SHALL BE PLACED 12 INCHES FROM THE R.O.W. OR EASEMENT OR AS DIRECTED BY THE ENGINEER.
5. AT ANY AREA WHERE THERE IS NO PROPOSED EARTH GRADING, THE EXISTING GROUND COVER SHALL REMAIN.
6. DURING CONSTRUCTION AND WHEN ERODIBLE SOILS ARE EXPOSED ALL DRAINAGE STRUCTURES NOT PROTECTED WITH INLET OR PIPE PROTECTION SHALL BE KEPT SEALED TO PREVENT ACCESS FROM EROSION. THIS WORK SHALL BE CONSIDERED AS PART OF THE COST OF THE VARIOUS DRAINAGE STRUCTURES.

TEMPORARY EROSION CONTROL SEEDING:

- TEMPORARY DITCH CHECK (URETHANE FOAM / GEOTEXTILE)
- INLET OR PIPE PROTECTION
- PERIMETER EROSION BARRIER
- ROADWAY DITCH FLOW
- SWALE

REVISIONS	
NAME	DATE

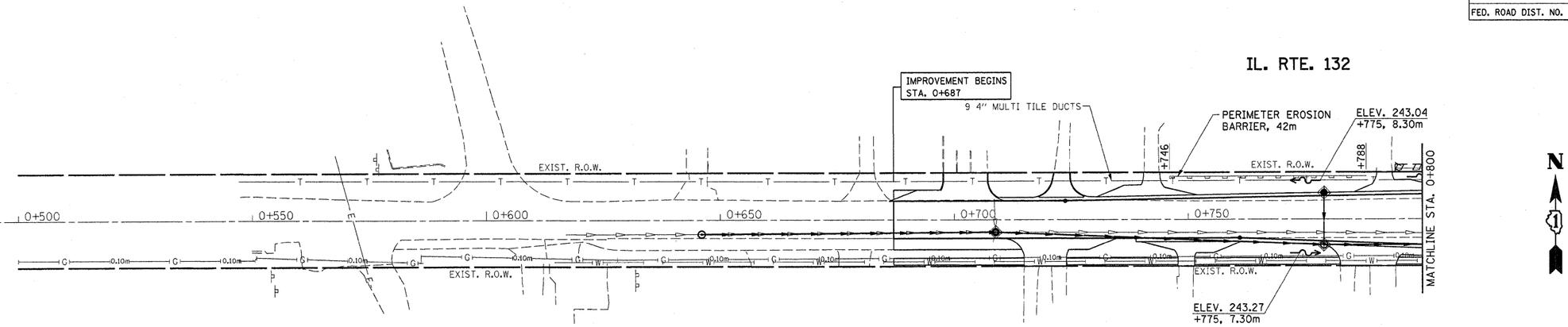
ILLINOIS DEPARTMENT OF TRANSPORTATION

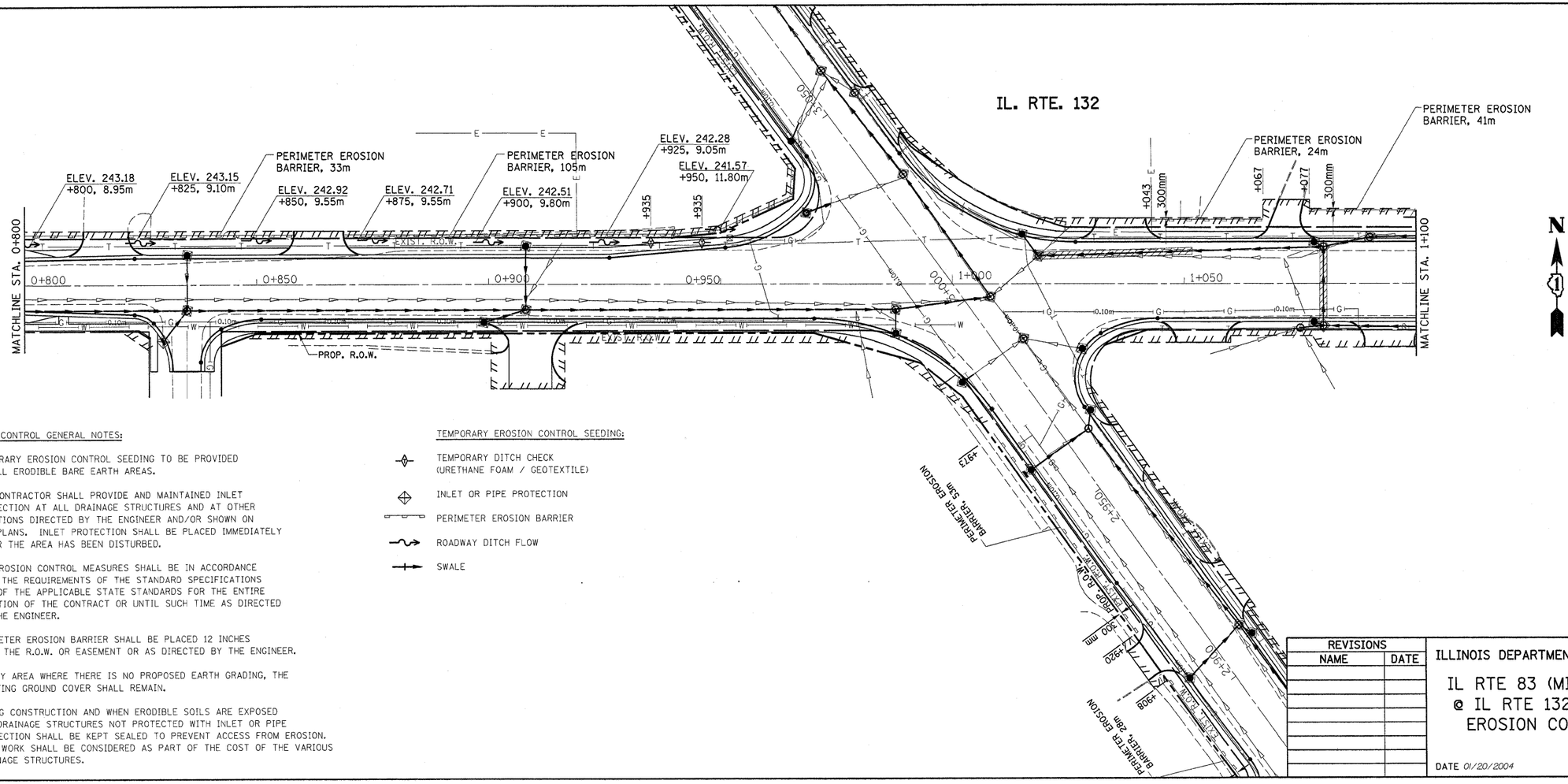
IL RTE 83 (MILWAUKEE AVE) @ IL RTE 132 (GRAND AVE) EROSION CONTROL PLAN

DRAWN BY

DATE 01/20/2004 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	52
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	





EROSION CONTROL GENERAL NOTES:

1. TEMPORARY EROSION CONTROL SEEDING TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS.
2. THE CONTRACTOR SHALL PROVIDE AND MAINTAINED INLET PROTECTION AT ALL DRAINAGE STRUCTURES AND AT OTHER LOCATIONS DIRECTED BY THE ENGINEER AND/OR SHOWN ON THE PLANS. INLET PROTECTION SHALL BE PLACED IMMEDIATELY AFTER THE AREA HAS BEEN DISTURBED.
3. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND OF THE APPLICABLE STATE STANDARDS FOR THE ENTIRE DURATION OF THE CONTRACT OR UNTIL SUCH TIME AS DIRECTED BY THE ENGINEER.
4. PERIMETER EROSION BARRIER SHALL BE PLACED 12 INCHES FROM THE R.O.W. OR EASEMENT OR AS DIRECTED BY THE ENGINEER.
5. AT ANY AREA WHERE THERE IS NO PROPOSED EARTH GRADING, THE EXISTING GROUND COVER SHALL REMAIN.
6. DURING CONSTRUCTION AND WHEN ERODIBLE SOILS ARE EXPOSED ALL DRAINAGE STRUCTURES NOT PROTECTED WITH INLET OR PIPE PROTECTION SHALL BE KEPT SEALED TO PREVENT ACCESS FROM EROSION. THIS WORK SHALL BE CONSIDERED AS PART OF THE COST OF THE VARIOUS DRAINAGE STRUCTURES.

TEMPORARY EROSION CONTROL SEEDING:

- TEMPORARY DITCH CHECK (URETHANE FOAM / GEOTEXTILE)
- INLET OR PIPE PROTECTION
- PERIMETER EROSION BARRIER
- ROADWAY DITCH FLOW
- SWALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

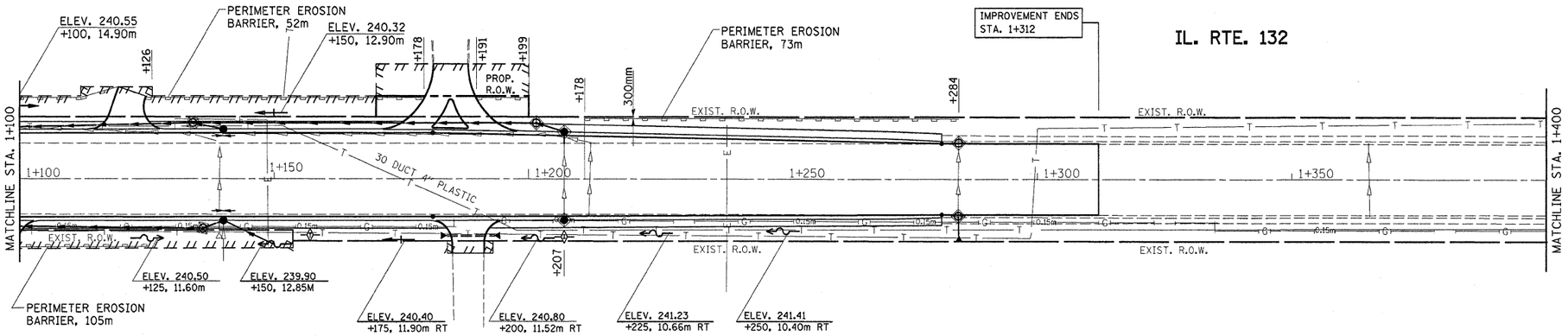
IL RTE 83 (MILWAUKEE AVE) @ IL RTE 132 (GRAND AVE) EROSION CONTROL PLAN

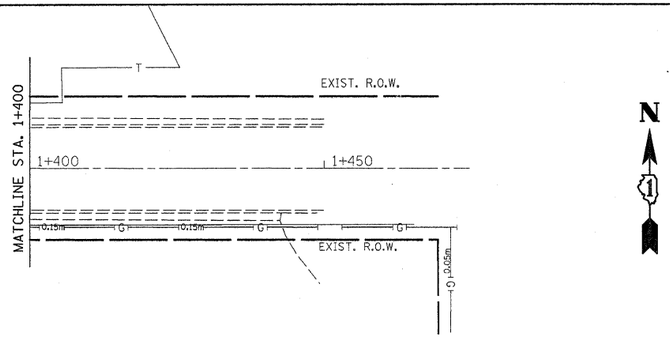
DRAWN BY

DATE 01/20/2004

CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	53
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	





EROSION CONTROL GENERAL NOTES:

1. TEMPORARY EROSION CONTROL SEEDING TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS.
2. THE CONTRACTOR SHALL PROVIDE AND MAINTAINED INLET PROTECTION AT ALL DRAINAGE STRUCTURES AND AT OTHER LOCATIONS DIRECTED BY THE ENGINEER AND/OR SHOWN ON THE PLANS. INLET PROTECTION SHALL BE PLACED IMMEDIATELY AFTER THE AREA HAS BEEN DISTURBED.
3. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND OF THE APPLICABLE STATE STANDARDS FOR THE ENTIRE DURATION OF THE CONTRACT OR UNTIL SUCH TIME AS DIRECTED BY THE ENGINEER.
4. PERIMETER EROSION BARRIER SHALL BE PLACED 12 INCHES FROM THE R.O.W. OR EASEMENT OR AS DIRECTED BY THE ENGINEER.
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TEMPORARY EROSION CONTROL SEEDING:

- TEMPORARY DITCH CHECK (URETHANE FOAM / GEOTEXTILE)
- INLET OR PIPE PROTECTION
- PERIMETER EROSION BARRIER
- ROADWAY DITCH FLOW
- SWALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL RTE 83 (MILWAUKEE AVE) @ IL RTE 132 (GRAND AVE) EROSION CONTROL PLAN

DRAWN BY

DATE 01/20/2004 CHECKED BY

01/20/2004

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	54
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

1. CB, T-C, 600mm DIA W/T-8 GRATE
STA. 2+635, 6m LT
T.G. 245.51
INV. 244.65 (NE)

2. MH, T-A, 1.20m DIA W/T-1F CL
STA. 2+635, 7.50m RT.
T.G. 246.13
INV. 241.67 (NW)
INV. 244.52 (SW)

3. MH, T-A, 1.20m DIA W/T-1F CL
STA. 2+689, 7.50m RT
T.G. 245.94
INV. 241.12 (SE)
INV. 241.12 (NW)
INV. 244.19 (SW)

3A. CB, T-A, 1.20m DIA W/T-24 F&G
STA. 2+689, 4.73m RT
T.G. 245.47
INV. 244.30 (SW)
INV. 244.20 (NE)

4. CB, T-C, 600mm DIA W/T-8 GRATE
STA. 2+682, 6.25 m LT
T.G. 245.44
INV. 244.58 (NW)

5. CB, T-A, 120m DIA W/T-24 F&G
STA. 2+689, 4.73m LT
T.G. 245.43
INV. 244.40 (NE)
INV. 244.50 (SE)

6. CB, T-C, 600mm DIA W/T-8 GRATE
STA. 2+735, 7.40m LT
T.G. 244.46
INV. 243.87 (NW)

7. CB, T-A, 1.20m DIA W/T-24 F&G
STA. 2+743, 4.73m LT
T.G. 244.53
INV. 243.66 (NE)
INV.243.76 (SE)

8. MH, T-A, 1.20m DIA W/T-1F CL
STA. 2+745, 7.50m RT
T.G. 244.53
INV. 240.65 (NW)
INV. 240.72 (SE)
INV. 243.45 (NW)
INV. 243.45 (SW)

8A. CB, T-A, 1.20m DIA W/T-24 F&G
STA. 2+744.50, 4.73m RT
T.G. 244.50
INV. 243.57 (SW)
INV. 243.47 (NE)

9. CB, T-C, 600mm DIA W/T-8 GRATE
STA. 2+747, 6.50m RT
T.G. 244.33
INV. 243.47 (SE)

10. CB, T-C, 600 mm DIA. W/T-8 GRATE
STA. 2+790, 6.50m RT
T.G. 243.23
INV. 242.37 (NW)

11. CMH, T-A, 1.20m DIA W/T-1F CL
STA. 2+793.50, 7.50m RT
T.G. 243.093
INV. 242.34 (SE)
INV. 241.91 (SW)
INV. 240.43 (SE)
INV. 240.43 (NW)

12. CB, T-A, 1.20m DIA. W/T-24 F&G
STA. 2+796, 7.05m LT
T.G. 243.51
INV. 242.12 (NE)

12A. CB, T-A, 1.20m DIA W/T-24 F&G
STA. 2+794, 4.5m RT
T.G. 243.54
INV. 241.92 (NE)
INV. 242.05 (SW)

13. CB, T-A, 1.20m DIA. W/T-24 F&G
STA 2+849, 9.12m LT
T.G. 242.93
INV. 241.44 (E)

14. CB, T-A, 1.20m DIA,. W/T-24 F&G
STA. 2+841, 6.66m RT
T.G. 243.05
INV. 241.28 (W)
INV. 241.18 (NW)

15. MH, T-A, 1.20m DIA W/T-IF CL
STA. 2+847, 8.00m RT
T.G. 242.96
INV. 241.13 (S)
INV. 240.13 (SE)
INV. 240.06 (NW)

15A. MH, T-A, 1.20m DIA W/T-IF CL
STA. 2+865, 5.68m RT
T.G. 242.86
INV. 239.98 (SE)
INV. 239.98 (NW)

16. CB, T-A, 1.20m DIA W/T-24 F&G
STA. 2+905.50, 9.03m LT
T.G. 242.48
INV. 241.10 (NE)

17. CB, T-A, 1.20m DIA W/T-24 F&G
STA. 2+905.50, 8.22m RT
T.G. 242.49
INV. 241.11 (W)

18. MH, T-A, 1.20m DIA W/T-1F CL
STA. 2+908.80, 5.26m RT
T.G. 242.52
INV. 241.09 (E)
INV. 240.95 (SW)
INV. 239.76 (NW)
INV. 239.76 (SE)

19. EXIST. MH, W/T-1F CL
STA. 2+962, 5.50m RT
T.G. 242.084
INV. 239.50 (SE)
INV. 239.10 (NW) EXIST.
INV. 240.49 (SW)
INV. 240.46 (N)

20. CB, T-A, 1.20m DIA W/T-24 F&G
STA. 2+965, 8.22m RT
T.G. 242.02
INV. 240.48 (S)

21. CB, T-A, 1.20m DIA W/T-24 F&G
STA. 2+962, 9.72m LT
T.G. 242.01
INV. 240.63 (NE)

22. CB, T-A, 1.20m DIA W/T-24 F&G
STA. 2+986, 10.72m LT
T.G. 241.80
INV. 240.26 (NE) CONNECT
TO EXISTING SEWER

23. MH, T-A, 1.50m DIA W/T-1F CL
STA. 2+997.50, 5.00m RT
T.G. 241.81
INV. 238.73 (NW)
INV. 238.91 (SE) EXIST.

24. MH, T-A, 1.50m DIA W/T-1F CL
STA. 3+030, 5.50m RT
T.G. 241.60
INV. 238.62 (SE)
INV. 238.62 (NW)

25. MH, T-A, 1.50m DIA W/T-1F CL
STA. 3+058.50, 4.50m RT
T.G. 241.62
INV. 238.53 (NW)
INV. 238.53 (SE)

26. CB, T-A, 1.20m DIA W/T-24 F&G
STA. 3+050, 9.72m LT
T.G. 241.51
INV. 239.97 (NE) CONNECT
TO EXIST SEWER

27. CB, T-A, 1.20m DIA W/T-24 F&G
STA. 3+114, 7.2m LT
T.G. 242.03
INV.240.49 (NE) CONNECT
TO EXISTING SEWER

28. CB, T-A, 1.20m DIA W/T-24 F&G
STA. 3+114, 8.22m RT
T.G. 242.062
INV. 240.52 (W)

29. MH, T-A, 1.50m DIA W/T-1F CL
STA 3+117, 5.50m RT
T.G. 242.15
INV. 238.33 (SE)
INV. 238.33 (NW)
INV. 240.50 (E)
INV. EXIST. (SW)

30. CB, T-A, 1.20m DIA W/T-1F OL
STA. 3+162, 12.50m LT
T.G. 242.88
INV. 241.99 (NW)

31. MH, T-A, 1.50m DIA W/ T-1F CL
STA. 3+183.50, 5.50m RT
T.G. 242.84
INV. 240.97 (SW)
INV. 238.23 (SE)
INV. 238.03 (NW)

32. CB, T-A, 1.20m DIA W/T-24 F&G
STA. 3+186, 11.00m LT
T.G. 242.76
INV. 241.76 (SE)
INV. 241.76 (NW)
INV. 241.12 (NE)

33. CB, T-C, 600mm W/T-8 GRATE
STA. 3+200, 11m LT
T.G. 242.86
INV. 242.28 (SE)

34. CB, T-A, 1.20m DIA W/T-24 F&G
STA. 3+251, 7.82m RT
T.G. 242.04
INV. 240.50

35. MH, T-A, 1.50m DIA W/T-1F CL
STA. 3+256, 5.50m RT
T.G. 242.00
INV. 240.46 (E)
INV. 237.98 (SE)
INV. 237.98 (NW)
INV. EXIST. (SW)

36. CB, T-A, 1.20m DIA W/T-24 F&G
STA. 3+256, 7.72m LT
T.G. 241.97
INV. 240.43 (EXIST) (NE)

37. MH, T-A, 1.50m DIA W/T-1F CL
STA. 3+317.50, 6.50m RT
T.G. 241.29
INV. 237.77 (SE)
INV. 237.77 (N)

38. PROP. HEADWALL (SEE DETAIL)
STA. 3+320±, 12.10m RT
INV. 237.75

1. 300mm S.S. CLASS a, T-1, 12.80m
T.B.. 6.95 cu.m.
CLASS D PATCH, T-2, 15.00sq.m

2. 300mm S.S. CLASS A, T-3, 52.80m
T.B. 184.45 cu. m

3. 300mm S.S. CLASS A, T-1, 8.26m
T.B. 50.47 cu. m
CLASS D PATCH, T-2, 16.00 sq. m

3A. 300mm S.S. CLASS A, T-2, 1.57m
T.B. 1.20 cu. m

4. 300mm S.S. CLASS A, T-1, 6.60m
T.B. 3.00 cu. m

5. 300mm S.S. CLASS A, T-3, 54.80m
T.B. 181 cu. m

6. STORM SEWERS, (WMR) T-1, 300mm, 7.60m
T.B. 1.80 cu. m

7. 300mm S.S. CLASS A, T-1, 8.30m
T.B. 3.0 cu. m
CLASS D PATCH, T-3, 20.00 sq. m

7A. 300mm S.S. CLASS A, T-1, 1.10m
T.B.

7B. 300mm S.S. CLASS A, T-1, 1.3m
T.B. 1.0 cu. m

8. 375mm S.S. CLASS A, T-2, 47.30m
T.B. 121.56 cu. m

9. 300mm S.S. CLASS, T-1, 2.60m
T.B.

10. STORM SEWERS, (WMR) T-1, 300mm, 10.30m
T.B. 7.50 cu. m
CLASS D PATCH, T-3, 20.00 sq. m

10A. 300mm S.S. CLASS A, T-1, 1.80m
T.B. 1.00 cu. m

11. STORM SEWERS, (WMR), T-1, 300mm, 17.30m
T.B. 15.0 cu. m
CLASS D PATCH, T-3, 30 sq. m

12. 375mm S.S. CLASS A, T-2, 52.30m
T.B. 63.00 cu. m

13. 300mm S.S. CLASS A, T-1, 4.80m
T.B. 6.00 cu. m

14. 450mm S.S. CLASS A, T-1, 17.20m
T.B. 16.30 cu. m

14A. 450mm S.S. CLASS A, T-1, 39.80m
T.B. 38.28 cu. m

15. STORM SEWERS, (WMR) T-1, 300mm, 13.80m
T.B. 10.00 cu. m
CLASS D PATCH, T-3, 30.0 sq. m

16. 300mm S.S. CLASS A, T-1, 2.80m
T.B. 1.50 cu. m

17. 450mm, S.S. CLASS A, T-2, 52.00m
T.B. 104.12 cu. m

18. 300mm S.S. CLASS A, T-1, 2.80m
T.B. 1.50 cu. m
CLASS D PATCH, T-1, 3.0 sq. m

19. STORM SEWERS, (WMR), T-1, 300mm, 14.02m
T.B. 10.00 cu. m
CLASS D PATCH, T-3, 27 sq. m

20. 300mm S.S. CLASS A, T-1, 1.00m
T.B. 1.00 cu. m

21. 300mm S.S. CLASS A, T-1, 2.60m
T.B. 2.10 cu. m

22. 750mm S.S. CLASS A, T-2, 31.50m
T.B. 87.00 cu. m
CLASS D PATCH, T-3, 32.0 sq. m

23. 750mm S.S. CLASS A, T-2, 27.50m
T.B. 74.00 cu. m

24. 300mm S.S. CLASS A, T-1, 4.00m
T.B. 1.60 cu. m

25. 750 mm S.S. CLASS A, T-2, 57.00m
T.B. 123.00 cu. m

26. 300mm S.S. CLASS A, T-1, 2.00m
T.B. 2.00 cu. m

27. 300mm S.S. CLASS A, T-1, 2.80m
T.B. 1.50 cu. m

28. 750mm S.S. CLASS A, T-2, 65.00m
T.B. 315.00 cu. m

29. STORM SEWERS, (WMR) T-1, 300mm, 22.80m
TB 81.00 cu. m
CLASS D PATCH, T-3, 30.00 sq. m

30. STORM SEWERS, (WMR), T-1, 300mm, 15.00m
T.B. 16.00 cu.m
CLASS D PATCH, T-3, 30.00 SQm

31. 300mm S.S. CLASS A, T-2, 12.80m
T.B. 4.50 cu. m

32. 900mm S.S. CLASS A, T-3 71.00m
T.B. 570 cu. m

33. 300mm S.S. CLASS A, T-1, 4.20m
T.B. 3.90 cu. m

34. 900mm, S.S. CLASS A, T-2, 60.00m
T.B. 396.00 cu. m

35. 900mm S.S. CLASS A, T-2, 7.00m
T.B. 48.00 cu. m

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE. 83 (MILWAUKEE AVE.) @ IL. RTE. 132 (GRAND AVE.) DRAINAGE STRUCTURE TABLE

DRAWN BY

DATE CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	55
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

△101 MH, T-A, 1.2m DIA W/T-IF CL
STA. 0+709, 5m RT
T.G. 243.58
INV. 241.05 (SE)
INV. 241.05 (NW)

△102 MH, T-A, 1.20m DIA W/T-IF CL
STA. 0+779, 5.5m RT
T.G. 243.57
INV. 240.80 (E)
INV. 240.80 (NW)
INV. 241.82 (N)

△103 CB, T-A, 1.2m DIA W/T-24 F&G
STA. 0+779, 5.66m LT
T.G. 243.46
INV 241.92 (S)

△104 INLET, T-A, 600mm DIA W/T-24 F&G
DTS. 0+830, 12m RT
T.G. 243.20
INV. 242.48 (E)

FLAT TOP △104A CB, T-A, 1.2m DIA W/T-24 F&G
STA. 0+840, 12m RT
T.G. 243.184
INV. 242.364 (W)
INV. 242.264 (N)

△105 CB, T-A, 1.20m DIA W/T-24 F&G
STA. 0+840, 6.42m LT
T.G. 243.292
INV. 241.775 (S)

△105A MH, T-A, 1.5m DIA W/T-IF CL
STA. 0+840, 5.5m LT
T.G. 243.324
INV. 240.589 (S)
INV. 240.539 (E)
INV. 241.757 (N)

△106 MH, T-A, 1.5m DIA W/T-IF CL
STA. 0+840, 5.5m RT
T.G. 243.296
INV. 242.183 (S)
INV. 240.66 (W)
INV. 240.61 (N)

△107 CB, T-A, 1.20mm DIA W/T-24 F&G
STA. 0+899, 8.22m RT
T.G. 242.78
INV. 241.863 (E)

△108 CB, T-A, 1.20m DIA W/T-24 F&G
STA. 0+920, 6.40m LT
T.G. 242.516
INV. 240.999 (S)

△108A MH, T-A, 1.50m DIA W/T-IF CL
STA. 0+920, 4.00m LT
T.G. 243.536
INV. 240.981 (N)
INV. 239.815 (W)
INV. 239.765 (E)
INV. 241.356 (S)

FLAT TOP △109 CB, T-A, 1.20m DIA W/T-24 F&G
STA. 0+920, 8.205m RT
T.G. 242.480
INV. 241.510 (N)
INV. 241.661 (W)

△110 MH, T-A, 1.5m DIA W/T-IF CL
STA. 0+988, 4.05m LT
T.G. 241.792
INV. 239.083 (NE)
INV. 239.133 (W)
INV. 240.784 (S)

△111 CB, T-A, 1.2m DIA W/T-24 F&G
STA. 0+988, 10.72m RT
T.G. 241.66
INV. 240.603 (N)

△112 MH, T-A, 1.5m DIA W/T-IF CL
STA. 1+008.5, 3.0m RT
T.G. 241.81
INV. 239.16 (SW)
INV 238.73 (NW)
INV. EXIST (NE)
INV. EXIST (SE)

△113 CB, T-A, 1.2m DIA W/T-24 F&G
STA. 1+015, 10.72 LT
T.G. 241.64
INV. 240.10 (SE)

△114 MH, T-A, 1.50m DIA W/T-IF CL
STA. 1+018.5, 6m LT
T.G. 241.72
INV. 240.05 (NW)
INV. 239.02 (NE)
INV. 239.02 (SW) EXIST

△115 CB, T-A, 1.20m DIA W/T-24 F&G
STA. 1+028, 14m RT
T.G. 241.54
INV. 240.00 (NW)
CONNECT TO EXIST SEWER

△116 CB, T-A, 1.20m DIA W/T-24 F&G
STA. 1+080, 8.22m RT
T.G. 241.31
INV. 239.77 (SW)
INV. 239.30 (N)

△117 CB, T-A, 1.20m DIA W/T-1F CL
STA. 1+075.50, 9.75m RT
T.G. 241.480
INV. 239.90 (SE)

△118 CB, T-A, 1.20m DIA W/T-24 F&G
STA. 1+078, 9m LT
T.G. 241.28
INV. 239.75 (SE)

△119 MH, T-A, 1.50m DIA W/T-IF CL
STA. 1+080, 8m LT
T.G. 241.28
INV. 239.73 (NW)
INV. 239.10 (SW)
INV. 239.10 (NE)
INV. 239.16 (SE)

△120 MH, T-A, 1.50m DIA W/T-IF CL
STA. 1+090, 10m LT
T.G. 241.23
INV. 239.14 (SW)
INV. 239.29 (NE)

△121 MH, T-A, 1.20m DIA W/T-IF CL
STA. 1+134, 11m LT
T.G. 240.98
INV. 239.49 (E)
INV. 239.49 (W)
INV. 239.52 (SE)

FLAT TOP △122 CB, T-A, 1.20m DIA W/T-24 F&G
STA. 1+140.30, 9.72m LT
T.G. 240.89
INV. 239.56 (NW)
INV. 239.58 (S)

FLAT TOP △124 CB, T-A, 1.20m DIA W/T-24 F&G
STA. 1+140.30, 8.22m RT
T.G. 240.92
INV. 239.65 (SE)
INV. 239.62 (N)

△125 PRC FL-END SEC, 300 mm
STA. 1+150, 13m RT
T.G.
INV. 239.76 (NW)

△126 MH, T-A, 1.20m DIA W/T-IF CL
STA. 1+201.5, 11m LT
T.G. 241.37
INV. 239.89 (W)
INV. 239.93 (SE)

△127 CB, T-A, 1.20m DIA W/T-24 F&G
STA.. 1+207, 9.26m LT
T.G. 241.25
INV. 239.98 (NW)
INV. 240.08 (S)
MAKE CONNECTION TO EXIST. SEWER

△128 CB, T-A, 1.20m DIA W/T-24 F&G
STA. 1+207, 8.10m RT
T.G. 241.28
INV. 240.14 (N) EXIST.
MAKE CONNECTION TO EXIST SEWER.

△129 PRC FL-END SEC, 300mm
STA. 1+285, 11.50m RT
INV. TO BE DETERMINE IN
THE FIELD BY THE ENG.

(101) 375mm S.S. CLASS A,T-2, 62.00m
T.B. 112.06 cu. m

(102) 450mm S.S. CLASS, T-2, 69.00m
T.B. 138.44 cu. m

(102A) 300mm S.S. CLASS A, T-1, 10.00m
T.B. 8.98 cu. m
CLASS D PATCH, T-3, 18.00 sq. m

(103) 450 mm, S.S. CLASS A, T-2, 59.65m
T.B. 113.08 cu. m

(103A) 300mm S.S. CLASS A, T-1, 9.60m
T.B. 3.00 cu. m
CLASS D PATCH, T-2, 7.58 sq. m

(103B) STORM SEWERS, (WMR) T-1, 300mm, 5.40m
T.B. 2.00 cu. m
CLASS D PATCH, T-1, 4.00 sq. m

(104) 300mm S.S. CLASS A, T-1, 1.20m
T.B. 1.00u. m
CLASS D PATCH, T-1, 1.00 sq. m

(104A) 450mm S.S. CLASS A, T-1, 8.00m
T.B. 25.50 cu. m

(105) 450mm S.S. CLASS A, T-2, 78.50m
T.B. 259.74 cu. m

(106) 300mm S.S. CLASS A, T-1, 19.80m
T.B. 14.12 cu. m.
CLASS D PATCH, T-3, 16.92 sq. m

(107) 300mm S.S. CLASS A, T-1, 1.20m
T.B. 1.00 cu. m
CLASS D PATCH, T-1, 1.00 sq. m

(107A) 525mm S.S. CLASS A, T-2, 66.50m
T.B. 214.23 cu. m.

(108) STORM SEWERS, (WMR) T-1, 300mm, 11.15m
T.B. 45.19 cu. m
CLASS D PATCH, T-2, 8.70 sq. m

(109) STORM SEWERS, (WMR) T-1, 114.15m
T.B. 4.63 cu. m
CLASS D PATCH, T-2, 11.67 sq. m

(109A) 525mm S.S. CLASS A, T-2, 18.00m
T.B. 63.27 cu. m
CLASS D PATCH, T-4, 20.58 sq. m

(110) STORM SEWERS, (WMR) T-1, 300mm, 4.65m
T.B. 5.00 m

(111) 600mm S.S. CLASS A, T-2, 60.00m
T.B. 94.72 cu. m
CLASS D PATCH, T-4, 60.00 sq. m

(112) 300 mm S.S. CLASS A, T-1, 1.50m
T.B. 1.50 cu. m

(113) 300mm S.S. CLASS A, T-2, 5.25m
T.B.

(114) 300mm S.S., CLASS A, JACKED IN PLACE, 17m WITH 600mm STEEL CASING PIPE AUGERED AND JACKED, 16.50m
T.B.

(115) 375mm S.S. CLASS A, T-2, 15.15m
T.B. 32.85 cu. m
CLASS D PATCH, T-4, 30 SQm

(116) 300mm S.S. CLASS A, T-1, 1.5m
T.B. 1.5 cu. m

(116A) 600mm S.S. CLASS A, T-2, 9.00m
T.B. 11.50 cu. m

(117) 450mm S.S. CLASS A, T-2, 43.15m
T.B. 58.50 cu. m

(DELETE) (118) 375mm S.S. CLASS A, T-2, 54.8m
T.B. 73.0 cu. m

(DELETE) (119) 300mm S.S. CLASS A, T-2, 2.0m
T.B.

(120) 300mm S.S. CLASS A, T-2, 11.0m
T.B.

(121) 300mm S.S. CLASS A, T-2, 5.30m
T.B. 6.00 cu. m

(122) 375mm S.S. CLASS A, T-1, 66.30m
T.B. 80.06 cu. m

(123) 9m, 375 mm PIPE CULVERT
CLASS A, TYPE 1, 11.25m RT
W/2 PRCF END SECTION, 375mm
T.B.
INV. 240.53 (SW)
INV. 240.67 (NE)

(124) 300mm S.S. CLASS A, T-1, 4.80m
T.B. 4.50 cu. m

(125) 300mm S.S. CLASS A, T-1, 1.50m
T.B. 1.00 cu. m

(126) 300mm S.S. CLASS A, T-1, 0.50m
T.B. 1.00 cu. m

(127) 300mm S.S. CLASS A, T-2, 4.00m
T.B. 4.00 cu. m

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

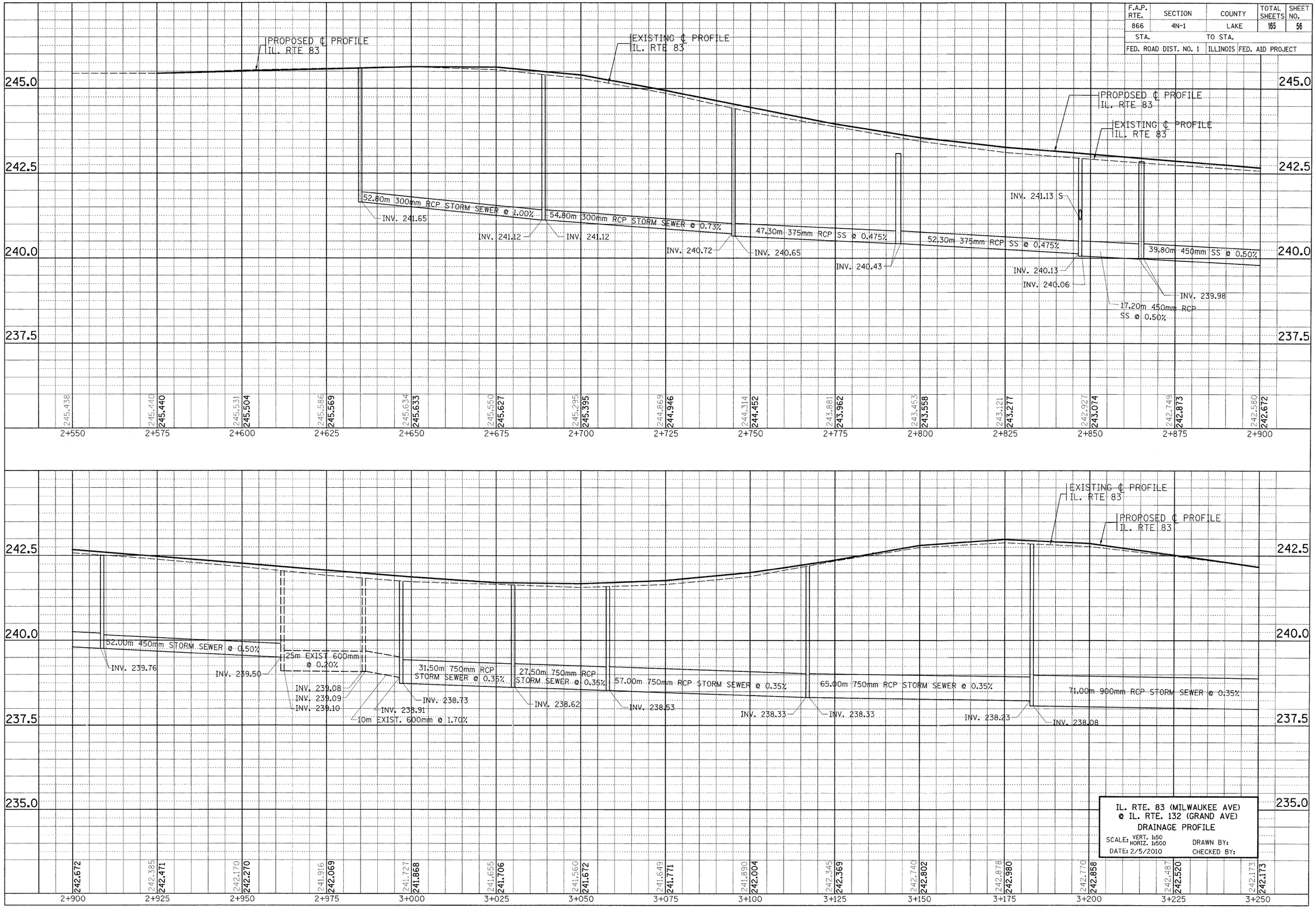
IL. RTE. 83 (MILWAUKEE AVE.) & IL. RTE. 132 (GRAND AVE.) DRAINAGE STRUCTURE TABLE

DRAWN BY

DATE CHECKED BY

*REF-prof1
*REF-prof2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	56
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



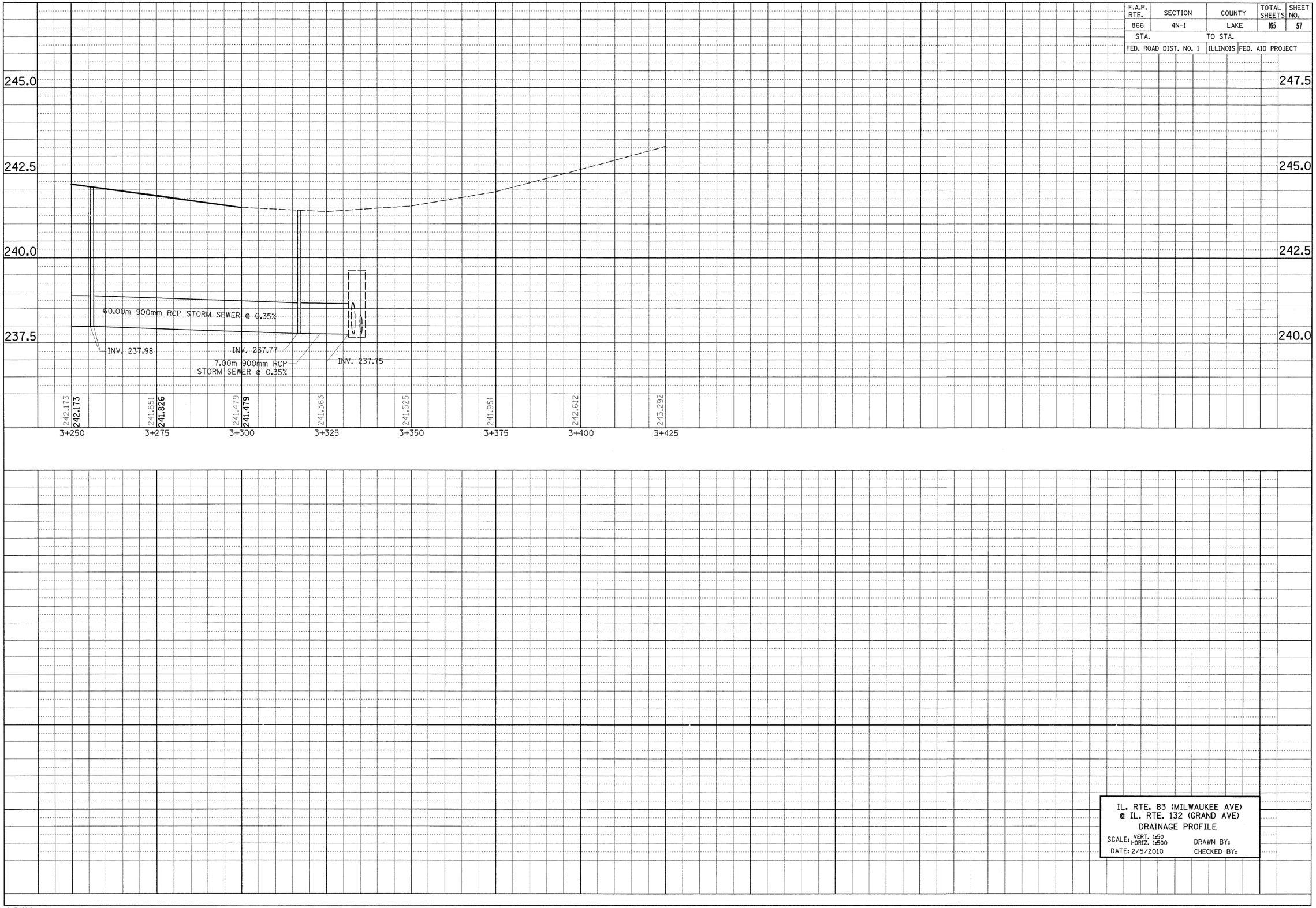
IL. RTE. 83 (MILWAUKEE AVE)
@ IL. RTE. 132 (GRAND AVE)
DRAINAGE PROFILE

SCALE: VERT. 1:50
HORIZ. 1:500
DRAWN BY:
DATE: 2/5/2010
CHECKED BY:

2/5/2010
C:\pw_work\PWIDOT\LISZEKRF\d0108089\PI04498-sht-drain2.dgn
lliszekrf

*REF-prof1
*REF-prof2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	57
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



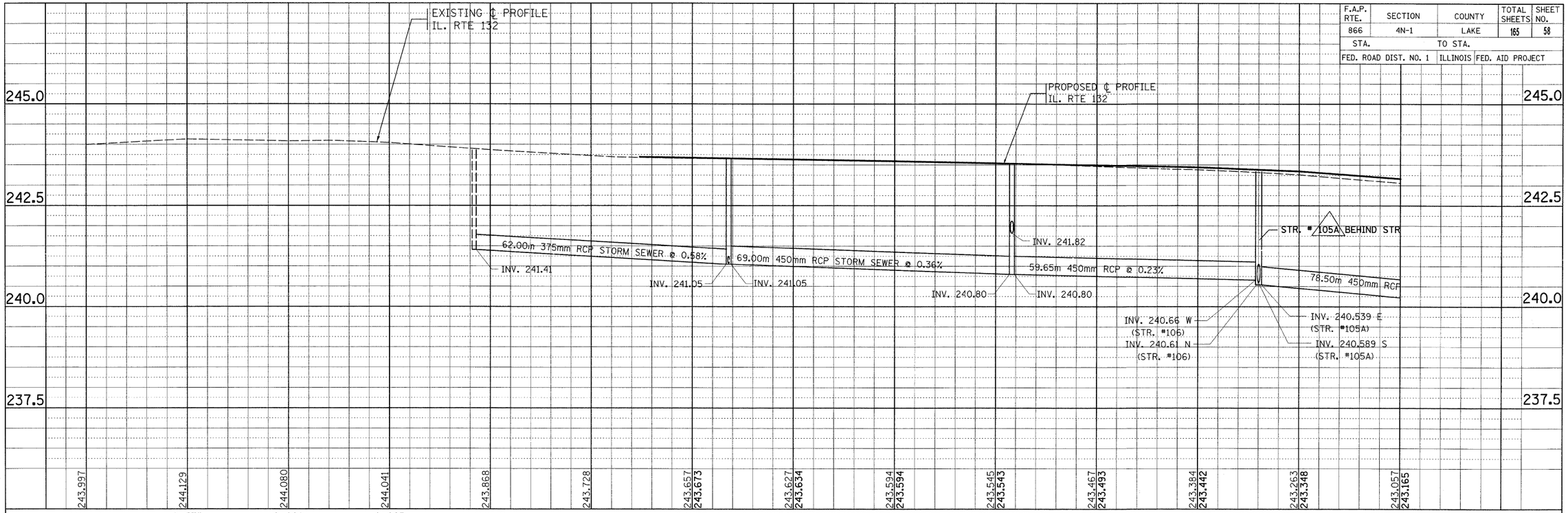
IL. RTE. 83 (MILWAUKEE AVE)
@ IL. RTE. 132 (GRAND AVE)
DRAINAGE PROFILE

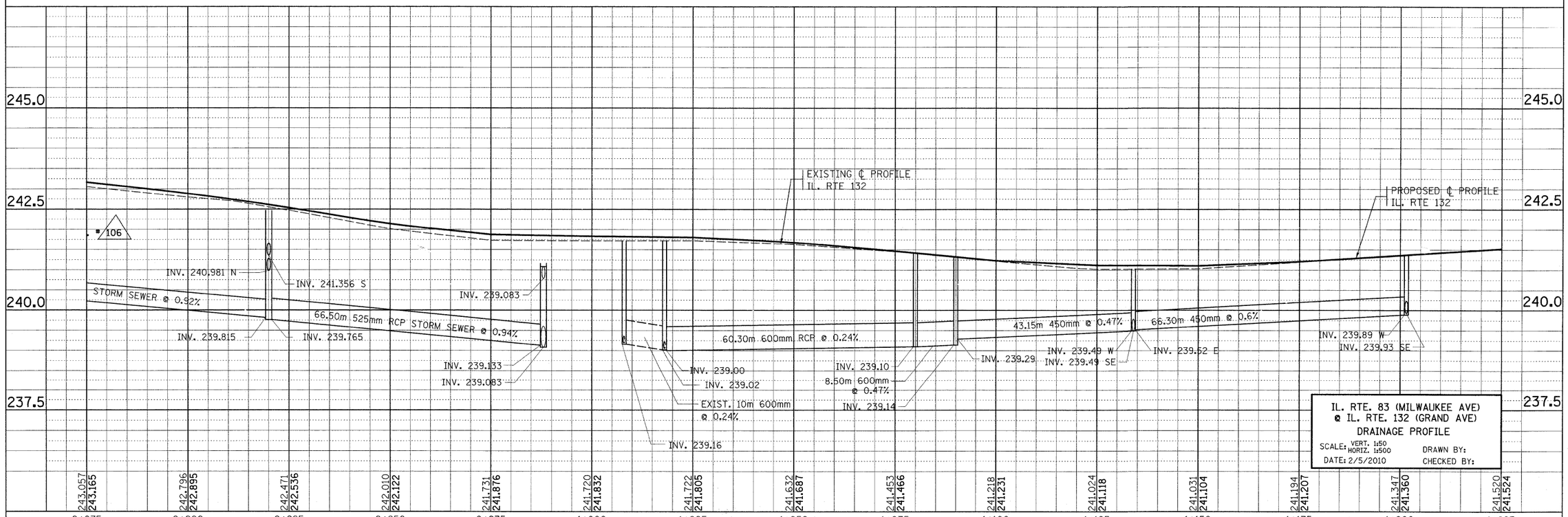
SCALE: VERT. 1:50 HORIZ. 1:500 DRAWN BY:
DATE: 2/5/2010 CHECKED BY:

2/5/2010
C:\pw_work\PWIDOT\LISZEKRF\d0108089\P104498-stt-drain2.dgn
liszekrf

*REF-Dprof1
*REF-Dprof2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	58
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

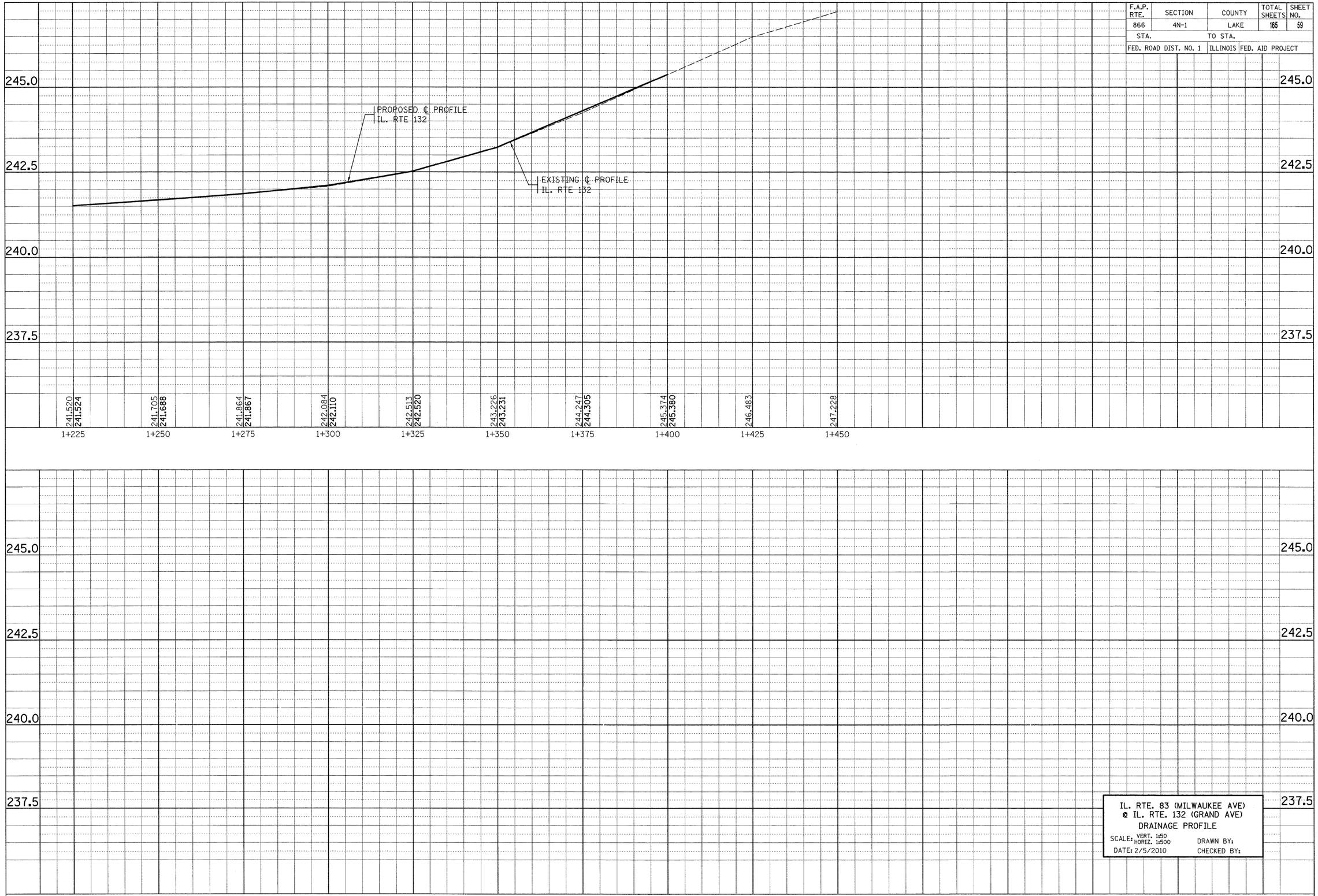




2/5/2010
C:\dw_work\PWIDOT\LISZEKRF\d0108089\PI04498-sht-drain2.dgn
liszekrf

*REF-Dprof1
*REF-Dprof2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	59
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



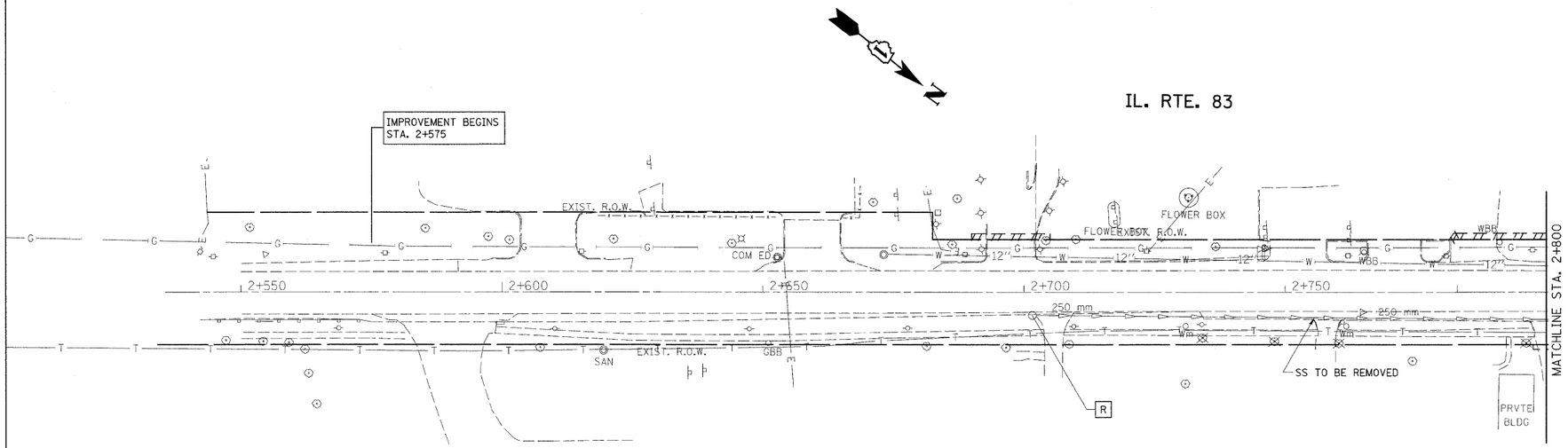
IL. RTE. 83 (MILWAUKEE AVE)
℄ IL. RTE. 132 (GRAND AVE)
DRAINAGE PROFILE

SCALE: VERT. 1:50, HORIZ. 1:500 — DRAWN BY:
DATE: 2/5/2010 — CHECKED BY:

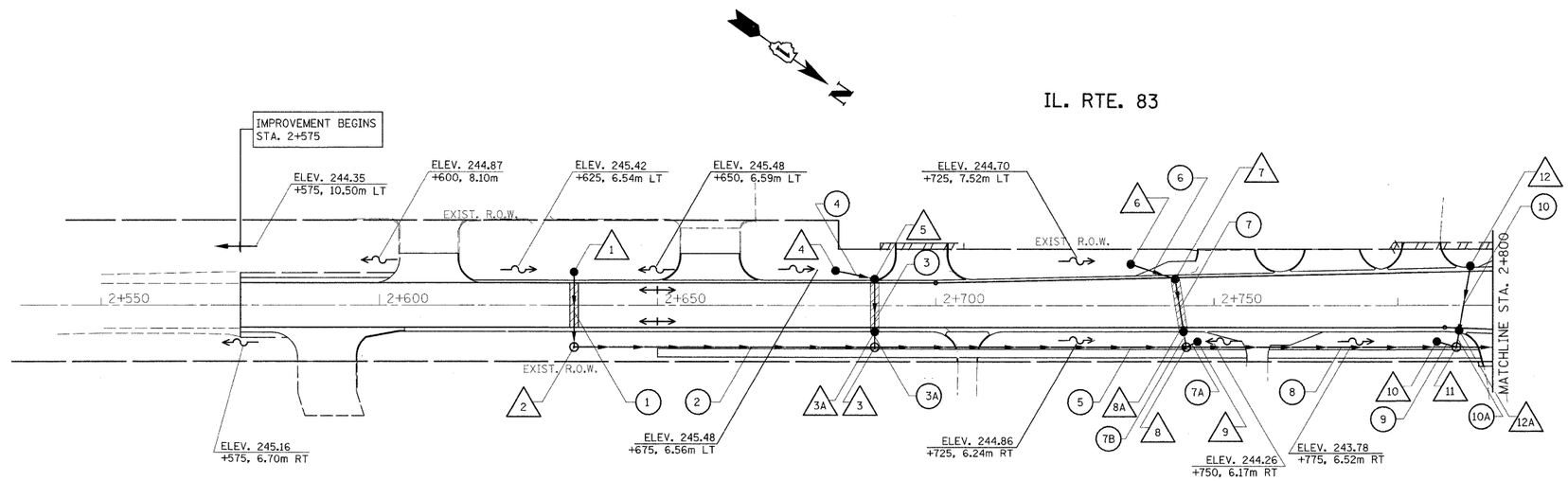
2/5/2010
C:\pw_work\PWIDOT\liszekrf\d0108089\P104498 stt drain2.dgn
liszekrf

*REF-edr4
*REF-pdr4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	60
STA. 2+575		TO STA. 2+800		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



EXISTING



PROPOSED

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN
ILL. RTE 83 @ ILL RTE 132

SCALE:
DRAWN BY
DATE: 2/5/2010
CHECKED BY

2/5/2010
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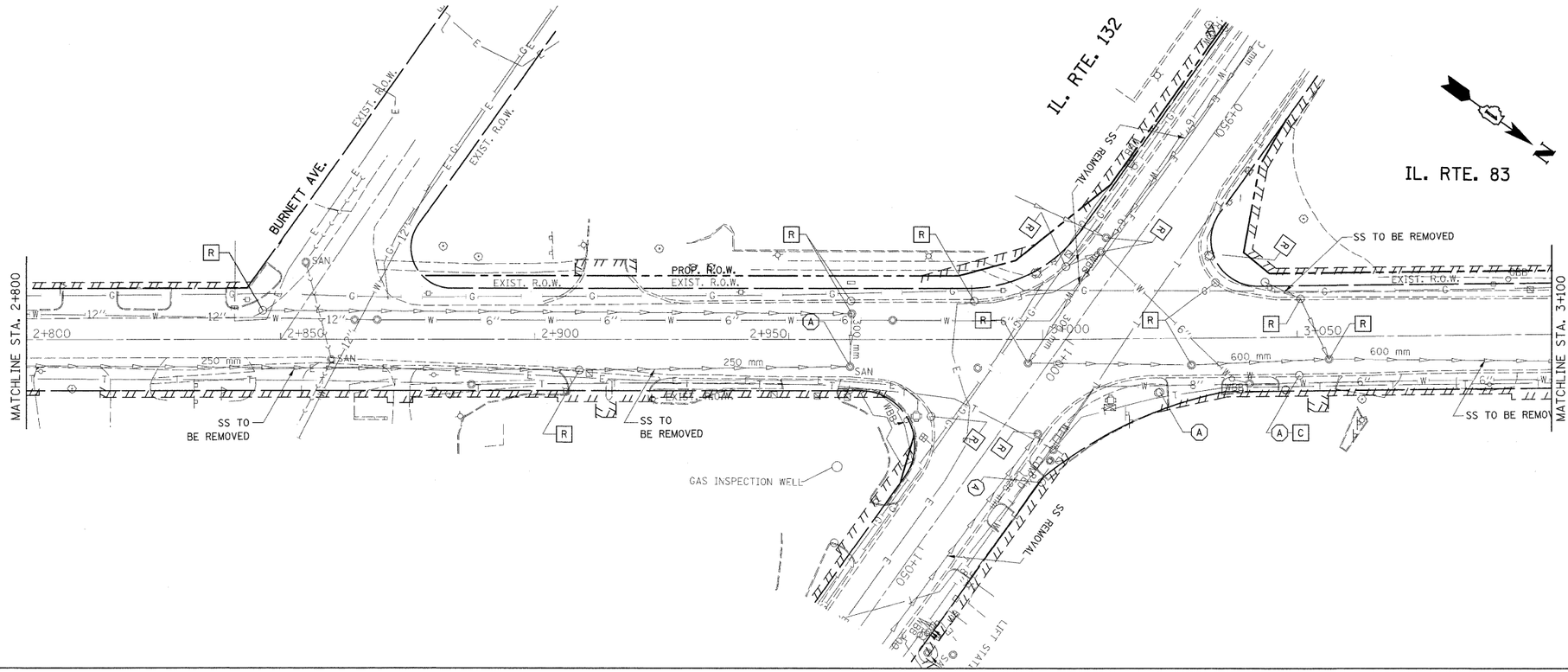
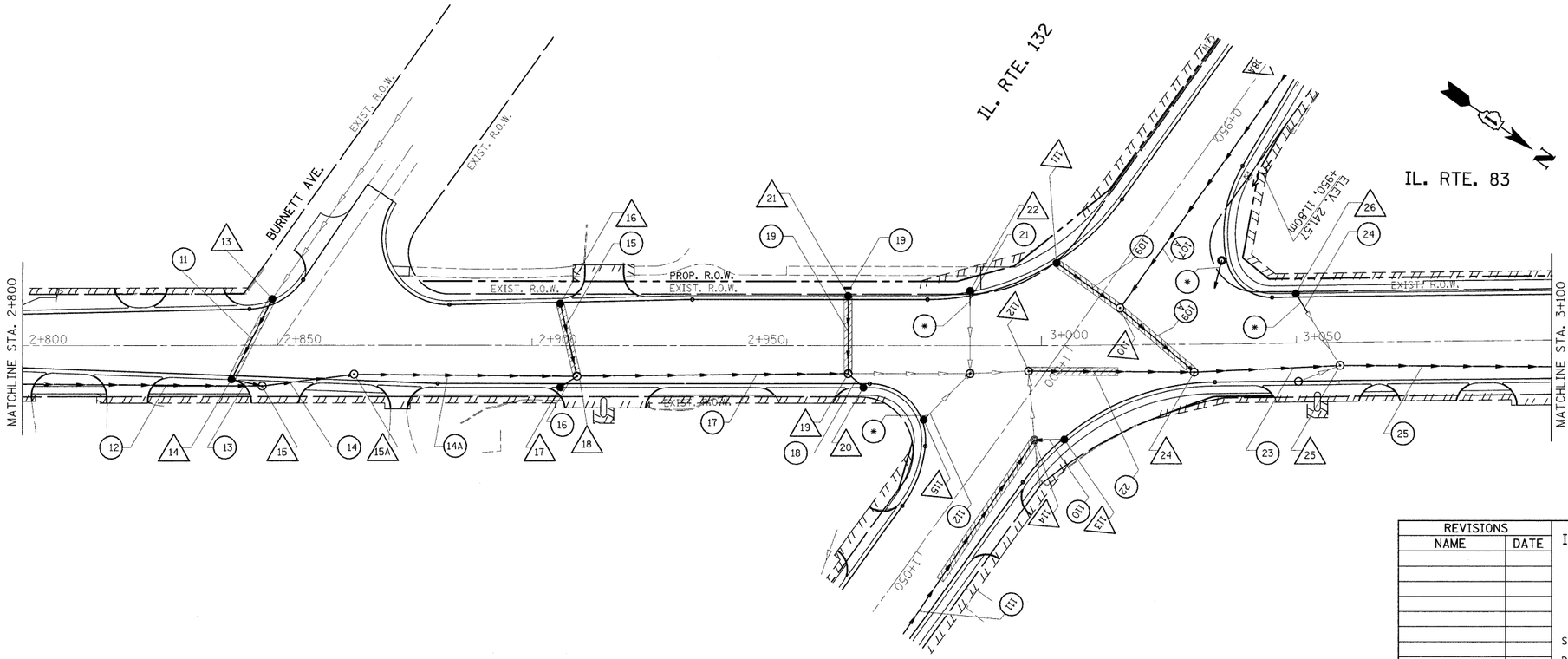
ilszekrf

*REF-edr5
*REF-pdr5

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	61
STA. 2+800		TO STA. 3+100		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



EXISTING



PROPOSED

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN
ILL. RTE 83 @ ILL RTE 132

SCALE:
DATE: 2/5/2010
DRAWN BY
CHECKED BY

2/5/2010
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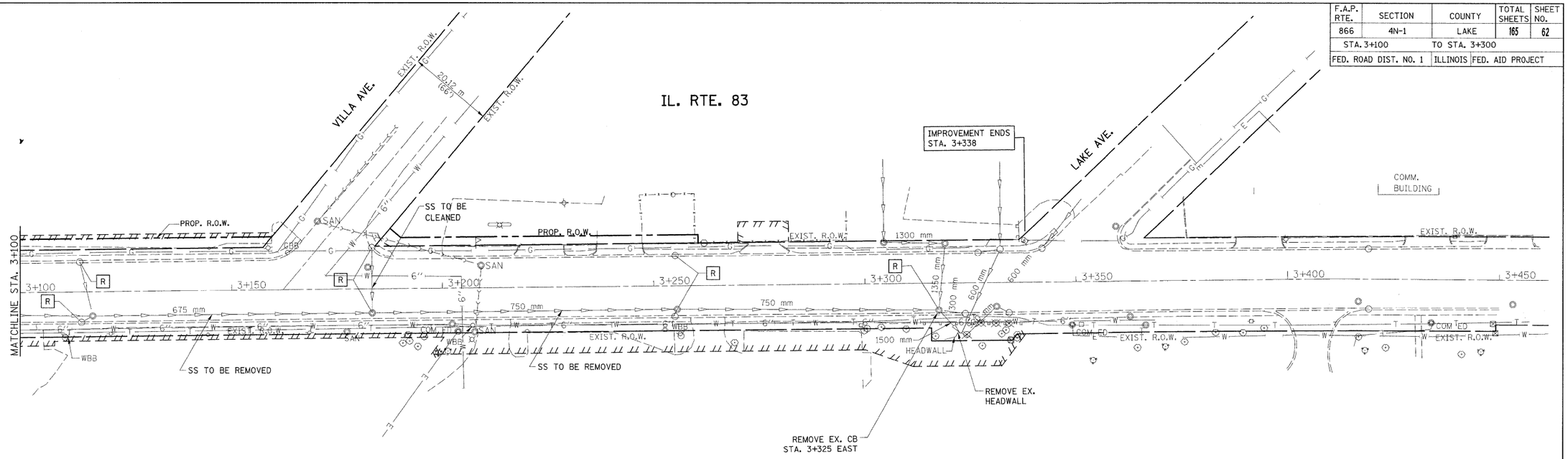
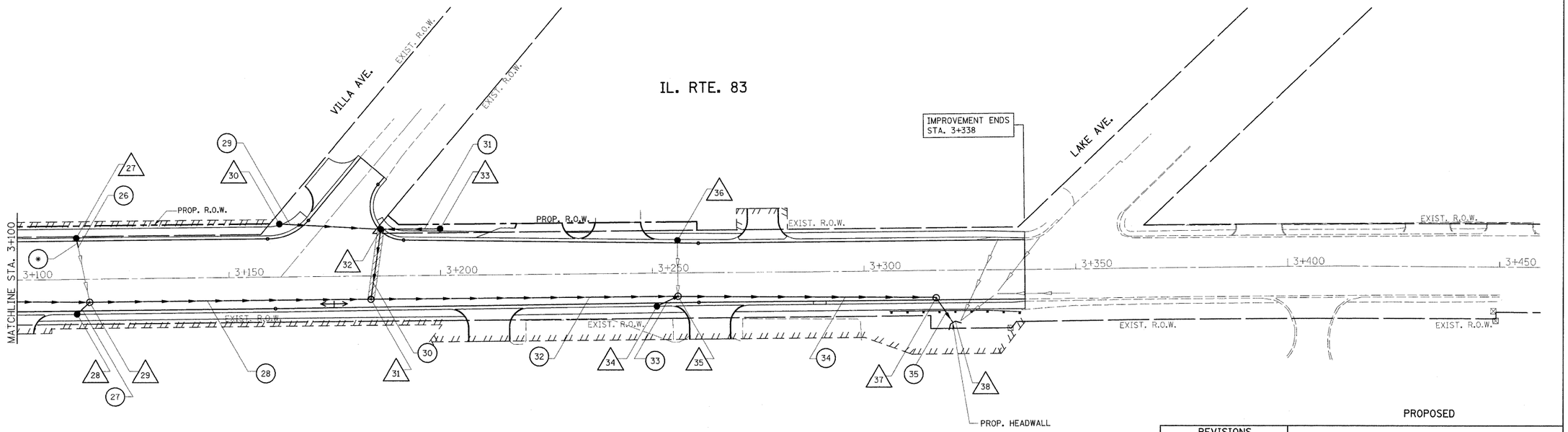
llszekrf

*REF-edr6
*REF-par6

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	62
STA. 3+100		TO STA. 3+300		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



EXISTING



PROPOSED

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

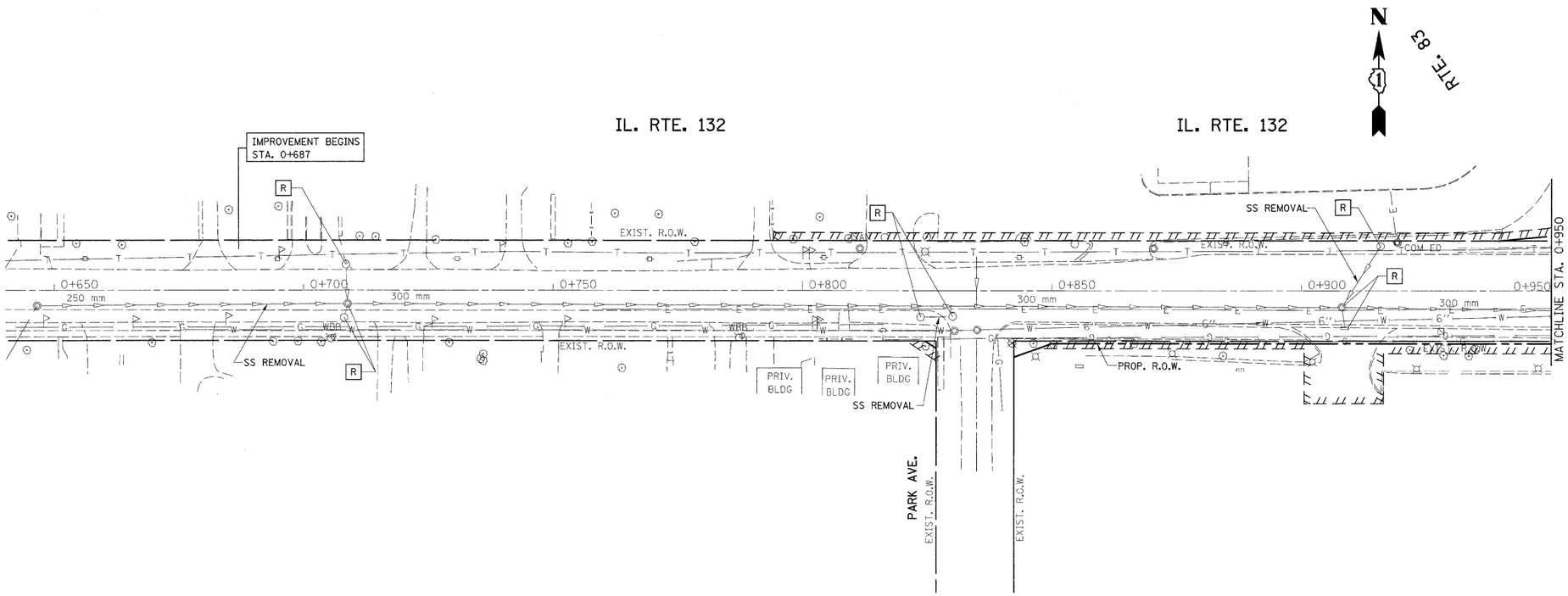
DRAINAGE PLAN
ILL. RTE 83 @ ILL RTE 132

SCALE:
DRAWN BY
DATE: 2/5/2010
CHECKED BY

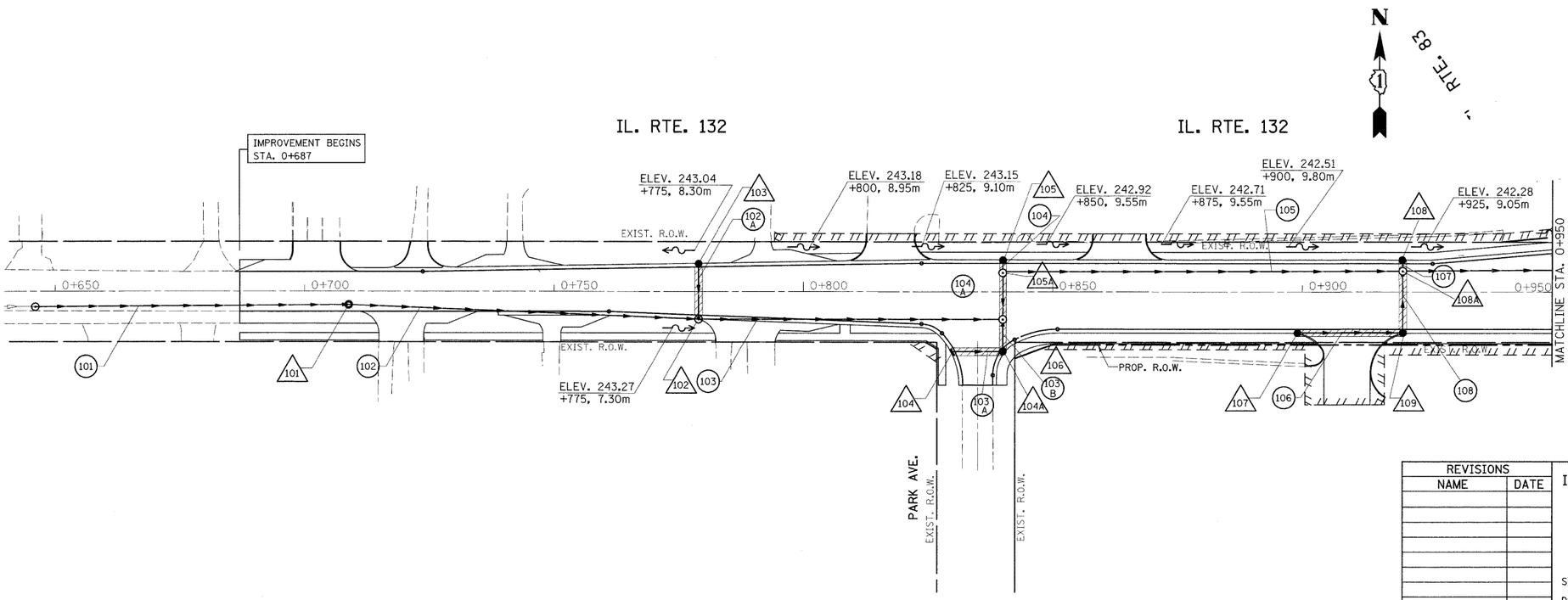
2/5/2010
C:\pw_work\PWIDOT\IJSZEKRF\d0108089\PI04498-sht-drain2.dgn
ijszekrf

*REF-edr1
*REF-pdr1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	63
STA. 0+687		TO STA. 0+950		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



EXISTING



PROPOSED

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN
ILL. RTE 83 @ ILL RTE 132

SCALE:
DATE: 2/5/2010
DRAWN BY
CHECKED BY

2/5/2010
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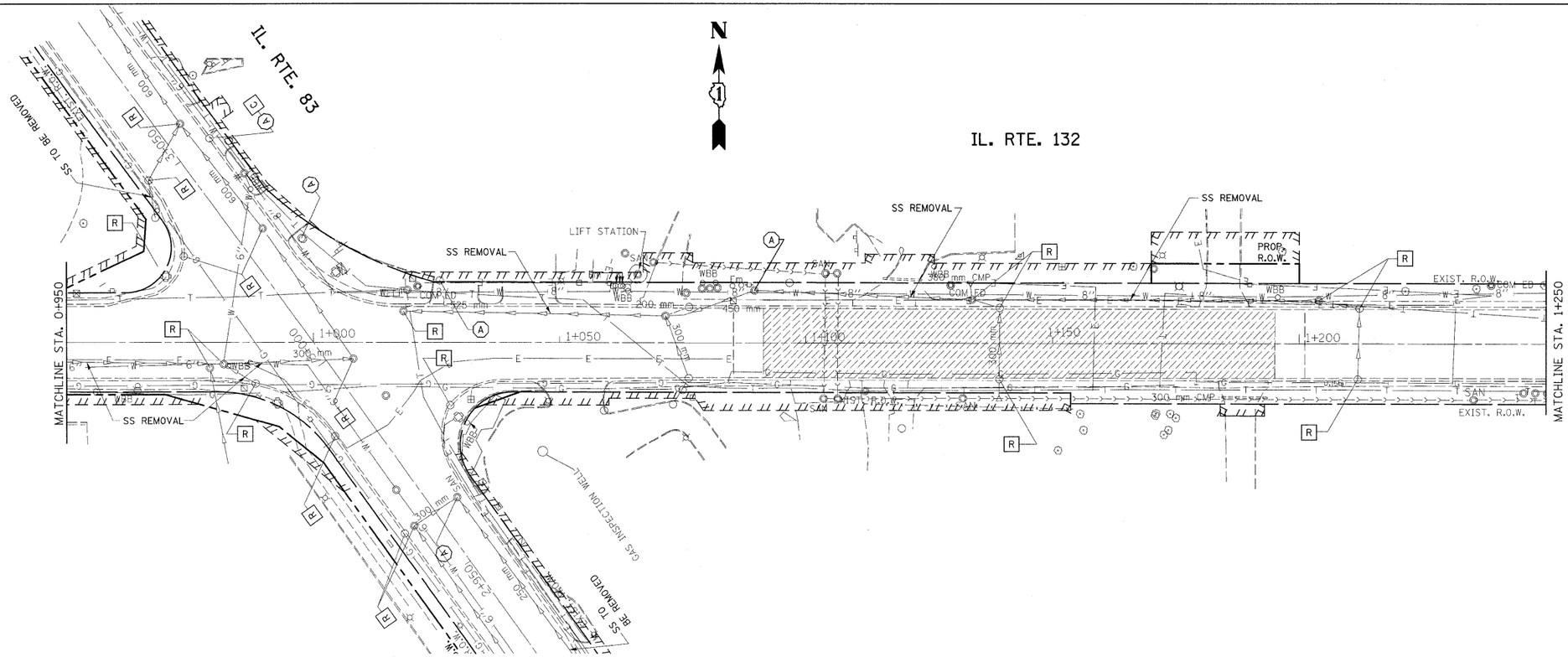
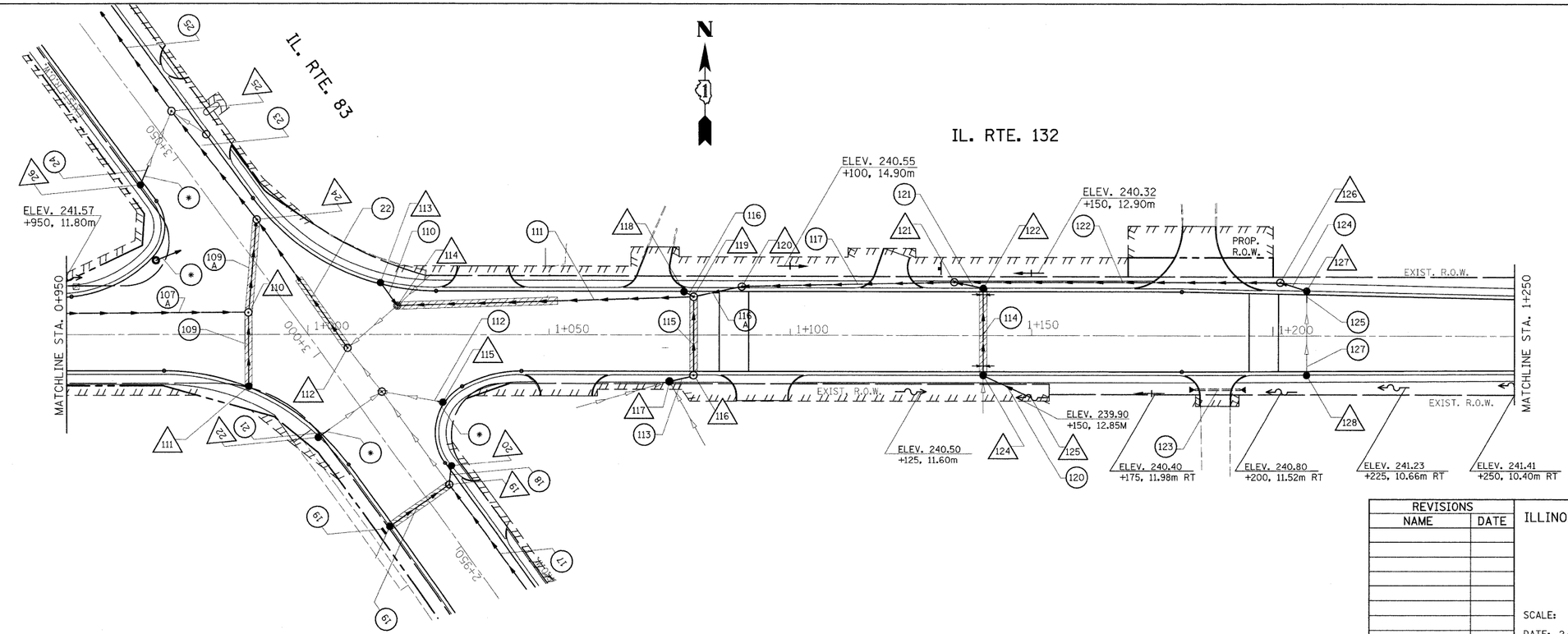
IJszekrf

*REF-edr2
*REF-pdr2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	64
STA. 0+950		TO STA. 1+250		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



EXISTING



PROPOSED

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN
ILL. RTE 83 @ ILL RTE 132

SCALE:
DRAWN BY
DATE: 2/5/2010
CHECKED BY

2/5/2010
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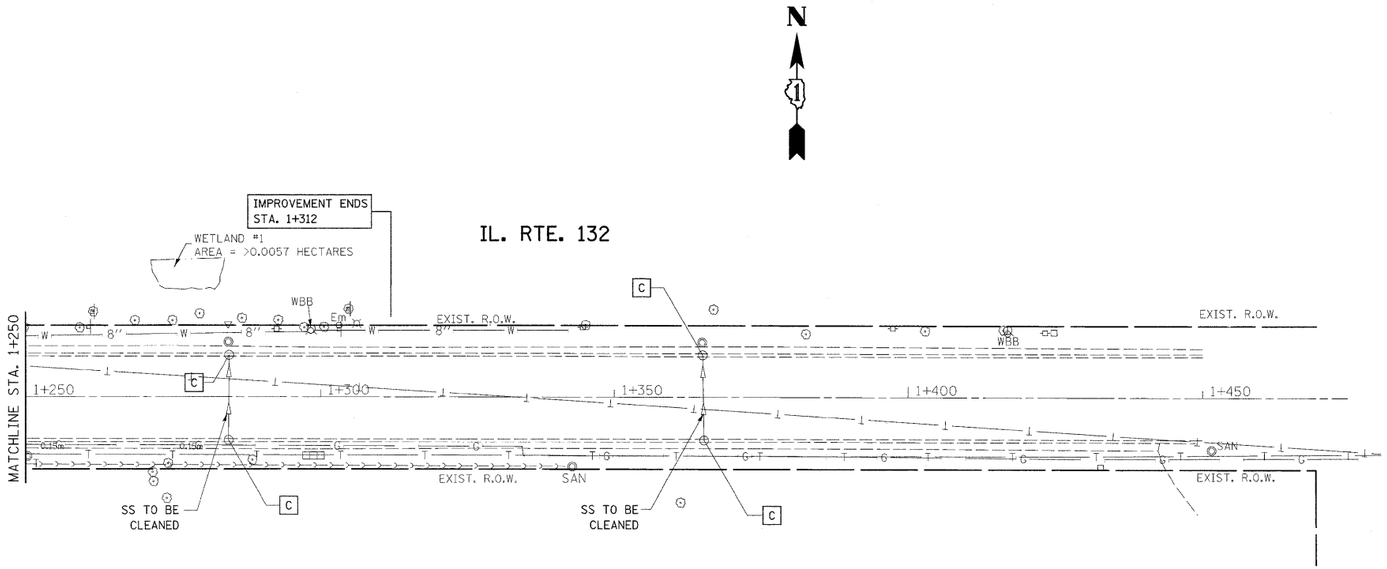
ilszekrf

•REF-edr3
•REF-pdr3

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	65
STA. 1+250		TO STA. 1+311.33		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



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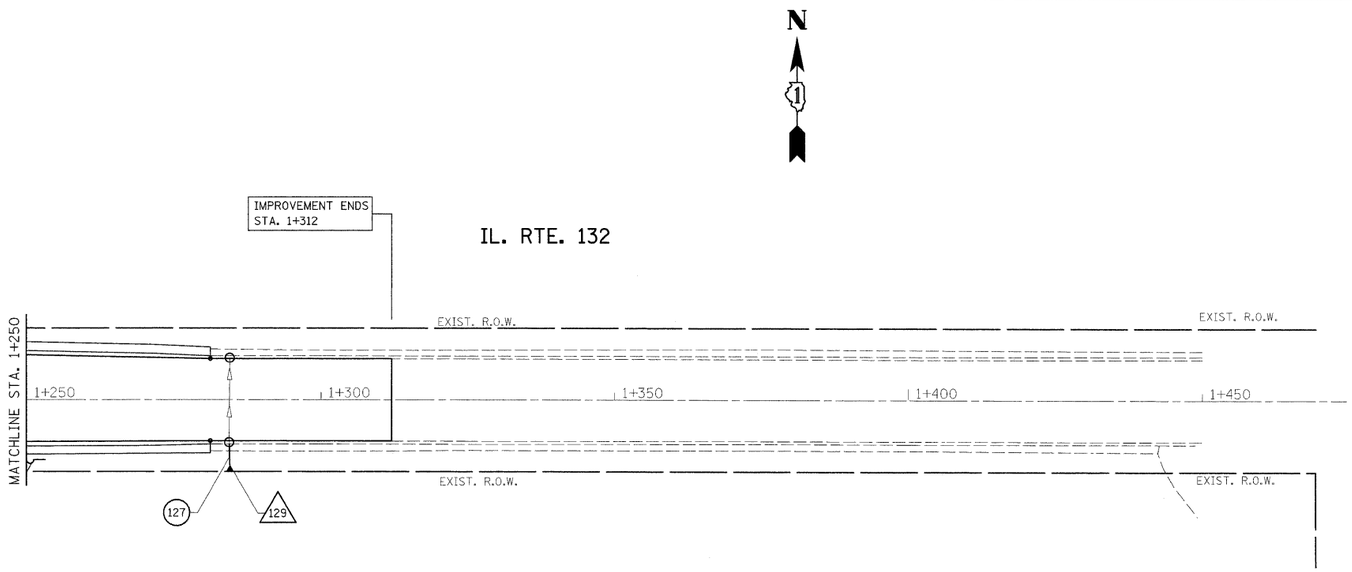

PROPOSED

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN
ILL. RTE 83 @ ILL RTE 132

SCALE: DRAWN BY
DATE: 2/5/2010 CHECKED BY

2/5/2010
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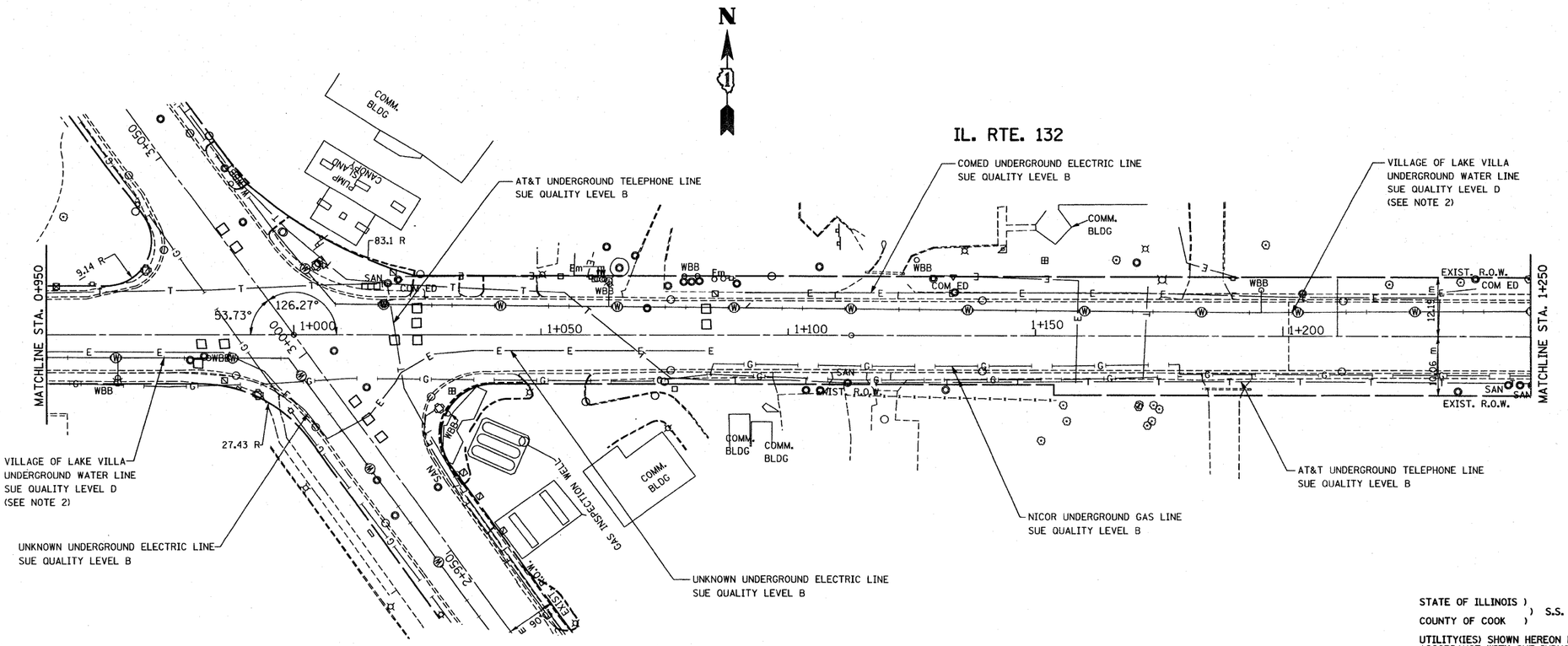
ijszekrf

*REF-topo2
*REF-pp2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	66
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



STATE OF ILLINOIS)
) S.S.
COUNTY OF COOK)

UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 15TH OF AUGUST AND 10TH DAY OF SEPTEMBER, A.D., 2008.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 25TH DAY OF SEPTEMBER A.D., 2008. CHICAGO, IL.

STEVEN M. RIENKS 062-044619 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

STEVEN M. RIENKS — ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-044619
MY LICENSE EXPIRES 11/30/2009

UTIL-1

NOTES:

1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, AND TOPOGRAPHIC FEATURES WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION, CONTRACT NUMBER 60931 DATED MAY 27, 2008.
2. SOME WATER MAINS WERE INDETERMINABLE. THEY ARE DRAWN USING THE ATLAS PROVIDED BY THE VILLAGE OF LAKE VILLA.

LEGEND

- T — EXISTING UNDERGROUND TELEPHONE
- E — EXISTING UNDERGROUND ELECTRIC
- G — EXISTING UNDERGROUND GAS
- W — EXISTING UNDERGROUND WATER
- (W) — EXISTING UNDERGROUND WATER (PER UTILITY ATLAS MAPS)

AMERICAN SURVEYING & ENGINEERING, P.C.

REVISIONS NAME	DATE

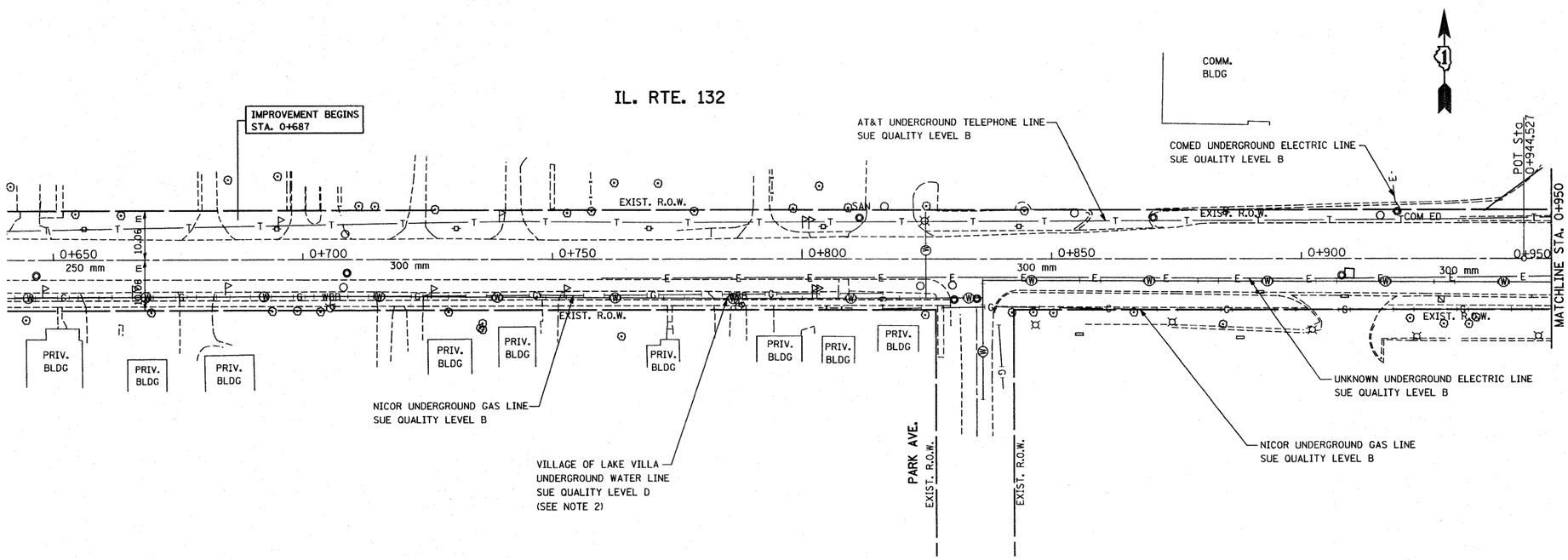
ILLINOIS DEPARTMENT OF TRANSPORTATION

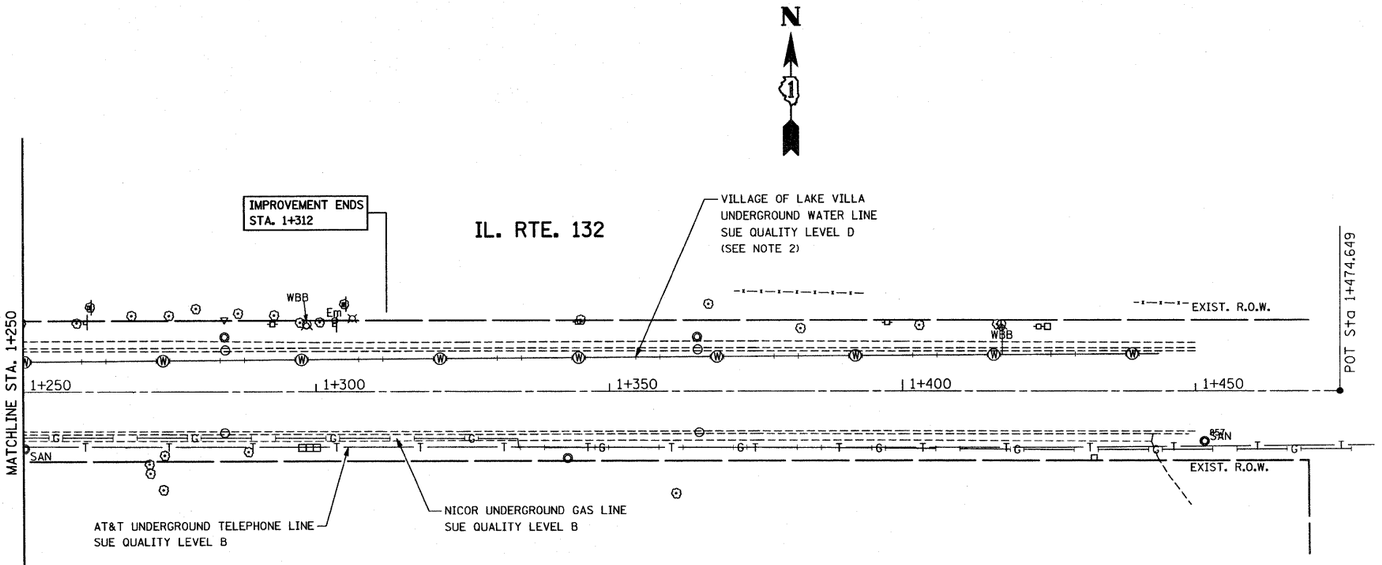
IL. RTE. 83 (MILWAUKEE AVE.) @ IL. RTE. 132 (GRAND AVE.) SUE INVESTIGATION OF UNDERGROUND UTILITIES

SCALE: 1:500 — DRAWN BY CTT

DATE: 9/25/2008 — CHECKED BY SMR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	67
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	





LEGEND

- T — EXISTING UNDERGROUND TELEPHONE
- E — EXISTING UNDERGROUND ELECTRIC
- G — EXISTING UNDERGROUND GAS
- W — EXISTING UNDERGROUND WATER
- (W) — EXISTING UNDERGROUND WATER (PER UTILITY ATLAS MAPS)

NOTES:

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STATE OF ILLINOIS)
) S.S.
COUNTY OF COOK)

UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 15TH OF AUGUST AND 10TH DAY OF SEPTEMBER, A.D., 2008.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 25TH DAY OF SEPTEMBER A.D., 2008. CHICAGO, IL.

STEVEN M. RIENKS 062-044619 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

STEVEN M. RIENKS - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-044619
MY LICENSE EXPIRES 11/30/2009

UTIL-2

REVISIONS	
NAME	DATE

AMERICAN SURVEYING & ENGINEERING, P.C.

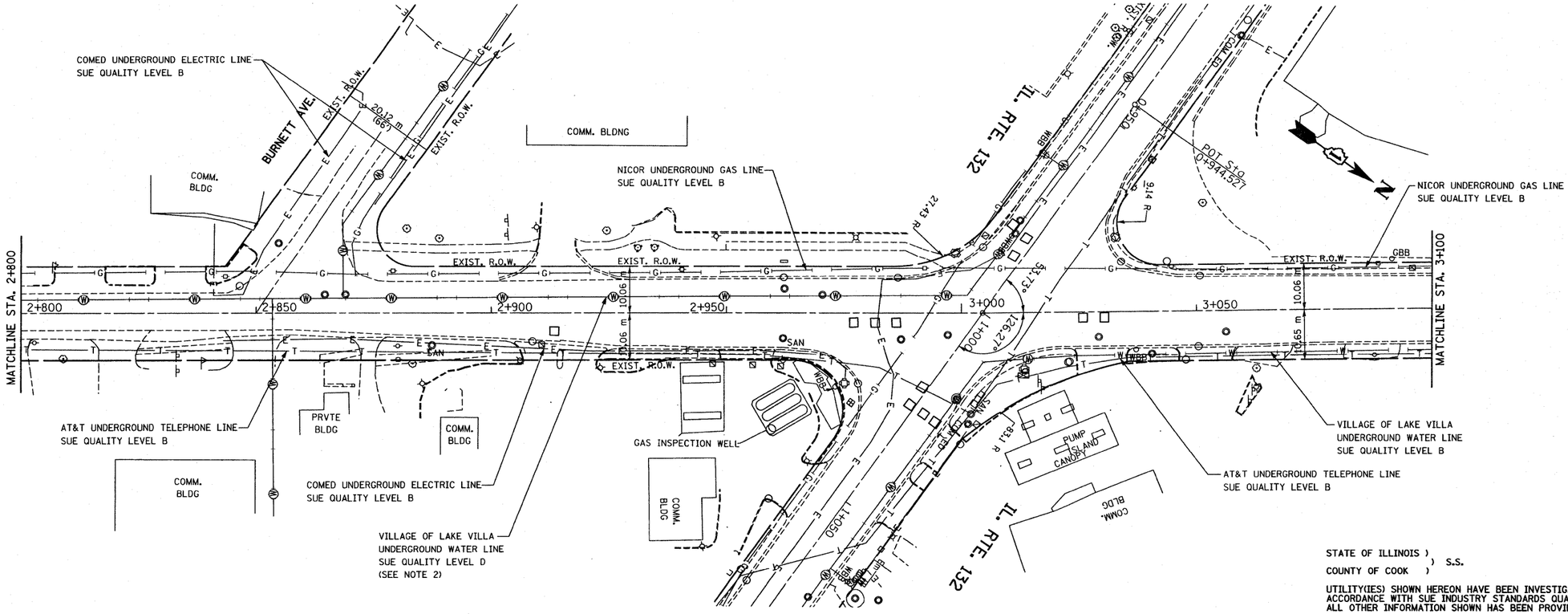
ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE. 83 (MILWAUKEE AVE.) @ IL. RTE. 132 (GRAND AVE.) SUE INVESTIGATION OF UNDERGROUND UTILITIES

SCALE: 1:500 DRAWN BY CTT

DATE: 9/25/2008 CHECKED BY SMR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	68
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



LEGEND

- T — EXISTING UNDERGROUND TELEPHONE
- E — EXISTING UNDERGROUND ELECTRIC
- G — EXISTING UNDERGROUND GAS
- W — EXISTING UNDERGROUND WATER
- W — EXISTING UNDERGROUND WATER (PER UTILITY ATLAS MAPS)

NOTES:

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STATE OF ILLINOIS)
) S.S.
COUNTY OF COOK)

UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 15TH OF AUGUST AND 10TH DAY OF SEPTEMBER, A.D., 2008.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 25TH DAY OF SEPTEMBER A.D., 2008. CHICAGO, IL.

STEVEN M. RIENKS 062-044619 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

STEVEN M. RIENKS - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-044619
MY LICENSE EXPIRES 11/30/2009

UTIL-3

REVISIONS	
NAME	DATE

AMERICAN SURVEYING & ENGINEERING, P.C.

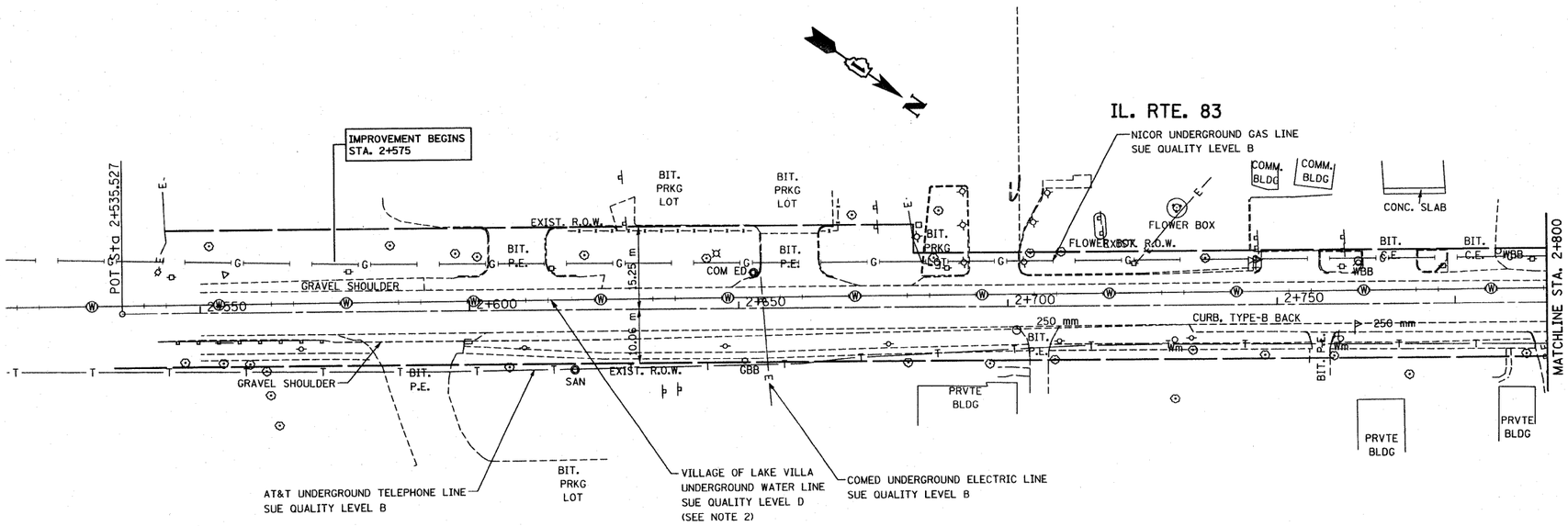
ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE. 83 (MILWAUKEE AVE.) @ IL. RTE. 132 (GRAND AVE.) SUE INVESTIGATION OF UNDERGROUND UTILITIES

SCALE: 1:500 DRAWN BY CTT

DATE: 9/25/2008 CHECKED BY SMR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	69
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



STATE OF ILLINOIS)
) S.S.
COUNTY OF COOK)

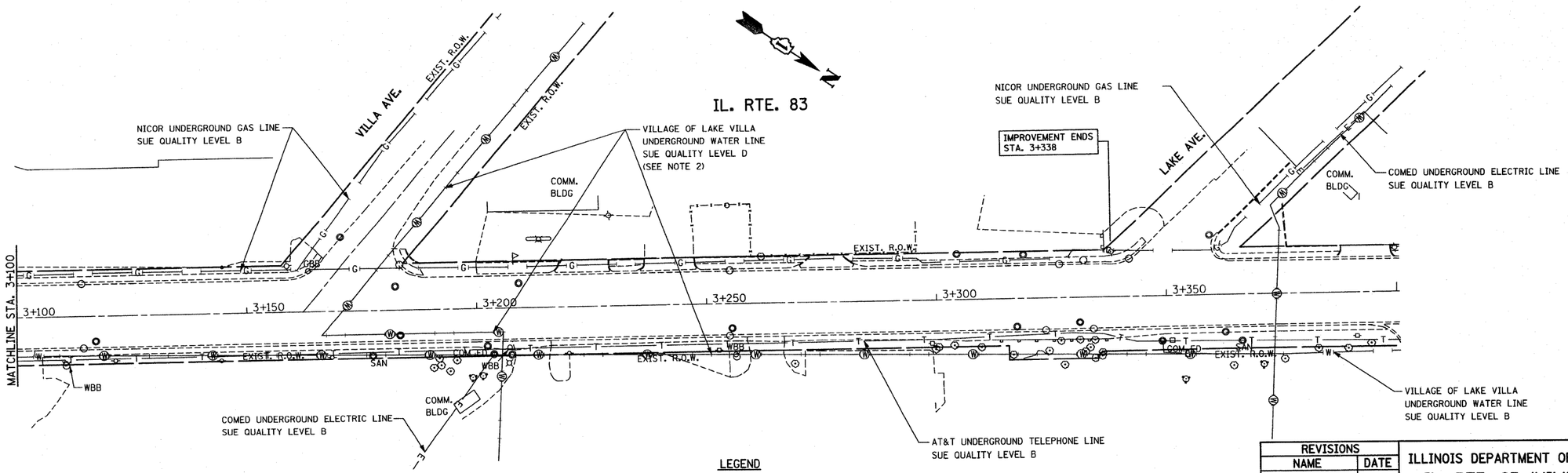
UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 15TH OF AUGUST AND 10TH DAY OF SEPTEMBER, A.D., 2008.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 25TH DAY OF SEPTEMBER A.D., 2008. CHICAGO, IL.

STEVEN M. RIENKS 062-044619 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

STEVEN M. RIENKS - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-044619
MY LICENSE EXPIRES 11/30/2009



UTIL-4

NOTES:

1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, AND TOPOGRAPHIC FEATURES WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION, CONTRACT NUMBER 60931 DATED MAY 27, 2008.
2. SOME WATER MAINS WERE INDETERMINABLE. THEY ARE DRAWN USING THE ATLAS PROVIDED BY THE VILLAGE OF LAKE VILLA.

LEGEND

T	EXISTING UNDERGROUND TELEPHONE
E	EXISTING UNDERGROUND ELECTRIC
G	EXISTING UNDERGROUND GAS
W	EXISTING UNDERGROUND WATER
W	EXISTING UNDERGROUND WATER (PER UTILITY ATLAS MAPS)

AMERICAN SURVEYING & ENGINEERING, P.C.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. RTE. 83 (MILWAUKEE AVE.) @ IL. RTE. 132 (GRAND AVE.)
SUE INVESTIGATION OF UNDERGROUND UTILITIES

SCALE: 1:500 DRAWN BY CTT

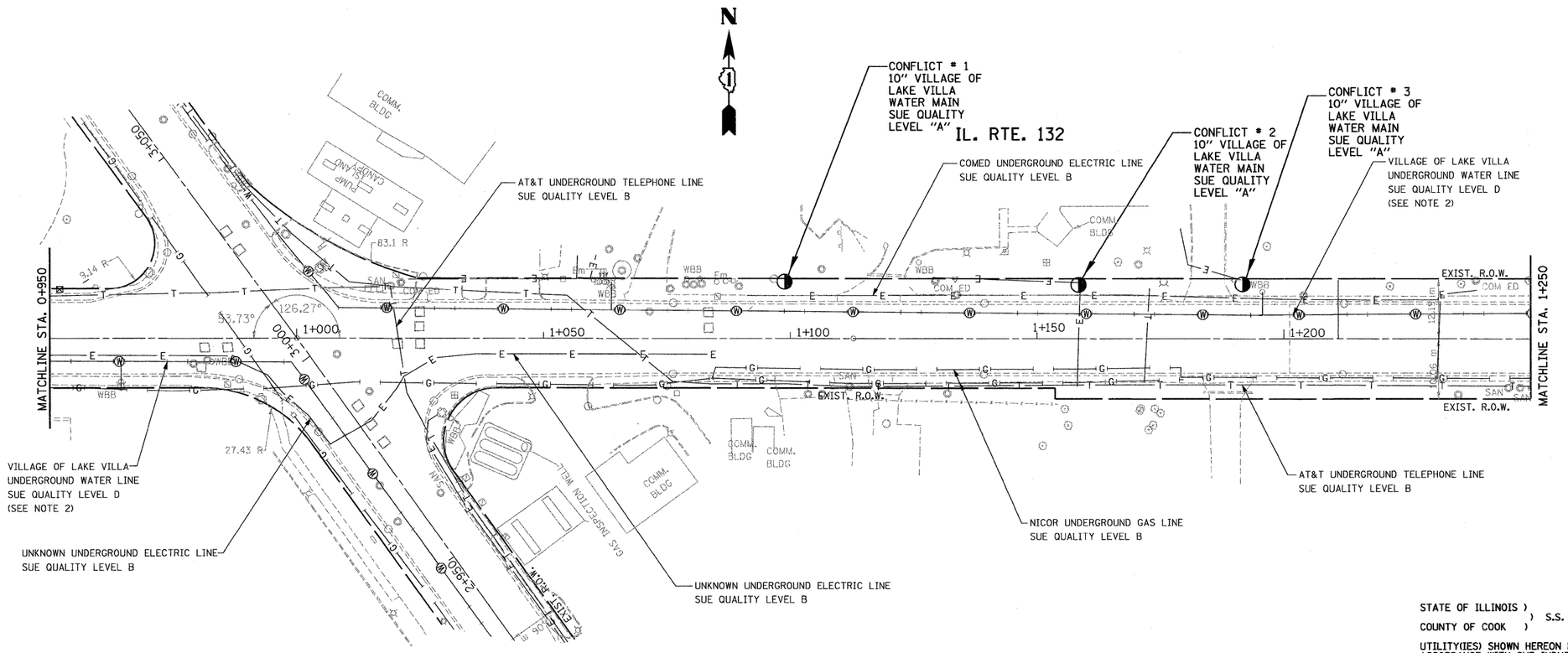
DATE: 9/25/2008 CHECKED BY SMR

*REF-topo2
*REF-pp2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	69A
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

VERIFIED UTILITY INFORMATION - SUE QUALITY LEVEL A

CONFLICT NO.	SIZE / TYPE	NORTHING	EASTING	STATION	OFFSET	TOP OF UTILITY	EXISTING CUT	REFERENCE GROUND ELEV.	COMMENTS
1	10" WATER MAIN	638294.1273	321517.7095	1+098.834	11.537m LT.	204.972	1.219	206.191	VILLAGE OF LAKE VILLA
2	10" WATER MAIN	638293.4183	321577.2476	1+158.373	10.914m LT.	204.305	2.088	206.393	VILLAGE OF LAKE VILLA
3	10" WATER MAIN	638293.4802	321610.4800	1+191.605	11.030m LT.	204.941	1.911	206.852	VILLAGE OF LAKE VILLA



STATE OF ILLINOIS)
) S.S.
COUNTY OF COOK)

UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY LEVEL A (QLA). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 5TH OF FEBRUARY AND 22ND DAY OF FEBRUARY, A.D., 2010.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 1ST DAY OF MARCH A.D., 2010. CHICAGO, IL.

STEVEN M. RIENKS 062-044619 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

Steven M. Rienks

STEVEN M. RIENKS - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-044619
MY LICENSE EXPIRES 11/30/2011

UTIL-1

NOTES:

1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, AND TOPOGRAPHIC FEATURES WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION, CONTRACT NUMBER 60931 DATED MAY 27, 2008.
2. SOME WATER MAINS WERE INDETERMINABLE. THEY ARE DRAWN USING THE ATLAS PROVIDED BY THE VILLAGE OF LAKE VILLA.

LEGEND

- T — EXISTING UNDERGROUND TELEPHONE
- E — EXISTING UNDERGROUND ELECTRIC
- G — EXISTING UNDERGROUND GAS
- W — EXISTING UNDERGROUND WATER
- W — EXISTING UNDERGROUND WATER (PER UTILITY ATLAS MAPS)
- QUALITY LEVEL A (QLA) HOLE LOCATION

AMERICAN SURVEYING & ENGINEERING, P.C.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL. RTE. 83 (MILWAUKEE AVE.)
@ IL. RTE. 132 (GRAND AVE.)
SUE INVESTIGATION OF UNDERGROUND UTILITIES

SCALE: 1:500 DRAWN BY WMB
DATE: 3/01/2010 CHECKED BY SMR

Bench Mark: "x" cut in top of east most bolt on east base of Citgo sign, northeast corner of Route 83 and Route 132.
Elev. 241.861

Existing Structure: A 15-span reinforced concrete slab structure consisting of continuous three-span units supported on concrete piles. Each unit has a width of 14.021 m and a length of 20.726 m. The overall length of the structure is 103.632 m. Utilizing stage construction, one lane of traffic in each direction and a westbound left turn lane shall be maintained at all times.

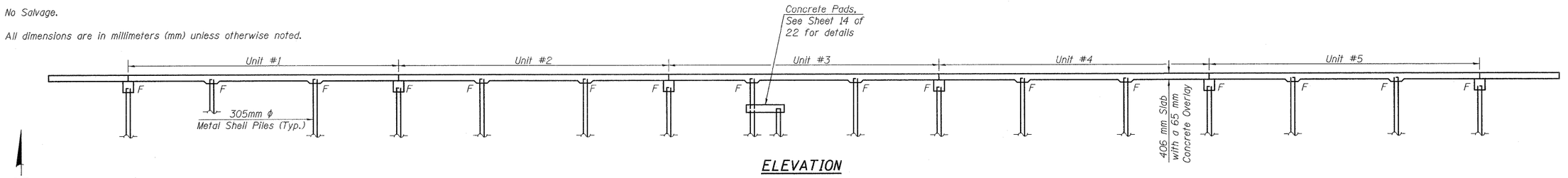
No Salvage.

All dimensions are in millimeters (mm) unless otherwise noted.

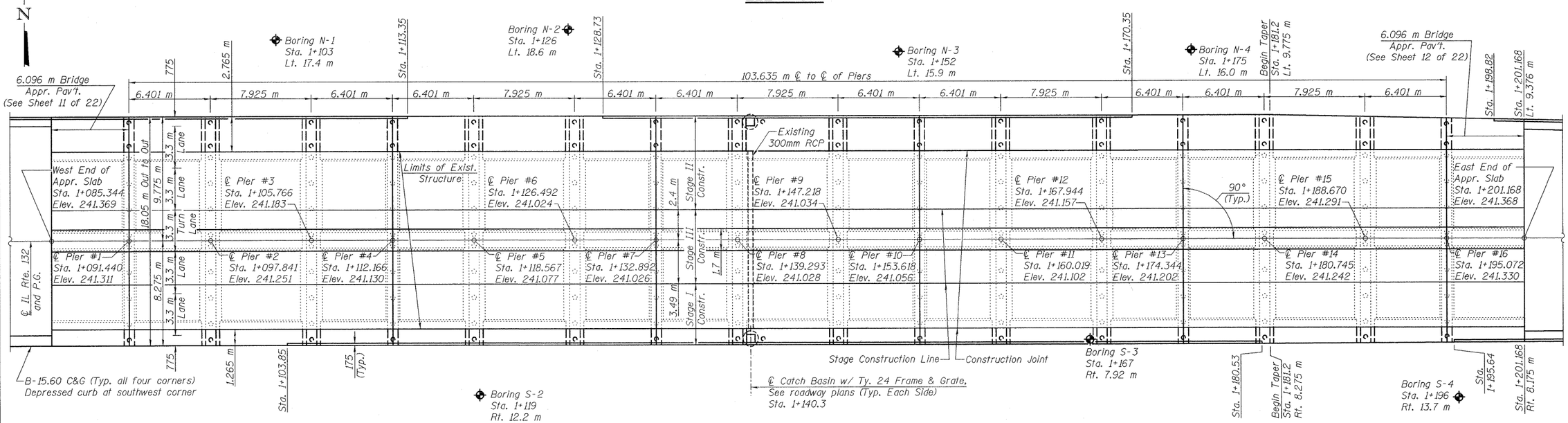
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 866	4N-1	LAKE	165	70
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 1 of 22

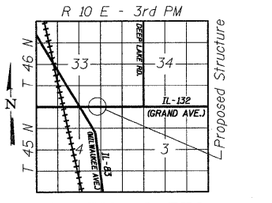
Contract No.: 60931



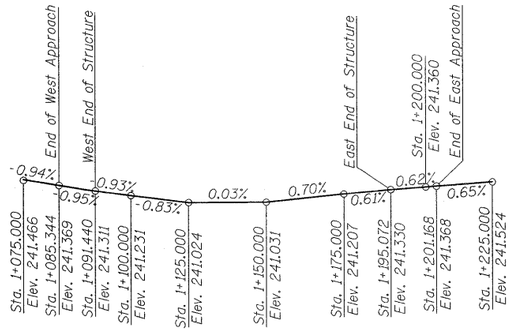
ELEVATION



PLAN



LOCATION SKETCH



PROFILE GRADE

(Located at top of proposed concrete overlay)

STATE OF ILLINOIS
BRANDON L. BUZZELL
6358
NAPERVILLE IL
LICENSED STRUCTURAL ENGINEER
11/13/09
Expires 11-30-10

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson (TJD)
ENGINEER OF BRIDGES AND STRUCTURES

LOADING MS18

Allow 1.2 kN/m² for future wearing surface.

DESIGN SPECIFICATIONS

AASHTO 17th Ed. - 2002

DESIGN STRESSES

FIELD UNITS - NEW CONST.

f'_c = 24 MPa
f_y = 420 MPa (reinforcement)

RJN GROUP
RJN GROUP, INC.
WHEATON, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN AND ELEVATION
IL RTE. 132 LAND BRIDGE
FAP RTE 866 - SEC 4N-1
LAKE COUNTY
STA. 1+143.3
SN 049-D002
DRAWN BY BLB
DATE: 11-06-09
CHECKED BY WJV

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 866	4N-1	LAKE	165	71
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 2 of 22

Contract No.: 60931

Reinforcement bars shall conform to the requirements of ASTM A 706M Grade 420. See Special Provisions.

The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The contractor shall drive three test piles to 110% of the nominal required bearing specified in production locations at the north end of Pier #3, the north end of Pier #9, and the south end of Pier #14 as directed by the Engineer before ordering the remainder of piles.

All dimensions are in millimeters (mm) except as noted.

All construction joints shall be bonded.

INDEX OF SHEETS

TOTAL BILL OF MATERIAL

	ITEM	UNIT	SUPER	SUB	TOTAL
	Hot-Mix Asphalt Surface Removal (Deck)	Sq M	1624		1624
	Concrete Removal	Cu M	80.5		80.5
	Structure Excavation	Cu M		374.4	374.4
	Concrete Structures	Cu M		4.1	4.1
	Concrete Superstructure	Cu M	282.8		282.8
	Bridge Deck Grooving	Sq M	1964		1964
*	Protective Coat	Sq M	61		61
	Reinforcement Bars, Epoxy Coated	Kg	33310	290	33600
	Furnishing Metal Shell Piles 305 mm x 6.35 mm	Meter		672	672
	Driving Piles	Meter		672	672
	Test Pile Metal Shells	Each		3	3
	Bridge Deck Latex Concrete Overlay 65 mm	Sq M	2043		2043
	Silicone Joint Sealer, 25 mm	Meter	108.3		108.3
	Bridge Deck Hydro-Scarification (15 mm)	Sq M	1624		1624
	Deck Slab Repair (Full Depth, Type I)	Sq M	20.0		20.0
	Deck Slab Repair (Full Depth, Type II)	Sq M	20.0		20.0

*Applied to top side and face of curb only

RJN GROUP, INC.
WHEATON, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS, AND TOTAL BILL OF MATERIAL
IL RTE. 132 LAND BRIDGE
FAP RTE 866 - SEC 4N-1
LAKE COUNTY

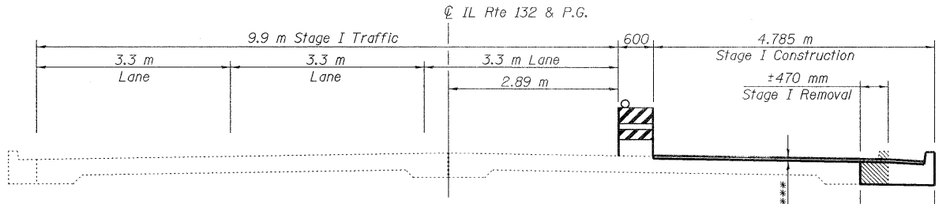
SN 049-D002 DRAWN BY BLB

DATE: 11-06-09 CHECKED BY WJV

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 866	4N-1	LAKE	165	72
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 3 of 22

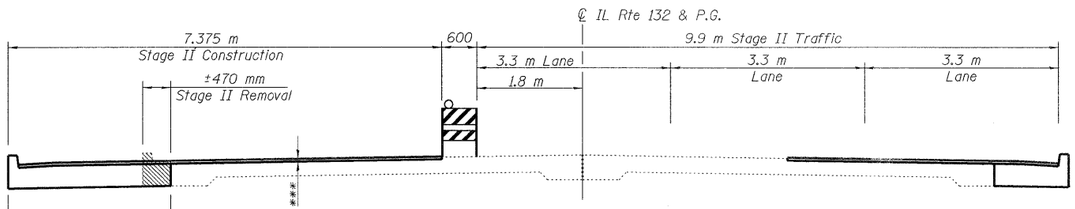
Contract No.: 60931



STAGE I CONSTRUCTION

(Looking East)

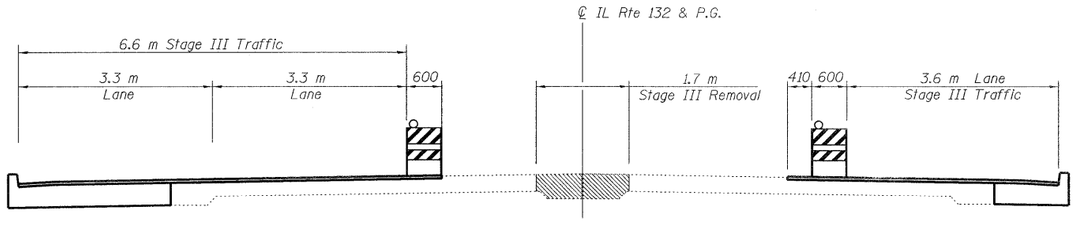
1.265 m from Sta. 1+091.44 (West End of Structure) to Sta. 1+181.200 Varies from 1.265 m @ Sta. 1+181.200 to 1.196 m @ Sta. 1+195.072 (East End of Structure)



2.765 m from Sta. 1+091.44 (West End of Structure) to Sta. 1+181.200 Varies from 2.765 m @ Sta. 1+181.200 to 2.488 m @ Sta. 1+195.072 (East End of Structure)

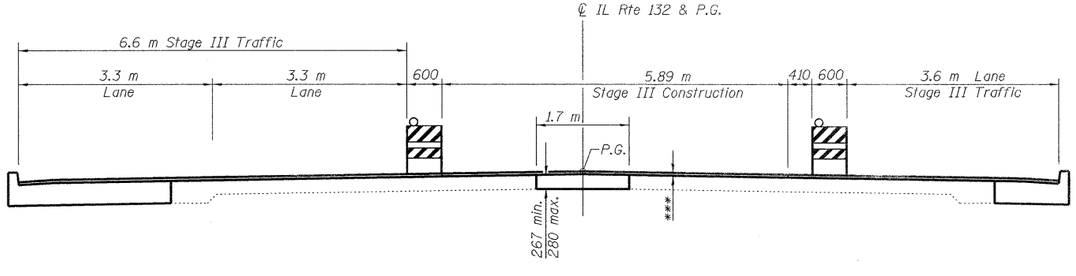
STAGE II CONSTRUCTION

(Looking East)



STAGE III REMOVAL

(Looking East)



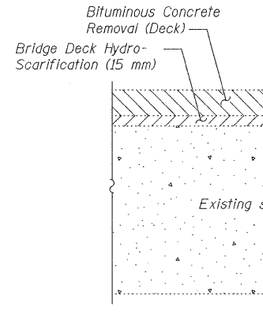
*** Remove 38 mm of HMA Overlay, Scarify 15 mm of Concrete Deck using Hydro-Scarification, Install a 65 mm Bridge Deck Latex Concrete Overlay

STAGE III CONSTRUCTION

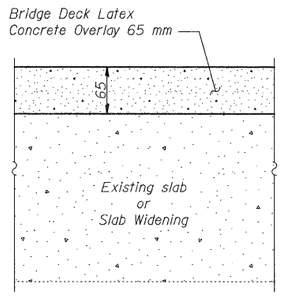
(Looking East)

SUGGESTED SEQUENCE OF CONSTRUCTION

1. Remove existing HMA overlay and scarify 15 mm of existing concrete deck slab.
2. Move traffic into Stage I configuration.
3. Remove existing curb & gutter from south side of structure and perform Full Depth Deck Slab Repair operations in Stage I work zone.
4. Proceed with Stage I Construction and Latex Concrete Overlay to the limits shown.
5. Move traffic into Stage II configuration.
6. Remove existing curb & gutter from north side of structure and perform Full Depth Deck Slab Repair operations in Stage II work zone.
7. Proceed with Stage II Construction and Concrete Overlay to the limits shown.
8. Move traffic into Stage III Configuration.
9. Perform remaining Deck Slab Repairs.
10. Proceed with Stage III Construction and the remaining Concrete Overlay.



SURFACE REMOVAL



OVERLAY

NOTES

See Roadway plans for Curb and Gutter Removal.

In Stage III Construction, remove existing slab and longitudinal reinforcing steel. Transverse reinforcing steel shall remain in place. Reinforcement remaining in place shall be straightened and blast-cleaned.

See Sheet 4 of 22 for surface removal quantities.

BILL OF MATERIAL

(Includes Approach Slabs)

ITEM	UNIT	QUANTITY
Bridge Deck Latex Concrete Overlay 65 mm	Sq M	2043

RJN GROUP

RJN GROUP, INC.
WHEATON, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE CONSTRUCTION DETAILS
IL RTE. 132 LAND BRIDGE
FAP RTE 866 - SEC 4N-1
LAKE COUNTY
STA. 1+143.3

SN 049-D002

DRAWN BY BLB

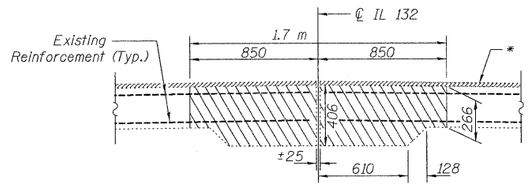
DATE: 11-06-09

CHECKED BY WJV

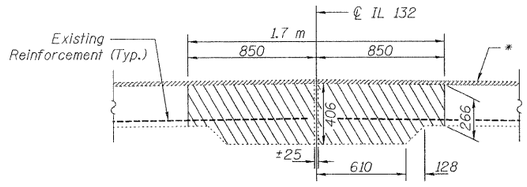
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 866	4N-1	LAKE	165	73
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 4 of 22

Contract No.: 60931

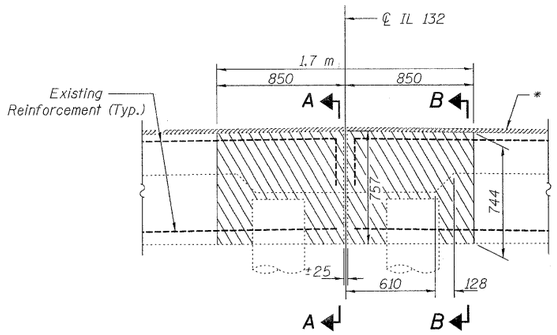


TYPICAL MIDSPAN

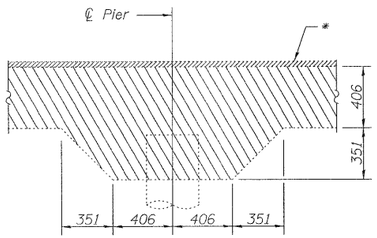


APPROCAH SPANS

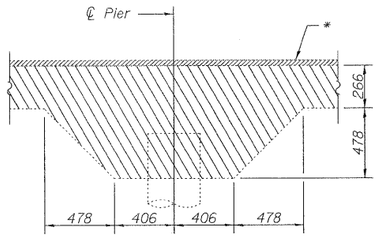
* Remove existing 38 mm bituminous overlay and scarify 15 mm of existing concrete deck using Hydro-Scarification



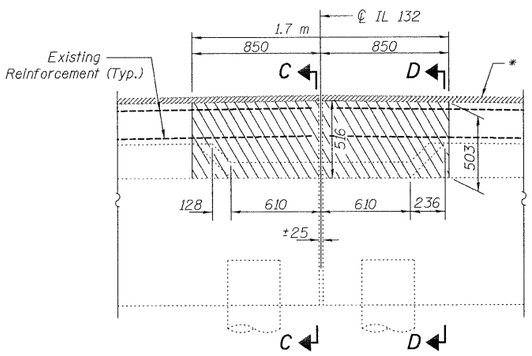
PIERS 2, 3, 5, 6, 8, 9, 11, 12, 14 & 15



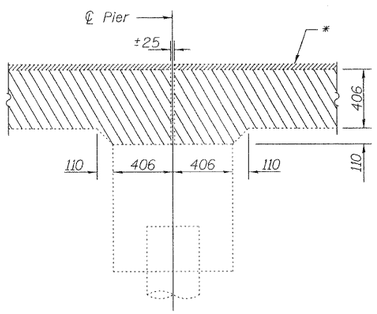
SECTION A-A



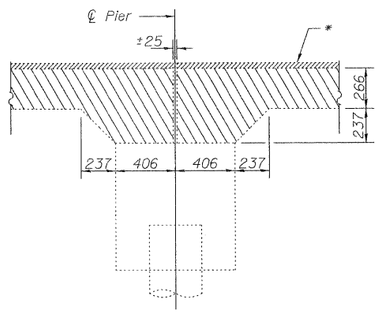
SECTION B-B



PIERS 1, 4, 7, 10, 13 & 16



SECTION C-C



SECTION D-D

NOTES

Hatched areas indicate Concrete Removal. Edges of Concrete Removal areas shall be sawcut 20 mm prior to the removal of the concrete.

Existing reinforcement bars extending into the removal area shall be blast cleaned to gray metal and straightened. Blast cleaning and straightening shall be included with the cost of Concrete Removal.

Existing reinforcement bars which have lost 25% of their original diameter shall be supplemented by new epoxy coated bars of the same diameter, spliced in place. Furnishing and placing supplemental epoxy coated reinforcement bars shall be included with the cost of Reinforcement Bars, Epoxy Coated.

Care shall be exercised by the Contractor during and following removal operations to ensure that the existing rebar remaining in place are not damaged. All protruding rebar shall be cleaned, straightened, and properly positioned prior to concrete placement. Any rebar damaged during concrete removal shall be repaired or replaced using an approved Bar Splicer or Mechanical System. Cost included with Concrete Removal.

BILL OF MATERIAL

(Includes Approach Slabs)

ITEM	UNIT	QUANTITY
Concrete Removal	Cu M	80.5
Hot-Mix Asphalt Surface Removal (Deck)	Sq M	1624
Bridge Deck Hydro-Scarification 15 mm	Sq M	1624

RJN GROUP

RJN GROUP, INC.
WHEATON, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CONCRETE REMOVAL DETAILS
IL RTE. 132 LAND BRIDGE
FAP RTE 866 - SEC 4N-1
LAKE COUNTY
STA. 1+143.3

SN 049-D002

DRAWN BY BLB

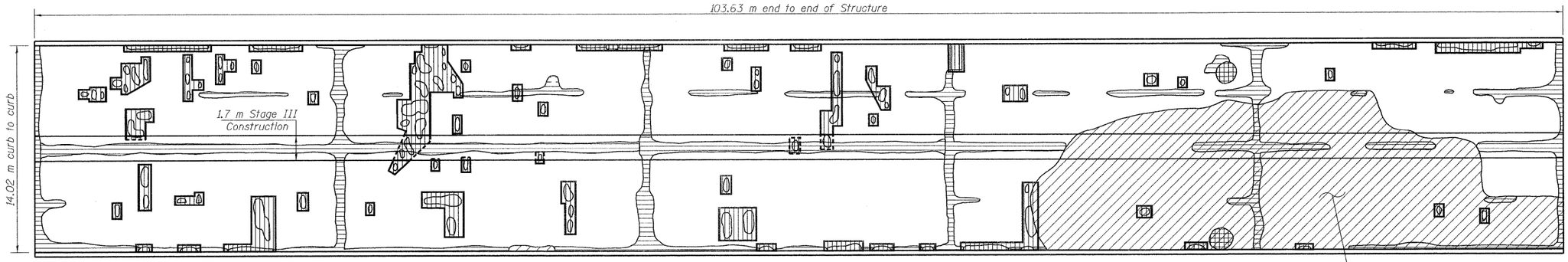
DATE: 11-06-09

CHECKED BY WJV

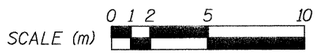
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 866	4N-1	LAKE	165	74
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 5 of 22

Contract No.: 60931



PLAN



N

NOTES

Repair areas outlined with dashed lines fall within the Stage III Removal area and are not included in the Deck Slab Repair quantity.

The Engineer shall record the location of the actual full-depth deck repair areas in order to document as-built conditions for future reference.

The quantities for Full Depth Deck Slab Repair are nominal quantities which have been added to the Contract in order to establish a unit price.

If the existing ground beneath the Full Depth Deck Slab Repair areas has settled, the Contractor shall add Porous Granular Backfill up to the bottom elevation of the slab. Cost of Porous Granular Backfill is included with Deck Slab Repair (Full Depth) of the appropriate type. For estimating purposes, the Contractor may assume an average settlement of 6-12".

Quantities for Partial Depth repair are provided for information only, to assist the Contractor in bidding.

PROPOSED REHABILITATION AREAS

FIELD OBSERVATIONS SUMMARY				LEGEND	
ITEM	UNIT	QUANT.	%	DECK PREPARATION AREA	DELAMINATION
TOTAL AREA	m^2	1453.0			SPALL
SHADE/DEBRIS	m^2	1.0			DEBOND
PARTIAL DEPTH REHAB	m^2	112.4	7.7	SHADE/DEBRIS	ASPHALT PATCH
PARTIAL DEPTH REHAB /BELOW STEEL	m^2	11.2	0.8		CONCRETE PATCH
FULL DEPTH DECK REPAIR	m^2	30.0	2.0		
TOTAL SAWCUT LENGTH	m	357	—		

INSPECTION DATE: 10/03
SURFACE TYPE: BITUMINOUS OVERLAY

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Deck Slab Repair (Full Depth, Type I)	Sq M	20.0
Deck Slab Repair (Full Depth, Type II)	Sq M	20.0

EARTH TECH

RJN GROUP
RJN GROUP, INC.
WHEATON, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BRIDGE DECK THERMOGRAPHIC SURVEY
IL RTE. 132 LAND BRIDGE
FAP RTE 866 - SEC 4N-1
LAKE COUNTY
STA. 1+143.3

SN 049-D002

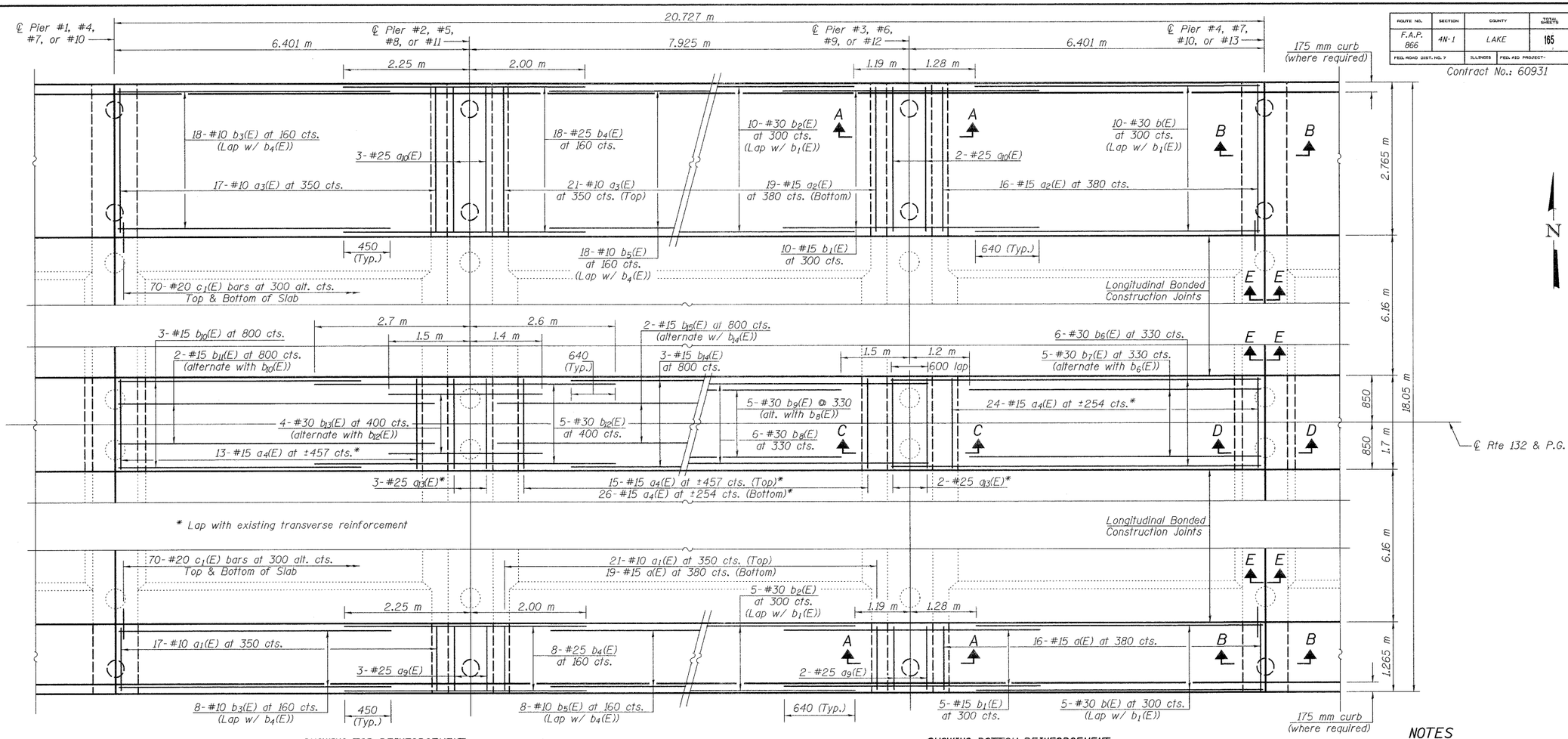
DRAWN BY BLB
CHECKED BY WJV

DATE: 11-06-09

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 866	4N-1	LAKE	165	75
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 6 of 22

Contract No.: 60931

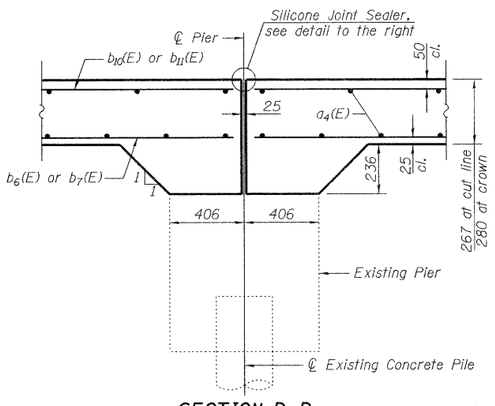


SHOWING TOP REINFORCEMENT

SHOWING BOTTOM REINFORCEMENT

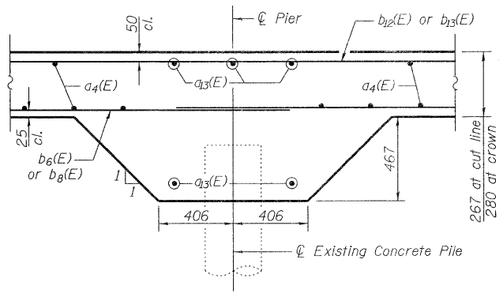
TYPICAL UNIT PLAN

Units #1 thru #4
(Symmetric)

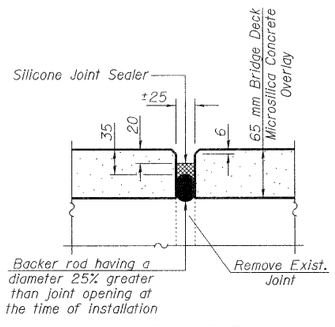


SECTION D-D

(Piers 4, 7, 10 & 13)

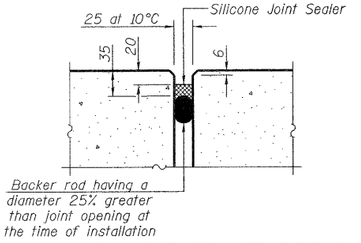


SECTION C-C



SECTION E-E

Removal of the existing joint shall be included with the cost of Silicone Joint Sealer



SILICONE JOINT SEALER DETAIL

NOTES

Cut bottom longitudinal reinforcement in field to miss piles.

See Sheets 9 and 10 of 22 for curb locations and reinforcement.

See Sheet 7 of 22 for Sections A-A and B-B.

See Sheet 8 of 22 for Bill of Material.

See Sheet 14 of 22 for additional reinforcement at Catch Basin openings.

Dead load deflection is negligible.

65 mm Latex Concrete Overlay omitted for clarity.

RJN GROUP

RJN GROUP, INC.
WHEATON, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

REINFORCEMENT DETAILS - I
IL RTE. 132 LAND BRIDGE
FAP RTE 866 - SEC 4N-1
LAKE COUNTY
STA. 1+143.3

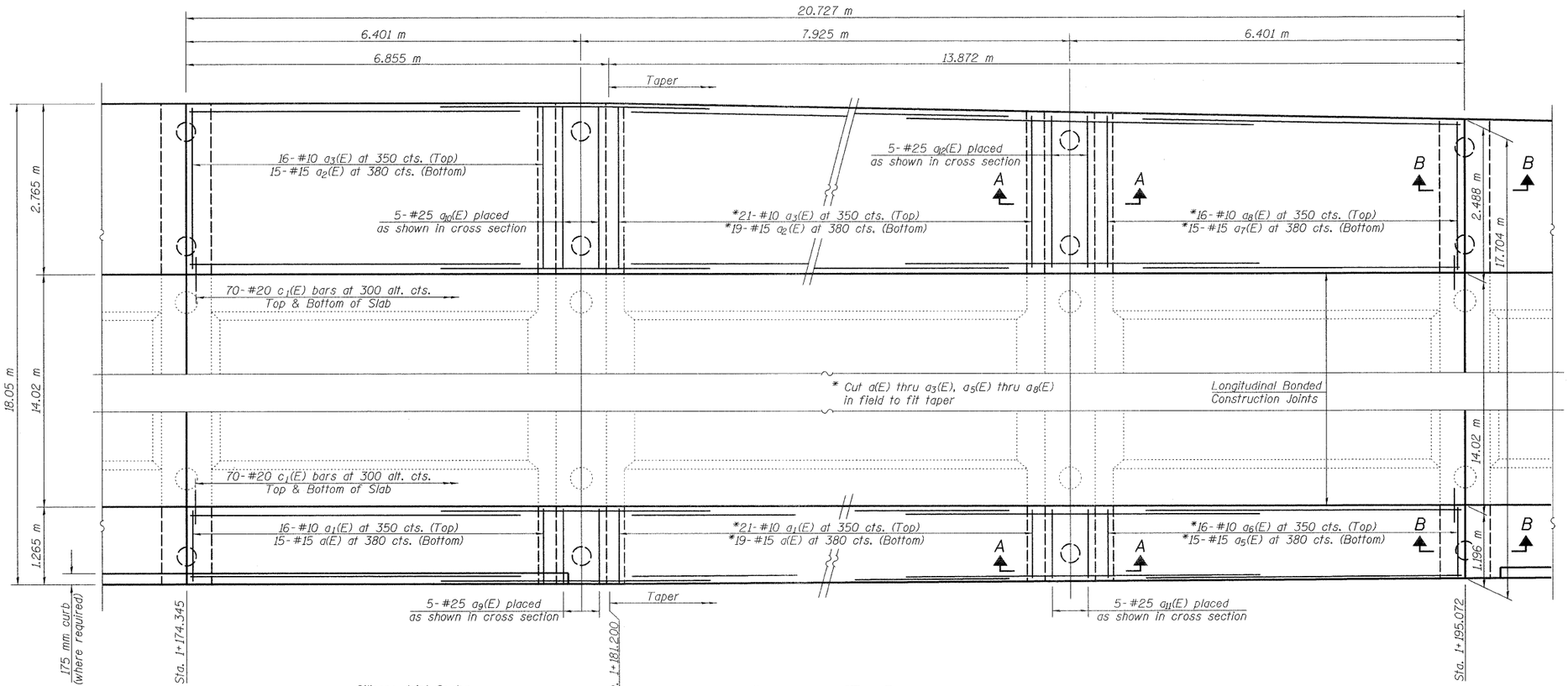
SN 049-D002 DRAWN BY BLB

DATE: 11-06-09 CHECKED BY WJV

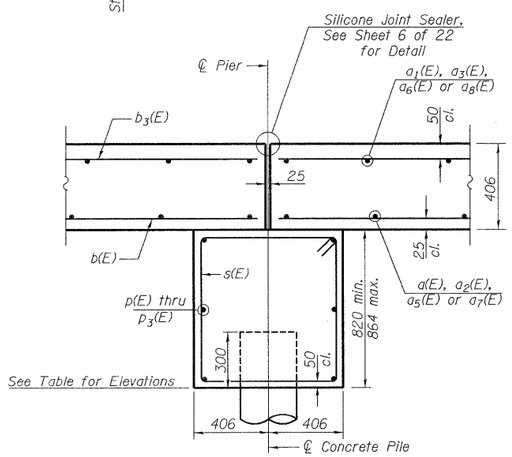
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 866	4N-1	LAKE	165	76
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 7 of 22

Contract No.: 60931



PLAN - UNIT #5

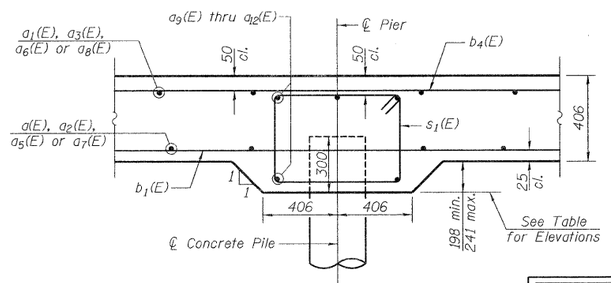


SECTION B-B

(Piers 1, 4, 7, 10, 13 & 16)

BOTTOM OF PIER ELEVATIONS

Pier No.	Elevation
2	240.500
3	240.432
4	239.757
5	240.326
6	240.273
7	239.653
8	240.277
9	240.283
10	239.683
11	240.351
12	240.406
13	239.829
14	240.491
15	240.540



SECTION A-A

(Piers 2, 3, 5, 6, 8, 9, 11, 12, 14 & 15)

NOTES

Cut bottom longitudinal reinforcement in field to miss piles.

See Typical Unit Plan for longitudinal reinforcement and Stage III reinforcement.

See Sheets 9 and 10 of 22 for curb locations and reinforcement.

See Sheet 8 of 22 for Bill of Material.

Dead Load Deflection is negligible.

65 mm Latex Concrete Overlay omitted for clarity.

RJN GROUP

RJN GROUP, INC.
WHEATON, IL 60187

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
REINFORCEMENT DETAILS - II
IL RTE. 132 LAND BRIDGE
FAP RTE 866 - SEC 4N-1
LAKE COUNTY
STA. 1+143.3

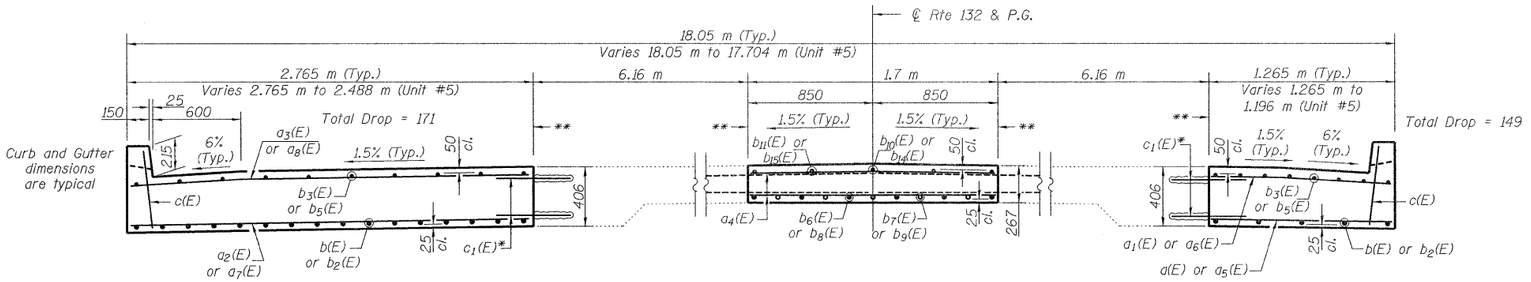
SN 049-D002 DRAWN BY BLB

DATE: 11-06-09 CHECKED BY WJV

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 866	4N-1	LAKE	165	77
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 8 of 22

Contract No.: 60931

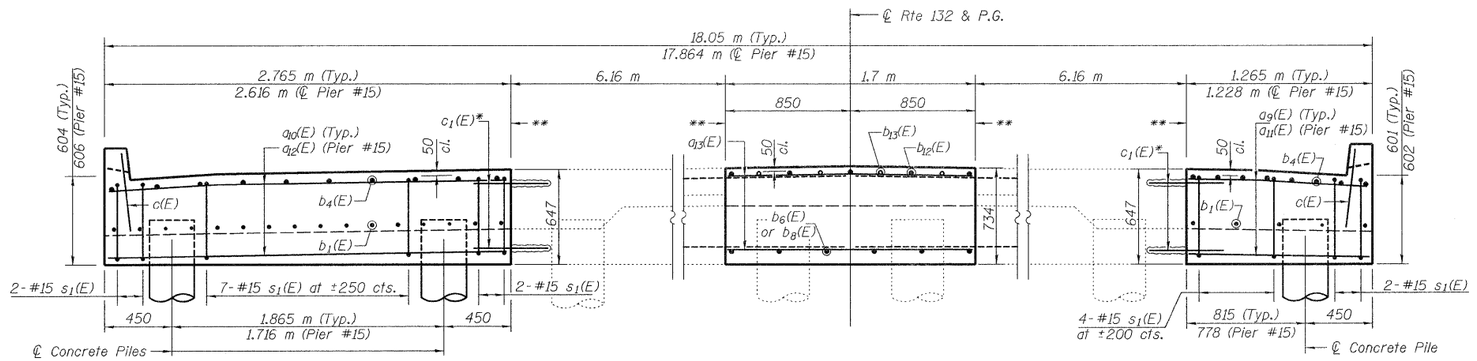


CROSS SECTION AT MIDSPAN

Looking East

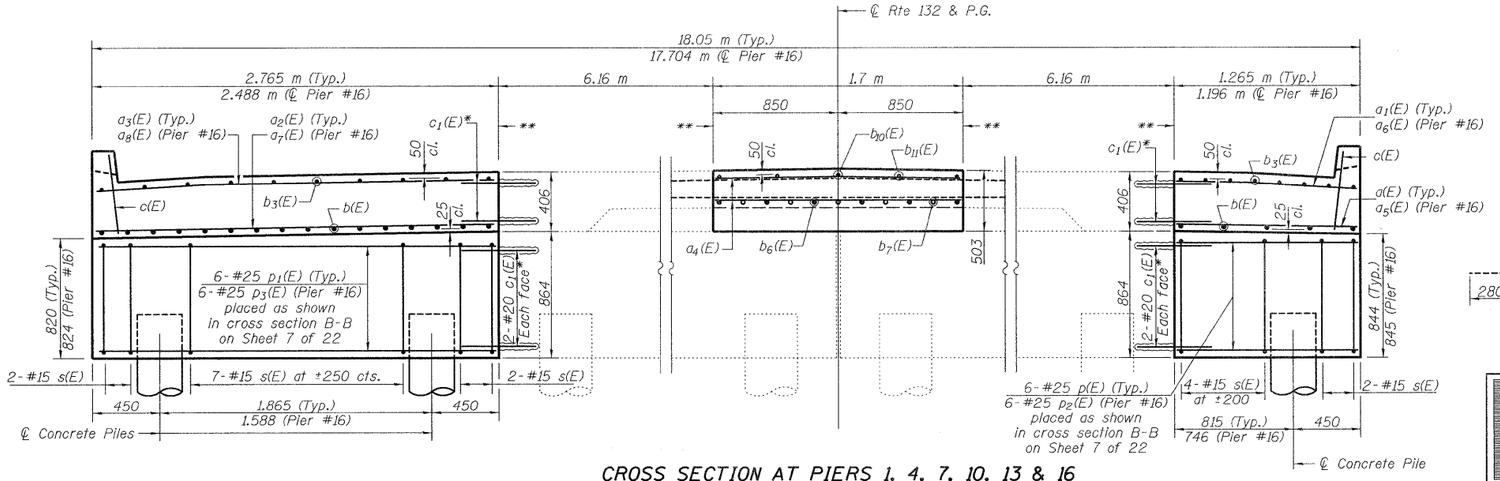
* Drill and grout 300 mm deep into existing slab. See Section 584 of the Standard Specifications.

** Longitudinal Bonded Construction Joint In accordance with Article 503.09 (b) of the Standard Specifications



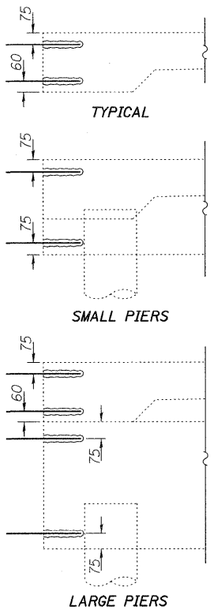
CROSS SECTION AT PIERS 2, 3, 5, 6, 8, 9, 11, 12, 14 & 15

Looking East

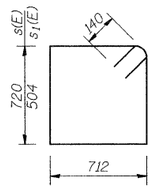


CROSS SECTION AT PIERS 1, 4, 7, 10, 13 & 16

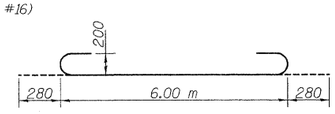
Looking East



c1(E) PLACEMENT LOCATIONS



BAR s(E) & s1(E)



BAR b16(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
a(E)	215	#15	1.17	
a1(E)	257	#10	1.17	
a2(E)	215	#15	2.67	
a3(E)	257	#10	2.67	
a4(E)	575	#15	1.60	
a5(E)	15	#15	1.12	
a6(E)	16	#10	1.12	
a7(E)	15	#15	2.51	
a8(E)	16	#10	2.51	
a9(E)	45	#25	1.17	
a10(E)	45	#25	2.67	
a11(E)	5	#25	1.13	
a12(E)	5	#25	2.52	
a13(E)	50	#25	1.60	
a14(E)	23	#15	1.10	
b(E)	150	#30	5.07	
b1(E)	150	#15	3.75	
b2(E)	75	#30	5.55	
b3(E)	260	#10	4.55	
b4(E)	268	#25	4.25	
b5(E)	130	#10	4.83	
b6(E)	60	#30	6.65	
b7(E)	50	#30	5.15	
b8(E)	30	#30	8.53	
b9(E)	25	#30	4.93	
b10(E)	30	#15	4.29	
b11(E)	20	#15	5.49	
b12(E)	50	#30	5.30	
b13(E)	40	#30	2.90	
b14(E)	15	#15	4.01	
b15(E)	10	#15	6.41	
b17(E)	4	#15	0.90	
c(E)	474	#20	0.50	
c1(E)	1532	#20	0.60	
p(E)	30	#25	1.17	
p1(E)	30	#25	2.67	
p2(E)	6	#25	1.10	
p3(E)	6	#25	2.39	
s(E)	102	#15	3.15	
s1(E)	170	#15	2.72	
Reinforcement Bars, Epoxy Coated		kg	30,840	
Concrete Superstructure		Cu M	257.8	

NOTES

65 mm Latex Concrete Overlay omitted for clarity. Profile Grade is located at the top of the overlay at the roadway centerline.

Bend top transverse reinforcement located at the 6% gutter slope in field to maintain required clearance.

See Section A-A on Sheet 11 of 22 for depressed curb dimensions.

RJN GROUP

RJN GROUP, INC.
WHEATON, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
REINFORCEMENT DETAILS - III
IL RTE. 132 LAND BRIDGE
FAP RTE 866 - SEC 4N-1
LAKE COUNTY
STA. 1+143.3

SN 049-D002 DRAWN BY BLB

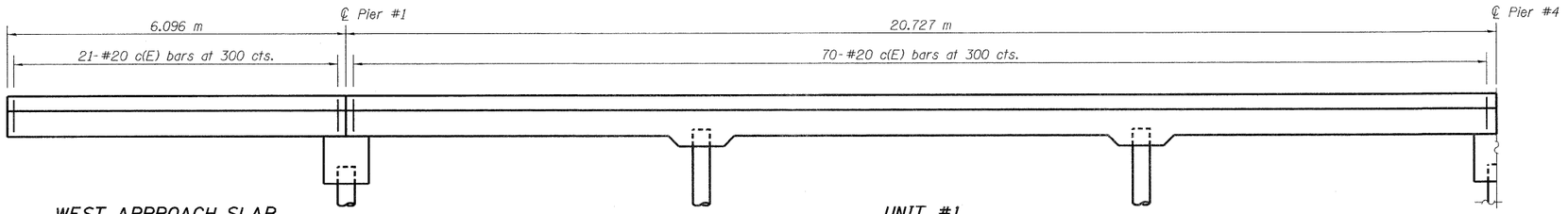
DATE: 11-06-09 CHECKED BY WJV

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 866	4N-1	LAKE	165	78
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

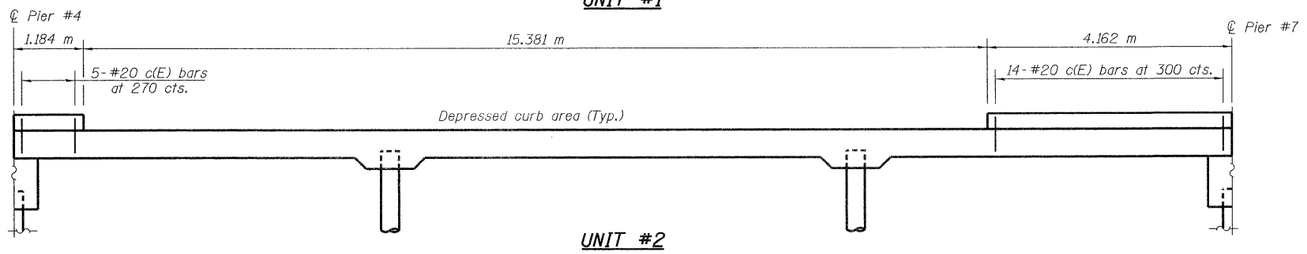
SHEET NO. 9 of 22

Contract No.: 60931

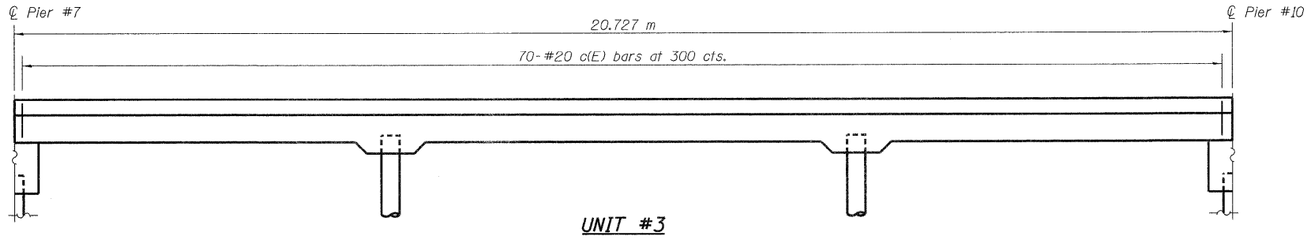
WEST APPROACH SLAB



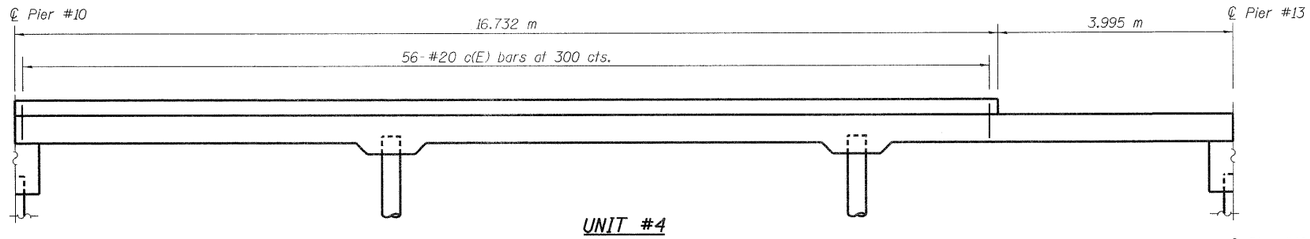
UNIT #1



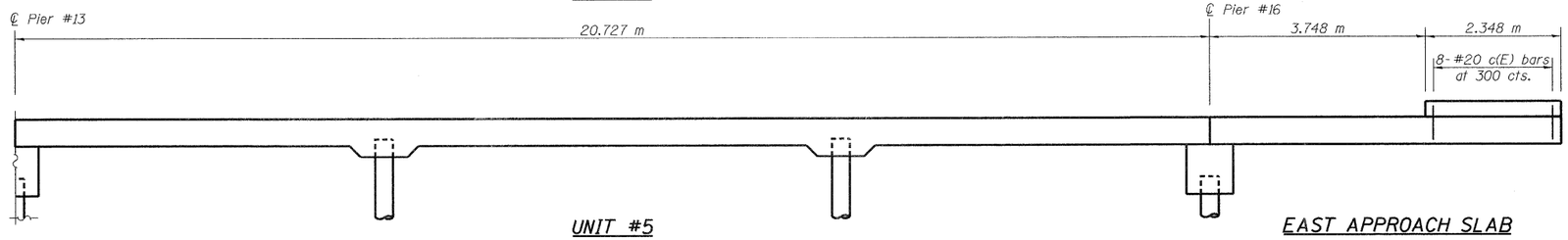
UNIT #2



UNIT #3



UNIT #4



UNIT #5

EAST APPROACH SLAB

NOTES

All curb elevations are looking North.

See Sheets 8, 11 and 12 of 22 for Bill of Material.

RJN GROUP

RJN GROUP, INC.
WHEATON, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CURB DETAILS - NORTH SIDE
IL RTE. 132 LAND BRIDGE
FAP RTE 866 - SEC 4N-1
LAKE COUNTY
STA. 1+143.3

SN 049-D002

DRAWN BY BLB

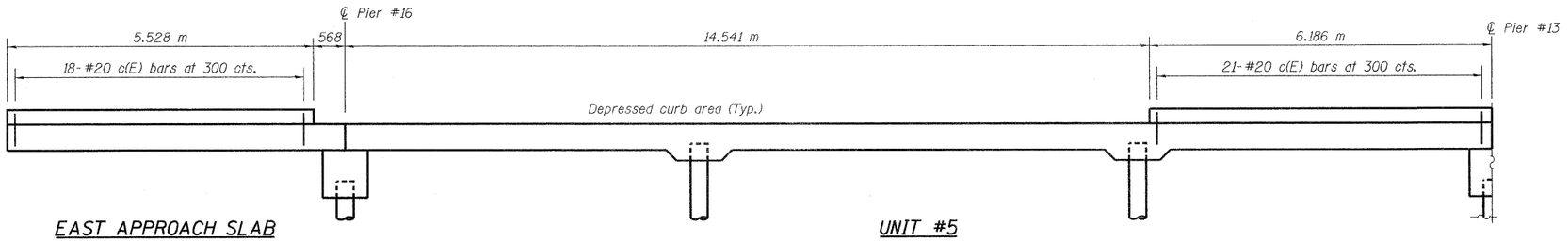
DATE: 11-06-09

CHECKED BY WJV

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 866	4N-1	LAKE	165	79
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

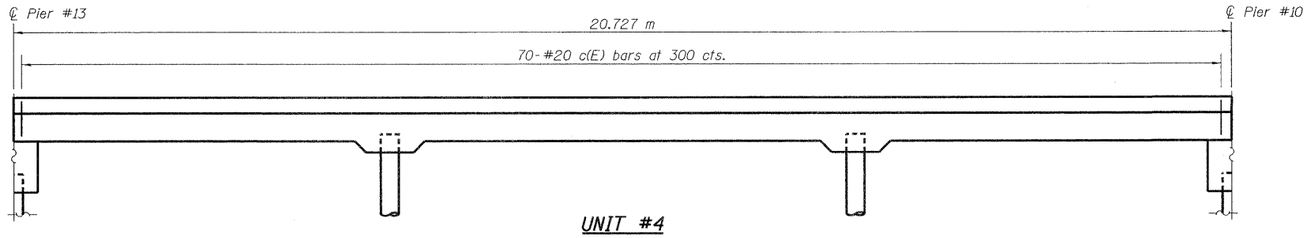
SHEET NO. 10 of 22

Contract No.: 60931

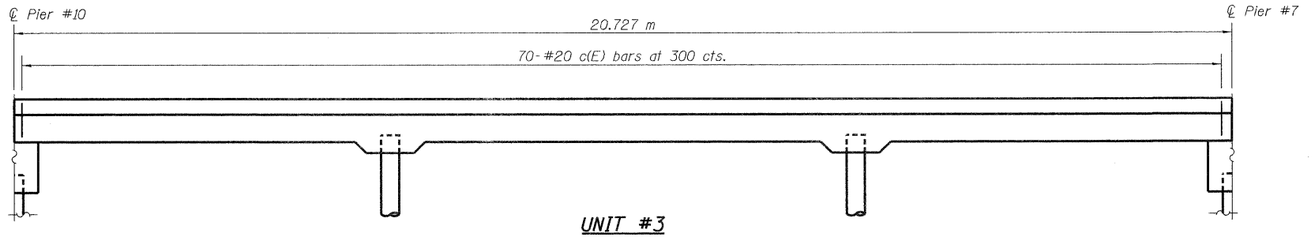


EAST APPROACH SLAB

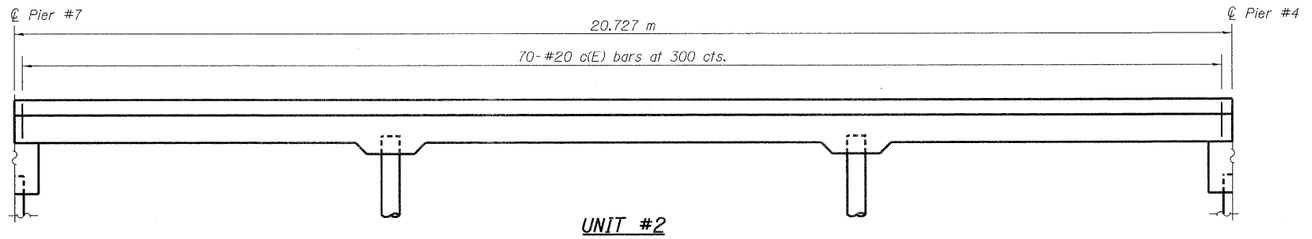
UNIT #5



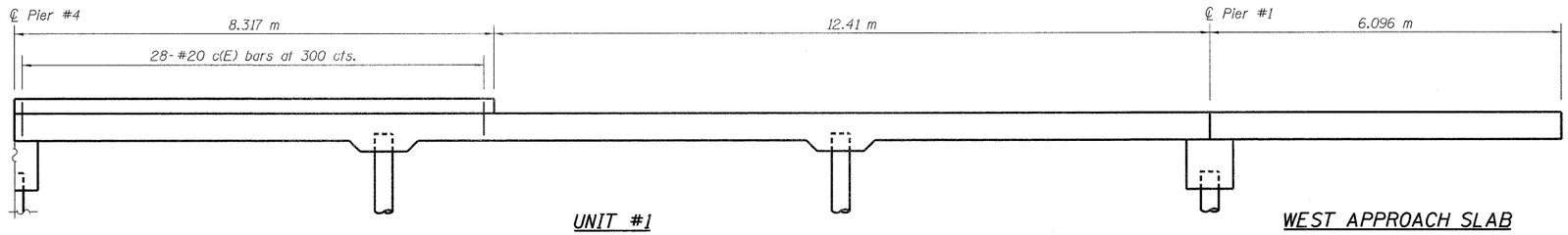
UNIT #4



UNIT #3



UNIT #2



UNIT #1

WEST APPROACH SLAB

NOTES

All curb elevations are looking South.

See Sheets 8, 11 and 12 of 22 for Bill of Material.

RJN GROUP, INC.
WHEATON, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CURB DETAILS - SOUTH SIDE
IL RTE. 132 LAND BRIDGE
FAP RTE 866 - SEC 4N-1
LAKE COUNTY
STA. 1+143.3

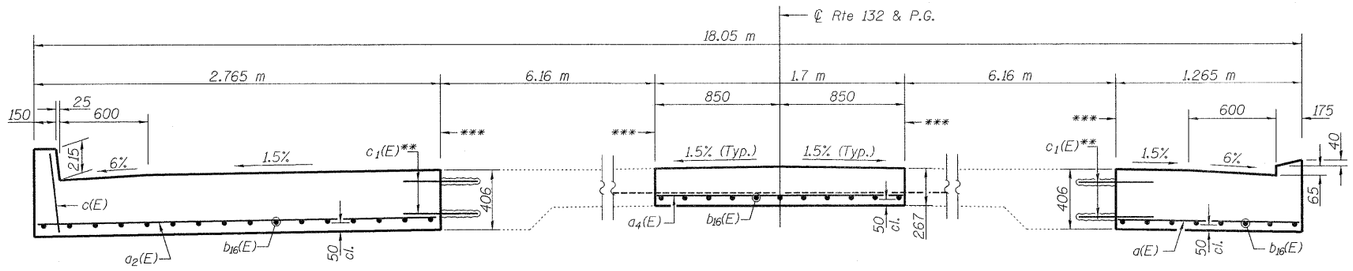
SN 049-D002 DRAWN BY BLB

DATE: 11-06-09 CHECKED BY WJV

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 866	4N-1	LAKE	165	80
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 11 of 22

Contract No.: 60931



** Drill and grout 300 mm deep into existing slab. See Section 584 of the Standard Specifications.

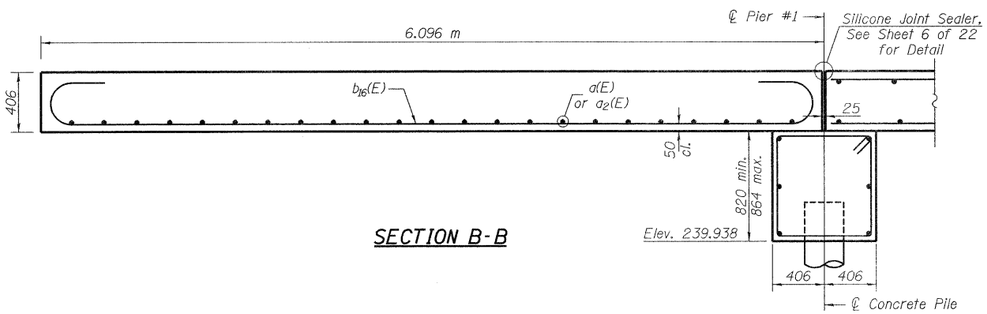
*** Longitudinal Bonded Construction Joint In accordance with Article 503.09 (b) of the Standard Specifications

SECTION A-A

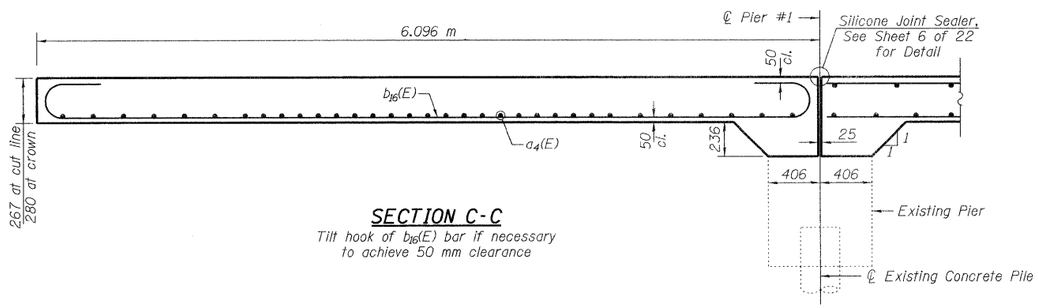
Looking East

Showing Depressed Curb and Gutter (Typ.)

Depressed curb locations shown on Sheets 9 and 10 of 22.

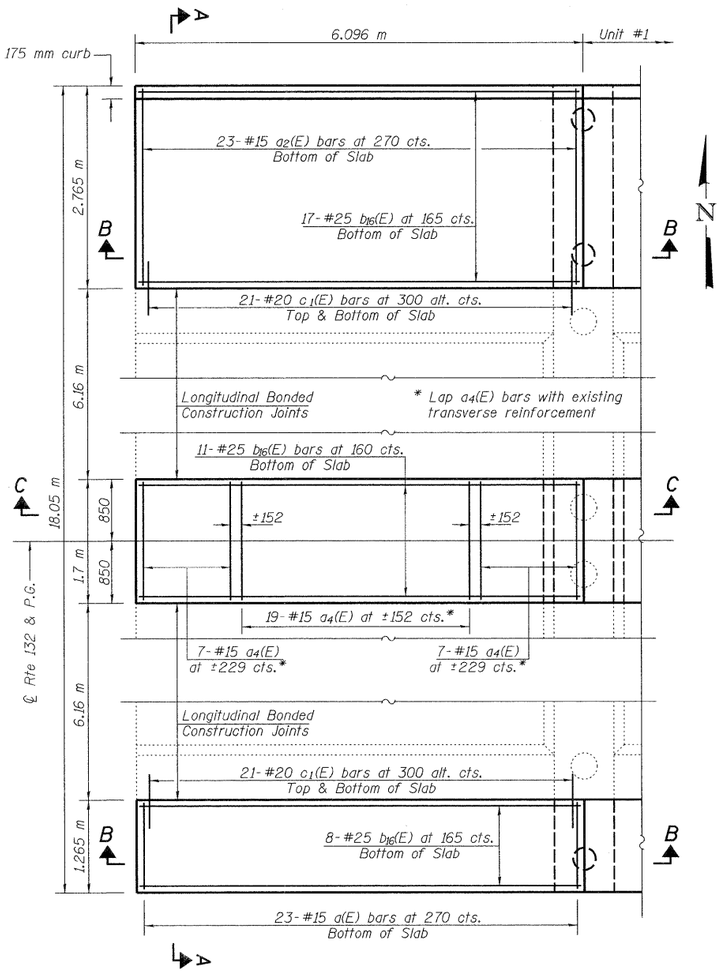


SECTION B-B



SECTION C-C

Tilt hook of $b_{16}(E)$ bar if necessary to achieve 50 mm clearance



PLAN - WEST APPROACH SLAB

WEST APPROACH BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
a(E)	23	#15	1.17	
$a_2(E)$	23	#15	2.67	
$a_4(E)$	33	#15	1.60	
$b_{16}(E)$	36	#25	6.56	
c(E)	21	#20	0.50	
$c_1(E)$	42	#20	0.60	
Reinforcement Bars, Epoxy Coated			kg	1240
Concrete Superstructure			Cu M	13.0

NOTES

65 mm Latex Concrete Overlay omitted for clarity. Profile Grade is located at the top of overlay at the roadway centerline.

See Sheet 3 of 22 for quantity of Latex Concrete Overlay.

See Sheet 4 of 22 for quantities of HMA Surface Removal (Deck), Bridge Deck Hydro-Scarification, and Concrete Removal.

RJN GROUP

RJN GROUP, INC.
WHEATON, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

WEST APPROACH SLAB DETAILS
IL RTE. 132 LAND BRIDGE
FAP RTE 866 - SEC 4N-1
LAKE COUNTY
STA. 1+143.3

SN 049-D002

DRAWN BY BLB

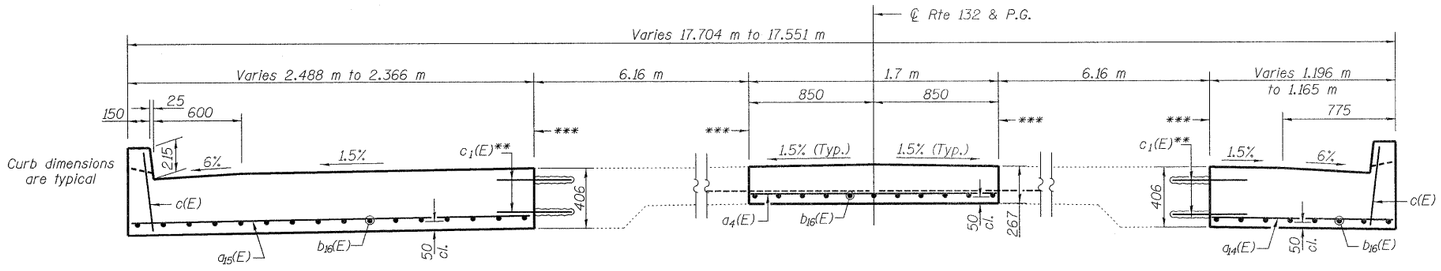
DATE: 11-06-09

CHECKED BY WJV

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 866	4N-1	LAKE	165	81
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 12 of 22

Contract No.: 60931

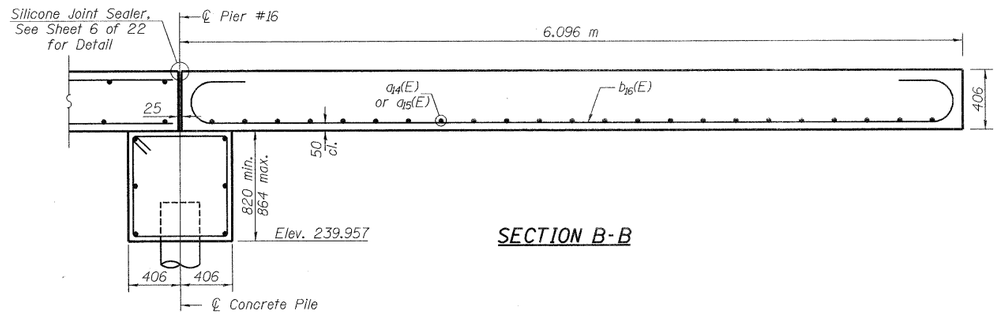


SECTION A-A

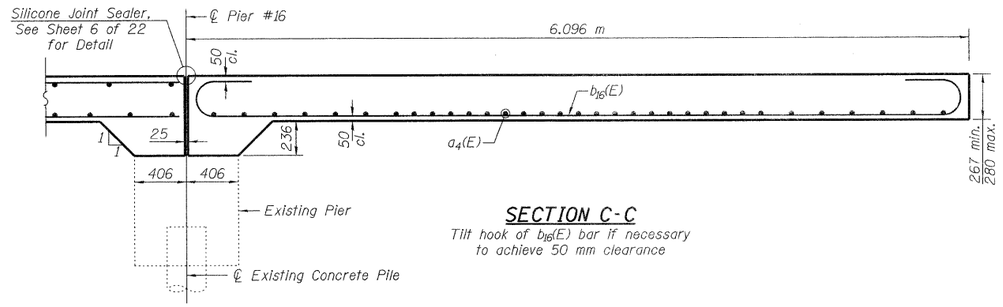
Looking East

** Drill and grout 300 mm deep into existing slab. See Section 584 of the Standard Specifications.

*** Longitudinal Bonded Construction Joint In accordance with Article 503.09 (b) of the Standard Specifications

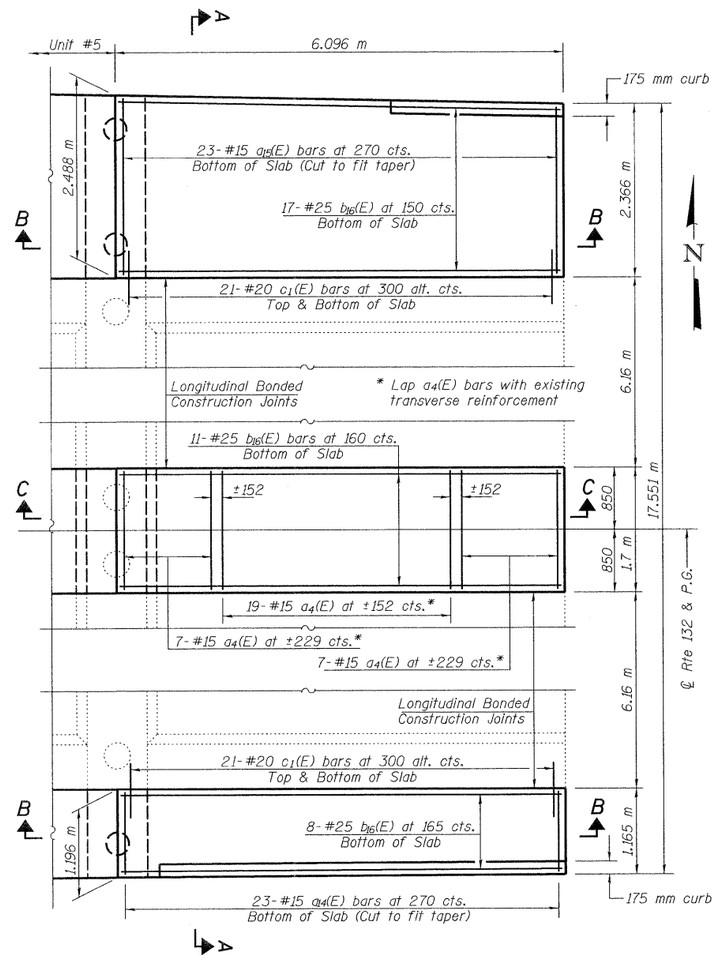


SECTION B-B



SECTION C-C

Tilt hook of $b_{16}(E)$ bar if necessary to achieve 50 mm clearance



PLAN - EAST APPROACH SLAB

EAST APPROACH BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
$a_4(E)$	33	#15	1.60	—
$a_{14}(E)$	23	#15	1.10	—
$a_{15}(E)$	23	#15	2.39	—
$b_{16}(E)$	36	#25	6.56	⊂—⊃
$c(E)$	26	#20	0.50	—
$c_1(E)$	42	#20	0.60	—
Reinforcement Bars, Epoxy Coated			kg	1230
Concrete Superstructure			Cu M	12.0

NOTES

65 mm Latex Concrete Overlay omitted for clarity. Profile Grade is located at the top of overlay at the roadway centerline.

See Sheet 3 of 22 for quantity of Latex Concrete Overlay.

See Sheet 4 of 22 for quantities of HMA Surface Removal (Deck), Bridge Deck Hydro-Scarification, and Concrete Removal.

RJN GROUP

RJN GROUP, INC.
WHEATON, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

EAST APPROACH SLAB DETAILS
IL RTE. 132 LAND BRIDGE
FAP RTE 866 - SEC 4N-1
LAKE COUNTY
STA. 1+143.3

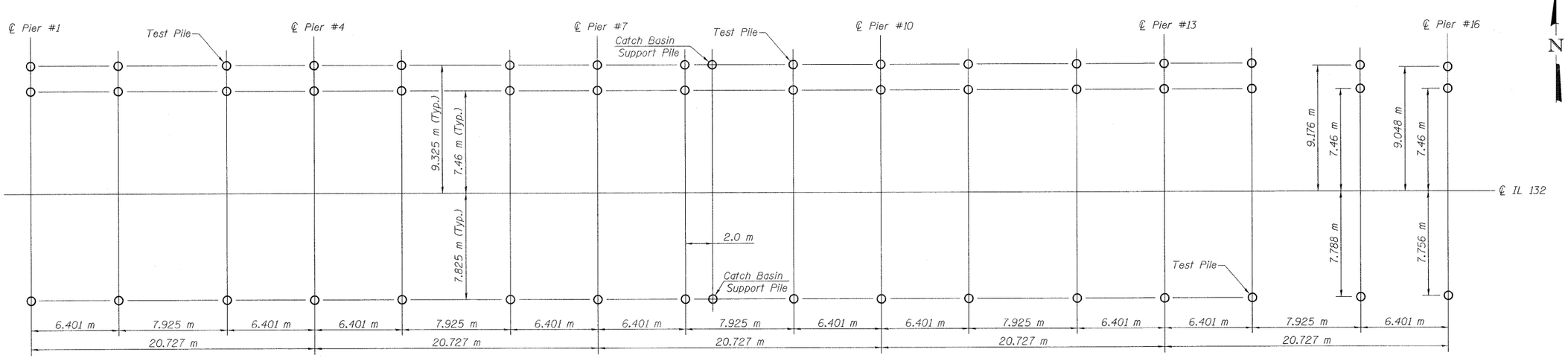
SN 049-D002 DRAWN BY BLB

DATE: 11-06-09 CHECKED BY WJV

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 866	4N-1	LAKE	165	82
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT=		

SHEET NO. 13 of 22

Contract No.: 60931



N

PILE LAYOUT PLAN

PILE INFORMATION CHART (TYPICAL PILES)

Pier	Stage I Pile (1 Pile)			Stage II Piles (2 Piles)			Total Pile Length (m)
	Allowable Resistance Available (kN)	Nominal Required Bearing (kN)	Est. Length (m)	Allowable Resistance Available (kN)	Nominal Required Bearing (kN)	Est. Length (m)	
1	285	855	14.0	285	855	14.0	42.0
2	310	930	14.5	310	930	15.0	44.5
3	310	930	14.5	310	930	*15.0	29.5
4	285	855	14.0	285	855	14.0	42.0
5	310	930	14.5	310	930	14.0	42.5
6	310	930	14.5	310	930	14.0	42.5
7	285	855	14.0	285	855	13.0	40.0
8	310	930	14.5	310	930	16.5	47.5
9	310	930	12.0	310	930	*16.5	28.5
10	285	855	11.0	285	855	15.5	42.0
11	310	930	12.0	310	930	16.5	45.0
12	310	930	12.0	310	930	14.0	40.0
13	285	855	13.0	285	855	15.0	43.0
14	310	930	**14.0	310	930	16.0	32.0
15	310	930	14.0	310	930	16.0	46.0
16	285	855	13.0	285	855	15.0	43.0
Total Length (m)			201.5			448.5	**650.0**

*One pile required, the other pile is a test pile.
**This pile is a test pile.

PILE INFORMATION CHART (CATCH BASIN SUPPORT PILES)

Catch Basin Support Piles	Stage I Pile (1 Pile)			Stage II Pile (1 Pile)			Total Pile Length (m)
	Allowable Resistance Available (kN)	Nominal Required Bearing (kN)	Est. Length (m)	Allowable Resistance Available (kN)	Nominal Required Bearing (kN)	Est. Length (m)	
2 m East of Pier #8	160	480	11.0	160	480	11.0	**22.0**

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Furnishing Metal Shell Piles 305 mm x 6.35 mm	Meter	672
Driving Piles	Meter	672
Test Pile Metal Shells	Each	3

NOTES

Holes shall be precored for concrete piles, to an elevation below the unsuitable soil (refer to soil borings for depths). If oversize holes are drilled, the void space outside of the pile shall be filled with dry loose sand. This work will not be paid for separately but shall be considered as included in the unit prices bid for the pay items involved.

See sheet 13A of 22 for Metal Shell Pile details.

RJN GROUP

RJN GROUP, INC.
WHEATON, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
METAL SHELL PILES
IL RTE. 132 LAND BRIDGE
FAP RTE 866 - SEC 4N-1
LAKE COUNTY
STA. 1+143.3

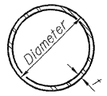
SN 049-D002 DRAWN BY BLB

DATE: 11-06-09 CHECKED BY WJV

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 866	4N-1	LAKE	165	83
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

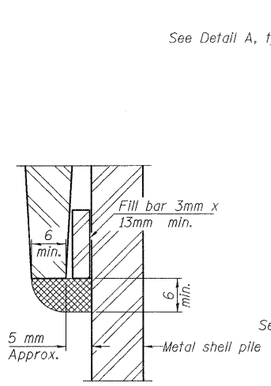
SHEET NO. 13A of 22

Contract No.: 60931

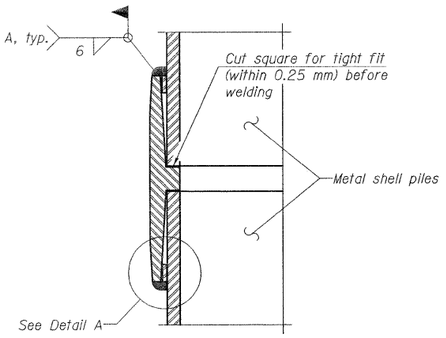


METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t (mm)	Weight per meter (kg/m)	Inside volume (m3/m)
PP12	4.55	33.63	0.0687
PP12	6.35	46.68	0.0670
PP14	6.35	54.63	0.0923
PP14	7.92	67.87	0.0906

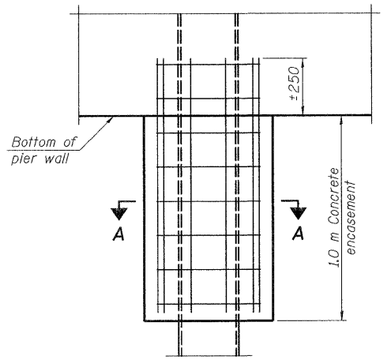


DETAIL A

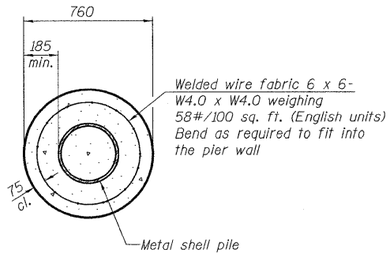


Notes:
The 3mm x 13mm min. fill bar may be constructed of 2 bars with a 3mm max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.

WELDED COMMERCIAL SPLICE



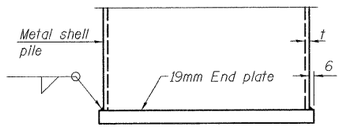
ELEVATION



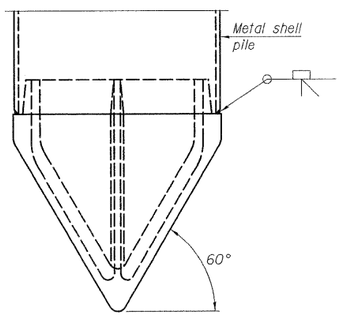
SECTION A-A

Note:
Forms for encasement may be omitted when soil conditions permit.

CONCRETE ENCASEMENT



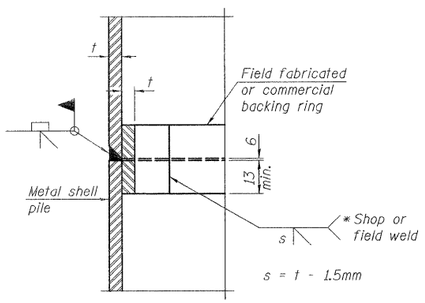
END PLATE ATTACHMENT



Note A:
When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld.

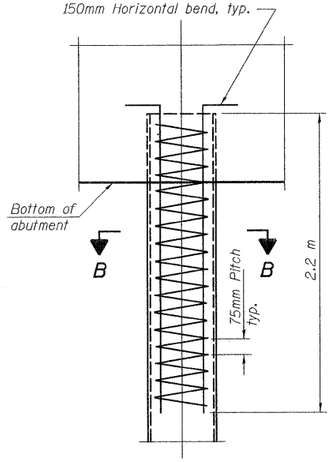
METAL SHELL PILE SHOE ATTACHMENT

(See Note A)

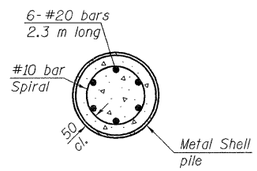


COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION



SECTION B-B

METAL SHELL REINFORCEMENT

Note:
The metal shell piles shall be according to ASTM A 252 Grade 3.
All dimensions are in millimeters (mm) unless noted.

RJN GROUP
RJN GROUP, INC.
WHEATON, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
METAL SHELL PILE DETAILS
IL RTE. 132 LAND BRIDGE
FAP RTE 866 - SEC 4N-1
LAKE COUNTY
STA. 1+143.3

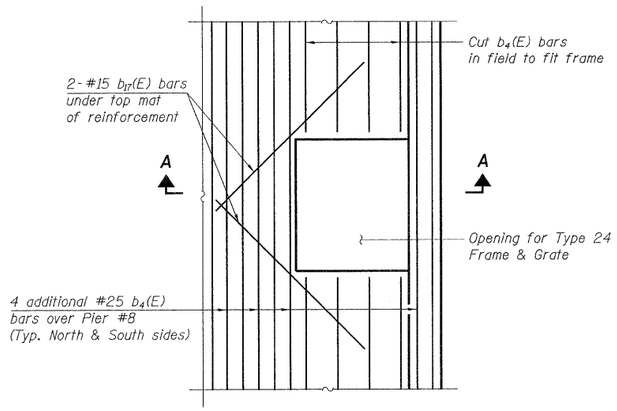
SN 049-D002 DRAWN BY BLB

DATE: 11-06-09 CHECKED BY WJV

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 866	4N-1	LAKE	165	84
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

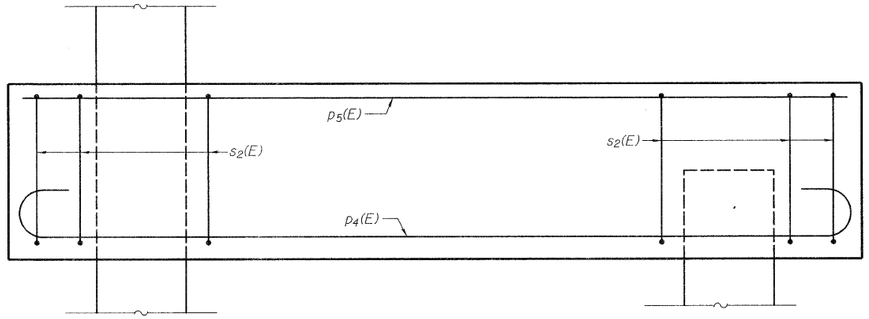
SHEET NO. 14 of 22

Contract No.: 60931



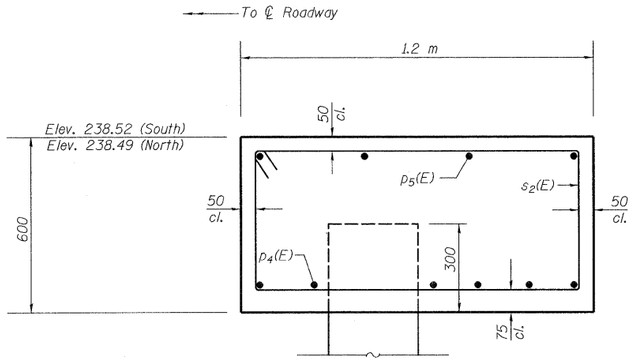
PLAN VIEW AT CATCH BASIN

(Showing top reinforcement only)



ELEVATION OF CATCH BASIN SUPPORT

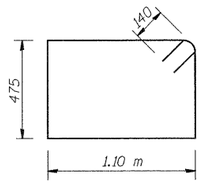
Looking North



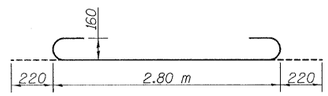
CROSS SECTION OF CATCH BASIN SUPPORT

PLAN OF CATCH BASIN SUPPORT

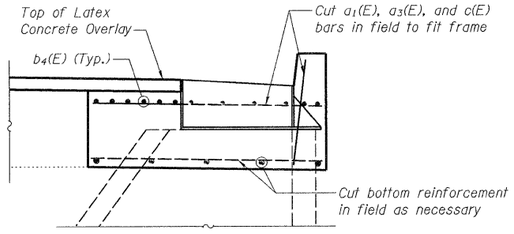
North support shown. South support similar but mirrored
(See plan for location of catch basins, 2 total)



BAR $s_2(E)$



BAR $b_4(E)$



SECTION A-A

NOTE:
See Bill of Material on Sheet 8 of 22
for additional reinforcement at openings.

CATCH BASIN SUPPORT BILL OF MATERIAL

$p_4(E)$	12	#20	3.24	⊂⟶
$p_5(E)$	8	#20	2.80	⟶
$s_2(E)$	26	#15	3.43	▭
Reinforcement Bars, Epoxy Coated			kg	290
Concrete Structures			Cu M	4.1
Structure Excavation			Cu M	49.2

Reinforcement bars designated (E) shall be epoxy coated.

RJN GROUP
RJN GROUP, INC.
WHEATON, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CATCH BASIN SUPPORT DETAILS
IL RTE. 132 LAND BRIDGE
FAP RTE 866 - SEC 4N-1
LAKE COUNTY
STA. 1+143.3

SN 049-D002 DRAWN BY BLB

DATE: 11-06-09 CHECKED BY WJV

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 866	4N-1	LAKE	165	85
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 15 of 22

Contract No.: 60931

BRIDGE FOUNDATION SOIL BORING LOG
midwest engineering services, inc.

Route: FAP 866
Section: 4N-1
County: Lake
Structure No.
Station: 1+100
Offset: 14.9 m South

Boring: S-1
Page: 1 of 2
Date of Boring: September 23, 2003
Drilled By: Waukesha
Checked By: MB
MES Project No: 16-33011

Ground Water Elevation:
when drilling: 2.5 Ft
at completion: DRY

Ground Surface Elevation: 791.5 Ft.

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	
			22	2" Dark brown to black Silty CLAY, Topsoil
	4 4 5		20	Dark brown to black Silty CLAY with Sand and Gravel, Fill Poor Recovery @ 2.5-4'
5	3 3 3		24	Brown and gray mottled Silty CLAY
	6 6 3	1.7B	16	
10	2 2 4	1.3B	17	Gray Silty CLAY Fine to medium sand seam @ 8.5 ft.
15	3 4 5	1.7B	17	
	4 4 4	2.9B	14	Gray SILT
20	3 4 5	1.2B	16	
	6 5 5	1.5P	15	Gray Silty CLAY, little Sand and Gravel
25	5 8 8		17	Poor Recovery @ 25-26.5'
	5 6 8	1.8B	18	Gray Silty CLAY, little Sand and Gravel
30	3 5 6	3.5B	17	
35	4 6 8	3.3B	17	
40	4 5 10	2.3B	14	
45	4 6 8	2.9B	16	
50	5 5 8	2.5B	17	

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)

Type Failure
Qu test
B-Bulge
S-Shear
P-Penetrometer

BRIDGE FOUNDATION SOIL BORING LOG
midwest engineering services, inc.

Route: FAP 866
Section: 4N-1
County: Lake
Structure No.
Station: 1+100
Offset: 14.9 m South

Boring: S-1
Page: 2 of 2
Date of Boring: September 23, 2003
Drilled By: Waukesha
Checked By: MB
MES Project No: 16-33011

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	
55	5 6 12	2.5B	16	Gray Silty CLAY, little Sand and Gravel

END OF BORING AT 56.5 FEET

NOTES:
1. Auger Sample collected at 1 to 2.5 ft.
2. Shelby Tube sample collected at 12.5 to 14 ft

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)

Type Failure
Qu test
B-Bulge
S-Shear
P-Penetrometer

RJN GROUP
RJN GROUP, INC.
WHEATON, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BORINGS - 1
IL RTE. 132 LAND BRIDGE
FAP RTE 866 - SEC 4N-1
LAKE COUNTY
STA. 1+143.3

SN 049-D002 DRAWN BY BLB
DATE: 11-06-09 CHECKED BY WJV

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 866	4N-1	LAKE	165	86
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 16 of 22

Contract No.: 60931

BRIDGE FOUNDATION SOIL BORING LOG

midwest engineering services, inc.

Route: FAP 866
Section: 4N-1
County: Lake
Structure No.:
Station: 1+119
Offset: 12.2 m South

Boring: S-2
Page: 1 of 2
Date of Boring: September 22, 2003
Drilled By: Waukesha
Checked By: MB
MES Project No: 16-33011

Ground Water Elevation:
when drilling: 12.5 Ft.
at completion: 58 Ft.
Saved at 61 Ft.

Ground Surface Elevation: 790.0 Ft.

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	Description
			19	3" Black Silty CLAY, Topsoil
				Brown Silty CLAY, some Sand and Gravel, brick fragments, Fill
	7 15 10		5	
5				Brown SAND and Gravel, Fill
	2 2 5		79	Black Silty CLAY
				Gray Silty SAND
	2 1 1		387	
10				Black PEAT
	1 WH 1		153	
	1 2 1	1.2 S	33	
15				Gray Silty CLAY, some Sand and Gravel LL = 31, PI = 17 (CL)
	2 3 3	1.0 B	18	
	2 3 4	2.0 B	21	
20				
	3 4 5	1.1 S	15	Brownish-gray Silty CLAY, little Sand and Gravel
	3 5 5	2.4 B	18	
25				
	4 5 8	2.8 B	16	
	7 8 9			Poor Recovery @ 27.5-29'
30				
	7 8 9	1.3 B	19	Poor Recovery @ 30-31.5'
35				
	2 4 6	1.7 B	15	Brownish-gray Silty CLAY, little Sand and Gravel
40				
	7 7 10	3.1 B	15	
45				
	4 5 6	2.3 B	20	
50				
	7 10 11	1.5 P	24	LL = 35, PI = 17 (CL)

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)

Type Failure Qu test: B-Bulge, S-Shear, P-Penetrometer

BRIDGE FOUNDATION SOIL BORING LOG

midwest engineering services, inc.

Route: FAP 866
Section: 4N-1
County: Lake
Structure No.:
Station: 1+119
Offset: 12.2 m South

Boring: S-2
Page: 2 of 2
Date of Boring: September 22, 2003
Drilled By: Waukesha
Checked By: MB
MES Project No: 16-33011

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	Description
55				
	7 8 9	1.8 B	18	
				Brownish-gray Silty CLAY, little Sand and Gravel
60				
	7 6 12		21	No Recovery @ 60-61.5'
65				
	4 6 12	2.4 B	16	
70				
	8 10 12	2.6 B		

END OF BORING AT 70.5 FEET

NOTES:
1. Auger Sample collected at 1 to 2.5 ft.
2. Petroleum odor detected in auger cuttings at a depth of approximately 5 ft.

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)

Type Failure Qu test: B-Bulge, S-Shear, P-Penetrometer

RJN GROUP

RJN GROUP, INC.
WHEATON, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BORINGS - 2
IL RTE. 132 LAND BRIDGE
FAP RTE 866 - SEC 4N-1
LAKE COUNTY
STA. 1+143.3

SN 049-D002 DRAWN BY BLB

DATE: 11-06-09 CHECKED BY WJV

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 866	4N-1	LAKE	165	87
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 17 of 22

Contract No.: 60931

BRIDGE FOUNDATION SOIL BORING LOG
midwest engineering services, inc.

Route: FAP 866
Section: 4N-1
County: Lake
Structure No.
Station: 1+167
Offset: 7.92 m South

Boring: S-3
Page: 1 of 2
Date of Boring: September 24, 2003
Drilled By: Waukesha
Checked By: MB
MES Project No: 16-33011

Ground Water Elevation:
when drilling: 7.5 Ft.
at completion: Dry
Caved at 49 Ft.
Ground Surface Elevation: 789.9 Ft.

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	Notes
0			6	
				Crushed Stone, Fill
	7 6 11		14	Poor Recovery @ 2.5-4'
5				
	3 1 1		144	Gray SILT, little Sand
				Black PEAT
	1 1 1		186	
10				Gray Silty CLAY
	5 5 5	1.0 B	18	LL = 34, PI = 19 (CL)
15				
	2 4 4	0.8B	16	Gray Silty CLAY, little Sand and Gravel Poor Recovery @ 15-16.5'
	4 4 5	2.4 B	15	
20				
	3 5 6	3.5 B	12	
				Gray Silty CLAY, with Sand and Gravel
	4 4 7	2.5B	17	
25				
	3 4 6	1.5 B	15	

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	Notes
				Poor Recovery @ 27.5-28'
30	22 7 8	2.3B	14	
	9 8 9	2.6 B	15	
35				Gray Silty CLAY, little Sand and Gravel
	15 16 20		14	
40				
	11 11 11		14	No Recovery @ 35-36.5', 40-41.5', or 45-46.5' Possible Cobbles
45				
	9 10 13		17	
50				
	4 5 8	1.9B	16	LL = 4, PI = 17 (CL)

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)

Type Failure: Qu test — B-Bulge, S-Shear, P-Penetrometer

BRIDGE FOUNDATION SOIL BORING LOG
midwest engineering services, inc.

Route: FAP 866
Section: 4N-1
County: Lake
Structure No.
Station: 1+167
Offset: 7.92 m South

Boring: S-3
Page: 2 of 2
Date of Boring: September 24, 2003
Drilled By: Waukesha
Checked By: MB
MES Project No: 16-33011

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	Notes
55				
	5 6 9	2.0 P	15	Gray Silty CLAY, little Sand and Gravel
60				
	6 8 10	2.3 B	16	
				END OF BORING AT 61.5 FEET

NOTES:
1. Augar Sample collected at 1 to 2.5 ft.
2. Shelby Tube sample collected at 12.5 to 14 ft.

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)

Type Failure: Qu test — B-Bulge, S-Shear, P-Penetrometer

RJN GROUP
RJN GROUP, INC.
WHEATON, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BORINGS - 3
IL RTE. 132 LAND BRIDGE
FAP RTE 866 - SEC 4N-1
LAKE COUNTY
STA. 1+143.3

SN 049-D002 DRAWN BY BLB
DATE: 11-06-09 CHECKED BY WJV

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 866	4N-1	LAKE	165	88
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT -	

SHEET NO. 18 of 22

Contract No.: 60931

BRIDGE FOUNDATION SOIL BORING LOG
midwest engineering services, inc.

Route: FAP 866
Section: 4N-1
County: Lake
Structure No.
Station: 1+196
Offset: 13.7 m South

Boring: S-4
Page: 1 of 2
Date of Boring: September 22, 2003
Drilled By: Waukesha
Checked By: MB
MES Project No: 16-33011

Ground Water Elevation:
when drilling: 6 Ft.
at completion: 6 Ft.

Ground Surface Elevation: 790.2 Ft.

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	
			12	2" Black Silty CLAY, Topsoil
	5 5 4		12	Brown Silty CLAY, some Sand and Gravel
5				
	2 3 5		22	Brown SAND and GRAVEL
	2 HW 1		29	Brown Silty CLAY, some Sand and Gravel LL = 37, PI = 29 (CL)
10				
	4 3 6	2.3B	18	Brownish-gray Silty CLAY, some Sand and Gravel
	3 4 6	1.8 B	16	
15				
	3 5 6	2.6 B	14	
	6 8 7	1.2 B	15	Brownish-gray Silty CLAY, some Sand and Gravel
20				
	7 9 13	1.0B	18	
	4 6 8	1.8 B	14	
25				
	5 8 11	0.5B	21	
	3 6 8	1.6 B	15	
30				
	7 6 6	1.4 B	11	
35				
	5 11 9	1.0B	17	Brownish-gray Silty CLAY, some Sand and Gravel
				Poor Recovery @ 40-41.5'
40				
	5 6 9		16	
45				
	4 7 9	3.4 B	17	
50				
	7 7 11	2.9 B	18	

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)

Type Failure: Qu test — B-Bulge, S-Shear, P-Penetrometer

BRIDGE FOUNDATION SOIL BORING LOG
midwest engineering services, inc.

Route: FAP 866
Section: 4N-1
County: Lake
Structure No.
Station: 1+196
Offset: 13.7 m South

Boring: S-4
Page: 2 of 2
Date of Boring: September 22, 2003
Drilled By: Waukesha
Checked By: MB
MES Project No: 16-33011

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	
55	7 10 12	3.6 B	20	Brownish Gray Silty CLAY, some Sand and Gravel
60	4 7 10	3.7 B	22	
				END OF BORING AT 61.5 FEET

NOTES
1. Auger Sample collected at 1 to 2.5 ft.

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)

Type Failure: Qu test — B-Bulge, S-Shear, P-Penetrometer

RJN GROUP
RJN GROUP, INC.
WHEATON, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BORINGS - 4
IL RTE. 132 LAND BRIDGE
FAP RTE 866 - SEC 4N-1
LAKE COUNTY
STA. 1+143.3

SN 049-D002 DRAWN BY BLB
DATE: 11-06-09 CHECKED BY WJV

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 866	4N-1	LAKE	165	89
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT=		

SHEET NO. 19 of 22

Contract No.: 60931

BRIDGE FOUNDATION SOIL BORING LOG
midwest engineering services, inc.

Route: FAP 866
Section: 4N-1
County: Lake
Structure No.
Station: 1+103
Offset: 17.4 m North

Boring: N-1
Page: 1 of 2
Date of Boring: September 24, 2003
Drilled By: Waukesha
Checked By: MB
MES Project No: 16-33011

Ground Water Elevation:
when drilling: 10 Ft.
at completion: 18 Ft.
Caved at 28 Ft.
Ground Surface Elevation: 786.4 Ft

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	Soil Description
			8	3" Black Silty CLAY, Topsoil
	1 2 2		22	Brown Silty CLAY, some Sand and Gravel, Fill
5	1 1 2		18	Brown and gray Silty CLAY, Fill
	1 2 3		16	Black and gray Silty CLAY with Sand and Gravel
10	1 1 1		17	
	6 5 7		23	Gray SAND and GRAVEL Poor Recovery @ 12.5-14'
15	4 6 6	2.5 B	16	
	5 6 9	4.1 B	18	
20	4 5 4	2.4 B	15	Brownish-gray Silty CLAY, little Sand and Gravel
	7 8 9	1.0B	17	
25	5 7 11	1.4B	17	Poor Recovery @ 25-26.5' LL = 31, PI = 15 (CL)
30	7 6 10		16	LL = 18, PI = 4 (CL-ML)
	5 7 6		16	LL = 19, PI = 4 (CL-ML)
				Brown SILT, with Sand and Gravel
35	5 7 10	4.4B	16	
40	6 7 13	3.8B	17	Gray Silty CLAY, little Sand and Gravel
45				Gray SAND and GRAVEL
	4 6 9	2.5B	16	
50	4 8 9	3.4-B	17	Gray Silty CLAY, little Sand and Gravel

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)

Type Failure: Qu test — B-Bulge, S-Shear, P-Penetrometer

BRIDGE FOUNDATION SOIL BORING LOG
midwest engineering services, inc.

Route: FAP 866
Section: 4N-1
County: Lake
Structure No.
Station: 1+103
Offset: 17.4 m North

Boring: N-1
Page: 2 of 2
Date of Boring: September 24, 2003
Drilled By: Waukesha
Checked By: MB
MES Project No: 16-33011

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	Soil Description
55	4 8 9	1.7B	22	Gray Silty CLAY, Little Sand and Gravel
				END OF BORING AT 56.5 FEET

NOTES:
1. Auger Sample collected at 1 to 2.5 ft.
2. Petroleum odor detected in samples collected between the depths of 10 to 11.5 ft. and 25 to 25.5 ft.

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)

Type Failure: Qu test — B-Bulge, S-Shear, P-Penetrometer

RJN GROUP
RJN GROUP, INC.
WHEATON, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BORINGS - 5
IL RTE. 132 LAND BRIDGE
FAP RTE 866 - SEC 4N-1
LAKE COUNTY
STA. 1+143.3

SN 049-D002 DRAWN BY BLB
DATE: 11-06-09 CHECKED BY WJV

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 866	4N-1	LAKE	165	90
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 20 of 22

Contract No.: 60931

BRIDGE FOUNDATION SOIL BORING LOG
midwest engineering services, inc.

Route: FAP 866
Section: 4N-1
County: Lake
Structure No.:
Station: 1+126
Offset: 18.6 m North

Boring: N-2
Page: 1 of 2
Date of Boring: September 23, 2003
Drilled By: Waukesha
Checked By: MB
MES Project No: 16-33011

Ground Water Elevation:
when drilling: 3 Ft
at completion: Dry

Ground Surface Elevation: 788.3 Ft

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)		DEPTH (ft.)	BLOWS (6")	Q_p (tsf)	MC (%)
			6	1" Asphalt				
				Crushed Stone with SAND, Fill		5 5 8	3.5 B	16
	2 2 3		17		30			
5						3 5 8	3.7 B	16
	1 2 2		27					
				Gray Silty CLAY, little Sand and Gravel				
	1 2 3		20	Gray Silty CLAY FILL	35			
10				3" Silt Seam at 35.5 ft.		6 8 10	3.2B	16
	2 2 2		21					
					40	4 5 11	3.0 B	17
15				Black PEAT No recovery at 15 - 16.5'				
				Gray SILT				
					45	4 7 11	3.8B	19
20	3 4 4	1.8 B	19	Gray Silty CLAY, little Sand and Gravel				
	3 4 8	2.0 B	17	Gray Silty CLAY, little Sand and Gravel	50	12 11 14		
25				No Recovery @ 50-51.5'				
	4 7 11	6.1 B	16					

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)

Type Failure
Qu test
B-Bulge
S-Shear
P-Penetrometer

BRIDGE FOUNDATION SOIL BORING LOG
midwest engineering services, inc.

Route: FAP 866
Section: 4N-1
County: Lake
Structure No.:
Station: 1+126
Offset: 18.6 M North

Boring: N-2
Page: 2 of 2
Date of Boring: September 23, 2003
Drilled By: Waukesha
Checked By: MB
MES Project No: 16-33011

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)		DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)
				Gray Silty CLAY, little Sand and Gravel				
	5 7 11	2.7 B	18		55			
				END OF BORING AT 56.5 FEET				

NOTES:
1. Auger Sample collected at 1 to 2.5 ft.
2. Shelby Tube samples collected at 12.5 to 14 ft., 15-16.5 ft. and 17.5 to 19 ft.

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)

Type Failure
Qu test
B-Bulge
S-Shear
P-Penetrometer

RJN GROUP
RJN GROUP, INC.
WHEATON, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BORINGS - 6
IL RTE. 132 LAND BRIDGE
FAP RTE 866 - SEC 4N-1
LAKE COUNTY
STA. 1+143.3

SN 049-D002 DRAWN BY BLB
DATE: 11-06-09 CHECKED BY WJV

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 866	4N-1	LAKE	165	91
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 21 of 22

Contract No.: 60931

BRIDGE FOUNDATION SOIL BORING LOG

midwest engineering services, inc.

Route: FAP 866
Section: 4N-1
County: Lake
Structure No.
Station: 1+152
Offset: 15.8 m North

Boring: N-3
Page: 1 of 2
Date of Boring: September 24, 2003
Drilled By: Waukesha
Checked By: MB
MES Project No. 16-33011

Ground Water Elevation:
when drilling: Dry
at completion: Dry

Ground Surface Elevation: 790.6 Ft.

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	Description
			18	12" Black Silty CLAY, Topsoil
	2 2 1		18	Brown Silty CLAY, Possible Fill LL = 30, PI = 13 (CL)
5	WH 1 1		18	Poor Recovery @ 5-6.5'
	2 2 3		25	Greenish-gray Silty CLAY
10	4 3 5		21	
	4 2 4	2.4B	13	LL = 32, PI = 16 (CL)
15	2 1 3	2.1B	18	
	3 4 5	3.2B	16	Gray Silty CLAY, little Sand and Gravel
20	3 3 5	2.7B	15	Poor Recovery @ 20-21.5'
	4 4 5	1.4B	16	
25	3 3 5	3.4B	17	
30	5 6 5			No Recovery @ 27.5-29' or 30-31.5'
	5 8 9		9	
35	5 6 5	2.7B	18	
	5 6 5			Gray Silty CLAY, little Sand and Gravel
40	3 6 7	3.1B	16	
45	5 4 7	2.0B	16	
50	4 5 3	2.7B	17	

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)

Type Failure — Qu test: B-Bulge, S-Shear, P-Penetrometer

BRIDGE FOUNDATION SOIL BORING LOG

midwest engineering services, inc.

Route: FAP 866
Section: 4N-1
County: Lake
Structure No.
Station: 1+152
Offset: 15.5 m North

Boring: N-3
Page: 2 of 2
Date of Boring: September 24, 2003
Drilled By: Waukesha
Checked By: MB
MES Project No. 16-33011

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	Description
55	5 6 9	2.7B	14	Gray Silty CLAY, little Sand and Gravel
60	4 7 8	2.8B	17	
				END OF BORING AT 61.5 FEET
65				

NOTES:
1. Auger Sample collected at 1 to 2.5 ft.

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)

Type Failure — Qu test: B-Bulge, S-Shear, P-Penetrometer

RJN GROUP

RJN GROUP, INC.
WHEATON, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BORINGS - 7
IL RTE. 132 LAND BRIDGE
FAP RTE 866 - SEC 4N-1
LAKE COUNTY
STA. 1+143.3

SN 049-D002 DRAWN BY BLB

DATE: 11-06-09 CHECKED BY WJV

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 866	4N-1	LAKE	165	92
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 22 of 22

Contract No.: 60931

BRIDGE FOUNDATION SOIL BORING LOG
midwest engineering services, inc.

Route: FAP 866
Section: 4N-1
County: Lake
Structure No.
Station: 1+175
Offset: 16.0 m North

Boring: N-4
Page: 1 of 2
Date of Boring: September 24, 2003
Drilled By: Waukesha
Checked By: MB
MES Project No: 16-33011

Ground Water Elevation
when drilling: 5 Ft
at completion: Dry

Ground Surface Elevation: 780.4 Ft

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	
			14	12" Black Silty CLAY, Topsoil
				Brown Silty CLAY, with Sand and Gravel, Fill
	4 3 3		14	
5				
	4 5 5		33	Gray Silty SAND possible buried topsoil at 6.5'
	WH 1 2		109	Greenish-gray Silty CLAY
10				
	2 2 3	1.0B	30	LL = 52, PI = 29 (CH)
	3 3 4	1.7B	17	
15				
	3 3 4	1.8B	20	
				Gray Silty CLAY, little Sand and Gravel LL = 42, PI = 24 (CL)
	3 2 4	0.5B	21	
20				
	4 6 7	2.3B	15	
				LL = 28, PI = 14 (CL)
	3 5 5	1.1B	16	
25				
	5 6 8			

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	
	3 4 5	1.0B	19	LL = 24, PI = 11 (CL)
30				
	2 4 4	1.0B	17	
35				
	3 4 3		13	
				Gray Silty CLAY, little Sand and Gravel
40				
	7 6 7	1.8B	16	
45				
	4 5 6	2.4B	15	
50				
	7 9 11	0.5B	19	

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)

Type Failure
Qu test
B-Bulge
S-Shear
P-Penetrometer

BRIDGE FOUNDATION SOIL BORING LOG
midwest engineering services, inc.

Route: FAP 866
Section: 4N-1
County: Lake
Structure No.
Station: 1+175
Offset: 16.0 m North

Boring: N-4
Page: 2 of 2
Date of Boring: September 24, 2003
Drilled By: Waukesha
Checked By: MB
MES Project No: 16-33011

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	
55				
	7 7 10	2.4B	17	
60				
	6 10 19	0.9B	19	Gray Silty CLAY, little Sand and Gravel
65				
	5 8 11	2.7B	18	
70				
	6 8 10	2.5B	17	
				END OF BORING AT 71.5 FEET

NOTES,
1. Auger Sample collected at 1 to 2.5 ft.

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)

Type Failure
Qu test
B-Bulge
S-Shear
P-Penetrometer

RJN GROUP
RJN GROUP, INC.
WHEATON, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BORINGS - 8
IL RTE. 132 LAND BRIDGE
FAP RTE 866 - SEC 4N-1
LAKE COUNTY
STA. 1+143.3

SN 049-D002 DRAWN BY BLB
DATE: 11-06-09 CHECKED BY WJV

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 866	4N-1	LAKE	165	93
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 22 of 22

Contract No.: 60931

BRIDGE FOUNDATION SOIL BORING LOG
midwest engineering services, inc.

Route: FAP 866
Section: 4N-1
County: Lake
Structure No.
Station: 1+175
Offset: 16.0 m North

Boring: N-4
Page: 1 of 2
Date of Boring: September 24, 2003
Drilled By: Waukesha
Checked By: MB
MES Project No: 16-33011

Ground Water Elevation:
when drilling: 5 Ft.
at completion: Dry

Ground Surface Elevation: 790.4 Ft

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	
			14	12" Black Silty CLAY, Topsoil
				Brown Silty CLAY, with Sand and Gravel, Fill
	4 3 3		14	
5				
	4 5 5		33	Gray Silty SAND possible buried topsoil at 6.5'
	WH 1 2		109	Greenish-gray Silty CLAY
10				
	2 2 3	1.0B	30	LL = 82, PI = 29 (CH)
	3 3 4	1.7B	17	
15				
	3 3 4	1.8B	20	
				Gray Silty CLAY, little Sand and Gravel
	3 2 4	0.5B	21	LL = 42, PI = 24 (CL)
20				
	4 6 7	2.3B	15	
				LL = 29, PI = 14 (CL)
	3 5 5	1.1B	18	
25				
	5 6 8			

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	
	3 4 5	1.0B	19	
30				
	2 4 4	1.0B	17	LL = 24, PI = 11 (CL)
35				
	3 4 3		13	
				Gray Silty CLAY, little Sand and Gravel
40				
	7 6 7	1.8B	16	
45				
	4 5 6	2.4B	15	
50				
	7 9 11	0.5B	19	

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)

Type Failure
Qu test
B-Bulge
S-Shear
P-Penetrometer

BRIDGE FOUNDATION SOIL BORING LOG
midwest engineering services, inc.

Route: FAP 866
Section: 4N-1
County: Lake
Structure No.
Station: 1+175
Offset: 16.0 m North

Boring: N-4
Page: 2 of 2
Date of Boring: September 24, 2003
Drilled By: Waukesha
Checked By: MB
MES Project No: 16-33011

DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)	
55				
	7 7 10	2.4B	17	
60				
	8 10 19	0.8B	19	Gray Silty CLAY, little Sand and Gravel
65				
	6 8 11	2.7B	18	
70				
	6 8 10	2.5B	17	

END OF BORING AT 71.5 FEET

NOTES:
1. Auger Sample collected at 1 to 2.5 ft.

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)

Type Failure
Qu test
B-Bulge
S-Shear
P-Penetrometer

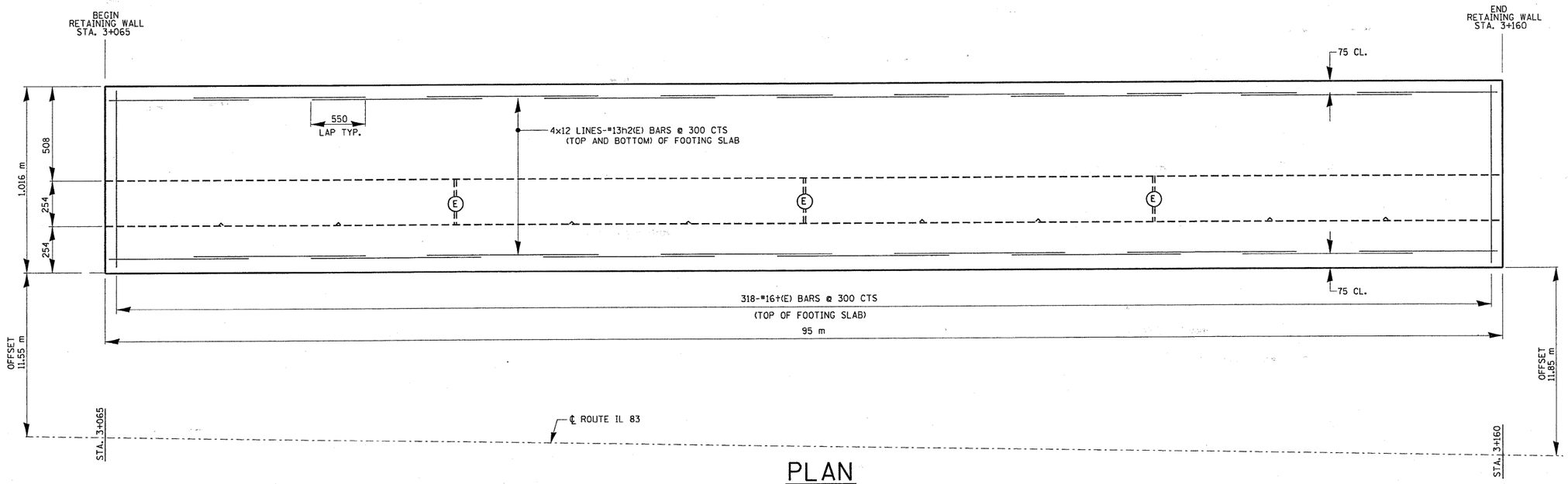
RJN GROUP
RJN GROUP, INC.
WHEATON, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BORINGS - 8
IL RTE. 132 LAND BRIDGE
FAP RTE 866 - SEC 4N-1
LAKE COUNTY
STA. 1+143.3
SN 049-D002
DRAWN BY BLB
DATE: 11-06-09
CHECKED BY WJV

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	94
STA. 3 + 065		TO STA. 3 + 160		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SHEET S1 OF S5



PLAN
(SHOWING FOOTING REINFORCEMENT)

BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH (m)	SHAPE
h(E)	28	#13	8.470	——
h1(E)	56	#13	8.145	——
h2(E)	96	#13	8.458	——
n(E)	324	#13	2.848	L
n4(E)	324	#13	1.339	⌋
†(E)	318	#16	916	——
REINFORCEMENT BARS, EPOXY COATED			KG	3300
CONCRETE STRUCTURES			CU. M.	78
PARAPET RAILING			M	95
STRUCTURE EXCAVATION			CU. M.	210
CONCRETE GUTTER, TYPE B			M	95

GENERAL NOTES:

1. ALL ELEVATIONS ARE IN METERS.
2. ALL DIMENSIONS ARE IN mm EXCEPT AS NOTED.
3. BACK FILLING SHALL BE PERFORMED IN ACCORDANCE WITH ARTICLE 502.10 OF STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2002.
4. USE CLASS SI CONCRETE.
5. MINIMUM CLEAR COVER 50mm. EXCEPT AS NOTED.
6. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
7. BARS INDICATED THUS 4x12-#13 etc. INDICATES 4 LINES OF BARS WITH 12 LENGTHS PER LINE.
8. MINIMUM BAR LAP #13 BARS 550 mm
9. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 31M, M 42M OR 53M GRADE 400.
10. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 20 mm EXCEPT AS NOTED.

SCOPE OF WORK:

1. PERFORM STRUCTURE EXCAVATION
2. INSTALL RETAINING WALL
3. INSTALL CURB GUTTER
4. INSTALL RAILING

DESIGN SPECIFICATIONS:

1996 AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, INCLUDING 1997, 1998, 1999 & 2000 INTERIMS

LOADING:

EQUIVALANT FLUID LATERAL SOIL PRESSURE = 6.3 kPa/m

DESIGN STRESSES:

f'c = 24 MPa
fy = 400 MPa (Reinf.)
fy = 250 KPa (M270 M GRADE 250)

LEGEND:

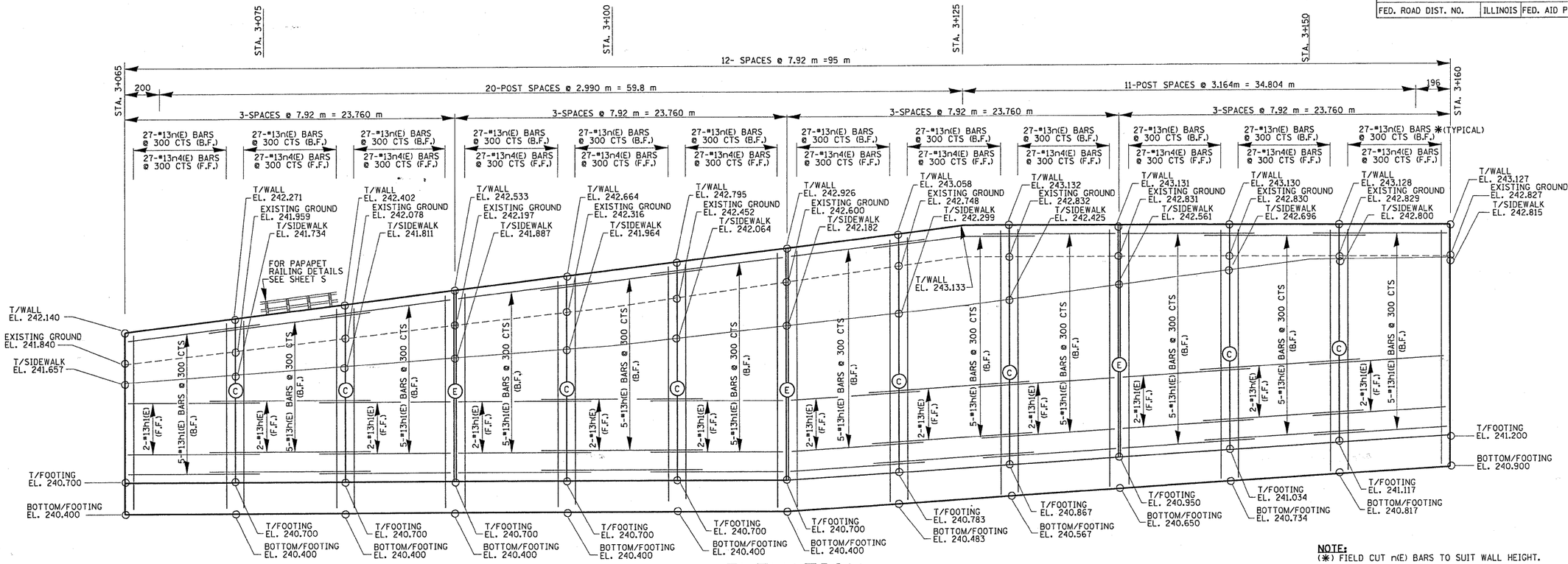
(E) = EXPANSION JOINT
(C) = CONSTRUCTION JOINT
B.F.= BACK FACE
F.F.= FRONT FACE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL 83 (MILWAUKEE AVENUE)
AT IL 132 (GRAND AVENUE)
RETAINING WALL- PLAN FOOTING
STA. 3+065 - STA. 3+160
S.N. 049-W030
SCALE: NONE — DRAWN BY: MVT
DATE: AUGUST, 2003 — CHECKED BY: R.S.S.

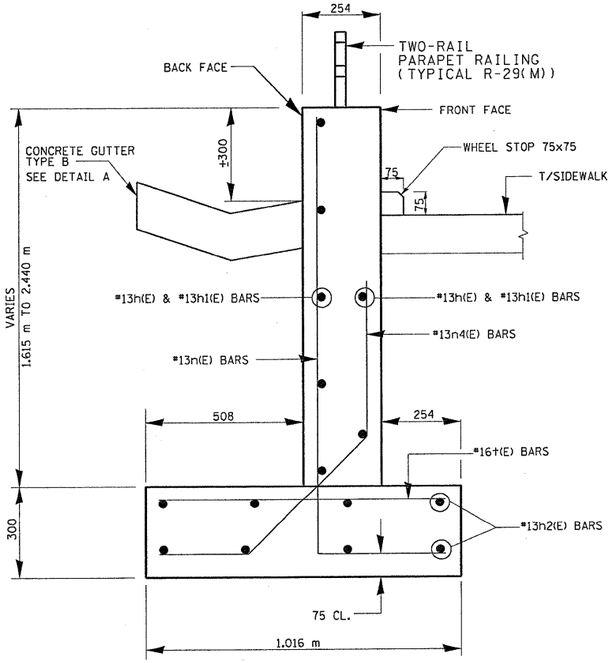
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	95
STA. 3 + 065		TO STA. 3 + 160		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SHEET S2 OF S5

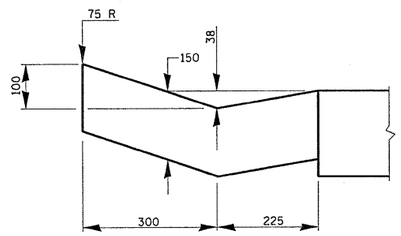


NOTE:
(✱) FIELD CUT n(E) BARS TO SUIT WALL HEIGHT.

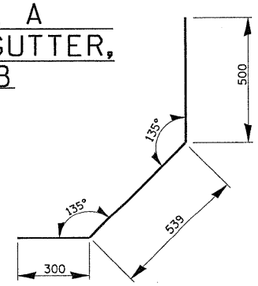
ELEVATION



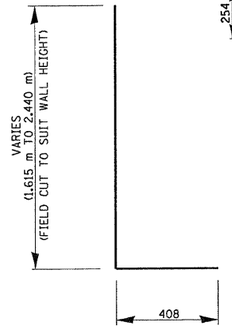
SECTION A-A



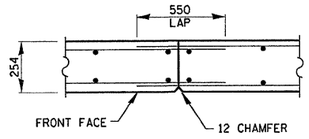
DETAIL A
CONCRETE GUTTER, TYPE B



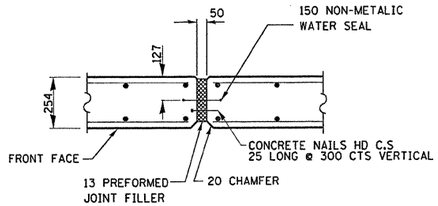
BAR n4(E)



BAR n(E)
(TOTAL LENGTH FROM 2.023 m TO 2.848 m)
(FIELD CUT TO SUIT WALL HEIGHT)



Ⓒ CONSTRUCTION JOINT DETAIL



Ⓔ EXPANSION JOINT DETAIL

RETAINING WALL JOINT DETAILS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL 83 (MILWAUKEE AVENUE)
AT IL 132 (GRAND AVENUE)
FOUNDATION ELEVATION AND DETAILS
STA. 3+065- STA. 3+160
S.N. 049-W030

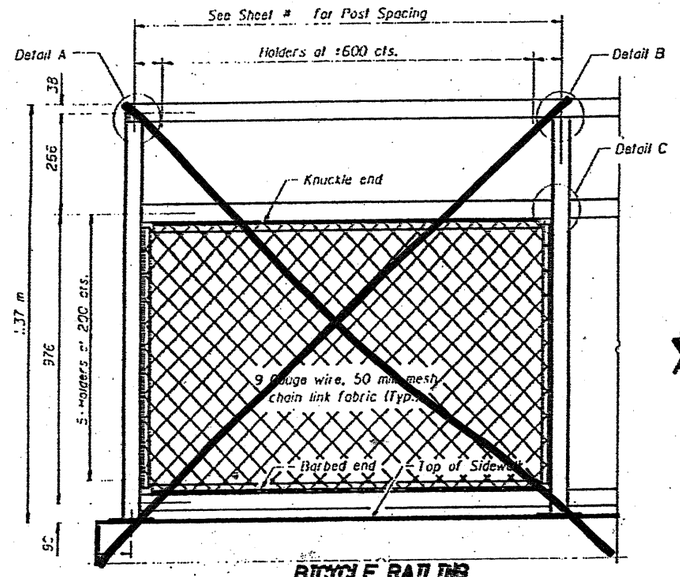
SCALE: NONE
DRAWN BY: MVT
DATE: AUGUST, 2003
CHECKED BY: R.S.S.

DISTRICT ONE - DESIGN
PLAN PREPARATION ENGINEER JOHN FORTMANN / RUSS SINHA (847) 705-4209 / ATTENTION MARK V. TINIAKOS (847) 705-4266

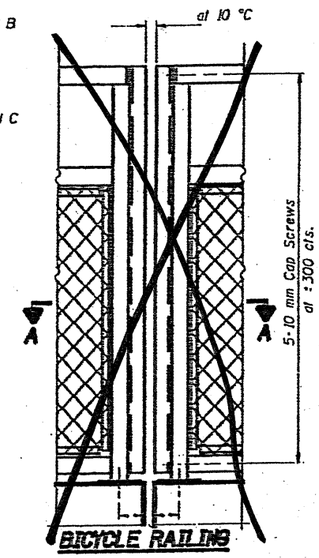
Tue Aug 12 07:32:35 2003
c:\projects\structl\1183@ll132.m32 LV=1-63

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	96
STA. 3 + 065	TO STA. 3 + 160			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

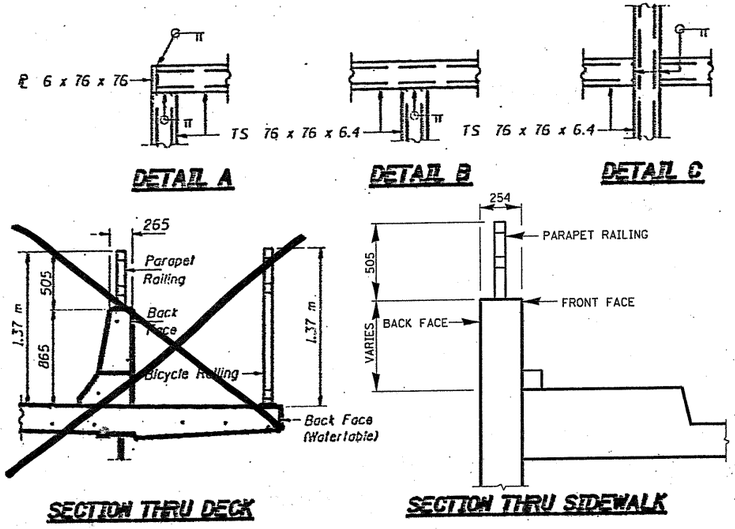
SHEET S3 OF S5



BICYCLE RAILING

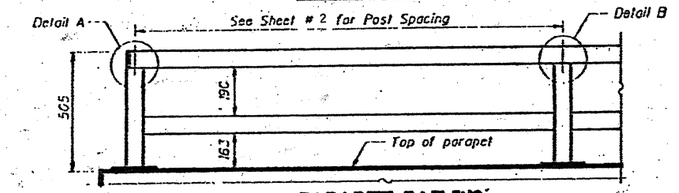


BICYCLE RAILING

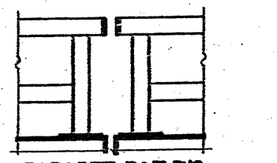


SECTION THRU DECK

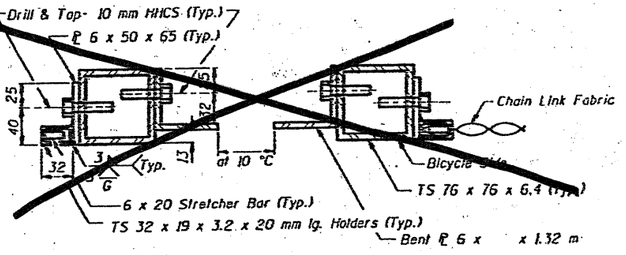
SECTION THRU SIDEWALK



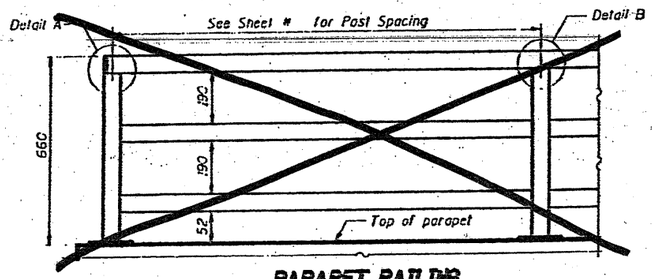
PARAPET RAILING
ELEVATION
(Inside Face of Two Element Rail)



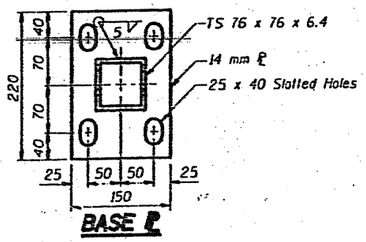
PARAPET RAILING
ELEVATION AT EXPANSION JOINT
(Two Element Rail Shown - Three Element Rail Similar)



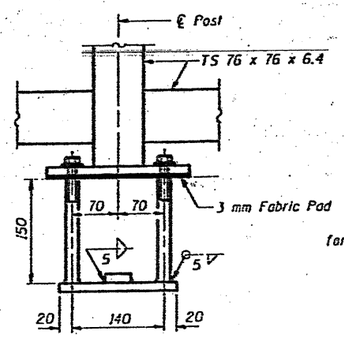
SECTION A-A



PARAPET RAILING
ELEVATION
(Inside Face of Three Element Rail)

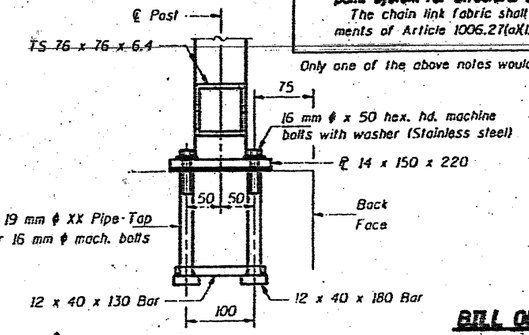


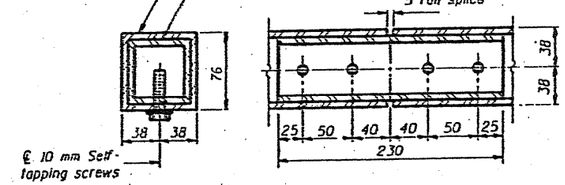
BASE ℄



ANCHOR BOLT DETAILS

(In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and epoxy grouting M16 anchor rods for the connections on top of the parapets. Embedment shall be according to the manufacturer's specifications.)





RAIL SPLICE

NOTES

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the Contract Unit Price per meter for Bicycle Railing.

The 9 gauge fabric ties shall be according to Article 1006.27 (d) of the Standard Specifications.

Installation of the chain link fabric shall be according to Section 664 of the Standard Specifications.

Hollow structural steel tubing shall conform to the requirements of ASTM designation A 500, Grade B, structural steel tubing.

All other steel shapes and plates shall conform to the requirements of AASHTO M 270M Grade 250.

The Parapet Railing, furnished and installed shall not be paid for separately but shall be included in the unit bid price for "Bicycle Railing."

The chain link fabric shall be placed along Bicycle Side as shown on Section A-A.

Stretcher bars shall be used at all four sides of each panel.

If the option of drilling and epoxy grouting the anchor rods is chosen, the Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or the adhesive cartridge shall be sealed with premeasured amounts of the adhesive chemical.

Space reinforcement to miss anchor rods.

All dimensions are in millimeters (mm) except as noted.

The designer should add the appropriate note as applicable.

A. When railing is galvanized:

All posts, railing, splices, anchor devices, and bent plates shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. All bolts, nuts, washers and anchor rods shall be galvanized according to AASHTO M 232 except stainless steel bolts as noted.

Vent holes for galvanizing shall be placed in the posts and rails at locations that will not allow the accumulation of moisture in the members.

The chain link fabric shall conform to the requirements of Article 1006.27(a)(1)a, b or c of the Standard Specifications.

B. When railing is painted:

All post, railing, splices, anchor devices, and bent plates shall be painted using the **(list the appropriate paint system for Structural Steel).**

The chain link fabric shall conform to the requirements of Article 1006.27(a)(1)d of the Standard Spec's.

Only one of the above notes would appear on Contract Plans.

BILL OF MATERIAL

Item	Unit	Quantity
Parapet Railing	m	95

DESIGNED	
CHECKED	
DRAWN	
CHECKED	

EXAMINED
ENGINEER OF BRIDGE DESIGN
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

R-29 (M) 4-30-99 (3.0 m Maximum Post Spacing)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
IL 83 (MILWAUKEE AVENUE)
AT IL 132 (GRAND AVENUE)
PARAPET RAILING DETAILS
STA. 3+065 - STA. 3+160
S.N. 049-W030

SCALE: NONE DRAWN BY: MVT
DATE: AUGUST, 2003 CHECKED BY: R.S.S.

ATTENTION MARK V. TINIAKOS (847) 705-4266
DISTRICT ONE - DESIGN
PLAN PREPARATION ENGINEER JOHN FORTMANN / RUSS SINHA (847) 705-4209 / ATTEN
Mon Jul 28 10:44:38 2003
c:\projects\structl\1838a1132.m32 LV=1-63

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	97
STA. 3 + 065		TO STA. 3 + 160		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

Illinois Department of Transportation
Division of Highways
ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG

Page 1 of 1

Date 6/19/03

ROUTE FAP 866 (IL 83) DESCRIPTION Retaining Wall n/o IL 132 LOGGED BY C. Goddard

SECTION 4N-1 LOCATION SW 1/4, SEC. 33, TWP. 46N, RNG. 10E, 3rd PM

COUNTY Lake DRILLING METHOD CME 750, 3.25" HSA HAMMER TYPE CME Automatic

STRUCT. NO. _____
Station _____

BORING NO. B-1
Station 3+077
Offset 13.41m Lt CL
Ground Surface Elev. 242.01 m

Surface Water Elev. _____ m
Stream Bed Elev. _____ m

Groundwater Elev.:
First Encounter 240.5 m
Upon Completion DRY m
After 4 Hrs. 240.9 m

DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Bituminous Concrete 152mm 241.86			
Black SILTY CLAY			21
241.19	2		
Stiff Brown SILTY CLAY w/some fine sand	3	144	23
-0.8	3	B	
240.43	5		
Hard Brown w/Gray Streaks SILTY CLAY w/trace coarse sand	7	671	16
	12	B	
	5		
Grades w/trace fine gravel	10	680	15
239.27	13	B	
End of Boring -3.0			
-4.5			
-6.0			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG

Page 1 of 1

Date 6/19/03

ROUTE FAP 866 (IL 83) DESCRIPTION Retaining Wall n/o IL 132 LOGGED BY C. Goddard

SECTION 4N-1 LOCATION SW 1/4, SEC. 33, TWP. 46N, RNG. 10E, 3rd PM

COUNTY Lake DRILLING METHOD CME 750, 3.25" HSA HAMMER TYPE CME Automatic

STRUCT. NO. _____
Station _____

BORING NO. B-2
Station 3+108
Offset 10.67m Lt CL
Ground Surface Elev. 242.41 m

Surface Water Elev. _____ m
Stream Bed Elev. _____ m

Groundwater Elev.:
First Encounter _____ m
Upon Completion DRY m
After ____ Hrs. _____ m

DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
TOPSOIL 305mm			
242.11			
Brown and Black SILTY CLAY			29
		57	
241.59	WOH*	B	25
Soft to Very Stiff Brown SILTY CLAY w/some coarse sand to fine gravel	2	278	18
	4	B	
240.88 -1.5	3		
Hard Brown SILTY CLAY w/trace fine gravel	6	699	15
	8	B	
	4		
	7	766	15
239.67	9	B	
* Weight of Hammer (WOH) -3.0			
End of Boring			
-4.5			
-6.0			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG

Page 1 of 1

Date 6/19/03

ROUTE FAP 866 (IL 83) DESCRIPTION Retaining Wall n/o IL 132 LOGGED BY C. Goddard

SECTION 4N-1 LOCATION SW 1/4, SEC. 33, TWP. 46N, RNG. 10E, 3rd PM

COUNTY Lake DRILLING METHOD CME 750, 3.25" HSA HAMMER TYPE CME Automatic

STRUCT. NO. _____
Station _____

BORING NO. B-3
Station 3+142
Offset 10.09m Lt CL
Ground Surface Elev. 242.73 m

Surface Water Elev. _____ m
Stream Bed Elev. _____ m

Groundwater Elev.:
First Encounter 241.2 m
Upon Completion DRY m
After ____ Hrs. _____ m

DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
TOPSOIL 330mm			
242.40			
Olive and Brown SILTY CLAY			25
241.85	1		
Soft Brown LOAM w/trace fine gravel	1	29	23
	3	B	
241.36			
Hard Brown SILTY CLAY w/trace coarse sand -0.8	5		
	8	632	16
	13	B	
	6		
	10	680	15
239.99	11	B	
End of Boring -3.0			
-4.5			
-6.0			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG

Page 1 of 1

Date 6/19/03

ROUTE FAP 866 (IL 83) DESCRIPTION Culvert Headwall n/o IL 132 LOGGED BY C. Goddard

SECTION 4N-1 LOCATION SW 1/4, SEC. 33, TWP. 46N, RNG. 10E, 3rd PM

COUNTY Lake DRILLING METHOD CME 750, 3.25" HSA HAMMER TYPE CME Automatic

STRUCT. NO. _____
Station _____

BORING NO. B-4
Station 3+319
Offset 5.49m Rt CL
Ground Surface Elev. 241.07 m

Surface Water Elev. 237.92 m
Stream Bed Elev. 237.83 m

Groundwater Elev.:
First Encounter _____ m
Upon Completion DRY m
After ____ Hrs. _____ m

DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Bituminous Pavement 330mm			
240.74			
Stiff Brown and Black SILTY CLAY	2		
	2	153	20
	3	B	
-1.6	2		
	2	105	27
238.83	3	B	
Hard Brown w/Gray Streaks SILTY CLAY	2		
	6	383	17
	7	B	
-3.0	5		
	8	795	16
	11	B	
	4		
	7	527	18
	9	B	
Grades w/o Gray Streaks -4.5	5		
	8	671	18
	11	B	
		240	
235.58	3	P	21
Very Stiff Brown SILTY LOAM	4	259	20
-6.0	6	B	
Stiff Gray SILTY CLAY 235.00	2		
	3	183	22
	4	B	
		263	
Approx. 51mm thick Silt Seam @ about 6.9m	2	P	15
234.06	4	144	16
Stiff Gray SILTY LOAM	6	P	
-7.5	2		
233.35	2	230	22
Stiff Gray SILTY CLAY	6		
	3		
	5	307	17
Thin Sand Seam @ about 8.5m	7	B	
-9.0	3		
	4	220	17
	6	B	
	3		
Grades w/trace fine gravel	4	182	15
	6	B	
-10.5	3		
	4	201	23
Approx. 51mm thick Soft Layer @ about 11m 229.94	4	B	
End of Boring			
-12.0			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

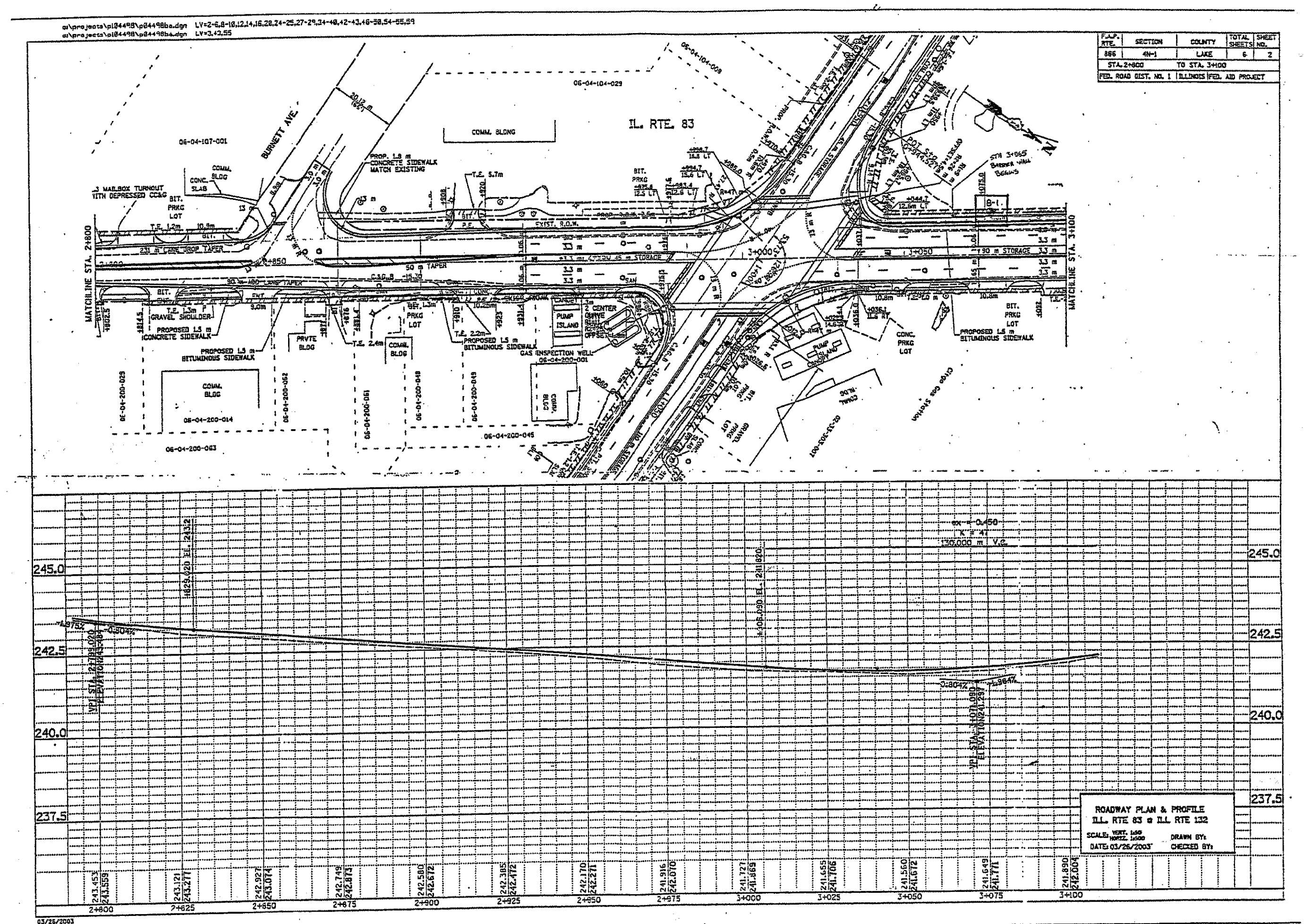
REVISIONS	
NAME	DATE

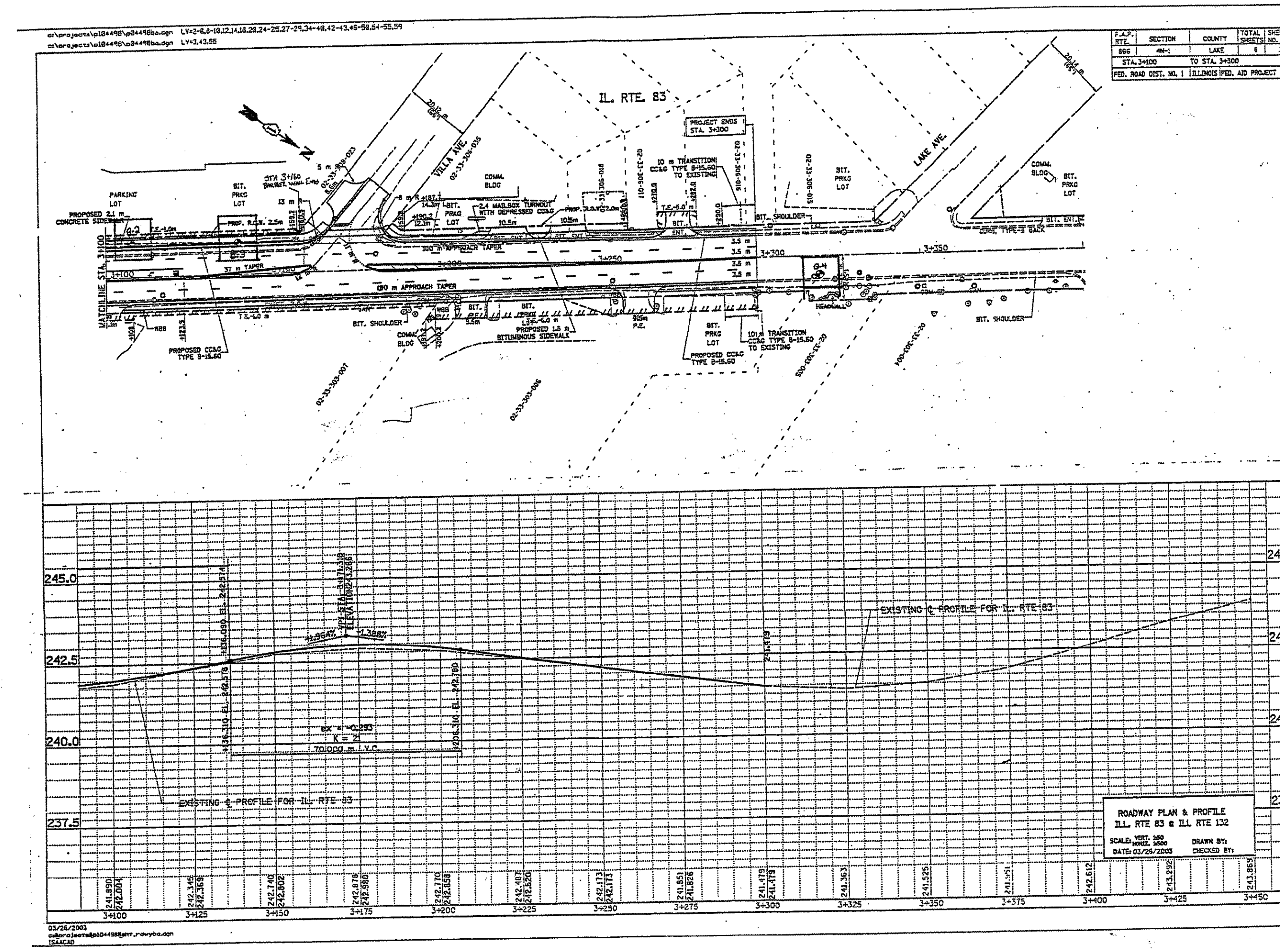
ILLINOIS DEPARTMENT OF TRANSPORTATION
IL 83 (MILWAUKEE AVENUE)
AT IL 132 (GRAND AVENUE)
SOIL BORINGS LOG
STA. 3+065 - STA. 3+160
S.N. 049-W030

SCALE: NONE DRAWN BY: MVT

DATE: AUGUST, 2003 CHECKED BY: R.S.S.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	98
STA. 3 + 065		TO STA. 3 + 160		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	





REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL 83 (MILWAUKEE AVENUE) AT IL 132 (GRAND AVENUE) SOIL BORINGS-PLAN STA. 3+065 - STA. 3+160 S.N. 049-W030

SCALE: NONE DRAWN BY: MVT

DATE: AUGUST, 2003 CHECKED BY: R.S.S.

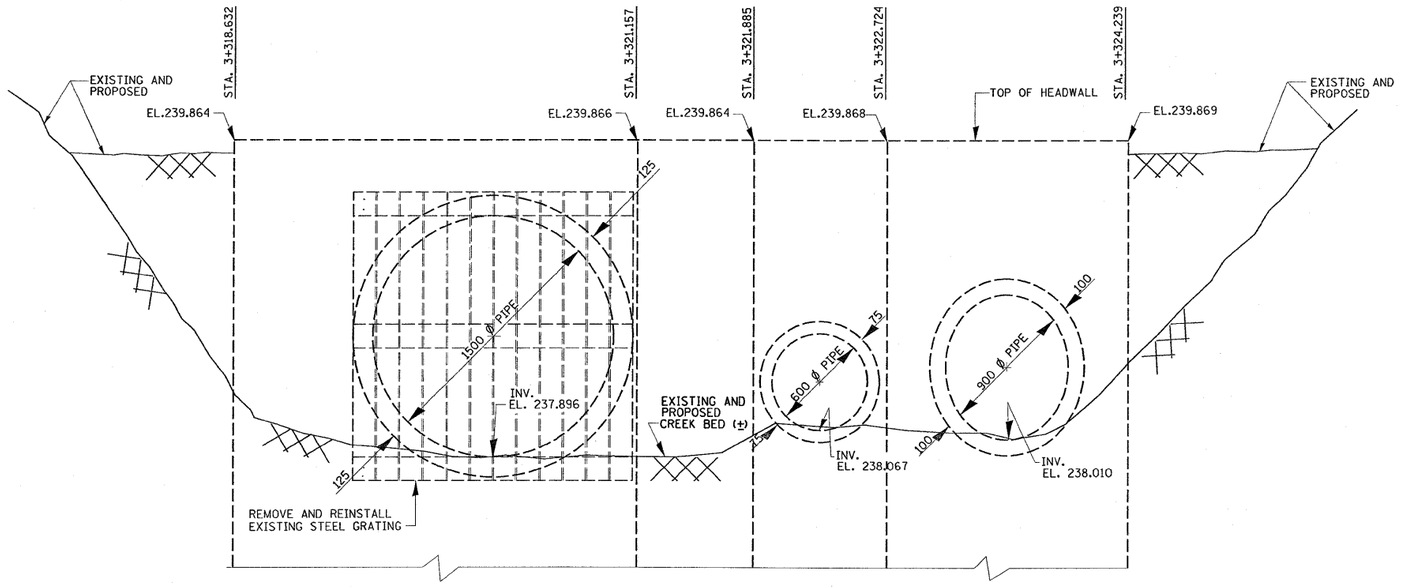
Tue Jul 29 10:42:46 2003
c:\projects\struct1\il83@il132.m32 LV=1-63

DISTRICT ONE - DESIGN
PLAN PREPARATION ENGINEER JOHN FORTMANN / RUSS SINHA (847) 705-4209 / ATTENTION MARK V. TINIAKOS (847) 705-4266

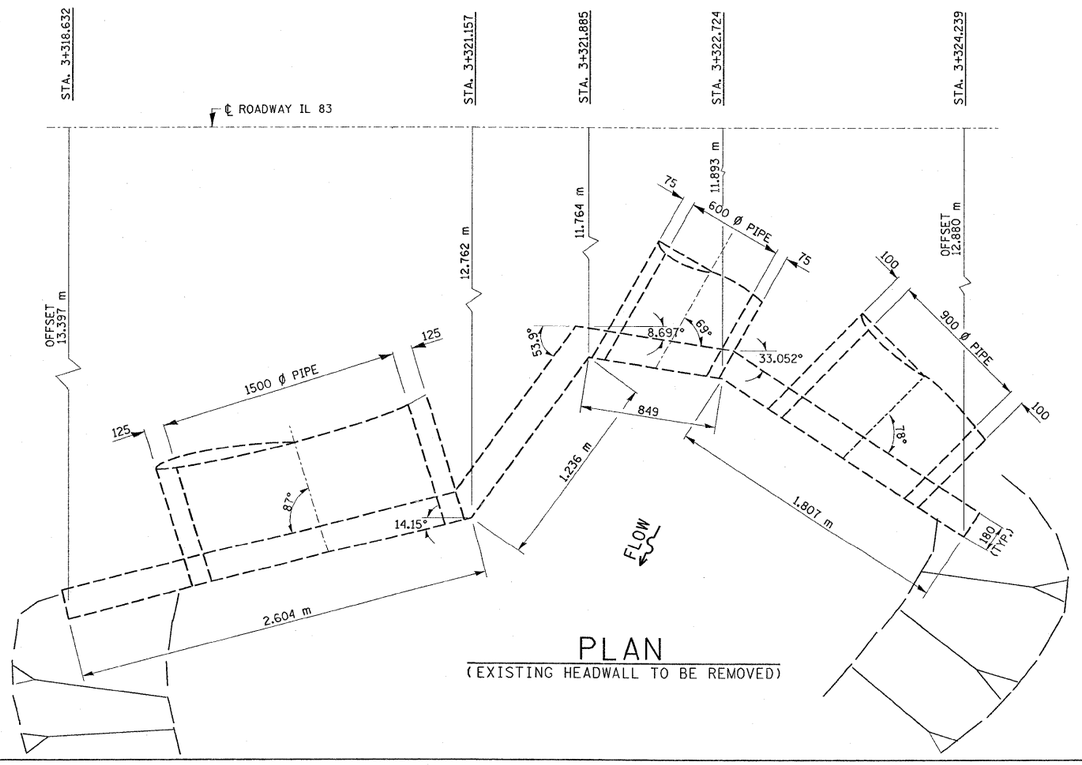
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	99
STA. 3+318.69		TO STA. 3+324.15		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SHEET S1 OF S4

CONTRACT: 60931



ELEVATION
(EXISTING HEADWALL TO BE REMOVED)



PLAN
(EXISTING HEADWALL TO BE REMOVED)

SCOPE OF WORK:

1. DRILL SHAFTS FOR SOLDIER PILES.
2. INSTALL AND ENCASE SOLDIER PILES IN CONCRETE AND CLSM.
3. INSTALL TEMPORARY SOIL RETENTION SYSTEM AS REQUIRED.
4. INSTALL TIMBER LAGGING.
5. REMOVE EXISTING STEEL PIPE GRATING.
6. CUT ALL THE THREE PIPES TO MATCH WITH NEW HEADWALL.
7. INSTALL SHEAR CONNECTORS ON SOLDIER PILES.
8. INSTALL TIMBER LAGGING.
9. INSTALL GEOFABRIC AND FRENCH DRAIN.
10. INSTALL CONCRETE FACING.
11. INSTALL THE PREVIOUSLY REMOVED STEEL PIPE GRATING.
12. REMOVE TEMPORARY SOIL RETENTION SYSTEM.
13. CLEAN CONSTRUCTION SITE.
14. RESTORE SITE TO ITS ORIGINAL CONDITION, AS CLOSE AS POSSIBLE.

GENERAL NOTES:

1. ALL ELEVATIONS ARE IN METERS.
2. ALL DIMENSIONS ARE IN mm EXCEPT AS NOTED.
3. (E) INDICATES REINFORCEMENT BARS EPOXY COATED.
4. USE CLASS SI CONCRETE IN HEADWALL.
5. MINIMUM CLEAR COVER 50 mm. EXCEPT AS NOTED.
6. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 20 mm EXCEPT AS NOTED.
7. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31M OR M332M GRADE 400 DEFORMED BARS.
8. FOR SOIL BORING LOG SEE SHEET S4 OF S4.
9. PIPE OPENINGS AS SHOWN ARE APPROXIMATE.
10. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE FOR THE WORK.
11. ATTACH GRATE TO PIPE AS REQUIRED AND AS APPROVED BY THE ENGINEER.
12. BACK FILLING WILL BE PERFORMED IN ACCORDANCE WITH ARTICLE 502.10 OF STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2002. OR ITS LATEST EDITION.

LEGEND:

CLSM = CONTROLLED LOW STRENGTH MATERIAL.

DESIGN STRESSES:

f'c = 24 MPa
fy = 400 MPa (Reinf.)
fy = 345 MPa (Piles)

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
REINFORCEMENT BARS, EPOXY COATED	KG	604
CONCRETE STRUCTURES	CU. M.	13.5
CONCRETE REMOVAL	CU. M.	3.0
FURNISHING SOLDIER PILES HP 360 x 152	M.	31.2
DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CU. M.	8.2
STRUCTURE EXCAVATION	CU. M.	39.8
STUD SHEAR CONNECTORS	EACH	48
PIPE UNDERDRAINS FOR STRUCTURES	M.	9.1
TEMPORARY SOIL RETENTION SYSTEM	SQ. M.	27
UNTREATED TIMBER LAGGING	SQ. M.	22.7

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL 83 (MILWAUKEE AVENUE) AT IL 132 (GRAND AVENUE) EXISTING CULVERT HEADWALL PLAN AND ELEVATION

SCALE : NONE
DRAWN BY: MVT
DATE : 02/26/04
CHECKED BY: RSS

DISTRICT ONE - DESIGN
PLAN PREPARATION ENGINEER JOHN FORTMANN / RUSS SINHA (847) 705-4209 / ATTENTION MARK V. TINIAKOS (847) 705-4266

10/21/2009
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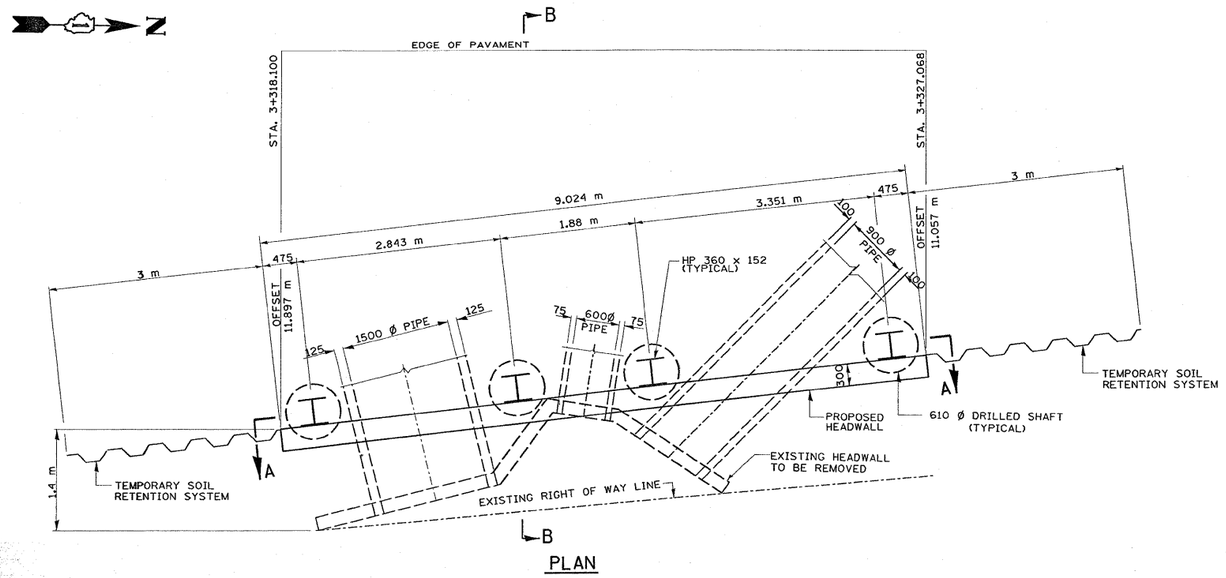
F.A. . RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	4N-1	LAKE	165	100
STA. 3 + 318.69		TO STA. 3 + 324.15		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SHEET S2 OF S4

CONTRACT: 60931



PLAN

NOTE:

- THE CONTRACTOR SHALL SUBMIT A SOIL RETENTION SYSTEM DESIGN INCLUDING PLAN DETAILS AND CALCULATIONS FOR REVIEW AND ACCEPTANCE BY THE ENGINEER.
- FIELD CUT AND SHORE EXISTING PIPES TO FIT SITE CONDITIONS.

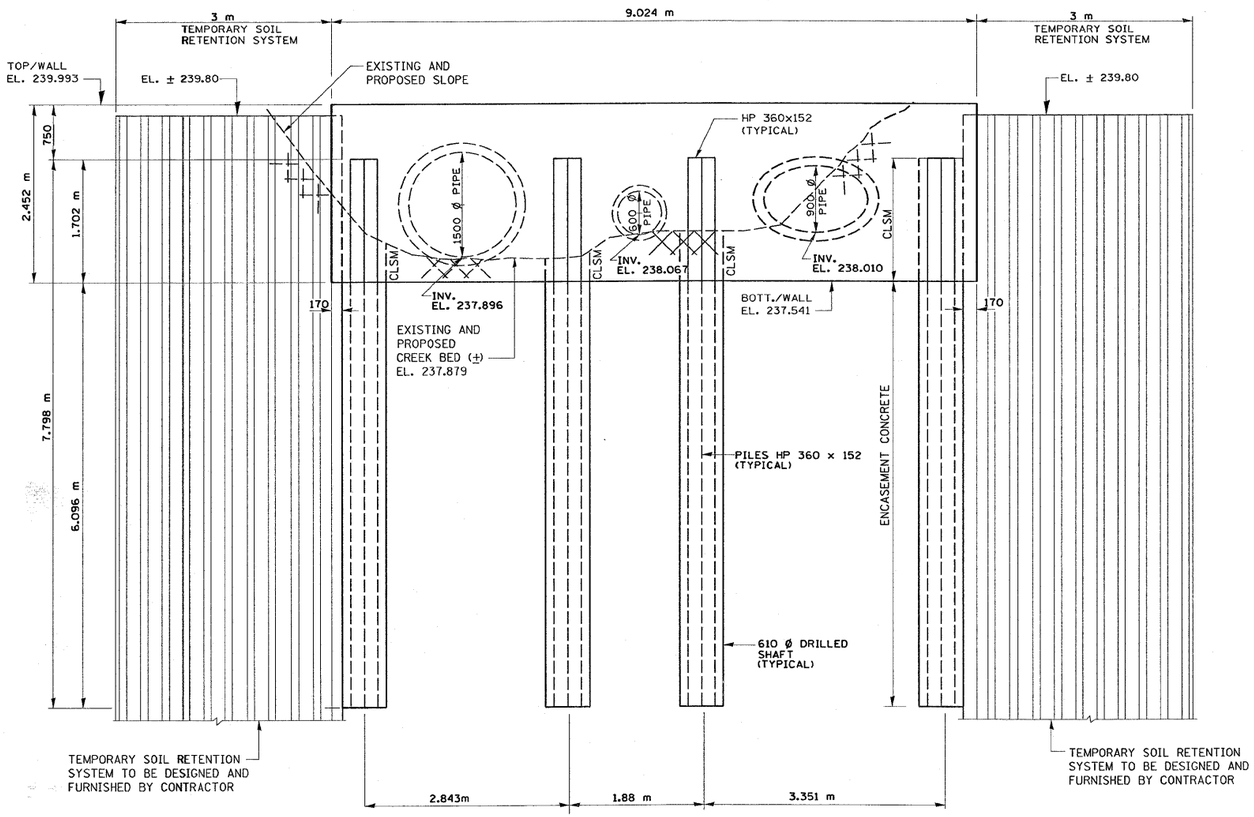
BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU. M.	3.0
STRUCTURE EXCAVATION	CU. M.	36.8
CONCRETE STRUCTURES	CU. M.	6.7
REMOVE AND RE ERECT EXISTING GRATING (*)	EACH	1
CUT SHORE AND ADJUST PIPE 1500 mm (*)	EACH	1
CUT SHORE AND ADJUST PIPE 900 mm (*)	EACH	1
CUT SHORE AND ADJUST PIPE 600 mm (*)	EACH	1
FURNISHING SOLDIER PILES HP 360 x 152	M.	31.2
DRILLING AND SETTING SOLDIER PILE (IN SOIL)	CU. M.	8.2
STUD SHEAR CONNECTORS	EACH	48
TEMPORARY SOIL RETENTION SYSTEM	SQ. M.	27

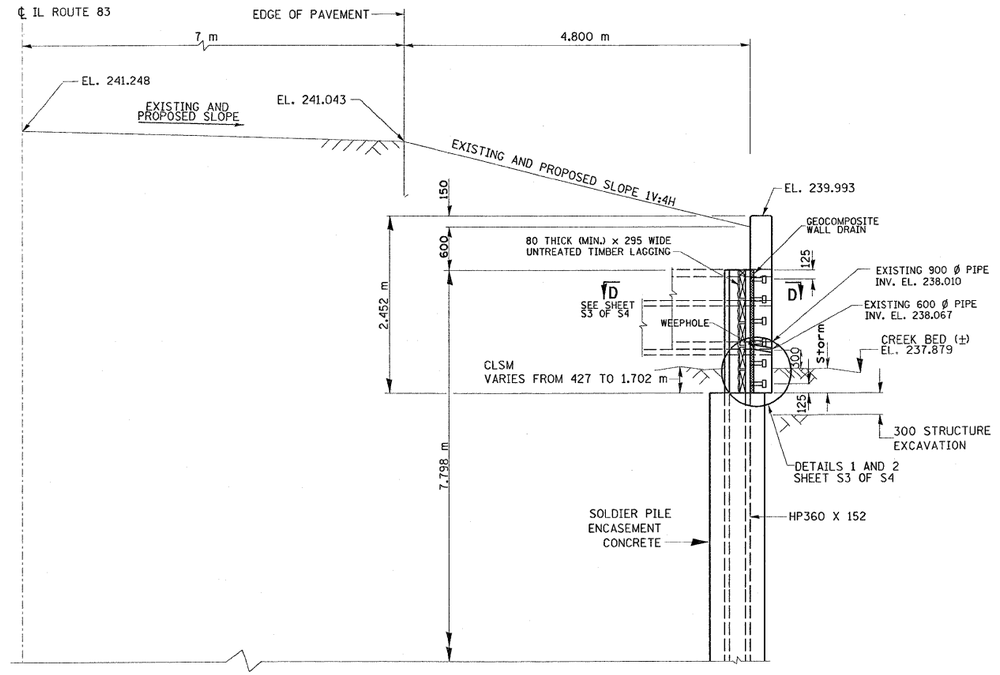
*COST INCLUDED IN CONCRETE STRUCTURES.

CLSM, INCLUDED IN COST OF DRILLING AND SETTING PILES. APPROX. QTY. = 1.0 CU.M.

ENCASEMENT CONCRETE, INCLUDED IN COST OF DRILLING AND SETTING PILES. APPROX. QTY. = 7.2 CU.M.



ELEVATION ALONG A-A



CROSS SECTION B-B

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL 83 (MILWAUKEE AVENUE) AT IL 132 (GRAND AVENUE) CULVERT HEADWALL/ RETAINING WALL PLAN AND ELEVATION

SCALE : NONE — DRAWN BY: MVT

DATE : 02/26/04 — CHECKED BY: RSS

DISTRICT ONE - DESIGN
PLAN PREPARATION ENGINEER JOHN FORTMANN / RUSS SINHA (847) 705-4209 / ATTENTION MARK V. TINIAKOS (847) 705-4266

10/21/2009
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