

04-27-12 LETTING ITEM 137

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAI ROUTE 94: INT 94/US 41 AT RUSSELL ROAD
SECTION 49-1(HB & HB-1)R

BRIDGE REPLACEMENT
LAKE COUNTY
C-91-019-11

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	1
ILLINOIS			CONTRACT NO. 60L76	

D-91-019-11 # 225+7 = 232

FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION

RUSSELL ROAD
400(30) Minor Arterial (Urban) 4.84 (PCC-20)

TRAFFIC DATA

RUSSELL ROAD	FRONTAGE ROAD
EXISTING ADT: 3,500 (2007)	EXISTING ADT: 400 ESTIMATED (2007)
DESIGN ADT: 4,000 (2030)	DESIGN ADT: 450 (2030)
SPEED LIMIT: 45 MPH	SPEED LIMIT: 30 MPH

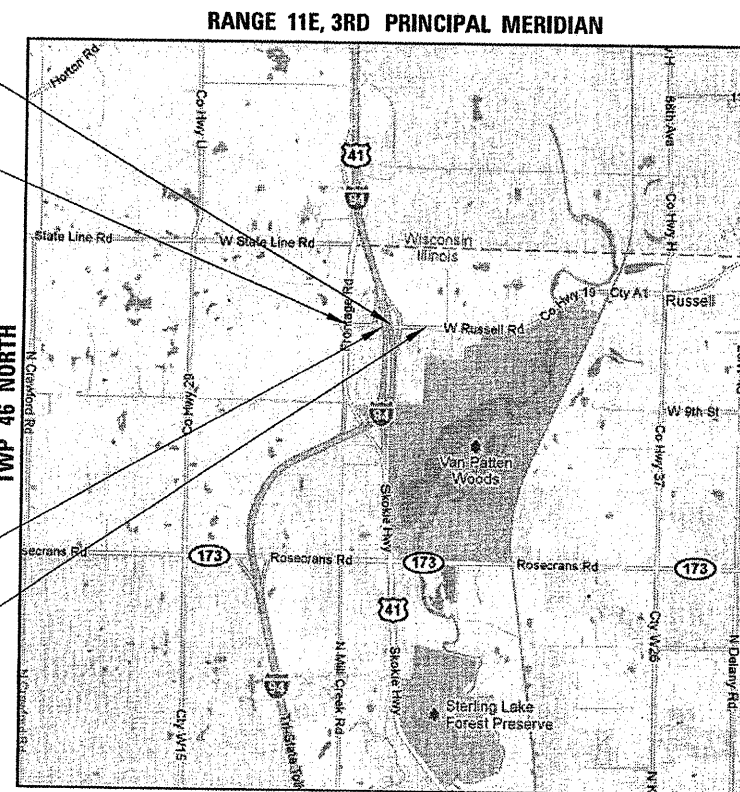
PROJECT LOCATED IN THE VILLAGE OF WADSWORTH

RUSSELL ROAD, F.A.I. I-94(NB)
STRUCTURE NO. 049-0534

PROJECT BEGINS
STA. 00 + 24.84

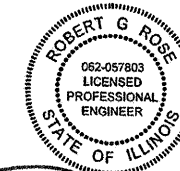
RUSSELL ROAD, F.A.I. I-94(SB)
STRUCTURE NO. 049-0533

PROJECT ENDS
STA. 29 + 22.28



SCALE 1" = 3000'

GROSS LENGTH = 2897.44 FT. = 0.549 MILE
NET LENGTH = 2502.34 FT. = 0.474 MILE



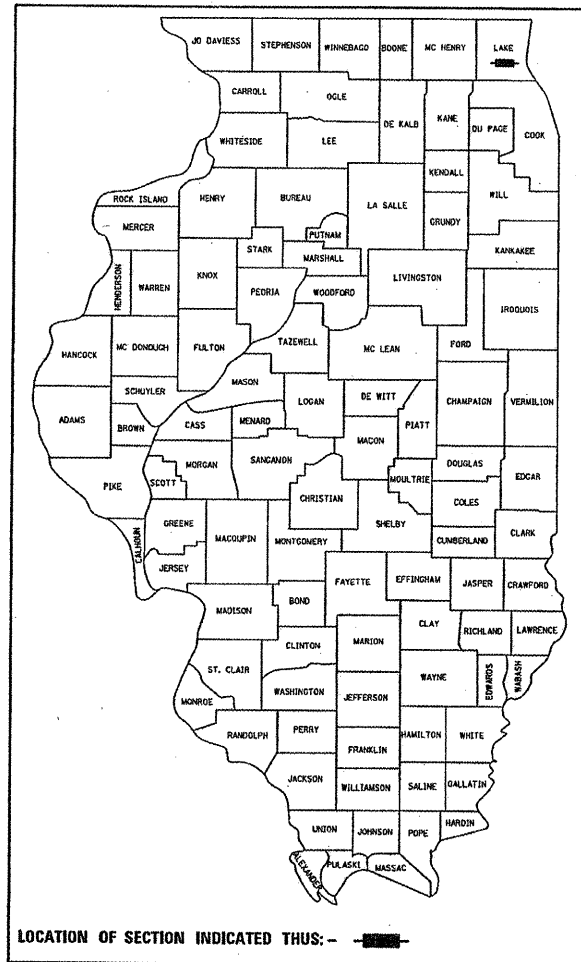
SIGNED: *Robert G. Rose*
DATE: JAN 24, 2012
EXPIRES: 11/30/2013
SHEETS: 1-90 & 179-225



SIGNED: *David L. Taggart*
DATE: JAN 24, 2012
EXPIRES: 11/30/2013
SHEETS: 91-112



SIGNED: *Brian L. Umbright*
DATE: JAN 24, 2012
EXPIRES: 11/30/2012
SHEETS: 113-147, 150, 158-160 & 167-178



LOCATION OF SECTION INDICATED THUS: - ■ -

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED JAN 27 20 12
Diane O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 23 2012
John D. Baranzelli, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

March 23 2012
William P. Fisher
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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

PROJECT MANAGER: RAJENDRA SHAH (847)705-4555

CONTRACT NO. 60L76

SIGNED: *Olufemi A. Oladeinde*
DATE: 1/25/2012
EXPIRES: 11/30/2012
SHEETS: 148-149, 151-157 & 161-166



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HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-06	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
420101-04	24' JOINTED PCC PAVEMENT
420401-08	BRIDGE APPROACH PAVEMENT
424001-06	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424021	DEPRESSED CORNER
424026	ENTRANCE/ALLEY PEDESTRIAN CROSSINGS
483001-04	PCC SHOULDERS
515001-03	NAME PLATE FOR BRIDGES
542101-02	REINFORCED CONCRETE END SECTION FOR PIPE CULVERTS AT RIGHT ANGLES WITH ROADWAY
542300-03	PRECAST REINFORCED CONCRETE FLATED END SECTION
601001-04	SUB-SURFACE DRAINS
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
602001-02	CATCH BASIN TYPE A
602301-03	INLET - TYPE A
602401-03	MANHOLE TYPE A
604001-03	FRAME AND LIDS TYPE 1
604036-02	GRATE TYPE B
604071-04	FRAME AND GRATE TYPE 20
606006-02	OUTLETS FOR CONCRETE CURB AND GUTTER TYPE B6.24
606001-04	CONCRETE CURB TYPE B AND COMBINATION CURB AND GUTTER
606301-04	PC CONCRETE ISLAND AND MEDIANS
630001-10	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-10	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
664001-02	CHAIN LNK FENCE
665001-02	WOVEN WIRE FENCE
701006-03	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W DAY ONLY FOR SPEEDS > 45 MPH
701206-03	LANE CLOSURE, 2L, 2W NIGHT ONLY FOR SPEEDS > 45MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W SLOW MOVING OPERATIONS DAY ONLY FOR SPEEDS > 45 MPH
701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS DAY ONLY
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING FOR SPEEDS > 45 MPH
701400-05	APPROACH TO LANE CLOSURE, FREEWAY / EXPRESSWAY
701401-06	LANE CLOSURE, FREEWAY / EXPRESSWAY
701411-08	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701422-04	LANE CLOSURE, MULTILANE, FOR SPEEDS > 45 MPH TO 55 MPH
701426-04	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS > 45 MPH
701427	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS < 40 MPH
701446-03	TWO LANE CLOSURE FREEWAY/EXPRESSWAY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-02	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-03	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
782001	PRISMATIC CURB REFLECTORS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED UTILITIES.
- THE CONTRACTOR SHALL COORDINATE WORK ACTIVITIES WITH UTILITY COMPANIES AS REQUIRED.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470, AND THE EXPRESSWAYS TRAFFIC CONTROL SUPERVISOR AT (847) 705-4151 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK AND AGAIN AT LEAST 72 HOURS PRIOR TO FINAL PAVEMENT MARKING INSTALLATION.
- THE CONTRACTOR SHALL USE CARE IN WORKING NEAR ANY AND ALL EXISTING ITEMS THAT WILL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT AND PROVIDE ACCESS TO ABUTTING PROPERTY, UTILITIES, PEDESTRIANS, AND VEHICULAR TRAFFIC.
- SAW CUTTING IS INCLUDED TO THE PROPOSED ITEM OF WORK SPECIFIED, UNLESS OTHERWISE SHOWN IN PLAN.
- WHERE ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL ISTHA FIBER UTILITIES PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL INITIATE THE LOCATION PROCESS FOR THE FIBER OPTIC CABLE BY COMPLETING A "REQUEST TOLLWAY UTILITIES LOCATE" FORM FILLED IN ONLINE AT THE TOLLWAY WEBSITE UNDER "DOING BUSINESS" AT LEAST FOUR BUSINESS DAYS PRIOR TO STARTING ANY UNDERGROUND OPERATIONS WITHIN 200' OF I-94.
- TEMPORARY EDGE LINES IN THE SUGGESTED MAINTENANCE OF TRAFFIC MUST BE INSTALLED BEFORE LANES REOPEN TO TRAFFIC.
- VERTICAL PANELS OR BARRELS WILL REMAIN IN PLACE ALONG THE EDGES OF PAVEMENT AS SHOWN IN THE SUGGESTED MAINTENANCE OF TRAFFIC PLANS UNTIL THE SURFACE COURSE AND PROPOSED PAVEMENT MARKING EDGE LINES HAVE BEEN COMPLETED.
- SURFACE TESTING OF ASPHALT PAVEMENTS WILL BE PERFORMED BY THE CONTRACTOR AS DESCRIBED IN THE CONTRACT SPECIAL PROVISIONS AND THE COST SHALL BE INCLUDED IN THE COST OF THE HMA ITEMS BEING TESTED.
- THE CONTRACTOR SHALL COORDINATE WITH BRETT MASON OF THE LAKE COUNTY DIVISION OF TRANSPORTATION AT (847) 878-9804 TO COORDINATE PLACE OF PERMENANT SIGNING PRIOR TO ANY TRAFFIC SHIFTS. WITHIN TWO WEEKS OF THE CONTRACTOR'S NTP, THE CONTRACTOR SHALL PROVIDED A DETAILED LIST OF WHICH NEEDED TO BE INSTALLED WITH A CORRESPONDING ESTIMATED DATE.
- PIPE UNDERDRAINS 4" (SPECIAL) WILL OUTLET THE PIPE UNDERDRAIN EVERY 500' LONGITUDINALLY, AND A CONCRETE HEADWALL FOR PIPE DRAINS WILL BE PLACED WHERE THE PIPE DAYLIGHTS.
- BACKFILL MATERIAL UTILIZED FOR THE INSTALLATION OF THE PIPE UNDERDRAIN AND PIPE UNDERDRAIN (SPECIAL) PAY ITEMS WILL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAIN, 4".
- THIS PROJECT WILL REQUIRE A PERMIT IN ACCORDANCE WITH GENERAL NPDES PERMIT NO. ILR10 BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY. SEE CONTRACT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS.
- FARM TILE SHOWN IN THE DRAINAGE PLAN WAS TAKEN FROM THE 1958 ORIGINAL CONSTRUCTION RECORD DRAWINGS. IF THE CONTRACTOR ENCOUNTERS FUNCTIONING FIELD TILE, THE FLOW WILL BE MAINTAINED AS DIRECTED BY THE ENGINEER. IF THE FIELD TILE IS NOT FUNCTIONING, THE CONTRACTOR SHALL PLUG AND ABANDON IT AS DIRECTED BY THE ENGINEER.
- ON STATE STANDARDS 482001 AND 483001 AGGREGATE SUBGRADE 12" SHALL BE USED AS THE IMPROVED SUBGRADE. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE UNDER THE SHOULDER SHALL BE INCLUDED IN THE COST PER SQUARE YARD OF AGGREGATE SUBGRADE 12".
- ALL PCC JOINTED PAVEMENT CONSTRUCTED AS PART OF THE PROJECT SHALL BE CONSTRUCTED ACCORDING TO THE CONTRACT PROVISION "EXTENDED LIFE CONCRETE PAVEMENT (30 YEAR)"
- FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURB AND GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR CRC PAVEMENT, SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLAN.
- TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS THE ENGINEER SHALL CONTACT DEBBIE HANLON, AREA TRAFFIC FIELD TECHNICIAN, AT (847) 438-2300.

HOT-MIX ASPHALT REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes	THICKNESS
MULTI-USE PATH HMA SURFACE COURSE, MIX "D", N50 (IL 9.5mm)	4% @ 50 GYR	3"
HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 9" (FRONTAGE ROAD) HMA BINDER COURSE, IL 19.0, N70 HMA SURFACE COURSE, MIX "D", N70 (IL 9.5mm)	4% @ 70 GYR 4% @ 70 GYR	2 1/4" MIN 2"
TEMPORARY PAVEMENT HMA BINDER COURSE, IL 19.0, N50 HMA SURFACE COURSE, MIX "D", N50 (IL 9.5mm)	4% @ 50 GYR 4% @ 50 GYR	2 1/4" MIN 2"
DRIVEWAYS/PARKING LOTS/HMA STABILIZATION 6" AT SPBGR HMA BINDER COURSE, IL 19.0, N50 HMA SURFACE COURSE, MIX "D", N50 (IL 9.5mm)	4% @ 50 GYR 4% @ 50 GYR	2 1/4" MIN 2"
STABILIZED SUBBASE HOT-MIX ASPHALT, 4 1/2" STABILIZED SUBBASE HMA, (IL-19.0 mm)	3% @ 50 GYR	4 1/2"
MILL CREEK ROAD HMA BINDER COURSE, IL 19.0, N50 HMA SURFACE COURSE, MIX "D", N50 (IL 9.5mm)	4% @ 50 GYR 4% @ 50 GYR	2 1/4" 1 1/2"

- THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX SURFACE MIXTURES IS 112 LBS/50 YD/INCH THICKNESS.
- FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.
- THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS."
- PCC TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ART. 1020 OF THE STANDARD SPECIFICATIONS", 10" THICK

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FILE NAME = #FILES#	USER NAME = default	DESIGNED - RGR	REVISED -
		DRAWN - RGR	REVISED -
PLOT SCALE = #SCALE#		CHECKED - RGR	REVISED -
PLOT DATE = 3/9/2012		DATE - 03/09/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, GENERAL NOTES

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	2
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

Rev.

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SUMMARY OF QUANTITIES										SUMMARY OF QUANTITIES									
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE						UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE							
				0003	0003 20% LOCAL 80% STATE	0003 100% LOCAL	0010 SN 049-0533	0010 SN 049-0534	0021 SAFETY			0003	0003 20% LOCAL 80% STATE	0003 100% LOCAL	0010 SN 049-0533	0010 SN 049-0534	0021 SAFETY		
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	150	150						35800100	PREPARATION OF BASE	SO YD	8,440	6,875		1,565 (W)			
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	58	58						35800200	AGGREGATE BASE REPAIR	TON	246	200		46 (W)			
20100500	TREE REMOVAL, ACRES	ACRE	2	2						40200900	AGGREGATE SURFACE COURSE, TYPE B	CU YD	64	53		11 (W)			
20101100	TREE TRUNK PROTECTION	EACH	8	8						40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	3,029	1,375	1,341	313 (W)			
20200100	EARTH EXCAVATION	CU YD	17515	17515						40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	1,063	866		197 (W)			
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	3769	3769						40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	1153	591	432	130 (W)			
20400800	FURNISHED EXCAVATION	CU YD	82630	82630						40701861	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9"	SO YD	2,235	2,235					
20600200	GRANULAR EMBANKMENT, SPECIAL	CU YD	5,725	5,725						42000521	PORTLAND CEMENT CONCRETE PAVEMENT 11" (JOINTED)	SO YD	12,898	12,898					
20800150	TRENCH BACKFILL	CU YD	192	192						42000541	PORTLAND CEMENT CONCRETE PAVEMENT 12" (JOINTED)	SO YD	3,736	3,736					
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	28035	28035						42001300	PROTECTIVE COAT	SO YD	10,143	10,143					
21101685	TOPSOIL FURNISH AND PLACE, 24"	SQ YD	206	206						42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SO YD	578	578					
21101805	COMPOST FURNISH AND PLACE, 2"	SQ YD	1,120	1,120						42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	1793	1793					
25200110	SODDING, SALT TOLERANT	SQ YD	4900	4900						42400800	DETECTABLE WARNINGS	SO FT	553	553					
25000100	SEEDING, CLASS 1	ACRE	1	1						44000100	PAVEMENT REMOVAL	SO YD	13888	13888					
25000210	SEEDING, CLASS 2A	ACRE	1.25	1.25						44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	1,200	1,200					
25000300	SEEDING, CLASS 3	ACRE	5	5						44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	2,292	2,292					
25000310	SEEDING, CLASS 4	ACRE	11.5	11.5						44004000	PAVED DITCH REMOVAL	FOOT	314	314					
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	115	115						44004250	PAVED SHOULDER REMOVAL	SO YD	3,903	3,903					
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	115	115						48101500	AGGREGATE SHOULDERS, TYPE B 6"	SO YD	2,730	2,576		154 (W)			
25100105	MULCH, METHOD 1	ACRE	12.75	12.75						48300600	PORTLAND CEMENT CONCRETE SHOULDERS 11"	SO YD	3,040	3,040					
25100135	MULCH, METHOD 4	ACRE	0.5	0.5						48300700	PORTLAND CEMENT CONCRETE SHOULDERS 12"	SO YD	1,886	1,886					
25100630	EROSION CONTROL BLANKET	SQ YD	66265	66265						50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1			1			
25100900	TURF REINFORCEMENT MAT	SQ YD	319	319						50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1				1		
25200200	SUPPLEMENTAL WATERING	UNIT	132.5	132.5						50105220	PIPE CULVERT REMOVAL	FOOT	64	64					
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1,912	1,912						50157300	PROTECTIVE SHIELD	SO YD	528			288	240		
28000305	TEMPORARY DITCH CHECKS	FOOT	37	37						50200100	STRUCTURE EXCAVATION	CU YD	4163	964		2,159	1,040		
28000400	PERIMETER EROSION BARRIER	FOOT	12,436	12,436						50300225	CONCRETE STRUCTURES	CU YD	503.2			266.4	236.8		
28100101	STONE RIPRAP, CLASS A1	SQ YD	269	269						50300255	CONCRETE SUPERSTRUCTURE	CU YD	1,121.9			6.2(L) 422.9	692.8		
31200502	STABILIZED SUBBASE - HOT-MIX ASPHALT, 4 1/2"	SQ YD	20,722	20,722						50300260	BRIDGE DECK GROOVING	SO YD	2,441			1,147	1,294		
35101500	AGGREGATE BASE COURSE, TYPE B	CU YD	645		645					50300300	PROTECTIVE COAT	SO YD	4,000			1,943	2,057		
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SO YD	100	100															
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SO YD	51	51															

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* SPECIALTY ITEMS
NOTES:
1. COLUMN FOR "0003 20% LOCAL 80% STATE" THE LOCAL AGENCY IS LAKE COUNTY HIGHWAY DEPARTMENT
2. COLUMN FOR "0003 100% LOCAL" THE LOCAL AGENCY IS VILLAGE OF WADSWORTH

3.(W)-100% VILLAGE OF WADSWORTH
4.(L)-100% LAKE COUNTY

FILE NAME * #FILES*	USER NAME * #DEFAULT	DESIGNED - RGR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		SUMMARY OF QUANTITIES		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - RGR	REVISED -					94	49-1HB & HB-1JR	LAKE	225	3
PLOT SCALE * #SCALE*		CHECKED - RGR	REVISED -					CONTRACT NO. 60L76				
PLOT DATE * 2/18/2012		DATE - 01/25/2012	REVISED -					ILLINOIS FED. AID PROJECT				

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07A0J 07C0J 07P0S
 80% STATE 100% STATE 100% STATE

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE					
				0003	0003 20% LOCAL 80% STATE	0003 100% LOCAL	0010 SN 049-0533	0010 SN 049-0534	0021 SAFETY
50500305	ERECTING STRUCTURAL STEEL	L SUM	1				0.45	0.55	
50500505	STUD SHEAR CONNECTORS	EACH	5,148				2,376	2,772	
50800105	REINFORCEMENT BARS	POUND	390	390					
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	369,580				182,490	187,090	
50800515	BAR SPLICERS	EACH	344				172	172	
50901735	BRIDGE FENCE RAILING (SIDEWALK)	FOOT	393			** 66(L)	157	170	
50901750	PARAPET RAILING	FOOT	387			*** 90(L)	143	154	
51200957	FURNISHING METAL SHELL PILES 12" X 0.250"	FOOT	4,827				2,489	2,338	
51202305	DRIVING PILES	FOOT	4,827				2,489	2,338	
51203200	TEST PILE METAL SHELLS	EACH	4				2	2	
51204650	PILE SHOES	EACH	88				44	44	
51500100	NAME PLATES	EACH	2				1	1	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	348				174	174	
52100210	ERECTING ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	22				11	11	
52100520	ANCHOR BOLTS, 1"	EACH	88				44	44	
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	12	12					
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	4	4					
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	1	1					
54215436	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 36"	EACH	1	1					
54215448	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 48"	EACH	2	2					
542A1060	PIPE CULVERTS, CLASS A, TYPE 2 15"	FOOT	74	74					
542A2761	PIPE CULVERTS, CLASS A, TYPE 4 36"	FOOT	25	25					
542A4663	PIPE CULVERTS, CLASS A, TYPE 7 48"	FOOT	88	88					
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	785	785					
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	81	81					
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	412	412					
550A0640	STORM SEWERS, CLASS A, TYPE 3 12"	FOOT	43	43					
550A0940	STORM SEWERS, CLASS A, TYPE 4 12"	FOOT	48	48					
55100200	STORM SEWER REMOVAL 6"	FOOT	28	28					
55100500	STORM SEWER REMOVAL 12"	FOOT	305	305					

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE					
				0003	0003 20% LOCAL 80% STATE	0003 100% LOCAL	0010 SN 049-0533	0010 SN 049-0534	0021 SAFETY
55101200	STORM SEWER REMOVAL 24"	FOOT	25	25					
58700300	CONCRETE SEALER	SQ FT	3,175				1,528	1,647	
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	24	24					
60107600	PIPE UNDERDRAINS 4"	FOOT	8,709	8,709					
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	705	705					
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	3	3					
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1	1					
60201310	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 20 FRAME AND GRATE	EACH	27	27					
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4	4					
60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1	1					
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1					
60237420	INLETS, TYPE A, TYPE 20 FRAME AND GRATE	EACH	3	3					
60500040	REMOVING MANHOLES	EACH	1	1					
60500050	REMOVING CATCH BASINS	EACH	1	1					
60500060	REMOVING INLETS	EACH	6	6					
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	6	6					
60600605	CONCRETE CURB, TYPE B	FOOT	196	60	136				
60602800	CONCRETE GUTTER, TYPE B	FOOT	630	630					
60603500	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06	FOOT	54	54					
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	1,495	1,495					
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	3,159	3,159					
60608300	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12	FOOT	1,740	1,740					
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1564.5	1564.5					
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	4	4					
63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1	1					
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2					
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	5	5					
63200310	GUARDRAIL REMOVAL	FOOT	1,524	1,524					
63300705	RUB RAIL	FOOT	93	93					
63500105	DELINEATORS	EACH	98	98					

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• SPECIALTY ITEMS
 NOTES:
 1. COLUMN FOR "0003 20% LOCAL 80% STATE" THE LOCAL AGENCY IS LAKE COUNTY HIGHWAY DEPARTMENT
 2. COLUMN FOR "0003 100% LOCAL" THE LOCAL AGENCY IS VILLAGE OF WADSWORTH

3. (W) 100% VILLAGE OF WADSWORTH
 4. (L) 100% LAKE COUNTY

** 32 FT. SN 049-0533, 34 FT. SN 049-0534
 *** 43 FT. SN 049-0533, 47 FT. SN 049-0534
 Rev.

FILE NAME : #FILES#	USER NAME : default	DESIGNED - RGR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		SUMMARY OF QUANTITIES		F.A. RTE. 94	SECTION 49-(HB & HB-1)R	COUNTY LAKE	TOTAL SHEETS 225	SHEET NO. 4
PLOT SCALE : #SCALE#	PLOT DATE : 2/18/2012	DRAWN - RGR	REVISED -	SCALE: NA	SHEET NO. 2 OF 4 SHEETS	STA. NA	TO STA. NA	CONTRACT NO. 60L76				
CHECKED - RGR	DATE - 01/25/2012	REVISOR -	REVISOR -	ILLINOIS FED. AID PROJECT								

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CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	SUMMARY OF QUANTITIES						CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	SUMMARY OF QUANTITIES								
				URBAN		80% STATE		100% STATE						URBAN		80% STATE		100% STATE				
				0003	0003	0003	0010	0010	0021					0003	0003	0010	0010	0021				
66400105	CHAIN LINK FENCE, 4'	FOOT	2769	2769								78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	3571	3571						
66406400	CHAIN LINK GATES, 4'X24' DOUBLE	EACH	1	1								78008240	POLYUREA PAVEMENT MARKING TYPE I - LINE 8"	FOOT	1234	1234						
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	13	13								78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	2814	2814						
67000600	ENGINEER'S FIELD LABORATORY	CAL MO	13	13								78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	538	538						
67100100	MOBILIZATION	L SUM	1	1								78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	89	89						
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	56	56								78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	8	8						
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	28,800	28,800								78200300	PRISMATIC CURB REFLECTOR	EACH	22	22						
70300550	PAVEMENT MARKING TAPE, TYPE III 8"	FOOT	671	671								78200410	GUARDRAIL MARKERS, TYPE A	EACH	13	13						
70300570	PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	141	141								78200530	BARRIER WALL MARKERS, TYPE C	EACH	824	824						
70301000	WORKZONE PAVEMENT MARKING REMOVAL	SQ FT	7,225	7,225								78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4						
70400100	TEMPORARY CONCRETE BARRIER	FOOT	4637.5	4637.5								78300100	PAVEMENT MARKING REMOVAL	SQ FT	2,059	2,059						
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	6075	6075								80400100	ELECTRIC SERVICE INSTALLATION	EACH	1							1
72000100	SIGN PANEL - TYPE 1	SQ FT	147	147								80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1							1
72000200	SIGN PANEL - TYPE 2	SQ FT	34	34								80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	2	2						
72000300	SIGN PANEL - TYPE 3	SQ FT	258	258								81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	68							68
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	16	16								81100800	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., GALVANIZED STEEL	FOOT	80							80
72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	16	16								81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	617							617
72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	27	27								81300610	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 14" X 12" X 6"	EACH	4							4
72400330	REMOVE SIGN PANEL - TYPE 3	SQ FT	203	203								81603090	UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	502							502
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	2,210	2,210								81702400	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	96							96
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	18	18								81702410	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 4	FOOT	695							695
73000100	WOOD SIGN SUPPORT	FOOT	328	328								81800320	AERIAL CABLE, 3-1/C NO. 4 WITH MESSENGER WIRE	FOOT	4233							4233
73400100	CONCRETE FOUNDATIONS	CU YD	5	5								82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	23							23
73700100	REMOVE GROUND MOUNTED SIGN SUPPORT	EACH	4	4								83057355	LIGHT POLE, WOOD, 60 FOOT, CLASS 4, WITH 15FT MAST ARM	EACH	21							21
73700200	REMOVE CONCRETE FOUNDATION - GROUND MOUNT	EACH	4	4								84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	2							2
78000200	THERMOPLASTIC PAVEMENT MARKING-LINE 4"	FOOT	15,532	13,048								84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	8							8
78005140	EPOXY PAVEMENT MARKING - LINE 8"	FOOT	1298	1298								84200804	REMOVAL OF POLE FOUNDATION	EACH	8							8
78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	946	946								85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1						
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	35001	35001								86000105	MASTER CONTROLLER (SPECIAL)	EACH	1	1						
78008220	POLYUREA PAVEMENT MARKING TYPE I - LINE 5"	FOOT	11766	11766																		

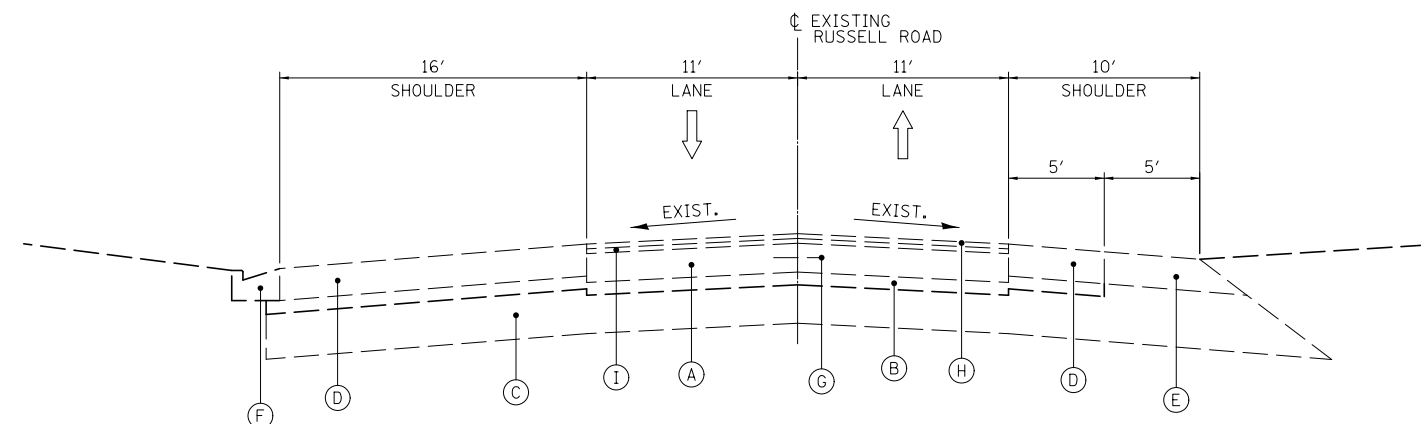
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* SPECIALTY ITEMS
NOTES:
1. COLUMN FOR "0003 20% LOCAL 80% STATE" THE LOCAL AGENCY IS LAKE COUNTY HIGHWAY DEPARTMENT
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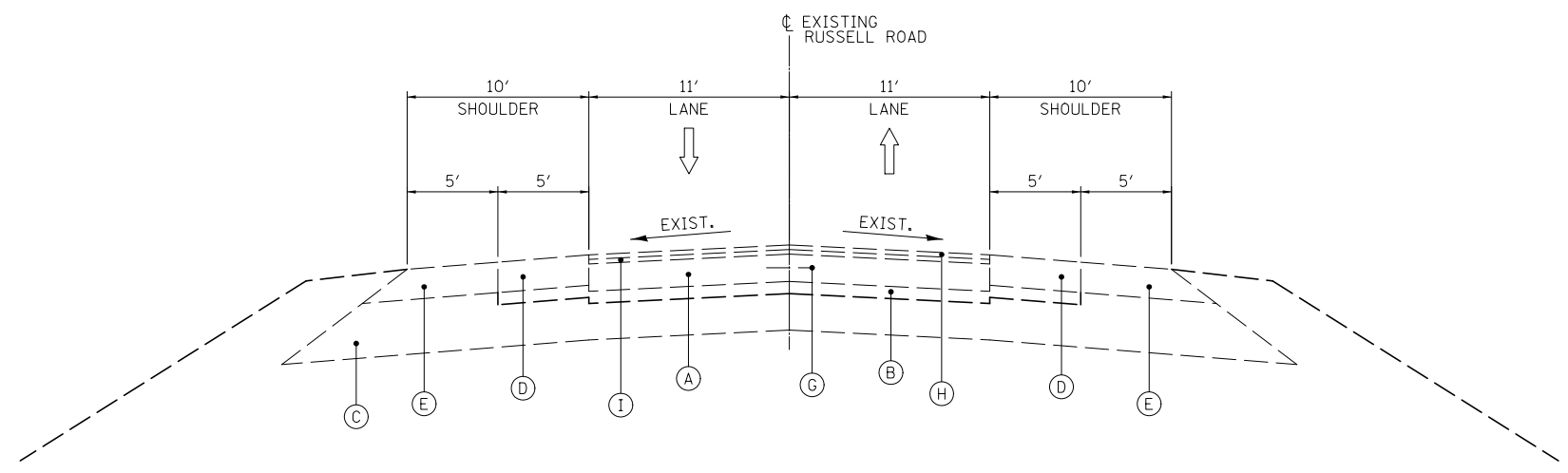
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PLDT SCALE = #SCALE#	CHECKED - RGR	DATE 01/25/2012	REVISED -	SCALE: NA	SHEET NO. 3 OF 4 SHEETS	STA. NA	TO STA. NA	CONTRACT NO. 60L76 ILLINOIS FED. AID PROJECT				

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EXISTING
STA 00+24.84 TO STA 5+42

- EXISTING LEGEND**
- (A) EXISTING P.C.C. PAVEMENT, 10"
 - (B) EXISTING STABILIZED SUB-BASE, 4"
 - (C) EXISTING AGGREGATE SUB-GRADE, 12"
 - (D) EXISTING BITUMINOUS CONCRETE SHOULDER, 10"
 - (E) EXISTING AGGREGATE SHOULDER (TYPICAL)
 - (F) EXISTING CURB & GUTTER
 - (G) EXISTING TIE BAR
 - (H) EXISTING BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE MIX "D", N70 (1 1/2")
 - (I) EXISTING BITUMINOUS CONCRETE BINDER COURSE, MIX "B", TYPE 2 (1 1/2")



EXISTING
STA 5+42 TO STA 29+22.28

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

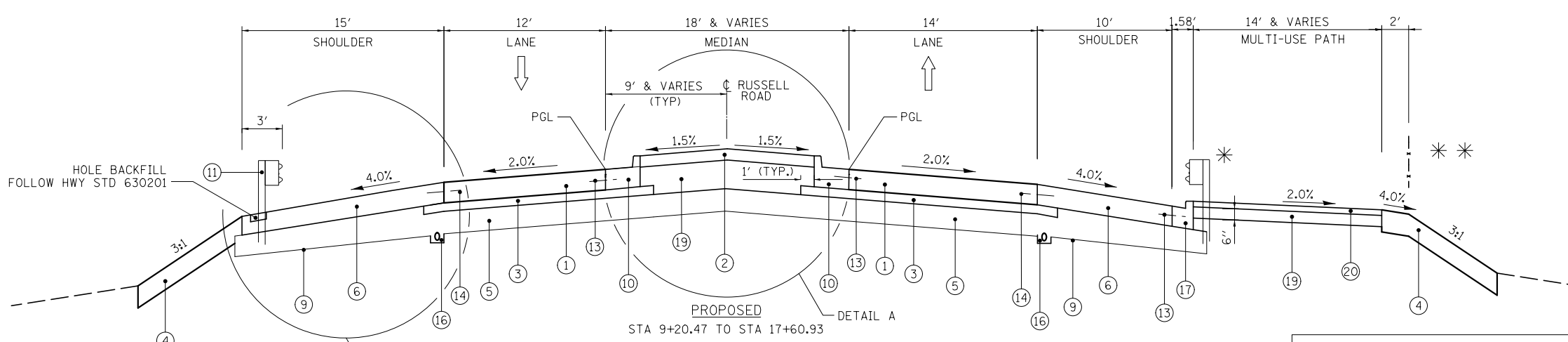
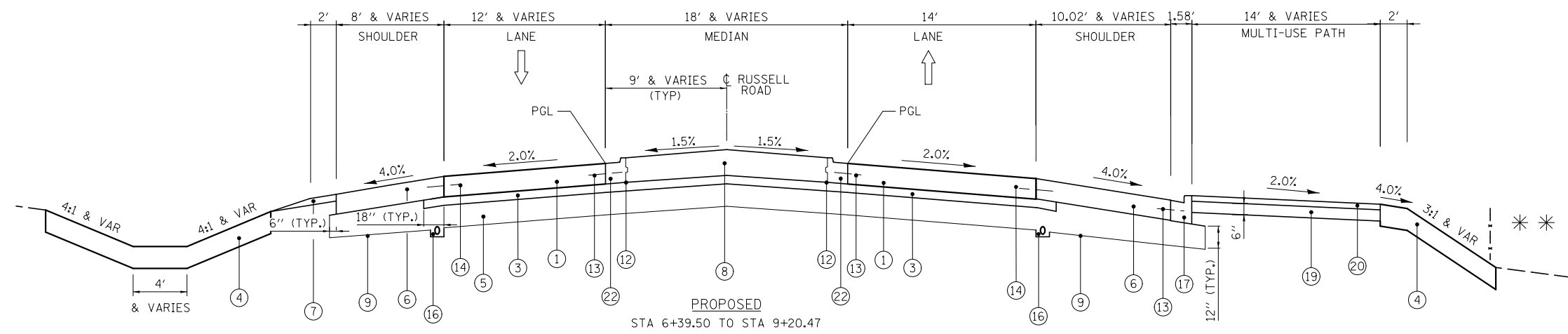
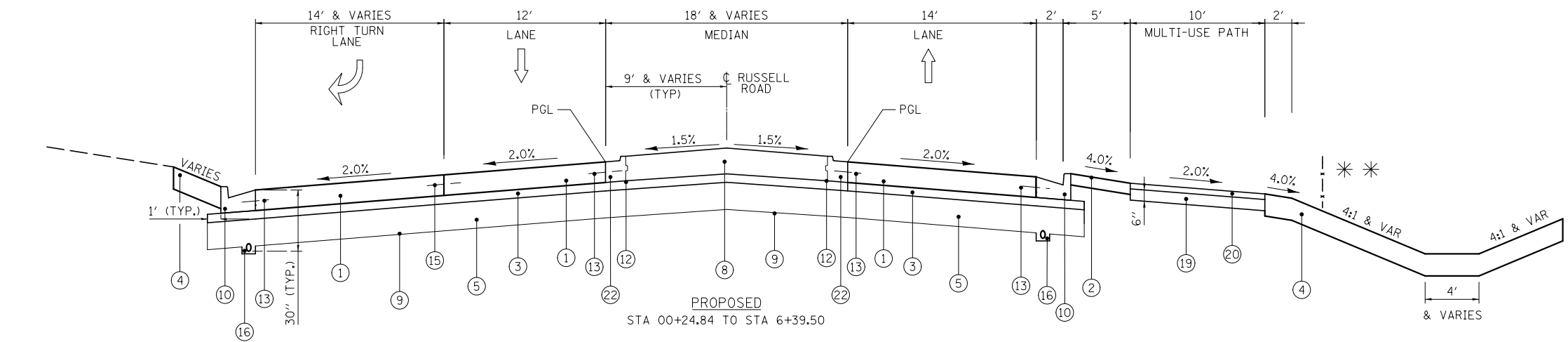
SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	7
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

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PROPOSED LEGEND

- ① PORTLAND CEMENT CONCRETE PAVEMENT, 11" (JOINTED)
- ② STAMPED COLORED P.C.C. MEDIAN SURFACE 6 INCH (SPECIAL)
- ③ STABILIZED SUBBASE - HOT MIX ASPHALT, 4 1/2"
- ④ TOPSOIL EXCAVATION AND PLACEMENT (1')
- ⑤ AGGREGATE SUB-GRADE IMPROVEMENT, 12"
- ⑥ PORTLAND CEMENT CONCRETE SHOULDERS, 11"
- ⑦ AGGREGATE SHOULDER, 6", TYPE B
- ⑧ STAMPED COLORED P.C.C. MEDIAN SURFACE 13 INCH (SPECIAL)
- ⑨ GEOTECHNICAL FABRIC
- ⑩ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ⑪ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- ⑫ LONGITUDINAL KEYED CONSTRUCTION JOINT PER STD. 420001 (SHALL BE INCLUDED IN THE COST OF STAMPED COLORED P.C.C. MEDIAN SURFACE 13 INCH (SPECIAL))
- ⑬ LONGITUDINAL CONSTRUCTION JOINT. DRILL AND GROUT NO. 6 DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF THE APPLICABLE COMB. CONC. CURB & GUTTER TYPE)
- ⑭ LONGITUDINAL CONSTRUCTION JOINT. DRILL AND GROUT NO. 6 DEFORMED EPOXY TIE BARS 30" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE SHOULDERS, 11")
- ⑮ LONGITUDINAL SAWED OR CONSTRUCTION JOINT. FOR LONGITUDINAL SAWED JOINT, POUR IN PLACE NO. 6 DEFORMED EPOXY TIE BARS 30" LONG AT 30" C-C. FOR LONGITUDINAL CONSTRUCTION JOINT, DRILL AND GROUT NO. 8 DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE PAVEMENT, 11" (JOINTED))
- ⑯ PIPE UNDERDRAIN, 4"
- ⑰ COMBINATION CURB & GUTTER, TYPE B-6.12
- ⑱ CONCRETE MEDIAN, TYPE SM (SPECIAL)
- ⑲ AGGREGATE BASE COURSE, TYPE B
- ⑳ HOT MIX ASPHALT SURFACE COURSE MIX "D", N50 (3")
- ㉑ HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARDRAIL
- ㉒ COMBINATION CONCRETE CURB & GUTTER, TYPE M-2.12 (SPECIAL)

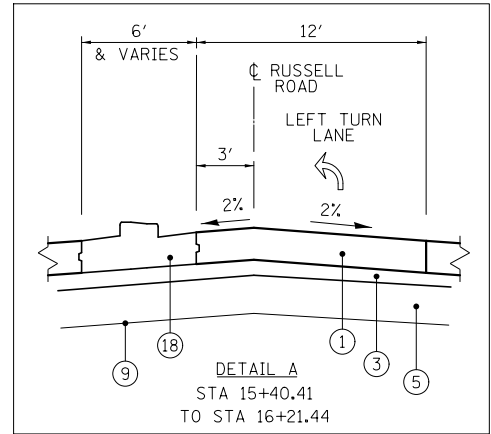
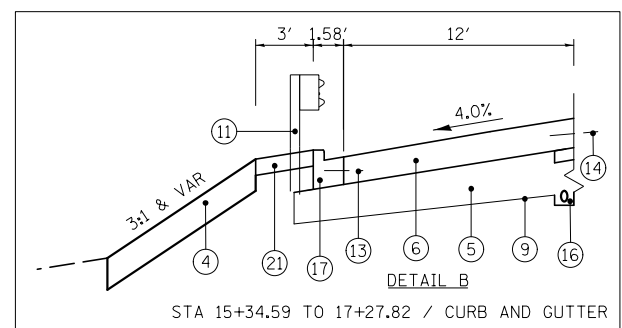


RUSSELL ROAD-STRUCTURAL PAVEMENT DESIGN BLOCK

STRUCTURAL DESIGN TRAFFIC:	YEAR 2021
PV= 2,663	SU= 380
ROAD/STREET CLASSIFICATION:	MU= 761
P= 50%	S= 50%
TRAFFIC FACTOR:	ACTUAL TF= 4.84
	MINIMUM TF= NONE
SUBGRADE SUPPORT RATING:	SSR= POOR
	AC TYPE= N/A

* PLACE BIKE PATH GUARDRAIL ADJUSTMENT FROM:
STA 10+58.2 TO 11+51.0 (RT)

* CHAIN LINK FENCE, 4':
STA 3+71.16 TO 7+90.83 (LT)
STA 3+71.7 TO 11+00 (RT)
ORNAMENTAL FENCE:
SAT 10+58.20 TO 11+53.12 (RT)
STA 15+52 TO 17+24 (RT)



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FILE NAME = #FILES#	USER NAME = default	DESIGNED - JGR	REVISED -
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		CHECKED - RGR	REVISED -
		DATE - 03/09/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

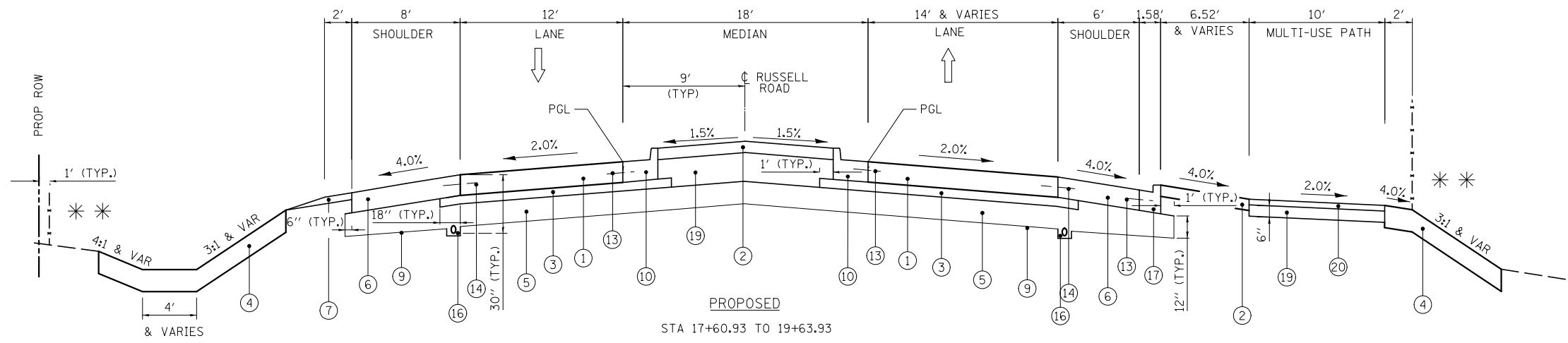
SCALE: SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	8
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

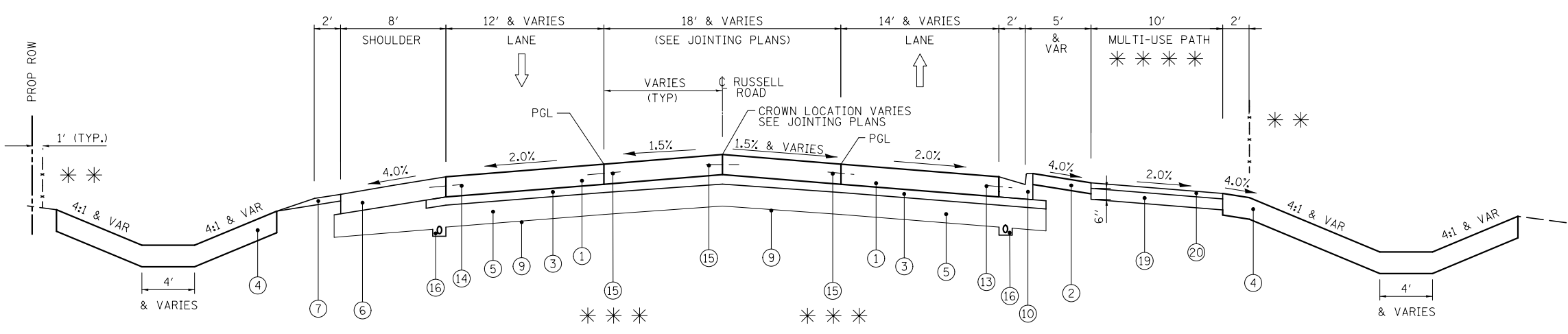
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PROPOSED LEGEND

- ① PORTLAND CEMENT CONCRETE PAVEMENT, 11" (JOINTED)
- ② STAMPED COLORED P.C.C. MEDIAN SURFACE 6 INCH (SPECIAL)
- ③ STABILIZED SUBBASE - HOT MIX ASPHALT, 4 1/2"
- ④ TOPSOIL EXCAVATION AND PLACEMENT (1')
- ⑥ PORTLAND CEMENT CONCRETE SHOULDERS, 11"
- ⑦ AGGREGATE SHOULDER, 6", TYPE B
- ⑧ STAMPED COLORED P.C.C. MEDIAN SURFACE 13 INCH (SPECIAL)
- ⑨ GEOTECHNICAL FABRIC
- ⑩ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ⑪ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- ⑫ LONGITUDINAL KEYED CONSTRUCTION JOINT PER STD. 420001 (SHALL BE INCLUDED IN THE COST OF STAMPED COLORED P.C.C. MEDIAN SURFACE 13 INCH (SPECIAL))
- ⑬ LONGITUDINAL CONSTRUCTION JOINT. DRILL AND GROUT NO. 6 DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF THE APPLICABLE COMB. CONC. CURB & GUTTER TYPE)
- ⑭ LONGITUDINAL CONSTRUCTION JOINT. DRILL AND GROUT NO. 6 DEFORMED EPOXY TIE BARS 30" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE SHOULDERS, 11')
- ⑮ LONGITUDINAL SAWED OR CONSTRUCTION JOINT. FOR LONGITUDINAL SAWED JOINT, POUR IN PLACE NO. 6 DEFORMED EPOXY TIE BARS 30" LONG AT 30" C-C. FOR LONGITUDINAL CONSTRUCTION JOINT, DRILL AND GROUT NO. 8 DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE PAVEMENT, 11" (JOINTED))
- ⑯ PIPE UNDERDRAIN, 4"
- ⑰ COMBINATION CURB & GUTTER, TYPE B-6.12
- ⑱ CONCRETE MEDIAN, TYPE SM (SPECIAL)
- ⑲ AGGREGATE BASE COURSE, TYPE B
- ⑳ HOT MIX ASPHALT SURFACE COURSE MIX "D", N50 (3")
- ㉑ HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARDRAIL
- ㉒ COMBINATION CONCRETE CURB & GUTTER, TYPE M-2.12 (SPECIAL)



PROPOSED
STA 17+60.93 TO 19+63.93



PROPOSED
STA 19+63.93 TO STA 29+22.28

* * ORNAMENTAL FENCE:
STA 18+30 TO 22+72 (LT)
STA 18+40 TO 19+45 (RT)
STA 20+28 TO 22+03 (RT)

* * * STA 19+49.35 TO 24+62.68 (LT)
STA 19+61.74 TO 24+62.68 (RT)

* * * * MULTI-USE PATH ENDS AT STA 24+22.55

RUSSELL ROAD - STRUCTURAL PAVEMENT DESIGN BLOCK

STRUCTURAL DESIGN TRAFFIC:	YEAR 2021
PV= 2,663	SU= 380
ROAD/STREET CLASSIFICATION:	MU= 761
P= 50%	S= 50%
TRAFFIC FACTOR:	ACTUAL TF= 4.84
	MINIMUM TF= NONE
SUBGRADE SUPPORT RATING:	SSR= POOR
	AC TYPE= N/A

NOTE: LAKE COUNTY SPECIFIED THE 11" THICKNESS FOR THIS PAVEMENT AS IT IS BEING JURISDICTIONALLY TRANSFERRED TO THEM.

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FILE NAME = #FILES#	USER NAME = default	DESIGNED - JGR	REVISED -
		DRAWN - JGR	REVISED -
		CHECKED - RGR	REVISED -
		DATE - 03/09/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS	
SCALE:	SHEET NO. 3 OF 4 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	9
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

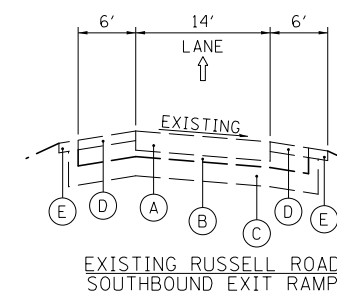
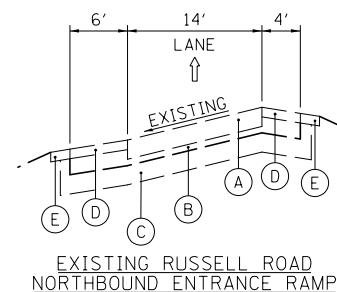
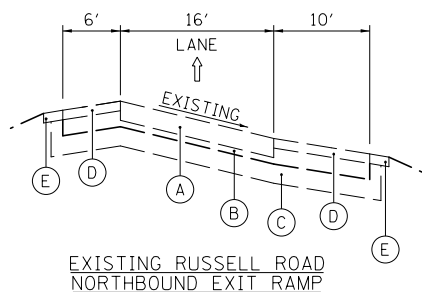
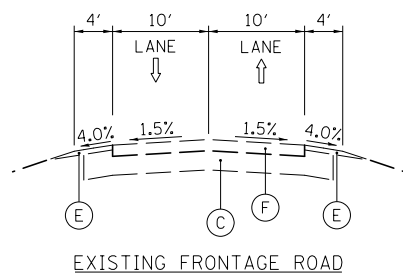
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EXISTING LEGEND

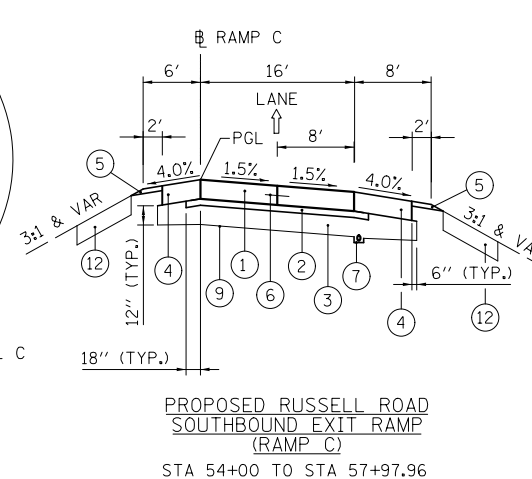
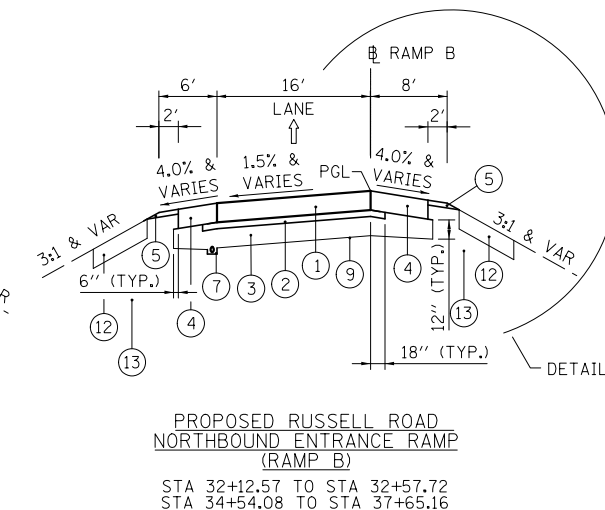
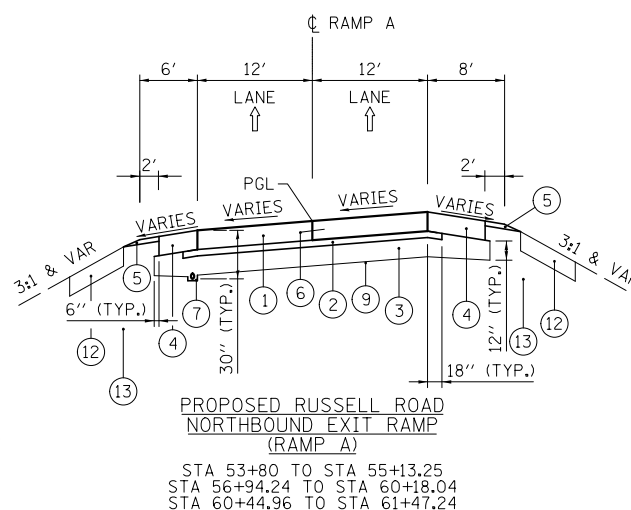
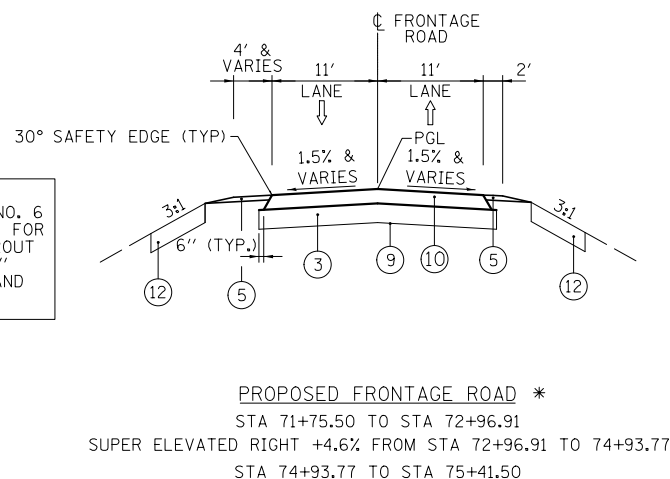
- (A) EXISTING P.C.C. PAVEMENT, 10"
- (B) EXISTING STABILIZED SUB-BASE, 4"
- (C) EXISTING AGGREGATE SUB-GRADE, 12"
- (D) EXISTING BITUMINOUS CONCRETE SHOULDER, 3"
- (E) EXISTING AGGREGATE SHOULDER (TYPICAL)
- (F) EXISTING AGGREGATE BASE COURSE WITH BITUMINOUS SURFACE TREATMENT, 7"

PROPOSED LEGEND

- (1) P.C.C. PAVEMENT, 12" (JOINTED)
- (2) STABILIZED SUB-BASE - HOT-MIX ASPHALT 4 1/2"
- (3) AGGREGATE SUB-GRADE IMPROVEMENT, 12"
- (4) PORTLAND CEMENT CONCRETE SHOULDERS, 12"
- (5) AGGREGATE SHOULDERS, 6" TYPE B
- (6) LONGITUDINAL SAWED OR CONSTRUCTION JOINT. FOR LONGITUDINAL SAWED JOINT, POUR IN PLACE NO. 6 DEFORMED EPOXY TIE BARS 30" LONG AT 30" C-C. FOR LONGITUDINAL CONSTRUCTION JOINT, DRILL AND GROUT NO. 8 DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE PAVEMENT, 12" (JOINTED))
- (7) PIPE UNDERDRAIN, 4"
- (8) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- (9) GEOTECHNICAL FABRIC
- (10) HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9" - 2" HMA SURFACE COURSE, MIX "D", N70 - 7" HMA BINDER COURSE, IL 19.0, N70
- (11) HOT-MIX ASPHALT STABILIZATION 6' AT STEEL PLATE BEAM GUARDRAIL
- (12) TOPSOIL EXCAVATION AND PLACEMENT (1')
- (13) POROUS GRANULAR EMBANKMENT, SUBGRADE **



EXISTING CONDITIONS

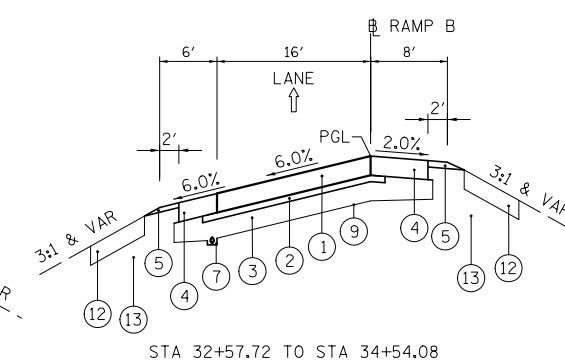
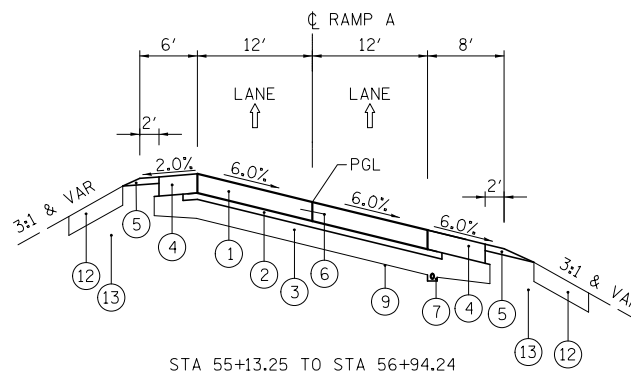
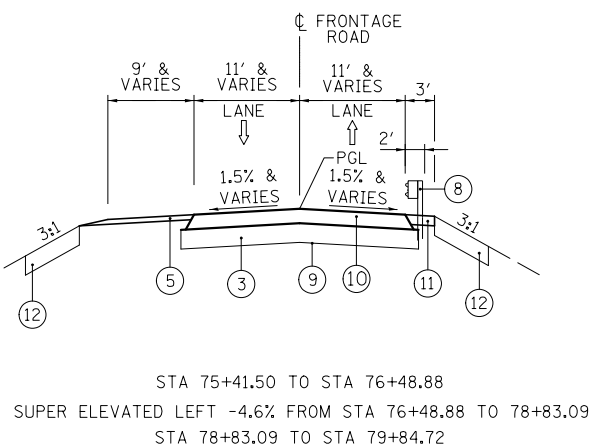


NOTE: PLACE TIE BARS BETWEEN THE P.C.C. PAVEMENT, 12" (JOINTED) AND THE PORTLAND CEMENT CONCRETE SHOULDERS, 12" AS FOLLOWS:

LONGITUDINAL CONSTRUCTION JOINT. DRILL AND GROUT NO. 6 DEFORMED EPOXY TIE BARS 30" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE SHOULDERS, 12")

FRONTAGE ROAD - STRUCTURAL PAVEMENT DESIGN BLOCK

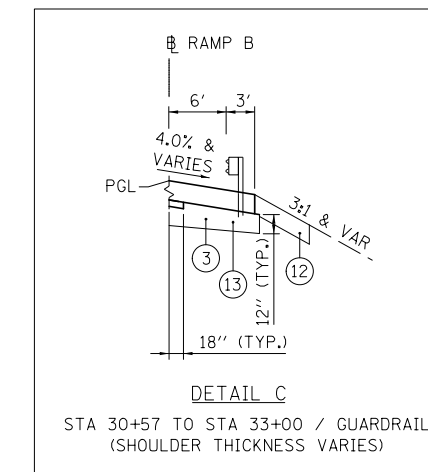
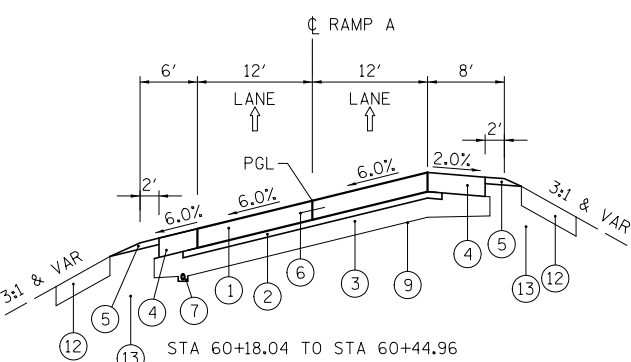
STRUCTURAL DESIGN TRAFFIC:	YEAR 2021
PV=	SU= MU=
ROAD/STREET CLASSIFICATION:	CLASS
P= 50%	S= 50% M= 50%
TRAFFIC FACTOR:	ACTUAL TF= 2.3 AC TYPE= N/A
	MINIMUM TF= NONE
SUBGRADE SUPPORT RATING:	SSR= POOR



I-94 RAMPS - STRUCTURAL PAVEMENT DESIGN BLOCK

STRUCTURAL DESIGN TRAFFIC:	YEAR 2021
PV= 2,663	SU= 380 MU= 761
ROAD/STREET CLASSIFICATION:	CLASS I
P= 50%	S= 50% M= 50%
TRAFFIC FACTOR:	ACTUAL TF= 5.85 AC TYPE= N/A
	MINIMUM TF= 11.17
SUBGRADE SUPPORT RATING:	SSR= POOR

NOTE: THE RAMPS ON THIS PROJECT WERE DESIGNED TO MATCH THE MAINLINE PAVEMENT.



PROPOSED CONDITIONS

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FILE NAME = #FILES#	USER NAME = default	DESIGNED - JGR	REVISED -
		DRAWN - JGR	REVISED -
		CHECKED - RGR	REVISED -
		DATE - 03/09/2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	10
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

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STATION	PRESTAGE				TOTAL EARTHWORK						POST CONSTRUCTION					
	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION VOLUME USED (15% SHRINKAGE) (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION VOLUME USED (15% SHRINKAGE) (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)	POROUS GRANULAR EMBANKMENT, SUBGRADE, (CU YD)	TOPSOIL FURNISH AND PLACE, 4" (SQ YD)	GRANULAR EMBANKMENT, SPECIAL, (CU YD)	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION VOLUME USED (15% SHRINKAGE) (CU YD)	EARTH EXCAVATION (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)	
RAMP C																
53+00	54+00	0.00	0.00	0.00	0.00	438.16	357.41	0.00	342.41	143.08	252.44	0.00	0	0.51	-0.51	
54+00	55+00	17.67	15.00	0.00	15.02	455.66	372.01	0.00	356.71	414.06	424.94	0.00	0	10.17	-10.17	
55+00	56+00	18.00	15.30	0.00	15.27	223.11	177.40	0.00	203.99	815.08	473.44	0.00	0	65.44	-65.44	
56+00	57+00	14.40	12.30	38.89	-26.61	197.24	156.09	0.00	260.70	1270.14	521.56	0.00	0	115.91	-115.91	
57+00	58+00	13.60	11.60	116.21	-104.64	58.10	39.53	0.00	167.74	2596.55	394.06	0.00	0	113.89	-113.89	
58+00	59+00	11.60	9.80	138.01	-128.19	0.97	-4.61	0.00	-1.71	1807.58	140.51	0.00	0	132.88	-132.88	
59+00	60+00	6.40	5.40	8.30	-9.37									0		
RAMP B																
31+00	32+00					196.26	166.82	2830.31	-2663.49	0.00	612.86	0.00				
32+00	33+00					261.66	222.41	1099.24	-876.83	0.00	551.47	0.00				
33+00	34+00					825.58	701.75	126.06	575.69	0.00	547.81	0.00				
34+00	35+00					1765.66	1500.81	11.15	1489.66	0.00	558.38	0.00				
35+00	36+00					2160.58	1836.49	10.24	1826.25	0.00	609.06	0.00				
36+00	37+00					1373.71	1167.65	15.34	1152.31	0.00	450.84	0.00				
37+00	38+00					351.52	298.79	10.61	288.18	0.00	0.00	0.00				
RUSSELL RD																
1+00	2+00	50.70	43.10	0.00	43.08	281.82	196.46	8.33	145.02	0.00	126.79	0.00				
2+00	3+00	46.50	39.50	0.00	39.51	254.19	176.54	52.51	84.53	0.00	226.19	0.00				
3+00	4+00	21.10	18.00	2.70	15.27	427.17	345.16	99.16	230.70	0.00	315.33	0.00				
4+00	5+00	1.60	1.40	1.52	-0.14	451.10	382.08	323.20	58.99	0.00	288.06	0.00				
5+00	6+00	8.40	7.20	2.05	5.13	276.15	227.59	1284.93	-1062.49	0.00	410.76	0.00				
6+00	7+00	10.40	8.80	121.11	-112.30	135.86	106.64	2860.15	-2641.20	0.00	577.31	0.00				
7+00	8+00	17.60	15.00	464.63	-449.68	46.44	24.52	4517.95	-4043.81	0.00	674.38	0.00				
8+00	9+00	13.60	20.00	839.91	-819.87	7.90	-4.84	5055.79	-4240.72	0.00	579.69	0.00				
9+00	10+00	21.20	18.00	990.74	-972.70	0.00	-18.02	6067.74	-5113.02	0.00	622.55	0.00				
10+00	11+00					0.00	0.00	7716.01	-7716.01	0.00	816.82	0.00				
11+00	12+00					0.00	0.00	10183.70	-10183.70	0.00	1536.23	0.00				
12+00	16+00					0.00	0.00	1600.00	-1600.00	1600	0.00	0.00				
16+00	17+00					0.00	0.00	10394.04	-10394.04	0.00	2068.34	0.00				
17+00	18+00					0.00	0.00	6705.45	-6705.45	0.00	1088.16	0.00				
18+00	19+00	5.50	4.70	66.44	-61.79	36.44	30.97	5234.63	-5203.65	0.00	911.68	0.00				
19+00	20+00					42.26	31.25	3998.33	-3905.35	0.00	1106.97	0.00				
20+00	21+00	4.00	3.40	267.52	-264.12	56.30	47.86	2890.77	-2842.91	0.00	914.51	0.00				
21+00	22+00	5.60	4.70	383.78	-379.06	59.81	47.44	2834.31	-2522.75	0.00	1087.22	0.00				
22+00	23+00	8.90	7.60	230.41	-222.84	11.48	5.00	1758.06	-1373.98	0.00	850.97	0.00				
23+00	24+00	11.50	9.70	63.56	-53.82	30.55	18.41	1041.43	-800.21	0.00	799.93	0.00				
24+00	25+00	12.40	10.60	34.40	-23.83	71.24	50.78	805.82	-701.18	0.00	815.02	0.00				
25+00	26+00	7.10	6.00	3.24	2.80	111.18	83.96	646.38	-538.62	0.00	648.72	0.00				
26+00	27+00	0.00	0.00	0.00	0.00	119.46	95.50	567.65	-474.91	0.00	594.81	0.00				
27+00	28+00	7.00	5.90	42.88	-36.95	104.47	88.80	529.10	-440.30	0.00	590.93	0.00				
28+00	29+00	14.80	12.60	42.88	-30.26	121.60	97.41	433.31	-298.92	0.00	531.58	0.00	0	0	-2.79	
29+00	30+00	15.70	13.40	0.00	13.38	68.24	45.43	175.11	-99.41	0.00	246.65	0.00	0	9.51	-9.51	
30+00	31+00	7.90	13.88	13.88	-13.88	0.00	-13.35	0.00	-26.75	0.00	0.00	0.00	0	13.44	-13.44	
31+00	32+00		6.94	6.94	-6.94	0.00	-6.72	0.00	7.17	0.00	0.00	0.00				
32+00	33+00					0.00	0.00	0.00	6.94	0.00	0.00	0.00				
RAMP A																
50+00	51+00					32.52	27.64	0.00	27.64	0.00	5.50	0.00				
51+00	52+00					1.87	1.59	0.00	1.59	15.44	9.15	0.00				
52+00	53+00					0.12	0.10	0.00	0.10	24.11	18.54	0.00				
53+00	54+00					188.18	159.96	0.00	159.96	24.54	79.73	0.00				
54+00	55+00					753.10	640.14	0.00	640.14	78.53	219.15	0.00				
55+00	56+00					1307.83	1111.66	0.00	1111.66	208.12	330.70	0.00				
56+00	57+00					1460.32	1241.28	0.00	1241.28	255.54	361.39	0.00				
57+00	58+00					1190.75	1012.14	0.00	1012.14	116.94	255.96	0.00				
58+00	59+00					713.36	606.36	0.00	606.36	9.83	126.08	0.00				
59+00	60+00					307.31	261.22	0.00	261.22	917.52	224.20	0.00				
60+00	61+00					67.21	57.13	0.00	57.13	1993.49	330.76	0.00				
61+00	62+00					0.00	0.00	0.00	0.00	2650.84	395.85	0.00				
62+00	63+00					0.00	0.00	0.00	0.00	1521.12	236.84	0.00				
FRONTAGE RD																
72+00	73+00					47.62	40.48	0.00	-0.15	0.00	86.56	40.63				
73+00	74+00					33.31	28.31	0.00	-24.14	0.00	77.33	52.45				
74+00	75+00					10.45	8.89	0.00	-173.17	0.00	145.08	182.05				
75+00	76+00					0.00	0.00	0.00	-513.89	0.00	223.62	513.89				
76+00	77+00					63.56	54.02	0.00	-922.40	0.00	238.78	976.42				
77+00	78+00					127.63	108.48	0.00	-1289.22	0.00	244.02	1397.71				
78+00	79+00					125.92	107.03	0.00	-1565.95	0.00	261.94	1672.98				
79+00	80+00					61.85	52.57	0.00	-833.17	0.00	131.36	885.73				
TOTAL		373.17	319.00	3880.00	-3567.53	17,514.82	14,570.40	87,608.67	-69,477.27	16462.52	28,035.18	5,721.86	0.00	0.00	464.03	-464.03

GENERAL NOTES

1. POST CONSTRUCTION EARTHWORK QUANTITIES SHOWN ABOVE IS EARTHWORK NECESSARY FOR TEMPORARY PAVEMENT REMOVAL BEYOND THE LIMITS OF THE FINAL GRADING, AND WILL REQUIRE REMOVAL FOLLOWING STAGE 2B. PAYMENT WILL BE AS EARTH EXCAVATION FOR THE REMOVAL.

EARTHWORK SUMMARY						
20200100	20400800	21101505	Z0042002	20600200	21001000	20200100
EARTH EXCAVATION	FURNISHED EXCAVATION	TOPSOIL EXCAVATION AND PLACEMENT	POROUS GRANULAR EMBANKMENT, SUBGRADE	GRANULAR EMBANKMENT, SPECIAL	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	POST CONSTRUCTION EARTH EXCAVATION
(CU YD)	(CU YD)	(SQ YD)	(CU YD)	(CU YD)	(SQ YD)	(CU YD)
17,515	82,630	28,035	16,465	5,725	28,026	464.00

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		DATE - 03/09/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

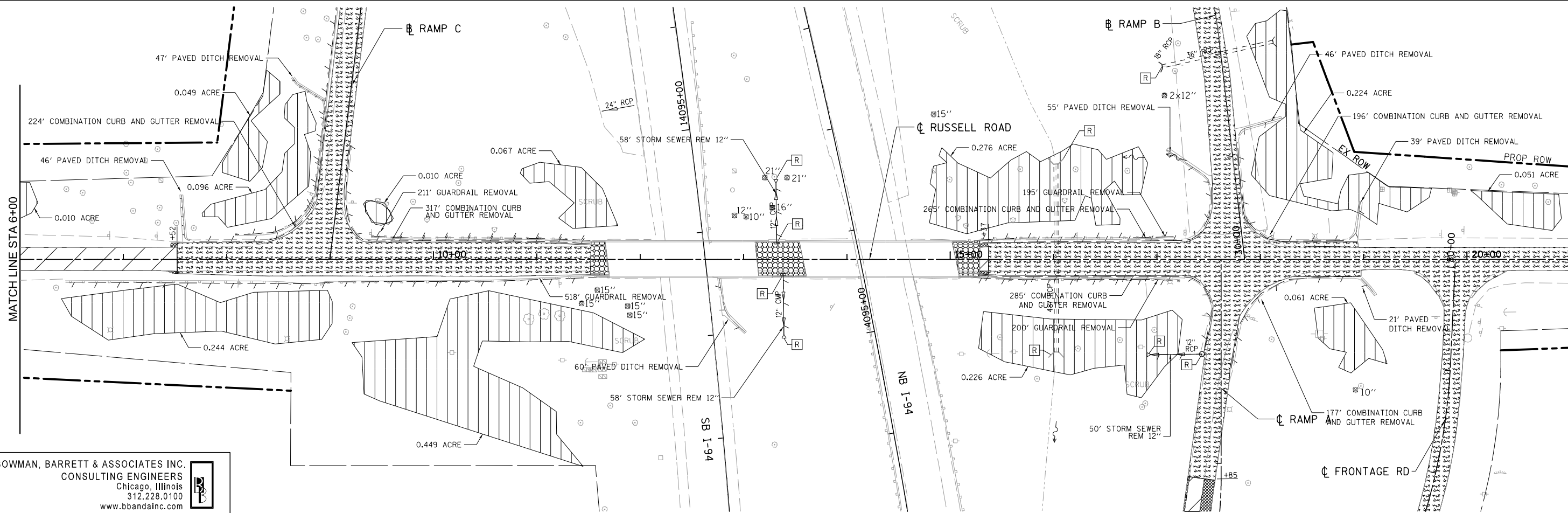
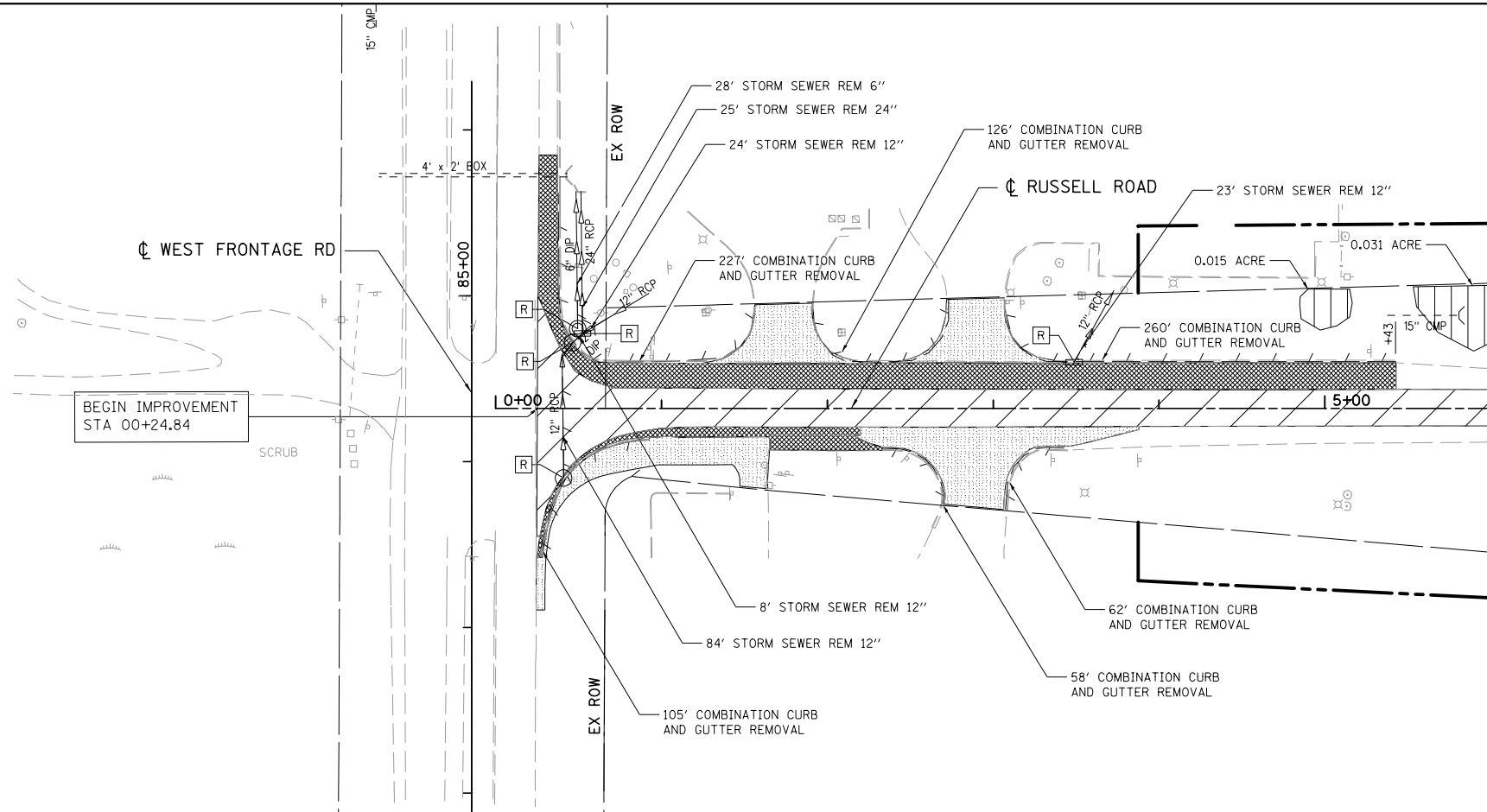
EARTHWORK SCHEDULES FOR RUSSELL ROAD			
SCALE: 1"=50'	SHEET NO. 1 OF 4 SHEETS	STA. 0+00.00 TO STA. 21+00.00	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	11
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

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LEGEND

- R DRAINAGE STRUCTURE REMOVALS
- TREE REMOVAL
- LINEAR REMOVALS
- BROKEN PAVEMENT / SHOULDERS (THE COST OF THIS WORK IS NOT PAID FOR SEPERATELY, BUT SHALL BE INCLUDED WITH THE COST OF FURNISHED EXCAVATION) TO REMAIN IN PLACE
- PAVEMENT REMOVAL
- PAVED SHOULDER REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- APPROACH SLAB REMOVAL
- TREE REMOVAL, ACRES



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FILE NAME = #FILES#	USER NAME = default	DESIGNED - JDC	REVISED -
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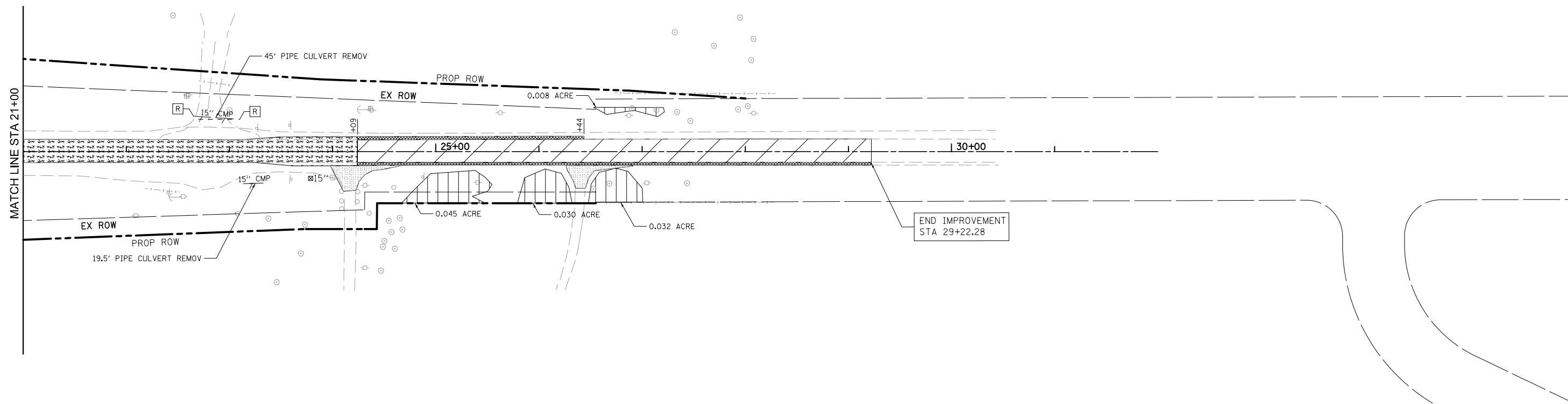
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN FOR RUSSELL ROAD



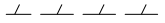

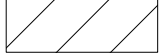


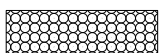

SCALE: 1"=50' SHEET NO. 1 OF 4 SHEETS STA. 0+00.00 TO STA. 21+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	13
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

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LEGEND

-  DRAINAGE STRUCTURE REMOVALS
-  TREE REMOVAL
-  LINEAR REMOVALS
-  BROKEN PAVEMENT / SHOULDERS TO REMAIN IN PLACE
-  PAVEMENT REMOVAL
-  PAVED SHOULDER REMOVAL
-  DRIVEWAY PAVEMENT REMOVAL
-  APPROACH SLAB REMOVAL
-  TREE REMOVAL, ACRES

(THE COST OF THIS WORK IS NOT PAID FOR SEPERATELY, BUT SHALL BE INCLUDED WITH THE COST OF FURNISHED EXCAVATION)

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FILE NAME = *FILES*	USER NAME = default	DESIGNED - JDC	REVISED -
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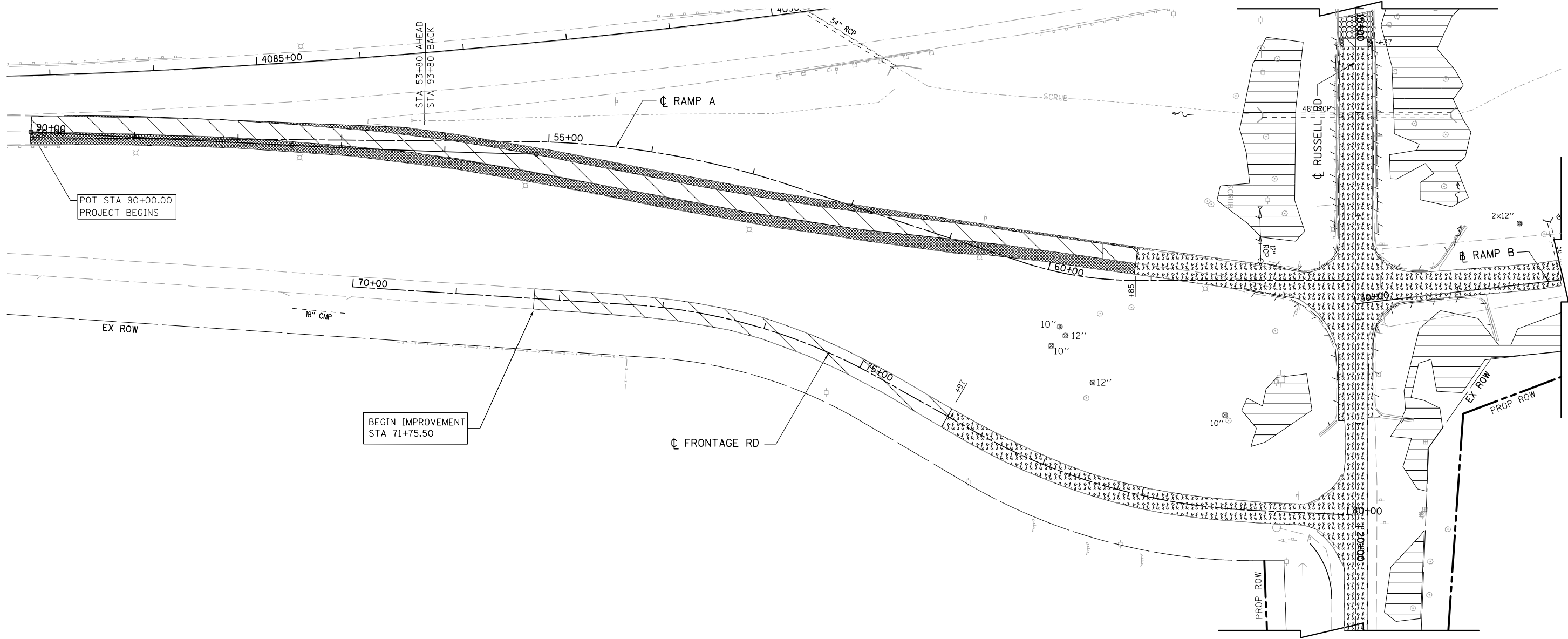
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN FOR RUSSELL ROAD





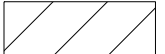


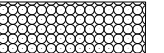

SCALE: 1"=50' SHEET NO. 2 OF 4 SHEETS STA. 21+00.00 TO STA. 29+49.82

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	14
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

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LEGEND

-  DRAINAGE STRUCTURE REMOVALS
-  TREE REMOVAL
-  LINEAR REMOVALS
-  BROKEN PAVEMENT / SHOULDERS TO REMAIN IN PLACE (THE COST OF THIS WORK IS NOT PAID FOR SEPERATELY, BUT SHALL BE INCLUDED WITH THE COST OF FURNISHED EXCAVATION)
-  PAVEMENT REMOVAL
-  PAVED SHOULDER REMOVAL
-  DRIVEWAY PAVEMENT REMOVAL
-  APPROACH SLAB REMOVAL
-  TREE REMOVAL, ACRES

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
 FOR RAMP A AND FRONTAGE ROAD**

SCALE: 1"=50' SHEET NO. 4 OF 4 SHEETS STA. 0+00.00 TO STA. 6+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	16
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

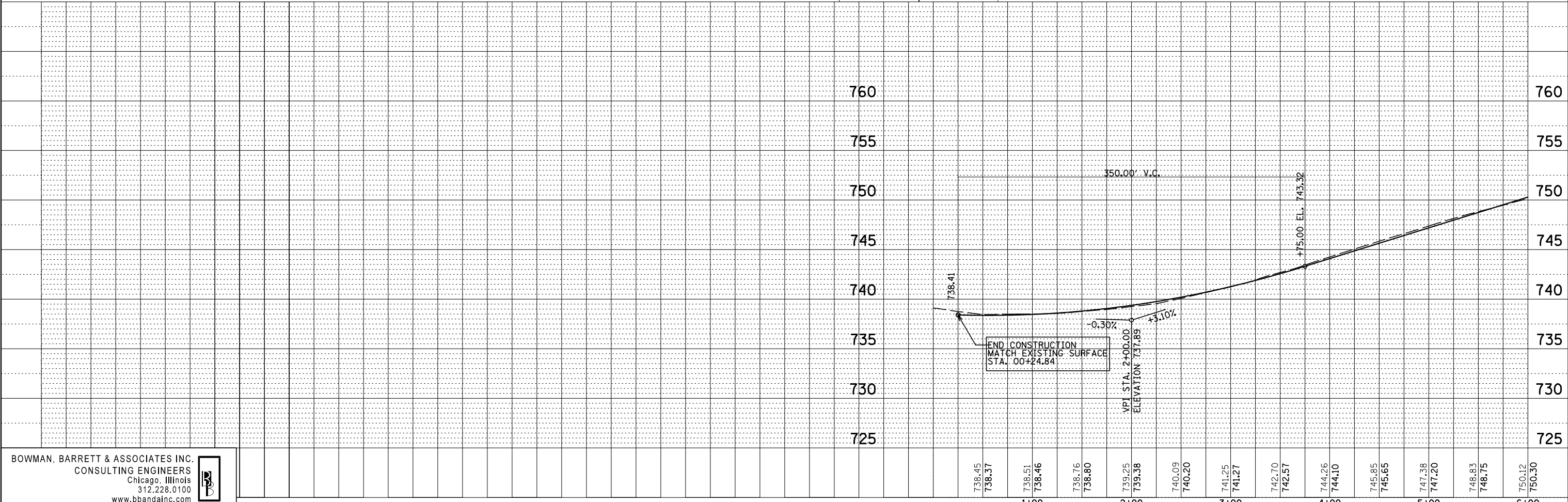
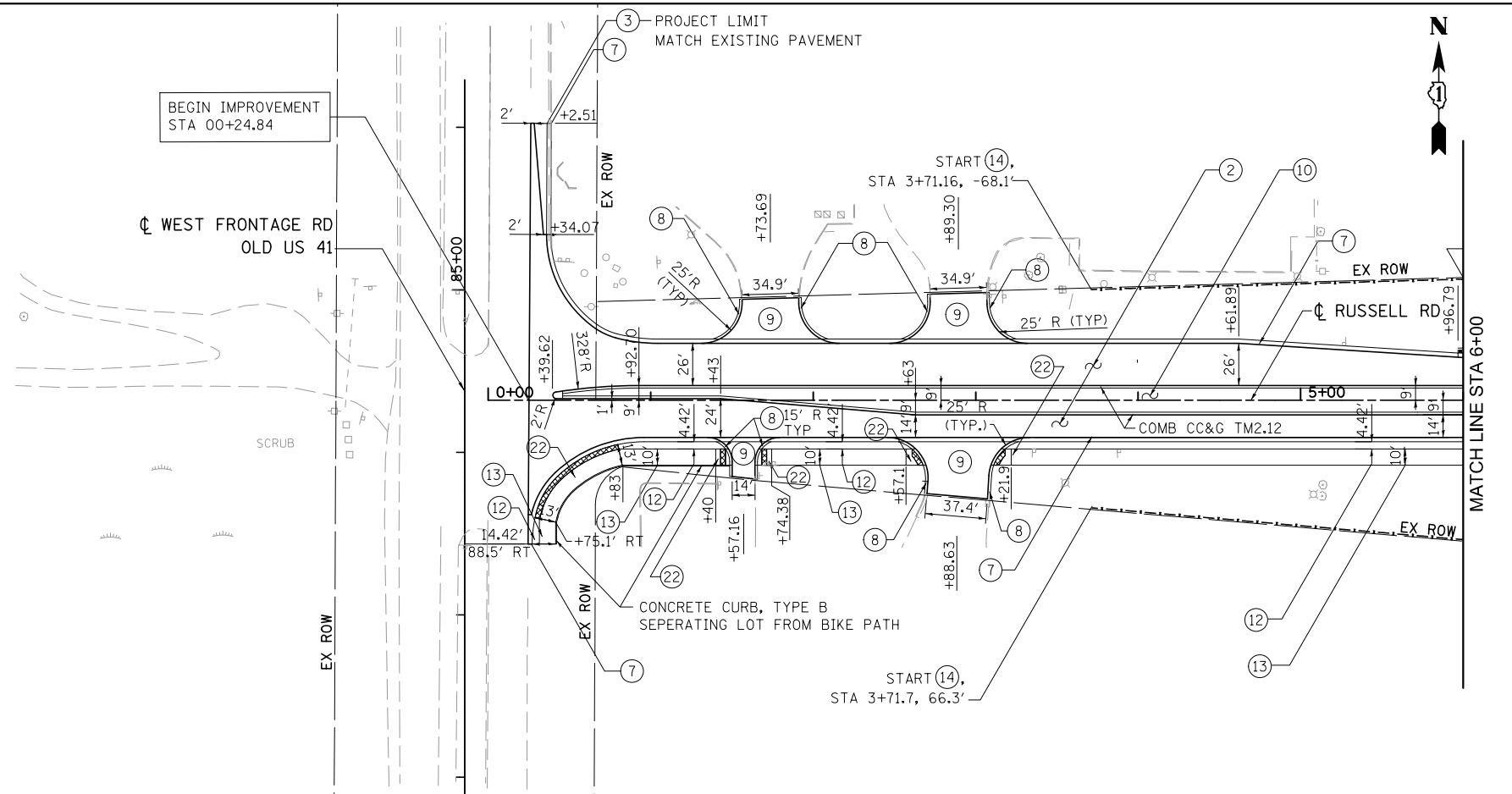
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	STRUCTURE	
	NOTATIONS	
	CHFD	
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LEGEND

- ① PORTLAND CEMENT CONCRETE PAVEMENT, 12" (JOINTED)
 - ② PORTLAND CEMENT CONCRETE PAVEMENT, 11" (JOINTED)
 - ③ PORTLAND CEMENT CONCRETE SHOULDERS, 11"
 - ④ PORTLAND CEMENT CONCRETE SHOULDERS, 12"
 - ⑤ HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 9"
 - ⑥ AGGREGATE SHOULDERS, TYPE B 6"
 - ⑦ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
 - ⑧ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12
 - ⑨ P.C.C. DRIVEWAY PAVEMENT, 8"
 - ⑩ STAMPED COLORED P.C.C. MEDIAN SURFACE 13 INCH (SPECIAL)
 - ⑪ CONCRETE MEDIAN, TYPE SM (SPECIAL)
 - ⑫ STAMPED COLORED P.C.C. MEDIAN SURFACE 6 INCH (SPECIAL)
 - ⑬ HOT MIX ASPHALT SURFACE COURSE MIX "D", N50 (3")
 - ⑭ CHAIN LINK FENCE, 4'
 - ⑮ HMA STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL
 - ⑯ HOT MIX ASPHALT BASE COURSE, 6"
 - ⑰ HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50, (3")
 - ⑱ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
 - ⑲ TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
 - ⑳ TRAFFIC BARRIER TERMINAL, TYPE 2
 - ㉑ TRAFFIC BARRIER TERMINAL, TYPE 5
 - ㉒ TRAFFIC BARRIER TERMINAL, TYPE 6
 - ㉓ CONCRETE CURB, TYPE B
 - ㉔ PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
- ▨ DETECTABLE WARNINGS



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

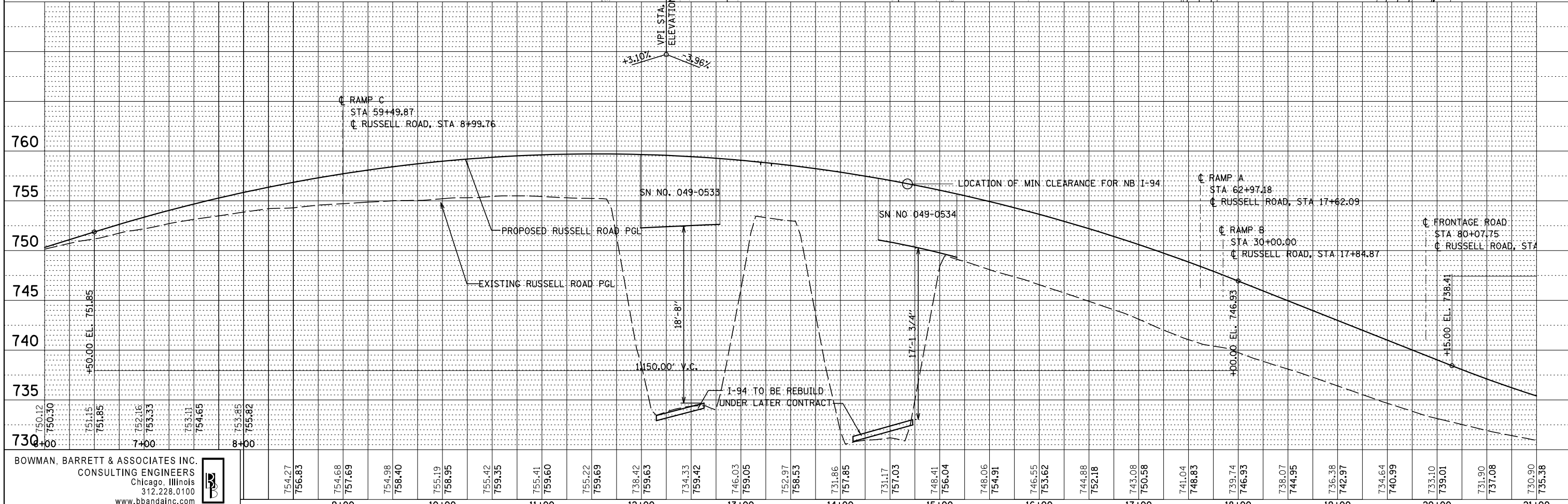
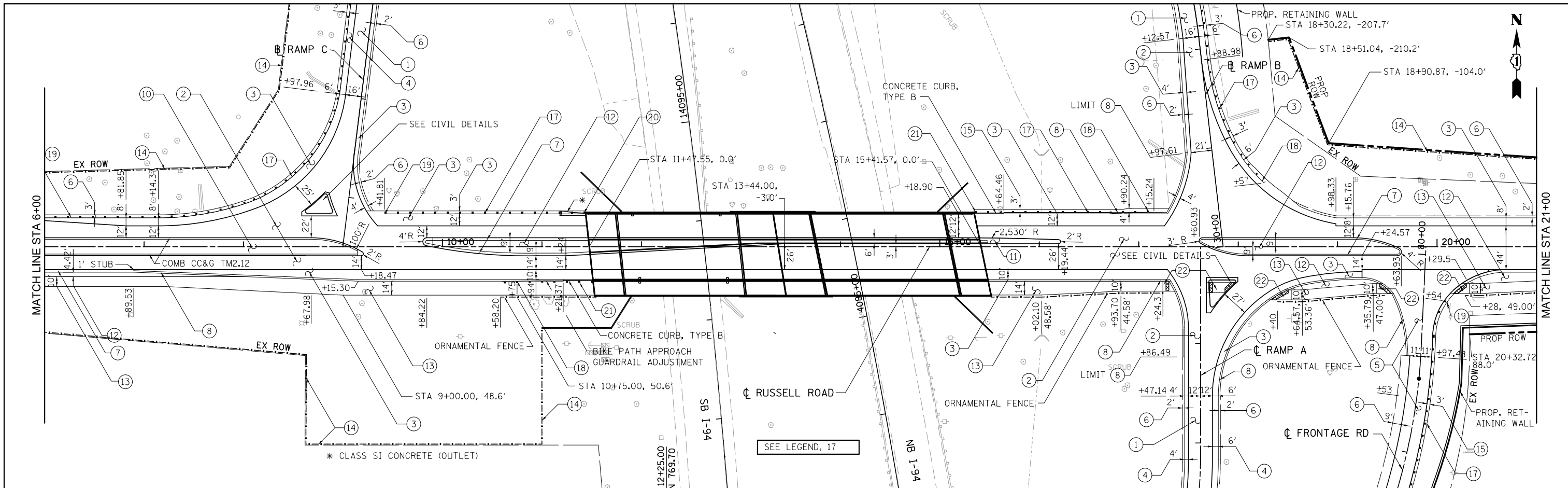
PROPOSED RUSSELL ROAD PLAN AND PROFILE
SCALE: 1"=50' SHEET NO. 1 OF 7 SHEETS STA. 0+24.84 TO STA. 6+00.00

F.A. RTF.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	17
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

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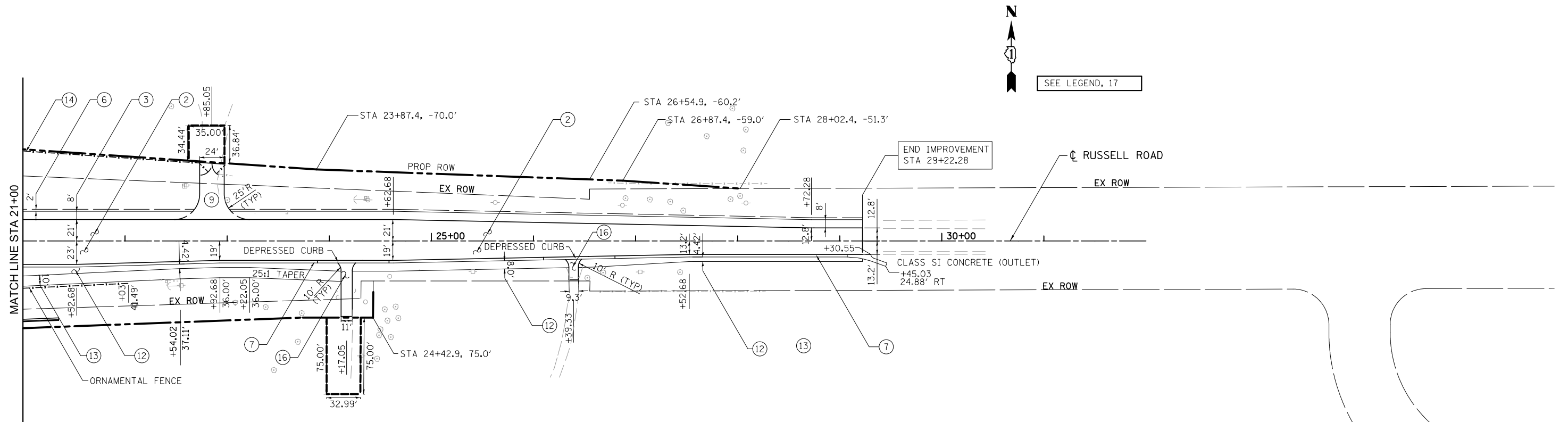
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		DRAWN - JDC	REVISED -			94	49-1(HB & HB-1R)	LAKE	225	18	
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PLOT DATE = 3/9/2012		DATE - 03/09/2012	REVISED -			ILLINOIS FED. AID PROJECT					

SCALE: 1"=50' SHEET NO. 2 OF 7 SHEETS STA. 6+00.00 TO STA. 21+00.00

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DATE - 03/09/2012

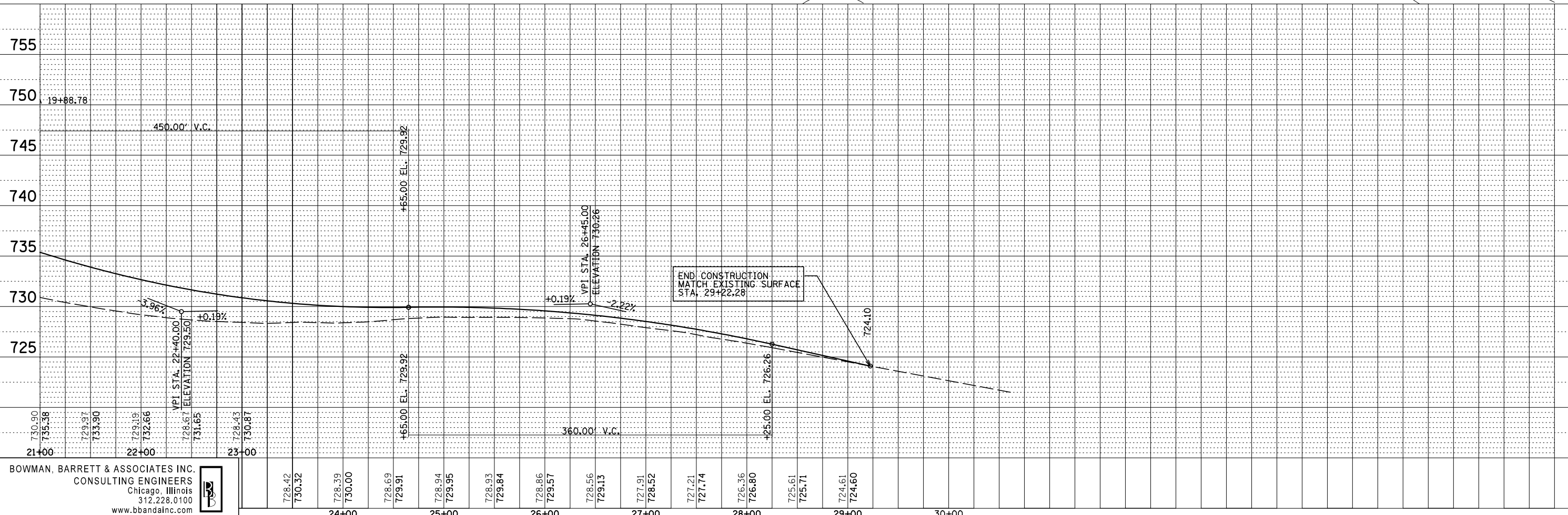
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DEPARTMENT OF TRANSPORTATION

PROPOSED RUSSELL ROAD PLAN AND PROFILE

SCALE: 1"=50' SHEET NO. 3 OF 7 SHEETS STA. 21+00.00 TO STA. 29+22.28

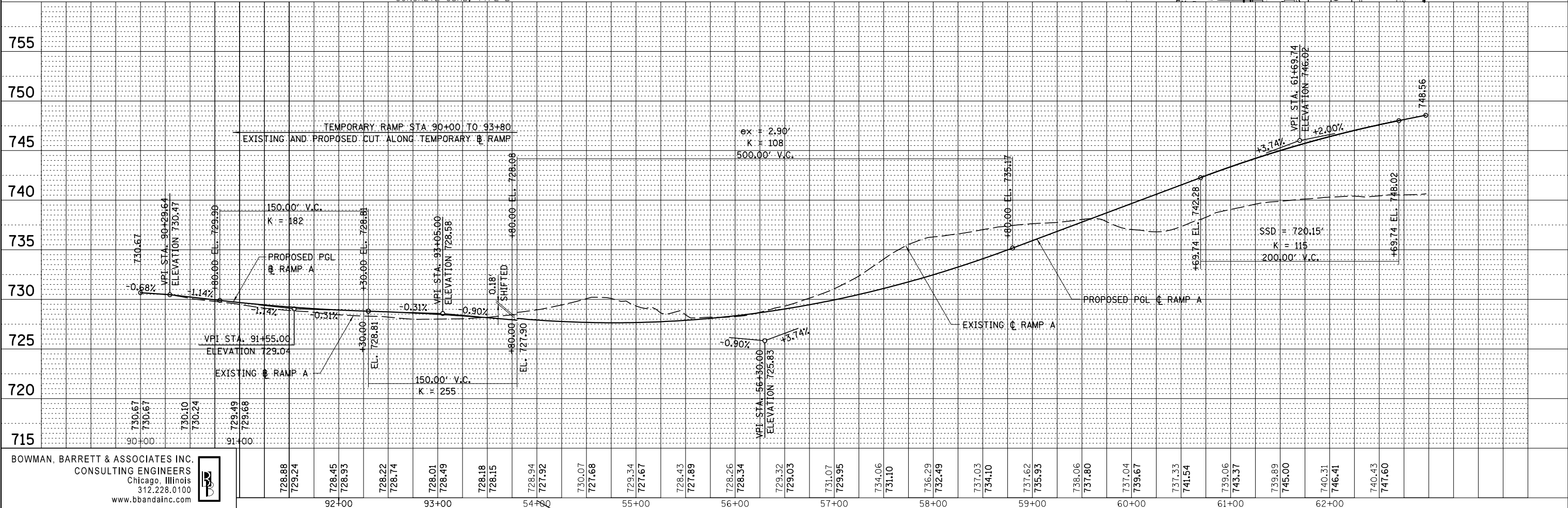
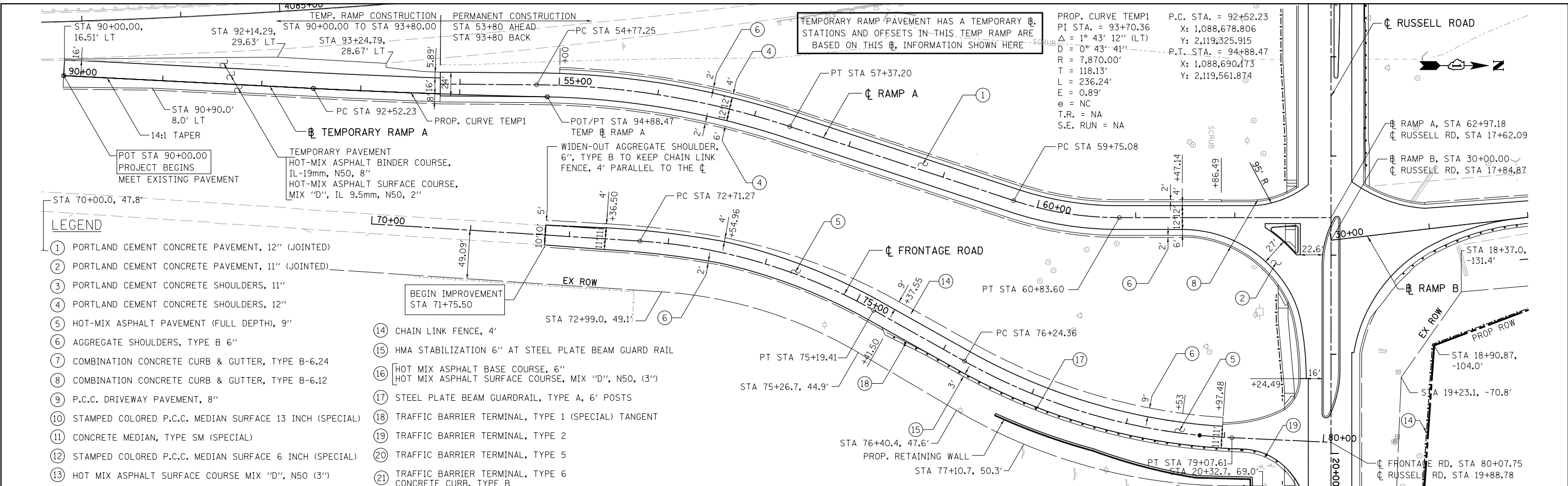
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	19
CONTRACT NO. 60L76			ILLINOIS FED. AID PROJECT	



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	NO. 11	
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		DATE - 01/25/2012	REVISED -

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DEPARTMENT OF TRANSPORTATION

PROPOSED RAMP A PLAN AND PROFILE
SCALE: 1"=50' SHEET NO. 4 OF 7 SHEETS STA. 90+00 TO STA. 62+97.18

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	20
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

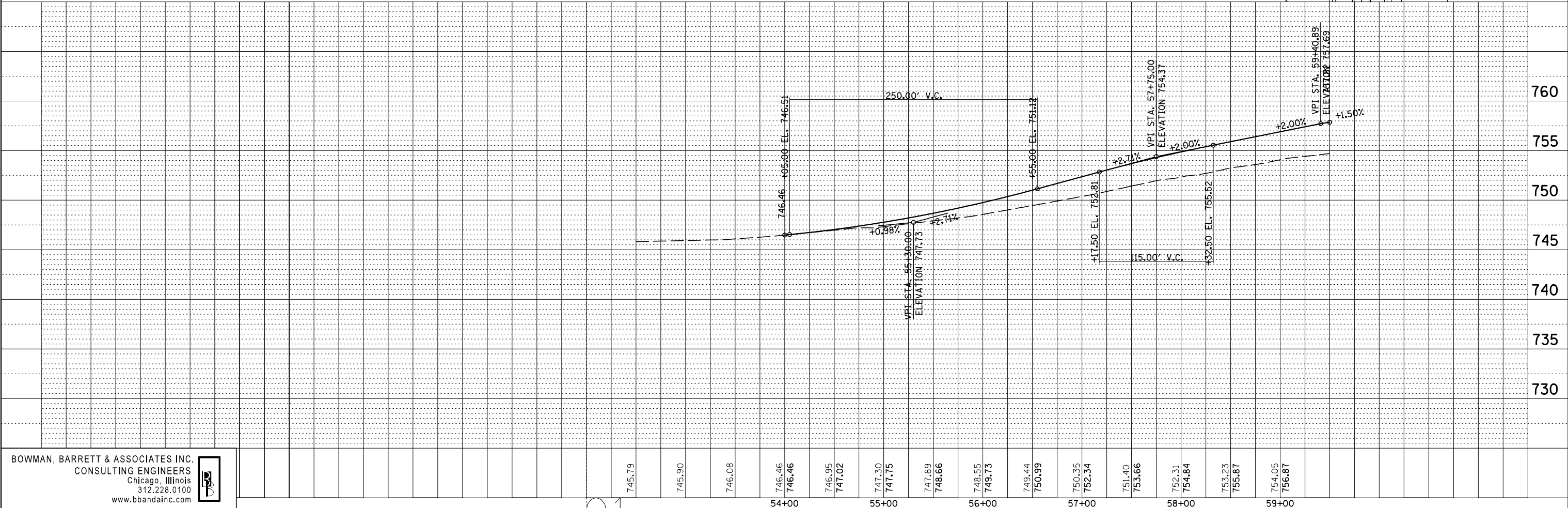
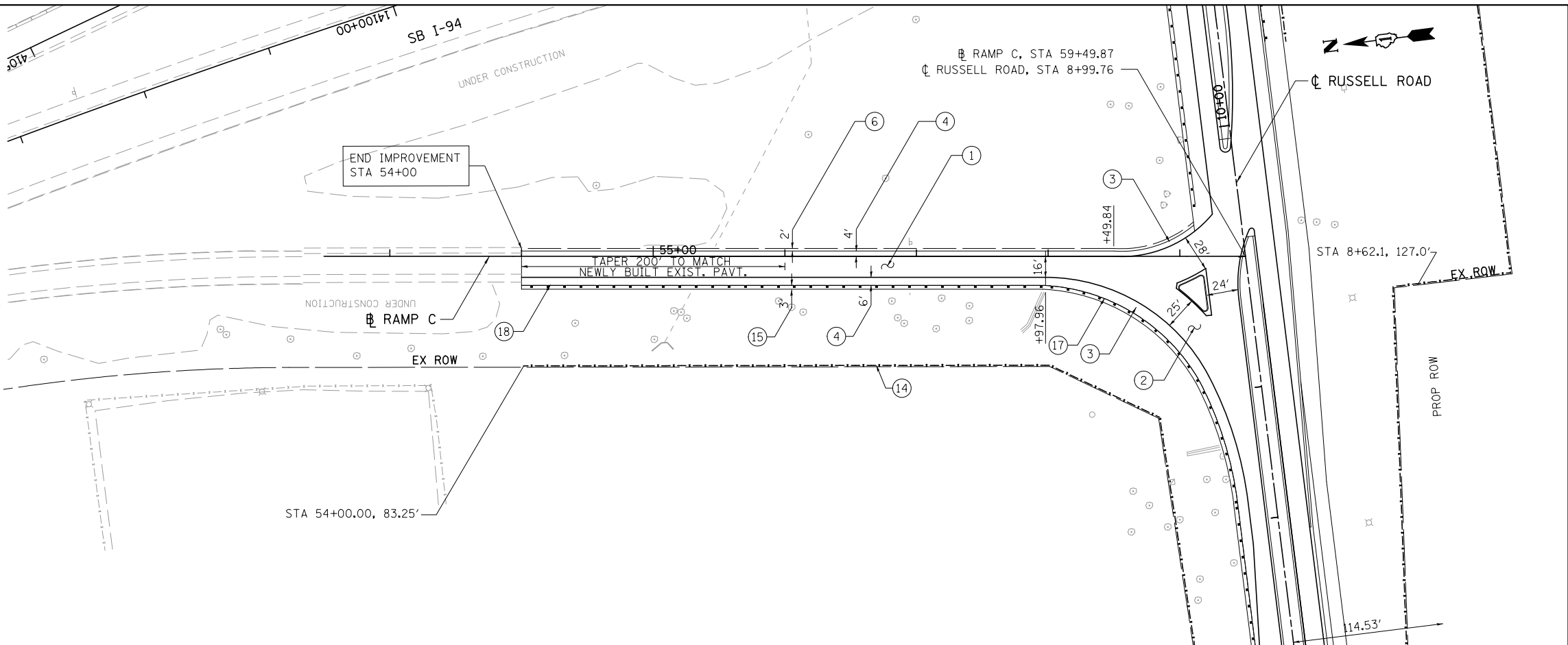
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LEGEND

- 1 PORTLAND CEMENT CONCRETE PAVEMENT, 12" (JOINTED)
- 2 PORTLAND CEMENT CONCRETE PAVEMENT, 11" (JOINTED)
- 3 PORTLAND CEMENT CONCRETE SHOULDERS, 11"
- 4 PORTLAND CEMENT CONCRETE SHOULDERS, 12"
- 5 HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 9"
- 6 AGGREGATE SHOULDERS, TYPE B 6"
- 7 COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- 8 COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12
- 9 P.C.C. DRIVEWAY PAVEMENT, 8"
- 10 STAMPED COLORED P.C.C. MEDIAN SURFACE 13 INCH (SPECIAL)
- 11 CONCRETE MEDIAN, TYPE SM (SPECIAL)
- 12 STAMPED COLORED P.C.C. MEDIAN SURFACE 6 INCH (SPECIAL)
- 13 HOT MIX ASPHALT SURFACE COURSE MIX "D", N50 (3")
- 14 CHAIN LINK FENCE, 4'
- 15 HMA STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL
- 16 HOT MIX ASPHALT BASE COURSE, 6"
HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50, (3")
- 17 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- 18 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- 19 TRAFFIC BARRIER TERMINAL, TYPE 2
- 20 TRAFFIC BARRIER TERMINAL, TYPE 5
- 21 TRAFFIC BARRIER TERMINAL, TYPE 6
- CONCRETE CURB, TYPE B



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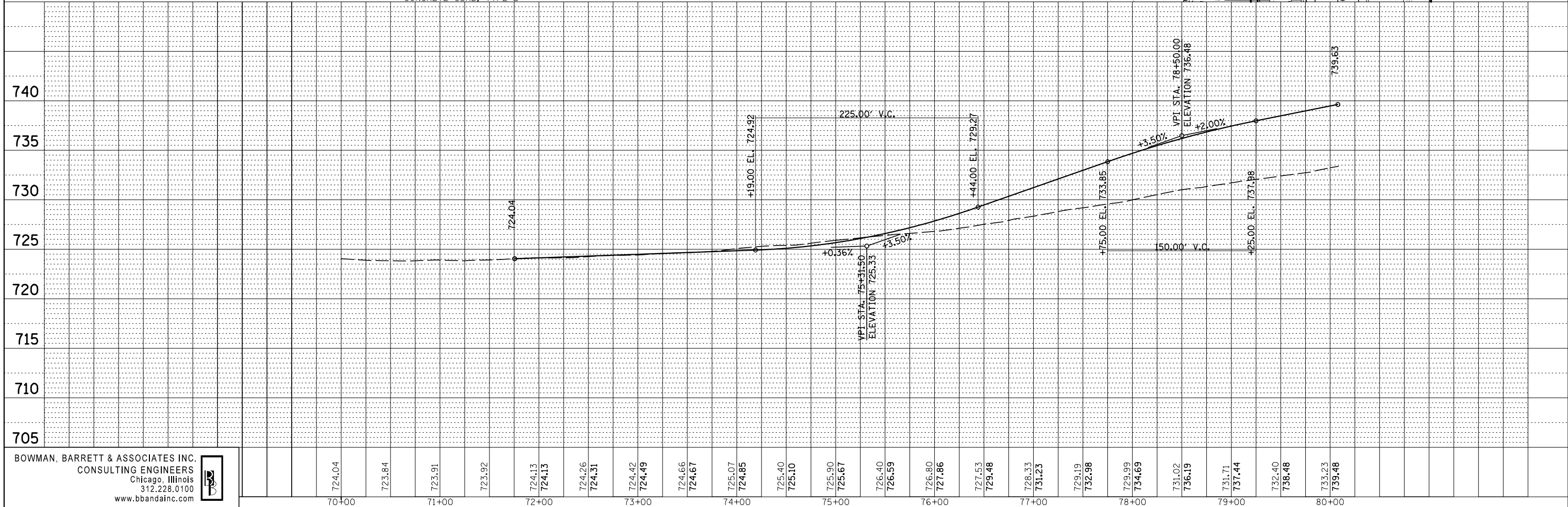
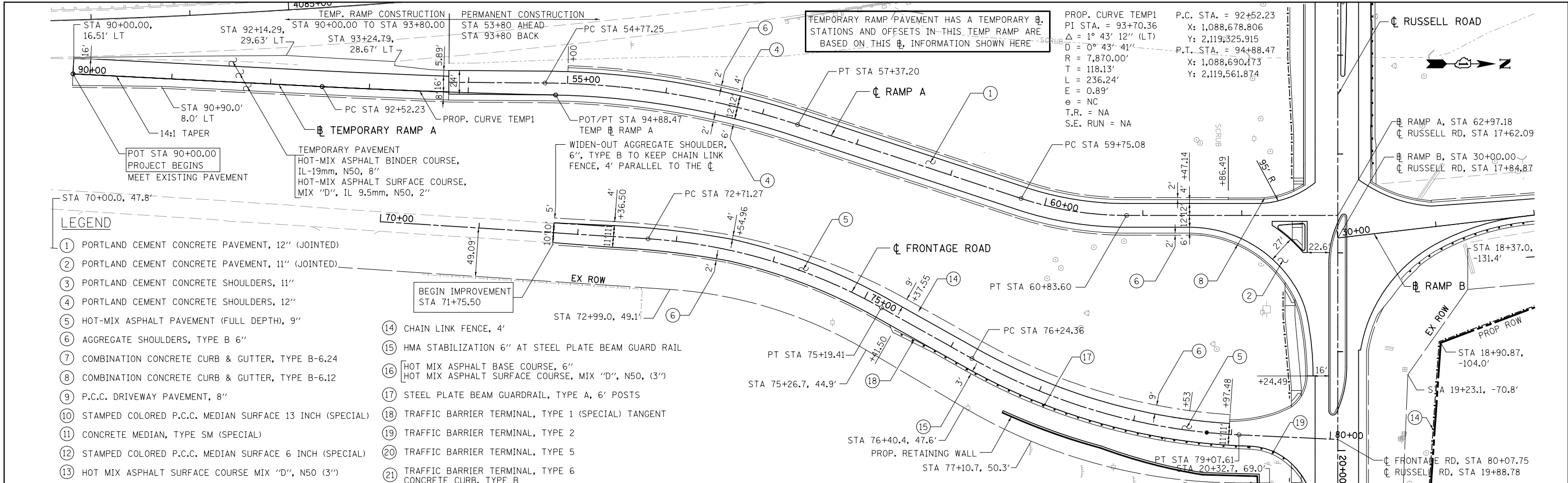
PROPOSED RAMP C PLAN AND PROFILE
 SCALE: 1"=50' SHEET NO. 6 OF 7 SHEETS STA. 54+00.00 TO STA. 59+49.87

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	22
CONTRACT NO. 60L76			ILLINOIS FED. AID PROJECT	

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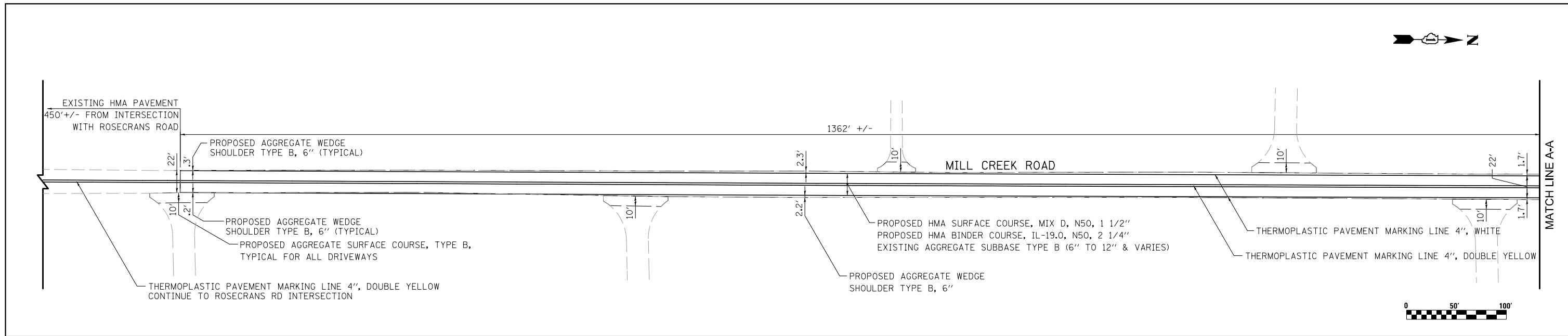
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PROPOSED FRONTAGE RD PLAN AND PROFILE

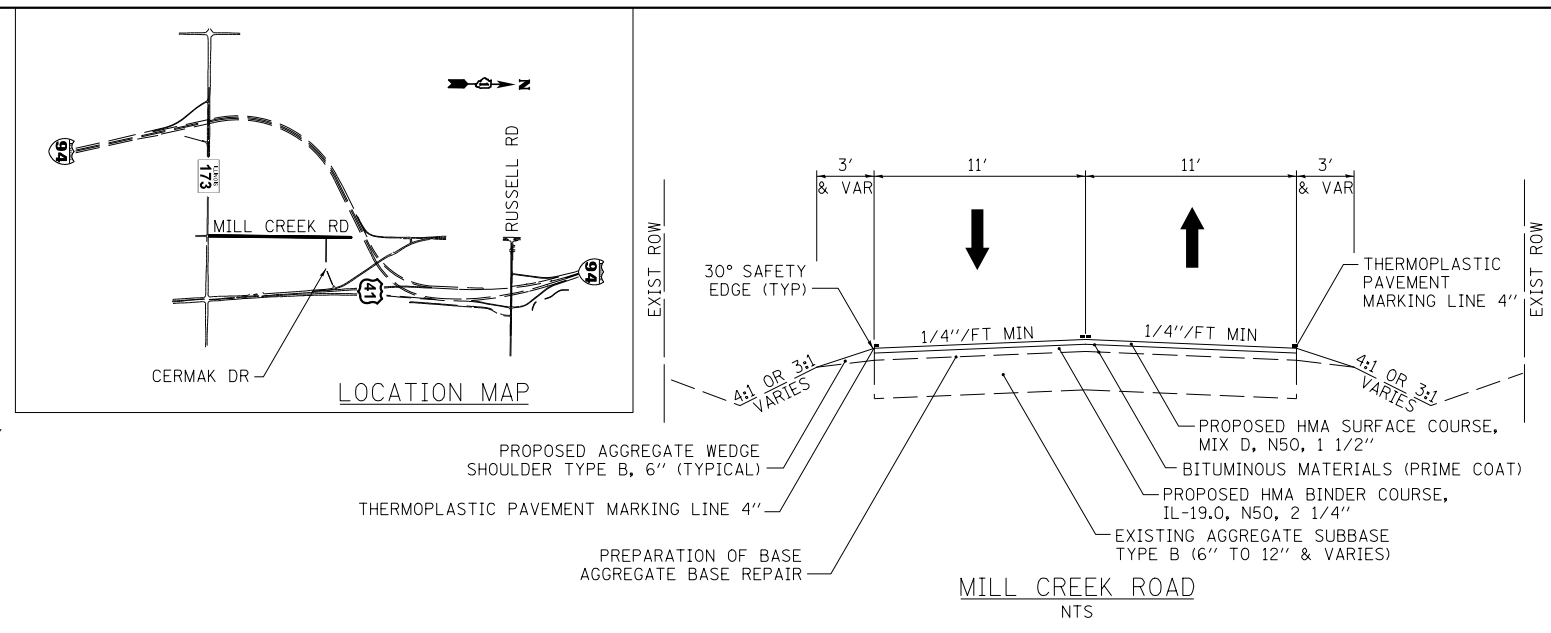
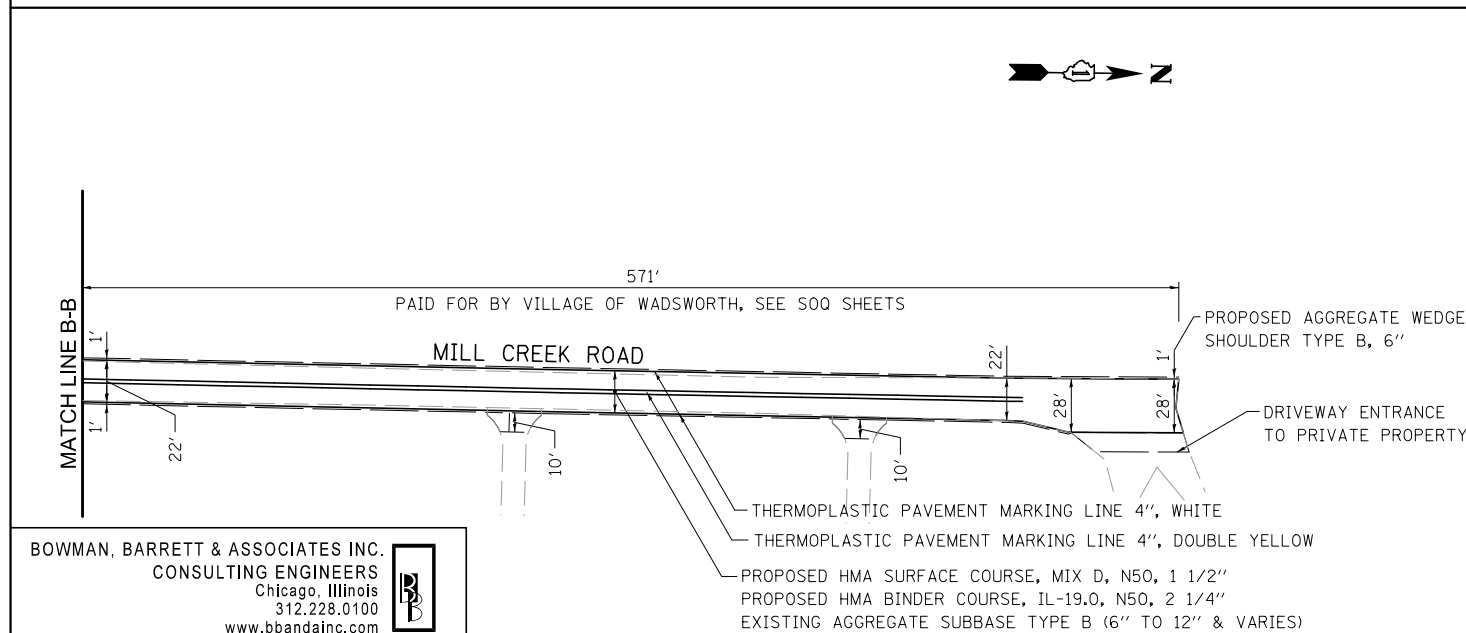
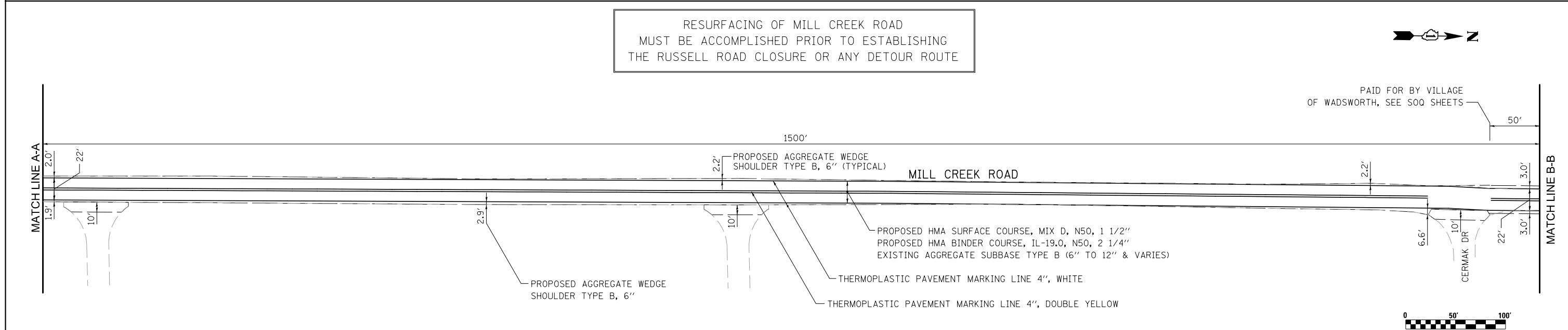
SCALE: 1"=50' SHEET NO. 7 OF 7 SHEETS STA. 71+75.50 TO STA. 80+07.75

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	23
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

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RESURFACING OF MILL CREEK ROAD
MUST BE ACCOMPLISHED PRIOR TO ESTABLISHING
THE RUSSELL ROAD CLOSURE OR ANY DETOUR ROUTE



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED PLAN FOR MILL CREEK ROAD

SCALE: 1"=50'

SHEET NO. 1 OF 1 SHEETS

STA. NA TO STA. NA

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	24
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

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MAINTENANCE OF TRAFFIC GENERAL NOTES

- ① THE CONTRACTOR MUST COORDINATE ALL LANE CLOSURES WITH THE ENGINEER.
- ② ALL TRAFFIC CONTROL DEVICES AND SIGNAGE REQUIRED ON THE I-94 EXPRESSWAY, RUSSELL RD, FRONTAGE RD AND RAMPS IN ACCORDANCE WITH APPLICABLE IDOT DISTRICT 1 STANDARDS, IDOT HIGHWAY STANDARDS, AND THIS CONTRACT DRAWINGS IS INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION (SPECIAL)", AND WILL NOT BE PAID FOR SEPARATELY.
- ③ LANE CLOSURES, RAMP CLOSURES, SIGNING, PAVEMENT MARKING AND BARRICADE PLACEMENT SHALL BE IN ACCORDANCE WITH THE LATEST HIGHWAY STANDARD DRAWINGS AND IDOT DISTRICT 1 STANDARD DETAILS.
- ④ EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED, AS DIRECTED BY THE ENGINEER. THE REMOVAL WILL BE MEASURED IN SQUARE FEET AND PAID FOR AS "PAVEMENT MARKING REMOVAL".
- ⑤ ALL DRUMS, VERTICAL PANELS, AND BARRICADES IMMEDIATELY ADJACENT TO THE EDGE OF TRAVELED WAY SHALL BE EQUIPPED WITH BIDIRECTIONAL STEADY BURN LIGHTS. CONES WILL NOT BE ALLOWED, UNLESS NOTED. DRUM SPACINGS SHALL BE 50' CENTER TO CENTER ALONG THE I-94 AND RUSSELL ROAD AND 25' C-C AT ALL RAMP LOCATIONS. DRUMS SHALL BE PLACED AT 100' C-C AT LOCATIONS OF FULL SHOULDER WIDTH.
- ⑥ ANY EXISTING SIGNS DENOTED WITHIN THE PLAN SET THAT DO NOT APPLY TO THE REVISED TRAFFIC PATTERNS SHALL BE REMOVED OR COVERED, AS DIRECTED BY THE ENGINEER. THE COVERING OR REMOVAL OF GROUND MOUNTED/ OVERHEAD SIGNS SHALL BE NON-DESTRUCTIVE IN NATURE AND WILL NOT BE MEASURED FOR PAYMENT BUT IS CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE FOR "TRAFFIC CONTROL AND PROTECTION (SPECIAL)"
- ⑦ TEMPORARY CONCRETE BARRIER MUST BE CONTINUOUSLY PINNED ALONG THE TRAFFIC SIDE WHERE A HAZARD EXISTS WITHIN 3.5 FEET OF BEHIND OF THE TEMPORARY CONCRETE BARRIER; THE BARRIER SHALL BE ANCHORED TO THE PAVEMENT. ANCHORING OF THE TEMPORARY CONCRETE BARRIER WILL NOT BE MEASURED FOR PAYMENT BUT IS INCLUDED IN THE CONTRACT UNIT PRICE FOR "TEMPORARY CONCRETE BARRIER" AND "RELOCATE TEMPORARY CONCRETE BARRIER".
- ⑧ ADVANCED SIGNING PER IDOT DISTRICT 1 DETAIL TC-22 AND/OR CHANGEABLE MESSAGE SIGNS SHALL BE USED IN ADVANCE OF ROAD WORK IN BOTH TRAFFIC DIRECTIONS ALONG RUSSELL ROAD. DISTRICT 1 DETAIL TC-08 AND/OR CHANGEABLE MESSAGE SIGNS SHALL BE USED IN ADVANCE OF RAMP WORK FOR RAMP C AND RAMP CLOSURE FOR RAMPS B AND A. THESE SIGNS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR "TEMPORARY INFORMATION SIGNING" OR "CHANGEABLE MESSAGE SIGN".
- ⑨ ALL TEMPORARY PAVEMENT MARKINGS ARE SHOWN ON THE PLANS AS PAVEMENT MARKING TAPE, TYPE III OF THE LINE WIDTH SPECIFIED. THE CONTRACTOR MAY REQUEST PERMISSION TO USE EPOXY PAVEMENT MARKING IN PLACE OF PAVEMENT MARKING TAPE, TYPE III WHEN WEATHER CONDITIONS FALL OUTSIDE THE TEMPERATURE RESTRICTIONS STATED IN THE MANUFACTURERS SPECIFICATIONS FOR INSTALLING THE TAPE. THE INSTALLATION AND REMOVAL OF THE EPOXY PAVEMENT MARKING SHALL BE PAID FOR AS PAVEMENT MARKING TAPE, TYPE III AND WORK ZONE PAVEMENT MARKING REMOVAL RESPECTIVELY.
- ⑩ THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PROVIDING ACCESS POINTS TO THE WORK ZONE. ACCESS POINTS MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ANY SIGNING OR ADDITIONAL TRAFFIC CONTROL DEVICES REQUIRED TO PROVIDE CONTRACTOR ACCESS TO THE WORK ZONE IS INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION (SPECIAL)" AND WILL NOT BE PAID FOR SEPARATELY.
- ⑪ THERE ARE NO DRAWINGS FOR PRE-STAGE 1A, EXCEPT FOR RAMP C. TEMPORARY PAVEMENT INSTALLED FOR TRAFFIC STAGING WILL BE PAID AS "TEMPORARY PAVEMENT". THE REMOVAL OF THE TEMPORARY PAVEMENT WILL BE PAID AS "PAVEMENT REMOVAL".
- ⑫ "RELOCATE TEMPORARY CONCRETE BARRIER" WILL BE MEASURED FOR PAYMENT WHEN THE BARRIER IS RELOCATED AND USED AS A TRAFFIC CONTROL DEVICE. THERE MAY BE SOME INSTANCES WHEN THE EXISTING TEMPORARY CONCRETE BARRIER REQUIRES RELOCATION DUE TO THE CONTRACTORS ACTIVITIES BUT THE BARRIER WILL NOT BE USED FOR MAINTENANCE OF TRAFFIC DURING THAT STAGE. THIS BARRIER WILL NOT BE MEASURED FOR PAYMENT UNTIL IT IS USED AS A TRAFFIC CONTROL DEVICE IN A SUBSEQUENT STAGE.
- ⑬ INSTALL DRIVEWAY ENTRANCE SIGN, AS PER IDOT STD TC-26. DRIVEWAY SIGNS WILL BE PAID AS "TEMPORARY INFORMATION SIGNING" MAINTAIN ACCESS CONTROL TO THE DRIVEWAYS BY CONSTRUCTING HALF AND MAINTAINING ACCESS IN THE OTHER HALF. ACCESS TO ALL BUSINESSES AND RESIDENCES WILL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION UNLESS NOTED IN PLANS.
- ⑭ FOR THE EXISTING SIGNING REMOVAL, SEE SIGNING AND PAVEMENT MARKINGS PLAN SHEETS.
- ⑮ THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE PLACEMENT AND MESSAGES FOR ALL CHANGEABLE MESSAGE SIGNS WITH THE ENGINEER. PROVIDED BELOW FOR INFORMATION ONLY ARE ANTICIPATED LOCATIONS AND DURATIONS AT EACH LOCATION FOR PORTABLE CHANGEABLE MESSAGE SIGNS:

RAMP A	1
RAMP B	1
RAMP C	1
RUSSELL ROAD	3

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STAGING OVERVIEW

PRE-STAGE 1A

WORK DURING THIS STAGE WILL INCLUDE ALL WORK THAT IS REQUIRED TO PLACE TRAFFIC IN STAGE 1A AND 1B, INCLUDING BUT NOT LIMITED TO SIGNING, PAVEMENT MARKING, TEMPORARY PAVEMENT, AND ASPHALT SURFACING OF MILL CREEK ROAD..

TEMPORARY PAVEMENT ALONG RUSSELL ROAD FROM STA 00+24.6 TO STA 8+80, STA 18+34.67 TO STA 19+77.8, AND STA 20+00.0 TO STA 33+64.0.
 TEMPORARY PAVEMENT ALONG LEFT SIDE OF RAMP C FROM STA 52+35.0 TO STA 59+20.0.
 TEMPORARY PAVEMENT ALONG FRONTAGE'S ROAD EOP FROM STA 75+90.0 TO RUSSELL ROAD

PRE-STAGE WORK ALONG RUSSELL ROAD AND THE FRONTAGE ROAD WILL BE PERFORMED UNDER TEMPORARY LANE CLOSURES DURING HOURS AS APPROVED BY THE ENGINEER. PRE-STAGE WORK ALONG RAMP C WILL BE PERFORMED AS PER IDOT DISTRICT 1 DETAIL TC-17. SEE SHEET NO 28A FOR PRE-STAGE PLAN ON RAMP C. SEE MOT TYPICAL SECTIONS FOR ADDITIONAL TEMPORARY PAVEMENT INFORMATION.

STAGE 1A

OPEN TO TRAFFIC:

RAMP C - A 12' MOT RAMP LANE IS SHIFTED TO THE LEFT OF THE BASELINE. A 10' WIDE TEMPORARY PAVEMENT BUILT IN PRESTAGE IS USED FOR THIS MOT RAMP LANE. A TEMPORARY CONCRETE BARRIER WILL DIVIDE THE WORKZONE FROM THE RAMP TRAFFIC. RAMP TRAFFIC CAN ONLY GO WESTBOUND ON RUSSELL ROAD. FOR THE EASTBOUND MOVEMENT, SEE THE DETOUR PLAN.

RUSSELL ROAD: IN GENERAL, THE MOT 2-WAY TRAFFIC, ONE LANE IN EACH DIRECTION, IS SHIFTED TO THE EASTBOUND SIDE OF RUSSELL ROAD. RUSSELL ROAD IS CLOSED TO THROUGH TRAFFIC AT THE BRIDGES OVER I-94.

WEST OF THE RUSSELL ROAD BRIDGE, THE EASTBOUND MOT TRAFFIC ACCESS IS PERMITTED FROM STA 0+24.0 TO STA 3+30. TEMPORARY PAVEMENT WAS INSTALLED AT THE EASTBOUND SIDE OF RUSSELL ROAD BETWEEN STATIONS 00+24.6 TO STA 8+80.

AT THE EAST SIDE OF THE RUSSELL BRIDGE, MOT TRAFFIC HAS ACCESS TO AND FROM I-94 AND THE FRONTAGE ROAD. SEE DETOUR PLAN FOR RUSSELL ROAD DETOUR TO THE OTHER SIDE OF THE BRIDGE. MOT TRAFFIC RIDES ON TEMPORARY PAVEMENT BUILT IN PRE-STAGE.

DRIVEWAY ENTRANCES ARE OPEN TO TRAFFIC AT BOTH RIGHT AND LEFT OF RUSSELL ROAD BASELINE. SEE IDOT STD TC-26.

RAMPS A, RAMP B, AND THE FRONTAGE ROAD ARE OPEN TO TRAFFIC.

THE REGULAR THREE LANES OF NB I-94 AND SB I-94 ARE OPEN TO TRAFFIC. SHOULDERS AT BOTH SIDES OF NB AND SB I-94 ARE CLOSED TO TRAFFIC. SEE DISTRICT ONE STD TC-17 TEMPORARY NIGHT LANE CLOSURES AS NEEDED, SEE HIGHWAY STANDARD 701206-03 'LANE CLOSURE, 2L, 2W, NIGHT ONLY, FOR SPEEDS > 45 MPH'

DESCRIPTION OF WORK TO BE PERFORMED:

RAMP C: BUILD THE RIGHT PERMANENT SHOULDER AND HALF OF THE 16' LANE.
 BUILD 4' WIDE TEMPORARY PAVEMENT NEXT TO THE RIGHT PERMANENT SHOULDER FOR NEXT MOT TRAFFIC.

RUSSELL ROAD: BUILD THE PROPOSED LEFT SIDE OF RUSSELL ROAD FROM THE CENTER LINE OF RUSSELL ROAD AS SHOWN IN PLANS. REMOVE AND BUILD THE RUSSELL ROAD BRIDGES AND THE ROADWAY FROM STA 9+30.0 TO THE NEW WEST SIDE APPROACH SLAB AND FROM THE EAST SIDE APPROACH SLAB TO STA 17+00

CONSTRUCT RETAINING WALL TO THE RIGHT OF THE FRONTAGE ROAD.

TEMPORARY PAVEMENT NEEDS TO BE INSTALLED BETWEEN STATIONS 24+62.4 TO 31+22.0 NEXT TO THE LEFT PERMANENT SHOULDER, TO BE USED FOR THE NEXT MOT STAGE. SEE MOT TYPICAL SECTIONS.

STAGE 1B

OPEN TO TRAFFIC:

RUSSELL ROAD MOT TRAFFIC SAME AS STAGE 1A WITH THE EXCEPTION AT THE EAST OF THE RUSSELL RD BRIDGE.

DURING THIS STAGE RAMPS A AND B ARE CLOSED TO TRAFFIC. CONTRACTOR HAS TO MAINTAIN EMERGENCY ACCESS FOR THESE RAMPS. SEE DETOUR PLAN.

TEMPORARY PAVEMENT INSTALLED IN PRESTAGE, CONNECTS THE FRONTAGE ROAD AND RUSSELL ROAD TO PROVIDE TRAFFIC ACCESS AT EXISTING ELEVATION. SEE MOT PLANS FOR LIMITS.

NB I-94: CLOSED NB I-94 EXIT RAMP A TO RUSSELL ROAD AS PER DISTRICT ONE STD. TC-08. ALSO SEE MOT PLANS.

NBI-94 AND SB I-94 UNDER RUSSELL ROAD BRIDGES: SAME AS STAGE 1A.

DESCRIPTION OF WORK TO BE PERFORMED:

RAMP A: BUILD THE PERMANENT RAMP AS SHOWN IN PLANS.

RAMP B: BUILD THE PERMANENT RAMP AS SHOWN IN PLANS.

RAMP C: SAME AS PREVIOUS STAGE.

RUSSELL ROAD: SAME AS PREVIOUS STAGE. BUILD THE INTERSECTIONS WITH RAMPS A AND B AND FRONTAGE ROAD. THE RUSSELL ROAD LIMIT OF RECONSTRUCTION WITH THE FRONTAGE ROAD WOULD BE AT THE CONCRETE PAVEMENT

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		DRAWN - RA	REVISED -
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	PLOT DATE = 3/9/2012	DATE - 03/09/2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC - GENERAL NOTES

SCALE: NA SHEET NO. 1 OF 2 SHEETS STA. NA TO STA. NA

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	25
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60L76	

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STAGE 2A

OPEN TO TRAFFIC:

RAMP A, RAMP B, RAMP C AND FRONTAGE ROAD ARE OPEN TO TRAFFIC.

RAMP C: A 12' MOT RAMP LANCE IS SHIFTED TO THE RIGHT OF THE BASELINE. THERE IS A 4' WIDE TEMPORARY PAVEMENT NEXT TO THE RIGHT PERMANENT SHOULDER. THE RAMP C TEMPORARY PAVEMENT LIMITS ARE FROM STA 53+15.0 TO STA 58+19.3, SEE MOT TYPICAL SECTIONS.

RUSSELL ROAD: IN GENERAL, THE MOT 2-WAY TRAFFIC, ONE LANE IN EACH DIRECTION, IS SHIFTED TO THE LEFT SIDE OF THE RUSSELL RD BASELINE. THE RUSSELL ROAD BRIDGES OVER I-94 ARE CLOSED.

THE FRONTAGE ROAD IS OPEN TO TRAFFIC WHILE BEEN RECONSTRUCTED. CONTRACTOR HAS TO MAINTAINED AT ALL TIMES 2-WAY ACCESS AT THE FRONTAGE ROAD INTERSECTION WHILE WORK OPERATIONS PROGRESS.

AT THE WEST SIDE OF THE RUSSELL BRIDGE, THE EASTBOUND MOT TRAFFIC IS CLOSED TO THRU TRAFFIC. THE EASTBOUND MOT TRAFFIC ACCESS IS ONLY PERMITTED TO STA 3+80.0.

AT THE EAST SIDE OF THE RUSSELL RD BRIDGE, THE MOT TRAFFIC HAS ACCESS TO AND FROM I-94 AND THE FRONTAGE ROAD. SEE DETOUR PLAN FOR THE RUSSELL ROAD DETOUR TO THE WEST SIDE OF THE BRIDGE.

THE MOT WESTBOUND TRAFFIC LANE RIDES ON TEMPORARY PAVEMENT THAT VARIES IN WIDTH FROM STA 24+62.4 TO STA 31+22.0.

NB I-94 AND SB I-94 UNDER RUSSELL ROAD BRIDGES: SAME AS STAGE 1A.

DESCRIPTION OF WORK TO BE PERFORMED:

RAMP C: BUILD THE LEFT PERMANENT SHOULDER AND THE LEFT HALF OF THE 16' LANE. REMOVE TEMPORARY PAVEMENT USED IN STAGE 1A AND 1B.

RUSSELL ROAD: BUILD THE PROPOSED RIGHT SIDE OF RUSSELL ROAD FROM THE CENTER LINE OF RUSSELL RD. STA 0+25.0 +/- TO STA 8+15. THEN BOTH SIDES OF RUSSELL ROAD, FROM THE CENTERLINE, ARE AVAILABLE AS WORKZONE TO STA 17+00.0

THE RUSSELL RD BRIDGE RECONSTRUCTION THAT HAS BEEN CLOSED SINCE STAGE 1A, FROM STA 9+30 TO STA 17+00, MUST BE COMPLETED AND OPENED TO TRAFFIC BY NOVEMBER 21, 2012. INSTALL THE TEMPORARY PAVEMENT, SEE MOT TYPICAL SECTION A-A, FROM STA 3+82.0 TO STA 9+24, AS SHOWN IN MOT PLAN, DURING THE NIGHT OF THE TRAFFIC SHIFT.

THE WORK CONTINUES ON RUSSELL RD FROM STA 20+30.0 TO THE EAST PROJECT LIMIT OF THE RIGHT SIDE OF THE CENTER LINE

THE FRONTAGE ROAD RECONSTRUCTION FROM STA 71+75.59 TO STA 79+84.72. USE HIGHWAY STD 701501-06 "URBAN LANE CLOSURE 2L, 2W, UNDIVIDED" TO MAINTAIN TRAFFIC ON THE FRONTAGE ROAD WHEN WORKING ON IT.

STAGE 2B

RAMP A: OPEN TO TRAFFIC WITH PERMANENT PAVEMENT MARKINGS.

RAMP B: OPEN TO TRAFFIC WITH PERMANENT PAVEMENT MARKINGS.

RAMP C: OPEN TO TRAFFIC WITH PERMANENT PAVEMENT MARKINGS.

FRONTAGE RD: OPEN TO TRAFFIC WITH PERMANENT PAVEMENT MARKINGS.

RUSSELL ROAD: IN GENERAL, THE MOT 2-WAY TRAFFIC, ONE LANE IN EACH DIRECTION. SOME OF THE TEMPORARY PAVEMENT MARKINGS FROM STAGE 2A WILL REMAIN.

THE 2-WAY TRAFFIC, ONE LANE IN EACH DIRECTION IS EXTENDED FROM STAGE 2A STA 3+80 TO PAST STA 17+00.0.

BRIDGE IS OPEN TO TRAFFIC FOR THIS STAGE 2B. SOME PERMANENT PAVEMENT MARKINGS CAN BE INSTALLED AS SHOWN IN MOT PLANS.

AT THE WEST SIDE OF THE RUSSELL BRIDGE, THE EASTBOUND MOT TRAFFIC IS OPEN TO THRU TRAFFIC. THE SAME MOT FROM STAGE 2A SHOULD REMAIN IN PLACE FROM STA 21+15.11 TO THE EAST OF THE PROJECT.

CLOSED TO TRAFFIC: NONE

DESCRIPTION OF WORK TO BE PERFORMED:

THE WORK ALONG RUSSELL RD SAME AS STAGE 2A, FROM STA 0+25 +/- TO STA 8+94, AND STA 21+50 TO THE EAST END.

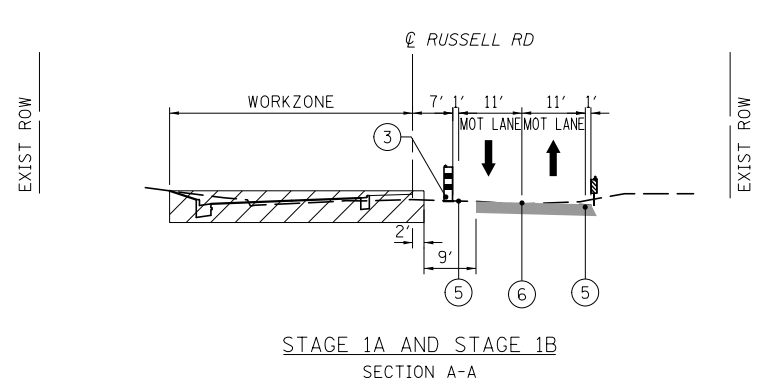
USE APPLICABLE IDOT HIGHWAY STANDARDS FOR ANY WORK LEFT THAT NEEDS TO BE DONE AT THE END OF STAGE 2B

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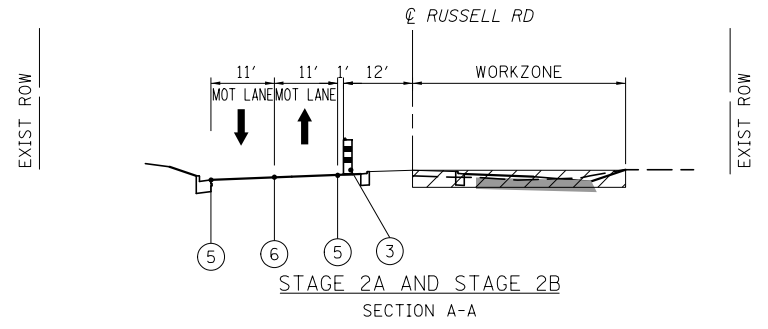


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		DRAWN - RA	REVISED -			94	49-1(HB & HB-1)R	LAKE	225	26	
		CHECKED - RGR	REVISED -			CONTRACT NO. 60L76					
		DATE - 01/25/2012	REVISED -			SCALE: NA	SHEET NO. 2 OF 2 SHEETS	STA. NA	TO STA. NA	ILLINOIS FED. AID PROJECT	

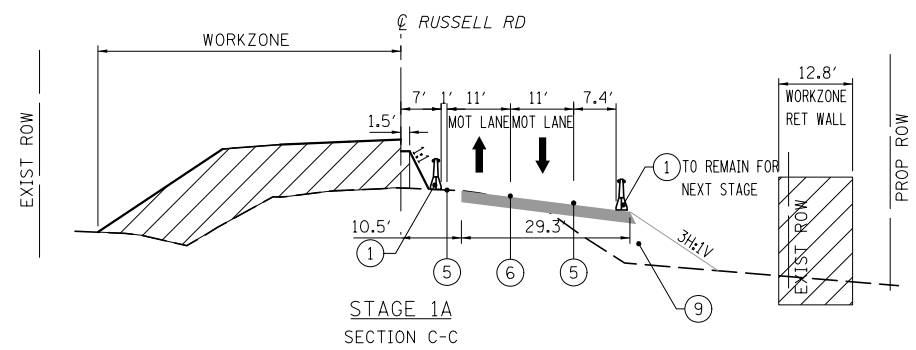
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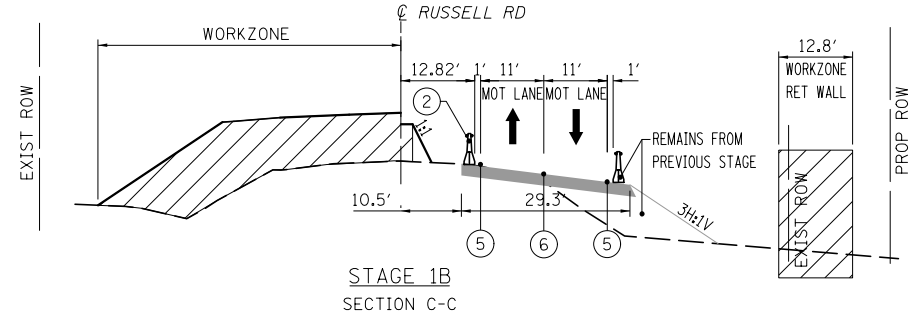
STAGE 1A AND STAGE 1B
SECTION A-A



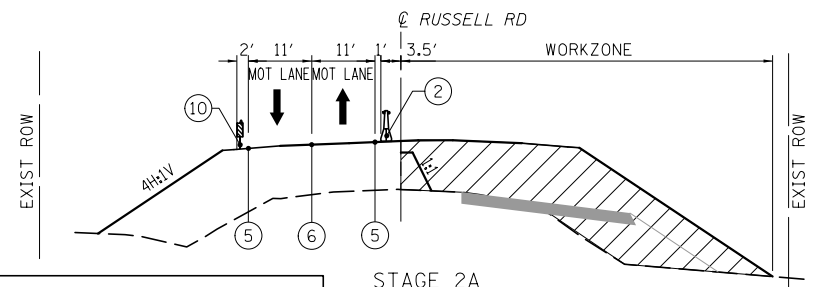
STAGE 2A AND STAGE 2B
SECTION A-A



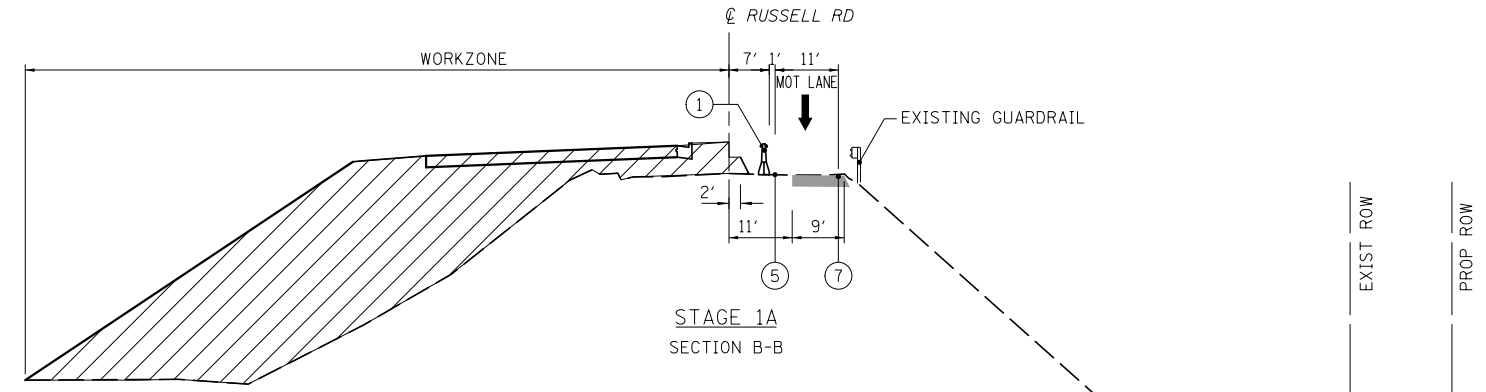
STAGE 1A
SECTION C-C



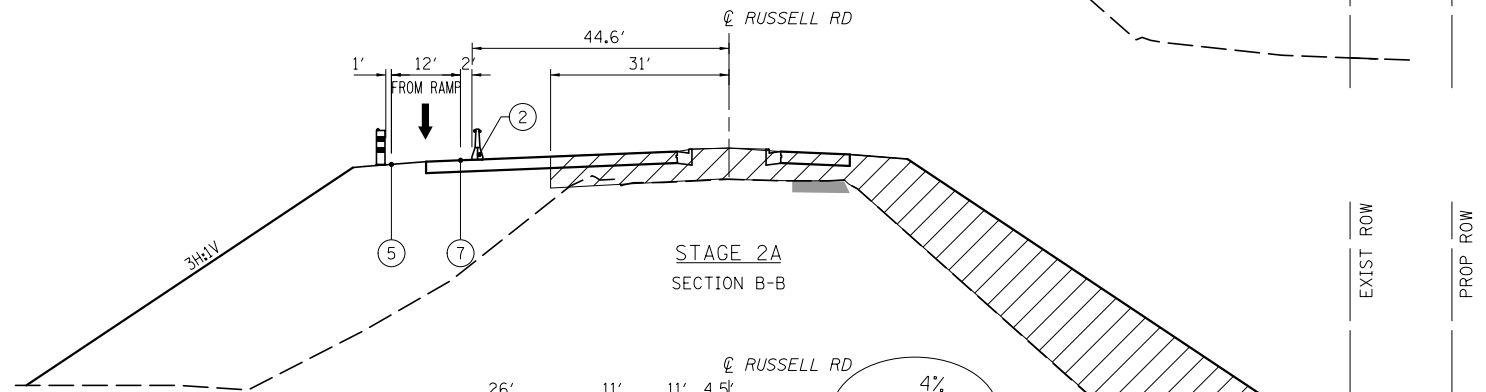
STAGE 1B
SECTION C-C



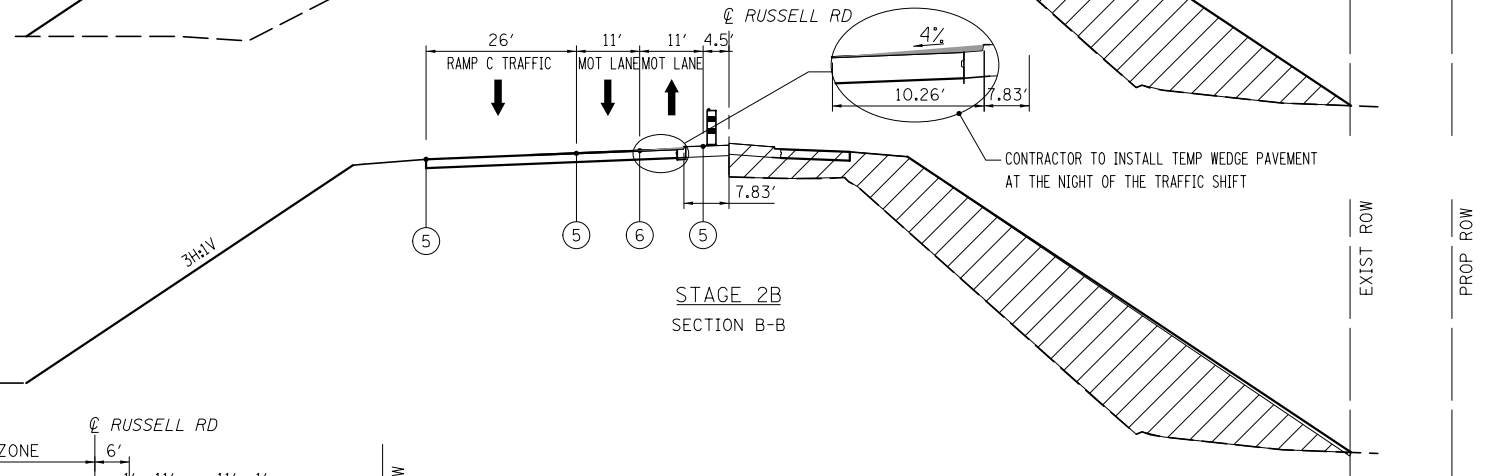
STAGE 2A
AND STAGE 2B
SECTION C-C



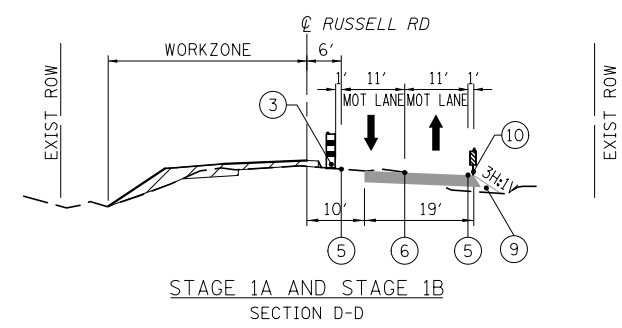
STAGE 1A
SECTION B-B



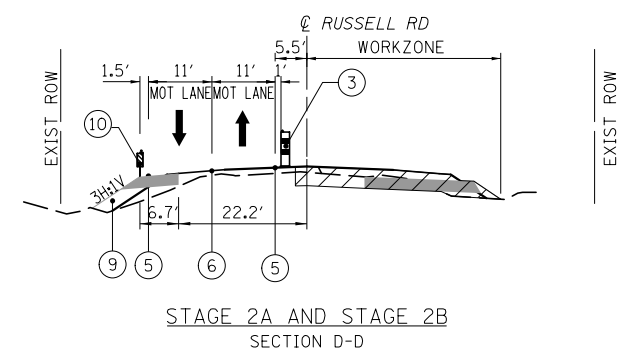
STAGE 2A
SECTION B-B



STAGE 2B
SECTION B-B



STAGE 1A AND STAGE 1B
SECTION D-D



STAGE 2A AND STAGE 2B
SECTION D-D

LEGEND

- ① TEMPORARY CONCRETE BARRIER WITH BARRIER WALL MARKERS, TYPE C
 - ② RELOCATE TEMPORARY CONCRETE BARRIER
 - ③ DRUMS AT 50'C-C WITH BIDIRECTIONAL STEADY BURN LIGHTS
 - ④ PAVEMENT MARKING REMOVAL
 - ⑤ PAVEMENT MARKING TAPE, TYPE III 4" WHITE
 - ⑥ PAVEMENT MARKING TAPE, TYPE III 4" YELLOW, DOUBLE LINE
 - ⑦ PAVEMENT MARKING TAPE, TYPE III 4" YELLOW
 - ⑧ WORK ZONE PAVEMENT MARKING REMOVAL
 - ⑨ EMBANKMENT
 - ⑩ VERTICAL PANELS WITH BIDIRECTIONAL STEADY BURN LIGHTS
- TEMPORARY PAVEMENT
HOT-MIX ASPHALT BINDER COURSE, IL-19mm, N50, 8"
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5mm, N50, 2"

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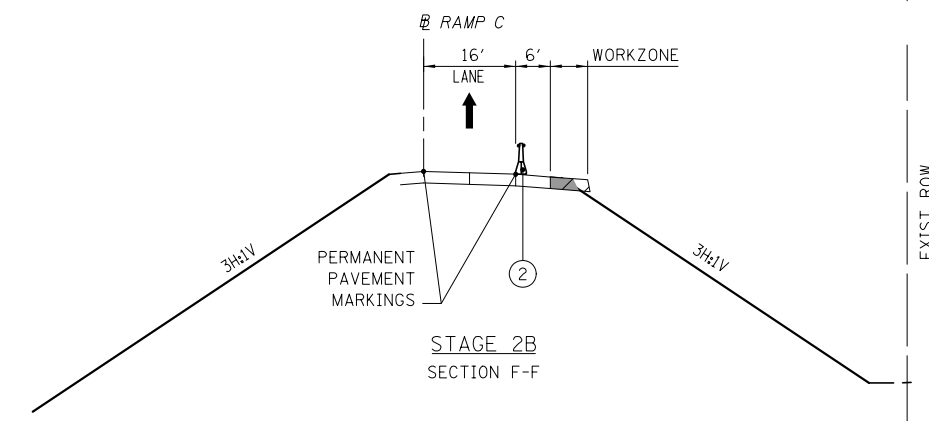
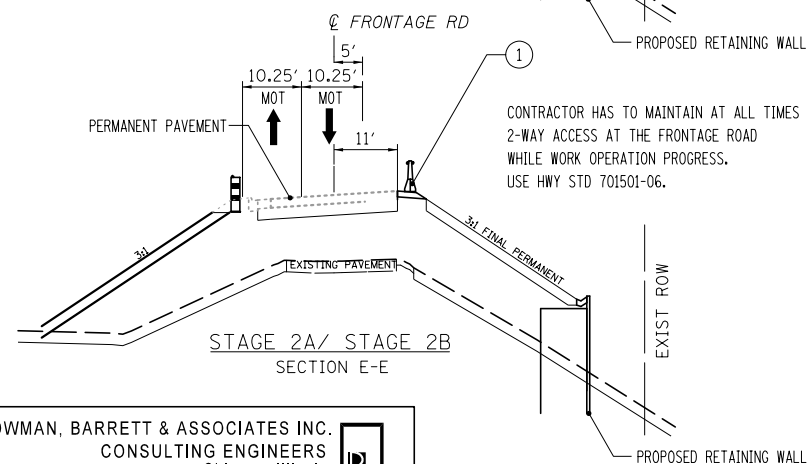
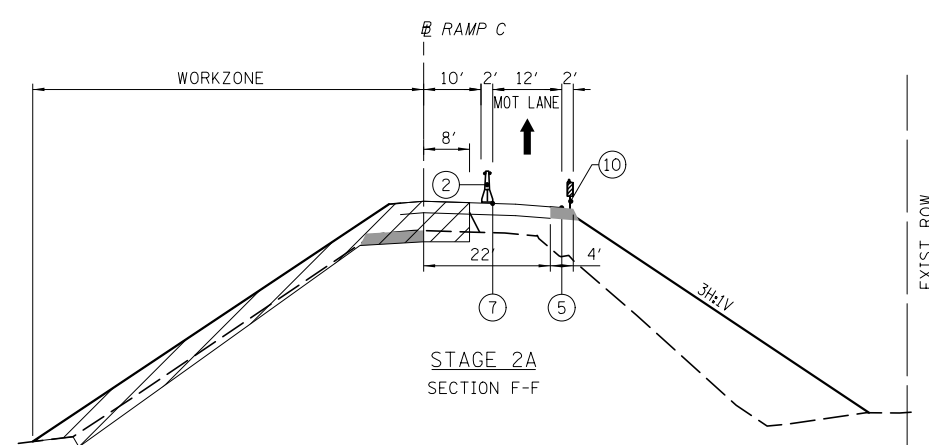
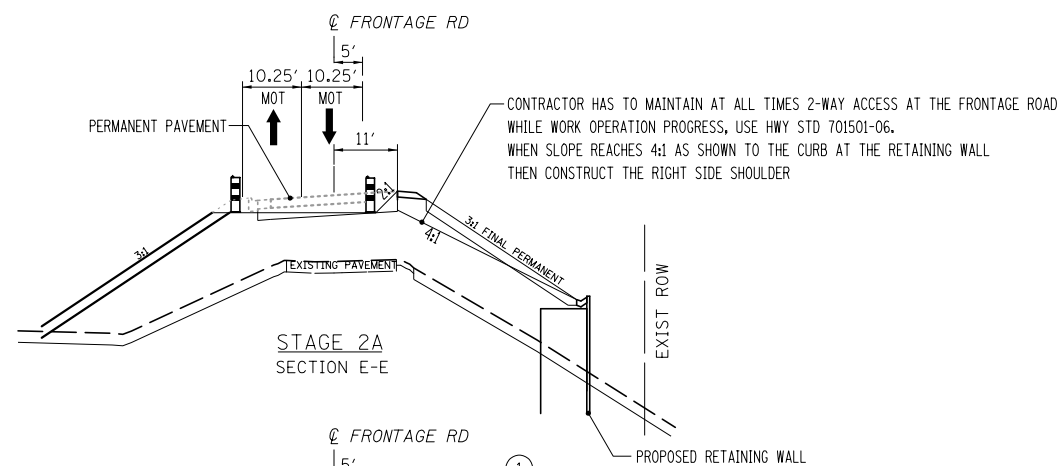
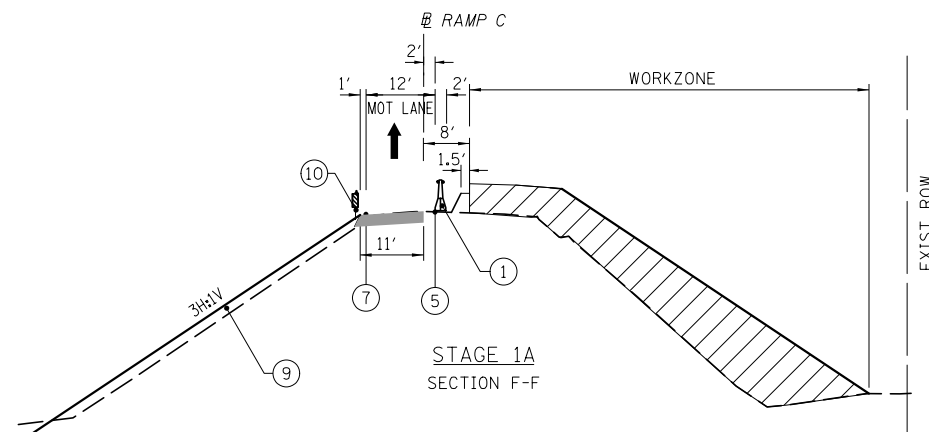
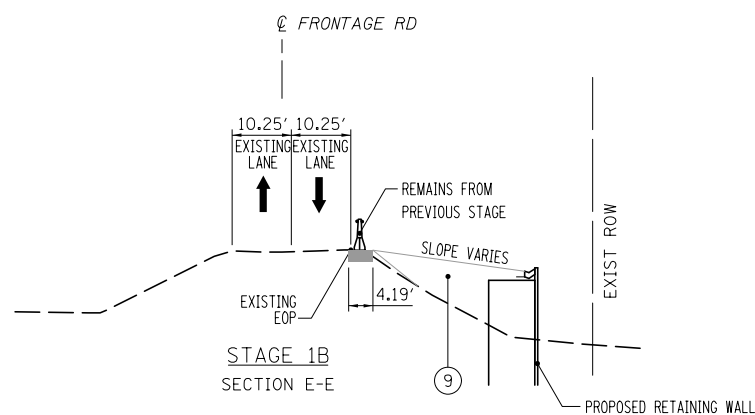
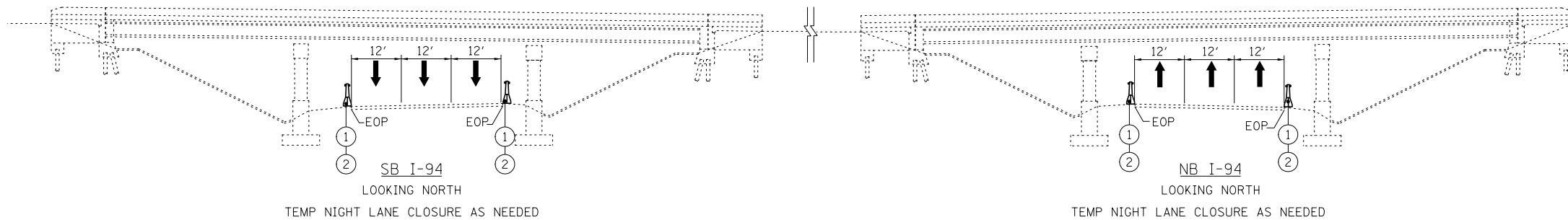
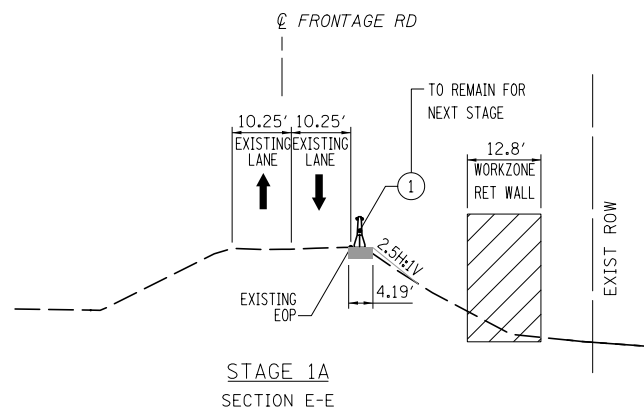
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC TYPICAL SECTIONS			
SCALE: NA	SHEET NO. 1 OF 2 SHEETS	STA. NA TO STA. NA	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	27
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

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LEGEND

- ① TEMPORARY CONCRETE BARRIER WITH BARRIER WALL MARKERS, TYPE C
 - ② RELOCATE TEMPORARY CONCRETE BARRIER
 - ③ DRUMS AT 50'C-C WITH BIDIRECTIONAL STEADY BURN LIGHTS
 - ④ PAVEMENT MARKING REMOVAL
 - ⑤ PAVEMENT MARKING TAPE, TYPE III 4" WHITE
 - ⑥ PAVEMENT MARKING TAPE, TYPE III 4" YELLOW, DOUBLE LINE
 - ⑦ PAVEMENT MARKING TAPE, TYPE III 4" YELLOW
 - ⑧ WORK ZONE PAVEMENT MARKING REMOVAL
 - ⑨ EMBANKMENT
 - ⑩ VERTICAL PANELS WITH BIDIRECTIONAL STEADY BURN LIGHTS
- TEMPORARY PAVEMENT
HOT-MIX ASPHALT BINDER COURSE, IL-19mm, N50, 8"
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL 9.5mm, N50, 2"

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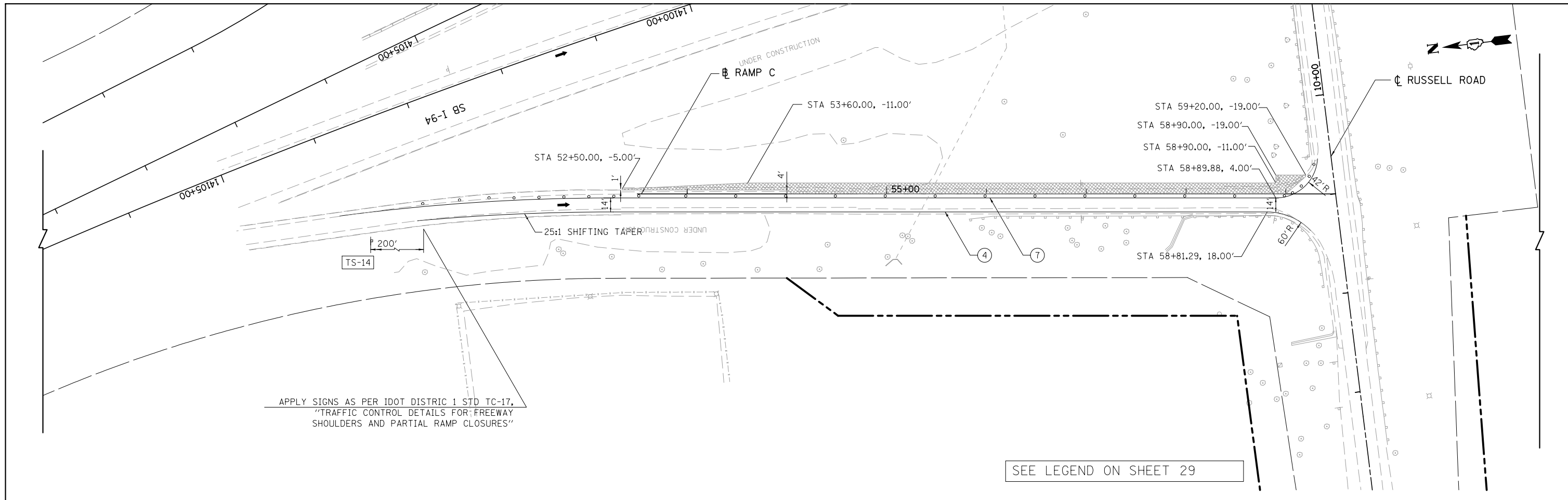
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DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC TYPICAL SECTIONS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60L76				
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DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
PRESTAGE RAMP C**

SCALE: 1"=50' SHEET NO. 1 OF 14 SHEETS STA. NA TO STA. NA

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60L76			ILLINOIS FED. AID PROJECT	

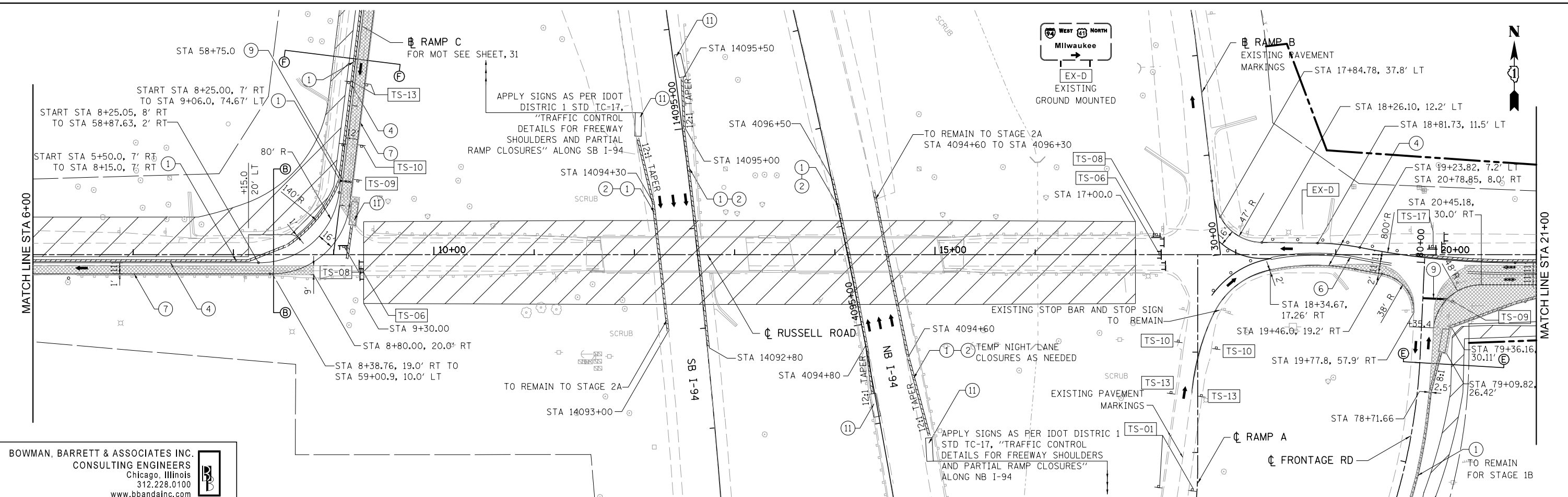
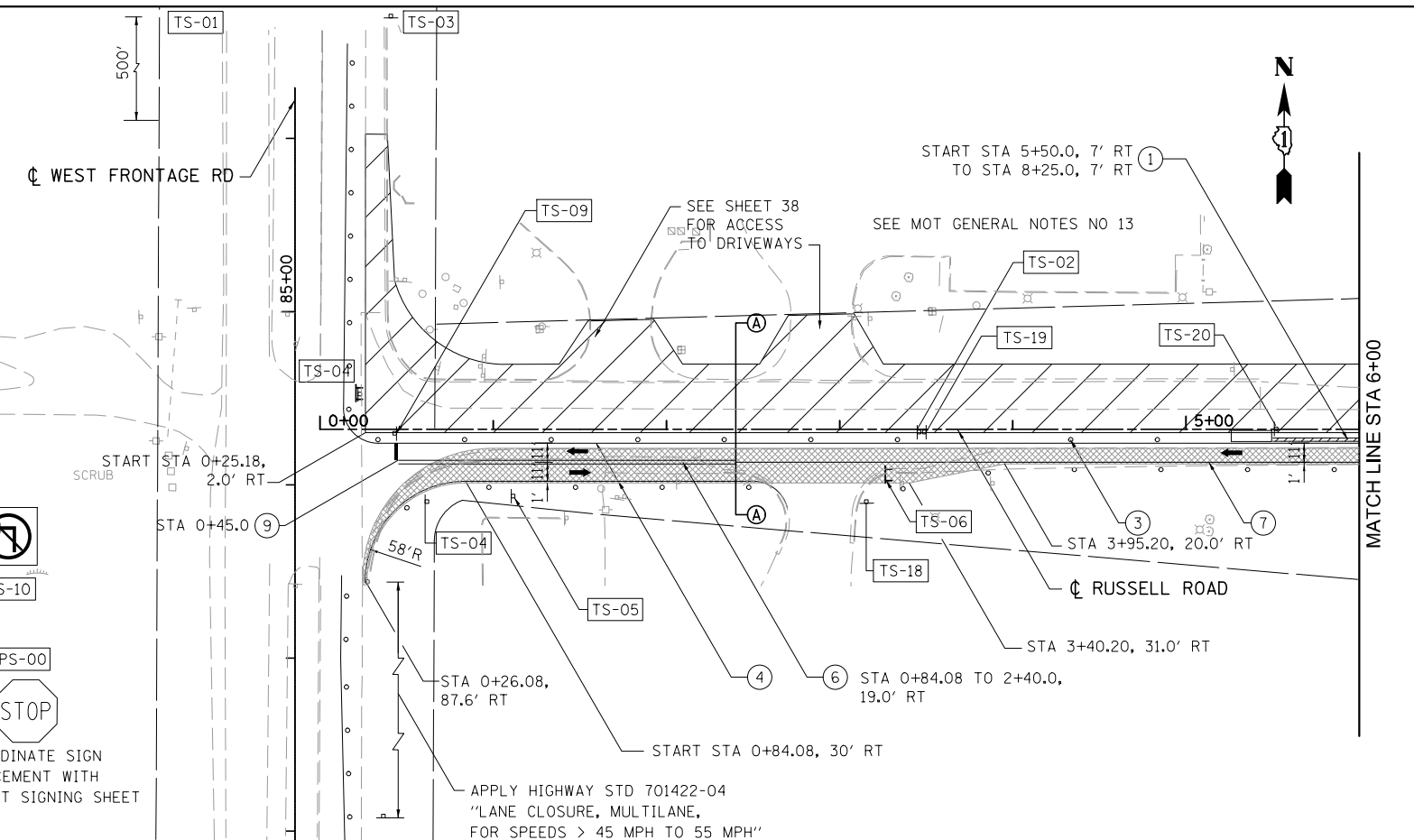
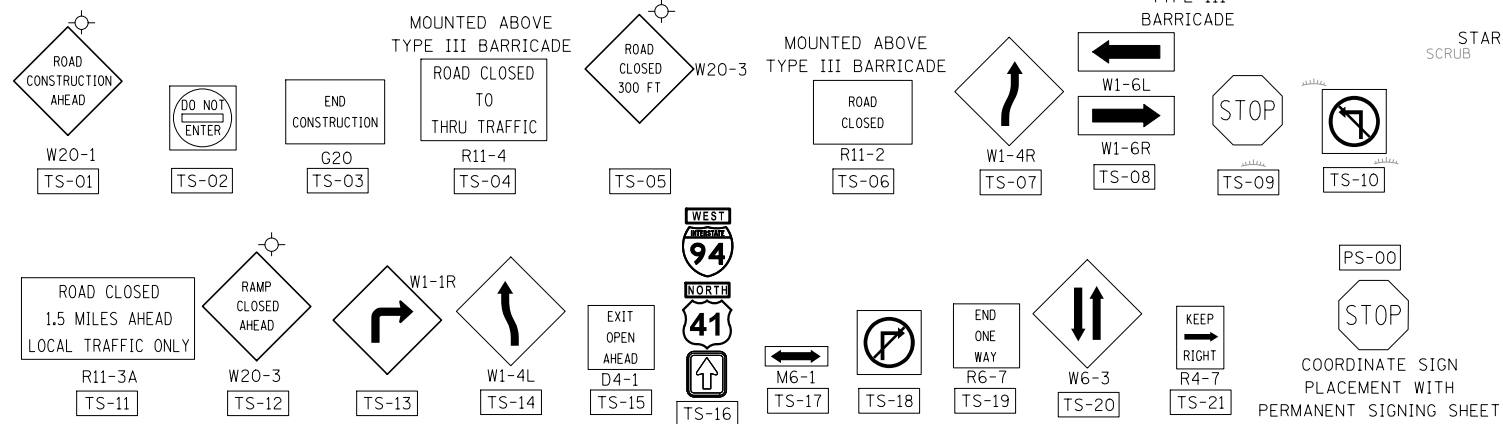
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LEGEND

- TYPE III BARRICADE
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- TEMPORARY PAVEMENT
- WORKZONE
- TEMPORARY CONCRETE BARRIER WITH BARRIER WALL MARKERS, TYPE C
- RELOCATE TEMPORARY CONCRETE BARRIER
- DRUMS AT 50'C-C WITH BIDIRECTIONAL STEADY BURN LIGHTS

- PAVEMENT MARKING TAPE, TYPE III 4" WHITE
- WORKZONE PAVEMENT MARKING REMOVAL
- PAVEMENT MARKING TAPE, TYPE III 4" YELLOW, DOUBLE LINE
- PAVEMENT MARKING TAPE, TYPE III 4" YELLOW
- PAVEMENT MARKING TAPE, TYPE III 8" WHITE
- PAVEMENT MARKING TAPE, TYPE III 24" WHITE
- IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
- IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3

MAINTENANCE OF TRAFFIC SIGNING



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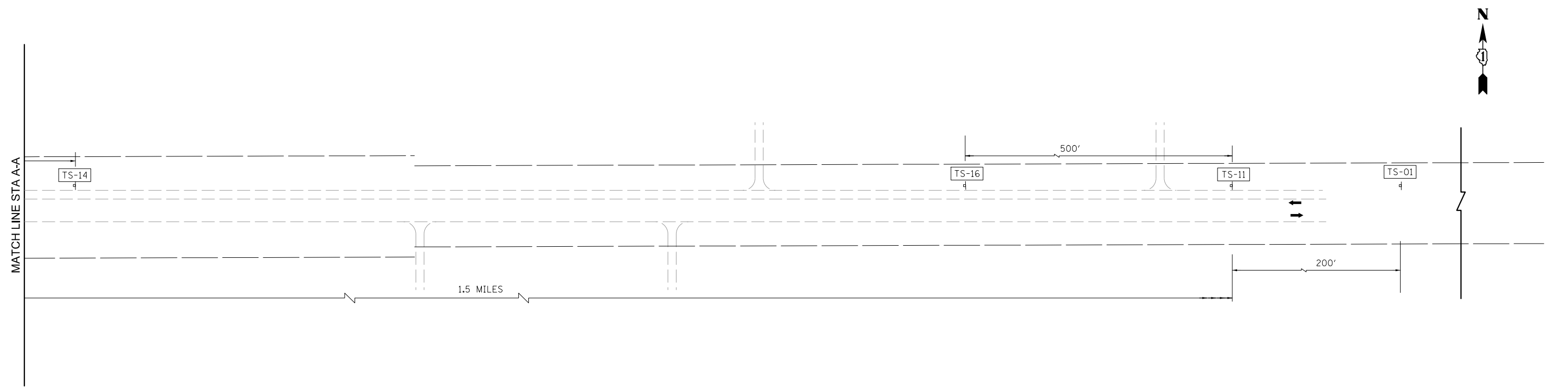
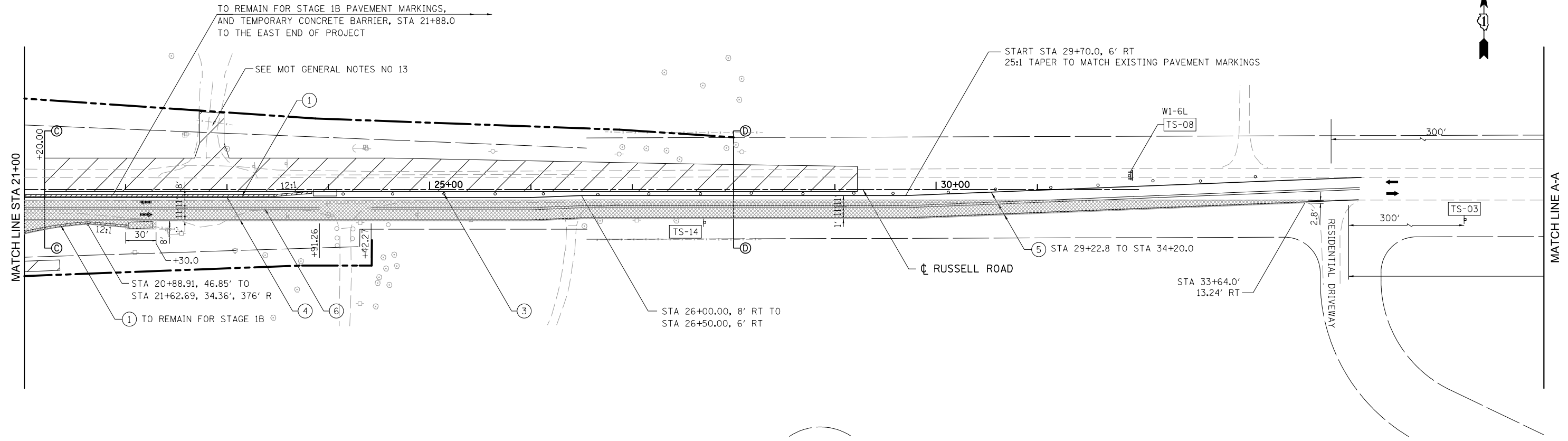
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 DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC FOR RUSSELL ROAD-STAGE 1A

SCALE: 1"=50' SHEET NO. 2 OF 14 SHEETS STA. 0+00.00 TO STA. 21+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	29
CONTRACT NO. 60LT6				
ILLINOIS FED. AID PROJECT				

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SEE LEGEND ON SHEET 29

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		CHECKED - RGR	REVISED -
		DATE - 03/09/2012	REVISED -

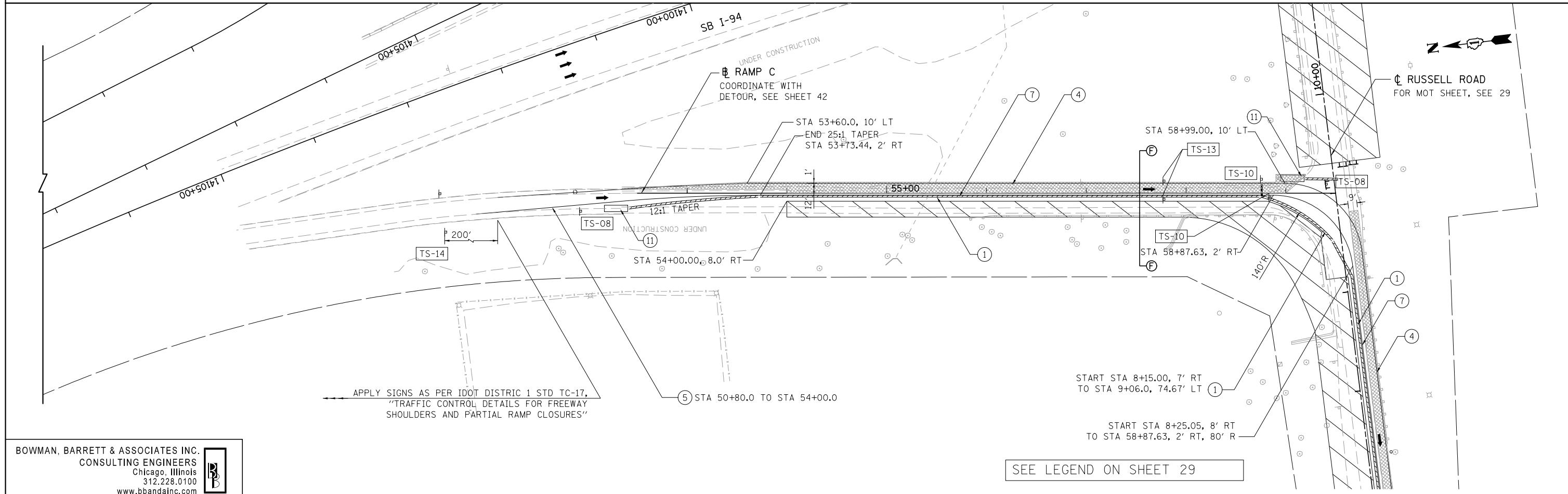
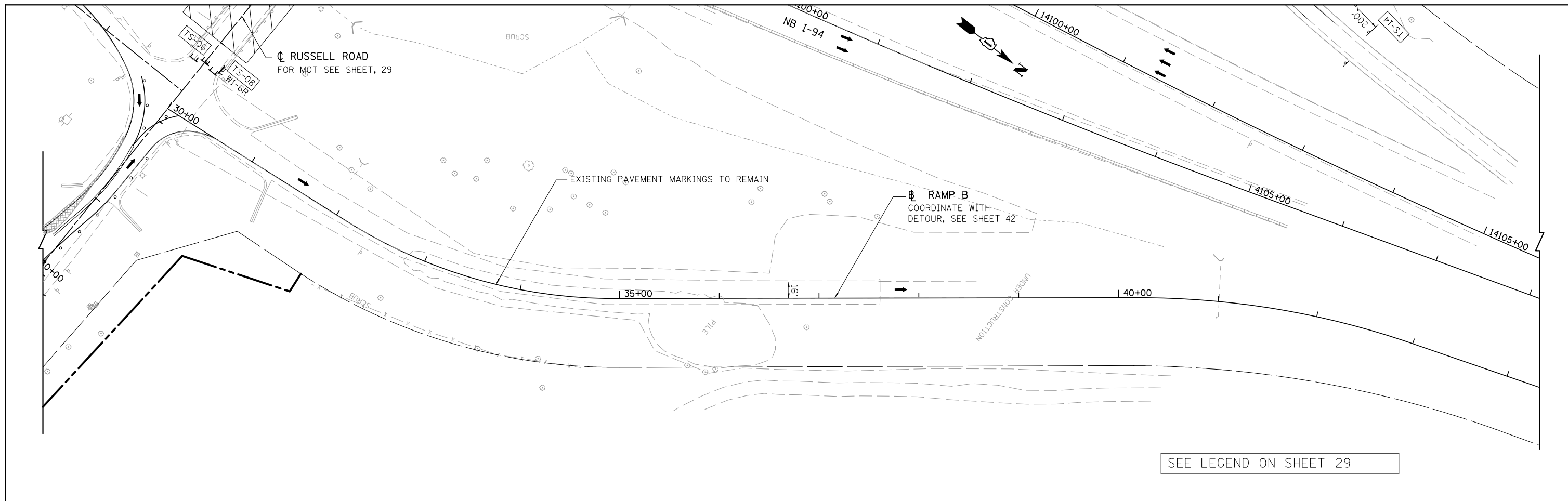
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 DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC FOR RUSSELL ROAD-STAGE 1A

SCALE: 1"=50' SHEET NO. 3 OF 14 SHEETS STA. 21+00.00 TO STA. 29+49.82

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	30
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

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APPLY SIGNS AS PER IDOT DISTRICT 1 STD TC-17,
 "TRAFFIC CONTROL DETAILS FOR FREEWAY
 SHOULDERS AND PARTIAL RAMP CLOSURES"

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		DRAWN - RA	REVISED -
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		DATE - 03/09/2012	REVISED -

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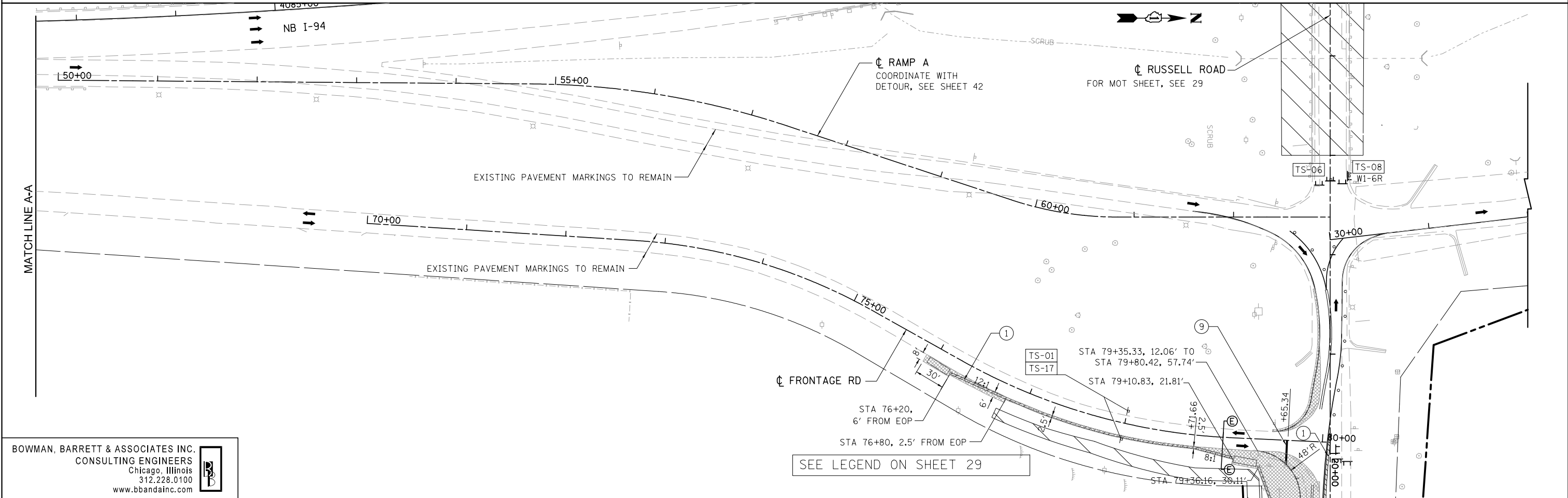
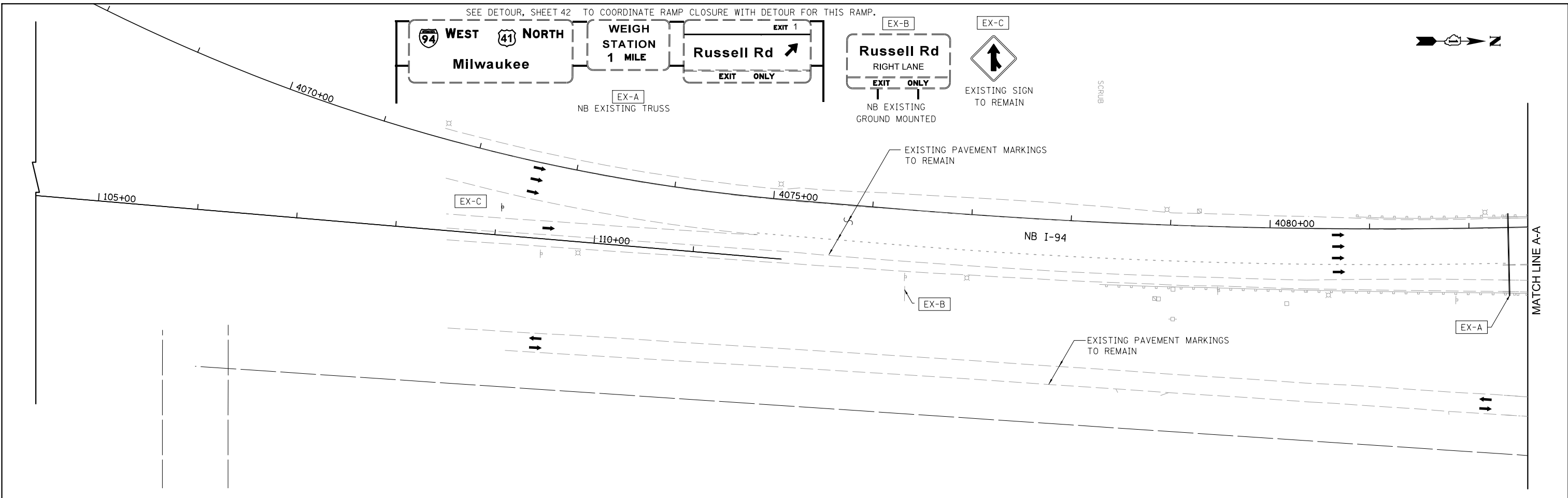
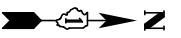
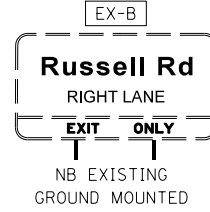
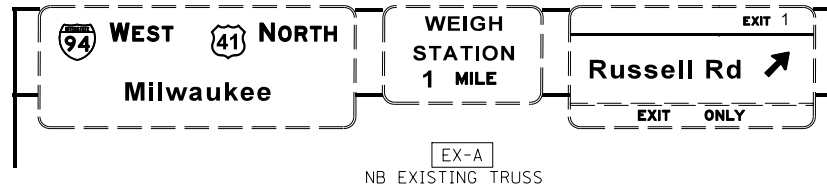
**MAINTENANCE OF TRAFFIC FOR RAMP B AND RAMP C
 STAGE 1A**

SCALE: 1"=50' SHEET NO. 4 OF 14 SHEETS STA. NA TO STA. NA

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	31
CONTRACT NO. 60LT6				
ILLINOIS FED. AID PROJECT				

S:\1101\95\CADD\60LT6\Russell Rdwy\60LT6 Sheets\0160LT6-sh1-stage1a.dgn

SEE DETOUR, SHEET 42 TO COORDINATE RAMP CLOSURE WITH DETOUR FOR THIS RAMP.



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FILE NAME = #FILES#	USER NAME = default	DESIGNED - RA	REVISED -
		DRAWN - RA	REVISED -
		CHECKED - RGR	REVISED -
		DATE - 01/25/2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

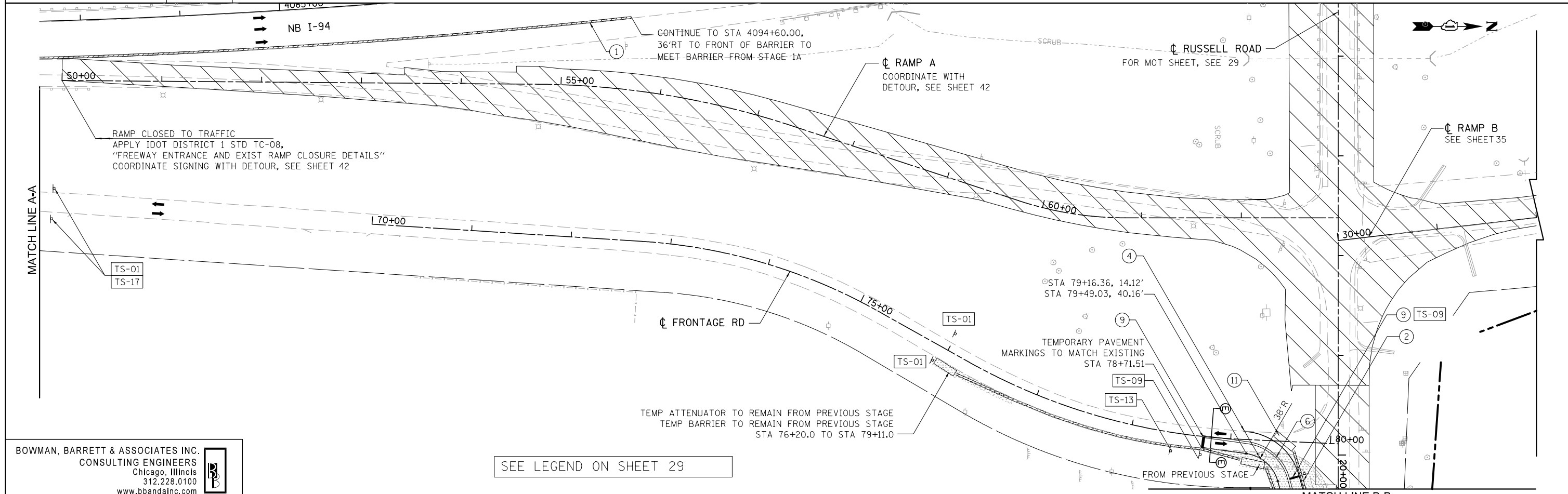
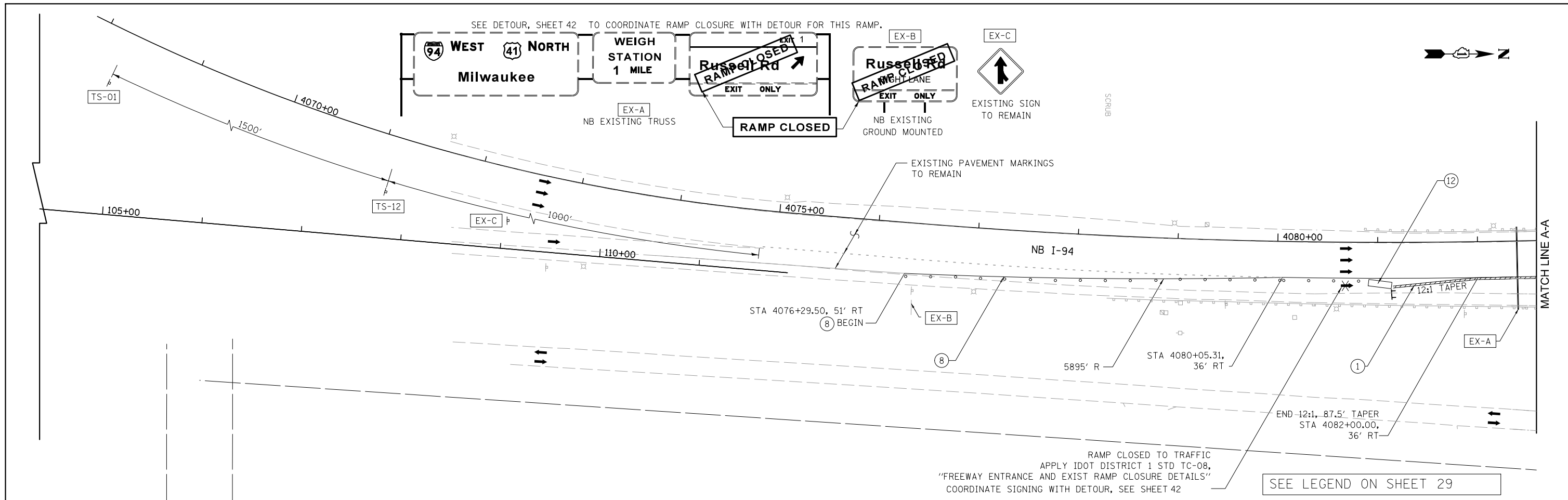
**MAINTENANCE OF TRAFFIC FOR RAMP A AND FRONTAGE ROAD
 STAGE 1A**

SCALE: 1"=50' SHEET NO. 5 OF 14 SHEETS STA. NA TO STA. NA

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	32
CONTRACT NO. 60L76				

ILLINOIS FED. AID PROJECT

S:\1101\95\CADD\60L76_Russell Rd\60L76_Sheets\0160L76_sht-stage1a.dgn



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		DATE - 03/09/2012	REVISED -

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DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC FOR RAMP A AND FRONTAGE ROAD
STAGE 1B

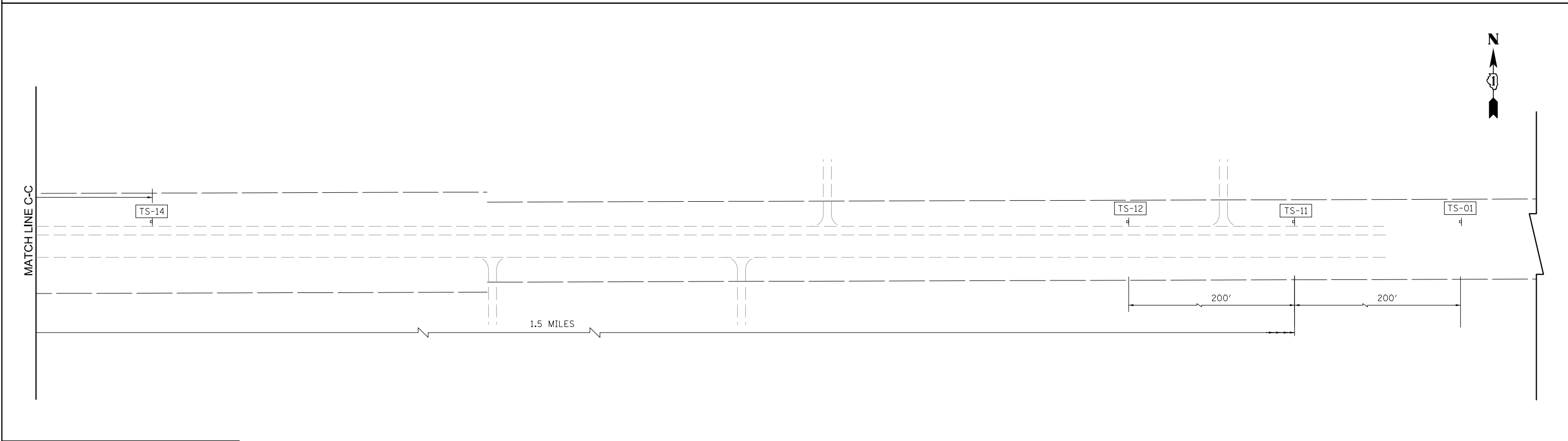
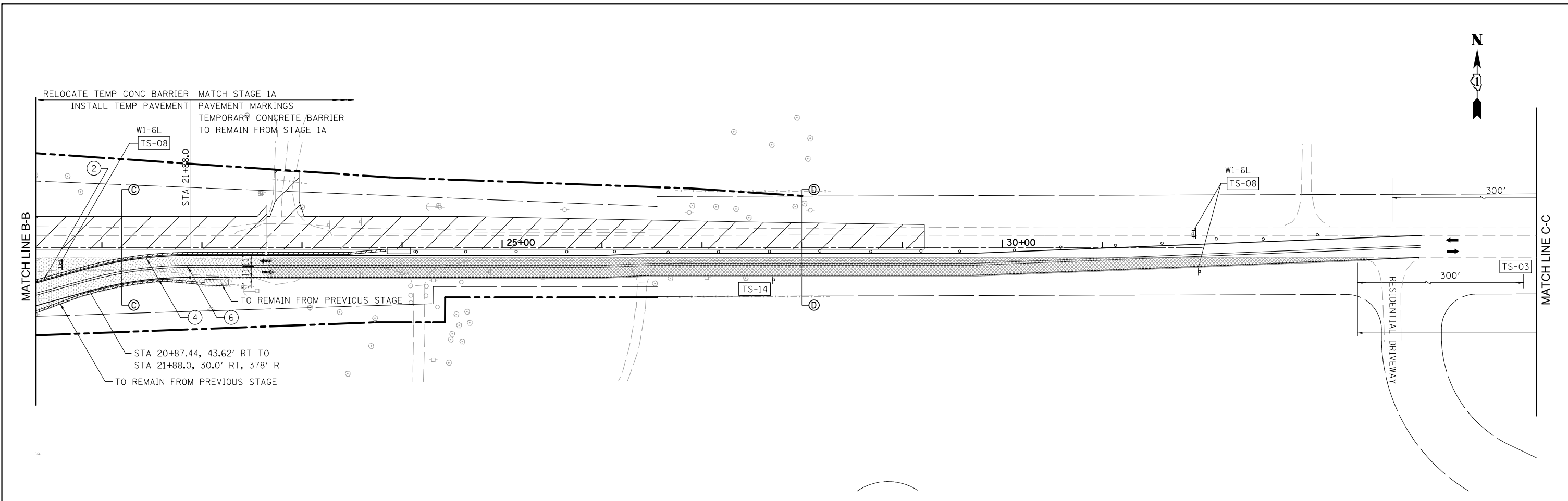
SCALE: 1"=50'

SHEET NO. 6 OF 14 SHEETS

STA. NA TO STA. NA

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	33
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

S:\1101\95\CADD\60L76 Russell Rd\60L76 Sheets\0160L76-ah+stage1B.dgn



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SEE LEGEND ON SHEET 29

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	PLOT DATE = 2/10/2012	DATE - 01/25/2012	REVISED -

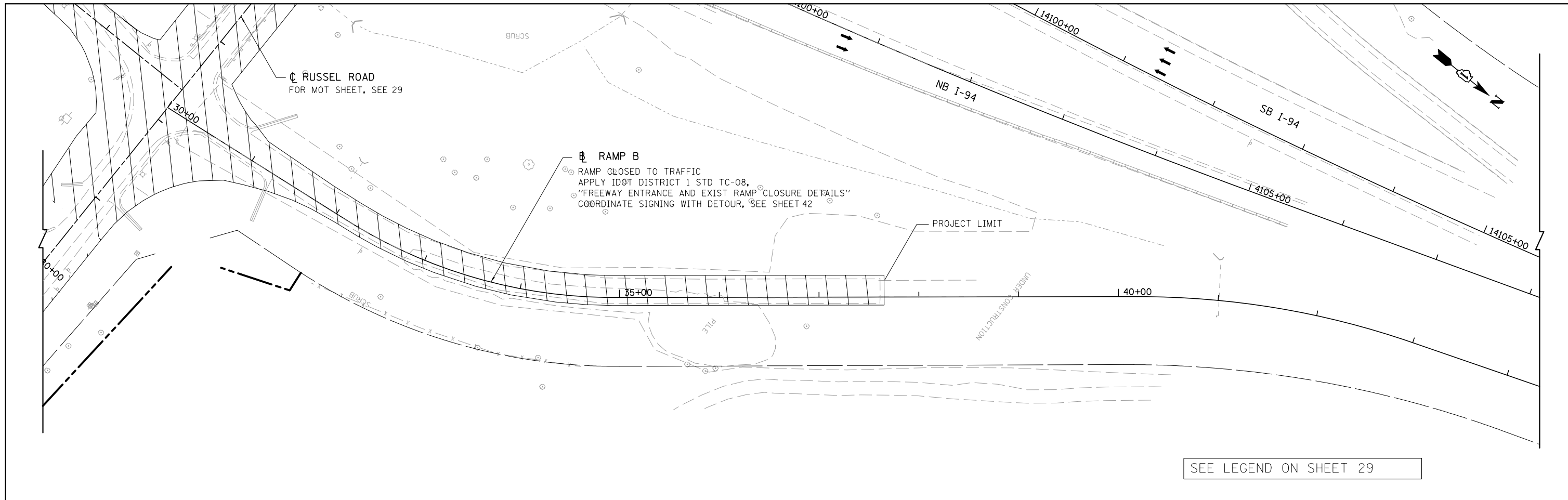
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC FOR RAMP A AND FRONTAGE ROAD
STAGE 1B

SCALE: 1"=50' SHEET NO. 7 OF 14 SHEETS STA. NA TO STA. NA

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	34
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

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SEE LEGEND ON SHEET 29

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FILE NAME = *FILES*	USER NAME = default	DESIGNED - RA	REVISED -
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	PLOT DATE = 2/10/2012	DATE - 01/25/2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC FOR RAMP B
 STAGE 1B**

SCALE: 1"=50' SHEET NO. 8 OF 14 SHEETS STA. NA TO STA. NA

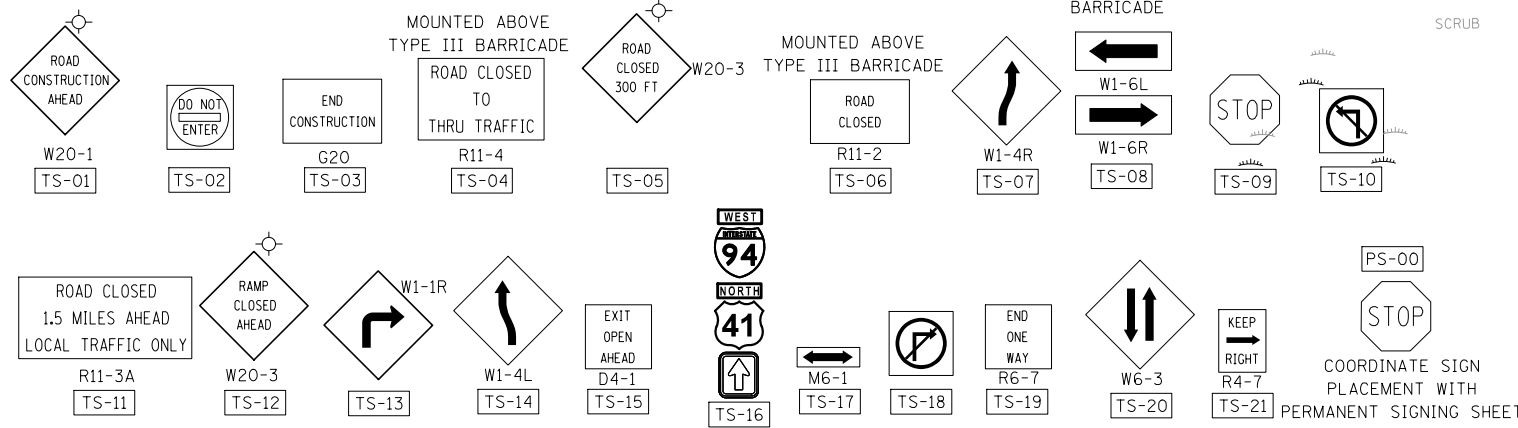
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	35
CONTRACT NO. 60L76			ILLINOIS FED. AID PROJECT	

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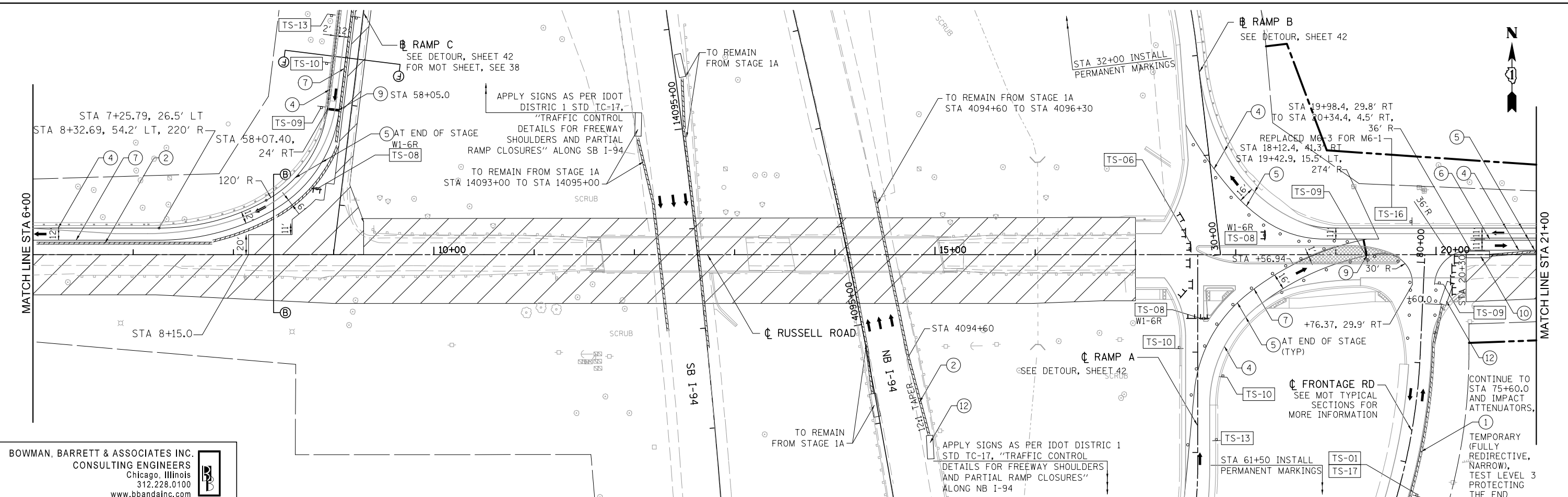
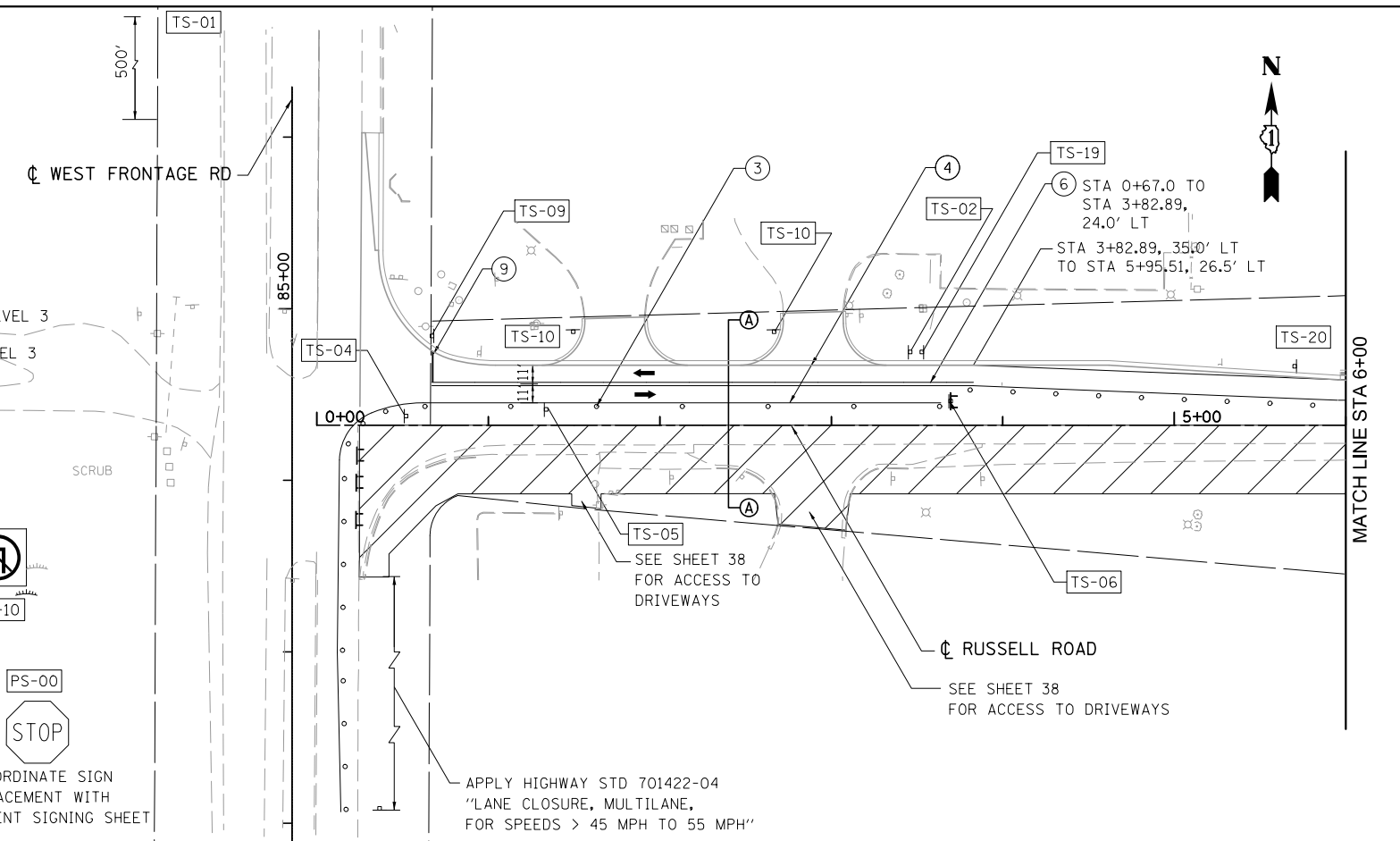
LEGEND

- TYPE III BARRICADE
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- TEMPORARY PAVEMENT
- WORKZONE
- TEMPORARY CONCRETE BARRIER WITH BARRIER WALL MARKERS, TYPE C
- RELOCATE TEMPORARY CONCRETE BARRIER
- DRUMS AT 50'C-C WITH BIDIRECTIONAL STEADY BURN LIGHTS

MAINTENANCE OF TRAFFIC SIGNING



- PAVEMENT MARKING TAPE, TYPE III 4" WHITE
- WORKZONE PAVEMENT MARKING REMOVAL
- PAVEMENT MARKING TAPE, TYPE III 4" YELLOW, DOUBLE LINE
- PAVEMENT MARKING TAPE, TYPE III 4" YELLOW
- PAVEMENT MARKING TAPE, TYPE III 8" WHITE
- PAVEMENT MARKING TAPE, TYPE III 24" WHITE
- IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
- IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3



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		DATE - 03/09/2012	REVISED -

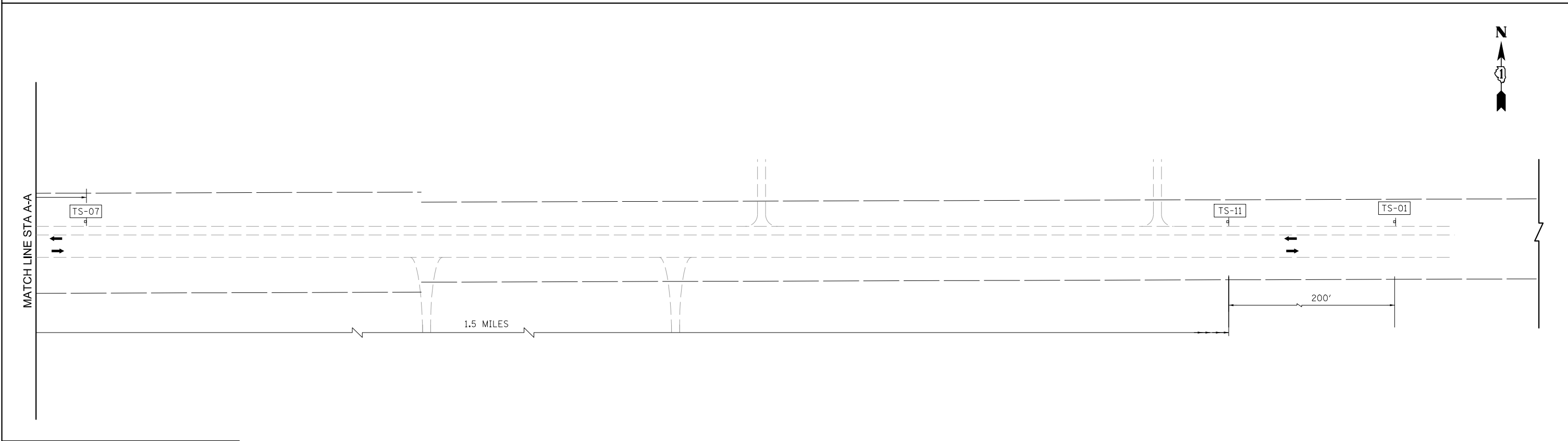
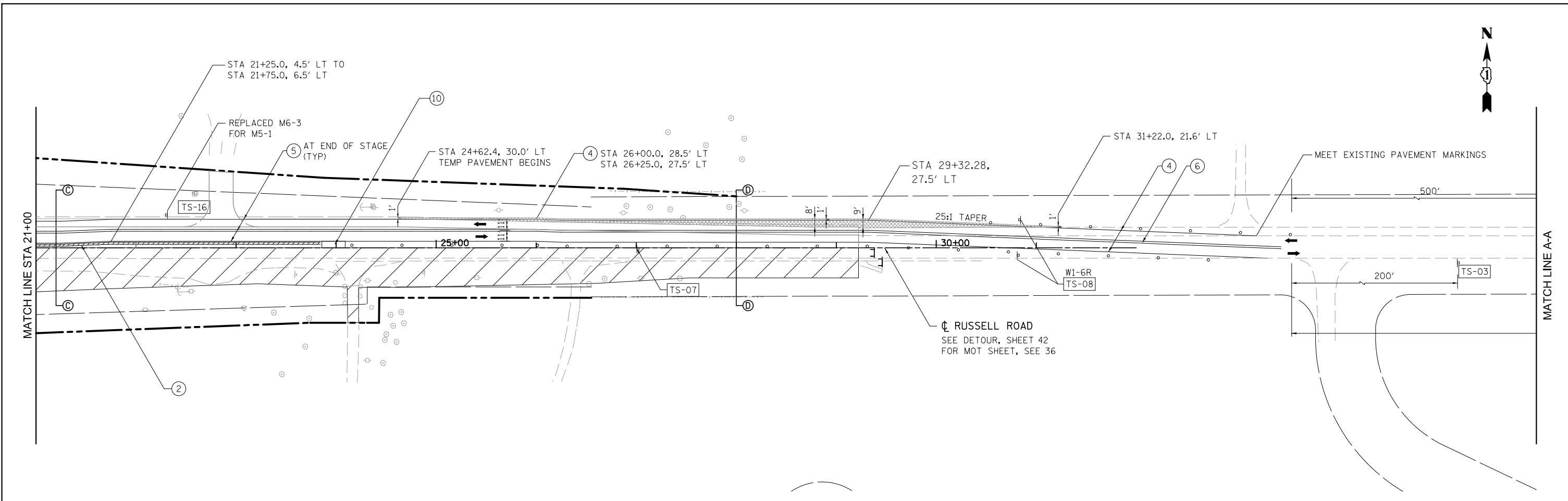
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC FOR RUSSELL ROAD-STAGE 2A

SCALE: 1"=50' SHEET NO. 9 OF 14 SHEETS STA. 0+00.00 TO STA. 21+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	36
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

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SEE LEGEND ON SHEET 36

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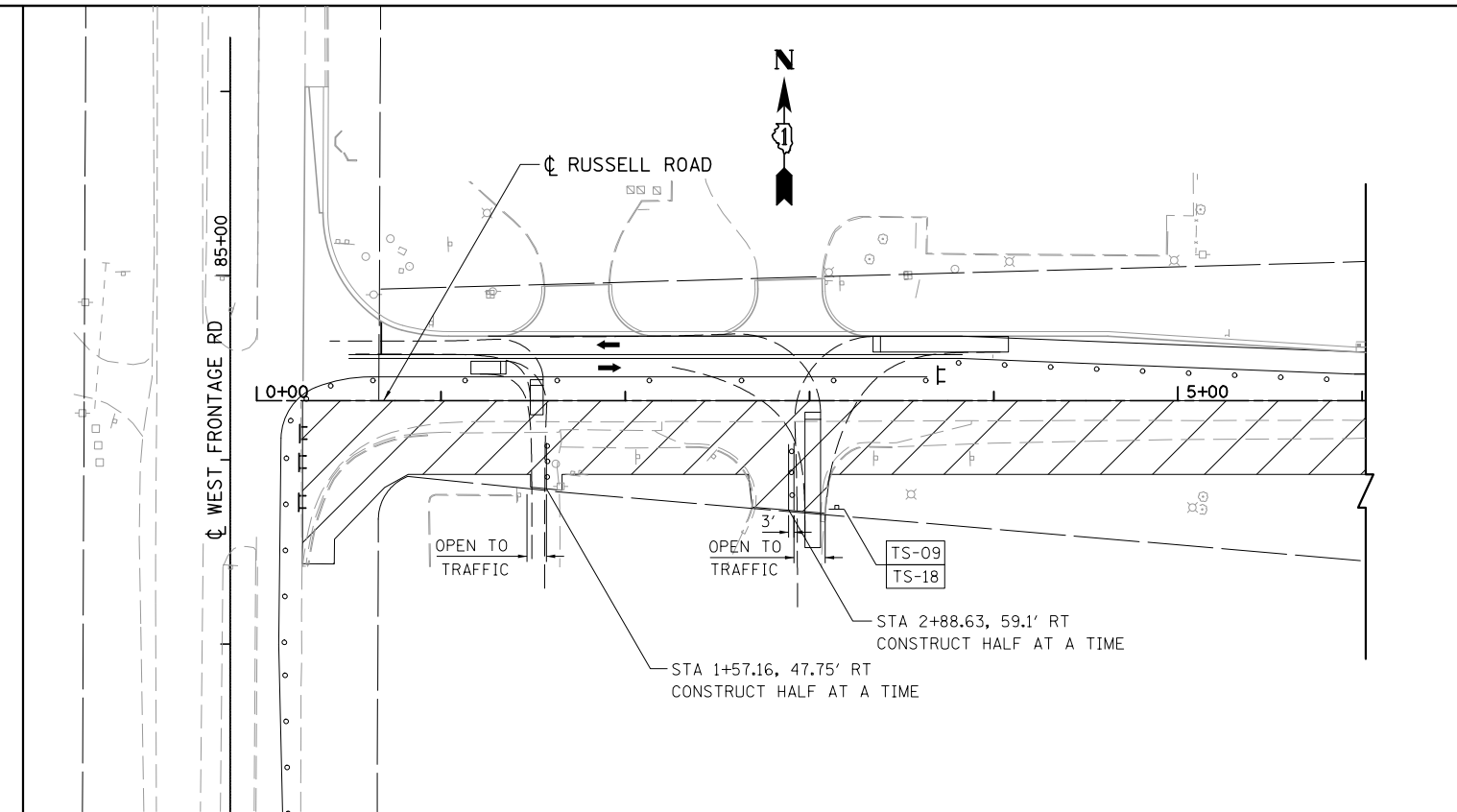
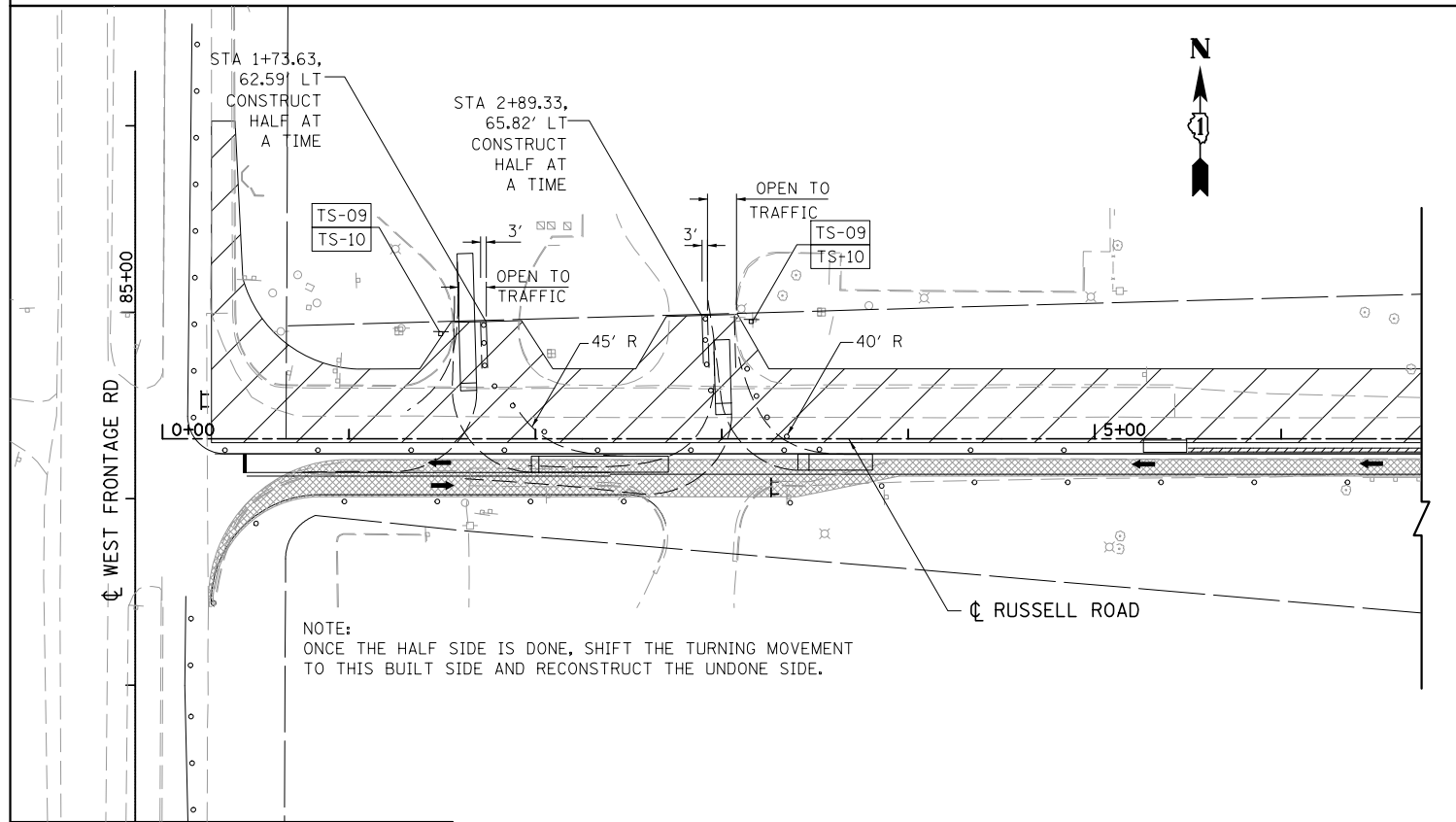
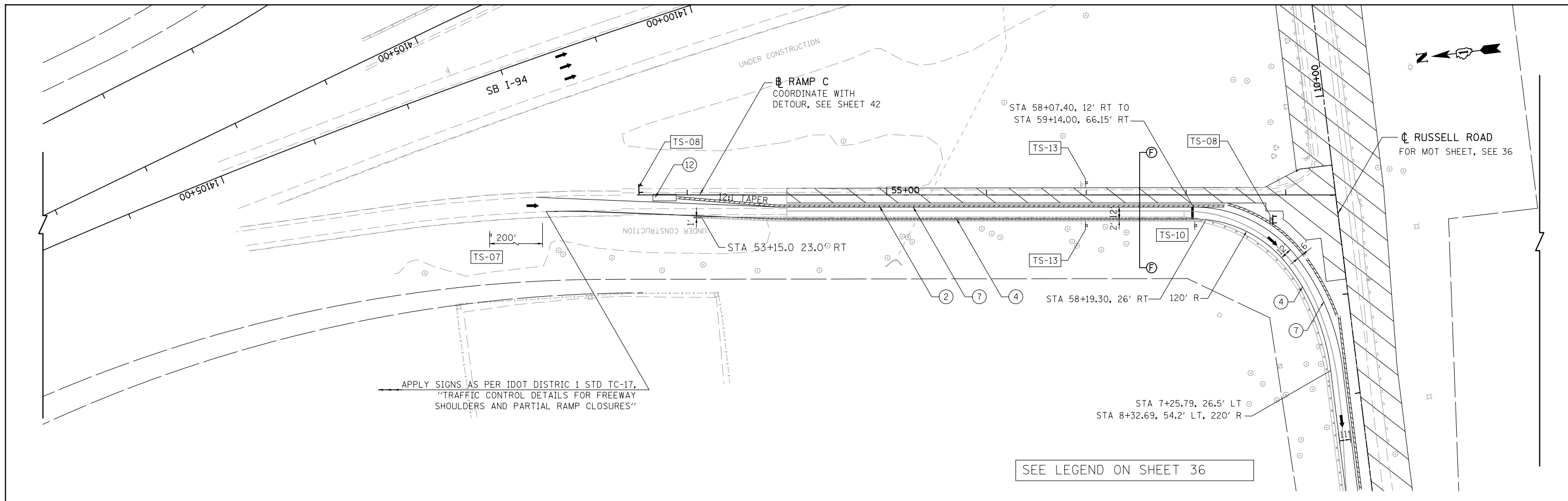
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC FOR RUSSELL ROAD-STAGE 2A

SCALE: 1"=50' SHEET NO. 10 OF 14 SHEETS STA. 21+00.00 TO STA. 29+49.82

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	37
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

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**DRIVEWAY ACCESS DETAIL
STAGE 1A**

**DRIVEWAY ACCESS DETAIL
STAGE 2A**

FILE NAME = #FILES#	USER NAME = default	DESIGNED - RA	REVISED -
		DRAWN - RA	REVISED -
		CHECKED - RGR	REVISED -
		DATE - 03/09/2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC FOR RAMP C
STAGE 2A**

SCALE: 1"=50'

SHEET NO. 11 OF 14 SHEETS

STA. NA TO STA. NA

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	38
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

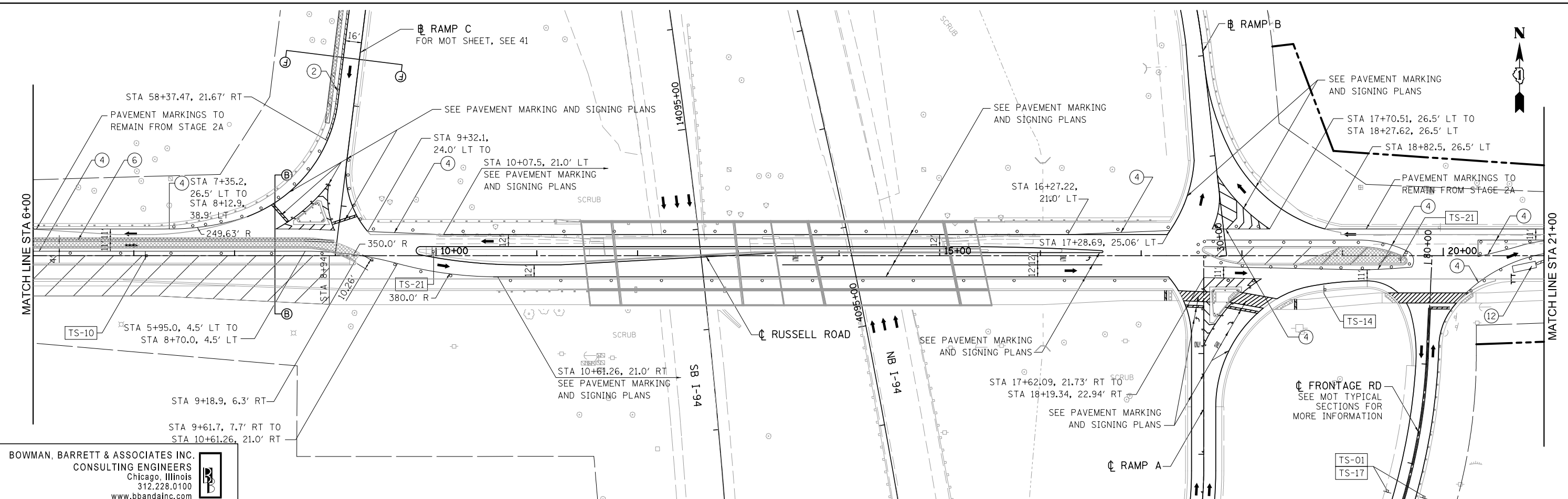
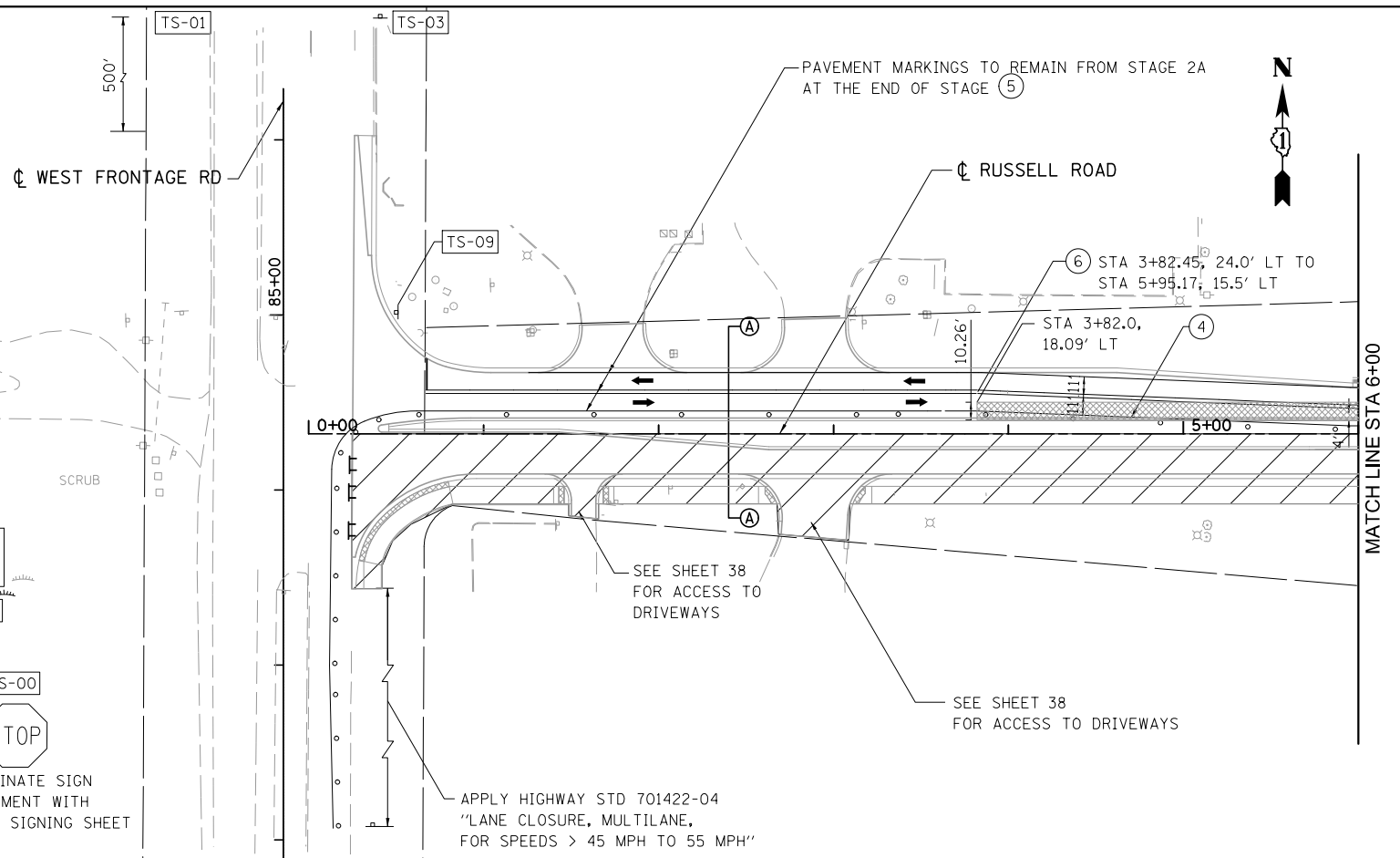
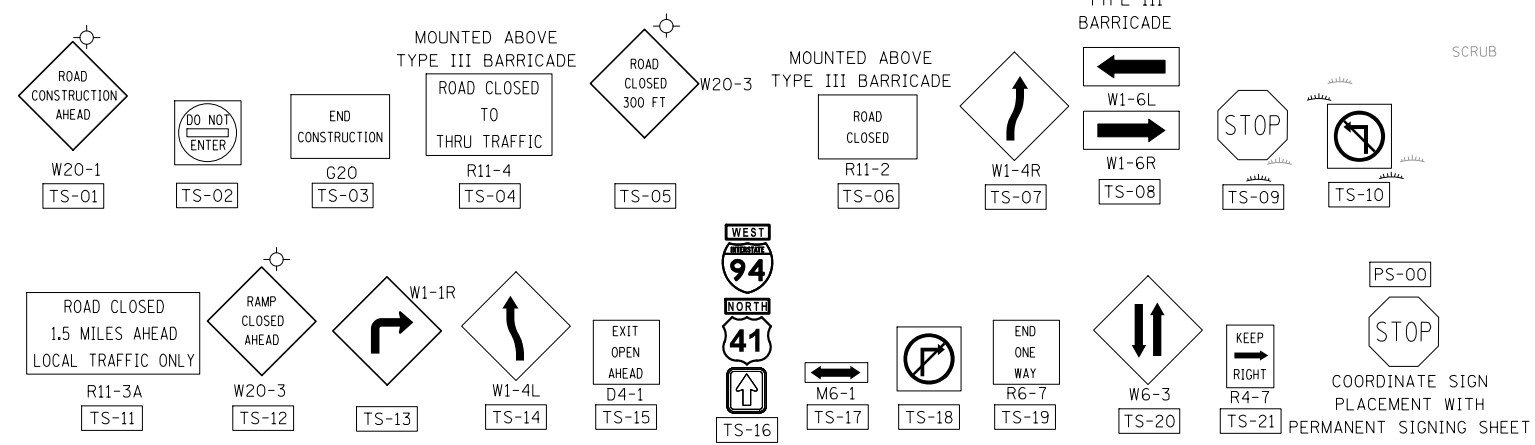
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LEGEND

- TYPE III BARRICADE
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- TEMPORARY PAVEMENT
- WORKZONE
- TEMPORARY CONCRETE BARRIER WITH BARRIER WALL MARKERS, TYPE C
- RELOCATE TEMPORARY CONCRETE BARRIER
- DRUMS AT 50'C-C WITH BIDIRECTIONAL STEADY BURN LIGHTS

- PAVEMENT MARKING TAPE, TYPE III 4" WHITE
- WORKZONE PAVEMENT MARKING REMOVAL
- PAVEMENT MARKING TAPE, TYPE III 4" YELLOW, DOUBLE LINE
- PAVEMENT MARKING TAPE, TYPE III 4" YELLOW
- PAVEMENT MARKING TAPE, TYPE III 8" WHITE
- PAVEMENT MARKING TAPE, TYPE III 24" WHITE
- IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
- IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3

MAINTENANCE OF TRAFFIC SIGNING



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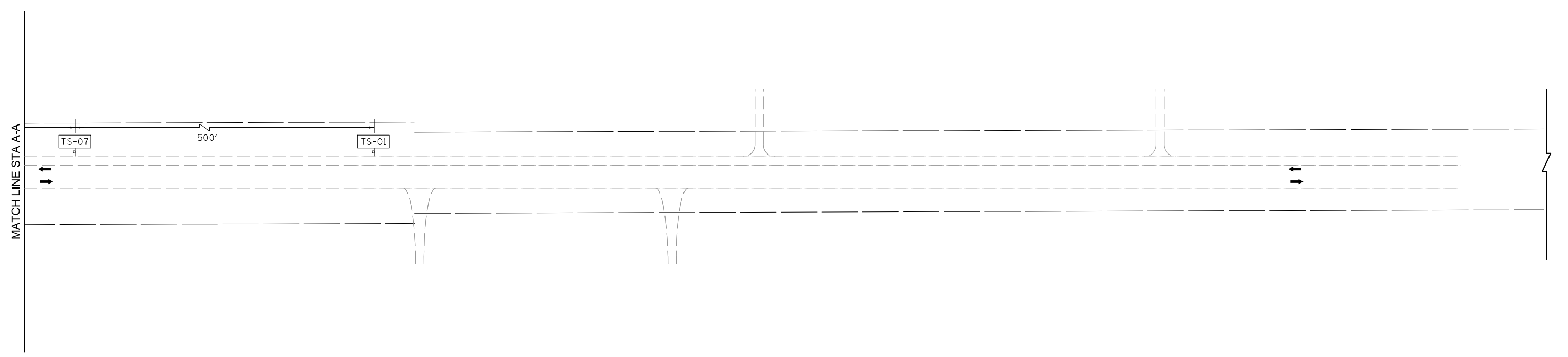
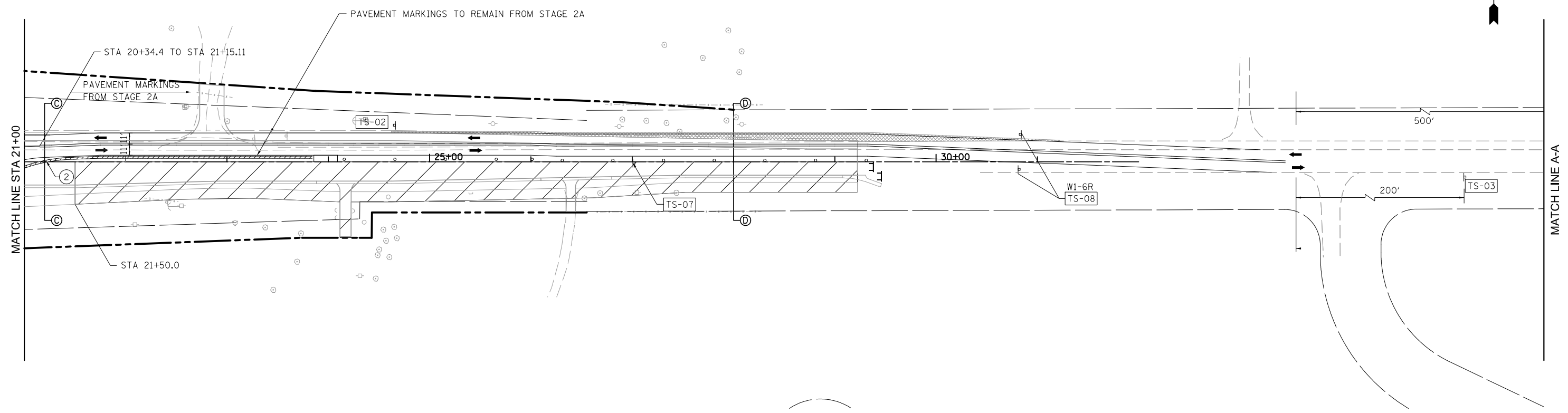
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		DATE - 03/09/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC FOR RUSSELL ROAD-STAGE 2B
 SCALE: 1"=50' SHEET NO. 12 OF 14 SHEETS STA. 0+00.00 TO STA. 21+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	39
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

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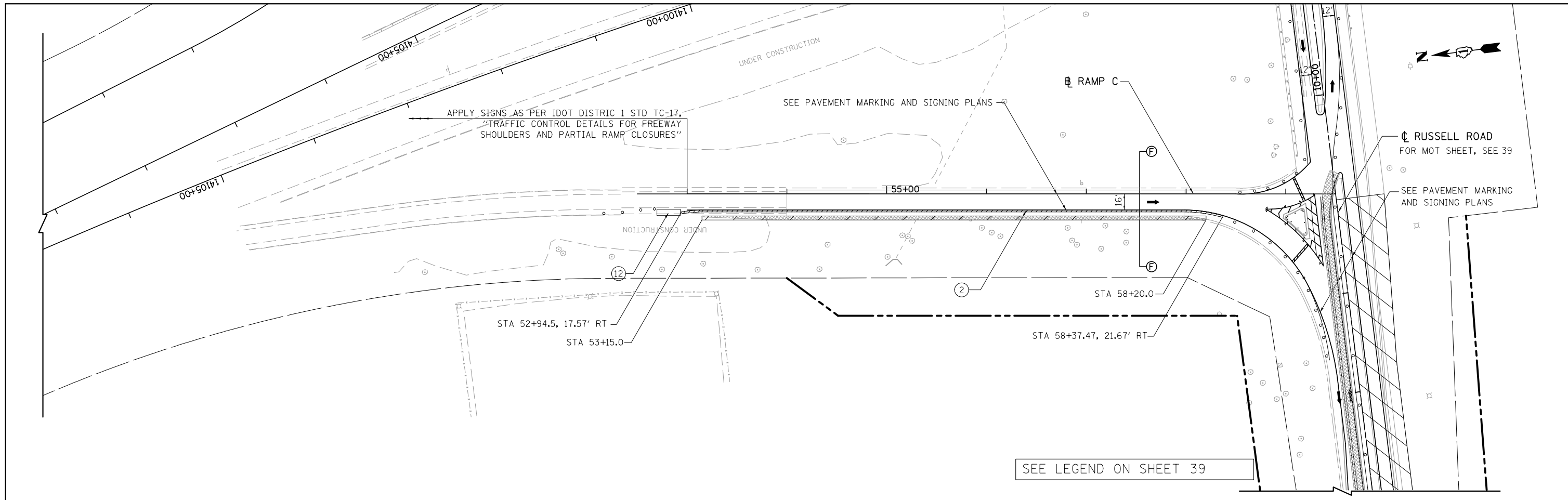
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC FOR RUSSELL ROAD-STAGE 2B

SCALE: 1"=50' SHEET NO. 13 OF 14 SHEETS STA. 21+00.00 TO STA. 29+49.82

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	40
CONTRACT NO. 60L76			ILLINOIS FED. AID PROJECT	

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SEE LEGEND ON SHEET 39

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		DRAWN - RA	REVISED -
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		DATE - 01/25/2012	REVISED -

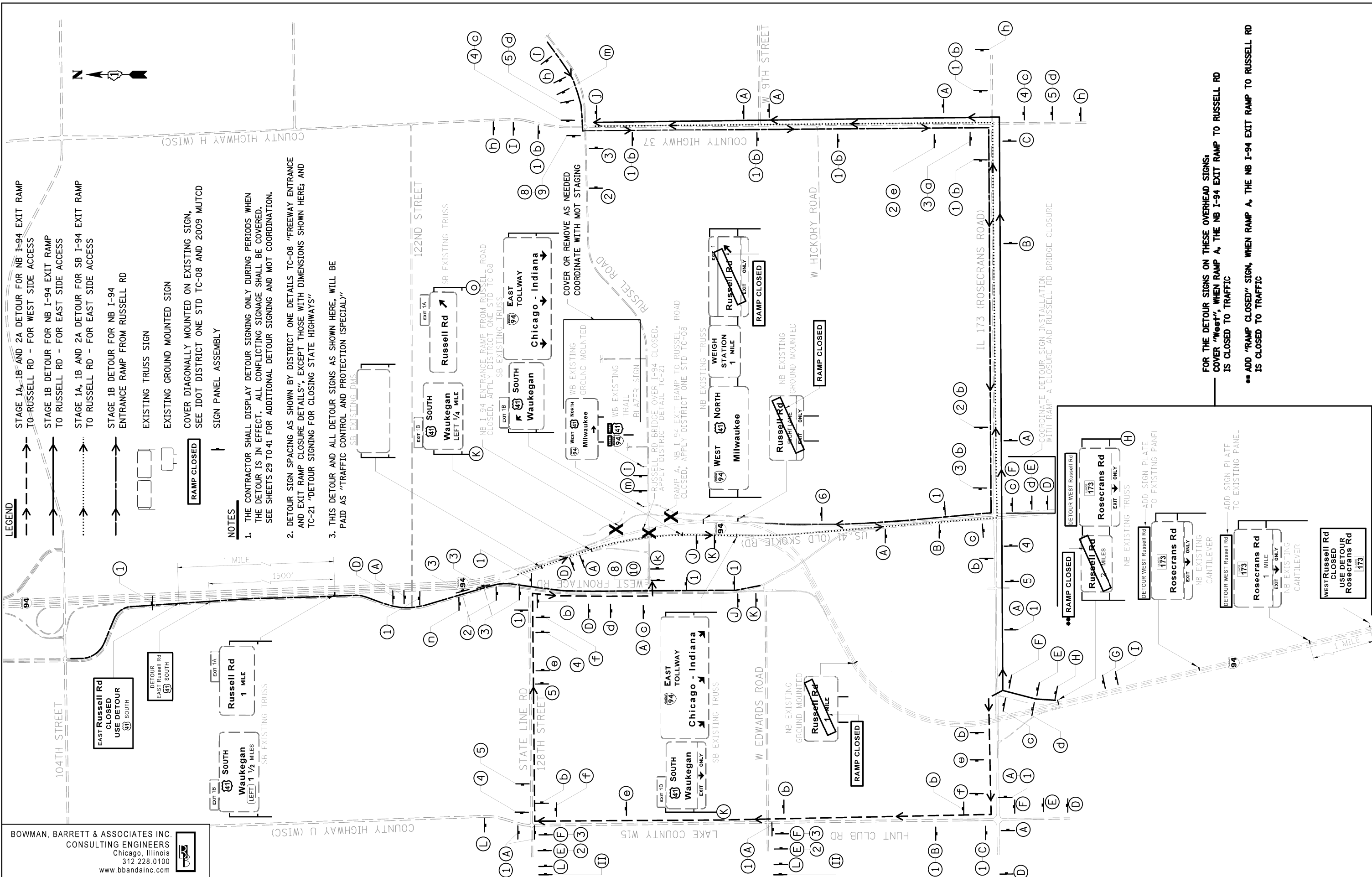
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC FOR RAMP C
 STAGE 2B**

SCALE: 1"=50' SHEET NO. 14 OF 14 SHEETS STA. NA TO STA. NA

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	41
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

S:\1101\95\CADD\60L76 Russell Rdwy\60L76 Sheets\0160L76-shr-stage13-2B.dgn



LEGEND

STAGE 1A, 1B AND 2A DETOUR FOR NB I-94 EXIT RAMP TO RUSSELL RD - FOR WEST SIDE ACCESS

STAGE 1B DETOUR FOR NB I-94 EXIT RAMP TO RUSSELL RD - FOR EAST SIDE ACCESS

STAGE 1A, 1B AND 2A DETOUR FOR SB I-94 EXIT RAMP TO RUSSELL RD - FOR EAST SIDE ACCESS

STAGE 1B DETOUR FOR NB I-94 ENTRANCE RAMP FROM RUSSELL RD

EXISTING TRUSS SIGN

EXISTING GROUND MOUNTED SIGN

COVER DIAGONALLY MOUNTED ON EXISTING SIGN, SEE IDOT DISTRICT ONE STD TC-08 AND 2009 MUTCD

SIGN PANEL ASSEMBLY

RAMP CLOSED

NOTES

1. THE CONTRACTOR SHALL DISPLAY DETOUR SIGNING ONLY DURING PERIODS WHEN THE DETOUR IS IN EFFECT. ALL CONFLICTING SIGNAGE SHALL BE COVERED. SEE SHEETS 29 TO 41 FOR ADDITIONAL DETOUR SIGNING AND MOT COORDINATION.

2. DETOUR SIGN SPACING AS SHOWN BY DISTRICT ONE DETAILS TC-08 "FREEWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS", EXCEPT THOSE WITH DIMENSIONS SHOWN HERE; AND TC-21 "DETOUR SIGNING FOR CLOSING STATE HIGHWAYS"

3. THIS DETOUR AND ALL DETOUR SIGNS AS SHOWN HERE, WILL BE PAID AS "TRAFFIC CONTROL AND PROTECTION (SPECIAL)"

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PLOT SCALE = #SCALE#	PLOT DATE = 3/9/2012

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DATE - 03/09/2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED DETOUR PLAN

SCALE: NA SHEET NO. 1 OF 3 SHEETS STA. NA TO STA. NA

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	42
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

FOR THE DETOUR SIGNS ON THESE OVERHEAD SIGNS, COVER "West", WHEN RAMP A, THE NB I-94 EXIT RAMP TO RUSSELL RD IS CLOSED TO TRAFFIC

** ADD "RAMP CLOSED" SIGN, WHEN RAMP A, THE NB I-94 EXIT RAMP TO RUSSELL RD IS CLOSED TO TRAFFIC

5/11/09 10:51 CAD/D 60L76 Rosecrans11.dwg 60L76 Sheets 0160L76-shc-shc.dgn

SIGNING LEGEND

① ② ③ ④ ⑤ ⑥

⑦ * ⑧ * ⑨ * ⑩ *

* MOUNTED ABOVE TYPE III BARRICADE AS PER IDOT DISTRICT ONE STD TC-21

a b c d e f

h i j k l m n o

A B C D E F

G H I J K L

DETOUR SIGNING

DETOUR WEST Russell Rd

SEE SIGNING DETAILS ON SHEET 43A

II

M4-8a, (24x18) END DETOUR

M6-3, (24x12) ↑

M4-8, (24x12) DETOUR

M5-1L, (24x12) ↶

M3-2, (24x12) EAST

M6-1, (24x12) ↶

M3-4, (24x12) WEST

M5-1R, (24x12) ↷

M1-1, (24x24) INTERSTATE 94

M6-1, (24x12) ↷

W20-2 DETOUR AHEAD

SEE TC-08 RAMP CLOSED AHEAD

W20-3 ROAD CLOSED AHEAD

(10'x2') RAMP CLOSED

RAMP CLOSURE ADVANCE WARNING SIGN, SEE DISTRICT ONE STANDARD TC-08

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



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	PLOT SCALE = #SCALE#	DRAWN - RA	REVISED -		SCALE: NA	SHEET NO. 2 OF 3 SHEETS	STA. NA	TO STA. NA	CONTRACT NO. 60L76			
	PLOT DATE = 3/9/2012	CHECKED - RGR	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE - 03/09/2012	REVISED -									

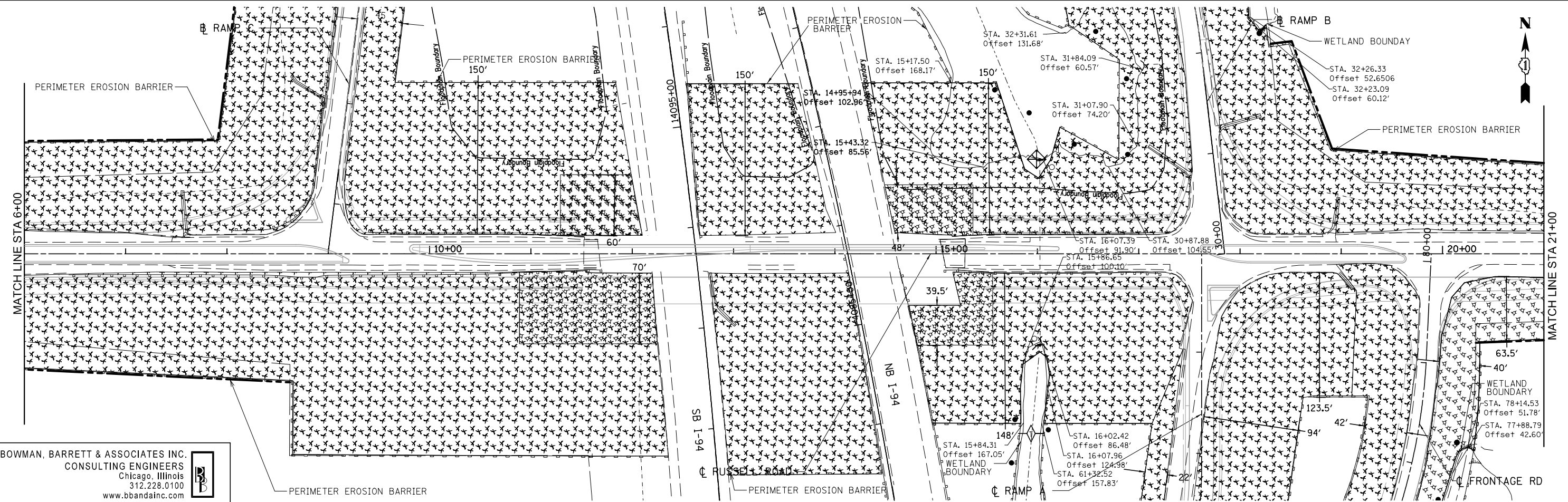
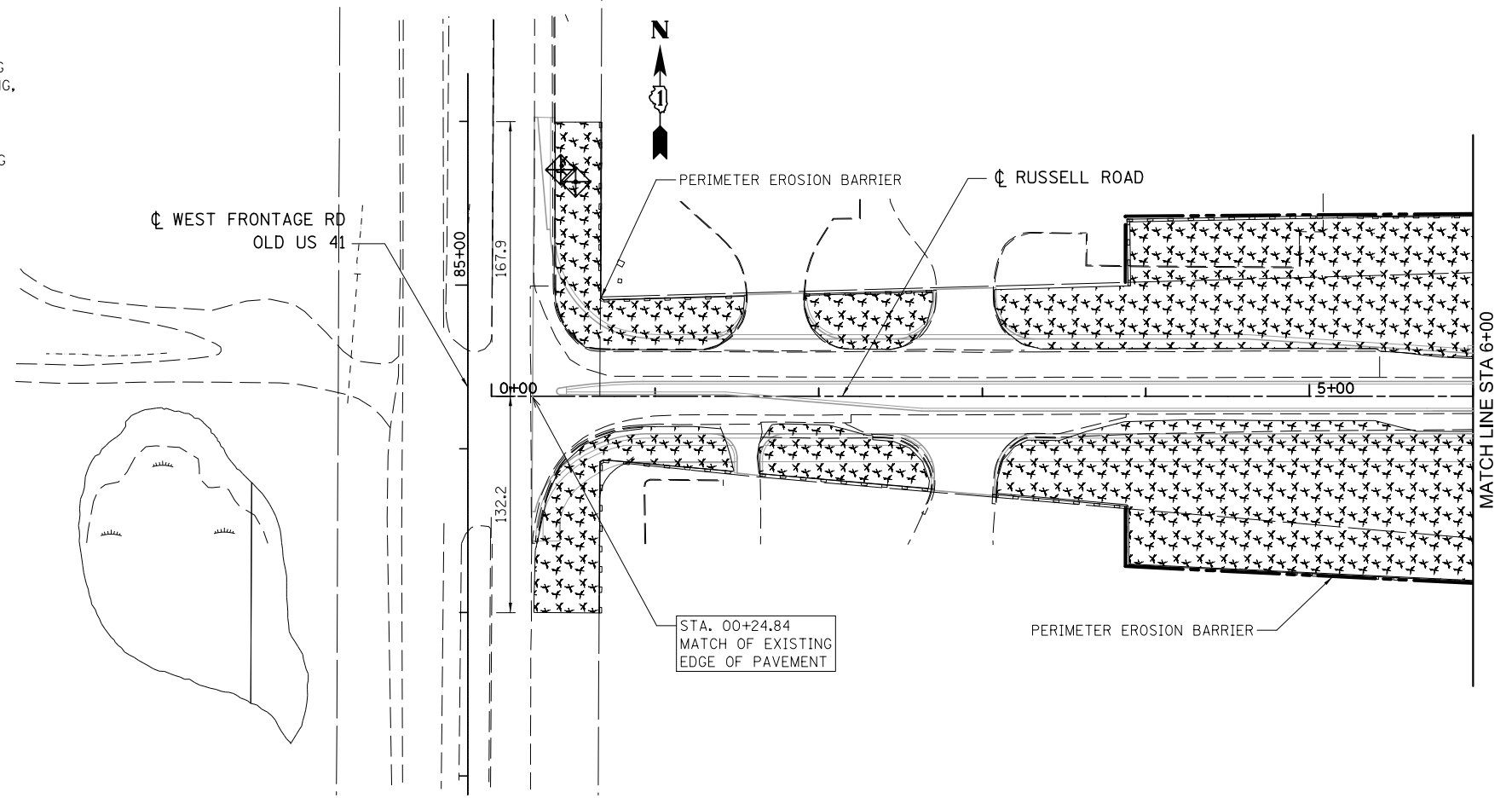
S:\1103\95\CA000\60L76_Russell11\Plan\60L76_Signs\11\60L76_Signs.dgn

GENERAL NOTES

1. ALL WETLANDS LOCATED WITHIN AND IMMEDIATELY ADJACENT TO THE CONSTRUCTION LIMITS SHALL HAVE THEIR BOUNDARIES CLEARLY DEMARCATED IN THE FIELD BY CONSTRUCTION FENCING. ADDITIONALLY, ALL WETLANDS SHOULD BE DEMARCATED BY "WETLAND, NO INTRUSION" SIGNAGE. CONTACT RICK WANNER (847-705-4172) FOR SIGNAGE. THE SIGNS SHALL BE RETURNED AT THE END OF THE JOB UNDAMAGED. CONSTRUCTION FENCING AND SIGNAGE SHALL BE INSTALLED AND MAINTAINED DURING CONSTRUCTION AND RUNOFF WILL BE DIVERTED OR FILTERED PRIOR TO DISCHARGE.
2. INLET AND PIPE PROTECTION SHALL BE COMPRISED OF DITCH CHECKS, TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKET. STRAW BALES AND SILT FENCE SHALL NOT BE USED AS INLET AND PIPE PROTECTION.
3. CULVERT/ STORM SEWER CLEANING PLAN: THE CONTRACTOR SHALL SUBMIT TO THE RE A PLAN TO CLEAN CULVERTS AND STORM SEWERS WITHOUT DISCHARGING SEDIEMENT FROM THE SITE. THE RE SHALL ACCEPT THE PLAN IN WRITING. THE PLAN BECOMES PART OF THE EROSION AND SEDIMENT CONTROL/ SWPPP FOR THIS PROJECT, AND IS SUBJECT TO THE NPDES DEFICIENCY DEDUCTION.
4. PORTABLE TOILETS SHALL BE PLACED AWAY FROM INLETS AND WATER COURSES.
5. SILT FENCE IS NOT REQUIRED WHERE THE PERIEMETER IS HIGHER THAN THE WORK ZONE, AND SILT FENCE SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW, OR ACROSS CONTOURS WITHOUT J-HOOKS (HIGHWAY STANDARD SHEET 280001). IN AREAS ON CONCENTRATED FLOW, TEMPORARY DITCH CHECKS AE A SUITABLE ALTERNATIVE PERIEMETER EROSION BARRIER IN PLACE OF THE SILT FENCE.

LEGEND

-  STORM DRAIN PROTECTION CONSISTING OF DITCH CHECKS, TEMPORARY SEEDING, AND EROSION CONTROL BLANKETS
-  PERIEMETER EROSION BARRIER
-  TEMPORARY EROSION CONTROL SEEDING
-  TEMPORARY DITCH CHECK
-  "NO INTRUSION" SIGN
-  TEMPORARY MULCH METHOD 4, 2"



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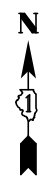
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



**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN FOR RUSSELL ROAD
 SCALE: 1"=50' SHEET NO. 1 OF 4 SHEETS STA. 0+00.00 TO STA. 21+00.00

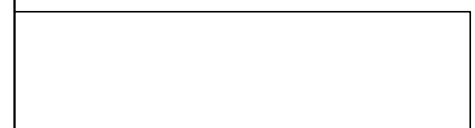
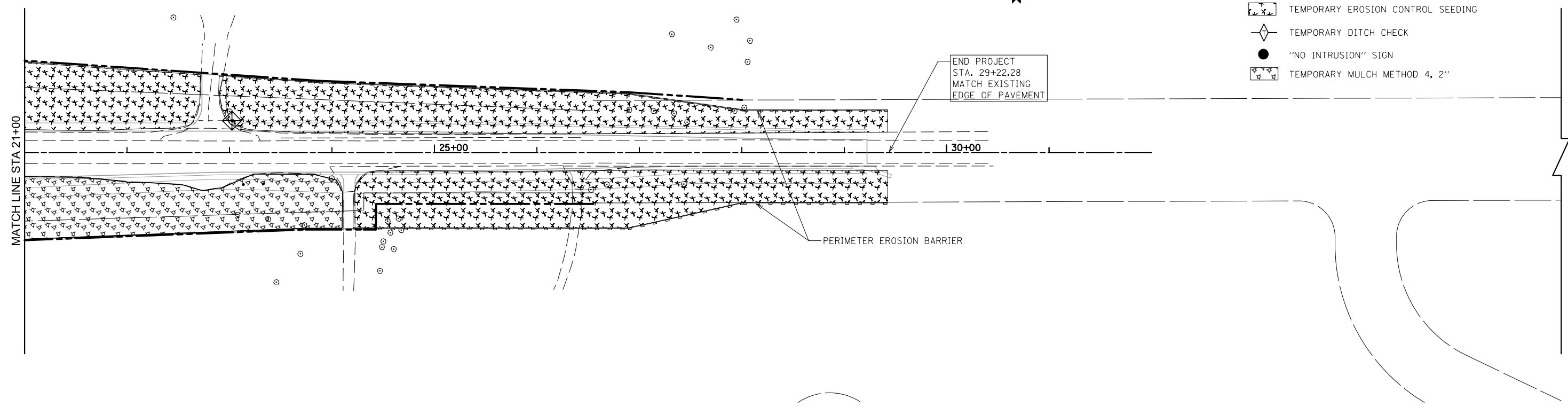
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	44
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

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- LEGEND
-  STORM DRAIN PROTECTION CONSISTING OF DITCH CHECKS, TEMPORARY SEEDING, AND EROSION CONTROL BLANKETS
 -  PERIMETER EROSION BARRIER
 -  TEMPORARY EROSION CONTROL SEEDING
 -  TEMPORARY DITCH CHECK
 -  "NO INTRUSION" SIGN
 -  TEMPORARY MULCH METHOD 4, 2"

END PROJECT
STA. 29+22.28
MATCH EXISTING
EDGE OF PAVEMENT



FILE NAME = #FILES#	USER NAME = default	DESIGNED - PTG	REVISED -
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		CHECKED - RGR	REVISED -
		DATE - 01/25/2012	REVISED -

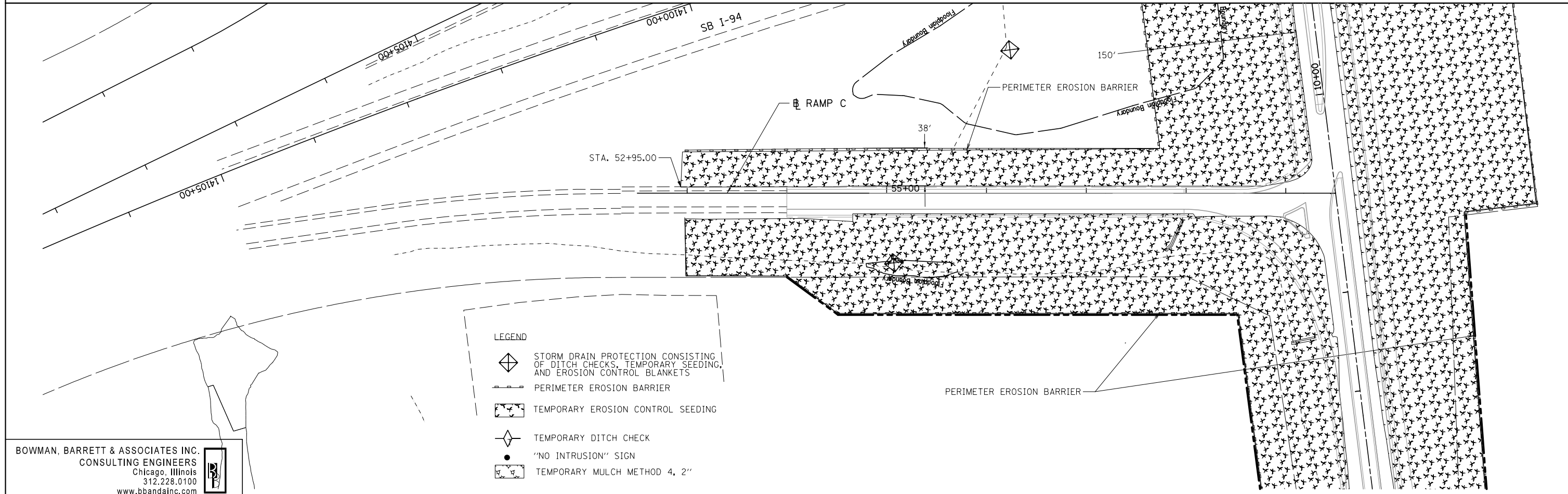
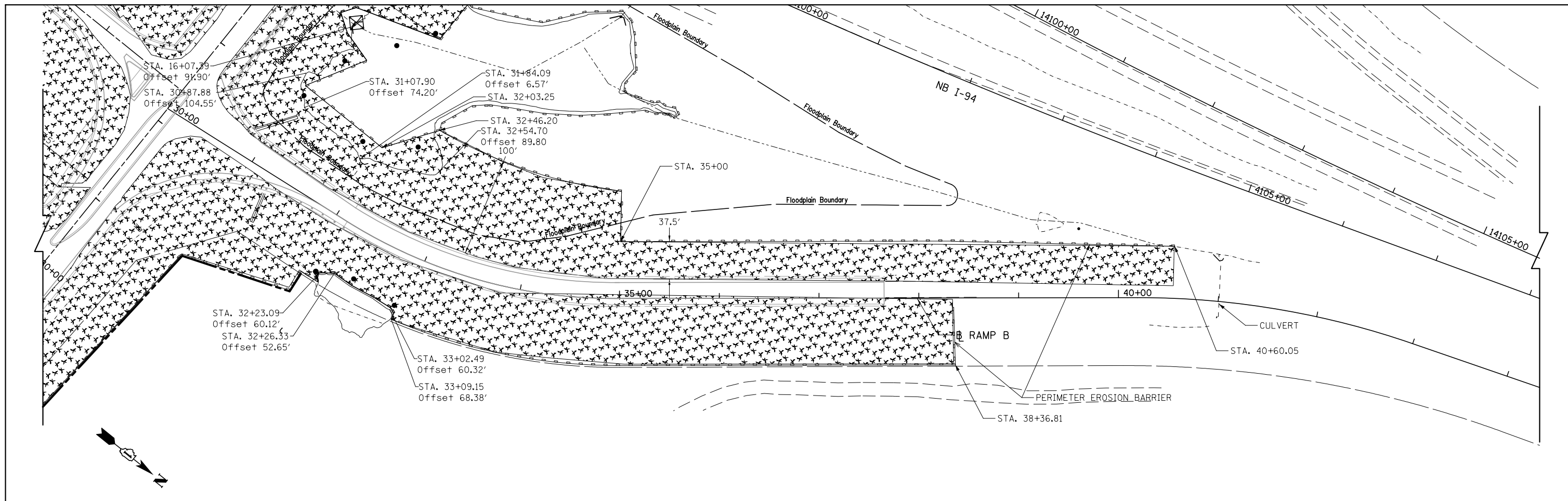
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**







EROSION CONTROL PLAN FOR RUSSELL ROAD

SCALE: 1"=50' SHEET NO. 2 OF 4 SHEETS STA. 21+00.00 TO STA. 29+49.82

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	45
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

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- LEGEND**
-  STORM DRAIN PROTECTION CONSISTING OF DITCH CHECKS, TEMPORARY SEEDING, AND EROSION CONTROL BLANKETS
 -  PERIMETER EROSION BARRIER
 -  TEMPORARY EROSION CONTROL SEEDING
 -  TEMPORARY DITCH CHECK
 -  "NO INTRUSION" SIGN
 -  TEMPORARY MULCH METHOD 4, 2"

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FILE NAME = *FILES*	USER NAME = default	DESIGNED - PTG	REVISED -
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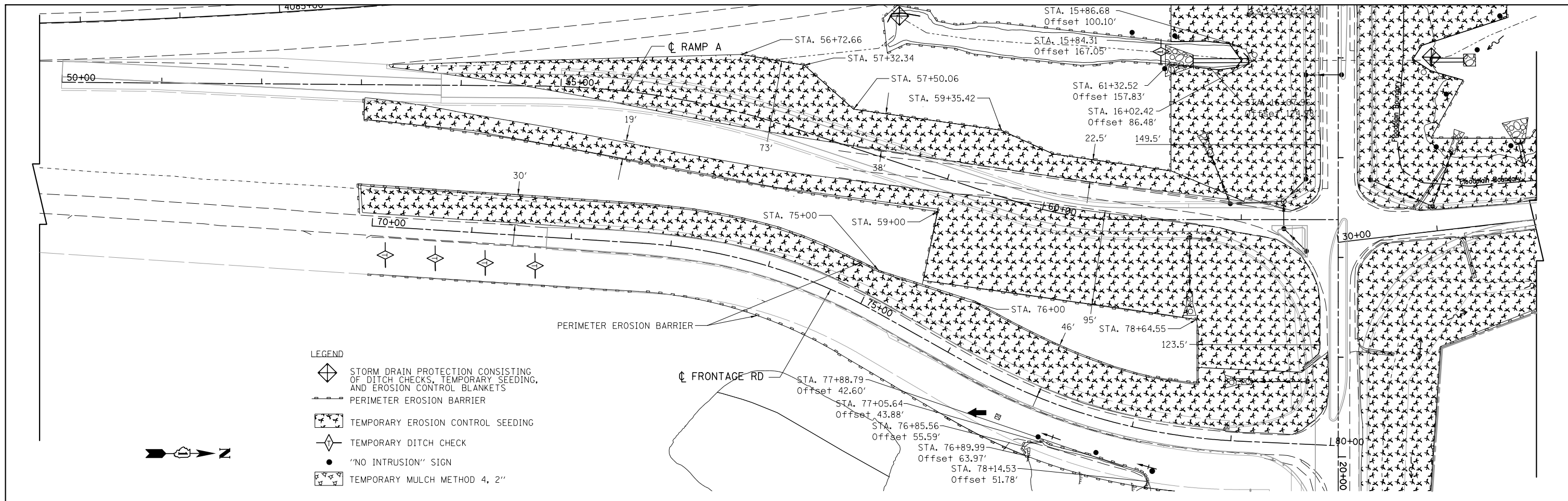
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**







**EROSION CONTROL PLAN FOR
 RUSSELL ROAD RAMP TO NB I-94
 AND SB I-94 RAMP TO RUSSELL ROAD**

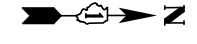
SCALE: 1"=50' SHEET NO. 3 OF 4 SHEETS STA. 21+00.00 TO STA. 29+49.82

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	46
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

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- LEGEND**
-  STORM DRAIN PROTECTION CONSISTING OF DITCH CHECKS, TEMPORARY SEEDING, AND EROSION CONTROL BLANKETS
 -  PERIMETER EROSION BARRIER
 -  TEMPORARY EROSION CONTROL SEEDING
 -  TEMPORARY DITCH CHECK
 -  "NO INTRUSION" SIGN
 -  TEMPORARY MULCH METHOD 4, 2"



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		CHECKED - RGR	REVISED -
		DATE - 01/25/2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN FOR
 NB I-94 RAMP TO RUSSELL ROAD**

SCALE: 1"=50' SHEET NO. 4 OF 4 SHEETS STA. 0+00.00 TO STA. 6+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	47
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

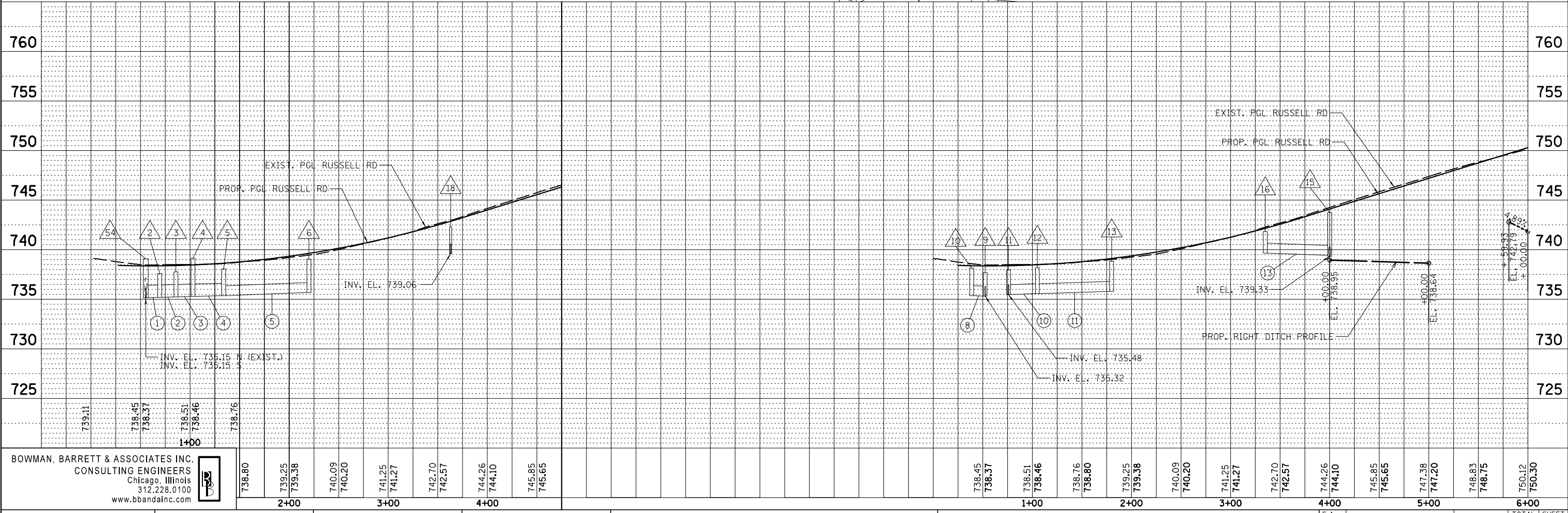
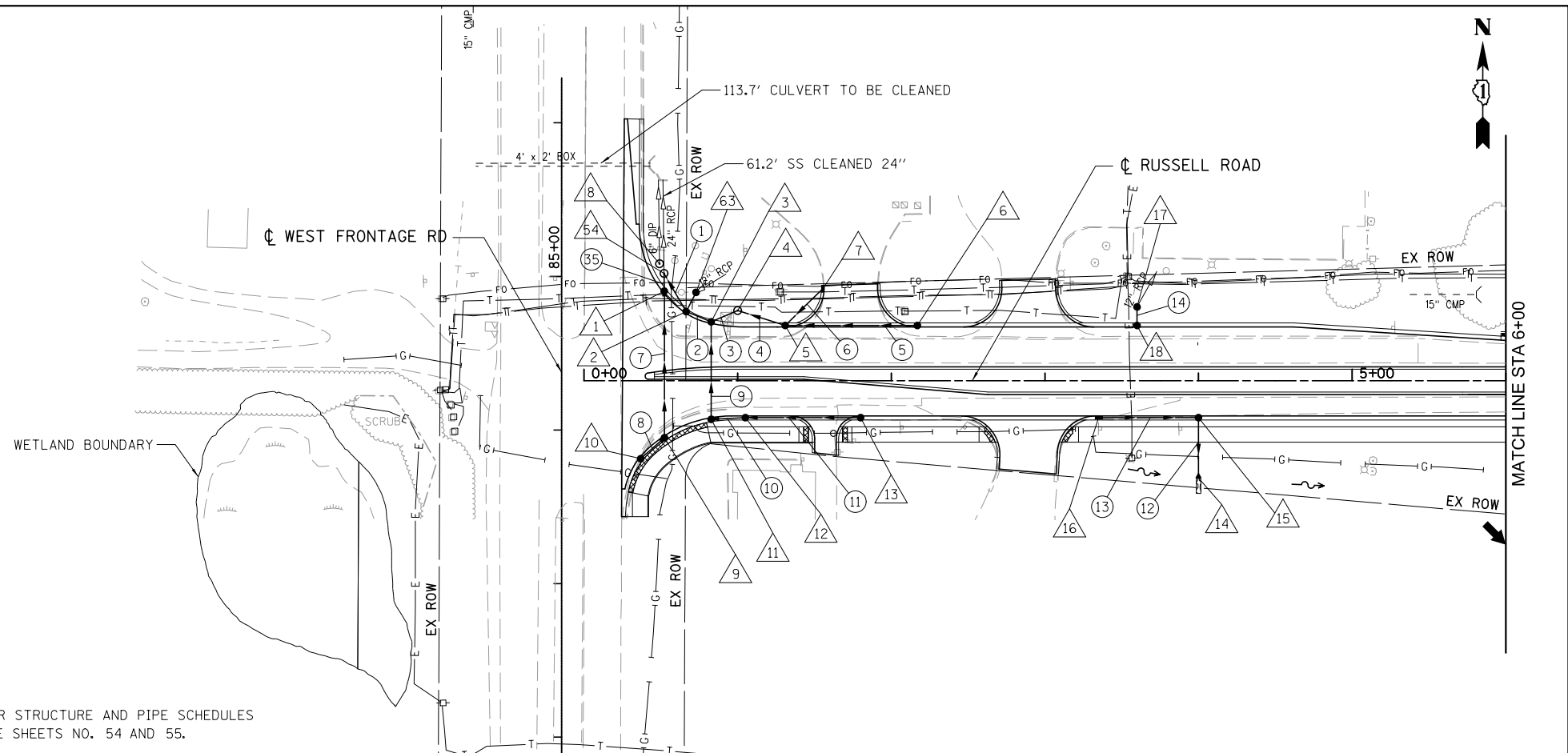
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	PLOTTED	
	ALIGNED	
	CHECKED	
	DESIGNED	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	BY	
	NO.	

- LEGEND:**
- PROPOSED INLET
 - PROPOSED MANHOLE
 - PROPOSED CATCH BASIN
 - ∩ PROPOSED HEADWALL
 - ▽ PROPOSED END SECTION
 - ~ PROPOSED DITCH
 - PROPOSED STORM SEWER
 - △ PROPOSED STRUCTURE NO.
 - ⊕ PROPOSED STORM SEWER NO.
 - ▨ PROPOSED STONE RIPRAP
 - ▩ PROPOSED TURF REINFORCEMENT MAT
 - ↑ PROPOSED SWALE
 - ➔ PROPOSED SHEET FLOW
 - EXISTING INLET
 - ▽ EXISTING END SECTION
 - EXISTING STORM SEWER
 - EXISTING PIPE UNDERDRAIN / FARM TILE
 - EXISTING ABANDONED FARM TILE (SEE GENERAL NOTES)
 - ~ EXISTING DITCH
 - ∩ EXISTING HEADWALL
 - ↑ EXISTING SWALE
 - ➔ EXISTING SHEET FLOW

NOTES:
 1. FOR STRUCTURE AND PIPE SCHEDULES SEE SHEETS NO. 54 AND 55.



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FILE NAME = *FILES*	USER NAME = default	DESIGNED - JAM	REVISED -
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		DATE - 03/09/2012	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

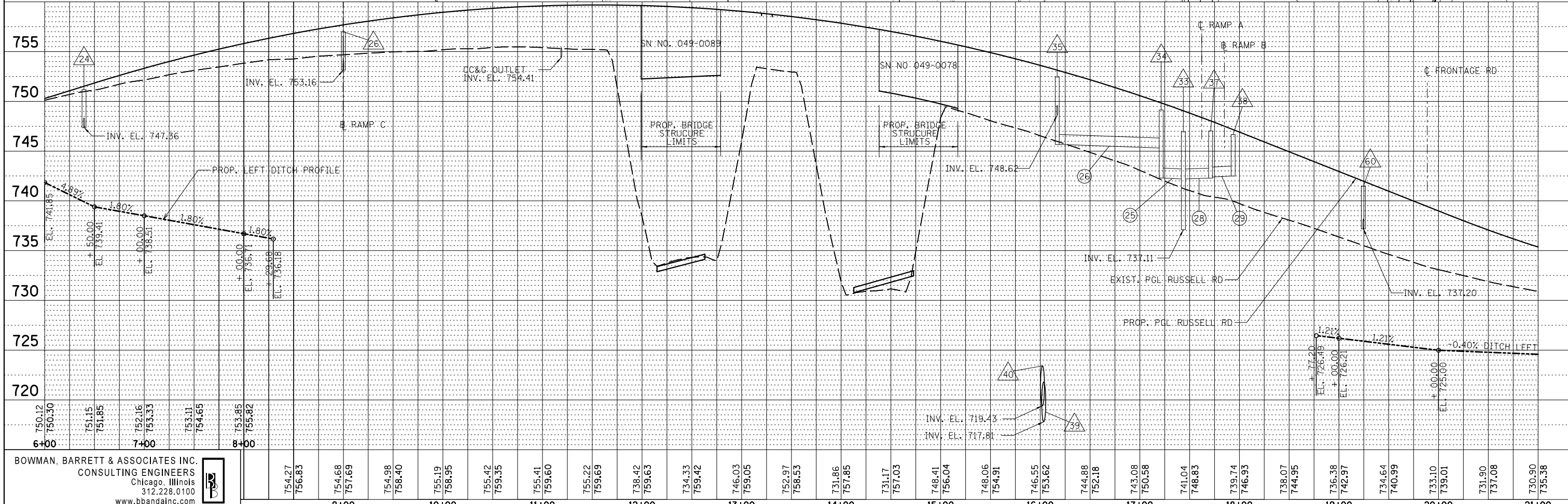
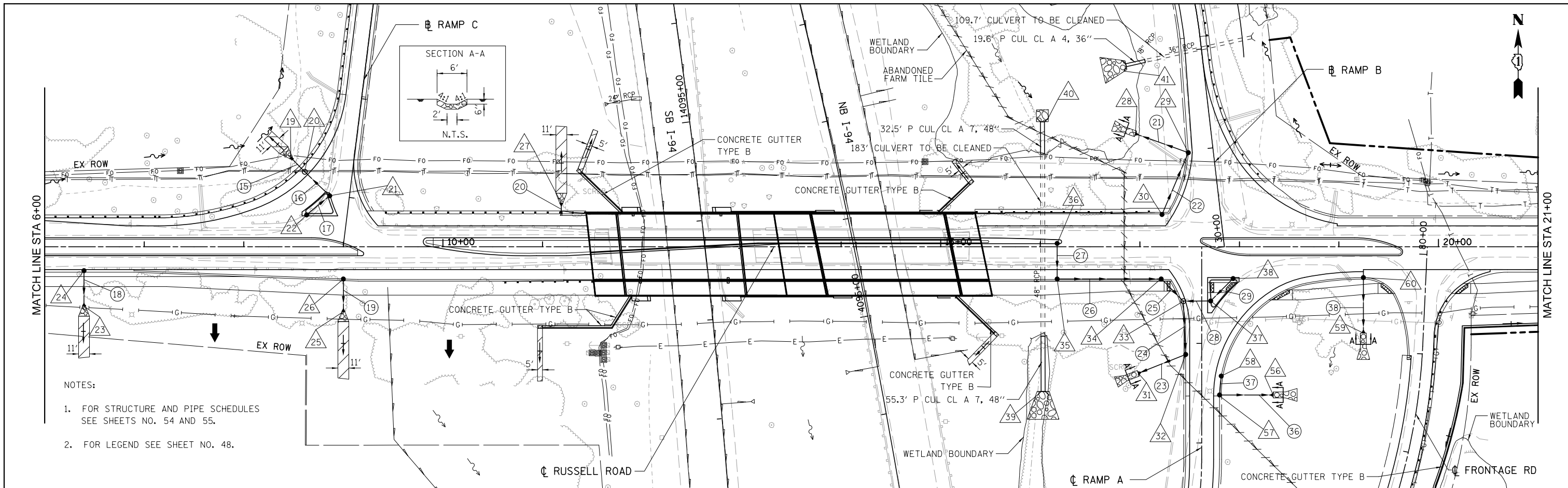
**PROPOSED DRAINAGE PLAN AND PROFILE
 FOR RUSSELL ROAD**
 SCALE: 1"=50' SHEET NO. 1 OF 3 SHEETS STA. 0+00.00 TO STA. 6+00.00

F.A. RTF.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	48
		CONTRACT NO.	60L76	
ILLINOIS FED. AID PROJECT				

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PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
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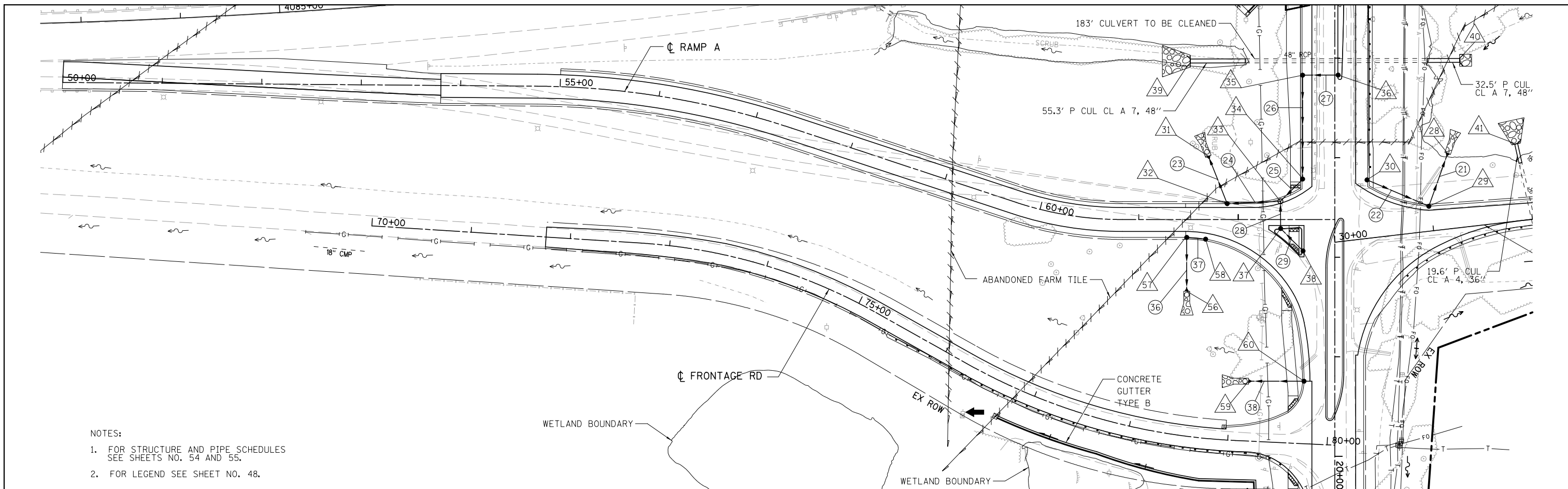
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6+00		7+00		8+00		9+00		10+00		11+00		12+00		13+00		14+00		15+00		16+00		17+00		18+00		19+00		20+00		21+00																															

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		DRAWN - JAM	REVISED -		FOR RUSSELL ROAD			
		CHECKED - RGR	REVISED -		SCALE: 1"=50'	SHEET NO. 2 OF 3 SHEETS		STA. 6+00.00 TO STA. 21+00.00
		DATE - 03/09/2012	REVISED -					

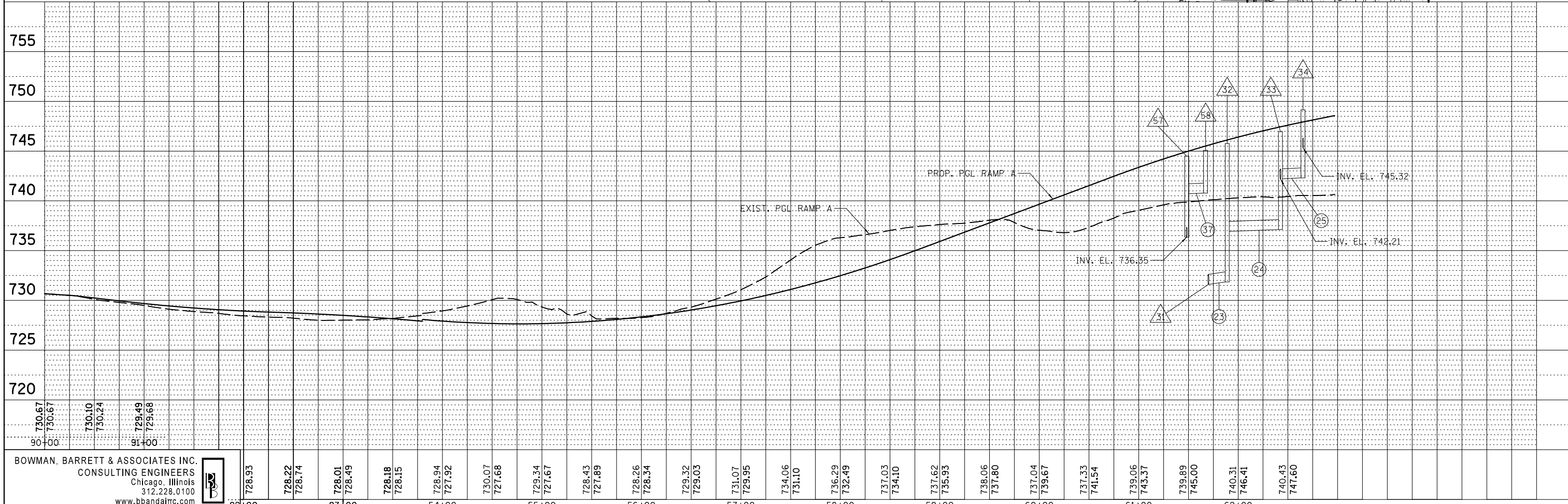
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	NOTE BOOK	
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	CHECKED	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	NO.	
	STRUCTURE	
	NOTATION	



- NOTES:
- FOR STRUCTURE AND PIPE SCHEDULES SEE SHEETS NO. 54 AND 55.
 - FOR LEGEND SEE SHEET NO. 48.



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		DATE - 03/09/2012	REVISED -

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728.74	728.49	728.15	727.92	727.68	729.34	727.89	728.34	729.05	729.95	731.10	732.49	734.10	735.93	737.80	739.67	741.54	743.37	745.00	746.41

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

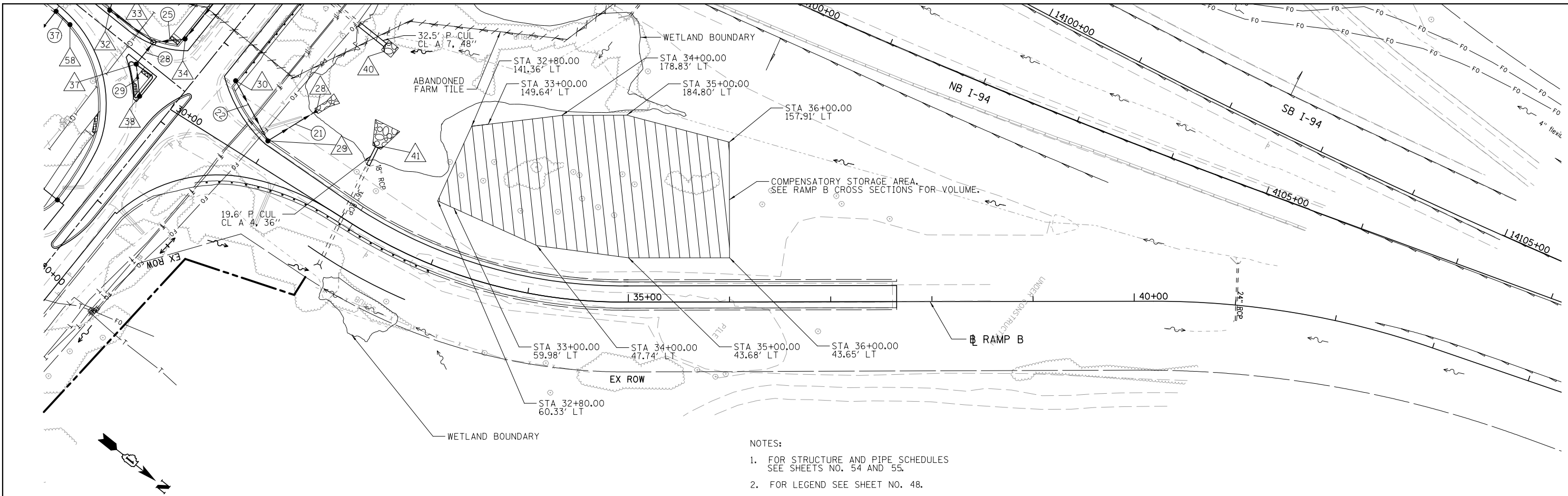
PROPOSED DRAINAGE PLAN AND PROFILE
FOR RAMP A

SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. 0+00.00 TO STA. 6+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	51
CONTRACT NO. 60L76			ILLINOIS FED. AID PROJECT	

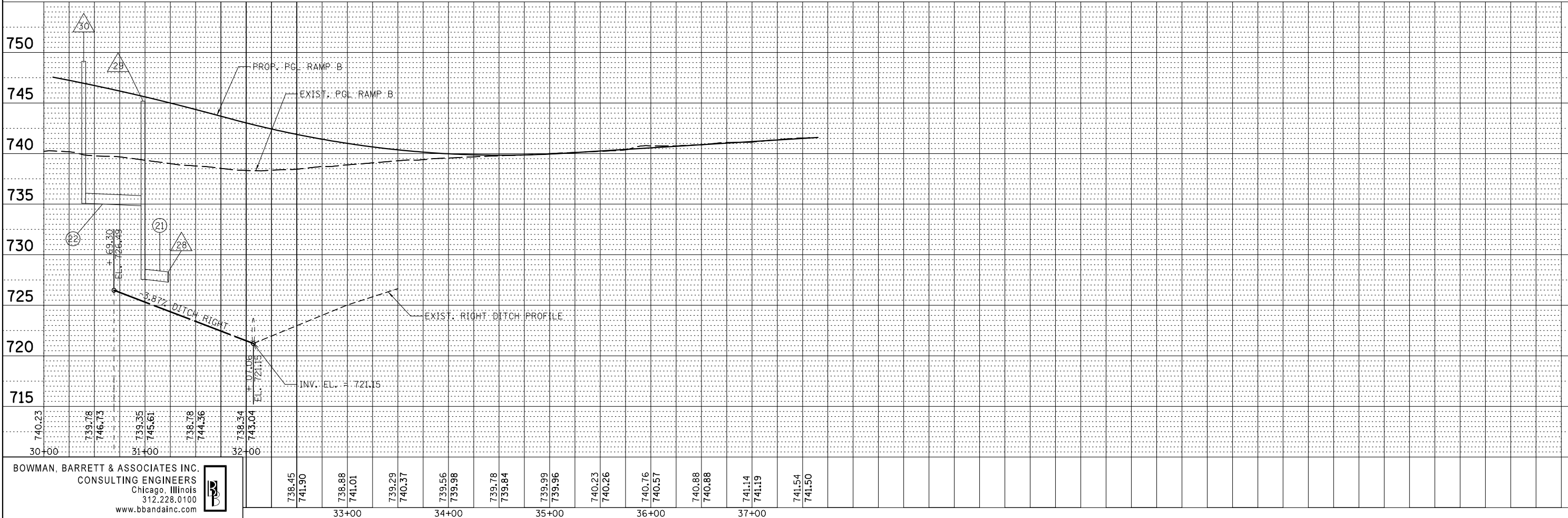
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PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	NO.	



- NOTES:
1. FOR STRUCTURE AND PIPE SCHEDULES SEE SHEETS NO. 54 AND 55.
 2. FOR LEGEND SEE SHEET NO. 48.

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	CHPND	
	NO.	



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738.45	741.90	738.88	741.01	739.29	740.37	739.56	739.98	739.78	739.84	739.99	739.96	740.23	740.26	740.16	740.57	740.88	740.88	741.14	741.19	741.54	741.50	

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DRAWN - JAM
CHECKED - RGR
DATE - 03/09/2012

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED DRAINAGE PLAN AND PROFILE
FOR RAMP B

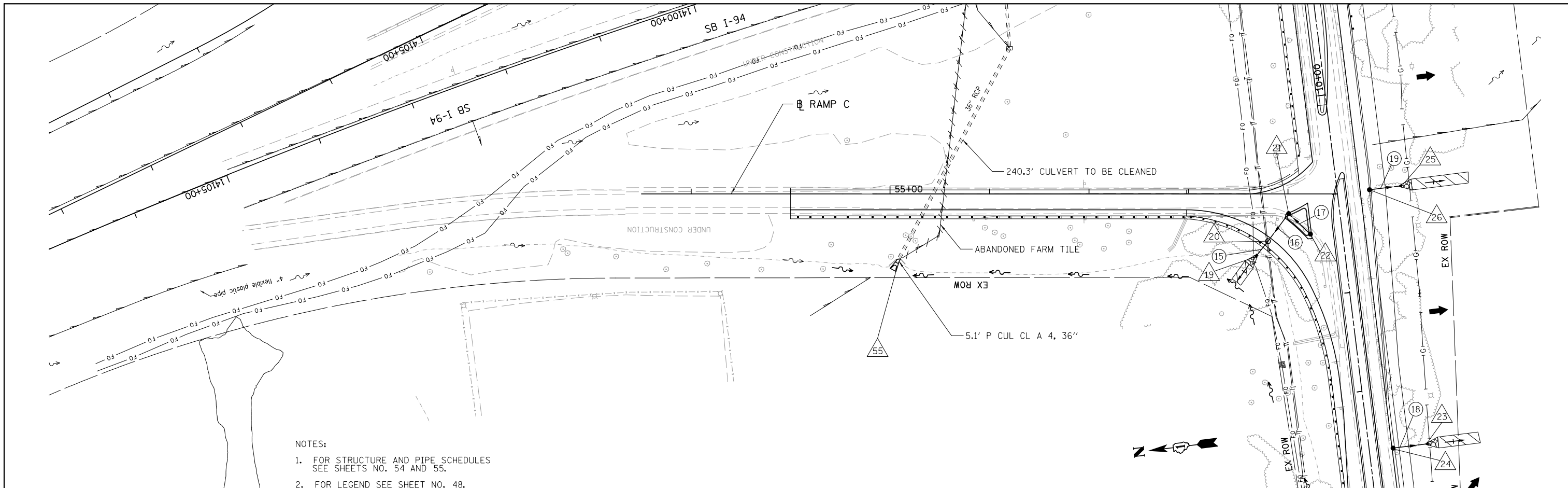
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	52
CONTRACT NO. 60L76			ILLINOIS FED. AID PROJECT	

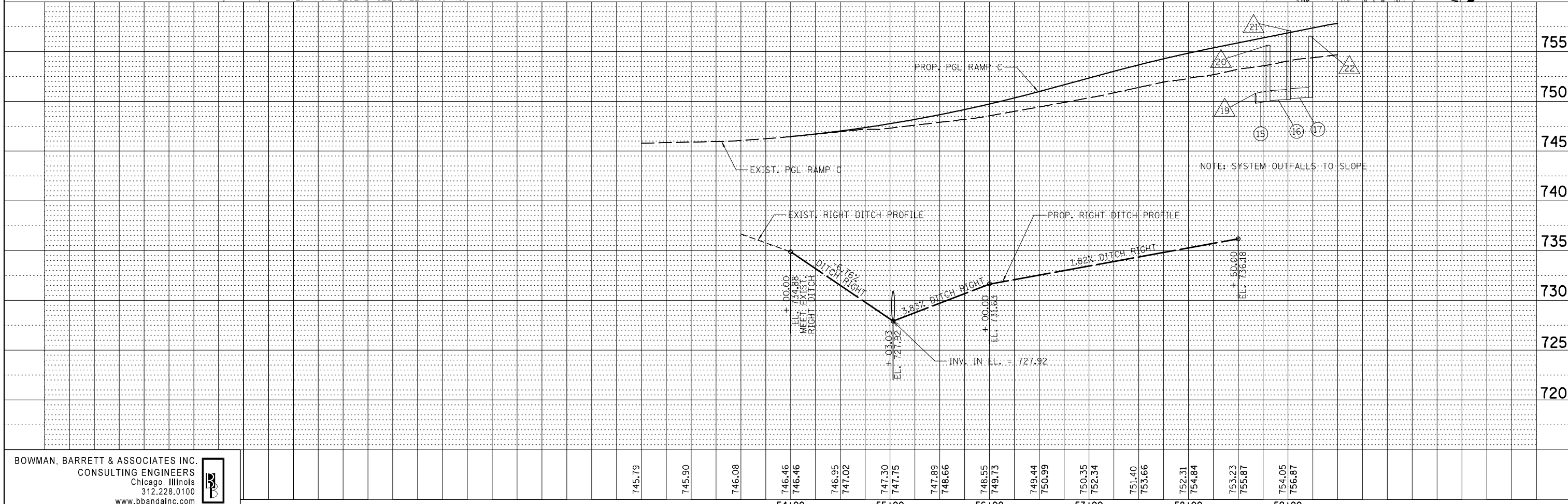
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PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
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	FILED	
NOTE BOOK NO.	CARD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	NOTATION CHFD	



- NOTES:
1. FOR STRUCTURE AND PIPE SCHEDULES SEE SHEETS NO. 54 AND 55.
 2. FOR LEGEND SEE SHEET NO. 48.



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FILE NAME = #FILES*	USER NAME = default	DESIGNED - JAM	REVISED -
		DRAWN - JAM	REVISED -
		CHECKED - RGR	REVISED -
		DATE - 03/09/2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED DRAINAGE PLAN AND PROFILE
FOR RAMP C**

SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. 54+00.00 TO STA. 59+49.87

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	53
CONTRACT NO. 60L76			ILLINOIS FED. AID PROJECT	

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SCHEDULE OF DRAINAGE STRUCTURES

STRUCTURE NUMBER	LOCATION	STATION	OFFSET	RIM ELEVATION	CB TA 4 DIA T1F OL	CB TA 4 DIA T2OF&G	CB TA 4 DIA T8F&G	INLET TA T2OF&G	MAN TA 4 DIA T8F&G	MAN TA 4 DIA T1F CL	MAN TA 5 DIA T1F CL	FES 12	FES 15	FES 36	CIP RC END SEC 36	CIP RC END SEC 48	INVERT ELEVATIONS	
1	RUSSELL RD	0+52.36	58.34' LT	737.31	1												735.18N, 735.18S,	
2	RUSSELL RD	0+66.46	45.05' LT	737.60		1											735.2NW, 735.2SE,	
3	RUSSELL RD	0+82.78	38.32' LT	737.77		1											735.24NW, 735.24NE, 735.24S,	
4	RUSSELL RD	1+00.00	45.67' LT	739.13					1								735.29W, 735.29SE,	
5	RUSSELL RD	1+31.00	36.00' LT	738.06		1											735.38NW, 735.63NE, 735.38E,	
6	RUSSELL RD	2+17.00	36.00' LT	739.05		1											735.68W,	
7	RUSSELL RD	1+55.41	59.92' LT	739.97		1											735.94SW,	
8	RUSSELL RD	0+49.12	76.18' LT	737.62						1							736.05N(EXIST.),	
9	RUSSELL RD	0+52.36	37.09' RT	737.54	1												735.32N, 735.32SW,	
10	RUSSELL RD	0+36.94	50.79' RT	738.16		1											735.37NE,	
11	RUSSELL RD	0+82.78	25.10' RT	738.03		1											735.48N, 735.48E,	
12	RUSSELL RD	1+05.00	24.00' RT	738.15		1											735.55W, 735.55E,	
13	RUSSELL RD	1+80.00	24.00' RT	738.78		1											735.81W,	
14	RUSSELL RD	4+00.00	63.40' RT	-								1					738.95S,	
15	RUSSELL RD	4+00.00	24.00' RT	743.76		1											739.33S, 739.43W,	
16	RUSSELL RD	3+35.00	24.00' RT	741.82				1									739.65E,	
17	RUSSELL RD	3+60.00	48.01' LT	743.40		1											739.03NE(EXIST.), 739.03S,	
18	RUSSELL RD	3+60.00	36.00' LT	742.29				1									739.06N,	
19	RAMP C	58+67.49	63.13' RT	-								1					749.8NW,	
20	RAMP C	58+79.93	47.48' RT	755.63						1							749.98NW, 750.08SE,	
21	RAMP C	59+00.73	19.70' RT	756.95		1											750.19NW, 750.29SW,	
22	RUSSELL RD	8+63.10	32.00' LT	756.57		1											750.39NE,	
23	RUSSELL RD	6+39.50	59.80' RT	-								1					747.02S,	
24	RUSSELL RD	6+39.50	24.00' RT	751.19		1											747.36S,	
25	RUSSELL RD	9+00.00	65.12' RT	-								1					752.85S,	
26	RUSSELL RD	9+00.00	32.42' RT	756.99		1											753.16S,	
27	RUSSELL RD	11+18.91	43.72' LT	-								1					754.33N,	
28	RAMP B	31+22.99	75.54' LT	-								1					727.29NW,	
29	RAMP B	30+98.07	25.00' LT	745.23		1											727.56NW, 734.84SW,	
30	RUSSELL RD	17+22.29	32.42' LT	749.12		1											735.08NE,	
31	RAMP A	61+70.08	63.57' LT	-								1					731.6SW,	
32	RAMP A	61+88.99	16.00' LT	745.76		1											731.85SW, 736.93N,	
33	RAMP A	62+42.50	18.37' LT	746.95						1							737.11S, 742.21NW, 742.21E,	
34	RUSSELL RD	17+21.46	32.42' RT	749.15		1											742.31SE, 745.32W,	
35	RUSSELL RD	16+17.02	32.42' RT	752.45						1							745.69E, 748.62N,	
36	RUSSELL RD	16+16.94	3.00' LT	753.11		1											748.74S,	
37	RAMP A	62+42.75	9.04' RT	747.03		1											742.3W, 742.4NE,	
38	RUSSELL RD	17+93.71	32.00' RT	746.67		1											742.5SW,	
39	RUSSELL RD	16+03.44	147.02' RT	-											1		717.81N,	
40	RUSSELL RD	16+02.20	125.28' LT	-											1		719.43S,	
41	RAMP B	31+92.61	77.23' LT	-											1		720.71SW,	
42																	NOT USED	
43	RUSSELL RD	22+47.26	52.97' LT	-									1				723.99W,	
44	RUSSELL RD	23+29.16	52.82' LT	-									1				723.72E,	
45	RUSSELL RD	23+00.00	64.52' RT	-								1					724.02S,	
46	RUSSELL RD	23+00.00	20.00' RT	730.57		1											724.45S,	
47	RUSSELL RD	23+80.00	60.38' RT	-								1					724.32S,	
48	RUSSELL RD	23+80.00	20.00' RT	729.76		1											724.74S, 725.55E,	
49	RUSSELL RD	24+44.52	20.00' RT	729.57		1											725.74W,	
50	RUSSELL RD	28+10.00	41.00' RT	-								1					723.98S,	
51	RUSSELL RD	28+10.00	14.20' RT	726.41				1									724.24S,	
52																	NOT USED	
53																	NOT USED	
54	RUSSELL RD	0+52.36	69.84' LT	739.09							1						735.15N(EXIST.), 735.15S, 735.15SE,	
55	RAMP C	55+03.03	76.31' RT	-										1			727.92SE,	
56	RAMP A	61+48.30	71.93' RT	-								1					733.23E,	
57	RAMP A	61+48.30	18.01' RT	744.80		1											736.35E, 740.72N,	
58	RAMP A	61+67.24	19.70' RT	745.28		1											740.78S,	
59	RUSSELL RD	19+24.52	86.68' RT	-								1					735.77S,	
60	RUSSELL RD	19+24.52	31.00' RT	741.47		1											737.2S,	
61	RUSSELL RD	23+99.55	66.17' RT	-									1				724.12W,	
62	RUSSELL RD	24+30.55	66.17' RT	-									1				724.3E,	
63	RUSSELL RD	0+72.85	57.52' LT	739.35			1										735.32SW, 736.55NE(EXIST.),	
TOTALS					3	27	1	3	1	4	1	12	4	1	1	2		

NOTES:

- STATION, OFFSET AND RIM ELEVATION ARE TO THE CENTER OF THE CASTING.
- THE CONTRACTOR SHALL FIELD VERIFY EXISTING INVERT CONNECTIONS, AND INFORM THE ENGINEER OF ANY DISCREPANCIES.

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com



FILE NAME = #FILES#

USER NAME = default

DESIGNED - JAM

REVISED -

PLOT SCALE = #SCALE#

DRAWN - JAM

REVISED -

PLOT DATE = 3/7/2012

CHECKED - RGR

REVISED -

DATE - 03/09/2012

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCHEDULES

SCALE:

SHEET NO. 1 OF 2 SHEETS

STA.

TO STA.

F.A. RTE.

SECTION

COUNTY

TOTAL SHEETS

SHEET NO.

94

49-1(HB & HB-1)R

LAKE

225

54

CONTRACT NO. 60L76

ILLINOIS FED. AID PROJECT

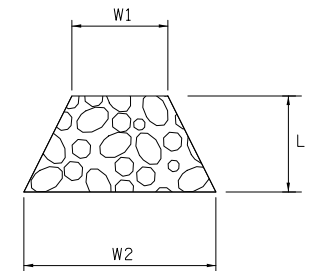
S:\1101\95-CADD\60L76 Russel1 Rdwy\60L76 Sheets\0160L76 sht-schedule.dwg

SCHEDULE OF STORM SEWERS

PIPE NO.	FROM STR. NO.	TO STR. NO.	LENGTH (FEET)	DIAMETER (INCHES)	SLOPE (%)	SS CL A 1, 12	SS CL A 1, 15	SS CL A 2, 12	SS CL A 3, 12	SS CL A 4, 12	TRENCH BACKFILL (CU. YD.)
1	2	54	24.2	15	0.28%		24.2				0.0
2	3	2	13.7	15	0.28%		13.7				0.0
3	4	3	14.7	15	0.28%		14.7				0.0
4	5	4	28.5	15	0.28%		28.5				0.0
5	6	5	82.0	12	0.37%	82.0					0.0
6	7	5	31.2	12	1.00%	31.2					0.0
7	9	1	95.0	12	0.15%	95.0					0.0
8	10	9	13.8	12	0.37%	13.8					0.0
9	11	3	60.7	12	0.37%	60.7					0.0
10	12	11	18.2	12	0.37%	18.2					0.0
11	13	12	71.0	12	0.37%	71.0					0.0
12	15	14	31.3	12	1.00%			31.3			5.6
13	16	15	61.0	12	0.37%	61.0					1.1
14	18	17	8.0	12	0.37%	8.0					0.0
15	20	19	11.9	12	1.00%			11.9			1.6
16	21	20	30.7	12	0.37%			30.7			9.4
17	22	21	26.1	12	0.37%			26.1			8.6
18	24	23	27.7	12	1.00%	27.7					4.5
19	26	25	24.6	12	1.00%	24.6					2.3
20	C&G out	27	2.0	12	1.00%	2.0					0.0
21	29	28	48.3	12	0.50%				48.3		0.0
22	30	29	63.5	12	0.37%			63.5			9.5
23	32	31	43.1	12	0.50%				43.1		0.0
24	33	32	49.6	12	0.37%			49.6			31.5
25	34	33	27.8	12	0.37%			27.8			21.1
26	35	34	100.4	12	0.37%	100.4					23.0
27	36	35	31.4	12	0.37%	31.4					3.2
28	37	33	23.4	12	0.37%			23.4			15.2
29	38	37	27.8	12	0.37%			27.8			17.4
30	46	45	36.5	12	1.00%			36.5			9.2
31	48	47	36.1	12	1.00%			36.1			7.7
32	49	48	60.5	12	0.37%	60.5					5.9
33	51	50	19.7	12	1.00%	19.7					1.3
34			NOT USED								
35	1	54	7.0	12	0.37%	7.0					0.0
36	57	56	45.8	12	6.00%	45.8					0.0
37	58	57	15.0	12	0.37%	15.0					1.3
38	60	59	47.6	12	6.00%			47.6			12.1
39			NOT USED								
40	63	2	10.0	12	1.00%	10.0					0.0
TOTALS						785.3	81.0	412.3	43.1	48.3	191.6

SCHEDULE OF STONE RIPRAP

ADJACENT STR. NO.	LOCATION	STATION	OFFSET	W1 (FT)	W2 (FT)	L (FT)	AREA (SQ YD)	NOTES
14	RUSSELL RD	4+00.00	63.40' RT	3.0	3.0	10.0	3.33	
19	RAMP C	58+67.49	63.13' RT	3.0	11.0	10.0	7.78	
23	RUSSELL RD	6+39.50	59.80' RT	3.0	11.0	10.0	7.78	
25	RUSSELL RD	9+00.00	65.12' RT	3.0	11.0	10.0	7.78	
27	RUSSELL RD	11+18.91	43.72' LT	3.0	11.0	10.0	7.78	
28	RAMP B	31+22.99	75.54' LT	6.0	6.0	13.6	9.08	AT SLOPE
				6.0	11.0	10.0	9.44	AT TOE OF SLOPE
31	RAMP A	61+70.08	63.57' LT	6.0	6.0	13.8	9.23	AT SLOPE
				6.0	11.0	10.0	9.44	AT TOE OF SLOPE
39	RUSSELL RD	16+03.44	147.02' RT	12.0	32.0	28.0	68.44	
40	RUSSELL RD	16+02.20	125.28' LT	12.0	12.0	12.0	16.00	
41	RAMP B	31+92.61	77.23' LT	9.0	27.0	24.0	48.00	
45	RUSSELL RD	23+00.00	64.52' RT	3.0	3.0	10.0	3.33	
47	RUSSELL RD	23+80.00	60.38' RT	3.0	3.0	11.5	3.84	
50	RUSSELL RD	28+10.00	41.00' RT	3.0	3.0	6.8	2.27	
56	RAMP A	61+48.30	71.93' RT	6.0	6.0	12.0	8.02	AT SLOPE
				6.0	13.0	12.0	12.67	AT TOE OF SLOPE
59	RUSSELL RD	19+24.52	64.15' RT	6.0	6.0	12.0	8.02	
				6.0	13.0	12.0	12.67	
	FRONTAGE RD	78+97.48	12.96' LT	4.0	4.0	4.0	1.78	
RET. WALL	RUSSELL RD	21+34.96	76.38' RT	5.0	5.0	5.0	2.78	
RET. WALL	FRONTAGE RD	76+75.00	34.09' RT	5.0	5.0	5.0	2.78	
WING WALL	RUSSELL RD	11+00.00	80.43' RT	3.0	3.0	5.0	1.67	
WING WALL	RUSSELL RD	11+38.69	73.98' LT	3.0	3.0	5.0	1.67	
WING WALL	RUSSELL RD	15+28.75	63.23' LT	3.0	3.0	5.0	1.67	
WING WALL	RUSSELL RD	15+53.75	85.92' RT	3.0	3.0	5.0	1.67	
TOTAL							268.90	



STONE RIPRAP APRON

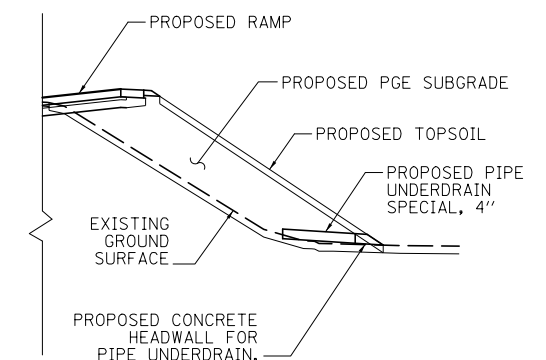
SCHEDULE OF PIPE UNDERDRAIN OUTFALLS

LOCATION	STATION**	OFFSET	PIPE UND. SPECIAL 4" (FT)	CONC. HW FOR PIPE UND. (EA)	TIE INTO STR. NO.
RUSSELL RD	0+52.00	LT	0	0	1
RUSSELL RD	0+52.00	RT	0	0	9
RUSSELL RD	0+66.00	LT	0	0	2
RUSSELL RD	0+83.00	RT	0	0	11
RUSSELL RD	3+60.00	LT	0	0	17
RUSSELL RD	3+35.00	RT	0	0	16
RUSSELL RD	6+25.00	LT	20	1	-
RUSSELL RD	6+39.50	RT	0	0	24
RUSSELL RD	9+50.00	LT	25	1	-
RUSSELL RD	9+00.00	RT	0	0	26
RUSSELL RD	17+22.00	LT	0	0	30
RUSSELL RD	17+21.00	RT	0	0	34
RUSSELL RD	19+00.00	LT	20	1	-
RUSSELL RD	19+00.00	RT	35	1	-
RUSSELL RD	22+00.00	LT	25	1	-
RUSSELL RD	22+00.00	RT	40	1	-
RUSSELL RD	24+44.52	LT	25	1	-
RUSSELL RD	24+44.52	RT	0	0	49
RUSSELL RD	27+00.00	LT	25	1	-
RUSSELL RD	27+50.00	RT	35	1	-
RUSSELL RD	29+10.00	LT	25	1	-
RUSSELL RD	29+10.00	RT	35	1	-
RAMP A	54+00.00	RT	55	1	-
RAMP A	57+00.00	RT	70	1	-
RAMP A	60+00.00	LT	35	1	-
RAMP A	61+89.00	LT	0	0	32
RAMP A	61+48.00	RT	0	0	57
RAMP B	34+00.00	LT	20	1	-
RAMP B	37+00.00	LT	25	1	-
RAMP C	54+00.00	RT	25	1	-
RAMP C	56+50.00	RT	20	1	-
RAMP C	58+50.00	LT	20	1	-
RAMP C	58+50.00	RT	25	1	-
SUB-TOTAL			605	20	

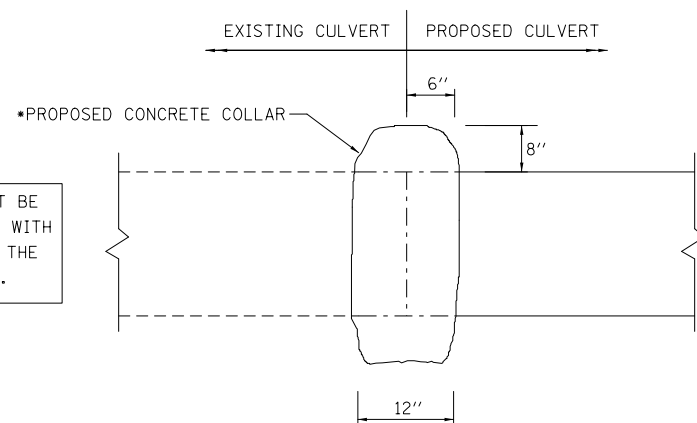
PIPE UNDERDRAIN SCHEDULE FOR RAMP PGE SUBGRADE DRAINAGE

LOCATION	STATION	OFFSET	PIPE UND. SPECIAL 4" (FT)	CONC. HW FOR PIPE UND. (EA)
RAMP A	60+00.00	RT	35	1
RAMP A	62+00.00	LT	25	1
RAMP B	32+00.00	RT	15	1
RAMP B	32+00.00	LT	25	1
SUB-TOTAL			100	4

TOTAL	PIPE UND. SPECIAL 4" (FT)	CONC. HW FOR PIPE UND. (EA)
TOTAL	705	24



RAMP PGE SUBGRADE DRAINAGE DETAIL N.T.S.



CULVERT EXTENSION CONNECTION DETAIL N.T.S.

* THE PROPOSED CONCRETE COLLAR WILL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED WITH THE COST OF PROPOSED PIPE CULVERT OF THE CLASS AND TYPE SPECIFIED ON THE PLANS.

**THESE LOCATIONS MAY BE ADJUSTED FOR FIELD INSTALLATION, AS APPROVED BY THE ENGINEER.

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
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FILE NAME = #FILES#	USER NAME = default	DESIGNED - JAM	REVISED -
		DRAWN - JAM	REVISED -
		CHECKED - RGR	REVISED -
		DATE - 03/09/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCHEDULES

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

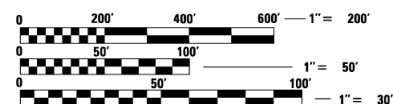
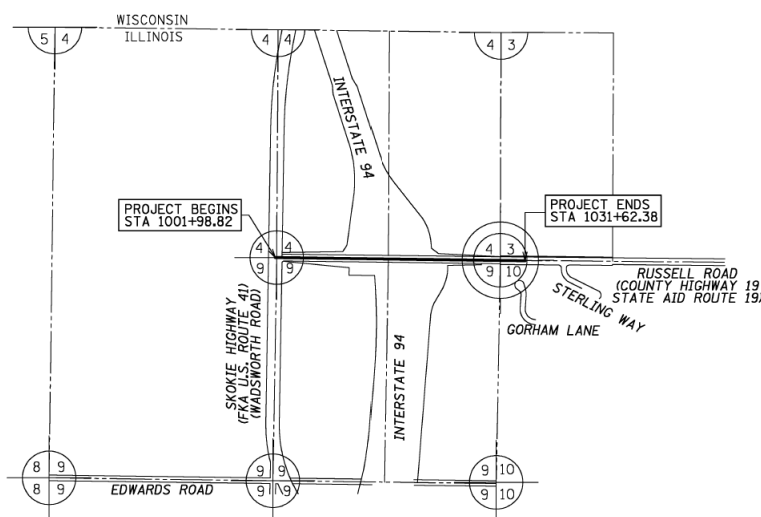
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	55
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

S:\1101\95-CADD\60L76-Russell Rd\60L76 Sheets\0160L76-shr-schedule.dwg

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY PLANS
**FOR PROPOSED
FEDERAL AID HIGHWAY**

ROUTE: INTERSTATE 94
SECTION: AT RUSSELL ROAD
PROJECT NO:
JOB NO.: R-91-025-09
COUNTY: LAKE
LIMITS: 1001 + 98.82 TO 1031 + 62.38

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	AT RUSSELL ROAD	LAKE	6	1
FED. ROAD DIST. NO. 1		ILLINOIS	CONTRACT NO.	



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.

PROJECT LENGTH = 2963.56 LINEAL FEET (0.561 MILES), RUSSELL ROAD

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**


SUBMITTED _____ 20 _____
DISTRICT ENGINEER

EXAMINED _____ 20 _____
DISTRICT RIGHT OF WAY PLANS ENGINEER

PASSED _____ 20 _____
DISTRICT LAND ACQUISITION ENGINEER

REVIEWED _____ 20 _____
CENTRAL BUREAU RIGHT OF WAY PLANS ENGINEER

APPROVED _____ 20 _____
ENGINEER OF LAND ACQUISITION



Mackie Consultants, LLC
9575 W Higgins Road, Suite 500
Rosemont, IL 60018
(847)696-1400
www.mackieconsult.com

FOR INFORMATION ONLY

FILE NAME = #FILES#	USER NAME = default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RUSSELL ROAD RIGHT OF WAY PLANS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -			94	49-1(HB & HB-1R)	LAKE	225	56	
	PLOT SCALE = #SCALE#	CHECKED - RGR	REVISED -			CONTRACT NO. 60L76					
	PLOT DATE = 2/9/2012	DATE - 01/25/2012	REVISED -			SCALE:	SHEET NO. 1 OF 7 SHEETS	STA. N/A	TO STA. N/A	ILLINOIS FED. AID PROJECT	

S:\1101\95-CADD\60L76 Russel11 Rdwy\60L76 Sheets\0160L76-ah1-r-empland.dgn

PART OF THE SOUTHWEST FRACTIONAL QUARTER OF SECTION 3, PART OF THE SOUTHEAST FRACTIONAL QUARTER OF SECTION 4, PART OF THE NORTHEAST QUARTER OF SECTION 9 & PART OF THE NORTHWEST QUARTER OF SECTION 10, ALL IN TWP. 46 N., R. 11 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.

LEGEND

- SECTION CORNER
- QUARTER CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION (129.32')
- RECORDED DIMENSION
- EXISTING BUILDING
- IRON PIPE OR ROD FOUND
- CUT CROSS FOUND OR SET
- TI TIE
- T3 TIE
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT2 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET
- BB = BUFFALO BOX
- BSL = BUILDING SETBACK LINE
- CONC = CONCRETE
- DE = DRAINAGE EASEMENT
- HMA = HOT MIX ASPHALT
- PP = POWER POLE
- PEDC = CABLE PEDESTAL
- PUDE = PUBLIC UTILITY & DRAINAGE EASEMENT
- TRANS = TRANSFORMER
- ⊕ = "MAG" NAIL SET
- 5 / 8" REBAR SET

GRAPHIC SCALE FEET
SCALE: 1" = 50'

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1H80100	SINGH, INC. OF ILLINOIS, A WISCONSIN CORPORATION	10.028	0.698	0.000	9.330			03-04-400-011	
1H80101	HPT TA PROPERTIES LLC, A MARYLAND LIMITED LIABILITY COMPANY	61.871	0.289	0.000	61.582			03-09-200-024 03-09-200-023	

COORDINATE/STATION TABLE

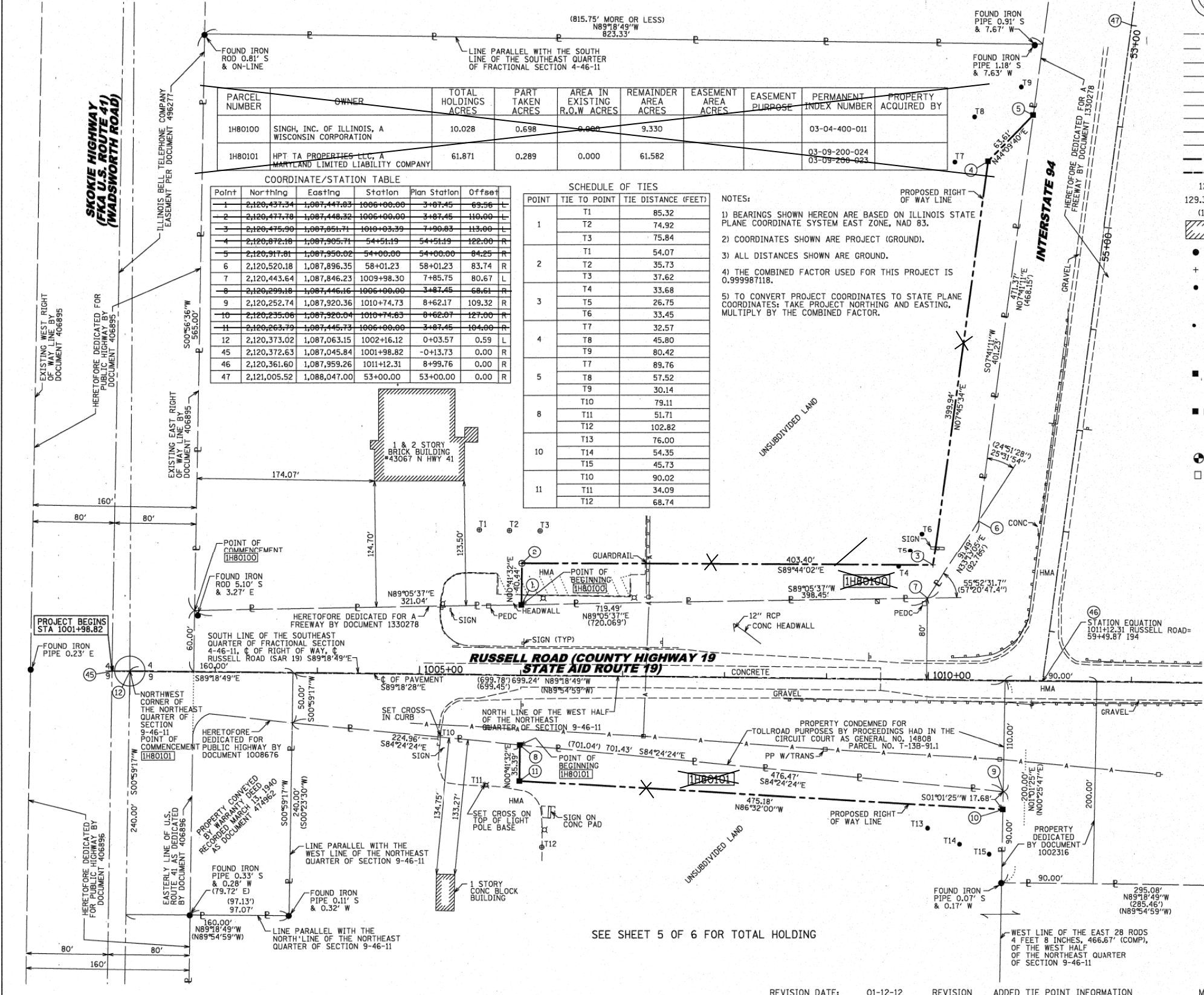
Point	Northing	Easting	Station	Plan Station	Offset
1	2,120,437.34	1,087,447.83	1006+00.00	3+07.45	69.56 L
2	2,120,477.78	1,087,448.32	1006+00.00	3+07.45	110.00 L
3	2,120,475.98	1,087,851.71	1010+03.39	7+06.03	113.00 L
4	2,120,872.18	1,087,905.71	54+51.19	54+51.19	122.00 R
5	2,120,917.81	1,087,950.02	54+00.00	54+00.00	84.25 R
6	2,120,520.18	1,087,896.35	58+01.23	58+01.23	83.74 R
7	2,120,443.64	1,087,846.23	1009+98.30	7+85.75	80.67 L
8	2,120,299.18	1,087,446.16	1006+00.00	3+07.45	68.61 R
9	2,120,252.74	1,087,920.36	1010+74.73	8+62.17	109.32 R
10	2,120,235.06	1,087,920.04	1010+74.63	8+62.07	127.00 R
11	2,120,263.79	1,087,445.73	1006+00.00	3+07.45	104.90 R
12	2,120,373.02	1,087,063.15	1002+16.12	0+03.57	0.59 L
45	2,120,372.63	1,087,045.84	1001+98.82	-0+13.73	0.00 R
46	2,120,361.60	1,087,959.26	1011+12.31	8+99.76	0.00 R
47	2,121,005.52	1,088,047.00	53+00.00	53+00.00	0.00 R

SCHEDULE OF TIES

POINT	TIE TO POINT	TIE DISTANCE (FEET)
1	T1	85.32
	T2	74.92
	T3	75.84
	T1	54.07
2	T2	35.73
	T3	37.62
	T4	33.68
	T5	26.75
	T6	33.45
3	T7	32.57
	T8	45.80
	T9	80.42
	T7	89.76
4	T8	57.52
	T9	30.14
	T10	79.11
	T11	51.71
	T12	102.82
10	T13	76.00
	T14	54.35
	T15	45.73
	T10	90.02
	T11	34.09
	T12	68.74

NOTES:
 1) BEARINGS SHOWN HEREON ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, NAD 83.
 2) COORDINATES SHOWN ARE PROJECT (GROUND).
 3) ALL DISTANCES SHOWN ARE GROUND.
 4) THE COMBINED FACTOR USED FOR THIS PROJECT IS 0.999987118.
 5) TO CONVERT PROJECT COORDINATES TO STATE PLANE COORDINATES: TAKE PROJECT NORTHING AND EASTING, MULTIPLY BY THE COMBINED FACTOR.

DATE	BY
04/28/2011	SDS
04/28/2011	DAG
02/03/2012	DAG
DRAWN	SDS
APPROVED	DAG
REVISED	DAG



STATE OF ILLINOIS)
 COUNTY OF COOK)

RECEIVED
 FEB 08 2012
 PLATS & LEGALS

THIS IS TO CERTIFY THAT WE, MACKIE CONSULTANTS, LLC, AN ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-002694, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 3, 4, 9 & 10, TOWNSHIP 46 NORTH, RANGE 11 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 RETRACTED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT ROSEMONT, ILLINOIS THIS 7th DAY OF February, 2012 A.D.

DALE A. GRAY
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003057
 LICENSE EXPIRES: NOVEMBER 30, 2012

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Mackie Consultants, LLC
 9575 W. Higgins Road, Suite 500
 Rosemont, IL 60018
 (847)896-1400
 www.mackieconsult.com

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 INTERSTATE 94

SECTION: AT RUSSELL ROAD COUNTY: LAKE
 PROJECT: INTERSTATE 94 JOB NO.: R-91-025-09
 STATION: 1001+98.82 TO STATION: 1012+00
 SCALE: 1"=50' SHEET 2 OF 6

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

ROUTE NAME INTERSTATE 94 SECTION: AT RUSSELL ROAD LAKE COUNTY JOB NO.: R-91-025-09 RECORDING: RECORDED ON

FOR INFORMATION ONLY

FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RUSSELL ROAD RIGHT OF WAY PLANS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
FILES	default	-	-			94	49-1(HB & HB-1R)	LAKE	225	57	
PLOT SCALE	*SCALE*	CHECKED	REVISED			CONTRACT NO. 60L76					
PLOT DATE	3/8/2012	DATE	REVISED			ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET NO. 2 OF 7 SHEETS	STA. N/A TO STA. N/A			

PART OF THE SOUTHWEST FRACTIONAL QUARTER OF SECTION 3, PART OF THE SOUTHEAST FRACTIONAL QUARTER OF SECTION 4, PART OF THE NORTHEAST QUARTER OF SECTION 9 & PART OF THE NORTHWEST QUARTER OF SECTION 10, ALL IN TWP. 46 N., R. 11 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.

LEGEND

SECTION CORNER: 9 10 16 15

QUARTER CORNER: 16 15

SECTION LINE: ---

QUARTER SECTION LINF: - - -

QUARTER, QUARTER SECTION LINE: - · - · -

PLATTED LOT LINES: - - -

PROPERTY (DEED) LINE: ———

APL: ———

EXISTING CENTERLINE: - - -

PROPOSED CENTERLINE: - · - · -

EXISTING RIGHT OF WAY LINE: - - -

PROPOSED RIGHT OF WAY LINE: - · - · -

PROPOSED EASEMENT: - - -

MEASURED DIMENSION: 125.32'

COMPUTED DIMENSION: 129.32' (COMP)

RECORDED DIMENSION: (129.32')

EXISTING BUILDING: [Hatched Box]

IRON PIPE OR ROD FOUND: ●

CUT CROSS FOUND OR SET: +

BT1: THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

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

BT3: STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

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

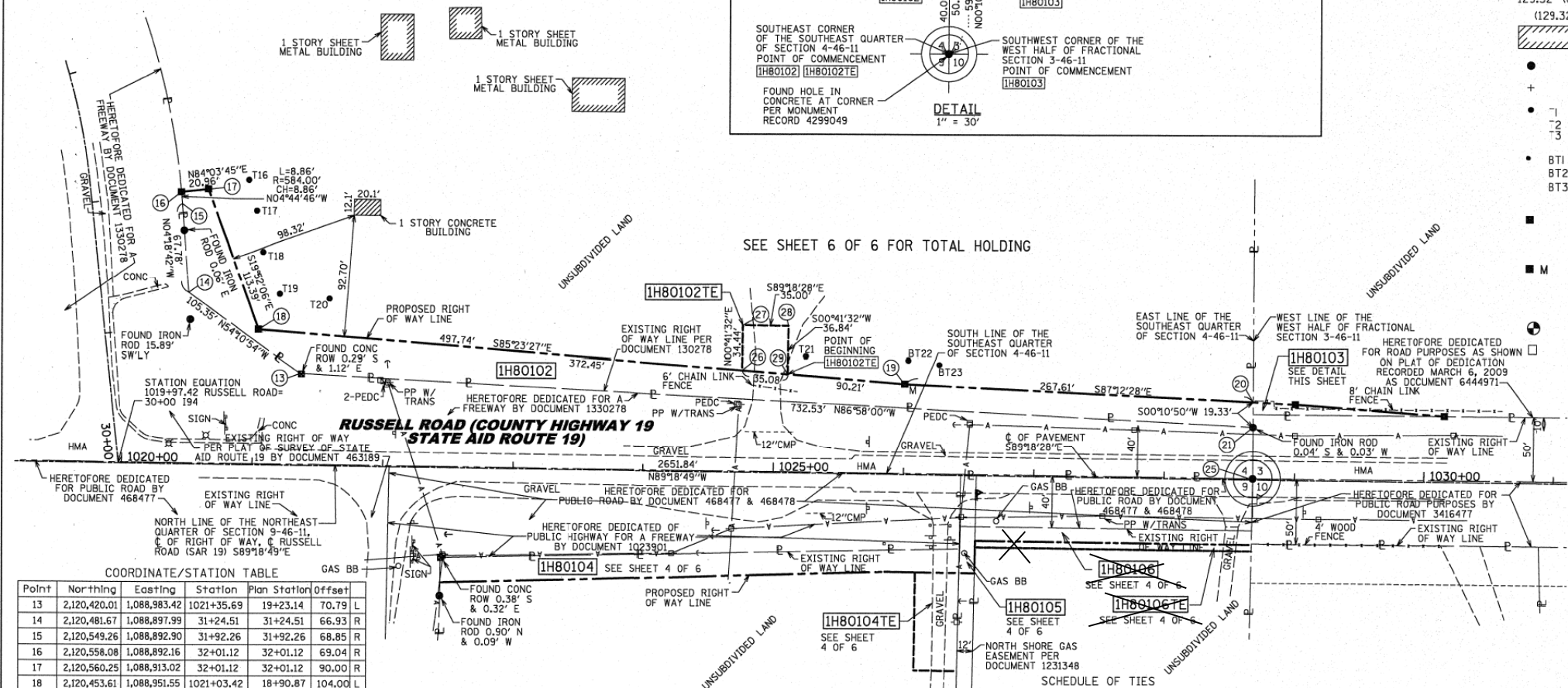
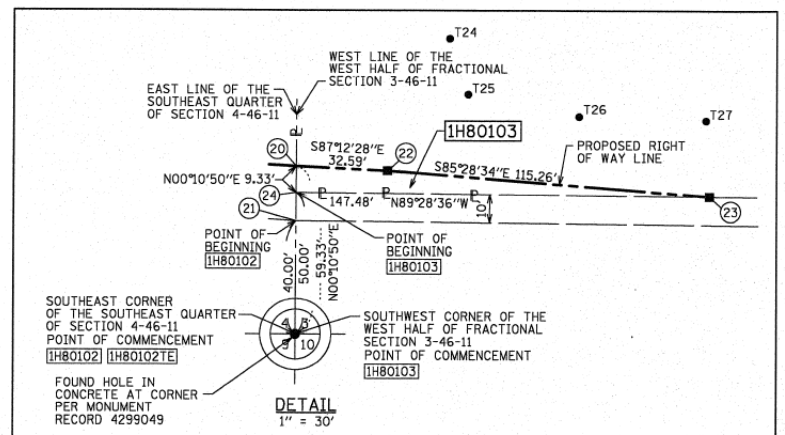
PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

RIGHT OF WAY STAKING PROPOSED TO BE SET

BB = BUFFALO BOX
BSL = BUILDING SETBACK LINE
CONC = CONCRETE
DE = DRAINAGE EASEMENT
HMA = HOT MIX ASPHALT
PP = POWER POLE
PEDC = CABLE PEDESTAL
PUDE = PUBLIC UTILITY & DRAINAGE EASEMENT
TRANS = TRANSFORMER

⊕ "MAG" NAIL SET
● 5 / 8" REBAR SET

GRAPHIC SCALE: 1" = 50'



COORDINATE/STATION TABLE

Point	Northing	Easting	Station	Plan Station	Offset
13	2,120,420.01	1,088,983.42	1021+35.69	19+23.14	70.79 L
14	2,120,481.67	1,088,897.99	31+24.51	31+24.51	66.93 R
15	2,120,549.26	1,088,892.90	31+92.26	31+92.26	68.85 R
16	2,120,558.08	1,088,892.16	32+01.12	32+01.12	69.04 R
17	2,120,560.25	1,088,913.02	32+01.12	32+01.12	90.00 R
18	2,120,453.61	1,088,951.55	1021+03.42	18+90.87	104.00 L
19	2,120,413.62	1,089,447.69	1026+00.00	23+87.45	70.00 L
20	2,120,400.58	1,089,714.98	1028+67.43	26+54.88	60.19 L
21	2,120,381.25	1,089,714.92	1028+67.60	26+55.05	40.86 L
22	2,120,398.99	1,089,747.53	1029+00.00	26+87.45	59.00 L
23	2,120,389.90	1,089,862.43	1030+15.00	28+02.45	51.30 L
24	2,120,391.25	1,089,714.95	1028+67.51	26+54.96	50.86 L
25	2,120,341.25	1,089,714.79	1028+67.96	26+55.41	0.86 L
26	2,120,423.68	1,089,322.80	1024+75.00	22+62.45	78.56 L
27	2,120,458.12	1,089,323.21	1024+75.00	22+62.45	113.00 L
28	2,120,457.70	1,089,358.21	1025+10.00	22+97.45	113.00 L
29	2,120,420.87	1,089,357.77	1025+10.00	22+97.45	76.16 L

SCHEDULE OF TIES

POINT	TIE TO POINT	TIE DISTANCE (FEET)
16	T16	52.83
	T17	59.81
	T18	77.61
17	T16	31.95
	T17	40.68
	T18	63.54
18	T18	59.08
	T19	31.58
	T20	59.23
19	T21	78.85
	BT22	18.39
	BT23	30.39
22	T24	54.77
	T25	39.81
	T26	71.01
23	T25	93.64
	T26	54.75
	T27	27.36

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
IH80102	ALBERT L. HALL, OR HIS SUCCESSOR IN TRUST, AS TRUSTEE UNDER A TRUST AGREEMENT DATED THE 18TH DAY OF DECEMBER, 1935, AND KNOWN AS "THE FOSSLAND TRUST"	85.874	0.471	0.000	85.403			03-04-400-014 03-04-400-004 03-04-400-015	
IH80102TE			0.000			0.029	TEMPORARY		
IH80103	COUNTY OF LAKE	81.011	0.017	0.000	80.994			03-03-300-007	

STATE OF ILLINOIS
COUNTY OF COOK

RECEIVED
FEB 08 2012

PLATS & LEGALS

THIS IS TO CERTIFY THAT WE, MACKIE CONSULTANTS, LLC, AN ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-002694, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 3, 4, 9 & 10, TOWNSHIP 46 NORTH, RANGE 11 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 ROSEMONT, ILLINOIS THIS 7TH DAY OF February, 2012 A.D.

DALE A. GRAY
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003057
LICENSE EXPIRES: NOVEMBER 30, 2012

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

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PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
INTERSTATE 94

SECTION: AT RUSSELL ROAD COUNTY: LAKE
PROJECT: INTERSTATE 94 JOB NO.: R-91-025-09
STATION: 1020+00 TO STATION: 1031+62.38
SCALE: 1"=50' SHEET 3 OF 6

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

ROUTE NAME INTERSTATE 94 SECTION: AT RUSSELL ROAD LAKE COUNTY JOB NO.: R-91-025-09 RECORDING: RECORDED ON

FOR INFORMATION ONLY

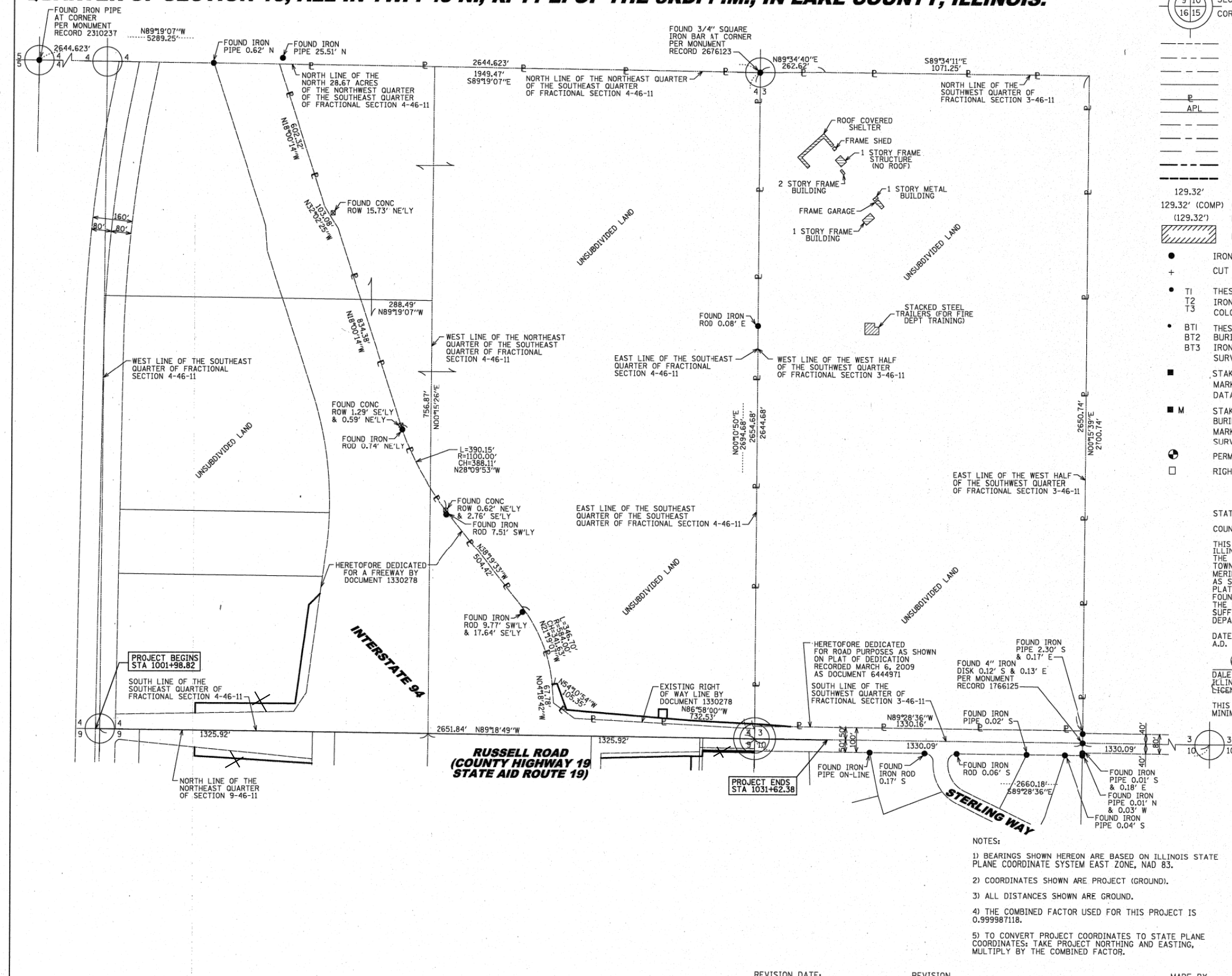
PART OF THE SOUTHWEST FRACTIONAL QUARTER OF SECTION 3, PART OF THE SOUTHEAST FRACTIONAL QUARTER OF SECTION 4, PART OF THE NORTHEAST QUARTER OF SECTION 9 & PART OF THE NORTHWEST QUARTER OF SECTION 10, ALL IN TWP. 46 N., R. 11 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.

LEGEND

SECTION CORNER 16 SECTION CORNER

GRAPHIC SCALE FEET
0 200'
SCALE: 1" = 200'

DATE	BY
DRAWN 04/28/2011	SDS
APPROVED 04/28/2011	DAG
REVISED 02/03/2012	DAG



- 129.32' MEASURED DIMENSION
- 129.32' (COMP) COMPUTED DIMENSION
- (129.32') RECORDED DIMENSION
- EXISTING BUILDING
- IRON PIPE OR ROD FOUND
- CUT CROSS FOUND OR SET
- TI T2 T3 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 BT2 BT3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET

RECEIVED
FEB 08 2012
PLATS & LEGALS

STATE OF ILLINOIS)
COUNTY OF COOK)

THIS IS TO CERTIFY THAT WE, MACKIE CONSULTANTS, LLC, AN ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-002694, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 3, 4, 9 & 10, TOWNSHIP 46 NORTH, RANGE 11 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 ROSEMONT, ILLINOIS THIS 7th DAY OF February, 2012 A.D.

DALE A. GRAY
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003057
LICENSE EXPIRES: NOVEMBER 30, 2012

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Mackie Consultants, LLC
9575 W. Higgins Road, Suite 500
Rosemont, IL 60018
(847)696-1400
www.mackieconsult.com

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
INTERSTATE 94

SECTION: AT RUSSELL ROAD COUNTY: LAKE
PROJECT: INTERSTATE 94 JOB NO.: R-91-025-09
STATION: 1001+98.82 TO STATION: 1031+62.38
SCALE: 1"=200' SHEET 6 OF 6

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

- NOTES:
- 1) BEARINGS SHOWN HEREON ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, NAD 83.
 - 2) COORDINATES SHOWN ARE PROJECT (GROUND).
 - 3) ALL DISTANCES SHOWN ARE GROUND.
 - 4) THE COMBINED FACTOR USED FOR THIS PROJECT IS 0.9999871118.
 - 5) TO CONVERT PROJECT COORDINATES TO STATE PLANE COORDINATES: TAKE PROJECT NORTHING AND EASTING, MULTIPLY BY THE COMBINED FACTOR.

ROUTE NAME INTERSTATE 94 SECTION: AT RUSSELL ROAD LAKE COUNTY JOB NO.: R-91-025-09 RECORDING: RECORDED ON

FOR INFORMATION ONLY

FILE NAME = *FILES*	USER NAME = default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RUSSELL ROAD RIGHT OF WAY PLANS	F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -			94	49-1(HB & HB-1R)	LAKE	225	61	
		CHECKED - RGR	REVISED -			CONTRACT NO. 60L76					
		DATE - 03/09/2012	REVISED -			SCALE:	SHEET NO. 6 OF 7 SHEETS	STA. N/A	TO STA. N/A	ILLINOIS FED. AID PROJECT	

PART OF THE SOUTHWEST FRACTIONAL QUARTER OF SECTION 3, PART OF THE SOUTHEAST FRACTIONAL QUARTER OF SECTION 4, PART OF THE NORTHEAST QUARTER OF SECTION 9 & PART OF THE NORTHWEST QUARTER OF SECTION 10, ALL IN TWP. 46 N., R. 11 E. OF THE 3RD. P.M., IN LAKE COUNTY, ILLINOIS.

LEGEND

SECTION CORNER
QUARTER CORNER

SECTION LINE
QUARTER SECTION LINE
QUARTER, QUARTER SECTION LINE
PLATTED LOT LINES
PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
EXISTING CENTERLINE
PROPOSED CENTERLINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
PROPOSED EASEMENT
MEASURED DIMENSION
129.32' (COMP) COMPUTED DIMENSION
(129.32') RECORDED DIMENSION
EXISTING BUILDING

BB = BUFFALO BOX
BSL = BUILDING SETBACK LINE
CONC = CONCRETE
DE = DRAINAGE EASEMENT
HMA = HOT MIX ASPHALT
PP = POWER POLE
PEDC = CABLE PEDESTAL
PUDE = PUBLIC UTILITY & DRAINAGE EASEMENT
TRANS = TRANSFORMER

● IRON PIPE OR ROD FOUND
+ CUT CROSS FOUND OR SET

⊙ "MAG" NAIL SET
● 5 / 8" REBAR SET

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

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

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

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

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

□ RIGHT OF WAY STAKING PROPOSED TO BE SET

RESERVED FOR MONUMENT TIES

DATE	BY
04-23-2011	RGR
04-23-2011	DWG
04-23-2011	DWG
04-23-2011	DWG
04-23-2011	DWG
04-23-2011	DWG
04-23-2011	DWG
04-23-2011	DWG
04-23-2011	DWG

STATE OF ILLINOIS)
COUNTY OF COOK)

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DATED AT ROSEMONT, ILLINOIS THIS ____ DAY OF _____, 20__ A.D.

DALE A. GRAY
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-003057
LICENSE EXPIRES: NOVEMBER 30, 2012

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



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**PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
INTERSTATE 94**

SECTION: AT RUSSELL ROAD COUNTY: LAKE
PROJECT: INTERSTATE 94 JOB NO.: R-91-025-09
STATION: TO STATION:
SCALE: 1"= SHEET 7 OF 7

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

- NOTES:
- 1) BEARINGS SHOWN HEREON ARE BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, NAD 83.
 - 2) COORDINATES SHOWN ARE PROJECT (GROUND).
 - 3) ALL DISTANCES SHOWN ARE GROUND.
 - 4) THE COMBINED FACTOR USED FOR THIS PROJECT IS 0.999987118.
 - 5) TO CONVERT PROJECT COORDINATES TO STATE PLANE COORDINATES, TAKE PROJECT NORTHING AND EASTING, MULTIPLY BY THE COMBINED FACTOR.

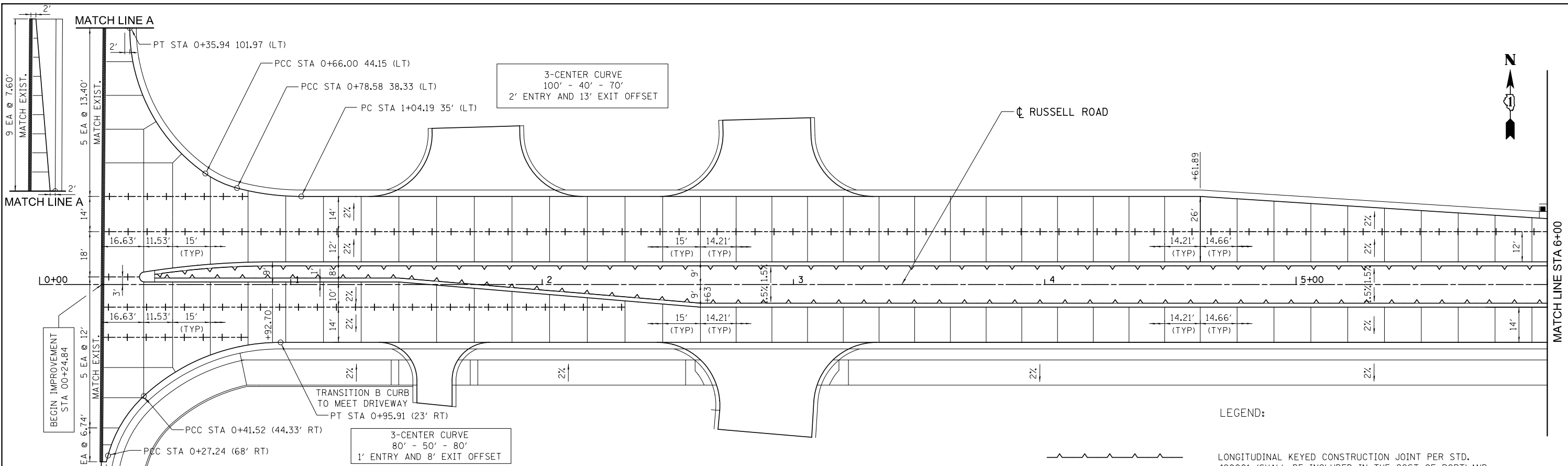
REVISION DATE: REVISION MADE BY

ROUTE NAME INTERSTATE 94 SECTION: AT RUSSELL ROAD LAKE COUNTY JOB NO.: R-91-025-09 RECORDING: RECORDED ON

FOR INFORMATION ONLY

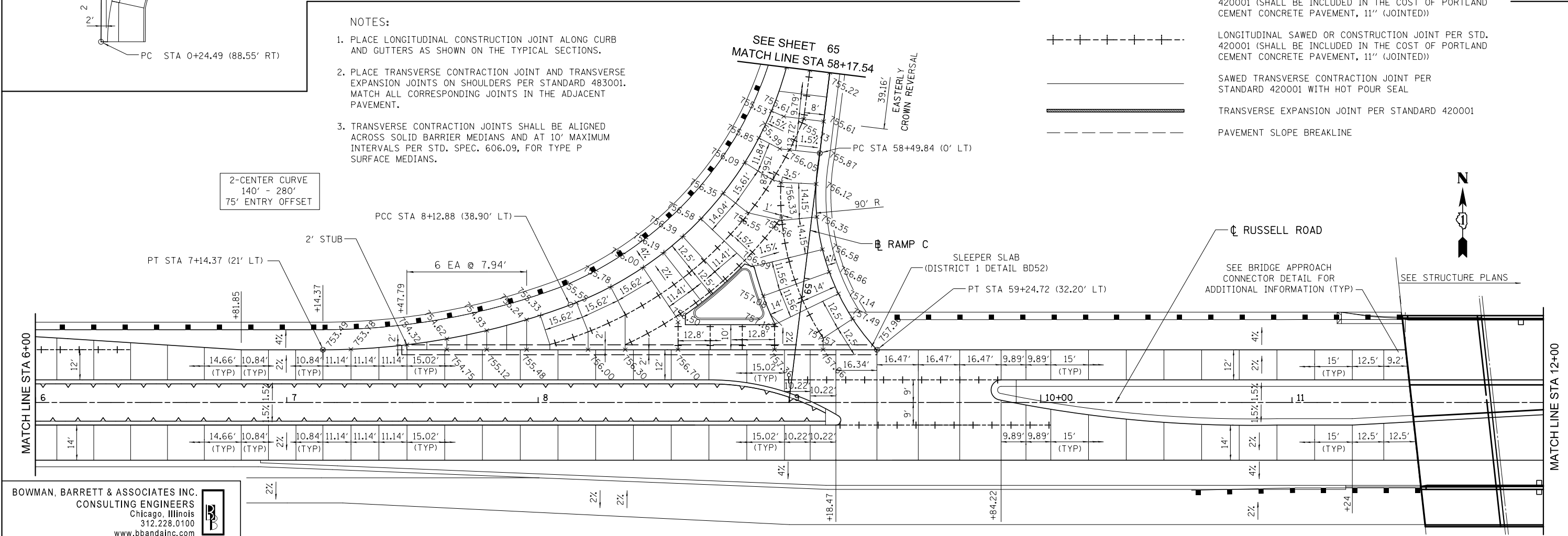
FILE NAME = \$FILES\$	USER NAME = default	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RUSSELL ROAD RIGHT OF WAY PLANS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -			94	49-1(HB & HB-1R)	LAKE	225	62	
PLOT SCALE = \$SCALE\$		CHECKED - RGR	REVISED -			CONTRACT NO. 60L76					
PLOT DATE = 1/27/2012		DATE - 01/25/2012	REVISED -			SCALE:	SHEET NO. 7 OF 7 SHEETS	STA. N/A	TO STA. N/A	ILLINOIS FED. AID PROJECT	

S:\1101\95-CADD\60L76-Russell Rdwy\60L76-Sheets\0160L76-shr-compland.dgn



- NOTES:**
1. PLACE LONGITUDINAL CONSTRUCTION JOINT ALONG CURB AND GUTTERS AS SHOWN ON THE TYPICAL SECTIONS.
 2. PLACE TRANSVERSE CONTRACTION JOINT AND TRANSVERSE EXPANSION JOINTS ON SHOULDERS PER STANDARD 483001. MATCH ALL CORRESPONDING JOINTS IN THE ADJACENT PAVEMENT.
 3. TRANSVERSE CONTRACTION JOINTS SHALL BE ALIGNED ACROSS SOLID BARRIER MEDIANS AND AT 10' MAXIMUM INTERVALS PER STD. SPEC. 606.09, FOR TYPE P SURFACE MEDIANS.

- LEGEND:**
- LONGITUDINAL KEYED CONSTRUCTION JOINT PER STD. 420001 (SHALL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE PAVEMENT, 11" (JOINTED))
 - LONGITUDINAL SAWED OR CONSTRUCTION JOINT PER STD. 420001 (SHALL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE PAVEMENT, 11" (JOINTED))
 - SAWED TRANSVERSE CONTRACTION JOINT PER STANDARD 420001 WITH HOT POUR SEAL
 - TRANSVERSE EXPANSION JOINT PER STANDARD 420001
 - PAVEMENT SLOPE BREAKLINE

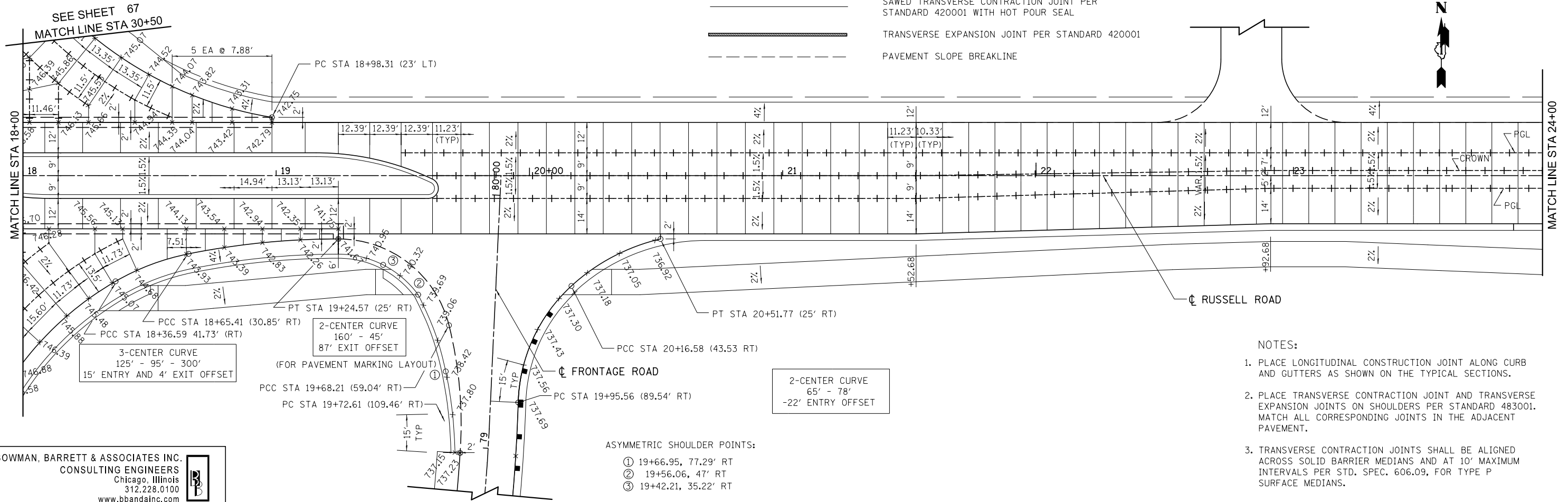
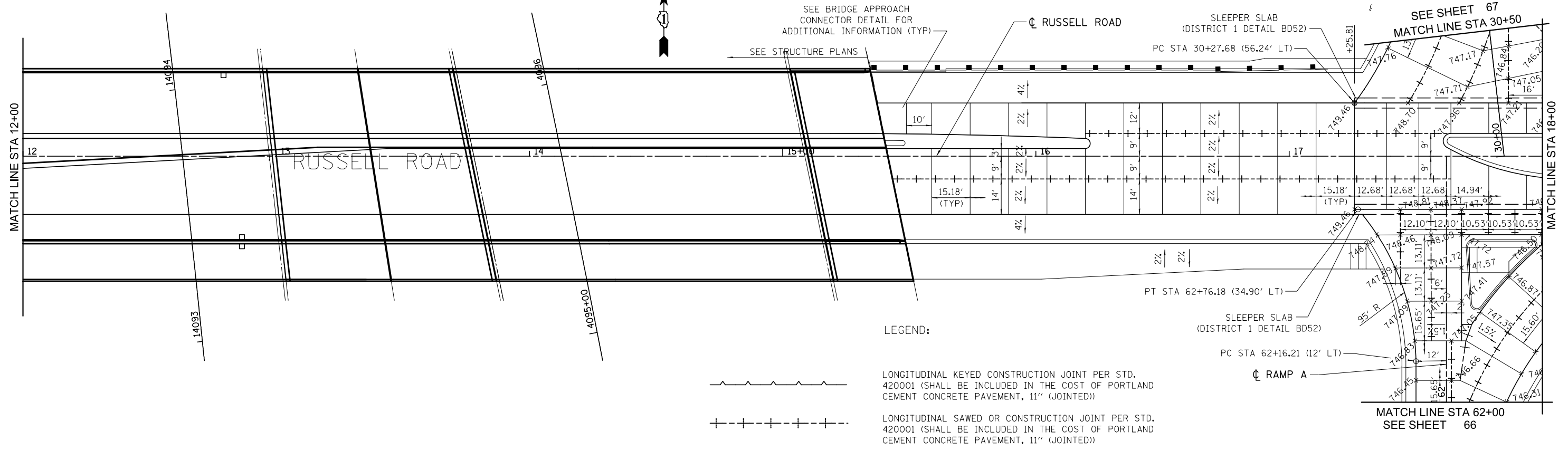


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 312.228.0100
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FILE NAME = #FILES#	USER NAME = default	DESIGNED - JDC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RUSSELL ROAD JOINTING PLAN	F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = #SCALE#	DRAWN - JDC	REVISED -			94	49-1(HB & HB-1R)	LAKE	225	63	
	PLOT DATE = 3/9/2012	CHECKED - RGR	REVISED -			CONTRACT NO. 60L76					
		DATE - 03/09/2012	REVISED -			ILLINOIS FED. AID PROJECT					

SCALE: 1" = 20' SHEET NO. 1 OF 5 SHEETS STA. 00+24.84 TO STA. 12+00.00

S:\1101\95\CADD\60L76 Russell Rd\60L76 Sheets\0160L76-shr-jointing01.dgn



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- ASYMMETRIC SHOULDER POINTS:
- ① 19+66.95, 77.29' RT
 - ② 19+56.06, 47' RT
 - ③ 19+42.21, 35.22' RT

- NOTES:
1. PLACE LONGITUDINAL CONSTRUCTION JOINT ALONG CURB AND GUTTERS AS SHOWN ON THE TYPICAL SECTIONS.
 2. PLACE TRANSVERSE CONTRACTION JOINT AND TRANSVERSE EXPANSION JOINTS ON SHOULDERS PER STANDARD 483001. MATCH ALL CORRESPONDING JOINTS IN THE ADJACENT PAVEMENT.
 3. TRANSVERSE CONTRACTION JOINTS SHALL BE ALIGNED ACROSS SOLID BARRIER MEDIANS AND AT 10' MAXIMUM INTERVALS PER STD. SPEC. 606.09, FOR TYPE P SURFACE MEDIANS.

FILE NAME = #FILES#	USER NAME = default	DESIGNED - JDC	REVISED -
		DRAWN - JDC	REVISED -
PLOT SCALE = #SCALE#		CHECKED - RGR	REVISED -
PLOT DATE = 3/9/2012		DATE - 03/09/2012	REVISED -

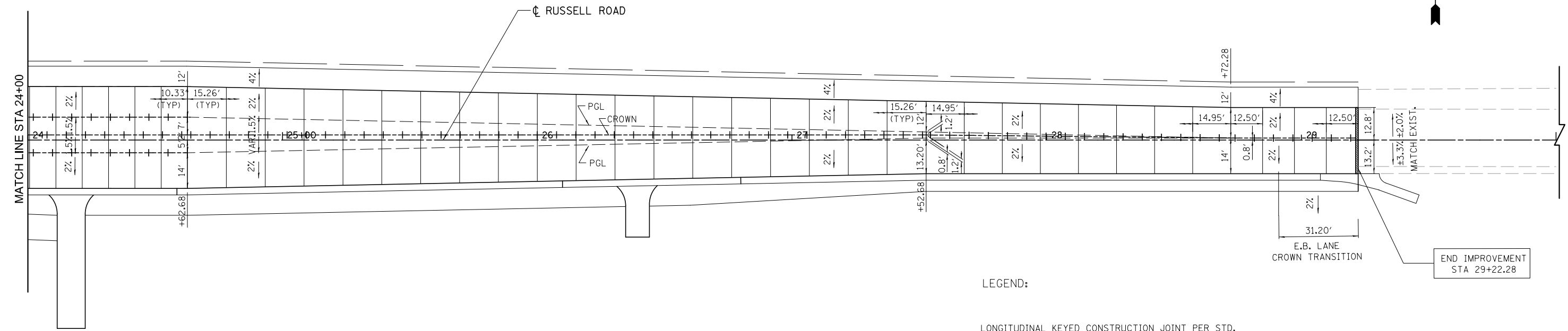
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

RUSSELL ROAD JOINTING PLAN

SCALE: 1" = 20' SHEET NO. 2 OF 5 SHEETS STA. 12+00.00 TO STA. 24+00.00

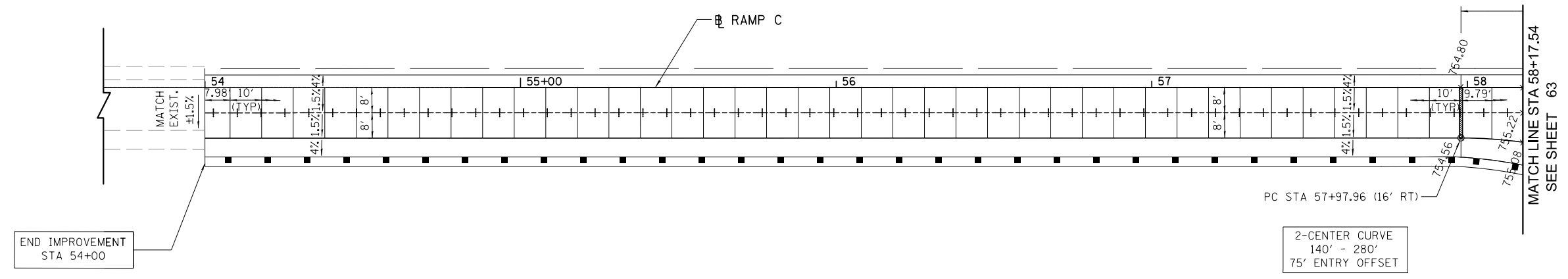
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	64
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

S:\1101\95\CADD\60L76 Russell Rdwy\60L76 Sheets\0160L76-shr-jointing92.dgn



LEGEND:

- LONGITUDINAL KEYED CONSTRUCTION JOINT PER STD. 420001 (SHALL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE PAVEMENT, 11" (JOINTED))
- LONGITUDINAL SAWED OR CONSTRUCTION JOINT PER STD. 420001 (SHALL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE PAVEMENT, 11" (JOINTED))
- SAWED TRANSVERSE CONTRACTION JOINT PER STANDARD 420001 WITH HOT POUR SEAL
- TRANSVERSE EXPANSION JOINT PER STANDARD 420001
- PAVEMENT SLOPE BREAKLINE



NOTES:

1. PLACE LONGITUDINAL CONSTRUCTION JOINT ALONG CURB AND GUTTERS AS SHOWN ON THE TYPICAL SECTIONS.
2. PLACE TRANSVERSE CONTRACTION JOINT AND TRANSVERSE EXPANSION JOINTS ON SHOULDERS PER STANDARD 483001. MATCH ALL CORRESPONDING JOINTS IN THE ADJACENT PAVEMENT.
3. TRANSVERSE CONTRACTION JOINTS SHALL BE ALIGNED ACROSS SOLID BARRIER MEDIANS AND AT 10' MAXIMUM INTERVALS PER STD. SPEC. 606.09, FOR TYPE P SURFACE MEDIANS.

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FILE NAME = #FILES#	USER NAME = default	DESIGNED - JDC	REVISED -
		DRAWN - JDC	REVISED -
		CHECKED - RGR	REVISED -
		DATE - 03/09/2012	REVISED -

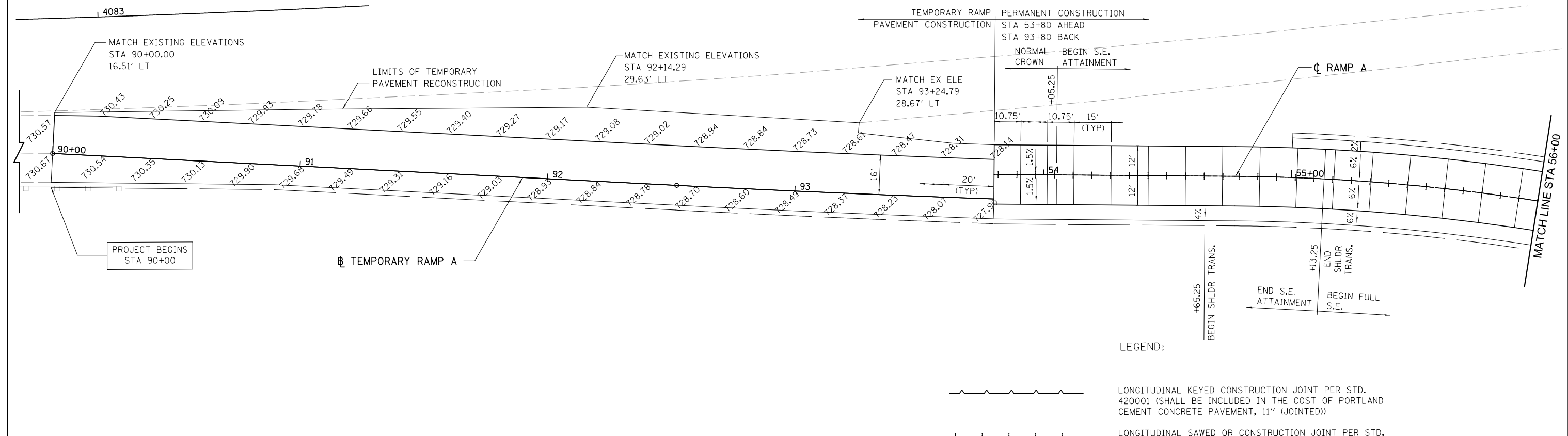
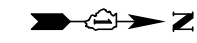
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RUSSELL ROAD & RAMP C JOINTING PLAN

SCALE: 1" = 20' SHEET NO. 3 OF 5 SHEETS STA. 24+00.00 TO STA. 29+22.28

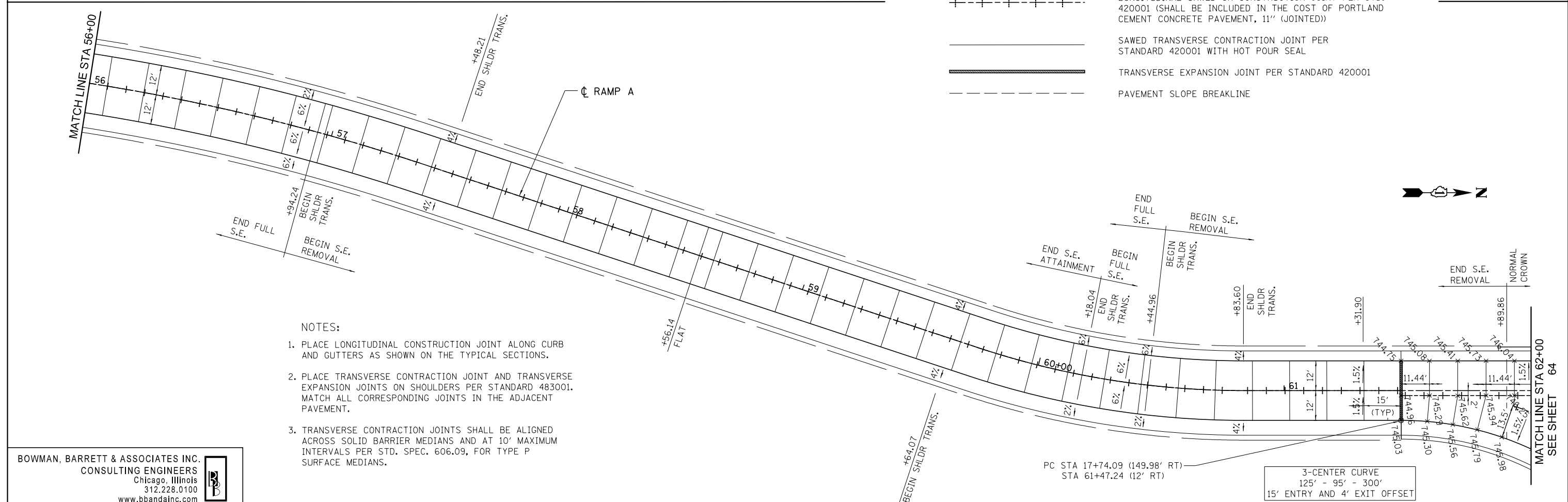
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	65
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

S:\1101\95\CADD\60L76 Russell Rdwy\60L76 Sheets\0160L76-shr-jointing03.dgn



LEGEND:

- LONGITUDINAL KEYPED CONSTRUCTION JOINT PER STD. 420001 (SHALL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE PAVEMENT, 11" (JOINTED))
- LONGITUDINAL SAWED OR CONSTRUCTION JOINT PER STD. 420001 (SHALL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE PAVEMENT, 11" (JOINTED))
- SAWED TRANSVERSE CONTRACTION JOINT PER STANDARD 420001 WITH HOT POUR SEAL
- TRANSVERSE EXPANSION JOINT PER STANDARD 420001
- PAVEMENT SLOPE BREAKLINE



- NOTES:
- PLACE LONGITUDINAL CONSTRUCTION JOINT ALONG CURB AND GUTTERS AS SHOWN ON THE TYPICAL SECTIONS.
 - PLACE TRANSVERSE CONTRACTION JOINT AND TRANSVERSE EXPANSION JOINTS ON SHOULDERS PER STANDARD 483001. MATCH ALL CORRESPONDING JOINTS IN THE ADJACENT PAVEMENT.
 - TRANSVERSE CONTRACTION JOINTS SHALL BE ALIGNED ACROSS SOLID BARRIER MEDIANS AND AT 10' MAXIMUM INTERVALS PER STD. SPEC. 606.09, FOR TYPE P SURFACE MEDIANS.

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FILE NAME = *FILES*	USER NAME = default	DESIGNED - JDC	REVISED -
		DRAWN - JDC	REVISED -
		CHECKED - RGR	REVISED -
		DATE - 03/09/2012	REVISED -

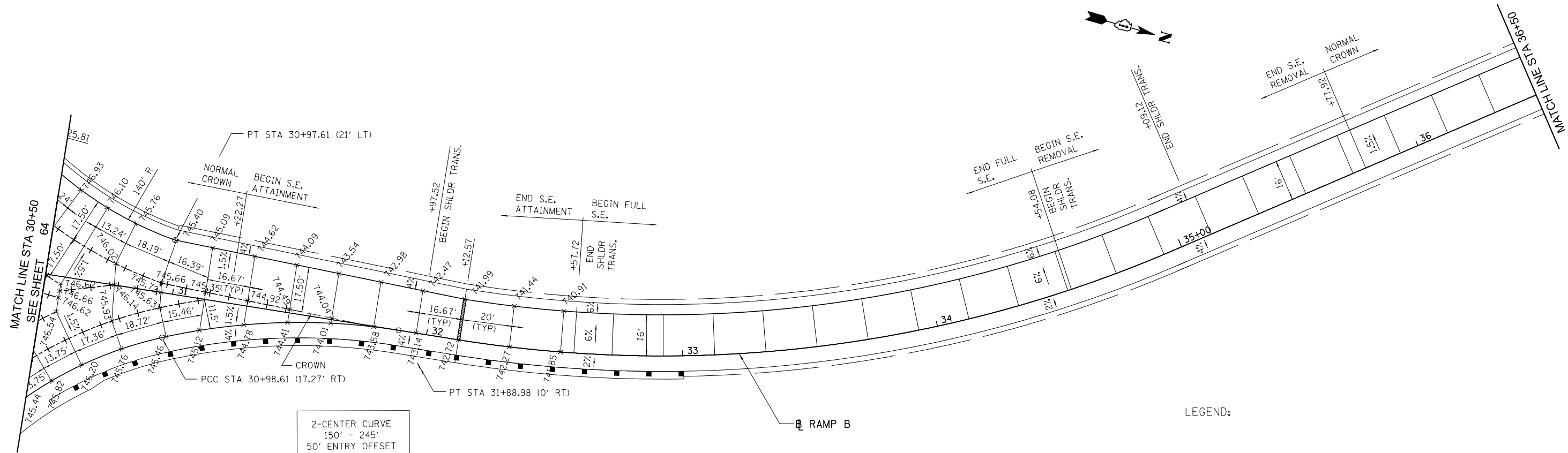
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RAMP A JOINTING PLAN

SCALE: 1" = 20' SHEET NO. 4 OF 5 SHEETS STA. 90+00.00 TO STA. 62+00.00

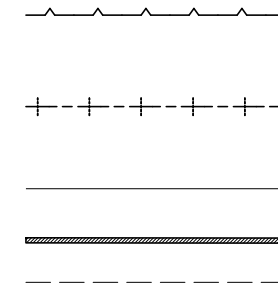
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	66
CONTRACT NO. 60L76			ILLINOIS FED. AID PROJECT	

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2-CENTER CURVE
150' - 245'
50' ENTRY OFFSET

LEGEND:



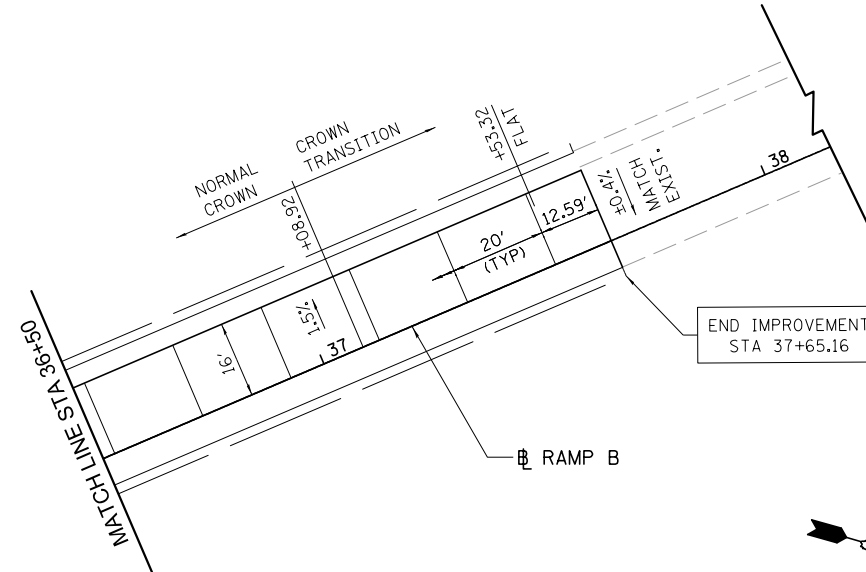
LONGITUDINAL KEYED CONSTRUCTION JOINT PER STD. 420001 (SHALL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE PAVEMENT, 11" (JOINTED))

LONGITUDINAL SAWED OR CONSTRUCTION JOINT PER STD. 420001 (SHALL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE PAVEMENT, 11" (JOINTED))

SAWED TRANSVERSE CONTRACTION JOINT PER STANDARD 420001 WITH HOT POUR SEAL

TRANSVERSE EXPANSION JOINT PER STANDARD 420001

PAVEMENT SLOPE BREAKLINE



NOTES:

1. PLACE LONGITUDINAL CONSTRUCTION JOINT ALONG CURB AND GUTTERS AS SHOWN ON THE TYPICAL SECTIONS.
2. PLACE TRANSVERSE CONTRACTION JOINT AND TRANSVERSE EXPANSION JOINTS ON SHOULDERS PER STANDARD 483001. MATCH ALL CORRESPONDING JOINTS IN THE ADJACENT PAVEMENT.
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FILE NAME = #FILES#	USER NAME = default	DESIGNED - JDC	REVISED -
		DRAWN - JDC	REVISED -
	PLOT SCALE = #SCALE#	CHECKED - RGR	REVISED -
	PLOT DATE = 3/9/2012	DATE - 03/09/2012	REVISED -

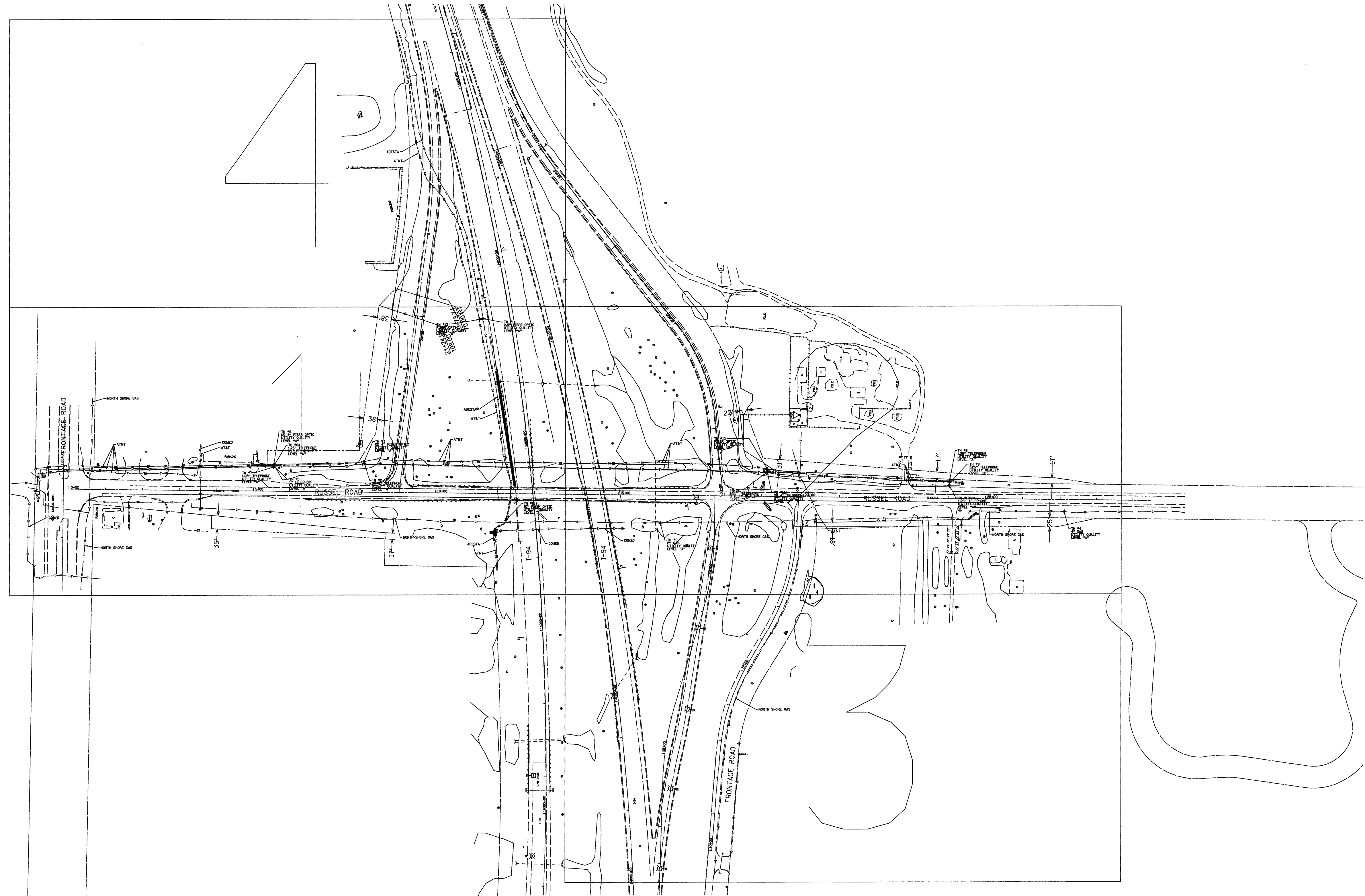
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAMP B JOINTING PLAN

SCALE: 1" = 20' SHEET NO. 5 OF 5 SHEETS STA. 30+50.00 TO STA. 37+65.16

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	67
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

S:\1101\95\CADD\60L76_Russell Rdwy\60L76 Sheets\0160L76-ah-ramptrng95.dgn



- A — A — A — A — AERIAL UTILITY
- — — — — UNKNOWN
- CTV — CTV — CTV — CABLE TV
- T — T — T — TELEPHONE
- G — G — G — GAS
- E — E — E — ELECTRIC
- W — W — W — WATER
- FO — FO — FO — FIBER OPTIC
- — — — — SEWER
- ⊙ TBE TEST HOLE

UTILITY OWNERS

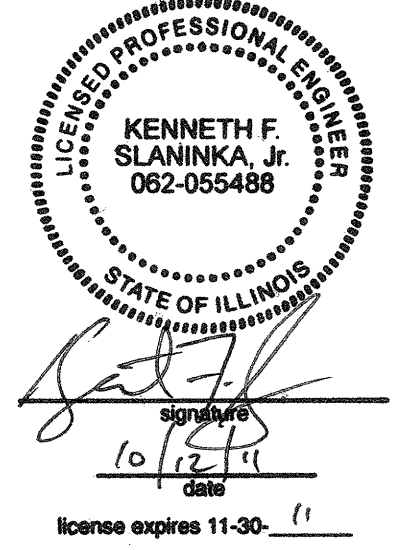
COMED = ELECTRIC
 AT&T = TELEPHONE
 AT&T = FIBER OPTIC
 ADESTA = FIBER OPTIC
 NORTH SHORE = GAS

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's SUE field investigation was performed 8/03/11 through 8/18/11. Changes to utilities after 8/18/11 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

Cardno TBE's SUE Quality Level "A" field investigation was performed 9/21/11 through 10/04/11.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

PLEASE SEE THE VERIFIED UTILITY MATRIX FOR TEST HOLE DEPTH INFORMATION.



TBE Job No. IL09510445, 454
 SUE Plan Page: Cover

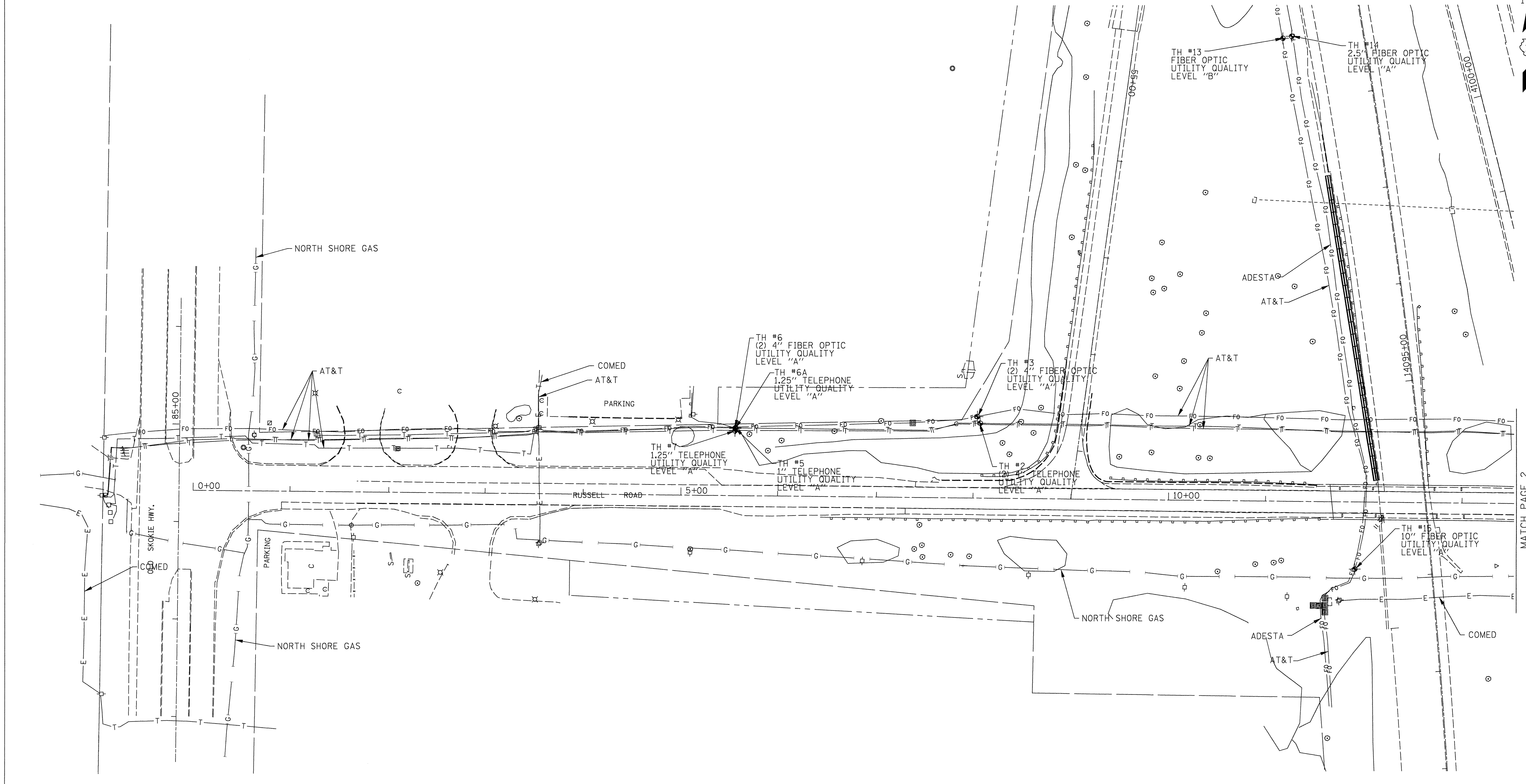
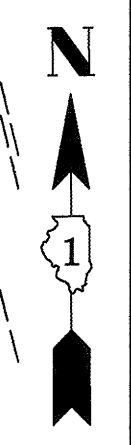
Utility Quality Level "A" : Visually Verified Test Hole
 Utility Quality Level "B" : Designating/Test Holes not Visually Verified
 Utility Quality Level "C" : Research with Survey
 Utility Quality Level "D" : Records Research

DESIGNED	EG	REVISED:	10/10/11 TH#1-15 ADDED
DRAWN	KLC	REVISED	
CHECKED	KFS	REVISED	
DATE	8/23/11	REVISED	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

Russell Road at I-94
 Wadworth, IL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	49-1(HB&HB-1)R	Lake	225	68
FED. ROAD DIST. NO.			ILLINOIS IDOT Project No.	Contract No. 60L76



MATCH PAGE 2

— A — A —	AERIAL UTILITY UNKNOWN
— CTV — CTV —	CABLE TV
— T — T —	TELEPHONE
— G — G —	GAS
— E — E —	ELECTRIC
— W — W —	WATER
— FO — FO —	FIBER OPTIC
—) —) —	SEWER
⊙	TBE TEST HOLE

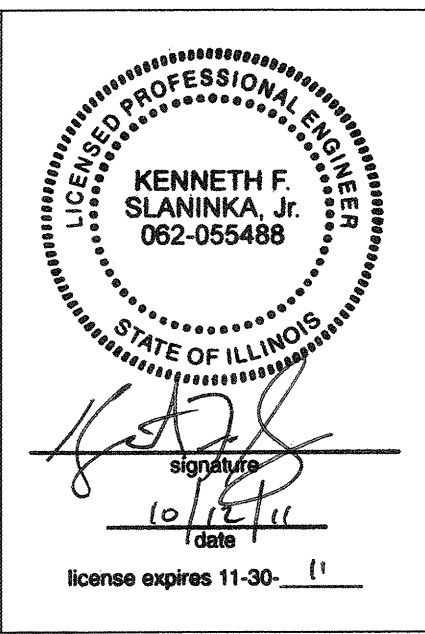
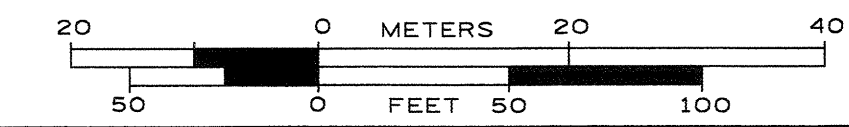
UTILITY OWNERS	
COMED	= ELECTRIC
AT&T	= TELEPHONE
AT&T	= FIBER OPTIC
ADESTA	= FIBER OPTIC
NORTH SHORE	= GAS

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's SUE field investigation was performed 8/03/11 through 8/18/11. Changes to utilities after 8/18/11 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

Cardno TBE's SUE Quality Level "A" field investigation was performed 9/21/11 through 10/04/11.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

PLEASE SEE THE VERIFIED UTILITY MATRIX FOR TEST HOLE DEPTH INFORMATION.



TBE Job No. IL09510445, 454
SUE Plan Page: 1 of 4

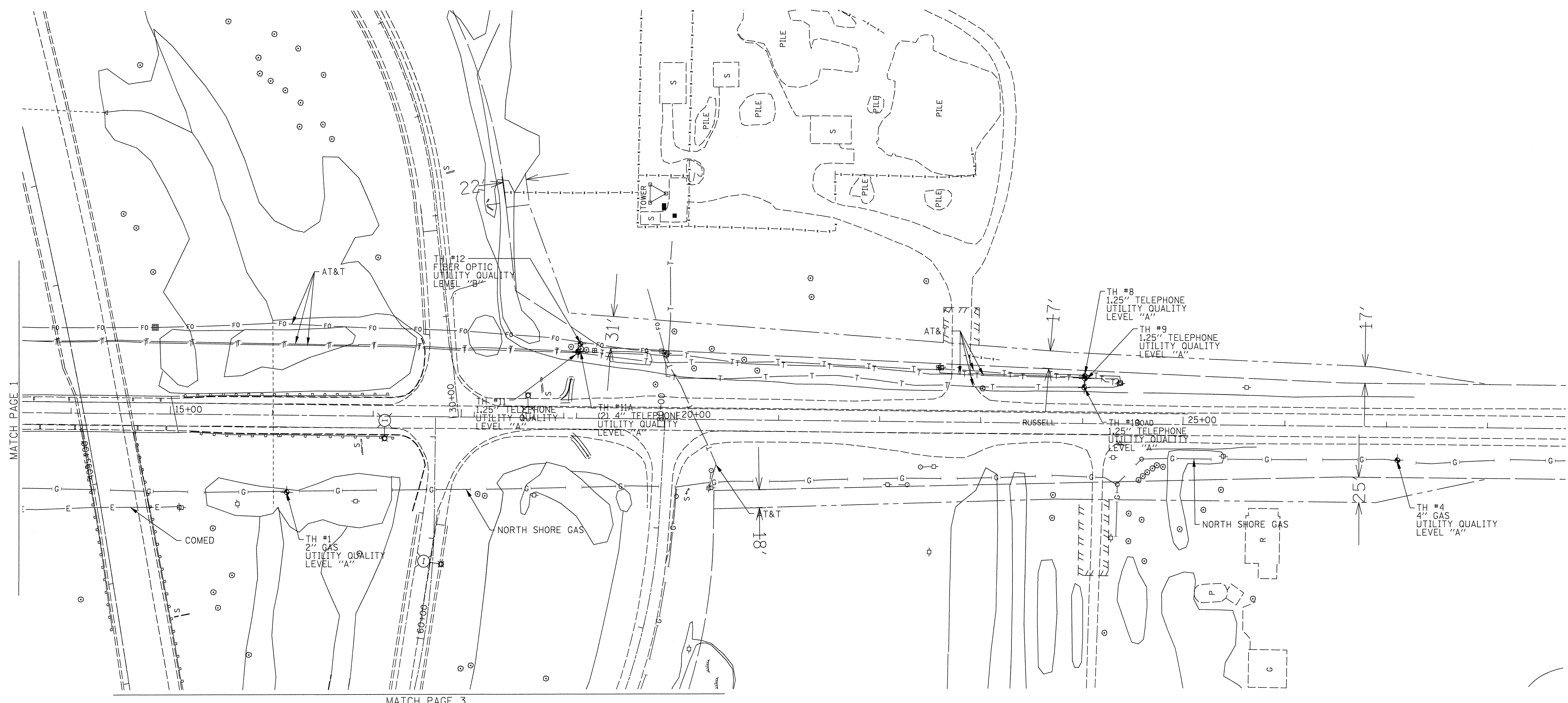
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/Test Holes not Visually Verified
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	EG	REVISED	10/10/11 TH#1-15 ADDED
DRAWN	KLC	REVISED	
CHECKED	KFS	REVISED	
DATE	8/23/11	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Russell Road at I-94
Wadworth, IL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	49-1(HB&HB-1R)	Lake	225	69
FED. ROAD DIST. NO.			ILLINOIS IDOT Project No.	Contract No. 60L76



— A — A —	AERIAL UTILITY UNKNOWN
— CTV — CTV —	CABLE TV
— T — T —	TELEPHONE
— G — G —	GAS
— E — E —	ELECTRIC
— W — W —	WATER
— FO — FO —	FIBER OPTIC
— S — S —	SEWER
⊙	TBE TEST HOLE

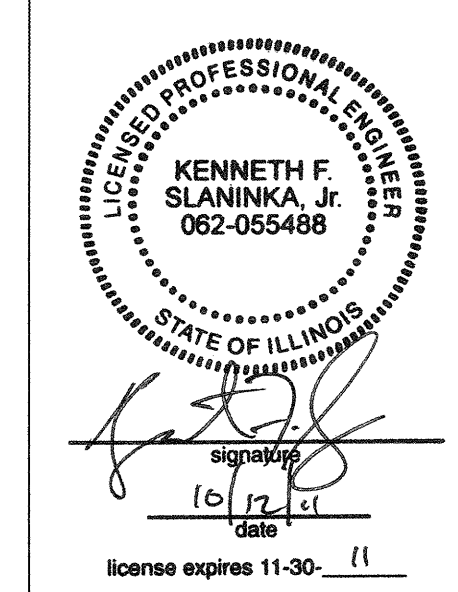
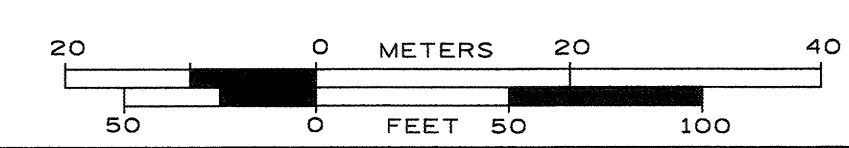
UTILITY OWNERS	
COMED	= ELECTRIC
AT&T	= TELEPHONE
AT&T	= FIBER OPTIC
ADESTA	= FIBER OPTIC
NORTH SHORE	= GAS

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's SUE field investigation was performed 8/03/11 through 8/18/11. Changes to utilities after 8/18/11 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

Cardno TBE's SUE Quality Level "A" field investigation was performed 9/21/11 through 10/04/11.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

PLEASE SEE THE VERIFIED UTILITY MATRIX FOR TEST HOLE DEPTH INFORMATION.



TBE Job No. IL09510445, 454
SUE Plan Page: 2 of 4

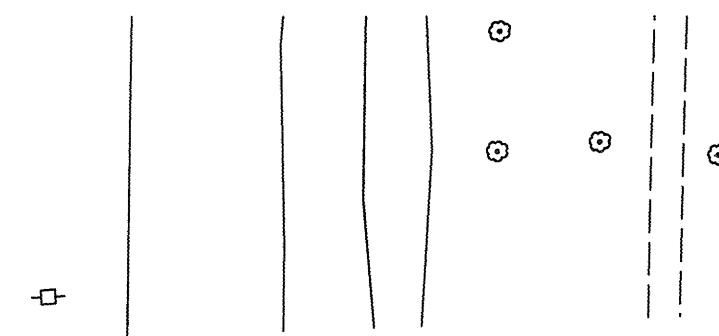
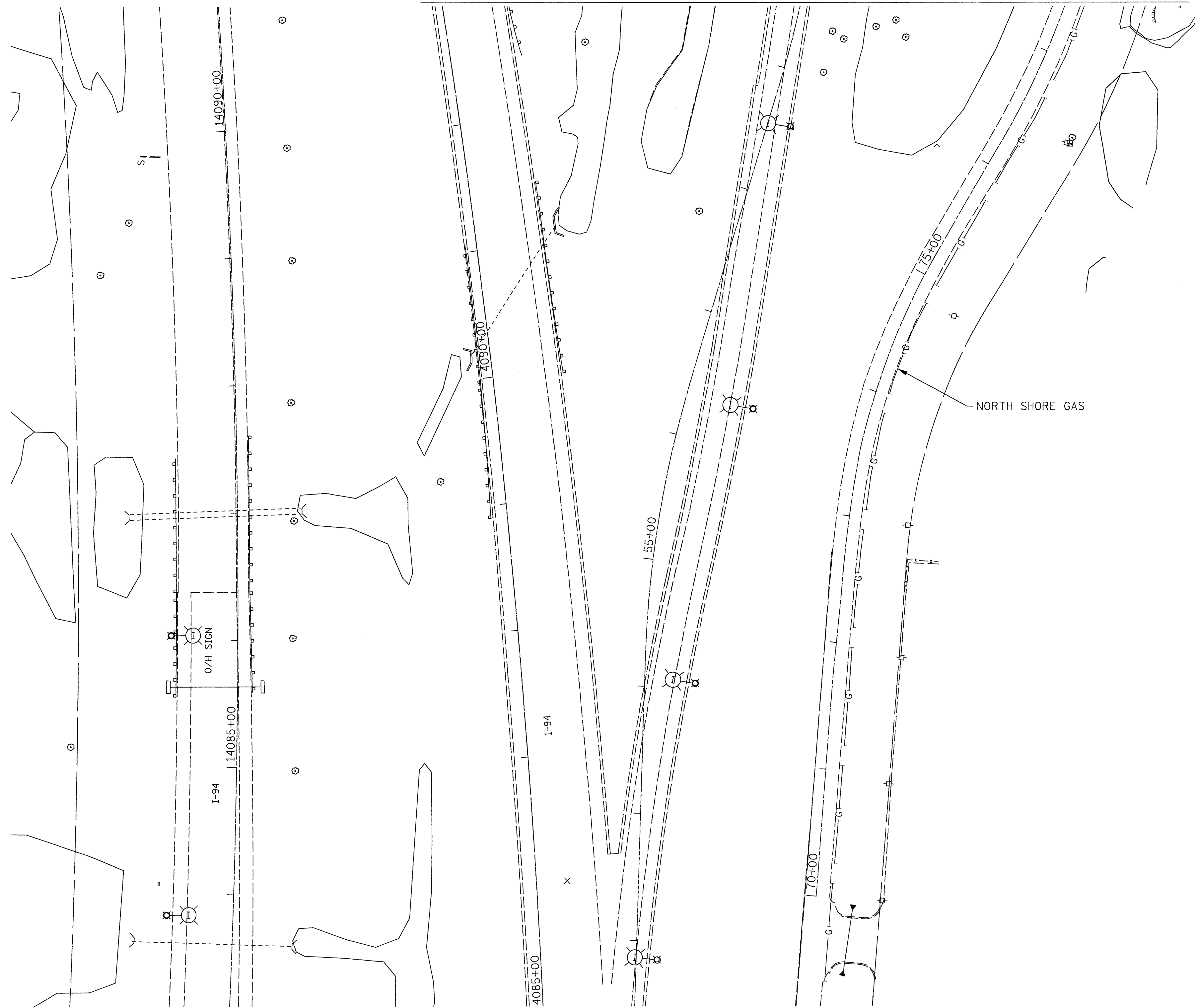
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/Test Holes not Visually Verified
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	EG	REVISED	10/10/11 TH#1-15 ADDED
DRAWN	KLC	REVISED	
CHECKED	KFS	REVISED	
DATE	8/23/11	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Russell Road at I-94
Wadworth, IL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	49-1(HB&HB-1)R	Lake	225	70
FED. ROAD DIST. NO.			ILLINOIS IDOT Project No.	Contract No. 60L76

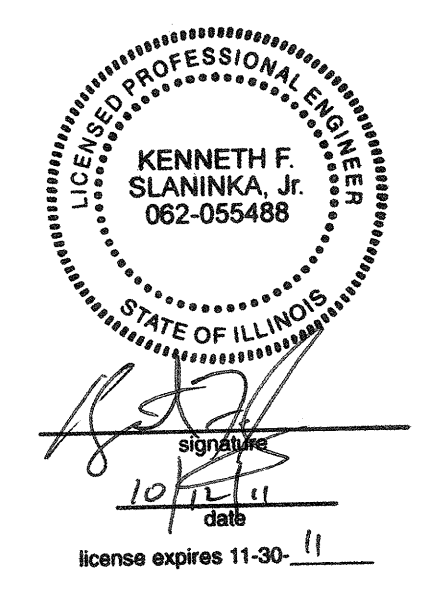


— A — A —	AERIAL UTILITY
— CTV — CTV —	CABLE TV
— T — T —	TELEPHONE
— G — G —	GAS
— E — E —	ELECTRIC
— W — W —	WATER
— FO — FO —	FIBER OPTIC
— S — S —	SEWER
⊙	TBE TEST HOLE

UTILITY OWNERS	
COMED =	ELECTRIC
AT&T =	TELEPHONE
AT&T =	FIBER OPTIC
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NORTH SHORE =	GAS

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ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

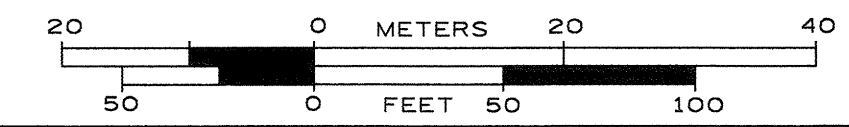


Utility Quality Level "A": Test Hole
 Utility Quality Level "B": Designating
 Utility Quality Level "C": Research with Survey
 Utility Quality Level "D": Records Research

DESIGNED	EG	REVISED	
DRAWN	KLC	REVISED	
CHECKED	KFS	REVISED	
DATE	8/23/11	REVISED	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

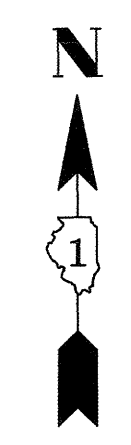
Russell Road at I-94
 Wadworth, IL



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	49-1(HB&HB-1)R	Lake	225	71
FED. ROAD DIST. NO.			ILLINOIS IDOT Project No.	

TBE Job No. IL09510445
 SUE Plan Page: 3 of 4

Contract No. 60L76



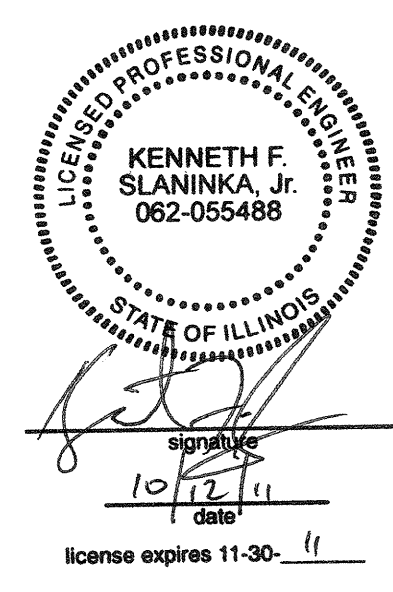
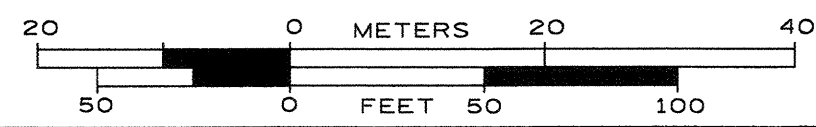
MATCH PAGE 1

— A —	A	AERIAL UTILITY
— CTV —	CTV	CABLE TV
— T —	T	TELEPHONE
— G —	G	GAS
— E —	E	ELECTRIC
— W —	W	WATER
— FO —	FO	FIBER OPTIC
—) —)	SEWER
⊕		TBE TEST HOLE

UTILITY OWNERS	
COMED =	ELECTRIC
AT&T =	TELEPHONE
AT&T =	FIBER OPTIC
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ALL UTILITIES SHOWN QUALITY LEVEL "B"
UNLESS NOTED OTHERWISE.



TBE Job No. IL09510445
SUE Plan Page: 4 of 4

Utility Quality Level "A" : Test Hole
Utility Quality Level "B" : Designating
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	EG	REVISED
DRAWN	KLC	REVISED
CHECKED	KFS	REVISED
DATE	8/23/11	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Russell Road at I-94
Wadworth, IL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	49-1(HB&HB-1)R	LaKe	225	72
Contract No. 60L76				
FED. ROAD DIST. NO.	ILLINOIS	IDOT Project No.		

SIGNING SCHEDULE			EXISTING PANEL DIMENSIONS		PROPOSED PANEL DIMENSIONS		REMOVE SIGN PANEL - TYPE 1	REMOVE SIGN PANEL - TYPE 3	REMOVE SIGN PANEL ASSEMBLY - TYPE A	REMOVE SIGN PANEL ASSEMBLY - TYPE B	SIGN PANEL - TYPE 1	SIGN PANEL - TYPE 2	SIGN PANEL - TYPE 3	WOOD SIGN SUPPORT (FOOT)	TELESCOPING STEEL SIGN SUPPORT (FOOT)	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY (POUND)	CONCRETE FOUNDATION (CU YD)	REINFORCEMENT BARS (POUND)	REMOVE GROUND MOUNTED SIGN SUPPORT (EACH)	REMOVE CONCRETE FOUNDATION - GROUND MOUNT (EACH)		
SIGN NUMBER	STATION	PANEL LEGEND / DESCRIPTION	WIDTH (FT)	HEIGHT (FT)	WIDTH (FT)	HEIGHT (FT)	(SQ FT)	(SQ FT)	(EACH)	(EACH)	(SQ FT)	(SQ FT)	(SQ FT)	(FOOT)	(FOOT)	(POUND)	(CU YD)	(POUND)	(EACH)	(EACH)		
EB-1	1+93	M4-5	2	1	2	1																
		M3-4	2	1	2	1																
		M1-1	2	2	2	2																
		M3-1	2	1	2	1																
		M1-4	2	2	2	2																
		M6-1	1.75	1.25	1.75	1.25																
		M4-5	2	1	2	1					1	BY LCDOT			BY LCDOT							
		M4-15	2	1	2	1																
		M3-2	2	1	2	1																
		M1-1	2	2	2	2																
		M3-3	2	1	2	1																
		M1-4	2	2	2	2																
		M6-1	1.75	1.25	1.75	1.25																
EB-2	2+32	R2-1	2.5	3	2.5	3			1		BY LCDOT		BY LCDOT									
		R7-1	1	1.5																		
EB-3	4+16	M4-5	2	1	2	1																
		M3-4	2	1	2	1																
		M1-1	2	2	2	2																
		M6-3	1.75	1.25	1.75	1.25					1	BY LCDOT		BY LCDOT								
		M3-1	2	1	2	1																
		M1-4	2	2	2	2																
EB-4	7+40	R3-2	2	2					1													
EB-5	9+83	W1-7	4	2					1													
EB-6	11+33	M4-5	2	1	2	1																
		M3-4	2	1	2	1																
		M1-1	2	2	2	2																
		M5-1	1.75	1.25	1.75	1.25					1	BY LCDOT		BY LCDOT								
		M3-1	2	1	2	1																
		M1-4	2	2	2	2																
EB-7	15+70	M5-1	1.75	1.25	1.75	1.25																
EB-8	16+45	R3-1			2	2							BY LCDOT									
EB-9	17+13	R3-2	3	3			9															
		R3-1	3	3			9															
EB-10	17+32	R1-1	2.5	2.5	2.5	2.5				1												
		R5-1	2.5	2.5	2.5	2.5																
		R6-1 LT			3	1																
		R6-1 RT			3	1																
EB-11	17+77	R1-1			2.5	2.5					6.25				17.5							
		R6-1 LT			3	1					3											
		R6-1 RT			3	1					3											
EB-12	18+36	R1-1	2.5	2.5	2.5	2.5				1												
		R5-1	2.5	2.5																		
EB-13	18+40	R5-1			2.5	2.5																
EB-14	19+50	ROAD ENDS			3	3																
		1/2 MILE			2.5	1																
EB-15	19+55	R1-1			2.5	2.5																
		ROAD ENDS	2.5	2.5																		
		1/2 MILE	2	1																		
EB-16	20+20	R1-1	2.5	2.5	2.5	2.5					6.25											
		ROAD ENDS	2.5	2.5																		
		1/2 MILE	2	1																		
EB-17	20+22	ROAD ENDS			3	3																
		1/2 MILE			2.5	1																
EB-18	23+81	M3-2	2	1	2	1																
		M1-6	2	2	2	2																
		RUSSELL RD	2.5	0.67	2.5	0.67				1	BY LCDOT			BY LCDOT								
EB-19	25+46	ADOPT-A-HIGHWAY	3	3.5	3	3.5																
		CLEANUP CREW AHEAD (HINGED)	3	3	3	3																
EB-20	28+78	R2-1	2	2.5	2	2.5																

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING SCHEDULE

SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	74
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60L76	

S:\1101\95-CADD\60L76-Russell Rdwy\60L76-Signing\60L76-shr-pmkSCH.dgn

SIGNING SCHEDULE			EXISTING PANEL DIMENSIONS		PROPOSED PANEL DIMENSIONS		REMOVE SIGN PANEL - TYPE 1	REMOVE SIGN PANEL - TYPE 3	REMOVE SIGN PANEL ASSEMBLY - TYPE A	REMOVE SIGN PANEL ASSEMBLY - TYPE B	SIGN PANEL - TYPE 1	SIGN PANEL - TYPE 2	SIGN PANEL - TYPE 3	WOOD SIGN SUPPORT	TELESCOPING STEEL SIGN SUPPORT	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	CONCRETE FOUNDATION	REINFORCEMENT BARS	REMOVE GROUND MOUNTED SIGN SUPPORT	REMOVE CONCRETE FOUNDATION - GROUND MOUNT				
SIGN NUMBER	STATION	PANEL LEGEND / DESCRIPTION	WIDTH (FT)	HEIGHT (FT)	WIDTH (FT)	HEIGHT (FT)	(SQ FT)	(SQ FT)	(EACH)	(EACH)	(SQ FT)	(SQ FT)	(SQ FT)	(FOOT)	(FOOT)	(POUND)	(CU YD)	(POUND)	(EACH)	(EACH)				
WB-1	0+62	R1-1	3	3	3	3				1	9			16.5										
		R1-I100	2.5	1.5	2.5	1.5					3.75													
WB-2	0+72	RUSSELL RD			3	1								BY LCDOT										
		OLD SKOKIE RD			4	1																		
WB-3	0+88	M4-5	2	1	2	1																		
		M4-15	2	1	2	1																		
		M3-2	2	1	2	1																		
		M1-1	2	2	2	2																		
		M6-1	1.75	1.25	1.75	1.25				1		BY LCDOT			BY LCDOT									
		M3-3	2	1	2	1																		
		M1-4	2	2	2	2																		
		M6-1	1.75	1.25	1.75	1.25																		
		RENAISSANCE FAIR	4	2	4	2																		
WB-4	4+16	M4-5	2	1	2	1																		
		M4-15	2	1	2	1																		
		M3-2	2	1	2	1																		
		M1-1	2	2	2	2																		
		M5-1	1.75	1.25	1.75	1.25				1		BY LCDOT			BY LCDOT									
		M3-3	2	1	2	1																		
		M1-4	2	2	2	2																		
		M5-1	1.75	1.25	1.75	1.25																		
		R7-1	1	1.5																				
WB-5	6+97	W3-1	2.5	2.5	2.5	2.5			1		BY LCDOT			BY LCDOT										
		OLD SKOKIE RD	2	1	2	0.67																		
WB-6	8+20	R5-1			2.5	2.5					6.25		17.4											
WB-7	8+24	R1-1	2.5	2.5	2.5	2.5				1	6.25			16.6										
		R5-1	2.5	2.5																				
WB-8	8+77	R1-1	2.5	2.5	2.5	2.5			1															
		R6-1 LT			3	1									BY LCDOT									
WB-9	9+32	R6-1 RT			3	1																		
		R5-1			2.5	2.5																		
WB-10	9+39	R6-1 LT			3	1																		
		R6-1 RT			3	1																		
WB-11	11+40	R3-2	2	2					1															
		R3-1	2	2																				
WB-12	15+59	R2-1	2	2.5	2	2.5			1		BY LCDOT			BY LCDOT										
		R3-1	2	2	2	2																		
WB-13	16+34	M4-5	2	1	2	1																		
		M4-15	2	1	2	1																		
		M3-2	2	1	2	1																		
		M1-1	2	2	2	2																		
		M6-3	1.75	1.25	1.75	1.25				1		BY LCDOT			BY LCDOT									
		M3-3	2	1	2	1																		
		M1-4	2	2	2	2																		
		M6-3	1.75	1.25	1.75	1.25																		
WB-14	18+53	R3-2	3	3			9																	
WB-15	18+97	I-94 WEST/US-41 NORTH/MILWAUKEE, ARROW	14.5	7	15	7.5		101.5				112.5			1097	2.54	196	2	2					
WB-16	19+99	W1-7	4	2	4	2			1		BY LCDOT			BY LCDOT										
		M2-1	1.75	1.25	1.75	1.25																		
WB-17	21+92	M1-1	2	2	2	2				1	BY LCDOT			BY LCDOT										
		M1-4	2	2	2	2																		
		M4-6	2	1																				
WB-18	23+21	M1-6	2	2	2	2			1		BY LCDOT			BY LCDOT										
		RUSSELL RD	2.5	0.67	2.5	0.67																		
		M3-4			2	1																		
WB-19	28+78	R2-1			2	2.5							BY LCDOT											

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGNING SCHEDULE

SCALE: SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	75
CONTRACT NO. 60L76			ILLINOIS FED. AID PROJECT	

S:\1101\95-CADD\60L76-Russell Rdwy\60L76-Sheets\0160L76-shr-pmkSCH.dgn

SIGNING SCHEDULE			EXISTING PANEL DIMENSIONS		PROPOSED PANEL DIMENSIONS		REMOVE SIGN PANEL - TYPE 1	REMOVE SIGN PANEL - TYPE 3	REMOVE SIGN PANEL ASSEMBLY - TYPE A	REMOVE SIGN PANEL ASSEMBLY - TYPE B	SIGN PANEL - TYPE 1	SIGN PANEL - TYPE 2	SIGN PANEL - TYPE 3	WOOD SIGN SUPPORT (FOOT)	TELESCOPING STEEL SIGN SUPPORT (FOOT)	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY (POUND)	CONCRETE FOUNDATION (CU YD)	REINFORCEMENT BARS (POUND)	REMOVE GROUND MOUNTED SIGN SUPPORT (EACH)	REMOVE CONCRETE FOUNDATION - GROUND MOUNT (EACH)
SIGN NUMBER	STATION	PANEL LEGEND / DESCRIPTION	WIDTH (FT)	HEIGHT (FT)	WIDTH (FT)	HEIGHT (FT)	(SQ FT)	(SQ FT)	(EACH)	(EACH)	(SQ FT)	(SQ FT)	(SQ FT)	(FOOT)	(FOOT)	(POUND)	(CU YD)	(POUND)	(EACH)	(EACH)
MEDIAN-1	12+89	WILDFLOWERS OF ILLINOIS	3	3																
		MIDWEST GENERATION	3	1					1											
BIKE-1	17+24	R1-1			1.5	1.5					BY LCDOT			BY LCDOT						
BIKE-2	18+53	R1-1			1.5	1.5					BY LCDOT			BY LCDOT						
BIKE-3	28+22	M4-6			1	0.5														
		D11-1			2	1.5					BY LCDOT			BY LCDOT						
BIKE-4	29+22	OM4-1			1.5	1.5					BY LCDOT			BY LCDOT						
BIKE-5	29+22	OM4-1			1.5	1.5					BY LCDOT			BY LCDOT						
BIKE-6	29+22	OM4-1			1.5	1.5					BY LCDOT			BY LCDOT						
FRONT-1	19+38	R12-1	2	2.5	2	2.5		1		5			15.6							
RAMP A-1	RAMP A 53+67	E5-1A			6.5	5						32.5	18.9							
		W3-1			2.5	2.5				6.25										
RAMP A-2	RAMP A 56+50	R5-1A	3	2	3	2		1		6			16.1							
		W3-1			2.5	2.5				6.25										
RAMP A-3	RAMP A 56+50	R5-1A	3	2	3	2		1		6			15.5							
RAMP B-1	RAMP B 32+13	R5-I100			2.5	3				7.5			16.9							
RAMP B-2	RAMP B 34+28	WEIGH STATION	7	3	7	3			1		21		39.3							
RAMP C-1	RAMP C 54+59	W3-1			2.5	2.5				6.25			16.3							
		R5-1A	3	2	3	2		1		6										
		W3-1			2.5	2.5				6.25										
RAMP C-2	RAMP C 54+59	R5-1A	3	2	3	2			1	6			15.7							
		WINTHROP HARBOR	5	2.5																
RAMP C-3	RAMP C 56+59	WINTHROP HARBOR			5	2.5					12.5		15							
TOTAL							27	203	16	16	147	33.5	257.5	328.1	17.5	2212	5	392	4	4

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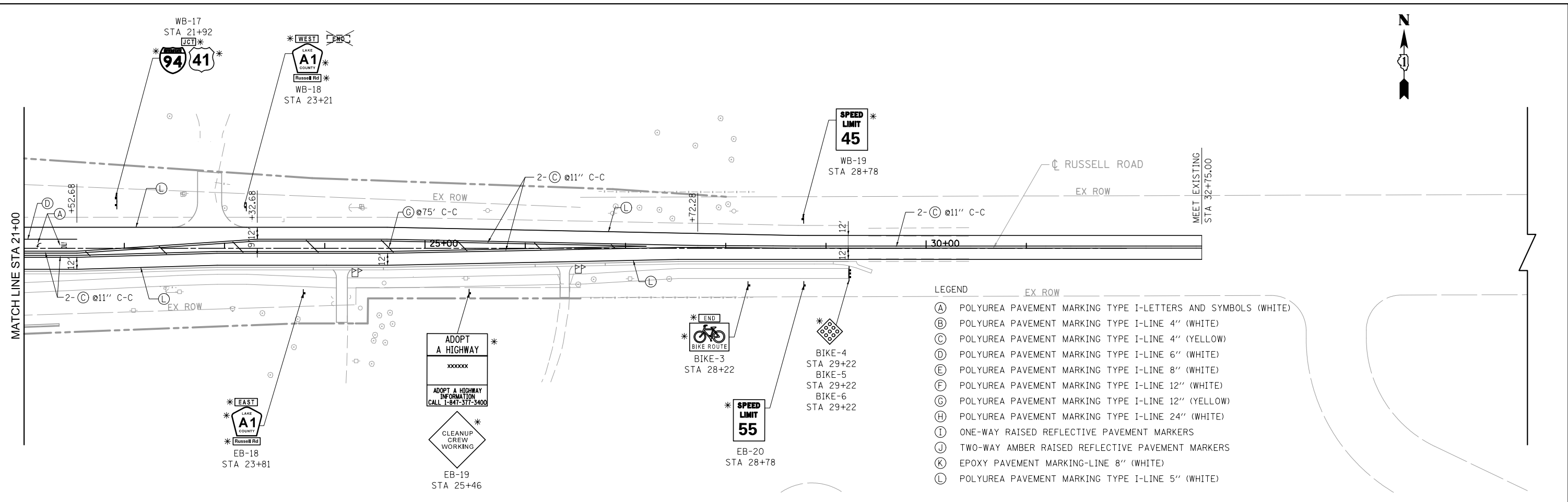
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGNING SCHEDULE

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

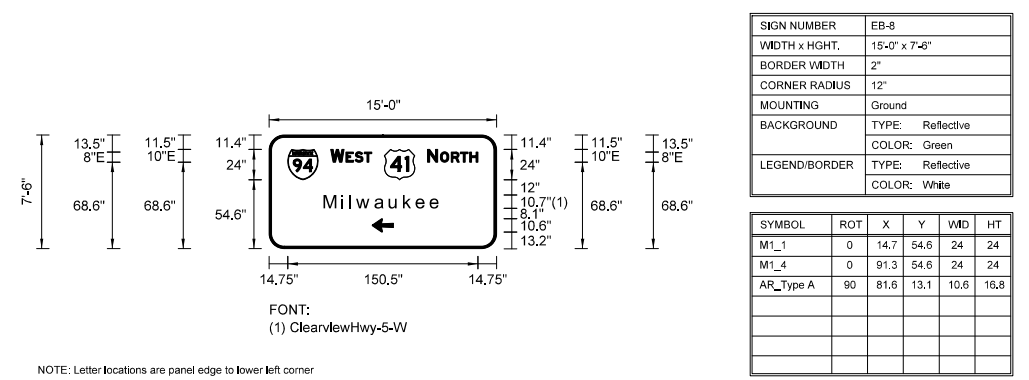
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	76
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

S:\1101\95-CADD\60L76-Russell Rdwy\60L76-Sheets\0160L76-shr-pmkSCH.dgn



- LEGEND**
- (A) POLYUREA PAVEMENT MARKING TYPE I-LETTERS AND SYMBOLS (WHITE)
 - (B) POLYUREA PAVEMENT MARKING TYPE I-LINE 4" (WHITE)
 - (C) POLYUREA PAVEMENT MARKING TYPE I-LINE 4" (YELLOW)
 - (D) POLYUREA PAVEMENT MARKING TYPE I-LINE 6" (WHITE)
 - (E) POLYUREA PAVEMENT MARKING TYPE I-LINE 8" (WHITE)
 - (F) POLYUREA PAVEMENT MARKING TYPE I-LINE 12" (WHITE)
 - (G) POLYUREA PAVEMENT MARKING TYPE I-LINE 12" (YELLOW)
 - (H) POLYUREA PAVEMENT MARKING TYPE I-LINE 24" (WHITE)
 - (I) ONE-WAY RAISED REFLECTIVE PAVEMENT MARKERS
 - (J) TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS
 - (K) EPOXY PAVEMENT MARKING-LINE 8" (WHITE)
 - (L) POLYUREA PAVEMENT MARKING TYPE I-LINE 5" (WHITE)

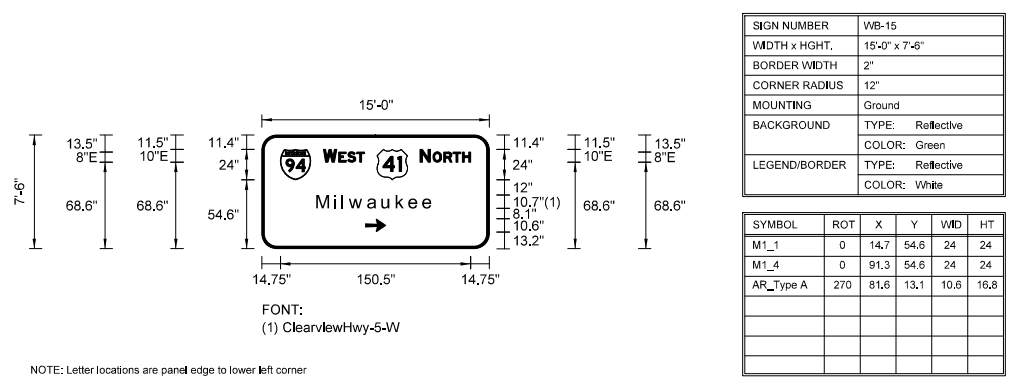
SIGN PANEL DETAILS



NOTE: Letter locations are panel edge to lower left corner

LETTER POSITIONS (X) IN INCHES										LENGTH	SERIES/SIZE
W	E	S	T							32.5	E 2000
48.8	60.8	67.9	75.3								10.8
N	O	R	H							40	E 2000
125.3	135.5	144.1	151.4	158.8							10.8
M	I	I	w	a	u	k	e	e		91.5	ClearviewHwy-5-W
44.2	58	64.3	69.7	84.3	95.6	106.9	116.9	127.9			10.7/8.7

SIGN NO. EB-8 STA 16+45



NOTE: Letter locations are panel edge to lower left corner

LETTER POSITIONS (X) IN INCHES										LENGTH	SERIES/SIZE
W	E	S	T							32.5	E 2000
48.8	60.8	67.9	75.3								10.8
N	O	R	H							40	E 2000
125.3	135.5	144.1	151.4	158.8							10.8
M	I	I	w	a	u	k	e	e		91.5	ClearviewHwy-5-W
44.2	58	64.3	69.7	84.3	95.6	106.9	116.9	127.9			10.7/8.7

SIGN NO. WB-15 STA 18+97

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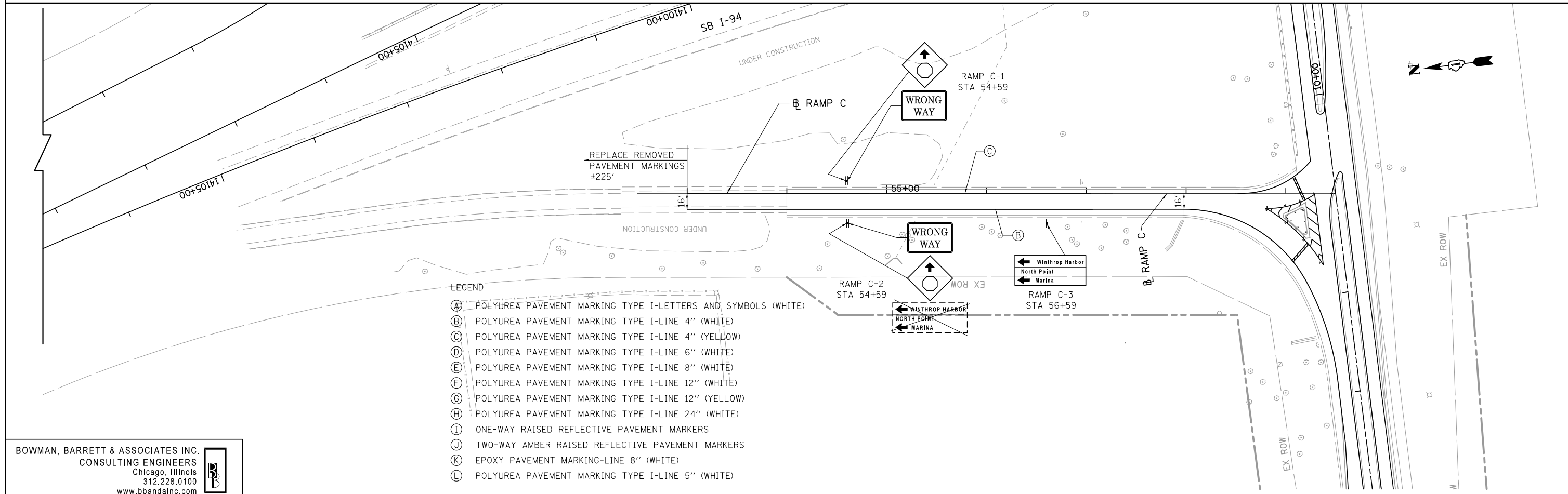
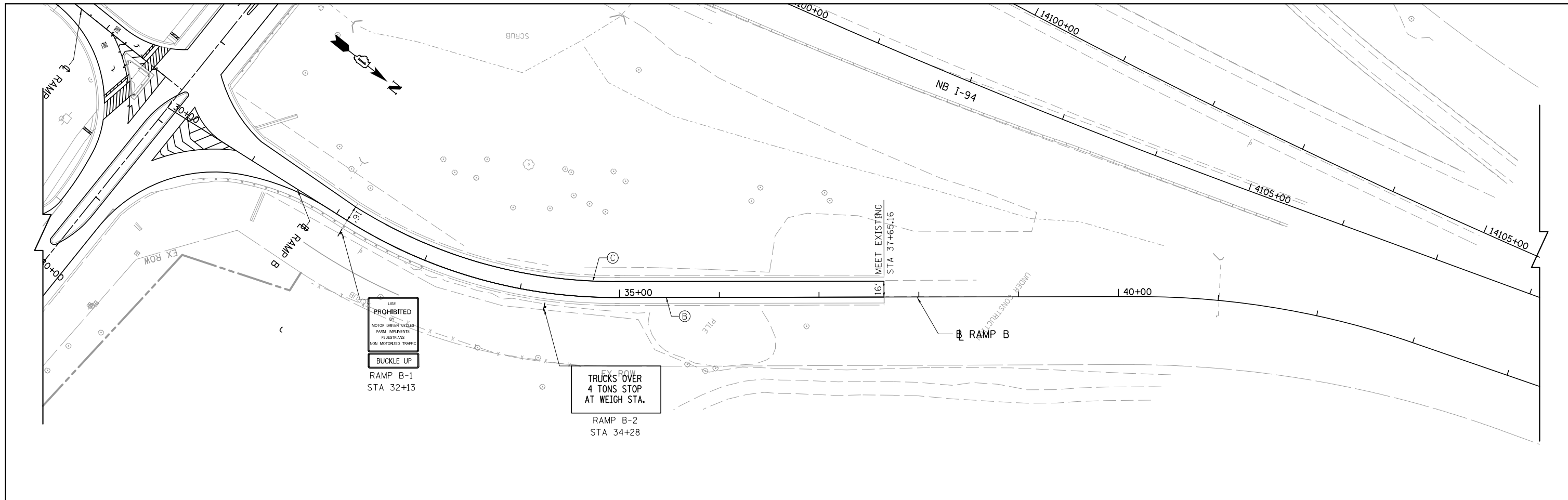
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 DEPARTMENT OF TRANSPORTATION

PROPOSED PAVEMENT MARKINGS AND SIGNAGE FOR RUSSELL ROAD
 SCALE: 1"=50' SHEET NO. 2 OF 6 SHEETS STA. 21+00.00 TO STA. 32+75.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	78
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

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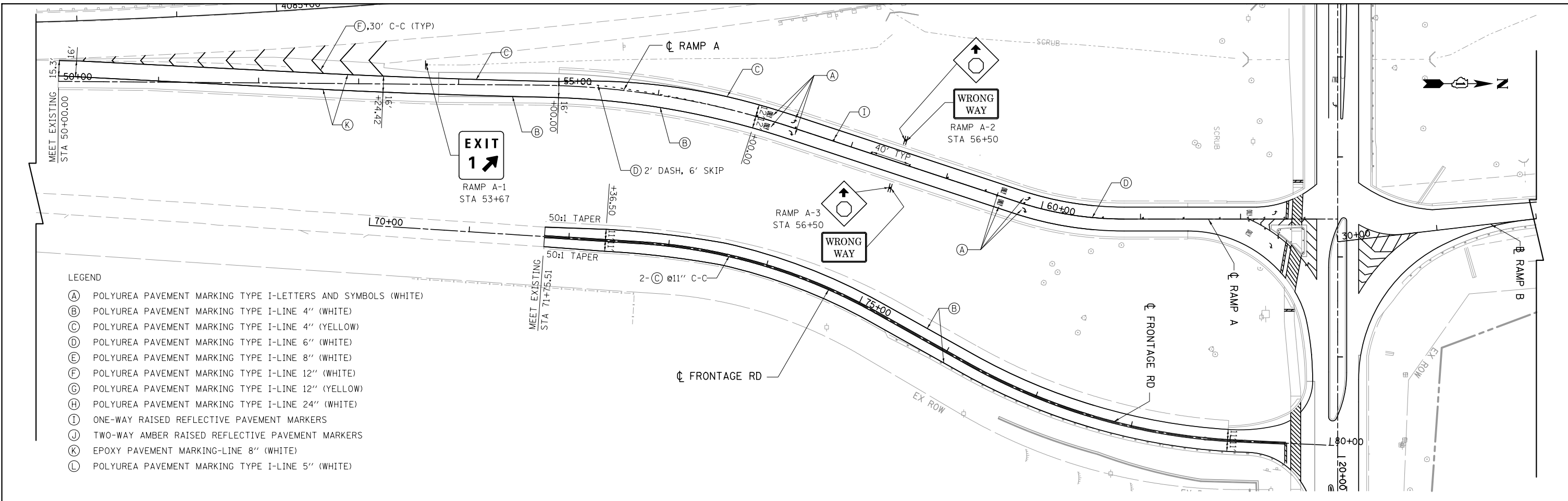
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED PAVEMENT MARKINGS AND SIGNAGE FOR
 RUSSELL ROAD RAMP TO NB I-94
 AND SB I-94 RAMP TO RUSSELL ROAD**

SCALE: 1"=50' SHEET NO. 3 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	79
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

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- LEGEND**
- (A) POLYUREA PAVEMENT MARKING TYPE I-LETTERS AND SYMBOLS (WHITE)
 - (B) POLYUREA PAVEMENT MARKING TYPE I-LINE 4" (WHITE)
 - (C) POLYUREA PAVEMENT MARKING TYPE I-LINE 4" (YELLOW)
 - (D) POLYUREA PAVEMENT MARKING TYPE I-LINE 6" (WHITE)
 - (E) POLYUREA PAVEMENT MARKING TYPE I-LINE 8" (WHITE)
 - (F) POLYUREA PAVEMENT MARKING TYPE I-LINE 12" (WHITE)
 - (G) POLYUREA PAVEMENT MARKING TYPE I-LINE 12" (YELLOW)
 - (H) POLYUREA PAVEMENT MARKING TYPE I-LINE 24" (WHITE)
 - (I) ONE-WAY RAISED REFLECTIVE PAVEMENT MARKERS
 - (J) TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS
 - (K) EPOXY PAVEMENT MARKING-LINE 8" (WHITE)
 - (L) POLYUREA PAVEMENT MARKING TYPE I-LINE 5" (WHITE)

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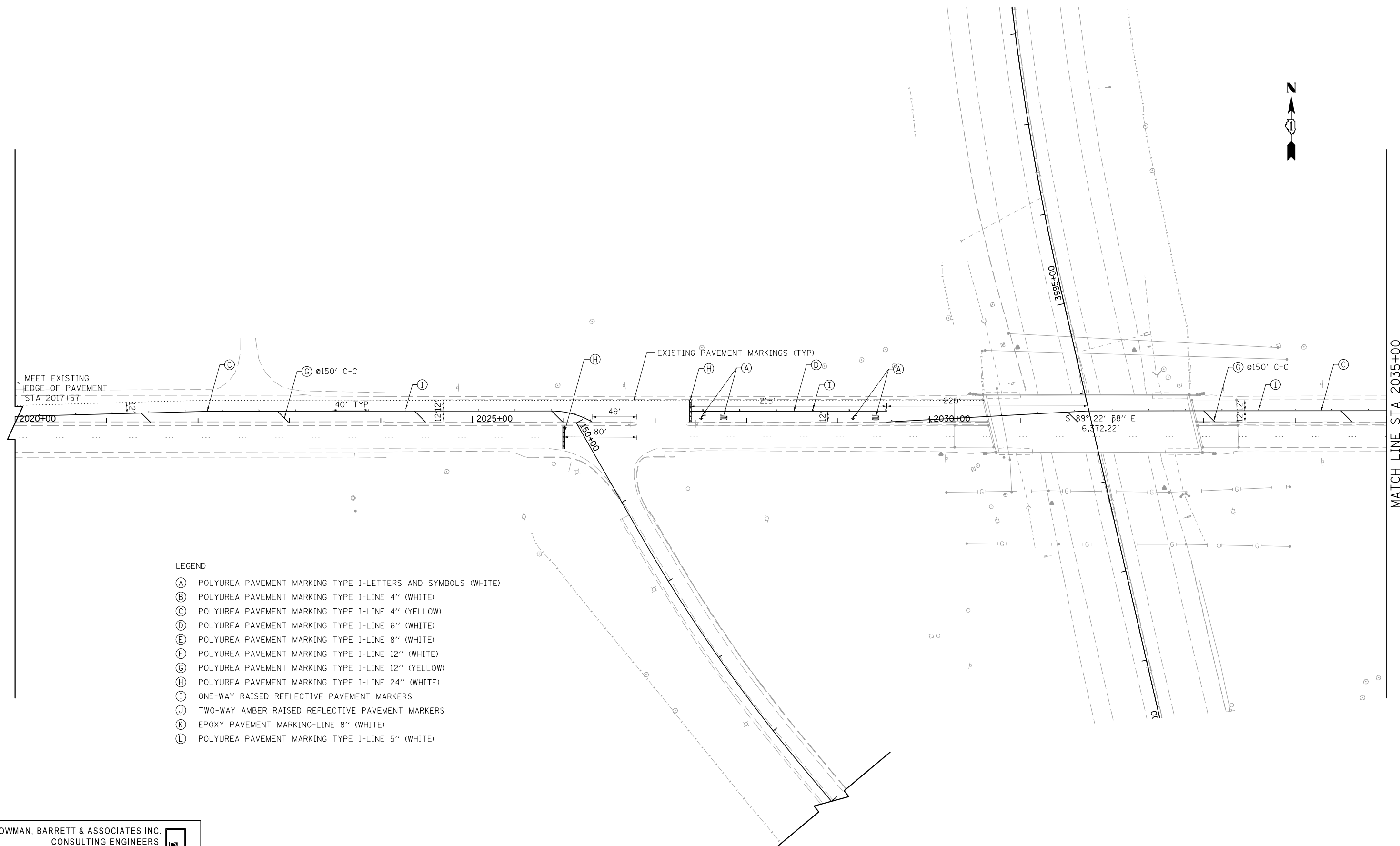
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 DEPARTMENT OF TRANSPORTATION**

**PROPOSED PAVEMENT MARKINGS AND SIGNAGE FOR
 NB I-94 RAMP TO RUSSELL ROAD**

SCALE: 1"=50' SHEET NO. 4 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	80
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

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LEGEND

- (A) POLYUREA PAVEMENT MARKING TYPE I-LETTERS AND SYMBOLS (WHITE)
- (B) POLYUREA PAVEMENT MARKING TYPE I-LINE 4" (WHITE)
- (C) POLYUREA PAVEMENT MARKING TYPE I-LINE 4" (YELLOW)
- (D) POLYUREA PAVEMENT MARKING TYPE I-LINE 6" (WHITE)
- (E) POLYUREA PAVEMENT MARKING TYPE I-LINE 8" (WHITE)
- (F) POLYUREA PAVEMENT MARKING TYPE I-LINE 12" (WHITE)
- (G) POLYUREA PAVEMENT MARKING TYPE I-LINE 12" (YELLOW)
- (H) POLYUREA PAVEMENT MARKING TYPE I-LINE 24" (WHITE)
- (I) ONE-WAY RAISED REFLECTIVE PAVEMENT MARKERS
- (J) TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS
- (K) EPOXY PAVEMENT MARKING-LINE 8" (WHITE)
- (L) POLYUREA PAVEMENT MARKING TYPE I-LINE 5" (WHITE)

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 DEPARTMENT OF TRANSPORTATION**

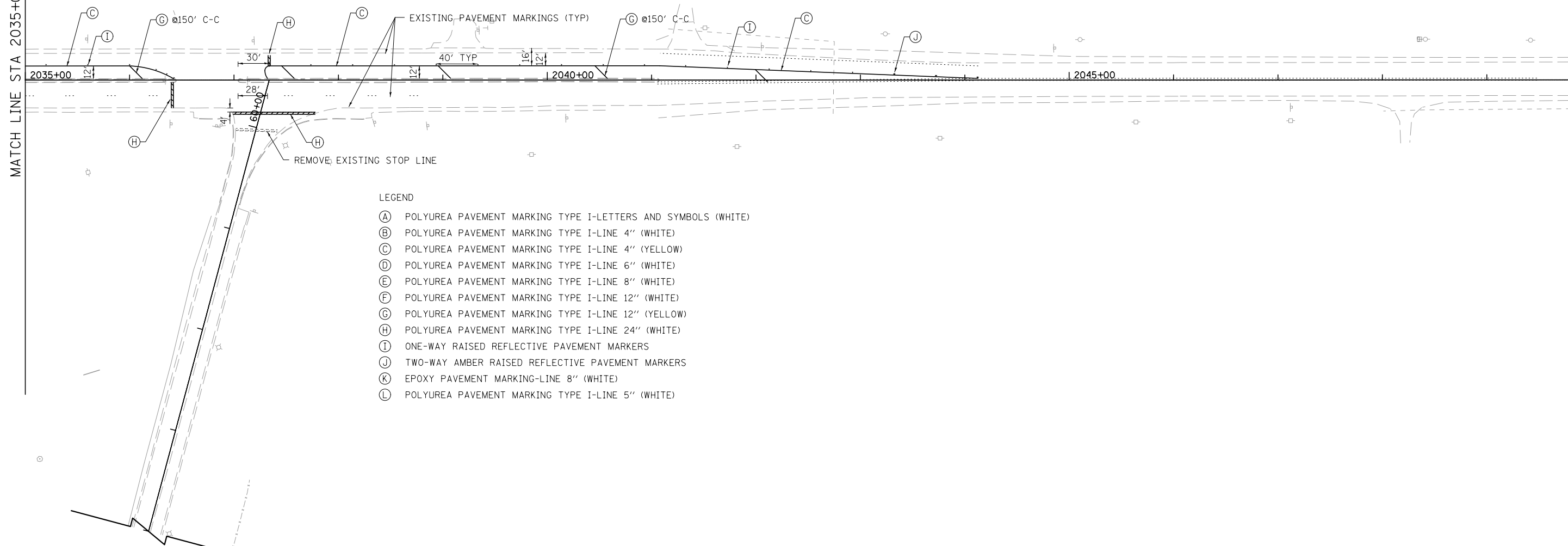
PAVEMENT MARKING PLAN FOR IL RTE 173

SCALE: 1"=50' SHEET NO. 5 OF 6 SHEETS STA. 2020+00.00 TO STA. 2035+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	81
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

MATCH LINE STA 2035+00

MATCH LINE STA 2035+00



LEGEND

- (A) POLYUREA PAVEMENT MARKING TYPE I-LETTERS AND SYMBOLS (WHITE)
- (B) POLYUREA PAVEMENT MARKING TYPE I-LINE 4" (WHITE)
- (C) POLYUREA PAVEMENT MARKING TYPE I-LINE 4" (YELLOW)
- (D) POLYUREA PAVEMENT MARKING TYPE I-LINE 6" (WHITE)
- (E) POLYUREA PAVEMENT MARKING TYPE I-LINE 8" (WHITE)
- (F) POLYUREA PAVEMENT MARKING TYPE I-LINE 12" (WHITE)
- (G) POLYUREA PAVEMENT MARKING TYPE I-LINE 12" (YELLOW)
- (H) POLYUREA PAVEMENT MARKING TYPE I-LINE 24" (WHITE)
- (I) ONE-WAY RAISED REFLECTIVE PAVEMENT MARKERS
- (J) TWO-WAY AMBER RAISED REFLECTIVE PAVEMENT MARKERS
- (K) EPOXY PAVEMENT MARKING-LINE 8" (WHITE)
- (L) POLYUREA PAVEMENT MARKING TYPE I-LINE 5" (WHITE)

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 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN FOR IL RTE 173














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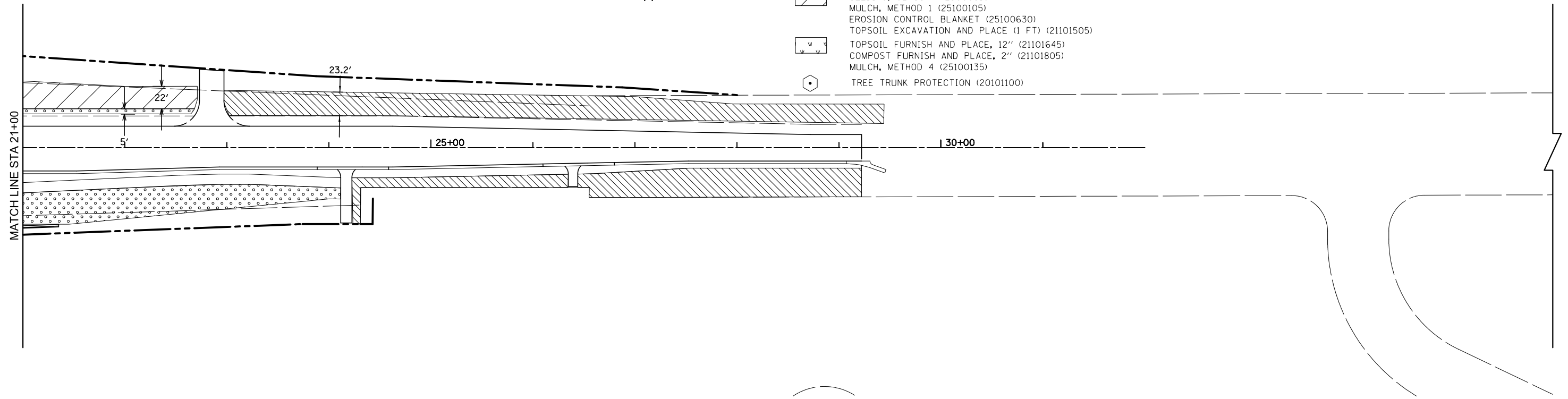
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	82
				CONTRACT NO. 60L76
ILLINOIS FED. AID PROJECT				

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LEGEND

-  SODDING, SALT TOLERANT (25200110)
-  SEEDING, CLASS 2A (25000210)
-  MULCH, METHOD 1 (25100105)
-  EROSION CONTROL BLANKET (25100630)
-  TOPSOIL EXCAVATION AND PLACE (1 FT) (21101505)
-  SEEDING, CLASS 4 (25000310)
-  MULCH, METHOD 1 (25100105)
-  EROSION CONTROL BLANKET (25100630)
-  TOPSOIL EXCAVATION AND PLACE (1 FT) (21101505)
-  TOPSOIL FURNISH AND PLACE, 12" (21101645)
-  COMPOST FURNISH AND PLACE, 2" (21101805)
-  MULCH, METHOD 4 (25100135)
-  TREE TRUNK PROTECTION (20101100)



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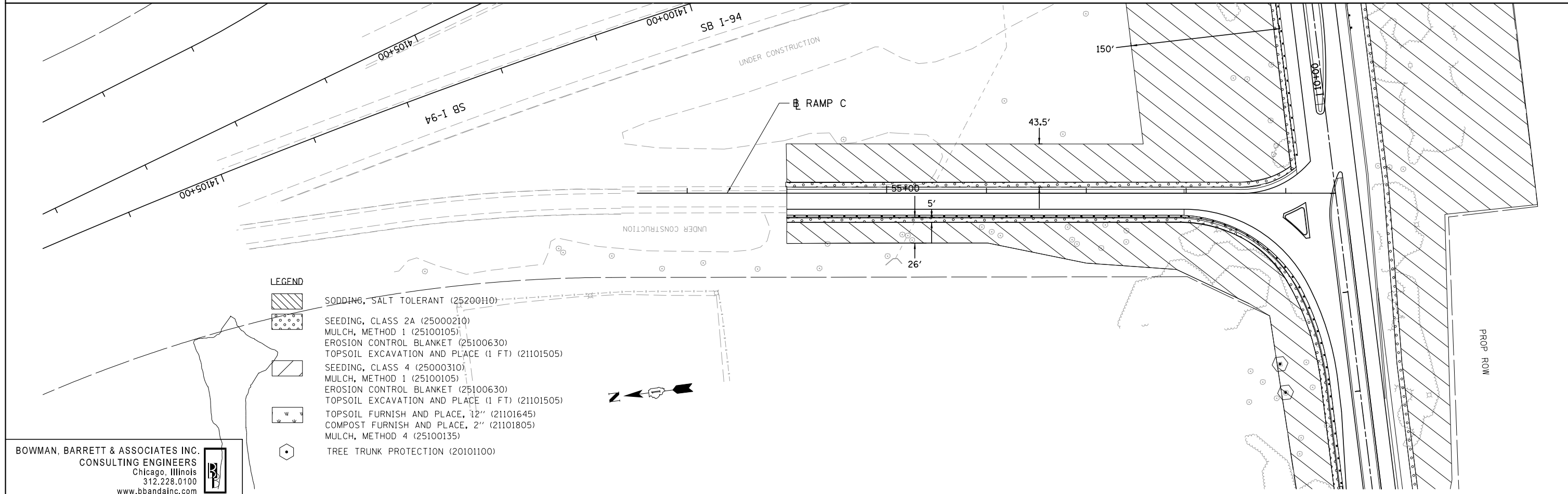
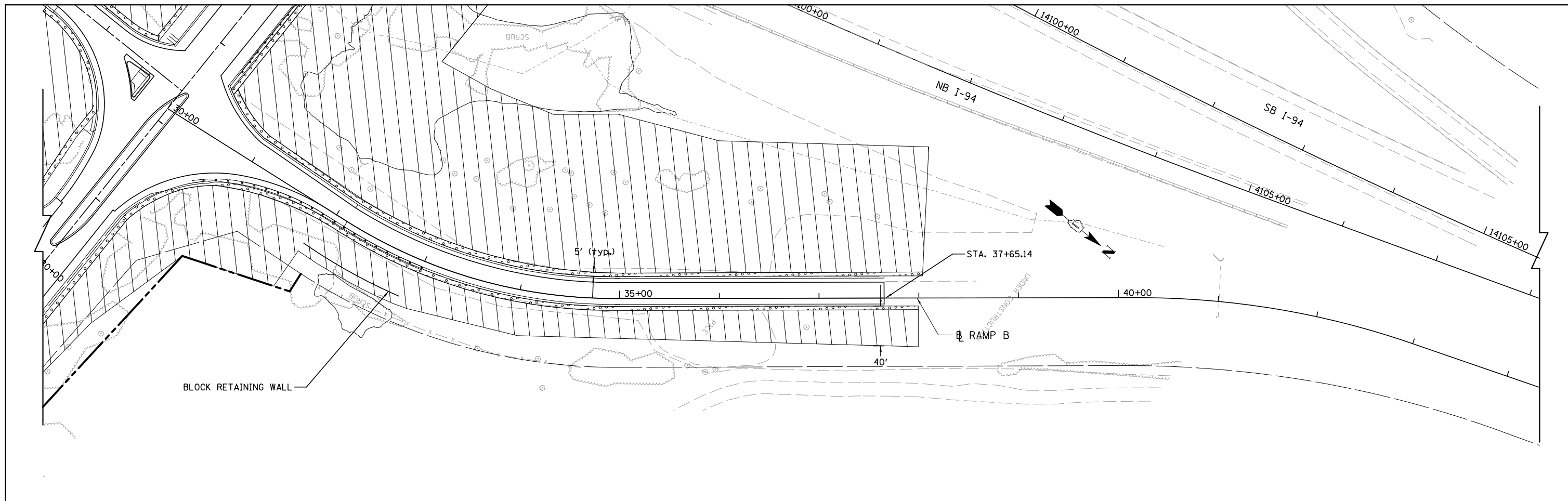
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












STATE OF ILLINOIS
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LANDSCAPING PLAN FOR RUSSELL ROAD

SCALE: 1"=50' SHEET NO. 2 OF 4 SHEETS STA. 21+00.00 TO STA. 29+49.82

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	84
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				



- LEGEND**
-  SODDING, SALT TOLERANT (25200H10)
 -  SEEDING, CLASS 2A (25000210)
 -  MULCH, METHOD 1 (25100105)
 -  EROSION CONTROL BLANKET (25100630)
 -  TOPSOIL EXCAVATION AND PLACE (1 FT) (21101505)
 -  SEEDING, CLASS 4 (25000310)
 -  MULCH, METHOD 1 (25100105)
 -  EROSION CONTROL BLANKET (25100630)
 -  TOPSOIL EXCAVATION AND PLACE (1 FT) (21101505)
 -  TOPSOIL FURNISH AND PLACE, 12" (21101645)
 -  COMPOST FURNISH AND PLACE, 2" (21101805)
 -  MULCH, METHOD 4 (25100135)
 -  TREE TRUNK PROTECTION (20101100)

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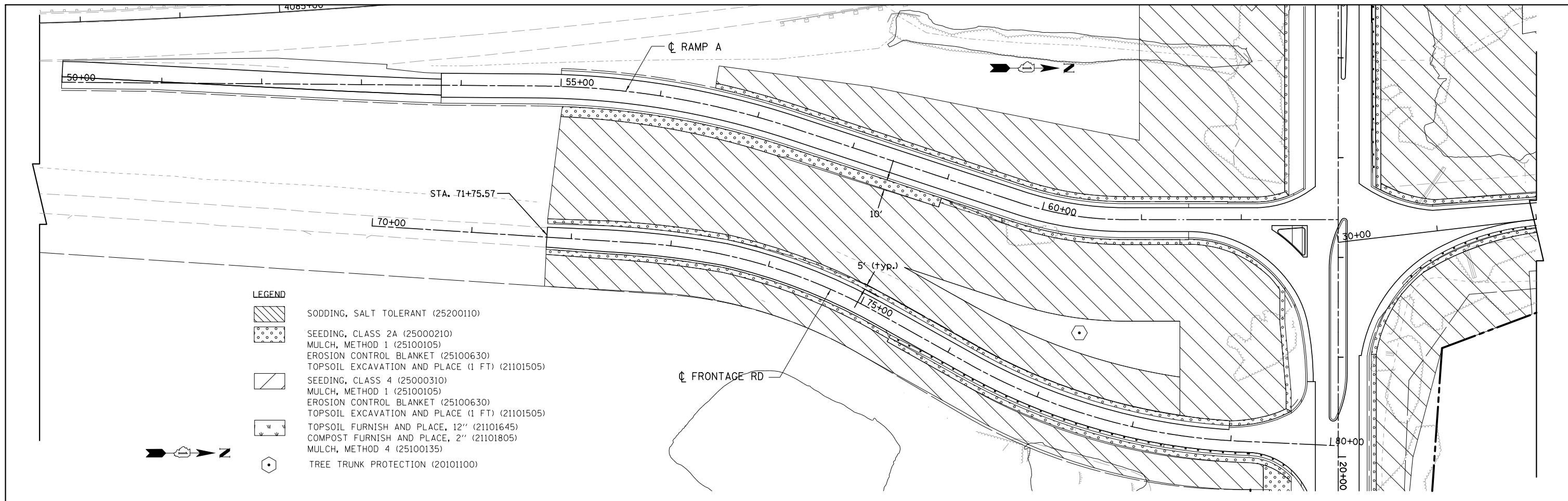
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











**LANDSCAPING PLAN FOR
 RUSSELL ROAD RAMP TO NB I-94
 AND SB I-94 RAMP TO RUSSELL ROAD**

SCALE: 1"=50' SHEET NO. 3 OF 4 SHEETS STA. 21+00.00 TO STA. 29+49.82

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	85
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

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- LEGEND**
-  SODDING, SALT TOLERANT (25200110)
 -  SEEDING, CLASS 2A (25000210)
 -  MULCH, METHOD 1 (25100105)
 -  EROSION CONTROL BLANKET (25100630)
 -  TOPSOIL EXCAVATION AND PLACE (1 FT) (21101505)
 -  SEEDING, CLASS 4 (25000310)
 -  MULCH, METHOD 1 (25100105)
 -  EROSION CONTROL BLANKET (25100630)
 -  TOPSOIL EXCAVATION AND PLACE (1 FT) (21101505)
 -  TOPSOIL FURNISH AND PLACE, 12" (21101645)
 -  COMPOST FURNISH AND PLACE, 2" (21101805)
 -  MULCH, METHOD 4 (25100135)
 -  TREE TRUNK PROTECTION (20101100)

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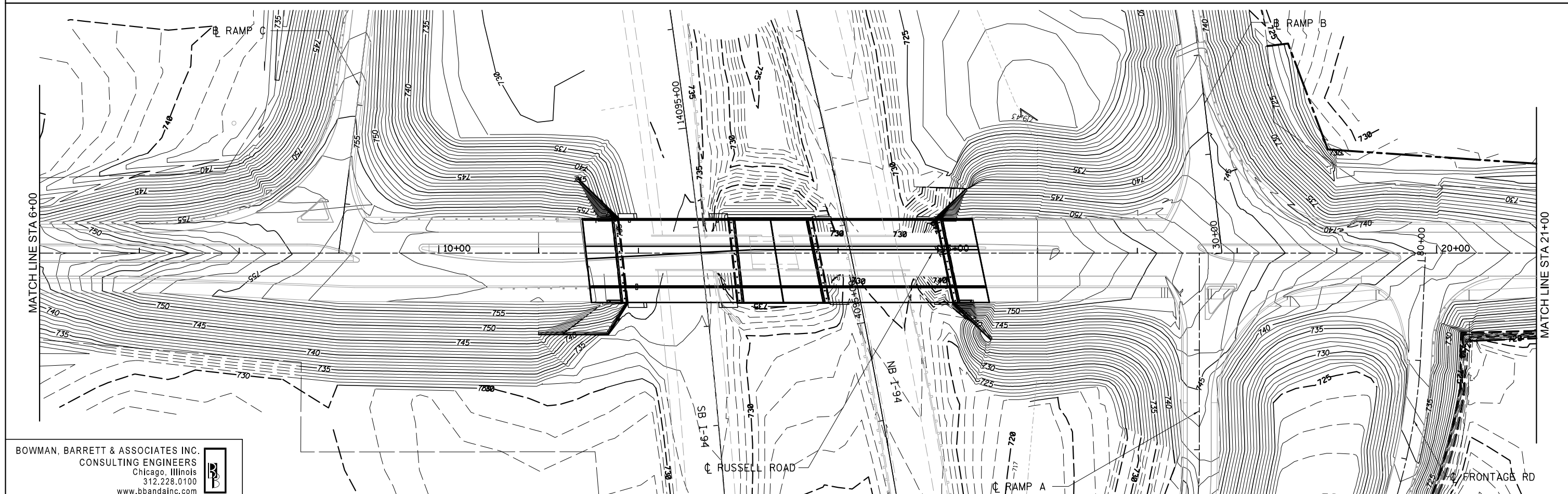
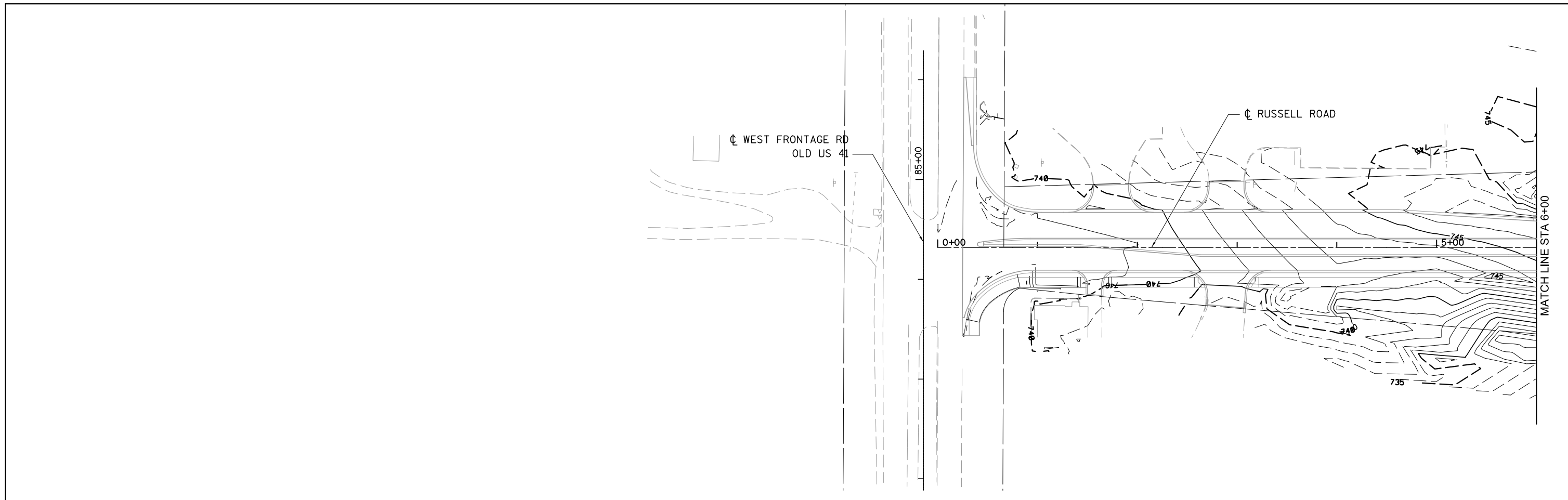
**STATE OF ILLINOIS
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**LANDSCAPING PLAN FOR
 NB I-94 RAMP TO RUSSELL ROAD**

SCALE: 1"=50' SHEET NO. 4 OF 4 SHEETS STA. 0+00.00 TO STA. 6+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	86
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

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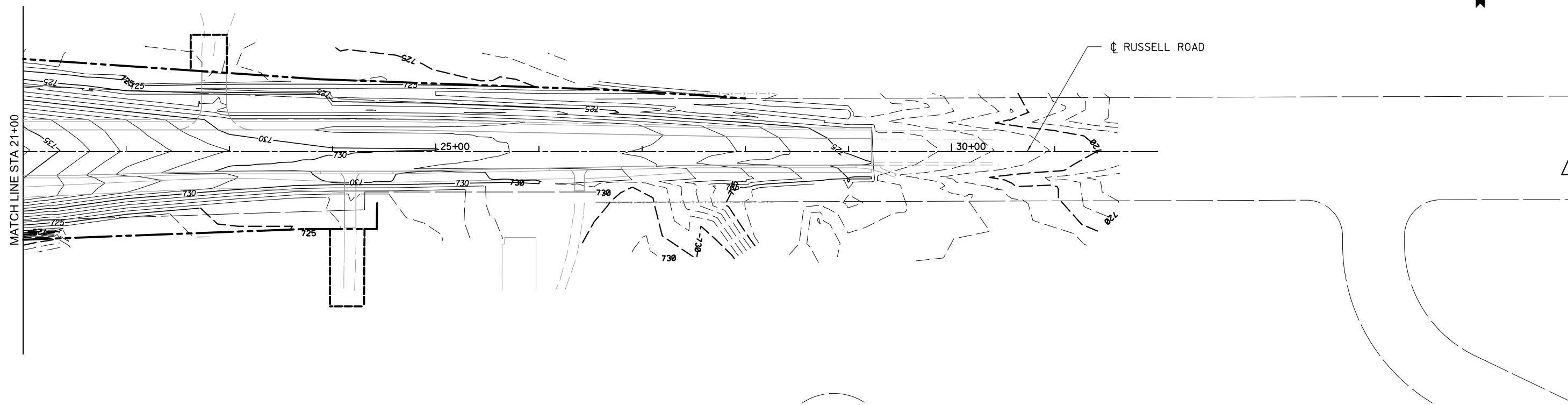
**STATE OF ILLINOIS
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PROPOSED CONTOURS FOR RUSSELL ROAD

SCALE: 1"=50' SHEET NO. 1 OF 4 SHEETS STA. 0+00.00 TO STA. 21+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	87
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

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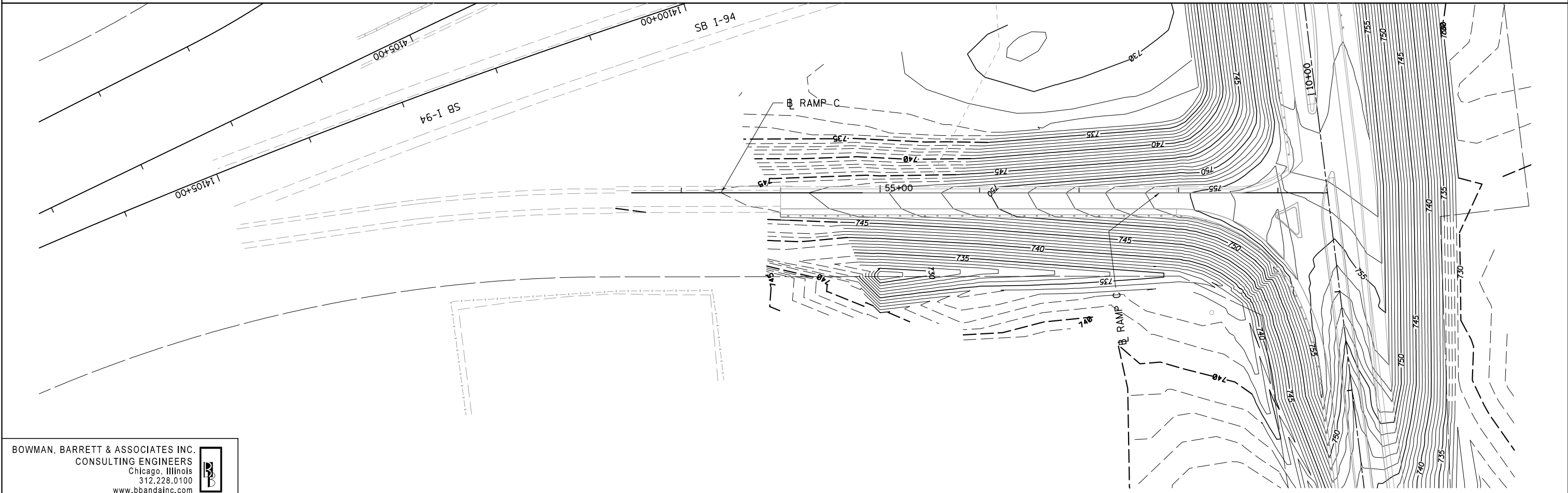
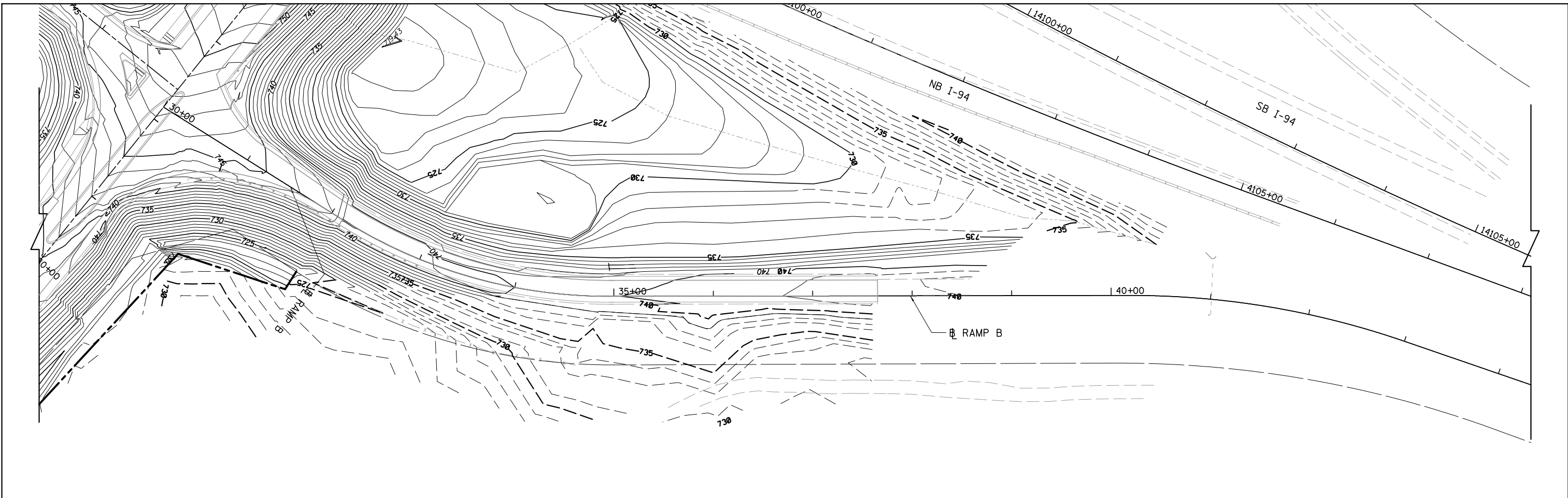
**STATE OF ILLINOIS
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PROPOSED CONTOURS FOR RUSSELL ROAD

SCALE: 1"=50' SHEET NO. 2 OF 4 SHEETS STA. 21+00.00 TO STA. 32+75.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	88
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

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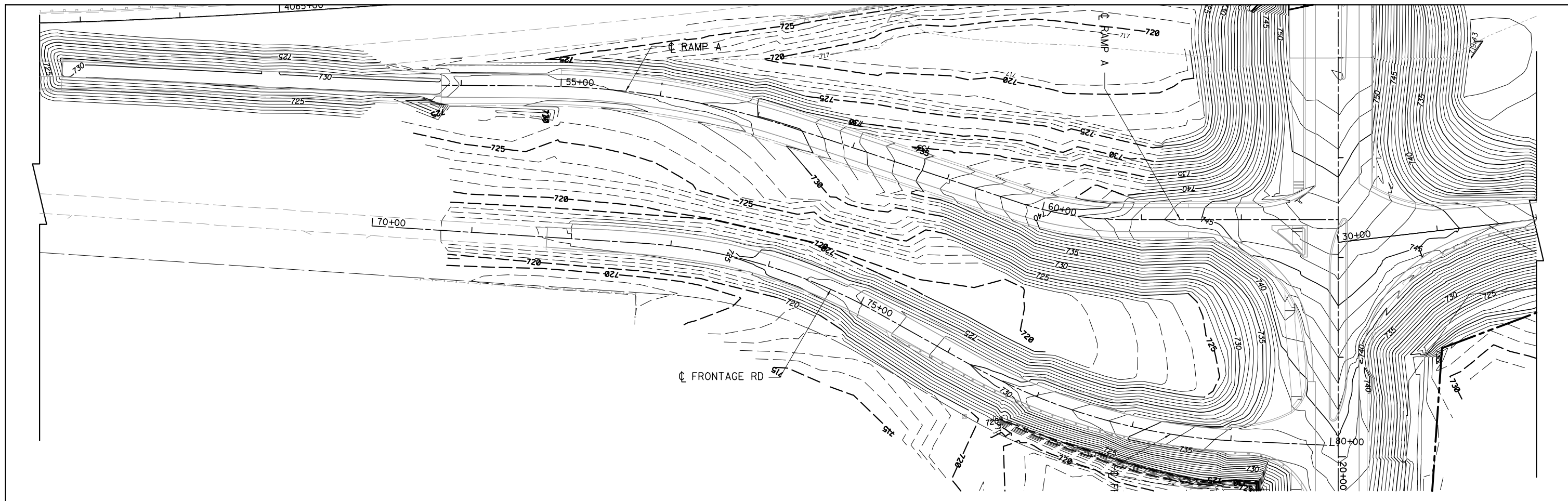
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PROPOSED CONTOURS FOR RAMP B AND RAMP C

SCALE: 1"=50' SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	89
CONTRACT NO. 60LT6				
ILLINOIS FED. AID PROJECT				

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PROPOSED CONTOURS FOR RAMP A

SCALE: 1"=50' SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	90
CONTRACT NO. 60L76				
ILLINOIS FED. AID PROJECT				

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TRAFFIC SIGNAL SCHEDULE OF QUANTITIES

ITEM	UNIT	RAMP "B"	RAMP "A"	INTERCONNECT	TIMINGS	TOTAL
CHANGEABLE MESSAGE SIGN	CAL MO	1	1			2
SERVICE INSTALLATION - POLE MOUNTED	EACH	1	1			2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH			1		1
MASTER CONTROLLER (SPECIAL)	EACH		1			1
SPAN WIRE	FOOT	449	488			940
TETHER WIRE	FOOT	449	488			940
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 3C	FOOT	435	395			830
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 5C	FOOT	710	1990			2700
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 7C	FOOT	590				590
ELECTRIC CABLE AERIAL SUSPENDED, SERVICE, NO. 6 2C	FOOT	64	146			210
LIGHT DETECTOR	EACH	2	3			5
LIGHT DETECTOR AMPLIFIER	EACH	1	1			2
WIRELESS INTERCONNECT (COMPLETE)	EACH			1		1
VIDEO DETECTION SYSTEM	EACH	1	1			2
FULL-ACTUATED CONTROLLER AND CABINET, TYPE IV, SPECIAL	EACH	1				1
FULL-ACTUATED CONTROLLER AND CABINET, TYPE V, SPECIAL	EACH		1			1
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1	1			2
ELECTRIC CABLE AERIAL SUSPENDED NO. 20 3/C, TWISTED, SHIELDED	FOOT	435	395			830
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH			1		1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	1		2	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED	EACH	4	9			13
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, SPAN WIRE MOUNTED	EACH	2				2
WOOD POLE, 45 FOOT, CLASS 5	EACH	4	4			8

NOTES:

- TRAFFIC SIGNAL TIMINGS SHALL BE ADJUSTED AT THE EXISTING SIGNALIZED INTERSECTIONS OF IL RTE 173 AT HUNT CLUB ROAD AND IL RTE 173 AT US RTE 41 WHILE THE RUSSELL ROAD BRIDGE CLOSURE DETOUR ROUTE IS IN EFFECT. THIS WORK IS INCLUDED IN THE COST OF THE ITEM "TEMPORARY TRAFFIC SIGNAL TIMINGS." THE CONTRACTOR IS NOT REQUIRED TO ASSUME MAINTENANCE OF THE INTERSECTION OF IL RTE 173 AT IL RTE 41, BUT ALL ADJUSTMENTS TO CONTROLLER TIMINGS MUST BE MADE IN THE PRESENCE OF THE ENGINEER AND/OR THE DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR.
- THE PROPOSED TRAFFIC SIGNAL CONTROL CABINETS SHALL BE MOUNTED ACCORDING TO THE "TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM" DETAIL ON SHEET TS-04. THE WOOD SUPPORT PLATFORM IS INCLUDED IN THE COST OF THE CONTROLLER AND CABINET.
- ALL POWER AND COMMUNICATION CABLES TO VIDEO CAMERAS ARE INCLUDED IN THE COST OF THE ITEM "VIDEO DETECTION SYSTEM."



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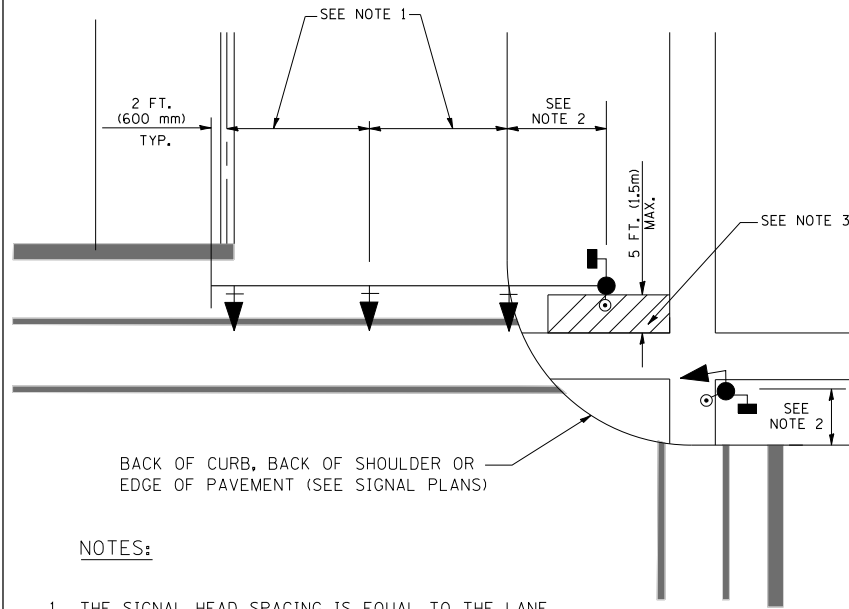
TRAFFIC SIGNAL SCHEDULE OF QUANTITIES

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	91
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60L76	

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

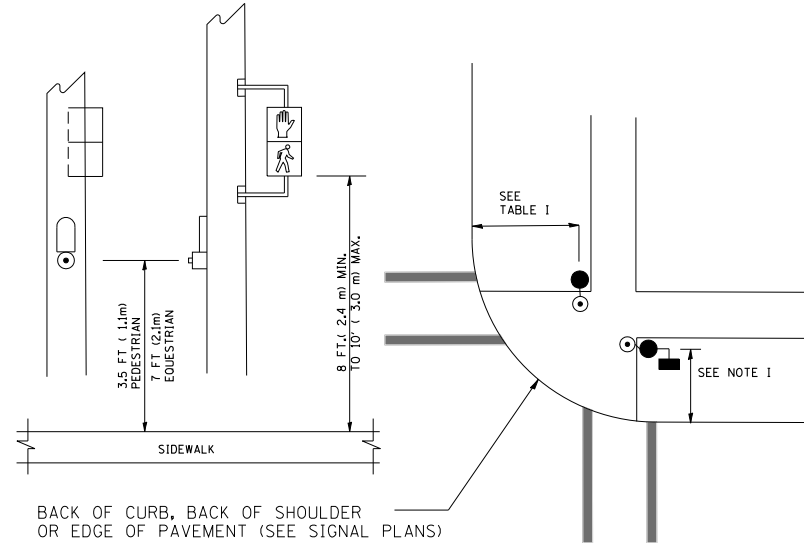
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

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

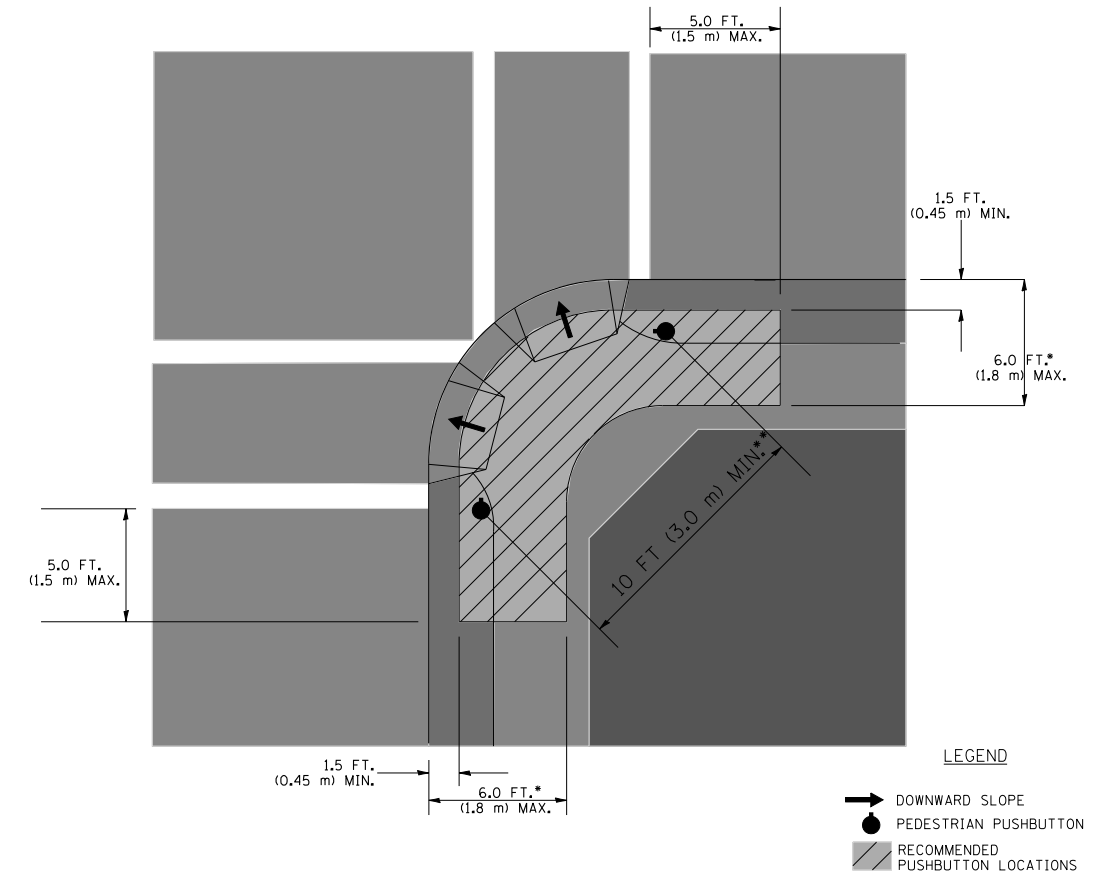
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



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

NOTES:

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

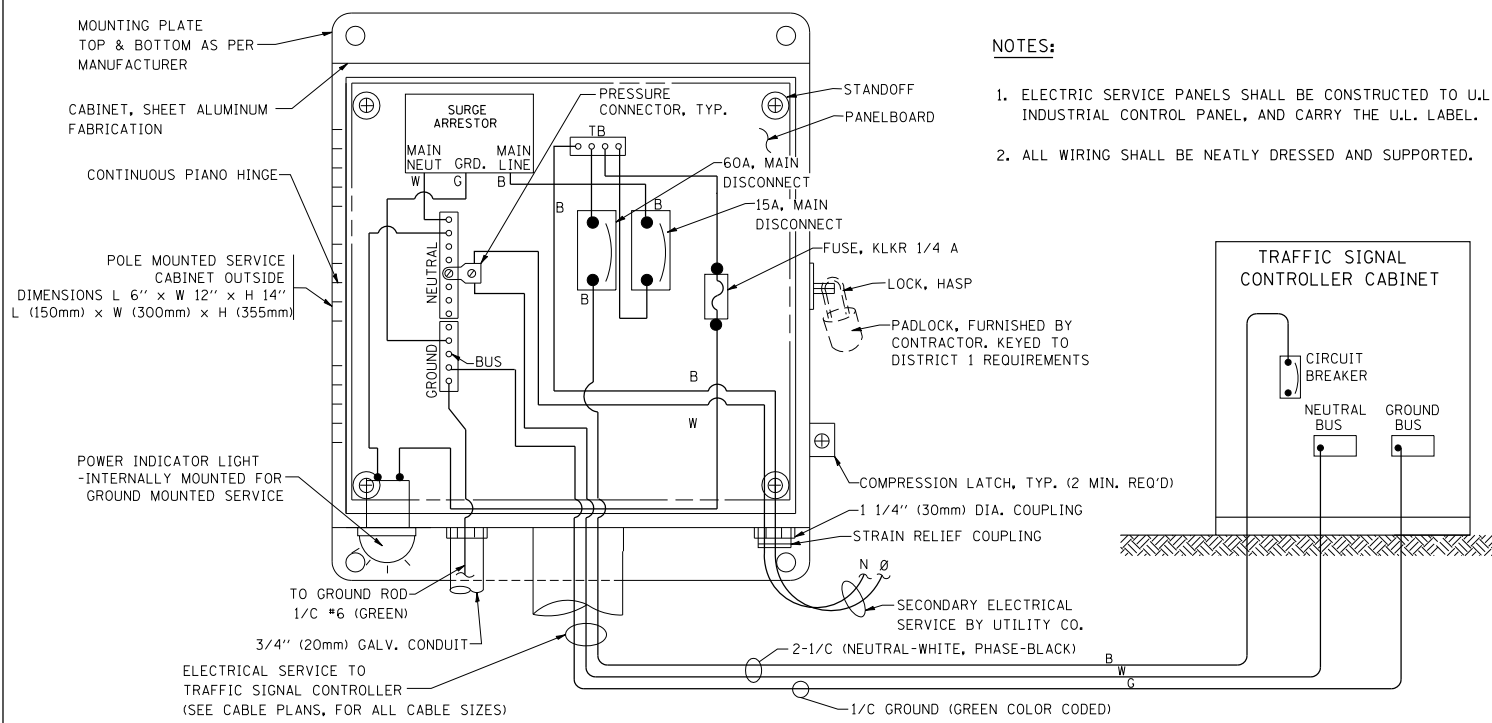
TRAFFIC SIGNAL EQUIPMENT OFFSET

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

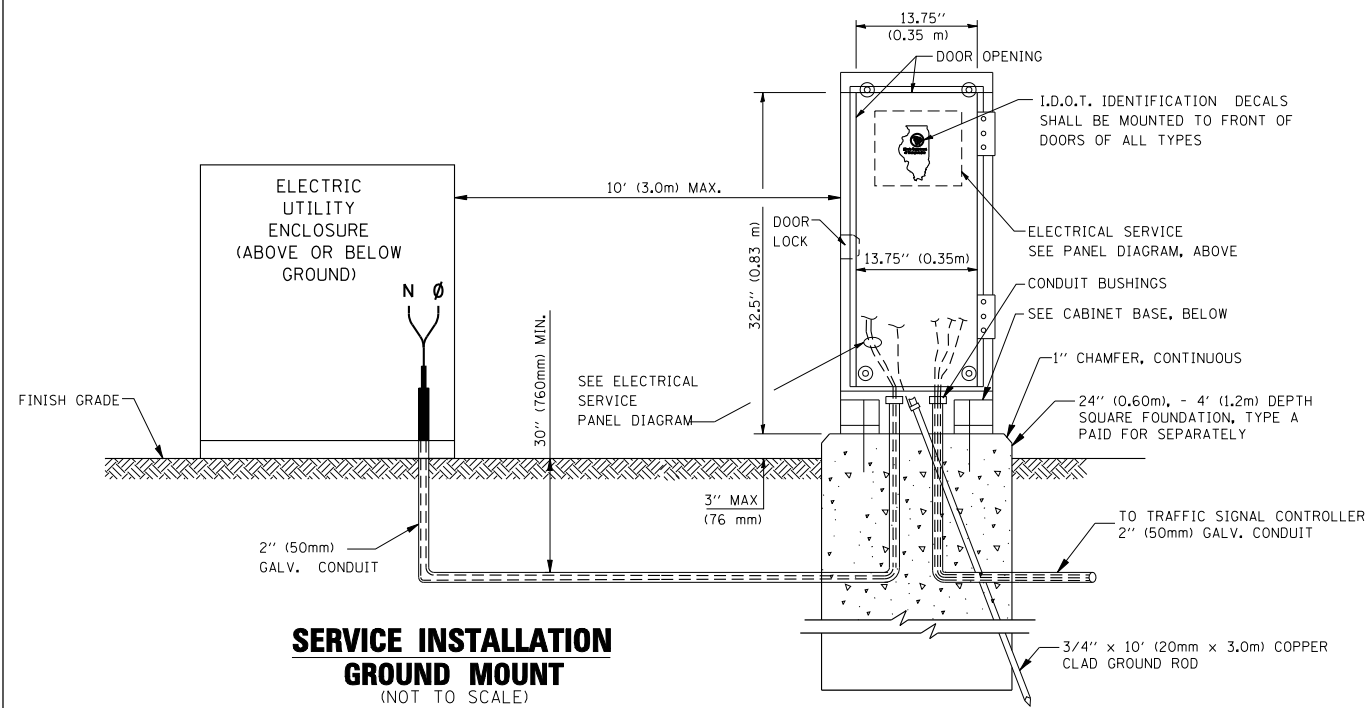
NOTES:

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

TS-02

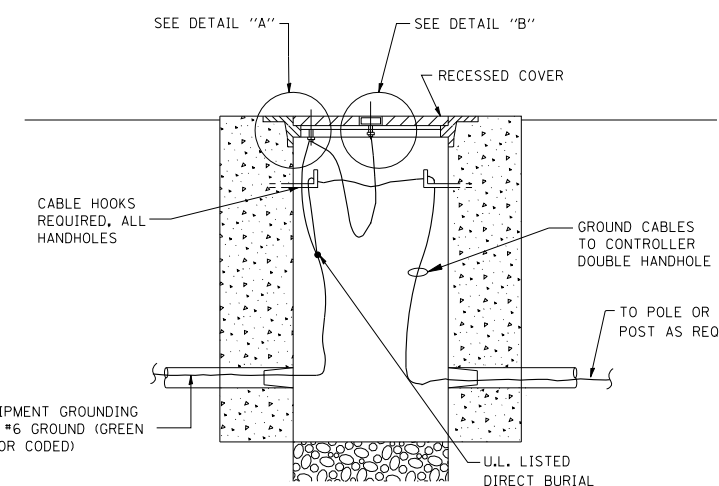
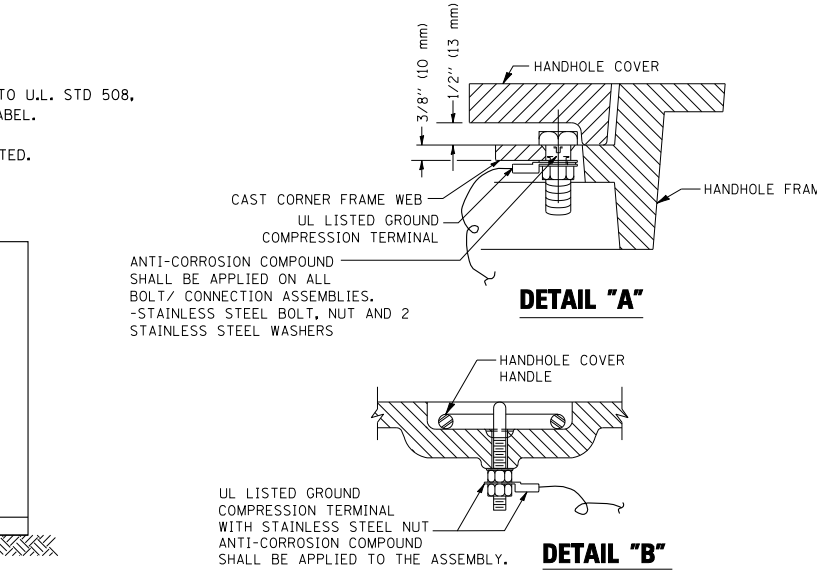
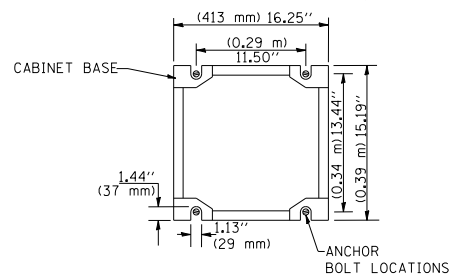


**ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)**

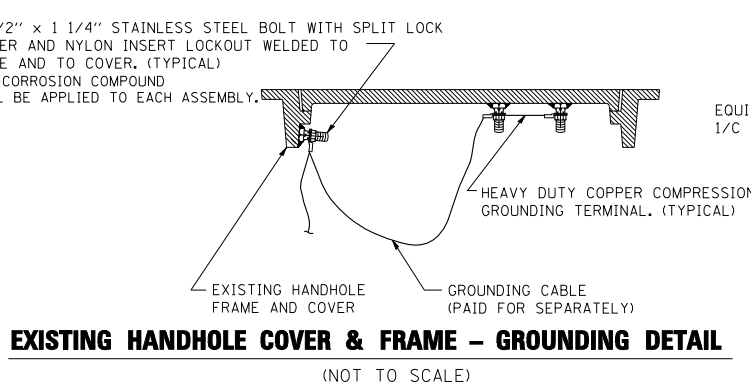


SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)

CABINET – BASE BOLT PATTERN (NOT TO SCALE)

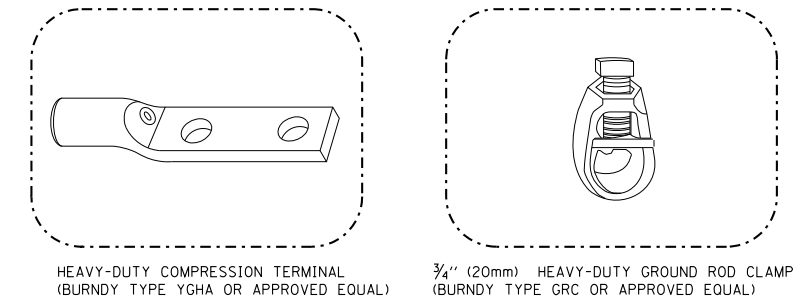


HANDHOLE COVER & FRAME – GROUNDING DETAIL (NOT TO SCALE)

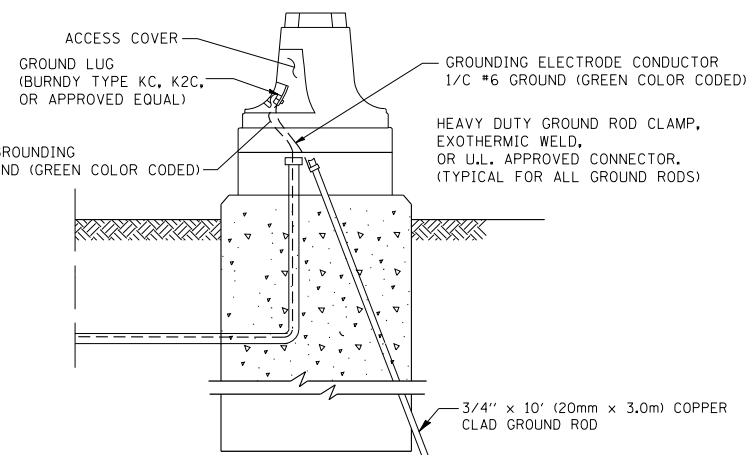


EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL (NOT TO SCALE)

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



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



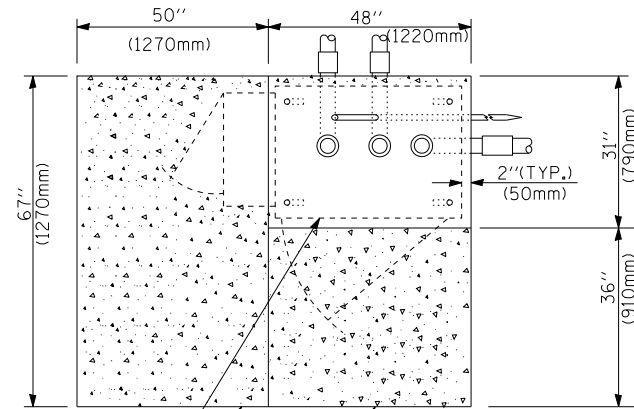
MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)

FILE NAME =	USER NAME = kanthapixaybc	DESIGNED - DAD	REVISED -
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		CHECKED - DAD	REVISED -
		DATE - 10/28/09	REVISED -

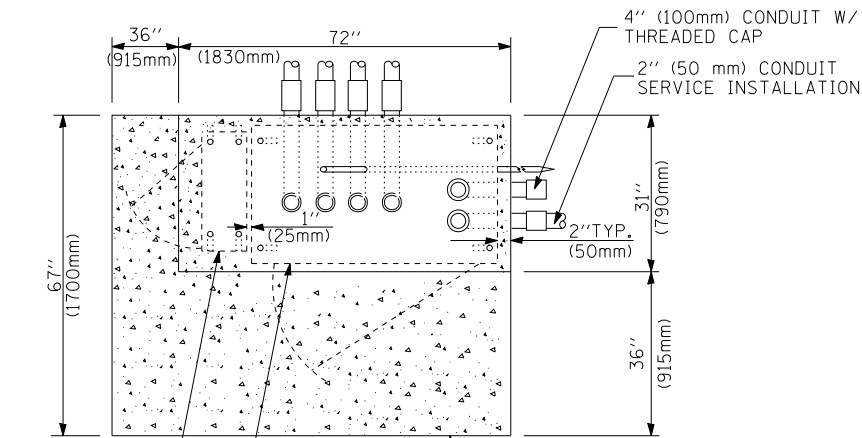
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

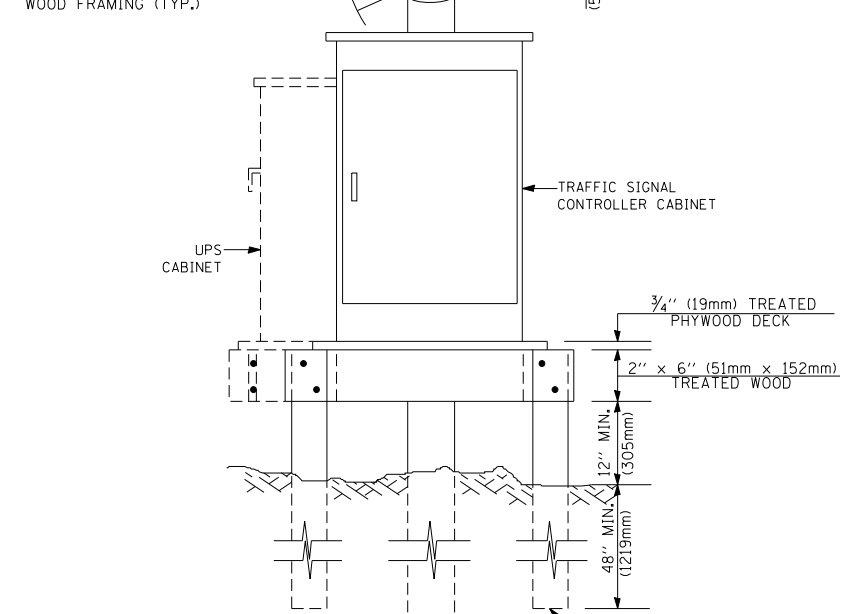
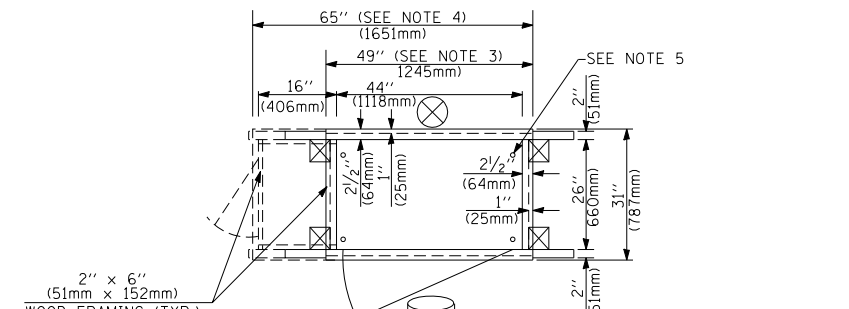
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	93
CONTRACT NO. 60L76				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



CONTROLLER CABINET BASE
EXISTING APRON
PROPOSED APRON
TOP VIEW

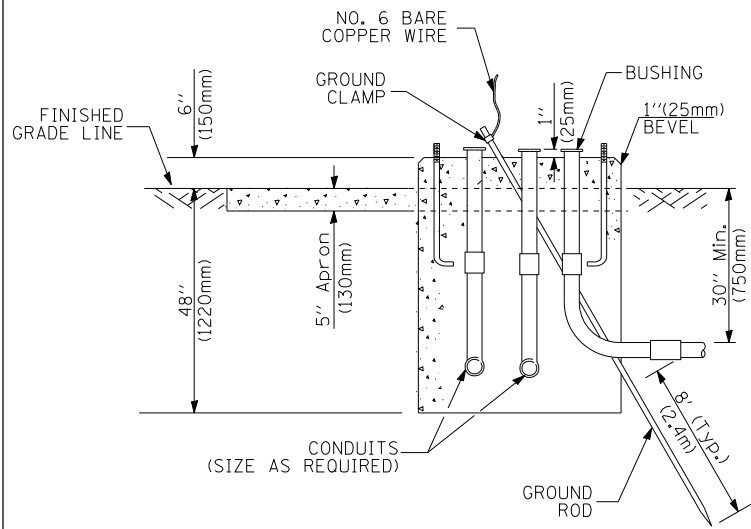


UPS CABINET BASE
CONTROLLER CABINET BASE
APRON
TOP VIEW

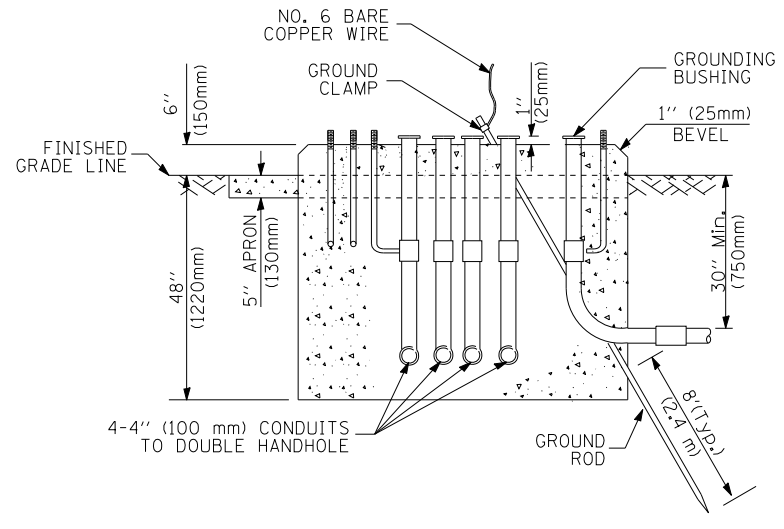


- NOTES:**
- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
 - BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET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

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**



**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



**TYPE C
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

MAST ARM LENGTH	FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	24" (600mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

TS-04

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		CHECKED - DAD	REVISED -
		DATE - 10/28/09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

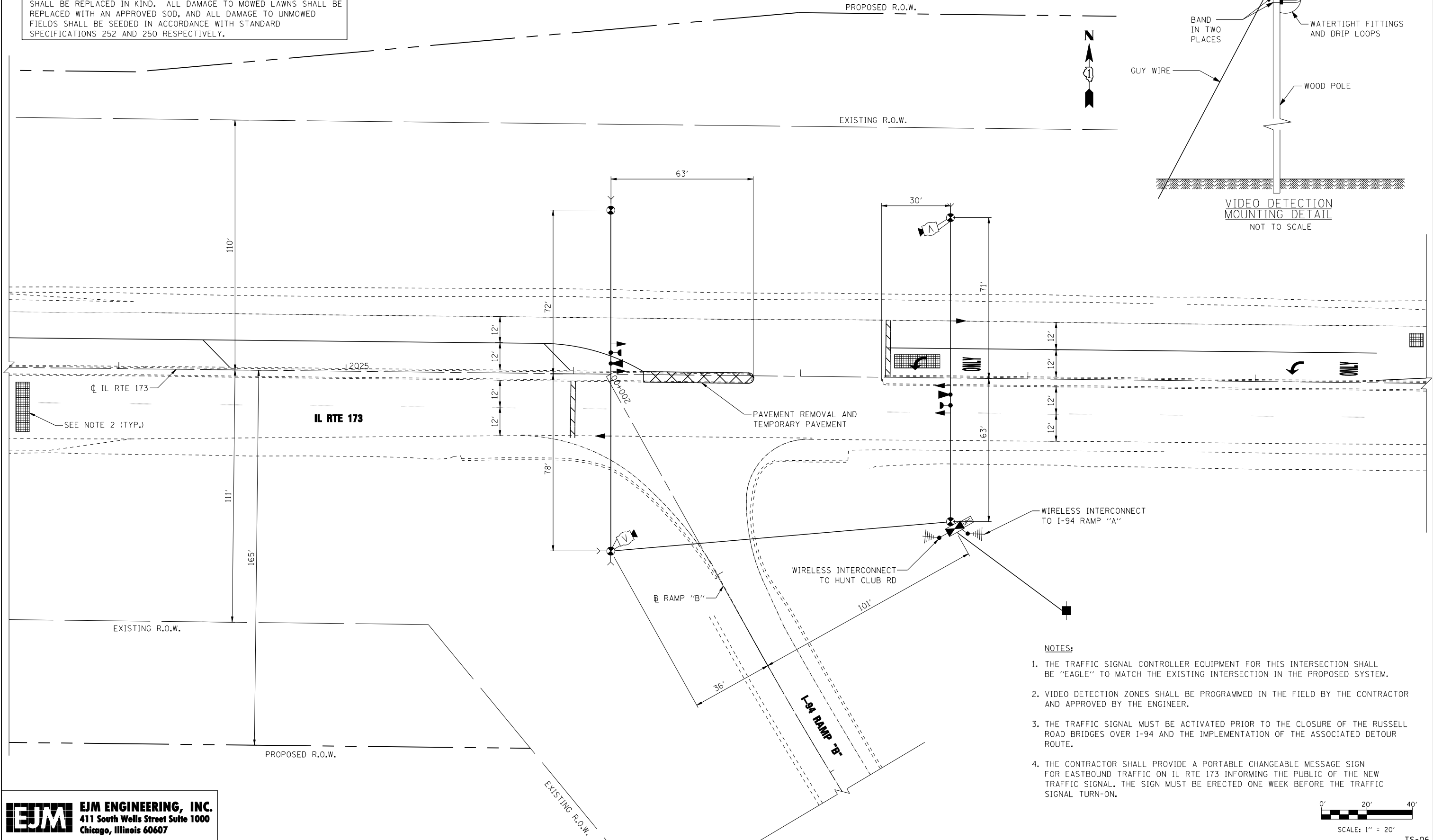
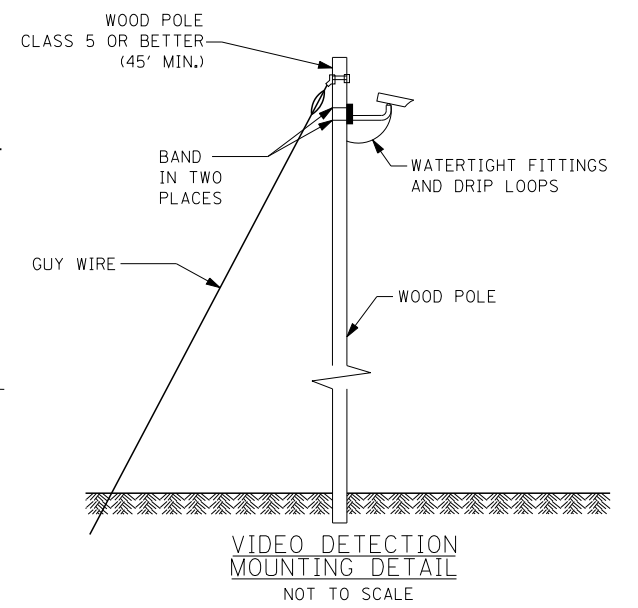
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	94
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60L76	

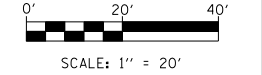
TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F 24F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F 24F			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM		S	S	CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM		I	IP	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM	R			ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM	RL			STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
GUY WIRE				ABANDON ITEM	A			SIGNAL POST AND FOUNDATION TO BE REMOVED			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				RAILROAD SYMBOLS			
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER				RAILROAD CONTROL CABINET			
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT				RAILROAD CANTILEVER MAST ARM			
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER				FLASHING SIGNAL			
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED				CROSSING GATE			
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)				CROSSBUCK			
MICROWAVE VEHICLE SENSOR											
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											

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



- NOTES:**
1. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING INTERSECTION IN THE PROPOSED SYSTEM.
 2. VIDEO DETECTION ZONES SHALL BE PROGRAMMED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
 3. THE TRAFFIC SIGNAL MUST BE ACTIVATED PRIOR TO THE CLOSURE OF THE RUSSELL ROAD BRIDGES OVER I-94 AND THE IMPLEMENTATION OF THE ASSOCIATED DETOUR ROUTE.
 4. THE CONTRACTOR SHALL PROVIDE A PORTABLE CHANGEABLE MESSAGE SIGN FOR EASTBOUND TRAFFIC ON IL RTE 173 INFORMING THE PUBLIC OF THE NEW TRAFFIC SIGNAL. THE SIGN MUST BE ERECTED ONE WEEK BEFORE THE TRAFFIC SIGNAL TURN-ON.



EJM ENGINEERING, INC.
411 South Wells Street Suite 1000
Chicago, Illinois 60607

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		DRAWN - RAS	REVISED -
	PLOT SCALE = 20.0000' / IN.	CHECKED - DLT	REVISED -
	PLOT DATE = 1/4/2012	DATE - 12/2/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

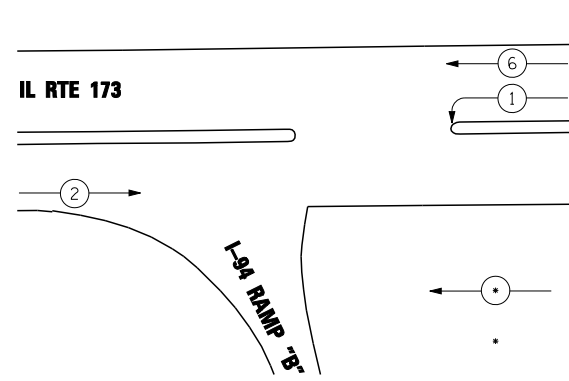
**TRAFFIC SIGNAL INSTALLATION
IL RTE 173 AT I-94 RAMP "B"**

SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. 2023+52 TO STA. 2029+75

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	96
CONTRACT NO. 60L76			ILLINOIS FED. AID PROJECT	

TS-06

CONTROLLER SEQUENCE

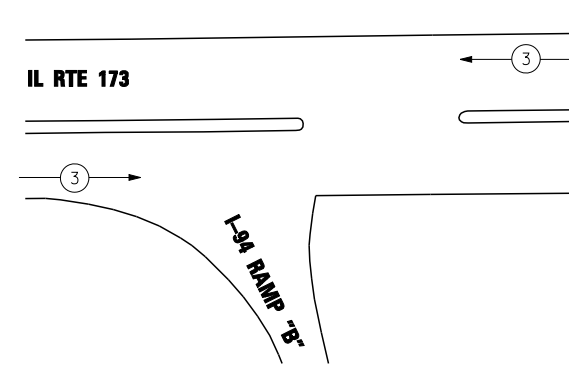


LEGEND

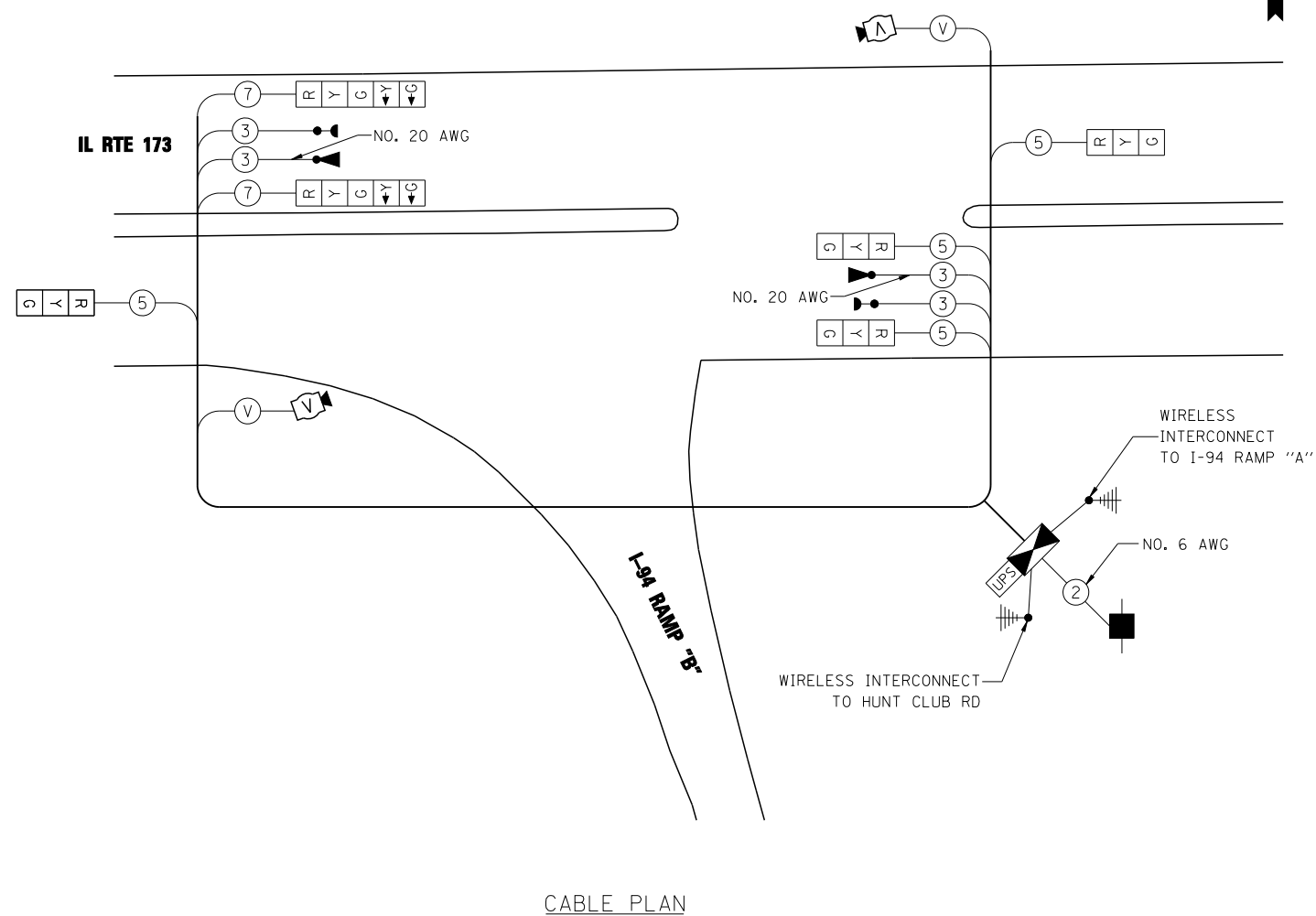
- ← ○ → DUAL ENTRY PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3
MOVEMENT	← →



CABLE PLAN

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS WATTAGE	TOTAL
		INCAND.	LED		
SIGNAL (RED)	6	135	17	0.50	51
(YELLOW)	6	135	25	0.25	37.5
(GREEN)	6	135	15	0.25	22.5
ARROW	4	135	12	0.10	4.8
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.50	
ENERGY COSTS TO:				TOTAL =	215.8

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

ENERGY SUPPLY: CONTACT: DOROTHY PROSEN
PHONE: (847) 816-5323
COMPANY: COM ED

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL MO	1
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
SPAN WIRE	FOOT	449
TETHER WIRE	FOOT	449
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 3C	FOOT	435
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 5C	FOOT	710
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 7C	FOOT	590
ELECTRIC CABLE AERIAL SUSPENDED, SERVICE, NO. 6 2 C	FOOT	64
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
VIDEO DETECTION SYSTEM	EACH	1
FULL-ACTUATED CONTROLLER AND CABINET, TYPE IV, SPECIAL	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
ELECTRIC CABLE AERIAL SUSPENDED NO. 20 3/C, TWISTED, SHIELDED	FOOT	435
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, SPAN WIRE MOUNTED	EACH	2
WOOD POLE, 45 FOOT, CLASS 5	EACH	4

NOTES:

1. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING INTERSECTION IN THE PROPOSED SYSTEM.
2. THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS INTERSECTION SHALL BE "OPTICOM" TO MATCH THE TOWNSHIP SYSTEM.



FILE NAME =	USER NAME = rswanson	DESIGNED - RAS	REVISED -
		DRAWN - RAS	REVISED -
	PLOT SCALE = none	CHECKED - DLT	REVISED -
	PLOT DATE = 12/15/2011	DATE - 3/9/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

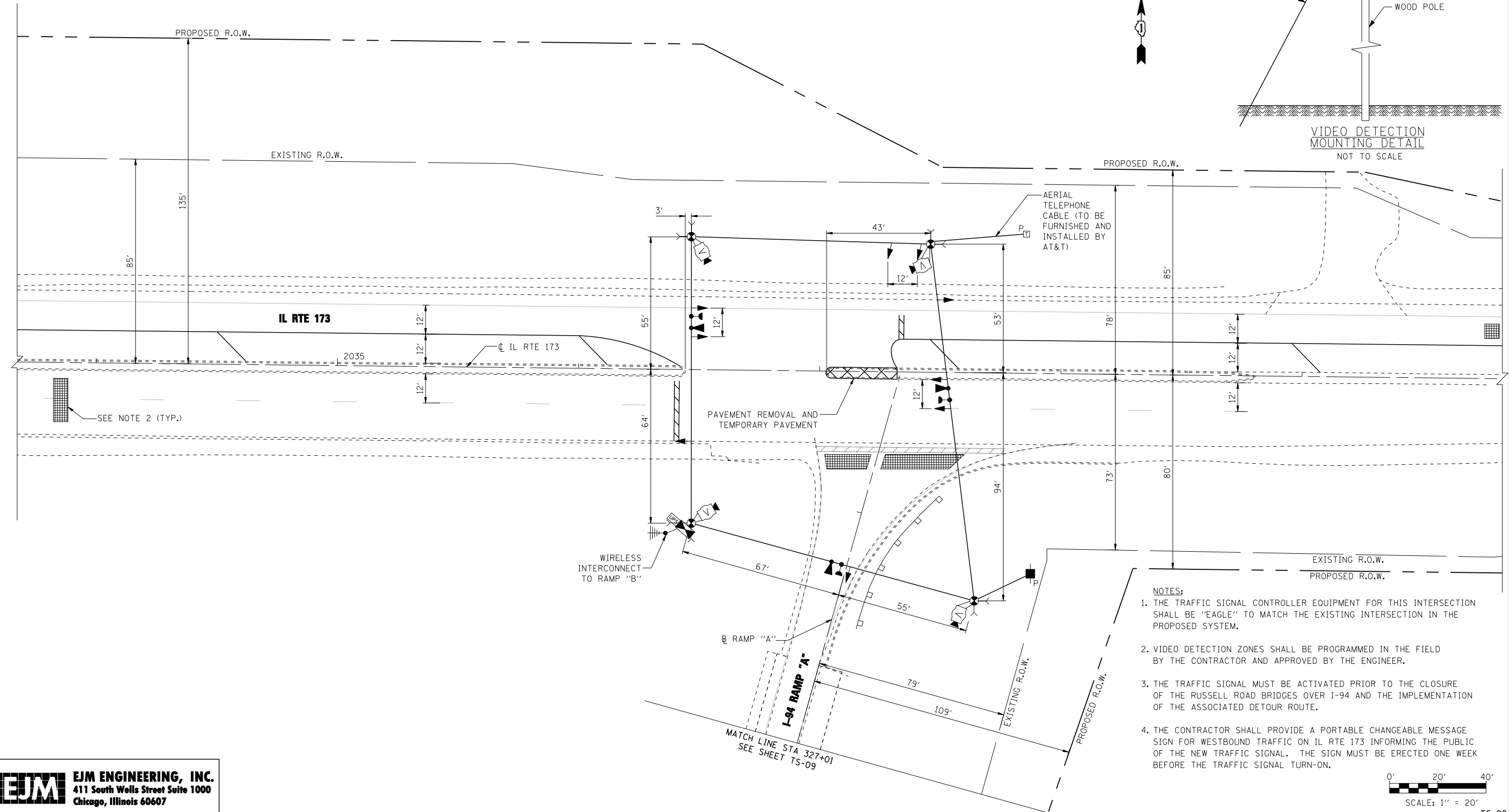
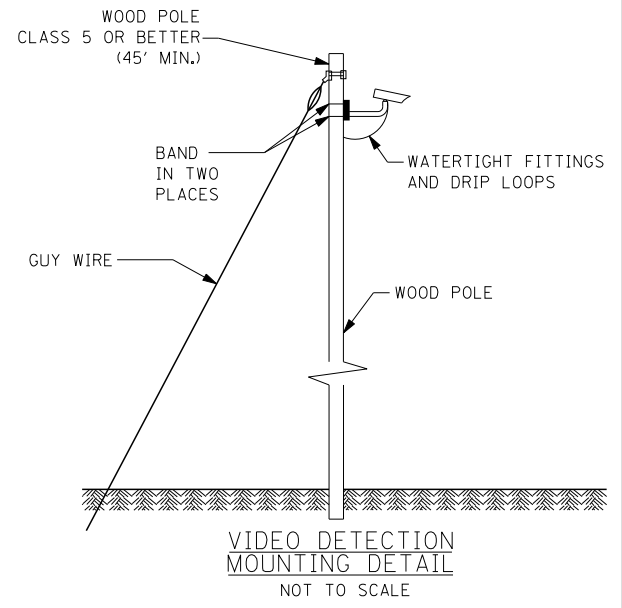
SCHEDULE OF QUANTITIES, CABLE PLAN,
AND PHASE DESIGNATION DIAGRAM
IL RTE 173 AT I-94 RAMP "B"

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	97
			CONTRACT NO. 60L76	
ILLINOIS FED. AID PROJECT				

TS-07

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



- NOTES:**
1. THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS INTERSECTION SHALL BE "EAGLE" TO MATCH THE EXISTING INTERSECTION IN THE PROPOSED SYSTEM.
 2. VIDEO DETECTION ZONES SHALL BE PROGRAMMED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
 3. THE TRAFFIC SIGNAL MUST BE ACTIVATED PRIOR TO THE CLOSURE OF THE RUSSELL ROAD BRIDGES OVER I-94 AND THE IMPLEMENTATION OF THE ASSOCIATED DETOUR ROUTE.
 4. THE CONTRACTOR SHALL PROVIDE A PORTABLE CHANGEABLE MESSAGE SIGN FOR WESTBOUND TRAFFIC ON IL RTE 173 INFORMING THE PUBLIC OF THE NEW TRAFFIC SIGNAL. THE SIGN MUST BE ERECTED ONE WEEK BEFORE THE TRAFFIC SIGNAL TURN-ON.

EJM ENGINEERING, INC.
 411 South Wells Street Suite 1000
 Chicago, Illinois 60607

FILE NAME =	USER NAME = grai	DESIGNED - RAS	REVISED -
		DRAWN - RAS	REVISED -
		CHECKED - DLT	REVISED -
		DATE - 12/2/11	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

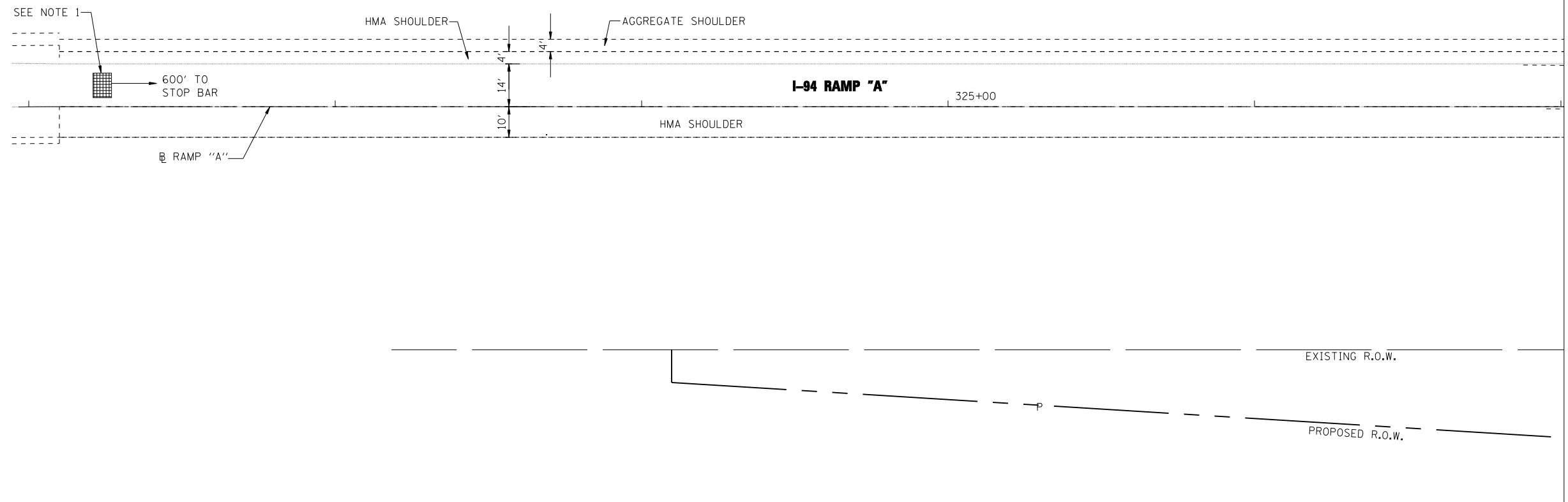
**TRAFFIC SIGNAL INSTALLATION
 IL RTE 173 AT I-94 RAMP "A"**

SCALE: 1" = 20' SHEET NO. 1 OF 2 SHEETS STA. 2033+67 TO STA. 2039+83

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	98
CONTRACT NO. 60L76			ILLINOIS FED. AID PROJECT	

TS-08

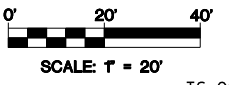
RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL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



MATCH LINE STA. 327+01
SEE SHEET TS-08

- NOTES:**
- VIDEO DETECTION ZONES SHALL BE PROGRAMMED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

EJM ENGINEERING, INC.
411 South Wells Street Suite 1000
Chicago, Illinois 60607



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		DRAWN - RAS	REVISED -
	PLOT SCALE = 20.0000' / IN.	CHECKED - DLT	REVISED -
	PLOT DATE = 12/8/2011	DATE - 12/2/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

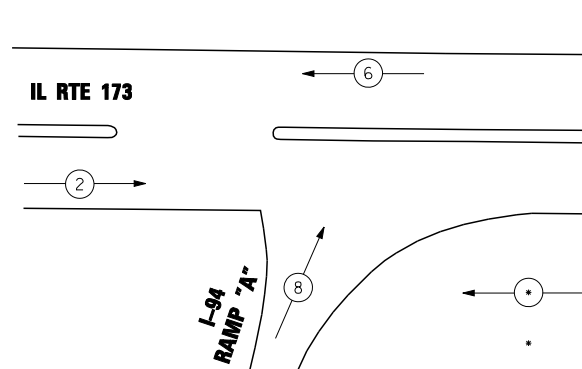
**TRAFFIC SIGNAL INSTALLATION
IL RTE 173 AT I-94 RAMP "A"**

SCALE: 1" = 20' SHEET NO. 2 OF 2 SHEETS STA. 321+95 TO STA. 327+01

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1)R	LAKE	225	99
CONTRACT NO. 60L76			ILLINOIS FED. AID PROJECT	

TS-09

CONTROLLER SEQUENCE

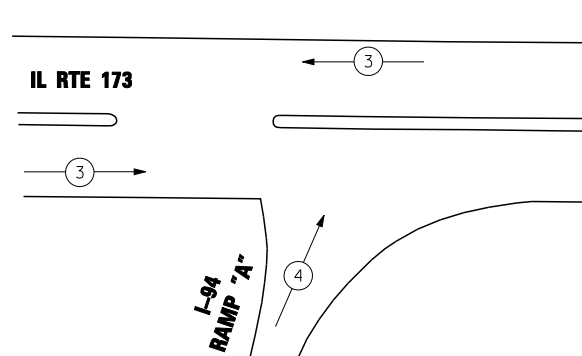


LEGEND

DUAL ENTRY PHASE
 NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

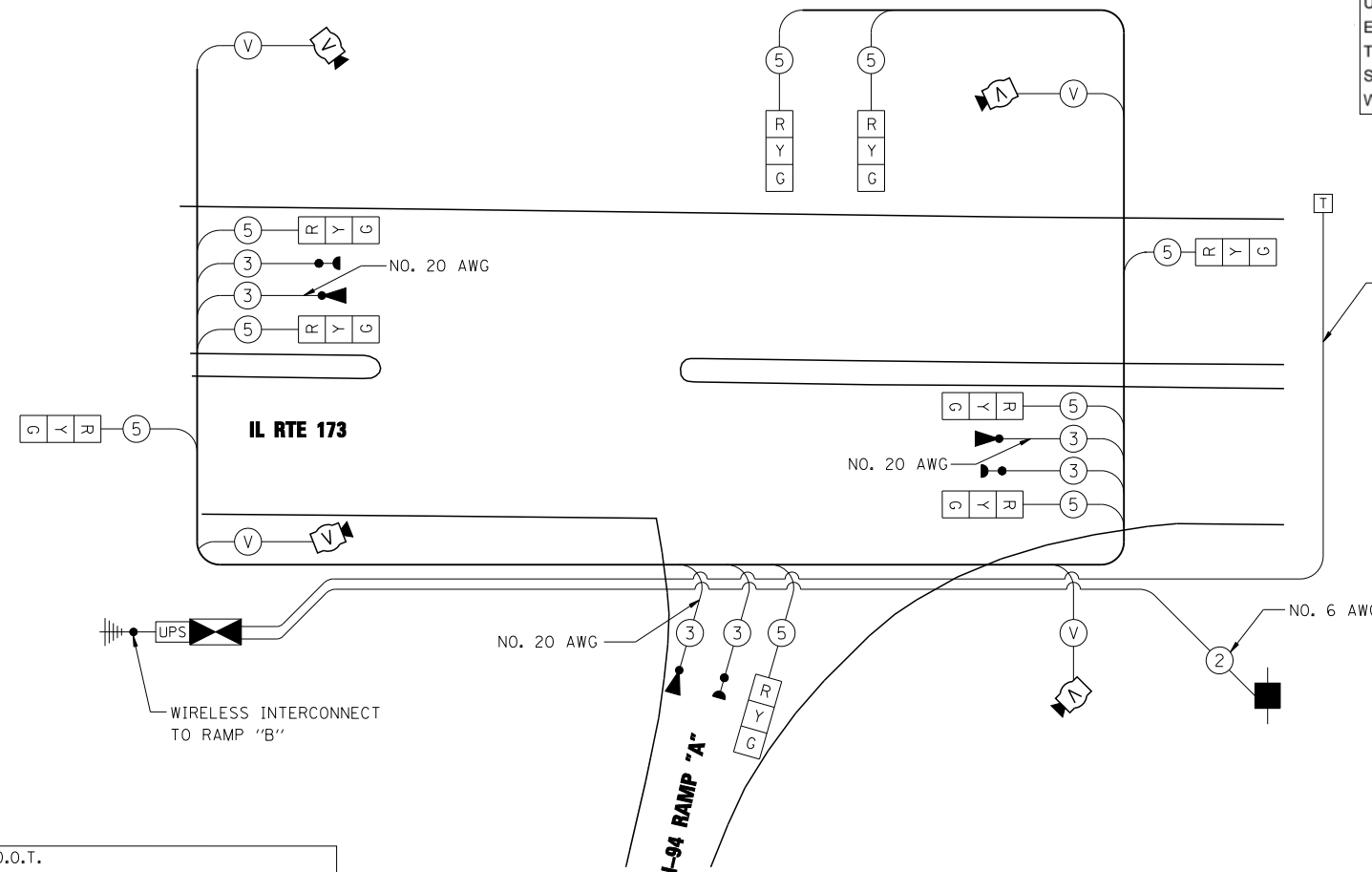
EMERGENCY VEHICLE PREEMPTION SEQUENCE



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

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
CHANGEABLE MESSAGE SIGN	CAL MO	1
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
MASTER CONTROLLER (SPECIAL)	EACH	1
SPAN WIRE	FOOT	488
TETHER WIRE	FOOT	488
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 3C	FOOT	395
ELECTRIC CABLE AERIAL SUSPENDED, SIGNAL, NO. 14 5C	FOOT	1990
ELECTRIC CABLE AERIAL SUSPENDED, SERVICE, NO. 6 2 C	FOOT	146
LIGHT DETECTOR	EACH	3
LIGHT DETECTOR AMPLIFIER	EACH	1
VIDEO DETECTION SYSTEM	EACH	1
FULL-ACTUATED CONTROLLER AND CABINET, TYPE V, SPECIAL	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
ELECTRIC CABLE AERIAL SUSPENDED NO. 20 3/C, TWISTED, SHIELDED	FOOT	395
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED	EACH	9
WOOD POLE, 45 FOOT, CLASS 5	EACH	4



CABLE PLAN

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

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					
TYPE	NO. OF LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	9	135	17	0.50	76.5
(YELLOW)	9	135	25	0.25	56.25
(GREEN)	9	135	15	0.25	33.75
ARROW	-	135	12	0.10	-
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	-	-	25	0.50	-

ENERGY COSTS TO: TOTAL = 266.5

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

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 COMPANY: COM ED

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	PLOT DATE = 12/15/2011	DATE - 3/9/12	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM
 IL RTE 173 AT I-94 RAMP "A"

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1(HB & HB-1R)	LAKE	225	100
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60L76	

TS-10