• (0203.1 & 0312-708W) R-3 CONTRACT NO. 62108

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	870	5
STA.		TO STA.		
FED ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CODE	PAY ITEM	UNIT	TOTAL	URBAN	ACNHF 80% FED. 20% STATE	ACNHI 90% FED. 10% STATE	ACNHF 80% FED. 20% STATE	ACNHF 80% FED. 20% STATE	ACNHI 90% FED. 10% STATE	ACNHF 80% FED. 20% STATE	ACNHI 90% FED. 10% STATE	ACNHF 80% FED. 20% STATE	ISTHA-ACNHF	ACNHI	
					ROADWAY I-94	ROADWAY IL 394	IL 394 SB OVER I-80 SN-016-2796	IL 394 SB OVER CNRR SN-016-2798	IL 394 SB OVER THORN CREEK SN-016-2800	IL 394 SB OVER THORN CREEK SN-016-2807	I-94 EB RETAINING WALL SN-016-W666	CULVERT SN-016-C012	LIGHTING I-94	LIGHTING IL 394	SIGNING I-94	SIGNING IL 394	RAMP F	THORN CREEK SN-016-2845 OVER IL 394 SB	VILLAGE OF SOUTH HOLLAND
					CONSTRUCTION TYPE CODE														
					J000-2A	J000-2A	X271-2A	X181-2A	X071-2A	X071-2A	Y007	Y007	Y030-1E	Y030-1E	Y002-1C	Y002-1C	J000-2A	X071-2A	Y102
MX0335**	ORNAMENTAL FENCE	METER	20.0		13.5														6.5
28000300	TEMPORARY DITCH CHECKS	EACH	64		17	47													
28000500	INLET AND PIPE PROTECTION	EACH	43		20	23													
28000510	INLET FILTERS	EACH	103		85	18													
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1				1												
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1					1											
50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1							1									
50104400	CONCRETE HEADWALL REMOVAL	EACH	3		1	1											1		
50200900	COFFERDAM (PIER 4)	EACH	1						1										
50300100	FLOOR DRAINS	EACH	6					4	2										
50300310	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	24					24											
50300320	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	8					8											
50300440	ERECTING ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	36				12		24										
50300460	ERECTING ELASTOMERIC BEARING ASSEMBLY, TYPE III	EACH	9						9										
50500505	STUD SHEAR CONNECTORS	EACH	28762 △1				4752		11531	12479 △1									
51203200	TEST PILE METAL SHELLS	EACH	3								2	1							
51500100	NAME PLATES	EACH	4				1		1	1		1							
60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	28	4	21												3		
60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	12	8	4														
60250200	CATCH BASINS TO BE ADJUSTED	EACH	9	1	8														
60255500	MANHOLES TO BE ADJUSTED	EACH	6		6														
60256400	MANHOLES TO BE ADJUSTED WITH TYPE 8 GRATE	EACH	2		2														
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	2		2														
60258200	MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	5 △1		5														
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	28	28															
60500040	REMOVING MANHOLES	EACH	22	7	15														
60500050	REMOVING CATCH BASINS	EACH	27	15	12														
60500060	REMOVING INLETS	EACH	58	31	27														

• SPECIALTY ITEM
** SFTY-3N
△ Y080
△△ Y220 NOISE ABATEMENT WALL

△1 Rev. 12-5-05

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

SUMMARY OF QUANTITIES

HORIZ SCALE: NONE
VERT SCALE: NONE
DATE: JULY 18, 2005
DRAWN BY: JYMC
CHECKED BY: JES

HNTB

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	870	6
STA.		TO STA.		
FED ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

	CODE	PAY ITEM	UNIT	TOTAL	CONSTRUCTION TYPE CODE: J000-2A	J000-2A	X271-2A	X181-2A	X071-2A	X071-2A	Y007	Y007	Y030-1E	Y030-1E	Y002-1C	Y002-1C	J000-2A	X071-2A	Y102
				URBAN	ROADWAY I-94	ROADWAY IL 394	IL 394 SB OVER I-80 SN-016-2796	IL 394 SB OVER CNRR SN-016-2798	OVER THORN CREEK IL 394 SB SN-016-2800	OVER THORN CREEK I-94 EB SN-016-2807	RETAINING WALL SN-016-W866	CULVERT SN-016-C012	LIGHTING I-94	LIGHTING IL 394	SIGNING I-94	SIGNING IL 394	RAMP F	THORN CREEK IL 394 SB OVER SN-016-2845	VILLAGE OF SOUTH HOLLAND
					ACNHF 80%FED. 20%STATE		ACNHF 80%FED. 20%STATE			ACNHI 90%FED. 10%STATE			ACNHF 80%FED. 20%STATE	ACNHI 90%FED. 10%STATE	ACNHF 80%FED. 20%STATE		ISTHA-ACNHF	ACNHI	
	60900315	TYPE D INLET BOX, STANDARD 609006	EACH	3		3													
	60900515	CONCRETE THRUST BLOCKS	EACH	3		3													
*	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	3		3													
*	63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	5		5													
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	8	1	7													
•	63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	8	1	7													
*	63301990	REMOVE AND RE-ERECT TRAFFIC TERMINAL BARRIER TYPE 1	EACH	1	1	0 △													
*	63302000	REMOVE AND RE-ERECT TRAFFIC TERMINAL BARRIER TYPE 2	EACH	2	2	0													
*	63302700	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1		1													
	63500105	DELINEATORS	EACH	142	38	104													
	67100100	MOBILIZATION	L SUM	1	0.44	0.53											0.03		
	70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1														
	70102550	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	EACH	1	1														
*	72600100	MILE POST MARKER ASSEMBLY	EACH	1											1				
*	73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	2											1	1			
*	73602000	REMOVE OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	EACH	1												1			
*	73700100	REMOVE GROUND-MOUNTED SIGN SUPPORT	EACH	6											4	2			
*	73700300	REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	4												4			
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1773	1081	692													
*	78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	142	30	112													
	78200100	MONODIRECTIONAL PRISMATIC BARRIER REFLECTOR	EACH	946	403	543													
•	78200420	GUARDRAIL MARKERS, TYPE B	EACH	87	16	71													
•	78200530	BARRIER WALL MARKERS, TYPE C	EACH	247	213	34													
•	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	7		7													
	M2010110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	210	20	190													
	M2010210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	188	26	162													
	M2010500	TREE REMOVAL, HECTARES	HA	0.7	0.2	0.5													
	M2011000	TEMPORARY FENCE	METER	5436.5	1650.5	3786													

• SPECIALTY ITEM
** SFTY-3N
△ Y080
△△ Y220 NOISE ABATEMENT WALL

△ Rev. 12-5-05

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

SUMMARY OF QUANTITIES

HORIZ SCALE: NONE
VERT SCALE: NONE
DATE: JULY 18, 2005
DRAWN BY: JYMC
CHECKED BY: JES

HNTB

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• (0203.1 & 0312-708W) R-3 CONTRACT NO. 62108

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	870	7
STA.		TO STA.		
FED ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CODE	PAY ITEM	UNIT	URBAN TOTAL	CONSTRUCTION TYPE CODE: ACNHI 90% FED. 10% STATE ROADWAY I-94	ACNHF 80% FED. 20% STATE ROADWAY IL 394	ACNHF 80% FED. 20% STATE IL 394 SB OVER I-80 SN-016-2796	ACNHF 80% FED. 20% STATE IL 394 SB OVER ONRR SN-016-2798	ACNHF 80% FED. 20% STATE IL 394 SB OVER THORN CREEK SN-016-2800	ACNHF 80% FED. 20% STATE IL 394 SB OVER THORN CREEK SN-016-2807	ACNHF 80% FED. 20% STATE I-94 EB RETAINING WALL SN-016-W866	ACNHF 80% FED. 20% STATE CULVERT SN-016-C012	ACNHC 80% FED. 20% STATE LIGHTING I-94	ACNHI 90% FED. 10% STATE LIGHTING IL 394	ACNHF 80% FED. 20% STATE SIGNING I-94	ACNHF 80% FED. 20% STATE SIGNING IL 394	ISTHA-ACNHF RAMP F THORN CREEK SN-016-2845 OVER IL 394 SB	ACNHI VILLAGE OF SOUTH HOLLAND	Y102
M2020010	EARTH EXCAVATION	CU M	75923	22176	53747													
M2021200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU M	8061	3004	4020						1037							
M2040800	FURNISHED EXCAVATION	CU M	45331	10920	34411													
M2070220	POROUS GRANULAR EMBANKMENT	CU M	207				165				42							
M2070400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU M	1381			185		266	791		139							
M2070420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU M	100															
M2080150	TRENCH BACKFILL	CU M	5272	2253	3019													
M2090410	SAND BACKFILL	CU M	25	25														
M2101000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ M	86042	43354	42688													
M2113150	TOPSOIL FURNISH AND PLACE, 150MM	SQ M	48613	16112	32501													
M2113300	TOPSOIL FURNISH AND PLACE, 300MM	SQ M	16528	16528														
M2114100	COMPOST FURNISH AND PLACE, 100MM	SQ M	124980	21233	103747													
M2500210	SEEDING, CLASS 2A	HA	3.8	0.5	3.3													
M2500310	SEEDING, CLASS 4	HA	10.8	1.7	9.1													
M2500314	SEEDING, CLASS 4B	HA	1.4		1.4													
M2500400	NITROGEN FERTILIZER NUTRIENT	KG	1463	100	1363													
M2500500	PHOSPHORUS FERTILIZER NUTRIENT	KG	1463	100	1363													
M2500600	POTASSIUM FERTILIZER NUTRIENT	KG	1463	100	1363													
□ M2500750	MOWING	HA	2	2														
M2510115	MULCH, METHOD 2	HA	17.2	3.5	13.7													
M2510630	EROSION CONTROL BLANKET	SQ M	132604	10098	122506													
M2520110	SODDING, SALT TOLERANT	SQ M	16528	16528														
M2520200	SUPPLEMENTAL WATERING	UNIT	4621	229	4392													
M2800250	TEMPORARY EROSION CONTROL SEEDING	KG	1770	269	1501													
M2810107	STONE RIPRAP, CLASS A4	SQ M	2404	6	16			802	1580									
M2820200	FILTER FABRIC	SQ M	2920	6	16			1040	1858									
M3111300	SUB-BASE GRANULAR MATERIAL, TYPE B 300MM	SQ M	86042	43354	42688													
M3120100	STABILIZED SUB-BASE 100MM	SQ M	5821	2226	3595													

* SPECIALTY ITEM
** SFTY-3N
△ Y080
△△ Y220 NOISE ABATEMENT WALL
□ NON-PARTICIPATING

REVISIONS	
NAME	DATE

Rev.

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

SUMMARY OF QUANTITIES

HORIZ SCALE: NONE
VERT SCALE: NONE
DATE: JULY 18, 2005
DRAWN BY: JYMC
CHECKED BY: JES

HNTB

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• (0203.1 & 0312-708W) R-3 CONTRACT NO. 62108

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	870	8
STA.		TO STA.		
FED ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CODE	PAY ITEM	UNIT	TOTAL	CONSTRUCTION TYPE CODE															
			URBAN	ACNHI 90% FED. 10% STATE ROADWAY I-94	ACNHF 80% FED. 20% STATE ROADWAY IL 394	IL 394 SB OVER I-80 SN-016-2796	IL 394 SB OVER ONRR SN-016-2798	OVER THORN CREEK IL 394 SB SN-016-2800	OVER THORN CREEK I-94 EB SN-016-2807	RETAINING WALL SN-016-W866	CULVERT SN-016-C012	ACNHF 80% FED. 20% STATE LIGHTING I-94	ACNHI 90% FED. 10% STATE LIGHTING IL 394	ACNHF 80% FED. 20% STATE SIGNING I-94	SIGNING IL 394	ISTHA-ACNHF RAMP F	ACNHI THORN CREEK OVER IL 394 SB SN-016-2845	ACNHI VILLAGE OF SOUTH HOLLAND	
				J000-2A	J000-2A	X271-2A	X181-2A	X071-2A	X071-2A	Y007	Y007	Y030-1E	Y030-1E	Y002-1C	Y002-1C	J000-2A	X071-2A	Y102	
M3120150	STABILIZED SUB-BASE 150MM	SQ M	86042	43354	42688														
M4060200	BITUMINOUS MATERIALS (PRIME COAT)	M TON	1.6	1.3	0.3														
M4202285	PORTLAND CEMENT CONCRETE PAVEMENT 280MM (JOINTED)	SQ M	3227	1131	2096														
M4205000	BRIDGE APPROACH PAVEMENT	SQ M	278	139	139														
M4205050	BRIDGE APPROACH PAVEMENT (SPECIAL)	SQ M	1293	135	1158														
M4205200	PROTECTIVE COAT	SQ M	12910	8394	4307					209									
M4210360	CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 360MM	SQ M	53913	24800	29113														
M4214360	PAVEMENT REINFORCEMENT 360MM	SQ M	53913	24800	29113														
M4217072	LUG SYSTEM COMPLETE 7.2 METER	EACH	1	1															
M4217108	LUG SYSTEM COMPLETE 10.8 METER	EACH	2	1	1														
M4217144	LUG SYSTEM COMPLETE 14.4 METER	EACH	1		1														
M4218000	PROTECTIVE COAT	SQ M	54838	24974	29864														
M4230200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 200MM	SQ M	214	214															
M4240125	PORTLAND CEMENT CONCRETE SIDEWALK 125MM	SQ M	52	52															
M4400045	BITUMINOUS SURFACE REMOVAL 45MM	SQ M	877	604	273														
M4402000	PAVEMENT REMOVAL	SQ M	76288	39756	36532														
M4402010	DRIVEWAY PAVEMENT REMOVAL	SQ M	26	26															
M4402030	GUTTER REMOVAL	METER	822	38	784														
M4402040	COMBINATION CURB AND GUTTER REMOVAL	METER	30	30															
M4402050	SIDEWALK REMOVAL	SQ M	6	6															
M4402060	APPROACH SLAB REMOVAL	SQ M	1214		1214														
M4402530	PAVED SHOULDER REMOVAL	SQ M	10588	3648	6940														
M4402540	PAVEMENT BREAKING	SQ M	5601	820	4781														
M4812280	AGGREGATE SHOULDERS, TYPE B 280MM	SQ M	242	64	178														
M4812360	AGGREGATE SHOULDERS, TYPE B 360MM	SQ M	1104	188	916														
M4820150	BITUMINOUS SHOULDERS, 150MM	SQ M	200.8	200.8															0 △1
M4830150	PORTLAND CEMENT CONCRETE SHOULDERS - 150MM	SQ M	2410	76	2334														
M4830280	PORTLAND CEMENT CONCRETE SHOULDERS - 280MM	SQ M	2223	973	1250														

• SPECIALTY ITEM
•• SFTY-3N
△ Y080
△△ Y220 NOISE ABATEMENT WALL

△1 Rev. 12-5-05

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

SUMMARY OF QUANTITIES

HORIZ SCALE: NONE
VERT SCALE: NONE
DATE: JULY 18, 2005
DRAWN BY: JYMC
CHECKED BY: JES

HNTB

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• (0203.1 & 0312-708W) R-3 CONTRACT NO. 62108

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	870	9
STA.		TO STA.		
FED ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CODE	PAY ITEM	UNIT	TOTAL	URBAN	CONSTRUCTION TYPE CODE															
				ACNHI 90% FED. 10% STATE	ACNHF 80% FED. 20% STATE				ACNHI 90% FED. 10% STATE				ACNHF 80% FED. 20% STATE	ACNHI 90% FED. 10% STATE	ACNHF 80% FED. 20% STATE	ISTHA-ACNHF	ACNHI		
				ROADWAY I-94	ROADWAY IL 394	IL 394 SB OVER I-80 SN-016-2796	IL 394 SB OVER CNRR SN-016-2798	OVER THORN CREEK IL 394 SB SN-016-2800	OVER THORN CREEK I-94 EB SN-016-2807	RETAINING WALL SN-016-W866	CULVERT SN-016-C012	LIGHTING I-94	LIGHTING IL 394	SIGNING I-94	SIGNING IL 394	RAMP F	THORN CREEK OVER IL 394 SB SN-016-2845	SOUTH HOLLAND VILLAGE OF		
				J000-2A	J000-2A	X271-2A	X181-2A	X071-2A	X071-2A	Y007	Y007	Y030-1E	Y030-1E	Y002-1C	Y002-1C	J000-2A	X071-2A	Y102		
M4830360	PORTLAND CEMENT CONCRETE SHOULDERS - 360MM	SQ M	25745	14947	10798															
M4832000	PROTECTIVE COAT	SQ M	30377	15996	14381															
M5010522	PIPE CULVERT REMOVAL	METER	77.5	77.5																
M5020100	STRUCTURE EXCAVATION	CU M	4232 △			667	948	1061 △	483	1073										
M5020200	COFFERDAM EXCAVATION	CU M	470					470												
M5030115	NEOPRENE EXPANSION JOINT 65MM	METER	14				14													
M5030125	NEOPRENE EXPANSION JOINT 100MM	METER	52.1					36.9	15.2											
M5030350	CONCRETE STRUCTURES	CU M	2726.6 △			290.0	397.3	1041 △	565.7	432.6										
M5030360	CONCRETE SUPERSTRUCTURE	CU M	2448.1			323.6	267.9	1078.4	778.2											
M5030380	RUSTICATION FINISH	SQ M	150							150										
M5030390	BRIDGE DECK GROOVING	SQ M	9376			1153	960	4287	2976											
M5030400	SEAL COAT CONCRETE	CU M	134					134												
M5030450	PROTECTIVE COAT	SQ M	10916			1398	1085	4943	3490											
M5041219	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS, 1219MM	METER	587				587													
M5050305	ERECTING STRUCTURAL STEEL	L SUM	1.00			0.11		0.55	0.34											
M5050405	FURNISHING AND ERECTING STRUCTURAL STEEL	KG	2474			190	600	874	810											
M5080105	REINFORCEMENT BARS	KG	87995						73065		14,930									
M5080205	REINFORCEMENT BARS, EPOXY COATED	KG	580,920 △			78830	23390 △	291680	156720	30,300										
M5110100	SLOPE WALL 100 MM	SQ M	2836			1630	1206													
M5120100	FURNISHING METAL PILE SHELLS 305MM	METER	2388							1,725	663									
M5120160	FURNISHING STEEL PILES HP310X79	METER	4192			1650	2542													
M5120180	FURNISHING STEEL PILES HP360X108	METER	3100.2 △					3100.2 △												
M5120315	DRIVING STEEL PILES	METER	7292.2			1650	2542	3100.2												
M5120340	DRIVING AND FILLING SHELLS	METER	2388							1,725	663									
M5120460	TEST PILE STEEL HP310X79	EACH	7			3	4													
M5120480	TEST PILE STEEL HP360X108	EACH	10					10												
M5120900	TEMPORARY SHEET PILING	SQ M	995 △				451		544 △											
M5403000	CONCRETE BOX CULVERTS	CU M	139.4								139.4									

• SPECIALTY ITEM
•• SFTY-3N
△ Y080
△△ Y220 NOISE ABATEMENT WALL

△ Rev. 12-5-05 Rev.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

SUMMARY OF QUANTITIES

HORIZ SCALE: NONE
VERT SCALE: NONE
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F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	870	10
STA.		TO STA.		
FED ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CODE	PAY ITEM	UNIT	TOTAL	URBAN	CONSTRUCTION TYPE CODE: ACNHF 80%FED/20%STATE: ROADWAY I-94	ACNHI 90%FED/10%STATE: ROADWAY IL 394	ACNHI 90%FED/10%STATE: IL 394 SB OVER I-80 SN-016-2796	ACNHI 90%FED/10%STATE: IL 394 SB OVER CNRR SN-016-2798	ACNHI 90%FED/10%STATE: OVER THORN CREEK IL 394 SB SN-016-2800	ACNHI 90%FED/10%STATE: OVER THORN CREEK I-94 EB SN-016-2807	ACNHI 90%FED/10%STATE: RETAINING WALL SN-016-W866	ACNHI 90%FED/10%STATE: CULVERT SN-016-C012	ACNHF 80%FED/20%STATE: LIGHTING I-94	ACNHI 90%FED/10%STATE: LIGHTING IL 394	ACNHF 80%FED/20%STATE: SIGNING I-94	ACNHF 80%FED/20%STATE: SIGNING IL 394	ISTHA-ACNHF: RAMP F	ACNHI: THORN CREEK OVER IL 394 SB SN-016-2845	ACNHI: VILLAGE OF SOUTH HOLLAND	
					J000-2A	J000-2A	X271-2A	X181-2A	X071-2A	X071-2A	Y007	Y007	Y030-1E	Y030-1E	Y002-1C	Y002-1C	J000-2A	X071-2A	Y102	
M542E112	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 300MM	EACH	4			4														
M542E128	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 600MM	EACH	2			2														
M542G035	GRATING FOR CONCRETE FLARED END SECTION 600MM	EACH	2			2														
M5502840	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 300MM	METER	317.5		26.0	291.5														
M5502850	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 375MM	METER	31.5		2.5	29.0														
M5503050	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III, 300MM	METER	508.5		333.0	175.5														
M5503060	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III, 375MM	METER	253.0		156.5	96.5														
M5503090	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III, 600MM	METER	178.0		36.5	141.5														
M5503260	STORM SEWERS, TYPE 3, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 300MM	METER	60.0		60.0															
M5510025	STORM SEWER REMOVAL 300MM	METER	1871.5		989.5	882.0														
M5510035	STORM SEWER REMOVAL 375MM	METER	563.5			563.5														
M5510045	STORM SEWER REMOVAL 450MM	METER	400.0		22.0	378.0														
M5510055	STORM SEWER REMOVAL 525MM	METER	39.0		18.0	21.0														
M5510060	STORM SEWER REMOVAL 600MM	METER	341.5		48.0	257.5	[illegible]	△									36	△		
M5510070	STORM SEWER REMOVAL 750MM	METER	120.5		89.5	31.0														
M5870020	BRIDGE SEAT SEALER	SQ M	168.2	△			32.0	33.0	80	△ 23.2										
M6010085	GEOTECHNICAL FABRIC FOR FRENCH DRAINS	SQ M	1804.5		1759.9	44.6														
M6010610	PIPE UNDERDRAINS 150MM	METER	8603.5		4220.5	4383.0														
M6010710	PIPE UNDERDRAINS 150MM (SPECIAL)	METER	241.0		101.0	140.0														
M6020105	CATCH BASINS, TYPE A, 1.2M DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	7		2	5														
M6020140	CATCH BASINS, TYPE A, 1.2M DIAMETER, TYPE 8 GRATE	EACH	4			4														
M6020405	CATCH BASINS, TYPE A, 1.5M DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1			1														
M6021410	MANHOLES, TYPE A, 1.2M DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4		4															
M6021610	MANHOLES, TYPE A, 1.5M DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3		3															
M6060010	CLASS SI CONCRETE (OUTLET)	CU M	3.435		3.435															
M6060070	CONCRETE CURB, TYPE B	METER	74.4		10	64.4														
M6060260	CONCRETE GUTTER, TYPE A	METER	64.2		50.4	13.8														
• M6060270	CONCRETE GUTTER, TYPE A (MODIFIED)	METER	119		119															
M6060500	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-15.30	METER	29		29															

• SPECIALTY ITEM
** SFTY-3N
△ Y080
△△ Y220 NOISE ABATEMENT WALL

△ Rev. 12-5-05 Rev.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

SUMMARY OF QUANTITIES

HORIZ SCALE: NONE
VERT SCALE: NONE
DATE: JULY 18, 2005
DRAWN BY: JYMC
CHECKED BY: JES

HNTB

• (0203.1 & 0312-708W) R-3 CONTRACT NO. 62108

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	870	11
STA.		TO STA.		
FED ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CODE	PAY ITEM	UNIT	TOTAL	CONSTRUCTION TYPE CODE: J000-2A	J000-2A	X271-2A	X181-2A	X071-2A	X071-2A	Y007	Y007	Y030-1E	Y030-1E	Y002-1C	Y002-1C	J000-2A	X071-2A	Y102
			URBAN	ACNHF 80% FED. 20% STATE: ROADWAY I-94	ROADWAY IL 394	ACNHI 90% FED. 10% STATE: IL 394 SB OVER I-80 SN-016-2796	IL 394 SB OVER ONRR SN-016-2798	IL 394 SB OVER THORN CREEK SN-016-2800	I-94 EB OVER THORN CREEK SN-016-2807	RETAINING WALL SN-016-W866	CULVERT SN-016-C012	ACNHF 80% FED. 20% STATE: LIGHTING I-94	ACNHI 90% FED. 10% STATE: LIGHTING IL 394	ACNHF 80% FED. 20% STATE: SIGNING I-94	SIGNING IL 394	ISTHA-ACNHF: RAMP F	ACNHI: IL 394 SB OVER THORN CREEK SN-016-2845	VILLAGE OF SOUTH HOLLAND
M6063620	CONCRETE MEDIAN SURFACE, 150MM	SQ M	18	18														
* M6300100	STEEL PLATE BEAM GUARD RAIL, TYPE A	METER	2804.19	301.02	2503.17													
* M6300130	STEEL PLATE BEAM GUARD RAIL, TYPE D	METER	388.62		388.62													
M6320030	GUARDRAIL REMOVAL	METER	1042	62	980													
M6370275	CONCRETE BARRIER, DOUBLE FACE, 1065 MM HEIGHT	METER	1532	1379	153													
M6370805	CONCRETE BARRIER TRANSITION	METER	188	171	17													
M6371050	CONCRETE BARRIER BASE	METER	2781	2100	681													
•M6380205	CONCRETE GLARE SCREEN, SPECIAL	METER	14.5									11.6	2.9					
M6380600	MODULAR GLARE SCREEN SYSTEM	METER	4280	1615	2665													
M6420015	SHOULDER RUMBLE STRIP	METER	12341	8182	4159													
M6640120	CHAIN LINK FENCE, 1.8 METER	METER	1164.5	709.0	455.5													
M6641620	CHAIN LINK GATES, 1.8M X 3.7M DOUBLE	EACH	2	1	1													
M6641650	CHAIN LINK GATES, 1.8M X 5.5M DOUBLE	EACH	3	1	2													
M7030240	TEMPORARY PAVEMENT MARKING - LINE 150MM	METER	711	711														
M7030520	PAVEMENT MARKING TAPE, TYPE III 100MM	METER	17980	8840	9140													
M7030530	PAVEMENT MARKING TAPE, TYPE III 125MM	METER	749	488	261													
M7030550	PAVEMENT MARKING TAPE, TYPE III 200MM	METER	4679	2799	1880													
M7030560	PAVEMENT MARKING TAPE, TYPE III 300MM	METER	436	200	236													
M7031000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ M	3665	1927	1738													
M7040100	TEMPORARY CONCRETE BARRIER	METER	1815.3	461.3	1354.0													
M7040210	RELOCATE TEMPORARY CONCRETE BARRIER (SPECIAL)	METER	6390	3772	2618													
* M7200100	SIGN PANEL - TYPE 1	SQ M	25.31 △										△ 22.61	2.70				
* M7200200	SIGN PANEL - TYPE 2	SQ M	19.44											7.56	11.88			
* M7200300	SIGN PANEL - TYPE 3	SQ M	316.42											235.53	80.89			
* M7240310	REMOVE SIGN PANEL - TYPE 1	SQ M	0.75											0.75				
* M7240320	REMOVE SIGN PANEL - TYPE 2	SQ M	6.84											2.88	3.96			
* M7240330	REMOVE SIGN PANEL - TYPE 3	SQ M	61.82											39.78	22.04			
* M7240730	RELOCATE SIGN PANEL - TYPE 3	SQ M	7.20											7.20				

* SPECIALTY ITEM
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REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

SUMMARY OF QUANTITIES

HORIZ SCALE: NONE
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• (0203.1 & 0312-708W) R-3 CONTRACT NO. 62108

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	870	13
STA.		TO STA.		
FED ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

	CODE	PAY ITEM	UNIT	TOTAL	CONSTRUCTION TYPE CODE														
					ACNHI 90% FED. 10% STATE URBAN	ACNHF 80% FED. 20% STATE			ACNHI 90% FED. 10% STATE				ACNHF 80% FED. 20% STATE	ACNHI 90% FED. 10% STATE	ACNHF 80% FED. 20% STATE	ISTHA-ACNHF	ACNHI		
					ROADWAY I-94	ROADWAY IL 394	IL 394 SB OVER I-90 SN-016-2796	IL 394 SB OVER ONRR SN-016-2798	IL 394 SB OVER THORN CREEK SN-016-2800	IL 394 SB OVER THORN CREEK SN-016-2807	I-94 EB OVER THORN CREEK SN-016-2807	RETAINING WALL SN-016-W866	CULVERT SN-016-C012	LIGHTING I-94	LIGHTING IL 394	SIGNING I-94	SIGNING IL 394	RAMP F	THORN CREEK SN-016-2845 OVER IL 394 SB	VILLAGE OF SOUTH HOLLAND
					J000-2A	J000-2A	X271-2A	X181-2A	X071-2A	X071-2A	Y007	Y007	Y030-1E	Y030-1E	Y002-1C	Y002-1C	J000-2A	X071-2A	Y102
•	M8120100	CONDUIT EMBEDDED IN STRUCTURE, 25MM DIA., RIGID GALVANIZED STEEL	METER	6										6					
•	MX033579	CONDUIT EMBEDDED IN STRUCTURE, 1- 100MM DIA., 30MM DIA., CNC, 4 WIDE BY 2 HIGH	METER	1371.6									1371.6						
*	M8120230	CONDUIT EMBEDDED IN STRUCTURE, 50 MM DIA. PVC	METER	2238										2238					
*	M8120270	CONDUIT EMBEDDED IN STRUCTURE, 100 MM DIA. PVC	METER	256									16	240					
*	M8130195	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 300MM X 300MM X 150MM	EACH	3									1	2					
*	M8131400	JUNCTION BOX, NON-METALLIC, EMBEDDED IN STRUCTURE, 525MM X 275MM X 200MM	EACH	34									4	30					
*	M8150200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	METER	668.1									416.9	251.2					
*	M8360100	LIGHT POLE FOUNDATION, 600MM DIAMETER	METER	62									62						
△△	MX033581	BARRIER SUPPORT STRUCTURE FOR NOISE ABATEMENT WALL	METER	1,314	1,314														
•	M7802QZ	POLYUREA PAVEMENT MARKING TYPE I - LINE 125MM	METER	3699	2080	1619													
•	MX033555	PAINT PAVEMENT MARKING - LINE 125MM (SPECIAL)	METER	155	112	43													
	MX033571	ERECTING FLOATING BEARINGS, GUIDED EXPANSION 2000 KN	EACH	10					10										
	MX033572	ERECTING FLOATING BEARINGS, GUIDED EXPANSION 8000 KN	EACH	1						1									
	MX030573	ERECTING FLOATING BEARINGS, FIXED - 2250 KN	EACH	12					12										
	MX033573	SLIP-ON FLAT BOTTOM CHECK VALVE, 375MM	EACH	1	1														
	MX033533	ERECTING MODULAR EXPANSION JOINT 160MM	METER	14.7						14.7									
•	MX033568	CONDUIT ATTACHED TO STRUCTURE, 3-100MM DIA., GALVANIZED STEEL, PVC COATED	METER	208.4										208.4					
•	MZ008990	DRILLED SHAFT IN SOIL 1980MM	METER	12.9						12.9									
	MZ001045	AGGREGATE SUBGRADE 225MM	SQ M	1119		1119													
	MX033574	RECLAIMED ASPHALT PAVEMENT (RAP), 75MM	SQ M	1119		1119													
	X0325176	CONCRETE FILLED STEEL POST	EACH	7	7														
*	X0325130	TUBULAR TRAFFIC SIGN POST	EACH	6											6				
	MX030144	CATCH BASINS, 1.2M BY 0.9M SPECIAL, TYPE 20 FRAME AND GRATE	EACH	25	20	5													
	MX030170	CATCH BASINS, 1.2M BY 1.5M SPECIAL, TYPE 22 FRAME AND GRATE	EACH	3	3														
	MX030236	REMOVE STEEL SHEET PILING	SQ M	288 △					288 △										
	MX030257	ERECTING FLOATING BEARINGS, GUIDED EXPANSION 1250KN	EACH	2						2									
	MX030258	ERECTING FLOATING BEARINGS, GUIDED EXPANSION 1500KN	EACH	12						12									
	MX030272	ERECTING FLOATING BEARINGS, GUIDED EXPANSION 750KN	EACH	12						12									

• SPECIALTY ITEM
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ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

SUMMARY OF QUANTITIES

HORIZ SCALE: NONE
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F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	870	14
STA.		TO STA.		
FED ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

	CODE	PAY ITEM	UNIT	TOTAL	CONSTRUCTION TYPE CODE: URBAN	ROADWAY I-94	ROADWAY IL 394	IL 394 SB OVER I-80 SN-016-2796	IL 394 SB OVER CNRR SN-016-2798	OVER THORN CREEK IL 394 SB SN-016-2800	OVER THORN CREEK I-94 EB SN-016-2807	RETAINING WALL SN-016-W866	CULVERT SN-016-C012	LIGHTING I-94	LIGHTING IL 394	SIGNING I-94	SIGNING IL 394	RAMP F	THORN CREEK SN-016-2845	IL 394 SB OVER SOUTH HOLLAND	VILLAGE OF
						ACNHI 90% FED. 10% STATE	ACNHF 80% FED. 20% STATE			ACNHI 90% FED. 10% STATE			ACNHF 80% FED. 20% STATE	ACNHI 90% FED. 10% STATE	ACNHF 80% FED. 20% STATE	ISTHA-ACNHF	ACNHI				
•	MX030301	CONDUIT ATTACHED TO STRUCTURE,100MM DIA. GALVANIZED STEEL, PVC COATED	METER	3										3							
△△	MX030355	NOISE ABATEMENT WALL, GROUND MOUNTED	SQ M	2181	2181																
△△	MX030356	NOISE ABATEMENT WALL, STRUCTURE MOUNTED	SQ M	6408	6408																
	MX030504	TEMPORARY PAVEMENT (INTERSTATE)	SQ M	1581	608	973															
	MX030507	STORM SEWERS AND CULVERTS TO BE GROUTED	CU M	92		92															
	MX030523	ERECTING FLOATING BEARINGS, FIXED 1500 KN	EACH	12							12										
•	MX032160	CONDUIT ENCASED, REINFORCED CONCRETE, 100MM DIA. PVC, 2 WIDE X 1 HIGH	METER	280										157	123						
•	MX032161	CONDUIT ENCASED, REINFORCED CONCRETE, 100MM DIA. PVC, 2 WIDE X 2 HIGH	METER	55											55						
	MX032178	TEMPORARY INFORMATION SIGNING	SQ M	135.46	61.61	73.85															
	MX032651	MULCH PLACEMENT 100MM	SQ M	8370		8370															
	MX032708	STRIP SEAL EXPANSION JOINT ASSEMBLY	METER	44.7			29.4			15.3											
	MX033141	BRIDGE JOINT SYSTEM (EXPANSION), 25MM	METER	15.4				15.4													
	MX033183	SOIL STABILIZERS	KG	1501496	305928	1195568	△														
	MX033276	TEMPORARY SOIL RETENTION SYSTEM	SQ M	915.5 △		775					79 △		61.5								
	MX033290	SEDIMENT CONTROL, SILT FENCE	METER	2877	1814	1063															
	MX033291	SEDIMENT CONTROL, SILT FENCE MAINTENANCE	METER	1239	707	532															
	MX033292	SEDIMENT CONTROL, STABILIZED CONSTRUCTION ENTRANCE	SQ M	900	900																
	MX033303	SEDIMENT CONTROL, STABILIZED CONSTRUCTION ENTRANCE MAINTENANCE	SQ M	900	900																
	MX033387	CONDUIT ATTACHED TO STRUCTURE, 25MM DIA., RIGID GALVANIZED STEEL, PVC COATED	METER	3										3							
	MX355150	BITUMINOUS BASE COURSE SUPERPAVE, 150MM	SQ M	33	33																
	MX406012	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	M TON	5	5																
	MX406078	POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "F", N105	M TON	104	72	32															
	MX406210	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-25.0, N105	M TON	42	28	14															
	MX407440	BITUMINOUS CONCRETE PAVEMENT (FULL-DEPTH), SUPERPAVE, 290MM	SQ M	258	258																
	MX482460	BITUMINOUS SHOULDERS SUPERPAVE 330MM	SQ M	492	492																
	MX602310	CATCH BASINS, 1.2M BY 0.9M, TYPE 20 FRAME AND GRATE	EACH	7	7																
	MX637150	CONCRETE BARRIER, SINGLE FACE, 1065 MM HEIGHT, REINFORCED	METER	1061	550	511															
	MX704200	REMOVE TEMPORARY CONCRETE BARRIER	METER	8937.4	4094.20	4843.20															

• SPECIALTY ITEM
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△ Y080
△△ Y220 NOISE ABATEMENT WALL

△ Rev. 12-5-05

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ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

SUMMARY OF QUANTITIES

HORIZ SCALE: NONE
VERT SCALE: NONE
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HNTB

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F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	870	15
STA.		TO STA.		
FED ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CODE	PAY ITEM	UNIT	TOTAL	URBAN	ACNHI 90% FED. 10% STATE	ACNHF 80% FED. / 20% STATE			ACNHI 90% FED. / 10% STATE				ACNHF 80% FED. 20% STATE		ISTHA-ACNHF	ACNHI	ACNHF 80% FED. 20% STATE	ACNHI 90% FED. 10% STATE		ACNHF 80% FED. 20% STATE	ISTHA-ACNHF	ACNHI	
					ROADWAY I-94	ROADWAY IL 394	IL 394 SB OVER I-80 SN-016-2796	IL 394 SB OVER CNRR SN-016-2798	IL 394 SB OVER THORN CREEK SN-016-2800	IL 394 SB OVER THORN CREEK SN-016-2807	I-94 EB RETAINING WALL SN-016-W866	CULVERT SN-016-C012	LIGHTING I-94	LIGHTING IL 394	SIGNING I-94	SIGNING IL 394	RAMP F	THORN CREEK SN-016-2845	IL 394 SB OVER SOUTH HOLLAND	VILLAGE OF				
					CONSTRUCTION TYPE CODE																		
					J000-2A	J000-2A	X271-2A	X181-2A	X071-2A	X071-2A	Y007	Y007	Y030-1E	Y030-1E	Y002-1C	Y002-1C	J000-2A	X071-2A	Y102				
MZ001050	AGGREGATE SUBGRADE 300MM	SQ M	5852		2226	3595											31						
• MZ008810	DRILLED SHAFT IN SOIL 610MM	METER	25.0							25.0													
• MZ008830	DRILLED SHAFT IN SOIL 915MM	METER	49.0							49.0													
• MZ008860	DRILLED SHAFT IN SOIL 1220MM	METER	298.1							298.1													
• MZ008876	DRILLED SHAFT IN SOIL 1676MM	METER	130.1							130.1													
MZ013825	CONTROLLED LOW-STRENGTH MATERIAL	CU M	60.8 △				16.2	14.6	30 △														
MZ022800	FENCE REMOVAL	METER	1784		1776	8																	
MZ039300	PERMANENT CASING	METER	286.4							286.4													
MZ047300	PROTECTIVE SHIELD	SQ M	803				562	241															
MZ064800	SELECTIVE CLEARING	UNIT	93			93																	
MZ065755	SLOTTED DRAIN 300MM WITH VARIABLE SLOT HEIGHT	METER	239.5			239.5																	
X0301229	ACCIDENT INVESTIGATION SITE	CAL MO	16		8	8																	
X0320333	ROADWAY CLEANING (SPECIAL)	EACH	18		9	9																	
X0322917	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	EACH	18		1	17																	
X0323082	DRAINAGE SCUPPERS, DS-33	EACH	3					1	2														
X0323426	SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER CLEANING	EACH	331		295	36																	
X0323830	DRAINAGE SCUPPERS, DS-11	EACH	15				1		9	5													
X0324044	EROSION CONTROL, TEMPORARY PIPE SLOPE DRAIN	EACH	10		3	7																	
X0324045	SEDIMENT CONTROL, STABILIZED CONSTRUCTION ENTRANCE REMOVAL	EACH	4		2	2																	
X0324587	NOISE ABATEMENT WALL ANCHOR ROD ASSEMBLY	EACH	46								46												
X0324698	APPLY DUST SUPPRESSION AGENTS	UNITS	5775 △		913	4862																	
X0504200	CONCRETE HEADWALL	EACH	1		1																		
X0976500	END SECTIONS TO BE REMOVED	EACH	6		1	5																	
X4210390	LUG SYSTEM COMPLETE (SPECIAL)	EACH	1			1																	
X6020166	DRAINAGE STRUCTURES, TYPE 1 SPECIAL WITH TWO TYPE 20 FRAME AND GRATES	EACH	4		4																		
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1		0.44	0.53											0.03						
X7013820	TRAFFIC CONTROL SURVEILLANCE, EXPRESSWAYS	CAL DA	240		108	132																	
X7015000	CHANGEABLE MESSAGE SIGN	CAL MO	8			8																	

• SPECIALTY ITEM
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ILLINOIS DEPARTMENT OF TRANSPORTATION
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SUMMARY OF QUANTITIES

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HNTB

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F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	870	16
STA.		TO STA.		
FED ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

	CODE	PAY ITEM	UNIT	TOTAL	CONSTRUCTION TYPE CODE: URBAN														
					ACNHI 90% FED. 10% STATE — ROADWAY I-94	ACNHF 80% FED./20% STATE — ROADWAY IL 394	ACNHF 80% FED./20% STATE — IL 394 SB OVER I-80 SN-016-2796	ACNHF 80% FED./20% STATE — IL 394 SB OVER CNRR SN-016-2798	ACNHF 80% FED./20% STATE — OVER THORN CREEK IL 394 SB SN-016-2800	ACNHI 90% FED. 10% STATE — OVER THORN CREEK IL 394 SB SN-016-2807	ACNHI 90% FED. 10% STATE — I-94 EB OVER THORN CREEK SN-016-2807	ACNHI 90% FED. 10% STATE — RETAINING WALL SN-016-W866	ACNHI 90% FED. 10% STATE — CULVERT SN-016-C012	ACNHF 80% FED. 20% STATE — LIGHTING I-94	ACNHI 90% FED. 10% STATE — LIGHTING IL 394	ACNHF 80% FED. 20% STATE — SIGNING I-94	ACNHI 90% FED. 10% STATE — SIGNING IL 394	ISTHA-ACNHF — RAMP F	ACNHI — THORN CREEK SN-016-2845 OVER IL 394 SB	ACNHI — VILLAGE OF SOUTH HOLLAND
	Z0002600	BAR SPLICERS	EACH	464			98	89	120	98		59							
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.44	0.53											0.03		
••	Z0029999	IMPACT ATTENUATOR REMOVAL	EACH	5	3	2													
••	Z0030030	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2		2													
••	Z0030070	IMPACT ATTENUATORS (SEVERE USE, NARROW), TEST LEVEL 3	EACH	2	1	1													
••	Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	1	1														
••	Z0030240	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	EACH	2		2													
••	Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	27	5	22													
••	Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4		4													
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1				1											
△	Z0076600	TRAINEES	HOUR	500	250	250													
	TWY00010	ROADWAY EXCAVATION, COMMON	CU M	14005													14005		
	TWY00020	ROADWAY EXCAVATION, UNCOMMON	CU M	1685													1685		
	TWY00040	STRUCTURE EXCAVATION, COMMON	CU M	154														154	
	TWY00050	EMBANKMENT, ZONE A	CU M	8645													8645		
	TWY00060	EMBANKMENT, ZONE B	CU M	7960													7960		
	TWY00070	POROUS GRANULAR BACKFILL	CU M	124													78	46	
	TWY00080	SELECTED SUBGRADE	CU M	739													739		
	TWY00140	RIPRAP, HAND-LAID	SQ M	164													16	148	
	TWY00160	GRANULAR SUBBASE	CU M	522													522		
	TWY00180	PORTLAND CEMENT CONCRETE PAVEMENT (300MM)	SQ M	1747													1747		
	TWY00220	BITUMINOUS MATERIALS (TACK)	LITER	85													85		
	TWY00250	BITUMINOUS CONCRETE SHOULDERS (150MM)	SQ M	1517													1517		
	TWY00370	STUD-TYPE SHEAR CONNECTORS	EACH	6093														6093	
	TWY00380	FURNISHING AND ERECTING STRUCTURAL STEEL (MISCELLANEOUS)	KG	111														111	
	TWY00400	REINFORCING STEEL, EPOXY COATED	KG	30531													731	29800	
	TWY00410	FURNISHING STEEL PILES	METER	425														425	
	TWY04113	DRIVING STEEL PILES	EACH	28	△													28	△

• SPECIALTY ITEM
•• SFTY-3N
△ Y080
△△ Y220 NOISE ABATEMENT WALL

△ Rev. 12-5-05

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

SUMMARY OF QUANTITIES

HORIZ SCALE: NONE
VERT SCALE: NONE
DATE: JULY 18, 2005
DRAWN BY: JYMC
CHECKED BY: JES

HNTB

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• (0203.1 & 0312-708W) R-3 CONTRACT NO. 62108

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	870	17
STA.		TO STA.		
FED ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CODE	PAY ITEM	UNIT	TOTAL	CONSTRUCTION TYPE CODE: URBAN	ACNHI 90% FED. 10% STATE: ROADWAY I-94	ACNHF 80% FED/20% STATE: ROADWAY IL 394	ACNHF 80% FED/20% STATE: IL 394 SB OVER I-80 SN-016-2796	ACNHF 80% FED/20% STATE: IL 394 SB OVER CNRR SN-016-2798	ACNHI 90% FED/10% STATE: OVER THORN CREEK IL 394 SB SN-016-2800	ACNHI 90% FED/10% STATE: OVER THORN CREEK I-94 EB SN-016-2807	ACNHI 90% FED/10% STATE: RETAINING WALL SN-016-W666	ACNHI 90% FED/10% STATE: CULVERT SN-016-C012	ACNHF 80% FED. 20% STATE: LIGHTING I-94	ACNHI 90% FED. 10% STATE: LIGHTING IL 394	ACNHF 80% FED 20% STATE: SIGNING I-94	ACNHF 80% FED 20% STATE: SIGNING IL 394	ISTHA-ACNHF: RAMP F	ISTHA-ACNHF: THORN CREEK SN-016-2845	ACNHI: IL 394 SB OVER SOUTH HOLLAND	ACNHI: VILLAGE OF HOLLAND
				CONSTRUCTION TYPE CODE:	J000-2A	J000-2A	X271-2A	X181-2A	X071-2A	X071-2A	Y007	Y007	Y030-1E	Y030-1E	Y002-1C	Y002-1C	J000-2A	X071-2A	Y102	
TWY04142	BRIDGE EXPANSION JOINT CLOSURE PREFORMED JOINT SEAL 100MM	METER	10.7															10.7		
TWY04143	FURNISH AND INSTALL SIGN, TYPE 2	SQ M	1.44														1.44			
TWY04149	BITUMINOUS BASE COURSE (100MM)	SQ M	102														102			
TWY04144	HIGH PERFORMANCE CONCRETE FOR BRIDGES & DRAINAGE STRUCTURES (CLASS DK-HPC)	CU M	126.4															126.4		
TWY04145	CONCRETE FOR BRIDGES AND DRAINAGE STRUCTURES (CLASS SD)	CU M	38.9														6	32.9		
TWY04146	CONCRETE FOR BRIDGES AND DRAINAGE STRUCTURES (CLASS SP)	CU M	89.9															89.9		
TWY04147	BRIDGE EXPANSION JOINT CLOSURE NEOPRENE SEAL AND ANCHOR BLOCKS 100MM	METER	10.5															10.5		
TWY04150	GUARDRAIL ANCHOR INSTALLATION, TYPE 3	EACH	2														2			
TWY04148	CLEARING	HA	2														2			
MX033697	AGGREGATE SUBBASE (300 MM)	SQ M	102														102	△		
* MX033576	CONDUIT IN TRENCH, 2-100MM DIA., GALVANIZED STEEL, PVC COATED	METER	15.1											15.1						
* MX033577	CONDUIT ATTACHED TO STRUCTURE, 2-100MM DIA., RIGID GALVANIZED STEEL, PVC COATED	METER	210.8											210.8						
MX033575	REMOVE MSE RETAINING WALL	SQ M	202	22	180															

△ Rev. 12-5-05

• SPECIALTY ITEM
** SFTY-3N
△ Y080
△△ Y220 NOISE ABATEMENT WALL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

SUMMARY OF QUANTITIES

HORIZ SCALE: NONE
VERT SCALE: NONE
DATE: JULY 18, 2005

DRAWN BY: JYMC
CHECKED BY: JES

HNTB

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F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	870	41
STA.		TO STA.		
FED ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

ROADWAY SCHEDULE - PROPOSED

LOCATION			GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SUB BASE GRANULAR MATERIAL TYPE B 300MM	AGGREGATE SUBGRADE 300MM	STABILIZED SUB BASE 100MM	STABILIZED SUB BASE 150MM	AGGREGATE SHOULDERS TYPE B 280MM	BITUMINOUS MATERIALS (PRIME COAT)	POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX"E", N105	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL 25.0, N105	PORTLAND CEMENT CONCRETE PAVEMENT 280MM (JOINTED)	BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH), SUPERPAVE, 290MM
			SQ M	SQ M	SQ M	SQ M	SQ M	SQ M	M TON	M TONS	M TONS	SQ M	SQ M
I-94	18+363	TO 18+725	4385	4385	2186	2186	4385	64	0.9	72	28	1109	0
	18+725	TO 19+050	8033	8033	40	40	8033	0	0.4	0	0	22	258
	19+050	TO 19+350	7189	7189	0	0	7189	0	0	0	0	0	0
	19+350	TO 19+700	8388	8388	0	0	8388	0	0	0	0	0	0
	19+700	TO 20+000	8479	8479	0	0	8479	0	0	0	0	0	0
IL 394	38+265	TO 38+865	5305	5305	0	0	5305	0	0.3	31.5	14	0	0
	38+865	TO 39+240	7088	7088	0	0	7088	0	0	0	0	0	0
	39+240	TO 39+600	7308	7308	0	0	7308	0	0	0	0	0	0
	39+600	TO 39+850	1852	1852	1246	1246	1852	0	0	0	0	897	0
	39+850	TO 40+200	4569	4569	2349	2349	4569	178	0	0	0	1199	0
	40+200	TO 40+550	3748	3748	0	0	3748	0	0	0	0	0	0
	40+550	TO 40+900	5292	5292	0	0	5292	0	0	0	0	0	0
	40+900	TO 41+167.161	7526	7526	0	0	7526	0	0	0	0	0	0
		TOTAL	79162	79162	5821	5821	79162	242	1.6	104	42	3227	258

LOCATION			BRIDGE APPROACH PAVEMENT (SPECIAL)	CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 360MM	PAVEMENT REINFORCEMENT 360MM	LUG SYSTEM COMPLETE 7.2 METERS	LUG SYSTEM COMPLETE 10.8 METERS	LUG SYSTEM COMPLETE 14.4 METERS	AGGREGATE SHOULDERS TYPE B 360MM	PORTLAND CEMENT CONCRETE SHOULDERS 150MM	PORTLAND CEMENT CONCRETE SHOULDERS 280MM	PORTLAND CEMENT CONCRETE SHOULDERS 360MM	STEEL PLATE BEAM GUARD RAIL, TYPE A
			SQ M	SQ M	SQ M	EACH	EACH	EACH	SQ M	SQ M	SQ M	SQ M	METER
I-94	18+363	TO 18+725	0	2188	2188	0	1	0	62	28	959	1760	0.00
	18+725	TO 19+050	0	4947	4947	0	0	0	0	0	14	2468	0.00
	19+050	TO 19+350	0	4504	4504	0	0	0	0	0	0	1982	0.00
	19+350	TO 19+700	0	5252	5252	0	0	0	0	0	0	2387	0.00
	19+700	TO 20+000	0	5134	5134	0	0	0	0	0	0	2657	266.70
IL 394	38+265	TO 38+865	0	2904	2904	0	0	1	161	339	0	1853	384.81
	38+865	TO 39+240	0	5400	5400	0	0	0	169	518	0	1350	697.23
	39+240	TO 39+600	0	5859	5859	0	0	0	59	397	0	1151	655.32
	39+600	TO 39+850	713	1238	1238	0	1	0	0	166	295	380	167.64
	39+850	TO 40+200	133	3150	3150	0	0	0	110	224	955	1179	102.87
	40+200	TO 40+550	312	2652	2652	0	0	0	147	213	0	876	148.59
	40+550	TO 40+900	0	2900	2900	1	0	0	114	462	0	1747	346.71
	40+900	TO 41+167.161	0	5010	5010	0	0	0	156	15	0	2262	0.00
I-94 EB	20+625	TO 20+925	135	0	0	0	0	0	0	0	0	0	
		TOTAL	1293	51138	51138	1	2	1	978	2362	2223	22052	2769.87

LOCATION			STEEL PLATE BEAM GUARD RAIL, TYPE D	TRAFFIC BARRIER TERMINAL, TYPE 2	TRAFFIC BARRIER TERMINAL, TYPE 5	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)	CONCRETE BARRIER SINGLE FACE 1065MM HEIGHT REINFORCED	CONCRETE BARRIER DOUBLE FACE 1065MM HEIGHT	CONCRETE BARRIER TRANSITION	CONCRETE BARRIER BASE	CHAIN LINK FENCE 1.8 METER	CHAIN LINK GATES 1.8M X 3.7M DOUBLE
			METER	EACH	EACH	EACH	EACH	METER	METER	METER	METER	METER	EACH
I-94	18+363	TO 18+725	0.00	0	0	0	0	66	292	10	368	6.0	0
	18+725	TO 19+050	0.00	0	0	0	0	0	319	6	325	0.0	0
	19+050	TO 19+350	0.00	0	0	0	0	0	298	0	298	0.0	0
	19+350	TO 19+700	0.00	0	0	0	0	0	348	0	348	0.0	0
	19+700	TO 20+000	0.00	0	0	0	0	0	122	155	277	703.0	1
IL 394	38+265	TO 38+865	133.35	1	0	0	0	0	0	0	0	0.0	0
	38+865	TO 39+240	0.00	0	0	0	0	0	0	0	0	0.0	0
	39+240	TO 39+600	0.00	0	0	0	0	220	0	0	220	230.5	1
	39+600	TO 39+850	53.34	1	1	1	0	101	0	0	101	0.0	0
	39+850	TO 40+200	201.93	1	2	0	1	0	0	0	0	0.0	0
	40+200	TO 40+550	0.00	0	2	2	2	0	0	0	0	0.0	0
	40+550	TO 40+900	0.00	0	0	4	4	0	0	0	0	160.0	0
	40+900	TO 41+167.161	0.00	0	0	0	0	190	153	17	360	65.0	0
I-94 EB	20+625	TO 20+925											
		TOTAL	388.62	3	5	7	7	577	1532	188	2297	1164.5	2

NOTE:
THE SCHEDULES ON THIS PAGE MAY NOT REFLECT
ITEMS QUANTIFIED BETWEEN:
℄ I-94 EB STA. 20+657.900 TO STA. 21+222.210,
℄ I-94 WB STA. 30+785.473 TO STA. 31+020.000, AND
MDTPE94 STA. 25+178.451 TO STA. 25+516.450

REVISIONS	
NAME	DATE
⚠ REVISED, MAM	11/30/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

SCHEDULE OF QUANTITIES

HORIZ SCALE:
VERT SCALE:
DATE: JULY 18, 2005
DRAWN BY: BJM
CHECKED BY: JES

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• (0203.1 & 0312-T08W) R-3 CONTRACT NO. 62108

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	870	46
STA.		TO STA.		
FED ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SIGNING AND PAVEMENT MARKING SCHEDULE

LOCATION		SHOULDER RUMBLE STRIP	RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	THERMOPLASTIC PAVEMENT MARKING - LINE 100MM	THERMOPLASTIC PAVEMENT MARKING - LINE 200MM	THERMOPLASTIC PAVEMENT MARKING - LINE 300MM	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 125 MM	POLYUREA PAVEMENT MARKING, TYPE 1 - LETTERS AND SYMBOLS	POLYUREA PAVEMENT MARKING, TYPE 1 - LINE 100MM	POLYUREA PAVEMENT MARKING, TYPE 1 - LINE 125MM
		METER	EACH	EACH	METER	METER	METER	METER	SQ M	METER	METER
I-94	Begin TO 18+725	831	280	0	1100	476	37	391	0	1156	214
	18+725 TO 19+000	885	141	0	0	0	23	0	7	698	329
	19+000 TO 19+350	1400	172	0	0	0	0	0	7	1050	438
	19+350 TO 19+700	1400	175	0	0	0	0	0	7	1190	442
	19+700 TO 20+000	1200	151	0	0	0	0	0	0	1199	301
IL 394	Begin TO 38+875	1238	160	0	2556	0	0	320	0	1282	196
	38+875 TO 39+240	794	96	0	0	0	0	0	0	1460	288
	39+240 TO 39+600	470	154	0	0	0	0	0	0	1236	298
	39+600 TO 39+825	105	62	19	0	0	0	0	0	854	163
	39+825 TO 440+200	562	84	8	0	0	0	0	0	1838	189
IL-394/ I-94	440+200 TO 440+525	429	27	31	0	0	0	0	0	1376	172
	440+525 TO 440+900	1084	82	70	0	0	0	0	0	2010	271
	440+900 TO 441+167.161	965	128	0	0	0	0	0	0	1172	256
RAMP F	110+400 TO 110+750	0	0	0	0	0	0	0	0	0	0
	TOTAL	11363	1712	128	3656	476	60	711	21	16521	3557

LOCATION				METAL POST - TYPE A	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	REMOVE OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	REMOVE GROUND - MOUNTED SIGN SUPPORT	REMOVE CONCRETE FOUNDATION - OVERHEAD	TUBULAR TRAFFIC SIGN POST
				EACH	EACH	EACH	EACH	EACH	EACH
I-94	18+400	TO	19+880	0.0	0	0	2	0	5
IL 394/I-94	39+463 (IL 394)	TO	19+880 (I-94)	12.3	2	1	4	4	0
IL 394	37+800	TO	39+463	0.0	0	0	0	0	0
			TOTAL	12.3	2	1	6	4	5

LOCATION				SIGN PANEL - TYPE 1	SIGN PANEL - TYPE 2	SIGN PANEL - TYPE 3	REMOVE SIGN PANEL - TYPE 1	REMOVE SIGN PANEL - TYPE 2	REMOVE SIGN PANEL - TYPE 3
				SQ M	SQ M	SQ M	SQ M	SQ M	SQ M
I-94	18+400	TO	19+880	20.77	3.60	183.38	0.00	1.44	25.78
IL 394/I-94	39+463 (IL 394)	TO	19+880 (I-94)	1.38	11.16	93.78	0.75	5.40	17.39
IL 394	37+800	TO	39+463	2.16	4.68	10.26	0.00	0.00	4.65
			TOTAL	24.31	19.44	287.42	0.75	6.84	47.82

LOCATION				WOOD SIGN SUPPORT	OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (1.22M X 1.37M)	OVERHEAD SIGN STRUCTURE - SPAN, TYPE II-A (1.37M X 1.60M	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (0.90M X 2.14M)	OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	OVERHEAD SIGN STRUCTURE WALKWAY	DRILLED SHAFT CONCRETE FOUNDATIONS
				METER	METER	METER	METER	METER	METER	CU M
I-94	18+400	TO	19+880	15.0	25.2	50.0	12.1	0.0	61.0	64.4
IL 394/I-94	39+463 (IL 394)	TO	19+880 (I-94)	74.7	0.0	28.0	11.8	7.0	24.2	27.6
IL 394	37+800	TO	39+463	39.0	0.0	0.0	0.0	0.0	0.0	0.0
			TOTAL	128.7	25.2	78.0	23.9	7.0	85.2	92.0

LOCATION		POLYUREA PAVEMENT MARKING, TYPE 1 - LINE 200MM	POLYUREA PAVEMENT MARKING, TYPE 1 - LINE 300MM
		METER	METER
I-94	BEGIN TO 18+725	697	181
	18+725 TO 19+000	709	50
	19+000 TO 19+350	420	40
	19+350 TO 19+700	575	42
	19+700 TO 20+000	1201	228
IL 394	BEGIN TO 38+875	0	52
	38+875 TO 39+240	0	88
	39+240 TO 39+600	515	139
	39+600 TO 39+825	607	252
	39+825 TO 440+200	382	209
IL-394/ I-94	440+200 TO 440+525	0	119
	440+525 TO 440+900	899	181
	440+900 TO 441+167.161	846	401
RAMP F	110+400 TO 110+750	0	0
	TOTAL	6851	1982

NOTE:
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℄ I-94 WB STA. 30+785.473 TO STA. 31+020.000, AND
MDTPE94 STA. 25+178.451 TO STA. 25+516.450

REVISIONS	
NAME	DATE
⚠ REVISED, MAM	11/30/05

SC-7

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

SCHEDULE OF QUANTITIES

HORIZ SCALE:
VERT SCALE:
DATE: JULY 18, 2005
DRAWN BY: BJM
CHECKED BY: JES

HNTB

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• (0203.1 & 0312-708W) R-3 CONTRACT NO. 62108

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	870	49
STA.		TO STA.		
FED ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EARTHWORK SCHEDULE

LOCATION				EARTH EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (TOPSOIL EXCAVATION)	EARTH EXCAVATION (SPECIAL)	TOTAL SUITABLE EXCAVATION	EXCAVATION TO BE USED IN EMBANKMENT (ADJ. FOR SHRINKAGE) 15%	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
				(CU M)	(CU M)	(CU M)	(CU M)	(CU M)	(CU M)	(CU M)
I-94	18+511.184	TO	18+605.000	675	68	0	675	574	8	566
	18+605.000	TO	18+700.000	1251	84	0	1251	1063	22	1041
	18+700.000	TO	18+800.000	251	43	0	251	213	504	-291
	18+800.000	TO	18+900.000	228	45	0	228	194	657	-463
	18+900.000	TO	19+000.000	192	21	0	192	163	1478	-1315
	19+000.000	TO	19+100.000	390	47	0	390	332	59	273
	19+100.000	TO	19+200.000	422	61	0	422	359	87	272
	19+200.000	TO	19+300.000	1048	52	0	1048	891	98	793
	19+300.000	TO	19+400.000	2012	62	0	2012	1710	15	1695
	19+400.000	TO	19+500.000	863	42	0	863	734	18	716
	19+500.000	TO	19+600.000	244	51	0	244	207	422	-215
	19+600.000	TO	19+700.000	138	66	0	138	117	941	-824
	19+700.000	TO	19+800.000	792	63	0	792	673	76	597
	19+800.000	TO	19+900.000	1851	88	0	1851	1573	46	1527
	19+900.000	TO	20+000.000	367	74	0	367	312	1621	-1309
			SUBTOTAL	10724	867	0	10724	9115	6052	3063
I-94 EB	20+266.498	TO	20+300.000	23	24	0	23	20	427	-407
	20+300.000	TO	20+400.000	115	171	0	115	98	4932	-4834
	20+400.000	TO	20+510.152	1215	130	0	1215	1033	4469	-3436
	20+510.152	TO	20+603.186	4100	112	0	4100	3485	13	3472
	20+603.186	TO	20+700.000	2582	258	0	2582	2195	2128	67
			SUBTOTAL	8035	695	0	8035	6830	11969	-5139
IL-394	38+519.500	TO	38+700.000	2277	58	0	2277	1935	112	1823
	38+700.000	TO	38+800.000	1482	47	0	1482	1260	97	1163
	38+800.000	TO	38+900.000	1445	51	0	1445	1228	77	1151
	38+900.000	TO	39+000.000	1123	57	0	1123	955	132	823
	39+000.000	TO	39+100.000	638	46	0	638	542	235	307
	39+100.000	TO	39+200.000	428	41	0	428	364	262	102
	39+200.000	TO	39+300.000	1314	0	0	1314	1117	50	1067
	39+300.000	TO	39+400.000	1418	33	0	1418	1205	70	1135
	39+400.000	TO	39+500.000	443	78	0	443	377	160	217
	39+500.000	TO	39+603.005	481	33	0	481	409	471	-62
	39+603.005	TO	39+695.501	413	18	0	413	351	1940	-1589
	39+695.501	TO	39+903.694	295	13	0	295	251	531	-280
	39+800.000	TO	39+903.694	298	19	0	298	253	5475	-5222
	39+903.694	TO	40+008.574	317	142	0	317	269	9903	-9634
			SUBTOTAL	12372	636	0	12372	10516	19515	-8999
IL-394 SB	440+008.573	TO	440+096.843	463	8	0	463	394	7249	-6855
	440+096.843	TO	440+208.893	6425	313	0	6425	5461	7227	-1766
	440+208.893	TO	440+300.000	10697	433	0	10697	9092	777	8315
	440+300.000	TO	440+400.000	12915	821	0	12915	10978	1487	9491
	440+400.000	TO	440+500.000	3375	658	0	3375	2869	7176	-4307
	440+500.000	TO	440+600.000	2007	329	0	2007	1706	6081	-4375
	440+600.000	TO	440+726.231	1214	0	0	1214	1032	360	672
	440+726.231	TO	441+025.000	3460	559	0	3460	2941	16590	-13649
	441+025.000	TO	441+100.000	225	24	0	225	191	7081	-6890
	441+100.000	TO	441+166.831	246	0	0	246	209	3670	-3461
			SUBTOTAL	41027	3145	0	41027	34873	57698	-22825
159TH RAMP	9+975.000	TO	10+000.000	6	0	0	6	5	1	4
	10+000.000	TO	10+100.000	308	38	0	308	262	92	170
	10+100.000	TO	10+130.691	278	44	0	278	236	114	122
			SUBTOTAL	592	82	0	592	503	207	296
MAINTENANCE ACCESS ROAD	7+000.000	TO	7+100.000	16	50	0	16	14	186	-172
	7+100.000	TO	7+200.000	80	45	0	80	68	9	59
	7+200.000	TO	7+250.000	111	13	0	111	94	50	44
			SUBTOTAL	207	108	0	207	176	245	-69
IL-394 NB	40+425.000	TO	40+506.107	141	131	0	141	120	2420	-2300
			SUBTOTAL	141	131	0	141	120	2420	-2300
SEDIMENT BASIN (MEASURED FROM ℄ IL-394 SB	440+750.000	TO	440+810.000	0	0	0	0	0	218	-218
			SUBTOTAL	0	0	0	0	0	218	-218
SUB TOTAL				73,098	5,664	0	73,098	62,133	98,324	-36,191

NOTE:
1. RESTRICTED SOIL IS NOT TO BE CONSIDERED UNSUITABLE MATERIAL.

⚠1

I.D.O.T.	CUBIC METERS
EARTH EXCAVATION	73,098
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	5,664
EARTH EXCAVATION (SPECIAL)	0
FURNISHED EXCAVATION	36,191

NOTE:
SEE NEXT SHEET FOR ADDITIONAL EARTHWORK SCHEDULE ALONG ℄ I-94 EB AND ℄ I-94 WB.

ISTHA (RAMP F) EARTHWORK QUANTIFIED SEPARATELY.

REVISIONS	
NAME	DATE
⚠1 REVISED, BAJ	11/30/05

SC-10

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

SCHEDULE OF QUANTITIES

HORIZ SCALE:
VERT SCALE:
DATE: JULY 18, 2005
DRAWN BY: BAJ/JYMC
CHECKED BY: JES

HNTB

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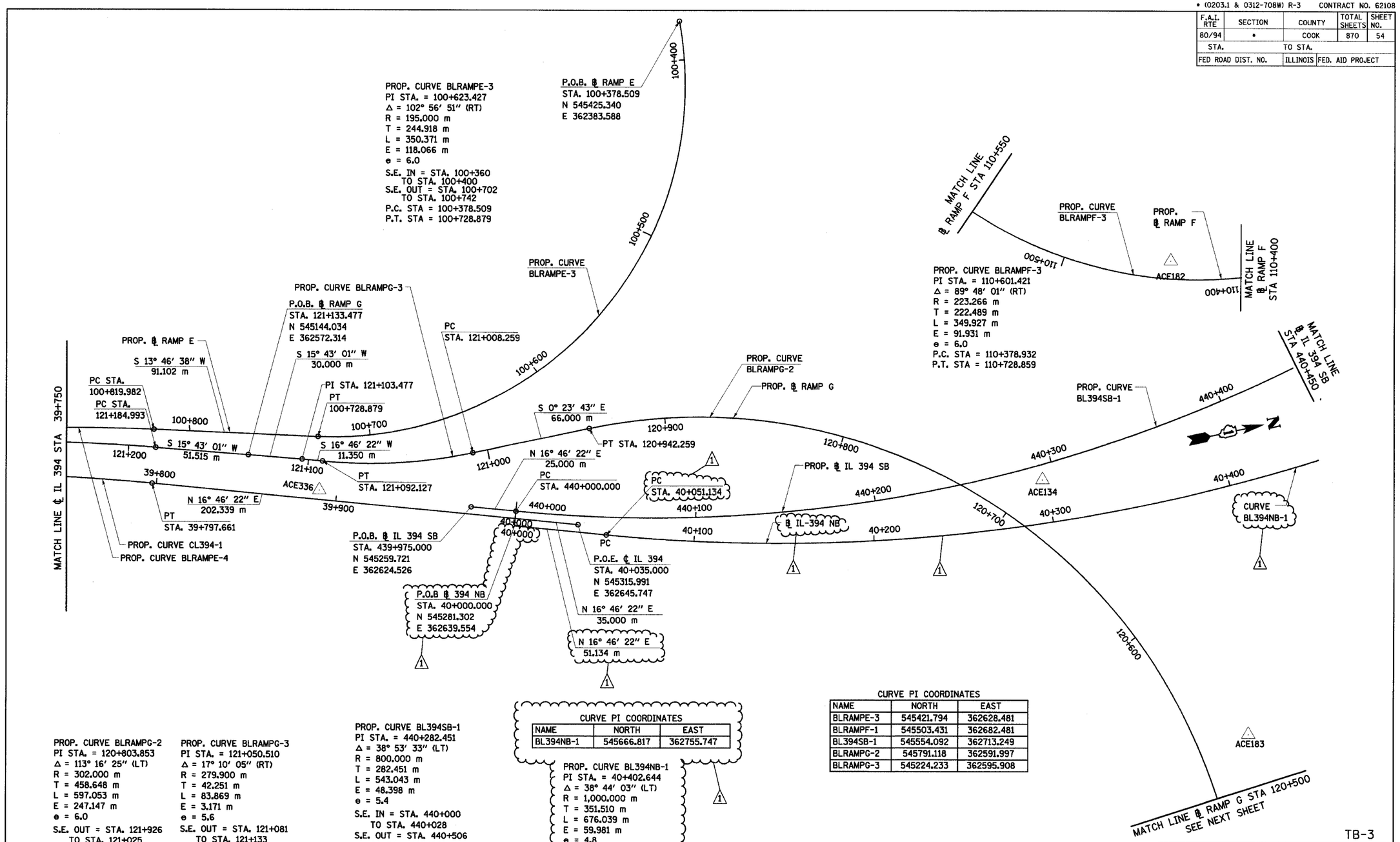
MAMiller 30-NOV-2005 16:10

• (0203.1 & 0312-708W) R-3 CONTRACT NO. 62108

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	870	54
STA.		TO STA.		
FED ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



PROP. CURVE BLRAMPG-2
PI STA. = 120+803.853
Δ = 113° 16′ 25″ (LT)
R = 302.000 m
T = 458.648 m
L = 597.053 m
E = 247.147 m
e = 6.0
S.E. OUT = STA. 121+926 TO STA. 121+025
P.C. STA. = 120+345.205
P.T. STA. = 120+942.259

PROP. CURVE BLRAMPG-3
PI STA. = 121+050.510
Δ = 17° 10′ 05″ (RT)
R = 279.900 m
T = 42.251 m
L = 83.869 m
E = 3.171 m
e = 5.6
S.E. OUT = STA. 121+081 TO STA. 121+133
P.C. STA. = 121+008.259
P.T. STA. = 121+092.127

PROP. CURVE BL394SB-1
PI STA. = 440+282.451
Δ = 38° 53′ 33″ (LT)
R = 800.000 m
T = 282.451 m
L = 543.043 m
E = 48.398 m
e = 5.4
S.E. IN = STA. 440+000 TO STA. 440+028
S.E. OUT = STA. 440+506 TO STA. 440+601
P.C. STA. = 440+000.000
P.T. STA. = 440+543.043

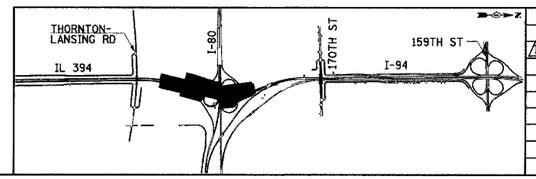
CURVE PI COORDINATES

NAME	NORTH	EAST
BL394NB-1	545666.817	362755.747

PROP. CURVE BL394NB-1
PI STA. = 40+402.644
Δ = 38° 44′ 03″ (LT)
R = 1,000.000 m
T = 351.510 m
L = 676.039 m
E = 59.981 m
e = 4.8
S.E. IN = STA. 40+010 TO STA. 40+081
S.E. OUT = STA. 40+709 TO STA. 40+821
P.C. STA. = 40+051.134
P.T. STA. = 40+727.173

CURVE PI COORDINATES

NAME	NORTH	EAST
BLRAMPE-3	545421.794	362628.481
BLRAMPF-1	545503.431	362682.481
BL394SB-1	545554.092	362713.249
BLRAMPG-2	545791.118	362591.997
BLRAMPG-3	545224.233	362595.908



REVISIONS	
NAME	DATE
⚠1 REVISED, BAJ	11/30/05

TB-3

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

HORIZONTAL ALIGNMENT

HORIZ SCALE: 1:1000
VERT SCALE: NONE
DATE: JULY 18, 2005
DRAWN BY: BAJ
CHECKED BY: JES

HNTB

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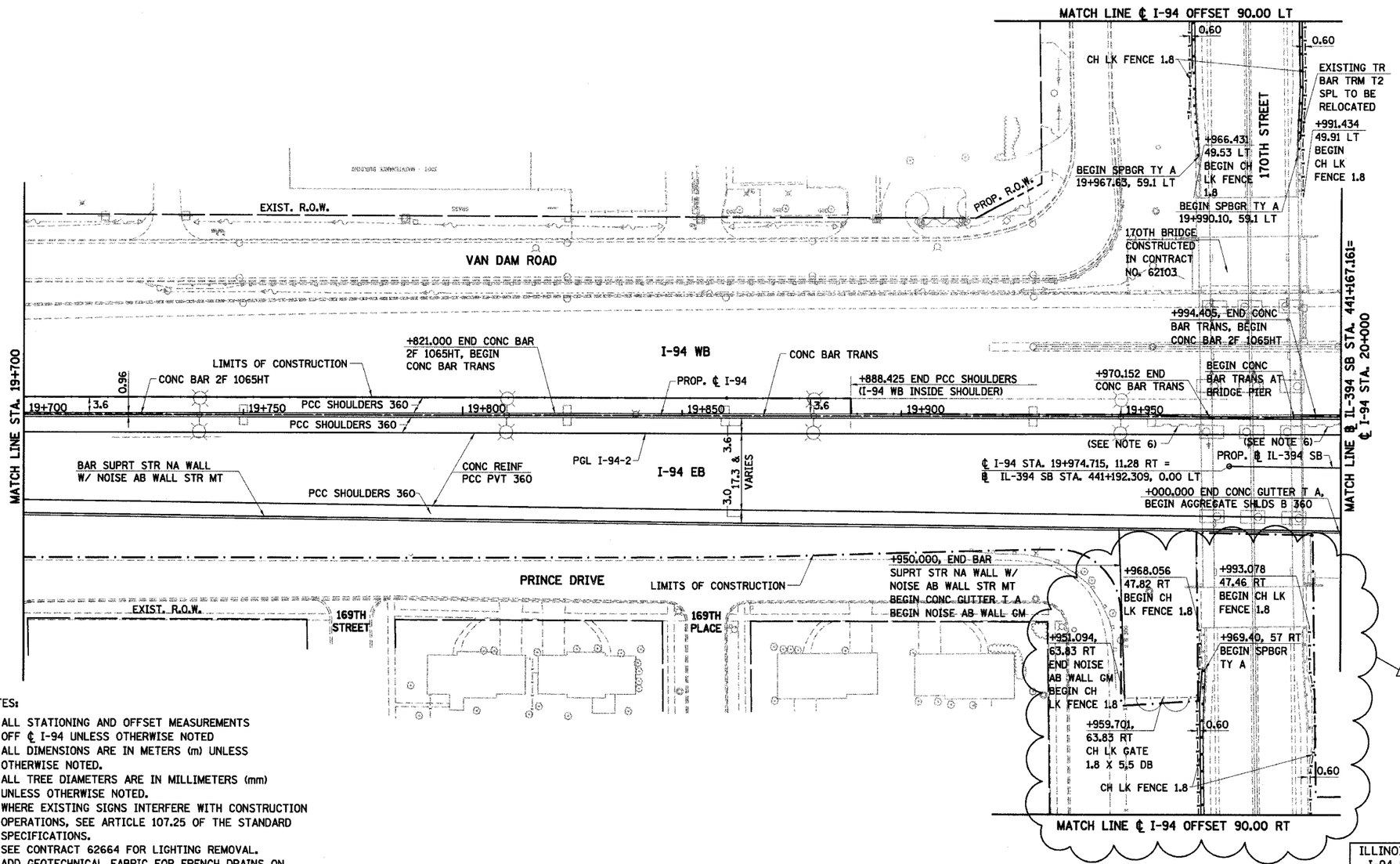
MAMiller 30-NOV-2005 16:10

• (0203.1 & 0312-708W) R-3 CONTRACT NO. 62108

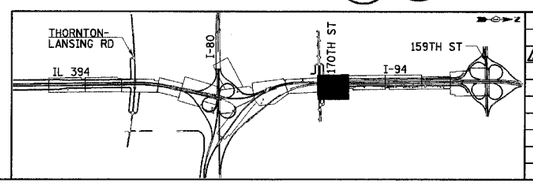
F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	870	133
STA.	19+700	TO STA.	20+000	
FED ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



NOTES:

1. ALL STATIONING AND OFFSET MEASUREMENTS OFF ℄ I-94 UNLESS OTHERWISE NOTED
2. ALL DIMENSIONS ARE IN METERS (m) UNLESS OTHERWISE NOTED.
3. ALL TREE DIAMETERS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.
4. WHERE EXISTING SIGNS INTERFERE WITH CONSTRUCTION OPERATIONS, SEE ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
5. SEE CONTRACT 62664 FOR LIGHTING REMOVAL.
6. ADD GEOTECHNICAL FABRIC FOR FRENCH DRAINS ON FRONT FACE OF EXISTING MSE RETAINING WALL. SEE SHEETS 707A & 707B FOR DETALS.
7. PROPOSED SPBGR TY A TO CONNECT TO EXISTING TRAFFIC BARRIER TERMINAL TYPE 6 ON 170TH STREET BRIDGE. WORK AND MATERIALS INCLUDED IN COST OF SPBGR TY A.

PROPOSED



REVISIONS	
NAME	DATE
⚠ REVISED, MAM	11/30/05

PF-7

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND
PROPOSED PLAN
I-94
STA. 19+700 TO STA. 20+000

HORIZ SCALE: 1:500
VERT SCALE:
DATE: JULY 18, 2005
DRAWN BY: BAJ
CHECKED BY: JES

HNTB

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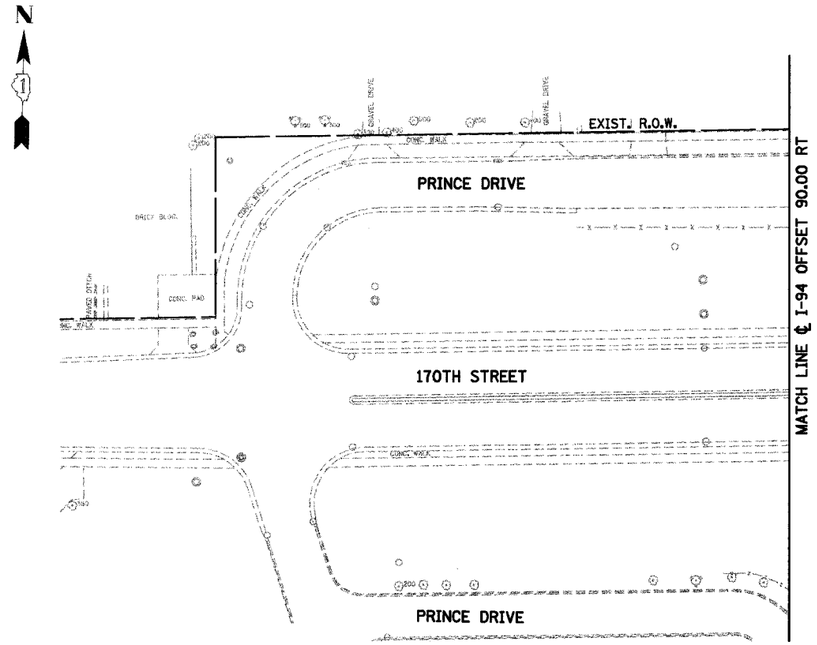
MAMiller 29-NOV-2005 15:45

• (0203.1 & 0312-108W) R-3 CONTRACT NO. 62108

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	870	133A
STA. 19+700		TO STA. 20+000		
FED ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



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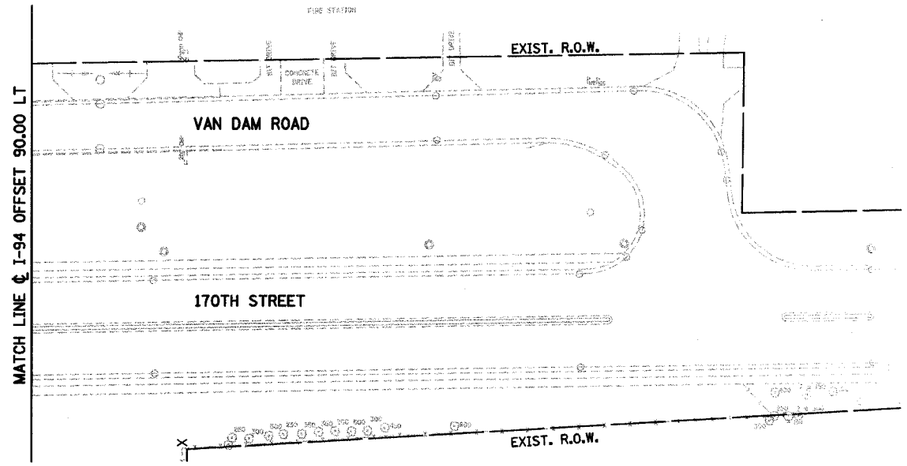
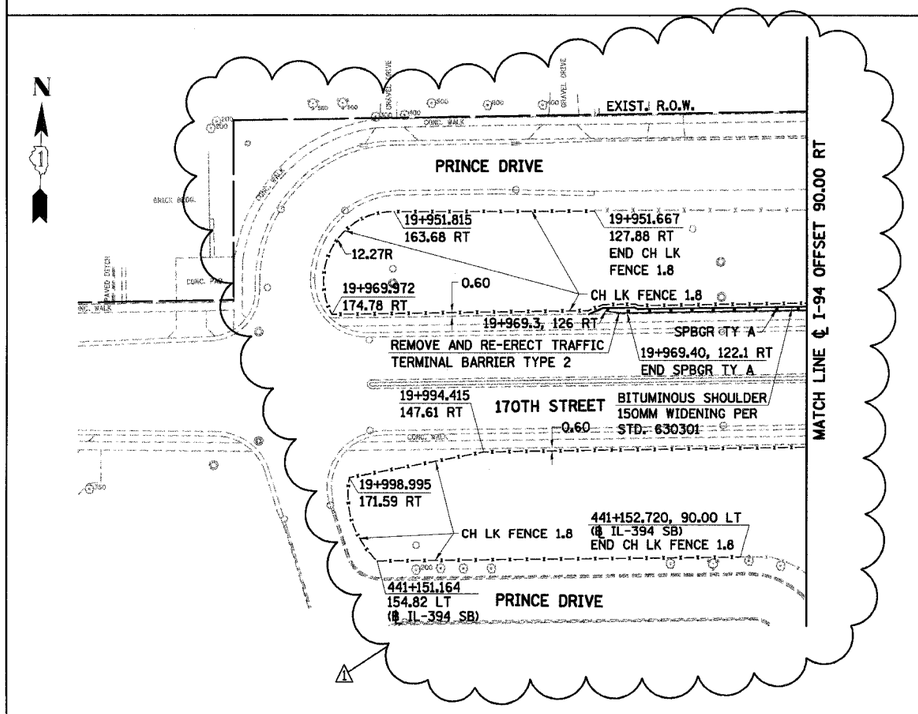
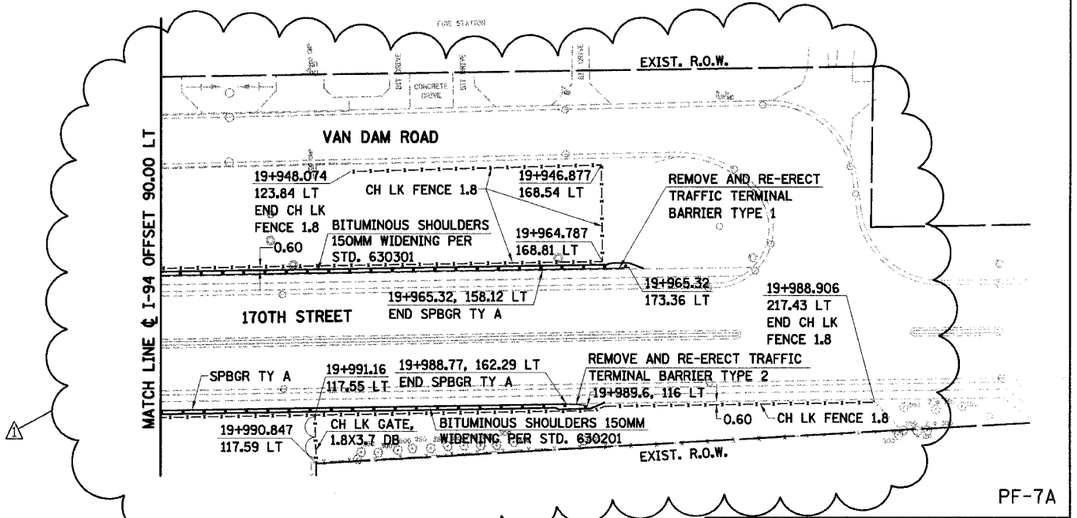


NOTES:

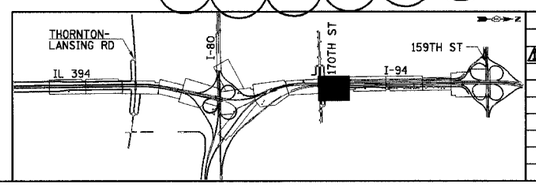
1. ALL STATIONING AND OFFSET MEASUREMENTS OFF ℄ I-94 UNLESS OTHERWISE NOTED
2. ALL DIMENSIONS ARE IN METERS (m) UNLESS OTHERWISE NOTED.
3. ALL TREE DIAMETERS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.
4. WHERE EXISTING SIGNS INTERFERE WITH CONSTRUCTION OPERATIONS, SEE ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
5. SEE CONTRACT 62664 FOR LIGHTING REMOVAL.



PROPOSED



PF-7A



REVISIONS	
NAME	DATE
⚠ REVISED, MAM	11/30/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

PROPOSED PLAN
I-94/IL-394/170TH STREET
STA. 19+925 TO STA. 20+000 (℄ I-94)
STA. 441+140 TO 441+167.161 (℄ IL-394 SB)

HORIZ SCALE: 1:500
VERT SCALE:
DATE: JULY 18, 2005
DRAWN BY: BAJ
CHECKED BY: JES

HNTB

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• (0203.1 & 0312-708W) R-3 CONTRACT NO. 62108

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	870	143
STA.		TO STA.		
FED ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

DETAIL A NOTE

REMOVE EAST STEEL SHEET PILING, WALERS, AND EAST END OF TIE RODS TO 915mm BELOW FINAL GRADE LINE. BEFORE RELEASING THE TIE RODS, THE PROPOSED EMBANKMENT ON THE EAST SIDE OF THE SHEETING SHALL BE PLACED TO WITHIN 915mm (OR LESS) OF THE FINAL GRADE LINE AND THE EXISTING EMBANKMENT ON THE WEST SIDE OF SHEETING SHALL BE REMOVED TO THE FINAL GRADE AS A MINIMUM AND 915mm BELOW AS A MAXIMUM.

THIS WORK IS INCLUDED IN THE PAY ITEM REMOVE STEEL SHEET PILING.

LEGEND

- PAVEMENT REMOVAL /ROADWAY EXCAVATION COMMON
- PAVED SHOULDER REMOVAL /ROADWAY EXCAVATION COMMON
- APPROACH SLAB REMOVAL
- PAVEMENT BREAKING
- UMINOUS SURFACE REMOVAL, 45MM
- TREE REMOVAL
- TREE REMOVAL HECTARES
- SELECTIVE CLEARING
- BORXXXXX XXX — SOIL BORING / PAVEMENT CORE NUMBER ASPHALT PAVEMENT THICKNESS (MM) UNLESS OTHERWISE NOTED
- BORING / CORE

MATCH LINE STA. 110+600 (℄ RAMP F)

WETLAND SITE 8

WETLAND

+228.158 122.08 LT

+232.520 118.47 LT

MATCH REMOVAL BY CONTRACT 62105

110+500

110+550

EXIST. R.O.W.

REMOVAL BY CONTRACT 62105

RAMP J

PAVEMENT REM

PAVED SHDR REMOVAL

REMOVAL OF EXISTING STRUCTURE NO. 016-0971

APPROACH SLAB REM

PAVEMENT REM

GUTTER REMOVAL

GUARDRAIL REMOV

120+750

I-80 WB TO IL-394 SB

I-80 WB TO I-94 WB

MATCH LINE STA. 440+200

440+200

℄ IL-394 SB +231.848 BEGIN PAVEMENT REM

440+250

440+300

440+350

440+400

440+450

440+500

PROP. ℄ RAMP G

RAMP G

120+300

RAMP J

IL-394 NB

℄ IL-394 NB

RAMP H

120

1.3

2.6

1.2

PROP. ℄ IL-394 SB

PAVEMENT REM

GUTTER REMOVAL

PAVED SHDR REMOVAL +469.211

ISTHA PAY ITEMS
IDOT PAY ITEMS
51.0m LT (℄ RAMP F)

IL-394 SB

FOR STEEL SHEET PILING REMOVAL THIS AREA, SEE DETAIL A ABOVE RIGHT

IDOT PAY ITEMS

110+400

PROP. ℄ RAMP F

ROW FENCE REMOVAL

110+350

MATCH LINE STA. 440+525

ROADWAY EXCAVATION COMMON

STA. 110+313.000 (℄ RAMP F)

ISTHA PAY ITEMS

IDOT PAY ITEMS

DETAIL A

SEE DETAIL A NOTE ABOVE LEFT ON THIS SHEET

IL-394 SB

℄ IL-394 SB

IL-394 NB

40+450

40+500

EXISTING BURIED WEST STEEL SHEET PILING (WITH 2-C10x20 WALER) CONSTRUCTED IN CONTRACT NO. 62353 TO REMAIN

EXISTING BURIED 25mm Ø STEEL TIE ROD (TYP., 6 TOTAL) TO BE PARTIALLY REMOVED AT EAST END DURING STAGE III

ELEV. 188.2

ELEV. 189.7

ELEV. 190.7

STRUCTURE SN 016-2802

FOR GRADING THIS AREA, SEE GRADING PLANS

APPROX. 15.4 M LONG WALER (2-C10X20) TO BE REMOVED

103 SQ M EXISTING EAST STEEL SHEET PILING CONSTRUCTED IN CONTRACT NO. 62353 TO BE PARTIALLY REMOVED DURING STAGE III

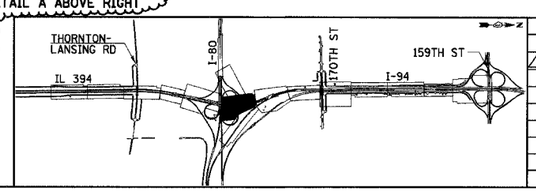
RAMP J

I-94 EB

NOTES:

1. ALL STATIONING AND OFFSET MEASUREMENTS OFF ℄ IL-394 SB UNLESS OTHERWISE NOTED
2. ALL DIMENSIONS ARE IN METERS (m) UNLESS OTHERWISE NOTED.
3. ALL TREE DIAMETERS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.
4. WHERE EXISTING SIGNS INTERFERE WITH CONSTRUCTION OPERATIONS, SEE ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
5. SEE CONTRACT 62664 FOR LIGHTING REMOVAL.

EXISTING



REVISIONS	
NAME	DATE
⚠1 REVISED, BAJ	11/30/05

PF-17

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

EXISTING PLAN
IL-394 SB
STA. 440+200 TO STA. 440+525

HORIZ SCALE: 1:500
VERT SCALE:
DATE: JULY 18, 2005
DRAWN BY: BAJ
CHECKED BY: JES

HNTB

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MAMiller 30-NOV-2005 16:11

• (0203.1 & 0312-708W) R-3 CONTRACT NO. 62108

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	870	379
STA. 440+400		TO STA. 440+750		
FED ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

20m 0 10m 20m 30m

HORIZ. SCALE: 1:500

LIMIT OF CONSTRUCTION

PROPOSED ℄ IL-394 SB

PROPOSED ℄ RAMP F

440+551.123
16.251 LT
(℄ IL-394 SB)

MATCH LINE RAMP F

MATCH LINE STA 440+400

MATCH LINE STA 440+750

ISTHA PAY ITEMS
MATCHLINE
IDOT PAY ITEMS

RAMP F

IL-394 SB

THORN CREEK

I-94 EB

PROPOSED ℄ I-94 EB

IL-394 NB

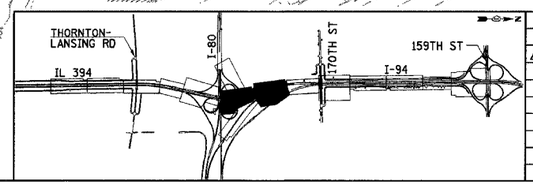
RAMP J

LIMIT OF CONSTRUCTION

LIMIT OF CONSTRUCTION

LEGEND

- 190 EXISTING CONTOUR
- EXISTING DITCH LINE
- 190 PROPOSED CONTOUR
- PROPOSED DITCH FLOW
- PROPOSED DITCH LINE
- PROPOSED SWALE
- PROPOSED SUMMIT
- PROPOSED MANHOLE
- PROPOSED INLET
- PROPOSED CATCH BASIN
- PROPOSED END SECTION



REVISIONS	
NAME	DATE
⚠ REVISED, BAJ	11/30/05

IG - 9

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

GRADING PLAN
IL-394
STA. 440+400 TO STA. 440+750

HORIZ SCALE: 1:500
VERT SCALE:
DATE: JULY 18, 2005

DRAWN BY: BAJ
CHECKED BY: JES

HNTB

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MAMiller 30-NOV-2005 16:12

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

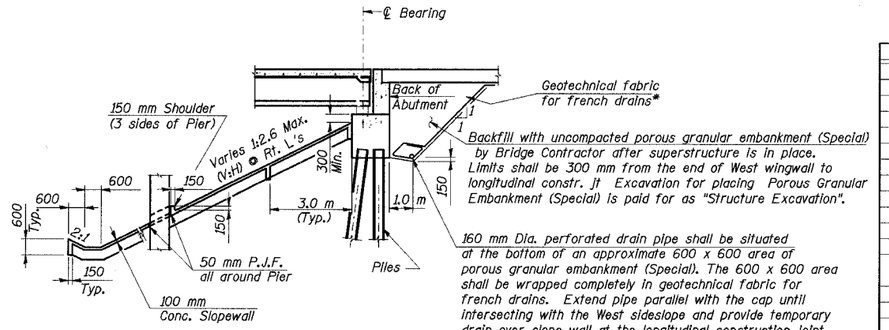
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80/94		COOK	870	475
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 2
37 SHEETS

SECTION (0203.1 & 0312-708W) R-3 CONTRACT # 62108

GENERAL NOTES

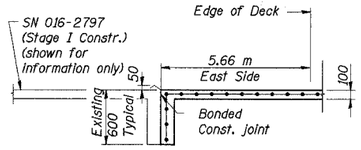
1. All dimensions are in millimeters (mm) except as noted.
2. Reinforcement bars shall conform to the requirements of AASHTO M 31M or M 322M Grade 400.
3. Slope wall shall be reinforced with welded wire fabric, 152 x 152 - MW25.8 x MW25.8, with a mass of 2.91 kg/m^2.
4. The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
5. The contractor shall drive one steel test pile in a permanent location at East end of each abutment & pier as shown on the plans or as directed by the Engineer before ordering the remainder of piles.
6. Bridge Seat Sealer shall be applied to the seat area of the north and south abutments.
7. All construction joints shall be bonded.
8. All new structural steel shall be shop painted with an inorganic zinc rich primer per AASHTO M 300, Type1
9. Stage I construction refer to N.B. IL 394 reconstruction contract. Stage II construction refer to S.B. IL 394 reconstruction contract.
10. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.



SECTION THRU ABUTMENT

(Horizontal Dimensions shown at Rt. L's)

*Included in the cost of "Porous Granular Embankment (Special)".



SECTION A-A

(See Sheet No. 1 for Location)

STATION 39+752.246
BUILT 200_ BY
STATE OF ILLINOIS
F.A.P. RT. 332
SEC. (0203.1 & 0312-708W)
LOADING MS-18 & ALT.
STR. NO. 016-2798

** NAME PLATE

See Std. 515001

** Name Plate Detail is provided for information only.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu m	-	165.0	165.0
Removal of Existing Structures No. 2	Each	1	-	1
Structure Excavation	Cu m	-	948	948
Neoprene Expansion Joint 65mm	Meter	14	-	14
Floor Drains	Each	4	-	4
Elastomeric Bearing Assembly, Type I	Each	24	-	24
Elastomeric Bearing Assembly, Type II	Each	8	-	8
Bridge Joint System (Expansion), 25mm	Meter	15.4	-	15.4
Concrete Structures	Cu m	-	397.3	397.3
Concrete Superstructure	Cu m	267.9	-	267.9
Bridge Deck Grooving	Sq m	960	-	960
Protective Coat	Sq m	1085	-	1085
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 1219mm	Meter	587	-	587
Furnishing and Erecting Structural Steel	KG	600	-	600
Reinforcement Bars, Epoxy Coated	KG	37280	30480	67760
Slopewall 100 mm	Sq m	-	1206	1206
Furnishing Steel Piles HP310X79	Meter	-	2542	2542
Driving Steel Piles	Meter	-	2542	2542
Test Pile Steel HP310X79	Each	-	4	4
Temporary Sheet Piling	Sq m	-	451	451
Remove Steel Sheet Piling ⚠	Sq m	-	185	185
Drainage Scuppers, DS-33	Each	1	-	1
Bar Splicers	Each	89	-	89
Bridge Seat Sealer	Sq m	-	33	33
Controlled Low-Strength Material	Cu m	-	14.6	14.6
Protective Shield	Sq m	241	-	241

INDEX OF SHEETS

DESIGNED	M.R./ H.T.
CHECKED	H.T.
DRAWN	J.B./ J.S.
CHECKED	H.T./ M.R.

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94/IL 394 SOUTH BOUND

GENERAL NOTES, QUANTITIES & DETAILS

SB IL. ROUTE 394 OVER CANADIAN NATIONAL RR
F.A.P. 332 SECTION (0203.1 & 0312-708W) R-3
COOK COUNTY
STA. 39+752.246 S.N. 016-2798 (INSIDE LANES)

DATE: July 18, 2005
SCALE: NONE

Soodan

Soodan & Associates, Inc.
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602

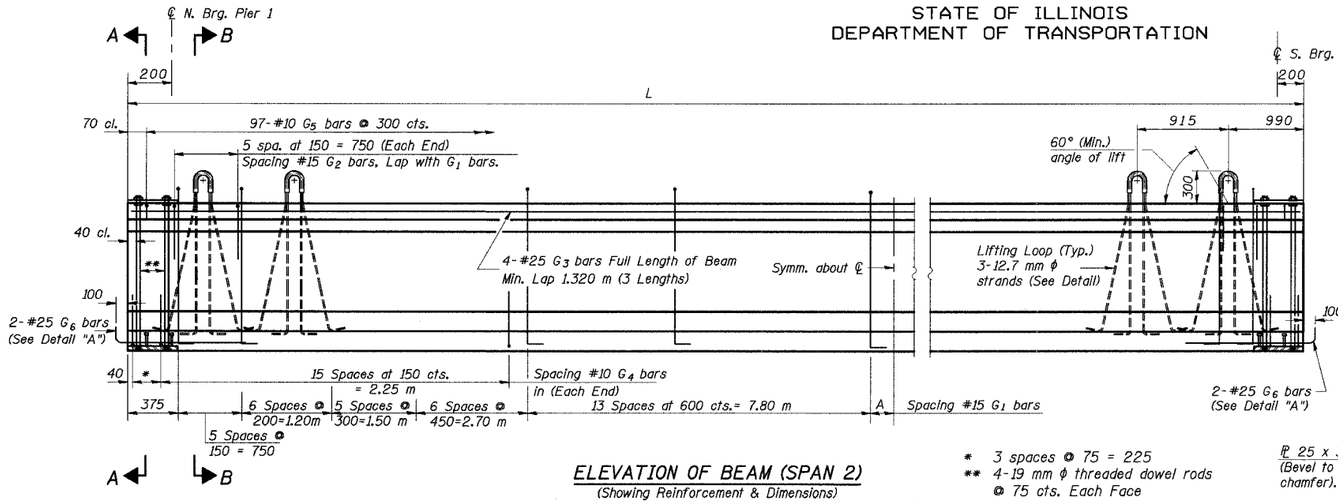
⚠ Revised 11/30/2005, MR

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80/94		COOK	870	493
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		

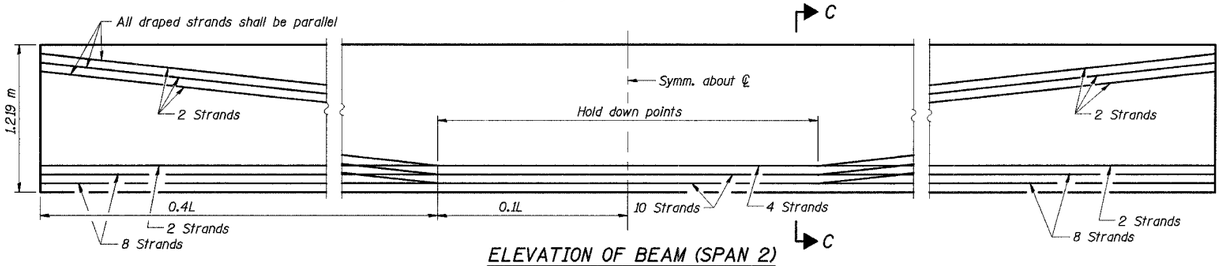
SECTION (0203.1 & 0312-708W) R-3 CONTRACT # 62108

SHEET NO. 20
37 SHEETS

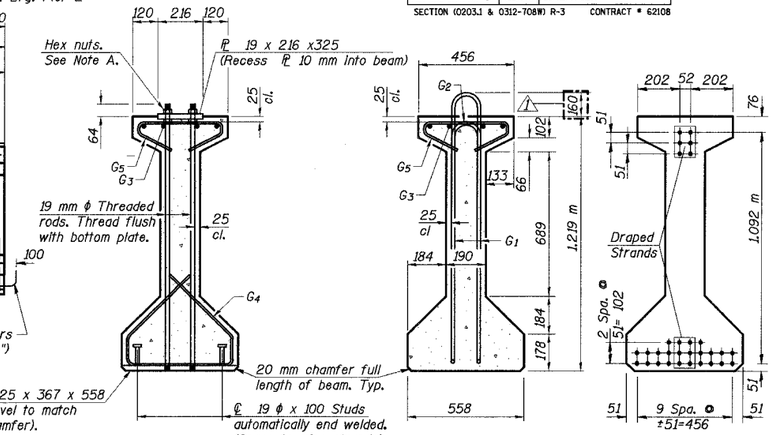


ELEVATION OF BEAM (SPAN 2)
(Showing Reinforcement & Dimensions)

* 3 spaces @ 75 = 225
** 4-19 mm ϕ threaded dowel rods @ 75 cts. Each Face



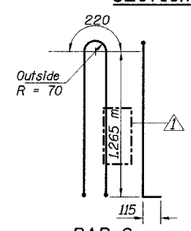
ELEVATION OF BEAM (SPAN 2)
(Showing Prestressing Steel)



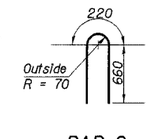
SECTION A-A

SECTION B-B

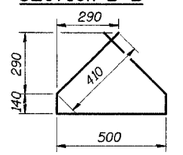
SECTION C-C



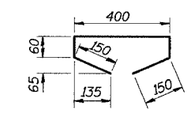
BAR G_1



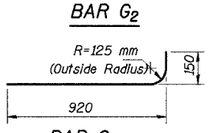
BAR G_2



BAR G_4



BAR G_5

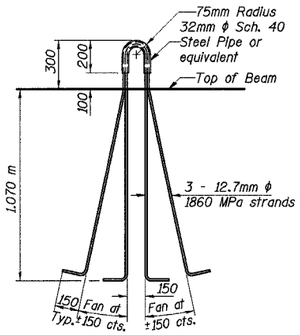


BAR G_6

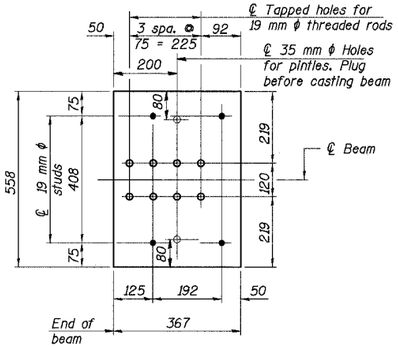
* BAR LIST

Bar	No.	Size	Length (m)	Shape
G_1	72	#15	2.98	
G_2	12	#15	1.54	
G_3	12	#25	10.68	
G_4	38	#10	1.60	
G_5	97	#10	0.82	
G_6	4	#25	1.07	

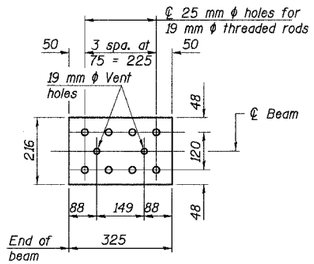
* For one beam only.



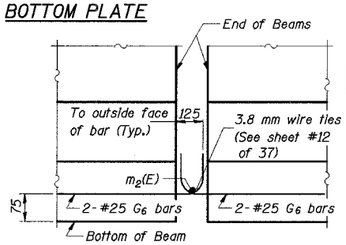
LIFTING LOOP DETAIL



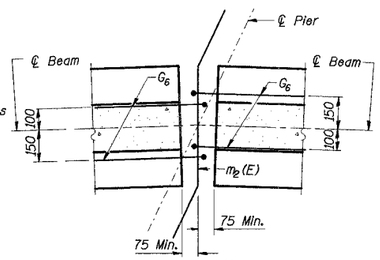
BOTTOM PLATE



TOP PLATE



ELEVATION



DETAIL "A"

PLAN

Notes:

All inserts and threaded dowel rods for inserts, reinforcing and Prestressing Steel, and other items which are cast into the Precast Concrete I-Beams shall be included in the contract unit price per meter of "Furnishing and Erecting Precast Prestressed Concrete I-Beams, 1219 mm."

Inserts for 20 mm threaded dowel rods are to be two strut, coil type for interior I-Beams and single coil, flared loop type for exterior I-Beams.

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand (Fu=1860 MPa).

The nominal diameter shall be 12.7 mm and the nominal cross-sectional area shall be 98.71 sq. mm .

Non-prestressing steel shall conform to AASHTO designation M-31M or M-322M Grade 400.

Lifting loops shall be 3-12.7 mm ϕ strands (Fu=1860 MPa), as shown.

Required release strength, f'ci, shall be 35 MPa.

A minimum 64mm ϕ lifting pin shall be used to engage the lifting loops during handling.

Cut G6 bars when necessary to maintain 40 mm clearance. The bottom plates and studs shall be galvanized according to AASHTO M111 and ASTM A385.

Threaded rods shall be ASTM F 1554 Grade 370.

The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A 780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manufacturer's specifications prior to another coat of zinc.

A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to all portions of the beams, except the top surface of the top flange and the bottom surface of the bottom flange, starting at each beam end and extending out a distance of 1.219 m. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.

Reinforcement bars designated (E) shall be epoxy coated.

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

See sheet No. 21 of 37 for Moment and Reaction Table.

BEAM DIMENSIONS

Beam	L (m)	0.4L(m)	0.1L (m)	A
9	29.085	11.634	2.909	217
10	29.049	11.620	2.905	200
11	29.012	11.605	2.901	181
12	28.975	11.590	2.898	163
13	28.939	11.576	2.894	145
14	28.903	11.561	2.890	127
15	28.867	11.547	2.887	108
16	28.830	11.532	2.883	90

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 1219 mm	m	231.7

DESIGNED	M.R./ H.T.
CHECKED	H.T.
DRAWN	J.B./ J.S.
CHECKED	H.T./ M.R.

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94/IL 394 SOUTH BOUND

BEAM DETAILS 2 OF 3

SB IL. ROUTE 394 OVER CANADIAN NATIONAL RR
F.A.P. 332 SECTION (0203.1 & 0312-708W) R-3
COOK COUNTY
STA. 39+752.246 S.N. 016-2798 (INSIDE LANES)

DATE: July 18, 2005
SCALE: NONE

Soodan

Soodan & Associates, Inc.
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602

⚠ Revised 11/30/2005, RA

Benchmark: TBM #316 Set cut box on foundation of overhead sign truss (C3) NE corner of exit ramp to I-80 westbound: approximately mile marker 74.30 Elev. = 183.274

Existing Structure: S.N. 016-0164, three-span continuous 39.49 m Bk. to Bk. abutments, variable width from 21.60 m to 23.4 m O. to O. Haunched R.C. slab on multicolumn piers and closed abutments. Built as S.A. Route 66, Sec. 066-0303.1-MFTat Station 4+61.67 (English) in 1945. Bridge was widened in 1969 and deck was rehabilitated in 1995.

Salvage: No salvage.

Note: All dimensions are in millimeters (mm) except as noted.
(Dimensions, Stations and Elevations in parenthesis are in English Units.)

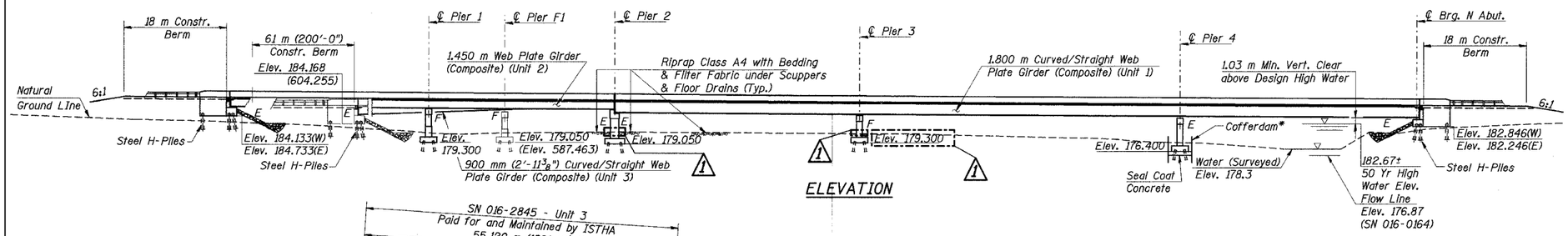
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Staging:
New bridge to be constructed while WB I-80/NB I-294 and EB I-94/I-80 traffic is maintained on existing bridge (SN 016-0164) and while SB IL-394 traffic has been detoured off the existing bridge to new NB IL-394 pavement.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. 80/94	•	COOK	870	515
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		

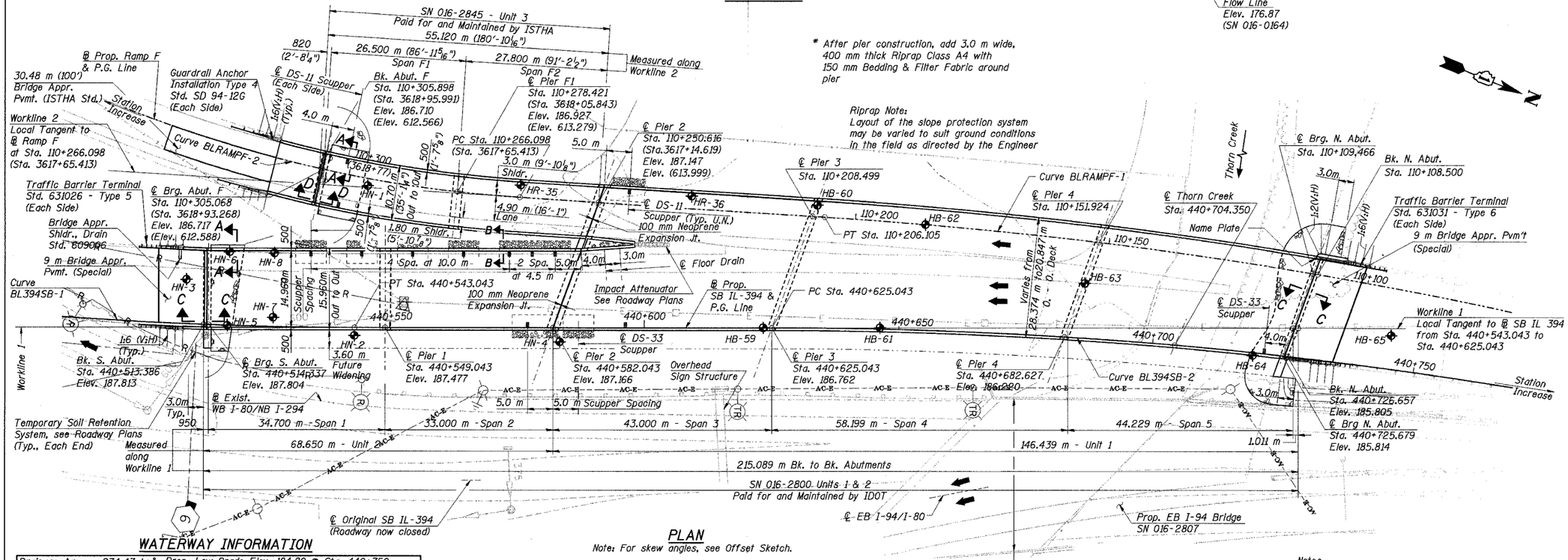
SHEET NO. 1
91 SHEETS

(0203.1 & 0312-708W) R-3
CONTRACT NO. 62108



* After pier construction, add 3.0 m wide, 400 mm thick Riprap Class A4 with 150 mm Bedding & Filter Fabric around pier

Riprap Note:
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer



PLAN

Note: For skew angles, see Offset Sketch.

WATERWAY INFORMATION

Drainage Area = 274.43 km² Prop. Low Grade Elev. 184.80 ℄ Sta. 440+750

	Freq. Yr.	Q m³/s	Opening m² Exist.	Opening m² Prop.	Nat. H.W.E.	Head-m. Exist.	Head-m. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	124.6		208.7	181.97		0.01		181.98
Design	50	188.3		276.1	182.67		0.01		182.68
Base	100	213.5		307.8	182.98		0.01		182.99
Overtop	100	213.5		---	182.98		---		---
Max. Calc.	500	280.3		339.6	183.77		0.03		183.82

LOADING MS18 & ALT.

Allow 2.4 kN/m² for future wearing surface.

DESIGN SPECIFICATIONS

2002 AASHTO
2003 AASHTO Guide Specifications for Horizontally Curved Steel Girder Highway Bridges
Bridge Design Criteria: IDOT except Illinois State Toll Highway Authority, June 2000 with Approved Revisions-Unit 3 only (Ramp F South of Pier 2, excluding Pier 2 Joint)

DESIGNED	DD
CHECKED	PCA
DRAWN	LK/JRB
CHECKED	PCA

DESIGN STRESSES

FIELD UNITS
f'_c = 24 MPa
f_y = 400 MPa (reinforcement)
f_y = 345 MPa (structural steel) (M270M Grade 345)
f_y = 250 MPa (structural steel) (M270M Grade 250)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = .04
Site Coefficient (S) = 1.0

LEGEND

- Boring
- Exist. Guardrail
- Exist. Manhole
- Exist. Inlet
- Exist. Light Pole
- Exist. Drainage
- Exist. Elec. Conduit
- Exist. Utility Power Pole
- Exist. Fence

Limits of Existing EB I-94 & SB IL 394 & WB I-80/ NB I-294 Bridge S.N. 016-0164

STATE OF ILLINOIS
PHILIP C. AZZARELLO
081-004245
CHICAGO, ILLINOIS
LICENSED STRUCTURAL ENGINEER

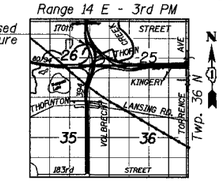
Philip C. Azzarello 11-30-05

Philip C. Azzarello, S.E.
Ill. Reg. No. 081-004245
Expires 11-30-06

Notes:

1. All Work shown on this drawing related to the fabrication of the structural steel and bearings is for information only.
2. Work this sheet with Sheet No. 3 of 91.

Range 14 E - 3rd PM



LOCATION SKETCH

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

GENERAL PLAN & ELEVATION

SB IL ROUTE 394 / RAMP F OVER THORN CREEK
F.A.P. 332 SECTION (0203.1 & 0312-708W) R-3
COOK COUNTY
STA. 440+704.350 STRUCTURE NO. 016-2800/2845

DATE JUL 18, 2005
SCALE ---

HNTB

1 Revised 11/30/2005, PCA

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. 80/94	*	COOK	870	516
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AND PROJECT-		

SHEET NO. 2
91 SHEETS

(0203.1 & 0312-708W) R-3 CONTRACT NO. 62108

GENERAL NOTES

THE FABRICATION OF THE STRUCTURAL STEEL AND BEARINGS FOR THIS BRIDGE WAS INCLUDED IN CONTRACT NO. 62898. ALL WORK SHOWN THAT IS RELATED TO THE FABRICATION IS FOR INFORMATION ONLY AND IS NOT INCLUDED IN THIS CONTRACT.

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

2. *Fasteners shall be high strength bolts. Bolts M 22, open holes 24 mm ϕ, unless otherwise noted.*

3. *Calculated mass of structural steel:*
   For SN 016-2800 (Units 1&2): 999,240 kg for M 270M Grade 345 and 5,660 kg for M 270M Grade 250.
   For SN 016-2845 (Unit 3): 140,620 kg for M 270M Grade 345 and 690 kg for M 270M Grade 250.

4. *The same organic zinc rich primer / epoxy / urethane Paint System used for the fabrication contract shall be used for painting of structural steel left partially or fully unpainted in the fabrication contract due to construction requirements. This includes, but is not necessarily limited to, masked off connection surfaces and field installed fasteners. Any structural steel that was painted under the fabrication contract whose paint system may have been damaged during the fabrication contract shall be spot cleaned and touched up in the field. For SN 016-2800 (Units 1 & 2), the color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1; and the color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Reddish Brown, Munsell No. 2.5YR 3/4. For SN 016-2845 (Unit 3), the color of the final finish coat for all interior and exterior steel surfaces shall be Interstate Green Munsell No. 7.5G 4/8. See Special Provision for "Cleaning and Painting New Metal Structures." The cost is included for payment under Erecting Structural Steel.*

5. *Field welding of construction accessories will not be permitted to the beams or girders.*

6. *Anchor bolts shall be set before bolting cross frames / diaphragms over supports.*

7. *The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the tension flanges and webs, the cross frames and connection plates, diaphragms and connection plates, and all splice plate material except fill plates.*

8. *Reinforcement bars shall conform to the requirements of AASHTO M 31M or M 322M Grade 400.*

9. *The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.*

10. *The Contractor shall drive one steel test pile in a permanent location at the South Abutment, Abutment F, Pier 1, and Pier F1; and two steel test piles in a permanent location at the North Abutment, Pier 2, Pier 3 and Pier 4 as directed by the Engineer before ordering the remainder of piles.*

11. *Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 3 mm. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 3 mm adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims. For Type I Elastomeric Bearings, two 3mm adjusting shims shall be provided for each bearing and placed as detailed.*

12. *Bridge Seat Sealer shall be applied to the seat area of the Abutments and Pier 2, including future widening.*

13. *All construction joints shall be bonded.*

14. *When the deck pour is stopped for the day at one or more of the transverse Bonded Construction Joints in the deck Pouring Sequence as shown, the next pour shall not be made until both of the following requirements are met:*
    1. *At least 72 hours shall have elapsed from the end of the previous pour.*
    2. *The concrete strength shall have attained a minimum flexural strength of 4.5 MPa or a minimum compressive strength of 24 MPa.*

15. *The stability of the partially erected structural steel is the Contractor's responsibility during all phases of construction. The Contractor shall submit for review and approval by the Engineer an erection plan with calculations for the erection of the structural steel. The plan must address as a minimum subassembly of the girders, erecting of the girders, placement of cross frames/diaphragms, bolting of cross frames/diaphragms, and removal of temporary supports. See Special Provisions for "Erecting Structural Steel". The cost of this work is included in the pay item "Erecting Structural Steel" or "Erecting Structural Steel (Girder Spans)".*

DESIGNED	PCA
CHECKED	MEA
DRAWN	LK
CHECKED	MEA

L.Kaiser
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
INDEX OF DRAWINGS

TOTAL BILL OF MATERIAL

	ITEM	UNIT	SUPER	SUB	TOTAL
IDOT	Porous Granular Embankment (Special)	Cu M	-	266	266
	Structure Excavation	Cu M	-	1,061	1,061
	Cofferdam (Pier 4)	Each	-	1	1
	Cofferdam Excavation	Cu M	-	470	470
	Seal Coat Concrete	Cu M	-	133	134
	Concrete Structures	Cu M	-	1,041.0	1,041.0
	Concrete Superstructure	Cu M	1,078.4	-	1,078.4
	Bridge Deck Grooving	Sq M	4,287	-	4,287
	Protective Coat	Sq M	4,943	-	4,943
	Furnishing & Erecting Structural Steel	KG	-	874	874
	Erecting Structural Steel	L Sum	0.55	-	0.55
	Erecting Floating Bearings, Guided Expansion 2000 KN	Each	-	10	10
	Erecting Floating Bearings, Fixed 2250 KN	Each	-	12	12
	Erecting Elastomeric Bearing Assembly, Type I	Each	-	24	24
	Erecting Elastomeric Bearing Assembly, Type III	Each	-	9	9
	Stud Shear Connectors	Each	11,531	-	11,531
	Reinforcement Bars, Epoxy Coated	KG	195,380	51,930	247,310
	Stone Riprap, Class A4	Sq M	-	802	802
	Filter Fabric	Sq M	-	1,040	1,040
	Furnishing Steel Piles HP 360x108	M	-	3,100.2	3,100.2
	Driving Steel Piles	M	-	3,100.2	3,100.2
	Test Pile Steel HP 360x108	Each	-	10	10
	Name Plates	Each	1	-	1
	Drainage Scuppers, DS-11	Each	9	-	9
	Drainage Scuppers, DS-33	Each	2	-	2
	Floor Drain	Each	2	-	2
	Strip Seal Expansion Joint Assembly	M	15.3	-	15.3
	Neoprene Expansion Joint, 100 mm	M	36.9	-	36.9
	Bridge Seat Sealer	Sq M	-	80	80
	Bar Splicers	Each	-	120	120
	Controlled Low-Strength Material	Cu M	-	30	30
ISTHA	Structure Excavation, Common	Cu M	-	154	154
	Porous Granular Backfill	Cu M	-	46	46
	Structural Subdrain (Filter Fabric) (6")	M	-	21	21
	High Performance Concrete for Bridges & Drainage Structures (Class DK - HPC)	Cu M	126.4	-	126.4
	Concrete for Bridges & Drainage Structures (Class SD)	Cu M	32.9	-	32.9
	Concrete for Bridges & Drainage Structures (Class SP)	Cu M	-	89.9	89.9
	Bridge Deck Grooving	Sq M	494	-	494
	Furnishing & Erecting Structural Steel (Miscellaneous)	KG	-	111	111
	Erecting Structural Steel (Girder Spans)	L Sum	1	-	1
	Stud-Type Shear Connectors	Each	6,093	-	6,093
	Reinforcing Steel, Epoxy Coated	KG	21,470	8,330	29,800
	Furnishing Steel Piles	M	-	425	425
	Driving Steel Piles	Each	-	28	28
	Test Piles	M	-	31	31
	Scupper	Each	2	-	2
	Erecting Elastomeric Bearing , Type I (800 in3<V<1000 in3)	Each	-	12	12
	Geocomposite Wall Drain	Sq M	-	20	20
	Bridge Expansion Joint Closure Preformed Joint Seal 4	M	10.7	-	10.7
	Bridge Expansion Joint Closure Neoprene Seal and Anchor Blocks 4	M	10.5	-	10.5
	Riprap, Hand-Laid	Sq M	-	148	148
	Apply Concrete Sealant	Sq M	664	12	676

Bill of Material Note:

IDOT pay item - Unit 1, Unit 2, Pier 2, and Unit 2 Joint at Pier 2.
ISTHA pay item - Unit 3 and Unit 3 Joint at Pier 2

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

GENERAL NOTES & QUANTITIES

SB IL ROUTE 394 / RAMP F OVER THORN CREEK
F.A.P. 332 SECTION (0203.1 & 0312-708W) R-3
COOK COUNTY
STA. 440+704.350 STRUCTURE NO. 016-2800/2845

DATE JUL 18, 2005
SCALE ---

HNTB

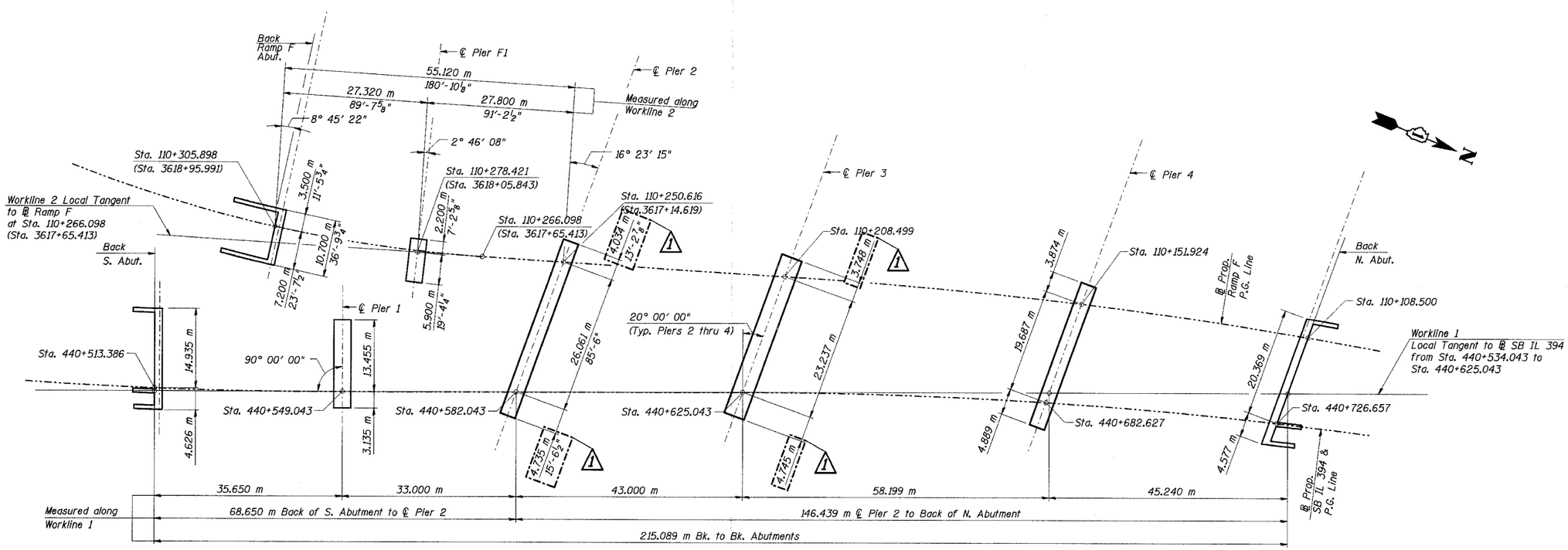
1 *Revised 11/30/2005, PCA*

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. 80/94	*	COOK	870	518
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 4
91 SHEETS

(0203.1 & 0312-708W) R-3 CONTRACT NO. 62108



FOOTING LAYOUT

Notes:

1. All dimensions are in millimeters (mm) except as noted.
2. Stations in parantheses are in English units.

DESIGNED	DBT
CHECKED	BDL
DRAWN	LK
CHECKED	DBT

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

FOOTING LAYOUT

SB IL ROUTE 394 / RAMP F OVER THORN CREEK
F.A.P. 332 SECTION (0203.1 & 0312-708W) R-3
COOK COUNTY
STA. 440+704.350 STRUCTURE NO. 016-2800/2845

DATE JUL 18, 2005
SCALE ---

HNTB

1 Revised 11/30/2005, PCA

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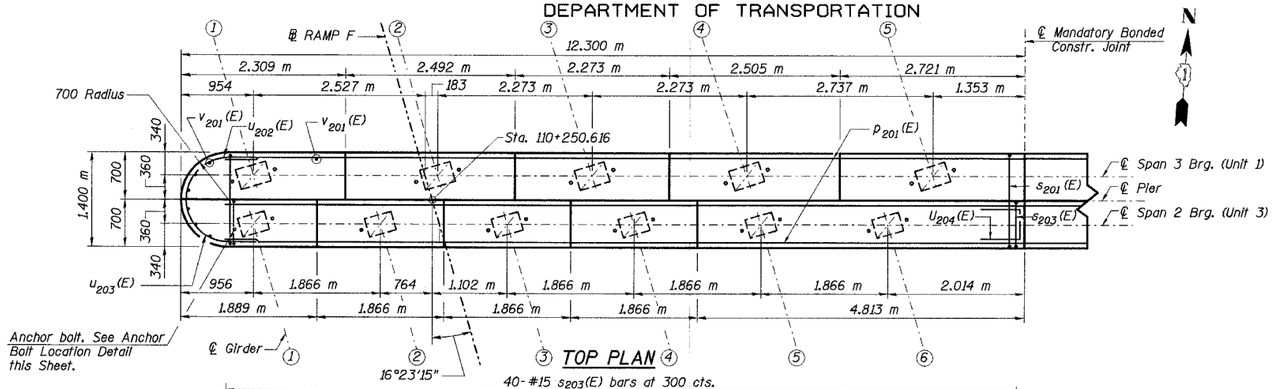
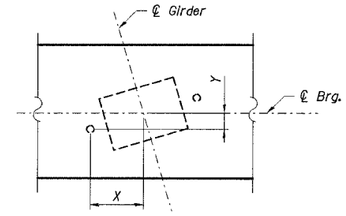
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. 80/94	*	COOK	870	586
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		

(0203.1 & 0312-708W) R-3 CONTRACT NO. 62108

SHEET NO. 72
91 SHEETS





ANCHOR BOLT LOCATION DETAILS

Span 2 Brg.			Span 3 Brg.		
Gir.	X	Y	Gir.	X	Y
1	279	82	1	314	92
2	279	82	2	314	92
3	279	82	3	312	97
4	279	82	4	311	102
5	279	82	5	311	102
6	279	82	-	-	-

Notes:

1. Work this sheet with No. 73, & 74 of 91.
2. Space reinforcement in cap to miss anchor bolts.
3. Pour steps monolithically with cap.
4. All dimensions are in millimeters (mm) except as noted.
5. Reinforcement Bars designated (E) shall be epoxy coated.
6. For Bill of Materials and bar bending diagrams, See Sheet No. 74 of 91 Sheets.
7. Bars indicated thus "14x3-#15 cts." indicates 14 lines of bars with 3 lengths per line.
8. For bearing orientation, see Sheet No. 59 of 91.

Indicates Battered Pile

DESIGNED	DBT/MAS
CHECKED	BDL/PCA
DRAWN	CAB/JRB/PCA
CHECKED	DBT/MAS

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

PIER 2 PLAN & ELEVATION (WEST)

SB IL ROUTE 394 OVER THORN CREEK
F.A.P. 332 SECTION (02033.1 & 0312-708W) R-3
COOK COUNTY
STA. 440+704.350 STRUCTURE NO. 016-2800

DATE JUL 18, 2005
SCALE ---

HNTB

1 Entire Sheet Revised 11/30/2005, PCA

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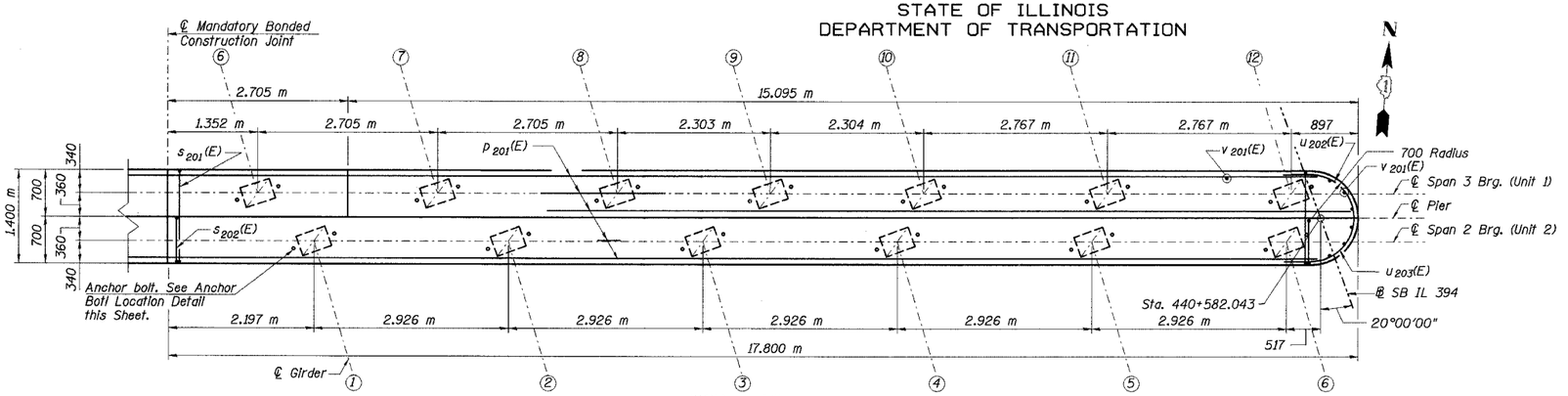
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

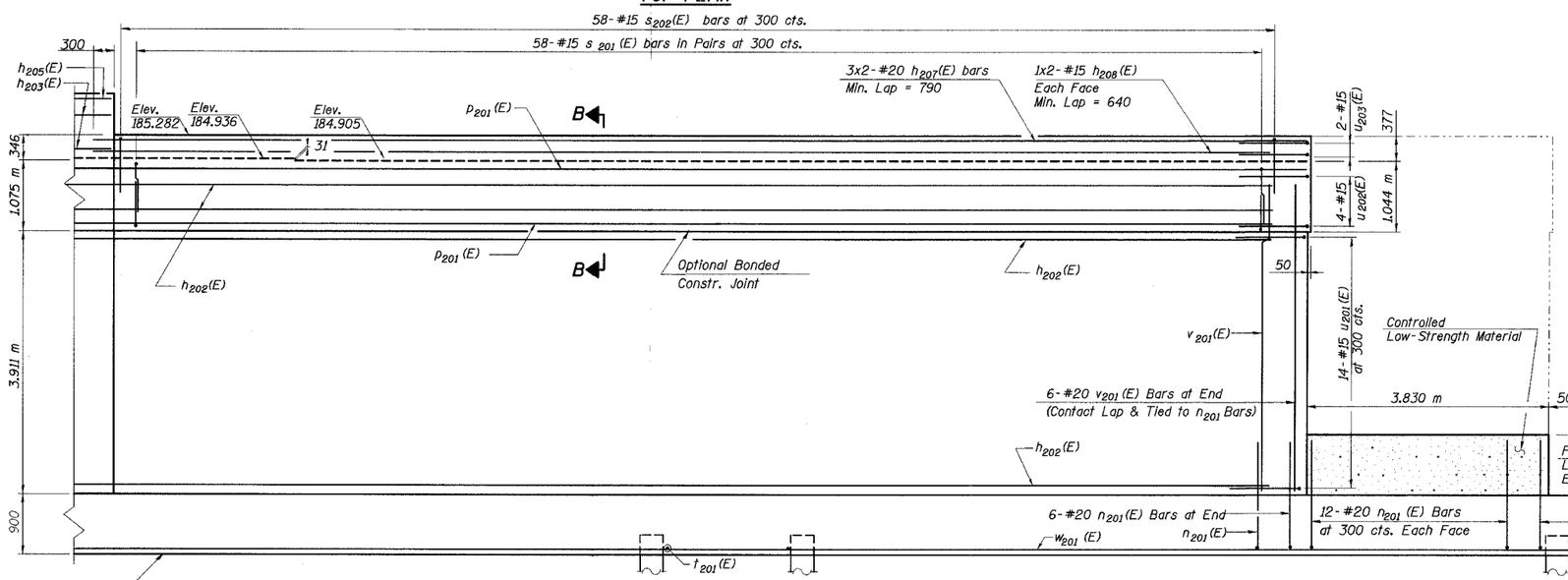
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. 80/94	•	COOK	870	587
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		

(0203.1 & 0312-708W) R-3 CONTRACT NO. 62108

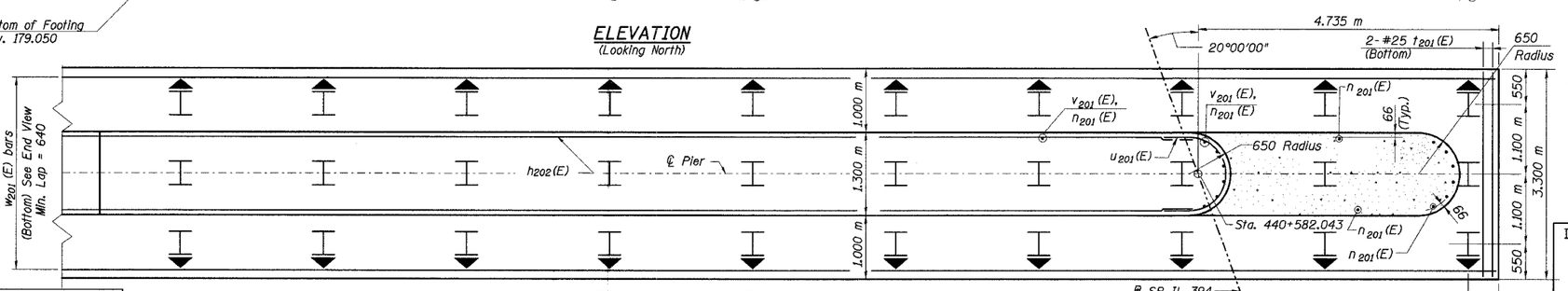
SHEET NO. 73
91 SHEETS



TOP PLAN

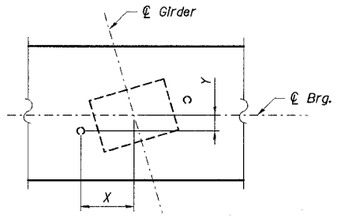


ELEVATION
(Looking North)



FOOTING PLAN

ANCHOR BOLT LOCATION DETAILS



Span 2 Brg.			Span 3 Brg.		
Gir.	X	Y	Gir.	X	Y
1	307	112	6	311	102
2	307	112	7	311	102
3	307	112	8	311	102
4	307	112	9	309	107
5	307	112	10	307	112
6	307	112	11	307	112
-	-	-	12	307	112

Notes:
1. Work this sheet with No. 72, & 74 of 91.
2. Space reinforcement in cap to miss anchor bolts.
3. Pour steps monolithically with cap.
4. All dimensions are in millimeters (mm) except as noted.
5. Reinforcement Bars designated (E) shall be epoxy coated.
6. For Bill of Materials and bar bending diagrams, See Sheet No. 74 of 91 Sheets.
7. Bars indicated thus "14x3-#15 cts." Indicates 14 lines of bars with 3 lengths per line.
8. For bearing orientation, see Sheet No. 59 of 91.

Indicates Battered Pile

DESIGNED	DBT/MAS
CHECKED	BDL/PCA
DRAWN	CAB/JRB/PCA
CHECKED	DBT/MAS

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

PIER 2 PLAN & ELEVATION (EAST)

SB IL ROUTE 394 OVER THORN CREEK
F.A.P. 332 SECTION (02033.1 & 0312-708W) R-3
COOK COUNTY
STA. 440+704.350 STRUCTURE NO. 016-2800

DATE JUL 18, 2005
SCALE ---

HNTB

1 Entire Sheet Revised 11/30/2005, PCA

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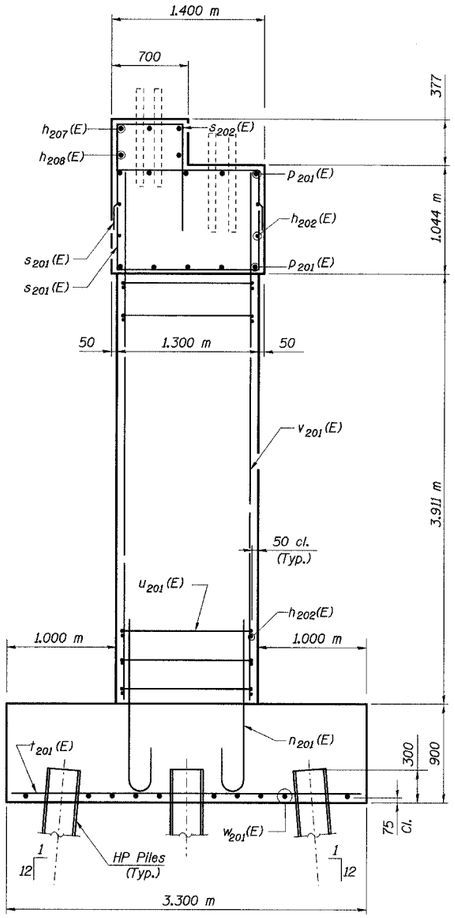
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

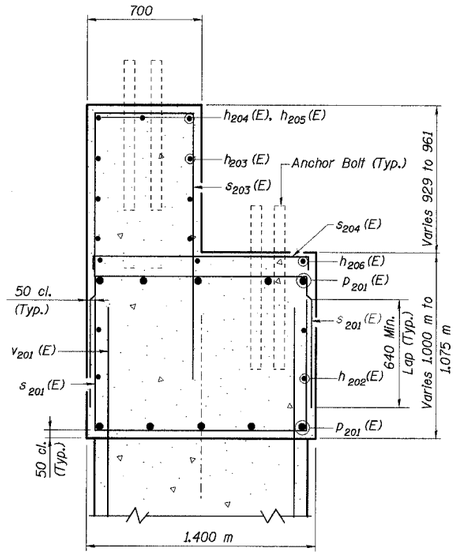
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. 80/94	*	COOK	870	588
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		

(0203.1 & 0312-708W) R-3 CONTRACT NO. 62108

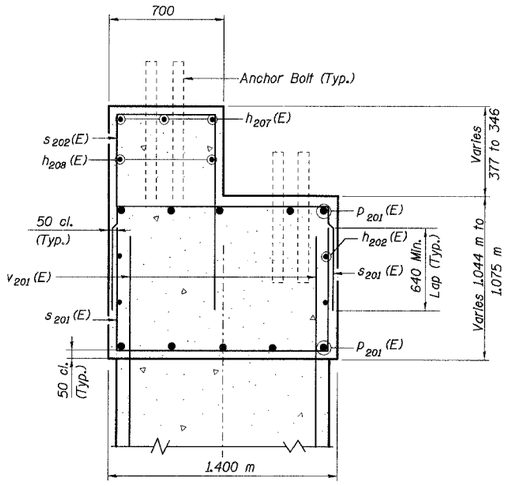
SHEET NO. 74
91 SHEETS



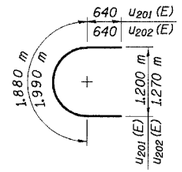
END VIEW
Looking West



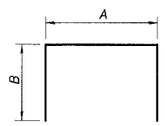
SECTION A-A



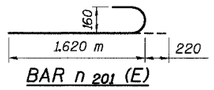
SECTION B-B



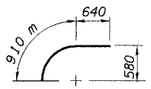
BARS u 201(E) & u202(E)



BARS s 201(E) thru s 205(E), u204(E)



BAR n 201 (E)



BAR u203(E)

A & B DIMENSIONS

Bar	A	B
s_{201} (E)	1300	810
s_{202} (E)	600	760
s_{203} (E)	600	1330
s_{204} (E)	1300	260
h_{205} (E)	570	260
u_{204} (E)	570	640

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
h_{202} (E)	128	#15	7.800	——
h_{203} (E)	6	#15	11.600	——
h_{204} (E)	3	#20	6.000	——
h_{205} (E)	3	#20	6.570	——
h_{206} (E)	3	#15	2.400	——
h_{207} (E)	6	#20	9.500	——
h_{208} (E)	4	#15	9.400	——
n_{201} (E)	236	#20	1.840	⊃
p_{201} (E)	30	#20	10.600	——
s_{201} (E)	196	#15	2.920	⊓
s_{202} (E)	58	#15	2.120	⊓
s_{203} (E)	40	#15	3.260	⊓
s_{204} (E)	4	#15	1.820	⊓
t_{201} (E)	154	#25	3.200	——
u_{201} (E)	28	#15	3.160	⊐
u_{202} (E)	8	#15	3.270	⊐
u_{203} (E)	6	#15	1.550	⊐
u_{204} (E)	3	#15	1.850	⊐
v_{201} (E)	206	#20	4.700	——
w_{201} (E)	40	#15	9.200	——

ITEM	UNIT	QUANTITY
Structure Excavation	m^3	316
Concrete Structures	m^3	311.1
Reinforcement Bars, Epoxy Coated	kg	10,040
Furnishing Steel Piles HP 360x108	m	644.0
Driving Steel Piles	m	644.0
Test Pile Steel HP 360x108	Each	2
Controlled Low Strengh Material	m^3	4.5

PILE DATA

Type: HP 360x108
Capacity: 650 kN (Driven to 975 kN Bearing)
Est. Length: 14.0 m
No. Reqd.: 48 (Includes 2 test piles)
Test Piles driven to 1460 kN

DESIGNED	DBT/MAS
CHECKED	BDL/PCA
DRAWN	CPM/PCA
CHECKED	DBT/MAS/JM

Notes:

1. Work this Sheet with Sheet No. 72 & 73 of 91.
2. All dimensions are in millimeters (mm) except as noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

PIER 2 SECTION & DETAILS

SB IL ROUTE 394 OVER THORN CREEK
F.A.P. 332 SECTION (02033.1 & 0312-708W) R-3
COOK COUNTY
STA. 440+704.350 STRUCTURE NO. 016-2800

DATE JUL 18, 2005
SCALE ---

HNTB

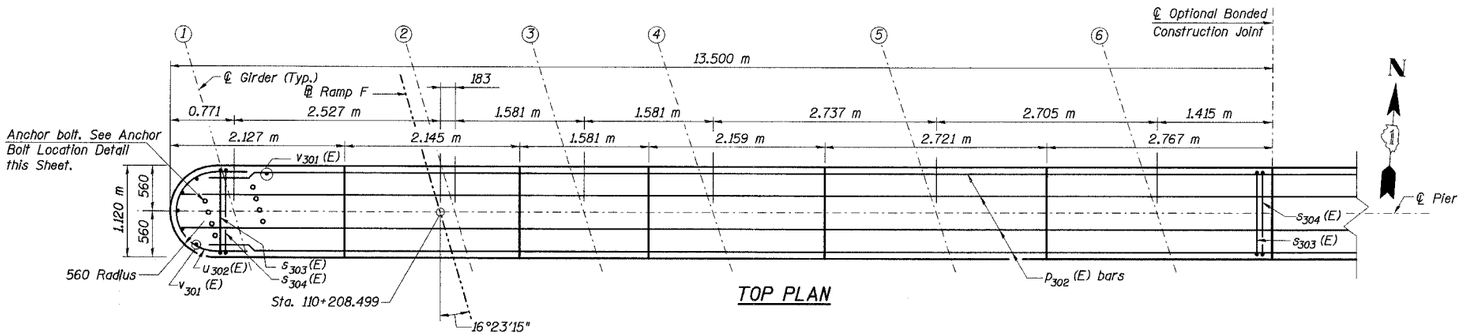
1 Entire Sheet Revised 11/30/2005, PCA

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

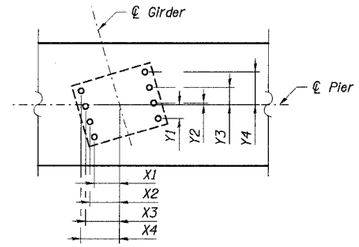
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. 80/94	*	COOK	870	589
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT-	

(0203.1 & 0312-708W) R-3 CONTRACT NO. 62108

SHEET NO. 75
91 SHEETS

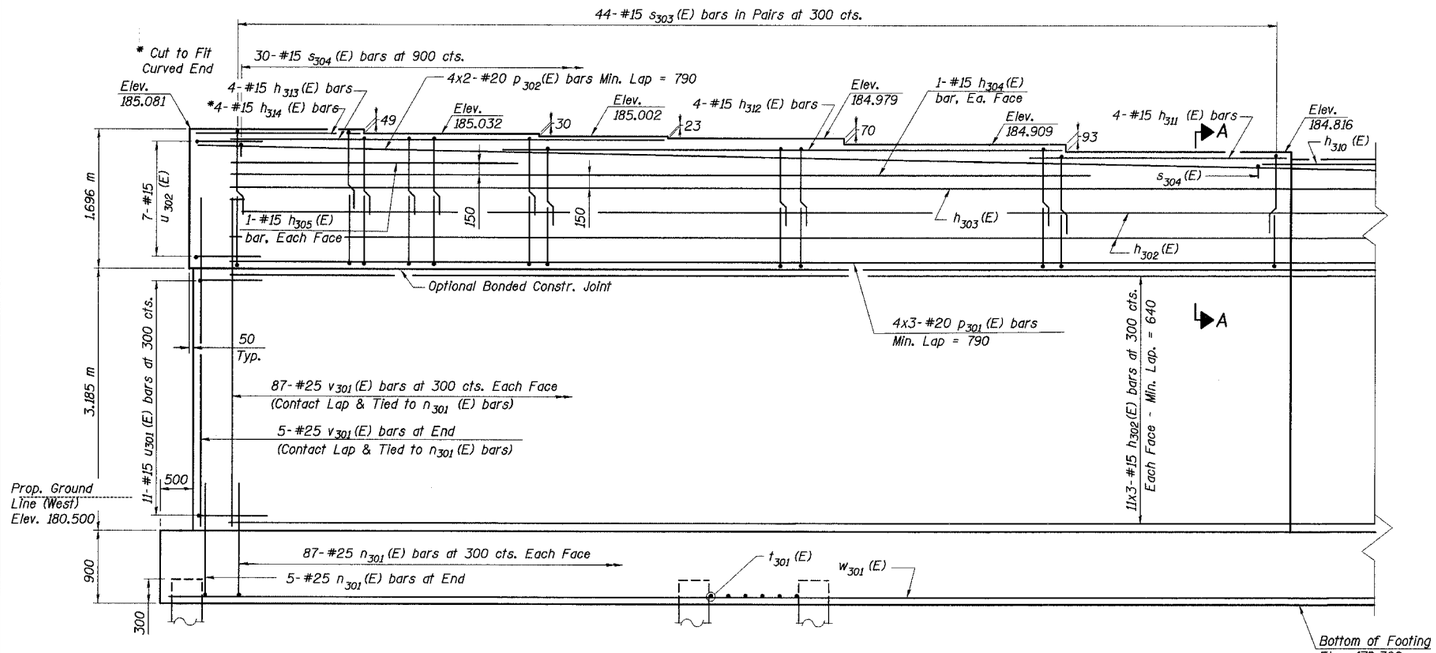


TOP PLAN



ANCHOR BOLT LOCATION DETAILS

Glr.	X1	X2	X3	X4	Y1	Y2	Y3	Y4
1	231	272	313	355	125	16	157	297
2	231	272	313	355	125	16	157	297
3	226	270	313	357	119	21	161	301
4	221	267	313	358	114	26	166	304
5	221	267	313	358	114	26	166	304
6	221	267	313	358	114	26	166	304



ELEVATION
(Looking North)

Notes:

1. Work this sheet with No. 76, 77, & 78 of 91.
2. Space reinforcement in cap to miss anchor bolts.
3. Pour steps monolithically with cap.
4. All dimensions are in millimeters (mm) except as noted.
5. Reinforcement Bars designated (E) shall be epoxy coated.
6. For Bill of Materials and bar bending diagrams, See Sheet No. 78 of 91 Sheets.
7. Bars indicated thus "11x3-#15 cts." indicates 11 lines of bars with 3 lengths per line.

DESIGNED	DBT/MAS
CHECKED	BDL/PCA
DRAWN	CAB/JRB/PCA
CHECKED	DBT/KGN

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND
PIER 3 PLAN & ELEVATION (WEST)

SB IL ROUTE 394 OVER THORN CREEK
F.A.P. 332 SECTION (02033.1 & 0312-708W) R-3
COOK COUNTY
STA. 440+704.350 STRUCTURE NO. 016-2800

DATE JUL 18, 2005
SCALE ---

HNTB

1 Entire Sheet Revised 11/30/2005, PCA

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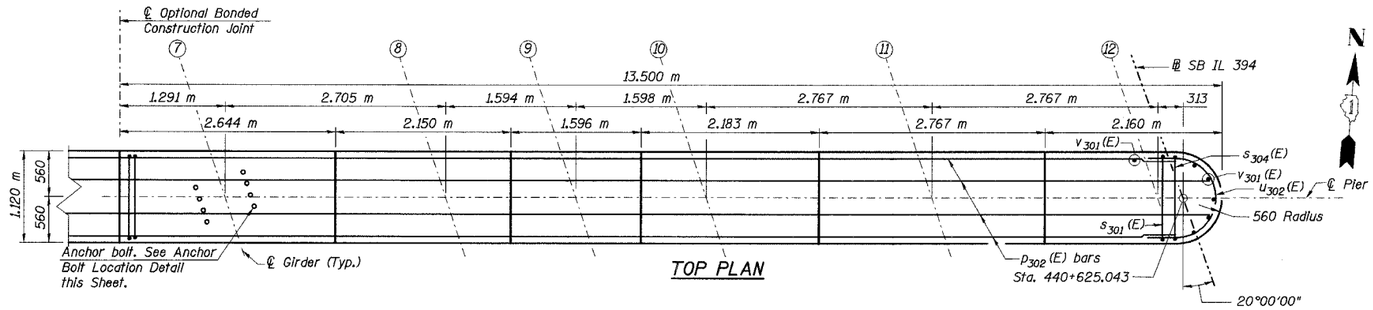
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

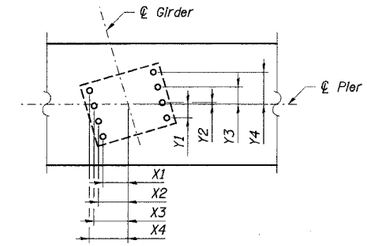
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. 80/94	*	COOK	870	590
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 76
91 SHEETS

(0203.1 & 0312-708W) R-3 CONTRACT NO. 62108

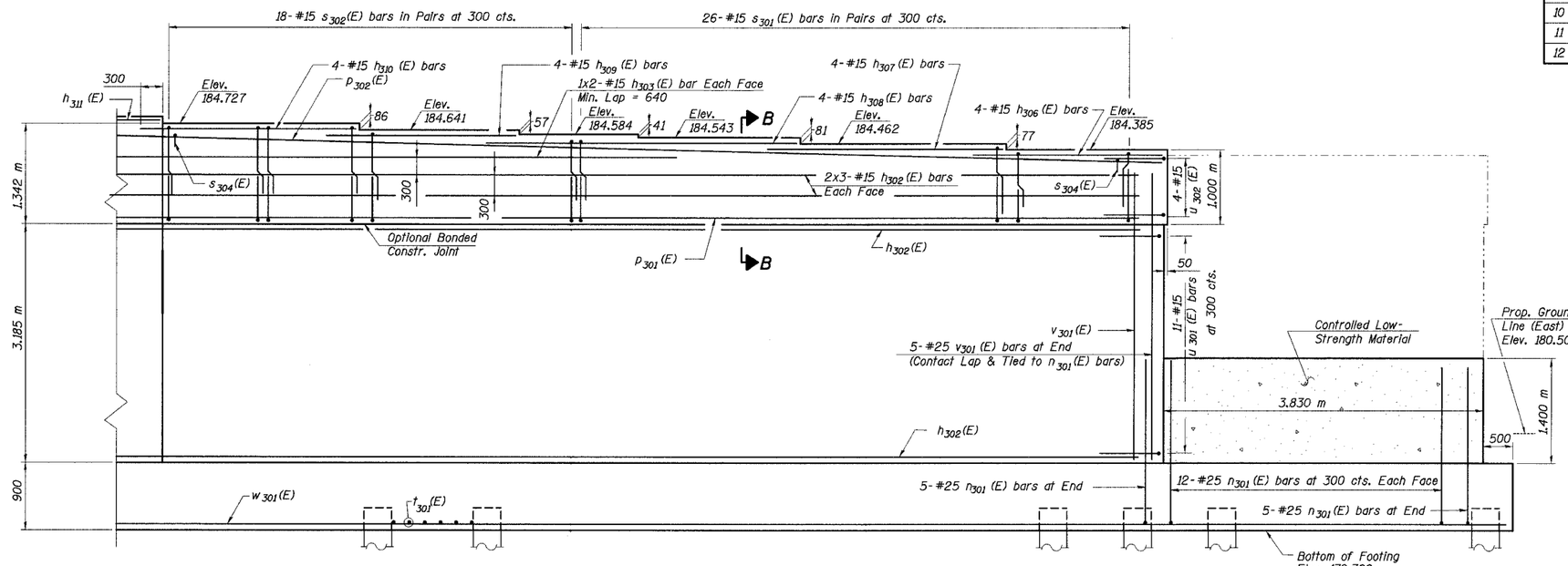


TOP PLAN



ANCHOR BOLT LOCATION DETAILS

Gir.	X1	X2	X3	X4	Y1	Y2	Y3	Y4
7	221	267	313	358	114	26	166	304
8	221	267	313	358	114	26	166	304
9	216	264	312	360	108	31	170	308
10	211	262	312	362	102	36	174	311
11	211	262	312	362	102	36	174	311
12	211	261	311	362	102	36	174	311



ELEVATION
(Looking North)

Notes:

1. Work this sheet with No. 75, 77, & 78 of 91.
2. Space reinforcement in cap to miss anchor bolts.
3. Pour steps monolithically with cap.
4. All dimensions are in millimeters (mm) except as noted.
5. Reinforcement Bars designated (E) shall be epoxy coated.
6. For Bill of Materials and bar bending diagrams, See Sheet No. 78 of 91 Sheets.
7. Bars indicated thus "11x3-#15 cts." indicates 11 lines of bars with 3 lengths per line.

DESIGNED	DBT/MAS
CHECKED	BDL/PCA
DRAWN	CAB/JRB/PCA
CHECKED	DBT/KGN

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND
PIER 3 PLAN & ELEVATION (EAST)

SB IL ROUTE 394 OVER THORN CREEK
F.A.P. 332 SECTION (02033.1 & 0312-708W) R-3
COOK COUNTY
STA. 440+704.350 STRUCTURE NO. 016-2800

DATE JUL 18, 2005
SCALE ---

HNTB

1 Entire Sheet Revised 11/30/2005, PCA

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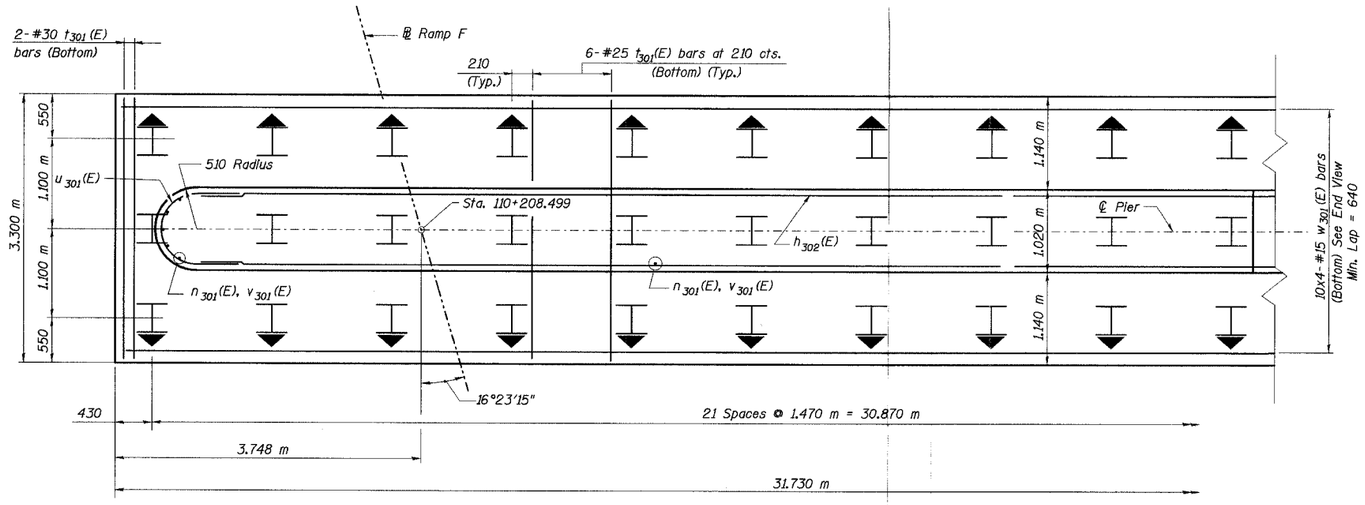
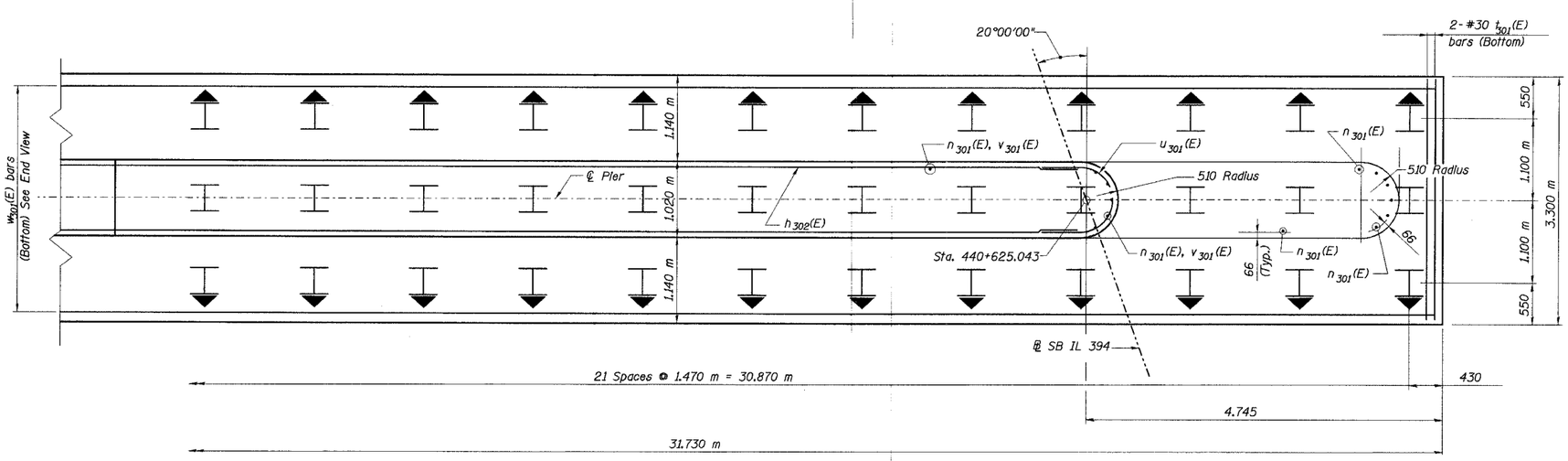
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. 80/94	*	COOK	870	591
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		

(0203.1 & 0312-708W) R-3 CONTRACT NO. 62108

SHEET NO. 77
91 SHEETS





FOOTING PLAN

PILE DATA

Type: HP 360x108
Capacity: 650 kN (Driven to 975 kN Bearing)
Est. Length: 11.30 m
No. Reqd.: 66 (Includes 2 test pile)
Test Piles driven to 1460 kN

Notes:

1. Work this sheet with No. 75, 76, & 78 of 91.
2. All dimensions are in millimeters (mm) except as noted.
3. Reinforcement Bars designated (E) shall be epoxy coated.
4. For bill of Materials and bar bending diagrams, See Sheet No. 78 of 91 Sheets.
5. Bars indicated thus "11x3-#15 cts." indicates 11 lines of bars with 3 lengths per line.

Indicates Battered Pile

DESIGNED	DBT/MAS
CHECKED	BDL/PCA
DRAWN	CAB/JRB/PCA
CHECKED	DBT/KGN

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

PIER 3 FOOTING PLAN

SB IL ROUTE 394 OVER THORN CREEK
F.A.P. 332 SECTION (02033.1 & 0312-708W) R-3
COOK COUNTY
STA. 440+704.350 STRUCTURE NO. 016-2800

DATE JUL 18, 2005
SCALE ---

HNTB

1 Entire Sheet Revised 11/30/2005, PCA

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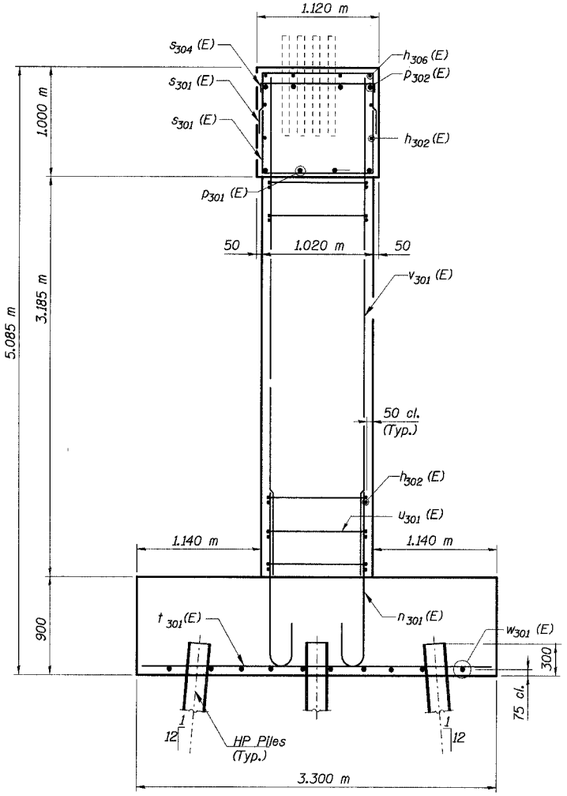
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

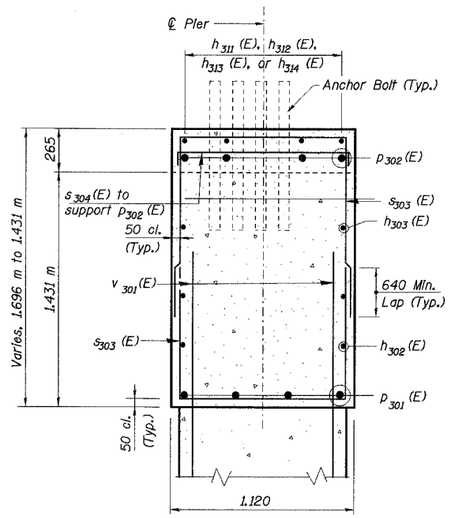
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. 80/94	•	COOK	870	592
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 78
91 SHEETS

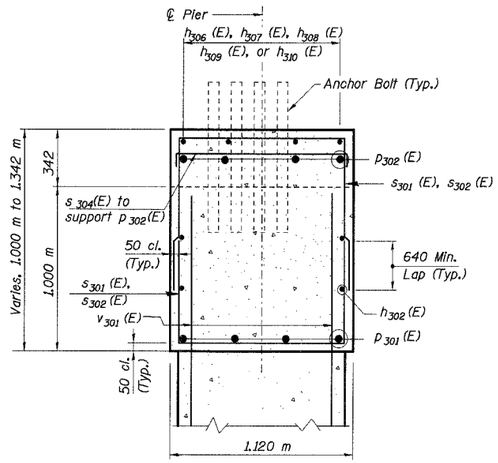
(0203.1 & 0312-708W) R-3 CONTRACT NO. 62108



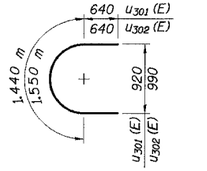
END VIEW
(Looking West)



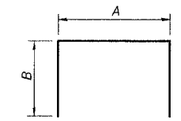
SECTION A-A



SECTION B-B



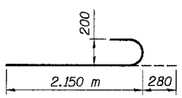
BARS u_{301}(E) & u_{302}(E)



BARS s_{301} (E) thru s_{304} (E)

A & B DIMENSIONS

Bar	A	B
s_{301} (E)	1020	870
s_{302} (E)	1020	940
s_{303} (E)	1020	1120
s_{304} (E)	1020	260



BAR n_{301}(E)

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
h_{302} (E)	78	#15	9.100	——
h_{303} (E)	4	#15	10.200	——
h_{304} (E)	2	#15	10.100	——
h_{305} (E)	2	#15	3.700	——
h_{306} (E)	4	#15	2.500	——
h_{307} (E)	4	#15	3.100	——
h_{308} (E)	4	#15	4.100	——
h_{309} (E)	4	#15	2.500	——
h_{310} (E)	4	#15	2.900	——
h_{311} (E)	4	#15	3.100	——
h_{312} (E)	4	#15	6.800	——
h_{313} (E)	4	#15	5.100	——
h_{314} (E)	4	#15	2.000	——
n_{301} (E)	213	#25	2.430	⊃
p_{301} (E)	12	#20	9.200	——
p_{302} (E)	8	#20	13.800	——
s_{301} (E)	52	#15	2.760	⊓
s_{302} (E)	36	#15	2.900	⊓
s_{303} (E)	88	#15	3.260	⊓
s_{304} (E)	30	#15	1.540	⊓
t_{301} (E)	130	#25	3.200	——
u_{301} (E)	22	#15	2.720	⊃
u_{302} (E)	11	#15	2.830	⊃
v_{301} (E)	184	#25	3.970	——
w_{301} (E)	40	#15	8.400	——

ITEM	UNIT	QUANTITY
Structure Excavation	m^3	253
Concrete Structures	m^3	222.0
Reinforcement Bars, Epoxy Coated	kg	10,060
Furnishing Steel Piles HP 360x152	m	724.0
Driving Steel Piles	m	724.0
Test Pile Steel HP 360x152	Each	2
Controlled Low Strengh Material	m^3	5.5

Notes:

1. Work this Sheet with Sheet No. 75, 76, & 77 of 91.
2. All dimensions are in millimeters (mm) except as noted.

DESIGNED	DBT/MAS
CHECKED	BDL/PCA
DRAWN	CAB/PCA
CHECKED	DBT/KGN

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

PIER 3 SECTION & DETAILS

SB IL ROUTE 394 OVER THORN CREEK
F.A.P. 332 SECTION (02033.1 & 0312-708W) R-3
COOK COUNTY
STA. 440+704.350 STRUCTURE NO. 016-2800

DATE JUL 18, 2005
SCALE ---

HNTB

1 Entire Sheet Revised 11/30/2005, PCA

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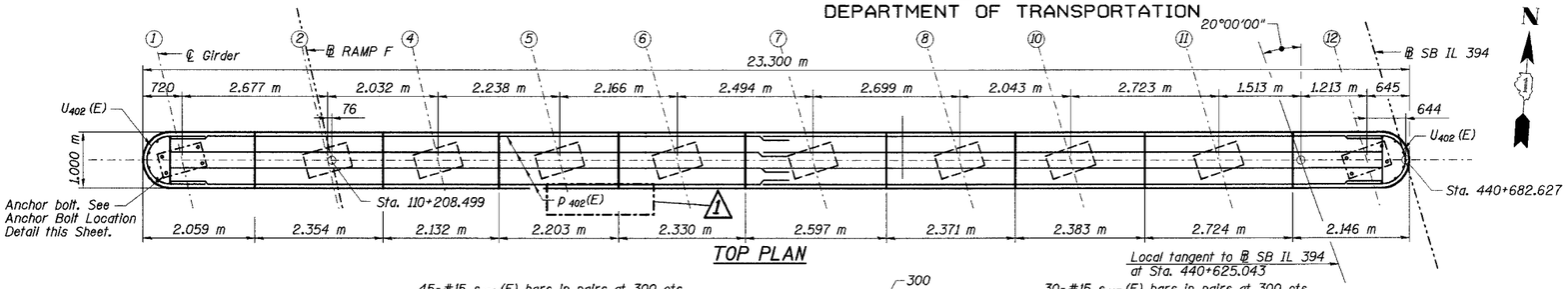
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

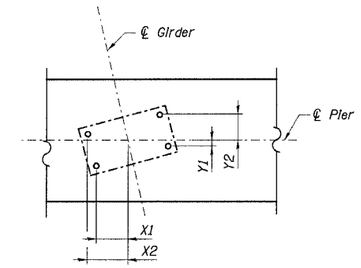
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. 80/94	*	COOK	870	593
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 79
91 SHEETS

(0203.1 & 0312-708W) R-3 CONTRACT NO. 62108

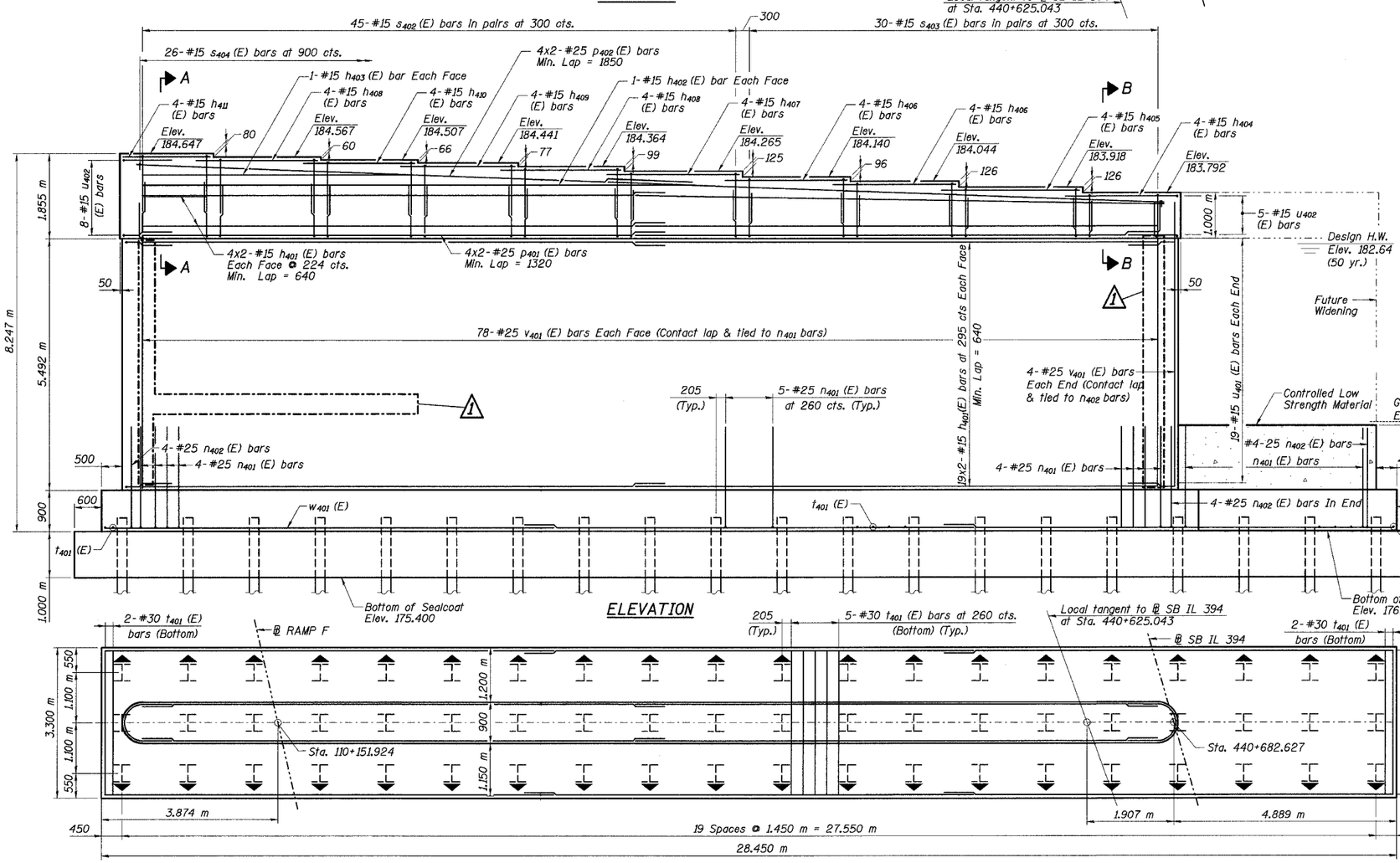


TOP PLAN



ANCHOR BOLT LOCATION DETAILS

Gir.	X1	X2	Y1	Y2
1	292	370	56	234
2	292	370	56	234
4	287	371	49	239
5	285	371	46	242
6	283	372	42	244
7	282	372	41	245
8	282	372	41	245
10	277	372	34	251
11	277	372	34	251
12	277	372	33	251



ELEVATION

FOOTING PLAN

Notes:

1. Work this sheet with No. 80 of 91.
2. Space reinforcement in cap to miss anchor bolts.
3. Pour steps monolithically with cap.
4. All dimensions are in millimeters (mm) except as noted.
5. Reinforcement Bars designated (E) shall be epoxy coated.
6. For Bill of Materials and bar bending diagrams. See Sheet No. 74 of 91 Sheets.
7. Bars indicated thus "11x3-#15 cts." indicates 11 lines of bars with 3 lengths per line.
8. For bearing orientation, see Sheet No. 5[illegible] of 91.

Indicates Battered Pile

DESIGNED	DBT
CHECKED	BDL
DRAWN	SKM
CHECKED	DBT

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

PIER 4 PLAN & ELEVATION

SB IL ROUTE 394 OVER THORN CREEK
F.A.P. 332 SECTION (02033.1 & 0312-708W) R-3
COOK COUNTY
STA. 440+704.350 STRUCTURE NO. 016-2800

DATE JUL 18, 2005
SCALE ---

HNTB

1 Revised 11/30/2005, PCA

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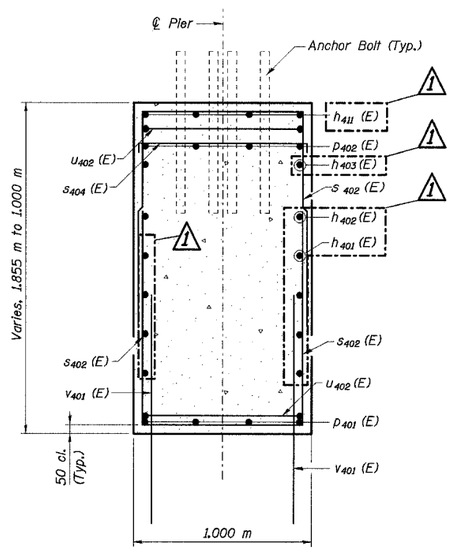
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

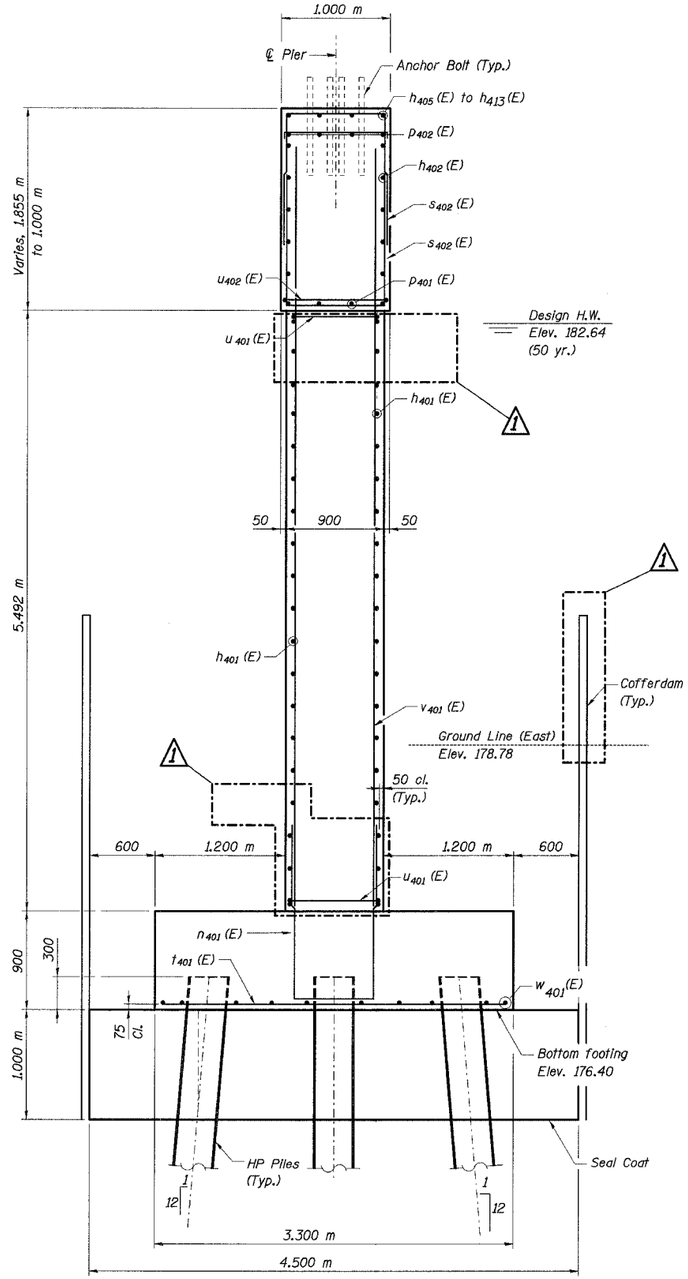
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. 80/94	*	COOK	870	594
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 80
91 SHEETS

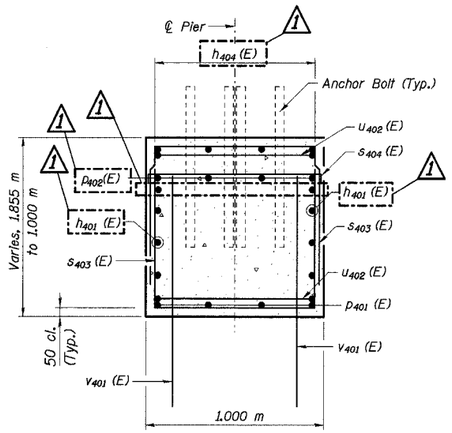
(0203.1 & 0312-708W) R-3 CONTRACT NO. 62108



SECTION A-A



END VIEW

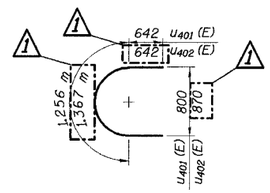


SECTION B-B

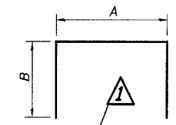
PILE DATA

Type: HP 360x108
Capacity: 650 kN (Driven to 975 kN Bearing)
Est. Length: 8.2 m
No. Reqd.: 60 (Includes 2 test piles)
Test Piles driven to 1460 kN

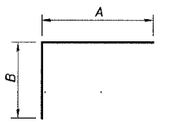
DESIGNED	DBT
CHECKED	BDL
DRAWN	SKM
CHECKED	DBT



BAR u401 (E) & u402 (E)



BARS s402 (E) - s404 (E) & n401 (E)



BARS n402 (E)

A & B DIMENSIONS

Bar	A	B
s402 (E)	900	1200
s403 (E)	900	950
s404 (E)	900	260
n401 (E)	770	2200
n402 (E)	400	2200

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
h401 (E)	92	#15	11.470	——
h402 (E)	2	#15	11.980	——
h403 (E)	2	#15	5.600	——
h404 (E)	4	#15	2.030	——
h405 (E)	4	#15	3.060	——
h406 (E)	8	#15	2.720	——
h407 (E)	4	#15	2.930	——
h408 (E)	8	#15	2.690	——
h409 (E)	4	#15	2.540	——
h410 (E)	4	#15	2.470	——
h411 (E)	4	#15	1.510	——
n401 (E)	92	#25	5.170	⌊
n402 (E)	12	#25	2.600	L
p401 (E)	8	#25	11.810	——
p402 (E)	8	#25	12.180	——
s402 (E)	90	#15	3.300	⊓
s403 (E)	60	#15	2.800	⊓
s404 (E)	26	#15	1.420	⊓
t401 (E)	99	#30	3.100	——
u401 (E)	38	#15	2.540	⊃
u402 (E)	13	#15	2.650	⊃
v401 (E)	164	#25	6.230	——
w401 (E)	30	#15	9.880	——

ITEM	UNIT	QUANTITY
Cofferdam Excavation	m³	470
Cofferdam	Each	1
Concrete Structures	m³	236.8
Reinforcement Bars, Epoxy Coated	kg	11,770
Furnishing Steel Piles HP 360x108	m	476.0
Driving Steel Piles	m	476.0
Test Pile Steel HP 360x108	Each	2
Controlled Low Strength Material	m³	6.9
Seal Coat Concrete	m³	133.4

Notes:

1. Work this Sheet with Sheet No. 79 of 91.
2. All dimensions are in millimeters (mm) except as noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

PIER 4 SECTION & DETAILS

SB IL ROUTE 394 OVER THORN CREEK
F.A.P. 332 SECTION (02033.1 & 0312-708W) R-3
COOK COUNTY
STA. 440+704.350 STRUCTURE NO. 016-2800

DATE JUL 18, 2005
SCALE ---

HNTB

1 Revised 11/30/2005, PCA

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. 80/94	•	COOK	870	612
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 2
56 SHEETS

(0203.1 & 0312-708WR-3 CONTRACT NO. 62108

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

THE FABRICATION OF THE STRUCTURAL STEEL, BEARINGS AND MODULAR EXPANSION JOINTS FOR THIS BRIDGE WAS INCLUDED IN CONTRACT NO. 62898. ALL WORK SHOWN THAT IS RELATED TO THE FABRICATION IS FOR INFORMATION ONLY AND IS NOT INCLUDED IN THIS CONTRACT.

1. All dimensions are in millimeters (mm) except as noted.
2. Fasteners shall be high strength bolts. Bolts M 22, open holes 24 mm ϕ, unless otherwise noted.
3. Calculated mass of structural steel for the fabrication contract =605,650 kg for M 270M Grade 345 and 2,440 kg for M 270M Grade 250 and is provided for information only.
4. The same organic zinc rich primer / epoxy / urethane Paint System used for the fabrication contract shall be used for painting of structural steel left partially or fully unpainted in the fabrication contract due to construction requirements. This includes, but is not necessarily limited to, masked off connection surfaces and field installed fastener. Any structural steel that was painted under the fabrication contract whose paint system may have been damaged during the fabrication contract shall be spot cleaned and touched up in the field. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Reddish Brown, Munsell No. 2.5YR 3/4. See special Provision for "Cleaning and Painting New Metal Structures." The cost is included for payment under Erecting Structural Steel.
5. Field welding of construction accessories will not be permitted to the beams or girders.
6. The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the tension flanges and webs, the cross frames and connection plates (except fill plates), and all splice plate material except fill plates.
7. Reinforcement bars shall conform to the requirements of AASHTO M 31M or M 322M Grade 400.
8. The embankment configuration shown at the west abutment shall be the minimum embankment that must be constructed prior to construction of the abutments.
9. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 3 mm. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 3 mm adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.
10. The existing structural steel coating for the bearing may contain lead based paint. The Contractor should take appropriate precautions to deal with the presence of lead on this project. No additional compensation will be made to properly dispose of items containing lead.
11. Bridge Seat Sealer shall be applied to the seat area of the Abutments.
12. All construction joint shall be bonded.
13. When the deck pour is stopped for the day at one or more of the transverse Bonded Construction Joints in the deck Pouring Sequence as shown, the next pour shall not be made until both of the following requirements are met:
    1. At least 72 hours shall have elapsed from the end of the previous pour.
    2. The concrete strength shall have attained a minimum flexural strength of 4.5 MPa or a minimum compressive strength of 24 MPa.
14. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
15. The back face of the closed East Abutments and wingwalls shall be waterproofed accoring to Article 503.18 of the Standard Specifications.
16. The location of permanent and temporary casings shown on the plans were based on soil information provided by the borings performed and do not reflect any variations that may occur between the borings or elsewhere on the site, variations whose nature and extent may not become evident until a later stage of construction. The actual transition between soil types in the field may be gradual in horizontal and vertical directions. Should conditions encountered during excavation and construction operations differ from those encountered in the borings, IDOT should be notified so that recommendations can be reviewed and revised if necessary.
17. Permanent casings will be required at locations where the thickness of soft cohesive and loose granular layers is large, while temporary casing will be required at the locations where these potentially "caving in" materials have a limited extent. The locations based on the borings have been noted on the plans. However, the contractor should be prepared to use temporary casing even at the locations where no soft or loose soils were encountered in the borings.
18. The Contractor shall take into account the presence of riprap at the locations of the existing abutments and piers when determining his bid price for Drilled Shaft In Soil. No additional compensation will be paid for installing the drilled shafts at these locations.
19. The stability of the partially erected structural steel is the Contractor's responsibility during all phases of construction. The Contractor shall submit for review and approval by the Engineer an erection plan with calculations for the erection of the structural steel. The plan must address as a minimum subassembly of the girders, erecting of the girders, placement of diaphragms, bolting of diaphragms, and removal of temporary supports. See Special Provisions for "Erecting Structural Steel". The cost of this work is included in the pay item "Erecting Structural Steel".
20. Anchor bolts shall be set before bolting diaphragms over supports.

DESIGNED	JJK
CHECKED	PCA
DRAWN	LK
CHECKED	PCA

INDEX OF DRAWINGS

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, (Special)	Cu M	-	791	791
Structure Excavation	Cu M	-	483	483
Temporary Sheet Piling	Sq M	-	544	544
Temporary Soil Retention System	Sq M	-	79	79
Concrete Structures	Cu M	-	565.7	565.7
Concrete Superstructure	Cu M	788.2	-	788.2
Bridge Deck Grooving	Sq M	2,976	-	2,976
Protective Coat	Sq M	3,490	-	3,490
Furnishing and Erecting Structural Steel	Kg	810	-	810
Erecting Structural Steel	L Sum	0.34	-	0.34
Erecting Floating Bearings, Guided Expansion 750 kN	Each	12	-	12
Erecting Floating Bearings, Guided Expansion 1250 kN	Each	2	-	2
Erecting Floating Bearings, Guided Expansion 1500 kN	Each	12	-	12
Erecting Floating Bearings, Guided Expansion 8000 kN	Each	1	-	1
Erecting Floating Bearings, Fixed 1500 kN	Each	12	-	12
Stud Shear Connectors	Each	12,479	-	12,479
Reinforcement Bars, Epoxy Coated	Kg	136,530	20,080	156,610
Reinforcement Bars	Kg	-	73,065	73,065
Stone Riprap, Class A4	Sq M	-	1,580	1,580
Filter Fabric	Sq M	-	1,858	1,858
Erecting Modular Expansion Joint	Meter	14.7	-	14.7
Drilled Shaft In Soil 610mm	Meter	-	25.0	25.0
Drilled Shaft In Soil 915mm	Meter	-	49.0	49.0
Drilled Shaft In Soil 1220mm	Meter	-	298.1	298.1
Drilled Shaft In Soil 1676mm	Meter	-	130.1	130.1
Drilled Shaft In Soil 1981mm	Meter	-	12.9	12.9
Permanent Casing	Meter	-	286.4	286.4
Removal of Existing Structure No. 3	Each	-	-	1
Name Plates	Each	-	-	1
Drainage Scuppers, DS-11	Each	5	-	5
Neoprene Expansion Joint, 100 mm	Meter	15.2	-	15.2
Bridge Seat Sealer	Sq M	-	23.2	23.2
Bar Splicers	Each	-	98	98

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

GENERAL NOTES, INDEX & QUANTITIES

EB I-94 OVER THORN CREEK
F.A.I. 94 SECTION (0203.1 & 0312-708W) R-3
COOK COUNTY
STA. 20+509.000 STRUCTURE NO. 016-2807

DATE JUL 18, 2005
SCALE ---

HNTB

1 Revised 11/30/2005, PCA

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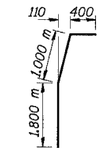
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

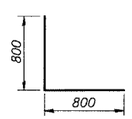
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. 80/94	•	COOK	870	647
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 37
56 SHEETS

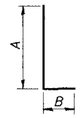
(0203.1 & 0312-708W)R-3 CONTRACT NO. 62108



BAR $d_{10}(E)$

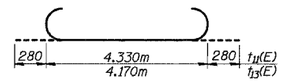


BAR $h_{19}(E)$

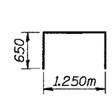


BARS $n_{10}(E)$ thru $n_{15}(E)$

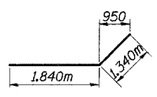
Rebar	A (m)	B (m)
$n_{10}(E)$	2.720	0.470
$n_{11}(E)$	3.250	0.550
$n_{12}(E)$	3.510	0.470
$n_{13}(E)$	4.000	0.550
$n_{14}(E)$	1.800	0.410
$n_{15}(E)$	3.000	0.650



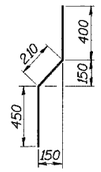
BAR $t_{11}(E)$ & $t_{13}(E)$



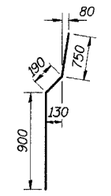
BAR $v_{12}(E)$



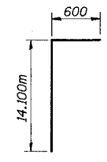
BAR $v_{13}(E)$



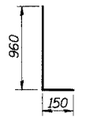
BAR $v_{14}(E)$



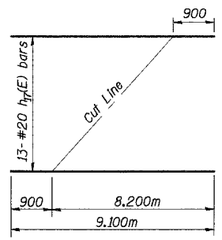
BAR $v_{19}(E)$



BAR $v_{21}(E)$

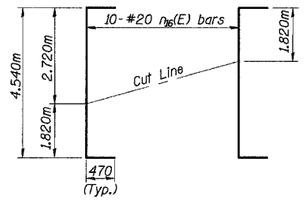


BAR $v_{22}(E)$



FIELD CUTTING DIAGRAM for $h_{17}(E)$ bars

Order $h_{17}(E)$ full length. Cut as shown for F.F. and use remainder of bars in B.F.



FIELD CUTTING DIAGRAM for $n_{16}(E)$ bars

Order $n_{16}(E)$ full length. Cut as shown for F.F. and use remainder of bars in B.F.

BILL OF MATERIAL (1)

Bar	No.	Size	Length (m)	Shape
$d_{10}(E)$	3	#25	3.000	
$d_{11}(E)$	3	#25	2.900	
$h_{10}(E)$	56	#15	8.070	
$h_{11}(E)$	2	#15	2.670	
$h_{12}(E)$	4	#15	6.900	
$h_{13}(E)$	8	#15	4.200	
$h_{14}(E)$	2	#15	2.440	
$h_{15}(E)$	8	#20	8.070	
$h_{16}(E)$	8	#15	8.700	
$h_{17}(E)$	13	#15	9.100	
$h_{18}(E)$	46	#15	10.880	
$h_{19}(E)$	10	#15	1.600	
$h_{20}(E)$	2	#15	2.400	
$n_{10}(E)$	34	#20	3.190	
$n_{11}(E)$	40	#25	3.800	
$n_{12}(E)$	11	#20	3.980	
$n_{13}(E)$	12	#25	4.550	
$n_{14}(E)$	37	#15	2.210	
$n_{15}(E)$	50	#30	3.650	
$n_{16}(E)$	10	#20	5.480	
sp_{10}	22	#15	13.550 *	
$t_{10}(E)$	73	#25	4.330	
$t_{11}(E)$	73	#25	4.890	
$t_{12}(E)$	28	#25	4.170	
$t_{13}(E)$	28	#25	4.730	
$v_{10}(E)$	45	#20	3.000	
$v_{11}(E)$	52	#25	3.000	
$v_{12}(E)$	50	#15	2.550	
$v_{13}(E)$	40	#20	3.180	
$v_{14}(E)$	50	#15	1.060	
$v_{15}(E)$	50	#15	0.790	
$v_{16}(E)$	50	#15	1.800	
$v_{17}(E)$	50	#30	5.370	
$v_{18}(E)$	37	#15	5.370	
$v_{19}(E)$	50	#20	1.840	
$v_{20}(E)$	37	#15	1.670	
v_{21}	528	#35	14.700	
$v_{22}(E)$	8	#15	1.110	
$w_{10}(E)$	45	#20	8.900	
$w_{11}(E)$	45	#25	9.100	
$w_{12}(E)$	30	#20	6.870	
$w_{13}(E)$	30	#25	7.000	

Item	Unit	Quantity
Structure Excavation	m^3	346
Concrete Structures	m^3	297.6
Reinforcement Bars, Epoxy Coated	kg	15,830
Reinforcement Bars	kg	71,050
Bar Splicers	Each	49
Porous Granular Embankment (Special)	m^3	716
Permanent Casing	m	254.1
Drilled Shaft In Soil, 1220 mm	m	298.1

* Length shown is height of spiral.

DESIGNED	JJK
CHECKED	KGN
DRAWN	LK
CHECKED	KGN

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND
EAST ABUTMENT & WINGWALLS
DETAILS & BILL OF MATERIALS
EB I-94 OVER THORN CREEK
F.A.I. 94 SECTION (0203.1 & 0312-708W) R-3
COOK COUNTY
STA. 20+509.000 STRUCTURE NO. 016-2807
DATE JUL 18, 2005
SCALE ---

HNTB

(1) Revised 11/30/2005, PCA

LK\ltr2
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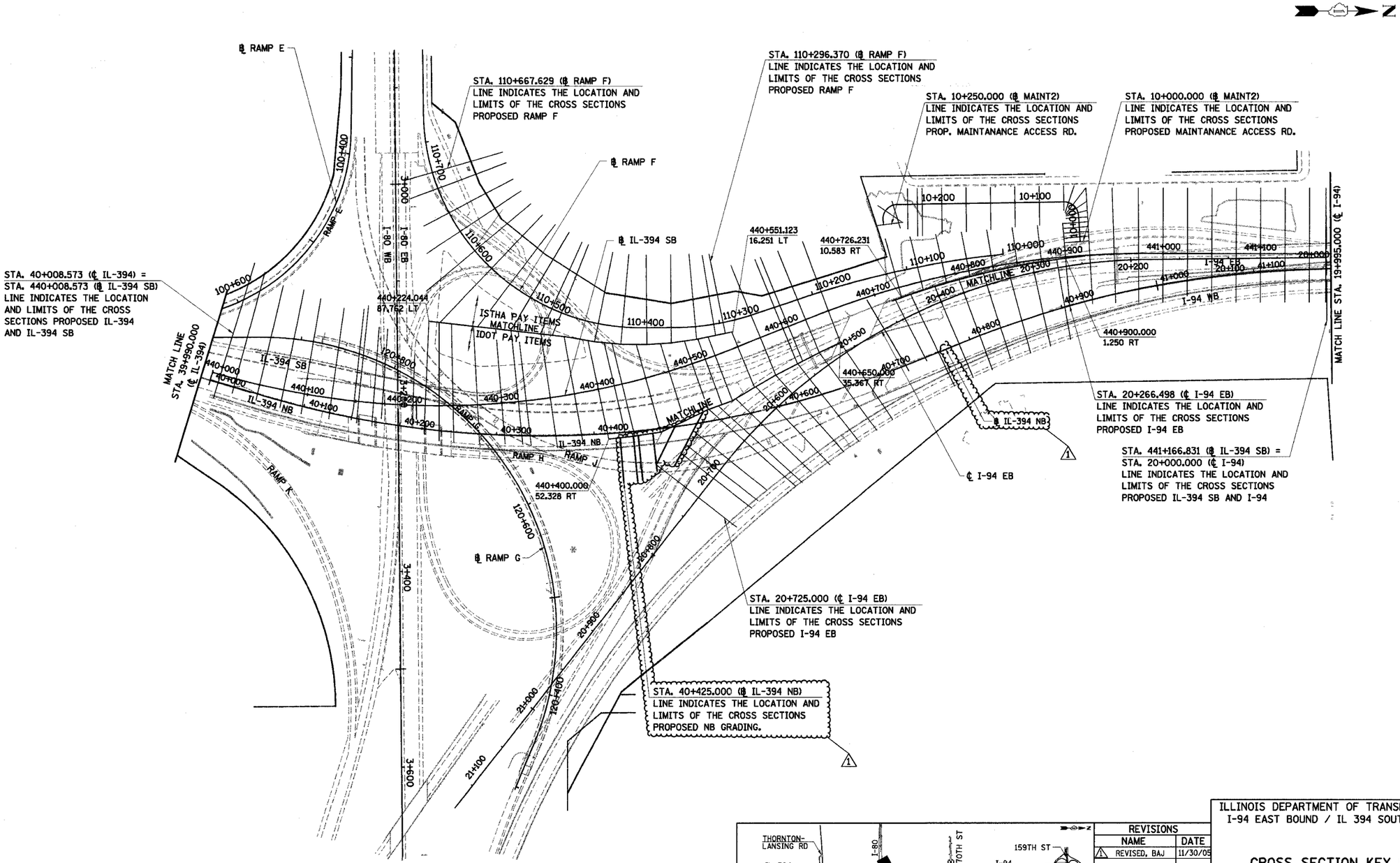
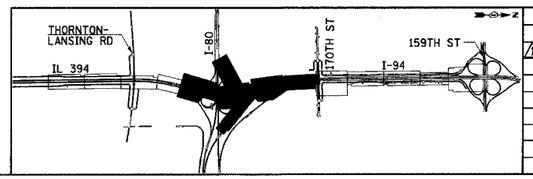
28-NOV-2005 14:47

• (0203.1 & 0312-708W) R-3 CONTRACT NO. 62108

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	870	762
STA.		TO STA.		
FED ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



KM-2



REVISIONS	
NAME	DATE
⚠1 REVISED, BAJ	11/30/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

CROSS SECTION KEY MAP

HORIZ SCALE: 1 : 2000
VERT SCALE: NONE
DATE: JULY 18, 2005
DRAWN BY: BAJ/BJM
CHECKED BY: JES

HNTB

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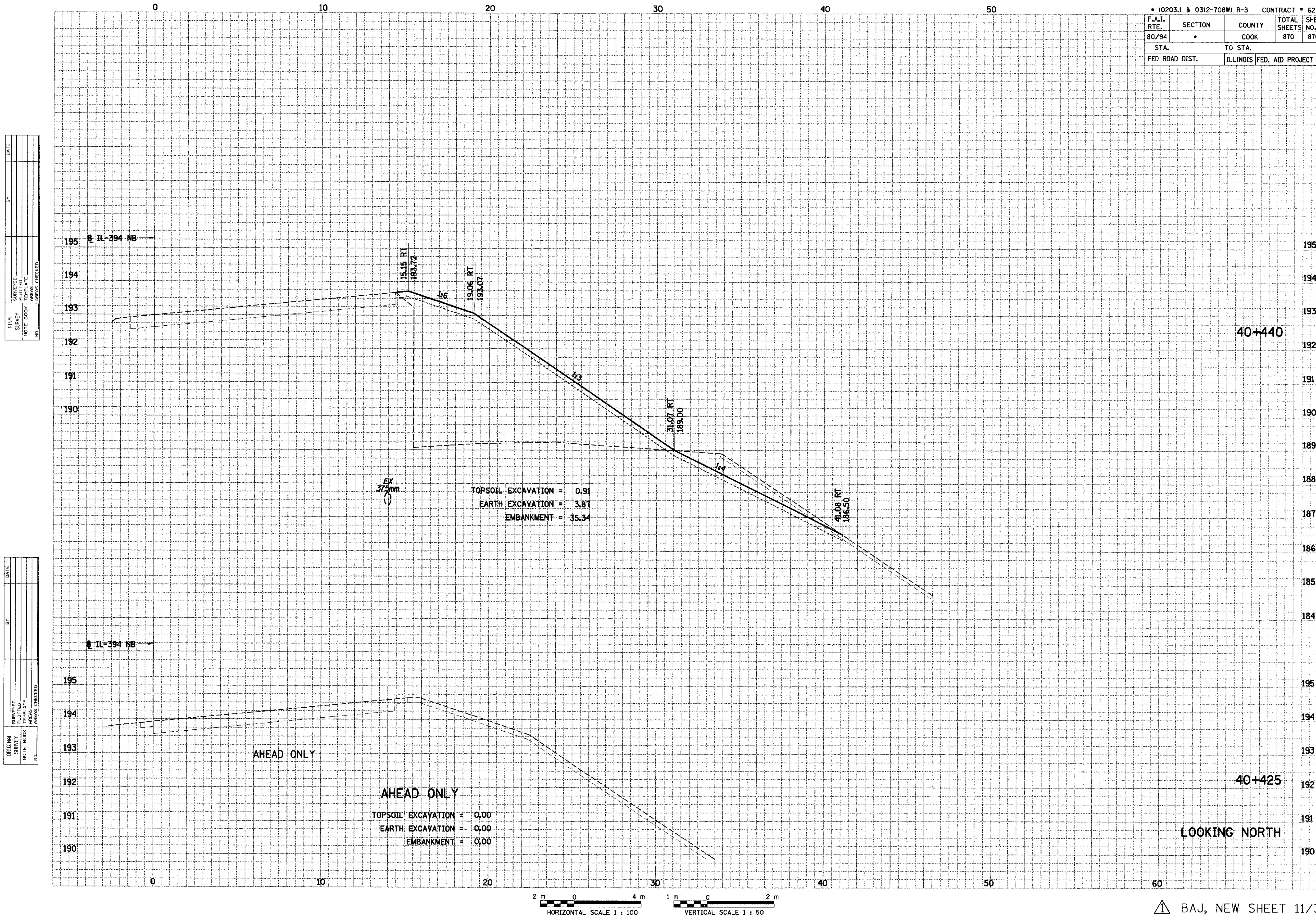
MAMiller 30-NOV-2005 16:13

* (0203.1 & 0312-708W) R-3 CONTRACT * 62108

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	*	COOK	870	870A
STA.		TO STA.		
FED ROAD DIST.		ILLINOIS	FED. AID PROJECT	



⚠ BAJ, NEW SHEET 11/30/0

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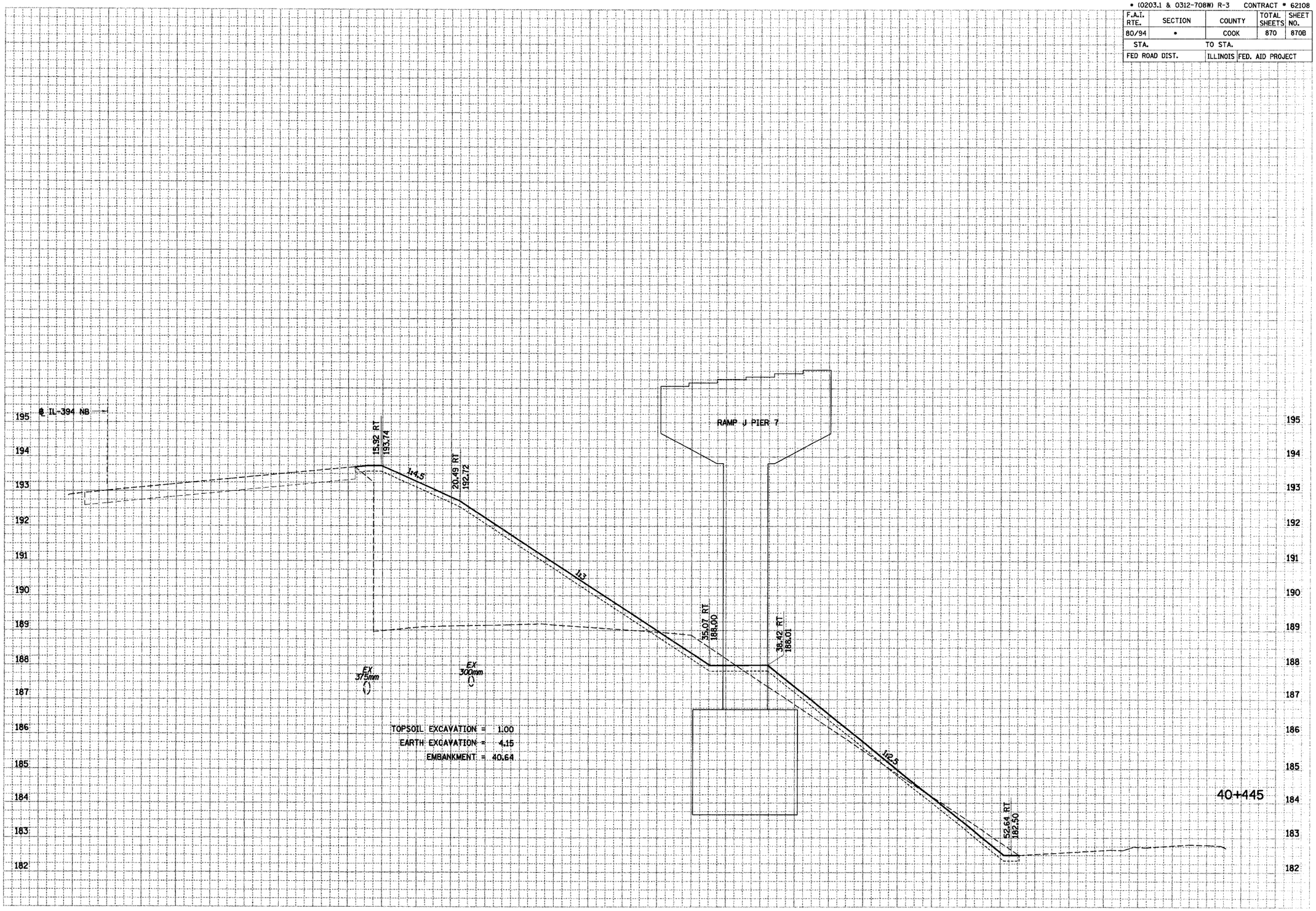
IL-394 NB

• (0203.1 & 0312-708W) R-3 CONTRACT • 62108

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	870	870B
STA.		TO STA.		
FED ROAD DIST.		ILLINOIS	FED. AID PROJECT	

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



2 m 0 4 m
HORIZONTAL SCALE 1 : 100

1 m 0 2 m
VERTICAL SCALE 1 : 50

⚠ BAJ, NEW SHEET 11/30/0

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MAMiller 30-NOV-2005 16:17

IL-394 NB

• (0203.1 & 0312-708W) R-3 CONTRACT • 62108

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	870	870C
STA.		TO STA.		
FED ROAD DIST.		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY NOTE BOOK

NO.	BY	DATE
	SURVEYED	
	PLOTTED	
	TYPICAL SECT. AREAS	
	AREAS CHECKED	

℄ IL-394 NB

SOUTH ABUTMENT
SN 016-2802
SKEWED SECTION

SLOPEWALL REMAINS

STEEL SHEETING TO REMAIN

TIE ROD TO BE PARTIALLY REMOVED, SEE SHEET NO. 143 FOR DETAILS

TOPSOIL EXCAVATION = 3.80
EARTH EXCAVATION = 0.15
EMBANKMENT = 47.53

1:2.5 MEASURED ALONG SKEW
1:2 NORMAL

27.41 RT
187.94

STEEL SHEETING TO BE PARTIALLY REMOVED, SEE SHEET NO. 143 FOR DETAILS

1:5 MEASURED ALONG SKEW
1:2 NORMAL

52.16 RT
183.03

40+483
SOUTH ABUTMENT
SKEWED SECTION

℄ IL-394 NB

15.35 RT
193.70

1:2.5

TOPSOIL EXCAVATION = 1.00
EARTH EXCAVATION = 2.70
EMBANKMENT = 28.56

42.51 RT
182.83

40+460

2 m 0 4 m
HORIZONTAL SCALE 1 : 100

1 m 0 2 m
VERTICAL SCALE 1 : 50

⚠ BAJ, NEW SHEET 11/30/0

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MAMiller 30-NOV-2005 16:17

IL-394 NB

• (0203.1 & 0312-708W) R-3 CONTRACT • 62108

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	•	COOK	870	870D
STA.		TO STA.		
FED ROAD DIST.		ILLINOIS	FED. AID PROJECT	

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

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

℄ IL-394 NB

178
179
180
181

TOE OF SLOPEWALL
SN 016-2802
BACK ONLY

40+506

BACK ONLY

TOPSOIL EXCAVATION = 0.00
EARTH EXCAVATION = 0.00
EMBANKMENT = 0.00

2 m 0 4 m
HORIZONTAL SCALE 1 : 100

1 m 0 2 m
VERTICAL SCALE 1 : 50

1 BAJ, NEW SHEET 11/30/0

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MAMiller 30-NOV-2005 16:18

IL-394 NB