

CONTRACT NO. 66411				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	34 BR-1	IROQUOIS	37	1

P93-038-99
D-93-014-04

INDEX OF SHEETS

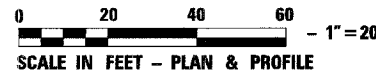
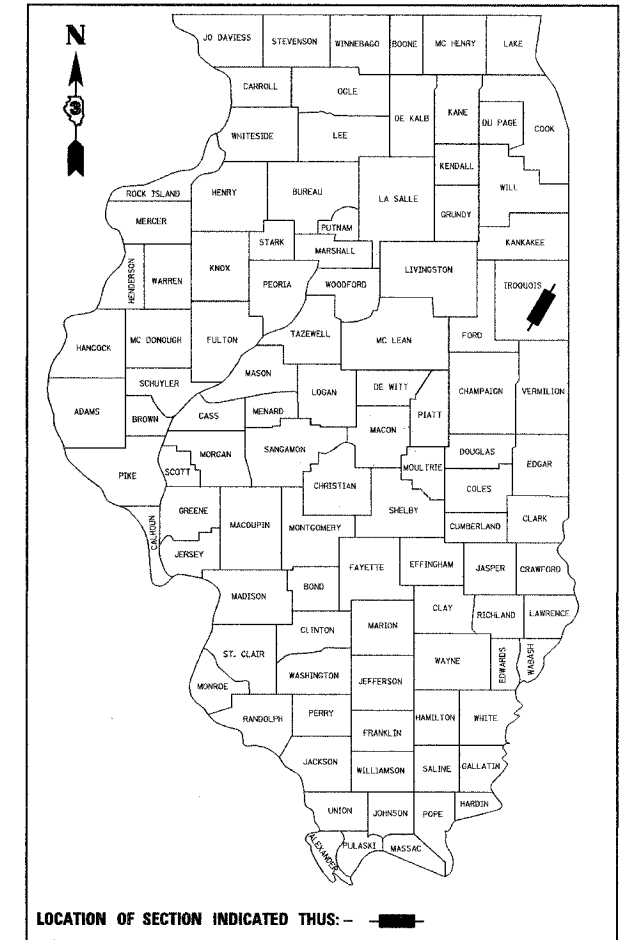
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ROADWAY PLANS	
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PLANS FOR PROPOSED FEDERAL AID HIGHWAY

F.A.S. ROUTE 338 (US 45)
SECTION 34 BR-1
PROJECT RS-0338(104)
BRIDGE REPLACEMENT
IROQUOIS COUNTY

C-93-009-04

BRIDGE REPLACEMENT AT LOUIS CREEK
1.7 MILES NORTH OF BUCKLEY



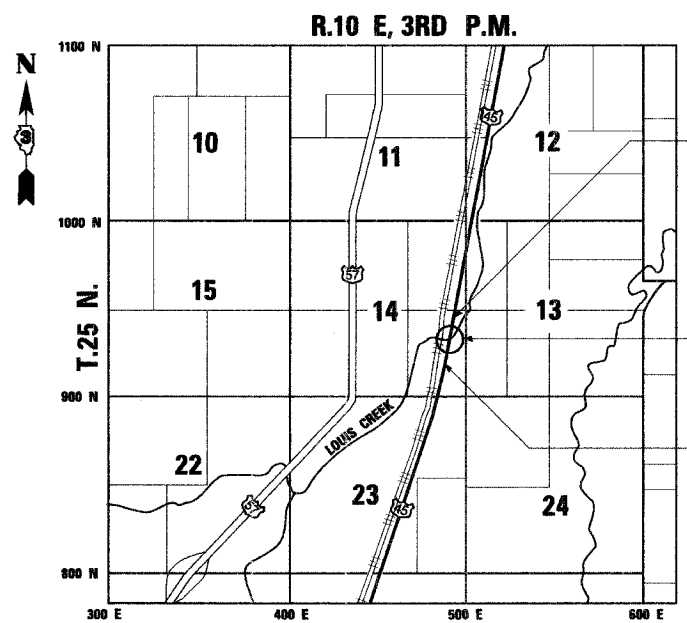
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

MICROFILMED _____
REEL NUMBER _____
AWARDED _____
RESIDENT ENGINEER _____
AS BUILT CHANGES WERE MADE
ON THE FOLLOWING SHEETS _____

JULIE 1-800-892-0123

DISTRICT 3 NO. (815) 434-6131
PROJECT ENGINEER: JOE KANNEL
UNIT CHIEF: PAT BRABOY
TOWNSHIP: ARTESIA
CONTRACT NO. 66411

PLANS PREPARED BY: SOODAN & ASSOCIATES, INC.
100 NORTH LASALLE ST., SUITE 1800
CHICAGO, ILLINOIS 60602



LOCATION MAP



GROSS LENGTH = 820 FT. = 0.16 MI.
NET LENGTH = 820 FT. = 0.16 MI.

IMPROVEMENTS BEGIN
STA. 1894 + 00.00

EXIST. STRUCTURE NO. 038-0043
PROP. STRUCTURE STA. 1898 + 10.00
THREE SPAN RC SLAB BRIDGE
102'-0" BK TO BK. ABUTMENTS
STR. NO. 038-0212 OVER LOUIS CREEK

IMPROVEMENTS END
STA. 1902 + 20.20

FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR (NON-URBAN)
DESIGN SPEED : 55 MPH
POSTED SPEED : 55 MPH
ADT : 1400 (2007)
PV : 66%
SU : 14%
MU : 20%

LICENSED PROFESSIONAL ENGINEER
DEVSHI K. ROY
062-047951
STATE OF ILLINOIS
MY license Expires 11-30-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED October 26, 2006
Eric E. Harms
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
February 2, 2007
Eric E. Harms
ENGINEER OF DESIGN AND ENVIRONMENT
February 2, 2007
Milton R. See, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

STANDARD NO.

DESCRIPTION

GENERAL NOTES

000001-04	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-01	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-03	TEMPORARY EROSION CONTROL SYSTEMS
420001-06	PAVEMENT JOINTS
420401-05	BRIDGE APPROACH PAVEMENT
442201-02	CLASS C AND D PATCHES
609006-03	BRIDGE APPROACH PAVEMENT (DRAIN DETAIL)
630001-07	STEEL PLATE BEAM GUARDRAIL
630201-04	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-04	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-06	TRAFFIC BARRIER TERMINAL, TYPE 6
635011-01	REFLECTOR MARKER AND MOUNTING DETAILS
701001-01	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 4.5m (15') AWAY
701006-02	OFF-RD OPERATIONS 2L, 2W, 4.5m (15') TO 600 MM (24") FROM PAVEMENT EDGE
701011-01	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701206-01	LANE CLOSURE, 2L, 2W NIGHT ONLY FOR SPEEDS ≥ 45 MPH
701301-02	LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
701306-01	LANE CLOSURE 2L, 2W, SLOW MOVING OPERATIONS-DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-02	LANE CLOSURE 2L, 2W, MOVING OPERATIONS-DAY ONLY
702001-06	TRAFFIC CONTROL DEVICES
720001	SIGN PANEL MOUNTING DETAILS
720006-01	SIGN PANEL ERECTION DETAILS
780001-01	TYPICAL PAVEMENT MARKINGS
781001-02	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

- THE THICKNESS OF BITUMINOUS MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
- EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.
- AGGREGATE (PRIME COAT): FA 20 MAY BE USED IN ADDITION TO THE GRADATIONS LISTED IN THE 3RD PARAGRAPH OF ARTICLE 1003.03(g) OF THE STANDARD SPECIFICATIONS.
- THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS BITUMINOUS MIXTURES.
- FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SANDBAGS PER BARRICADE.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
- ALL DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS SHALL BE FERTILIZED AND SEEDED. SEEDING SHALL BE CLASS 2A IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND THE APPLICABLE ARTICLES OF SECTION 250 OF THE STANDARD SPECIFICATIONS EXCEPT ON A MESIC PRAIRIE NORTH OF LOUIS CREEK BETWEEN THE RAILROAD AND HIGHWAY. THIS AREA DISTURBED BY CONSTRUCTION SHALL BE SEEDED WITH A NATIVE MIX (CLASS 4 AND CLASS 5A). SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.
- ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS/HER OPERATIONS.
- THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO THE ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED ON THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05 TONS/CU YD
BITUMINOUS MATERIALS PRIME COAT	0.375 GAL/SQ YD
ALL BITUMINOUS CONCRETE	112 LBS/SQ YD/INCH
SHORT TERM PAVEMENT MARKING	10 FT/100 FT OF APPLICATION
- ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPlicing OF ELECTRIC CABLE SHALL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.
- THE COST OF MAKING ANY SEWER CONNECTIONS TO AN EXISTING DRAINAGE STRUCTURE OR PIPE SHALL BE INCLUDED IN THE COST OF THE NEW SEWER.
- MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT IS VERIZON.
- THE EXISTING SHOULDERS ARE LOW. IN THE EVENT THAT CONSTRUCTION OPERATIONS RESULT IN A DROP OFF GREATER THAN 3" BETWEEN THE EDGE OF PAVEMENT OR EDGE OF SHOULDER WITHIN 3' OF THE EDGE OF PAVEMENT AND THE EARTH OR AGGREGATE SHOULDERS, THEN THE DROP OFF SHALL BE PROTECTED ACCORDING TO ARTICLE 701.04(B)(1) OF THE STANDARD SPECIFICATIONS. THIS WORK WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES FOR TRAFFIC CONTROL.

- ALL SAWCUTTING OF EXISTING PAVEMENT SHALL BE CONSIDERED INCLUDED IN THE PAY ITEMS INVOLVED. THE MINIMUM SAW DEPTH IN THE PAVEMENT SHALL BE 1/2" UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 1-800-892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED.
- SKIP-DASH LINES FOR PAINT PAVEMENT MARKING AND TEMPORARY PAVEMENT MARKING SHALL BE 6" WIDE.
- EXCELSIOR BLANKET SHALL BE USED AT ALL EROSION CONTROL BLANKET LOCATIONS.
- AN ADDITIONAL 100 TONS OF BITUMINOUS SURFACE COURSE IS INCLUDED IN THE QUANTITIES FOR REPAIRING THE CITY'S ROADS AFTER THE DETOUR ARE COMPLETE. A QUANTITY FOR CLASS D PATCHES IS ALSO INCLUDED. SOME OR ALL OF THESE QUANTITIES MAY BE DELETED FROM THE CONTRACT AS DIRECTED BY THE ENGINEER.
- SHORT TERM PAVEMENT MARKING SHALL BE USED TO OUTLINE EXIT AND ENTRANCE RAMPS FOR THE PRIME COAT APPLICATION AND EACH RESURFACING LIFT.
- CONTRACTOR SHALL NOT PARK THEIR VEHICLES OR STORE THEIR EQUIPMENTS OR MATERIALS ALONG THE PRAIRIE REMNANT ON NORTH OF LOUIS CREEK BETWEEN THE ILLINOIS CENTRAL RAILROAD AND US ROUTE 45.

COMMITMENTS:

- ENVIRONMENTAL COORDINATION.
- STRUCTURAL STATUS AND VERTICLE CLEARANCE FORM.
- NOTIFY EMERGENCY SERVICES PRIOR TO ROAD CLOSURE.
- SURVEY ROADWAY WITH COUNTY ENGINEER PRIOR TO CLOSURE.
- NO PARKING OF VEHICLES OR EQUIPMENT OR MATERIALS PLACED NORTH OF LOUIS CREEK ON THE WEST SIDE.
- STORM WATER POLLUTION PREVENTION PLAN.

CONTRACT NO. 66411				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	34 BR-1	IROQUOIS	37	2
STA.		TO STA.		
FED. ROAD DIST. NO. 3		ILLINOIS	FED. AID PROJECT	
P93-038-99				
D-93-014-04				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

REVIEWED BY: Rid Powell
DISTRICT STUDIES & PLANS ENGINEER

DATE: 10-26-06

EXAMINED BY: Harbert K. Long
DISTRICT CONSTRUCTION ENGINEER

Matt Jewell
DISTRICT MATERIALS ENGINEER

Rance A. Lueker
DISTRICT OPERATIONS ENGINEER

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BRIDGE REPLACEMENT OVER LOUIS CREEK
1.7 MILES NORTH OF BUCKLEY

GENERAL NOTES AND
STATE STANDARDS

SCALE: N.T.S. DRAWN BY: J.S.
DATE: OCTOBER, 2006 CHECKED BY: DR

SOODAN & ASSOCIATES INC.
Architects, Engineers & Construction Consultants

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	34 BR-1	IRROUOIS	37	3
STA.		TO STA.		
FED. ROAD DIST. NO. 3		ILLINOIS FED. AID PROJECT		
P93-038-99				
D-93-014-04				

SUMMARY OF QUANTITIES

CODE NO.	ITEMS	UNIT	TOTAL QUANTITIES	80% FED CONSTRUCTION TYPE 20% STATE	
				ROADWAY	BRIDGE
				1000-2A	X020-2A
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	210	210	
20101000	TEMPORARY FENCE	FOOT	470	470	
20300100	CHANNEL EXCAVATION	CU YD	1446	1446	
20400800	FURNISHED EXCAVATION	CU YD	861	861	
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	66		66
21101505	TOP SOIL EXCAVATION AND PLACEMENT	CU YD	300	300	
25000210	SEEDING, CLASS 2A	ACRE	0.5	0.5	
25000310	SEEDING, CLASS 4	ACRE	0.3	0.3	
25000322	SEEDING, CLASS 5A	ACRE	0.3	0.3	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	97	97	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	97	97	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	97	97	
25100630	EROSION CONTROL BLANKET	SQ YD	4804	4804	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	333	333	
28000300	TEMPORARY DITCH CHECKS	EACH	2	2	
28000400	PERIMETER EROSION BARRIER	FOOT	1961	1961	
28000500	INLET AND PIPE PROTECTION	EACH	4	4	
28100105	STONE RIPRAP, CLASS A3	SQ YD	15	15	
28100107	STONE RIPRAP, CLASS A4	SQ YD	1617	566	1051
28200200	FILTER FABRIC	SQ YD	1628	577	1051
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	648	648	
40600300	AGGREGATE (PRIME COAT)	TON	2	2	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	260	260	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	245	245	
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	214	214	
42001300	PROTECTIVE COAT	SQ YD	257	257	
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	43	43	
44000100	PAVEMENT REMOVAL	SQ YD	284	284	
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	787	787	
44000700	APPROACH SLAB REMOVAL	SQ YD	232	232	
44002212	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3"	SQ YD	273	273	
44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD	273	273	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	40	40	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	452	452	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50200100	STRUCTURE EXCAVATION	CU YD	86		86
50300100	FLOOR DRAINS	EACH	10		10
50300225	CONCRETE STRUCTURES	CU YD	108.1		108.1
50300255	CONCRETE SUPERSTRUCTURE	CY YD	239.0		239.0
50300260	BRIDGE DECK GROOVING	SQ YD	348		348
50300300	PROTECTIVE COAT	SQ YD	444		444
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	57080		57080

SUMMARY OF QUANTITIES

CODE NO.	ITEMS	UNIT	TOTAL QUANTITIES	80% FED CONSTRUCTION TYPE 20% STATE	
				ROADWAY	BRIDGE
				1000-2A	X020-2A
51201600	FURNISHING STEEL PILES HP12X53	FOOT	1869		1869
51202305	DRIVING PILES	FOOT	1869		1869
51203600	TEST PILE STEEL HP12X53	EACH	4		4
51500100	NAME PLATES	EACH	1		1
54213447	END SECTIONS 12"	EACH	4	4	
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	31		31
60100945	PIPE DRAINS 12"	FOOT	83	83	
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	125		125
60900140	TYPE B INLET BOX, STANDARD 609006	EACH	4	4	
60900515	CONCRETE THRUST BLOCKS	EACH	4	4	
*63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	750	750	
*63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
*63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4	4	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
70100455	TRAFFIC CONTROL AND PROTECTION, STANDARD 701206	L SUM	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	195	195	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	486	486	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	499	499	
*78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1846	1846	
*78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	10	10	
*78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	4	4	
*78200410	GUARDRAIL MARKERS, TYPE A	EACH	18	18	
*78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	14	14	
X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION- LOCATION 1	EACH	1		1
X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION- LOCATION 2	EACH	1		1
X7011005	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	L SUM	1	1	
Z0005215	BITUMINOUS STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL	SQ YD	298	298	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	

* DENOTES SPECIALTY ITEM

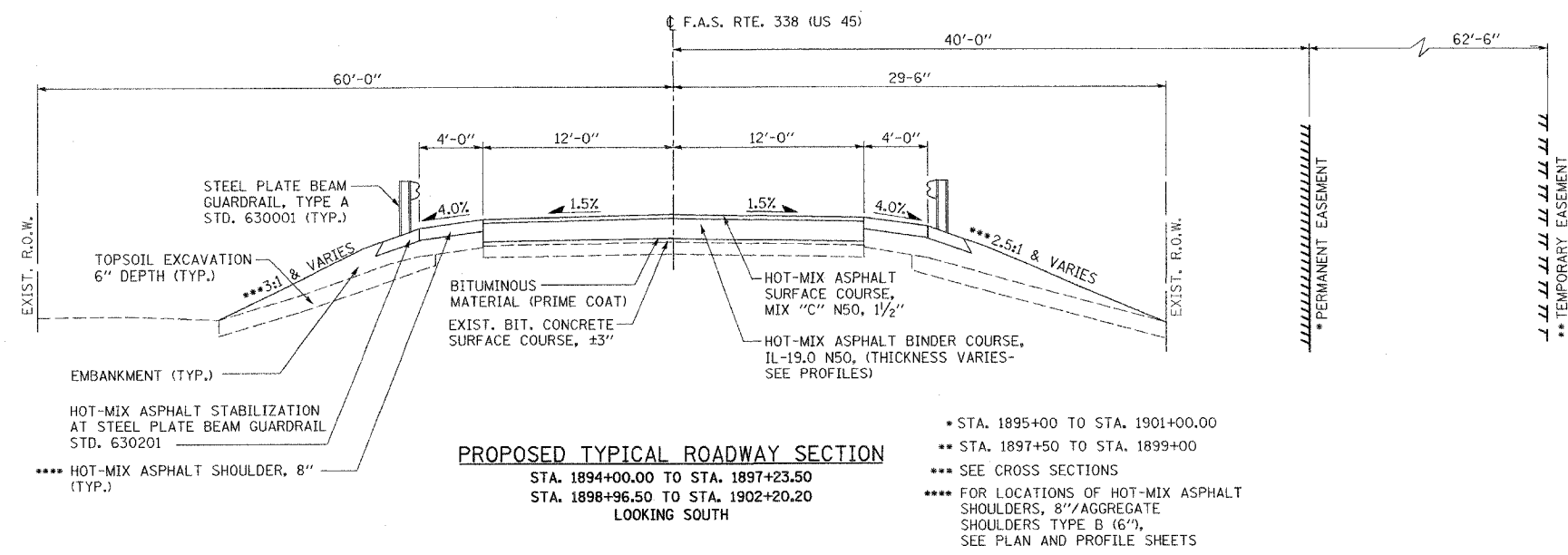
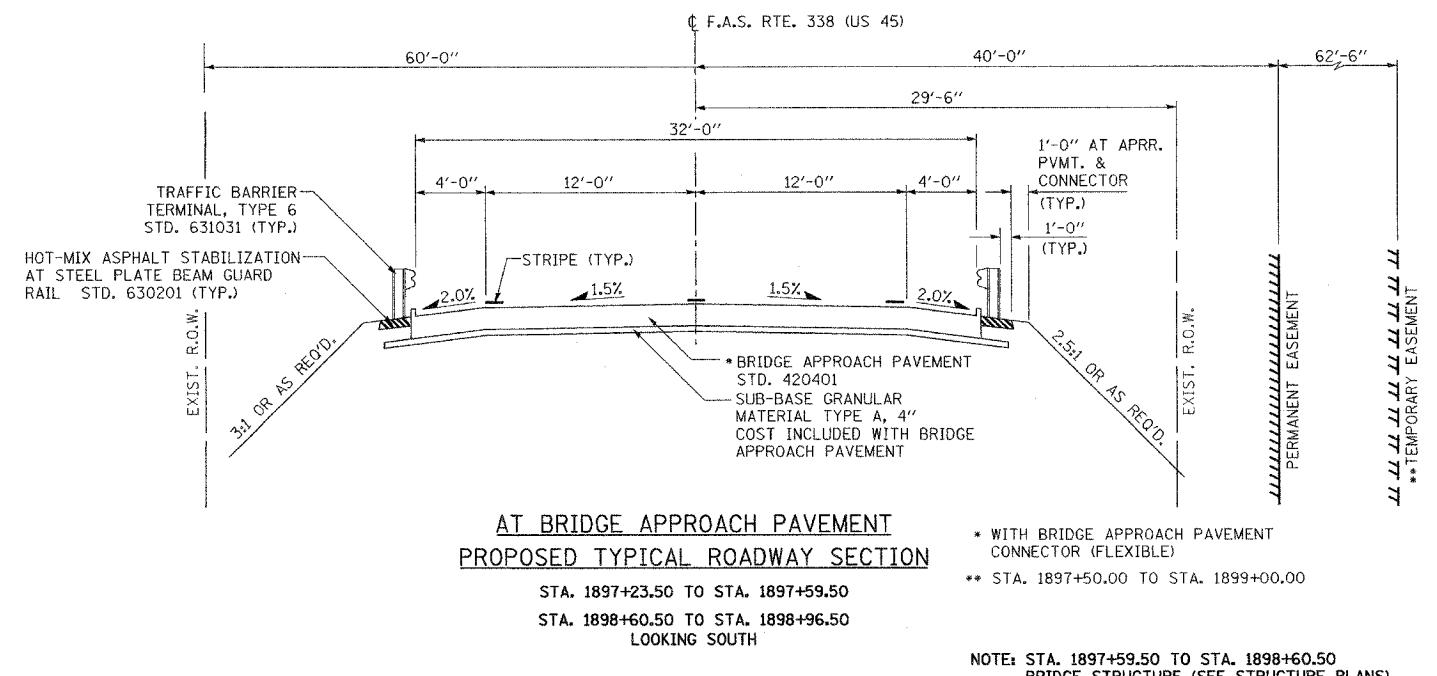
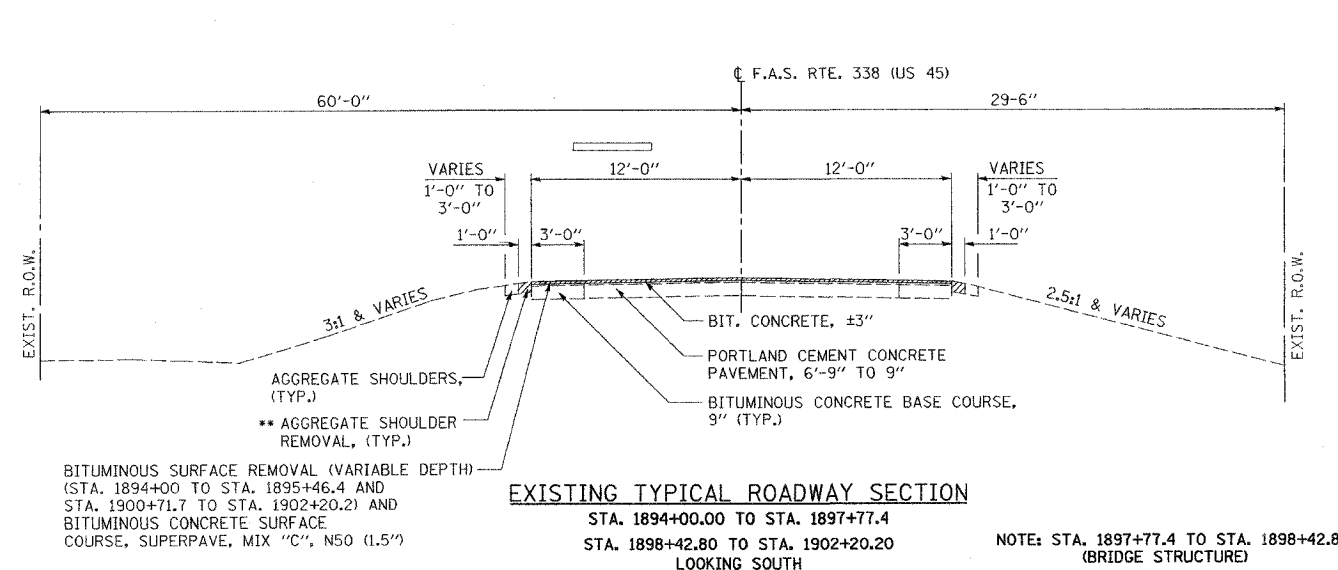
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BRIDGE REPLACEMENT OVER LOUIS CREEK
1.7 MILES NORTH OF BUCKLEY

SUMMARY OF QUANTITIES

SCALE: N.T.S. DRAWN BY J.S.
DATE OCTOBER, 2006 CHECKED BY DR

SOODAN & ASSOCIATES INC.
Architects, Engineers & Construction Consultants



	HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N50,	HOT-MIX ASPHALT SURFACE COURSE, MIX "C" N50,
PG GRADE	PG 64-22	PG 64-22
MAX % RAP ALLOWABLE ***	25%	15%
DESIGN AIR VOIDS	4% @ N50	4% @ N50
MIXTURE COMPOSITION	IL 19.0	IL 12.5 OR IL 9.5
FRICTION AGGREGATE		MIXTURE C
PLANT CONTROL LIMITS	CLASS I	CLASS I
DENSITY TEST METHOD	CORES/NUCLEAR	CORES/NUCLEAR

*** IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 BRIDGE REPLACEMENT OVER LOUIS CREEK
 1.7 MILES NORTH OF BUCKLEY

TYPICAL SECTIONS

SCALE: N.T.S. DRAWN BY J.S.
 DATE OCTOBER, 2006 CHECKED BY DR

SOODAN & ASSOCIATES INC.
 Architects, Engineers & Construction Consultants

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	34 BR-1	IROQUOIS	37	5

STA.	TO STA.
FED. ROAD DIST. NO. 3 ILLINOIS	FED. AID PROJECT

P93-038-99
D-93-014-04

STATION	OFFSET	SIZE (UNIT)
1898+76.00	47' RIGHT	13.0
1898+72.00	44' RIGHT	13.0
1898+65.00	42' RIGHT	6.0
1898+27.00	88' RIGHT	12.2
1898+27.00	83' RIGHT	10.7
1898+27.00	76' RIGHT	7.6
1898+23.00	45' RIGHT	6.5
1898+35.00	42' RIGHT	12.6
1898+35.00	32' RIGHT	7.3
1898+23.00	33' RIGHT	6.0
1898+20.00	42' RIGHT	8.4
1898+17.00	76' RIGHT	8.0
1897+90.00	47' RIGHT	8.0
1897+91.00	62' RIGHT	6.0
1897+91.00	62' RIGHT	6.0
1897+91.00	62' RIGHT	6.0
1897+80.00	42' RIGHT	6.0
1897+80.00	53' RIGHT	6.0
1897+80.00	55' RIGHT	6.0
1897+80.00	64' RIGHT	6.0
1897+81.00	91' RIGHT	7.3
1897+85.00	92' RIGHT	6.5
1897+70.00	36' RIGHT	8.0
1897+73.00	42' RIGHT	6.0
1897+65.00	33' RIGHT	8.0
1897+64.00	41' RIGHT	7.0
1897+61.00	32' RIGHT	6.0
TOTAL	=	210.1

LOCATION	PERIMETER EROSION BARRIER	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING (3 APPLICATIONS)	INLET & PIPE PROTECTION	TEMPORARY FENCE	SEEDING, CLASS 5A	SEEDING, CLASS 4	SEEDING, CLASS 2A	TEMPORARY DITCH CHECKS	STONE RIPRAP, CLASS A4
	FOOT	SQ YD	POUND	EACH	FOOT	ACRE	ACRE	ACRE	EACH	SQ.YD.
NORTH OF BRIDGE	1004.0	2443.0	181.0	2.0	470.0			0.16		
SOUTH OF BRIDGE	957.0	2361.0	152.0	2.0				0.32		
AT MESIC PRAIRIE (N. OF LOUIS CREEK) CHANNEL						0.30	0.30		2.0	565.90
TOTALS =	1961.0	4804.0	333.0	4.0	470.0	0.30	0.30	0.48	2.0	1616.90* ^a

LOCATION	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	SPBGR TYPE A	TRAFFIC BARRIER TERMINAL, TYPE 6
	EACH	FOOT	EACH
STRUCTURE NO. 038-0212 - NORTHEAST	1	125.0	1
STRUCTURE NO. 038-0212 - NORTHWEST	1	250.0	1
STRUCTURE NO. 038-0212 - SOUTHEAST	1	250.0	1
STRUCTURE NO. 038-0212 - SOUHTWEST	1	125.0	1
TOTALS =	4	750.0	4

LOCATION	BRIDGE APPROACH PAVEMENT	PROTECTIVE COAT
	SQ YD	SQ YD
STRUCTURE NO. 038-0212 NORTH APPROACH	107.0	107.0
STRUCTURE NO. 038-0212 SOUTH APPROACH	107.0	107.0
BRIDGE APPROACH CONNECTORS		43.0
TOTALS =	214.0	257.0

*^a (FOR CHANNEL 565.90 SQ YD+ FOR STRUCTURE 1051.00 SQ YD = 1616.90 SQ YD)

LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	INCIDENTAL EXCAVATION MATERIAL	INCIDENTAL EXC. MATERIAL ADJUSTED FOR SHRINKAGE	EMBANKMENT (NOT A PAY ITEM)	EARTHWORK BALANCE WASTE(+) OR SHORTGAE(-)	TOPSOIL EXCAVATION AND PLACEMENT
	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
N OF BRIDGE CUTS & FILLS	17.0*	12.8			328.3	-328.3	+129.1
S OF BRIDGE CUTS & FILLS	10.8*	8.1			476.0	-476.0	+170.2
CHANNEL EXCAVATION	1418.0*	1063.5			121.0	-121.0	
STRUCTURE EXCAVATION	86.0	64.5				+64.5	
TOTALS =	1531.8	1148.9			925.3	-860.8	+299.3

NOTE: SHRINKAGE FACTOR = 25% FOR EARTH EXCAVATION AND STRUCTURE EXCAVATION
* (17.0+10.8+1418.0 = 1445.8 CU YD) QUANTITY WILL BE PAID AS CHANNEL EXCAVATION

LOCATION	PAVEMENT REMOVAL
	SQ YD
STA. 1897+29.50 TO BK. EXIST. N. ABUT.	142.0
BK. EXIST. S. ABUT. TO STA. 1898+90.50	142.0
TOTALS =	284.0

LOCATION	TON
STRUCTURE NO. 038-0212 - NORTH	20.0
STRUCTURE NO. 038-0212 - SOUTH	20.0
TOTALS =	40.0

LOCATION	HOT-MIX ASPHALT SURFACE COURSE, MIX "C" N50,	CLASS D PATCHES, TYPE II, 12"
	TON	SQ YD
AS DIRECTED BY THE ENGINEER	100.0	100.0
TOTALS =	100.0* ^c	273.0* ^b

*^b (100.0 SQ YD FOR DETOUR ROAD +173.0 SQ. YD. FOR ROADWAY RESURFACE AREA = 273.0)

LOCATION	HOT-MIX ASPHALT SURFACE COURSE, MIX "C" N50,	HOT-MIX ASPHALT BINDER COURSE, IL-19.0 N50	BITUMINOUS MATERIALS (PRIME COAT)	HOT-MIX ASPHALT SHOULDERS 8"
	TON	TON	GALLON	SO YD
STA. 1894+00 TO STA. 1897+23.50	72.5	119.0	324.0	226.0
STA. 1898+96.50 TO STA. 1902+20.20	72.5	141.0	324.0	226.0
TOTALS =	245.0* ^c	260.0	648.0	452.0

*^c (72.5 TON+72.5 TON+100 TON FOR DETOUR RD. = 245.0 TON)

LOCATION	PAINT PAVEMENT MARKING - LINE 4"
	FOOT
NORTH OF BRIDGE	728.0
SOUTH OF BRIDGE	728.0
BRIDGE & APPROACH SLABS	390.0
TOTALS =	1846.0

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BRIDGE REPLACEMENT OVER LOUIS CREEK
1.7 MILES NORTH OF BUCKLEY

SCHEDULE OF QUANTITIES

SCALE: N.T.S. DRAWN BY J.S.
DATE OCTOBER, 2006 CHECKED BY DR

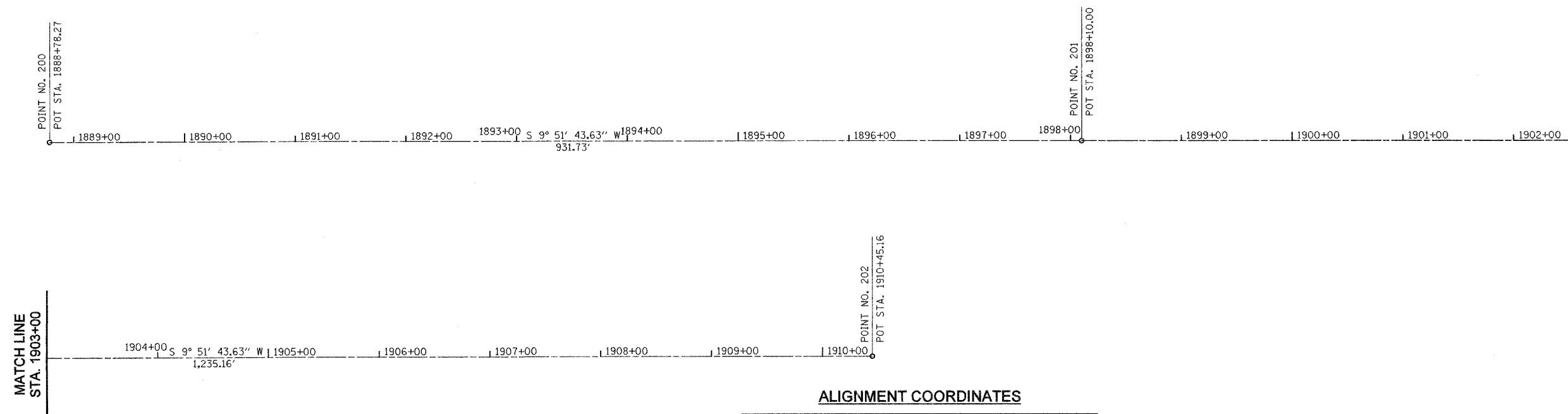
SOODAN & ASSOCIATES INC.
Architects, Engineers & Construction Consultants

CONTRACT NO. 66411

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	34 BR-1	IROQUOIS	37	6
STA. 1888+78.27 TO STA. 1910+45.16				
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				
P93-038-99				
D-93-014-04				



MATCH LINE
STA. 1903+00

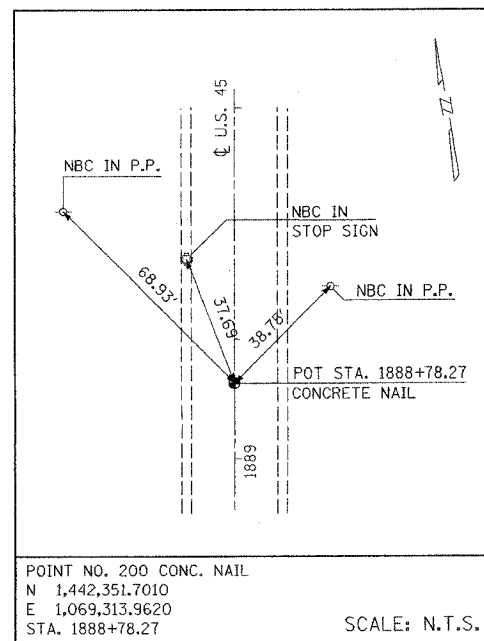


ALIGNMENT COORDINATES

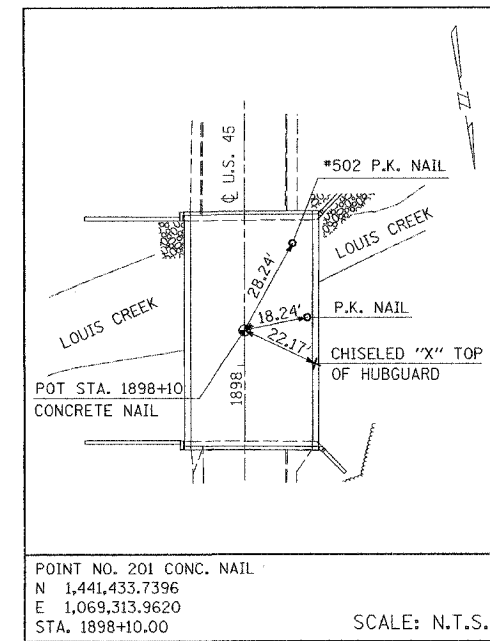
POINT NO.	STATION (FEET)	NORTHING (FEET)	EASTING (FEET)
POINT 200	STA. 1888+78.27	1,442,351.7010	1,069,313.9620
POINT 201	STA. 1898+10.00	1,441,433.7396	1,069,154.3774
POINT 202	STA. 1910+45.16	1,440,216.8320	1,068,942.8220

BENCH MARKS:

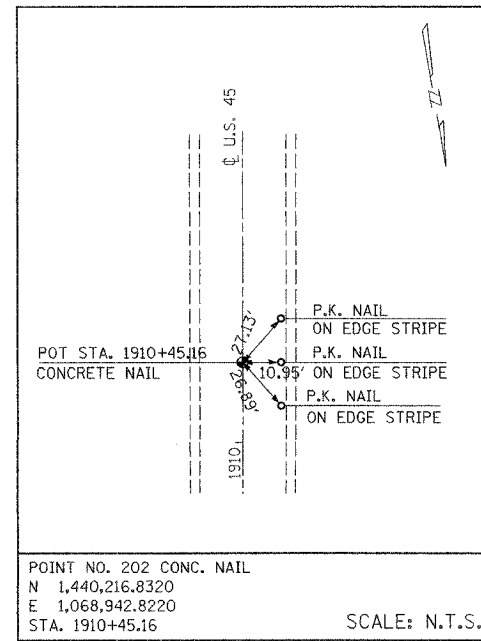
- B.M. #1. RAILROAD SPIKE POWER POLE
STA. 1910+50.00, 25.00' RT.
ELEV. =677.333
- B.M. #2. CHISELED "□" SW CORNER OF SW RET. WALL
STA. 1898+42.14, 18.7' LT.
ELEV. =676.306



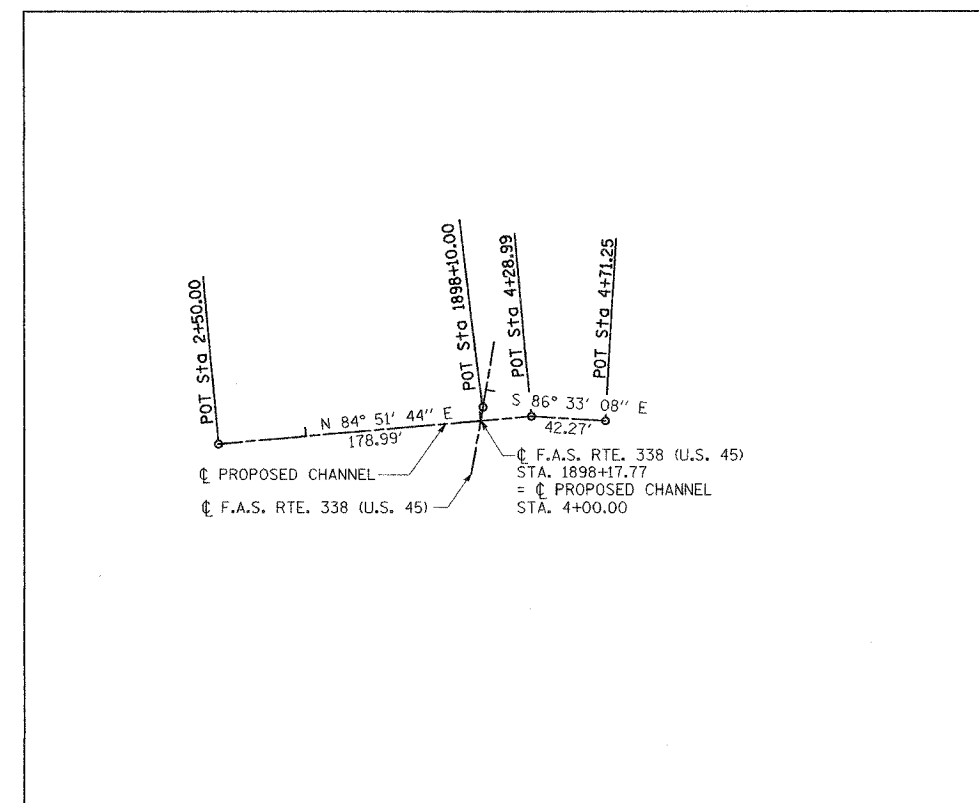
POINT NO. 200 CONC. NAIL
N 1,442,351.7010
E 1,069,313.9620
STA. 1888+78.27
SCALE: N.T.S.



POINT NO. 201 CONC. NAIL
N 1,441,433.7396
E 1,069,313.9620
STA. 1898+10.00
SCALE: N.T.S.



POINT NO. 202 CONC. NAIL
N 1,440,216.8320
E 1,068,942.8220
STA. 1910+45.16
SCALE: N.T.S.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BRIDGE REPLACEMENT OVER LOUIS CREEK
1.7 MILES NORTH OF BUCKLEY

ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1"=50'
DATE: OCTOBER, 2006

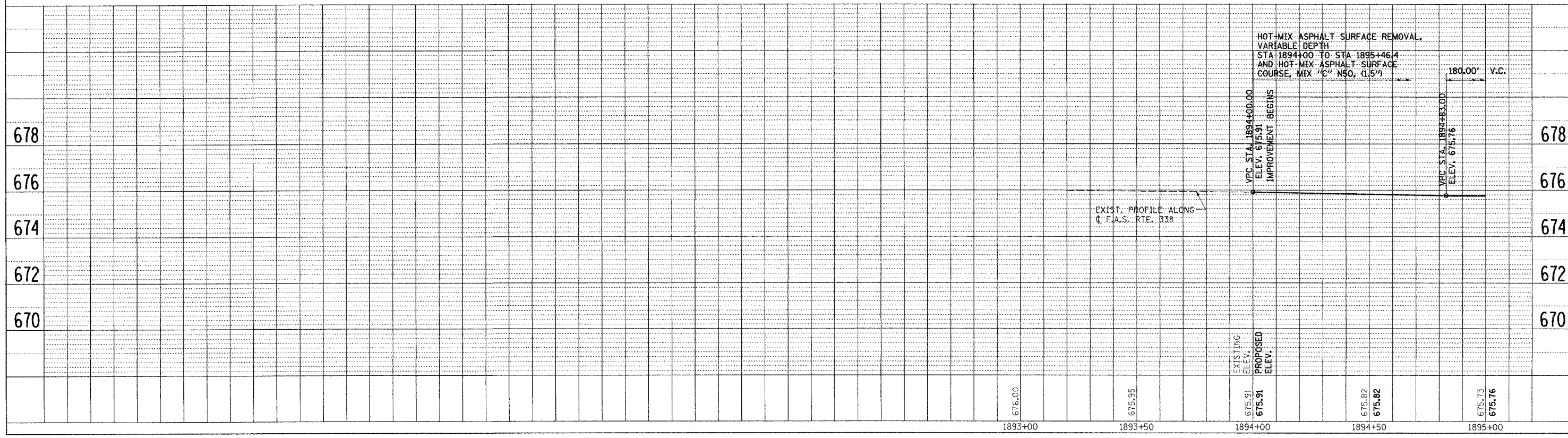
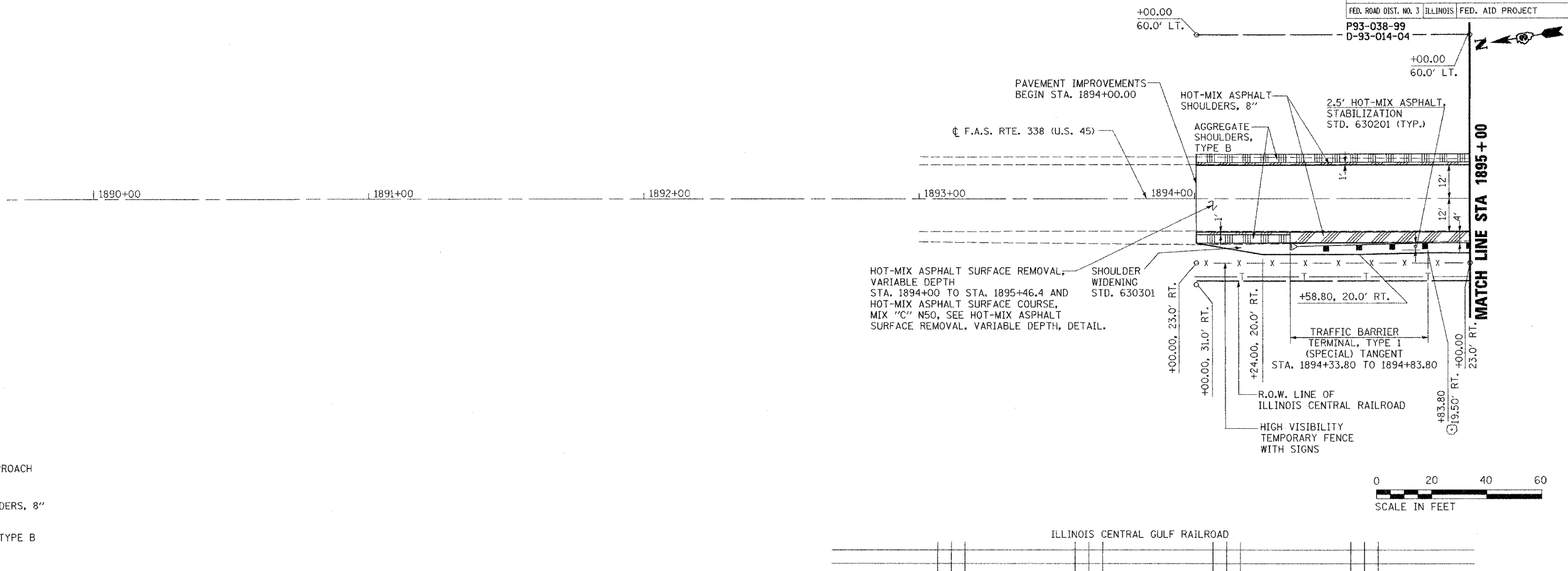
DRAWN BY J.S.
CHECKED BY DR

CONTRACT NO. 66411				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	34 BR-1	IRROUOIS	37	7
STA. 1894+50.00 TO STA. 1895+00				
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				

P93-038-99
D-93-014-04

PLAN	SUBMITTED	DATE
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	

PROFILE	SURVEYED	DATE
NO.	BY	
NO.	BY	
NO.	BY	
NO.	BY	

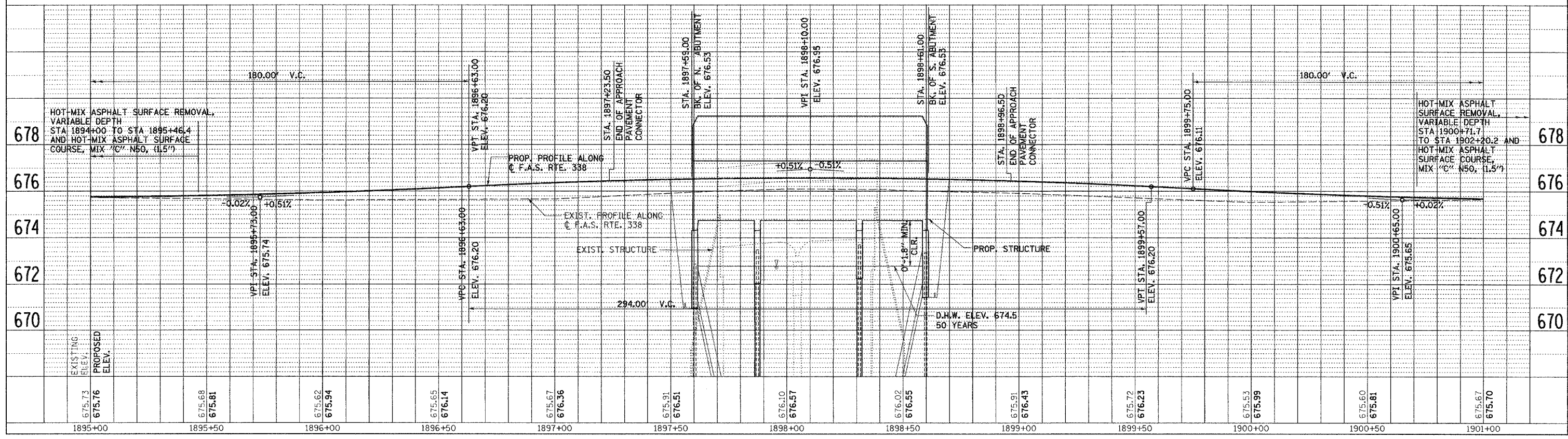
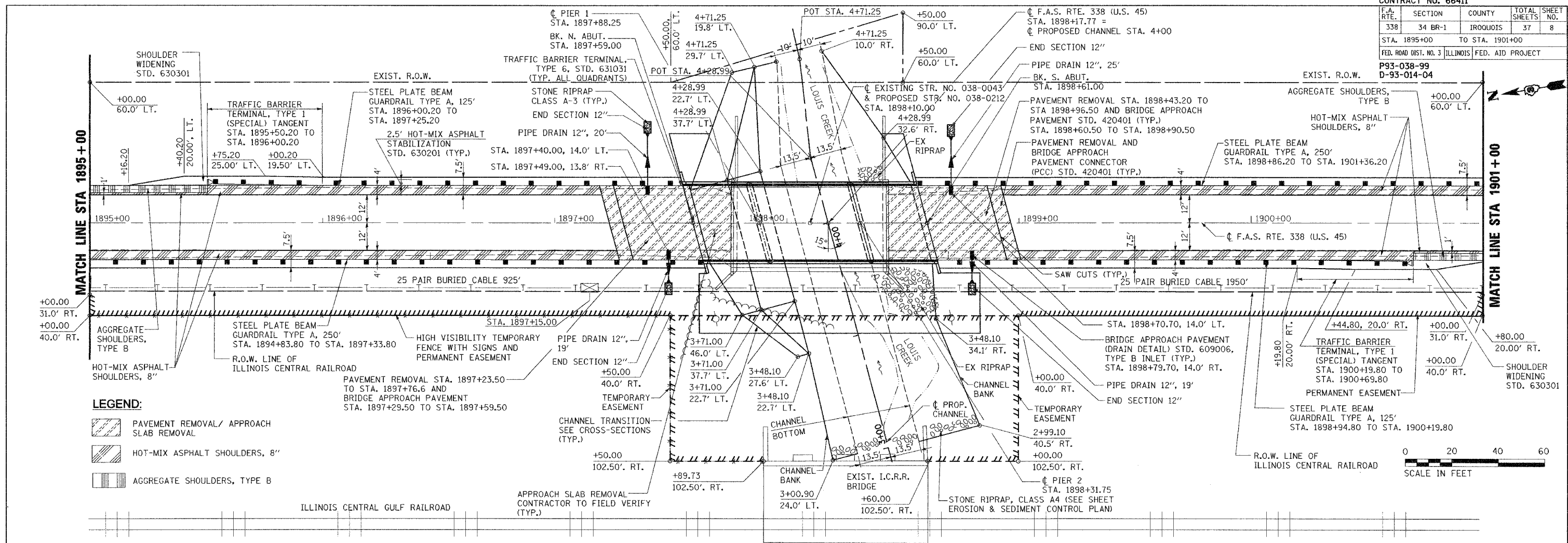


CONTRACT NO. 66411				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	34 BR-1	IROQUOIS	37	8
STA. 1895+00		TO STA. 1901+00		
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				

P93-038-99
D-93-014-04

PLAN	REVISIONS	DATE
NO.	BY	
NO.	BY	
NO.	BY	

PROFILE	REVISIONS	DATE
NO.	BY	
NO.	BY	
NO.	BY	

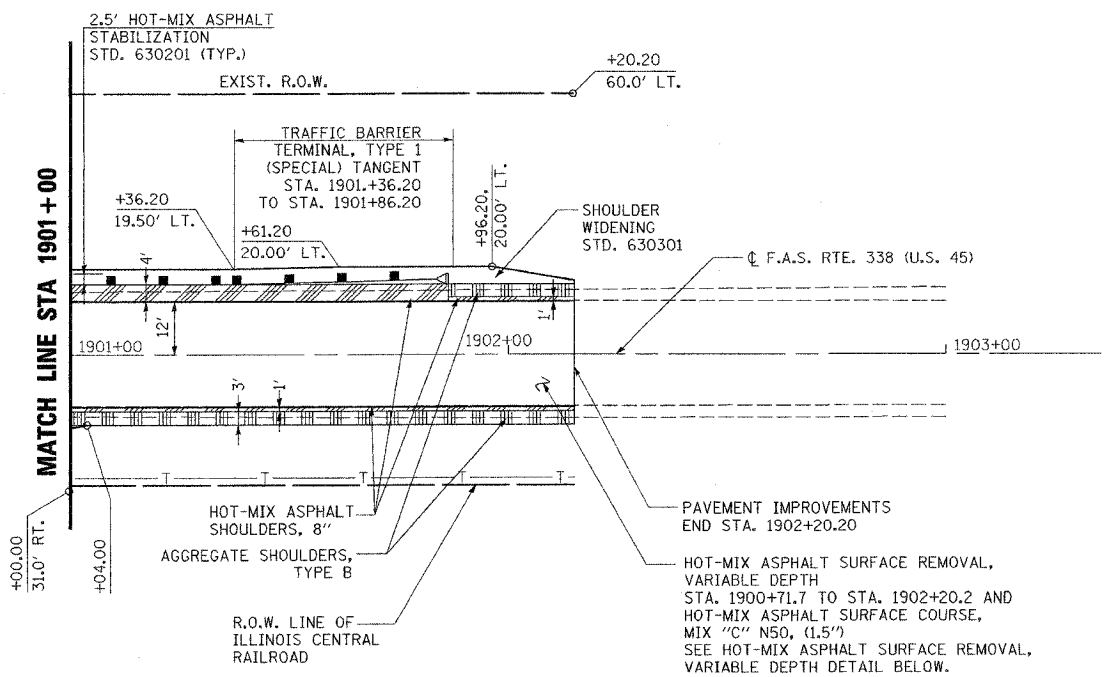


1895+00	1895+50	1896+00	1896+50	1897+00	1897+50	1898+00	1898+50	1899+00	1899+50	1900+00	1900+50	1901+00
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CONTRACT NO. 66411				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	34 BR-1	IROQUOIS	37	9
STA. 1901+00		TO STA. 1901+99.00		
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				
P93-038-99 D-93-014-04				

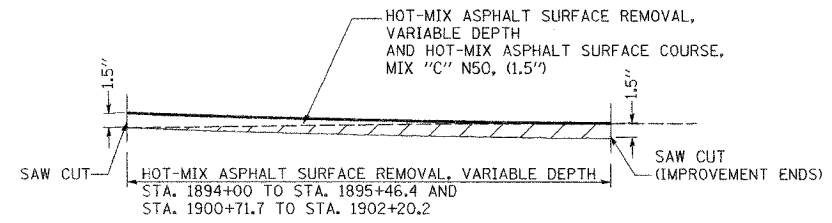


PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	REVISIONS		
	NO. OF "X" CHECKS		
	CARD FILE NAME		

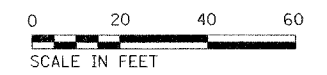


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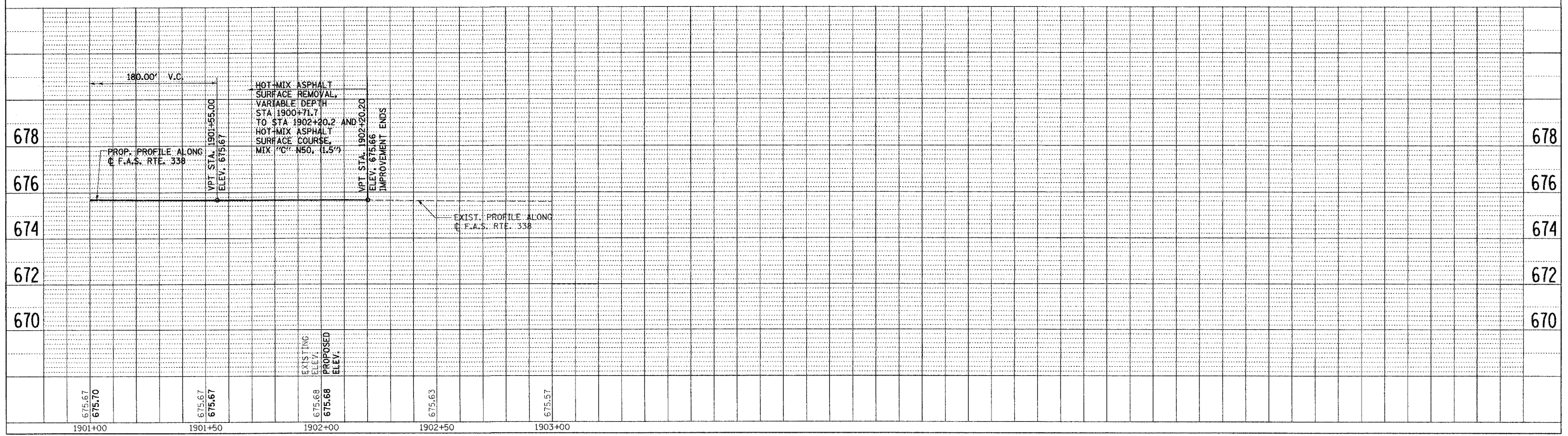
- PAVEMENT REMOVAL/ APPROACH SLAB REMOVAL
- HOT-MIX ASPHALT SHOULDERS, 8"
- AGGREGATE SHOULDERS, TYPE B



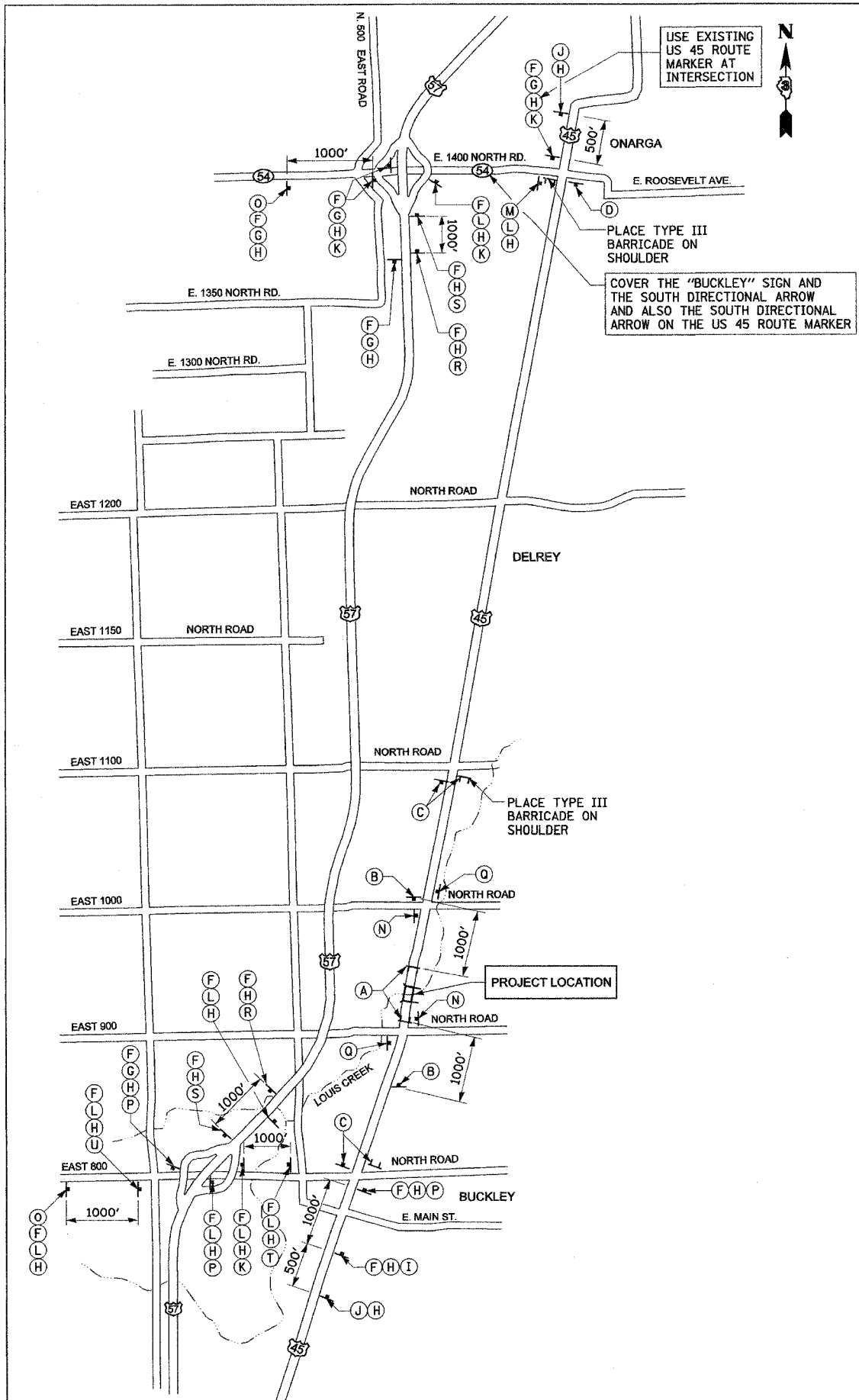
HOT-MIX ASPHALT SURFACE REMOVAL, DETAIL
(NTS)



PROFILE	REVERSE	BY	DATE
	PLOTTED		
	CHECKED		
	REVISIONS		
	NO. OF "X" CHECKS		
	STRUCTURE NOTATIONS ON/OFF		



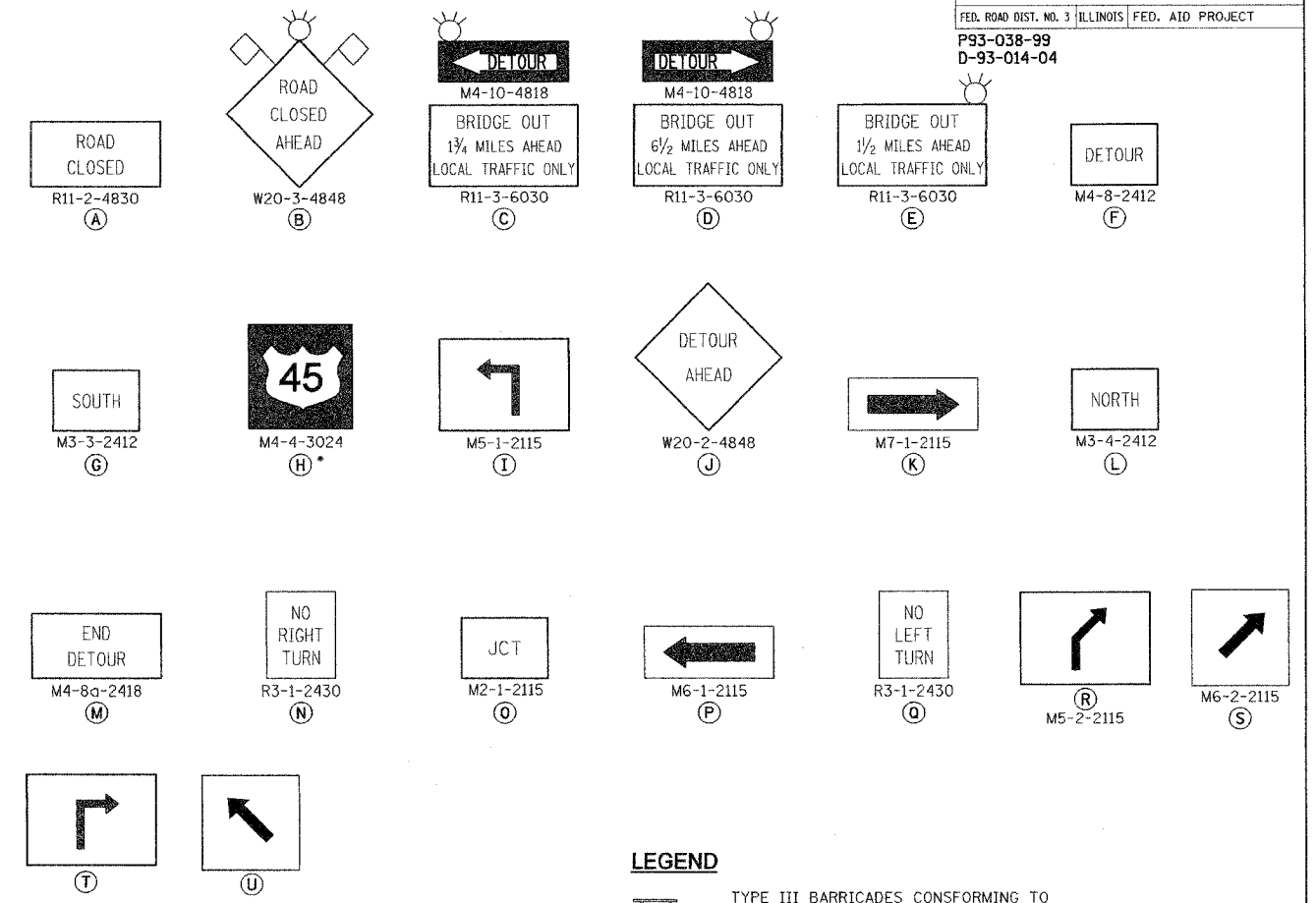
CONTRACT NO. 66411				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	34 BR-1	IROQUOIS	37	10
STA.		TO STA.		
FED. ROAD DIST. NO. 3		ILLINOIS FED. AID PROJECT		
P93-038-99				
D-93-014-04				



USE EXISTING US 45 ROUTE MARKER AT INTERSECTION

PLACE TYPE III BARRICADE ON SHOULDER

COVER THE "BUCKLEY" SIGN AND THE SOUTH DIRECTIONAL ARROW AND ALSO THE SOUTH DIRECTIONAL ARROW ON THE US 45 ROUTE MARKER



LEGEND

- TYPE III BARRICADES CONFORMING TO STD. 702001 "ROAD CLOSED TO ALL TRAFFIC" WITH 2 FLASHING LIGHTS PER BARRICADE
- SIGNS ON PERMANENT SUPPORTS
- FLASHING LIGHT ABOVE SIGN
- 18" x 18" ORANGE FLAG

GENERAL NOTES

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL SIGNS NOT ATTACHED TO BARRICADES SHALL BE POST MOUNTED, UNLESS OTHERWISE NOTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR PER LUMP SUM FOR TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR OTHER ITEMS REQUIRED BY THE ENGINEER AND NOT SHOWN ON THIS DRAWING SHALL BE INCLUDED IN THE PAY ITEM AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
5. THE ILLINOIS DEPARTMENT OF TRANSPORTATION WILL SUPPLY ALL US 45 ROUTE SIGNS FOR THIS DETOUR. THE CONTRACTOR SHALL NOTIFY DISTRICT 3 BUREAU OF OPERATIONS 14 CALENDAR DAYS PRIOR TO PLACING THE DETOUR.

* TO BE PLACED WITH INTERSTATE EXIT SIGNS AT TWO LOCATIONS

* THIS SIGN SHALL BE SUPPLIED BY IDOT

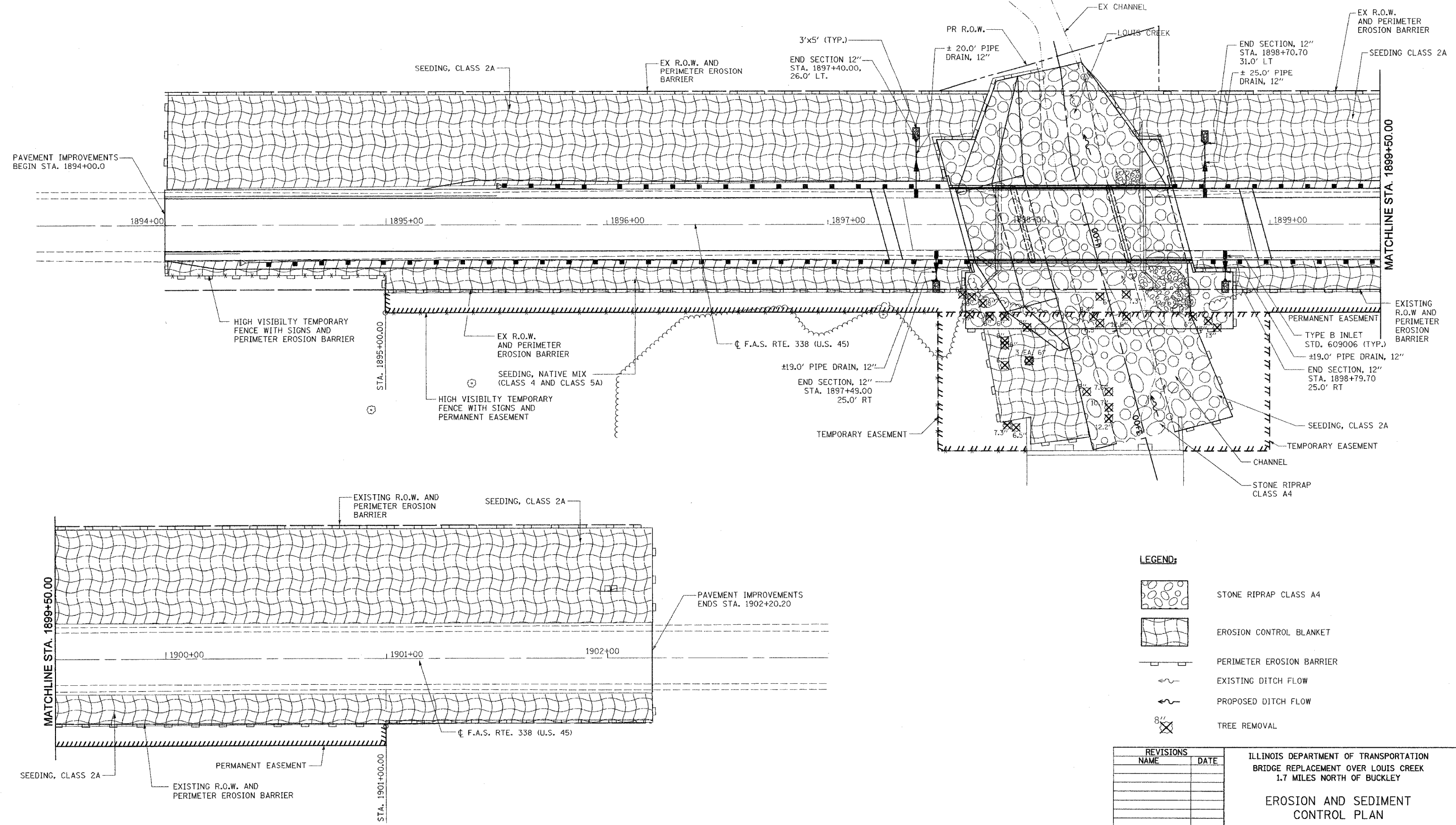
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 BRIDGE REPLACEMENT OVER LOUIS CREEK
 1.7 MILES NORTH OF BUCKLEY







TEMPORARY TRAFFIC DETOUR PLAN

SCALE: N.T.S. DRAWN BY J.S.
 DATE OCTOBER, 2006 CHECKED BY DR

CONTRACT NO. 66411				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	34 BR-1	IROQUOIS	37	11
STA. 1894+50.00		TO STA. 1901+99.00		
FED. ROAD DIST. NO. 3		ILLINOIS	FED. AID PROJECT	
P93-038-99				
D-93-014-04				



LEGEND:

-  STONE RIPRAP CLASS A4
-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER
-  EXISTING DITCH FLOW
-  PROPOSED DITCH FLOW
-  TREE REMOVAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 BRIDGE REPLACEMENT OVER LOUIS CREEK
 1.7 MILES NORTH OF BUCKLEY

EROSION AND SEDIMENT CONTROL PLAN

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE OCTOBER, 2006

DRAWN BY J.S.
 CHECKED BY DR

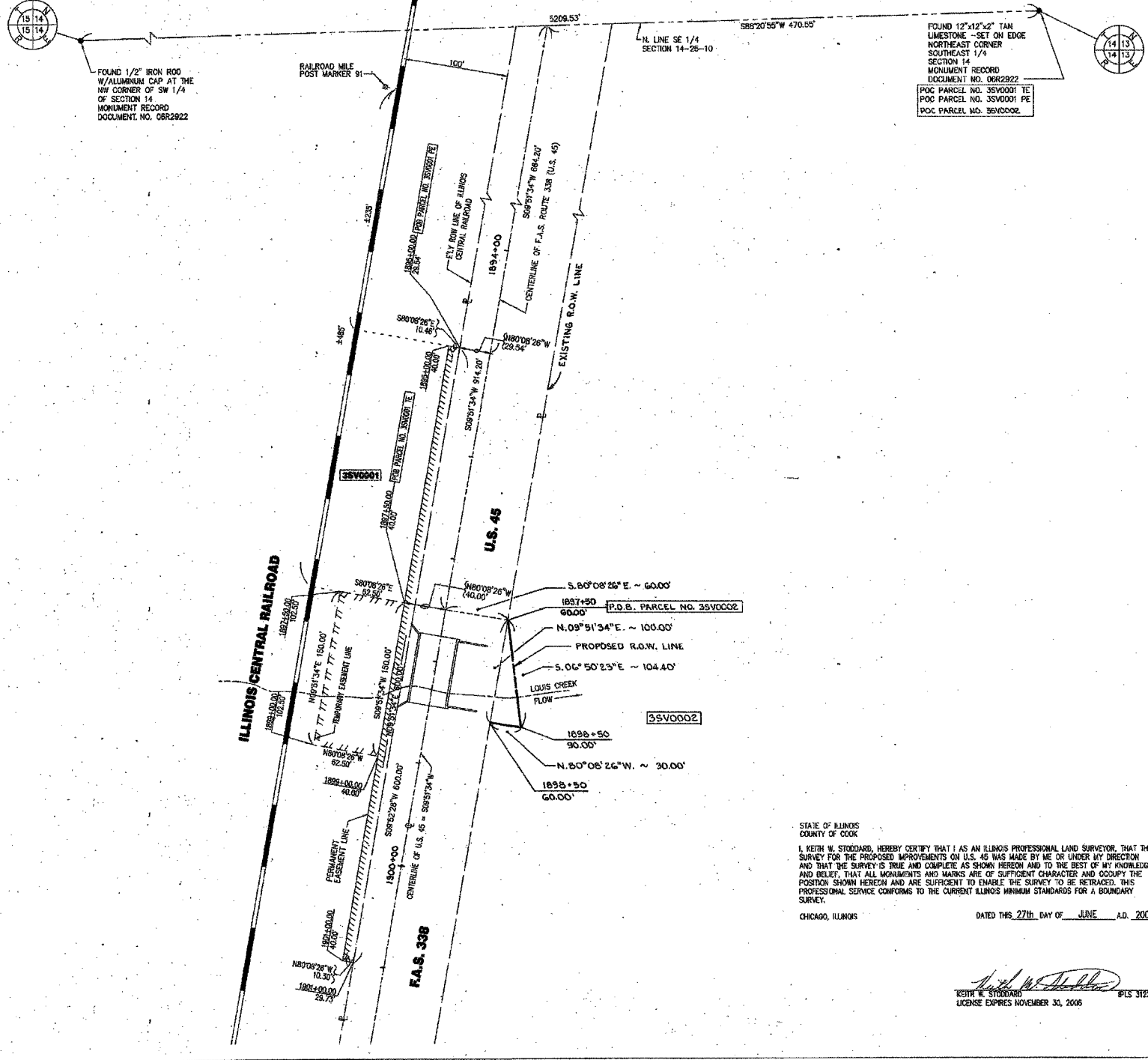
SOODAN & ASSOCIATES INC.
 Architects, Engineers & Construction Consultants

Contract No 66411

FAS RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	34BR-1	IROQUOIS	37	12
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

RECORDED AS DOCUMENT NO. _____ SLOT _____ FILE _____

SOUTHEAST 1/4 OF SECTION 14, TOWNSHIP 25 NORTH, RANGE 10 EAST OF THE 3RD PRINCIPAL MERIDIAN



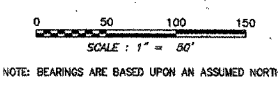
Parcel No. 35V0001
ILLINOIS CENTRAL RAILROAD
 PERMANENT EASEMENT = 0.142 ACRES ±
 PURPOSE = TREE REMOVAL AND CHANNEL RELOCATION
 TEMPORARY EASEMENT = 0.215 ACRES ±
 PURPOSE = TREE REMOVAL AND CHANNEL RELOCATION

PARCEL NO. 35V0002
RONALD WEBER, et al.
 TOTAL HOLDING = 44.540 AC. ±
 TOTAL R.O.W. REQUIRED = 0.034 AC. ± (1500 SQ. FT. ±)
 REMAINDER = 44.506 AC. ±



I, GERRY L. WOLTERING, CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, AND THAT I HAVE ADDED PARCEL NO. 35V0002 TO RIGHT OF WAY PLAN SHEET 1 OF 1, BASED UPON THE SURVEY FOR PROPOSED IMPROVEMENTS ON U.S. 45 MADE UNDER THE DIRECTION OF KEITH STODDARD.
 DATED 7-17-2006 BY *[Signature]*
 GERRY L. WOLTERING, ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3491

STATE OF ILLINOIS
 COUNTY OF COOK
 I, KEITH W. STODDARD, HEREBY CERTIFY THAT I AS AN ILLINOIS PROFESSIONAL LAND SURVEYOR, THAT THE SURVEY FOR THE PROPOSED IMPROVEMENTS ON U.S. 45 WAS MADE BY ME OR UNDER MY DIRECTION AND THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN HEREON AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF SUFFICIENT CHARACTER AND OCCUPY THE POSITION SHOWN HEREON AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RE-TRACED. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
 CHICAGO, ILLINOIS DATED THIS 27th DAY OF JUNE A.D. 2006



RIGHT OF WAY PLANS	
ROUTE	F.A.S. 338 (U.S. 45)
SECTION	34 BR-1
COUNTY	IROQUOIS
JOB NO.	R-03-008-34
STATION	1895+00.00 TO 1901+00.00
SCALE	1" = 50'
SHEET 1 of 1	

RIGHT OF WAY PLAN SHEET
LOUIS CREEK BRIDGE REPLACEMENT (038-0043)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY
 SCALE: VERT. _____
 DATE _____ HORIZ. _____
 DRAWN BY _____
 CHECKED BY _____

* DATE *
 * TIME *
 * DEN-SPEC *

Bench Mark: Chisel square S.W. Corner of S.E. Ref. Wall, Sta. 1898+42.14 18.7' LT. Elev. 676.306.

Existing Structure: S.N. 038-0043, Two-32'-3" spans, continuous 14" concrete slab with closed abutments and solid pier on spread footings. Built in 1924 as two span continuous reinf. concrete through girder bridge. Superstructure replaced in 1952 with widened substructure under F.A. Rt. 26 (S.B.I. Rte. 25) Sec. 34-B-Y. 19'-6" west and 15'-6" east of ϕ (Curb to Curb), "Texas T" type bridge rails, 38'-4" bridge width (Out to Out), 67'-10³/₄" bridge length (Bk. to Bk. abutments). Central 4' of slab width thickened and longitudinal separation joint eliminated in 1988. Existing structure to be removed and replaced. Traffic to be detoured during construction.

No salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATION 1898+10.00
BUILT 200_ BY
STATE OF ILLINOIS
F.A.S. ROUTE 338 (U.S. 45)
SECTION 34 BR-1
LOADING HS20
STR. NO. 38-0212

NAME PLATE

See Std. 515001

Index of Sheets

Dwg #	Title
1	General Plan and Elevation
2	Top of Slab Elevations
3	Superstructure
4	Superstructure Details
5	Abutment Plan, Elevation & Details
6	Piers
7	Soil Boring Logs, 1 of 2
8	Soil Boring Logs, 2 of 2

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
U.S. 45	34 BR-1	IROQUOIS COUNTY	37	13	8 SHEETS
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT - CONTRACT # 66411					

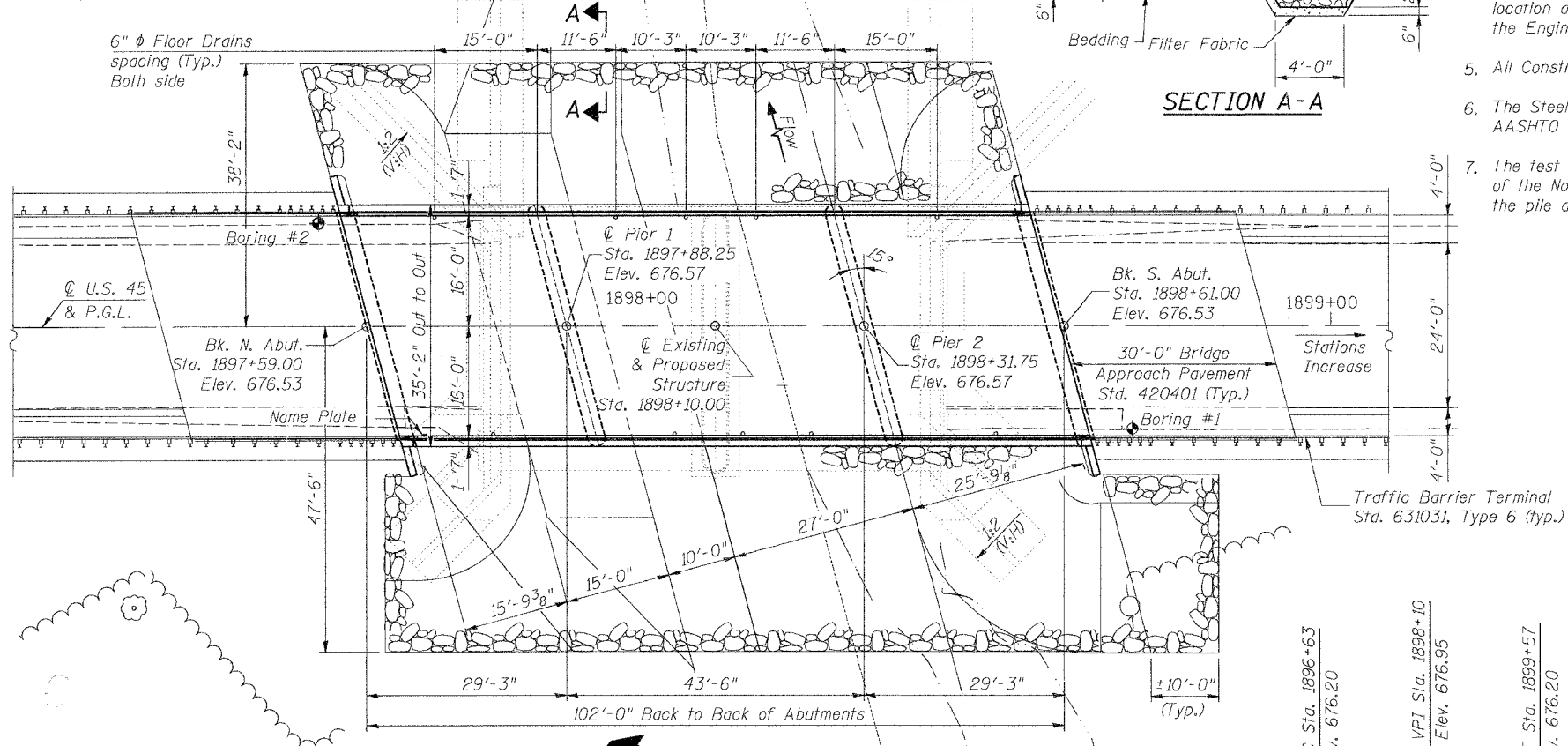
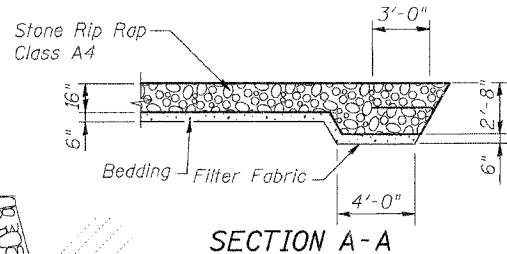
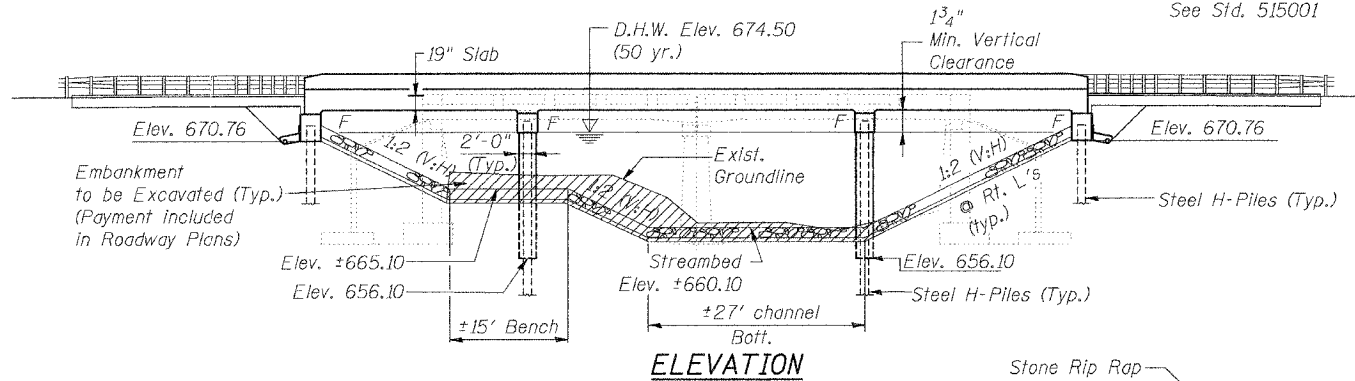
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
* Porous Granular Embankment, Special	Cu. Yd.	-	66	66
Stone Riprap, Class A4	Sq. Yd.	-	1051	1051
Filter Fabric	Sq. Yd.	-	1051	1051
Removal of Existing Structures	Each	-	1	1
Structure Excavation	Cu. Yd.	-	86	86
Floor Drains	Each	10	-	10
Concrete Structures	Cu. Yd.	-	108.1	108.1
Concrete Superstructure	Cu. Yd.	239.0	-	239.0
Bridge Deck Grooving	Sq. Yd.	348	-	348
Protective Coat	Sq. Yd.	444	-	444
Reinforcement Bars, Epoxy Coated	Pound	46530	10550	57080
Furnishing Steel Piles HPI2x53	Foot	-	1869	1869
Driving Piles	Foot	-	1869	1869
Test Pile Steel HPI2x53	Each	-	4	4
Name Plates	Each	1	-	1
Geocomposite Wall Drain	Sq. Yd.	-	31	31
* Pipe Underdrains For Structures 4"	Foot	-	125	125
* Underwater Structure Excavation Protection - Location 1	Each	-	1	1
* Underwater Structure Excavation Protection - Location 2	Each	-	1	1

* Special Provision required.

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (1L Modified). See Special Provisions.
2. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
3. The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection.
4. The Contractor shall drive One test pile in a permanent location at each abutment & pier as directed by the Engineer before ordering the remainder of piles.
5. All Construction joints shall be bonded.
6. The Steel H-piles shall be according to AASHTO M270 Grade 50.
7. The test pile(s) shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.



WATERWAY INFORMATION

Drainage Area = 20.9 mi² Prop. Low Grade Elev. 675.60 ft. @ Sta. 1903+00

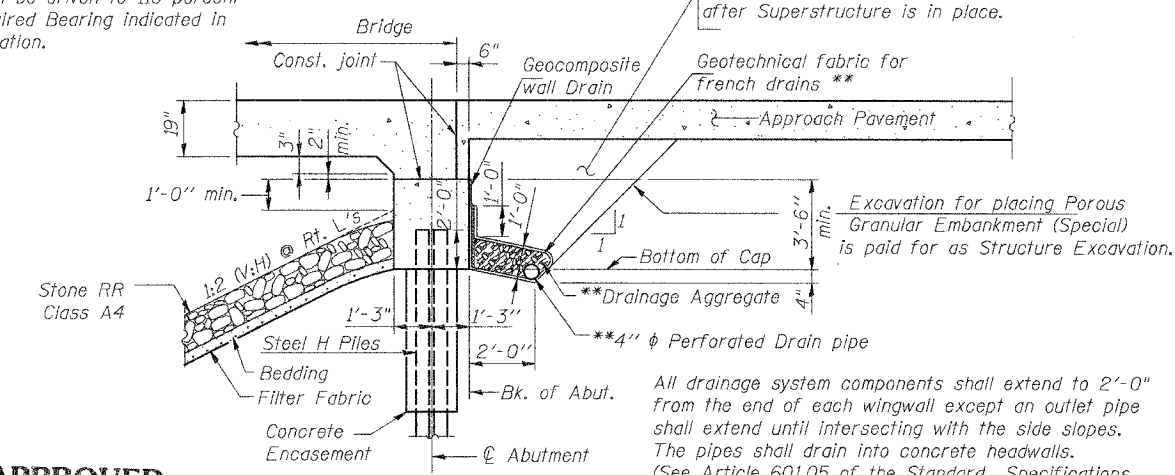
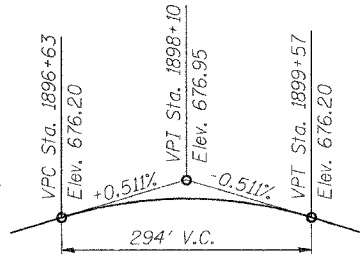
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Nat. H.W.E. Exist.	Prop.	Head - Ft. Exist.*	Prop.*	Headwater El. Exist.*	Prop.*
Design	10	2550	581	748	673.0	674.5	0.5	0.3	673.5	673.3
Base	50	4075	654	873	674.5	675.0	1.0	0.7	675.5	675.2
Overtopping	100	4750	654	873	675.0	675.0	1.3	0.9	676.3	675.9
	80	4500	654	873	674.8	674.8	1.1	0.8	675.9	675.6

* Elevations reduced by 0.4' to get to roadway survey datum.

SCOUR ELEVATION TABLE

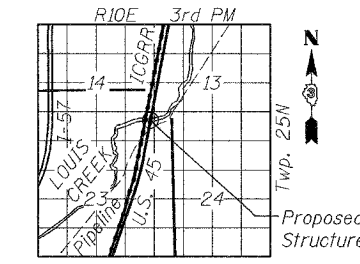
Design Scour Elevation (ft)	N. Abutment	Pier 1	Pier 2	S. Abutment
	670.76	661.10	656.10	670.76

PROFILE GRADE



SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. L's)



LOCATION SKETCH

APPROVED FOR STRUCTURAL ADEQUACY ONLY

Relief & Associates, LTD
ENGINEER OF BRIDGES AND STRUCTURES



Hakim H. Tayebi
Illinois Licensed Structural Engineer
No. 081-003266
License Exp. 11-30-06

GENERAL PLAN AND ELEVATION

U.S. 45 OVER LOUIS CREEK
FAS ROUTE 338 (U.S. 45), SECTION 34 BR-1
IROQUOIS COUNTY
STATION 1898+10.00
STRUCTURE NO. 038-0212

SCALE: NONE DATE: OCTOBER, 2006

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2 8 SHEETS
U.S. 45	34 BR-1	IROQUOIS COUNTY	37	14	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	CONTRACT # 66411		

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT	1897+54.71	-16.00	676.250	676.250
A	1897+64.71	-16.00	676.268	676.274
B	1897+74.71	-16.00	676.282	676.283
☉. PIER 1	1897+83.96	-16.00	676.292	676.292
C	1897+93.96	-16.00	676.299	676.311
D	1898+03.96	-16.00	676.303	676.344
E	1898+13.96	-16.00	676.303	676.329
☉. PIER 2	1898+27.46	-16.00	676.298	676.298
F	1898+37.46	-16.00	676.291	676.293
G	1898+47.46	-16.00	676.279	676.285
BK. S. ABUT	1898+56.71	-16.00	676.266	676.266

EAST SHOULDER LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT	1897+55.79	-12.00	676.336	676.336
A	1897+65.79	-12.00	676.353	676.359
B	1897+75.79	-12.00	676.367	676.368
☉. PIER 1	1897+85.04	-12.00	676.376	676.376
C	1897+95.04	-12.00	676.383	676.395
D	1898+05.04	-12.00	676.386	676.427
E	1898+15.04	-12.00	676.386	676.412
☉. PIER 2	1898+28.54	-12.00	676.381	676.381
F	1898+38.54	-12.00	676.373	676.375
G	1898+48.54	-12.00	676.361	676.367
BK. S. ABUT	1898+57.79	-12.00	676.347	676.347

P.G.L.

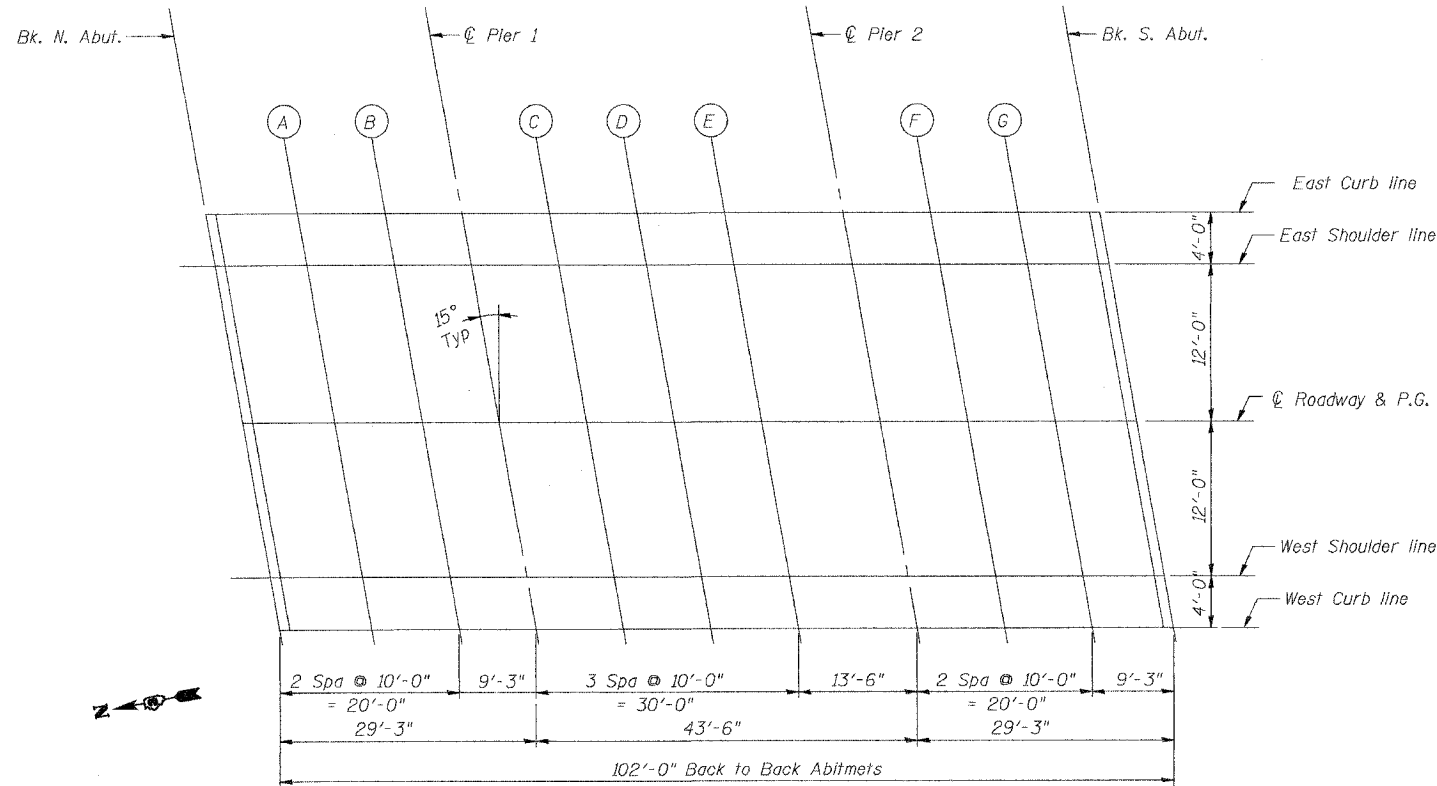
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT	1897+59.00	0.00	676.529	676.529
A	1897+69.00	0.00	676.545	676.551
B	1897+79.00	0.00	676.558	676.559
☉. PIER 1	1897+88.25	0.00	676.566	676.566
C	1897+98.25	0.00	676.572	676.584
D	1898+08.25	0.00	676.574	676.615
E	1898+18.25	0.00	676.573	676.599
☉. PIER 2	1898+31.75	0.00	676.566	676.566
F	1898+41.75	0.00	676.557	676.559
G	1898+51.75	0.00	676.544	676.550
BK. S. ABUT	1898+61.00	0.00	676.529	676.529

WEST SHOULDER LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT	1897+62.22	12.00	676.347	676.347
A	1897+72.22	12.00	676.362	676.368
B	1897+82.22	12.00	676.373	676.375
☉. PIER 1	1897+91.47	12.00	676.381	676.381
C	1898+01.47	12.00	676.386	676.398
D	1898+11.47	12.00	676.387	676.428
E	1898+21.47	12.00	676.385	676.410
☉. PIER 2	1898+34.97	12.00	676.376	676.376
F	1898+44.97	12.00	676.366	676.368
G	1898+54.97	12.00	676.352	676.358
BK. S. ABUT	1898+64.22	12.00	676.336	676.336

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. N. ABUT	1897+63.29	16.00	676.266	676.266
A	1897+73.29	16.00	676.280	676.286
B	1897+83.29	16.00	676.291	676.293
☉. PIER 1	1897+92.54	16.00	676.298	676.298
C	1898+02.54	16.00	676.303	676.315
D	1898+12.54	16.00	676.304	676.344
E	1898+22.54	16.00	676.301	676.326
☉. PIER 2	1898+36.04	16.00	676.292	676.292
F	1898+46.04	16.00	676.281	676.283
G	1898+56.04	16.00	676.267	676.273
BK. S. ABUT	1898+65.29	16.00	676.250	676.250



PLAN

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

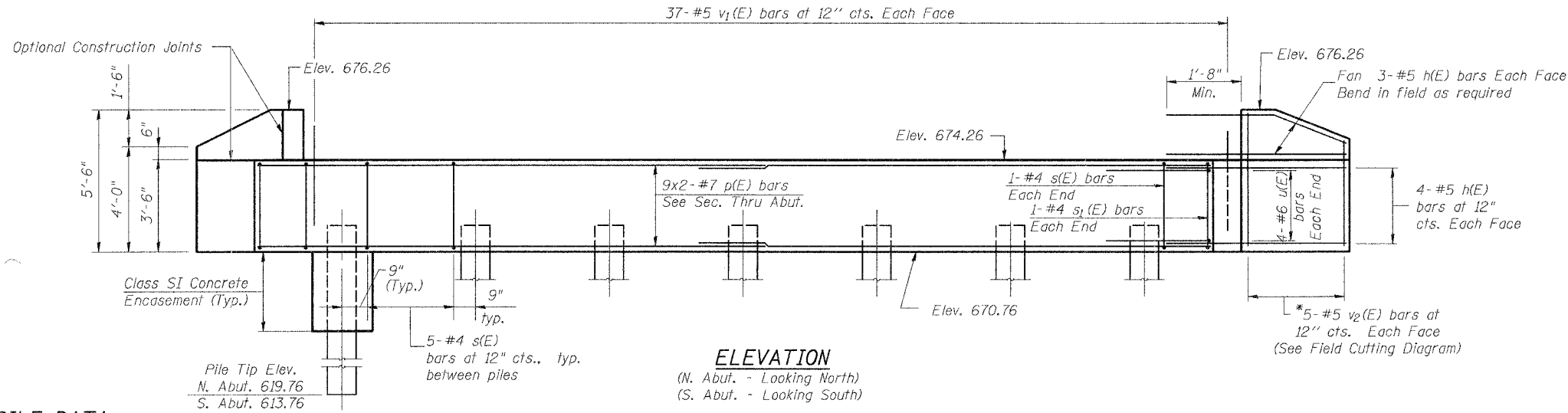
TOP OF SLAB ELEVATIONS
 U.S. 45 OVER LOUIS CREEK
 FAS ROUTE 338 (U.S. 45), SECTION 34 BR-1
 IROQUOIS COUNTY
 STATION 1898+10.00
 STRUCTURE NO. 038-0212

SCALE: NONE DATE: OCTOBER, 2006
 Soodan & Associates, Inc.
 200 North LaSalle Street, Suite 1800
 Chicago, Illinois 60602

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

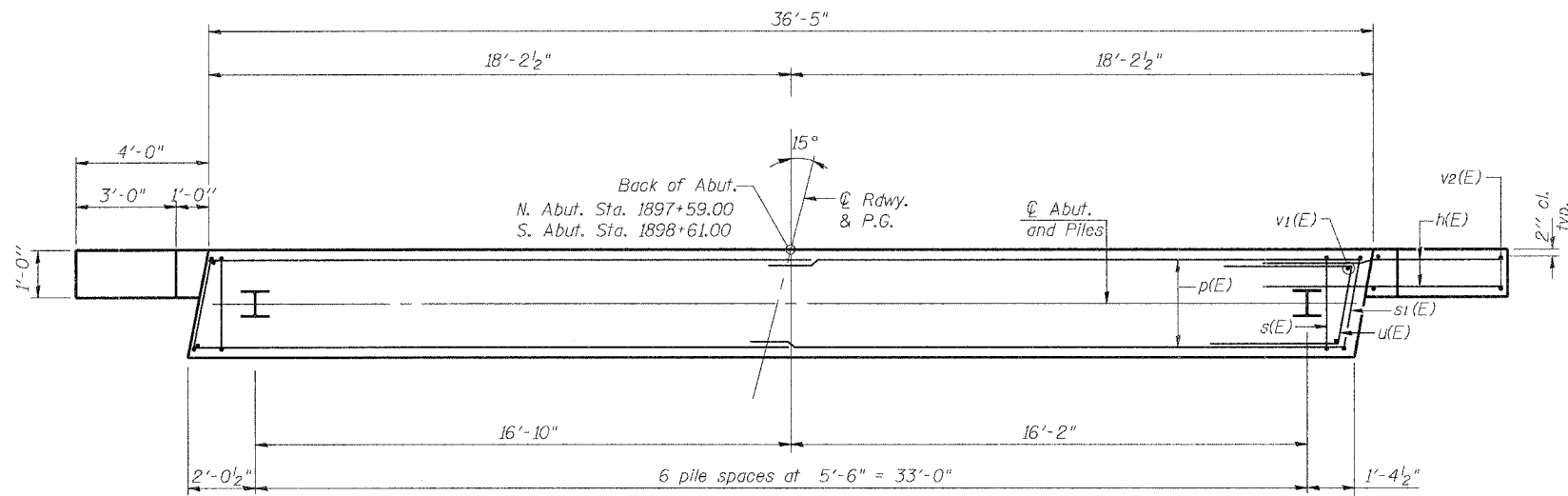
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5 8 SHEETS
U.S. 45	34 BR-1	IROQUOIS COUNTY	37	17	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

CONTRACT # 66411



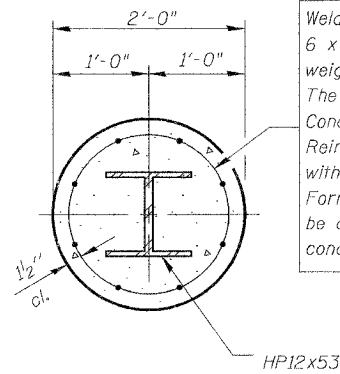
PILE DATA

Type : HP12x53
Nominal Required Bearing : 270 kips
Allowable Resistance Available: 90 kips
Est. Length: 53' (N. Abut.), 59' (S. Abut.)
No. Required: 6+1 Test Pile (N. Abut.)
6+1 Test Pile (S. Abut.)

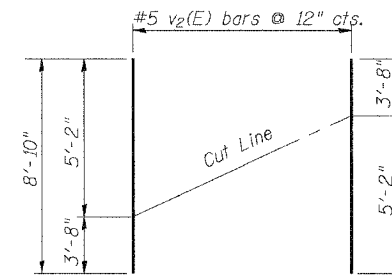
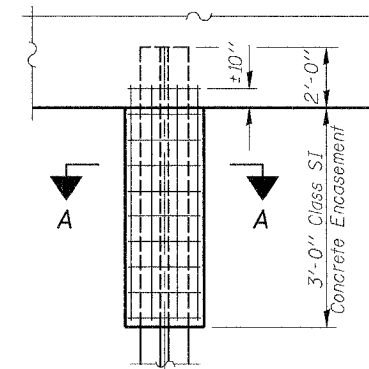


MIN. BAR LAP

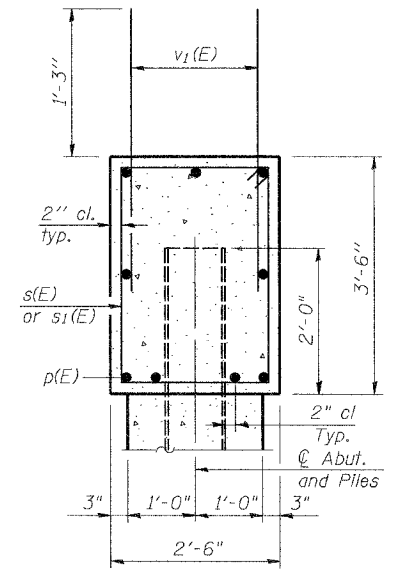
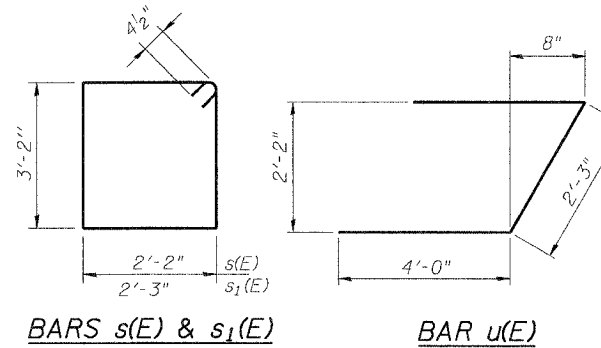
- #5 = 1'-8"
- #6 = 2'-0"
- #7 = 2'-8"
- #8 = 3'-5"



Welded wire fabric
6 x 6-W4.0 x W4.0
weighing 58#/100 sq. ft.
The cost of Excavation,
Concrete Encasement and
Reinforcement is included
with Furnishing Piles.
Forms for Encasement may
be omitted when soil
conditions permit.



*Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



**TWO ABUTMENTS
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	56	#5	5'-8"	—
p(E)	36	#7	19'-6"	—
s(E)	64	#4	11'-5"	□
s1(E)	4	#4	11'-7"	□
u(E)	16	#7	10'-3"	┌
v1(E)	148	#5	3'-8"	—
v2(E)	20	#5	8'-10"	—

ITEM	UNIT	QUANTITY
Concrete Structures	Cu. Yd.	26.5
Reinforcement Bars, Epoxy Coated	Pound	3,370
Structure Excavation	Cu. Yd.	49.2
Furnishing Steel Piles HP 12 x 53	Foot	672
Driving Piles	Foot	672
Test Pile Steel HP 12 x 53	Each	2
Geocomposite Wall Drain For Structures 4"	Sq. Yd.	31
Pipe Underdrains For Structures 4"	Foot	125

Notes:
Reinforcement bars designated (E) shall be epoxy coated.

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

ABUTMENT PLAN, ELEVATION & DETAILS

U.S. 45 OVER LOUIS CREEK
FAS ROUTE 338 (U.S. 45), SECTION 34 BR-1
IROQUOIS COUNTY
STATION 1898+10.00
STRUCTURE NO. 038-0212

SCALE: NONE DATE: OCTOBER, 2006
Soodan
Soodan & Associates, Inc.
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602

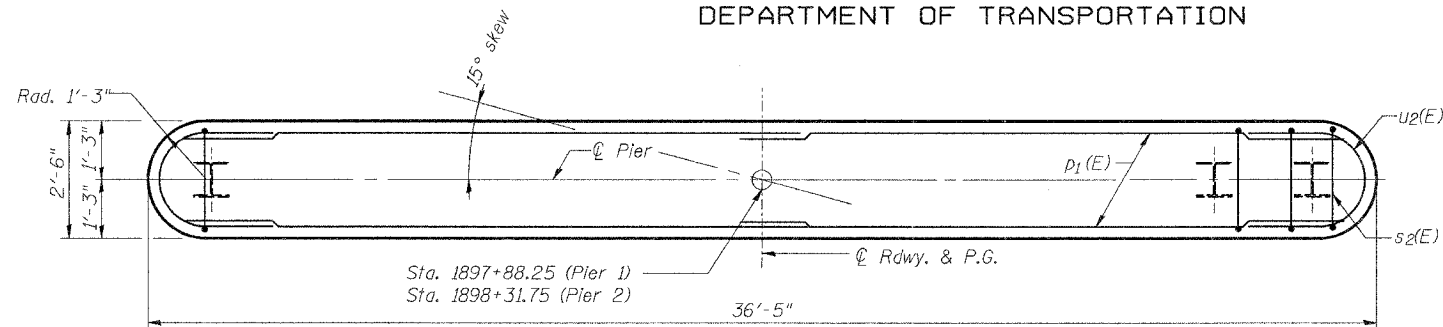
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 6 8 SHEETS
U.S. 45	34 BR-1	IROQUOIS COUNTY	37	18	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

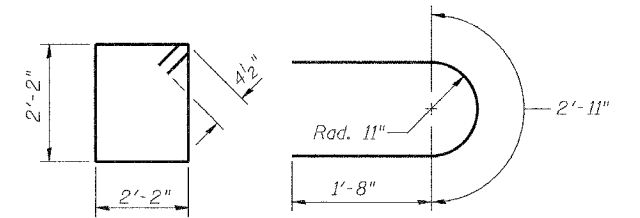
CONTRACT # 66411

PILE DATA

Type : Steel HP 12x53
Nominal required Bearing: 330 kips
Allowable Resistance Available: 110 kips
Est. Length: 63' (Pier 1)
70' (Pier 2)
No. Req.: 9+1 Test Pile (Pier 1)
9+1 Test Pile (Pier 2)

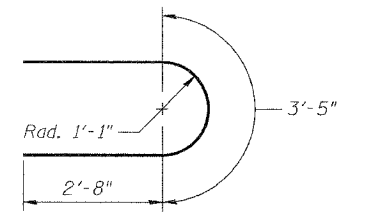


TOP PLAN

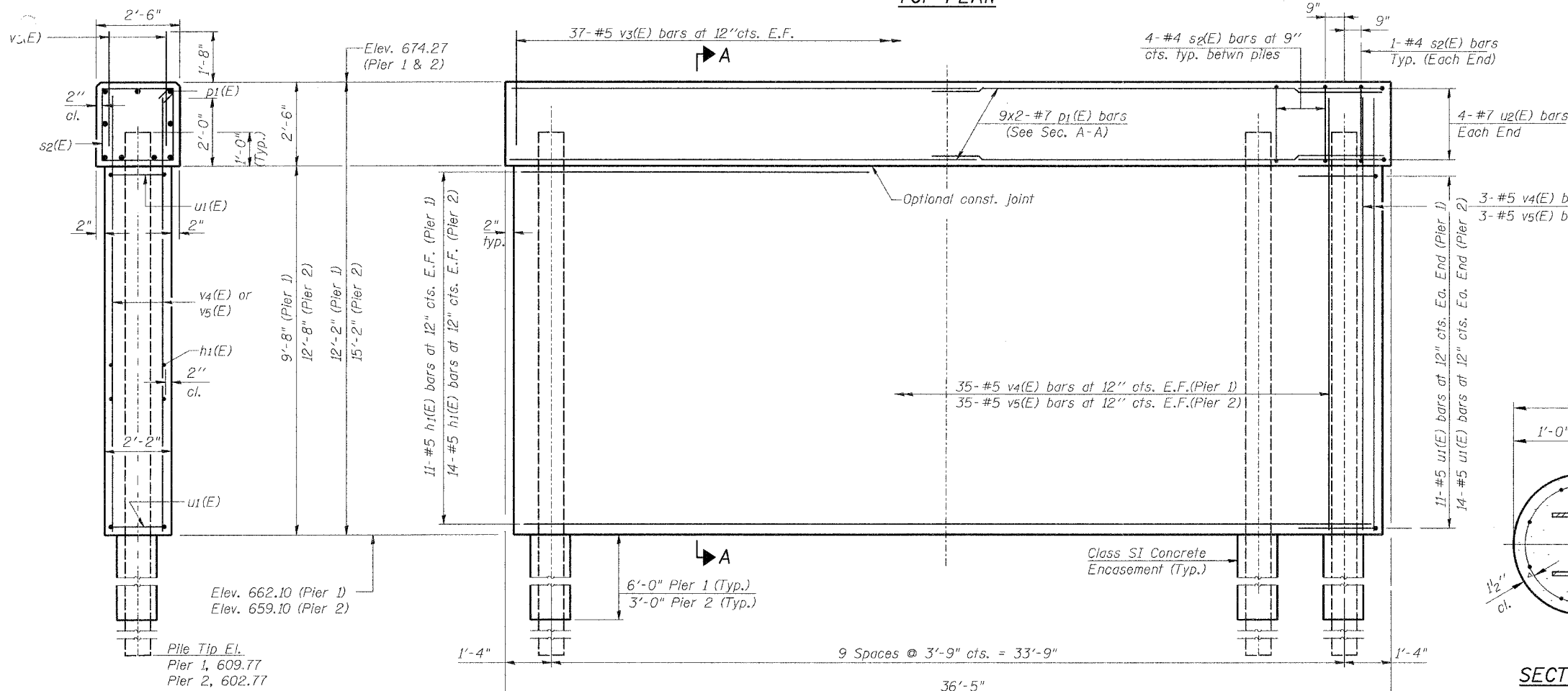


BAR s2(E)

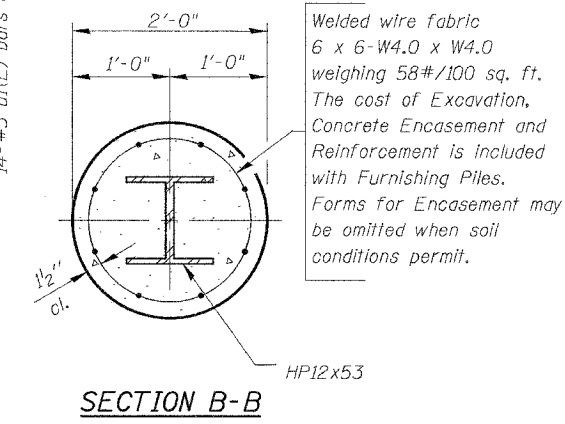
BARS u1(E)



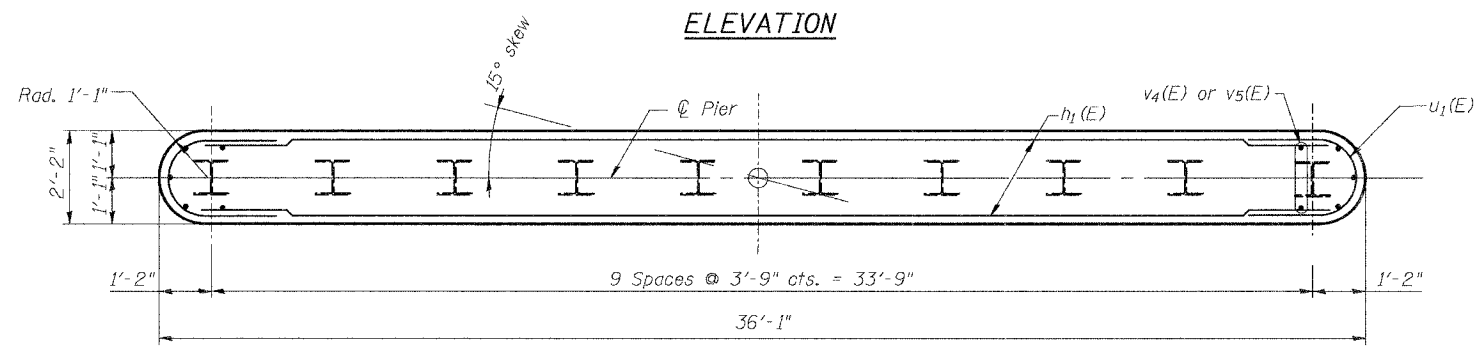
BARS u2(E)



SECTION A-A



SECTION B-B



FOOTING PLAN

**TWO PIERS
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h1(E)	50	#5	33'-9"	—
p1(E)	36	#7	19'-6"	—
s2(E)	76	#5	9'-5"	□
u1(E)	50	#5	6'-3"	U
u2(E)	16	#7	8'-9"	U
v3(E)	148	#5	3'-8"	—
v4(E)	76	#5	11'-6"	—
v5(E)	76	#5	14'-6"	—
ITEM	UNIT	QUANTITY		
Concrete Structures	Cu. Yd.	81.6		
Reinforcement Bars, Epoxy Coated	Pound	7,180		
Structure Excavation	Cu. Yd.	36.9		
Furnishing Steel Piles HP 12 x 53	Foot	1197		
Driving Piles	Foot	1197		
Test Pile Steel HP 12 x 53	Each	2		
Underwater Structure Excavation Protection - Location 1	Each	1		
Underwater Structure Excavation Protection - Location 2	Each	1		

Reinforcement Bars designated (E) shall be epoxy coated.

MIN. BAR LAP

#5 = 1'-8"
#7 = 2'-8"

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

PIERS

U.S. 45 OVER LOUIS CREEK
FAS ROUTE 338 (U.S. 45), SECTION 34 BR-1
IROQUOIS COUNTY
STATION 1898+10.00
STRUCTURE NO. 038-0212

SCALE: NONE DATE: OCTOBER, 2006
Soodan
Soodan & Associates, Inc.
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 45	34 BR-1	IROQUOIS COUNTY	37	21
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

CONTRACT # 66411

S.B.I. RT. 25 (F.A. RT. 26) SEC. 34 B.Y. IROQUOIS C.O.

SEC. 14 - T25N - R10E - 3rd RM.

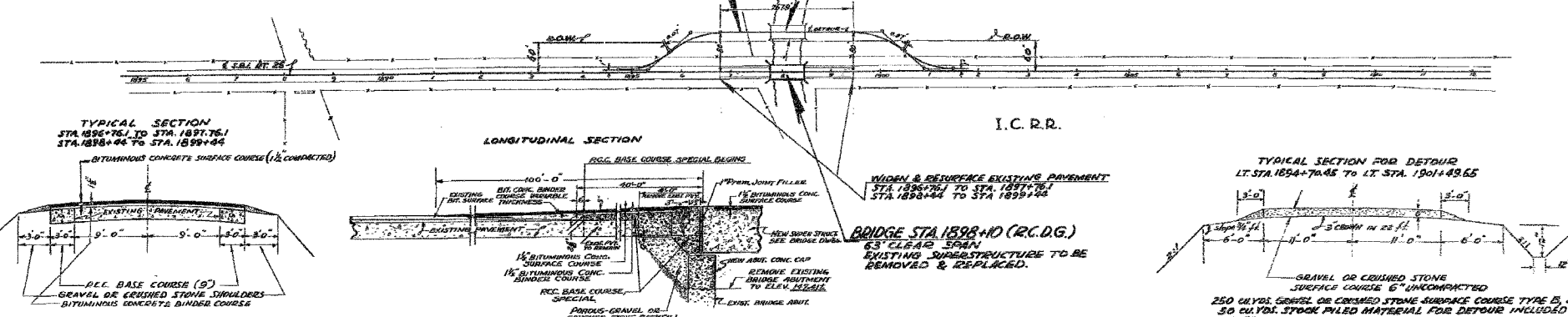
CURVE DATA FOR DETOUR
 R1 1/4" STA. 1895+79.43
 R2 1/4" STA. 1896+71.1
 R1 50' LT. STA. 1900+62.58
 R1 1/4" STA. 1900+90.57
 Δ = 43°-01'
 D = 38°-00'
 Δ = 133.56'
 T = 58.78'
 L = 110.57'

CONSTRUCT DETOUR
 LT. STA. 1894+70.45 TO LT. STA. 1901+49.65

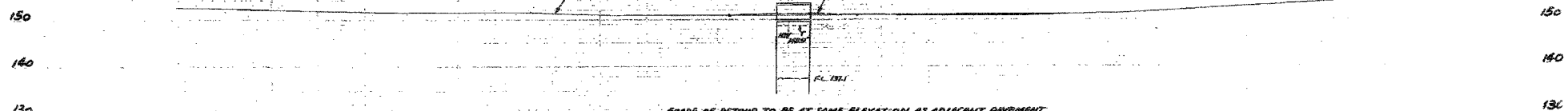
TEMPORARY BRIDGE

WM. E. BALK

I. C. R.R.



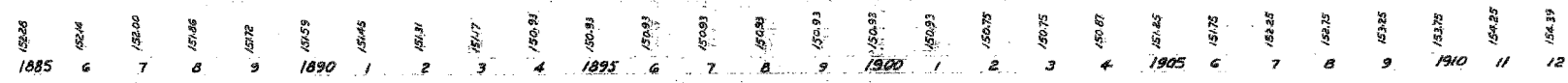
- Quantities for Widening & Resurfacing**
 STA. 1894+76.1 TO STA. 1897+76.1 & STA. 1898+44 TO STA. 1898+44
- 36 CU. YDS. EARTH EXCAVATION
 - 5.8 TONS BITUMINOUS MATERIALS APPLIED (PRIME)
 - 66.3 TONS BITUMINOUS CONCRETE BINDER COURSE
 - 43.2 TONS BITUMINOUS CONCRETE SURFACE COURSE, SUBCLASS I-II
 - 3.0 TONS LEVELING BINDER (HAND METHOD)
 - 0.3 TONS MIXTURE, 2"
 - 21 TONS GRAVEL OR CRUSHED STONE SHOULDERS
 - 81 3/4 YDS. P.C.C. BASE COURSE (9")
 - 16 3/4 YDS. PAVEMENT (12" CURB)
 - 3.0 CU. YDS. POROUS GR. OR CR. ST. BACKFILL
 - 211 5/8 YDS. P.C.C. BASE COURSE, SPECIAL



Estimated Earth Quantities For Detour

- ESTIMATE - 20 CU. YDS. CUT
- ESTIMATE - 3700 CU. YDS. FILL
- ESTIMATE - 4600 CU. YDS. BORROW

NOTE: EXACT QUANTITIES TO BE DETERMINED BY X-SECTIONS TAKEN BY ENGINEER BEFORE AND AFTER CONSTRUCTION.



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

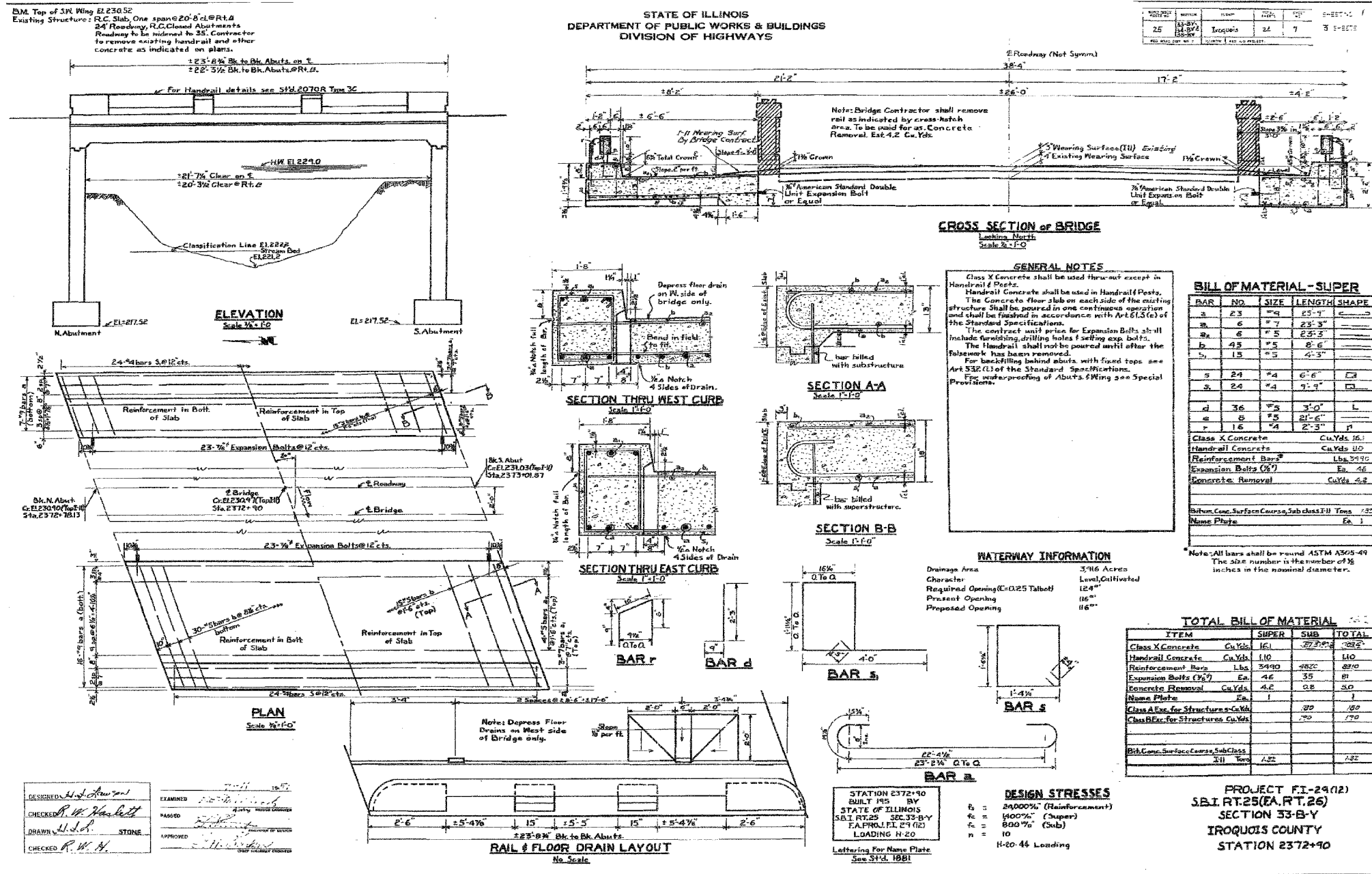
FOR INFORMATION ONLY

SCALE: NONE DATE: JULY, 2006

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 45	34 BR-1	IROQUOIS COUNTY	37	22
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	
CONTRACT # 66411				



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

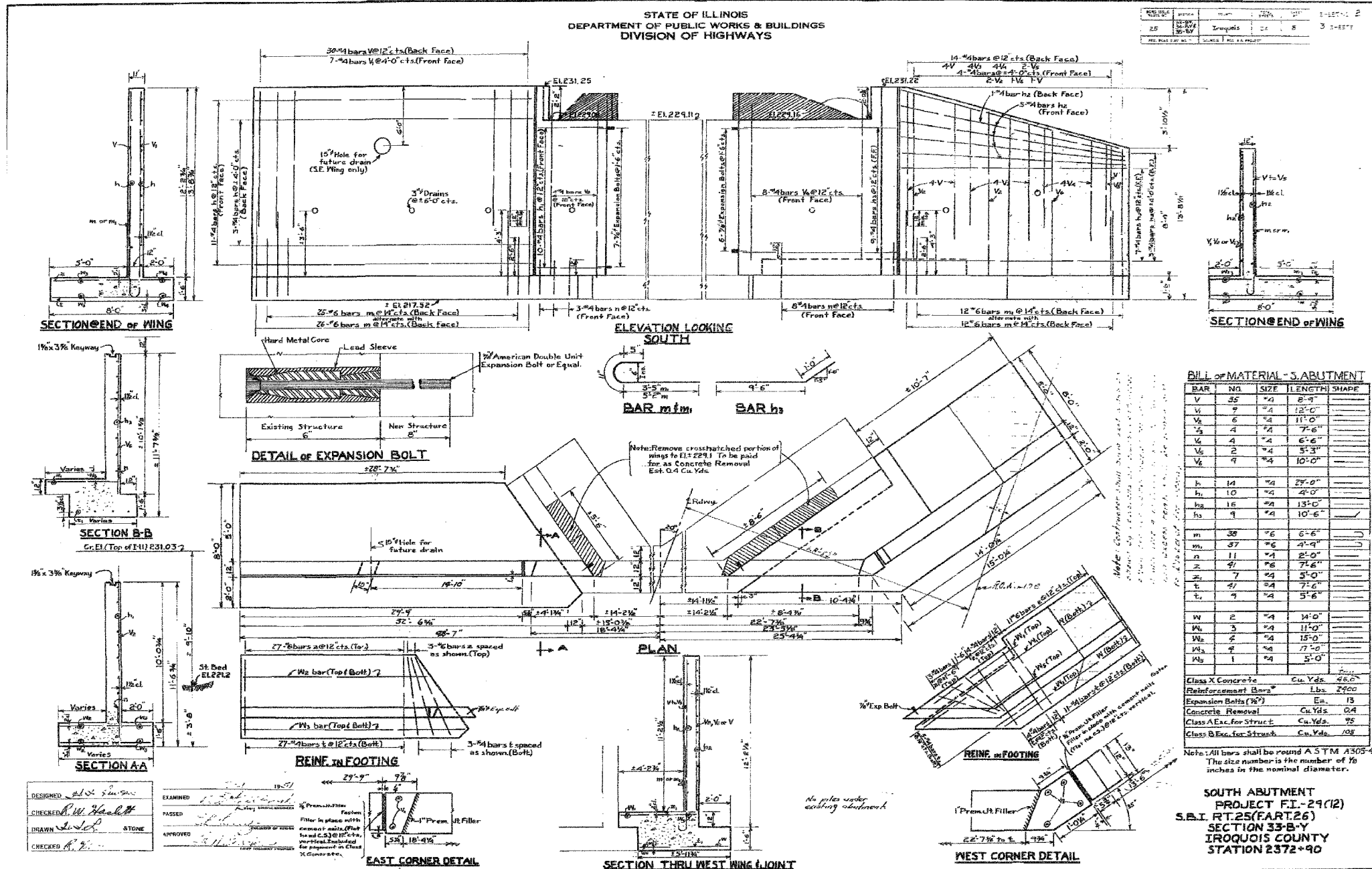
FOR INFORMATION ONLY

SCALE: NONE DATE: JULY, 2006

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 45	34 BR-1	IROQUOIS COUNTY	37	23
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-		
CONTRACT # 66411				



BILL OF MATERIAL - S. ABUTMENT

BAR	NO.	SIZE	LENGTH	SHAPE
V	35	#4	8'-9"	
V	9	#4	12'-0"	
V ₁	6	#4	11'-0"	
V ₂	4	#4	7'-6"	
V ₃	4	#4	6'-6"	
V ₄	2	#4	5'-3"	
V ₅	9	#4	10'-0"	
h	14	#4	29'-0"	
h ₁	10	#4	4'-0"	
h ₂	16	#4	13'-0"	
h ₃	9	#4	10'-6"	
m	30	#6	6'-6"	
m ₁	37	#6	4'-9"	
n	11	#4	2'-0"	
z	4	#6	7'-6"	
z ₁	7	#4	5'-0"	
t	4	#4	7'-6"	
t ₁	7	#4	5'-6"	
w	2	#4	14'-0"	
w ₁	3	#4	11'-0"	
w ₂	2	#4	15'-0"	
w ₃	2	#4	17'-0"	
w ₄	1	#4	5'-0"	
Class X Concrete		Cu. Yds.	46.0	
Reinforcement Bars		Lbs.	2900	
Expansion Bolts (1/2")		Ea.	15	
Concrete Removal		Cu. Yds.	0.4	
Class A Exc. for Struct.		Cu. Yds.	75	
Class B Exc. for Struct.		Cu. Yds.	108	

Note: All bars shall be round A.S.T.M. A305-49. The size number is the number of 1/8 inches in the nominal diameter.

SOUTH ABUTMENT
PROJECT FI-29(12)
S.B.I. RT.25(FART.26)
SECTION 33-B-V
IROQUOIS COUNTY
STATION 2372+90

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

FOR INFORMATION ONLY

SCALE: NONE

DATE: JULY, 2006

Soodan

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

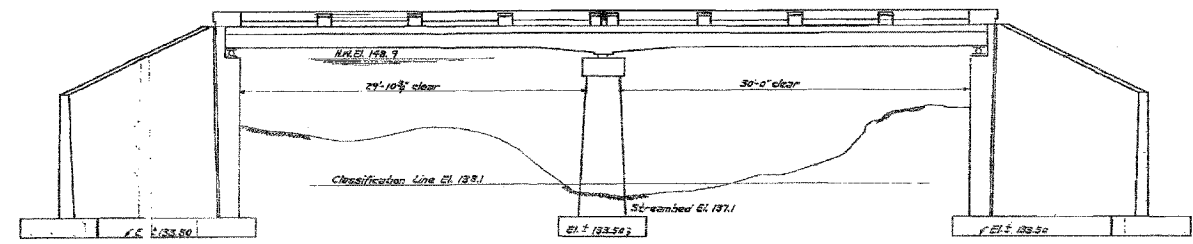
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 45	34 BR-1	IROQUOIS COUNTY	37	25
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	
CONTRACT # 6641				

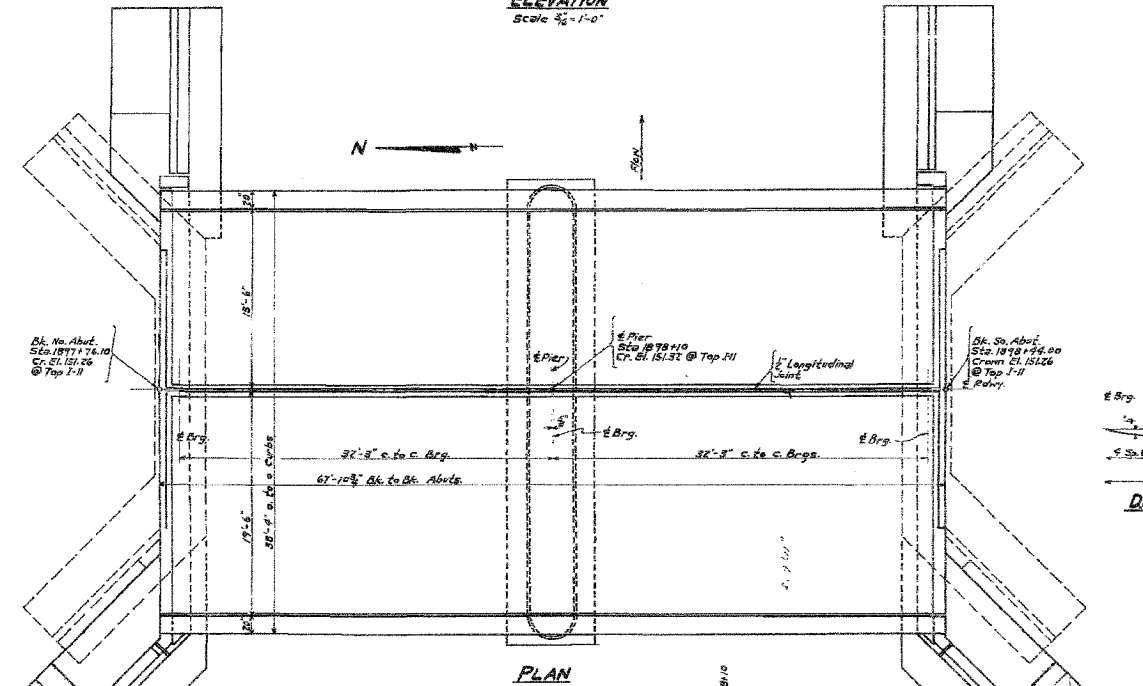
8" x 11" Top of Abut. Elev. 150.50
Elev. Street R.C. Through girder (Support) 2 Spaces @ 20'-0" R/W. 11'-0"
Substructure R.C. Check Abut. & Piers. Check for concrete
entire superstructure and portions of substructure as indicated
on plan. 1/4" C.C. 5/8" Conc. in Str. Super.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

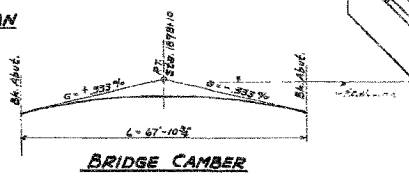
DATE	BY	CHKD.	APP'D.
11-15-51	W.E. Hanson	W.E. Hanson	W.E. Hanson
PROJECT NO. 11-15-51			



ELEVATION
Scale 3/4" = 1'-0"



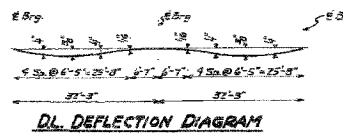
PLAN



BRIDGE CAMBER

GENERAL NOTES

Class X Concrete shall be used throughout except as noted.
Reinforcing steel shall be used in bridge as follows:
The concrete shall not be placed until after framework has been completed.
The concrete shall be placed in accordance with the contract.
At structural steel shall require one space each of steel bars in the case of
columns and at least one space between the columns.
All rebar, bearing plates, steel plates and bolts shall be in accordance with the
specifications with AISC 9th Ed. and AISC 10th Ed. of the Standard Specifications and the
requirements for Payment of Structural Steel.
Structural steel shall be fabricated in the shop under the supervision of the
contractor and shall be checked and approved by the engineer before being
shipped to the site.
All reinforcing steel shall conform to ASTM Specifications
for steel-reinforcing steel see Special Provisions.



DL DEFLECTION DIAGRAM

TOTAL BILL OF MATERIAL

ITEM	QUANTITY	UNIT	PRICE	TOTAL
Class X Concrete	152.5	cu. yd.	2.15	327.88
Normal Concrete	2.8	cu. yd.	2.15	6.02
Reinforcing Bars	11,220	lbs.	0.025	280.50
Structural Steel	6,250	lbs.	0.025	156.25
Name Plate	1	ea.		
Removal of Old Super				
Concrete Removal	2.5	cu. yd.	4.15	10.38
Expansion Bolts	20	ea.	1.25	25.00
Class A Steel for Street C.C.	400	lbs.	0.025	10.00
Class B Steel for Street C.C.	175	lbs.	0.025	4.38
Temp. Bridge Camp	1	ea.		
Rem. Temp. Bridge	1	ea.		
Transporting Temp. Bridge				
Bit. Concrete Surface Crse. 1-3		Tons	2.15	

STATION 1878+10
BUILT 1952 BY
STATE OF ILLINOIS
S.B.I. RT. 25 SEC. 34 BY
F.A. PROJ. F-29(10)
LOADING 1120-516

NAME PLATE
See Sp. 1801

STRESSES
f_c = 1400 P.S.I. SUPER
f_s = 800 P.S.I. SUB.
f_s = 24,000 P.S.I. STEEL
f_s = 18,000 P.S.I. STEEL 5/16"
n = 10 1/20 - 216 - 45 Loading

PROJ. F-29(10)
F.A. RT. 25 (S.B.I. RT. 25) SEC. 34 BY
IROQUOIS COUNTY
STA. 1878+10

DESIGNED: W.A. Jandora
CHECKED: W.E. Hanson
DRAWN: R.A.S.
CHECKED: W.E. Hanson

Nov. 16, 1951

EXAMINED: W.E. Hanson
PASSED: W.E. Hanson
APPROVED: W.E. Hanson

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

FOR INFORMATION ONLY

SCALE: NONE DATE: JULY, 2006

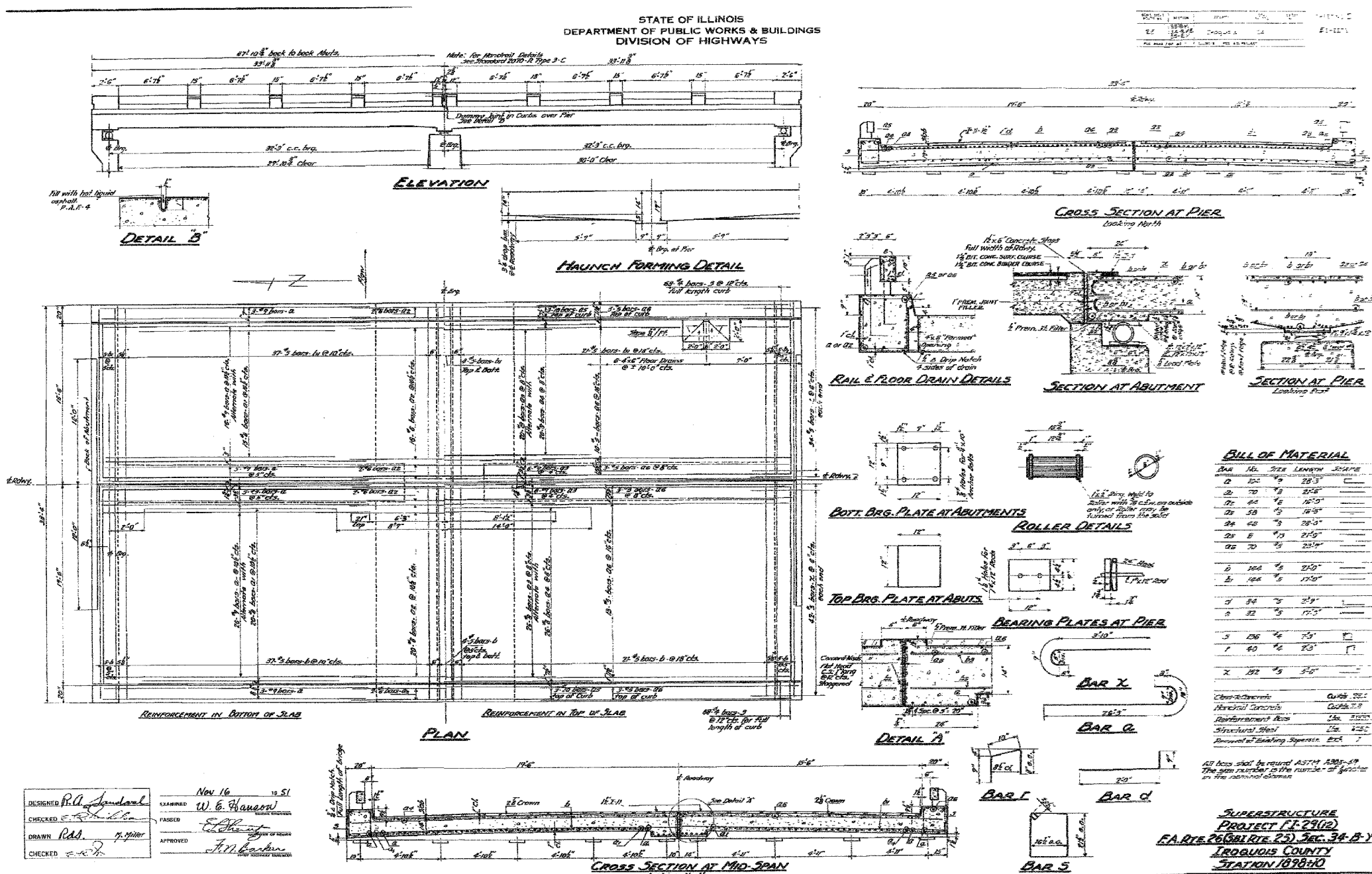
Soodan
Soodan & Associates, Inc.
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 45	34 BR-1	IROQUOIS COUNTY	37	26
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-		

CONTRACT # 66411

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS



BILL OF MATERIAL

BAR NO.	SIZE	LENGTH	SHAPE
1	100	9	28.5"
2	70	9	28.5"
3	64	6	16.5"
4	58	6	16.5"
5	48	9	28.5"
6	8	13	28.5"
7	100	9	28.5"
8	100	9	28.5"
9	34	9	28.5"
10	22	9	17.5"
11	126	6	7.5"
12	40	6	8.0"
13	100	9	28.5"

Cast-in-place Concrete
 Reinforced Concrete
 Reinforcement Bars
 Structural Steel
 Removal of Existing Structure

DESIGNED *R.A. Spindler*
 CHECKED *E.H. ...*
 DRAWN *R.D.S.*
 CHECKED *E.H. ...*

Nov 16 1951
 EXAMINED *W.E. Hanson*
 PASSED *E.H. ...*
 APPROVED *J.M. Barken*

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

FOR INFORMATION ONLY

SCALE: NONE DATE: JULY, 2006

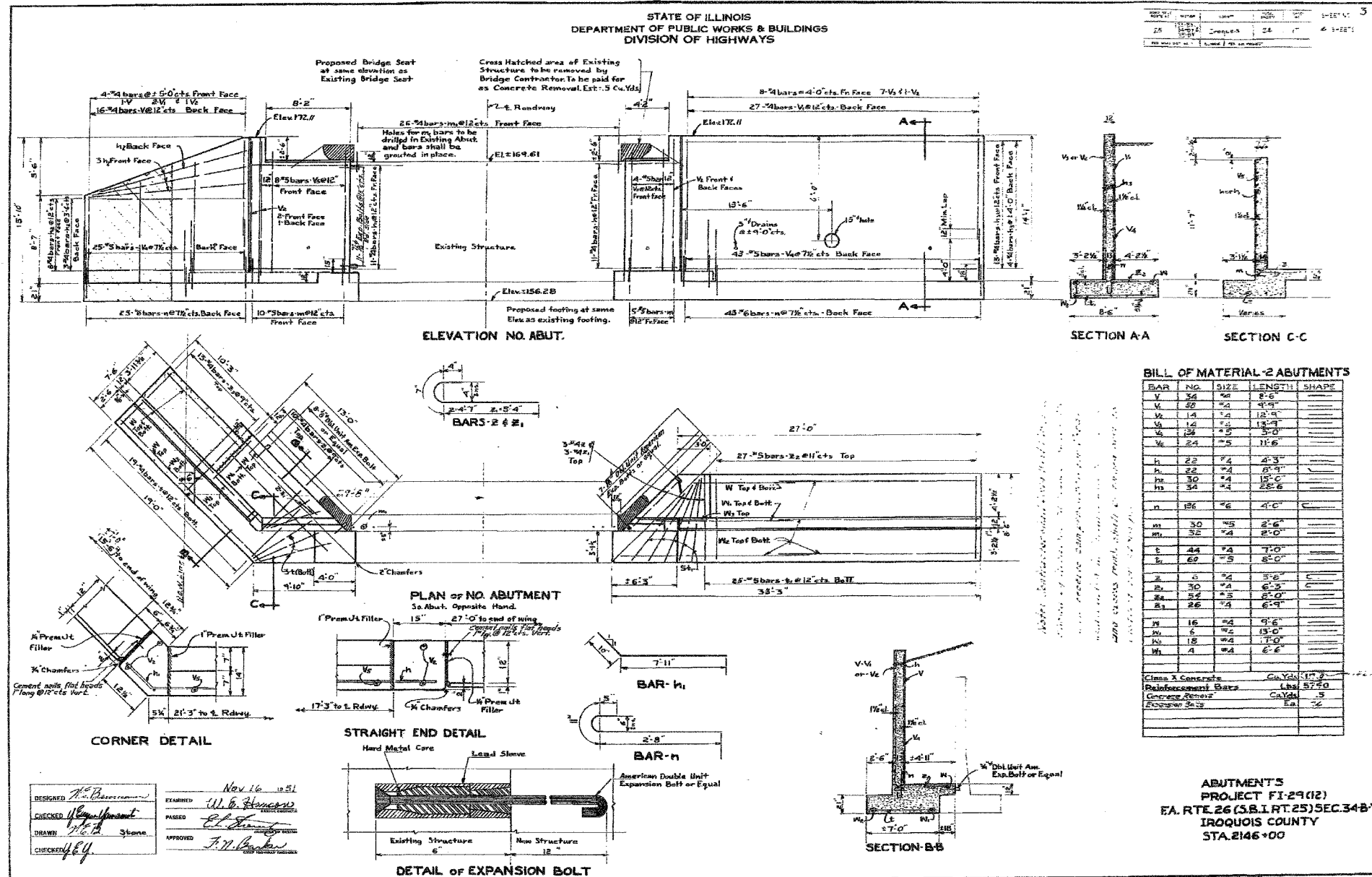
Soodan & Associates, Inc.
 100 North LaSalle Street, Suite 1800
 Chicago, Illinois 60602

SUPERSTRUCTURE PROJECT (E-23)(2)
E.A. DIST. 26 (B.I. DIST. 25) SEC. 34-B-Y
IROQUOIS COUNTY
STATION 1898+00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 45	34 BR-1	IROQUOIS COUNTY	38	27
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

CONTRACT # 66411



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

EXISTING STRUCTURE PLANS
F.A. RT 26 (S.B.I. RT. 25), SECTION 34 B.Y.
IROQUOIS COUNTY
STATION 1725+50

SCALE: NONE DATE: JULY, 2006
Soodan
Soodan & Associates, Inc.
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602

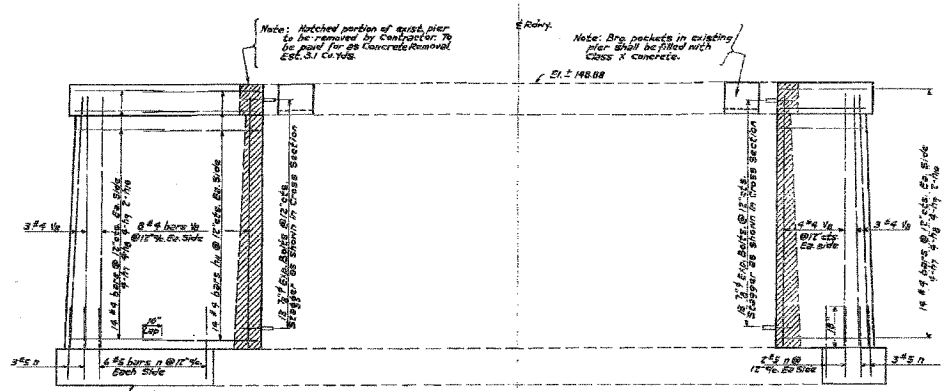
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 45	34 BR-1	IROQUOIS COUNTY	37	29
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

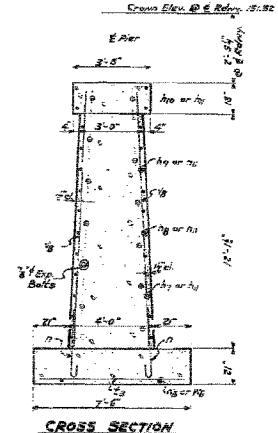
CONTRACT # 66411

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

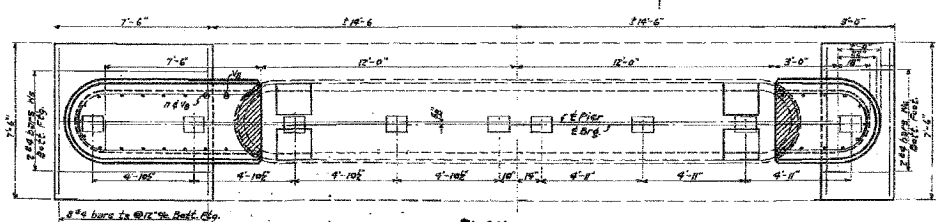
DATE	BY	CHKD.	APP'D.
11-11-51	W. G. Houson	E. L. Thompson	J. N. Campbell



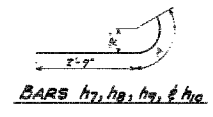
ELEVATION OF PIER
Looking North



CROSS SECTION



PLAN

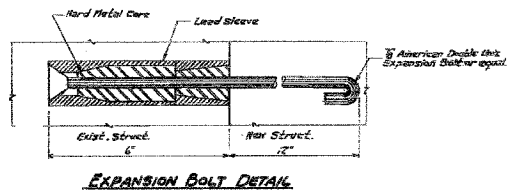


See R	A
h7	20" 2'-0"
h8	18" 2'-0"
h9	18" 2'-0"
h10	18" 2'-0"

BILL OF MATERIAL - PIER

QTY	NO.	SIZE	LENGTH	WEIGHT
1	8	30	6'-0"	
2	16	30	4'-0"	
2	5	30	5'-0"	
1	8	30	6'-0"	
1	22	30	2'-0"	
1	21	30	2'-0"	
1	20	30	2'-0"	
1	18	30	2'-0"	
1	17	30	2'-0"	
1	16	30	2'-0"	
1	15	30	2'-0"	
1	14	30	2'-0"	
1	13	30	2'-0"	
1	12	30	2'-0"	
1	11	30	2'-0"	
1	10	30	2'-0"	
1	9	30	2'-0"	
1	8	30	2'-0"	
1	7	30	2'-0"	
1	6	30	2'-0"	
1	5	30	2'-0"	
1	4	30	2'-0"	
1	3	30	2'-0"	
1	2	30	2'-0"	
1	1	30	2'-0"	

Note: All bars shall be placed as shown. A 30# is the size number is the number of 8 inches in the number of bars.



DESIGNED: R.A. Jandl
CHECKED: W.G. Houson
DRAWN: R.A.S.
CHECKED: E.L.T.
DATE: Nov 16, 1951
APPROVED: J.N. Campbell

PROJ. FI-29(12)
PART 24 (S.A.I. 1725) SEC. 34 BY
IROQUOIS COUNTY
574.1830 110

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

FOR INFORMATION ONLY

SCALE: NONE DATE: JULY, 2006
Soodan
Soodan & Associates, Inc.
100 North LaSalle Street, Suite 1800
Chicago, Illinois 60602

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 45	34 BR-1	IROQUOIS COUNTY	38	30
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-		

CONTRACT # 66411

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

**STA. 1725+50
BUILT 1952 BY
STATE OF ILLINOIS
S.B.I. RTE. 25 SEC. 35-B-Y
F.A. PROJ. F.I. 2-9(12)
LOADING H20-S16**

LETTERING FOR NAME IS
See 513 188

WATERWAY INFORMATION
Drainage Area 87,000 Acres
Character Level, Cultivated
Opening Reg'd 60'-2" Tall 286 Sq. Ft.
Present Opening 75' 3/4" FT.
Proposed Opening 80' 3/4" FT.

GENERAL PLAN & ELEVATION
PROJ. F.I. 2-9 (12)
F.A. RTE. 26 (S.B.I. RTE. 25) SEC. 35-B-Y
IROQUOIS COUNTY
STA. 1725+50

STRESSES
fs = 20,000 psi Rmt.
fc = 1,400 psi Pos Mom
fc = 1,400 psi Neg Mom
n = 10

DETAIL OF PRECAST CONCRETE PILES

GENERAL NOTES
Class X Concrete shall be used throughout, except as noted. Concrete floor slab shall be finished in accordance with Art. 55.2(2) of the Standard Specs. and shall be poured in one continuous operation on either side of the center joint. The falsework on one side of the center joint shall not be removed until after the slab is poured on the other side of the center joint.
Handrail concrete shall be used in rail and posts. Handrail shall not be poured until falsework has been removed. One test pile shall be driven in permanent pile location as directed by the Engineer, before casting piles.
The contract unit price each for "Expansion Bulbs" shall include furnishing, drilling holes and setting Expansion Bulbs.
Contractor shall excavate channel to the cross section shown for a distance of 50' upstream and 50' downstream of E. of Roadway.
With natural steel sheet piling one side each of "Red Lead" paint and two other coats of aluminum paint. A. paint to be furnished and applied by the Contractor.
Scaffolding, bracing, girders, and other one or more side shall be installed, painted, and set in accordance with Art. 54.3(6) and Art. 55.10(6) of the Standard Specifications and are included in the amount as Structural Steel.
Structural Steel shall be inspected by the State's Division of Highway before painting.
See Special Problems for Watercrossing.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL
Class X Concrete	Cu Yds	1,172.5	2.22	2,604.00
Handrail Concrete	Cu Yds	12.5	2.22	27.75
Reinforcement Bars	Lbs	10,000	0.12	1,200.00
Concrete Removal	Cu Yds	1.0	2.00	2.00
16 R.C. Piles (36 Long)	Lin Ft.	216	0.97	210.72
Expansion Bulbs	Each	162	0.07	11.34
Channel Excavation	Cu Yds	26.2	0.00	0.00
Class A Excav. for Str.	Cu Yds	4.88	0.00	0.00
Class B Excav. for Str.	Cu Yds	22.2	0.00	0.00
Test Piles	Each	1	0.00	0.00
Removal of Existing Superstr.	Sq. Ft.	1	0.00	0.00
Removal of Existing Bridge	Sq. Ft.	1	0.00	0.00
Transporting Temp. Bridge	Lump Sum	1	0.00	0.00

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

Nov 16, 1951
W. E. Hanson
J. W. Parker

Rev. 12-10-51 The. Insp. Br. - 5071

H20-36-44 Lon. Sing

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

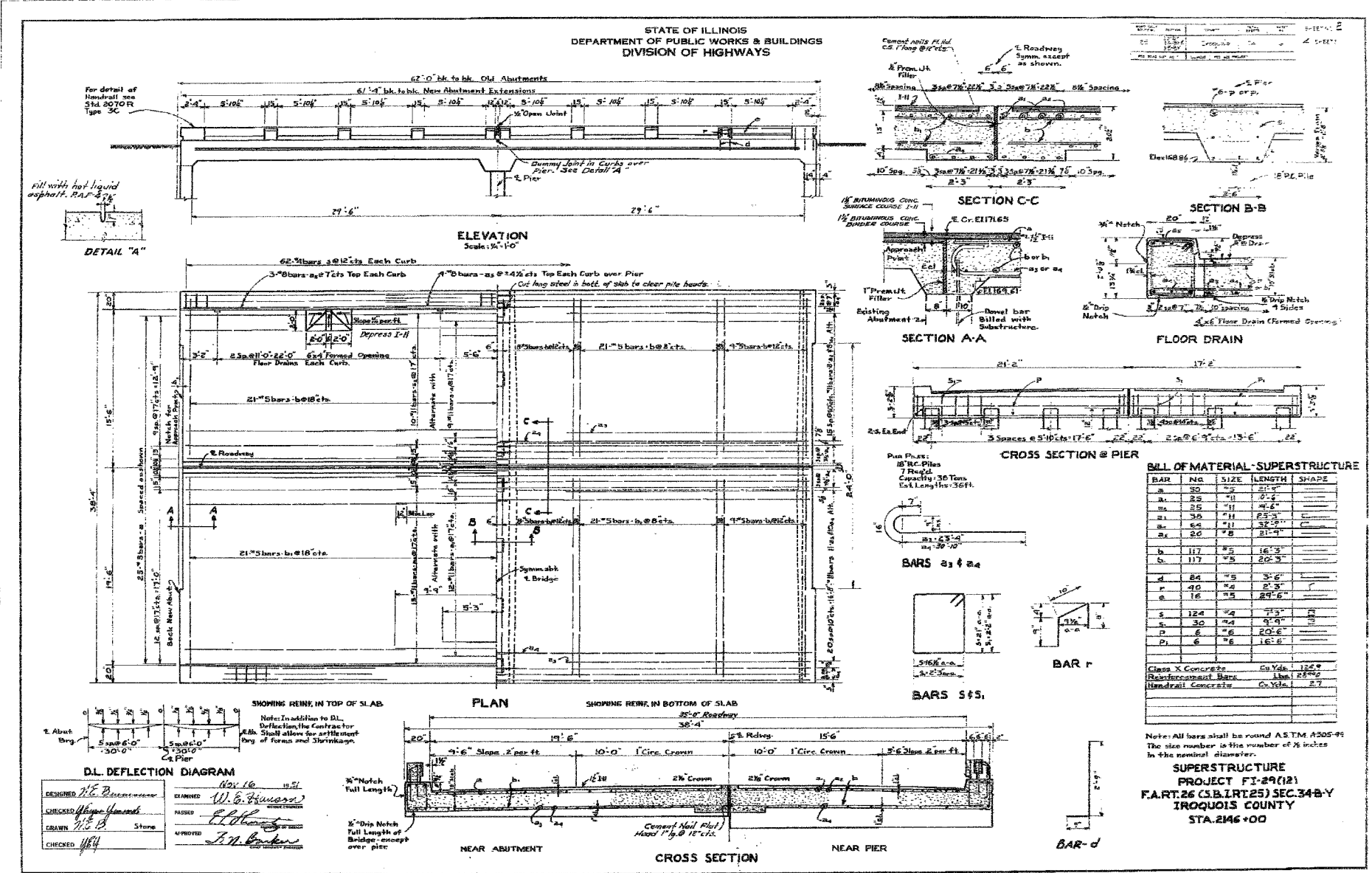
EXISTING STRUCTURE PLANS
F.A. RT 26 (S.B.I. RT. 25), SECTION 34 B.Y.
IROQUOIS COUNTY
STATION 1725+50

SCALE: NONE DATE: JULY, 2006

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 45	34 BR-1	IROQUOIS COUNTY	37	31
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	
CONTRACT # 6641				



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

FOR INFORMATION ONLY

SCALE: NONE

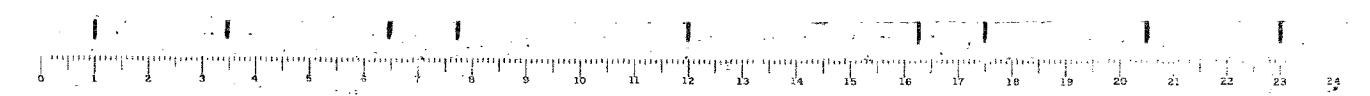
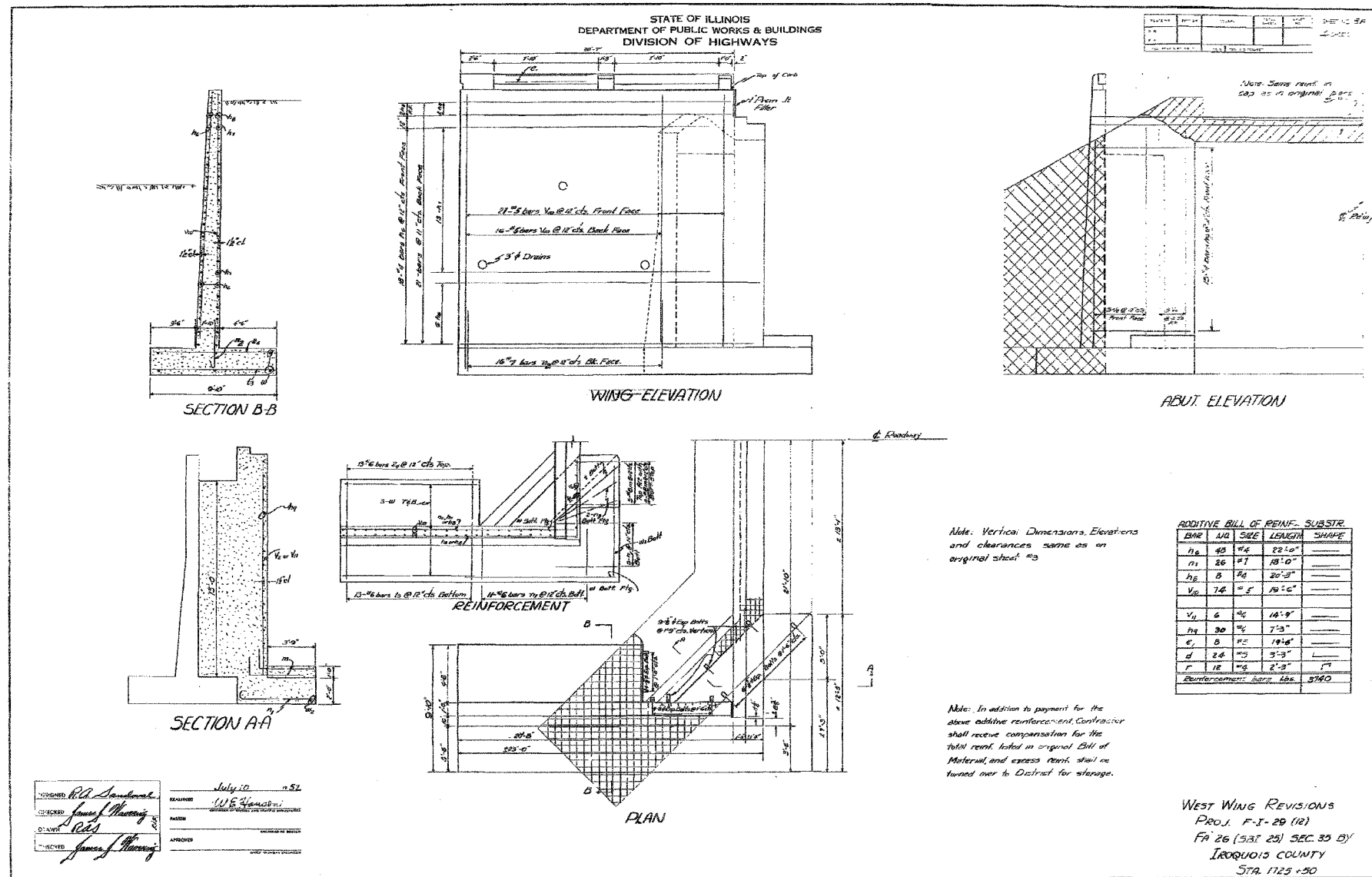
DATE: JULY, 2006

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S. 45	34 BR-1	IROQUOIS COUNTY	38	32
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

CONTRACT • 66411



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

EXISTING STRUCTURE PLANS
F.A. RT 26 (S.B.I. RT. 25), SECTION 34 B.Y.
IROQUOIS COUNTY
STATION 1725+50

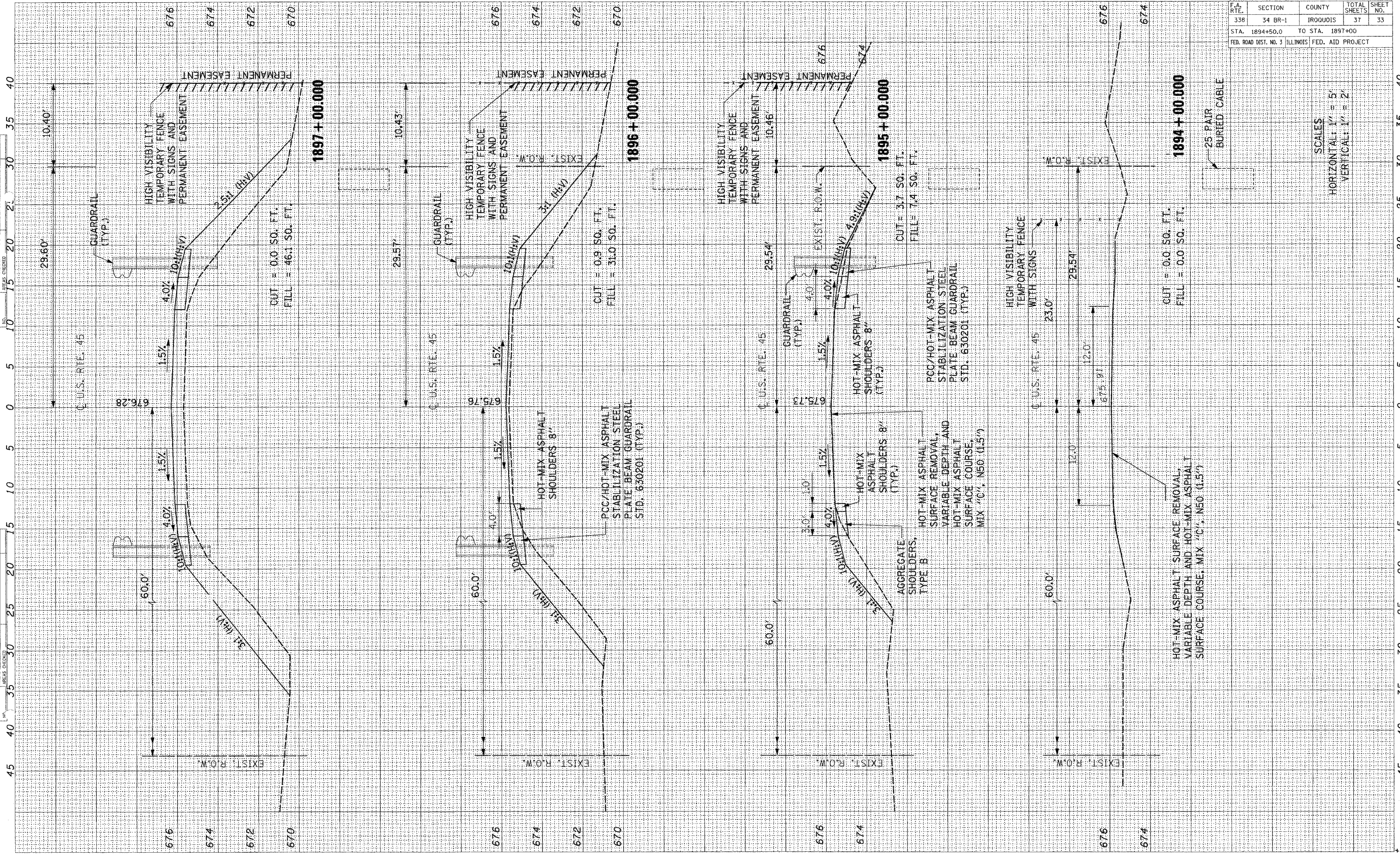
SCALE: NONE DATE: JULY, 2006

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

ORIGINAL SURVEY PLOTTED TEMPLATE
 NO. 10 15 20 25 30 35 40

ORIGINAL SURVEY PLOTTED TEMPLATE
 NO. 10 15 20 25 30 35 40

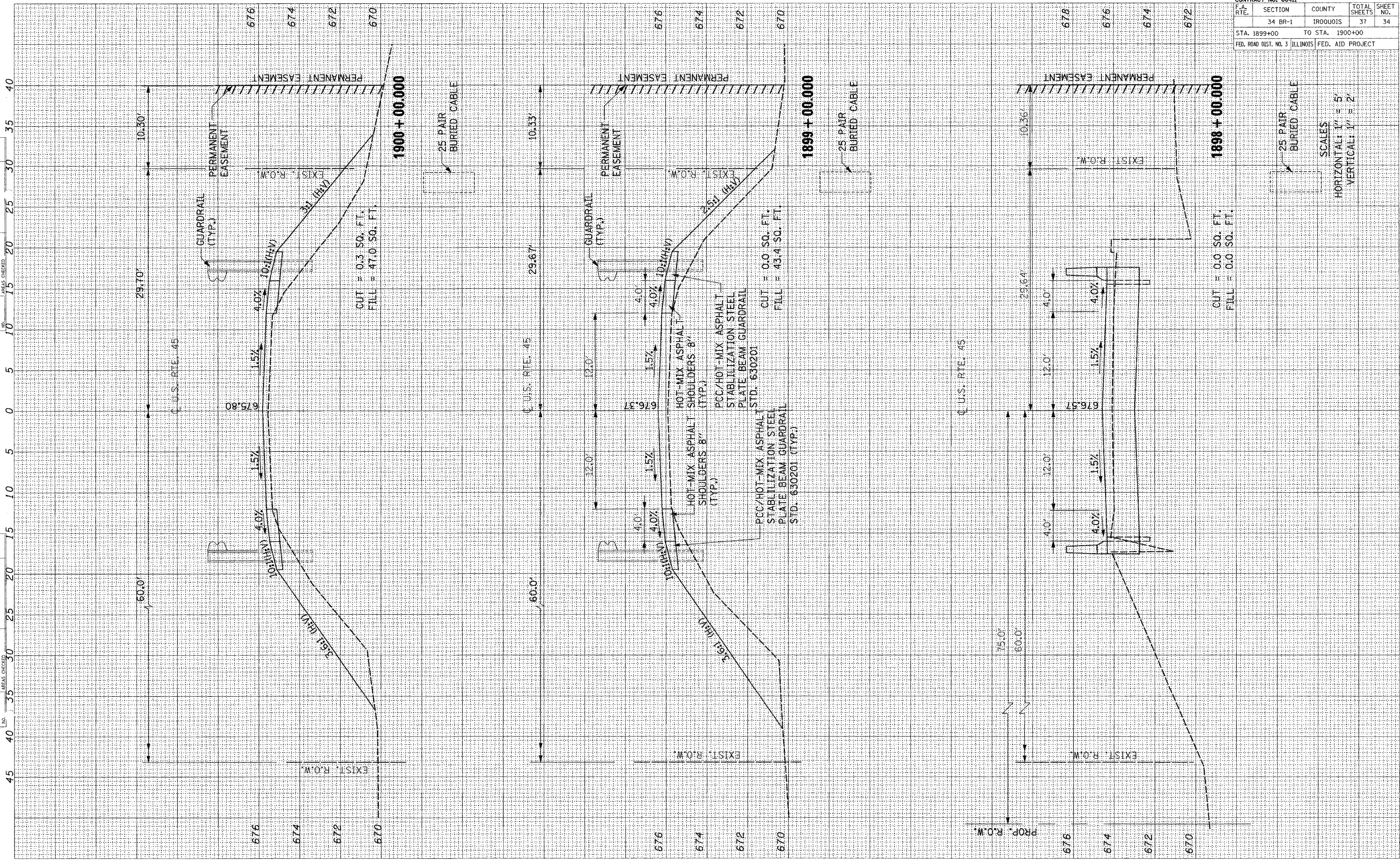
CONTRACT NO. 66411				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	34 BR-1	ILLINOIS	37	33
STA. 1894+50.0		TO STA. 1897+00		
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				



SCALES
 HORIZONTAL: 1" = 5'
 VERTICAL: 1" = 2'

FINAL SURVEYED SURVEY TEMPLATE AREAS CHECKED

FINAL SURVEYED SURVEY TEMPLATE AREAS CHECKED



CONTRACT NO. 66411				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	34 BR-1	IRROOUIS	37	34
STA. 1899+00		TO STA. 1900+00		
FED. ROAD DIST. NO. 3 ILLINOIS		FED. AID PROJECT		

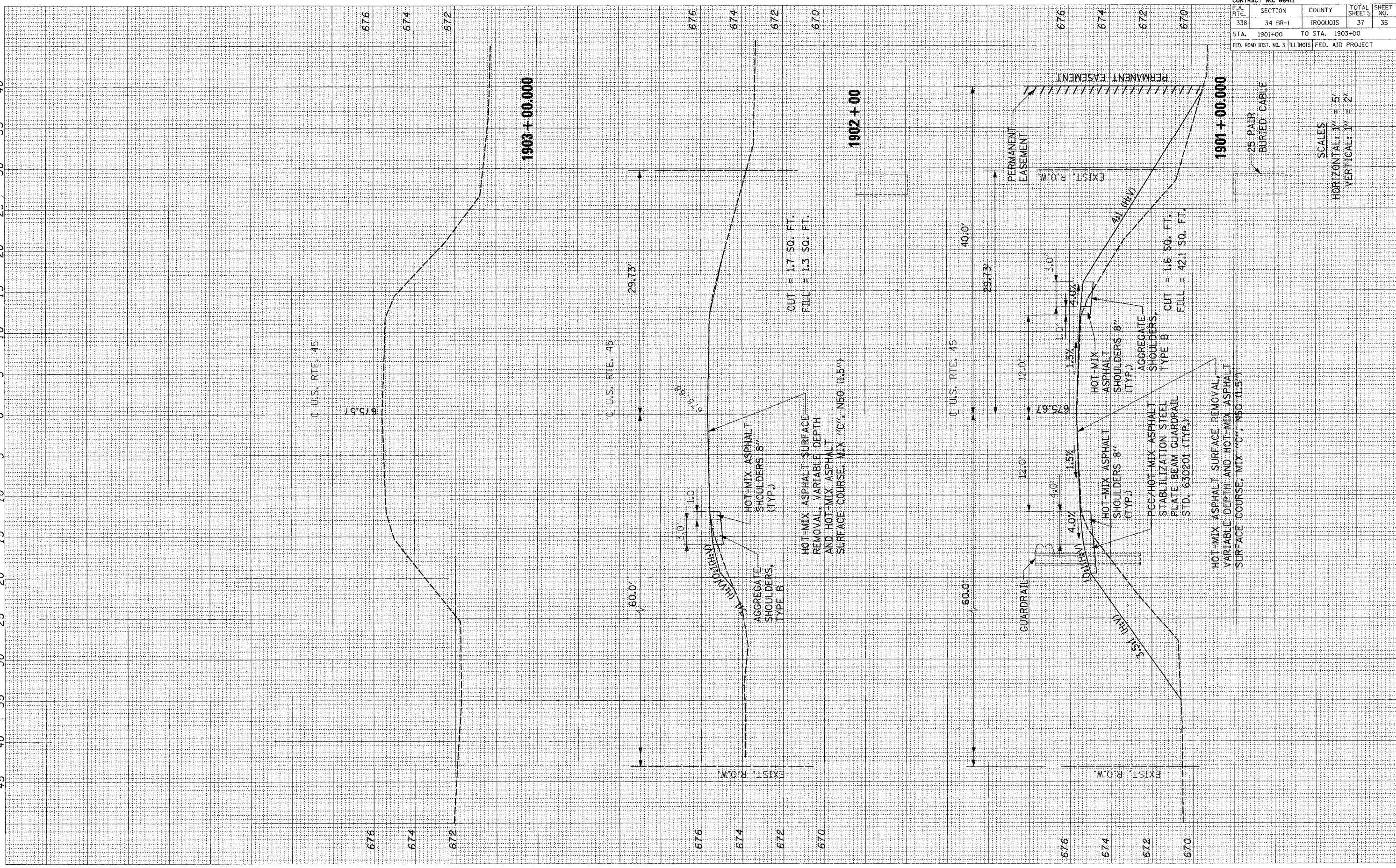
25 PAIR BURIED CABLE

SCALES
HORIZONTAL: 1" = 5'
VERTICAL: 1" = 2'

UNPLANNED SURVEY
 SURVEYED
 PLOTTED
 NOTE BOOK
 TEMPLATE
 AREAS CHECKED

UNPLANNED SURVEY
 SURVEYED
 PLOTTED
 NOTE BOOK
 TEMPLATE
 AREAS CHECKED

45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40



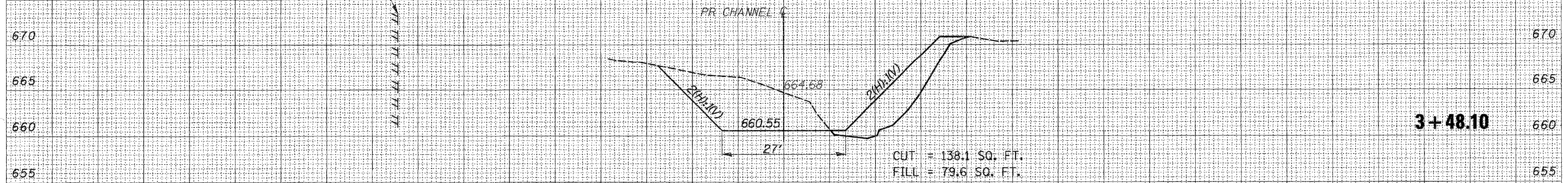
CONTRACT NO. 66411				
F.A. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	34 BR-1	TROQUOIS	37	35
STA. 1901+00		TO STA. 1903+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SCALES
 HORIZONTAL: 1" = 5'
 VERTICAL: 1" = 2'

45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40

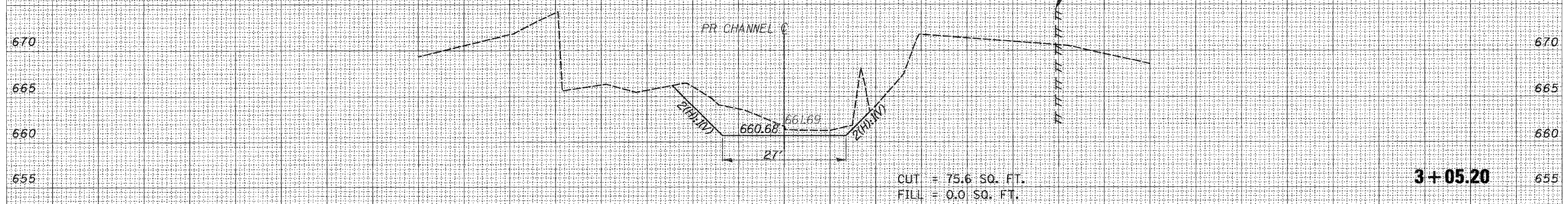
CONTRACT NO. 66411				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	34 BR-1	IROQUOIS	37	36
STA. 2+97.00		TO STA. 3+71.00		
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				

TEMPORARY EASEMENT



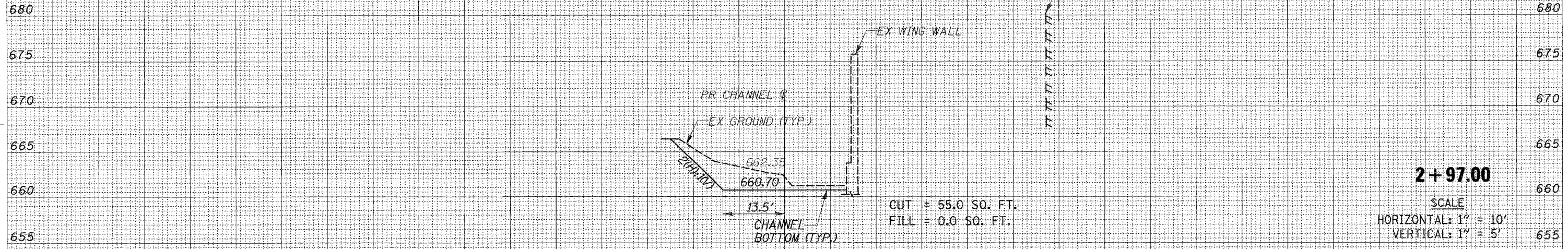
3+48.10

TEMPORARY EASEMENT



3+05.20

TEMPORARY EASEMENT



2+97.00

SCALE
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 5'

CHANNEL CROSS SECTIONS

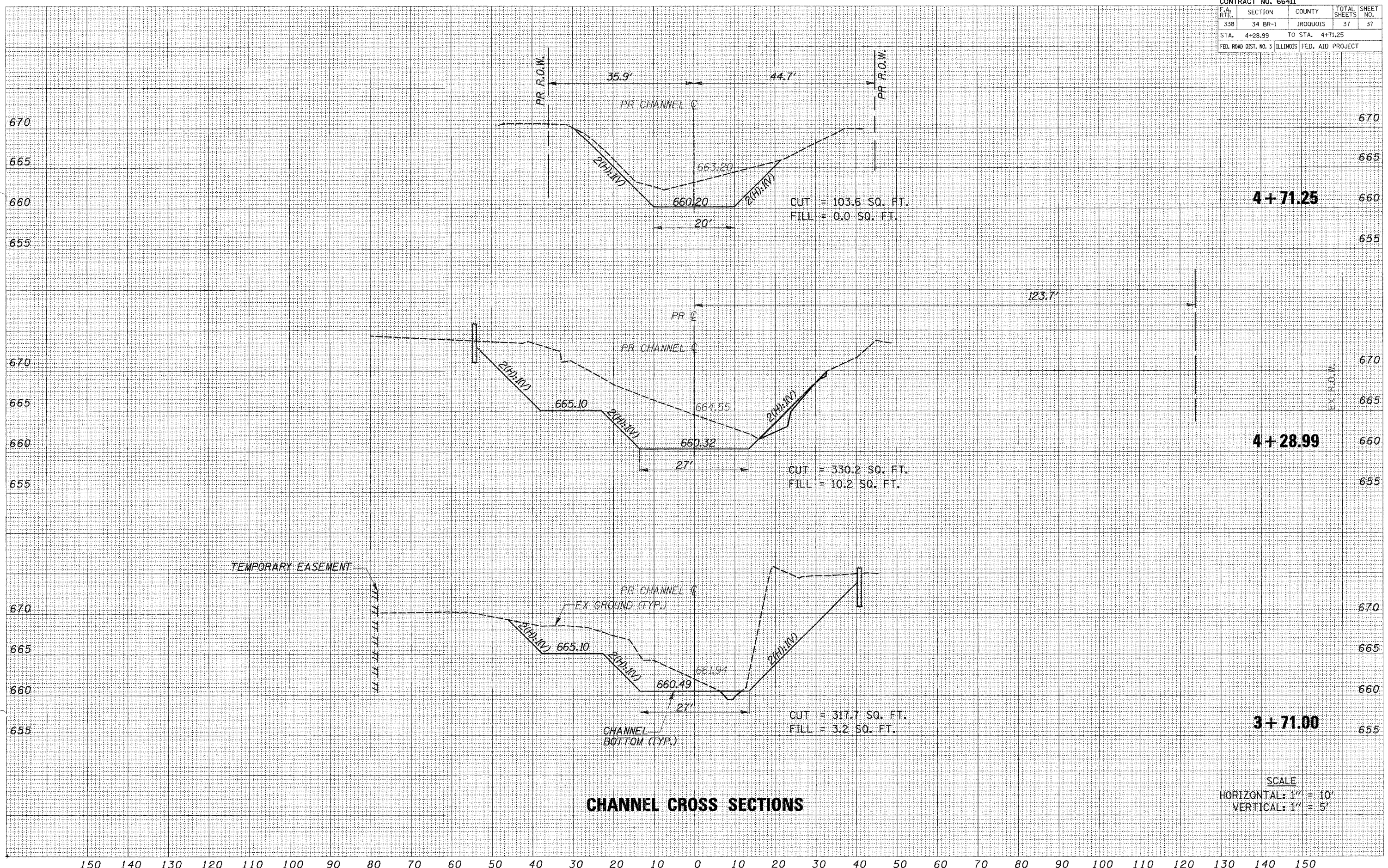
FINAL SURVEY NOTE BOOK NO. _____
 CORRECTED SURVEY NOTE BOOK NO. _____
 PLOTTED TEMPLATE AREAS CHECKED _____

FINAL SURVEY NOTE BOOK NO. _____
 CORRECTED SURVEY NOTE BOOK NO. _____
 PLOTTED TEMPLATE AREAS CHECKED _____

DATE: TIME: _____
 DGN: SPEC: _____

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

CONTRACT NO. 66411				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33B	34 BR-1	IROQUOIS	37	37
STA. 4+28.99	TO STA. 4+71.25			
FED. ROAD DIST. NO. 3		ILLINOIS	FED. AID PROJECT	



CHANNEL CROSS SECTIONS

SCALE
 HORIZONTAL: 1" = 10'
 VERTICAL: 1" = 5'

DESIGNED
 SURVEY
 NOTE BOOK
 AREAS CHECKED

DESIGNED
 SURVEY
 NOTE BOOK
 AREAS CHECKED

DATE: T.M.E.
 DON SPEC