

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0083	02-00270-00-BR	MCHENRY	37	1

CONTRACT NO.: 83872

FOR INDEX OF SHEETS, SEE SHEET 2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

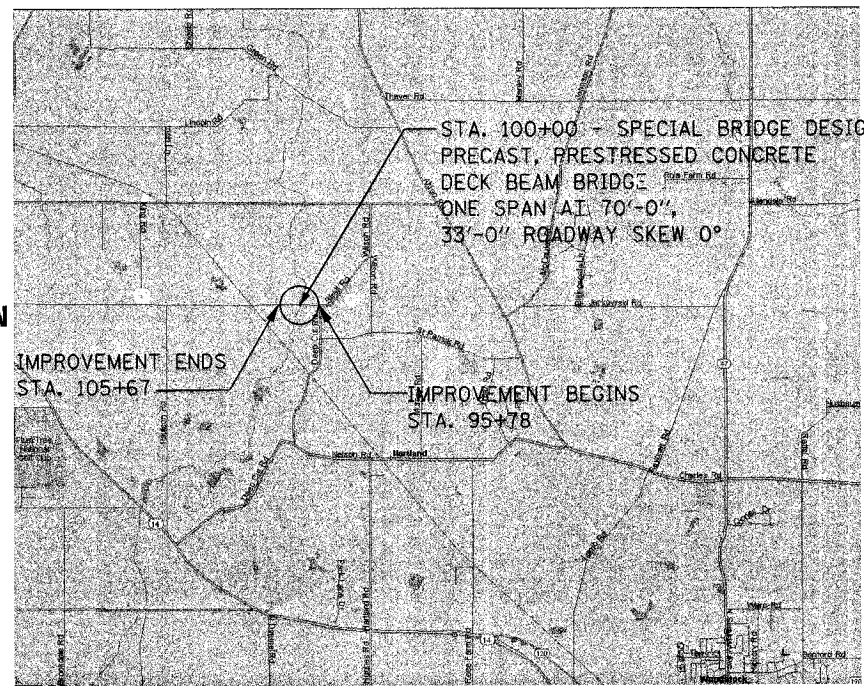
**PLANS FOR PROPOSED
BRIDGE REPLACEMENT AND
REHABILITATION PROGRAM**

TR 0083 (STREIT ROAD) OVER THE NORTH BRANCH OF THE KISHWAUKEE RIVER
PROJECT NO.: BROS-0111(041)
SECTION NO.: 02-00270-00-BR
JOB NO.: C-91-319-02
STRUCTURE NO. 056-3171 (PROPOSED) 056-3067 (EXISTING)
MCHENRY COUNTY

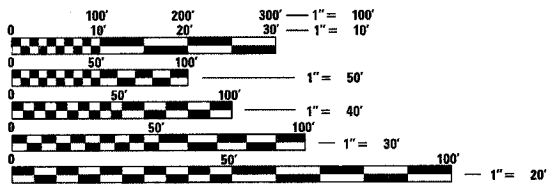
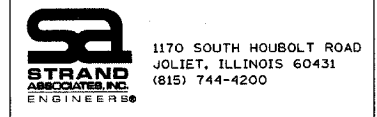


IDOT FEDERAL AID DESIGN ENGINEER: JESSICA MILLER 847-705-4487 SCHAUMBURG, IL

R.6E



ADT (2030) = 600
POSTED SPEED = 55 MPH
DESIGN SPEED = 55 MPH



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

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

CONTRACT NO. 83872

MAP NOT TO SCALE

GROSS PROJECT LENGTH: 898 FEET = 0.19 MILES
NET PROJECT LENGTH: 898 FEET = 0.19 MILES

STRAND ASSOCIATES, INC.
ANTHONY J. STANDISH, P.E. S.E.
THIS STAMP APPLIES TO DRAWINGS:

DATE: 8-7-2006 EXP: 11/2007

AGENCY RESPONSIBLE FOR LETTING	
APPROVED	<u>Joseph F. Kopalaki Jr.</u> August 4, 2006 DIRECTOR OF TRANSPORTATION/COUNTY ENGINEER
PASSED	<u>SEPTEMBER 5, 2006</u> <u>Christopher Holt</u> DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW	<u>Sept 11, 2006</u> <u>Diane O'Keefe/Caj</u> DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0083 02-00270-00-BR		MCHENRY	37	2
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO.: 83872				

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1	COVER SHEET
2	INDEX OF SHEETS/GENERAL NOTES
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8	SCHEDULES OF QUANTITIES
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10	ALIGNMENT AND BENCHMARKS
11-13	PLAN AND PROFILE SHEETS
14	DETOUR SIGNING
15	DETOUR PLAN
16-17	EROSION AND SEDIMENT CONTROL PLAN
18-22	RIGHT-OF-WAY PLAT
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24	SUPERSTRUCTURE PLAN AND DETAILS
25	SUPERSTRUCTURE
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515001-02	NAME PLATE FOR BRIDGES
601101	CONCRETE HEADWALL FOR PIPE DRAIN
630001-06	STEEL PLATE BEAM GUARD RAIL
630201-03	PCC/BITUMINOUS STABILIZATION AT STEEL BEAM GUARDRAIL
630301-03	SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
631011-02	TRAFFIC BARRIER TERMINAL, TYPE 2
631032-02	TRAFFIC BARRIER TERMINAL, TYPE 6A
635006-02	REFLECTOR & TERMINAL MARKER PLACEMENT
635011-01	REFLECTOR MARKING & MOUNTING DETAILS
702001-06	TRAFFIC CONTROL DEVICES

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BD 32	BUTT JOINT AND BITUMINOUS TAPER
BD 34	DETAILS FOR STEEL PLATE BEAM GUARDRAIL ADJACENT TO CURB AND GUTTER STABILIZATION AT TBT TY 1 SPL.
BD 51	BENCHING DETAIL FOR EMBANKMENT WIDENING
TC 22	TEMPORARY INFORMATION SIGNING

BUREAU OF LOCAL ROADS STANDARDS


BLR 21-6	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 22-4	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO-LANE TWO WAY RURAL TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC)
BLR 25	TYPE 1A BARRICADE FOR NON-NHS ROUTES

GENERAL NOTES

- ALL CLEARING AND GRUBBING AND REMOVAL OF EXISTING DRAINAGE STRUCTURES AND PIPES ENCOUNTERED ARE TO BE INCLUDED IN THE UNIT PRICE BID FOR EARTH EXCAVATION EXCEPT AS NOTED ON THE PLANS.
- THE LOCATIONS AND ELEVATION OF THE VARIOUS UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL USE SPECIAL CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR THEM AND IS RESPONSIBLE FOR ANY DAMAGE THAT MAY BE CAUSED. PLEASE REFER TO THE SPECIAL PROVISIONS FOR COOPERATION WITH UTILITIES (LR 105) IN THE SPECIAL PROVISIONS SECTION OF THE CONTRACT.
- 48 HOURS PRIOR TO THE START OF ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. FOR VERIFICATION OF ALL UTILITY LOCATIONS IN THE FIELD.
- THE CONTRACTOR SHALL COORDINATE WITH ALL ABOVE AND UNDERGROUND UTILITY COMPANIES IF UTILITIES NEED TO BE RELOCATED.
- WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUB-SECTION MONUMENTS DISRUPTED BY HIS/HER OPERATIONS.
- THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT-OF-WAY AS DIRECTED BY THE ENGINEER. SEEDING SHALL BE PLACED WITHIN 7 DAYS OF THE CESSATION OF EARTHWORK.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES

BITUMINOUS CONCRETE	112 LB./IN./SQ.YD
AGGREGATE SHOULDERS, TYPE B	2.05 TON/CU.YD
BITUMINOUS MATERIALS (PRIME COAT)	0.10 GAL/SQ YD
- ALL AGGREGATES SHALL BE 100% CRUSHED MATERIAL.
- ALL EXISTING TOPSOIL WITHIN THE LIMITS OF EARTH EXCAVATION AND/OR EMBANKMENT SHALL BE STRIPPED, STOCKPILED AND RESPREAD. THIS WORK SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE STANDARD SPECIFICATIONS.
- BARRICADES: ALL UNBALLASTED TYPE I AND TYPE II BARRICADES SHALL HAVE A MINIMUM OF TWO (2) SANDBAGS ON THE BOTTOM RAIL. A TYPE III BARRICADE SHALL REQUIRE A MINIMUM OF FOUR (4) SANDBAGS.
- THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN ACCESS TO ALL PRIVATE AND COMMERCIAL PROPERTIES AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- POROUS GRANULAR EMBANKMENT, SUBGRADE (PGE) HAS BEEN PROVIDED FOR SOILS THAT TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR THE REMOVAL AND REPLACEMENT WITH PGE WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. IF UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY WILL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR.

NOTE: BOXED NOTES ARE INCIDENTAL ITEMS

	REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION INDEX OF SHEETS/GENERAL NOTES T.R. 0083 (STREIT ROAD) OVER NORTH BRANCH OF THE KISHWAUKEE RIVER T.R. 0083 SECTION 02-00270-00-BR MCHENRY COUNTY STATION 100+00 S.N. 056-3067
	NAME	DATE	
SCALE: VERT.	DRAWN BY JBH		
DATE 8/23/2006	CHECKED BY		

DATE: 8/23/06

DATE: 8/23/06

DATE: 8/23/06

TIME: 8:03 AM

DATE: 9/28/06

FILE NAME: \\D:\BP1-821\002\PROJECT\SUBCONTRACTORS\summary of quantities.dgn

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0083 02-00270-00-BR	McHENRY		37	3
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO.: 83872				

SCHEDULE OF QUANTITIES

CODE NO.	ITEM	UNIT	X081-2A QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	20
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	78
20101700	SUPPLEMENTAL WATERING	UNIT	3
20200100	EARTH EXCAVATION	CU YD	547
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	100
20400800	FURNISHED EXCAVATION	CU YD	2582
20700400	POROUS GRANULAR EMBANKMENT (SPECIAL)	CU YD	240
20700420	• POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	100
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	7425
21400100	• GRADING AND SHAPING DITCHES	FOOT	1978
25000314	△ SEEDING, CLASS 4B	ACRE	0.65
25001020	△ SEEDING, CLASS 2A (SPECIAL)	ACRE	0.73
28000255	TEMPORARY EROSION CONTROL SEEDING	ACRE	0.5
28000300	TEMPORARY DITCH CHECKS	EACH	8
28000400	PERIMETER EROSION BARRIER	FOOT	2060
28100107	STONE RIP RAP, CLASS A4	SQ YD	442
28200200	FILTER FABRIC	SQ YD	442
31101600	SUB-BASE GRANULAR MATERIAL, TYPE B, 8"	SQ YD	2417
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	484
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	12
42001300	PROTECTIVE COAT	SQ YD	260
42001400	• BRIDGE APPROACH PAVEMENT (SPECIAL)	SQ YD	214
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR, FLEXIBLE	SQ YD	44
44000030	• BITUMINOUS SURFACE REMOVAL (VAR. DEPTH)	SQ YD	2110
48101498	AGGREGATE SHOULDERS, TYPE B, 4"	SQ YD	464
50100100	• REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	272
50300225	CONCRETE STRUCTURES	CU YD	39
50300260	BRIDGE DECK GROOVING	SQ YD	260
50301100	• CONCRETE WEARING SURFACE	CU YD	40

			X081-2A
50400605	PRECAST PRESTRESSED CONCRETE DECK BEAM (33" DEPTH)	SQ FT	2300
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	7300
50901005	STEEL RAILING, TYPE SM	FOOT	140
51201710	FURNISH STEEL PILES HP 12x84	FOOT	1120
51202700	DRIVING STEEL PILES	FOOT	1120
51203710	TEST PILE HP 12x84	EACH	2
51500100	NAME PLATES	EACH	1
54201480	PIPE CULVERTS, TYPE 2, CORRUGATED STEEL OR ALUMINUM CULVERT PIPE, 15"	FOOT	41
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	70
60109580	PIPE UNDERDRAIN FOR STRUCTURES, 4"	FOOT	183
63000000	△ STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	620
63100045	△ TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2
63100087	* △ TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
63100167	△ TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)	EACH	2
67100100	• MOBILIZATION	L SUM	1
70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	1
78200400	△ GUARD RAIL REFLECTORS	EACH	12
78201000	△ TERMINAL MARKER - DIRECT APPLIED	EACH	4
54210015	PIPE CULVERTS, CLASS D, TYPE 1 15" (TEMPORARY)	FOOT	41
A2000716	△ TREE, ACER PLATANOIDES COLUMNARE, (COLUMNAR NORWAY MAPLE), 2" CALIPER BALLED AND BURLAPPE	EACH	1
A2002916	△ TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED	EACH	2
A2007116	△ TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	1
LR212000	• SHAPING ROADWAY	UNIT	10
X0322256	• TEMPORARY INFORMATION SIGNING	SQ FT	32
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX"C", N50	TON	271
X4066614	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N50	TON	305
XX006498	TREE PROTECTION AND PRESERVATION	EACH	4
XX005369	• TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	L SUM	1
XX006339	• FENCE TO BE REMOVED AND REPLACED	FOOT	1350
Z0005215	BITUMINOUS STABILIZATION 6" AT STEEL PLATE BEAM GUARDRAIL	SQ YD	740
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0019600	• DUST CONTROL WATERING	UNIT	5

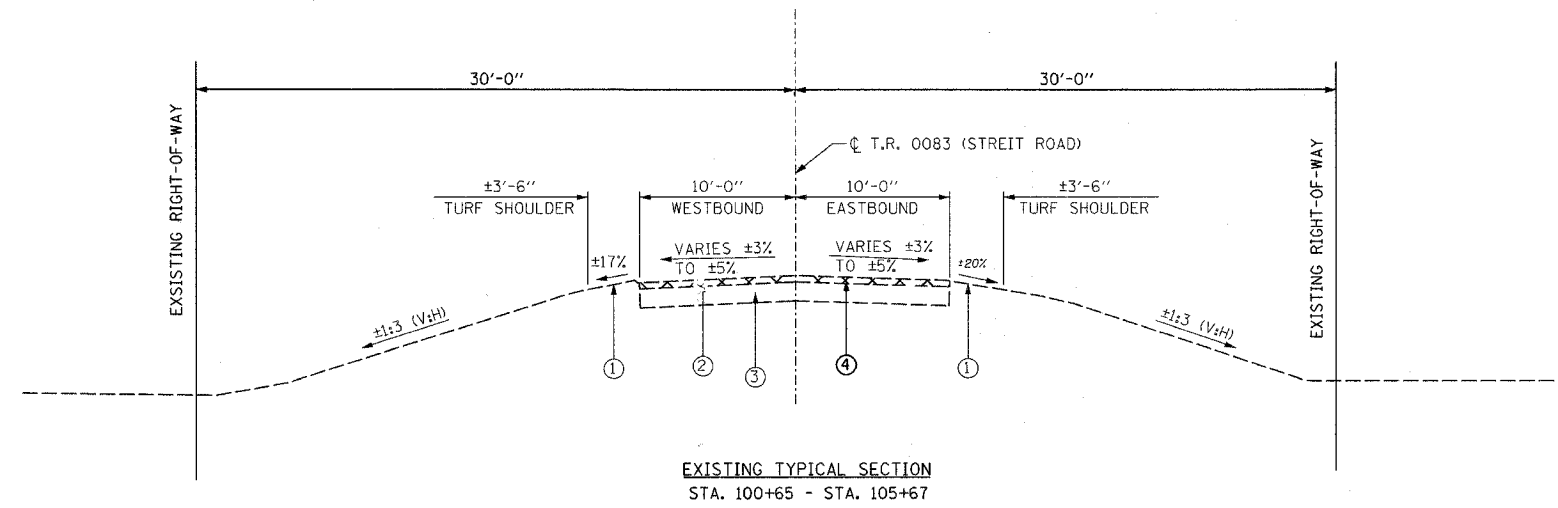
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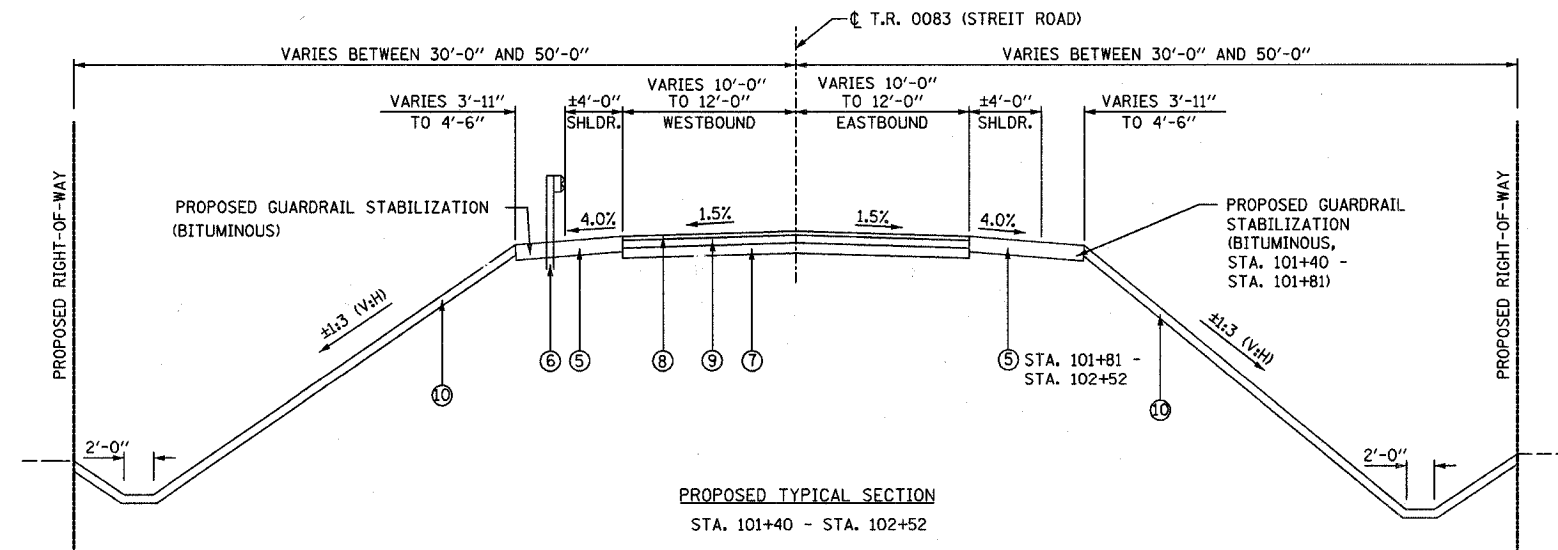
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION	
SUMMARY OF QUANTITIES	
T.R. 0083 (STREIT ROAD) OVER	
NORTH BRANCH OF THE KISHWAUKEE RIVER	
T.R. 0083 SECTION 02-00270-00-BR	
McHENRY COUNTY	
S.N. 056-3067	
SCALE: VERT.	DRAWN BY JBH
HORIZ.	CHECKED BY AJS
DATE 9/28/2006	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0083 02-00270-00-BR		MCHENRY	37	4
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO.: 83872				



- LEGEND**
- ① EXISTING TURF SHOULDER
 - ② EXISTING BITUMINOUS CONCRETE (VARIES BETWEEN 1.5" AND 2.5")
 - ③ EXISTING AGGREGATE BASE COURSE, 8"
 - ④ BITUMINOUS SURFACE REMOVAL (VARIED DEPTH)
 - ⑤ PROPOSED AGGREGATE SHOULDER, TYPE B, 4" MIN.
 - ⑥ STEEL PLATE BEAM GUARDRAIL, TYPE A
 - ⑦ SUB-BASE GRANULAR MATERIAL, TYPE B, 8" MIN.
 - ⑧ BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50, 2"
 - ⑨ BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N50, 2.25"
 - ⑩ TOPSOIL, FURNISH AND PLACE, 4"



STRUCTURAL PAVEMENT DESIGN INFORMATION

(IN ACCORDANCE WITH IDOT LOCAL ROADS.)

STRUCTURAL DESIGN TRAFFIC:
 DESIGN YEAR: 2030
 DESIGN YEAR ADT: 600
 88% P.V., 7.0% S.U., 5.0% M.U.

ROAD/STREET CLASSIFICATION: CLASS III
 TRAFFIC FACTOR: 0.131
 SUBGRADE SUPPORT RATING: POOR
 STRUCTURAL NUMBER, D_t = 2.5

PAVEMENT STRUCTURE MATERIALS:
 SURFACE COURSE TYPE: BITUMINOUS; a₁ = 0.44
 BASE COURSE TYPE: BITUMINOUS; a₂ = 0.33
 SUBBASE TYPE: AGGREGATE (CRUSHED); a₃ = 0.11

BITUMINOUS MIXTURE - CONTROL TABLE

MIXTURE USE	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N50	BITUMINOUS STABILIZATION 6" AT STEEL PLATE BEAM GUARDRAIL
AC	PG 64-22	PG 58-22	PG 58-22
RAP % (MAX)	15%	25%	25%
PERCENT AIR VOIDS	4.0% @ 50 GYR	4.0% @ 50 GYR	4.0% @ 50 GYR

NOTE: SURFACE AND BINDER INCLUDES SHOULDER
 NOTE: THE UNIT WEIGHT USED TO CALCULATE BITUMINOUS SURFACE MIXTURE IS 112 LB./SQ. YD. PER INCH THICKNESS

REVISIONS	
NAME	DATE

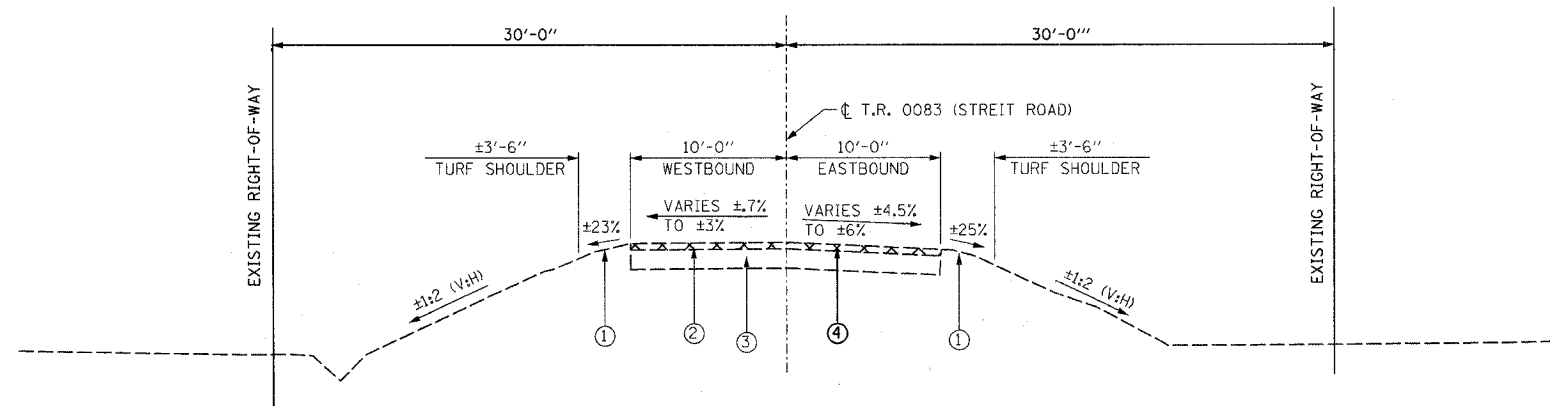
ILLINOIS DEPARTMENT OF TRANSPORTATION
 TYPICAL WEST APPROACH SECTIONS
 T.R. 0083 (STREIT ROAD) OVER
 NORTH BRANCH OF THE KISHWAUKEE RIVER
 T.R. 0083 SECTION 02-00270-00-BR
 MCHENRY COUNTY
 S.N. 056-3067

SCALE: VERT. _____
 HORIZ. _____
 DATE: 8/8/2006

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 CHECKED BY: AJS

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 DATE: _____
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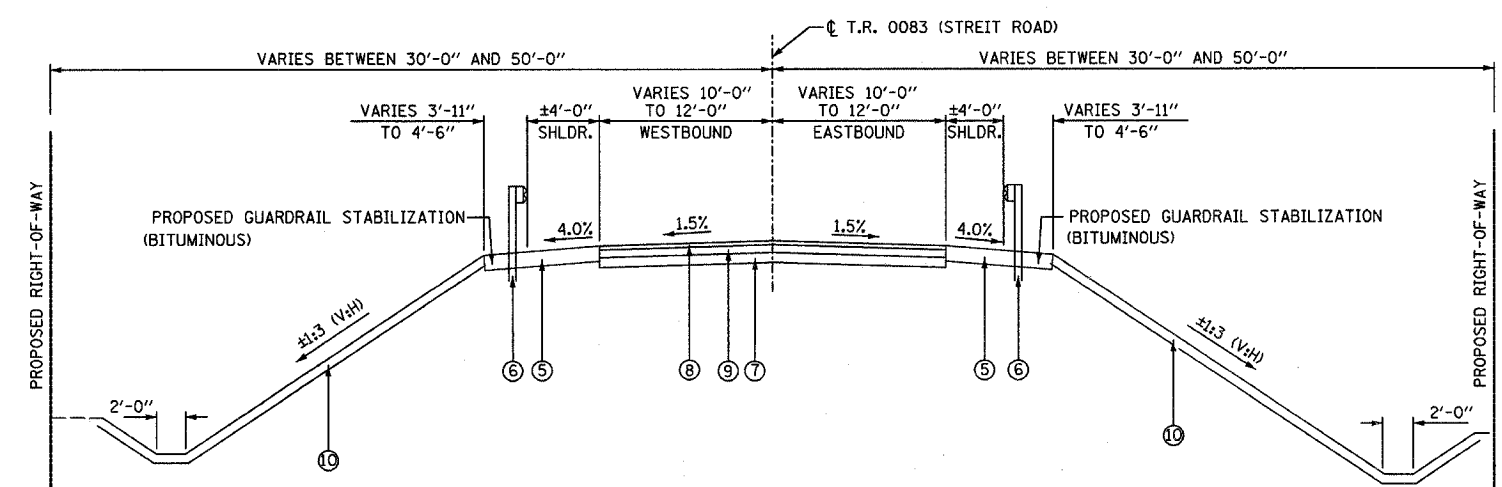
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0083 02-00270-00-BR		MCHENRY	37	5
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO.: 83872				



EXISTING TYPICAL SECTION
STA. 95+78 - STA. 99+35

LEGEND

- ① EXISTING TURF SHOULDER
- ② EXISTING BITUMINOUS CONCRETE (VARIES BETWEEN 1.5" AND 2.5")
- ③ EXISTING AGGREGATE BASE COURSE, 8"
- ④ BITUMINOUS SURFACE REMOVAL (VARIED DEPTH)
- ⑤ PROPOSED AGGREGATE SHOULDER, TYPE B, 4" MIN.
- ⑥ STEEL PLATE BEAM GUARDRAIL, TYPE A
- ⑦ SUB-BASE GRANULAR MATERIAL, TYPE B, 8" MIN.
- ⑧ BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50, 2"
- ⑨ BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N50, 2.25"
- ⑩ TOPSOIL, FURNISH AND PLACE, 4"



PROPOSED TYPICAL SECTION
STA. 98+60 - STA. 99+35
STA. 100+65 - STA. 101+40

STRUCTURAL PAVEMENT DESIGN INFORMATION

(IN ACCORDANCE WITH IDOT LOCAL ROADS.)

STRUCTURAL DESIGN TRAFFIC:
DESIGN YEAR: 2030
DESIGN YEAR ADT: 600
88% P.V., 7.0% S.U., 5.0% M.U.

ROAD/STREET CLASSIFICATION: CLASS III
TRAFFIC FACTOR: 0.131
SUBGRADE SUPPORT RATING: POOR
STRUCTURAL NUMBER, D+ = 2.5

PAVEMENT STRUCTURE MATERIALS:
SURFACE COURSE TYPE: BITUMINOUS; a1 = 0.44
BASE COURSE TYPE: BITUMINOUS; a2 = 0.33
SUBBASE TYPE: AGGREGATE (CRUSHED); a3 = 0.11

BITUMINOUS MIXTURE - CONTROL TABLE

MIXTURE USE	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N50	BITUMINOUS STABILIZATION 6" AT STEEL PLATE BEAM GUARDRAIL
AC	PG 64-22	PG 58-22	PG 58-22
RAP % (MAX)	15%	25%	25%
PERCENT AIR VOIDS	4.0% @ 50 GYR	4.0% @ 50 GYR	4.0% @ 50 GYR

NOTE: SURFACE AND BINDER INCLUDES SHOULDER
NOTE: THE UNIT WEIGHT USED TO CALCULATE BUTUMINOUS SURFACE MIXTURE IS 112 LB./SQ. YD. PER INCH THICKNESS

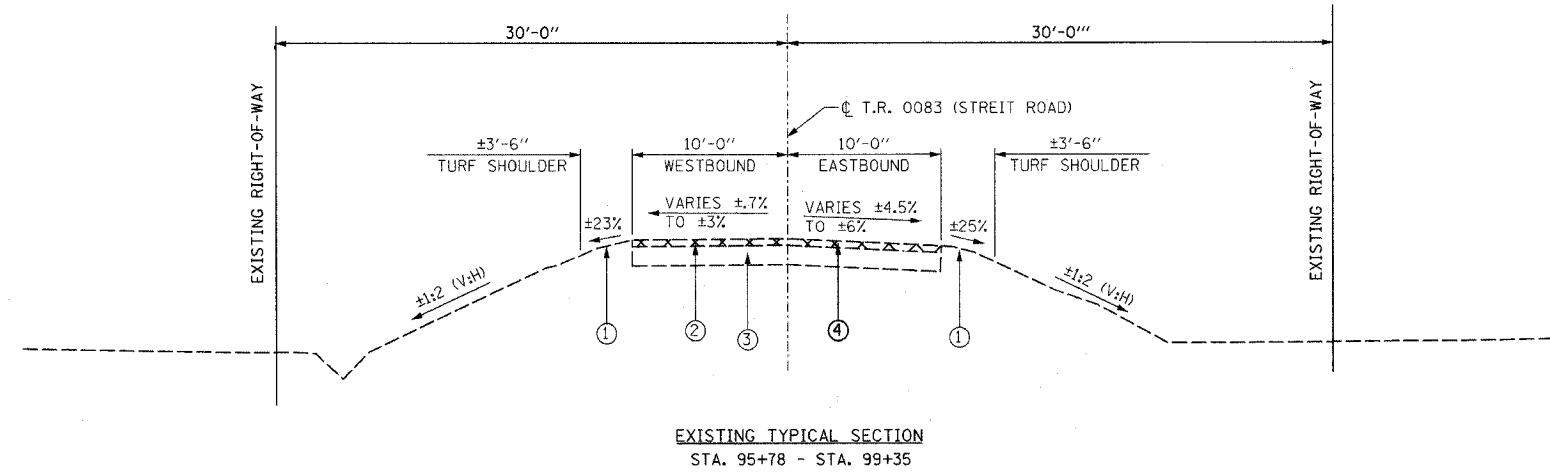
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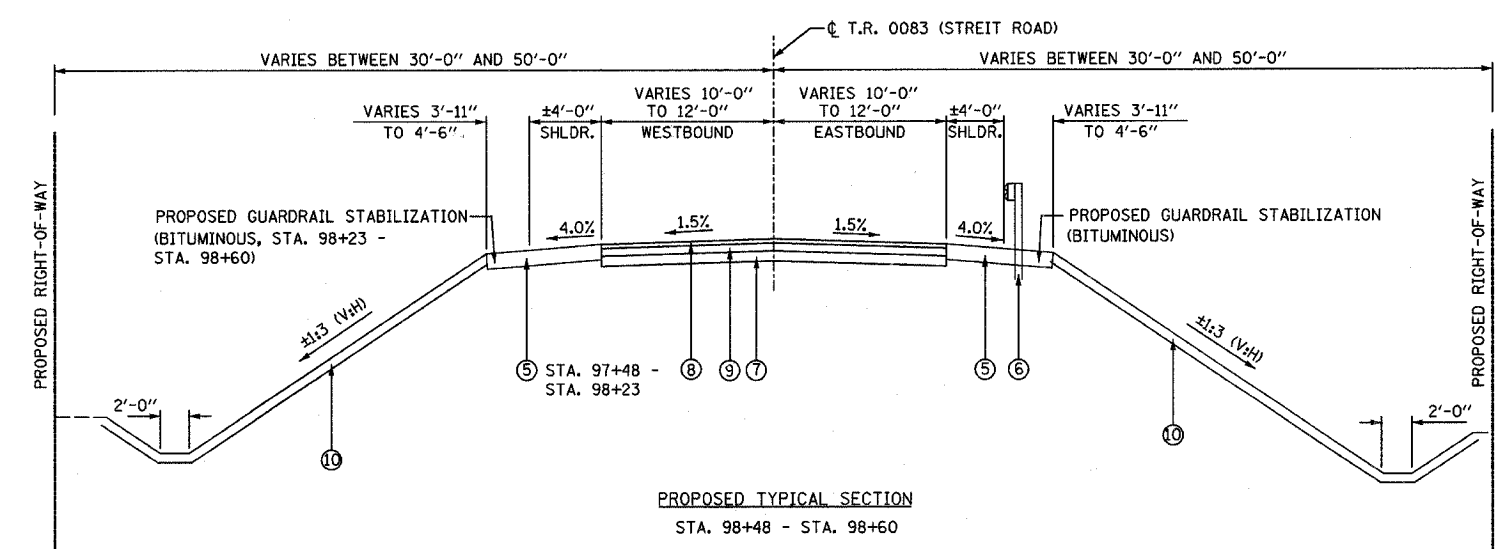
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REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION TYPICAL WEST APPROACH SECTIONS T.R. 0083 (STREIT ROAD) OVER NORTH BRANCH OF THE KISHAWKEE RIVER T.R. 0083 SECTION 02-00270-00-BR MCHENRY COUNTY S.N. 056-3067
NAME	DATE	
		SCALE: VERT. DRAWN BY JBH HORIZ. CHECKED BY AJS DATE 8/8/2006



- LEGEND**
- ① EXISTING TURF SHOULDER
 - ② EXISTING BITUMINOUS CONCRETE (VARIES BETWEEN 1.5" AND 2.5")
 - ③ EXISTING AGGREGATE BASE COURSE, 8"
 - ④ BITUMINOUS SURFACE REMOVAL (VARIED DEPTH)
 - ⑤ PROPOSED AGGREGATE SHOULDER, TYPE B, 4" MIN.
 - ⑥ STEEL PLATE BEAM GUARDRAIL, TYPE A
 - ⑦ SUB-BASE GRANULAR MATERIAL, TYPE B, 8" MIN.
 - ⑧ BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50, 2"
 - ⑨ BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N50, 2.25"
 - ⑩ TOPSOIL, FURNISH AND PLACE, 4"



STRUCTURAL PAVEMENT DESIGN INFORMATION

(IN ACCORDANCE WITH IDOT LOCAL ROADS.)

STRUCTURAL DESIGN TRAFFIC:
 DESIGN YEAR: 2030
 DESIGN YEAR ADT: 600
 88% P.V., 7.0% S.U., 5.0% M.U.

ROAD/STREET CLASSIFICATION: CLASS III
 TRAFFIC FACTOR: 0.131
 SUBGRADE SUPPORT RATING: POOR
 STRUCTURAL NUMBER, D_t = 2.5

PAVEMENT STRUCTURE MATERIALS:
 SURFACE COURSE TYPE: BITUMINOUS; a₁ = 0.44
 BASE COURSE TYPE: BITUMINOUS; a₂ = 0.33
 SUBBASE TYPE: AGGREGATE (CRUSHED); a₃ = 0.11

BITUMINOUS MIXTURE - CONTROL TABLE

MIXTURE USE	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N50	BITUMINOUS STABILIZATION 6" AT STEEL PLATE BEAM GUARDRAIL
AC	PG 64-22	PG 58-22	PG 58-22
RAP % (MAX)	15%	25%	25%
PERCENT AIR VOIDS	4.0% @ 50 GYR	4.0% @ 50 GYR	4.0% @ 50 GYR

NOTE: SURFACE AND BINDER INCLUDES SHOULDER
 NOTE: THE UNIT WEIGHT USED TO CALCULATE BITUMINOUS SURFACE MIXTURE IS 112 LB./SQ. YD. PER INCH THICKNESS



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TYPICAL WEST APPROACH SECTIONS
 T.R. 0083 (STREIT ROAD) OVER
 NORTH BRANCH OF THE KISHWAUKEE RIVER
 T.R. 0083 SECTION 02-00270-00-BR
 MCHENRY COUNTY
 S.N. 056-3067

SCALE: VERT. _____
 HORIZ. _____
 DATE: 8/8/2006

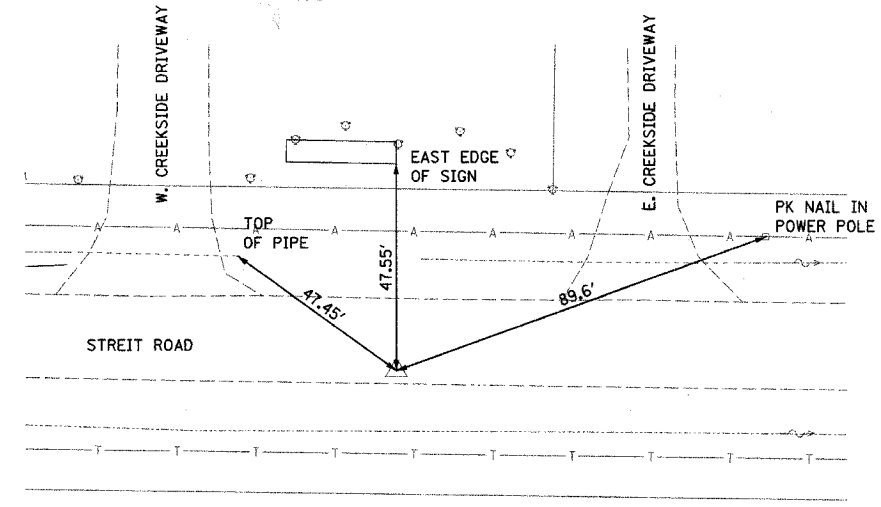
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 CHECKED BY: AJS

TIME: _____
 DATE: _____
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0083 02-00270-00-BR		MCHENRY	37	9
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO.: 83872				

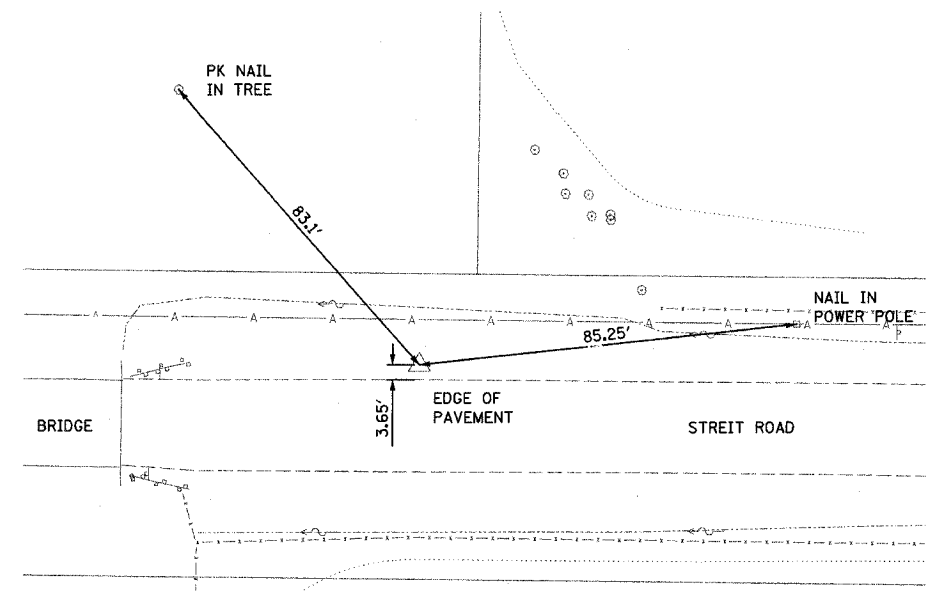
NORTHING: 2083110.8740
 EASTING: 931415.5880
 ELEV.= 914.50
 STA. 88+95
 OFFSET: 6.77' RT

CONTROL POINT 5
 PK NAIL



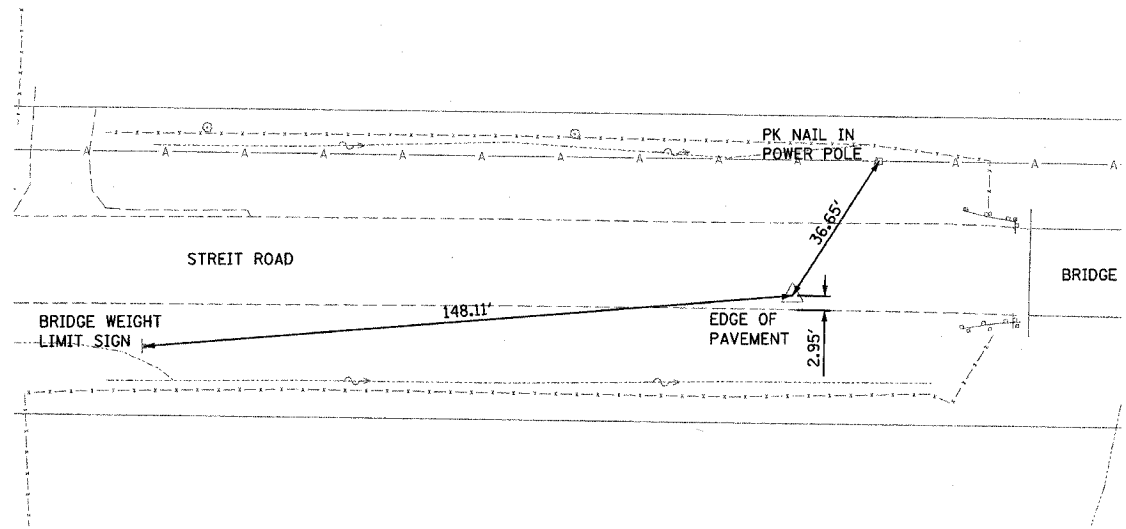
NORTHING: 2083115.7220
 EASTING: 932622.0090
 ELEV.= 910.21
 STA. 99+14
 OFFSET: 6.06' RT

CONTROL POINT 15
 REBAR WITH CAP



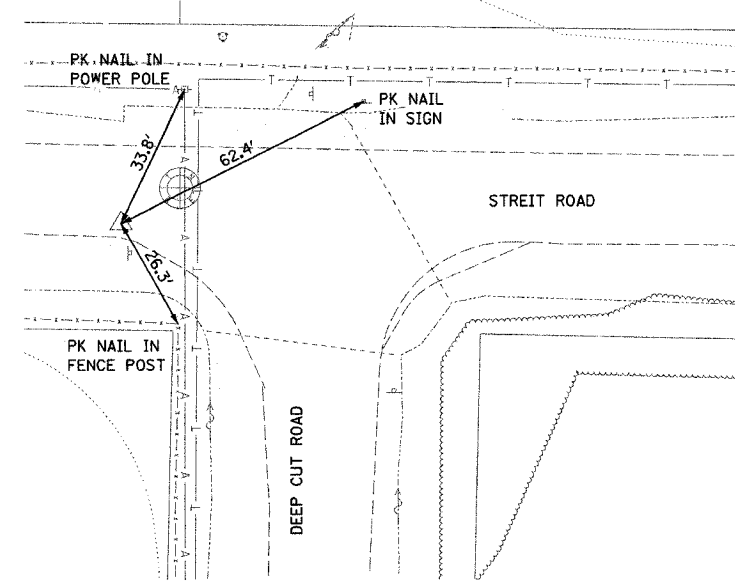
NORTHING: 2083098.1250
 EASTING: 932435.1180
 ELEV.= 911.28
 STA. 101+03
 OFFSET: 14.00' LT

CONTROL POINT 10
 PK NAIL



NORTHING: 2083078.5440
 EASTING: 933570.5830
 ELEV.= 926.41
 STA. 110+49
 OFFSET: 7.85' RT

CONTROL POINT 20
 PK NAIL



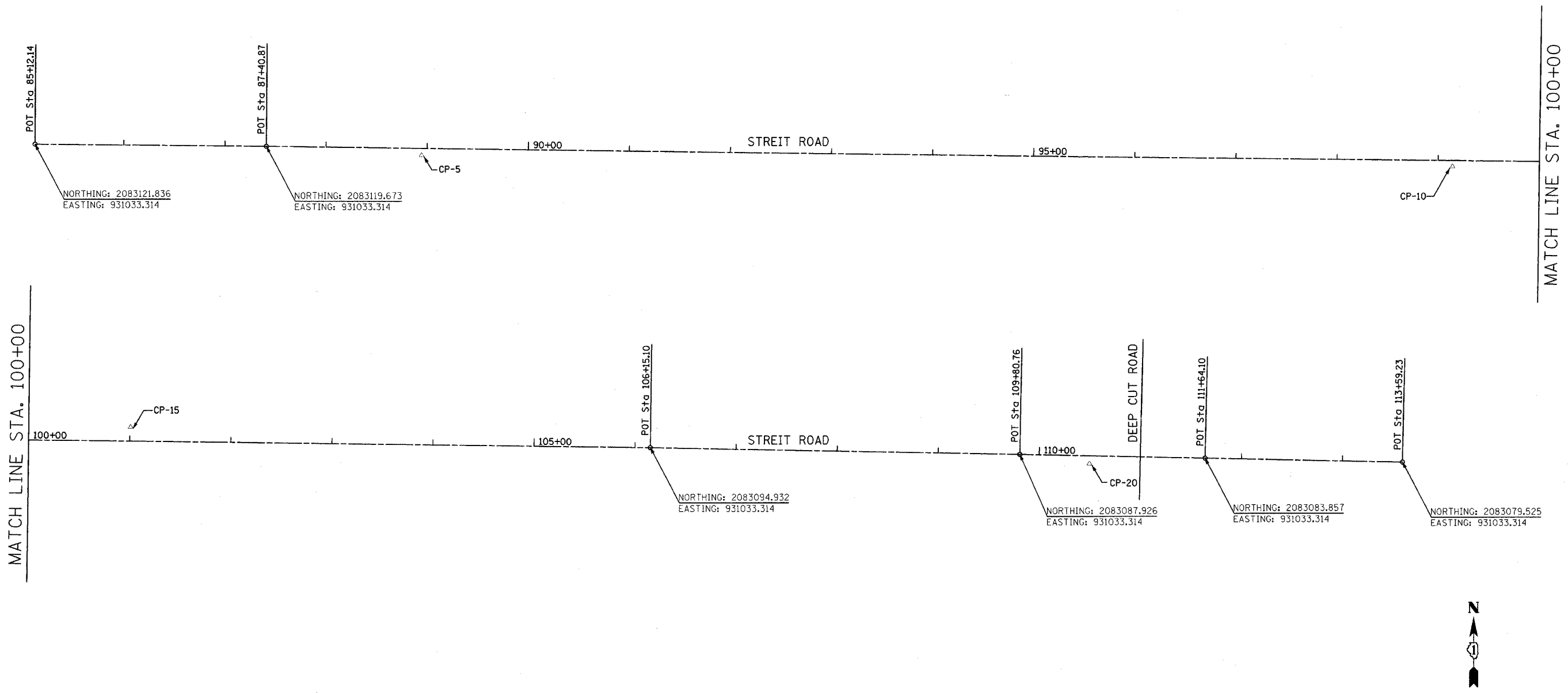
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 CONTROL POINT TIE-OFFS
 T.R. 0083 (STREIT ROAD) OVER
 NORTH BRANCH OF THE KISHWAUKEE RIVER
 T.R. 0083 SECTION 02-00270-00-BR
 McHENRY COUNTY
 S.N. 056-3067

SCALE: VERT. N.T.S.
 HORIZ.
 DATE 8/8/2006

DRAWN BY JBH
 CHECKED BY AJS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0083	02-00270-00	MCHENRY	37	10
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO.: 83872				



NORTHING: 2083121.836
EASTING: 931033.314

NORTHING: 2083119.673
EASTING: 931033.314

NORTHING: 2083094.932
EASTING: 931033.314

NORTHING: 2083087.926
EASTING: 931033.314

NORTHING: 2083083.857
EASTING: 931033.314

NORTHING: 2083079.525
EASTING: 931033.314

BENCHMARKS

1. SPIKE IN POWER POLE ON NORTH SIDE OF STREIT ROAD AT THE INTERSECTION OF STREIT ROAD AND DEEP CUT ROAD
ELEV.= 927.09
2. SPIKE IN POWER POLE ON NORTH SIDE OF STREIT ROAD, EAST SIDE OF CREEKSIDE DRIVEWAY
ELEV.= 913.77



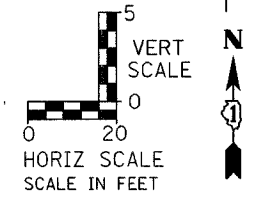
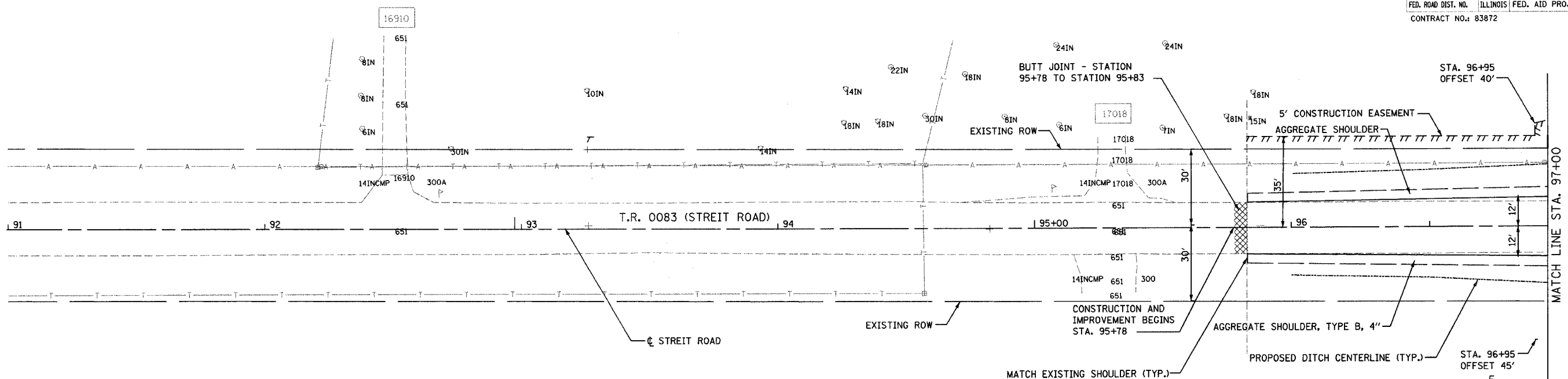
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ALIGNMENT AND BENCHMARKS
T.R. 0083 (STREIT ROAD) OVER
NORTH BRANCH OF THE KISHWAUKEE RIVER
T.R. 0083 SECTION 02-02700-00-BR
MCHENRY COUNTY
S.N. 056-3067

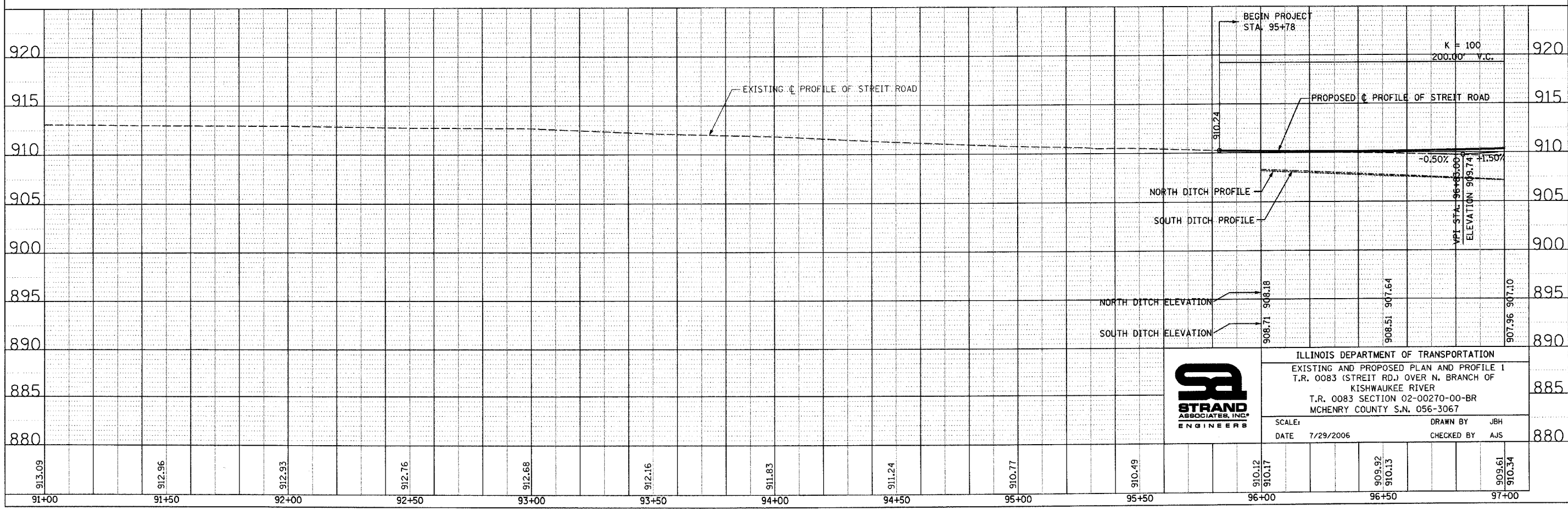
SCALE: VERT. DRAWN BY JBH
 HORIZ. CHECKED BY AJS
DATE 8/8/2006

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0083 02-00270-00-BR		McHENRY	37	11
STA. 91+00	TO STA. 97+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO.: 83872				

PLAN SURVEYED BY: DATE: _____
 PLOTTED BY: _____
 CHECKED BY: _____
 NOTE BOOK NO.: _____
 RT. OF WAY CHECKED BY: _____
 ROAD FILE NAME: _____

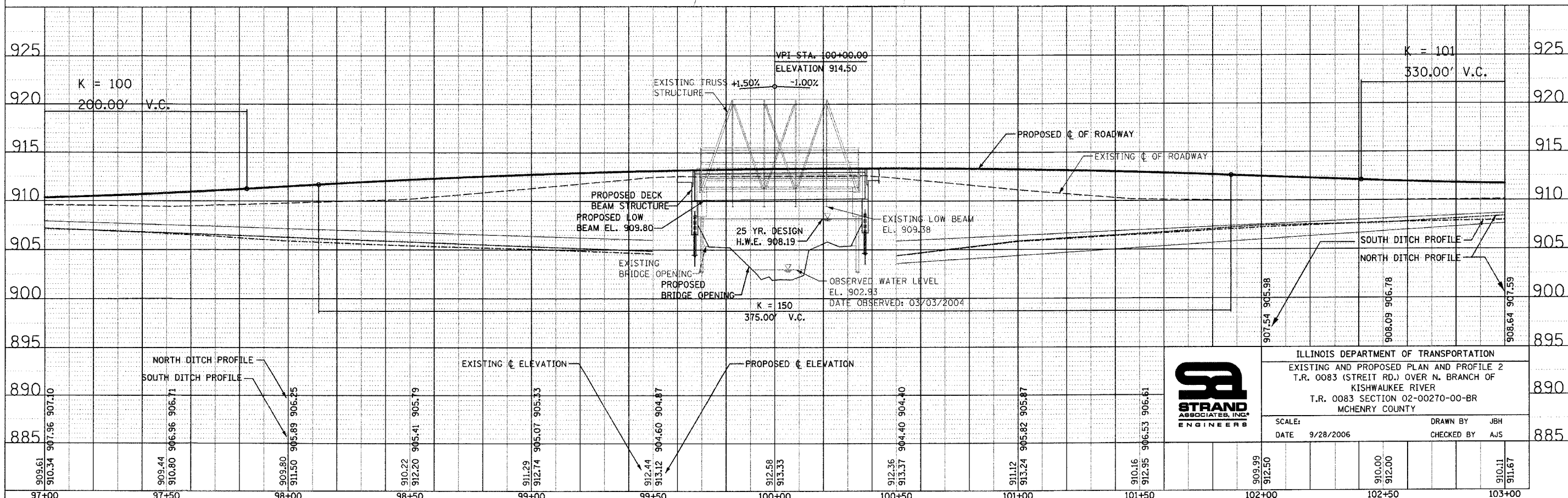
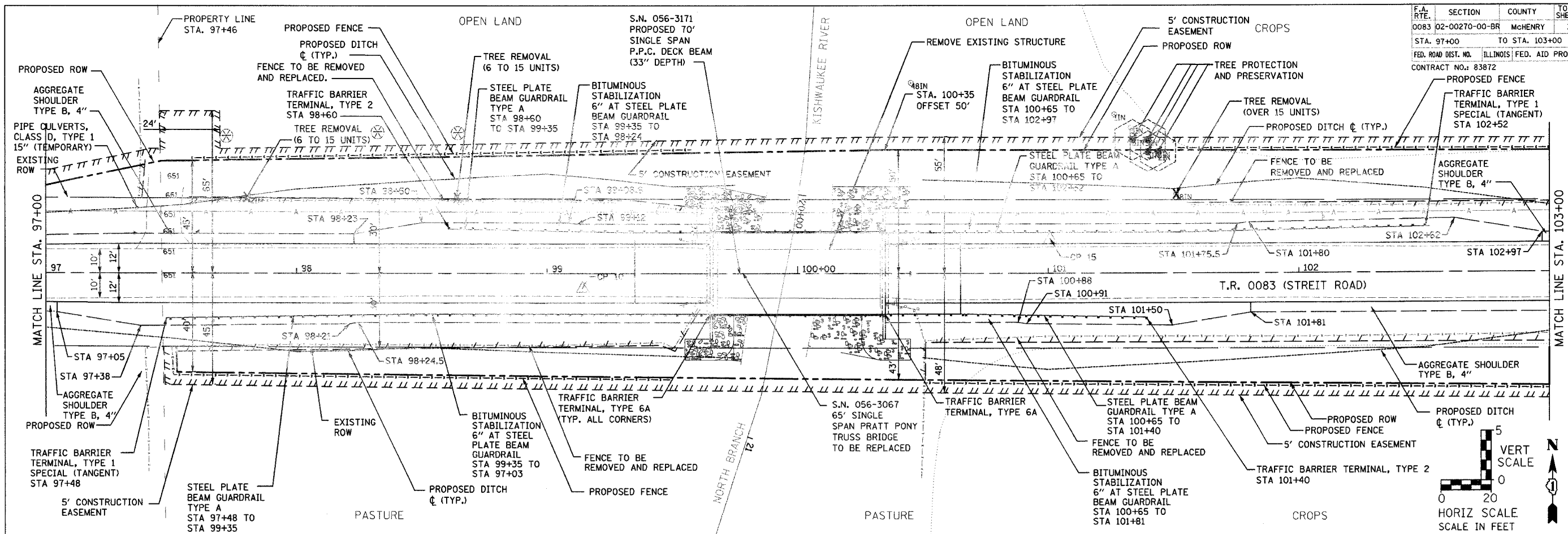


PROFILE SURVEYED BY: DATE: _____
 PLOTTED BY: _____
 CHECKED BY: _____
 NOTE BOOK NO.: _____
 BAL. NOTED BY: _____
 STRUCTURE NOTATIONS CHD: _____



ILLINOIS DEPARTMENT OF TRANSPORTATION
 EXISTING AND PROPOSED PLAN AND PROFILE 1
 T.R. 0083 (STREIT RD.) OVER N. BRANCH OF
 KISHWAUKEE RIVER
 T.R. 0083 SECTION 02-00270-00-BR
 McHENRY COUNTY S.N. 056-3067
 SCALE: _____ DRAWN BY: JBH
 DATE: 7/29/2006 CHECKED BY: AJS

F.A. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0083	02-00270-00-BR	McHENRY	37	12
STA. 97+00		TO STA. 103+00		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
CONTRACT NO.: 83872				



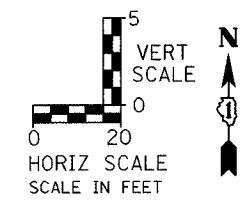
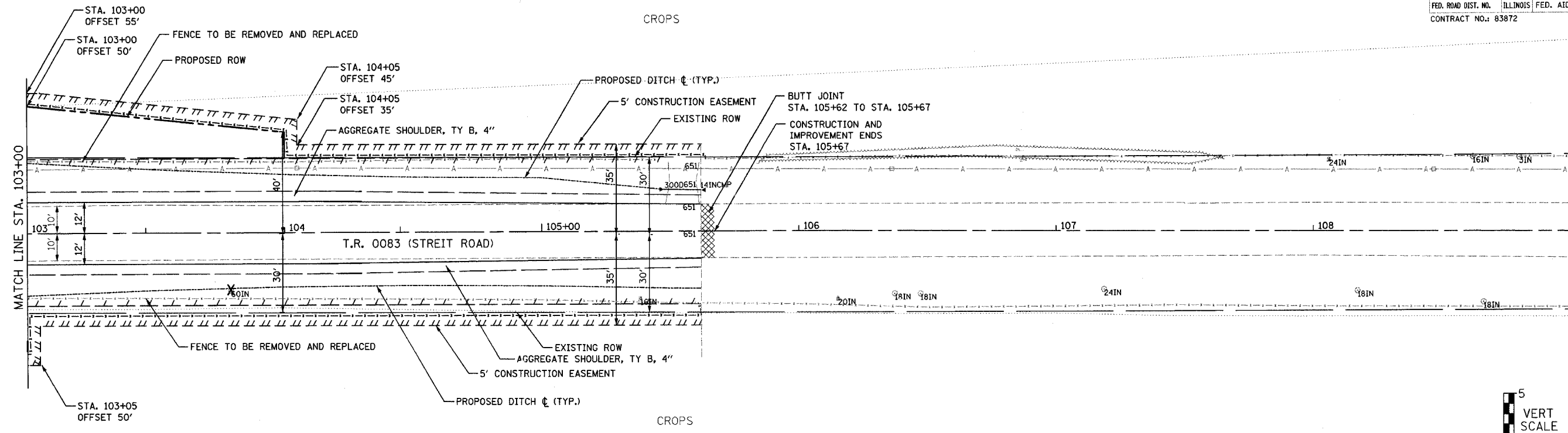
ILLINOIS DEPARTMENT OF TRANSPORTATION
 EXISTING AND PROPOSED PLAN AND PROFILE 2
 T.R. 0083 (STREIT RD.) OVER N. BRANCH OF
 KISHWAUKEE RIVER
 T.R. 0083 SECTION 02-00270-00-BR
 McHENRY COUNTY

SCALE: DATE 9/28/2006 DRAWN BY JBH CHECKED BY AJS

DATE: _____ BY: _____
 SURVEYED: _____ PLOTTED: _____
 CHECKED: _____ DATE: _____
 NOTE BOOK NO. _____
 CAD FILE NAME: _____

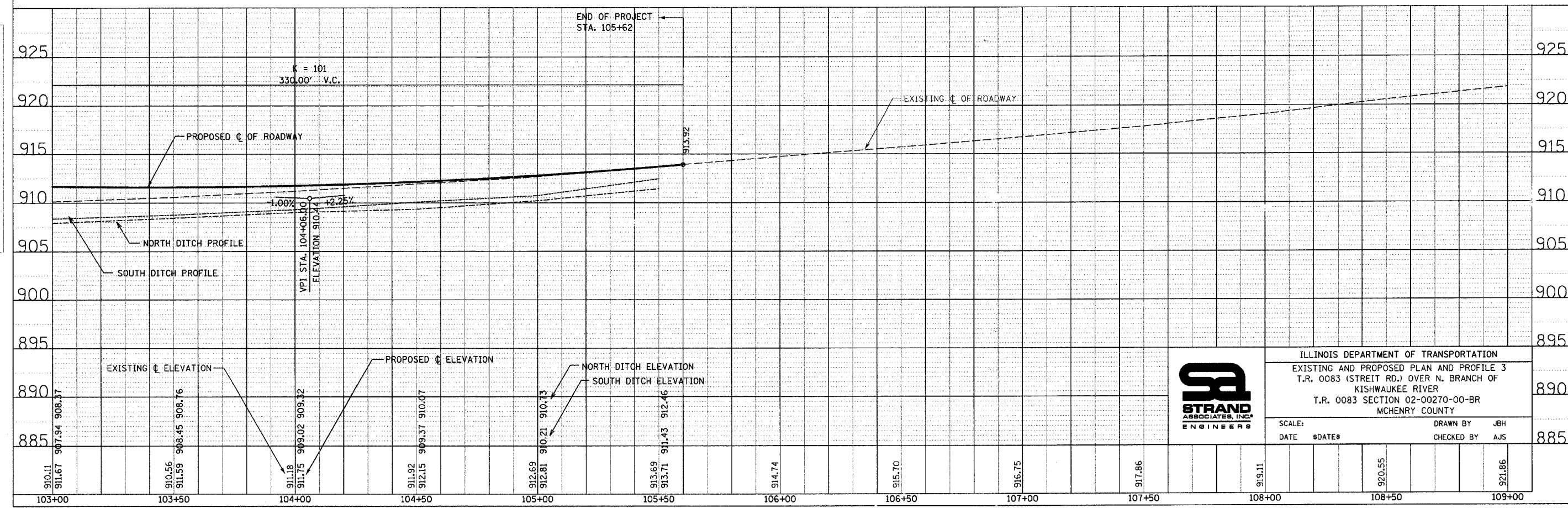
DATE: _____ BY: _____
 PROFILE SURVEYED: _____ PLOTTED: _____
 CHECKED: _____ DATE: _____
 NOTE BOOK NO. _____
 STRUCTURE NOTATION: _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0083 02-00270-00-BR		McHENRY	37	13
STA. 103+00		TO STA. 109+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO.: 83872				



PLAN SURVEYED BY: DATE: []
 PLANNED BY: []
 CHECKED BY: []
 NOTE BOOK NO.: []
 DATE OF WAY CHECKED: []
 PAID FILE NAME: []

PROFILE SURVEYED BY: DATE: []
 PLANNED BY: []
 CHECKED BY: []
 NOTE BOOK NO.: []
 DATE OF WAY CHECKED: []
 STRUCTURE NOTATIONS: []





ILLINOIS DEPARTMENT OF TRANSPORTATION
 EXISTING AND PROPOSED PLAN AND PROFILE 3
 T.R. 0083 (STREIT RD.) OVER N. BRANCH OF
 KISHWAUKEE RIVER
 T.R. 0083 SECTION 02-00270-00-BR
 McHENRY COUNTY


SCALE: DATE #DATE# DRAWN BY: JBH CHECKED BY: AJS

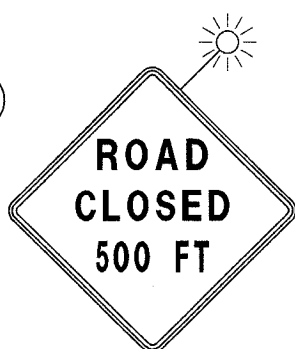
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0083 02-00270-00-BR	MCHENRY		37	14
STA.	TO STA.			
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO.: 83872				

①  M4-8A, 24" x 18" (BLACK ON ORANGE)
W17-1100, VAR. x 6" (BLACK ON ORANGE)

②  R11-3A, 60" x 30" (BLACK ON WHITE)

③  W20-2(O), 48" x 48" (BLACK ON ORANGE) WITH TYPE A FLASHING LIGHT AND FLAG
 W17-1100, VAR. x 6" (BLACK ON ORANGE)

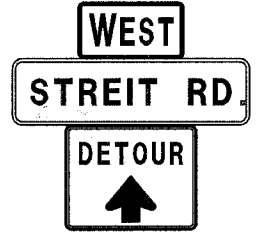
④  W20-3(O), 48" x 48" (BLACK ON ORANGE) WITH TYPE A FLASHING LIGHT AND FLAG

⑤  W20-3(O), 48" x 48" (BLACK ON ORANGE) WITH TYPE A FLASHING LIGHT AND FLAG

⑥  R11-3, 60" x 30" (BLACK ON WHITE)

⑦  R11-3, 60" x 30" (BLACK ON WHITE)

⑧  R11-2, 48" x 30" (BLACK ON WHITE)

⑨  M3-1, 24" x 12" (BLACK ON ORANGE)
W17-1100, VAR. x 6" (BLACK ON ORANGE)
M4-9(O), 30" x 24" (BLACK ON ORANGE)

TYPE III BARRICADES WITH TWO TYPE A FLASHING LIGHTS EACH AND ONE FLAG

⑩  M3-1, 24" x 12" (BLACK ON ORANGE)
W17-1100, VAR. x 6" (BLACK ON ORANGE)

M4-9(O), 30" x 24" (BLACK ON ORANGE)

⑩a 

⑪  M3-1, 24" x 12" (BLACK ON ORANGE)
W17-1100, VAR. x 6" (BLACK ON ORANGE)

M4-9(O), 30" x 24" (BLACK ON ORANGE)

⑫  M3-1, 24" x 12" (BLACK ON ORANGE)
W17-1100, VAR. x 6" (BLACK ON ORANGE)

M4-9(O), 30" x 24" (BLACK ON ORANGE)

⑬  M3-1, 24" x 12" (BLACK ON ORANGE)
W17-1100, VAR. x 6" (BLACK ON ORANGE)

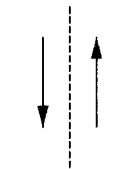
M4-9(O), 30" x 24" (BLACK ON ORANGE)

⑭  M3-1, 24" x 12" (BLACK ON ORANGE)
W17-1100, VAR. x 6" (BLACK ON ORANGE)

M4-9(O), 30" x 24" (BLACK ON ORANGE)

⑭a 

⑮  R11-3A, 60" x 30" (BLACK ON WHITE)



INDICATES MARKED DETOUR ROUTE

⑯  M4-10R, 48" x 18" (BLACK ON ORANGE)



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETOUR SIGNING
T.R. 0083 (STREIT ROAD) OVER
NORTH BRANCH OF THE KISHWAUKEE RIVER
T.R. 0083 SECTION 02-00270-00-BR
MCHENRY COUNTY
S.N. 056-3067

SCALE: VERT. DATE 8/8/2006
DRAWN BY JBH
CHECKED BY AJ5

TIME: 8:18:37 AM
DATE: 8/2/06
FILENAME: s:\w\001-8501\002\intrac\refsheet-roadway\detour plan.dgn

PART OF THE SW 1/4 OF SEC. 10 AND PART OF THE NW 1/4 OF SEC. 15, TWP. 45 N., R. 6 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.

F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	02-00270-00-BR	McHENRY	27	10
CONTRACT 08072		PROJECT		

LEGEND

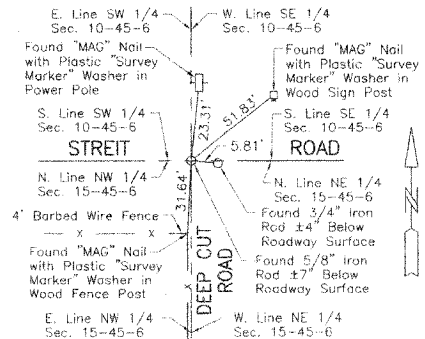
- SECTION CORNER 16
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- CENTER LINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORD DATA
- EXISTING BUILDING
- IRON PIPE OR ROD FOUND
- "MAG" NAIL SET
- CUT CROSS FOUND OR SET
- 5/8" REBAR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T2
- T3
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT2
- BT3
- M STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }
 COUNTY OF LAKE }
 THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 10, TOWNSHIP 45N., RANGE 6E., AND SECTION 15, TOWNSHIP 45N., RANGE 6E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.
 DATED AT LAKE VILLA, ILLINOIS THIS 23 DAY OF July 2006 A.D.

CHRISTIAN H. JORGENSEN
 2787 PROFESSIONAL LAND SURVEYOR
 STATE OF ILLINOIS
 LAKE VILLA, ILLINOIS
 PRESIDENT
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2006
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Point Number	Tie to point	Tie Distance (feet)
1	T1	44.82
	T2	34.80
	T3	29.63
2	T1	14.11
	T2	11.05
	T3	17.37
3	BT1	19.84
	BT2	8.67
	BT3	19.72
4	T1	16.50
	T2	7.54
	T3	9.43
5	T1	23.15
	T2	17.54
	T3	13.56
6	BT1	39.33
	BT2	27.66
	BT3	38.44
7	BT1	30.94
	BT2	12.66
	BT3	29.71

Parcel	Document No.	Date Recorded
0003	1205	June 1, 1889
0004	1205	June 1, 1889



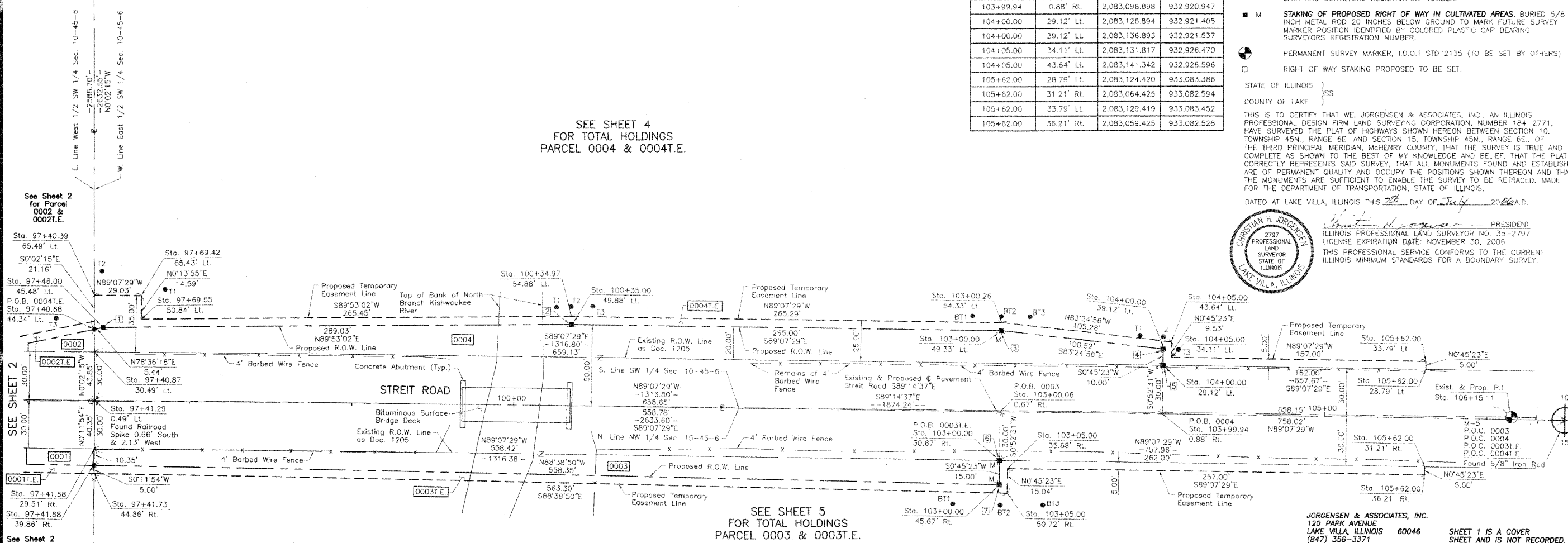
M-5 "Monument Record"
 South 1/4 Corner of Section 10-45-6
 N.2,083,086.845-E.933,579.014
 Recorded July 7, 2006
 Document No. 2006R0049702

STATION	OFFSET	NORTH	EAST
97+40.39	65.49' Lt.	2,083,171.966	932,262.330
97+40.68	44.34' Lt.	2,083,150.807	932,262.344
97+40.87	30.49' Lt.	2,083,136.962	932,262.353
97+41.29	0.49' Lt.	2,083,106.958	932,262.372
97+41.58	29.51' Rt.	2,083,076.956	932,262.268
97+41.68	39.86' Rt.	2,083,066.608	932,262.233
97+41.73	44.86' Rt.	2,083,061.607	932,262.215
97+46.00	45.48' Lt.	2,083,151.882	932,267.678
97+69.42	65.43' Lt.	2,083,171.523	932,291.358
97+69.55	50.84' Lt.	2,083,156.930	932,291.299
100+34.97	54.88' Lt.	2,083,157.468	932,556.744
100+35.00	49.88' Lt.	2,083,152.468	932,556.711
103+00.00	30.67' Rt.	2,083,058.427	932,820.624
103+00.00	45.67' Rt.	2,083,053.428	932,820.426
103+00.00	49.33' Lt.	2,083,148.420	932,821.680
103+00.06	0.67' Rt.	2,083,098.423	932,821.083
103+00.26	54.33' Lt.	2,083,153.416	932,822.006
103+05.00	35.68' Rt.	2,083,063.351	932,825.558
103+05.00	50.72' Rt.	2,083,048.310	932,825.359
103+99.94	0.88' Rt.	2,083,096.898	932,920.947
104+00.00	29.12' Lt.	2,083,126.894	932,921.405
104+00.00	39.12' Lt.	2,083,136.893	932,921.537
104+05.00	34.11' Lt.	2,083,131.817	932,926.470
104+05.00	43.64' Lt.	2,083,141.342	932,926.596
105+62.00	28.79' Lt.	2,083,124.420	933,083.386
105+62.00	31.21' Rt.	2,083,064.425	933,082.594
105+62.00	33.79' Lt.	2,083,129.419	933,083.452
105+62.00	36.21' Rt.	2,083,059.425	933,082.528

SEE SHEET 4 FOR TOTAL HOLDINGS PARCEL 0004 & 0004T.E.

SEE SHEET 5 FOR TOTAL HOLDINGS PARCEL 0003 & 0003T.E.

DATE	BY	MADE	CHECKED	NOTEBOOK	NO.



PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
0003 0003T.E.	Albert O. Fischer, as Trustee under a Trust Agreement dated December 2, 2002 and known as Trust No. 1	97.209*	0.547	0.385	96.662*	0.096	Grading	07-15-100-003	
0004 0004T.E.	Susan E. Strahs, Trustee of the Susan E. Strahs, Self Declaration of Living Trust dated September 13, 1997	79.950	0.728	0.454	79.222	0.105	Grading	07-10-300-007 07-10-300-009	

* Area based on that part lying in the West Half of Sec. 15-45-6.

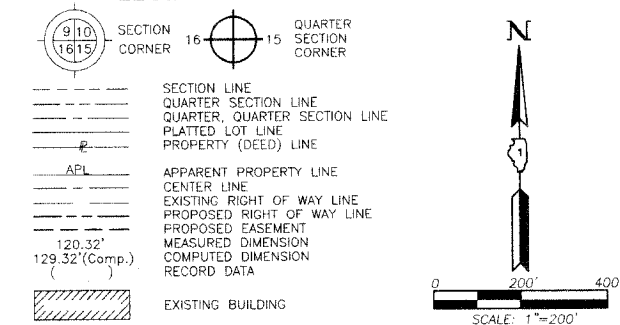
JORGENSEN & ASSOCIATES, INC.
 120 PARK AVENUE
 LAKE VILLA, ILLINOIS 60046
 (847) 356-3371

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 STREIT ROAD
 SECTION 02-00270-00-BR McHENRY COUNTY
 PROJECT JOB NO. R-55-001-97
 STATION 97+00 TO STATION 106+15.11
 SCALE: 1"=30' SHEET 3 OF 6

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0083	02-00270-00-BR	McHENRY	37	20
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0083	02-00270-00-BR	McHENRY	37	20

LEGEND



Bearings are referenced to the Illinois Coordinate System NAD83 (1997) East Zone at Found Geodetic Survey Control Monuments "Streit", P.I.D. AJ2978 and "Neison", P.I.D. AJ2972.

- IRON PIPE OR ROD FOUND
- ⊕ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- 5/8" REBAR SET
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT2
- BT3
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.1 STD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }
 COUNTY OF LAKE }
 THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 10, TOWNSHIP 45N., RANGE 6E., AND SECTION 15, TOWNSHIP 45N., RANGE 6E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 27th DAY OF July 2006 A.D.
 CHRISTIAN H. JORGENSEN PRESIDENT
 2797 PROFESSIONAL LAND SURVEYOR NO. 35-2797
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2006
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
 Coordinates are based on the Published Metric Coordinate Values at Found Geodetic Survey Control Monument "Streit", P.I.D. AJ2978, of N.634,930.684-E.282,142.009.
 NOTE: SURFACE COORDINATES ARE SHOWN.

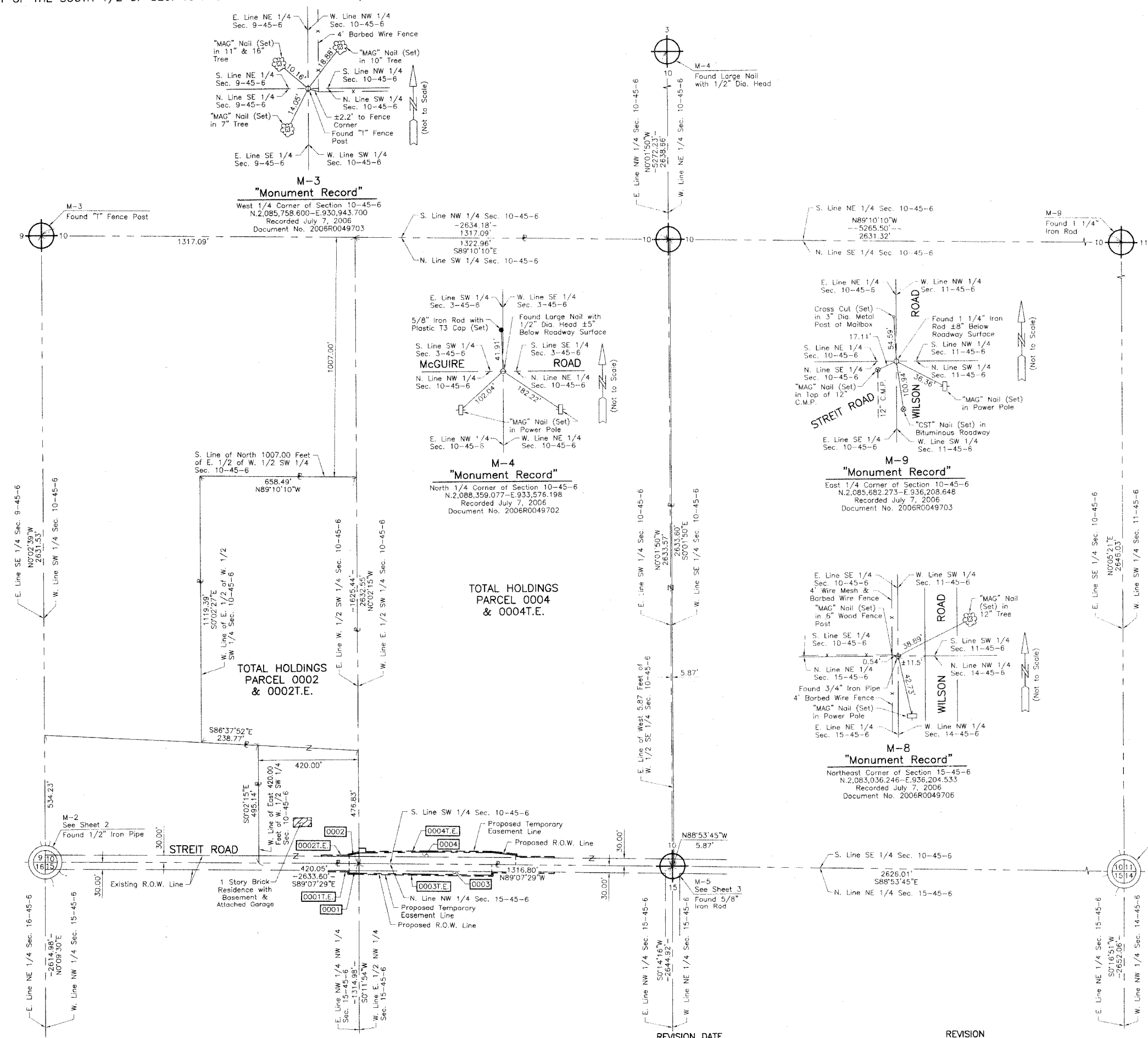


JORGENSEN & ASSOCIATES, INC.
 120 PARK AVENUE
 LAKE VILLA, ILLINOIS 60046
 (847) 356-3371

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 STREET ROAD
 SECTION 02-00270-00-BR McHENRY COUNTY
 PROJECT JOB NO. R-55-001-97
 STATION NONE TO STATION
 SCALE: 1"=200' SHEET 4 OF 6

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

ROW PLAT	MADE	BY	DATE
NOTEBOOK	NO.		



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	STATE	SHEET NO.
0083	02-00270-00-BR	McHENRY	37	23
FEDERAL ROAD DISTRICT NUMBER 7		ILLINOIS PROJECT NO.	SHEETS	
		CONTRACT NO.: 83872	6 SHEETS	

Benchmark: See Alignment Sheet (Sheet 2)
Existing Structure: S.N. 056-3067, single span Pratt Pony truss with open abutments on timber piles.
Back to back of abutment length of 71'-0", span of 65'-0". Contractor shall remove existing structure and replace with a single span precast prestress box beam superstructure on open abutments. Back to back of abutment length of 72'-6", span of 70'-0". A detour route shall be provided to accommodate traffic.

No Salvage

GENERAL NOTES

Expansion guards which are not cast in the precast unit shall be fabricated and erected according to Article 503.10(c) of the Standard Specifications and are included in quantity of structural steel.
Reinforcement bars shall conform to the requirements of AASHTO M31, M42 or M53 Grade 60.
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
The contractor shall drive two test piles in a permanent location, one at the east abutment and one at the west abutment as directed by the Engineer before ordering the remainder of piles.
The top surface of the beams shall be finished according to Article 504.06 of the Standard Specification except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions of high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of 1/4".

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)
PRECAST PRESTRESSED UNITS
 $f'_c = 5,000$ psi
 $f_{ci} = 4,000$ psi
 $f'_s = 270,000$ psi (1/2" low lax. strands)
 $f'_{si} = 201,960$ psi (1/2" low lax. strands)

SEISMIC DATA

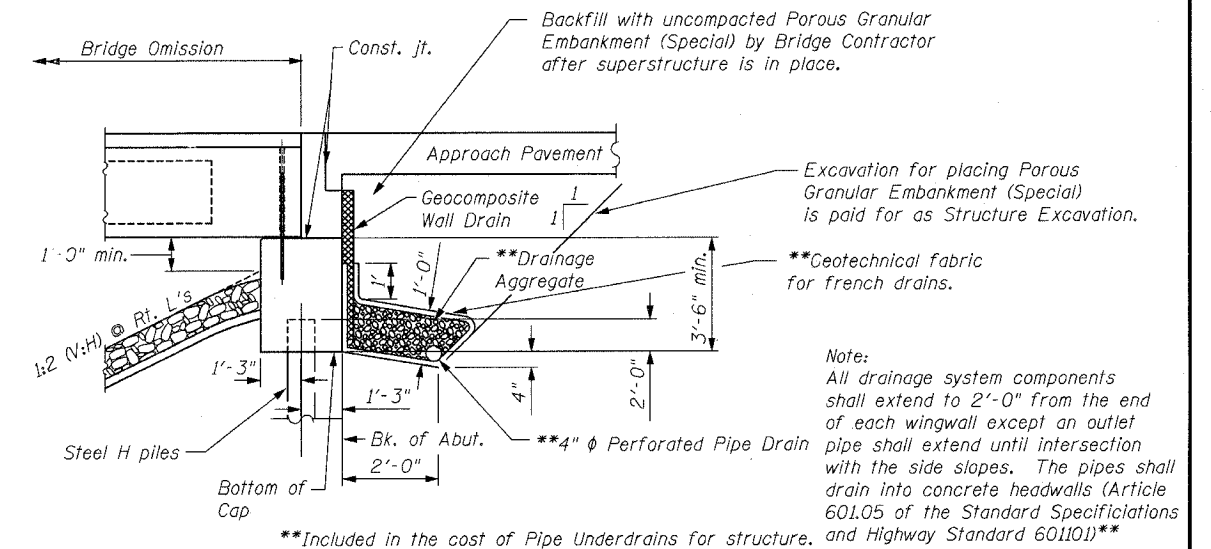
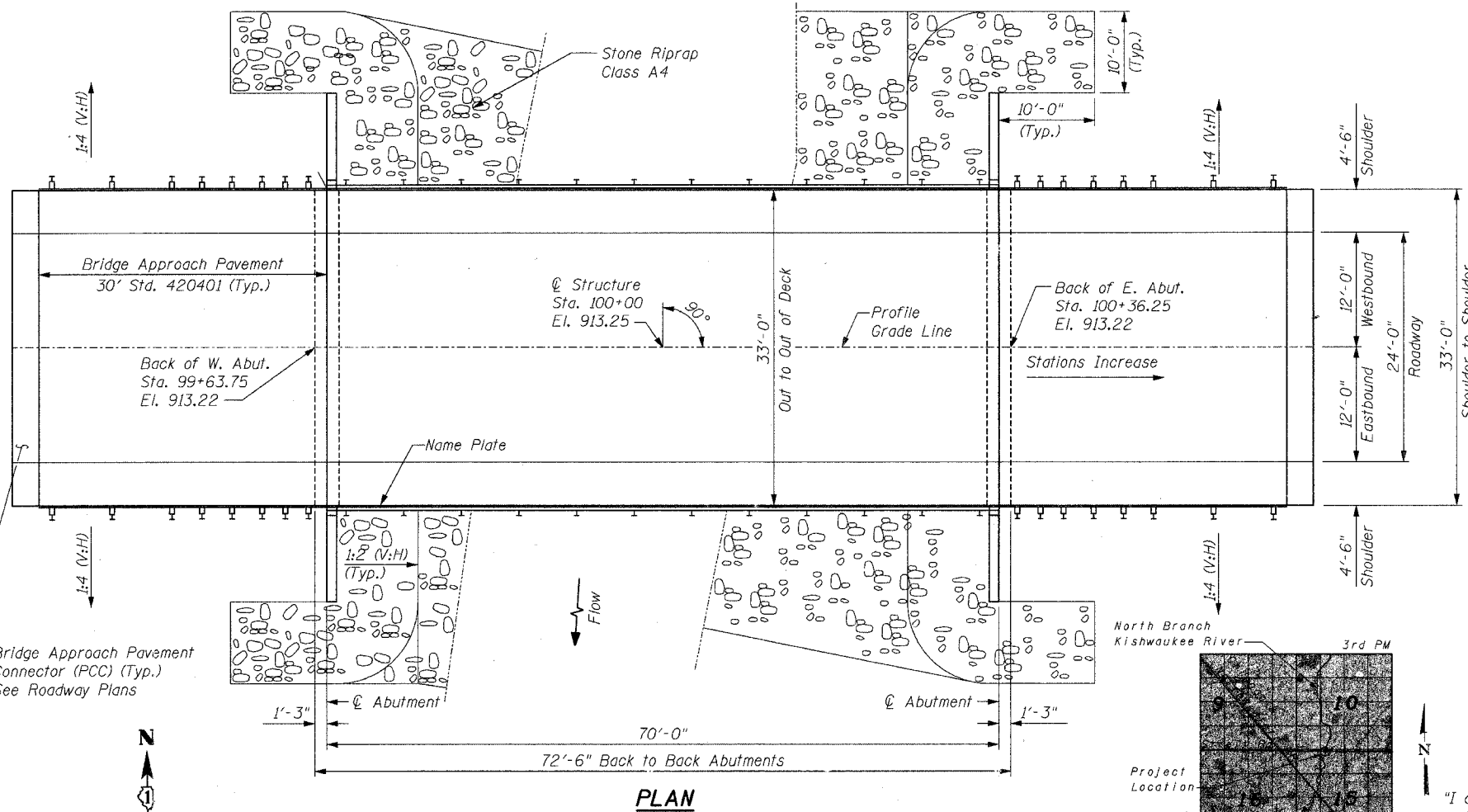
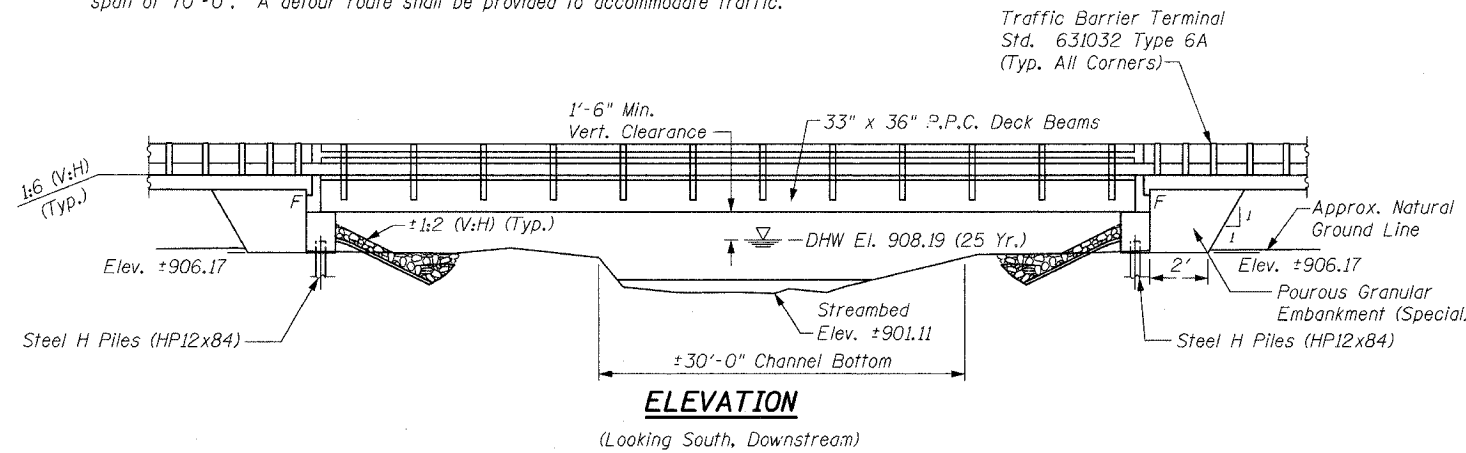
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.034g
Site Coefficient (S) = 1.0

LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

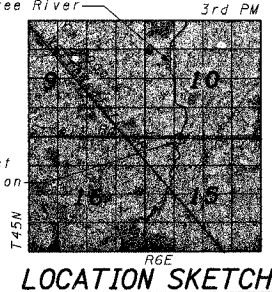
1996 AASHTO with 1997 thru 2006 Interims



NORTH BRANCH OF KISHWAUKEE RIVER
BUILT 2007 BY HARTLAND TOWNSHIP
McHENRY COUNTY
SEC. 02-00-270-00-BR
FA PROJ. _____
STA. 100+00
STR. NO. 056-3171 LOADING HS 20

NAME PLATE

See Std. 515001



"I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specifications for Highway Bridges."



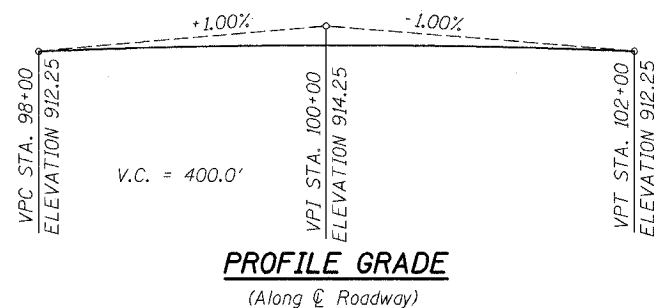
ILLINOIS STRUCTURAL NO. 081005819 (Expires 11/30/06)

TOTAL BILL OF MATERIAL

ITEM	UNIT	QTY.
Porous Granular Embankment (Special)	Cu. Yd.	240
Stone Riprap, Class A4	Sq. Yd.	442
Filter Fabric	Sq. Yd.	442
Protective Coat	Sq. Yd.	260
Removal of Existing Structures	EACH	1
Structure Excavation	Cu. Yd.	272
Concrete Structures	Cu. Yd.	39
Bridge Deck Grooving	Sq. Yd.	260
*Concrete Wearing Surfaces	Cu. Yd.	40
Precast, Prestressed Concrete Deck Beams (33" depth)	Sq. Ft.	2300
Reinforcement Bars, Epoxy Coated	Pound	7300
Steel Bridge Rail, Type SM	Foot	140
Furnishing Steel Piles HP 12 X 84	Foot	1120
Driving Steel Piles	Foot	1120
Test Piles Steel HP 12 X 84	Each	2
Name Plate	Each	1
Pipe Underdrains for Structures, 4"	Foot	183
Geocomposite Wall Drain	Sq. Yd.	70

* Indicates pay item covered by a special provision.

DESIGNED	EAK
CHECKED	AJS
DRAWN	RAP
CHECKED	JAR



WATERWAY INFORMATION

Drainage Area = 15.58 Sq. Mi. Proposed Low Grade Elev. 910.61 @ Sta. 95+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	25	1192	254.54	248.53	907.86	0.28	0.33	908.14	908.19
Base	100	1541	284.46	278.00	908.34	0.32	0.39	908.66	908.73
Overtopping	>500	2435	343.73	335.21	909.27	1.38	1.27	910.65	910.54
Max. Calc.	-	-	-	-	-	-	-	-	-



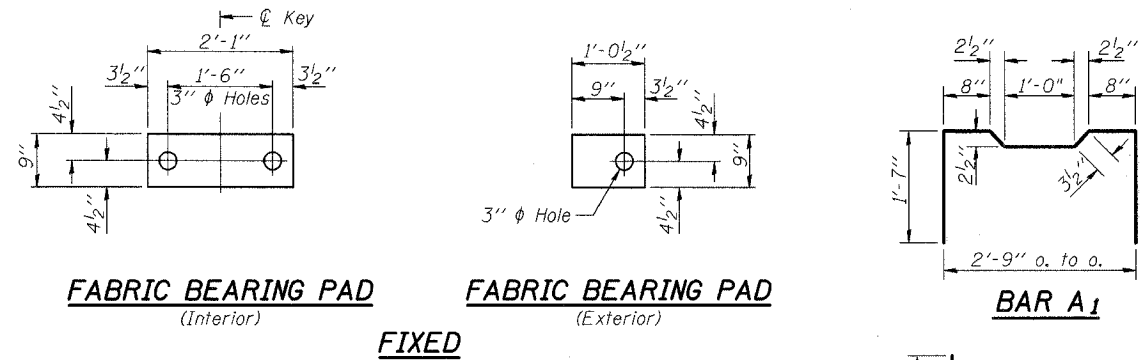
ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN
T.R. 0083 (STREIT ROAD) OVER
NORTH BRANCH OF THE KISHWAUKEE RIVER
T.R. 0083 SECTION 02-00270-00-BR
McHENRY COUNTY
S.N. 056-3171

SCALE: DATE: 08/07/2006

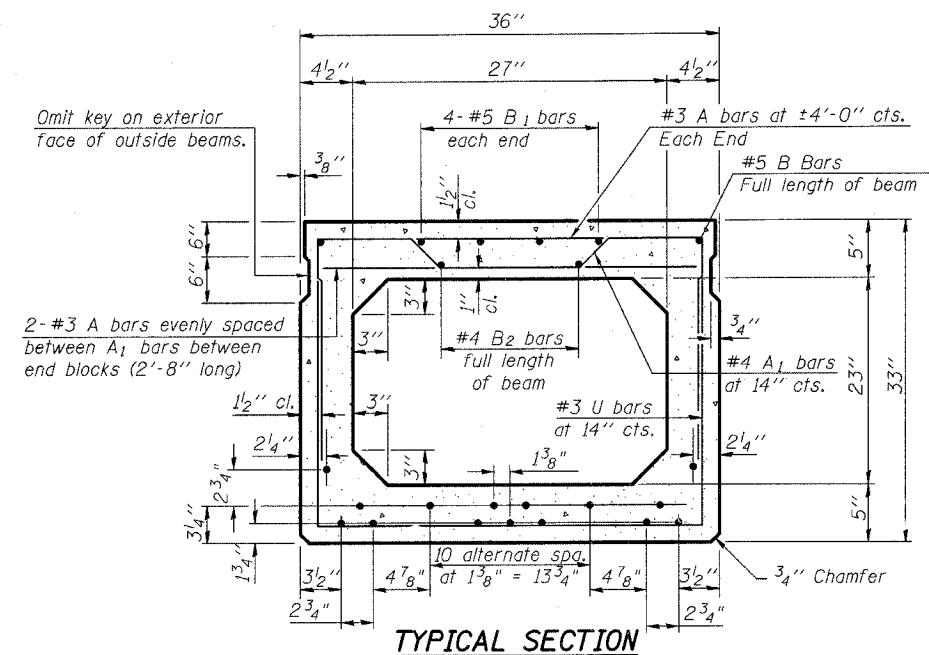
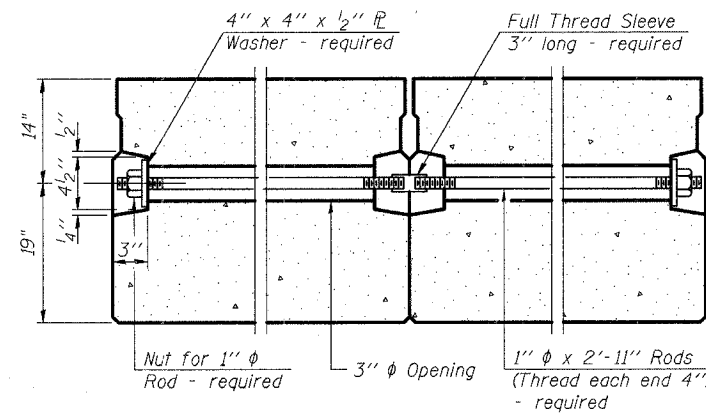
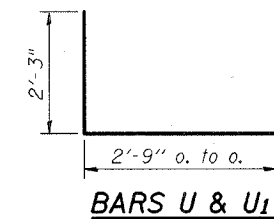
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO. 2 6 SHEETS
0083	02-00270-00-BR	McHENRY	37	24	
FEDERAL ROAD DISTRICT NUMBER 7		ILLINOIS	FEDERAL AID PROJECT		

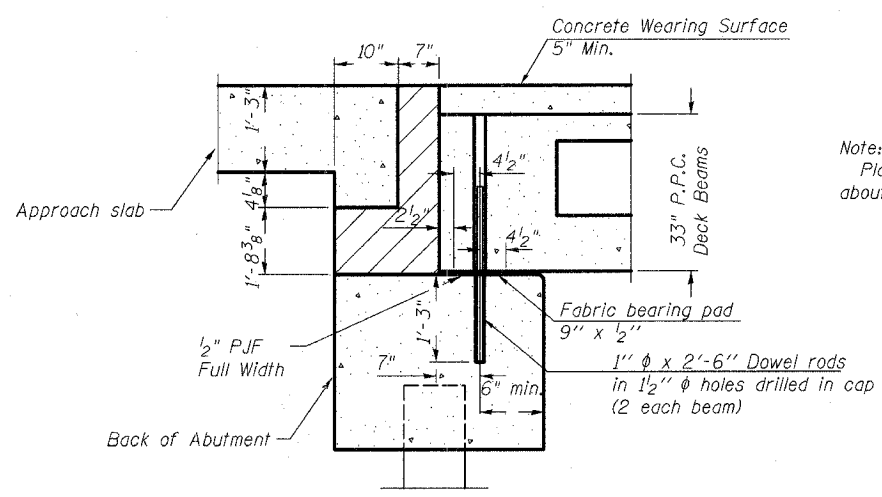
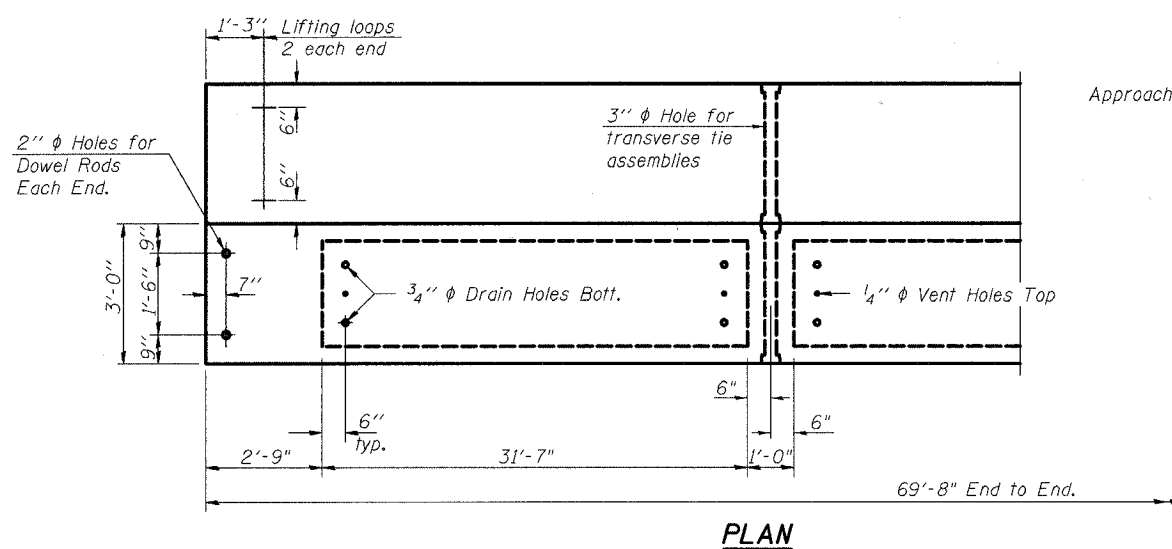
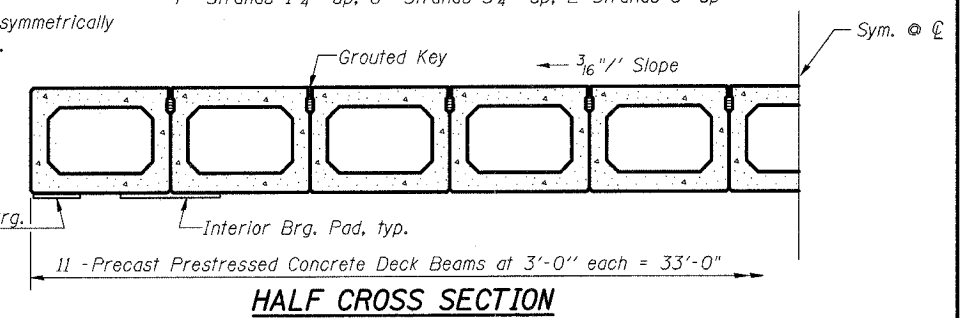
CONTRACT NO.: 83872



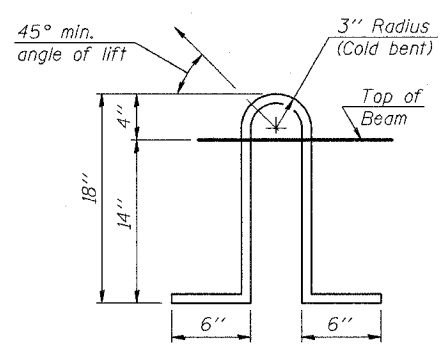
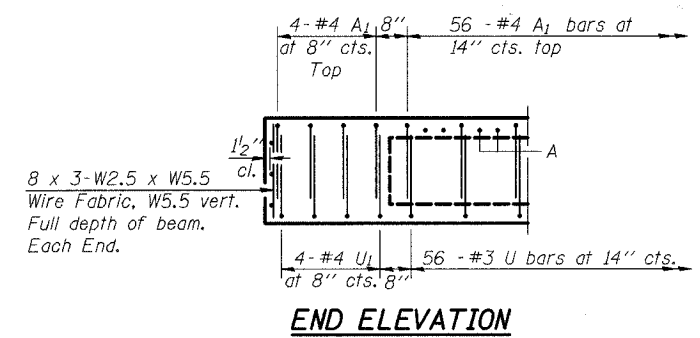
FIXED



Note:
Place strands symmetrically about centerline of beam.



Notes:
After beams are in place, 1/2 inch holes shall be drilled into the cap, and the dowel rods grouted in place and allowed to cure min. 24 hrs. prior to grouting the shear keys.
Thatched area to be poured after beams are in place.



NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2 inch and the nominal cross-sectional area shall be 0.153 sq. in. Lifting loops shall be 3 - 1/2 inch diameter - 270 ksi strands, as shown.
The 1 inch rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.
Non prestressing steel shall conform to AASHTO M-31, M-42 or M-53 Grade 60.
The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8 inch fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.
Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.
Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.
Required Release Strength, f'ci, shall be 4000 p.s.i.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
A	120	3	2'-8"	□
A ₁	64	4	6'-1"	□
B	2	5	69'-4"	—
B ₁	8	5	13'-9"	—
B ₂	2	5	69'-4"	—
U	56	3	7'-3"	□
U ₁	8	4	7'-3"	□
Precast Prestressed Concrete Deck Beams		Sq. Ft.	2300	

Estimated Total Weight (One Beam) = 42845 lbs.

Note:
Reinforcement Bars included in Precast, Prestressed Concrete Deck Beams.

DESIGNED	EAK
CHECKED	AJS
DRAWN	RAP
CHECKED	JAR

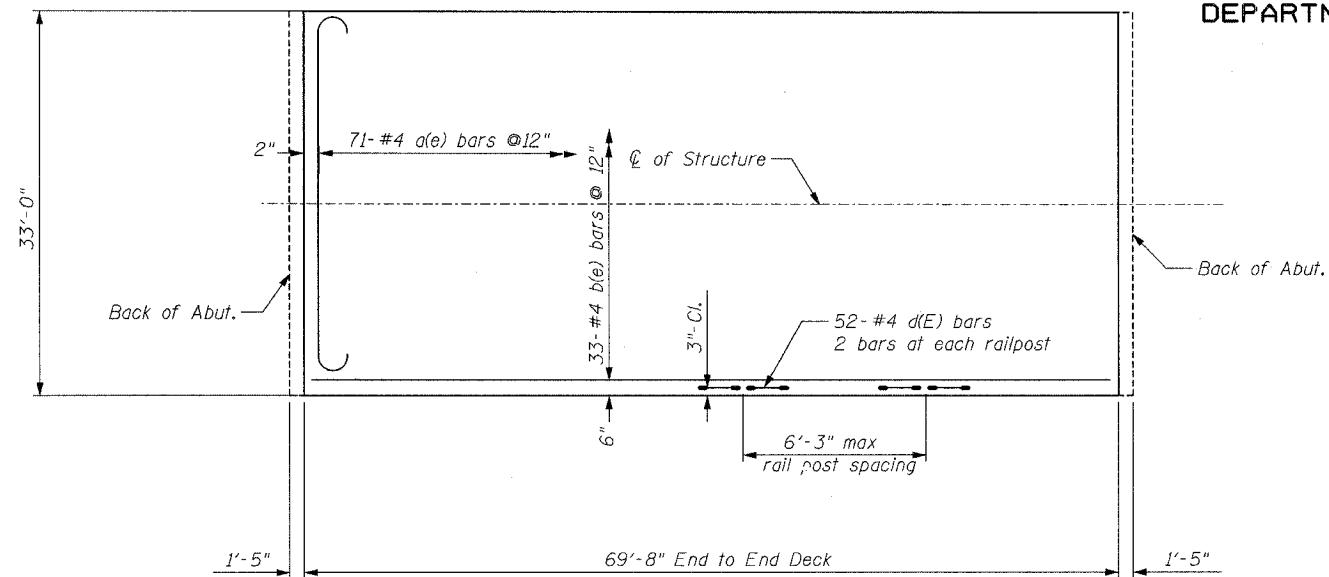


ILLINOIS DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE PLAN AND DETAILS
T.R. 0083 (STREIT ROAD) OVER
NORTH BRANCH OF THE KISHWAUKEE RIVER
T.R. 0083 SECTION 02-00270-00-BR
McHENRY COUNTY
S.N. 056-3171

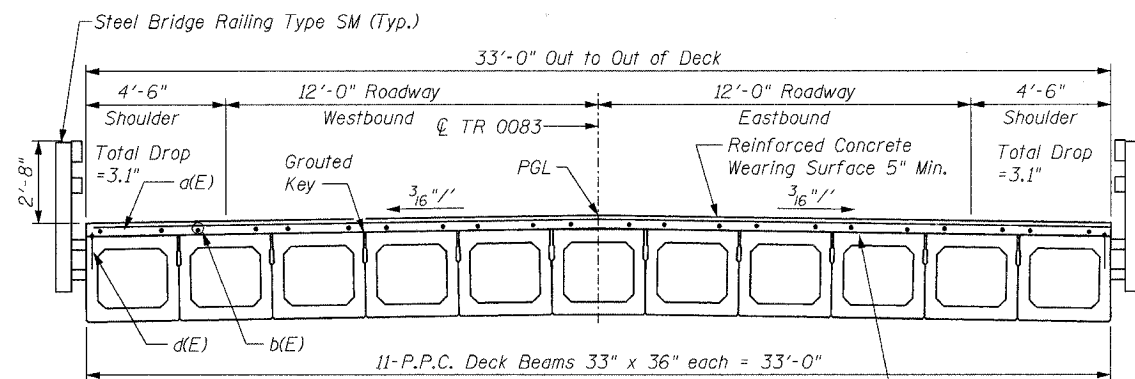
SCALE: DATE: 8/8/2006

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3 6 SHEETS
0083	02-00270-00-BR	McHENRY	37	25	
FEDERAL ROAD DISTRICT NUMBER 7		ILLINOIS PROJECT	CONTRACT NO.: 83872		

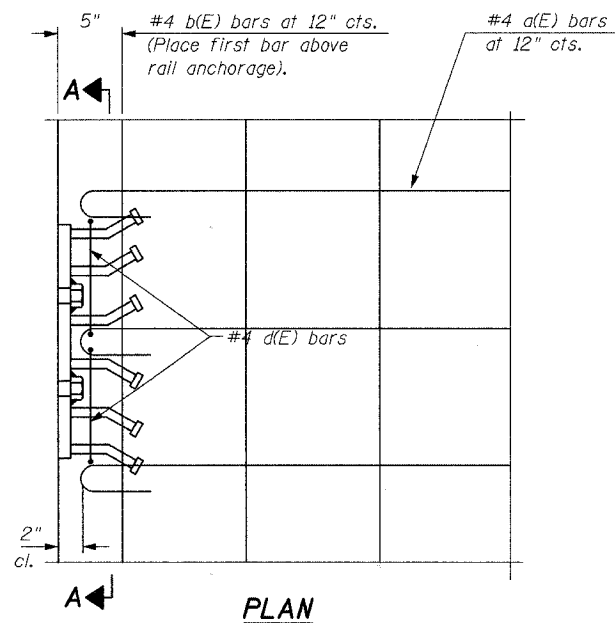


PLAN

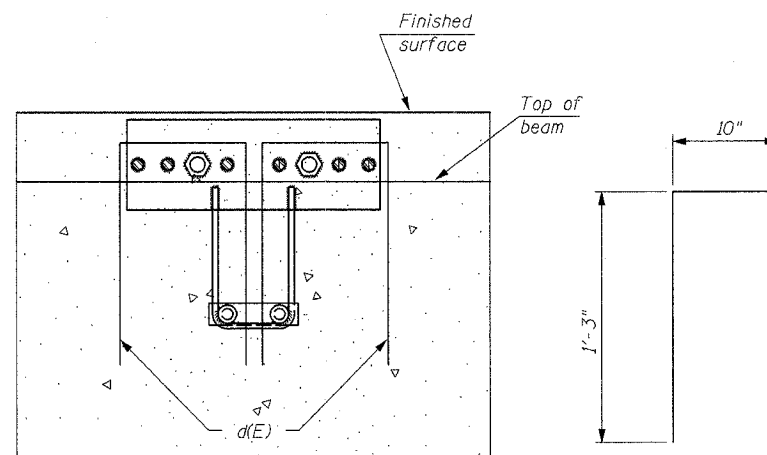


CROSS SECTION
(Looking East)

Place Hand Cement Mortar
Fairing Cause As Necessary
Prior To Placing Concrete
Wearing Surface (Tap At
Each Longitudinal Joint)

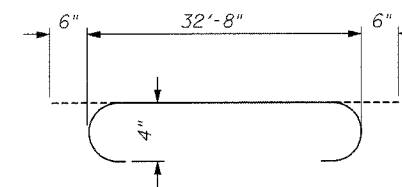


PLAN

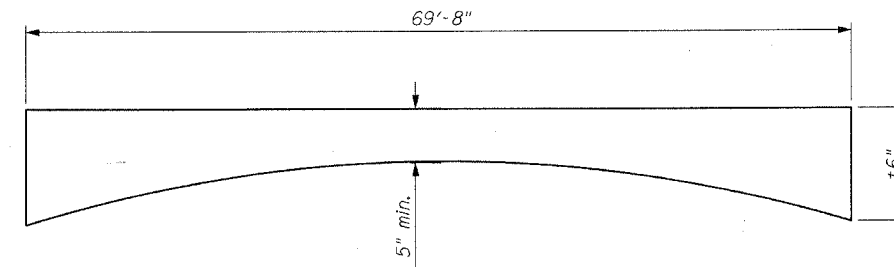


SECTION A-A

d(E) Bar



d(E) Bar



REINFORCED CONCRETE SURFACE WEARING PROFILE

BAR LIST

Bar	No.	Size	Length	SHAPE
a(E)	71	#4	33'-8"	U
b(E)	33	#4	69'-4"	—
d(E)	52	#4	3'-4"	U
Concrete Wearing Surface			Cu. Yd.	40
Reinforcement Bars, Epoxy Coated			Lbs.	3240
Protective Coat			Sq. Yd.	260

Bars Indicated (E) Shall Be Epoxy Coated

NOTES:

The rail anchorage shall be cast with the beam and the wearing surface shall be cast in the field. Form work necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam. Drilling into the beam will not be permitted.

DESIGNED	EAK
CHECKED	AJS
DRAWN	RAP
CHECKED	JAR



ILLINOIS DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE
T.R. 0083 (STREIT ROAD) OVER
NORTH BRANCH OF THE KISHWAUKEE RIVER
T.R. 0083 SECTION 02-00270-00-BR
McHENRY COUNTY
S.N. 056-3171

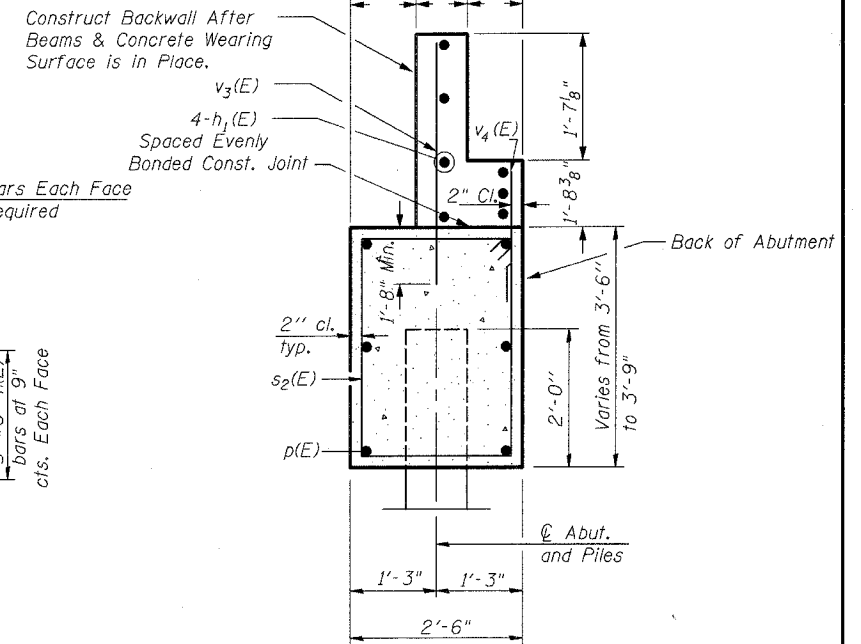
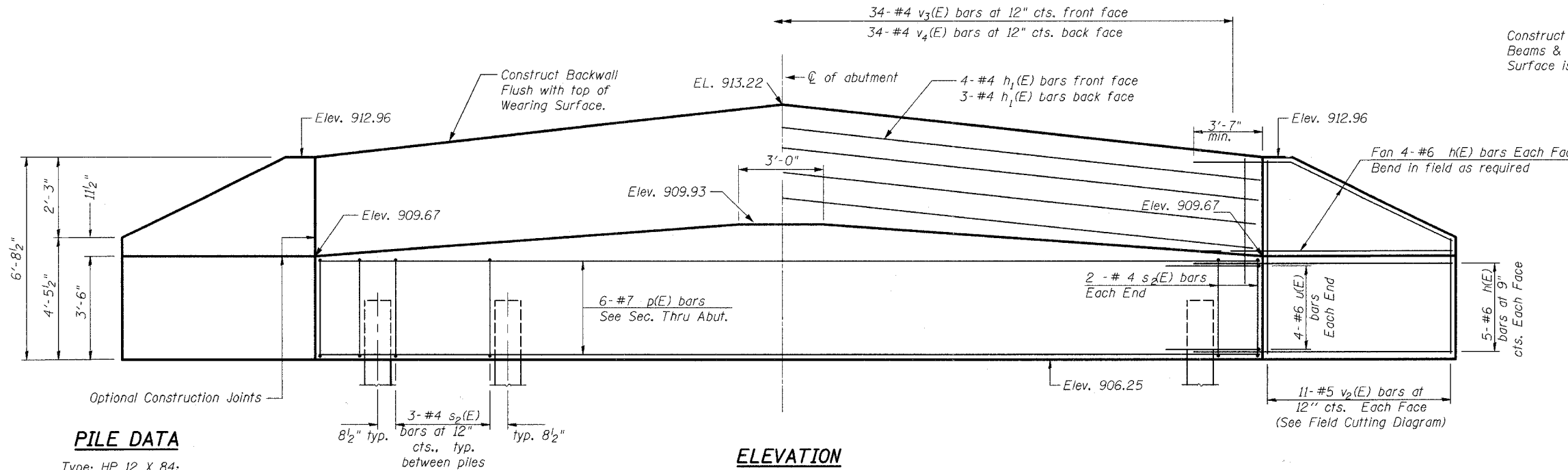
SCALE: DATE: 8/8/2006

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0083	02-00270-00-BR	McHENRY	37	26
FEDERAL ROAD DISTRICT NUMBER 7		ILLINOIS	FEDERAL AID PROJECT #	

SHEET NO. 4
6 SHEETS

CONTRACT NO.: 83872



BILL OF MATERIAL - 2 ABUTMENTS

Bar	No.	Size	Length	Shape
h(E)	72	#6	13'-5"	—
h ₁ (E)	14	#4	32'-8"	—
p(E)	12	#7	32'-8"	—
s ₂ (E)	56	#4	11'-5"	□
u(E)	16	#6	9'-4"	□
v ₂ (E)	44	#5	10'-5"	—
v ₃ (E)	68	#4	4'-10"	—
v ₄ (E)	68	#4	3'-3"	—
Concrete Structures		Cu. Yd.	39	
Reinforcement Bars, Epoxy Coated		Pound	4060	
Structure Excavation		Cu. Yd.	272	
Furnished Steel Piles HP 12 X 48		Foot	1120	
Driving Steel Piles		Foot	1120	
Test Piles		Each	2	

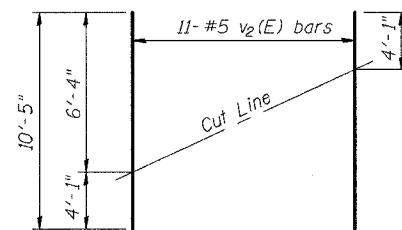
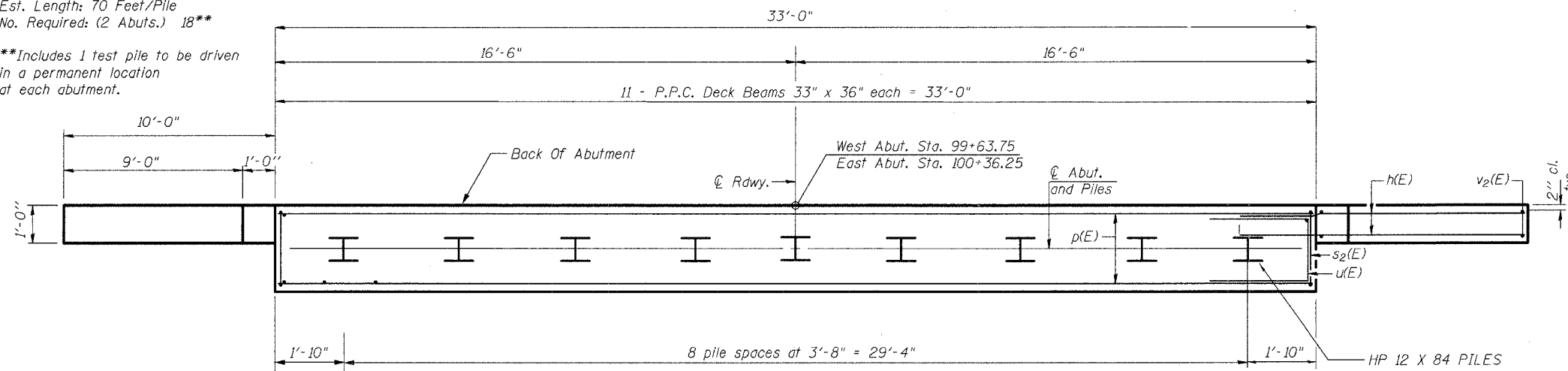
See Next Sheet for pile details

Bars Indicated (E) Shall Be Epoxy Coated

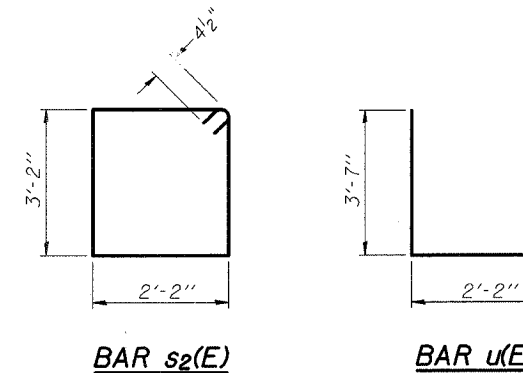
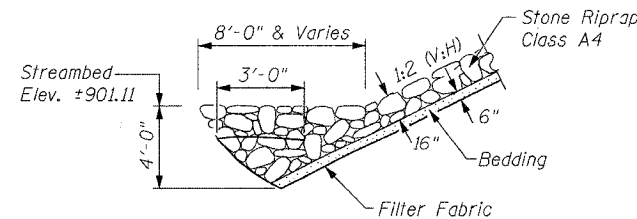
PILE DATA

Type: HP 12 X 84;
Capacity: 45 Tons/Pile
Est. Length: 70 Feet/Pile
No. Required: (2 Abutments) 18**

**Includes 1 test pile to be driven in a permanent location at each abutment.



Order v₂(E) full length. Cut as shown and use remainder of bars in opposite face.
Cost of field cutting rebars shall be incidental to REINFORCEMENT BARS, EPOXY COATED.



DESIGNED	EAK
CHECKED	AJS
DRAWN	RAP
CHECKED	JAR

ILLINOIS DEPARTMENT OF TRANSPORTATION
ABUTMENT AND WINGWALL DETAILS
T.R. 0083 (STREIT ROAD) OVER
NORTH BRANCH OF THE KISHWAUKEE RIVER
T.R. 0083 SECTION 02-00270-00-BR
McHENRY COUNTY
S.N. 056-3171

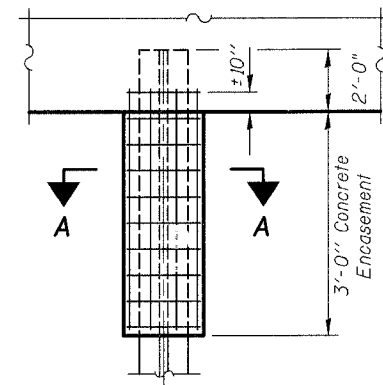
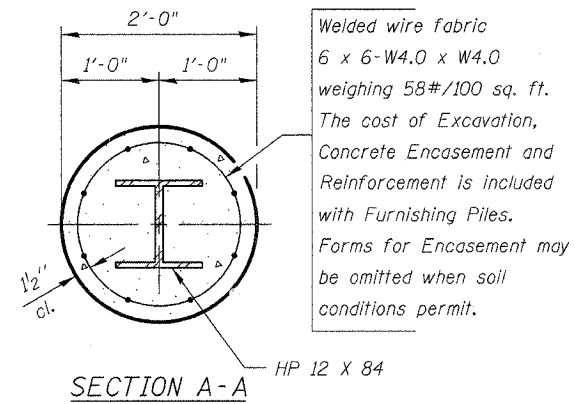
STRAND ASSOCIATES, INC. ENGINEERS

SCALE: DATE: 8/8/2006

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5 6 SHEETS
0083	02-00270-00-BR	McHENRY	37	27	
FEDERAL ROAD DISTRICT NUMBER 7		ILLINOIS	FEDERAL AID PROJECT 1		

CONTRACT NO.: 83872



PILE ENCASEMENT DETAIL

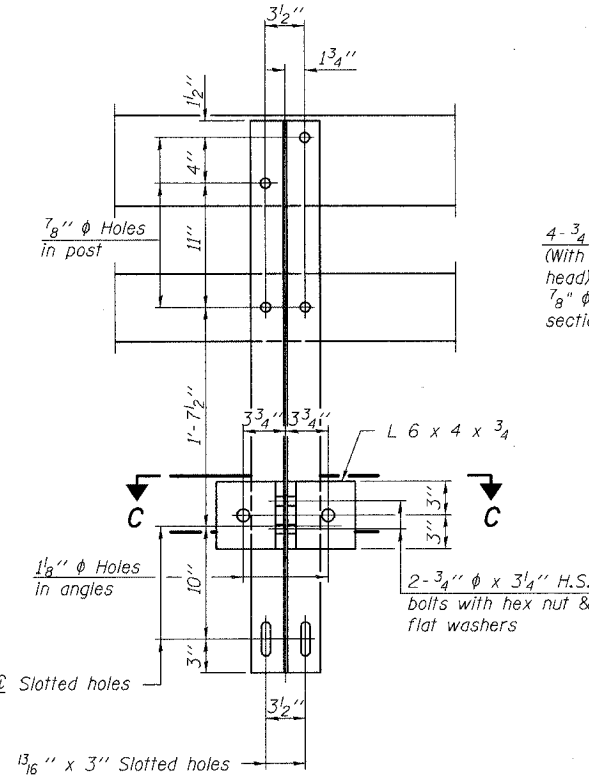
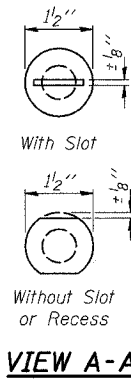
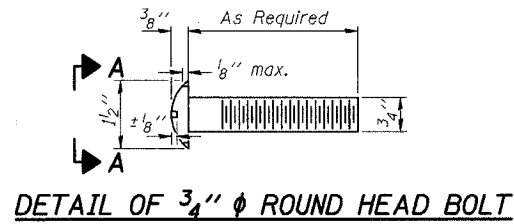
DESIGNED	EAK
CHECKED	AJS
DRAWN	RAP
CHECKED	JAR

	ILLINOIS DEPARTMENT OF TRANSPORTATION
	PILE DETAILS T.R. 0083 (STREIT ROAD) OVER NORTH BRANCH OF THE KISHWAUKEE RIVER T.R. 0083 SECTION 02-00270-00-BR McHENRY COUNTY S.N. 056-3171
	SCALE: DATE: 8/8/2006

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

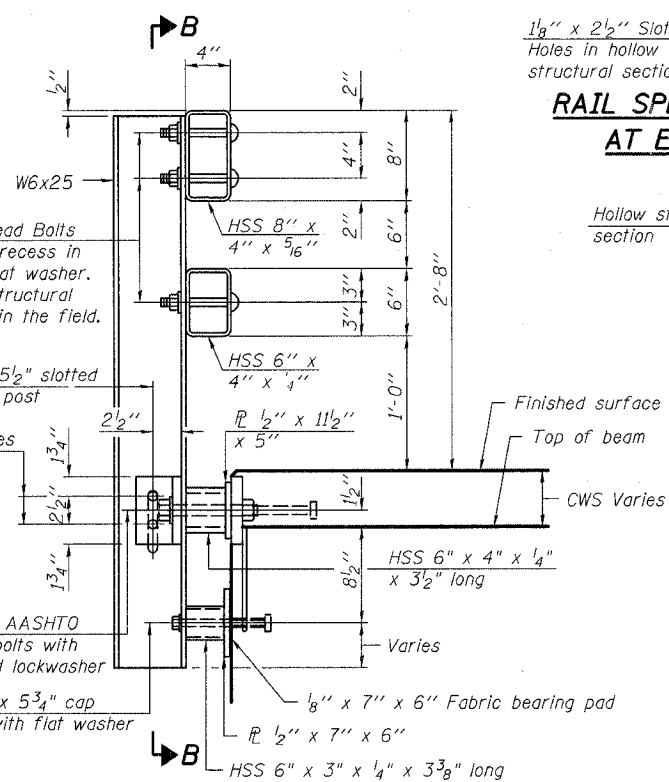
ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO. 6
0083	02-00270-00-BR	McHENRY	37 28	6 SHEETS
FEDERAL ROAD DISTRICT NUMBER 7		ILLINOIS	PROJECT	

CONTRACT NO.: 83872

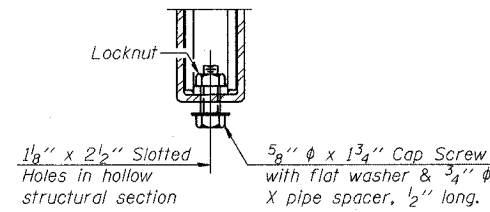


SECTION B-B

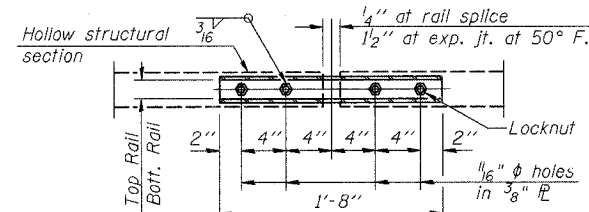
4- 3/4" ϕ x 6" Round Head Bolts (With slot or approved recess in head) with locknut & flat washer. 7/8" ϕ holes in hollow structural section may be drilled in the field.



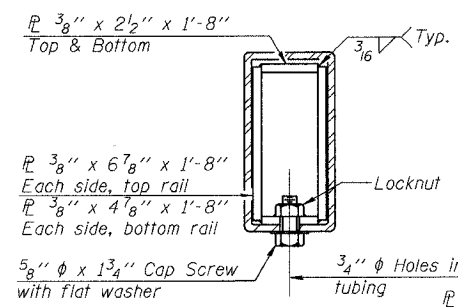
SECTION AT RAIL POST



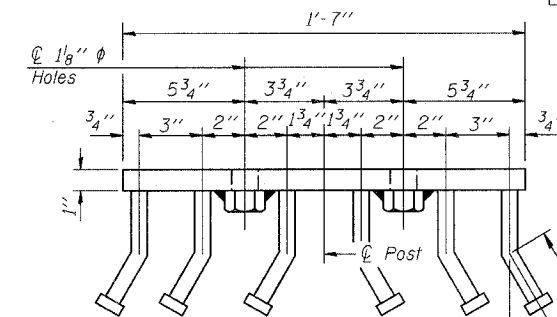
RAIL SPLICE CONNECTION AT EXPANSION JT.



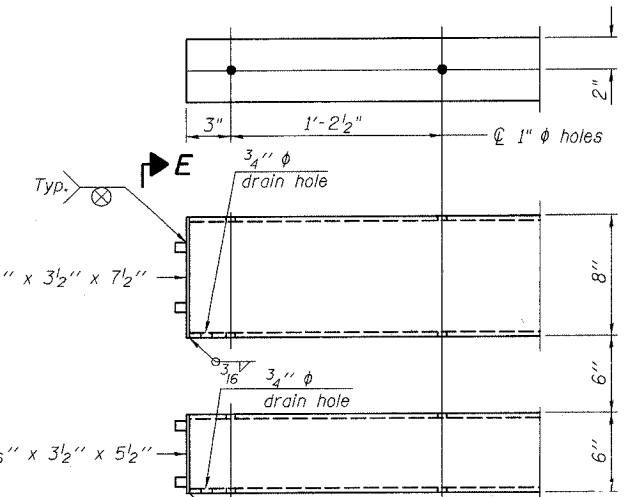
PLAN-BOTT. SPLICE P TYPICAL



SECTION AT RAIL SPLICE



VIEW D-D



END OF RAIL DETAILS

NOTES

Hollow structural sections shall conform to the requirements of ASTM designation A 500 Grade B Structural Steel Tubing and shall meet the longitudinal CVN requirements of 15 ft-lbs at 0° F.

All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36 except posts and angles shall conform to AASHTO M 270, Grade 50.

Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A 307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M 164.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized according to AASHTO M 232.

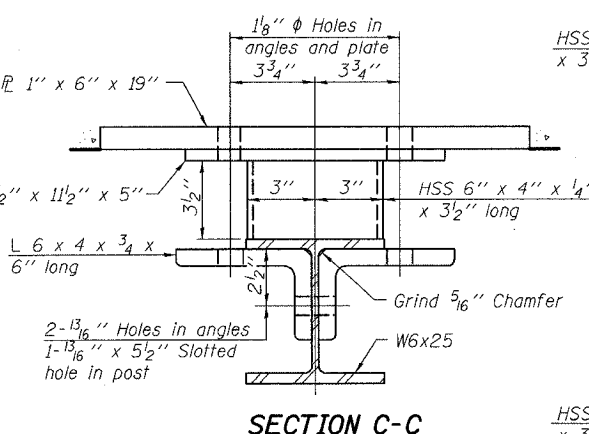
All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. Galvanized rail shall not be painted.

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for Steel Bridge Rail, Type SM.

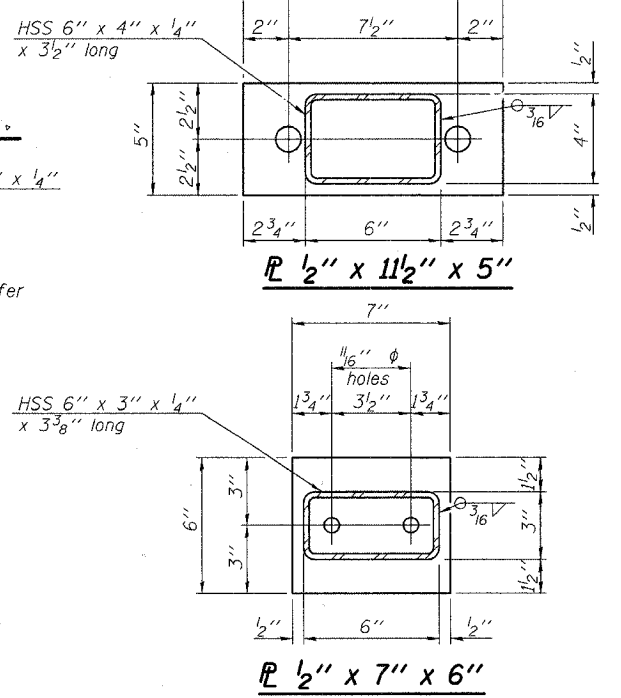
All field drilled holes shall be coated with an approved zinc rich paint before erection.

For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Bridge Rail, Type SM.

The 3/4" ϕ high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened according to Article 505.04(f)(2) of the Standard Specifications. The 1" ϕ high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/8 turn. The 5/8" ϕ cap screws in bottom of posts shall be tightened to a snug fit only.



SECTION C-C



ANCHOR DEVICE

* Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Bridge Rail, Type SM	Foot	140

**TYPE SM
STEEL BRIDGE RAIL SIDE MOUNTED
WITH CONCRETE WEARING SURFACE**

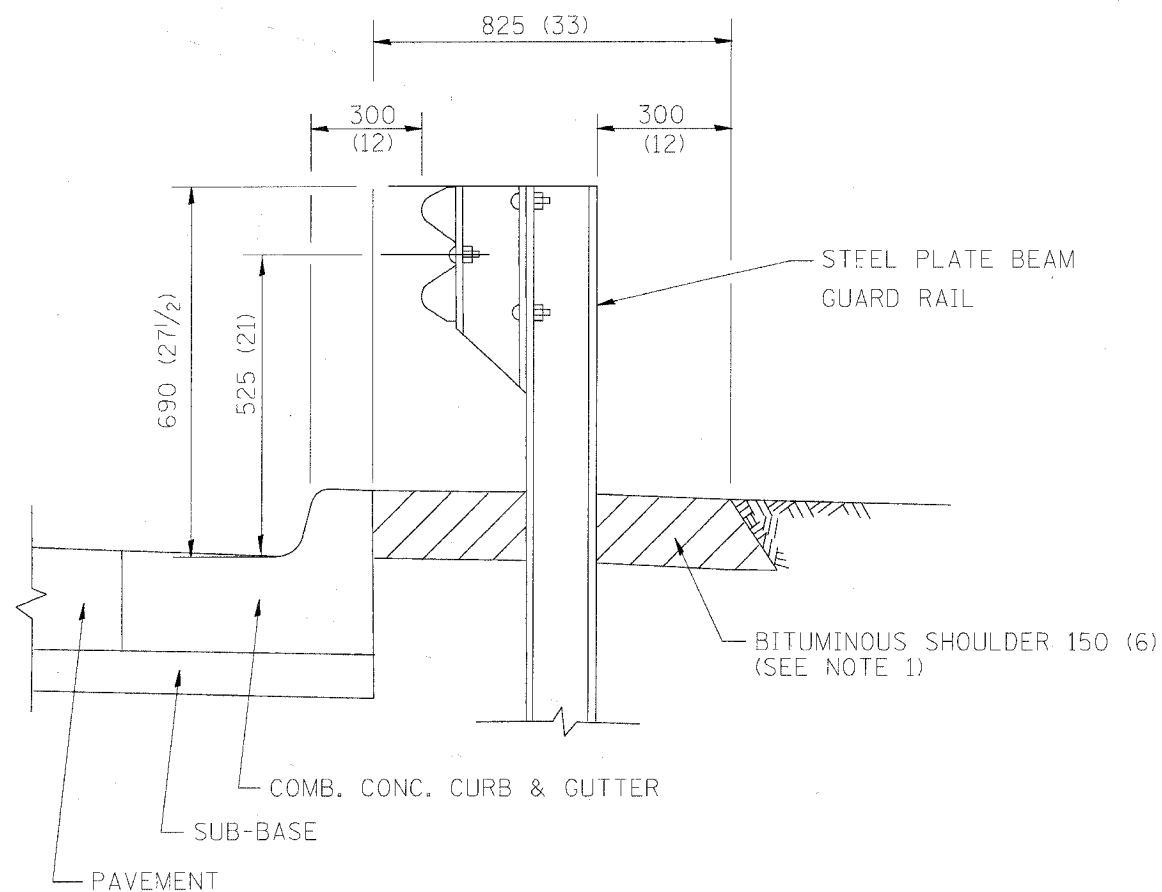
DESIGNED	EAK
CHECKED	AJS
DRAWN	RAP
CHECKED	JAR

10-28-05 (6'-3" Maximum Post Spacing) (5" minimum to 7/8" maximum CWS thickness)



ILLINOIS DEPARTMENT OF TRANSPORTATION
RAILING
T.R. 0083 (STREIT ROAD) OVER
NORTH BRANCH OF THE KISHWAUKEE RIVER
T.R. 0083 SECTION 02-00270-00-BR
McHENRY COUNTY
S.N. 056-3171

SCALE: DATE: 8/8/2006

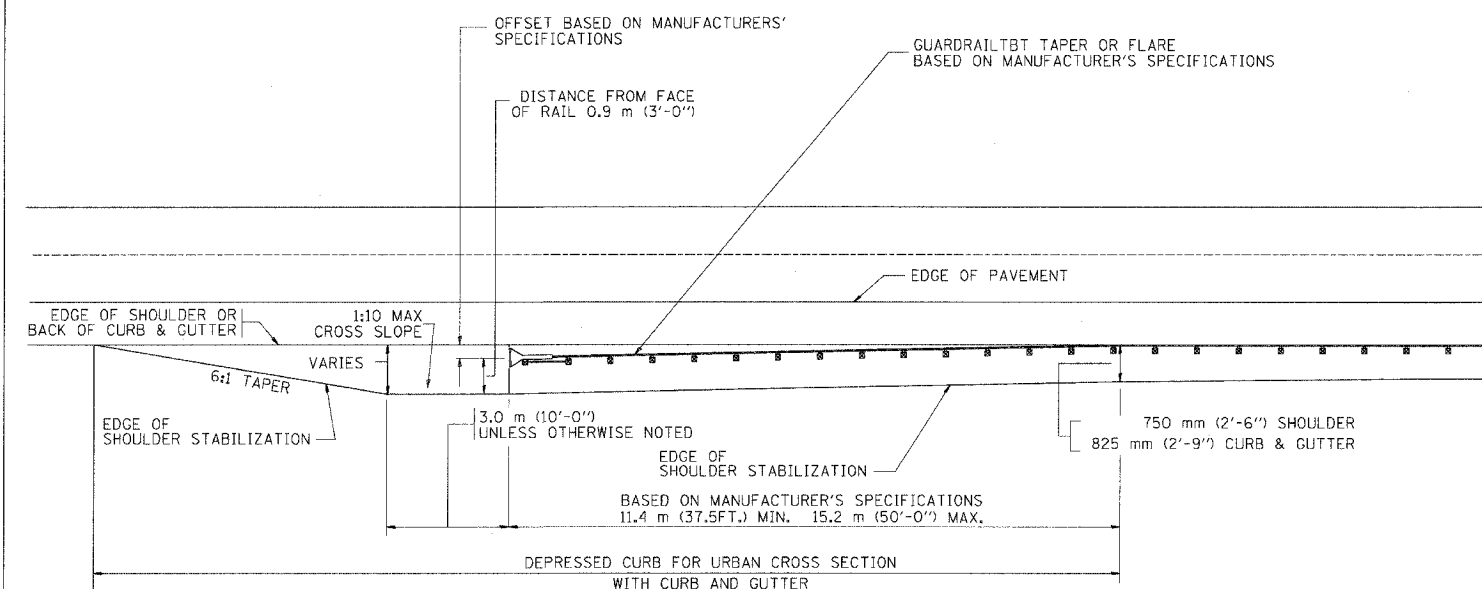


- NOTES: 1. THE BITUMINOUS SHOULDER SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL
2. GUARD RAIL MAY BE PLACED AT THE BACK OF CURB WHEN DIRECTED BY THE ENGINEER.

BASIS OF PAYMENT: BITUMINOUS SHOULDER 150 (6) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER m² (sq. yd.) AS "BITUMINOUS SHOULDER 150 (6)."

STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT TO CURB AND GUTTER
 [FOR ROADWAY SPEED 60 kmh (35 MPH) TO 70 kmh (45 MPH)]



STABILIZATION AT TBT TY. 1 SPL.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DETAILS FOR
 STEEL PLATE BEAM GUARD RAIL
 ADJACENT TO CURB AND GUTTER
 STABILIZATION AT TBT TY 1 SPL.

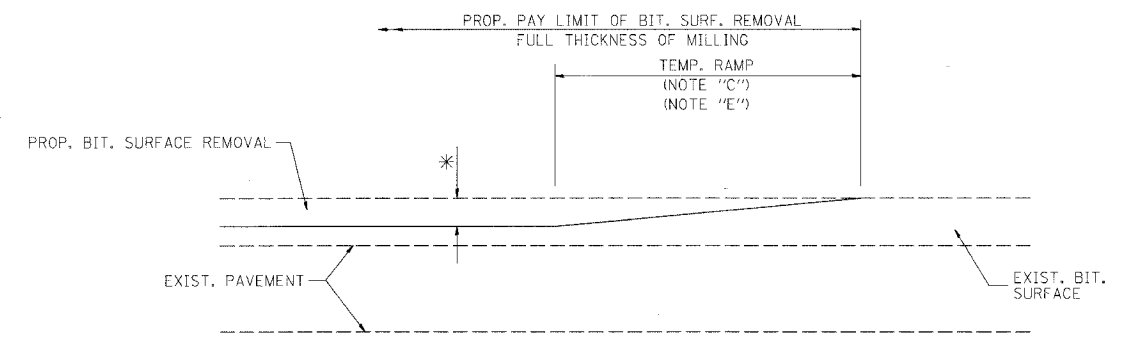
REVISIONS	
NAME	DATE
M. DE YONG	09-22-90
M. DE YONG	07-14-92
R. SHAH	09/09/94
R. SHAH	10/25/94
R. SHAH	02/23/95
A. ABBAS	03/21/97
E. GOMEZ	08/28/00

SCALE: NONE
 DATE 10/18/2002

DRAWN BY Jls
 CHECKED BY

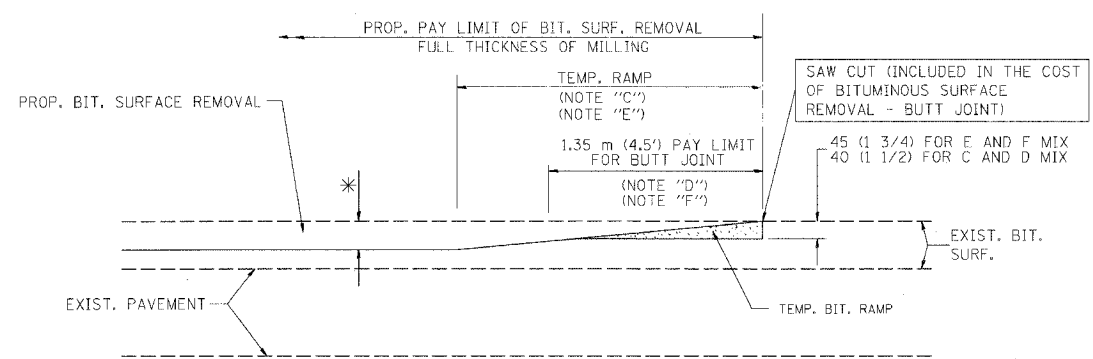
BD6600-10 (BD 34)
 REVISION DATE: 08/28/00

Contract 83872



MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND BIT. TAPER SEE DETAIL BELOW)

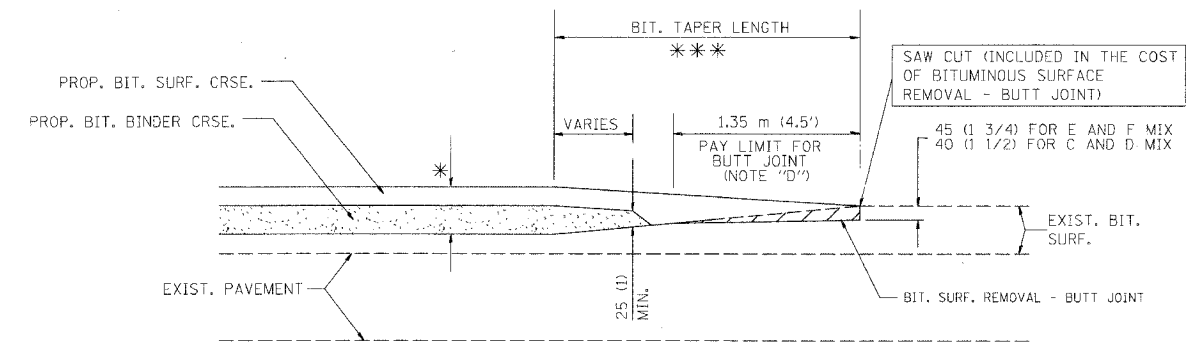
OPTION 1



BITUMINOUS CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND BIT. TAPER SEE DETAIL BELOW)

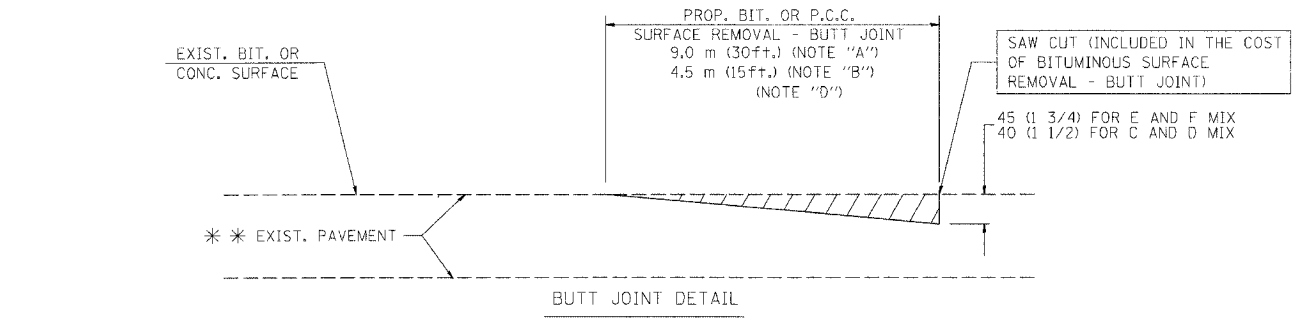
OPTION 2

TYPICAL TEMPORARY RAMP

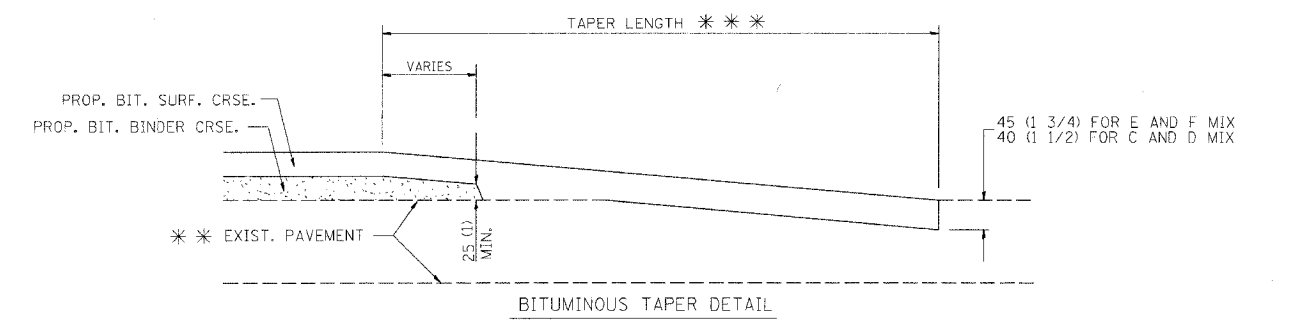


BUTT JOINT AND BITUMINOUS TAPER

TYPICAL BUTT JOINT AND BITUMINOUS TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



BITUMINOUS TAPER DETAIL

TYPICAL BUTT JOINT AND BITUMINOUS TAPER FOR RESURFACING ONLY

*** PC CONCRETE, BITUMINOUS OR BITUMINOUS RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING BITUMINOUS SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED BITUMINOUS COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 900 (3 ft.) PER INCH OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 1.35 m (4.5') TEMP. BIT. RAMP WILL BE PAID AS "BITUMINOUS SURFACE REMOVAL - BUTT JOINT".
- G: SEE ARTICLE 406.18 AND 406.24 OF THE STANDARD SPECIFICATIONS FOR "BITUMINOUS AND PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 6.1 m (20') PER 25 (1) RESURFACING (NOTE "A")
3.0 m (10') PER 25 (1) RESURFACING (NOTE "B")

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

BASIS OF PAYMENT:
THE BUTT JOINT WILL BE PAID FOR PER SQUARE METER (SQUARE YARD.) AS "BITUMINOUS SURFACE REMOVAL - BUTT JOINT" OR AS "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01

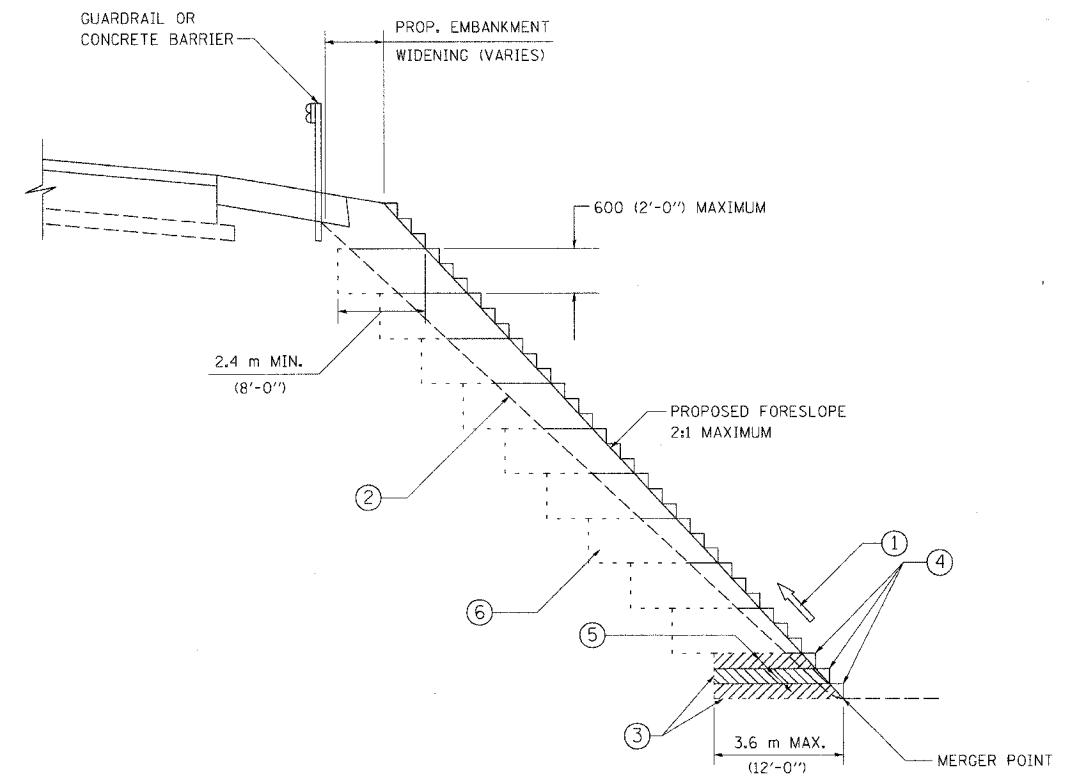
ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND BITUMINOUS TAPER DETAILS

SCALE: NONE
DATE PLOTTED: 10/18/2002
DRAWN BY: BD400-05 (VI-BD32)
CHECKED BY:
REVISION DATE: 04/06/01

F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0083	02-002700-00-BR	McHenry	37	31
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

Contract 83872



TYPICAL BENCHING DETAIL
FOR EMBANKMENT

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.04 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 200 (8-INCH) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.06 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION (SPECIAL)". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

ILLINOIS DEPARTMENT OF TRANSPORTATION

BENCHING DETAIL
FOR EMBANKMENT
WIDENING

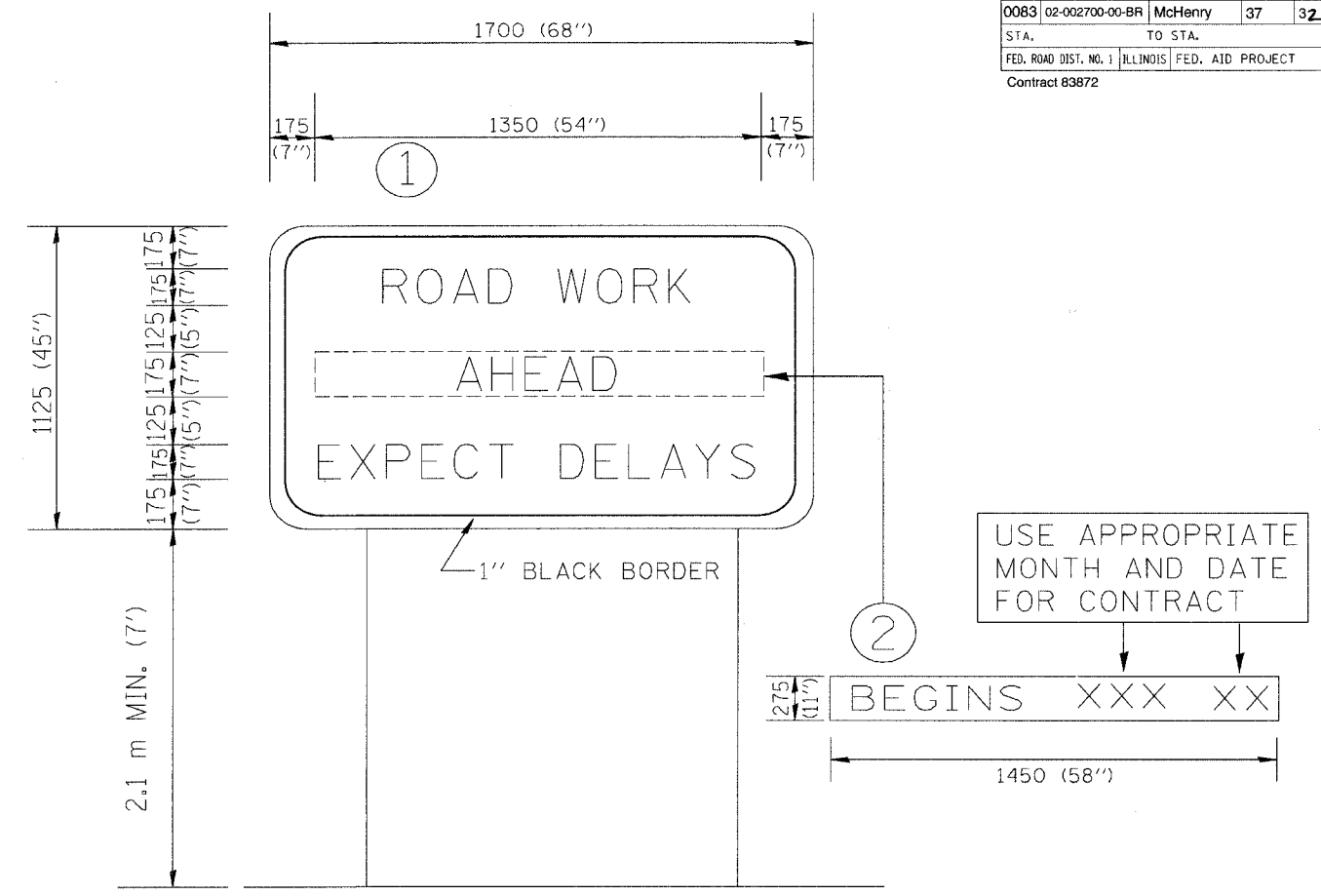
REVISIONS	
NAME	DATE

SCALE: NONE
DATE 10/18/2002

DRAWN BY: CADD
CHECKED BY: S.E.B.
BD-51

REVISION DATE:

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0083	02-002700-00-BR	McHenry	37	32
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
Contract 83872				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 2.3 SQ. M. (25.70 SQ. FT.)

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
R. MIRS	9-15-97	TEMPORARY INFORMATION SIGNING
R. MIRS	2-11-97	
T. RAMMACHER	2-2-99	

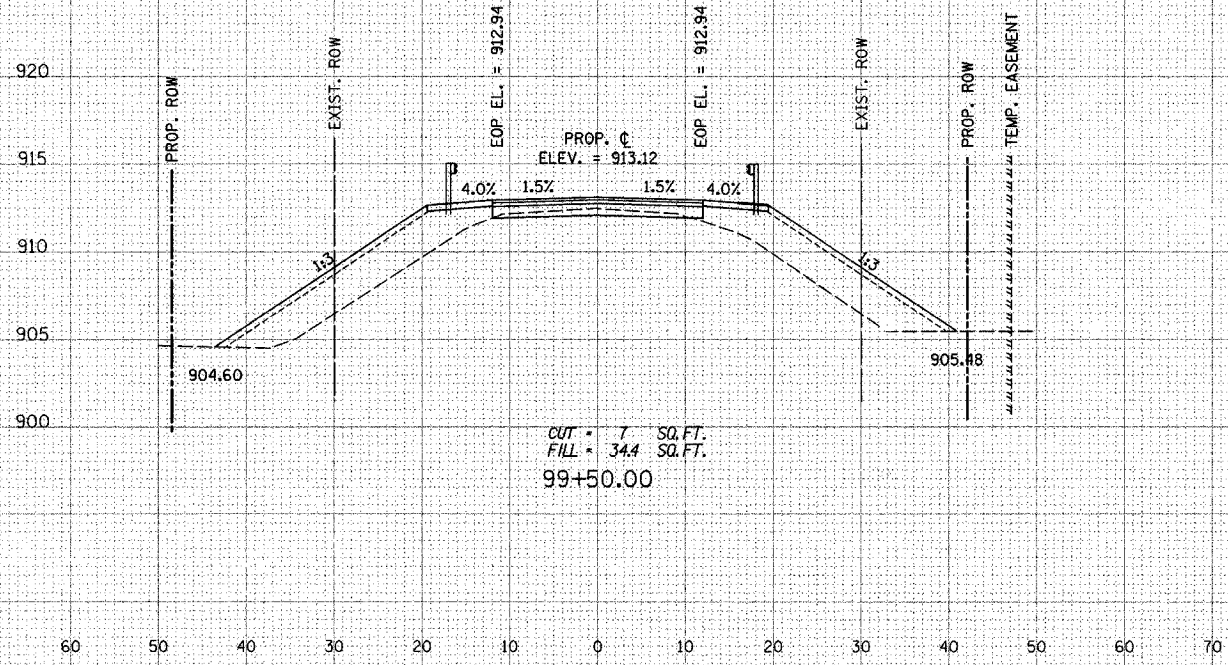
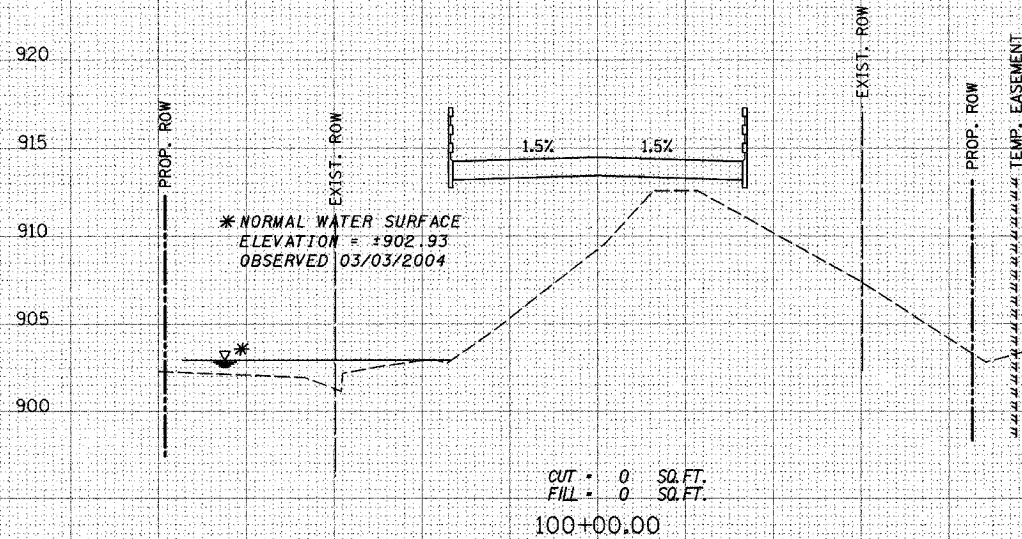
SCALE: DATE 10/18/2002 DRAWN BY: BUR. OF DESIGN CHECKED BY:

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0083	02-00270-00-	MCHENRY	37	35
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT: 83472	70			

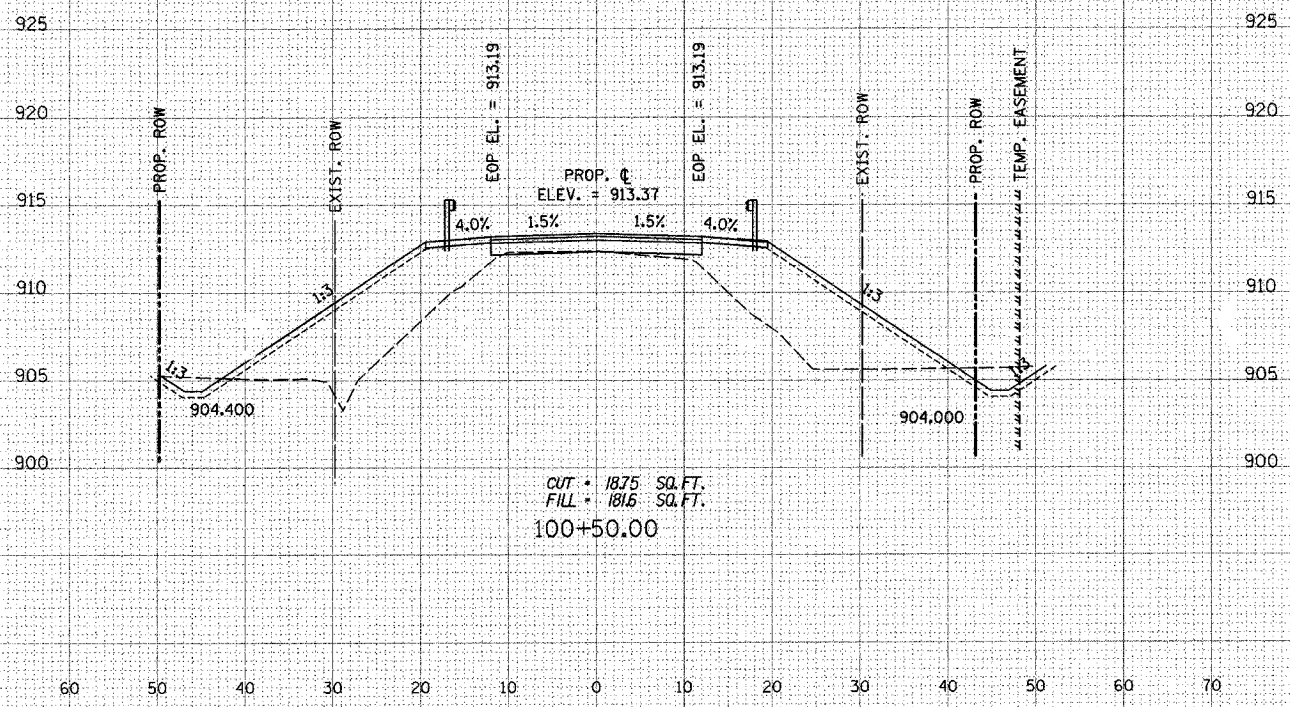
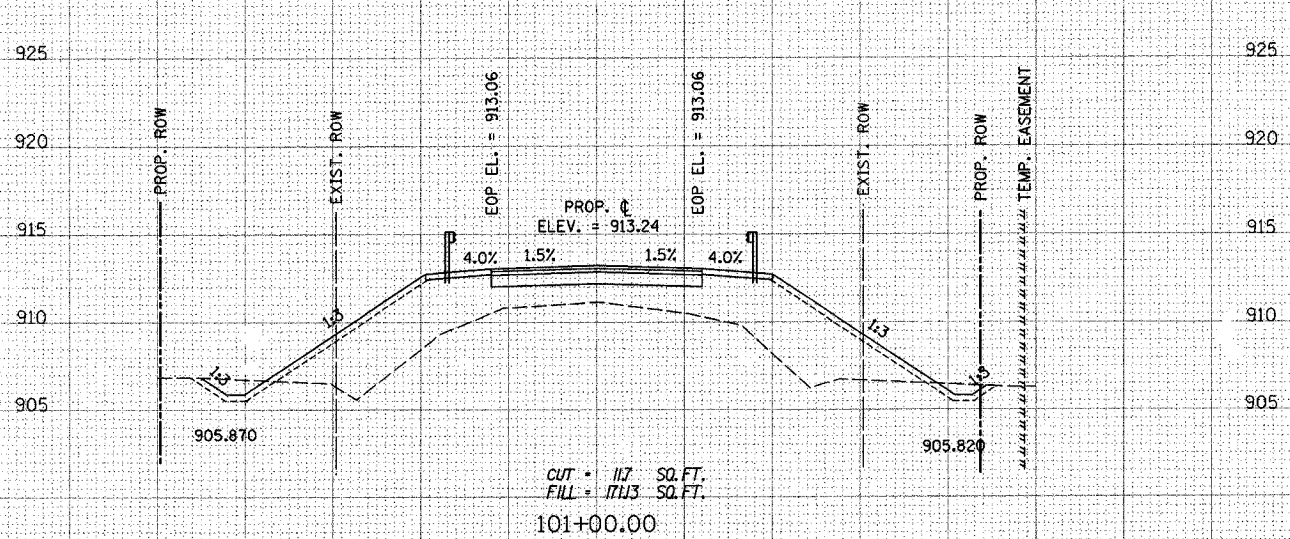
FINAL SURVEY	DATE
BY	
NO.	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
BY	
NO.	
AREAS CHECKED	

60 50 40 30 20 10 0 10 20 30 40 50 60 70



60 50 40 30 20 10 0 10 20 30 40 50 60 70

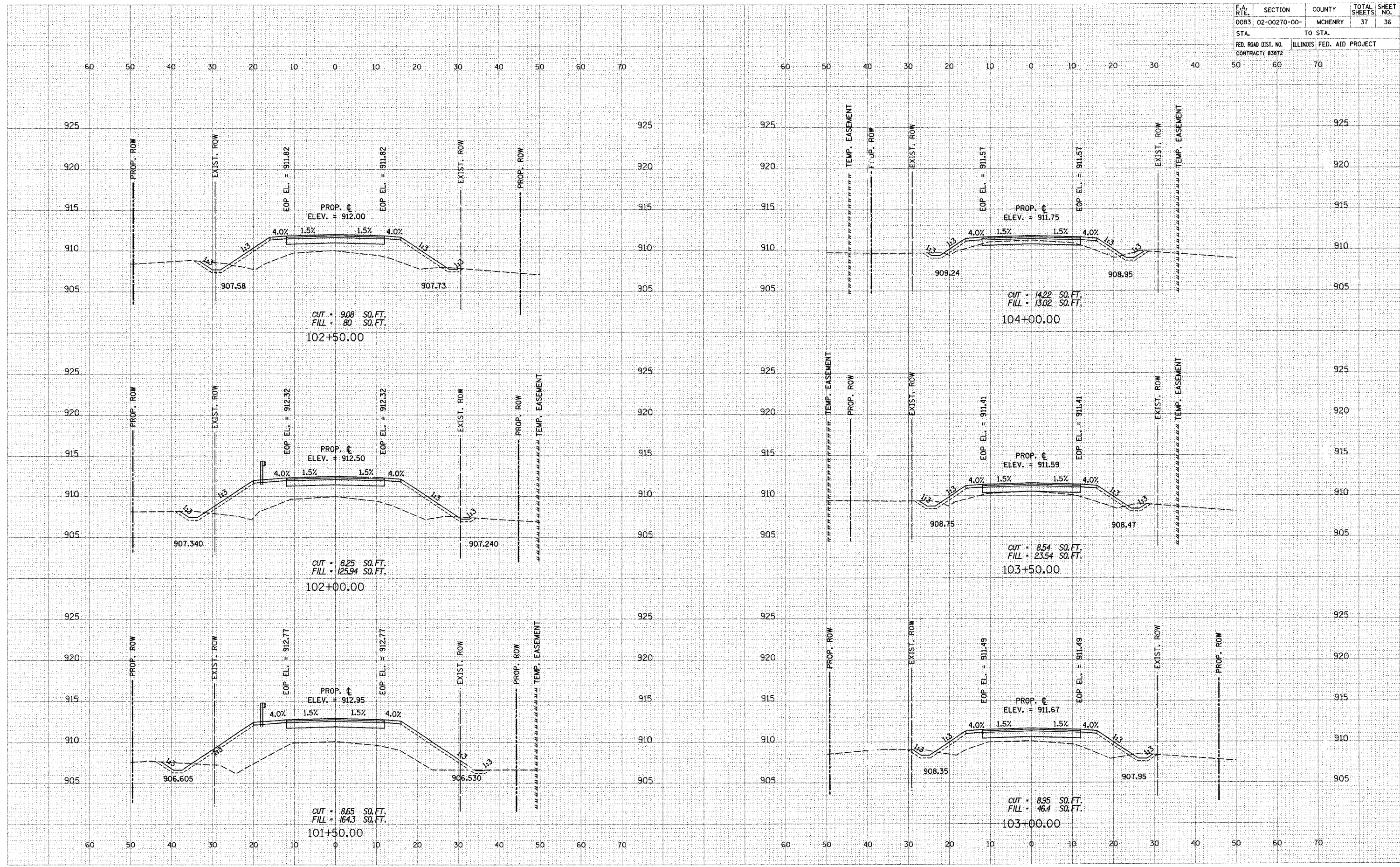


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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0083	02-00270-00-	MCHENRY	37	36
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT: 83872				

FINAL SURVEY
 SURVEYED BY: _____ DATE: _____
 SURVEYED ON: _____
 NOTE BOOK NO. _____
 TEMPLATE NO. _____
 AREAS CHECKED: _____

ORIGINAL SURVEY
 SURVEYED BY: _____ DATE: _____
 SURVEYED ON: _____
 NOTE BOOK NO. _____
 TEMPLATE NO. _____
 AREAS CHECKED: _____



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0083	02-00270-00-	MCHENRY	37	37
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

ORIGINAL SURVEY BY DATE
 SURVEYED BY DATE
 NOTE BOOK NO.
 TEMPLATE NO.
 AREAS CHECKED
 AREAS CHECKED

