

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
609	76-3BR	ST. CLAIR	47	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PROPOSED
HIGHWAY PLANS**

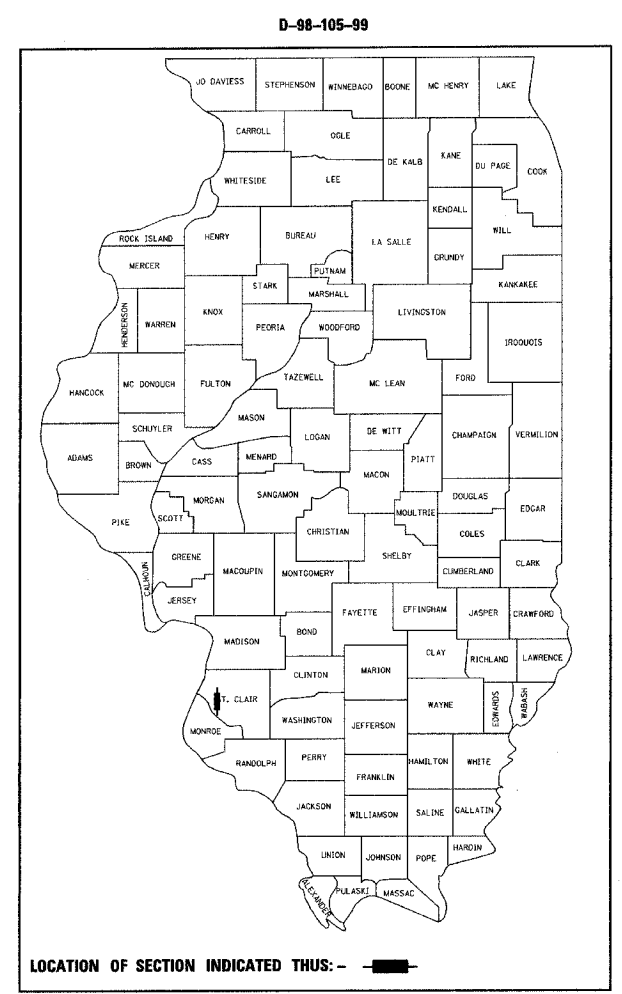
FAP ROUTE 609 (IL RTE 163)
SECTION 76-3BR
STRUCTURE REPLACEMENT
ST. CLAIR COUNTY
PROJECT: ACRF-0609(003)
C-98-101-05

INDEX OF SHEETS

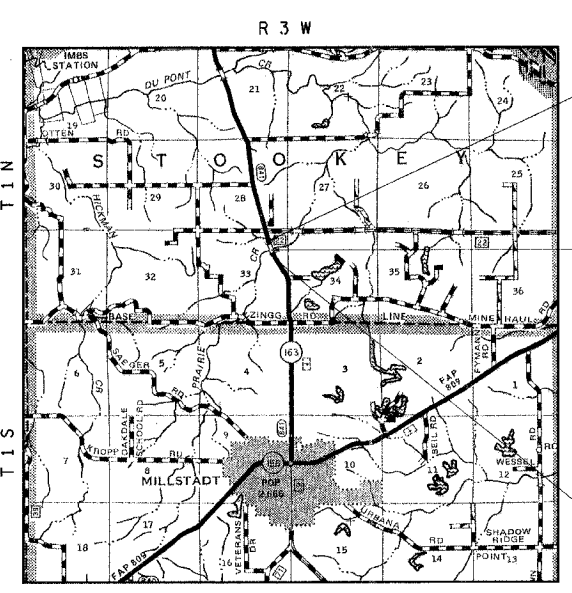
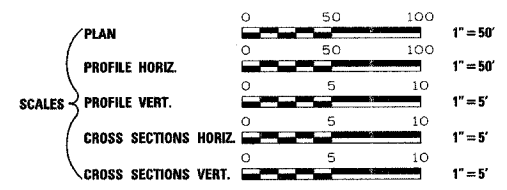
SHEET NO.	DESCRIPTION
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STATE STANDARDS

000001-04	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001	AREAS OF REINFORCEMENT REBARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-02	TEMPORARY EROSION CONTROL SYSTEMS
420401-05	BRIDGE APPROACH PAVEMENT
482001	BITUMINOUS SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
503001-02	CONCRETE PARAPET SLIP-FORMING OPTION
515001-02	NAME PLATE FOR BRIDGES
542401	METAL END SECTION FOR PIPE CULVERTS
630001-05	STEEL PLATE BEAM GUARDRAIL
630301-03	SHOULDER WIDENING FOR TYPE (SPECIAL) GUARDRAIL TERMINALS
631031-05	TRAFFIC BARRIER TERMINAL, TYPE 6
635001	DELINEATORS
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-01	REFLECTOR MARKER AND MOUNTING DETAILS
701006-02	OFF-RD OPERATIONS 2L, 2W 4.5 m (15') TO PAVEMENT EDGE FOR SPEEDS ≥ 45 MPH
701201-02	LANE CLOSURE, 2L, 2W, DAY ONLY ON-RD TO 600 mm (24") OFF-RD FOR SPEEDS > 45 MPH
701301-02	LANE CLOSURE 2L, 2W SHORT TERM 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
701321-08	LANE CLOSURE 2L, 2W BRIDGE REPAIR WITH BARRIER
701326-02	LANE CLOSURE 2L, 2W PAVEMENT WIDENING FOR SPEEDS ≥ 45 MPH
702001-05	TRAFFIC CONTROL DEVICES
704001-02	TEMPORARY CONCRETE BARRIER
720001	SIGN PANEL MOUNTING DETAILS
720006	SIGN PANEL ERECTION DETAILS
780001-01	TYPICAL PAVEMENT MARKINGS
781001-02	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS



LOCATION OF SECTION INDICATED THUS: -



END PROJECT
STA. 141+90.00

SEC. 76-3BR
38° 29' 46.4" N LAT
90° 05' 42.3" W LONG
CONSISTS OF REMOVING AND REPLACING THE EXISTING STRUCTURE NO. 082-0134 AT STA. 138+66.06 WITH A SINGLE SPAN PRECAST, PRESTRESSED CONCRETE I-BEAM STRUCTURE WITH CONCRETE SPILL-THRU ABUTMENTS WITH A 40' CLEAR ROADWAY WIDTH, AND RELATED ROADWAY WORK.
PROP. SN 082-0305

BEGIN PROJECT
STA. 135+60.00

GROSS LENGTH = 630.00 FEET = 0.119 MILES
NET LENGTH = 630.00 FEET = 0.119 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

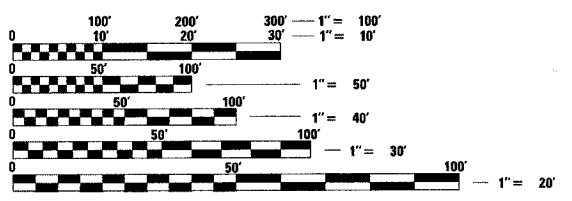
SUBMITTED Aug 31 20 05
Mary C. Parnis
DEPUTY DIRECTOR OF HIGHWAYS
REGION FIVE ENGINEER

October 14, 20 05
Mike Hine
ENGINEER OF DESIGN AND ENVIRONMENT

October 14, 20 05
Eric E. Harms
DEPUTY DIRECTOR, DIVISION OF HIGHWAYS

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

PROJECT ENGINEER: PATTI LEBEAU (618) 346-3179
SQUAD CONTACT: ARTHUR MUEHLFELD (618) 346-3209



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.

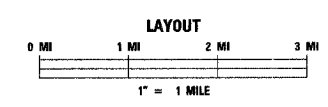
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

CONTRACT NO. 76268

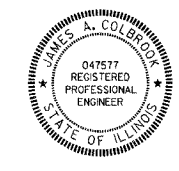
ADT
CURRENT: 4600 (2002)
PROJECTED: 5800 (2022)

RURAL MINOR ARTERIAL

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



LATITUDE 38° 29' 46.4" N
LONGITUDE 90° 05' 42.3" W



SIGNED James A. Colbrunn DATE 07-22-05
EXPIRES: 11/30/05

REVISION	DATE	BY

PLANS PREPARED BY:

GREENE & BRADFORD, INC.
OF SPRINGFIELD
REGISTERED PROFESSIONAL ENGINEERS
PROFESSIONAL ENGINEERING CORPORATION
1077 W. BEAULIEU, SUITE 200, SPRINGFIELD, ILL. 62761

COMPUTER FILE NO.
COV163BR
PROJECT: 02076
7/22/05-MDS

GENERAL NOTES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
609	***	ST. CLAIR	46	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
*** SEC. 76-3BR				
CONTRACT NO. 76268				

See cross sections for special ditches and backslopes.

The Contractor shall seed all disturbed areas within the project limits. Seeding Class 2 shall be used.

When mulch with emulsified asphalt is applied, it will be the contractor's responsibility to cover or protect all traffic signs, guardrail and curb. Any signs, guardrail or curbs which become covered with asphaltic material shall be cleaned by the Contractor at his own expense.

Mulch on temporary seeding shall be MULCH METHOD 1.

The following Mixture Requirements are applicable for this project:

ADT (Construction Yr):	5001
MU%:	2.4
SU%:	4
20 YR. ESAL'S:	0.93

Mixture Use(s):	SURFACE	LEVEL BINDER	BINDER	INCIDENTAL SURF
AC/PG:	PG 64-22	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	10%	10%	15%	10%
Design Air Voids	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70
Mixture Composition (Gradation Mixture)				
Friction Aggregate	Mixture "D"	Mixture "C"	Mixture "B"	Mixture "C"

Mixture Use(s):	SHOULDERS	TOP LIFT SHOULDERS	BRIDGE APPROACH PAVEMENT CONNECTOR FLEXIBLE BINDER
AC/PG:	PG 58-22	PG 58-22	PG 64-22
RAP % (MAX)	30%	30%	15%
Design Air Voids	2.0% @ Ndes=30	**2.0% @ Ndes=30	4.0% @ Ndes=70
Mixture Composition (Gradation Mixture)			
Friction Aggregate	BAM	BAM	Mixture "B"

** Top Lift Shoulders - Design this mix at 2.0% voids and add asphalt to reduce voids to 1.5%.

Plan quantities for Bituminous Concrete Surface Course items are calculated using a weight of 112 lb/sq yd/in (59.8 kg/sq m/25 mm thickness)

Temporary tapers shall be constructed on all bridges when the adjacent resurfacing cannot be placed before winter. Quantities have been included in the plans for a 20' to 1" H/V taper, varying in depth from 0" to 2 1/4". The amount to be removed is approximately 15 tons. The taper shall be removed before resurfacing and the cost of the work will be included in the unit price for TEMPORARY RAMP.

A Nationwide 404 Permit, as shown in the Special Provisions, has been issued for this project and the conditions of that permit must be adhered to.

The new number for this structure will be 082-0305.

The contractor shall submit four copies of the required shop drawings for review and approval to the Bureau of Bridges and Structures, 2300 South Dirksen Parkway, Springfield, IL 62764. After approval of initial submittal, the contractor shall submit one set of shop drawings to the Engineer of Materials, 126 East Ash Street, Springfield, IL 62706, and eight (8) sets of shop drawings to be distributed to:

- Region 5 Engineer (1)
- Fabricator (1)
- Contractor (2)
- Resident Engineer (2)
- District 8 Materials Section (2)

The review and approval of temporary sheet piling will require 4 to 6 weeks. The contractor shall schedule his work accordingly.

The thickness for the Bridge Approach Pavement Connector (Flexible) adjacent to existing pavement shall be a minimum of 12". The material shall be 2" Bituminous Concrete Surface Course, Superpave, Mixture D, N70, and the remaining thickness shall be Bituminous Concrete Binder Course, Superpave.

The proposed pipes for entrances and side roads shall be placed in line with the existing or proposed ditch line.

An estimated quantity of 200 tons of Aggregate Surface Course, Type B has been added to the plans for Temporary Access.

PLAN	REVISED	DATE
NOTE BOOK	ALIGNED	
	CHECKED	
	FILE NAME	

PROFILE	REVISED	DATE
NOTE BOOK	ALIGNED	
	CHECKED	
	FILE NAME	

FILE NAME	DATE
SCALE	
OPERATOR	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

FAP 609 (IL RTE. 163)
SECTION 76-3BR
ST. CLAIR COUNTY

SCALE: VERT. _____
HORIZ. _____
DATE 10/15/04

DRAWN BY: SUTHEARD
DESIGNED BY: SUTHEARD
CHECKED BY: COLBROOK

COMPUTER FILE NO. SUM163BR
PROJECT 02076
6/30/05-MDS

GREENE & BRADFORD, INC.
OF SPRINGFIELD
ENGINEERS ARCHITECTS
SURVEYORS

GENERAL NOTES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
609	***	ST. CLAIR	46	3
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
*** SEC. 76-3BR				
CONTRACT NO. 76268				

Illinois State Law requires a 48-hours notice be given to all Utilities before digging. Field marking of facilities may also be obtained by calling J.U.L.I.E. and for non-J.U.L.I.E. members, the utility company directly. Agencies known to have facilities within the project area are as follows:

UTILITY COMPANY	TYPE OF UTILITY
Ameritech*	Telephone
GTE*	Telephone
Charter Communications*	Cable - Television
Illinois American Water Co.*	Water
AmerenIP*	Gas & Electric
Monroe County Electric Co.*	Electric
Charter Communications*	Cable - Television
Phillips Pipeline Co.*	Petroleum Pipeline
Mississippi Rivers Gas Transmission	Gas Pipeline

(Members of J.U.L.I.E. (800) 892-0123 are indicated by *. Non-J.U.L.I.E. Members must be notified individually.)

COMMITMENTS

1. The apron of the entrance to Bridge Lane Road, which is a privately owned road, is now concrete the first 15 feet. The owners have requested the entrance be placed in like kind during construction.
2. Tree felling is restricted to the dates between September 30 and April 1st of any year, due to the suitable endangered Indiana bat habitat.

PLAN	SURVEYED	DATE
NOTE BOOK	ADJUSTED	
NO.	BY	
	RT. OF WAY CHECKED	
	PAID FILE NAME	

PROFI	SURVEYED	DATE
NOTE BK	ADJUSTED	
NO.	BY	
	RT. OF WAY CHECKED	
	PAID FILE NAME	

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 PLOT SCALE = \$PSCALE
 PLOT DATE = 8/29/00
 OPERATOR = markmck

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

FAP 609 (IL RTE. 163)
 SECTION 76-3BR
 ST. CLAIR COUNTY

SCALE: VERT.
 DATE 6/13/03

DRAWN BY: SUTHEARD
 DESIGNED BY: SUTHEARD
 CHECKED BY: COLBROOK

GREENE & BRADFORD, INC.
 OF SPRINGFIELD

COMPUTER FILE NO.
 SUM163BR
 PROJECT 02076
 6/20/05-MDS

SUMMARY OF QUANTITIES

F.A.P. SECTION COUNTY TOTAL SHEET
 RTE. 609 *** ST. CLAIR 46 4
 STA. TO STA.
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
 *** SEC. 76 BR-1
 CONTRACT NO. 76268

SUMMARY OF QUANTITIES					
CODE NO.	ITEM	UNIT	801.FED./201.STATE TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				X081-2A	SFTY-3N
20100500	TREE REMOVAL, ACRES	ACRE	0.3	0.3	
20200100	EARTH EXCAVATION	CU YD	344	344	
20300100	CHANNEL EXCAVATION	CU YD	940	940	
20400800	FURNISHED EXCAVATION	CU YD	1,711	1,711	
20700400	POROUS GRANULAR EMBANKMENT (SPECIAL)	CU YD	319.2	319.2	
25000200	SEEDING, CLASS 2	ACRE	1.1	1.1	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	99	99	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	99	99	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	99	99	
25100105	MULCH, METHOD 1	ACRE	3.3	3.3	
25100115	MULCH, METHOD 2	ACRE	1.1	1.1	
28000255	TEMPORARY EROSION CONTROL SEEDING	ACRE	3.3	3.3	
28000300	TEMPORARY DITCH CHECKS	EACH	2	2	
28000400	PERIMETER EROSION BARRIER	FOOT	1,002	1,002	
28000500	INLET AND PIPE PROTECTION	EACH	1	1	
28100107	STONE RIPRAP, CLASS A4	SQ YD	581	581	
28100707	STONE DUMPED RIPRAP, CLASS A4	SQ YD	63	63	
28200200	FILTER FABRIC	SQ YD	644	644	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	262	262	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	123	123	
40600300	AGGREGATE (PRIME COAT)	TON	4	4	
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	480	480	
40600990	TEMPORARY RAMP	SQ YD	268	268	
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	244	244	
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	50	50	
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	84	84	
44000100	PAVEMENT REMOVAL	SQ YD	243	243	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	342	342	
44000700	APPROACH SLAB REMOVAL	SQ YD	148	148	
44001430	BITUMINOUS SHOULDER REMOVAL	SQ YD	210	210	
44004000	PAVED DITCH REMOVAL	FOOT	33	33	
48100500	AGGREGATE SHOULDERS, TYPE A 6"	SQ YD	102	102	

SUMMARY OF QUANTITIES					
CODE NO.	ITEM	UNIT	801.FED./201.STATE TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				X081-2A	SFTY-3N
48202710	BITUMINOUS SHOULDERS SUPERPAVE 9 1/2"	SQ YD	1,004	1,004	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1	
50104000	BRIDGE RAIL REMOVAL	FOOT	156	156	
50105220	PIPE CULVERT REMOVAL	FOOT	52	52	
50200100	STRUCTURE EXCAVATION	CU YD	626	626	
50300225	CONCRETE STRUCTURES	CU YD	61.3	61.3	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	202.3	202.3	
50300260	BRIDGE DECK GROOVING	SQ YD	428	428	
50300300	PROTECTIVE COAT	SQ YD	544	544	
50300310	ELASTOMERIC BEARING ASSEMBLY, TYPE 1	EACH	6	6	
50400735	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BULB T-BEAMS 63"	FOOT	596	596	
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	3,841.6	3,841.6	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	42,630	42,630	
51500100	NAME PLATES	EACH	1	1	
54200229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	50	50	
54213459	END SECTIONS 24"	EACH	2	2	
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	262.5	262.5	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	257	257	
63300405	REMOVAL AND REINSTALLATION OF EXISTING TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	2	2	
63304385	TRAFFIC BARRIER TERMINAL REMOVAL, TYPE 1	EACH	2	2	
63500105	DELINEATORS	EACH	4	4	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	14	14	

PLAN
 DATE: _____
 BY: _____
 SUPERVISED BY: _____
 CHECKED BY: _____
 DATE: _____

PROFILE
 DATE: _____
 BY: _____
 SUPERVISED BY: _____
 CHECKED BY: _____
 DATE: _____

FILE NAME = 81150088
 PLOT SCALE = 1"=50'
 PLOT DATE = 8/24/98
 PLOT TIME = 10:00 AM
 OPERATOR =

*SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES
 FAP 609 (IL RTE. 163)
 SECTION 76-3BR
 ST. CLAIR COUNTY

SCALE: VERT. _____
 HORIZ. _____
 DATE: 11/25/02

DRAWN BY: BISHOP
 DESIGNED BY: COLBROOK
 CHECKED BY: COLBROOK

GREENE & BRADFORD, INC.
 OF SPRINGFIELD
 CONSULTING ENGINEERS
 300 CONSTRUCTION BANK
 SPRINGFIELD, ILLINOIS 62761
 (217) 793-4644

COMPUTER FILE NO.
 SUM163BR
 PROJECT: 02076
 6/30/05-MDS

SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
609	***	ST. CLAIR	46	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
*** SEC. 76 BR-1				
CONTRACT NO. 76268				

SUMMARY OF QUANTITIES					
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
				X081-2A	SFTY-3N
67100100	MOBILIZATION	L SUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DAY	152	152	
70106600	TEMPORARY BRIDGE TRAFFIC SIGNALS (STATE FURNISHED CONTROLLER)	EACH	1	1	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	528	528	
70300625	TEMPORARY PAINT PAVEMENT MARKING LINE 4"	FOOT	2,899	2,899	
70300660	TEMPORARY PAINT PAVEMENT MARKING LINE 24"	FOOT	48	48	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1,054	1,054	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	450	450	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	275	275	
* 72000100	SIGN PANEL - TYPE 1	SQ FT	10	10	
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	24	24	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2,312	2,312	
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - 4" LINE	FOOT	527	527	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	7	7	
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	1	1	
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	5	5	
* 78200530	BARRIER WALL MARKERS, TYPE C	EACH	4	4	
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	260	260	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	8	8	
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1,189	1,189	
X4066426	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70	TON	185	185	
X4066770	LEVELING BINDER (MACHINE METHOD), SUPERPAVE N70	TON	37	37	
X7200200	WIDE LOAD SIGNING	L SUM	1	1	
Z0002600	BAR SPLICERS	EACH	416	416	
* Z0008230	DRILLED SHAFT IN SOIL 30"	FOOT	101	101	
* Z0008324	DRILLED SHAFT IN ROCK 24"	FOOT	32	32	
Z0029999	IMPACT ATTENUATOR REMOVAL	EACH	2		2
Z0030265	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, WIDE), TEST LEVEL 2	EACH	2		2
Z0030320	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 2	EACH	2		2

* SPECIALTY ITEMS

DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
DATE	BY

FILE NAME : \$FILES
 PLOT SCALE : \$PLOTSCALE
 PLOT DATE : 8/24/98
 PLOT TIME : 8:10:58
 OPERATOR : \$OPERATOR

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES
 FAP 609 (IL RTE. 163)
 SECTION 76-3BR
 ST. CLAIR COUNTY

SCALE: VERT. _____
 HORIZ. _____
 DATE: 11/25/02

DRAWN BY: BISHOP
 DESIGNED BY: COLBROOK
 CHECKED BY: COLBROOK

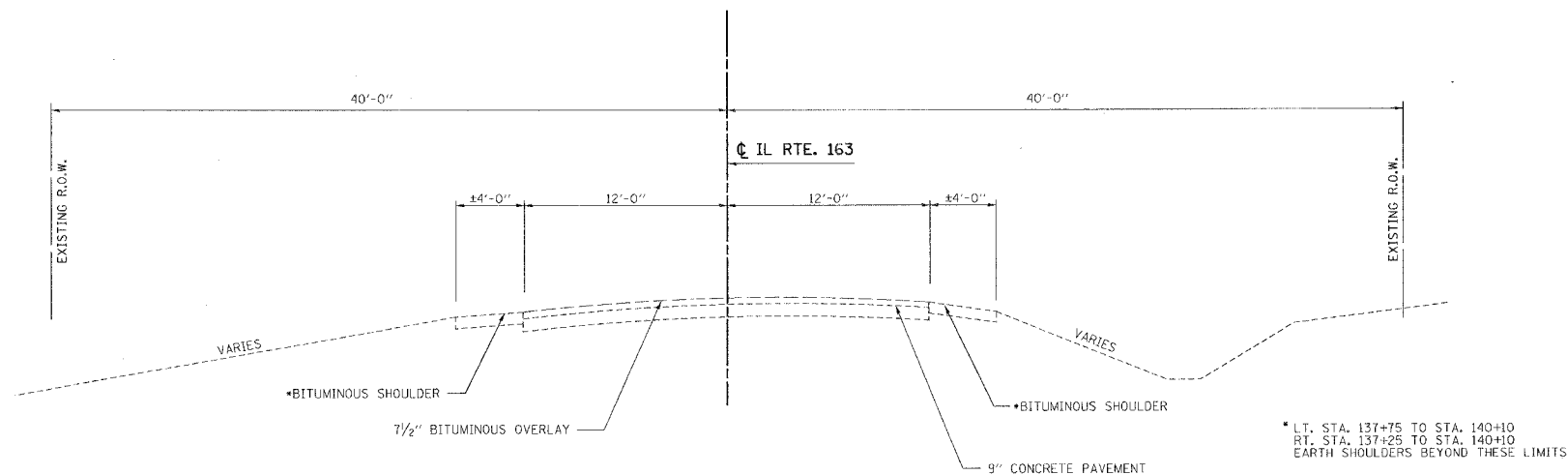
GREENE & BRADFORD, INC.
 CONSULTING ENGINEERS
 2001 CONSTRUCTION BLVD.
 SPRINGFIELD, ILLINOIS 62761
 (217) 792-8844

COMPUTER FILE NO.
 SUM1638R
 PROJECT: 02076
 7/22/05-MDS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
609	***	ST. CLAIR	46	6

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

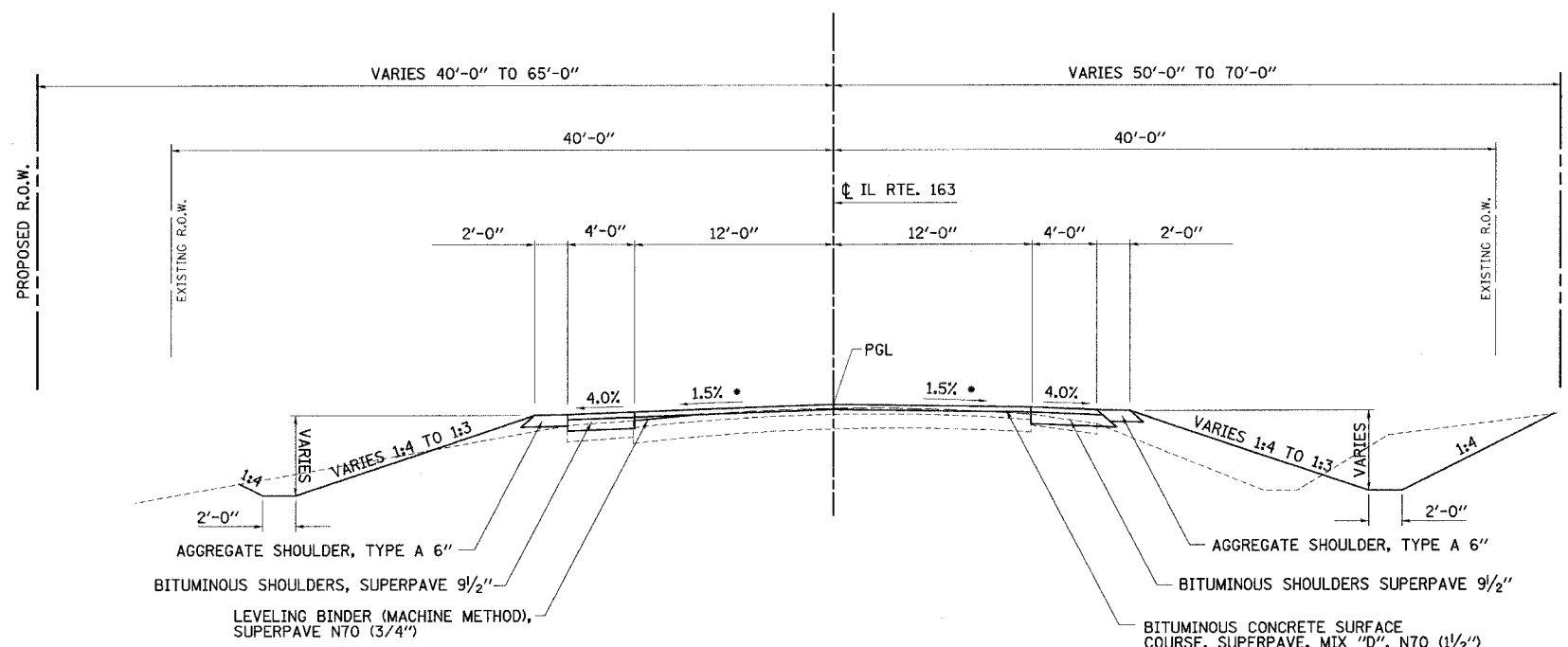
*** SEC. 76-3BR
CONTRACT NO. 76268



EXISTING RURAL TYPICAL SECTION

STA. 135+60 TO STA. 141+50

* LT. STA. 137+75 TO STA. 140+10
 RT. STA. 137+25 TO STA. 140+10
 EARTH SHOULDERS BEYOND THESE LIMITS



PROPOSED RURAL TYPICAL SECTION

STA. 135+60 TO STA. 141+90

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

FAP 609 (IL RTE. 163)
 SECTION 76-3BR
 ST. CLAIR COUNTY

REVISIONS	
NAME	DATE

SCALE: VERT. _____
 HORIZ. _____
 DATE: 11/25/02

DRAWN BY: JETT
 DESIGNED BY: COLBROOK
 CHECKED BY: COLBROOK

GREENE & BRADFORD, INC.
 OF SPRINGFIELD
 CONSULTING ENGINEERS
 1001 N. WASHINGTON ST.
 SPRINGFIELD, ILLINOIS 62762
 PROFESSIONAL ENGINEERING FIRM NO. 000018
 ILL. REG. NO. 000018-0001
 ILL. REG. NO. 000018-0001

COMPUTER FILE NO.
 TYP163BR

PROJECT 02076
 6/21/05-MDS

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	DATE	
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PROF. P.L.E.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	DATE	
	DATE	
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	DATE	

FILE NAME : I:\DOT\76\DRAWINGS\TYP163BR.dwg
 PLOT SCALE : 50' = 1" (AS SHOWN)
 PLOT DATE : 6/20/2005
 PLOT TIME : 3:58:02 PM
 OPERATOR : mds

IDOTPL50 1"=50' 8/24/98

TYPICAL SECTIONS

SCHEDULE OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
609	***	ST. CLAIR	46	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
*** SEC. 76-3BR				
CONTRACT NO. 76268				

TREE REMOVAL

ACRE	LOCATION
0.3	STA. 135+50 RT. TO STA. 139+00 RT.
0.3	TOTAL

EARTH EXCAVATION

CU YD	LOCATION
283	STA. 135+60 TO STA. 138+14.56
61	STA. 139+17.56 TO STA. 141+90
344	TOTAL

FURNISHED EXCAVATION

CU YD	LOCATION
1106	STA. 135+60 TO STA. 138+14.56
605	STA. 139+17.56 TO STA. 141+90
1711	TOTAL

SEEDING, CLASS 2

ACRE	LOCATION
0.3	STA. 135+60 LT. TO STA. 138+14 LT.
0.3	STA. 135+60 RT. TO STA. 138+14 RT.
0.2	STA. 139+17 LT. TO STA. 141+90 LT.
0.3	STA. 139+17 RT. TO STA. 141+90 RT.
1.1	TOTAL

NITROGEN FERTILIZER NUTRIENT

POUND	LOCATION
27	STA. 135+60 LT. TO STA. 138+14 LT.
27	STA. 135+60 RT. TO STA. 138+14 RT.
18	STA. 139+17 LT. TO STA. 141+90 LT.
27	STA. 139+17 RT. TO STA. 141+90 RT.
99	TOTAL

NITROGEN FERTILIZER NUTRIENT

POUND	LOCATION
27	STA. 135+60 LT. TO STA. 138+14 LT.
27	STA. 135+60 RT. TO STA. 138+14 RT.
18	STA. 139+17 LT. TO STA. 141+90 LT.
27	STA. 139+17 RT. TO STA. 141+90 RT.
99	TOTAL

NITROGEN FERTILIZER NUTRIENT

POUND	LOCATION
27	STA. 135+60 LT. TO STA. 138+14 LT.
27	STA. 135+60 RT. TO STA. 138+14 RT.
18	STA. 139+17 LT. TO STA. 141+90 LT.
27	STA. 139+17 RT. TO STA. 141+90 RT.
99	TOTAL

MULCH METHOD 1 (3 APPLICATIONS)

ACRE	LOCATION
0.9	STA. 135+60 LT. TO STA. 138+14 LT.
0.9	STA. 135+60 RT. TO STA. 138+14 RT.
0.6	STA. 139+17 LT. TO STA. 141+90 LT.
0.9	STA. 139+17 RT. TO STA. 141+90 RT.
3.3	TOTAL

MULCH METHOD 2

ACRE	LOCATION
0.3	STA. 135+60 LT. TO STA. 138+14 LT.
0.3	STA. 135+60 RT. TO STA. 138+14 RT.
0.2	STA. 139+17 LT. TO STA. 141+90 LT.
0.3	STA. 139+17 RT. TO STA. 141+90 RT.
1.1	TOTAL

TEMPORARY EROSION CONTROL SEEDING (3 APPLICATIONS)

ACRE	LOCATION
0.9	STA. 135+60 LT. TO STA. 138+14 LT.
0.9	STA. 135+60 RT. TO STA. 138+14 RT.
0.6	STA. 139+17 LT. TO STA. 141+90 LT.
0.9	STA. 139+17 RT. TO STA. 141+90 RT.
3.3	TOTAL

TEMPORARY DITCH CHECKS

EACH	LOCATION
1	STA. 137+25 LT.
1	STA. 138+00 LT.
2	TOTAL

PERIMETER EROSION BARRIER

FOOT	LOCATION
259	STA. 135+75, 65' RT. TO STA. 138+35, 68' RT.
131	STA. 138+35, 68' RT. TO STA. 138+35, 63' LT.
122	STA. 138+85, 68' RT. TO STA. 139+00, 51' LT.
267	STA. 138+85, 68' RT. TO STA. 141+50, 48' RT.
149	STA. 139+00, 51' LT. TO STA. 140+46, 40' LT.
74	STA. 140+76, 40' LT. TO STA. 141+50, 38' LT.
1002	TOTAL

INLET AND PIPE PROTECTION

EACH	LOCATION
1	STA. 136+42 LT.
1	TOTAL

STONE DUMPED RIPRAP, CLASS A4

SQ YD	LOCATION
63	STA. 135+75 RT.
63	TOTAL

FILTER FABRIC FOR USE WITH RIPRAP

SQ YD	LOCATION
63	STA. 135+75 RT.
63	TOTAL

AGGREGATE SURFACE COURSE, TYPE B

TON	LOCATION
62	STA. 136+65 LT, FIELD ENTRANCE
120	STA. 136+65 LT, FIELD ENTRANCE (TEMP. ACCESS)
80	STA. 140+61 LT, PRIVATE ENTRANCE (TEMP. ACCESS)
262	TOTAL

BITUMINOUS MATERIALS (PRIME COAT)

GALLON	LOCATION
59	STA. 135+60 TO STA. 137+79.39
64	STA. 139+51.73 TO STA. 141+90
123	TOTAL

AGGREGATE (PRIME COAT)

TON	LOCATION
2	STA. 135+60 TO STA. 137+79.39
2	STA. 139+51.73 TO STA. 141+90
4	TOTAL

BITUMINOUS SURFACE REMOVAL - BUTT JOINT

SQ YD	LOCATION
240	STA. 135+60 TO STA. 136+50
240	STA. 141+00 TO STA. 141+90
480	TOTAL

TEMPORARY RAMP

SQ YD	LOCATION
14	STA. 135+60
120	STA. 137+40 TO STA. 137+85.39
120	STA. 139+46.73 TO STA. 139+92
14	STA. 141+90
268	TOTAL

BRIDGE APPROACH PAVEMENT

SQ YD	LOCATION
122	STA. 137+85.39 TO STA. 138+15.39
122	STA. 139+16.73 TO STA. 139+46.73
244	TOTAL

BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)

SQ YD	LOCATION
25	STA. 137+79.39 TO STA. 137+85.39
25	STA. 139+46.73 TO STA. 139+51.73
50	TOTAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

FAP 609 (IL RTE. 163)
SECTION 76-3BR
ST. CLAIR COUNTY

SCALE: VERT. _____
HORIZ. _____
DATE: 6/13/03

DRAWN BY: SUTHEARD
DESIGNED BY: SUTHEARD
CHECKED BY: COLBROOK

GREENE & BRADFORD, INC.
(OF SPRINGFIELD)
CORPORATE HEADQUARTERS
2000 N. LINDEN DRIVE
SPRINGFIELD, ILLINOIS 62702
PH: 217.223.1100 FAX: 217.223.1101
WWW.GREENE-AND-BRADFORD.COM

COMPUTER FILE NO.
SUM163BR
PROJECT 02076
6/30/05-MDS

PLAN SURVEYED BY DATE
PLOTTED BY DATE
NOTED BY DATE
CHECKED BY DATE
RT. OF MAY CHECKED BY DATE
CADD FILE NAME

PROF. FILE SURVEYED BY DATE
PLOTTED BY DATE
NOTED BY DATE
CHECKED BY DATE
STRUCTURE NOTATIONS CHECKED BY DATE

FILE NAME: 05116
PLOT SCALE: 1"=10'
PLOT DATE: 6/13/03
PLOT TIME: 10:00 AM
OPERATOR: JEREMY

SCHEDULE OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
609	***	ST. CLAIR	46	9
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
*** SEC. 76-3BR				
CONTRACT NO. 76268				

TEMPORARY PAINT PAVEMENT MARKING LINE 24"

FOOT	LOCATION
12	STA. 134+20 RT (STAGE 1)
12	STA. 142+93 LT (STAGE 1)
12	STA. 134+20 RT (STAGE 2)
12	STA. 142+93 LT (STAGE 2)
48	TOTAL

WORK ZONE PAVEMENT MARKING REMOVAL

SQ FT	LOCATION
289	STA. 134+20 LT TO STA. 142+93 LT (EDGE LINE) (STAGE 1)
231	STA. 134+20 RT TO STA. 141+20 RT (EDGE LINE) (STAGE 1)
24	STA. 134+20 RT (STOP BAR) (STAGE 1)
24	STA. 142+93 LT (STOP BAR) (STAGE 1)
196	STA. 137+00 LT TO STA. 142+93 LT (EDGE LINE) (STAGE 2)
242	STA. 135+60 RT TO STA. 142+93 RT (EDGE LINE) (STAGE 2)
24	STA. 134+20 RT (STOP BAR) (STAGE 2)
24	STA. 142+93 LT (STOP BAR) (STAGE 2)
1054	TOTAL

TEMPORARY CONCRETE BARRIER

FOOT	LOCATION
450	STA. 136+40 TO STA. 140+90 (STAGE 1)
450	TOTAL

RELOCATE TEMPORARY CONCRETE BARRIER

FOOT	LOCATION
275	STA. 137+27 TO STA. 140+02 (STAGE 2)
275	TOTAL

SIGN PANEL - TYPE 1

SQ FT	LOCATION
5	STA. 138+14, 23' RT
5	STA. 139+18, 23' LT
10	TOTAL

TELESCOPING STEEL SIGN SUPPORT

FOOT	LOCATION
12	STA. 138+14, 23' RT
12	STA. 139+18, 23' LT
24	TOTAL

THERMOPLASTIC PAVEMENT MARKING - LINE 4"

FOOT	LOCATION
365	STA. 134+20 LT TO STA. 137+85 LT (EDGE LINE - WHITE, SOLID)
365	STA. 134+20 RT TO STA. 137+85 RT (EDGE LINE - WHITE, SOLID)
365	STA. 134+20 TO STA. 137+85 (CENTERLINE - YELLOW, SOLID)
92	STA. 134+20 TO STA. 137+85 (CENTERLINE - YELLOW, DASH)
346	STA. 139+47 LT TO STA. 142+93 LT (EDGE LINE - WHITE, SOLID)
346	STA. 139+47 RT TO STA. 142+93 RT (EDGE LINE - WHITE, SOLID)
346	STA. 139+47 TO STA. 142+93 (CENTERLINE - YELLOW, SOLID)
87	STA. 139+47 TO STA. 142+93 (CENTERLINE - YELLOW, DASH)
2312	TOTAL

POLYUREA PAVEMENT MARKING TYPE I - LINE 4"

FOOT	LOCATION
162	STA. 137+85 LT TO STA. 139+47 LT (EDGE LINE - WHITE, SOLID)
162	STA. 137+85 RT TO STA. 139+47 RT (EDGE LINE - WHITE, SOLID)
162	STA. 137+85 TO STA. 139+47 (CENTERLINE - YELLOW, SOLID)
41	STA. 137+85 TO STA. 139+47 (CENTERLINE - YELLOW, DASH)
527	TOTAL

RAISED REFLECTIVE PAVEMENT MARKER

EACH	LOCATION
3	STA. 136+00 TO STA. 137+60
4	STA. 139+20 TO STA. 141+60
7	TOTAL

RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)

EACH	LOCATION
1	STA. 138+40
1	TOTAL

GUARDRAIL MARKERS, TYPE A

EACH	LOCATION
1	STA. 136+69 RT
1	STA. 137+40 LT
1	STA. 137+49 RT
1	STA. 139+80 LT
1	STA. 139+89 RT
5	TOTAL

BARRIER WALL MARKERS, TYPE C

EACH	LOCATION
1	STA. 138+20 LT
1	STA. 138+29 RT
1	STA. 139+00 LT
1	STA. 139+09 RT
4	TOTAL

TERMINAL MARKER - DIRECT APPLIED

EACH	LOCATION
1	STA. 136+08.41 RT
1	STA. 136+83.31 LT
1	STA. 140+36.31 LT
1	STA. 140+48.81 RT
4	TOTAL

PAVEMENT MARKING REMOVAL

FOOT	LOCATION
110	STA. 137+00 LT TO STA. 140+34 LT (EDGE LINE - SOLID) (STAGE 1)
40	STA. 136+00 TO STA. 137+00 (CENTERLINE - SOLID & DASH) (STAGE 1)
40	STA. 136+65 RT TO STA. 137+85 (EDGE LINE - SOLID) (STAGE 2)
70	STA. 139+53 RT TO STA. 141+63 RT (EDGE LINE - SOLID) (STAGE 2)
260	TOTAL

RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

EACH	LOCATION
8	STA. 135+60 TO STA. 141+90
8	TOTAL

BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70

TON	LOCATION
91	STA. 135+60 TO STA. 137+79.39
94	STA. 139+51.73 TO STA. 141+90
185	TOTAL

LEVELING BINDER (MACHINE METHOD), SUPERPAVE N70

TON	LOCATION
37	STA. 135+60 TO STA. 141+90
37	TOTAL

IMPACT ATTENUATOR REMOVAL

EACH	LOCATION
1	STA. 137+27 LT
1	STA. 140+02 LT
2	TOTAL

IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, WIDE) TEST LEVEL 2

EACH	LOCATION
1	STA. 136+40 RT
1	STA. 140+90 RT
2	TOTAL

IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE) TEST LEVEL 2

EACH	LOCATION
1	STA. 137+27 LT
1	STA. 140+02 LT
2	TOTAL

PLAN	SURVEYED	DATE
NOTE BOOK	ADJUSTED	
	CHECKED	
	BY	
	NO. OF WAYS CHECKED	
	ADD FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK	ADJUSTED	
	CHECKED	
	BY	
	NO. OF WAYS CHECKED	
	ADD FILE NAME	

FILE NAME = 8FILES
 PLOT SCALE = 8"=100'
 PLOT DATE = 7/29/05
 OPERATOR =

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF QUANTITIES
 FAP 609 (IL RTE. 163)
 SECTION 76-3BR
 ST. CLAIR COUNTY

SCALE: VERT. _____
 HORIZ. _____
 DATE 10/15/04

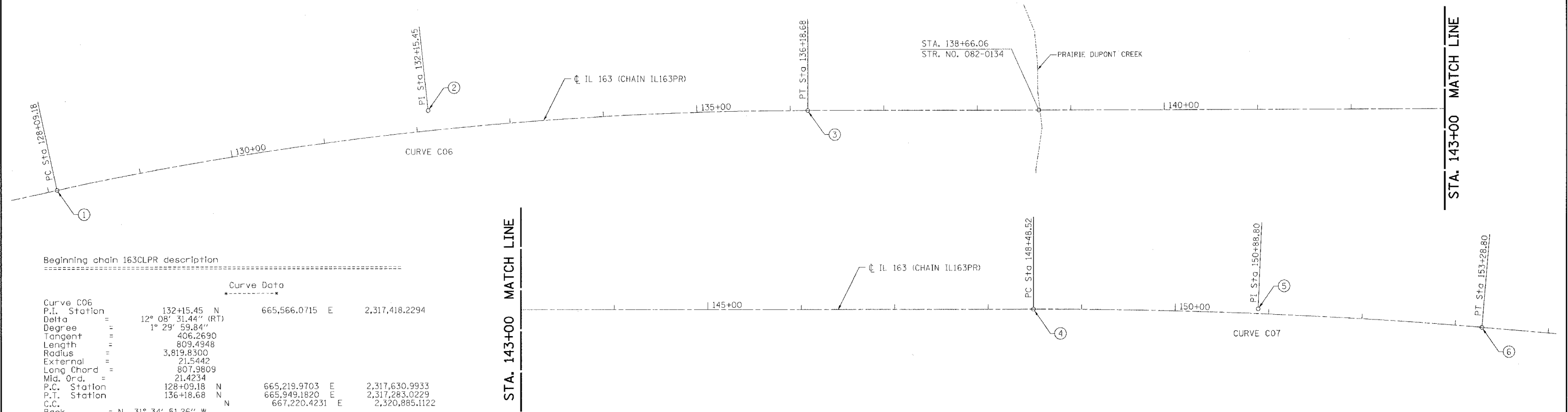
DRAWN BY: SUTHEARD
 DESIGNED BY: SUTHEARD
 CHECKED BY: COLBROOK

GREENE & BRADFORD, INC.
 OF SPRINGFIELD
 CONSULTING ENGINEERS
 PROFESSIONAL ENGINEERS
 LICENSE NO. 021-0000001
 PROJECT NO. 02076
 7/22/05-MDS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
609	***	ST. CLAIR	46	10
STA.	TO STA.			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
*** SEC. 76-3BR				
CONTRACT NO. 76268				

BENCH MARKS
SEE PLAN & PROFILE SHEETS FOR BENCH MARK DATA.

HORIZONTAL AND VERTICAL CONTROL



Beginning chain 163CLPR description

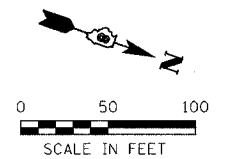
Curve Data				
Curve C06				
P.I. Station	132+15.45 N	665,566.0715 E	2,317,418.2294	
Delta	12° 08' 31.44" (RT)			
Degree	1° 29' 59.84"			
Tangent	406.2690			
Length	809.4948			
Radius	3,819.8300			
External	21.5442			
Long Chord	807.9809			
Mid. Ord.	21.4234			
P.C. Station	128+09.18 N	665,219.9703 E	2,317,630.9933	
P.T. Station	136+18.68 N	665,949.1820 E	2,317,283.0229	
C.C.		667,220.4231 E	2,320,885.1122	
Back	= N 31° 34' 51.26" W			
Ahead	= N 19° 26' 19.82" W			
Chord Bear	= N 25° 30' 35.54" W			

Course from PT C06 to PC C07 N 19° 26' 19.82" W Dist 1,229.8383

Curve Data				
Curve C07				
P.I. Station	150+88.80 N	667,335.5022 E	2,316,793.7660	
Delta	4° 48' 10.01" (RT)			
Degree	0° 59' 59.95"			
Tangent	240.2827			
Length	480.2840			
Radius	5,729.6500			
External	5.0361			
Long Chord	480.1434			
Mid. Ord.	5.0317			
P.C. Station	148+48.52 N	667,108.9163 E	2,316,873.7322	
P.T. Station	153+28.80 N	667,567.9878 E	2,316,733.0518	
C.C.		669,015.7462 E	2,322,276.7762	
Back	= N 19° 26' 19.82" W			
Ahead	= N 14° 38' 09.81" W			
Chord Bear	= N 17° 02' 14.82" W			

Ending chain 163CLPR description

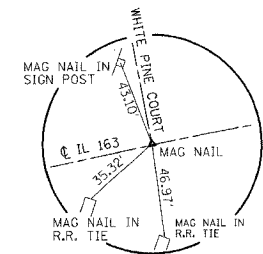
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CHAIN	POINT	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION
IL163PR	1	665,219.9703	2,317,630.9933	128+09.18 PC	0.0000	MAG. NAIL
IL163PR	2	665,566.0715	2,317,418.2294	132+15.45 PI	ON TANGENT	PIPE
IL163PR	3	665,949.1820	2,317,283.0229	136+18.68 PT	- 0.0000	MAG. NAIL
IL163PR	4	667,108.9163	2,316,873.7322	148+48.52 PC	0.0000	MAG. NAIL
IL163PR	5	667,335.5022	2,316,793.7660	150+88.80 PI	ON TANGENT	MAG. NAIL
IL163PR	6	667,567.9878	2,316,733.0518	153+28.80 PT	0.0000	MAG. NAIL



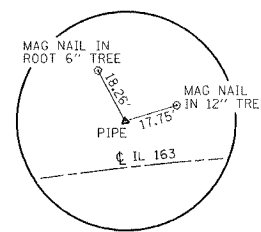
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NO.	
BY	
DATE	
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BY	
DATE	
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PROFILE	DATE
NO.	
BY	
DATE	
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BY	
DATE	
NO.	

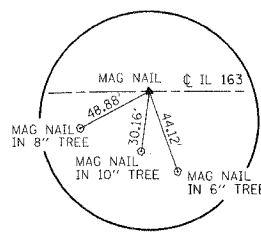
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 PLOT DATE = 8/07/00
 PLOT TIME = 3:58:43 PM
 OPERATOR = JH



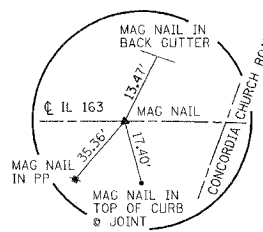
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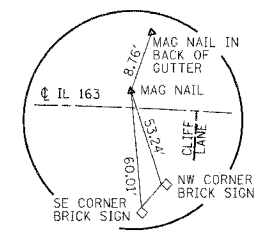
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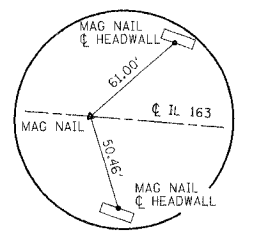
HORIZONTAL CONTROL POINT NO. 3



HORIZONTAL CONTROL POINT NO. 4



HORIZONTAL CONTROL POINT NO. 5



HORIZONTAL CONTROL POINT NO. 6

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
HORIZONTAL AND VERTICAL CONTROL
 FAP RTE 609 (IL RTE. 163)
 SECTION 76-3BR
 ST. CLAIR COUNTY

SCALE: VERT. _____
 HORIZ. _____
 DATE 10/11/04

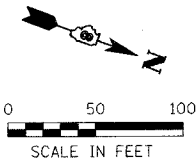
DRAWN BY: SUTHEARD
 DESIGNED BY: SUTHEARD
 CHECKED BY: COLBROOK

GREENE & BRADFORD, INC.
 CONSULTING ENGINEERS
 1115 S. WASHINGTON ST., SUITE 200
 SPRINGFIELD, ILLINOIS 62761
 (217) 244-1111 FAX (217) 244-1112
 www.greenesbradford.com

COMPUTER FILE NO.
 HVC163BR
 PROJECT 02076
 4/19/05-MDS

REMOVAL AND ADJUSTMENT PLAN

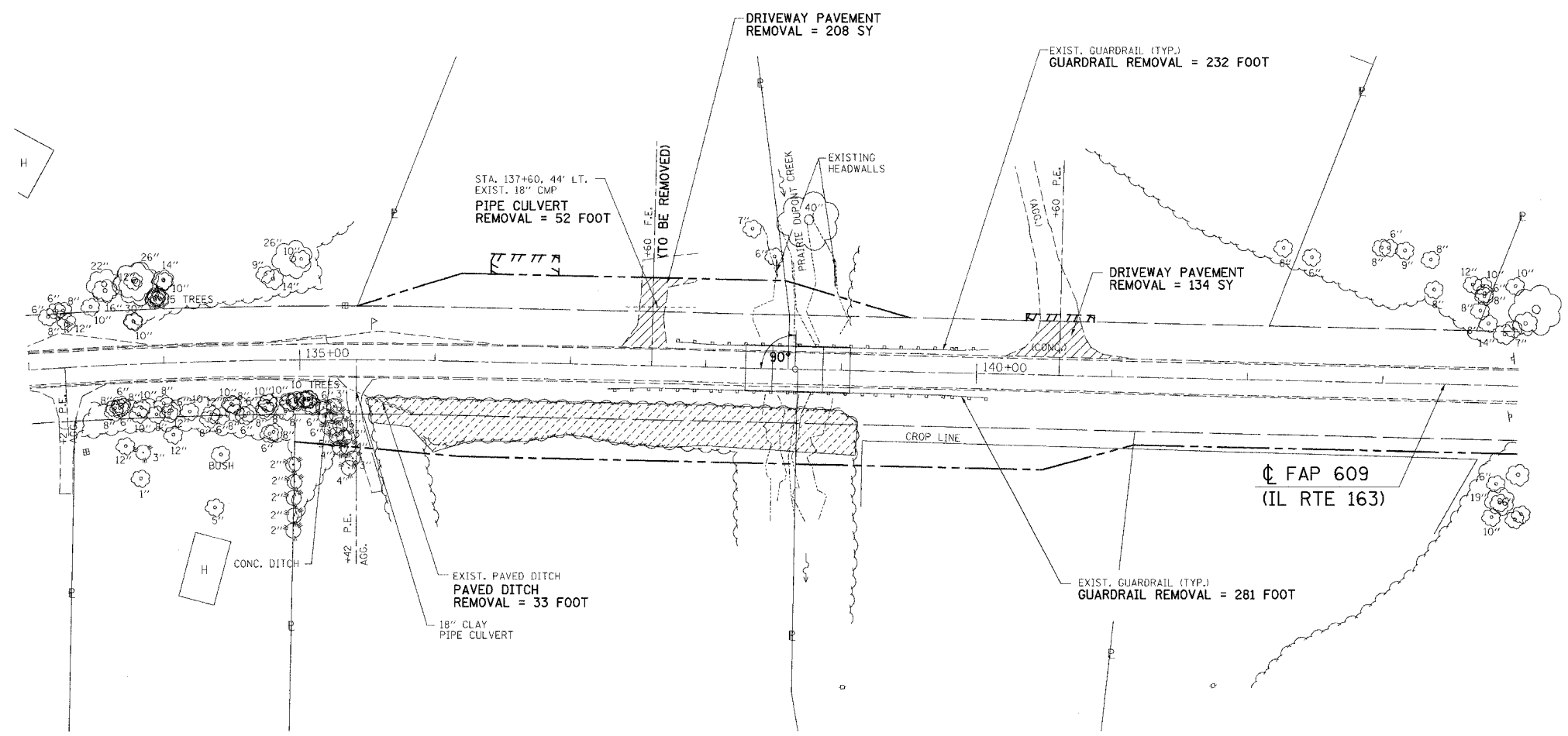
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
609	***	ST. CLAIR	46	11
STA.	TO STA.			
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
*** SEC. 76-3BR				
CONTRACT NO. 76268				



PLAN	SURVEYED	BY	DATE
	ALIGNED		
	RT. OF WAY CHECKED		
	NO.		

PROFILE	SURVEYED	BY	DATE
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NO.		

FILE NAME	J:\02076\DRAWINGS\REM163BR.dgn
PLOT DATE	6/20/05
OPERATOR	BRAD



LEGEND

- ||||| - TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED RIGHT-OF-WAY LINE
- EXISTING RIGHT-OF-WAY LINE
- CONSTRUCTION LIMITS
- [Diagonal Hatching] BITUMINOUS SURFACE REMOVAL (BUTT JOINT)
- [Cross-hatching] PAVEMENT REMOVAL
- [Dotted Hatching] TREE REMOVAL, ACRES
- [Diagonal Hatching] DRIVEWAY PAVEMENT REMOVAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
REMOVAL AND ADJUSTMENT PLAN
 FAP 609 (IL RTE. 163)
 SECTION 76-3BR
 ST. CLAIR COUNTY

SCALE: VERT. _____
 HORIZ. 1" = 50'
 DATE 2/15/05

DRAWN BY: SUTHEARD
 DESIGNED BY: SUTHEARD
 CHECKED BY: COLBROOK

GREENE & BRADFORD, INC.
 CONSULTING ENGINEERS
 10710 S.W. 11th St., Suite 100
 Miami, FL 33156
 (305) 551-1111

COMPUTER FILE NO.
 REM163BR
 PROJECT 02076
 6/24/05-MDS

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (TANGENT)
- ② STEEL PLATE BEAM GUARDRAIL, TYPE A
- ③ TRAFFIC BARRIER TERMINAL, TYPE 6

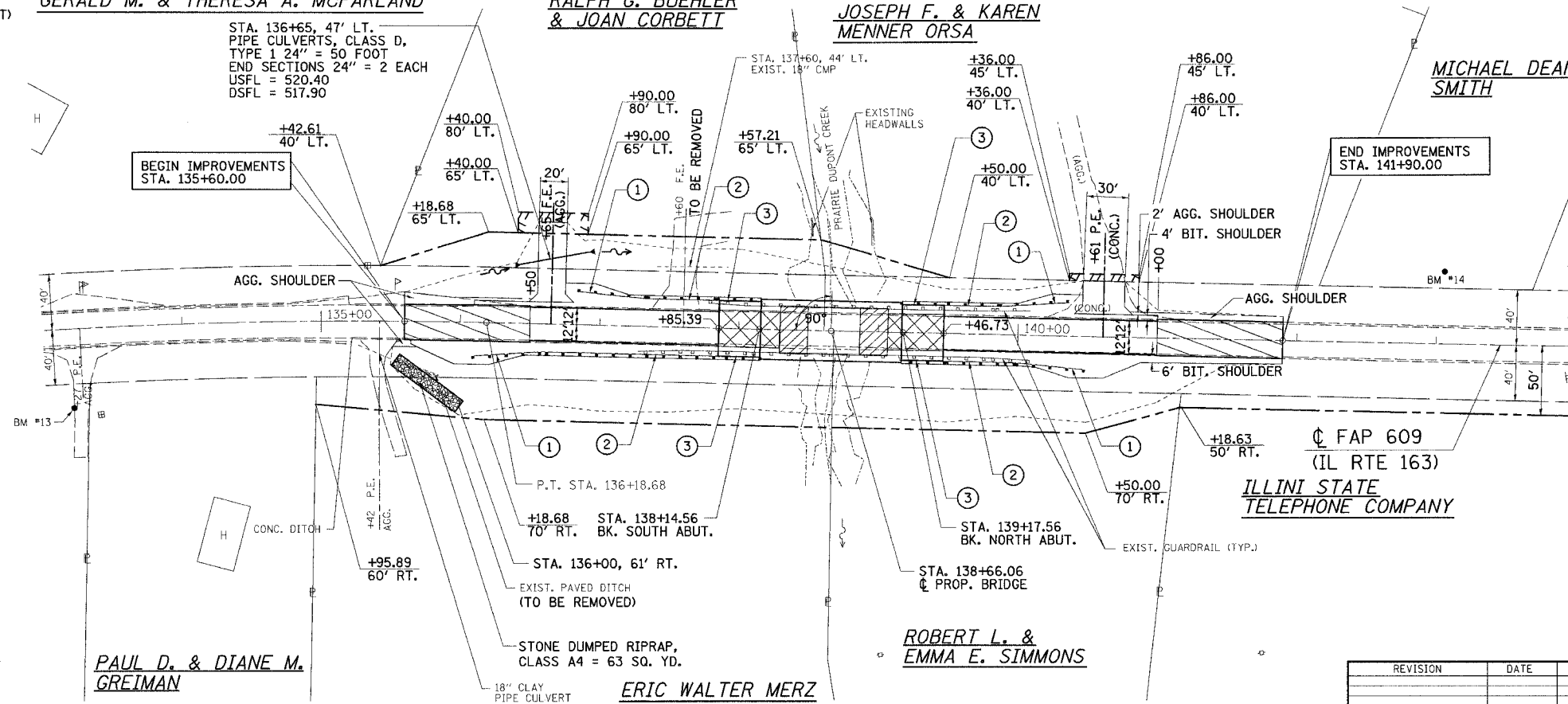
GERALD M. & THERESA A. McFARLAND

RALPH G. BUEHLER & JOAN CORBETT

JOSEPH F. & KAREN MENNER ORSA

MICHAEL DEAN SMITH

STA. 136+65, 47' LT.
PIPE CULVERTS, CLASS D,
TYPE 1 24" = 50 FOOT
END SECTIONS 24" = 2 EACH
USFL = 520.40
DSFL = 517.90



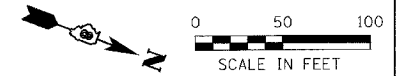
CURVE DATA
PI Sta. 132+15.45
 $\Delta = 12^\circ 08' 31''$ (RT)
D = $1^\circ 30' 00''$
T = 406.27'
R = 3,819.83'
L = 809.49'
E = 21.54'
PC Sta. 128+09.18
PT Sta. 136+18.68
Exist. S.E. = -2.06

PAUL D. & DIANE M. GREIMAN

ERIC WALTER MERZ

ROBERT L. & EMMA E. SIMMONS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
609	***	ST. CLAIR	46	12
STA. 131+00		TO STA. 146+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
*** SEC. 76-3BR		CONTRACT NO. 76268		

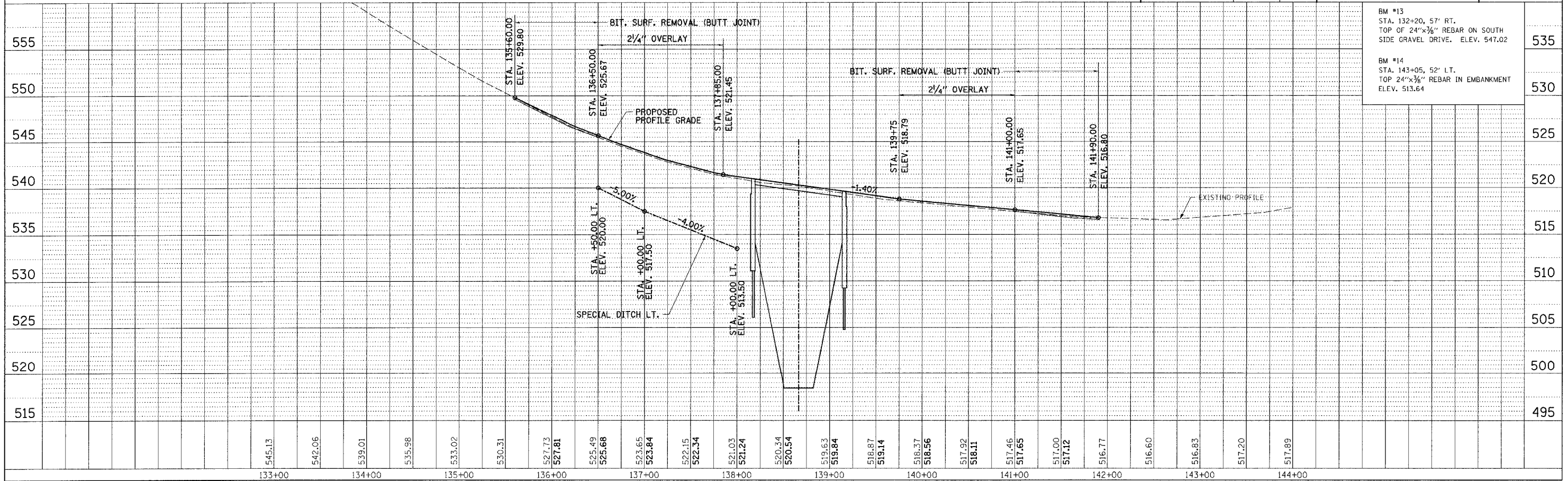


LEGEND

- TEMPORARY CONSTRUCTION EASEMENT
- - - PROPOSED RIGHT-OF-WAY LINE
- EXISTING RIGHT-OF-WAY LINE
- - - CONSTRUCTION LIMITS
- BITUMINOUS SURFACE REMOVAL (BUTT JOINT)
- PAVEMENT REMOVAL
- APPROACH SLAB REMOVAL

REVISION	DATE	BY

GREENE & BRADFORD, INC.
REGISTERED PROFESSIONAL ENGINEERS
ILLINOIS LICENSE NO. 0270
PROJECT: 02076
6/29/05-MDS



BM #13
STA. 132+20, 57' RT.
TOP OF 24"x3/8" REBAR ON SOUTH
SIDE GRAVEL DRIVE. ELEV. 547.02

BM #14
STA. 143+05, 52' LT.
TOP 24"x3/8" REBAR IN EMBANKMENT
ELEV. 513.64

DATE	BY

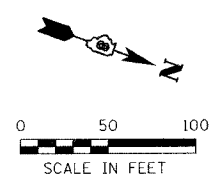
DATE	BY

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PLOT DATE: 6/30/05
PLOT TIME: 3:58:47 PM
OPERATOR: MDR

IDOT/EP - 1:50 06/10/03

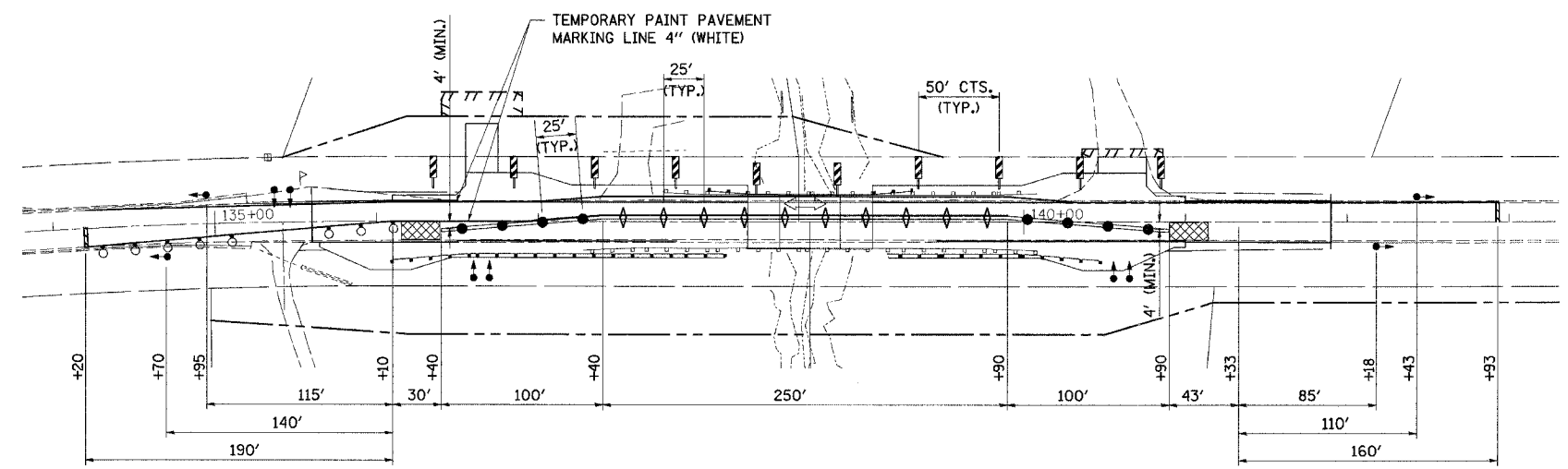
PLAN & PROFILE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
609	...	ST. CLAIR	46	13
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
... SEC. 76-3BR				
CONTRACT NO. 76268				

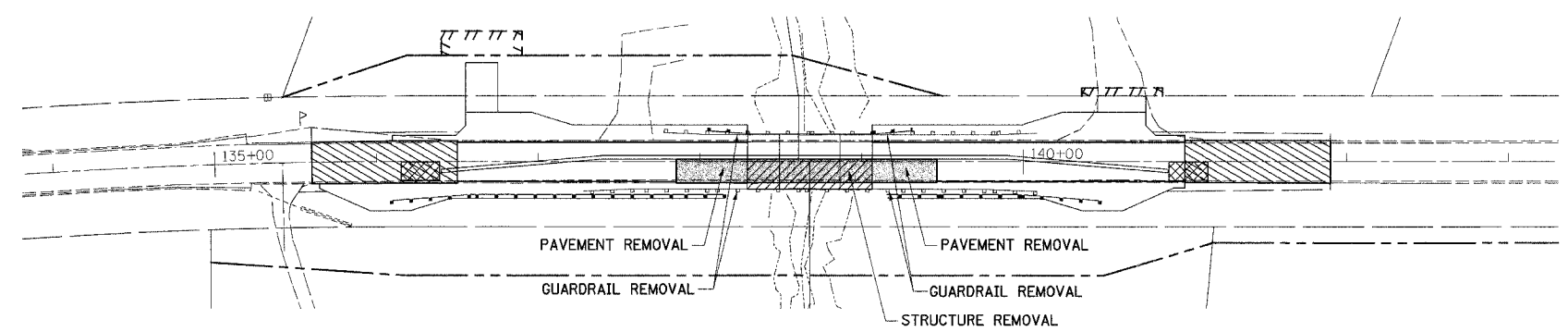


**STAGE I
SEQUENCE OF OPERATIONS**

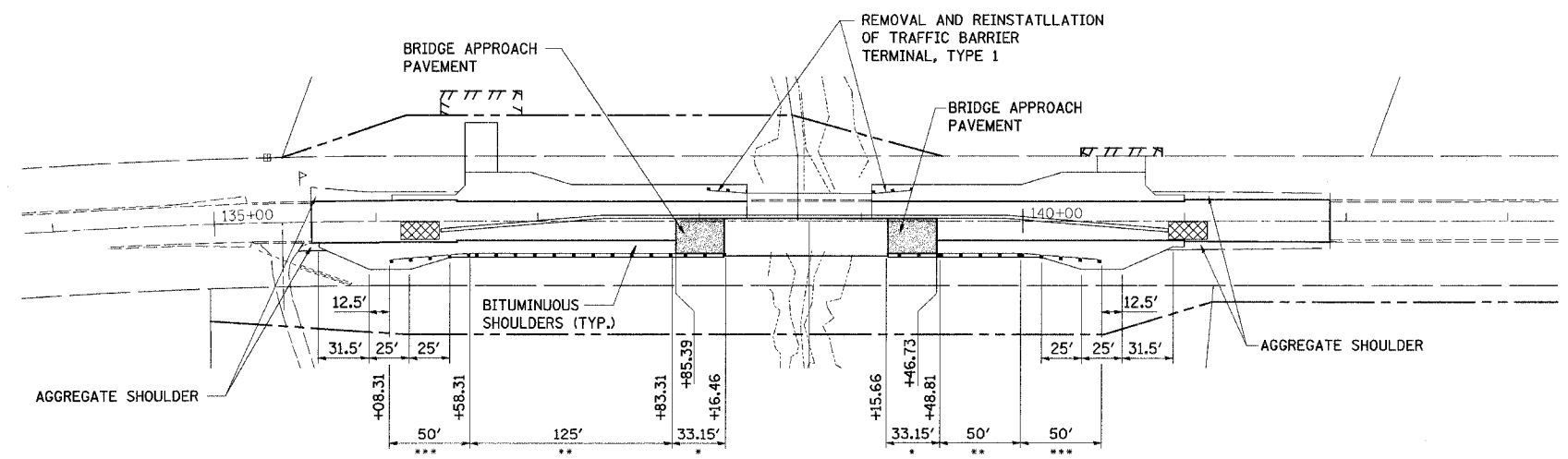
1. PRIOR TO INSTALLING TEMPORARY TRAFFIC CONTROL DEVICES FOR STAGING OPERATIONS, PERFORM ALL BITUMINOUS SURFACE REMOVAL ITEMS, CONSTRUCT RELOCATED FIELD ENTRANCE AT STA. 136+65 LT., CONSTRUCT BITUMINOUS SHOULDERS, AND TEMPORARY RAMPS USING TRAFFIC CONTROL AND PROTECTION STANDARDS 701006, 701306 AND 701326
2. INSTALL TEMPORARY TRAFFIC SIGNALS, ATTENUATOR BASES, ATTENUATORS, TEMPORARY CONCRETE BARRIERS AND DRUMS WITH THE AID OF TRAFFIC CONTROL AND PROTECTION STANDARDS 701201 AND 701006. ALL OTHER ITEMS AS PER THESE DETAILS AND AS PER LANE CLOSURE 2L, 2W, BRIDGE REPAIR WITH BARRIER STANDARD 701321. BEGIN OPERATING UNDER STAGE I TRAFFIC CONDITIONS WITH THE AID OF TRAFFIC CONTROL AND PROTECTION STANDARD 701201 AND 701006.
3. DRIVE TEMPORARY SHEET PILING, REMOVE EXISTING PAVEMENT, AGGREGATE SHOULDERS, GUARDRAIL & TRAFFIC BARRIER TERMINALS, EXCAVATE, AND REMOVE PORTION OF EXISTING STRUCTURE.
4. CONSTRUCT NEW PORTION OF PROPOSED STRUCTURE, BACKFILL, COMPACT, CONSTRUCT PAVEMENT, BITUMINOUS SHOULDERS, STEEL PLATE BEAM GUARDRAIL, TRAFFIC BARRIER TERMINAL, ROUGH GRADING OF DITCHES AND TEMPORARY RAMPS.



TRAFFIC CONTROL



REMOVAL SCHEMATIC



CONSTRUCTION SCHEMATIC

LEGEND

	STRUCTURE REMOVAL
	PAVEMENT REMOVAL AND PATCHING
	BITUMINOUS SURFACE REMOVAL (BUTT JOINT)
	TYPE III BARRICADE WITH FLASHING LIGHTS
	TRAFFIC SIGNALS
	DRUM WITH STEADY BURNING LIGHT
	STOP LINE 24"
	IMPACT ATTENUATORS, TEMPORARY (FULLY-REDIRECTIVE, WIDE)
	DOUBLE VERTICAL PANEL
	TYPE C BIDIRECTIONAL REFLECTOR
	STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANEL

ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE I CONSTRUCTION
FAP RTE 609 (IL RTE. 163)
SECTION 76-3BR
ST. CLAIR COUNTY

REVISIONS	
NAME	DATE

SCALE: VERT. _____
HORIZ. _____
DATE 9/30/04

DRAWN BY: SUTHEARD
DESIGNED BY: SUTHEARD
CHECKED BY: COLBROOK

GREENE & BRADFORD, INC.
CONSULTING ENGINEERS
OF ILLINOIS
1100 N. WASHINGTON ST., SUITE 200
SPRINGFIELD, ILLINOIS 62761
PROFESSIONAL ENGINEERING CORPORATION
ILLINOIS LICENSE NO. 021-000000-000000

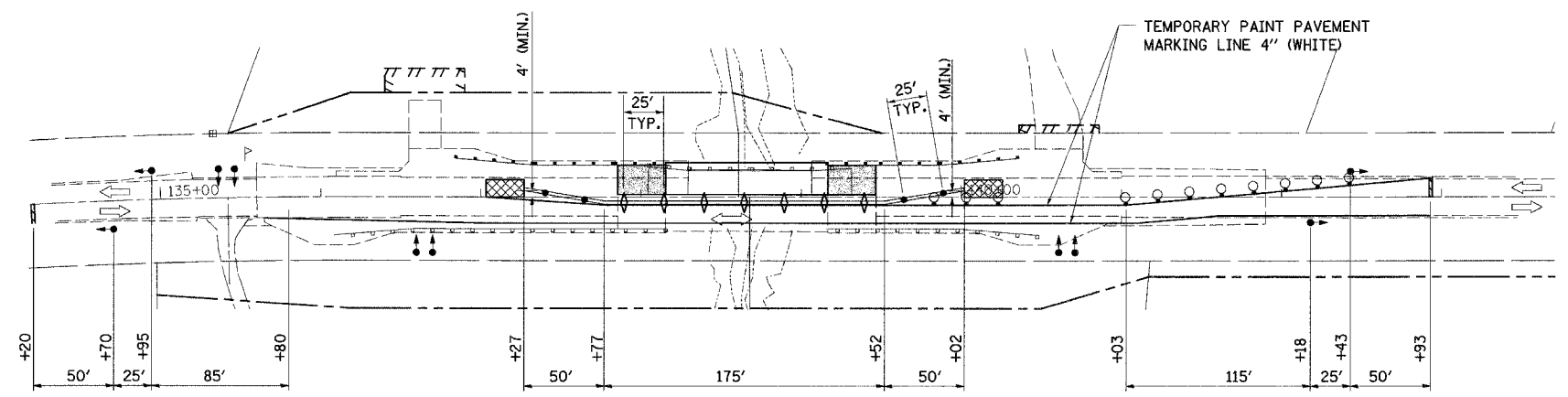
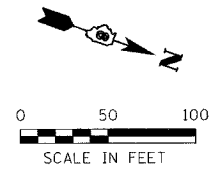
COMPUTER FILE NO.
STG163BR-1
PROJECT 02076
6/30/05-MDS

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CHECKED	
DATE	
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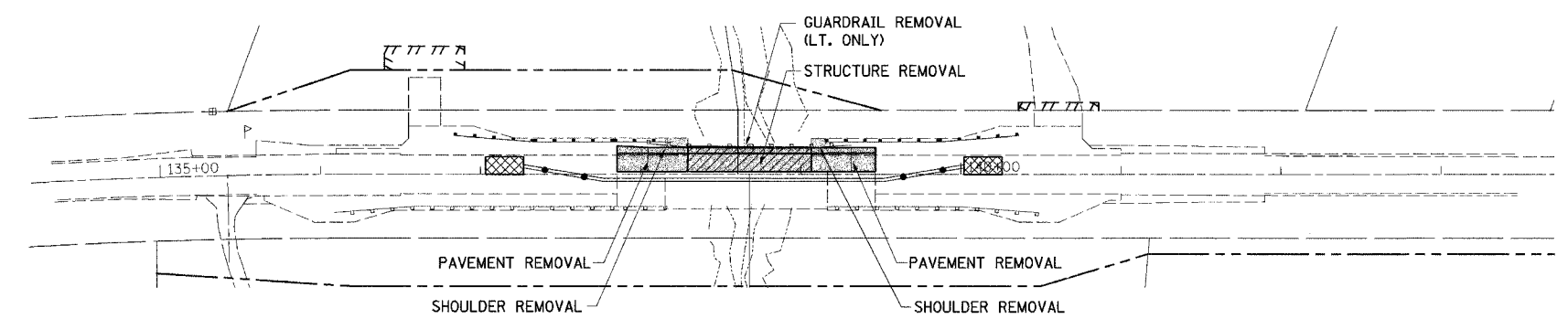
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BY	
CHECKED	
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FILE NAME	

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PLOT SCALE = 50' = 1" (VERTICAL)
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PLOT TIME = 4:00:06 PM
OPERATOR = mds

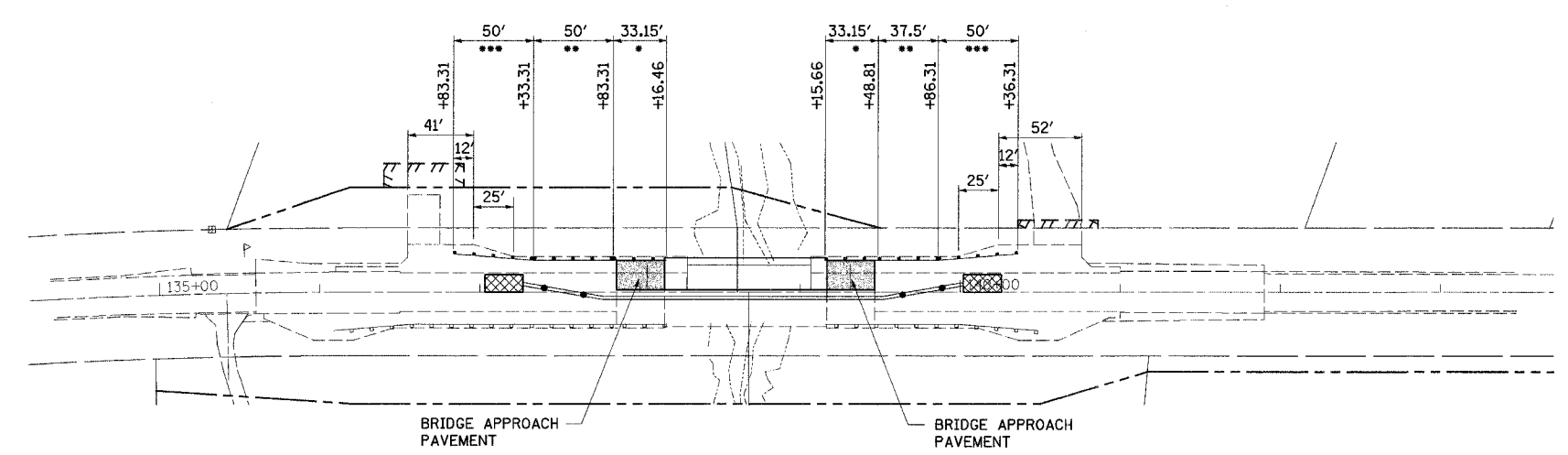
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
609	...	ST. CLAIR	46	14
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
*** SEC. 76-3BR				
CONTRACT NO. 76268				



TRAFFIC CONTROL



REMOVAL SCHEMATIC



CONSTRUCTION SCHEMATIC

**STAGE II
SEQUENCE OF OPERATIONS**

1. INSTALL TEMPORARY CONCRETE BARRIERS AND DRUMS USING TRAFFIC CONTROL AND PROTECTION STANDARDS 701006 AND 701201. ALL OTHER ITEMS AS PER THESE DETAILS AND AS PER LANE CLOSURE 2L, 2W, BRIDGE REPAIR WITH BARRIER STANDARD 701321 AND TRAFFIC CONTROL AND PROTECTION STANDARD 701201. BEGIN OPERATING UNDER STAGE II TRAFFIC CONDITIONS.
2. REMOVE ALL ITEMS SUCH AS PORTION OF TEMPORARY SHEET PILING, EXISTING PAVEMENT, AGGREGATE SHOULDERS, GUARDRAIL & TRAFFIC BARRIER TERMINALS, EXCAVATE, AND REMOVE REMAINING PORTION OF EXISTING STRUCTURE.
3. CONSTRUCT NEW PORTION OF PROPOSED STRUCTURE, BACKFILL, COMPACT, PAVEMENT & BITUMINOUS SHOULDERS.
4. REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES, PLACE LEVELING BINDER, BITUMINOUS CONCRETE SURFACE COURSE, STEEL PLATE BEAM GUARDRAIL, TRAFFIC BARRIER TERMINALS, STRIPING, FINISH GRADING AND SEEDING. ALL OF THIS WORK WILL BE DONE IN ACCORDANCE WITH STANDARDS 701306, 701311, AND 702001.

LEGEND

- STRUCTURE REMOVAL
- PAVEMENT REMOVAL AND PATCHING
- BITUMINOUS SURFACE REMOVAL (BUTT JOINT)
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TRAFFIC SIGNALS
- DRUM WITH STEADY BURNING LIGHT
- STOP LINE 24"
- IMPACT ATTENUATORS, RELOCATE (FULLY-REDIRECTIVE)
- DOUBLE VERTICAL PANEL
- TYPE C BIDIRECTIONAL REFLECTOR
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANEL

ILLINOIS DEPARTMENT OF TRANSPORTATION
STAGE II CONSTRUCTION
 FAP RTE 609 (IL RTE. 163)
 SECTION 76-3BR
 ST. CLAIR COUNTY

REVISIONS	
NAME	DATE

SCALE: VERT. _____
 HORIZ. _____
 DATE 9/30/04

DRAWN BY: SUTHEARD
 DESIGNED BY: SUTHEARD
 CHECKED BY: COLBROOK

GREENE & BRADFORD, INC.
 CONSULTING ENGINEERS
 4011 W. BROADWAY, SUITE 200
 ST. LOUIS, MISSOURI 63108
 (314) 867-1100 FAX (314) 867-1101
 WWW.GREENE-AND-BRADFORD.COM

COMPUTER FILE NO.
 STG163BR-2
 PROJECT 02076
 6/30/05-MDS

PLAN	DATE
BY	
REVISIONS	
NO.	
DESCRIPTION	

PROJ. FILE	DATE
BY	
REVISIONS	
NO.	
DESCRIPTION	

FILE NAME: I:\PROJECTS\STG163BR\STG163BR.dwg
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 PLOT DATE: 8/7/05
 PLOT TIME: 4:00:23 PM
 OPERATOR: mofrc

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
609	76-3BR	ST. CLAIR	46	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION:

1. DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS AS OUTLINED PREVIOUSLY HEREIN SHALL BE PROTECTED. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING (EXCEPT AS DESCRIBED ON THE PLANS AND DIRECTED BY THE ENGINEER), PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.
 - (a.) WITHIN THE CONSTRUCTION LIMITS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION.
 - (b.) EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN DAYS.
 - (c.) AS CONSTRUCTION PROCEEDS, THE CONTRACTOR SHALL INSTITUTE THE FOLLOWING AS DIRECTED BY THE ENGINEER:
 - I. PLACE TEMPORARY EROSION CONTROL FACILITIES AT LOCATIONS SHOWN ON THE PLANS.
 - II. TEMPORARILY SEED ERODABLE BARE EARTH ON A WEEKLY BASIS TO MINIMIZE THE AMOUNT OF ERODABLE SURFACE AREA WITHIN THE CONTRACT LIMITS.
 - III. CONSTRUCT ROADSIDE DITCHES AND PROVIDE TEMPORARY EROSION CONTROL SYSTEMS.
 - IV. TEMPORARILY DIVERT WATER AROUND PROPOSED CULVERT LOCATIONS.
 - V. BUILD NECESSARY EMBANKMENT AT CULVERT LOCATIONS AND THEN EXCAVATE AND PLACE CULVERT.
 - VI. CONTINUE BUILDING UP THE EMBANKMENT TO THE PROPOSED GRADE WHILE AT THE SAME TIME, PLACING PERMANENT CONTROL SUCH AS RIPRAP DITCH LINING AND CONDUCTING FINAL SHAPING TO THE SLOPES.
 - (d.) EXCAVATED AREAS AND EMBANKMENT SHALL BE PERMANENTLY SEEDED IMMEDIATELY AFTER FINAL GRADING. IF NOT, THEY SHALL BE TEMPORARILY SEEDED IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR 7 DAYS.
 - (e.) CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OF OTHER POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
 - (f.) THE RESIDENT ENGINEER SHALL INSPECT THE PROJECT DAILY DURING CONSTRUCTION ACTIVITIES. INSPECTION SHALL ALSO BE DONE WEEKLY AND AFTER RAINS OF 1/2 INCH OR GREATER OR EQUIVALENT SNOWFALL AND DURING THE WINTER SHUTDOWN PERIOD. THE PROJECT SHALL ADDITIONALLY BE INSPECTED BY THE CONSTRUCTION FIELD ENGINEER ON A BI-WEEKLY BASIS TO DETERMINE THAT EROSION CONTROL EFFORTS ARE IN PLACE AND EFFECTIVE AND IF OTHER EROSION CONTROL WORK IS NECESSARY.
 - (g.) SEDIMENT COLLECTED DURING CONSTRUCTION OF THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR EARTH EXCAVATION.
 - (h.) THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AFTER USE IS NO LONGER NEEDED OR NO LONGER FUNCTIONING. THE COST OF THIS REMOVAL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR TEMPORARY EROSION CONTROL SYSTEM.

DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING:

1. TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED.
2. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP, AND DISTURBED TURF RESEEDED.




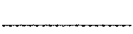

MAINTENANCE AFTER CONSTRUCTION:

1. CONSTRUCTION IS COMPLETE AFTER ACCEPTANCE BY I.D.O.T. FINAL INSPECTION. MAINTENANCE UP TO THIS DATE WILL BE BY THE CONTRACTOR.

MISCELLANEOUS:

1. STRAW BALES, HAY BALES, PERIMETER EROSION BARRIER AND SILT FENCES WILL NOT BE PERMITTED FOR TEMPORARY OR PERMANENT DITCH CHECKS. DITCH CHECKS SHALL BE COMPOSED OF AGGREGATE, SILT PANELS, ROLLED EXCELSIOR, URETHANE FOAM/GEOTEXTILE (SILT WEDGES), EARTH MEDIAN AND/OR OTHER MATERIAL APPROVED BY THE EROSION AND SEDIMENT CONTROL COORDINATOR.
2. TEMPORARY DITCH CHECKS SHALL BE LOCATED AT EVERY 3 FT. FALL/RISE IN DITCH GRADE.
3. TEMPORARY DITCH CHECKS, AGGREGATE USES GRADING NO. 3- REMOVE AT END OF CONSTRUCTION.
4. TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT A RATE OF 100 LBS/ACRES.
5. MULCH AS APPLIED TO TEMPORARY EROSION CONTROL SEEDING SHALL BE BY THE METHOD SPECIFIED IN THE CONTRACT AND AT THE DIRECTION OF THE ENGINEER. MULCH WILL BE PAID SEPARATELY AND SHALL CONFORM TO SECTION 251 OF THE STANDARD SPECIFICATIONS.
6. CONSTRUCT PERIMETER EROSION CONTROL AT BEGINNING OF CONSTRUCTION. REMOVE AT END OF CONSTRUCTION.
7. ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO THE APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.

LEGEND

-  TEMPORARY DITCH CHECK- ROLLED EXCELSIOR, SILT WEDGES/PANELS
-  TEMPORARY DITCH CHECK- AGGREGATE
-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER- SILT FILTER FENCE OR OTHER AS APPROVED BY THE ENGINEER
-  INLET AND PIPE PROTECTION- STRAW BALES, FILTER FABRIC, AGGREGATES


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
STORM WATER POLLUTION
PREVENTION PLAN
FAP ROUTE 609 (IL RTE. 163)
SECTION 76-3BR
ST. CLAIR COUNTY

SCALE: VERT. _____
HORIZ. _____
DATE 4/19/05

DRAWN BY: SUTHEARD
DESIGNED BY: SUTHEARD
CHECKED BY: COLBROOK

COMPUTER FILE NO.
SWPPP-2
PROJECT 02076
6/24/05-MDS

 GREENE & BRADFORD, INC.
OF GREENFIELD
CONSULTING ENGINEERS
PROFESSIONAL ENGINEERS
REGISTERED IN THE STATE OF ILLINOIS
PROFESSIONAL DESIGN CORPORATION
031 792-8944, 800 752 7212, FAX 792-8944, WWW.GRENEBRADFORD.COM

PLOT DATE = 6/28/2005
FILE NAME = J:\2005\DRAWINGS\SWPPP.dgn
PLOT SCALE = 0.800000 / IN.
REFERENCE = REF.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
609	76-3BR	ST. CLAIR	46	16
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

STORM WATER POLLUTION PREVENTION PLAN

THE FOLLOWING PLAN IS ESTABLISHED AND INCORPORATED IN THE PROJECT TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM SEWER WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE EROSION WITHIN THE CONSTRUCTION SITE AND TO LIMIT SEDIMENTS FROM LEAVING THE CONSTRUCTION SITE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN EROSION CONTROL FACILITIES SHALL BE INSTALLED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION DEPENDING ON THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL INSTALL PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A TIME FRAME SPECIFIED HEREIN AND AS DIRECTED BY THE ENGINEER, THEREFORE MINIMIZING THE AMOUNT OF AREA SUSCEPTIBLE TO EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE ENGINEER WILL DETERMINE IF ANY TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS, WHICH ARE NOT INCLUDED IN THIS PLAN, SHALL BE ADDED. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

1. THE PROJECT CONSISTS OF THE REMOVAL AND REPLACEMENT OF THE STRUCTURE CARRYING FAP RTE 609 (IL RTE 163) OVER PRAIRIE DUPONT CREEK, WITH ADJUSTMENT OF THE ROADWAY PROFILE AND RELATED ROADWAY WORK.
2. CONSTRUCTION INCLUDES STRUCTURE REMOVAL AND REPLACEMENT, REMOVAL AND REPLACEMENT OF GUARD RAIL AND BRIDGE RAIL, BITUMINOUS CONCRETE BINDER AND SURFACE COURSES, BITUMINOUS CONCRETE SHOULDERS, AGGREGATE SHOULDERS AND RELATED SLOPE/DITCH WORK, AND SEEDING/MULCHING.

DESCRIPTION OF INTENDED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE:

1. EXCAVATION AND EMBANKMENT WILL BE COMPLETED ALONG THE JOB SITE TO GRADE OUT FOR PROPOSED SHOULDERS AND DITCHES.
2. TREE REMOVAL ALONG THE EAST SIDE OF IL RTE 163. TREES TO REMAIN WILL BE PROTECTED AGAINST DAMAGE.
3. BRIDGE REMOVAL AND REPLACEMENT
4. PLACEMENT, MAINTENANCE, REMOVAL AND PROPER CLEAN-UP OF TEMPORARY EROSION CONTROL, SUCH AS PERIMETER EROSION BARRIER, TEMPORARY DITCH CHECKS, INLET AND PIPE PROTECTION, TEMPORARY SEEDING, ETC.
5. PLACEMENT OF PERMANENT EROSION CONTROL, SUCH AS RIPRAP DITCH, AND SEEDING.
6. FINAL GRADING, PAVING, AND OTHER MISCELLANEOUS ITEMS.

AREA OF CONSTRUCTION SITE:

THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 1.9 ACRES OF WHICH 1.4 ACRES WILL BE DISTURBED BY EXCAVATION, GRADING, AND OTHER ACTIVITIES.

OTHER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS:

1. INFORMATION OF THE SOILS AND TERRAIN WITHIN THE SITE WAS OBTAINED FROM TOPOGRAPHIC SURVEYS AND SOIL BORINGS THAT WERE UTILIZED FOR THE DEVELOPMENT OF THE PROPOSED TEMPORARY EROSION CONTROL SYSTEMS.
2. PROJECT PLAN DOCUMENTS, STANDARD SPECIFICATIONS, AND PLAN DRAWINGS INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER GRADING ACTIVITIES WERE UTILIZED FOR THE PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.

DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF FROM THIS CONSTRUCTION SITE:

1. PRAIRIE DUPONT CREEK

CONTROLS • EROSION CONTROLS AND SEDIMENT CONTROL

DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:

1. THE DRAWINGS, SPECIFICATIONS AND SPECIAL PROVISIONS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES INCLUDE: TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, PROTECTION OF TREES, PRESERVATION OF MATURE VEGETATION, AND OTHER APPROPRIATE MEASURES AS DIRECTED BY THE ENGINEER. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
 - (a.) AREAS OF EXISTING VEGETATION (WOOD AND GRASSLANDS) OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE IDENTIFIED BY THE ENGINEER FOR PRESERVING AND SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES.
 - (b.) DEAD, DISEASED, OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER, ALONG WITH REQUIRED TREE REMOVAL.
 - (c.) AS SOON AS REASONABLE ACCESS IS AVAILABLE TO ALL LOCATIONS WHERE WATER DRAINS AWAY FROM THE PROJECT, TEMPORARY DITCH CHECKS, INLET AND PIPE PROTECTION, AND PERIMETER EROSION BARRIER SHALL BE INSTALLED AS CALLED OUT IN THIS PLAN AND DIRECTED BY THE ENGINEER.
 - (d.) BARE AND SPARSELY VEGETATED GROUND IN HIGH ERODABLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDED AT THE BEGINNING OF CONSTRUCTION WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN DAYS.
 - (e.) IMMEDIATELY AFTER TREE REMOVAL IS COMPLETED, AREAS WHICH ARE HIGHLY ERODABLE AS DETERMINED BY THE ENGINEER, SHALL BE TEMPORARILY SEEDED WHEN NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN DAYS.
 - (f.) AT LOCATIONS WHERE A SIGNIFICANT AMOUNT OF WATER DRAINS INTO THE CONSTRUCTION ZONE FROM OUTSIDE AREAS (ADJACENT LANDOWNERS), TEMPORARY DITCH CHECKS WILL BE UTILIZED TO LOCALLY DIVERT WATER, REDUCE FLOW RATES, AND COLLECT OUTSIDE SILTATION INSIDE THE RIGHT-OF-WAY LINE.
2. ESTABLISHMENT OF THESE TEMPORARY EROSION CONTROL MEASURES WILL HAVE ADDITIONAL BENEFITS TO THE PROJECT. DESIRABLE GRASS SEED WILL BECOME ESTABLISHED IN THESE AREAS AND WILL SPREAD SEEDS ONTO THE CONSTRUCTION SITE UNTIL PERMANENT SEEDING/MOWING AND OVERSEEDING CAN BE COMPLETED.

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER ILR10, ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

Mano Ramo
 DEPUTY DIRECTOR OF HIGHWAYS
 REGION FIVE ENGINEER

8/31/05
 DATE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
STORM WATER POLLUTION PREVENTION PLAN
 FAP ROUTE 609 (IL RTE. 163)
 SECTION 76-3BR
 ST. CLAIR COUNTY

SCALE: VERT. _____
 HORIZ. _____
 DATE 4/19/05

DRAWN BY: SUTHEARD
 DESIGNED BY: SUTHEARD
 CHECKED BY: COLBROOK

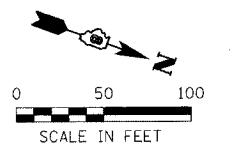
GREENE & BRADFORD, INC.
 OF SPRINGFIELD
 CIVIL ENGINEERS
 REGISTERED PROFESSIONAL ENGINEERS
 PROFESSIONAL ENGINEER NO. 12120
 PROFESSIONAL ENGINEER NO. 12121
 PROFESSIONAL ENGINEER NO. 12122
 PROFESSIONAL ENGINEER NO. 12123

COMPUTER FILE NO.
 SWPPP-1
 PROJECT 02076
 6/24/05-MDS

PLOT DATE = 6/30/2005
 FILE NAME = J:\A2076\DRAWINGS\SWPPP.dgn
 PLOT SCALE = 50x2000 / IN.
 REFERENCE = .REF.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
609	***	ST. CLAIR	46	17
STA. 133+00		TO STA. 143+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

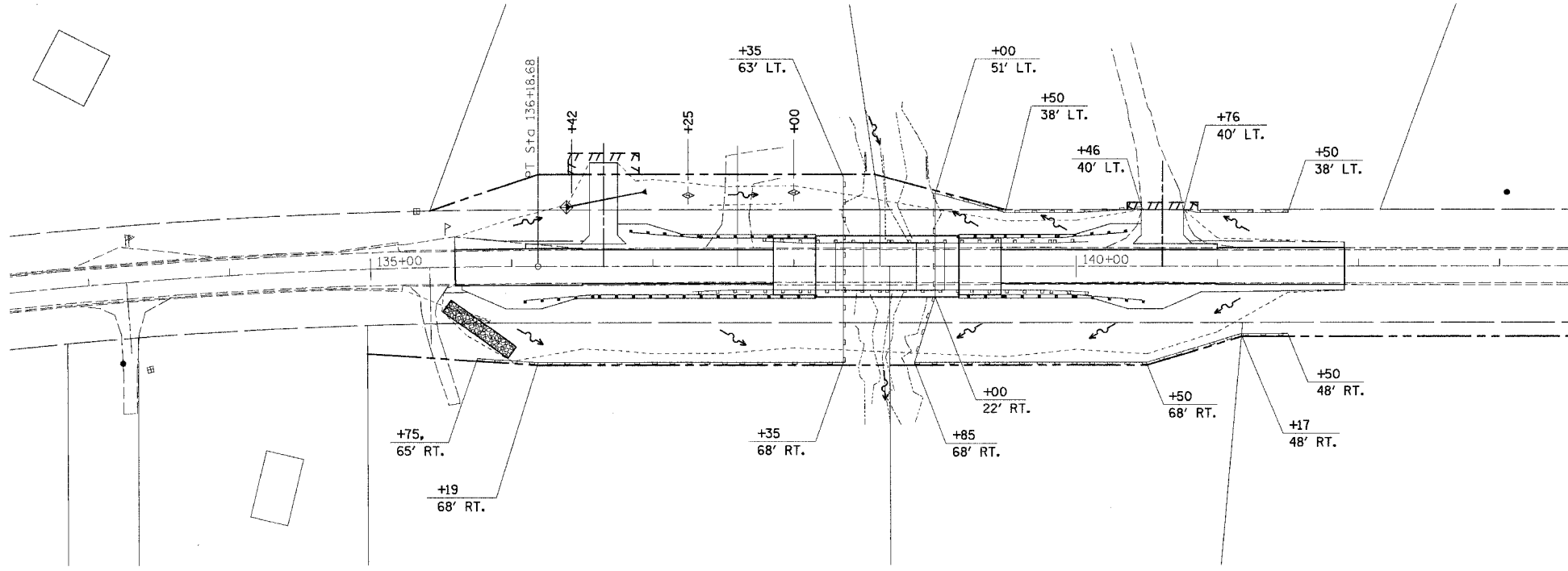
*** SEC. 76-3BR
CONTRACT NO. 76268



PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	ADJUSTMENT CHECKED		
	RT. OF WAY CHECKED		
	POB FILE NAME		

PROF FILE	SURVEYED	BY	DATE
NOTE BOOK NO.	GRANDS CHECKED		
	BEAM NOTED		
	STRUCTURE NOTATIONS CHKD		

FILE NAME = J:\0206\DRAWINGS\ER63BR.dgn
 PLOT DATE = 8/30/05 4:01:35 PM
 PLOT DATE = 8/30/05 4:01:35 PM
 OPERATOR = MDP/KS



LEGEND

- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
- INLET AND PIPE PROTECTION
- CONSTRUCTION LIMITS
- STONE RIPRAP, CLASS A4

ILLINOIS DEPARTMENT OF TRANSPORTATION
STORM WATER POLLUTION PREVENTION PLAN
 FAP ROUTE 609 (IL. RTE. 163)
 SECTION 76-3BR
 ST. CLAIR COUNTY

REVISIONS	
NAME	DATE

SCALE: VERT. _____
 HORIZ. _____
 DATE: 10/11/04

DRAWN BY: SUTHEARD
 DESIGNED BY: COLBROOK
 CHECKED BY: COLBROOK

GREENE & BRADFORD, INC.
 OF SPENSFIELD
 CONSULTING ENGINEERS
 PROFESSIONAL ENGINEERING FIRM NO. 041-0074
 2011 W. 85th St. P.O. Box 1077, Springfield, IL 62762

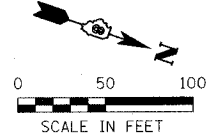
COMPUTER FILE NO.
 ER163BR
PROJECT 02076
 4/19/05-MDS

IDOTPL-50 1"=50' 8/07/00

STORM WATER POLLUTION PREVENTION PLAN

PAVEMENT MARKING PLAN

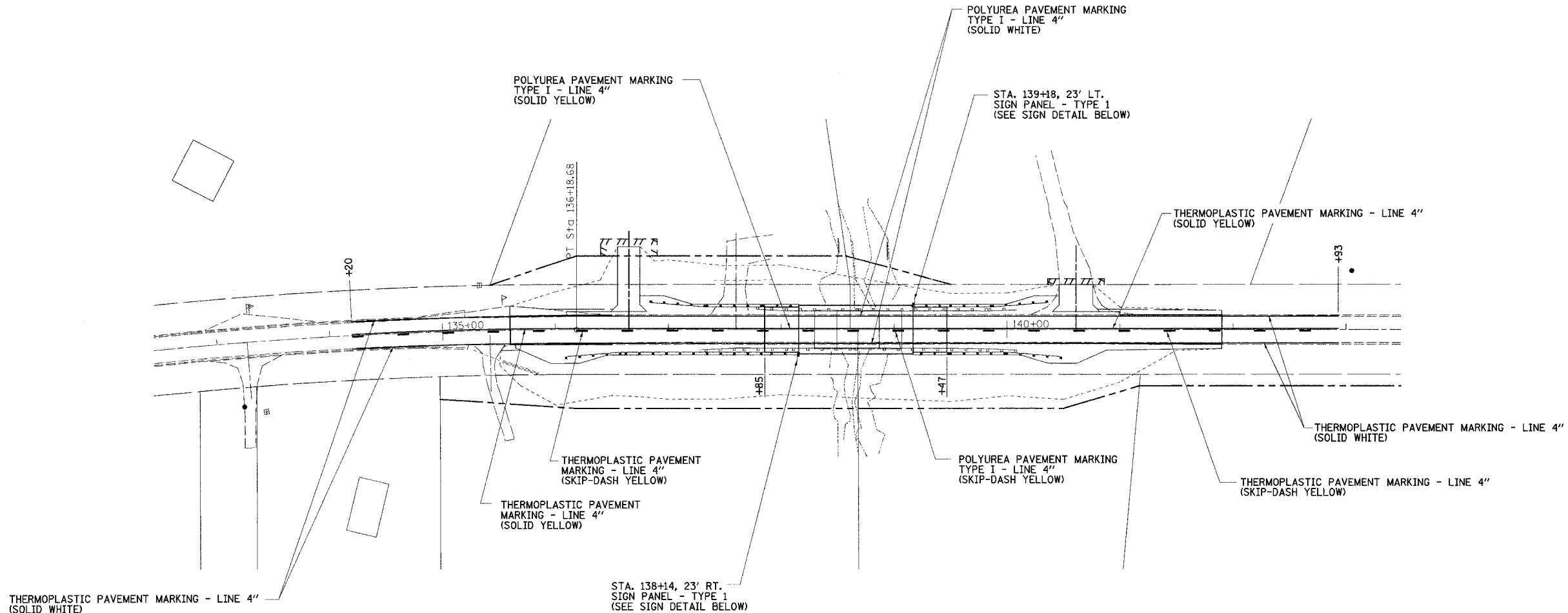
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
609	***	ST. CLAIR	46	18
STA. 133+00		TO STA. 143+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
*** SEC. 76-3BR				
CONTRACT NO. 76268				



PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	ADJUSTMENT CHECKED		
	FIELD NOTES CHECKED		
	FIELD FILE NAME		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	GRADES CHECKED		
	SK. NOTES		
	STRUCTURE INSTANT'S CHG		

FILE NAME = #FILES
 PLOT DATE = 6/30/2005
 OPERATOR = MDC/KS



LEGEND

- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
- INLET AND PIPE PROTECTION
- CONSTRUCTION LIMITS
- STONE RIPRAP, CLASS A4



3.0" Radius, 1.0" Border, White on Green;
 [PRAIRIE] D; [DU PONT] D;
 [CREEK] D;

SIGN DETAIL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING PLAN
 FAP 609 (IL. RTE. 163)
 SECTION 76-3BR
 ST. CLAIR COUNTY

SCALE: VERT. _____
 HORIZ. _____
 DATE: 10/11/04

DRAWN BY: SUTHEARD
 DESIGNED BY: COLBROOK
 CHECKED BY: COLBROOK

COMPUTER FILE NO.
 MKG163BR

PROJECT 02076
 6/30/05-MDS

GREENE & BRADFORD, INC.
 OF SPENGLER
 CONSULTING ENGINEERS
 1000 W. WASHINGTON ST.
 SPRINGFIELD, ILLINOIS 62767
 PHONE: 217-223-8800 FAX: 217-223-8801
 WWW: WWW.GRENEANDBRADFORD.COM

PART OF THE E. 1/2 OF THE NE. 1/4 OF SECTION 33, T.1N., R.9W., OF THE 3RD PM, ST. CLAIR COUNTY, ILLINOIS

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

LEGEND

TOTAL SHEETS	SHEET NO.
46	19

EXISTING R.O.W. RECORDED INFORMATION		
PARCEL	BOOK/PAGE	DATE RECORDED
8906001	692/475	JANUARY 23, 1931
8906004	692/475	JANUARY 23, 1931

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
128+09.18	€	665219.9703	2317630.9933
134+95.89	€	665834.0703	2317325.7405
134+95.89	60' RT.	665855.8453	2317381.6498
136+18.68	70' RT.	665972.4803	2317349.0319
136+18.68	€	665949.1821	2317283.0229
138+68.09	70' RT.	666207.6744	2317266.0278
140+50.00	70' RT.	666379.2139	2317205.4885
141+17.06	50' RT.	666435.7998	2317164.3094
144+31.15	50' RT.	666731.9776	2317059.7830
144+34.14	€	666718.1609	2317011.6367

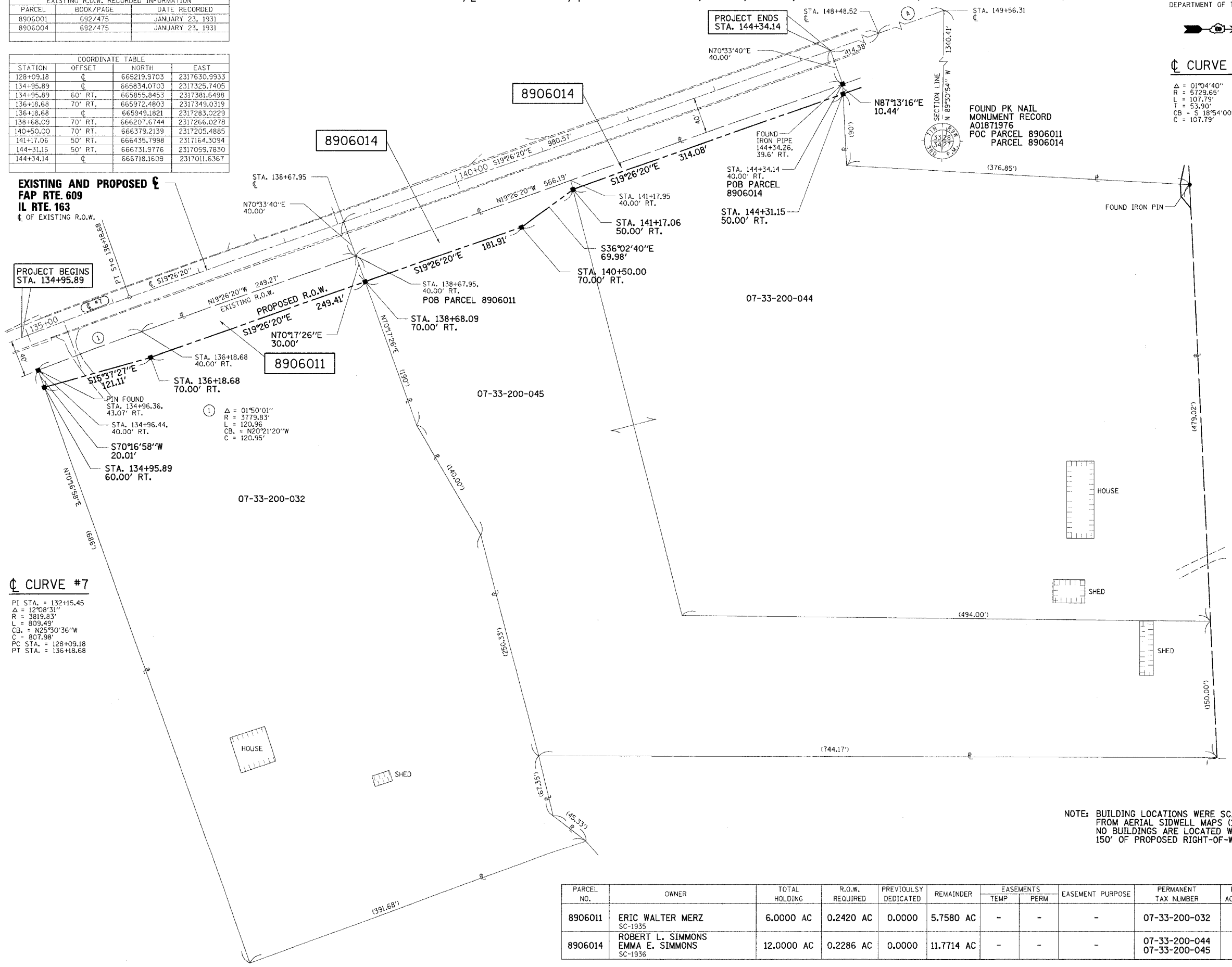
EXISTING AND PROPOSED € FAP RTE. 609 IL RTE. 163
€ OF EXISTING R.O.W.

PROJECT BEGINS STA. 134+95.89

€ CURVE #7

PI STA. = 132+15.45
 $\Delta = 12^{\circ}08'31''$
 R = 3819.83'
 L = 809.49'
 CB. = N25°30'36"W
 C = 807.98'
 PC STA. = 128+09.18
 PT STA. = 136+18.68

① $\Delta = 01^{\circ}50'01''$
 R = 3179.83'
 L = 120.96'
 CB. = N20°21'20"W
 C = 120.95'



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

- EXISTING BUILDING
- 121.45 MEASURED DIMENSION
- 123.45 (COMP) COMPUTED DIMENSION
- (123.45) RECORDED DIMENSION
- ITALICS FRACTION SECTION DIMENSIONS
- ▲ FOUND STONE
- FOUND IRON PIPE OR IRON ROD
- SET 1/2 INCH IRON ROD
- ⊙ PERMANENT SURVEY MONUMENT, I.O.T. STD. 2135
- ⊕ (TO BE SET BY OTHERS) CUT CROSS FOUND OR SET
- SAME OWNERSHIP

- STAKING OF PROPOSED RIGHT OF WAY. SET 1/2 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 1/2 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

STATE OF ILLINOIS)
 COUNTY OF) SS

I, RICHARD TONELLATO, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, CERTIFY THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED _____
 RICHARD TONELLATO, PLS NO. 2590
 LICENSE EXPIRATION DATE: 11/30/2006



NOTE: BUILDING LOCATIONS WERE SCALED FROM AERIAL SIDWELL MAPS (1994). NO BUILDINGS ARE LOCATED WITHIN 150' OF PROPOSED RIGHT-OF-WAY.

PARCEL NO.	OWNER	TOTAL HOLDING	R.O.W. REQUIRED	PREVIOUSLY DEDICATED	REMAINDER	EASEMENTS		EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
						TEMP	PERM			
8906011	ERIC WALTER MERZ SC-1935	6.0000 AC	0.2420 AC	0.0000	5.7580 AC	-	-	-	07-33-200-032	
8906014	ROBERT L. SIMMONS EMMA E. SIMMONS SC-1936	12.0000 AC	0.2286 AC	0.0000	11.7714 AC	-	-	-	07-33-200-044 07-33-200-045	

GREENE & BRADFORD, INC. OF SPRINGFIELD ILLINOIS 2598 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS 1102 EASTPORT PLAZA DRIVE COLLINGSVILLE, ILLINOIS 62234-6198	COMPUTER FILE RPL163
	PROJECT: 02076 02/24/04-RPB
ILLINOIS DEPARTMENT OF TRANSPORTATION PLAT OF HIGHWAYS FAP ROUTE 609 (IL RTE. 163) SECTION 76-3BR ST. CLAIR COUNTY JOB NO. R-98-006-99	
STATION 134+96 TO STATION 144+50 SCALE: 1" = 50'	
ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS/DISTRICT 8 1102 EASTPORT PLAZA DRIVE COLLINGSVILLE, ILLINOIS 62234-6198	

FILE NAME: I:\02076\DRAWINGS\APR163.dwg
 PLOT SCALE: 1"=50'
 PLOT DATE: 02/24/04 10:52:48 AM
 PLOT TIME: 4:03:03 PM
 OPERATOR:

PART OF THE E. 1/2 OF THE NE. 1/4 OF SECTION 33, T.1N., R.9W., OF THE 3RD PM, ST. CLAIR COUNTY, ILLINOIS

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

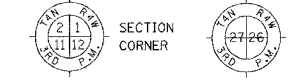
LEGEND

TOTAL SHEETS	SHEET NO.
46	20

EXISTING R.O.W. RECORDED INFORMATION		
PARCEL	BOOK/PAGE	DATE RECORDED
8906002	692/486	JANUARY 23, 1931
8906003	692/486	JANUARY 23, 1931

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
128+09.18	0	665219.9703	2317630.9933
134+95.89	0	665834.0703	2317325.7405
135+42.61	40' LT.	665863.6468	2317271.6035
136+18.68	65' LT.	665927.5523	2317221.7273
136+18.68	0	665949.1821	2317283.0229
138+57.21	65' LT.	666152.4856	2317142.3444
139+50.00	40' LT.	666248.3062	2317135.0388
144+34.14	0	666718.1609	2317011.6367

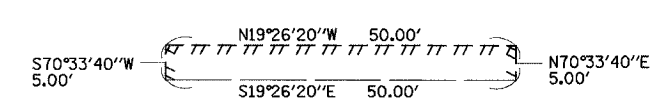
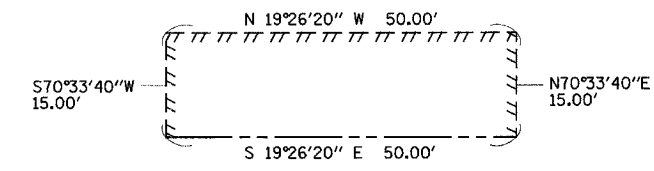
PARCEL NO.	OWNER	TOTAL HOLDING	R.O.W. REQUIRED	PREVIOUSLY DEDICATED	REMAINDER	EASEMENTS		EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
						TEMP	PERM			
8906012	RALPH G. BUEHLER & JOAN CORBETT SC-1922	8.8900 AC	0.1598 AC	0.0000	8.7302 AC	0.0172 AC 750 S.F.	-	CONSTRUCTION	07-33-200-050	
8906013	JOSEPH F. ORSA & KAREN M. ORSA SC-1924	5.0000 AC	0.0256 AC	0.0000	4.9744 AC	0.0057 AC 250 S.F.	-	CONSTRUCTION	07-33-200-039	



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

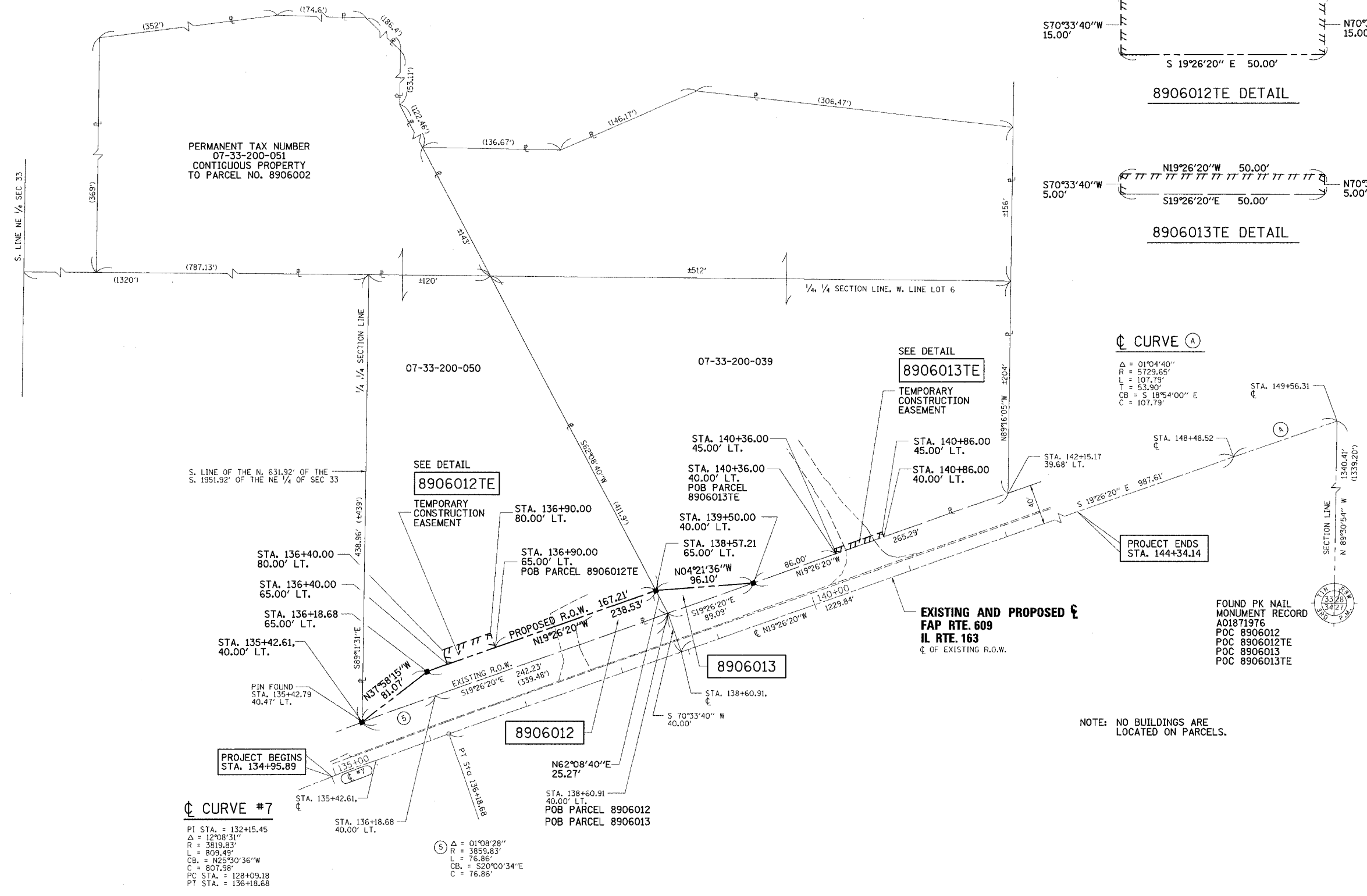
- EXISTING BUILDING
- 121.45 MEASURED DIMENSION
- 123.45 (COMP) COMPUTED DIMENSION
- (123.45) RECORDED DIMENSION
- ITALICS FRACTION SECTION DIMENSIONS
- ▲ FOUND STONE
- FOUND IRON PIPE OR IRON ROD
- SET 5/8 INCH IRON ROD
- ⊙ PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- ⊕ CUT CROSS FOUND OR SET
- SAME OWNERSHIP

- STAKING OF PROPOSED RIGHT OF WAY. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.



⊙ CURVE (A)

Δ = 01°04'40"
R = 5729.65'
L = 107.73'
T = 53.90'
CB = S 18°54'00" E
C = 107.79'



STATE OF ILLINOIS)
COUNTY OF) SS
I, RICHARD TONELLATO, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, CERTIFY THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.
DATED _____
RICHARD TONELLATO, PLS NO. 2590
LICENSE EXPIRATION DATE: 11/30/2006



FOUND PK NAIL MONUMENT RECORD A01871976
POC 8906012
POC 8906012TE
POC 8906013
POC 8906013TE

NOTE: NO BUILDINGS ARE LOCATED ON PARCELS.

	GREEN & BRADFORD, INC. OF SPRINGFIELD	COMPUTER FILE RPL163
	PROJECT: 02076 02/24/04-RPB	
ILLINOIS DEPARTMENT OF TRANSPORTATION PLAT OF HIGHWAYS FAP ROUTE 609 (IL RTE. 163) SECTION 76-3BR ST. CLAIR COUNTY JOB NO. R-98-006-99		
STATION 135+00 TO STATION 142+50 SCALE 1" = 50'		
ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS-DISTRICT 8 1102 EASTPORT PLAZA DRIVE COLLINGSVILLE, ILLINOIS 62234-6198		

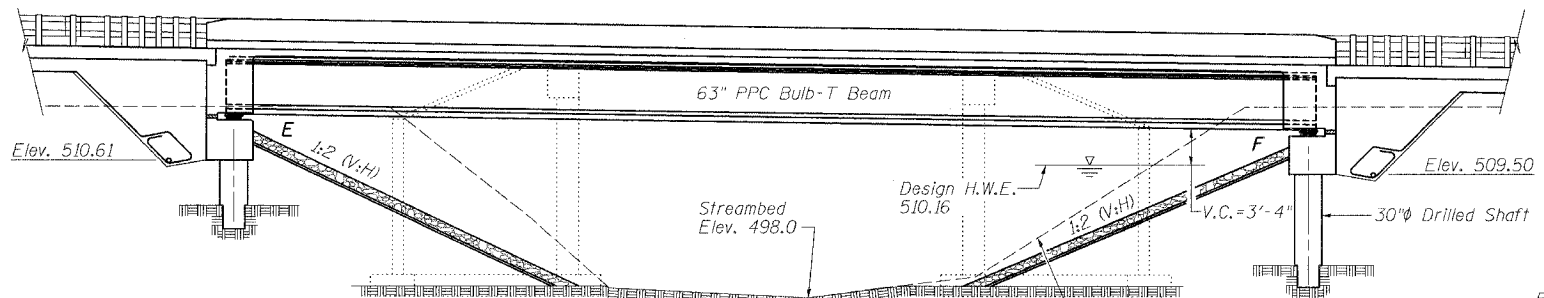
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OPERATOR: [unreadable]

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

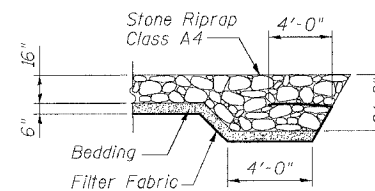
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL	SHEET NO.
FAP 609		ST. CLAIR	46	21	15 SHEETS
FED. ROAD DIST. NO.					76268
ILLINOIS					FED. PROJ. NO.
76-3BR					

Existing Structure: S.N. 082-0134. Built 1931 as FAS 841 Sect. 76-150 Sta. 252+20 with RC Girders & RC closed abutments. Rebuilt superstructure and widened, 1971. Single span (38'-0" Bk. - Bk. x 24'-0" ff) PPC Dk. Bm. (17"). To be removed in Stages to maintain one lane of traffic at all times. No Salvage.

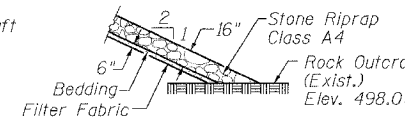
Bench Mark: Chiseled "□" in N.E. Wingwall. Elevation 516.93



ELEVATION



SECTION A-A



STONE RIPRAP DETAIL

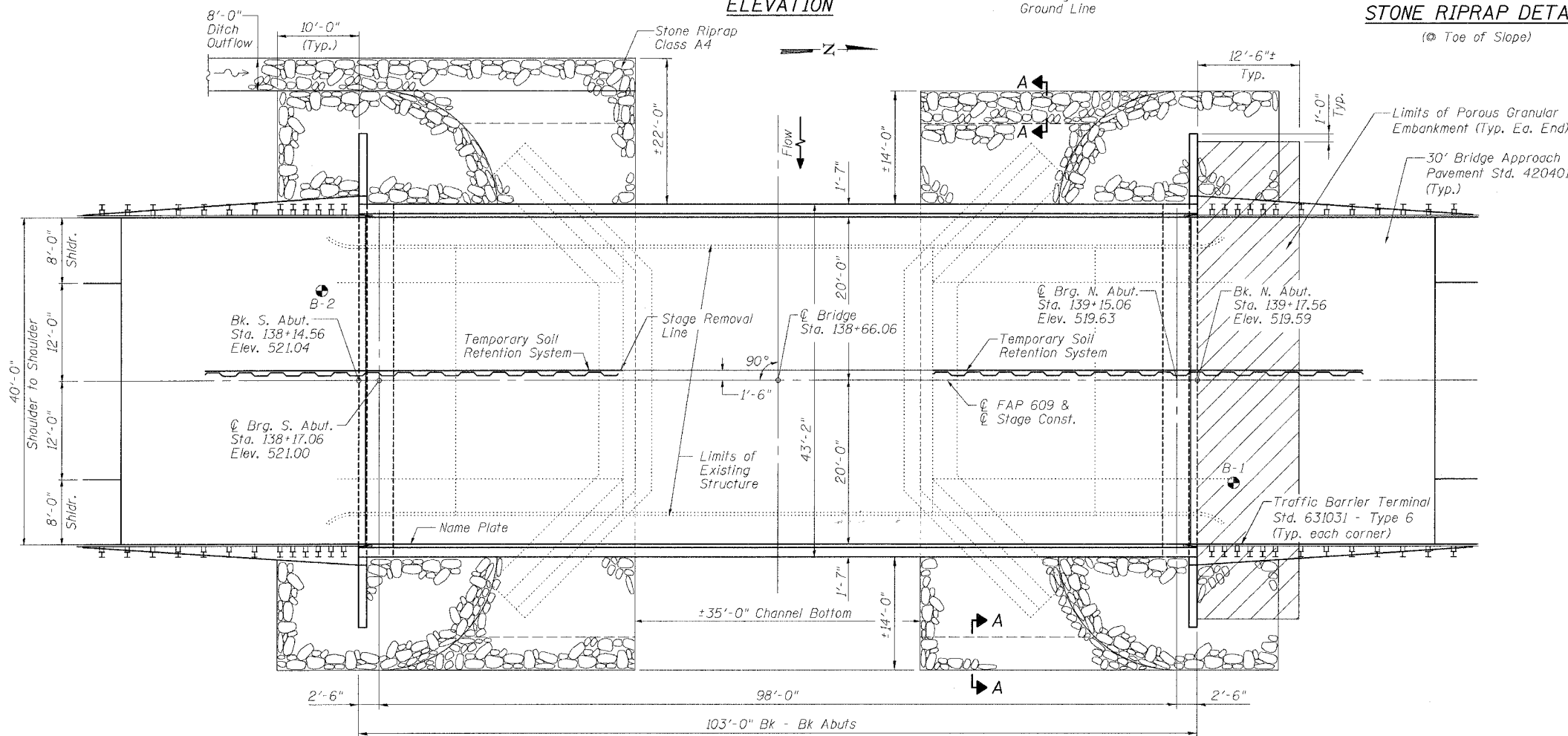
(@ Toe of Slope)

GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
All construction joints shall be bonded.
Excavation behind existing abutment walls shall be done before removing the existing superstructure. The Contractor shall sawcut the existing abutments at the stage removal line before stage I removal.
All new structural steel shall be shop painted with an inorganic zinc rich primer per AASHTO M300, Type 1.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.	-	319.2	319.2
Stone Riprap, Class A4	Sq. Yd.	-	581	581
Filter Fabric for use with Riprap	Sq. Yd.	-	581	581
Removal of Existing Structures	Each	-	-	1
Structure Excavation	Cu. Yd.	-	626	626
Concrete Structures	Cu. Yd.	-	61.3	61.3
Concrete Superstructure	Cu. Yd.	202.3	-	202.3
Bridge Deck Grooving	Sq. Yd.	428	-	428
Protective Coat	Sq. Yd.	544	-	544
Elastomeric Bearing Assembly, Type I	Each	6	-	6
Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams 63"	Foot	596	-	596
Furnishing and Erecting Structural Steel	Pound	3841.6	-	3841.6
Reinforcement Bars, Epoxy Coated	Pound	31,900	10,730	42,630
Name Plates	Each	-	-	1
Temporary Soil Retention System	Sq. Ft.	-	1189	1189
Bar Splicers	Each	392	24	416
Drilled Shaft in Soil 30"	Foot	-	100.9	100.9
Drilled Shaft in Rock 24"	Foot	-	32	32



PLAN

WATERWAY INFORMATION TABLE

Drainage Area = 4.413 Sq. Mi. Low Grade Elev. = 516.58 @ Sta. 142+67.81

Flood	Freq. Yr.	Q C.F.S.	Opening, Sq. Ft.		Natural Head - Feet		Headwater Elev.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Design	50	2,954	347	676	510.16	1.09	0.43	511.25	510.59
Base	100	3,442	356	698	510.44	1.70	0.70	512.14	511.14
Overtopping									
Max. Calc.	500	4,637	373	737	510.92	3.22	1.46	514.14	512.38

DESIGN SPECIFICATIONS

2002 AASHTO
LOADING HS20-44
Allow 50#/sq. ft. for future wearing surface.

PRECAST PRESTRESSED UNITS

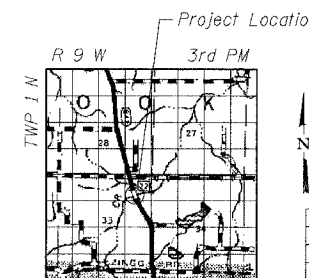
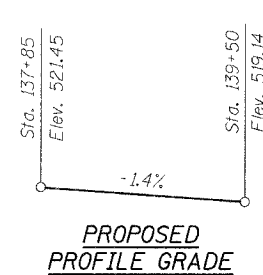
f'c = 6,000 psi
f'ci = 5,000 psi
f's = 270,000 psi (1/2" φ low lax strands)
f'si = 201,960 psi (1/2" φ low lax strands)

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinf.)

SEISMIC DATA

Seismic Performance Category (SPC) = B
Bedrock Acceleration Coefficient (A) = 0.115
Site Coefficient (S) = 1.2



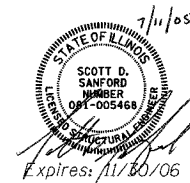
LOCATION SKETCH

NAME PLATE
See Std. 515001

STATION 138+66.06
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RT. 609 SEC. 76-3BR
LOADING HS20
STR. NO. 082-0305

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Robert E. Anderson (TS)
ENGINEER OF BRIDGES AND STRUCTURES



ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN AND ELEVATION

FAP RTE 609 (L. 163) PRAIRIE DUPONT CR.
SECTION 76-3BR
ST. CLAIR COUNTY
STA. 138+66.06
S.N. 082-0305

SCALE: VERT.
HORIZ.
DATE: 7/26/04

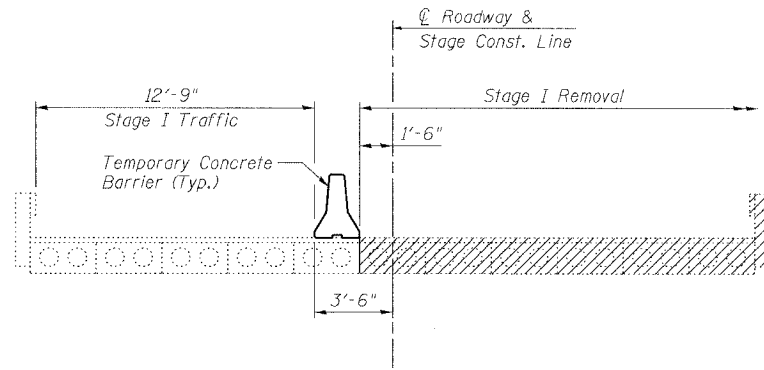
DRAWN BY: LANDREY
DESIGNED BY: WATKINS
CHECKED BY: SANFORD
COMPUTER FILE NO.
SN0820305_GPE
PROJECT
7/1/05-MML

REVISIONS	
NAME	DATE

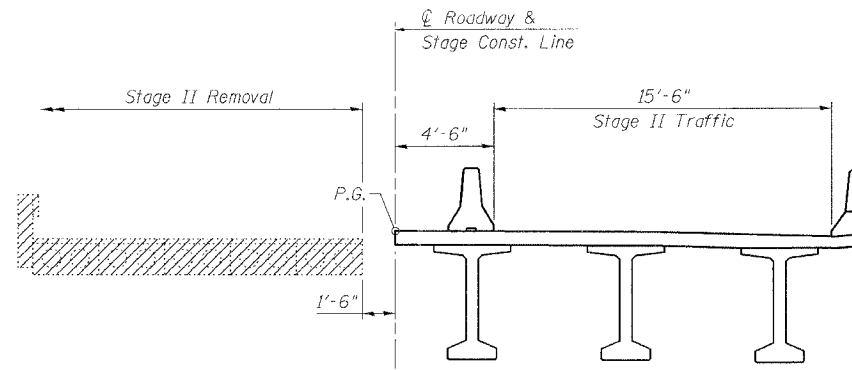
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PLOT SCALE = 1/8" = 1'-0"
PLOT DATE = 7/27/05
PLOT TIME = 11:36:48 AM
OPERATOR = michellel

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET	SHEET NO. 2 15 SHEETS
FAP 609	*	ST. CLAIR	46	22	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-			76268
* 76-3BR					

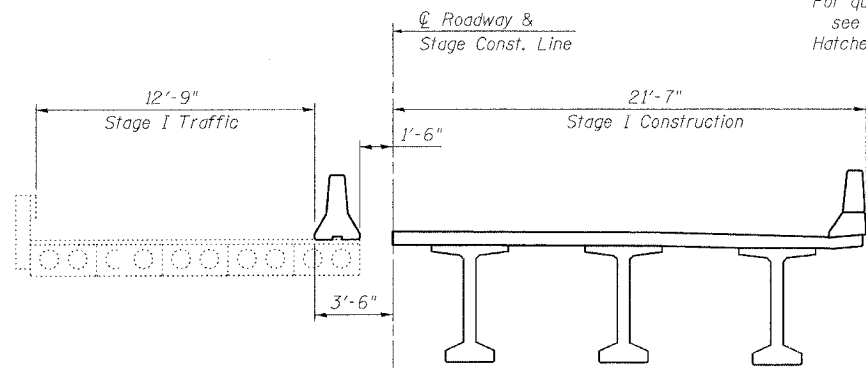


STAGE I REMOVAL

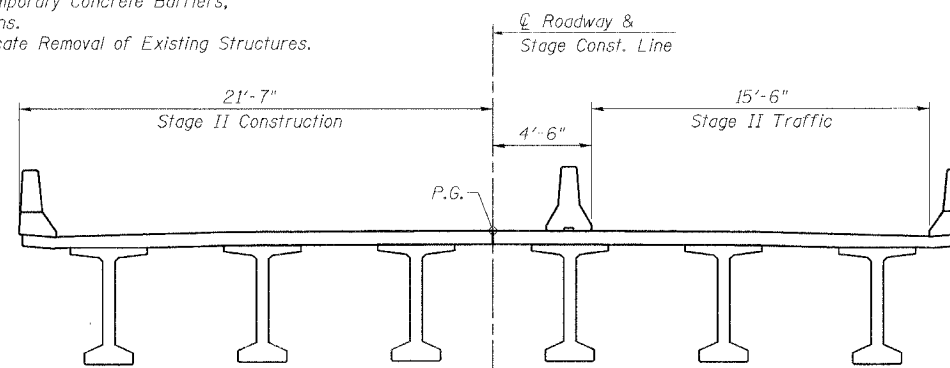


STAGE II REMOVAL

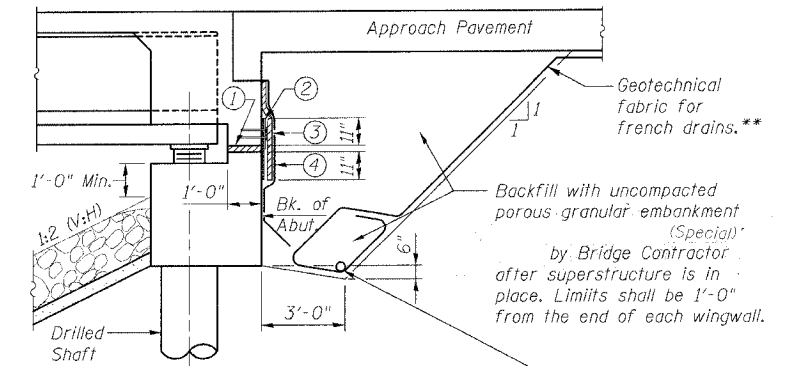
Notes: All cross sections are looking North.
For quantity of Temporary Concrete Barriers,
see Roadway Plans.
Hatched areas indicate Removal of Existing Structures.



STAGE I CONSTRUCTION



STAGE II CONSTRUCTION



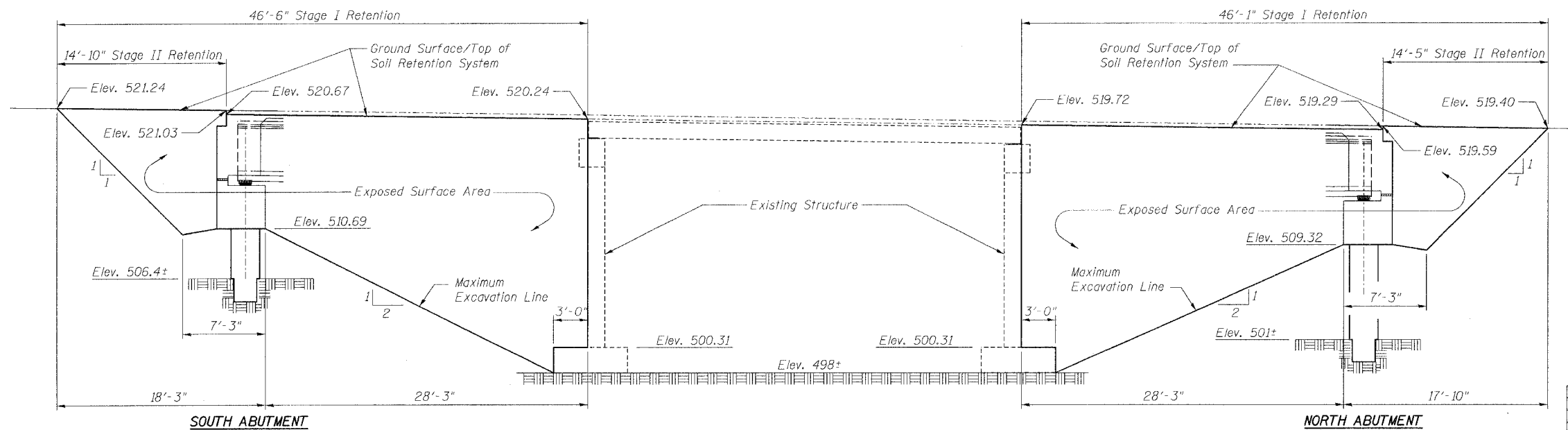
A 6"φ perforated drain pipe shall be situated at the bottom of an approximate 2' x 2' area of porous granular embankment (Special). 2' x 2' area shall be wrapped completely in geotechnical fabric for french drains. Extend pipe parallel with the cap until intersecting with the sideslope. Pipes shall drain onto concrete headwalls (Article 601.05 of the Std. Specifications and Highway Std. 601101).

- ① 2" Preformed Joint Filler (Section 1051 of the Standard Specifications) bonded to abutment cap with approved adhesive (full width of cap)
- ② Fabric Reinforced Elastomeric Mat (See Special Provisions). Fabric mat shall be 24" wide and attached full width to the abutment cap with a 3/8" x 5" steel plate and 1/2" φ studs with nuts and washers at 12" cts.
- ③ 2" Preformed Joint Filler (Section 1051 of the Standard Specifications) bonded to superstructure (full width of cap)
- ④ Geocomposite Wall Drain (Section 591 of the Standard Specifications - full width of cap)

Items ① ② ③ & ④ shall be included in the cost of Concrete Superstructure.

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

SECTION THRU SEMI-INTEGRAL ABUTMENT



TEMPORARY SOIL RETENTION SYSTEM

Note:
A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAILS
FAP RTE 609 (IL 163) PRAIRIE DuPONT CR.
SECTION 76-3BR
ST. CLAIR COUNTY
STA. 138+66.06
S.N. 082-0305

SCALE: VERT. _____
HORIZ. _____
DATE: 7/26/04

DRAWN BY: LANDREY
DESIGNED BY: WATKINS
CHECKED BY: SANFORD

GREENE & BRADFORD, INC.
CONSULTING ENGINEERS
3000 W. 111th St., Suite 100
Morton, IL 62450
PH: 618-994-1000 FAX: 618-994-1001
www.greenegb.com

COMPUTER FILE NO.
SN0820305_STG

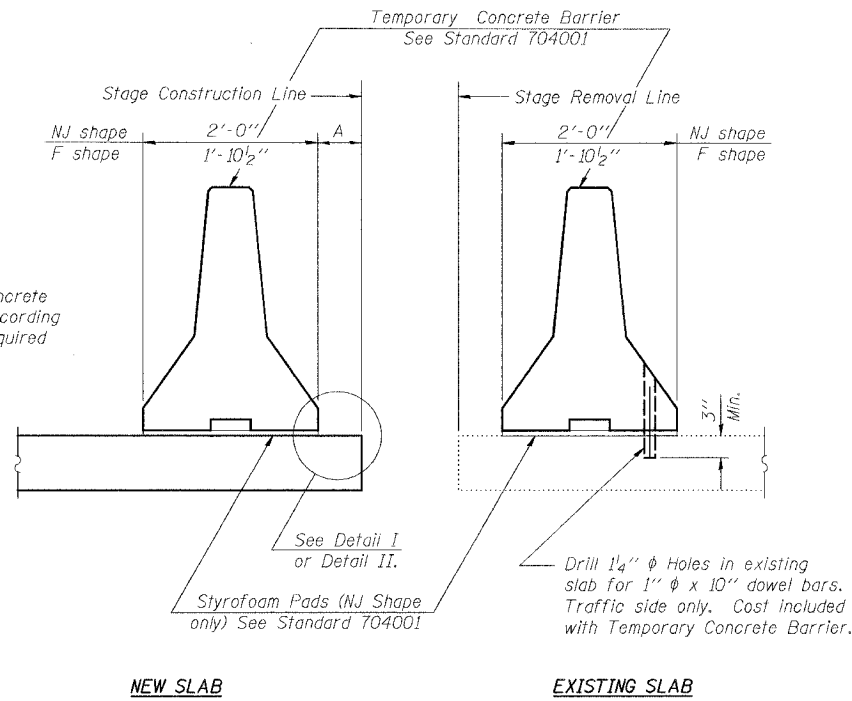
PROJECT 02076
4/28/05-NML

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PLOT TIME = 10:36:00 AM
OPERATOR = michellel

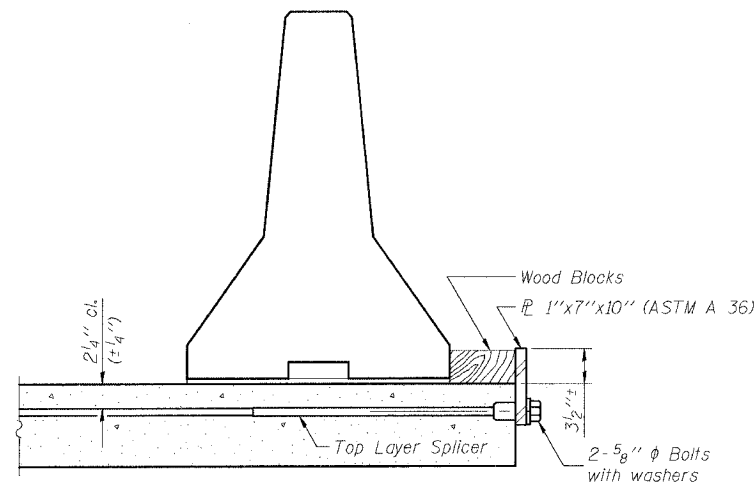
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3
FAP 609	*	ST. CLAIR	46	23	15 SHEETS
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-	76268		

* 76-3BR

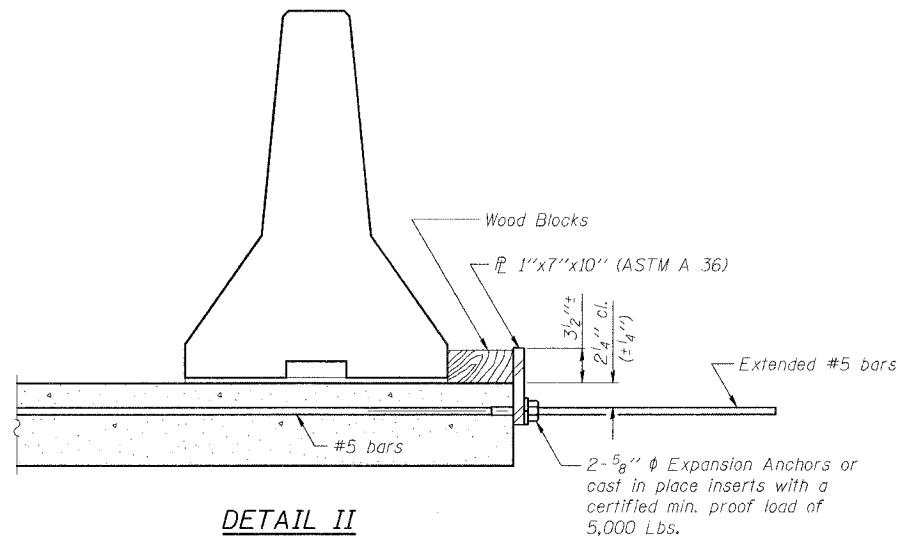


SECTIONS THRU SLAB



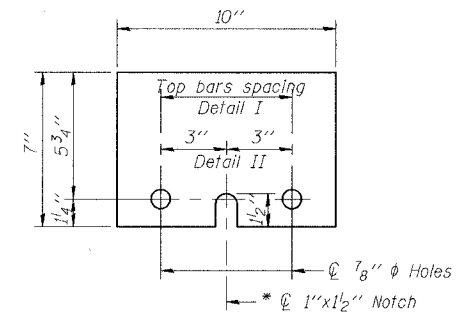
DETAIL I

The 1" x 7" x 10" Plate shall not be removed until Stage II Construction forms and reinforcement bars are in place.



DETAIL II

The 1" x 7" x 10" Plate shall not be removed until Stage II Construction forms and all reinforcement bars are in place and the concrete is ready to be placed.



1" x 7" x 10"

* Required only with Detail II

NOTES

- Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x 10" steel \bar{r} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{c} of each barrier panel.
- Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x 10" steel \bar{r} to the concrete slab with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{c} of each barrier panel.
- Cost of anchorage is included with Temporary Concrete Barrier.

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PLOT TIME = 03:56:01 AM
OPERATOR = michalei

R-27 9-01-03

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION

FAP RTE 609 (IL. 163) PRAIRIE DU PONT CR.
FAS RTE 609 - SEC. 76 BR-1
ST. CLAIR COUNTY
STA. 138+66.06
S.N. 082-0305

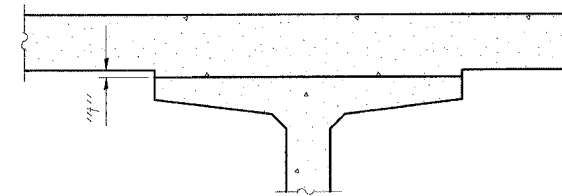
SCALE: VERT. DRAWN BY: LANDREY
 HORIZ. DESIGNED BY: WATKINS
DATE: 7/26/04 CHECKED BY: SANFORD

COMPUTER FILE NO.
SN0820305_TCB

PROJECT 02076
4/28/05-MML

GREENE & BRADFORD, INC.
OF SPRINGFIELD
REGISTERED PROFESSIONAL ENGINEERS
ILLINOIS LICENSE NO. 0215
PROFESSIONAL DESIGN FIRM NO. 04-0095
PROFESSIONAL & CONSULTING ENGINEERING CORPORATION
1211 7th Street, Suite 700, Springfield, IL 62761-1000
TEL: 217-789-4441 FAX: 217-789-4422

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

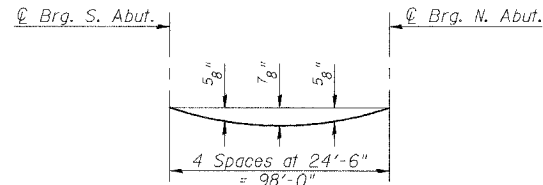


To determine "f": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted For Dead Load Deflections" show below, minus slab thickness, equals the fillet heights "f" above top flanges of beams.

FILLET HEIGHTS

ROUTE NO.	SECTION	COUNTY	DATE	SHEET	SHEET NO. 4
FAP 609	*	ST. CLAIR	46	24	15 SHEETS
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	76268		

* 76-3BR



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete, excluding beams).

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	138+14.56	-17.5	520.734	520.734
Cl. Brg. S. Abut.	138+17.06	-17.5	520.699	520.699
A	138+27.06	-17.5	520.559	520.584
B	138+37.06	-17.5	520.419	520.464
C	138+47.06	-17.5	520.279	520.338
D	138+57.06	-17.5	520.139	520.208
E	138+67.06	-17.5	519.999	520.072
F	138+77.06	-17.5	519.859	519.926
G	138+87.06	-17.5	519.719	519.776
H	138+97.06	-17.5	519.579	519.620
I	139+07.06	-17.5	519.439	519.459
Cl. Brg. N. Abut.	139+15.06	-17.5	519.327	519.327
Bk. of N. Abut.	139+17.56	-17.5	519.292	519.292

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	138+14.56	-10.5	520.872	520.872
Cl. Brg. S. Abut.	138+17.06	-10.5	520.837	520.837
A	138+27.06	-10.5	520.697	520.722
B	138+37.06	-10.5	520.557	520.602
C	138+47.06	-10.5	520.417	520.476
D	138+57.06	-10.5	520.277	520.346
E	138+67.06	-10.5	520.137	520.210
F	138+77.06	-10.5	519.997	520.064
G	138+87.06	-10.5	519.857	519.914
H	138+97.06	-10.5	519.717	519.758
I	139+07.06	-10.5	519.577	519.597
Cl. Brg. N. Abut.	139+15.06	-10.5	519.465	519.465
Bk. of N. Abut.	139+17.56	-10.5	519.430	519.430

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	138+14.56	-3.5	520.981	520.981
Cl. Brg. S. Abut.	138+17.06	-3.5	520.946	520.946
A	138+27.06	-3.5	520.806	520.831
B	138+37.06	-3.5	520.666	520.711
C	138+47.06	-3.5	520.526	520.585
D	138+57.06	-3.5	520.386	520.455
E	138+67.06	-3.5	520.246	520.319
F	138+77.06	-3.5	520.106	520.173
G	138+87.06	-3.5	519.966	520.023
H	138+97.06	-3.5	519.826	519.867
I	139+07.06	-3.5	519.686	519.706
Cl. Brg. N. Abut.	139+15.06	-3.5	519.574	519.574
Bk. of N. Abut.	139+17.56	-3.5	519.539	519.539

CENTERLINE RDWY. & STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	138+14.56	0.0	521.036	521.036
Cl. Brg. S. Abut.	138+17.06	0.0	521.001	521.001
A	138+27.06	0.0	520.861	520.886
B	138+37.06	0.0	520.721	520.766
C	138+47.06	0.0	520.581	520.640
D	138+57.06	0.0	520.441	520.510
E	138+67.06	0.0	520.301	520.374
F	138+77.06	0.0	520.161	520.228
G	138+87.06	0.0	520.021	520.078
H	138+97.06	0.0	519.881	519.922
I	139+07.06	0.0	519.741	519.761
Cl. Brg. N. Abut.	139+15.06	0.0	519.629	519.629
Bk. of N. Abut.	139+17.56	0.0	519.594	519.594

BEAM 4

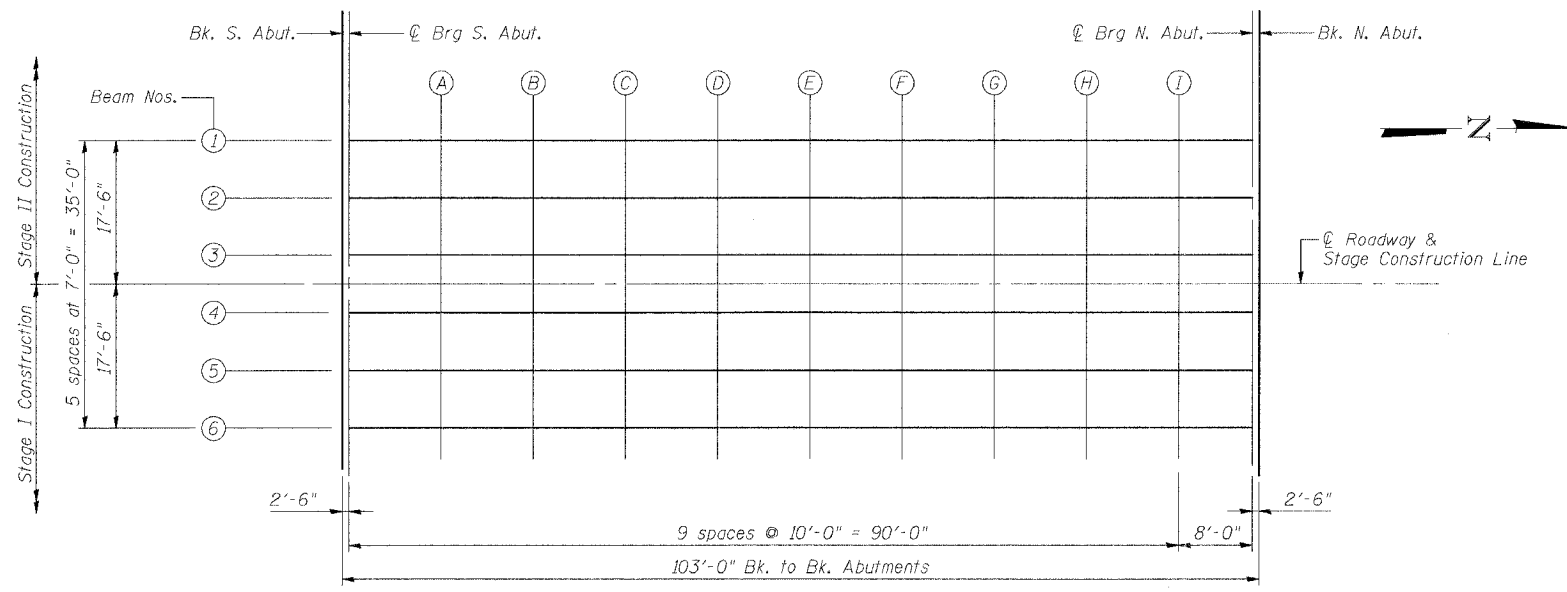
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	138+14.56	3.5	520.981	520.981
Cl. Brg. S. Abut.	138+17.06	3.5	520.946	520.946
A	138+27.06	3.5	520.806	520.831
B	138+37.06	3.5	520.666	520.711
C	138+47.06	3.5	520.526	520.585
D	138+57.06	3.5	520.386	520.455
E	138+67.06	3.5	520.246	520.319
F	138+77.06	3.5	520.106	520.173
G	138+87.06	3.5	519.966	520.023
H	138+97.06	3.5	519.826	519.867
I	139+07.06	3.5	519.686	519.706
Cl. Brg. N. Abut.	139+15.06	3.5	519.574	519.574
Bk. of N. Abut.	139+17.56	3.5	519.539	519.539

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	138+14.56	10.5	520.872	520.872
Cl. Brg. S. Abut.	138+17.06	10.5	520.837	520.837
A	138+27.06	10.5	520.697	520.722
B	138+37.06	10.5	520.557	520.602
C	138+47.06	10.5	520.417	520.476
D	138+57.06	10.5	520.277	520.346
E	138+67.06	10.5	520.137	520.210
F	138+77.06	10.5	519.997	520.064
G	138+87.06	10.5	519.857	519.914
H	138+97.06	10.5	519.717	519.758
I	139+07.06	10.5	519.577	519.597
Cl. Brg. N. Abut.	139+15.06	10.5	519.465	519.465
Bk. of N. Abut.	139+17.56	10.5	519.430	519.430

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	138+14.56	17.5	520.734	520.734
Cl. Brg. S. Abut.	138+17.06	17.5	520.699	520.699
A	138+27.06	17.5	520.559	520.584
B	138+37.06	17.5	520.419	520.464
C	138+47.06	17.5	520.279	520.338
D	138+57.06	17.5	520.139	520.208
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F	138+77.06	17.5	519.859	519.926
G	138+87.06	17.5	519.719	519.776
H	138+97.06	17.5	519.579	519.620
I	139+07.06	17.5	519.439	519.459
Cl. Brg. N. Abut.	139+15.06	17.5	519.327	519.327
Bk. of N. Abut.	139+17.56	17.5	519.292	519.292



PLAN

PBT-E 9-1-03

ILLINOIS DEPARTMENT OF TRANSPORTATION
TOP OF SLAB ELEVATIONS
FAP RTE 609 (IL. 163) PRAIRIE DUPONT CR.
SECTION 76-3BR
ST. CLAIR COUNTY
STA. 138+66.06
S.N. 082-0305

REVISIONS	
NAME	DATE

SCALE: VERT. _____
HORIZ. _____
DATE: 7/26/04

DRAWN BY: LANDREY
DESIGNED BY: WATKINS
CHECKED BY: SANFORD

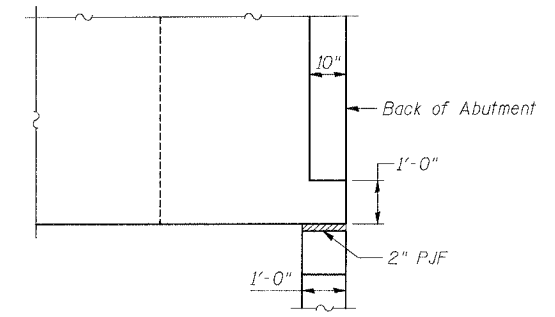
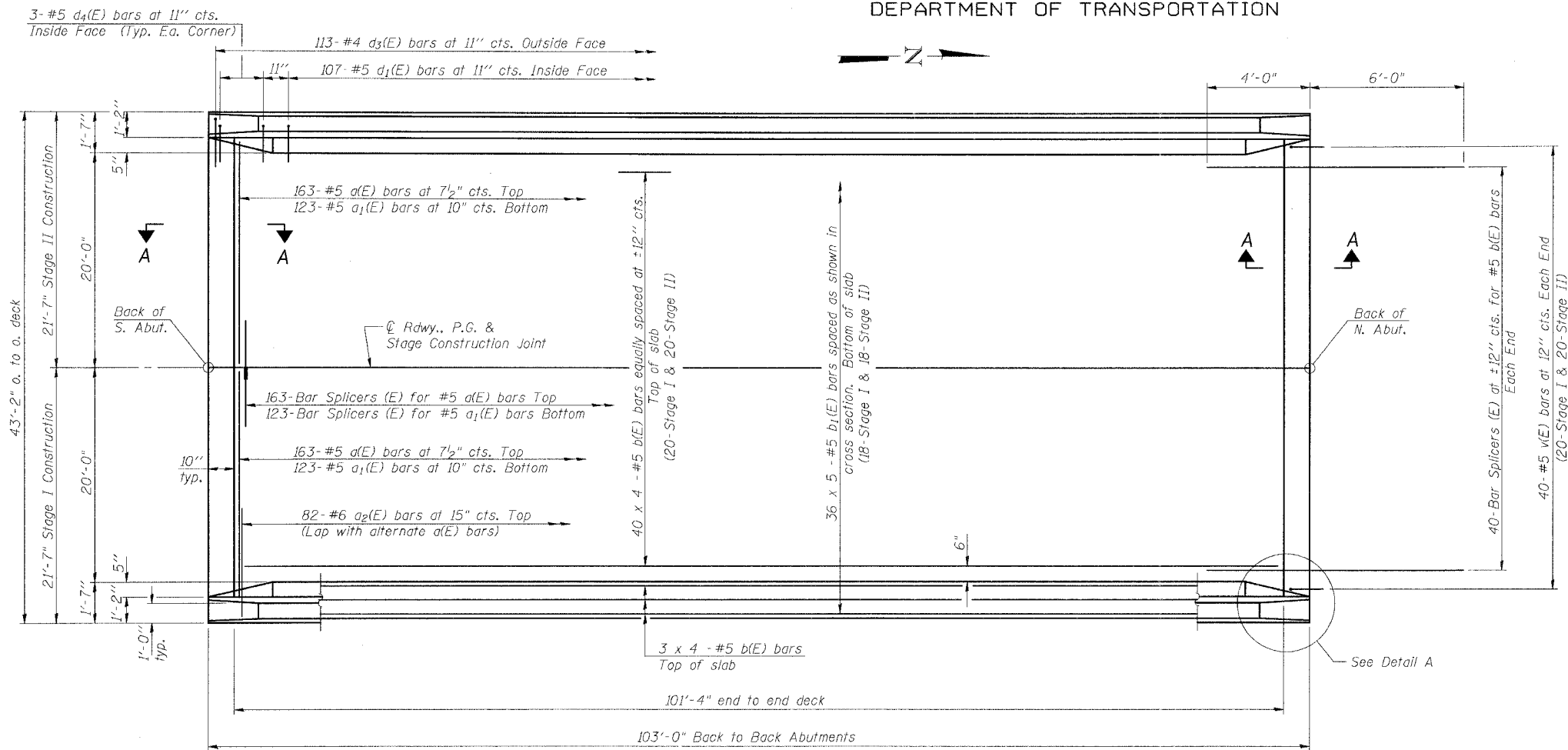
GREENE & BRADFORD, INC.
OF SPRINGFIELD
REGISTERED PROFESSIONAL ENGINEERS
ILLINOIS LICENSE NO. 082-0305
PROJECT 02076
COMPUTER FILE NO. SMO820305.TOS
4/28/05-MML

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PLOT DATE: 6/22/2005
PLOT TIME: 10:36:01 AM
OPERATOR: michelle

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 609	*	ST. CLAIR	46	25
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
			76-3BR	

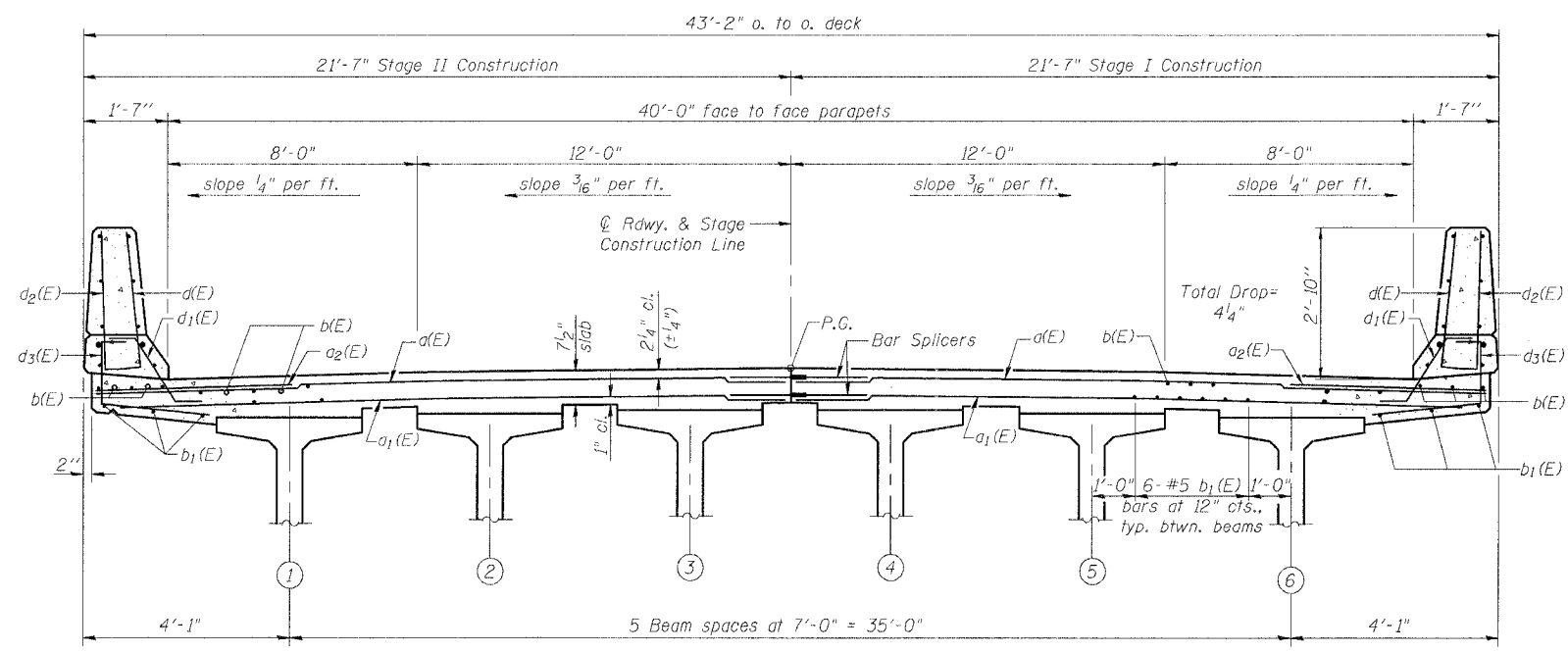
SHEET NO. 5
15 SHEETS
76268



DETAIL A
(Parapet and approach not included)
(Similar at all four corners)

PLAN

MIN. BAR LAPS
#5 Bar = 1'-8"



CROSS SECTION
(Looking North)

Notes:
See sheet 6 of 15 for superstructure details and Bill of Material.
For Section A-A and diaphragm details see sheet 7 of 15.
Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
See sheet 6 of 15 for parapet reinforcement.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE
FAP RTE 609 (IL 163) PRAIRIE DUPONT CR.
SECTION 76-3BR
ST. CLAIR COUNTY
STA. 138+66.06
S.N. 082-0305

SCALE: VERT. DATE: 7/26/04
DRAWN BY: LANDREY
DESIGNED BY: WATKINS
CHECKED BY: SANFORD

COMPUTER FILE NO. SN0820305.SPX
PROJECT 02076
4/28/05-MML

GREENE & BRADFORD, INC.
OF SPRINGFIELD

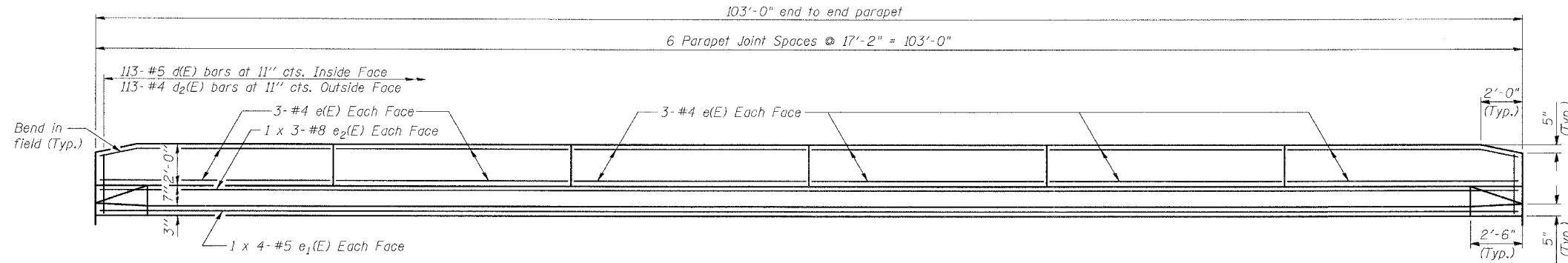
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PLOT LINE = 0.55, 0.55, 0.55
OPERATOR = michelle

PBT-1-0 9-1-03

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 609	*	ST. CLAIR	46	26
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

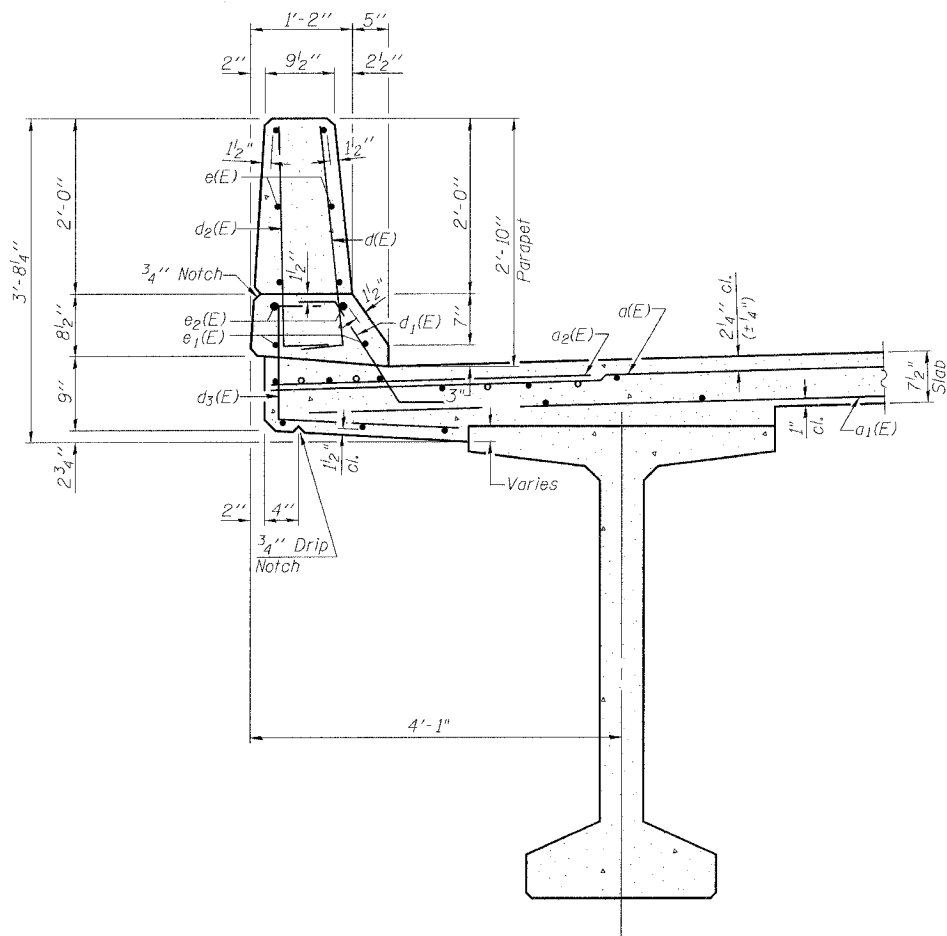
76-3BR
15 SHEETS
76268



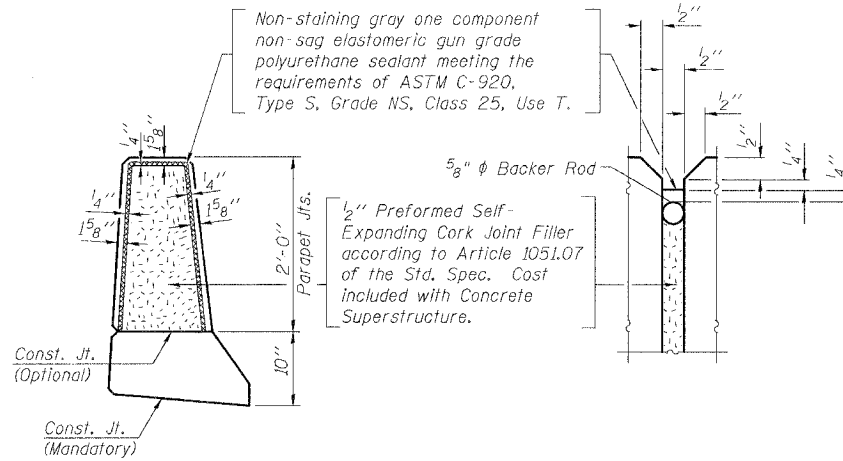
INSIDE ELEVATION OF PARAPET

MIN. BAR LAP

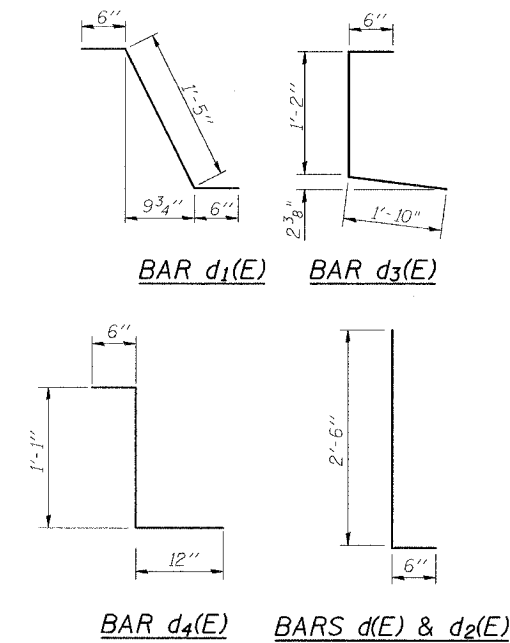
#5 bars = 1'-8"
#8 bars = 3'-5"



SECTION THRU PARAPET



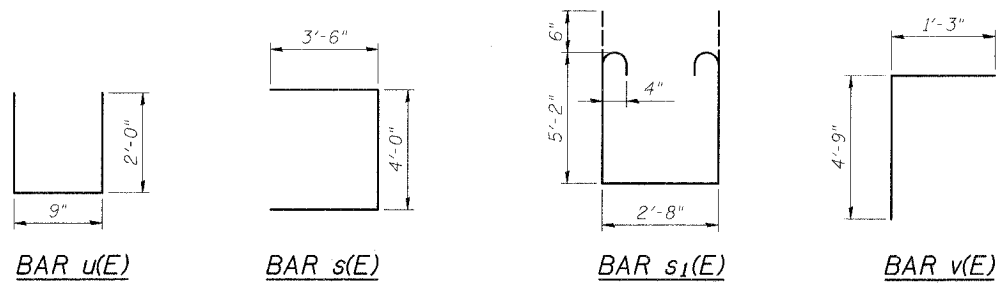
PARAPET JOINT DETAILS



SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	326	#5	21'-2"	—
a1(E)	246	#5	20'-9"	—
a2(E)	164	#6	6'-6"	—
b(E)	184	#5	26'-7"	—
b1(E)	180	#5	21'-7"	—
d(E)	226	#5	3'-0"	┘
d1(E)	214	#5	2'-5"	┘
d2(E)	226	#4	3'-0"	┘
d3(E)	226	#4	3'-6"	┘
d4(E)	12	#5	2'-7"	┘
e(E)	72	#4	16'-11"	—
e1(E)	16	#5	27'-0"	—
e2(E)	12	#8	36'-7"	—
m(E)	32	#6	21'-2"	—
m1(E)	36	#6	8'-11"	—
m2(E)	16	#6	5'-4"	—
m3(E)	8	#6	2'-11"	—
m4(E)	8	#6	2'-7"	—
s(E)	72	#5	11'-0"	┘
s1(E)	52	#4	14'-0"	┘
u(E)	84	#5	4'-9"	┘
v(E)	80	#5	6'-0"	┘
Reinforcement Bars, Epoxy Coated			Lbs.	31,900
Concrete Superstructure			Cu. Yds.	202.3

Reinforcement bars designated (E) shall be epoxy coated.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE DETAILS
FAP RTE 609 (IL 163) PRAIRIE DUPONT CR.
SECTION 76-3BR
ST. CLAIR COUNTY
STA. 138+66.06
S.N. 082-0305

SCALE: VERT. DRAWN BY: LANDREY
HORIZ. DESIGNED BY: WATKINS
DATE: 7/26/04 CHECKED BY: SANFORD

GREENE & BRADFORD, INC.
CONSULTING ENGINEERS
OF SPRINGFIELD
COMPUTER FILE NO.
SN0820305_SD
PROJECT 02076
4/28/05-MML

FILE NAME = J:\02076\civ\wings\sm082-0305\van0820305_sd.dgn
PLOT SCALE = 1/8"=1'-0"
PLOT LINE = 0.555/7 AM
OPERATOR = MICHELEBI

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 8
FAP 609	*	ST. CLAIR	46	28	15 SHEETS
FED. ROAD DIST. NO.	ILLINOIS	FED. ROAD PROJECT	76268		

* 76-3BR

INTERIOR BEAM MOMENT TABLE	
0.5 Span	
Strand Pattern 30-A	
I	(in ⁴) 392,638
I'	(in ⁴) 738,398
S _b	(in ³) 12,224
S _b '	(in ³) 16,052
S _t	(in ³) 12,715
S _t '	(in ³) 43,435
Q	(k/')
M _D	(k)
s _D	(k/')
M _{S_D}	(k)
M _L	(k)
M (Imp)	(k)

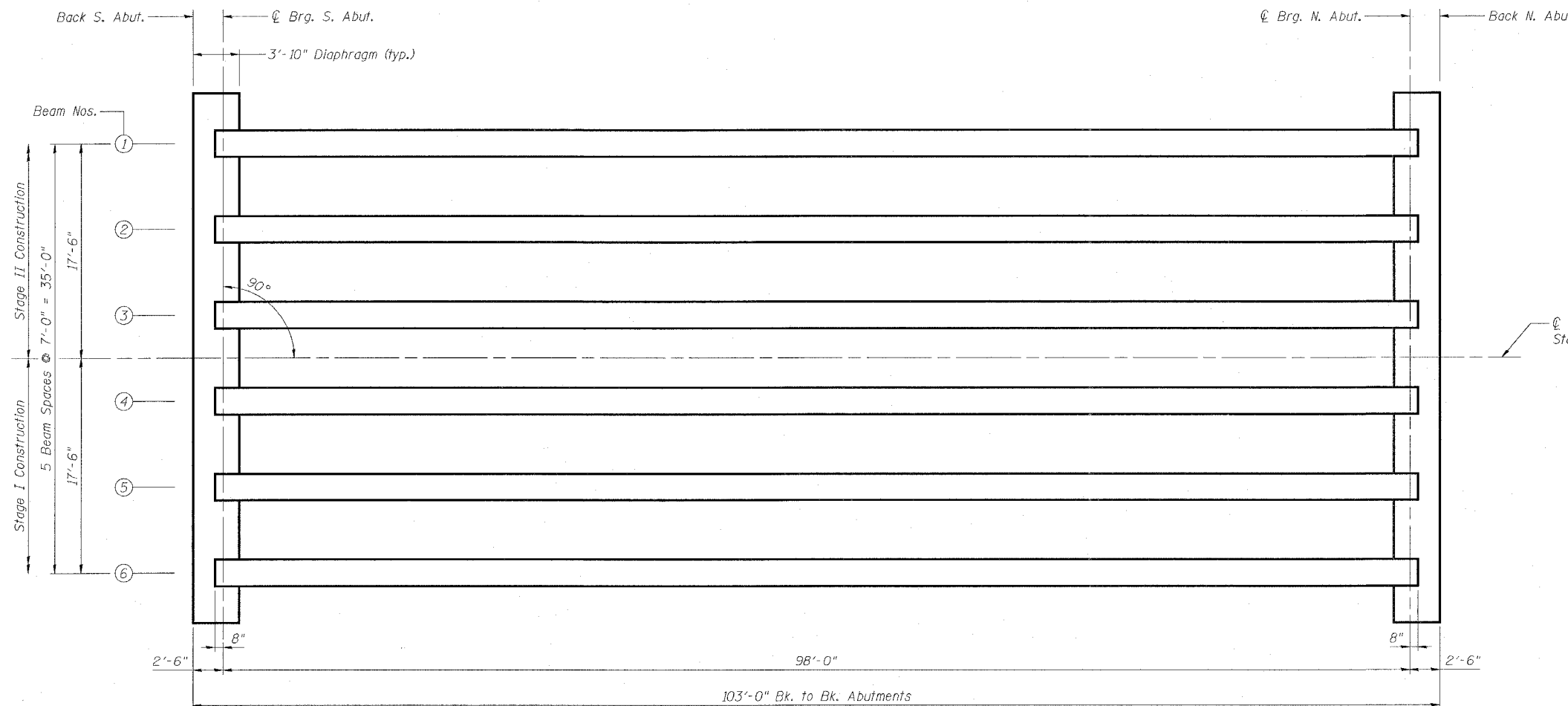
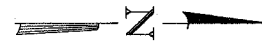
INTERIOR BEAM REACTION TABLE	
Abut.	
R _D	(k) 113.9
R _{S_D} *	(k) 24.8
R _L	(k) 41.9
Imp.	(k) 9.4
R (Total)	(k) 190.0

* The dead load reaction includes an additional 3 kips/ft to account for the dead load of the approach pavement.

I and I' are the moment of inertia and composite moment of inertia of the beam section.

S_b and S_b' are the non-composite and composite section modulus for the bottom fiber of the prestressed beam.

S_t and S_t' are the non-composite and composite section modulus for the top fiber of the prestressed beam.



FRAMING PLAN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FRAMING PLAN
FAP RTE 609 (IL. 163) PRAIRIE DUPONT CR.
SECTION 76-3BR
ST. CLAIR COUNTY
STA. 138+66.06
S.N. 082-0305

SCALE: VERT. _____
SCALE: HORIZ. _____
DATE: 7/26/04

DRAWN BY: LANDREY
DESIGNED BY: WATKINS
CHECKED BY: SANFORD

COMPUTER FILE NO. SN0820305_FRP
PROJECT 02076
7/7/05-MML

GREENE & BRADFORD, INC.
OF SPRINGFIELD
REGISTERED PROFESSIONAL ENGINEERS
ILLINOIS LICENSE NO. 021-0000000-0000
PROFESSIONAL DESIGN FIRM NO. 021-0000000-0000
1075 W. 10TH ST., SPRINGFIELD, ILL. 62761-1075

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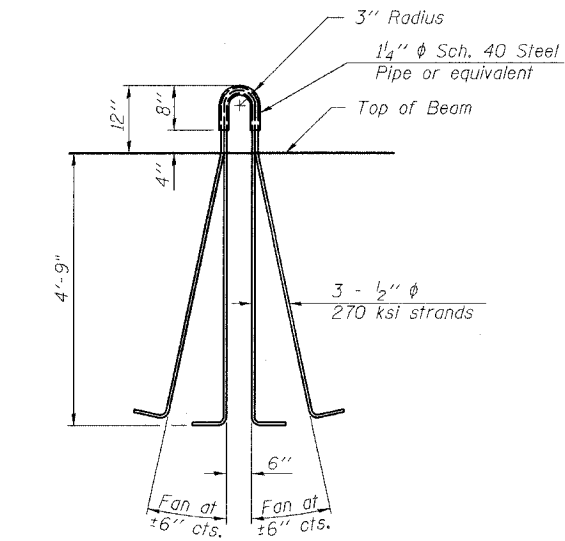
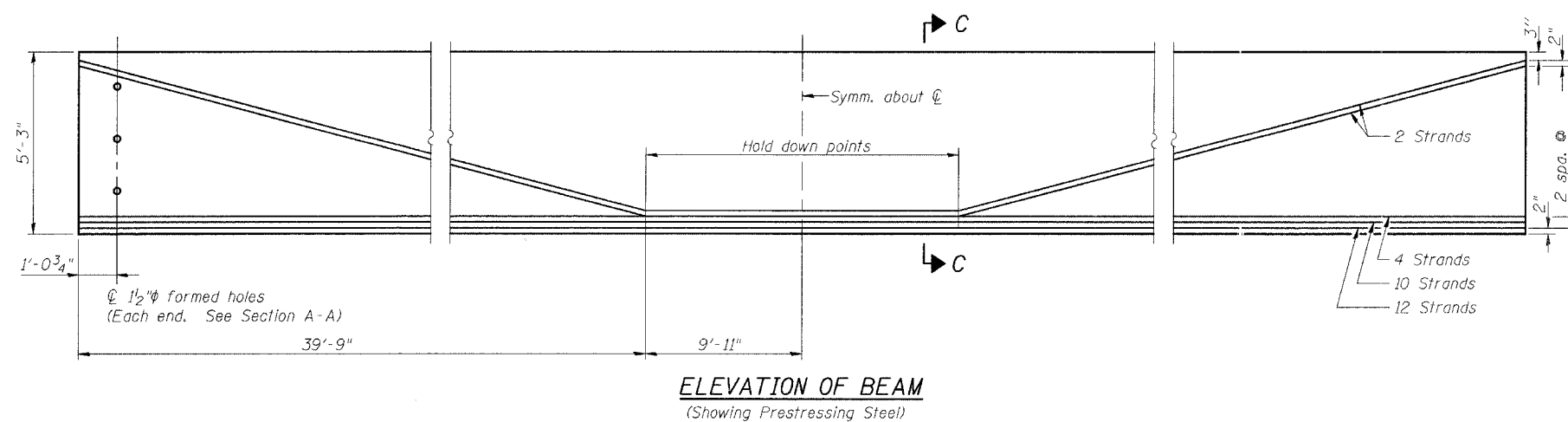
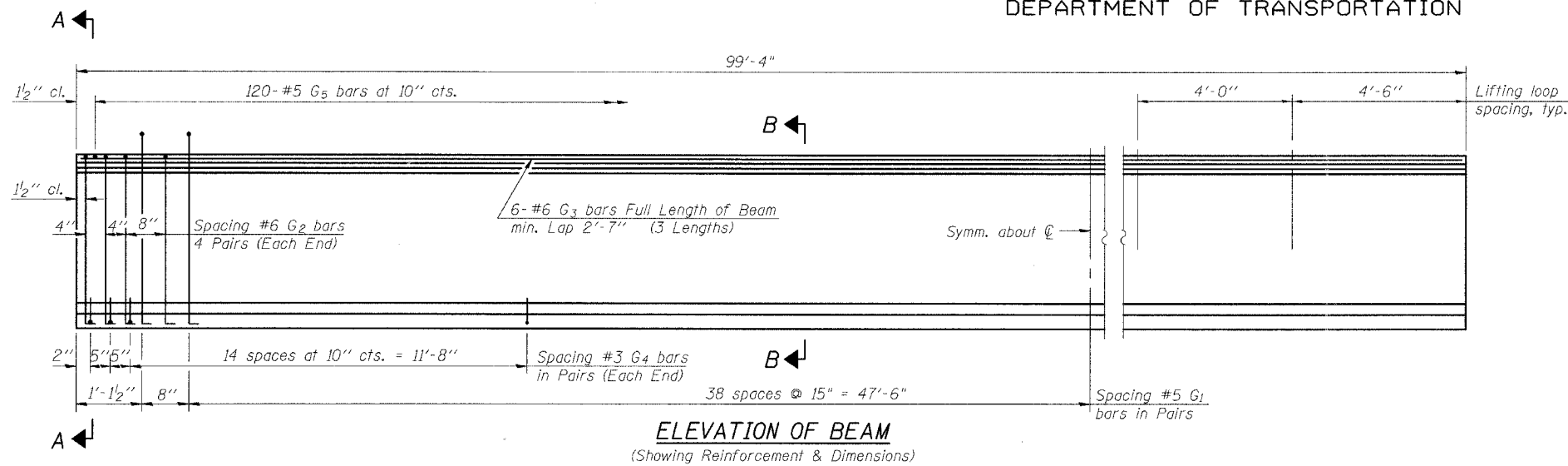
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.
FAP 609	*	ST. CLAIR	46	29
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
				76268

SHEET NO. 9

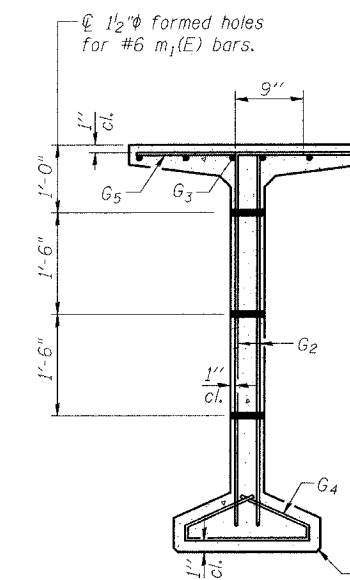
15 SHEETS

76268

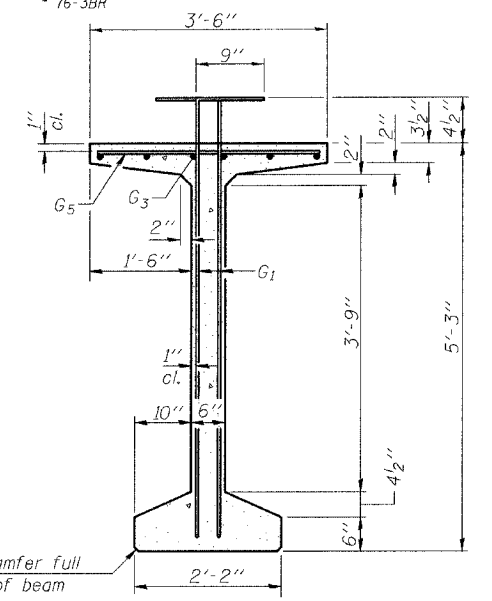


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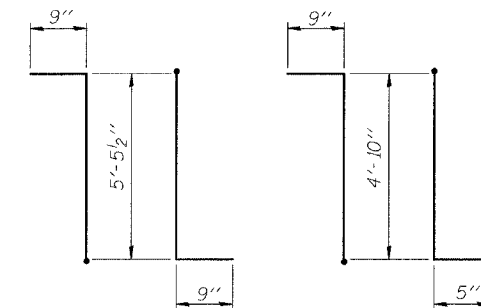
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SECTION A-A

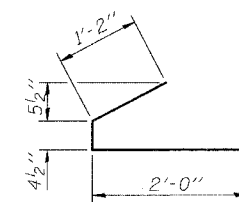


SECTION B-B

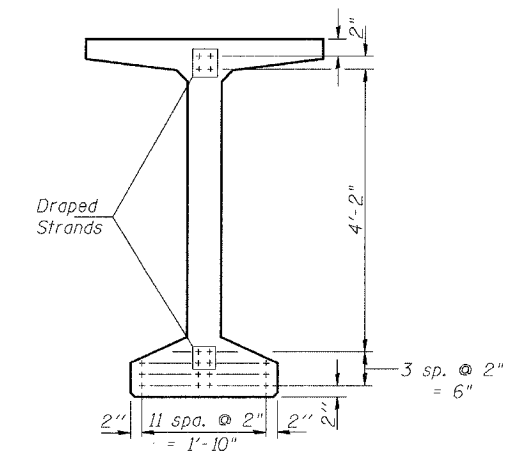


BAR G1

BAR G2



BAR G4



SECTION C-C

*BAR LIST

Bar	No.	Size	Length	Shape
G1	160	#5	6'-11 1/2"	7L
G2	16	#6	6'-0"	7L
G3	18	#6	35'-0"	—
G4	68	#3	3'-6 1/2"	—
G5	120	#5	3'-4"	—

*For one beam only.

NOTES

- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.
- The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- Non-prestressing steel shall conform to AASHTO designation M-31 or M 322, Grade 60.
- A minimum 2 1/2" ϕ lifting pin shall be used to engage the lifting loops during handling.
- Required release strength, f'_{ci} , shall be 5000 psi.
- Reinforcement bars designated (E) shall be epoxy coated.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams, 63"	Ft.	596

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

BEAM DETAILS

FAP RTE 609 (IL. 163) PRAIRIE DU PONT CR.
SECTION 76-3BR
ST. CLAIR COUNTY
STA. 138+66.06
S.N. 082-0305

SCALE: VERT. HORIZ. DATE: 7/26/04
DRAWN BY: LANDREY
DESIGNED BY: WATKINS
CHECKED BY: SANFORD

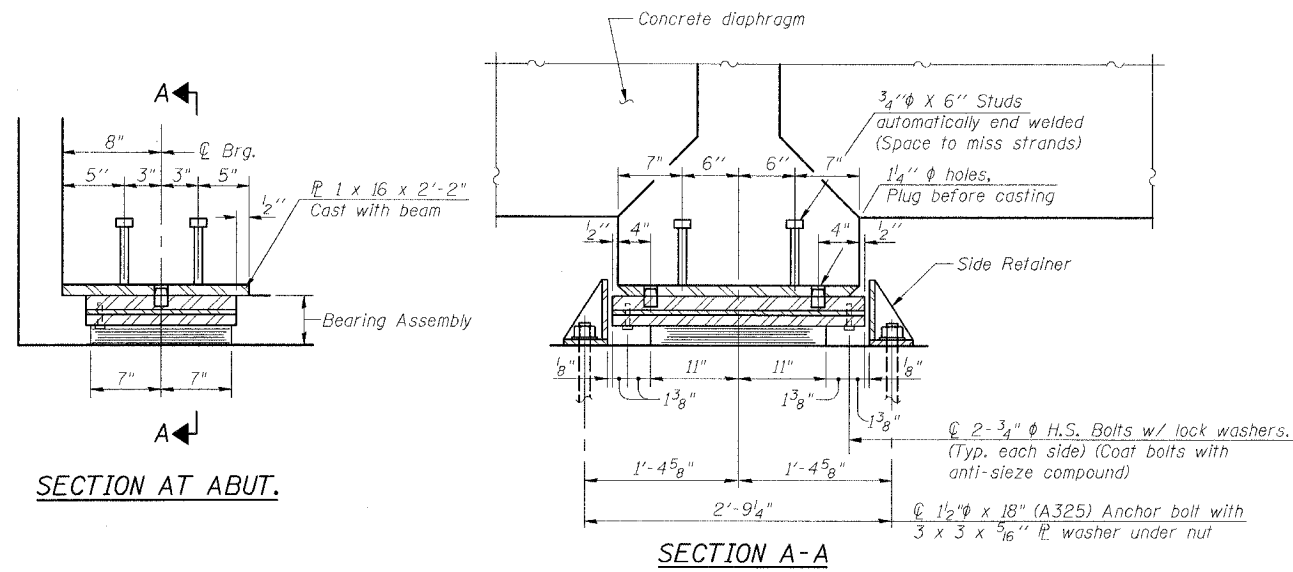
GREENE & BRADFORD, INC. CONSULTING ENGINEERS 1100 N. WASHINGTON ST. SPRINGFIELD, ILLINOIS 62761 PROFESSIONAL ENGINEERS & ARCHITECTS CORPORATION	COMPUTER FILE NO. SN0820305.BMD PROJECT 02076 4/28/05-MML
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PLOT TIME = 10:51 AM
OPERATOR = micrael

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 10
FAP 609	*	ST. CLAIR	46	30	15 SHEETS
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-	76268		

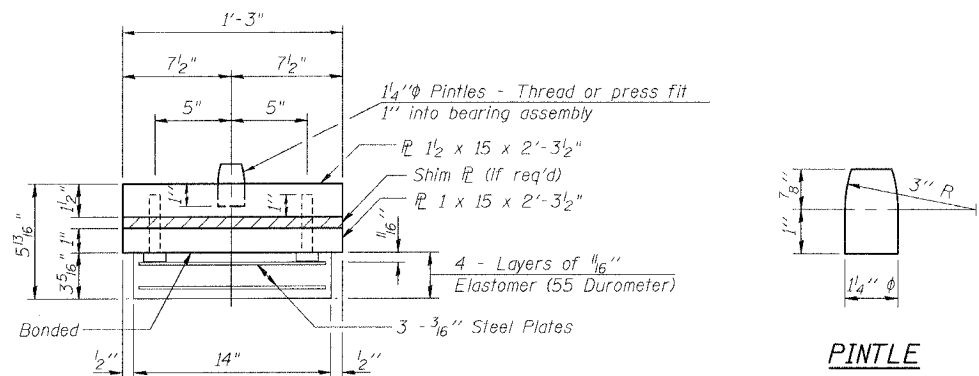
* 76-3BR



SECTION AT ABUT.

SECTION A-A

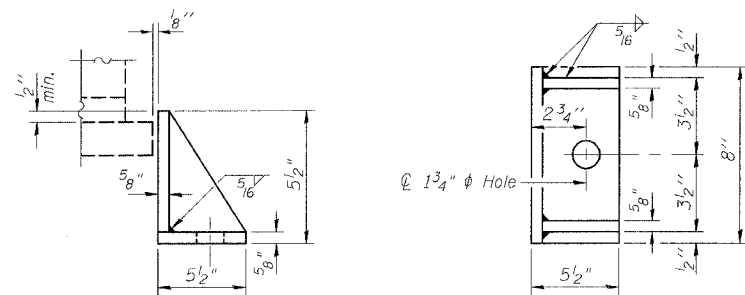
TYPE I ELASTOMERIC EXP. BRG.
(South Abutment)



BEARING ASSEMBLY

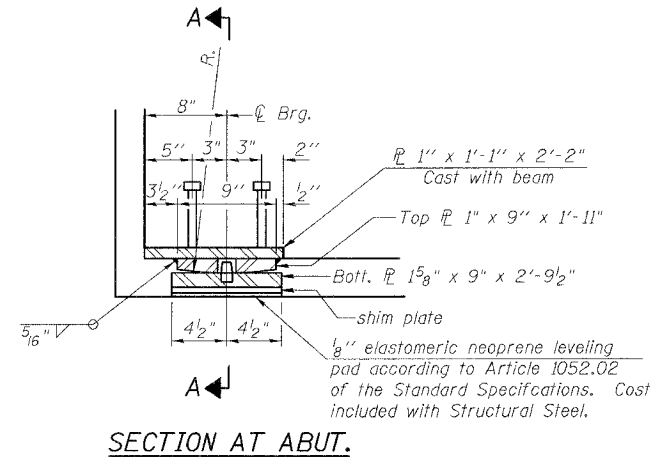
Note: Shim plates shall not be placed under Bearing Assembly.

PINTLE

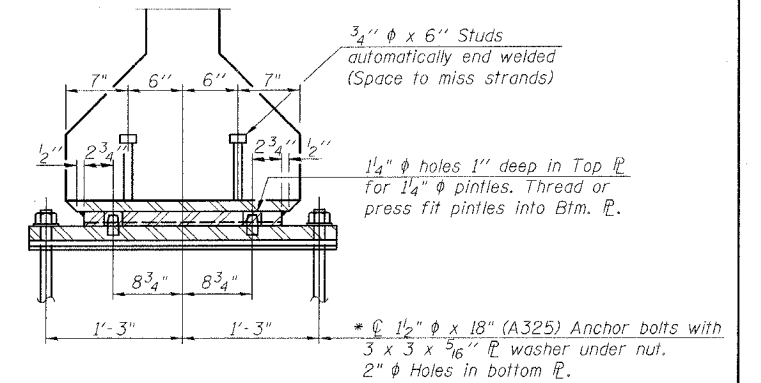


SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

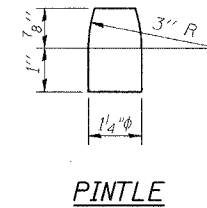
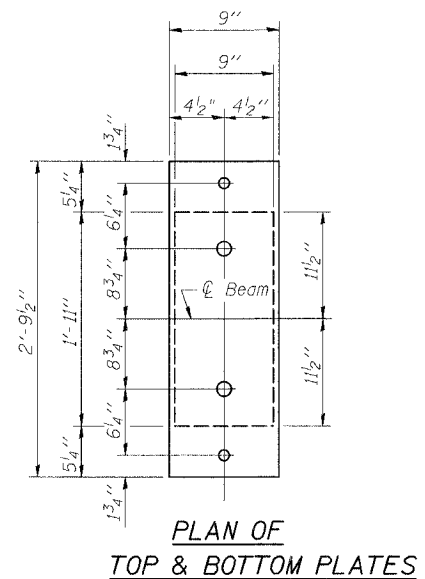


FIXED BEARING
(North Abutment)



SECTION A-A

* Anchor bolts may be built into the masonry or drilled and grouted in place after all beams have been erected. See sheet 13 of 15 for anchor bolt installation.



PINTLE

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	6

ILLINOIS DEPARTMENT OF TRANSPORTATION
BEARING DETAILS
FAP RTE 609 (IL. 163) PRAIRIE DUPONT CR.
SECTION 76-3BR
ST. CLAIR COUNTY
STA. 138+66.06
S.N. 082-0305

REVISIONS	
NAME	DATE

SCALE: VERT. HORIZ. DATE: 7/26/04

DRAWN BY: LANDREY
DESIGNED BY: WATKINS
CHECKED BY: SANFORD

COMPUTER FILE NO. SN0820305.BRG
PROJECT 02076
4/28/05-MML

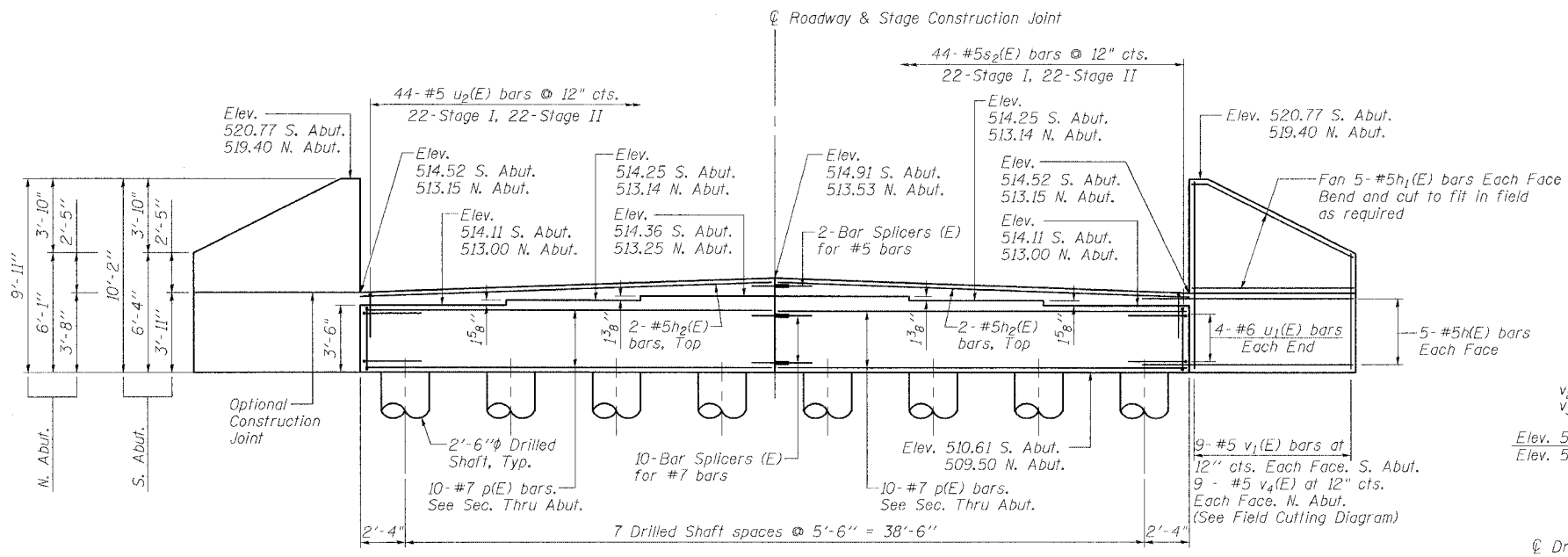
GREENE & BRADFORD, INC.
OF SPRINGFIELD
REGISTERED PROFESSIONAL ENGINEERS
ILLINOIS LICENSE NO. 021-0000001
MEMBER AMERICAN SOCIETY OF CIVIL ENGINEERS
MEMBER AMERICAN INSTITUTE OF STEEL CONSTRUCTION
MEMBER STRUCTURAL STEEL EDUCATION FOUNDATION

PI-2E-1 9-1-03

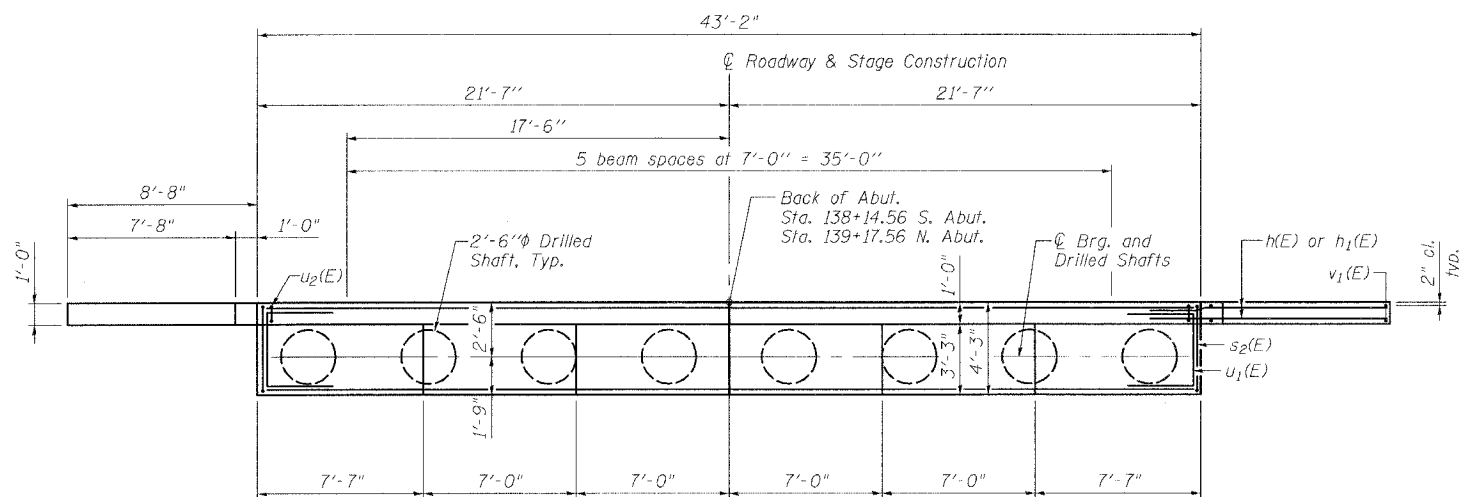
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

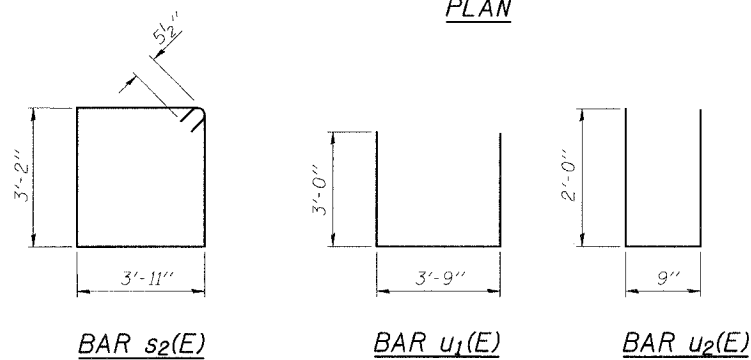
ROUTE NO.	SECTION	COUNTY	FELT'S SHEETS	SHEET NO.	SHEET NO. 11
FAP 609	*	ST. CLAIR	46	31	15 SHEETS
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	76268		
* 76-3BR					



ELEVATION



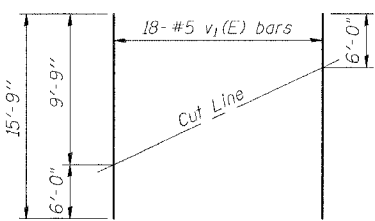
PLAN



BAR s₂(E)

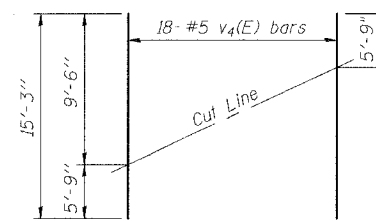
BAR u₁(E)

BAR u₂(E)



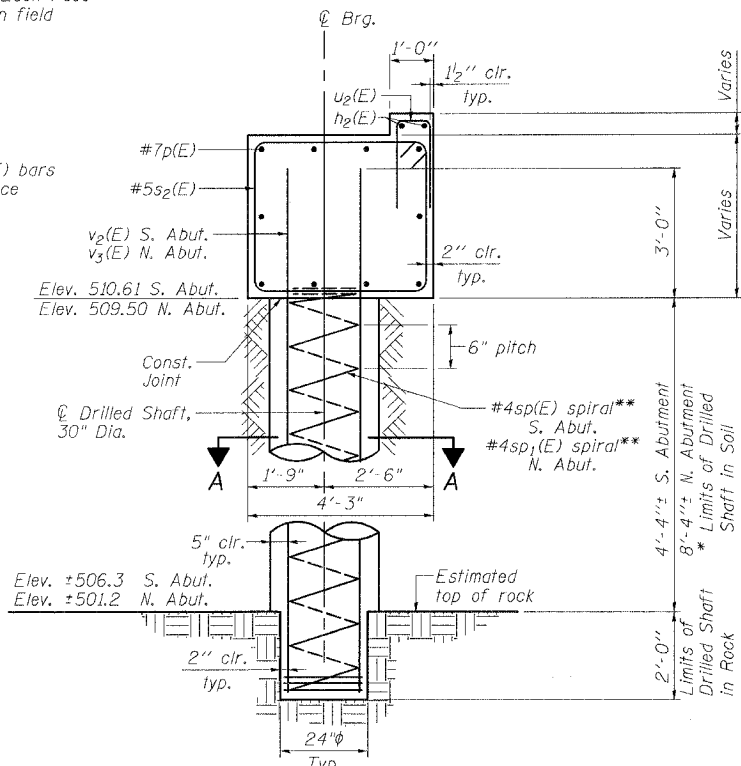
FIELD CUTTING DIAGRAM

Order v₁(E) full length. Cut as shown and use remainder of bars in opposite face.

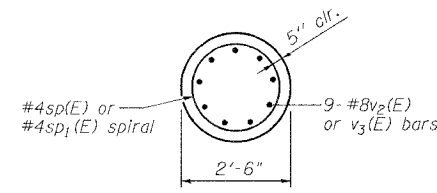


FIELD CUTTING DIAGRAM

Order v₄(E) full length. Cut as shown and use remainder of bars in opposite face.



SECTION THRU ABUTMENT



SECTION A-A

TWO ABUTMENTS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	40	#5	10'-10"	—
h ₁ (E)	40	#5	9'-2"	—
h ₂ (E)	8	#5	21'-3"	—
p(E)	40	#7	21'-3"	—
s ₂ (E)	88	#5	15'-1"	□
sp(E)	8	#4	6'-4"	⋈
sp ₁ (E)	8	#4	10'-4"	⋈
u ₁ (E)	16	#6	9'-9"	—
u ₂ (E)	88	#5	4'-9"	—
v ₁ (E)	18	#5	15'-9"	—
v ₂ (E)	72	#8	9'-2"	—
v ₃ (E)	72	#8	13'-2"	—
v ₄ (E)	18	#5	15'-3"	—
Concrete Structures			Cu. Yd.	61.3
Reinforcement Bars, Epoxy Coated			Pound	10,730
Structure Excavation			Cu. Yd.	626
Drilled Shaft in Soil, 30" Dia.			Foot	100.9
Drilled Shaft in Rock, 24" Dia.			Foot	32.0

Notes: * The quantities and detailing are based on the estimated elevations shown on the plans. The actual elevations may differ at each shaft and corresponding adjustments shall be made to the drilled shaft and reinforcement quantities and payment limits.
** Provide 1/2 extra turns top and bottom of each drilled shaft. Extend spiral 2" into abutment cap. Provide min. 4-#4 spacers or equivalent.
*** Length is height of spiral.
Reinforcement bars designated (E) shall be epoxy coated.
Min. lap for spirals = 1 1/2 turns.

ILLINOIS DEPARTMENT OF TRANSPORTATION

ABUTMENTS

FAP RTE 609 (IL 163) PRAIRIE DU PONT CR.
SECTION 76-3BR
ST. CLAIR COUNTY
STA. 138+66.06
S.N. 082-0305

SCALE: VERT. HORIZ. DATE: 7/26/04	DRAWN BY: LANDREY DESIGNED BY: WATKINS CHECKED BY: SANFORD	COMPUTER FILE NO. SN0820305_AB PROJECT 02076 4/28/05-MML
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REVISIONS	
NAME	DATE

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OPERATOR = MICHELLE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 609	*	ST. CLAIR	46	32
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT*		
			76268	

* 76-3BR

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
- ② Minimum *Pull-out Strength (Tension in kips) = $1.25 \times f_{s_{allow}} \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 $f_{s_{allow}}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
 A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

The diameter of this part is the same as the diameter of the bar spliced.

ROLLED THREAD DOWEL BAR



** ONE PIECE

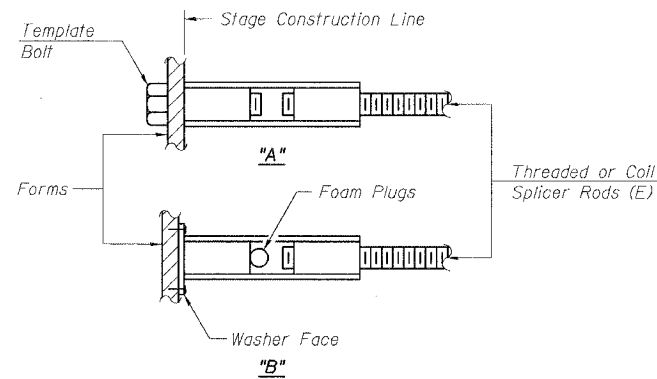
Wire Connector



WELDED SECTIONS

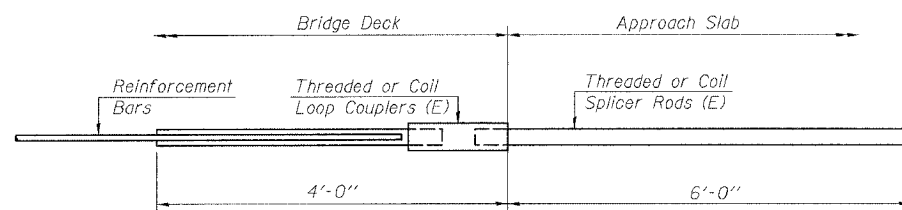
BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



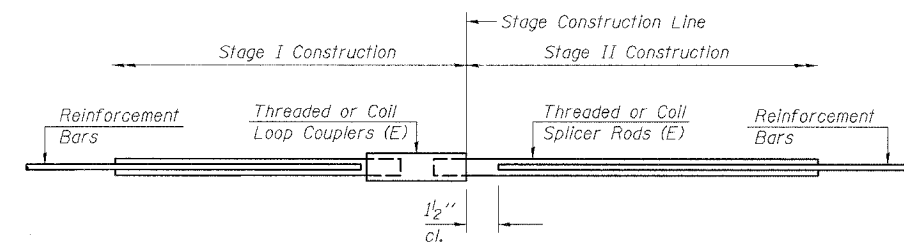
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar	
Min. Capacity =	23.0 kips - tension
Min. Pull-out Strength =	9.2 kips - tension
No. Required =	80



STANDARD

Bar Size	No. Assemblies Required	Location
#5	286	Deck
#6	26	Diaphragms
#7	20	Abutments
#5	4	Abutments

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BAR SPLICER ASSEMBLY DETAILS
FAP RTE 609 (IL. 163) PRAIRIE DUPONT CR.
SECTION 76-3BR
ST. CLAIR COUNTY
STA. 138+66.06
S.N. 082-0305

SCALE: VERT. DRAWN BY: LANDREY
HORIZ. DESIGNED BY: WATKINS
DATE: 7/26/04 CHECKED BY: SANFORD

GREENE & BRADFORD, INC.
CONSULTING ENGINEERS
300 WEST WASHINGTON ST., SUITE 200
CHICAGO, ILL. 60601
TEL: 312.467.1200 FAX: 312.467.1201
WWW.GREENE-AND-BRADFORD.COM

COMPUTER FILE NO.
SNO820305.SPL
PROJECT 02076
4/28/05-MML

BSD-1 9-01-03

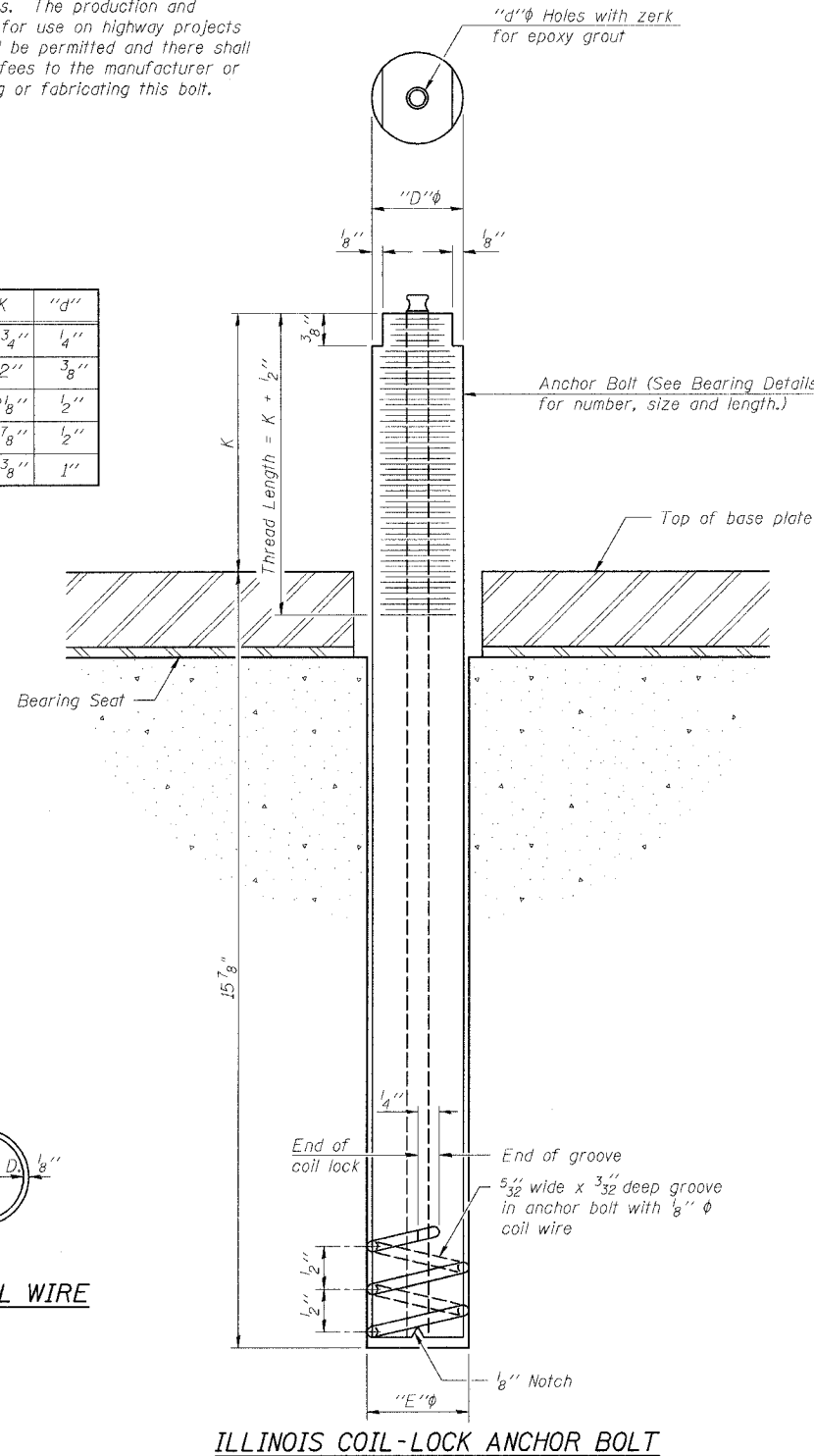
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 13 15 SHEETS 76268
FAP 609	*	ST. CLAIR	46	33	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	* 76-3BR		

The Illinois Coil-Lock Anchor Bolt is a proprietary item which is the property of the Illinois Department of Transportation. Use, reproduction or disclosure without express written permission is prohibited and protected under Federal copyright laws. The production and the fabrication of this bolt for use on highway projects in the State of Illinois shall be permitted and there shall be no incurred charges or fees to the manufacturer or the fabricator for producing or fabricating this bolt.

D	E	H	K	"d"
1"	1 1/8"	1 3/16"	1 3/4"	1/4"
1 1/4"	1 3/8"	1 1/6"	2"	3/8"
1 1/2"	1 5/8"	1 5/16"	2 1/8"	1/2"
2"	2 1/8"	1 13/16"	2 7/8"	1/2"
2 1/2"	2 5/8"	2 5/16"	3 3/8"	1"



PLAN-COIL WIRE

ILLINOIS COIL-LOCK ANCHOR BOLT

MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A 519, Grade 1026, CW and supplied with hexagonal nuts and cut washers.
The coil wire shall be made of any suitable soft steel wire.
The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed.
The epoxy grout shall be a two-component, epoxy resin bonding system conforming to ASTM C 881, Type I, Grade 1 and of a Class suitable for the temperature at installation.

INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT

1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.
2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

ALTERNATE ANCHOR BOLTS

The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures.

- The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:
1. A threaded rod stud with nut and washer of the type specified.
 2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

Location	Type
All	A325

ASTM F 1554 Grade 105, ASTM A 449 and AASHTO M 314 Grade 105 anchor bolts may be substituted for the anchor bolts shown above.

GENERAL NOTES

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or according to the manufacturer's recommendation after beams or girders have been erected and adjusted.
Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming.
The anchor bolts, furnished and installed including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for Furnishing and Erecting Structural Steel.

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PLOT DATE = 10/26/05
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OPERATOR = michelle

ABB-1 4-30-99

ILLINOIS DEPARTMENT OF TRANSPORTATION
ANCHOR BOLT DETAILS FOR BEARINGS
FAP RTE 609 (IL. 163) PRAIRIE DU PONT CR.
SECTION 76-3BR
ST. CLAIR COUNTY
STA. 138+66.06
S.N. 082-0305

REVISIONS	
NAME	DATE

SCALE: VERT. DRAWN BY: LANDREY
HORIZ. DESIGNED BY: WATKINS
DATE: 7/26/04 CHECKED BY: SANFORD

GREENE & BRADFORD, INC.
OF SPRINGFIELD
REGISTERED PROFESSIONAL ENGINEERS
ILLINOIS LICENSE NO. 02076
PROFESSIONAL ENGINEERING CORPORATION
1001 N. WASHINGTON ST., SUITE 100, SPRINGFIELD, ILL. 62762
(217) 798-4227 FAX (217) 798-4228
COMPUTER FILE NO. SN0820305_ABD
PROJECT 02076
4/28/05-MML

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING B-1 ROCK CORE

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO. 14
FAP 609	*	ST. CLAIR	46	34
FED. ROAD DIST. NO.		ALLIANCE	FED. AID PROJECT	
76-3BR			76268	

BORING B-1



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2

Date 10/30/00

ROUTE FAP 609 DESCRIPTION IL 163 over Prairie du Pont Creek near Millstadt LOGGED BY Larry Ford

SECTION 76-3BR LOCATION NE 14, SEC. 33, TWP. 1N, RNG. 9W, 3 PM

COUNTY St. Clair DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 082-0134 (Ex.)
Station 138+66
BORING NO. #1 North Abutment
Station 139+26.3
Offset 12.50ft Lr
Ground Surface Elev. 519.0 ft

Surface Water Elev. 498.3 ft
Stream Bed Elev. 497.8 ft
Groundwater Elev. _____ ft
First Encounter _____ ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

DEPTH (ft)	LOG	DR	BL	SC	SP	ST	SO	SI	SL	SM	SN	SP	ST	SO	SI	SL	SM	SN	SP	ST	SO	SI	SL	SM	SN
0																									
5																									
6																									
10																									
15																									
20																									
25																									
30																									
35																									
40																									
45																									
50																									
55																									
60																									
65																									
70																									
75																									
80																									
85																									
90																									
95																									
100																									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM D-2936)

BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

ROCK CORE LOG

Page 2 of 2

Date 10/30/00

ROUTE FAP 609 DESCRIPTION IL 163 over Prairie du Pont Creek near Millstadt LOGGED BY Larry Ford

SECTION 76-3BR LOCATION NE 14, SEC. 33, TWP. 1N, RNG. 9W, 3 PM

COUNTY St. Clair CORING METHOD

STRUCT. NO. 082-0134 (Ex.)
Station 138+66
BORING NO. #1 North Abutment
Station 139+26.3
Offset 12.50ft Lr
Ground Surface Elev. 519.0 ft

CORING BARREL TYPE & SIZE _____
Core Diameter _____ in
Top of Rock Elev. 501.00 ft
Begin Core Elev. 498.00 ft

DEPTH (ft)	LOG	DR	BL	SC	SP	ST	SO	SI	SL	SM	SN	SP	ST	SO	SI	SL	SM	SN	SP	ST	SO	SI	SL	SM	SN
0																									
5																									
10																									
15																									
20																									
25																									
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60																									
65																									
70																									
75																									
80																									
85																									
90																									
95																									
100																									

Color pictures of the cores _____
Cores will be stored for examination until _____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

FILE NAME = J:\02076\drawings\082-0305\0820305_bor1.cgm
PLOT DATE = 02/25/05
PLOT TIME = 10:35:46 AM
OPERATOR = michelle

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BORING LOGS
FAP RTE 609 (IL 163) PRAIRIE DU PONT CR.
SECTION 76-3BR
ST. CLAIR COUNTY
STA. 138+66.06
S.N. 082-0305

SCALE: VERT. _____
HORIZ. _____
DATE: 7/26/04

DRAWN BY: LANDREY
DESIGNED BY: WATKINS
CHECKED BY: SANFORD

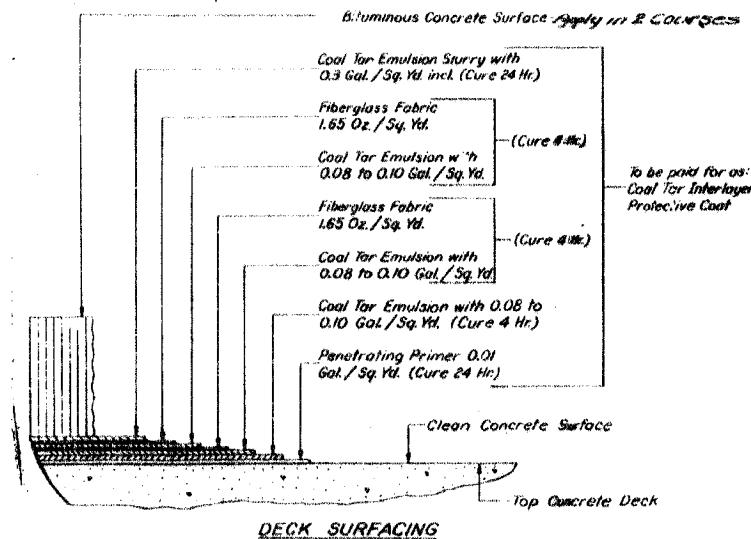
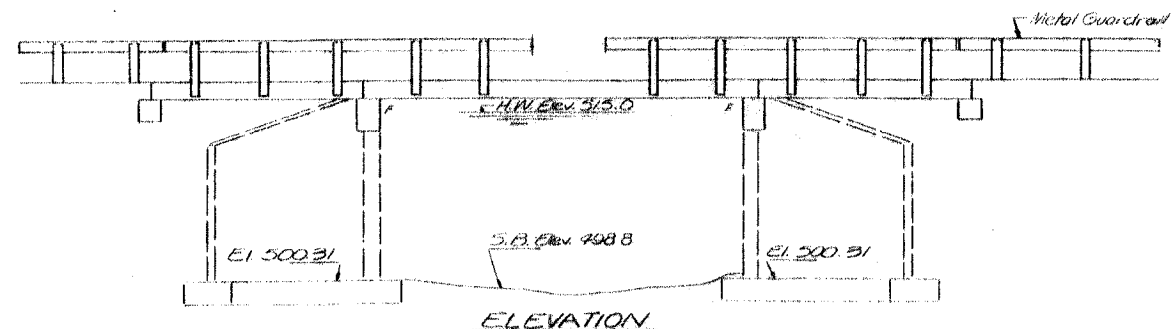
GREENE & BRADFORD, INC.
OF BENTONVILLE
REGISTERED PROFESSIONAL ENGINEERS
AND ARCHITECTS
1000 N. W. 10TH AVE., SUITE 100
BENTONVILLE, AR 72716-1000
TEL: 479-944-1000 FAX: 479-944-1001

COMPUTER FILE NO.
SN0820305_BOR1
PROJECT 02076
4/28/05-MML

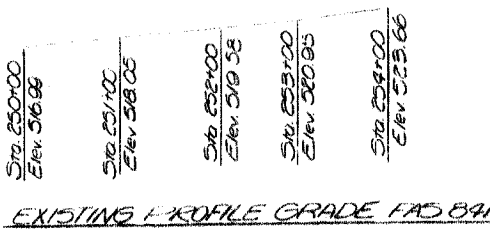
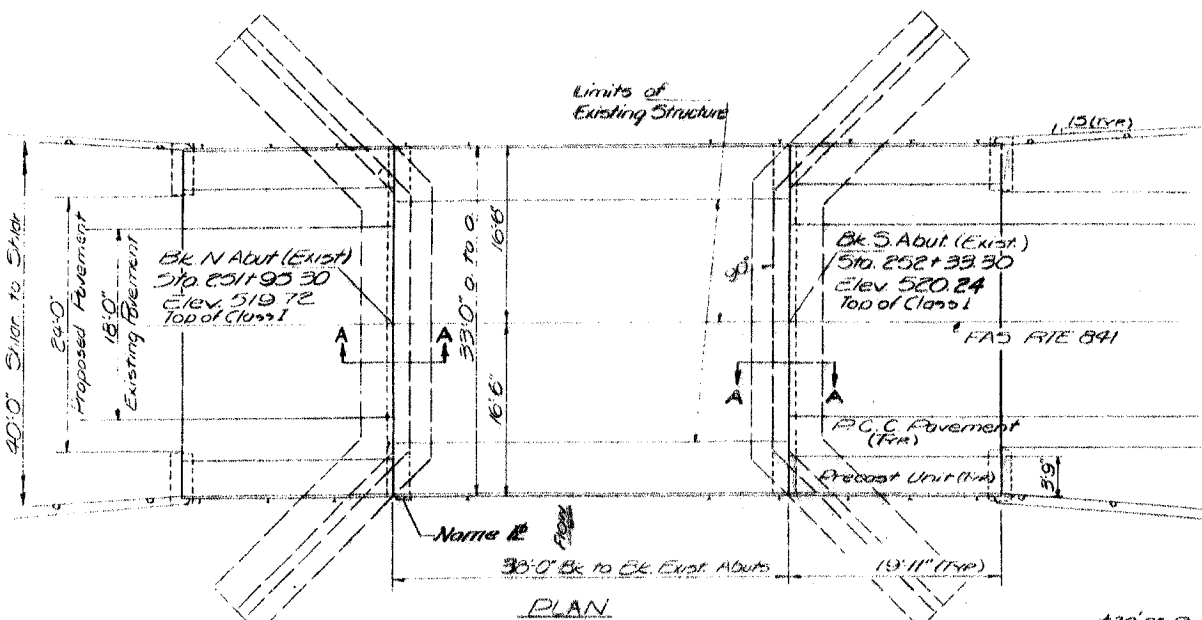
B.M. #17 R.R. Spike in 16" Tree 60 ft Sta. 255+08 Elev. 529.66
 Exist. Structure: Built as FAS 891 Sec. 76 BR-1 Sta. 252+20
 Superstr. is RC Thru Girders. Substr. is
 RC Closed Abuts. Contractor shall remove existing
 Superstr. only. No Salvage.
 Temporary Bridge req'd

STATE OF ILLINOIS

ROUTE NO.	DISTRICT	PROJECT	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
76BR-1	St. Clair	11	5	5	5 SHEETS



GENERAL NOTES
 All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
 It shall be the responsibility of the contractor to verify all dimensions & conditions existing in the field prior to construction & ordering of materials.
 An alternate strand pattern using extra high strength prestressing strand (270 k.s.f.) is permitted.
 Shoulder transition to wing wall shall be shaped with broken concrete. Cost incidental.
 Limits of coal tar interlayer protective coat shall be back to back of abutments & out to out of deck.
 Expansion bolts shall consist of self-drilling expansion shields & 3/4" hooked bolts.
 Hooked bolts shall extend a minimum of 12" into new concrete except as otherwise shown.



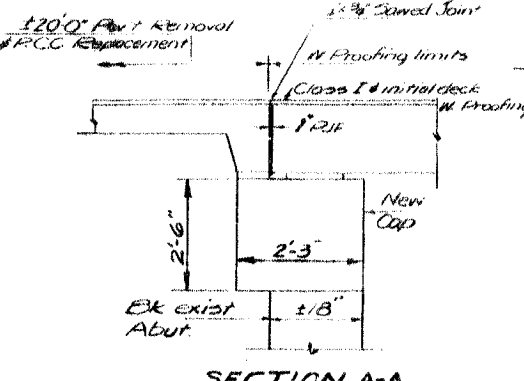
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUB.	SUPER	TOTAL
P.C. Pavement (10')	Sq. Yds.			33
Pavement Fabric	Sq. Yds.			33
Concrete Removal	Cu. Yds.	8.2		8.2
Expansion Bolts (3/4")	Each		84	84
Class X Concrete	Cu. Yds.	15.1		15.1
Precast Conc. Bridge Slab	Sq. Ft.			299
Precast Prestressed Concrete Deck Beams (1/4")	Sq. Ft.		1,249	1,249
Steel Railing Type S	Lf. Ft.		156	156
Reinforcement Bars	Lbs.	2070		2070
Name Plates	Each			1
Removal of Existing Superstructures	Each			1
Coal Tar Interlayer Protective Coat	Sq. Yds.		140	140
Bituminous Concrete Surface Course, Class I	Sq. Yds.		16	16
Temporary Bridge Complete	Each			1

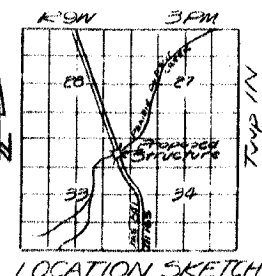
DESIGN STRESSES

FIELD UNITS
 Fc = 1000 psi (Sub)
 Fs = 20000 psi (Reinf)
 vs. 75 psi (Footings)
 n = 10

PRECAST PRESTRESSED UNITS
 Fc = 5000 psi
 Fci = 4000 psi
 Fs = 248,000 psi (5 Strands)
 Fci = 173,600 psi (5 Strands)



LOADING H500-44



GENERAL PLAN & ELEVATION
 FAS RTE 891 OVER
 PRAIRIE DUPONT CREEK
 FAS RTE 891 SEC. 76 BR-1
 ST. CLAIR COUNTY
 STA. 252+20

DESIGNED: K. A. S. (nd)
 CHECKED: M. J. C. (nd)
 DRAWN: L.H.
 CHECKED: M.O. PSL

MAY 5 1971
 EXAMINED: [Signature]
 PASSED: W. E. Baumann
 APPROVED: K. A. S. (nd)

STATION 252+20
 PRAIRIE DUPONT CREEK
 RE-BUILT 197 BY
 F.A.S. RT. 891 SEC. 76 BR-1
 LOADING H500
NAME PLATE
 See Std. 2113-1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
609	76-3BR	ST. CLAIR	46	37
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

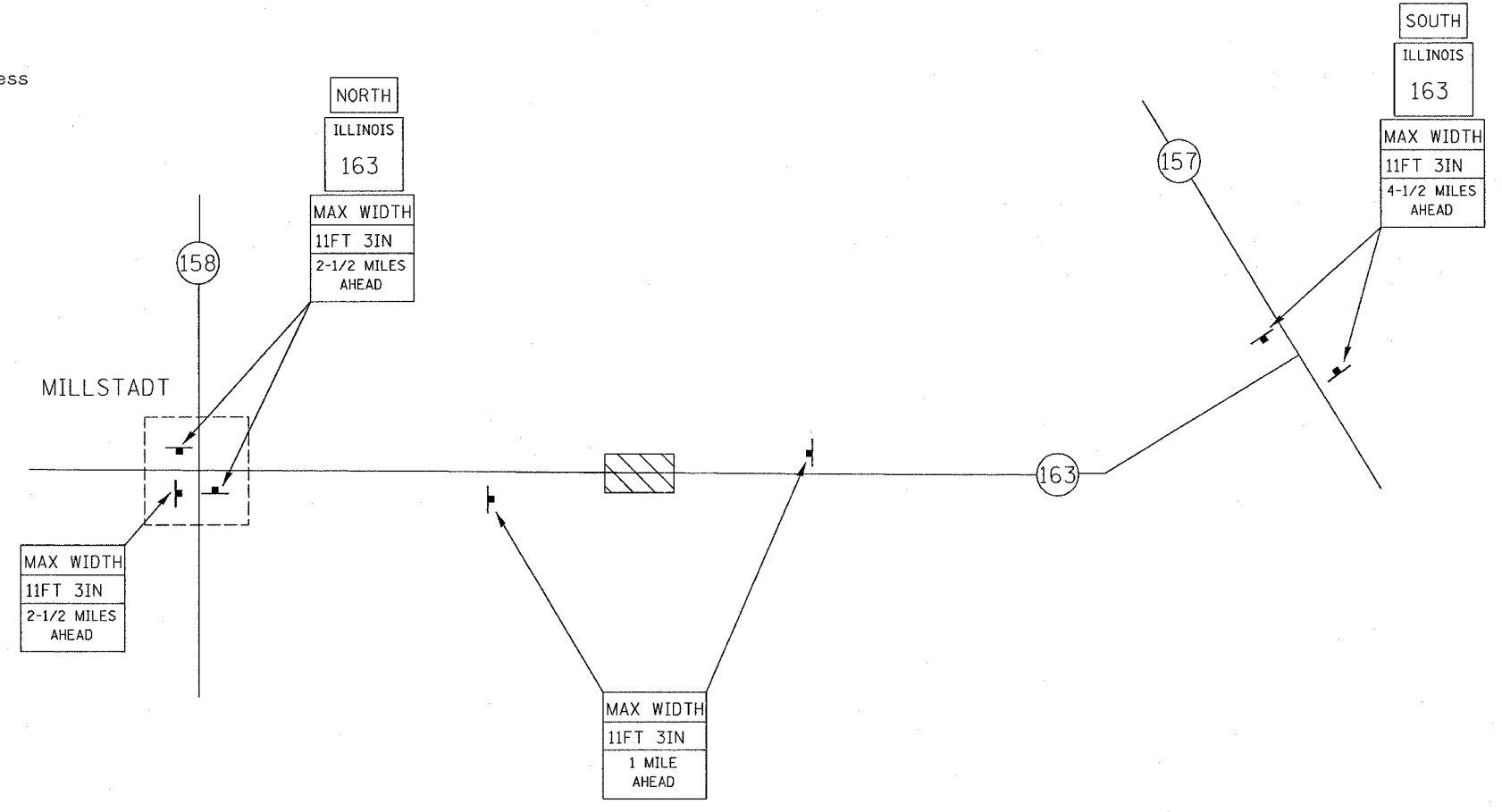
CONTRACT 76268

IL 163 OVER PRAIRE DUPONT CREEK



Notes

1. All signs required will be supplied to the contractor by I.D.O.T.
2. The contractor shall furnish the posts and erect signs at the locations shown on this sheet, as directed by the R.E./R.T. The posts shall remain the property of the contractor.
3. The contractor shall give Illinois Department of Transportation, Bureau of Operations two weeks notice for signs. The contractor shall pick up the signs at the T.M. building in Fairview Hgts., and return them upon completion of the contract.
4. The above noted work shall be paid for at the contract unit price, Lump Sum, for Wide Load Signing and no other compensation will be allowed.
5. Sign spacing will be 400' or to fit field conditions.
6. The height to the bottom of the lowest sign shall not be less than 6'.
7. Remove Wide Load Signing after Stage 1



MAX WIDTH
11FT 3IN
4-1/2 MILES
AHEAD (2)

MAX WIDTH
11FT 3IN
2-1/2 MILES
AHEAD (3)

MAX WIDTH
11FT 3IN
1 MILE
AHEAD (2)

ILLINOIS
163 (4)

NORTH (2)

SOUTH (2)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
WIDE LOAD SIGN DETAIL
 FAP ROUTE 609
 SECTION 76-3BR
 ST. CLAIR COUNTY

SCALE: VERT. DRAWN BY
 HORIZ. CHECKED BY
 DATE

PLOT DATE = 9/1/2005
 FILE NAME = c:\projects\10599\10599.dgn
 PLOT SCALE = 1/8" = 1'-0"
 REFERENCE = #REF#

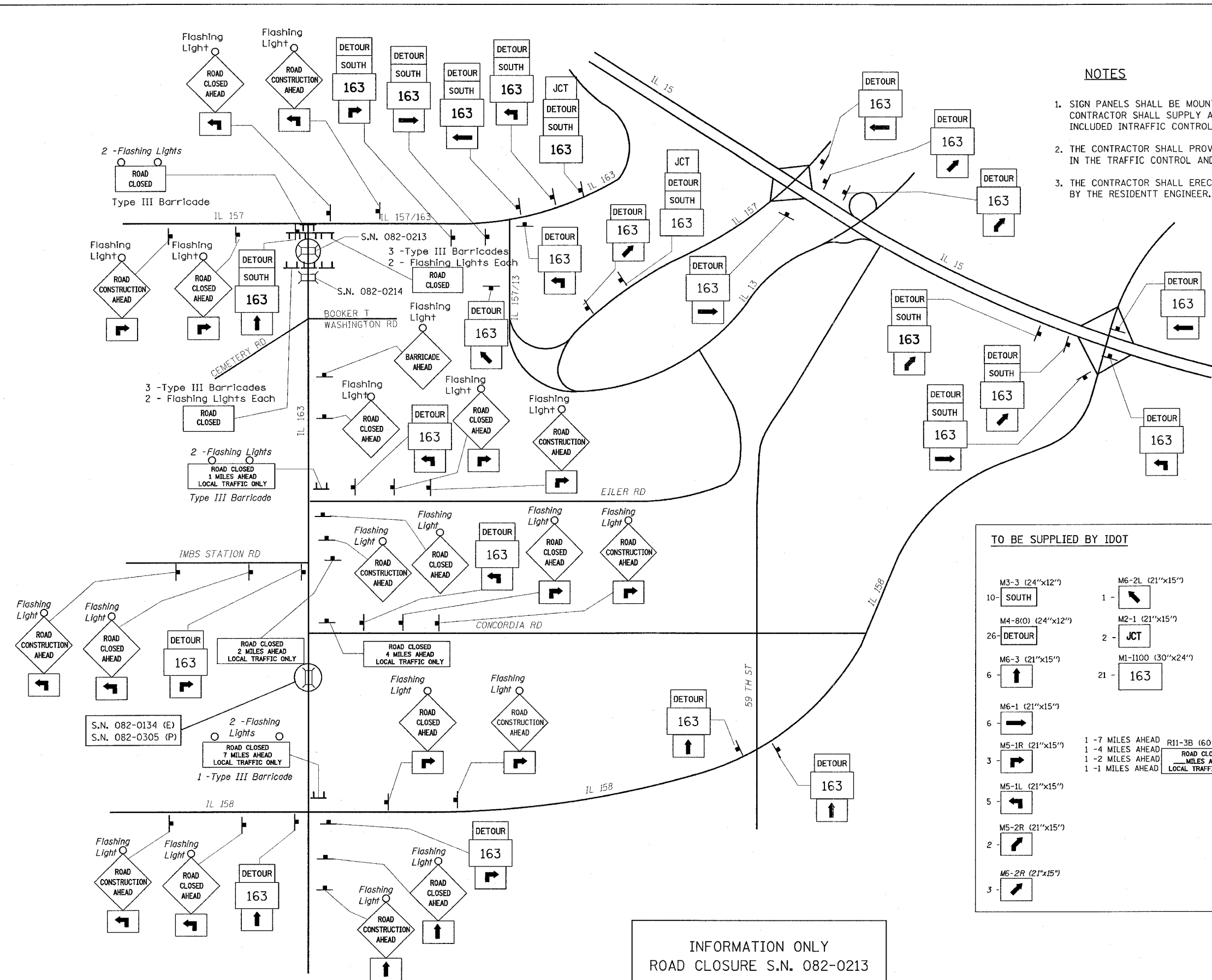
FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
609	76-3BR	ST. CLAIR	46	37A
STA.		TO STA.		
EXISTING CONDITIONS:				

NOTES

- SIGN PANELS SHALL BE MOUNTED ON SKID--MOUNTED POSTS. THE CONTRACTOR SHALL SUPPLY ALL SKID MOUNTED POSTS. COST SHALL BE INCLUDED INTRAFFIC CONTROL AND PROTECTION (SPECIAL).
- THE CONTRACTOR SHALL PROVIDE ALL SIGH PANELS. COST SHALL BE INCLUDED IN THE TRAFFIC CONTROL AND PROTECTION o(SPECIAL).
- THE CONTRACTOR SHALL ERECT SIGNS AT LOCATIONS AS DIRECTED BY THE RESIDENTT ENGINEER.



INFORMATION ONLY
ROAD CLOSURE S.N. 082-0213



TO BE SUPPLIED BY IDOT		TO BE SUPPLIED BY CONTRACTOR	
M3-3 (24"x12") 10 - SOUTH	M6-2L (21"x15") 1 - [arrow pointing up and right]	R11-2 (48"x30") 2 - ROAD CLOSED	M5-1R(O) (24"x24") 6 - [arrow pointing right]
M4-8(O) (24"x12") 26 - DETOUR	M2-1 (21"x15") 2 - JCT	W20-1(O) (48"x48") 6 - ROAD CONSTRUCTION AHEAD	M5-1L(O) (24"x24") 4 - [arrow pointing left]
M6-3 (21"x15") 6 - [arrow pointing up]	M1-1100 (30"x24") 21 - 163	wW20-3(O) (48"x48") 7 - ROAD CLOSED AHEAD	9 - TYPE III BARRICADES
M6-1 (21"x15") 6 - [arrow pointing right]	1 - 7 MILES AHEAD R11-3B (60"x30")	W21-1100(O) (48"x48") 1 - BARRICADE AHEAD	38 - FLASHING LIGHTS
M5-1R (21"x15") 3 - [arrow pointing right]	1 - 4 MILES AHEAD		
M5-1L (21"x15") 5 - [arrow pointing left]	1 - 2 MILES AHEAD		
M5-2R (21"x15") 2 - [arrow pointing right]	1 - 1 MILES AHEAD		
M6-2R (21"x15") 3 - [arrow pointing up and right]			

NOT TO SCALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETOUR SIGNING

FAP ROUTE 609 (IL RTE 163)
SECTION 76-3BR
ST. CLAIR COUNTY

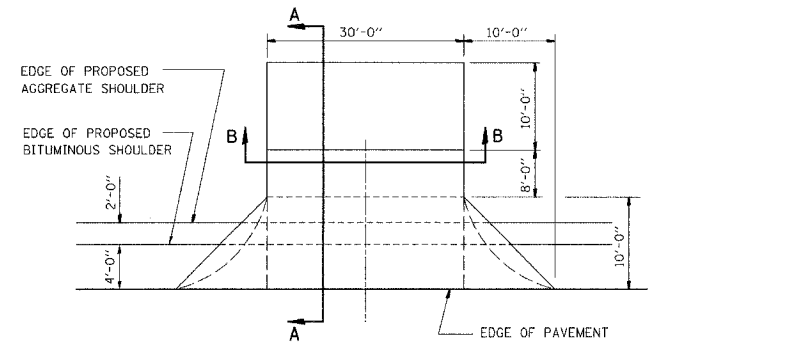
DRAWN BY: _____

DATE	BY

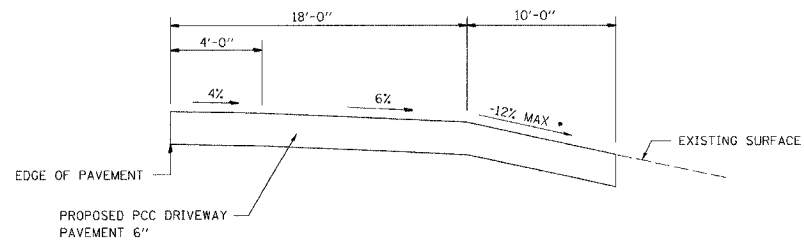
PLAN	SURVEYED
NOTE BOOK	PLotted
NO.	DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
609	...	ST. CLAIR	46	38
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
... SEC. 76-3BR		CONTRACT NO. 76268		

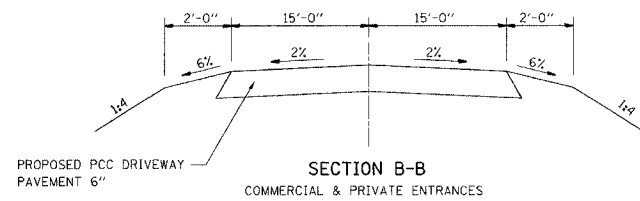
DETAIL OF CONCRETE ENTRANCES
W/ BITUMINOUS SHOULDERS
COMMERCIAL & PRIVATE ENTRANCES



PLAN



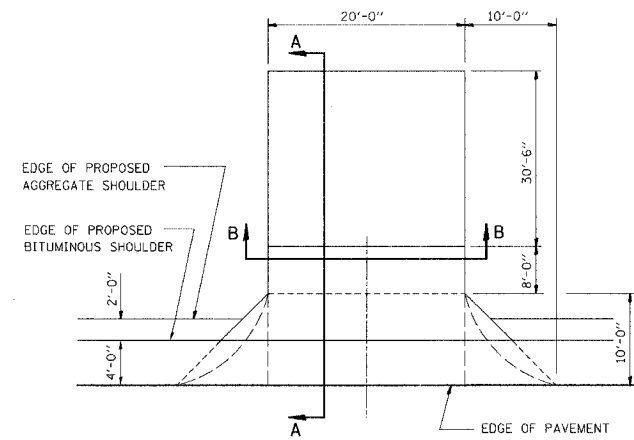
SECTION A-A
• SEE CROSS SECTIONS FOR SLOPES



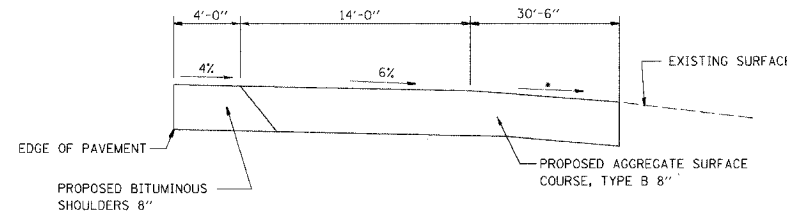
SECTION B-B
COMMERCIAL & PRIVATE ENTRANCES

STATION 140+61, LT.

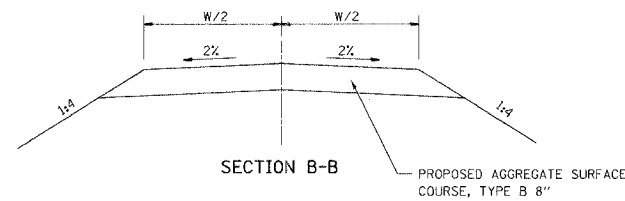
DETAIL OF FIELD ENTRANCES
W/ BITUMINOUS SHOULDERS



PLAN



SECTION A-A
• SEE CROSS SECTIONS FOR SLOPES



SECTION B-B
PROPOSED AGGREGATE SURFACE COURSE, TYPE B 8"

STATION 136+65, LT.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ENTRANCE DETAILS
FAP 609 (IL RTE. 163)
SECTION 76-3BR
ST. CLAIR COUNTY

SCALE: VERT. HORIZ. DATE: 11/26/02
DRAWN BY: BISHOP
DESIGNED BY: COLBROOK
CHECKED BY: COLBROOK
COMPUTER FILE NO. SPL163BR
PROJECT: 02076
6/24/05-MDS



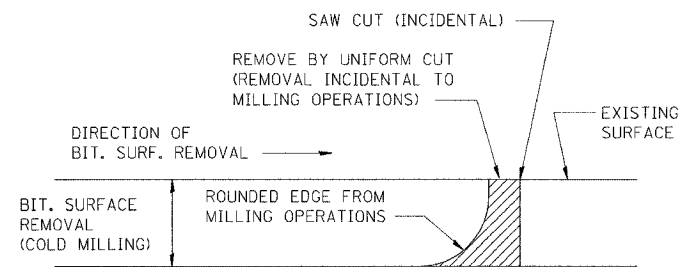
PLAN	BY	DATE

PROFILE	BY	DATE

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PLOT BY: JES BRB, ENG, 01
PLOT DATE: 6/20/05 PM
OPERATOR: MCK

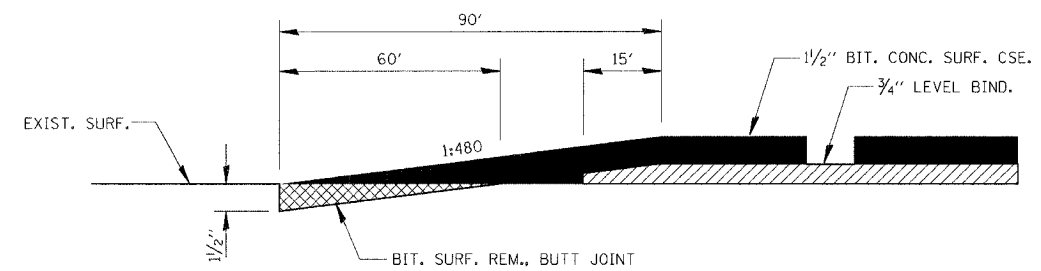
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609	***	ST. CLAIR	46	39
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
*** SEC. 76-3BR				
CONTRACT NO. 76268				

PLAN	DATE
SURVEYED	
ALIGNED	
CHECKED	
BY	
NO.	



NOTE: WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL.

BITUMINOUS DETAIL AT BUTT JOINTS



PROFILE	DATE
SURVEYED	
ALIGNED	
CHECKED	
BY	
NO.	

FILE NAME = I:\2026\DRAWINGS\SP163BR.dgn
 PLOT DATE = 8/24/98
 PLOT BY = MRP-KB

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BITUMINOUS BUTT JOINT DETAILS
 FAP 609 (IL RTE. 163)
 SECTION 76-3BR
 ST. CLAIR COUNTY

SCALE: VERT. _____
 HORIZ. _____
 DATE: 2/22/05

DRAWN BY: SUTHEARD
 DESIGNED BY: COLBROOK
 CHECKED BY: COLBROOK

GREENE & BRADFORD, INC.
 OF SPRINGFIELD
 CONSULTING ENGINEERS
 300 CENTERVILLE DRIVE
 SPRINGFIELD, ILLINOIS 62707
 TEL: 217/373-8844

COMPUTER FILE NO.
 SPL163BR
 PROJECT: 02076
 2/22/05-MDS

IDOTPL50 1"=50' 8/24/98

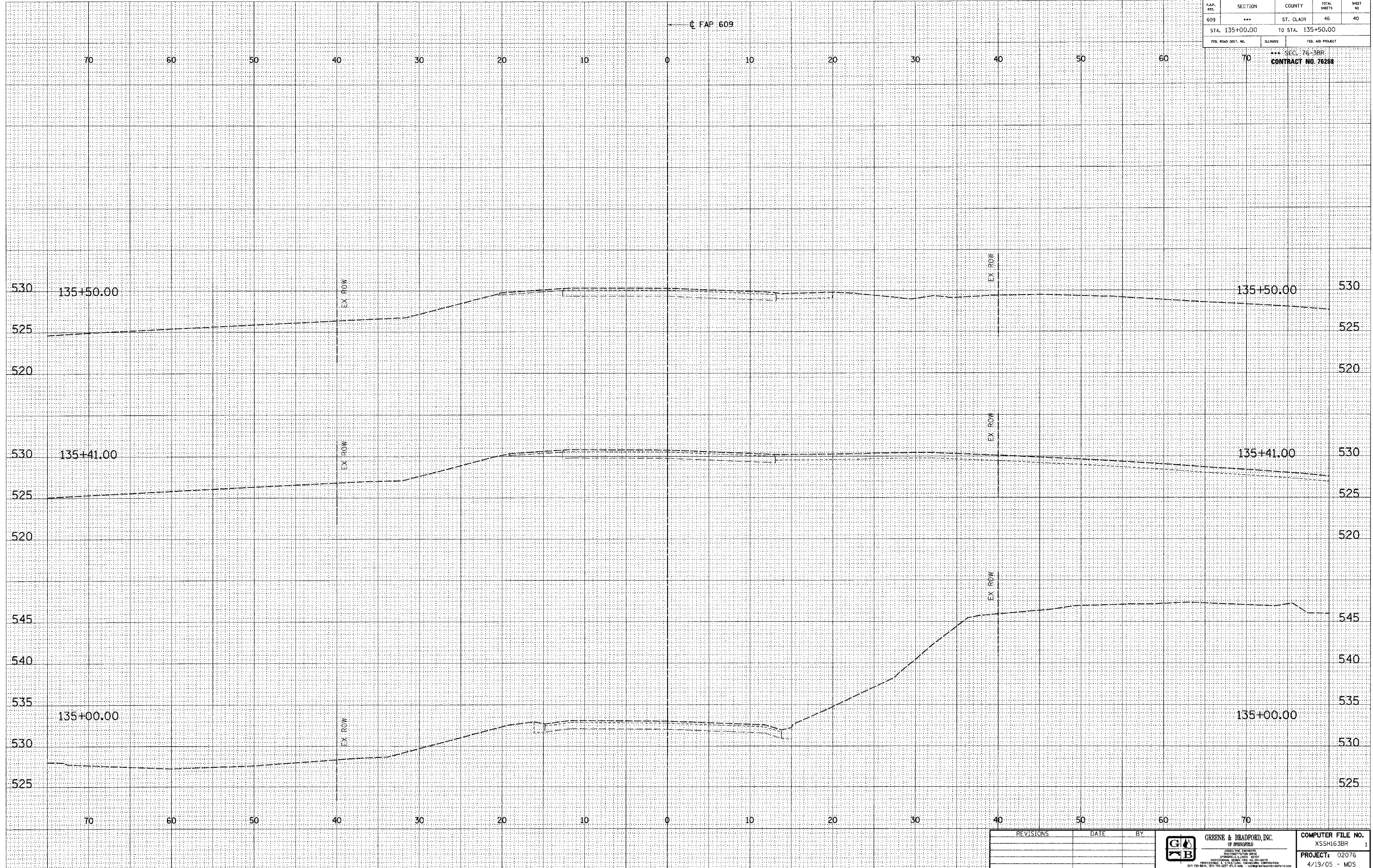
DETAILS

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA. 135+00.00		TO STA. 135+50.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
*** SEC. 76-3BR CONTRACT NO. 76288				

FINI	SURVEYED	DATE
NO.	PLOTTED	
	TEMPLATE	
	NOTE BOOK	
	AREAS CHECKED	

ORIGINAL	SURVEYED	DATE
NO.	PLOTTED	
	TEMPLATE	
	NOTE BOOK	
	AREAS CHECKED	

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PLOT DATE = \$DATE\$
PLOT TIME = \$TIME\$
OPERATOR = \$USER\$



REVISIONS	DATE	BY



GREENE & BRADFORD, INC.
OF SPRINGFIELD
100 EAST MAIN STREET
SPRINGFIELD, ILLINOIS 62761
PROFESSIONAL ENGINEER
ILLINOIS LICENSE NO. 001-001-001
(618) 233-8844 (618) 755-1211 FAX (618) 233-8844
WWW.GREENEBRADFORD.COM

COMPUTER FILE NO.
XSSH163BR 1
PROJECT: 02076
4/19/05 - MDS

IDOTXSEC-5 1:5 8/07/00

CROSS SECTIONS

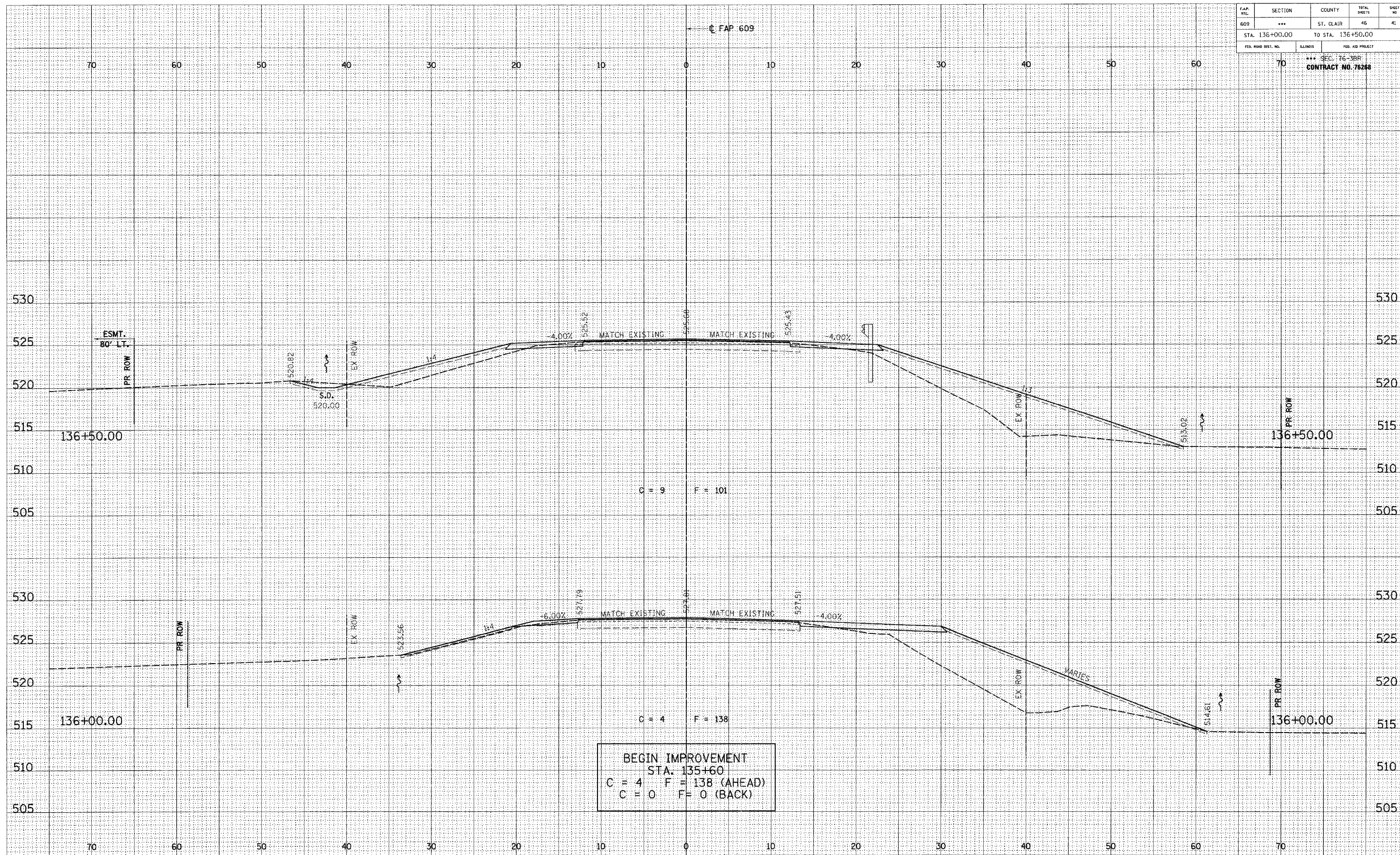
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STA. 136+00.00		TO STA. 136+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEC. 76-3BR
CONTRACT NO. 76268

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ORIGINAL SURVEY PLOTTED NOTE BOOK NO.	BY	DATE

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PLOT DATE = \$DATE\$
PLOT OPERATOR = \$USER\$



REVISIONS	DATE	BY



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PROJECT:	02076
	4/19/05 - MDS

IDOTXSEC-5 1:5 8/07/00

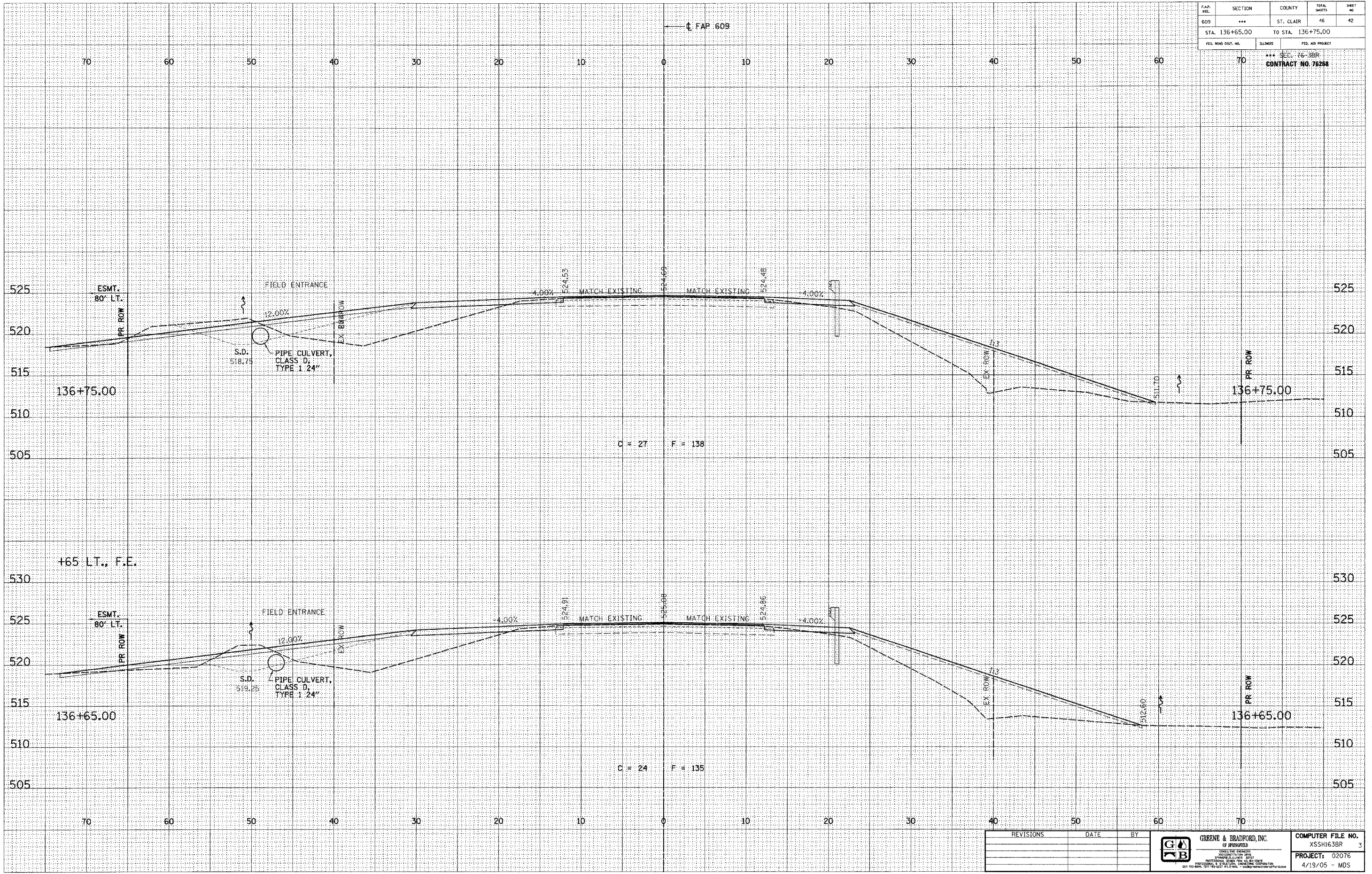
CROSS SECTIONS

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STA. 136+65.00		TO STA. 136+75.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
*** SEC. 16-3BR				
CONTRACT NO. 76268				

BY	DATE
SURVEYED	
DRAWN	
CHECKED	
NOTE BOOK	
AREAS CHECKED	
NO.	

BY	DATE
ORIGINAL SURVEY	
DRAWN	
CHECKED	
NOTE	
NO.	

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 PLOT SCALE = \$DSCALE\$ DRY = \$PLOTTER\$
 PLOT TIME = \$TIME\$
 OPERATOR = \$USER\$



REVISIONS	DATE	BY

	GREENE & BRADFORD, INC. <small>CONSULTING ENGINEERS</small> <small>1000 N. W. 10th St., Ft. Lauderdale, FL 33304</small> <small>TEL: (954) 572-1111 FAX: (954) 572-1112</small>	COMPUTER FILE NO. XSSHI63BR 3 PROJECT: 02076 4/19/05 - MDS
	<small>© 1995 GREENE & BRADFORD, INC. ALL RIGHTS RESERVED.</small>	

IDOTXSEC-5 1:5 8/07/00

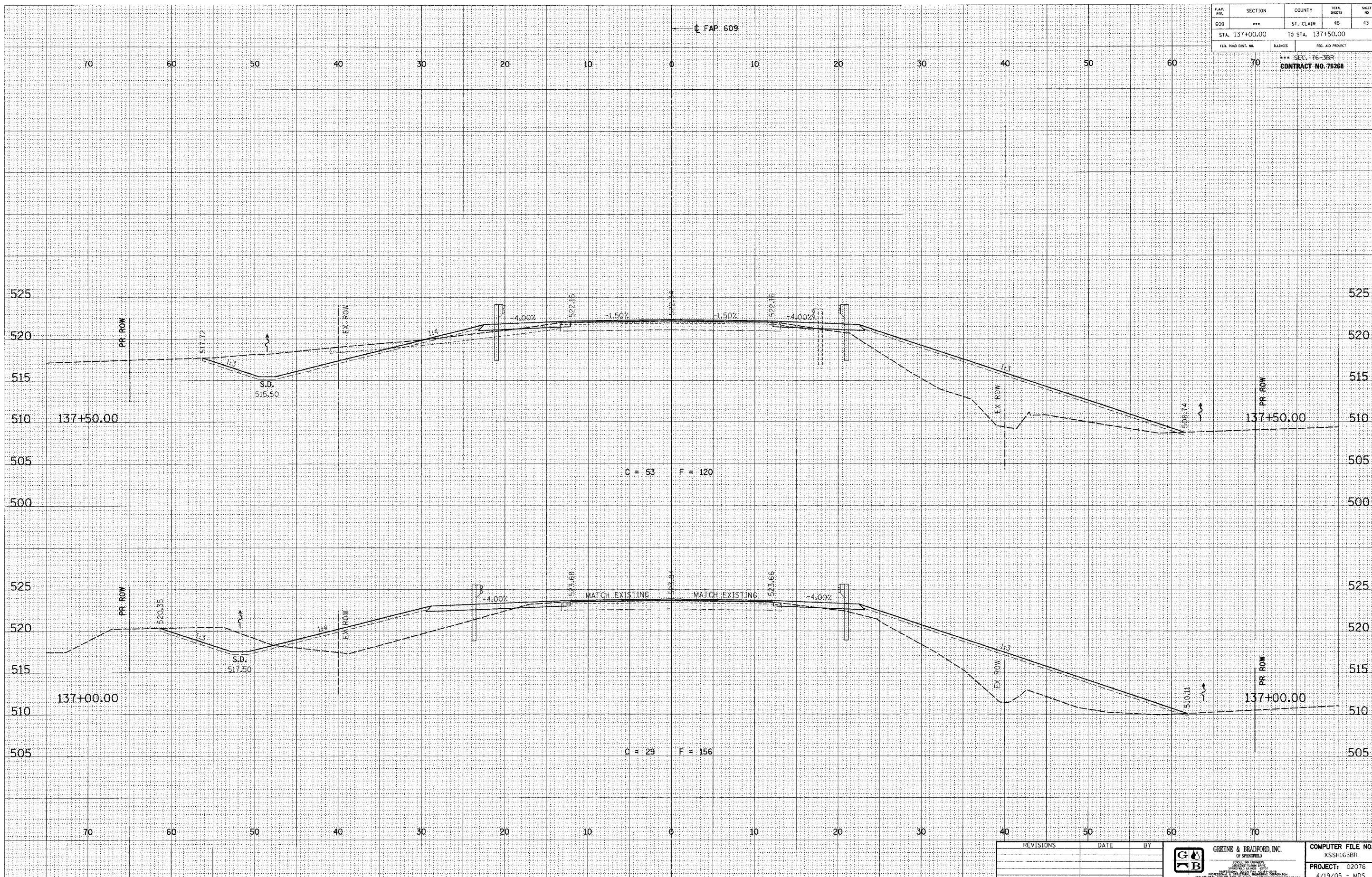
CROSS SECTIONS

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
609	***	ST. CLAIR	46	43
STA. 137+00.00		TO STA. 137+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
*** SEC. 76-3BR				
CONTRACT NO. 76268				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	AREAS CHECKED	

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 PLOT TIME = 8TIME8
 OPERATOR = 8USER8



REVISIONS	DATE	BY

GREENE & BRADFORD, INC.
 OF SPRINGFIELD
 CONSULTING ENGINEERS
 1000 N. WASHINGTON ST.
 SPRINGFIELD, ILLINOIS 62761
 (618) 244-1221 FAX (618) 244-1222
 WWW.GREENE-AND-BRADFORD.COM

COMPUTER FILE NO.
 XSSH163BR 4
PROJECT: 02076
 4/19/05 - MDS

1DOTXSEC-5 1:5 8/07/00

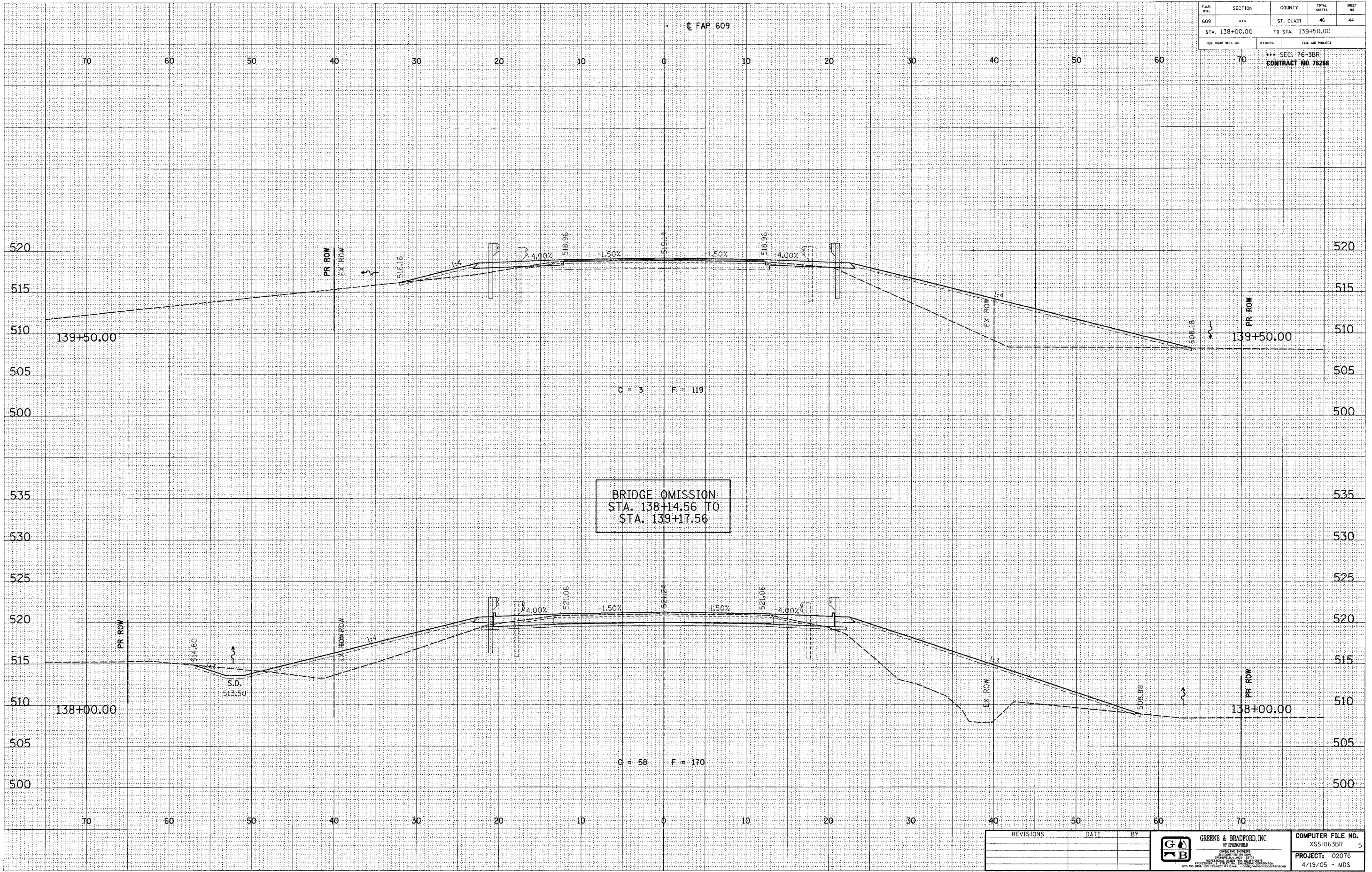
CROSS SECTIONS

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
609	***	ST. CLAIR	46	44
STA. 138+00.00		TO STA. 139+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
*** SEC. 76-3BR				
CONTRACT NO. 76288				

FINAL SURVEY	BY	DATE
NOTED		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
NOTED		
AREAS CHECKED		

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 PLOT SCALE = \$SCALE\$
 PLOT DATE = \$DATE\$
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 OPERATOR = \$USER\$



REVISIONS	DATE	BY



COMPUTER FILE NO.
XSSH163BR 5
PROJECT: 02076
4/19/05 - MDS

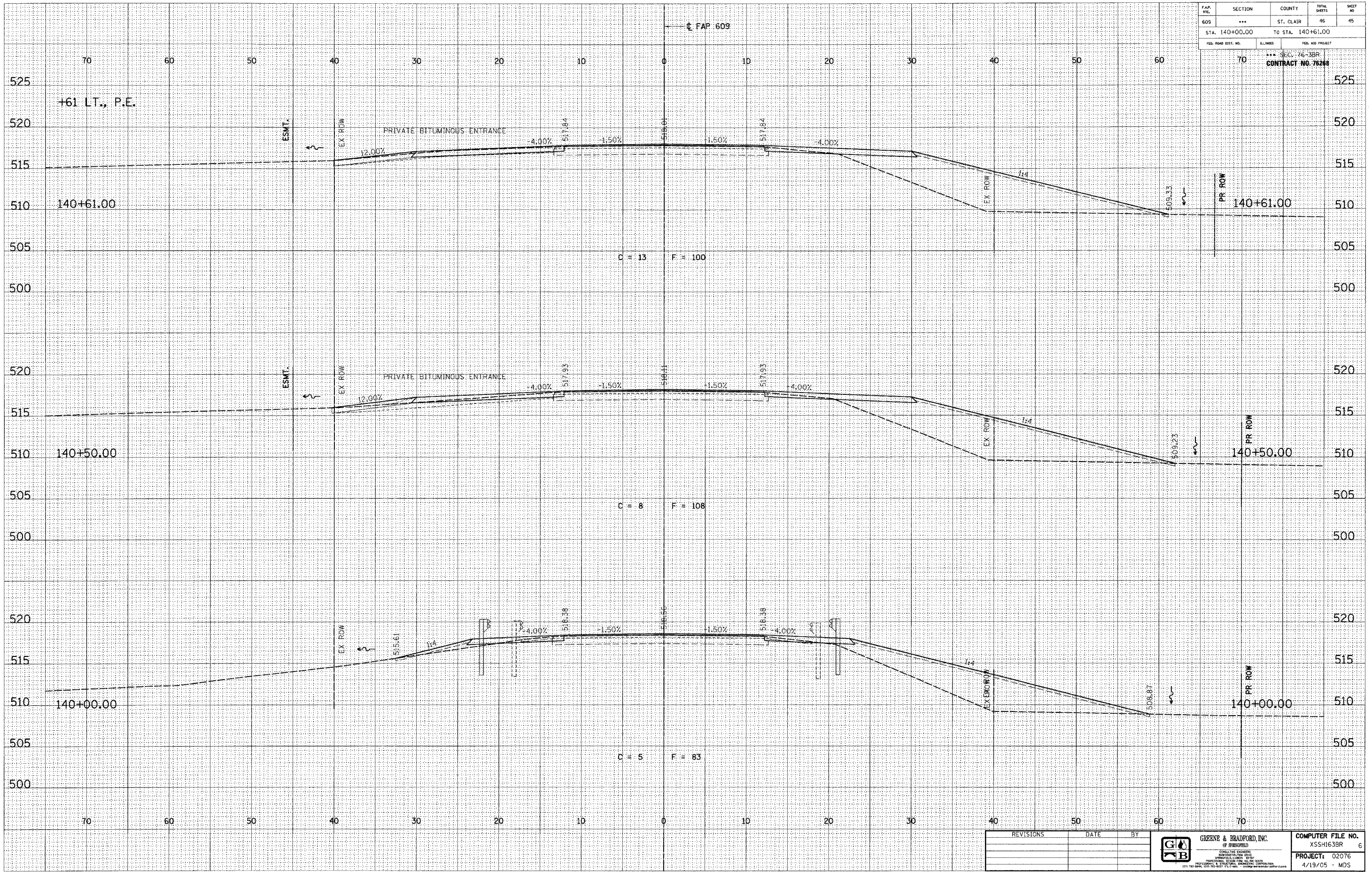
CROSS SECTIONS

F.A.P. STA.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
609	***	ST. CLAIR	46	45
STA. 140+00.00		TO STA. 140+61.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
		*** SEC. 76-3BR		
CONTRACT NO. 76288				

FINISH SURVEY	BY	DATE
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
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 PLOT TIME = \$TIME\$
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REVISIONS	DATE	BY



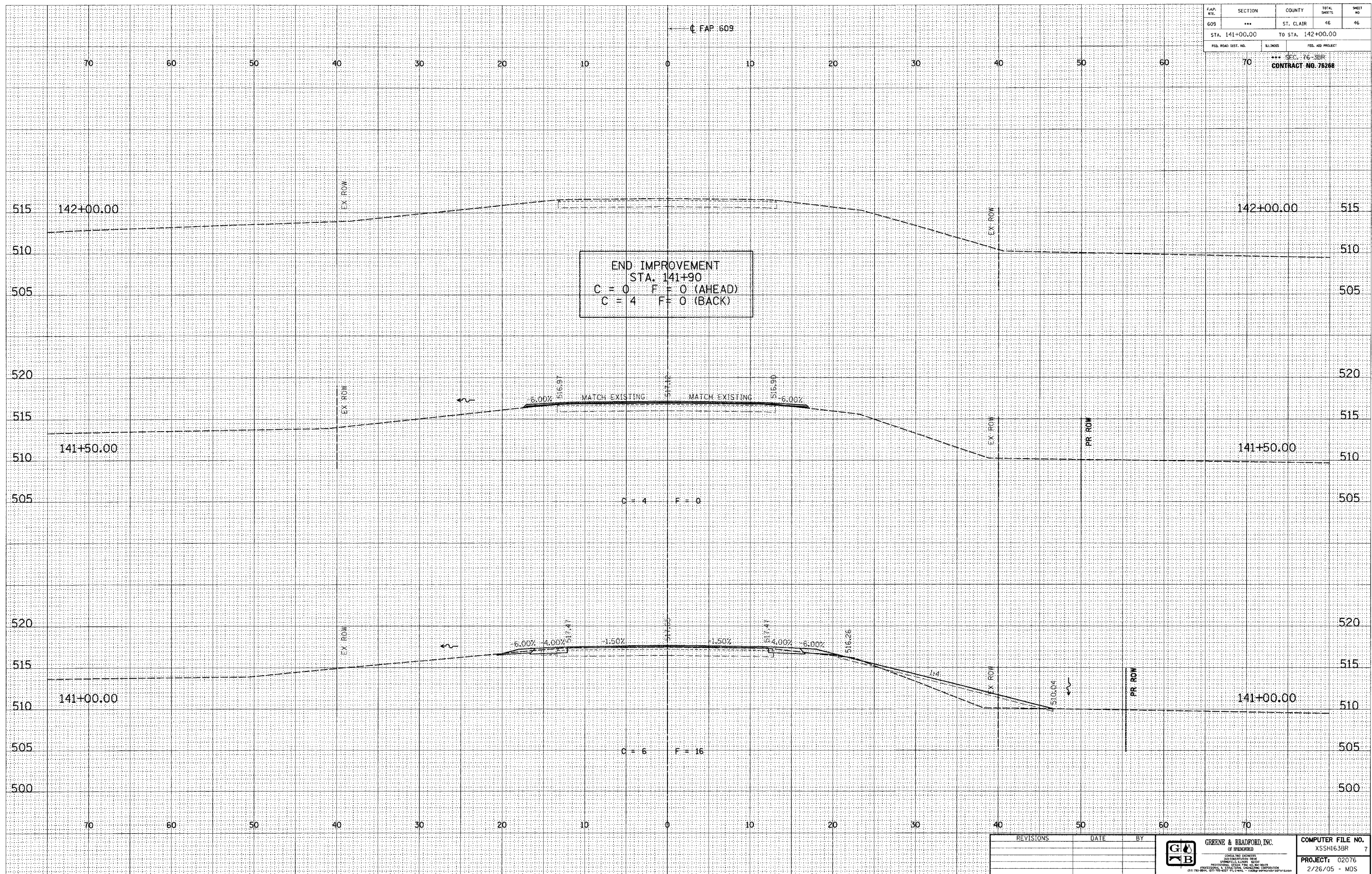
COMPUTER FILE NO.
XSSH163BR 6
PROJECT: 02076
4/19/05 - MDS

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
609	***	ST. CLAIR	46	46
STA. 141+00.00		TO STA. 142+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		*** SEC. 7G-3BR		
CONTRACT NO. 76268				

FINAL SURVEY	DATE
BY	
REVISIONS	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY	DATE
BY	
REVISIONS	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

FILE NAME = \$FILES
 PLOT SCALE = \$DISTSCL\$ DRV = \$PLOTTERS\$
 PLOT DATE = \$DATES\$
 PLOT TIME = \$TIMES\$
 OPERATOR = \$USERS\$



REVISIONS	DATE	BY

GREENE & BRADFORD, INC. OF SPRINGFIELD ENGINEERS, ARCHITECTS, PLANNERS AND SURVEYORS 1001 W. BROADWAY, SUITE 200 SPRINGFIELD, ILLINOIS 62760 (417) 766-8800 FAX (417) 766-8801	COMPUTER FILE NO. XSSH163BR 7 PROJECT: 02076 2/26/05 - MDS
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ID0TXSEC-5 I:5 8/07/00

CROSS SECTIONS