3-6-09 Letting, Item 171

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 76987		

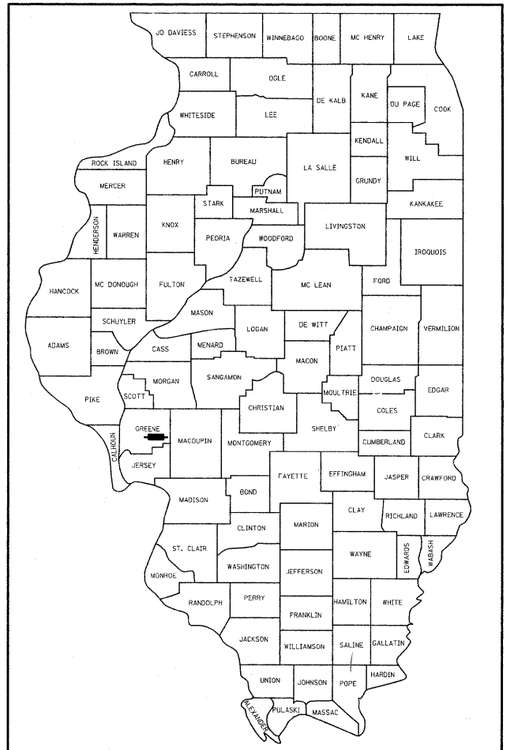
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

FAP ROUTE 761 (IL ROUTE 108)
SECTION 104-BR-2
PROJECT : BRF-0761(010)
GREENE COUNTY
STRUCTURE REPLACEMENT
C-98-092-08

FOR INDEX OF SHEETS, SEE SHEET NO. 2

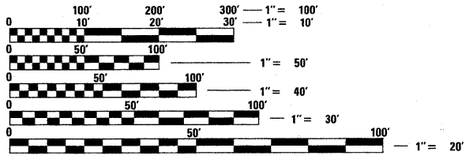
D-98-015-06



LOCATION OF SECTION INDICATED THUS: –

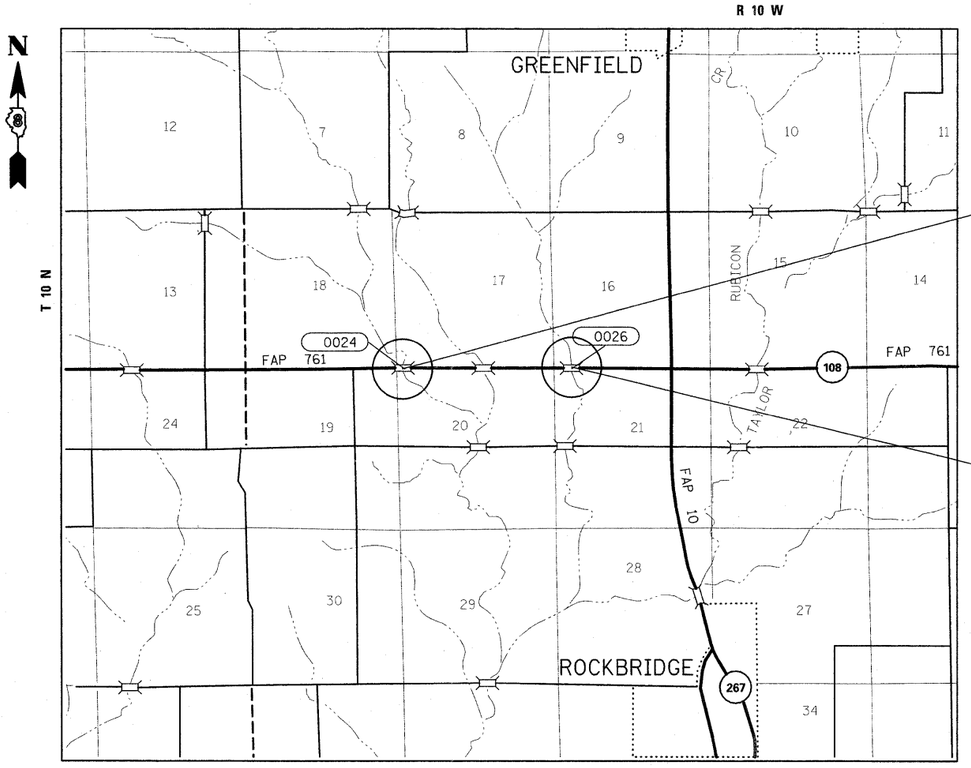
FAP 761 (IL 108)
ADT = 1100 (2005)
ADT = 1125 (2007)
ADT = 1350 (2027)
SU = 4.5%
MU = 4.5%

DESIGN DESIGNATION
NA



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

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811



LAYOUT
0 MI 1 MI 2 MI 3 MI
1" = 1 MILE

SINGLE SPAN PPC DECK BEAM TO BE REPLACED WITH PRECAST TRIPLE BOX CULVERT OVER TAYLOR CREEK
STA 1068 + 35
SN 031-0024 (E)
SN 031-2012 (P)

SINGLE SPAN PPC DECK BEAM TO BE REPLACED WITH SINGLE SPAN WIDE FLANGE STRUCTURE OVER TAYLOR CREEK
STA 1123 + 55
SN 031-0026 (E)
SN 031-0042 (P)

SN 031-0024	
LATITUDE:	39° 18' 20.06"
LONGITUDE:	90° 14' 27.24"

SN 031-0026	
LATITUDE:	39° 18' 19.97"
LONGITUDE:	90° 13' 16.39"

SN 031-2012
GROSS LENGTH 0.0104 MI
NET LENGTH 0.0104 MI

SN 031-0042
GROSS LENGTH 0.0165 MI
NET LENGTH 0.0165 MI

TOTAL
GROSS LENGTH 0.0269 MI
NET LENGTH 0.0269 MI

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED December 11 20 08
Mary C. Lane
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
January 30, 20 09
Charles J. Ingersoll
ENGINEER OF DESIGN AND ENVIRONMENT
January 30, 20 09
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PROJECT ENGINEER: PATTI LeBEAU (618 346-3179
PROJECT MANAGER: ARTHUR MUEHLFELD (618) 346-3209

CONTRACT NO. 76987

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

HIGHWAY STANDARDS

000001-05		701311-03
280001-04		701321-10
515001-03	630301-05	701326-03
601101-01	631031-07	701901-01
606201-02	635006-03	704001-05
630001-08	635011-02	780001-02
630101-08	666001-01	781001-03
	701301-03	

GENERAL NOTES:

1. THE STANDARDS AND REVISION NUMBERS SHALL APPLY TO THIS PROJECT.

2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

3. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

   - AMERENCIPS (ELECTRIC)
   - FRONTIER COMMUNICATIONS COMPANY (COMMUNICATIONS)
   - GREENE COUNTY RURAL WATER DISTRICT (WATER)
   - CITY OF GREENFIELD (WATER & SANITARY SEWER)
   - VERIZON NORTH, INC. (COMMUNICATIONS)

   MEMBERS OF J.U.L.I.E. (800) 892-0123 ARE INDICATED BY •.
   NON-MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

4. THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE MINIMAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.

5. SHORT-TERM PAVEMENT MARKING SHALL BE APPLIED TO THE MILLED SURFACE AND FINAL SURFACE.

6. NO OPEN TRENCHES SHALL BE PERMITTED DURING WINTER SHUTDOWN OR AS DIRECTED BY THE ENGINEER.

7. THE CONTRACTOR SHALL SAWCUT ALONG THE EDGE OF THE ROADWAY PRIOR TO PLACING THE 3' WIDENING FOR STAGE CONSTRUCTION AS DETAILED IN THE PLANS. THE COST SHALL BE INCLUDED IN THE COST OF THE REMOVAL ITEM.

8. RIGHT OF WAY MARKERS SHALL BE SET SO THE BACK OF THE POST IS TWELVE INCHES (12") INSIDE THE RIGHT OF WAY BOUNDARY. RIGHT OF WAY PROPERTY CORNERS ARE MARKED BY A 5/8" IRON ROD WITH ALUMINUM CAP AND SHALL NOT BE REMOVED OR DAMAGED WHEN SETTING THE RIGHT OF WAY MARKERS.

9. BRIDGE APPROACH PAVEMENT INCLUDED IN PAVEMENT REMOVAL.

TRAFFIC CONTROL NOTES:

1. THE CONTRACTOR SHALL FURNISH AND INSTALL WOOD SIGN SUPPORTS IN ACCORDANCE WITH SECTION 730 OF THE STANDARD SPECIFICATIONS.

2. "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT THE BEGINNING AND ENDING OF THE PROJECT, AND WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLOURESCENT ORANGE.

3. ALL EXCAVATION ADJACENT TO THE EDGE OF PAVEMENT SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES AND APPROPRIATE LIGHTS.

4. THE BOTTOM 6" OF TEMPORARY CONCRETE BARRIER SHALL BE PAINTED WHITE. A QUANTITY OF 912.5 FT SHALL BE PAID FOR AS "TEMPORARY PAVEMENT MARKING - LINE 6" ".

COMMITMENTS

NONE

MIXTURE USE	SURFACE	BINDER / WIDENING	SHOULDERS	TOP LIFT SHOULDERS
AC/PG	PG 64-22	PG 64-22	PG 58-22	PG 58-22
RAP % (MAX)	10%	15%	30%	30%
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	2.0% @ Ndes=30	**2.0% @ Ndes=30
MIX COMPOSITION (GRADATION MIXTURE)				
FRICTION AGG	MIXTURE "C"	MIXTURE "B"	BAM	BAM

** 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 UNIT WEIGHT OF 112 LB/SQ YD IN (59.8 KG/SQ M/25 MM THICKNESS).

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		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 12/11/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES & COMMITMENTS

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	2
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			80% FED. 20% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		X028-2A	X071-2A	
20100500	TREE REMOVAL, ACRES	ACRE	0.25	0.19	0.06	
20200100	EARTH EXCAVATION	CU YD	85	55.3	29.7	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	692	692		
20400800	FURNISHED EXCAVATION	CU YD	3935	1709.7	2225.3	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	692	692		
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	161.2		161.2	
25000200	SEEDING, CLASS 2	ACRE	1.25	0.75	0.5	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	126	72	54	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	126	72	54	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	126	72	54	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	250	140	110	
28000400	PERIMETER EROSION BARRIER	FOOT	3178	1573	1605	
28100105	STONE RIPRAP, CLASS A3	SQ YD	120		120	
28100109	STONE RIPRAP, CLASS A5	SQ YD	1417	556	861	
28200200	FILTER FABRIC	SQ YD	1417	556	861	
35600712	HOT-MIX ASPHALT BASE COURSE WIDENING, 9"	SQ YD	776	363	413	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	0.6	0.1	0.5	
40600300	AGGREGATE (PRIME COAT)	TON	3	0.5	2.5	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	581		581	
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	835	202	633	
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	163.1	23.3	139.8	
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	223		223	
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	45		45	
44000100	PAVEMENT REMOVAL	SQ YD	263	130	133	
44000400	GUTTER REMOVAL	FOOT	245		245	
48203033	HOT-MIX ASPHALT SHOULDERS, 9"	SQ YD	384		384	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	2	1	1	
50200100	STRUCTURE EXCAVATION	CU YD	72.7		72.7	
50300225	CONCRETE STRUCTURES	CU YD	44		44	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	125.7		125.7	
50300260	BRIDGE DECK GROOVING	SQ YD	382		382	
50300280	CONCRETE ENCASEMENT	CU YD	4.2		4.2	
50300300	PROTECTIVE COAT	SQ YD	290		290	
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1	
50500505	STUD SHEAR CONNECTORS	EACH	1044		1044	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	87250	56,190	31060	

SUMMARY OF QUANTITIES			80% FED. 20% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		X028-2A	X071-2A	
50800515	BAR SPLICERS	EACH	623	268	355	
51201710	FURNISHING STEEL PILES HP12X84	FOOT	780		780	
51202305	DRIVING PILES	FOOT	780		780	
51203710	TEST PILE STEEL HP12X84	EACH	2		2	
51500100	NAME PLATES	EACH	2	1	1	
52100520	ANCHOR BOLTS, 1"	EACH	24		24	
54003000	CONCRETE BOX CULVERTS	CU YD	388	388		
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	81		81	
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	168		168	
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	11		11	
*63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	1075	625	450	
*63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	87.5	87.5		
*63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4		4	
*63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	1		1	
63200310	GUARDRAIL REMOVAL	FOOT	482	230	252	
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	22	11	11	
66700095	PERMANENT SURVEY MARKERS	EACH	6	3	3	
66700705	FURNISHING AND ERECTING DRAINAGE MARKERS	EACH	2	2		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7	3	4	
67100100	MOBILIZATION	L SUM	1	0.5	0.5	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.5	0.5	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	1	1	
70106700	TEMPORARY RUMBLE STRIP	EACH	12	6	6	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	276	128	148	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	912.5	375	537.5	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	92	42.7	49.3	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	912.5	375	537.5	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	862.5	350	512.5	
*78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3929	1597.5	2331.5	
*78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	491		491	
*78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	10	1	9	
*78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	2		2	
*78100300	REPLACEMENT REFLECTOR	EACH	6	6		
*78200410	GUARDRAIL MARKERS, TYPE A	EACH	21	10	11	
*78200520	BARRIER WALL MARKERS, TYPE B	EACH	2		2	

*SPECIALTY ITEMS

Rev.

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DESIGNED - | DRAWN - | CHECKED - | DATE -

REVISED - | REVISED - | REVISED - | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITES

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	3
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			80% FED. 20% STATE	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	X028-2A	X071-2A	
*78200530	BARRIER WALL MARKERS, TYPE C	EACH	2		2	
*78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	1		1	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	1310	532.6	777.4	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	12	6	6	
X0321100	GEOTEXTILE RETAINING WALL	SQ FT	150	150		
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1268	676	592	
X5121800	PERMANENT STEEL SHEET PILING	SQ FT	1272	1272		
X6330103	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL, TANGENT	EACH	7	4	3	
X7200200	WIDE LOAD SIGNING	L SUM	1	0.5	0.5	
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4	2	2	
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4	2	2	
20001900	ASBESTOS BEARING PAD REMOVAL	EACH	44	22	22	
X0326308	GEOGRID TIEBACK SYSTEM	L SUM	1	1		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT				

Rev.

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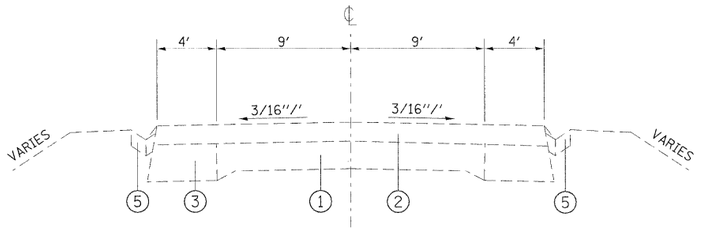
	PLOT DATE = 12/10/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITES

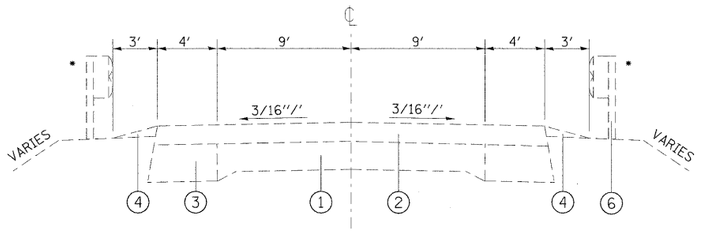
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	4
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EXISTING TYPICAL SECTION

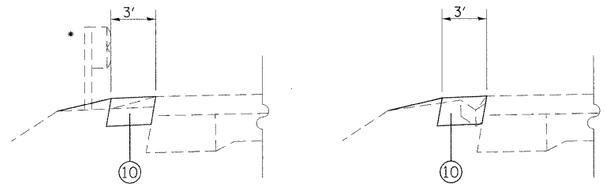
STA. 1064+98 TO STA. 1065+15
STA. 1126+25 TO STA. 1127+35



EXISTING TYPICAL SECTION

STA. 1065+15 TO STA. 1068+09
STA. 1068+61 TO STA. 1071+45
STA. 1120+00 TO STA. 1123+34
STA. 1123+76 TO STA. 1126+25

* STA. 1067+02 TO STA. 1069+67

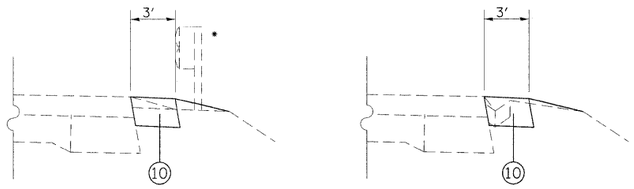


PROPOSED WIDENING FOR STAGE I CONSTRUCTION

STA. 1064+98 TO STA. 1071+45
STA. 1120+00 TO STA. 1126+25

STA. 1126+25 TO STA. 1127+35

* STA. 1067+02 TO STA. 1069+67
STA. 1122+10 TO STA. 1124+78



PROPOSED WIDENING FOR STAGE II CONSTRUCTION

STA. 1065+15 TO STA. 1071+45
STA. 1122+40 TO STA. 1122+86 (BITUMINOUS RAMP)
STA. 1124+45 TO STA. 1125+22 (BITUMINOUS RAMP)
STA. 1125+22 TO STA. 1126+23

STA. 1126+25 TO STA. 1127+35

* STA. 1067+02 TO STA. 1069+67
STA. 1122+32 TO STA. 1124+99

LEGEND

(1) EXISTING PCC PAVEMENT - 9″-6″-9″
(2) EXISTING BITUMINOUS SURFACE - ±5″
(3) EXISTING WIDENING - 9″
(4) EXISTING AGGREGATE SHOULDER
(5) EXISTING TYPE B GUTTER
(6) EXISTING GUARDRAIL
(7) PROPOSED HOT-MIX ASPHALT SHOULDER (VARIES)
(8) PROPOSED HOT-MIX ASPHALT BINDER COURSE (VARIES)
(9) PROPOSED HOT-MIX ASPHALT SURFACE COURSE - 1 1/2 ″
(10) PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING - 9″
(11) PROPOSED GUARDRAIL

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		DRAWN -	REVISED -
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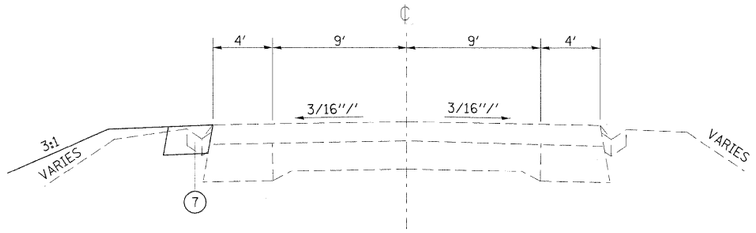
	PLOT DATE = 12/10/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND STAGING TYPICAL SECTIONS

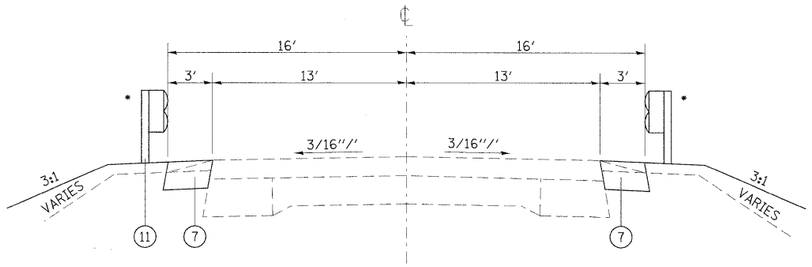
SCALE: | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	5
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PROPOSED TYPICAL SECTION

STA. 1064+98 TO STA. 1065+15

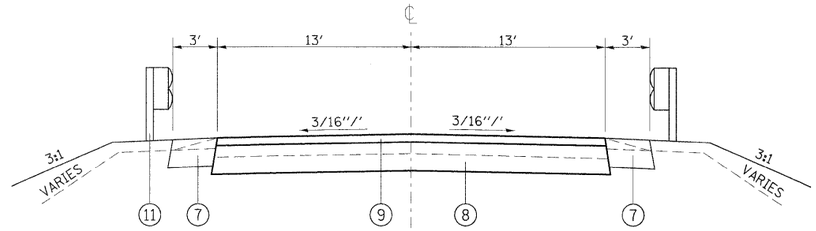


PROPOSED TYPICAL SECTION

- STA. 1066+51.5 TO STA. 1067+87 LT
  STA. 1068+83 TO STA. 1071+18.5 LT
  STA. 1065+51.5 TO STA. 1067+87 RT
  STA. 1068+03 TO STA. 1070+18.5 RT

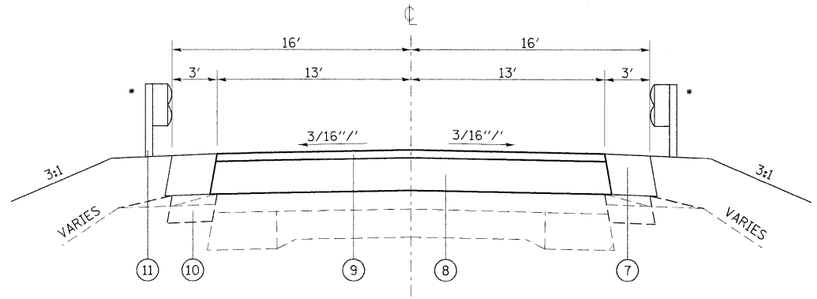
PROPOSED TYPICAL SECTION

STA. 1065+15 TO STA. 1067+87
STA. 1068+83 TO STA. 1071+45
STA. 1120+00 TO STA. 1120+50



PROPOSED TYPICAL SECTION

STA. 1067+87 TO STA. 1068+83



- STA. 1121+39.5 TO STA. 1123+07.5 LT
  STA. 1123+94.5 TO STA. 1126+12.5 LT
  STA. 1120+54.5 TO STA. 1123+22.5 RT
  STA. 1124+09.5 TO STA. 1125+77.5 RT

PROPOSED TYPICAL SECTION

STA. 1120+50 TO STA. 1122+79

STA. 1124+38 TO STA. 1127+00

LEGEND

(1) EXISTING PCC PAVEMENT - 9″-6″-9″
(2) EXISTING BITUMINOUS SURFACE - ±5″
(3) EXISTING WIDENING - 9″
(4) EXISTING AGGREGATE SHOULDER
(5) EXISTING TYPE B GUTTER
(6) EXISTING GUARDRAIL
(7) PROPOSED HOT-MIX ASPHALT SHOULDER (VARIES)
(8) PROPOSED HOT-MIX ASPHALT BINDER COURSE (VARIES)
(9) PROPOSED HOT-MIX ASPHALT SURFACE COURSE - 1 1/2 ″
(10) PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING - 9″
(11) PROPOSED GUARDRAIL

- STA. 1066+51.5 TO STA. 1067+87 LT
  STA. 1068+83 TO STA. 1071+18.5 LT
  STA. 1065+51.5 TO STA. 1067+87 RT
  STA. 1068+03 TO STA. 1070+18.5 RT

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		DRAWN -	REVISED -
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	PLOT DATE = 12/10/2008	DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	6
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHOULDER & PAVEMENT SCHEDULE

LOCATION	PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	GUTTER REMOVAL	HOT-MIX ASPHALT BASE COURSE WIDENING, 9"	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	HOT-MIX ASPHALT BINDER COURSE	HOT-MIX ASPHALT SURFACE COURSE	HOT-MIX ASPHALT SHOULDERS, 9"	CLASS SI CONCRETE (OUTLET)
STATION TO STATION	SQ YD	SQ YD	FOOT	SQ YD	TON	TON	TON	TON	SQ YD	CU YD
SN 031-2012										
STA 1065+00 TO STA 1066+00				61.6						
STA 1066+00 TO STA 1067+00				66.7						
STA 1067+00 TO STA 1068+00	37.6			60.7	0.02	0.08	27.3	3.2		
STA 1068+00 TO STA 1069+00	92.4			13.9	0.08	0.42	174.7	20.1		
STA 1069+00 TO STA 1070+00				66.7						
STA 1070+00 TO STA 1071+00				66.7						
STA 1071+00 TO STA 1072+00				26.7						
SN 031-0042										
STA 1120+00 TO STA 1121+00		288.8		66.8	0.08	0.43		24.3	66.7	
STA 1121+00 TO STA 1122+00		114.1		66.8	0.09	0.43	73.5	24.3	66.7	
STA 1122+00 TO STA 1123+00				81.2	0.07	0.35	96.7	19.1	52.6	
STA 1123+00 TO STA 1124+00	127.2			19.5						
STA 1124+00 TO STA 1125+00	5.8			71.3	0.06	0.28	120.2	14.9	41.3	
STA 1125+00 TO STA 1126+00				74.1	0.09	0.43	193.8	24.3	66.7	
STA 1126+00 TO STA 1127+00		77.0	175	33.3	0.08	0.43	148.8	24.3	66.7	8.2
STA 1127+00 TO STA 1128+00		101.1	70		0.03	0.15		8.5	23.3	2.8
TOTAL	263	581	245	776	0.6	3	835	163	384	11

PAVEMENT MARKING SCHEDULE

LOCATION	PAVEMENT MARKING REMOVAL			SHORT-TERM PAVEMENT MARKING	WORK ZONE PAVEMENT MARKING REMOVAL	THERMOPLASTIC PAVEMENT MARKING -4"			POLYUREA PAVEMENT MARKING TYPE I-LINE 4"			RAISED REFLECTIVE PAVEMENT MARKER PEMOVAL	RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	REPLACEMENT REFLECTOR
	YELLOW		WHITE			YELLOW		WHITE	YELLOW		WHITE				
STATION TO STATION	SKIP-DASH SQ FT	SOLID SQ FT	SOLID SQ FT	FOOT	SQ FT	SKIP-DASH FOOT	SOLID FOOT	SOLID FOOT	SKIP-DASH FOOT	SOLID FOOT	SOLID FOOT	EACH	EACH	EACH	EACH
SN 031-2012															
STA 1064+00 TO STA. 1065+00	1.9		15.3	12	4.0	5.8		46				1			1
STA 1065+00 TO STA. 1066+00	8.3		66.7	16	5.3	25		200				1			1
STA 1066+00 TO STA. 1067+00	8.3		66.7	16	5.3	25		200				1			1
STA 1067+00 TO STA. 1068+00	8.3		66.7	20	6.7	25		200					1		
STA 1068+00 TO STA. 1069+00	8.3		66.7	16	5.3	25		200							
STA 1069+00 TO STA. 1070+00	8.3		66.7	16	5.3	25		200				1			1
STA 1070+00 TO STA. 1071+00	8.3		66.7	16	5.3	25		200				1			1
STA 1071+00 TO STA. 1072+00	7.3		58.1	16	5.3	21.7		174				1			1
SN 031-0042															
STA 1119+00 TO STA. 1120+00	5.2	20.8	41.7	12	4.0	15.6	62.5	125				1	1		
STA 1120+00 TO STA. 1121+00	8.3	33.3	66.7	16	5.3	25	100	200				1	1		
STA 1121+00 TO STA. 1122+00	8.3	33.3	66.7	16	5.3	25	100	200				1	1		
STA 1122+00 TO STA. 1123+00	5.7	34.1	56.7	20	6.7	16.9	102	170		30.0	30.0		1	1	
STA 1123+00 TO STA. 1124+00				16	5.3				24.5	102.5	200.0			1	
STA 1124+00 TO STA. 1125+00	5.8	22.7	45.3	16	5.3	17	68	136	8.0	32.0	64.0		1		
STA 1125+00 TO STA. 1126+00	8.3	33.3	66.7	20	6.7	25	100	200					1		
STA 1126+00 TO STA. 1127+00	8.3	33.3	66.7	16	5.3	25	100	200				2	2		
STA 1127+00 TO STA. 1128+00	8.2	32.7	65.3	16	5.3	24.5	98	196				1	1		
SUBTOTAL	117.1	243.5	949.4			351.5	730.5	2847	32.5	164.5	294.0				
TOTAL	1310			276	92	3929			491			12	10	2	6

REPLACEMENT REFLECTORS (REMOVED DURING STAGE CONSTRUCTION) ARE FROM STOP BAR TO STOP BAR.

RAISED REFLECTIVE PAVEMENT MARKER REMOVAL REQUIRES ONLY THE REFLECTORS TO BE REMOVED.

EARTHWORK SCHEDULE

LOCATION STATION TO STATION	EARTH EXCAVATION CU YD	FURNISHED EXCAVATION CU YD
SN 031-2012		
STA 1064+50 TO STA 1065+00	0.3	4.9
STA 1065+00 TO STA 1065+50	2.1	71.6
STA 1065+50 TO STA 1066+00	4.1	148
STA 1066+00 TO STA 1066+50	3.8	184.2
STA 1066+50 TO STA 1067+00	2.9	197.8
STA 1067+00 TO STA 1067+50	2.1	215.1
STA 1067+50 TO STA 1067+90	0.9	197.6
STA 1067+90 TO STA 1068+09	0.4	96.3
BRIDGE OMISSION		
STA 1068+60 TO STA 1068+75	0.3	80.2
STA 1068+75 TO STA 1069+00	0.6	96.3
STA 1069+00 TO STA 1069+50	2.2	115.5
STA 1069+50 TO STA 1070+00	2.8	128.7
STA 1070+00 TO STA 1070+50	2.7	121.6
STA 1070+50 TO STA 1071+00	2.9	59.7
STA 1071+00 TO STA 1071+50	5.0	8.2
STA 1071+50 TO STA 1072+00	12.8	-9.1
STA 1072+00 TO STA 1072+50	9.4	-6.9
SN 031-0042		
STA 1119+50 TO STA 1120+00	2.2	1.3
STA 1120+00 TO STA 1120+50	4.2	21.5
STA 1120+50 TO STA 1121+00	3.4	54.4
STA 1121+00 TO STA 1121+50	2.2	91
STA 1121+50 TO STA 1122+00	0.9	128.3
STA 1122+00 TO STA 1122+50	0.0	168.3
STA 1122+50 TO STA 1123+00	0.0	258.3
STA 1123+00 TO STA 1123+30	0.0	193.8
BRIDGE OMISSION		
STA 1123+80 TO STA 1124+00	0.0	177.1
STA 1124+00 TO STA 1124+50	0.0	418.4
STA 1124+50 TO STA 1125+00	0.0	355.0
STA 1125+00 TO STA 1125+50	0.0	252.6
STA 1125+50 TO STA 1126+00	0.1	102.4
STA 1126+00 TO STA 1126+50	8.4	4.6
STA 1126+50 TO STA 1127+00	8.3	-1.7
TOTAL	85	3935

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	PLOT DATE = 12/10/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	7
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EROSION CONTROL SCHEDULE

LOCATION	PERIMETER EROSION BARRIER	TEMPORARY EROSION CONTROL SEEDING
QUADRANT	FOOT	POUND
SN 031-2012		
NORTHWEST	331	40.3
NORTHEAST	429	34.4
SOUTHWEST	434	36.1
SOUTHEAST	379	29.2
SN 031-0042		
NORTHWEST	379	28.8
NORTHEAST	415	25.8
SOUTHWEST	403	26.8
SOUTHEAST	408	28.6
TOTAL	3178	250

TREE REMOVAL SCHEDULE

LOCATION	TREE REMOVAL
QUADRANT	ACRE
SN 031-2012	
NORTHWEST	0.03
NORTHEAST	0.05
SOUTHWEST	0.06
SOUTHEAST	0.05
SN 031-0042	
NORTHWEST	0.01
NORTHEAST	0.02
SOUTHWEST	0.01
SOUTHEAST	0.02
TOTAL	0.25

STAGING SCHEDULE

LOCATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	TEMPORARY PAVEMENT MARKING - LINE 6"	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE)	IMPACT ATTENUATOR, RELOCATE (NON-REDIRECTIVE)	TEMPORARY BRIDGE TRAFFIC SIGNALS	TEMPORARY RUMBLE STRIP
	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH
SN 031-2012			375			1	6
STAGE I		350		2			
STAGE II	375				2		
SN 031-0042			537.5			1	6
STAGE I	537.5			2			
STAGE II		512.5			2		
TOTAL	912.5	862.5	912.5	4	4	2	12

GUARDRAIL SCHEDULE

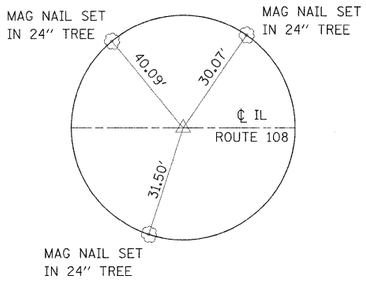
LOCATION	GUARDRAIL REMOVAL	STEEL PLATE BEAM GUARDRAIL, TYPE A	STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURE	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 1	TRAFFIC BARRIER TERMINAL, TYPE 6	GUARDRAIL MARKERS, TYPE A	BARRIER WALL MARKERS, TYPE B	BARRIER WALL MARKERS, TYPE C	TERMINAL MARKERS - DIRECT APPLIED
	FOOT	FOOT		EACH	EACH	EACH	EACH	EACH	EACH	EACH
SN 031-2012										
NW QUADRANT	57.9	112.5			1					
NE QUADRANT	57.4	200			1					
SW QUADRANT	57.7	200			1					
SE QUADRANT	57.0	112.5			1					
EASTBOUND			42				5			
WESTBOUND			42				5			
SN 031-0042										
NW QUADRANT	65.7	75			1	1				
NE QUADRANT	60.5	125		1		1				1
SW QUADRANT	59.7	175			1	1				
SE QUADRANT	66.1	75			1	1				
EASTBOUND							6	1	1	
WESTBOUND							5	1	1	
TOTAL	482	1075	84	1	7	4	21	2	2	1

RIGHT-OF-WAY MARKERS SCHEDULE

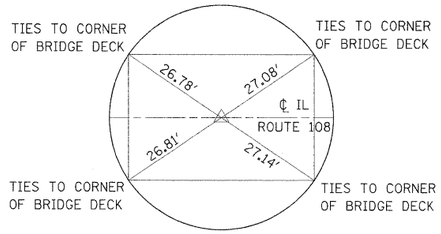
LOCATION	LT OR RT	OFFSET DISTANCE	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	DRAINAGE MARKERS	PERMANENT SURVEY MARKERS
STATION		FOOT	EACH	EACH	EACH
STA. 1059+07.88					1
STA. 1063+91.34	LT	39.63	1		
STA. 1063+92.84	RT	40.37	1		
STA. 1065+50.00	LT	54.67	1		
STA. 1065+50.00	RT	55.33	1		
STA. 1068+15.00	RT	55.25	1		
STA. 1068+15.00	RT	85.25		1	
STA. 1068+35.00					1
STA. 1069+05.00	RT	55.23	1		
STA. 1069+05.00	RT	85.23		1	
STA. 1070+50.00	LT	54.81	1		
STA. 1070+50.00	RT	55.19	1		
STA. 1071+98.43	LT	39.85	1		
STA. 1071+98.46	RT	40.15	1		
STA. 1076+10.40					1
STA. 1115+55.99					1
STA. 1116+66.09	RT	39.95	1		
STA. 1121+00.00	RT	39.97	1		
STA. 1121+00.00	LT	40.03	1		
STA. 1122+50.00	RT	49.98	1		
STA. 1122+50.00	LT	50.02	1		
STA. 1123+55.00					1
STA. 1125+00.00	RT	49.99	1		
STA. 1125+00.00	LT	50.01	1		
STA. 1126+50.00	LT	40.00	1		
STA. 1126+50.00	RT	40.00	1		
STA. 1129+70.82	LT	39.99	1		
STA. 1131+23.92					1
EX 1			1		
EX 2			1		
TOTAL			22	2	6

BENCH MARK 104: CHISELED "□" ON TOP OF NW WINGWALL OF IL RT 108 BRIDGE (SN: 031-0026) OVER TAYLOR CREEK BRANCH, LOCATED ±0.55 MILE WEST OF RT 267.
APPROX. STA. = 1123+20, 18' LT., ELEV. 514.757

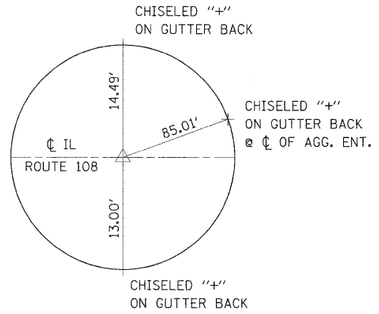
BENCH MARK 106 RR SPIKE FOUND IN POWER POLE, LOCATED ON THE SOUTH SIDE OF IL RT 108, ±460' EAST OF RT 108 BRIDGE (SN:031-0024) OVER TAYLOR CREEK
APPROX. STA. = 1072+93, 38' RT., ELEV. 534.801



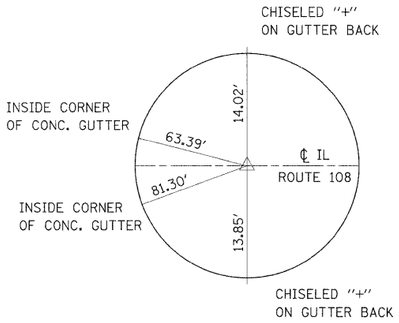
TIE POINT
SN 031-0024
MAG NAIL
℄ STA 1059+07.88



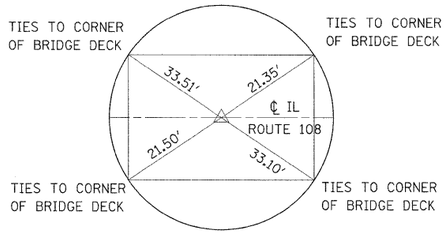
TIE POINT
SN 031-0024
MAG NAIL
BRIDGE ℄ STA 1068+35.00



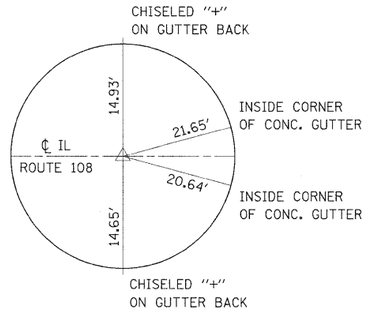
TIE POINT
SN 031-0024
MAG NAIL
℄ STA 1076+10.40



TIE POINT
SN 031-0026
MAG NAIL
℄ STA 1115+55.99



TIE POINT
SN 031-0026
MAG NAIL
BRIDGE ℄ STA 1123+55.00



TIE POINT
SN 031-0026
MAG NAIL
℄ STA 1131+23.92

NOTES: ALL TIES PULLED DIRECT
NOT TO SCALE

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	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 12/10/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TIE POINTS AND BENCHMARKS

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	9
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER ILR10, ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY ON MAY 30, 2003 FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES. THIS PLAN HAS ALSO BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF NPDES PERMIT NUMBER ILR40 FOR DISCHARGES FROM SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS IF CHECKED BELOW.

NPDES PERMITS ASSOCIATED WITH THIS PROJECT:

☐ ILR10
☒ ILR40 PERMIT NO. 0493

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.

MARY C. LAMIE
PRINT NAME

Mary C Lamie
SIGNATURE

DEPUTY DIRECTOR OF HIGHWAYS
REGION FIVE ENGINEER
TITLE

12/11/08
DATE

IL DEPT. OF TRANSPORTATION
AGENCY

I. SITE DESCRIPTION:

A. THE FOLLOWING IS A DESCRIPTION OF THE PROJECT LOCATION:

THE PROJECT CONSISTS OF THE REPLACEMENT OF TWO STRUCTURES CARRYING IL ROUTE 108 OVER BRANCHES OF TAYLOR CREEK.

B. THE FOLLOWING IS A DESCRIPTION OF THE CONSTRUCTION ACTIVITY WHICH IS THE SUBJECT OF THIS PLAN:

CONSTRUCTION INCLUDES STRUCTURE REPLACEMENTS, A PROFILE GRADE CHANGE, HMA SHOULDERS, GUARDRAIL, TYPE B GUTTER, EARTH EXCAVATION AND EMBANKMENT, RIPRAP, TREE REMOVAL, AND ALL INCIDENTAL AND COLLATERAL WORK NECESSARY TO COMPLETE THE PROJECT AS SHOWN ON THE PLANS.

C. THE FOLLOWING IS A DESCRIPTION OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE. SUCH AS GRUBBING, EXCAVATION AND GRADING:

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

ROADWAY WILL BE OPEN DURING CONSTRUCTION THROUGH STAGE CONSTRUCTION.

1. TREE REMOVAL WITHIN CONSTRUCTION LIMITS DUE TO PROPOSED EMBANKMENT FOR HMA SHOULDERS AND GUARDRAIL PLACEMENT, TREES TO REMAIN WILL BE PROTECTED AGAINST DAMAGD.
2. EXCAVATION AND EMBANKMENT TO GRADE OUT FOR PROPOSED SHOULDERS, GUARDRAIL AND DITCHES.
3. RIPRAP PLACEMENT AT STRUCTURES.
4. PLACEMENT, MAINTENANCE, REMOVAL AND PROPER CLEAN-UP OF TEMPORARY EROSION CONTROL, SUCH AS PERIMETER EROSION BARRIER, TEMPORARY DITCH CHECKS, TEMPORARY SEEDING, ETC.
5. FINAL GRADING, PAVING, AND OTHER MISCELLANEOUS ITEMS.
6. PLACEMENT OF PERMANENT EROSION CONTROL, SUCH AS EROSION CONTROL BLANKET, SEEDING, ETC.

D. THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 2.6 ACRES.

THE TOTAL AREA OF THE SITE THAT IS ESTIMATED WILL BE DISTURBED BY EXCAVATION, GRADING OR OTHER ACTIVITIES IS 2.3 ACRES.

E. THE FOLLOWING IS A WEIGHTED AVERAGE OF THE RUNOFF COEFFICIENT FOR THIS PROJECT AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED: 0.52

F. THE FOLLOWING IS A DESCRIPTION OF THE SOIL TYPES FOUND AT THE PROJECT SITE FOLLOWED BY INFORMATION REGARDING THEIR EROSIVITY:

ONE SOIL TYPE IS LOCATED WITHIN THE PROJECT AREA OF THE IL ROUTE 108 BRIDGE REPLACEMENTS OVER BOTH TAYLOR CREEK BRANCHES. THESE ARE:

LAWSON SILT LOAM (451) - A SOMEWHAT POORLY DRAINED SOIL WITH MODERATE PERMEABILITY. THIS SOIL IS FREQUENT FLOODED WITH SLOPES THAT ARE BETWEEN ZERO AND TWO PERCENT. THIS SOIL HAS A LOW SUSCEPTIBILITY TO WATER AND WIND EROSION.

G. THE FOLLOWING IS A DESCRIPTION OF POTENTIALLY EROSIVE AREAS ASSOCIATED WITH THIS PROJECT:

THERE ARE TWO POTENTIALLY CRITICAL EROSIVE AREAS. THE FIRST IS BETWEEN STATION 1067+50 AND STATION 1068+10 ON EITHER SIDE OF IL ROUTE 108. THE SECOND IS BETWEEN STATION 1056+00 AND STATION 1069+00 ON THE EITHER SIDE OF IL ROUTE 108. BOTH AREAS INVOLVES LAWSON SILT LOAM (451).

H. THE FOLLOWING IS A DESCRIPTION OF SOIL DISTURBING ACTIVITIES, THEIR LOCATIONS, AND THEIR EROSIVE FACTORS (E.G. STEEPNESS OF SLOPES, LENGTH OF SLOPES, ETC):

THE PURPOSE OF LAND DISTURBING ACTIVITIES ON THIS PROJECT IS TO REMOVE AND REPLACE THE IL ROUTE 108 BRIDGES OVER TAYLOR CREEK BRANCHES (PROPOSED STRUCTURES NO. 031-2012 & 031-0042, EXISTING STRUCTURES 031-0024 & 031-0026, RESPECTIVELY), AND THE RECONSTRUCTION OF GUARDRAIL AND SIDE SLOPES

THE ONLY SOIL TYPE IN THE PROJECT AREA IS LAWSON SILT LOAM (451). IT HAS A LOW SUSCEPTIBILITY TO WIND AND WATER EROSION WITH SLOPES BETWEEN ZERO AND TWO PERCENT. THE TWO POTENTIALLY EROSIVE AREAS LISTED ABOVE HAVE SIDE SLOPES OF 1:2.5 (V:H).

I. SEE THE EROSION CONTROL PLANS AND/OR DRAINAGE PLANS FOR THIS CONTRACT FOR INFORMATION REGARDING DRAINAGE PATTERNS, APPROXIMATE SLOPES ANTICIPATED BEFORE AND AFTER MAJOR GRADING ACTIVITIES, LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AND CONTROLS TO PREVENT OFF SITE SEDIMENT TRACKING (TO BE ADDED AFTER CONTRACTOR IDENTIFIES LOCATIONS), AREAS OF SOIL DISTURBANCE, THE LOCATION OF MAJOR STRUCTURAL AND NON-STRUCTURAL CONTROLS IDENTIFIED IN THE PLAN, THE LOCATION OF AREAS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR, SURFACE WATERS (INCLUDING WETLANDS) AND LOCATIONS WHERE STORM WATER IS DISCHARGED TO SURFACE WATER INCLUDING WETLANDS.

J. THE FOLLOWING IS A LIST OF RECEIVING WATER(S) AND THE ULTIMATE RECEIVING WATERS(S), AND AERIAL EXTENT OF WETLAND ACREAGE AT THE SITE. THE LOCATION OF THE RECEIVING WATERS CAN BE FOUND ON THE EROSION AND SEDIMENT CONTROL PLANS:

TAYLOR CREEK BRANCH

WETLAND: SITE 1 (SN 061-0042) - 30' SOUTH OF IL 108, 30 EAST OF TAYLOR CREEK BRANCH
(0.04 ACRE TOTAL, 0.006 ACRE WITHIN PROJECT CORRIDOR)

K. THE FOLLOWING POLLUTANTS OF CONCERN WILL BE ASSOCIATED WITH THIS CONSTRUCTION PROJECT: (CHECK ALL THAT APPLY)

☒ SOIL SEDIMENT	☐ PETROLEUM (GAS, DIESEL, OIL, KEROSENE, HYDRAULIC OIL/FLUIDS)
☒ CONCRETE	☐ ANTIFREEZE / COOLANTS
☒ CONCRETE TRUCK WASTE	☒ WASTE WATER FROM CLEANING CONSTRUCTION EQUIPMENT
☒ CONCRETE CURING COMPOUNDS	☐ OTHER (SPECIFY)_____
☐ SOLID WASTE DEBRIS	☐ OTHER (SPECIFY)_____
☐ PAINTS	☐ OTHER (SPECIFY)_____
☐ SOLVENTS	☐ OTHER (SPECIFY)_____
☐ FERTILIZERS / PESTICIDES	☐ OTHER (SPECIFY)_____

II. CONTROLS

THIS SECTION OF THE PLAN ADDRESSES THE CONTROLS THAT WILL BE IMPLEMENTED FOR EACH OF THE MAJOR CONSTRUCTION ACTIVITIES DESCRIBED IN I.C. ABOVE AND FOR ALL USE AREAS, BORROW SITES, AND WASTE SITES. FOR EACH MEASURE DISCUSSED, THE CONTRACTOR WILL BE RESPONSIBLE FOR ITS IMPLEMENTATION AS INDICATED. THE CONTRACTOR SHALL PROVIDE TO THE RESIDENT ENGINEER A PLAN FOR THE IMPLEMENTATION OF THE MEASURES INDICATED. THE CONTRACTOR, AND SUBCONTRACTORS, WILL NOTIFY THE RESIDENT ENGINEER OF ANY PROPOSED CHANGES, MAINTENANCE, OR MODIFICATIONS TO KEEP CONSTRUCTION ACTIVITIES COMPLIANT WITH THE PERMIT. EACH SUCH CONTRACTOR HAS SIGNED THE REQUIRED CERTIFICATION ON FORMS WHICH WILL BE PROVIDED AT THE PRE-CONSTRUCTION CONFERENCE, AND ARE A PART OF, THIS PLAN:

A. EROSION AND SEDIMENT CONTROL

1. STABILIZED PRACTICES: PROVIDED BELOW IS A DESCRIPTION OF INTERIM AND PERMANENT STABILIZATION PRACTICES, INCLUDING SITE SPECIFIC SCHEDULING OF THE IMPLEMENTATION OF THE PRACTICES. SITE PLANS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES MAY INCLUDE BUT ARE NOT LIMITED TO: TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, GEOTEXTILES, SODDING, VEGETATIVE BUFFER STRIPS, PROTECTION OF TREES, PRESERVATION OF MATURE VEGETATION, AND OTHER APPROPRIATE MEASURES. EXCEPT AS PROVIDED BELOW IN II(A)(1)(a) AND II(A)(3), 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 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASES ON ALL DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION WILL NOT OCCUR FOR A PERIOD OF 21 OR MORE CALENDAR DAYS

a. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE THEREAFTER.

THE FOLLOWING STABILIZATION PRACTICES WILL BE USED FOR THIS PROJECT: (CHECK ALL THAT APPLY)

☐ PRESERVATION OF MATURE VEGETATION	☒ EROSION CONTROL BLANKET / MULCHING
☐ VEGETATED BUFFER STRIPS	☐ SODDING
☒ PROTECTION OF TREES	☐ GEOTEXTILES
☒ TEMPORARY EROSION CONTROL SEEDING	☐ OTHER (SPECIFY)_____
☐ TEMPORARY TURF (SEEDING, CLASS 7)	☐ OTHER (SPECIFY)_____
☐ TEMPORARY MULCHING	☐ OTHER (SPECIFY)_____
☒ PERMANENT SEEDING	☐ OTHER (SPECIFY)_____

DESCRIBE HOW THE STABILIZATION PRACTICES LISTED ABOVE WILL BE UTILIZED:

1. TEMPORARY EROSION CONTROL SEEDING - THIS ITEM WILL BE APPLIED TO ALL BARE AREAS EVERY SEVEN DAYS TO MINIMIZE THE AMOUNT OF EXPOSED SURFACE AREAS.

   EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN 14 DAYS.

   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.

   BARE AND SPARSELY VEGETATED GROUND IN HIGHLY ERODIBLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDED AT THE BEGINNING OF CONSTRUCTION WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN 7 DAYS.

2. PERMANENT SEEDING - SEEDING, CLASS 2 WILL BE INSTALLED PER IDOT SPECIFICATIONS.
3. EROSION CONTROL BLANKETS/MULCHING - EROSION CONTROL BLANKETS WILL BE INSTALLED OVER FILL SLOPES OF 1:2 (V:H) OR STEEPER AND IN HIGH VELOCITY AREAS (I.E. DITCHES) THAT HAVE BEEN BROUGHT TO FINAL GRADE AND SEEDED TO PROTECT SLOPES FROM EROSION AND ALLOW SEEDS TO GERMINATE. MULCH, METHOD 2 WILL BE APPLIED IN RELATIVELY FLAT AREAS TO PROTECT THE DISTURBED AREAS AND PREVENT FURTHER EROSION.

   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.

4. PROTECTION OF TREES/TEMPORARY TREE PROTECTION - THIS ITEM SHALL CONSIST OF ITEMS "TEMPORARY FENCING" AND "TREE TRUCK PROTECTION" AS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER AND IN ACCORDANCE WITH ARTICLE 201.05 OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

PERMANENT STABILIZATION - ALL AREAS DISTURBED BY CONSTRUCTION WILL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING THE FINISHED GRADING. EROSION CONTROL BLANKETS WILL BE INSTALLED OVER FILL SLOPES WHICH HAVE BEEN BROUGHT TO FINAL GRADE AND HAVE BEEN SEEDED TO PROTECT THE SLOPES FROM RILL AND GULLY EROSION AND ALLOW SEED TO GERMINATE PROPERLY. MULCH, METHOD 2 WILL BE USED ON RELATIVELY FLAT AREAS.

2. STRUCTURAL PRACTICES: PROVIDED BELOW IS A DESCRIPTION OF STRUCTURAL PRACTICES THAT WILL BE IMPLEMENTED, TO THE DEGREE ATTAINABLE, TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SUCH PRACTICES MAY INCLUDE BUT ARE NOT LIMITED TO: PERIMETER EROSION BARRIER, EARTH DIKES, DRAINAGE SWALES, SEDIMENT TRAPS, DITCH CHECKS, SUBSURFACE DRAINS, PIPE SLOPE DRAINS, LEVEL SPREADERS, STORM DRAIN INLET PROTECTION, ROCK OUTLET PROTECTION, REINFORCED SOIL RETAINING SYSTEMS, GABIONS, AND TEMPORARY OR PERMANENT SEDIMENT BASINS. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT.

THE FOLLOWING STRUCTURAL PRACTICES WILL BE USED FOR THIS PROJECT:(CHECK ALL THAT APPLY)

☒ PERIMETER EROSION BARRIER	☐ ROCK OUTLET PROTECTION
☐ TEMPORARY DITCH CHECK	☒ RIPRAP
☐ STORM DRAIN INLET PROTECTION	☐ GABIONS
☐ SEDIMENT TRAP	☐ SLOPE MATTRESS
☐ TEMPORARY PIPE SLOPE DRAIN	☐ RETAINING WALLS
☐ TEMPORARY SEDIMENT BASIN	☐ SLOPE WALLS
☐ TEMPORARY STREAM CROSSING	☐ CONCRETE REVETMENT MATS
☐ STABILIZED CONSTRUCTION EXITS	☐ LEVEL SPREADERS
☐ TURF REINFORCEMENT MATS	☐ OTHER (SPECIFY)_____
☐ PERMANENT CHECK DAMS	☐ OTHER (SPECIFY)_____
☐ PERMANENT SEDIMENT BASIN	☐ OTHER (SPECIFY)_____
☐ AGGREGATE DITCH	☐ OTHER (SPECIFY)_____
☐ PAVED DITCH	☐ OTHER (SPECIFY)_____

DESCRIBE HOW THE STRUCTURAL PRACTICES LISTED ABOVE WILL BE UTILIZED:

1. PERIMETER EROSION BARRIER - SILT FENCES WILL BE PLACED ALONG THE BANKS OF THE TAYLOR CREEK BRANCHES, ALONG THE LIMITS OF CONSTRUCTION AND ALONG THE WETLAND AREA DESCRIBED IN THE PERTINENT INFORMATION SECTION IN AN EFFORT TO CONTAIN SILT AND RUNOFF FROM LEAVING THE SITE.

   CONSTRUCT AT BEGINNING OF CONSTRUCTION. REMOVE AT END OF CONSTRUCTION.

2. TEMPORARY DITCH CHECKS, AGGREGATE USES GRADING NO. 3- REMOVE AT END OF CONSTRUCTION.

   STRAW BALES, HAY BALES, PERIMETER EROSION BARRIER AND SILT FENCE WILL NOT BE PERMITTED FOR TEMPORARY OR PERMANENT DITCH CHECKS. DITCH CHECKS SHALL BE COMPOSED OF AGGREGATE (IF SPECIFIED), ENVIROBERM, TRIANGULAR SILT DIKES, GEORIDGE AND ROLLED EXCELSIOR.

3. RIPRAP - STONE RIPRAP WITH FILTER FABRIC WILL BE USED AS PROTECTION AT THE DISCHARGE END OF ALL GUTTER OUTLETS TO PREVENT DOWNSTREAM EROSION.

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.

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.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	10
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

3. STORM WATER MANAGEMENT: PROVIDED BELOW IS A DESCRIPTION OF MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT.

   a. SUCH PRACTICES MAY INCLUDE BUT ARE NOT LIMITED TO: STORM WATER DETENTION STRUCTURES (INCLUDING WET PONDS), STORM WATER RETENTION STRUCTURES, FLOW ATTENUATION BY USE OF OPEN VEGETATED SWALES AND NATURAL DEPRESSIONS, INFILTRATION OF RUNOFF ON SITE, AND SEQUENTIAL SYSTEMS (WHICH COMBINE SEVERAL PRACTICES). THE PRACTICES SELECTED FOR IMPLEMENTATION WERE DETERMINED ON THE BASIS OF THE TECHNICAL GUIDANCE IN SECTION 59-8 (EROSION AND SEDIMENT CONTROL) IN CHAPTER 59 (LANDSCAPE DESIGN AND EROSION CONTROL) OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION BUREAU OF DESIGN AND ENVIRONMENT MANUAL. IF PRACTICES OTHER THAN THOSE DISCUSSED IN SECTION 59-8 ARE SELECTED FOR IMPLEMENTATION OR IF PRACTICES ARE APPLIED TO SITUATIONS DIFFERENT FROM THOSE COVERED IN SECTION 59-8, THE TECHNICAL BASIS FOR SUCH DECISIONS WILL BE EXPLAINED BELOW.

   b. VELOCITY DISSIPATION DEVICES WILL BE PLACED AT DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL AS NECESSARY TO PROVIDE A NON-EROSIVE VELOCITY FLOW FROM THE STRUCTURE TO A WATER COURSE SO THAT THE NATURAL PHYSICAL AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS ARE MAINTAINED AND PROTECTED (E.G. MAINTENANCE OF HYDROLOGIC CONDITIONS SUCH AS THE HYDROPERIOD AND HYDRODYNAMICS PRESENT PRIOR TO THE INITIATION OF CONSTRUCTION ACTIVITIES).

   DESCRIPTION OF STORM WATER MANAGEMENT CONTROLS: N/A

4. OTHER CONTROLS:

   a. VEHICLE ENTRANCES AND EXITS - STABILIZED CONSTRUCTION ENTRANCES AND EXITS MUST BE CONSTRUCTED TO PREVENT TRACKING OF SEDIMENTS ONTO ROADWAYS.

      THE CONTRACTOR WILL PROVIDE THE RESIDENT ENGINEER WITH A WRITTEN PLAN IDENTIFYING THE LOCATION OF STABILIZED ENTRANCES AND EXITS AND THE PROCEDURES (S)HE WILL USE TO CONSTRUCT AND MAINTAIN THEM.

   b. MATERIAL DELIVERY, STORAGE, AND USE - THE FOLLOWING BMPS SHALL BE IMPLEMENTED TO HELP PREVENT DISCHARGES OF CONSTRUCTION MATERIALS DURING DELIVERY, STORAGE, AND USE:

      - ALL PRODUCTS DELIVERED TO THE PROJECT SITE MUST BE PROPERLY LABELED.
      - WATER TIGHT SHIPPING CONTAINERS AND/OR SEMI TRAILERS SHALL BE USED TO STORE HAND TOOLS, SMALL PARTS, AND MOST CONSTRUCTION MATERIALS THAT CAN BE CARRIED BY HAND, SUCH AS PAINT CANS, SOLVENTS, AND GREASE.
      - A STORAGE/CONTAINMENT FACILITY SHOULD BE CHOSEN FOR LARGER ITEMS SUCH AS DRUMS AND ITEMS SHIPPED OR STORED ON PALLETS. SUCH MATERIAL IS TO BE COVERED BY A TIN ROOF OR LARGE SHEETS OF PLASTIC TO PREVENT PRECIPITATION FROM COMING IN CONTACT WITH THE PRODUCTS BEING STORED.
      - LARGE ITEMS SUCH AS LIGHT STANDS, FRAMING MATERIALS AND LUMBER SHALL BE STORED IN THE OPEN IN A GENERAL STORAGE AREA. SUCH MATERIAL SHALL BE ELEVATED WITH WOOD BLOCKS TO MINIMIZE CONTACT WITH STORM WATER RUNOFF.
      - SPILL CLEAN-UP MATERIALS, MATERIAL SAFETY DATA SHEETS, AN INVENTORY OF MATERIALS, AND EMERGENCY CONTACT NUMBERS SHALL BE MAINTAINED AND STORED IN ONE DESIGNATED AREA AND EACH CONTRACTOR IS TO INFORM HIS/HER EMPLOYEES AND THE RESIDENT ENGINEER OF THIS LOCATION.

   c. STOCKPILE MANAGEMENT - BMPS SHALL BE IMPLEMENTED TO REDUCE OR ELIMINATE POLLUTION OF STORM WATER FROM STOCKPILES OF SOIL AND PAVING MATERIALS SUCH AS BUT NOT LIMITED TO PORTLAND CEMENT CONCRETE RUBBLE, ASPHALT CONCRETE, ASPHALT CONCRETE RUBBLE, AGGREGATE BASE, AGGREGATE SUB BASE, AND PRE-MIXED AGGREGATE. THE FOLLOWING BMPS MAY BE CONSIDERED:

      - PERIMETER EROSION BARRIER
      - TEMPORARY SEEDING
      - TEMPORARY MULCH
      - PLASTIC COVERS
      - SOIL BINDERS
      - STORM DRAIN INLET PROTECTION

      THE CONTRACTOR WILL PROVIDE THE RESIDENT ENGINEER WITH A WRITTEN PLAN OF THE PROCEDURES (S)HE WILL USE ON THE PROJECT AND HOW THEY WILL BE MAINTAINED.

   d. WASTE DISPOSAL. NO MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED INTO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

   e. THE PROVISIONS OF THIS PLAN SHALL ENSURE AND DEMONSTRATE COMPLIANCE WITH APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.

   f. THE CONTRACTOR SHALL PROVIDE A WRITTEN AND GRAPHIC PLAN TO THE RESIDENT ENGINEER IDENTIFYING WHERE EACH OF THE ABOVE AREAS WILL BE LOCATED AND HOW THEY ARE TO BE MANAGED.

5. APPROVED STATE OR LOCAL LAWS

   THE MANAGEMENT PRACTICES, CONTROLS AND PROVISIONS CONTAINED IN THIS PLAN WILL BE IN ACCORDANCE WITH IDOT SPECIFICATIONS, WHICH ARE AT LEAST AS PROTECTIVE AS THE REQUIREMENTS CONTAINED IN THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S ILLINOIS URBAN MANUAL, 1995. PROCEDURES AND REQUIREMENTS SPECIFIED IN APPLICABLE SEDIMENT AND EROSION SITE PLANS OR STORM WATER MANAGEMENT PLANS APPROVED BY LOCAL OFFICIALS SHALL BE DESCRIBED OR INCORPORATED BY REFERENCE IN THE SPACE PROVIDED BELOW. REQUIREMENTS SPECIFIED IN SEDIMENT AND EROSION SITE PLANS, SITE PERMITS, STORM WATER MANAGEMENT SITE PLANS OR SITE PERMITS APPROVED BY LOCAL OFFICIALS THAT ARE APPLICABLE TO PROTECTING SURFACE WATER RESOURCES ARE, UPON SUBMITTAL OF AN NOI, TO BE AUTHORIZED TO DISCHARGE UNDER PERMIT ILR10 INCORPORATED BY REFERENCE AND ARE ENFORCEABLE UNDER THIS PERMIT EVEN IF THEY ARE NOT SPECIFICALLY INCLUDED IN THE PLAN.

   DESCRIPTION OF PROCEDURES AND REQUIREMENTS SPECIFIED IN APPLICABLE SEDIMENT AND EROSION SITE PLANS OR STORM WATER MANAGEMENT PLANS APPROVED BY LOCAL OFFICIALS: N/A

III. MAINTENANCE:

   THE FOLLOWING IS A DESCRIPTION OF PROCEDURES THAT WILL BE USED TO MAINTAIN, IN GOOD AND EFFECTIVE OPERATING CONDITIONS, THE VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THIS PLAN.

   1. SEEDING - ALL ERODIBLE BARE EARTH WILL BE TEMPORARILY SEEDED ON A WEEKLY BASIS TO MINIMIZE THE AMOUNT OF ERODIBLE SURFACE WITHIN THE CONTRACT LIMITS.

   2. PERIMETER EROSION BARRIER - SEDIMENT WILL BE REMOVED IF THE INTEGRITY OF THE FENCING IS IN JEOPARDY AND ANY FENCING KNOCKED DOWN WILL BE REPAIRED IMMEDIATELY. THE COST OF THIS MAINTENANCE SHALL BE ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

   3. EROSION CONTROL BLANKET/MULCHING - ANY AREAS THAT FAIL WILL BE REPAIRED IMMEDIATELY.

   4. PROTECTION OF TREES/TEMPORARY TREE PROTECTION - ANY PROTECTIVE MEASURES WHICH ARE KNOCKED DOWN WILL BE REPAIRED IMMEDIATELY.

   5. DITCH CHECKS - SEDIMENT WILL BE REMOVED IF THE INTEGRITY OF THE DITCH CHECK IS IN JEOPARDY. ANY DITCH CHECKS WHICH FAIL WILL BE REPAIRED OR REPLACED IMMEDIATELY. THE COST OF THIS MAINTENANCE SHALL BE ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

      THE RESIDENT ENGINEER WILL PROVIDE MAINTENANCE GUIDES TO THE CONTRACTOR FOR THESE PRACTICES. ALL MAINTENANCE OF EROSION CONTROL SYSTEMS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL CONSTRUCTION IS COMPLETE AND ACCEPTED BY IDOT AFTER FINAL INSPECTION. ALL LOCATIONS WHERE VEHICLES ENTER AND EXIT THE CONSTRUCTION SITE AND ALL OTHER AREAS SUBJECT TO EROSION SHOULD ALSO BE INSPECTED PERIODICALLY.

      INSPECTION OF THESE AREAS SHALL BE MADE AT LEAST ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS OF THE END OF EACH 0.5 INCHES OR GREATER RAINFALL, OR AN EQUIVALENT SNOWFALL. 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.

      THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AFTER USE IS NO LONGER NEEDED. THE COST OF THIS REMOVAL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE TEMPORARY EROSION CONTROL SYSTEM.

IV. INSPECTIONS

   QUALIFIED PERSONNEL SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE WHICH HAVE NOT YET BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES AND EQUIPMENT ENTER AND EXIT THE SITE. SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER OR EQUIVALENT SNOWFALL.

   A. DISTURBED AREAS, USE AREAS (STORAGE OF MATERIALS, STOCKPILES, MACHINE MAINTENANCE FUELING, ETC.), BORROW SITES, AND WASTE SITES SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. DISCHARGE LOCATIONS OR POINTS THAT ARE ACCESSIBLE, SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF SITE SEDIMENT TRACKING.

   B. BASED ON THE RESULTS OF THE INSPECTION, THE DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IDENTIFIED IN SECTION I ABOVE AND POLLUTION PREVENTION MEASURES IDENTIFIED IN SECTION II ABOVE SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER SUCH INSPECTION. ANY CHANGES TO THIS PLAN RESULTING FROM THE REQUIRED INSPECTIONS SHALL BE IMPLEMENTED WITHIN 1/2 HOUR TO 1 WEEK BASED ON THE URGENCY OF THE SITUATION. THE RESIDENT ENGINEER WILL NOTIFY THE CONTRACTOR OF THE TIME REQUIRED TO IMPLEMENT SUCH ACTIONS THROUGH THE WEEKLY INSPECTION REPORT.

   C. A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THIS STORM WATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH SECTION IV(B) SHALL BE MADE AND RETAINED AS PART OF THE PLAN FOR AT LEAST THREE (3) YEARS AFTER THE DATE OF THE INSPECTION. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART VI. G OF THE GENERAL PERMIT.

   D. IF ANY VIOLATION OF THE PROVISIONS OF THIS PLAN IS IDENTIFIED DURING THE CONDUCT OF THE CONSTRUCTION WORK COVERED BY THIS PLAN, THE RESIDENT ENGINEER SHALL COMPLETE AND FILE AN "INCIDENCE OF NONCOMPLIANCE" (ION) REPORT FOR THE IDENTIFIED VIOLATION. THE RESIDENT ENGINEER SHALL USE FORMS PROVIDED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AND SHALL INCLUDE SPECIFIC INFORMATION ON THE CAUSE OF NONCOMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSES OF NONCOMPLIANCE, AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT WHICH MAY HAVE RESULTED FROM THE NONCOMPLIANCE. ALL REPORTS OF NONCOMPLIANCE SHALL BE SIGNED BY A RESPONSIBLE AUTHORITY IN ACCORDANCE WITH PART VI. G OF THE GENERAL PERMIT. THE INCIDENCE OF NONCOMPLIANCE SHALL BE MAILED TO THE FOLLOWING ADDRESS:

   ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
   DIVISION OF WATER POLLUTION CONTROL
   ATTN: COMPLIANCE ASSURANCE SECTION
   1021 NORTH GRAND EAST
   POST OFFICE BOX 19276
   SPRINGFIELD, ILLINOIS 62794-9276

V. NON-STORM WATER DISCHARGES:

   EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON-STORM WATER THAT IS COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH THE INDUSTRIAL ACTIVITY ADDRESSED IN THIS PLAN MUST BE DESCRIBED BELOW. APPROPRIATE POLLUTION PREVENTION MEASURES, AS DESCRIBED BELOW, WILL BE IMPLEMENTED FOR THE NON-STORM WATER COMPONENT(S) OF THE DISCHARGE.

   A. SPILL PREVENTION AND CONTROL - BMPS SHALL BE IMPLEMENTED TO CONTAIN AND CLEAN-UP SPILLS AND PREVENT MATERIAL DISCHARGES TO THE STORM DRAIN SYSTEM. THE CONTRACTOR SHALL PRODUCE A WRITTEN PLAN STATING HOW HIS/HER COMPANY WILL PREVENT, REPORT, AND CLEAN UP SPILLS AND PROVIDE A COPY TO ALL OF HIS/HER EMPLOYEES AND THE RESIDENT ENGINEER. THE CONTRACTOR SHALL NOTIFY ALL OF HIS/HER EMPLOYEES ON THE PROPER PROTOCOL FOR REPORTING SPILLS. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER OF ANY SPILLS IMMEDIATELY.

   B. CONCRETE RESIDUALS AND WASHOUT WASTES - THE FOLLOWING BMPS SHALL BE IMPLEMENTED TO CONTROL RESIDUAL CONCRETE, CONCRETE SEDIMENTS, AND RINSE WATER:

      1. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED FOR RINSING OUT CONCRETE TRUCKS. SIGNS SHALL BE INSTALLED DIRECTING CONCRETE TRUCK DRIVERS WHERE DESIGNATED WASHOUT FACILITIES ARE LOCATED.

      2. THE CONTRACTOR SHALL HAVE THE LOCATION OF TEMPORARY CONCRETE WASHOUT FACILITIES APPROVED BY THE RESIDENT ENGINEER.

      3. ALL TEMPORARY CONCRETE WASHOUT FACILITIES ARE TO BE INSPECTED BY THE CONTRACTOR AFTER EACH USE AND ALL SPILLS MUST BE REPORTED TO THE RESIDENT ENGINEER AND CLEANED UP IMMEDIATELY.

      4. CONCRETE WASTE SOLIDS/LIQUIDS SHALL BE DISPOSED OF PROPERLY.

   C. LITTER MANAGEMENT - A PROPER NUMBER OF DUMPSTERS SHALL BE PROVIDED ON SITE TO HANDLE DEBRIS AND LITTER ASSOCIATED WITH THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING HIS/HER EMPLOYEES PLACE ALL LITTER INCLUDING MARKING PAINT CANS, SODA CANS, FOOD WRAPPERS, WOOD LATHE, MARKING RIBBON, CONSTRUCTION STRING, AND ALL OTHER CONSTRUCTION RELATED LITTER IN THE PROPER DUMPSTERS.

   D. VEHICLE AND EQUIPMENT CLEANING - VEHICLES AND EQUIPMENT ARE TO BE CLEANED IN DESIGNATED AREAS ONLY, PREFERABLY OFF SITE.

   E. VEHICLE AND EQUIPMENT FUELING - A VARIETY OF BMPS CAN BE IMPLEMENTED DURING FUELING OF VEHICLES AND EQUIPMENT TO PREVENT POLLUTION. THE CONTRACTOR SHALL INFORM THE RESIDENT ENGINEER AS TO WHICH BMPS WILL BE USED ON THE PROJECT. THE CONTRACTOR SHALL INFORM THE RESIDENT ENGINEER HOW (S)HE WILL BE INFORMING HIS/HER EMPLOYEES OF THESE BMPS (I.E. SIGNS, TRAINING, ETC.). BELOW ARE A FEW EXAMPLES OF THESE BMPS:

      1. CONTAINMENT
      2. SPILL PREVENTION AND CONTROL
      3. USE OF DRIP PANS AND ABSORBENTS
      4. AUTOMATIC SHUT-OFF NOZZLES
      5. TOPPING OFF RESTRICTIONS
      6. LEAK INSPECTION AND REPAIR

   F. VEHICLE AND EQUIPMENT MAINTENANCE - ON SITE MAINTENANCE MUST BE PERFORMED IN ACCORDANCE WITH ALL ENVIRONMENTAL LAWS SUCH AS PROPER STORAGE AND NO DUMPING OF OLD ENGINE OIL OR OTHER FLUIDS ON SITE.

VI. FAILURE TO COMPLY:

   FAILURE TO COMPLY WITH ANY PROVISIONS OF THIS STORM WATER POLLUTION PREVENTION PLAN WILL RESULT IN THE IMPLEMENTATION OF AN EROSION AND SEDIMENT CONTROL DEFICIENCY DEDUCTION AGAINST THE CONTRACTOR AND/OR PENALTIES UNDER THE NPDES PERMIT WHICH COULD BE PASSED ONTO THE CONTRACTOR.

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

FILE NAME = c:\pw_work\pwidot\harbaughrd\dms51889\plan01506a.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 12/10/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	11
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PART OF THE NW 1/4 OF SECTION 20 AND THE SW 1/4 OF SECTION 17 T10N, R10W, OF THE 3RD PM, GREENE COUNTY, ILLINOIS

THE TOPOGRAPHY SHOWN HEREON WAS ORIGINALLY LOCATED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND PROVIDED TO THE SURVEYOR. THE SURVEYOR FIELD VERIFIED AND SUPPLEMENTED THE TOPOGRAPHY SHOWN HEREON ON 2/22/2008.

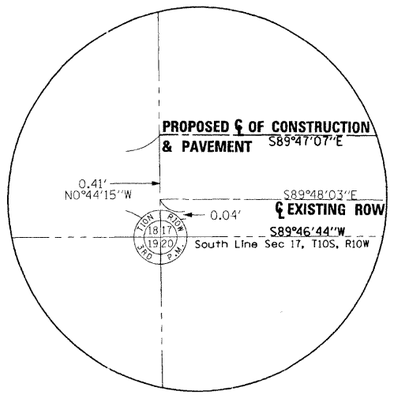
COORDINATES SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
1063+92.00	0.41' RT	275,310.4877	960,998.9109
1063+92.84	40.37' RT	275,311.1773	960,958.9445
1063+91.34	39.60' LT	275,309.9722	961,038.9492
1065+50.00	54.67' LT	275,468.6904	961,053.3975
1065+50.00	55.33' RT	275,468.2782	960,943.3983
1068+15.00	55.25' RT	275,733.2766	960,942.4770
1068+15.00	85.25' RT	275,733.1642	960,912.4772
POT 1068+35.00	CL	275,753.4870	960,997.6560
1069+05.00	85.23' RT	275,823.1636	960,912.1644
1069+05.00	55.23' RT	275,823.2760	960,942.1642
1070+50.00	55.19' RT	275,968.2751	960,941.6601
1070+50.00	54.81' LT	275,968.6874	961,051.6593
1071+98.43	39.85' LT	276,117.0644	961,036.1434
1071+98.46	40.15' RT	276,116.7863	960,956.1433
POT 1076+01.40	CL	276,528.8800	960,994.7500
EX 1	NA	277,103.9885	960,961.2110
EX 2	NA	277,028.6248	961,040.2310

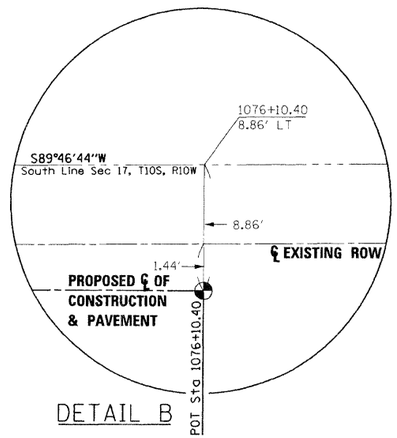
SEE SHEET 4 FOR TOTAL HOLDING

SW1/4 SW1/4
SEC 17-10N-10W

BK.28/PG.119

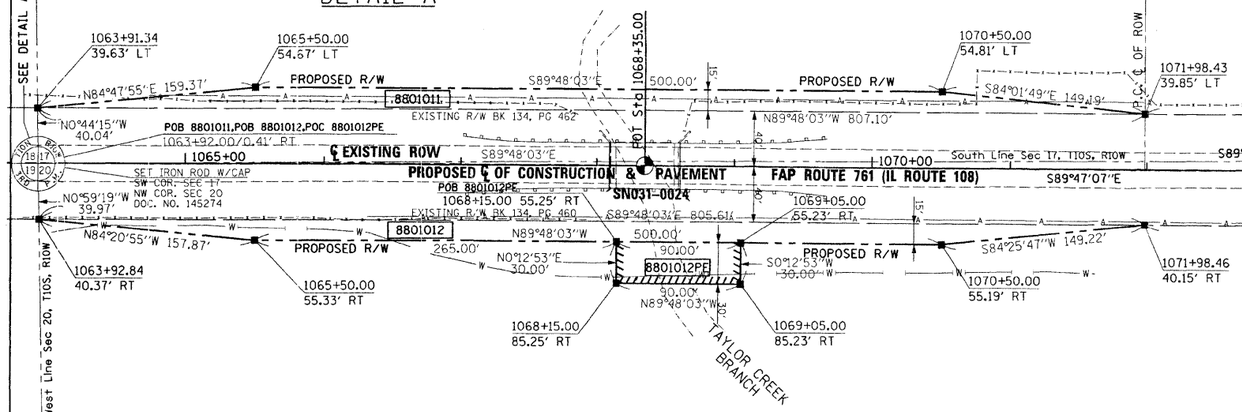


DETAIL A



DETAIL B

℄ OF RIGHT OF WAY
Δ = 1° 02"
D = 0° 06"
R = 57,295.78"



BK.222/PG.11

SEE SHEET 4 FOR TOTAL HOLDING

NW1/4 NW1/4
SEC 20-10N-10W

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	12
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO.	76987			

LEGEND

- SECTION CORNERS
- QUARTER SECTION CORNERS
- EXISTING CENTERLINE
- EXISTING RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL 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
- MEASURED DIMENSION
- RECORDED DIMENSION
- FOUND STONE
- FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED
- SET 5/8 INCH IRON ROD WITH PLASTIC CAP IDENTIFIED BY SURVEYORS LICENSE NUMBER AT CORNER UNLESS OTHERWISE NOTED
- PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 606101 (TO BE SET BY OTHERS)
- SET 5/8 INCH IRON ROD AS SURVEY CONTROL UNLESS OTHERWISE NOTED
- FOUND CUT CROSS
- SET CUT CROSS
- FOUND RIGHT OF WAY MARKER
- SAME OWNERSHIP
- EXISTING BUILDING

■ STAKING OF PROPOSED RIGHT OF WAY AND PERMANENT EASEMENT CORNERS. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY ALUMINUM CAP TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS LICENSE NUMBER. (PROPOSED RIGHT OF WAY CORNERS SET IN CULTIVATED AREAS SHALL BE A MINIMUM OF 20 INCHES BELOW THE GROUND SURFACE).

STATE OF MISSOURI)
) SS
CITY OF ST. LOUIS)

I, RONNIE D. LOWE, 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 _____

_____
RONNIE D. LOWE, PLS NO. 035-003363
LICENSE EXPIRATION DATE: 11/30/2008

DAVID MASON & ASSOCIATES OF ILLINOIS, LTD.
Engineering
Architecure
Surveying
800 South Vandeventer Avenue
St. Louis, MO 63110
(314) 534-1030
ILLINOIS LICENCE NO: 184-003391
Expiration Date: April 30, 2009

SPACE RESERVED FOR RECORDING OFFICER

PARCEL NO.	OWNER	TOTAL HOLDING	FEE SIMPLE ACQUISITION						REMAINDER	EASEMENTS			PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			GROSS		PREVIOUSLY DEDICATED		NET			PE = PERMANENT TE = TEMPORARY		EASEMENT PURPOSE		
		ACRES	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	ACRES	SQ. FT.			
8801011	Ralph A. Petersen Revocable Living Trust U/A 11/14/89 Book 28 Page 119 Title Report Number GN-115	92.3894	1.6067	69,986	1.3816	60,183	0.2251	9,803	90.7827				07-120-17-4	
8801012	The Carrollton Bank and Trust Company, as Trustee under a Trust Agreement dated the 12th day of December, 1978 and known as Trust Number Lont-3-1978 Book 222 Page 11 Title Report Number GN-111	231.2735	2.0669	90,035	1.8421	80,244	0.2248	9,791	229.2066	0.0620	2,700	DRAINAGE CONSTRUCTION & MAINTENANCE	07-120-20-3	

REVISION	
DATE	DESCRIPTION

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 761 (IL 108)
SECTION104-BR-2
GREENE COUNTY
JOB NO. R-98-001-08

STATION 1063+92 TO STATION 1072+00

50' 0 50' 100'
SCALE: 1" = 50'

SHEET 2 OF 5

COMPLETION DATE OF FIELD WORK PERFORMED
LAND SURVEY: FEBUARY 22, 2008
RIGHT OF WAY STAKING:XXXXXXXX

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

SHEET 1 IS A COVER SHEET

PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
USER NAME = #USER#

PART OF THE NW 1/4 OF SECTION 21 AND THE SW 1/4 OF SECTION 16 T10N, R10W, OF THE 3RD PM, GREENE COUNTY, ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	13
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO.	76987			

THE TOPOGRAPHY SHOWN HEREON WAS ORIGINALLY LOCATED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND PROVIDED TO THE SURVEYOR. THE SURVEYOR FIELD VERIFIED AND SUPPLEMENTED THE TOPOGRAPHY SHOWN HEREON ON 2/22/2008.

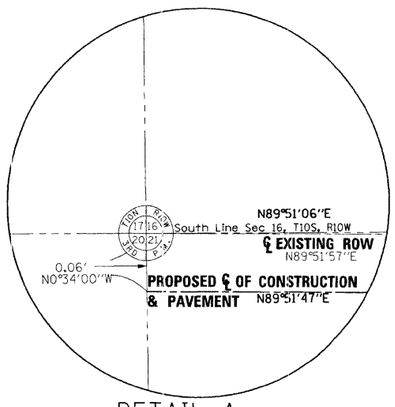
COORDINATES SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
1116+65.49	40.05' LT	280,609.9524	961,019.8956
1116+65.79	0.06' LT	280,610.3480	960,981.4830
1116+66.09	39.95' RT	280,610.7436	960,939.8969
1116+99.47	39.95' RT	280,644.1234	960,939.9670
1116+99.48	40.05' LT	280,643.9361	961,019.3668
1121+00.00	40.03' LT	281,044.4578	961,020.9045
1121+00.00	39.97' RT	281,044.6490	960,940.9048
1122+50.00	49.98' RT	281,194.6725	960,931.2560
1122+50.00	50.02' LT	281,194.4334	961,031.2557
POT 1123+55.00	CL	281,299.5530	960,981.4830
1125+00.00	50.01' LT	281,444.4328	961,031.8410
1125+00.00	49.99' RT	281,444.6718	960,931.8413
1126+50.00	40.00' RT	281,594.6475	960,942.1925
1126+50.00	40.00' LT	281,594.4562	961,022.1923
POT 1128+00.00	CL	281,744.5514	960,982.5467
1129+70.82	39.99' LT	281,915.2710	961,022.9434
1129+71.27	40.01' RT	281,915.9120	960,942.9447

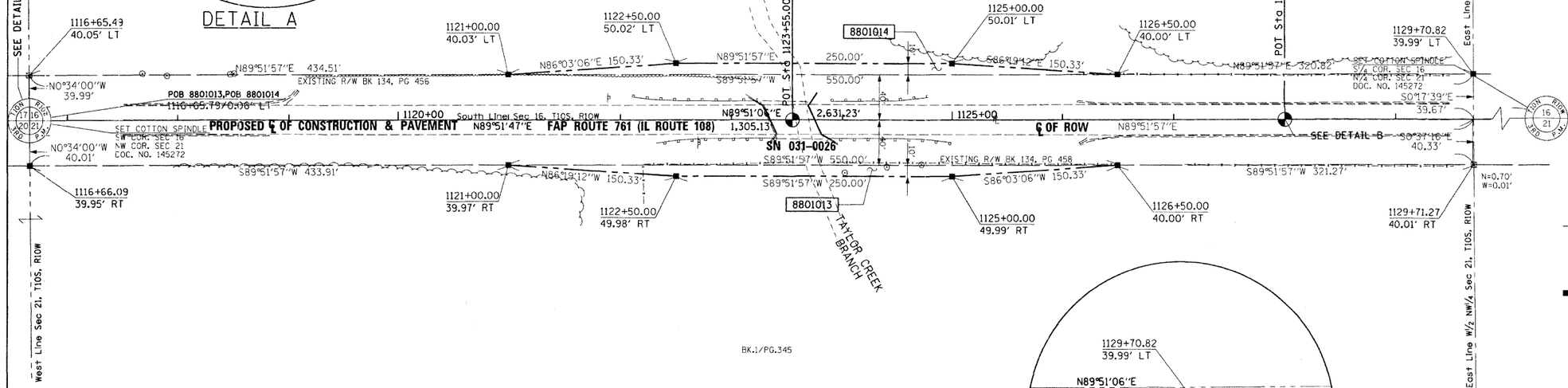
SEE SHEET 4 FOR TOTAL HOLDING

SW1/4 SW1/4
SEC 16-10N-10W

BK.188/PG.213,215&216



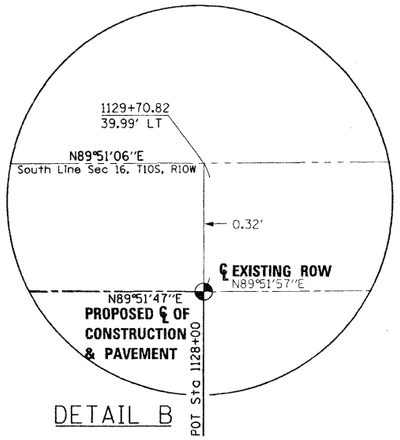
DETAIL A



BK.1/PG.345

W1/2 NW1/4
SEC 21-10N-10W

SEE SHEET 4 FOR TOTAL HOLDING



DETAIL B

LEGEND

- SECTION CORNERS
- QUARTER SECTION CORNERS
- EXISTING CENTERLINE
- EXISTING RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL 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
- MEASURED DIMENSION
- RECORDED DIMENSION
- FOUND STONE
- FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED
- SET 5/8 INCH IRON ROD WITH PLASTIC CAP IDENTIFIED BY SURVEYORS LICENSE NUMBER AT CORNER UNLESS OTHERWISE NOTED
- PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 667101 (TO BE SET BY OTHERS)
- SET 5/8 INCH IRON ROD AS SURVEY CONTROL UNLESS OTHERWISE NOTED
- FOUND CUT CROSS
- SET CUT CROSS
- FOUND RIGHT OF WAY MARKER
- SAME OWNERSHIP
- EXISTING BUILDING

■ STAKING OF PROPOSED RIGHT OF WAY AND PERMANENT EASEMENT CORNERS. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY ALUMINUM CAP TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS LICENSE NUMBER. (PROPOSED RIGHT OF WAY CORNERS SET IN CULTIVATED AREAS SHALL BE A MINIMUM OF 20 INCHES BELOW THE GROUND SURFACE).

STATE OF MISSOURI)
) SS
CITY OF ST. LOUIS)

I, RONNIE D. LOWE, 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 _____

RONNIE D. LOWE, PLS NO. 035-003363
LICENSE EXPIRATION DATE: 11/30/2008

SPACE RESERVED FOR RECORDING OFFICER

PARCEL NO.	OWNER	TOTAL HOLDING	FEE SIMPLE ACQUISITION						REMAINDER	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			GROSS		PREVIOUSLY DEDICATED		NET				
		ACRES	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.	ACRES		
8801013	Lewis William Griswold and Barbara Lucille Griswold, husband and wife as tenants in common Book 1 Page 345 Title Report Number GN-118	269.2367	1.2954	56,429	1.2036	52,429	0.0918	4,000	267.9413	07-120-17-6 07-120-20-1 07-120-21-3	
8801014	Weisner Bros., Inc., a Delaware corporation Book 188 Pages 213, 215 & 216 Title Report Number GN-117	228.3498	1.2853	55,987	1.1934	51,987	0.0918	4,000	227.0645	07-120-16-5 07-120-16-6 07-120-21-1 07-120-21-2	

DAVID MASON & ASSOCIATES OF ILLINOIS, LTD.
Engineering
Architecure
Surveying
800 South Vandeventer Avenue
St. Louis, MO 63110
(314) 534-1030
ILLINOIS LICENCE NO: 184-003391
Expiration Date: April 30, 2009

REVISION	
DATE	DESCRIPTION

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 761 (IL 108)
SECTION104-BR-2
GREENE COUNTY
JOB NO. R-98-001-08

STATION 1116+65 TO STATION 1126+50

50' 0 50' 100'
SCALE: 1" = 50'

SHEET 3 OF 5

COMPLETION DATE OF FIELD WORK PERFORMED
LAND SURVEY: FEBUARY 22, 2008
RIGHT OF WAY STAKING:XXXXXXXX

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

SHEET 1 IS A COVER SHEET

PLOT DATE = $DATE$
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USER$

PART OF SECTIONS 16,17,20, & 21 T10N, R10W, OF THE 3RD PM, GREENE COUNTY, ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	14
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 76987				

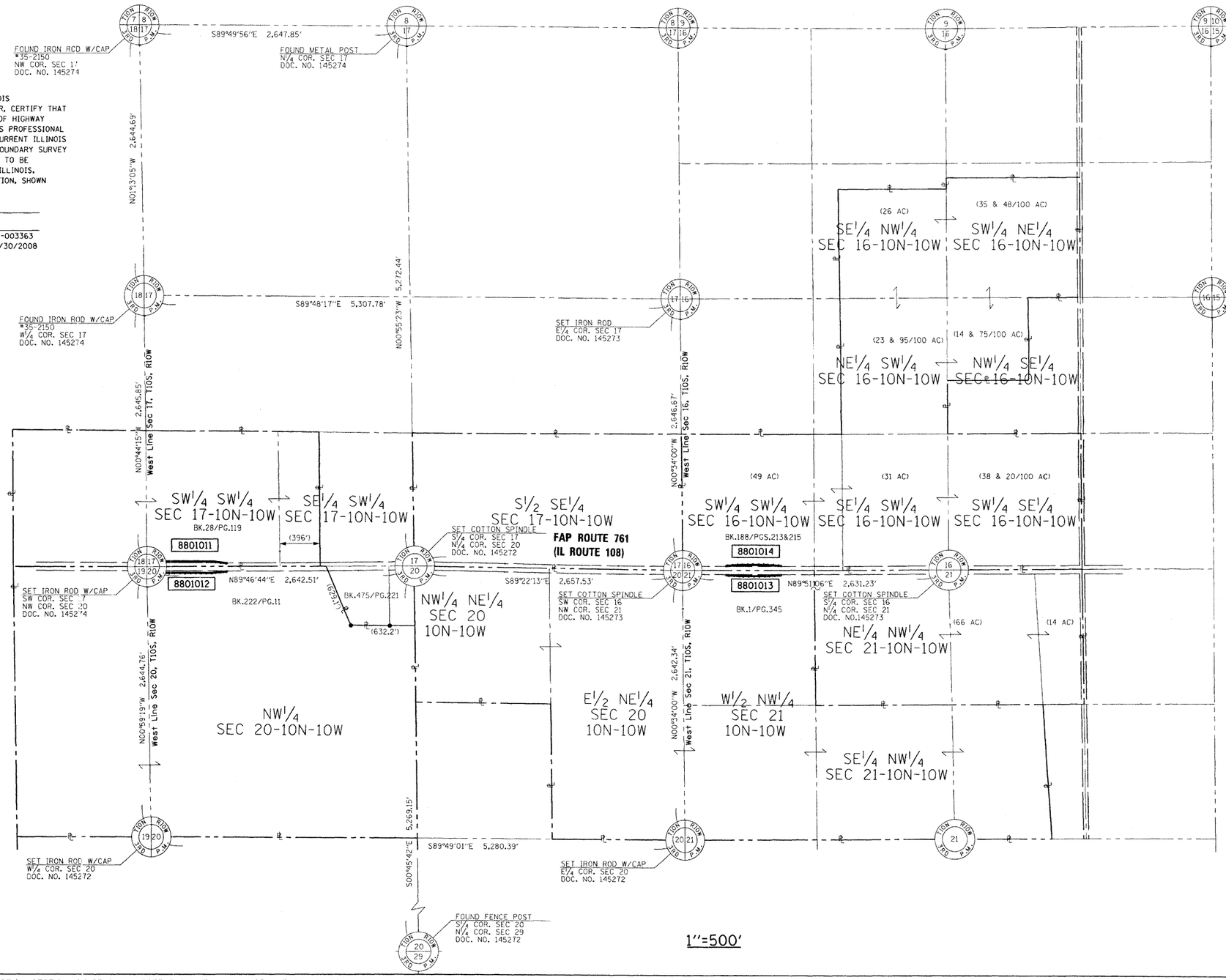
N

STATE OF MISSOURI)
) SS
CITY OF ST. LOUIS)

I, RONNIE D. LOWE, 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 _____

_____
RONNIE D. LOWE, PLS NO. 035-003363
LICENSE EXPIRATION DATE: 11/30/2008



1"=500'

LEGEND

SECTION CORNERS — QUARTER SECTION CORNERS

- EXISTING CENTERLINE
- EXISTING RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- AC — EXISTING ACCESS CONTROL LINE
- AC — PROPOSED ACCESS CONTROL 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
- 121.45' MEASURED DIMENSION
- (121.45') RECORDED DIMENSION
- □ FOUND STONE
- • FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED
- ○ SET 5/8 INCH IRON ROD WITH PLASTIC CAP IDENTIFIED BY SURVEYORS LICENSE NUMBER AT CORNER UNLESS OTHERWISE NOTED
- PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 667101 (TO BE SET BY OTHERS)
- △ SET 5/8 INCH IRON ROD AS SURVEY CONTROL UNLESS OTHERWISE NOTED
- \+ FOUND CUT CROSS
- \+ SET CUT CROSS
- SAME OWNERSHIP
- EXISTING BUILDING

■ STAKING OF PROPOSED RIGHT OF WAY AND PERMANENT EASEMENT CORNERS. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY ALUMINUM CAP TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS LICENSE NUMBER. (PROPOSED RIGHT OF WAY CORNERS SET IN CULTIVATED AREAS SHALL BE A MINIMUM OF 20 INCHES BELOW THE GROUND SURFACE).

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ILLINOIS LICENCE NO: 184-003391
Expiration Date: April 30, 2009

REVISION	
DATE	DESCRIPTION

COMPLETION DATE OF FIELD WORK PERFORMED
LAND SURVEY: FEBUARY 22, 2008
RIGHT OF WAY STAKING:XXXXXXXX

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 761 (IL 108)
SECTION104-BR-2
GREENE COUNTY
JOB NO. R-98-001-08

TOTAL HOLDING

500' 0 500' 1000'
SCALE: 1" = 500'

SHEET 4 OF 5

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

SHEET 1 IS A COVER SHEET

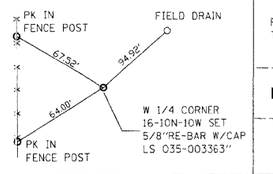
PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
USER NAME = #USER#

TIE SHEET

N

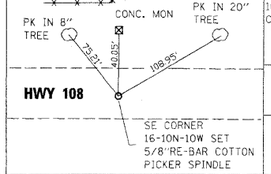
THE TOPOGRAPHY SHOWN HEREON WAS ORIGINALLY LOCATED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND PROVIDED TO THE SURVEYOR. THE SURVEYOR FIELD VERIFIED AND SUPPLEMENTED THE TOPOGRAPHY SHOWN HEREON ON 2/22/2008.

DOCUMENT NO. 145273



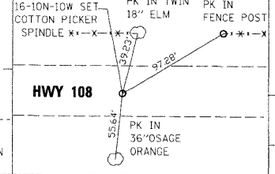
W1/4 COR. SEC. 16-10N-10W

DOCUMENT NO. 145273



SE COR. SEC. 16-10N-10W

DOCUMENT NO. 145273



S1/4 COR. SEC. 16-10N-10W

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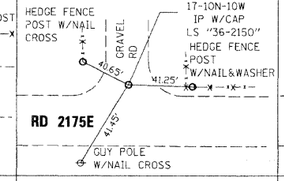
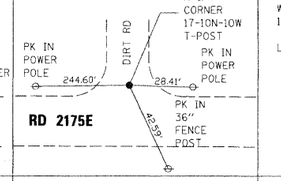


N COR. SEC. 17-10N-10W

DOCUMENT NO. 145274



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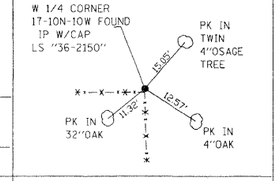

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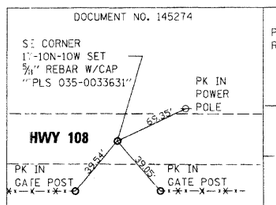

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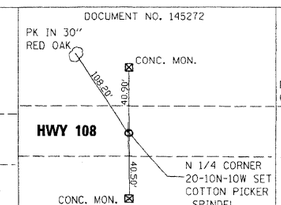

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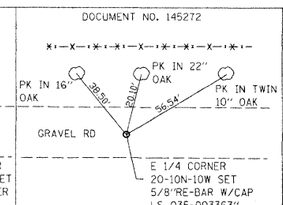

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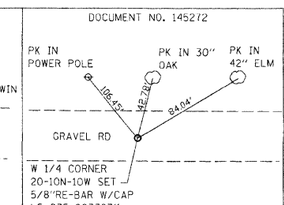

W1/4 COR. SEC. 20-10N-10W

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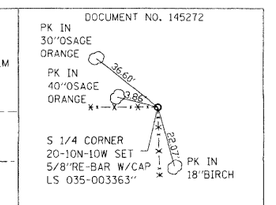
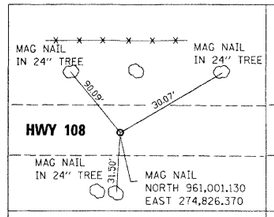


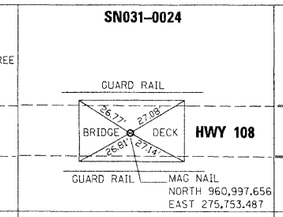
S1/4 COR. SEC. 20-10N-10W

SN031-0024



CL POT STA 1059+07.88

SN031-0024



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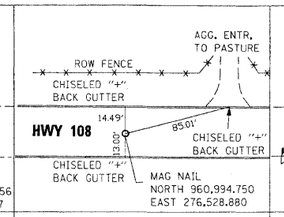

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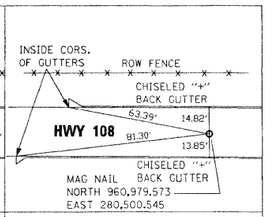
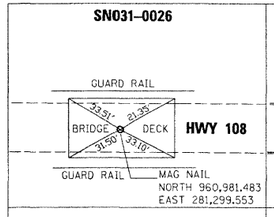
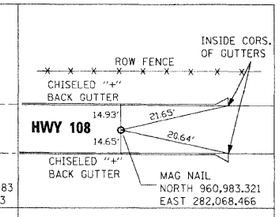


CL POT STA 1115+55.99

SN031-0026



CL POT STA 1123+55



CL POT STA 1131+23.92

STATE OF MISSOURI)
) SS
CITY OF ST. LOUIS)

I, RONNIE D. LOWE, 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 _____

_____
RONNIE D. LOWE, PLS NO. 035-003363
LICENSE EXPIRATION DATE: 11/30/2008

SPACE RESERVED FOR RECORDING OFFICER

PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
USER NAME = #USER#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	15
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO.	76987			

LEGEND

SECTION CORNERS

QUARTER SECTION CORNERS

EXISTING CENTERLINE
EXISTING RIGHT OF WAY LINE
EXISTING EASEMENT LINE
EXISTING ACCESS CONTROL LINE
PROPOSED ACCESS CONTROL 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
MEASURED DIMENSION
RECORDED DIMENSION
FOUND STONE
FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED
SET 5/8 INCH IRON ROD WITH PLASTIC CAP IDENTIFIED BY SURVEYORS LICENSE NUMBER AT CORNER UNLESS OTHERWISE NOTED
PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 606101 (TO BE SET BY OTHERS)
SET 5/8 INCH IRON ROD AS SURVEY CONTROL UNLESS OTHERWISE NOTED
FOUND CUT CROSS
SET CUT CROSS
FOUND RIGHT OF WAY MARKER
SAME OWNERSHIP
EXISTING BUILDING

■ STAKING OF PROPOSED RIGHT OF WAY AND PERMANENT EASEMENT CORNERS. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY ALUMINUM CAP TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS LICENSE NUMBER. (PROPOSED RIGHT OF WAY CORNERS SET IN CULTIVATED AREAS SHALL BE A MINIMUM OF 20 INCHES BELOW THE GROUND SURFACE).

DAVID MASON & ASSOCIATES OF ILLINOIS, LTD.
Engineering
Architecure
Surveying
800 South Vandeventer Avenue
St. Louis, MO 63110
(314) 534-1030
ILLINOIS LICENCE NO: 184-003391
Expiration Date: April 30, 2009

REVISION	
DATE	DESCRIPTION

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 761 (IL 108)
SECTION104-BR-2
GREENE COUNTY
JOB NO. R-98-001-08

TIE SHEET

(NOT TO SCALE) SHEET 5 OF 5

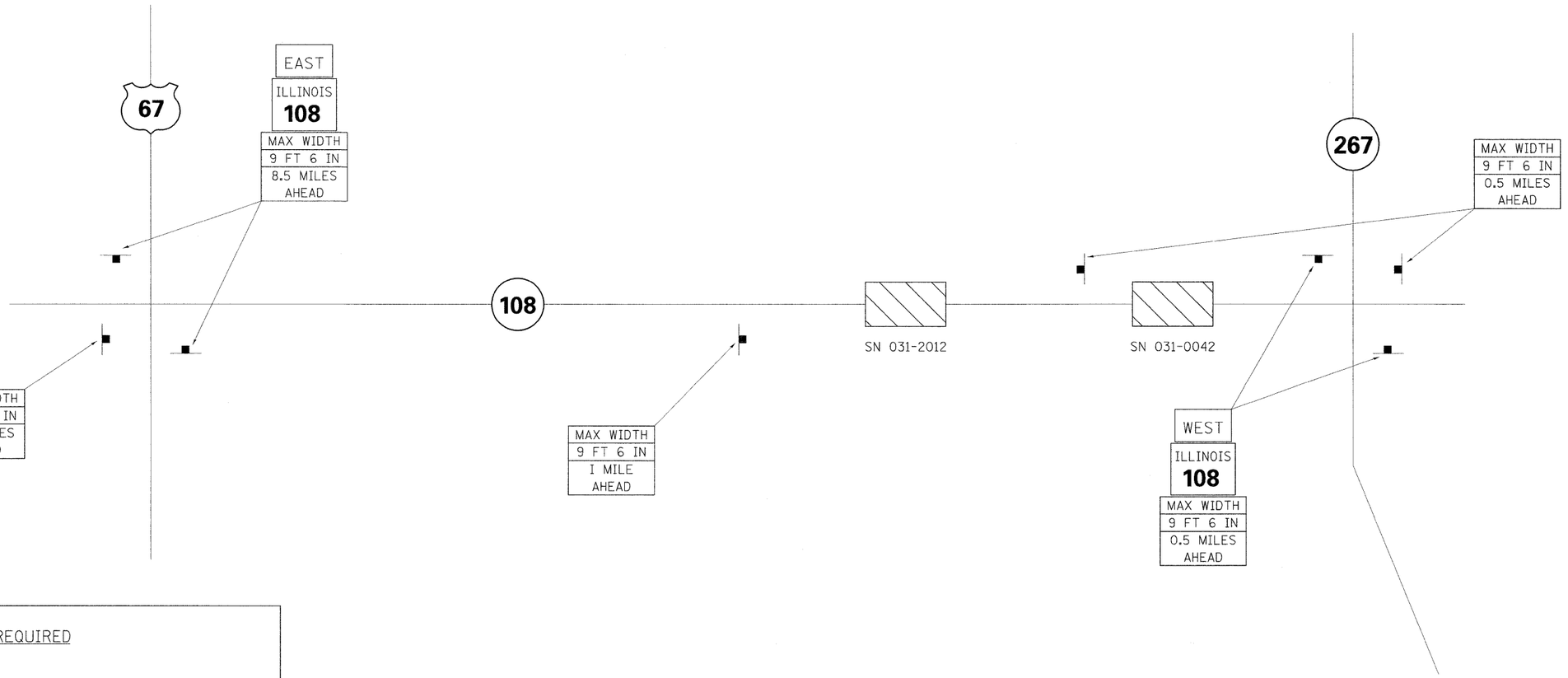
COMPLETION DATE OF FIELD WORK PERFORMED
LAND SURVEY: FEBUARY 22, 2008
RIGHT OF WAY STAKING:XXXXXXXX

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

SHEET 1 IS A COVER SHEET

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 DIRECTIED BY THE R.E./R.T.
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 HEIGHTS, AND RETURN THEM UPON COMPLETION OF THE CONTRACT. CONTACT JEAN SLAPE AT 346-3289.
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'.



SIGNS REQUIRED

ILLINOIS 108 (4)	EAST (2)	WEST (2)
MAX WIDTH 9 FT 6 IN / I MILE AHEAD (1)	MAX WIDTH 9 FT 6 IN / 0.5 MILES AHEAD (4)	MAX WIDTH 9 FT 6 IN / 8.5 MILES AHEAD (3)

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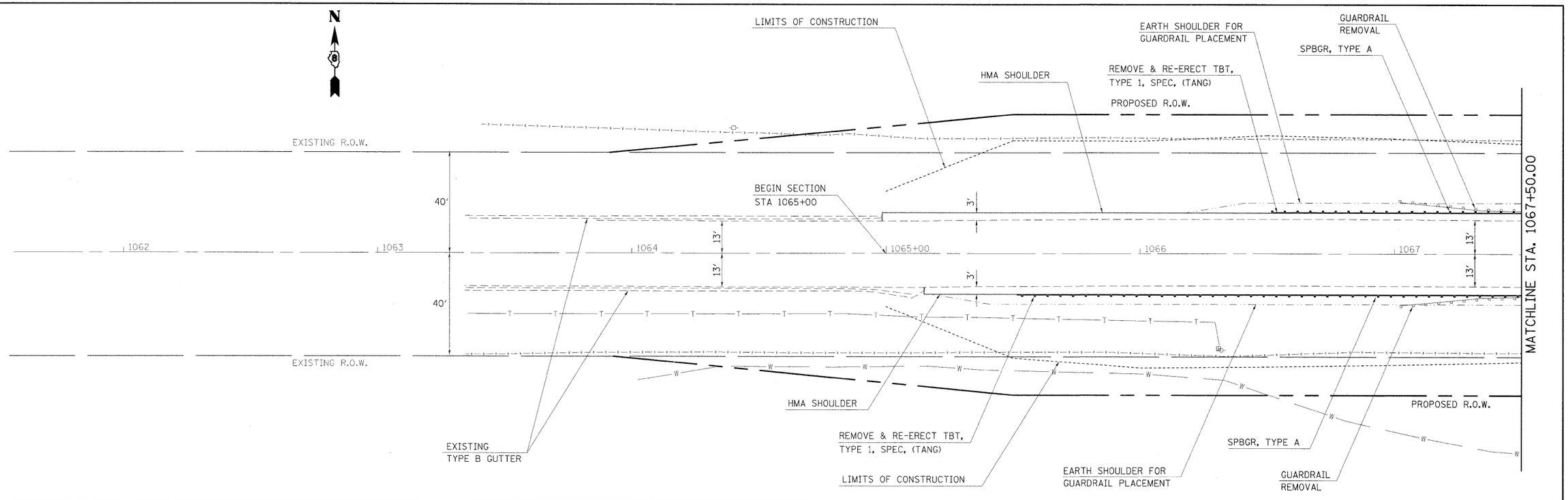
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

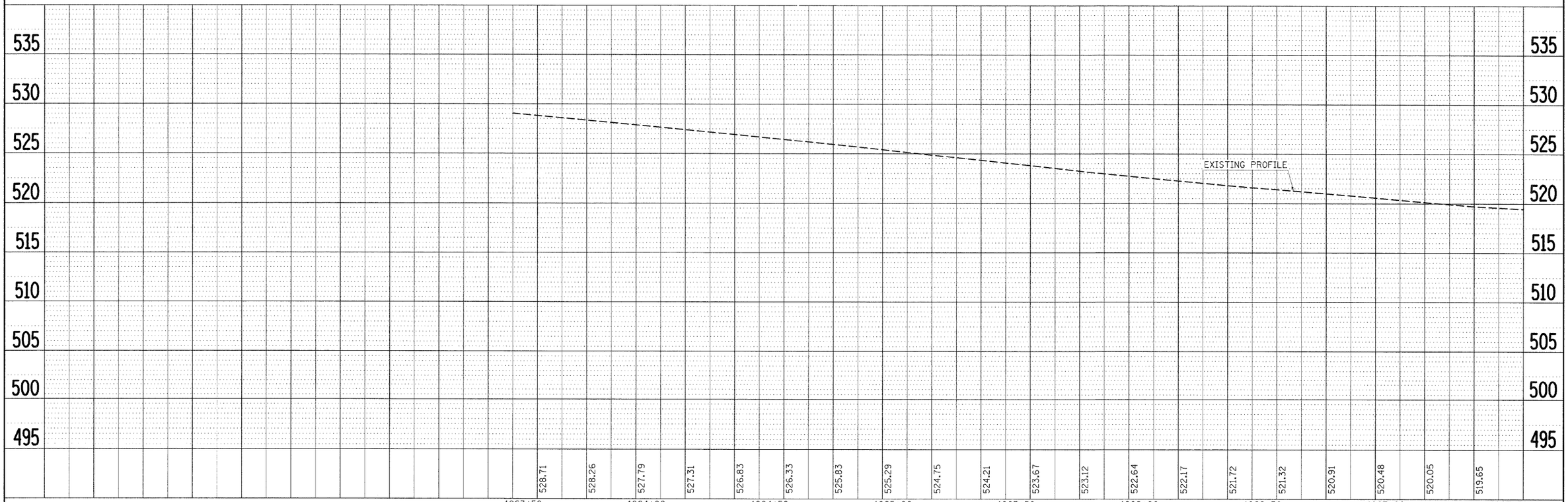
WIDE LOAD SIGNING

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	16
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN
SURVEYED
PLOTTED
CROSS CHECKED
NOTE BOOK
NO.
BY
DATE
ALIGNMENT CHECKED
R.O.W. CHECKED
C-ADD FILE NAME



PROFILE
SURVEYED
PLOTTED
CROSS CHECKED
NOTE BOOK
NO.
BY
DATE
E.M. NOTED
STRUCTURE NOTATING GRAD

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 108 PLAN/PROFILE (SN 031-2012)

SCALE: 20 | SHEET NO. 1 OF 2 SHEETS | STA. 1061+50 TO STA. 1067+50

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	17
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CAST-IN-PLACE
TRIPLE BOX CULVERT

STONE RR
CLASS A5

GUARDRAIL
REMOVAL

SPBGR, TYPE A

EARTH SHOULDER FOR
GUARDRAIL PLACEMENT

REMOVE & RE-ERECT TBT,
TYPE 1, SPEC, (TANG)

HMA SHOULDER

LIMITS OF CONSTRUCTION

N

MATCHLINE STA. 1067+50.00

PROPOSED R.O.W.

EXISTING R.O.W.

END SECTION
STA 1071+45

1068+35.00

1068 | 1069 | 1070+00 | 1071 | 1072 | 1073

13'
13'
3'
3'
13'
13'
40'
40'

PROPOSED R.O.W.

EXISTING R.O.W.

EXISTING
TYPE B GUTTER

STONE RR,
CLASS A5

PROPOSED EASEMENT

SPBGR, TYPE A

REMOVE & RE-ERECT TBT,
TYPE 1, SPEC, (TANG)

EARTH SHOULDER FOR
GUARDRAIL PLACEMENT

HMA SHOULDER

LIMITS OF CONSTRUCTION

PLAN
SURVEYED
PLOTTED
PLOTTED CHECKED
NOTE BOOK
NO.
R.O.W. NOTED
STRUCTURE NOTATNS CHKD
BY
DATE

PROFILE
SURVEYED
PLOTTED
PLOTTED CHECKED
NOTE BOOK
NO.
R.O.W. NOTED
STRUCTURE NOTATNS CHKD
BY
DATE

EXISTING PROFILE

D.H.W. ELEV. 512.98

530
525
520
515
510
505
500
495
490

519.38 | 519.18 | 519.10 | 506.33 | 503.36 | 519.07 | 519.03 | 519.06 | 519.17 | 519.35 | 519.56 | 519.78 | 520.05 | 520.35 | 520.66 | 521.02 | 521.39 | 521.81 | 522.25 | 522.68 | 523.10 | 523.52 | 524.03 | 524.57 | 525.08 | 525.48 | 525.87 | 526.24

67+50 | 1068+00 | 1068+50 | 1069+00 | 1069+50 | 1070+00 | 1070+50 | 1071+00 | 1071+50 | 1072+00 | 1072+50 | 1073+00

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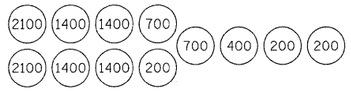
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 108 PLAN/PROFILE (SN 031-2012)

SCALE: 20 | SHEET NO. 1 OF 2 SHEETS | STA. 1067+50 | TO STA. 1073+40

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	18
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SAND MODULE IMPACT ATENUATOR LAYOUT
(IF OPTION USED)

SEQUENCE OF CONSTRUCTION - STAGE I

SEE STANDARD 701321 FOR LAYOUT OF TRAFFIC CONTROL.

PLACE "HMA BASE COURSE WIDENING, 9 INCH" FOR 3 FT WIDENING AS SHOWN ON PLANS.

PLACE 350 FT TEMPORARY CONCRETE BARRIER AND 2 EACH IMPACT ATTENUATORS, TEMPORARY.

REMOVE SKIP-DASH AND SOLID EDGE PAVEMENT MARKING BETWEEN STOP BARS.

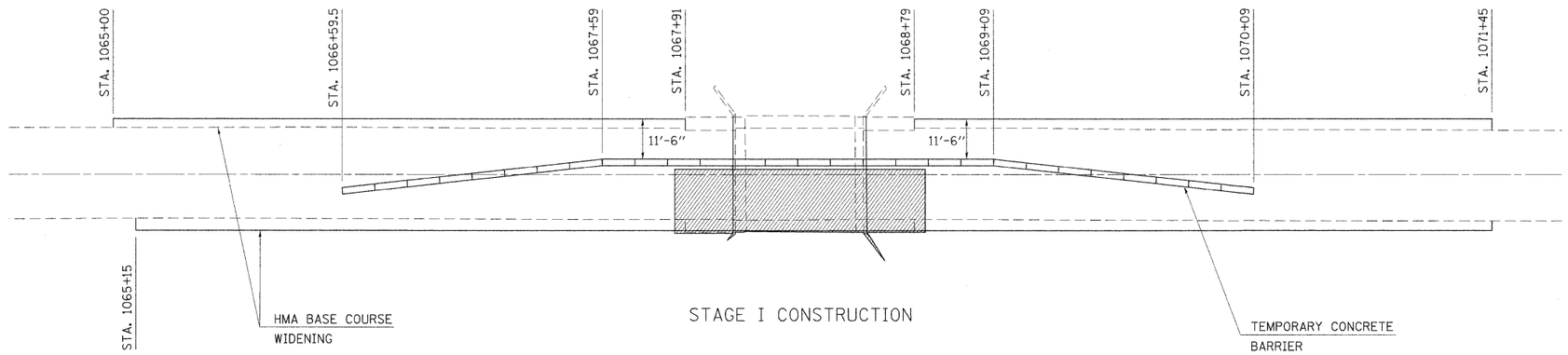
SEQUENCE OF CONSTRUCTION - STAGE II

SEE STANDARD 701321 FOR DETAILS NOT SHOWN ON PLANS.

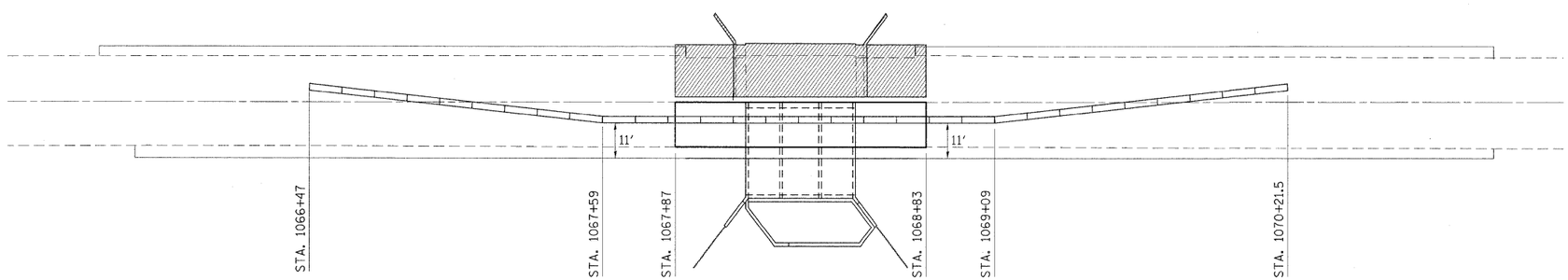
PLACE 'HMA BASE COURSE WIDENING, 9 INCH FOR 3 FT WIDENING AS SHOWN ON PLANS.

PLACE GUARDRAIL AND TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT ON BOTH ENDS OF STRUCTURE.

RELOCATE 375 FT OF TEMPORARY CONCRETE BARRIER AND RELOCATE 2 EACH IMPACT ATTENUATORS, TEMPORARY.



STAGE I CONSTRUCTION



STAGE II CONSTRUCTION

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		DRAWN -	REVISED -			761	104-BR-2	GREENE	82	19
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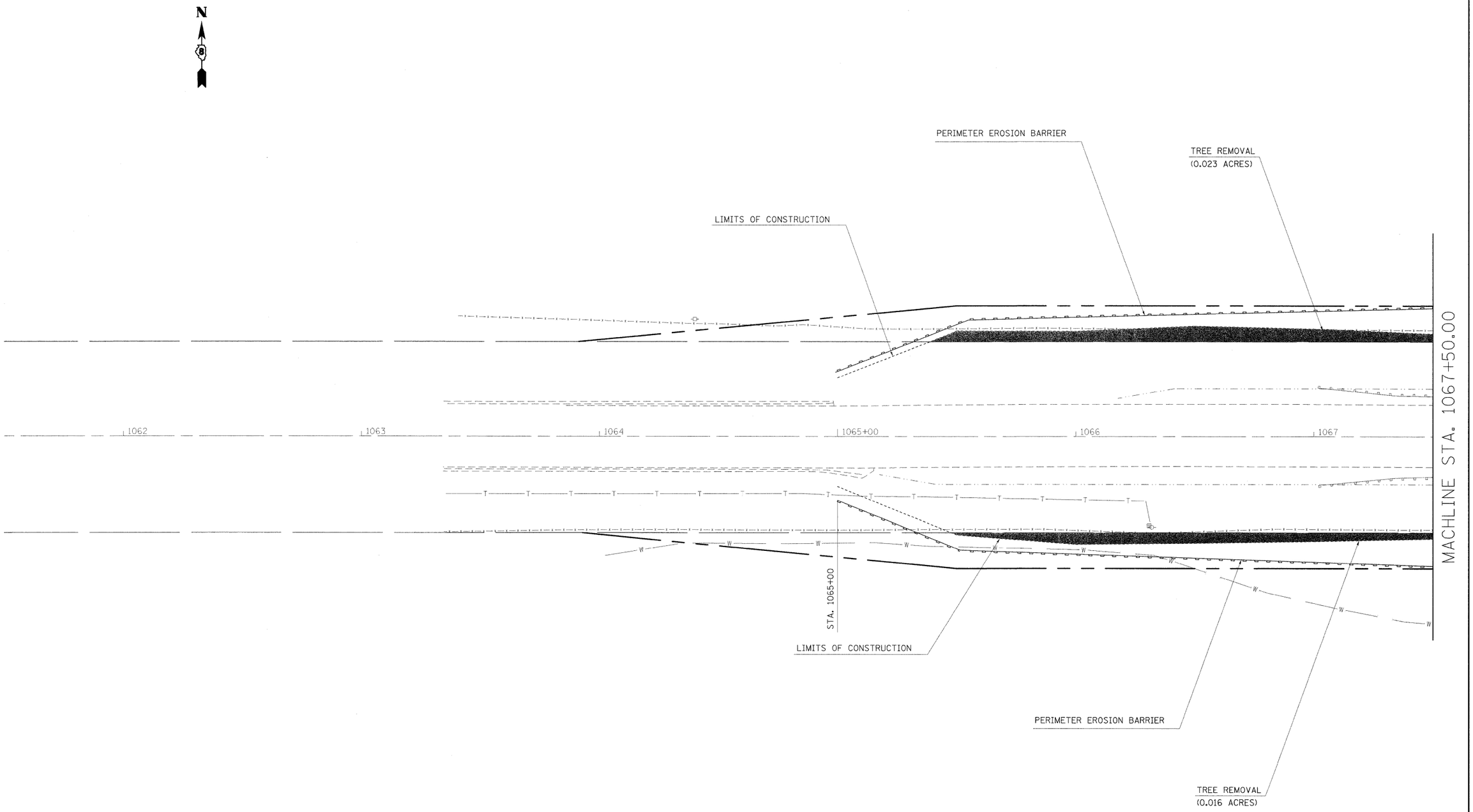
	PLOT DATE = 12/10/2008	DATE -	REVISED -		SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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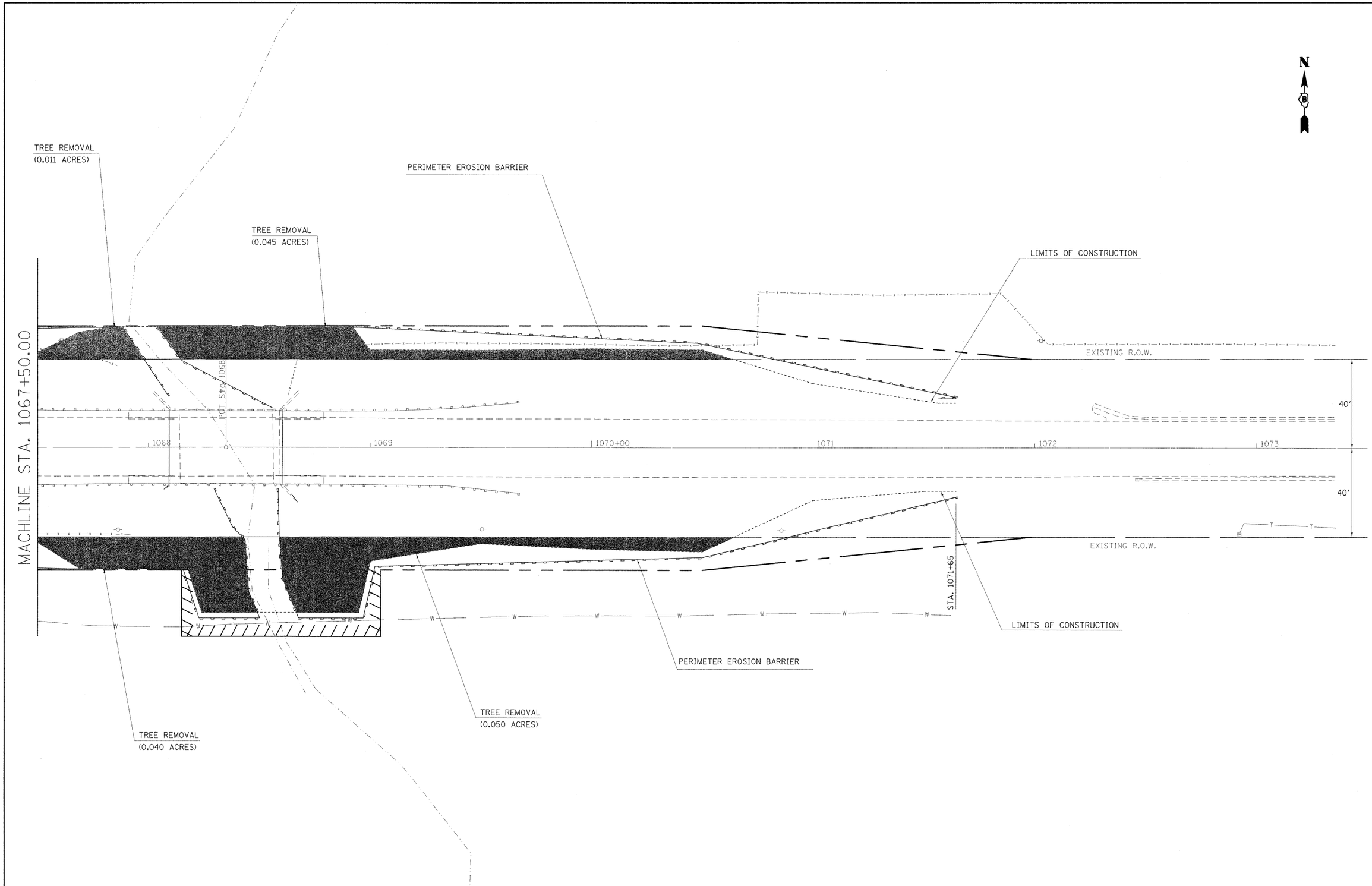
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL (SN 031-2012)

SCALE: 20 | SHEET NO. 1 OF 2 SHEETS | STA. 1061+50 TO STA. 1067+50

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	20
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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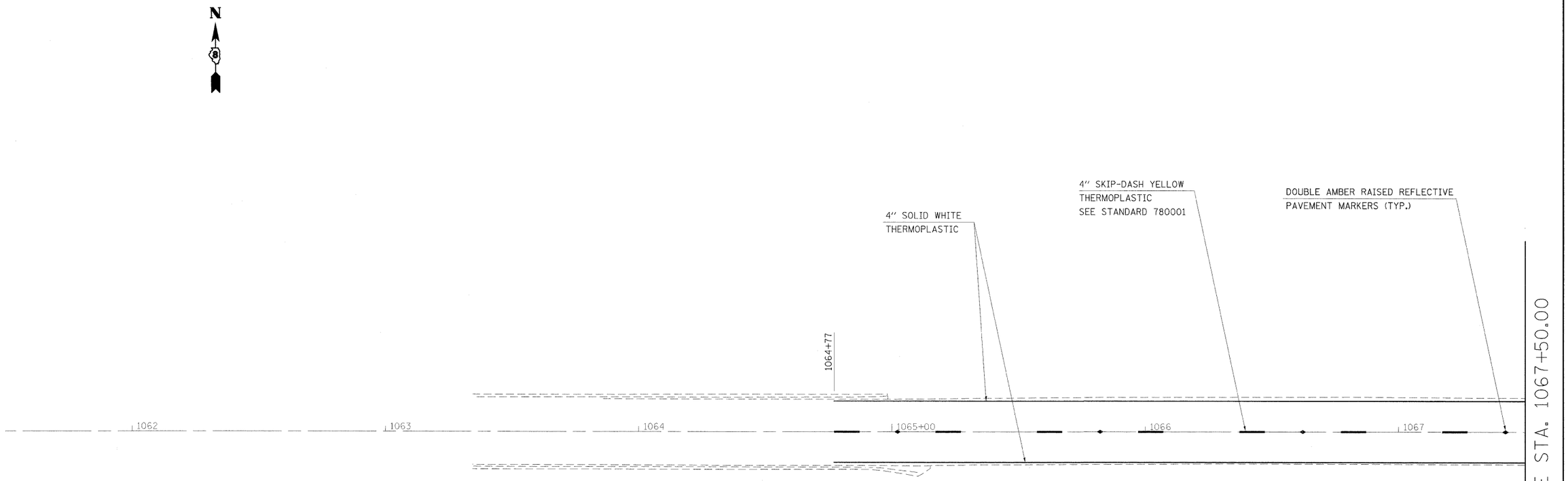
	PLOT DATE = 12/11/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL (SN 031-2012)

SCALE: 20 | SHEET NO. 2 OF 2 SHEETS | STA. 1067+50 TO STA. 1073+50

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	21
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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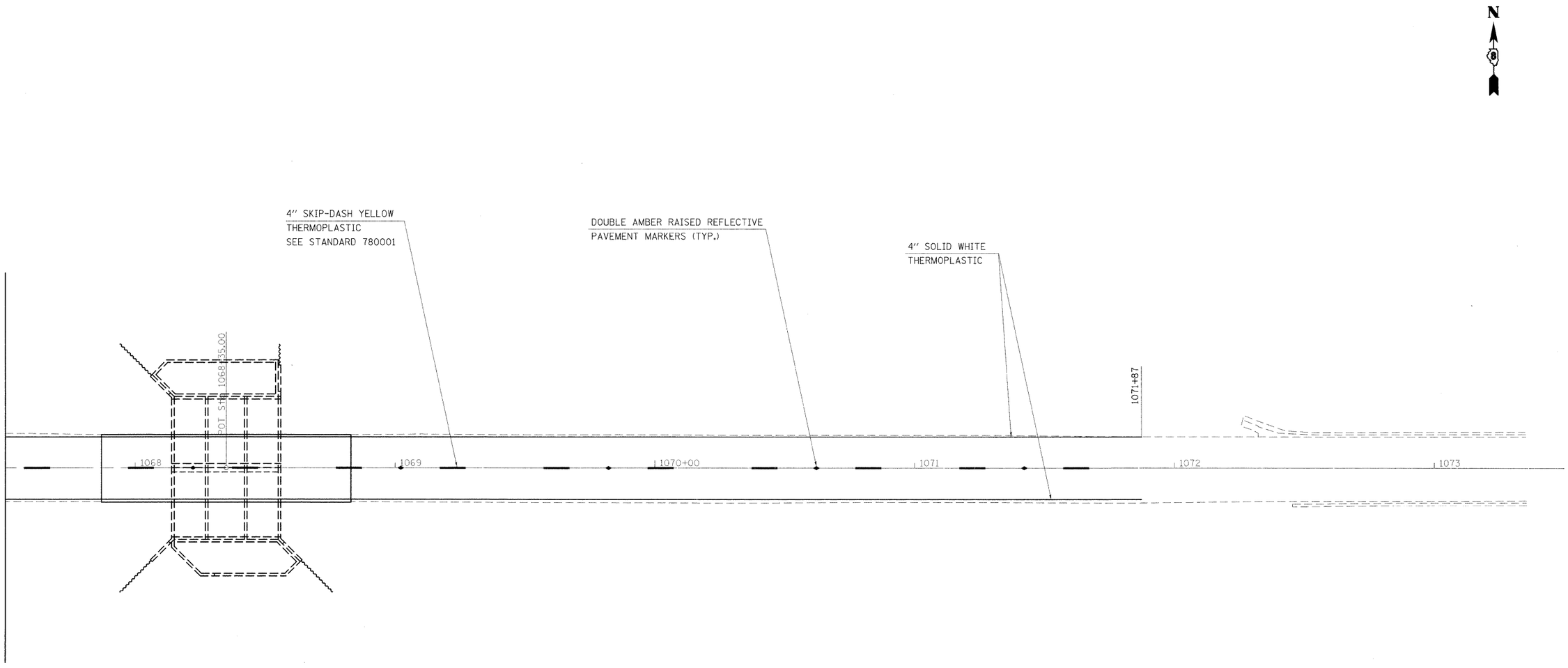
	PLOT DATE = 12/11/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING (SN 031-2012)

SCALE: 20 | SHEET NO. 1 OF 2 SHEETS | STA. 1061+50 TO STA. 1067+50

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	22
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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	PLOT DATE = 12/11/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING (SN 031-2012)

SCALE: 20 | SHEET NO. 2 OF 2 SHEETS | STA. 1067+50 TO STA. 1073+50

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	23
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Bench Mark: RR spike found in power pole, located on the south side of IL Route 108, ±460' east of Route 108 bridge (SN 031-0024) over Taylor Creek. Approx. Sta. 1072+93, 38' RT., Elev. 534.801.

Existing Structure: S.N. 031-0024 built in 1928 as F.A.-761, section 104-BR-1 at station 1068+35.00 as a 1 span reinforced concrete T-beam bridge, 43'-2" Bk.-to-Bk. abutments supported on untreated timber piles. Superstructure replacement and widening in 1978 with PPC deck beams and bituminous wearing surface. Existing bridge to be removed and replaced. Traffic maintained utilizing stage construction.

No salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 761	104-BR-2	GREENE	82	24
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
11 SHEETS

Contract No. 76987

INDEX OF SHEETS

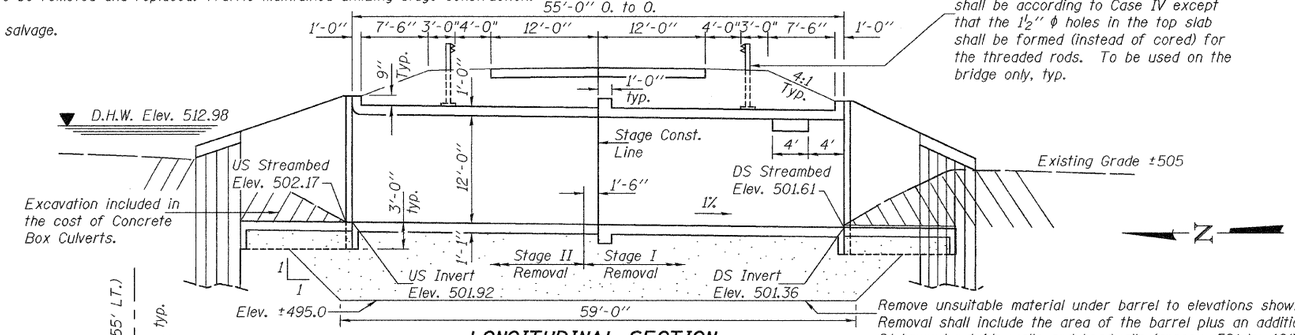
GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

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

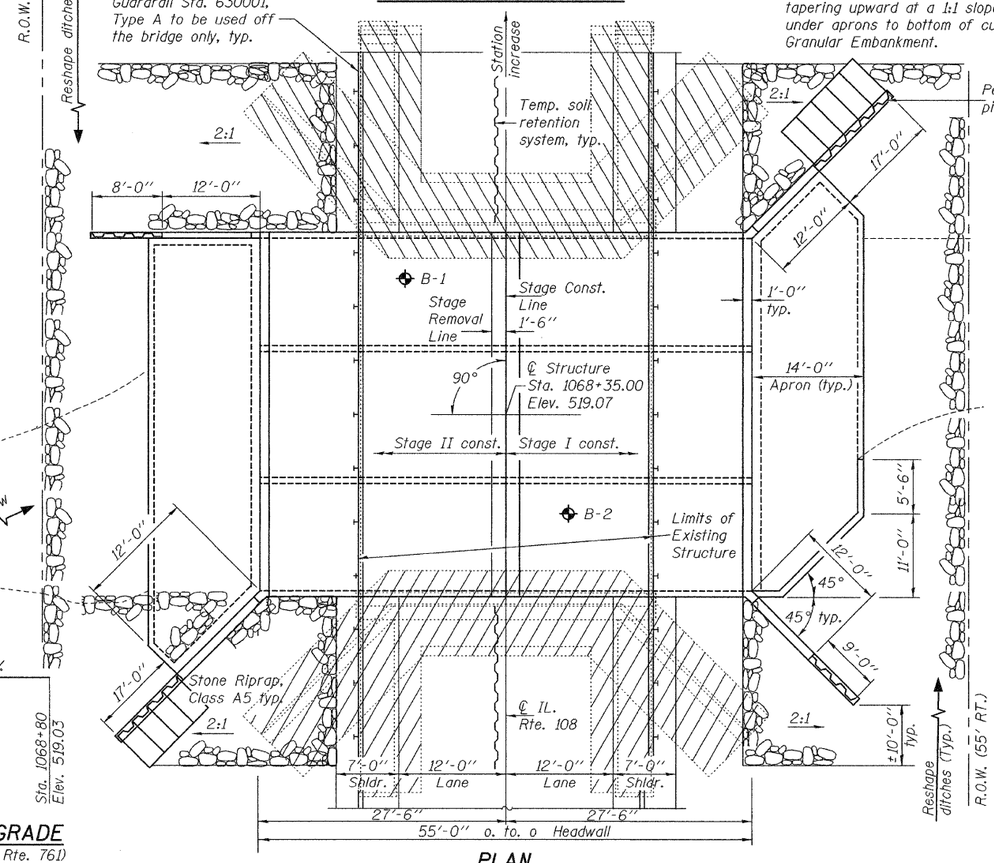
Precast alternate not allowed.



LONGITUDINAL SECTION

Steel ℄ Beam Guard Rail, Attached to Structures (See Std. 630101). Attachment shall be according to Case IV except that the 1½" ϕ holes in the top slab shall be formed (instead of cored) for the threaded rods. To be used on the bridge only, typ.

Remove unsuitable material under barrel to elevations shown. Removal shall include the area of the barrel plus an additional 2' beyond outside walls and headwalls (approx. 59' by 46') and tapering upward at a 1:1 slope. In addition, remove material under aprons to bottom of cutoff wall. Replace with Porous Granular Embankment.

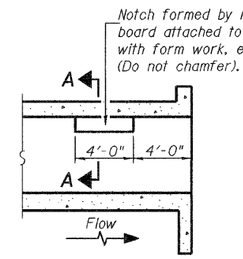


PLAN

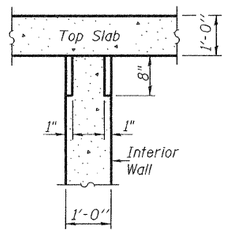
PROFILE GRADE
(along ℄ F.A.P. Rte. 761)

DESIGNED	Jay D. Edwards
CHECKED	Michael Relph
DRAWN	h.t. duong
CHECKED	JDE/MDR

Jan 15, 2009
EXAMINED Thomas Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



LONGITUDINAL SECTION



SECTION A-A

PHOEBE NESTING SITE DETAILS
(Downstream End Only)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal and Disposal of Unsuitable Material	Cu. Yd.	692
Porous Granular Embankment	Cu. Yd.	692
Stone Riprap, Class A5	Sq. Yd.	556
Filter Fabric	Sq. Yd.	556
Removal of Existing Structures	Each	1
Reinforcement Bars, Epoxy Coated	Pound	56190
Bar Splicers	Each	268
Steel Plate Beam Guard Rail, Attached to Structures	Foot	87.5
Temporary Soil Retention System	Sq. Ft.	676
Permanent Steel Sheet Piling	Sq. Ft.	1272
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	388
Geotextile Retaining Wall	Sq. Ft.	150
Geogrid Tieback System	L. Sum	1
Asbestos Bearing Pad Removal	Each	22

WATERWAY INFORMATION

Drainage Area = 5.37 sq. mi. Low Grade Elev. 519.02 ft. @ Sta. 1068+85

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	50	2,496	306	420	512.98	1.17	0.90	514.15	513.88
Base	100	2,952	321	434	513.35	1.52	1.19	514.87	514.54
Overtopping	N/A								
Max. Calc.	500	4,093	351	454	514.11	2.56	2.06	516.67	516.17
Scour	10	1,505	265	381	511.94	0.56	0.39	512.50	512.33

STATION 1068+35.00
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RTE. 761 SEC. 104-BR-2
LOADING HS20-44
STRUCTURE NO. 031-2012

NAME PLATE
See Std. 515001

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	498.92	498.36

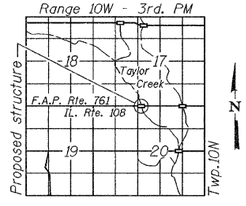
STATE OF ILLINOIS
RALPH E. ANDERSEN
081-004625
SPRINGFIELD
LICENSED STRUCTURAL ENGINEER

EXPIRES 11-30-2010

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

DESIGN SPECIFICATIONS
2002 AASHTO Standard Specification

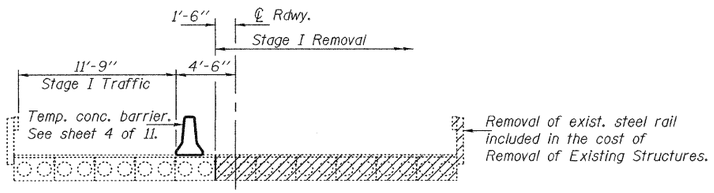
DESIGN STRESSES
f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)



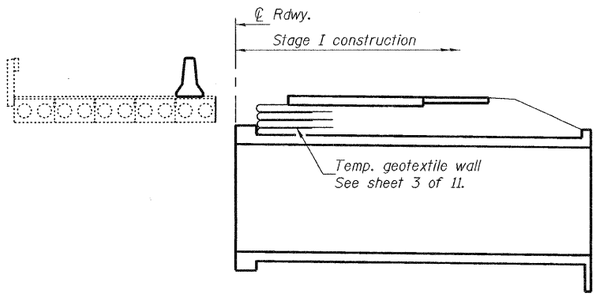
LOCATION SKETCH

GENERAL PLAN
ILLINOIS ROUTE 108 OVER TAYLOR CREEK
F.A.P. RTE. 761 - SEC. 104-BR-2
GREENE COUNTY
STATION 1068+35.00
STRUCTURE NO. 031-2012

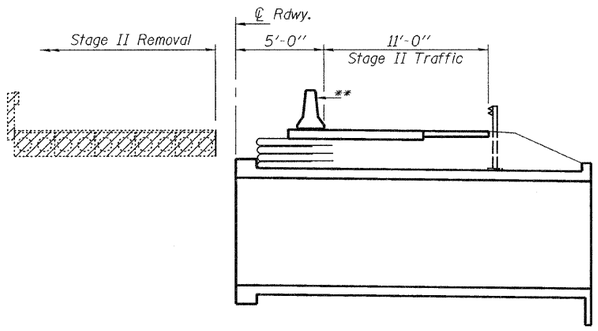
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



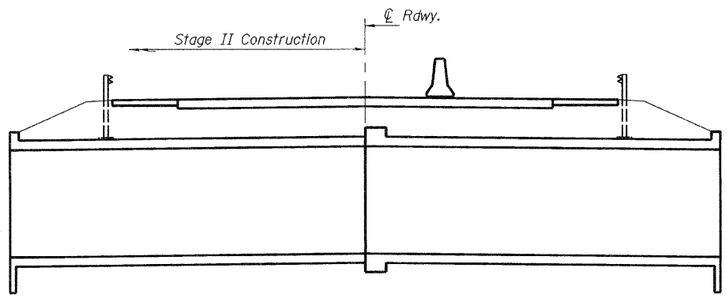
STAGE I REMOVAL



STAGE I CONSTRUCTION

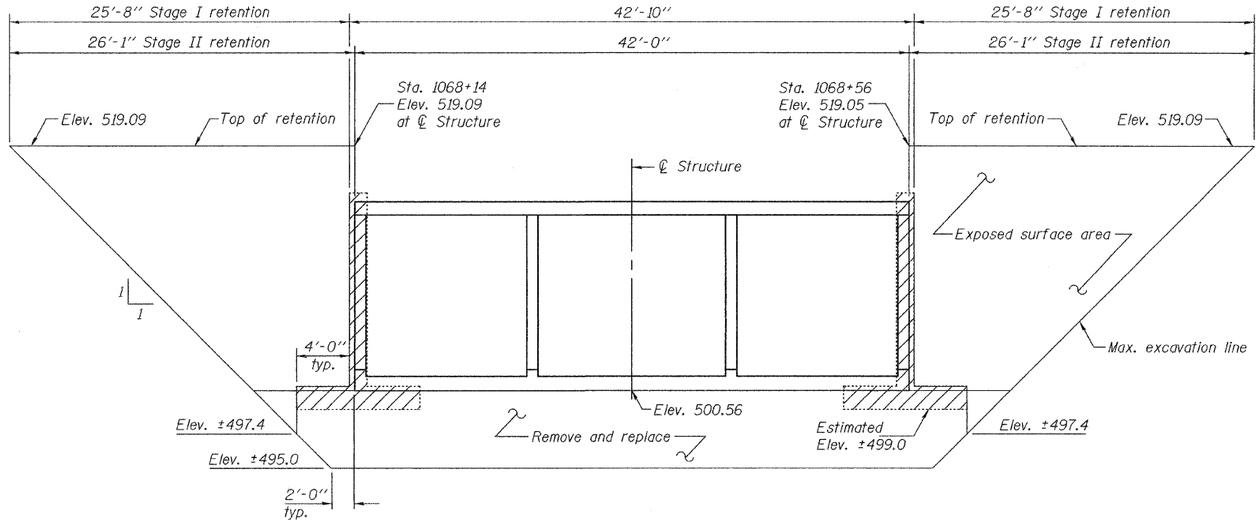


STAGE II REMOVAL



STAGE II CONSTRUCTION

**The temporary concrete barrier next to Stage II Traffic within the limits of end to end of the Temporary Soil Retention System shall be anchored with 3-1" ϕ anchor pins per section of barrier on the traffic side as shown on Highway Standard 704001. Holes in the pavement shall be filled according to Std. Spec's. Section 704. Cost of anchoring and filling shall be included with Temporary Concrete Barrier.



TEMPORARY SOIL RETENTION SYSTEM

(Looking North)

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.

DESIGNED	Jay D. Edwards
CHECKED	Mike D. Rolape
DRAWN	h.t. duong
CHECKED	JDE/MDR

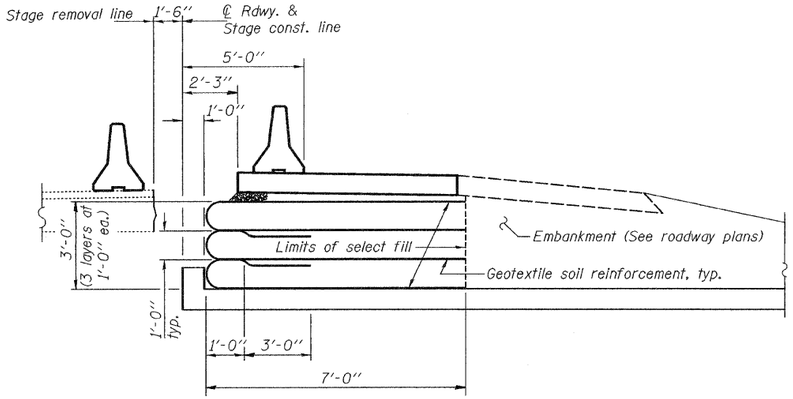
Jan 15, 2009
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

Notes: Hatched areas indicate removal of existing structures.
For quantity of temporary concrete barrier, see Roadway Plans.
All cross sections are looking east.

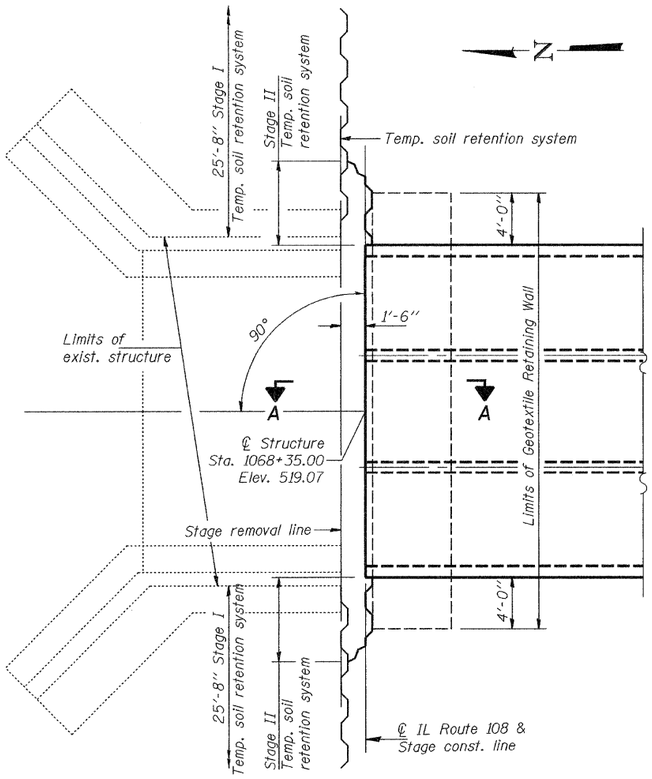
STAGE CONSTRUCTION DETAILS & SOIL RETENTION SYSTEM STRUCTURE NO. 031-2012

SHEET NO. 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11 SHEETS	761	104-BR-2	GREENE	82	25
			CONTRACT NO. 76987		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

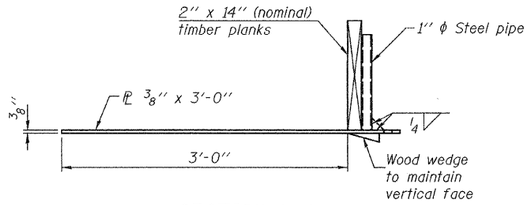
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



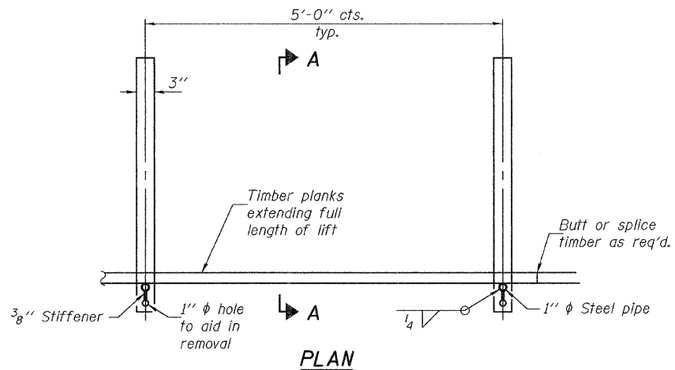
SECTION A-A



PLAN



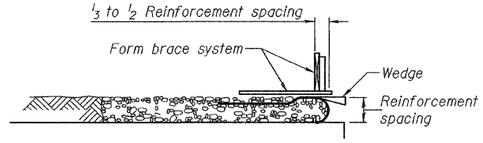
SECTION A-A



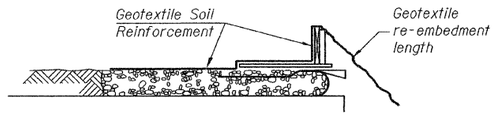
PLAN

TEMPORARY GEOTEXTILE FORM BRACE DETAIL

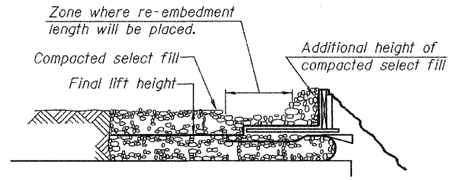
Note: This is a suggested detail, the Contractor is responsible for the design of the form brace system to be used.



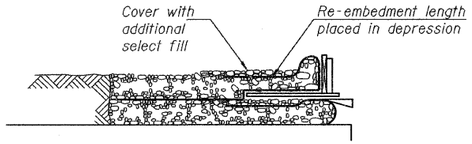
1. Place form brace system on completed reinforcement level; back from the finished fabric face a distance of 1/3 to 1/2 the geotextile reinforcement spacing.



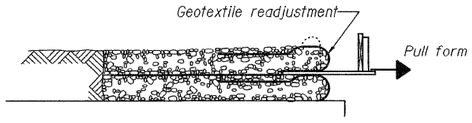
2. Position fabric so that the required geotextile re-embedment length extends over the top of the form brace and the design reinforcement width is placed with no slack against the previous level.



3. Compact select fill material in lifts to final lift height, create (±3") depression in zone where re-embedment length will be located and place additional height of compacted select fill against form brace.



4. Fold geotextile re-embedment length back over form brace into zone where depression was made in select fill and place additional select fill (±3") to embed geotextile and bring to final lift height.



5. Pull form brace outward allowing geotextile face to slightly readjust to form tight round face level with plan reinforcement spacing.

TEMPORARY GEOTEXTILE WALL CONSTRUCTION SEQUENCE

Note:
The geotextile soil reinforcement shall have a minimum allowable tensile strength (T min.) of 20 lb./in. as determined by the procedure described in the Special Provision. The computations supporting the determination of (T min.) shall be submitted to the engineer for approval.

DESIGNED	Jay D. Edwards
CHECKED	Mike D. Rolape
DRAWN	h.t. duong
CHECKED	JDE/MDR

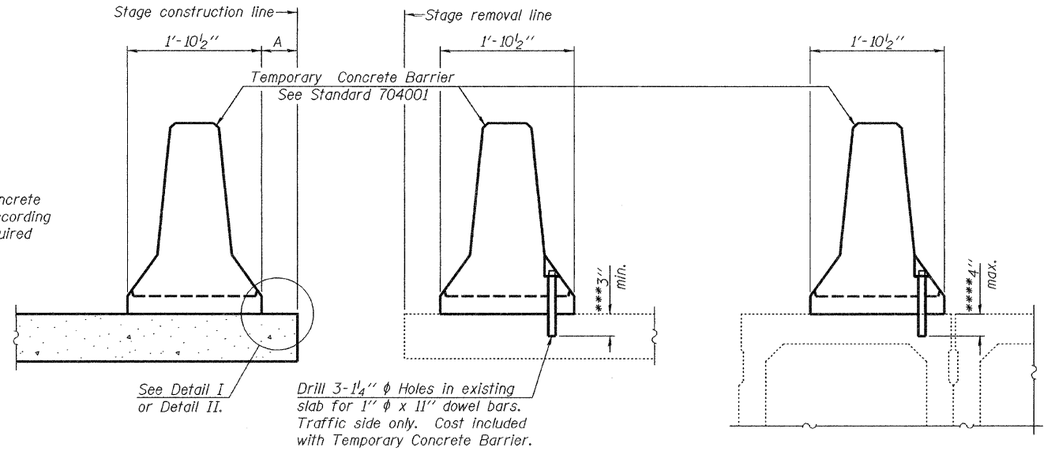
Jan 15, 2009
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

GEOTEXTILE RETAINING WALL STRUCTURE NO. 031-2012

SHEET NO. 3	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11 SHEETS	761	104-BR-2	GREENE	32	26
			CONTRACT NO. 76987		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



NEW SLAB | EXISTING SLAB | EXISTING DECK BEAM

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1''x7''x10'' steel ℙℒ to the top layer of couplers with 2-⅝'' ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1''x7''x 10'' steel ℙℒ to the concrete slab or concrete wearing surface with 2-⅝'' ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

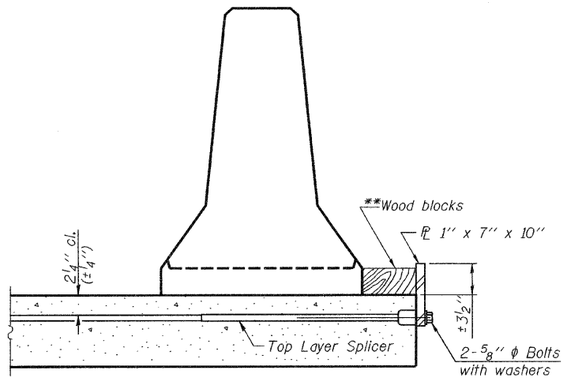
Cost of anchorage is included with Temporary Concrete Barrier.

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.

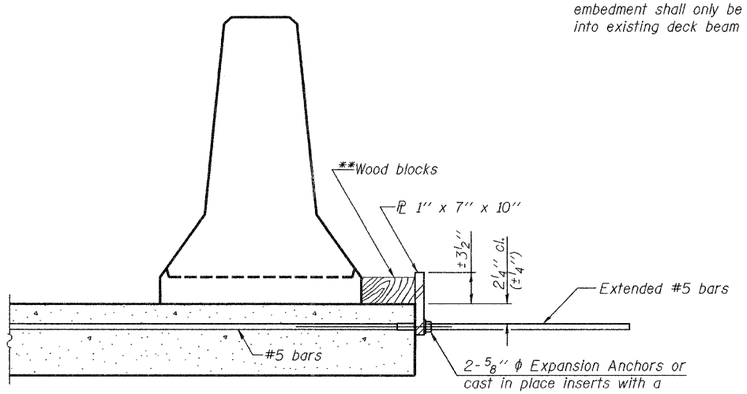
SECTIONS THRU SLAB OR DECK BEAM

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

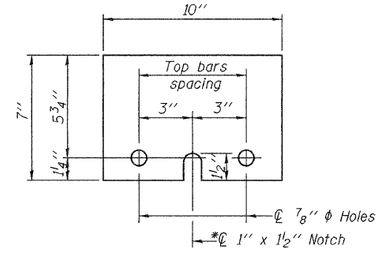
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER ℙℒ 1'' x 7'' x 10''

* Required only with Detail II

**Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

DESIGNED	Jay D. Edwards
CHECKED	Mike D. Rolape
DRAWN	h.t. duong
CHECKED	JDE/MDR

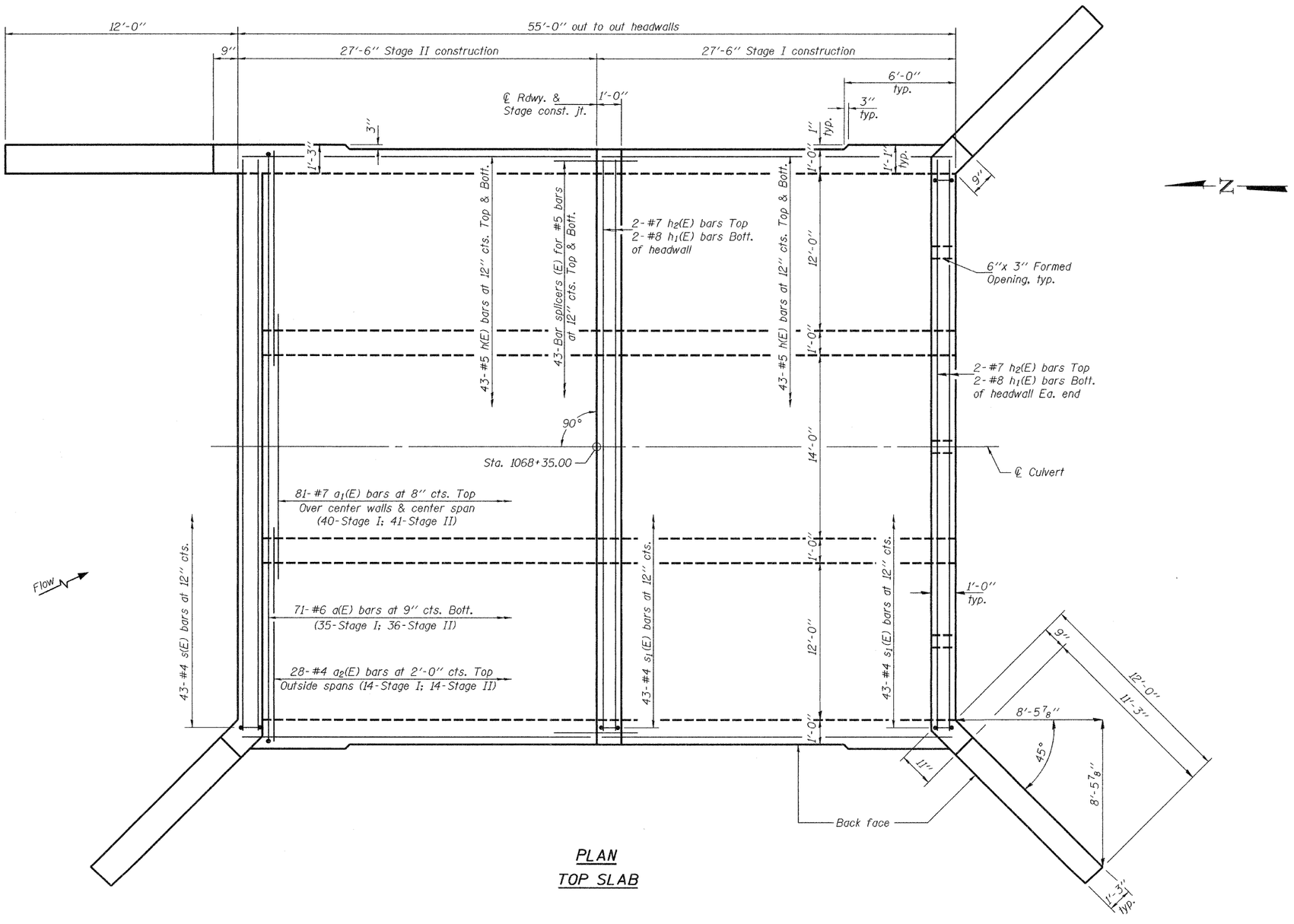
Jan 15, 2009
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

R-27 10-1-08

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION STRUCTURE NO. 031-2012

SHEET NO. 4	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11 SHEETS	761	104-BR-2	GREENE	82	27
			CONTRACT NO. 76987		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PLAN
TOP SLAB

DESIGNED	Jay D. Edwards
CHECKED	Mike D. Rolape
DRAWN	h.t. duong
CHECKED	JDE/MDR

Jan 15, 2009
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

Notes: For bar splicer details, see sheet 10 of 11.
Work this sheet with sheets 6, 7 & 8 of 11.

CULVERT DETAILS
STRUCTURE NO. 031-2012

SHEET NO. 5	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11 SHEETS	761	104-BR-2	GREENE	82	28
			CONTRACT NO. 76987		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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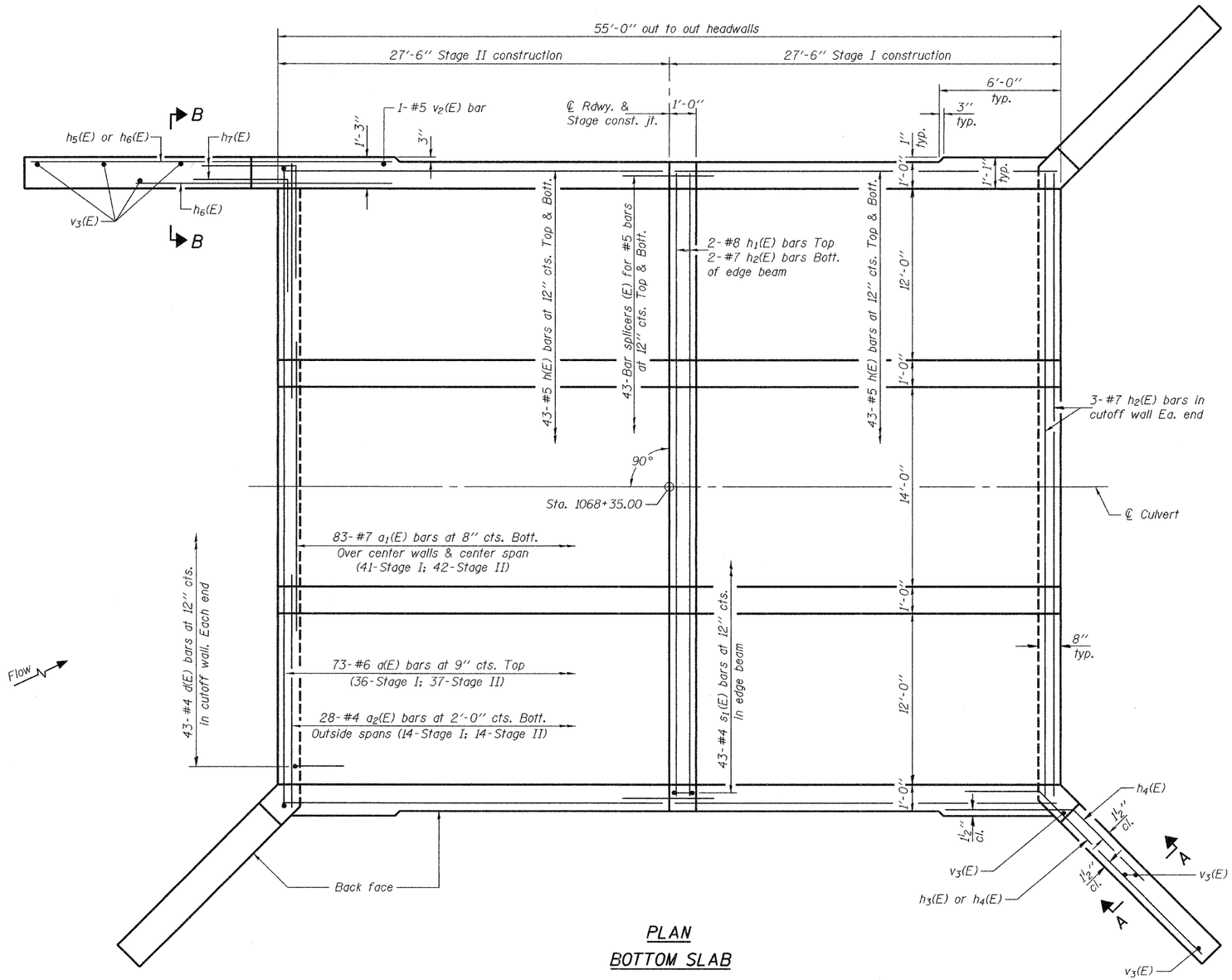
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PLAN
BOTTOM SLAB

DESIGNED	Jay D. Edwards
CHECKED	Mike D. Rolape
DRAWN	h.t. duong
CHECKED	JDE/MDR

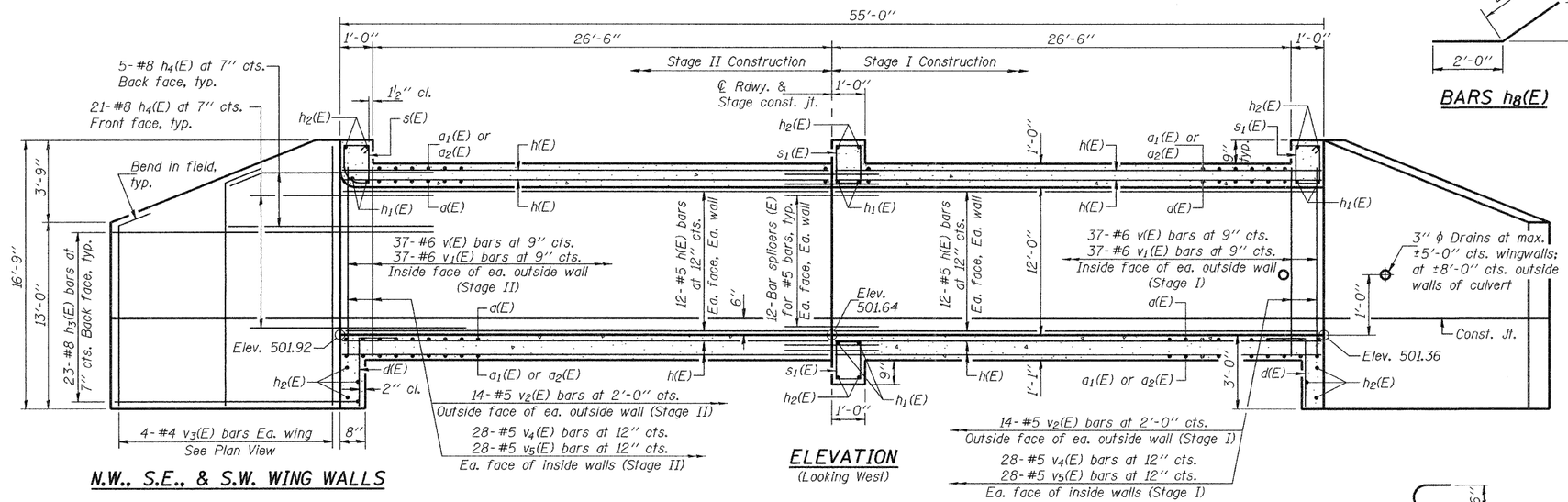
Jan 15, 2009
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

Notes: For Sections A-A & B-B, see sheet 7 of 11.
A distance of half the length of the wingwall but not less than 6 feet of the barrel shall be poured monolithically with the wingwall.

CULVERT DETAILS
STRUCTURE NO. 031-2012

SHEET NO. 6	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11 SHEETS	761	104-BR-2	GREENE	82	29
			CONTRACT NO. 76987		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

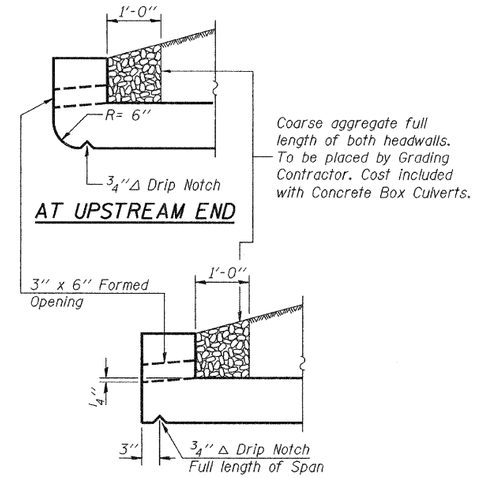
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



N.W., S.E., & S.W. WING WALLS

ELEVATION
(Looking West)

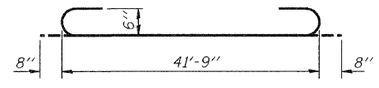
BARS $h_8(E)$



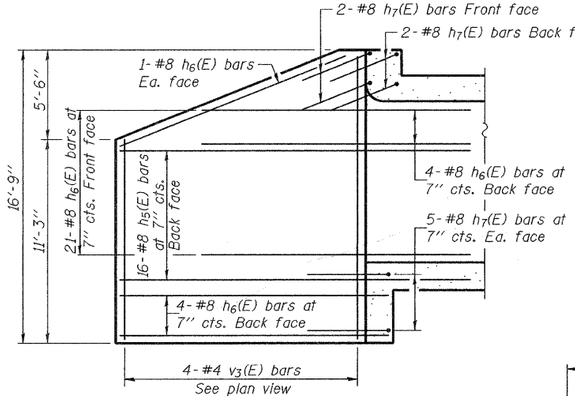
AT UPSTREAM END

AT DOWNSTREAM END

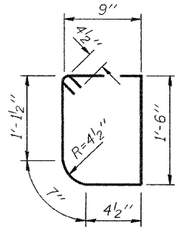
DRAIN DETAIL



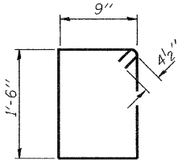
BAR d(E)



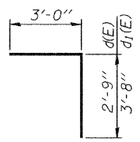
ELEVATION VIEW
N.E. WING WALL



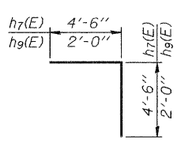
BAR s(E)



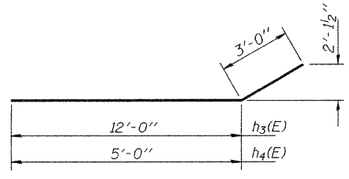
BAR $s_1(E)$



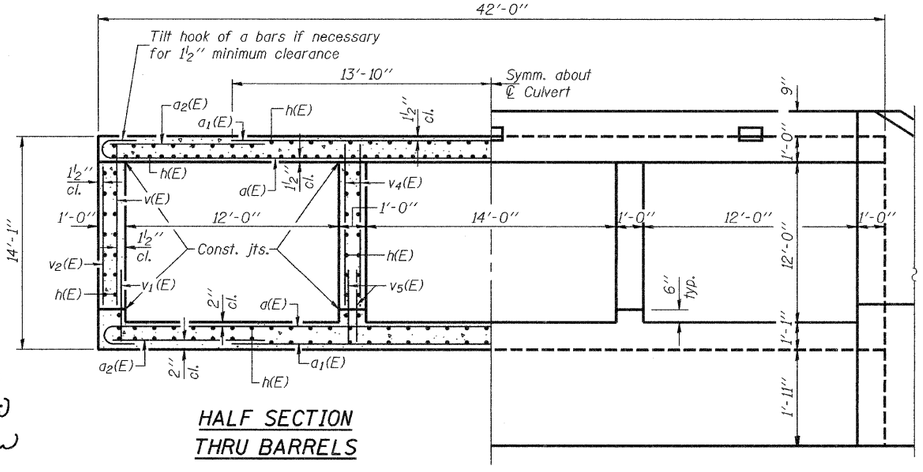
BARS d(E) & $d_1(E)$



BARS $h_7(E)$ & $h_9(E)$

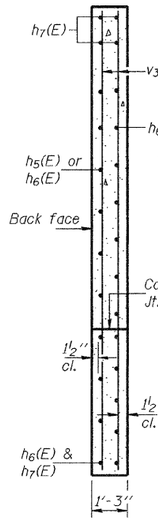


BARS $h_3(E)$ & $h_4(E)$

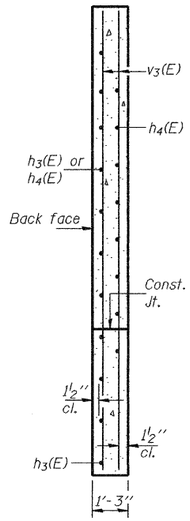


HALF SECTION THRU BARRELS

HALF END ELEVATION



SECTION B-B
N.E. WING WALL



SECTION A-A
N.W., S.E. & S.W. WING WALLS

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	144	#6	43'-1"	
$a_1(E)$	164	#7	27'-8"	
$a_2(E)$	112	#4	8'-9"	
b(E)	46	#4	25'-0"	
$b_1(E)$	64	#4	22'-9"	
$b_2(E)$	150	#4	13'-9"	
d(E)	243	#4	5'-9"	
$d_1(E)$	18	#4	6'-8"	
h(E)	536	#5	27'-3"	
$h_1(E)$	8	#8	41'-9"	
$h_2(E)$	14	#7	41'-9"	
$h_3(E)$	69	#8	15'-0"	
$h_4(E)$	78	#8	8'-0"	
$h_5(E)$	16	#8	17'-9"	
$h_6(E)$	31	#8	12'-5"	
$h_7(E)$	14	#8	9'-0"	
$h_8(E)$	24	#4	4'-0"	
$h_9(E)$	15	#4	4'-0"	
s(E)	43	#4	5'-1"	
$s_1(E)$	129	#4	5'-3"	
v(E)	148	#6	12'-3"	
$v_1(E)$	148	#6	4'-2"	
$v_2(E)$	57	#5	11'-3"	
$v_3(E)$	16	#4	16'-6"	
$v_4(E)$	224	#5	12'-3"	
$v_5(E)$	224	#5	3'-9"	
Concrete Box Culverts			Cu. Yd.	388
Reinforcement Bars, Epoxy Coated			Lbs.	56190

DESIGNED	Jay D. Edwards
CHECKED	Mike D. Rolape
DRAWN	h.t. duong
CHECKED	JDE/MDR

Jan 15, 2009
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

CULVERT DETAILS
STRUCTURE NO. 031-2012

SHEET NO. 7	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11 SHEETS	761	104-BR-2	GREENE	32	30
			CONTRACT NO. 76987		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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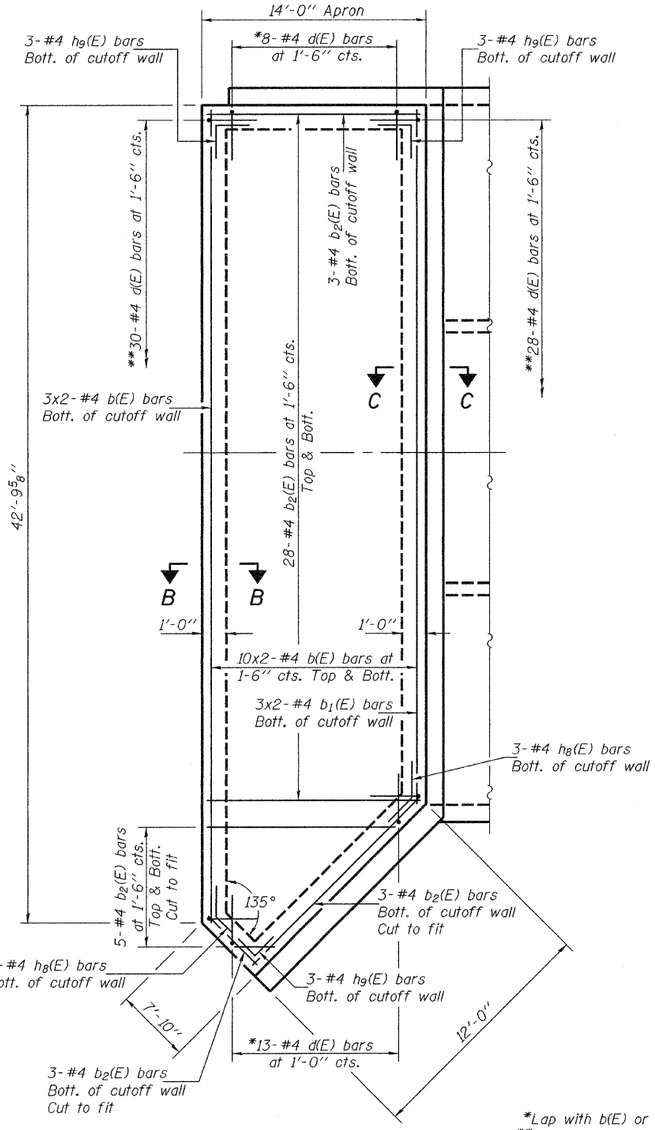
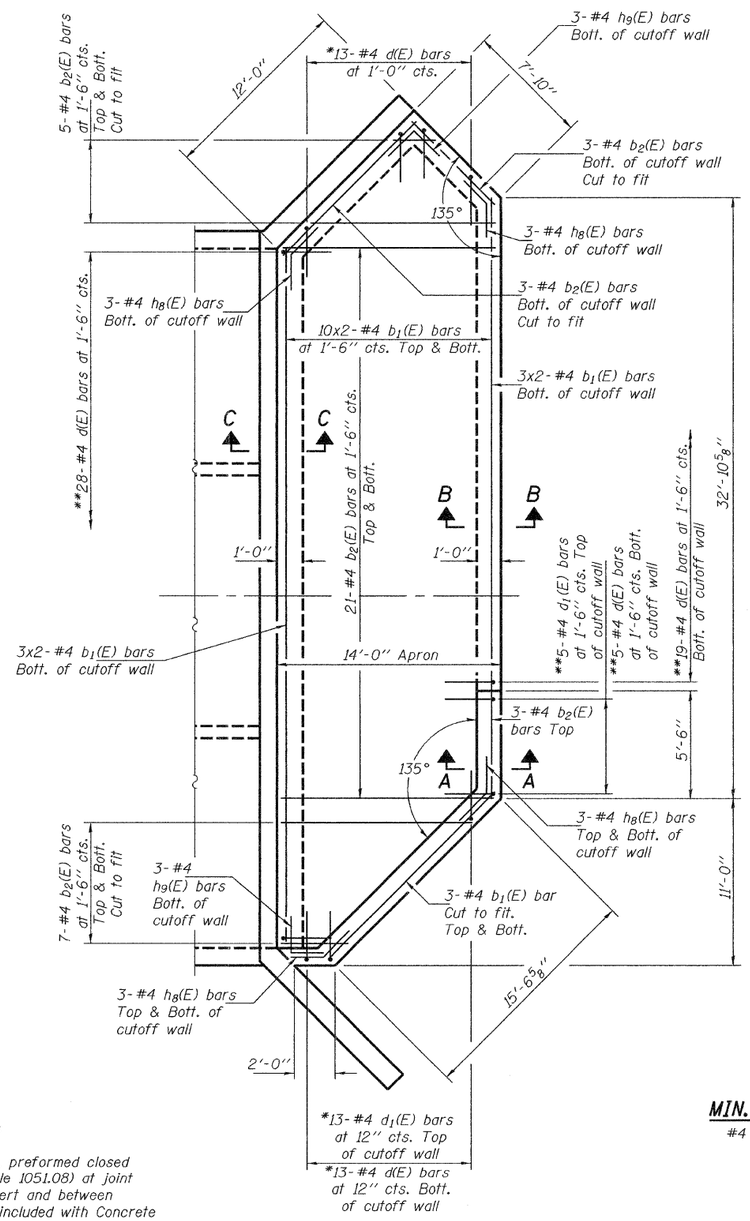
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

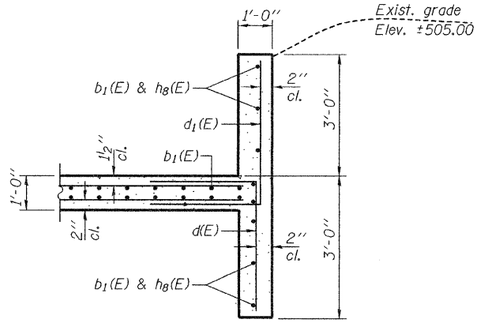


PLAN - NORTH APRON

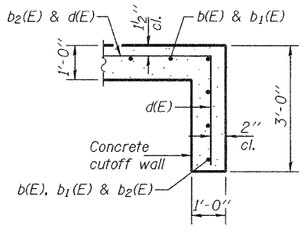


PLAN - SOUTH APRON

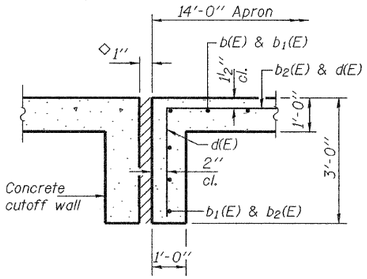
Z



SECTION A-A



SECTION B-B



SECTION C-C

*Lap with b(E) or b_1(E) bars
**Lap with b_2(E) bars
◇Provide 1" thick by 3' deep, preformed closed cell plastic joint filler (Article 1051.08) at joint between apron and box culvert and between apron and wingwalls. Cost included with Concrete Box Culvert.

MIN. BAR LAP
#4 bar = 1'-8"

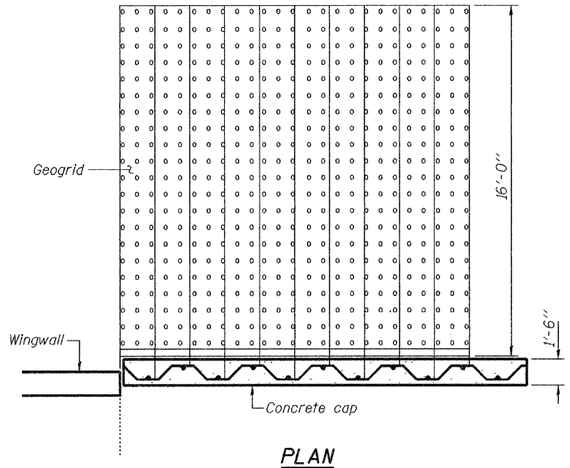
DESIGNED	Jay D. Edwards
CHECKED	Mike D. Rolape
DRAWN	h.t. duong
CHECKED	JDE/MDR

Jan 15, 2009
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

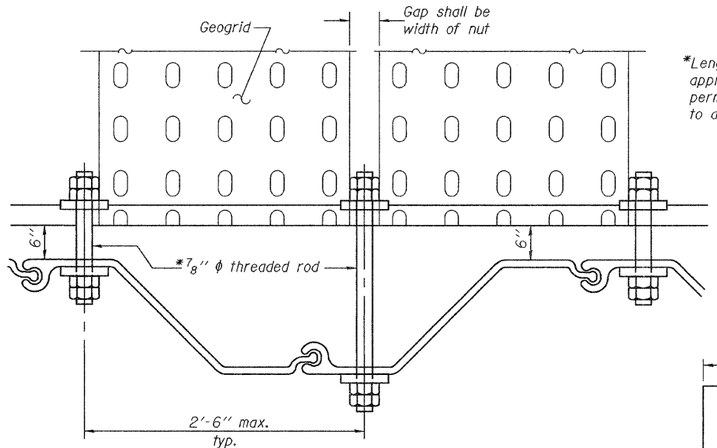
CULVERT DETAILS
STRUCTURE NO. 031-2012

SHEET NO. 8	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11 SHEETS	761	104-BR-2	GREENE	82	31
			CONTRACT NO. 76987		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

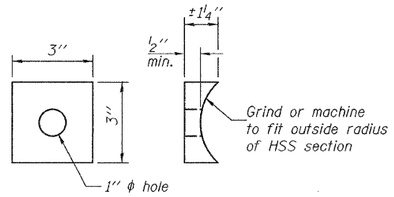


PLAN

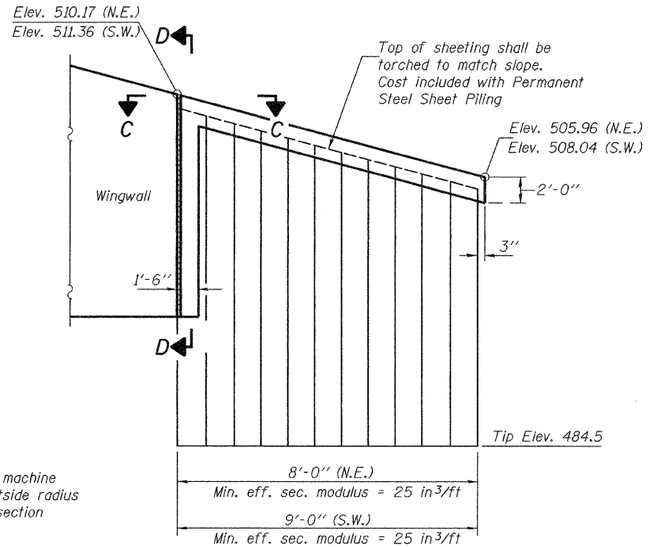


SECTION A-A

*Length to be determined to maintain approximate distance ±6" between permanent sheet piling and HSS 4.000 to allow clearance for geogrid installation.

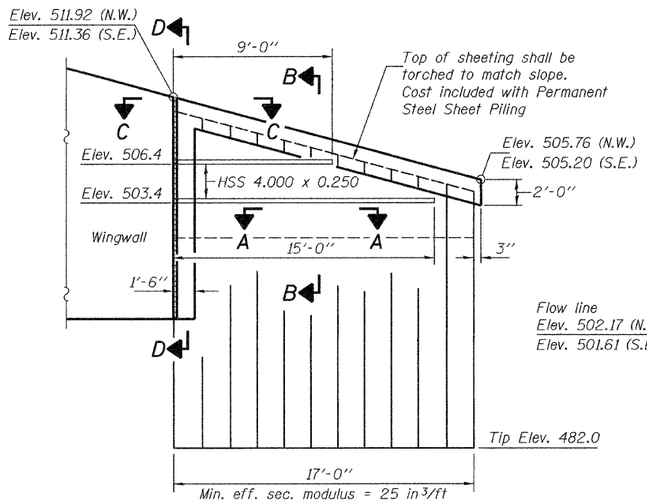


CONTOURED WASHERS



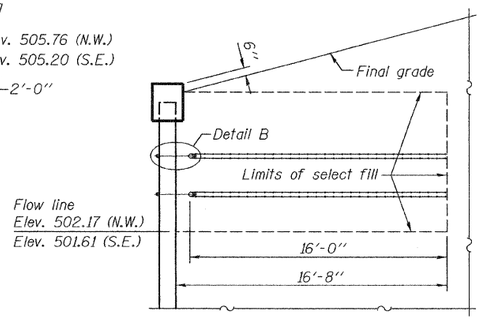
ELEVATION

N.E. & S.W. PERMANENT SHEET PILING

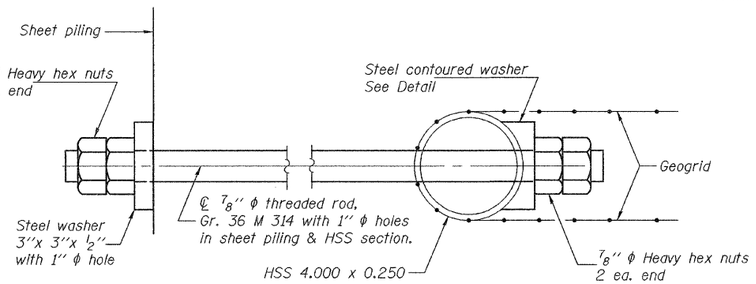


ELEVATION

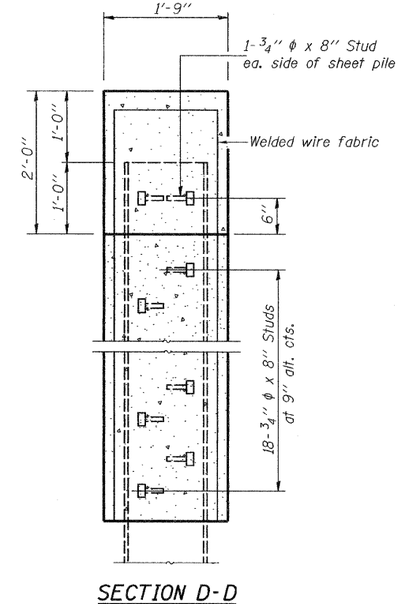
N.W. & S.E. PERMANENT SHEET PILING



SECTION B-B



DETAIL B

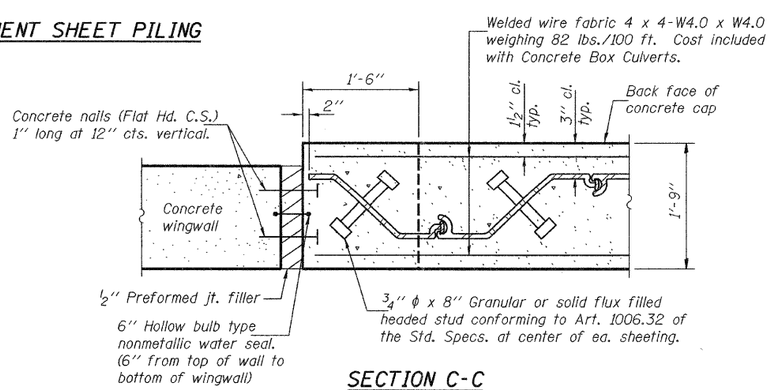


SECTION D-D

Notes: Hard driving may likely be encountered upon installation of the sheet piling to their required plan tip elevations. The Contractor shall provide the appropriate driving equipment for the soil conditions indicated in the boring logs. If sheet piling does not reach its design tip elevation, the Bureau of Bridges and Structures shall be notified.

The concrete cap for permanent sheet piling shall be measured and paid for as Concrete Box Culverts.

The cost of studs, concrete nails, water seal, and 1/2" PJF shall be included with Permanent Steel Sheet Piling.



SECTION C-C

NOTES FOR GEOGRID TIEBACK SYSTEM

1. Steel elements of geogrid tieback shall be Grade A36.
2. Fill material behind the permanent sheet piling shall be CA 5 or CA 7 according to Section 1004 of the Std. Specs. with limits as shown in Section B-B. The material shall be compacted with hand operated compaction equipment only, and no heavy compaction equipment is allowed.
3. Sheet piling wing portions shall be backfilled such that the permanent fill in front be placed at the same time as the permanent fill in back in order to minimize wall movement during construction.
4. When drilling 1" ϕ holes in sheet piling for 7/8" ϕ threaded rod, maintain clearance from bends in sheet piling to insure that 3" x 3" washer fits flush against sheet piling.
5. The Contractor shall supply Geogrid Soil Reinforcement with a Long Term Design Strength (LTDS) greater than 2k/ft per GRI GG4.

DESIGNED	Jay Edwards/ Brad Hessing
CHECKED	Mike D. Rolape
DRAWN	h.t. duong
CHECKED	JDE/MDR/BLH

Jan 15, 2009
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

PERMANENT SHEET PILING DETAILS
STRUCTURE NO. 031-2012

SHEET NO. 9	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11 SHEETS	761	104-BR-2	GREENE	32	32
			CONTRACT NO. 76987		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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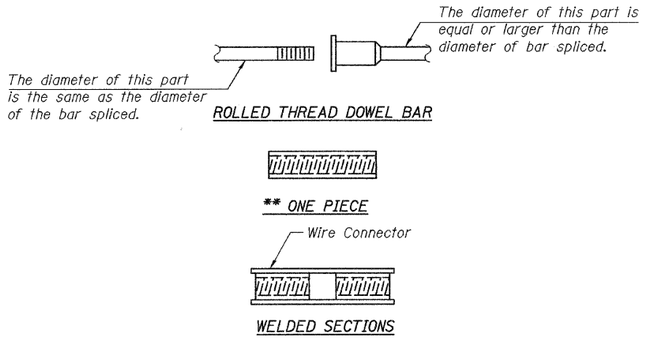
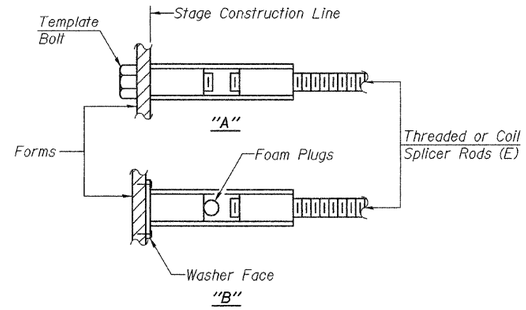
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



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.

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.

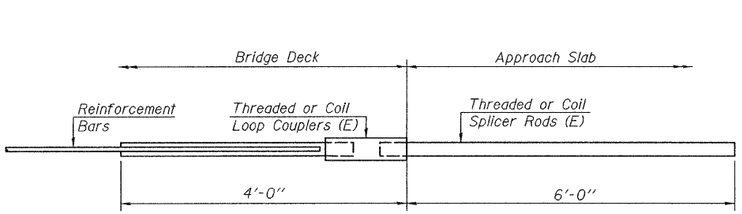
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

① Minimum Capacity (Tension in kips) = 1.25 x fy x A_t

② Minimum *Pull-out Strength (Tension in kips) = 0.66 x fy x A_t

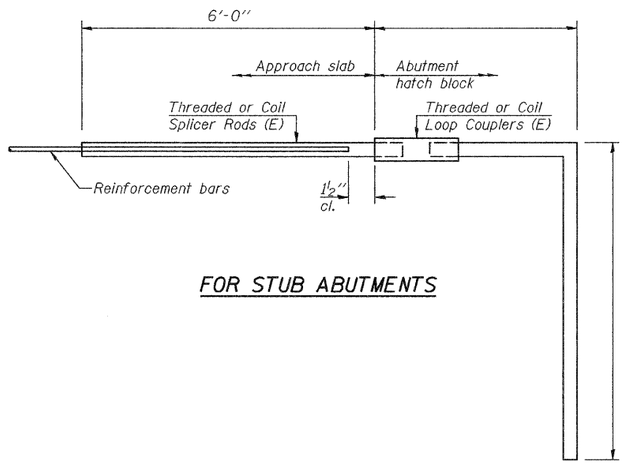
Where fy = Yield strength of lapped reinforcement bars in ksi.
A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

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	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



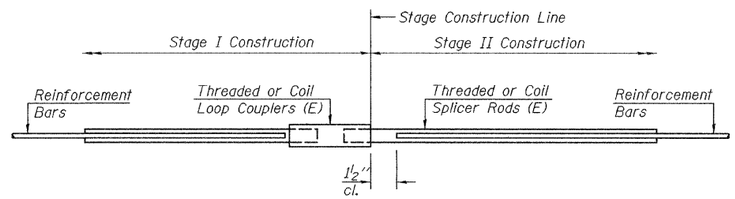
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



FOR STUB ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



STANDARD

Bar Size	No. Assemblies Required	Location
#5	268	Top, Bottom, Sides of culvert

DESIGNED	Jay D. Edwards
CHECKED	Mike D. Rolape
DRAWN	h.t. duong
CHECKED	JDE/MDR

BSD-1 5-16-08

Jan 15, 2009
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

BAR SPLICER ASSEMBLY DETAILS
STRUCTURE NO. 031-2012

SHEET NO. 10	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11 SHEETS	761	104-BR-2	GREENE	82	33
			CONTRACT NO. 76987		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2

Date 3/7/72

ROUTE FAP 761 DESCRIPTION IL 108 over Taylor Creek Branch LOGGED BY J. King

SECTION 104BR-2 LOCATION SW 14, SEC. 17, TWP. 10N, RNG. 10W, 3 PM

COUNTY Greene DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 031-0024 (E)/ 031-2012 (P)
Station 1068+35

BORING NO. #1 E. Abut
Station 1068+51
Offset 6.00ft Left
Ground Surface Elev. 518.3 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 503.3 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Drilled through bridge deck – Hung augers			
Ground Level 503.3			
Brown and Gray SAND and GRAVEL	15	NC	—
500.3			
Gray Mottled with Brown Silty CLAY	7	1.30 B	28
Gray Mottled with Brown Silty CLAY (continued)	7	1.30 B	26
495.3			
Gray CLAY	3	0.33 B	26
	5	0.39 B	34
490.3			
Gray Medium SAND with Gravel	14	NC	—
488.3			
Gray Clay TILL	30	4.85 S	11
	30	6.23 S	13
	44	5.89 S	8
	21	3.59 B	16

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 (AASHTO T206)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 2

Date 3/7/72

ROUTE FAP 761 DESCRIPTION IL 108 over Taylor Creek Branch LOGGED BY J. King

SECTION 104BR-2 LOCATION SW 14, SEC. 17, TWP. 10N, RNG. 10W, 3 PM

COUNTY Greene DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 031-0024 (E)/ 031-2012 (P)
Station 1068+35

BORING NO. #1 E. Abut
Station 1068+51
Offset 6.00ft Left
Ground Surface Elev. 518.3 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 503.3 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Gray Clay TILL (continued)	30	3.26 B	16
473.8			
Gray Medium SAND and GRAVEL	30	3.26 B	18
	100+	NC	—
	100+	NC	—
	100+	NC	—
465.8			
END OF BORING			

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 (AASHTO T206)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2

Date 3/7/72

ROUTE FAP 761 DESCRIPTION IL 108 over Taylor Creek Branch LOGGED BY J. King

SECTION 104BR-2 LOCATION SW 14, SEC. 17, TWP. 10N, RNG. 10W, 3 PM

COUNTY Greene DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 031-0024 (E)/ 031-2012 (P)
Station 1068+35

BORING NO. #2 W. Abut
Station 1068+22
Offset 5.50ft Right
Ground Surface Elev. 518.3 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 503.3 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Drilled through bridge deck – Hung augers			
Ground Level 504.8			
Gray Silty CLAY	8	0.49 B	25
	7	0.49 B	27
Gray Silty CLAY (continued)	6	0.59 B	28
496.8			
Gray Silty CLAY	4	0.33 B	29
	4	0.33 B	28
491.8			
Gray Silty Sandy CLAY	5	0.9 B	28
	5	0.33 B	28
486.8			
Gray Clayey Organic SILT	15	0.43 S	21
484.3			
Brown and Gray Medium SAND and GRAVEL	30	NC	—
481.8			
Gray Clay TILL	30	3.59 B	16

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 (AASHTO T206)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 2

Date 3/7/72

ROUTE FAP 761 DESCRIPTION IL 108 over Taylor Creek Branch LOGGED BY J. King

SECTION 104BR-2 LOCATION SW 14, SEC. 17, TWP. 10N, RNG. 10W, 3 PM

COUNTY Greene DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 031-0024 (E)/ 031-2012 (P)
Station 1068+35

BORING NO. #2 W. Abut
Station 1068+22
Offset 5.50ft Right
Ground Surface Elev. 518.3 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 503.3 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Gray Clay TILL (continued)	18	3.78 B	16
	28	3.59 B	19
474.3			
Green Gray Sandy SILT	100+	—	16
470.8	100+	—	16
Gray SAND and GRAVEL 469.8			
Gray SHALE	100+	—	15
465.8	100+	—	12
END OF BORING			

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 (AASHTO T206)

SOIL BORING LOGS
STRUCTURE NO. 031-2012

SHEET NO. 11	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11 SHEETS	761	104-BR-2	GREENE	82	34
			CONTRACT NO. 76987		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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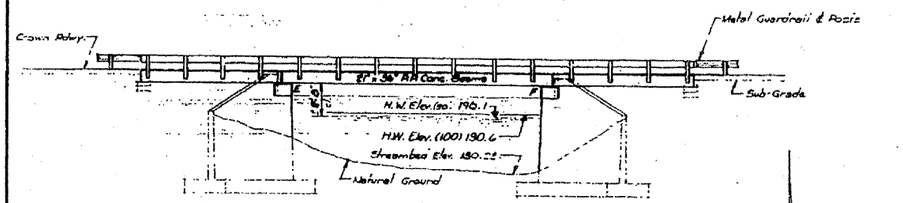
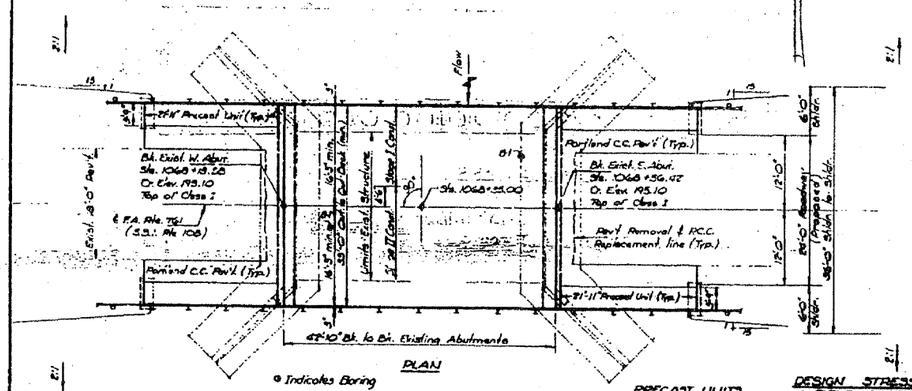
B.M.: "Cut in N.E. Wingwall Left Sta. 1068+35 Elev. 196.64

Existing Structure: @ Sta. 1068+22., Built in 1929 as S.B.I. Rte 106 Section 10A B. Existing Superstructure to be removed & replaced with RR Conc. Deck Beams. Utilizing stage construction. Abutments to be widened to accommodate the new Superstructure.
Structure No. 031-0024
Stage Construction shall be utilized so as to maintain oneway traffic at all times.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



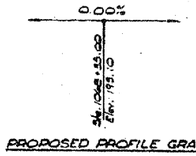
ELEVATION



PLAN

STATION 1068+35
REBUILT 19 BY
STATE OF ILLINOIS
FA. RT. 761 SEC. 104-BR-1
FA. PROJ.
LOADING H15-10
STR. I.D. 031-0024

LIGHT PLATE
(See Std. 2113)



PROPOSED PROFILE GRADE

		Green	28	7

SHEET NO. 1 OF 8 SHEETS

GENERAL NOTES

See the proposal for Boring Data.

All structural steel shall be shop painted with two coats of basic lead silico chromate paint.

Expansion guards which are not cast in the precast unit shall be fabricated and erected in accordance with Article 503.07(c) of the Standard Specs. and are included in quantity of Structural Steel.

It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.

The top surface of the beams shall be finished in accordance with Article 505.04 of the Standard Specs. except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners.

Expansion bolts shall consist of self drilling expansion anchors and ⅞"ø x 12" hooked bolts.

Reinforcement bars in the field units shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.

TOTAL BILL OF MATERIAL

Item	Unit	Super.	Sub.	Total
Bituminous Concrete Surface Course Class 1	Tons	15.7		15.7
Portland Cement Concrete Pavement (10")	Sq. Yds.	37		37
Pavement Fabric	Sq. Yds.	37		37
Removal of Existing Superstructure	Each	1	1	1
Concrete Removal	Cu. Yds.		9.9	9.9
Expansion Bolts 3/4"	Each	34	34	68
Class 1 Concrete	Cu. Yds.	7	20.5	27.2
PCC Deck Beams (21")	Sq. Ft.	1400		1400
Waterproofing Membrane Sys.	Sq. Yds.	163		163
Structural Steel	Lbs.	1300		1300
Steel Railing Type 3	Lin. Ft.	175		175
Reinforcement Bars	Lbs.	110	1240	1350
Light Pole	Each	1		1
Pavement Removal (PCC. Replacement, Type 1 (10")	Sq. Yds.	10		10
Temporary Guardrail	Lin. Ft.	43		43
Guardrail, & Transitions (MP)	Lin. Ft.	39		39
Portland Cement Mortar Patching Concrete	Lin. Ft.	414		414
Precast Concrete Bridge Slab	Sq. Ft.	329		329

PRECAST UNITS

f'c = 4,500 psi
f'c = 1,800 psi
fs = 20,000 psi
n = 6

DESIGN STRESSES

FIELD UNITS

f'c = 3,800 psi
fy = 60,000 psi (Reinf.)
fs = 20,000 psi (Struct.)

PRECAST PRESTRESSED UNITS

f'c 6,000 psi
f'ci 4,000 psi
fs 170,000 psi (½" ϕ Strand)
fsi 186,900 psi (½" ϕ Strand)

LOADING HS 20-44

Allow 65 #/sq. ft. for future wearing surface.
Design Specification: AASHTO 1973.
1974, 1975, 1976 and 1977 Interim Specifications.

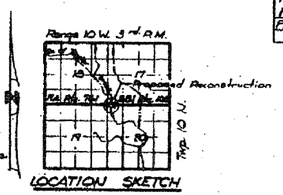
WATERWAY INFORMATION

Drainage Area	=	4.65 Sq. Mi.
Required Opening	=	346 Sq. Ft.
Existing Opening	=	346 Sq. Ft.
Proposed Opening	=	346 Sq. Ft.
Q100	=	3000 c.f.s.
Q50	=	2300 c.f.s.
Created Head	=	1.5'

DESIGNED L.Wilson, Jr.
CHECKED Ralph E. Anderson
DRAWN C.Hart
CHECKED R.E.A.

STANDARD
PASSED
APPROVED

STATE OF ILLINOIS 2287



LOCATION SKETCH

GENERAL PLAN & ELEVATION
FA. Rte. 761 (S.B.I. Rte. 106) Over
Branch of TAYLOR CREEK
FA. Rte. 761 SECTION 104-BR-1
GREENE COUNTY
Sta. 1068+33.00

0024

FOR INFORMATION ONLY

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

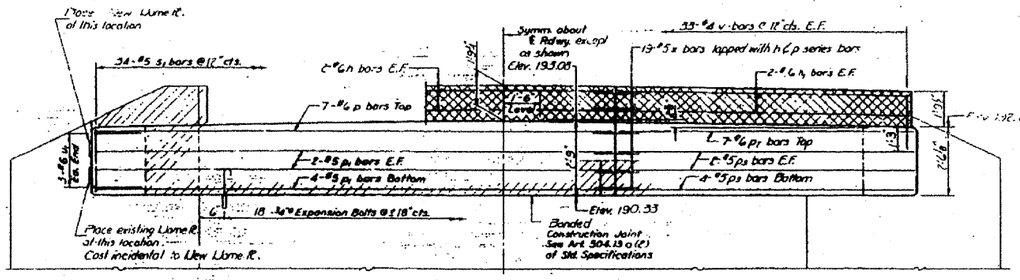
STAGE CONSTRUCTION DETAILS (SN 031-2012)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	35
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

					SHEET NO. 8
A.A.R. 761	104 (BR-1)	Greene	23	14	8 SHEETS



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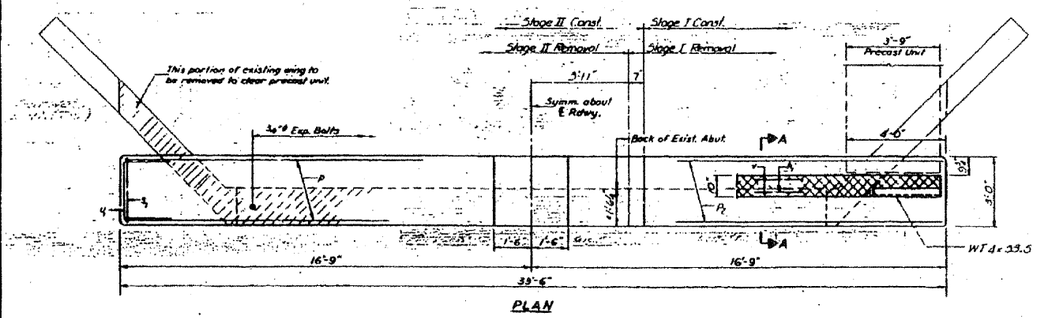
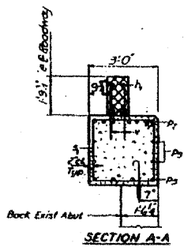
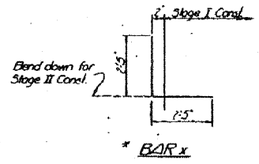


PLAN

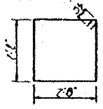


SECTION A-A

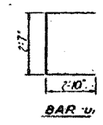


* BAR x

* x Bars shall conform to the requirements of AASHTO M-31 or M-53 except the minimum yield strength shall be not less than 39,000 psi, nor more than 42,000 psi.



BAR s1



BAR u1

NOTES:
Hatched area indicates Concrete Removal. Reinforcement extending into removed area shall be cleaned and incorporated into the new construction.
Cross hatched area shall be poured after beams are in place.
Expansion bolts shall be anchored in sound concrete.
All edges shall have standard ¾" chamfers except as noted.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	4	#6	12'0"	—
h1	4	#6	14'0"	—
p	7	#6	11'0"	—
p2	8	#5	14'0"	—
p1	7	#6	12'0"	—
p3	8	#3	16'0"	—
s1	34	#3	10'7"	[
u1	6	#6	8'3"	[
x	19	#3	8'10"	L
v	66	#4	1'11"	—
Class X Concrete			Cu Yds	11.6
Reinforcement Bars			Lbs.	1490
Expansion Bolts ¾"ø			Each	18
Concrete Removal			Cu Yds	4.8

WEST ABUTMENT
F.A.R.T. 761 SEC 104-BR-1
GREENE COUNTY
STA. 104+35.00

0024

10-A-2 (11-15-99) Expansion

FOR INFORMATION ONLY

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

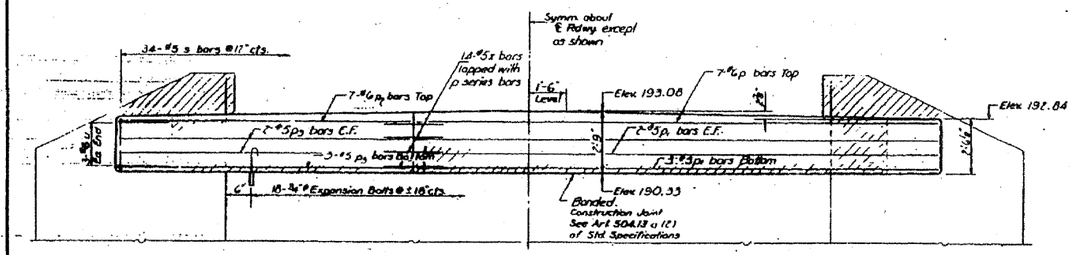
STAGE CONSTRUCTION DETAILS (SN 031-2012)

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

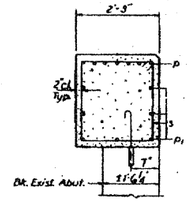
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	36
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

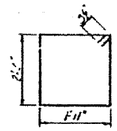
					SHEET NO. 7
761	104-BR-1	Greene	23	13	6 SHEETS



ELEVATION



SECTION A-A



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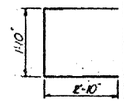

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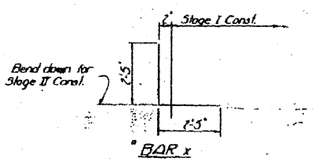
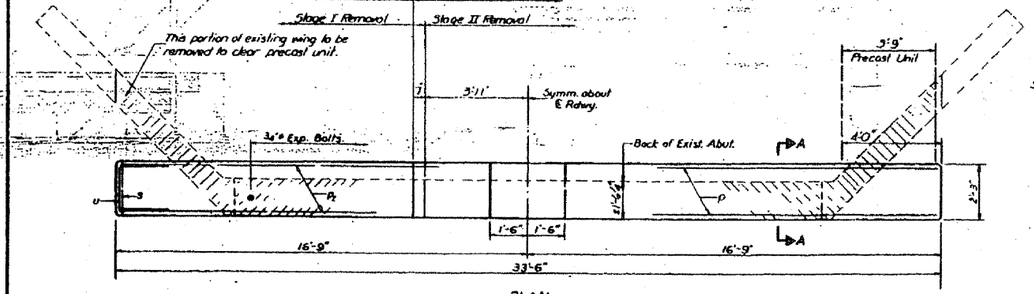


BAR x



PLAN

" x Bars shall conform to the requirements of AASHTO M-31 or M-53 except the minimum yield strength shall be not less than 33,000 psi, nor more than 45,000 psi.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
s	7	#6	21'0"	
ρ1	7	#8	21'0"	
ρ2	7	#4	21'0"	
ρ3	7	#3	21'0"	
ρ	34	#5	9'7"	D
u	6	#6	7'6"	L
x	14	#3	4'10"	L
Class X Concrete			Cu. Yds.	7.3
Reinforcement Bars			Lbs.	1030
Expansion Bolts ¾"ø			Each	18
Concrete Removal			Cu. Yds.	3.1

NOTE
Hatched area indicates Concrete Removal. Reinforcement extending into removed area shall be cleaned and incorporated into the new construction.
Expansion bolts shall be anchored in sound concrete.
All edges shall have standard ¾" chamfers except as noted.

Designed - Ralph E. Anderson
3D
Checked - REA

M-A-1 (5-15-12) Filed

EAST ABUTMENT
FAP RTE 761 SEC 104BR-1
GREENE COUNTY
STA. 1060+35.00

0024

FOR INFORMATION ONLY

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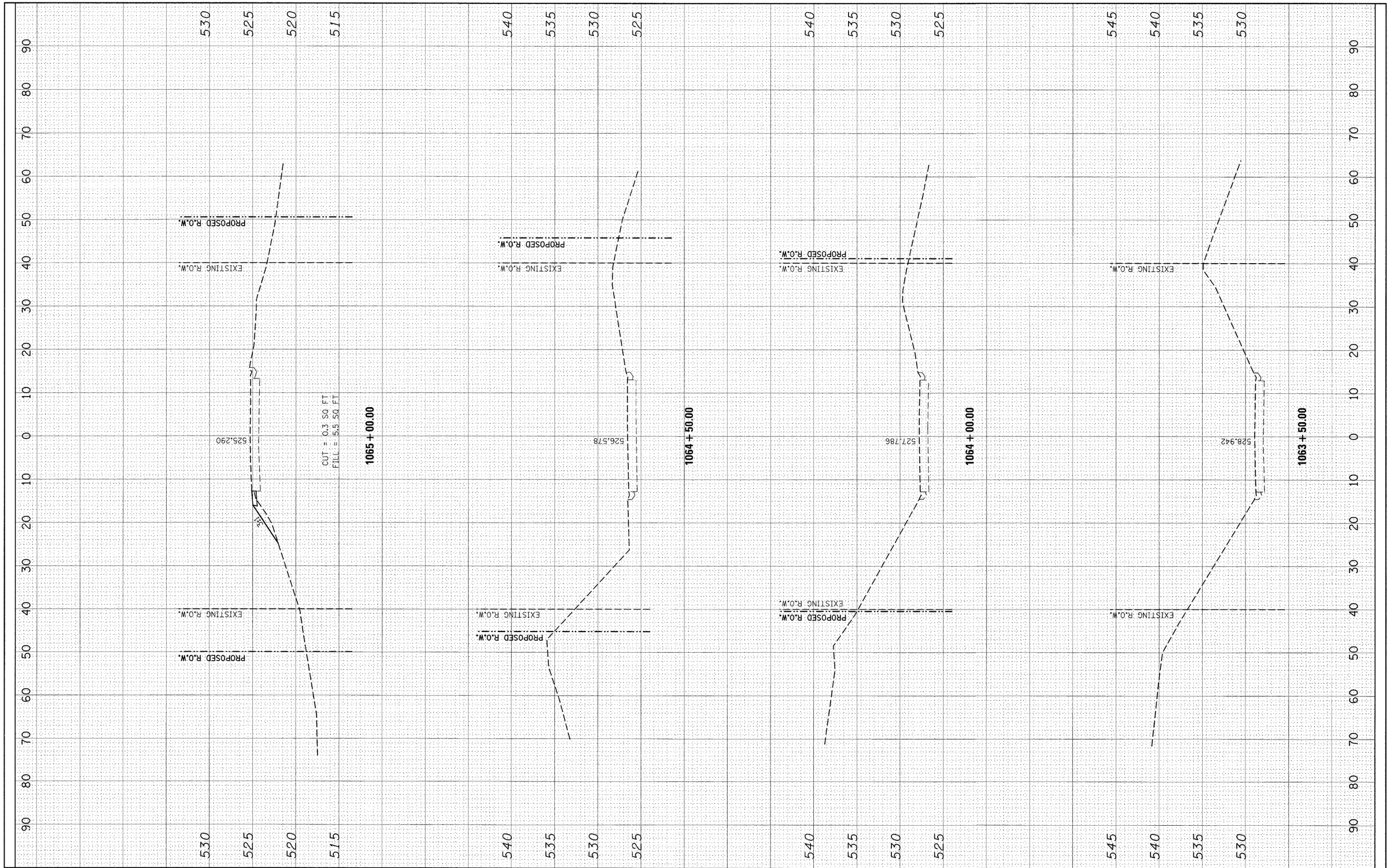
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS (SN 031-2012)

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	37
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION (SN 031-2012)

SCALE: | SHEET NO. 1 OF 5 SHEETS | STA. 1063+50.00 TO STA. 1065+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	38
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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	PLOTTED		
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	AREAS CHECKED		

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	PLOTTED		
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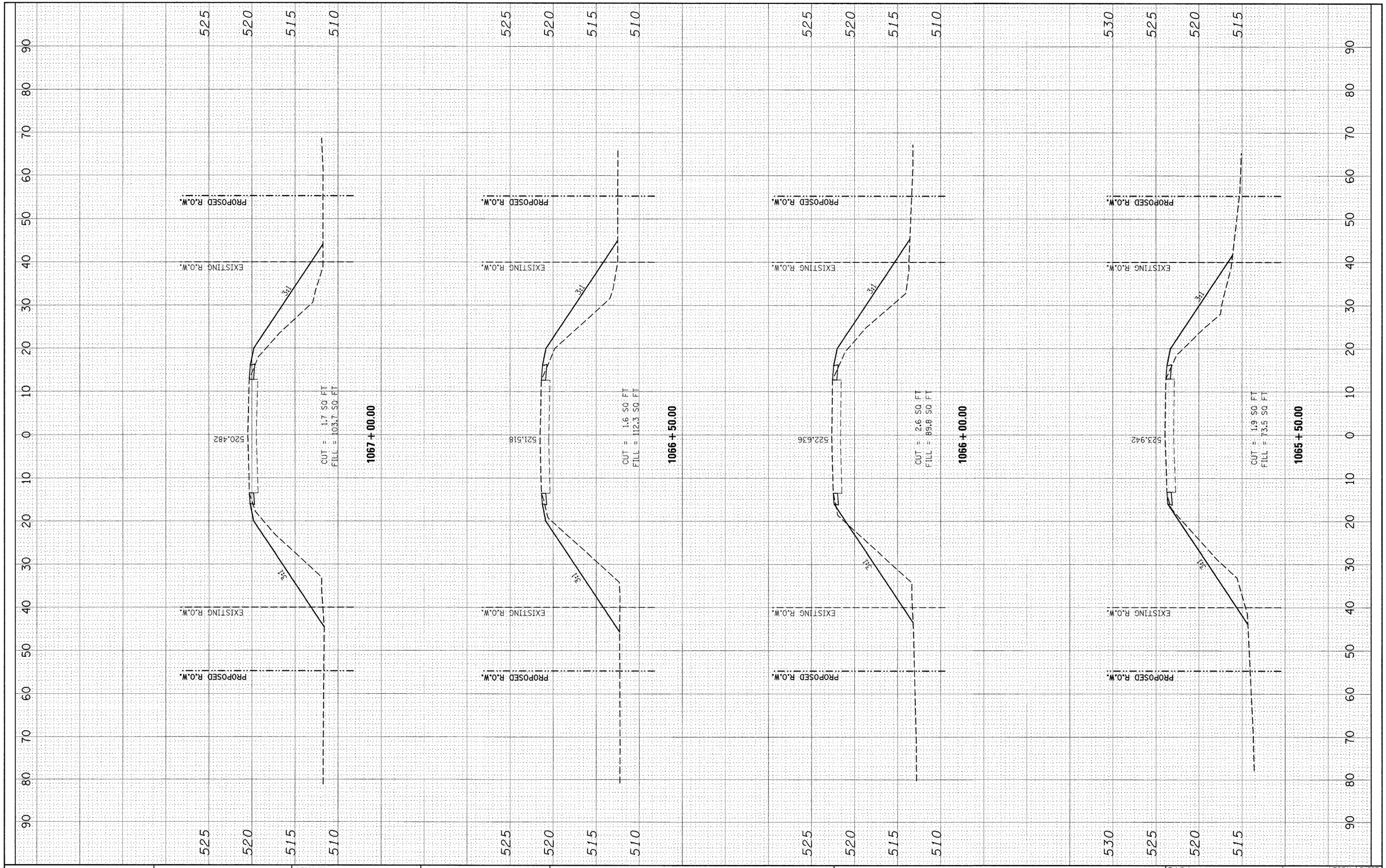

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION (SN 031-2012)

SCALE: | SHEET NO. 2 OF 5 SHEETS | STA. 1065+50.00 TO STA. 1067+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	39
		CONTRACT NO. 76987		
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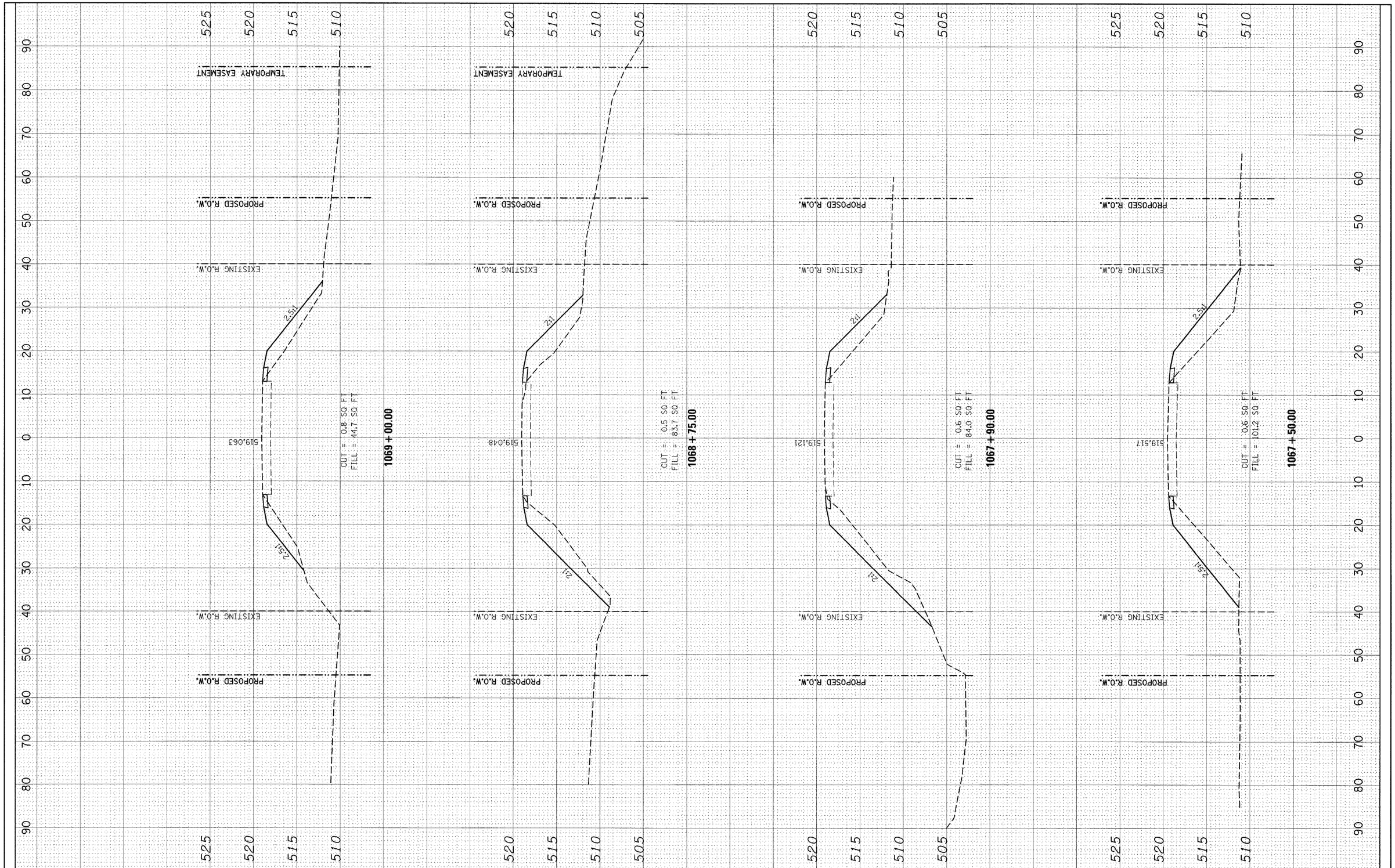

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION (SN 031-2012)

SCALE: | SHEET NO. 3 OF 5 SHEETS | STA. 1067+50.00 TO STA. 1069+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
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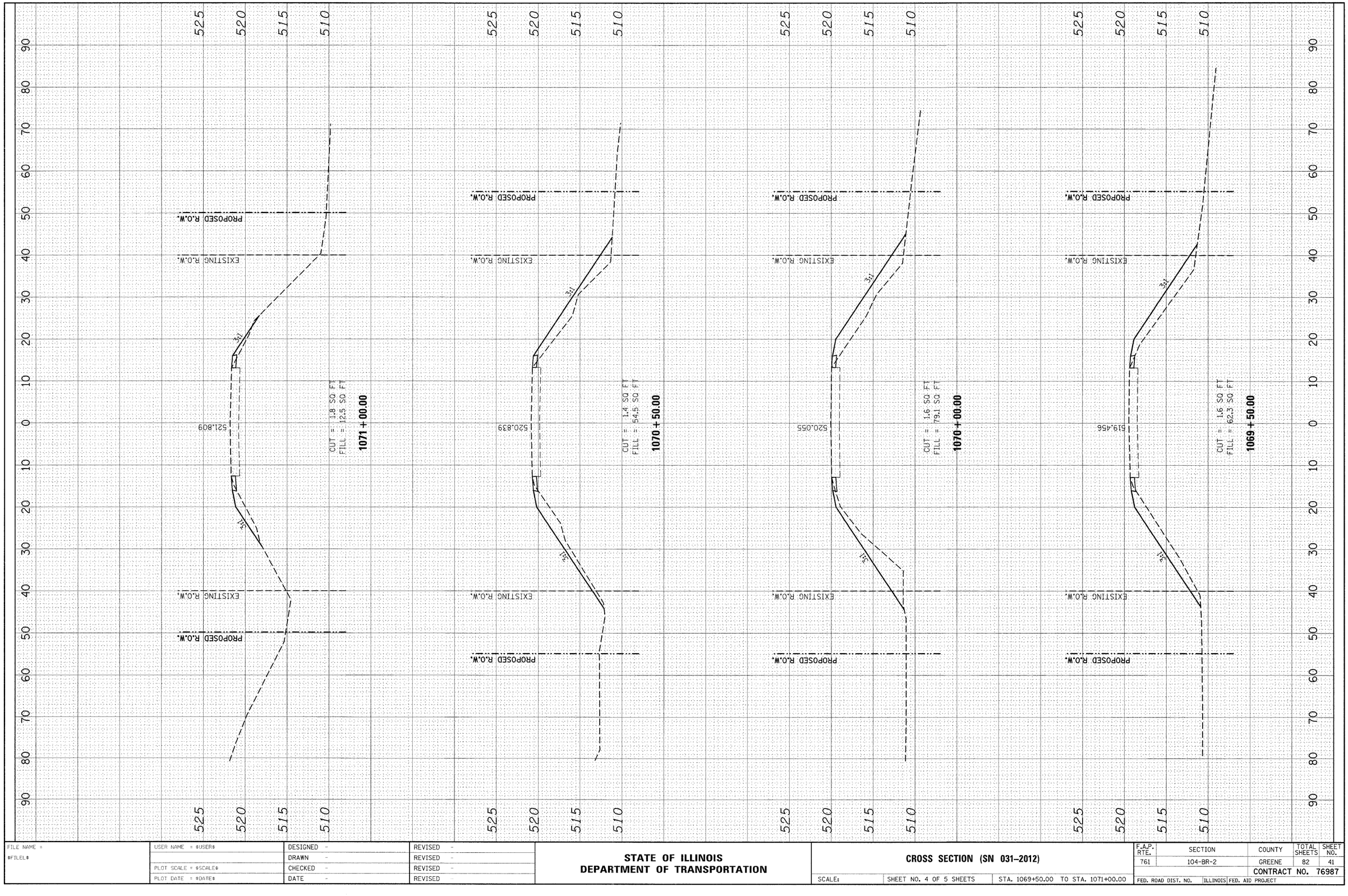
		CONTRACT NO. 76987	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



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	BY	DATE
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PLOTTED		
TYPED/LATE		
AREAS		
AREAS CHECKED		

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SURVEYED		
PLOTTED		
TYPED/LATE		
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION (SN 031-2012)

SCALE: | SHEET NO. 4 OF 5 SHEETS | STA. 1069+50.00 TO STA. 1071+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	41
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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PLOTTED		
TYPED		
AREAS		
AREAS CHECKED		

BY	DATE

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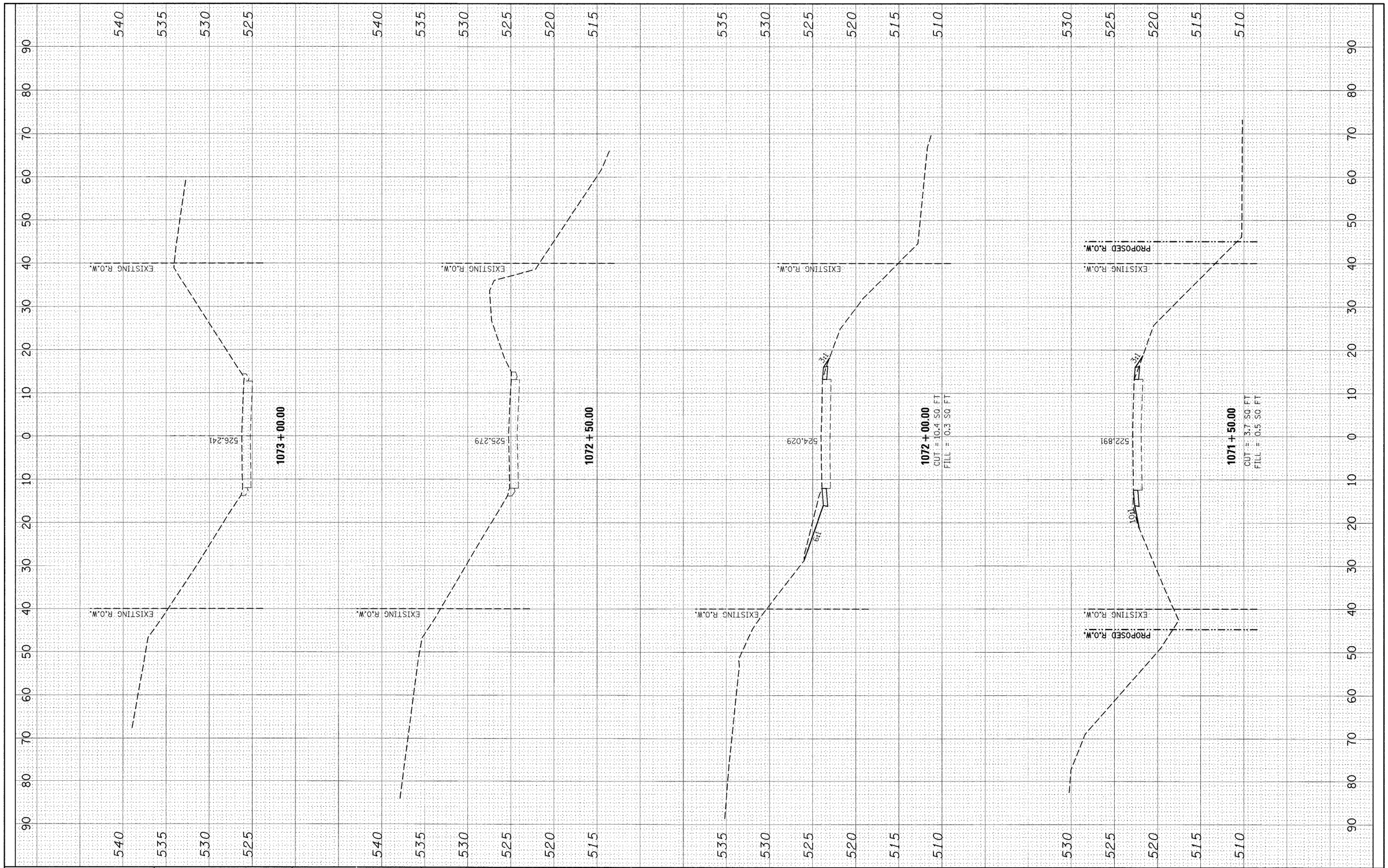

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION (SN 031-2012)

SCALE: | SHEET NO. 5 OF 5 SHEETS | STA. 1071+50.00 TO STA. 1073+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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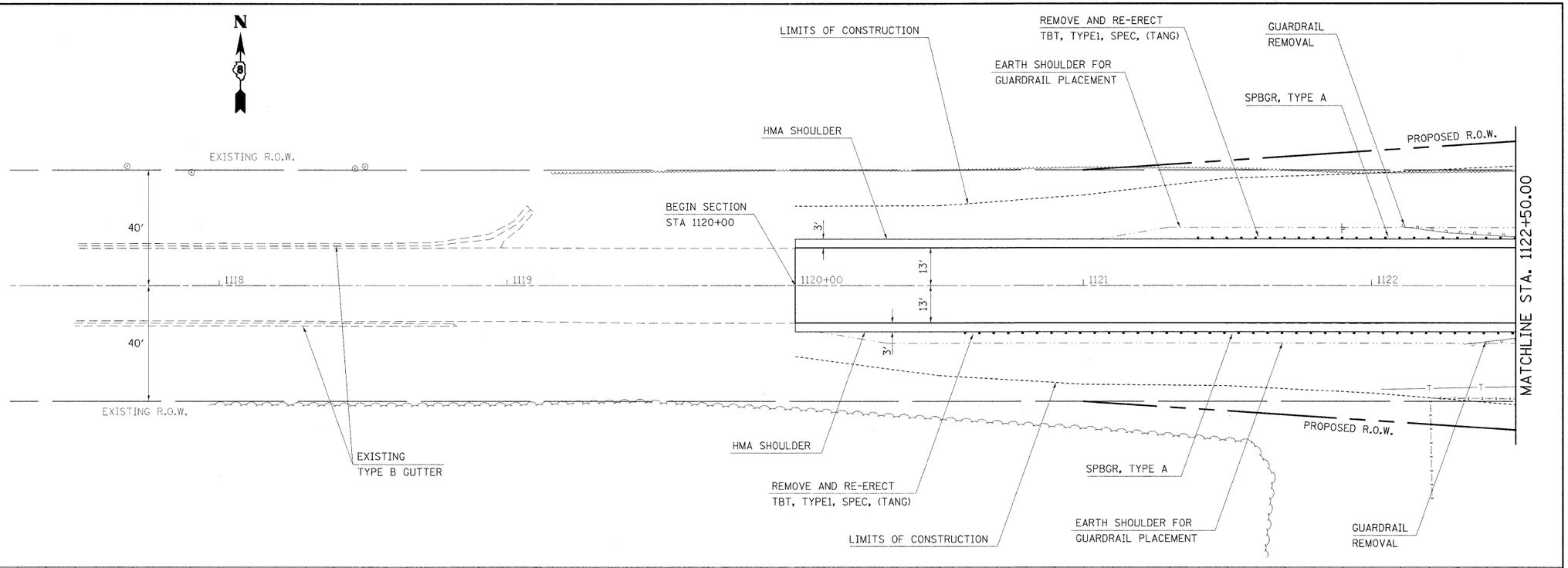

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SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
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PLOTTED
PROFILE CHECKED
S.M. NOTED
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
BY
DATE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 108 PLAN/PROFILE (SN 031-0042)

SCALE: 20 | SHEET NO. 1 OF 2 SHEETS | STA. 1117+30 | TO STA. 1122+50

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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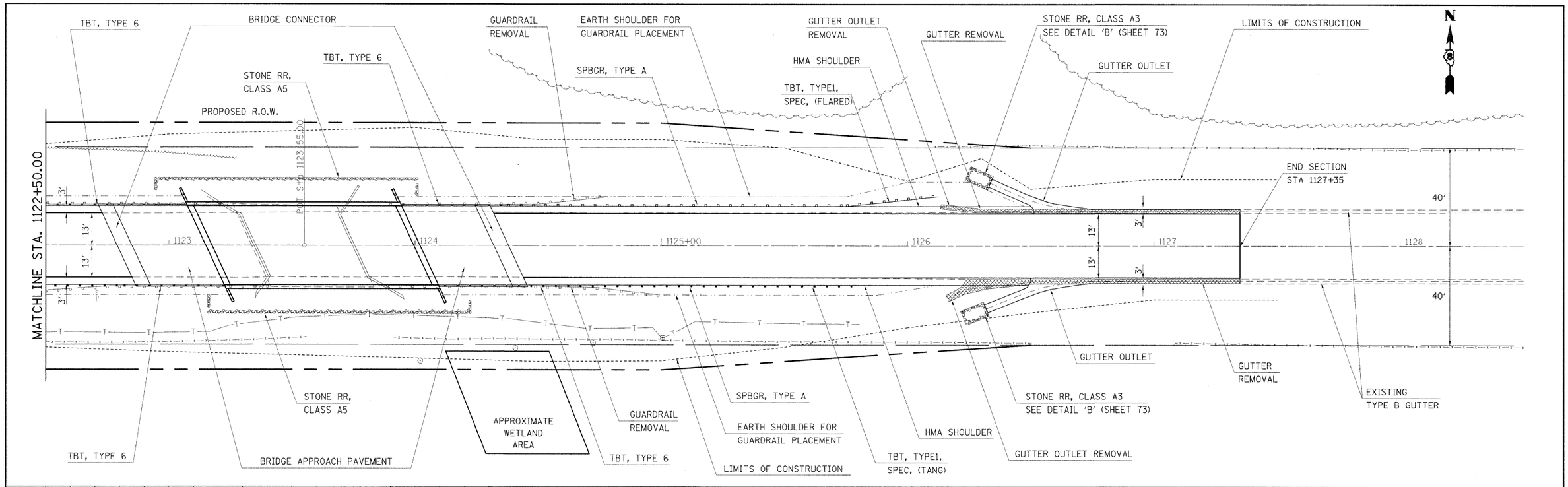

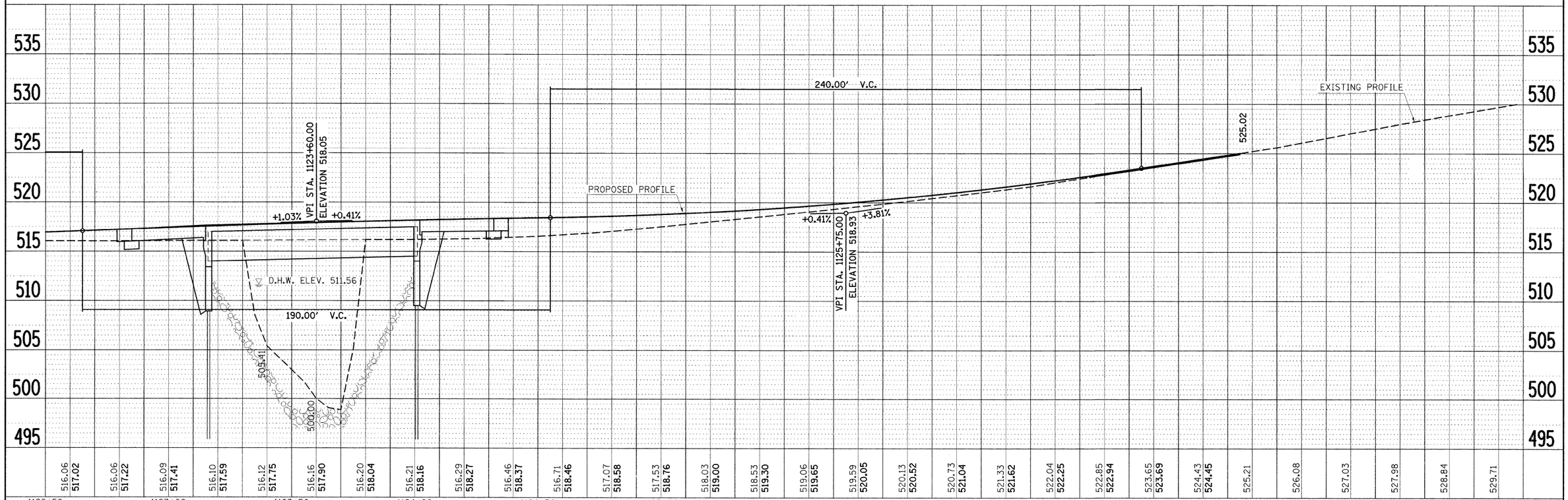

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 108 PLAN/PROFILE (SN 031-0042)

SCALE: 20 | SHEET NO. 2 OF 27 SHEETS | STA. 1122+50 | TO STA. 1128+50

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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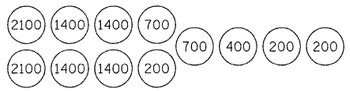


SAND MODULE IMPACT ATENUATOR LAYOUT
(IF OPTION USED)

SEQUENCE OF CONSTRUCTION - STAGE I

SEE STANDARD 701321 FOR LAYOUT OF TRAFFIC CONTROL.

PLACE "HMA BASE COURSE WIDENING, 9 INCH" FOR 3 FT WIDENING AS SHOWN ON PLANS.

PLACE 512.5 FT TEMPORARY CONCRETE BARRIER AND 2 EACH IMPACT ATTENUATORS, TEMPORARY.

REMOVE SKIP-DASH AND SOLID EDGE PAVEMENT MARKING BETWEEN STOP BARS.

SEQUENCE OF CONSTRUCTION - STAGE II

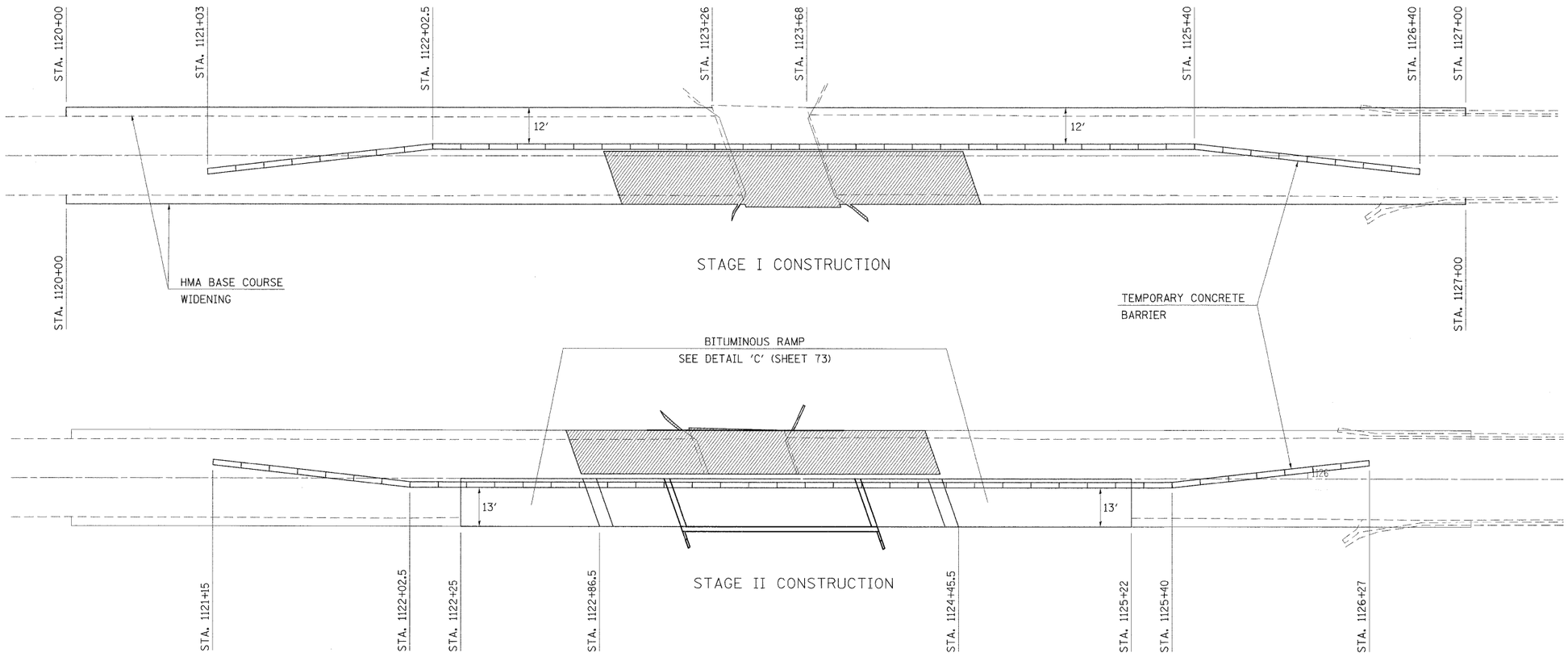
SEE STANDARD 701321 FOR DETAILS NOT SHOWN ON PLANS.

PLACE A 46 FT HOT-MIX ASPHALT RAMP ON THE WEST END OF THE STRUCTURE AND A 77 FT HOT-MIX ASPHALT RAMP ON THE EAST END OF THE STRUCTURE.

PLACE 'HMA BASE COURSE WIDENING, 9 INCH FOR 3 FT WIDENING AS SHOWN ON PLANS.

PLACE TRAFFIC BARRIER TERMINAL, TYPE 6 AND TEMPORARY GUARDRAIL ON BOTH ENDS OF STRUCTURE.

RELOCATE 512.5 FT OF TEMPORARY CONCRETE BARRIER AND RELOCATE 2 EACH IMPACT ATTENUATORS, TEMPORARY.



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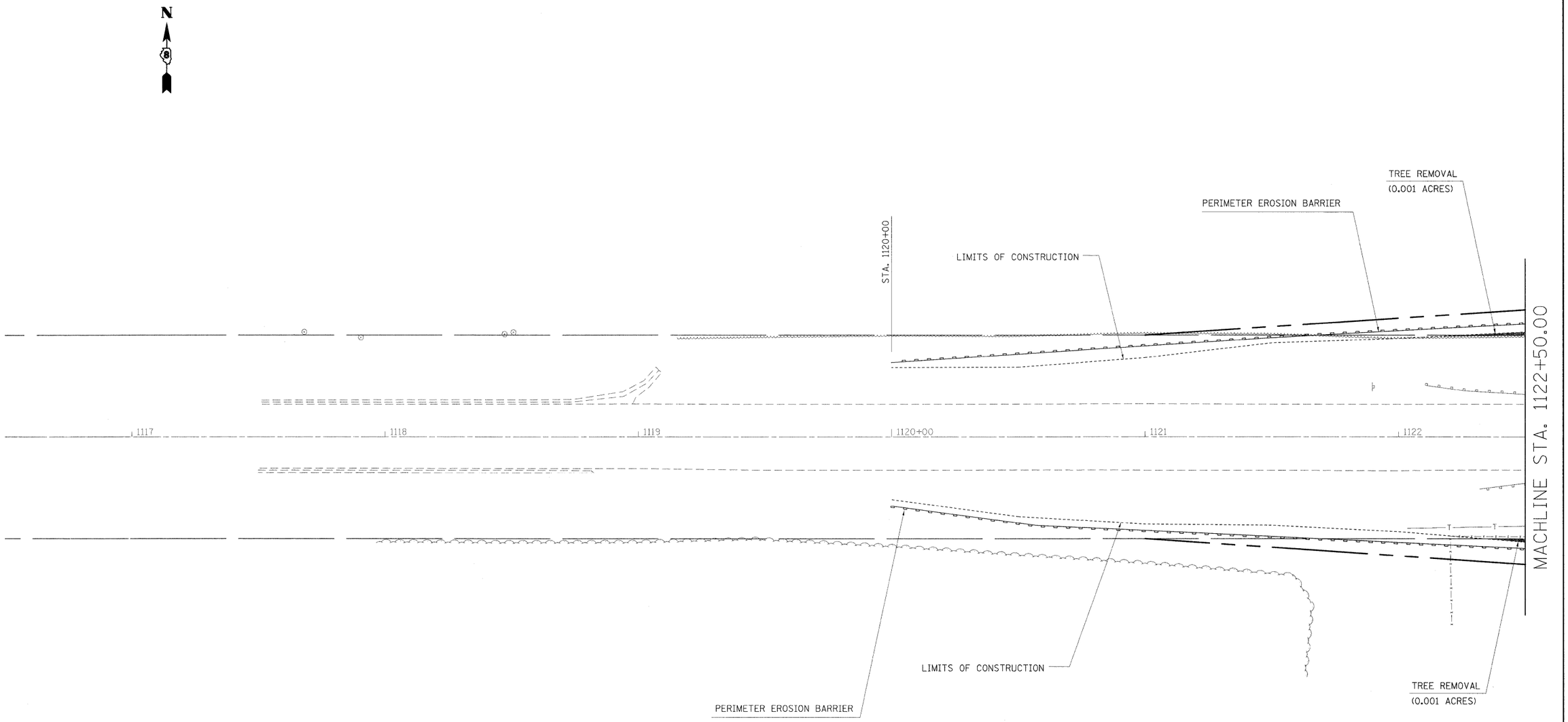
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS (SN 031-0042)

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	45
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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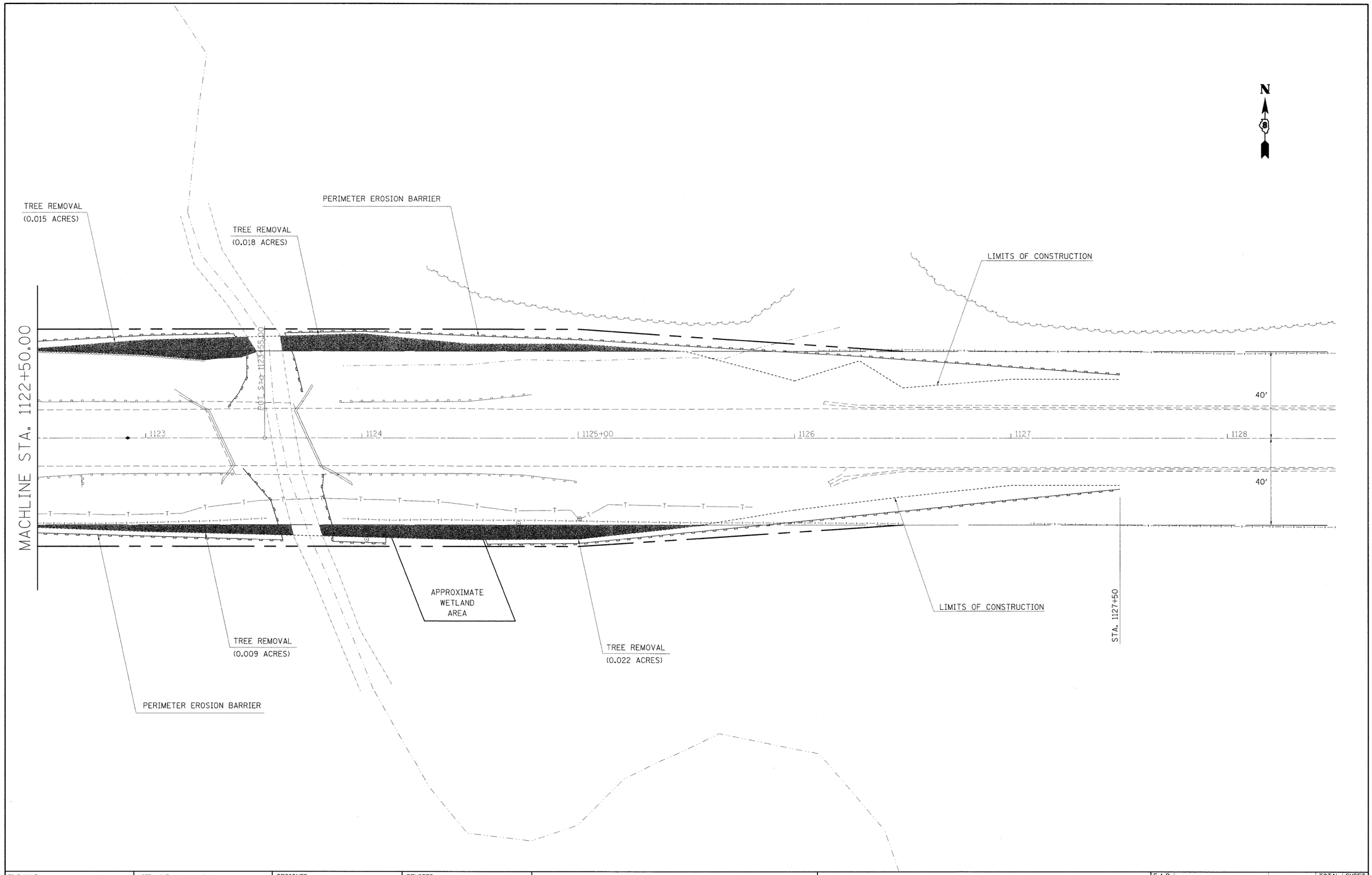
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL SHEET (SN 031-0042)

SCALE: 20 | SHEET NO. 1 OF 2 SHEETS | STA. 1116+50 TO STA. 1122+50

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	78	46
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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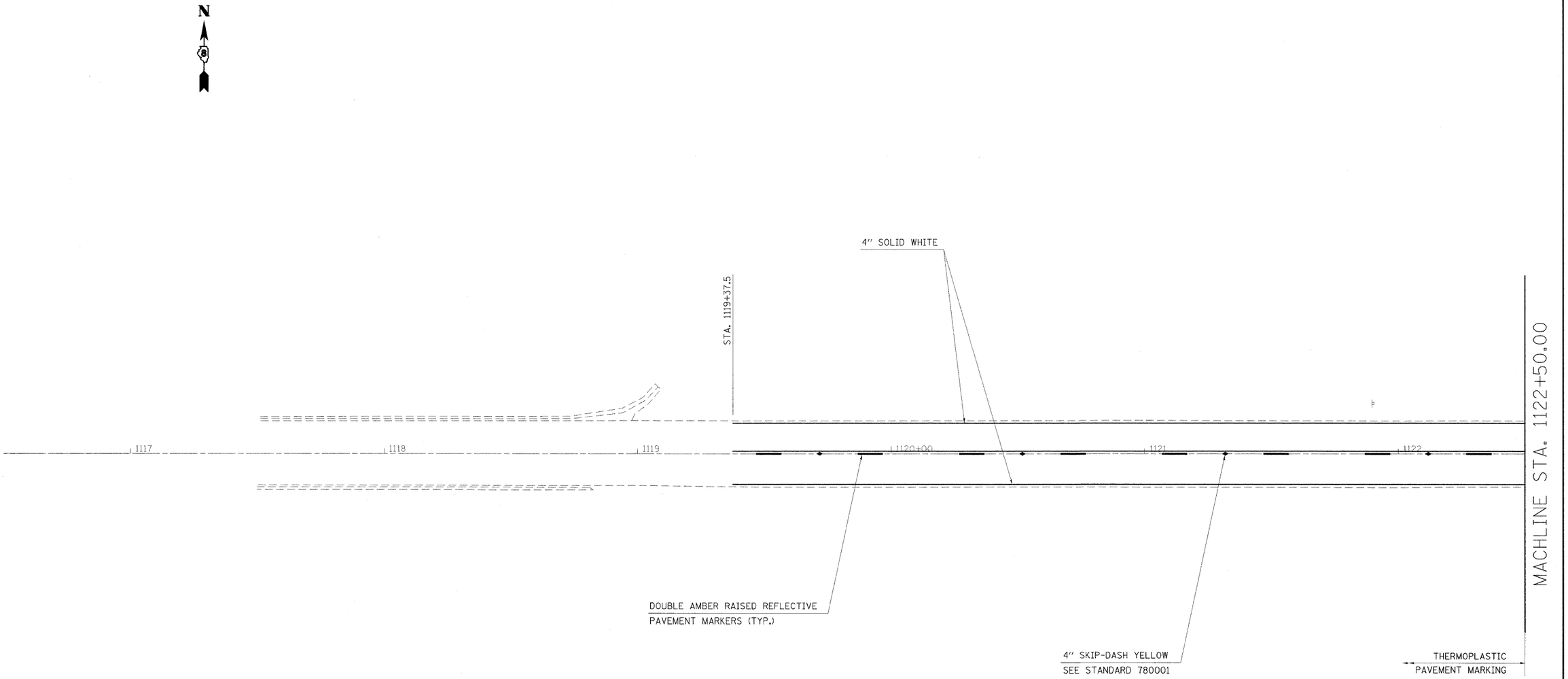
	PLOT DATE = 12/11/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL SHEET (SN 031-0042)

SCALE: 20 | SHEET NO. 2 OF 2 SHEETS | STA. 1122+50 TO STA. 1128+50

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	47
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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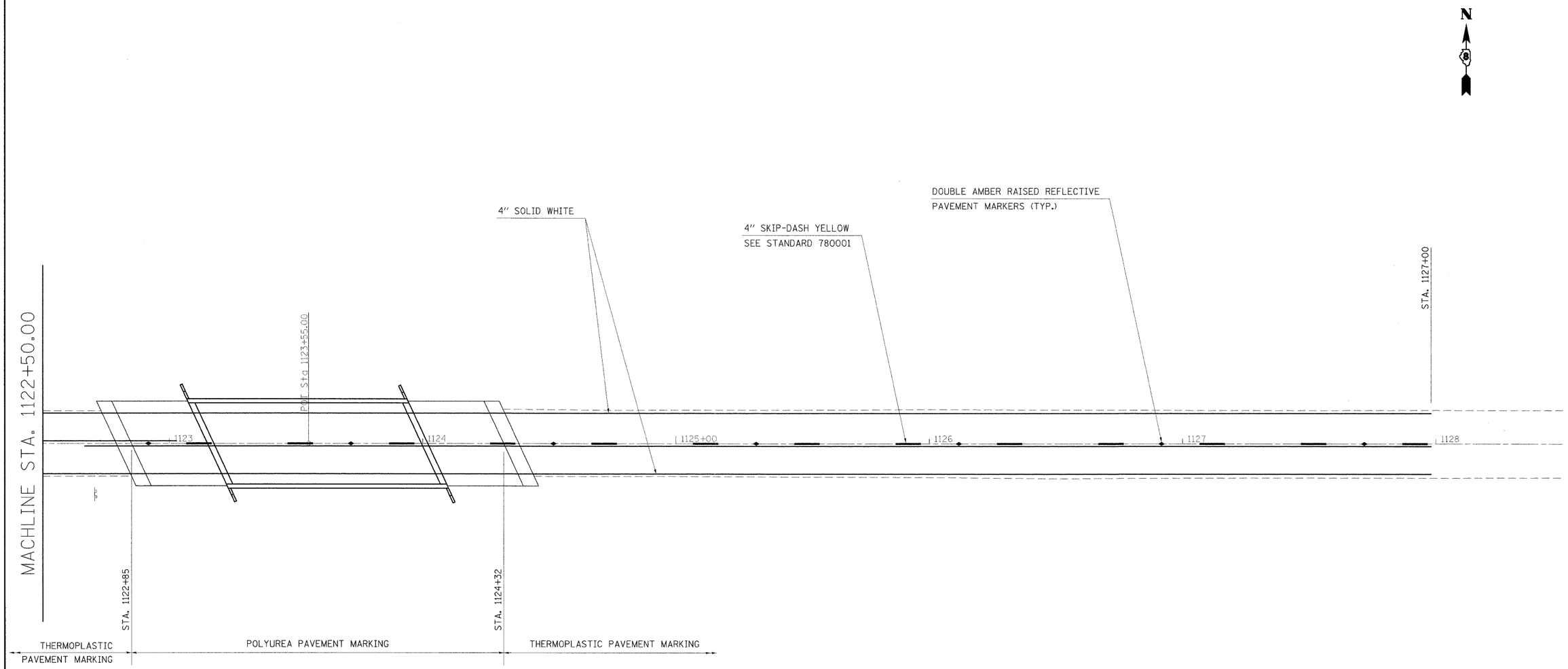
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 12/10/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING (SN 031-0042)

SCALE: 20 | SHEET NO. 1 OF 2 SHEETS | STA. 1116+50 | TO STA. 1122+50

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	48
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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	PLOT DATE = 12/10/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING (SN 031-0042)

SCALE: 20 | SHEET NO. 2 OF 2 SHEETS | STA. 1122+50 TO STA. 1128+50

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	49
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Bench Mark: Chiseled "□" on top of northwest wingwall on existing structure. Elevation 514.757

Existing Structure: S.N. 031-0026, originally built in 1928 as SBI 108, Section 104-B. The original structure consisted of single span concrete T beam structure on closed abutments. In 1968 the substructure and superstructure were widened with precast deck beams. The back to back abutment length is 43'-1½" and the out to out bridge width is 33'-0". The existing structure is to be removed and replaced. Traffic is to be maintained utilizing stage construction.

No salvage.

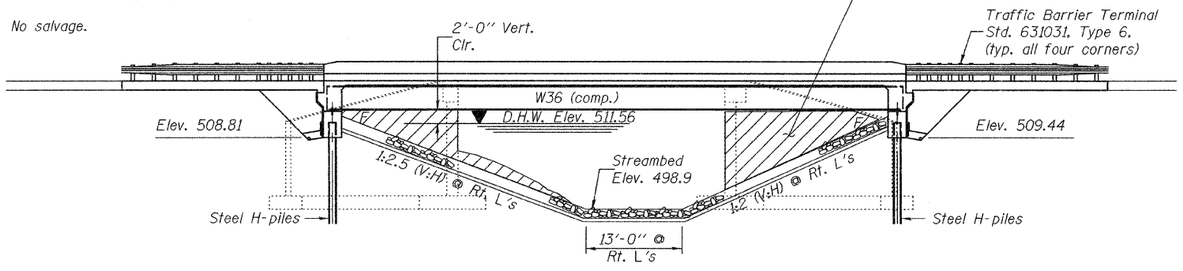
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 761	104-BR-2	GREENE	82	50
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

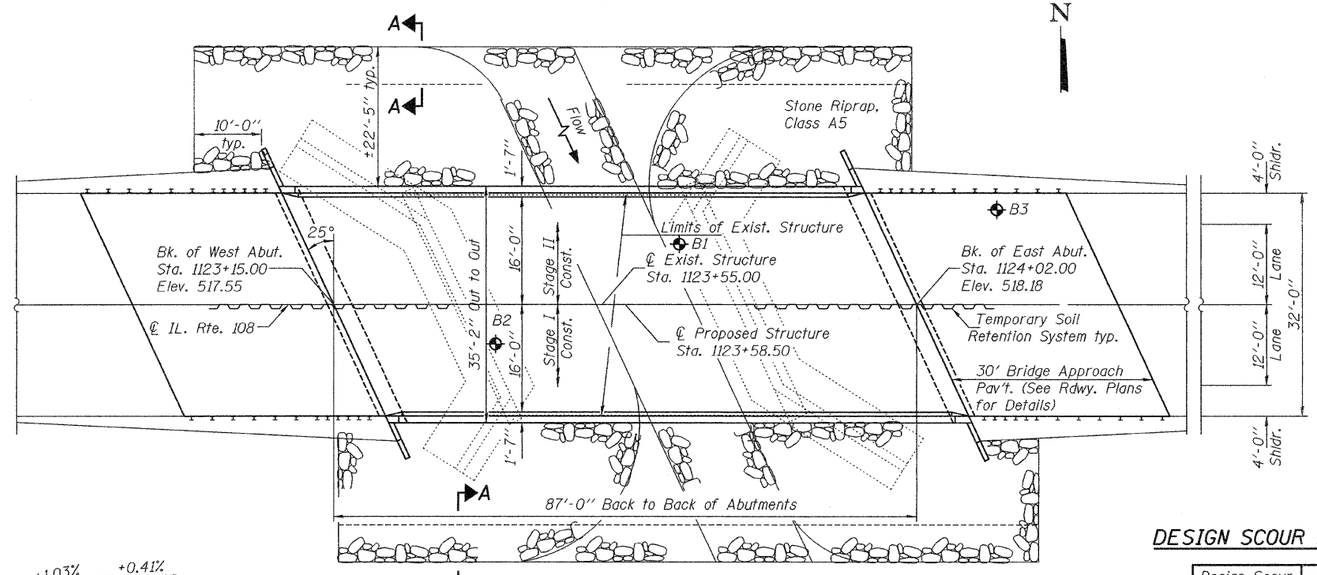
SHEET NO. 1
20 SHEETS

Contract #76987

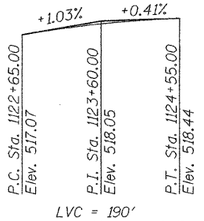
Hatched areas indicate excavation between existing abutments and the new abutments. For quantities of Pavement Removal and Excavation, see Roadway Plans.



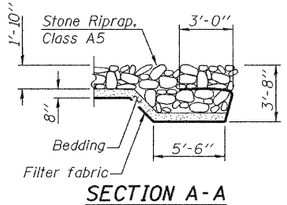
ELEVATION



PLAN



PROFILE GRADE
(along ℄ F.A.P. Rte. 761)



SECTION A-A

DESIGNED	Stephen Ryan
CHECKED	Michael Relyea
DRAWN	W.D. Collins BML
CHECKED	SMR / MDR

JANUARY 22, 2009
EXAMINED — ENGINEER OF BRIDGE DESIGN
PASSED — ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS · ANTHONY E. ANDERSON · 081-004625 · SPRINGFIELD · LICENSED STRUCTURAL ENGINEER

EXPIRES 11-30-2010

INDEX OF SHEETS

GENERAL NOTES

Fasteners shall be AASHTO M164 Type 3 bolts. Bolts $\frac{3}{4}$" in. ϕ, holes $\frac{15}{16}$" in. ϕ, unless otherwise noted.

Calculated weight of Structural Steel = 115,780 lbs.

All structural steel shall be AASHTO M270 Grade 50W.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Those areas shall be primed in the shop with a Department approved zinc rich primer. No field painting shall be required. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".

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

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.

The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractors responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		161.2	161.2
Stone Riprap, Class A5	Sq. Yd.		861	861
Filter Fabric	Sq. Yd.		861	861
Removal of Existing Structures	Each	1		1
Structure Excavation	Cu. Yd.		72.7	72.7
Concrete Structures	Cu. Yd.		44.0	44.0
Concrete Superstructure	Cu. Yd.	125.7		125.7
Bridge Deck Grooving	Sq. Yd.	382		382
Protective Coat	Sq. Yd.	290		290
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	1044		1044
Reinforcement Bars, Epoxy Coated	Pound	24,680	6,380	31,060
Bar Splicers	Each	337	18	355
Driving Piles	Foot		780	780
Furnishing Steel Piles HP12x84	Foot		780	780
Test Pile Steel HP12x84	Each		2	2
Temporary Soil Retention System	Sq. Ft.		592	592
Name Plates	Each	1		1
Geocomposite Wall Drain	Sq. Yd.		81.0	81.0
Pipe Underdrains for Structures, 4"	Foot		168.0	168.0
Anchor Bolts, 1"	Each	24		24
Concrete Encasement	Cu. Yd.		4.2	4.2
Asbestos Bearing Pad Removal	Each	22		22

STATION 1123+58.5
BUILT 20 BY
STATE OF ILLINOIS
FAP ROUTE 761 - SECTION 104-BR-2
LOADING HL93
STRUCTURE NO. 031-0042

NAME PLATE
See Std. 515001

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut	E. Abut.
	505.81	506.44

LOADING HL 93
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
2007 LRFD Bridge Design Specifications, 4th. Edition

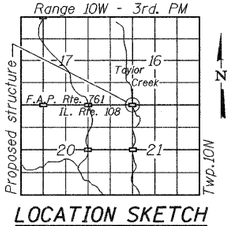
WATERWAY INFORMATION

Drainage Area = 4.74 — Low Grade Elev. 516.04 @ Sta. 1124+84

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	1,267	292	405	510.60	0.27	0.17	510.87	510.77
Design	50	2,089	326	461	511.56	0.83	0.55	512.39	512.11
Base	100	2,467	339	482	511.92	1.08	0.70	513.00	512.62
Overtopping									
Max. Calc.	500	3,406	367	533	512.72	1.72	1.04	514.44	513.76

DESIGN STRESSES
f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)
f_y = 50,000 psi (M270 Grade 50W)

SEISMIC DATA
Seismic Performance Zone (SPZ) = 1
Bedrock Acceleration Coefficient (A) = 0.06g
Site Coefficient (S) = 1.0



LOCATION SKETCH

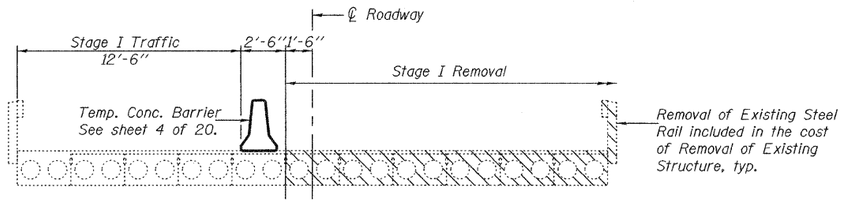
GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 108 OVER
TAYLOR CREEK BRANCH
F.A.P. ROUTE 761 - SECTION 104-BR-2
GREENE COUNTY
STATION 1123+58.50
STRUCTURE NO. 031-0042

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

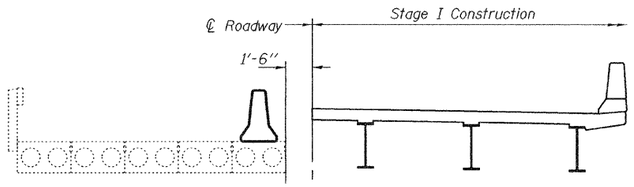
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 761	104-BR-2	GREENE	82	51
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 2
20 SHEETS

Contract #76987



STAGE I REMOVAL



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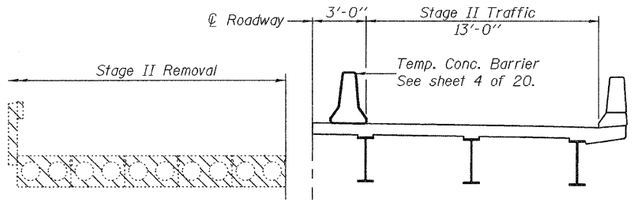
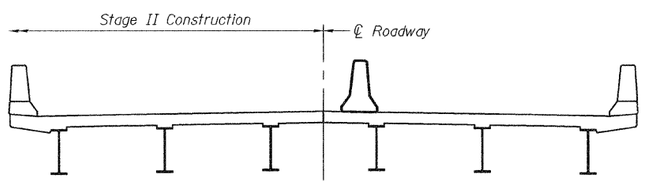
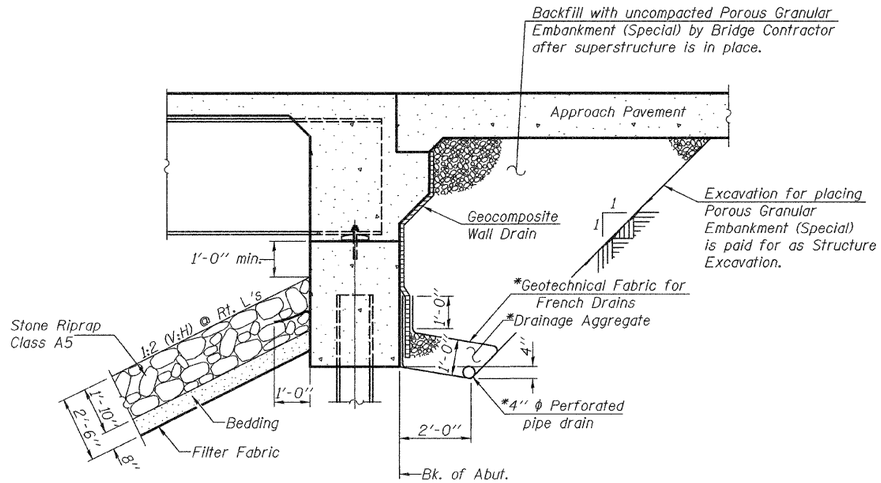


STAGE II REMOVAL



STAGE II CONSTRUCTION



SECTION THRU INTEGRAL ABUTMENT

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

*Included in the cost of Pipe Underdrains for Structures, 4".

Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

DESIGNED	Stephen M. Ryan
CHECKED	Michael D. Rolape
DRAWN	BECKY M. LEACH
CHECKED	SMR/MDR

January 22, 2008

EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN

PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

Notes:
All staging cross sections are looking East.
Hatched area indicates Removal of Existing Concrete Structures.
For quantity of Temporary Concrete Barrier, see Roadway Plans.

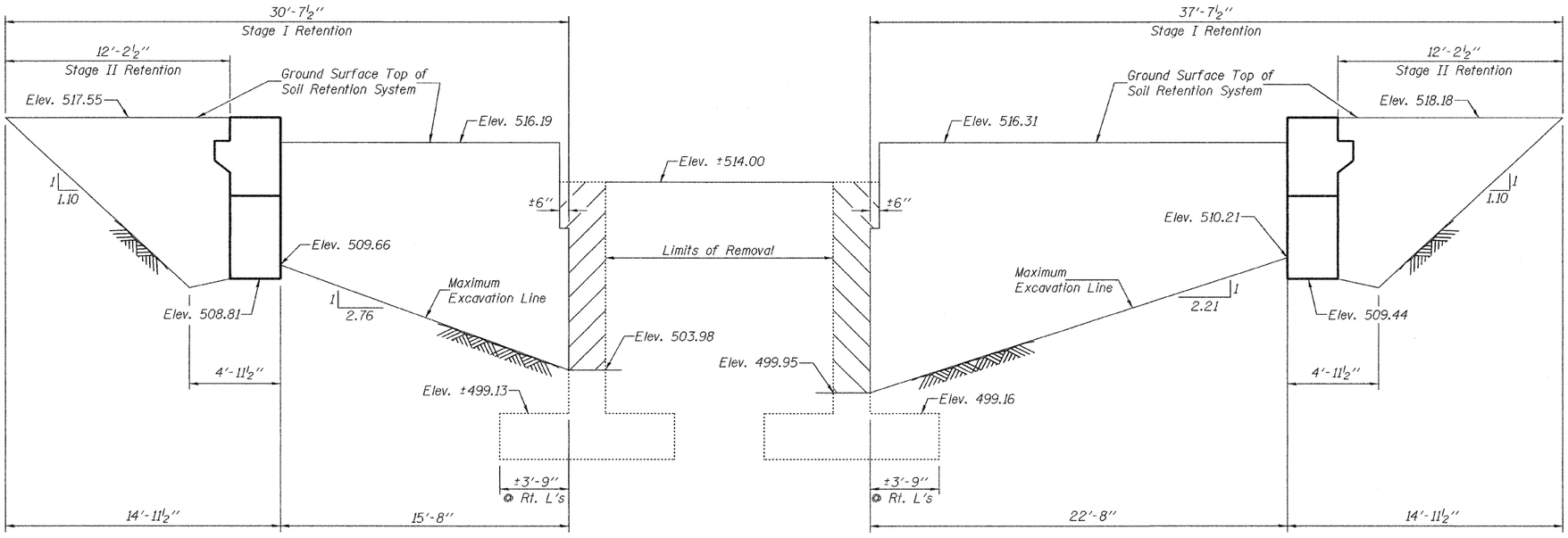
STAGE CONSTRUCTION DETAILS
F.A.P. ROUTE 761 - SECTION 104-BR-2
GREENE COUNTY
STATION 1123+58.50
STRUCTURE NO. 031-0042

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 761	104-BR-2	GREENE	82	52
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 3
20 SHEETS

Contract #76987



WEST ABUTMENT
TEMPORARY SOIL RETENTION SYSTEM

EAST ABUTMENT
TEMPORARY SOIL RETENTION SYSTEM

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.

DESIGNED	Stephen M. Ryan
CHECKED	Michael D. Rolape
DRAWN	BECKY M. LEACH
CHECKED	SMR/MDR

January 22, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

TEMPORARY SOIL RETENTION SYSTEM
F.A.P. ROUTE 761 - SECTION 104-BR-2
GREENE COUNTY
STATION 1123+58.50
STRUCTURE NO. 031-0042

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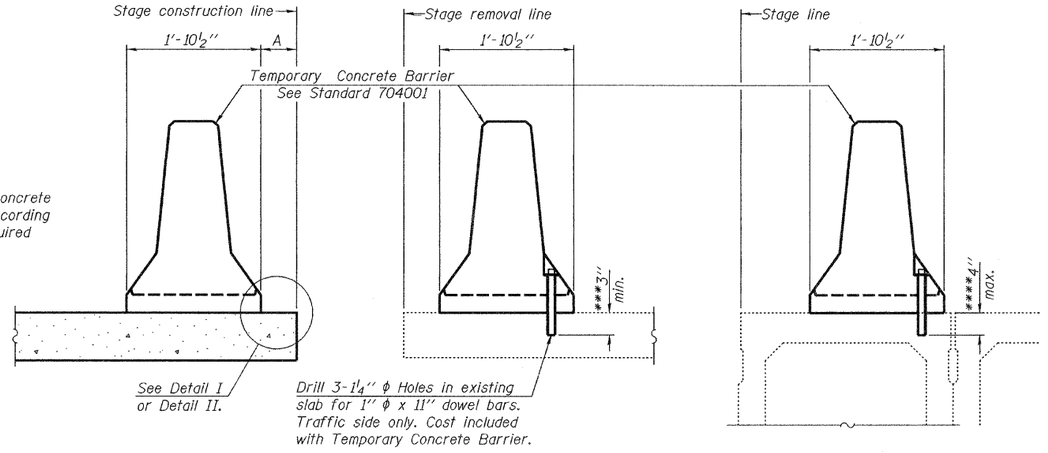
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 761	104-BR-2	GREENE	82	53
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 4
20 SHEETS

Contract #76987

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



NEW SLAB | EXISTING SLAB | EXISTING DECK BEAM

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel ℙ to the top layer of couplers with 2-⅝" ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel ℙ to the concrete slab or concrete wearing surface with 2-⅝"ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

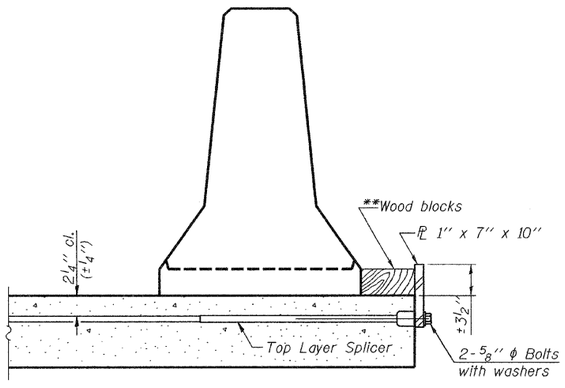
Cost of anchorage is included with Temporary Concrete Barrier.

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.

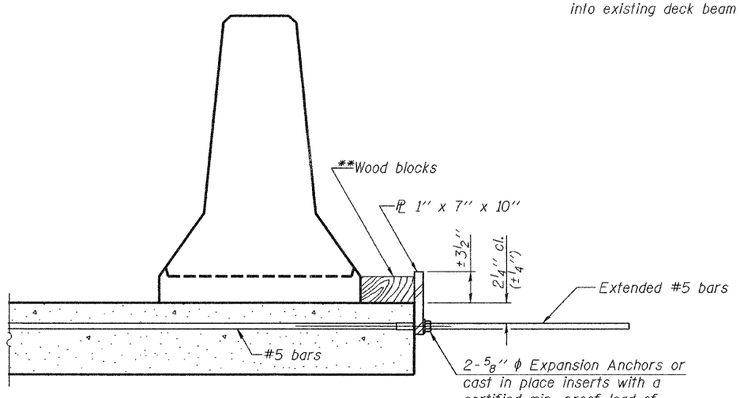
SECTIONS THRU SLAB OR DECK BEAM

***Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

****If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.

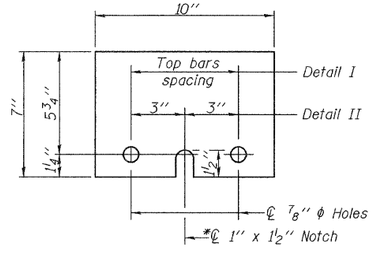


DETAIL I



DETAIL II

**Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.



STEEL RETAINER ℙ 1" x 7" x 10"

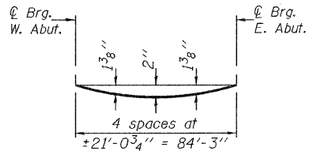
*Required only with Detail II

DESIGNED	Stephen M. Ryan
CHECKED	Michael D. Rolape
DRAWN	BECKY M. LEACH
CHECKED	SMR/MDR

January 22, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

R-27 5-16-08

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
F.A.P. ROUTE 761 - SECTION 104-BR-2
GREENE COUNTY
STATION 1123+58.50
STRUCTURE NO. 031-0042



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

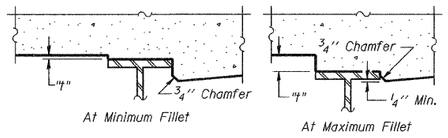
Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below and on sheet 6 of 20.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 761	104-BR-2	GREENE	82	54
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 5
20 SHEETS

Contract #76987



To determine "t": After all structural steel has 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 Deflection" shown below and on sheets 6 of 20, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

BEAM 1

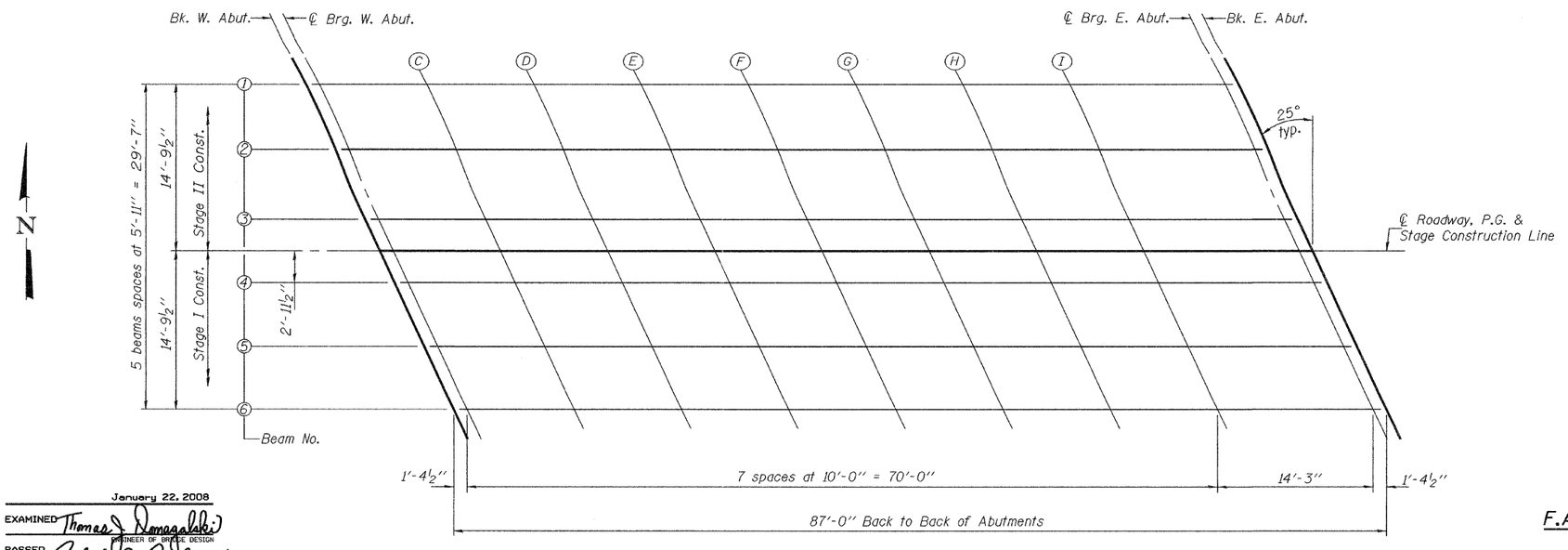
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	112308.10	-14.79	517.24	517.24
℄ Brg. W. Abut.	112309.48	-14.79	517.25	517.25
C	112319.48	-14.79	517.34	517.40
D	112329.48	-14.79	517.42	517.54
E	112339.48	-14.79	517.50	517.64
F	112349.48	-14.79	517.58	517.74
G	112359.48	-14.79	517.65	517.80
H	112369.48	-14.79	517.72	517.85
I	112379.48	-14.79	517.79	517.87
℄ Brg. E. Abut.	112393.72	-14.79	517.88	517.88
Bk. E. Abut.	112395.10	-14.79	517.89	517.89

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	112310.86	-8.88	517.37	517.37
℄ Brg. W. Abut.	112312.24	-8.88	517.38	517.38
C	112322.24	-8.88	517.47	517.53
D	112332.24	-8.88	517.55	517.67
E	112342.24	-8.88	517.63	517.77
F	112352.24	-8.88	517.71	517.87
G	112362.24	-8.88	517.78	517.93
H	112372.24	-8.88	517.85	517.98
I	112382.24	-8.88	517.92	518.00
℄ Brg. E. Abut.	112396.48	-8.88	518.01	518.01
Bk. E. Abut.	112397.86	-8.88	518.01	518.01

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	112313.62	-2.96	517.49	517.49
℄ Brg. W. Abut.	112315.00	-2.96	517.50	517.50
C	112325.00	-2.96	517.58	517.64
D	112335.00	-2.96	517.67	517.78
E	112345.00	-2.96	517.74	517.88
F	112355.00	-2.96	517.82	517.98
G	112365.00	-2.96	517.89	518.04
H	112375.00	-2.96	517.96	518.09
I	112385.00	-2.96	518.03	518.11
℄ Brg. E. Abut.	112399.24	-2.96	518.11	518.11
Bk. E. Abut.	112400.62	-2.96	518.12	518.12



PLAN

DESIGNED	Stephen M. Ryan
CHECKED	Michael D. Rolape
DRAWN	BECKY M. LEACH
CHECKED	SMR/MDR

January 22, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

TOP OF SLAB ELEVATIONS
F.A.P. ROUTE 761 - SECTION 104-BR-2
GREENE COUNTY
STATION 1123+58.50
STRUCTURE NO. 031-0042

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 761	104-BR-2	GREENE	82	55
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 6
20 SHEETS

Contract #76987

℄ ROADWAY, P.G., & STAGE CONST. JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	112315.00	0.00	517.55	517.55
℄ Brg. W. Abut.	112316.38	0.00	517.56	517.56
C	112326.38	0.00	517.64	517.70
D	112336.38	0.00	517.72	517.84
E	112346.38	0.00	517.80	517.94
F	112356.38	0.00	517.88	518.04
G	112366.38	0.00	517.95	518.10
H	112376.38	0.00	518.02	518.14
I	112386.38	0.00	518.08	518.16
℄ Brg. E. Abut.	112400.62	0.00	518.17	518.17
Bk. E. Abut.	112402.00	0.00	518.18	518.18

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	112316.38	2.96	517.51	517.51
℄ Brg. W. Abut.	112317.76	2.96	517.52	517.52
C	112327.76	2.96	517.61	517.66
D	112337.76	2.96	517.69	517.80
E	112347.76	2.96	517.77	517.91
F	112357.76	2.96	517.84	518.00
G	112367.76	2.96	517.91	518.06
H	112377.76	2.96	517.98	518.11
I	112387.76	2.96	518.04	518.12
℄ Brg. E. Abut.	112402.00	2.96	518.13	518.13
Bk. E. Abut.	112403.38	2.96	518.14	518.14

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	112319.14	8.88	517.44	517.44
℄ Brg. W. Abut.	112320.52	8.88	517.45	517.45
C	112330.52	8.88	517.54	517.59
D	112340.52	8.88	517.62	517.73
E	112350.52	8.88	517.69	517.83
F	112360.52	8.88	517.77	517.93
G	112370.52	8.88	517.84	517.99
H	112380.52	8.88	517.91	518.03
I	112390.52	8.88	517.97	518.05
℄ Brg. E. Abut.	112404.76	8.88	518.05	518.05
Bk. E. Abut.	112406.14	8.88	518.06	518.06

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	112321.90	14.79	517.36	517.36
℄ Brg. W. Abut.	112323.28	14.79	517.37	517.37
C	112333.28	14.79	517.45	517.51
D	112343.28	14.79	517.53	517.65
E	112353.28	14.79	517.61	517.75
F	112363.28	14.79	517.68	517.84
G	112373.28	14.79	517.75	517.90
H	112383.28	14.79	517.82	517.94
I	112393.28	14.79	517.88	517.96
℄ Brg. E. Abut.	112407.52	14.79	517.96	517.96
Bk. E. Abut.	112408.90	14.79	517.97	517.97

DESIGNED	Stephen M. Ryan
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DRAWN	BECKY M. LEACH
CHECKED	SMR/MDR

January 22, 2008
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ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

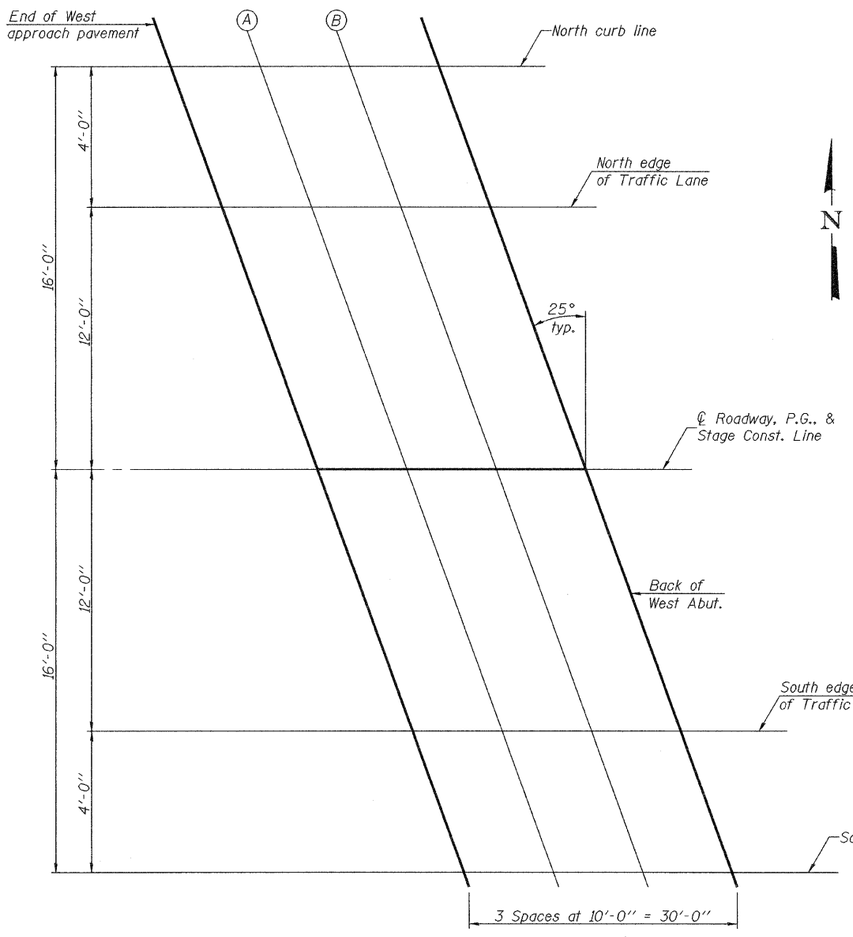
TOP OF SLAB ELEVATIONS
F.A.P. ROUTE 761 - SECTION 104-BR-2
GREENE COUNTY
STATION 1123+58.50
STRUCTURE NO. 031-0042

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 761	104-BR-2	GREENE	82	56
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 7
20 SHEETS

Contract #76987



PLAN

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pvmt.	112277.54	-16.00	516.93
A	112287.54	-16.00	517.02
B	112297.54	-16.00	517.12
Back W. Abut.	112307.54	-16.00	517.21

NORTH EDGE OF TRAFFIC LANE

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pvmt.	112279.40	-12.00	517.03
A	112289.40	-12.00	517.13
B	112299.40	-12.00	517.22
Back W. Abut.	112309.40	-12.00	517.31

℄ ROADWAY, P.G., & STAGE CONST. LINE

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pvmt.	112285.00	0.00	517.27
A	112295.00	0.00	517.37
B	112305.00	0.00	517.46
Back W. Abut.	112315.00	0.00	517.55

SOUTH EDGE OF TRAFFIC LANE

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pvmt.	112290.60	12.00	517.14
A	112300.60	12.00	517.23
B	112310.60	12.00	517.32
Back W. Abut.	112320.60	12.00	517.41

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pvmt.	112292.46	16.00	517.07
A	112302.46	16.00	517.16
B	112312.46	16.00	517.25
Back W. Abut.	112322.46	16.00	517.34

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January 22, 2008
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ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

E-AS 5-16-08

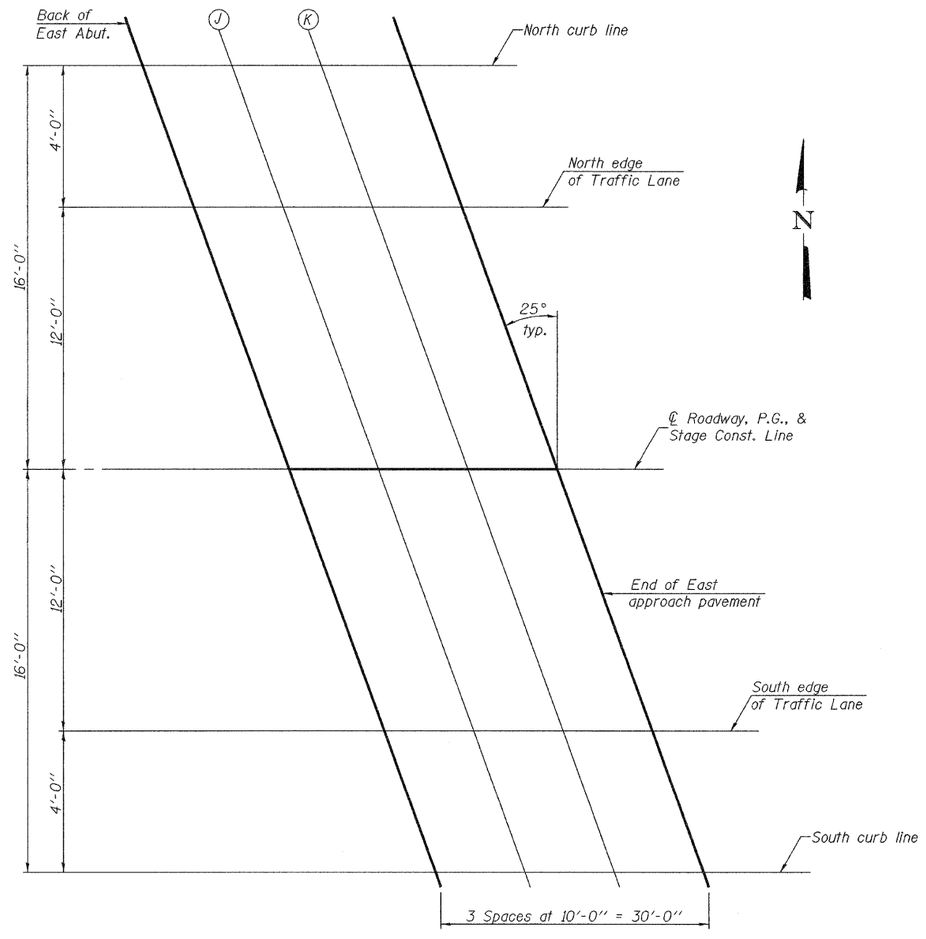
TOP OF WEST APPROACH
SLAB ELEVATIONS
F.A.P. ROUTE 761 - SECTION 104-BR-2
GREENE COUNTY
STATION 1123+58.50
STRUCTURE NO. 031-0042

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 761	104-BR-2	GREENE	82	57
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 8
20 SHEETS

Contract #76987



PLAN

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Back E. Abut.	112394.54	-16.00	517.86
J	112404.54	-16.00	517.92
K	112414.54	-16.00	517.98
End E. Appr. Pvmt.	112424.54	-16.00	518.03

NORTH EDGE OF TRAFFIC LANE

Location	Station	Offset	Theoretical Grade Elevations
Back E. Abut.	112396.40	-12.00	517.96
J	112406.40	-12.00	518.01
K	112416.40	-12.00	518.07
End E. Appr. Pvmt.	112426.40	-12.00	518.12

℄ ROADWAY, P.G., & STAGE CONST. LINE

Location	Station	Offset	Theoretical Grade Elevations
Back E. Abut.	112402.00	0.00	518.18
J	112412.00	0.00	518.23
K	112422.00	0.00	518.29
End E. Appr. Pvmt.	112432.00	0.00	518.34

SOUTH EDGE OF TRAFFIC LANE

Location	Station	Offset	Theoretical Grade Elevations
Back E. Abut.	112407.60	12.00	518.02
J	112417.60	12.00	518.08
K	112427.60	12.00	518.13
End E. Appr. Pvmt.	112437.60	12.00	518.18

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Back E. Abut.	112409.46	16.00	517.95
J	112419.46	16.00	518.00
K	112429.46	16.00	518.05
End E. Appr. Pvmt.	112439.46	16.00	518.10

DESIGNED	Stephen M. Ryan
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DRAWN	BECKY M. LEACH
CHECKED	SMR/MDR

January 22, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

TOP OF EAST APPROACH
SLAB ELEVATIONS
F.A.P. ROUTE 761 - SECTION 104-BR-2
GREENE COUNTY
STATION 1123+58.50
STRUCTURE NO. 031-0042

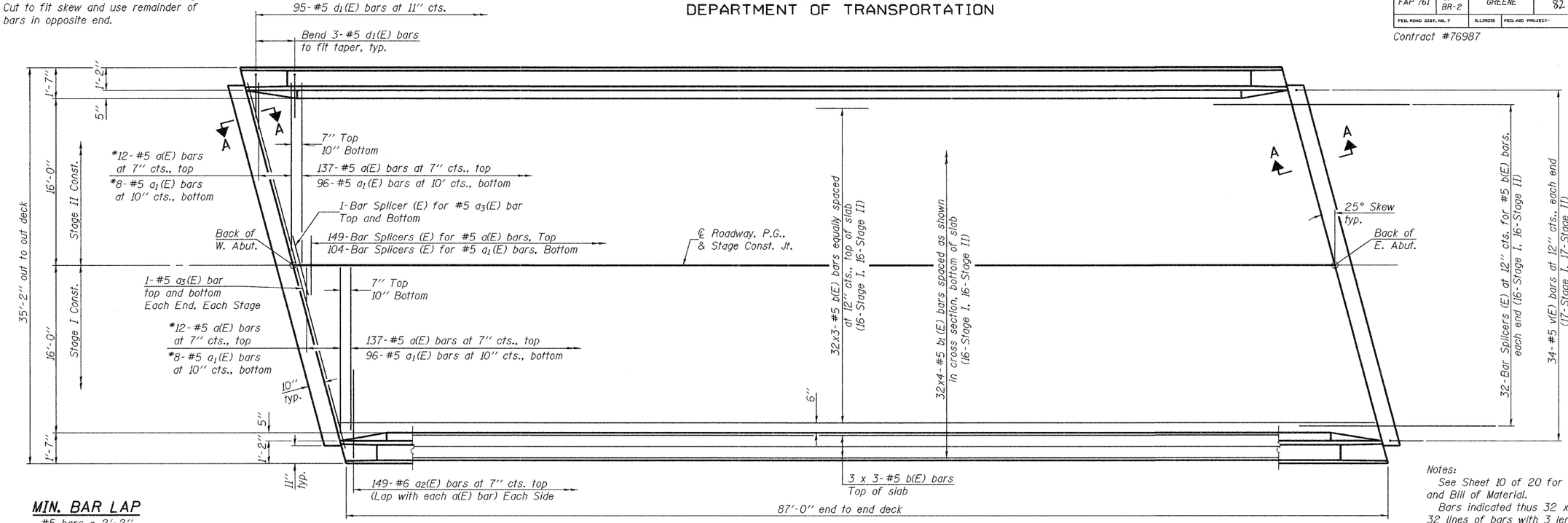
*Order a(E) and a_1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 761	104-BR-2	GREENE	82	58
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 9
20 SHEETS

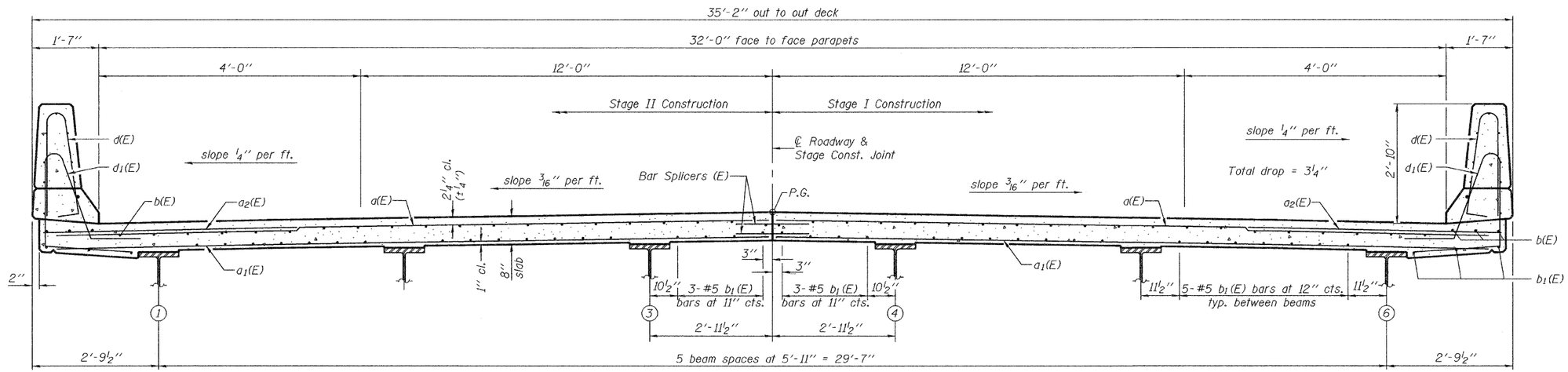
Contract #76987



MIN. BAR LAP
#5 bars = 2'-2"

PLAN

Notes:
See Sheet 10 of 20 for superstructure details and Bill of Material.
Bars indicated thus 32 x 3-#5 etc. indicates 32 lines of bars with 3 lengths per line.
See Sheet 10 of 20 for parapet reinforcement.
See Sheet 10 of 20 for Section A-A.



CROSS SECTION
(Looking East)

DESIGNED	Stephen M. Ryan
CHECKED	Michael D. Rolape
DRAWN	BECKY M. LEACH
CHECKED	SMR/MDR

January 22, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

SI-1-R 5-16-08

SUPERSTRUCTURE
F.A.P. ROUTE 761 - SECTION 104-BR-2
GREENE COUNTY
STATION 1123+58.50
STRUCTURE NO. 031-0042

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

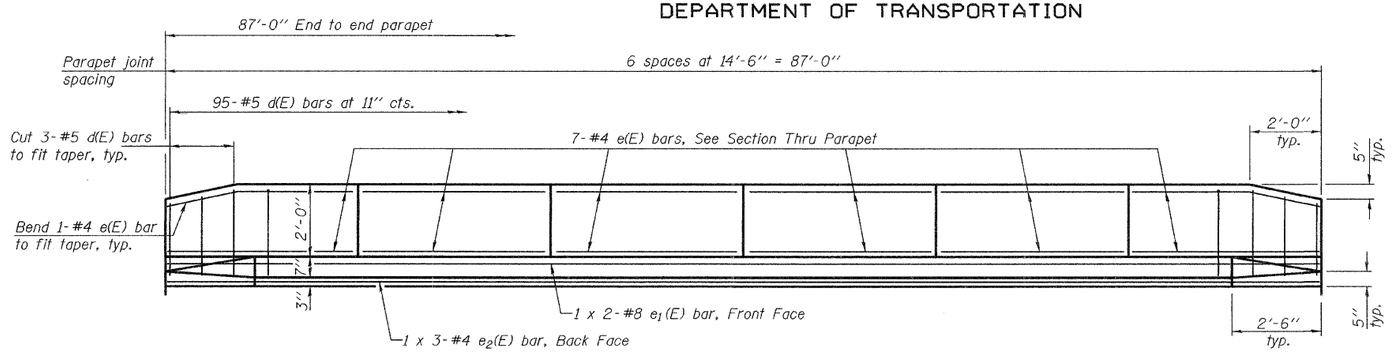
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 761	104-BR-2	GREENE	82	59
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 10
20 SHEETS

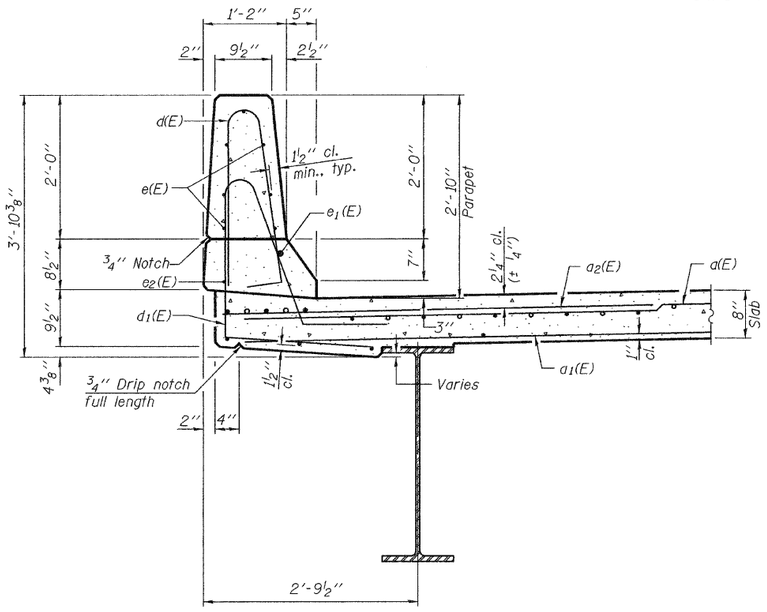
Contract #76987

MINIMUM BAR LAP
(Parapet)

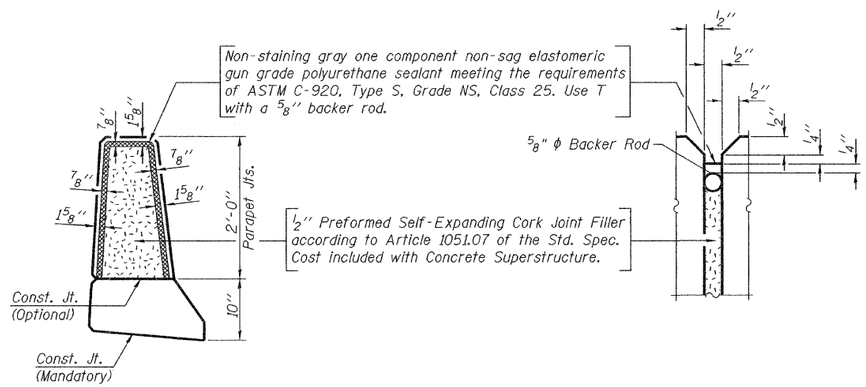
#4 bars = 1'-4"
#8 bars = 3'-5"



INSIDE ELEVATION OF PARAPET



SECTION THRU PARAPET

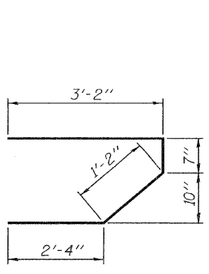


PARAPET JOINT DETAILS

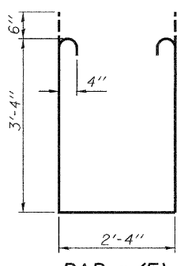
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	298	#5	17'-1"	——
a1(E)	208	#5	16'-3"	——
a2(E)	298	#6	6'-0"	——
a3(E)	8	#5	17'-11"	——
b(E)	114	#5	30'-5"	——
b1(E)	128	#5	23'-4"	——
d(E)	190	#5	5'-7"	⌐
d1(E)	190	#5	7'-5"	L
e(E)	84	#4	14'-2"	——
e1(E)	4	#8	45'-3"	——
e2(E)	6	#4	29'-10"	——
m(E)	8	#6	18'-0"	——
m1(E)	12	#6	19'-0"	——
m2(E)	24	#6	8'-0"	——
m3(E)	8	#6	6'-2"	——
m4(E)	8	#6	2'-10"	——
s(E)	84	#5	7'-3"	⊐
s1(E)	72	#4	10'-0"	⊔
v(E)	68	#5	3'-4"	⌐
Reinforcement Bars, Epoxy Coated			Pound	24,680
Concrete Superstructure			Cu. Yds.	125.7

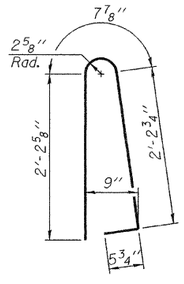
Bars indicated thus 1 x2-#8 etc. indicates 1 line of bars with 2 lengths per line.



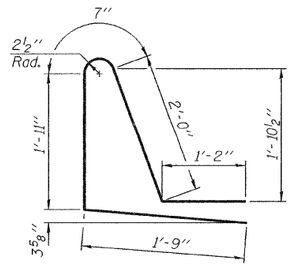
BAR s(E)



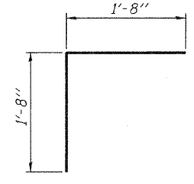
BAR s1(E)



BAR d(E)



BAR d1(E)



BAR v(E)

DESIGNED	Stephen M. Ryan
CHECKED	Michael D. Rolape
DRAWN	BECKY M. LEACH
CHECKED	SMR/MDR

January 22, 2008
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ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

S-I-D 5-16-08

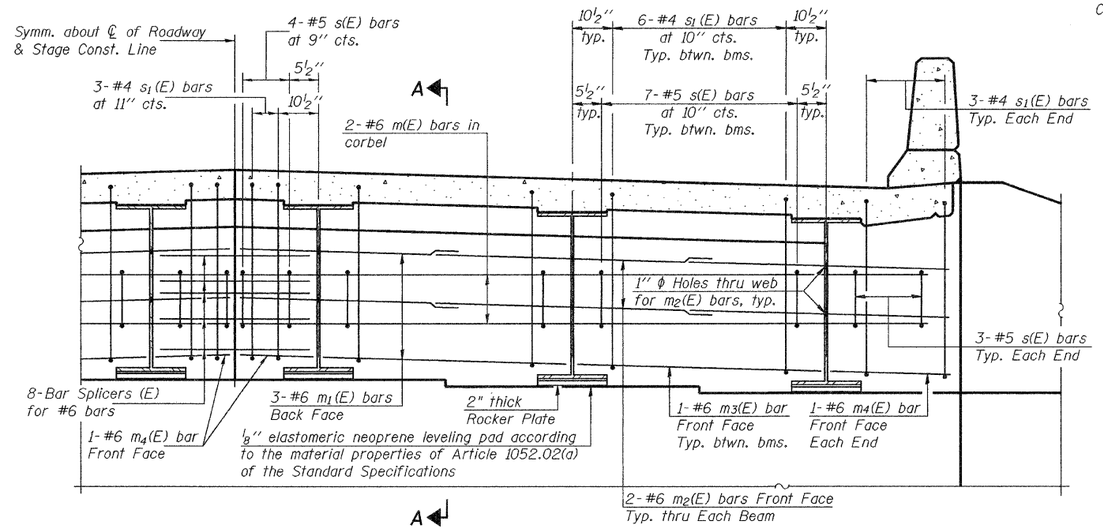
SUPERSTRUCTURE DETAILS
F.A.P. ROUTE 761 - SECTION 104-BR-2
GREENE COUNTY
STATION 1123+58.50
STRUCTURE NO. 031-0042

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 761	104-BR-2	GREENE	82	60
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 11
20 SHEETS

Contract #76987

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

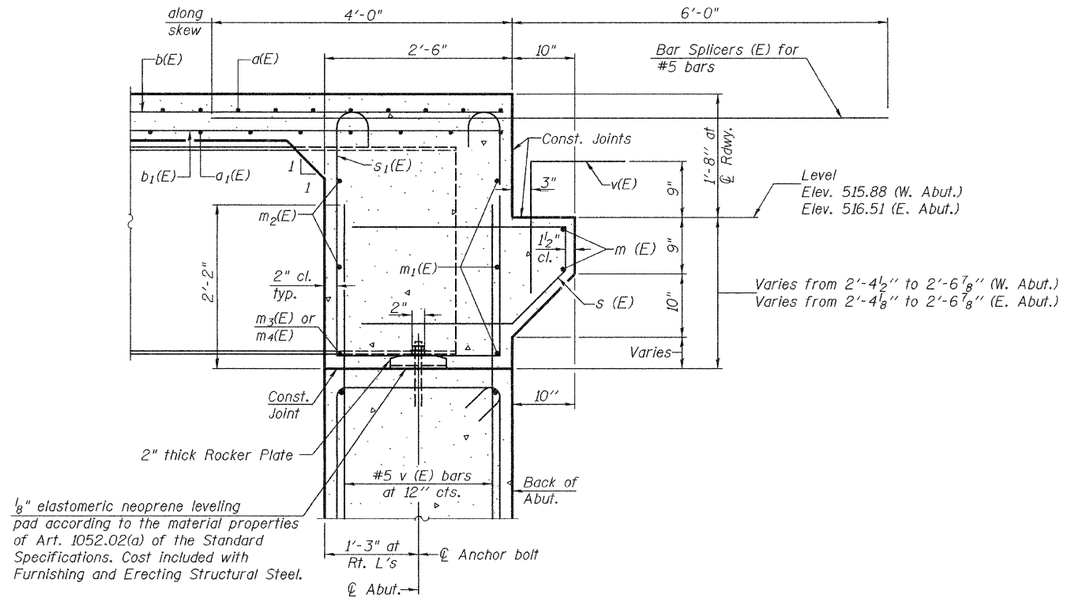


DIAPHRAGM ELEVATION AT ABUTMENT

Notes:
Reinforcement bars in diaphragm are billed with superstructure on sheet 10 of 20.
Concrete in diaphragm is included with Concrete Superstructure on sheet 10 of 20.
For details of bars s(E) & s_1(E) see sheet 10 of 20.
The s(E) and s_1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
See sheet 12 of 20 for holes thru web for m_2(E) bars.
For Bar Splicers (E) details, see sheet 16 of 20.

MIN. BAR LAP

#6 bar = 2'-7"



SECTION A-A

Dimensions at right angles to abutment, except as shown.

DIAPHRAGM DETAILS
F.A.P. ROUTE 761 - SECTION 104-BR-2
GREENE COUNTY
STATION 1123+58.50
STRUCTURE NO. 031-0042

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DRAWN	BECKY M. LEACH
CHECKED	SMR/MDR

January 22, 2008
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ENGINEER OF BRIDGES AND STRUCTURES

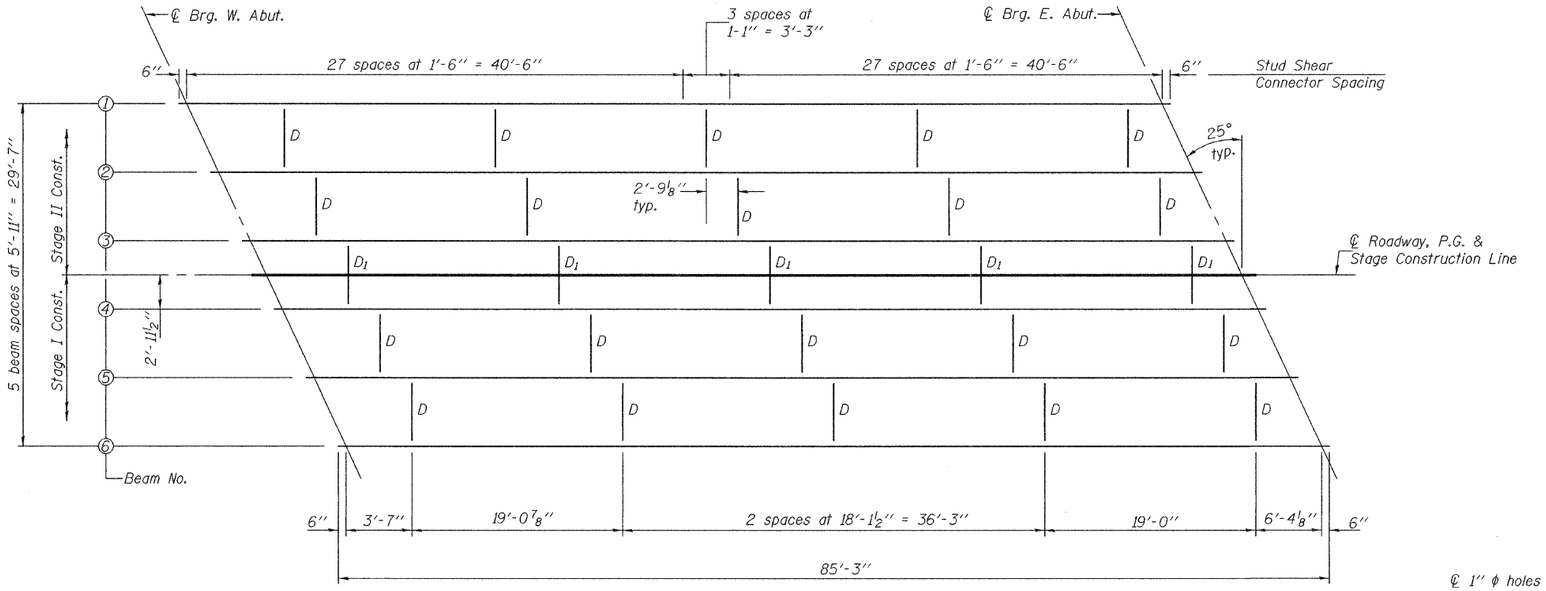
SI-DSI 5-16-08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 761	104-BR-2	GREENE	82	61
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

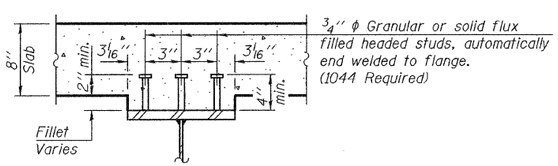
SHEET NO. 12
20 SHEETS

Contract #76987



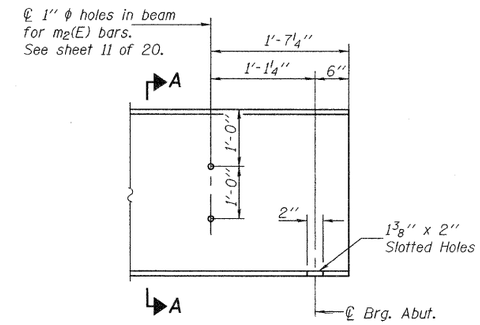
FRAMING PLAN

(All Beams are W36x210, NTR, and AASHTO M270 Grade 50W.)



3/4" ϕ Granular or solid flux filled headed studs, automatically end welded to flange. (1044 Required)

SECTION A-A



END OF BEAM ELEVATION

DESIGNED	Stephen M. Ryan
CHECKED	Michael D. Rolape
DRAWN	BECKY M. LEACH
CHECKED	SMR/MDR

January 22, 2008

EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN

PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

Note:
All diaphragms shall be installed as steel is erected and secured with erection pins and bolts.

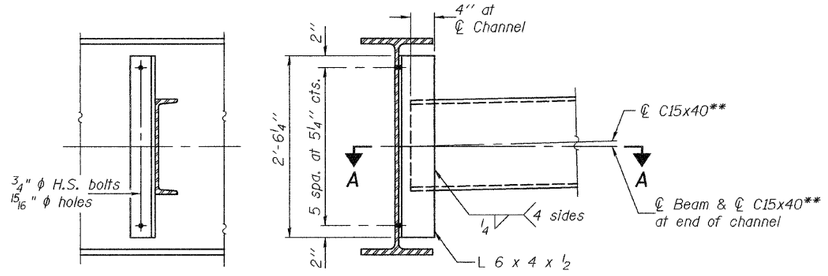
STRUCTURAL STEEL
F.A.P. ROUTE 761 - SECTION 104-BR-2
GREENE COUNTY
STATION 1123+58.50
STRUCTURE NO. 031-0042

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 761	104-BR-2	GREENE	82	62
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

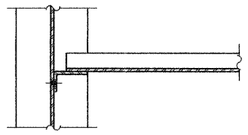
SHEET NO. 13
20 SHEETS

Contract #76987



DIAPHRAGM D
(20 Required)

** Alternate channel C15x50 is permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.



SECTION A-A

INTERIOR BEAM MOMENT TABLE		0.5 Span
I_s	(in^4)	13200
$I_c(n)$	(in^4)	30928
$I_c(3n)$	(in^4)	22054
S_s	(in^3)	719
$S_c(n)$	(in^3)	1022
$S_c(3n)$	(in^3)	906
DC1	(k/')	0.852
M_{DC1}	('k)	756
DC2	(k/')	0.150
M_{DC2}	('k)	133
DW	(k/')	0.296
M_{DW}	('k)	263
M_{L+Im}	('k)	1164
M_u(Strength I)	('k)	3543
$\phi_f M_n$	('k)	4943
f_s DC1	(ksi)	12.6
f_s DC2	(ksi)	1.8
f_s DW	(ksi)	3.5
f_s 1.3(L+Im)	(ksi)	17.8
f_s (Service II)	(ksi)	35.7
V_f	(k)	26.4

INTERIOR BEAM REACTION TABLE HL93 Loading		Abutments
R_{DC1}	(k)	35.9
R_{DC2}	(k)	6.3
R_{DW}	(k)	12.5
R_{L+Imp}	(k)	81.4
R_{Total}	(k)	136.1

I_s, S_s: Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads ($in.^4$ and $in.^3$).

$I_c(n)$, $S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) due to short-term composite live loads ($in.^4$ and $in.^3$).

$I_c(3n)$, $S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) due to long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

DC1: Un-factored non-composite dead load (kips/ft.).

M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M_{L+Imp}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

M_u (Strength I): Factored design moment (kip-ft.).
$1.25\ (M_{DC1} + M_{DC2}) + 1.5\ M_{DW} + 1.75\ M_{L+Imp}$

$\phi_f M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).

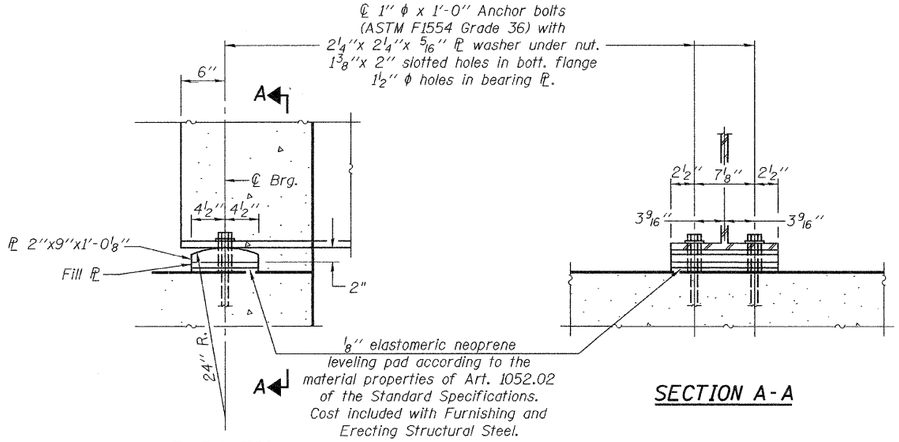
f_s (Service II): Sum of stresses as computed from the moments below (ksi).
$M_{DC1} + M_{DC2} + M_{DW} + 1.3\ M_{L+Imp}$

V_f: Factored shear range computed according to Article 6.10.10.

*TOP OF BEAM ELEVATIONS

Location	℄ Brg. W. Abut.	℄ Brg. E. Abut.
Beam 1	516.54	517.17
Beam 2	516.67	517.30
Beam 3	516.79	517.40
Beam 4	516.81	517.42
Beam 5	516.74	517.34
Beam 6	516.66	517.25

*For fabrication use only.



ELEVATION

SECTION A-A

FIXED BEARINGS AT ABUTMENTS

(12 Required)

Notes:

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

All diaphragms shall be installed as steel is erected and secured with erection pins and bolts.

Two hardened washers are required for each set of oversized holes.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

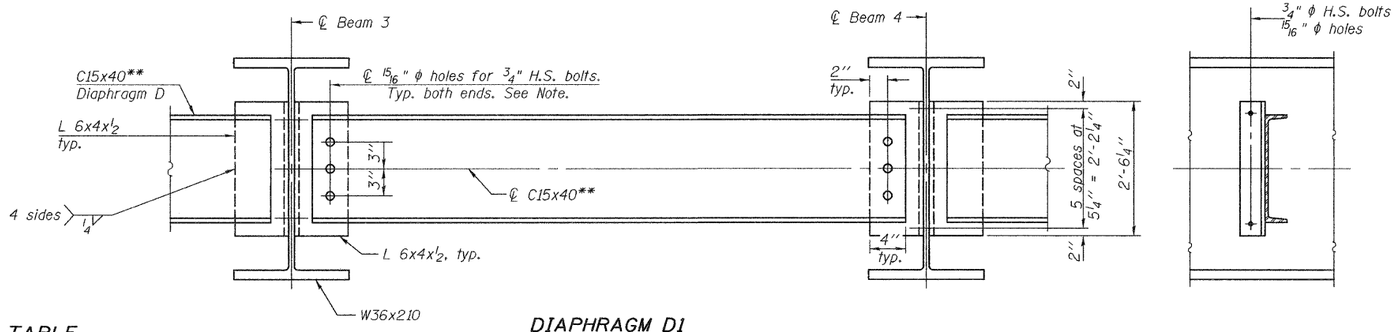
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

DESIGNED	Stephen M. Ryan
CHECKED	Michael D. Rolape
DRAWN	BECKY M. LEACH
CHECKED	SMR/MDR

January 22, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

FILL PLATE TABLE

Beam	3	4
W. Abut.	⅝"	⅞"
E. Abut.	-	¼"



DIAPHRAGM D1

(Looking East) (5 Required)

Install only the center bolt at each end of Diaphragm D1. The bolts shall be finger tightened prior to deck pour to permit rotation of Diaphragm D1. Install the remaining bolts and fully tighten after stage two deck pour is complete.

STRUCTURAL STEEL DETAILS
F.A.P. ROUTE 761 - SECTION 104-BR-2
GREENE COUNTY
STATION 1123+58.50
STRUCTURE NO. 031-0042

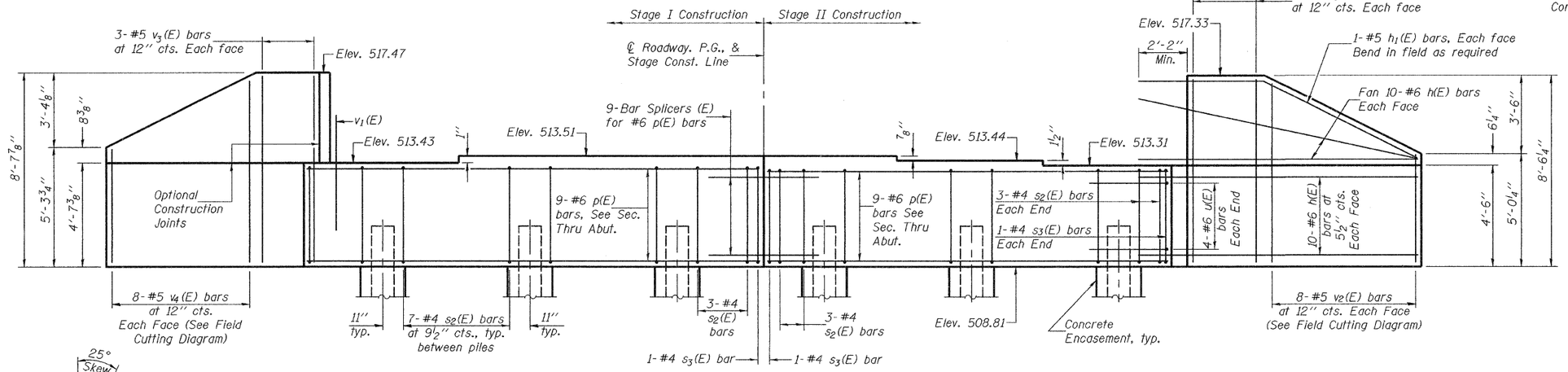
Notes: Pour steps monolithically with cap.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

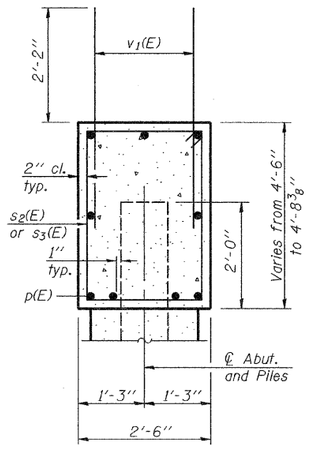
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 761	104-BR-2	GREENE	82	63
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 14
20 SHEETS

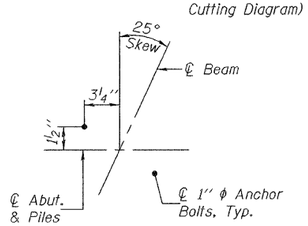
Contract #76987



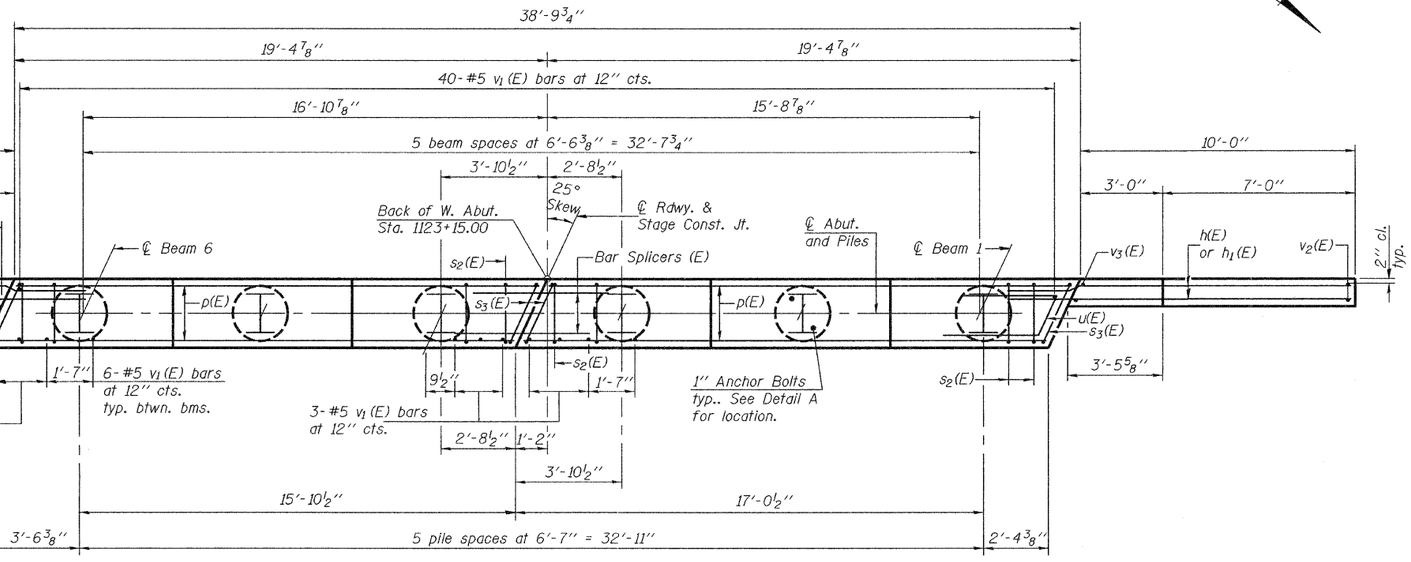
ELEVATION
(Looking West)



SEC. THRU ABUT.



DETAIL A



PLAN

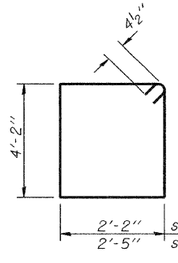
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	80	#6	12'-3"	——
h1(E)	4	#5	13'-0"	——
p(E)	18	#6	19'-0"	——
s2(E)	40	#4	13'-5"	⌐¬
s3(E)	4	#4	13'-11"	⌐¬
u(E)	8	#6	7'-6"	⌐_
v1(E)	76	#5	4'-4"	——
v2(E)	8	#5	13'-0"	——
v3(E)	12	#5	8'-3"	——
v4(E)	8	#5	13'-3"	——
Structure Excavation			Cu. Yd.	31.1
Concrete Structures			Cu. Yd.	22.0
Reinforcement Bars, Epoxy Coated			Pound	3190
Furnishing Piles, HP12x84			Foot	400
Driving Piles			Foot	400
Test Pile, HP12x84			Each	1
Concrete Encasement			Cu. Yd.	2.1
Anchor Bolts, 1"			Each	12

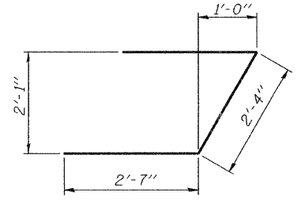
For details of Bar Splicers, see sheet 16 of 20.
For details of piles and Concrete Encasement, see sheet 18 of 20.

PILE DATA

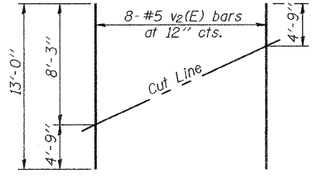
Type: HP12x84
Nominal Required Bearing: 374 kips
Factored Resistance Available: 187 kips
Est. Length: 80 ft.
No. Production Piles: 5
No. Test Piles: 1



BARS s2(E) & s3(E)

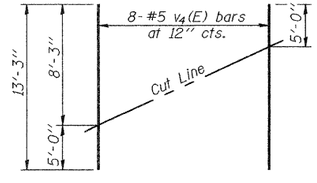


BAR u(E)



FIELD CUTTING DIAGRAM

Order v2(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.

DESIGNED	Stephen M. Ryan
CHECKED	Michael D. Rolape
DRAWN	BECKY M. LEACH
CHECKED	SMR/MDR

January 22, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

WEST ABUTMENT
F.A.P. ROUTE 761 - SECTION 104-BR-2
GREENE COUNTY
STATION 1123+58.50
STRUCTURE NO. 031-0042

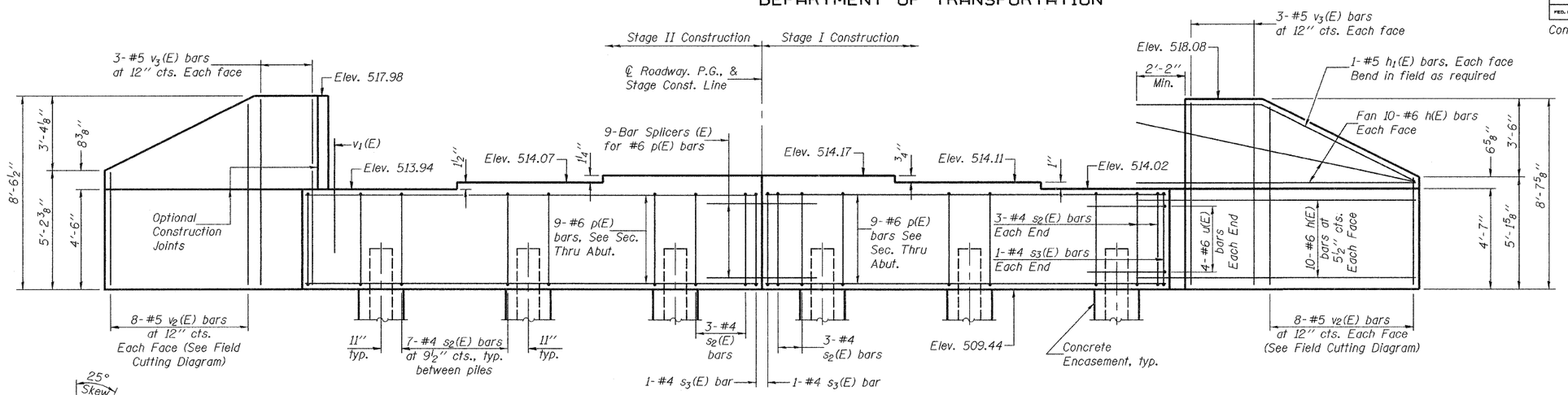
Notes: Pour steps monolithically with cap.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

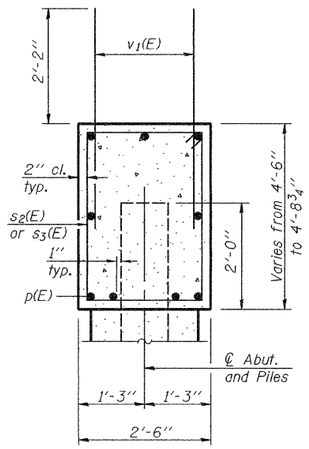
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 761	104-BR-2	GREENE	82	64
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 15
20 SHEETS

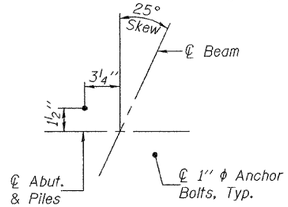
Contract #76987



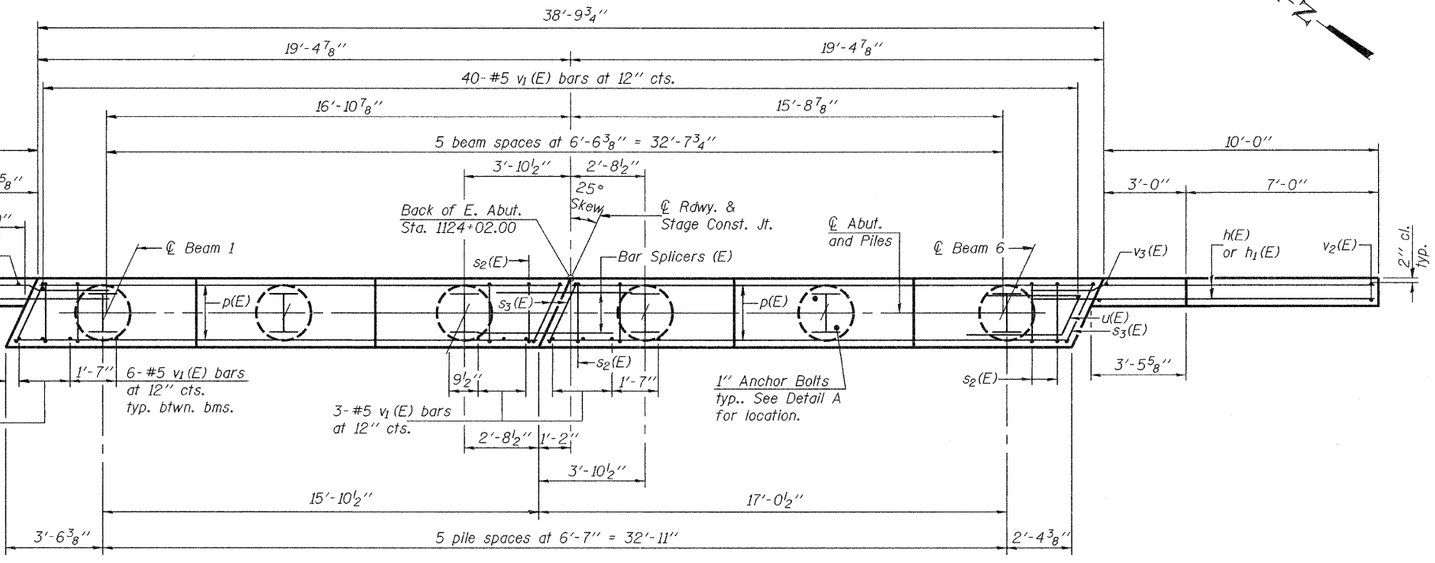
ELEVATION
(Looking East)



SEC. THRU ABUT.



DETAIL A



PLAN

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	80	#6	12'-3"	
h1(E)	4	#5	13'-0"	
p(E)	18	#6	19'-0"	
s2(E)	40	#4	13'-5"	
s3(E)	4	#4	13'-11"	
u(E)	8	#6	7'-6"	
v1(E)	76	#5	4'-4"	
v2(E)	16	#5	13'-0"	
v3(E)	12	#5	8'-3"	
Structure Excavation		Cu. Yd.	41.6	
Concrete Structures		Cu. Yd.	22.0	
Reinforcement Bars, Epoxy Coated		Pound	3190	
Furnishing Piles, HP12x84		Foot	380	
Driving Piles		Foot	380	
Test Pile, HP12x84		Each	1	
Concrete Encasement		Cu. Yd.	2.1	
Anchor Bolts, 1"		Each	12	

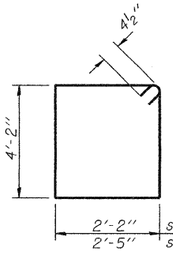
For details of Bar Splicers, see sheet 16 of 20.
For details of piles and Concrete Encasement, see sheet 18 of 20.

PILE DATA

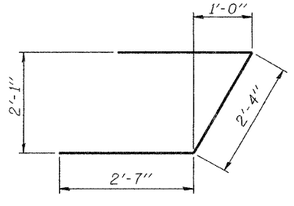
Type: HP12x84
Nominal Required Bearing: 372 kips
Factored Resistance Available: 186 kips
Est. Length: 76 ft.
No. Production Piles: 5
No. Test Piles: 1

DESIGNED	Stephen M. Ryan
CHECKED	Michael D. Rolape
DRAWN	BECKY M. LEACH
CHECKED	SMR/MDR

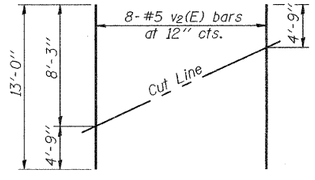
January 22, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



BARS s2(E) & s3(E)



BAR u(E)



FIELD CUTTING DIAGRAM

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

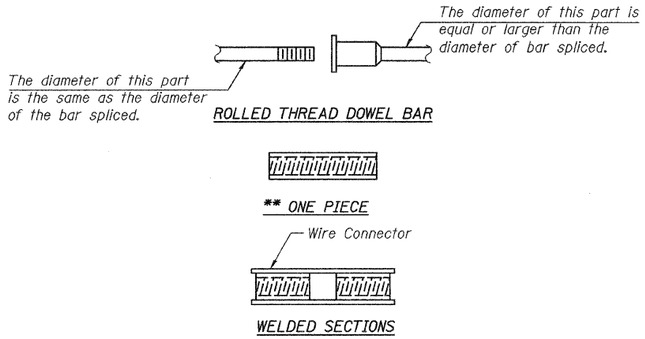
EAST ABUTMENT
F.A.P. ROUTE 761 - SECTION 104-BR-2
GREENE COUNTY
STATION 1123+58.50
STRUCTURE NO. 031-0042

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 761	104-BR-2	GREENE	82	65
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

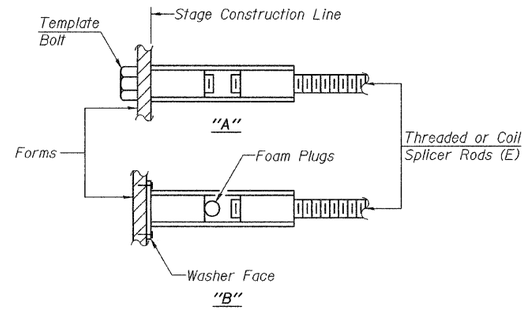
SHEET NO. 16
20 SHEETS

Contract #76987



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.

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.

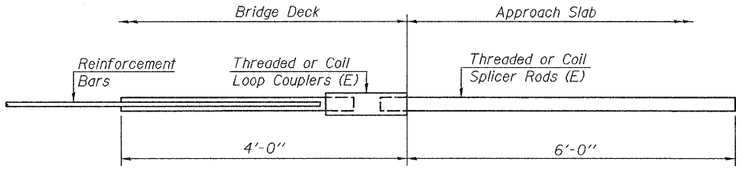
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$

② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$

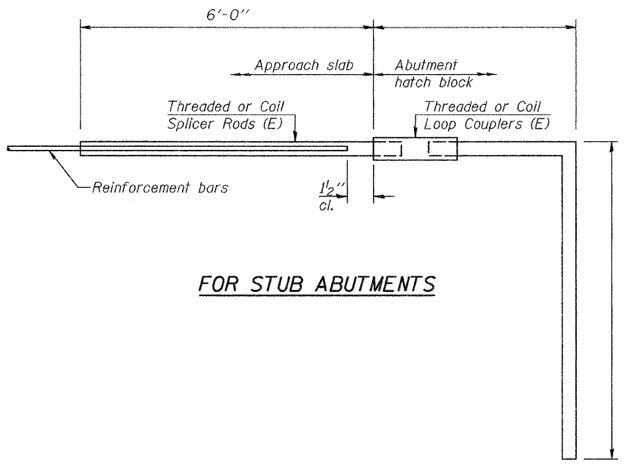
Where f_y = Yield strength of lapped reinforcement bars in ksi.
A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

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	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



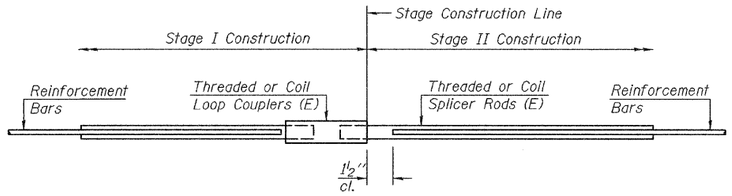
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 64



FOR STUB ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



STANDARD

Bar Size	No. Assemblies Required	Location
#5	257	Deck
#6	16	Diaphragm
#6	18	Abutments

DESIGNED	Stephen M. Ryan
CHECKED	Michael D. Rolape
DRAWN	BECKY M. LEACH
CHECKED	SMR/MDR

January 22, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

BSD-1 5-16-08

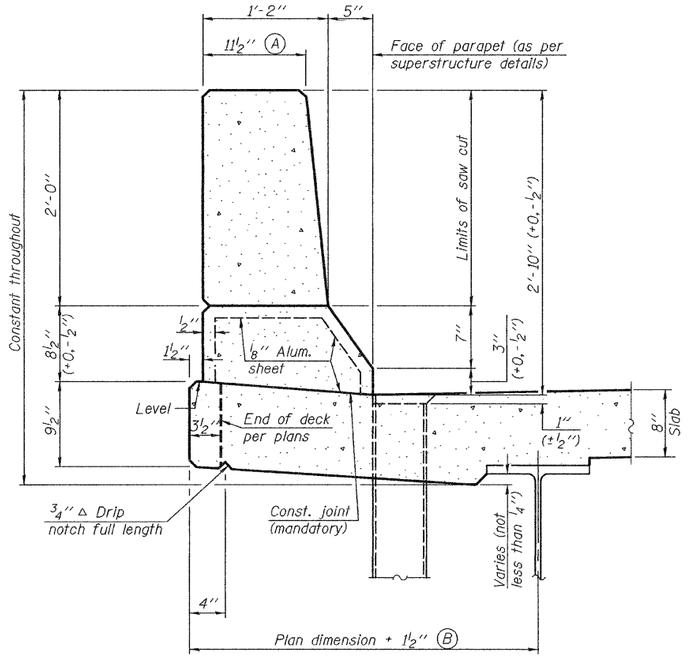
BAR SPLICER ASSEMBLY DETAILS
F.A.P. ROUTE 761 - SECTION 104-BR-2
GREENE COUNTY
STATION 1123+58.50
STRUCTURE NO. 031-0042

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

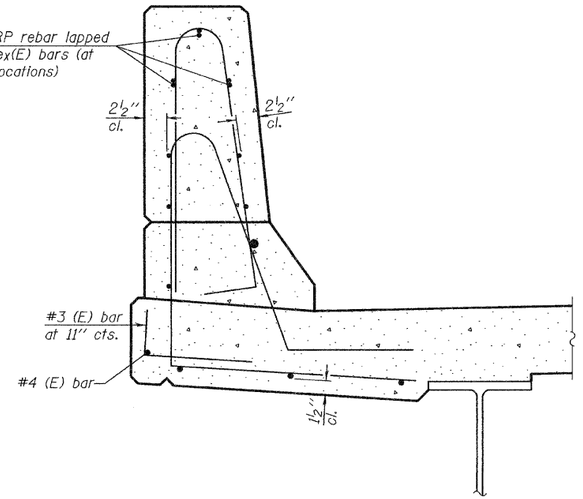
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 761	104-BR-2	GREENE	82	66
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 17
20 SHEETS

Contract #76987



SECTION
(Showing dimensions)

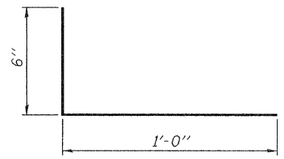


SECTION
(Showing reinforcement clearances for slip forming and additional reinforcement bars)

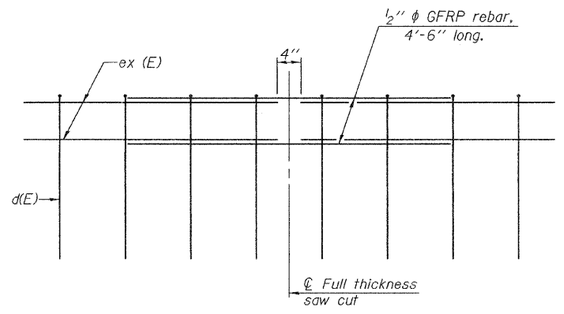
GENERAL NOTES

All dimensions shall remain the same as shown on contract plans, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B= 0.0165 cu. yds./ft. of parapet.

Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler.



#3 (E) BAR



GFRP REBAR STIFFENING DETAIL
(Place as shown in parapet section at each parapet joint location.)

DESIGNED	Stephen M. Ryan
CHECKED	Michael D. Rolape
DRAWN	BECKY M. LEACH
CHECKED	SMR/MDR

January 22, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

SFP-34 5-16-08

CONCRETE PARAPET SLIPFORMING OPTION
F.A.P. ROUTE 761 - SECTION 104-BR-2
GREENE COUNTY
STATION 1123+58.50
STRUCTURE NO. 031-0042

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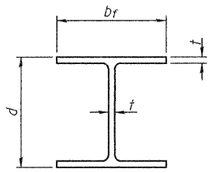
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 761	104-BR-2	GREENE	82	67
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

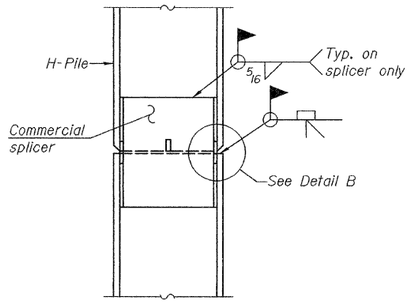
SHEET NO. 18
20 SHEETS

Contract #76987

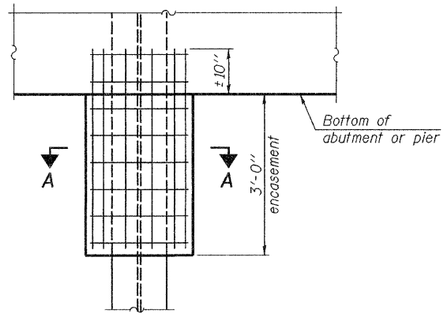


STEEL PILE TABLE

Designation	Depth d	Flange width b_f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	11/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"

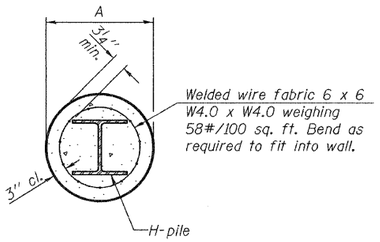


ELEVATION



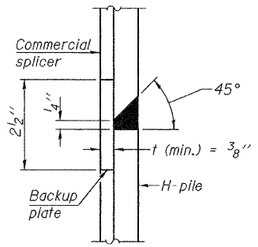
ELEVATION

PILE ENCASEMENT

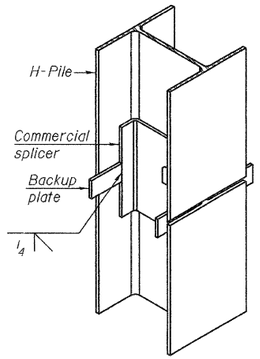


Note: Forms for encasement may be omitted when soil conditions permit.

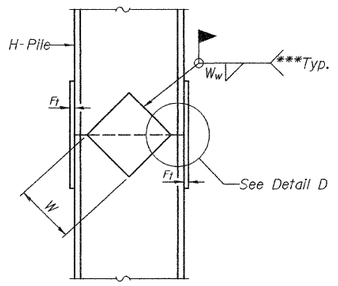
SECTION A-A



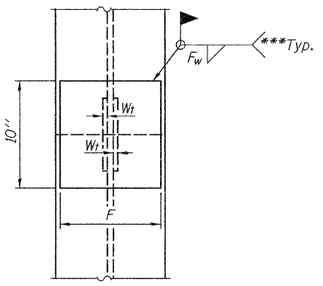
DETAIL "B"



ISOMETRIC VIEW

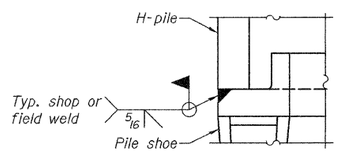


ELEVATION



END VIEW

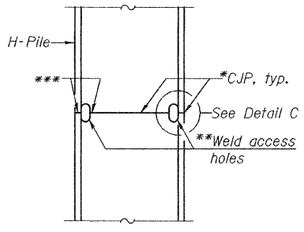
WELDED COMMERCIAL SPLICE



ELEVATION

DETAIL A

H-PILE SHOE ATTACHMENT



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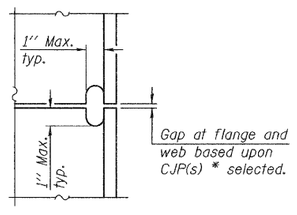
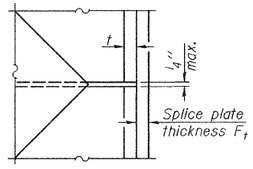


DETAIL C

COMPLETE PENETRATION WELD SPLICE



DETAIL D

Designation	F	F_t	F_w	W	W_t	W_w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

WELDED PLATE FIELD SPLICE

*Use joint conforming to Figure 3.4 in AWS D1.1, Structure Welding Code-Steel.

**Preparation per Fig. 5.2 in AWS D1.1, Structure Welding Code-Steel.

***Interrupt welds 1/4" from end of each pile.

Note: The steel H-piles shall be according to AASHTO M270 Grade 50.

DESIGNED	Stephen M. Ryan
CHECKED	Michael D. Rolape
DRAWN	BECKY M. LEACH
CHECKED	SMR/MDR

F-HP 5-16-08

January 22, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

HP PILE DETAILS
F.A.P. ROUTE 761 - SECTION 104-BR-2
GREENE COUNTY
STATION 1123+58.50
STRUCTURE NO. 031-0042

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 761	104-BR-2	GREENE	82	68
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 19
20 SHEETS

Contract #76987

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways — District 8 – Materials

Page 1 of 2 — Date 3/1/12

ROUTE FAP 761 DESCRIPTION IL 108 over Taylor Creek Branch LOGGED BY J. King

SECTION 104BR-2 LOCATION SW 1/4, SEC. 16, TWP. 10N, RNG. 10W, 3 PM

COUNTY Greene DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 031-0026 (E) / 031-0042 (P)
Station 1123+55

BORING NO. 1 E. Abut
Station 1123+65.5
Offset 6.00ft Left
Ground Surface Elev. 515.1 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 511.1 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Drilled through bridge deck - Hung augers			
-5			
-10			
-15			
-20	2		43
Gray Sandy Silty CLAY (continued) 494.6			
Gray CLAY	7	0.65 B	27
-25	7	0.85 B	26
487.1			
Gray Sandy Silty CLAY	15	1.73 S	19
-30 484.6			
Medium Brown and Gray SAND with Medium Gravel	16	WC	--
482.1			
Gray Clay TILL	56	6.41 S	10
-35			
-40	80	6.50 S	10
-45	70	7.70 S	10

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 (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways — District 8 – Materials

Page 2 of 2 — Date 3/1/12

ROUTE FAP 761 DESCRIPTION IL 108 over Taylor Creek Branch LOGGED BY J. King

SECTION 104BR-2 LOCATION SW 1/4, SEC. 16, TWP. 10N, RNG. 10W, 3 PM

COUNTY Greene DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 031-0026 (E) / 031-0042 (P)
Station 1123+55

BORING NO. 1 E. Abut
Station 1123+65.5
Offset 6.00ft Left
Ground Surface Elev. 515.1 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 511.1 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray Clay TILL (continued)			
	50	8.31 S	10
470.1 -45	65	7.50 S	11
END OF BORING			

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 (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways — District 8 – Materials

Page 1 of 2 — Date 3/3/12

ROUTE FAP 761 DESCRIPTION IL 108 over Taylor Creek Branch LOGGED BY J. King

SECTION 104BR-2 LOCATION SW 1/4, SEC. 16, TWP. 10N, RNG. 10W, 3 PM

COUNTY Greene DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 031-0026 (E) / 031-0042 (P)
Station 1123+55

BORING NO. 2 W. Abut
Station 1123+45
Offset 5.50ft Right
Ground Surface Elev. 515.1 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 501.1 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Drilled through bridge deck - Hung augers			
-5			
Brown and Gray Silty CLAY (continued)	5	0.58 S	27
492.1			
Gray Medium SAND with Gravel	5	MC	--
-25 489.6			
Gray Clay TILL	13	1.63 B	26
-30	15	0.98 B	21
484.6			
Gray Medium SAND and GRAVEL	24	MC	--
481.1			
Gray Clay TILL	70	6.52 B	10
-35			
-40	55	6.19 S	10
-45	56	6.23 S	4
Ground Level 506.1			
Gray Sandy SILT	10	0.92 S	39
-10			
	9	0.73 S	39
-15			
	5	0.55 S	30
491.1			
Brown and Gray Silty CLAY	4	0.52 B	28
-20	3	0.52 B	27

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 (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways — District 8 – Materials

Page 2 of 2 — Date 3/3/12

ROUTE FAP 761 DESCRIPTION IL 108 over Taylor Creek Branch LOGGED BY J. King

SECTION 104BR-2 LOCATION SW 1/4, SEC. 16, TWP. 10N, RNG. 10W, 3 PM

COUNTY Greene DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 031-0026 (E) / 031-0042 (P)
Station 1123+55

BORING NO. 2 W. Abut
Station 1123+45
Offset 5.50ft Right
Ground Surface Elev. 515.1 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 501.1 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray Clay TILL (continued)			
	50	7.62 S	6
470.1 -45	52	7.97 S	10
END OF BORING			

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 (AASHTO T206)

BBS, from 137 (Rev. 8-99)

BORING LOGS
F.A.P. ROUTE 761 - SECTION 104-BR-2
GREENE COUNTY
STATION 1123+58.50
STRUCTURE NO. 031-0042

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 761	104-BR-2	GREENE	82	69
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 20
20 SHEETS

Contract #76987

Illinois Department of Transportation
Division of Highways
District 8 – Materials

SOIL BORING LOG

Page 1 of 3

Date 3/20/08

ROUTE FAP 761 DESCRIPTION IL 108 over Taylor Creek Branch LOGGED BY S. Wiszkon

SECTION 104BR-2 LOCATION SW 1/4, SEC. 16, TWP. 10N, RNG. 10W, 3 PM

COUNTY Greene DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 031-0026 (E) / 031-0042 (P)
Station 1123+55

BORING NO. 3 E. Abut
Station 1124+19
Offset 11.00ft Left
Ground Surface Elev. 515.1 ft

Surface Water Elev. ____ ft
Stream Bed Elev. ____ ft

Groundwater Elev.:
First Encounter ____ ft
Upon Completion ____ ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	Asphalt / Concrete Pavement (as per old plans)		
513.1			
	Brown Silty Clay LOAM		
-5	2		
	2 4	1.14 B/20	27
508.6			
	Brown/Gray Silty CLAY		
	2		
	4 3	1.14 S/20	26
506.1			
	Dark Gray Silt LOAM		
-10	3		
	4 7	0.81 S/20	19
503.6			
	Dark Gray Sandy SILT		
	2		
	2 3	0.33 B/20	23
501.1			
	Dark Gray Sandy Clayey SILT		
-15	3		
	3 5	0.68 S/20	20
498.1			
	SEE 1972 EAST ABUTMENT BORING - NO SAMPLES TAKEN		
-20			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	SEE 1972 EAST ABUTMENT BORING - NO SAMPLES TAKEN (continued)		
-30			
-35			
-40			

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 (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
District 8 – Materials

SOIL BORING LOG

Page 2 of 3

Date 3/20/08

ROUTE FAP 761 DESCRIPTION IL 108 over Taylor Creek Branch LOGGED BY S. Wiszkon

SECTION 104BR-2 LOCATION SW 1/4, SEC. 16, TWP. 10N, RNG. 10W, 3 PM

COUNTY Greene DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 031-0026 (E) / 031-0042 (P)
Station 1123+55

BORING NO. 3 E. Abut
Station 1124+19
Offset 11.00ft Left
Ground Surface Elev. 515.1 ft

Surface Water Elev. ____ ft
Stream Bed Elev. ____ ft

Groundwater Elev.:
First Encounter ____ ft
Upon Completion ____ ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	SEE 1972 EAST ABUTMENT BORING - NO SAMPLES TAKEN (continued)		
470.6			
	Gray Clay TILL		
-45	8		
	13 18	3.42 S/20	11
-50	9		
	14 20	3.91 S/20	11
-55	7		
	13 18	3.59 S/20	12
-60	7		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	Gray Clay TILL (continued)		
	12 18	4.24 S/20	11
-65	6		
	11 16	2.44 S/20	13
-70	8		
	11 15	1.96 S/20	13
-75	4		
	7 12	1.79 S/20	14
-80	5		
	END OF DRILLING - 3/20 RESUME DRILLING - 3/21		
-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 (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
District 8 – Materials

SOIL BORING LOG

Page 3 of 3

Date 3/20/08

ROUTE FAP 761 DESCRIPTION IL 108 over Taylor Creek Branch LOGGED BY S. Wiszkon

SECTION 104BR-2 LOCATION SW 1/4, SEC. 16, TWP. 10N, RNG. 10W, 3 PM

COUNTY Greene DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 031-0026 (E) / 031-0042 (P)
Station 1123+55

BORING NO. 3 E. Abut
Station 1124+19
Offset 11.00ft Left
Ground Surface Elev. 515.1 ft

Surface Water Elev. ____ ft
Stream Bed Elev. ____ ft

Groundwater Elev.:
First Encounter ____ ft
Upon Completion ____ ft
After ____ Hrs. ____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	Gray Clay TILL (continued)		
	8 11	1.50 S/20	14
-85	6		
	9 13	NS	
-90	7		
	10 12	NS	
-95	5		
	8 14	NS	
-100	6		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	Gray Clay TILL (continued)		
414.1			
	END OF BORING - RAN OUT OF AUGERS		
-105			
-110			
-115			
-120			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	Gray Clay TILL (continued)		
	12 17	2.28 S/20	14

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 (AASHTO T206)

BBS, from 137 (Rev. 8-99)

BORING LOGS
F.A.P. ROUTE 761 - SECTION 104-BR-2
GREENE COUNTY
STATION 1123+58.50
STRUCTURE NO. 031-0042

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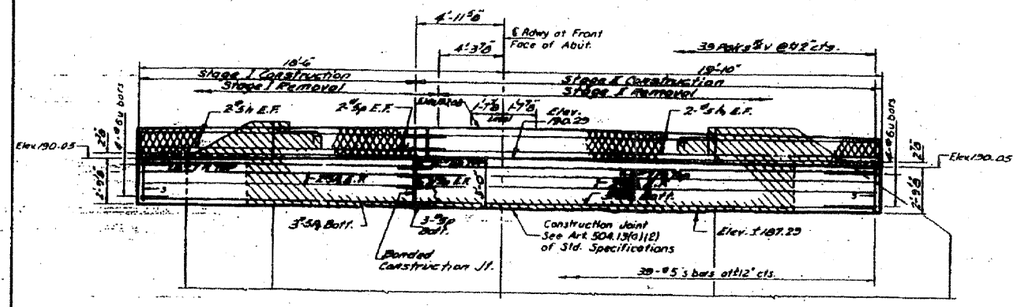
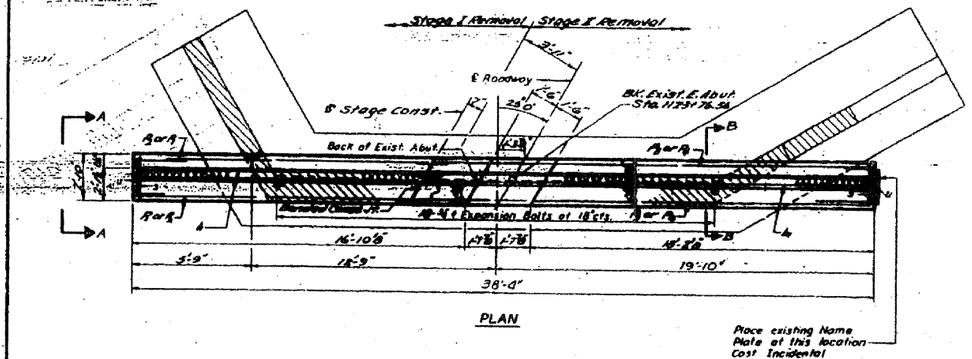
STATE OF ILLINOIS



ELEVATION

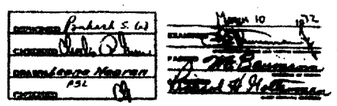


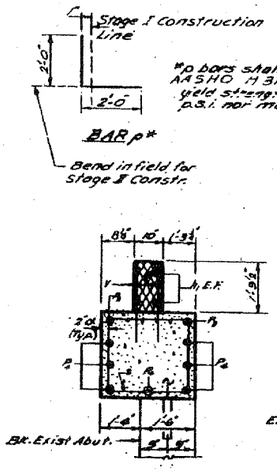
PLAN

Place existing Name Plate at this location Cost Incidental

Notes
Expansion Bolts shall be anchored in sound concrete. All edges shall have standard ¾" chamfers

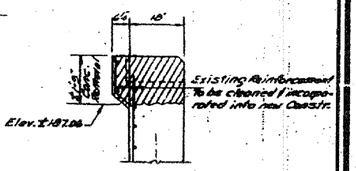
SYMBOLS:
▨ = Notched area indicating portion of Conc. removal
▩ = Cross-Notched area indicating portion of Conc. to be poured after beams are in place



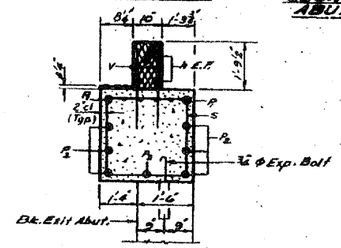


*p bars shall conform to the requirements of AASHO M31 or M53 except the minimum yield strength shall be not less than 33,000 p.s.i. nor more than 45,000 p.s.i.

SECTION B-B



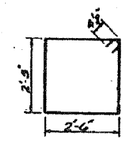
SEC. THRU EXISTING ABUT. AT ℄ RDWY.



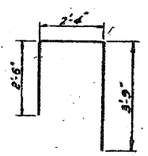
VIEW A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
A	4	#5	40'-0	
B	4	#5	39'-8	
C	11	#3	2'-9	
D	6	#7	17'-6	
E	7	#5	17'-6	
F	4	#7	39'-3	
G	7	#5	38'-9	
S	13	#3	10'-9	
U	8	#6	21'-0	
V	78	#3	2'-0	
Class X Concrete			13.8	
Reinforcement			1440	
Expansion Bolts			8	
Concrete Removal			18	



BAR s



BAR u

E. ABUTMENT
F.A. Rte. 761 Sec. 104-BR
GREENE COUNTY
Sta. 1139+25.00

A-6 (3-15-90) Sheet R.F. Fixed

FOR INFORMATION ONLY

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	PLOT SCALE = 100.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 12/18/2000	DATE -	REVISED -

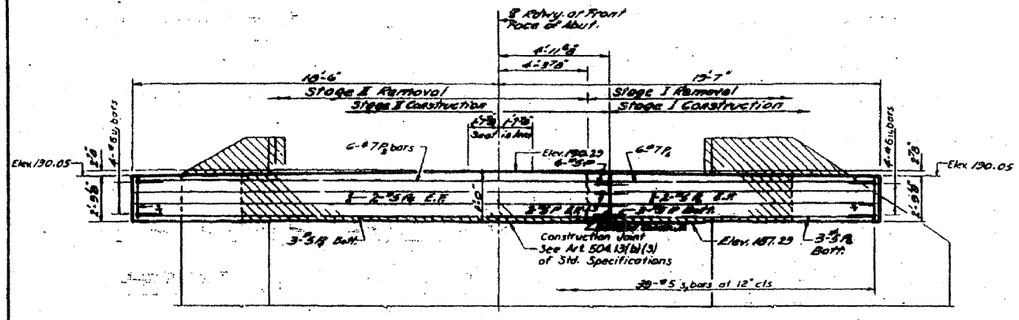
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS (SN 031-0042)

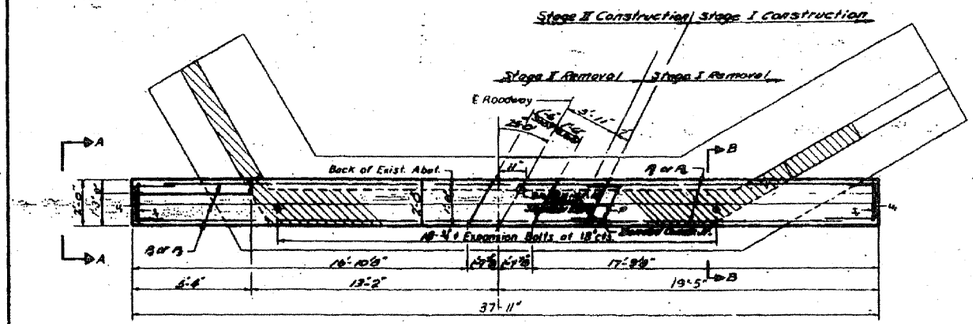
SCALE: NTS | SHEET NO. 70 OF 84 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	70
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

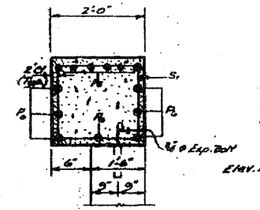
STATE OF ILLINOIS



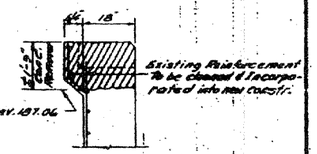
ELEVATION



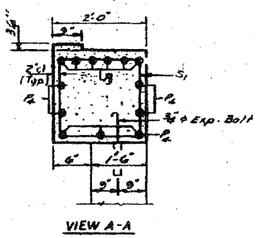
PLAN



SECTION B-B



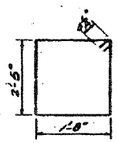
SEC. THRU EXISTING ABUT. AT ℄ RDWY.



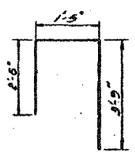
VIEW A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
P1	10	#7	2'-3"	
P2	6	#7	2'-3"	
A1	6	#4	8'-3"	
A2	6	#4	7'-10"	
P3	7	#4	8'-8"	
S1	25	#5	8'-11"	
U1	8	#8	7'-8"	
Class X Concrete		Cu Yds.	29	
Reinforcement Bars		Lbs.	1220	
Expansion Bolts		Each	48	
Concrete Removal		Cu Yds.	28	



BAR S3



BAR U1

ABUTMENT
F.A.P. RTE. 104-BR-2
GREENE COUNTY
STA. 11+28.62

Notes:
Hatched area indicates Concrete Removal. Reinforcement extending into removed area shall be cleaned and incorporated into the new construction.
Expansion Bolts shall be anchored in sound concrete
All edges shall have standard ¾ chamfers
For detail of Bar P see sheet #6

DESIGNED Prakash S. Lee
CHECKED Charles O. Sims
DRAWN Lenore Alexander P.B.L.
CHECKED
March 10 1972
APPROVED [illegible]

A-8 (5-15-71) Shaw R.F. Fixed

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	PLOT DATE = 12/18/2000	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS (SN 031-0042)

SCALE: NTS | SHEET NO. 71 OF 84 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	71
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

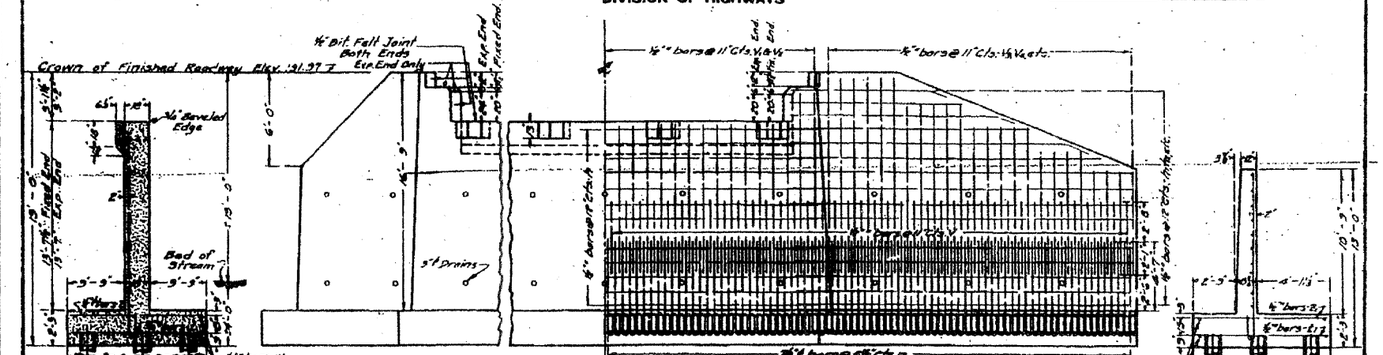
B.M. – N&W in 14" elm stump, 30' left of Sta. 1120+10 Elev. 188.73
No existing structure.

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

SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
108 104B	Greene	61	59

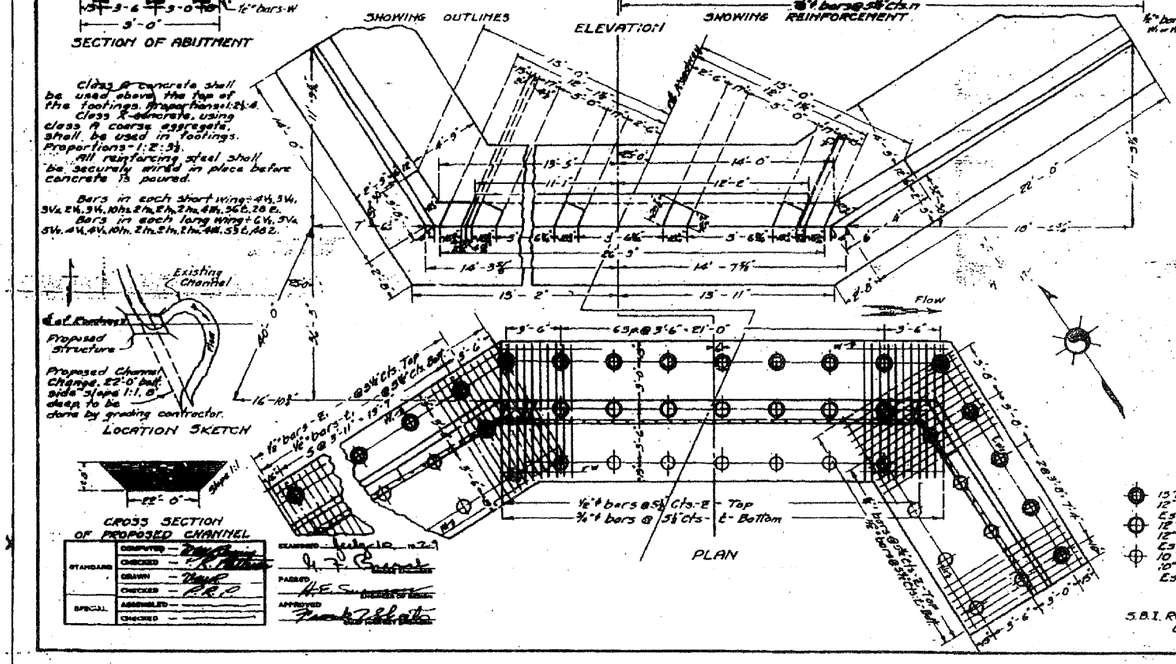
SHEET NO 2
2 SHEETS

Crown of Finished Roadway Elev. 191.27.7



Class B Concrete shall be used above the top of the footings. Proportions: 2½-4. Class X-elmcrete, using class A coarse aggregate, shall be used in footings. Proportions - 1:2:3½.
All reinforcing steel shall be securely angled in place before concrete is poured.

Bars in each short wing: 4½, 3½, 3½, 2½, 3½, 10th, 2 th, 2 th, 2 th, 6th, 36, 28 E.
Bars in each long wing: 6½, 5½, 5½, 4½, 4½, 10th, 2 th, 2 th, 2 th, 4th, 55 E, A62.



BILL OF MATERIAL

Bar	No.	Size	Length
V	138	#6	6'-3"
V1	52	#6	11'-0"
V2	8	#6	13'-0"
V3	20	#6	14'-0"
V4	16	#6	15'-6"
V5	16	#6	11'-0"
V6	10	#6	9'-6"
V7	18	#6	8'-0"
H	56	#6	22'-6"
H1	20	#6	24'-0"
H1'	4	#6	20'-0"
H2	4	#6	16'-0"
H3	4	#6	12'-0"
H4	20	#6	15'-0"
H5	4	#6	13'-0"
H7	4	#6	11'-0"
H9	4	#6	8'-0"
T	276	#6	8'-3"
E	186	#6	8'-9"
E1	178	#6	8'-9"
B	180	#6	8'-9"
B1	132	#6	8'-9"
W	8	#6	29'-0"
W1	8	#6	24'-6"
W2	8	#6	16'-6"

Cl. B Concrete-Cu. Yds. 207
Cl. X Concrete-Cu. Yds. 342
Reinforcing Steel Lbs. 9370

- 13 Ton Untreated Piling. 12" Butt. 10" Tip. 35 Req'd. Estimated Length 750 Lin. Ft.
- 12 Ton Untreated Piling. 12" Butt. 10" Tip. 16 Req'd. Estimated Length 320 Lin. Ft.
- 10 Ton Untreated Piling. 10" Butt. 8" Tip. 30 Req'd. Estimated Length 750 Lin. Ft.

S.B.I. ROUTE 108 - SECTION 104-B
GREENE COUNTY
STA. 1123+35

STANDARDS — COMPUTED — CHECKED — DRAWN — CHECKED
SPECIAL — ASSEMBLED — CHECKED

EXAMINED — Engineer in Charge
PASSED — Engineer of Bridges
APPROVED — Director of Highways

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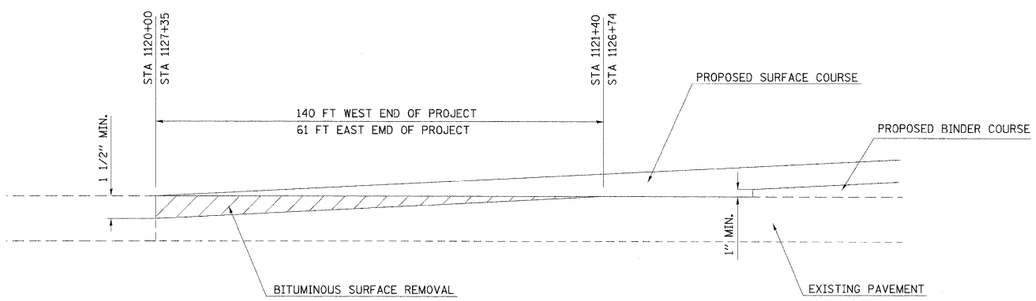
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS (SN 031-0042)

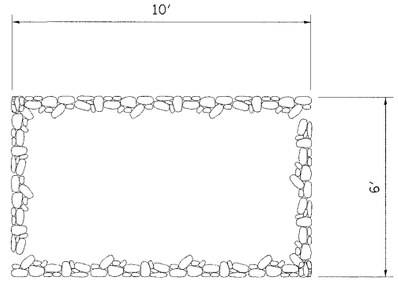
SCALE: NTS | SHEET NO. 72 OF 84 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	72
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



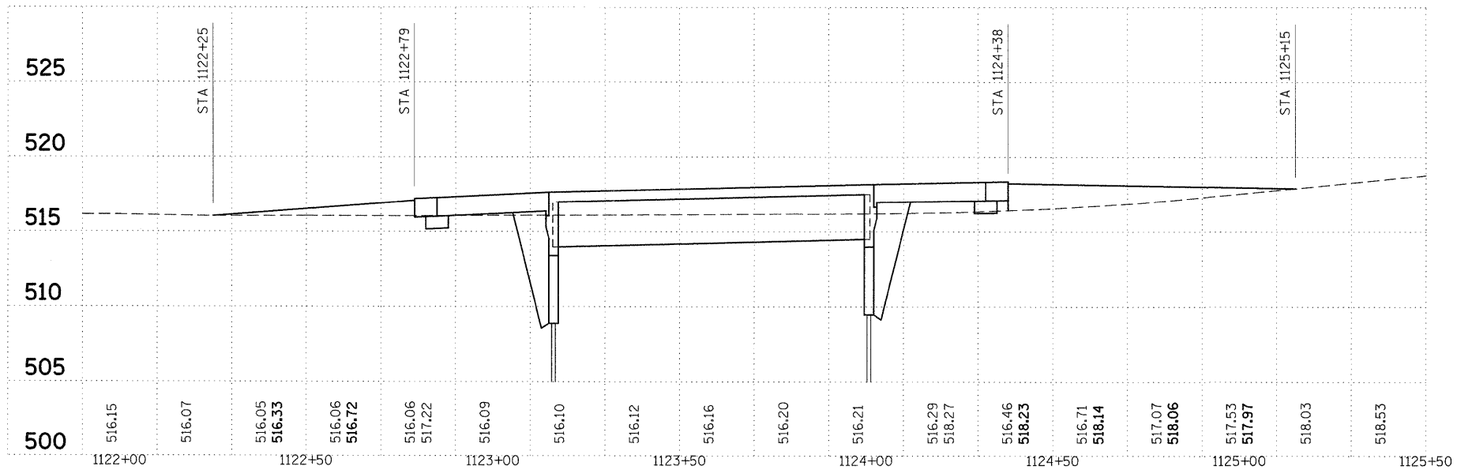
BUTT JOINT DETAIL

DETAIL 'A'



STONE RIPRAP, CLASS A3 DETAIL

DETAIL 'B'



STAGING RAMP DETAIL

DETAIL 'C'

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	PLOT DATE = 12/10/2008	DATE -	REVISED -

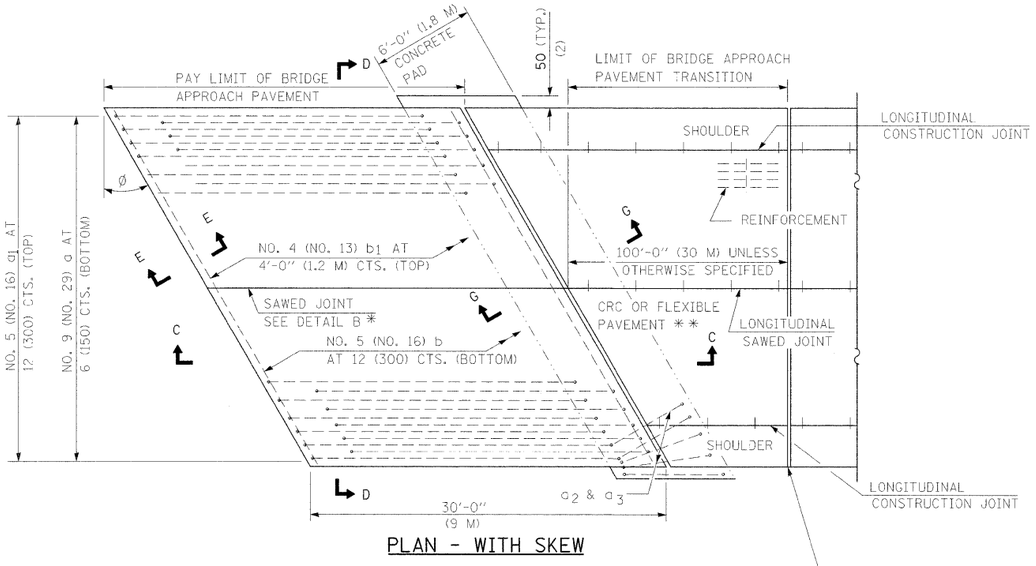
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS (SN 031-0042)

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	73
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

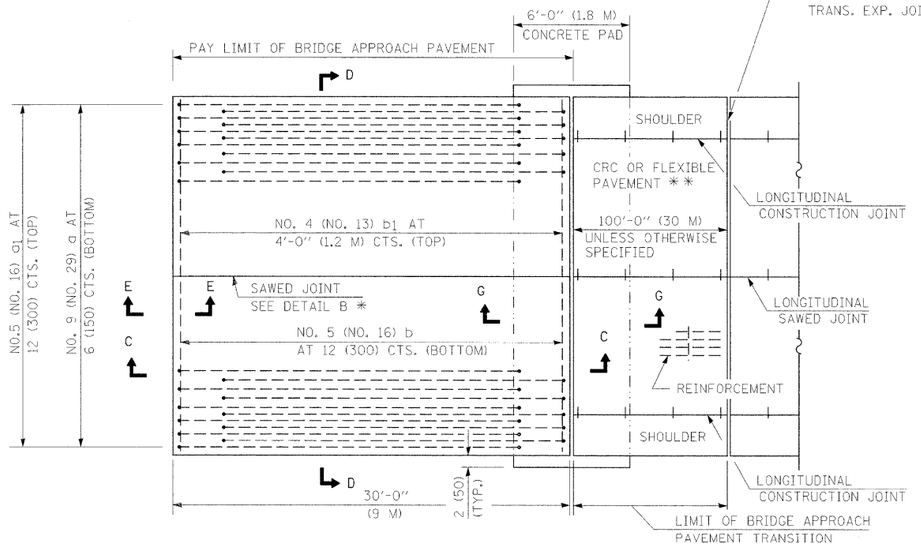
NEW CONSTRUCTION



PLAN - WITH SKEW

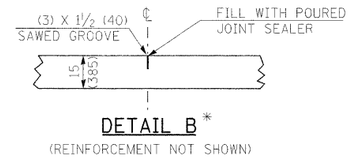
RIGID PAVEMENT ONLY:

WIDE FLANGE BEAM TERMINAL JOINT (SEE DETAIL AT BEAM - STANDARD 421101 OR 421106) OR 2 (50) TRANS. EXP. JOINT AS DETAILED ON STANDARD 420001.



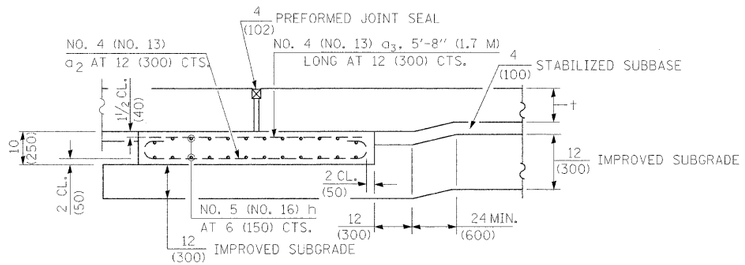
PLAN - WITHOUT SKEW

* SAW ℄ OR LANE EDGE IF POURED TWO OR MORE LANE WIDTHS AT A TIME.
* * OMIT REINFORCEMENT, TIE BARS AND LONG. SAWED JT. FOR FLEXIBLE PAVEMENT.



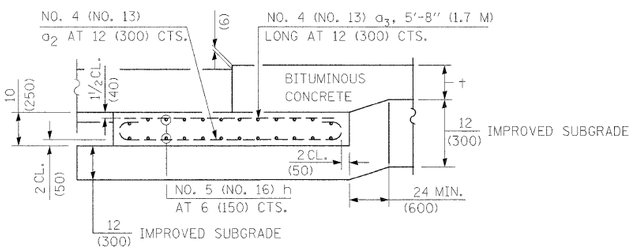
DETAIL B *

(REINFORCEMENT NOT SHOWN)



SECTION G-G - RIGID PAVEMENT

(SHOWING REINFORCEMENT)



SECTION G-G - FLEXIBLE PAVEMENT

(SHOWING REINFORCEMENT)

GENERAL NOTES

THICKNESS-"t"=THICKNESS OF PAVEMENT.

SEE STANDARD 421001 FOR REINFORCEMENT DETAILS NOT SHOWN.

SEE STANDARD 420001 FOR JOINT DETAILS NOT SHOWN.

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

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	PLOT DATE = 12/10/2008	DATE -	REVISED -

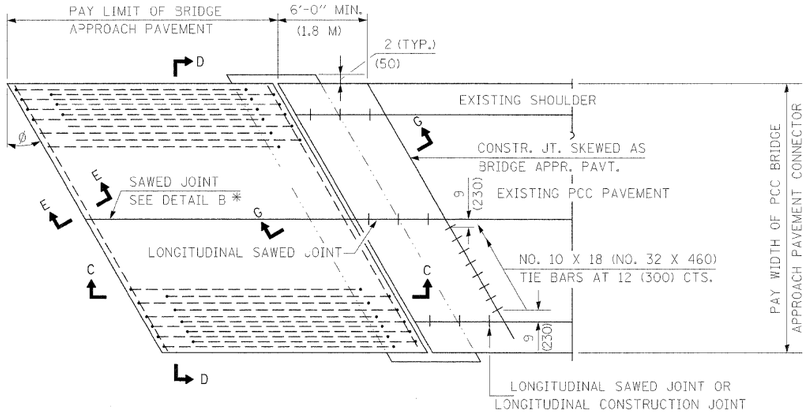
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS
BRIDGE APPROACH PAVEMENT DETAIL

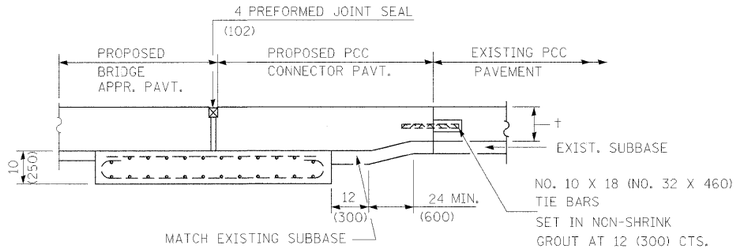
SCALE: | SHEET NO. 1 OF 4 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	74
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

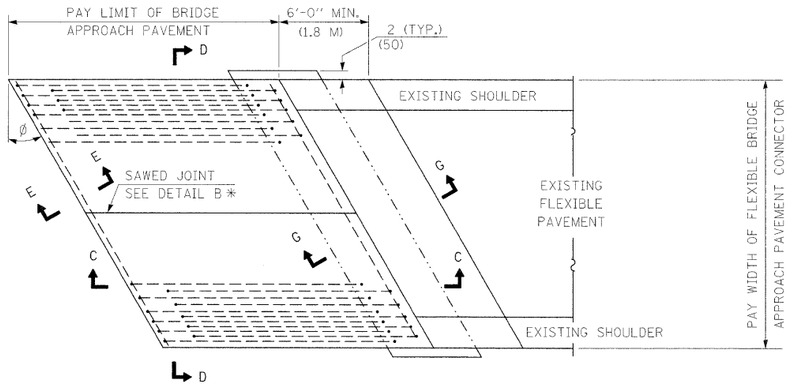
EXISTING CONSTRUCTION



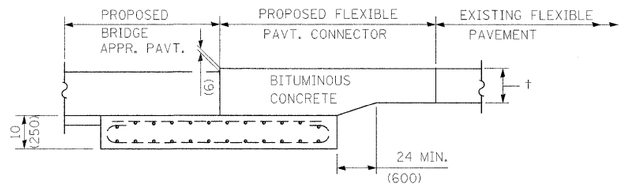
BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)



SECTION G-G - RIGID PAVEMENT



BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)



SECTION G-G - FLEXIBLE PAVEMENT

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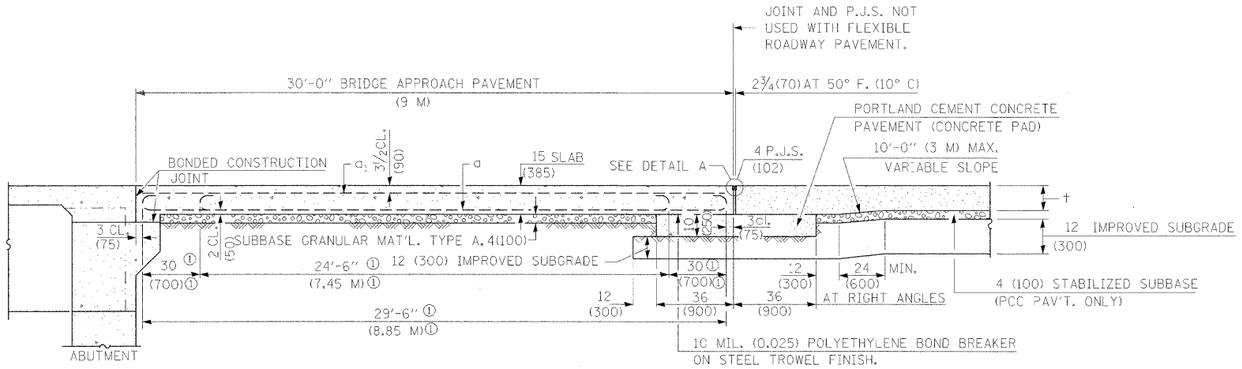
	PLOT DATE = 12/10/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS
BRIDGE APPROACH PAVEMENT DETAIL

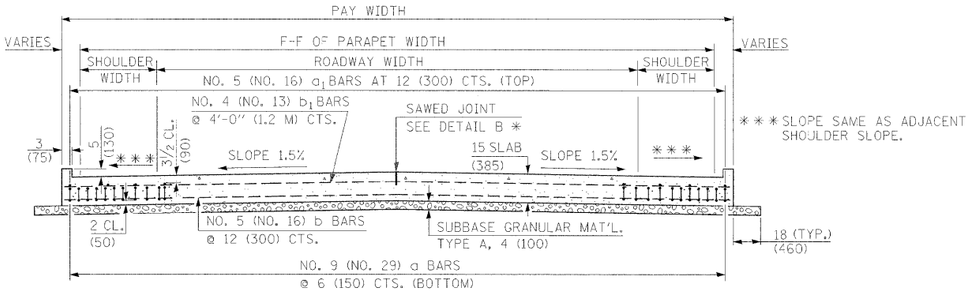
SCALE: | SHEET NO. 2 OF 4 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	75
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



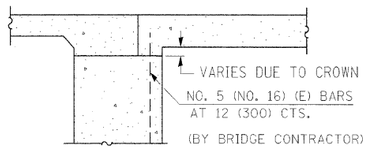
SECTION C-C

①STAGGER NO. 9 (NO. 29) A BARS AS SHOWN ON PLAN - FULL WIDTH



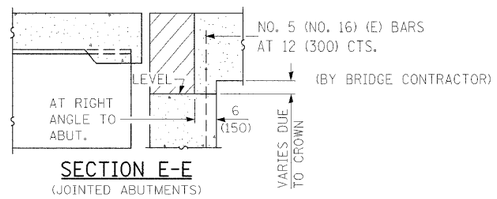
SECTION D-D

(SEE PLAN FOR DIMENSIONS NOT SHOWN)



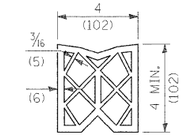
SECTION E-E

(INTEGRAL ABUTMENTS)

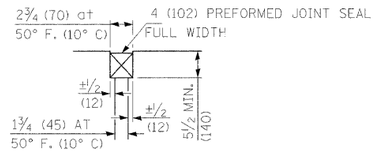


SECTION E-E

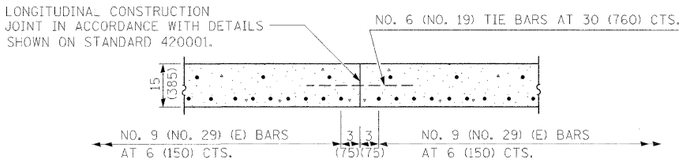
(JOINTED ABUTMENTS)



PREFORMED JOINT SEAL

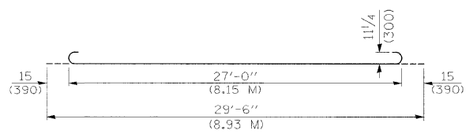


DETAIL A

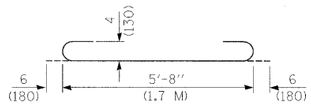


OPTIONAL LONGITUDINAL CONSTRUCTION JOINT

AS APPROVED BY THE ENGINEER, THE CONTRACTOR MAY ELECT TO REDUCE THE WIDTHS OF POUR BY USE OF THE OPTIONAL LONGITUDINAL CONSTRUCTION JOINT SHOWN. JOINTS SHALL BE LOCATED AT THE EDGE OF A TRAFFIC LANE.



BAR a



BAR a2

DESIGN STRESSES

fy = 60,000 P.S.I. (400 MPA)
f'c = 3,500 P.S.I. (24 MPA)
n = 8.5

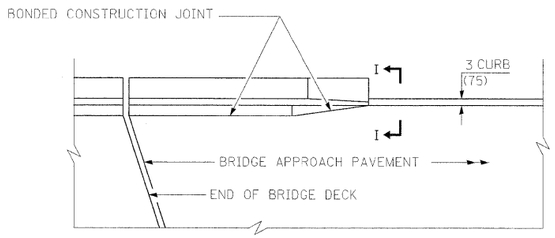
FILE NAME = c:\pw_work\pwidot\harbaughrd\dms51889\plan01506a.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 12/13/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

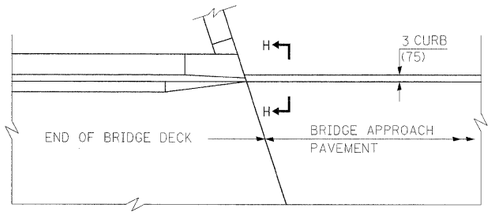
MISCELLANEOUS DETAILS
BRIDGE APPROACH PAVEMENT DETAIL

SCALE: | SHEET NO. 3 OF 4 SHEETS | STA. | TO STA.

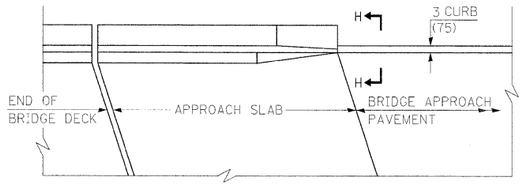
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	76
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



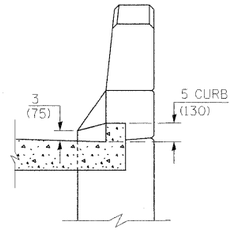
PARAPET TO CURB TRANSITION
PILE BENT ABUTMENT



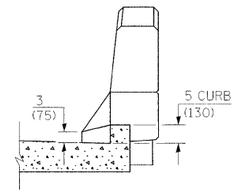
PARAPET TO CURB TRANSITION
INTEGRAL ABUTMENT



PARAPET TO CURB TRANSITION
VAULTED ABUTMENT



SECTION I - I

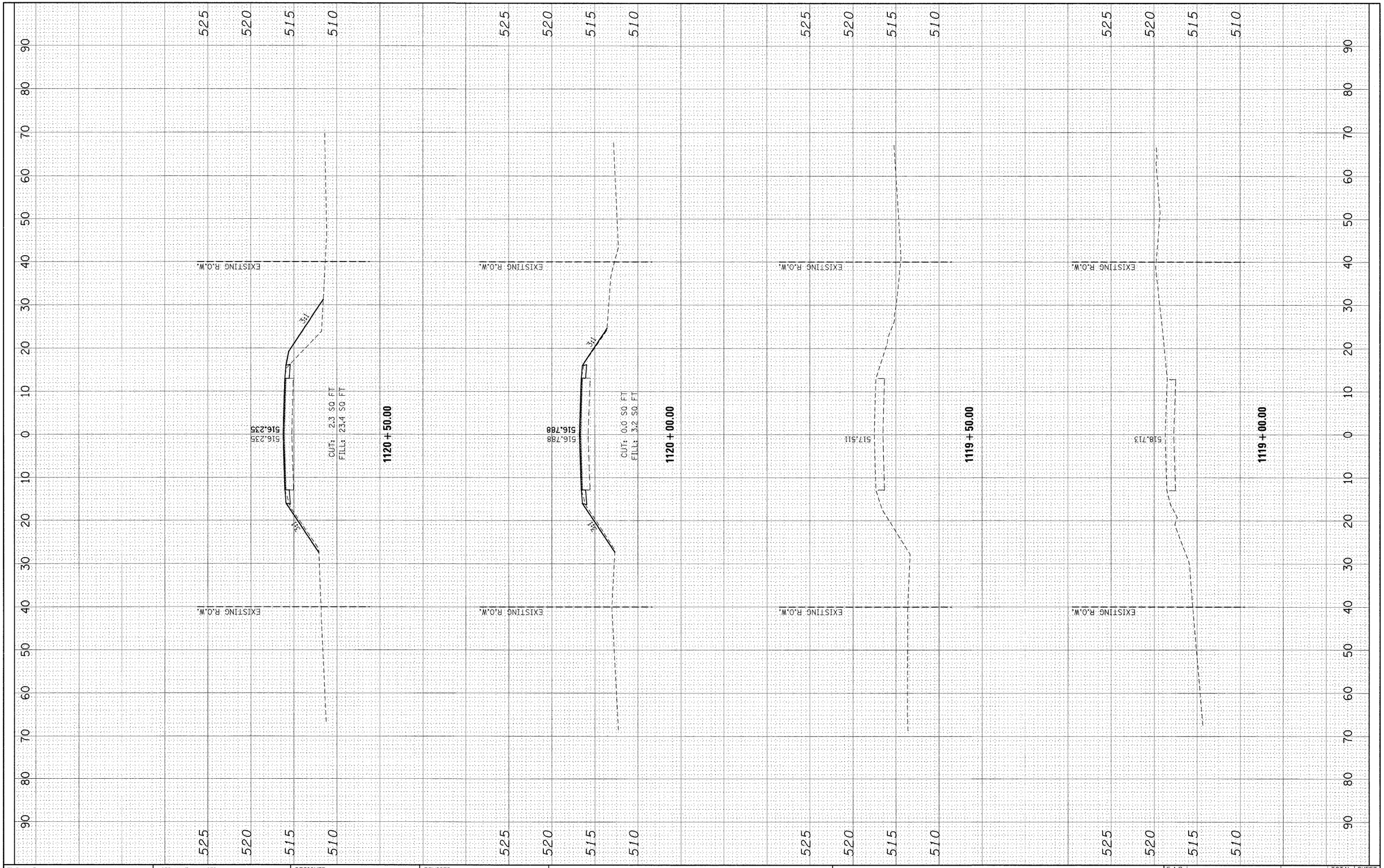


SECTION H - H

FILE NAME = c:\pw_work\pwidot\harbaughrd\dms51889\plt01506a.dgn	USER NAME = harbaughrd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISCELLANEOUS DETAILS BRIDGE APPROACH PAVEMENT DETAIL			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					761	104-BR-2	GREENE	82	77
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -							CONTRACT NO. 76987		
	PLOT DATE = 12/10/2008	DATE -	REVISED -		SCALE:	SHEET NO. 4 OF 4 SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

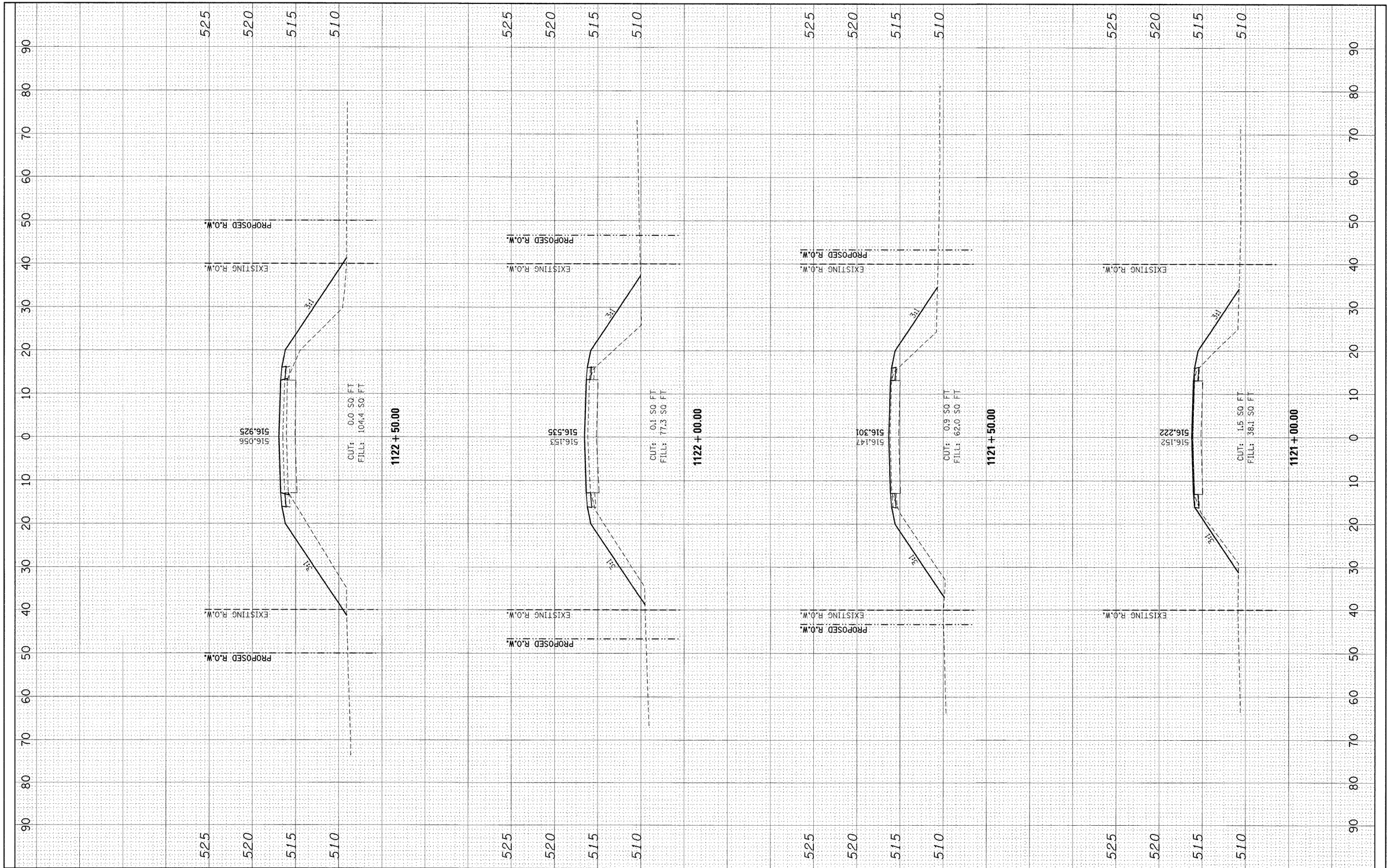
CROSS SECTION (SN 031-0042)

SCALE: | SHEET NO. 1 OF 5 SHEETS | STA. 1119+00.00 TO STA. 1120+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	78
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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$FILE1$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION (SN 031-0042)

SCALE: | SHEET NO. 2 OF 5 SHEETS | STA. 1121+00.00 TO STA. 1122+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	79
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILE$		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

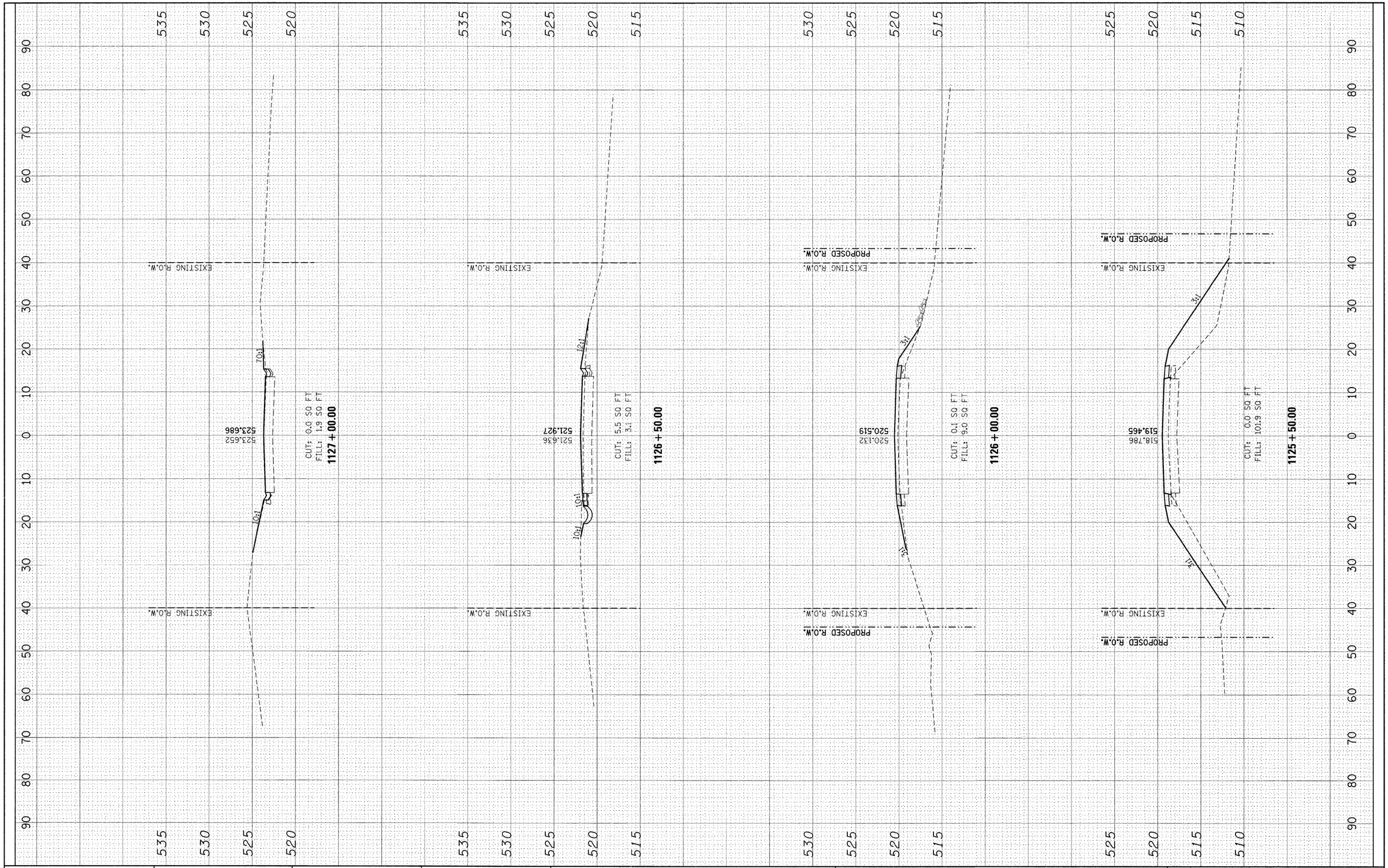
CROSS SECTION (SN 031-0042)

SCALE: | SHEET NO. 3 OF 5 SHEETS | STA. 1123+00.00 TO STA. 1125+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	80
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE =	CHECKED -	REVISED -
	PLOT DATE =	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

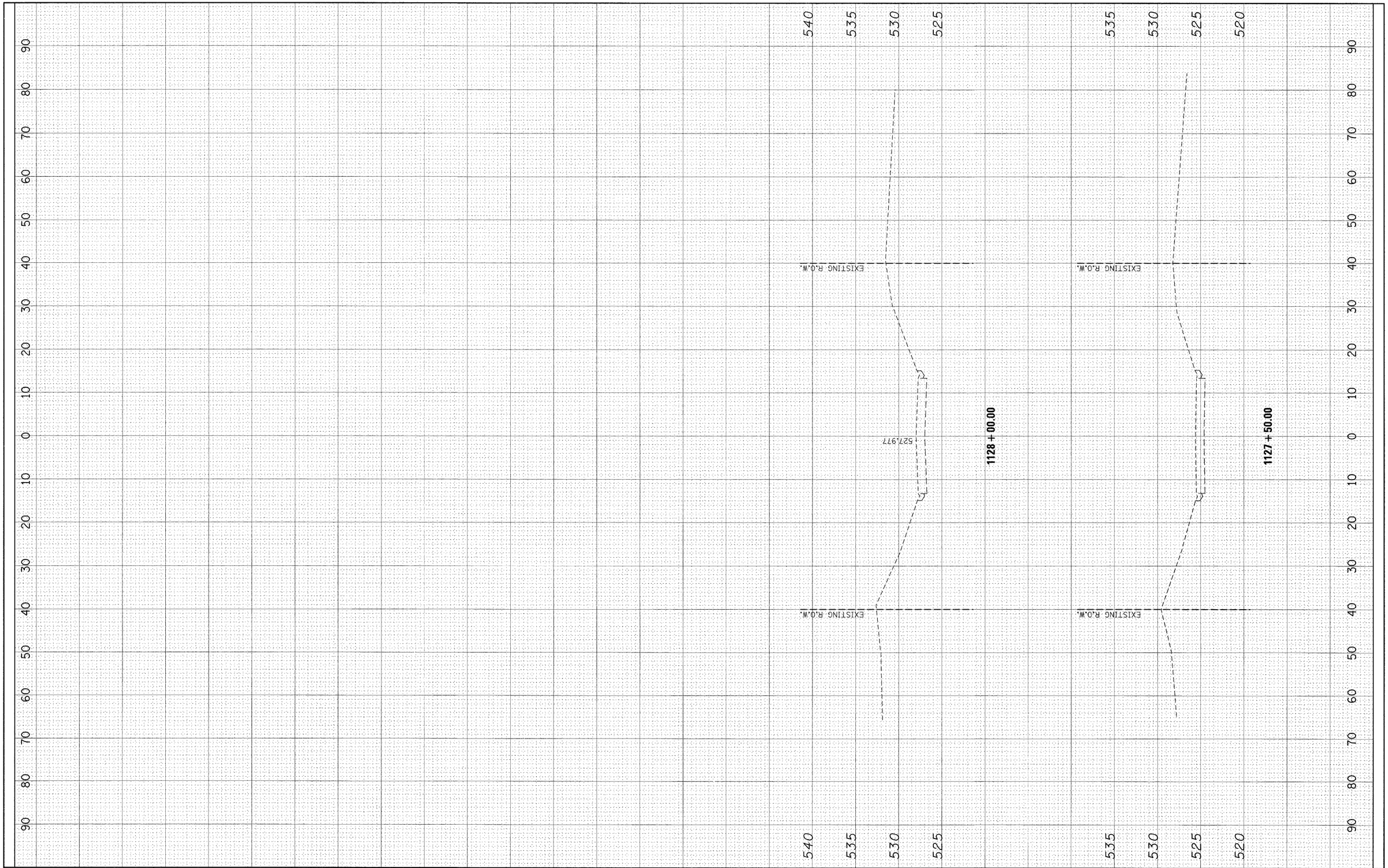
CROSS SECTION (SN 031-0042)

SCALE: | SHEET NO. 4 OF 5 SHEETS | STA. 1125+50.00 TO STA. 1127+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	81
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	TYPED & CK'D		
	AREAS		
NO.	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	TYPED & CK'D		
	AREAS		
NO.	AREAS CHECKED		



FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION (SN 031-0042)

SCALE: | SHEET NO. 5 OF 5 SHEETS | STA. 1127+50.00 TO STA. 1128+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
761	104-BR-2	GREENE	82	82
		CONTRACT NO. 76987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		