4-25-08 Letting, Item 093

CONTRACT NO. 68115

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	(107B)BR	STARK	39	1

PROJECT ENGINEER: JIM MILLER (309) 671-3451

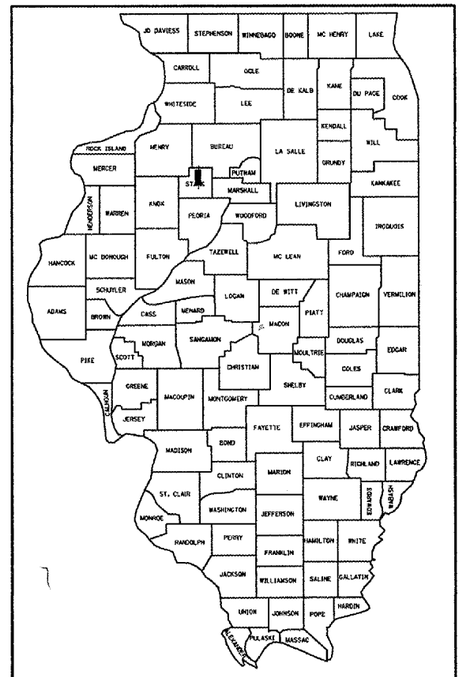
LIAISON ENGINEER: JIM MILLER (309) 671-3451

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

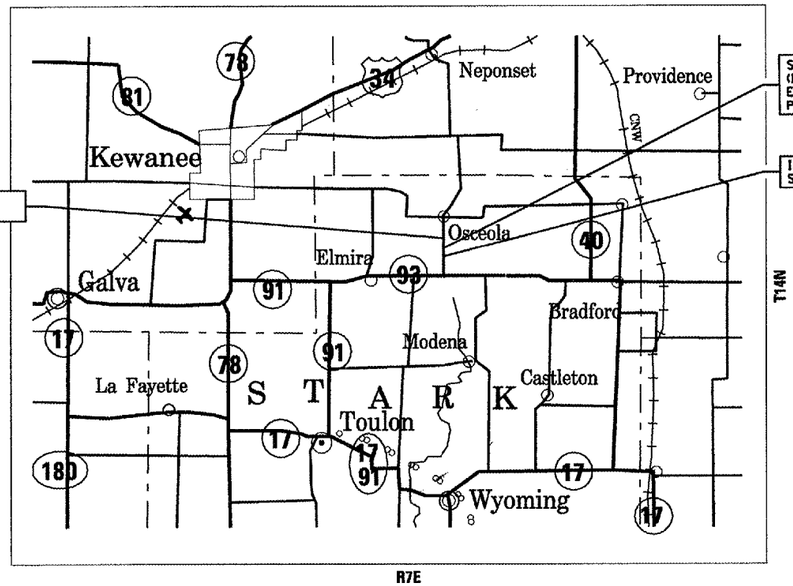
PROPOSED HIGHWAY PLANS

FAS ROUTE 2244
SECTION (107B)BR
PROJECT ACRS-2244(101)
STARK COUNTY
C-94-143-00

D-94-101-00



LOCATION OF SECTION INDICATED THUS: –



IMPROVEMENTS BEGINS
STA. 83+50 (OSCEOLA RD.)

STA. 85+31.81 SINGLE SPAN BRIDGE
(1 @ 64', 15° RT. SKEW)
EXISTING S.N. 088-0017
PROPOSED S.N. 088-0029

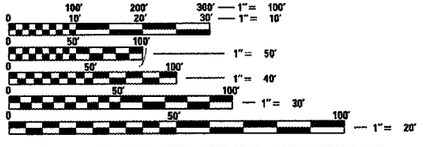
IMPROVEMENTS ENDS
STA. 87+30.00 (OSCEOLA RD.)

INDEX OF SHEETS

1	COVER SHEET
2	GENERAL NOTES, AND COMITTMENTS
3	SUMMARY OF QUANTITIES
4	SCHEDULES
5–6	TYPICAL SECTIONS
7	DETOUR PLAN
8–9	PLAN & PROFILE SHEETS
10	RIGHT OF WAY PLANS
11–12	TYPE B GUTTER (INLET & OUTLET)
13	EROSION CONTROL PLAN
14–23	BRIDGE PLANS
24–31	DISTRICT CADD STANDARD DETAILS
32–39	CROSS SECTIONS

STANDARDS

280001-04 631032-03 BLR22-5
482001-02 635006-02 406101-D4
515001-02 665001-01 406201-D4
606201-01 666001 406401-D4
630001-07 701901 440001-D4
630301-04 780001-01 630101-D4



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

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

CONTRACT NO. 68115

CLASSIFICATION: MAJOR COLLECTOR (NON-URBAN)
ADT: 275 (2002), 335 (2014)
DESIGN SPEED: 55 MPH
POSTED SPEED: 55 MPH

Prepared By

Foth
7500 NORTH HARKER DRIVE
PEORIA, ILLINOIS 61615
PHONE: (309) 691-5300
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DESIGN FIRM REGISTRATION NO. 184-003283

JAMES F. SCHMUDDE 36931 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

JAMES F. SCHMUDDE P.E. DATE Jan 23, 2008
IL REG. NO. # 062-036930
LICENSE EXPIRES 11-30-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Jan 31 20 08
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
March 21 2008
Erie E. Harm
Interim ENGINEER OF DESIGN AND ENVIRONMENT
March 21, 2008
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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PLOT DATE = 1/21/2008 USER NAME = cxl

FINAL SUBMITTAL 02/01/08 FVD # 5589.80

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CONTRACT NO. 68115

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	(107B) BR	STARK	39	2
STA.	TO STA.			
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

AVAILABILITY OF ELECTRONIC FILES

MicroStation and GEOPAK files of this project will be made available to the Contractor. If there is a conflict between the electronic files and the printed contract plans and documents, the printed contract plans and documents shall take precedence over the electronic files. The Contractor shall accept all risk associated with using the electronic files and shall hold the Department harmless for any errors or omissions in the electronic files and the data contained therein. Errors or delays resulting from the use of the electronic files by the Contractor shall not result in an extension of time for any interim or final completion date or shall not be considered cause for additional compensation. The Contractor shall not use, share, or distribute these electronic files except for the purpose of constructing this contract. Any claims by third parties due to use or errors shall be the sole responsibility of the Contractor. The Contractor shall include this disclaimer with the transfer of these electronic files to any other parties and shall include appropriate language binding them to similar responsibilities.

UTILITIES – LOCATIONS/INFORMATION ON PLANS

The locations of existing water mains, gas mains, sewers, electric power lines, telephone lines and other utilities as shown on the plans are based on careful field investigation and the best information available, but they are not guaranteed. Unless elevations are shown — all utility locations shown on the cross sections are based on the approximate depth supplied by the utility company. It shall be the Contractor's responsibility to ascertain their exact location from the utility companies and by field inspection.

PLAN ELEVATIONS – U.S.G.S. MEAN SEA LEVEL DATUM

All elevations shown on the plans are established from U.S.G.S. mean sea level datum.

COMMITMENTS

Commitments are not to be altered without the written approval of all parties to which the commitment was made.

PROPERTY OWNER ACCESS REQUIREMENT

Access must be maintained to all existing properties during construction per article 107.09 unless arrangements are made in writing by the Contractor with the property owners with a copy to the Engineer for short-term closures.

CRITICAL PATH WORK SCHEDULE REQUIREMENT

The Contractor will submit to the Engineer a satisfactory progress schedule and critical path schedule which show the proposed sequence of work at the time of the pre-construction conference.

CLEARING

At locations where clearing is indicated on the plans beyond the limits of the proposed excavation or embankment, the Contractor shall restore the disturbed earth by blading and shaping to blend with the adjacent ground. The clearing will not be paid for separately but shall be included in the cost of Earth Excavation. Payment for reseeding or resodding shall be as provided in the plans.

TREE REMOVAL

The District Four Tree Committee should be contacted and prior approval obtained for any tree removal beyond the limits/locations included in the plans.

EARTH EXCAVATION – INCIDENTAL TO CURB, GUTTER & DRIVEWAY

Earth excavation and backfill for proposed curb and gutters and driveway pavements shall be included in the unit cost of the various items.

AGGREGATE (BASE COURSE), TYPE B

Aggregate (Base Course), Type B shall be required for all granular construction of side roads, entrances, and mailbox turnouts, whether or not portions of the surfaces thus constructed are to be covered with a bituminous surface, except where noted differently on the plans.

LABORATORY TESTING OF SUPERPAVE MIXES

Some aggregate compositions produce inconsistent results when burned in the ignition oven. The Engineer will determine whether the ignition oven or AC nuclear gauge will be required after the aggregate sources have been identified.

GENERAL NOTES (continued)

ENVIRONMENTAL REVIEWS

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run-arounds. etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

Prior to any waste materials being removed from the construction site the required environmental resource surveys will need to be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

The required environmental resource documentation shall include the following:

*BDE Form 2289 (Environmental Survey Request)
*A location map showing the size limits and location of the use area
*Signed property owner agreement form
*Color photographs depicting the use area

Please note that a minimum of two weeks shall be allowed for the District to obtain the required environmental clearances.

PAVEMENT STATION NUMBERS & PLACEMENT

The Contractor shall provide labor and materials required to imprint pavement station numbers in the finished surface of the pavement and/or overlay. The numbers shall be approximately 20 mm (3/4 inch) wide, 125 mm (5 inches) high and 15 mm (5/8 inch) deep.

The pavement station numbers shall be installed as specified herein:
Interval – 100 meters (metric stationing) or 200 feet (English stationing)
Bottom of Numbers – 150 mm (6 inches) from the inside edge of the pavement marking
Location:
*2, 3, & 5 Lane Pavements – right edge of pavement in direction of increasing stations
*Multi-Lane Divided Roadways – outside edge of pavement in both directions
*Ramps – along baseline edge of pavement
Position – stations shall be placed so they can be read from the adjacent shoulder
Format – Metric (English) pavement stations shall use this format "XX+X00 (XXX)", where X represents the pavement station

This work will not be paid for separately, but will be considered included in the cost of the associated pavement and/or overlay pay items.

SIGNING

Sign locations may vary from the stations shown on the plans in accordance with directions from the Engineer at the time of construction. Sign locations may be adjusted in the field to avoid any found utilities.

All post locations shall be verified with the Bureau of Operations, Traffic Section, before installation.

For stabilization, all type III barricades shall require a minimum of four sandbags per barricade.

COMMITMENTS

No commitments have been made for this project.

BITUMINOUS CONCRETE MIXTURE REQUIREMENTS

The following mixture requirements are applicable for this project:

LOCATION(S):			
MIXTURE USE(S):	SURFACE COURSE	BITUMINOUS SHOULDER (LOWER LIFTS)	BITUMINOUS SHOULDER (SURFACE LIFT)
AC/PG:	PG 64-22	PG 64-22	PG 64-22
RAP %: (MAX)**	15 %	30 %	30 %
DESIGN AIR VOIDS:	4.2 % @ N = 50	4.0 % @ N = 30	3.0 % @ N = 30
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5 OR 12.5	IL 19.0 L	IL 9.5 L
FRICTION AGGREGATE	MIX D	N.A.	MIX C

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND COMMITMENTS

SCALE: VERT. HORIZ. DRAWN BY
DATE CHECKED BY

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USER NAME = cwl

Prepared by: Foth Infrastructure & Environment, LLC

FINAL SUBMITTAL 02/01/08 FVD # 5589.80

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	(107B)BR	STARK	39	3
STA. 83+50 TO STA. 87+30				
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

STRUCTURE S.N. 088-0029 80% FEDERAL 20% STATE

CODE NO.	SUMMARY OF QUANTITIES PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE X081-2A	
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	184	184	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	85	85	
20200100	EARTH EXCAVATION	CU YD	505	505	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	70	70	
20400100	BORROW EXCAVATION	CU YD	125	125	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1095	1095	
25000100	SEEDING, CLASS 1	ACRE	0.23	0.23	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	20	20	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	20	20	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	20	20	
25100630	EROSION CONTROL BLANKET	SQ YD	854	854	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	90	90	
28000300	TEMPORARY DITCH CHECKS	EACH	8	8	
28000400	PERIMETER EROSION BARRIER	FOOT	1131	1131	
28100107	STONE RIPRAP, CLASS A4	SQ YD	617	617	
28200200	FILTER FABRIC	SQ YD	617	617	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	164	164	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	64	64	
40600300	AGGREGATE (PRIME COAT)	TON	2	2	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	133	133	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	71	71	
44000100	PAVEMENT REMOVAL	SQ YD	98	98	
44000400	GUTTER REMOVAL	FOOT	295	295	
44002500	GUTTER OUTLET REMOVAL	EACH	2	2	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	15	15	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	305	305	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1	
50200100	STRUCTURE EXCAVATION	CU YD	18.3	18.3	
50300225	CONCRETE STRUCTURES	CU YD	31.9	31.9	
50300260	BRIDGE DECK GROOVING	SQ YD	213	213	
50300300	PROTECTIVE COAT	SQ YD	228	228	
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	218.4	218.4	

SUMMARY OF QUANTITIES

STRUCTURE S.N. 088-0029 80% FEDERAL 20% STATE

	CODE NO.	SUMMARY OF QUANTITIES PAY ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE X081-2A	
	50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	1965	1965	
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	7,410	7,410	
*	50901050	STEEL RAILING, TYPE SM	FOOT	126	126	
	51201600	FURNISHING STEEL PILES HP 12X53	FOOT	329	329	
	51202305	DRIVING PILES	FOOT	329	329	
	51203600	TEST PILE STEEL HP 12X53	EACH	1	1	
	51500100	NAME PLATES	EACH	1	1	
	542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	73	73	
	54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2	2	
	58700300	CONCRETE SEALER	SQ. FT	399	399	
	60600095	CLASS SI CONCRETE (OUTLET)	CU YD	9.7	9.7	
*	63000000	STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	37.5	37.5	
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
	63200310	GUARDRAIL REMOVAL	FOOT	327	327	
	66500105	WOVEN WIRE FENCE, 4'	FOOT	171	171	
	66502300	WOVEN WIRE FENCE REMOVAL	FOOT	189	189	
	66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	1	1	
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4	
	67100100	MOBILIZATION	L SUM	1	1	
	70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	1	1	
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	632	632	
*	78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	79	79	
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	8	8	
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
	X0301512	GUARDRAIL AGGREGATE EROSION CONTROL	TON	53	53	
	Z0000100	ABANDON EXISTING CULVERT	EACH	1	1	
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	

*SPECIALTY ITEM

SUMMARY OF QUANTITIES
OSCEOLA RD. OVER SPOON RIVER TRIB.
F.A.S. ROUTE 2244 - SECTION (107B)BR
STARK COUNTY
STA. 85+31.81
S.N. 088-0017(E) S.N. 088-0029(P)

CONTRACT NO. 68115

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	(107B) BR	STARK	39	4
STA.	TO STA.			
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

REMOVAL SUMMARY

LOCATION	PAV'T REMOVAL	GUTTER REMOVAL	GUTTER OUTLET REMOVAL	GUARDRAIL REMOVAL	WOVEN WIRE FENCE REMOVAL	HOT-MIX ASPHALT SURF REM BUTT-JT
	(SQ YD)	(FOOT)	(EACH)	(FOOT)	(FOOT)	(SQ YD)
STA. 84+00.00 TO STA. 85+00.00				116.8	36.1	66.5
STA. 85+00.00 TO STA. 85+64.00	97.8	59		87.1		
STA. 85+64.00 TO STA. 86+98.00		236	2	122.96		66.5
STA. 10+43.98 TO STA. 12+00.00					152.6	
TOTAL	98	295	2	327	189	133

PAVING SUMMARY - MAINLINE

LOCATION	HOT-MIX ASPH. SC "D", N50	HOT-MIX SHOULDERS	AGG. SHOULDERS	BIT. PRIME COAT	AGG. PRIME COAT
	(TON)	(SQ YD)	(TON)	(GAL)	(TON)
STA. 83+50.00 TO STA. 83+80.00	5.6	40.0	4.7	3.33	0.13
STA. 83+80.000 TO STA. 84+10.00	6.1	40.0	3.0	5.26	0.14
STA. 84+10.00 TO STA. 85+00.00	20.2	95.4	0.5	10.0	0.4
STA. 85+00.00 TO STA. 87+00.00	25.39	129.3	2.1	15.11	0.6
STA. 87+00.00 TO STA. 87+30.00	5.6		4.6	3.33	0.13
STA. 10+10.33 TO STA. 10+35.70	7.55			26.95	0.18
TOTAL	71	305	15	64	2

AGGREGATE SURFACE COURSE, TYPE B

LOCATION - SIDEROAD	MAINLINE (SQ YD)	SHOULDER (SQ YD)
STA. 10+10.00 TO STA. 10+34.93		6.3
STA. 10+34.93 TO STA. 11+20.00	149.9	29.1
STA. 11+20.00 TO STA. 12+00.00	104.7	12.5
TOTAL		164

DRAINAGE

LOCATION	CLASS SI OUTLET	CULV. CL A, TI 24"	PRC FLARED END 24"	ABANDON EXISTING CULVERT
	(CU YD)	(FOOT)	(EACH)	(EACH)
STA. 84+41 TO STA. 85+00				1
STA. 85+00 TO STA. 86+64				
STA. 86+64 TO STA. 87+00	9.7			
STA. 10+54.00 RT. TO STA. 10+55.00 LT.		73	2	
TOTAL	9.7	73	2	1

TREE REMOVAL (6 TO 15 UNITS DIAMETER)

LOCATION	UNITS
STA. 84+42, 51' RT.	12
STA. 84+81, 66' RT.	6
STA. 84+81, 80' RT.	6
STA. 84+87, 86' RT.	9
STA. 84+93, 45' RT.	6
STA. 84+94, 54' RT.	6
STA. 84+94, 54' RT.	6
STA. 84+97, 36' RT.	14
STA. 85+05, 41' RT.	8
STA. 85+15, 29' RT.	10
STA. 85+15, 29' RT.	15
STA. 85+15, 29' RT.	15
STA. 85+18, 35' RT.	6
STA. 85+27, 33' RT.	6
STA. 85+62, 29' RT.	10
STA. 85+62, 29' RT.	14
STA. 85+62, 29' RT.	14
STA. 85+62, 29' RT.	14
STA. 85+68, 28' RT.	7
TOTAL	184

TREE REMOVAL (OVER 15 UNITS DIAMETER)

LOCATION	UNITS
STA. 84+33, 56' RT.	65
STA. 84+98, 29' LT.	20
TOTAL	85

LOCATION	EARTH EXCAVATION	REM & DISP UNS MATL	FILL	FILL + 25%	BORROW EXCAVATION	TOPSOIL	SEEDING CLASS 1A	FERTILIZER NUTRIENT		
								NITROGEN	PHOSPHOROUS	POTASSIUM
	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(SQ YD)	(ACRE)	(POUND)	(POUND)	(POUND)
STA. 83+50.00 TO STA. 85+00.00	39.9	6	40	50	16	299.7	0.06	5.4	5.4	5.4
STA. 85+00.00 TO STA. 87+00.00	82	0	2	3	-79	60.3	0.02	0.9	0.9	0.9
STA. 10+20.00 TO STA. 10+60.00 - SIDEROAD	195	21	140	175	1	198.0	0.04	3.6	3.6	3.6
STA. 10+60.00 TO STA. 12+00.00 - SIDEROAD	188	40	266	333	185	536.4	0.11	9.9	9.9	9.9
	505	67	448	561	122	1095	0.23	20	20	20

NOTES
1. ASSUME 25% SHRINKAGE FACTOR
2. ALL UNSUITABLE MATERIAL SHALL BE PLACED ON-SITE AT THE DIRECTION OF THE ENGINEER

EROSION CONTROL BLANKET

LOCATION	RIGHT	DITCH	LEFT		SQ YD
STA. 10+00.00 TO STA. 10+20.00	59.7				6.6
STA. 10+20.00 TO STA. 10+40.00	241.7	37.4			31.0
STA. 10+40.00 TO STA. 10+55.00	299.3	75.1	142.0		57.4
STA. 10+55.00 TO STA. 10+60.00	113.48	36.9	47.3		22.0
STA. 10+60.00 TO STA. 10+80.00	446.6	154.3			66.8
STA. 10+80.00 TO STA. 11+00.00	413.3	120.0	144.5		75.3
STA. 11+00.00 TO STA. 11+50.00	979.5	50.4	703.8		192.6
STA. 11+50.00 TO STA. 12+00.00	470.8		342.5		90.4
STA. 83+50.00 TO STA. 84+00.00	647.5		815.5		162.6
STA. 84+00.00 TO STA. 84+50.00	470.5		392.5		95.9
STA. 86+00.00 TO STA. 86+50.00	162.5				18.1
STA. 86+50.00 TO STA. 87+00.00	237.5		20.8		28.7
STA. 87+00.00 TO STA. 87+30.00	45.0		12.5		6.4
				TOTAL	854

PERIMETER EROSION CONTROL BARRIER

LOCATION	FOOT
STA. 83+78.26, 32.96' LT. TO STA. 84+27.06, 32.96' RT.	48.8
STA. 84+27.06, 32.96 RT TO STA. 84+27.06, 46.96 RT	16.5
STA. 84+27.06, 42.30 LT TO STA. 85+48.55, 26.93 RT	221.7
STA. 85+14.04, 54.59 RT TO STA. 85+65.51, 45.21 RT	52.8
STA. 85+23.93, 27.74 RT TO STA. 85+48.55, 26.93 RT	24.7
STA. 85+57.10, 44.30 LT TO STA. 87+28.57, 16.87 LT	174.9
STA. 85+57.10, 44.30 LT TO STA. 86+46.35, 30.49 RT	143.8
STA. 85+90.48, 51.82 RT TO STA. 87+28.52, 17.26 RT	149.3
STA. 10+45.42, 13.19 RT TO STA. 11+99.88, 0.37 RT	154.2
STA. 10+66.00, 60.53 LT TO STA. 11+99.88, 44.99 LT	143.4
TOTAL	1131

STONE RIPRAP, CLASS A4

LOCATION	SQ YD
STA. 10+54.36, 40.0' LT. TO STA. 10+48.51, 80.0' LT.	71.5
TOTAL	72

FILTER FABRIC FOR USE WITH RIPRAP

LOCATION	SQ YD
STA. 10+54.36, 40.0' LT. TO STA. 10+48.51, 80.0' LT.	71.5
TOTAL	72

STEEL PLATE BEAM GUARDRAIL, TYPE A

LOCATION	SQ YD
STA. 10+21.14, 22.5' LT. TO STA. 10+46.53, 7.35' LT.	37.5
TOTAL	37.5

TRAFFIC BARRIER TERMINAL, TYPE 6A

LOCATION	EACH
STA. 84+72.82 TO STA. 84+04.07 RT.	1
STA. 84+64.28 TO STA. 84+95.53 LT.	1
STA. 85+59.51 TO STA. 85+90.76 LT.	1
STA. 85+68.13 TO STA. 85+99.38 RT.	1
TOTAL	4

TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)

LOCATION	EACH
STA. 85+99.38 TO STA. 86+36.88 RT.	1
STA. 84+26.78 TO STA. 84+64.28 LT.	1
STA. 85+90.76 TO STA. 86+28.26 LT.	1
STA. 10+46.53 TO STA. 10+83.98 LT.	1
TOTAL	4

GUARDRAIL AGGREGATE EROSION CONTROL

LOCATION	TON
STA. 84+26.78, 16.13' LT. TO STA. 84+95.53, 16.00' LT.	11.7
STA. 84+74.31, 16.76' RT. TO STA. 85+04.07, 16.80' RT.	5.1
STA. 85+59.51, 16.00' LT. TO STA. 86+40.76, 15.86' LT.	11.7
STA. 85+68.13, 16.00' RT. TO STA. 86+36.88, 16.48' RT.	11.7
STA. 10+21.67, 24.0' LT. TO STA. 10+83.98, 5.57' LT.	12.5
TOTAL	53

WOVEN WIRE FENCE 4'

LOCATION	EACH
STA. 10+38.08, 49.5' RT. TO STA. 11+45.78, 44.6' RT.	103.8
STA. 11+45.78, 44.6' RT. TO STA. 12+00.00, 45.5' RT.	50.6
STA. 12+00.00, 45.5' RT. TO STA. 12+00.00, 29.1' RT.	16.4
TOTAL	171

TRAFFIC CONTROL AND PROTECTION

LOCATION	L SUM
JOBSITE	1.0
TOTAL	1.0

PAINT PAVEMENT MARKING

LOCATION - SIDEROAD	LINE - 4" (FOOT)	LINE - 6" (FOOT)
STA. 83+50.00 TO STA. 85+00.00	300	37.5
STA. 85+00.00 TO STA. 85+64.00 (BRIDGE OMISSION)		
STA. 85+64.00 TO STA. 87+30.00	332	41.5
TOTAL	632	79

PERMANENT SURVEY MARKERS, TYPE 1

LOCATION	EACH
BRIDGE - TO BE DETERMINED	1.0
TOTAL	1.0

CONVERSIONS:

AGGREGATE	2.05 TON/CU YD
BITUMINOUS MATERIAL	112 LBS/SQ YD/IN

APPLICATION RATES:

RATES OF APPLICATION (FOR INFORMATION ONLY)

BITUMINOUS MATERIALS (PRIME COAT)

EXISTING SURFACE	0.05 GAL/SQ YD
AGGREGATE SURFACE	0.30 GAL/SQ YD
AGGREGATE (PRIME COAT)	4 LBS/SQ YD
NITROGEN FERTILIZER NUTRIENT	90 LBS/ACRE
PHOSPHORUS FERTILIZER NUTRIENT	90 LBS/ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LBS/ACRE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULES

SCALE: VERT. HORIZ.

DATE

DRAWN BY

CHECKED BY

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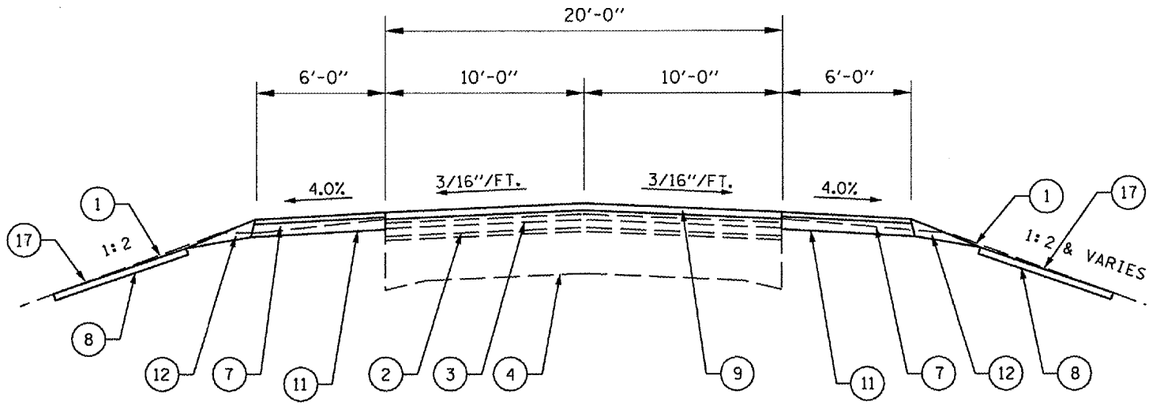
Prepared by: Foth Infrastructure & Environment, LLC

FINAL SUBMITTAL 02/01/08 FVD # 5589.80

CONTRACT NO. 68115

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	(107B)BR	STARK	39	5
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

OSCEOLA ROAD
BUTT JOINT - CASE 2 (DISTRICT STD 406101-D4)
STA. 83+50 TO STA. 83+80
AND
STA. 87+00 TO STA. 87+30



OSCEOLA ROAD
TYPICAL 1
STA. 83+50 TO STA. 84+10

SIMILAR EXCEPT WITHOUT
ASPHALT SHOULDERS
STA. 87+00 TO 87+30

OSCEOLA ROAD
TYPICAL 2
STA. 84+10 TO STA. 84+99.81

STA. 84+41 -
STA. 86+98

BEGINS ON LOCAL ROAD -
STA. 85+04.10

BRIDGE OMMISSION
STA. 84+99.81 TO 85+63.81

LEGEND

1. EX GROUND LINE
2. EX BITUMINOUS SURFACE 2"
3. EX BITUMINOUS RESURFACING 2 1/2"
4. EX PCC PAVEMENT
5. EX PCC GUTTER (TO BE REMOVED)
6. EX GUARDRAIL (TO BE REMOVED)
7. EX AGG WEDGE
8. PROP. TOPSOIL 4"
9. PROP. HOT-MIX ASPHALT SURF CSE, MIX D, N50, 1 1/2"
10. PROP. HOT-MIX ASPHALT SURF CSE, MIX D, N50, 1 1/2" & VARIES (202 LB/SQ YD)
11. PROP. HOT-MIX ASPHALT SHOULDER, 8" SEE NOTE 1.
12. AGGREGATE SHOULDER WEDGE, (TYPE B)
13. PROP. GUARDRAIL EROSION CONTROL WITHOUT EROSION CONTROL CURB (DISTRICT STD. 630101-D4)
14. PROP. STEEL PLATE BEAM GUARD RAIL, TYPE A
17. PROP. EROSION CONTROL BLANKET

NOTE 1. THE FINAL 1 1/2" LIFT OF THE ASPHALT SHOULDER SHALL BE PLACED CONCURRENTLY WITH THE MAINLINE SURFACE.

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SHEET 1 OF 2

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

OSCEOLA ROAD
TYPICAL SECTIONS

SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

CONTRACT NO. 68115

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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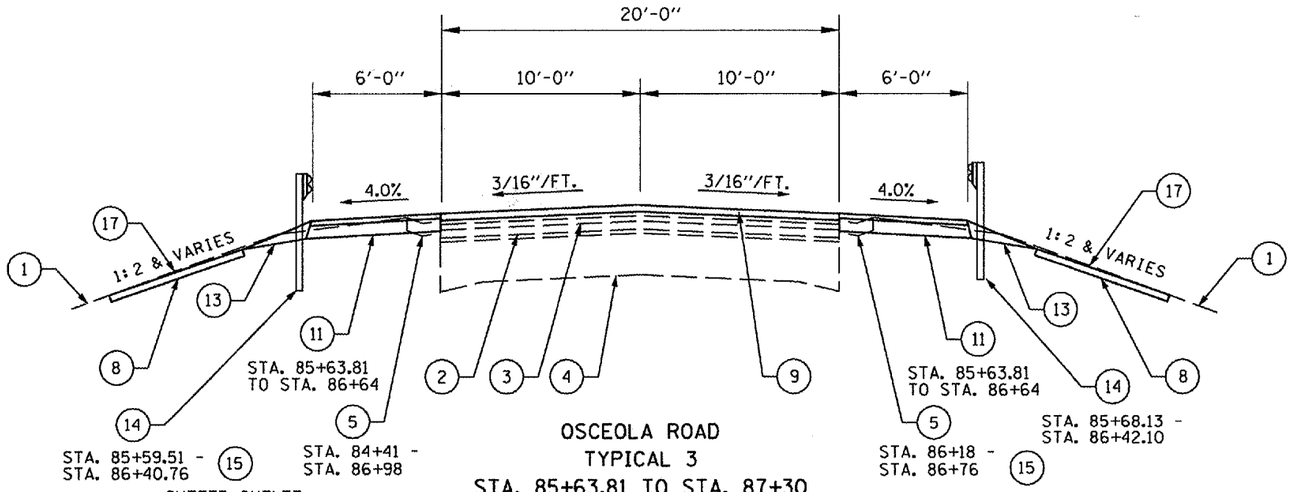
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



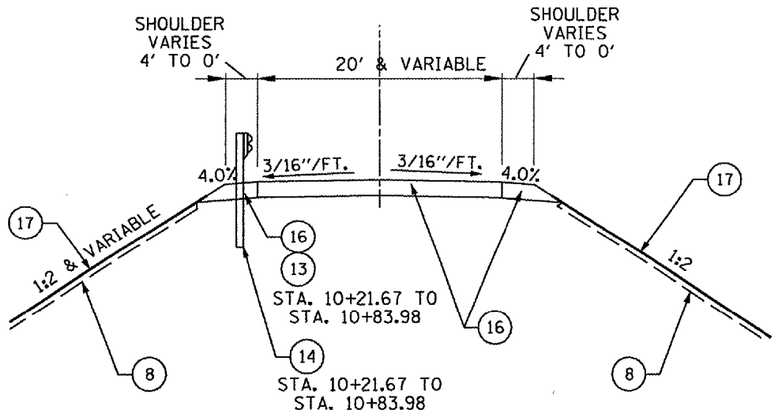
OSCEOLA ROAD
TYPICAL 3
STA. 85+63.81 TO STA. 87+30

GUTTER OUTLET
STA. 86+64 LT. TO STA. 86+88 LT.
GUTTER INLET
STA. 86+88 LT. TO STA. 87+00 LT.

AGGREGATE SHOULDER WEDGE
STA. 86+28 LT. TO STA. 86+86 LT. &
STA. 87+00 LT. TO STA. 87+30 LT.

GUTTER OUTLET
STA. 86+64 RT. TO STA. 86+88 RT.
GUTTER INLET
STA. 86+88 RT. TO STA. 87+00 RT.

AGGREGATE SHOULDER WEDGE
STA. 86+37 RT. TO STA. 86+64 RT. &
STA. 87+00 LT. TO STA. 87+30 RT.



TOWNSHIP ROAD 1500 N
(CLASS IV, ADT < 400)
STA. 10+35.70 TO STA. 12+00

LEGEND

1. EX GROUND LINE
2. EX BITUMINOUS SURFACE 2"
3. EX BITUMINOUS RESURFACING 2 1/2"
4. EX PCC PAVEMENT
5. EX PCC GUTTER (TO BE REMOVED)
6. EX GUARDRAIL (TO BE REMOVED)
7. EX AGG WEDGE
8. PROP. TOPSOIL 4"
9. PROP. HOT-MIX ASPHALT SURF CSE, MIX D, N50, 1 1/2"
10. PROP. HOT-MIX ASPHALT SURF CSE, MIX D, N50, 1 1/2" & VARIES (112 LB/SQ YD)
11. PROP. HOT-MIX ASPHALT SHOULDER, 8" SEE NOTE 1.
12. AGGREGATE SHOULDER WEDGE, (TYPE B)
13. PROP. GUARDRAIL EROSION CONTROL WITHOUT EROSION CONTROL CURB (DISTRICT STD. 630101-D4)
14. PROP. STEEL PLATE BEAM GUARD RAIL, TYPE A
15. PROP. TYPE B GUTTER INLET & TYPE B GUTTER OUTLET
16. PROP. AGGREGATE SURFACE COURSE, TYPE B 8"
17. PROP. EROSION CONTROL BLANKET

NOTE 1. THE FINAL 1 1/2" LIFT OF THE ASPHALT SHOULDER SHALL BE PLACED CONCURRENTLY WITH THE MAINLINE SURFACE.

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SHEET 2 OF 2

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

OSCEOLA ROAD
TYPICAL SECTIONS

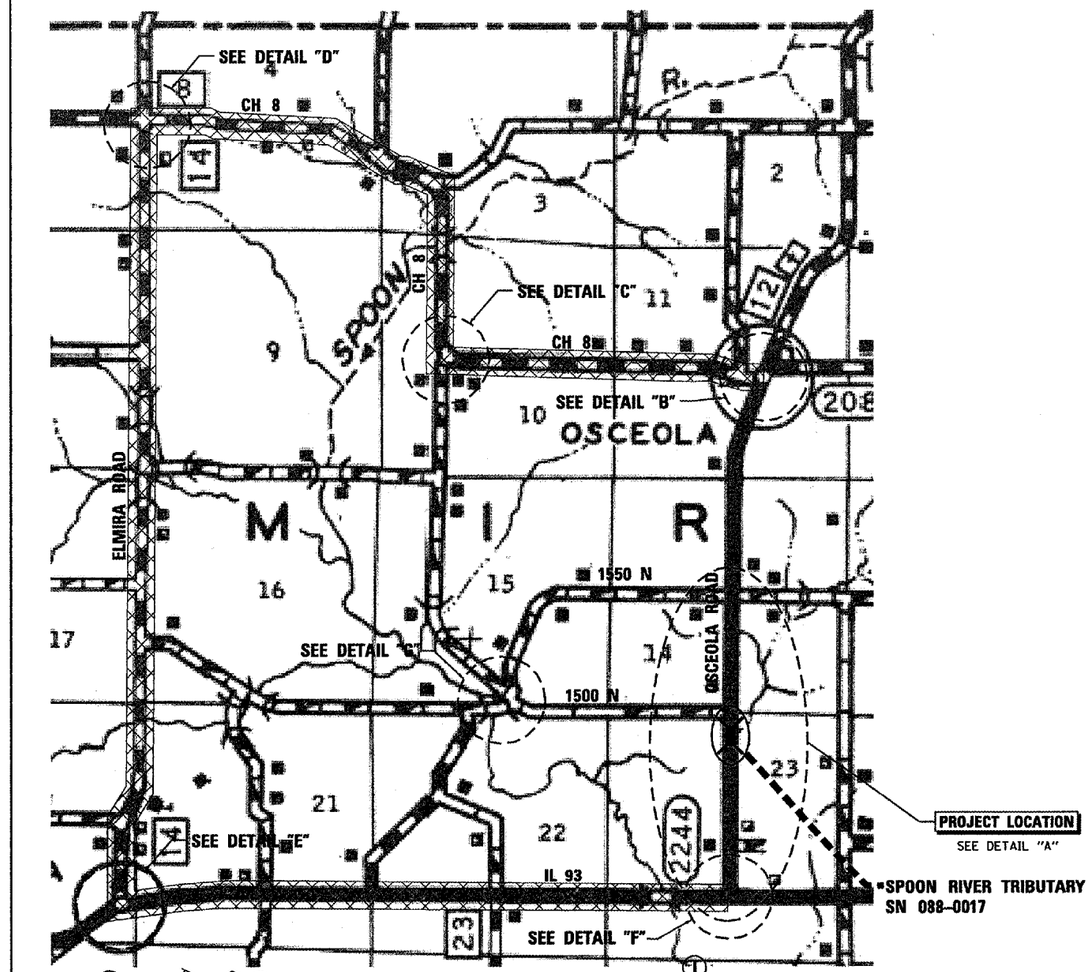
SCALE: VERT. HORIZ. DRAWN BY
DATE CHECKED BY

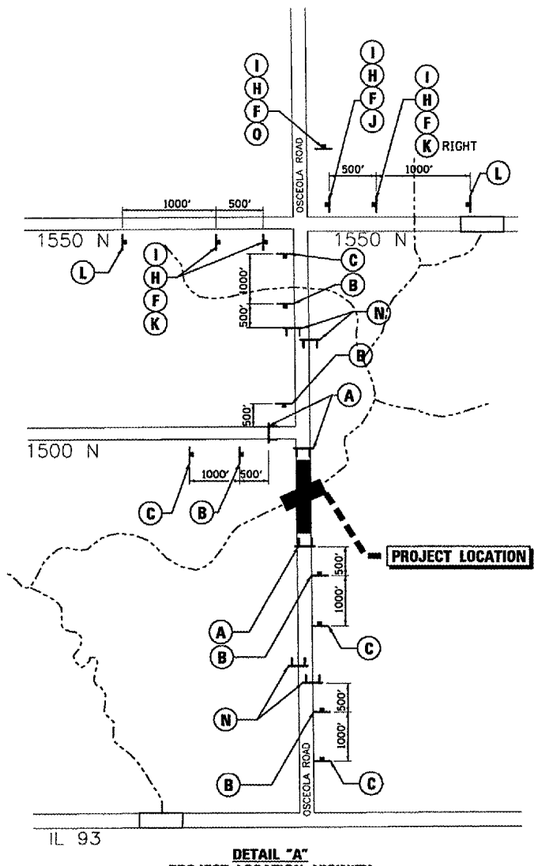
Prepared by: Foth Infrastructure & Environment, LLC

FINAL SUBMITTAL 02/01/08 FVD # 5589.80

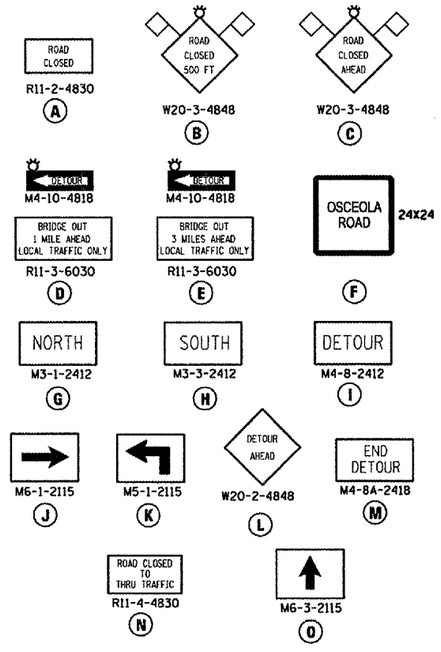
CONTRACT NO. 68115

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	(107B)BR	STARK	39	7
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





DETAIL "A"
PROJECT LOCATION VICINITY

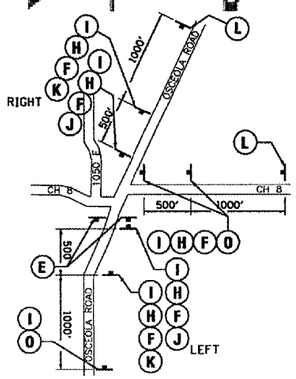


LEGEND

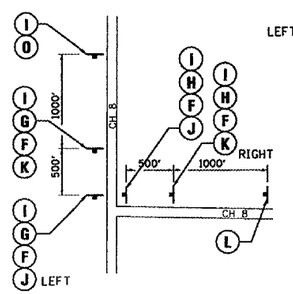
- TYPE III BARRICADES CONFORMING TO STD. 702001 "ROAD CLOSED TO ALL TRAFFIC" WITH 2 FLASHING LIGHTS PER BARRICADE
- TYPE III BARRICADES CONFORMING TO STD. 702001 "ROAD CLOSED TO THRU TRAFFIC" WITH 2 FLASHING LIGHTS PER BARRICADE
- SIGNS ON PERMANENT SUPPORTS
- FLASHING LIGHT ABOVE SIGN
- 18"x18" ORANGE FLAG
- DETOUR ROUTE

GENERAL NOTES

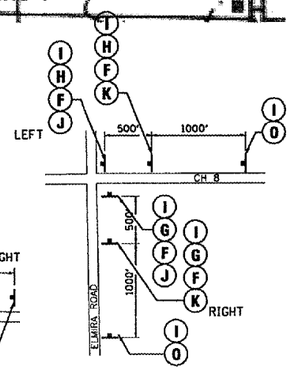
1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL SIGNS NOT ATTACHED TO BARRICADES SHALL BE POST MOUNTED, UNLESS OTHERWISE NOTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. SEE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR.



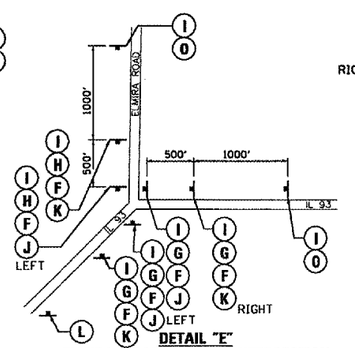
DETAIL "B"
OSCEOLA ROAD & CH 8



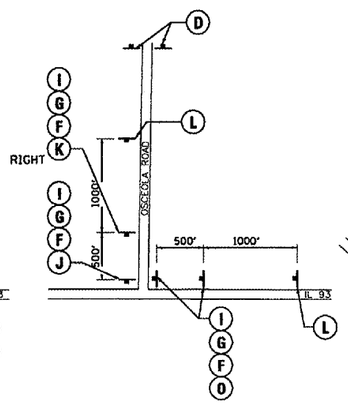
DETAIL "C"
CH 8



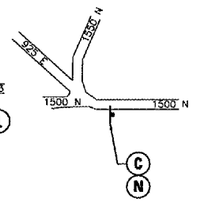
DETAIL "D"
CH 8 & ELMIRA ROAD INTERSECTION



DETAIL "E"
ELMIRA ROAD & IL 93 INTERSECTION



DETAIL "F"
IL 93 & OSCEOLA ROAD INTERSECTION



DETAIL "G"
1500 N & 925 E

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

FAS 2244, SEC (107B)BR

DETOUR PLAN

SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

PLOT TIME : 10:26:05 AM
PLOT DATE : 1/21/2008
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P.W. DIST. : FAS 2244
USER NAME : ea

Prepared by: Foth Infrastructure & Environment, LLC

FINAL SUBMITTAL 02/01/08 FVD # 5589.80

/dwg/OsceolaDetour.dgn 1/21/2008 10:27:59 AM

CONTRACT NO. 68115

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	(107B)BR	STARK	39	8
STA. 82+00	TO STA. 88+00			
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

PAVEMENT REMOVAL
EXISTING RIP RAP
PROPOSED RIP RAP

TOP OF R.O.W.
39.16'
4.5'±
29.81'
47.55'
NAIL W/ WASHER
NAIL W/ WASHER
3
#3 1/2" REBAR
500'± N. OF BRIDGE
STA. 80+27.42, 14.7287 LT.
N 1648851.92, E 2402558.178

32.44'
24.15'
"X" ON BOLT IN GUARDRAIL
NAIL W/ WASHER IN STOP SIGN
4
#4 10" SPIKE @ SIDE ROAD ENTRANCE, 50'± N. OF BRIDGE
STA. 84+72.15, 14.5477 RT.
N 1648407.155, E 2402529.475

END PROP. TYPE B GUTTER OUTLET
STA. 86+18.29, 21.88' LT.
℄ ELEV. 708.57

MAILBOX TURNOUT PER DISTRICT STANDARD 406201

EXIST. ROW

IMPROVEMENTS ENDS
STA. 87+30.00 (OSCEOLA RD.)

STA. 84+43 OSCEOLA ROAD
STA. 10+00 TWP ROAD

REMOVE EXISTING GUTTER

AGG.
BIT.
AGG.

IMPROVEMENTS BEGINS
STA. 83+50.00 (OSCEOLA RD.)

EXIST. ROW
STA. 84+39
45' RT

REMOVE EXISTING GUTTER

EXIST. ROW

PROP. ROW
STA. 84+05.18
45.00' RT

RIPRAP, SEE SHEET 14

PERM. EASEMENT
STA. 86+50
40' RT

END PROP. TYPE B GUTTER OUTLET
STA. 86+41.73, 23.65' RT.
℄ ELEV. 708.77

PERM. EASEMENT
STA. 84+91
40' RT

PERM. EASEMENT
STA. 84+91
60' RT

EMMERT J. GILLIS
S.E. 1/4 OF THE S.W. 1/4
SEC. 14, T14N, R6E, 4TH P.M.

DONALD L. BANKS, JR. ET AL
N.W. 1/4 SEC. 23,
T14N, R6E, 4TH P.M.

PERM. EASEMENT
STA. 86+30
60' RT

SCALE 1"=20'

TBM C - PK NAIL SET IN E. SIDE OF POWER POLE
43' RT. STA. 84+15, ELEV. 701.27

TBM D - CHISELED "□" ON NW CORNER OF BRIDGE
17.5' RT. STA. 85+22, ELEV.

BUTT JOINT
1 1/2" BITUMINOUS OVERLAY
1 1/2" & VARIABLE BITUMINOUS OVERLAY
BRIDGE OMISSION
1 1/2" BITUMINOUS OVERLAY
BUTT JOINT

EXISTING PROFILE GRADE
PROPOSED PROFILE GRADE
ex = 0.69
K = 46
160.00' V.C.
-1.35%
+1.90%
VPI STA. 84+90.00
ELEVATION 707.26
ELEV. +702.23
ELEV. +702.81
O.H.W. ELEV. 701.6
STREAMBED ELEV. +692.70
STONE RIPRAP, CLASS A SEE SHEET 11

720 715 710 705 700 695 690 685 680 675

714.79 714.32 713.85 713.39 712.98 712.56 712.18 711.84 711.50 711.17 710.86 710.54 710.25 709.98 709.71 709.48 709.48 709.26 708.31 709.05 709.14 708.85 708.97 708.65 708.77 708.51 708.63 708.36 708.50 708.22 708.35 708.14 708.23 708.05 708.13 707.37 708.05 707.88 707.99 707.82 707.96 707.82 707.94 707.83 707.95 707.86 707.98 707.92 708.03 707.97 708.10 708.05 708.19 708.17 708.31 708.29 708.44 708.46 708.60 708.56 708.78 708.86 708.98 709.10 709.22 709.34 709.46 709.59 709.71 709.89 710.01 710.20 710.32 710.52 710.64 710.87 710.99 711.24 711.36 711.63 711.75 712.03 712.15 712.44 712.56 712.84 712.96 713.27 713.36 713.71 713.75 714.15 714.15 714.62 715.09 715.57 716.05 716.54 717.03 717.50

82+00 82+50 83+00 83+50 84+00 84+50 85+00 85+50 86+00 86+50 87+00 87+50 88+00

DATE | BY | PLAN/PROFILE SURVEYED / DRAWN / CHECKED / QUANTITIES CHECKED / ALIGNMENT CHECKED / GRADES CHECKED / STRUCTURE NOTATIONS CHKD / NOTE BOOK / NO. / CADD FILE NAME

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USER NAME = ca1

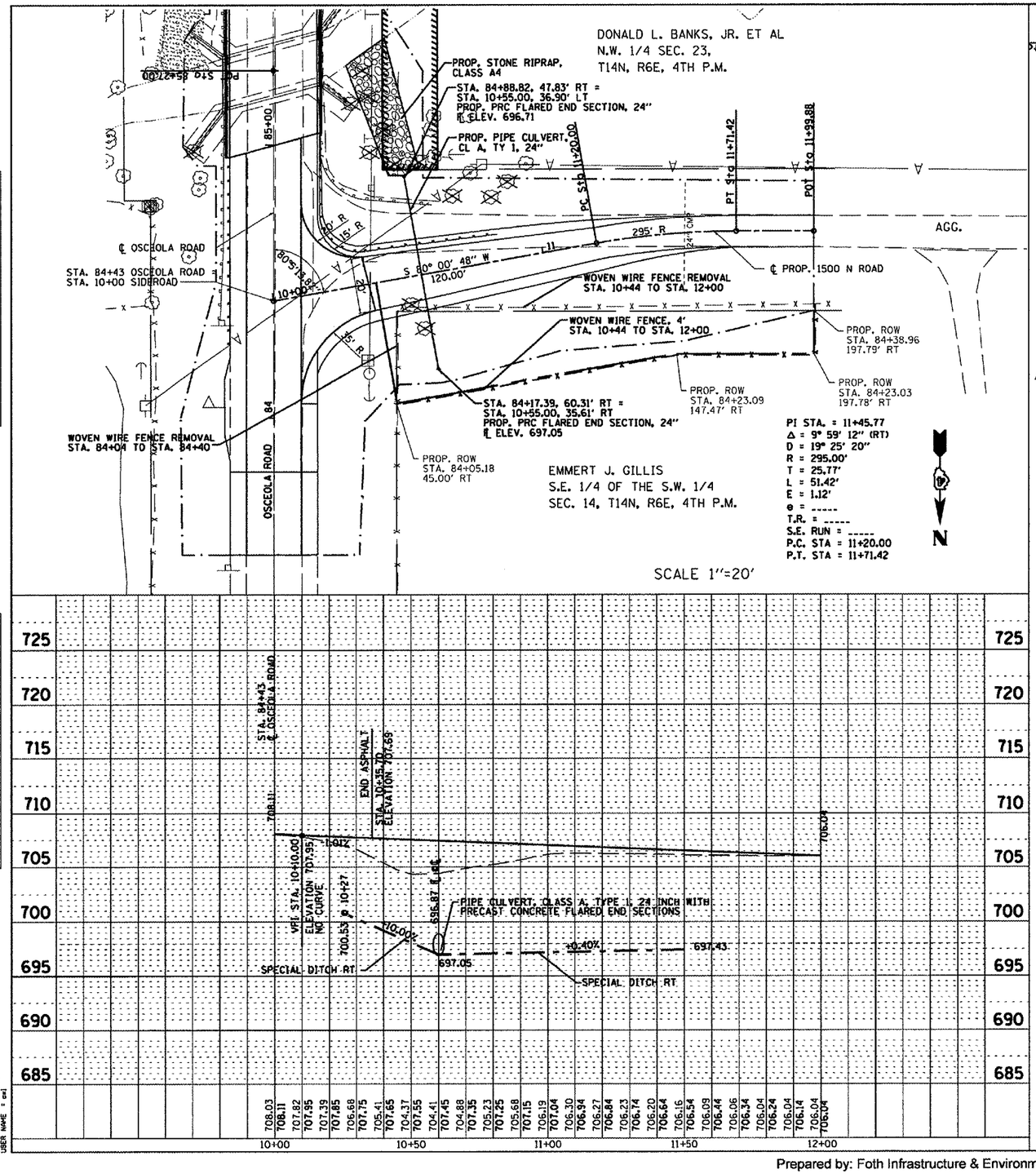
Prepared by: Foth Infrastructure & Environment, LLC

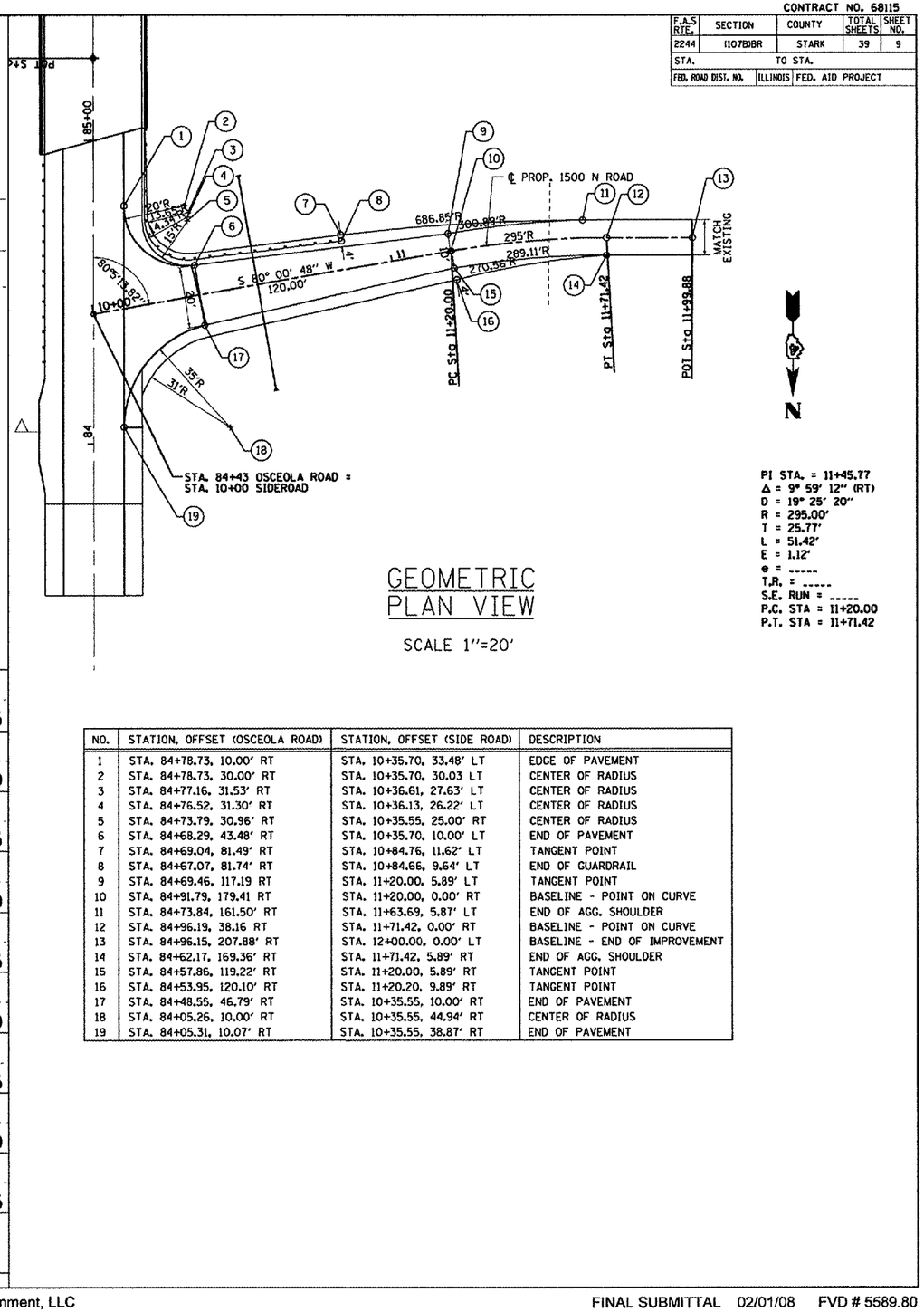
FINAL SUBMITTAL 02/01/08 FVD # 5589.80

OSCEOLA ROAD PLAN AND PROFILE

CONTRACT NO. 68115

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	(107B)BR	STARK	39	9
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





GEOMETRIC PLAN VIEW

SCALE 1"=20'

NO.	STATION, OFFSET (OSCEOLA ROAD)	STATION, OFFSET (SIDE ROAD)	DESCRIPTION
1	STA. 84+78.73, 10.00' RT	STA. 10+35.70, 33.48' LT	EDGE OF PAVEMENT
2	STA. 84+78.73, 30.00' RT	STA. 10+35.70, 30.03 LT	CENTER OF RADIUS
3	STA. 84+77.16, 31.53' RT	STA. 10+36.61, 27.63' LT	CENTER OF RADIUS
4	STA. 84+76.52, 31.30' RT	STA. 10+36.13, 26.22' LT	CENTER OF RADIUS
5	STA. 84+73.79, 30.96' RT	STA. 10+35.55, 25.00' RT	CENTER OF RADIUS
6	STA. 84+68.29, 43.48' RT	STA. 10+35.70, 10.00' LT	END OF PAVEMENT
7	STA. 84+69.04, 81.49' RT	STA. 10+84.76, 11.62' LT	TANGENT POINT
8	STA. 84+67.07, 81.74' RT	STA. 10+84.66, 9.64' LT	END OF GUARDRAIL
9	STA. 84+69.46, 117.19 RT	STA. 11+20.00, 5.89' LT	TANGENT POINT
10	STA. 84+91.79, 179.41 RT	STA. 11+20.00, 0.00' RT	BASELINE - POINT ON CURVE
11	STA. 84+73.84, 161.50' RT	STA. 11+63.69, 5.87' LT	END OF AGG. SHOULDER
12	STA. 84+96.19, 38.16 RT	STA. 11+71.42, 0.00' RT	BASELINE - POINT ON CURVE
13	STA. 84+96.15, 207.88' RT	STA. 12+00.00, 0.00' LT	BASELINE - END OF IMPROVEMENT
14	STA. 84+62.17, 169.36' RT	STA. 11+71.42, 5.89' RT	END OF AGG. SHOULDER
15	STA. 84+57.86, 119.22' RT	STA. 11+20.00, 5.89' RT	TANGENT POINT
16	STA. 84+53.95, 120.10' RT	STA. 11+20.20, 9.89' RT	TANGENT POINT
17	STA. 84+48.55, 46.79' RT	STA. 10+35.55, 10.00' RT	END OF PAVEMENT
18	STA. 84+05.26, 10.00' RT	STA. 10+35.55, 44.94' RT	CENTER OF RADIUS
19	STA. 84+05.31, 10.07' RT	STA. 10+35.55, 38.87' RT	END OF PAVEMENT

PLAN / PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, ALIGNMENT CHECKED, STRUCTURE NO(S)/STR. CHKD, NOTE BOOK, NO., BY, DATE

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USER NAME = ml

Prepared by: Foth Infrastructure & Environment, LLC

FINAL SUBMITTAL 02/01/08 FVD # 5589.80

TOWNSHIP ROAD1500N PLAN AND PROFILE

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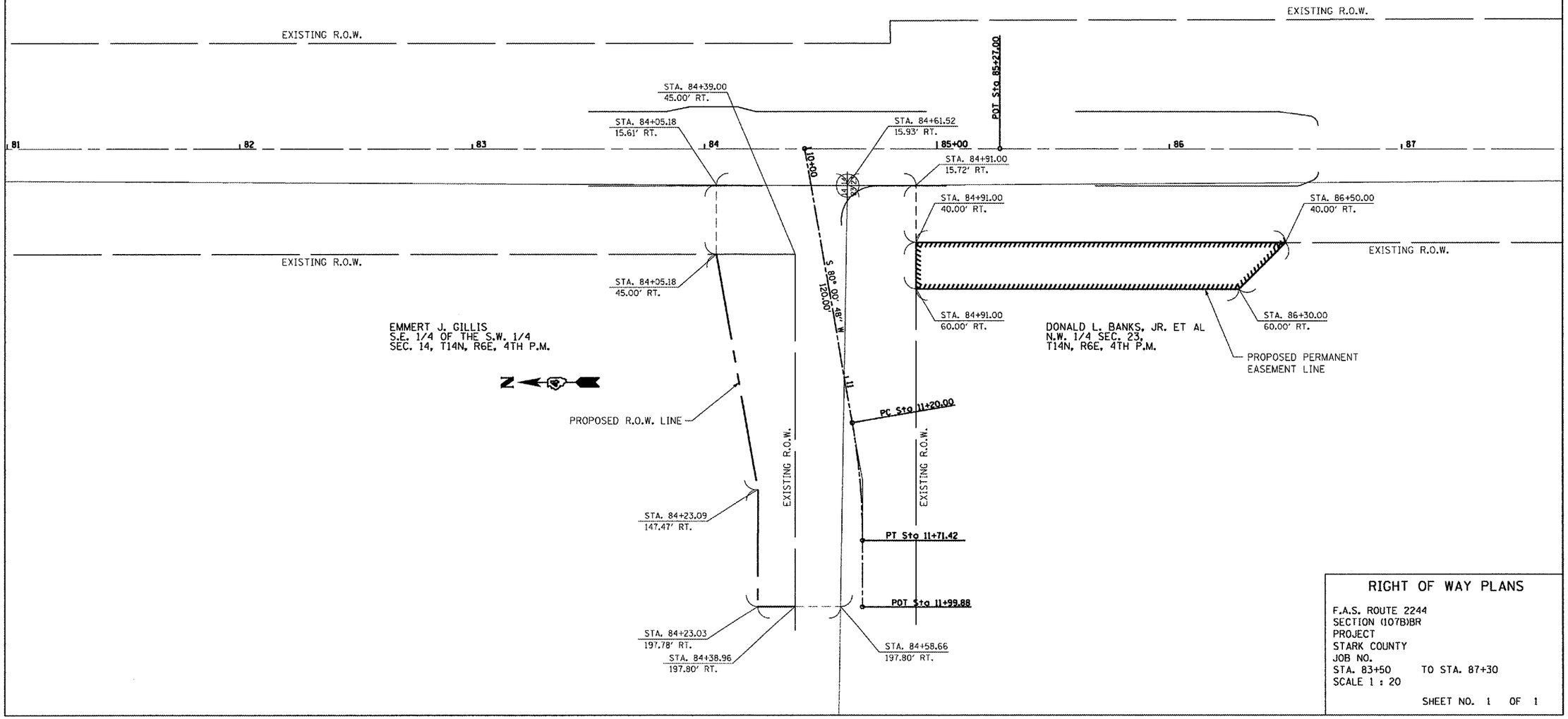
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



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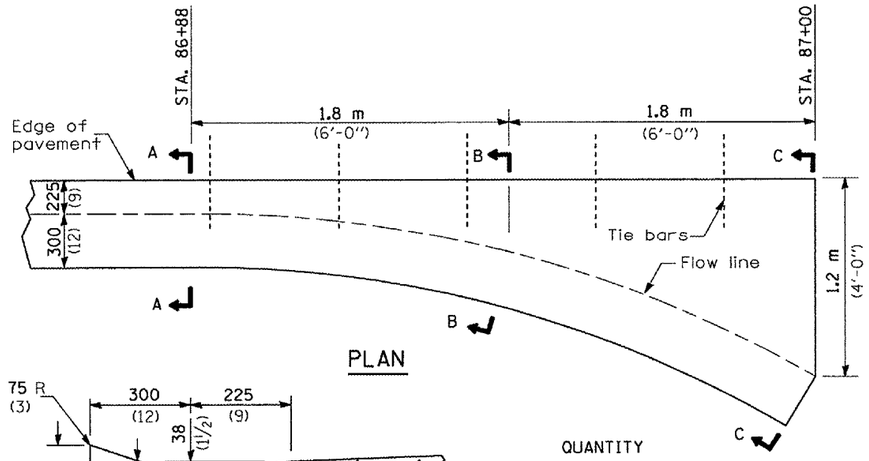
RIGHT OF WAY PLANS

F.A.S. ROUTE 2244
SECTION (107B)BR
PROJECT
STARK COUNTY
JOB NO.
STA. 83+50 TO STA. 87+30
SCALE 1 : 20

SHEET NO. 1 OF 1

CONTRACT NO. 68115

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	(107B)BR	STARK	39	11
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

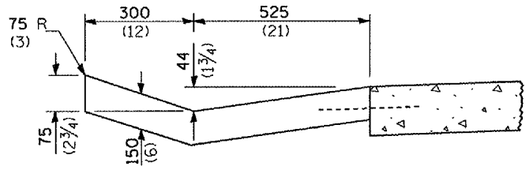


PLAN

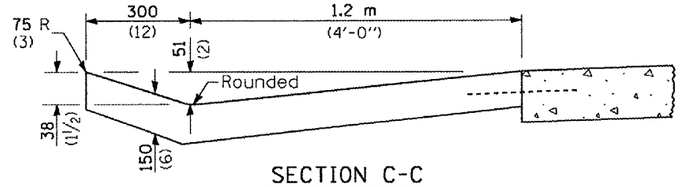
QUANTITY

Section C-C to A-A
0.49 m^3 (0.64 cu. yd.) concrete.

SECTION A-A



SECTION B-B



SECTION C-C

INLET

GENERAL NOTES

Tie bars shall be No. 19 (No. 6) at 600 mm (24") centers unless otherwise shown.

Gutter, gutter inlet, gutter outlet and gutter entrance shall be tied to the pavement in accordance with details for longitudinal construction joint shown on Standard 420001.

Two 32 mm x 450 mm (1-1/4" x 18") dowel bars shall be installed in all joints when the gutter is constructed adjacent to flexible pavement.

All dimensions are in millimeters (inches) unless otherwise shown.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPE B GUTTER
(INLET & OUTLET)

(Sheet 1 of 2)

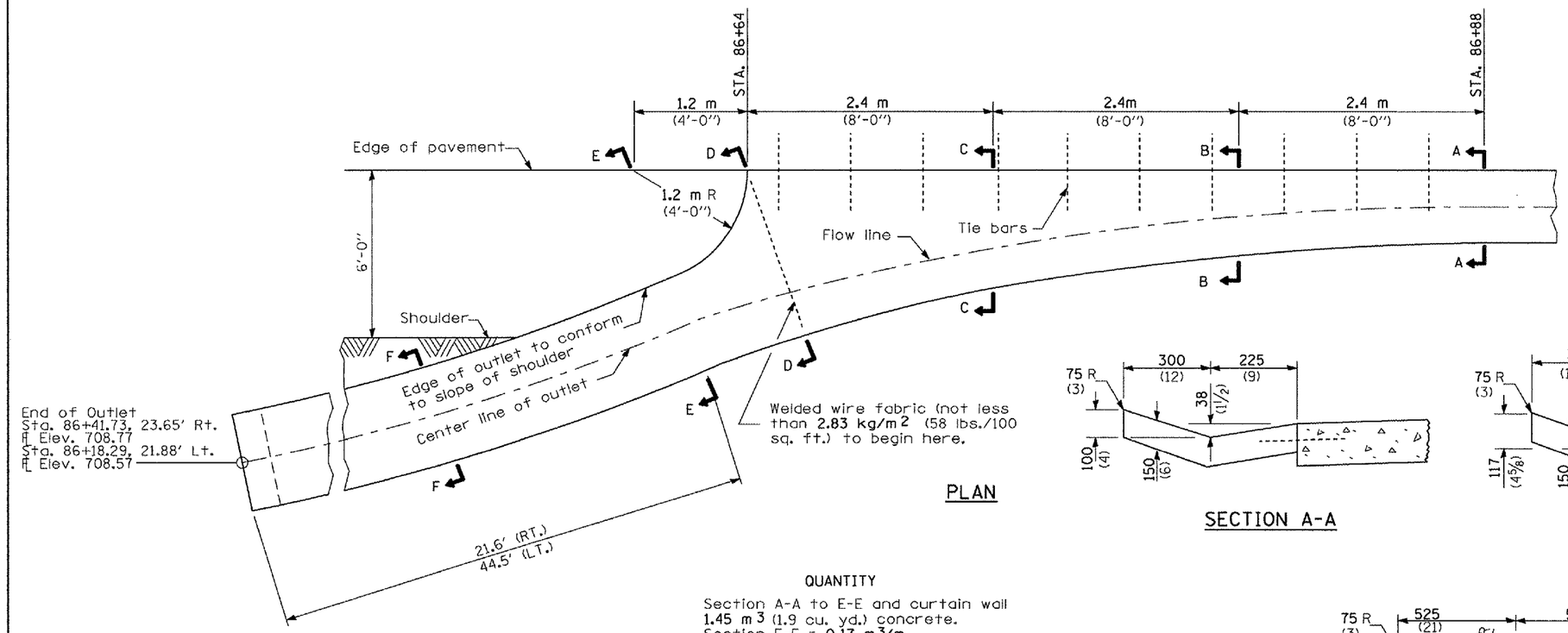
SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

MODIFIED STANDARD 606201-01

PLOT DATE = 1/21/2008
FILE NAME = D:\Idot\USER-BB\Work Order BV\Dwg\STANDARD DETAILS_MODIFIED.dgn
PLOT SCALE = 2.2000 ' / IN.
USER NAME = cis

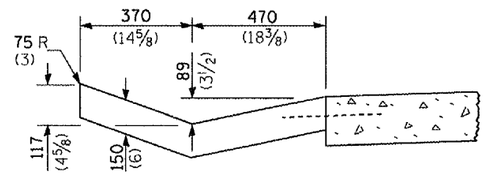
CONTRACT NO. 68115

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	(107B)BR	STARK	39	12
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN

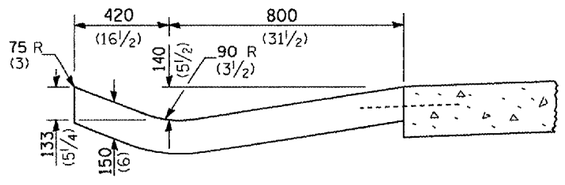
SECTION A-A



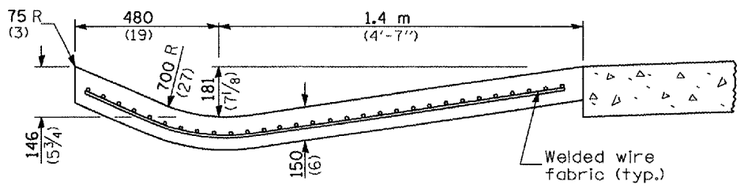
SECTION B-B

QUANTITY

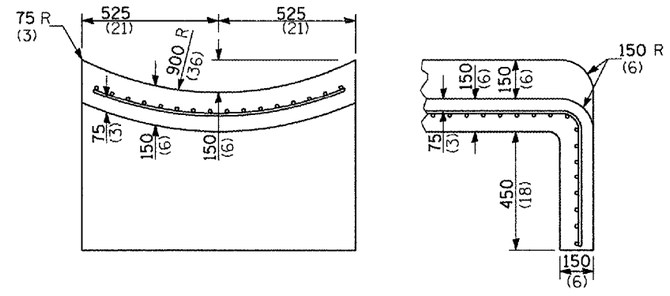
Section A-A to E-E and curtain wall
1.45 m 3 (1.9 cu. yd.) concrete.
Section F-F = 0.17 m3/m
(0.068 cu. yd./ft.).



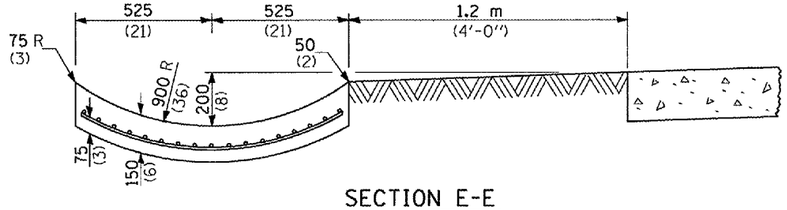
SECTION C-C



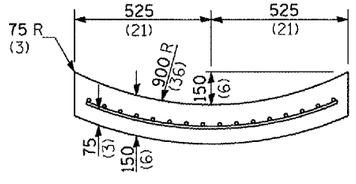
SECTION D-D



SECTIONS AT END OF OUTLET



SECTION E-E



SECTION F-F

OUTLET

All dimensions are in millimeters (inches) unless otherwise shown.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPE B GUTTER
(INLET & OUTLET)

(Sheet 2 of 2)

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

MODIFIED STANDARD 606201-01

PLOT DATE = 1/21/2008
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USER NAME = cml

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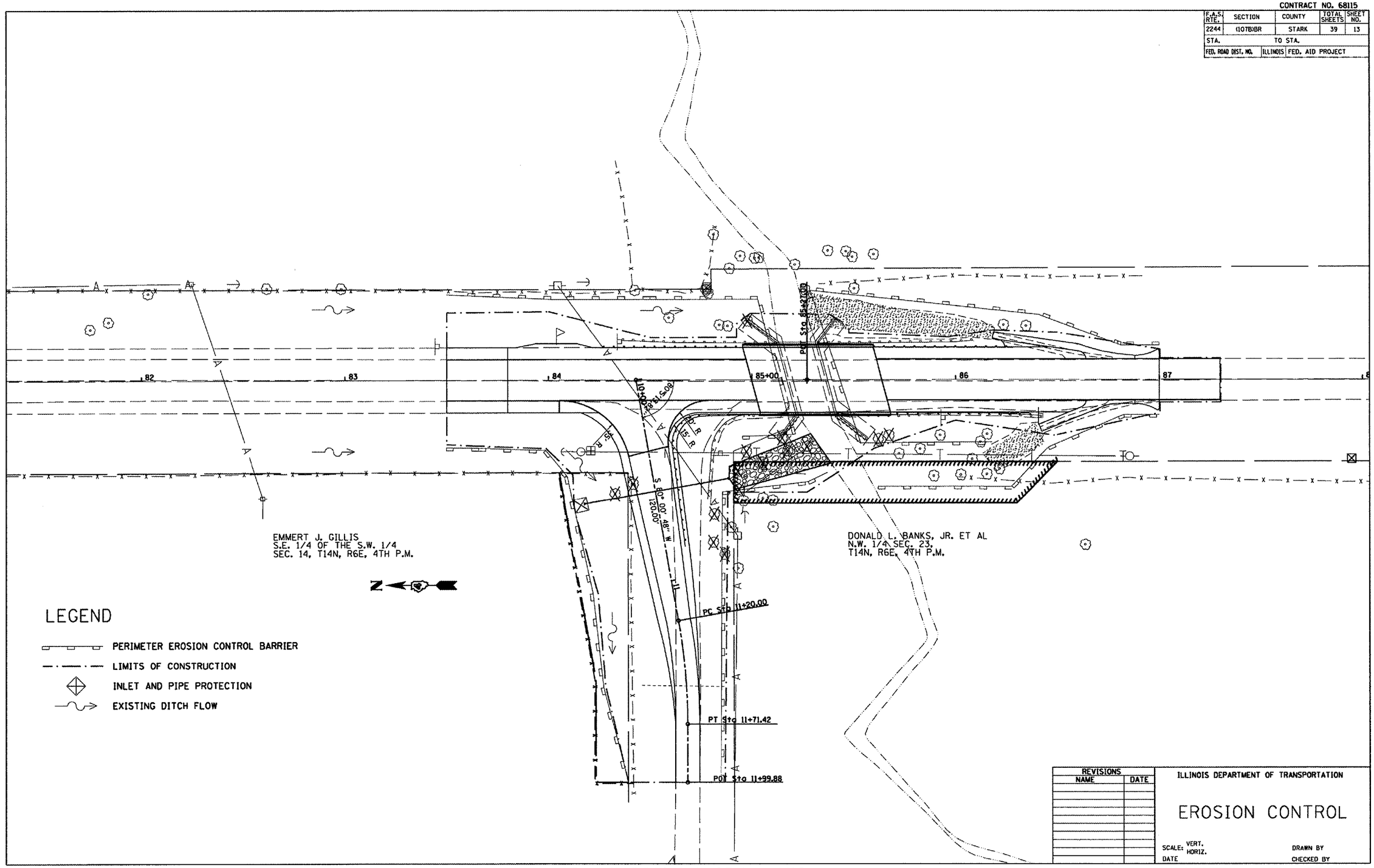
CONTRACT NO. 68115

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	(107B)BR	STARK	39	13
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

EROSION CONTROL

SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

PLOT TIME : 1:30:25 PM
PLOT DATE : 1/21/2008
FILE NAME : c:\data\JOBS\R-88\Work Order 5\Dwg\Erosion.dgn
PLOT SCALE : 40.0000 ' / IN.
USER NAME : cal

Prepared by: Foth Infrastructure & Environment, LLC

FINAL SUBMITTAL 2/1/08 FVD # 5589.80

Bench Mark: BM chiseled on the NW wingwall of S.N. 088-0017. Elevation = 707.77

Existing Structure: S.N. 088-0017 Built in 1932 as S.B.I.-93, Section 107-B at Station 85+27. The structure is a single span reinforced concrete slab bridge supported on timber pile closed abutments 20 ft. Bk. to Bk. The existing structure is to be removed and replaced. The traffic will be detoured during construction.

No salvage

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 2244	(107B) BR	STARK	39	14
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
10 SHEETS

Contract #68115

INDEX OF SHEETS

1. General Plan & Elevation
2. Superstructure
3. Superstructure Details
4.-5. 27x48 PPC Deck Beam Details
6. Steel Railing, Type SM
7. Abutments
8. Abutment Details
9. Steel H-Pile Details
10. Boring Logs

GENERAL NOTES

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

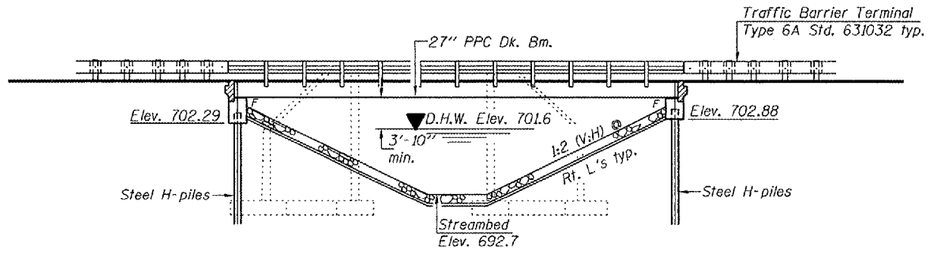
Reinforcement bars designated (E) shall be epoxy coated.

Concrete Sealer shall be applied to exterior vertical face and to outer one foot of bottom face of each fascia beam.

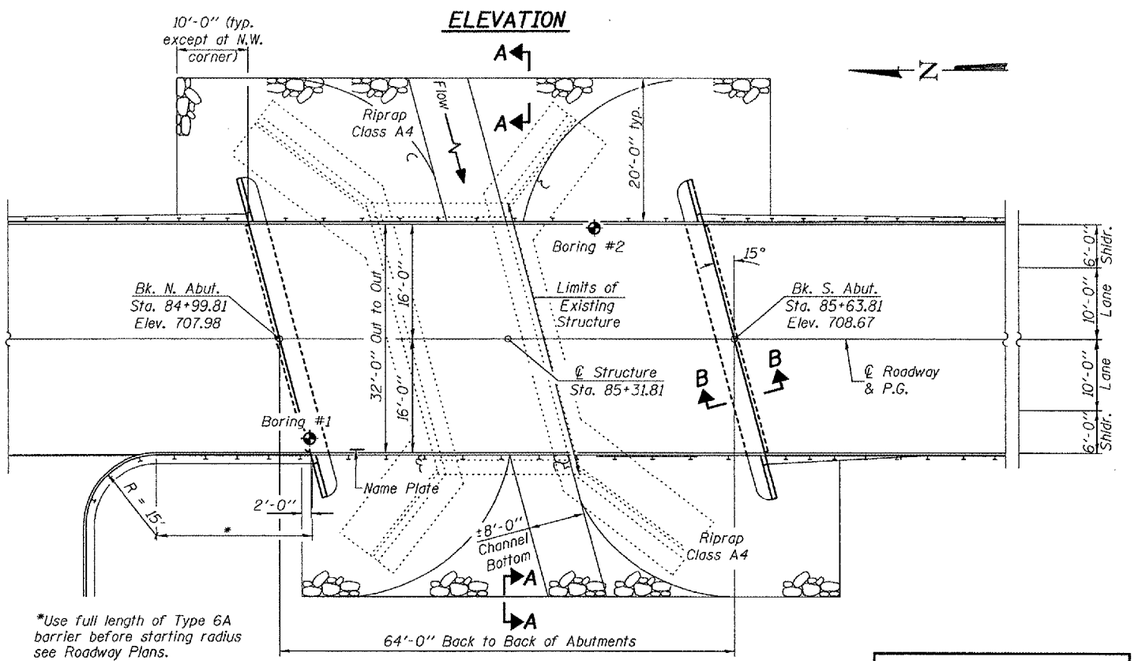
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

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.

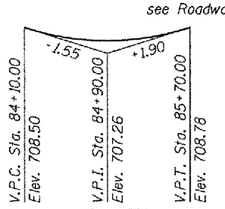
Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.



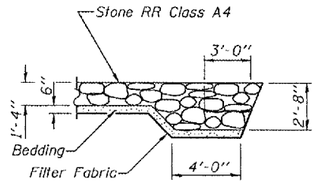
ELEVATION



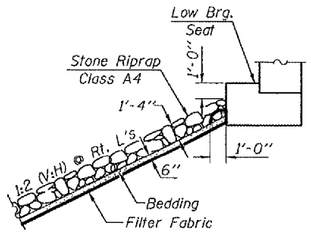
PLAN



PROFILE GRADE
(along ℄ roadway)



SECTION A-A



SECTION B-B

STATION 85+31.81
BUILT 20 BY
STATE OF ILLINOIS
F.A.S. RT. 2244 - SEC. (107B)BR
LOADING HS20
STR. NO. 088-0029

NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		617	617
Filter Fabric	Sq. Yd.		617	617
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		18.3	18.3
Driving Piles	Foot		329	329
Concrete Structures	Cu. Yd.		31.9	31.9
Bridge Deck Grooving	Sq. Yd.	213		213
Protective Coat	Sq. Yd.	228		228
Concrete Wearing Surface, 5"	Sq. Yd.	218.4		218.4
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1965		1965
Reinforcement Bars, Epoxy Coated	Pound	2780	4630	7410
Steel Railing, Type SM	Foot	126		126
Furnishing Steel Piles HP12x53	Foot		329	329
Test Pile Steel HP12x53	Each		1	1
Name Plates	Each			1
Concrete Sealer	Sq. Ft.	399		399

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

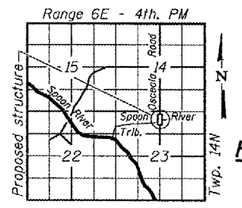
DESIGN SPECIFICATIONS
2002 AASHTO

DESIGN STRESSES

FIELD UNITS
f'_c = 5000 psi (Concrete Wearing Surface)
f'_c = 3500 psi (Substructure)
f_y = 60000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS
f'_c = 5000 psi
f'_{ci} = 4000 psi
f'_s = 270,000 psi ($\frac{1}{2}$"ϕ low lax. strands)
f_s = 189,000 psi ($\frac{1}{2}$"ϕ low lax strands)

SEISMIC DATA
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 3.8%g
Site Coefficient (S) = 1.2



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 2.33 Sq. Mi. Low Grade Elev. 707.9 @ Sta. 84+68

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	682	141	216	701.3	0.1	0.0	701.4	701.3
Design	20	839	146	229	701.6	0.2	0.0	701.8	701.6
Base	100	1302	159	262	702.3	0.8	0.0	703.1	702.3
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	1769	169	290	702.9	1.7	0.0	704.6	702.9

DESIGNED Stephen M Ryan
CHECKED David F. Bergman
DRAWN R. Sommer
CHECKED SMR/DFB/SEM

EXAMINED March 4, 2008 — ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson — ENGINEER OF BRIDGES AND STRUCTURES

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

EXPIRES 11-30-2008

GENERAL PLAN & ELEVATION
OSCEOLA ROAD OVER
SPOON RIVER TRIBUTARY
F.A.S. ROUTE 2244 - SECTION (107B)BR
STARK COUNTY
STATION 85+31.81
STRUCTURE NO. 088-0029

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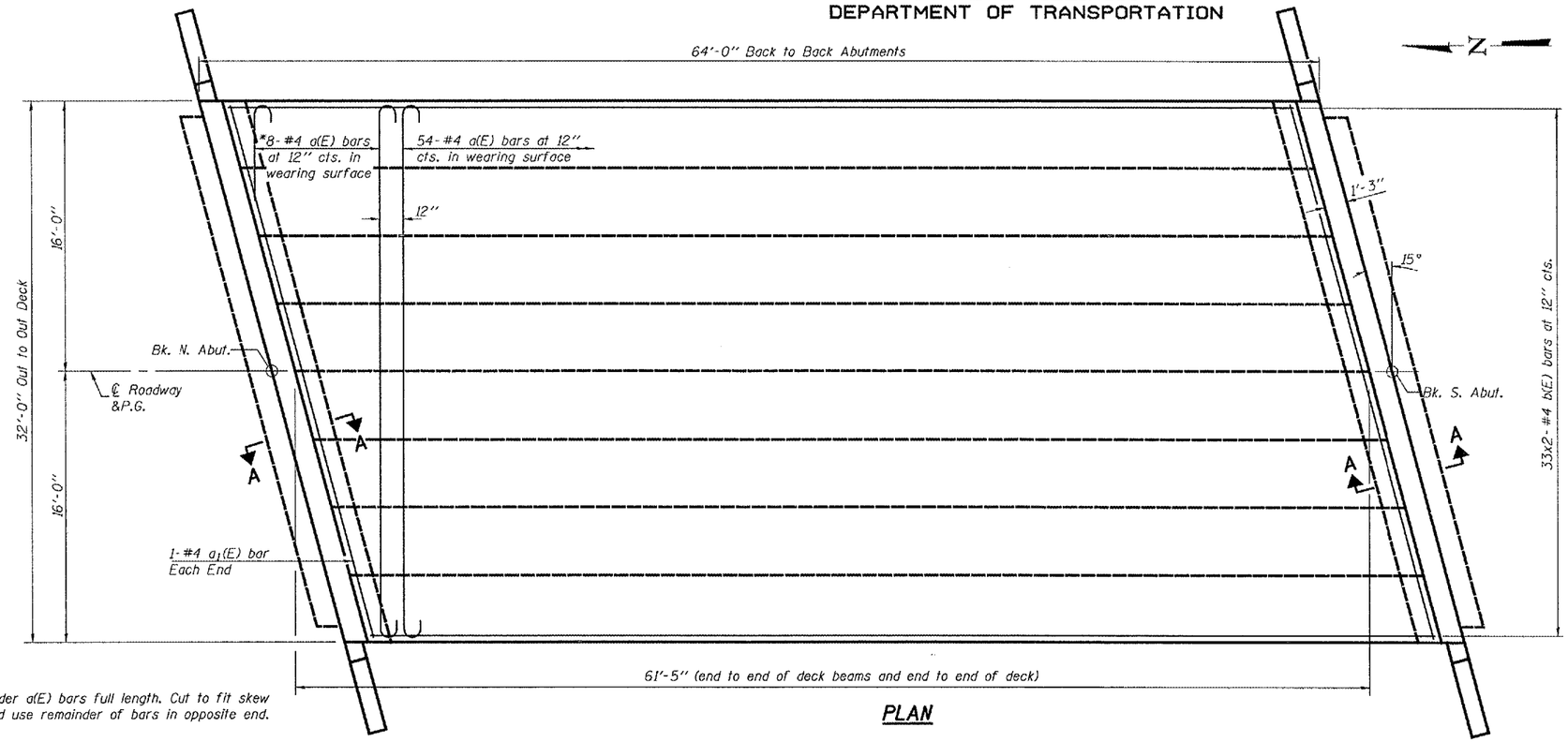
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 2244	(107B) BR	STARK	39	15
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

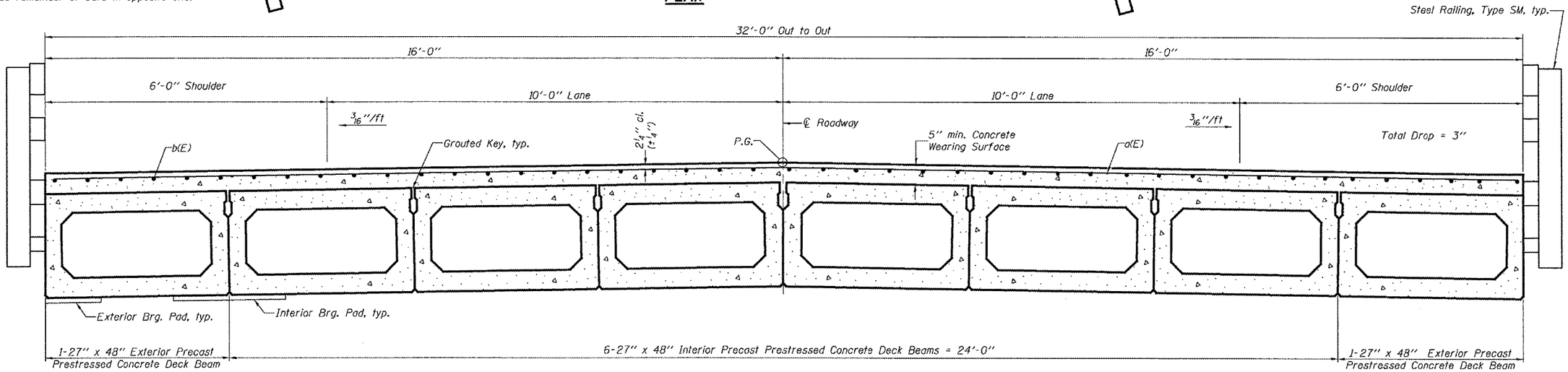
SHEET NO. 2
10 SHEETS

Contract #68115



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

PLAN



CROSS SECTION

Notes:
For Section A-A and Rail Post spacing see sheet 3 of 10.
For Beam Details, see sheets 4 and 5 of 10.
For Rail Details, see sheet 6 of 10.
Bars indicated thus 33 x 2-#4 etc. indicates 33 lines of bars with 2 lengths per line.

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

DESIGNED	Stephen M Ryan
CHECKED	Dan F Zerrusen
DRAWN	R. Sommer ØML
CHECKED	SMR/DFZ/SEM

March 4, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

SUPERSTRUCTURE
F.A.S. ROUTE 2244 - SECTION (107B)BR
STARK COUNTY
STATION 85+31.81
STRUCTURE NO. 088-0029

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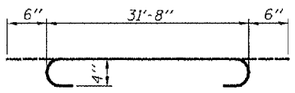
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

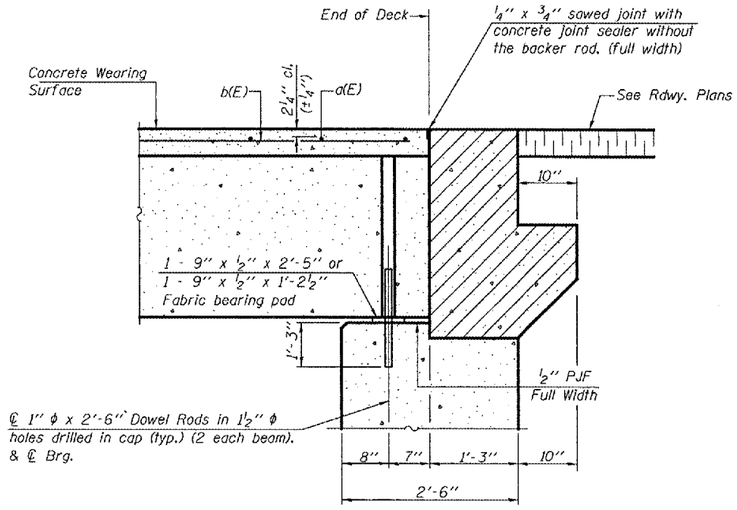
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 2244	(107B) BR	STARK	39	16
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 3
10 SHEETS

Contract #68115

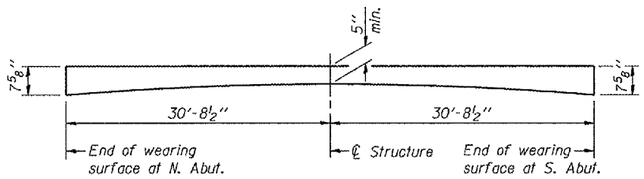


d(E) BAR

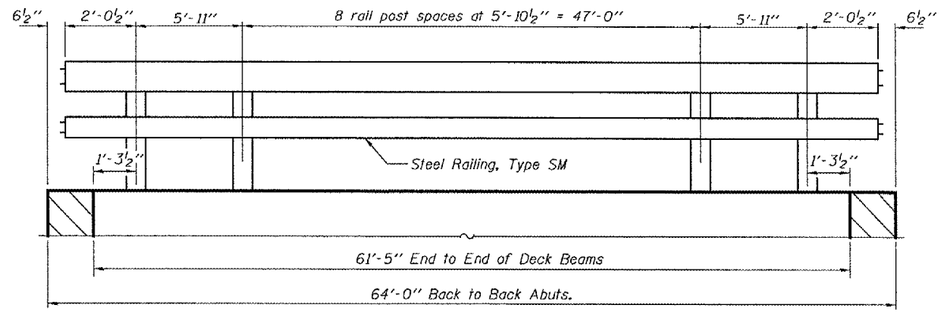


SECTION A-A
(Dimensions @ Rt. L's)

Notes:
After beams have been erected, holes shall be drilled into substructure and dowel rods placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hours prior to grouting the shear keys.
See sheet 4 of 10 for Fabric Bearing Pad details.
Concrete Wearing Surface to be poured after grouting the shear keys.
Dowel rods drilled in cap are included in the cost of Precast Prestressed Concrete Deck Beams (27" depth).
Hatched areas to be poured after concrete wearing surface is in place. Quantity included with Concrete Structures on sheet 8 of 10.



REINFORCED CONCRETE WEARING SURFACE PROFILE



*RAIL POST SPACING
See sheet 5 of 9 for bridge rail details.

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	62	#4	32'-8"	⊂⊃
a_1(E)	2	#4	32'-10"	——
b(E)	66	#4	31'-5"	——
Reinforcement Bars, Epoxy Coated			Pound	2780
Concrete Wearing Surface, 5"			Sq. Yd.	218.4

DESIGNED	Stephen M Ryan
CHECKED	Dan F Zerrusen
DRAWN	R. Sommer SML
CHECKED	SMR/DFZ/SEM

March 4, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

*The anchor device for the first rail post adjacent to each abutment is located 1/2" higher off the top face of the deck beam than the anchor devices for all other rail posts. The Contractor shall take care that the anchor devices are placed as directed on the Steel Railing, Type SM sheet, sheet 6 of 10.

SUPERSTRUCTURE DETAILS
F.A.S. ROUTE 2244 - SECTION (107B)BR
STARK COUNTY
STATION 85+31.81
STRUCTURE NO. 088-0029

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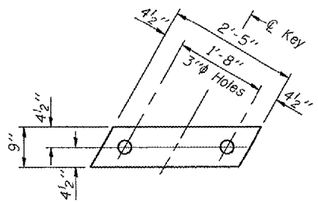
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

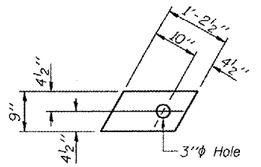
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 2244	(107B) BR	STARK	34	17
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 4
10 SHEETS

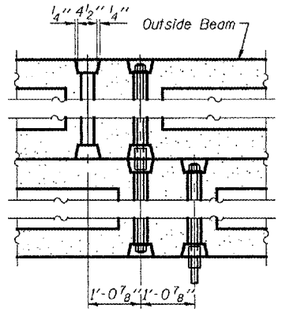
Contract #68115

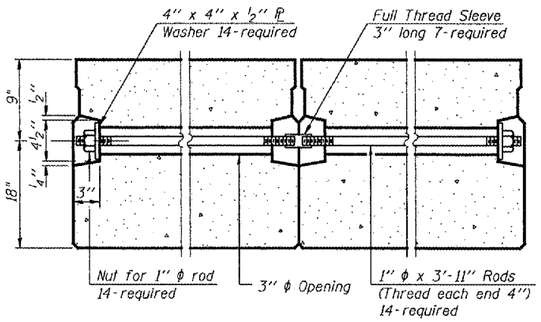


FABRIC BEARING PAD
(Interior - Fixed)

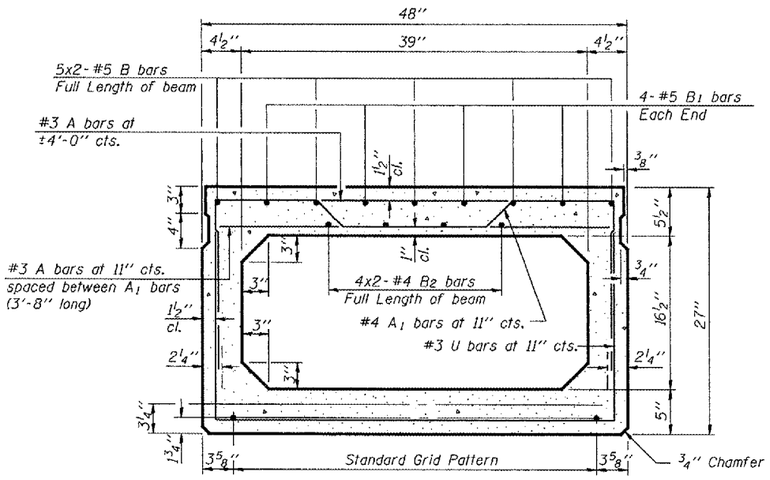


FABRIC BEARING PAD
(Exterior - Fixed)





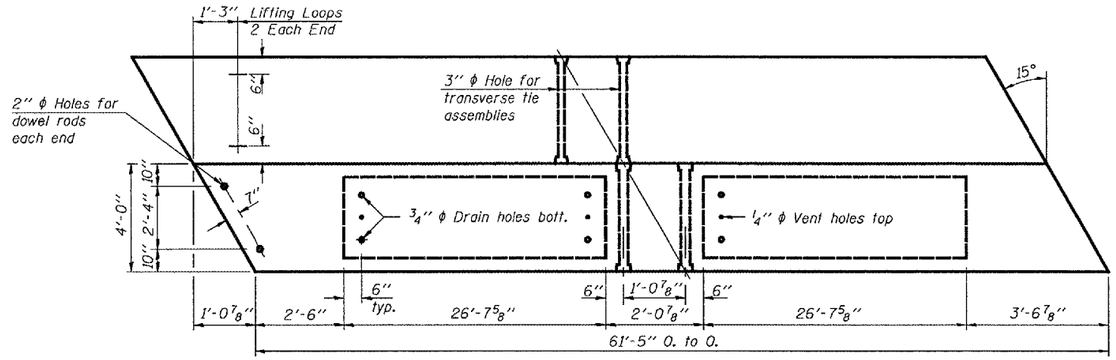
TYPICAL TRANSVERSE TIE ASSEMBLY



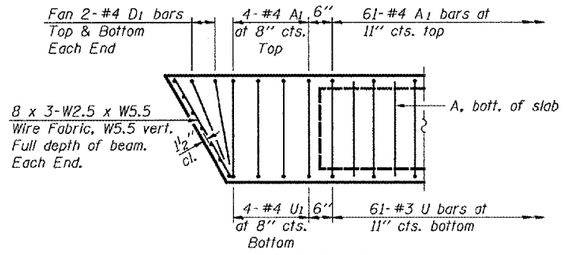
SECTION THRU INTERIOR BEAMS

½" ϕ Strands, Each Strand Stressed to 30,900 Lbs.
13-Strands 1¾" up, 4-Strands 3¼" up,
2-Strands 6" up, 2-Strands 9" up.

Note:
Place strands symmetrically about ℄ of beam.



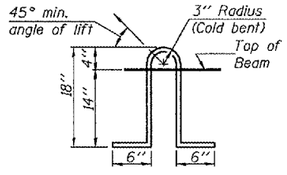
PLAN



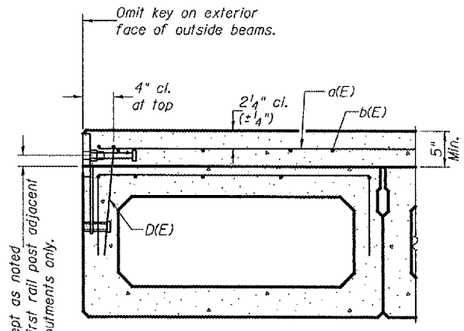
END PLAN

DESIGNED	Stephen M Ryan
CHECKED	Dan F Zerrusen
DRAWN	R. Sommer ØML
CHECKED	SMR/DFZ/SEM

March 4, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

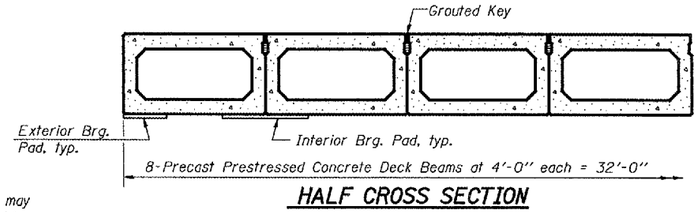


LIFTING LOOP DETAIL



SECTION THRU EXTERIOR BEAMS

Rail anchorage shall be cast with the beam and the concrete wearing surface shall be cast in the field.
See Section thru Interior Beams for dimensions, strand pattern, and bar callouts not shown.
Formwork necessary for the concrete wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam. Drilling into the beam will not be permitted.



HALF CROSS SECTION

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.
The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.
Lifting loops shall be 3 -½" ϕ-270 ksi strands, as shown.
The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.
Non prestressing steel shall conform to ASTM A 706 (IL MOD), Grade 60.
The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two ⅛" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.
Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.
Corrosion Inhibitor, per Article 1020.05(b)(12) of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
Required Release Strength, f'ci, shall be 4,000 p.s.i.
See sheet 6 of 10 for Rail Anchor details.
See sheet 3 of 10 for Rail Post Spacing.

27" x 48" PPC DECK BEAM DETAILS
F.A.S. ROUTE 2244 - SECTION (107B)BR
STARK COUNTY
STATION 85+31.81
STRUCTURE NO. 088-0029

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

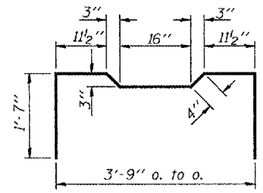
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 2244	(107B) BR	STARK	31	18
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 5
10 SHEETS

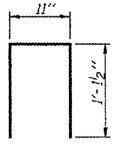
Contract #68115

MIN. BAR LAPS

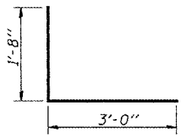
#4 bars = 2'-5"
#5 bars = 3'-0"



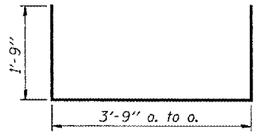
BAR A1



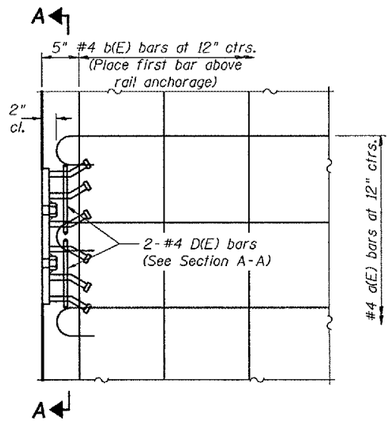
BAR D



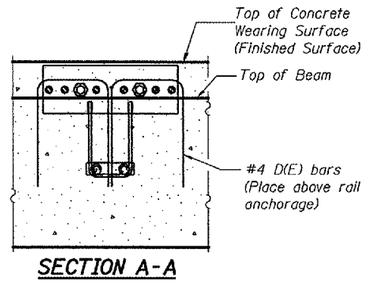
BAR D1



BARS U & U1



PARTIAL DECK PLAN AT RAIL ANCHORAGE



SECTION A-A

BAR LIST
ONE BEAM ONLY

(For Information Only)

	Bar	No.	Size	Length	Shape
	A	85	#3	3'-8"	——
	A1	69	#4	7'-2"	⊓
	B	10	#5	32'-1"	——
	B1	8	#5	12'-4"	——
	B2	8	#4	31'-10"	——
*	D	22	#4	3'-2"	⊓
	D1	8	#4	4'-8"	⌊
	U	61	#3	7'-3"	⊔
	U1	8	#4	7'-3"	⊔

*Exterior beams only

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" Depth)	Sq. Ft.	1965

DESIGNED	Stephen M Ryan
CHECKED	Dan F Zerrusen
DRAWN	R. Sommer ØML
CHECKED	SMR/DFZ/SEM

March 4, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

27" x 48" PPC DECK BEAM DETAILS
F.A.S. ROUTE 2244 - SECTION (107B)BR
STARK COUNTY
STATION 85+31.81
STRUCTURE NO. 088-0029

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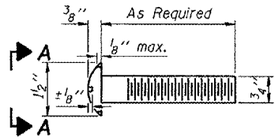
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

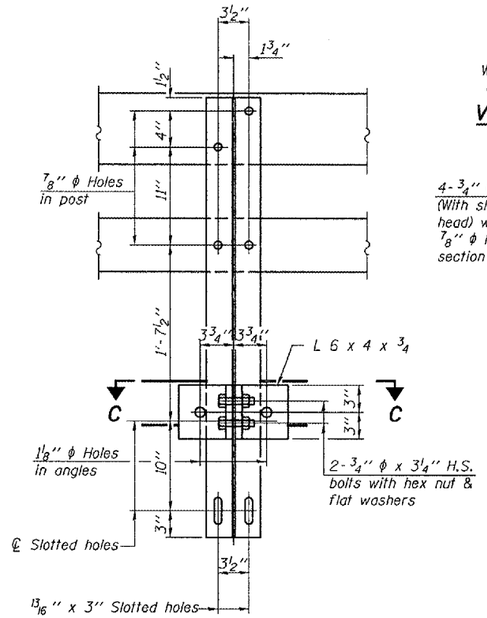
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 2244	(107B) BR	STARK	39	19
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 6
10 SHEETS

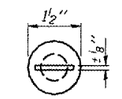
Contract #68115

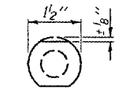
DETAIL OF $\frac{3}{4}$" ϕ ROUND HEAD BOLT



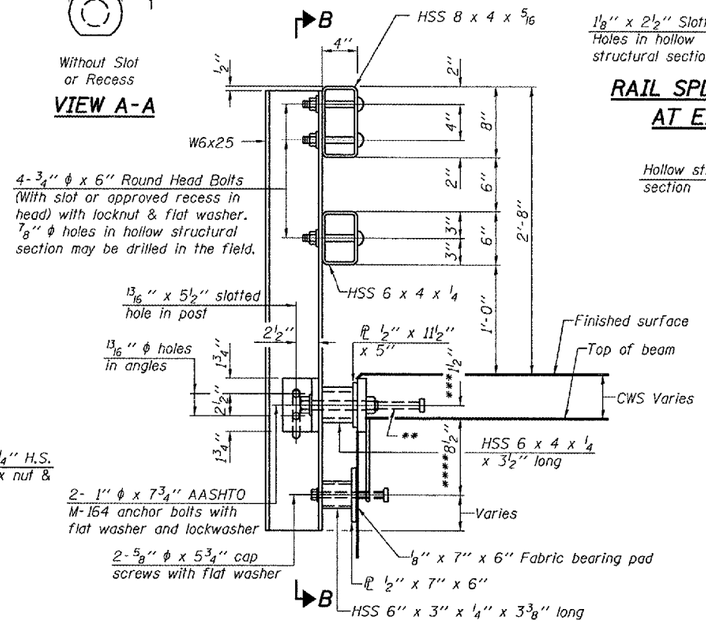


SECTION B-B



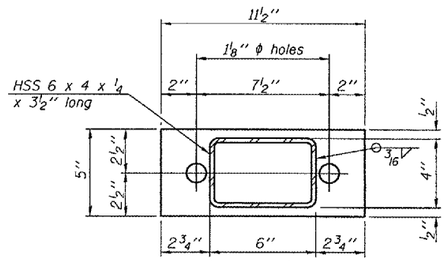


VIEW A-A

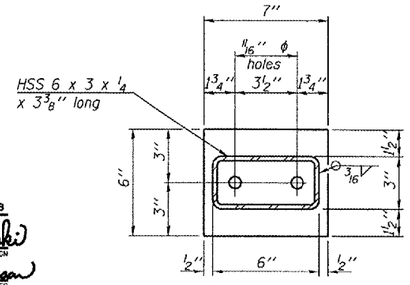


SECTION AT RAIL POST

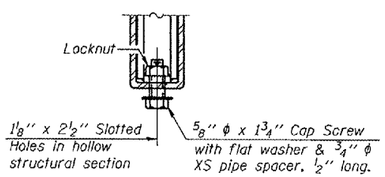
SECTION C-C



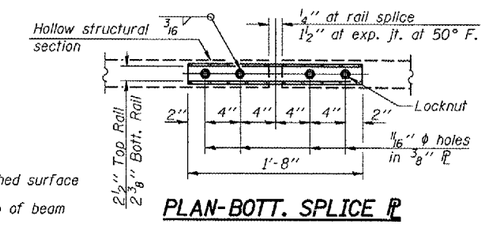
PL 1/2" x 11 1/2" x 5"



PL 1/2" x 7" x 6"

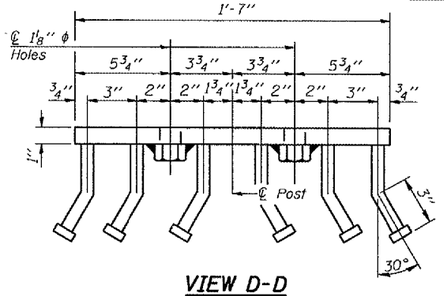


RAIL SPLICE CONNECTION AT EXPANSION JT.

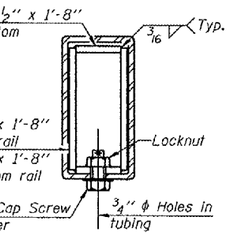


PLAN-BOTT. SPLICE PL TYPICAL

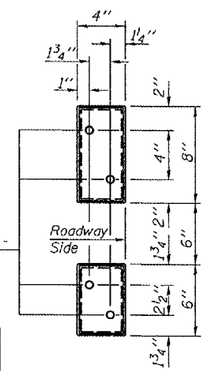
℄ 4-5/8" reduced base welded studs. Provide 4 - 3/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032



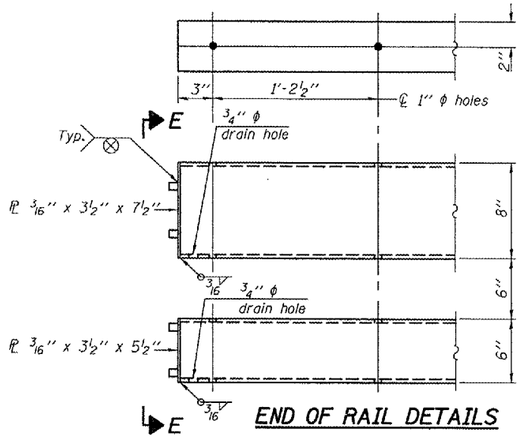
VIEW D-D



SECTION AT RAIL SPLICE



VIEW E-E

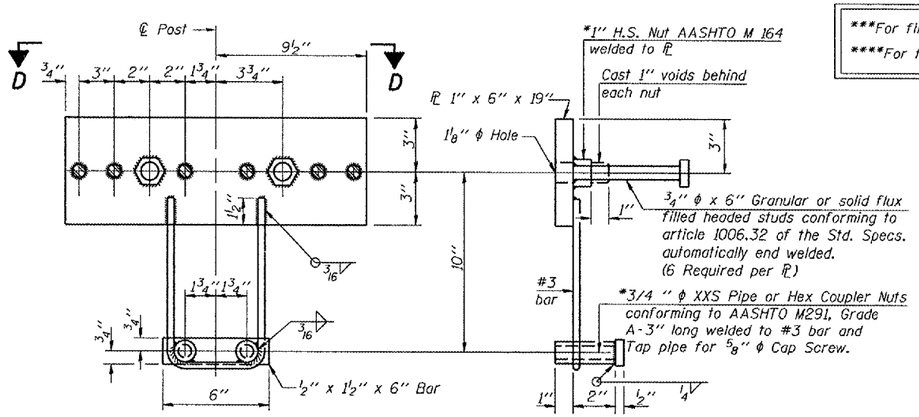


END OF RAIL DETAILS

Notes:
All field drilled holes shall be coated with an approved zinc rich paint before erection.
For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.
Steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

**The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

***For first rail post adjacent to abutments only, this dimension is 2".
****For first rail post adjacent to abutments only, this dimension is 8".



ANCHOR DEVICE

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

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	126

DESIGNED	Stephen M Ryan
CHECKED	Dan F Zerrusen
DRAWN	R. Sommer ØML
CHECKED	SMR/DFZ/SEM

March 4, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

STEEL RAILING, TYPE SM WITH CONCRETE WEARING SURFACE
F.A.S. ROUTE 2244 - SECTION (107B)BR
STARK COUNTY
STATION 85+31.81
STRUCTURE NO. 088-0029

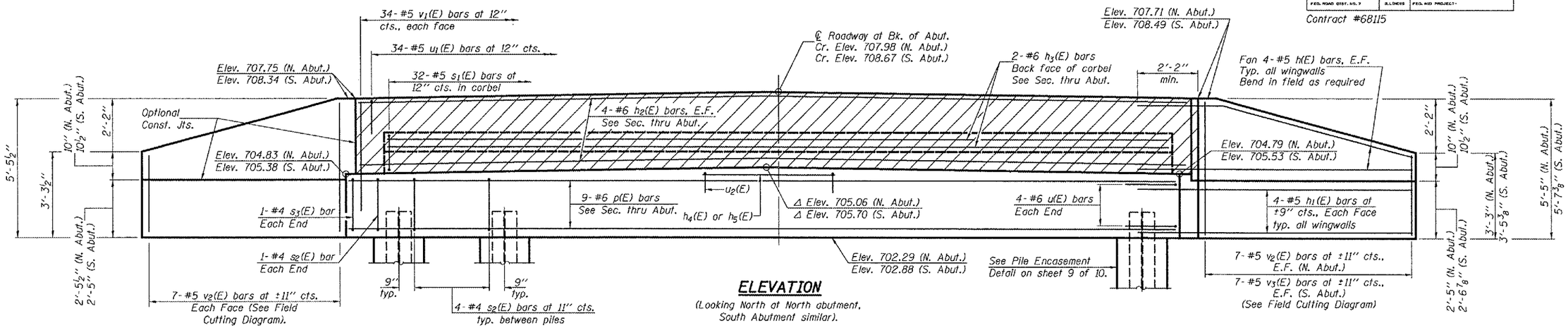
Δ Elevation at Front face of Abutment cap.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 2244	(107B) BR	STARK	37	20
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

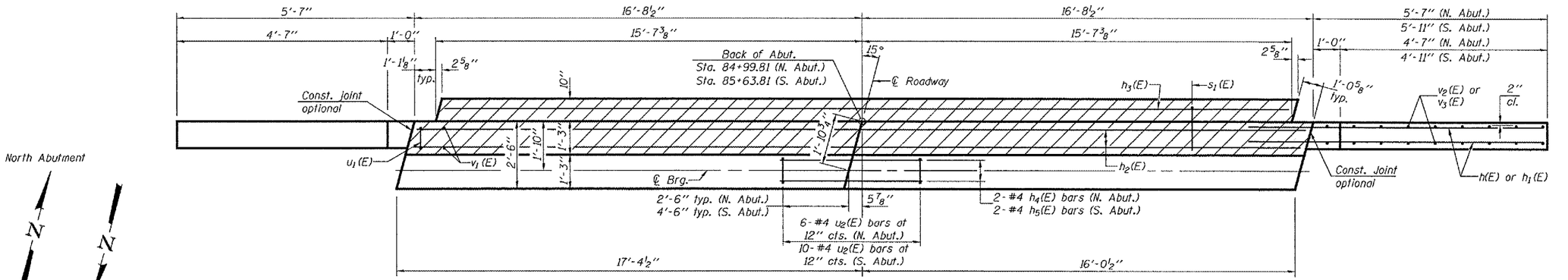
SHEET NO. 7
10 SHEETS

Contract #68115



ELEVATION

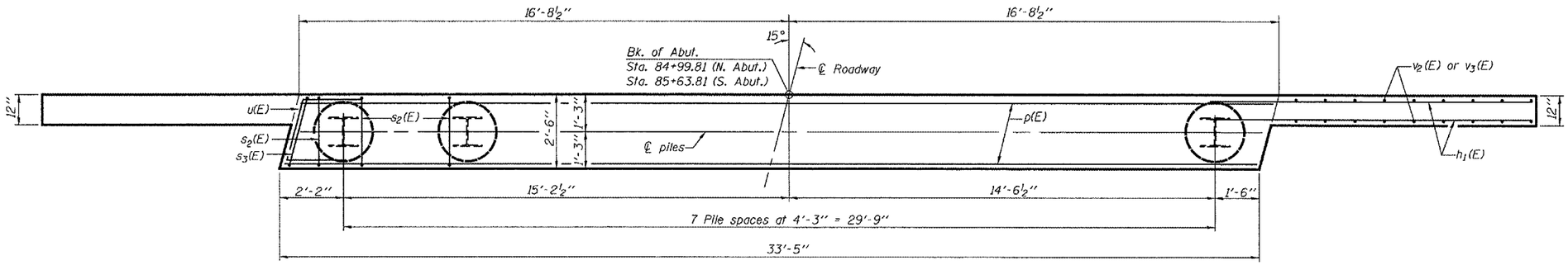
(Looking North at North abutment, South Abutment similar).



TOP VIEW

North Abutment

South Abutment



PLAN

DESIGNED	Stephen M Ryan
CHECKED	Dan F Zerrusen
DRAWN	R. Sommer ØML
CHECKED	SMR/DFZ/SEM

March 4, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

PILE DATA SOUTH ABUTMENT

Type: HP12x53
Nominal Required Bearing: 237 kips
Allowable Resistance Available: 79 kips
Est. Length: 21'
No. Production Piles: 8
No. Test Piles: 0

Notes:
Hatched area to be poured after concrete wearing surface is in place.
Quantity of concrete included with Concrete Structures on sheet 8 of 10.
Space reinforcement in cap to miss dowel rods.

PILE DATA NORTH ABUTMENT

Type: HP12x53
Nominal Required Bearing: 237 kips
Allowable Resistance Available: 79 kips
Est. Length: 23'
No. Production Piles: 7
No. Test Piles: 1

ABUTMENTS
F.A.S. ROUTE 2244 - SECTION (107B)BR
STARK COUNTY
STATION 85+31.81
STRUCTURE NO. 088-0029

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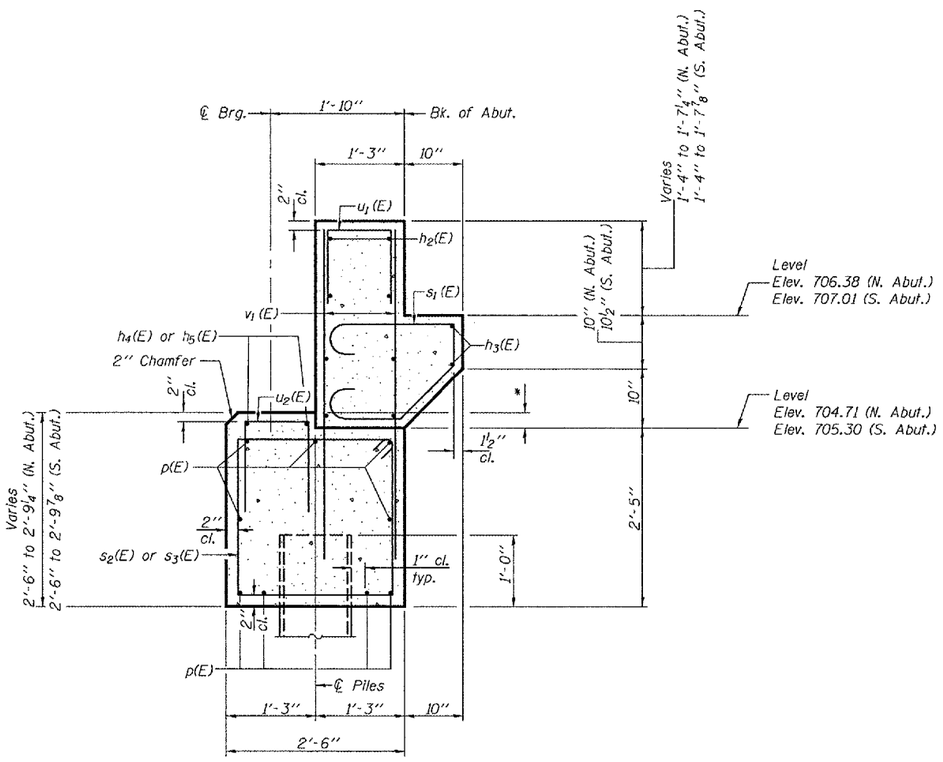
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 2244	(107B) BR	STARK	39	21
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 8
10 SHEETS

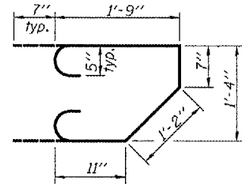
Contract #68115



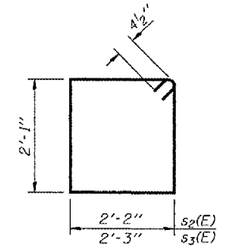
SECTION THRU ABUTMENT

(Showing dimensions at Rt. L's)
(Hatching not shown)

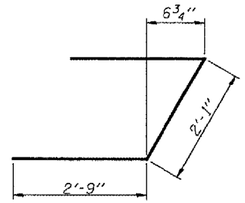
*Varies 1" to 4¼" (N. Abut.)
Varies 1" to 4⅞" (S. Abut.)



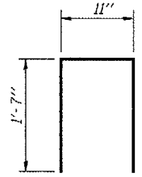
BAR s_1(E)



BARS s_2(E) & s_3(E)



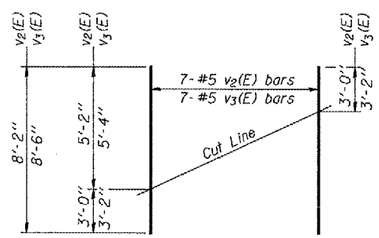
BAR u(E)



BARS u_1(E) & u_2(E)

TWO ABUTMENTS BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#5	8'-9"	
h_1(E)	32	#5	8'-5"	
h_2(E)	16	#6	33'-2"	
h_3(E)	4	#6	30'-11"	
h_4(E)	2	#4	6'-0"	
h_5(E)	2	#4	10'-0"	
p(E)	18	#6	33'-1"	
s_1(E)	64	#5	5'-7"	
s_2(E)	60	#4	9'-3"	
s_3(E)	4	#4	9'-5"	
u(E)	16	#6	7'-7"	
u_1(E)	68	#5	4'-1"	
u_2(E)	16	#4	4'-1"	
v_1(E)	136	#5	4'-6"	
v_2(E)	21	#5	8'-2"	
v_3(E)	7	#5	8'-6"	
Concrete Structures			Cu. Yd.	31.9
Reinforcement Bars, Epoxy Coated			Pound	4630
Structure Excavation			Cu. Yd.	18.3



FIELD CUTTING DIAGRAM

Order v_2(E) and v_3(E) full length. Cut as shown and use remainder of bars in opposite face.

ABUTMENT DETAILS
F.A.S. ROUTE 2244 - SECTION (107B)BR
STARK COUNTY
STATION 85+31.81
STRUCTURE NO. 088-0029

DESIGNED	Stephen M Ryan
CHECKED	Dan F Zerrusen
DRAWN	R. Sommer BML
CHECKED	SMR/DFZ/SEM

March 4, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

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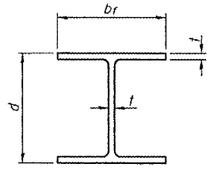
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 2244	(107B) BR	STARK	31	22
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

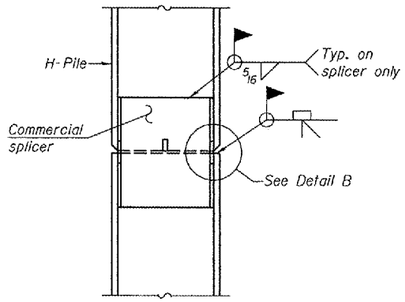
SHEET NO. 9
10 SHEETS

Contract #68115

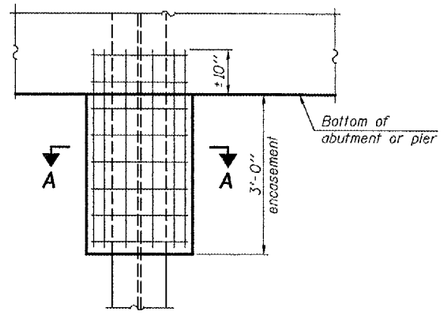


STEEL PILE TABLE

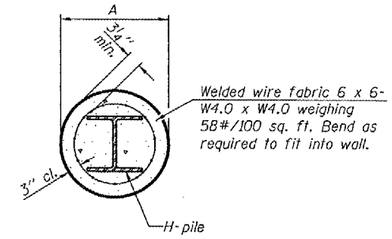
Designation	Depth d	Flange width b_f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	11/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53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



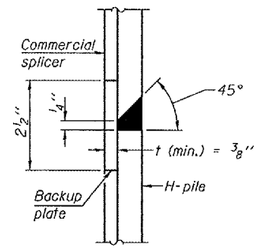
ELEVATION



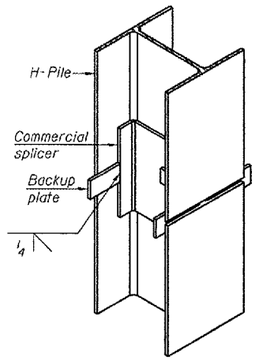
Note:
Forms for encasement may be omitted when soil conditions permit.

SECTION A-A

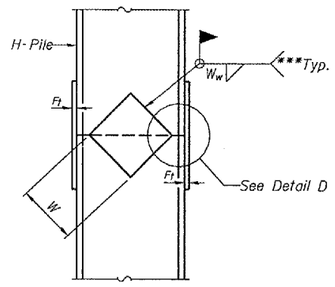
PILE ENCASEMENT



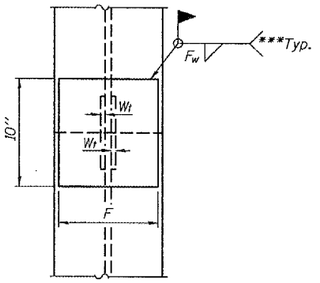
DETAIL "B"



ISOMETRIC VIEW

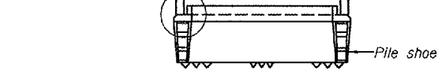


ELEVATION



END VIEW

WELDED COMMERCIAL SPLICE



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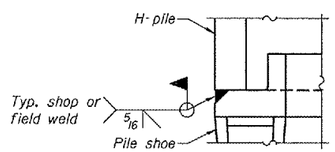
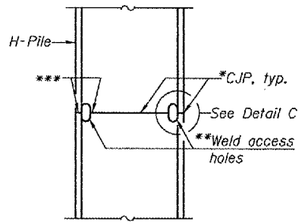


DETAIL A

H-PILE SHOE ATTACHMENT



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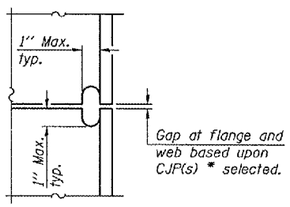
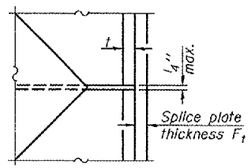


DETAIL C



DETAIL D

COMPLETE PENETRATION WELD SPLICE

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"

*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.

WELDED PLATE FIELD SPLICE

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

DESIGNED	Stephen M Ryan
CHECKED	SEM
DRAWN	R. Sommer ØML
CHECKED	SMR/SEM

March 4, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

F-HP 9-3-07

STEEL H-PILE DETAILS
F.A.S. ROUTE 2244 - SECTION (107B)BR
STARK COUNTY
STATION 85+31.81
STRUCTURE NO. 088-0029

...\projects\bm100029\0880029.dgn 03/04/2008 8:32:20 AM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 2244	(107B) BR	Stark	39	23
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 10
10 SHEETS

Contract #68115

Illinois Department of Transportation
Division of Highways
District Four Materials

SOIL BORING LOG

Page 1 of 2

ROUTE FAS 2244 DESCRIPTION Osceola Road over Trib. to West Fork Spoon River Date 8/202
SECTION (107B) BR LOCATION NW 1/4, NE 1/4, SEC. 23, TWP. 14N, RNG. 6E, 4th PM LOGGED BY DPS
COUNTY Stark DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO. EXISTING 088-0017
Station 85+28.83
BORING NO. 1
Station 85+08
Offset 14.00ft Rt of CL
Ground Surface Elev. 707.4 ft

Surface Water Elev. 694.05 ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 683.4 ft
Upon Completion 700.9 ft
After 24 Hrs. 698.8 ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
No Sample Taken			
705.9			
Brown SILTY CLAY	2		
	3	2.6	20.0
	4	S	
703.4			
Brown SILTY CLAY LOAM	2		
-5	1	1.0	22.0
	3	S	
▽			
	0		
	1	0.3	26.0
	1	B	
698.4			
Brown & Gray SILTY CLAY	1		
-10	1	1.3	23.0
	2	P	
695.9			
Gray SILTY CLAY	1		
	2	1.3	22.0
	2	B	
693.4			
Dark Gray SILTY CLAY	H		
-15	2	1.2	32.0
	2	B	
	H		
	1	0.7	30.0
	2	B	
688.4			
Brown & Gray SANDY CLAY LOAM	H		
-20	1	0.4	29.0
Brown & Gray SANDY CLAY LOAM (continued)	2	B	
685.9			
Gray SANDSTONE	20		
	60		14.0
	40@3"		
683.4 ▽			
Gray SANDY CLAY LOAM	11		
Free Water @ 24' (7.32m)	24	4.2	14.0
-25	36	S	
680.9			
Gray SHALEY CLAY	8		
	20	5.2	13.0
	20	S	
678.4			
Gray SHALE	20		
-30	45		13.0
	55		
675.9			
Gray SHALEY CLAY	13		
	16	2.5	16.0
	36	S	
673.4			
Gray SHALE	16		
-35	42		14.0
	58		
670.9			
Black COAL	22		
	24		45.0
	25		
668.4			
Gray SHALEY CLAY	11		
-40	18	6.8	13.0

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 Four Materials

SOIL BORING LOG

Page 2 of 2

ROUTE FAS 2244 DESCRIPTION Osceola Road over Trib. to West Fork Spoon River Date 8/202
SECTION (107B) BR LOCATION NW 1/4, NE 1/4, SEC. 23, TWP. 14N, RNG. 6E, 4th PM LOGGED BY DPS
COUNTY Stark DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO. EXISTING 088-0017
Station 85+28.83
BORING NO. 1
Station 85+08
Offset 14.00ft Rt of CL
Ground Surface Elev. 707.4 ft

Surface Water Elev. 694.05 ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 683.4 ft
Upon Completion 700.9 ft
After 24 Hrs. 698.8 ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Gray SHALEY CLAY (continued)	28	S	
685.9			
	9		
	34	3.3	11.0
	50	S	
-45	13	2.1	13.0
	17	S	
	17		
	23	2.0	16.0
659.4	38	S	
End of Boring			
-50			
-55			
-60			

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 Four Materials

SOIL BORING LOG

Page 1 of 1

ROUTE FAS 2244 DESCRIPTION Osceola Road over Trib. to West Fork Spoon River Date 8/902
SECTION (107B) BR LOCATION NW 1/4, NE 1/4, SEC. 23, TWP. 14N, RNG. 6E, 4th PM LOGGED BY DPS
COUNTY Stark DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO. EXISTING 088-0017
Station 85+28.83
BORING NO. 2
Station 85+43
Offset 15.00ft Lt of CL
Ground Surface Elev. 707.9 ft

Surface Water Elev. 694.05 ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 691.9 ft
Upon Completion 695.0 ft
After 24 Hrs. 696.8 ft

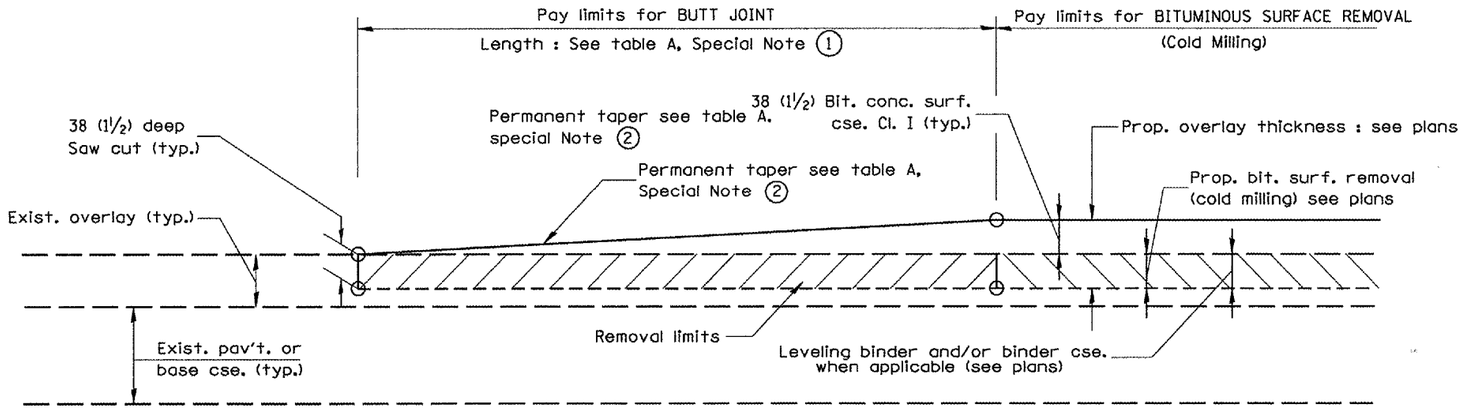
DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Not Sample Taken			
706.9			
Brown SILTY CLAY	1		
	2	2.3	18.0
	4	S	
704.4			
Brown & Gray SILTY CLAY w/trace of coal	1		
-5	1	0.9	25.0
	2	S	
701.9			
Brown & Gray SILTY CLAY LOAM	1		
w/trace of coal @ 5'-8.5'	2	1.3	26.0
(1.83m-2.59m)	2	B	
	H		
	1	0.8	26.0
-10	2	S	
	1		
	1	0.6	24.0
▽	2	S	
694.4			
Gray SANDY CLAY LOAM	1		
	1	0.4	23.0
-15	3	B	
691.9 ▽			
Brown SILTY CLAY LOAM w/trace of stone	1		
Free Water @ 16' (4.8m)	6	0.4	20.0
	4	S	
689.4			
Brown Fine SAND	13		
-20	18		14.0
	23		
Brown Fine SAND (continued)	29		
686.9			
Brown & Gray Fine SAND	31		
	25		14.0
684.4			
Gray SHALE	28		
	63		12.0
-25	97@2"		
	21		
	88		12.0
	140@1"		
	28		
	50		14.0
-30	50@3"		
676.9			
Gray SHALEY CLAY	14		
	28	5.2	15.0
	55	S	
674.4			
Black COAL	57		
	60		32.0
-35	50@5"		
	20		
	29		25.0
	30		
669.4			
Gray SHALE	19		
	20		13.0
667.6 -40	30@3"		
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.S. ROUTE 2244 - SECTION (107B)BR
STARK COUNTY
STATION 85+31.81
STRUCTURE NO. 088-0029

CONTRACT NO. 68115

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	(107B)BR	STARK	39	24
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CASE 1 : WITH BITUMINOUS SURFACE REMOVAL (COLD MILLING)

TABLE A

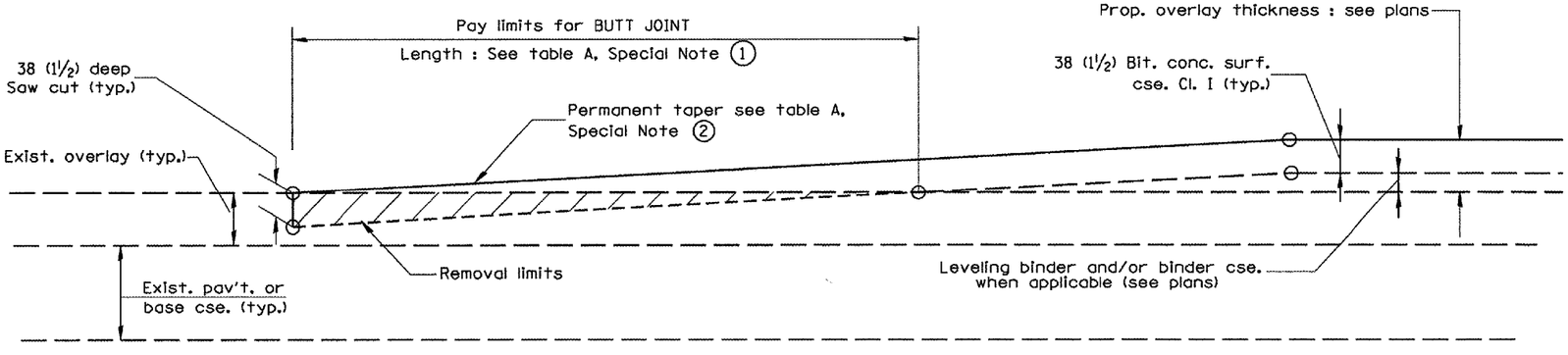
(LENGTHS AND TAPER RATES)

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
(1)	LENGTH OF BUTT JOINT	18.0 m(60')	9.0 m(30')
(2)	PERMANENT TAPER RATE	1:480	1:240
(3)	TEMPORARY RAMP TAPER RATE	1:80	1:40
(4)	TEMPORARY RAMP LENGTH	3.0 m(10')	1.5 m(5')
(5)	LENGTH OF BUTT JOINT	3.0 m(10')	3.0 m(10')

GENERAL NOTES

1. The work shall be done in accordance with Article 406.18 and the Special Provision for Butt Joints.
2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.03 and the Special Provisions for Butt Joints.
3. The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.06.

DESIGNER NOTES:
1. Include District Special Provision for Butt Joints & for Bituminous Surface Removal (Cold Milling).
2. The butt joints pay item includes the saw cut & temporary ramp. Payment for the Butt Joint applies whether or not the project features Bituminous Surface Removal (Cold Milling).



CASE 2 : NO BITUMINOUS SURFACE REMOVAL (COLD MILLING)

All dimensions are in millimeters (inches) unless otherwise noted.

DATE	REVISIONS	BY
1-1-97	RENUM. C-23.01, NEW REVISION BOX	T.P.
4-1-97	CORRECTION TO DEPTH	J.A.
9-15-05	REVISED DESIGNER NOTE	M.M.A.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT CADD STANDARD

BUTT JOINTS

CADD STD NO. 406101-D4 SHEET 1 OF 3

SCALE: NOT DRAWN TO SCALE DRAWN BY CADD

DATE 1/21/2008 CHECKED BY

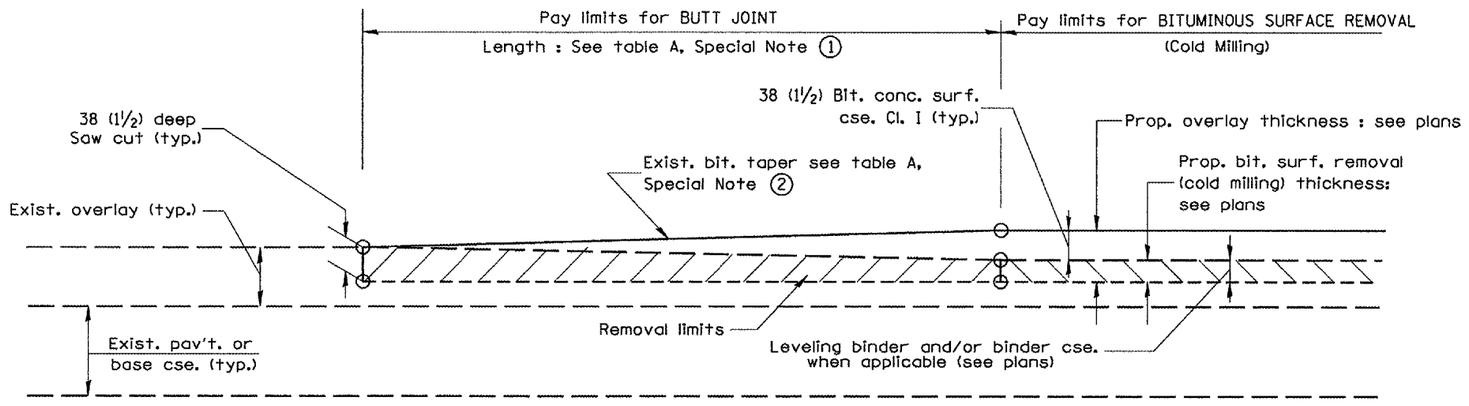
406101-D4 (1)

1/21/2008

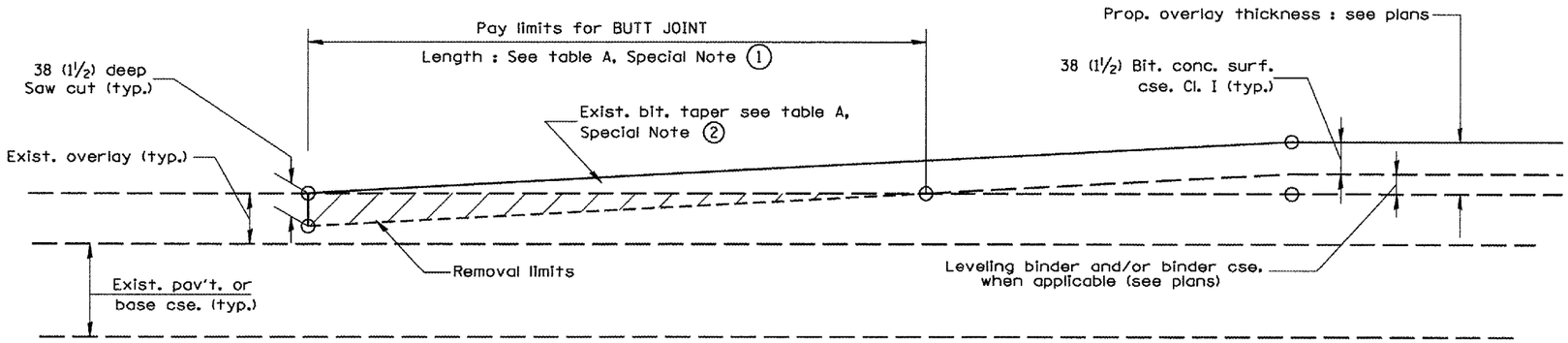
DGN-ONLY

CONTRACT NO. 68115

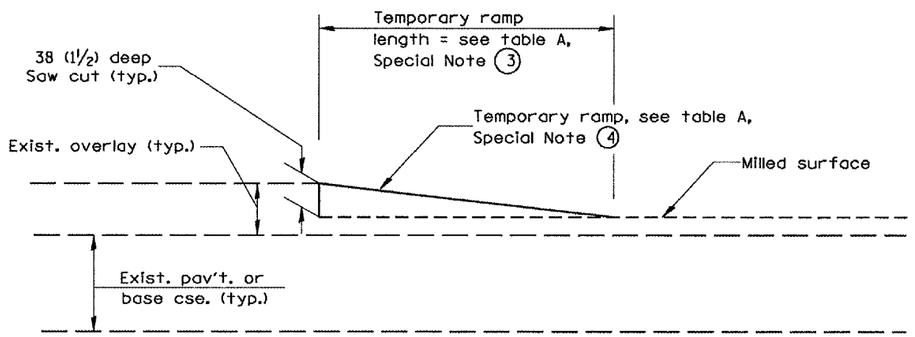
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	(107B)BR	STARK	39	25
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CASE 3 : WITH BITUMINOUS SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER



CASE 4 : NO BITUMINOUS SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER



DETAIL TEMPORARY RAMP

All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT CADD STANDARD

BUTT JOINTS

CADD STD NO. 406101-D4 SHEET 2 OF 3

SCALE: NOT DRAWN TO SCALE DRAWN BY CADD

CHECKED BY

406101-D4 (2)

1/21/2008

DGN-ONLY

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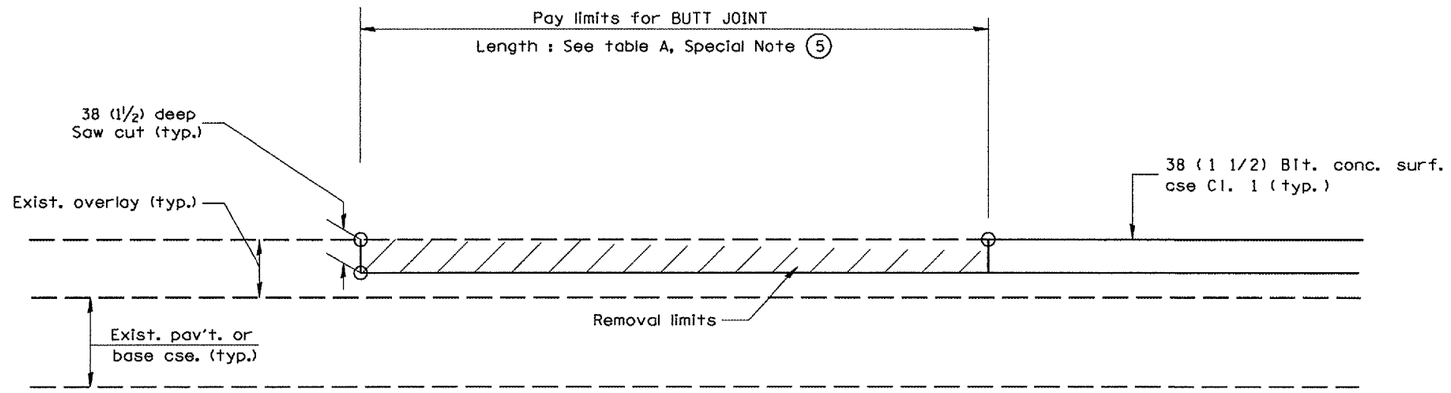
CONTRACT NO. 68115

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	(107B)BR	STARK	39	26
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CASE 5 : WITH BITUMINOUS SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER

All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT CADD STANDARD

BUTT JOINTS

CADD STD NO. 406101-D4 SHEET 3 OF 3

SCALE: NOT DRAWN TO SCALE DRAWN BY CADD

CHECKED BY

406101-D4 (3)

1/21/2008

DGN-ONLY

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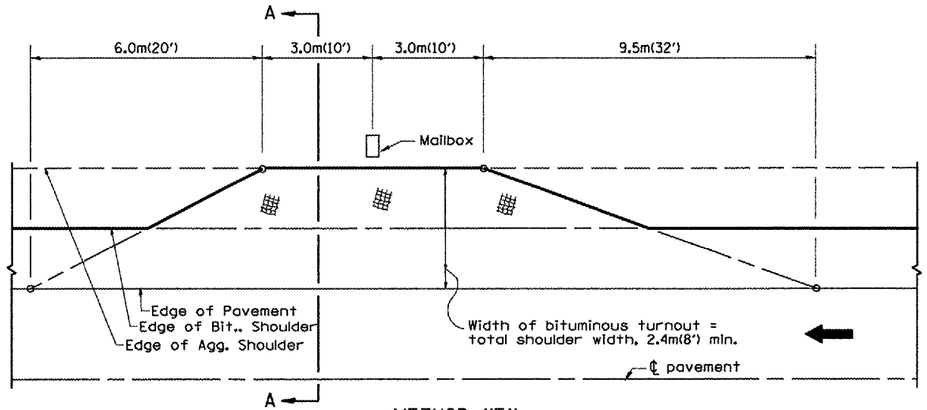
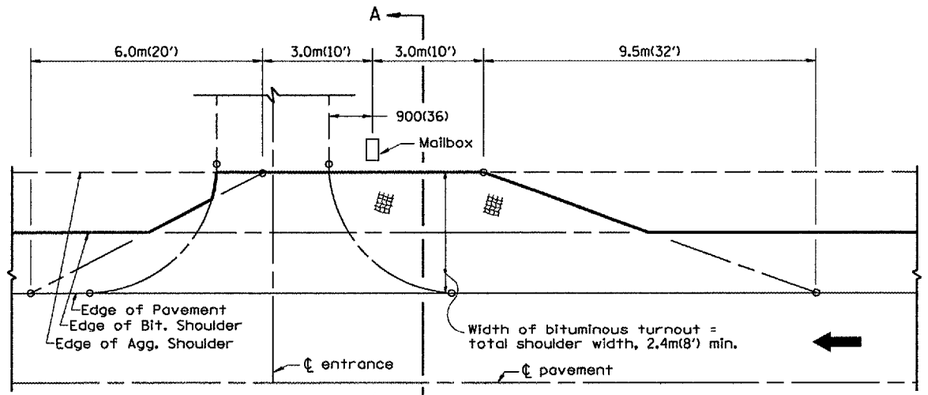
CONTRACT NO. 68115

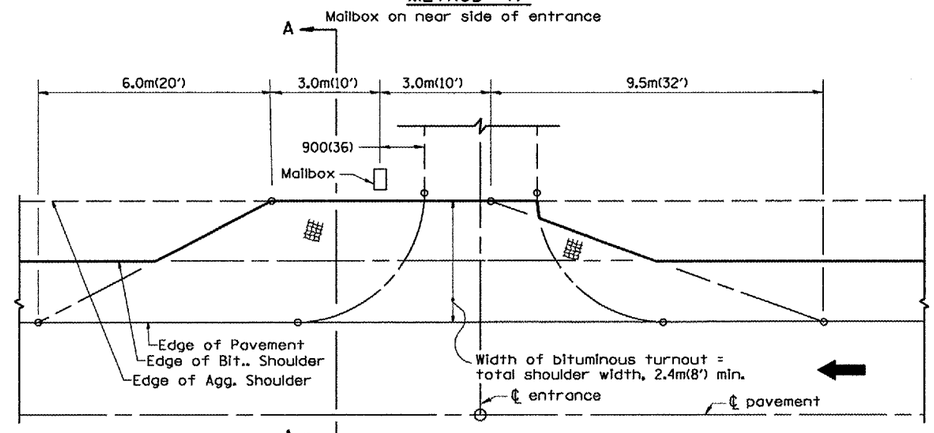
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	(107B)BR	STARK	39	27
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



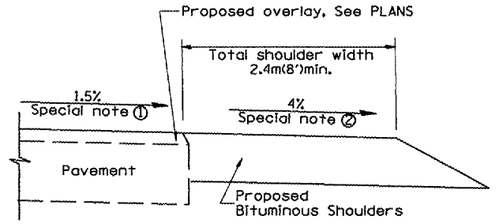
METHOD "T"
Typical Application



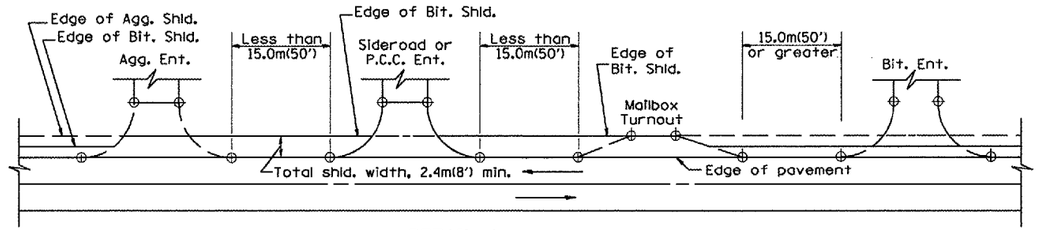
METHOD "N"
Mailbox on near side of entrance



METHOD "F"
Mailbox on far side of entrance



SECTION A-A



DETAIL A

SHOULDER TREATMENT FOR CLOSELY SPACED SIDEROADS, ENTRANCES, AND/OR MAILBOX TURNOUTS

GENERAL NOTES

1. Mailbox turnouts shall slope away from the pavement edge at a rate equal to the shoulder slope. See SECTION A-A.
2. The total shoulder width, 2.4m(8') minimum, shall be paved between sideroads entrances and/or mailbox turnouts at locations where the distance between radius or taper control points is less than 15.0m(50'). See DETAIL A.
3. Mailboxes shall be mounted such that the face of the mailbox is 150(6) to 300(12) and the post a minimum of 600(24) from the edge of the turnout surfacing.

SPECIAL NOTES

① The mainline pavement cross-slope is 1.5% for tangent alignment. See PLANS for cross-slope on superelevated horizontal curves.

② The shoulder slope shall control the turnout slope. The standard cross-slope is 4% for tangent alignment. Through superelevated curves, the maximum pavement-shoulder breakover should not be greater than 10% for shoulders 1.8m(6') and wider and 12% for shoulders 1.2m(4') and less. Where 300(12) paved shoulders are provided, the breakover should be at the edge of the paved shoulder rather than at the pavement edge.

DESIGNER NOTE
1. THIS DRAWING REPLACES STATE STANDARD 406201
2. DESIGNER SHOULD CONSULT CHAPTER 49 OF THE BDE MANUAL

1/21/2008

All dimensions are in millimeters (inches) unless otherwise noted.

DATE	REVISIONS	BY
1-1-97	RENUM. C-90.01, NEW REVISION BOX	T.P.
7-1-97	REVISE DESIGNER NOTES	J.A.
9-15-05	REVISED DESIGNER NOTE	M.M.A.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

MAILBOX TURNOUTS FOR "3R" PROJECTS

CADD STD NO. 406201-D4
SCALE: NOT DRAWN TO SCALE
DRAWN BY: CADD
CHECKED BY: T. PICKERING

406201-D4

DGN-ONLY

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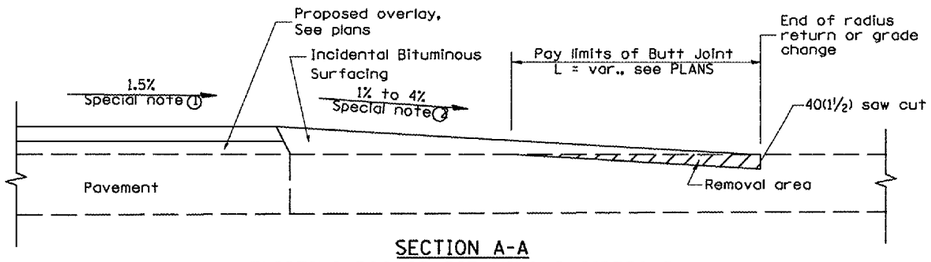
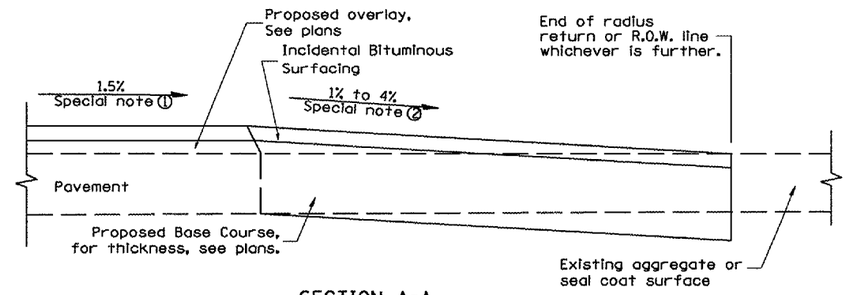
CONTRACT NO. 68115

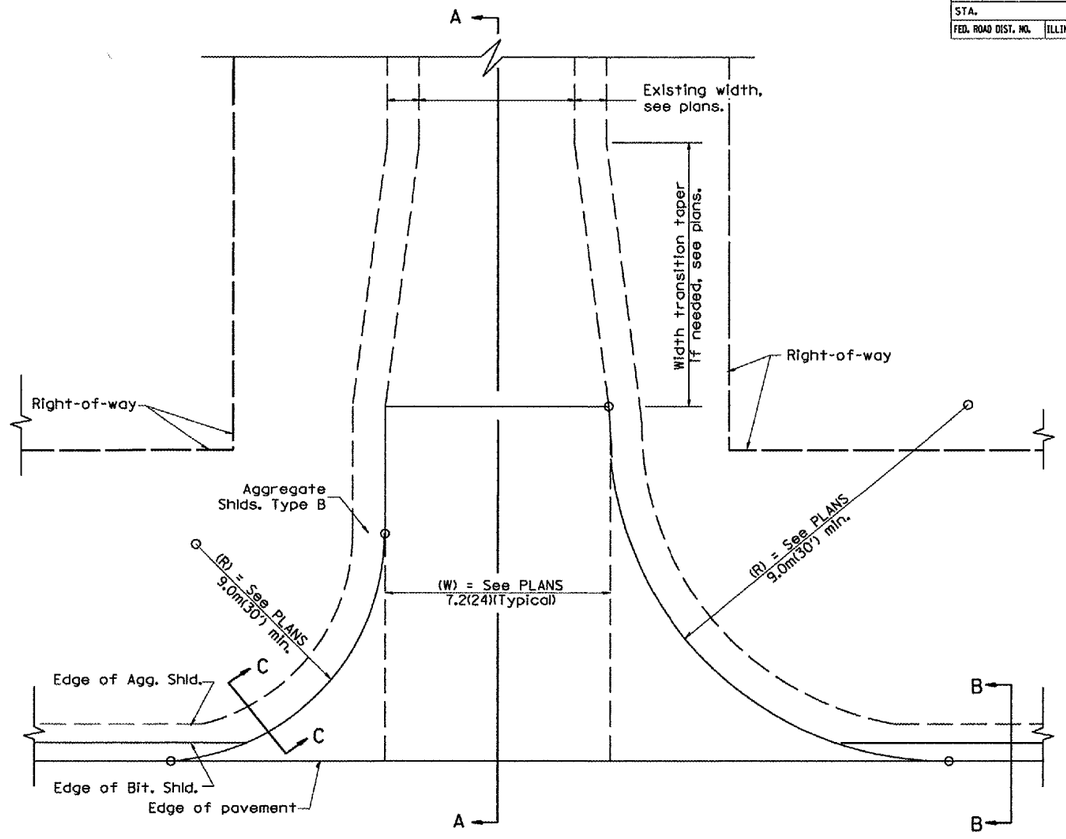
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	(107B)BR	STARK	39	28
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



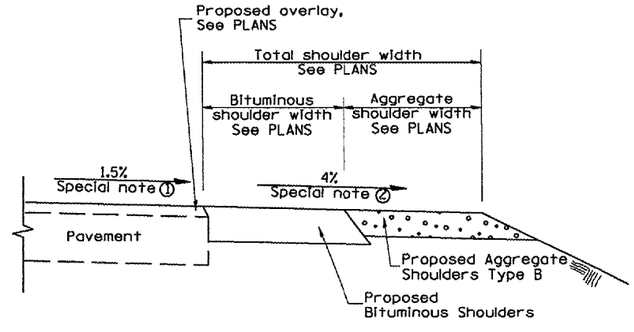
SECTION A-A
EXISTING PCC OR BITUMINOUS SIDEROAD



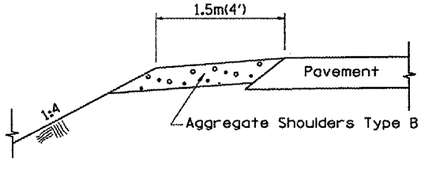
SECTION A-A
EXISTING AGGREGATE OR SEAL COAT SIDEROAD



PLAN



SECTION B-B
MAINLINE SHOULDER TREATMENT



SECTION C-C
SIDEROAD SHOULDER TREATMENT

SPECIAL NOTES

① The mainline pavement cross-slope is 1.5% for tangent alignment. See Plans for cross-slope on superelevated horizontal curves.

② The sideroad profile should drain away from the mainline at 1% to 4% for 15.0m(50') to 30.0m(100'), or as a minimum to the end of the radius return. When the sideroad is on the high side of a mainline superelevated curve, - 2% maximum should be provided in order to minimize breakover at the pavement edge. See plans for sideroad profiles.

All dimensions are in millimeters (inches) unless otherwise noted.

DESIGNER NOTE
1. DESIGNER SHOULD CONSULT CHAPTER 49 OF THE BDE MANUAL.

1/21/2008

DATE	REVISIONS	BY
1-1-97	RENUM. C-105.02, NEW REVISION BOX	T.P.
7-1-97	REVISE DESIGNER NOTES	J.A.
9-15-05	REVISED DESIGNER NOTE	M.M.A.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

RURAL SIDEROADS FOR "3R" PROJECTS

CADD STD NO. 406401-D4

SCALE: NOT DRAWN TO SCALE

DRAWN BY CADD
CHECKED BY: T. PICKERING

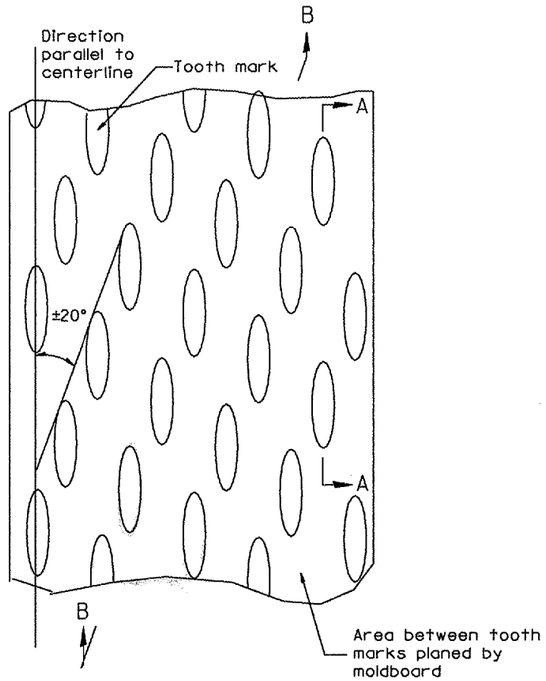
406401-D4

DGN-ONLY

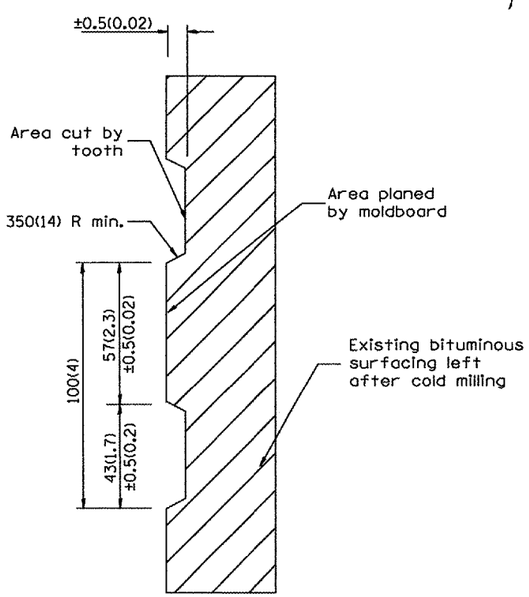
/Dwg/D4 Details.dgn 1/21/2008 1:15:26 PM

CONTRACT NO. 68115

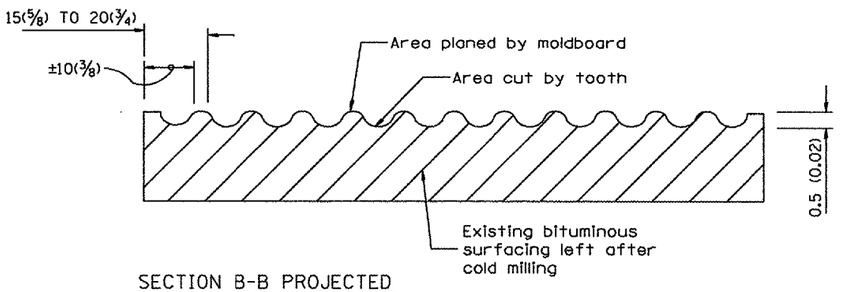
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	(107B)BR	STARK	39	29
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN



SECTION A-A



SECTION B-B PROJECTED
PERPENDICULAR TO CENTERLINE

General notes:

1. Coldmilling shall consist of two processes: Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.
2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.

DESIGNER NOTE
1. INCLUDE DISTRICT SPECIAL PROVISION, IF APPLICABLE.

1/21/2008

DGN-ONLY

All dimensions are in millimeters (inches) unless otherwise noted.

DATE	REVISIONS	BY
1- 1-97	RENUM. C-104.01, NEW REVISION BOX	T. P.
4-20-98	REMOVED MILLING DETAIL FROM STD.	J.
9-08-98	CORRECT NOTE LEADER PLACEMENT	R. W.

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT CADD STANDARD

BITUMINOUS SURFACE REMOVAL (COLD MILLING)

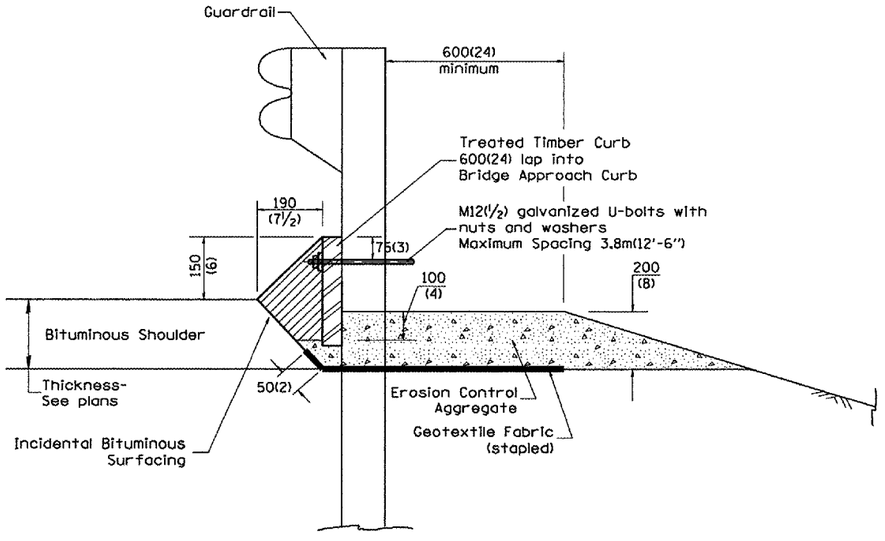
CADD STD NO. 440001-D4
SCALE: NOT DRAWN TO SCALE DRAWN BY CADD
DATE 1/21/2008 CHECKED BY

440001-D4

.../Dwg/D4_Details.dgn 1/21/2008 1:15:31 PM

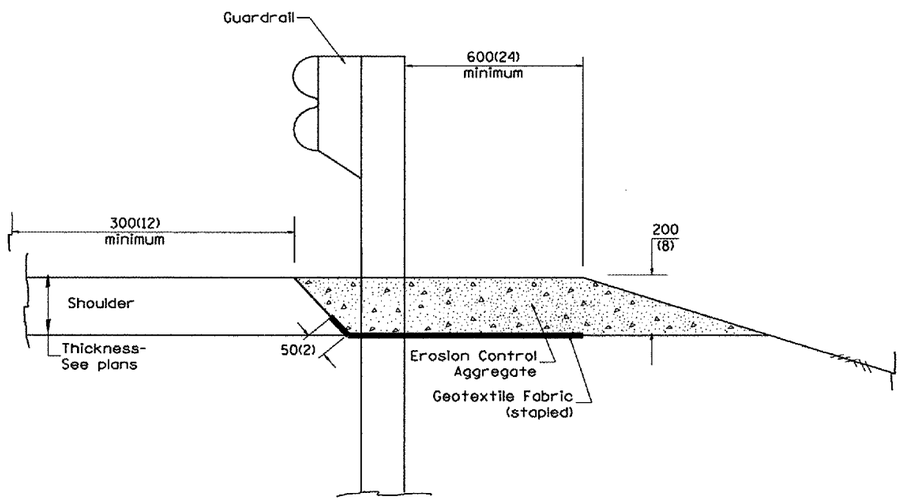
DESIGNER NOTE:
1. Use EROSION CONTROL CURB at guardrail installations where grades are equal to or greater than 1% and at inlets. (Include District Special Provision)
2. Use GUARDRAIL AGGREGATE EROSION CONTROL at guardrail installations where grades are less than 1% (Include District Special Provision)
3. Include State Standards 609001, 609006 or 610001 if applicable.
4. Include the following District Cadd Standards as needed: Slope Drains for Exposed Pipes; Slope Drains for Buried Pipes; Seepage Collars for Exposed Pipes; Concrete Thrust Blocks and Pipe Elbow.
5. Include District Special Provision -"Aggregate Quality" for projects located in the Western Area of the District - approx. dividing line is IL 97.

1/21/2008



TYPICAL SECTION WITH EROSION CONTROL CURB

NOT APPLICABLE



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

GENERAL NOTES: EROSION CONTROL CURB

1. This work shall consist of grading as needed, installing hardware and treated timber boards, furnishing and placing mastic material and incidental bituminous surfacing in front of Steel Plate Beam Guardrail in accordance with Plan Details.

2. Timber shall be treated in accordance with Article 1007.12. All preservatives specified in the article will be allowed. Waterborne preservatives "asa" and "cca" shall have a minimum retention of 6.4 kg/m^3 (0.40 lbs./cu. ft.)

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.

2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.

3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 300(12) minimum overlap. A knife cut for guardrail post installation is necessary.

4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.

5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.

6. Materials shall meet the following requirements:

   A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.

   B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.

CONTRACT NO. 68115

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	(107B)BR	STARK	39	30
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

All dimensions are in millimeters (inches) unless otherwise noted.

DATE	REVISIONS	BY
1-1-97	RENUM. C-22.01, NEW REVISION BOX	T.P.
3-1-97	CORRECT STD. NUMBERS IN NOTES PG. 2	J.A.
11-3-00	CORRECTION TO NOTES	M.A.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT CADD STANDARD

GUARDRAIL EROSION CONTROL TREATMENTS

CADD STD NO. 630101-D4(1)
SCALE: NOT DRAWN TO SCALE
DATE 1/21/2008

SHEET 1 OF 2
DRAWN BY CADD
CHECKED BY

630101-D4(1)

DGN-ONLY

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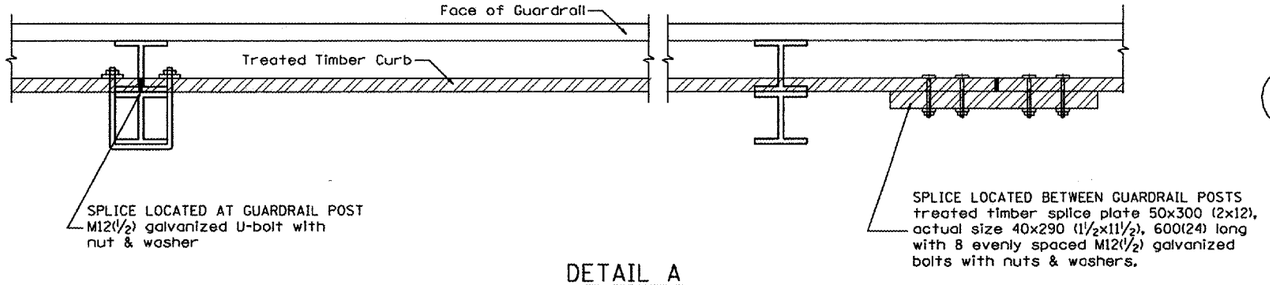
CONTRACT NO. 68115

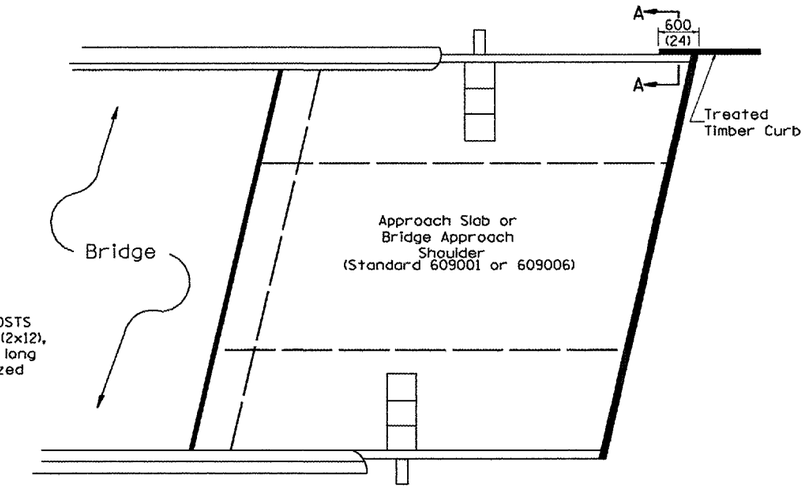
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	(107B)BR	STARK	39	31
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DETAIL A

(Typical Treated Timber Splices)

NOT APPLICABLE



PLAN VIEW

APPROACH SLAB OR BRIDGE APPROACH SHOULDER
(STANDARD 609001 or 609006)

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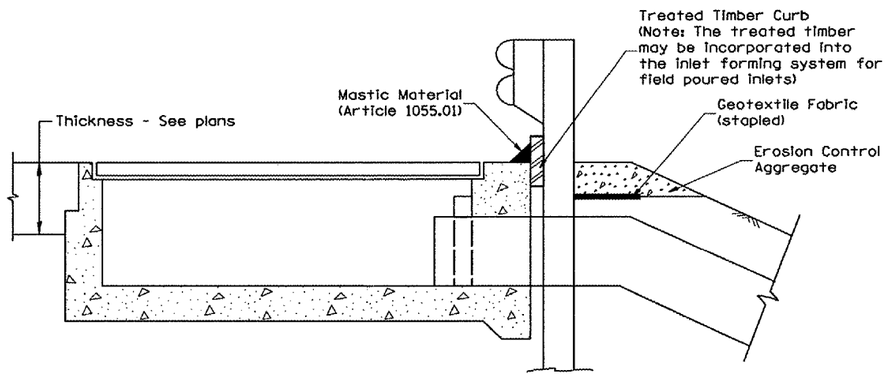

TYPICAL SECTION WITH EROSION CONTROL CURB
AT INLETS TYPE E & F (STANDARD 610001)

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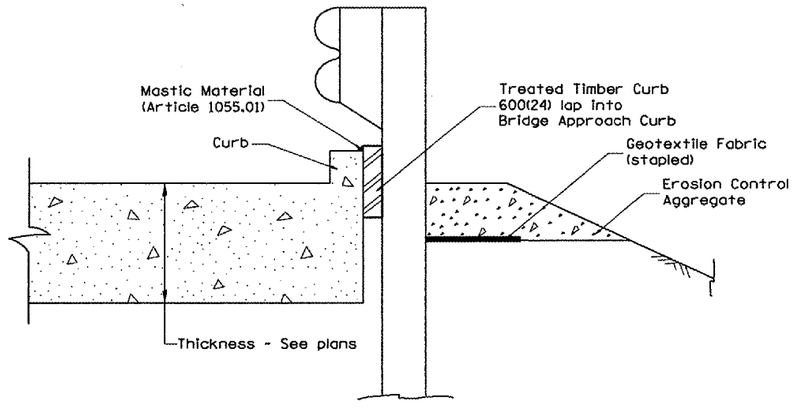

SECTION A-A

TYPICAL SECTION WITH EROSION CONTROL CURB
AT BRIDGE APPROACH CURB
(STANDARD 609001 OR 609006)

NOT APPLICABLE

All dimensions are in millimeters (inches) unless otherwise noted.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT CADD STANDARD

GUARDRAIL EROSION CONTROL TREATMENTS

CADD STD NO. 630101-D4(2)	SHEET 2 OF 2
SCALE: NOT DRAWN TO SCALE	DRAWN BY CADD
DATE 1/21/2008	CHECKED BY

630101-D4(2)

1/21/2008

DGN-ONLY

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CONTRACT NO. 68115

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	(107B)BR	STARK	39	32
STA. 83+00.00		TO STA. 83+50.00		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

	BY	DATE
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	PLOTTED	
	CROSS SECTIONS	
	AREAS	
	AREAS CHECKED	

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FILL = 0.90
TOPSOIL = 4.93

709.81

701.33

12%

12%

703.37

EX. ROW

EX. ROW

CUT = 3.37
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TOPSOIL = 2.94

83+50.00

720 715 710 705 700

EX. ROW

EX. ROW

83+00.00

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	BY	DATE
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USER NAME = mi

Prepared by: Foth Infrastructure & Environment, LLC

FINAL SUBMITTAL 02/01/08 FVD # 5589.80

OSCEOLA ROAD X-SECTIONS

.../Work Order 5/Dwg/xsht01.dgn 1/23/2008 11:26:31 AM

CONTRACT NO. 68115

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	(107B)BR	STARK	39	33
STA. 84+00.00	TO STA. 84+50.00			
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

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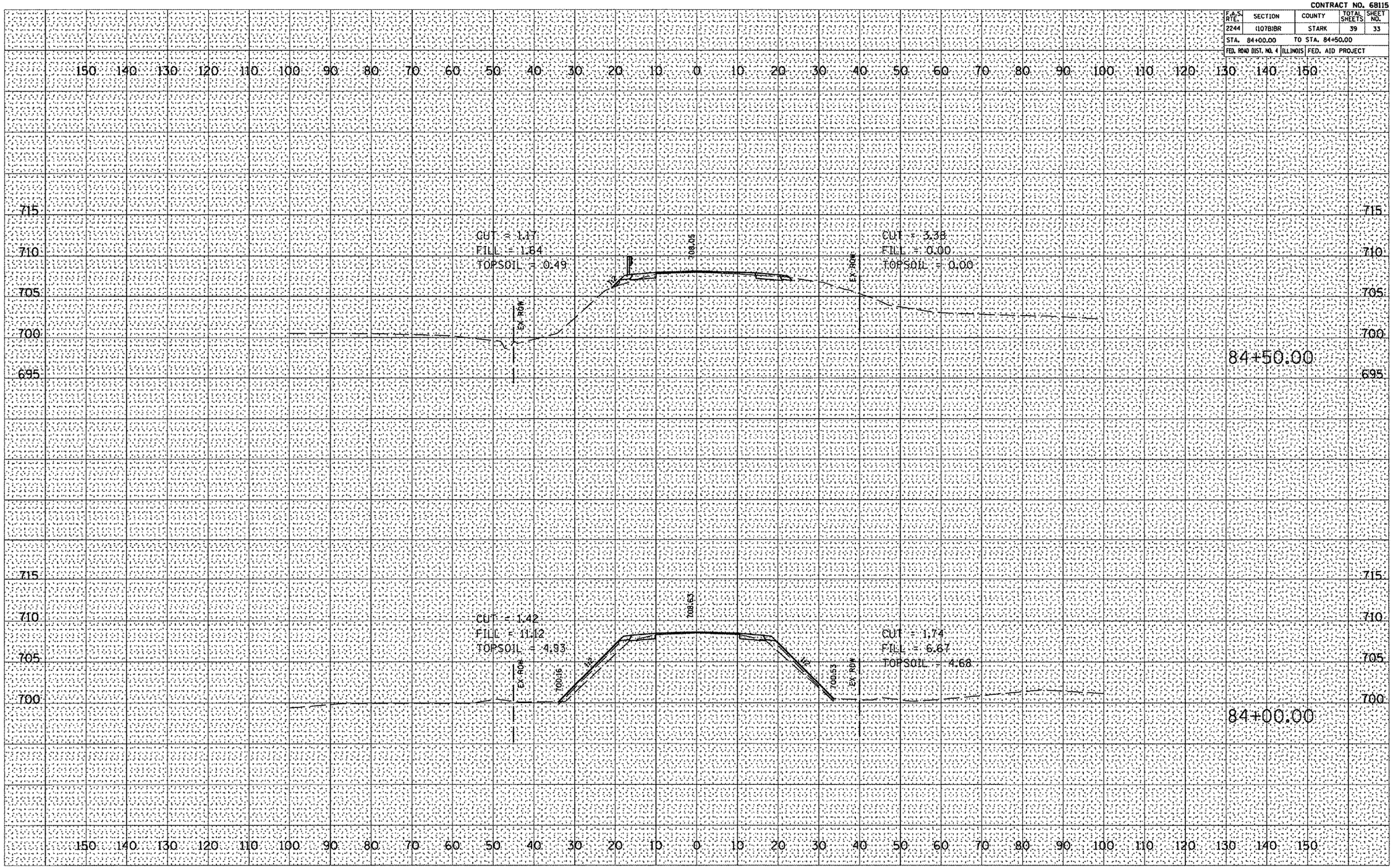

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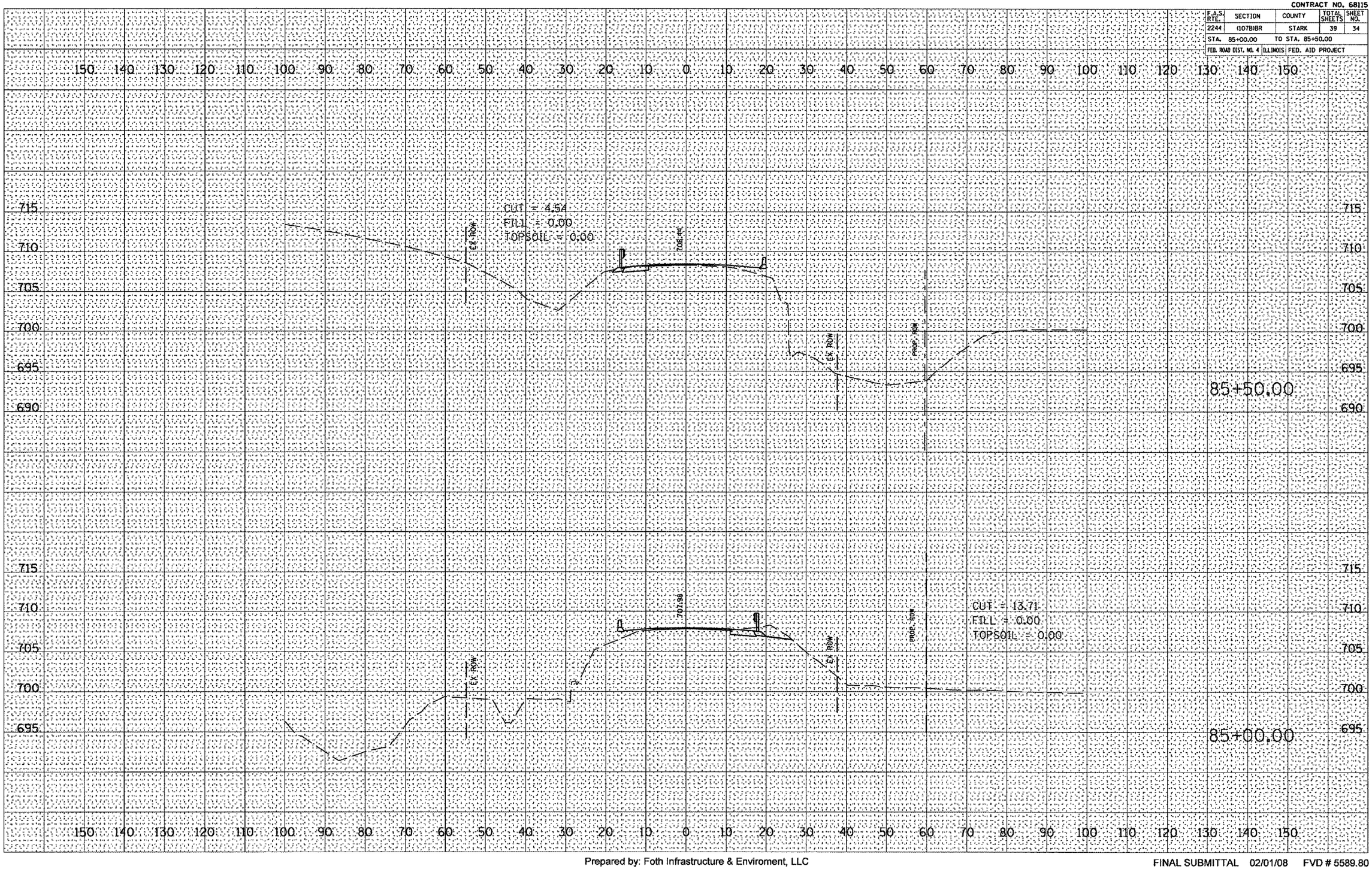
Prepared by: Foth Infrastructure & Environment, LLC

FINAL SUBMITTAL 02/01/08 FVD # 5589.80

OSCEOLA ROAD X-SECTIONS

CONTRACT NO. 68115

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	(107B)BR	STARK	39	34
STA. 85+00.00		TO STA. 85+50.00		
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		



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

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Prepared by: Foth Infrastructure & Enviroment, LLC

FINAL SUBMITTAL 02/01/08 FVD # 5589.80

OSCEOLA ROAD X-SECTIONS

CONTRACT NO. 68115

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	(107B)BR	STARK	39	35
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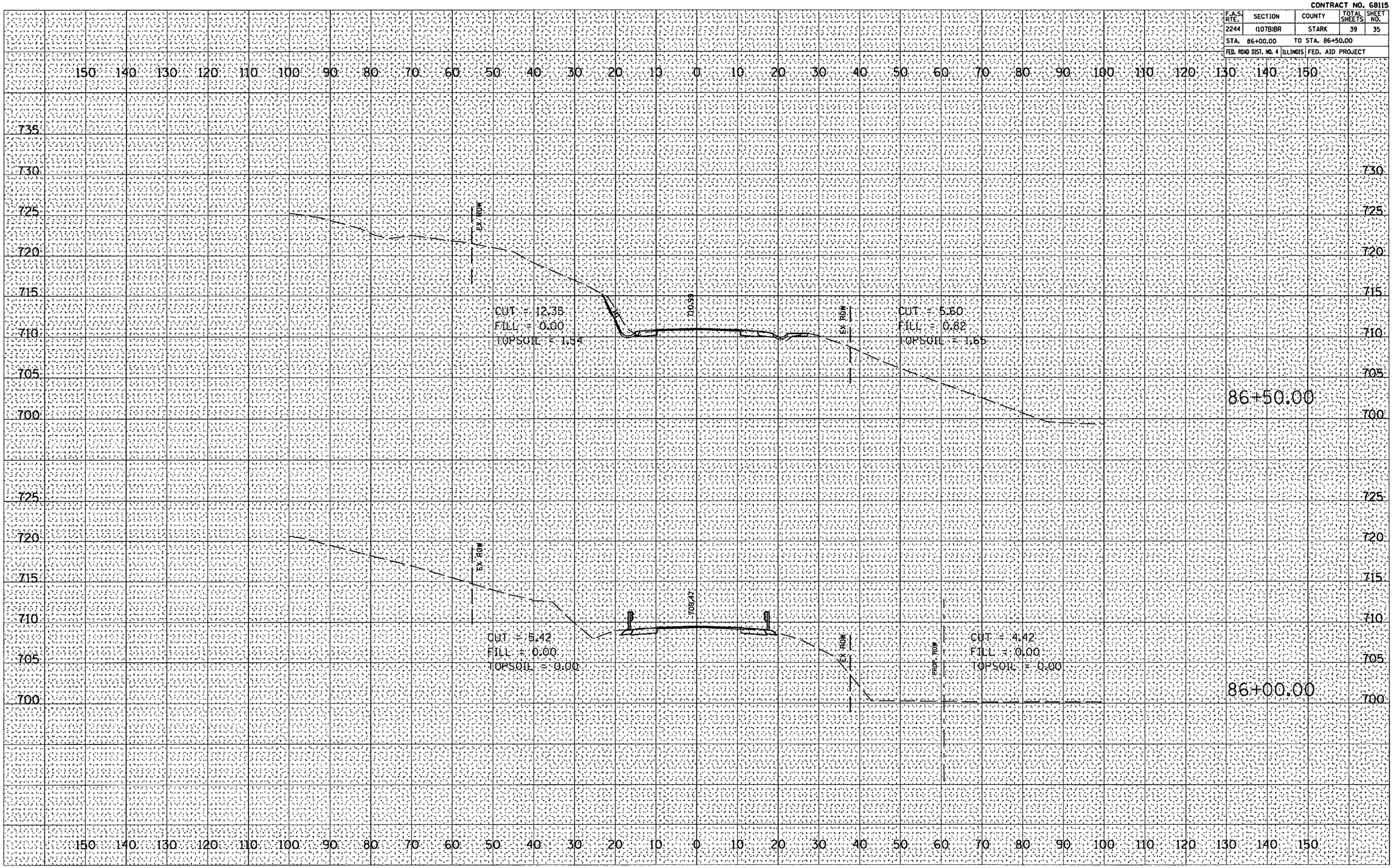
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		



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Prepared by: Foth Infrastructure & Environment, LLC

FINAL SUBMITTAL 02/01/08 FVD # 5589.80

OSCEOLA ROAD X-SECTIONS

CONTRACT NO. 68115

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	(107B)BR	STARK	39	36
STA. 87+00.00	TO STA.			
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

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735
730
725
720
715
710

EX. ROW

CUT = 7.01
FILL = 0.00
TOPSOIL = 0.70

TOE 30

EX. ROW

CUT = 3.12
FILL = 0.00
TOPSOIL = 0.20

87+00.00

Prepared by: Foth Infrastructure & Environment, LLC

FINAL SUBMITTAL 02/01/08 FVD # 5589.80

OSCEOLA ROAD X-SECTIONS

CONTRACT NO. 68115

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	1107B(BR	STARK	39	37
STA. 10+00.00	TO STA. 10+40.00			
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

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SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

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BY	DATE

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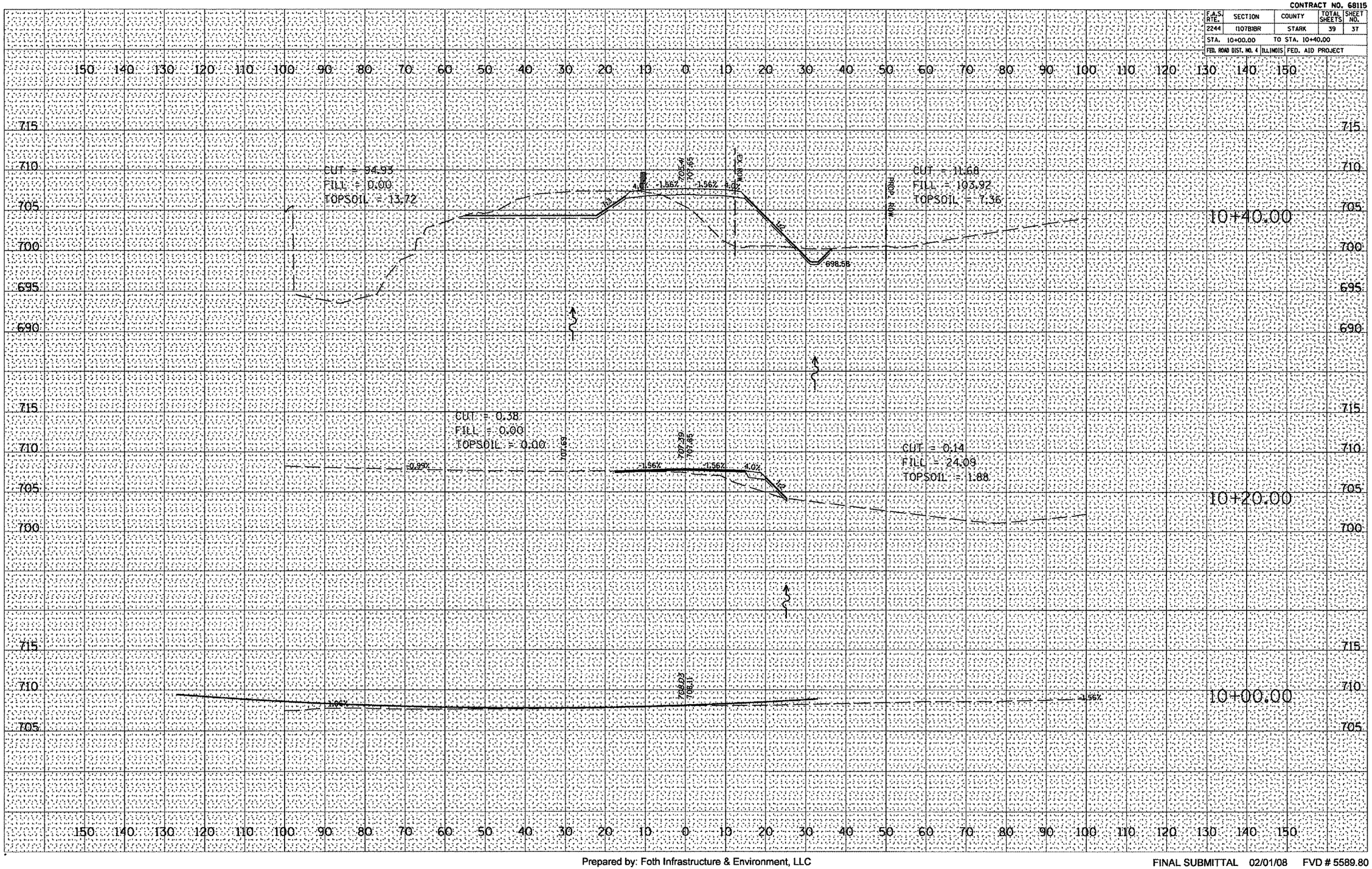

Prepared by: Foth Infrastructure & Environment, LLC

FINAL SUBMITTAL 02/01/08 FVD # 5589.80

TOWNSHIP ROAD 1500N X-SECTIONS

CONTRACT NO. 68115

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2244	(107B)BR	STARK	39	38
STA. 10+55.00	TO STA. 10+80.00			
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS		
AREAS CHECKED		
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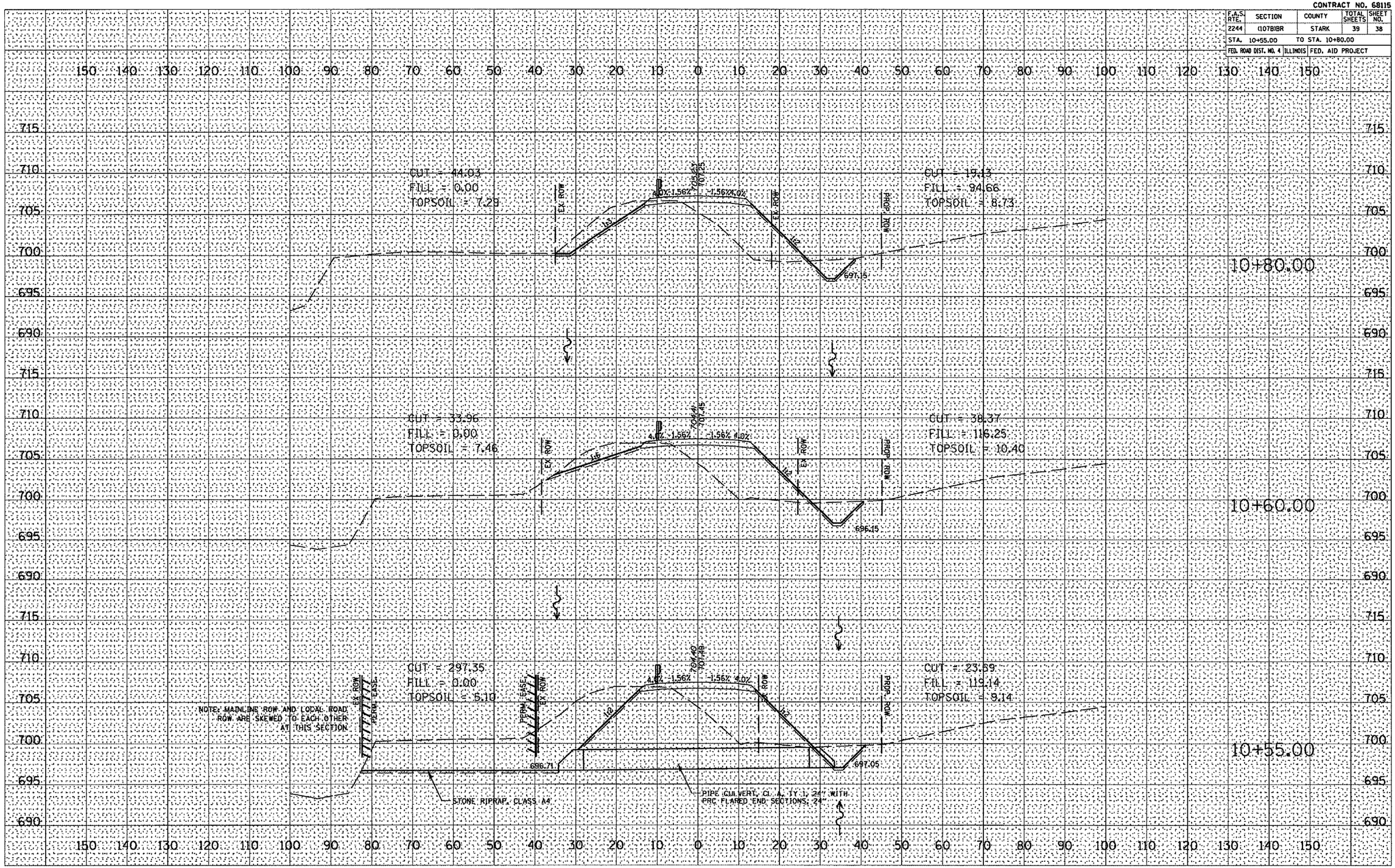

CONTRACT NO. 68115

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2244	(107B)BR	STARK	39	39
STA. 11+00.00	TO STA. 12+00.00			
FED. ROAD DIST. NO. 4	ILLINOIS	FED. AID PROJECT		

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

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		BY
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AREAS		
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715 710 705 700 695 690

12+00.00

CUT = 7.20
FILL = 0.00
TOPSOIL = 0.00

EX. ROW | PROP. ROW

706.24 706.33 1.56% 1.56%

CUT = 8.34
FILL = 0.00
TOPSOIL = 0.00

11+50.00

CUT = 6.54
FILL = 8.13
TOPSOIL = 5.53

EX. ROW | PROP. ROW

706.6 706.54 4.0% 1.56% 1.56% 4.0%

CUT = 4.60
FILL = 30.56
TOPSOIL = 6.25

697.43

ABANDON EXISTING CULVERT

11+00.00

CUT = 44.45
FILL = 0.00
TOPSOIL = 6.51

EX. ROW | PROP. ROW

706.9 707.04 4.0% 1.56% 1.56% 4.0%

CUT = 16.93
FILL = 62.77
TOPSOIL = 8.38

697.23

Prepared by: Foth Infrastructure & Environment, LLC

FINAL SUBMITTAL 02/01/08 FVD # 5589.80

TOWNSHIP ROAD 1500N X-SECTIONS

.../Work Order 5/Dwg/xsht02.dgn 1/23/2008 2:51:50 PM