ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 50	05-08145 -00-BR	WOODFORD	47	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 89448	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED HIGHWAY BRIDGE PROGRAM

PROJECT BROS-203(23)
SECTION 05-08145-00-BR
METAMORA ROAD DISTRICT
WOODFORD COUNTY
T.R. 50 / COAL BANK ROAD
PROPOSED STRUCTURE NO. 102-3039
C-94-147-06

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	GENERAL NOTES AND HIGHWAY STANDARDS
3.	SUMMARY OF QUANTITIES
4.	SCHEDULE OF QUANTITIES
5.	TYPICAL SECTIONS AND MISC. DETAILS
6.	PLAN SHEET
7.	PROFILE SHEET
8.-9.	EROSION CONTROL SHEETS
10.-28.	STATION CROSS SECTIONS
29.-42.	BRIDGE SHEETS
43.-44.	BORINGS
45.-47.	DISTRICT 4 CADD STANDARDS

LOCATION OF SECTION INDICATED THUS: –

DESIGN DESIGNATION

FUNCTIONAL CLASSIFICATION:	LOCAL ROAD (250-400 ADT)
DESIGN SPEED:	40 MPH
DESIGN TRAFFIC:	375 ADT (2005)

UTILITIES

ELECTRIC OVERHEAD:

AMEREN/CILCO
747 HICKORY DRIVE
LACON, IL 61540

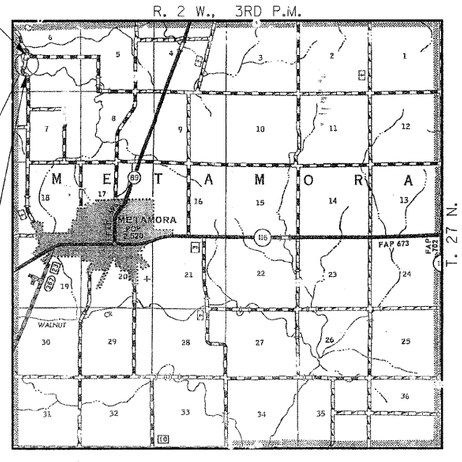
BURIED CABLE:

MTCO
220 N. MENARD ST.
METAMORA, IL 61548-0800
PH. 1-309-367-4197

IMPROVEMENT ENDS STATION 20+00

STA. 14+94
SINGLE SPAN BULB T GIRDER BRIDGE WITH POURED DECK ON INTERGRAL PILE BENT ABUTMENTS
101'-6 1/4" BK-BK.; 30'-0" FC.-FC.; SKEW = 20°
EXISTING STRUCTURE NO. 102-3039
PROPOSED STRUCTURE NO. 102-3210

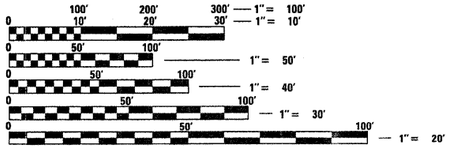
IMPROVEMENT BEGINS STATION 7+25



LOCATION MAP

APPROXIMATE SCALE: 0 1 MILE

NET LENGTH OF SECTION = 1,275 FEET = 0.241 MILES



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.

WARNING

CALL J.U.L.I.E. TOLL FREE 1-800-892-0123

CALL 811 BEFORE YOU DIG

WOODFORD COUNTY HIGHWAY DEPT.

APPROVED 2-3- 2009
TOWNSHIP COMMISSIONER

APPROVED 2/03 20 09
COUNTY ENGINEER

PASSED 02/25 20 09
DISTRICT FOUR ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review 2/26 20 09
DEPUTY DIRECTOR OF HIGHWAYS
REGION THREE ENGINEER
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONTRACT NO. 89448
CATALOG NO. 033338-000

DATE: 2/9/2009

LOUIS P. STAUDER 062-34227 — LICENSED PROFESSIONAL ENGINEER — STATE OF ILLINOIS

EXPIRES: 11/30/2009

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD

PROJECT NUMBER: 07-0373-130 | DATE: 02/02/09

COUNTY WOODFORD SECTION 05-08145-00-BR

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2007," THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.

2. ALL CLEARING AND GRUBBING AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE CONSIDERED INCLUDED IN EARTH EXCAVATION. THE REMOVAL OF THE EXISTING HOT-MIX ASPHALT SURFACE WILL BE PAID FOR AS EARTH EXCAVATION. ALL HOT-MIX ASPHALT MATERIAL SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR IN A METHOD APPROVED BY THE ENGINEER. PROPER DISPOSAL OF HOT-MIX ASPHALT MATERIAL SHALL BE CONSIDERED INCLUDED IN EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

3. THE LOCATION OF EXISTING GAS MAINS, 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 THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.

4. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

5. THE CONTRACTOR SHALL CONSULT THE ENGINEER IN REGARD TO THE EXACT LENGTH OF PIPE CULVERTS AND PIPE DRAINS BEFORE ORDERING THESE ITEMS.

6. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES.

AGGREGATE SURFACE COURSE	2.05 TON/CU YD
POROUS GRANULAR EMBANKMENT	2.00 TON/CU YD
STONE RIPRAP CLASS A4	1.75 TON/CU YD

7. SEEDING CLASS 3 SPECIAL TO BE APPLIED TO ALL SLOPES STEEPER THAN 3:1.
   SEEDING CLASS 3 (SPECIAL) ESTIMATED QUANTITY = 0.27 ACRES

8. THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE R.O.W. AS DIRECTED BY THE ENGINEER.
   SEEDING CLASS 2 (SPECIAL) ESTIMATED QUANTITY = 0.80 ACRES

ENVIRONMENTAL REVIEWS

1. 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.

2. 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.

3. ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

4. 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-D4 P10100
   - COLOR PHOTOGRAPHS DEPICTING THE USE AREA
   - BORROW AREA ENTRY AGREEMENT FORM-D4 P10101

5. PLEASE NOTE THAT A MINIMUM OF TWO WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED ENVIRONMENTAL CLEARANCES.

HIGHWAY STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
542401-01	METAL END SECTION FOR PIPE CULVERTS
630001-08	STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1, (SPECIAL) GUARDRAIL TERMINALS
631011-05	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-07	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701901-01	TRAFFIC CONTROL DEVICES
BLR 21-8	TYPICAL APPLICATION OF TRAFFIC CONTROL; DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 24-2	MAILBOX TURNOUTS

FILE NAME = 070373-sht-notes.dgn	USER NAME =	DESIGNED - L.F.S.	REVISED -
		DRAWN - TWK	REVISED -
	PLOT SCALE =	CHECKED - S.W.M.	REVISED - 02/02/09
	PLOT DATE = 2/2/2009	DATE - 10/17/08	REVISED -

STATE OF ILLINOIS
WOODFORD COUNTY HIGHWAY DEPARTMENT

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

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

GENERAL NOTES AND HIGHWAY STANDARDS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	2
	METAMORA R.D.	CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

	CODE No.	ITEM	UNIT	QUANTITY
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	286
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	18
	20200100	EARTH EXCAVATION	CU YD	2756
	20300100	CHANNEL EXCAVATION	CU YD	580
	20400800	FURNISHED EXCAVATION	CU YD	544
	20700220	POROUS GRANULAR EMBANKMENT	CU YD	240
^	25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.8
^	25001100	SEEDING, CLASS 3 (SPECIAL)	ACRE	0.27
	25100630	EROSION CONTROL BLANKET	SQ YD	1207
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	214
	28000300	TEMPORARY DITCH CHECKS	EACH	45
	28000400	PERIMETER EROSION BARRIER	FOOT	2740
	28000500	INLET AND PIPE PROTECTION	EACH	1
	28100207	STONE RIPRAP, CLASS A4	TON	1033
	28200200	FILTER FABRIC	SQ YD	1610
	40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	2164
	48101200	AGGREGATE SHOULDERS, TYPE B	TON	320
	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
	50200100	STRUCTURE EXCAVATION	CU YD	424
	50300225	CONCRETE STRUCTURES	CU YD	44.6
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	173.7
	50300260	BRIDGE DECK GROOVING	SQ YD	316
	50300280	CONCRETE ENCASEMENT	CU YD	5.2
	50300300	PROTECTIVE COAT	SQ YD	424
	50400735	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BULB T-BEAMS 63"	FOOT	500
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	37450
	51201800	FURNISHING STEEL PILES HP14X73	FOOT	256
	51202305	DRIVING PILES	FOOT	136
	51203800	TEST PILE STEEL HP14X73	EACH	1
	51204650	PILE SHOES	EACH	4
^	51204900	STEEL SHEET PILING	SQ FT	544
	51500100	NAME PLATES	EACH	1
	542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	56

^ - SEE SPECIAL PROVISIONS

SUMMARY OF QUANTITIES

	CODE No.	ITEM	UNIT	QUANTITY
^	54215545	METAL END SECTIONS 10"	EACH	5
^	54215559	METAL END SECTIONS 24"	EACH	2
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	102
	60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	4
	60108900	PIPE UNDERDRAINS, PERFORATED CORRUGATED STEEL PIPE 10"	FOOT	161
^	60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	200
*	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4
*^	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3
	63200310	GUARDRAIL REMOVAL	FOOT	439
^	67100100	MOBILIZATION	L SUM	1
*^	78200405	GUARDRAIL MARKERS	EACH	8
*^	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
	X0301512	GUARDRAIL AGGREGATE EROSION CONTROL	TON	97
^	XX004565	GROUTED RIPRAP	SQ YD	1140
*^	XX005705	STEEL PLATE BEAM GUARD RAIL, SHORT RADIUS, 10'	FOOT	12.5
^	Z0027800	GEOTECHNICAL FABRIC	SQ YD	200
^	Z0065000	SETTING PILES IN ROCK	EACH	5

^ - SEE SPECIAL PROVISIONS

* SPECIALTY ITEMS

FILE NAME = 070373-sht-summary.dgn	USER NAME =	DESIGNED - L.F.S.	REVISED -
		DRAWN - TWK	REVISED -
	PLOT SCALE =	CHECKED - S.W.M.	REVISED - 02/02/09
	PLOT DATE = 2/2/2009	DATE - 10/17/08	REVISED -

STATE OF ILLINOIS
WOODFORD COUNTY HIGHWAY DEPARTMENT

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

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

SUMMARY OF QUANTITIES

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	3
	METAMORA R.D.	CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	F.A.P. AID PROJECT		

GUARDRAIL SCHEDULE

LOCATION	TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL (TANGENT)	TRAFFIC BARRIER TERMINAL TYPE 2	TRAFFIC BARRIER TERMINAL TYPE 6	GUARDRAIL REMOVAL	TERMINAL MARKER DIRECT APPLIED	GUARDRAIL MARKERS	STEEL PLATE BEAM GUARD RAIL SHORT RADIUS 10'
	63100167	63100045	63100085	63200310	78201000	78200405	XX005705
	EACH	EACH	EACH	FOOT	EACH	EACH	FOOT
LT. STA. 13+61.55 TO LT. STA. 14+57.20	1		1	188	1		
RT. STA. 13+50.63 TO RT. STA. 14+46.28	1		1	176	1		
LT. STA. 15+48.72 TO LT. STA. 16+03		1	1	48	1		12.5
RT. STA. 15+37.80 TO RT. STA. 16+33.45	1		1	27	1		
LT. STA. 13+61.55 TO LT. STA. 16+03						4	
RT. STA. 13+50.63 TO RT. STA. 16+33.45						4	
TOTAL	3	1	4	439	4	8	12.5

TREE REMOVAL SCHEDULE

LOCATION			6 TO 15 UNITS DIA.	OVER 15 UNITS DIA.
			UNIT	UNIT
31.609	RT. STA.	9+95.82	10	
31.625	RT. STA.	9+95.82	10	
34.911	RT. STA.	9+98.63	5	
32.579	RT. STA.	12+44.85	10	
32.579	RT. STA.	12+44.85	10	
33.094	RT. STA.	12+50.77	8	
30.106	RT. STA.	12+65.67	15	
41.342	RT. STA.	13+69.60	12	
39.462	RT. STA.	13+89.32	8	
39.238	RT. STA.	13+89.96	8	
41.68	RT. STA.	13+98.12	8	
39.911	LT. STA.	14+05.84	10	
30.851	LT. STA.	14+12.38	12	
47.725	RT. STA.	14+16.36	6	
27.304	LT. STA.	14+20.97	8	
27.728	LT. STA.	14+23.98	8	
44.38	RT. STA.	14+27.34		18
41.729	RT. STA.	14+31.84	14	
19.306	LT. STA.	15+32.59	12	
6.97	LT. STA.	15+47.73	7	
7.71	LT. STA.	15+47.92	8	
7.71	LT. STA.	15+47.92	8	
7.71	LT. STA.	15+47.92	8	
15.926	LT. STA.	15+68.97	6	
15.926	LT. STA.	15+68.97	6	
14.04	LT. STA.	15+95.05	12	
14.145	LT. STA.	15+95.59	10	
19.875	LT. STA.	15+97.76	12	
34.194	LT. STA.	15+99.36	15	
61.805	LT. STA.	16+05.34	8	
51.104	LT. STA.	16+07.26	12	
		TOTAL	286	18

CULVERTS SCHEDULE

LOCATION	TYPE	EXIST SIZE	PIPE CULVERTS, CLASS D TYPE 1 24"	PIPE UNDERDRAINS PER COR S P 10"	GEOTECHNICAL FABRIC	END SECTION METAL 24"	END SECTION METAL 10"
			542D0229	60108900	Z0027800	54215559	54215545
			FOOT	FOOT	SQ YD	EACH	EACH
TR 50							
CL 8+00	AR			34	20		1
CL 9+50	AR			32	20		1
CL 11+00	AR			32	20		1
CL 12+50	AR			32	20		1
CL 14+00	AR			31	20		1
CL 17+67	AR	24" CMP	56			2	
TOTAL			56	161	100	2	5

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	SHRINKAGE FACTOR	PERCENT USED	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE
	20200100	20300100					
	CU.YD.	CU.YD.			CU.YD.	CU.YD.	CU.YD.
TR 50							
STA 7+25.00 TO STA 14+44.24	2638		25.00%	100.00%	1979	749	1230
STA 15+45.75 TO STA 20+00.00	118		25.00%	100.00%	89	1008	-919
ENTRANCES			25.00%	100.00%	0	72	-72
							0
CHANNEL EXCAVATION		580	25.00%	70.00%	305		305
							0
TOTAL	2756	580			2373	1829	544

20400800 FURNISHED EXCAVATION = 544 CU YDS

ROADWAY SCHEDULE

LOCATION	AGGREGATE SURFACE COURSE TYPE B 12"	AGGREGATE SURFACE COURSE TYPE B 6"	AGGREGATE SHOULDERS TYPE B 6"
	40200800		48101200
	TON	TONS	TONS
TR 50			
STA. 7+25 TO STA. 14+44.24	1307		199
STA. 15+45.76 TO STA. 20+00	824		121
ENTRANCES			
LT. STA. 16+13		33	
	2131	33	
TOTAL	2164		320

FILE NAME = 070373-sht-schedule.dgn	USER NAME =	DESIGNED - L.F.S.	REVISED -	
		DRAWN - TWK	REVISED -	
	PLOT SCALE =	CHECKED - S.W.M.	REVISED - 02/02/09	
	PLOT DATE = 2/2/2009	DATE - 10/17/08	REVISED -	

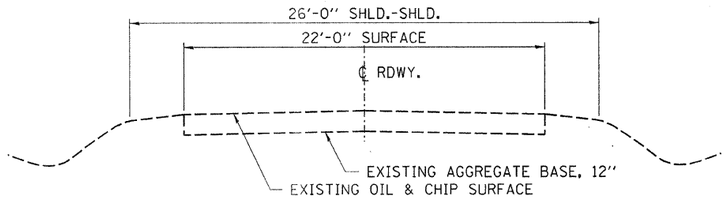
STATE OF ILLINOIS
WOODFORD COUNTY HIGHWAY DEPARTMENT

HLR HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

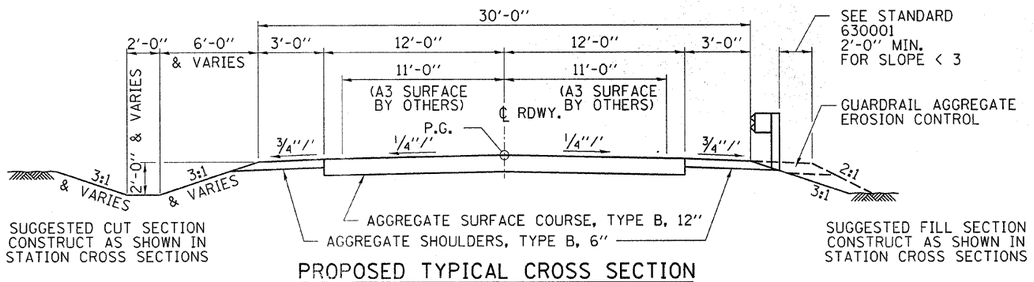
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

SCHEDULE OF QUANTITIES

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	4
	METAMORA R.D.	CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

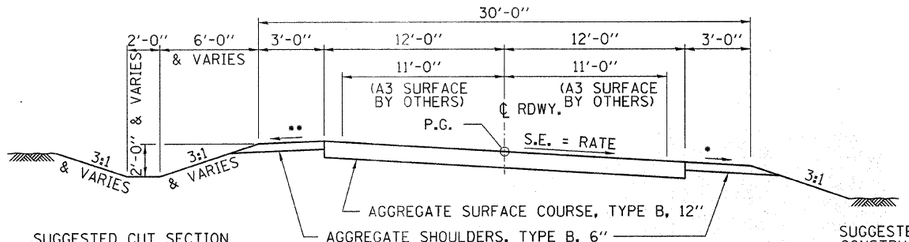


EXISTING TYPICAL CROSS SECTION
STA. 7+25 TO STA. 20+00



PROPOSED TYPICAL CROSS SECTION
STA. 7+25.00 TO STA. 8+81.09••••
STA. 11+09.93 TO STA. 14+14.24
STA. 15+75.76 TO STA. 18+71.21

•••• TRANSITION PAVEMENT AND SHOULDERS TO EXISTING FROM STA. 7+25 TO STA. 7+75

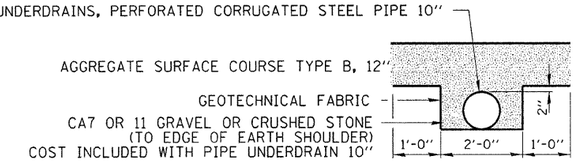


PROPOSED TYPICAL CROSS SECTION
STA. 8+81.09 TO STA. 11+69.93
STA. 18+71.21 TO STA. 20+00.00•••

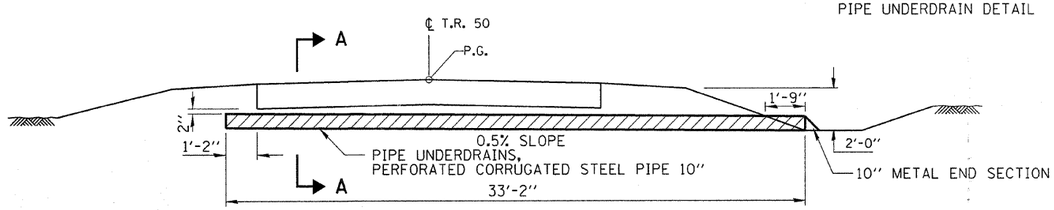
• S.E. SLOPE OR 6% WHICHEVER IS GREATER

•• ALGEBRAIC DIFFERENCE BETWEEN SHOULDER SLOPE AND SUPER ELEVATION RATE NOT TO EXCEED 10% WITH A MAXIMUM SLOPE OF 6%.

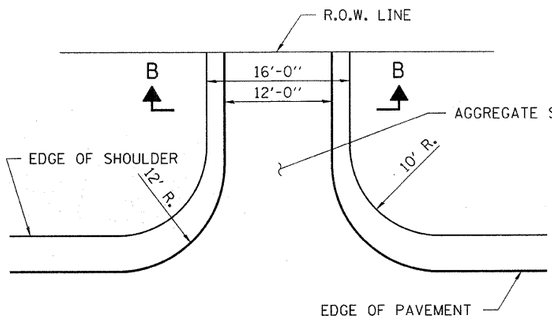
••• TRANSITION PAVEMENT AND SHOULDERS TO EXISTING FROM STA. 19+50 TO STA. 20+00



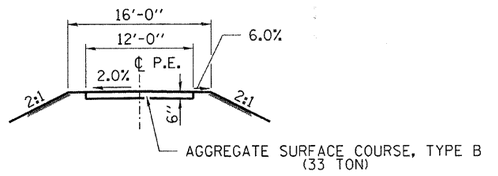
DETAIL A
PIPE UNDERDRAIN DETAIL



PROPOSED TYPICAL PIPE UNDERDRAIN CROSS SECTION



PRIVATE ENTRANCE DETAIL

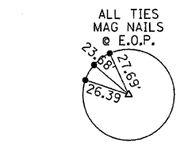


SECTION B-B

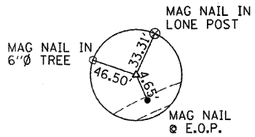
FILE NAME = 070373-sht-typicals.dgn	USER NAME =	DESIGNED - L.F.S.	REVISED -	STATE OF ILLINOIS WOODFORD COUNTY HIGHWAY DEPARTMENT	HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS	TYPICAL SECTIONS AND MISC. DETAILS	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - TWK	REVISED -				50	05-08145-00-BR	WOODFORD	47	5
	PLOT SCALE =	CHECKED - S.W.M.	REVISED -					METAMORA R.D.		CONTRACT NO. 89448	
	PLOT DATE = 2/2/2009	DATE - 10/17/08	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT

DAVID SKINNER, etux
NW¼, SW¼, SEC 6, T. 27 N., R. 2 W., 3RD P.M.

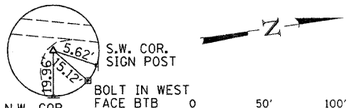
CARL CLANG, etux
NW¼, SW¼, SEC 6, T. 27 N., R. 2 W., 3RD P.M.



C.P. #5
33' RT. STA. 7+74
1/2 "Ø IRON PIN (SET)
N. 1,515,379.77
E. 2,512,861.60



C.P. #1
16' LT. STA. 10+17
1/2 "Ø IRON PIN (SET)
N. 1,515,570.80
E. 2,512,702.51



C.P. #2
29' RT. STA. 20+93
1/2 "Ø IRON PIN (SET)
N. 1,516,631.34
E. 2,512,873.14

STATION 14+94
SINGLE SPAN BULB T GIRDER BRIDGE WITH
POURED DECK ON INTEGRAL PILE BENT ABUTMENTS
101'-6¼" BK-BK; 30'-0" FC.-FC.; SKEW = 20°
PROPOSED STRUCTURE NO. 102-3210

LT. STA. 16+13
CONSTRUCT 12' P.E.

10" PIPE UNDERDRAIN
PROPOSED R.O.W. LINE
10" PIPE UNDERDRAIN
TIMBER
CONSTRUCTION LIMITS
10" PIPE UNDERDRAIN
CONSTRUCTION LIMITS
TIMBER
PROPOSED R.O.W. LINE
PARTRIDGE CREEK
CROPLAND
CROPLAND
+68 F.E.
P.I. STA. 10+31.36
P.T. STA. 11+69.93
P.I. STA. 20+02.66
P.T. STA. 21+33.70
P.T. STA. 18+71.21
1650 N.

CURVE DATA
PI STA. 6+06.93
Δ = 4° 53' 51" (LT)
D = 3° 00' 00"
T = 81.67'
R = 1,909.86'
L = 163.25'
E = 1.75'
PC STA. 5+25.26
PT STA. 6+88.50

℄ PROPOSED IMPROVEMENT

PARTRIDGE POINT ROAD
P.I. STA. 6+06.93
GRASS

IMPROVEMENT BEGINS
STATION 7+25

CURVE DATA
PI STA. 10+31.36
Δ = 38° 59' 37" (RT)
D = 13° 30' 00"
T = 150.27'
R = 424.41'
L = 288.84'
E = 25.82'
PC STA. 8+81.09
PT STA. 11+69.93
S.E. = 4.0%
S.E. TRANSITIONS:
STA. 8+01.23 TO STA. 9+07.71
STA. 11+43.31 TO STA. 12+49.79

RT. STA. 13+88.81
ADJUST INSPECTION WELL.
COST TO BE INCLUDED WITH
EARTH EXCAVATION.
ELEV. 652.00

RT. STA. 16+30
CONSTRUCT MB TURNOUT

STATION 17+67
PIPE CULVERTS, CLASS D, TYPE I, 24"
LENGTH = 56 FOOT
29.9' LT. STA. 17+64.8 D.S.F.L. = 625.8
32.7' RT. STA. 17+69.4 U.S.F.L. = 626.8
EXISTING CMP & HEADWALL TO BE REMOVED

F.E. RT. STA. 15+16
TO BE RELOCATED
BY OTHERS

IMPROVEMENT ENDS
STATION 20+00

CURVE DATA
PI STA. 20+02.66
Δ = 7° 52' 29" (RT)
D = 3° 00' 00"
T = 131.45'
R = 1,909.86'
L = 262.49'
E = 4.52'
PC STA. 18+71.21
PT STA. 21+33.70
S.E. = 2.5%
S.E. TRANSITIONS:
STA. 18+11.60 TO STA. 18+91.08
STA. 19+50.00 TO STA. 20+00.00

STATION	NORTHING	EASTING
P.O.T. 4+64.85	1,515,084.7769	2,512,992.9957
P.C. 5+25.26	1,515,138.5055	2,512,965.3877
P.I. 6+06.93	1,515,211.1494	2,512,928.0603
P.T. 6+88.50	1,515,280.3414	2,512,884.6674
P.C. 8+81.09	1,515,443.4967	2,512,782.3467
P.I. 10+31.36	1,515,570.8000	2,512,702.5100
P.T. 11+69.93	1,515,719.9781	2,512,720.5635
P.C. 18+71.21	1,516,416.1771	2,512,804.8176
P.I. 20.02.66	1,516,546.6765	2,512,820.6107
P.T. 21+33.70	1,516,673.7814	2,512,854.1341
P.O.T. 21+89.43	1,516,727.6661	2,512,868.3459

INDICATES TEMPORARY CONSTRUCTION EASEMENT

DELOSS W. SCHWENK
NE¼, SW¼, SEC 6, T. 27 N., R. 2 W., 3RD P.M.

EXISTING STRUCTURE NO. 102-3039
STATION 14+90 - SINGLE SPAN STEEL I-BEAM BRIDGE WITH CAST IN PLACE CONC. DECK ON CLOSED CONCRETE ABUTMENTS AND WINGWALLS.
38.7' FC.-FC. ABUTS; 25.1' o.-o. DECK

FILE NAME = 070373-sht-ppl_Alt1B.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -
		DRAWN - D.T.M.	REVISED -
	PLOT SCALE =	CHECKED - S.W.M.	REVISED - 02/02/09
	PLOT DATE = 2/2/2009	DATE - 01/28/08	REVISED -

STATE OF ILLINOIS
WOODFORD COUNTY HIGHWAY DEPARTMENT

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

SCALE: | SHEET NO. 1 OF 2 SHEETS

PLAN VIEW
COAL BANK ROAD

STA. 7+00.00 TO STA. 21+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	6
	METAMORA R.D.	CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BM#1 - CHISELED "□" ON CONCRETE SIGN BASE
63' LT., STA. 6+75
ELEV. 717.82

BM#2 - RAILROAD SPIKE IN PAVEMENT
11' RT., STA. 11+14
ELEV. 686.92

BM#3 - CHISELED "□" ON EAST CURB
39' RT., STA. 14+82
ELEV. 639.92

BM#4 - MAG NAIL IN POWERPOLE
34' LT., STA. 20+30
ELEV. 628.99

CHANNEL EXCAVATION

THE CHANNEL SHALL BE EXCAVATED AS SHOWN IN THE PLANS WITH 2:1 SIDE SLOPES WITHIN THE LIMITS OF THE PROPOSED STRUCTURE, THEN TAPER TO THE EXISTING CHANNEL AT THE R.O.W. LINES. ONLY SUITABLE EXCAVATED MATERIAL SHALL BE USED IN THE EMBANKMENT.

BEGIN CONSTRUCTION STA. 7+25

VPI STA. 9+00
ELEV. 716.00

K = 30
350' V.C.

-2.49%
-14.00%
-12.57%
-13.50%
-12.22%
-13.00%
-14.00%
-20.00%
-22.00%
0.24%

704.00 RT.
678.50 RT.
665.00 RT.
636.00 LT.
625.00 RT.

EXISTING ℄ GRADE
647.00 LT.
653.50 LT.
659.65 LT.
SP. DITCH LT.

BK. ABUTMENT
ELEV. 648.31

VPI STA. 15+00
ELEV. 632.00

BK. ABUTMENT
ELEV. 641.03

K = 51
700' V.C.

100 YEAR H.W. ELEV. 629.4
20 YEAR H.W. ELEV. 628.0

PROPOSED ℄ GRADE

END CONSTRUCTION STA. 20+00

CHANNEL EXCAVATION

GROUTED RIPRAP

℄ ELEV. 619.0

•2:1 @ RT & LT'S

	7+00	8+00	9+00	10+00	11+00	12+00	13+00	14+00	15+00	16+00	17+00	18+00	19+00	20+00	21+00
EXISTING ELEVATION:	720.85	719.84	718.43	716.19	713.00	708.41	702.33	695.84	689.38	682.65	676.28	669.03	661.93	655.31	648.55	642.37	636.21	634.08	632.14	631.67	630.87	630.71	630.85	630.99	630.88	630.79	630.60	629.72	628.93
PROPOSED (TANGENT) ELEVATION:		719.63	717.56	714.67	710.96	706.43	701.07	694.90	688.00	681.00	674.25	667.98	662.21	656.93	652.14	647.85	644.04	640.73	637.90	635.57	633.73	632.38	631.53	631.16	631.04	630.92	630.80			

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
GRADES CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
ALIGNMENT CHECKED
STRUCTURE NO(S).
NO.
BY
DATE

FILE NAME = 070373-sht-pp2_AltB.dgn	USER NAME =	DESIGNED - L.F.S.	REVISED -	
		DRAWN - TWK	REVISED -	
	PLOT SCALE =	CHECKED - S.W.M.	REVISED - 02/02/09	
	PLOT DATE = 2/2/2009	DATE - 10/31/08	REVISED -	

STATE OF ILLINOIS
WOODFORD COUNTY HIGHWAY DEPARTMENT

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

SCALE: 10:50 | SHEET NO. 2 OF 2 SHEETS

ROADWAY PROFILE
COAL BANK ROAD

STA. 7+00.00 TO STA. 21+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	7
	METAMORA R.D.	CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EROSION CONTROL PLAN
& STORMWATER POLLUTION PREVENTION PLAN

AN NPDES STORMWATER PERMIT WILL BE REQUIRED FOR THIS PROJECT.

SEEDING TABLE			
LOCATION	CLASS 2 SPECIAL	CLASS 3 SPECIAL	TEMP EROSION CONTROL SEEDING
			100 LBS/ ACRE/APPL.
	25001000	25001100	
	ACRE	ACRE	POUND*
TR 50			
LT. STA. 7+25 TO STA. 14+50	0.30	0.04	68
RT. STA. 7+25 TO STA. 14+50	0.13	0.12	50
LT. STA. 15+40 TO STA. 20+00	0.18	0.07	50
RT. STA. 15+40 TO STA. 20+00	0.19	0.04	46
TOTAL PROJECT	0.80	0.27	214

* 2 APPL @ 100LBS/ACRE

STONE RIPRAP CLASS A4				
LOCATION	WIDTH (1)	LENGTH	STONE RIPRAP CLASS A4	FILTER FABRIC
			28100207	28200200
	LIN FT	LIN FT	TON	SQ YD
TR 50				
RT. STA. 8+50 TO RT. STA. 12+50	14.6	400	503	812
RT. STA. 12+50 TO RT. STA. 13+00	12.8	50	55	91
LT. STA. 12+50 TO LT. STA. 13+00	14.6	50	63	101
RT. STA. 13+00 TO RT. STA. 14+14	11	114	108	186
LT. STA. 13+00 TO LT. STA. 13+50	12.8	50	55	91
LT. STA. 13+50 TO LT. STA. 14+33.4	11	83.4	79	136
RT. STA. 14+75 TO LT. STA. 15+25	36	26	100	104
RT. STA. 15+28 TO RT. STA. 15+56	28	20	49	62
LT. STA. 15+50 TO RT. STA. 15+67	22	11	21	27
TOTAL			1033	1610

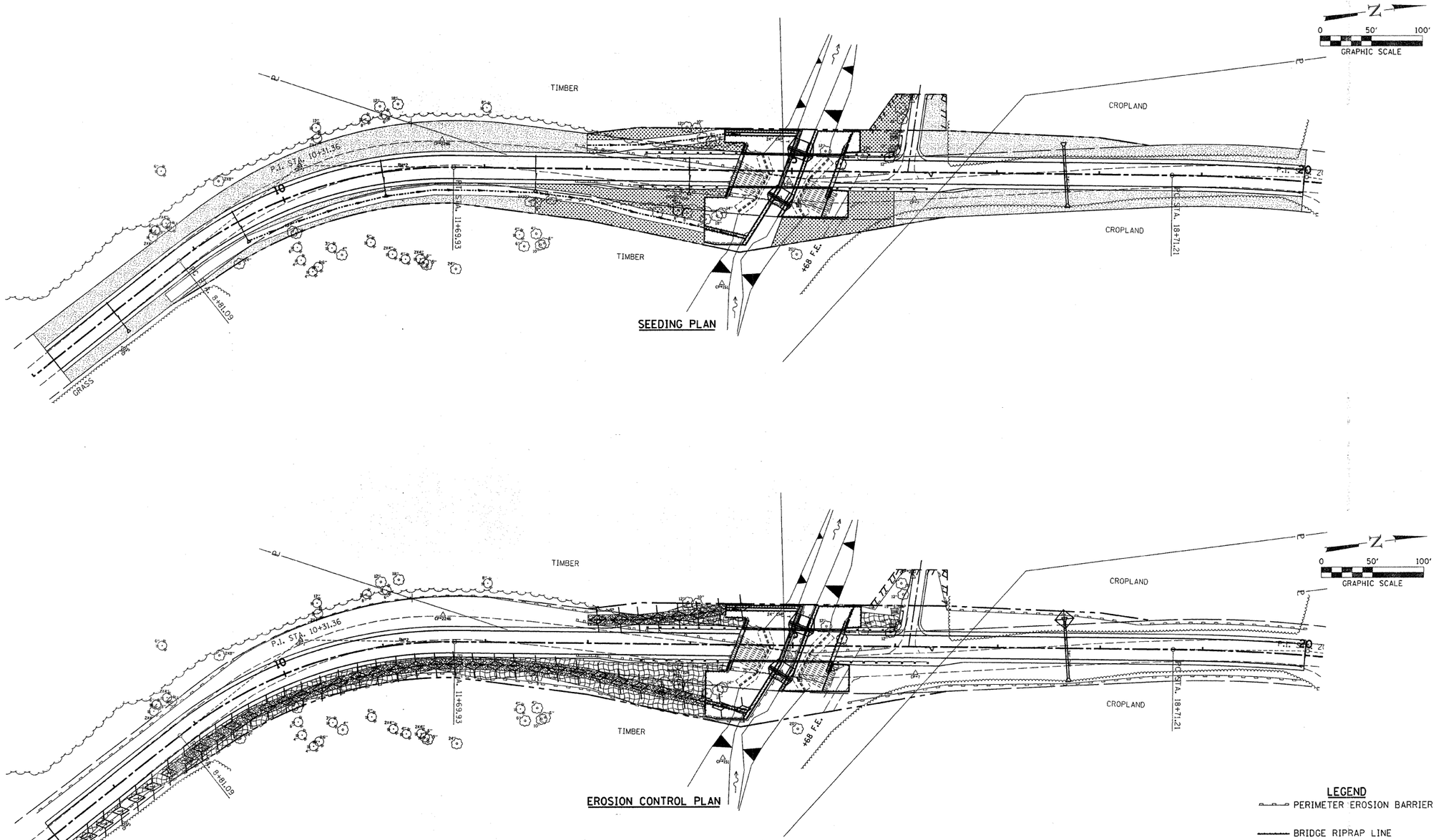
GENERAL NOTES FOR SOIL EROSION CONTROL

1. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
2. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL ALSO TAKE SPECIAL NOTE TO THE CONTRACT SPECIAL PROVISION "EROSION CONTROL PLAN". ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER. ALL MEASURES SHALL BE IN PLACE WITHIN 4 DAYS OF DISTURBANCE.
3. ALL TEMPORARY EROSION CONTROL MEASURES MUST BE MAINTAINED AND IMMEDIATELY REPLACED AS NEEDED AND AS DIRECTED BY THE ENGINEER. THE COUNTY WILL BE RESPONSIBLE FOR ALL INSPECTIONS. THE CONTRACTOR SHALL COMPLETE MAINTENANCE OF ALL ITEMS A MINIMUM OF EVERY 7 DAYS AND WITHIN 24 HOURS OF A ONE-HALF INCH RAINFALL. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SEEDING IS ACHIEVED.
4. PERIMETER EROSION BARRIER SHALL BE INSTALLED AT LOCATIONS SPECIFIED IN THE PLANS AT 5 FEET OUTSIDE THE TOE OF SLOPE OR INSIDE THE RIGHT-OF-WAY WHICHEVER IS CLOSER TO THE CENTERLINE, OR AS DIRECTED BY THE ENGINEER PRIOR TO THE START OF ANY EARTHWORK, CULVERT, OR STORM SEWER CONSTRUCTION. STAKES SHALL BE PLACED AT A MINIMUM OF 5 FOOT INTERVALS. SEE STD. 280001
5. THE PERIMETER EROSION BARRIER SHALL BE REMOVED WITHIN 30 DAYS AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH VEGETATION. AFTER THE PERIMETER EROSION BARRIER IS REMOVED, ALL AREAS DAMAGED BY THE FENCE INSTALLATION SHALL BE RESTORED BY THE CONTRACTOR.
6. THE FENCE INSTALLATION, MAINTENANCE, REMOVAL AND THE RESTORATION OF THE AREA DISTURBED BY THE FENCE INSTALLATION IS INCLUDED IN COST OF THE PAY ITEM PERIMETER EROSION BARRIER.
7. TEMPORARY DITCH CHECKS SHALL BE CONSTRUCTED AS PER CONTRACT SPECIAL PROVISIONS AND AS SHOWN HEREON OR AS DIRECTED BY THE ENGINEER. THE DITCH CHECKS SHALL BE INSTALLED IMMEDIATELY AS GRADING PROGRESSES THROUGH THE PROJECT. THE PAY ITEM FOR TEMPORARY DITCH CHECK SHALL INCLUDE THE COST OF INSTALLATION, MAINTENANCE AND REMOVAL. ONLY AGGREGATE DITCH CHECKS SHALL BE USED. SEE STD. 280001
8. REMOVAL OF TRAPPED SEDIMENT SHALL BE INCLUDED IN THE PRICE OF THE EROSION CONTROL ITEM. SEDIMENT SHALL BE REMOVED WHEN SILTATION REACHES 50% CAPACITY OF STRUCTURE. SEE APPLICABLE STANDARDS, SPECIFICATIONS, AND CONTRACT SPECIAL PROVISIONS.
9. THE CONTRACTOR SHALL CLEAN UP AND GRADE THE WORK AREA AS THE PROJECT PROGRESSES TO ELIMINATE THE CONCENTRATION OF RUNOFF. THE PAVEMENT SHALL BE CLEANED DAILY TO REMOVE EARTH MATERIAL TO THE SATISFACTION OF THE ENGINEER.
10. THE CONTRACTOR SHALL CONTACT THE COUNTY HIGHWAY DEPARTMENT AS SOON AS INITIAL EROSION CONTROL PRACTICES ARE INSTALLED.
11. TEMPORARY SEEDING SHALL BE COMPLETED ACCORDING TO THE ITEM TEMPORARY EROSION CONTROL SEEDING ON ALL AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH CONSTRUCTION WILL BE STOPPED FOR A PERIOD OF MORE THAN 15 WORKING DAYS.
12. THE COST OF ALL REQUIRED TEMPORARY SEEDING SHALL BE PAID FOR AS PER THE ITEM TEMPORARY EROSION CONTROL SEEDING.
13. ALL DISTURBED AREAS SHALL BE SEEDED AS DIRECTED BY THE ENGINEER. FINAL SEEDING SHALL CONFORM TO SEEDING CLASS 2 (SPECIAL) AS PER IDOT STANDARD SPECIFICATIONS AND CONTRACT SPECIAL PROVISIONS.
14. THE CONTRACTOR SHALL MAINTAIN AND PRESERVE ANY EXISTING SUB SURFACE DRAINAGE SYSTEMS (i.e. FIELD TILES) ACCORDING TO SECTION 611 OF THE IDOT STANDARD SPECIFICATIONS.
15. SEEDING CLASS 3 (SPECIAL) WILL BE USED ON ALL SLOPES GREATER THAN 3:1.

TEMPORARY DITCH CHECKS		TEMPORARY DITCH CHECKS		TEMPORARY DITCH CHECKS	
LOCATION	TEMPORARY DITCH CHECKS	LOCATION	TEMPORARY DITCH CHECKS	LOCATION	TEMPORARY DITCH CHECKS
	EACH		EACH		EACH
TR 50		TR 50		TR 50	
RT. STA. 7+25	1	RT. STA. 10+50	1	LT. STA. 13+30	1
RT. STA. 7+50	1	RT. STA. 10+70	1	RT. STA. 13+50	1
RT. STA. 7+70	1	RT. STA. 10+90	1	LT. STA. 13+50	1
RT. STA. 7+90	1	RT. STA. 11+10	1	RT. STA. 13+70	1
RT. STA. 8+10	1	RT. STA. 11+30	1	LT. STA. 13+70	1
RT. STA. 8+20	1	RT. STA. 11+50	1	RT. STA. 13+90	1
RT. STA. 8+50	1	RT. STA. 11+70	1	LT. STA. 13+90	1
RT. STA. 8+70	1	RT. STA. 11+90	1	RT. STA. 14+10	1
RT. STA. 8+90	1	RT. STA. 12+10	1	LT. STA. 14+10	1
RT. STA. 9+10	1	RT. STA. 12+30	1	RT. STA. 14+30	1
RT. STA. 9+30	1	RT. STA. 12+50	1	LT. STA. 14+30	1
RT. STA. 9+50	1	RT. STA. 12+70	1	RT. STA. 14+50	1
RT. STA. 9+70	1	RT. STA. 12+90	1	LT. STA. 14+50	1
RT. STA. 9+90	1	RT. STA. 13+10	1	TOTAL	45
RT. STA. 10+10	1	LT. STA. 13+10	1		
RT. STA. 10+30	1	RT. STA. 13+30	1		

EROSION CONTROL				
LOCATION	INLET AND PIPE PROTECTION	PERIMETER EROSION BARRIER	EROSION CONTROL BLANKET	GUARDRAIL AGGREGATE EROSION CONTROL
	28000500	28000400	25100630	X0301512
	EACH	FOOT	SQ YD	TON
TR 50				
LT. STA. 7+25 TO LT. STA. 15+10		785		
RT. STA. 7+25 TO RT. STA. 14+55		730		
RT. STA. 7+25 TO RT. STA. 14+36			925	
LT. STA. 13+00 TO LT. STA. 14+50			133	
RT. STA. 13+16.63 TO RT. STA. 14+43.78				27
LT. STA. 13+27.55 TO LT. STA. 14+54.70				27
RT. STA. 14+55 TO LT. STA. 15+10		135		
RT. STA. 14+90 TO LT. STA. 15+20		130		
RT. STA. 15+40.30 TO RT. STA. 16+67.45				27
RT. STA. 15+40 TO RT. STA. 16+00			17	
LT. STA. 15+50 TO LT. STA. 16+25			132	
LT. STA. 15+50 TO LT. STA. 16+00		110		
RT. STA. 15+50 TO RT. STA. 20+00		450		
LT. STA. 15+51.22 TO LT. STA. 16+03				16
LT. STA. 16+30 TO LT. STA. 20+00		400		
RT. STA. 17+67	1			
TOTAL	1	2740	1207	97

FILE NAME = 070373-sht-erosion_Alt1B.dgn	USER NAME =	DESIGNED - L.F.S.	REVISED -	STATE OF ILLINOIS WOODFORD COUNTY HIGHWAY DEPARTMENT	HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS	EROSION CONTROL COAL BANK ROAD	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - TWK	REVISED -				50	05-08145-00-BR	WOODFORD	47	8
	PLOT SCALE =	CHECKED - S.W.M.	REVISED - 02/02/09					METAMORA R.D.	CONTRACT NO. 89448		
	PLOT DATE = 2/2/2009	DATE - 10/17/08	REVISED -		SCALE:	SHEET NO. 1 OF 2 SHEETS	STA. 7+00.00 TO STA. 21+00.00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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		DRAWN - TWK	REVISED -
	PLOT SCALE =	CHECKED - S.W.M.	REVISED - 02/02/09
	PLOT DATE = 2/2/2009	DATE - 10/17/08	REVISED -

STATE OF ILLINOIS
WOODFORD COUNTY HIGHWAY DEPARTMENT

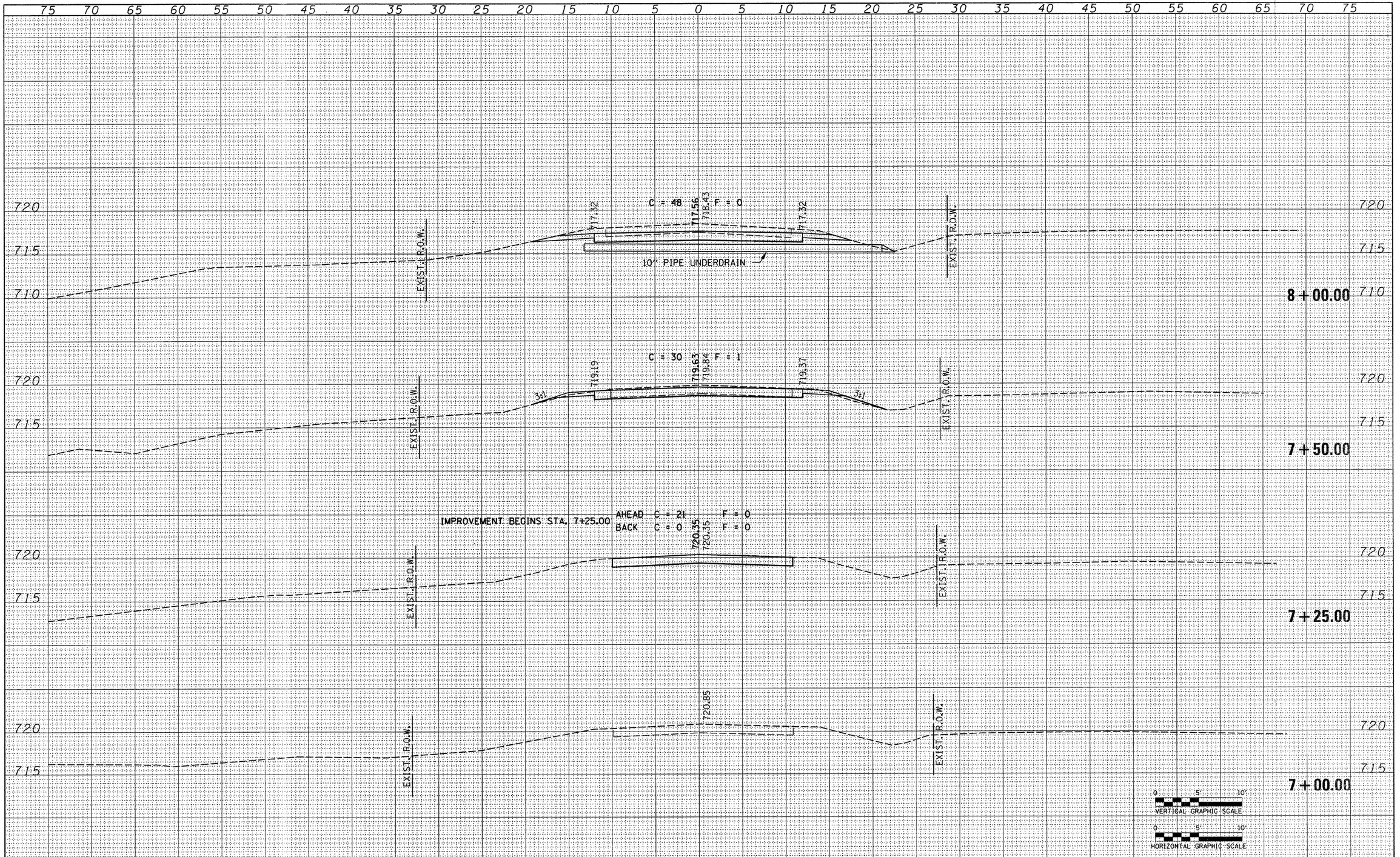
HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

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

EROSION CONTROL
COAL BANK ROAD

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	9
	METAMORA R.D.	CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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



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

FILE NAME = 070373-sht-sxs.A1&B.dgn	USER NAME =	DESIGNED - L.F.S.	REVISED -
		DRAWN - TWK	REVISED -
	PLOT SCALE =	CHECKED - S.W.M.	REVISED - 02/02/09
	PLOT DATE = 2/2/2009	DATE -	REVISED -

STATE OF ILLINOIS
WOODFORD COUNTY HIGHWAY DEPARTMENT

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

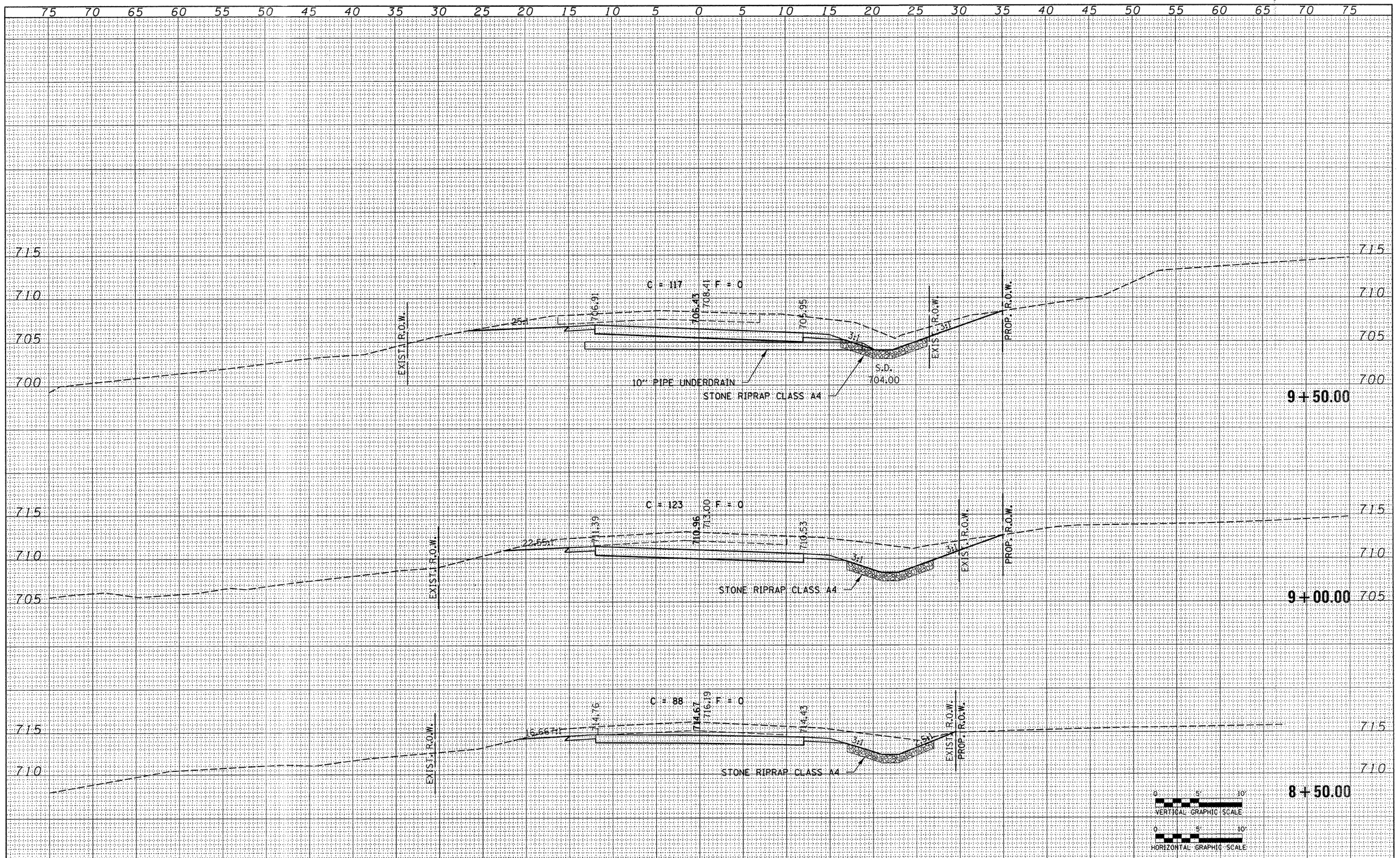
SCALE: | SHEET NO. OF SHEETS

CROSS SECTIONS
COAL BANK ROAD

STA. 7+00.00 TO STA. 8+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	10
	METAMORA R.D.	CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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



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

FILE NAME = 070373-sht-sxs.AltB.dgn	USER NAME =	DESIGNED - L.F.S.	REVISED -
		DRAWN - TWK	REVISED -
	PLOT SCALE =	CHECKED - S.W.M.	REVISED - 02/02/09
	PLOT DATE = 2/2/2009	DATE - 10/31/08	REVISED -

STATE OF ILLINOIS
WOODFORD COUNTY HIGHWAY DEPARTMENT

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

SCALE: | SHEET NO. OF SHEETS

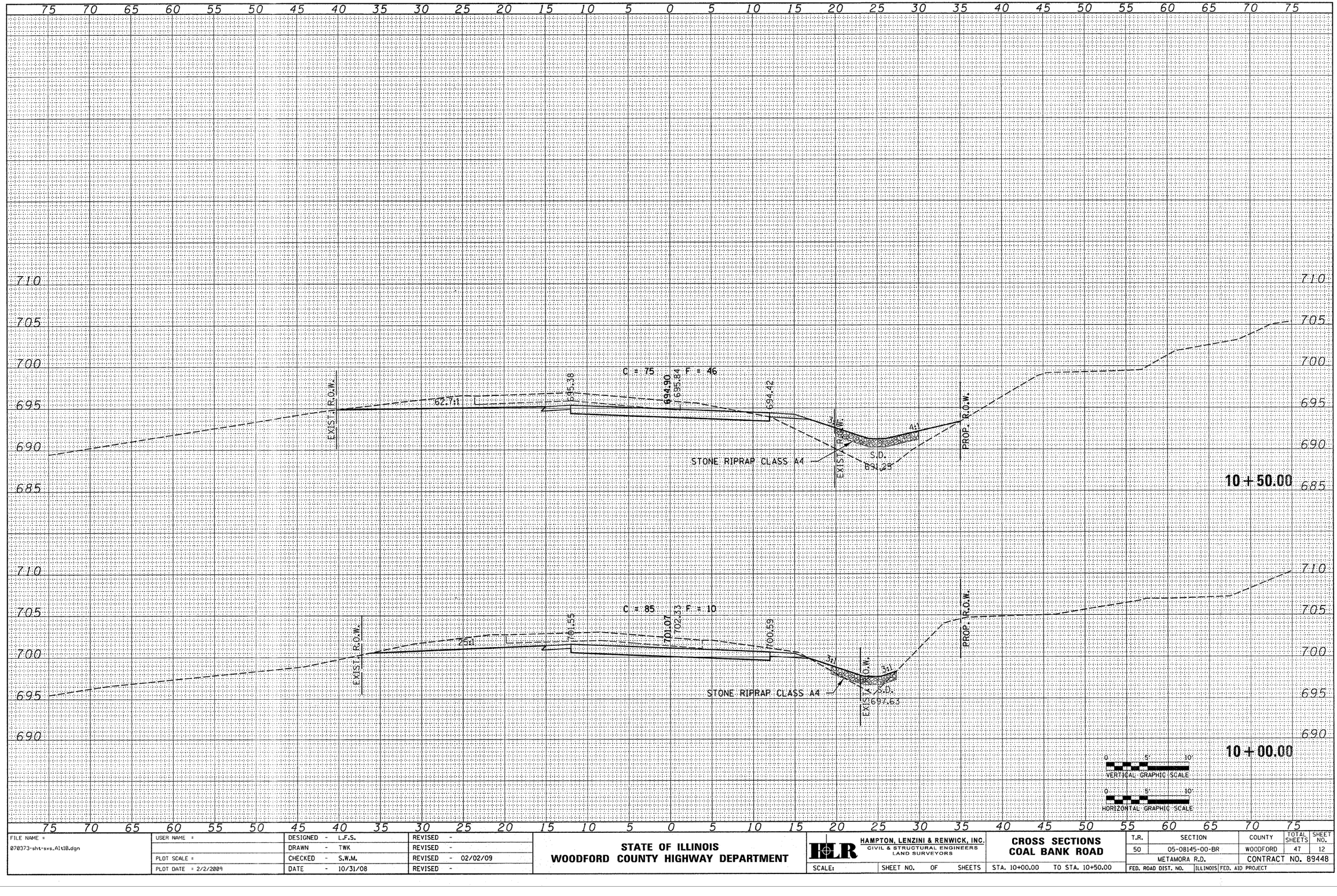
CROSS SECTIONS
COAL BANK ROAD

STA. 8+50.00 TO STA. 9+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	11
	METAMORA R.D.	CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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	PLOT SCALE =	CHECKED - S.W.M.	REVISED - 02/02/09
	PLOT DATE = 2/2/2009	DATE - 10/31/08	REVISED -

STATE OF ILLINOIS
WOODFORD COUNTY HIGHWAY DEPARTMENT

HLR HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

SCALE: | SHEET NO. OF SHEETS

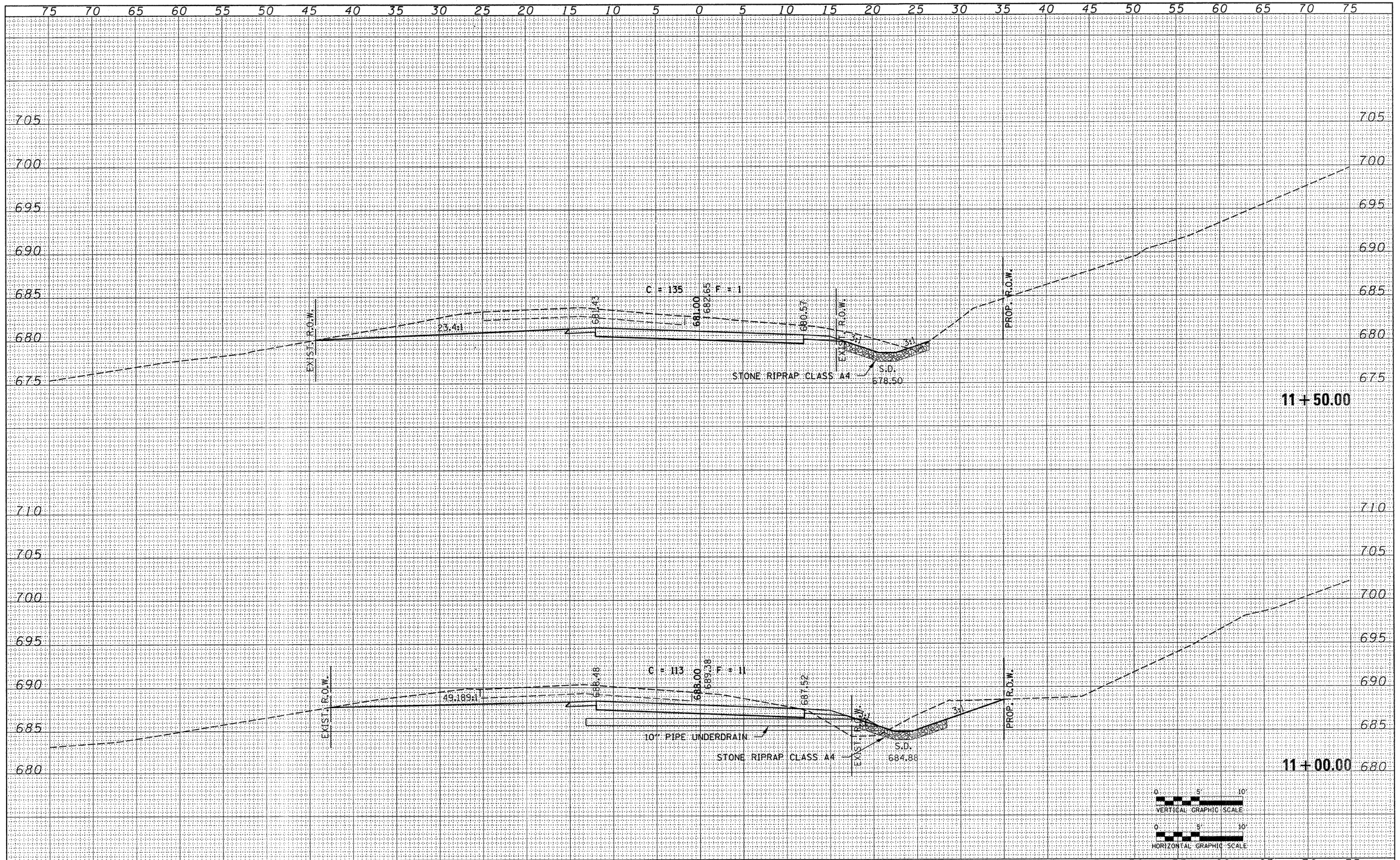
CROSS SECTIONS
COAL BANK ROAD

STA. 10+00.00 TO STA. 10+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	12
	METAMORA R.D.	CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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	PLOT DATE = 2/2/2009	DATE - 10/31/08	REVISED -

STATE OF ILLINOIS
WOODFORD COUNTY HIGHWAY DEPARTMENT

HLR HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

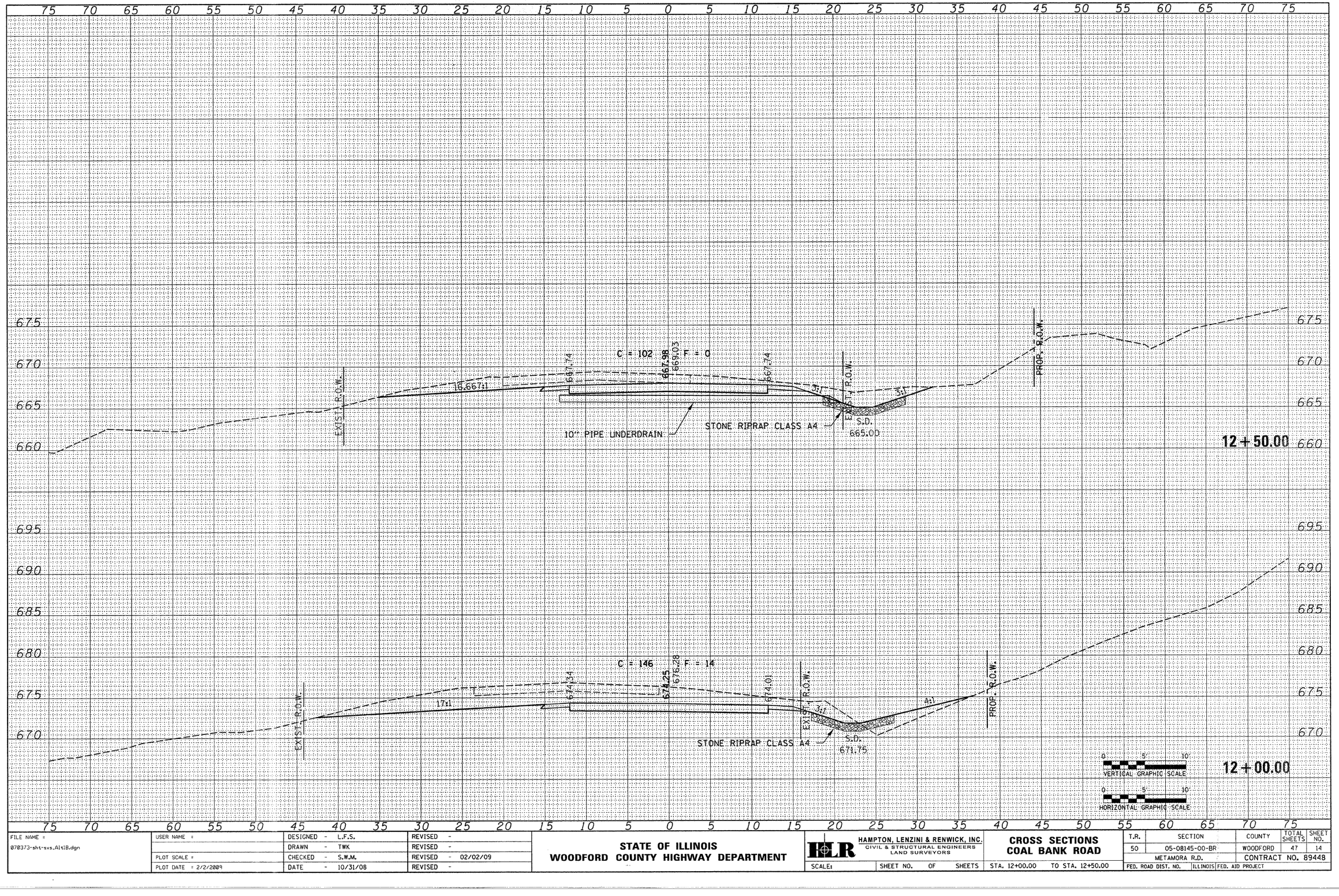
SCALE: | SHEET NO. OF SHEETS | STA. 11+00.00 TO STA. 11+50.00

CROSS SECTIONS
COAL BANK ROAD

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	13
	METAMORA R.D.	CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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		DRAWN - TWK	REVISED -
	PLOT SCALE =	CHECKED - S.W.M.	REVISED - 02/02/09
	PLOT DATE = 2/2/2009	DATE - 10/31/08	REVISED -

STATE OF ILLINOIS
WOODFORD COUNTY HIGHWAY DEPARTMENT

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

SCALE: | SHEET NO. OF SHEETS

CROSS SECTIONS
COAL BANK ROAD

STA. 12+00.00 TO STA. 12+50.00

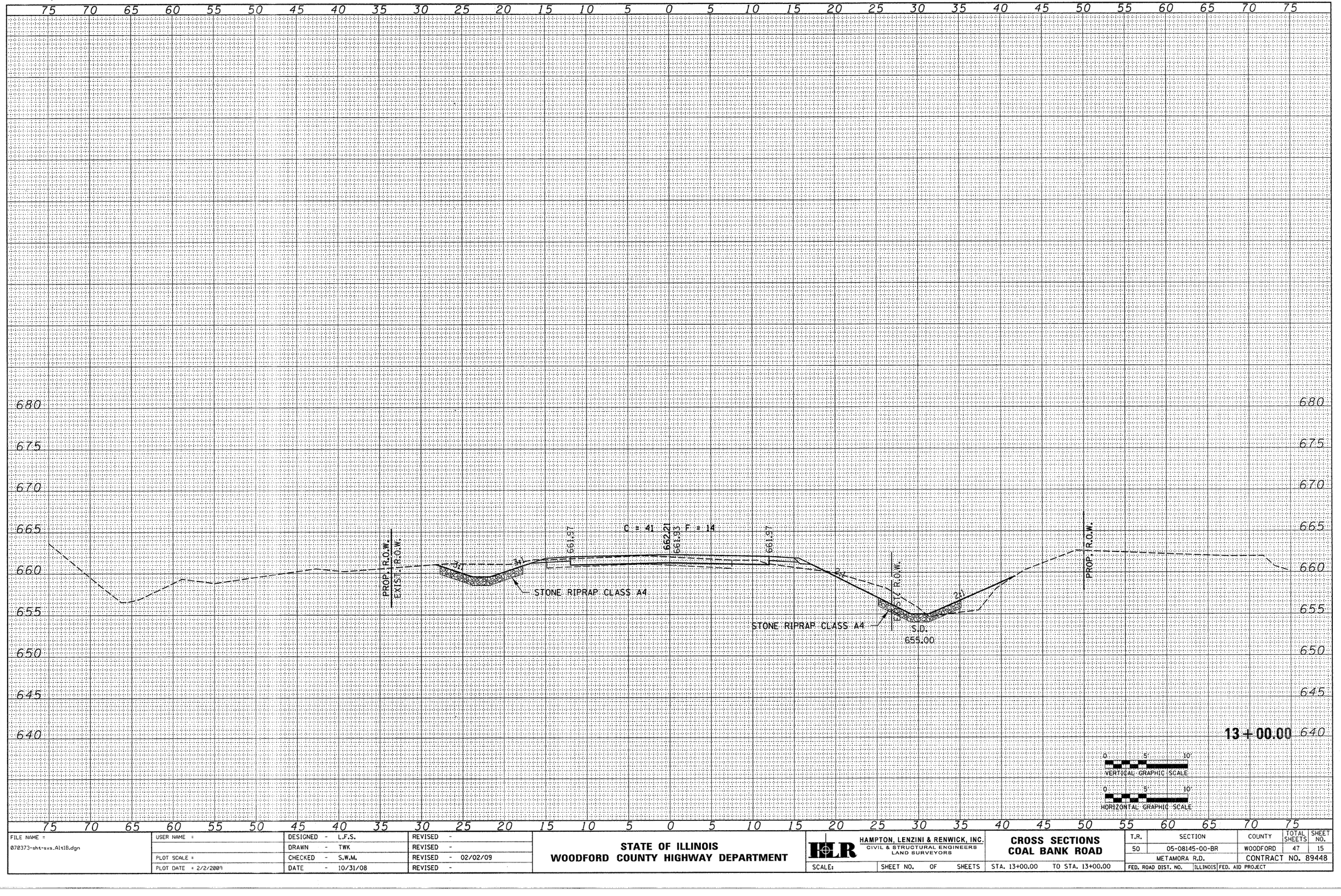
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	14
	METAMORA R.D.	CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

BY	DATE

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

BY	DATE



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		DRAWN - TWK	REVISED -		
	PLOT SCALE =	CHECKED - S.W.M.	REVISED - 02/02/09		
	PLOT DATE = 2/2/2009	DATE - 10/31/08	REVISED -		SCALE: SHEET NO. OF SHEETS

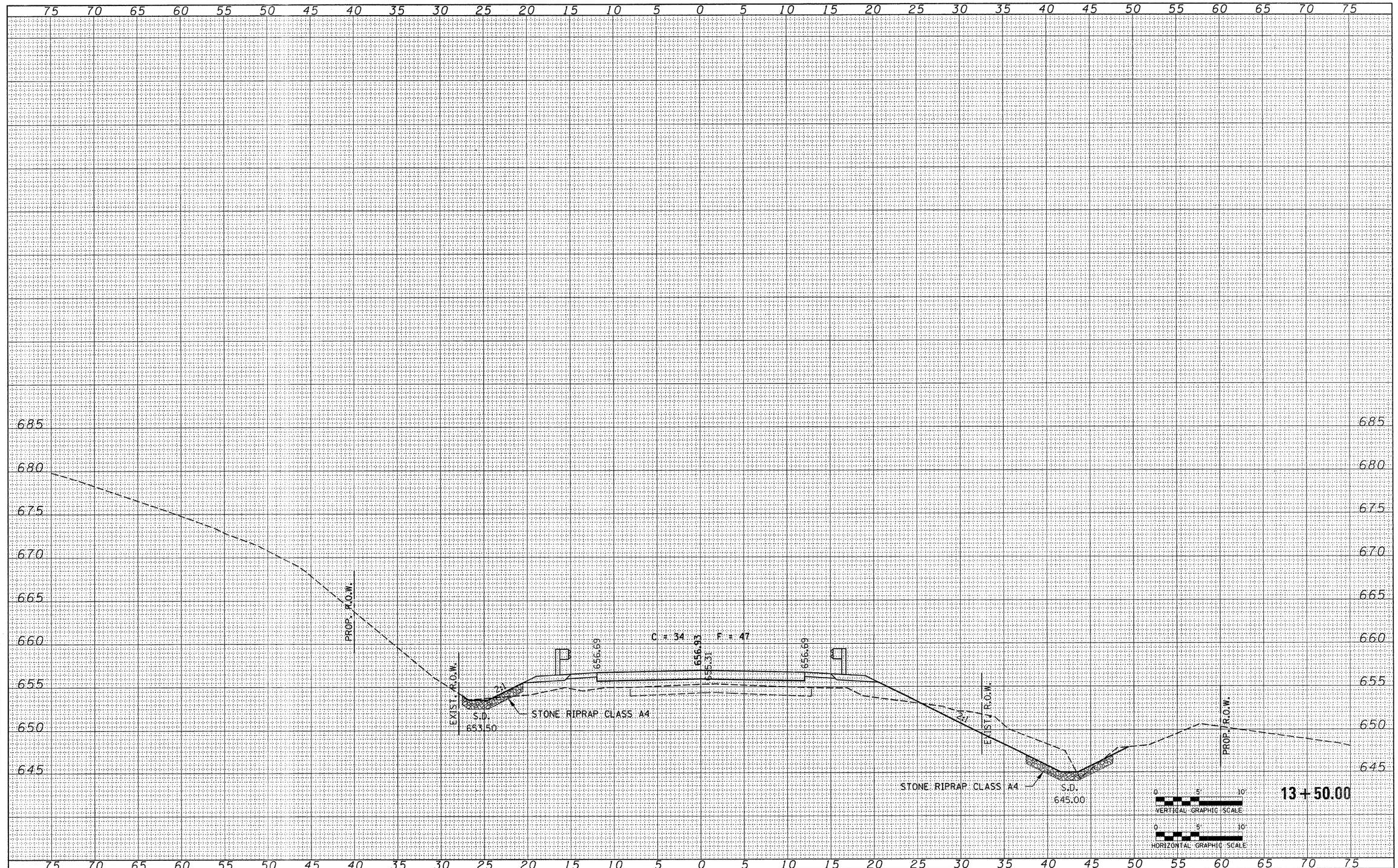
CROSS SECTIONS
COAL BANK ROAD

STA. 13+00.00 TO STA. 13+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	15
	METAMORA R.D.	CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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	PLOT SCALE =	CHECKED - S.W.M.	REVISED - 02/02/09
	PLOT DATE = 2/2/2009	DATE - 10/31/08	REVISED -

STATE OF ILLINOIS
WOODFORD COUNTY HIGHWAY DEPARTMENT

HLR HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

SCALE: SHEET NO. OF SHEETS

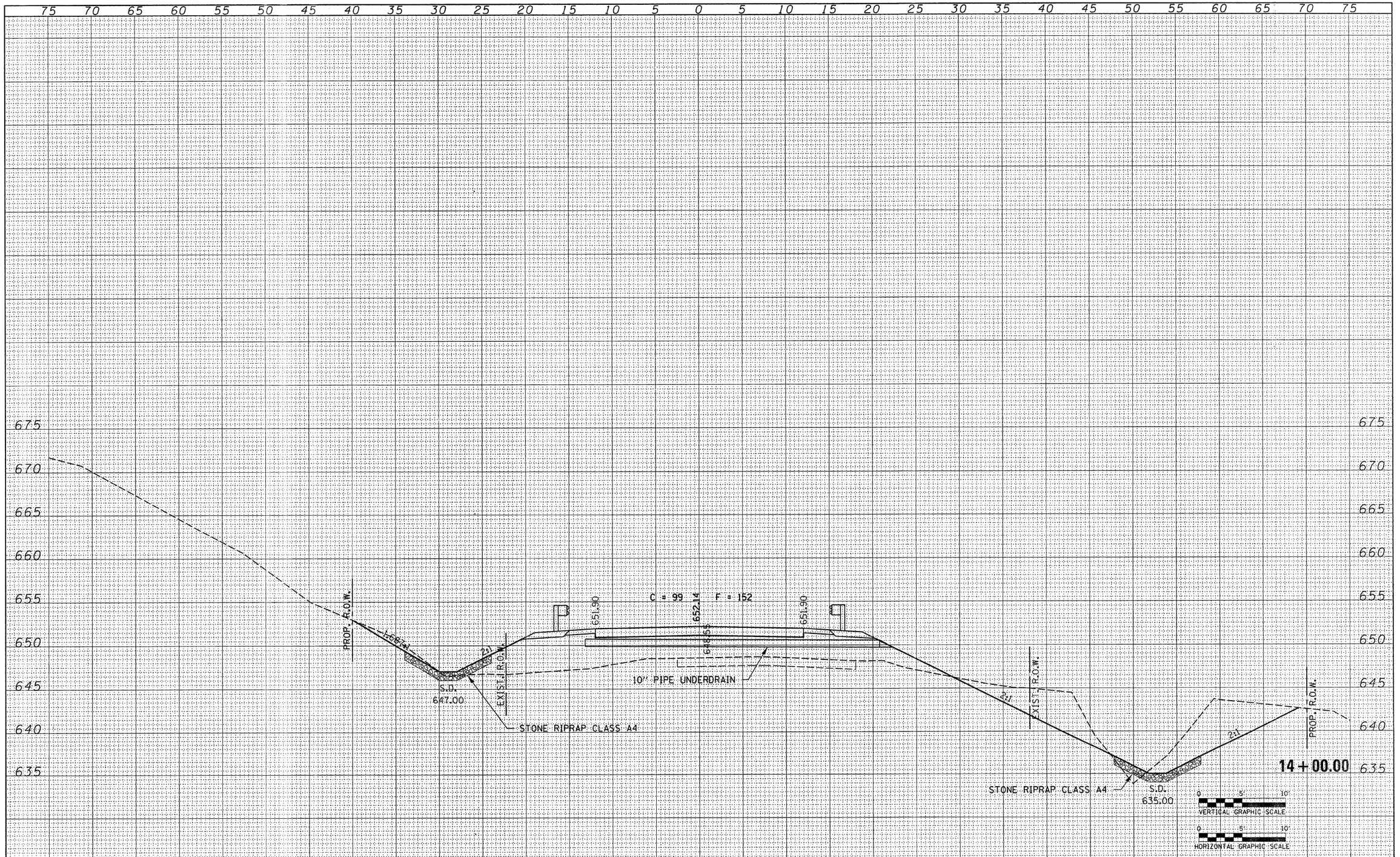
CROSS SECTIONS
COAL BANK ROAD

STA. 13+50.00 TO STA. 13+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	16
	METAMORA R.D.		CONTRACT NO. 89448	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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	PLOT SCALE =	CHECKED - S.W.M.	REVISED - 02/02/09
	PLOT DATE = 2/2/2009	DATE - 10/31/08	REVISED -

STATE OF ILLINOIS
WOODFORD COUNTY HIGHWAY DEPARTMENT

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

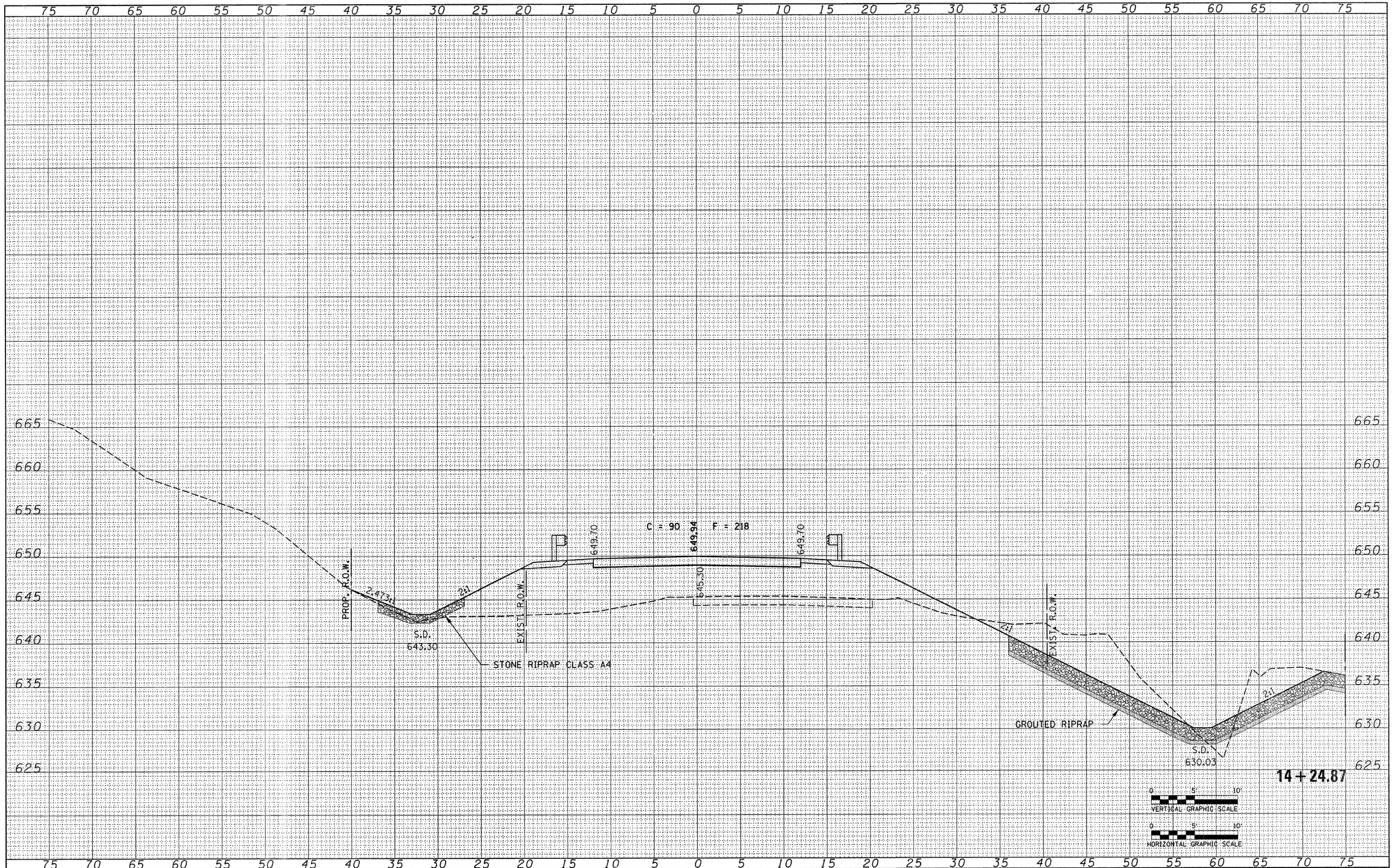
SCALE: | SHEET NO. OF SHEETS | STA. 14+00.00 TO STA. 14+00.00

CROSS SECTIONS
COAL BANK ROAD

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	17
	METAMORA R.D.	CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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	PLOT SCALE =	CHECKED - S.W.M.	REVISED - 02/02/09
	PLOT DATE = 2/2/2009	DATE - 10/31/08	REVISED -

STATE OF ILLINOIS
WOODFORD COUNTY HIGHWAY DEPARTMENT

HLR HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

SCALE: | SHEET NO. OF SHEETS | STA. 14+24.87 TO STA. 14+24.87

CROSS SECTIONS
COAL BANK ROAD

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	18
	METAMORA R.D.	CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

660 655 650 645 640 635 630 625 620

PROP. R.O.W.

24.64 ft

2:1

S.D. 641.50

GROUTED RIPRAP

EXIST. R.O.W.

C = 113 F = 247

648.65 648.99 648.65

643.84

2:1

EXIST. R.O.W.

GROUTED RIPRAP

S.D.

14 + 36.09

VERTICAL GRAPHIC SCALE 0 5 10

HORIZONTAL GRAPHIC SCALE 0 5 10

FILE NAME = 070373-sht-sxs_AltB.dgn	USER NAME =	DESIGNED - L.F.S.	REVISED -
		DRAWN - TWK	REVISED -
	PLOT SCALE =	CHECKED - S.W.M.	REVISED - 02/02/09
	PLOT DATE = 2/2/2009	DATE - 10/31/08	REVISED -

STATE OF ILLINOIS
WOODFORD COUNTY HIGHWAY DEPARTMENT

HLR HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

SCALE: | SHEET NO. OF SHEETS

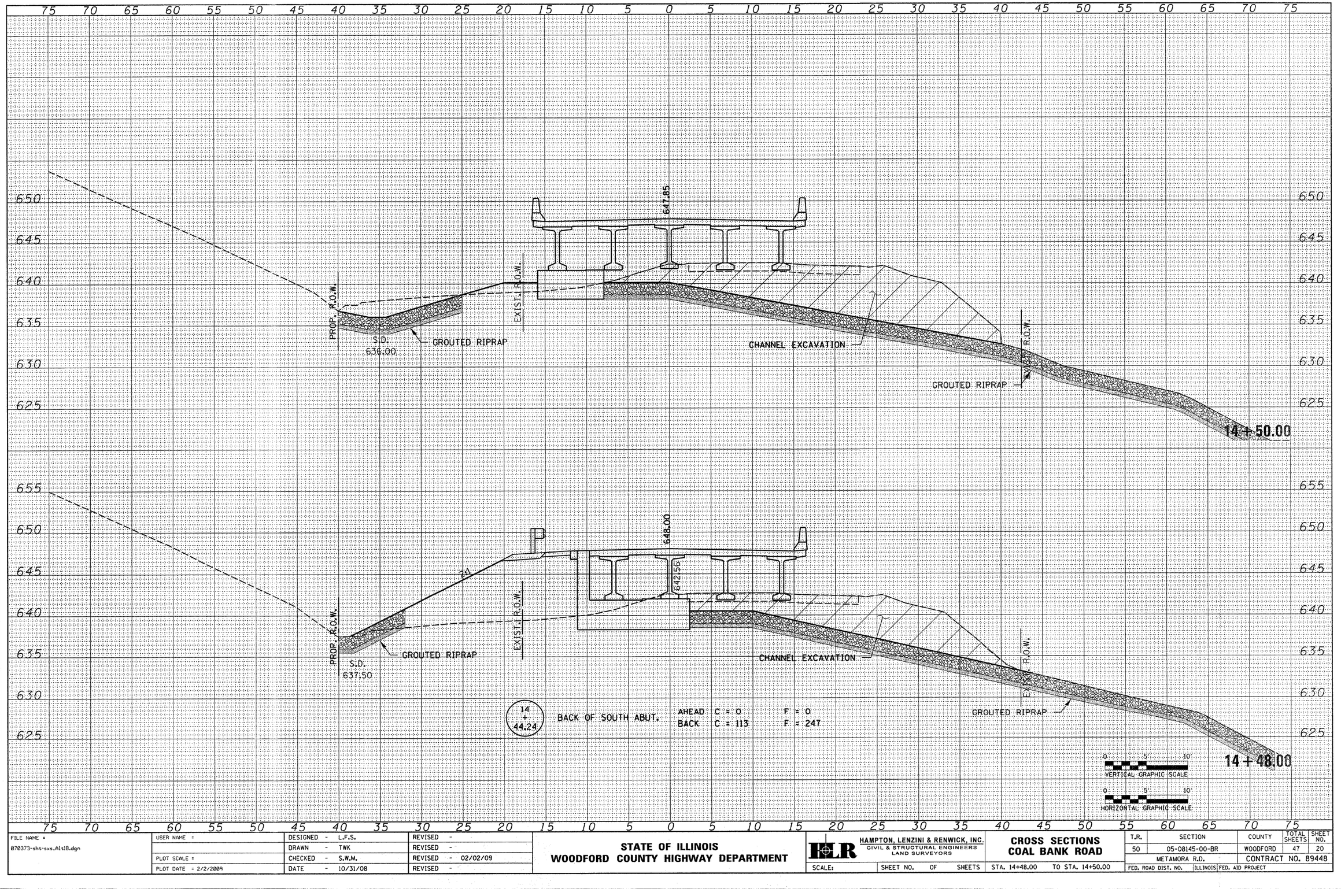
CROSS SECTIONS
COAL BANK ROAD

STA. 14+36.09 TO STA. 14+36.09

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	19
	METAMORA R.D.	CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

BY	DATE



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

BY	DATE

FILE NAME = 070373-sht-sxs_Alt1B.dgn	USER NAME =	DESIGNED - L.F.S.	REVISED -
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	PLOT SCALE =	CHECKED - S.W.M.	REVISED - 02/02/09
	PLOT DATE = 2/2/2009	DATE - 10/31/08	REVISED -

STATE OF ILLINOIS
WOODFORD COUNTY HIGHWAY DEPARTMENT

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

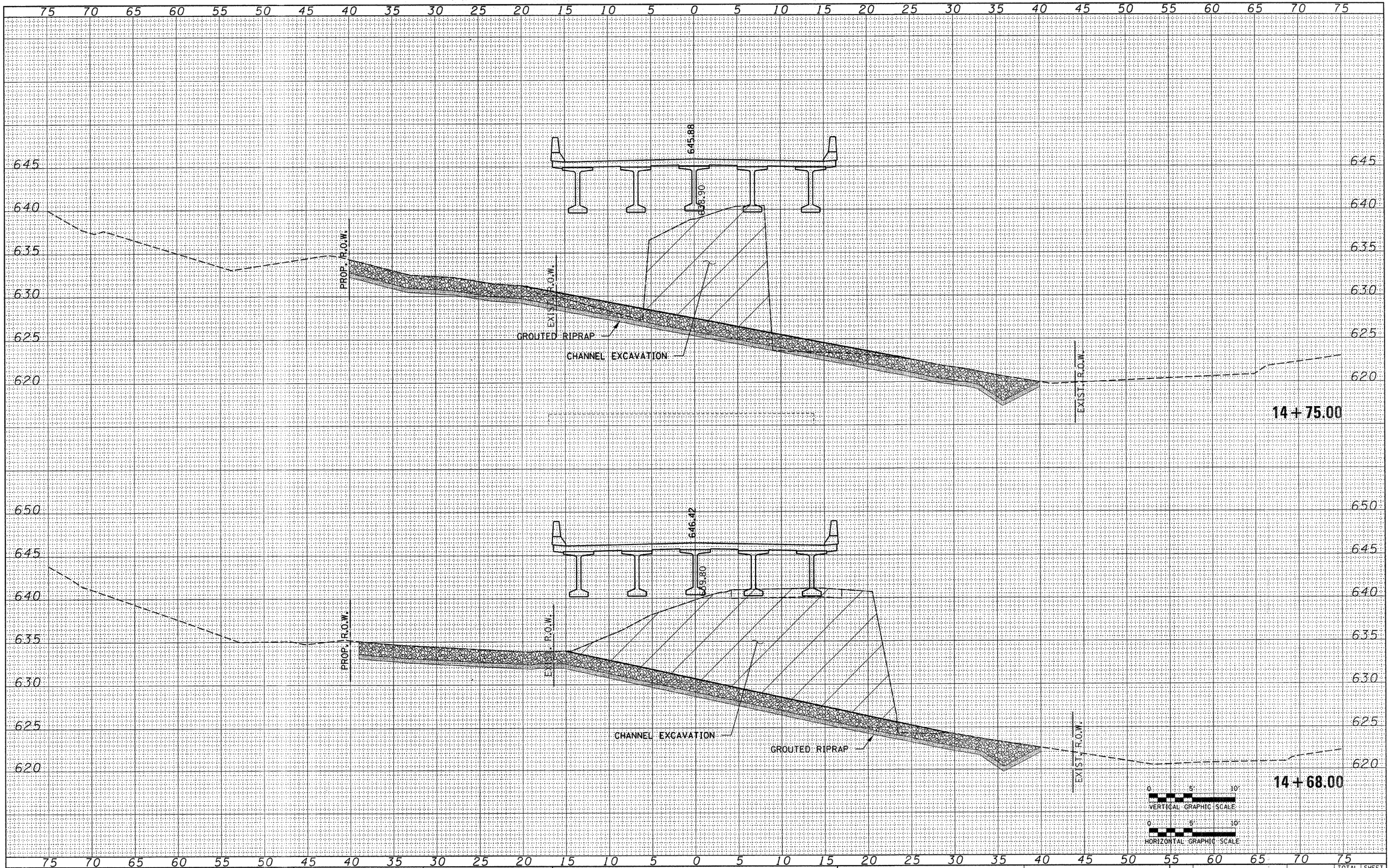
SCALE: | SHEET NO. OF SHEETS

CROSS SECTIONS
COAL BANK ROAD

STA. 14+48.00 TO STA. 14+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	20
	METAMORA R.D.	CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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



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

FILE NAME = 070373-sht-sxs_A1s18.dgn	USER NAME =	DESIGNED - L.F.S.	REVISED -	STATE OF ILLINOIS WOODFORD COUNTY HIGHWAY DEPARTMENT
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	PLOT SCALE =	CHECKED - S.W.M.	REVISED - 02/02/09	
	PLOT DATE = 2/2/2009	DATE - 10/31/08	REVISED -	

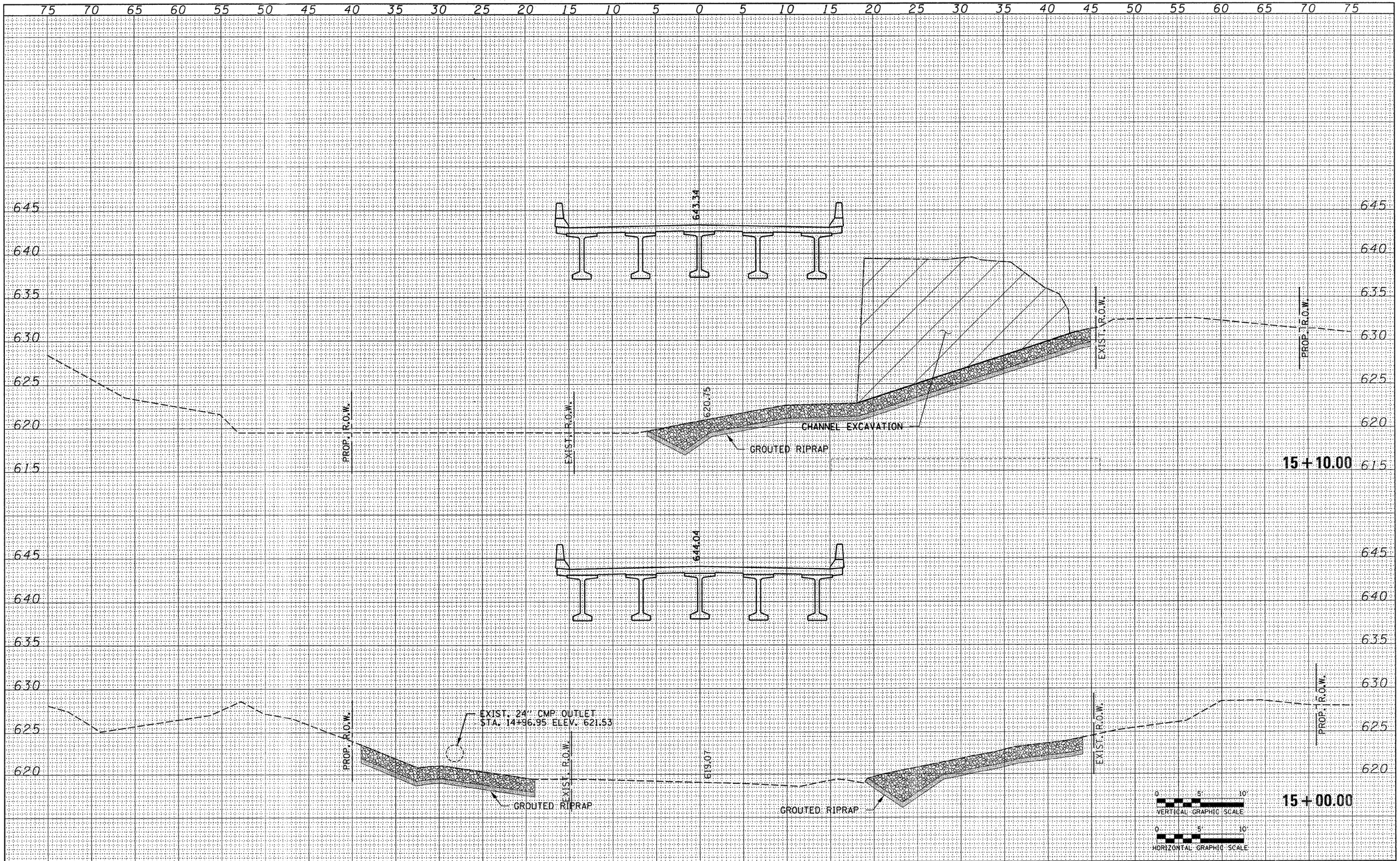
HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

SCALE: | SHEET NO. OF SHEETS | STA. 14+68.00 TO STA. 14+75.00

CROSS SECTIONS
COAL BANK ROAD

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	21
	METAMORA R.D.	CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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



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

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	PLOT SCALE =	CHECKED - S.W.M.	REVISED - 02/02/09
	PLOT DATE = 2/2/2009	DATE - 10/31/08	REVISED -

STATE OF ILLINOIS
WOODFORD COUNTY HIGHWAY DEPARTMENT

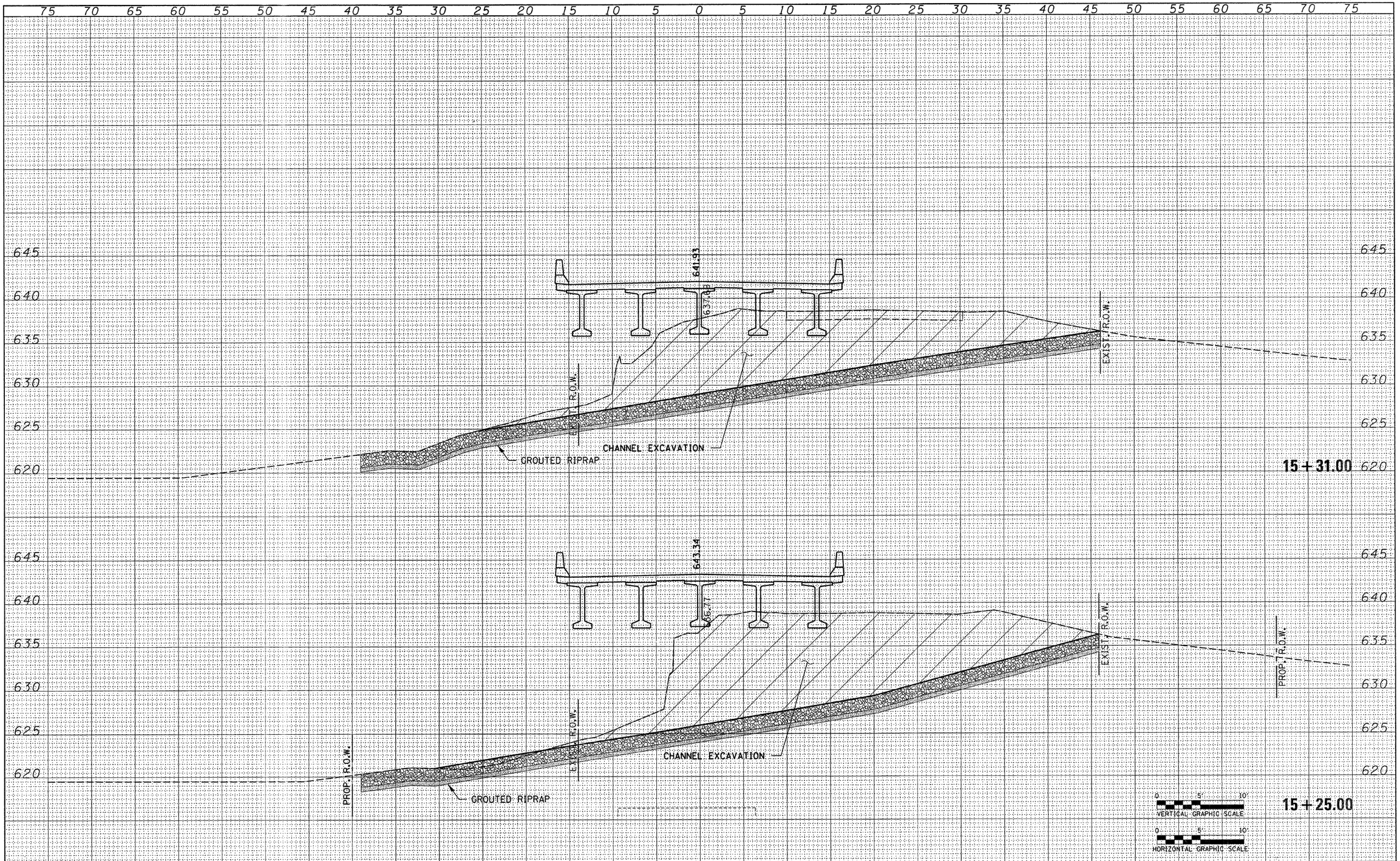
HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

SCALE: | SHEET NO. OF SHEETS | STA. 15+00.00 TO STA. 15+10.00

CROSS SECTIONS
COAL BANK ROAD

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	22
	METAMORA R.D.	CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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



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

FILE NAME = 070373-sht-sxs.AltB.dgn	USER NAME =	DESIGNED - L.F.S.	REVISED -
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	PLOT SCALE =	CHECKED - S.W.M.	REVISED - 02/02/09
	PLOT DATE = 2/2/2009	DATE - 10/31/08	REVISED -

STATE OF ILLINOIS
WOODFORD COUNTY HIGHWAY DEPARTMENT

HLR HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

SCALE: | SHEET NO. OF SHEETS

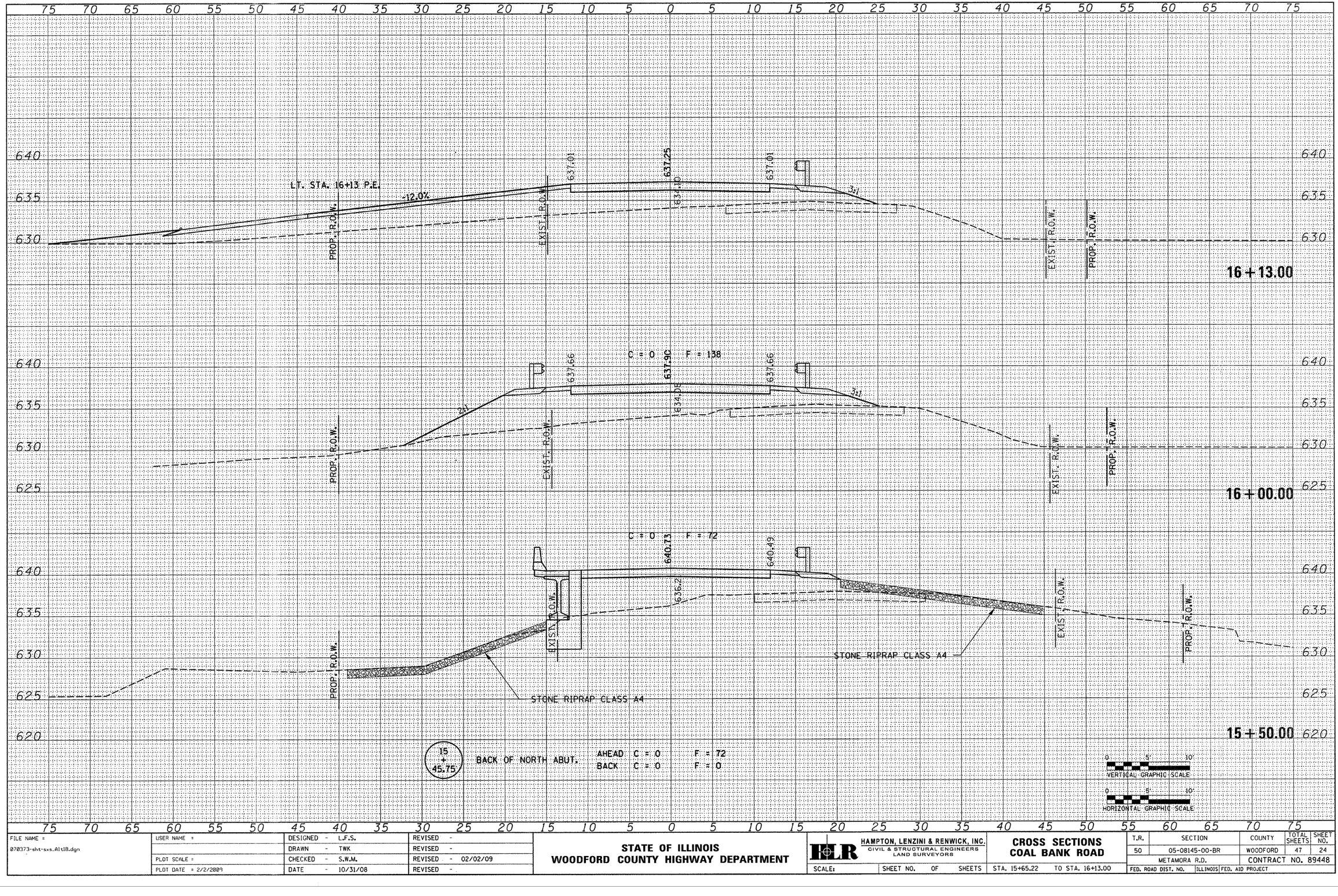
CROSS SECTIONS
COAL BANK ROAD

STA. 15+25.00 TO STA. 15+31.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	23
	METAMORA R.D.	CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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		DRAWN - TWK	REVISED -
	PLOT SCALE =	CHECKED - S.W.M.	REVISED - 02/02/09
	PLOT DATE = 2/2/2009	DATE - 10/31/08	REVISED -

STATE OF ILLINOIS
WOODFORD COUNTY HIGHWAY DEPARTMENT

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

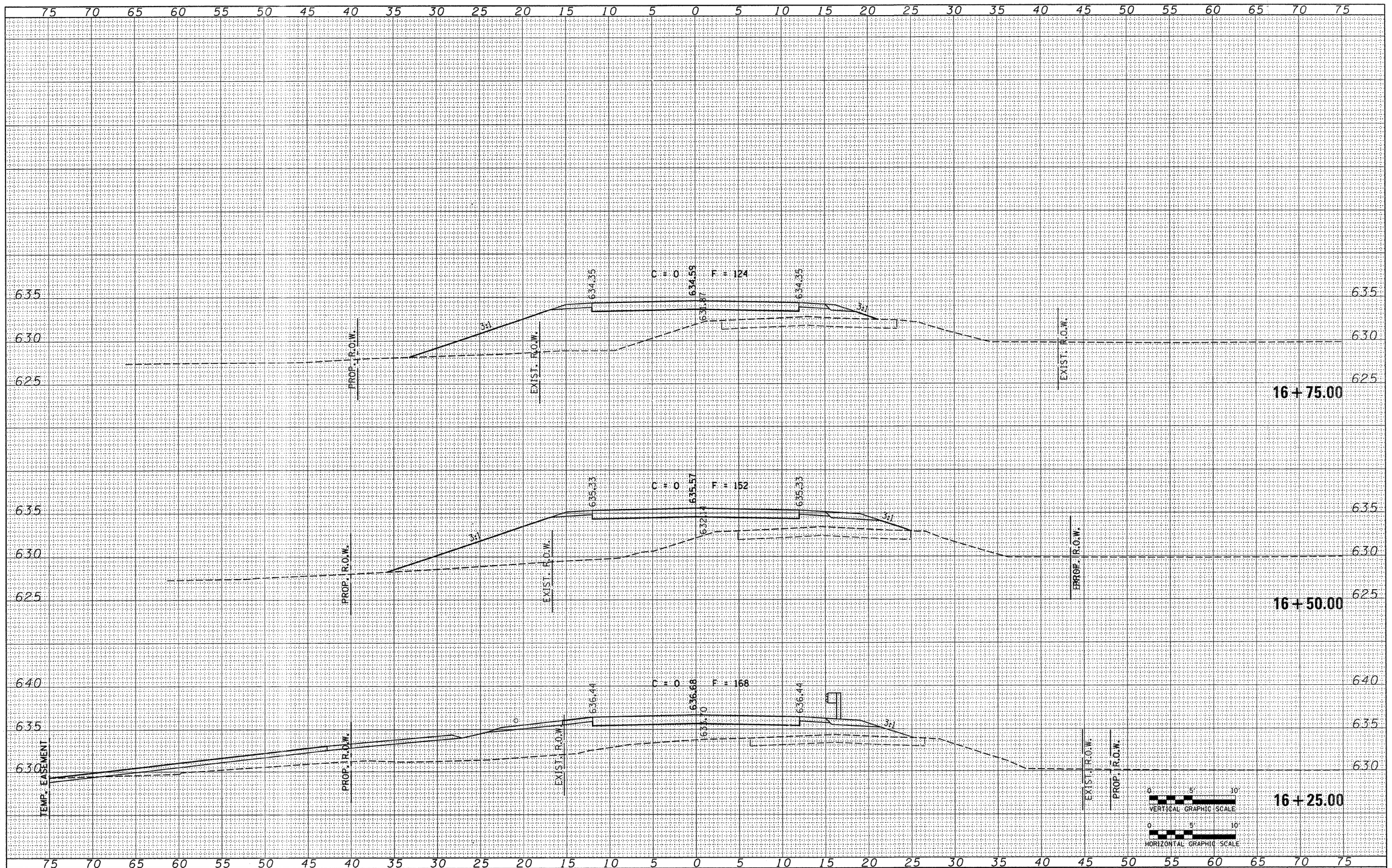
SCALE: | SHEET NO. OF SHEETS

CROSS SECTIONS
COAL BANK ROAD

STA. 15+65.22 TO STA. 16+13.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	24
	METAMORA R.D.	CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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



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

FILE NAME = 070373-sht-sxs_Alt1B.dgn	USER NAME =	DESIGNED - L.F.S.	REVISED -
		DRAWN - TWK	REVISED -
	PLOT SCALE =	CHECKED - S.W.M.	REVISED - 02/02/09
	PLOT DATE = 2/2/2009	DATE - 10/31/08	REVISED -

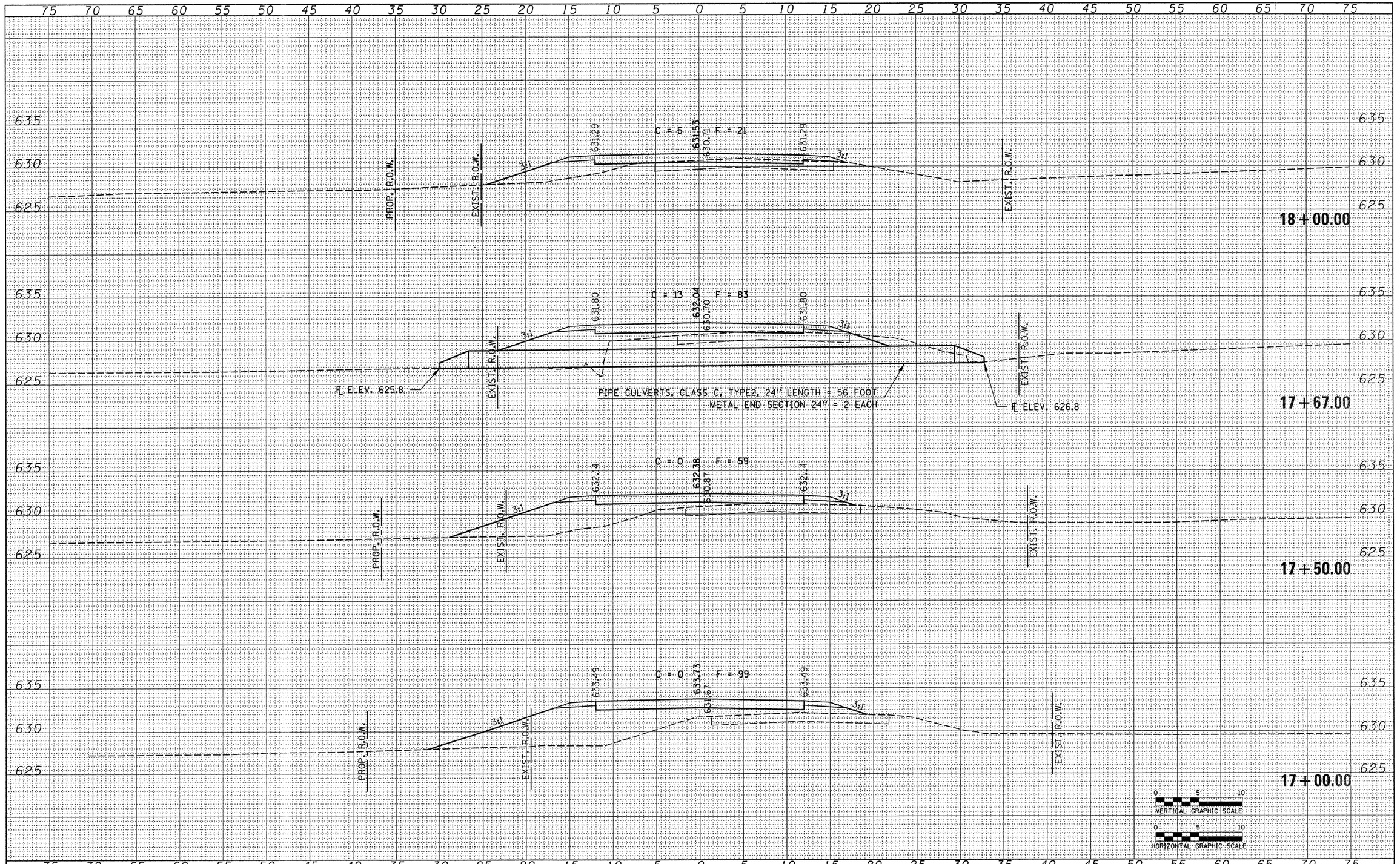
STATE OF ILLINOIS
WOODFORD COUNTY HIGHWAY DEPARTMENT

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

SCALE: | SHEET NO. OF SHEETS | STA. 16+25.00 TO STA. 16+75.00

CROSS SECTIONS
COAL BANK ROAD

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	25
	METAMORA R.D.	CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

FILE NAME = 070373-sht-sxs_Alt1B.dgn	USER NAME =	DESIGNED - L.F.S.	REVISED -
		DRAWN - TWK	REVISED - .
	PLOT SCALE =	CHECKED - S.W.M.	REVISED - 02/02/09
	PLOT DATE = 2/2/2009	DATE - 10/31/08	REVISED -

STATE OF ILLINOIS
WOODFORD COUNTY HIGHWAY DEPARTMENT

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

SCALE: | SHEET NO. OF SHEETS | STA. 17+00.00 TO STA. 18+00.00

CROSS SECTIONS
COAL BANK ROAD

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	26
	METAMORA R.D.	CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

IMPROVEMENT ENDS STA. 20+00.00 AHEAD C = 0 F = 0
BACK C = 22 F = 0

630.80
630.79

EXIST. R.O.W.

EXIST. R.O.W.

20 + 00.00

C = 17 F = 3

631.22
630.92
630.88
630.68

EXIST. R.O.W.

EXIST. R.O.W.

19 + 50.00

C = 16 F = 5

631.34
631.04
630.99
630.80

EXIST. R.O.W.

EXIST. R.O.W.

19 + 00.00

C = 14 F = 8

631.18
631.16
630.95
630.92

PROP. R.O.W.

EXIST. R.O.W.

18 + 50.00

630 625

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

VERTICAL GRAPHIC SCALE 0 5 10

HORIZONTAL GRAPHIC SCALE 0 5 10

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

FILE NAME = 070373-sht-sxs_Alt1B.dgn	USER NAME =	DESIGNED - L.F.S.	REVISED -
		DRAWN - TWK	REVISED -
	PLOT SCALE =	CHECKED - S.W.M.	REVISED - 02/02/09
	PLOT DATE = 2/2/2009	DATE - 10/31/08	REVISED -

STATE OF ILLINOIS
WOODFORD COUNTY HIGHWAY DEPARTMENT

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

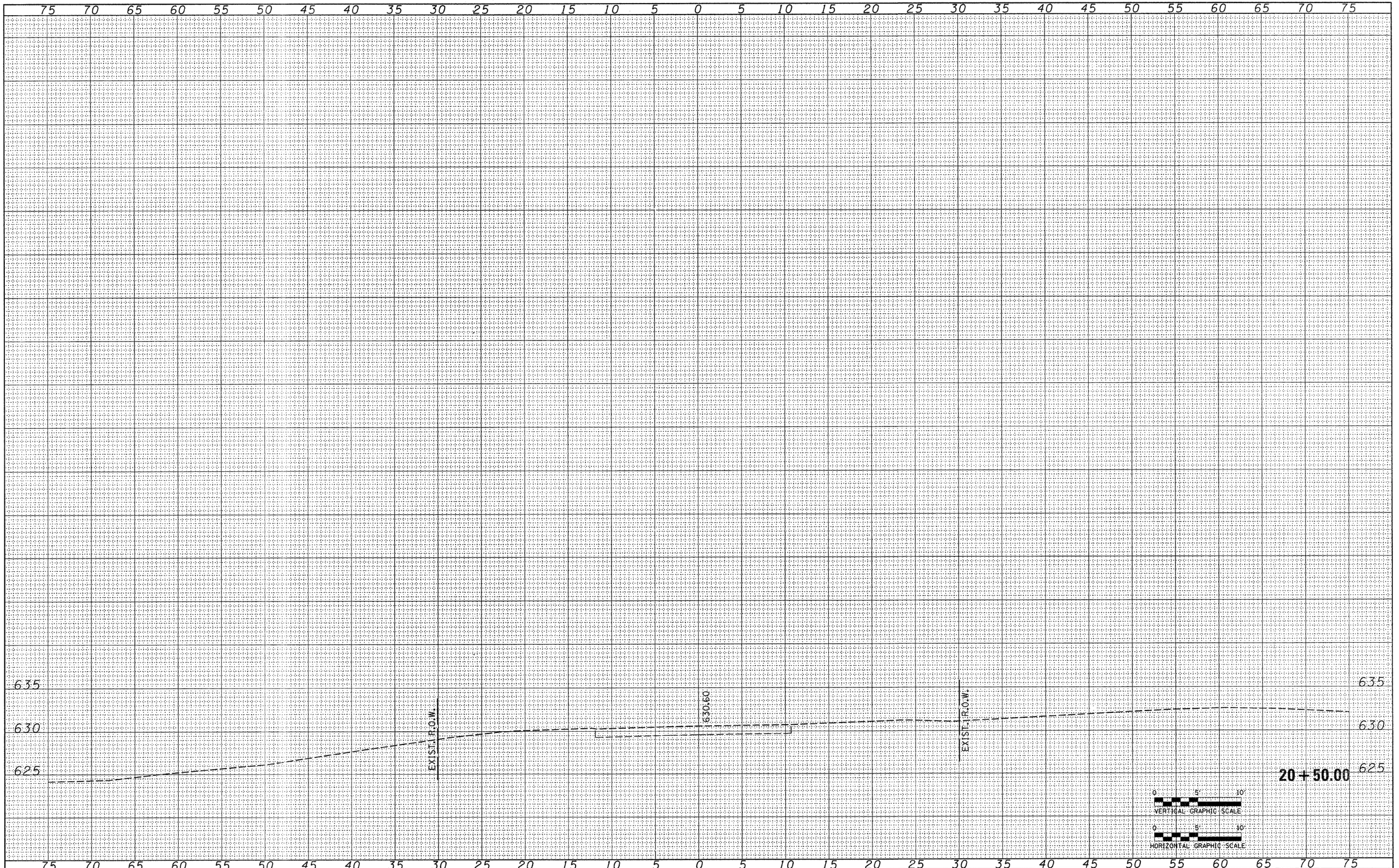
SCALE: | SHEET NO. OF SHEETS | STA. 18+50.00 TO STA. 20+00.00

CROSS SECTIONS
COAL BANK ROAD

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	27
	METAMORA R.D.	CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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		DRAWN - TWK	REVISED -
	PLOT SCALE =	CHECKED - S.W.M.	REVISED - 02/02/09
	PLOT DATE = 2/2/2009	DATE - 10/31/08	REVISED -

STATE OF ILLINOIS
WOODFORD COUNTY HIGHWAY DEPARTMENT

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

SCALE: | SHEET NO. OF SHEETS | STA. 20+50.00 TO STA. 20+50.00

CROSS SECTIONS
COAL BANK ROAD

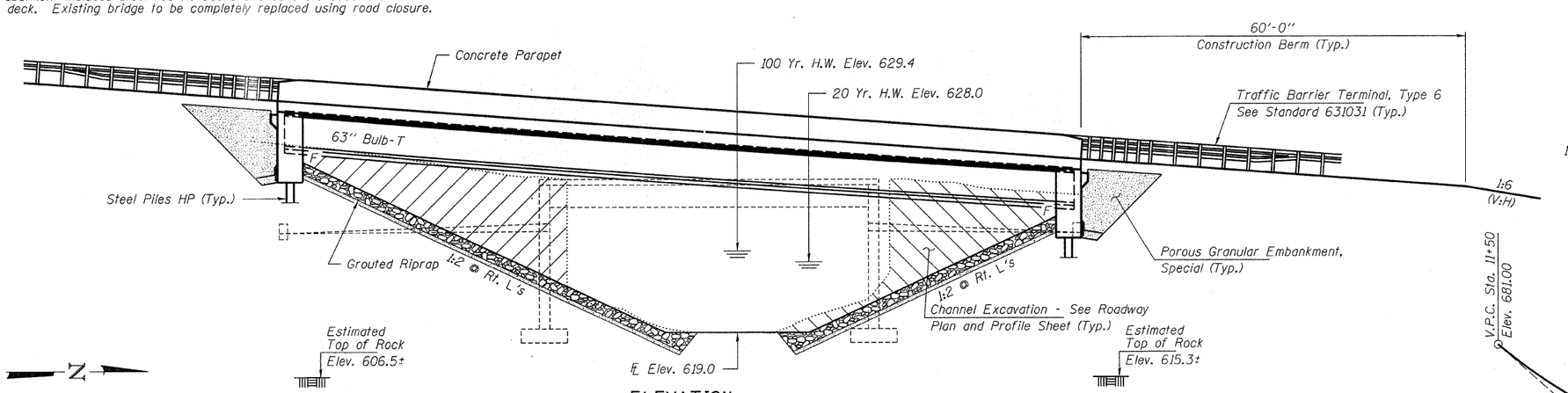
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	28
	METAMORA R.D.	CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Bench Mark: Chiseled "□" on east curb, 39' Rt., Sta. 14+82., Elev. 639.92.

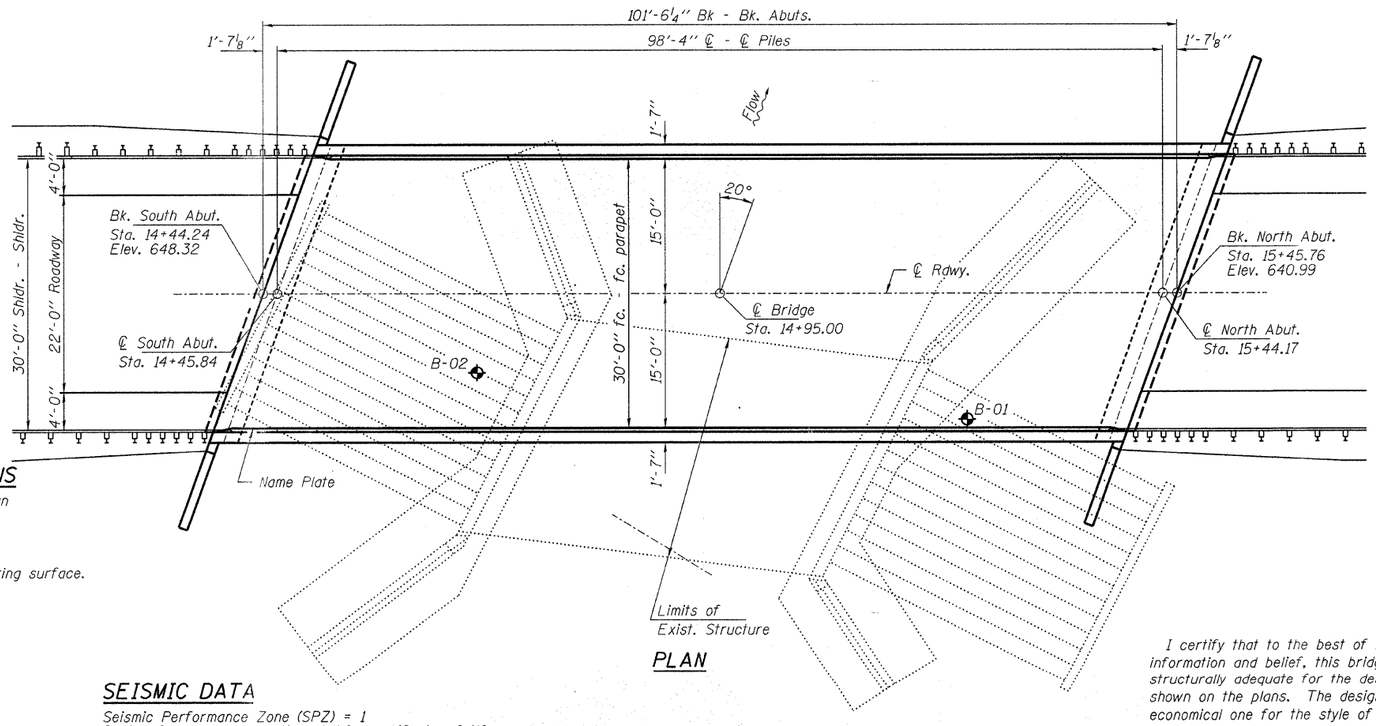
Existing Structure: Single span steel I-Beam bridge with cast in place concrete deck on closed concrete abutments and wingwalls. Each abutment includes steel rod tie backs and concrete deadman. 38.7' fc.-fc. abuts.; 25.1' o.-o. deck. Existing bridge to be completely replaced using road closure.

No Salvage.

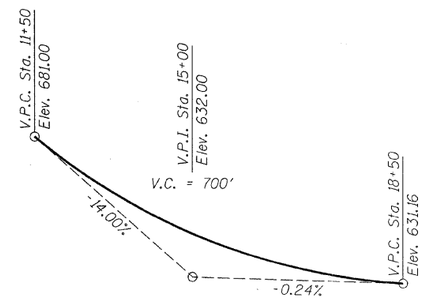
INDEX OF SHEETS



ELEVATION



PLAN



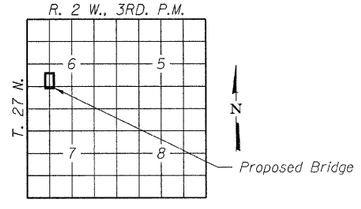
PROFILE GRADE

(Along ℄ Rdwy.)

PARTRIDGE CREEK
BUILT 200_ BY
WOODFORD COUNTY
METAMORA ROAD DISTRICT
SEC. 05-08145-00-BR
STR. NO. 102-3210
LOADING HL-93

NAME PLATE

See Std. 515001



LOCATION SKETCH

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications with 2008 Interims

LOADING HL-93

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

DESIGN STRESSES

FIELD UNITS

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

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
f'ci = 5,000 psi
fpu = 270,000 psi (½"Φ low lax. strands)
fpbt = 201,960 psi (½"Φ low lax. strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.110g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.173g
Soil Site Class = D

WATERWAY INFORMATION

Drainage Area = 5.0 Sq. Mi. — Existing Low Grade Elev. 630.8 @ Sta. 20+00 — Proposed Low Grade Elev. 630.8 @ Sta. 20+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Natural H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	20	1,630	250	290	628.0	0.2	0.4	628.2	628.4
Base	100	2,547	310	360	629.4	0.9	1.0	630.3	630.4
Overtopping									
Max. Calc.	500	3,554	340	410	630.3	2.2	1.9	632.5	632.2

10 Year Velocity through Existing Bridge = 6.0 fps — 10 Year Velocity through Proposed Bridge = 7.4 fps

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	N. Abut.	S. Abut.
	632.0	635.0

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

Michael D. Cima
ILLINOIS STRUCTURAL NO. 081-5984

LICENSED STRUCTURAL ENGINEER * MICHAEL D. CIMA 081-5984 SPRINGFIELD, IL * STATE OF ILLINOIS

2-3-2009

Expires 11-30-2010

DESIGNED -	S.M.S.
CHECKED -	M.D.C.
DRAWN -	D.A.B.
CHECKED -	S.W.M.

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

PROJECT NUMBER: 07.0373.130 — DATE: 02/02/09

SHEET NO. 1
16 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	29
METAMORA ROAD DISTRICT		CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 102-3210

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment	Cu. Yd.			240
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		424	424
Concrete Structures	Cu. Yd.		44.6	44.6
Concrete Superstructure	Cu. Yd.	173.7		173.7
Bridge Deck Grooving	Sq. Yd.	316		316
Concrete Encasement	Cu. Yd.		5.2	5.2
Protective Coat	Sq. Yd.	424		424
Furnishing & Erecting P.P.C. Bulb-T Beams 63"	Foot	500		500
Reinforcement Bars, Epoxy Coated	Pound	28,260	9,190	37,450
Furnishing Steel Piles HP14x73	Foot		256	256
Driving Piles	Foot		136	136
Test Pile Steel HP14x73	Each		1	1
Pile Shoes	Each		4	4
Steel Sheet Piling	Sq. Yd.			544
Name Plates	Each	1		1
Geocomposite Wall Drain	Sq. Yd.		102	102
Concrete Headwall for Pipe Drains	Each			4
Pipe Underdrains for Structures 4"	Foot		200	200
Grouted Riprap	Sq. Yd.			1,140
Setting Piles in Rock	Each		5	5

GENERAL NOTES

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

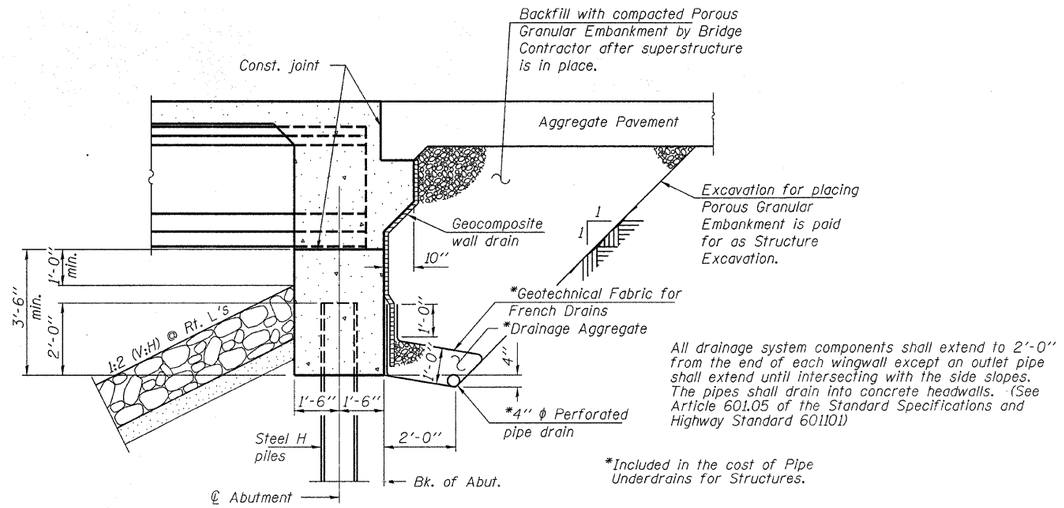
Reinforcement bars designated (E) shall be epoxy coated.

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

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

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

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.



SECTION THRU INTEGRAL ABUTMENT

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

DESIGNED - S.M.S.
CHECKED - M.D.C.
DRAWN - D.A.B.
CHECKED - S.W.M.

GENERAL NOTES AND BILL OF MATERIAL STRUCTURE NO. 102 – 3210

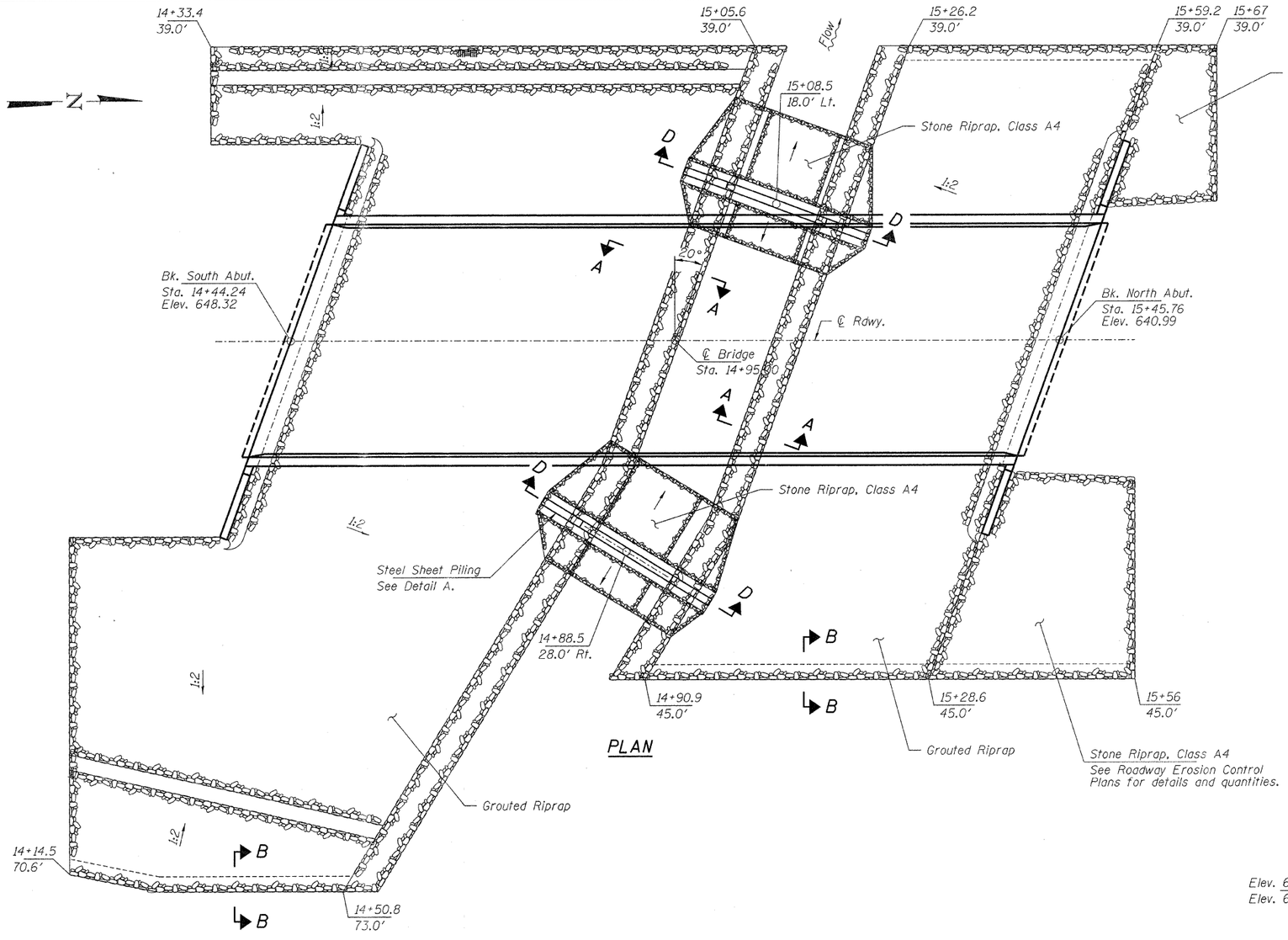
HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
HLR
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

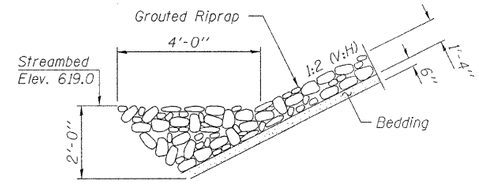
PROJECT NUMBER: 07.0373.130 | DATE: 02/02/09

SHEET NO. 2

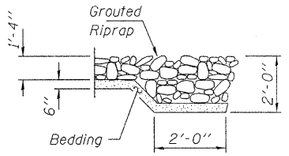
16 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	30
METAMORA ROAD DISTRICT		CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

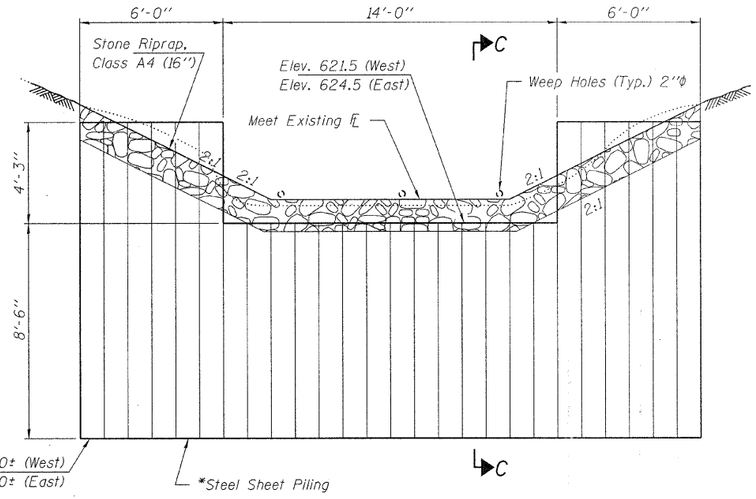




SECTION A-A

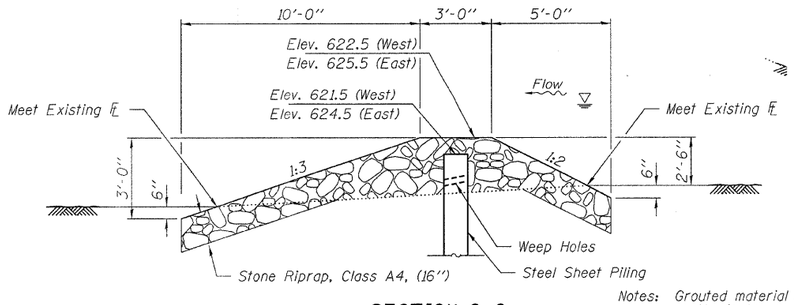


SECTION B-B



SECTION D-D

* Minimum effective section modulus of permanent steel sheet piling shall be 3.5 in^3/ft.



SECTION C-C

Notes: Grouted material shall not be placed on the instream riprap detail.

Filter Fabric is not required.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Steel Sheet Piling	Sq. Ft.	544

DESIGNED -	S.M.S.
CHECKED -	M.D.C.
DRAWN -	D.A.B.
CHECKED -	S.W.M.

RIPRAP DETAILS
STRUCTURE NO. 102-3210

HAMPTON, LENZINI & RENWICK, INC.
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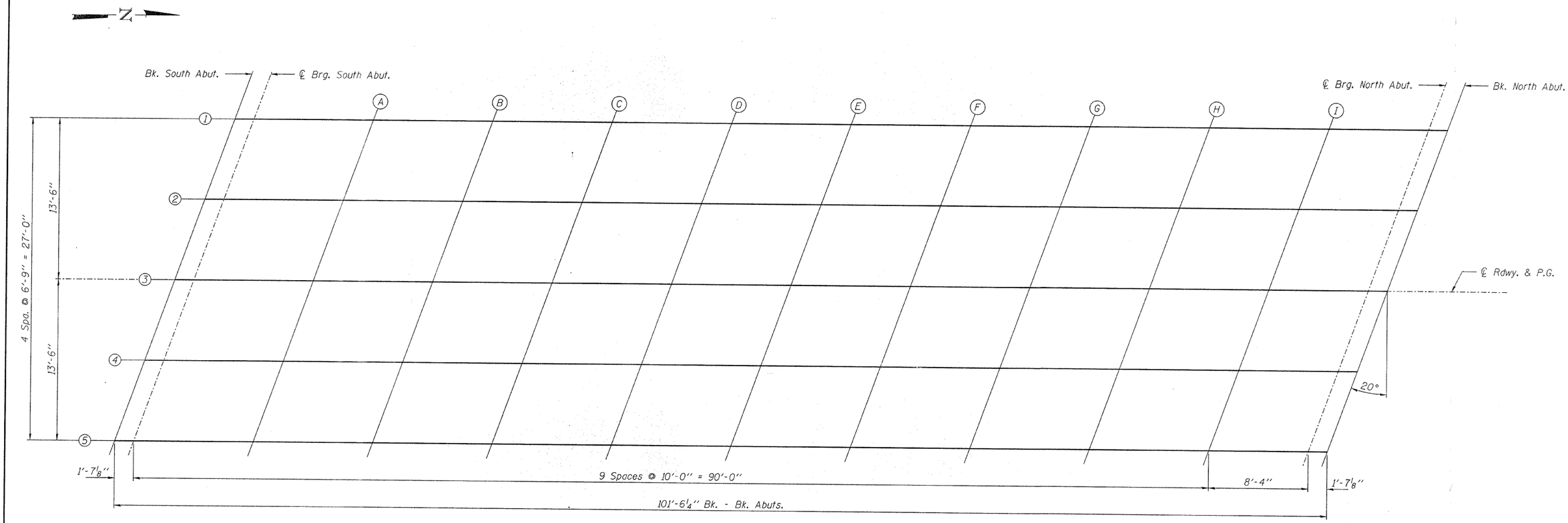
LAND SURVEYORS
HLR
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

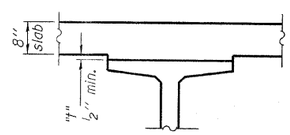
PROJECT NUMBER: 07.0373.130 | DATE: 02/02/09

SHEET NO. 3
16 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	31
METAMORA ROAD DISTRICT		CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

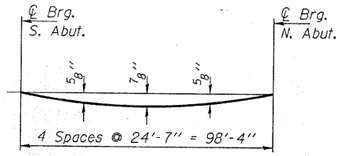


PLAN



STANDARD FILLET DETAIL

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



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only)

Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheet 4.

DESIGNED	S.M.S.
CHECKED	M.D.C.
DRAWN	D.A.B.
CHECKED	S.W.M.

HAMPTON, LENZINI & RENWICK, INC.
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PROJECT NUMBER: 07.0373.130 | DATE: 02/02/09

SHEET NO. 4
16 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	32
METAMORA ROAD DISTRICT		CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SLAB ELEVATIONS
STRUCTURE NO. 102 – 3210

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	14+49.15	-13.50	647.64	647.64
℄ Brg. S. Abut.	14+50.75	-13.50	647.52	647.52
A	14+60.75	-13.50	646.72	646.74
B	14+70.75	-13.50	645.94	645.98
C	14+80.75	-13.50	645.18	645.24
D	14+90.75	-13.50	644.44	644.50
E	15+00.75	-13.50	643.72	643.79
F	15+10.75	-13.50	643.02	643.08
G	15+20.75	-13.50	642.34	642.39
H	15+30.75	-13.50	641.67	641.71
I	15+40.75	-13.50	641.03	641.05
℄ Brg. N. Abut.	15+49.08	-13.50	640.51	640.51
Bk. N. Abut.	15+50.67	-13.50	640.41	640.41

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	14+46.70	-6.75	647.98	647.98
℄ Brg. S. Abut.	14+48.29	-6.75	647.85	647.85
A	14+58.29	-6.75	647.05	647.07
B	14+68.29	-6.75	646.26	646.31
C	14+78.29	-6.75	645.50	645.56
D	14+88.29	-6.75	644.75	644.82
E	14+98.29	-6.75	644.03	644.10
F	15+08.29	-6.75	643.32	643.39
G	15+18.29	-6.75	642.64	642.69
H	15+28.29	-6.75	641.97	642.01
I	15+38.29	-6.75	641.32	641.34
℄ Brg. N. Abut.	15+46.62	-6.75	640.80	640.80
Bk. N. Abut.	15+48.22	-6.75	640.70	640.70

BEAM 3 & ℄ ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	14+44.24	0.00	648.32	648.32
℄ Brg. S. Abut.	14+45.83	0.00	648.19	648.19
A	14+55.83	0.00	647.38	647.40
B	14+65.83	0.00	646.59	646.63
C	14+75.83	0.00	645.82	645.88
D	14+85.83	0.00	645.07	645.14
E	14+95.83	0.00	644.34	644.41
F	15+05.83	0.00	643.63	643.69
G	15+15.83	0.00	642.94	642.99
H	15+25.83	0.00	642.27	642.31
I	15+35.83	0.00	641.62	641.63
℄ Brg. N. Abut.	15+44.17	0.00	641.09	641.09
Bk. N. Abut.	15+45.76	0.00	640.99	640.99

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	14+41.78	6.75	648.38	648.38
℄ Brg. S. Abut.	14+43.38	6.75	648.25	648.25
A	14+53.38	6.75	647.44	647.46
B	14+63.38	6.75	646.64	646.69
C	14+73.38	6.75	645.87	645.93
D	14+83.38	6.75	645.12	645.18
E	14+93.38	6.75	644.38	644.46
F	15+03.38	6.75	643.67	643.73
G	15+13.38	6.75	642.97	643.03
H	15+23.38	6.75	642.29	642.33
I	15+33.38	6.75	641.64	641.66
℄ Brg. N. Abut.	15+41.71	6.75	641.11	641.11
Bk. N. Abut.	15+43.30	6.75	641.01	641.01

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	14+39.33	13.50	648.45	648.45
℄ Brg. S. Abut.	14+40.92	13.50	648.32	648.32
A	14+50.92	13.50	647.50	647.52
B	14+60.92	13.50	646.70	646.75
C	14+70.92	13.50	645.92	645.98
D	14+80.92	13.50	645.16	645.23
E	14+90.92	13.50	644.43	644.50
F	15+00.92	13.50	643.71	643.77
G	15+10.92	13.50	643.00	643.06
H	15+20.92	13.50	642.32	642.36
I	15+30.92	13.50	641.66	641.68
℄ Brg. N. Abut.	15+39.25	13.50	641.13	641.13
Bk. N. Abut.	15+40.85	13.50	641.03	641.03

DESIGNED -	S.M.S.
CHECKED -	M.D.C.
DRAWN -	D.A.B.
CHECKED -	S.W.M.

SLAB ELEVATIONS
STRUCTURE NO. 102 – 3210

HAMPTON, LENZINI & RENWICK, INC.
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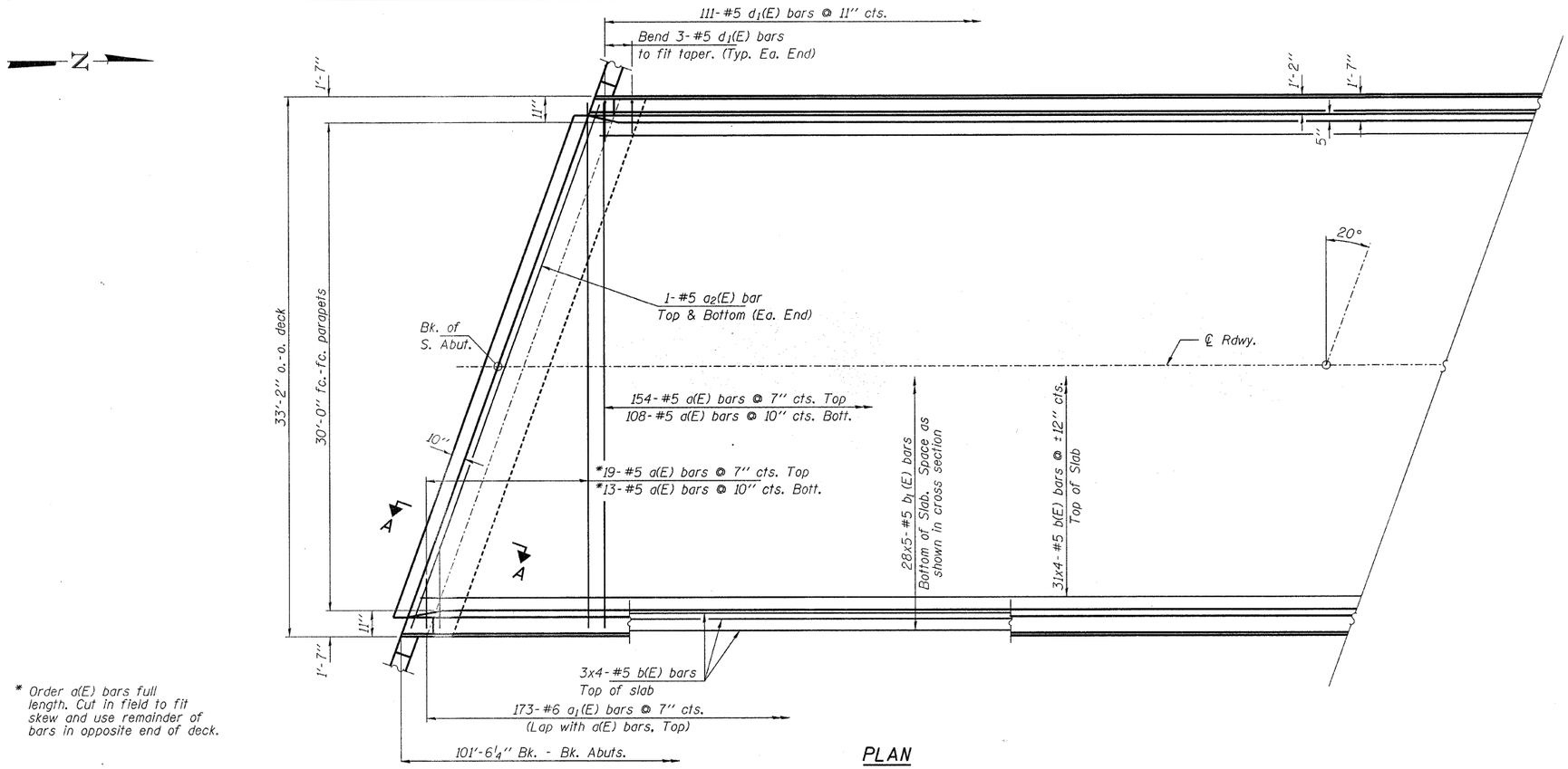
(217) 546-3400

PROJECT NUMBER: 07.0373.130 | DATE: 02/02/09

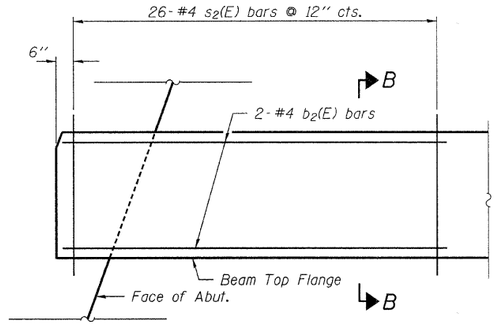
SHEET NO. 5
16 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	33
METAMORA ROAD DISTRICT		CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



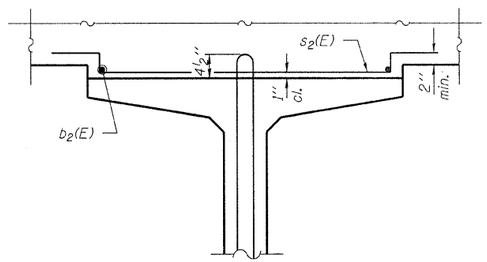
* Order a(E) bars full length. Cut in field to fit skew and use remainder of bars in opposite end of deck.

PLAN

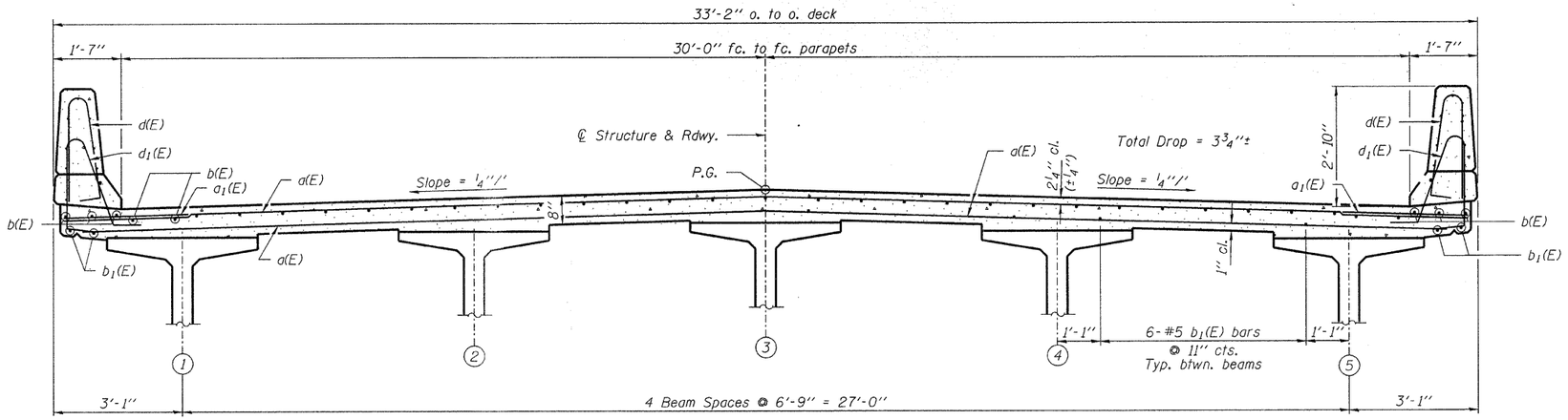


FILLET REINFORCEMENT DETAIL

(Each Beam, Each End)



SECTION B-B



CROSS SECTION

(Looking North)

MIN. BAR LAP

#5 Bar = 1'-8"

Notes:
See sheet 9 for superstructure details, parapet reinforcement and Bill of Material.
For Section A-A and diaphragm details see sheet 10.
Bars indicated thus 28x5-#5 etc. indicates 28 lines of bars with 5 lengths per line.

DESIGNED	S.M.S.
CHECKED	M.D.C.
DRAWN	D.A.B.
CHECKED	S.W.M.

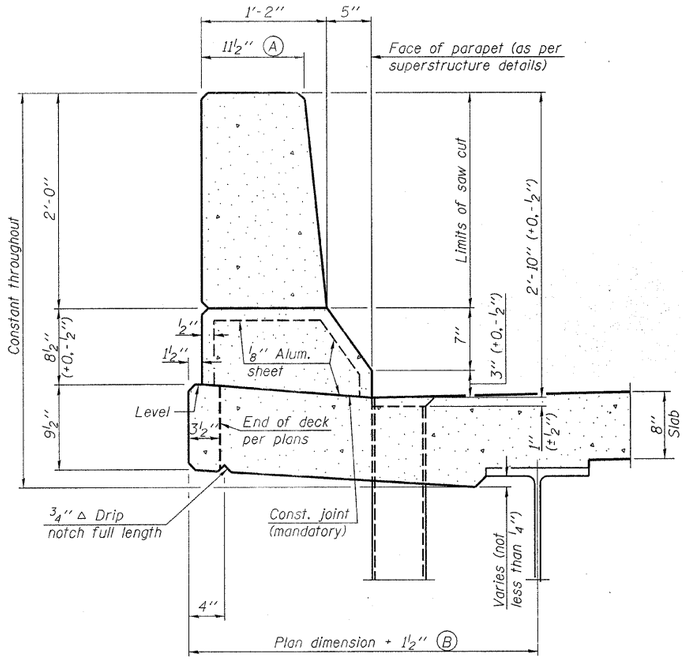
SUPERSTRUCTURE
STRUCTURE NO. 102 – 3210

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
HLR
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

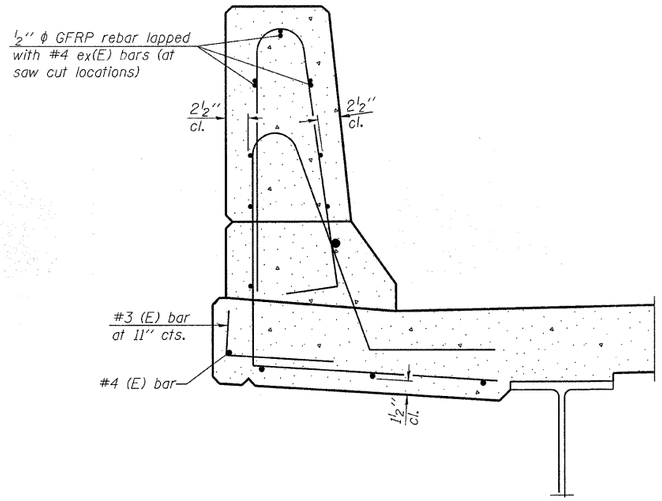
PROJECT NUMBER: 07.0373.130 | DATE: 02/02/09

SHEET NO. 6
16 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	34
METAMORA ROAD DISTRICT		CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SECTION
(Showing dimensions)

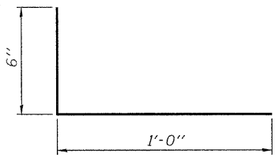


SECTION
(Showing reinforcement clearances for slip forming and additional reinforcement bars)

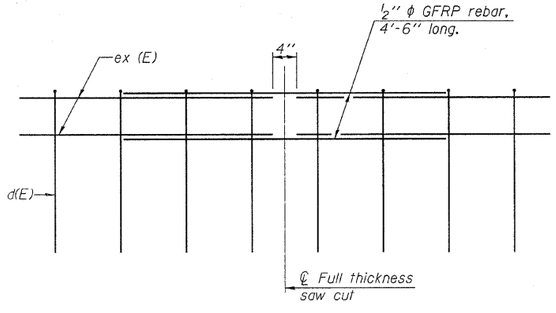
GENERAL NOTES

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

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



#3 (E) BAR



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

CONCRETE PARAPET SLIPFORMING OPTION STRUCTURE NO. 102 – 3210

DESIGNED -	S.M.S.
CHECKED -	M.D.C.
DRAWN -	D.A.B.
CHECKED -	S.W.M.

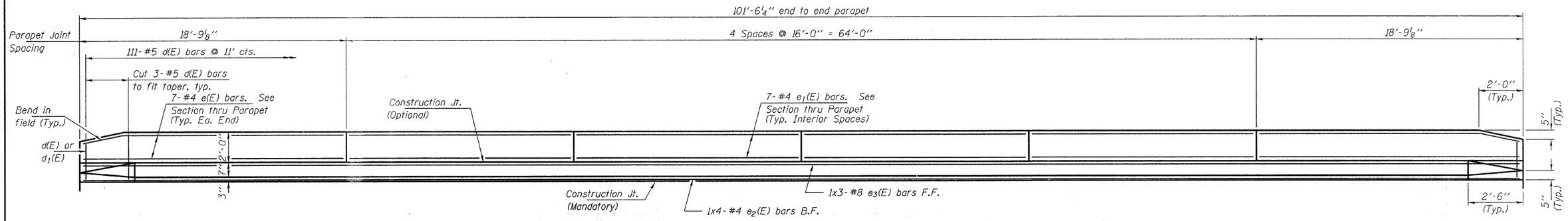
SFP-34 10-1-08

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

PROJECT NUMBER: 07.0373.130 DATE: 02/02/09

SHEET NO. 7
16 SHEETS

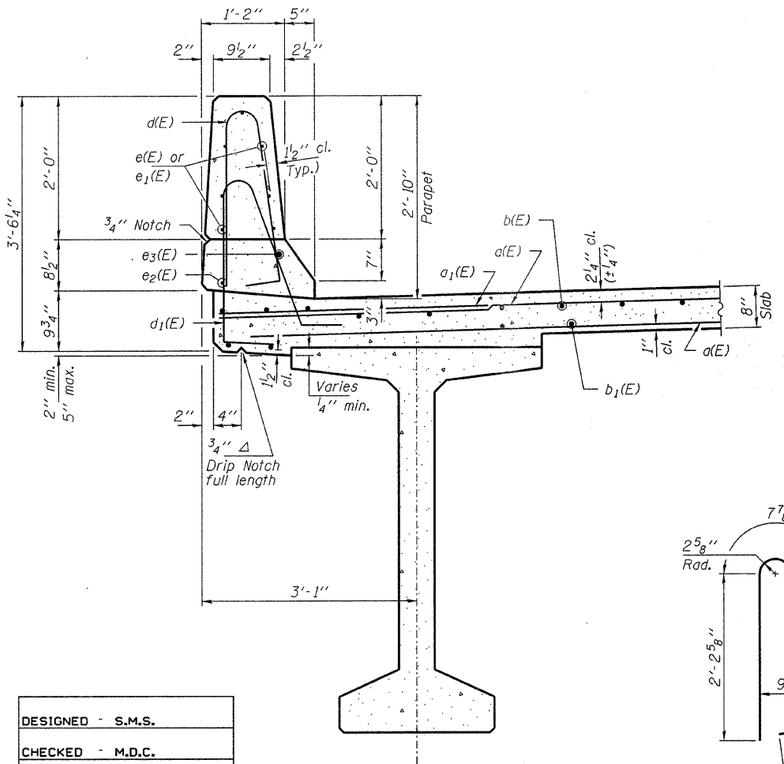
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	35
METAMORA ROAD DISTRICT		CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



INSIDE ELEVATION OF PARAPET

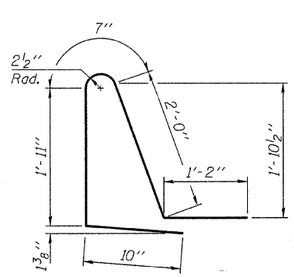
Notes:
Bars indicated thus 1 x 3-#8 etc. indicates 1 line of bars with 3 lengths per line.

MIN. BAR LAPS
#4 bars = 1'-8"
#8 bars = 4'-6"

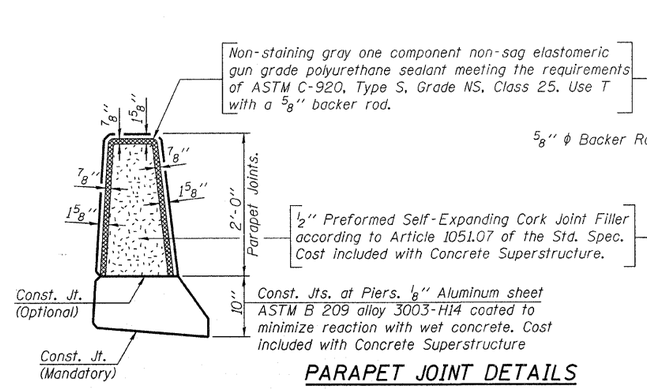


SECTION THRU PARAPET

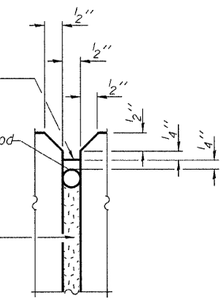
BAR d(E)



BAR d1(E)



PARAPET JOINT DETAILS



SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	294	#5	32'-6"	
a1(E)	346	#6	6'-0"	
a2(E)	4	#5	34'-7"	
b(E)	148	#5	26'-6"	
b1(E)	140	#5	21'-7"	
b2(E)	20	#4	25'-6"	
d(E)	222	#5	5'-7"	
d1(E)	222	#5	6'-6"	
e(E)	28	#4	18'-5"	
e1(E)	56	#4	15'-7"	
e2(E)	8	#4	26'-8"	
e3(E)	6	#8	36'-9"	
m(E)	4	#6	31'-11"	
m1(E)	10	#6	34'-10"	
m2(E)	30	#6	9'-3"	
m3(E)	8	#6	4'-6"	
m4(E)	4	#6	1'-11"	
s(E)	60	#5	7'-2"	
s1(E)	40	#4	14'-8"	
s2(E)	260	#4	5'-5"	
Concrete Superstructures		Cu. Yds.	173.7	
Bridge Deck Grooving		Sq. Yds.	316	
Protective Coat		Sq. Yds.	424	
Reinforcement Bars, Epoxy Coated		Pound	28,260	

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 102 – 3210

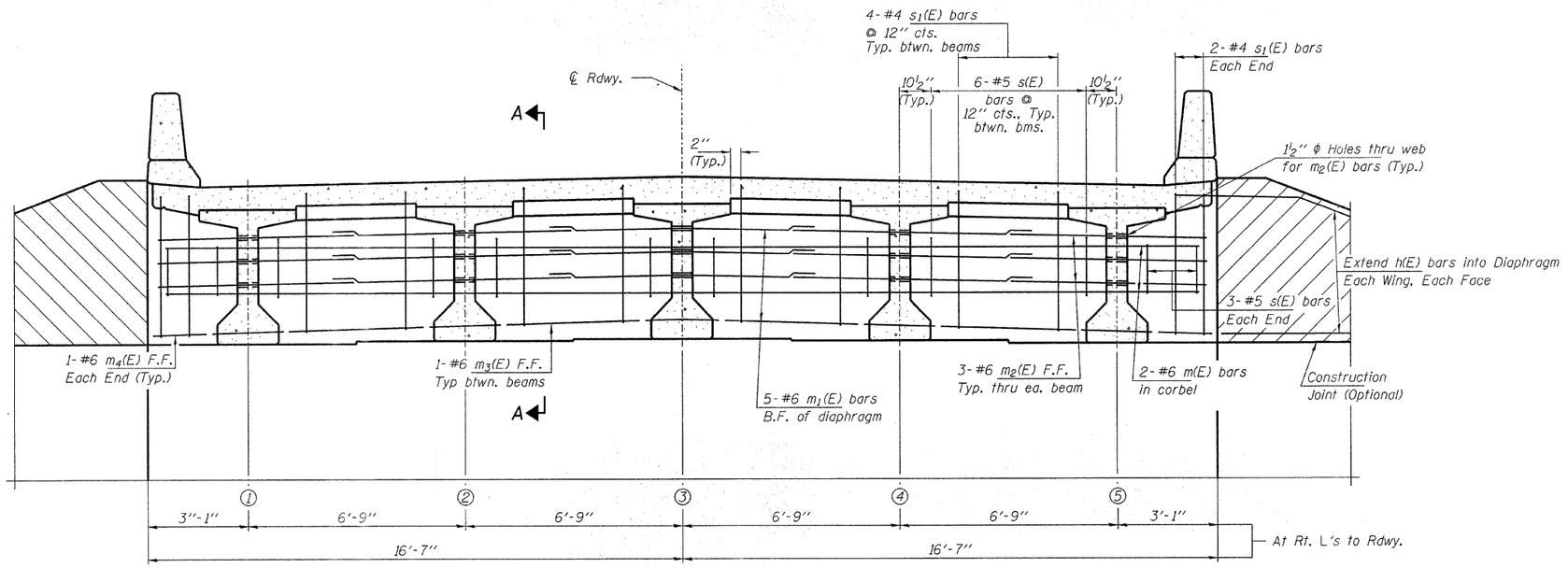
DESIGNED	S.M.S.
CHECKED	M.D.C.
DRAWN	D.A.B.
CHECKED	S.W.M.

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

PROJECT NUMBER: 07.0373.130 | DATE: 02/02/09

SHEET NO. 8
16 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	36
METAMORA ROAD DISTRICT		CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DIAPHRAGM AT ABUTMENTS

F.F. - Front Face
B.F. - Back Face
East Abutment Shown
West Abutment Similar

Notes: Reinforcement bars in diaphragms are billed with superstructure on sheet 9.

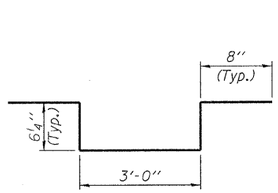
Concrete in diaphragms is included with "Concrete Superstructure" on sheet 9.

See sheet 14 for holes thru web for m_2(E) bars.

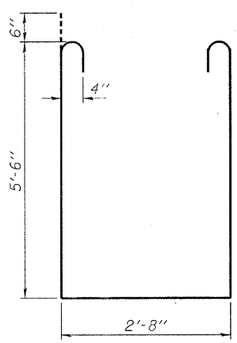
The s(E) and s_1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

MIN. BAR LAP

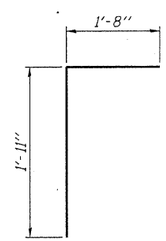
#6 Bar = 2'-0"



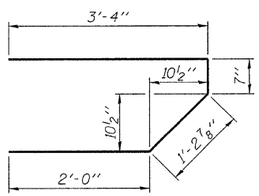
BAR s_2(E)



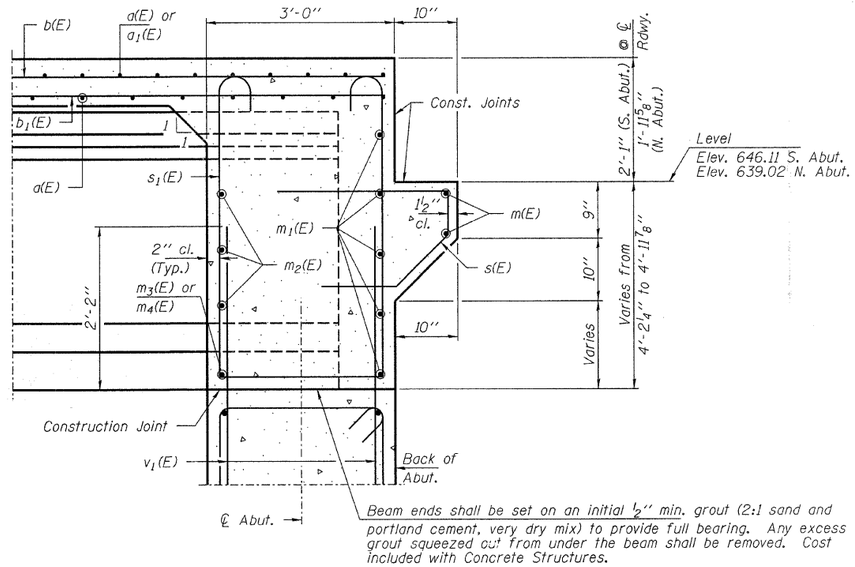
BAR s_1(E)



BAR v(E)



BAR s(E)



SECTION A-A

DESIGNED	S.M.S.
CHECKED	M.D.C.
DRAWN	D.A.B.
CHECKED	S.W.M.

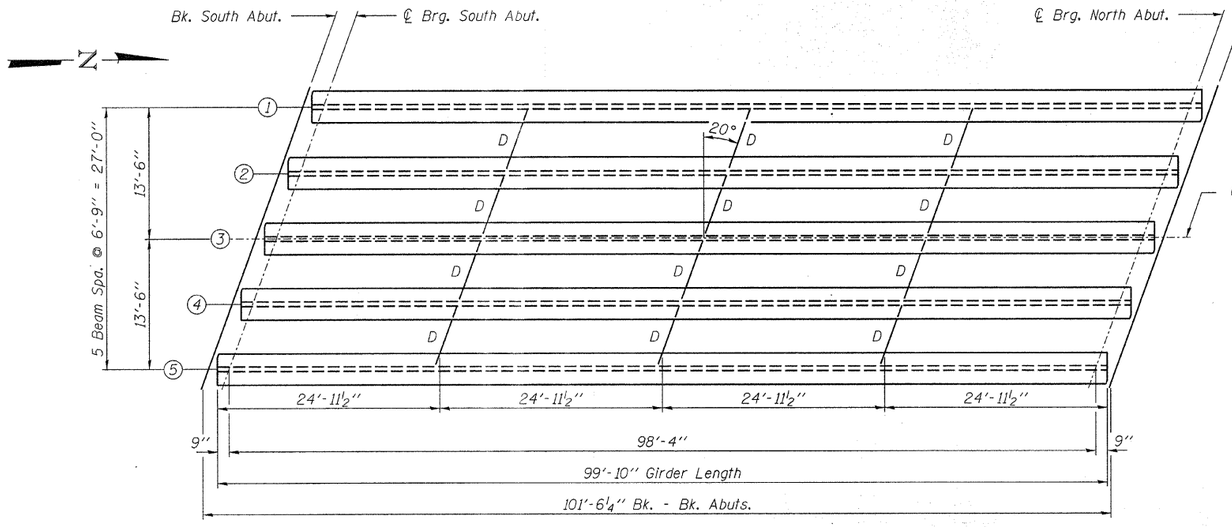
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 102 – 3210

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
HLR
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

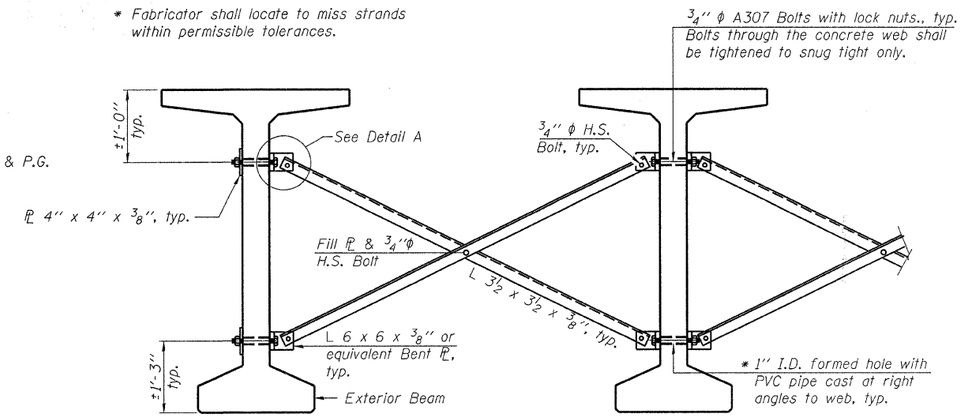
PROJECT NUMBER: 07.0373.130 DATE: 02/02/09

SHEET NO. 9
16 SHEETS

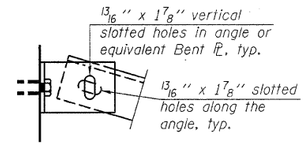
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	37
METAMORA ROAD DISTRICT		CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN

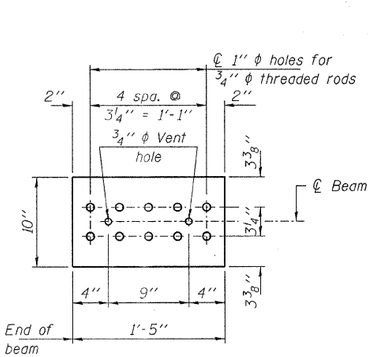


Notes:
All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.
Two hardened washers are required for each set of oversized holes.
All holes shall be 15/16"ϕ unless otherwise noted.
5/16" x 3" x 3" plate washers are required over all slotted holes.
All bolts shall be galvanized according to AASHTO M232.
Bracing shall be installed as beams are erected and tightened as soon as possible during erection.
The cost of the Permanent Bracing shall be included in the cost of Furnishing and Erecting P.P.C. Bulb-T Beams 63".

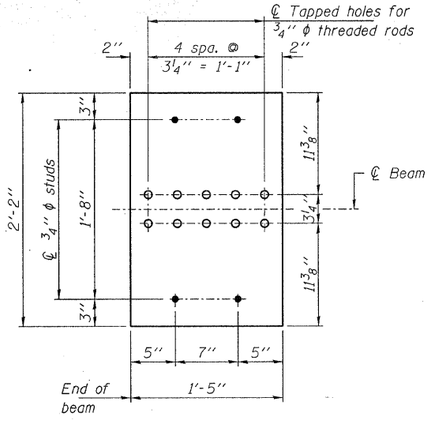


DETAIL A

PERMANENT BRACING DETAILS FOR BULB-T BEAMS

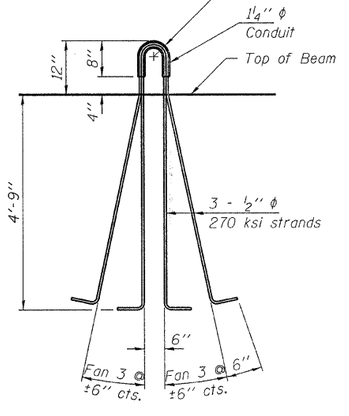


TOP PLATE



BOTTOM PLATE

See bearing details for pintle hole locations when required.



LIFTING LOOP DETAIL

INTERIOR BEAM MOMENT TABLE		0.5 Span
I	(in4)	392,638
I'	(in4)	750,695
S_b	(in3)	12,224
S_b'	(in3)	16,174
S_t	(in3)	12,715
S_t'	(in3)	45,253
DC1	(k/ft.)	1.484
M_{DC1}	('k)	1,794
DC2	(k/ft.)	0.180
M_{DC2}	('k)	218
DW	(k/ft.)	0.338
M_{DW}	('k)	408
M_{L+IM}	('k)	1,717

INTERIOR BEAM REACTION TABLE		Abut.
R_{DC1}	(k)	73.0
R_{DC2}	(k)	8.9
R_{DW}	(k)	16.6
R_{L+IM}	(k)	92.0
R (Total)	(k)	190.5

DESIGNED - S.M.S.	
CHECKED - M.D.C.	
DRAWN - D.A.B.	
CHECKED - S.W.M.	

I Non-composite moment of inertia of beam section ($in.^4$).

I' Composite moment of inertia of beam section (in^4).

S_b Non-composite section modulus for the bottom fiber of the prestressed beam (in^3).

S_b' Composite section modulus for the bottom fiber of the prestressed beam (in^3).

S_t Non-composite section modulus for the top fiber of the prestressed beam (in^3).

S_t' Composite section modulus for the top fiber of the prestressed beam (in^3).

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

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

DC2 Un-factored long-term composite (Superimposed excluding future wearing surface) dead loat (kips/ft.)

M_{DC2} Un-factored moment due to long-term composite (Superimposed excluding future wearing surface) dead load (kips/ft)

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

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

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

NOTES

Inserts for ¾" ϕ threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams.
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.
Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).
A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.
The top and bottom plates shall be AASHTO M270 Grade 50.
The bottom plates and studs shall be galvanized according to AASHTO M111.
Threaded rods shall be ASTM F 1554 Grade 55.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams, 63"	Foot	500

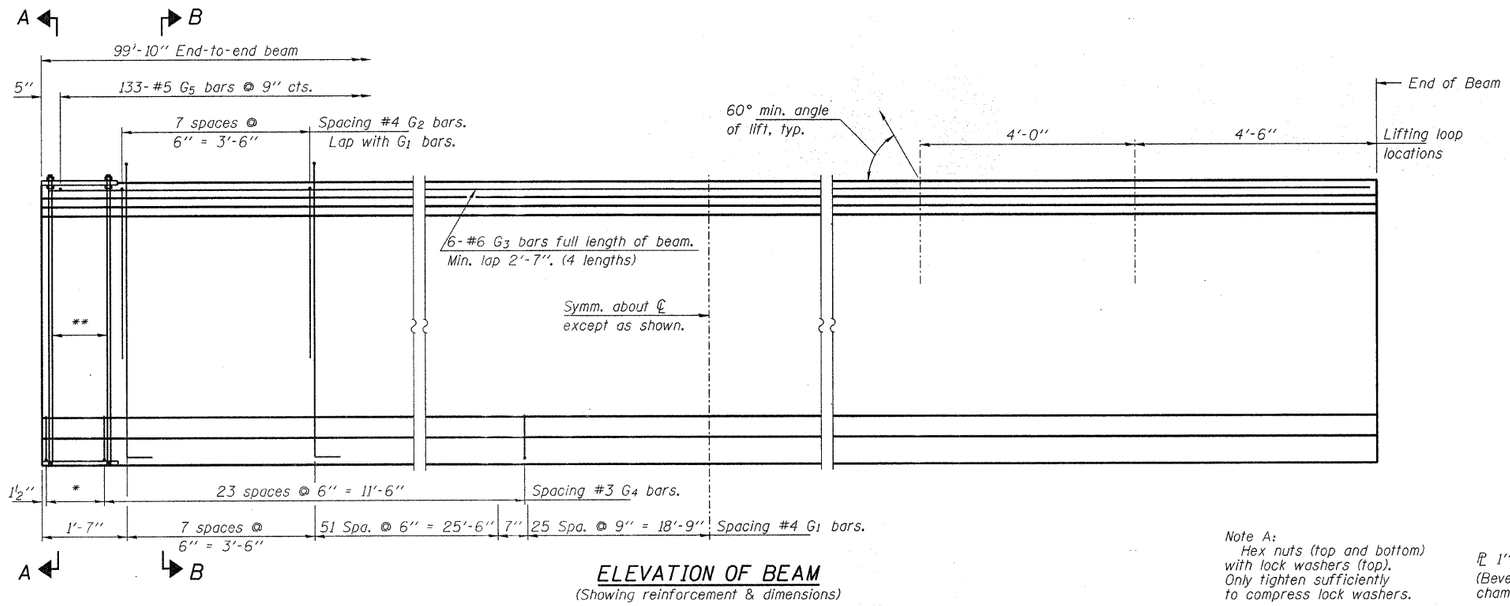
FRAMING PLAN & BEAM DETAILS
STRUCTURE NO. 102 – 3210

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

PROJECT NUMBER: 07.0373.130 | DATE: 02/02/09

SHEET NO. 10
16 SHEETS

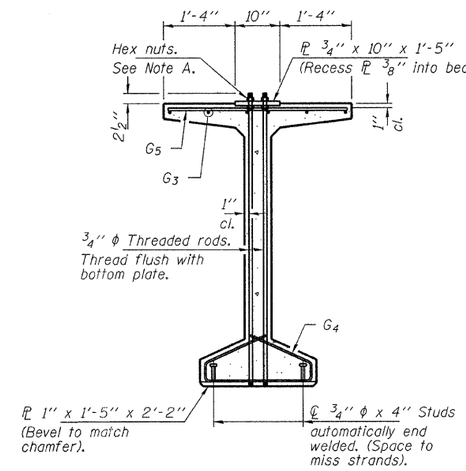
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	38
METAMORA ROAD DISTRICT		CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



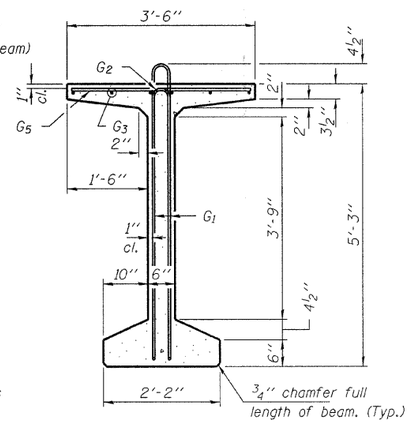
ELEVATION OF BEAM
(Showing reinforcement & dimensions)

* 4 Spa. @ 3¼" = 1'-1".
** 5-¾" ϕ threaded dowel rods @ 3¼" cts., Each Face.

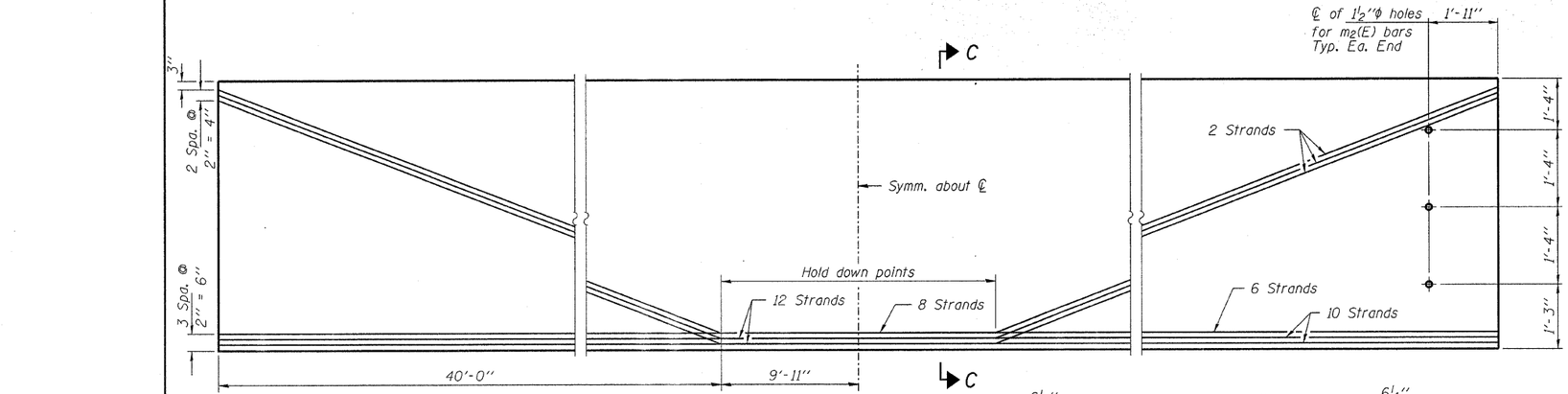
Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.



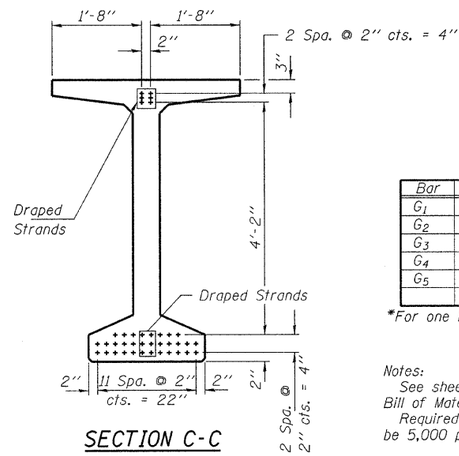
SECTION A-A



SECTION B-B



ELEVATION OF BEAM
(Showing prestressing steel)



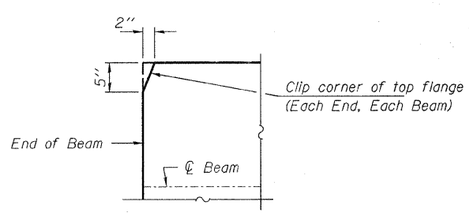
SECTION C-C

*BAR LIST

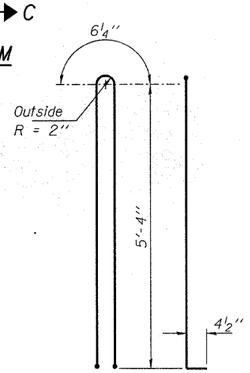
Bar	No.	Size	Length	Shape
G_1	169	#4	11'-11"	⊓L
G_2	16	#4	10'-2"	⊓
G_3	24	#6	26'-11"	—
G_4	56	#3	4'-11"	⌓
G_5	133	#5	3'-4"	—

*For one beam only. For information only.

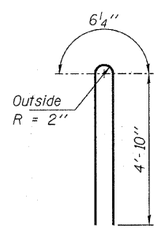
Notes:
See sheet 13 for additional details and Bill of Material.
Required release strength, f'ci, shall be 5,000 psi.



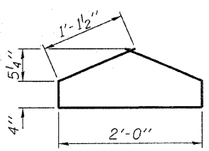
CORNER DETAIL
(Looking Down)
(Symetrical by 180° rotation)



BAR G1



BAR G2



BAR G4

DESIGNED -	S.M.S.
CHECKED -	M.D.C.
DRAWN -	D.A.B.
CHECKED -	S.W.M.

HAMPTON, LENZINI & RENWICK, INC.
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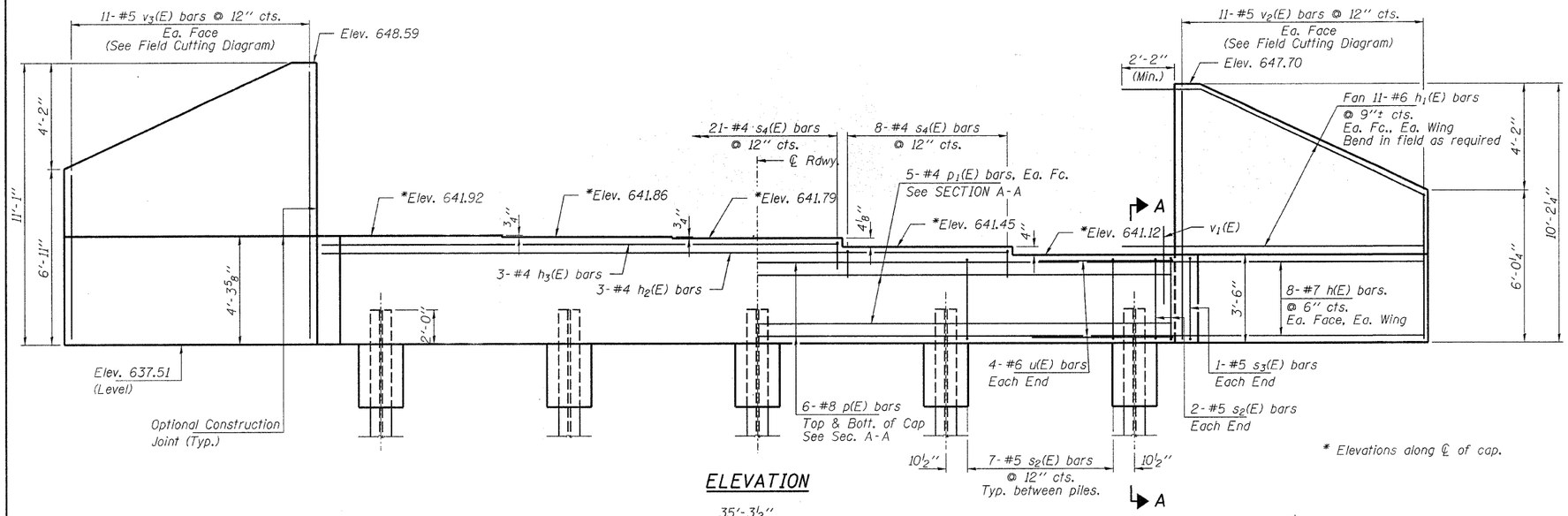
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
PROJECT NUMBER: 07.0373.130 | DATE: 02/02/09

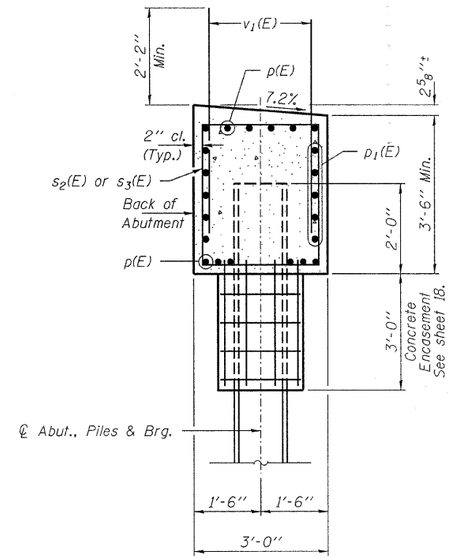
SHEET NO. 11
16 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	39
METAMORA ROAD DISTRICT		CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

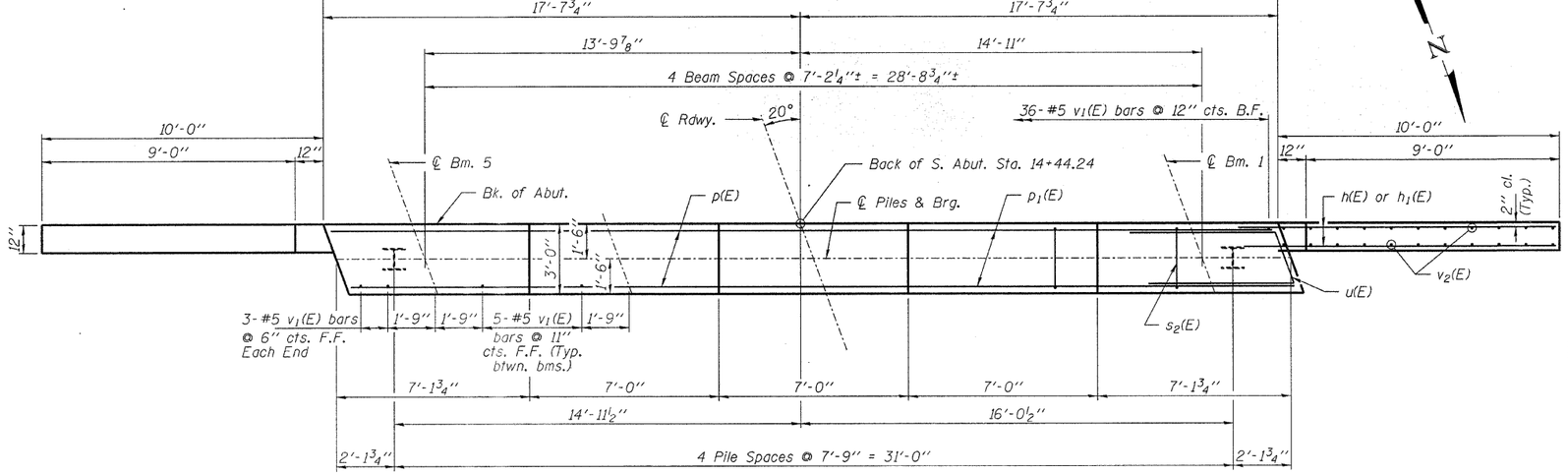
BEAM DETAILS
STRUCTURE NO. 102 – 3210



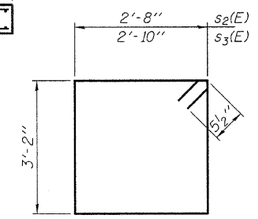
ELEVATION



SECTION A-A



PLAN



BAR s2(E) or s3(E)

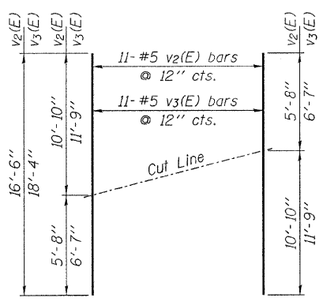
BILL OF MATERIAL - S. ABUT.

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	32	#7	13'-6"	——
h1(E)	44	#6	14'-0"	——
h2(E)	3	#4	27'-3"	——
h3(E)	3	#4	20'-3"	——
p(E)	12	#8	34'-11"	——
p1(E)	10	#4	34'-11"	——
s2(E)	32	#5	12'-7"	□
s3(E)	2	#5	12'-11"	□
s4(E)	29	#4	5'-8"	⊓
u(E)	8	#6	12'-9"	▱
v1(E)	62	#5	4'-6"	——
v2(E)	11	#5	16'-6"	——
v3(E)	11	#5	18'-4"	——

Concrete Structures	Cu. Yd.	22.6
Concrete Encasement	Cu. Yd.	2.6
Reinf. Bars, Epoxy Coated	Pound	4,660
Furnishing Steel Piles HP14x73	Foot	136
Driving Piles	Foot	136
Test Pile Steel HP14x73	Each	1
Pile Shoes	Each	4

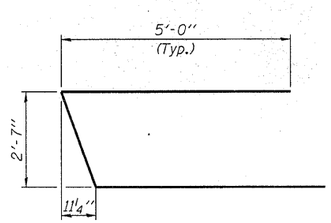
Notes:
For Bar Splicer details see sheet 17.
For Concrete Encasement details see sheet 18.
Pour steps monolithically with cap.

SOUTH ABUTMENT
STRUCTURE NO. 102 – 3210

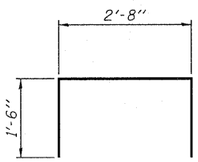


FIELD CUTTING DIAGRAM

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



BAR u(E)



BAR s4(E)

PILE DATA

Type _____ Steel HP14x73 w/Pile Shoe
No. Req'd. (S. Abut.) _____ *5
Factored Resistance Available (Rf) ___ 276 Kips/Pile
Nominal Required Bearing (Rn) _____ 578 Kips/Pile
Est. Length _____ 34 Ft/Pile

Notes: * Includes one test pile to be driven in permanent locations at the South Abutment.

The Steel H-Piles shall be according to AASHTO M270 Grade 50.

The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.

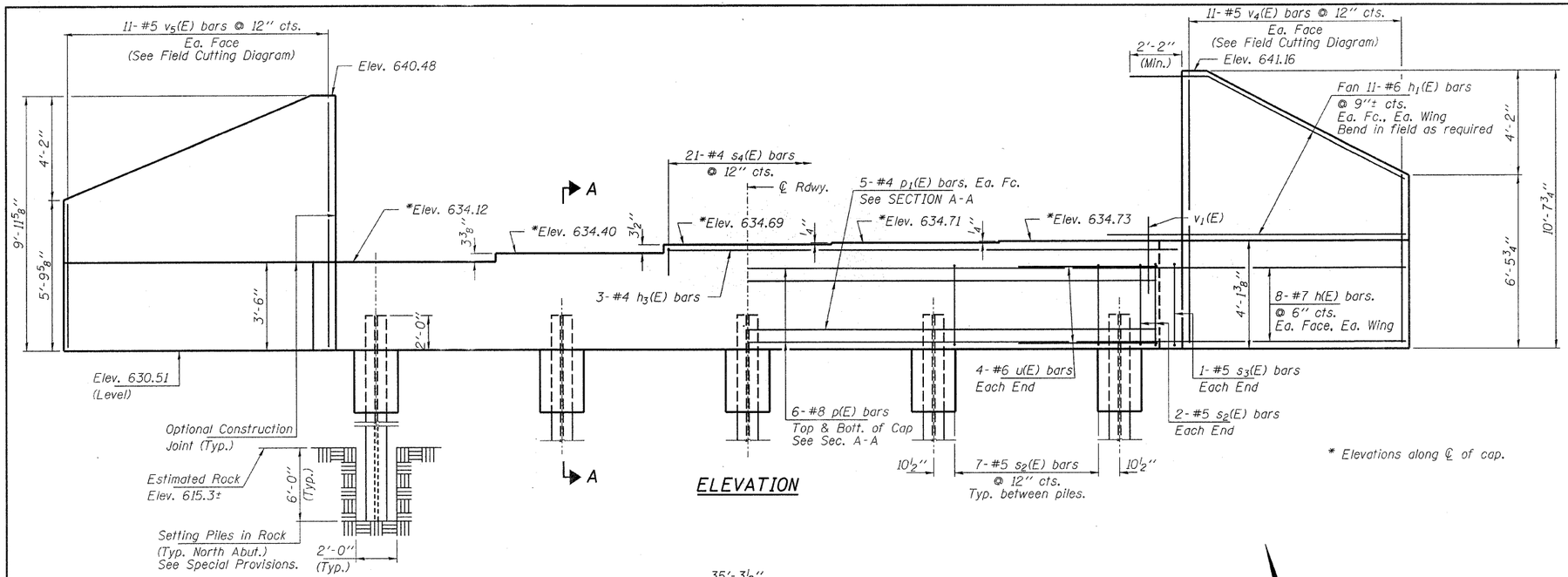
DESIGNED -	S.M.S.
CHECKED -	M.D.C.
DRAWN -	D.A.B.
CHECKED -	S.W.M.

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

PROJECT NUMBER: 07.0373.130 | DATE: 02/02/09

SHEET NO. 12
16 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	40
METAMORA ROAD DISTRICT		CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



BILL OF MATERIAL - N. ABUT.

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	32	#7	13'-6"	
h1(E)	44	#6	14'-0"	
h3(E)	3	#4	20'-3"	
p(E)	12	#8	34'-11"	
p1(E)	10	#4	34'-11"	
s2(E)	32	#5	12'-7"	
s3(E)	2	#5	12'-11"	
s4(E)	21	#4	5'-8"	
u(E)	8	#6	12'-9"	
v1(E)	62	#5	4'-6"	
v4(E)	11	#5	16'-2"	
v5(E)	11	#5	15'-2"	
Concrete Structures			Cu. Yd.	22.0
Concrete Encasement			Cu. Yd.	2.6
Reinf. Bars, Epoxy Coated			Pound	4,530
Furnishing Steel Piles HP14x73			Foot	120
Setting Piles in Rock			Each	5

Notes:
For Bar Splicer details see sheet 17.
For Concrete Encasement details see sheet 18.
Pour steps monolithically with cap.

PILE DATA

Type ---------- Steel HP14x73
No. Req'd. (N. Abut.) ---------- 5
Factored Resistance Available (Rf) --- 276 Kips/Pile
Est. Length ---------- 24 Ft/Pile

Notes: The Steel H-Piles shall be according to AASHTO M270 Grade 50.

NORTH ABUTMENT
STRUCTURE NO. 102 – 3210

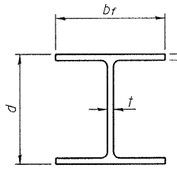
DESIGNED	S.M.S.
CHECKED	M.D.C.
DRAWN	D.A.B.
CHECKED	S.W.M.

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

PROJECT NUMBER: 07.0373.130 | DATE: 02/02/09

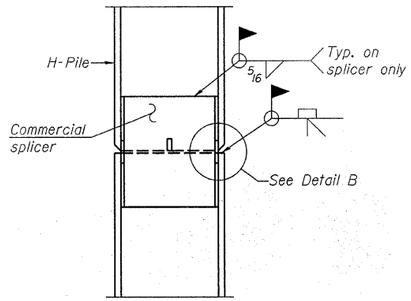
SHEET NO. 13
16 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	41
METAMORA ROAD DISTRICT		CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

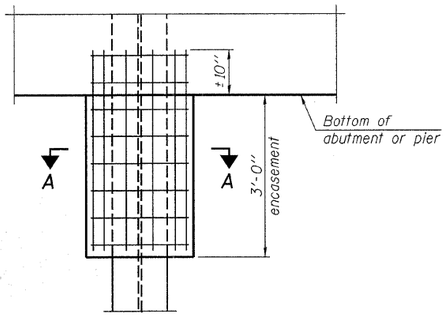


STEEL PILE TABLE

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



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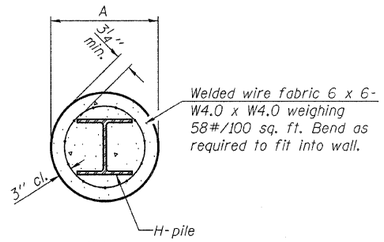
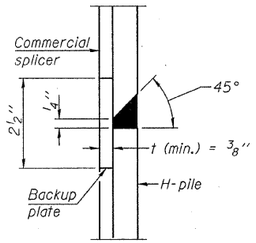


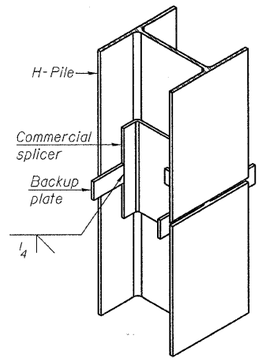
Note:
Forms for encasement may be omitted when soil conditions permit.

SECTION A-A

PILE ENCASEMENT

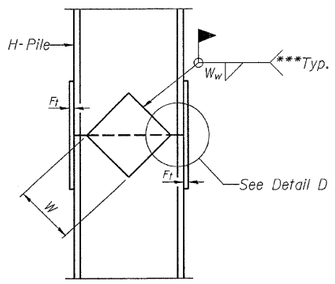


DETAIL "B"

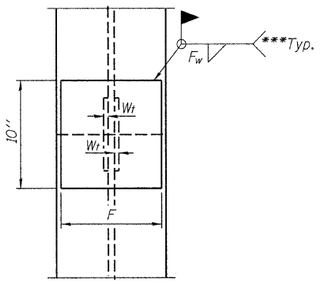


ISOMETRIC VIEW

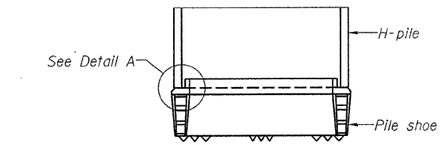
WELDED COMMERCIAL SPLICE



ELEVATION



END VIEW



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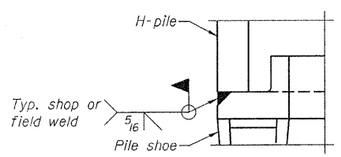
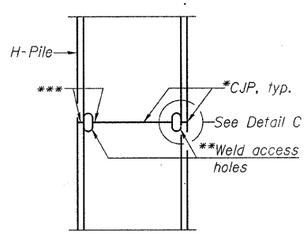


DETAIL A

H-PILE SHOE ATTACHMENT



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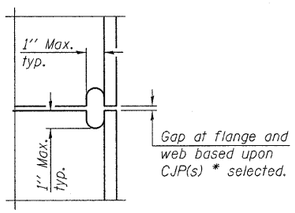
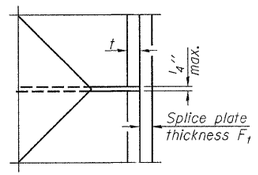


DETAIL C

COMPLETE PENETRATION WELD SPLICE



DETAIL D

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

WELDED PLATE FIELD SPLICE

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

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

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

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

HP PILE DETAILS
STRUCTURE NO. 102 – 3210

DESIGNED -	S.M.S.
CHECKED -	M.D.C.
DRAWN -	D.A.B.
CHECKED -	S.W.M.

F-HP 10-1-08

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
HLR
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

PROJECT NUMBER: 07.0373.130 DATE: 02/02/09

SHEET NO. 14
16 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	42
METAMORA ROAD DISTRICT		CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

WHITNEY & ASSOCIATES
INCORPORATED
2405 West Nebraska Avenue
PEORIA, ILLINOIS 61604

BORING LOG

BORING NO. B-01
DATE 06-14-06
W. & A. FILE NO. 3646
SHEET 1 OF 4
PROJECT SECTION #05-08145-00-BR (STRUCTURE #3039)
LOCATION Woodford County, Illinois
BORING LOCATION ** Station 10+30; 6' Left Of Centerline
DRILLED BY Fehl
BORING TYPE Hollow Stem Auger
WEATHER CONDITIONS Partly Cloudy & Mild
SOIL CLASSIFICATION SYSTEM U.S.B.S.C.
SEEPAGE WATER ENCOUNTERED AT ELEVATION None
GROUND SURFACE ELEVATION 99.1 (639.0)*
GROUND WATER ELEVATION AT 2 HRS. None
BORING DISCONTINUED AT ELEVATION 65.6
GROUND WATER ELEVATION AT COMPLETION None

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
Oil And CHIPS	2.5"						
Brown, Medium-Grained SAND And GRAVEL	18.0"						
Medium, Brown And Gray SANDY CLAY LOAM With Some Fine-Grained Gravel	04	SS	4 3 3(6)	1.3	0.8	-	13
		SS	4 3 3(6)	1.2	0.7	-	14
Medium, Brown And Gray SANDY CLAY With Some Fine-Grained Gravel	08	SS	3 4 3(7)	0.6	0.6	-	15
	12	SS	4 4 4(8)	1.1	0.6	-	14
Stiff, Brown And Gray SANDY CLAY With Some Fine-Grained Gravel		SS	2 2 3(5)	0.8	0.7	-	14
	16	SS	3 3 3(6)	1.4	1.3	-	13
		SS	4 5 11(16)	1.5	1.2	-	14
Hard, Gray, Unweathered GLACIAL SANDY CLAY TILL	20	SS	18 22 26(48)	4.5+	5.8	-	11
		SS	15 25 31(56)	4.5+	6.3	-	11
	24	SS	30 19 24(43)	4.5+	-	-	5
Hard, Light Gray LIMESTONE (615.0)							

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE
Qp - CALIBRATED PENETROMETER READING - T.S.F.
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

* Center of bridge = 100.0' assumed = 639.9' USGS

** Sta. 15+22.6, 14.1' Rt.

BORING LOG
(CONTINUATION)

BORING NO. B-01
DATE 06-14-06
PROJECT Section #05-08145-00-BR (Structure #3039)
SHEET 2 OF 4
LOCATION Woodford County, Illinois
W. & A. FILE NO. 3646

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
See Sheet 1 of 4							
		SS	42 88/3"	4.5+	-	-	5
	30	SS	97/1"	4.5+	-	-	4
AUGER REFUSAL AT (-)33.5 FEET							
EXPLORATORY BORING DISCONTINUED	34						
	38						
	42						
	46						
	50						
	54						

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE
Qp - CALIBRATED PENETROMETER READING - T.S.F.
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

DESIGNED - S.M.S.
CHECKED - M.D.C.
DRAWN - D.A.B.
CHECKED - S.W.M.

BORING 1

BORINGS
STRUCTURE NO. 102 – 3210

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
PROJECT NUMBER: 07.0373.130 DATE: 02/02/09

SHEET NO. 15
16 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	43
METAMORA ROAD DISTRICT		CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BORING NO. B-02
DATE 06-14-06
W. & A. FILE NO. 3646
SHEET 3 OF 4

WHITNEY & ASSOCIATES
INCORPORATED
2406 West Nebraska Avenue
PEORIA, ILLINOIS 61604

BORING LOG

PROJECT SECTION #05-08145-00-BR (STRUCTURE #3039)
LOCATION Woodford County, Illinois
BORING LOCATION ** Station 9+76; 6' Left Of Centerline
DRILLED BY Fehl
BORING TYPE Hollow Stem Auger
WEATHER CONDITIONS Partly Cloudy & Mild
SOIL CLASSIFICATION SYSTEM U.S.B.S.C.
SEEPAGE WATER ENCOUNTERED AT ELEVATION None
GROUND SURFACE ELEVATION 101.5 (640.4)*
GROUND WATER ELEVATION AT – HRS. –
BORING DISCONTINUED AT ELEVATION 64.5
GROUND WATER ELEVATION AT COMPLETION None

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
OIL And CHIPS	3.5'						
Brown, Medium-Grained SAND And GRAVEL	20.0'						
Medium-Density, Brown, Fine-Grained SAND With Some Fine-Grained Gravel	04	SS	4 5 6(11)	-	-	-	5
Medium-Density, Brown, Fine- To Medium-Grained SAND With Some Fine-Grained Gravel And A Trace Of Silty Clay		SS	5 7 8(15)	-	-	-	7
Stiff, Gray And Light Brown SANDY CLAY	08	SS	3 4 5(9)	1.8	1.5	-	15
Very Stiff, Gray And Light Brown SANDY CLAY		SS	4 4 5(9)	3.5	3.2	-	13
Very Stiff, Brown And Gray, Weathered GLACIAL SANDY CLAY TILL	12	SS	3 4 4(8)	3.0	2.6	-	14
Hard, Brown And Gray, Weathered GLACIAL SANDY CLAY TILL	16	SS	4 4 4(8)	4.3	4.1	-	12
Hard, Gray, Unweathered GLACIAL SANDY CLAY TILL		SS	8 10 11(21)	4.5+	4.2	-	10
Very Stiff, Gray, Unweathered GLACIAL SANDY CLAY TILL	20	SS	10 14 16(30)	3.6	3.1	-	10
		SS	15 12 14(26)	4.0	3.7	-	9
	24						
Hard, Gray, Unweathered GLACIAL SANDY CLAY TILL		SS	16 24 28(52)	4.5+	-	-	7

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE
Qp - CALIBRATED PENETROMETER READING - T.S.F.
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

* Center of bridge = 100.0' assumed = 639.9 USGS

** Sta. 14+67.8, 8.8' Rt.

BORING NO. B-02
(CONTINUATION)
DATE 06-14-06
PROJECT Section #05-08145-00-BR (Structure #3039)
SHEET 4 OF 4
LOCATION Woodford County, Illinois
W. & A. FILE NO. 3646

DESCRIPTION	DEPTH IN FEET	SAMPLE TYPE	N	Qp	Qu	Dd	Mc
See Sheet 3 of 4							
Very Stiff, Gray SANDY LOAM		SS	12 17 19(36)	3.5	-	-	13
	30	SS	22 28 22(50)	4.0	-	-	12
	34						
Hard, Light Gray LIMESTONE (606.4)		SS	110/1"	4.5+	-	-	5
AUGER REFUSAL AT (-)37.0 FEET							
EXPLORATORY BORING DISCONTINUED	38						
	42						
	46						
	50						
	54						

N - BLOWS DELIVERED PER FOOT BY A 140 LB. HAMMER FALLING 30 INCHES
SS - SPLIT SPOON SAMPLE
ST - SHELBY TUBE SAMPLE
Qp - CALIBRATED PENETROMETER READING - T.S.F.
Qu - UNCONFINED COMPRESSIVE STRENGTH - T.S.F.
Dd - NATURAL DRY DENSITY - P.C.F.
Mc - NATURAL MOISTURE CONTENT - %

WHITNEY & ASSOCIATES
PEORIA, ILLINOIS

DESIGNED	S.M.S.
CHECKED	M.D.C.
DRAWN	D.A.B.
CHECKED	S.W.M.

BORING 2

BORINGS
STRUCTURE NO. 102-3210

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
PROJECT NUMBER: 07.0373.130 DATE: 02/02/09

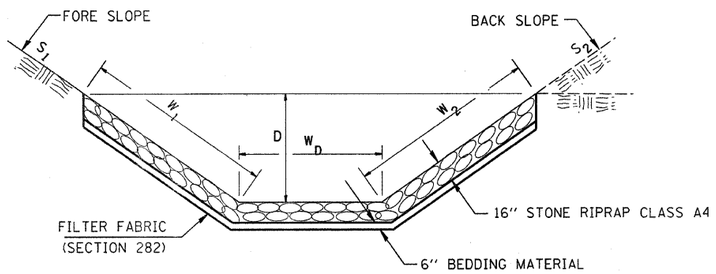
SHEET NO. 16
16 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	44
METAMORA ROAD DISTRICT		CONTRACT NO. 89448		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	45
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 89448

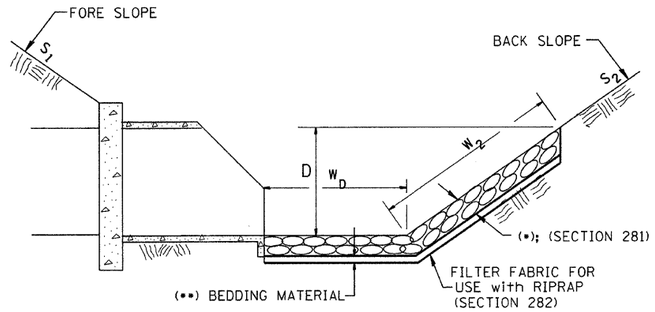
CASE 1
(DITCH)



STONE RIPRAP CLASS A4				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m^2)
LT. STA. 570+18 TO LT. STA. 571+35	12	117	81	160
LT. STA. 569+95 TO LT. STA. 570+60	12	95	66	130
TOTAL			147	290

(1) WIDTH = $W_1 + W_2 + W_D$

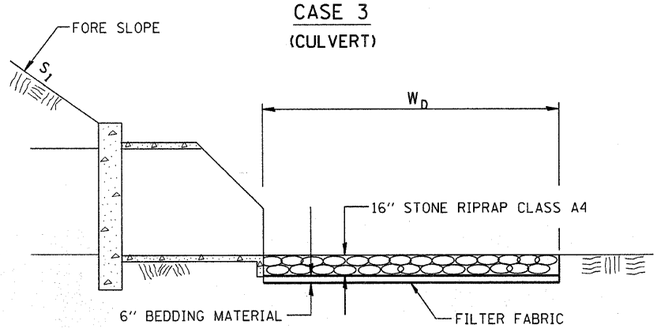
CASE 2
(CULVERT & SLOPE)



(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m^2)
TOTAL				

(1) WIDTH = $W_2 + W_D$

CASE 3
(CULVERT)



STONE RIPRAP CLASS A4				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m^2)
RT. STA. 571+97.25	8	8	5.5	7
LT. STA. 571+97.25	8	8	5.5	7
TOTAL			11	14

(1) WIDTH = W_D

Designer NOTES:
1. Designer to modify this Special Detail Sheet, as needed for inclusion in plans.
2. (•) Designer to specify pay item including material, quality, and gradation.
3. (••) Designer to specify thickness of bedding material.
4. Include District Special Provision if needed.

PLOT DATE = 2/2/2009 FILE NAME = 0702373-sht-dist-std-sds.dgn

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

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

DATE	REVISIONS	BY
1-1-97	RENUM. A-12.02, NEW REVISION BOX	T.P.
12-1-97	CORRECT FILTER FABRIC LEADER ARROW	J.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.

ILLINOIS DEPARTMENT OF TRANSPORTATION

SPECIAL DETAIL SHEET

RIPRAP DITCH FOR EROSION PROTECTION

CADD DETAIL 281001-D4

SCALE: NOT DRAWN TO SCALE

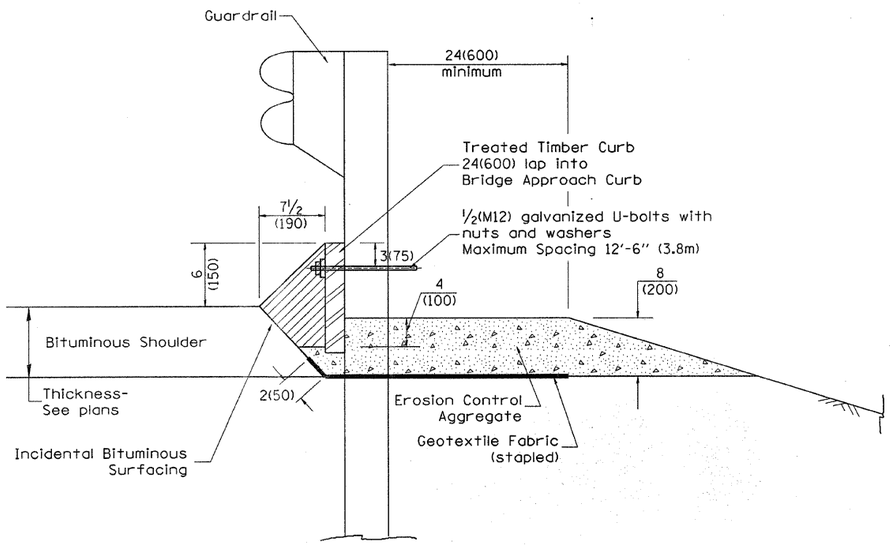
DRAWN BY CADD

CHECKED BY

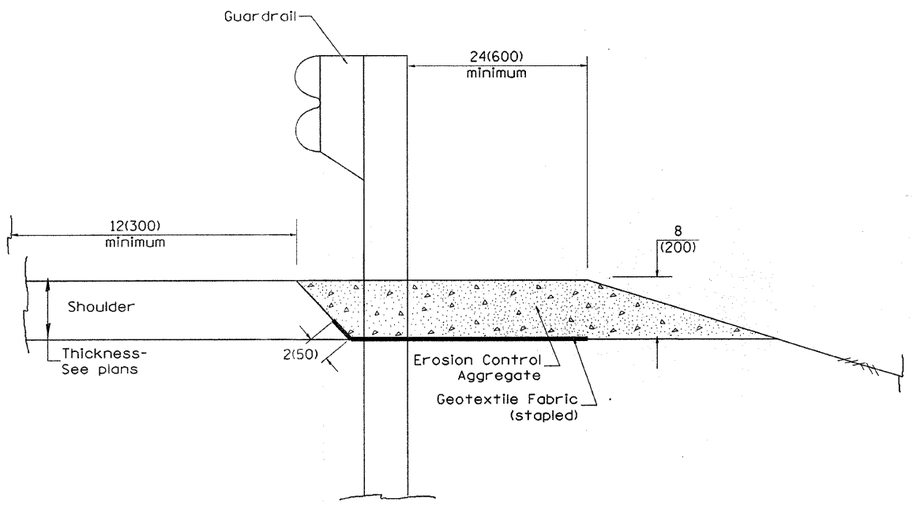
281001-D4

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 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.

PLOT DATE :2/2/2009
FILE NAME = c:\projects\630101-d4(1).dgn



TYPICAL SECTION WITH EROSION CONTROL CURB



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	46
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 89448

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 0.40 lbs./cu. ft. (6.4 kg/m³)

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 12(300) 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.

All dimensions are in inches (millimeters) 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.
10-16-06	REVISED TO 2007 SPEC.	M.A.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT CADD STANDARD

GUARDRAIL EROSION CONTROL TREATMENTS

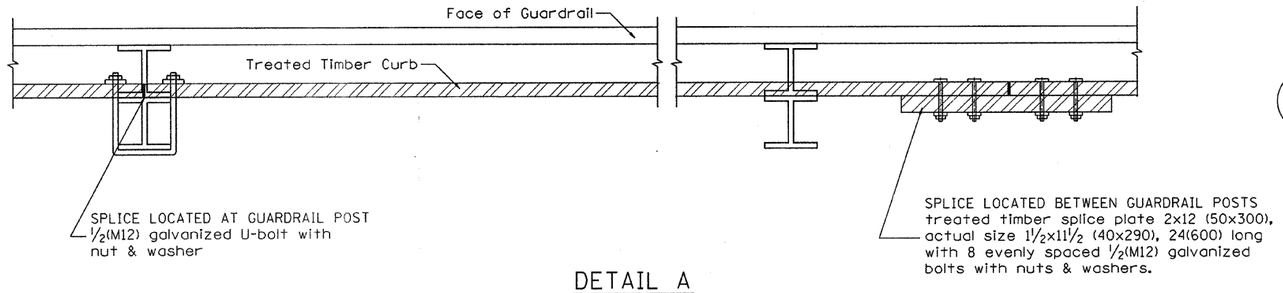
CADD STD NO. 630101-D4(1)
SCALE: NOT DRAWN TO SCALE

SHEET 1 OF 2
DRAWN BY CADD
CHECKED BY

630101-D4(1)

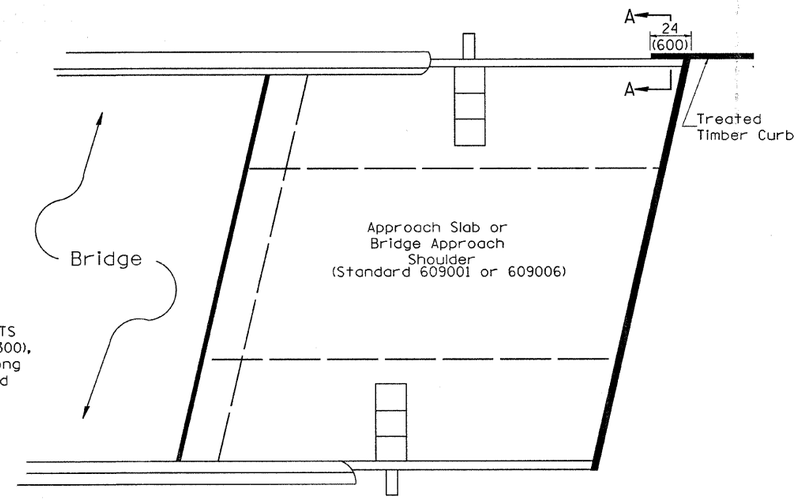
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
50	05-08145-00-BR	WOODFORD	47	47
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 89448



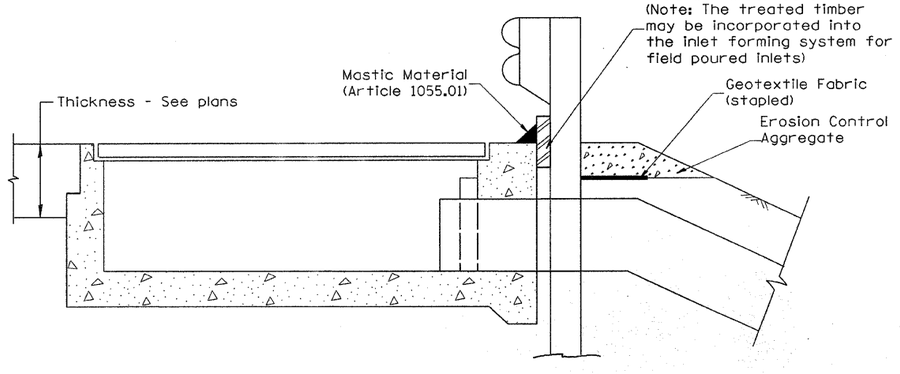
DETAIL A

(Typical Treated Timber Splices)

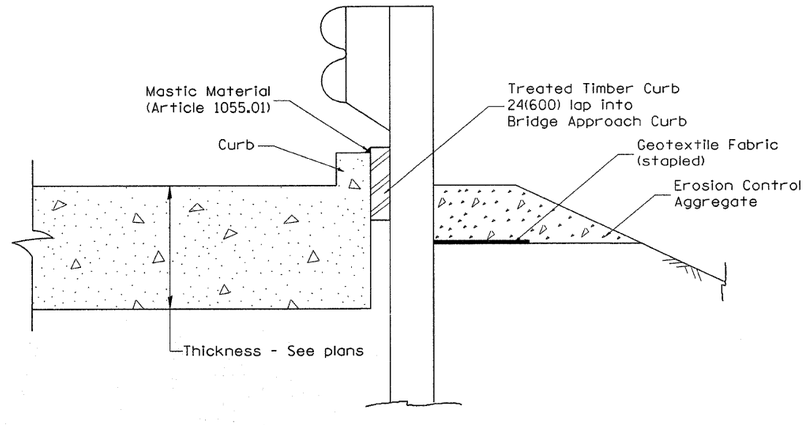


PLAN VIEW

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



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



SECTION A-A

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT CADD STANDARD

GUARDRAIL EROSION
CONTROL TREATMENTS

CADD STD NO. 630101-D4(2)

SCALE: NOT DRAWN TO SCALE

SHEET 2 OF 2
DRAWN BY CADD
CHECKED BY

630101-D4(2)

PLOT DATE :2/2/2009 FILE NAME = 070373-sht-district4stds.dgn