

HIGH PRIORITY SAFETEA – LU AND HIGHWAY BRIDGE PROGRAM

F.A.S. 662 EXTENSION OVER EMBARRAS RIVER TO IL 130 CUMBERLAND COUNTY, ILLINOIS

SECTION # 01-00061-00-BR
 PROJECT # HPP-RS-1815(002)
 CONTRACT # 95552
 JOB # C-97-068-08

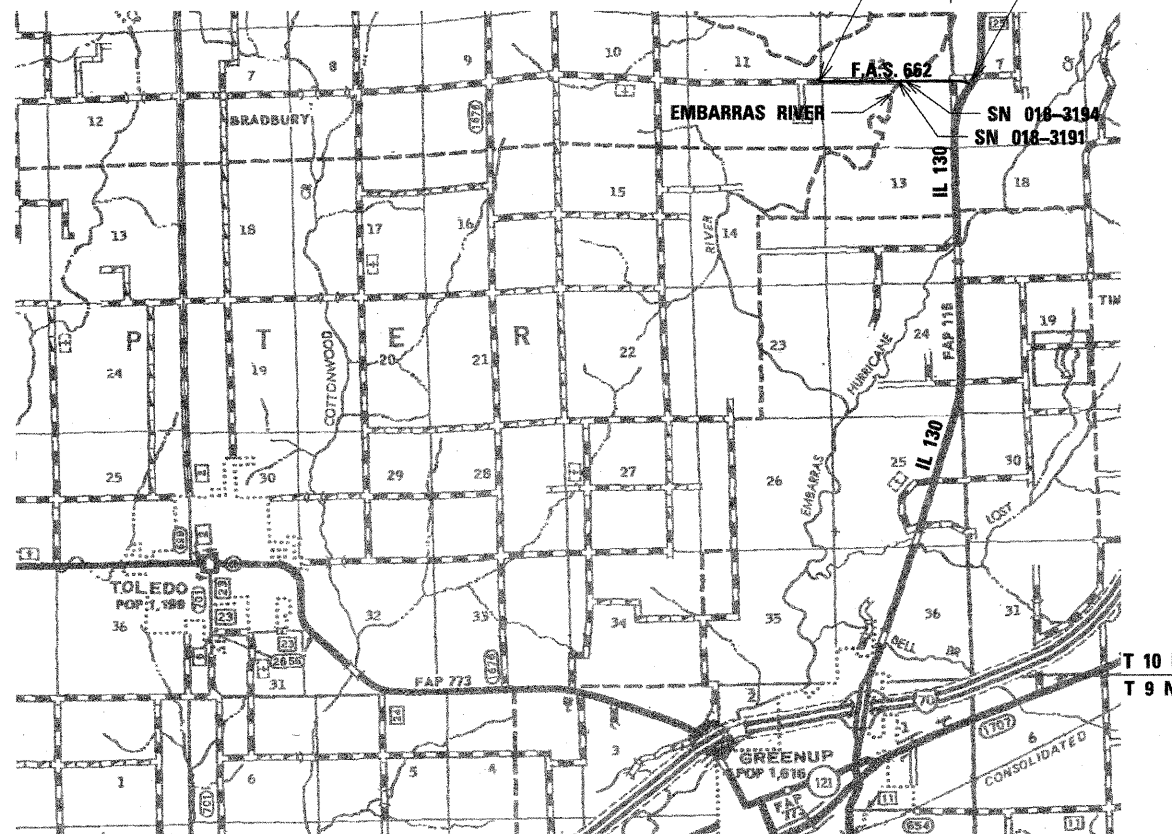
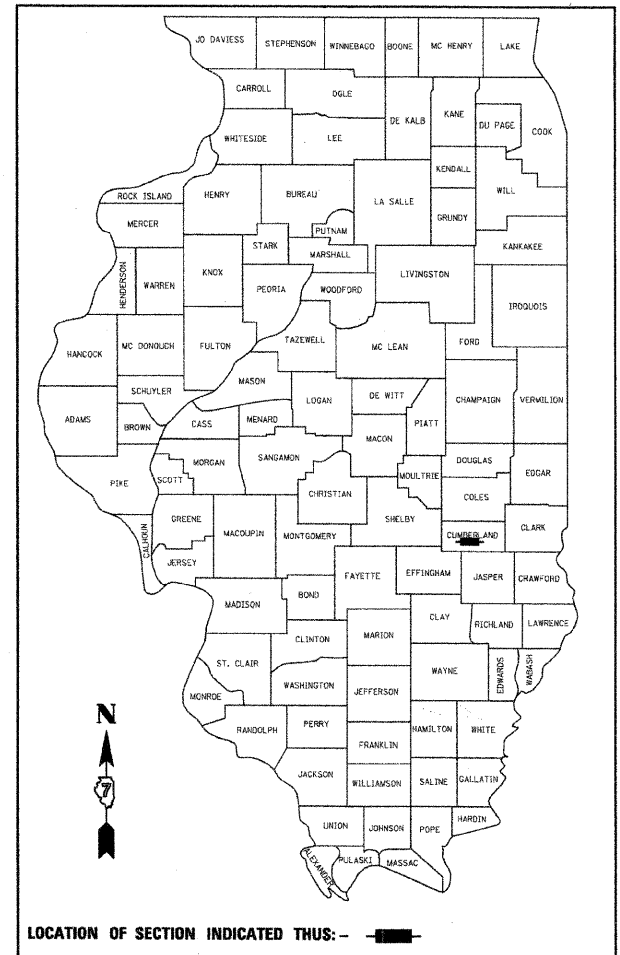
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LIST OF STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
420401-06	BRIDGE APPROACH PAVEMENT
515001-02	NAME PLATE FOR BRIDGES
542301-01	PRECAST REINFORCED CONCRETE FLARED END SECTION
542306-01	PRECAST REINFORCED CONCRETE ELLIPTICAL END SECTION
542401	METAL END SECTION FOR PIPE CULVERTS
542406	METAL END SECTIONS FOR PIPE ARCHES
601101	CONCRETE HEADWALL FOR PIPE DRAIN
602301-01	INLET - TYPE A
604006-03	FRAME AND GRATE TYPE 3
606001-03	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-03	PC CONCRETE ISLANDS AND MEDIANS
630301-04	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-04	TRAFFIC BARRIER TERMINAL, TYPE 2
701001-01	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 4.5M (15') AWAY
701006-02	OFF-RD OPERATIONS, 2L, 2W, 4.5M (15') TO 600MM (24") FROM EDGE OF PAVEMENT
701201-02	LANE CLOSURE, 2L, 2W DAY ONLY, FOR SPEEDS >= 45 MPH
701901	TRAFFIC CONTROL DEVICES
720001	SIGN PANEL MOUNTING DETAILS
720006-01	SIGN PANEL ERECTION DETAILS
720011	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001	TELESCOPING STEEL SIGN SUPPORT
729001	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
731001	BASE FOR TELESCOPING STEEL SIGN SUPPORTS
B.L.R. 21-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
B.L.R. 22-5	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (2L2W-ROAD CLOSED TO THRU TRAFFIC)
B.L.R. 24-1	MAILBOX TURNOUT FOR LOCAL ROADS
B.L.R. 26	STEEL PLATE BEAM GUARDRAIL (27.5) INCH HEIGHT
B.L.R. 27	TRAFFIC BARRIER TERMINAL TYPE 5A

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AREA LOCATION PLAN

NOT TO SCALE

FUNCTIONAL CLASSIFICATION = MAJOR COLLECTOR
 DESIGN DESIGNATION ADT = 500 (2028)
 DESIGN SPEED = 40 mph
 GROSS LENGTH OF PROJECT = 1.20 mi. (6,350 FT)
 NET LENGTH OF PROJECT = 1.20 mi. (6,350 FT)

UTILITY NOTE

THE LOCATIONS OF THOSE BURIED AND ABOVEGROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVEGROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES, REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

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



SIGNATURE
 01/04/08
 DATE
 LIC. EXP. DATE: 11/30/09

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

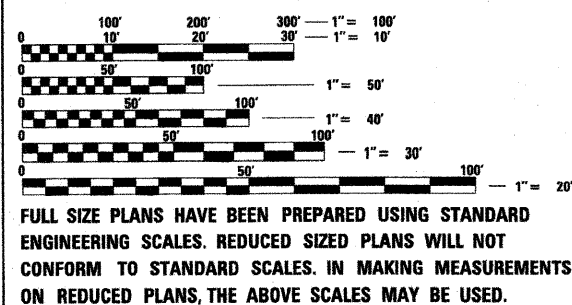
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 CUMBERLAND COUNTY, COUNTY ENGINEER

PASSED 6/10/2008
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 DISTRICT 7 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID
 BASED ON LIMITED
 REVIEW

6/10/2008
 [Signature]
 DEPUTY DIRECTOR OF HIGHWAYS, REGION 4 ENGINEER

PROJECT ENGINEER – MICHAEL MENDENHALL (217)788-2450
 PROJECT MANAGER – JIM MOLL (217)788-2450



GENERAL NOTES

1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

COLES-MOULTRIE ELECTRIC COOPERATIVE
 MEDIACOM
 VERIZON NORTH, INC.
 FOR CONTACTS, SEE CONTACT INFORMATION BELOW.

ANY DAMAGE TO THE UNDERGROUND FACILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE, INCLUDING TEMPORARY REPAIRS WHICH MAY BE REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS.
 UTILITY ADJUSTMENTS SHALL BE MADE BY THE UTILITY COMPANIES UNLESS NOTED OTHERWISE.

2 SEEDING WILL BE DONE BY THE CUMBERLAND COUNTY HIGHWAY DEPARTMENT. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED AS DIRECTED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE. TEMPORARY EROSION CONTROL SEEDING SHALL BE DONE ACCORDING TO THE PLANS AND SECTION 280.04(f) OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

3 ACCESS TO ALL ENTRANCES SHALL BE MAINTAINED AT ALL TIMES.

4 IN ADDITION TO THE REQUIREMENTS OF ARTICLE 107.16, THE CONTRACTOR SHALL PROTECT THE SURFACE OF ALL BRIDGE DECKS AND BRIDGE APPROACH PAVEMENTS IN A MANNER SATISFACTORY TO THE ENGINEER BEFORE ANY EQUIPMENT IS ALLOWED TO CROSS THE STRUCTURE. PROTECTION SHALL BE PROVIDED FOR ALL EQUIPMENT, AS DEFINED IN ARTICLE 101.17, REGARDLESS IF TRACK MOUNTED OR WHEELED.

5 BEFORE ORDERING PIPE CULVERTS, PIPE DRAINS, END SECTIONS OR INLETS THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR EXACT LENGTHS AND QUANTITIES REQUIRED.

6 EXCAVATION IN GRAVEL OR OIL AND CHIP ROADWAYS IS TO BE PAID AS EARTH EXCAVATION.

7 ALL DRAINAGE STRUCTURES SHALL BE FREE OF SILT, DEBRIS, OR OTHER SUCH OBSTRUCTIONS AT THE TIME OF FINAL INSPECTION. THE CLEANING OF THESE DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE VARIOUS PAY ITEMS INVOLVED.

8 TREES THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS SHALL BE REMOVED BY CUMBERLAND COUNTY HIGHWAY DEPARTMENT AS DIRECTED BY THE ENGINEER. ANY TREE DUE TO ITS LOCATION AND DEEMED SUITABLE FOR SAVING BY THE ENGINEER SHALL BE PROTECTED DURING CLEARING AND SUBSEQUENT CONSTRUCTION OPERATIONS. THIS WILL NOT BE PAID FOR, BUT SHALL BE CONSIDERED AS PART OF CONSTRUCTION OPERATIONS.

9 GRADING SHALL BE DONE BY HAND AROUND LIGHT POLES, UTILITY POLES, SIGN POSTS, SHRUBS, TREES OR OTHER NATURAL OR MAN-MADE OBJECTS WHERE SHALLOW FILLS OR CUTS ARE ADJACENT TO THE ITEMS. IT IS THE INTENT THAT THE LIMITS OF CONSTRUCTION BE SUCH AS TO PRESERVE IN THE ORIGINAL STATE AS MUCH AREA OF TEMPORARY EASEMENTS AS POSSIBLE. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

10 WHERE SMALL QUANTITIES OF LIME STABILIZATION ARE SHOWN IN THE PLANS, SUBBASE GRANULAR MATERIAL, TYPE B MAY BE SUBSTITUTED AND CONSTRUCTED ACCORDING TO THE APPLICABLE PORTIONS OF SECTION 311. THE DEPTH OF THE SUBBASE GRANULAR MATERIAL SHALL BE THE SAME AS THE PROPOSED DEPTH OF THE LIME STABILIZATION. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR PROCESSING LIME MODIFIED SOIL MIXTURE OF THE DEPTH SPECIFIED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

11 AT LOCATIONS WHERE END SECTIONS ARE SPECIFIED, CAST-IN-PLACE CONCRETE HEADWALLS WILL NOT BE ALLOWED.

12 ALL THE ENTRANCE CULVERT LENGTHS SHOWN IN THE PLANS WERE CALCULATED WITH THE ASSUMPTION THAT METAL PIPES AND METAL END SECTION WOULD BE USED.

13 COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

14 THESE PLANS HAVE BEEN PREPARED USING STANDARD SYMBOLS AS INDICATED IN THESE PLANS, AND THEY SHALL TAKE PRECEDENCE OVER THOSE SHOWN ON STANDARD 000001 IF THERE IS A CONFLICT.

15 ADDITIONAL DEPTH REQUIRED IN DRAINAGE STRUCTURES DUE TO CONFLICTS WITH OTHER UTILITY LINES WILL BE CONSIDERED INCLUDED WITH THE UNIT PRICE BID FOR DRAINAGE STRUCTURES AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

16 ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

17 A 12" LAYER OF LIME STABILIZED SUBGRADE WITH A TREATMENT RATE OF 7.0% (70 LBS. OF BY-PRODUCT LIME PER SQUARE YARD OF SUBGRADE SOIL PROCESSED 1 FOOT DEEP) WAS USED FOR ESTIMATING QUANTITIES. THE EXACT PERCENT OF LIME WILL BE DETERMINED BY TESTING REPRESENTATIVE SUBGRADE SOIL SAMPLES WITH THE BY-PRODUCT LIME TO BE USED ON THE JOB.

18 ELEVATION DATA IS BASED ON NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD29).

WORK TO BE COMPLETED BY CUMBERLAND COUNTY

- TREE REMOVAL
- PERMANENT SEEDING
- FERTILIZING
- MOWING
- MULCHING FOR PERMANENT SEEDING
- A-3 SURFACE
- 2" PAVEMENT SURFACE
- FIELD TILE ADJUSTMENTS
- FENCE REMOVAL AND RE-ERECTING
- FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS
- PERMANENT SURVEY MARKERS
- GUARDRAIL REFLECTORS
- TERMINAL MARKER - DIRECT APPLIED
- TREE PLANTING
- CONSTRUCTION LAYOUT
- PAVEMENT STRIPING

UTILITY CONTACT INFORMATION

COLES-MOULTRIE ELECTRIC COOPERATIVE
 ATTENTION: MR. STEVE UNDERWOOD
 DIRECTOR OF ENGINEERING
 104 DEWITT AVE. E. MATTOON
 P.O. BOX 709
 MATTOON, ILLINOIS 61938-0709
 PHONE: (217)258-5803 OR (217)235-0341
 TOLL FREE: 1(888)661-2632

MEDIACOM
 ATTENTION: MR. DEL LINGAFELTER
 4290 BLUESTEM ROAD
 CHARLESTON, ILLINOIS 61920
 PHONE: (217)348-5533 EXT. 9

VERIZON NORTH, INC.
 ATTENTION: MS. MARY RUTH WILLIS
 110 EAST MONROE
 P.O. BOX 2675
 BLOOMINGTON, ILLINOIS 61702-2675
 PHONE: (309)827-1617



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LAYOUT	MNM/DJP	10/10/07
DRAWN	DJP	10/10/07
REVIEWED	JNM	02/04/08

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL NOTES /COMMITMENTS

SCALE: SHEET NO. 1 OF 1 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	01-00061-00-BR	CUMBERLAND	85	2
CONTRACT NO. 95552				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CODE #	ITEM	UNIT	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	27965
20400100	BORROW EXCAVATION	CU YD	20085
25100105	MULCH, METHOD 1	ACRE	2.25
25100630	EROSION CONTROL BLANKET	SQ YD	2439
* 28000255	TEMPORARY EROSION CONTROL SEEDING	ACRE	19
28000300	TEMPORARY DITCH CHECKS	EACH	37
28000400	PERIMETER EROSION BARRIER	FOOT	6199
28000500	INLET AND PIPE PROTECTION	EACH	10
28200200	FILTER FABRIC	SQ YD	2344
31001500	LIME	TON	615.3
31000600	PROCESSING LIME STABILIZED SOIL MIXTURE 12"	SQ YD	17580
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	200
42001300	PROTECTIVE COAT	SQ YD	200
50105220	PIPE CULVERT REMOVAL	FOOT	130
50300225	CONCRETE STRUCTURES	CU YD	297.6
50300255	CONCRETE SUPERSTRUCTURE	CU YD	389.6
50300260	BRIDGE DECK GROOVING	SQ YD	1478
50300280	CONCRETE ENCASEMENT	CU YD	47.8
50300300	PROTECTIVE COAT	SQ YD	1511
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	5441.5
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1
50500505	STUD SHEAR CONNECTORS	EACH	3144
50800105	REINFORCEMENT BARS	POUND	38460
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	147300
50800515	BAR SPLICERS	EACH	62
Δ 50900205	STEEL RAILING, TYPE S1	FOOT	1264
51201400	FURNISHING STEEL PILES HP10X42	FOOT	1876
51201900	FURNISHING STEEL PILES HP14X89	FOOT	952
51202305	DRIVING PILES	FOOT	2828
51203400	TEST PILE STEEL HP10X42	EACH	4
51203900	TEST PILE STEEL HP14X89	EACH	2
51500100	NAME PLATES	EACH	2
51603000	DRILLED SHAFT IN SOIL	CU YD	198.6
51604000	DRILLED SHAFT IN ROCK	CU YD	12.6
52000110	PERFORMED JOINT STRIP SEAL	FOOT	83.5
52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	8
52100400	STEEL BEARING ASSEMBLY	EACH	8
52100530	ANCHOR BOLTS, 1 1/4"	EACH	16
52100540	ANCHOR BOLTS, 1 1/2"	EACH	16
54200475	PIPE CULVERTS, TYPE 1 RCCP 60"	FOOT	71
54200643	PIPE CULVERTS, TYPE 1, CORRUGATED STEEL OR ALUMINUM CULVERT PIPE 18"	FOOT	131
54201291	PIPE CULVERTS, TYPE 2 RCCP 36"	FOOT	136
54205893	PIPE CULVERTS, TYPE 1, CORRUGATED STEEL, EQUIVALENT ROUND-SIZE 18"	FOOT	32
54206733	PIPE CULVERTS, TYPE 1, REINFORCED CONCRETE, EQUIVALENT ROUND-SIZE 18"	FOOT	165
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	4
54213705	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 60"	EACH	2
54214503	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 18"	EACH	2
54215553	METAL END SECTIONS 18"	EACH	10
* 54215763	METAL END SECTIONS, EQUIVALENT ROUND-SIZE 18"	EACH	2
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	60
58700300	CONCRETE SEALER	SQ FT	342
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	108
60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	1
60100945	PIPE DRAINS 12"	FOOT	6
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	206
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	2
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	2

X071-2A

CODE #	ITEM	UNIT	TOTAL QUANTITY
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	278
60608600	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.06	FOOT	16
60610400	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24	FOOT	59
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	132
Δ 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	2525
Δ 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	5
* Δ 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	8
* Δ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)	EACH	2
* Δ 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (FLARED)	EACH	3
67100100	MOBILIZATION	L SUM	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
* 70103700	TRAFFIC CONTROL COMPLETE	L SUM	1
72000100	SIGN PANEL - TYPE 1	SQ FT	28
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	8
72900100	METAL POST - TYPE A	FOOT	26
72900200	METAL POST - TYPE B	FOOT	24
73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	1
* 78300105	PAVEMENT MARKING REMOVAL	FOOT	252
* X0322903	SAW CUTTING, (FULL DEPTH)	FOOT	252
* XX007568	FURNISHED EXCAVATION "INSTALL ONLY"	CU YD	16165
* XX007569	POROUS GRANULAR EMBANKMENT, SPECIAL "INSTALL ONLY"	CU YD	243
* XX007570	TRENCH BACKFILL "INSTALL ONLY"	CU YD	173
* XX007571	STONE RIPRAP, CLASS A4 "INSTALL ONLY"	SQ YD	2015
* XX007572	STONE DUMPED RIPRAP, CLASS A4 "INSTALL ONLY"	SQ YD	176
* XX007573	STONE DUMPED RIPRAP, CLASS A6 "INSTALL ONLY"	SQ YD	160
* XX007574	AGGREGATE SURFACE COURSE, TYPE B "INSTALL ONLY"	TON	205
* XX007575	AGGREGATE SHOULDERS, TYPE B 6" "INSTALL ONLY"	SQ YD	4936
* XX007576	AGGREGATE BASE COURSE, TYPE B 18" "INSTALL ONLY"	SQ YD	15736

* PAY ITEM REQUIRES SPECIAL PROVISION Δ SPECIALTY ITEMS



LAYOUT: MNM/DJP 10/10/07
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET NO. 1 OF 1 SHEETS

F.A.S. RTE. 662	SECTION 01-00061-00-BR	COUNTY CUMBERLAND	TOTAL SHEETS 85	SHEET NO. 3
CONTRACT NO. 95552				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

LOCATION	EARTH EXCAVATION		EMBANKMENT	FURNISHED EXCAVATION		BORROW EXCAVATION	
	CU YD	ADJUSTED FOR SHRINKAGE 25%		"INSTALL ONLY" OR WASTE (-)	"INSTALL ONLY" OR WASTE (-)	CU YD	CU YD
F.A.S. 662							
Sta. 436+50.00 to Sta. 468+50.29	3029	2272	18392	16120			
Sta. 472+99.71 to Sta. 476+69.50	2	2	9397		9395		
Sta. 478+54.50 to Sta. 498+23.44	22287	16715	26707		9992		
NORTH SIGHT GRADING							
Sta. 12+00.00 to Sta. 21+00.00	905	679			-679		
SOUTH SIGHT GRADING							
Sta. 48+00.00 to Sta. 52+00.00	992	744		-744			
INTERSECTION							
Intersection @ IL 130	723	542	193		-349		
BRIDGE CONES							
River Bridge (East Cones)	14	11	168	157			
River Bridge (West Cones)	2	2	72		70		
Overflow (East Cones)	0	0	118		118		
Overflow (West Cones)	1	1	280		279		
ENTRANCES							
440+12.92, RT	0	0	17	17			
440+15.00, LT	0	0	27	27			
446+72.00, RT	5	4	16	12			
446+81.00, LT	1	1	17	16			
465+76.00, LT	0	0	561	561			
475+00.00, RT	2	2	565		563		
475+00.00, LT	2	2	565		563		
487+00.00, LT	0	0	34		34		
487+00.00, RT	1	1	39		38		
491+16.60, LT	0	0	28		28		
491+16.60, RT	0	0	35		35		
PROJECT TOTAL	27965	20980	57230	16165	20085		

LOCATION	OFFSET	CURB AND GUTTER SCHEDULE			CLASS SI / CONCRETE (OUTLET)
		COMBINATION CURB AND GUTTER, TYPE B-6.24	COMBINATION CURB AND GUTTER, TYPE M-6.24	COMBINATION CURB AND GUTTER, TYPE M-6.06	
ROADWAY		FOOT	FOOT	FOOT	CU YD
INTERSECTION @ IL 130	LT	168			1.02
INTERSECTION @ IL 130	RT	110			1.02
MEDIAN					
INTERSECTION @ IL 130	RT			16	
INTERSECTION @ IL 130	RT		59		
PROJECT TOTAL		278	59	16	2.0

F.A.S. 662	OFFSET	EROSION CONTROL SCHEDULE				
		EROSION CONTROL BLANKET SQ YD	TEMPORARY DITCH CHECK EACH	PERIMETER EROSION BARRIER FOOT	INLET AND PIPE PROTECTION EACH	MULCH METHOD 1 ACRE
Sta. 440+32.88 - Sta. 446+56.11	LT	576.5				
Sta. 440+34.45 - Sta. 446+69.75	RT	587.0				
Sta. 447+07.94 - Sta. 448+00.00	LT	85.5				
Sta. 447+10.58 - Sta. 447+50.00	RT	36.3				
Sta. 480+00.00 - Sta. 481+00.00	RT	104.3				
Sta. 480+00.00 - Sta. 482+00.00	LT	208.7				
Sta. 484+00.00 - Sta. 486+80.00	LT	312.2				
Sta. 484+00.00 - Sta. 486+80.00	RT	312.2				
Sta. 490+15.00 - Sta. 490+78.57	RT	59				
Sta. 490+50.00 - Sta. 490+84.04	LT	32				
Sta. 491+32.30 - Sta. 492+00.00	RT	63				
Sta. 491+31.20 - Sta. 492+00.00	LT	64				
439+50.00	RT		1			
441+50.00	RT		1			
443+10.00	RT		1			
443+50.00	RT		1			
443+90.00	RT		1			
444+30.00	RT		1			
444+70.00	RT		1			
445+20.00	RT		1			
445+80.00	RT		1			
446+40.00	RT		1			
448+50.00	RT		1			
484+00.00	RT		1			
484+25.00	RT		1			
484+75.00	RT		1			
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492+50.00	RT		1			
442+00.00	LT		1			
443+25.00	LT		1			
443+75.00	LT		1			
444+25.00	LT		1			
444+75.00	LT		1			
445+25.00	LT		1			
445+75.00	LT		1			
446+25.00	LT		1			
447+75.00	LT		1			
484+00.00	LT		1			
484+25.00	LT		1			
484+75.00	LT		1			
485+25.00	LT		1			
485+75.00	LT		1			
486+25.00	LT		1			
492+50.00	LT		1			
Sta. 450+00.00 - Sta. 469+00.00	RT			1942		
Sta. 450+00.00 - Sta. 470+20.00	LT			2120		
Sta. 469+00.00 - Sta. 470+20.00	RT/LT			154		
Sta. 471+30.00 - Sta. 480+00.00	RT			975		
Sta. 473+00.00 - Sta. 480+00.00	LT			813		
Sta. 471+30.00 - Sta. 473+00.00	RT/LT			195		
439+96.72	LT					1
440+06.28	RT					1
446+56.11	LT					1
446+69.75	RT					1
464+76.00	LT					2
490+23.47	LT					1
491+31.20	LT					1
491+32.30	RT					1
499+85.07	LT					1
Sta. 436+50.00 - Sta. 498+23.44						2.25
ALONG IL 130						
13+00.00					1	
17+00.00					1	
PROJECT TOTAL		2439	37	6199	10	2.25

AGGREGATE SURFACE COURSE, TYPE B "INSTALL ONLY"		
PRIVATE ENTRANCES	OFFSET	TONS
STA. 440+12.92	RT	21.0
STA. 440+15.00	LT	35.0
STA. 491+16.60	LT	21.0
WEST APPR. STA. 468+21.00		1.5
EAST APPR. STA. 473+29.00		1.5
WEST ABUT. STA. 476+69.50		1.5
EAST ABUT. STA. 478+54.50		1.5
IL 130 INTERSECTION		122.0
PROJECT TOTAL		205

AGGREGATE SHOULDERS, TYPE B 6" "INSTALL ONLY"			
F.A.S. 662	OFFSET	AREA (SQ YD)	
Sta. 436+50.00 - Sta. 468+21.00	LT/RT	2819	
Sta. 473+29.00 - Sta. 476+69.50	LT/RT	303	
Sta. 478+54.50 - Sta. 498+23.44	LT/RT	1750	
Sta. 498+23.44 - Sta. 498+74.20	RT	23	
SHOULDER THROUGH INTERSECTION	RT	25	
SHOULDER THROUGH INTERSECTION	LT	17	
PROJECT TOTAL		4936	

PIPE CULVERT REMOVAL			
F.A.S. 662	OFFSET	FOOT	
Sta. 440+15.00	LT	30	
Sta. 446+72.00	LT	16	
Sta. 489+98.00		45	
Sta. 491+00.00	LT	39	
PROJECT TOTAL		130	

PROCESSING LIME STABILIZED SOIL MIXTURE 12"				
F.A.S. 662	LENGTH (FT)	WIDTH (FT)	AREA (SQ YD)	
Sta. 436+50.00 - Sta. 468+21.00	3171.00	27.00	9513.0	
Sta. 473+29.00 - Sta. 476+69.50	340.50	27.00	1021.5	
Sta. 478+54.50 - Sta. 498+23.44	1968.94	27.00	5906.8	
IL 130 INTERSECTION			1139.0	
PROJECT TOTAL			17580	

BRIDGE APPROACH PAVEMENT	
RIVER BRIDGE STRUCTURE	AREA (SQ YD)
EAST APPROACH	100
WEST APPROACH	100
PROJECT TOTAL	200

LIME				
F.A.S. 662	AREA (SQ YD)	RATE (LBS/ SQ YD)	TONS	
Sta. 436+50.00 - Sta. 468+21.00	9513.0	70.0	333.0	
Sta. 473+29.00 - Sta. 476+69.50	1021.5	70.0	35.8	
Sta. 478+54.50 - Sta. 498+23.44	5906.8	70.0	206.7	
IL 130 INTERSECTION	1139.0	70.0	39.9	
PROJECT TOTAL			615.3	

STONE DUMPED RIPRAP, CLASS A4 "INSTALL ONLY"			
ROADWAY	STATION	OFFSET	AREA (SQ YD)
CULVERT	446+72.00	LT	26
CULVERT	446+81.00	RT	26
CULVERT	464+76.00	RT	52
CULVERT	491+16.60	LT	26
CULVERT	491+16.60	RT	26
CULVERT	499+65.65	RT	20
PROJECT TOTAL			176

FILTER FABRIC			
STRUCTURES	STRUCTURE #	AREA (SQ YD)	
RIVER	018-3191	703	
OVERFLOW	018-3194	309	
SUBTOTAL		1012	
ROADWAY			
LOCATION	STATION	OFFSET	AREA (SQ YD)
DITCH SLOPE	482+00 - 484+00	LT	311
DITCH SLOPE	481+00 - 484+00	RT	467
DITCH SLOPE	490+00 - 490+50	LT	78
DITCH SLOPE	489+25 - 490+15	RT	140
CULVERT	446+72.00	LT	26
CULVERT	446+81.00	RT	26
CULVERT	464+76.00	RT	52
CULVERT	489+98.00	LT	80
CULVERT	489+98.00	RT	80
CULVERT	491+16.60	LT	26
CULVERT	491+16.60	RT	26
CULVERT	499+65.65	RT	20
SUBTOTAL			1332
PROJECT TOTAL			2344

STONE RIPRAP, CLASS A4 "INSTALL ONLY"			
STRUCTURES	STRUCTURE #	AREA (SQ YD)	
RIVER	018-3191	703	
OVERFLOW	018-3194	309	
SUBTOTAL		1012	
ROADWAY			
LOCATION	STATION	OFFSET	AREA (SQ YD)
DITCH SLOPE	482+00 - 484+00	LT	312
DITCH SLOPE	481+00 - 484+00	RT	462
DITCH SLOPE	490+00 - 490+50	LT	82
DITCH SLOPE	489+25 - 490+15	RT	147
SUBTOTAL			1003
PROJECT TOTAL			2015

TEMPORARY EROSION CONTROL SEEDING	
	TEMPORARY EROSION CONTROL SEEDING
	ACRE
Station 436+50.00 to Station 498+23.44	15.6
IL 130 Intersection - Sta. 498+23.44 to IL 130	1.0
North Grading along IL 130 Sta. 12+00.00 to Sta. 21+00.00	2.0
South Grading along IL 130 Sta. 40+00.00 to Sta. 53+00.00	0.4
PROJECT TOTAL	19.00

STONE DUMPED RIPRAP, CLASS A6 "INSTALL ONLY"			
ROADWAY	STATION	OFFSET	AREA (SQ YD)
CULVERT	489+98.00	LT	80
CULVERT	489+98.00	RT	80
PROJECT TOTAL			160

PROTECTIVE COAT	
RIVER BRIDGE STRUCTURE	AREA (SQ YD)
EAST APPROACH	100
WEST APPROACH	100
PROJECT TOTAL	200

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: SHEET NO. 1 OF 2 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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SCHEDULE OF QUANTITIES

CONCRETE MEDIAN SURFACE, 4"		AREA (SQ FT)
F.A.S. 662		132
IL 130 INTERSECTION		132
PROJECT TOTAL		132

PAVEMENT MARKING REMOVAL				
ALONG IL. 130				
FROM		TO		FOOT
STATION	OFFSET	STATION	OFFSET	
499+43.13	146.34 (RT)	500+09.87	95.96 (LT)	252
PROJECT TOTAL				252

SAW CUTTING (FULL DEPTH)				
ALONG IL. 130				
FROM		TO		FOOT
STATION	OFFSET	STATION	OFFSET	
499+43.13	146.34 (RT)	500+09.87	95.96 (LT)	252
PROJECT TOTAL				252

BARRIER SCHEDULES						
LOCATION	OFFSET	FOOT	EACH	EACH	EACH	EACH
STA. 462+50.00 - STA. 463+00.00	RT				1	
STA. 463+00.00 - STA. 468+22.00	RT	522.0				
STA. 468+22.00 - STA. 468+35.25 (ON STR.)	RT			1		
STA. 463+87.50 - STA. 464+00.00	LT		1			
STA. 464+00.00 - STA. 465+06.00	LT	106.0				
STA. 465+06.00 - STA. 465+56.00	LT				1	
STA. 465+94.83 - STA. 466+07.33	LT		1			
STA. 466+07.33 - STA. 468+53.50	LT	246.2				
STA. 468+53.50 - STA. 468+66.75 (ON STR.)	LT			1		
STA. 472+83.26 (ON STR.) - STA. 472+96.51	RT			1		
STA. 472+96.51 - STA. 474+67.65	RT	171.1				
STA. 474+67.65 - STA. 474+80.15	RT		1			
STA. 473+14.76 (ON STR.) - STA. 473+28.01	LT			1		
STA. 473+28.01 - STA. 474+32.95	LT	104.9				
STA. 474+32.95 - STA. 474+82.95	LT				1	
STA. 475+19.66 - STA. 475+32.06	LT		1			
STA. 475+32.06 - STA. 476+65.41	LT	133.4				
STA. 476+65.41 - STA. 476+78.66 (ON STR.)	LT			1		
STA. 475+18.00 - STA. 475+68.00	RT					1
STA. 475+68.00 - STA. 476+48.09	RT	80.1				
STA. 476+48.09 - STA. 476+61.34 (ON STR.)	RT			1		
STA. 478+45.34 (ON STR.) - STA. 478+58.59	RT			1		
STA. 478+58.59 - STA. 484+00.00	RT	541.4				
STA. 484+00.00 - STA. 484+12.50	RT		1			
STA. 478+62.66 (ON STR.) - STA. 478+75.91	LT			1		
STA. 478+75.91 - STA. 485+00.00	LT	624.1				
STA. 485+00.00 - STA. 485+50.00	LT				1	
PROJECT TOTAL		2525	5	8	2	3

TRAFFIC BARRIER TERMINAL, TYPE 2 WILL TRANSITION DOWN TO CONNECT TO STEEL PLATE BEAM GUARDRAIL, TYPE A (27.5) INCH HEIGHT

SIGNING SCHEDULE									
ROADWAY	STATION	OFFSET	SIGN TYPE	PANEL SIZE	SIGN PANEL TYPE 1	METAL POST TYPE A	METAL POST TYPE B	TELESCOPING STEEL SIGN SUPPORT	BASE FOR TELESCOPING STEEL SIGN SUPPORT
				IN X IN	SQ FT	FOOT	FOOT	FOOT	EACH
F.A.S. 662	491+35.00	22' RT	R1-1	30X30	6.3		12		
F.A.S. 662	495+00.00	24.13' RT	W3-1	36"X36"	9.0	26			
F.A.S. 662	499+35.00	50' RT	R1-1	30X30	6.3			8	1
F.A.S. 662	499+67.00	20' RT	R1-1	30X30	6.3		12		
PROJECT TOTALS					28	26	24	8	1

AGGREGATE BASE COURSE, TYPE B 18" "INSTALL ONLY"			
F.A.S. 662	LENGTH (FT)	WIDTH (FT)	AREA (SQ YD)
STA. 436+50.00 - STA. 468+21.00	3171.00	24.00	8456.0
STA. 473+29.00 - STA. 476+69.50	340.50	24.00	908.0
STA. 478+54.50 - STA. 498+23.44	1968.94	24.00	5250.5
STA. 491+16.60 (TR 230)			53.2
IL 130 INTERSECTION			1068.0
PROJECT TOTAL			15736

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LAYOUT	MNM/DJP	10/10/07
DRAWN	DJP	10/10/07
REVIEWED	MNM	02/04/08

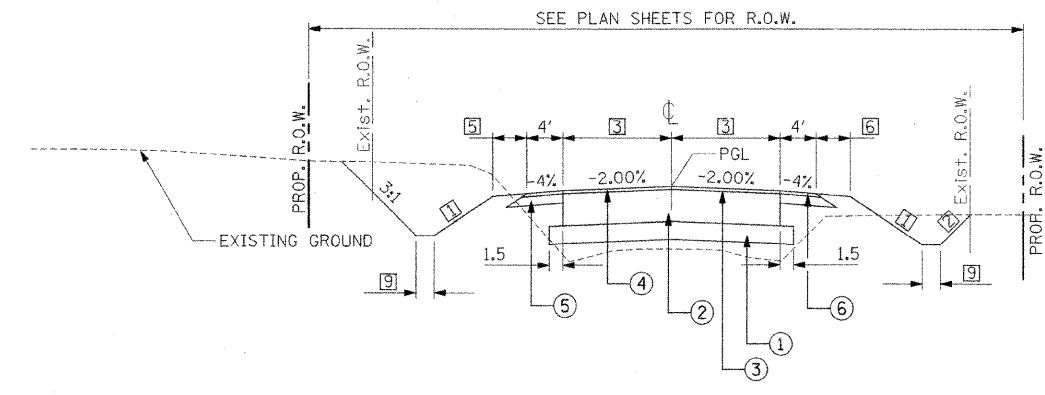
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

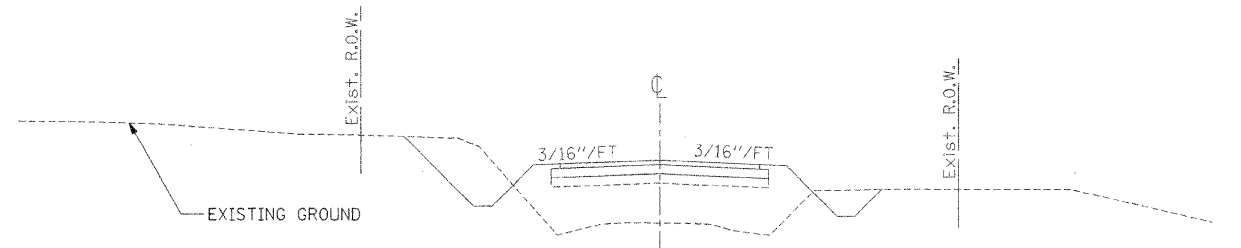
SCHEDULE OF QUANTITIES

SCALE: SHEET NO. 2 OF 2 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	01-00061-00-BR	CUMBERLAND	85	5
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
CONTRACT NO. 95552				

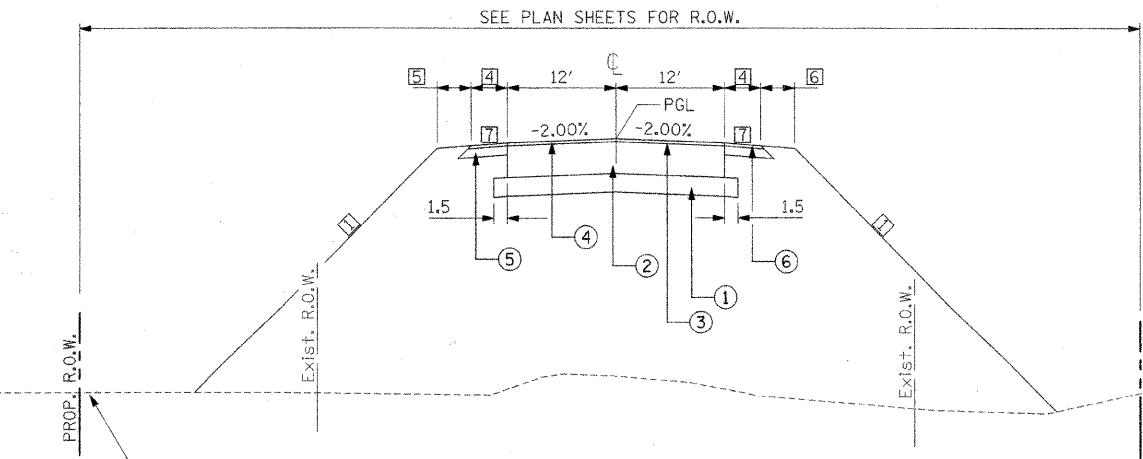


F.A.S. 662
BEGINNING OF PROJECT STA. 436+50.00 TO STA. 450+00.00
STA. 479+00.00 TO STA. 495+32.72

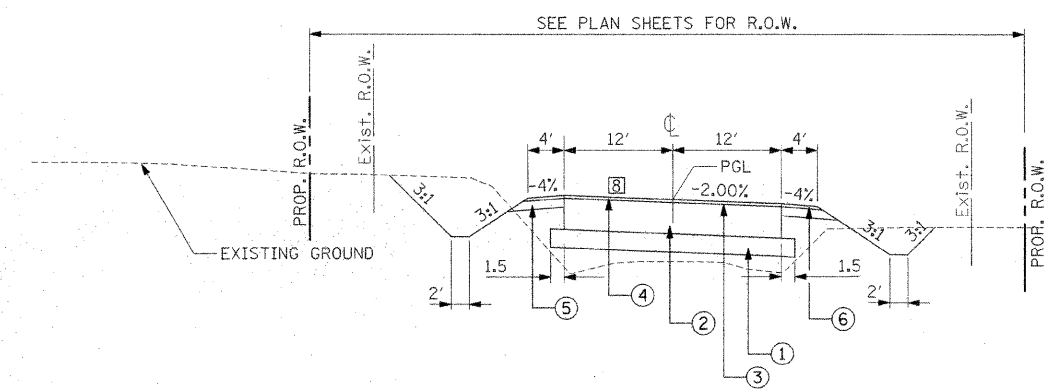


F.A.S. 662
EXISTING SECTION

- ITEM
- ① PROCESSING LIME STABILIZED SOIL MIXTURE, 12"
 - ② AGGREGATE BASE COURSE, TYPE B 18"
 - ③ SURFACE TREATMENT (CLASS A-3) - CUMBERLAND COUNTY
 - ④ 2" SURFACE - CUMBERLAND COUNTY
 - ⑤ AGGREGATE SHOULDERS TYPE B, 6"
 - ⑥ 2" SHOULDERS - CUMBERLAND COUNTY



F.A.S. 662
STA. 450+00.00 TO STA. 479+00.00
(BRIDGE OMISSION STA. 468+21.00 TO STA. 473+29.00)
(BRIDGE OMISSION STA. 476+69.50 TO STA. 478+54.50)



F.A.S. 662
STA. 495+32.72 TO STA. 498+23.44

- ① STATION 436+50.00 TO STATION 462+00.00 = 3:1
STATION 462+00.00 TO STATION 463+00.00
TRANSITION 3:1 TO 2:1
STATION 463+00.00 TO STATION 483+00.00 = 2:1
STATION 483+00.00 TO STATION 484+00.00
TRANSITION 2:1 TO 3:1
STATION 484+00.00 TO STATION 495+32.72 = 3:1
- ② STATION 436+50.00 TO STATION 439+00.00 = 2:1
STATION 439+00.00 TO STATION 440+00.00
TRANSITION 2:1 TO 3:1
STATION 440+00.00 TO STATION 450+00.00 = 3:1
STATION 479+00.00 TO STATION 495+32.72 = 3:1
- ③ STATION 436+50.00 TO STATION 437+00.00
TRANSITION 10.00' TO 12.00'
STATION 437+00.00 TO STATION 450+00.00 = 12.00'
STATION 479+00.00 TO STATION 495+32.72 = 12.00'
- ④ STATION 450+00.00 TO STATION 467+80.00 = 4.00'
STATION 467+80.00 TO STATION 468+05.00
TRANSITION 4.00' TO 3.00'
STATION 468+05.00 TO STATION 468+21.00 = 3.00'
STATION 473+29.00 TO STATION 473+45.00 = 3.00'
STATION 473+45.00 TO STATION 473+70.00
TRANSITION 3.00' TO 4.00'
STATION 473+70.00 TO STATION 476+30.00 = 4.00'
STATION 476+30.00 TO STATION 476+55.00
TRANSITION 4.00' TO 3.00'
STATION 476+55.00 TO STATION 476+69.50 = 3.00'
STATION 478+54.50 TO STATION 478+65.00 = 3.00'
STATION 478+65.00 TO STATION 478+90.00
TRANSITION 3.00' TO 4.00'
STATION 478+90.00 TO STATION 479+00.00 = 4.00'
- ⑤ STATION 436+50.00 TO STATION 463+87.50 = 0.00'
STATION 463+87.50 TO STATION 485+50.00 = 3.76'
STATION 485+50.00 TO STATION 495+32.72 = 0.00'
- ⑥ STATION 436+50.00 TO STATION 462+50.00 = 0.00'
STATION 462+50.00 TO STATION 484+12.00 = 3.76'
STATION 484+12.50 TO STATION 495+32.72 = 0.00'
- ⑦ STATION 450+00.00 TO STATION 467+55.00 = -4.00%
STATION 467+55.00 TO STATION 468+05.00
TRANSITION -4.00% TO -2.00%
STATION 468+05.00 TO STATION 468+21.00 = -2.00%
STATION 473+29.00 TO STATION 473+45.00 = -2.00%
STATION 473+45.00 TO STATION 473+95.00
TRANSITION -2.00% TO -4.00%
STATION 473+95.00 TO STATION 476+05.00 = -4.00%
STATION 476+05.00 TO STATION 476+55.00
TRANSITION -4.00% TO -2.00%
STATION 476+55.00 TO STATION 476+69.50 = -2.00%
STATION 478+54.50 TO STATION 478+65.00 = -2.00%
STATION 478+65.00 TO STATION 479+15.00
TRANSITION -2.00% TO -4.00%
STATION 479+15.00 TO STATION 479+00.00 = -4.00%
- ⑧ STATION 495+32.72 TO STATION 496+57.72
TRANSITION -2.00% TO 2.00%
STATION 496+57.72 TO STATION 498+23.44 = 2.00%
- ⑨ STATION 436+50.00 TO STATION 450+00.00 = 2.00'
STATION 479+00.00 TO STATION 486+00.00 = 4.00'
STATION 486+00.00 TO STATION 487+00.00
TRANSITION 4.00' TO 2.00'
STATION 487+00.00 TO STATION 495+32.72 = 2.00'

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LAYOUT	MNM/DJP	10/10/07
DRAWN	DJP	10/10/07
REVISED	JMM	02/04/08

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET NO. 1 OF 1 SHEETS STA. 436+50.00 TO STA. 500+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	01-00061-00-BR	CUMBERLAND	85	6
CONTRACT NO. 95552				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PIPE CULVERT SCHEDULE

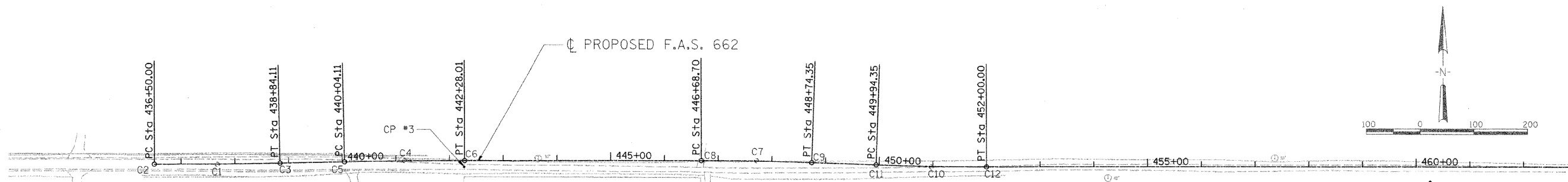
ROADWAY	STATION	OFFSET	P CUL 1 CS/A EQ RS 18	P CUL 1 CS/A CP 18	P CUL 1 RC EQV R-S 18	P CUL 1 RCCP 60	P CUL 2 RCCP 36	METAL END SECTIONS 18"	MET END SEC EQV RS 18	PRC FL END S EQ RS 18	PRC FLAR END SEC 36	PRC FLAR END SEC 60	TRENCH BACKFILL "INSTALL ONLY"
			FEET	FEET	FEET	FEET	FEET	EACH	EACH	EACH	EACH	EACH	CU YD
F.A.S. 662	440+12.92	RT		23				2					
F.A.S. 662	440+15.00	LT		31				2					
F.A.S. 662	446+72.00	LT	32						2				
F.A.S. 662	446+81.00	RT		20				2					
F.A.S. 662	464+76.00					71	136				4		102
F.A.S. 662	489+98.00											2	45
F.A.S. 662	491+16.60	LT		26				2					
F.A.S. 662	491+16.60	RT		31				2					
F.A.S. 662	499+65.65				165					2			17
TOTAL			32	131	165	71	136	10	2	2	4	2	164

STORM SEWER SCHEDULE

FROM STRUCTURE NUMBER	INVERT ELEV.	TO STRUCTURE NUMBER	INVERT ELEV.	PIPE DRAINS 12"	STORM SEWERS CLASS A TYPE 1 12"	TRENCH BACKFILL "INSTALL ONLY"
				FOOT	FOOT	CU YD
1	591.00	2	590.49		60	9
2	590.47	3	590.44	6		
TOTAL				6	60	9

DRAINAGE STRUCTURE SCHEDULES

STRUCTURE NUMBER	ROADWAY	STATION	OFFSET		REFERENCE ELEV.	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	CONCRETE HEADWALL FOR PIPE DRAINS
			FEET				
1	F.A.S. 662	499+28.00	29.39	LT	594.19	1	
2	F.A.S. 662	499+28.00	34.26	RT	593.59	1	
3	F.A.S. 662	499+22.00	40.22	RT	590.44		1
TOTAL						2	1



CURVE C1

C1	PI STA. = 437+67.06
	$\Delta = 01^\circ 07' 04''$ (LT)
	D = 0° 28' 39"
	R = 12,000.00'
	T = 117.06'
	L = 234.11'
	E = 0.57'
C2	P.C. STA = 436+50.00
C3	P.T. STA = 438+84.11

CURVE C4

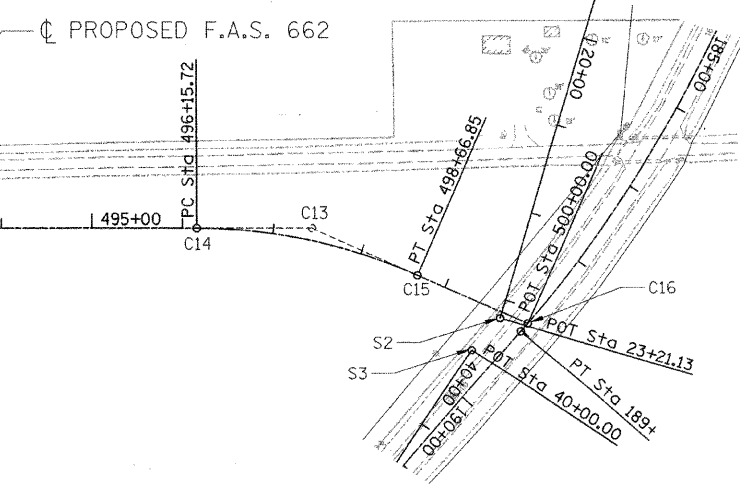
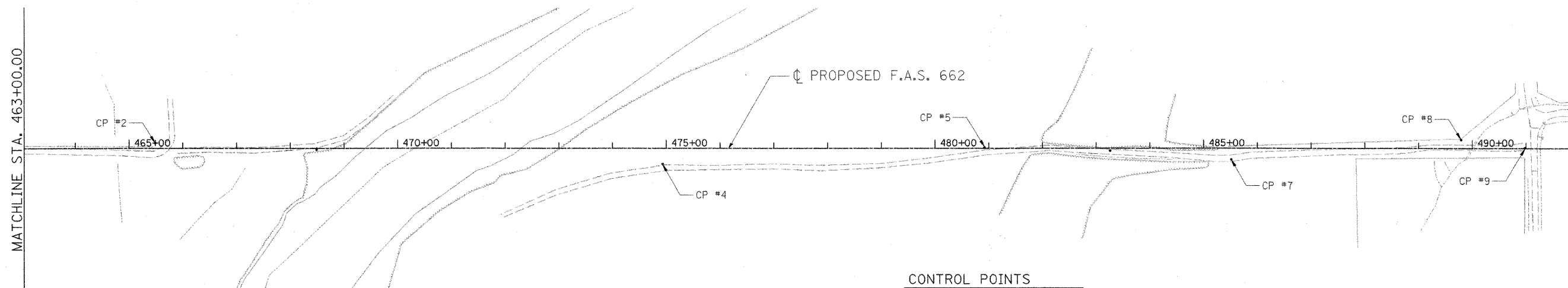
C4	PI STA. = 441+16.06
	$\Delta = 1^\circ 04' 09''$ (RT)
	D = 0° 28' 39"
	R = 12,000.00'
	T = 111.95'
	L = 223.90'
	E = 0.52'
C5	P.C. STA = 440+04.11
C6	P.T. STA = 442+28.01

CURVE C7

C7	PI STA. = 447+71.54
	$\Delta = 2^\circ 06' 42''$ (RT)
	D = 1° 01' 37"
	R = 5,580.00'
	T = 102.84'
	L = 205.65'
	E = 0.95'
C8	P.C. STA = 446+68.70
C9	P.T. STA = 448+74.35

CURVE C10

C10	PI STA. = 450+97.19
	$\Delta = 2^\circ 06' 42''$ (LT)
	D = 1° 01' 37"
	R = 5,580.00'
	T = 102.84'
	L = 205.65'
	E = 0.95'
C11	P.C. STA = 449+94.35
C12	P.T. STA = 452+00.00



CURVE C13

C13	PI STA. = 497+43.15
	$\Delta = 23^\circ 58' 50''$ (RT)
	D = 9° 32' 57"
	R = 600.00'
	T = 127.43'
	L = 251.12'
	E = 13.38'
	e = 2.00%
	S.E. ATTN: 495+32.72 (-2.00%) TO 496+57.72 (2.00%)
	498+24.85 (2.00%) TO 499+49.85 (-2.00%)
C14	P.C. STA = 496+15.72
C15	P.T. STA = 498+66.85

CONTROL POINTS

POINT	DESCRIPTION	STATION, OFFSET	ELEVATION	NORTHING	EASTING
CP #1	IRON PIN @ END OF LEVEE	STA. 460+26.17, 27.64' RT.	ELEV: 546.57	24,946.24	34,633.58
CP #2	IRON PIN	STA. 465+48.71, 9.72' LT.	ELEV: 544.68	24,987.32	35,155.85
CP #3	IRON PIN		ELEV: 567.47	24,961.03	32,834.71
CP #4	IRON PIN	STA. 474+93.38, 29.24' RT.	ELEV: 544.23	24,955.12	36,100.77
CP #5	IRON PIN	STA. 480+92.08, 1.36' LT.	ELEV: 545.90	24,990.00	36,699.24
CP #6	IRON PIN		ELEV: 571.96	24,957.90	31,297.53
CP #7	IRON PIN	STA. 485+51.24, 20.78' RT.	ELEV: 594.37	24,971.14	37,158.54
CP #8	IRON PIN	STA. 489+79.28, 15.76' LT.	ELEV: 587.97	25,010.75	37,586.31
CP #9	IRON PIN	STA. 490+98.16, 0.62' LT.	ELEV: 588.98	24,996.45	37,705.30

F.A.S. 662

POINT	NORTHING	EASTING
C1	24,963.21	32,374.52
C2	24,962.47	32,257.46
C3	24,966.23	32,491.54
C4	24,972.22	32,723.41
C5	24,969.33	32,611.50
C6	24,973.02	32,835.36
C7	24,976.90	33,378.87
C8	24,976.17	33,276.04
C9	24,973.85	33,481.66
C10	24,967.23	33,704.40
C11	24,970.28	33,601.61
C12	24,967.96	33,807.24
C13	25,000.44	38,350.27
C14	24,999.53	38,222.85
C15	24,949.49	38,467.07
C16	24,896.24	38,589.11

SIGHT GRADING LINE (NORTH)

POINT	NORTHING	EASTING
S1	26,169.19	38,931.76
S2	24,901.90	38,558.45

SIGHT GRADING LINE (SOUTH)

POINT	NORTHING	EASTING
S3	24,865.46	38,527.44
S4	23,767.98	37,806.64

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LAYOUT	MNM/DJP	10/10/07
DRAWN	DJP	10/10/07
REVIEWED	JMM	02/04/08

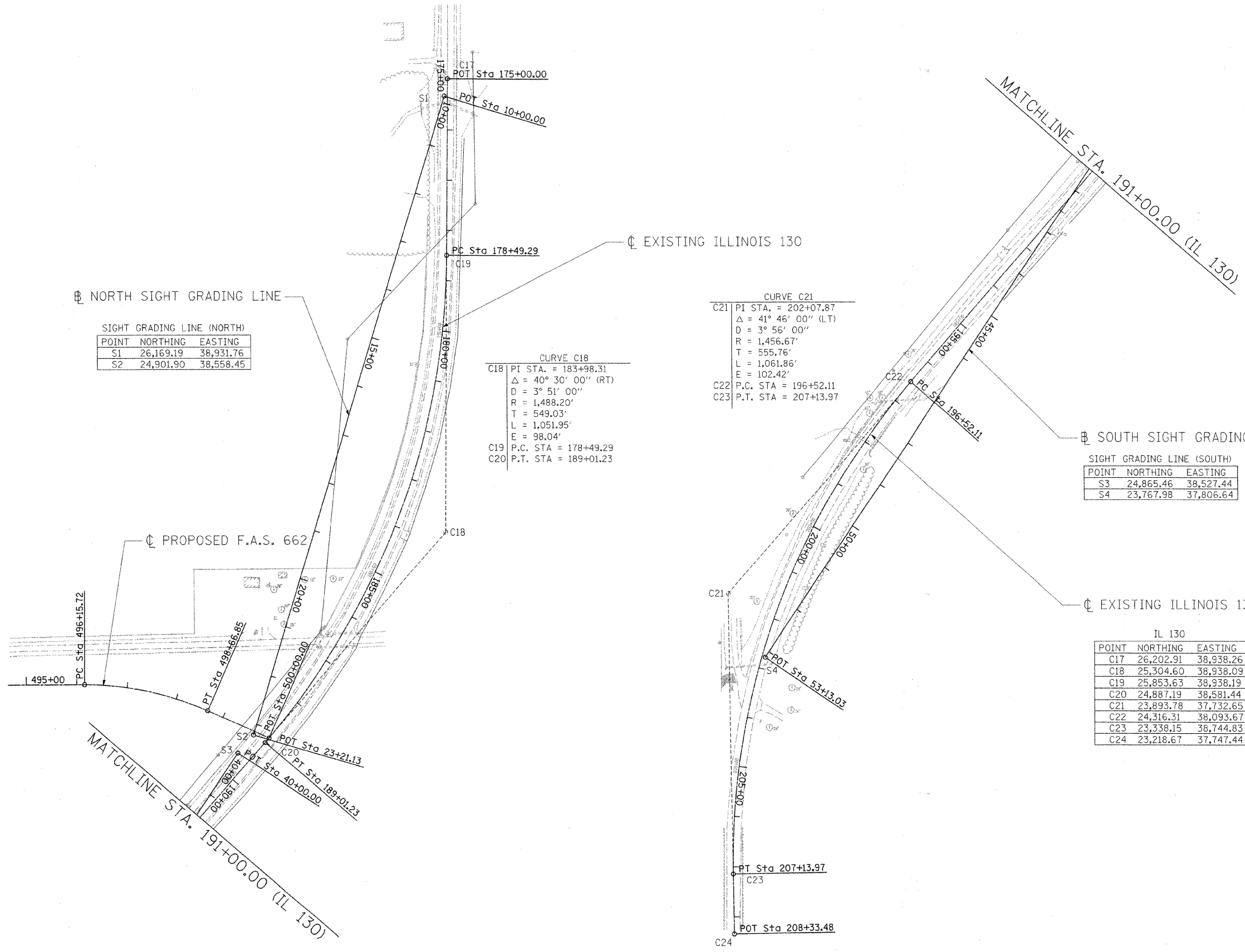
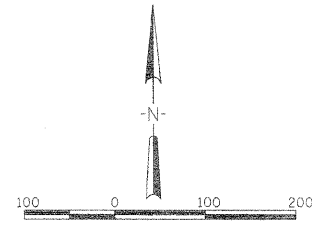
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GEOMETRIC CONTROL SHEET

SCALE: SHEET NO. 1 OF 2 SHEETS STA. 436+50.00 TO STA. 500+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	01-0061-00-BR	CUMBERLAND	85	8
CONTRACT NO. 95552				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



SIGHT GRADING LINE (NORTH)

POINT	NORTHING	EASTING
S1	26,169.19	38,931.76
S2	24,901.90	38,558.45

CURVE C18

PI STA.	= 183+98.31
Δ	= 40° 30' 00" (RT)
D	= 3° 51' 00"
R	= 1,488.20'
T	= 549.03'
L	= 1,051.95'
E	= 98.04'
C19 P.C. STA.	= 178+49.29
C20 P.T. STA.	= 189+01.23

CURVE C21

PI STA.	= 202+07.87
Δ	= 41° 46' 00" (LT)
D	= 3° 56' 00"
R	= 1,456.67'
T	= 555.76'
L	= 1,061.86'
E	= 102.42'
C22 P.C. STA.	= 196+52.11
C23 P.T. STA.	= 207+13.97

SIGHT GRADING LINE (SOUTH)

POINT	NORTHING	EASTING
S3	24,865.46	38,527.44
S4	23,767.98	37,806.64

IL 130

POINT	NORTHING	EASTING
C17	26,202.91	38,938.26
C18	25,304.60	38,938.09
C19	25,853.63	38,938.19
C20	24,887.19	38,581.44
C21	23,893.78	37,732.65
C22	24,316.31	38,093.67
C23	23,338.15	38,744.83
C24	23,218.67	37,747.44

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LAYOUT	MNM/DJP	10/10/07
DRAWN	DJP	10/10/07
REVIEWED	MNM	10/24/08

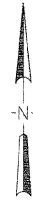
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

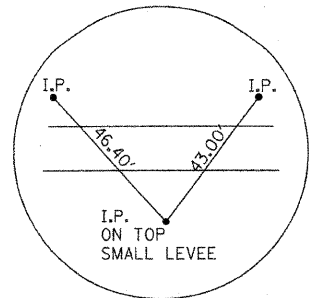
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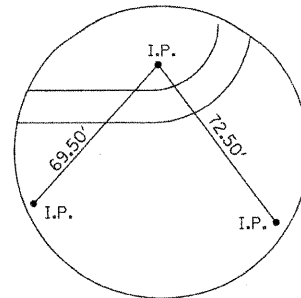
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CONTRACT NO. 95552				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



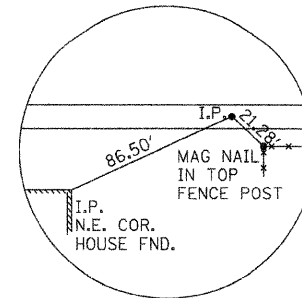
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CP #1
N - 24,946.24
E - 34,633.58



CP #2
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E - 35,155.85

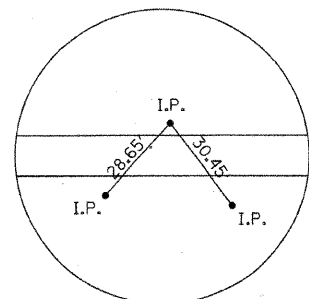


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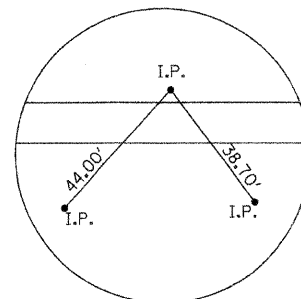
BENCHMARKS

0.1 MILES SOUTH OF THE CENTER OF THE S.E. 1/4 SECTION 26,
110.00' SOUTH OF JUNCTION OF T-ROAD EAST, ON TOP OF
NORTH END HEADWALL OF CONCRETE CULVERT UNDER ROAD
SOUTH. CHISLED SQUARE ELEVATION = 618.00

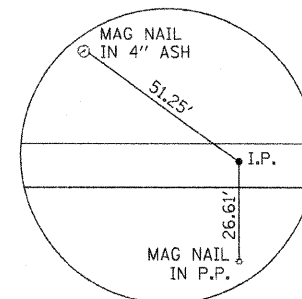
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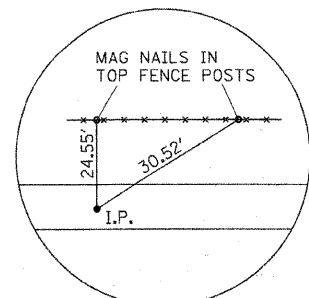
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E - 36,100.77



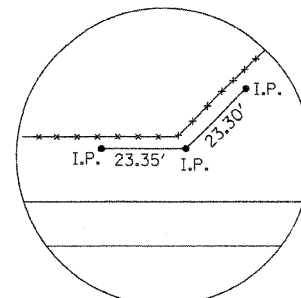
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E - 36,699.24



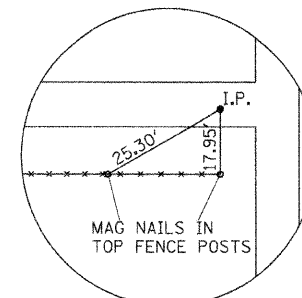
CP #6
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E - 31,297.53
BENCHMARK



CP #7
N - 24,971.14
E - 37,158.54



CP #8
N - 25,010.75
E - 37,586.31



CP #9
N - 24,996.45
E - 37,705.30

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LAYOUT	MNM/DJP	10/10/07
DRAWN	DJP	10/10/07
REVIEWED	JMW	02/04/08

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SURVEY TIES / BENCHMARKS

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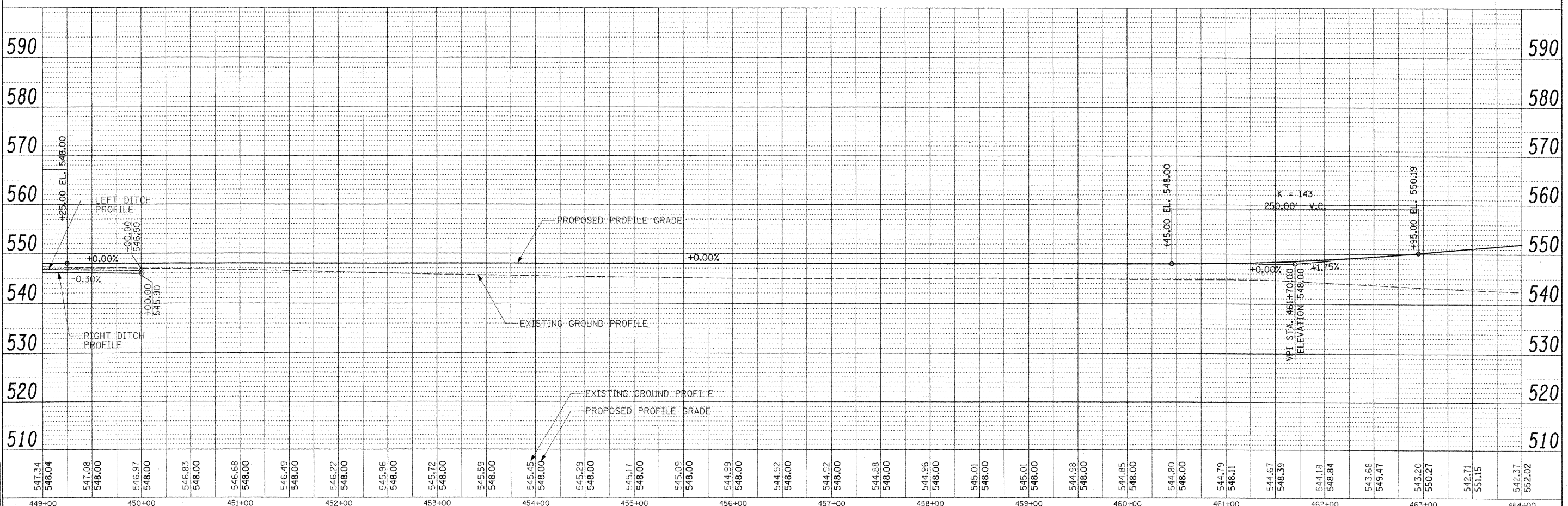
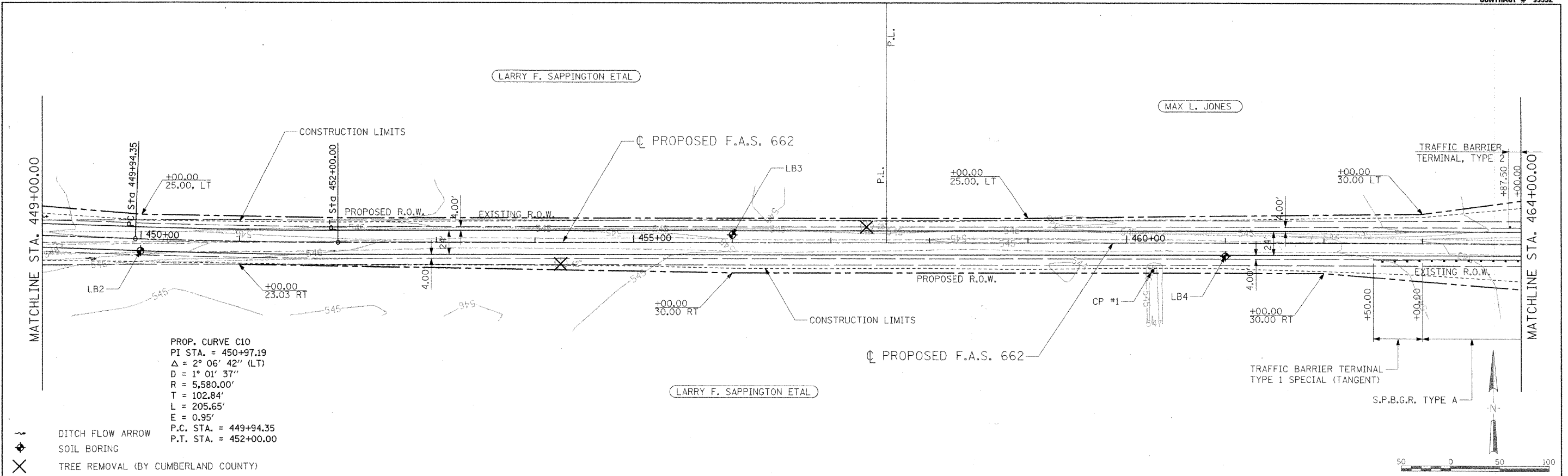
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662	01-00061-00-BR	CUMBERLAND	85	10
CONTRACT NO. 95552				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
NOTE BOOK NO.	BY	
NO.		

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PROFILE	SURVEYED	DATE
NOTE BOOK NO.	BY	
NO.		

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DRAWN	ZZZ	00/00/00
REVIEWED	ZZZ	00/00/00



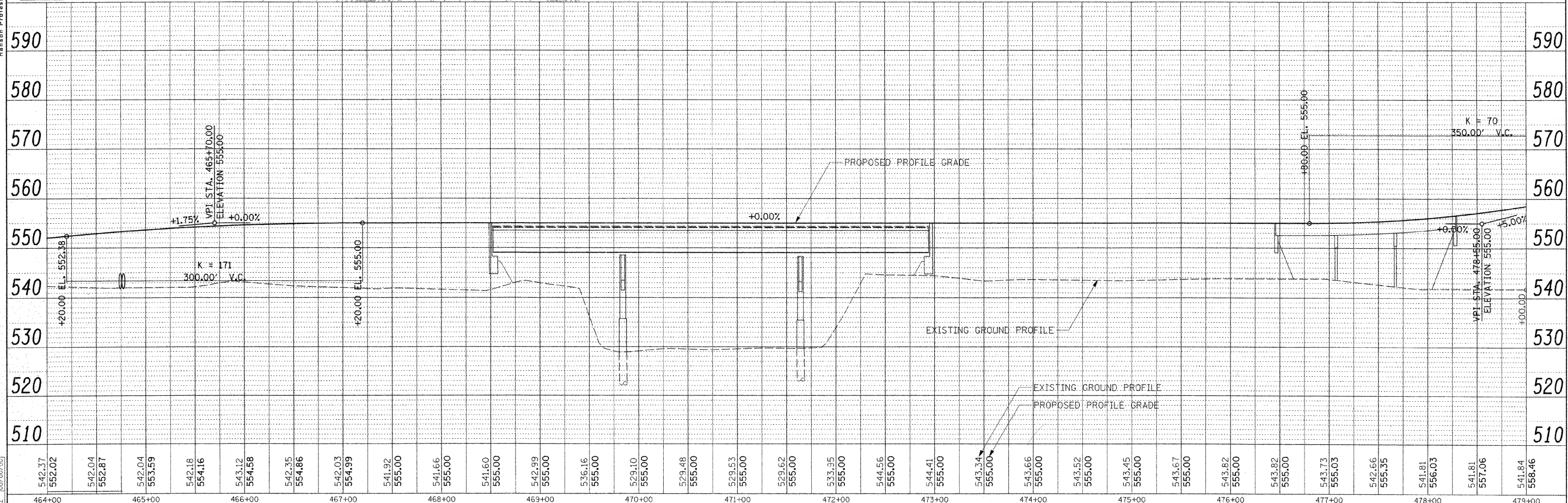
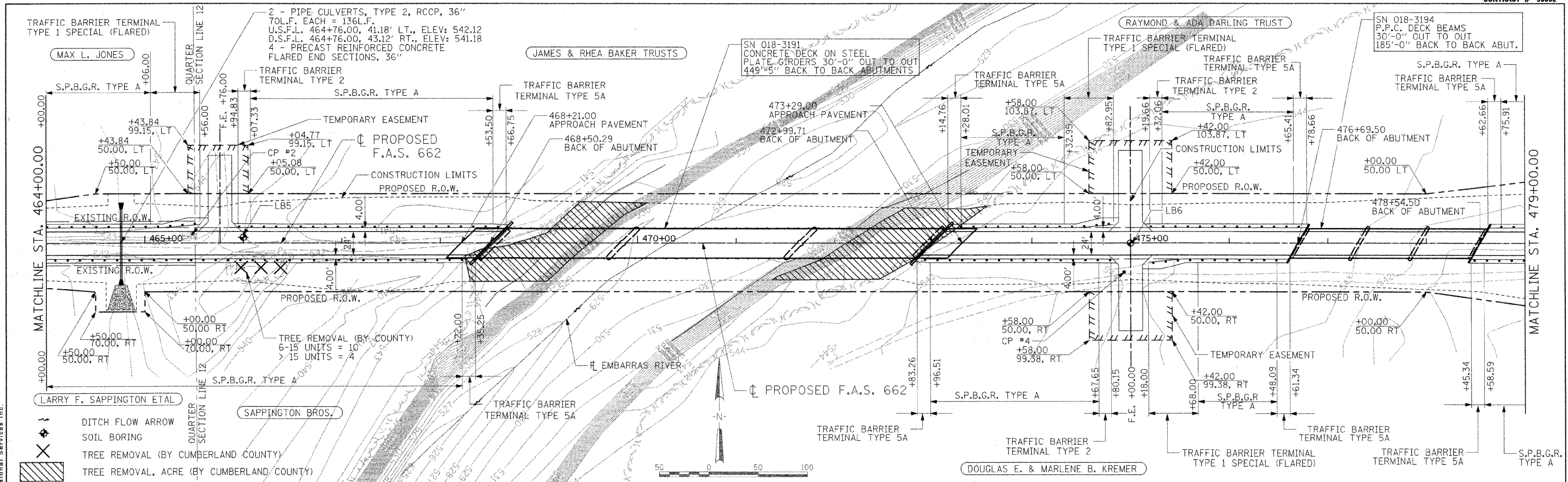
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN AND PROFILES

SCALE: SHEET NO. 2 OF 5 SHEETS STA. 449+00.00 TO STA. 464+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	00-00061-00-BR	CUMBERLAND	85	12
CONTRACT NO. 95552				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



542.37	552.02	542.04	552.87	542.04	553.59	542.18	554.16	543.12	554.58	542.35	554.86	542.03	554.99	541.92	555.00	541.66	555.00	541.60	555.00	542.99	555.00	536.16	555.00	529.10	555.00	529.48	555.00	529.53	555.00	529.62	555.00	533.95	555.00	544.56	555.00	544.41	555.00	543.34	555.00	543.66	555.00	543.52	555.00	543.45	555.00	543.67	555.00	543.82	555.00	543.62	555.00	543.73	555.03	542.66	555.35	541.81	556.03	541.81	557.06	541.84	558.46
464+00	465+00	466+00	467+00	468+00	469+00	470+00	471+00	472+00	473+00	474+00	475+00	476+00	477+00	478+00	479+00																																														

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILES

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	00-00061-00-BR	CUMBERLAND	85	13
SCALE:		SHEET NO. 3 OF 5 SHEETS		STA. 464+00.00 TO STA. 479+00.00
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	BY

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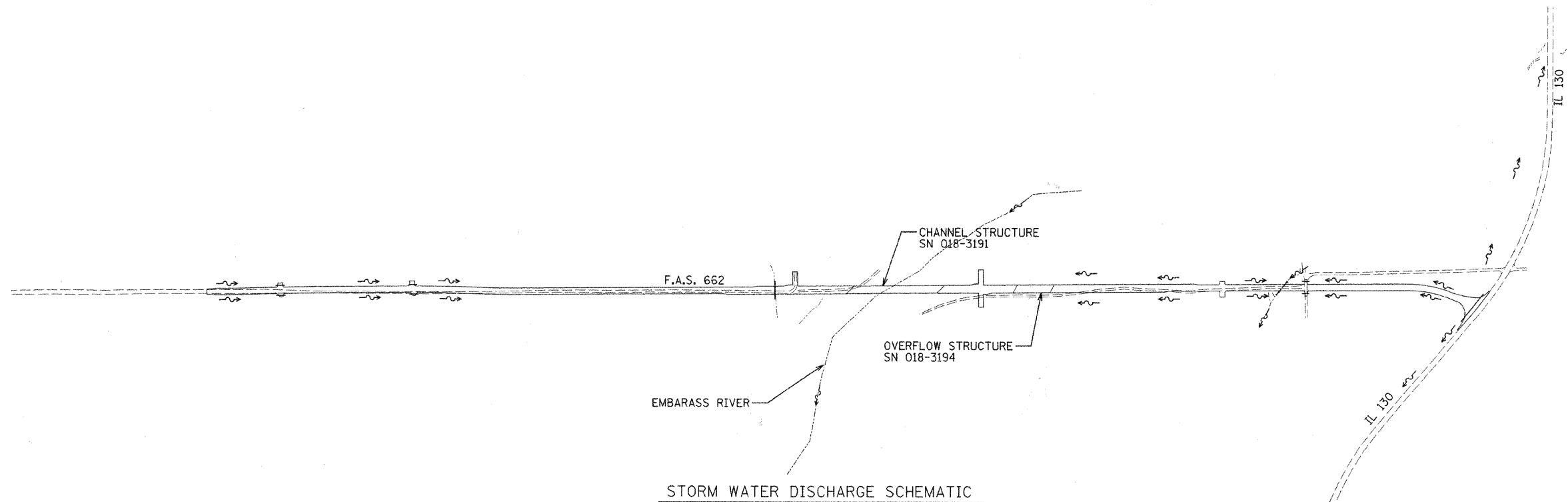
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STORM WATER DISCHARGE SCHEMATIC

TEMPORARY EROSION CONTROL NOTES

GENERAL

1. THE EROSION CONTROL PLANS ARE INCLUDED TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.
2. PLACEMENT AND MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION WORK ZONE AS SOON AS POSSIBLE TO STABILIZE EXPOSED SOILS AND PREVENT ON-SITE DAMAGE. THIS WORK MAY BE CONSTRUCTED OF HAY OR STRAW BALES, SILT FILTER FENCE, SEEDING, OR OTHER APPROPRIATE METHODS AND MATERIALS, SEPARATELY OR IN COMBINATION AS APPROVED BY THE RESIDENT ENGINEER.
3. EROSION CONTROL DEVICES SHALL BE IN PLACE AND APPROVED BY THE RESIDENT ENGINEER AS TO PROPER PLACEMENT AND INSTALLATION PRIOR TO BEGINNING OTHER WORK.
4. CUMBERLAND COUNTY SHALL PLACE PERMANENT SEEDING WITHIN A REASONABLE AMOUNT OF TIME.
5. THE RESIDENT ENGINEER WILL DETERMINE WHEN TEMPORARY EROSION CONTROL SYSTEMS SHOWN ON THE PLAN MAY BE MOVED TO A DIFFERENT LOCATION OR DELETED.
6. THE WORK SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 280-TEMPORARY EROSION CONTROL OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
7. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE RESIDENT ENGINEER AND AS SHOWN IN STANDARD 280001.

8. TEMPORARY EROSION CONTROL SYSTEMS ARE NOTED ON THE EROSION CONTROL PLAN SHEETS. THE PLAN MAY INCLUDE THE FOLLOWING:
 - TEMPORARY DITCH CHECKS
 - PERIMETER EROSION BARRIER
 - INLET AND PIPE PROTECTION
 - TEMPORARY EROSION CONTROL SEEDING
 - EROSION CONTROL BLANKET

9. THE EROSION CONTROL PLANS INCLUDE WEEKLY INSPECTIONS TO BE COMPLETED BY THE CONTRACTOR AND RESIDENT ENGINEER.

PRIOR TO CONSTRUCTION

1. PRIOR TO PERFORMING CONSTRUCTION ACTIVITIES RESULTING IN LAND DISTURBANCE, THE CONTRACTOR SHALL INSTALL ITEMS (IF SPECIFIED ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER) INTENDED TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THE ITEMS MAY INCLUDE THE FOLLOWING TEMPORARY EROSION CONTROL SYSTEMS:
 - TEMPORARY DITCH CHECKS
 - INLET AND PIPE PROTECTION
 - PERIMETER EROSION BARRIER

2. ALL SIDE SLOPES ARE 3:1 OR 2:1 UNLESS OTHERWISE NOTED.

DURING CONSTRUCTION

1. DURING CONSTRUCTION, THE CONTRACTOR SHALL:
 - CLEAN UP AND GRADE THE WORK AREA TO ELIMINATE CONCENTRATION OF RUNOFF.
 - INSTALL TEMPORARY DITCH CHECKS AT LOCATIONS SPECIFIED IN THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.
 - INSTALL INLET AND PIPE PROTECTION AT LOCATIONS SPECIFIED IN THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER FOR CULVERTS AND INLETS AS THEY ARE INSTALLED AND AS WORK PROCEEDS.
 - INSTALL PERIMETER EROSION BARRIER AT LOCATIONS SPECIFIED ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.
 - COVER THE OPEN ENDS OF PIPES IN TRENCHES AT THE CLOSE OF EACH WORKING DAY.
 - PERFORM TEMPORARY EROSION CONTROL SEEDING AS SPECIFIED IN ARTICLE 280.04(F) OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR AS DIRECTED BY THE RESIDENT ENGINEER.
2. THE CONTRACTOR SHALL MAINTAIN OR REPLACE (IF SPECIFIED BY THE RESIDENT ENGINEER) SEDIMENT CONTROL ITEMS.
 - THE TEMPORARY EROSION CONTROL SYSTEMS INSTALLED BY THE CONTRACTOR SHALL BE PROPERLY MAINTAINED AS DIRECTED BY THE RESIDENT ENGINEER TO CONTROL SILTATION AT ALL TIMES DURING THE LIFE OF THE CONTRACT. THIS WORK SHALL INCLUDE REPAIR OF THE VARIOUS SYSTEMS, REMOVAL OF TRAPPED SEDIMENT AND CLEANING OF ANY SILT FILTER FABRIC AND HAY OR STRAW BALES.
 - IF THE CONTRACTOR FAILS TO MAINTAIN THE TEMPORARY EROSION CONTROL SYSTEMS AS DIRECTED BY THE RESIDENT ENGINEER, THE RESIDENT ENGINEER MAY AT THE EXPIRATION OF A PERIOD OF 48 HOURS, AFTER HAVING GIVEN THE CONTRACTOR WRITTEN NOTICE, PROCEED TO MAINTAIN THE SYSTEMS AS DEEMED NECESSARY, AND THE COST THEREOF WILL BE DEDUCTED FROM ANY COMPENSATION DUE, OR WHICH MAY BECOME DUE TO THE CONTRACTOR UNDER THIS CONTRACT.

PRIOR TO LANDSCAPING/RESTORATION

1. IMMEDIATELY PRIOR TO LANDSCAPING/RESTORATION WORK, THE CONTRACTOR SHALL:
 - REMOVE AND DISPOSE OF SILT RETAINED BY THE TEMPORARY DITCH CHECKS, REINSTALL THE TEMPORARY DITCH CHECKS AFTER CLEANING, AND REMOVE AND REPLACE PLUGGED OR DAMAGED HAY OR STRAW BALES.
 - REMOVE AND DISPOSE OF SILT RETAINED BY THE PERIMETER EROSION BARRIER, REINSTALL THE PERIMETER EROSION BARRIER AFTER CLEANING, AND REMOVE AND REPLACE PLUGGED OR DAMAGED SILT FILTER FENCE.

FOLLOWING LANDSCAPING/RESTORATION

1. AFTER LANDSCAPING/RESTORATION WORK, THE CONTRACTOR SHALL MAINTAIN OR REPLACE (IF SPECIFIED BY THE RESIDENT ENGINEER) SEDIMENT CONTROL ITEMS.

VEGETATION ESTABLISHED

1. AFTER THE VEGETATION IS ESTABLISHED IN THE DISTURBED AREA, THE CONTRACTOR SHALL:
 - REMOVE THE REMAINING SEDIMENT CONTROL ITEMS AS DIRECTED BY THE RESIDENT ENGINEER.
 - RESTORE THE AREAS DISTURBED BY THE SEDIMENT CONTROL ITEMS BY PERMANENT SEEDING AND MULCHING.



LAYOUT	MNM/DJP	10/10/07
DRAWN	DJP	10/10/07
REVIEWED	JMM	07/04/08

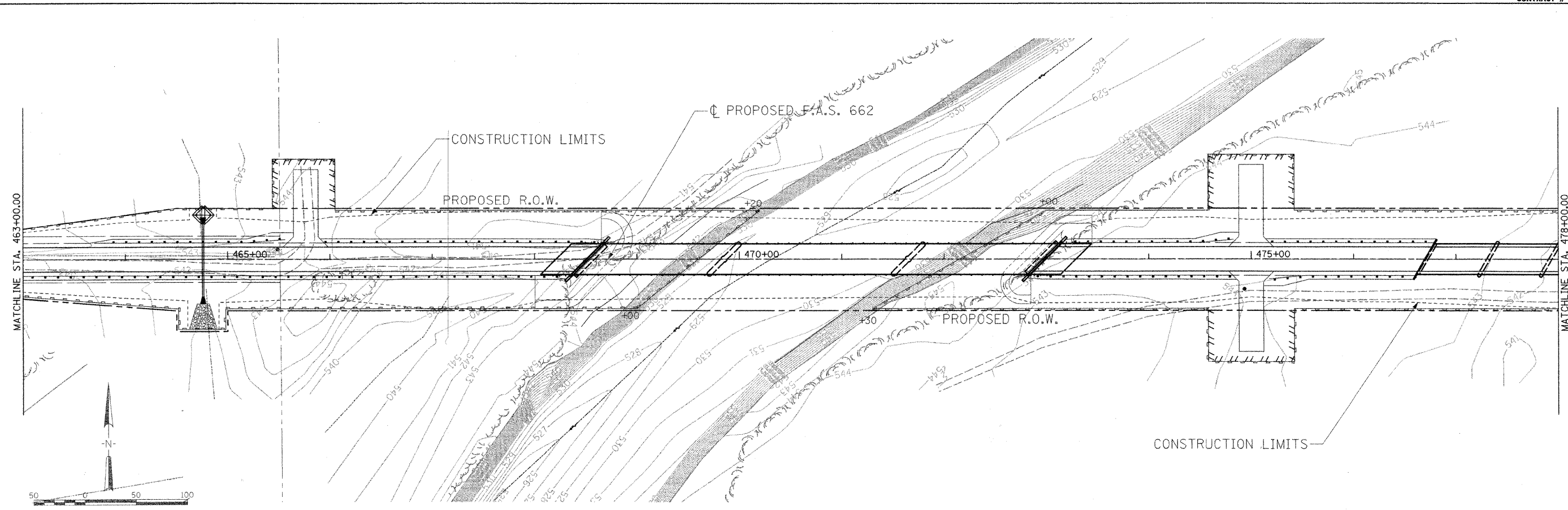
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL NOTES /DISCHARGE SCHEMATIC

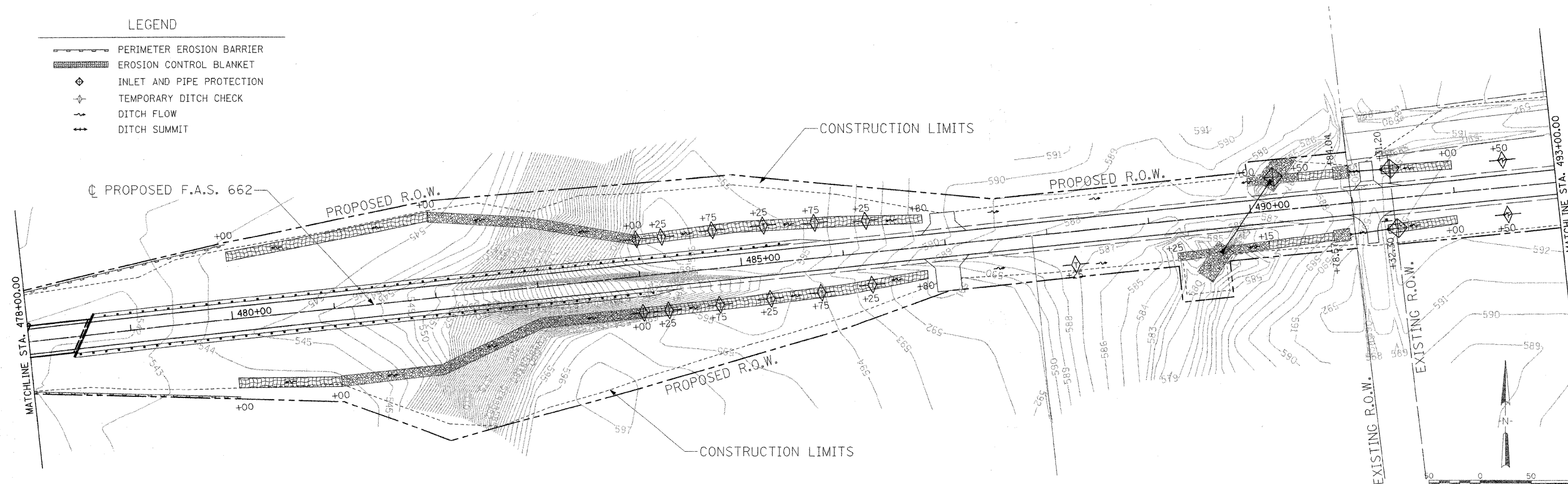
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662	00-00061-00-BR	CUMBERLAND	85	16
CONTRACT NO. 95552				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SCALE: SHEET NO. 1 OF 1 SHEETS



LEGEND

	PERIMETER EROSION BARRIER
	EROSION CONTROL BLANKET
	INLET AND PIPE PROTECTION
	TEMPORARY DITCH CHECK
	DITCH FLOW
	DITCH SUMMIT



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LAYOUT	ZZZ	00/00/00
DRAWN	ZZZ	00/00/00
REVIEWED	ZZZ	00/00/00

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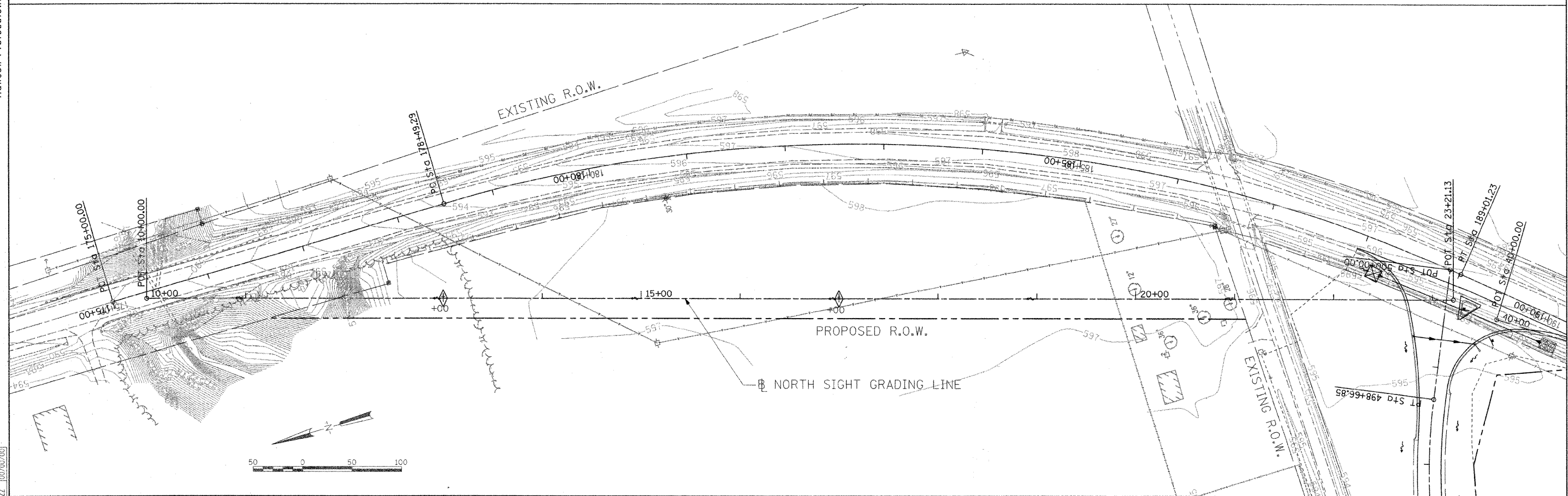
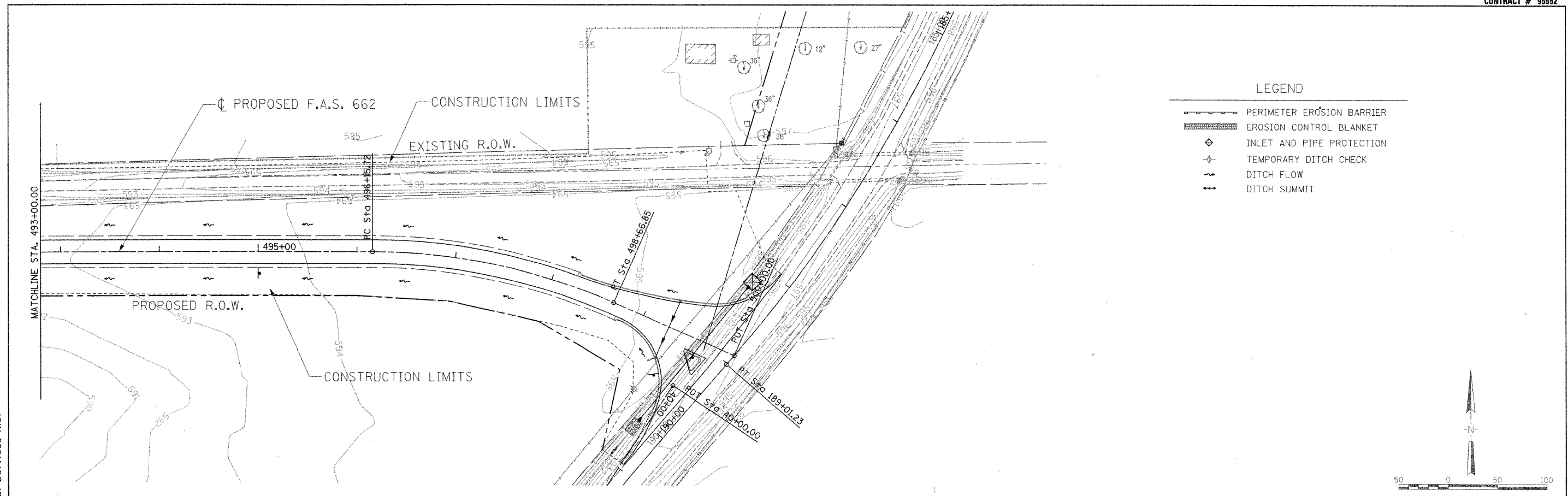
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL SHEETS

SCALE: SHEET NO. 2 OF 3 SHEETS STA. 463+00.00 TO STA. 493+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	00-00061-00-BR	CUMBERLAND	85	18
CONTRACT NO. 95552				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

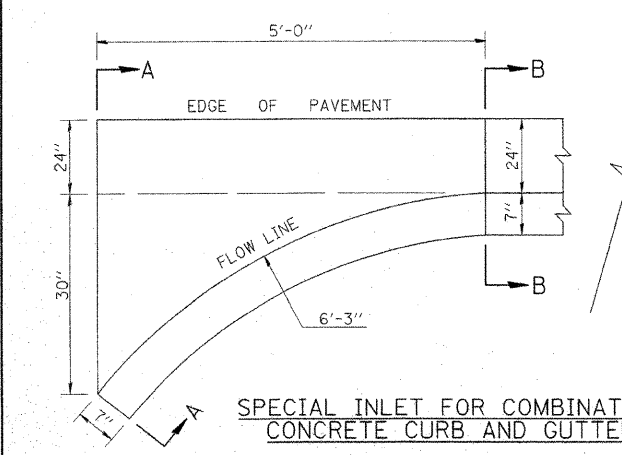
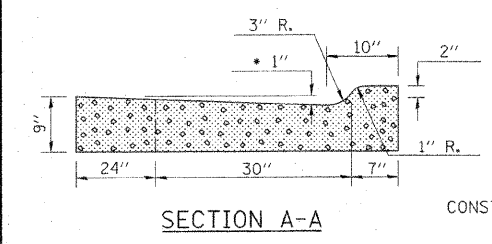
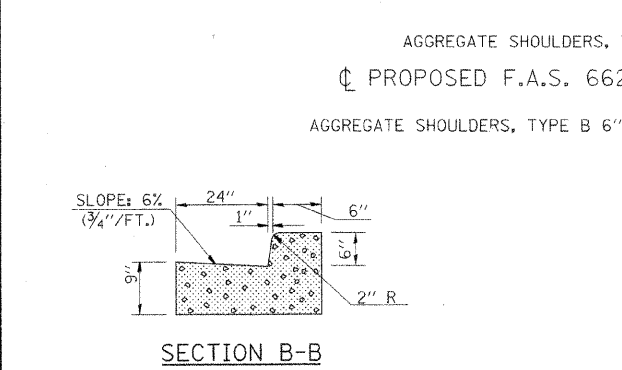
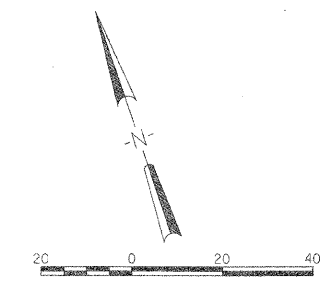
EROSION CONTROL SHEETS

SCALE: SHEET NO. 3 OF 3 SHEETS STA. 493+00.00 TO STA. END

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	00-00061-00-BR	CUMBERLAND	85	19
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 95552	

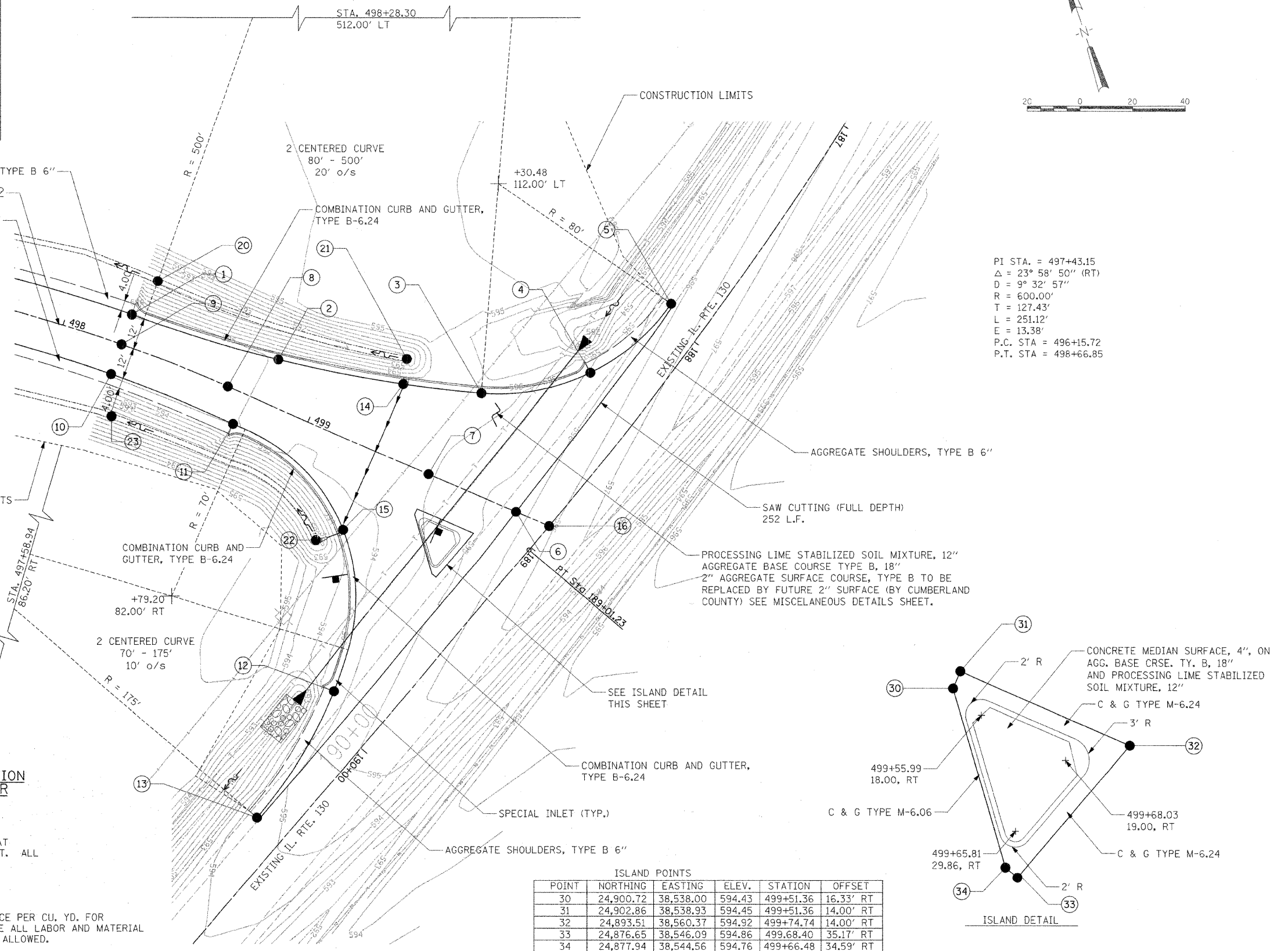
PAVEMENT POINTS					
POINT	NORTHING	EASTING	ELEV.	STATION	OFFSET
1	24,976.71	38,430.68	595.02	498+23.44	12.00' LT
2	24,959.62	38,486.29	594.47	498+80.41	16.98' LT
3	24,946.98	38,563.46	594.45	499+56.19	36.25' LT
4	24,954.63	38,604.90	595.05	499+91.13	59.83' LT
5	24,980.82	38,635.71	595.85	500+08.89	96.15' LT
6	24,901.73	38,576.53	595.30	499+86.27	0.00
7	24,916.24	38,543.28	594.68	499+50.00	0.00
8	24,949.49	38,467.07	594.76	498+66.85	0.00
9	24,965.39	38,426.69	594.78	498+23.44	0.00
10	24,954.08	38,422.70	594.54	498+23.44	12.00' RT
11	24,935.55	38,469.01	594.51	498+74.20	12.00' RT
12	24,833.81	38,507.20	594.39	499+49.88	89.98' RT
13	24,785.50	38,477.71	594.29	499+42.17	146.05' RT
14	24,950.26	38,534.63	594.24	499+28.46	27.72' LT
15	24,894.25	38,511.04	593.64	499+29.24	33.05' RT
16	24,896.24	38,589.11	595.90	500+00.00	0.00

DITCH POINTS					
POINT	NORTHING	EASTING	ELEV.	STATION	OFFSET
20	24,989.45	38,440.56	591.08	498+28.30	27.32' LT
21	24,959.87	38,535.15	591.36	499+25.00	36.74' LT
22	24,890.95	38,500.43	590.44	499+22.00	40.31' RT
23	24,938.43	38,422.82	590.16	498+29.01	26.69' RT

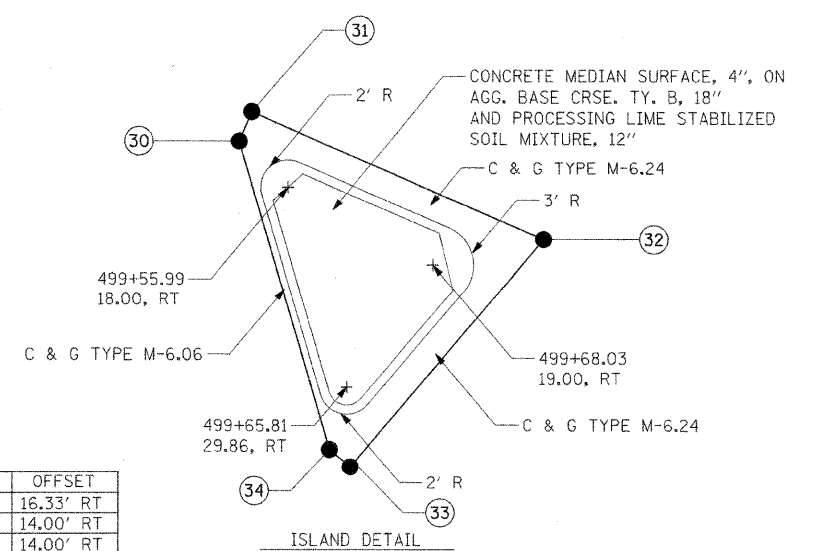


• INCREASE TO 2" WHERE IN THE PLANS IT IS SPECIFIED THAT THESE SPECIAL INLETS ARE TO BE CONSTRUCTED AS OUTLET. ALL OUTLET LOCATIONS WILL BE CONFIRMED BY THE ENGINEER.

- NOTES:
1. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
 2. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CU. YD. FOR CLASS SI CONCRETE (OUTLET) WHICH PRICE SHALL INCLUDE ALL LABOR AND MATERIAL AS SPECIFIED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.



PI STA. = 497+43.15
 Δ = 23° 58' 50" (RT)
 D = 9° 32' 57"
 R = 600.00'
 T = 127.43'
 L = 251.12'
 E = 13.38'
 P.C. STA = 496+15.72
 P.T. STA = 496+66.85



ISLAND POINTS					
POINT	NORTHING	EASTING	ELEV.	STATION	OFFSET
30	24,900.72	38,538.00	594.43	499+51.36	16.33' RT
31	24,902.86	38,538.93	594.45	499+51.36	14.00' RT
32	24,893.51	38,560.37	594.92	499+74.74	14.00' RT
33	24,876.65	38,546.09	594.86	499+68.40	35.17' RT
34	24,877.94	38,544.56	594.76	499+66.48	34.59' RT

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LAYOUT	MNM/DJP	10/10/07
DRAWN	DJP	10/10/07
REVIEWED	JNM	02/04/08

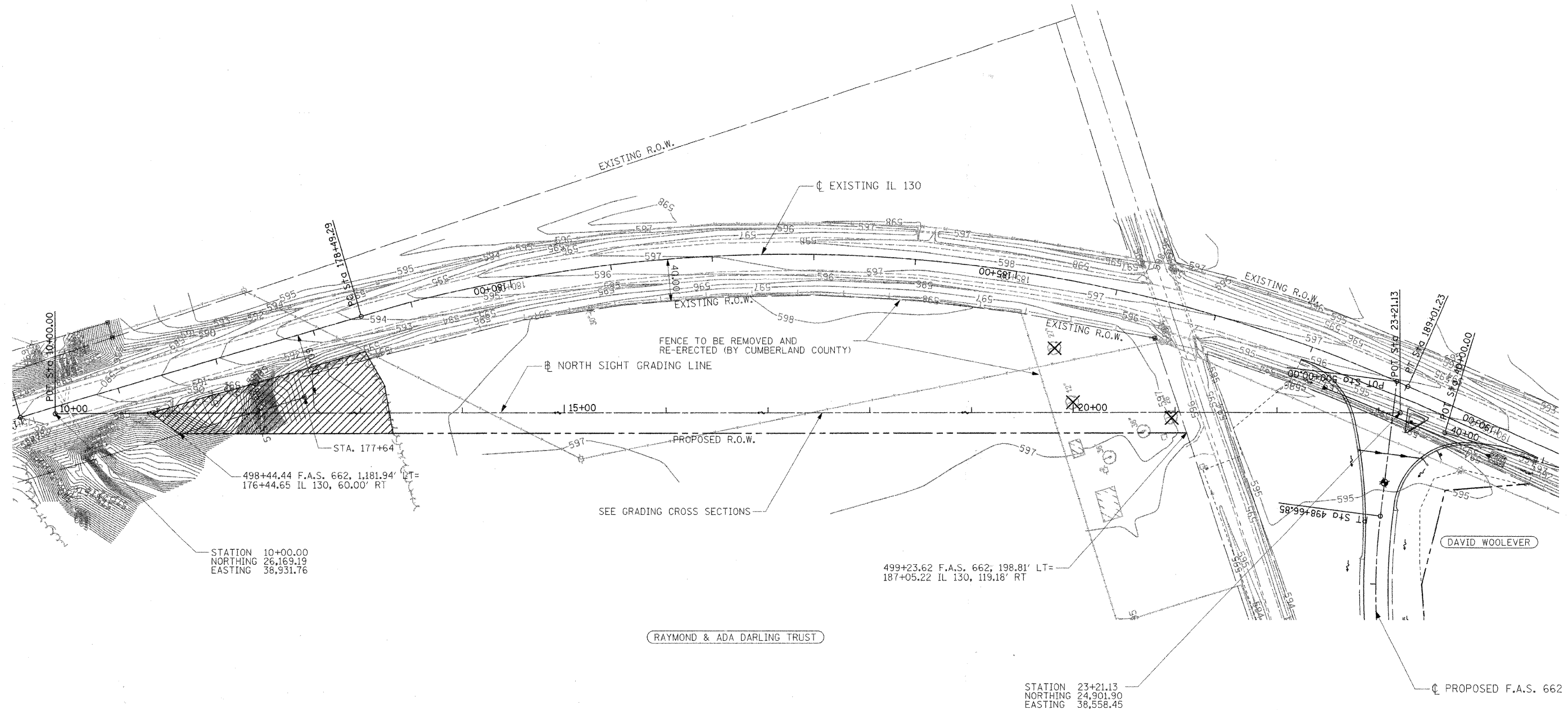
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

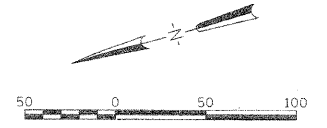
INTERSECTION DETAIL	
SCALE:	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE. 662	SECTION 00-00061-00-BR	COUNTY CUMBERLAND	TOTAL SHEETS 85	SHEET NO. 20
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 95552	

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- ✕ TREE REMOVAL (BY CUMBERLAND COUNTY)
- ▨ TREE REMOVAL, ACRE (BY CUMBERLAND COUNTY)



LAYOUT	MNM/DJP	10/10/07
DESIGN	DJP	10/10/07
REVISIONS	JMN	02/04/08

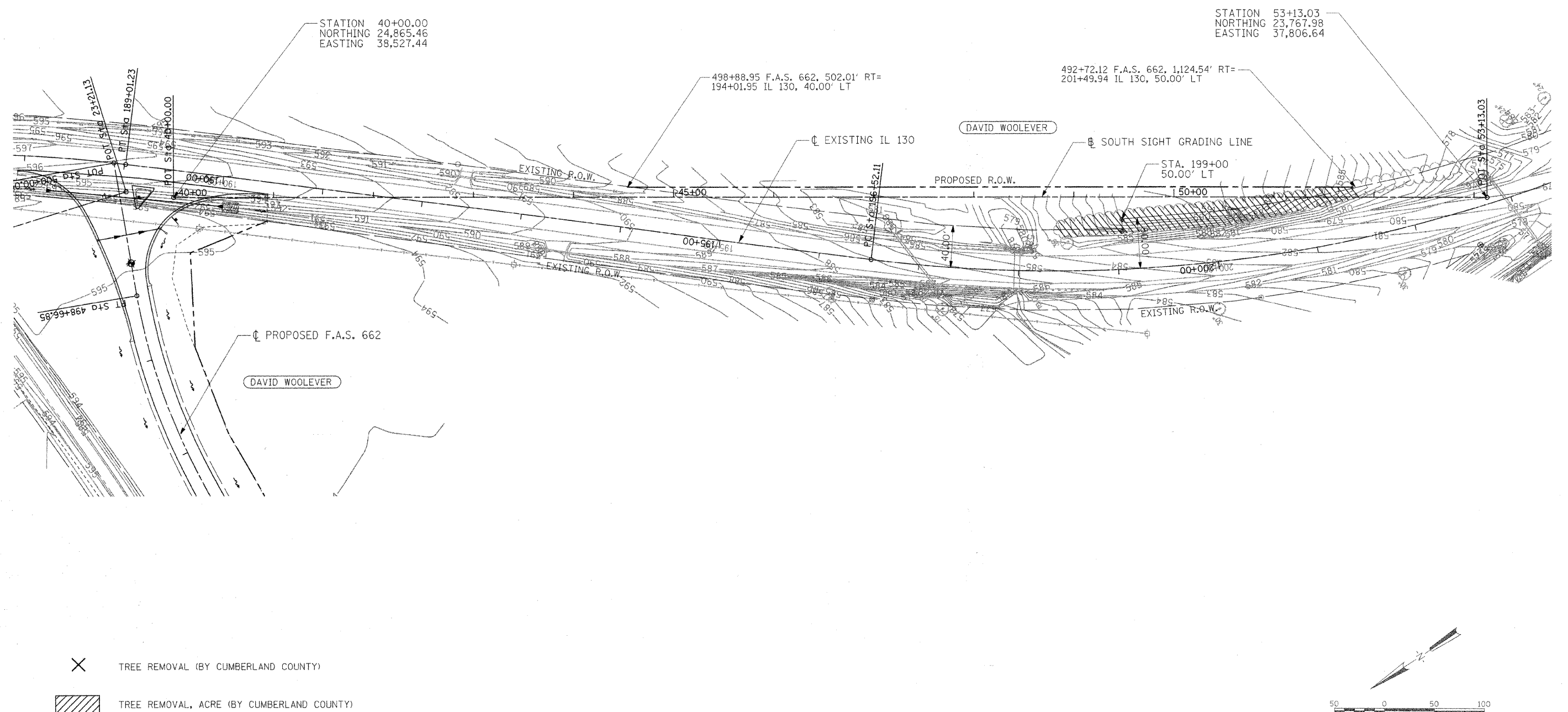
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

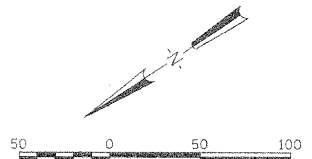
NORTH SIGHT GRADING PLAN	
SCALE:	SHEET NO. 1 OF 1 SHEETS STA. 10+00.00 TO STA. 23+21.13

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	00-00061-00-BR	CUMBERLAND	85	21
CONTRACT NO. 95552				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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X TREE REMOVAL (BY CUMBERLAND COUNTY)
 TREE REMOVAL, ACRE (BY CUMBERLAND COUNTY)



LAYOUT	MNM/DJP	10/10/07
DRAWN	DJP	10/10/07
REVIEWED	MNM	02/04/08

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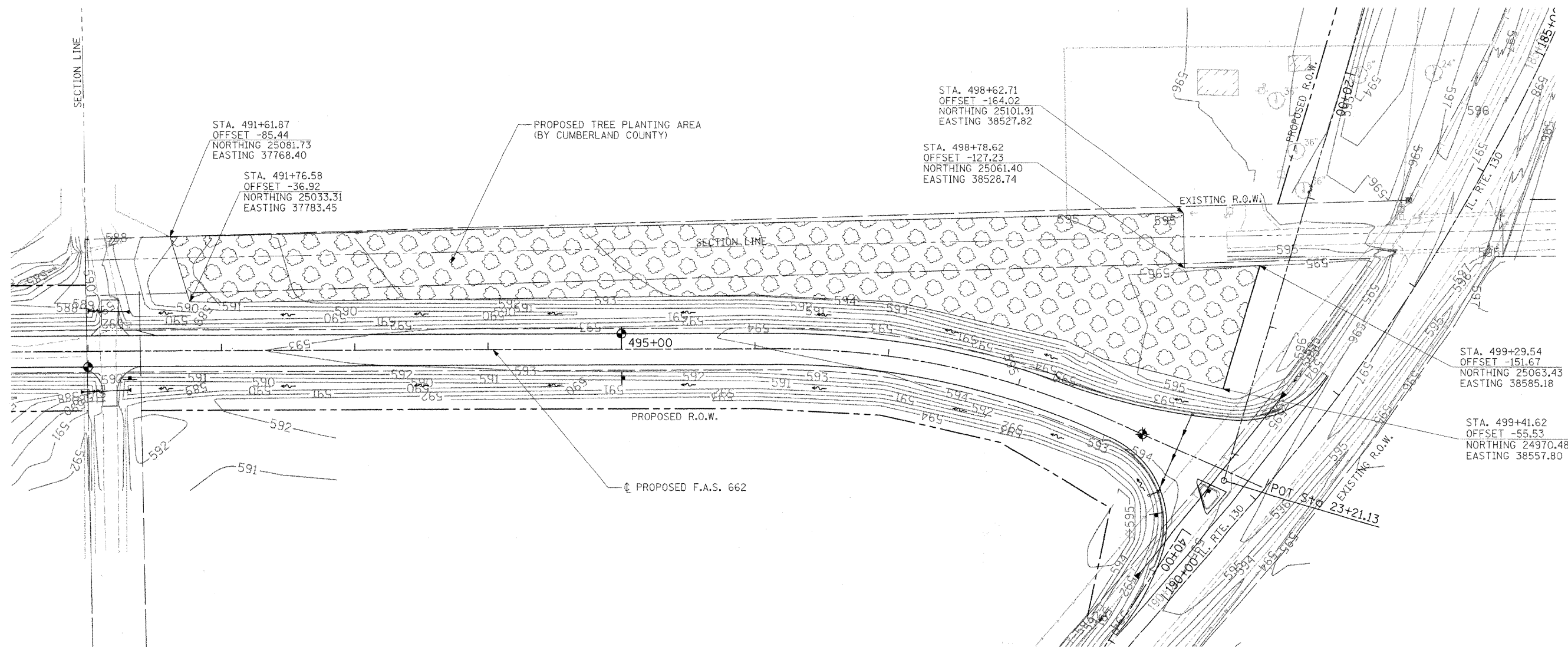
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SOUTH SIGHT GRADING PLAN

SCALE: SHEET NO. 1 OF 1 SHEETS STA. 40+00.00 TO STA. 53+13.03

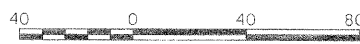
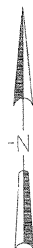
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	00-00061-00-BR	CUMBERLAND	85	22
CONTRACT NO. 95552				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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PLANT NATIVE MAST-PRODUCING TREE SPECIES. PLANT IN EQUAL PARTS AND IN RANDOM ORDER ON 15 FOOT CENTERS. TREE SPECIES TO BE PLANTED INCLUDE PIN OAK, BITTERNUT HICKORY, BLACK OAK, WHITE OAK, AND SHAGBARK HICKORY. IF COMERCIAALLY AVAILABLE. (WORK TO BE COMPLETED BY CUMBERLAND COUNTY.)

TYPE	QUANTITY (EA.)
PIN OAK	: 40
BITTERNUT HICKORY	: 40
BLACK OAK	: 40
WHITE OAK	: 40
SHAGBARK HICKORY	: 40
TOTAL	200



LAYOUT	MAN/DLP	10/10/07
DRAWN	DJP	10/10/07
REVIEWED	JMB	02/04/08

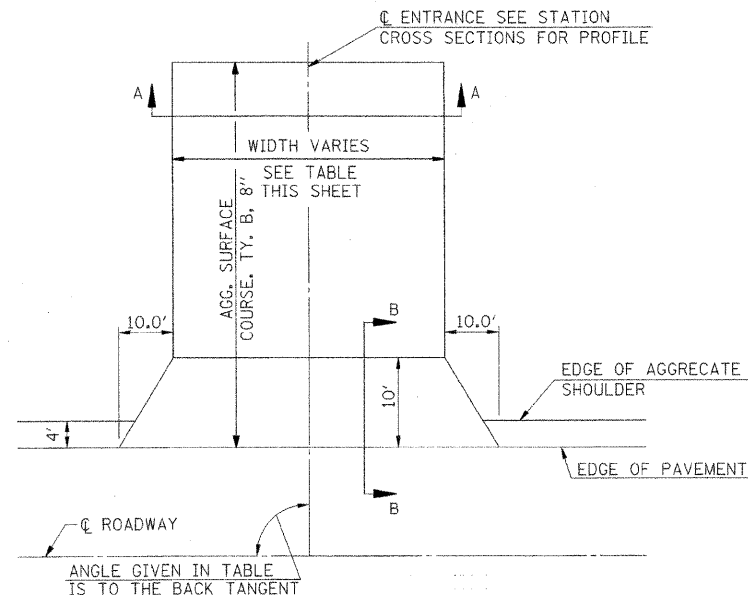
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

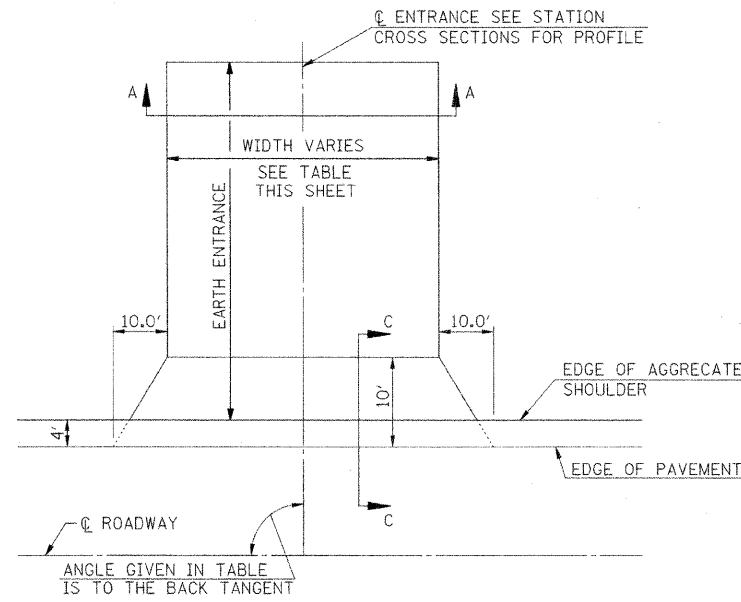
TREE REPLACEMENT PLAN

SCALE: SHEET NO. 1 OF 1 SHEETS

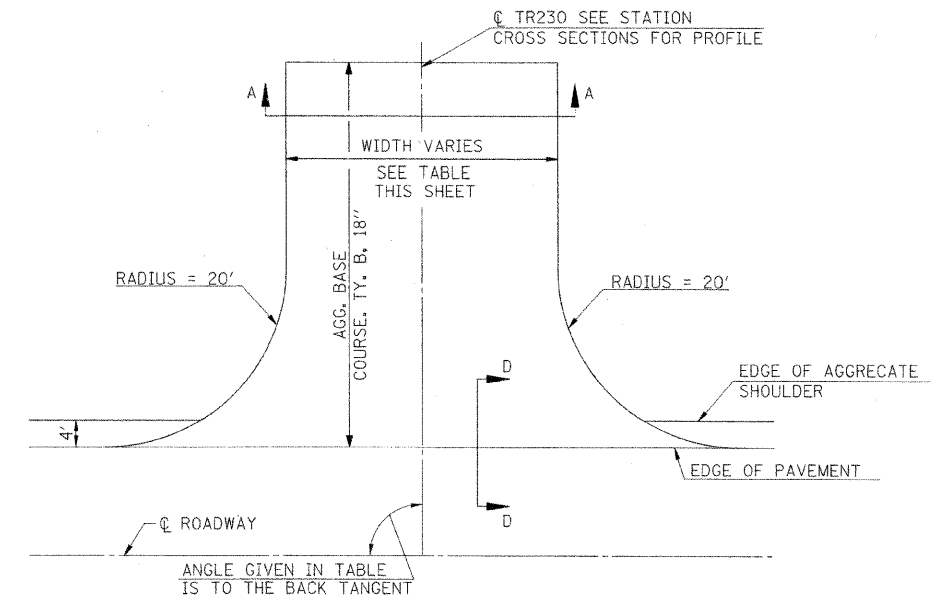
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CONTRACT NO. 95552				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



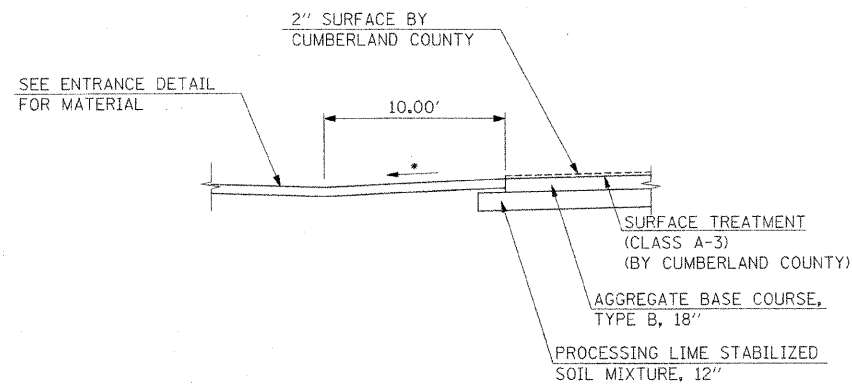
TYPICAL PRIVATE ENTRANCE DETAIL



TYPICAL FIELD ENTRANCE DETAIL

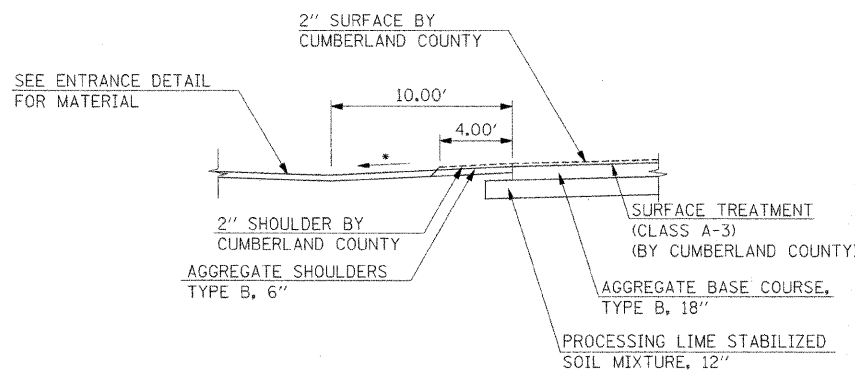


TOWNSHIP ROAD DETAIL



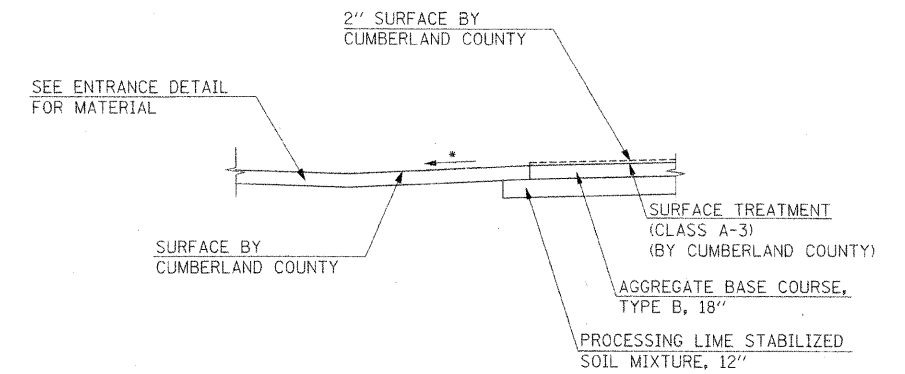
SECTION B-B

SEE STATION CROSS SECTIONS FOR PROFILE



SECTION C-C

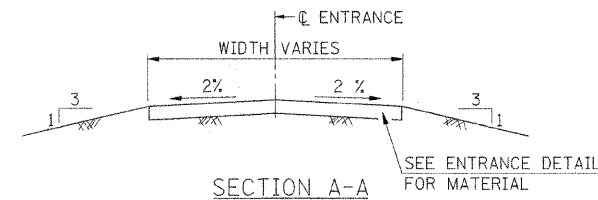
SEE STATION CROSS SECTIONS FOR PROFILE



SECTION D-D

SEE STATION CROSS SECTIONS FOR PROFILE

ENTRANCE SCHEDULE					
ROADWAY	STATION	LT/RT	ANGLE	F.E./P.E.	WIDTH
F.A.S. 662	440+12.92	RT	76°	P.E.	15'
F.A.S. 662	440+15.00	LT	90°	P.E.	24'
F.A.S. 662	446+72.00	LT	90°	F.E.	24'
F.A.S. 662	446+81.00	RT	90°	F.E.	12'
F.A.S. 662	465+76.00	LT	90°	F.E.	24'
F.A.S. 662	475+00.00	RT	90°	F.E.	24'
F.A.S. 662	475+00.00	LT	90°	F.E.	24'
F.A.S. 662	487+00.00	LT	90°	F.E.	24'
F.A.S. 662	487+00.00	RT	90°	F.E.	24'
F.A.S. 662	491+16.60	LT	90°	P.E.	12'
F.A.S. 662	491+16.60	RT	90°	TR 230	10.5'



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LAYOUT: MM/07/10/10/07
 DRAWN: DJP 10/10/07
 REVIEWED: JMM 10/2/09/08

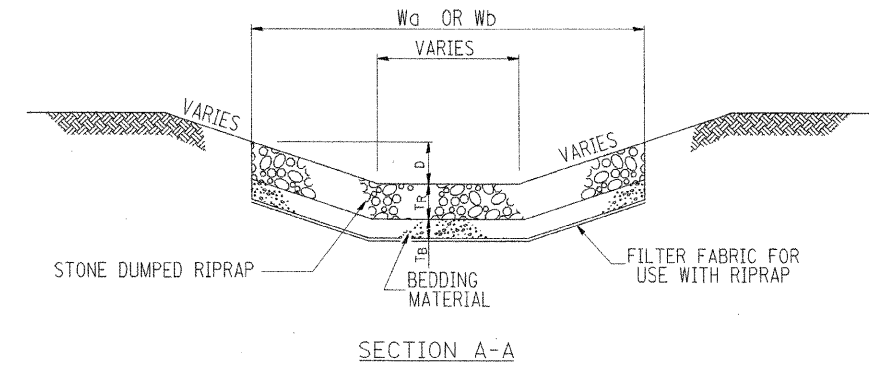
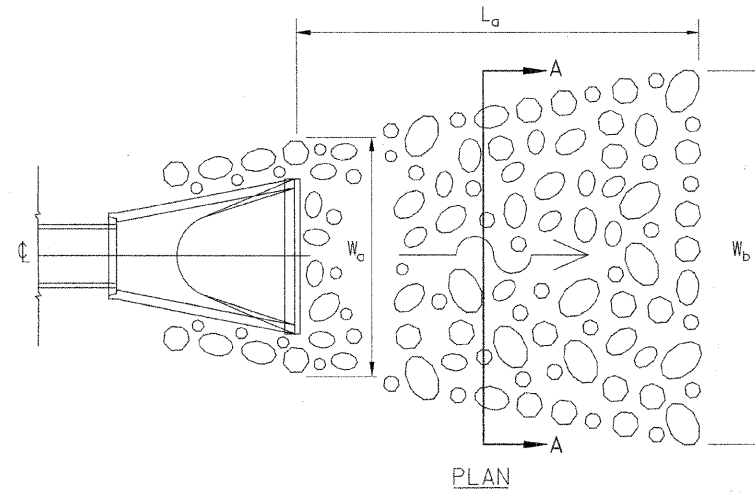
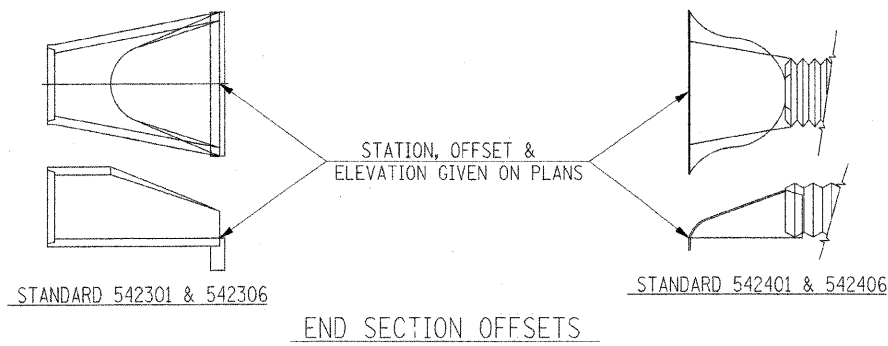
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ENTRANCE DETAILS

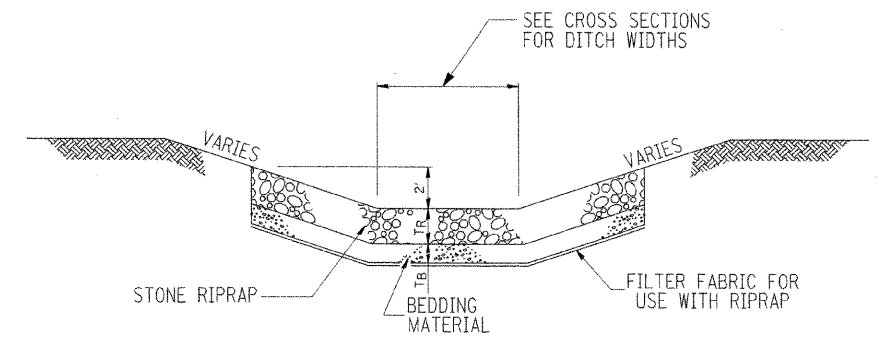
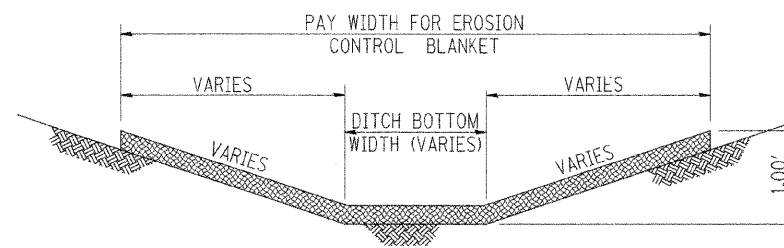
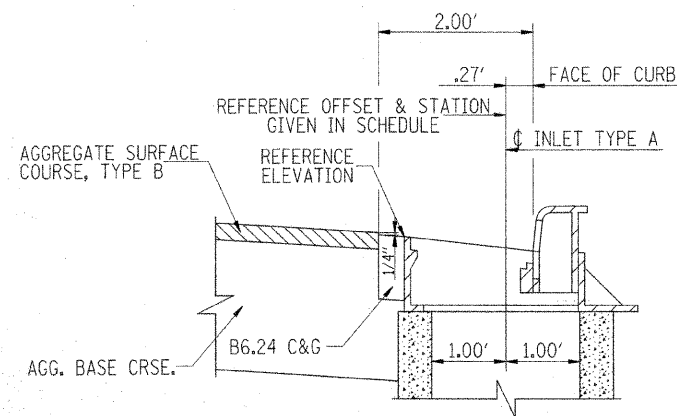
SCALE: SHEET NO. 1 OF 1 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	00-00061-00-BR	CUMBERLAND	85	24
CONTRACT NO. 95552				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



ROADWAY	STATION	OFFSET	CULVERT DIAMETER	L _a	D	W _a	W _b	STONE DUMPED RIPRAP CLASS	T _r	T _b
				INCHES	FEET	FEET	FEET		FEET	INCHES
F.A.S. 662	446+72.00	LT	18	16	2	14	14	A4	20	6
F.A.S. 662	446+81.00	RT	18	16	2	14	14	A4	20	6
F.A.S. 662	464+76.00	RT	36	24		12	27	A4	20	6
F.A.S. 662	489+98.00	LT	60	36	4	18	18	A6	32	10
F.A.S. 662	489+98.00	RT	60	36	4	18	18	A6	32	10
F.A.S. 662	491+16.60	LT	18	16	2	14	14	A4	20	6
F.A.S. 662	491+16.60	RT	18	16	2	14	14	A4	20	6
F.A.S. 662	499+65.65	RT	18	16	2	10	10	A4	20	6

TYPICAL RIPRAP LAYOUT AT CULVERT OUTLETS / INLETS



STONE RIPRAP	RIPRAP THICKNESS (T _R)	BEDDING THICKNESS (T _B)
A4	18"	6"

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LAYOUT: MNM/DJP 10/10/07
 DRAWN: DJP 10/10/07
 REVIEWED: JNM 10/04/08

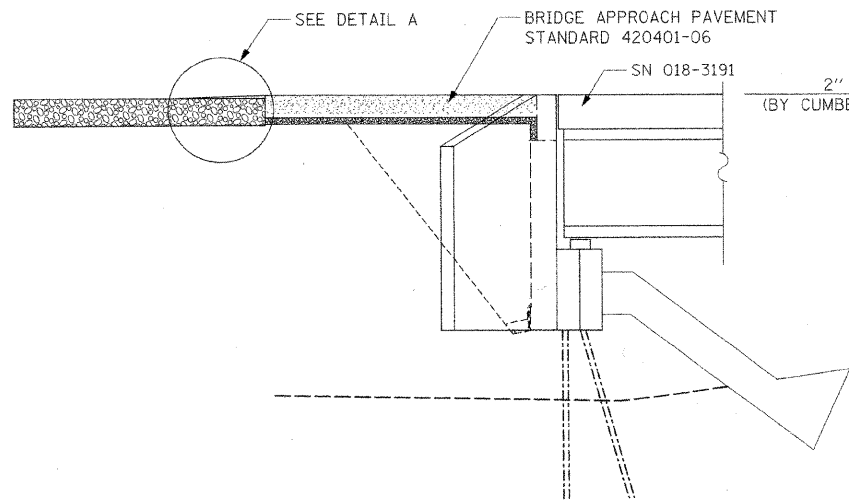
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRAINAGE DETAILS

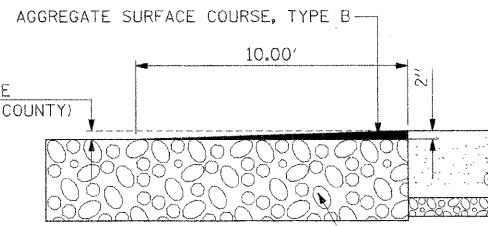
SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 95552				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



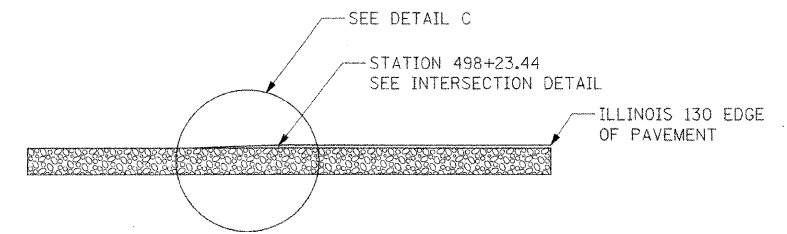
TRANSITION DETAIL TO APPROACH PAVEMENT

WEST APPROACH STATION 468+21.00
EAST APPROACH STATION 473+29.00



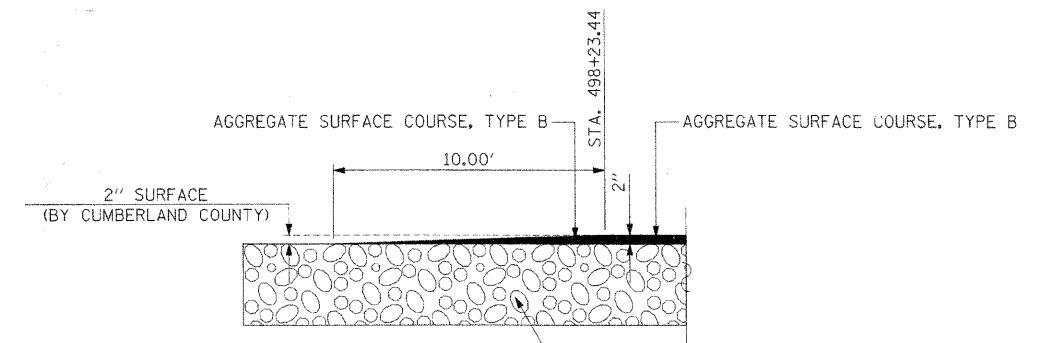
DETAIL A

SEE PROPOSED TYPICAL SECTION FOR MATERIAL



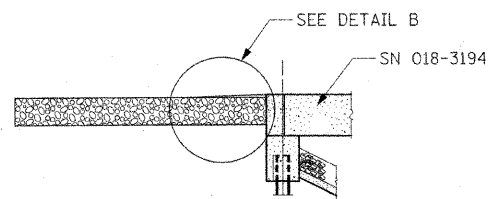
TRANSITION DETAIL TO INTERSECTION

STATION 498+23.44



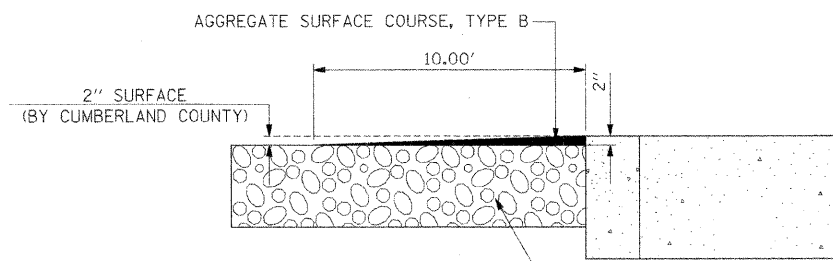
DETAIL C

SEE PROPOSED TYPICAL SECTION FOR MATERIAL



TRANSITION DETAIL TO ABUTMENT

WEST ABUTMENT STATION 476+69.50
EAST ABUTMENT STATION 478+54.50



DETAIL B

SEE PROPOSED TYPICAL SECTION FOR MATERIAL

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LAYOUT	MNM/DJP	10/10/07
DRAWN	DJP	10/10/07
REVIEWED	JMN	02/04/08

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MISCELLANEOUS DETAILS

SCALE: SHEET NO. 1 OF 1 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	00-00061-00-BR	CUMBERLAND	85	26
CONTRACT NO. 95552				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Page 1 of 1

Date 9/19/07

ROUTE FAS 662 (TR 61) DESCRIPTION Line Borings: TR 61 Extension LOGGED BY E. Sandschafer
SECTION 01-00061-00-BR LOCATION W 1/2, SEC. 12, TWP. 10 N, RNG. 9 E, 3 PM
COUNTY Cumberland DRILLING METHOD Hydraulic pushed HAMMER TYPE N/A

Table with columns for Depth (ft), Blows (blows/6"), Moisture (%), and Soil Description. Includes data for layers like 'Hard, very moist, brown, CLAY TILL w/ Coarse Gravel' and 'Brown, very fine grained, SAND. 8% passing #200 sieve.'

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 9/19/07

ROUTE FAS 662 (TR 61) DESCRIPTION Line Borings: TR 61 Extension LOGGED BY E. Sandschafer
SECTION 01-00061-00-BR LOCATION W 1/2, SEC. 12, TWP. 10 N, RNG. 9 E, 3 PM
COUNTY Cumberland DRILLING METHOD Hydraulic pushed HAMMER TYPE N/A

Table with columns for Depth (ft), Blows (blows/6"), Moisture (%), and Soil Description. Includes data for layers like 'Stiff to very stiff, damp, brown, SANDY LOAM.' and 'Stiff, damp, brown, SILTY CLAY LOAM.'

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 9/19/07

ROUTE FAS 662 (TR 61) DESCRIPTION Line Borings: TR 61 Extension LOGGED BY E. Sandschafer
SECTION 01-00061-00-BR LOCATION W 1/2, SEC. 12, TWP. 10 N, RNG. 9 E, 3 PM
COUNTY Cumberland DRILLING METHOD Hydraulic pushed HAMMER TYPE N/A

Table with columns for Depth (ft), Blows (blows/6"), Moisture (%), and Soil Description. Includes data for layers like 'Very stiff, very moist, brown, CLAY LOAM.' and 'Medium, damp, brown, CLAY LOAM.'

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

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Latitude N 88 deg 08.175 min, Longitude W 89 deg 18.487 min, Map Datum NAD 83

Latitude N 88 deg 08.247 min, Longitude W 89 deg 18.488 min, Map Datum NAD 83

Latitude N 88 deg 08.172 min, Longitude W 89 deg 18.489 min, Map Datum NAD 83

Table with columns for LAYOUT, DRAWN, REVIEWED, and dates: MM/DD/YY

Table with columns for FILE NAME, USER NAME, DESIGNED, DRAWN, CHECKED, PLOT SCALE, PLOT DATE, REVISED, and DATE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ROADWAY BORING SHEET SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.

Table with columns for F.A.S. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO., and FED. ROAD DIST. NO.



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

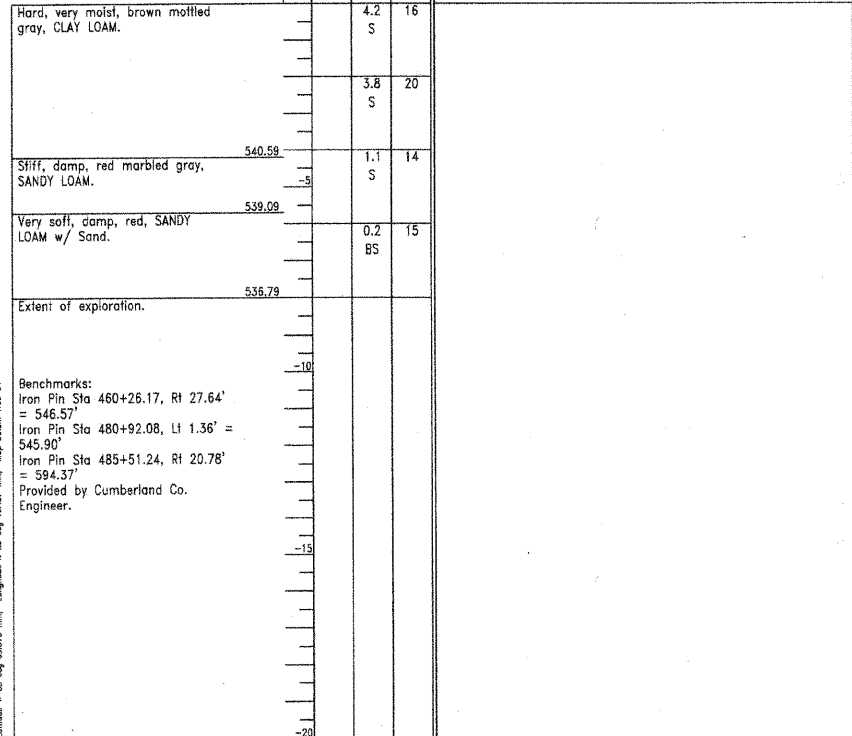
Date 9/19/07

ROUTE FAS 662 (TR 61) DESCRIPTION Line Borings: TR 61 Extension LOGGED BY E. Sandschafer

SECTION 01-00061-00-BR LOCATION W 1/2, SEC. 12, TWP. 10 N, RNG. 9 E, 3 PM

COUNTY Cumberland DRILLING METHOD Hydraulic pushed HAMMER TYPE N/A

STRUCT. NO. gINT File	D	B	U	M	Surface Water Elev.	N/A	ft
Station 018-TR 61 Embarras	E	L	C	O	Stream Bed Elev.	N/A	ft
	P	O	S	I			
	T	W	S	S			
BORING NO. LB 4	H	S	Qu	T	Groundwater Elev.:		
Station 461+00					First Encounter	Dry	ft
Offset 13.00ft Rt					Upon Completion	Dry	ft
Ground Surface Elev. 544.79	ft	(ft)	(/6")	(tsf)	After	Hrs.	ft



The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

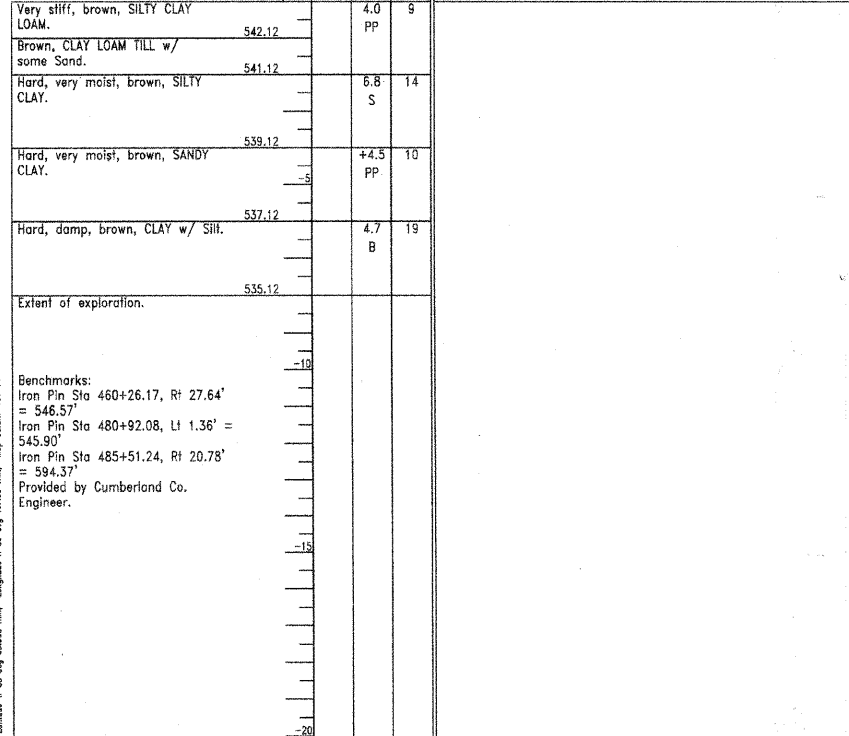
Date 9/19/07

ROUTE FAS 662 (TR 61) DESCRIPTION Line Borings: TR 61 Extension LOGGED BY E. Sandschafer

SECTION 01-00061-00-BR LOCATION W 1/2, SEC. 12, TWP. 10 N, RNG. 9 E, 3 PM

COUNTY Cumberland DRILLING METHOD Hydraulic pushed HAMMER TYPE N/A

STRUCT. NO. gINT File	D	B	U	M	Surface Water Elev.	N/A	ft
Station 018-TR 61 Embarras	E	L	C	O	Stream Bed Elev.	N/A	ft
	P	O	S	I			
	T	W	S	S			
BORING NO. LB 5	H	S	Qu	T	Groundwater Elev.:		
Station 466+00					First Encounter	Dry	ft
Offset 6.00ft Lt					Upon Completion	Dry	ft
Ground Surface Elev. 543.12	ft	(ft)	(/6")	(tsf)	After	Hrs.	ft



The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

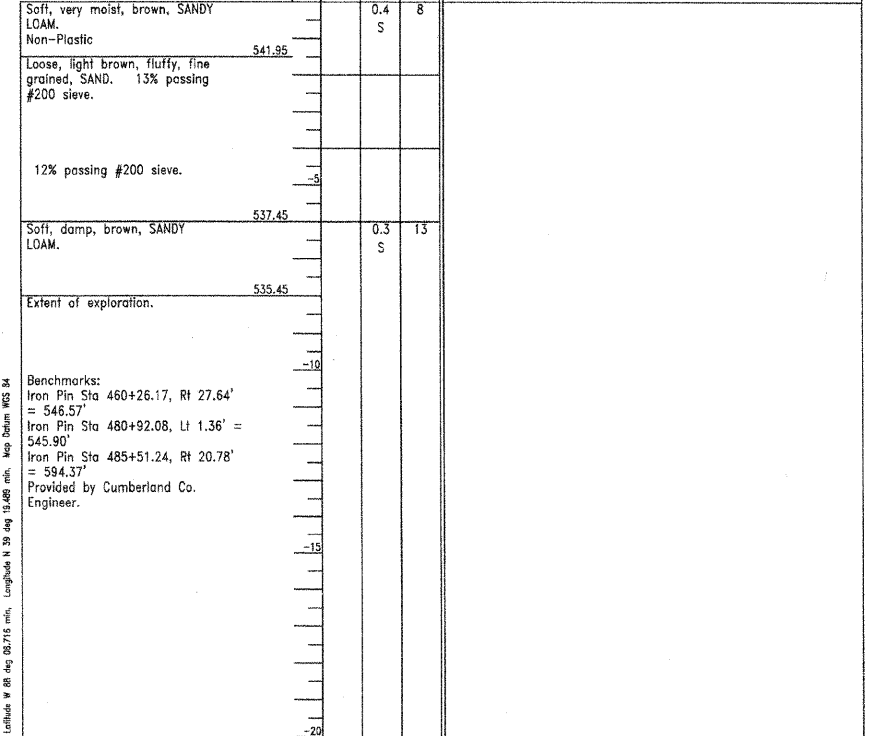
Date 9/18/07

ROUTE FAS 662 (TR 61) DESCRIPTION Line Borings: TR 61 Extension LOGGED BY E. Sandschafer

SECTION 01-00061-00-BR LOCATION W 1/2, SEC. 12, TWP. 10 N, RNG. 9 E, 3 PM

COUNTY Cumberland DRILLING METHOD Hydraulic pushed HAMMER TYPE N/A

STRUCT. NO. gINT File	D	B	U	M	Surface Water Elev.	N/A	ft
Station 018-TR 61 Embarras	E	L	C	O	Stream Bed Elev.	N/A	ft
	P	O	S	I			
	T	W	S	S			
BORING NO. LB 6	H	S	Qu	T	Groundwater Elev.:		
Station 475+00					First Encounter	Dry	ft
Offset 0.00ft Cl					Upon Completion	Dry	ft
Ground Surface Elev. 543.45	ft	(ft)	(/6")	(tsf)	After	Hrs.	ft



The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

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LAYOUT	MNM/DJP	10/10/07
DRAWN	DJP	10/10/07
REVIEWED	JNM	10/09/08

FILE NAME =	USER NAME = Pop02275	DESIGNED - MNM/DJP	REVISED -
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		CHECKED - MNM	REVISED -
		DATE - 10/10/07	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY BORING SHEET
SCALE: SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	00-00061-00-BR	CUMBERLAND	85	28
CONTRACT NO. 95552				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Page 1 of 1

Date 9/18/07

ROUTE FAS 662 (TR 61) DESCRIPTION Line Borings: TR 61 Extension LOGGED BY E. Sandschafer
SECTION 01-00061-00-BR LOCATION W 1/2, SEC. 12, TWP. 10 N, RNG. 9 E, 3 PM
COUNTY Cumberland DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

Table with columns for Soil Description, Depth (ft), Blows (6"/ft), SPT (ft), and SPT (%). Includes soil types like SANDY CLAY TILL, SILTY CLAY, and SANDY LOAM.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 9/18/07

ROUTE FAS 662 (TR 61) DESCRIPTION Line Borings: TR 61 Extension LOGGED BY E. Sandschafer
SECTION 01-00061-00-BR LOCATION W 1/2, SEC. 12, TWP. 10 N, RNG. 9 E, 3 PM
COUNTY Cumberland DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

Table with columns for Soil Description, Depth (ft), Blows (6"/ft), SPT (ft), and SPT (%). Includes soil types like SILTY LOAM, SANDY LOAM TILL, and CLAY LOAM TILL.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 9/18/07

ROUTE FAS 662 (TR 61) DESCRIPTION Line Borings: TR 61 Extension LOGGED BY E. Sandschafer
SECTION 01-00061-00-BR LOCATION W 1/2, SEC. 12, TWP. 10 N, RNG. 9 E, 3 PM
COUNTY Cumberland DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

Table with columns for Soil Description, Depth (ft), Blows (6"/ft), SPT (ft), and SPT (%). Includes soil types like SANDY CLAY TILL, SANDY LOAM TILL, and CLAY LOAM TILL.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

HANSON Professional Services Inc. logo and name

Vertical stamp with dates: 10/10/07, 10/10/07, 02/04/08

Table with columns: FILE NAME, USER NAME, DESIGNED, REVISED, DRAWN, CHECKED, DATE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ROADWAY BORING SHEET
SCALE: SHEET NO. 3 OF 4 SHEETS

Table with columns: F.A.S. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO.



SOIL BORING LOG

Page 1 of 1

Date 9/18/07

ROUTE FAS 662 (TR 61) DESCRIPTION Line Borings: TR 61 Extension LOGGED BY E. Sandschafer

SECTION 01-00061-00-BR LOCATION W 1/2, SEC. 12, TWP. 10 N, RNG. 9 E, 3 PM

COUNTY Cumberland DRILLING METHOD Hydraulic pushed HAMMER TYPE N/A

STRUCT. NO. gINT File
 Station 018-TR 61 Embarras

BORING NO. LB 10
 Station 491+00
 Offset 12.00ft Rt
 Ground Surface Elev. 588.94 ft

DEPTH (ft)	DIAMETER (in)	SOIL TYPE	MOISTURE (%)	UNSATURATED WATER CONTENT (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter (ft)	Upon Completion (ft)	After (Hrs)
0	2.5	S	14		N/A	N/A				
584.94	2.3	B	15							
582.64	1.7	B	16							
580.94	0.5	B	19							

Extent of exploration. 580.94

Benchmarks:
 Iron Pin Sta 460+26.17, Rt 27.64' = 546.57'
 Iron Pin Sta 480+92.08, Lt 1.36' = 545.90'
 Iron Pin Sta 485+51.24, Rt 20.78' = 594.37'
 Provided by Cumberland Co. Engineer.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 9/18/07

ROUTE FAS 662 (TR 61) DESCRIPTION Line Borings: TR 61 Extension LOGGED BY E. Sandschafer

SECTION 01-00061-00-BR LOCATION W 1/2, SEC. 12, TWP. 10 N, RNG. 9 E, 3 PM

COUNTY Cumberland DRILLING METHOD Hydraulic pushed HAMMER TYPE N/A

STRUCT. NO. gINT File
 Station 018-TR 61 Embarras

BORING NO. LB 11
 Station 495+00
 Offset 12.00ft Lt
 Ground Surface Elev. 593.83 ft

DEPTH (ft)	DIAMETER (in)	SOIL TYPE	MOISTURE (%)	UNSATURATED WATER CONTENT (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter (ft)	Upon Completion (ft)	After (Hrs)
0	3.5	PP	11		N/A	N/A				
589.83	4.1	PP	16							
587.83	1.1	B	18							
585.83	1.0	B	19							

Extent of exploration. 585.83

Benchmarks:
 Iron Pin Sta 460+26.17, Rt 27.64' = 546.57'
 Iron Pin Sta 480+92.08, Lt 1.36' = 545.90'
 Iron Pin Sta 485+51.24, Rt 20.78' = 594.37'
 Provided by Cumberland Co. Engineer.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 9/18/07

ROUTE FAS 662 (TR 61) DESCRIPTION Line Borings: TR 61 Extension LOGGED BY E. Sandschafer

SECTION 01-00061-00-BR LOCATION W 1/2, SEC. 12, TWP. 10 N, RNG. 9 E, 3 PM

COUNTY Cumberland DRILLING METHOD Hydraulic pushed HAMMER TYPE N/A

STRUCT. NO. gINT File
 Station 018-TR 61 Embarras

BORING NO. LB 12
 Station 499+00
 Offset 0.00ft Cl
 Ground Surface Elev. 595.04 ft

DEPTH (ft)	DIAMETER (in)	SOIL TYPE	MOISTURE (%)	UNSATURATED WATER CONTENT (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter (ft)	Upon Completion (ft)	After (Hrs)
0	2.5	PP	11		N/A	N/A				
593.04	6.6	BS	19							
587.04	1.7	B	15							
585.04	1.7	B	17							

Extent of exploration. 585.04

Benchmarks:
 Iron Pin Sta 460+26.17, Rt 27.64' = 546.57'
 Iron Pin Sta 480+92.08, Lt 1.36' = 545.90'
 Iron Pin Sta 485+51.24, Rt 20.78' = 594.37'
 Provided by Cumberland Co. Engineer.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

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LAYOUT: MNM/DJP 10/10/07
 DRAWN: DJP 10/10/07
 REVIEWED: JMW 02/04/08

FILE NAME = I:\01\jobs\01a20218\CADD\Road\Sheet\C-5L.dgn	USER NAME = Pop00275	DESIGNED - MNM/DJP	REVISED -
		DRAWN - DJP	REVISED -
		CHECKED - MNM	REVISED -
		DATE - 10/10/07	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROADWAY BORING SHEET

SCALE: SHEET NO. 4 OF 4 SHEETS

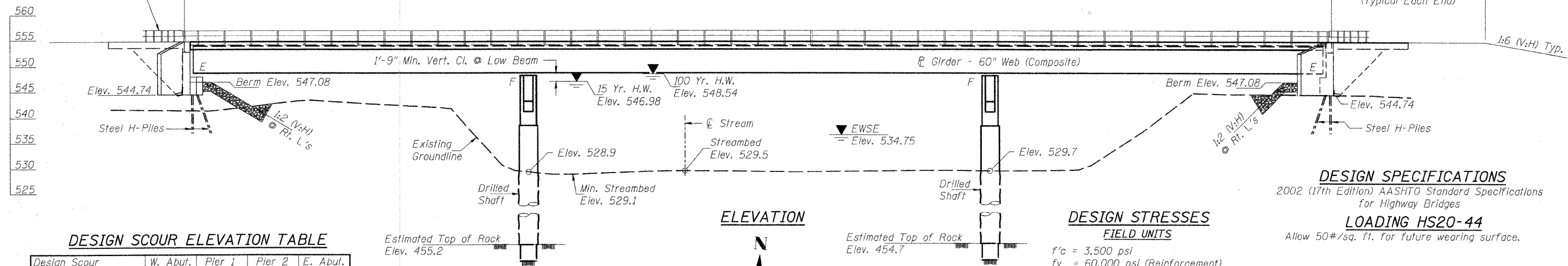
F.A.S. RTE. 662	SECTION 00-00061-00-BR	COUNTY CUMBERLAND	TOTAL SHEETS 85	SHEET NO. 30
CONTRACT NO. 95552				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

B.M. : Mag nail near west bank, Station 468+48.95, Rt. 2.56', Elev. 541.80
 Wood hub, Station 471+78.76, Rt. 43.38', Elev. 545.70
 Iron pin, Station 474+93.38, Rt. 29.24', Elev. 544.23

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
FAS 662 (TR 61)	*	CUMBERLAND	85	31	26 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	*Section 01-00061-00-BR Contract #95552		

Existing Structure: None

Traffic Barrier Terminal,
 Type 5A (Standard B.L.R. 27)
 Typ. Ea. End



DESIGN SPECIFICATIONS
 2002 (17th Edition) AASHTO Standard Specifications
 for Highway Bridges
LOADING HS20-44
 Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES
 FIELD UNITS

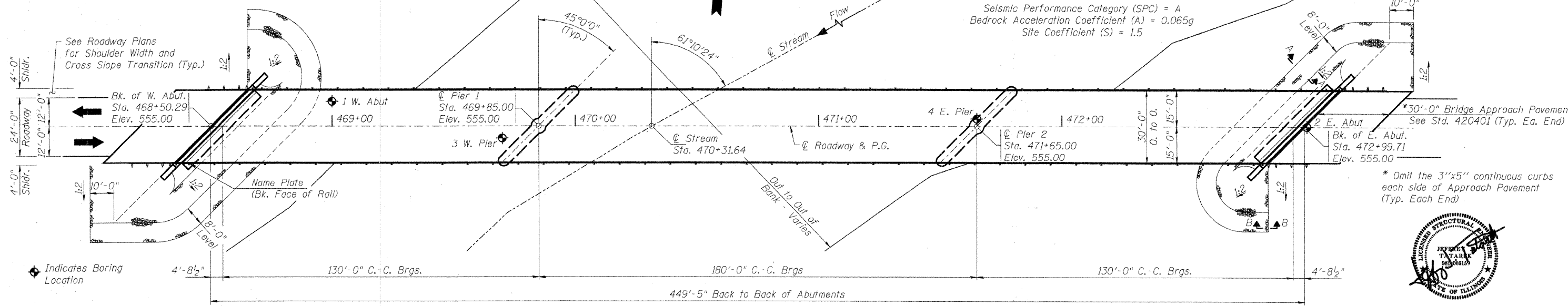
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50W Structural Steel)

SEISMIC DATA

Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.065g
 Site Coefficient (S) = 1.5

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.) 100 Yr.	W. Abut.	Pier 1	Pier 2	E. Abut.
	544.74	520.00	520.00	544.74

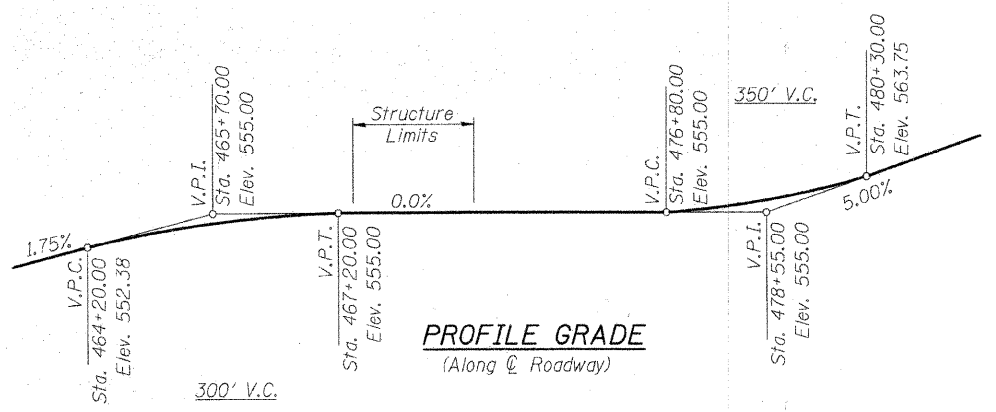


PLAN

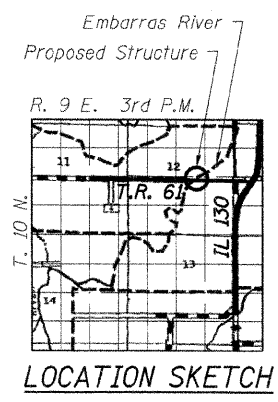
Note: See Sheet 2 of 26 for Section A-A & B-B.

WATERWAY INFORMATION

Flood	Freq. Yr.	Description	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Q C.F.S.	Exist. Prop.		Exist.	Prop.	Exist.	Prop.
Design	15	Overflow Bridge	2630	-	785	-	-	-	-
		River Bridge	15720	-	2614	546.98	-	0.20	546.98 547.18
		Over-The-Road Flow	0	-	0	-	-	-	-
Total			18350	-	3399	-	-	-	-
Overtopping	50	Overflow Bridge	5720	-	1021	548.00	-	-	548.00
		River Bridge	16040	-	2849	548.54	-	0.45	548.54 549.09
		Over-The-Road Flow	4970	-	1787	-	-	-	-
Total			26730	-	5657	-	-	-	-
Max. Calc.	500	Overflow Bridge	6420	-	1176	-	-	-	-
		River Bridge	15080	-	2849	549.57	-	0.43	549.57 550.00
		Over-The-Road Flow	12390	-	3449	-	-	-	-
Total			33890	-	7474	-	-	-	-



PROFILE GRADE
 (Along \bar{C} Roadway)



LOCATION SKETCH

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

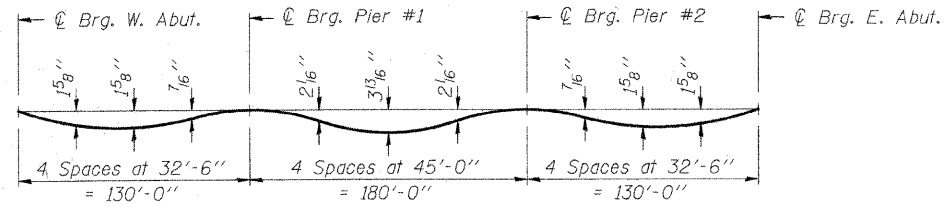
GENERAL PLAN
 F.A.S. 662 (TR 61) OVER EMBARRAS RIVER
 CUMBERLAND COUNTY
 SECTION 01-00061-00-BR
 STA. 470+75.00
 STRUCTURE NUMBER 018-3191
 PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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 SHEET NO. 01S2021B
 DATE 02/04/08



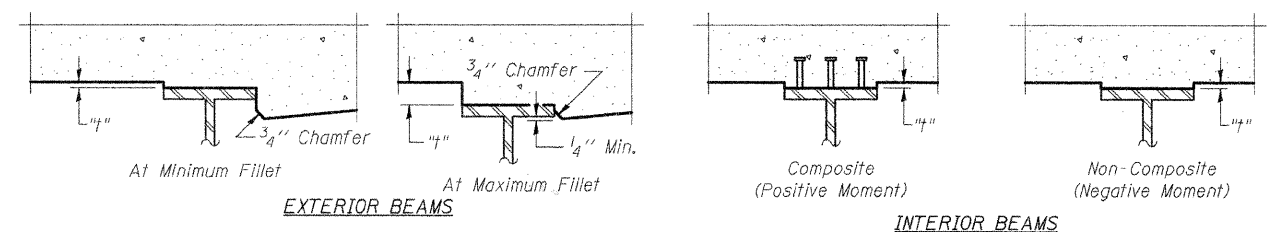
SIGNATURE
4-3-08
 DATE
 LIC. EXP. DATE: 11-30-08

04/03/2008 03:25 PM
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 LAYOUT: JMN 11/30/07
 DRAWN: DAB 12/28/07
 REVIEWED: JMN 02/04/08



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only.)

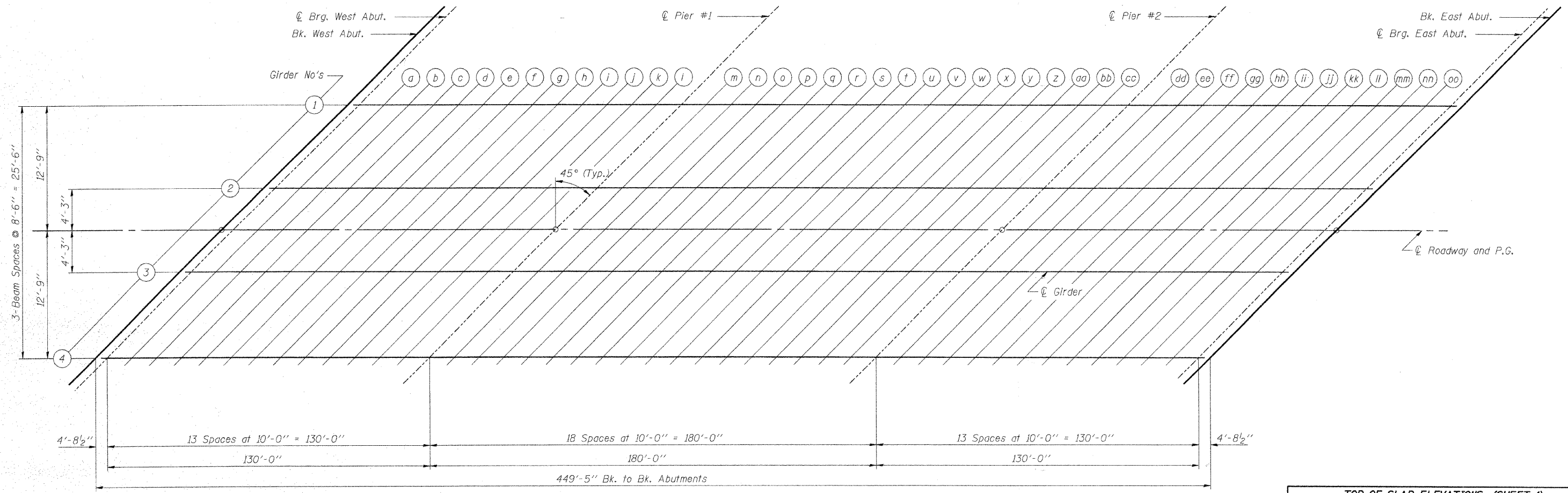
Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheet 4 & 5 of 26.



EXTERIOR BEAMS **INTERIOR BEAMS**

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet 4 & 5 of 26, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



DIAGRAMMATIC PLAN



TOP OF SLAB ELEVATIONS (SHEET 1)
F.A.S. 662 (TR 6) OVER EMBARRAS RIVER
CUMBERLAND COUNTY
SECTION 01-00061-00-BR
STA. 470+75.00
STRUCTURE NUMBER 018-3191
PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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JOB NO. 0152021B
DATE 02/04/08

04/01/2008 03:06 PM
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 LAYOUT MM 11/20/07
 DRAWN DAP 12/28/07
 REVIEWED JMM 02/04/08

GIRDER #1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	468+63.04	-12.75'	554.75	554.75
⊕ Brg. W. Abut.	468+67.75	-12.75'	554.75	554.75
a	468+77.75	-12.75'	554.75	554.79
b	468+87.75	-12.75'	554.75	554.83
c	468+97.75	-12.75'	554.75	554.87
d	469+07.75	-12.75'	554.75	554.88
e	469+17.75	-12.75'	554.75	554.88
f	469+27.75	-12.75'	554.75	554.88
g	469+37.75	-12.75'	554.75	554.87
h	469+47.75	-12.75'	554.75	554.84
i	469+57.75	-12.75'	554.75	554.81
j	469+67.75	-12.75'	554.75	554.78
k	469+77.75	-12.75'	554.75	554.77
l	469+87.75	-12.75'	554.75	554.76
⊕ Pier #1	469+97.75	-12.75'	554.75	554.75
m	470+07.75	-12.75'	554.75	554.78
n	470+17.75	-12.75'	554.75	554.82
o	470+27.75	-12.75'	554.75	554.86
p	470+37.75	-12.75'	554.75	554.90
q	470+47.75	-12.75'	554.75	554.93
r	470+57.75	-12.75'	554.75	554.97
s	470+67.75	-12.75'	554.75	555.00
t	470+77.75	-12.75'	554.75	555.03
u	470+87.75	-12.75'	554.75	555.06
v	470+97.75	-12.75'	554.75	555.07
w	471+07.75	-12.75'	554.75	555.00
x	471+17.75	-12.75'	554.75	554.97
y	471+27.75	-12.75'	554.75	554.93
z	471+37.75	-12.75'	554.75	554.90
aa	471+47.75	-12.75'	554.75	554.86
bb	471+57.75	-12.75'	554.75	554.82
cc	471+67.75	-12.75'	554.75	554.78
⊕ Pier #2	471+77.75	-12.75'	554.75	554.75
dd	471+87.75	-12.75'	554.75	554.76
ee	471+97.75	-12.75'	554.75	554.77
ff	472+07.75	-12.75'	554.75	554.78
gg	472+17.75	-12.75'	554.75	554.81
hh	472+27.75	-12.75'	554.75	554.84
ii	472+37.75	-12.75'	554.75	554.87
jj	472+47.75	-12.75'	554.75	554.88
kk	472+57.75	-12.75'	554.75	554.88
ll	472+67.75	-12.75'	554.75	554.88
mm	472+77.75	-12.75'	554.75	554.87
nn	472+87.75	-12.75'	554.75	554.83
oo	472+97.75	-12.75'	554.75	554.79
⊕ Brg. E. Abut.	473+07.75	-12.75'	554.75	554.75
Bk. E. Abut.	473+12.46	-12.75'	554.75	554.75

GIRDER #2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	468+54.54	-4.25'	554.92	554.92
⊕ Brg. W. Abut.	468+59.25	-4.25'	554.92	554.92
a	468+69.25	-4.25'	554.92	554.96
b	468+79.25	-4.25'	554.92	555.00
c	468+89.25	-4.25'	554.92	555.04
d	468+99.25	-4.25'	554.92	555.05
e	469+09.25	-4.25'	554.92	555.05
f	469+19.25	-4.25'	554.92	555.05
g	469+29.25	-4.25'	554.92	555.04
h	469+39.25	-4.25'	554.92	555.01
i	469+49.25	-4.25'	554.92	554.98
j	469+59.25	-4.25'	554.92	554.95
k	469+69.25	-4.25'	554.92	554.94
l	469+79.25	-4.25'	554.92	554.93
⊕ Pier #1	469+89.25	-4.25'	554.92	554.92
m	469+99.25	-4.25'	554.92	554.95
n	470+09.25	-4.25'	554.92	554.99
o	470+19.25	-4.25'	554.92	555.03
p	470+29.25	-4.25'	554.92	555.07
q	470+39.25	-4.25'	554.92	555.10
r	470+49.25	-4.25'	554.92	555.14
s	470+59.25	-4.25'	554.92	555.17
t	470+69.25	-4.25'	554.92	555.20
u	470+79.25	-4.25'	554.92	555.23
v	470+89.25	-4.25'	554.92	555.20
w	470+99.25	-4.25'	554.92	555.17
x	471+09.25	-4.25'	554.92	555.14
y	471+19.25	-4.25'	554.92	555.10
z	471+29.25	-4.25'	554.92	555.07
aa	471+39.25	-4.25'	554.92	555.03
bb	471+49.25	-4.25'	554.92	554.99
cc	471+59.25	-4.25'	554.92	554.95
⊕ Pier #2	471+69.25	-4.25'	554.92	554.92
dd	471+79.25	-4.25'	554.92	554.93
ee	471+89.25	-4.25'	554.92	554.94
ff	471+99.25	-4.25'	554.92	554.95
gg	472+09.25	-4.25'	554.92	554.98
hh	472+19.25	-4.25'	554.92	555.01
ii	472+29.25	-4.25'	554.92	555.04
jj	472+39.25	-4.25'	554.92	555.05
kk	472+49.25	-4.25'	554.92	555.05
ll	472+59.25	-4.25'	554.92	555.05
mm	472+69.25	-4.25'	554.92	555.04
nn	472+79.25	-4.25'	554.92	555.00
oo	472+89.25	-4.25'	554.92	554.96
⊕ Brg. E. Abut.	472+99.25	-4.25'	554.92	554.92
Bk. E. Abut.	473+03.96	-4.25'	554.92	554.92

⊕ ROADWAY AND PROFILE GRADE LINE


Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	468+50.29	0.00'	555.00	555.00
⊕ Brg. W. Abut.	468+55.00	0.00'	555.00	555.00
a	468+65.00	0.00'	555.00	555.04
b	468+75.00	0.00'	555.00	555.08
c	468+85.00	0.00'	555.00	555.13
d	468+95.00	0.00'	555.00	555.14
e	469+05.00	0.00'	555.00	555.14
f	469+15.00	0.00'	555.00	555.14
g	469+25.00	0.00'	555.00	555.12
h	469+35.00	0.00'	555.00	555.09
i	469+45.00	0.00'	555.00	555.06
j	469+55.00	0.00'	555.00	555.04
k	469+65.00	0.00'	555.00	555.02
l	469+75.00	0.00'	555.00	555.01
⊕ Pier #1	469+85.00	0.00'	555.00	555.00
m	469+95.00	0.00'	555.00	555.04
n	470+05.00	0.00'	555.00	555.08
o	470+15.00	0.00'	555.00	555.12
p	470+25.00	0.00'	555.00	555.15
q	470+35.00	0.00'	555.00	555.19
r	470+45.00	0.00'	555.00	555.22
s	470+55.00	0.00'	555.00	555.25
t	470+65.00	0.00'	555.00	555.29
u	470+75.00	0.00'	555.00	555.32
v	470+85.00	0.00'	555.00	555.29
w	470+95.00	0.00'	555.00	555.25
x	471+05.00	0.00'	555.00	555.22
y	471+15.00	0.00'	555.00	555.19
z	471+25.00	0.00'	555.00	555.15
aa	471+35.00	0.00'	555.00	555.12
bb	471+45.00	0.00'	555.00	555.08
cc	471+55.00	0.00'	555.00	555.04
⊕ Pier #2	471+65.00	0.00'	555.00	555.00
dd	471+75.00	0.00'	555.00	555.01
ee	471+85.00	0.00'	555.00	555.02
ff	471+95.00	0.00'	555.00	555.04
gg	472+05.00	0.00'	555.00	555.06
hh	472+15.00	0.00'	555.00	555.09
ii	472+25.00	0.00'	555.00	555.12
jj	472+35.00	0.00'	555.00	555.14
kk	472+45.00	0.00'	555.00	555.14
ll	472+55.00	0.00'	555.00	555.14
mm	472+65.00	0.00'	555.00	555.13
nn	472+75.00	0.00'	555.00	555.08
oo	472+85.00	0.00'	555.00	555.04
⊕ Brg. E. Abut.	472+95.00	0.00'	555.00	555.00
Bk. E. Abut.	472+99.71	0.00'	555.00	555.00

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LAYOUT	MM	11/20/07
DRAWN	DAP	12/28/07
REVIEWED	JMM	02/04/08

TOP OF SLAB ELEVATIONS (SHEET 2)
 F.A.S. 662 (TR 61) OVER EMBARRAS RIVER
 CUMBERLAND COUNTY
 SECTION 01-00061-00-BR
 STA. 470+75.00
 STRUCTURE NUMBER 018-3191
 PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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02/04/08

GIRDER #3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	468+46.04	4.25'	554.92	554.92
⊕ Brg. W. Abut.	468+50.75	4.25'	554.92	554.92
a	468+60.75	4.25'	554.92	554.96
b	468+70.75	4.25'	554.92	555.00
c	468+80.75	4.25'	554.92	555.04
d	468+90.75	4.25'	554.92	555.05
e	469+00.75	4.25'	554.92	555.05
f	469+10.75	4.25'	554.92	555.05
g	469+20.75	4.25'	554.92	555.04
h	469+30.75	4.25'	554.92	555.01
i	469+40.75	4.25'	554.92	554.98
j	469+50.75	4.25'	554.92	554.95
k	469+60.75	4.25'	554.92	554.94
l	469+70.75	4.25'	554.92	554.93
⊕ Pier #1	469+80.75	4.25'	554.92	554.92
m	469+90.75	4.25'	554.92	554.95
n	470+00.75	4.25'	554.92	554.99
o	470+10.75	4.25'	554.92	555.03
p	470+20.75	4.25'	554.92	555.07
q	470+30.75	4.25'	554.92	555.10
r	470+40.75	4.25'	554.92	555.14
s	470+50.75	4.25'	554.92	555.17
t	470+60.75	4.25'	554.92	555.20
u	470+70.75	4.25'	554.92	555.23
v	470+80.75	4.25'	554.92	555.20
w	470+90.75	4.25'	554.92	555.17
x	471+00.75	4.25'	554.92	555.14
y	471+10.75	4.25'	554.92	555.10
z	471+20.75	4.25'	554.92	555.07
aa	471+30.75	4.25'	554.92	555.03
bb	471+40.75	4.25'	554.92	554.99
cc	471+50.75	4.25'	554.92	554.95
⊕ Pier #2	471+60.75	4.25'	554.92	554.92
dd	471+70.75	4.25'	554.92	554.93
ee	471+80.75	4.25'	554.92	554.94
ff	471+90.75	4.25'	554.92	554.95
gg	472+00.75	4.25'	554.92	554.98
hh	472+10.75	4.25'	554.92	555.01
ii	472+20.75	4.25'	554.92	555.04
jj	472+30.75	4.25'	554.92	555.05
kk	472+40.75	4.25'	554.92	555.05
ll	472+50.75	4.25'	554.92	555.05
mm	472+60.75	4.25'	554.92	555.04
nn	472+70.75	4.25'	554.92	555.00
oo	472+80.75	4.25'	554.92	554.96
⊕ Brg. E. Abut.	472+90.75	4.25'	554.92	554.92
Bk. E. Abut.	472+95.46	4.25'	554.92	554.92

GIRDER #4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	468+37.54	12.75'	554.75	554.75
⊕ Brg. W. Abut.	468+42.25	12.75'	554.75	554.75
a	468+52.25	12.75'	554.75	554.79
b	468+62.25	12.75'	554.75	554.83
c	468+72.25	12.75'	554.75	554.87
d	468+82.25	12.75'	554.75	554.88
e	468+92.25	12.75'	554.75	554.88
f	469+02.25	12.75'	554.75	554.88
g	469+12.25	12.75'	554.75	554.87
h	469+22.25	12.75'	554.75	554.84
i	469+32.25	12.75'	554.75	554.81
j	469+42.25	12.75'	554.75	554.78
k	469+52.25	12.75'	554.75	554.77
l	469+62.25	12.75'	554.75	554.76
⊕ Pier #1	469+72.25	12.75'	554.75	554.75
m	469+82.25	12.75'	554.75	554.78
n	469+92.25	12.75'	554.75	554.82
o	470+02.25	12.75'	554.75	554.86
p	470+12.25	12.75'	554.75	554.90
q	470+22.25	12.75'	554.75	554.93
r	470+32.25	12.75'	554.75	554.97
s	470+42.25	12.75'	554.75	555.00
t	470+52.25	12.75'	554.75	555.03
u	470+62.25	12.75'	554.75	555.06
v	470+72.25	12.75'	554.75	555.03
w	470+82.25	12.75'	554.75	555.00
x	470+92.25	12.75'	554.75	554.97
y	471+02.25	12.75'	554.75	554.93
z	471+12.25	12.75'	554.75	554.90
aa	471+22.25	12.75'	554.75	554.86
bb	471+32.25	12.75'	554.75	554.82
cc	471+42.25	12.75'	554.75	554.78
⊕ Pier #2	471+52.25	12.75'	554.75	554.75
dd	471+62.25	12.75'	554.75	554.76
ee	471+72.25	12.75'	554.75	554.77
ff	471+82.25	12.75'	554.75	554.78
gg	471+92.25	12.75'	554.75	554.81
hh	472+02.25	12.75'	554.75	554.84
ii	472+12.25	12.75'	554.75	554.87
jj	472+22.25	12.75'	554.75	554.88
kk	472+32.25	12.75'	554.75	554.88
ll	472+42.25	12.75'	554.75	554.88
mm	472+52.25	12.75'	554.75	554.87
nn	472+62.25	12.75'	554.75	554.83
oo	472+72.25	12.75'	554.75	554.79
⊕ Brg. E. Abut.	472+82.25	12.75'	554.75	554.75
Bk. E. Abut.	472+86.96	12.75'	554.75	554.75

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 LAYOUT 11/30/07
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TOP OF SLAB ELEVATIONS (SHEET 3)
 F.A.S. 662 (TR 6J) OVER EMBARRAS RIVER
 CUMBERLAND COUNTY
 SECTION 01-00061-00-BR
 STA. 470+75.00
 STRUCTURE NUMBER 018-3191
 PROFESSIONAL DESIGN FIRM LICENSE #184-001004

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02/04/08

Hanson Professional Services Inc.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 662 (TR 61)	*	CUMBERLAND	85	36
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 6
26 SHEETS

*Section 01-00061-00-BR Contract #95552

NORTH SHOULDER LINE

Location	Station	Offset	Theoretical Grade Elevations
West End W. Appr. Pav't.	468+36.00	-15.00'	554.70
A	468+46.00	-15.00'	554.70
B	468+56.00	-15.00'	554.70
Bk. W. Abut.	468+65.29	-15.00'	554.70
East End W. Appr. Pav't.	468+66.00	-15.00'	554.70

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
West End W. Appr. Pav't.	468+33.00	-12.00'	554.76
A	468+43.00	-12.00'	554.76
B	468+53.00	-12.00'	554.76
Bk. W. Abut.	468+62.29	-12.00'	554.76
East End W. Appr. Pav't.	468+63.00	-12.00'	554.76

ROADWAY & PROFILE GRADE LINE

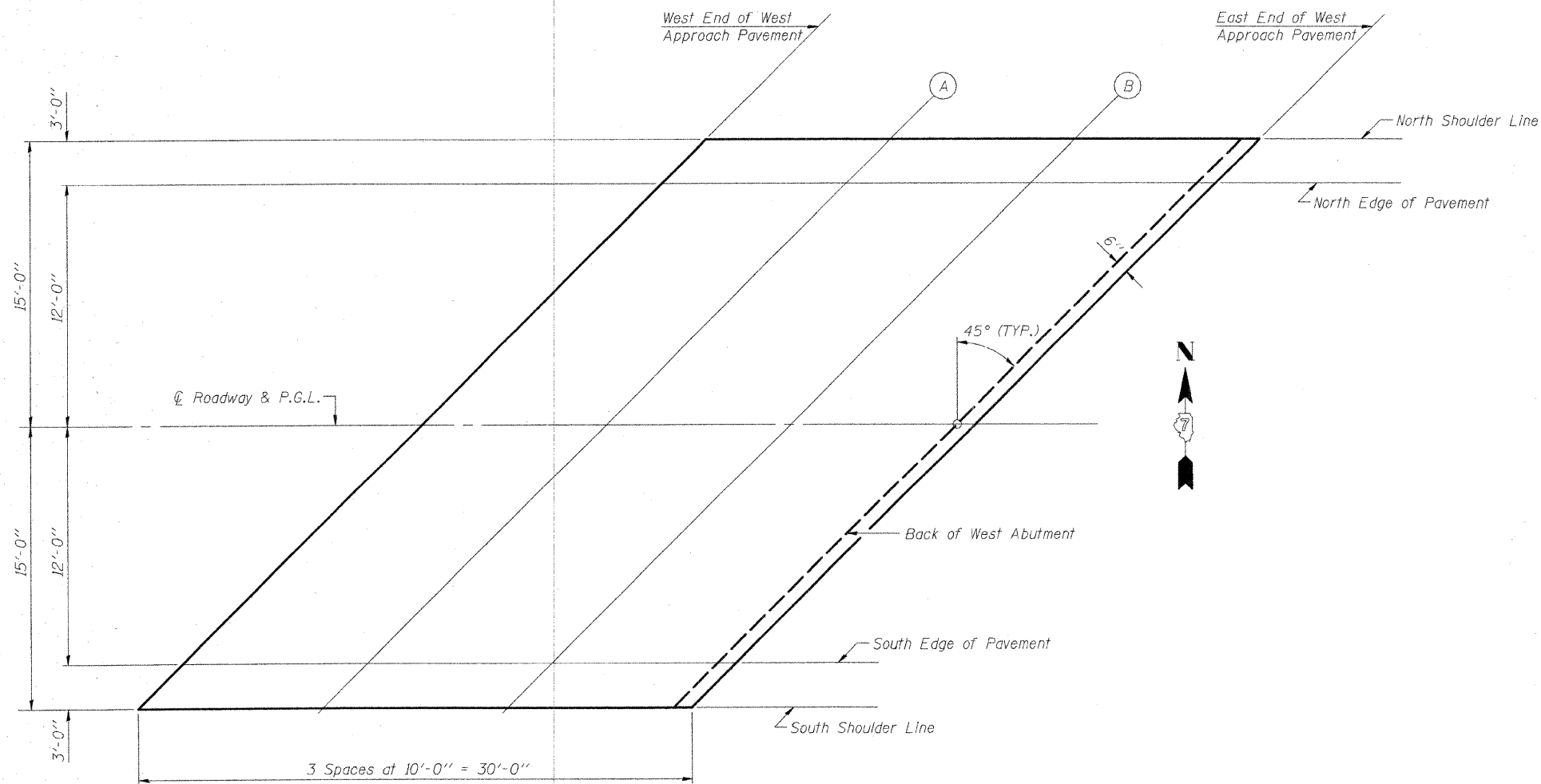
Location	Station	Offset	Theoretical Grade Elevations
West End W. Appr. Pav't.	468+21.00	0.00'	555.00
A	468+31.00	0.00'	555.00
B	468+41.00	0.00'	555.00
Bk. W. Abut.	468+50.29	0.00'	555.00
East End W. Appr. Pav't.	468+51.00	0.00'	555.00

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
West End W. Appr. Pav't.	468+09.00	12.00'	554.76
A	468+19.00	12.00'	554.76
B	468+29.00	12.00'	554.76
Bk. W. Abut.	468+38.29	12.00'	554.76
East End W. Appr. Pav't.	468+39.00	12.00'	554.76

SOUTH SHOULDER LINE

Location	Station	Offset	Theoretical Grade Elevations
West End W. Appr. Pav't.	468+06.00	15.00'	554.70
A	468+16.00	15.00'	554.70
B	468+26.00	15.00'	554.70
Bk. W. Abut.	468+35.29	15.00'	554.70
East End W. Appr. Pav't.	468+36.00	15.00'	554.70



PLAN

TOP OF WEST APPROACH SLAB ELEVATIONS
 F.A.S. 662 (TR 61) OVER EMBARRAS RIVER
 CUMBERLAND COUNTY
 SECTION 01-00061-00-BR
 STA. 470+75.00
 STRUCTURE NUMBER 018-3191
 PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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 DRAWN: DAP 12/28/07
 REVIEWED: JMM 02/04/08

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 662 (TR 6D)	*	CUMBERLAND	85	37
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 7
26 SHEETS

*Section 01-00061-00-BR Contract #95552

NORTH SHOULDER LINE

Location	Station	Offset	Theoretical Grade Elevations
West End E. Appr. Pav't.	473+14.00	-15.00'	554.70
Bk. E. Abut.	473+14.71	-15.00'	554.70
A	473+24.00	-15.00'	554.70
B	473+34.00	-15.00'	554.70
East End E. Appr. Pav't.	473+44.00	-15.00'	554.70

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
West End E. Appr. Pav't.	473+11.00	-12.00'	554.76
Bk. E. Abut.	473+11.71	-12.00'	554.76
A	473+21.00	-12.00'	554.76
B	473+31.00	-12.00'	554.76
East End E. Appr. Pav't.	473+41.00	-12.00'	554.76

ROADWAY & PROFILE GRADE LINE

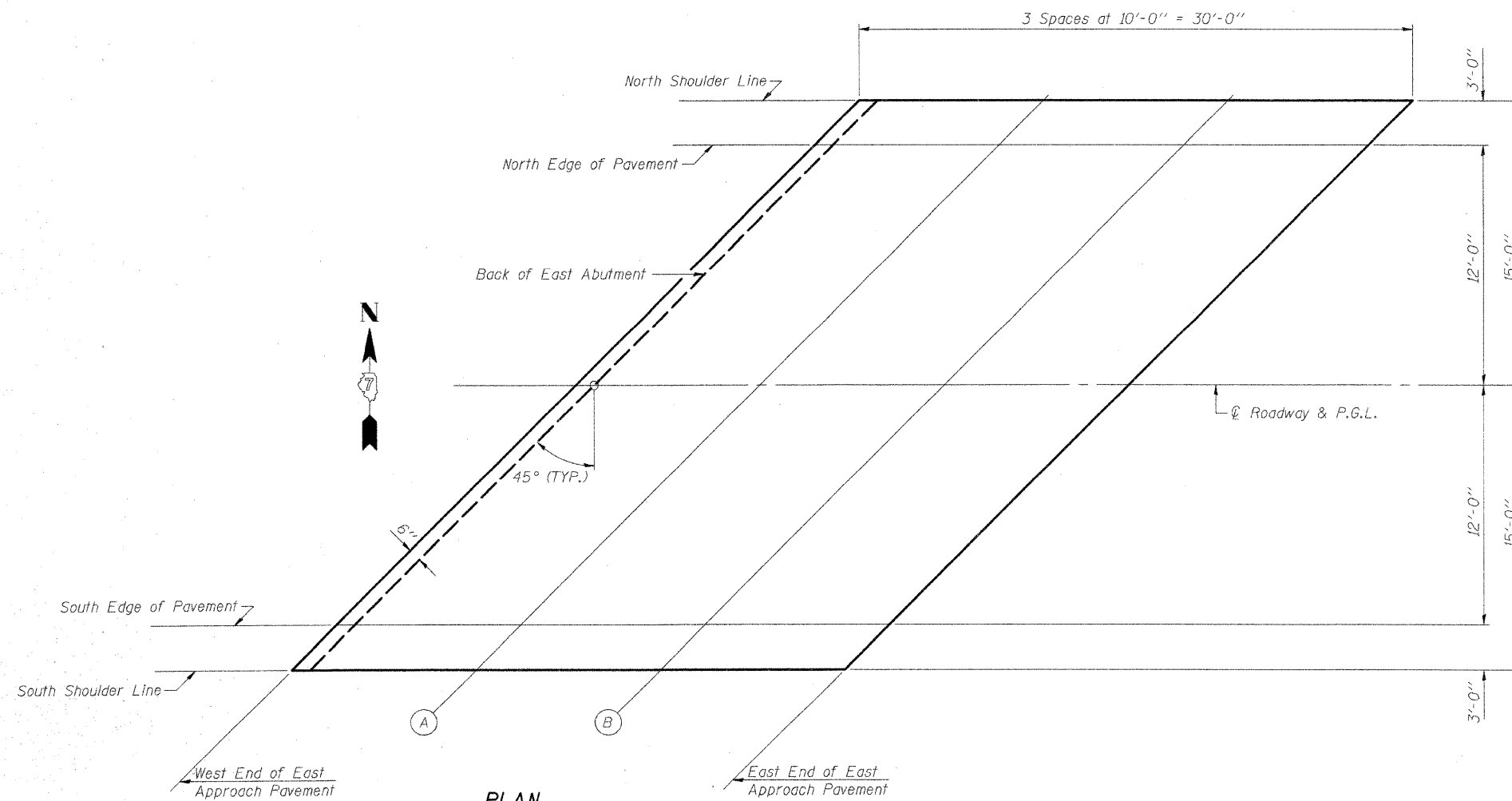
Location	Station	Offset	Theoretical Grade Elevations
West End E. Appr. Pav't.	472+99.00	0.00'	555.00
Bk. E. Abut.	472+99.71	0.00'	555.00
A	473+09.00	0.00'	555.00
B	473+19.00	0.00'	555.00
East End E. Appr. Pav't.	473+29.00	0.00'	555.00

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
West End E. Appr. Pav't.	472+87.00	12.00'	554.76
Bk. E. Abut.	472+87.71	12.00'	554.76
A	472+97.00	12.00'	554.76
B	473+07.00	12.00'	554.76
East End E. Appr. Pav't.	473+17.00	12.00'	554.76

SOUTH SHOULDER LINE

Location	Station	Offset	Theoretical Grade Elevations
West End E. Appr. Pav't.	472+84.00	15.00'	554.70
Bk. E. Abut.	472+84.71	15.00'	554.70
A	472+94.00	15.00'	554.70
B	473+04.00	15.00'	554.70
East End E. Appr. Pav't.	473+14.00	15.00'	554.70



PLAN

TOP OF EAST APPROACH SLAB ELEVATIONS
 F.A.S. 662 (TR 6D) OVER EMBARRAS RIVER
 CUMBERLAND COUNTY
 SECTION 01-00061-00-BR
 STA. 470+75.00
 STRUCTURE NUMBER 018-3191
 PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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02/04/08

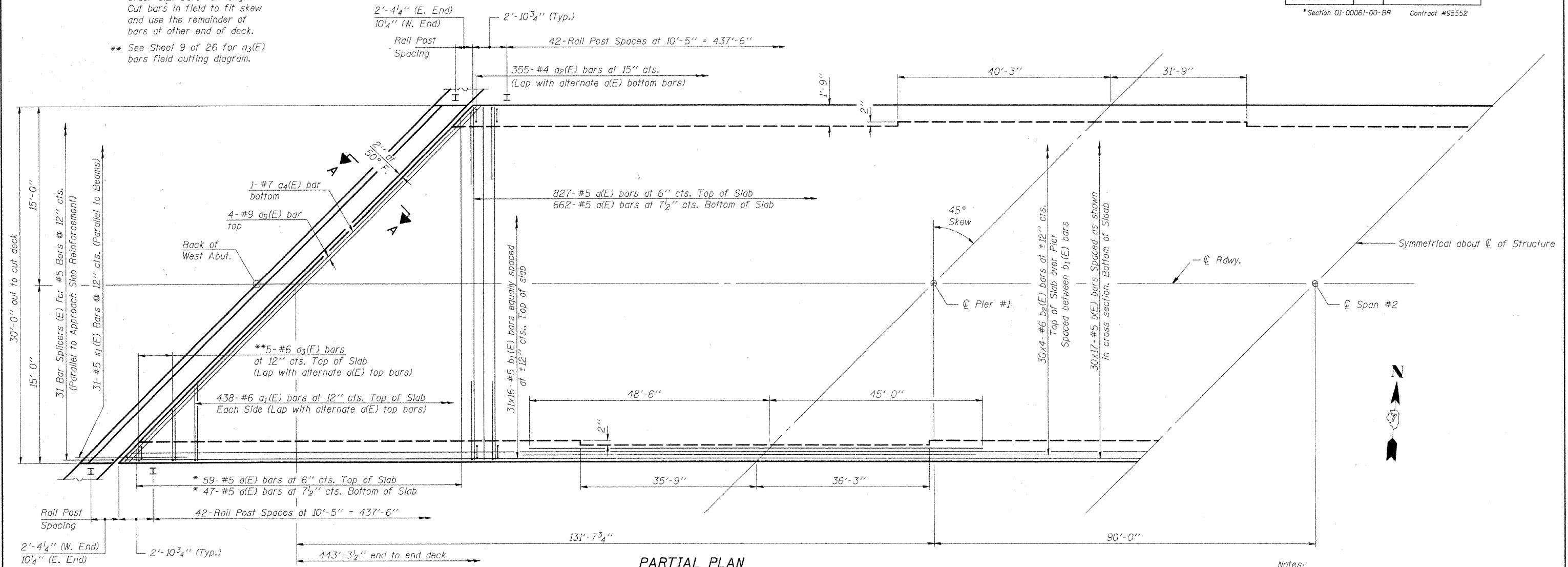
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LAYOUT	MM	11/20/07
DRAWN	DAF	12/28/07
REVIEWED	JMM	02/04/08

* Section 01-00061-00-BR Contract #95552

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

** See Sheet 9 of 26 for a₃(E) bars field cutting diagram.

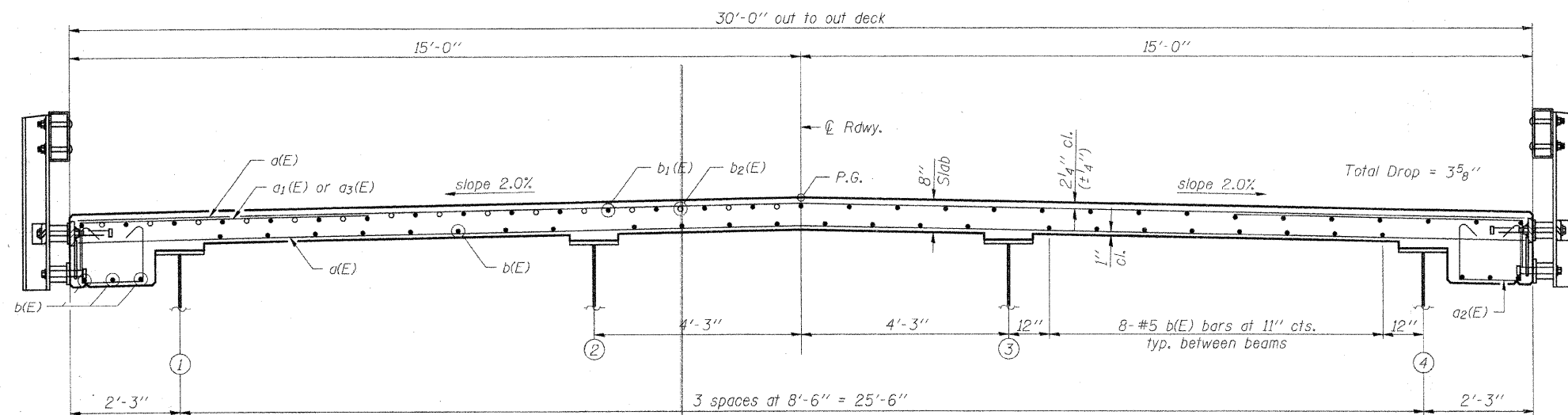


PARTIAL PLAN

Notes:
 See Sheet 09 of 26 for superstructure details, Bill of Material & Section A-A.
 Bars indicated thus 24x17-#5 etc. indicates 24 lines of bars with 17 lengths per line.
 Dimensions are based on a Rolled Rail Strip Seal Joint. If the Contractor elects to use the Welded Rail Strip Seal Joint, deck dimensions may require adjustments to satisfy the details on Base Sheet EJ-SSJ.

MIN. BAR LAPS

- #5 Bar - 2'-2"
- #6 Bar - 2'-7"



CROSS SECTION
(Looking East)

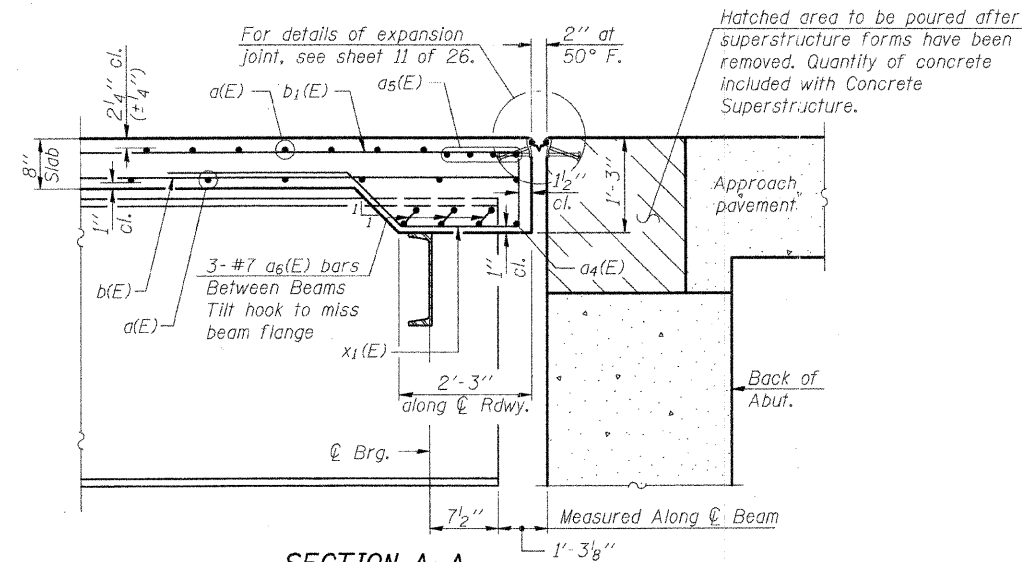
NEAR PIER

NEAR MIDSPAN

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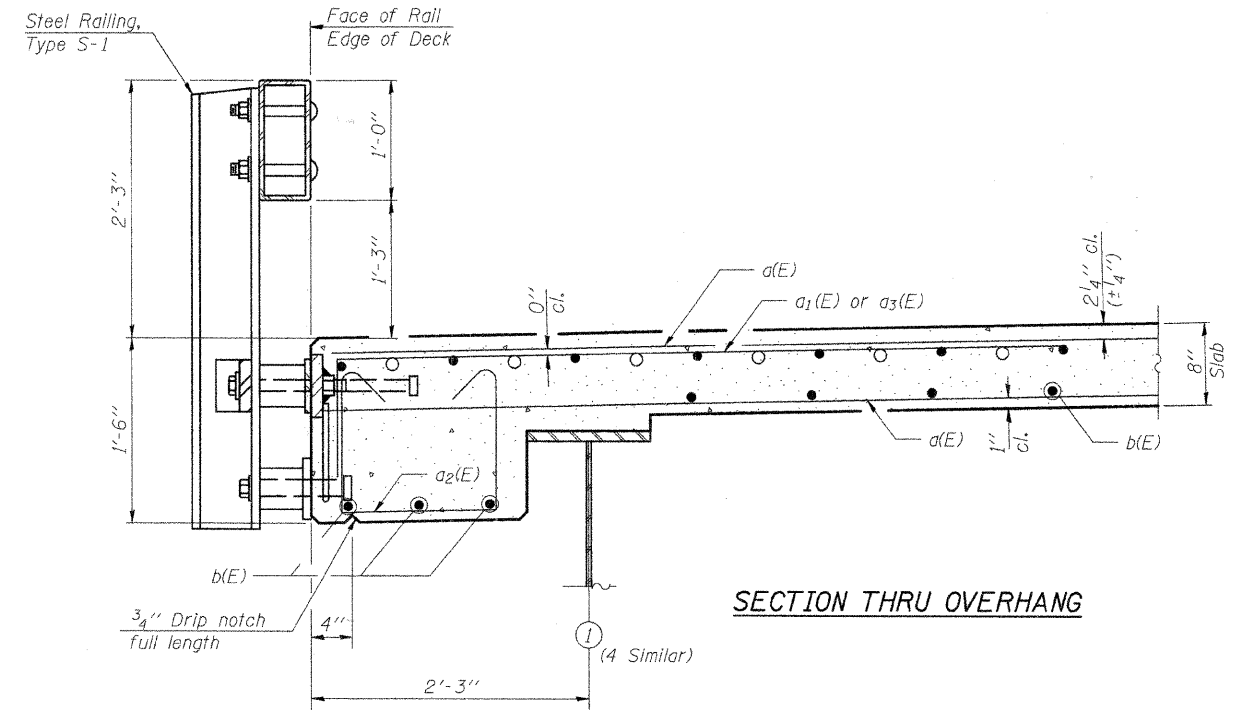
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REVIEWED	MM	02/04/08

SUPERSTRUCTURE F.A.S. 662 (TR 6D) OVER EMBARRAS RIVER CUMBERLAND COUNTY SECTION 01-00061-00-BR STA. 470+75.00 STRUCTURE NUMBER 018-3191 PROFESSIONAL DESIGN FIRM LICENSE #184-001084	
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JOB NO. 0152021B	DATE 02/04/08

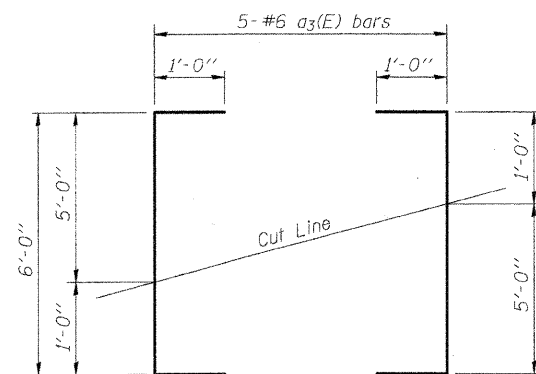


SECTION A-A

(Dimension at Rt. 1's to back of abutment unless otherwise noted)

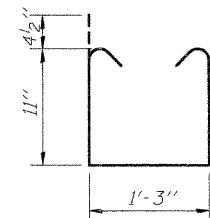


SECTION THRU OVERHANG

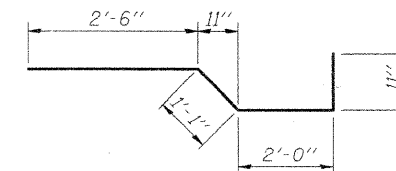


FIELD CUTTING DIAGRAM

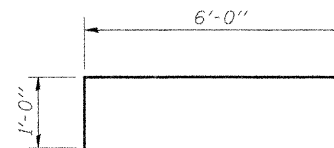
Order a3(E) full length. Cut as shown and use remainder of bars at opposite end of deck.



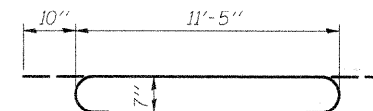
BAR a2(E)



BAR x1(E)



BAR a1(E)



a6(E) BAR

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1(E)	1595	#5	29'-8"	—
a1(E)	876	#6	7'-0"	┌
a2(E)	710	#4	3'-10"	┐
a3(E)	5	#6	8'-0"	┌
a4(E)	2	#7	42'-0"	—
a5(E)	8	#9	42'-0"	—
a6(E)	18	#7	13'-1"	┌
b(E)	510	#5	28'-3"	—
b1(E)	496	#5	29'-9"	—
b2(E)	240	#6	25'-6"	—
x1(E)	62	#5	6'-6"	┌
Reinforcement Bars, Epoxy Coated			Pound	102270
Concrete Superstructure			Cu. Yd.	389.6

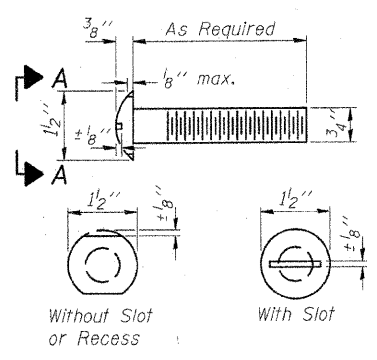
SUPERSTRUCTURE DETAILS
 F.A.S. 662 (TR 61) OVER EMBARRAS RIVER
 CUMBERLAND COUNTY
 SECTION 01-00061-00-BR
 STA. 470+75.00
 STRUCTURE NUMBER 018-3191
 PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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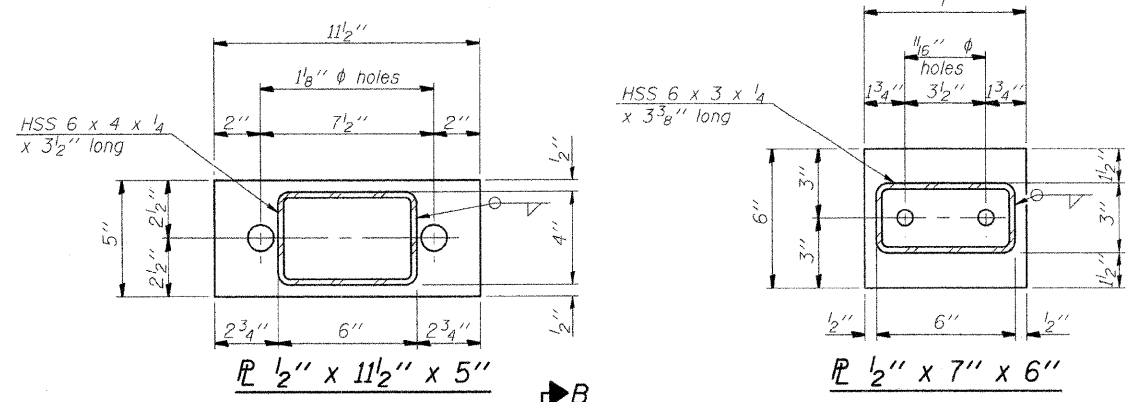
Hanson Professional Services Inc.

JOB NO. 01S2021B
 DATE 02/04/08

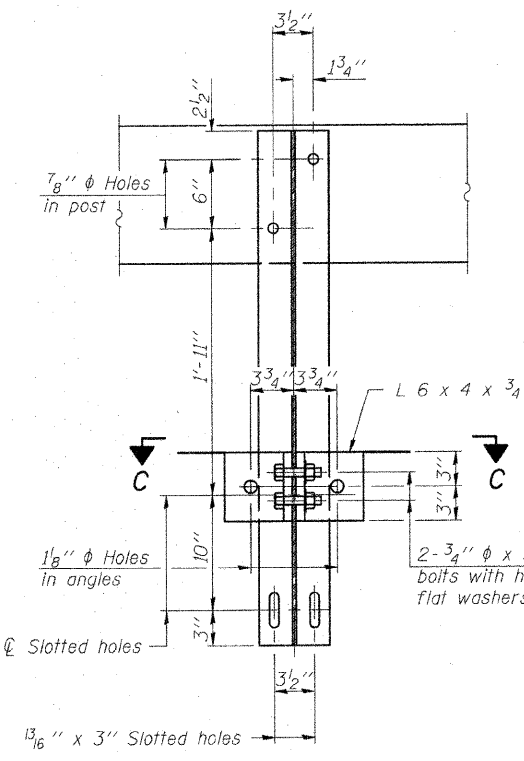
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 LAYOUT 11/30/07
 DRAWN DAP 12/28/07
 REVIEWED JMM 02/04/08



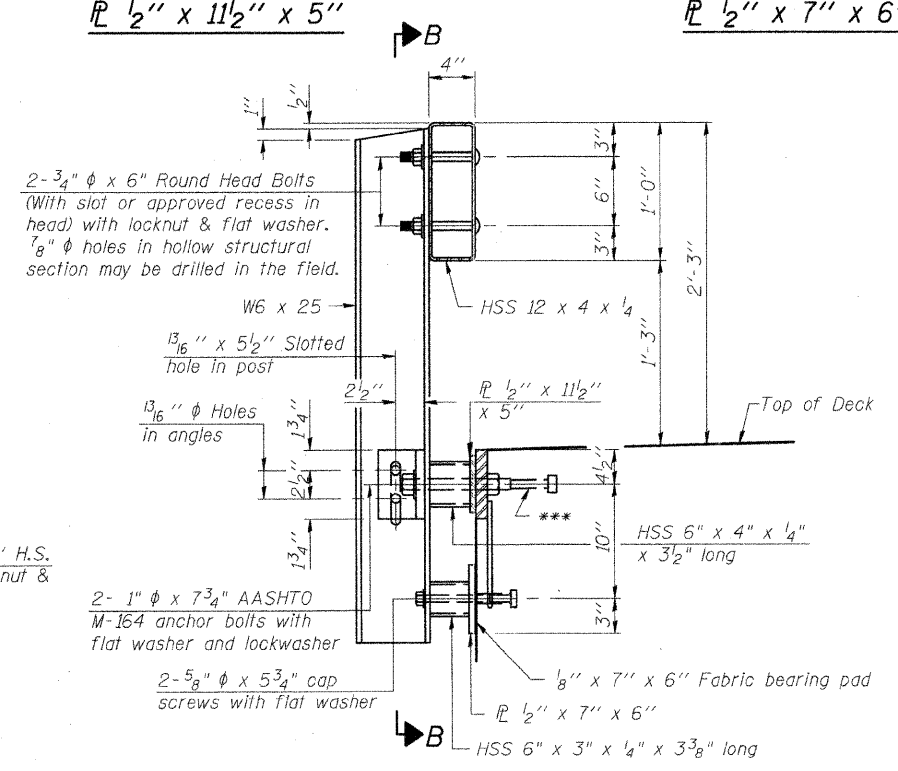
**VIEW A-A
ROUND HEAD BOLT**



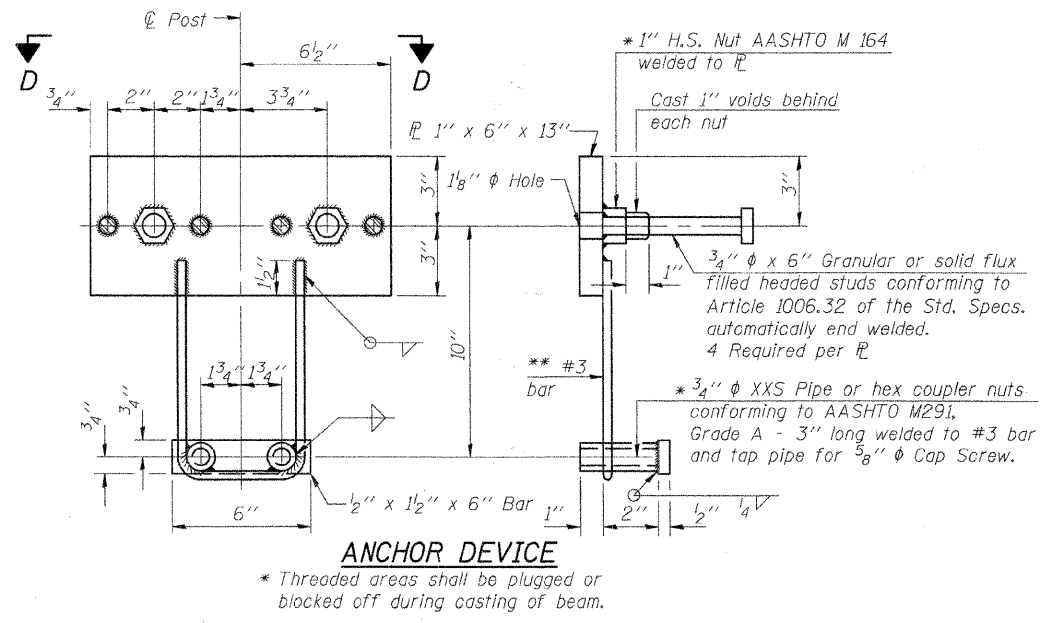
For Rail Post Spacing. See Partial Plan Sheet B of 26.



SECTION B-B

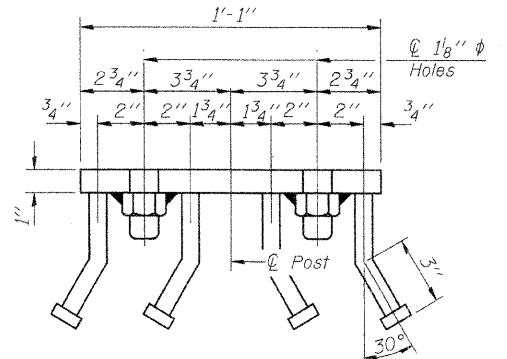


SECTION AT RAILING POST

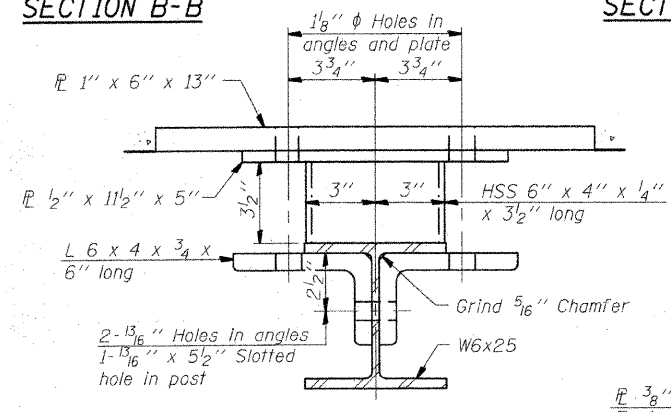


ANCHOR DEVICE

Notes:
 All field drilled holes shall be coated with an approved zinc rich paint before erection.
 For multi-span bridges, sufficient 1/4 inch x 6 inch x 1-2 inch galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S-1.
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
 *** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

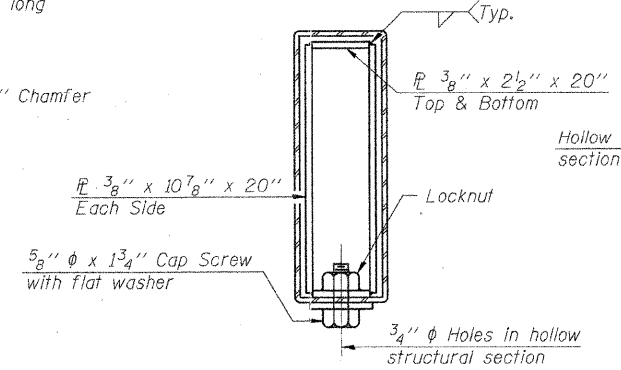


VIEW D-D

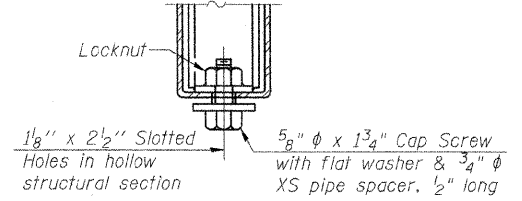


SECTION C-C

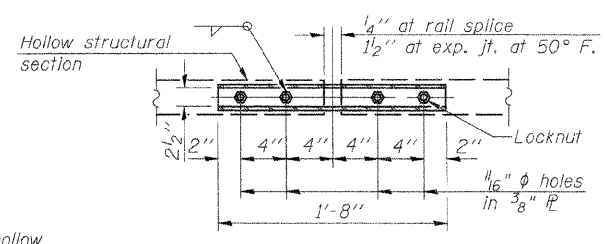
** Whenever the lower insert assemblies interfere with reinforcement locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2 inch.



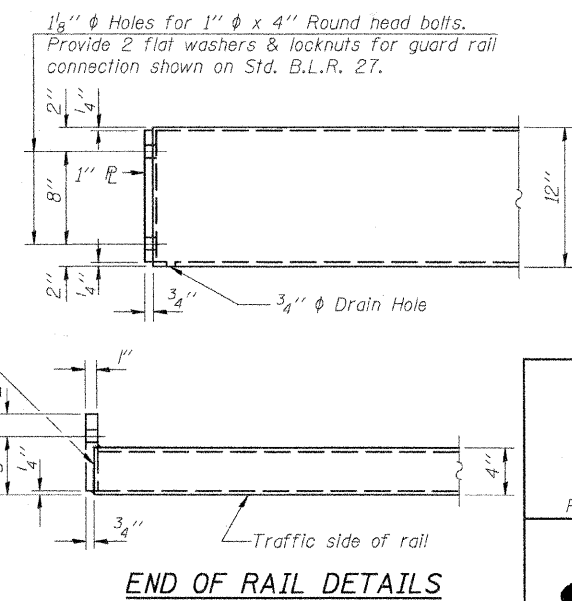
SECTIONS AT RAIL SPLICE



RAIL SPLICE CONNECTION AT EXPANSION JT.



PLAN-BOTT. SPLICE TYPICAL



END OF RAIL DETAILS

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	896

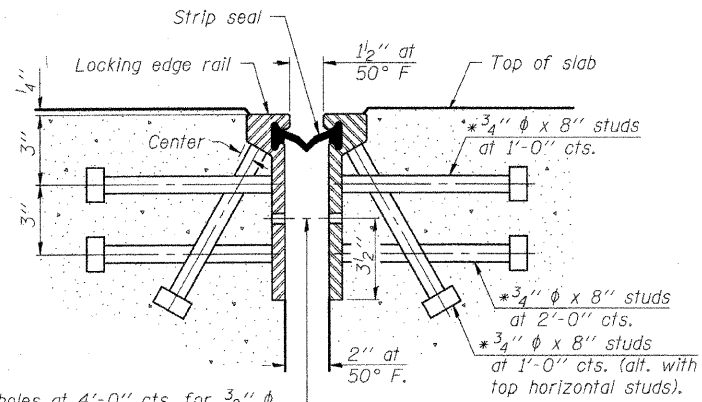
STEEL RAILING, TYPE S-1
 F.A.S. 662 (TR 61) OVER EMBARRAS RIVER
 CUMBERLAND COUNTY
 SECTION 01-00061-00-BR
 STA. 470+75.00
 STRUCTURE NUMBER 018-3191
 PROFESSIONAL DESIGN FIRM LICENSE #184-001084
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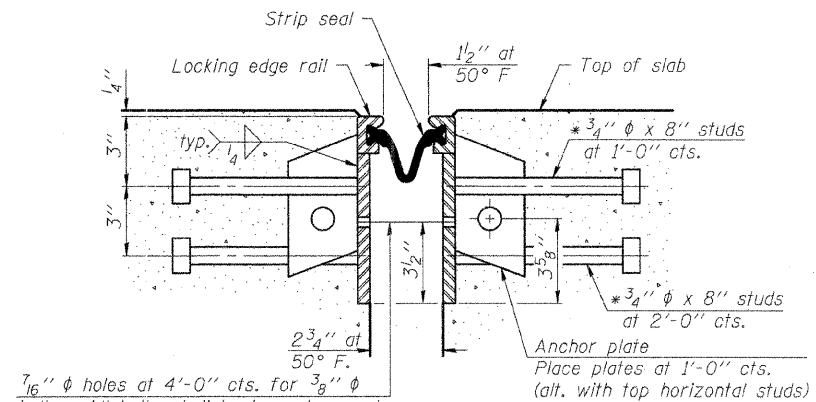
JOB NO. 01S2021B
 DATE 02/04/08

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 LAYOUT 11/20/07
 DRAWN DAP 12/28/07
 REVIEWED JMM 02/04/08

*Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

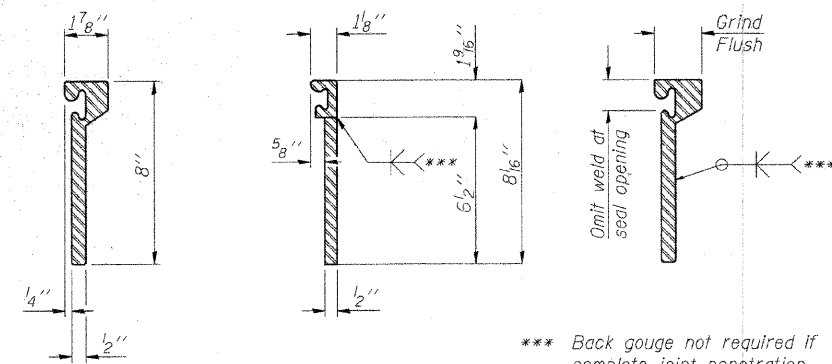


**SECTION THRU
ROLLED RAIL JOINT**



**SECTION THRU
WELDED RAIL JOINT**

Notes:
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches. The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints. The manufacturer's recommended installation methods shall be followed. The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State. All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

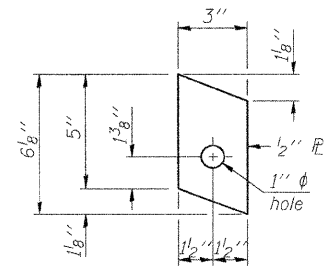


ROLLED (EXTRUDED) RAIL WELDED RAIL

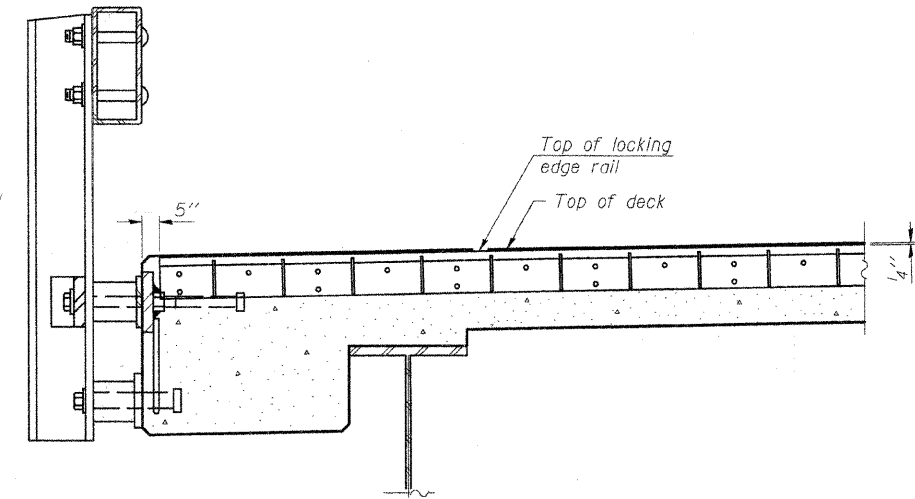
LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.

LOCKING EDGE RAILS



ANCHOR PLATE
(for welded rail)



TYPICAL END TREATMENT AT OVERHANG

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	83.5

PREFORMED JOINT STRIP SEAL
F.A.S. 662 (TR 61) OVER EMBARRAS RIVER
CUMBERLAND COUNTY
SECTION 01-00061-00-BR
STA. 470+75.00
STRUCTURE NUMBER 018-3191
PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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DATE
02/04/08

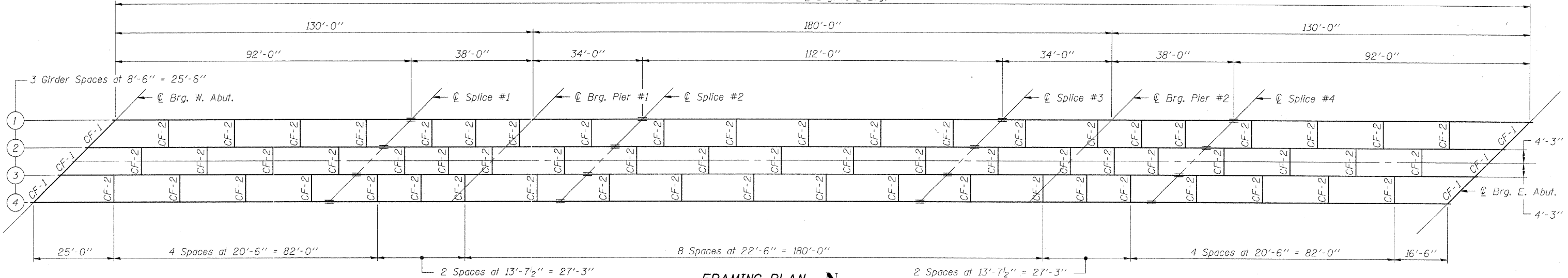
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DRAWN	DAP	12/28/07
REVIEWED	JMM	02/04/08

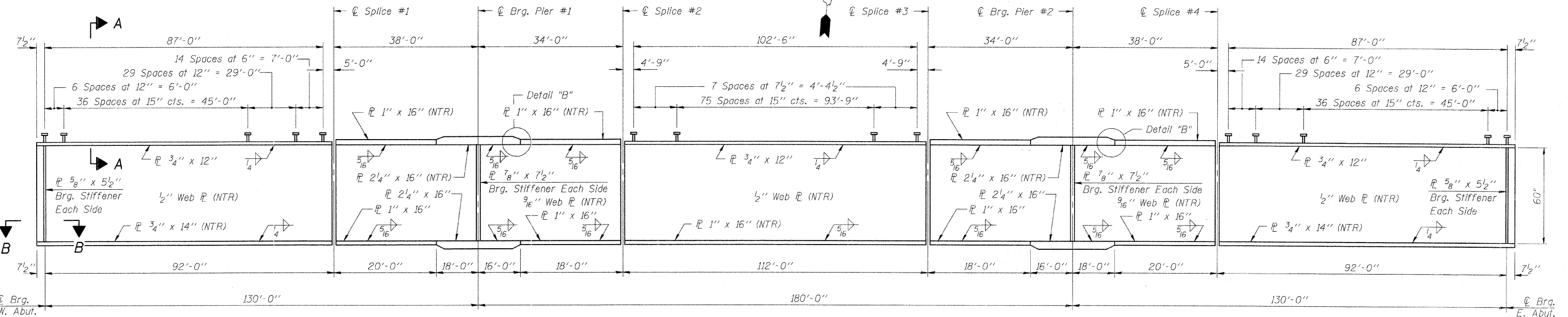
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 12 26 SHEETS
FAS 662 (TR 6J)	*	CUMBERLAND	85	42	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

*Section 01-00061-00-BR Contract #95552

440'-0" ϕ Brg. to ϕ Brg.

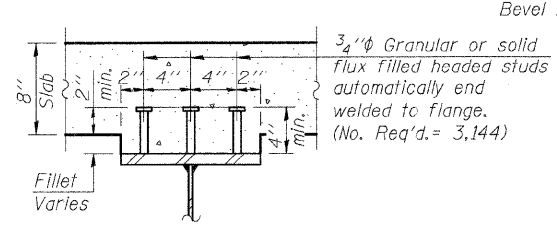


FRAMING PLAN

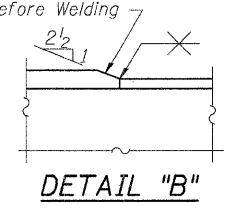


GIRDER ELEVATION

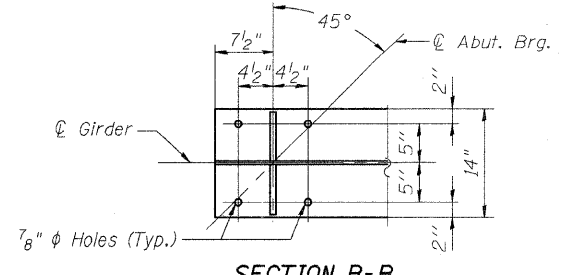
Note:
 All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
 For cross frame details and splice plate details see sheet 13 of 26.
 Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.



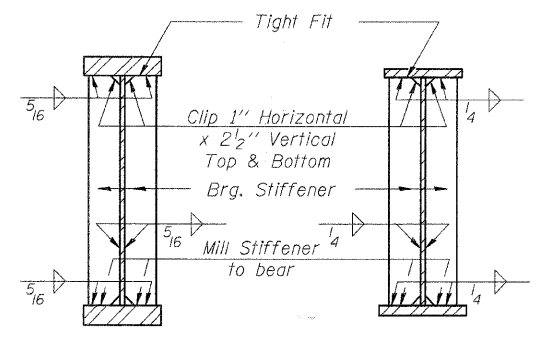
SECTION A-A



DETAIL "B"



SECTION B-B
(Typ. Each End)



SECTION AT PIER

SECTION AT ABUTMENT

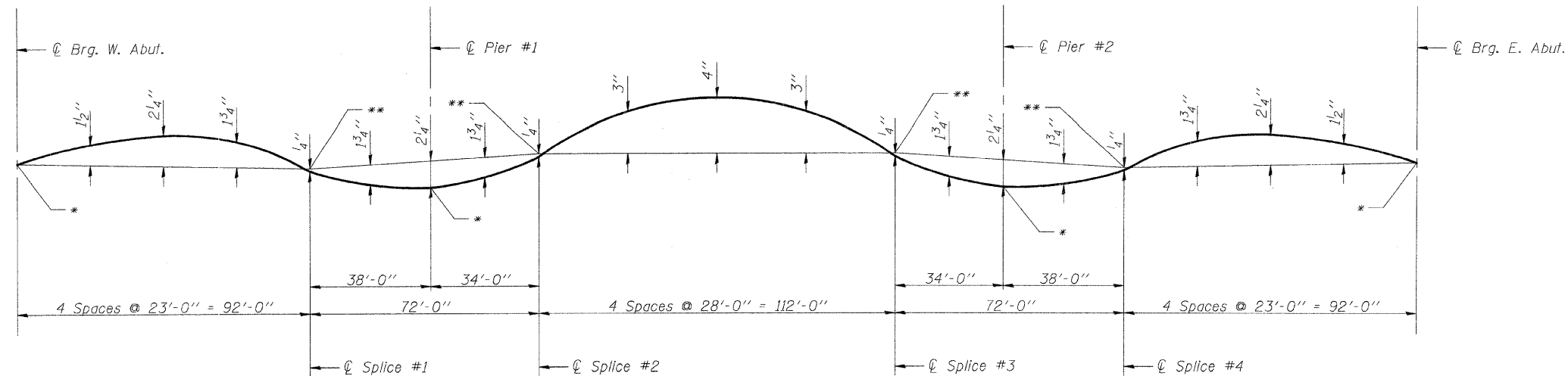
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 DRAWN: DAF 12/28/07
 REVIEWED: JHM 02/04/08

STRUCTURAL STEEL
 F.A.S. 662 (TR 6J) OVER EMBARRAS RIVER
 CUMBERLAND COUNTY
 SECTION 01-00061-00-BR
 STA. 470+75.00
 STRUCTURE NUMBER 018-3191
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01S2021B
DATE
05/30/08



CAMBER DIAGRAM

* See Table for Final Top of Web Elevations at abutments and piers.
 ** Theoretical Top of Web Elevations before dead load deflection.

***TOP OF WEB ELEVATIONS

	Girder #1	Girder #2	Girder #3	Girder #4
⊙ Brg. W. Abut.	553.953	554.123	554.123	553.953
⊙ Splice #1	553.920	554.090	554.090	553.920
⊙ Pier #1	553.800	553.970	553.970	553.800
⊙ Splice #2	554.009	554.179	554.179	554.009
⊙ Pier #2	553.800	553.970	553.970	553.800
⊙ Splice #3	553.920	554.090	554.090	553.920
⊙ Brg. E. Abut.	553.953	554.123	554.123	553.953

*** For Fabrication Only

INTERIOR GIRDER MOMENT TABLE

	0.4 Sp. 1 or 0.6 Sp. 3	0.5 Sp. 2	Pier 1 & 2
I_s	26951	31352	79907
$I_c(n)$	67266	81773	-
$I_c(3n)$	50087	59514	-
S_s	904	1157	2478
$S_c(n)$	1284	1616	-
$S_c(3n)$	1169	1478	-
ρ	1.11	1.14	1.56
$M \rho$	941	1321	4370
$s \rho$	0.42	0.42	-
$M_s \rho$	412	607	-
$M \ell$	1306	1598	1714
M_{imp}	256	288	308
$\rho_3 [M \ell + M_{imp}]$	2603	3142	3370
M_a	5143	6592	10062
M_u	5453	6995	-
$f_s \rho$ non-comp	12.50	13.70	21.16
$f_s \rho$ (comp)	4.23	4.93	-
$f_s \rho_3 [M \ell + M_{imp}]$	24.33	23.33	16.32
f_s (Overload)	41.07	41.97	37.49
f_s (Total)	-	-	48.73
VR	74	71	-

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

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

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

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

$M \rho$: Un-factored moment due to non-composite dead load (kip-ft.).

$s \rho$: Un-factored long-term composite (superimposed) dead load (kips/ft.).

$M_s \rho$: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).

$M \ell$: Un-factored live load moment (kip-ft.).

M_{imp} : Un-factored moment due to impact (kip-ft.).

M_a : Factored design moment (kip-ft.).
 $1.3 [M \rho + M_s \rho + \frac{5}{3} (M \ell + M_{imp})]$

M_u : Compact composite moment capacity according to AASHTO LFD 10.50.1.1 or compact non-composite moment capacity according to AASHTO LFD 10.48.1 (kip-ft.).

f_s (Overload): Sum of stresses as computed from the moments below (ksi).
 $M \rho + M_s \rho + \frac{5}{3} (M \ell + M_{imp})$

f_s (Total): Sum of stresses as computed from the moments below on non-compact section (ksi).
 $1.3 [M \rho + M_s \rho + \frac{5}{3} (M \ell + M_{imp})]$

VR: Maximum ℓ + impact horizontal shear range within the composite portion of the span for stud shear connector design (kips).

INTERIOR GIRDER REACTION TABLE

	Abutments	Piers
$R \rho$	65.8	273.0
$R \ell$	55.2	110.6
Imp.	10.8	19.9
R_{Total}	131.8	403.5

**** Compact section
 ***** Braced non-compact and partially braced section

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 LAYOUT 11/20/07
 DRAWN DAP 12/28/07
 REVIEWED JHM 02/04/08

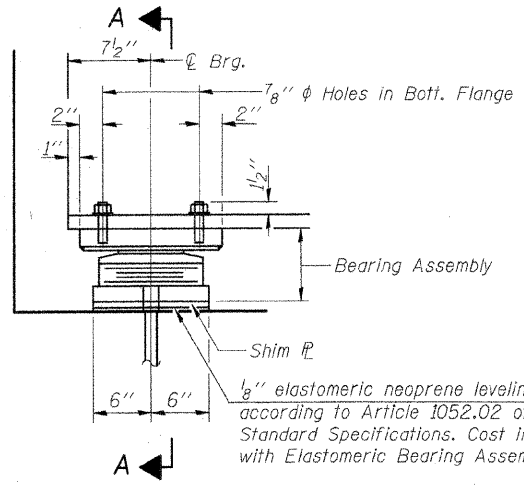
STRUCTURAL STEEL DETAILS (SHEET 2)
 F.A.S. 662 (TR 61) OVER EMBARRAS RIVER
 CUMBERLAND COUNTY
 SECTION 01-00061-00-BR
 STA. 470+75.00
 STRUCTURE NUMBER 018-3191
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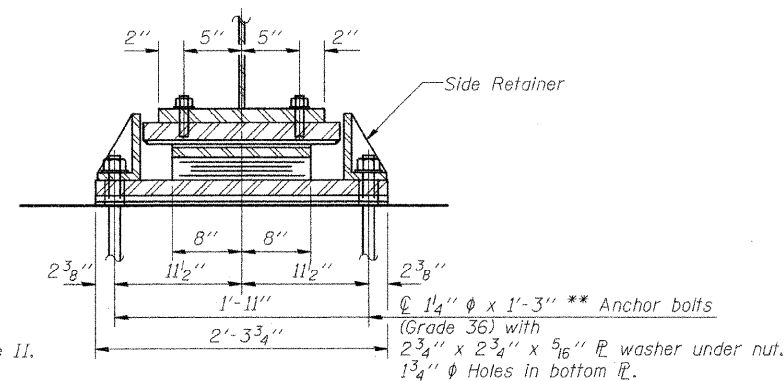
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JOB NO.
01S2021B
DATE
05/30/08

** Lengths show are the required total lengths for cast-in-place headed anchor bolts. The required total length for the sealed capsule alternative anchor bolt shall be according to the manufacturer's recommendations.

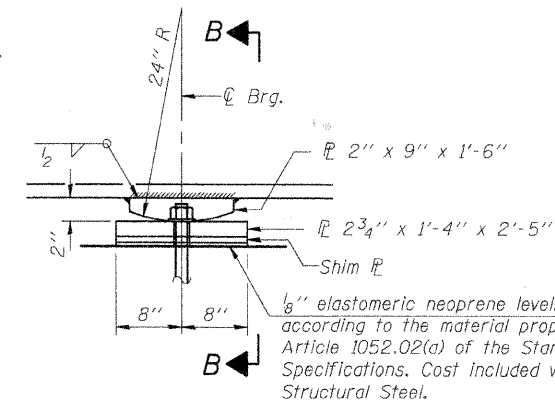


ELEVATION AT ABUT.

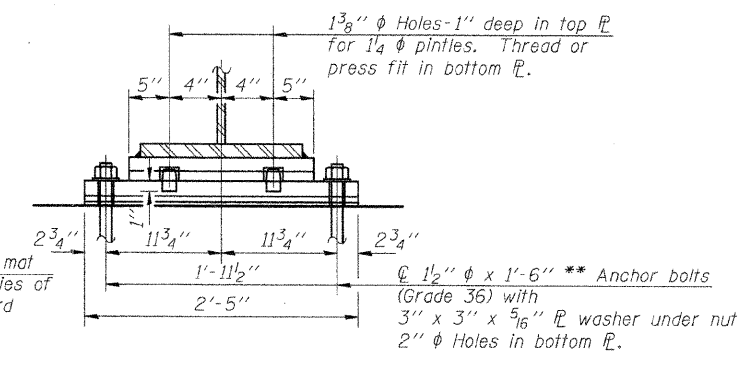


SECTION A-A

TYPE II ELASTOMERIC EXP. BRG.

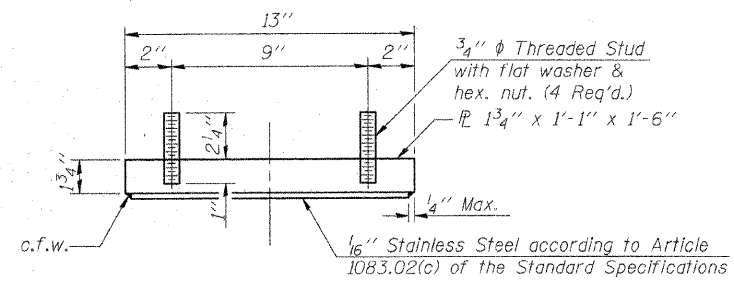


ELEVATION AT PIER

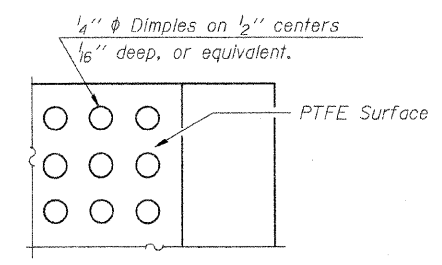


SECTION B-B

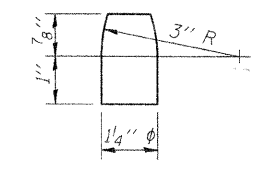
FIXED BEARING



TOP BEARING ASSEMBLY



PLAN-PTFE SURFACE



PINTLE

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

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

Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

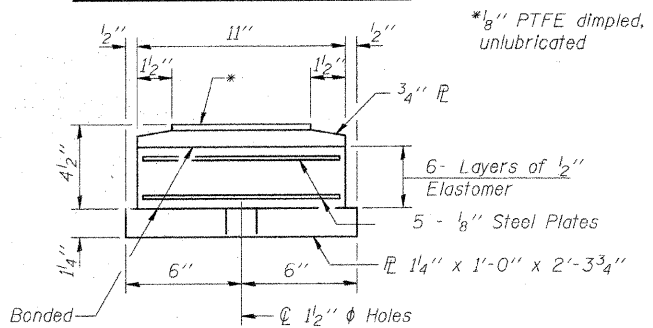
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II.

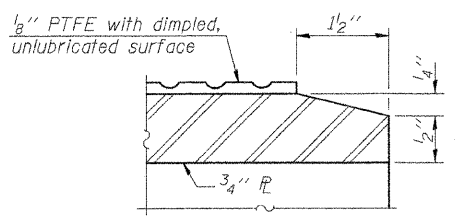
The 1/8" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

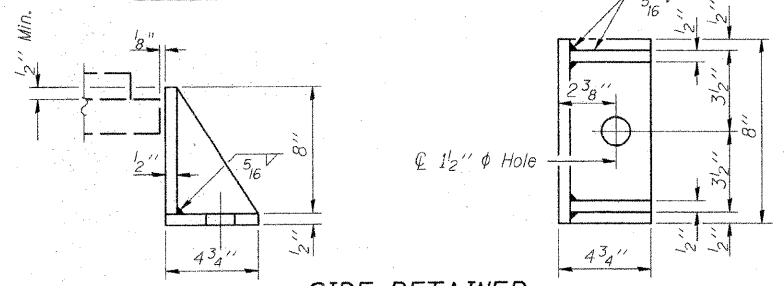
Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.



BOTTOM BEARING ASSEMBLY

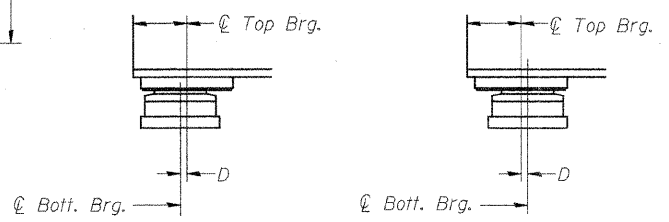


SECTION THRU PTFE



SIDE RETAINER

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



BELOW 50°F. (Move bott. brg. away from fixed brg.) ABOVE 50°F. (Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

D=1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	8
Steel Bearing Assembly	Each	8
Anchor Bolts, 1/4" phi	Each	16
Anchor Bolts, 1/2" phi	Each	16

ELASTOMERIC BEARING ASSEMBLY, TYPE II
F.A.S. 662 (TR 6D) OVER EMBARRAS RIVER
CUMBERLAND COUNTY
SECTION 01-00061-00-BR
STA. 470+75.00
STRUCTURE NUMBER 018-3191
PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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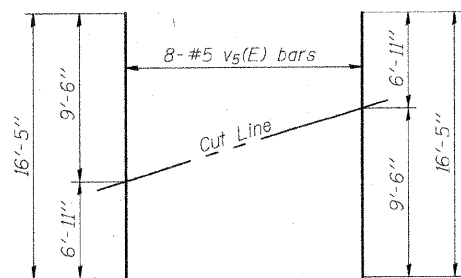
JOB NO. 01S2021B
DATE 02/04/08

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DRAWN	DAP	12/26/07
REVIEWED	JW	02/04/08

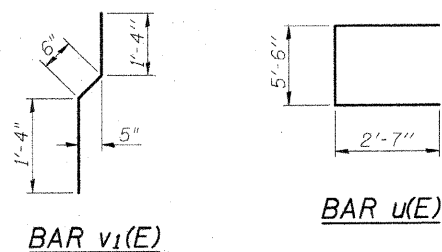
PILE DATA

Type: Steel Piles HP10x42
 Nominal Required Bearing: 335 K
 Allowable Resistance Available: 111 K
 Est. Length: 36' (W. Abut.) - 67' (E. Abut.)
 No. Production Piles: 10 Each Abutment
 No. Test Piles: 1 Each Abutment



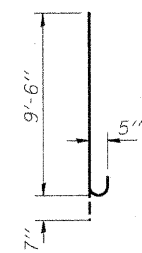
FIELD CUTTING DIAGRAM

Order v5(E) full length. Cut as shown and use remainder of bars in opposite face.

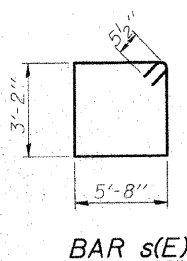


BAR u(E)

BAR v1(E)



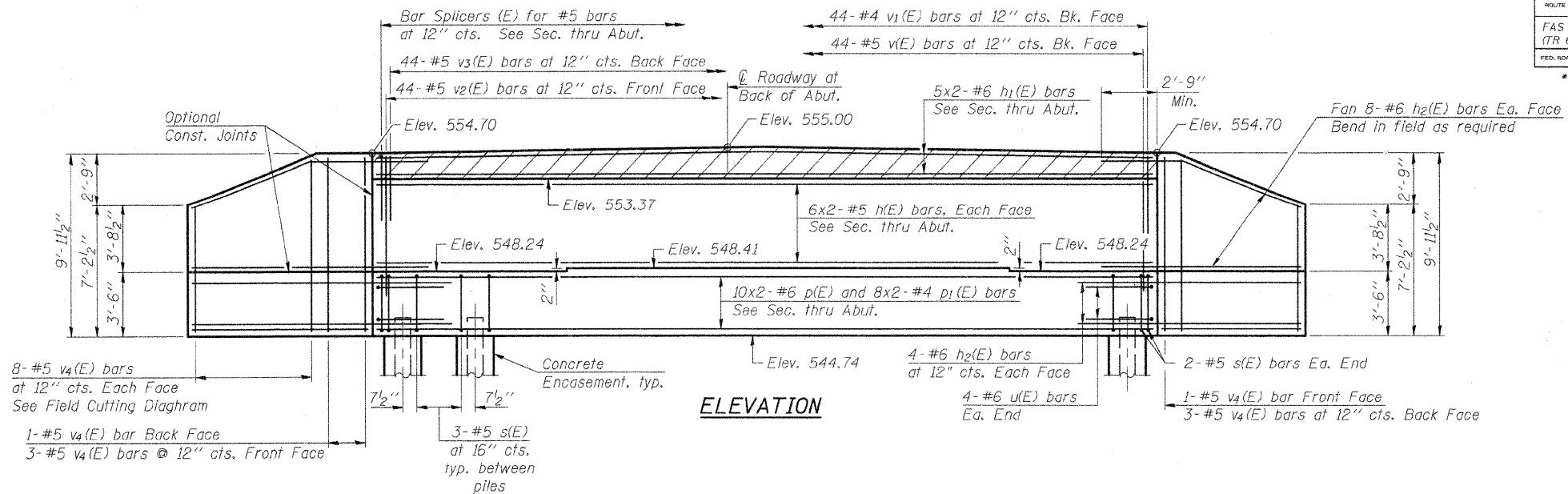
BAR v4(E)



BAR s(E)

MIN. BAR LAPS

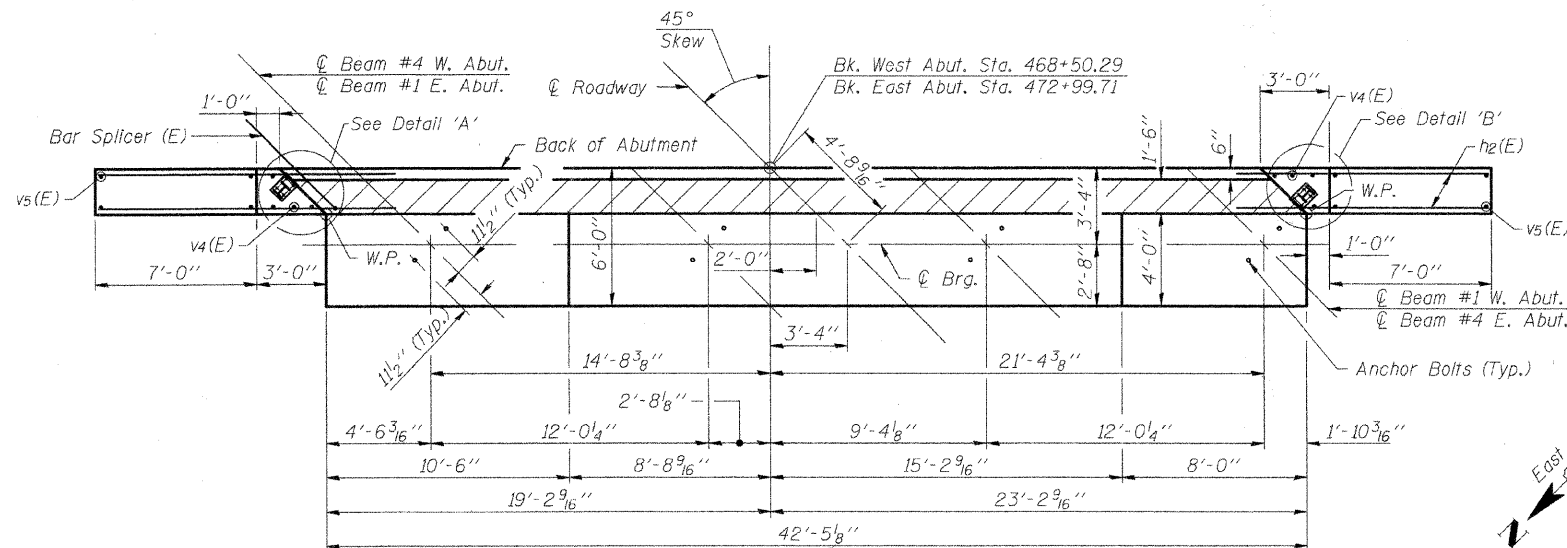
- #4 Bar - 1'-8"
- #5 Bar - 2'-2"
- #6 Bar - 2'-7"



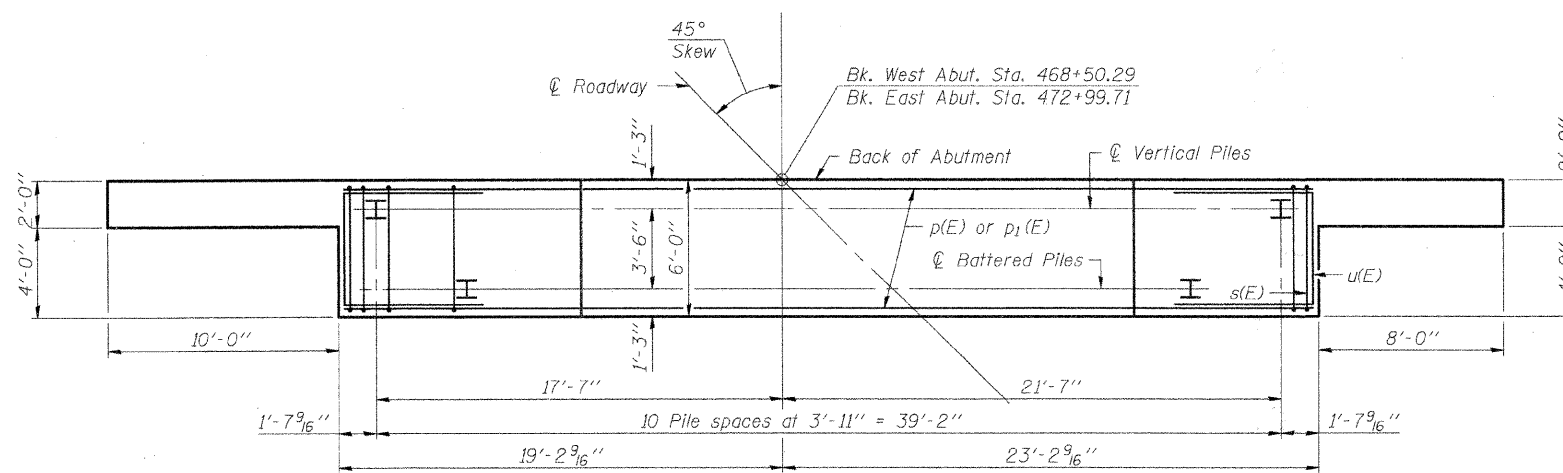
ELEVATION

2-ABUTMENTS BILL OF MATERIAL

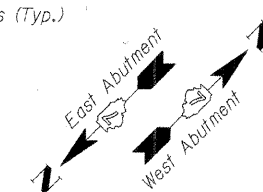
Bar	No.	Size	Length	Shape
h(E)	48	#5	22'-3"	—
h1(E)	20	#6	22'-6"	—
h2(E)	96	#6	10'-2"	—
p(E)	40	#6	22'-6"	—
p1(E)	32	#4	22'-0"	—
s(E)	68	#5	18'-7"	□
u(E)	16	#6	10'-8"	□
v(E)	88	#5	7'-4"	—
v1(E)	88	#4	3'-2"	—
v2(E)	88	#5	8'-9"	—
v3(E)	88	#5	3'-2"	—
v4(E)	16	#5	9'-7"	—
v5(E)	32	#5	16'-5"	—
Concrete Structures	Cu. Yd.		123.1	
Reinforcement Bars, Epoxy Coated	Pound		9310	
Furnishing Steel Piles, HP10x42	Foot		1030	
Driving Piles	Foot		1030	
Test Pile Steel HP10x42	Each		2	
Concrete Encasement	Cu. Yd.		7.6	
Concrete Sealer	Sq. Ft.		342	



TOP VIEW



PLAN-PILE CAP



For details of Bar Splicers, see sheet 20 of 26.
 For details of piles and Concrete Encasement, see sheet 21 of 26.
 Bars indicated thus 10x2-#6 etc. indicates 10 lines of bars with 2 lengths per line.
 For Section thru Abutment, Section thru Wing and Detail "A" & "B", see sheet 17 of 26.
 Structure Excavation required shall be according to Article 502 of the Standard Specifications. Cost for Structure Excavation included with Concrete Structures.

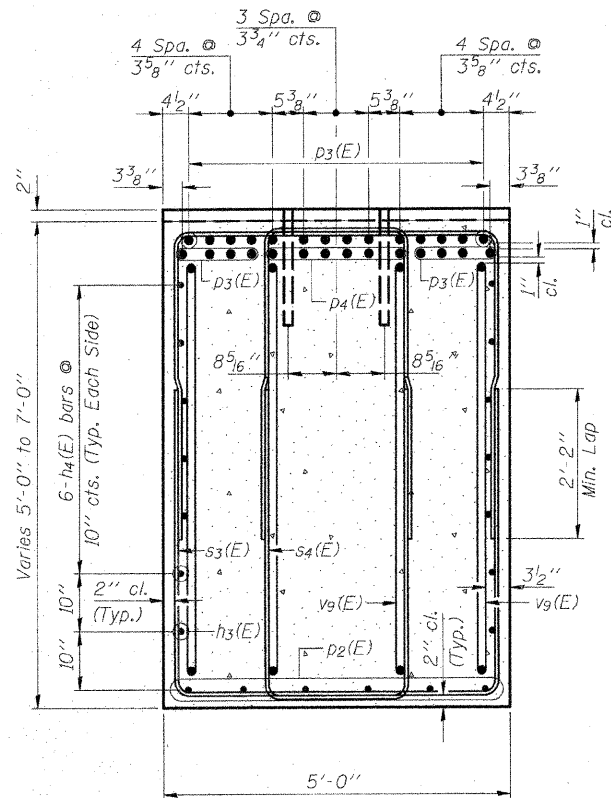
ABUTMENT
 F.A.S. 662 (TR 6D) OVER EMBARRAS RIVER
 CUMBERLAND COUNTY
 SECTION 01-00061-00-BR
 STA. 470+75.00
 STRUCTURE NUMBER 018-3191
 PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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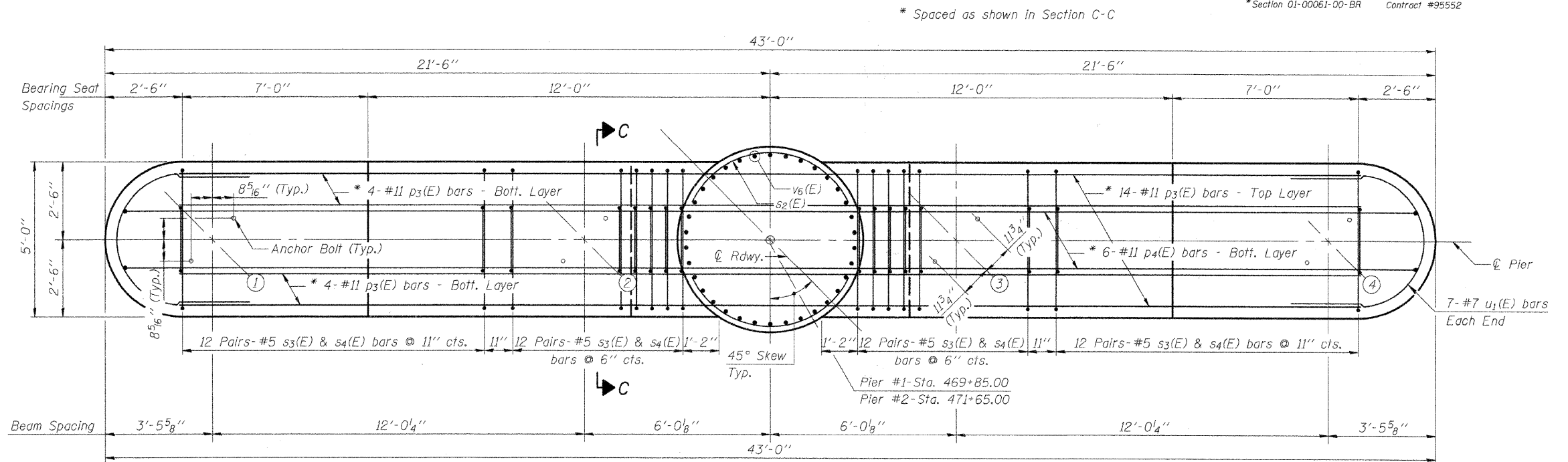
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 Hanson Professional Services Inc.

JOB NO. 01S2021B
 DATE 02/04/08

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 LAYOUT MMJ 11/20/07
 DRAWN DAP 12/28/07
 REVIEWED JRM 02/04/08



SECTION C-C

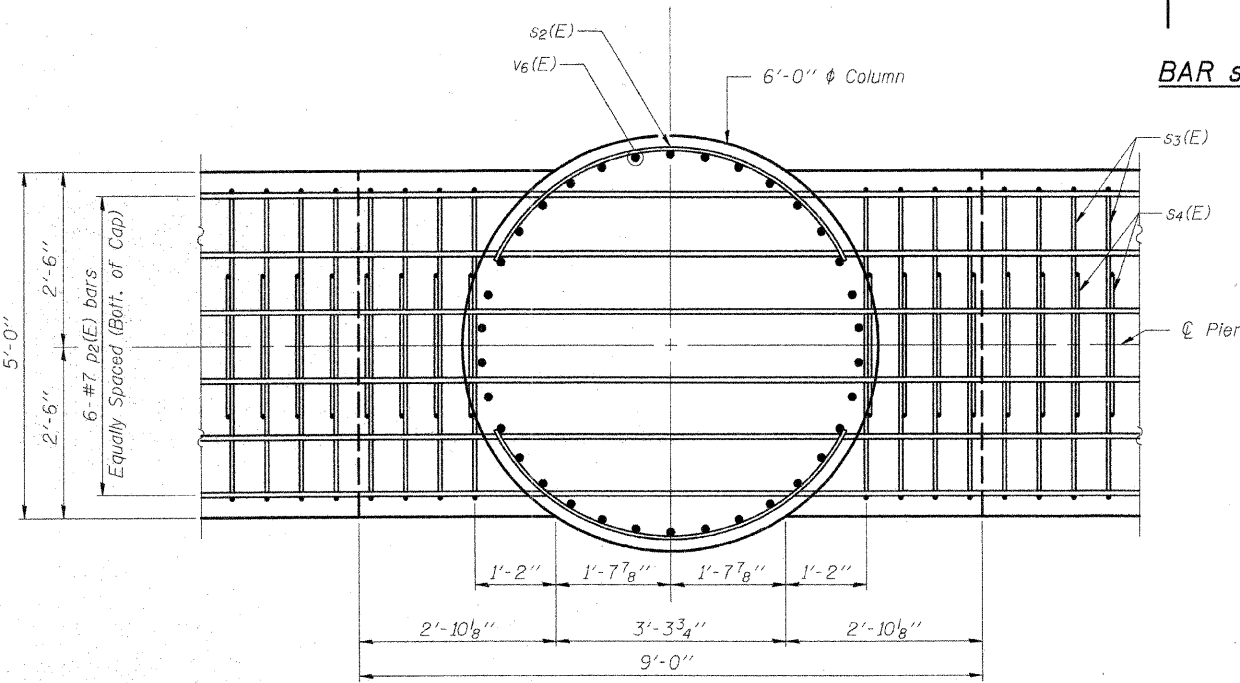


PLAN OF CAP

Showing Reinforcement in Top of Cap.

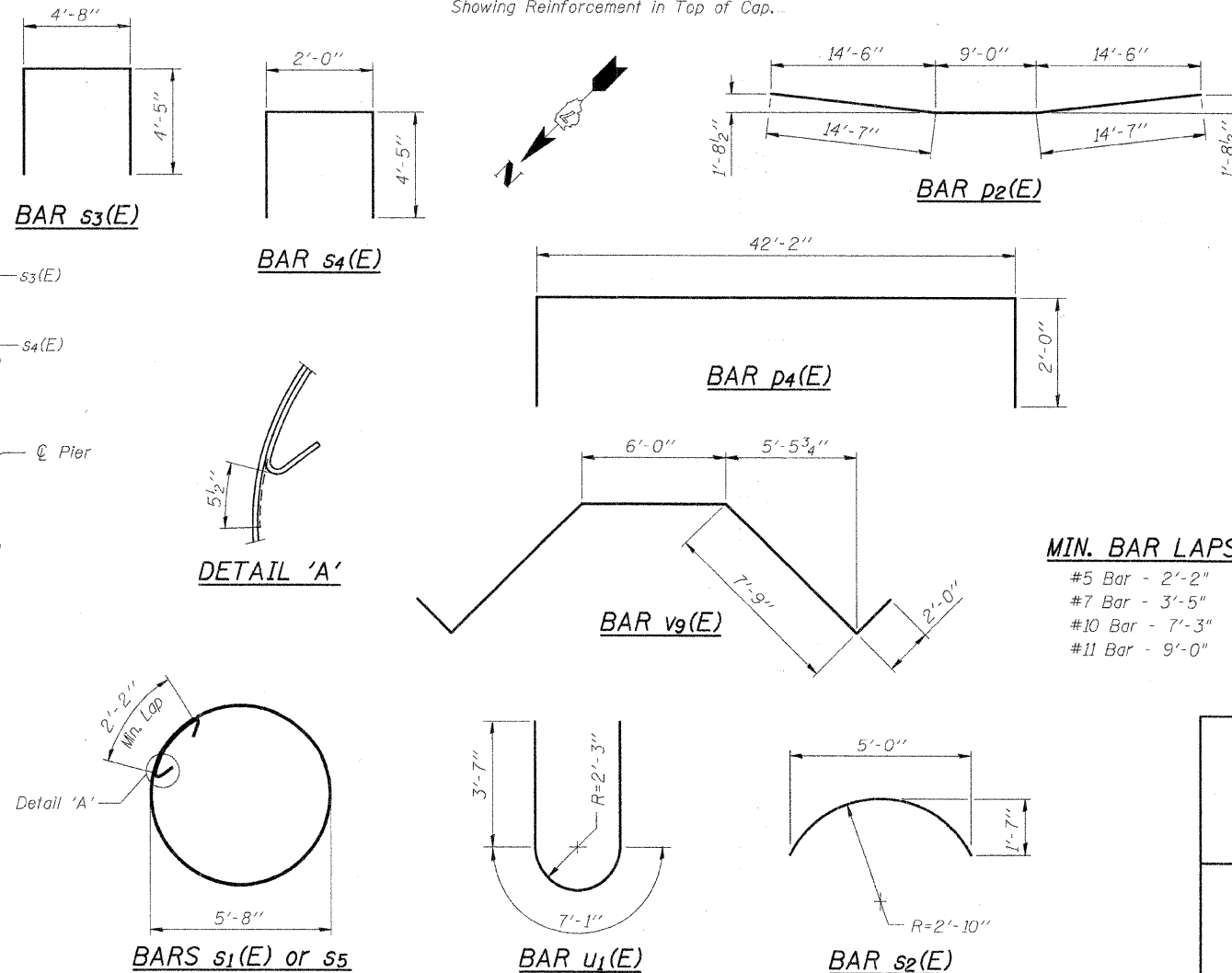
2 PIERS - BILL OF MATERIAL

Bar No.	Size	Length	Shape
h3(E)	4 #7	23'-2"	—
h4(E)	24 #7	38'-0"	—
p2(E)	12 #7	38'-2"	—
p3(E)	44 #11	38'-0"	—
p4(E)	12 #11	46'-2"	—
s1(E)	14 #5	20'-11"	○
s2(E)	32 #5	6'-4"	○
s3(E)	192 #5	13'-6"	○
s4(E)	192 #5	10'-10"	○
s5	176 #5	20'-11"	○
u1(E)	28 #7	14'-3"	U
v6(E)	68 #10	19'-3"	—
v7	68 #11	43'-5"	—
v8	68 #11	52'-5"	—
v9(E)	8 #11	25'-6"	—
Concrete Structures	Cu. Yd.	110.9	
Reinforcement Bars, Epoxy Coated	Pound	27740	
Reinforcement Bars	Pounds	38460	
Drilled Shaft in Soil	Cu. Yd.	198.6	
Drilled Shaft in Rock	Cu. Yd.	12.6	



SECTION D-D

Showing Reinforcement in Bottom of Cap.



MIN. BAR LAPS

- #5 Bar - 2'-2"
- #7 Bar - 3'-5"
- #10 Bar - 7'-3"
- #11 Bar - 9'-0"

Cast steps monolithically with cap. Space cap reinforcement to miss anchor bolts.

PIER DETAILS
 F.A.S. 662 (TR 61) OVER EMBARRAS RIVER
 CUMBERLAND COUNTY
 SECTION 01-00061-00-BR
 STA. 470+75.00
 STRUCTURE NUMBER 018-3191
 PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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HANSON
 Hanson Professional Services Inc.

JOB NO. 01S2021B
 DATE 02/04/08

04/01/2008 03:06 PM
 Addnote 01S2021B-Cap and Structure Steel Reinforcement Plans.dgn
 LAYOUT: JMM
 DRAWN: JMM
 REVIEWED: JMM

NOTES

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

- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
 - ② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8

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

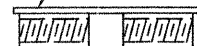
The diameter of this part is equal or larger than the diameter of bar spliced.

ROLLED THREAD DOWEL BAR



**** ONE PIECE**

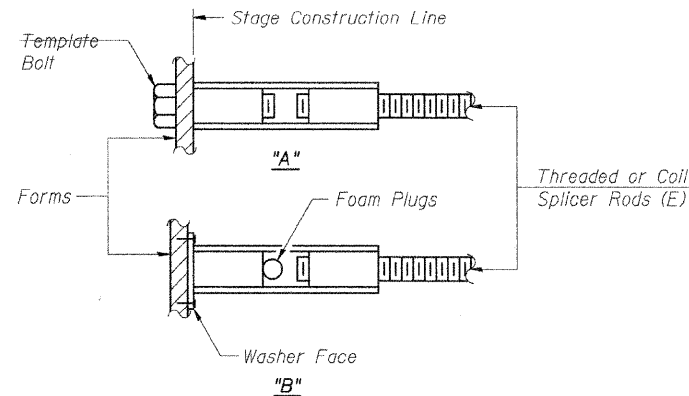
Wire Connector



WELDED SECTIONS

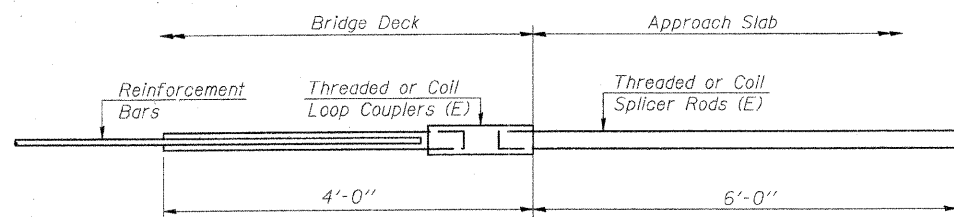
BAR SPLICER ASSEMBLY ALTERNATIVES

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



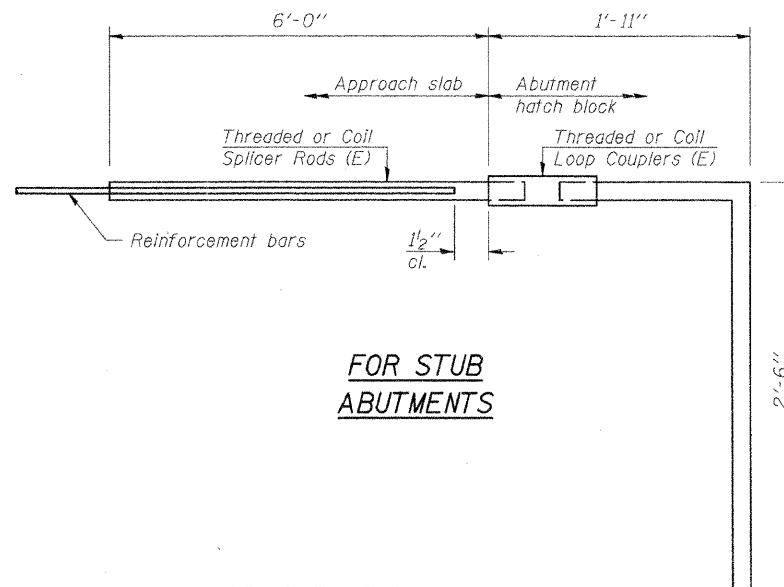
INSTALLATION AND SETTING METHODS

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



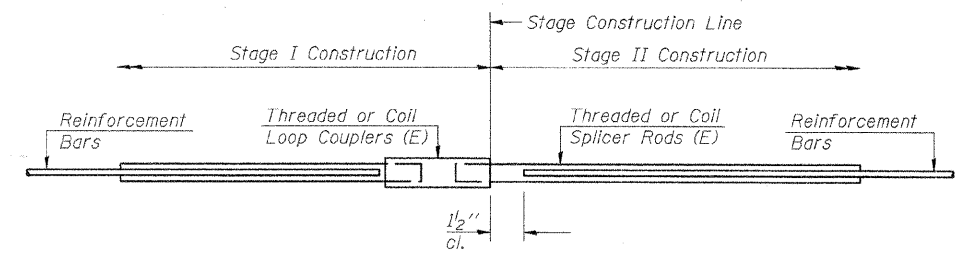
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

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



FOR STUB ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 62



STANDARD

Bar Size	No. Assemblies Required	Location

BAR SPLICER ASSEMBLY DETAILS
 F.A.S. 662 (TR 6D) OVER EMBARRAS RIVER
 CUMBERLAND COUNTY
 SECTION 01-00061-00-BR
 STA. 470+75.00
 STRUCTURE NUMBER 018-3191
 PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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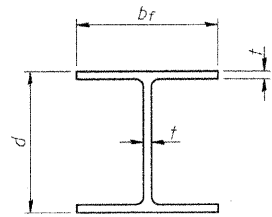
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01S2021B

DATE
02/04/08

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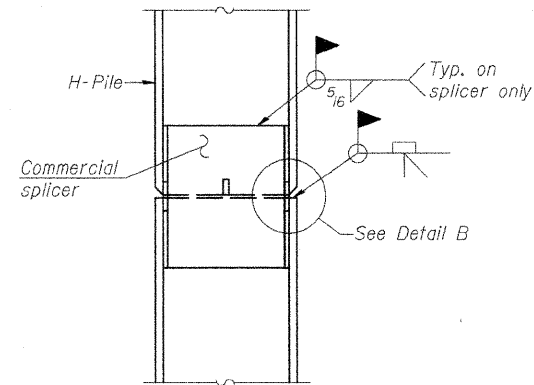
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DRAWN	DJP	12/28/07
REVIEWED	JMM	02/04/08

*Section 01-00061-00-BR Contract #95552

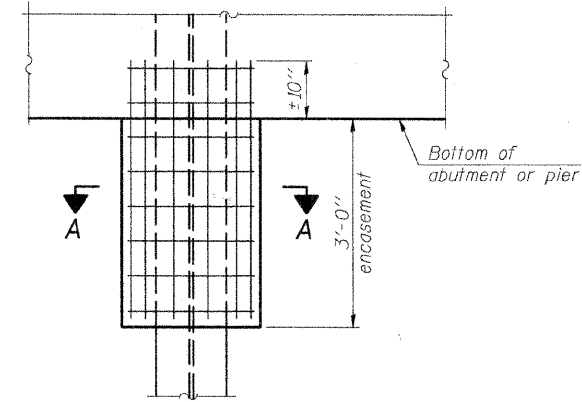


STEEL PILE TABLE

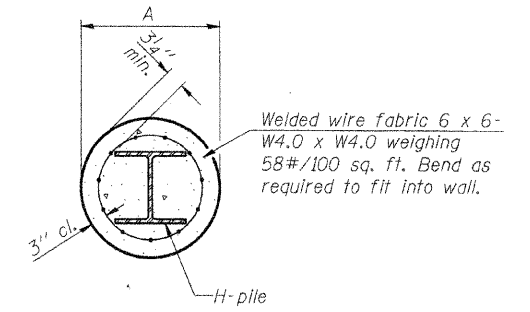
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"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



ELEVATION



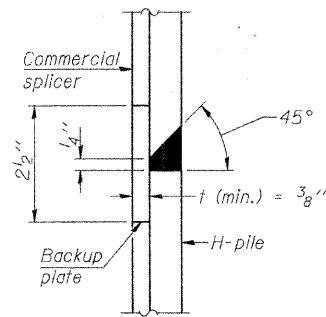
ELEVATION



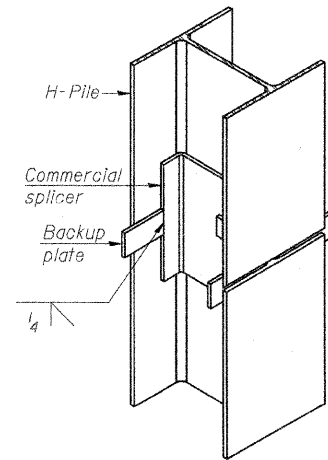
SECTION A-A

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

PILE ENCASEMENT

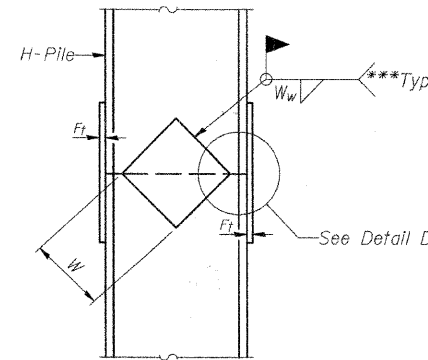


DETAIL "B"

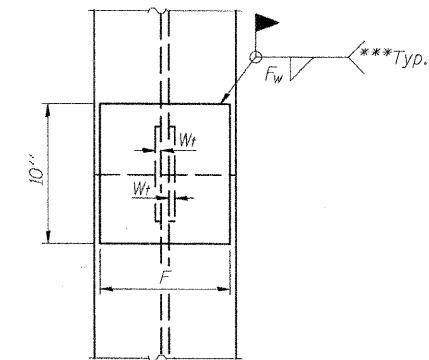


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE

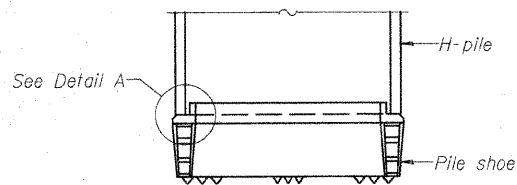


ELEVATION

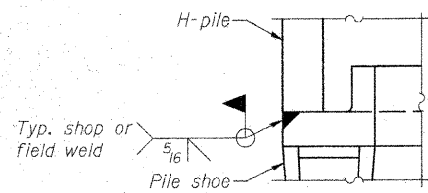


END VIEW

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"	1 1/16"	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"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	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"

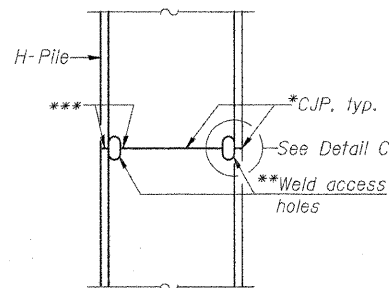


ELEVATION

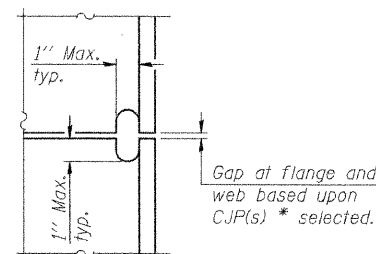


DETAIL A

H-PILE SHOE ATTACHMENT

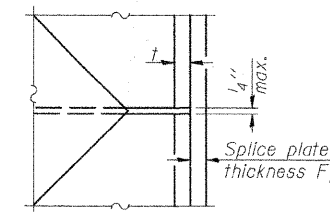


ELEVATION



DETAIL C

COMPLETE PENETRATION WELD SPLICE



DETAIL D

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.

STEEL H-PILES
F.A.S. 662 (TR 61) OVER EMBARRAS RIVER
CUMBERLAND COUNTY
SECTION 01-00061-00-BR
STA. 470+75.00
STRUCTURE NUMBER 018-3191
PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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JOB NO.
01S2021B

DATE
02/04/08

04/01/2008 03:06 PM
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LAYOUT	MM	11/20/07
DRAWN	DAP	12/28/07
REVIEWED	JMM	02/04/08

F-HP

9-3-07

ROUTE FAS 662 (TR 61) DESCRIPTION TR 61 Extension-Embarras River Bridge LOGGED BY Ryan Keady
 SECTION 01-00061-00-BR LOCATION E 1/2, SEC. 12, TWP. 10 N. RNG. 9 E, 3rd PM
 COUNTY Cumberland DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto 140#

STRUCT. NO.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	DEPTH (ft)	DIAMETER (in)	FAILURE MODE	UCS (tsf)	SPT (blows)	DESCRIPTION	DEPTH (ft)	DIAMETER (in)	FAILURE MODE	UCS (tsf)	SPT (blows)
081-3191	470+75	4 E. Pier	471+65	3.00ft LT.	531.17						Disturbed river bottom, loose, brown, very fine, sandy silt trace gravel.					
						2						527.67				
						5					Very stiff, brown gray sandy silt, little clay & trace gravel.					
						6	3.9	BS	9.3			508.17				
						8					Dense, gray, silty, fine to coarse sand.					
						15	3.7	B	11.1			525.17				
						17					Very stiff, gray brown, sandy silt, trace gravel & clay.					
						13	4.5	P	9.3			522.67				
						18					Very stiff to hard, gray fine sandy silt, trace clay & gravel.					
						5						500.17				
						7					Very stiff to hard, fine sandy, silty clay, trace gravel.					
						15	4.8	BS	12.0							
						14										
						7										
						12	3.3		13.7							
						12		B								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, from 137 (Rev. 8-99)

ROUTE FAS 662 (TR 61) DESCRIPTION TR 61 Extension-Embarras River Bridge LOGGED BY Ryan Keady
 SECTION 01-00061-00-BR LOCATION E 1/2, SEC. 12, TWP. 10 N. RNG. 9 E, 3rd PM
 COUNTY Cumberland DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto 140#

STRUCT. NO.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	DEPTH (ft)	DIAMETER (in)	FAILURE MODE	UCS (tsf)	SPT (blows)	DESCRIPTION	DEPTH (ft)	DIAMETER (in)	FAILURE MODE	UCS (tsf)	SPT (blows)
081-3191	470+75	4 E. Pier	471+65	3.00ft LT.	531.17						Very stiff to hard, fine sandy, silty clay, trace gravel. (continued)					
						3						489.17				
						7	2.4	B	19.8							
						8					Very stiff, gray sandy silty clay, trace gravel & organics.					
						6	3.9	B	22.6			484.17				
						7					Very stiff, gray silty clay, trace sand & gravel, trace wood.					
						3						483.17				
						6					Medium dense, gray silty fine sand, saturated.					
						10										
						7										
						3						481.17				
						7	3.1	B	23.4							
						8					Loose, gray fine to medium sand, saturated.					
						5					-24 ft. blowin @ 76 ft. depth; jetted hole.					
						3						479.17				
						5					Very soft, gray shale.					
						4						475.17				
						6	2.8	B	20.4							
						9					Very stiff, gray brown, sandy silty clay, trace gravel & organics.					
						5	4.5	P	12.3			457.67				
						6					End of Boring					
						10		B				454.67				
						4						452.42				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, from 137 (Rev. 8-99)

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 A:\Jobs\0152021B\cadd\Struct\Sheet\River_Bridges_Plans.dgn
 LAYOUT: JMM 11/20/07
 DRAWN: DAP 12/29/07
 REVIEWED: JMM 02/04/08

BORINGS (SHEET 3)
 F.A.S. 662 (TR 61) OVER EMBARRAS RIVER
 CUMBERLAND COUNTY
 SECTION 01-00061-00-BR
 STA. 470+75.00
 STRUCTURE NUMBER 018-3191
 PROFESSIONAL DESIGN FIRM LICENSE #184-001084

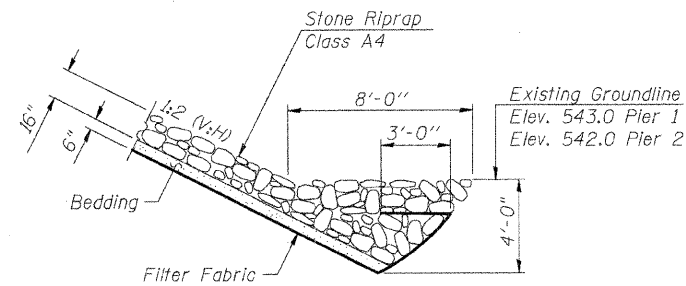
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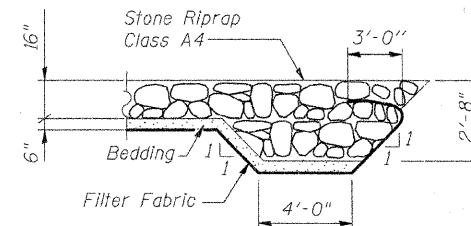
JOB NO.
0152021B
DATE
02/04/08

INDEX OF BRIDGE SHEETS

1. General Plan & Elevation
2. General Notes, Index of Bridge Sheets, Total Bill of Material, and General Details
3. P.P.C. Deck Beam Superstructure
4. 27" x 36" P.P.C. Deck Beam
5. 27" x 36" P.P.C. Deck Beam Details
6. Steel Railing, Type S1
7. Pile Bent Abutment Details
8. Pile Bent Pier Details
9. Steel H-Pile Details
10. Boring Logs



SECTION B-B



**SECTION C-C
FLANK STONE RIPRAP DETAIL**

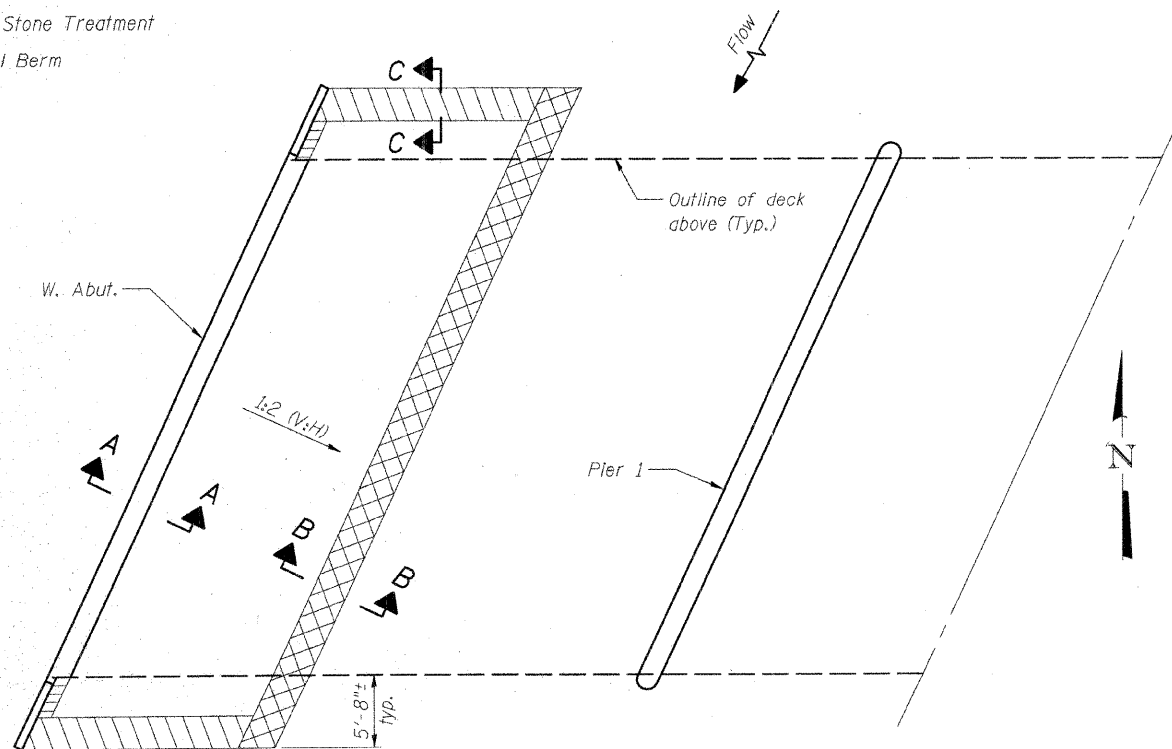
Note:
Excavation required for placing Riprap shall be according to Article 502 of the Standard Specifications. Cost for excavation shall be included with Stone Riprap, Class A4.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.	Total
Stone Riprap, Class A4	Sq. Yd.	-	309	309
Filter Fabric	Sq. Yd.	-	309	309
Concrete Structures	Cu. Yd.	-	63.6	63.6
Concrete Encasement	Cu. Yd.	-	40.2	40.2
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	5441.5	-	5441.5
Steel Railing, Type S1	Foot	368	-	368
Reinforcement Bars, Epoxy Coated	Pound	-	7980	7980
Furnishing Steel Piles, HP 10x42	Foot	-	846	846
Furnishing Steel Piles, HP 14x89	Foot	-	952	952
Driving Piles	Foot	-	1798	1798
Test Pile, Steel HP 10x42	Each	-	2	2
Test Pile, Steel HP 14x89	Each	-	2	2
Name Plates	Each	1	-	1

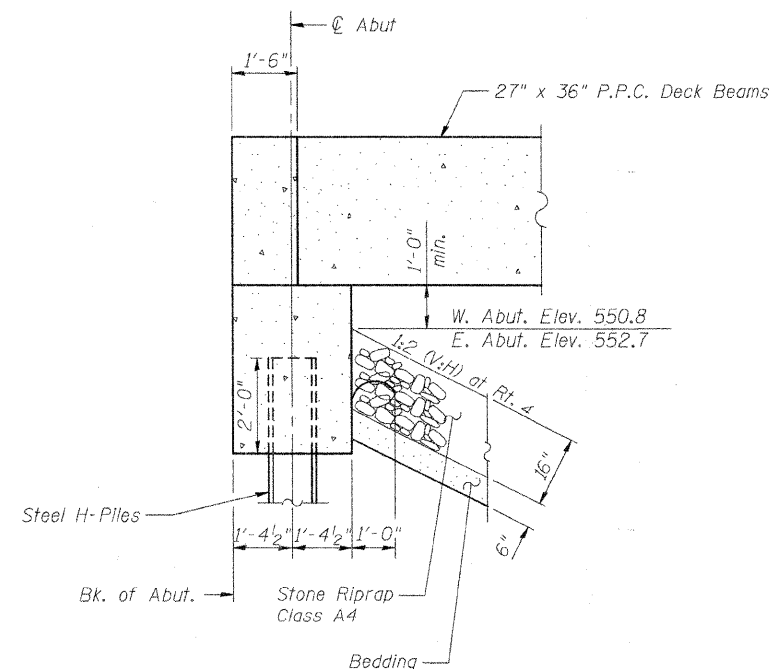
LEGEND

- Flank Treatment
- Toe Stone Treatment
- Level Berm



RIPRAP LAYOUT PLAN

(West Abutment shown; East Abutment similar)



**SECTION A-A
SECTION THRU ABUTMENT**
(Horiz. dim. @ Rt. L's)

GENERAL NOTES, INDEX OF BRIDGE SHEETS,
TOTAL BILL OF MATERIAL, AND GENERAL DETAILS
F.A.S. 662 (TR 61) EMBARRAS RIVER OVERFLOW STRUCTURE
CUMBERLAND COUNTY
SECTION 01-00061-00-BR
STA. 477+62
STRUCTURE NUMBER 018-3194
PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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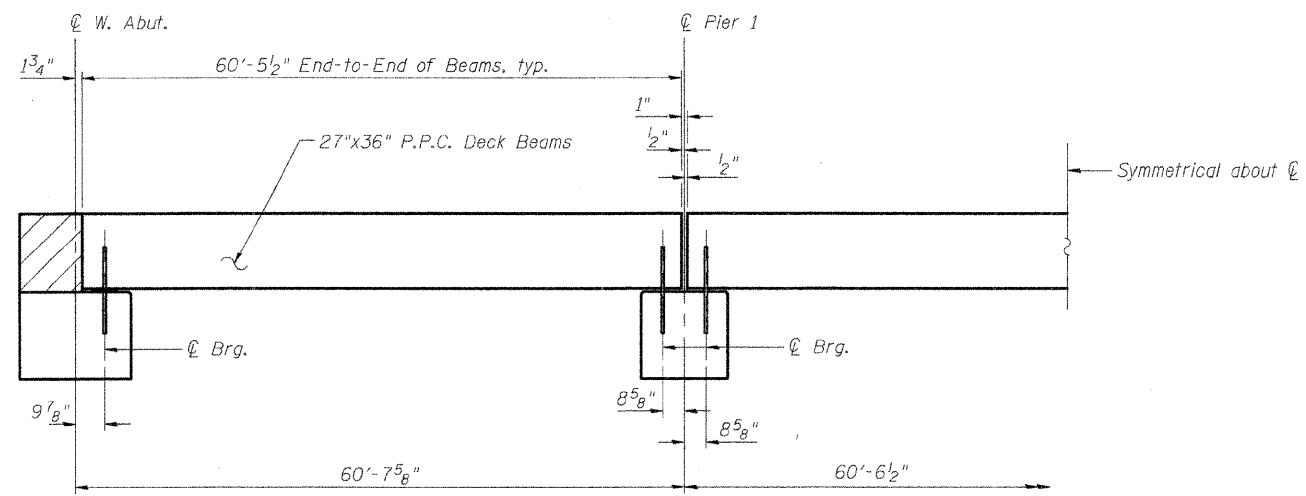
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JOB NO.
01S2021B

DATE
02/04/08

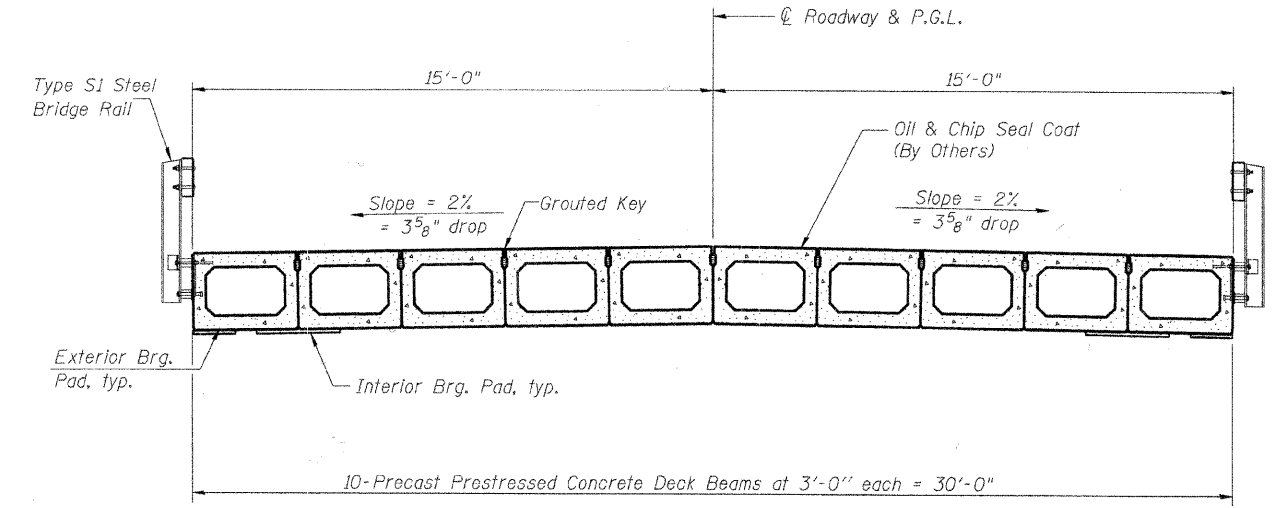
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DRAWN	MCM	01/23/07
REVIEWED	MM	01/23/07

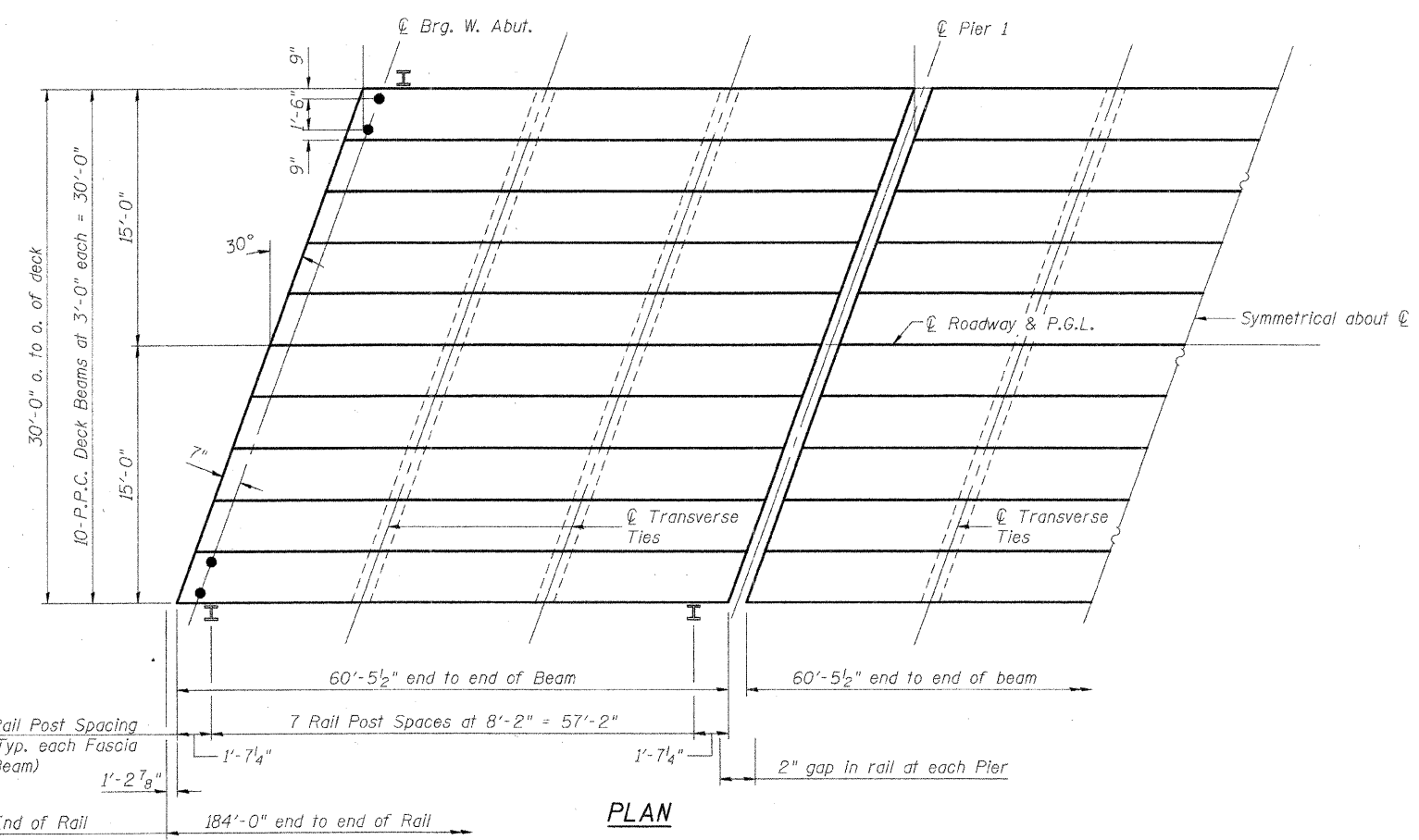


ELEVATION

All dimensions along \varnothing roadway



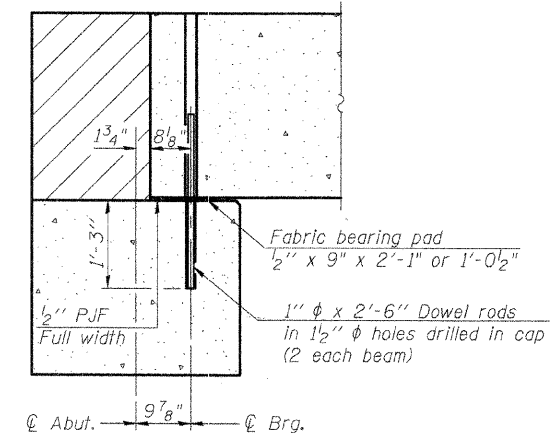
CROSS SECTION



PLAN

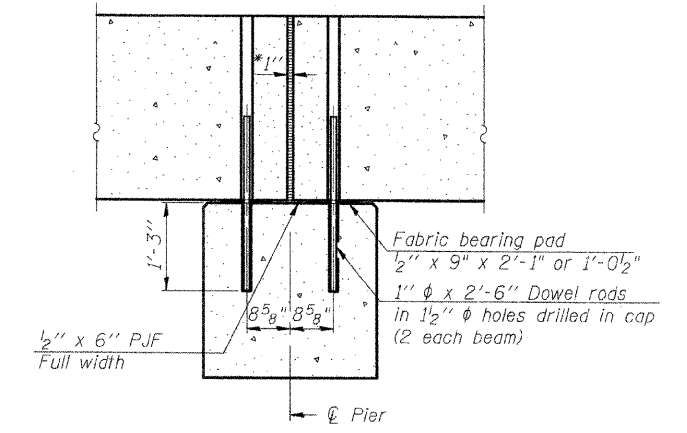
NOTES

After beams have been erected, holes shall be drill into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hours prior to grouting the shear keys. Longitudinal keys shall be grouted.
 The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing.
 See sheet 4 of 10 for bearing pad details.
 Hatched area to be poured after deck beams are in place, and will be paid for as Concrete Structures.



SECTION THRU ABUTMENT

All dimensions along \varnothing roadway



SECTION THRU FIXED PIER

All dimensions along \varnothing roadway

*1" Jt. shall be filled with non-shrink grout.
 1" dimension may vary to accommodate tolerance in beam lengths.

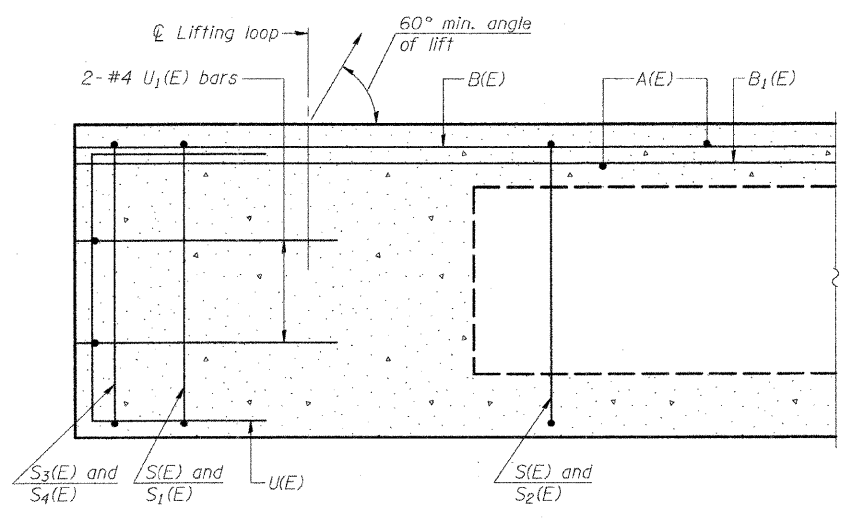
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 DRAWN: NCM 01/30/08
 REVIEWED: MM 01/30/08

P.P.C. DECK BEAM SUPERSTRUCTURE
 F.A.S. 662 (TR 61) EMBARRAS RIVER OVERFLOW STRUCTURE
 CUMBERLAND COUNTY
 SECTION 01-00061-00-BR
 STA. 477+62
 STRUCTURE NUMBER 018-3194
 PROFESSIONAL DESIGN FIRM LICENSE #184-001084

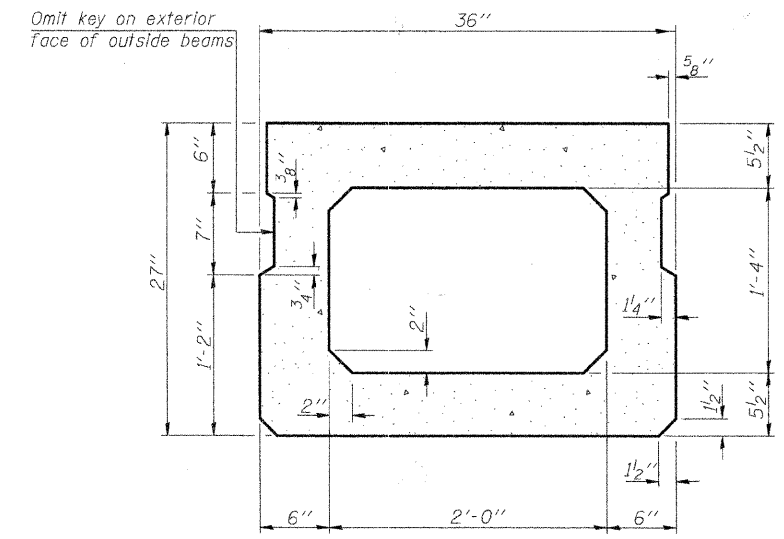
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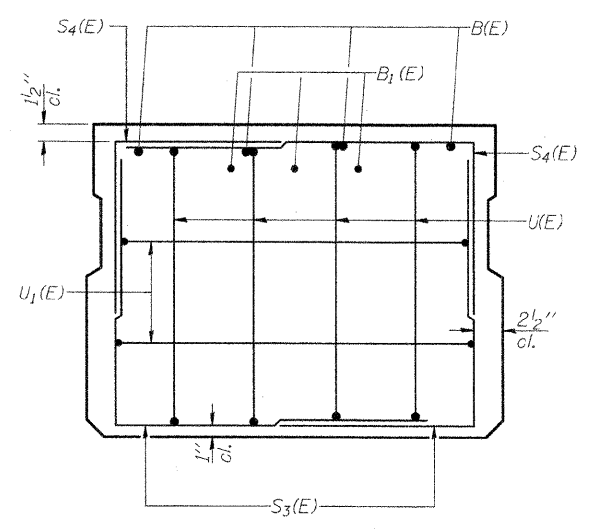
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 DATE 02/04/08



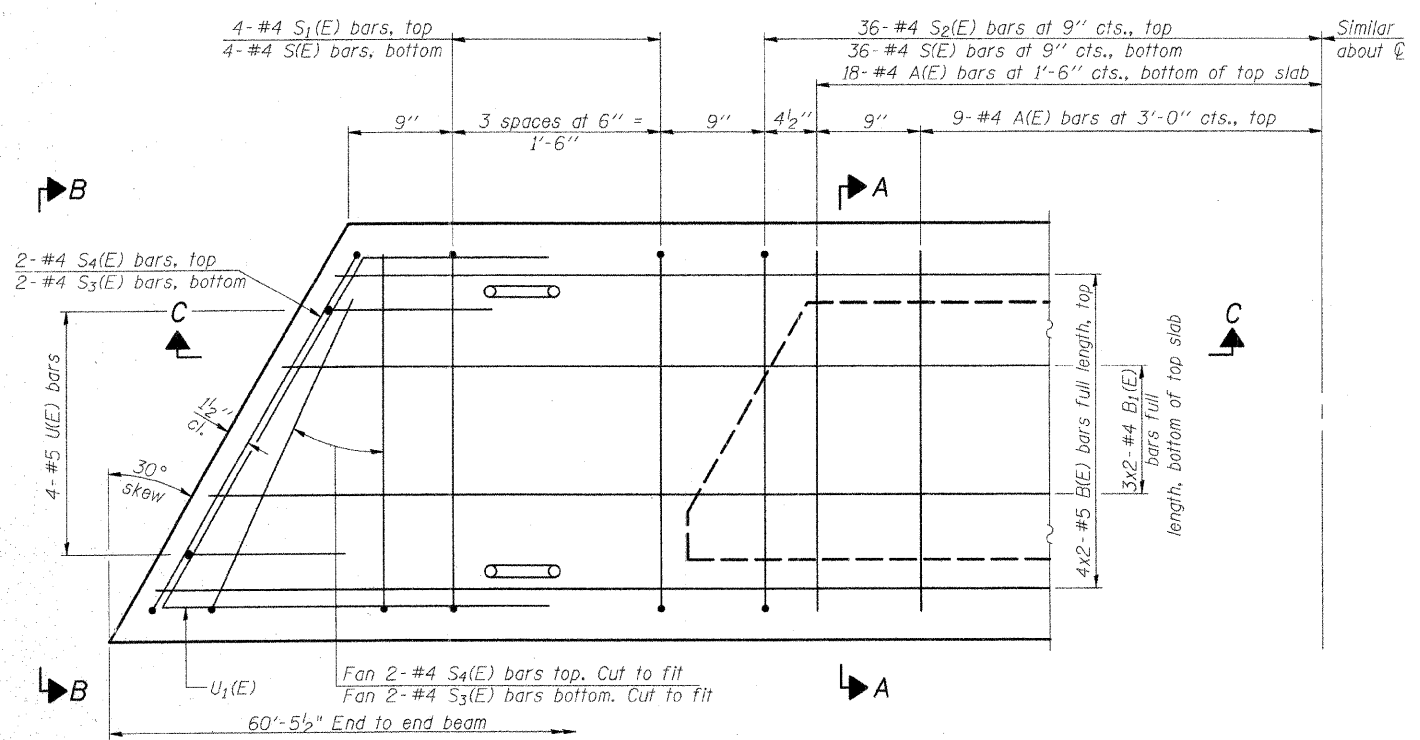
SECTION C-C



SECTION A-A
(Showing dimensions)

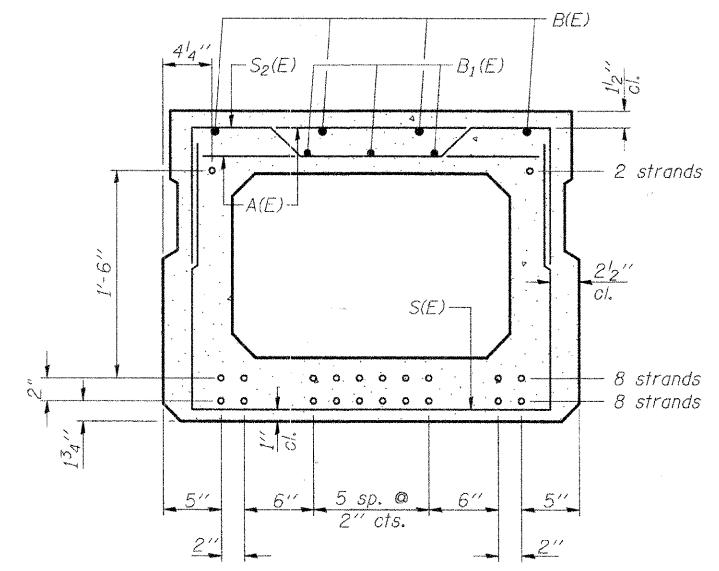


VIEW B-B



PLAN VIEW

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



SECTION A-A

(Showing reinforcement and permissible strand locations)
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	54	#4	2'-7"	—
B(E)	8	#5	31'-4"	—
B1(E)	6	#4	30'-11"	—
S(E)	80	#4	6'-5"	U
S1(E)	8	#4	6'-3"	U
S2(E)	72	#4	6'-6"	U
S3(E)	8	#4	4'-5"	U
S4(E)	8	#4	4'-4"	U
U(E)	8	#5	4'-6"	U
U1(E)	4	#4	6'-10"	U

Note: See sheet 5 of 10 for additional details and Bill of Material.

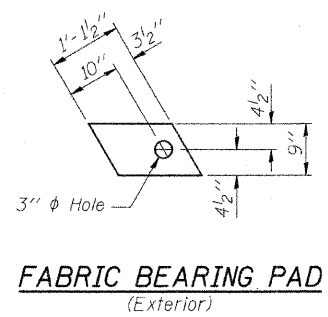
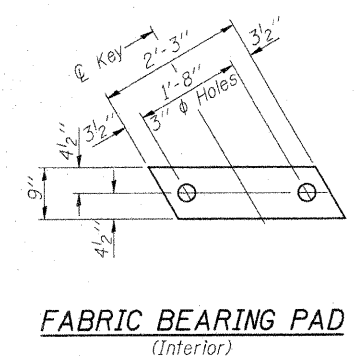
27" x 36" P.P.C. DECK BEAM
F.A.S. 662 (TR 61) EMBARRAS RIVER OVERFLOW STRUCTURE
CUMBERLAND COUNTY
SECTION 01-00061-00-BR
STA. 477+62
STRUCTURE NUMBER 018-3194
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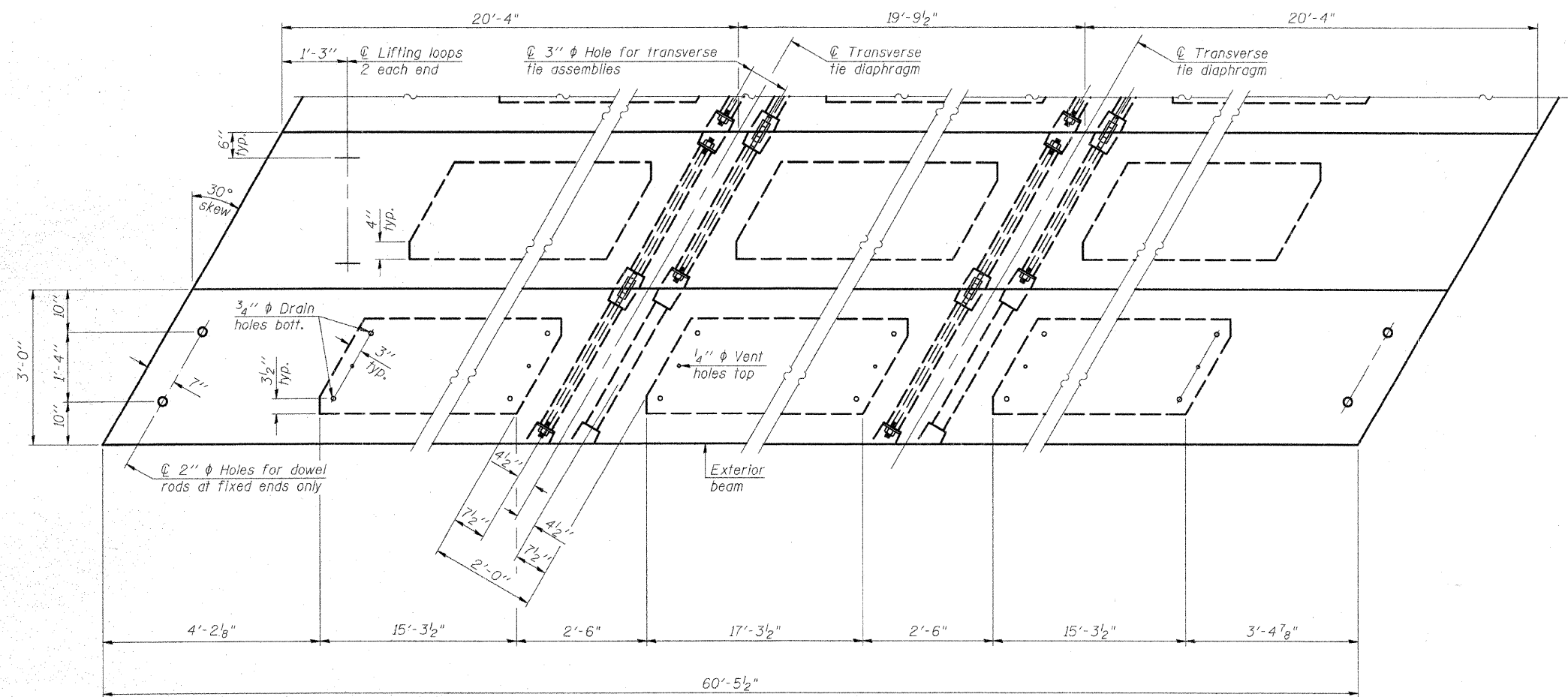
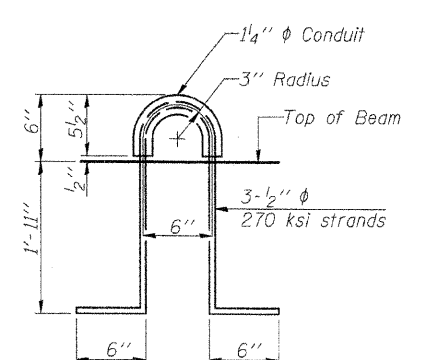
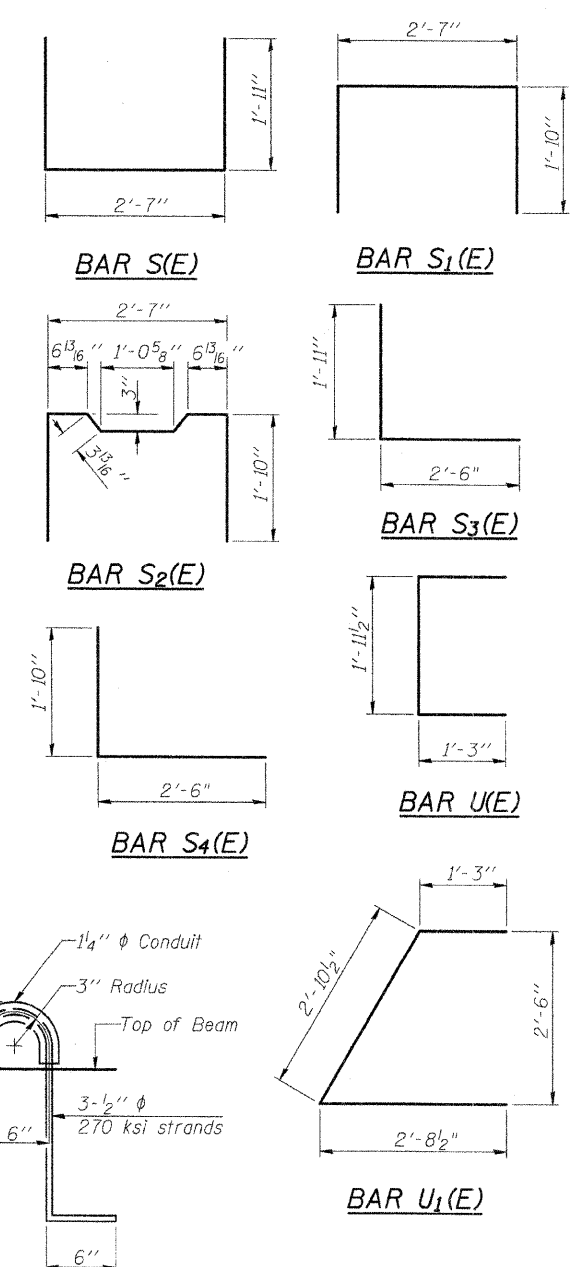
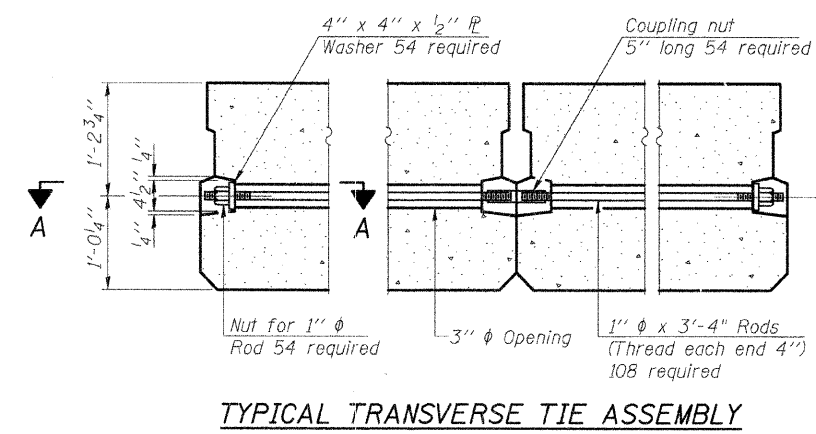
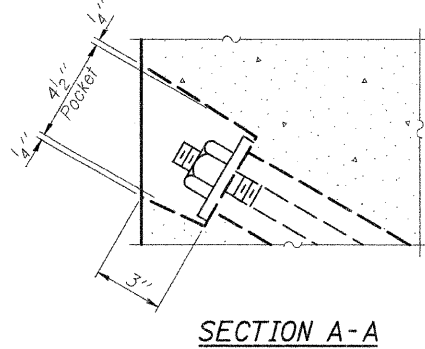
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JOB NO. 01S2021B
DATE 02/04/08

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 LAYOUT 11/16/07
 DRAWN MCM 01/20/08
 REVIEWED MCM 01/20/08



FIXED
Note: Omit holes when using expansion bearings.



PLAN VIEW

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
Reinforcement bars shall conform to ASTM A 706 (IL MOD), Grade 60. (See Special Provisions)
Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
A minimum 2 1/2" lifting pin shall be used to engage the lifting loops during handling.
Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

Note: Connect beams in pairs with the transverse tie configuration shown.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	5441.5
---	---------	--------

27" x 36" P.P.C. DECK BEAM DETAILS
F.A.S. 662 (TR 61) EMBARRAS RIVER OVERFLOW STRUCTURE
CUMBERLAND COUNTY
SECTION 01-00061-00-BR
STA. 477+62
STRUCTURE NUMBER 018-3194
PROFESSIONAL DESIGN FIRM LICENSE #184-001084

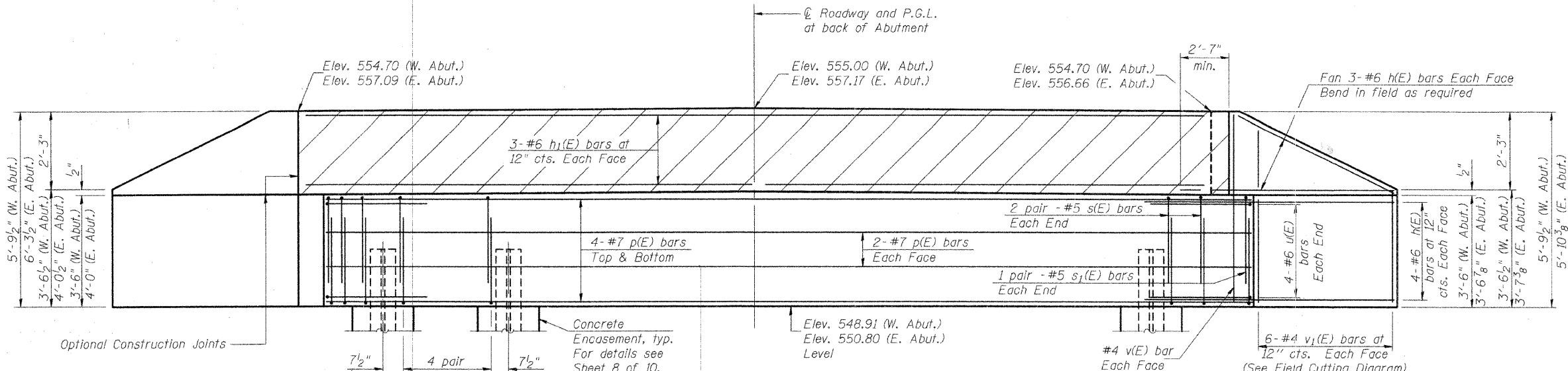
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DATE 02/04/08

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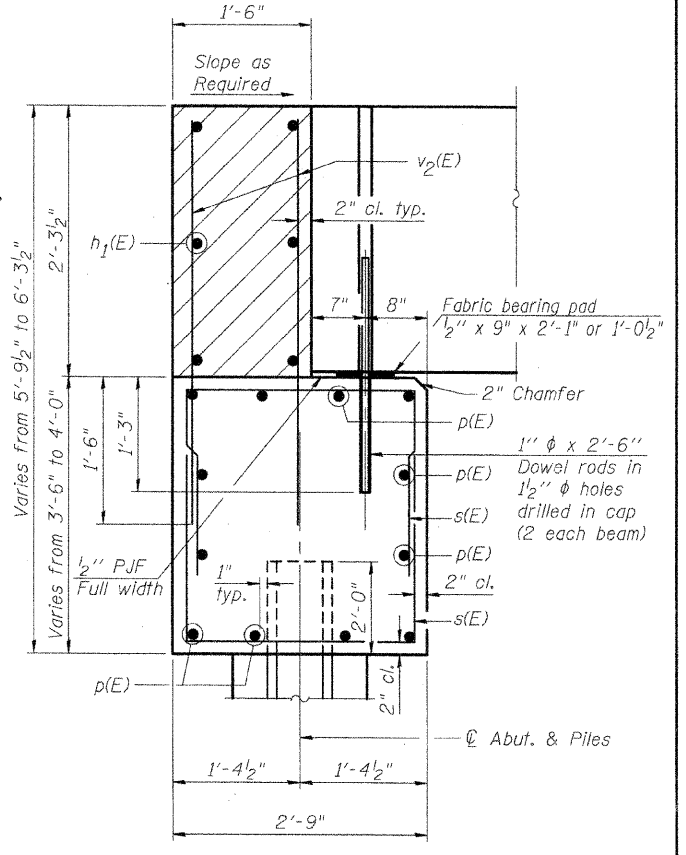


ELEVATION

(Looking West at W. Abut.)
(Looking East at E. Abut.)
Elevations given at back of abutment
See Plan for other cap elevations

TABLE OF ELEVATIONS

	Pt. A	Pt. B	Pt. C	Pt. D	Pt. E	Pt. F
W. Abut.	552.41	552.71	552.41	552.41	552.71	552.41
E. Abut.	554.80	554.88	554.37	554.72	554.80	554.30



SECTION THRU ABUTMENT

NOTES:

After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys. All horizontal dimensions are at right angles to beam ends. Hatched area to be poured after deck beams are in place. See sheet 5 of 10 for bearing pad details. Space cap reinforcement to miss Dowel Rods. Structure Excavation required shall be according to Article 502 of the Standard Specifications. Cost for Structure Excavation included with Concrete Structures.

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

PILE BENT ABUTMENT DETAILS
F.A.S. 662 (TR 61) EMBARRAS RIVER OVERFLOW STRUCTURE
CUMBERLAND COUNTY
SECTION 01-00061-00-BR
STA. 477+62
STRUCTURE NUMBER 018-3194
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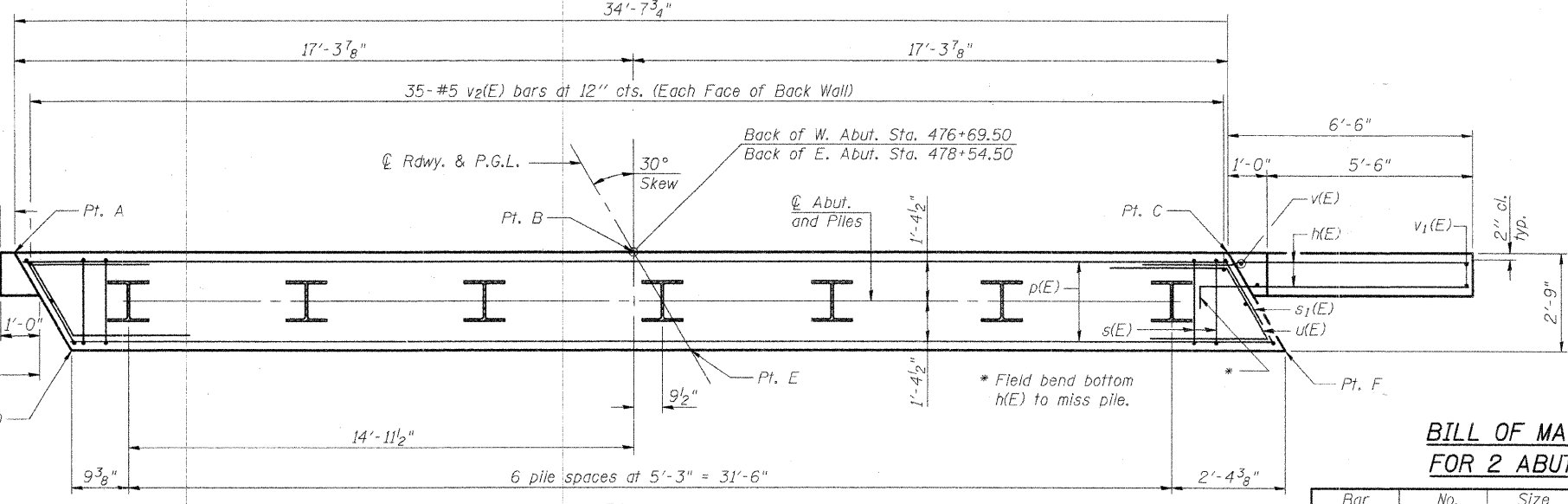
Hanson Professional Services Inc.

JOB NO. 01S2021B
DATE 02/04/08

BILL OF MATERIAL FOR 2 ABUTMENTS

Bar	No.	Size	Length	Shape
h(E)	56	#6	9'-4"	—
h1(E)	12	#6	34'-4"	—
p(E)	24	#7	34'-4"	—
s(E)	112	#5	7'-11"	U
s1(E)	8	#5	8'-3"	U
u(E)	16	#6	8'-7"	┘
v(E)	8	#4	5'-6"	—
v1(E)	24	#4	9'-0"	—
v2(E)	140	#5	3'-8"	—
Concrete Structures		Cu. Yd.	39.6	
Reinforcement Bars, Epoxy Coated		Pound	5000	
Furnishing Steel Piles, HP10x42		Foot	846	
Driving Piles		Foot	846	
Test Pile, Steel HP10x42		Each	2	
Concrete Encasement		Cu. Yd.	4.9	

For details of piles and Concrete Encasement, see sheet 9 of 10.

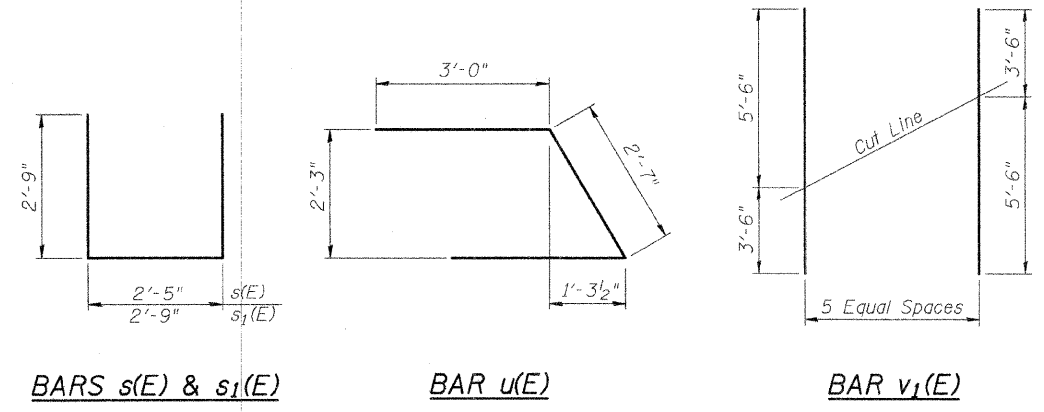


PLAN

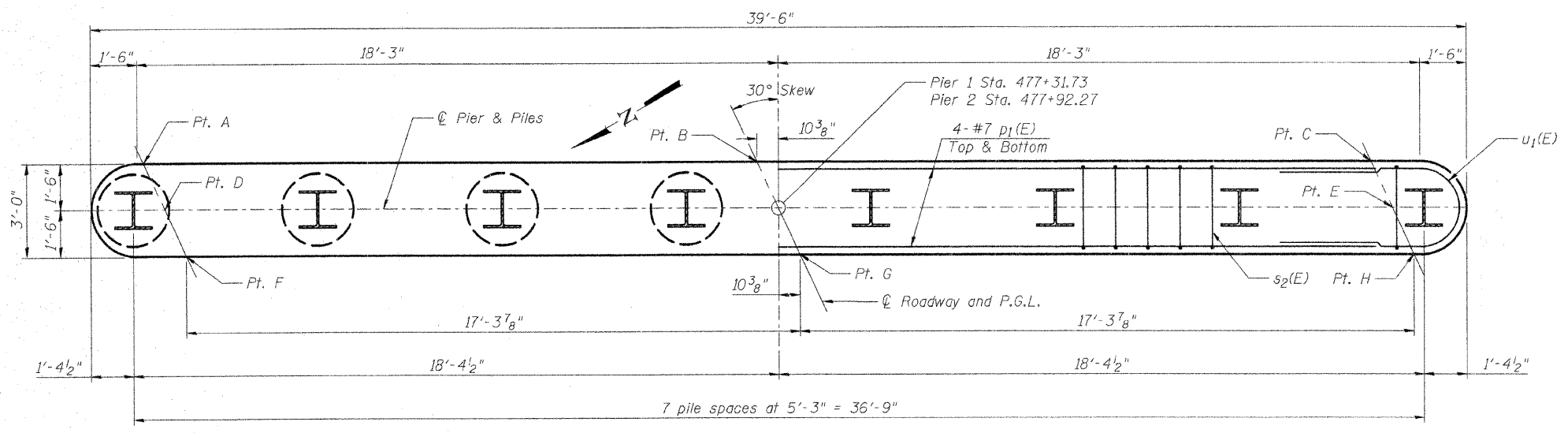
PILE DATA

Type: Steel HP 10x42**
Nominal Required Bearing: 335 Kips
Allowable Resistance Available: 97 Kips (W. Abut.), 92 Kips (E. Abut.)
Est. Length: 75' (W. Abut.), 66' (E. Abut.)
No. Production Piles: 12 (6 at each abutment)
No. Test Piles: 2 (One per abutment)

** Piles shall be driven through 2'-0" diameter percored holes extending to natural groundline according to Article 512.09(C) of the Standard Specifications. Cost included in Driving Piles.



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 LAYOUT
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 01/30/08
 01/30/08



PLAN

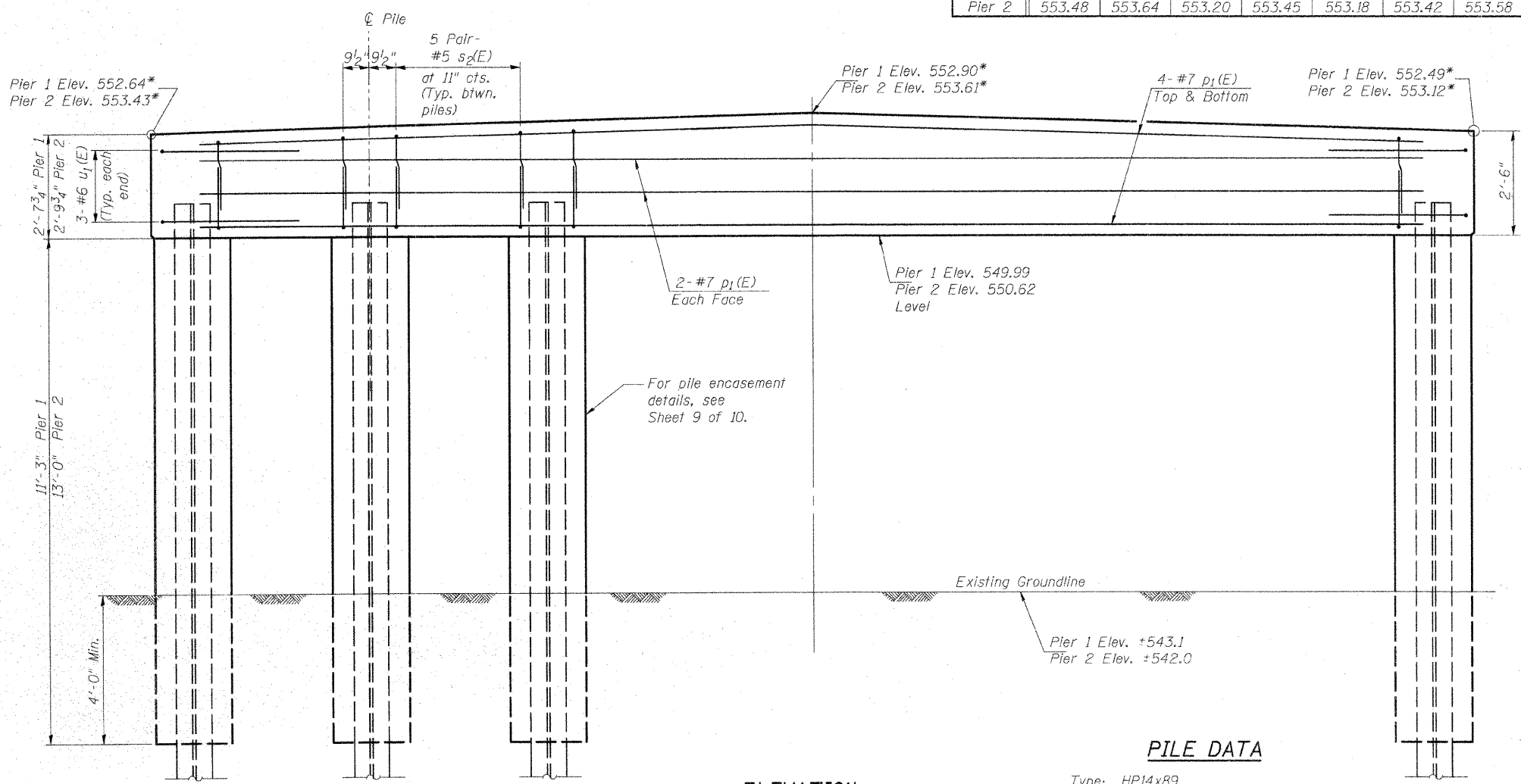
MIN. BAR LAP
#5 - 1'-8"

BILL OF MATERIAL FOR TWO PIERS

Bar	No.	Size	Length	Shape
p ₁ (E)	24	#7	36'-4"	—
s ₂ (E)	140	#5	7'-0"	□
u ₁ (E)	12	#6	9'-11"	⊔
Reinforcement Bars, Epoxy Coated			Pound	2980
Concrete Structures			Cu. Yd.	24
Concrete Encasement			Cu. Yd.	35.3
Furnishing Steel Pile, HP14x89			Foot	952
Driving Piles			Foot	952
Test Pile, Steel HP 14x89			Each	2

TABLE OF ELEVATIONS

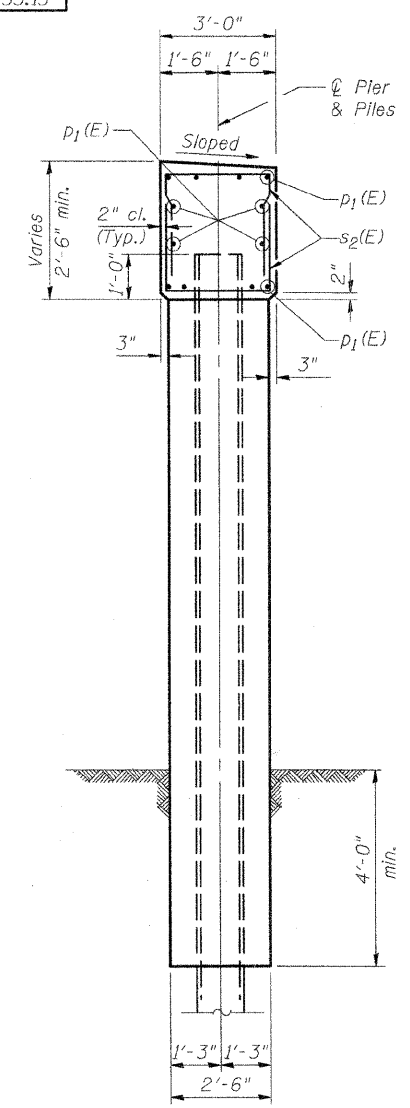
	Pt. A	Pt. B	Pt. C	Pt. D	Pt. E	Pt. F	Pt. G	Pt. H
Pier 1	552.68	552.91	552.55	552.67	552.54	552.65	552.89	552.53
Pier 2	553.48	553.64	553.20	553.45	553.18	553.42	553.58	553.15



ELEVATION
(Looking East)
*At ϕ of Pier

PILE DATA

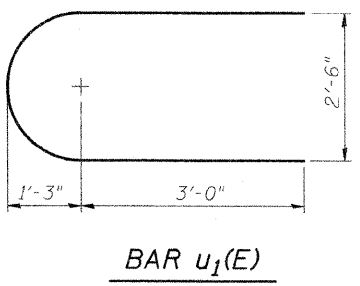
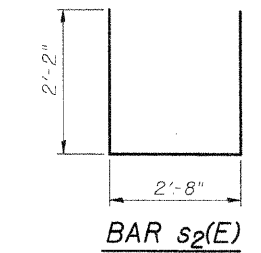
Type: HP14x89
Nominal Required Bearing: 450K
Allowable Resistance Available: 140K
Est. Length: 70 ft. Pier 1, 66 ft. Pier 2
No. Production Piles: 14 (7 at each pier)
No. Test Piles: 2 (One at each Pier)
Min. Tip Elev. 505.00



SECTION THRU PIER
(Looking South)

NOTES:

See Sheet 9 of 10 for Pile Details.
Space cap reinforcement to miss Dowel Rods.



PILE BENT PIER DETAILS
F.A.S. 662 (TR 61) EMBARRAS RIVER OVERFLOW STRUCTURE
CUMBERLAND COUNTY
SECTION 01-00061-00-BR
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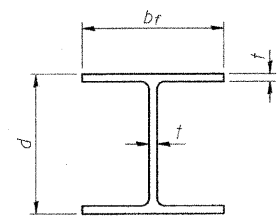
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Hanson Professional Services Inc.

JOB NO. 01S2021B
DATE 02/04/08

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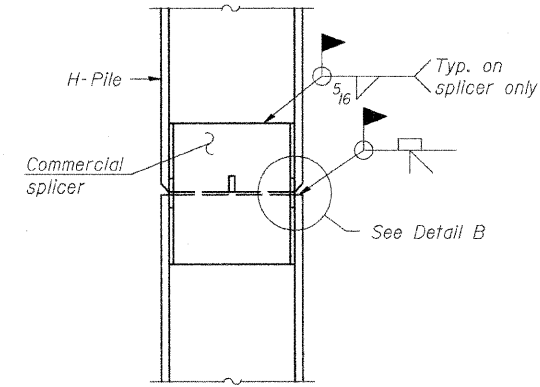
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REVIEWED	MM	01/30/08

*Section 01-00061-00-BR Contract #95552

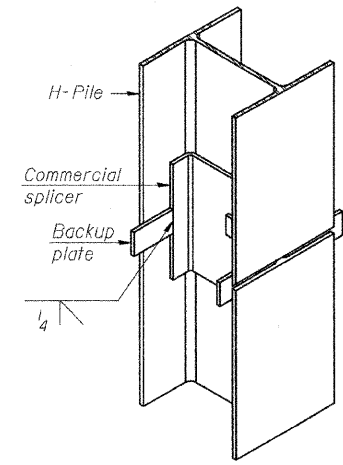


STEEL PILE TABLE

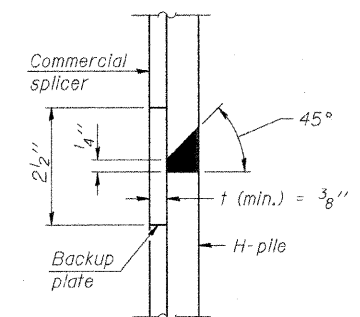
Designation	Depth d	Flange width b _f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53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

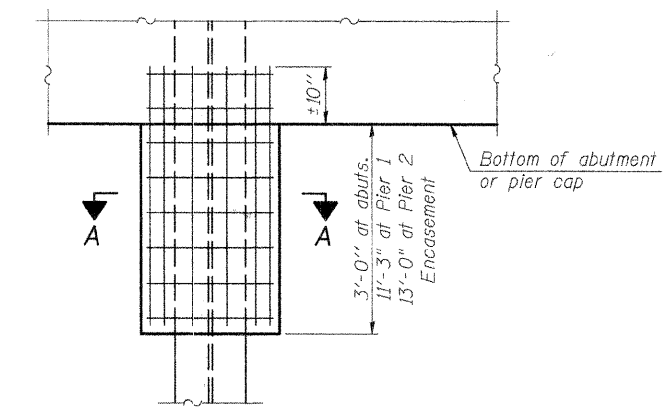


ISOMETRIC VIEW



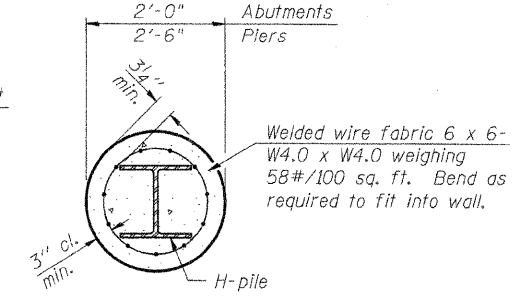
DETAIL "B"

WELDED COMMERCIAL SPLICE



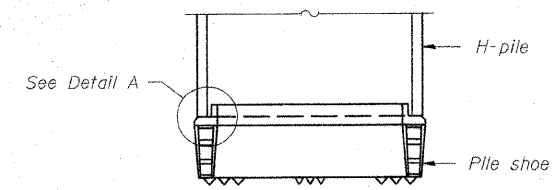
ELEVATION

PILE ENCASEMENT



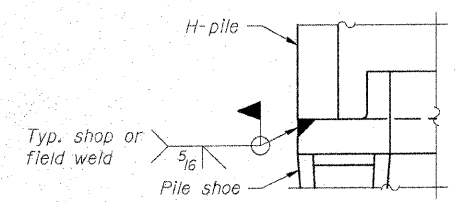
SECTION A-A

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

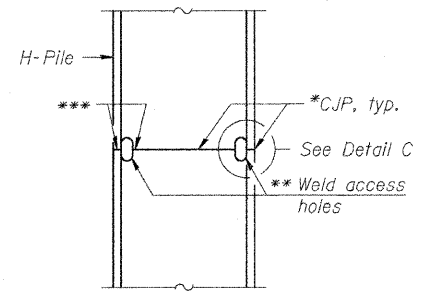


ELEVATION

H-PILE SHOE ATTACHMENT

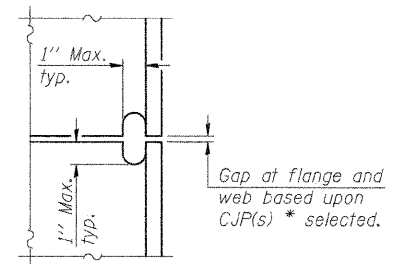


DETAIL A

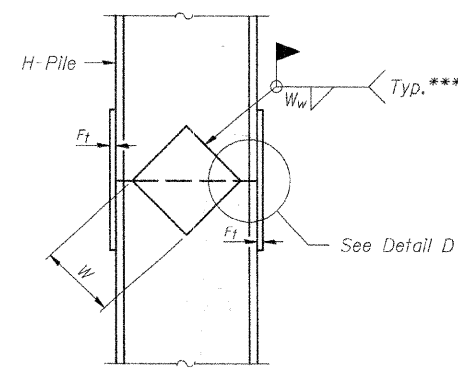


ELEVATION

COMPLETE PENETRATION WELD SPLICE

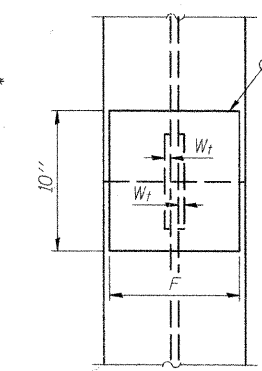


DETAIL C

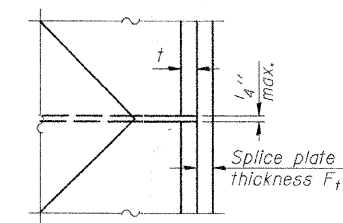


ELEVATION

WELDED PLATE FIELD SPLICE



END VIEW



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"	1/16"	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"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	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"

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

- * 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.

STEEL H-PILE DETAILS
 F.A.S. 662 (TR 61) EMBARRAS RIVER OVERFLOW STRUCTURE
 CUMBERLAND COUNTY
 SECTION 01-00061-00-BR
 STA. 477+62
 STRUCTURE NUMBER 018-3194
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DATE 02/04/08

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LAYOUT	MM	11/16/07
DRAWN	MM	01/20/08
REVIEWED	MM	01/20/08

NO.	DATE	BY

NO.	DATE	BY

DATE	BY
10/10/07	DJP/MNM
10/10/07	DJP
02/04/08	JMM

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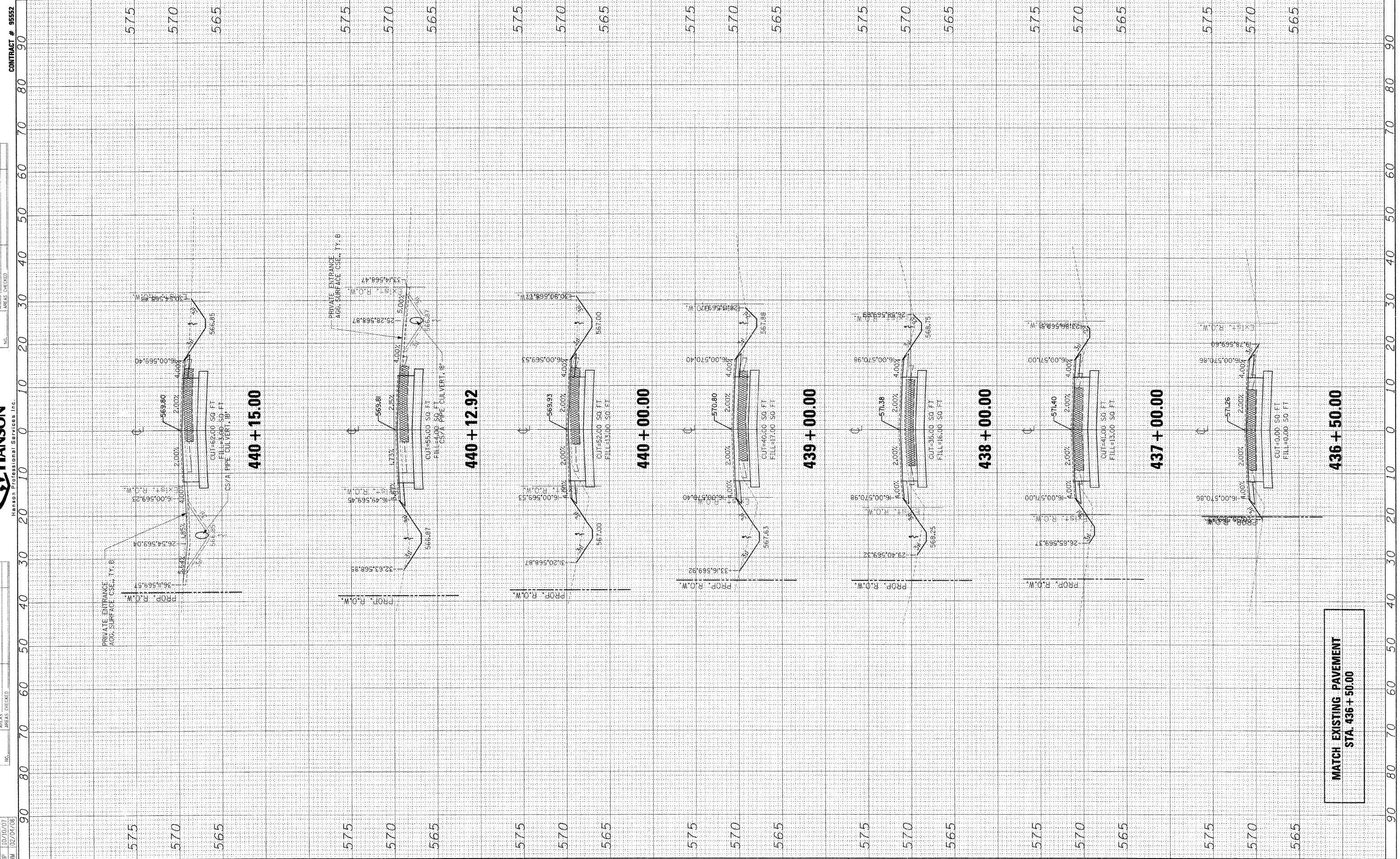
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 REVISED -
 DRAWN - DJP
 REVISED -
 CHECKED - MNM
 REVISED -
 DATE - 10/10/07
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - MAINLINE

SCALE: SHEET NO. 1 OF 16 SHEETS STA. 436+50.00 TO STA. 440+15.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	00-00061-00-BR	CUMBERLAND	85	67
CONTRACT NO. 95552				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



MATCH EXISTING PAVEMENT
 STA. 436 + 50.00

CONTRACT # 95552

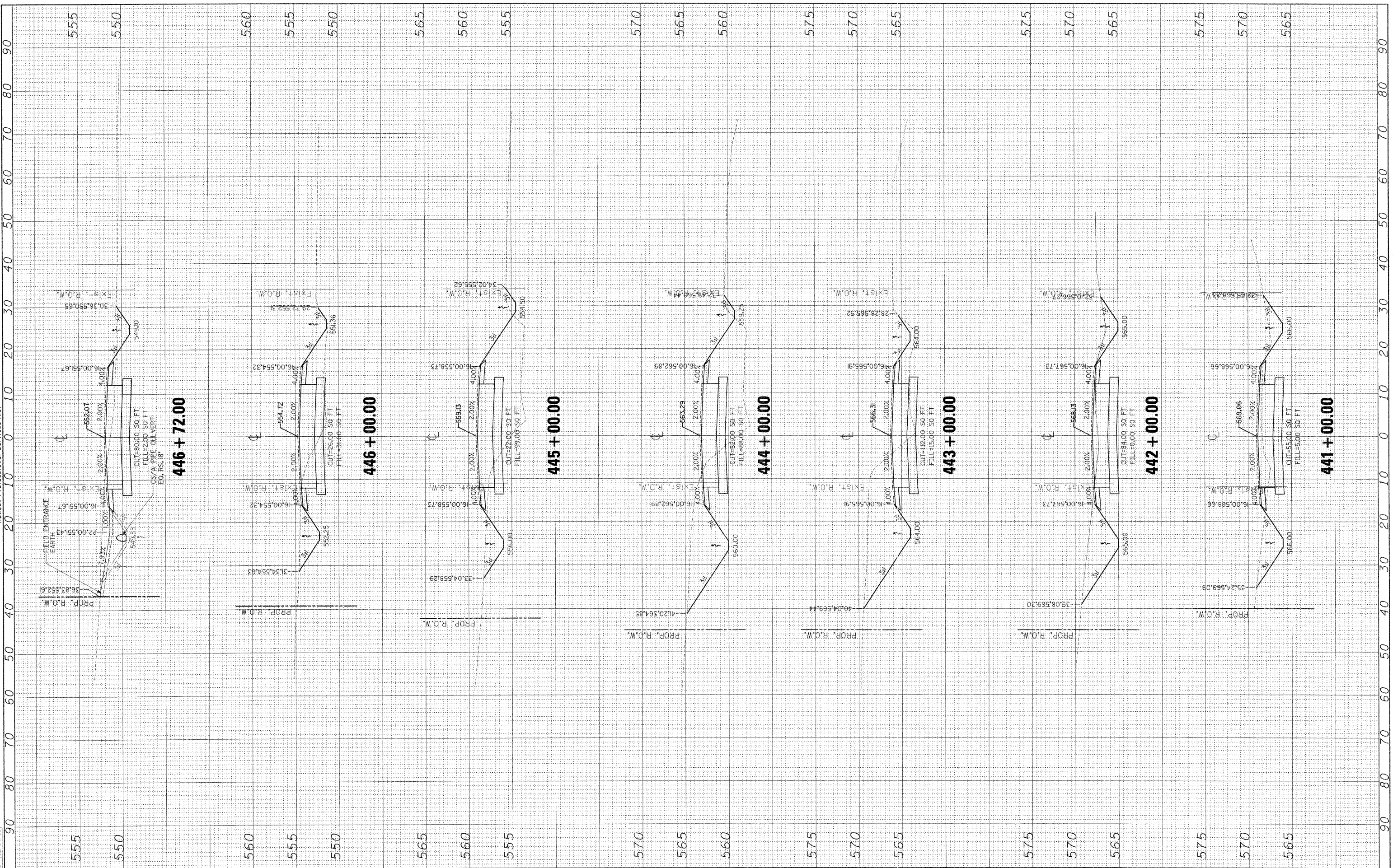
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AREAS CHECKED		
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ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
NO.		

LAYOUT	DJP/MNM	10/10/07
DRAWN	DJP	10/10/07
REVIEWED	JMM	02/07/08

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CONTRACT # 95552



FILE NAME = T:\01\jobs\01s222\B\CADD\Road\Sheets\VC-301.dgn

USER NAME =	Pop00275
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DRAWN -	DJP
CHECKED -	MNM
DATE -	10/10/07

REVISED -	
REVISED -	
REVISED -	
REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET NO. 2 OF 16 SHEETS	STA. 441+00.00 TO STA. 446+72.00
--------	--------------------------	----------------------------------

CROSS SECTIONS - MAINLINE

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	00-00061-00-BR	CUMBERLAND	85	68
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 95552				

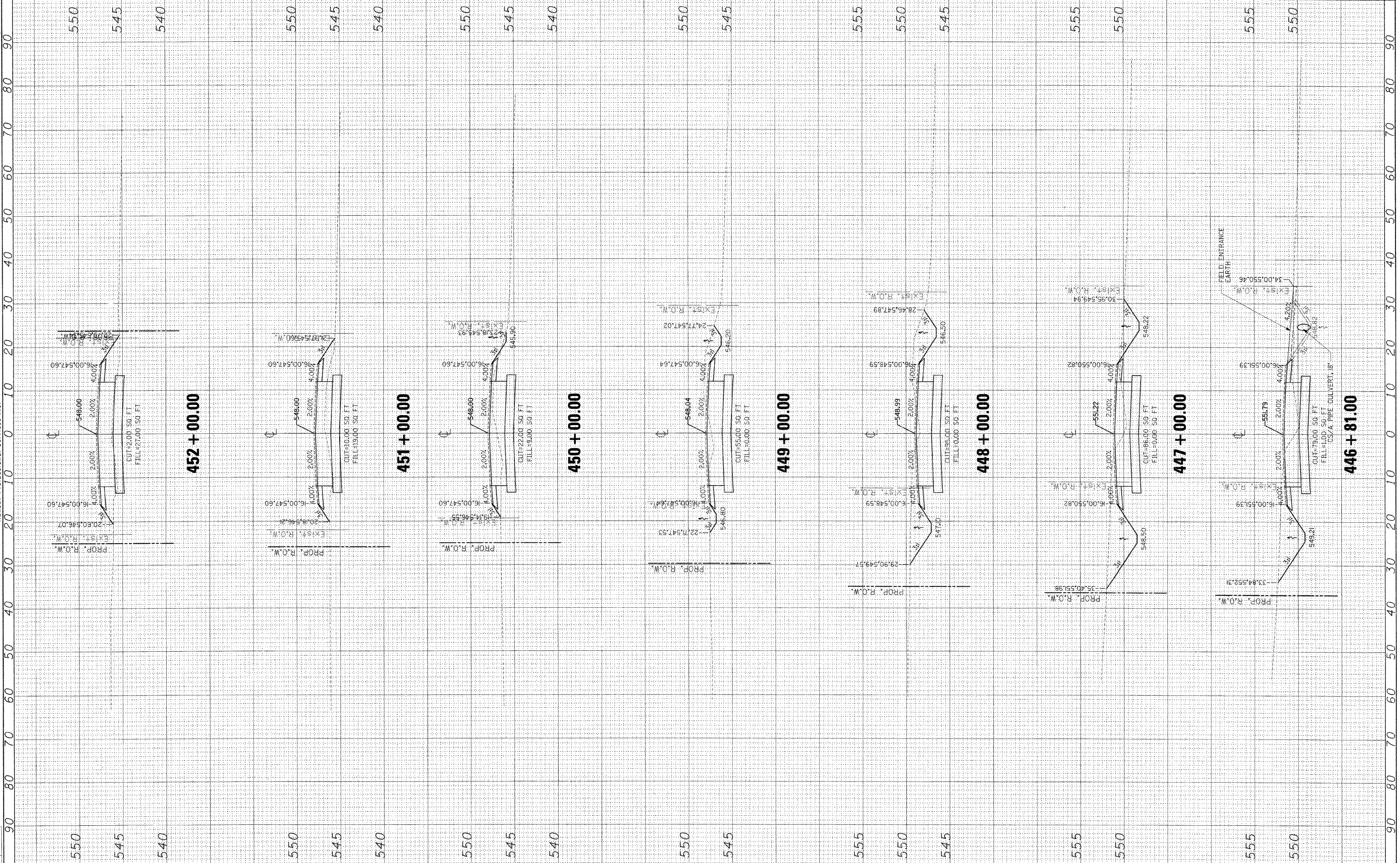
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PLOTTED		
NOTE BOOK		
AREAS CHECKED		
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FINAL SURVEY	BY	DATE
NOTE BOOK		
AREAS CHECKED		
NO.		

LAYOUT	DJP/MMM	10/10/07
DRAWN	DJP	10/10/07
REVIEWED	JMM	02/04/08



CONTRACT # 95552



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 DRAWN - DJP
 CHECKED - MNM
 DATE - 10/10/07

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - MAINLINE
 SCALE: SHEET NO. 3 OF 16 SHEETS STA. 446+81.00 TO STA. 452+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	00-00061-00-BR	CUMBERLAND	85	69
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 95552	

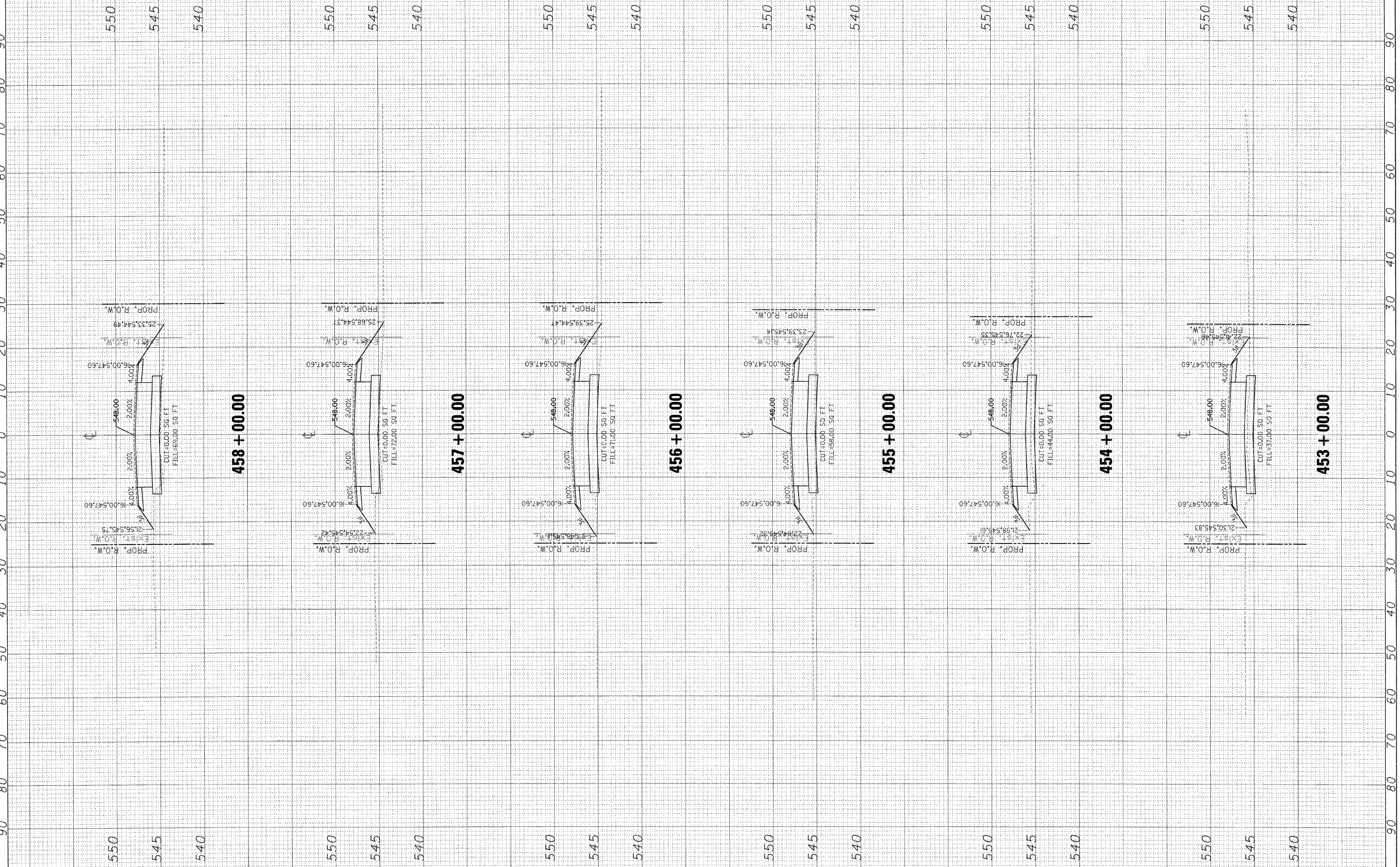
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SURVEYED		
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NOTE BOOK		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
FLIGHT		
NOTE BOOK		
AREAS CHECKED		
NO.		

LAYOUT	DJP/MNM	10/10/07
DRAWN	DJP	10/10/07
REVIEWED	JMM	02/04/08

CONTRACT # 9552

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DRAWN	-	DJP	REVISED	-
CHECKED	-	MNM	REVISED	-
DATE	-	10/10/07	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - MAINLINE

SCALE: SHEET NO. 4 OF 16 SHEETS STA. 453+00.00 TO STA. 458+00.00

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	00-00061-00-BR	CUMBERLAND	85	70
CONTRACT NO. 95552				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

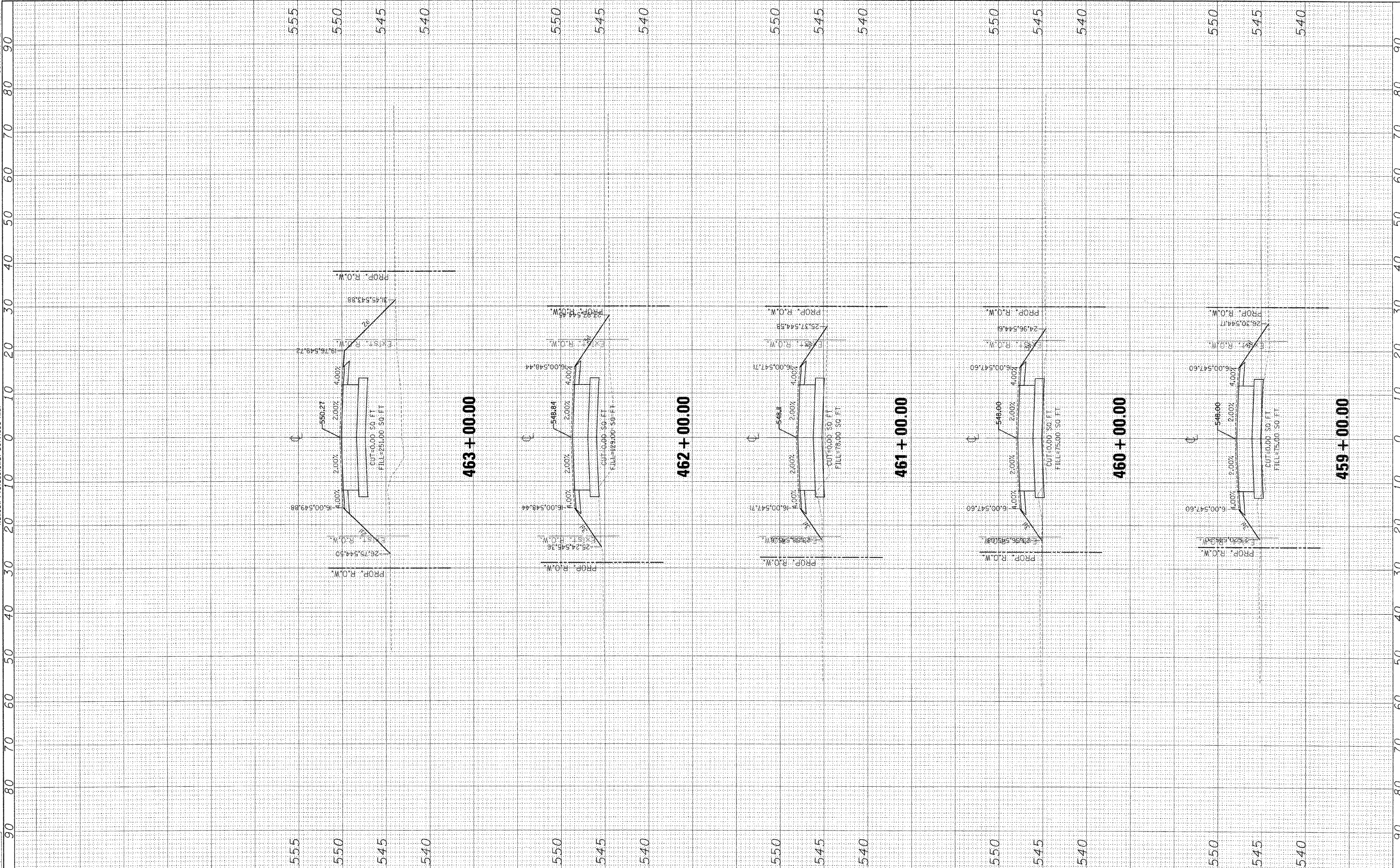
FINAL SURVEY	BY	DATE
NOTE BOOK		
NO.		

ORIGINAL SURVEY	BY	DATE
NOTE BOOK		
NO.		

LAYOUT	DJP	MM	10/10/07
DRAWN	DJP	MM	10/10/07
REVIEWED	JMM	MM	02/24/08

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FILE NAME =
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USER NAME = Pop00275
 DESIGNED - MNM/DJP
 DRAWN - DJP
 CHECKED - MNM
 DATE - 10/10/07

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - MAINLINE

SCALE: SHEET NO. 5 OF 16 SHEETS STA. 459+00.00 TO STA. 463+00.00

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	00-00061-00-BR	CUMBERLAND	85	71
FED. ROAD DIST. NO. [ILL]DOTS FED. AID PROJECT			CONTRACT NO. 95552	

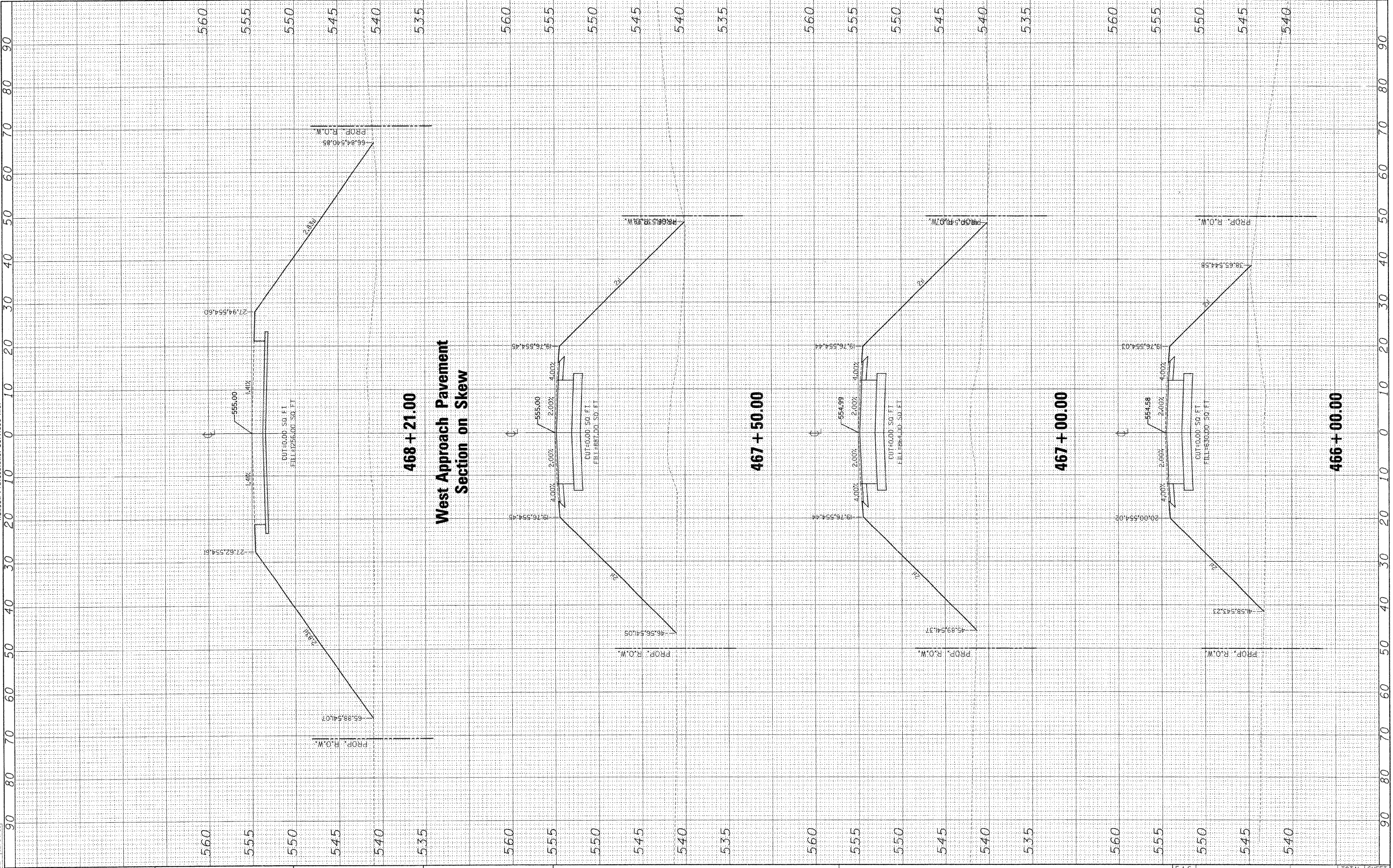
FINAL SURVEY	BY	DATE
NOTE BOOK		
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ORIGINAL SURVEY	BY	DATE
NOTE BOOK		
NO.		

LAYOUT	DJP	MNM	10/10/07
DRAWN	DJP		10/10/07
REVIEWED	JMM		02/04/08

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DESIGNED - MNM/DJP
 DRAWN - DJP
 CHECKED - MNM
 DATE - 10/10/07

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - MAINLINE
 SCALE: SHEET NO. 7 OF 16 SHEETS STA. 466+00.00 TO STA. 468+21.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	00-00061-00-BR	CUMBERLAND	85	73
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. S5552	

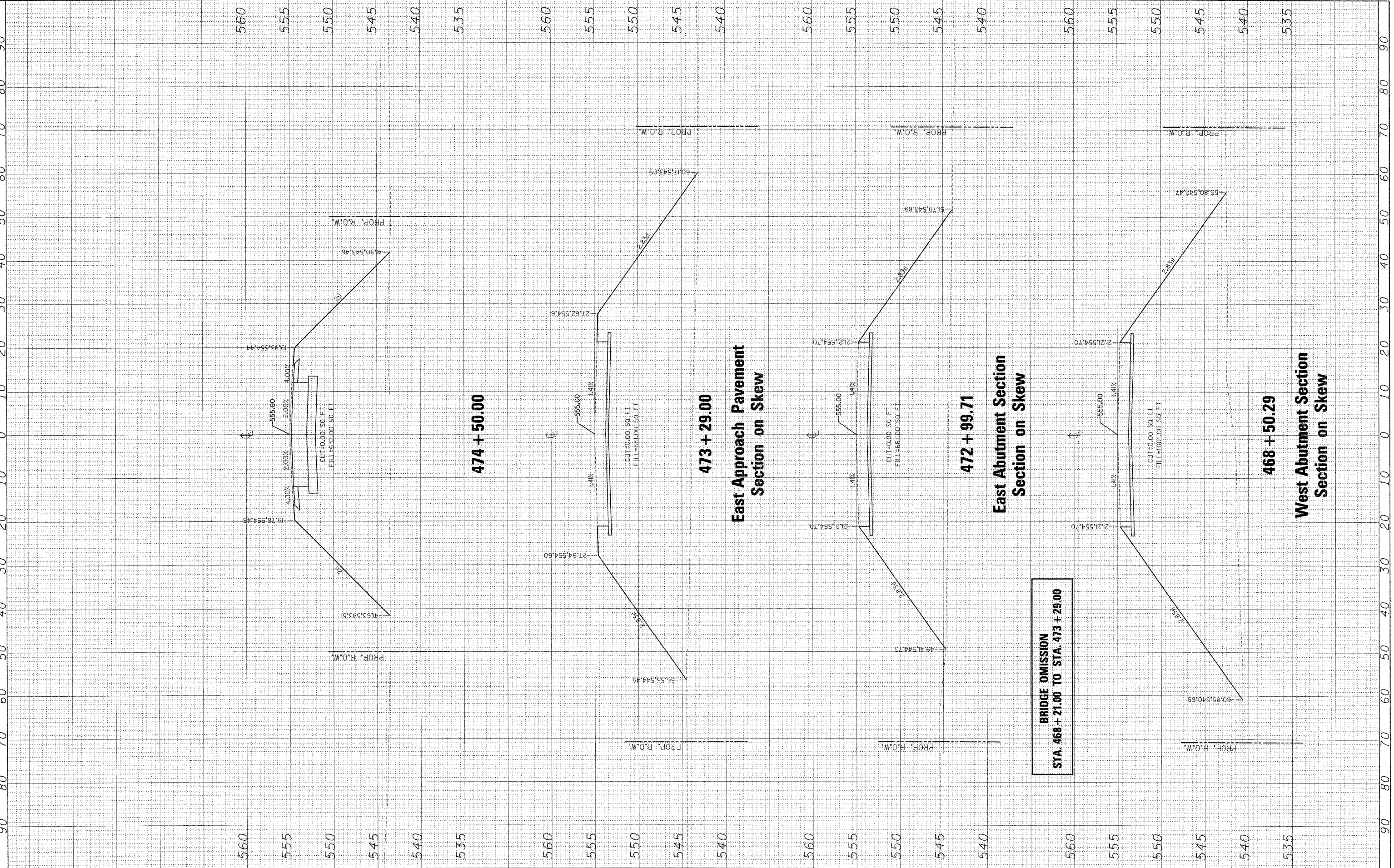
FINAL SURVEY	BY	DATE
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VIEWED		
NOTE BOOK		
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LAYOUT	DJP/MMM	10/10/07
DRAWN	DJP	10/10/07
REVIEWED	JMM	02/04/08



CONTRACT # 95552



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 DRAWN - DJP
 CHECKED - MNM
 DATE - 10/10/07

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - MAINLINE

SCALE: SHEET NO. 8 OF 16 SHEETS STA. 468+50.29 TO STA. 474+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	00-00061-00-BR	CUMBERLAND	85	74
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 95552	

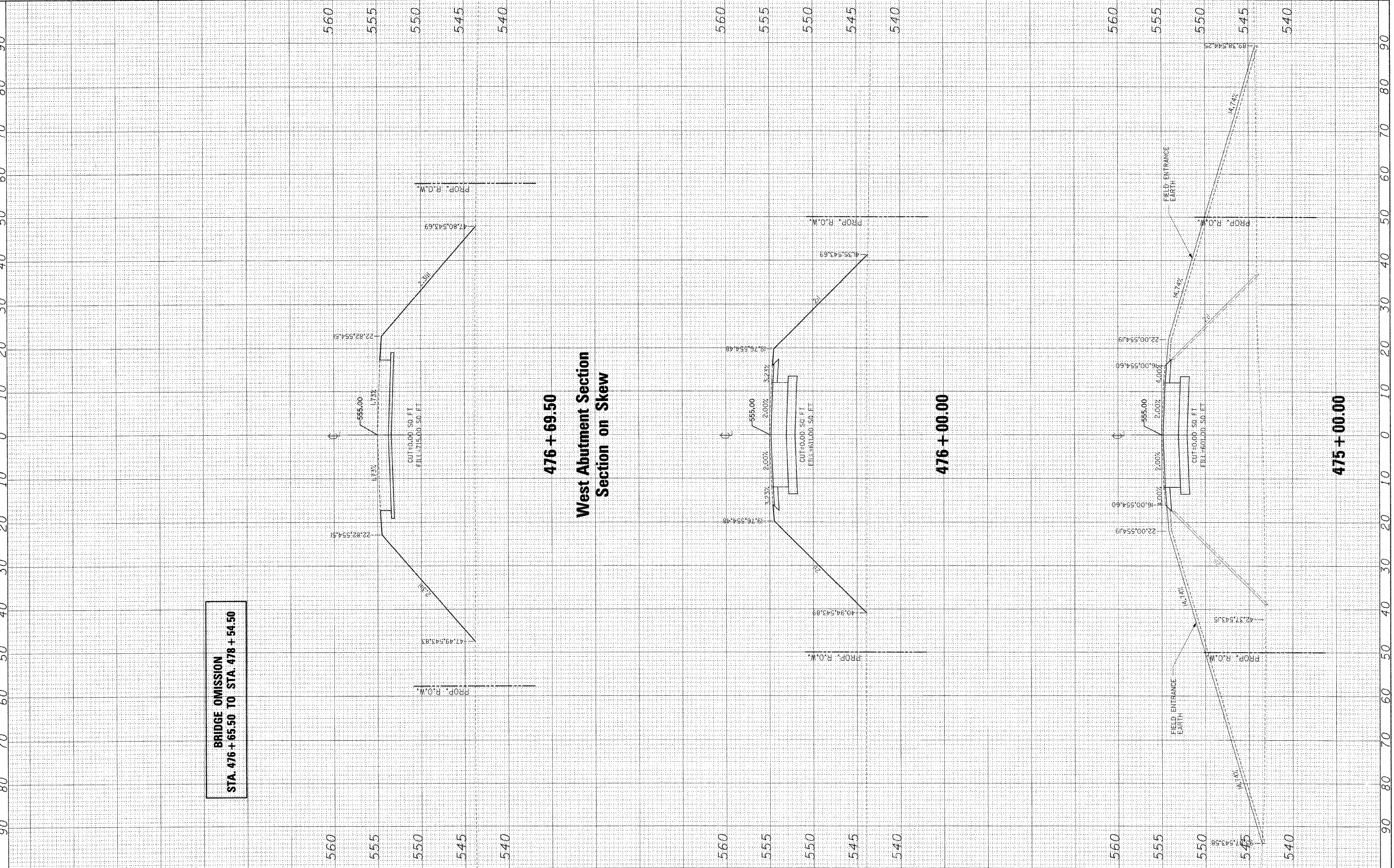
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NOTE BOOK	PLOTTED		
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NOTE BOOK	PLOTTED		
NO.	AREAS CHECKED		

LAYOUT	DATE
DRAWN	10/10/07
REVIEWED	07/04/08

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**BRIDGE OMISSION
 STA. 476 + 65.50 TO STA. 478 + 54.50**

476 + 69.50
West Abutment Section
Section on Skew

476 + 00.00

475 + 00.00

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 CHECKED - MNM
 DATE - 10/10/07

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - MAINLINE

SCALE: SHEET NO. 9 OF 16 SHEETS STA. 475+00.00 TO STA. 476+69.50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	00-00061-00-BR	CUMBERLAND	85	75
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 95552				

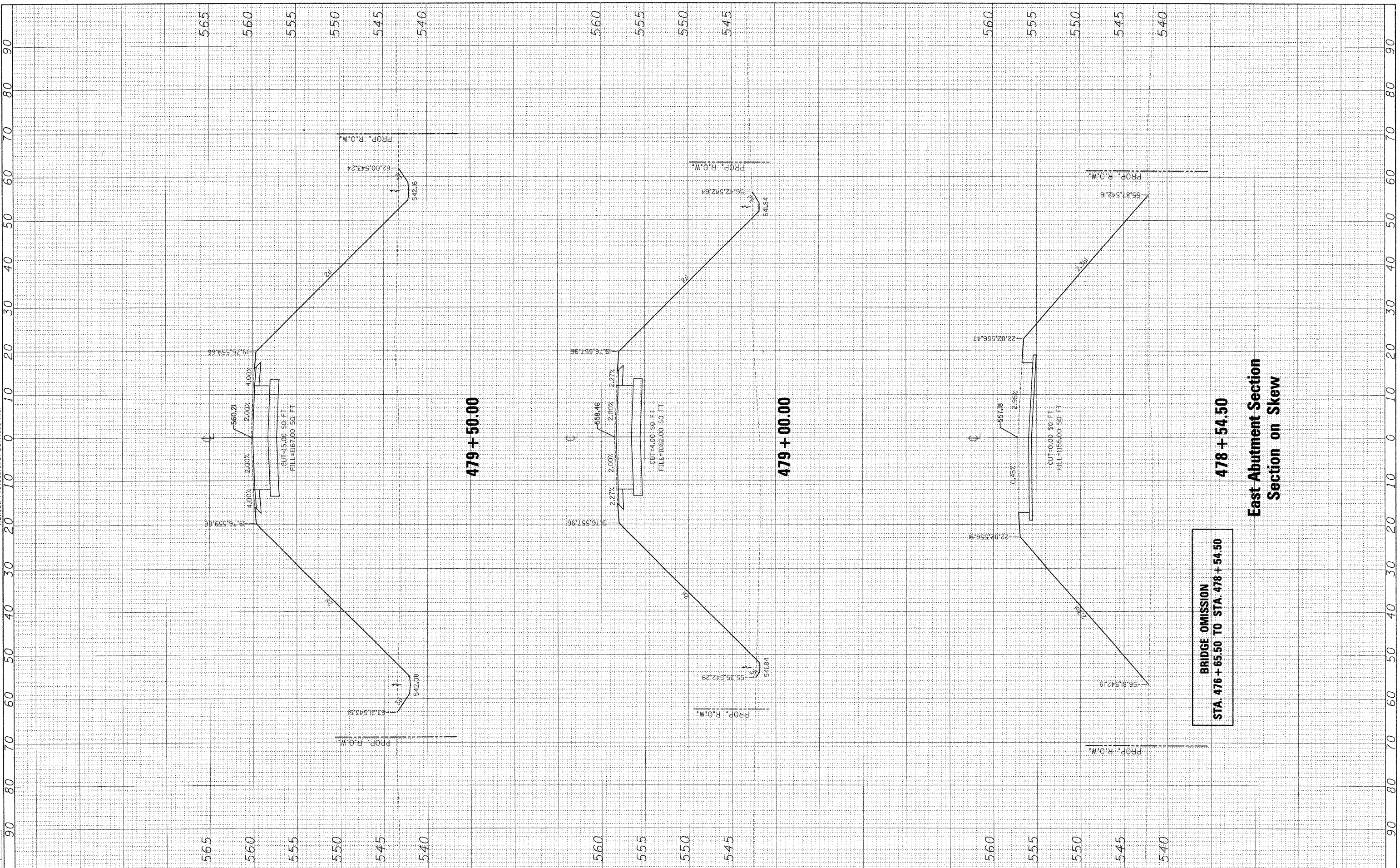
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SURVEYED	BY
PLOTTED	DATE
NOTE BOOK	NO.
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ORIGINAL SURVEY	DATE
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PLOTTED	DATE
NOTE BOOK	NO.
AREAS CHECKED	

LAYOUT	DJP/MNM	10/10/07
DRAWN	DJP	10/10/07
REVIEWED	MNM	02/04/08

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CONTRACT # 95552



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 CHECKED - MNM
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REVISED -
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 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - MAINLINE
 SCALE: SHEET NO. 10 OF 16 SHEETS STA. 478+54.50 TO STA. 479+50.00

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	00-00061-00-BR	CUMBERLAND	85	76
CONTRACT NO. 95552				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

BRIDGE OMISSION
STA. 476 + 65.50 TO STA. 478 + 54.50

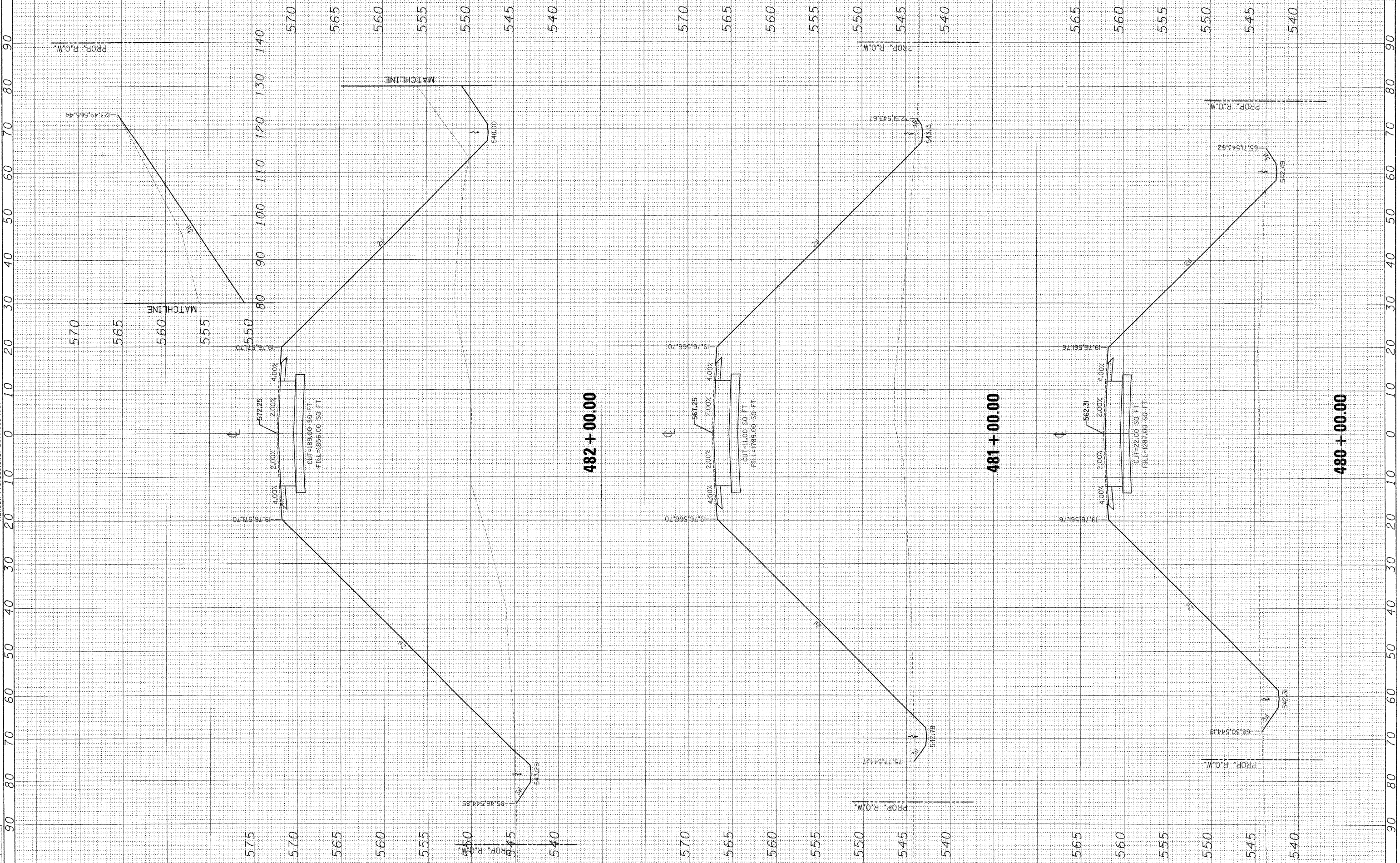
478 + 54.50
East Abutment Section
Section on Skew

FINAL SURVEY
 SU EYED
 PLOTTED
 NOTE BOOK
 NO.

ORIGINAL SURVEY
 PLOTTED
 NOTE BOOK
 NO.

LAYOUT
 DRAWN
 REVIEWED

CONTRACT # 95552



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 CHECKED - MNM
 DATE - 10/10/07

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - MAINLINE

SCALE: SHEET NO. 11 OF 16 SHEETS STA. 480+00.00 TO STA. 482+00.00

F.A.S. RTE. 662	SECTION 00-00061-00-BR	COUNTY CUMBERLAND	TOTAL SHEETS 85	SHEET NO. 77
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

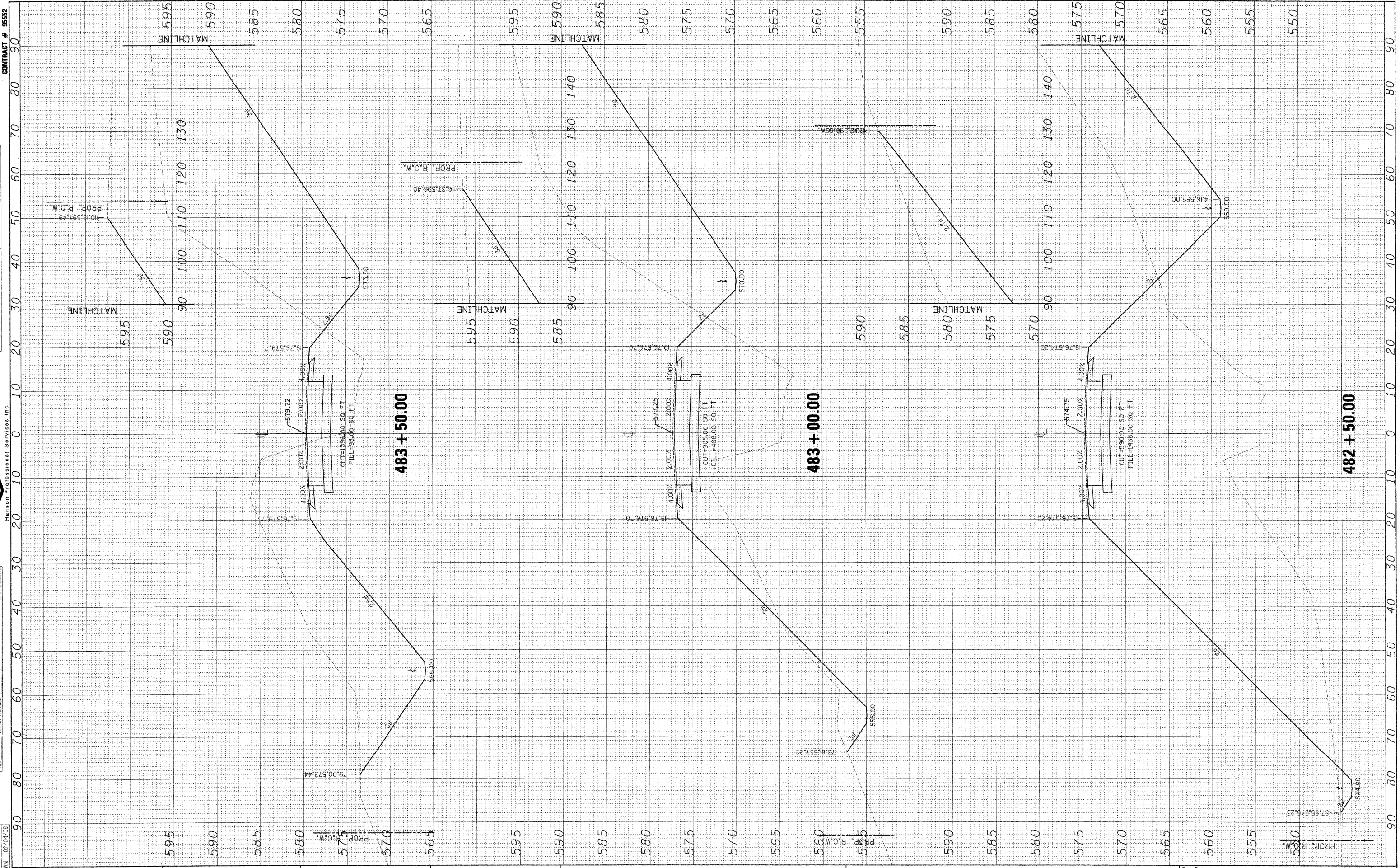
CONTRACT NO. 95552

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NOTE BOOK	PLOTTED		
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	AREAS CHECKED		

LAYOUT	DJP/MNM	10/10/07
DRAWN	DJP	10/10/07
REVIEWED	JMM	02/04/08

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 CHECKED - MNM
 DATE - 10/10/07

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - MAINLINE
 SCALE: SHEET NO. 12 OF 16 SHEETS STA. 482+50.00 TO STA. 483+50.00

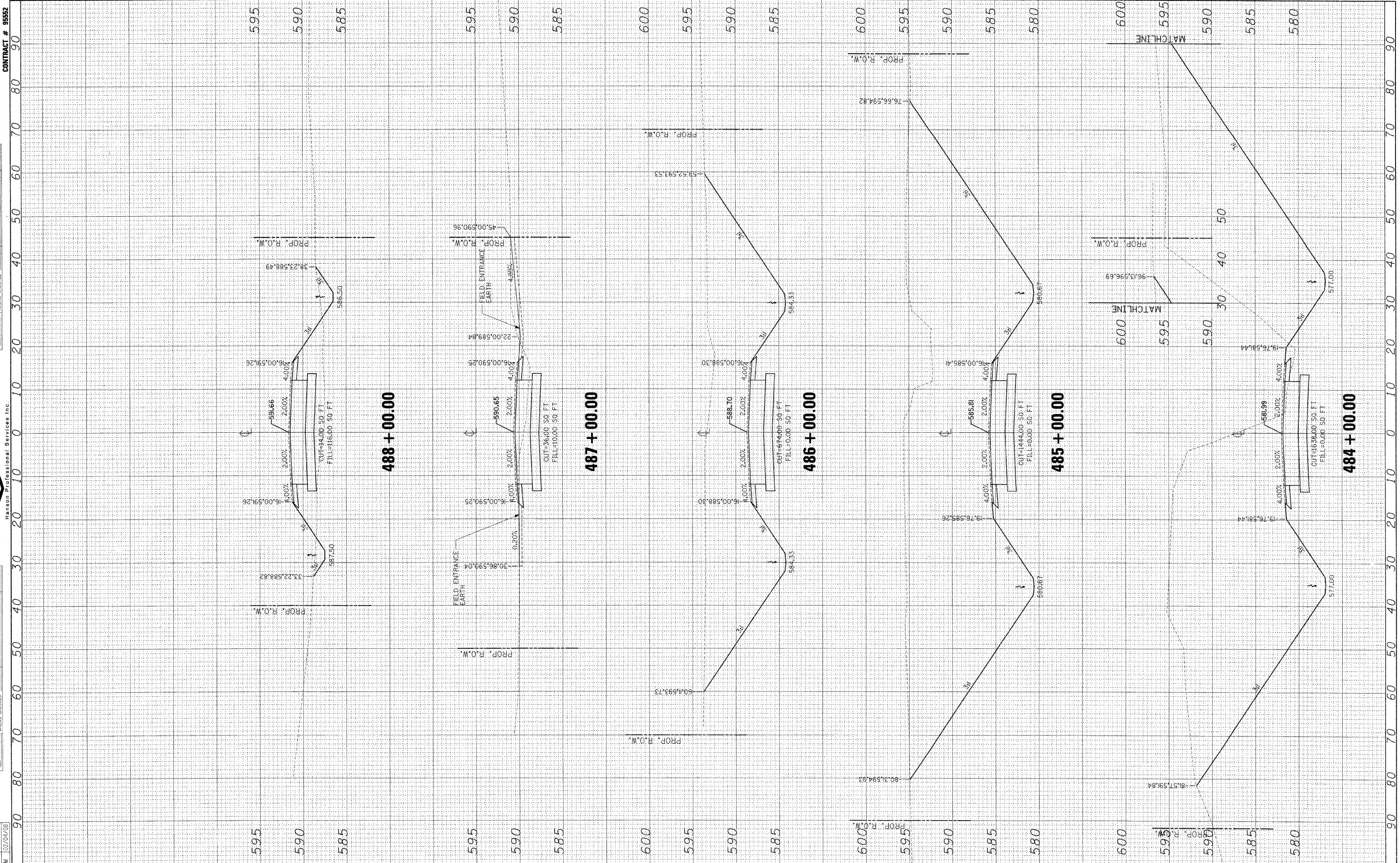
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FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 95552				

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

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

LAYOUT	DUP/MMN	10/10/07
DRAWN	DJP	10/10/07
REVIEWED	JMM	02/07/08

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USER NAME = Pop00275
 DESIGNED - MNM/DJP
 DRAWN - DJP
 CHECKED - MNM
 DATE - 10/10/07

REVISIONS
 REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - MAINLINE

SCALE: SHEET NO. 13 OF 16 SHEETS STA. 484+00.00 TO STA. 488+00.00

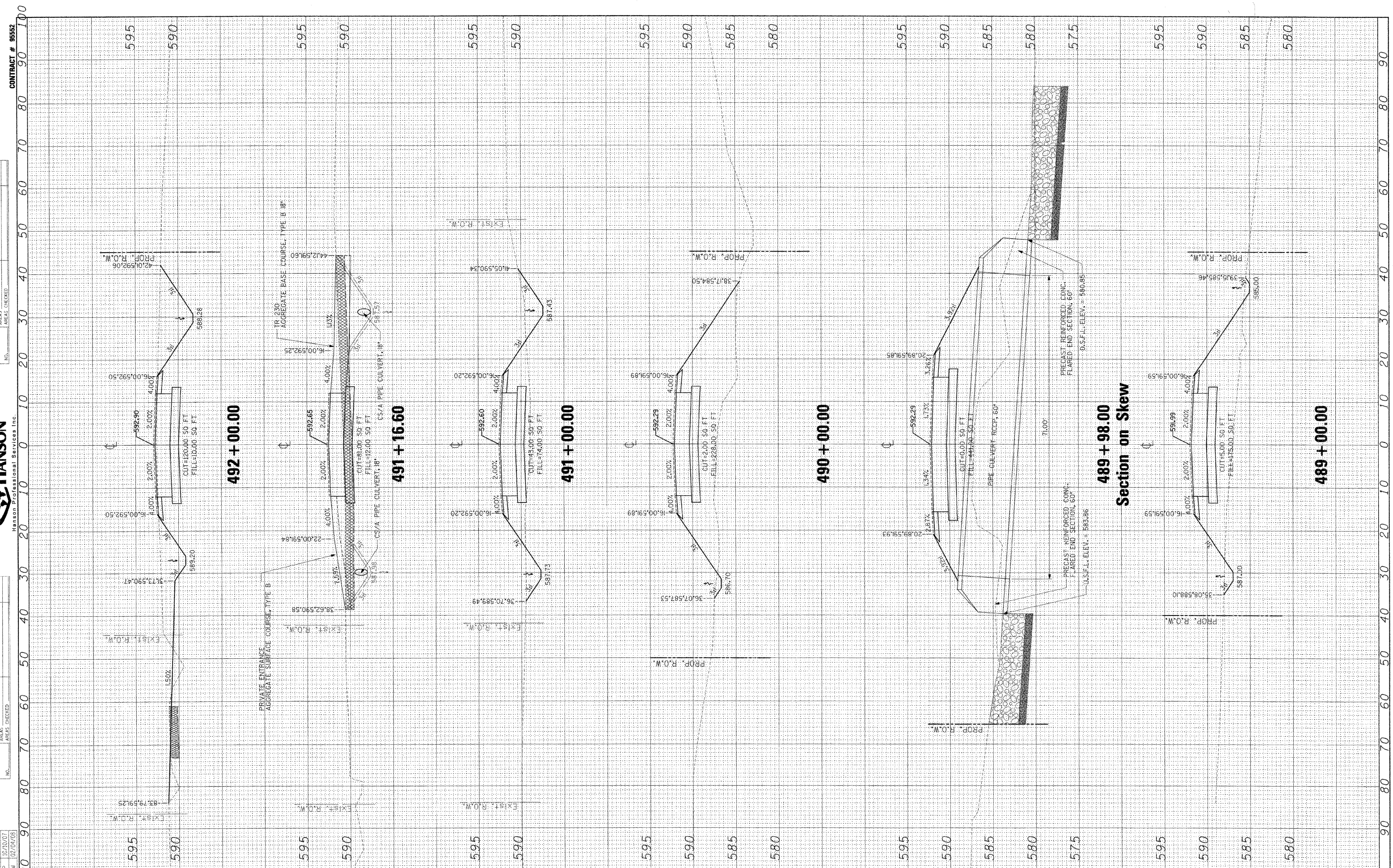
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CONTRACT NO. 95552				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY	BY	DATE
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
NO.		

ORIGINAL SURV.	DATE
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

LAYOUT	DJP/AMM	10/10/07
DRAWN	DJP	10/10/07
REVIEWED	JMM	02/08/08

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USER NAME =	Pop02275
DESIGNED -	MNM/DJP
DRAWN -	DJP
CHECKED -	MNM
DATE -	10/10/07
REVISIONS	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - MAINLINE

SCALE: SHEET NO. 14 OF 16 SHEETS STA. 489+00.00 TO STA. 492+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	00-00061-00-BR	CUMBERLAND	85	30
CONTRACT NO. 95552				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

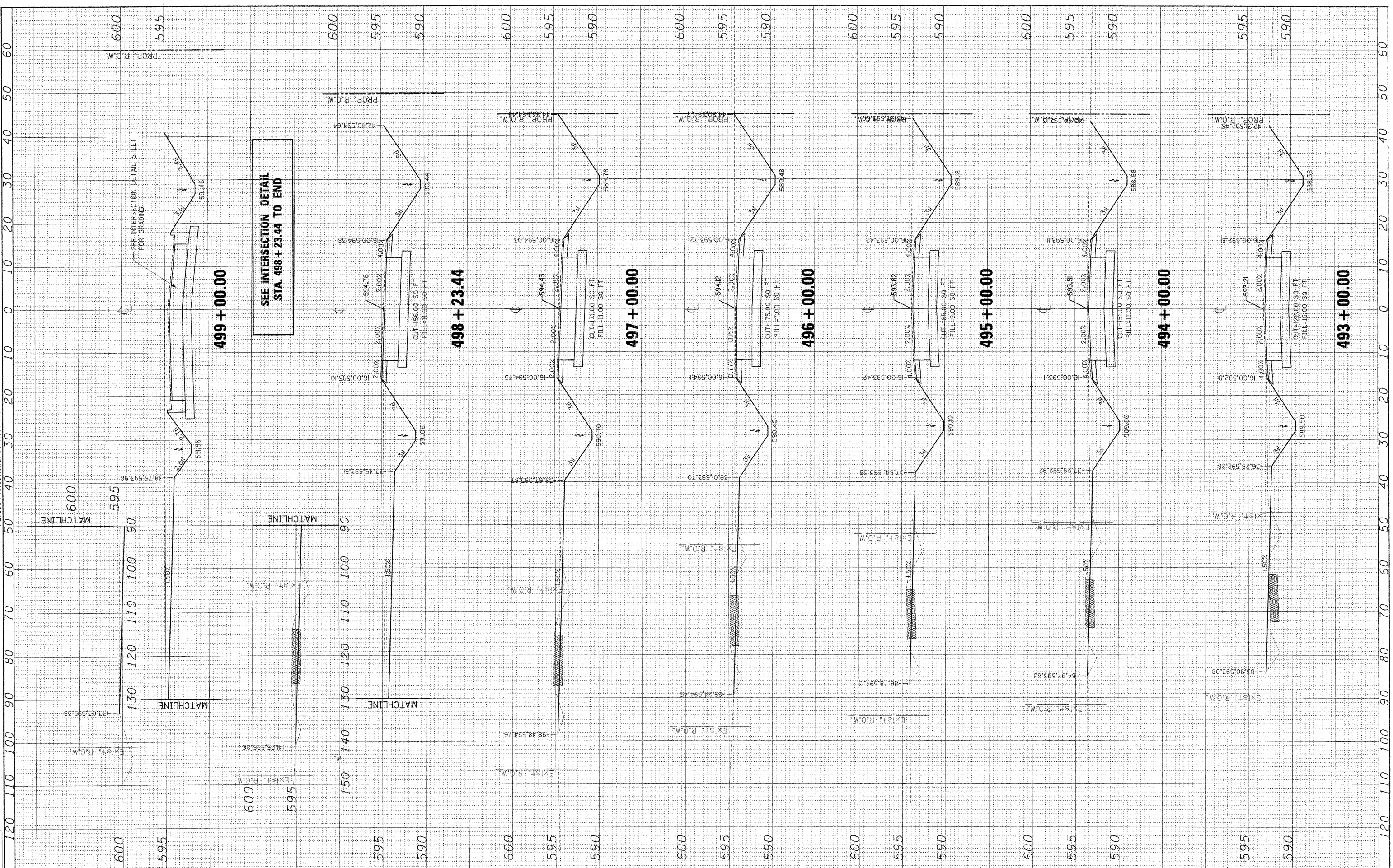
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NOTE BOOK	
AREAS CHECKED	

LAYOUT	DJP	MM	10/10/07
DRAWN	DJP		10/10/07
REVIEWED	JWM		02/04/08

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DESIGNED - MNM/DJP
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

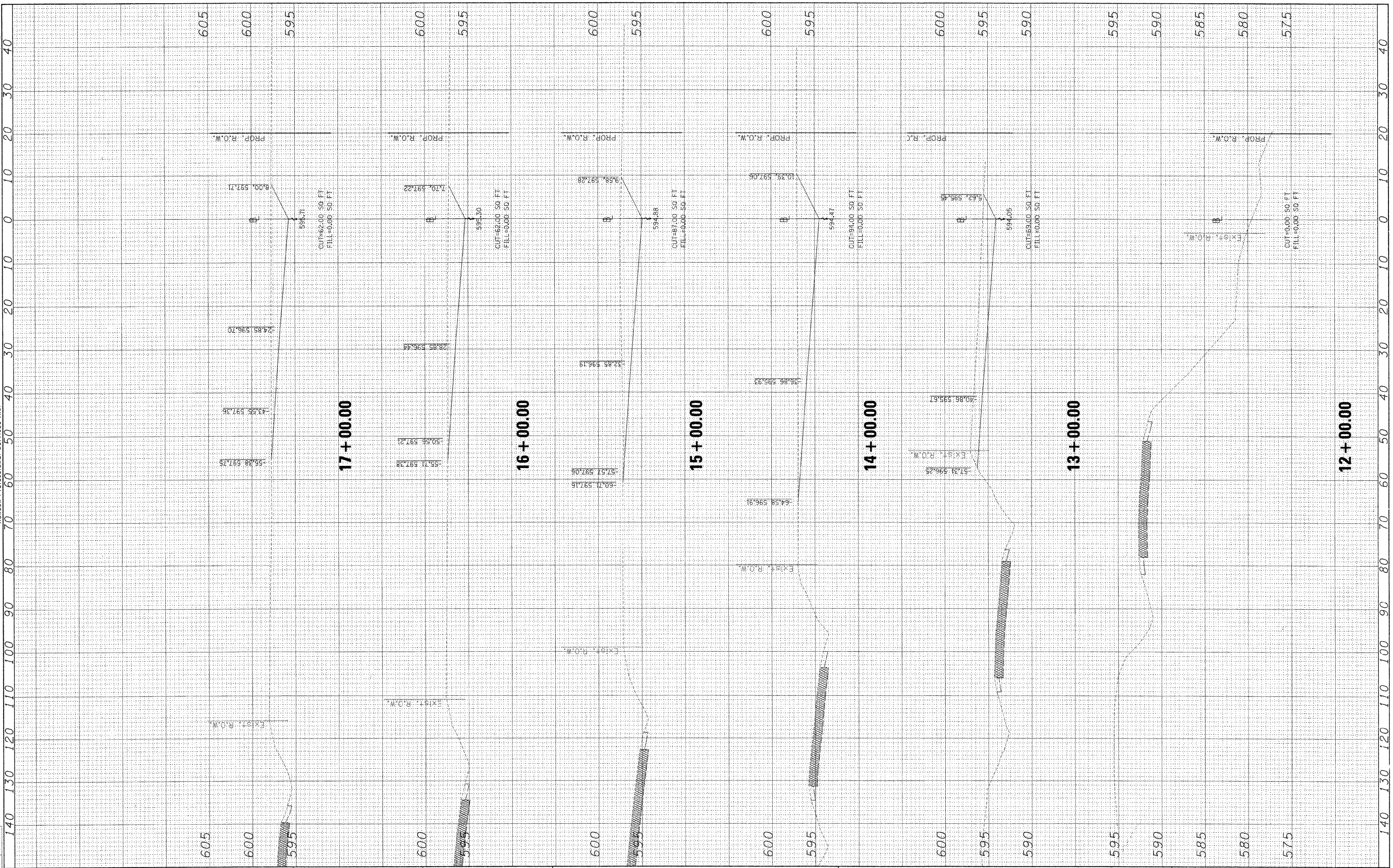
CROSS SECTIONS - MAINLINE
 SCALE: SHEET NO. 15 OF 16 SHEETS STA. 493+00.00 TO STA. 499+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	00-00061-00-BR	CUMBERLAND	85	81
CONTRACT NO. 95552				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTED BOOK	PLOTTED		
AREAS CHECKED	AREAS CHECKED		
NO.	NO.		

LAYOUT	DJP	MM	10/10/07
DRAWN	DJP		10/10/07
REVIEWED	JWM		02/01/08

CONTRACT # 9552



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DRAWN	-	REVISED	-
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DATE	-	REVISED	-

PLOT SCALE	= 1/4" = 1' IN.
PLOT DATE	= 04/04/2008, 10:59 AM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - NORTH GRADING
 SCALE: SHEET NO. 1 OF 2 SHEETS STA. 12+00.00 TO STA. 17+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 9552				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

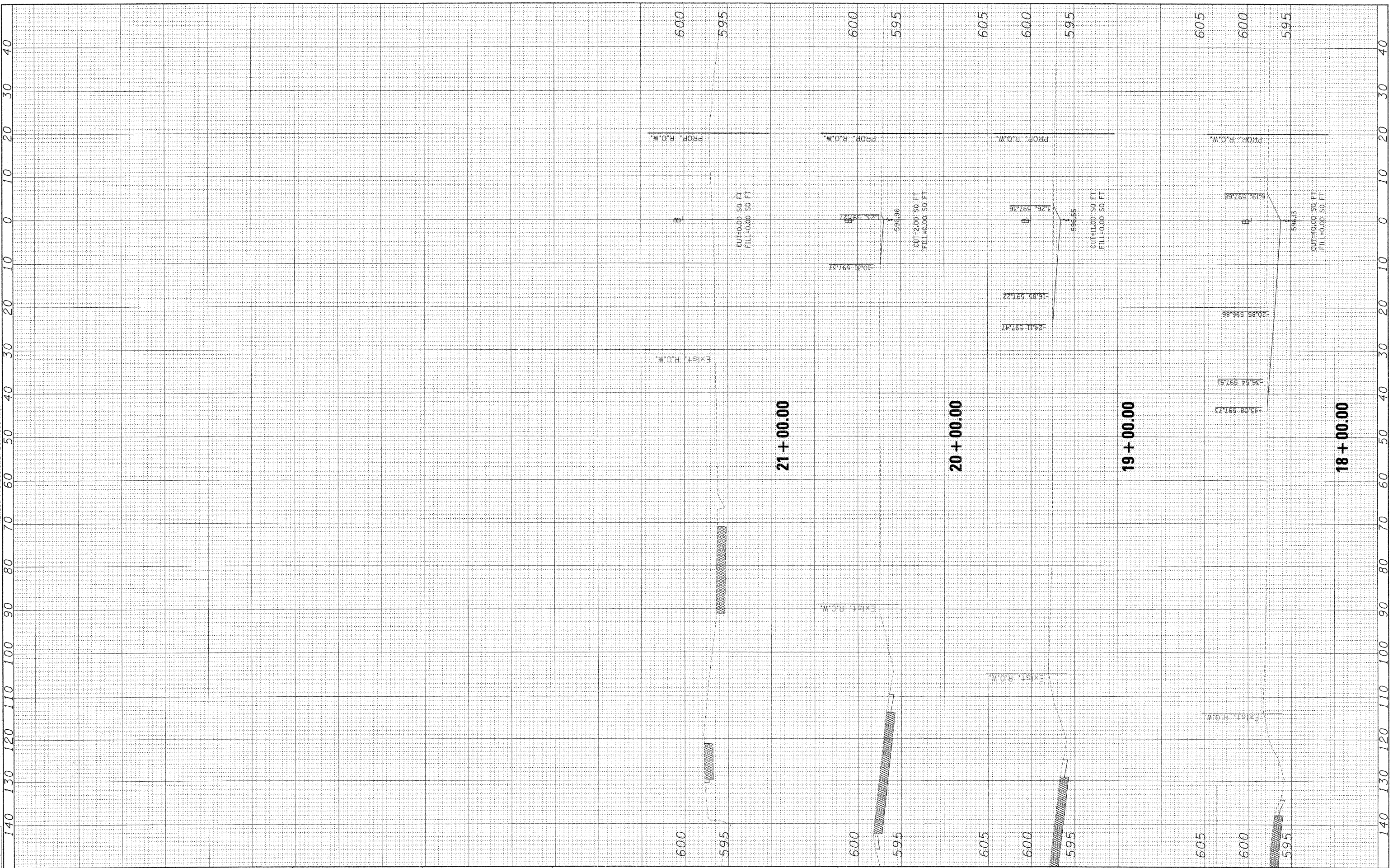
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 SURVEYED FOR
 NOTE BOOK NO.
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ORIGINAL SURVEY BY DA
 SURVEYED FOR
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 PLANNING
 AREAS CHECKED

LAYOUT D.P./J.M.W. 07/10/07
 DRAWN D.J.P. 10/10/07
 REVIEWED J.M.W. 02/04/08



CONTRACT # 9552



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DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - NORTH GRADING

SCALE: SHEET NO. 2 OF 2 SHEETS STA. 18+00.00 TO STA. 21+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.
662	00-0061-00-BR	CUMBERLAND	85 84
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 95552

FINAL SURVEY NOTE BOOK NO. BY DATE

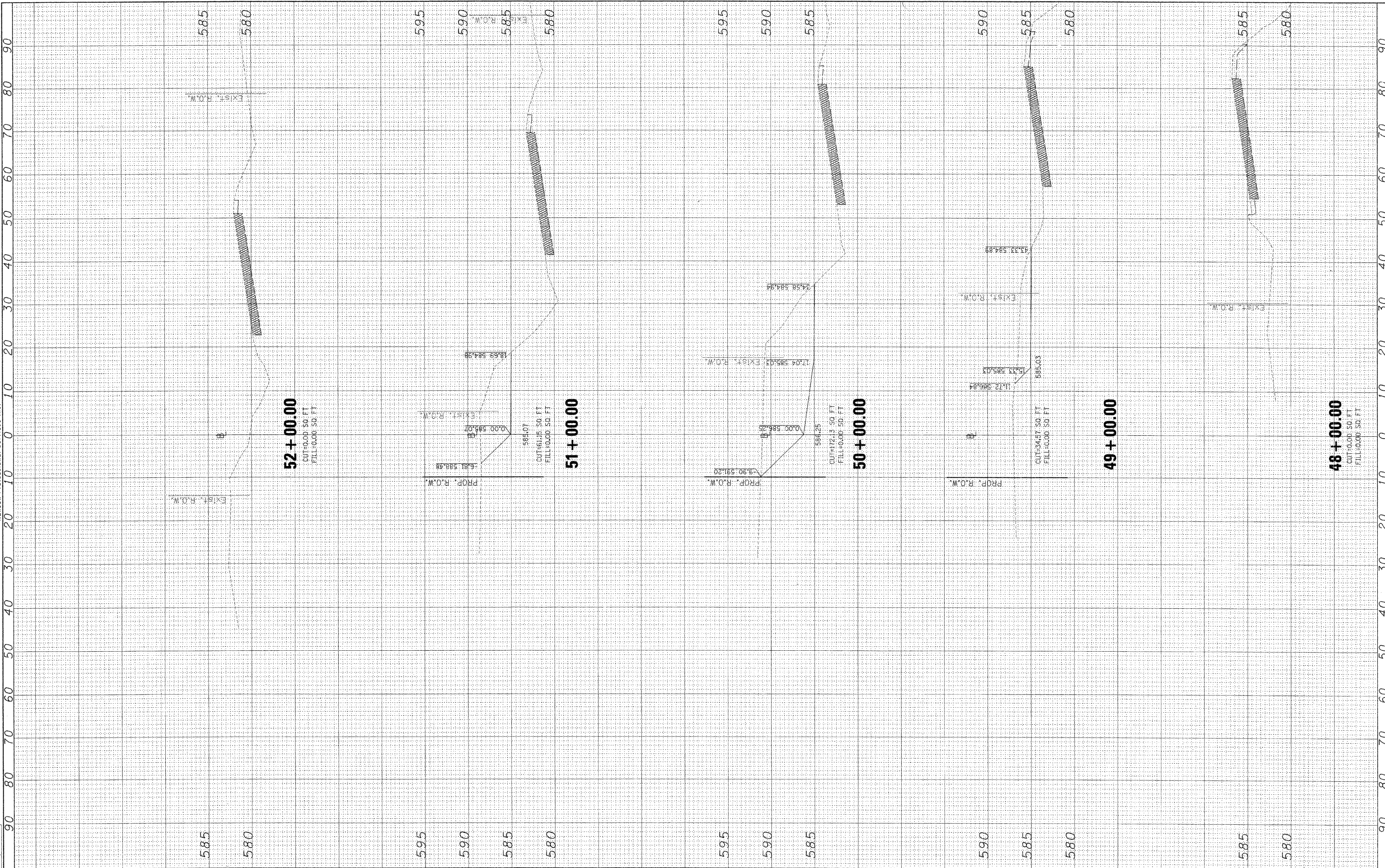
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 DRAWN: DJP 10/10/07
 REVIEWED: JMM 02/04/08



Hanson Professional Services Inc.

CONTRACT # 95552



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USER NAME = Pop00275
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 CHECKED - MNM
 DATE - 10/10/07

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - SOUTH GRADING
 SCALE: SHEET NO. 1 OF 1 SHEETS STA. 48+00.00 TO STA. 52+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	00-00061-00-BR	CUMBERLAND	85	85
CONTRACT NO. 95552				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				