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

STATE OF ILLINOIS

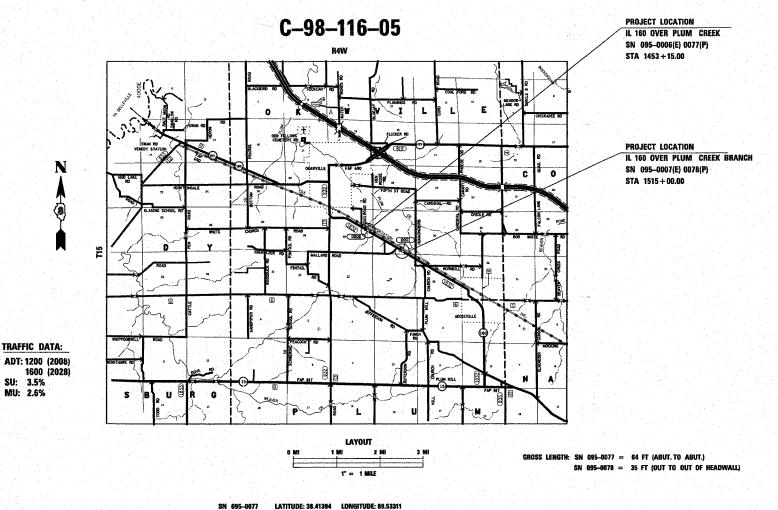
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED

HIGHWAY PLANS

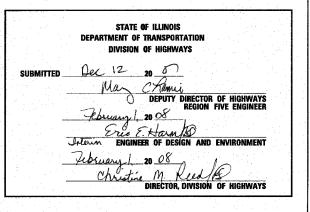
FAS ROUTE 1832 (IL 160) SECTION 5BR-2 PROJECT NO.RS-BRS1832 (101) STRUCTURE REPLACEMENT OVER PLUM CREEK & PLUM CREEK BRANCH **WASHINGTON COUNTY**



CONTRACT NO. 76949 COUNTY TOTAL SHEETS NO. WASHINGTON 97 1 F.A.S. RTE. 1832 SECTION 5BR-2

D-98-091-05





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CONTRACT NO. 76949

SECTION: 5BR-2 FAS ROUTE 1832 (IL 160)

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

MICROFILMED

REEL NUMBER AWARDED

RESIDENT ENGINEER

AS BUILT CHANGES WERE MADE ON THE FOLLOWING SHEETS

1-800-892-0123

WASHINGTON COUNTY

FOR INDEX OF SHEETS, SEE SHEET NO. 2

HBL ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT

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STORM WATER POLLUTION PREVENTION PLAN

SN 095-0006(E) 0077(P)

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SN 095-0007(E) 0078(P)

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000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-01	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH OF A FOOT
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
420401-06	BRIDGE APPROACH PAVEMENT
515001-02	NAME PLATE FOR BRIDGES
630001-07	STEEL PLATE BEAM GUARDRAIL
630301-04	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-06	TRAFFIC CONTROL BARRIER TERMINAL, TYPE 6
631032-03	TRAFFIC CONTROL BARRIER TERMINAL, TYPE 6A
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-01	REFLECTOR MARKER AND MOUNTING DETAILS
666001	RIGHT OF WAY MARKERS
	OFF-ROAD OPERATIONS, 2L, 2W, 4.5m (15') TO 600m (24") FROM PAVEMENT EDGE
	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-09	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS >= 45 MPH
701901	TRAFFIC CONTROL DEVICES
704001-04	TEMPORARY CONCRETE BARRIER
728001	TYPICAL PAVEMENT MARKINGS
780001-01	TELESCOPING STEEL SIGN SUPPORT
781001-02	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

GENERAL NOTES

- 1. THE STANDARDS AND REVISION NUMBERS SHALL APPLY TO THIS PROJECT.
- 2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
- 3. THE THICKNESS OF THE HMA MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.
- 4. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING BY CALLING J.U.L.I.E. AND BY NOTIFYING NON-J.U.L.I.E. MEMBERS INDIVIDUALLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
 - * AMEREN IP (ELECTRICAL)
 - * AMEREN IP (GAS)
 - * CHARTER COMMUNICATIONS, INC.
 - * FRONTIER COMMUNICATIONS CO. (COMMUNICATIONS)
 - * VERIZON NORTH, INC. (COMMUNICATIONS)
 - * WASHINGTON COUNTY WATER CO.

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

- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEDING, FERTILIZING, AND MULCHING ANY AREAS DISTURBED OUTSIDE THE LIMITS OF CONSTRUCTION. THIS WORK WILL NOT BE MEASURED FOR PAYMENT. THE SEEDING SHALL BE CLASS 1 & 2. THE APPLICATION OF THE SEEDING, FERTILIZER, AND MULCH SHALL BE TO THE SATISFACTION OF THE ENGINEER. FINAL SEEDING SHALL BE PERFORMED AS SOON AS POSSIBLE.
- 6. IF THE CONTRACTOR REMOVES TREES WITHIN THE RIGHT-OF-WAY LIMITS FOR HIS CONSTRUCTION ACTIVITY, I.E. IN ORDER TO GAIN ACCESS TO THE PROJECT SITE, IT WILL BE HIS RESPONSIBILITY TO REPLACE THE TREES AT A 1:1 RATIO. THE TREES WILL BE REPLACED WITH A 1 GALLON NATIVE ILLINOIS TREE SPECIES AND SHALL BE APPROVED BY THE ENGINEER. THE TREE REMOVAL AND TREE REPLACEMENT WILL BE AT THE CONTRACTOR'S EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 7. "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT THE BEGINNING AND ENDING OF THE PROJECT AND WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLOURESCENT ORANGE.
- NO TRENCHES OR OPEN PITS WILL BE PERMITTED ADJACENT TO A TRAFFIC LANE DURING NON-WORKING HOURS. ALL WIDENING TRENCHES SHALL BE BACKFILLED DURING THE SAME WORKING DAY IT WAS EXCAVATED.
- 9. THE COST OF GRADING AND SHAPING ALONG THE PROPOSED BASE COURSE SHALL BE INCLUDED IN THE COST OF "EARTH EXCAVATION".
- 10. RIGHT OF WAY MARKERS SHALL BE SET SO THE BACK OF THE POST IS TWELVE (12") INCHES INSIDE THE RIGHT OF WAY BOUNDARY, RIGHT OF WAY PROPERTY CORNERS ARE MARKED BY A %" IRON ROD WITH IDOT ALUMINUM CAP AND SHALL NOT BE REMOVED OR DAMAGED WHEN SETTING THE RIGHT OF WAY MARKERS.

COMMITMENTS

- PROPERTY OWNER BRAD BARKAU SHALL BE GIVEN A MINIMUM # 48 HOURS NOTICE PRIOR TO WORK COMMERNCING ON HIS ENTRANCE LOCATED AT STATION 1455+97.90. MR BARKAU CAN BE REACHED AT (618) 407-6639.
- NO VEHICLES ARE TO BE PARKED IN THE THREE (3) PRAIRIE MEMNANTS LOCATED WITHIN THE PROJECT LIMITS. THE CONTRACTOR AND RESIDENT ENGINEER SHALL DESIGNATE AN AREA FOR PARKING, SO THERE IS NO MISUNDERSTANDING AS TO PRAIRIE LOCATION.

ILLINOIS DEPARTMENT OF TRANSPORTATION DATE INDEX OF SHEETS/HIGHWAY SATNDARDS GENERAL NOTES/COMMITMENTS FAS ROUTE 1832 SECTION 5BR-2 WASHINGTON COUNTY SCALE: VERT. DATE CHECKED BY

DATE = 11/38/2887
NAME = ci\projecta\e SCALE = 58.8888 / IN RENCE = \$EFF

SUMMARY OF QUANTITIES

CODE NO				UAIT	<u> </u>	75		RS -
CODE NO		CHAMADY OF CHANTITIES				CONSTRUCTIO		i-0078
CODE NO		SUMMART OF QUANTITIES		TOTAL	I000-2A	X071-2A	I000-2A	X080-2A
The Resonant For 15 Units Dissistant Units Section	CODE NO	ITEM	UNIT					
2010/2012 THE REMARK COVERT OF STATES STAT	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	378	356		22	
2000100	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	580	540		40	
2000000 CHANNEL EXCAVATION COLORS COL	20200100	EARTH EXCAVATION	CU YD	1145	600		545	
20000000 CHANNEL EXPANTION CU UT T50 655 95 95 2000000 CHANNEL EXPANTION CU UT T50 655 95 95 2000000 CHANNEL EXPANTION CU UT T50 66 85 86 86 2000000 CHANNEL EXPANTION CU UT T50 66 85 86 86 2000000 CHANNEL EXPANTION CU UT T50 86 86 86 86 2000000 CHANNEL EXPANTION C	20200500	EARTH EXCAVATION (WIDENING)	CU YD	120	65		55	
2000100 FUND SERDING, CLASS 1 2000200 SEEDING, CLASS 2 2000200 SEEDING, CLASS 1 2000200 SEEDING, CLASS 2 2000200 SEEDING, CLASS 2 2000200 SEEDING, CLASS 2 2000200 NITROGEN FERTILIZER NUTRIENT POUND 66 43.5 22.5 25000400 PHOSPHORUS FERTILIZER NUTRIENT POUND 66 43.5 22.5 25000400 PHOSPHORUS FERTILIZER NUTRIENT POUND 66 43.5 22.5 25100105 MALCH, METHOD 1 ACRE 2.5 25100105 TEMPORARY DITCH CHECKS EACH 22 25000400 PERIMETER REDSION BARRIER FOOT 7300 4800 28000400 PERIMETER REDSION BARRIER FOOT 7300 4800 28000500 INLET AND PIPE PROTECTION EACH 1 1 28100107 STONE RIPRAP, CLASS AA S0 YD 525 S25 340 340 28200200 FILLET RABRIC S0 YO 365 S1008 FIPRAP, CLASS AS S0 YO 365 S1008 FIPRAP, CLASS AS S0 YO 365 S1008 SIDNE RIPRAP, CLASS AS S0 YO 365 S1008 SIDNE RIPRAP, CLASS AS S0 YO 365 S100910 SUB-BASE GRANMALER MATERIAL, TYPE A 12" S0 YO 51 S100910 SUB-BASE GRANMALER MATERIAL, TYPE B 6" S0 YO 454 254 2600200 BITUMINOUS MATERIALS (PRIME COAT) TON 1.1 0.6 0.5 35000112 MOT-MIX ASPHALT BASE COURSE, IL-19.0, TON 1294 6652 NOT-MIX ASPHALT BASE COURSE, MIX TON 291 157.5 15	20300100	CHANNEL EXCAVATION	CU YD	635				635
2000100 SEDING, CLASS 1	20400800	FURNISHED EXCAVATION	CU YD	750	655		95	
SECURD S	20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	86		86		
25000400 NITROGEN FERTILIZER NUTRIENT POUND 66 43.5 22.5 2500400 PROSPHORUS SERTILIZER NUTRIENT POUND 66 43.5 22.5 22.5 25000600 PROSPHORUS SERTILIZER NUTRIENT POUND 66 43.5 22.5 22.5 25000600 PROSPHORUS SERTILIZER NUTRIENT POUND 66 43.5 22.5 22.5 25000600 PROSPHORUS SERTILIZER NUTRIENT POUND 66 43.5 22.5 22.5 25000600 PROSPHORUS SERTILIZER NUTRIENT POUND 66 43.5 22.5 22.5 25000600 PROSPHORUS SERTILIZER NUTRIENT POUND 66 43.5 22.5 22.5 25000600 PROSPHORUS SERTILIZER NUTRIENT POUND 66 43.5 22.5 22.5 25000600 PROSPHORUS SERTILIZER NUTRIENT POUND 123 71.5 51.5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	25000100	SEEDING, CLASS 1	ACRE	0.25	0.25			
25000500 PHOSPHORUS FERTILIZER NUTRIENT POUND 66 43.5 22.5 25.00500 POTASSIUM FERTILIZER NUTRIENT POUND 66 43.5 22.5 25.5 25.00105 MULCH, METHOD 1 ACRE 2.5 1.5 1.5 1.5 22.5 25.00105 MULCH, METHOD 1 ACRE 2.5 1.5 1.5 1.5 25.00050 TEMPORARY EROSION CONTROL SEEDING POUND 123 71.5 51.5 7.5 15.5 25.000300 TEMPORARY DITCH CHECKS EACH 22 15 7.5 1.5 7.5 25.000300 TEMPORARY DITCH CHECKS EACH 22 15 7.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1	25000200	SEEDING, CLASS 2	ACRE	0.75	0.5		0.25	
25000500 POTASSILM FERTILIZER NUTRIENT POUND 66 43.5 22.5 25000500 MULCH, METHOD 1 ACRE 2.5 1.5 1 5 1 2000500 TEMPORARY EROSION CONTROL SEEDING POUND 123 71.5 51.5 1.5 2000500 TEMPORARY DITCH CHECKS EACH 22 15 7 7 28000400 PERIMETER EROSION BARRIER FOOT 730 450 280 280 28000500 INLET AND PIPE PROTECTION EACH 1 1 1 2 28000200 INLET AND PIPE PROTECTION EACH 1 1 1 2 28000107 STONE RIPRAP, CLASS A4 S0 YD 525 525 340 340 340 340 340 340 340 340 340 340	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	66	43.5		22.5	
25100105 MULCH, METHOD 1 ACRE 2.5 1.5 1 25100105 MULCH, METHOD 1 ACRE 2.5 1.5 1.5 1 260002500 TEMPORARY EROSION CONTROL SEEDING POUND 123 71.5 51.5 26000300 TEMPORARY DITCH CHECKS EACH 22 15 7 26000400 PERIMETER EROSION BARRIER FOOT 730 450 280 28000500 INLET AND PIPE PROTECTION EACH 1 1 1 28100107 STONE RIPRAP, CLASS A4 SQ 70 525 525 28100109 STONE RIPRAP, CLASS A5 SQ 70 340 525 282000200 FILTER FABRIC SQ 70 865 525 340 31100910 SUB-BASE GRANULAR MATERIAL, TYPE A 12" SQ 70 51 35101800 AGGREGATE BASE COURSE, TYPE B 6" SQ 70 454 254 200 387" MINIMINUS MATERIALS (PRIME COAT) TON 1.1 0.6 0.5 3600712 NOT-MIX ASPHALT BASE COURSE WIDENING, SQ 70 54 27 27 40600300 AGGREGATE (FRIME COAT) TON 6 3 3 3 40600300 TEMPORARY RAMP SQ 70 TEMPORARY RAMP SQ 70 TEMPORARY RAMP SQ 70 NTO 1294 652 642 40603340 NOT-MIX ASPHALT SURFACE COURSE, MIX 70 1294 652 642 40600300 INCIDENTAL HOT-MIX ASPHALT SURFACE COURSE, MIX 70 10 1294 652 642 40600300 INCIDENTAL HOT-MIX ASPHALT SURFACE COURSE, MIX 70 10 1294 652 642 40600300 INCIDENTAL HOT-MIX ASPHALT SURFACE COURSE, MIX 70 10 1294 652 642 40600300 INCIDENTAL HOT-MIX ASPHALT SURFACE COURSE, MIX 70 10 1294 652 642 40600105 BRIDGE APPROACH PAVEMENT SQ 70 220 220 40600300 RICIDENTAL HOT-MIX ASPHALT SURFACE NONECTOR SQ 70 444 44 44000100 PAVEMENT REMOVAL SQ 70 948 374 574	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	66	43.5		22.5	
TEMPORARY POSTON CONTROL SECTING POUND 123 T1.5 51.5	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	66	43.5		22.5	
2800300 TEMPORARY DITCH CHECKS 2800300 TEMPORARY DITCH CHECKS 2800300 TEMPORARY DITCH CHECKS 2800300 TINLET AND PIPE PROTECTION 28100107 STONE RIPRAP, CLASS A4 2800300 STONE RIPRAP, CLASS A5 28100109 STONE RIPRAP, CLASS A5 28200200 FILTER FABRIC 31100910 SUB-BASE GRANULAR MATERIAL, TYPE A 12" 35101800 AGGREGATE BASE COURSE, TYPE B 6" 3500712 HOT-MIX ASPHALT BASE COURSE WIDENING, S0 YD 454 2600300 BITUMINOUS MATERIALS (PRIME COAT) 40600300 AGGREGATE (PRIME COAT) 40600300 AGGREGATE (PRIME COAT) 40600300 TEMPORARY RAMP 50 YD 50 YD 51 S1 51 S25 340 340 340 340 340 340 3500712 HOT-MIX ASPHALT BASE COURSE WIDENING, S0 YD 454 254 200 3500712 HOT-MIX ASPHALT BUNDER COURSE, IL-19.0, TON 50 YD 50 YD 51 S1 51 S25 525 525 526 527 528 529 529 529 520 520 520 520 520 520 520 520 520 520	25100105	MULCH, METHOD 1	ACRE	2.5	1.5		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
28000300 IEMPORARY DITCH CHECKS EACH 1 1 280	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	123	71.5		51.5	
28000500 INLET AND PIPE PROTECTION EACH 1 1 1 2 28100107 STONE RIPPAP, CLASS A4 S0 YD 525 5 525 340 340 340 340 340 340 340 340 340 340	28000300	TEMPORARY DITCH CHECKS	EACH	22	15		7	
28100107 STONE RIPRAP, CLASS A4 28100109 STONE RIPRAP, CLASS A5 28100109 STONE RIPRAP, CLASS A5 28200200 FILTER FABRIC 28200200 FILTER FA	28000400	PERIMETER EROSION BARRIER	F00T	730	450		280	
28100101 STONE RIPRAP, CLASS AS 28100109 STONE RIPRAP, CLASS AS SO YD 340 28200200 FILTER FABRIC SIDH-BASE GRANULAR MATERIAL, TYPE A 12" SO YD SUB-BASE GRANULAR MATERIAL, TYPE A 12" SO YD SO YD 46 46 35600712 HOT-MIX ASPHALT BASE COURSE WIDENING, 9" 40600200 BITUMINOUS MATERIALS (PRIME COAT) TON 1.1 0.6 0.5 40600300 AGGREGATE (PRIME COAT) TON 6 3 3 3 40600990 TEMPORARY RAMP SO YD 54 27 27 40603085 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, TON 1294 652 642 40603340 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", NTO 40800050 INCIDENTAL HOT-MIX ASPHALT SURFACING TON 6 6 40001165 BRIDGE APPROACH PAVEMENT SO YD 20 220 42001430 BRIDGE APPROACH PAVEMENT SO YD 444 4400100 PAVEMENT REMOVAL 40001098 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	28000500	INLET AND PIPE PROTECTION	EACH	1	1			
28200200 FILTER FABRIC 28200200 FILTER FABRIC 31100910 SUB-BASE GRANULAR MATERIAL, TYPE A 12" SQ YD 51 35101800 AGGREGATE BASE COURSE, TYPE B 6" SQ YD 46 46 35600712 HOT-MIX ASPHALT BASE COURSE WIDENING, SO YD 454 254 200 40600200 BITUMINOUS MATERIALS (PRIME COAT) TON 1.1 0.6 0.5 40600300 AGGREGATE (PRIME COAT) TON 6 3 3 3 40600300 AGGREGATE (PRIME COAT) TON 6 3 3 3 40600300 TEMPORARY RAMP SQ YD 54 27 27 40603085 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, TON 1294 652 642 N70 40603340 HOT-MIX ASPHALT SURFACE COURSE, MIX TON 291 157.5 133.5 40800050 INCIDENTAL HOT-MIX ASPHALT SURFACING TON 6 6 42001165 BRIDGE APPROACH PAVEMENT SQ YD 220 220 42001430 BRIDGE APPROACH PAVEMENT SQ YD 44 44 44000100 PAVEMENT REMOVAL SQ YD 777 509 268 44000198 HOT-MIX ASPHALT SURFACE REMOVAL, SQ YD 948 374 574	28100107	STONE RIPRAP, CLASS A4	SQ YD	525		525		
SUB-BASE GRANULAR MATERIAL, TYPE A 12" SO YD 51 51 51 51 51 51 51 5	28100109	STONE RIPRAP, CLASS A5	SQ YD	340				340
35101800 AGGREGATE BASE COURSE, TYPE B 6" S0 YD 46 46 46 35600712 HOT-MIX ASPHALT BASE COURSE WIDENING, 9" TON 1.1 0.6 0.5 46600200 BITUMINOUS MATERIALS (PRIME COAT) TON 1.1 0.6 0.5 46600300 AGGREGATE (PRIME COAT) TON 6 3 3 3 40600990 TEMPORARY RAMP S0 YD 54 27 27 27 40603085 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 1294 652 642 652	28200200	FILTER FABRIC	SQ YD	865		525		340
35600712 HOT-MIX ASPHALT BASE COURSE WIDENING, 9" SQ YD 454 254 200	31100910	SUB-BASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	51			51	
100 100	35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	46	46			
40600200 BITOMINOUS MATERIALS (TRIME COAT) 40600300 AGGREGATE (PRIME COAT) 40600300 TEMPORARY RAMP 50 YD 54 27 27 40603085 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, TON 1294 652 642 40603340 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", NTO 40800050 INCIDENTAL HOT-MIX ASPHALT SURFACING 42001165 BRIDGE APPROACH PAVEMENT 50 YD 50 Y	35600712	HOT-MIX ASPHALT BASE COURSE WIDENING, 9"	SQ YD	454	254		200	
40600300	40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	1.1	0.6		0.5	
40603990 TEMPORART RAMP 40603085 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 40603340 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 40800050 INCIDENTAL HOT-MIX ASPHALT SURFACING 42001165 BRIDGE APPROACH PAVEMENT 42001430 BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) 44000100 PAVEMENT REMOVAL 44000108 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH 50 YD 948 374 5197	40600300	AGGREGATE (PRIME COAT)	TON	6	3		3	
40603340 HOT-MIX ASPHALT SURFACE COURSE, MIX 40603340 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 40800050 INCIDENTAL HOT-MIX ASPHALT SURFACING 42001165 BRIDGE APPROACH PAVEMENT 42001430 BRIDGE APPROACH PAVEMENT CONNECTOR 42001430 BRIDGE APPROACH PAVEMENT CONNECTOR 44000100 PAVEMENT REMOVAL 50 YD 777 509 268 44000198 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	40600990	TEMPORARY RAMP	SQ YD	54	27		27	
#0503340 #01-MIX ASPHALT SURFACE COURSE, MIX "D", NTO 40800050 INCIDENTAL HOT-MIX ASPHALT SURFACING TON 6 6 42001165 BRIDGE APPROACH PAVEMENT SQ YD 220 42001430 BRIDGE APPROACH PAVEMENT CONNECTOR SQ YD 44 (FLEXIBLE) 44000100 PAVEMENT REMOVAL 44000198 HOT-MIX ASPHALT SURFACE REMOVAL, YARIABLE DEPTH 50 YD 948 374 574	40603085	• The state of the	TON	1294	652		642	
4200165 BRIDGE APPROACH PAVEMENT SOUNDECTOR 42001430 BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) 44000100 PAVEMENT REMOVAL 44000198 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH 50 YD 220 444 458 50 YD 240 468 397	40603340		TON	291	157.5		133.5	
4200165 BRIDGE APPROACH PAVEMENT CONNECTOR 42001430 BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) 44000100 PAVEMENT REMOVAL 44000198 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH 50 YD 948 374 574 397	40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	6	6			
44000100 PAVEMENT REMOVAL 44000198 HOT-MIX ASPHALT SURFACE REMOVAL, SQ YD 948 374 VARIABLE DEPTH 50 YD 948 374 574	42001165	BRIDGE APPROACH PAVEMENT	SQ YD	220		220		
44000100 PAVEMENT REMOVAL 44000198 HOT-MIX ASPHALT SURFACE REMOVAL, SQ YD 948 374 574 VARIABLE DEPTH 574	42001430		SQ YD	44		44		
VARIABLE DEPTH	44000100	PAVEMENT REMOVAL	SQ YD	777	509		268	
			SQ YD	948	374		574	
	48101500		SQ YD	865	468		397	

		CONTRAC	I NO.	1694
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1832	5BR-2	WASHINGTON	97	. 3
STA.		TO STA		
		DIATE EED 410	חחת ובכי	

THOSE DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

				4 B)	(5		<u>'s — </u>
Contracting the second	SUMMARY OF QUANTITIES			SN 095		ON TYPE CODE SN 095	-0078
		<u> </u>	TOTAL	I000-2A FED 80%	X071-2A FED 80%	I000-2A FED 80%	X080-2A FED 80%
CODE NO	ITEM	UNIT	QUANTITIES	STATE 20%	STATE 20%	STATE 20%	STATE 20%
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	865	468		397	
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1		
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1				1
50105220	PIPE CULVERT REMOVAL	FOOT	25.5	25.5			
50200100	STRUCTURE EXCAVATION	CU YD	505		140		365
50300100	FLOOR DRAINS	EACH	8		8		
50300225	CONCRETE STRUCTURES	CU YD	173.8		28.8		145
50300255	CONCRETE SUPERSTRUCTURE	CU YD	88.1		88.1		
50300260	BRIDGE DECK GROOVING	SQ YD	213		213		
50300280	CONCRETE ENCASEMENT	CU YD	4.2		4.2		
50300300	PROTECTIVE COAT	SQ YD	281		281		
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1		
50500505	STUD SHEAR CONNECTORS	EACH	1134		1134		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	28550		21960		6540
50800515	BAR SPLICERS	EACH	313		285		28
5090 <i>0200</i> 58700300 51201600	STEEL RAILING, TYPE 2399 CONCRETE SEALER FURNISHING STEEL PILES HP12X53	FOOT SQ FT FOOT	64 /44 245		245		64 144
51202305	DRIVING PILES	FOOT	245		245		
51202303	TEST PILE STEEL HP12X53	EACH	1		1		
51500100	NAME PLATES	EACH	2		1		1
52100520	ANCHOR BOLTS, 1"	EACH	24		24		
54213453	END SECTIONS 18"	EACH	2	2			
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	25.5	25.5			
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	51		51		
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	138		138		
63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	750	375		375	
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4			
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4			4	
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	8	4		4	
63200310	GUARDRAIL REMOVAL	F00T	1152	559		593	
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	25	12		13	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	4.5		4.5	
67100100	MOBILIZATION	L SUM	1	0.5		0.5	
70100500	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	0.5		0.5	
	STANDARD 701326						
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1832	5BR~2	: W	ASHINGTON	97	
F.A.S. RTE.	SECTION	į (COUNTY	TOTAL SHEETS	SHE

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* SPECIALTY ITEMS

I THOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES _____ RS ____

 -	 3 5				 	F.A.S. RTE.	SECTION		COUNTY	SHEETS	NO.	
						1832	5BR-2	W	ASHINGTON	97	5	١.
						STA.		TO	STA			
						FED. RO	ND DIST. NO	ILLINOIS	FED. AID	PROJECT	Г]
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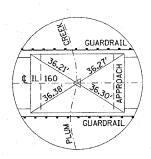
			O1	QU/	BRS		RS	
	SUMMARY 0	F QUANTITIES			SN 095-	CONSTRUCTION	TYPE CODE SN 095-	0078
T	SUMMAN I O	QUANTITIES		TOTAL	I000-2A FED 80%	X071-2A FED 80%	I000-2A FED 80%	X080-2A FED 80%
CODE NO	I	TEM	UNIT	QUANTITIES	STATE 20%	STATE 20%	STATE 20%	STATE 20%
70101205	TRAFFIC CONTROL AND PR STANDARD 701321 (SPECI		EACH	2	1		1	
70106500	TEMPORARY BRIDGE TRAFF	IC SIGNALS	EACH	2	1		1	
70106700	TEMPORARY RUMBLE STRIP		EACH	12	6		6	
70106800	CHANGEABLE MESSAGE SIG	N	CAL MO	9	4.5		4.5	
70300220	TEMPORARY PAVEMENT MAR	KING - LINE 4"	FOOT	10286	5276		5010	
70300240	TEMPORARY PAVEMENT MAR	KING - LINE 6"	F00T	3520	1820		1700	
70300280	TEMPORARY PAVEMENT MAR	KING - LINE 24"	F00T	154	60		94	
70301000	WORK ZONE PAVEMENT MAR	KING REMOVAL	SQ FT	3737	1879		1858	
70400100	TEMPORARY CONCRETE BAR	RIER 1.12 11 11 11 11 11 11 11 11 11 11 11 11 1	FOOT	1840		910		930
70400200	RELOCATE TEMPORARY CON	CRETE BARRIER	FOOT	1680		910		770
72000100	SIGN PANEL - TYPE 1		SQ FT	20	10		10	
72800100	TELESCOPING STEEL SIGN	SUPPORT	FOOT	48	24		24	
78000200	THERMOPLASTIC PAVEMENT	MARKING - LINE	F00T	5825	2694		3131	
78000650	THERMOPLASTIC PAVEMENT	MARKING - LINE	F00T	38			38	
78008210	POLYUREA PAVEMENT MARK	KING TYPE I - LINE	FOOT	279		279		
78100100	RAISED REFLECTIVE PAVE	EMENT MARKER	EACH	31	15		16	
78100105	RAISED REFLECTIVE PAVE (BRIDGE)	EMENT MARKER	EACH	2		2		
78200200	BIDIRECTIONAL PRISMAT	IC BARRIER	EACH	4		2		2
78200410	GUARDRAIL MARKERS, TY	PE A	EACH	18	9		9	
78201000	TERMINAL MARKER - DIR	ECT APPLIED	EACH	8	4		4	
78300100 A	PAVEMENT MARKING REMO	VAL, THE REGISTRATION OF THE STATE OF THE ST	SQ FT	1939	990		949	
(X0321100)	GEOTEXTILE RETAINING	WALL	SQ FT	P COOD	Δ			[171.9
X0323330	PRECAST CONCRETE SUBS	TRUCTURE	L SUM	1				1
X0323988	TEMPORARY SOIL RETENT	ION SYSTEM	SQ FT	808.4		364.3		444.1
X7200200	WIDE LOAD SIGNING		L SUM	1	0.5		0.5	
z0030250	IMPACT ATTENUATORS, T REDIRECTIVE), TEST LE		EACH	4		2		2
Z0030260	IMPACT ATTENUATORS, T REDIRECTIVE, NARROW),		EACH	3		2		1
Z0030350	IMPACT ATTENUATORS, R REDIRECTIVE), TEST LE		EACH	3		2		1
X0325916	THREE-SIDED PRECAST C	ONCRETE STRUCTURE	FOOT	37.25				37.2
€0007600	TRAINEES		HOUR	500	500			
						● Y080	* SPECIALT	Y ITEMS

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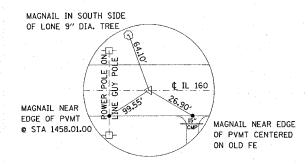
TIE POINT

MAGNAIL 580' TO ¢ OF BRIDGE SN 095-006 OVER PLUM CREEK STA 1447+34.76



TIE POINT

MAGNAIL @ BRIDGE & STA 1453+15.00



TIE POINT

MAGNAIL 585' FROM CENTER OF BRIDGE OVER PLUM CREEK @ STA 1459+00.00

BENCHMARKS

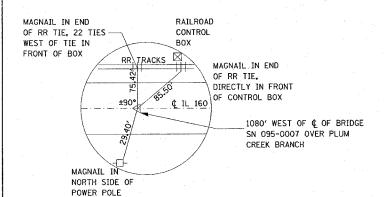
BM 1 - RR SPIKE IN POWER POLE, (MIDDLE POLE OF 3) @ SE CORNER OF IL 160 & GOLDFINCH RD/RAILROAD RD STA 1445+90. 30' RT ELEVATION = 447.09

BM 2 - RR SPIKE IN POWER POLE & THE SOUTH SIDE OF IL 160. ± 400' EAST OF THE CENTER OF SN 095-0006 STA 1458+02, 32' RT ELEVATION = 444.48

SN 095-0007(E) 0078(P)

CONTRACT NO. 76949 SECTION COUNTY TOTAL SHEET SHEETS NO. 1832 5BR-2 WASHINGTON 97 6 TO STA.____ STA. FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT

NOTE: ALL TIES ARE DIRECT / SLOPE TAPED MEASUREMENTS



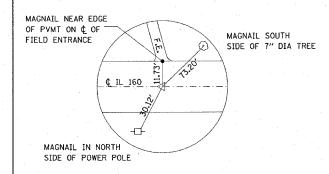
TIE POINT

MAGNAIL @ C STATION EQUATION 1500+07.63 BACK TO SN 095-0006 = 1500+00.00 FORWARD TO SN 095-0007



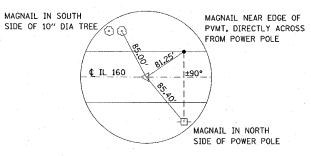
TIE POINT

MAGNAIL @ BRIDGE & STA 1510.80.00



TIE POINT

MAGNAIL 580' FROM CENTER OF BRIDGE SN 095-0007 OVER PLUM CREEK BRANCH @ STA 1505+00.00



TIE POINT

MAGNAIL 610.5' EAST OF CENTER OF BRIDGE SN 095-0007 OVER PLUM CREEK BRANCH @ STA 1516+90.54

BENCHMARKS

BM 4 - RR SPIKE IN POWER POLE, (NEAR SE CORNER OF CULTIVATED FIELD), ± 250' WEST OF NS 095-0007, ± 175' SOUTH OF IL 160 STA 1506+17.8, 30' RT ELEVATION = 451.13

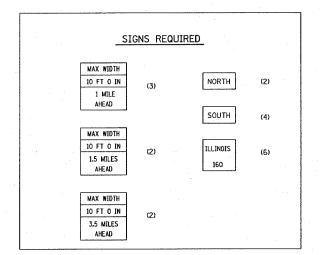
BM 5 - CHISELED " " ON BRIDGE ABUTMENT @ NW CORNER OF SN 095-0007 STA 1510+84.7, 18.4' LT ELEVATION = 445.50

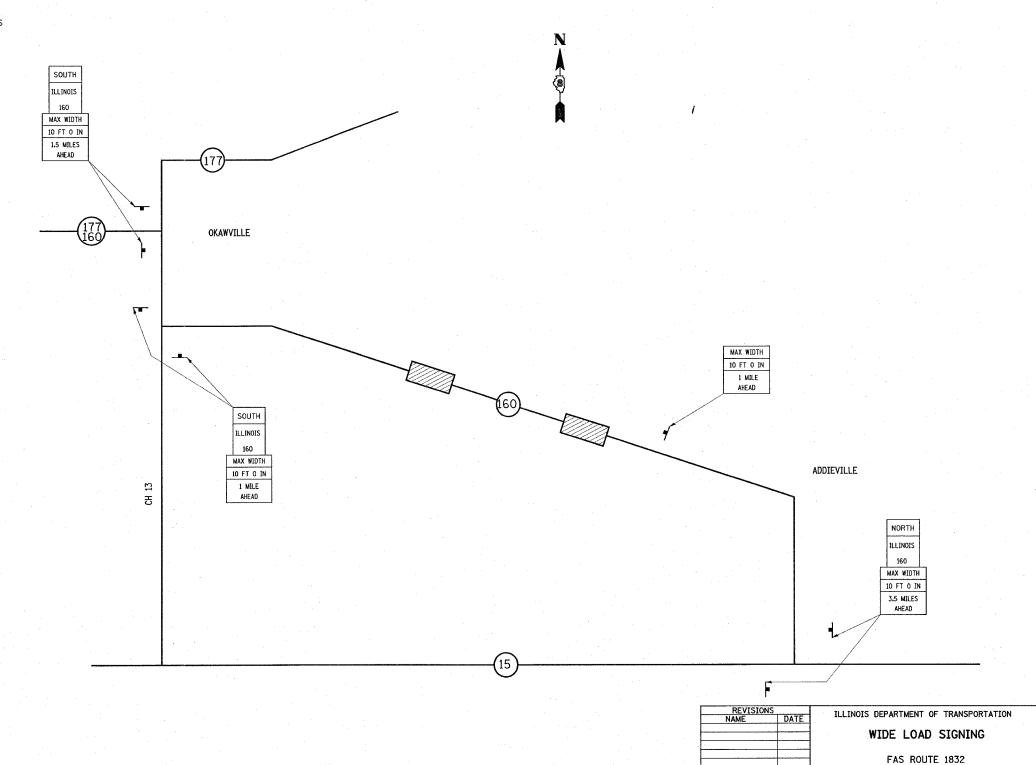
RR SPIKE IN POWER POLE, & SW CORNER OF IL 160 & PLUM HILL CHURCH RD / HUMMINGBIRD RD STA 1520+20, 30' RT ELEVATION = 453.68

ILLINOIS DEPARTMENT OF TRANSPORTATION DATE TIES & BENCHMARKS FAS ROUTE 1832 SECTION 5BR-2 WASHINGTON COUNTY SCALE: VERT. DRAWN BY DATE

CHECKED BY

- 1. ALL SIGNS REQUIRED WILL BE SUPPLIED TO THE CONTRACTOR BY I.D.O.T.
- THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT SIGNS AT THE LOCATIONS SHOWN ON THIS SHEET, AS DIRECTED BY THE RE/RT. THE POSTS SHALL REMAIN THE PROPERTY OF
- 3. THE CONTRACTOR SHALL GIVE ILLINOIS DEPARTMENT OF TRANSPORTATION, BUREAU OF OPERATIONS TWO WEEKS NOTICE FOR SIGNS. THE CONTRACTOR SHALL PICK UP THE SIGNS AT THE T.M. BUILDING IN FAIRVIEW HEIGHTS, AND RETURN THEM UPON COMPLETION OF THE CONTRACT. CONTACT JEAN SLAPE @ (618) 346-3289.
- 4. THE ABOVE NOTED WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE, LUMP SUM, FOR WIDE LOAD SIGNING AND NO OTHER COMPENSATION WILL BE ALLOWED.
- 5. SIGN SPACING WILL BE 400' OR TO FIT FIELD CONDITIONS.
- 6. THE HEIGHT TO THE BOTTOM OF THE LOWEST SIGN SHALL NOT BE LESS THAN 6'.





CONTRACT NO. 76949

COUNTY TOTAL SHEET NO.

F.A.S. SECTION

1832 5BR-2 WASHINGTON 97 TO STA.__

FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT

SECTION 5BR-2 WASHINGTON COUNTY

DRAWN BY

SCALE: VERT. HORIZ.

DATE

DATE NAME SCALE ENCE PLOT FILE PLOT REFE NPDES PERMITS ASSOCIATED WITH THIS PROJECT:

⊠ILR40 PERMIT NO. 0493

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

Man (Kami PRINT NAME SIGNATURE Dec 12, 2007

IL DEPT. OF TRANSPORTATION
AGENCY

I. SITE DESCRIPTION.

CHECKED

PLAN NOTE BOOK

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

THE PROJECT IS LOCATED ON IL 160 OVER PLUM CREEK 2.7 MILES WEST OF ADDIEVILLE

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

CONSTRUCTION WILL INCLUDE THE REMOVAL AND REPLACEMENT OF THE IL RTE 160 STRUCTURE OVER PLUM CREEK. A. EROSION AND SEDIMENT CONTROL SCOUR MITIGATION, PAVING, GRADING, CULVERT, LANDSCAPIND, AND ALL INCIDENTAL WORK NECESSARY TO COMPLETE THE PROPOSED STRUCTURE AND ROADWAY AS SHOWN IN THE PLANS.

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

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

PLUM CREEK (SN 095-0077) AND PLUM CREEK BRANCH (SN 095-0078)

PRE-STAGE 1: CONSTRUCTION OF THE 3' TEMPORARY PAVEMENT WIDENING ON THE NORTHEAST AND MORTHWEST

STAGE 1: BEGIN STAGE 1 REMOVAL OF THE EXISTING STRUCTURE, AND STAGE I CONSTRUCTION OF THE REPLACEMENT STRUCTURE, EROSION CONTROL, GRADING, PAVING THE RIGHT SIDE PAVEMENT EAST AND WEST OF THE STRUCTURE, CONSTRUCTION OF PROPOSED BITUMINOUS AND AGGREGATE SHOULDERS, GUARDRAIL, RIPRAP, ETC.

STAGE 2: REGIN STAGE 2 REMOVAL OF THE EXISTING STRUCTURE AND STAGE 2 CONSTRUCTION OF TH REPLACEMENT STRUCTURE, REMOVE TEMPORARY WIDENING, GRADING, PAVING THE LEFT SIDE PAVEMENT EAST AND WEST OF THE STRUCTURE, CONSTRUCTION OF THE PROPOSED BITUMINOUS AND AGGRECATE SHOULDERS, GUARDRAIL,

D. THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 2.61 ACRES.

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

- E. THE FOLLOWING IS A WEIGHTED AVERAGE OF THE RUNOFF COEFFICIENT FOR THIS PROJECT AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED: C= 0.50
- F. THE FOLLOWING IS A DESCRIPTION OF THE SOIL TYPES FOUND AT THE PROJECT SITE FOLLOWED BY INFORMATION REGARDING THEIR EROSIVITY:

ORION SILT LOAM (3415) - A SOMEWHAT POORLY DRAINED SOIL WITH MODERATE PERMEABILITY. THIS SOIL IS FREQUENTLY FLOODED WITH 0 TO 2 PERCENT SLOPES. THIS SOIL HAS A SLIGHT SUSCEPTIBILITY TO WATER AND WIND FROSTON.

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

THERE IS ONLY ONE TYPE OF SOIL WITHIN THE PROJECT LIMITS, ORION SILT LOAM (3415)

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

THE NATURE AND PURPOSE OF LAND DISTURBING ACTIVITIES ON THIS PROJECT IS TO REMOVE AND REPLACE THE IL ROUTE 160 BRIDGE OVER PLUM CREEK (PROPOSED STRUCTURE NO. 095-0006, EXISTING STRUCTURE 095-0077).
PROPOSED RIGHT-OF-WAY WILL BE REQUIRED TO ACCOMMODATE RECONSTRUCTION OF THE BRIDGE AND THE ROADWAY APPROACHES. THERE ARE NO SCHEDULED NEIGHBORING ACTIVITIES THAT WILL AFFECT THE SOIL EROSION AND SEDIMENT CONTROL PLANS AND NO OFF-SITE LAND DISTURBING ACTIVITIES.

ORION SILT LOAM (3415) HAS EROSIVE CHARACTERISTICS, GRADING ON BOTH SIDES OF THE STRUCTURE, SLOPE STEEPNESS AND LENGTH VARY FROM 1:2.5 TO 1:3 AND 4' TO 35' RESPECTIVELY.

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

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

PLUM CREEK (SN 095-0077) AND PLUM CREEK BRANCH (SN 095-0078)

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

⊠ SOIL SEDIMENT № PETROLEUM (GAS, DIESEL, OIL, KEROSENE, HYDRAULIC OIL / FLUIDS) M CONCRETE ANTIFREEZE / COOLANTS ☑ CONCRETE TRUCK WASTE ■ WASTE WATER FROM CLEANING CONSTRUCTION EQUIPMENT ☑ CONCRETE CURING COMPOUNDS CLOTHER (SPECIEY) ☑ SOLID WASTE DEBRIS OTHER (SPECIFY) IT PAINTS D OTHER (SPECIFY). □ SOLVENTS OTHER (SPECIFY)_____ D FERTILIZERS / PESTICIDES □ OTHER (SPECIFY)_.

II. CONTROLS

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

1. STABILIZED PRACTICES: PROVIDED BELOW IS A DESCRIPTION OF INTERIM AND PERMANENT STABILIZATION PRACTICES, INCLUDING SITE SPECIFIC SCHEDULING OF THE IMPLEMENTATION OF THE PRACTICES. SITE PLANS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES MAY INCLUDE BUT ARE NOT LIMITED TO: TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, GEOTEXTILES, SODDING, VEGETATIVE BUFFER STRIPS, PROTECTION OF TREES, PRESERVATION OF MATURE VEGETATION, AND OTHER APPROPRIATE MEASURES. EXCEPT AS PROVIDED BELOW IN II(A)(1)(q) AND II(A)(3), STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED ON ALL DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION WILL NOT OCCUR FOR A PERIOD OF 21 OR MORE CALENDAR DAYS.

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

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

□ PRESERVATION OF MATURE VEGETATION M EROSION CONTROL BLANKET / MULCHING D VEGETATED BUFFER STRIPS ☐ SODDING PROTECTION OF TREES n GEOTEXTILES ■ TEMPORARY EROSION CONTROL SEEDING □ OTHER (SPECIFY)_ □ TEMPORARY TURF (SEEDING, CLASS 7) OTHER (SPECIFY)__ ■ TEMPORARY MULCHING OTHER (SPECIFY)_____ ■ PERMANENT SEEDING OTHER (SPECIFY)

DESCRIBE HOW THE STABILIZATION PRACTICES LISTED ABOVE WILL BE UTILIZED

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

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

WITHIN THE CONSTRUCTION LIMITS. AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL

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

2. PERMANENT SEEDING - SEEDING, CLASS 1 & 2 WILL BE INSTALLED PER IDOT SPECIFICATIONS.

3. EROSION CONTROL BLANKETS/MULCHING - EROSION CONTROL BLANKETS WILL BE INSTALLED OVER FILL SLOPES AND IN HIGH VELOCITY AREAS (I.E. DITCHES) THAT HAVE BEEN BROUGHT TO FINAL GRADE AND SEEDED TO PROTECT SLOPES FROM EROSION AND ALLOW SEEDS TO GERMINATE. MULCH, METHOD 2 WILL BE APPLIED IN RELATIVELY FLAT AREAS TO PROTECT THE DISTURBED AREAS AND PREVENT FURTHER EROSION.

MULCH AS APPLIED TO TEMPORARY EROSION CONTROL SEEDING SHALL BE BY THE METHOD SPECIFIED IN THE CONTRACT AND AT THE DIRECTION OF THE ENGINEER. MULCH WILL BE PAID SEPARATELY AND SHALL CONFORM TO SECTION 251 OF THE STANDARD SPECIFICATIONS.

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

CONTRACT NO. 76949 SECTION COUNTY TOTAL SHEE 1832 5BR-2 WASHINGTON 97 8 TO STA. EXISTING CONDITIONS:

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

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

■ PERIMETER EROSION BARRIER □ ROCK OUTLET PROTECTION M TEMPORARY DITCH CHECK Ø RIPRAP C GABIONS ■ STORM DRAIN INLET PROTECTION ☐ SEDIMENT TRAP D SLOPE MATTRESS ☐ TEMPORARY PIPE SLOPE DRAIN ☐ RETAINING WALLS □ TEMPORARY SEDIMENT BASIN □ SLOPE WALLS ☐ TEMPORARY STREAM CROSSING CONCRETE REVETMENT MATS □ STABILIZED CONSTRUCTION EXITS □ LEVEL SPREADERS OTHER (SPECIFY)_. I TURE REINFORCEMENT MATS D PERMANENT CHECK DAMS OTHER (SPECIFY). □ OTHER (SPECIFY)_____ ☐ PERMANENT SEDIMENT BASIN AGGREGATE DITCH OTHER (SPECIFY) ☐ PAVED DITCH

DESCRIBE HOW THE STRUCTURAL PRACTICES LISTED ABOVE WILL BE UTILIZED:

1. PERIMETER EROSION BARRIER - SILT FENCES WILL BE PLACED ALONG THE BANKS OF PLUM CREEK IN AN EFFORT TO CONTAIN SILT AND RUNOFF FROM LEAVING THE SITE.

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

2. STORM DRAIN INLET PROTECTION - INLET AND PIPE PROTECTION WILL BE PROVIDED FOR CULVERTS AND WILL BE CLEANED ON A REGULAR BASIS.

3. TEMPORARY DITCH CHECKS - DITCH CHECKS WILL BE PLACED IN SWALES WHERE RUNOFF VELOCITY IS HIGH. ALL STRUCTURAL PRACTICES ARE SHOWN IN DETAIL ON THE EROSION CONTROL PLANS.

TEMPORARY DITCH CHECKS SHALL BE LOCATED AT EVERY 1.5 FT. FALL/RISE IN DITCH GRADE.

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

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

4. RIPRAP - THE BRIDGE OPENING WILL BE PROTECTED WITH RR-5 RIPRAP FROM ABUTMENT TO ABUTMENT TO PREVENT EROSION AND SCOURING.

AS SOON AS REASONABLE ACCESS IS AVAILABLE TO ALL LOCATIONS WHERE WATER DRAINS AWAY FROM THE PROJECT, TEMPORARY DITCH CHECKS, INLET AND PIPE PROTECTION, AND PERIMETER EROSION BARRIER SHALL BE INSTALLED AS CALLED OUT IN THIS PLAN AND DIRECTED BY THE ENGINEER.

ALL FROSTON CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO THE APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.

ILLINOIS DEPARTMENT OF TRANSPORTATION STORM WATER POLLUTION REVISIONS NAME PREVENTION PLAN DATE FAS ROUTE 1832 SECTION 5BR-2 WASHINGTON COUNTY BDE 2342 (REV. 06/07 DRAWN BY:

PLOT DATE:_12/7/2007

NATURAL DEPRESSIONS, INFILTRATION OF RUNOFF ON SITE, AND SEQUENTIAL SYSTEMS (WHICH COMBINE SEVERAL PRACTICES).
THE PRACTICES SELECTED FOR IMPLEMENTATION WERE DETERMINED ON THE BASIS OF THE TECHNICAL GUIDANCE IN SECTION 59-8 (EROSION AND SEDIMENT CONTROL) IN CHAPTER 59 (LANDSCAPE DESIGN AND EROSION CONTROL) OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION BUREAU OF DESIGN AND ENVIRONMENT MANUAL. IF PRACTICES OTHER THAN THOSE DISCUSSED IN SECTION 59-8 ARE SELECTED FOR IMPLEMENTATION OR IF PRACTICES ARE

APPLIED TO SITUATIONS DIFFERENT FROM THOSE COVERED IN SECTION 59-8. THE TECHNICAL BASIS FOR SUCH

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

DESCRIPTION OF STORM WATER MANAGEMENT CONTROLS:

DECISIONS WILL BE EXPLAINED BELOW.

THE PHASE I LOCATION DRAINAGE STUDY, PERFORMED BY LOCATION STUDIES HAS DETERMINED THAT NO STORM WATER DETENTION IS REQUIRED FOR THIS PROJECT.

4. OTHER CONTROLS:

CHECKED CHECKED NAME

SURVEYED PLOTTED ALIGNMENT RT. OF WAY CADD FILE

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

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

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

ALL PRODUCTS DELIVERED TO THE PROJECT SITE MUST BE PROPERLY LABELED.

 A STORAGE/CONTAINMENT FACILITY SHOULD BE CHOSEN FOR LARGER ITEMS SUCH AS DRUMS AND ITEMS SHIPPED OR STORED ON PALLETS. SUCH MATERIAL IS TO BE COVERED BY A TIN ROOF OR LARGE SHEETS OF PLASTIC TO PREVENT PRECIPITATION FROM COMING IN CONTACT WITH THE PRODUCTS BEING STORED.

WATER TIGHT SHIPPING CONTAINERS AND/OR SEMI TRAILERS SHALL BE USED TO STORE HAND TOOLS, SMALL
PARTS, AND MOST CONSTRUCTION MATERIALS THAT CAN BE CARRIED BY HAND, SUCH AS PAINT CANS, SOLVENTS,
AND GREASE.

LARGE ITEMS SUCH AS LIGHT STANDS, FRAMING MATERIALS AND LUMBER SHALL BE STORED IN THE OPEN IN A
GENERAL STORAGE AREA. SUCH MATERIAL SHALL BE ELEVATED WITH WOOD BLOCKS TO MINIMIZE CONTACT WITH
STORM WATER RINNEF.

SPILL CLEAN-UP MATERIALS, MATERIAL SAFETY DATA SHEETS, AN INVENTORY OF MATERIALS, AND EMERGENCY
CONTACT NUMBERS SHALL BE MAINTAINED AND STORED IN ONE DESIGNATED AREA AND EACH CONTRACTOR IS TO
INFORM HIS/HER EMPLOYEES AND THE RESIDENT ENGINEER OF THIS LOCATION.

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

PERIMETER EROSION BARRIER

PERIMETER EROSION BARRIER

TEMPORARY SEEDING

TEMPORARY MULCH

PLASTIC COVERS

SOIL BINDERS

THE CONTRACTOR WILL PROVIDE THE RESIDENT ENGINEER WITH A WRITTEN PLAN OF THE PROCEDURES (S)HE WILL

USE ON THE PROJECT AND HOW THEY WILL BE MAINTAINED.

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

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

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

5. APPROVED STATE OR LOCAL LAWS

THE MANAGEMENT PRACTICES, CONTROLS AND PROVISIONS CONTAINED IN THIS PLAN WILL BE IN ACCORDANCE WITH 100T SPECIFICATIONS, WHICH ARE AT LEAST AS PROTECTIVE AS THE REQUIREMENTS CONTAINED IN THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S ILLINOIS URBAN MANUAL, 1995. PROCEDURES AND REQUIREMENTS SPECIFIED IN APPLICABLE SEDIMENT AND EROSION SITE PLANS OR STORM WATER MANAGEMENT PLANS APPROVED BY LOCAL OFFICIALS SHALL BE DESCRIBED OR INCORPORATED BY REFERENCE IN THE SPACE PROVIDED BELOW. REQUIREMENTS SPECIFIED IN SEDIMENT AND EROSION SITE PLANS, SITE PERMITS, STORM WATER MANAGEMENT SITE PLANS OR SITE PERMITS APPROVED BY LOCAL OFFICIALS THAT ARE APPLICABLE TO PROTECTING SURFACE WATER RESOURCES ARE, UPON SUBMITTAL OF AN NOI, TO BE AUTHORIZED TO DISCHARGE UNDER PERMIT ILRIO INCORPORATED BY REFERENCE AND ARE ENFORCEABLE UNDER THIS PERMIT EVEN IF THEY ARE NOT SPECIFICALLY INCLUDED IN THE PLAN.

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

ALL MANAGEMENT PRACTICES, CONTROLS, AND OTHER PROVISIONS PROVIDED IN THIS PLAN ARE IN ACCORDANCE WITH "IDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND THE ILLINGIS URBAN MANUAL".

III. MAINTENANCE:

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

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

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

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

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

INSPECTION OF THESE AREAS SHALL BE MADE AT LEAST ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS OF THE END OF EACH 0.5 INCHES OR GREATER RAINFALL, OR AN EQUIVALENT SNOWFALL. THE PROJECT SHALL ADDITIONALLY BE INSPECTED BY THE CONSTRUCTION FIELD ENGINEER ON A BI-WEEKLY BASIS TO DETERMINE THAT EROSION CONTROL EFFORTS ARE IN PLACE AND EFFECTIVE AND IF OTHER EROSION CONTROL WORK IS NECESSARY.

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

IV. INSPECTIONS

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

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

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

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

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

THE INCIDENCE OF NON-COMPLIANCE SHALL BE MAILED TO THE FOLLOWING ADDRESS:

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

V. NON-STORM WATER DISCHARGES:

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

- A. SPILL PREVENTION AND CONTROL BMPS SHALL BE IMPLEMENTED TO CONTAIN AND CLEAN-UP SPILLS AND PREVENT MATERIAL DISCHARGES TO THE STORM DRAIN SYSTEM. THE CONTRACTOR SHALL PRODUCE A WRITTEN PLAN STATING HOW HIS/HER COMPANY WILL PREVENT, REPORT, AND CLEAN UP SPILLS AND PROVIDE A COPY TO ALL OF HIS/HER EMPLOYEES AND THE RESIDENT ENGINEER. THE CONTRACTOR SHALL NOTIFY ALL OF HIS/HER EMPLOYEES ON THE PROPER PROTOCOL FOR REPORTING SPILLS. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER OF ANY SPILES IMMEDIATELY
- B. CONCRETE RESIDUALS AND WASHOUT WASTES THE FOLLOWING BMPS SHALL BE IMPLEMENTED TO CONTROL RESIDUAL CONCRETE, CONCRETE SEDIMENTS, AND RINSE WATER:
 - TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED FOR RINSING OUT CONCRETE TRUCKS. SIGNS
 SHALL BE INSTALLED DIRECTING CONCRETE TRUCK DRIVERS WHERE DESIGNATED WASHOUT FACILITIES ARE LOCATED.

CONTRACT NO. 76949

COUNTY TOTAL SHEE NO NO WASHINGTON 97 9

TO STA.

SECTION

1832 5BR-2

EXISTING CONDITIONS:

- THE CONTRACTOR SHALL HAVE THE LOCATION OF TEMPORARY CONCRETE WASHOUT FACILITIES APPROVED BY THE RESIDENT ENGINEER.
- 3. ALL TEMPORARY CONCRETE WASHOUT FACILITIES ARE TO BE INSPECTED BY THE CONTRACTOR AFTER EACH USE AND ALL SPILLS MUST BE REPORTED TO THE RESIDENT ENGINEER AND CLEANED UP IMMEDIATELY.
- 4. CONCRETE WASTE SOLIDS/LIQUIDS SHALL BE DISPOSED OF PROPERLY.
- C. LITTER MANAGEMENT A PROPER NUMBER OF DUMPSTERS SHALL BE PROVIDED ON SITE TO HANDLE DEBRIS AND LITTER ASSOCIATED WITH THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING HIS/HER EMPLOYEES PLACE ALL LITTER INCLUDING MARKING PAINT CANS, SODA CANS, FOOD WRAPPERS, WOOD LATHE, MARKING RIBBON, CONSTRUCTION STRING, AND ALL OTHER CONSTRUCTION RELATED LITTER IN THE PROPER DUMPSTERS.
- D. VEHICLE AND EQUIPMENT CLEANING VEHICLES AND EQUIPMENT ARE TO BE CLEANED IN DESIGNATED AREAS ONLY, PREFERABLY OFF SITE.
- E. VEHICLE AND EQUIPMENT FUELING A VARIETY OF BMPS CAN BE IMPLEMENTED DURING FUELING OF VEHICLES AND EQUIPMENT TO PREVENT POLLUTION. THE CONTRACTOR SHALL INFORM THE RESIDENT ENGINEER AS TO WHICH BMPS WILL BE USED ON THE PROJECT. THE CONTRACTOR SHALL INFORM THE RESIDENT ENGINEER HOW (SHE WILL BE INFORMING HIS/HER EMPLOYEES OF THESE BMPS (I.E. SIGNS, TRAINING, ETC.). BELOW ARE A FEW EXAMPLES OF THESE BMPS:
 - 1. CONTAINMENT
 - 2. SPILL PREVENTION AND CONTROL
 - 3. USE OF DRIP PANS AND ABSORBENTS
 - 4. AUTOMATIC SHUT-OFF NOZZLES
 - 5. TOPPING OFF RESTRICTIONS
 - 6. LEAK INSPECTION AND REPAIR
- F. VEHICLE AND EQUIPMENT MAINTENANCE ON SITE MAINTENANCE MUST BE PERFORMED IN ACCORDANCE WITH ALL ENVIRONMENTAL LAWS SUCH AS PROPER STORAGE AND NO DUMPING OF OLD ENGINE OIL OR OTHER FLUIDS ON SITE.

VI. FAILURE TO COMPLY:

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

LEGEND

TEMPORARY DITCH CHECK- ROLLED EXCELSIOR, SILT WEDGES/PANELS

TEMPORARY DITCH CHECK- AGGREGATE

EROSION CONTROL BLANKET

PERIMETER EROSION BARRIER- SILT FILTER
FENCE OR OTHER AS APPROVED BY THE ENGINEER

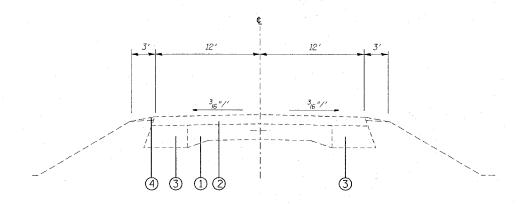
INLET AND PIPE PROTECTION- STRAW BALES, FILTER FABRIC, AGGREGATES

REVISIONS
NAME
DATE
PREVENTION PLAN
FAS ROUTE 1832
SECTION 5BR-2
WASHINGTON COUNTY

DRAWN BY:

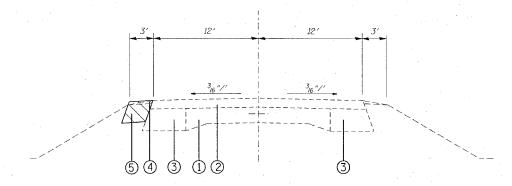
PLOT DATE: 12/7/2007

12/7/2007 ciliprojectsbed091058plan8pin09105a.dgn apre-



EXISTING TYPICAL SECTION

STA. 1449+25.00 TO STA. 1457+50.00



PROPOSED TYPICAL SECTION

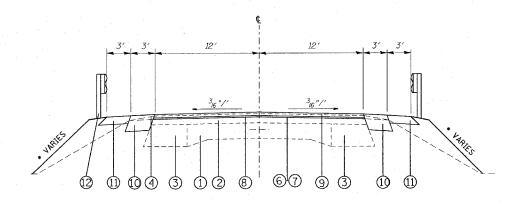
STA. 1449+25.00 TO STA. 1457+50.00 - LT



MIXTURE REQUIREMENTS

·					
MIXTURE USE	SURFACE	BINDER	WIDENING COURSE	INCIDENTAL SURF	SHOULDERS
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 58-22
RAP % (MAX)	10%	15%	15%	10%	30%
DESIGN AIR VOIDS	4.0% @ Ndes= 70	4.0% @ Ndes= 70	4.0% @ Ndes= 70	4.0% @ Ndes=70	2.0% @ Ndes=30
MIX COMPOSITION					
(GRADATION MIXTURE)			1.00		
FRICTION AGG	MIXTURE "D"	MIXTURE "B"	MIXTURE "B"	MIXTURE "C"	BAM

PLAN QUANTITIES FOR HOT-MIX ASPHALT SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN (59.8 KG/SQ M/25 MM THICKNESS).



* SEE CROSS SECTIONS

PROPOSED TYPICAL SECTION

STA. 1449+25.00 TO STA. 1457+50.00

LEGEND

- (1) EXISTING P.C.C. PAVEMENT 9-6-9
- EXISTING BITUMINOUS OVERLAY 6" (±)
- EXISTING BASE COURSE WIDENING 8"
- EXISTING AGGREGATE SHOULDERS
- PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING, 9"
- PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
- PROPOSED AGGREGATE (PRIME COAT)
- PROPOSED HOT-MIX ASPHALT BINDER COURSE (VARIES 3/4" TO 16")
- PROPOSED HOT-MIX ASPHALT SURFACE COURSE, 1/2"
- PROPOSED HOT-MIX ASPHALT SHOULDER, 8 "
- PROPOSED AGGREGATE SHOULDER, TYPE B 6"
- PROPOSED GUARDRAIL

S.N. 095-0077

REVISIONS NAME DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION TYPICAL SECTIONS MIXTURE REQUIREMENT
	FAS ROUTE 1832 SECTION 5BR-2 WASHINGTON COUNTY
	VERT. SCALE: HORIZ. DRAWN BY DATE CHECKED BY

DATE = 12/7/2007
NAME = ciprojects/ad09
SCALE = 50.0000 / IN.
RENCE = \$REF\$

RESURFACING SCHEDULE

STATION	RT/LT	HOT-MIX ASPHALT BS WIDENING 9" (SQ YD)		BIT. MAT'L PRIME COAT (TON)	HMA CONC BINDER SUPER, MIX "B" (TON)	HMA CONC SURF CSE., SUPER., MIX "C", N70 (TON)	INCIDENTAL HMA SURF. (TON)	HMA SHOULDERS 8" (SQ YD)	AGG, SHLD TYPE B 6" (SQ YD)	AGG. BASE COURSE TYPE B 6" (SQ YD)
1449+25.00 TO. 1450+32.00	RT/LT	,			11.98					
1449+25.00 TO 1452+49.50	RT							-		
1449+25.00 TO 1452+83.00	LT	119.33								
1449+25.00 TO 1452+49.50	RT/LT		1.30	0.27		72.69		216.33	216.33	12.100
1450+32.00 TO 1452+49.50	RT/LT				292.32					
1453+47.00 TO 1457+50.00	LT	134.33								
1453+73.50 TO 1457+00.00	RT/LT				341.30				-	
1453+73.50 TO 1457+50.00	RT									
1453+73.50 TO 1457+50.00	RT/LT		1.51	0.31		84.34		251.00	251.00	
1455+97.90 PE	RT						5.08			45.33
1457+00.00 TO 1457+50.00	RT/LT				5.60					
TOTAL		253.67	2.80	0.58	651.21	157.03	5.08	467.33	467.33	45.33

TEMPORARY PAVEMENT MARKING SCHEDULE

						PA	VEMENT MARKI	NG		
	ST	ATION			-	LINE 4" PAVEMENT (FT)	LINE 6" (TEMP. BARR.) (FT)	LINE 24" PAVEMENT (FT)	WORK ZONE PVMT REMOVAL (SQ FT)	PVMT MRKG REMOVAL (SQ FT)
1446+78.00			RT	STOP	BARS			24	48.0	
1446+78.00	TO	1459+97.00		STAGE	1 & 2	5276.00			1758.7	
1446+78.00	TO	1459+97.00	RT/LT							879.3
1446+78.00	TO	1459+97.00	CL							109.9
1448+48.00	TO	1458+27.00		STAGE	1 & 2		1820			
1455+97.90		ENTRANCE	LT	STOP	BARS			12.0	24.0	
1459+97.00			LT	STOP	BARS			24.0	48.0	
SUE	-T0	TAL								
T	OTA	L				5276.0	1820.0	60.0	1878.7	989.3

PAVEMENT MARKING SCHEDULE

				PAVEN	MENT - THERM	IOPLATIC	BRID	GE - POLYUR	EA T-1
s.	TATI	ON		4" WHITE LINE (FT)	YELLOW SKIP DASH LINE 4" (FT)	DBL AMBER RSD REFL PMK (EA)	4" WHITE LINE (FT)	YELLOW SKIP DASH LINE 4" (FT)	DBL AMBER RSD REFL PMK (EA)
1446+77.00	TO	1452+49.50	CL		143.125	7			
1446+77.00	TO	1452+49.50	RT/LT	1145					
1452+49.50	TO	1453+73.50	CL					31	. 2
1452+49.50	TO	1453+73.50	RT/LT				248.00		
1453+73.50	TO	1459+98.00	RT/LT	1249					, , , , , , , , , , , , , , , , , , , ,
1453+73.50	ТО	1459+98.00	CL		156,125	8			
SUE	3- T 0	TAL		2394.00	299.25	15	248.00	31.00	2
•	TOTAL				2693.25	15		279	2

CONTRACT NO. 76949

F.A.S. RTE.	SECTION	С	OUNTY	TOTAL SHEETS	SHEET NO.
1832	58R-2	W	ASHINGTON	97	11
STA		TO	STA		
FED. ROAD	DIST. NO	ILLINOIS	FED. AID	PROJECT	•

GUARDRAIL SCHEDULE

ST	ATI	ON	RT/LT	SPBGR (FT)	TBT - T1 (SPECIAL) (EA)	TBT - T6	GUARDRAIL MRKS TY-A (EA)	BI-DIREC PRISM BARR REFLEC (EA)
1450+50.50	TO	1452+81.75	RT	137.5	1	1	3	
1451+38.00	TO	1452+81.75	LT	50	1	1	2	
1452+79.50	TO	1453+43.50	RT/LT					2
1453+42.50	TO	1455+73.75	LT	137.5	1	1	3	
1453+42.50	TO	1454+86.25	RT	50	1	1	2	
		TOTAL		375	4	4	9	2

PIPE CULVERT SCHEDULE

		LOCATION		DSFL	USFL	CLASS D TYPE 1 18 INCH	END SECT. 18 INCH	
FROM	OFFSET	TO	OFFSET	RT/LT			(FT)	(FT)
1456+00.20	29	1456+25.70	29	RT	436.44	436.63	25.5	2
		TOTAL					25.5	2

REMOVAL SCHEDULE

					PVMT R	EMOVAL			
FROM	L OFFSET	OCATION TO	OFFSET	RT/LT	MAINLINE REMOVAL (SQ YD)	WIDENING REMOVAL (SQ YD)	HMA SURF REMOVAL VAR. DEPTH (SQ YD)	SPBGR (FT)	PIPE CULVERT 18 INCH (FT)
1449+25.00		1450+32.00		RT/LT			285.33		
1449+25.00		1452+83.00		LT		119.33			
1451+05.00		1452+82.00		RT				177.00	
1451+80.00		1452+82.00		LT				102.00	
1452+49.50		1453+00.50		RT/LT	136.00				
1453+29.00		1453+73.50		RT/LT	118.67				
1453+47.00		1454+49.00		RT				102.00	
1453+47.00		1455+25.00		LT				178.00	
1453+47.00	٠.	1457+50.00		LT		134.33			
1456+00.00	25.5	1456+25.40	24.3	RT					25.50
1457+17,00		1457+50.00		RT/LT			88.00		
	TOTAL				254.67	253.66	373.33	559.00	25.50
					508	3.33			

S.N. 095-0077

REVISIONS	TILINOIS	DEPARTMENT OF TRANSPORTATION							
NAME DA	<u>lt</u>								
	— SCHI	EDULE OF QUANTITIES							
·									
		FAS ROUTE 1832							
		SECTION 5BR-2 WASHINGTON COUNTY							
	SCALE: VERT.	DRAWN BY							
L	HORIZ.								
	DATE	CHECKED BY							

FILE NAME - 12/7/2007 FILE NAME - c:\projects\ed@91@5\plan\pln@91@5a.dg PLOT SCALE = 50.0000 // IN. REFERENCE - 8REF8

TREE REMOVAL SCHEDULE

STATION	OFFSET	RT/LT	_ (6 TO	15 l	JNITS	;			OVER	15 (JNITS	<u> </u>	
1450+57.90	32.5	LT				12				[
1450+63.50	30.4	LT			10									
1450+63.50	30.3	LT				12								
1450+63.70	28.7	LT	-		10			-			-			
1450+65.90	32.9	LT	6		10									
1450+82.69			-						20			-		
	31.2	LT	ļ		<u> </u>				20					-
1450+98.04	31.3	LT				12								
1451+05.00	32.5	LT			10									
1451+08.90	32.8	LT	6											
1451+12.00	28.1	LT					15							
1451+13.30	28.0	LT					15							
1451+29.70	30.1	LT			10									
1451+38.80	34.2	LT					15							
1451+39.67	42.4	LT										36		
1451+40.50	34.8	LT	<u> </u>		-			<u> </u>		24		-		
1451+51.60	46.3	LT			-					27	30			
											30			
1451+53.20	31.5	L.T			10			-		-	ļ			
1451+53.77	44.1	LT		- 8	<u> </u>		L		<u> </u>			ļ		
1451+54.67	31.9	LT								24				
1451+62.24	41.5	LT					L	<u></u>	<u></u>		30			
1451+63.48	34.5	LT								24		L		
1451+68.40	33.1	LT	6											
1451+71.60	33.8	LT			10	T	·		T					
1451+73.03	42.3	LT	-	-				-18						
1451+80.05	34.9	LT	6		-									-
1451+80.90	33.0	LT	6	-						ļ		70		
1451+84.40	37.0	LT	ļ				-					36		
1451+85.70	28.6	LT		L				18		ļ	L	L		
1452+01.20	41.0	LT		8						1				
1452+03.85	45.4	LT		8										
1452+16.90	38.9	LT			-							36		
1452+18.40	30.1	LT						18						
1452+19.17	31.3	LT	<u> </u>	-				18						
1452+19.86	30.8	LT				 			 	24		 		
1452+20.50	46.5	LT	6								 			
				_							 			
1452+22.70	44.7	LT.		8	ļ			ļ			-	ļ		
1452+27.89	46.4	LT		8						ļ				
1452+35.77	40.0	LT					15			ļ				
1452+36.50	42.2	LT					L			24				
1452+40.80	44.0	LT	6		-	1								
1452+48.92	39.5	LT	- 6											
1452+51.23	42.0	LT		8		 								
1452+53.86	40.2	LT		8						 				
1452+55.64	36.1	LT	 	<u> </u>	-	 			 	24		-		
1452+62.53	49.4	LT	-			-		-	 	L-7	· ·	-	 	
	-		6		-	-		<u> </u>		 				
1452+66.71	47.5	LT	6		L	-	<u> </u>		<u> </u>	 		<u> </u>	-	_
1452+75.03	31.4	LT			10	ļ	ļ		ļ	<u> </u>	1		ļ	<u> </u>
1452+75.60	32.5	LT	6	<u> </u>								ļ		ļ
1452+81.28	46.7	LT			10				L		<u> </u>			
1452+98.54	26.3	LT		8										L
1452+99.00	26.2	LT	6	-										
1454+04.19	33.3	LT	<u> </u>				 		l	†			44	
1454+04.64	30.8	LT	<u> </u>			-	15	 	<u> </u>	 	 		<u> </u>	
· · · · · · · · · · · · · · · · · · ·	 	 			-	 	13	 	 	24		 		
1454+06.74	32.6	LT	-				ļ			24		+	-	
1454+13.04	31.0	LT	6			-	<u> </u>					ļ	-	
1454+19.94	33.3	LT			<u> </u>			18				ļ	ļ	<u> </u>
1456+85.80	33.0	LT					15	<u> </u>				<u> </u>	<u></u>	
1457+23.60	30.3	LT	L	<u> </u>	Ľ	L	L				L			50
1457+43.90	34.1	LT		-8										
			L							<u> </u>				
SUÉ	3-TOTAL		78	72	80	36	90	90	20	168	60	108	44	50
. 7	OTAL				356						540			

SEEDING SCHEDULE

STA	STA		AREA (SQ FT)	SEEDING CLASS 2 (ACRE)	SEEDING CLASS 1 (ACRE)	NITROGEN FERT. NUTR (POUND)	PHOSPHORUS FERT. NUTR (POUND)	POTASSIUM FERT. NUTR (POUND)	MULCH METHOD 1 (ACRE)
1449+25.00	TO 1457+50.00	LT	6370	0.15		13.16	13.16	13.16	0.15
1449+25.00	TO 1452+79.50	RT	2952		0.1	6.10	6.10	6.10	0.07
1455+92.00	TO 1458+00.00	RT	2113		0.1	4.37	4.37	4.37	0.05
1449+25.00	TO 1457+50.00	RŤ	9568	0.22		19.77	19.77	19.77	0.22
	TOTAL			0.37	0.20	43.40	43.40	43.40	0.49

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJTD FOR SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
STA. 1449+25.00 TO STA. 1452+79.50	197.3	147.9	668.1	-520.2
STA. 1453+43.50 TO STA. 1457+50.00	401.3	301.0	435.0	-134.1
TOTAL	598.6	448.9	1103.1	-654.3

EARTHWORK SCHEDULE (WIDENING)

LOCATION	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJTD FOR SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
STA. 1449+25.00 TO STA. 1452+83.00	30.5	22.9	0.0	22.9
STA. 1453+47.00 TO STA. 1457+50.00	34.3	25.7	0.0	25.7
. TOTAL	64.8	48.6	0.0	48.6

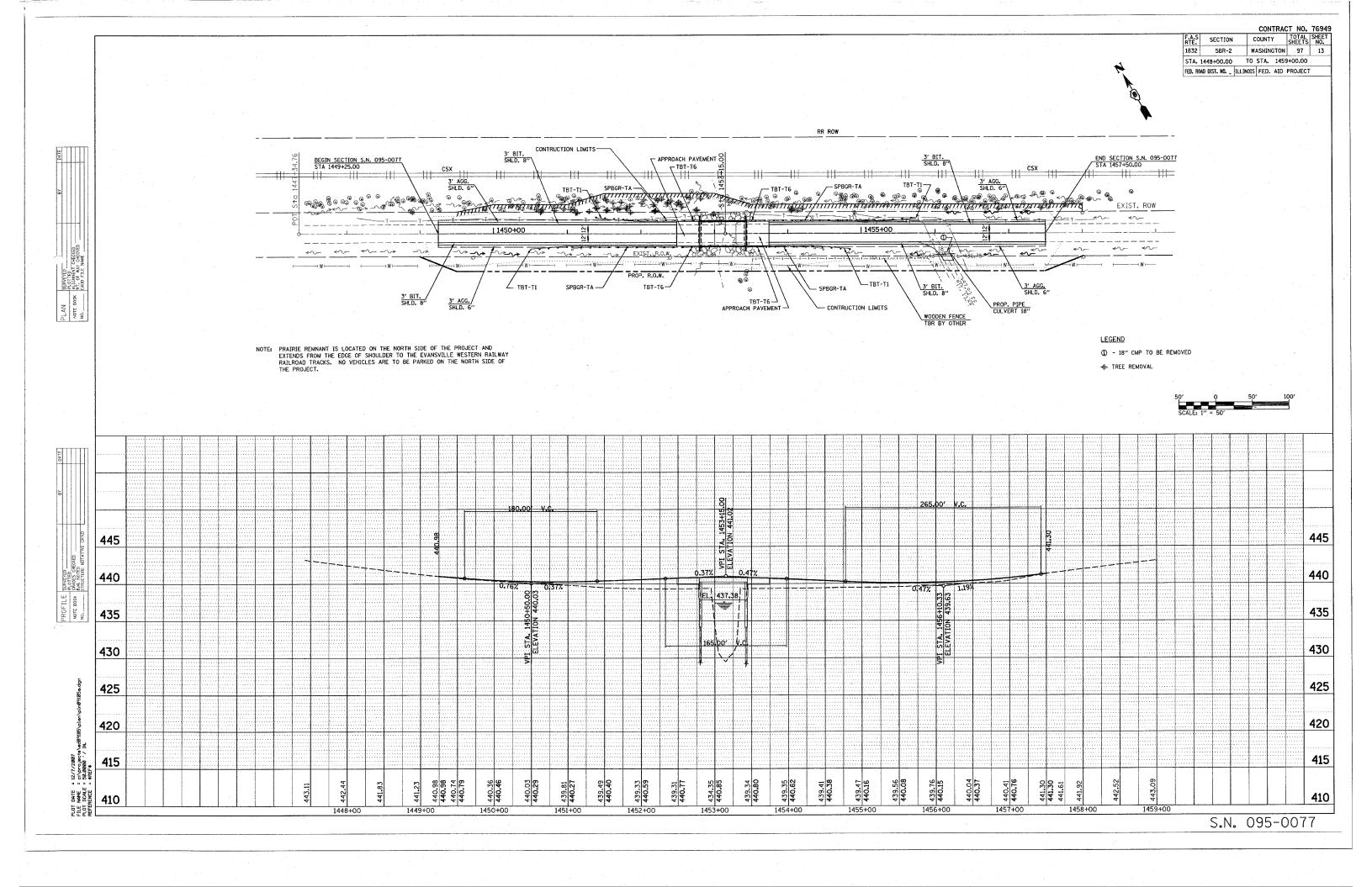
ROW MARKERS SCHEDULE

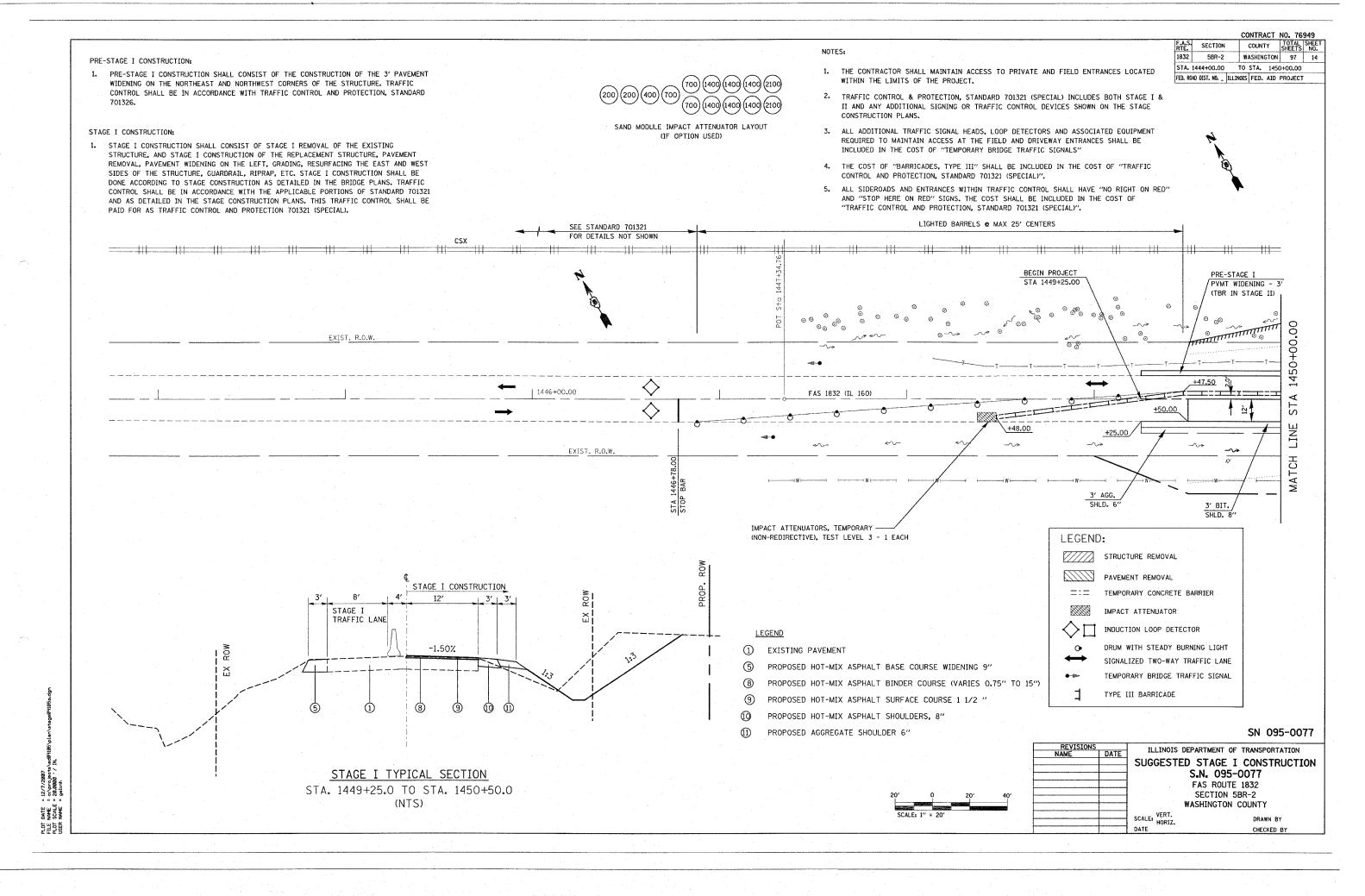
LO	CATION		ROW MARKERS
STATION	SIDE	OFFSET	(EA)
1449+00.00	29.11	L†	1
1449+00.00	30.89	.R†	1
1449+50.00	50.89	R†	1
1450+00.00	39.11	L†	1
1451+00.00	39.12	L†	1
1451+50.00	54.13	L†	1
1453+00.00	54.14	L†	1
1453+50.00	39.14	L+	1
1457+50.00	50.83	R†	1
1458+00.00	30.83	R†	1
1458+00.00	39.17	L†	1
1458+00.00	29.17	L†	1
-	TOTAL		12

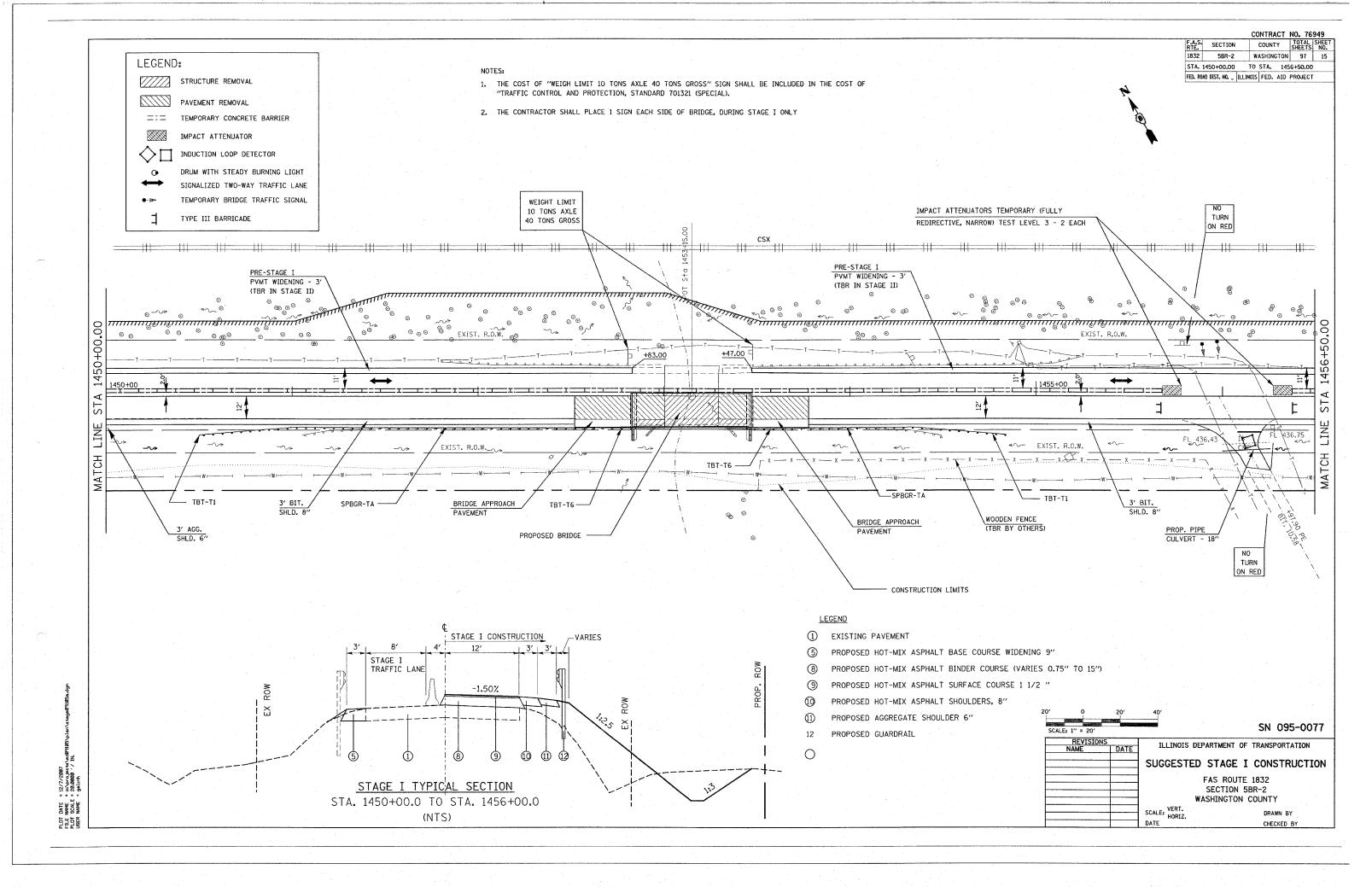
S.N. 095-0077

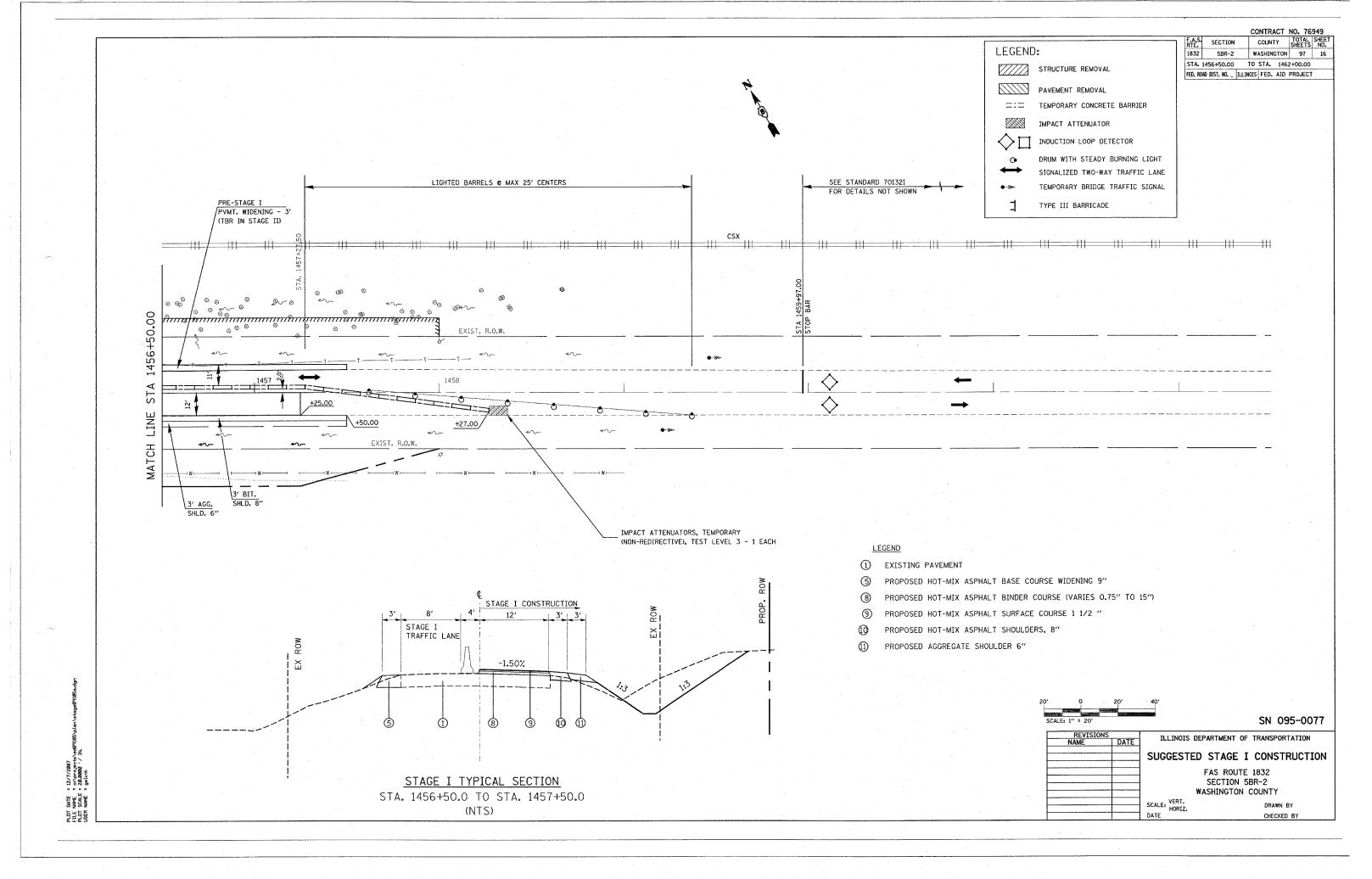
ILLINOIS DEPARTMENT OF TRANSPORTA	ATTO
TELINOIS DEFANTMENT OF TRANSFORTA	4110
SCHEDULE OF QUANTITIE	ES
FAS ROUTE 1832 SECTION 5BR-2	
WASHINGTON COUNTY	
SCALE: VERT. DRAWN BY	r .
DATE CHECKED E	BY

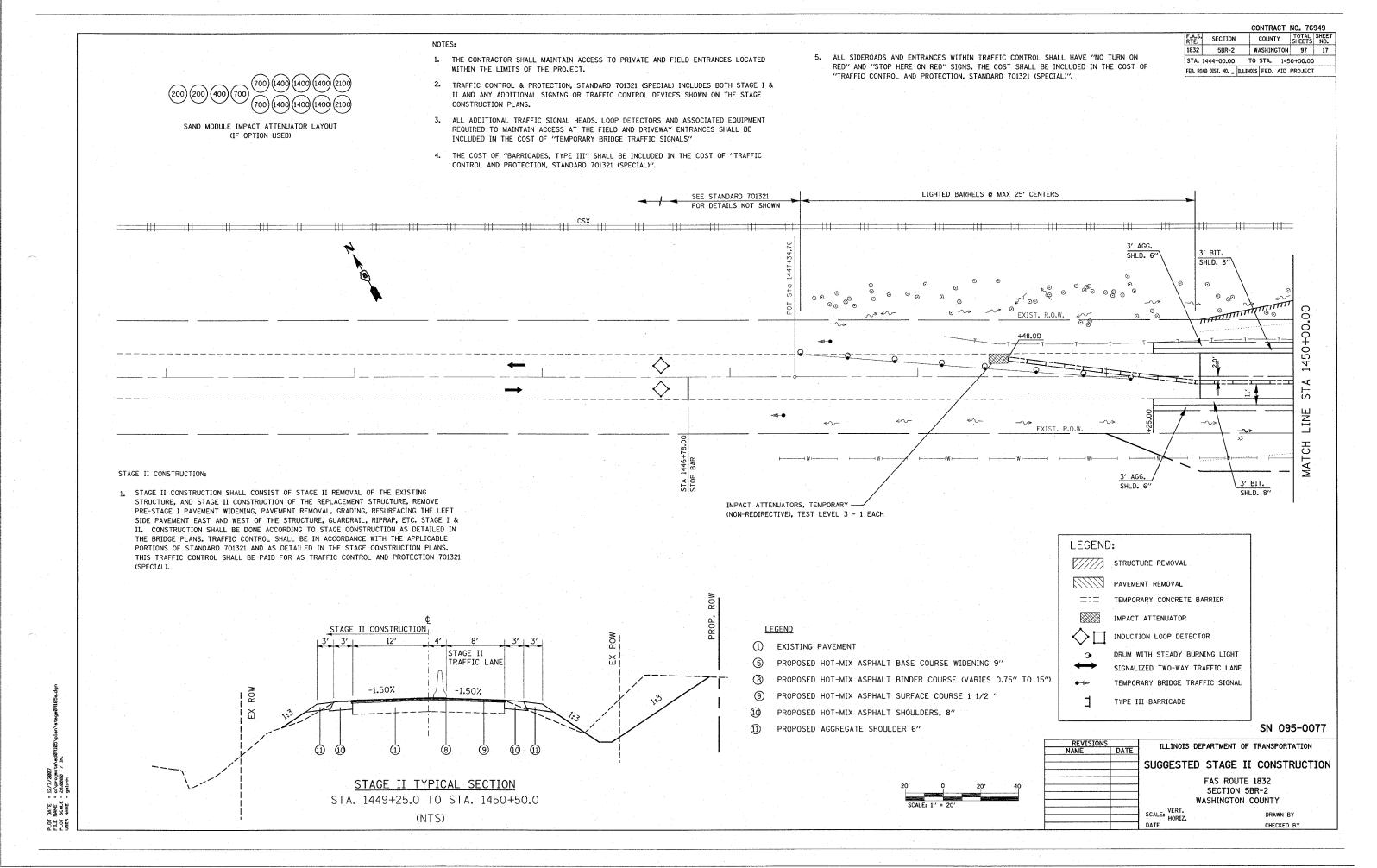
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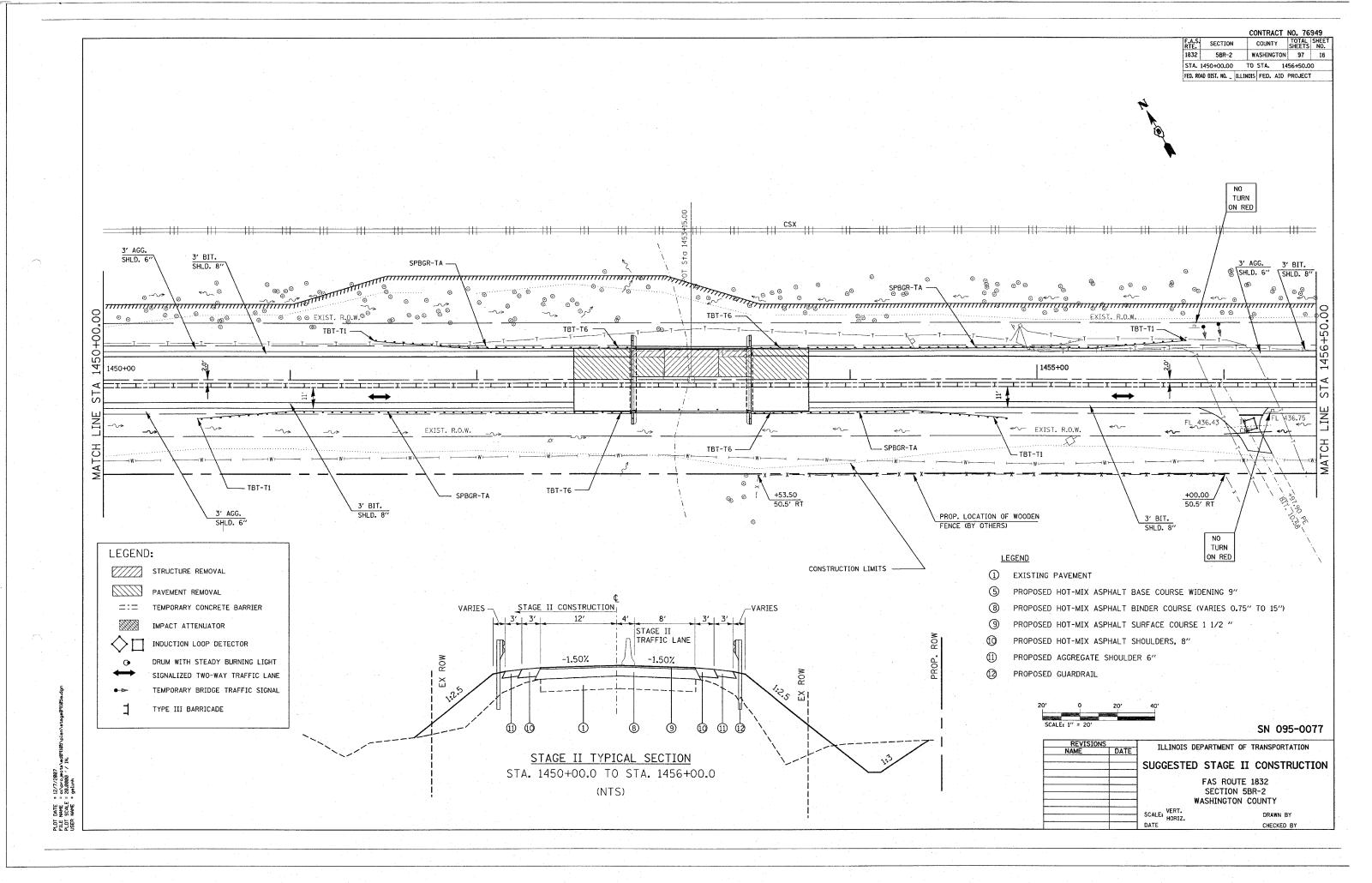


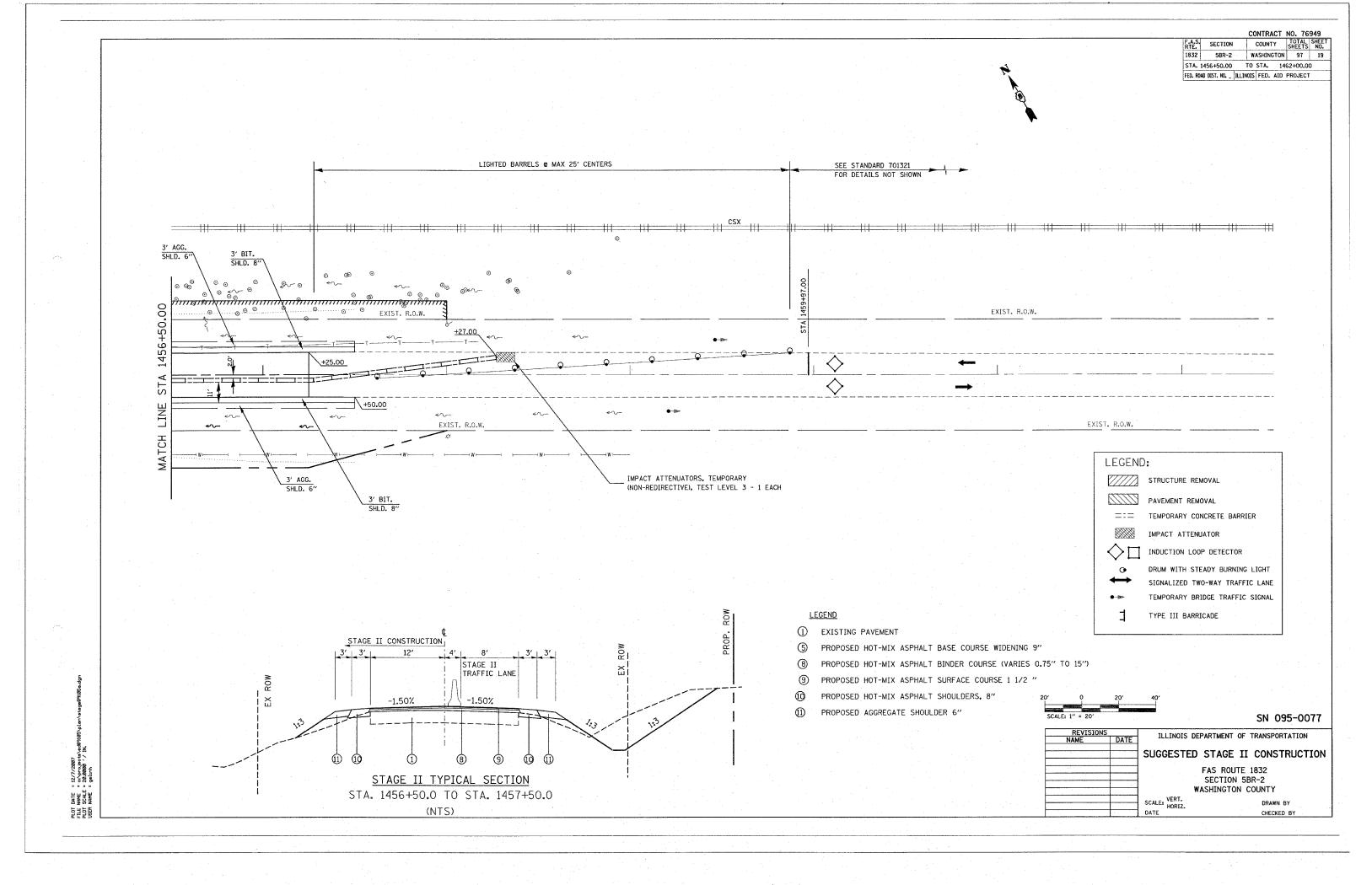




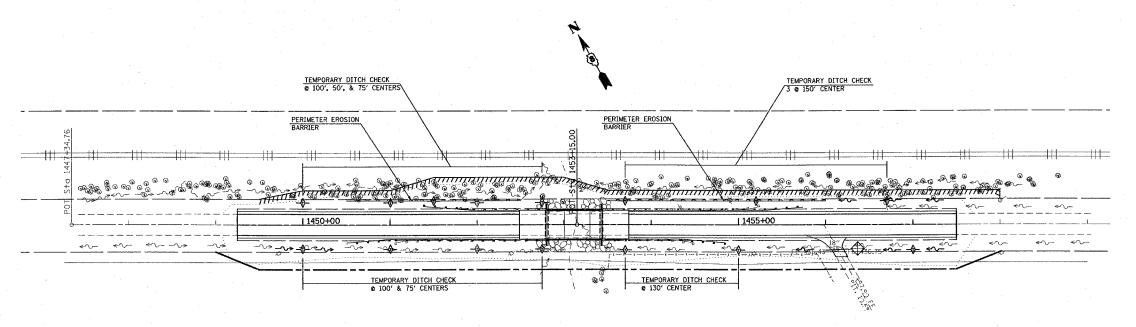








CONTRACT NO. 76949 F.A.S. RTE. 1832 SECTION COUNTY TOTAL SHEET NO. 58R-2 WASHINGTON 97 20 STA. TO STA._ FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT



LEGEND

- INLET AND PIPE PROTECTION STRAW BALES, FILTER FABRIC, AGGREGATES TREE REMOVAL
- TEMPORARY DITCH CHECK ROLLED EXCELSIOR, SILT WEDGES/PANELS

PERIMETER EROSION BARRIER- SILT FILTER
FENCE OR OTHER AS APPROVED BY THE ENGINEER

TEMPORARY EROSION CONTROL SCHEDULE

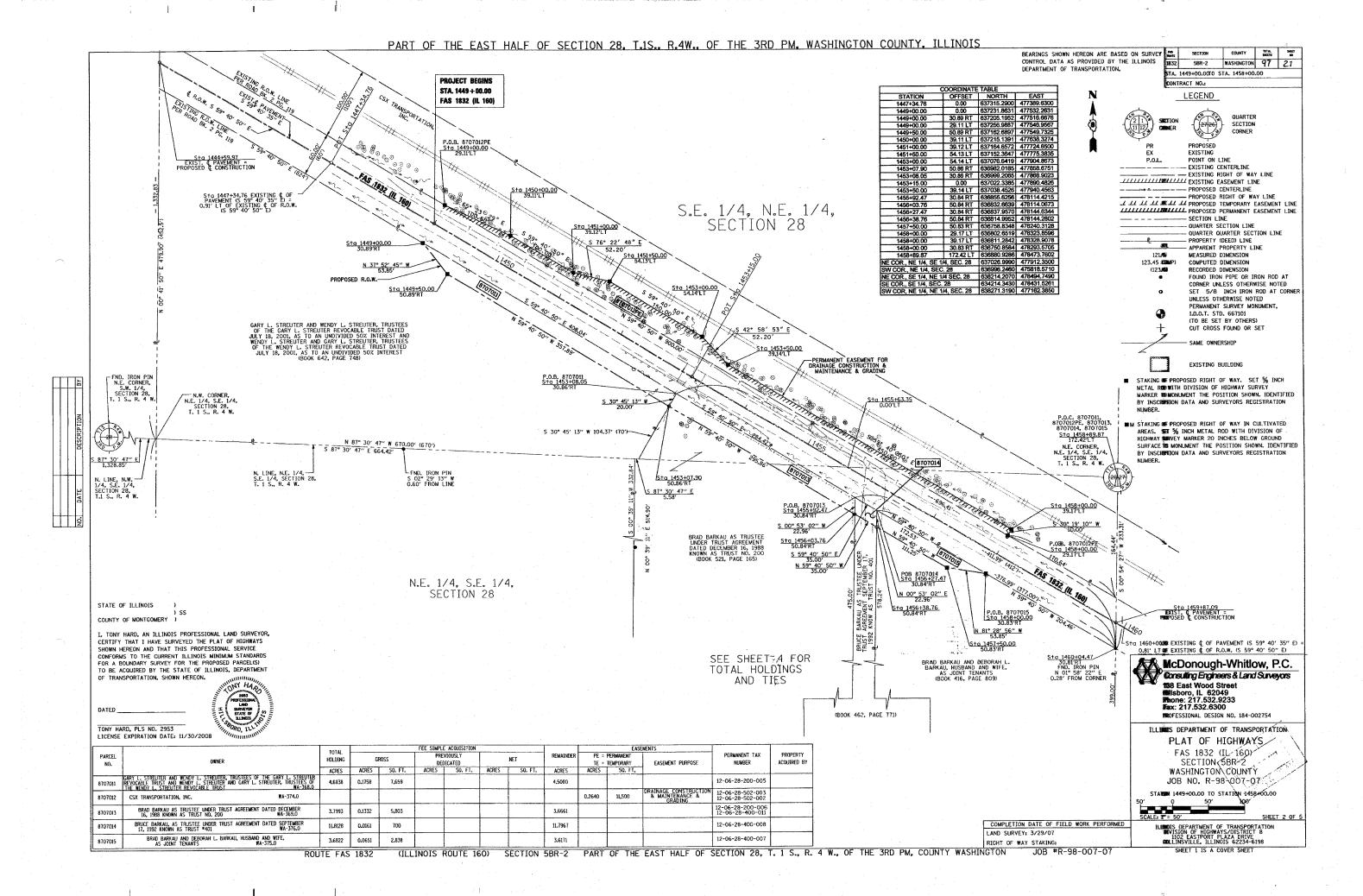
LO	CATI	ON	RT/LT	TEMP. EROSION CONTROL SEEDING (POUND)	MULCH METHOD 1 (ACRE)	PERIMETER EROSION BARRIER (FOOT)	TEMP. DITCH CHECK (EACH)	INLET AND PIPE PROTECTION (EACH)
1449+25.00	TO	1457+50.00	LT	31.50	0.35			
1449+25.00	TO	1457+50.00	RT	39.60	0.44			
1450+00.00	TO	1452+75.00	LT				5	
1450+00.00	TO	1452+75.00	RT				4	
1450+50.00	TO	1452+50.00	LT			200		
1453+50.00	TO	1456+00.00	LT			250		
1453+70.00	TO	1456+70.00	LT				3	
1453+70.00	TO	1457+00.00	RT				3	
1455+97.00		PE		-				1
		TOTAL		71.10	0.79	450	15	1

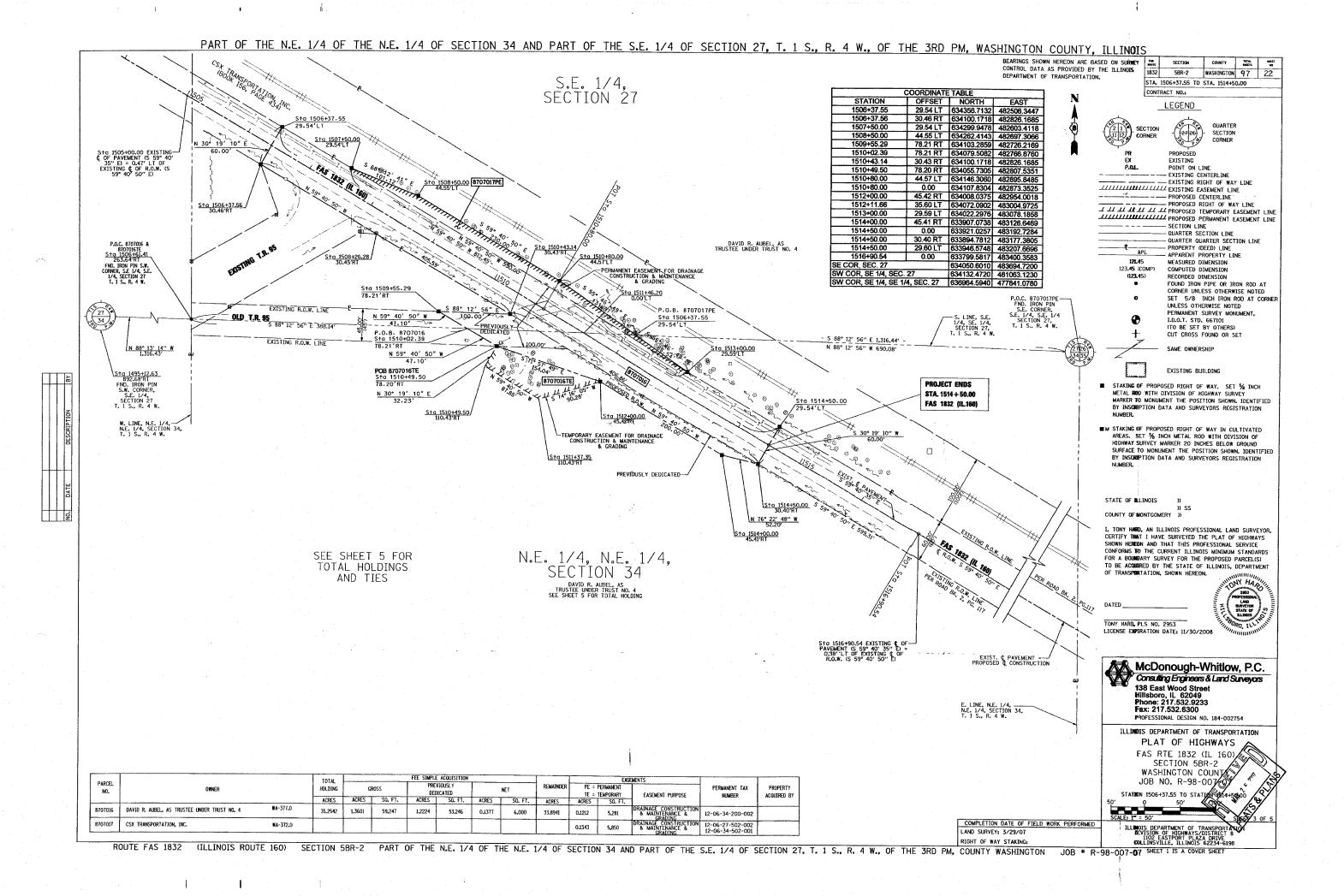


S.N. 095-0077

REVISIONS		TILITNOTS DI	EPARTMENT OF TRANSPORTATION				
NAME	DATE	IELINOIS DI	LI ARTIMENT OF TRANSFORTATION				
		ERO:	SION CONTROL PLAN				
	1		FAS ROUTE 1832				
		SECTION 5BR-2					
	ļ		WASHINGTON COUNTY				
·		SCALE: VERT.	DRAWN BY				
	t	DATE	CHECKED BY				

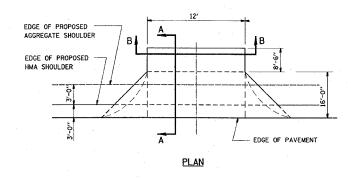
DATE = 12/7/2007 NAME = ciprojects/ed09 SCALE = 50.0000 / IN. ERENCE = \$REF\$

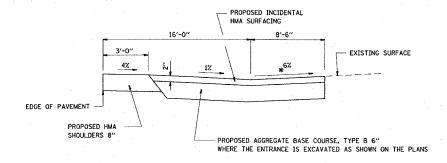




DETAIL OF HMA ENTRANCES

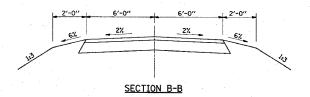
P.E. AT STA. 1455+97.90

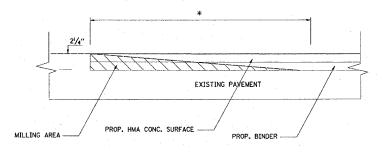




SECTION A-A WITH POSITIVE GRADE

* SEE CROSS SECTIONS FOR SLOPES





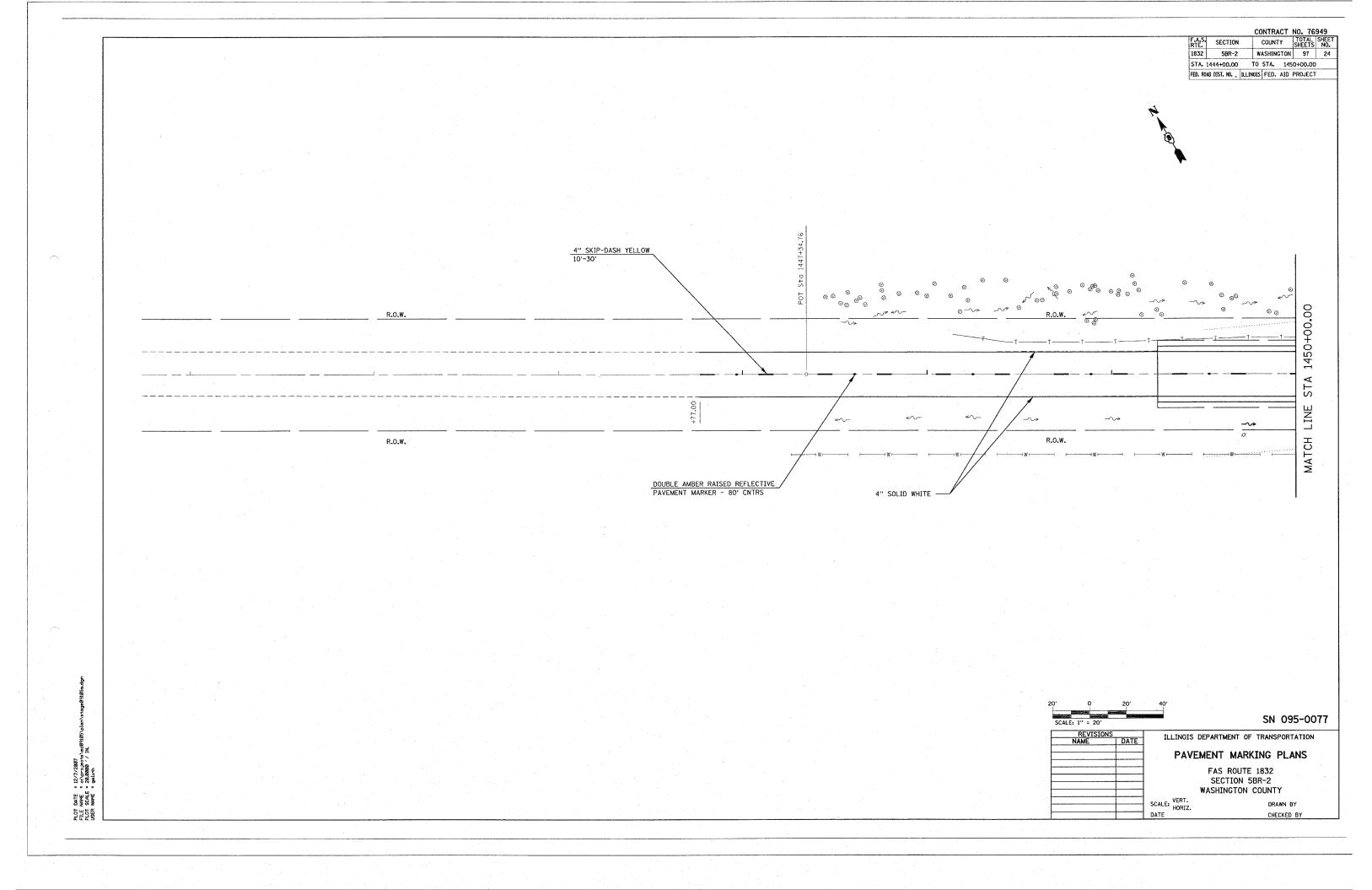
#MA SURFACE REMOVAL DETAIL * BEGINNING STA. 1449+25.0 TO STA. 1450+31.88 ENDING STA. 1457+19.35 TO STA. 1457+00.00 S.N. 095-0077

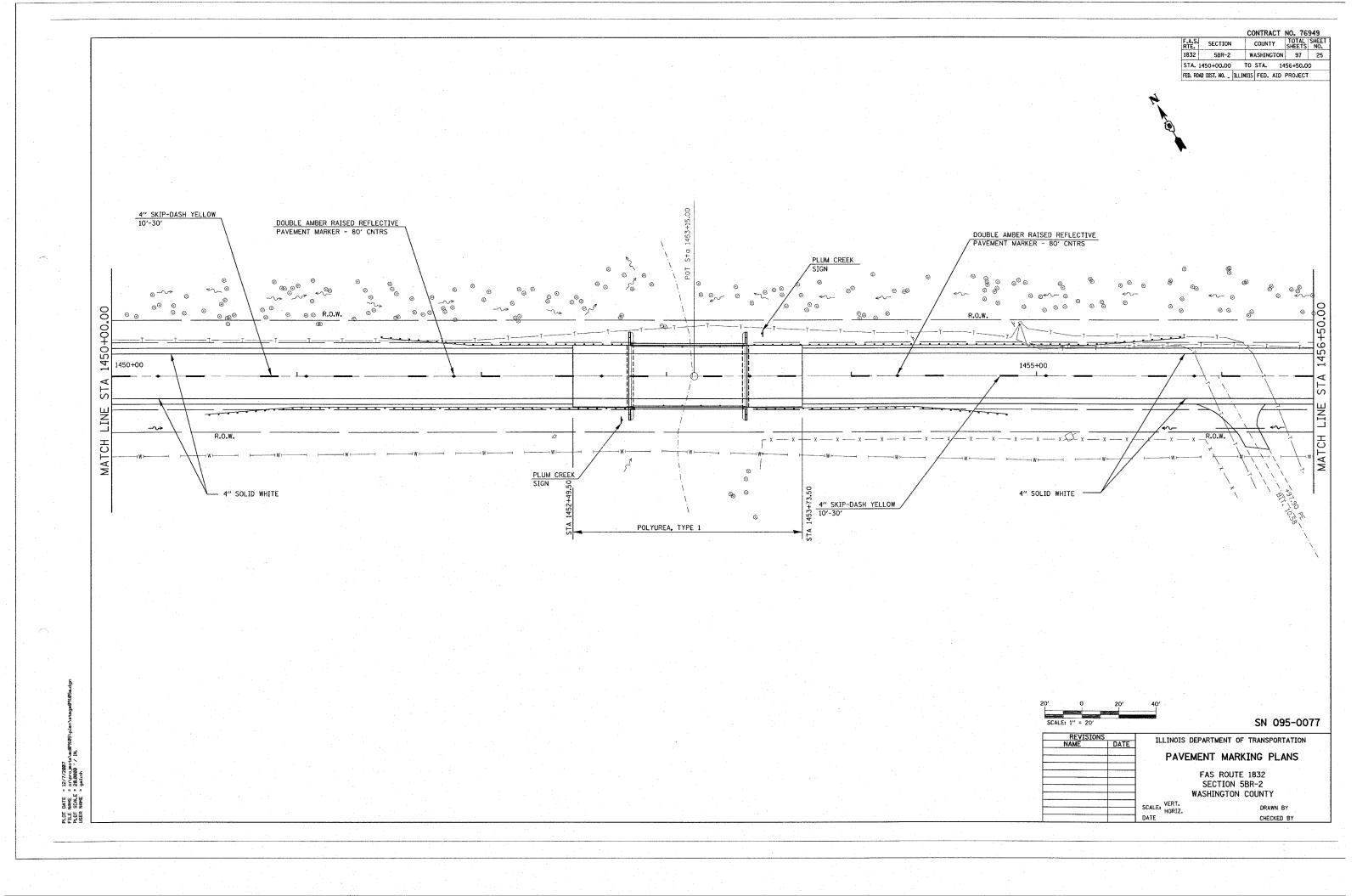
DRAWING

S.N. 095-0077

			REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION		
				NAME	DATE	ILLINOIS DEI ANTMENT	OF TRANSFORTATION
						ENTRANCE	DETAILS
						FAS ROL	JTE 1832
						SECTION	N 5BR-2
							ON COUNTY
NOT	TO	SCALE				SCALE: VERT.	DRAWN BY
.,,,,	, 0	-				DATE	CHECKED BY

PLOT DATE = 12/7/2007 FILE NAME = ct/projects/ed09105/plan/pin09105e PLOT SCALE = 56,0000 / JN.





 CONTRACT
 NO. 76949

 F.A.S. RTE. RTE. 1832
 SECTION SECTION COUNTY SHEETS NO. 1832
 TOTAL SHEETS NO. 1802

 WASHINGTON 97
 26
 STA. 1456+50.00 TO STA. 1462+00.00 FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT DOUBLE AMBER RAISED REFLECTIVE
PAVEMENT MARKER - 80' CNTRS STA MATCH R.O.W. R.O.W. 4" SKIP-DASH YELLOW 10'-30' - 4" SOLID WHITE

SN 095-0077

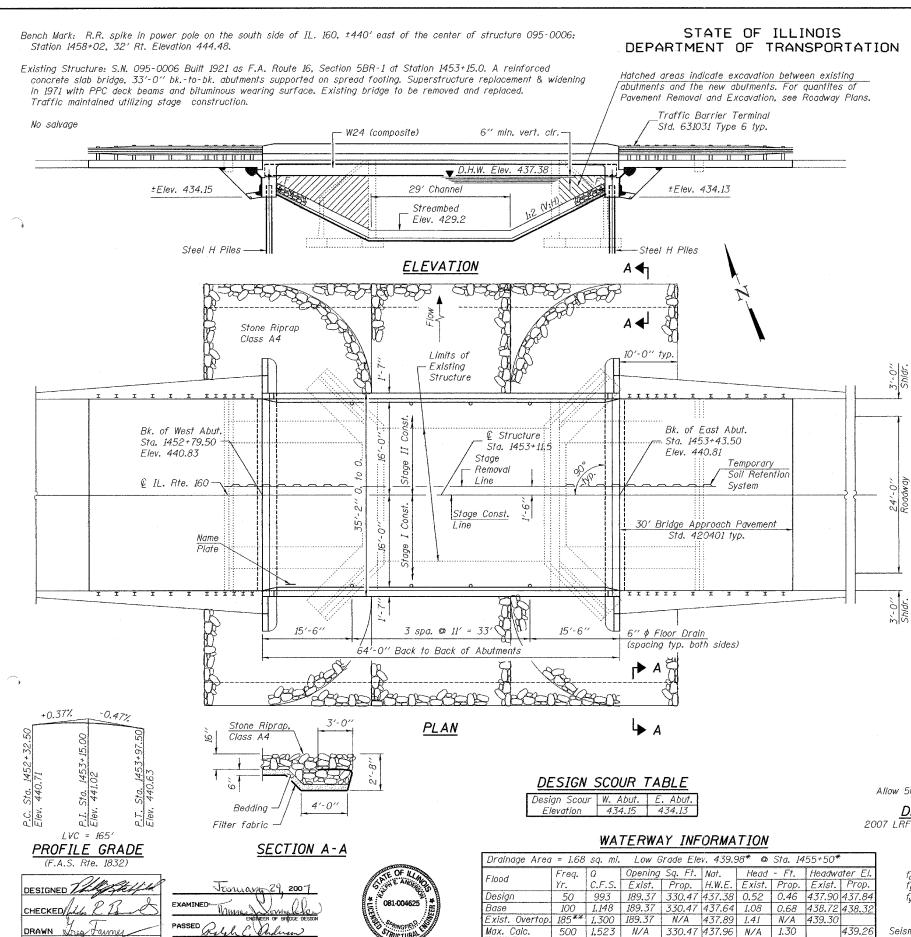
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NAME	DATE	ILLINOIS DEPARTMENT OF TRANSPORTATIO				
		PAVEMENT MARKING PLANS				
		FAS ROUTE 1832				
		SECTION 5BR-2				
		WACHTNICTON COUNTY				

DATE

WASHINGTON COUNTY

SCALE: VERT. DRAWN BY CHECKED BY

PLOT FILE N PLOT USER



EXPIRES 11-30-2008

INDEX OF SHEETS

- General Plan and Elevation Stage Construction Details
- Temporary Concrete Barrier
- Top of Slab Elevations Superstructure
- Superstructure Details
- 10 Diaphragm Details
- Structural Steel Structural Steel Details
- 13 West Abutment
- East Abutment
- Pile Data Cantilever Forming Brackets
- 17 Bar Splicer Details
- 18 Soil Boring Logs

F.A.P. 1832	5BR-2	WASHINGTON		.97	27
FEO. ROAD DIST. NO. 7		ILLINOIS	FEO. ALD PROJECT-		

Contract #76949

SHEETS SHEET NO. 1 18 SHEETS

GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts $\frac{3}{4}$ in. ϕ , holes $\frac{15}{16}$ in. ϕ , unless otherwise noted.

Calculated weight of Structural Steel = 59280 lb.

No field welding is permitted except as specified in the contract documents. Reinforcement bars shall conform to the requirements of ASTM A 706

Gr 60 (IL Modified). See Special Provisions Reinforcement bars designated (E) shall be epoxy coated.

The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Gray, Munsell No. 5B 7/1. See Special Provision for "Cleaning and Painting New Metal Structures".

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

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

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

Slip forming of the parapets is not allowed.

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

TOTAL BILL OF MATERIAL

<u> </u>	<u> </u>			
ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		86	86
Stone Riprap, Class A4	Sq. Yd.			525
Filter Fabric	Sq. Yd.			525
Removal of Existing Structures No. 1	Each			1
Structure Excavation	Cu. Yd.		140	140
Concrete Structures	Cu. Yd.		28.8	28.8
Concrete Superstructure	Cu. Yd.	88.1		88.1
Bridge Deck Grooving	Sq. Yd.	213		213
Protective Coat	Sq. Yd.	281		281
Furnishing and Erecting	L. Sum	1		1
Structural Steel	L. Juni			1
Stud Shear Connectors	Each	1134		1134
Reinforcement Bars, Epoxy Coated	Pound	18200	3760	21960
Bar Splicers	Each	267	18	285
Driving Piles	Foot		245	245
Test Pile Steel, HP12x53	Each		1	1
Furnishing Steel Piles, HP12x53	Foot		245	245
Name Plates	Each	1		1
Anchor Bolts, 1"	Each		24	24
Geocomposite Wall Drain	Sq. Yd.	7.	51	51
Pipe Underdrains for Structures 4"	Foot		138	138
Floor Drains	Each	8		8
Temporary Soil Retention System	Sq. Ft.			364.3
Concrete Encasement	Cu. Yd.		4.2	4.2

LOADING HL-93

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

DESIGN SPECIFICATIONS 2007 LRFD Bridge Design Specifications 4th Edition

STATION BUILT 20 BY STATE OF ILLINOIS F.A.S. RT. 1832 SEC.5BR-2 LOADING HL93 STRUCTURE NO. 095-0077

NAME PLATE

See Std. 515001

DESIGN STRESSES

FIELD UNITS 3,500 DSI

10 632 168.35 289.84 436.60 0.03 -0.04 436.63 436.50

*Proposed Condition (Existing Low Grade Elevation: 439.30 ft. © Sta. 1453+44.76)
**The Proposed Condition Yielded No Overtopping through the 500-Year Frequency

= 50,000 psi (structural steel) = 60,000 psi (reinforcement)

SEISMIC DATA

Seismic Performance Category (SPC) = 2 Bedrock Acceleration Coefficient (A) = .11q Site Coefficient (S) = 1.5



GENERAL PLAN IL. RTE. 160 OVER PLUM CREEK F.A.S. RTE. 1832 - SEC. 5BR-2 WASHINGTON CO. STATION 1453+11.50 STRUCTURE NO. 095-0077

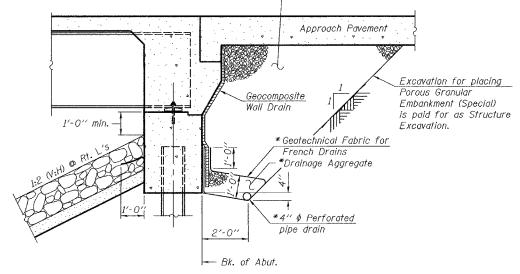
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION 12'-6" Stage I Traffic -|-- € Rdwy. Temp. Conc. Barrier. See Stage I Removal sheet 3 of 18. STAGE I REMOVAL - € Rdwy. Stage I Construction STAGE I CONSTRUCTION 12'-0" Stage II Traffic € Rdwy. -Stage II Removal Barrier, See sheet 3 of 18. STAGE II REMOVAL Stage II Construction STAGE II CONSTRUCTION Notes: All staging sections are looking East. For quantity of Temporary Concrete DESIGNED Phillip R. Litchfie Barrier, see Roadway Plans. Hatched areas indicate removal of CHECKED Nicholas R. Barne existing structure. DRAWN Gregory D. Farmer

Backfill with uncompacted Porous Granular Embankment (Special) by Bridge Contractor after superstructure is in place.



Contract #76949



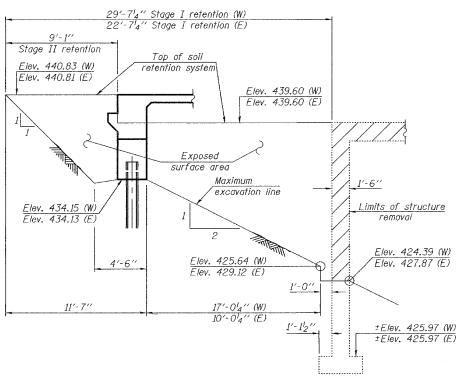
SECTION THRU INTEGRAL ABUTMENT

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

* Included in the cost of Pipe Underdrains for Structures.

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

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



TEMPORARY SOIL RETENTION FOR STAGE CONSTRUCTION

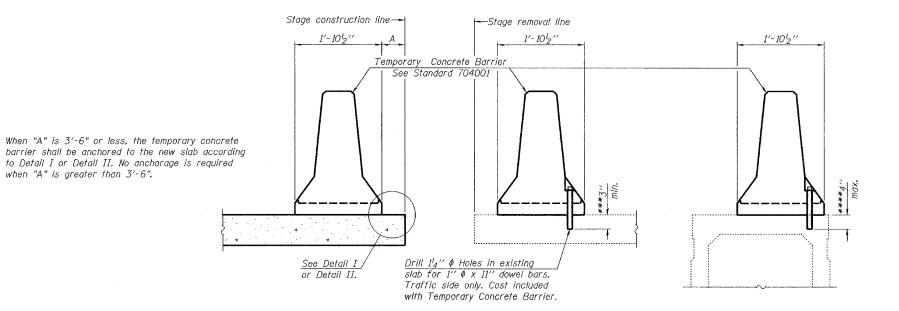
STAGE CONSTRUCTION DETAILS F.A.S. RTE. 1832 - SEC. 5BR-2 WASHINGTON COUNTY STATION 1453+11.50 STRUCTURE NO. 095-0077

CHECKED PRL/NRB

EXISTING DECK BEAM

ROUTE NO.	SECTION	cou	INTY	TOTAL SHEETS	SHEET NO.	SHE	ET NO.
F.A.S. 1832	5BR-2	WASHINGTON		97	29	18	SHEETS
FED. ROAC OLST	. NO. 7	BLLINOIS	PED AID PR	DJECT~			

Contract #76949



NOTES

Detail I - With Bar Splicer or Couplers: Connect one (1) 1"x7"x10" steel P to the top layer of couplers with 2-58" \$\phi\$ bolts screwed to coupler at approximate & of each barrier panel.

Detail II - With Extended Reinforcement Bars: Connect one (1) 1"x7"x10" steel P to the concrete slab or concrete wearing surface with 2-58'0 Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate & of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier. The I" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

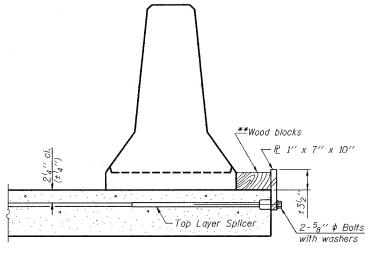
SECTIONS THRU SLAB OR DECK BEAM

EXISTING SLAB

***Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment

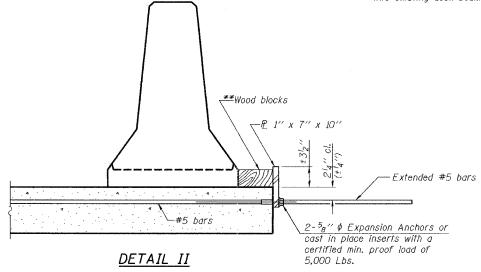
shall be in addition to wearing surface depth.

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

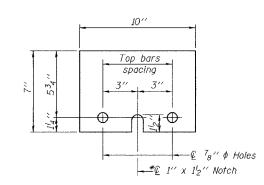


NEW SLAB

DETAIL I



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



STEEL RETAINER & 1" x 7" x 10"

* Required only with Detail II

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION F.A.S. RTE. 1832 - SEC. 5BR-2 WASHINGTON COUNTY STATION 1453+11.50 STRUCTURE NO. 095-0077

DESIGNED Phillip R. Litchfiel CHECKED Nicholas R. Barne DRAWN Gregory D. Farmer CHECKED PRL/NRB

9-3-07

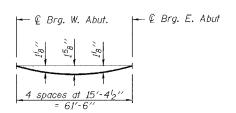
when "A" is greater than 3'-6".

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R-27





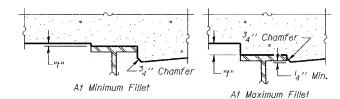


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

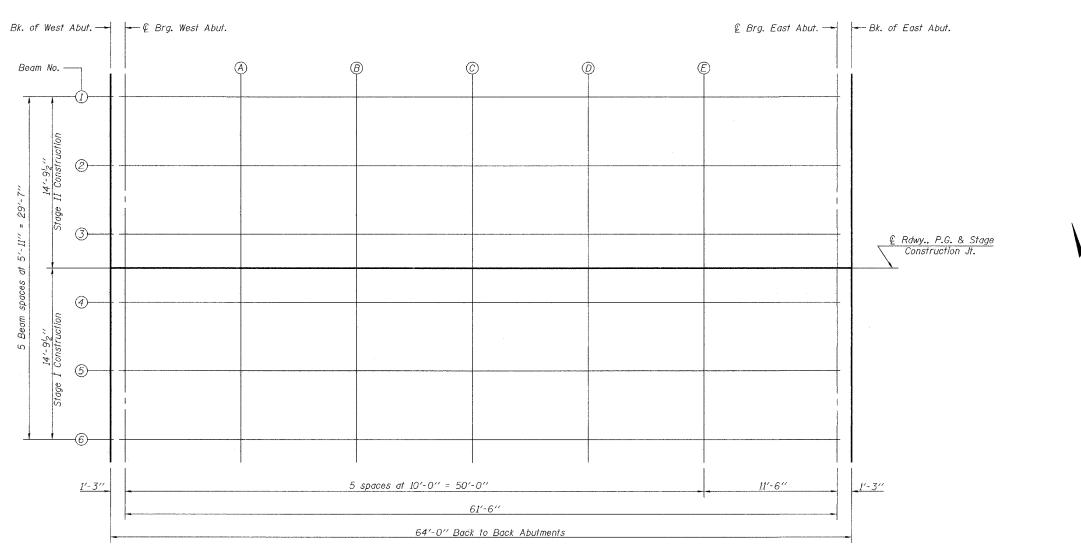
Note:

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 page 5 of 18.



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

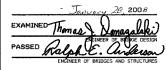
FILLET HEIGHTS



DESIGNED Phillip R. Litchfield

CHECKED Nicholas R. Barnet DRAWN Gregory D. Farmer

CHECKED PRL/NRB



PLAN

TOP OF SLAB ELEVATIONS F.A.S. RTE. 1832 - SEC. 5BR-2 WASHINGTON COUNTY STATION 1453+11.50 STRUCTURE NO. 095-0077

ROUYE NO.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.
F.A.S. 1832	5BR-2	WASHINGTON		97	31
FED. ROAD DIST, NO. 7		B.LINGIS	FED. AID PROJECT-		

18 SHEETS

SHEET NO. 5

Contract #76949

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	145279.50	-14.79	4.4.0.59	440.59
© Brg. W. Abut.	145280.75	-14.79	440.59	440.59
A B C D	145290.75 145300.75 145310.75 145320.75 145330.75	-14.79 -14.79 -14.79 -14.79 -14.79	440.60 440.60 440.60 440.60 440.59	440.66 440.71 440.73 440.71 440.66
⊈ Brg. E. Abut.	145342.25	-14.79	440.57	440.57
Bk. E. Abut.	145343.50	-14.79	440.57	440.57

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	145279.50	-8.87	440.69	440.69
© Brg. W. Abut.	145280.75	-8.87	440.70	440.70
A B C D	145290.75 145300.75 145310.75 145320.75 145330.75	-8.87 -8.87 -8.87 -8.87 -8.87	440.71 440.71 440.71 440.70 440.69	440.77 440.82 440.84 440.81 440.76
⊈ Brg. E. Abut.	145342.25	-8.87	440.68	440.68
Bk. E. Abut.	145343.50	-8.87	440.67	440.67

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	145279.50	-2.96	440.79	440.79
& Brg. W. Abut. A	145280.75 145290.75	-2.96 -2.96	440.79	440.79 440.86
B C D E	145300.75 145310.75 145320.75 145330.75	-2.96 -2.96 -2.96 -2.96	440.80 440.80 440.80 440.79	440.91 440.93 440.91 440.86
₡ Brg. E. Abut.	145342.25	-2.96	440.77	440.77
Bk. E. Abut.	145343.50	-2.96	440.77	440.77

@ RDWY, P.G. & STAGE CONSTRUCTION JOINT

Location - :	Station · · ·	Offset -	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	145279.50	0.00	440.83	440.83
⊈ Brg. W. Abut.	145280.75	0.00	440.83	440.83
A	145290.75	0.00	440.84	440.91
B	145300.75	0.00	440.85	440.95
C	145310.75	0.00	440.85	440.98
D	145320.75	0.00	440.84	440.95
E	145330.75	0.00	440.83	440.90
© Brg. E. Abut. (Bk. E. Abut.	145342.25	0.00	440.81	440.81 440.81

BEAM 4

Location	Station	Offset -	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	145279.50	2.96	440.79	440.79
₡ Brg. W. Abut.	145280.75	2.96	440.79	440.79
A B C D E	145290.75 145300.75 145310.75 145320.75 145330.75	2.96 2.96 2.96 2.96 2.96	440.80 440.80 440.80 440.80 440.79	440.86 440.91 440.93 440.91 440.86
₡ Brg. E. Abut.	145342.25	2.96	440.77	440.77
Bk. E. Abut.	145343.50	2.96	440.77	440.77

BEAM 5

Location	. Station	- Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection		
Bk. W. Abut.	145279.50	8.88	440.69	440.69		
€ Brg. W. Abut.	145280.75	8.88	440.70	440.70		
A B C D	145290.75 145300.75 145310.75 145320.75 145330.75	8.88 8.88 8.88 8.88 8.88	440.71 440.71 440.71 440.70 440.69	440.77 440.82 440.84 440.81 440.76		
€ Brg. E. Abut.	145342.25	8.88	440.68	440.68		
Bk. E. Abut.	145343.50	8.88	440.67	440.67		

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	145279.50	14.79	440.59	440.59
€ Brg. W. Abut.	145280.75	14.79	440.59	440.59
A B C D E	145290.75 145300.75 145310.75 145320.75 145330.75	14.79 14.79 14.79 14.79 14.79	440.60 440.60 440.60 440.60 440.59	440.66 440.71 440.73 440.71 440.66
© Brg. E. Abut.	145342.25	14.79	440.57	440.57
Bk. E. Abut.	145343.50	14.79	440.57	440.57

DESIGNED Phillip R. Litchfield CHECKED Nicholas R. Barnett DRAWN Gregory D. Farmer

TOP OF SLAB ELEVATIONS F.A.S. RTE. 1832 - SEC. 5BR-2 WASHINGTON CO. STATION 1453+11.50 STRUCTURE NO. 095-0077

CHECKED PRL/NRB

ROUTE NO.	SECTION	co	UNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 6
F.A.S. 1832	5BR-2	WASH	INGTON	97	32	18 SHEETS
FED. ROAD DIST	r. NG. 7	ILLINGIS FED. AID PROJECT-				

Offset

0.00

0.00

0.00

heoretical Grade

Elevations

440.77

440.80 440.82

440.83

Contract #76949

@ ROADWAY, P.G. & STAGE CONST. JOINT

Station

145249.50

145259.50 145269.50

145279.50

Location

End of W. Appr. Pavement

Back of W. Abutment.

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End of W. Appr. Pavement	145249.50	-16.00	440.50
A B	145259.50 145269.50	-16.00 -16.00	440.53 440.55
Back of W. Abutment	145279.50	-16.00	440.56

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations			
End of W. Appr. Pavement	145249.50	-12.00	440.58			
A B	145259.50 145269.50	-12.00 -12.00	440.61 440.63			
Back of ₩. Abutment	145279.50	-12.00	440.64			

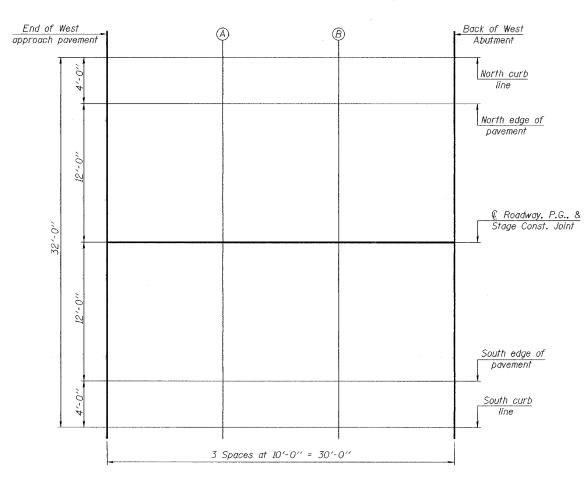
SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End of W. Appr. Pavement	145249.50	12.00	440.58
A B	145259.50 145269.50	12.00 12.00	440.61 440.63
Back of W. Abutment	145279.50	12.00	440.64

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End of W. Appr. Pavement	145249.50	16.00	440.50
A B	145259.50 145269.50	16.00 16.00	440.53 440.55
Back of W. Abutment	145279.50	16.00	440.56

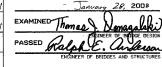
TOP OF WEST APPROACH SLAB ELEVATIONS F.A.S. RTE. 1832 - SEC. 5BR-2 WASHINGTON COUNTY STATION 1453+11.50 STRUCTURE NO. 095-0077



PLAN

DESIGNED Phillip R. Litchfield

DRAWN Gregory D. Farmer CHECKED PRL/NRB



ROUTE NO.	BECTION	COUNTY		TOTAL SHEETS	SHEET NO.	SHEET NO.	7
F.A.S. 1832	5BR-2	WASHINGTON		97	33	<i>18</i> SHEETS	
FED. ROAD OIST	. NO. 7	ILLINOIS	FEO. AID PROJECT-				

Contract #76949

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Back of E. Abutment	145343.50	-16.00	440.54
A B	145353.50 145363.50	-16.00 -16.00	440.52 440.49
End of E. Appr. Pavement	145373.50	-16.00	440.46

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Back of E. Abutment	145343.50	-12.00	440.62
A B	145353.50 145363.50	-12.00 -12.00	440.60 440.58
End of E. Appr. Pavement	145373.50	-12.00	440.54

@ ROADWAY, P.G., & STAGE CONST. JOINT

Location	Station	Offset	Theoretical Grade Elevations
Back of E. Abutment	145343.50	0.00	440.81
A B	145353.50 145363.50	0.00 0.00	440.79 440.76
End of E. Appr. Pavement	145373.50	0.00	440.73

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Back of E. Abutment	145343.50	12.00	440,62
A B	145353.50 145363.50	12.00 12.00	440.60 440.58
End of E. Appr. Pavement	145373.50	12.00	440.54

North curb

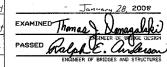
Location	Station	Offset	Theoretical Grade Elevations
Back of E. Abutment	145343.50	16.00	440.54
A B	145353.50 145363.50	16.00 16.00	440.52 440.49
End of E. Appr. Pavement	145373.50	16.00	440.46

<u>SOUTH CURB LINE</u>				
Location	Station	Offset	Theoretical Grade Elevations	
Back of E. Abutment	145343.50	16.00	440.54	
A B	145353.50 145363.50	16.00 16.00	440.52 440.49	
End of E. Appr. Pavement	145373.50	16.00	440.46	

End of East approach pavement Back of East Abutment North edge of pavement © Roadway, P.G., & Stage Const. Joint South edge of pavement 3 spaces at 10'-0'' = 30'-0''

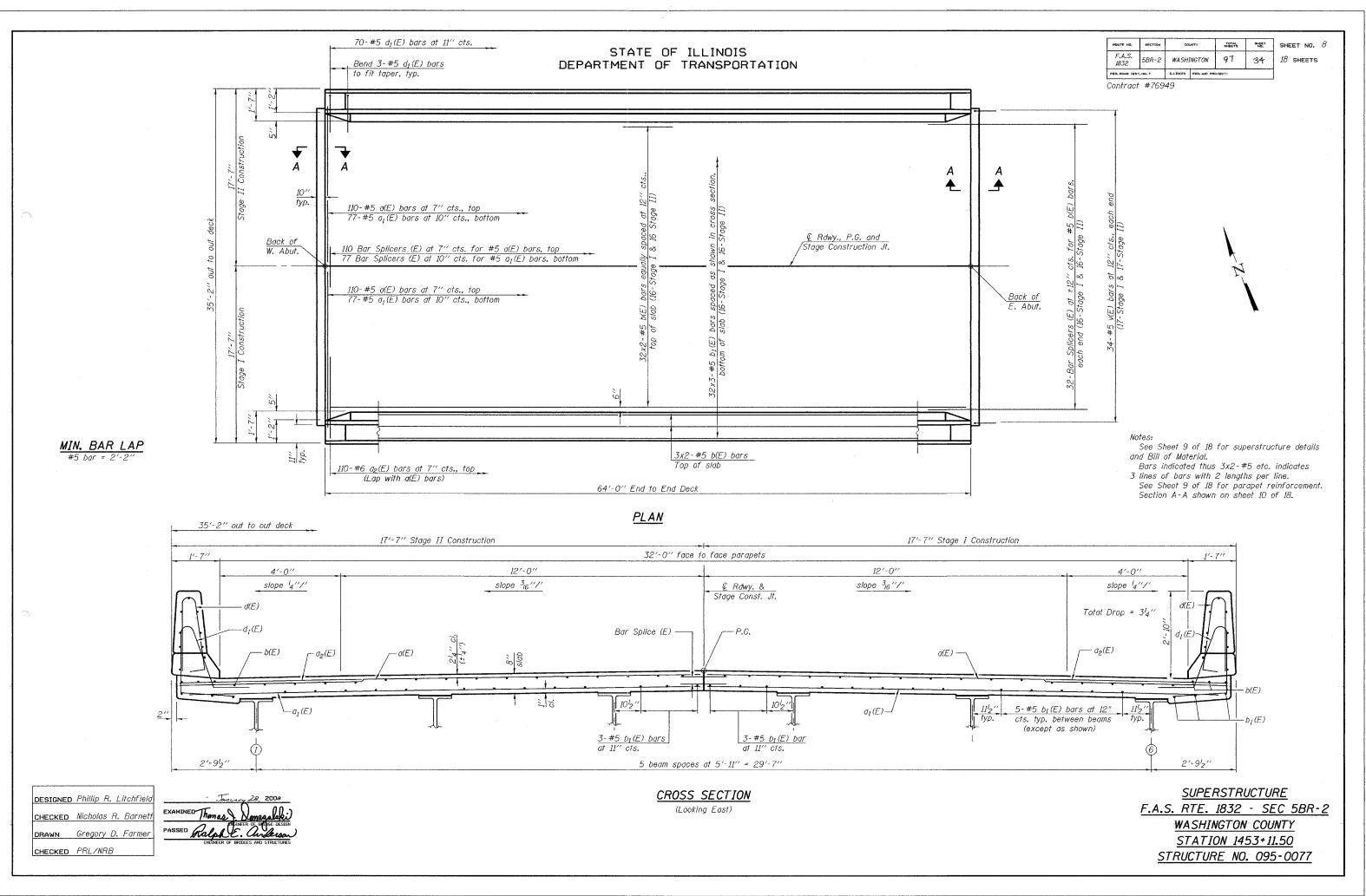
PLAN

DESIGNED Phillip R. Litchfield CHECKED Nicholas R. Barnett DRAWN Gregory D. Farmer

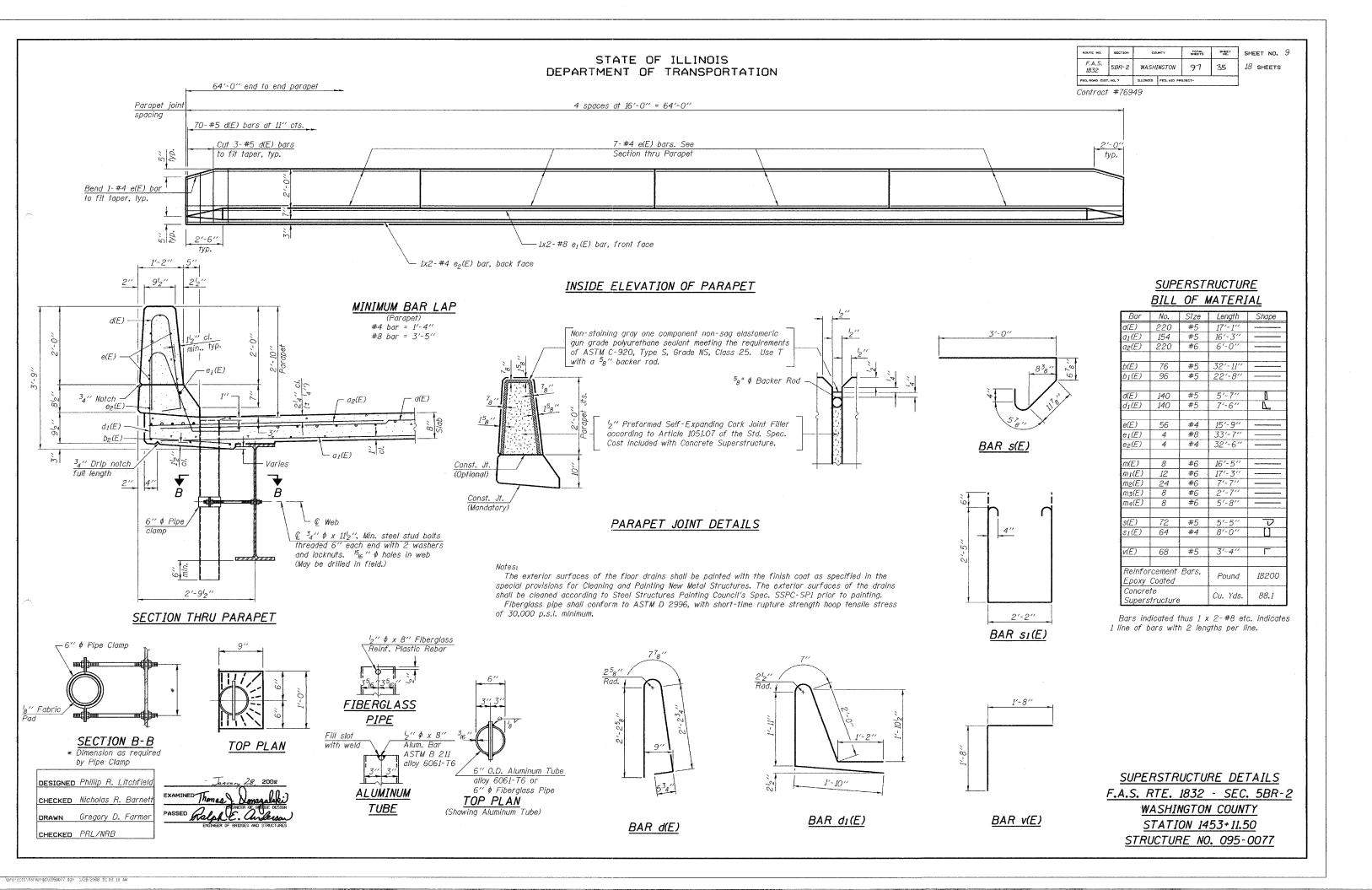


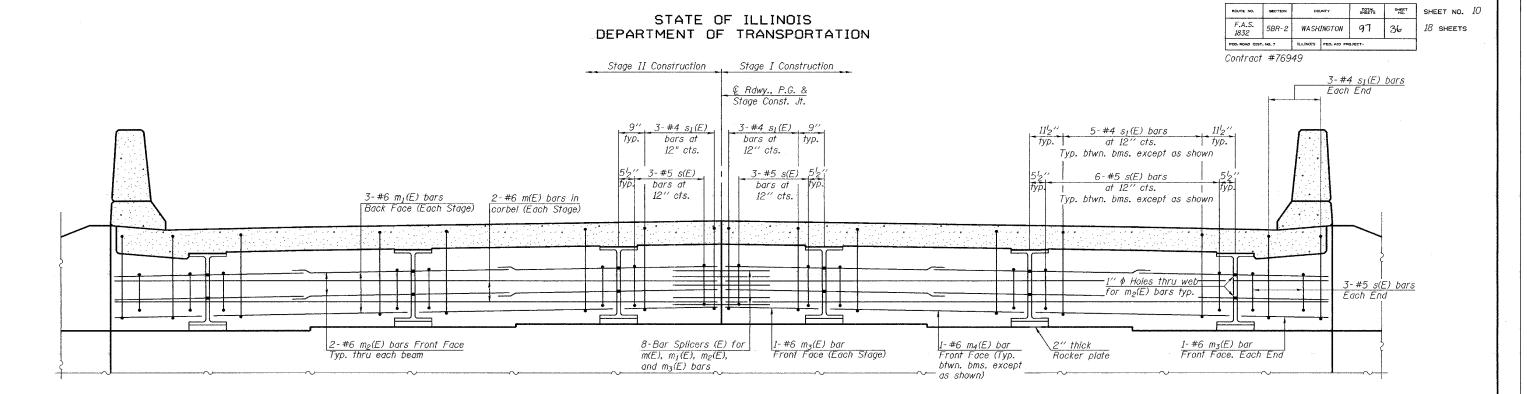
TOP OF EAST APPROACH SLAB ELEVATIONS F.A.S. RTE. 1832 - SEC. 5BR-2 WASHINGTON COUNTY STATION 1453+11.50 STRUCTURE NO. 095-0077

CHECKED PRL/NRB



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DIAPHRAGM ELEVATION AT ABUTMENT

(East diaphragm shown, looking East. West diaphragm similar)

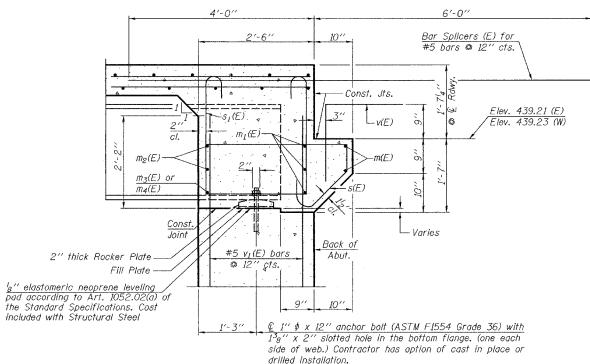
MIN. BAR LAP #6 Bar = 2'-9"

Notes: Reinforcement bars in diaphragm are billed with Superstructure on sheet 9 of 18.

Concrete in diaphragm is included with Concrete Superstructure on sheet 9 of 18.

For detail of s(E) and s₁(E) bars see sheet 9 of 18.

The s(E) and $s_I(E)$ bars shall be placed parallel to the beam.



CHECKED Nicholas R. Barnett EXAMINED Thomas Domasalki

DRAWN Gregory D. Farmer

CHECKED PRL/NRB

PASSED GALLE CONSTRUCTORS

PASSED GALLE CONSTRUCTORS

SECTION A-A

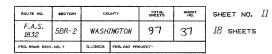
DIAPHRAGM DETAILS

F.A.S. RTE. 1832 - SEC. 5BR-2

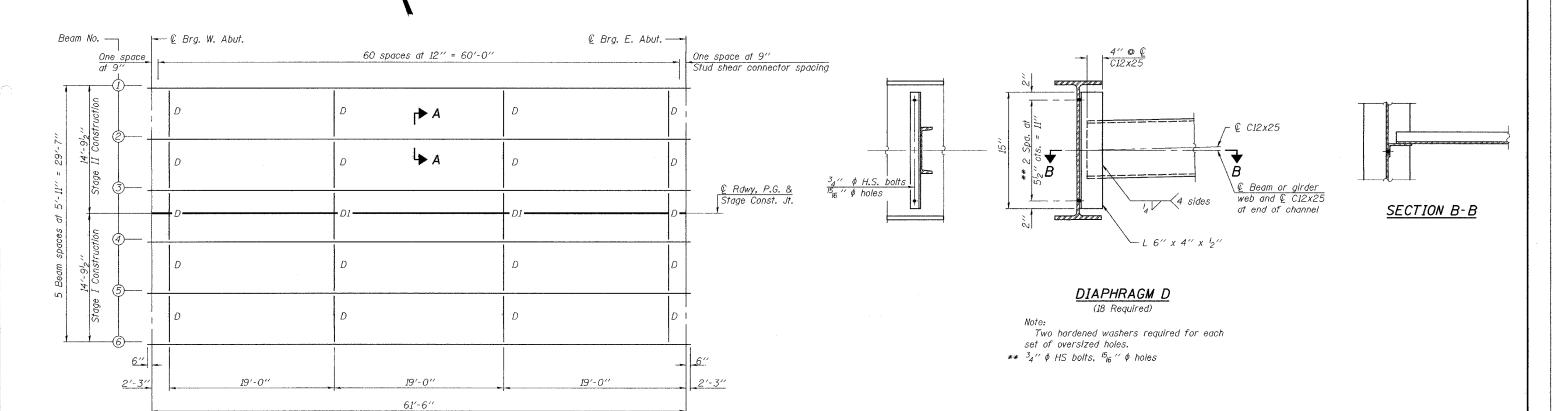
WASHINGTON COUNTY

STATION 1453+11.50

STRUCTURE NO. 095-0077



Contract #76949





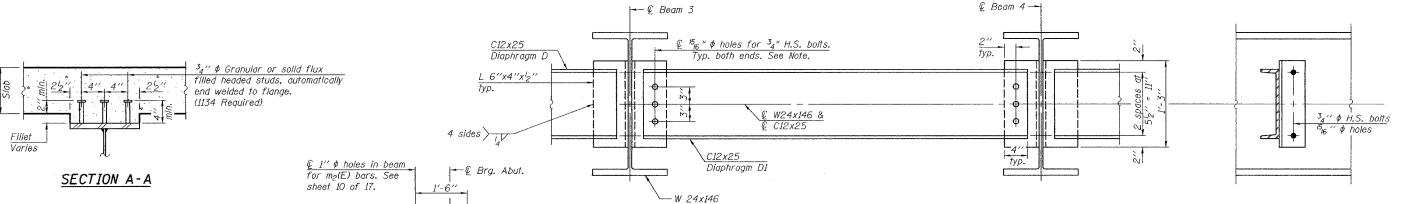
1'-0'' 6'

W24X146

TYP. END OF BEAM ELEVATION

138" x 2"

slotted holes



EXAMINED Thomas Domashki
PASSED ASLAL ENGLISH OF BRIDGE BESTING
PROSED BESTING BESTING
ENGINEER OF BRIDGES AND STRUCTURES

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

Load carrying components designated "NTR" shall conform to the

DIAPHRAGM D1
(2 Required)

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

STRUCTURAL STEEL

F.A.S. RTE. 1832 - SEC. 5BR-2

WASHINGTON COUNTY

STATION 1453+11.50

STRUCTURE NO. 095-0077

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CHECKED PRL/NRB

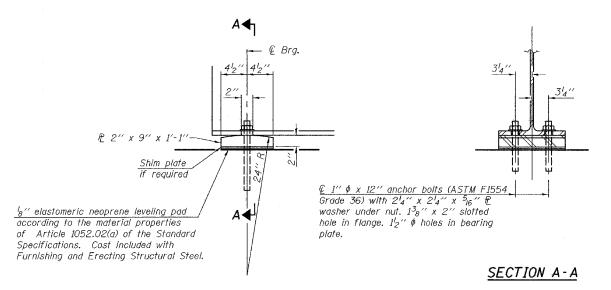
DESIGNED Phillip R. Litchfield

CHECKED Nicholas R. Barnet

Gregory D. Farmer

ROUTE NO.	SECTION	co	COUNTY TOTAL SHEET		SHEET NO.	12	
F.A.S. 1832	5BR-2	WASH	INGTON	97	38	<i>18</i> SHEETS	
FEO. ROAD DIST	. NO. 7	ILLINOIS	FEO. AID PR	DJECT-			

Contract #76949



ELEVATION AT ABUTMENT

FIXED BEARING

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.

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

Two '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.

INTERIOR BEAM N	<i>MOMEN</i> 7	TABLE
		0.5 Sp.
$I_{\mathcal{S}}$	(in ⁴)	4580
$I_{\sigma}(n)$	(in ⁴)	12183
I _c (3n)	(in ⁴)	8715
Ss	(in ³)	371
Se(n)	(in ³)	544
Se(3n)	(in ³)	487
DC1	(k/')	0.773
M DC1	('k)	365.5
DC2	(k/')	0.150
M DC2	('k)	70.9
DW	(k/')	0.296
Mow	('k)	139.8
M Ł + Imp	('k)	708.3
Mu(Strength I)	('k)	1994.7
$\phi_f M_D$	('k)	2567.3
fs DC1	(ksi)	11.82
f _s DC2	(ksi)	1.75
f _s DW	(ksi)	3.44
fs 1.3(4+I)	(ksi)	20.31
fs (Service II)	(ksi)	37.32
fs (Total)(Strength I)	(ksi)	-
Vf	(k)	21.7

INTERIOR	R GIRDER RE HL93 Loa	EACTION TABLE ding
		Abut.
Roci	(k)	23.8
R _{DC2}	(k)	4.6
Row	(k)	9.1
R4. + Imp	(k)	67.0
RTotal	(k)	104.5

I_s , S_s :	Non-composite moment of inertia and section modulus of the steel section used for computing f _s (Total-Strength I, and Service II) due to non-composite dead loads (in. ⁴ and in. ³).
$I_{c}(n)$, $S_{c}(n)$:	Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, " n ", used for computing f_s (Total-Strength I, and Service II) due to short-term composite live loads (in.4 and in.3).
I _c (3n), S _c (3n):	Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) due to long-term composite (superimposed) dead loads (in.4 and in.3).
DC1:	Un-factored non-composite dead load (kips/ft.).
M DC1 :	Un-factored moment due to non-composite dead load (kip-ft.).
DC2:	Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
MDC2:	Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
DW:	Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
Mow:	Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
MŁ + Imp:	Un-factored live load moment plus dynamic load allowance (Impact) (kip-ft.).
Mu (Strength I):	Factored design moment (kip-ft.). 1.25 (Mpc; + Mpc;) + 1.5 Mpw + 1.75 M ½ + Imp
$\phi_{f}M_{D}$:	Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).
fs (Service II):	Sum of stresses as computed from the moments below (ksi). Mpc1 + Mpc2 + Mpw + 1.3 M4 + Imp
fs (Total)(Strength I):	Sum of stresses as computed from the moments below on non-compact section (ksi).

1.25 (MDC1 + MDC2) + 1.5 MDW + 1.75 M& + Imp

V_f: Factored shear range in span computed according to Article 6.10.10.

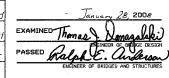
*TOP OF BEAM ELEVATIONS

Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6
West Abut.	439.88	439.99	440.08	440.08	439.99	439.88
East Abut.	439.86	439.97	440.06	440.06	439.97	439.86

*For Fabrication only

DESIGNED Phillip R. Litchfield
CHECKED Nicholas R. Barnel

CHECKED PRL/NRB



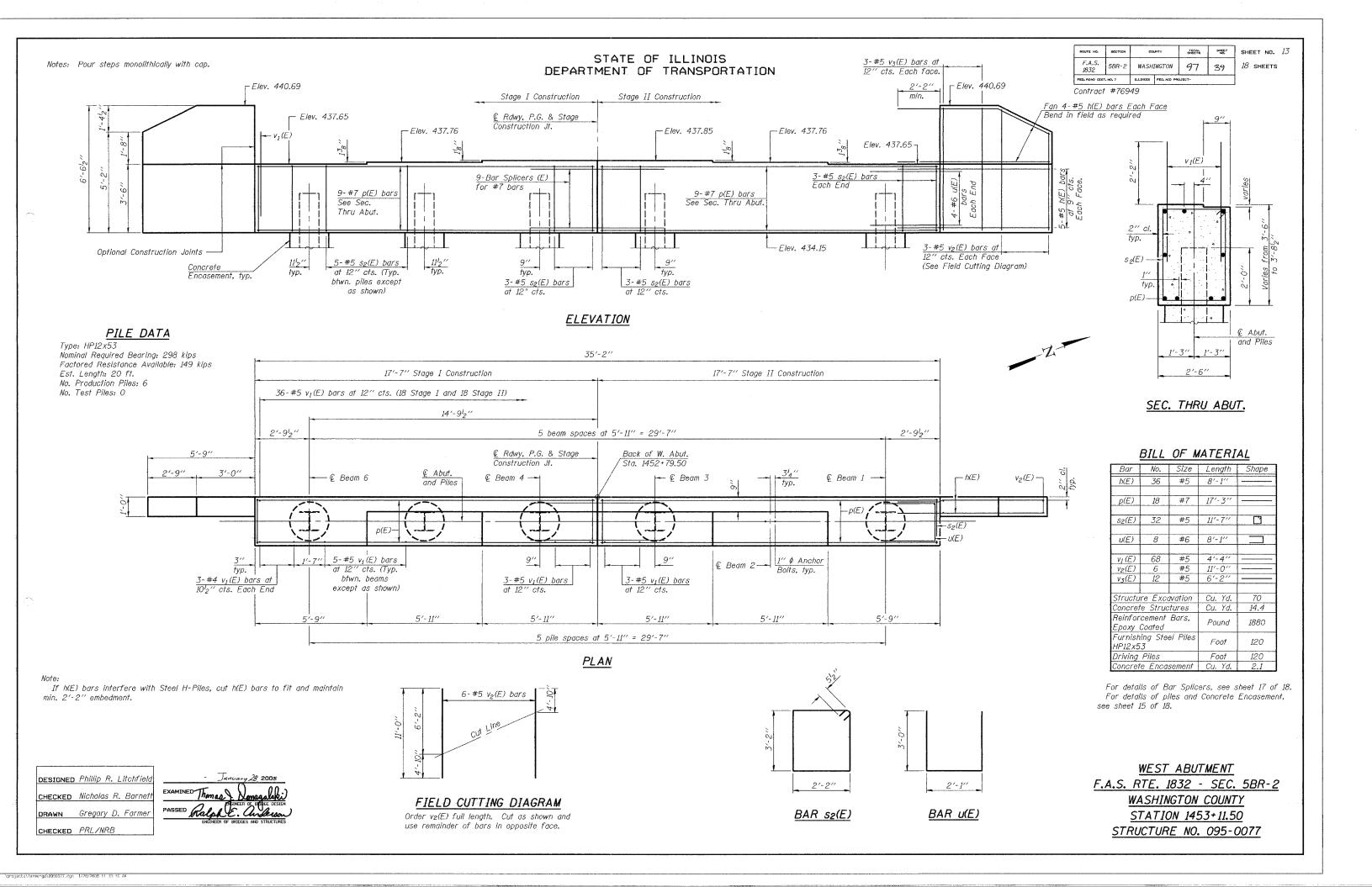
STRUCTURAL STEEL DETAILS

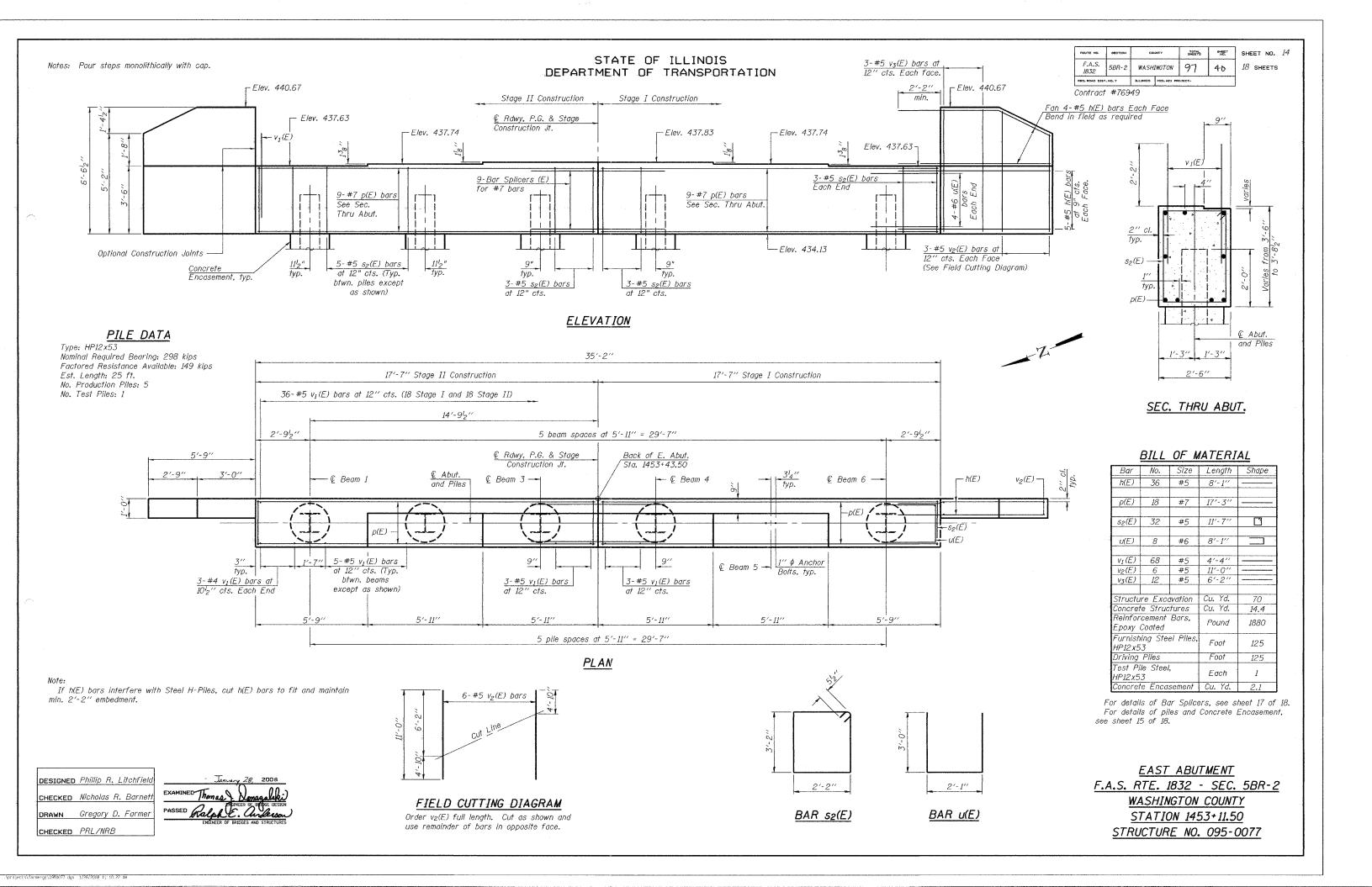
F.A.S. RTE. 1832 - SEC. 5BR-2

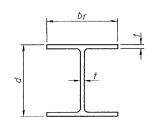
WASHINGTON COUNTY

STATION 1453+11.50

STRUCTURE NO. 095-0077

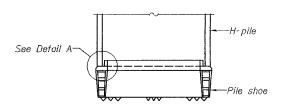




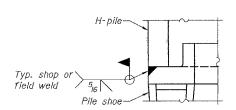


STEEL PILE TABLE

Designation	Depth d	Flange width b _f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 4 "	14 ⁷ 8′′	¹³ 16 ′′	30′′
x102	14''	14 ³ 4"	16''	30′′
x89	13 ⁷ 8′′	14 ³ 4′′	5 ₈ ′′	30′′
x73	13 ⁵ 8′′	14 ⁵ 8′′	2"	30′′
HP 12x84	1214''	1214''	11/16 ′′	24''
x74	12 ¹ 8′′	1214''	58′′	24''
x63	12''	12 %''	12"	24''
x53	11 ³ 4′′	12''	7 ₁₆ ′′	24''
HP 10x57	10''	1014''	916"	24"
x42	934''	10 ¹ 8 ′′	7 ₁₆ ′′	24''
HP 8x36	8''	81 ₈ ''	⁷ 16 ′′	18′′

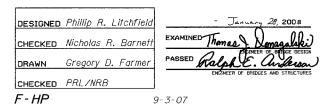


ELEVATION

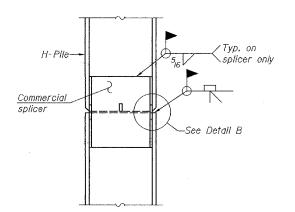


DETAIL A

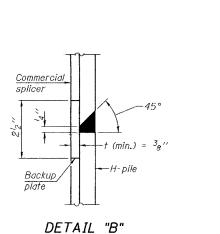
H-PILE SHOE ATTACHMENT

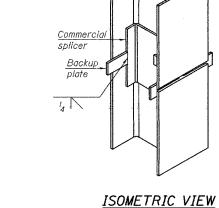


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

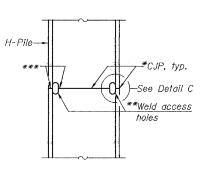


ELEVATION

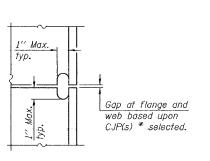




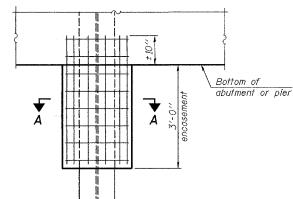
WELDED COMMERCIAL SPLICE







<u>DETAIL C</u>



ELEVATION

or pier

Note:

Forms for encasement may be omitted when soil conditions permit.

SHEET NO.

41

Welded wire fabric 6 x 6-

W4.0 x W4.0 weighing 58#/100 sq. ft. Bend as

required to fit into wall.

TOTAL SHEETS

97

SHEET NO. 15

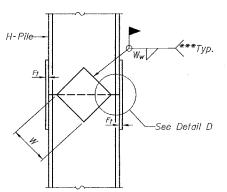
18 SHEETS

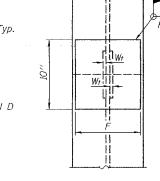
SECTION A-A

F.A.S. 5BR-2 WASHINGTON

Contract #76949

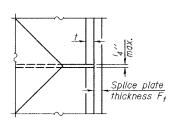
PILE ENCASEMENT





ELEVATION

END VIEW



DΕ	<u>T</u> ,	A I	Ľ	D	
				_	

	Designation	F	F _t	F _w	W	W_{t}	Ww
I	HP 14x117	1212"	I''	⁷ 8''	734''	58′′	12"
ĺ	x102	1212"	78''	34"	734''	5 ₈ ′′	2"
	x89	12 ¹ 2''	34''	116''	734''	58′′	2"
Į	x73	12½''	⁵ 8′′	⁹ 16 ''	734''	5 ₈ ′′	2"
	HP 12x84	10′′	⁷ 8′′	16''	6½″	5 _β ′′	2"
	x74	10′′	78''	11 ₁₆ ′′	612"	⁵ 8′′	2"
-	x63	10′′	5 ₈ ′′	12''	612"	^l 2′′	3 ₈ ′′
	x53	10′′	58′′	2"	62"	2"	38′′
	HP 10x57	8''	34''	9 ₁₆ ′′	514''	2"	3 ₈ ′′
	x42	8''	5 ₈ ′′	9 ₁₆ ′′	514''	2"	3811
	HP 8x36	7′′	5,11	7 U	414"	l ₂ ′′	.3, 11

COMPLETE PENETRATION WELD 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 $^{l}_{4}$ " from end of each pile.

WELDED PLATE FIELD SPLICE

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

PILE DATA

F.A.S. RTE. 1832 - SEC. 5BR-2

WASHINGTON COUNTY

STATION 1453+11.50

STRUCTURE NO. 095-0077

projects\farmergd\0950077.dgn = 1/28/2008 ii:10:35 AM

TOTAL SHEET SHEET NO. 16 F.A.S. 1832 5BR-2 WASHINGTON 97 42

18 SHEETS

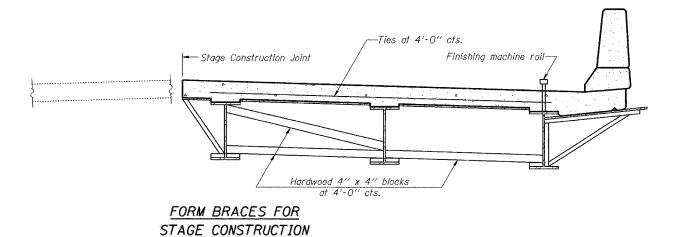
Contract #76949

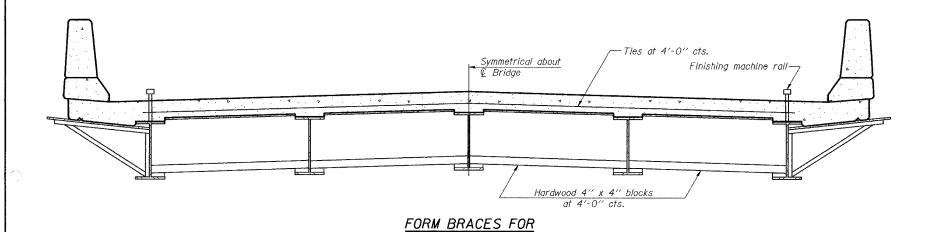
When cantilever forming brackets are used, the work shall be done according to Article 503.06(b) of the Standard Specifications, except as modified below and in the details shown on this sheet.

The finishing machine rails shall be placed on the top flange of the exterior beams.

The beams or girders, supporting cantilever forming brackets, shall be tied together at 4 foot intervals.

For Standard construction, or Stage Construction the Hardwood bracing materials shall be placed as shown between webs of beams in each bay.





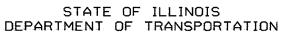
STANDARD CONSTRUCTION

DESIGNED Phillip R. Litchfield CHECKED Nicholas R. Barnet Gregory D. Farmer DRAWN

CHECKED PRL/NRB

SB-1 11-1-06 CANTILEVER FORMING BRACKETS F.A.S. RTE. 1832 - SEC. 5BR-2 WASHINGTON COUNTY STATION 1453+11.50 STRUCTURE NO. 095-0077

STATE OF ILLINOIS





18 sheets

Contract #76949

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:

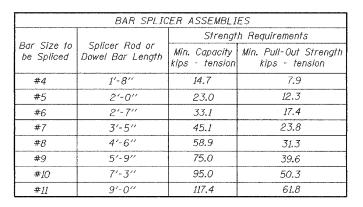
> Minimum Capacity = $1.25 \times fy \times A_t$ (Tension in kips)

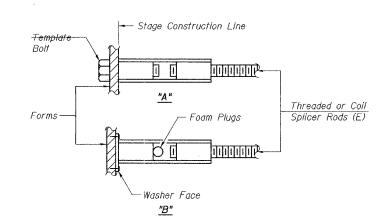
(Lension III Kips)
Minimum *Pull-out Strength = $0.66 \times fy \times A_t$

Where fy = Yield strength of lapped reinforcement bars in ksi.

A_t = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete





BAR SPLICER ASSEMBLY ALTERNATIVES

תיונעיוני אינונעיוני

WELDED SECTIONS

ROLLED THREAD DOWEL BAR

** ONE PIECE

Wire Connector

The diameter of this part is

equal or larger than the

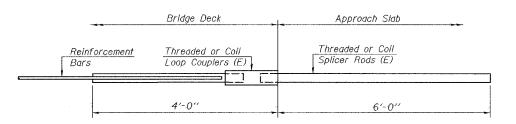
diameter of bar spliced.

** 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 = 64

DESIGNED Phillip R. Litchfiel CHECKED Nicholas R. Barnet Gregory D. Farmer CHECKED PRL/NRB

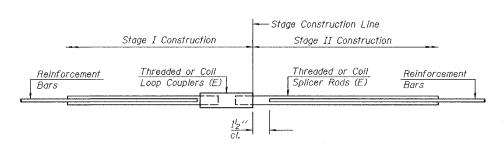
11-1-06

The diameter of this part

of the bar spliced.

is the same as the diameter

6'-0" Approach slab Abutment hatch block Threaded or Coil Threaded or Coil Splicer Rods (E) Loop Couplers (E) FOR STUB **ABUTMENTS** Bar Splicer for #5 bar Min. Capacity = 23,0 kips - tension Min. Pull-out Strength = 12.3 kips - tension No. Required =



STANDARD

#6		
#0	16	Diaphragm
#5	187	Deck
#7	18	Abutment

BAR SPLICER ASSEMBLY DETAILS F.A.S. RTE. 1832 - SEC. 5BR-2 WASHINGTON COUNTY STATION 1453+11.50 STRUCTURE NO. 095-0077

BSD-1

ROUTE NO.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.	SHE	ET NO.
F.A.S. 1832	5BR-2	WASH.	INGTON	97	43a.	18	SHEETS
FEO. ROAD DIST		ILLINOIS	ILLINOIS PED. AZO PRO				

Contract #76949

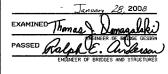
Illinois Depart of Transportat	men ion	t		S	OIL BORING LOG	Page	_1_0	f
Division of Highways District & Materials						Date	10/2	9/7
ROUTE FAS 1832 DESCRIPTION	ON			IL 160	over Plum Creek LOGG	ED BY	. Hoffma	an
SECTION 5BR-2	OCATIO	ON _	SE 1/4	, NE 1	4, SEC. 28, TWP. 1S, RNG. 4W, 3 PM			
COUNTY Washington DRILLIF	NG ME	THOO		Hoil	ow Stem Auger HAMMER TYPE	140# /	Automati	ic
095-0006 (E)/	D	В	U	м		р в	u	A
STRUCT. NO. 095-0077 (P) Station 1453+15	E	L	C	0	Surface Water Elevft Stream Bed Elev429.51 ft	EL	C	C
	P	O W	s	S		P O	s	5
BORING NO. 1 E. Abut Station 1453+57	H	s	Qu	Ť	Groundwater Elev.: First Encounter 431.9 ft	1 1 1	Œυ	ī
Offset 10.00ft Left	t (ft)	(6")	(tsf)	(%)	Upon Completionft	(6) (67)	(tsf)	(%
Gloding Bullets Liev. 441.01	. 1			-	After Hrs ft Gray Weathered SHALE	164 657		_
Brown CLAY					(continued)	50	1.65 S	1
	-	-1	- 7	- 75		1		
			'					
	_	12	0.76	29		100+	1.55	10
			5				s	
430	3.9					-25		
Dark Gray Clayey SILT								
•		8	0.52 B	29		100+	NC	10
434	1.4	1		- 13				_
Dark Gray SILT			ĺ					
,,	_	4	0.16	35		100+		13
42	1.9 ▼		В		412	4	NC	
	<u>1.3 ▼</u> -10		l		END OF BORING	-30		
Dark Gray Silty Sandy CLAY		7	0.62	25	NOTE: Value in Blows/6" Column			
·			В		is the N-Value of the Sample			
.429	0.4	3		,				
Gray and Brown Coarse SAND	-			L				
and Fine GRAVEL		22	NE	[
426	5.9		""			\dashv		
Gray and Brown Coarse SAND	_15					_35		
and Coarse GRAVEL		12				-		
			NC					
424	1.4							
Brown Highly Weathered SHALE		20	000	L				
	-	38	0.81 S	20		4		
	1.9		Ė					
Gray Weathered SHALE	-20					-40	LL	

of Transportation Division of Highways District 8 Materials	, 11				OIL BORING LOG		Date	10	30/7
ROUTE FAS 1832 DESCRIPTION	ı			IL 160	over Plum Creek LO	GGED I	3Y	. Hoffr	nan
SECTION 5BR-2 LO	CATIO	ON	SE_1/4	, NE 1	4, SEC. 28, TWP. 1S, RNG. 4W, 3 PM				
COUNTY Washington DRILLING	ME	тнов		Holl	ow Stem Auger HAMMER TY	PE	140# /	Automa	atic
995-0006 (E) / 995-0077 (P) Station 1453+15	D E P	B L O	U C S	M 0 1	Surface Water Elev. ft Stream Bed Elev. 429.51 ft		L	U C S	M 0
BORING NO. 2 W. Abut Station 1452+71 Offset 10.00ft Right	T H	w s	Qu	S T	Groundwater Elev.: First Encounter 428.0 ff Upon Completion ff	: 1	s	Oπ	S T
Ground Surface Elev. 439.91 ft	(ft)	(/6°)	(tsf)	(%)	After Hrs ft Gray Weathered SHALE		(6")	(tsf)	(%
Brown Sifty CLAY	_				(continued)		100+	NC	11
						_			
436.8	_	10	0.97 S	26		_	100+	NC	14
Brown and Gray Clayey SILT	5	11	0.62	26		2	5 100+		14
433.0			B	-		113.6		NC	-
Dark Gray Silty CLAY		12	1.96	24	END OF BORING NOTE: Value in Blows/6" Column	_			
430.5			В	-	is the N-Value of the Sample				
Gray Clay TILL	_10	12	1.46	22		-3	0		
	<u>v</u>		В			_			
		10	1.07	20					
426.0			В	-			7		
Brown Clay TILL	_15			14		3	5		
423.0		86	3.42 B	-			1		
Gray Clay TILL	_	80	4.33	12					
420,5	_		\$ S	-		-	1		
Grav Weathered SHALE 420.5	-20	1		1		-		l	

DESIGNED Phillip R. Litchfield
CHECKED Nicholas R. Barnett

DRAWN Gregory D. Farmer

CHECKED PRL/NRB



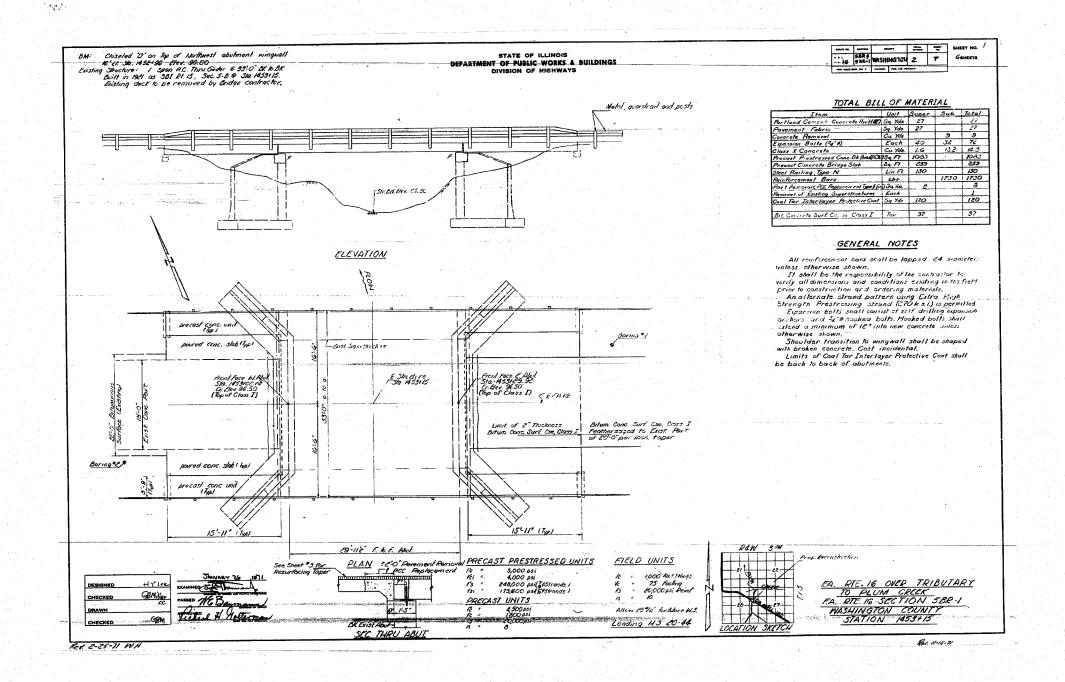
SOIL BORING LOGS

F.A.S. RTE. 1832 - SEC. 5BR-2

WASHINGTON CO.

STATION 1453+11.50

STRUCTURE NO. 095-0077

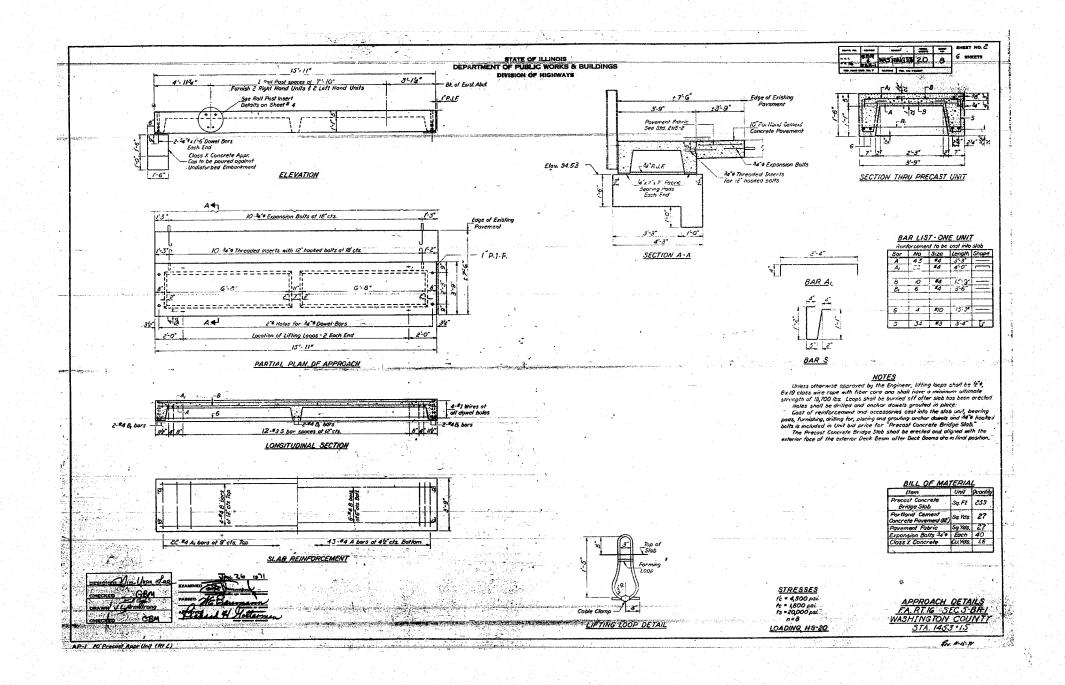


S.N. 095-0077

FOR INFORMATION ONLY

REVISIONS NAME	DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION				
ITAMIL	DAIL	EXISTING STRUCTURE PLANS				
		FAS ROUTE 1832 SECTION 5BR-2				
<u> </u>		WASHINGTON COUNTY				
		SCALE: DRAWN BY DATE CHECKED BY				

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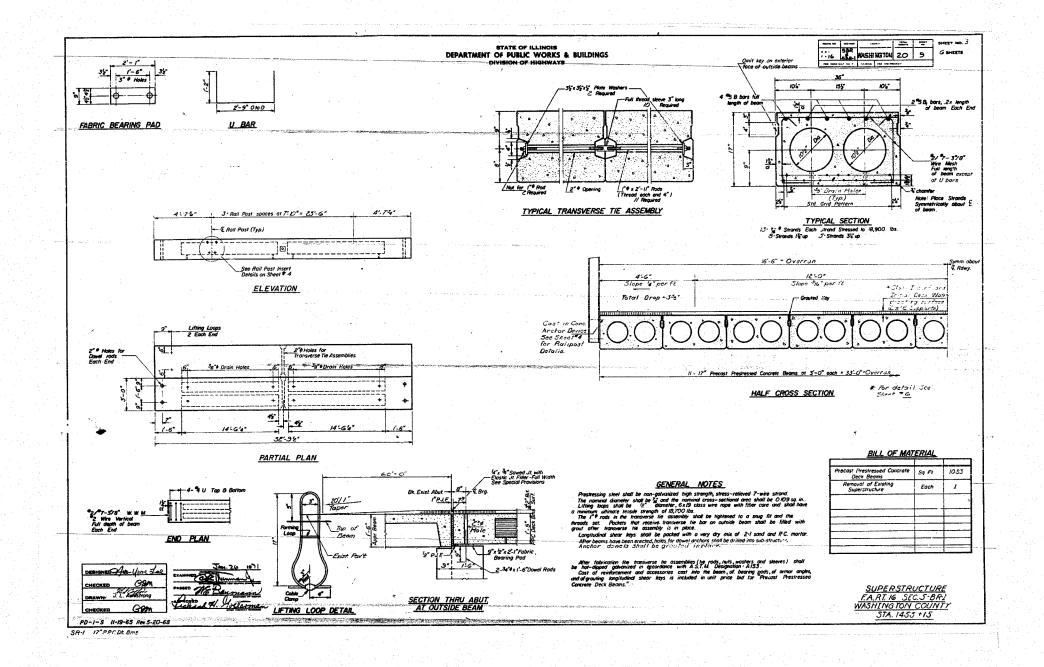
ARTMENT OF TRANSPORTATION

IG STRUCTURE PLANS

FAS ROUTE 1832 SECTION 5BR-2 ASHINGTON COUNTY DRAWN BY

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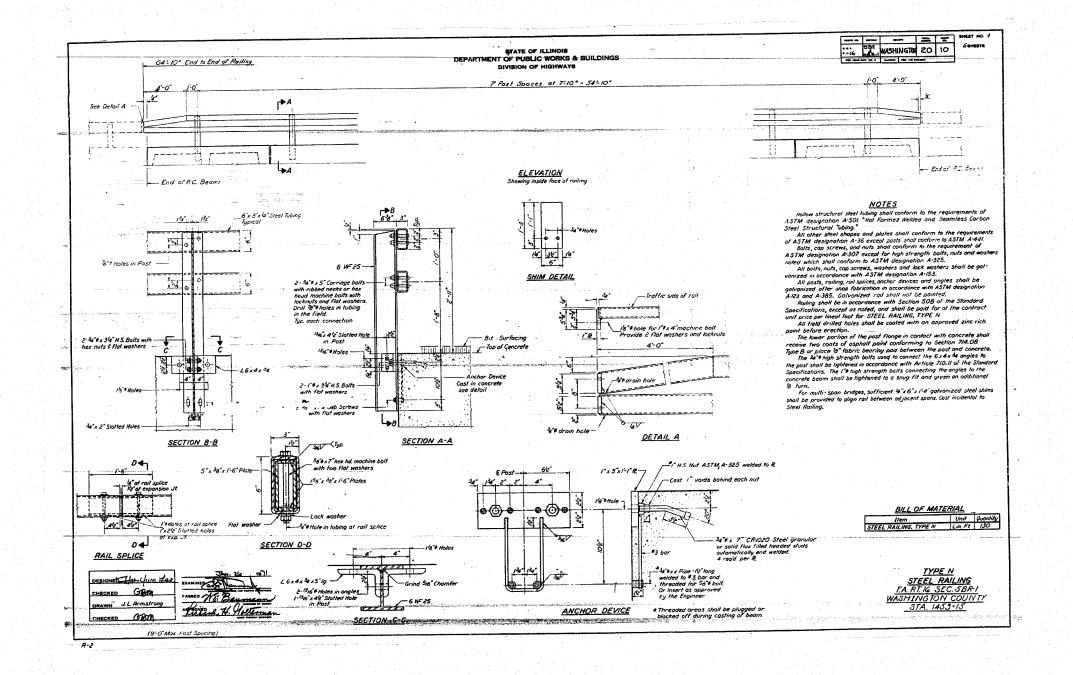
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LINOIS DEPARTMENT OF TRAI	NSPORTATION
EXISTING STRUCTUR	E PLANS
FAS ROUTE 183 SECTION 5BR-2	
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WASHINGTON COUNTY SCALE: VERT. DATE

DATE

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DATE NAME SCALE TENCE



S.N. 095-0077

FOR INFORM

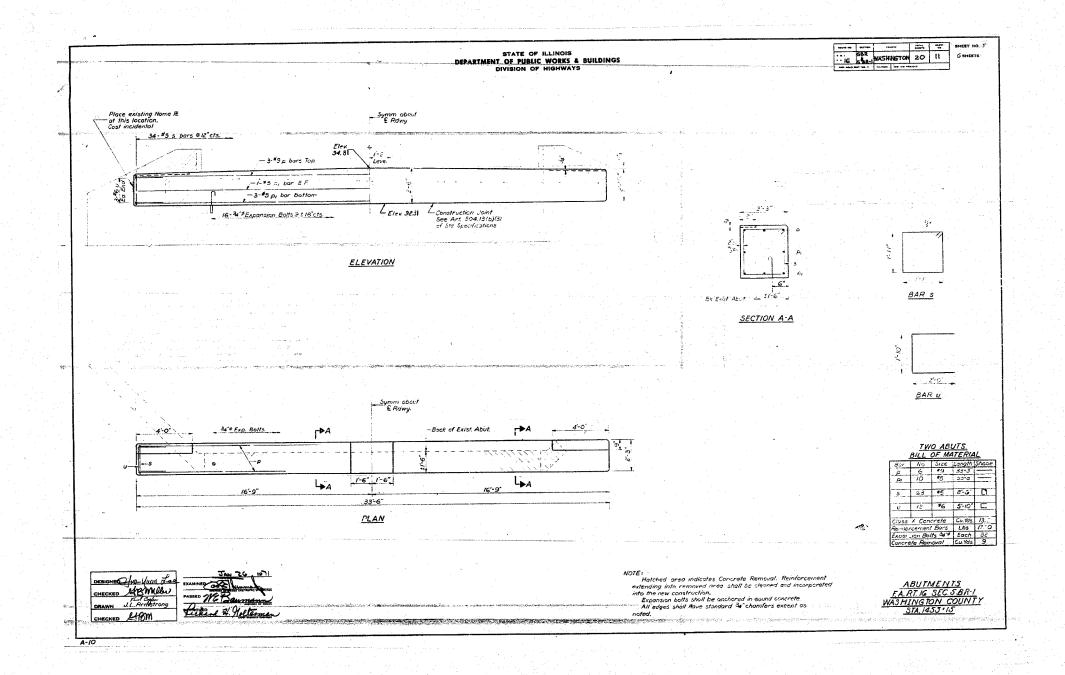
ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING STRUCTURE PLANS
FAS ROUTE 1832
SECTION 5BR-2
WASHINGTON COUNTY
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CONTRACT NO. 76949

COUNTY TOTAL SHEET NO. RTE. SECTION COUNTY TOTAL SHEETS NO.

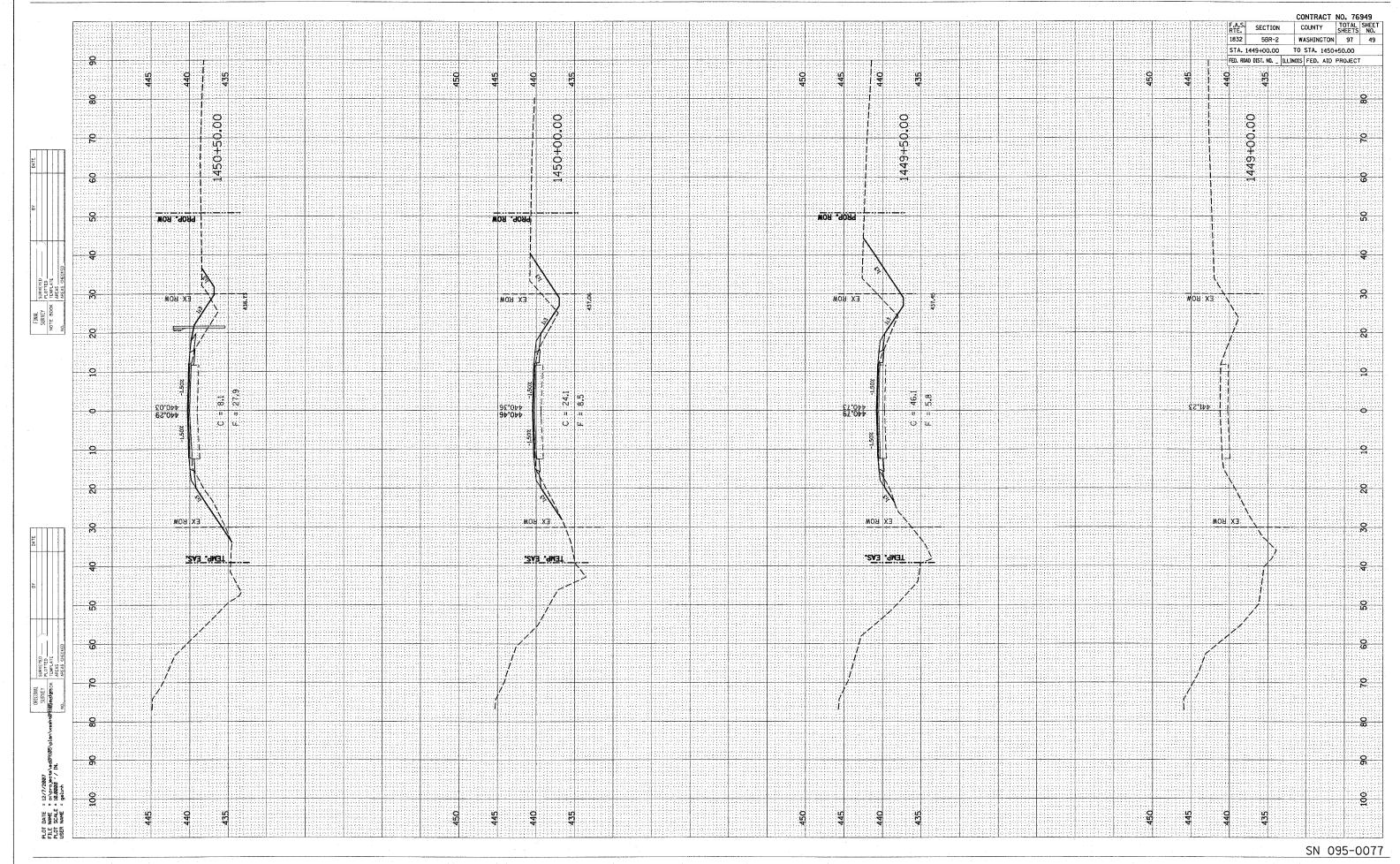
1832 5BR-2 WASHINGTON 97 48 TO STA.____ FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT

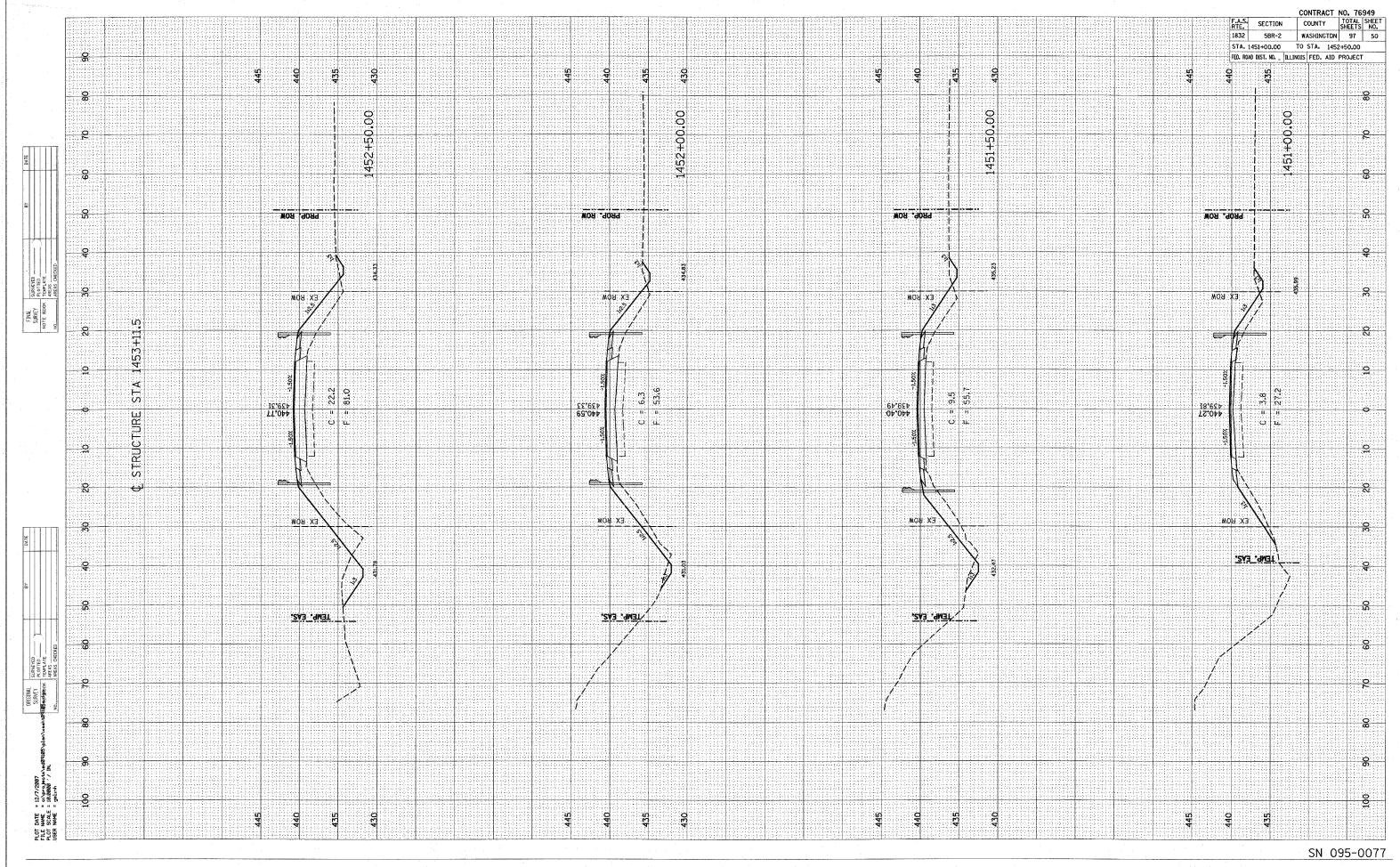


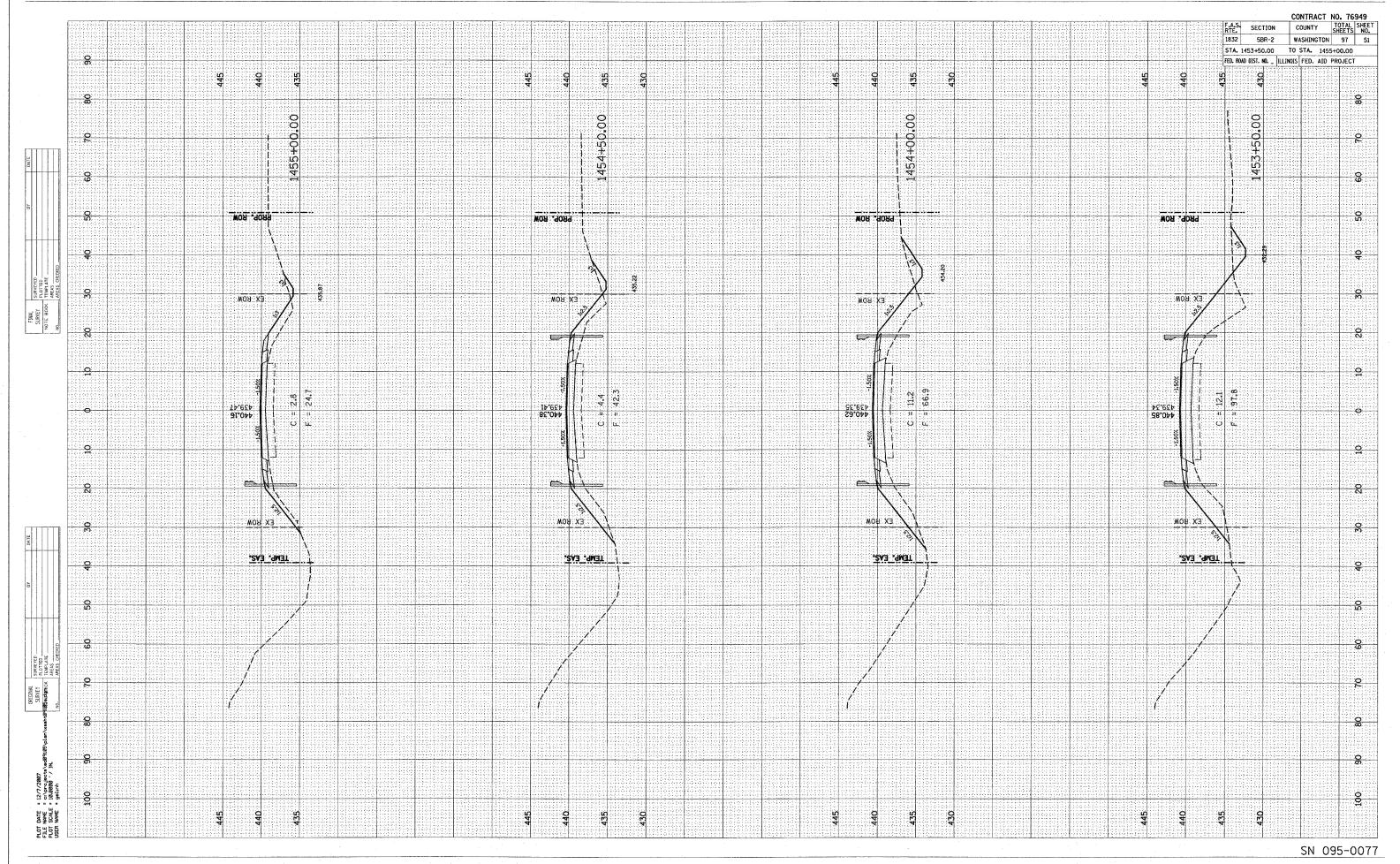
S.N. 095-0077

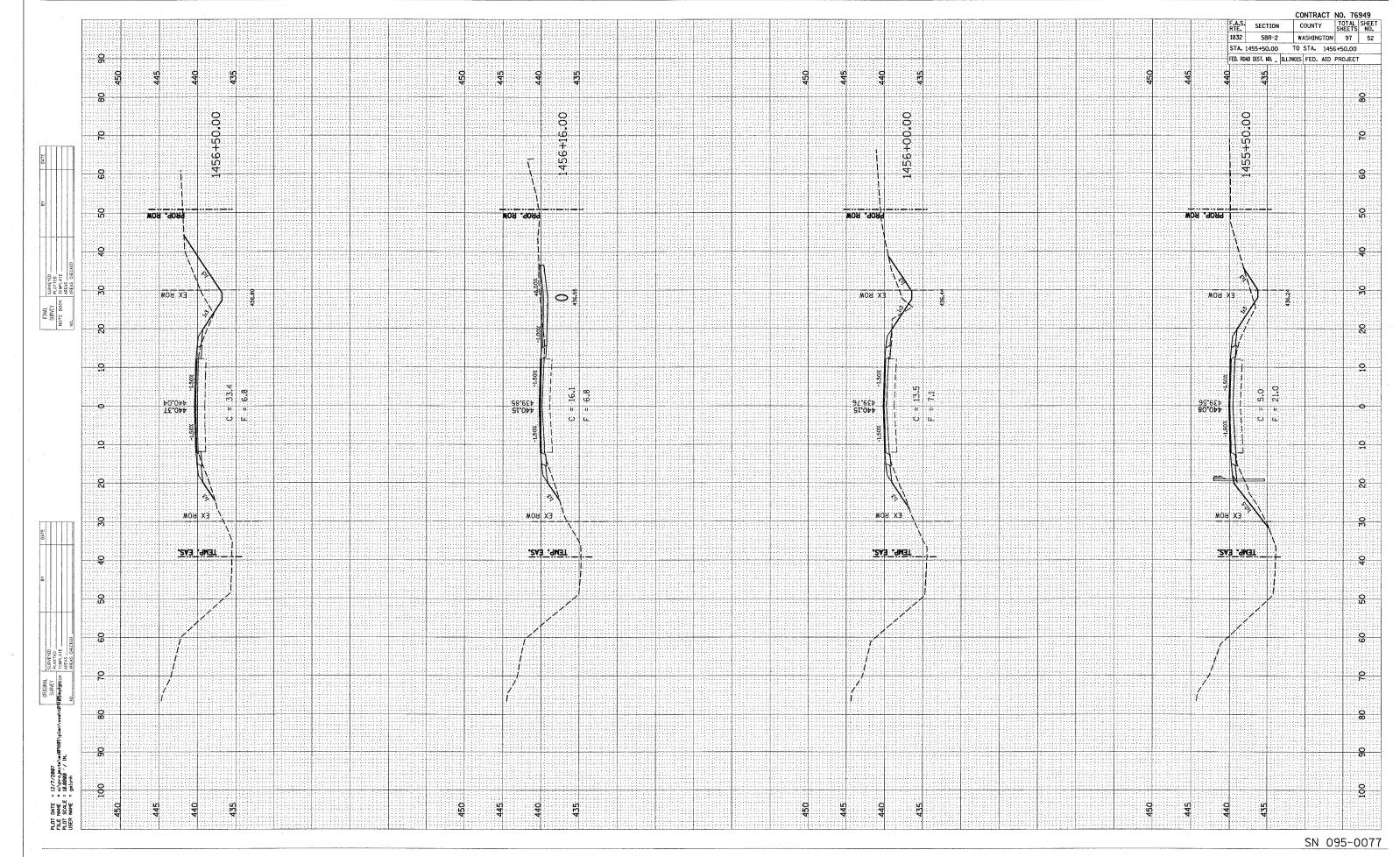
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	1	FAS ROUTE 1832				
		SECTION 5BR-2				
		WASHINGTON COUNTY				
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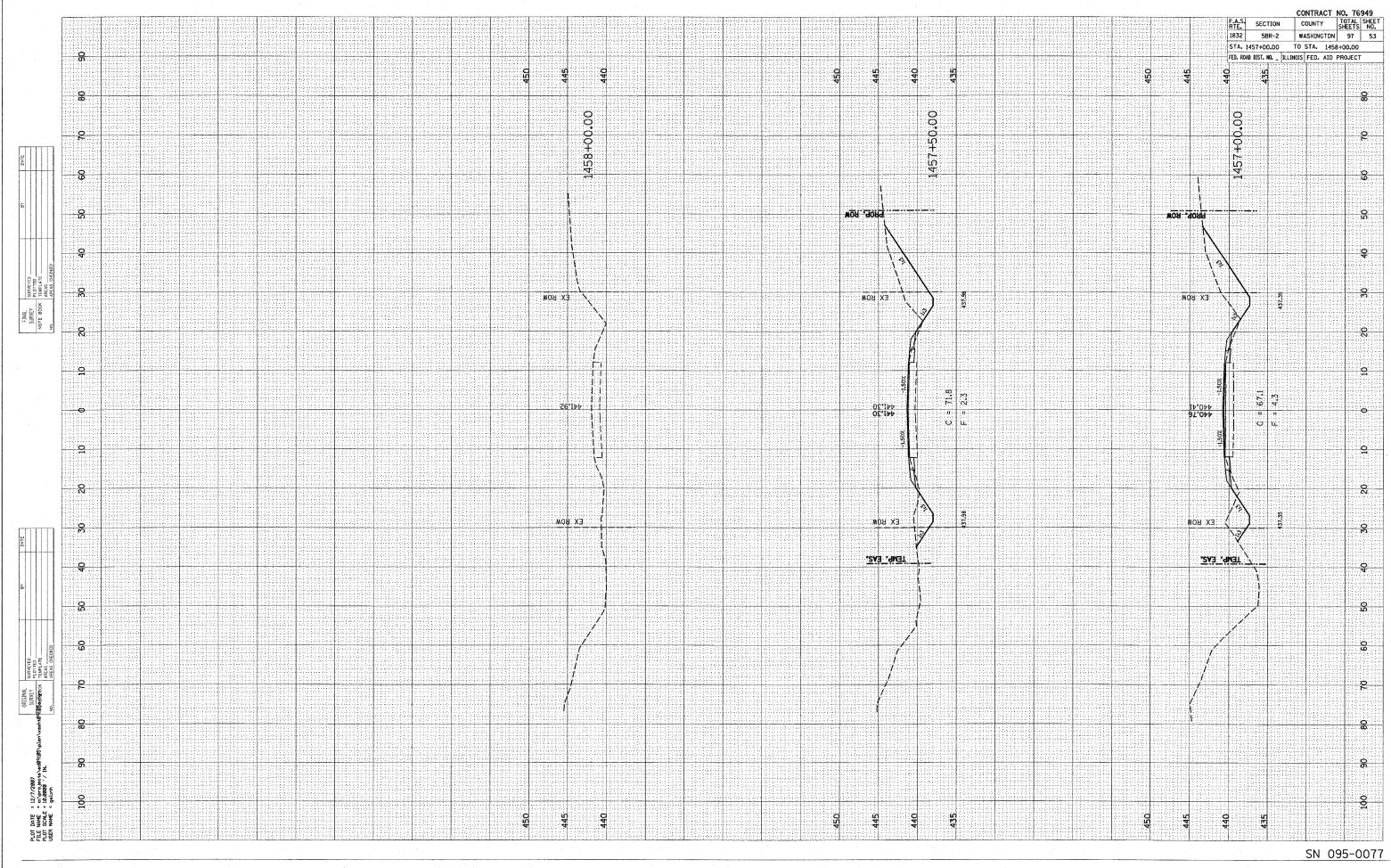
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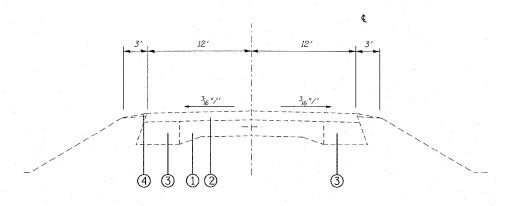






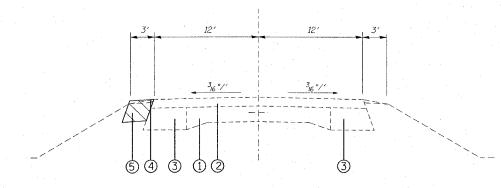






TYPICAL SECTION

STA. 1505+00.00 TO STA. 1517+00.00



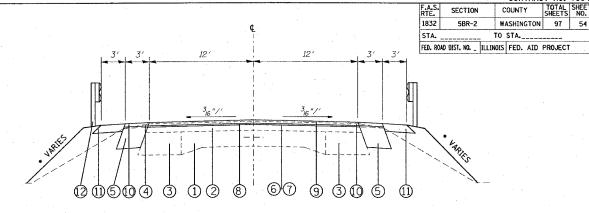
TYPICAL SECTION

STA. 1507+75.00 TO STA. 1514+25.00 - LT



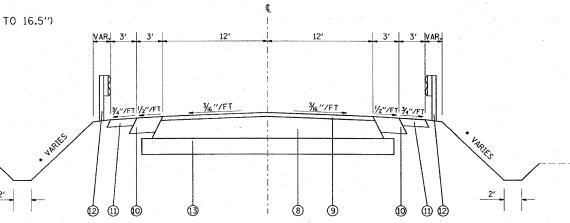
LEGEND

- EXISTING P.C.C. PAVEMENT 9-6-9
- 2 EXISTING BITUMINOUS OVERLAY 6" (±)
- EXISTING BASE COURSE WIDENING 8"
- 4 EXISTING AGGREGATE SHOULDERS
- (5) PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING, 9"
- 6 PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
- 7 PROPOSED AGGREGATE (PRIME COAT)
- 8 PROPOSED HOT-MIX ASPHALT BINDER COURSE (VARIES 3/4" TO 16.5")
- 9 PROPOSED HOT-MIX ASPHALT SURFACE COURSE, 11/2"
- (1) PROPOSED HOT-MIX ASPHALT SHOULDER, 8"
- (11) PROPOSED AGGREGATE SHOULDER, TYPE B 6"
- (12) PROPOSED GUARDRAIL
- PROPOSED SUB-BASE GRANULAR MATERIAL. TYPE A 12"



TYPICAL SECTION

STA. 1507+75.00 TO STA. 1510+84.00 STA. 1511+16.16 TO STA. 1514+25.00



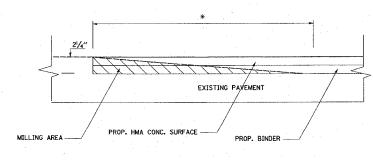
PROPOSED TYPICAL SECTION

STA. 1510+67.40 TO STA. 1510+84.90

MIXTURE REQUIREMENTS

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

PLAN QUANTITIES FOR HOT-MIX ASPHALT SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT DF 112 LB/SQ YD/IN (59.8 KG/SQ M/25 MM THICKNESS).



HMA SURFACE REMOVAL DETAIL

BEGINNING STA. 1508+00.00 TO STA. 1508+89.34
ENDING STA. 1315+00.69 TO STA. 1514+25.00 S.N. 095-0078

DRAWING NOT TO SCALE

S.N. 095-0078 ILLINOIS DEPARTMENT OF TRANSPORTATION TYPICAL SECTIONS MIXTURE

REQUIREMENT & HMA REM. DETAIL FAS ROUTE 1832 SECTION 5BR-2 WASHINGTON COUNTY

SCALE: VERT. DATE

DRAWN BY CHECKED BY

CONTRACT NO. 76949

DATE NAME SCALE RENCE

RESURFACING SCHEDULE

STATION	RT/LT	HOT-MIX ASPHALT BS WIDENING 9" (SQ YD)	AGGREGATE PRIME COAT (TON)	BIT. MAT'L PRIME COAT (TON)	HMA CONC BINDER SUPER, MIX "B" (TON)	HMA CONC SURF CSE, SUPER, MIX "C", N70 (TON)	SUB-BASE GRANULAR MATERIAL TY-A 12" (SQ YD)	HMA SHOULDERS 8 " (SQ YD)	AGG. SHLD TYPE B 6' (SQ YD)
1508+00.00 TO 1508+90.00	RT/LT				10.08				
1507+75.00 TO 1510+52.50	RT								
1507+75.00 TO 1510+68.30	LT	97.77							
1508+00.00 TO 1510+86.00	RT/LT		1.14	0.24		64.06		190.67	190.67
1508+90.00 TO 1510+86.00	RT/LT		-	1 1	307.33				
1510+67.40 TO 1510+84.00	RT/LT						50.56		
1511+18.90 TO 1514+25.00	LT	102.03							
1511+16.00 TO 1513+15.00	RT/LT			-	312.03				
1511+09.00 TO 1514+25.00	RT								
1511+16.00 TO 1514+25.00	RT/LT		1.24	0.26		69.22		206.00	206.00
1513+15.00 TO 1514+25.00	RT/LT				12.32				
TOTAL		199.80	2.38	0.50	641.76	133.28	50.56	396.67	396.67

TEMPORARY PAVEMENT MARKING SCHEDULE

STATION				PA	VEMENT MARKI				
			TATION		LINE 4" PAVEMENT (FT)	LINE 6" (TEMP. BARR.) (FT)	LINE 24" PAVEMENT (FT)	WORK ZONE PVMT REMOVAL (SQ FT)	PVMT MRKG REMOVAL (SQ FT)
1504+95.00			RT	STOP BAR			12	24.0	
1504+70.00			LT	STOP BAR			12	24.0	
1504+70.00		1517+35.00		STAGE 2	2530			843.3	
1504+95.00	TO	1517+35.00		STAGE 1	2480			826.7	
1504+70.00	TO	1517+35.00	RT/LT						843.3
1504+70.00	TO	1517+35.00	CL						105.4
1507+95.00	TO	1515+64.50		STAGE 1		770			
1506+40.50	TO	1515+69.50		STAGE 2		930			· · · · · · · · · · · · · · · · · · ·
1507+51.24		MALLARD	RT				46	92.0	
1517+35.00			LT	STOP BARS			24	48.0	
SUB	-T0	TAL							
. 1	OTA	L			5010	1700	94	1858.0	948.7

GUARDRAIL SCHEDULE

ST	ATI	ON	RT/LT	SPBGR (FT)	TBT - T1 (SPECIAL) (EA)		GUARDRAIL MRKS TY-A (EA)	BI-DIREC PRISM BARR REFLEC (EA)
1508+45.25	TO	1510+76.50	RT	137.5	. 1	1	3 .	
1509+45.25	TO	1510+89.00	LT	50	1	1	2	
1510+86.00	TO	1511+16.00	RT/LT					2
1511+22.25	TO	1513+53.50	LT	137.5	1	1	3	
1511+11.00	TO	1512+54.75	RT	50	1	1	2	
		TOTAL		375	4	4	9	2

PAVEMENT MARKING SCHEDULE

					PAVEMENT	- THERMOPLAS	TIC	1
\$1	[ATI	NO		4" WHITE LINE (FT)	4" YELLOW LINE (FT)	YELLOW SKIP DASH LINE 4" (FT)	DBL AMBER RSD REFL PMK (EA)	24" WHITE LINE (FT)
1504+69.00	TO	1517+36.00	CL			316.75	16	
1504+69.00	TO	1517+36.00	RT/LT	2414				
1507+51.24		STOP BAR	RT					38
1509+00.00	TO	1513+00.00	CL		400.0			
SUE	3-T0	TAL		2414	400.00	316.75	16	
. 1	OTA	L			3130.75		16	38

S.N. 095-0078

REVISIONS		TLLINOIS	DEPARTMENT OF TRANSPORTATION				
NAME	DATE						
	-	SCH	EDULE OF QUANTITIES				
			FAS ROUTE 1832				
		SECTION 5BR-2					
			WASHINGTON COUNTY				
	-	VERT.					
		SCALE: HORIZ.	DRAWN BY				
		DATE .	CHECKED BY				

TREE REMOVAL SCHEDULE

STATION	OFFSET	RT/LT		6 TO 15 UNITS		R 15 ITS	
1510+86.70	40.5	LT			16		
1510+97.80	61.2	RT		12			
1510+98.40	59.5	RT	10				
1511+27.20	33.5	LT				24	
SL	B-TOTAL		10	12	16	24	
TOTAL			2	22		40	

REMOVAL SCHEDULE

					PVMT R	EMOVAL		1
FROM	L OFFSET	OCATION TO	OFFSET	RT/LT	MAINLINE REMOVAL (SQ YD)	WIDENING REMOVAL (SQ YD)	HMA SURF REMOVAL VAR. DEPTH (SQ YD)	SPBGR (FT)
1507+75.00		1510+68.30		LT		97.77		
1508+00.00		1508+90.00		RT/LT			240.00	
1508+59.00		1510+36.00		RT				177.00
1509+54.00		1510+83.00		LT				129.00
1510+86.50		1511+87.50		RT				101.00
1510+93.25		1511+17.90		RT/LT	68.14			
1511+09.50		1512+95.50		LT				186.00
1511+18.90		1514+25.00		LT		102.03		
1512+27.00	20.6	1512+44.50	26.6	RT				
1513+00.00		1514+25.00		RT/LT			333.33	
		TOTAL			68.14	199.80	573.33	593.00
				267	.94	-		

ROW MARKERS SCHEDULE

	LOCATION STATION SIDE OFFSET						
STATION	SIDE	(EA)					
1506+37.55	29.54	L†	1				
1506+37.56	30.46	R†	1				
1507+50.00	29.54	L†	1				
1508+50.00	44.55	L†	1				
1509+55.29	78.21	R†	1				
1510+43.14	30.43	R†	. 1				
1510+49.50	78.2	R†	1				
1510+80.00	44.57	L†	1				
1512+00.00	45.42	R†	1				
1513+00.00	29.59	. L†	1				
1514+00.00	45.41	R†	1				
1514+50.00	30.4	R†	1				
1514+50.00	29.54	L†	1				
-	TOTAL		13				

SEEDING SCHEDULE

STA	STA		AREA SQ FT)	SEEDING CLASS 2 (ACRE)	NITROGEN FERT. NUTR (POUND)	PHOSPHORUS FERT. NUTR (POUND)	POTASSIUM FERT. NUTR (POUND)	MULCH METHOD 1 (ACRE)
1507+75.00	TO 1513+50.00	LT	5005	0.12	10.34	10.34	10.34	0.12
1507+75.00	TO 1513+50.00	RT	5824	0,13	12.03	12.03	12.03	0.13
	TOTAL			0.25	22.37	22.37	22.37	0.25

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION (CU YD)	CAVATION SHRINKAGE EMBANKME		EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)	
STA. 1507+75.00 TO STA. 1510+86.00	352.5	264.4	262.5	1.9	
STA. 1511+16.00 TO STA. 1514+25.00	188.5	141.4	236.7	-95.3	
TOTAL	541.0	405.8	499.2	-93.4	

EARTHWORK SCHEDULE (WIDENING)

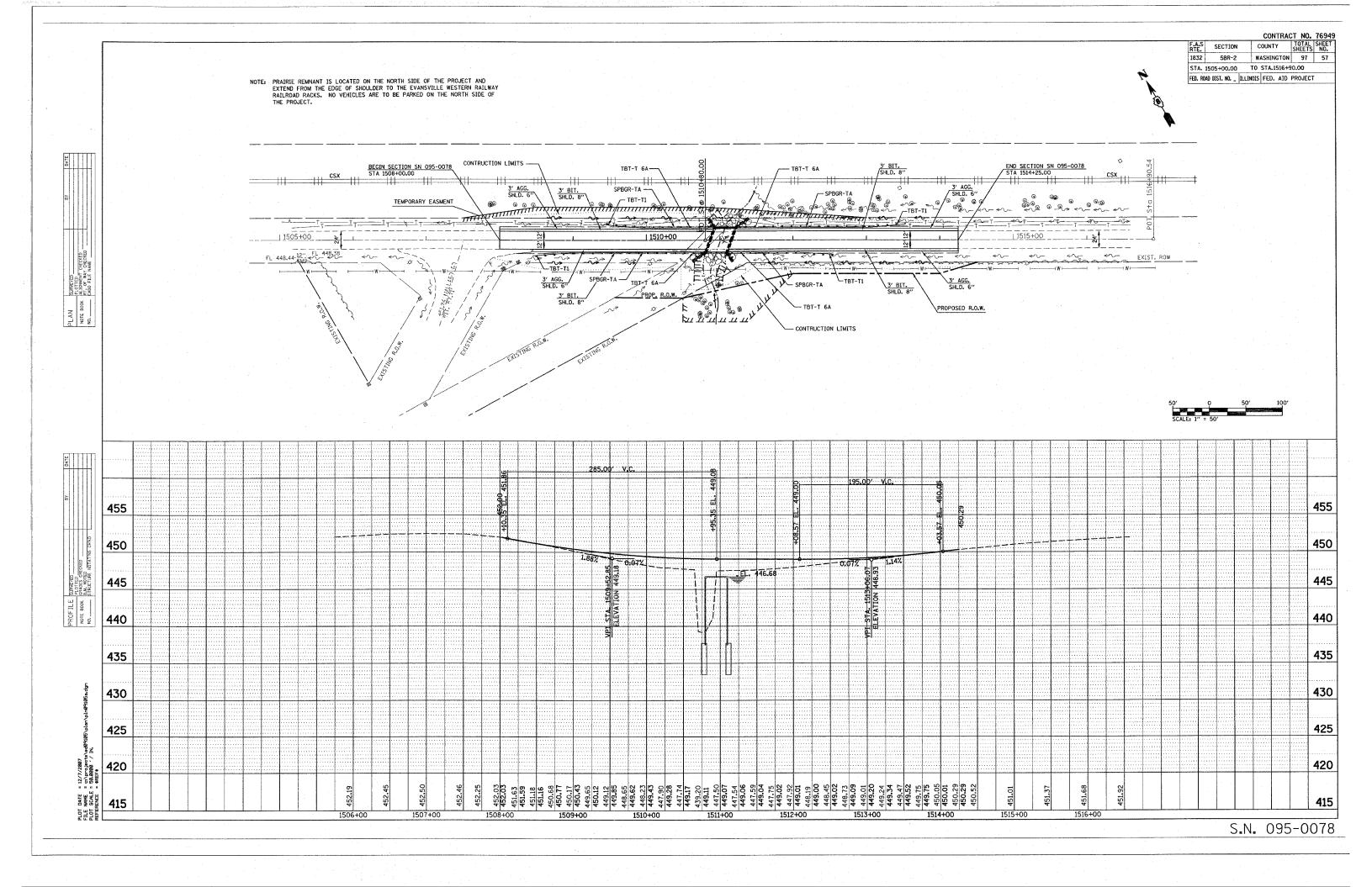
LOCATION	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJTD FOR SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)	
STA. 1507+75.00 TO STA. 1510+68.30	25.0	18.7	0.0	18.7	
STA. 1511+18.90 TO STA. 1514+25.00	26.1	19.6	0.0	19.6	
TOTAL	51.1	38.3	0.0	38.3	

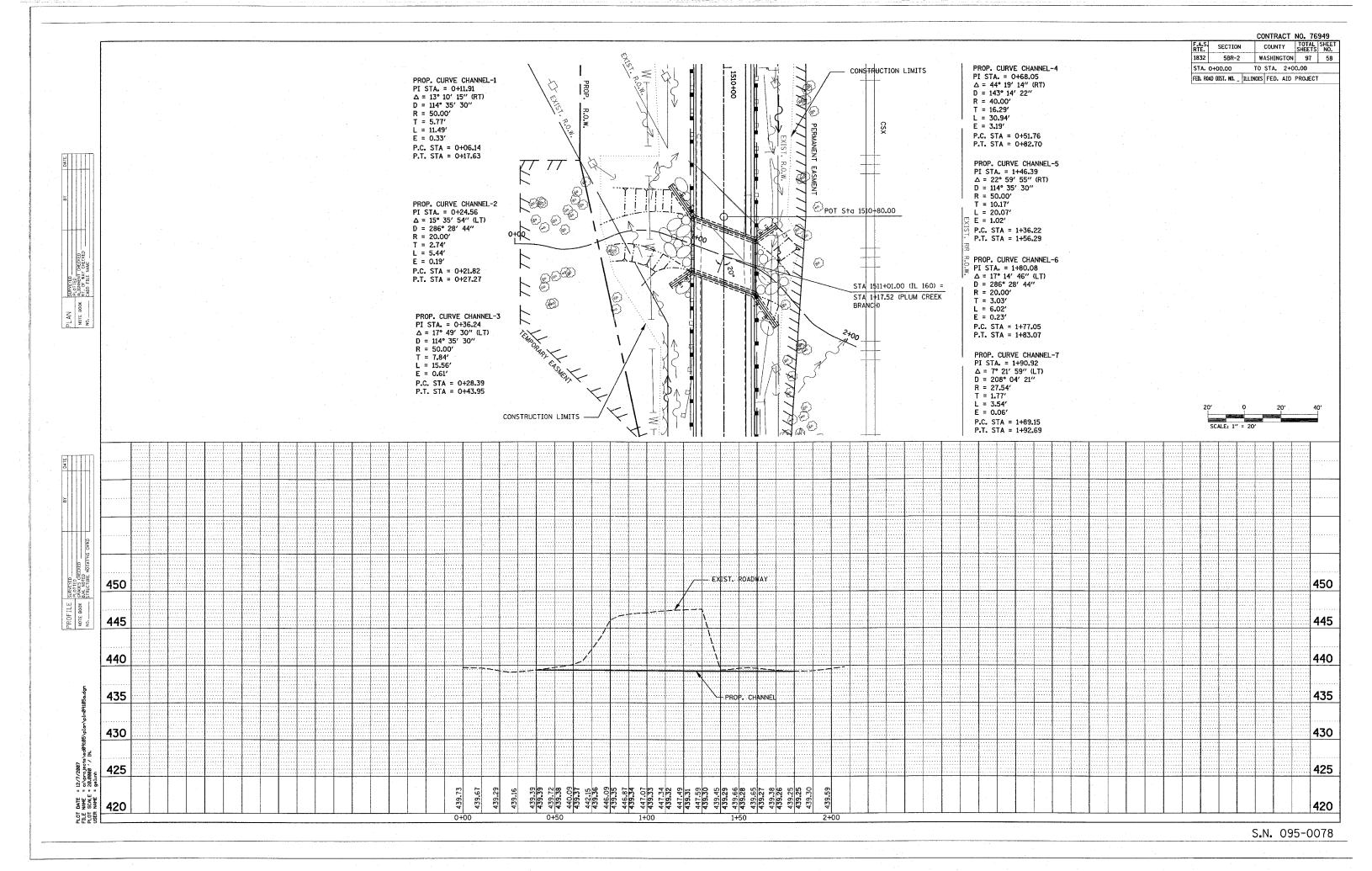
EARTHWORK SCHEDULE (CHANNEL)

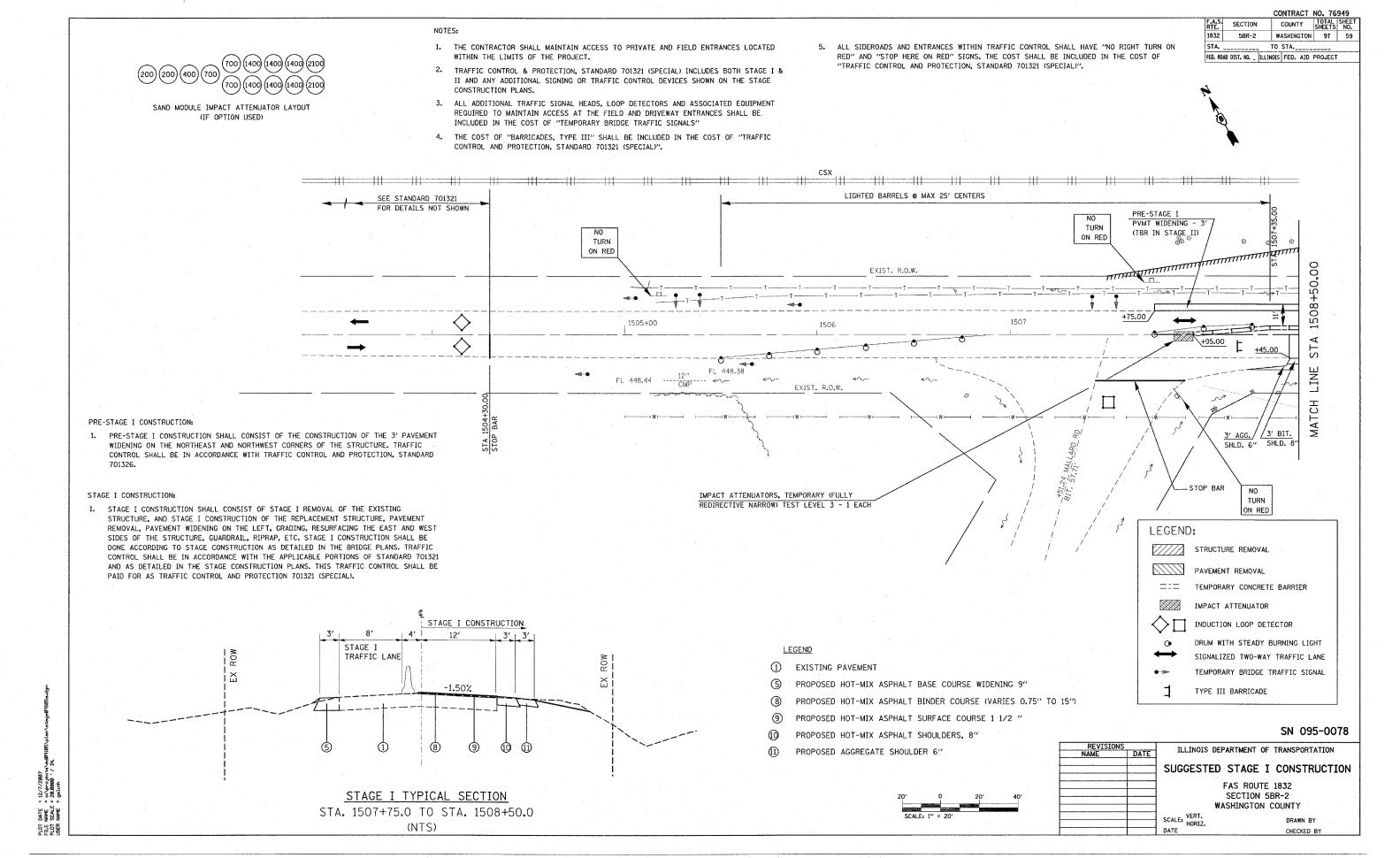
LOCATION	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJTD FOR SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
STA. 0+40.00 TO STA. 1+80.00	632.4	474.3	241.5	232.8
				-
TOTAL	632.4	474.3	241.5	232.8

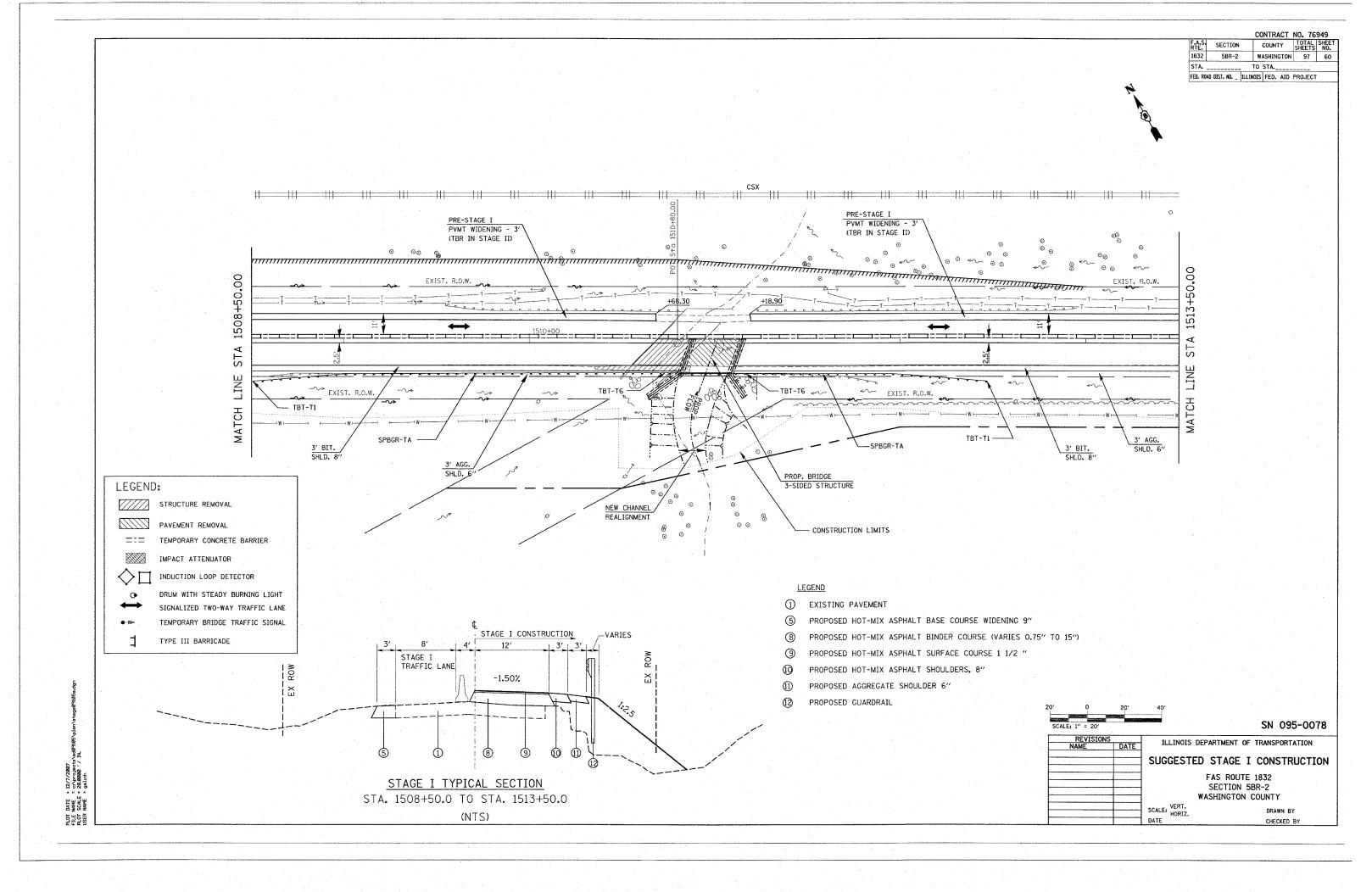
S.N. 095-0078

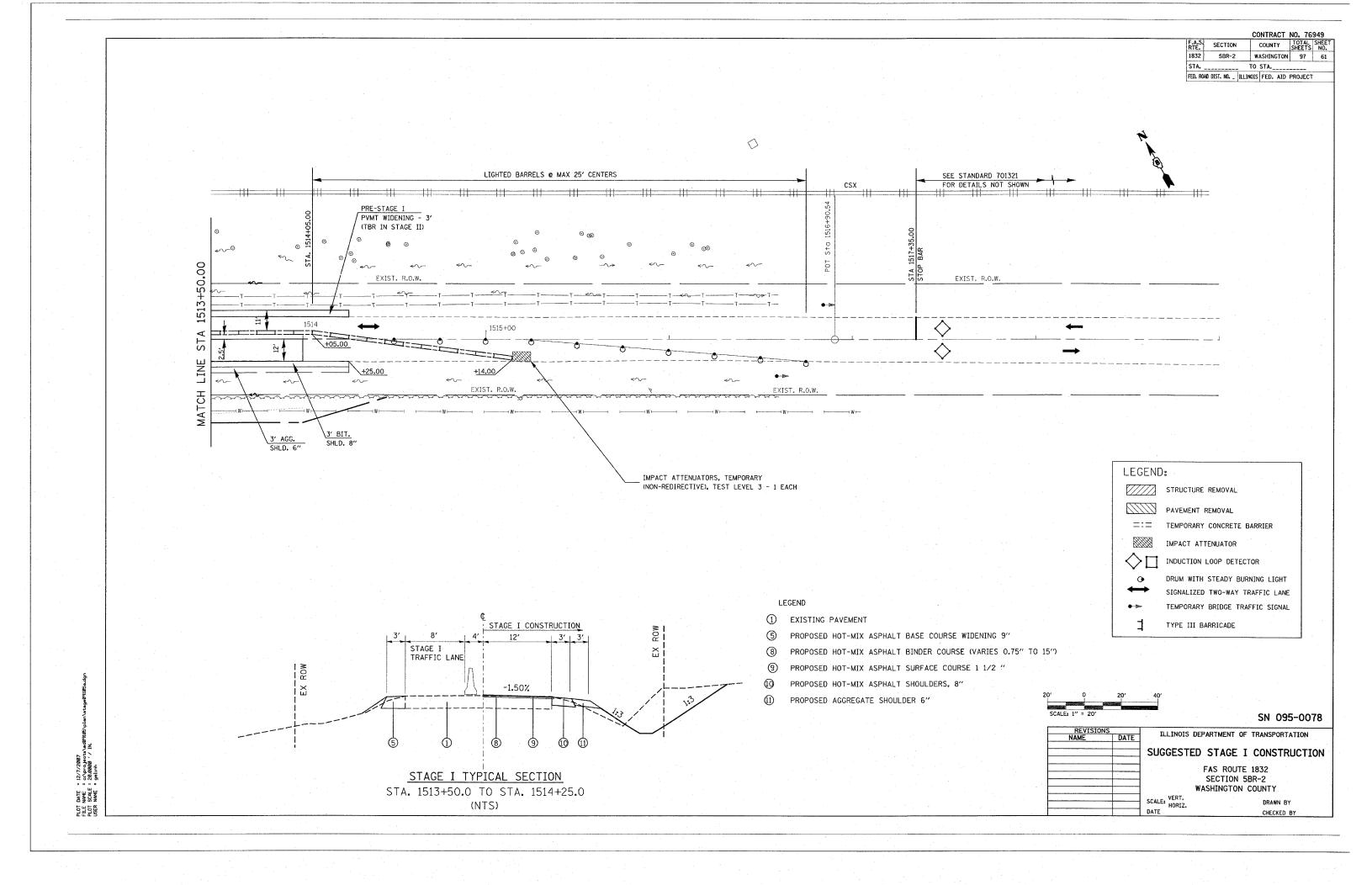
REVISION:		THE TNOTS DEPAR	ARTMENT OF TRANSPORTATION	
NAME	DATE	ILLINOIS DEI AI	TOTAL OF THE STATE	
		SCHEDLI	LE OF QUANTITIES	
		JOHEDOE	LE OF GOARTITIES	
		F.	AS ROUTE 1832	
		5	SECTION 5BR-2	
		WAS	SHINGTON COUNTY	
		SCALE: VERT.	DRAWN BY	
		HORIZ.	UKAWN DI	
		DATE	CHECKED BY	
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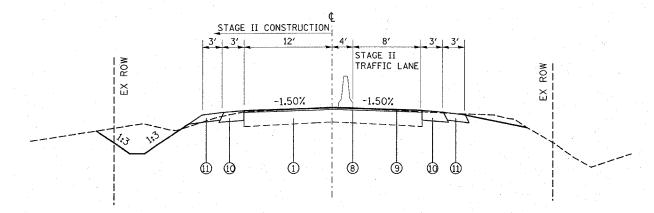






STAGE II CONSTRUCTION:

1. STAGE II CONSTRUCTION SHALL CONSIST OF STAGE II REMOVAL OF THE EXISTING STRUCTURE, AND STAGE II CONSTRUCTION OF THE REPLACEMENT STRUCTURE, REMOVE PRE-STAGE I PAVEMENT WIDENING, PAVEMENT REMOVAL, GRADING, RESURFACING THE LEFT SIDE PAVEMENT EAST AND WEST OF THE STRUCTURE, GUARDRAIL, RIPRAP, ETC. STAGE I & II CONSTRUCTION SHALL BE DONE ACCORDING TO STAGE CONSTRUCTION AS DETAILED IN THE BRIDGE PLANS. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF STANDARD 701321 AND AS DETAILED IN THE STAGE CONSTRUCTION PLANS. THIS TRAFFIC CONTROL SHALL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION 701321 (SPECIAL).



STAGE II TYPICAL SECTION
STA. 1507+75.0 TO STA. 1508+50.0

(NTS)

EXISTING PAVEMENT
 PROPOSED HOT-MIX AS

LEGEND

- ⑤ PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING 9"
- (8) PROPOSED HOT-MIX ASPHALT BINDER COURSE (VARIES 0.75" TO 15")
- PROPOSED HOT-MIX ASPHALT SURFACE COURSE 1 1/2 "
- PROPOSED HOT-MIX ASPHALT SHOULDERS, 8"

PROPOSED AGGREGATE SHOULDER 6"

20' 0 20' 40' SCALE: 1" = 20' SN 095-0078

ILLINOIS DEPARTMENT OF TRANSPORTATION

3' AGG.

LEGEND:

SHLD. 6"

SHLD. 8"

TEMPORARY CONCRETE BARRIER

DRUM WITH STEADY BURNING LIGHT SIGNALIZED TWO-WAY TRAFFIC LANE

TEMPORARY BRIDGE TRAFFIC SIGNAL

INDUCTION LOOP DETECTOR

STRUCTURE REMOVAL
PAVEMENT REMOVAL

IMPACT ATTENUATOR

TYPE III BARRICADE

15. 52 14. LEG. R.

SUGGESTED STAGE II CONSTRUCTION

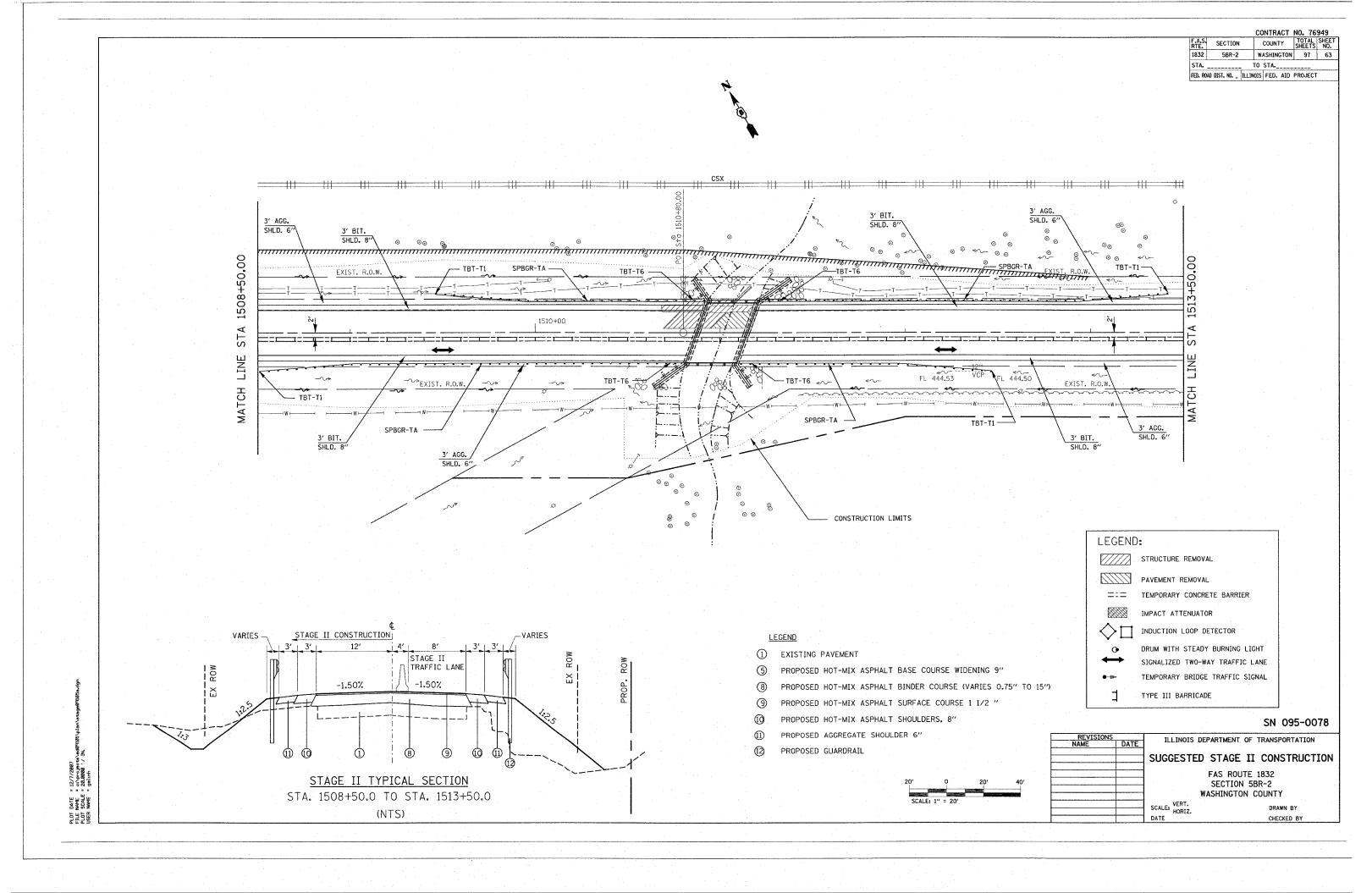
FAS ROUTE 1832 SECTION 5BR-2 WASHINGTON COUNTY

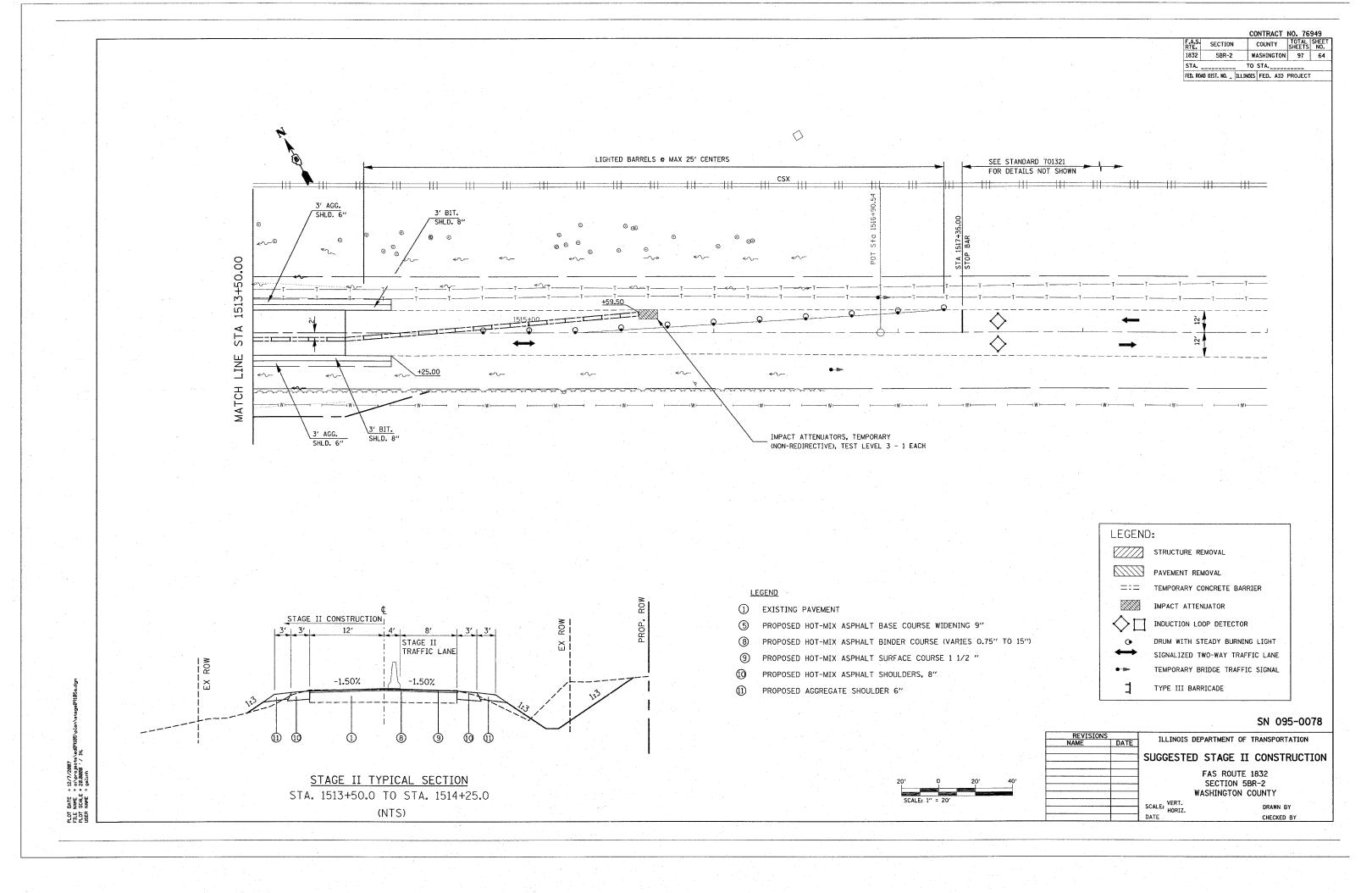
SCALE: VERT. HORIZ. DATE

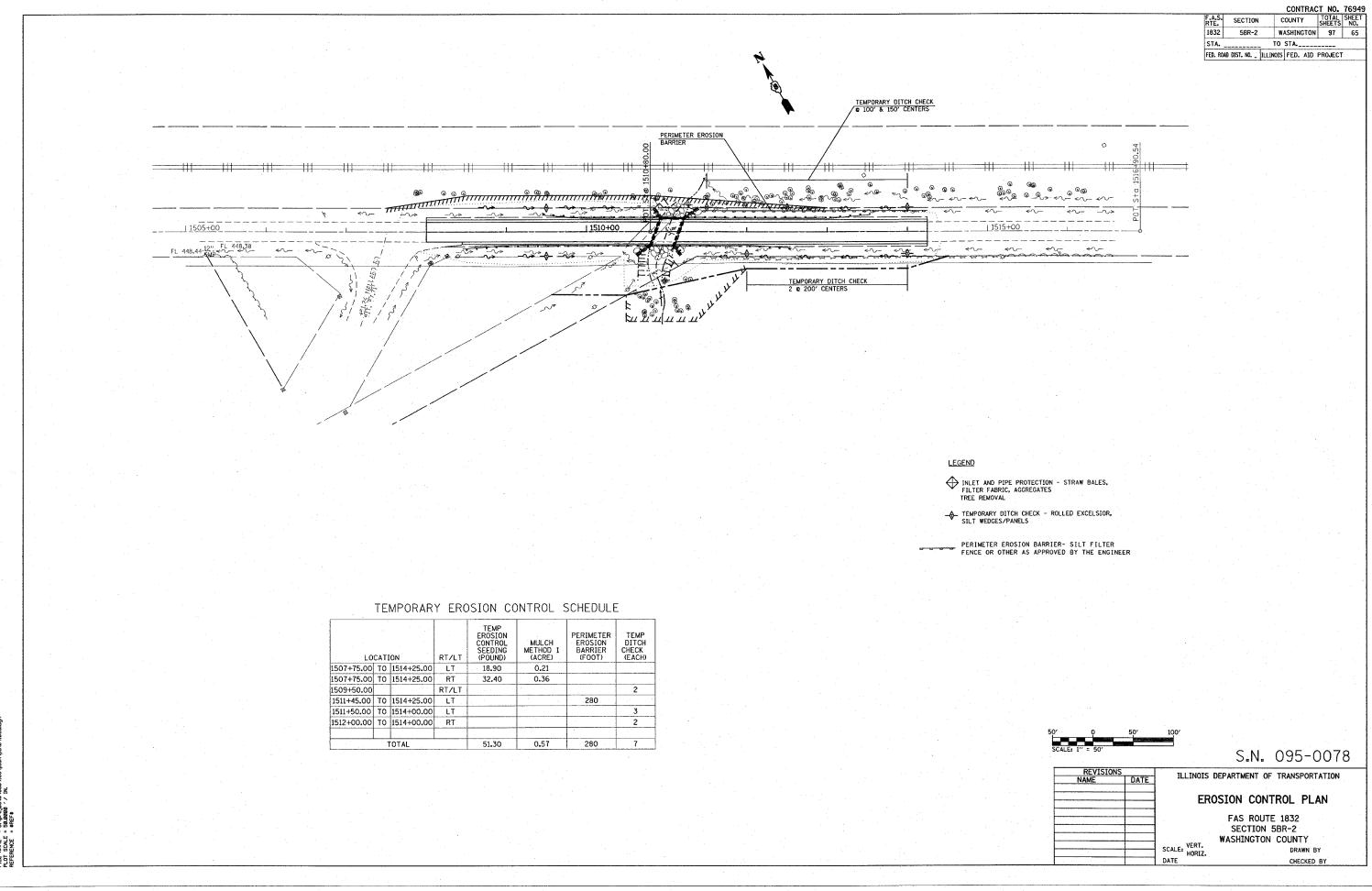
DATE

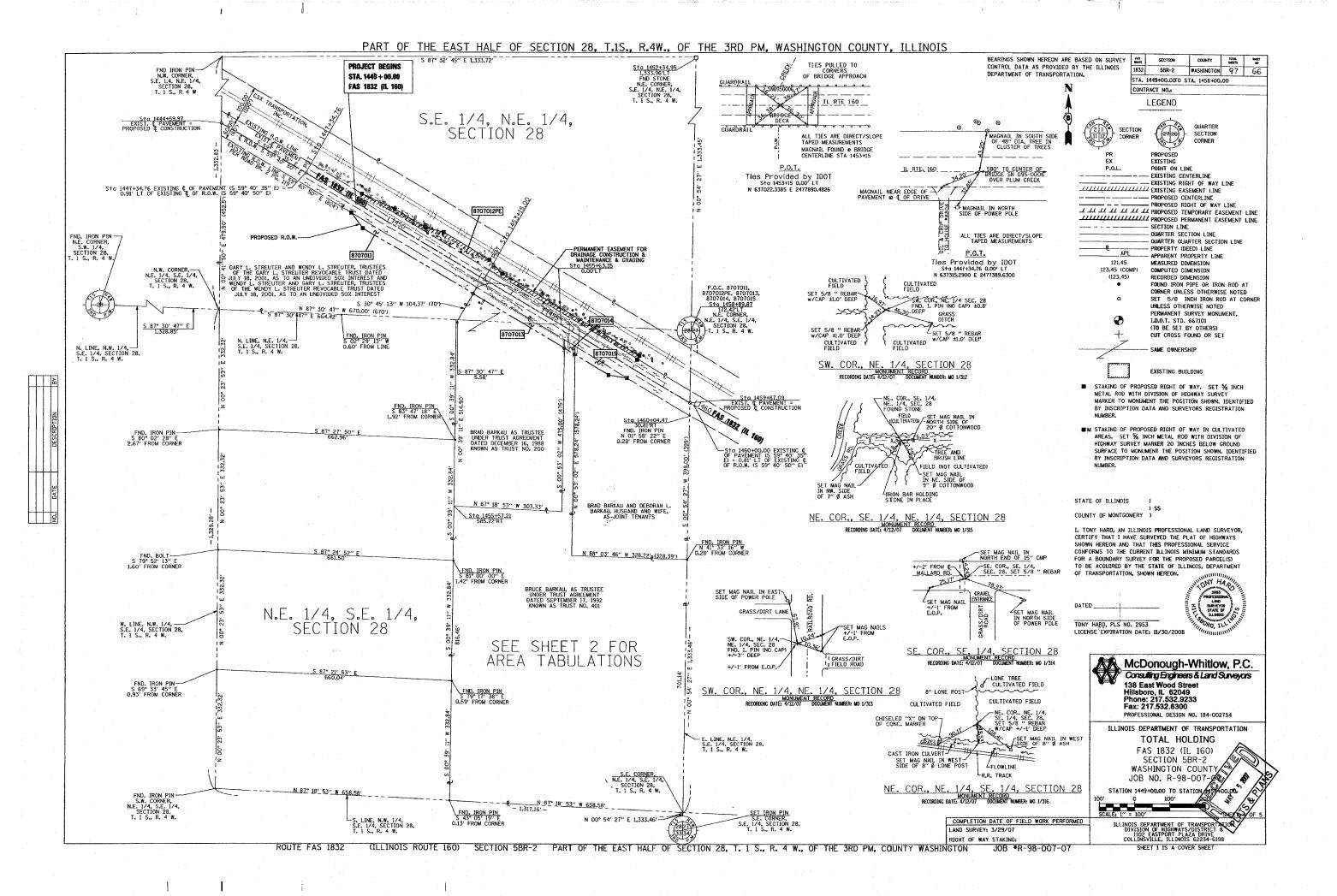
DRAWN BY CHECKED BY

PLOT DATE = 12/7/2887 FILE WHK = at/projects\ed99165\plan\stage8' PLOT SCALE = 28.8889 '/ IN. USER NAME = gallinh









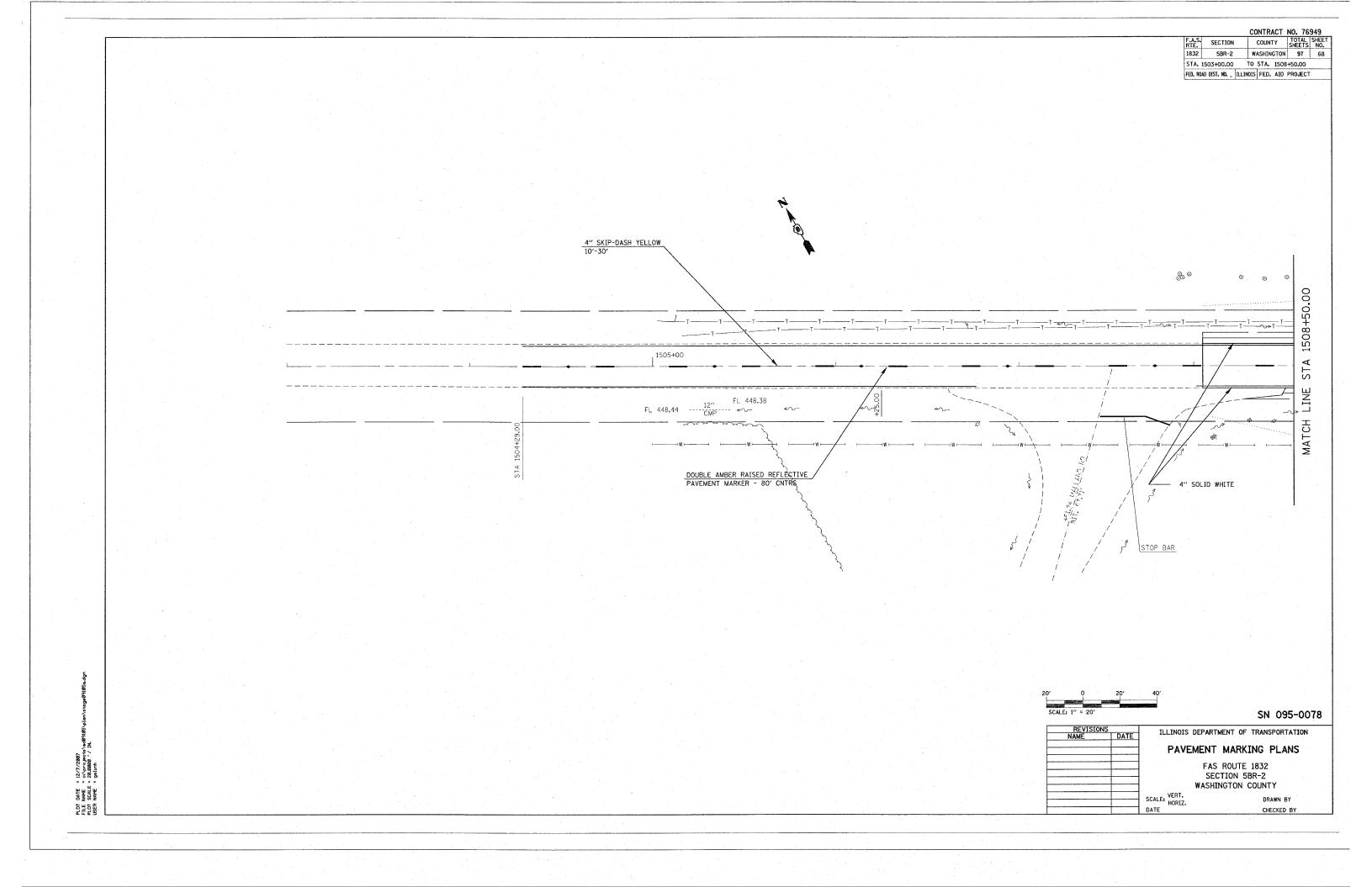
PART OF THE N.E. 1/4 OF THE N.E. 1/4 OF SECTION 34 AND PART OF THE S.E. 1/4 OF SECTION 27, T. 1 S., R. 4 W., OF THE 3RD PM, WASHINGTON COUNTY, ILLINOIS BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS 1832 SECTION COUNTY TOTAL SMEETS SMEET 5BR-2 WASHINGTON 97 STA. 1506+37.55 TO STA. 1514+50.00 C OF HUMMINGBIRD -CONTRACT NO.: TOP AND CENTER 6" WATER VALVE COVER Sta 1505+00.00 EXISTING (*OF PAVEMENT (\$ 59° 40' 35" E) = 0.47' LT OF EXISTING (*OF R.O.W. (\$ 59° 40' 50" E) LEGEND FAS 1832 III 1601 S.E. 1/4, SECTION 27 QUARTER SECTION CORNER PR EX P.O.L. PROPOSED EXISTING POINT ON LINE SET MAG NAIL AT END OF 24" CMP GRAVEL ENTRANCE - EXISTING CENTERLINE
- EXISTING RIGHT OF WAY LINE SOUTHEAST CORNER OF SECTION 27

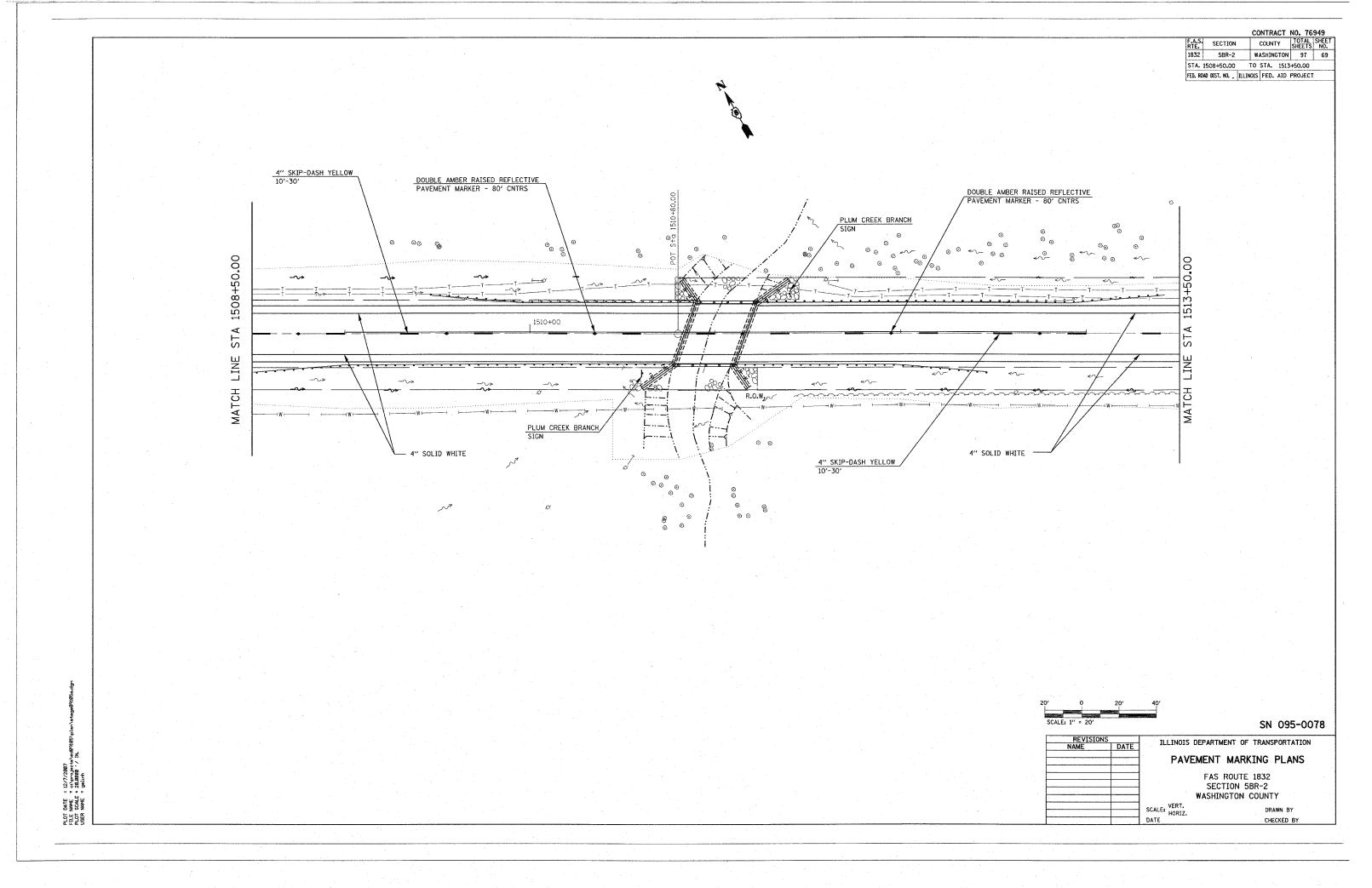
MONUMENT RECORD
RECORDING DATE: 4/12/07 DOCUMENT NAMEER: MO 1/309 THE EXISTING EASEMENT LINE PROPOSED CENTERLINE
PROPOSED RIGHT OF WAY LINE

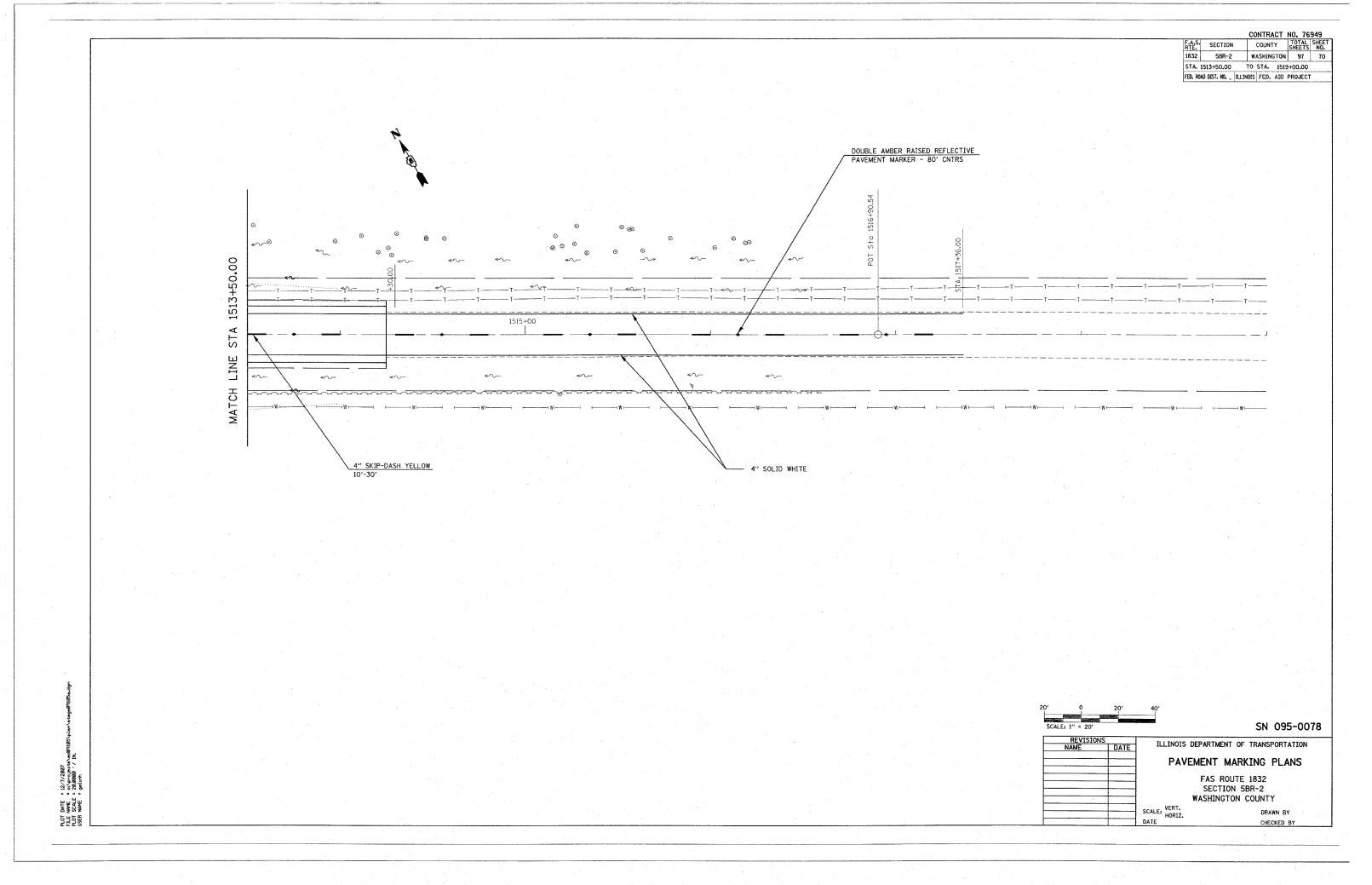
LILLILLILLIPPOPOSED TEMPORARY EASEMENT LINE
LILLILLILLIPPOPOSED PERMANENT EASEMENT LINE PERMANENT EASEMENT FOR DRAINAGE CONSTRUCTION & MAINTENANCE & GRADING GRASS ROAD Sta 1511+46,20 0.00'LT -- SECTION LINE SW. CORNER OF SE. 1/4 OF SE. 1/4 SECTION 27 FOUND IRON PIN BENT TOWARDS WEST - QUARTER SECTION LINE - QUARTER QUARTER SECTION LINE -S. LINE, S.E. 1/4, SE. 1/4, SECTION 27, T. 1 S., R. 4 W. - PROPERTY (DEED) LINE - APPARENT PROPERTY LINE EXISTING R.O.W. LINE SW. COR., SE. 1/4, SE. 1/4, SECTION 27

MONUMENT RECORD
RECORDING DATE: 4/12/07 DOCUMENT NUMBER: NO 1/311 121.45 MEASURED DIMENSION OLD S 88° 12′ 56″ E 388.14′ 86° T.R. 95 COMPUTED DIMENSION RECORDED DIMENSION 123.45 (COMP) (123.45) - \$ 88° 12' 56" E 1,316,44' -EXISTING R.O.W. LINF FOUND IRON PIPE OR IRON ROD AT
CORNER UNLESS OTHERWISE NOTED
SET 5/8 INCH IRON ROD AT CORNER PREVIOUSLY DEDICATED PROJECT ENDS UNLESS OTHERWISE NOTED
PERMANENT SURVEY MONUMENT. STA. 1514 + 50.00 FAS 1832 (IL.160) 1.D.O.T. STD. 667101 N 88° 13′ 14″ W 1,316.43′ CUT CROSS FOUND OR SE Sta 1495+12.63 892.68'RT FND. IRON PIN S.W. CORNER, S.E. 1/4, SECTION 27 T. 1 S., R. 4 W. HOUSE RAVEL SET MAG NAIL IN
PRIVE SET MAG NAIL IN
SECULOR SECULOR OF 15" CMP
SECULOR OF 15" CMP SAME OWNERSHIP EXISTING BUILDING STAKING OF PROPOSED RIGHT OF WAY. SET 1/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY
MARKER TO MUMBUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION ■M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, SET % INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SW. COR., SE. 1/4, SECTION 27

MONUMENT RECORD.
RECORDING DATE: 4/12/07 DOCUMENT NUMBER: MO 1/310 SURFACE TO MARKIMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION DAVID R. AUBEL, AS TRUSTEE UNDER TRUST NO. 4 STATE OF ILLINOIS N.E. 1/4, N.E. 1/4, SECTION 34)) SS W. LINE, N.E. 1/4, N.E. 1/4, SECTION 34, T. 1 S., R. 4 W. I, TONY HARD, AN ILLIMOIS PROFESSIONAL LAND SURVEYOR, CERTIFY THAT I HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CHARRENT ILLINOIS MINIMUM STANDARDS
FOR A BOUNDARY SURBEY FOR THE PROPOSED PARCEL(S) GUARDRAIL TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT TRANSPORTATION, SHOWN HEREON. ALL TIES ARE DIRECT/SLOPE TAPED MEASUREMENTS. MAGNAIL @ BRIDGE CENTERLINE STA 1510+80 ROFESSEMA LAND SURVEYOR STATE OF BLUNOIS Ties Provided by IDOT Sta 1510+80 0.00' LT N 634107.8304 E 2482873.3525 LICENSE EXPIRATION MATE: 11/30/2008 MAGNAIL IN SOUTH SIDE OF END 10" McDonough-Whitlow, P.C. Cassiling Engineers & Land Surveyors MAGNAIL NEAR EDGE OF PAVEMENT, DIRECTLY ACROSS FROM POWER POLE 138 East Wood Street Hillsboro, IL 62049 Phme: 217.532.9233 Fax: 217.532.6300 610.5' EAST OF CENTER OF BRIDGE SN 095-0007 OVER TRTE 160 PROFESSIONAL DESIGN NO. 184-002754 S. LINE, N.E. 1/4, N.E. 1/4, SECTION 34, T. 1 S., R. 4 W. PLUM CREEK BRANCH ILLINOIS DEPARTMENT OF TRANSPORTATION TOTAL HOLDING MAGNAIL IN NORTH SIDE OF POWER POLE NO PASSING SIGN FAS RTE 1832 (IL 160) N 88° 12′ 56″ W 1,316.44′ SECTION 5BR-2
WASHINGTON COUNT
JOB NO. R-98-007-00
STATION 1806+37.55 TO STATION 14450,00 SECTION 5BR-2 ALL TIES ARE DIRECT/SLOPE TAPED MEASUREMENTS MAGNAIL (CENTERLINE STATION 1516+90.54 P.O.T. Ties Provided by IDOT Sta 1516+90.54 0.00' LT N 633799.5817 E 2483400.3583 COMPLETION DATE OF FIELD WORK PERFORMED ROUTE FAS 1832 (ILLINOIS ROUTE 160) SECTION 5BR-2 PART OF THE N.E. 1/4 OF SECTION 34 AND PART OF THE S.E. 1/4 OF SECTION 27, T. 1 S., R. 4 W., OF THE 3RD PM, COUNTY WASHINGTON JOB # R-98-007-07 SHEET 1 IS A COVER SHEE







Bench Mark: Chiseled square on bridge abutment @ NW corner of structure 095-0007 Sta. 1510+84.7, 18.4 ft. Left. Elev. 445.40

Existing Structure: S.N. 095-0007 Built in 1921 as S.B.I. Route 15, Section 5B at Station 1510+80 as a 1 span RC slab bridge. Closed abutments on spread footings.

1971 superstructure replacement, and widening, with PPC deck beams. Existing bridge to be removed and replaced. Traffic maintained using stage construction.

No salvage

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.S. 1832 97 71 5BR-2 WASHINGTON

SHEET NO. 112 SHEETS

Contract #76949

Curb Mounted (2399) 32'-0" Face To Face 12'-0'' 12'-0" 4'-0" U/S Streambed D/S Streambed Elev. 439.72 Elev. 439.72 _P.G. 316_"/" Precast wing wall D.H.W. Elev. 446.68 (typical) Elev. 433.50 Elev. 433.50 Cast-in-place footing LONGITUDINAL SECTION

Temporary Soil

Traffic Barrier

Std. 631032 typ.

Existing

Line

Telephone -

Terminal Type 6A-

Retention System

<u>€</u> IL. Rte. 160

Stone Riprap

Class A5 typ.

Sta. 1511+01.00

Elev. 449.08 💠

Boring B-

Existing

Structure

Steel Bridge Rail

Flow **◆**-\

(proposed)

Existing footing &

Wingwall removal. Cost

included with Removal

of Existing Structures

Realignment

(see Roadway Plans)

Note: Channel diversion shall be

approved by Field Engineer.

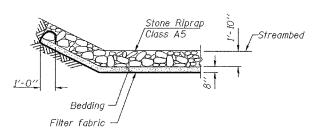
*1'-0' 28'-0" *1'-0" @ Rt. L to stream -Streambed Elev. 433.50 Elev. 433.50 Cast-in-place SECTION THRU STRUCTURE footing typ.

INDEX OF SHEETS

- General Plan and Elevation
- Stage Construction Details Temporary Soil Retention System
- Geotextile Retaining Wall
- Temporary Concrete Barrier
- 6-7 Footing Details
- Wingwall Details
- 9 Headwall Details
- 10 Bar Splicer Details
- 11 Steel Bridge Rail Details
- 12 Soil Boring Logs

- *Slab and wall thickness and shape may vary as per manufacturer's design.
- **Stage I west footing to be constructed ±2' into Stage II Construction
- ***Based on Con Span sections that have a minimum rise of 9'-0".

Note: The selected structure by the contractor shall provide a hydraulically equivalent waterway opening specified in the waterway information table.



STATION 1511+01.00

BUILT 20 BY

STATE OF ILLINOIS F.A.S. RTE 1832 - SEC. 5BR-2

LOADING HS20

STRUCTURE NO. 095-0078

NAME PLATE

SECTION A-A

DESIGN SCOUR **ELEVATION TABLE**

 Design Scour
 D.S.
 U.S.

 Elev. (ft.)
 437.72
 437.72

SEISMIC DATA

Seismic Performance Category (SPC) = B Bedrock Acceleration Coefficient (A) = .11q Site Coefficient (S) = 1.5

LOADING HS20

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

DESIGN SPECIFICATIONS 2002 AASHTO

DESIGN STRESSES

FIELD UNITS

 $f_{\rm G}' = 3,500 \ psi$

= 60,000 psi (reinforcement)

PRECAST UNITS

- $f_c' = 5.000 \ psi$
- $f_y = 60,000$ psi (reinforcement)

$f_y = 65,000 \text{ psi (welded wire fabric)}$

Range 4W - 3rd, PM

LOCATION SKETCH

GENERAL PLAN AND ELEVATION IL. RTE. 160 OVER PLUM CREEK BRANCH F.A.S. RTE. 1832 - SEC. 5BR-2 WASHINGTON CO. STATION 1511+01.00

STRUCTURE NO. 095-0078

Boring B-2

Stage II Const.

Temporary Soil

Retention System

Retaining Wall

PLAN

35'-0" Out to Out of Headwall (minimum)

Drainage Area	= 0.87	√ sq. mi	. Low G	Grade Ele	v. 447.4	19 ft.	© Sta.	1510+95	<u> </u>
Flood	Freq.	a	Opening	Sq. Ft.	Nat.	Head	- Ft.	Headwo	ater E
r 100a	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop
Design	50	741	79.84	139.00	446.68	1.54	1.16	448.22	447.8
Base	100	860	79.84	139.00	446.85	1.58	1.52	448.43	448.3
Exist. Overtop.	15	516	79.84	N/A	446.17	1.32	N/A	447.49	N/A
Prop. Overtop.	35	670	N/A	139.00	446.54	N/A	0.95	N/A	447.4
Scour	10	466	79.84	139.00	446.03	1.08	0.48	447 11	116 5

WATERWAY INFORMATION

PROFILE GRADE

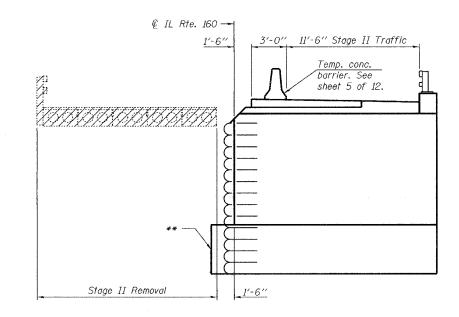
LVC = 285'

1.88%

-0.07%

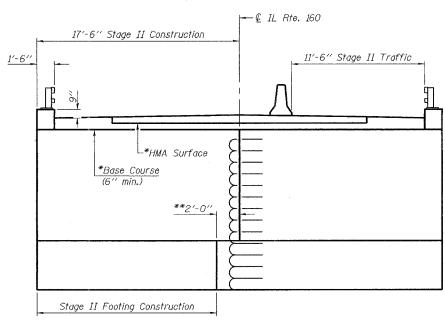
CHECKED MACDICENTAL DRAWN Long James CHECKED NRB/GRA

EXPIRES 11-30-2008



STAGE II REMOVAL

(Looking East at New West footing at Rt. L to Footing)



STAGE II CONSTRUCTION

(Looking East at New West footing at Rt. L to Footing)

Note: For quantity of Temporary Concrete Barrier, see Roadway Plans. AGUTE HO. GESTION COLARTY STREET

F.A.S. 1832 SBR-2 WASHINGTON 97 72

FED. NOND DIST. NO. 7 ILLANDIS FED. AND PROJECT-

SHEET NO. 2

12 SHEETS

Contract #76949

GENERAL NOTES

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

Reinforcement bars designated (E) shall be epoxy coated.

The option of using a precast footing is not allowed.

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

After the keyways have been grouted and cured, the joints on the three sides of the structure shall be externally sealed using 13" wide external sealing bands conforming to Article 1057.01. Cost included with Three-Sided Precast Concrete Structures.

The footing design is based on the following maximum reactions applied at the top of the footing:

Vertical 15.4 k/ft Horizontal 6.3 k/ft

The contractor shall verify that the selected structure meets these design parameters. If the design parameters are exceeded, a complete footing design with calculations, details, signed and sealed by an Illlinois Licensed Structural Engineer shall be submitted for review and approval.

All construction joints shall be bonded.

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

Dimensions for the Three-Sided Precast are for a Con Span section. Hy-Span, REDI-SPAN Bridge System and BEBO-Arch System are also acceptable, but dimensions may vary.

It shall be the responsibility of the Contractor to divert the stream flow during construction in order to keep the construction areas free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be included with the cost of "Concrete Structures".

Structural Seal does not include design of Precast elements.

For backfilling and embankment, see Standard Specifications.

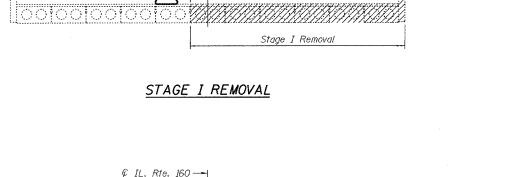
All exposed edges shall be chamfered $\frac{3}{4}$ ". Allowable Bearing Pressure for Footing = 4 ksf.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures No. 2	Each			1
Name Plates	Each	1		1
Stone Riprap, Class A5	Sq. Yd.			340
Filter Fabric	Sq. Yd.			340
Concrete Structures	Cu. Yd.		145.0	145.0
Reinforcement Bars, Epoxy Coated	Pound		6590	6590
Bar Splicers	Each		28	28
Structure Excavation	Cu. Yd.		365	365
Three Sided Precast Concrete Structure, 28' x 9'	Foot	37.25		37.25
Temporary Soil Retention System	Sq. Ft.			444.1
Steel Rail_ Type 2399 🔥	Foot	64		64
Geotextile Retaining Wall 🔼	Sq. Ft.	Ď	(17123
Precast Concrete Substructure	I. Sum		1	1
Concrete Sealer	Sq. Ft.	144		144

STAGE CONSTRUCTION DETAILS
F.A.S. RTE. 1832 - SEC. 5BR-2
WASHINGTON COUNTY
STATION 1511+01.00
STRUCTURE NO. 095-0078

A Rev. 2-19-08



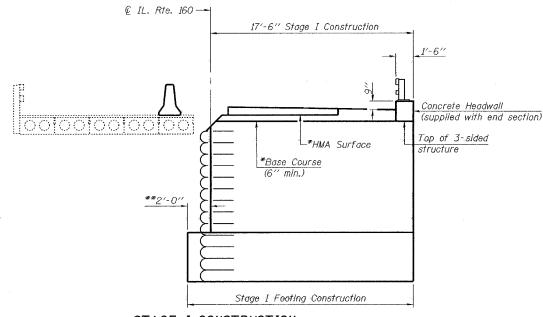
← £ IL Rte. 160

1'-6''

12'-0" Stage I Traffic

barrier. See

sheet 5 of 12



STAGE I CONSTRUCTION
(Looking East at New West footing at Rt. L to Footing)

*For quantities of HMA Surface and Base Course, see Roadway Plans.

**Stage I west footing to be constructed 2'-0" © Rt. L to © IL Rte. 160 into Stage II Construction.

DESIGNED Nicholas R. Barnett

CHECKED Ray Ahanchi

DRAWN Gregory D. Farmer

CHECKED NRB/GRA

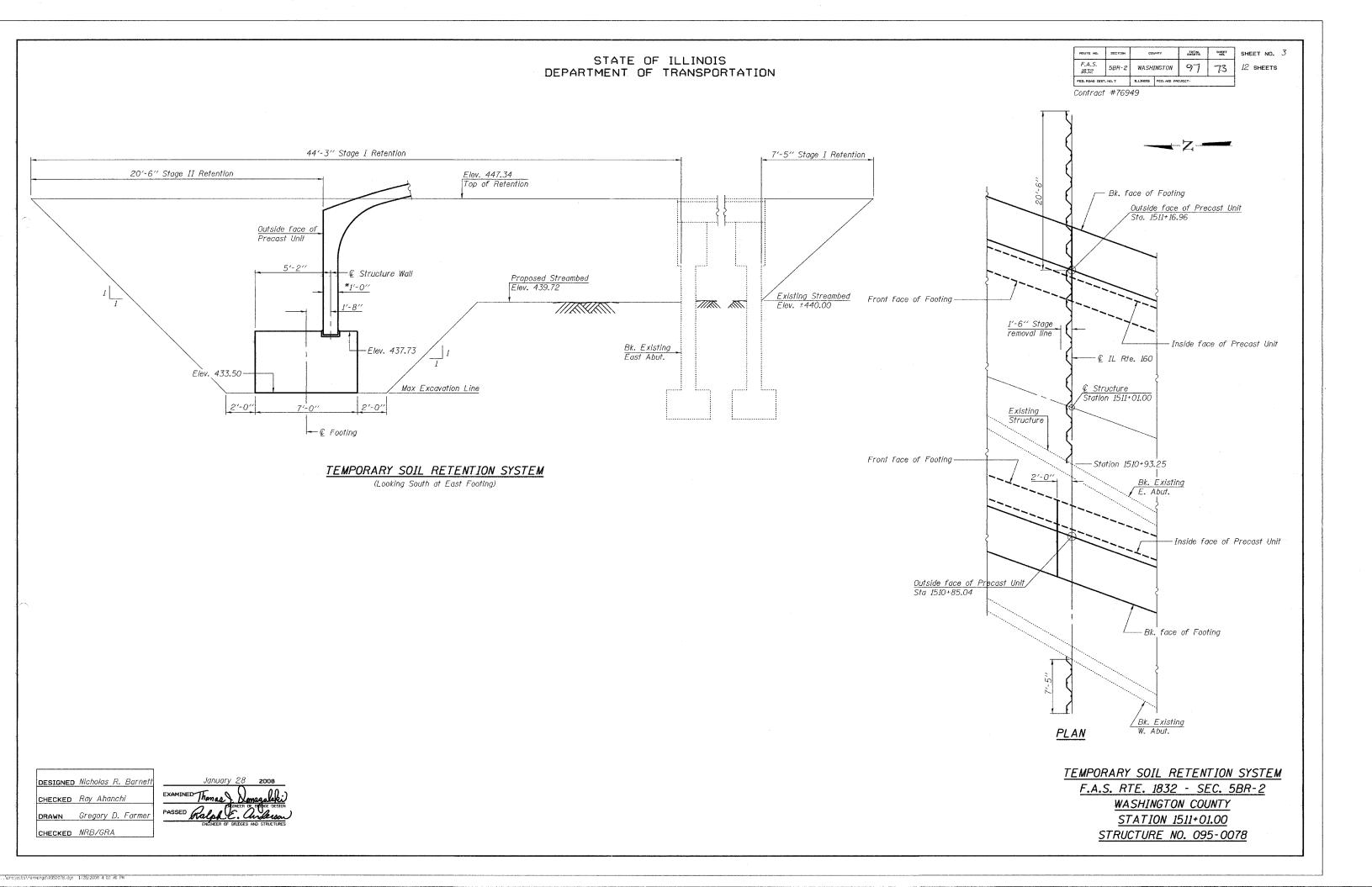
January 28 2008

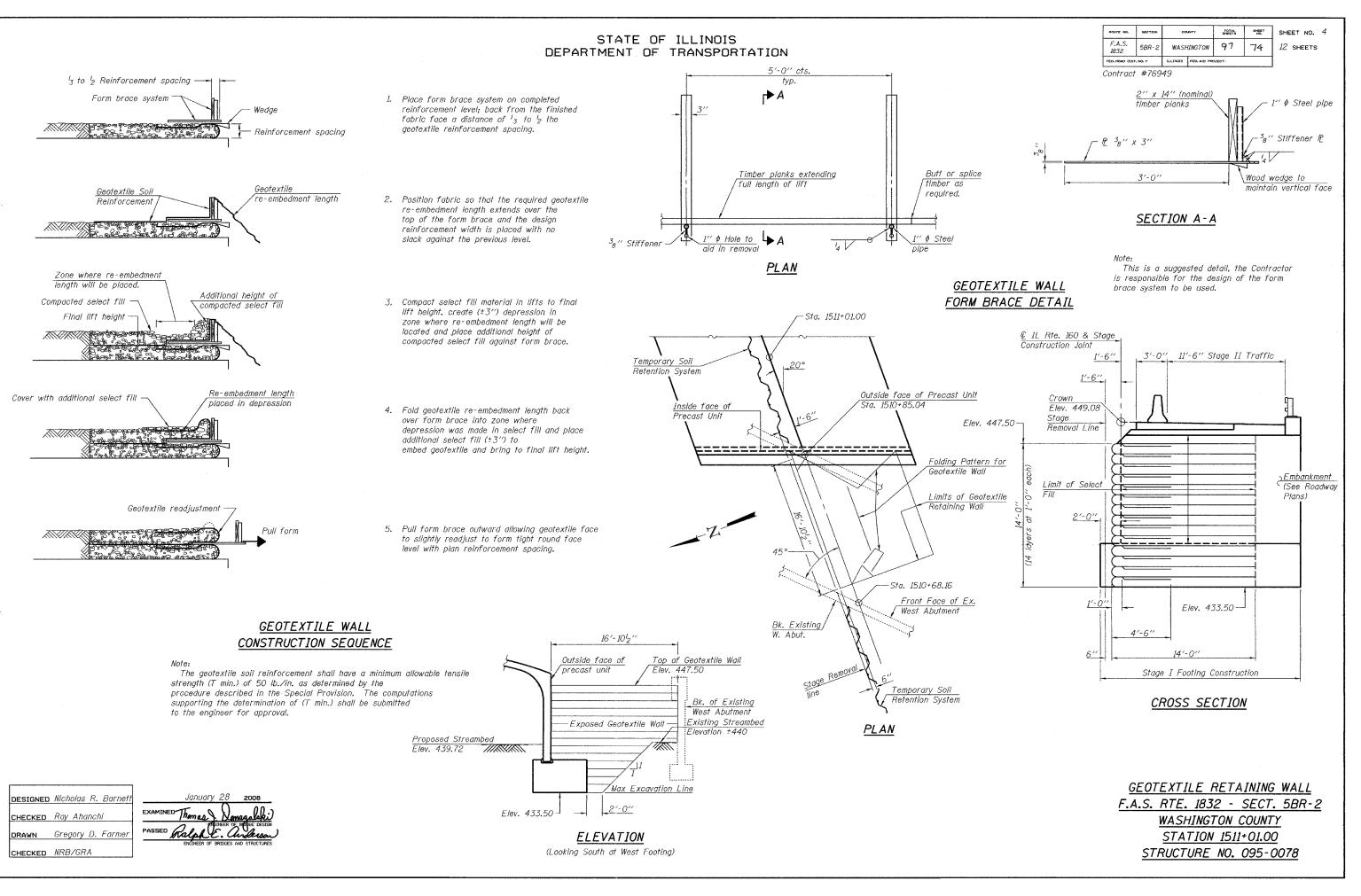
EXAMINED Thomas Semanable

PASSED Ralph E. Combardo

ENCHECKED OF BRIDGES AND STRUCTURE

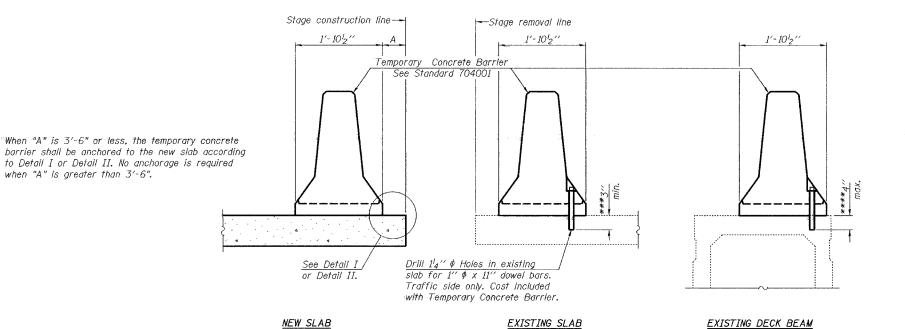
ENCHECKED OF BRIDGES AND STRUCTURE





ROUTE NO.	SECTION COUNTY		COUNTY		COUNTY		SHEET NO.	SHEET NO.	5
F.A.S. 1832	5BR-2	WASHINGTON		97	75	12 SHEETS			
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PRO	OJECT-	•				

Contract #76949



NOTES

Detail I - With Bar Splicer or Couplers: Connect one (1) 1"x7"x10" steel £ to the top layer of couplers with 2-58" ♦ bolts screwed to coupler at approximate & of each barrier panel.

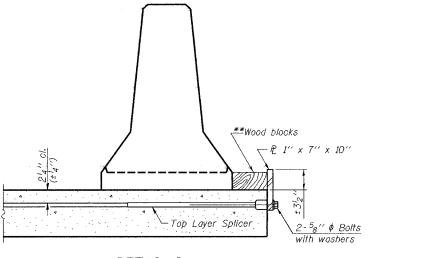
Detail II - With Extended Reinforcement Bars: Connect one (1) 1"x7"x10" steel 12 to the concrete slab or concrete wearing surface with 2-58"\$ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate © of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

SECTIONS THRU SLAB OR DECK BEAM

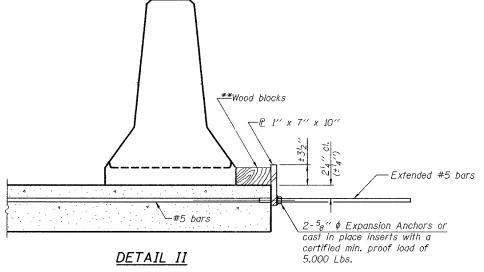
***Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

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

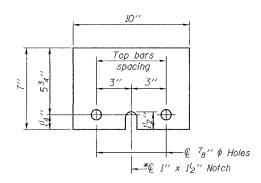


DETAIL I

when "A" is greater than 3'-6".



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



STEEL RETAINER P 1" x 7" x 10"

* Required only with Detail II

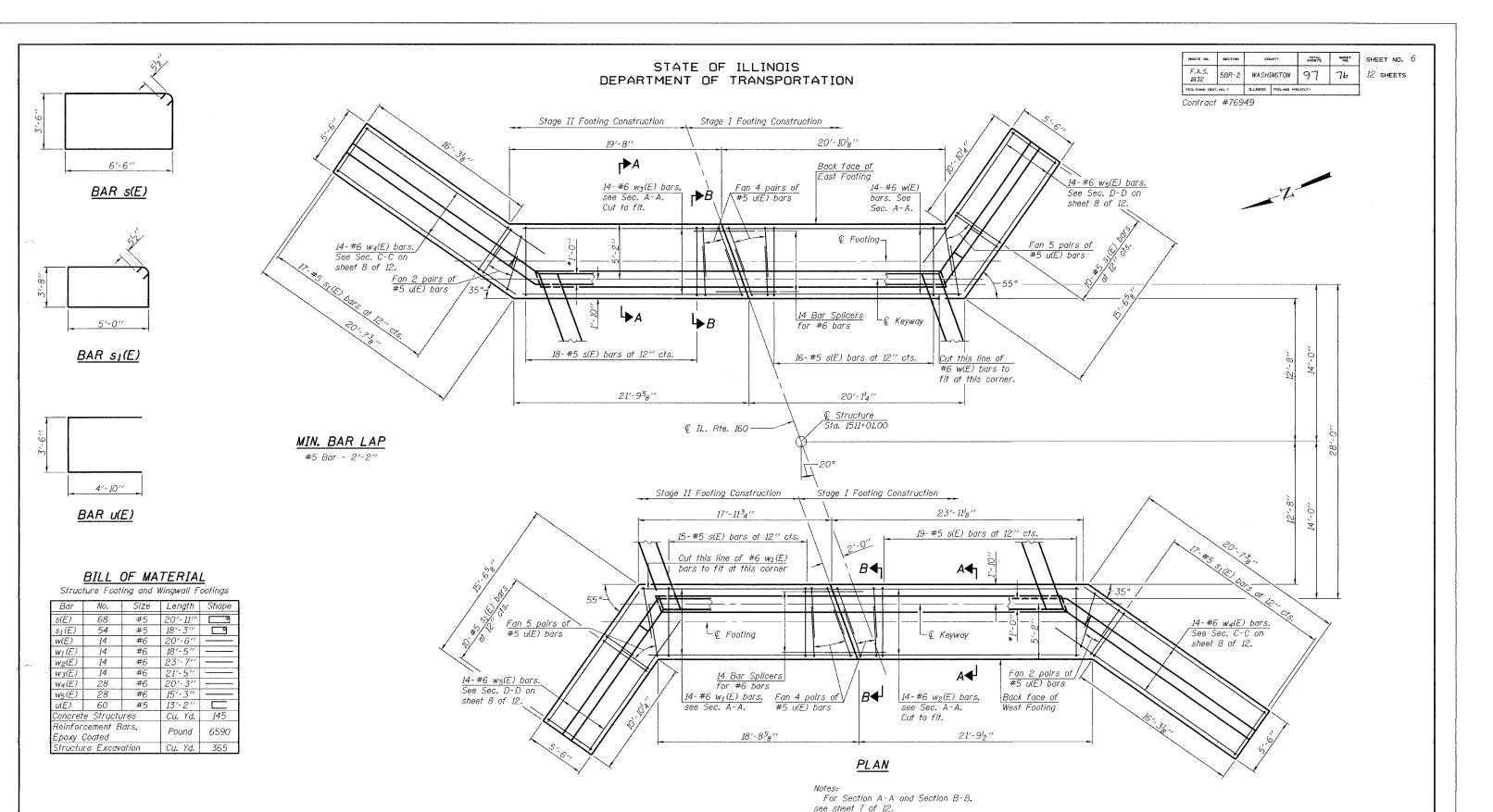
TEMPORARY CONCRETE BARRIER F.A.S. RTE. 1832 - SEC. 5BR-2 WASHINGTON COUNTY STATION 1511+01.00 STRUCTURE NO. 095-0078

DESIGNED Nicholas R. Barnet CHECKED Ray Ahanchi PASSED Mal DRAWN Gregory D. Farmer CHECKED NRB/GRA

9-3-07

R-27

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DESIGNED Nicholas R. Barnet
CHECKED Ray Ahanchi

DRAWN Gregory D. Farmer

CHECKED NRB/GRA

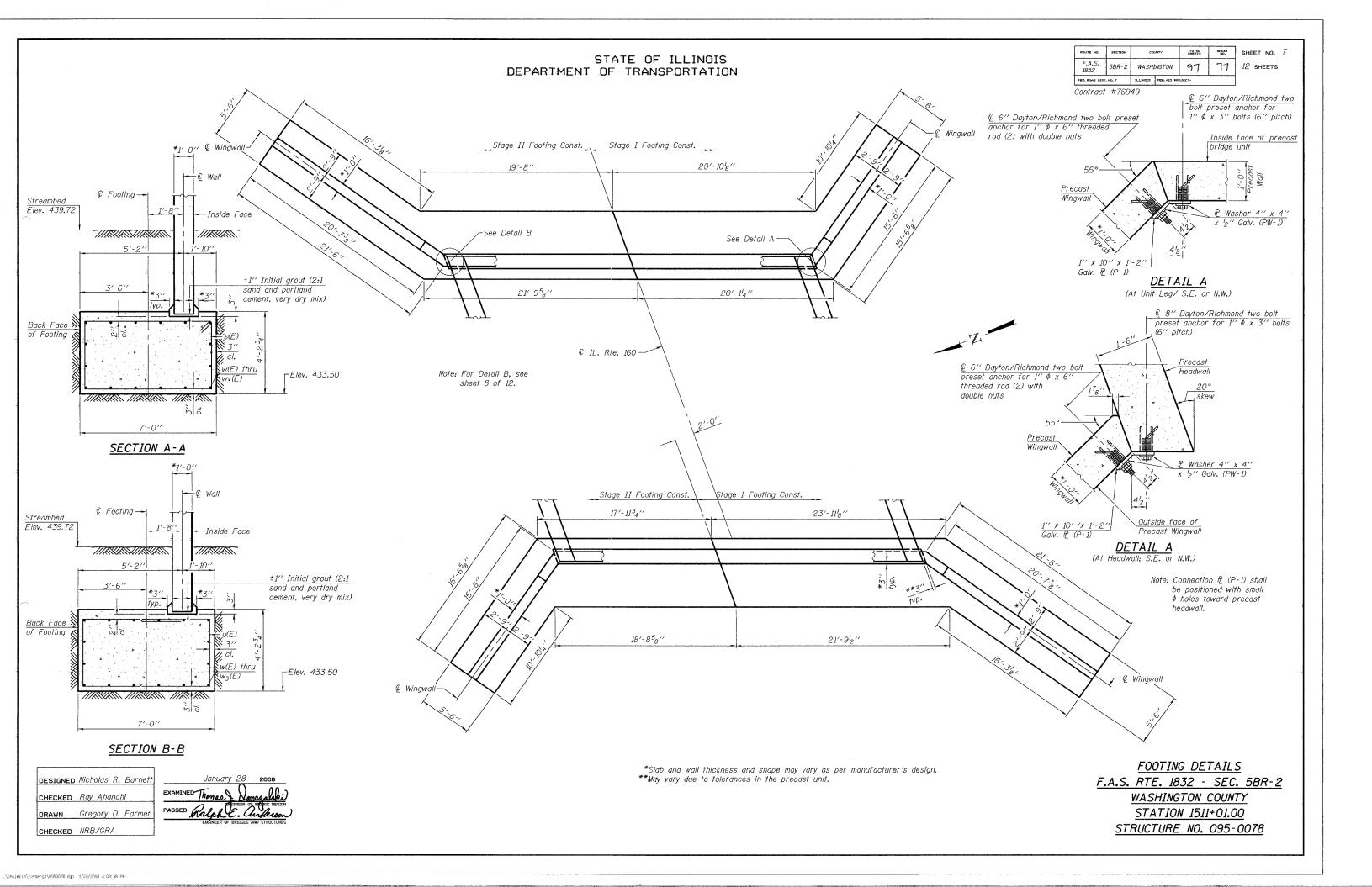
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EXAMINED Thomas Umagaliki
PASSED GLIBA E. GLIBARION
ENGINEER OF BRIDGES AND STRUCTURES

*Slab and wall thickness and shape may vary as per manufacturer's design.

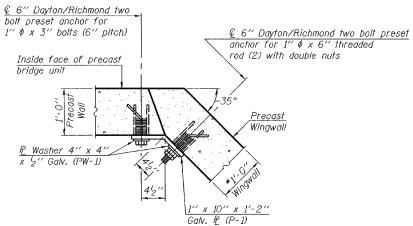
Minimum spacing between pairs of 4-#5 u(E) bars shall be $2\frac{1}{2}$.

F.A.S. RTE. 1832 - SECT. 5BR-2
WASHINGTON COUNTY
STATION 1511+01.00
STRUCTURE NO. 095-0078



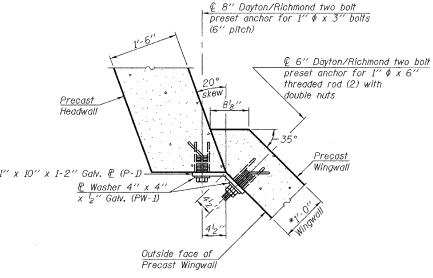


Contract #76949



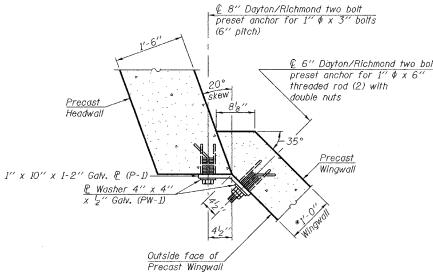
DETAIL B

(At Unit Leg; S.W. or N.E.)



be positioned with small # holes toward precast headwall.

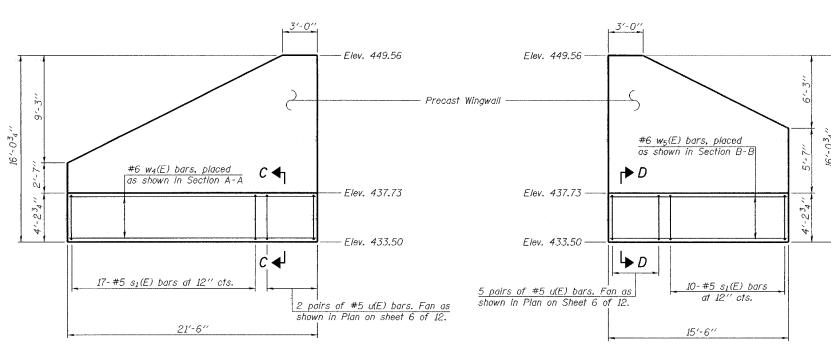
bolt preset anchor for 1" \$\phi x 3" botts (6" pitch)



DETAIL B (At Headwall; S.W. or N.E.)

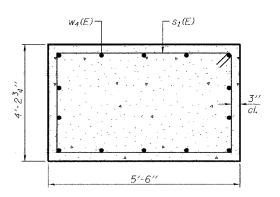
Note: Connection № (P-1) shall

PRECAST WINGWALL DETAILS F.A.S. RTE. 1832 - SEC. 5BR-2 WASHINGTON COUNTY STATION 1511+01.00 STRUCTURE NO. 095-0078



NORTHEAST AND SOUTHWEST WINGWALLS

(Looking Inside Face)



SECTION C-C

Note: Reinforcement for wingwalls is to be determined by the fabricator. Precast Wingwall & associated hardware is billed as Precast Concrete Substructure, SECTION D-D

NORTHWEST AND SOUTHEAST WINGWALLS

(Looking Inside Face)

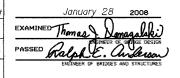
w₅(E)

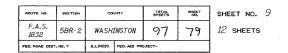
DESIGNED Nicholas R. Barnet

CHECKED Ray Ahanchi

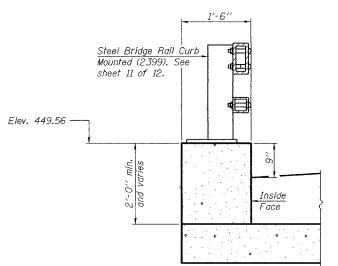
Gregory D. Farmer

CHECKED NRB/GRA



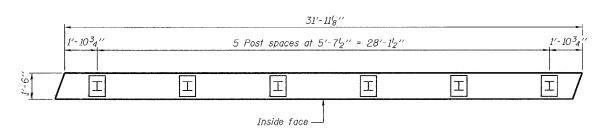


Contract #76949

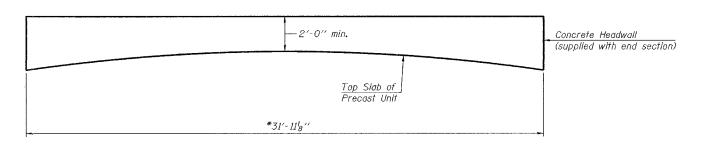


Note: Headwall to be designed by precast provider. Concrete Sealer shall be applied to top and inside exposed face of Precast Headwall. Headwall shall be designed per AASHTO Art. 2.7 of Standard Specifications.

SECTION THRU HEADWALL



PLAN OF HEADWALL POST LAYOUT



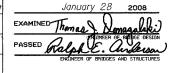
PRECAST HEADWALL ELEVATION

*Dimension measrured along inside face of headwall

DESIGNED Nicholas R. Barnet CHECKED Ray Ahanchi

DRAWN Gregory D. Farmer

CHECKED NRB/GRA

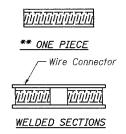


HEADWALL DETAILS F.A.S. 1832 - SEC. 5BR-2 WASHINGTON COUNTY STATION 1511+01.00 STRUCTURE NO. 095-0078



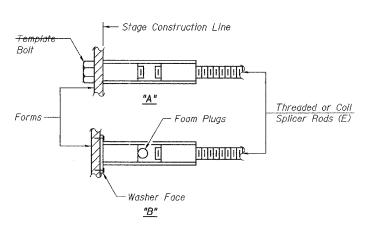


ROLLED THREAD DOWEL BAR



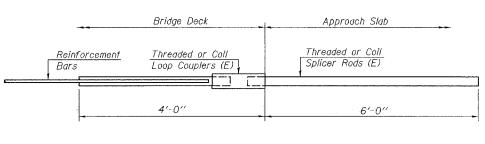
BAR SPLICER ASSEMBLY ALTERNATIVES

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



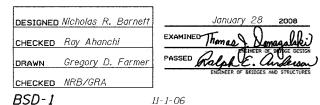
INSTALLATION AND SETTING METHODS

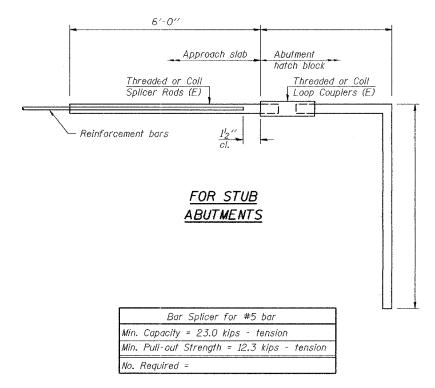
"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.

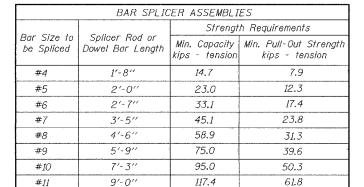


FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

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







NOTES Bar splicer assemblies shall be of an approved type and shall develop in tension at least

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

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

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

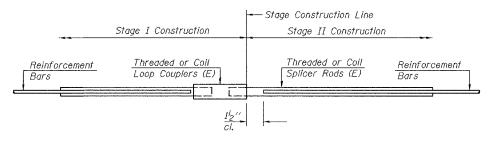
Minimum *Pull-out Strength = $0.66 \times fy \times A_t$

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

125 percent of the yield strength of the lapped reinforcement bars.

bar splicer assembly satisfies the following requirements: Minimum Capacity (Tension in kips) = $1.25 \times fy \times A_t$

reinforcement bars.

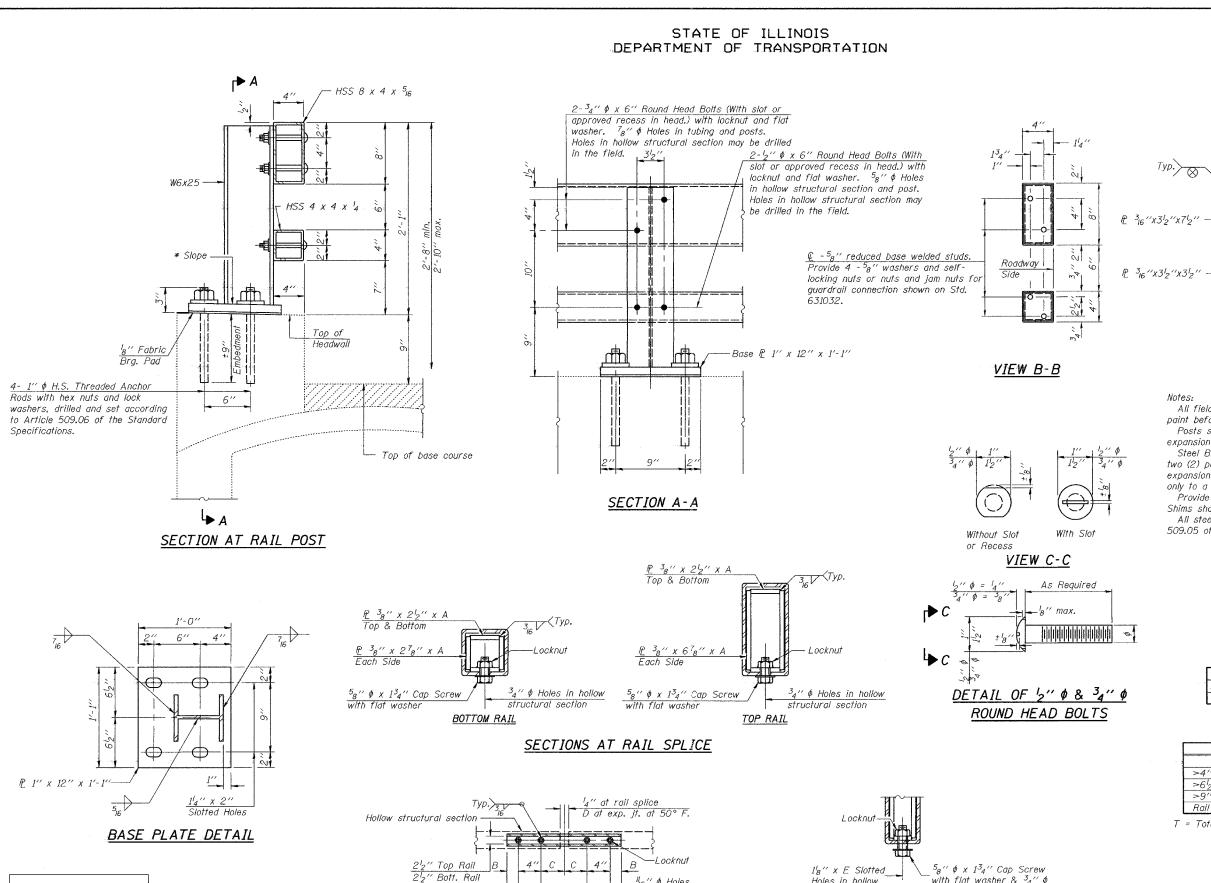


STANDARD

Bar Size	No. Assemblies Required	Location
#6	28	Footing

BAR SPLICER ASSEMBLY DETAILS F.A.S. 1832 - SEC. 5BR-2 WASHINGTON COUNTY STATION 1511+01.00 STRUCTURE NO. 095-0078

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PLAN-BOTT. SPLICE P

TYPICAL

1'8" x E Slotted

RAIL SPLICE CONNECTION

AT EXPANSION JT.

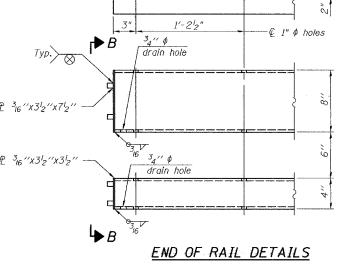
Holes in hollow

structural section

 $^{5}8^{\prime\prime}$ ϕ x $1^{3}4^{\prime\prime}$ Cap Screw

with flat washer & 34" \$

XS pipe spacer, '2" long.



F.A.S. 1832

5BR-2

Contract #76949

WASHINGTON

SHEET NO.

81

97

SHEET NO. 11

12 SHEETS

All field drilled holes shall be coated with an approved zinc rich paint before erection.

Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.

Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.

Provide one 18" and two 16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	64'-0"

SPLICE DIMENSIONS

	Ť	D	Α	В	С	E
- 4	≤4″	21/2"	1'-8''	2"	4''	22"
	>4"≤6 ¹ 2"	334''	2'-0"	2/2"	5/2"	312"
	>6 ^l 2"≤9"	5′′	2'-4''	3/2"	612"	9"
	>9′′≤13′′	7''	2'-10''	4/2"	82"	11''
	Rail Splice	4"	1'-8''	2"	4′′	

T = Total movement at expansion joint as shown on the design plans.

STEEL RAILING, TYPE 2399 F.A.S. RTE 1832 - SEC. 5BR-2 WASHINGTON COUNTY STATION 1511+01.00 STRUCTURE NO. 095-0078

(6'-3" Maximum Post Spacing)

DESIGNED Nicholas R. Barnet

DRAWN Gregory D. Farmer

PASSED

11-1-06

CHECKED Ray Ahanchi

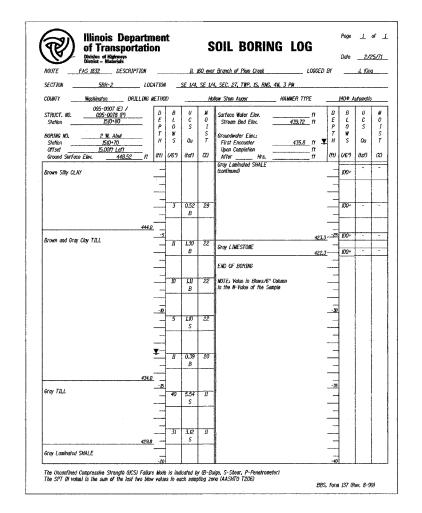
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F.A.S. 1832	5BR-2	WASHINGTON		97	82	12 SHEETS		
FEO. ROAD DIST	. NO. 7	ILLINOIS FEO. AID PR		OJECT-				

Contract #76949

Illinois Dep of Transpor	partment		SOI	L BORING	ING	F	age.	1	ЭĒ
Division of Highways District - Materials	tauvii		001	L BOILING	LOG	L)ate	2/2	25/7
ROUTE FAS 1832 DESCRI	PTION	IL 160	over Branch	of Plum Creek	LOGGED	BY		J. Kin	7
SECTION 58R-2	LOCATION	SE 1/4	SE 1/4, SEC	. 27. TWP. IS, RNG. 4W.	3 PN				
COUNTY Washington BF	RILLING METHOD		Hollow Ste	m Auger	HAMMER TYPE		0# Au	tomatic	
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BORING NO1 E. Abut	T	w	الما	ndwater Elev.:		7	w	,	Ś
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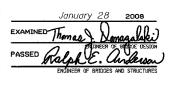


DESIGNED Nicholas R. Barnett

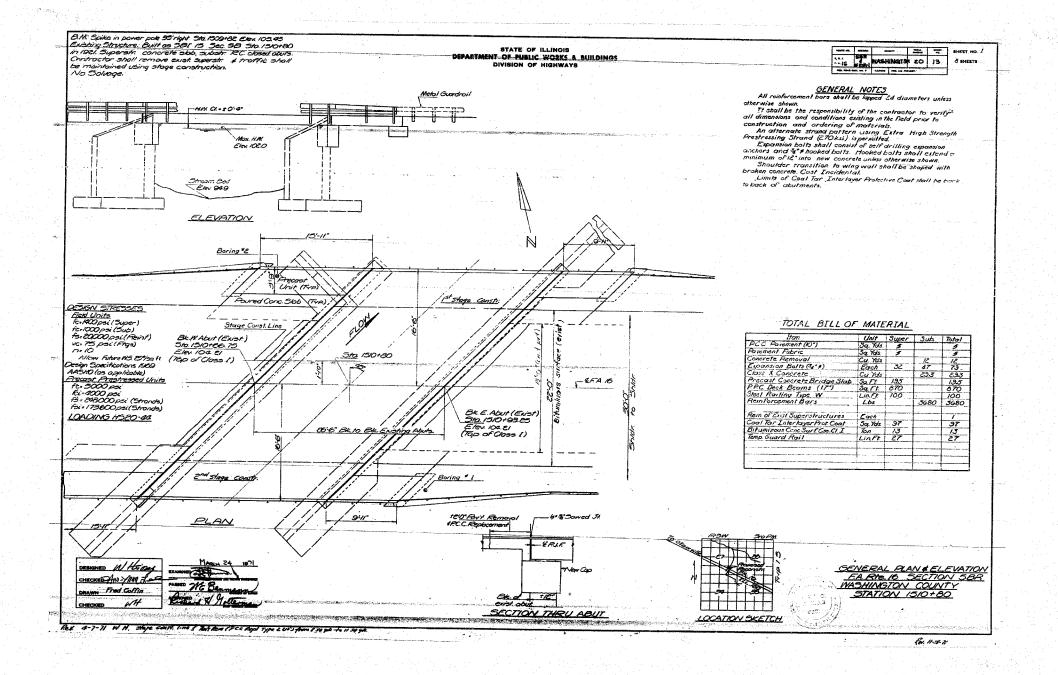
CHECKED Ray Ahanchi

DRAWN Gregory D. Farmer

CHECKED NRB/GRA



SOIL BORING LOGS
F.A.S. RTE. 1832 - SEC. 5BR-2
WASHINGTON COUNTY
STATION 1511+01.00
STRUCTURE NO. 095-0078

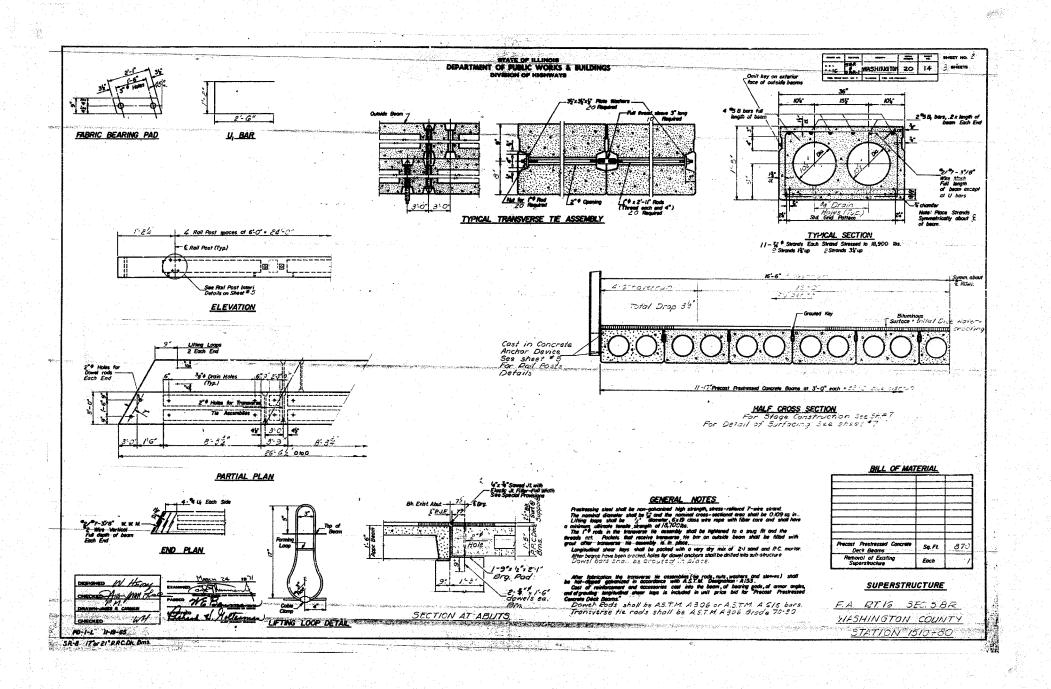


FOR INFORMATION

S.N. 095-0078

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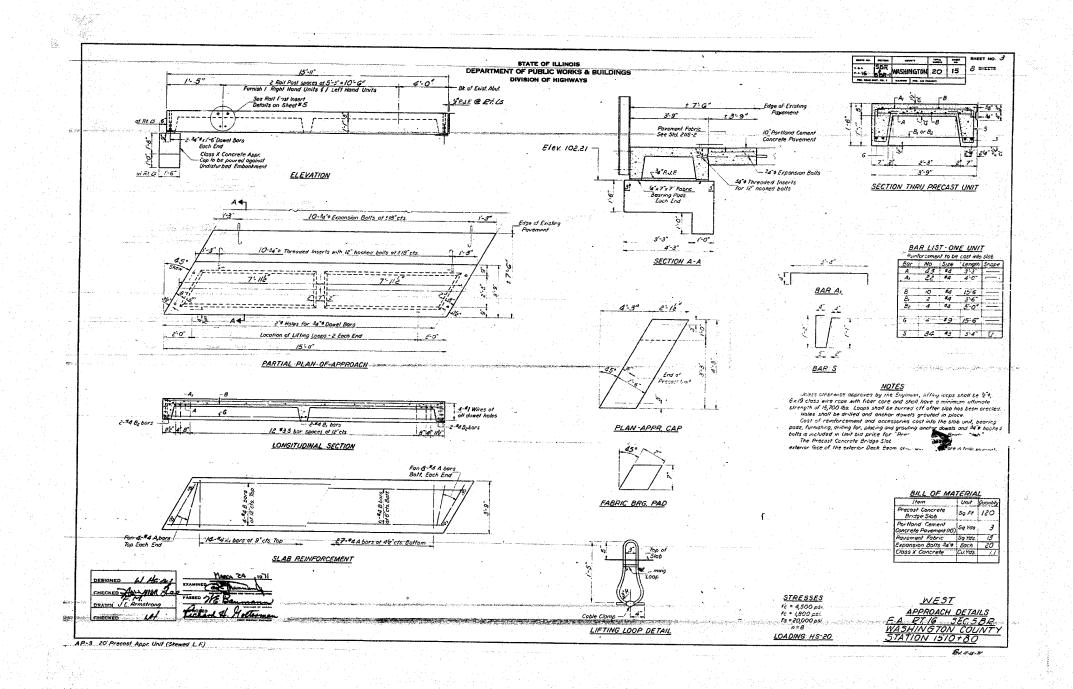


FOR INFORMATION ONLY

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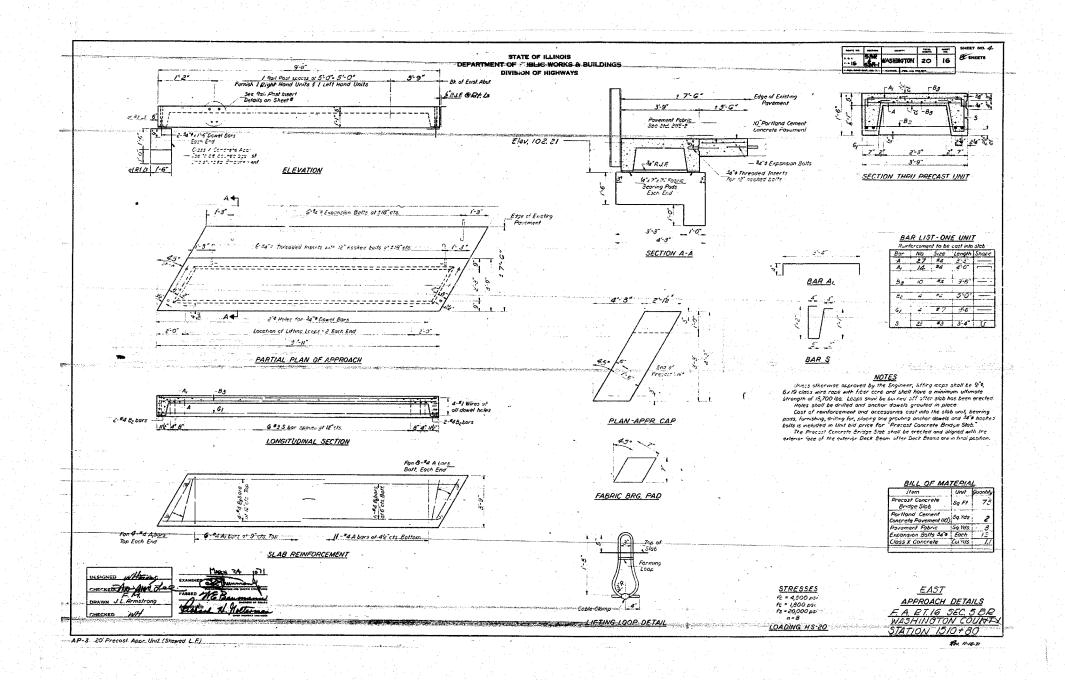
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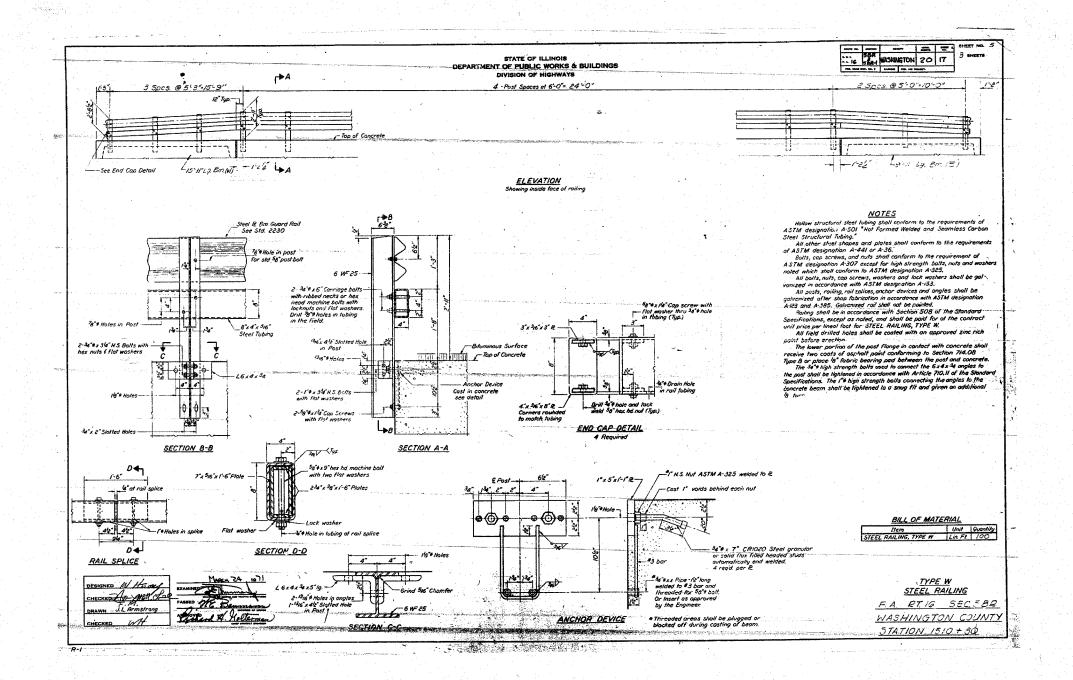
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		SECTION 5BR-2 WASHINGTON COUNTY					
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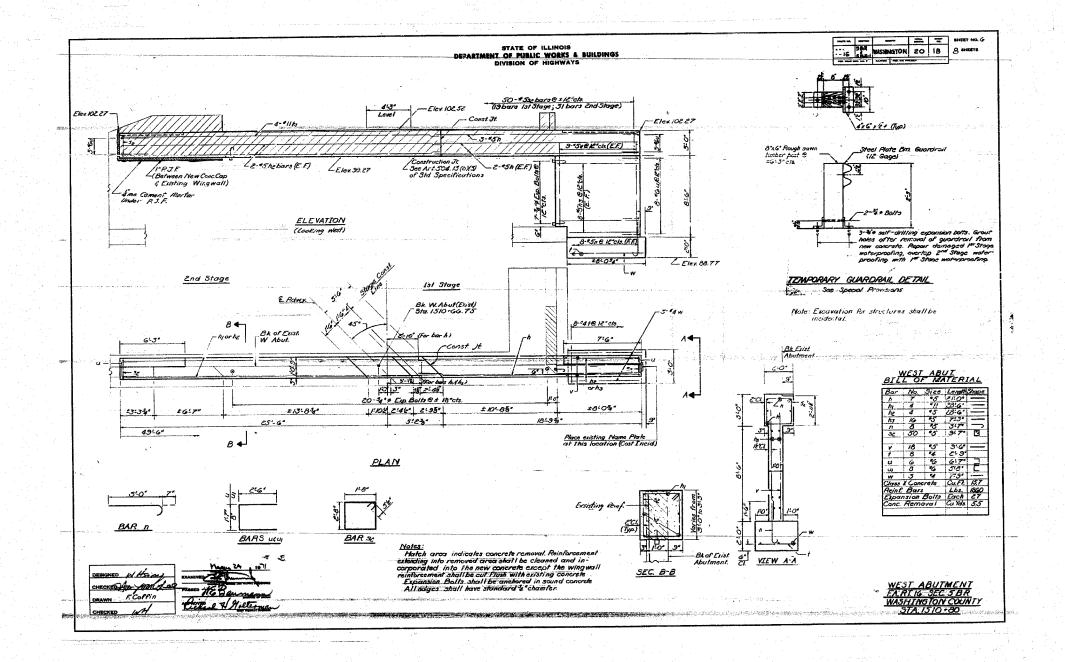
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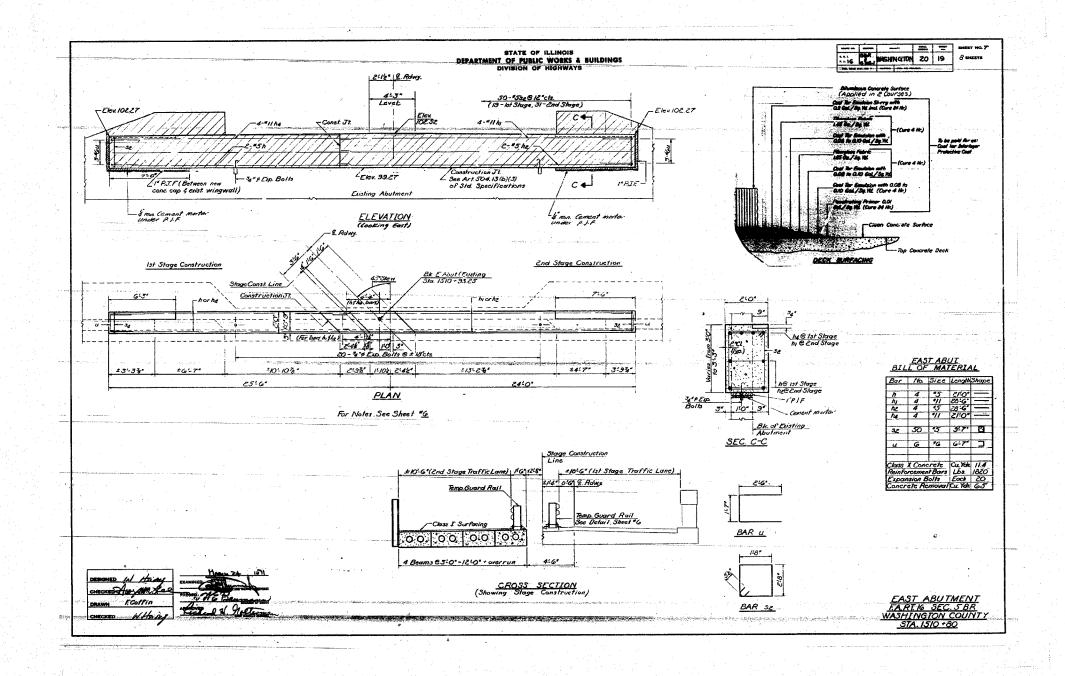
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		HORIZ.
		DATE CHECKED BY

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