COVER SHEET

GENERAL NOTES

SUMMARY OF QUANTITIES

TYPICAL SECTIONS

GENERAL SITE PLAN

RESURFACING DETAIL (BRIDGE APPROACH TAPER/BUTT JOINT)

STAGE CONSTRUCTION PLANS

WIDE LOAD SIGN LOCATION

BRIDGE PLANS 10-23

SCOUR MITIGATION PLANS

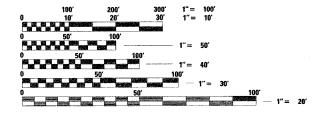
STANDARDS

COMMITMENTS

631031-05 631032-02 635011-01 701306-01

DESCRIPTION OF WORK

THE PROPOSED IMPROVEMENTS CONSIST OF SCOUR MITIGATION, REMOVAL OF THE EXISTING BRIDGE SUPERSTRUCTURE AND REPLACING WITH PRECAST, PRESTRESSED CONCRETE DECK BEAMS, BITUMINOUS CONRETE WEARING SURFACE AND OTHER APPURTENANT ITEMS OF WORK THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO SATISFACTORILY CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND PROVISIONS STATED HEREIN.



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

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

1-800-892-0123

CONTRACT NO. 68415

GROSS LENGTH: 136 FT = 0.03 MILES NET LENGTH: 136 FT = 0.03 MILES

FAP ROUTE 693

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

PROPOSED HIGHWAY PLANS

FAP ROUTE 693 (IL RTE 9) **SECTION** (119B-3)I PROJECT NO.F-0693 (057) **TAZEWELL COUNTY**

DECK BEAM REPLACEMENT

C-94-100-04

R3W BROADWAY RD TREMONT TOWLINE RD TOWLINE RD

QA/QC BITUMINOUS SUPERPAVE PROJECT

PROJECT BEGIN

STA. 504 + 51.87 LATITUDE 40°31'26" N LONGITUDE 89°27'49" W

S.N. 090-0061

PROJECT END STA 505 + 87.50

LATITUDE 40°31'25" N LONGITUDE 89°27'48" W

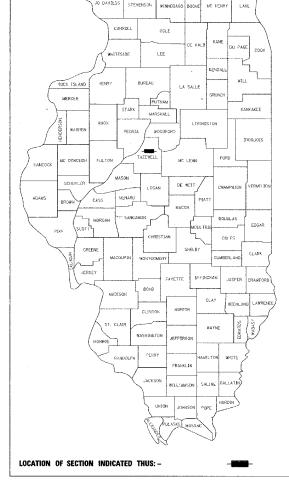
2004 ADT = 3600

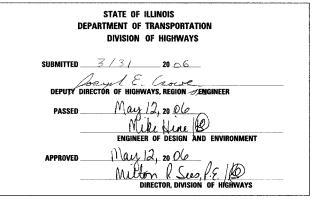
2024 ADT = 4500

BRIDGE OVER PRAIRIE CREEK STA. 504 + 88.50 TO STA. 505 + 51.50 SECTION TAZEWELL (119B-3))

CONTRACT NO. 68415 CATALOG NO. 032903-00D D-94-016-05

693





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

3-30-06 DATE EXPIRES 11-30-2007



THOUVENOT, WADE & MOERCHEN, INC.

GENERAL NOTES

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION, AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS, OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

ANY FACILITIES OR APPURIENANCES WHICH ARE THE PROPERTY OF ANY PUBLIC UTILITY LOCATED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE RELOCATED OR ADJUSTED BY THEIR RESPECTIVE OWNERS. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE OWNERS OF ANY SUCH FACILITY IN THEIR REMOVAL AND REARRANGE HIS OPERATIONS IN ORDER THAT THE UTILITY'S OPERATIONS AND THE CONSTRUCTION OF THIS PROJECT MAY PROGRESS IN A REASONABLE MANNER.

THE ENGINEER AND OWNER FURTHER DO NOT WARRANT THAT ALL UTILITIES HAVE BEEN TELUSTRATED ON THESE DOCUMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTACTING JULLIE FOR FIELD VERIFICATION OF ALL UTILITIES ON THE SITE PRIOR WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AN AUTHORIZED SURVEYOR OR AGENT, HAVE WITNESSED OR OTHERWISE REFERENCED THEIR

EVERY TREE SHALL BE SAVED IF POSSIBLE. THE ENGINEER IN THE FIELD WILL VERIFY AND MARK ALL TREES REQUIRED TO BE REMOVED. SHOULD THE ENGINEER'S DECISION INCREASE OR DECREASE THE QUANTITIES OF WORK TO BE PERFORMED FROM THE PLANS, THE CONTRACTOR SHALL ACCEPT PAYMENT AS STATED IN ARTICLE 104.03 OF THE STANDARD SPECIFICATIONS. TREES OUTSIDE THE LIMITS OF CONSTRUCTION SHALL NOT BE DISTURBED UNLESS DESIGNATED BY THE ENGINEER.

THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE AREA LOCATED WITHIN THE CONSTRUCTION LIMIT LINES, AS SHOWN PER PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

IT IS INTENDED THAT ANY CULVERTS DAMAGED BY OR REMOVED BY THE CONTRACTOR OTHER THAN THOSE NOTED ON THE PLANS TO BE REMOVED WILL HAVE TO BE REMOVED AND/OR REPLACED AT THE CONTRACTOR'S SOLE EXPENSE.

ALL MATERIALS SUCH AS FRAMES AND GRATES. AND STORM SEWER PIPE SCHEDULED FOR REMOVAL, THAT ARE CONSIDERED TO BE SUITABLE FOR FUTURE USE, SHALL BE SALVACED AND STOCKPILED AS DIRECTED BY THE ENGINEER. ALL OTHER MATERIALS SCHEDULED FOR REMOVAL BUT NOT SALVAGED, SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE.

ALL STORM SEWER AND CULVERT PIPE TO BE REMOVED WHICH THE ENGINEER DEEMS FIT FOR RE-USE SHALL BE SALVAGED IN ACCORDANCE WITH ARTICLES 501.02 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL OTHER STORM SEWER AND CULVERT PIPE SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03.

ALL TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED IN SUCH A MANNER SO AS NOT TO INTERFERE WITH THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THE THICKNESS OF THE BITUMINOUS MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR THE BASE COURSE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.

NO VIBRATORY ROLLER WILL BE ALLOWED.

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

- *ILLINOIS-AMERICAN WATER COMPANY
- *CHARTER COMMUNICATIONS
- *SBC COMMUNICATIONS
- *AMEREN CILCO/CIPS

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

11 SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ALLOW FARMERS AND RESIDENTS ACCESS TO FILLDS AND RESIDENCES DURING VARIOUS STAGES OF CONSTRUCTION IF ACCESS CANNOT BE ATTAINED BY OTHER ROADS.

UTITLIES - LOCATIONS/INFORMATION ON PLANS

UNLESS NOTED OTHERWISE, THE LOCATION OF EXISTING WATER MAINS, GAS MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED, SOME UTILITY LOCATIONS ARE SHOWN AS FUTURE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.

BUTT JOINT CUTTING TIME RESTRICTION

BUILT JOINTS SHALL NOT BE MILLED MORE THAN THREE (3) DAYS PRIOR TO PLACEMENT OF THE BITUMINOUS SURFACE COURSE.

NAME PLATE RELOCATION

NAME PLATES THAT WILL BE REMOVED AS A RESULT OF THIS WORK SHALL BE RELOCATED ON THE STEEL BRIDGE RAIL, TYPE SM AS DIRECTED BY THE ENGINEER. THE COST OF REMOVING AND REPLACING THE NAME PLATE(S), INCLUDING ALL NECESSARY FASTENERS, WILL NOT BE MEASURED OR PAID FOR SEPARATELY, BUT WILL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.

COMMITMENTS:

MONE

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE(S):	SURFACE	BINDER COURSE
	(1 1/2" LIFT)	(1 3/42" LIFT)
AC/PG	PG 64-22	PG 64-22
RAP % (MAX)	15%	15%
DESIGN AIR VOIDS	4.2% @ N=50	4.2% @ N-50
MIX COMPOSITION	IL 9.5 OR 12.5	II 9.5 OR 12.5
(GRADATION MIXTURE)	12 3.3 011 12.0	1E 3.3 311 12.3
FRICTION AGG	Mixture D	N.A.

PLAN QUANTITIES FOR BITUMINOUS CONCRETE SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN.

GENERAL NOTES - SCOUR MITIGATION

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE (INCLUDING HIGH WATER ELEVATION) HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALL FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

ALL INFORMATION SHOWN IN EACH STRUCTURE'S WATERWAY INFORMATION TABLE WAS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIVERLING THE WATER FLOW FROM THE CONSTRUCTION AREA OF EACH SITE, THE CONTRACTOR MAY USE EITHER METHOD OF DEWATERING AS DESCRIBED IN THE DEWATERING SPECIAL PROVISION

DURING SITE PREPARATION, AREAS BELOW THE FINAL GRADE SHALL BE BROUGHT TO GRADE BY PLACING COMPACTED LAYERS OF GRANULAR SUBBASE MATERIAL, TYPE C: AREAS OF SOFT OR OTHERWISE UNSUITABLE SUBGRADE SOILS SHALL BE EXCAVATED AND REPLACED WITH COMPACTED LAYERS OF GRANULAR SUBBASE MATERIALS, TYPE C. REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIALS SHALL BE AS DIRECTED BY THE ENGINEER AND WILL BE PAID FOR IN ACCORDANCE TO ARTICLE 109,04 (FORCE ACCOUNT BASIS) OF THE STANDARD SPECIFICATIONS, AN ASSUMED QUANTITY FOR GRANTOR SUBBASE MATERIALS, TYPE C IS INCLUDED AS PART OF EACH STRUCTURE'S MITIGATION DETAILS.

LAYOUT OF SCOUR PROTECTION SYSTEMS MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.

ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE GRADED, FERTILIZED, SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER, SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK.

IT IS ANTICIATED THAT THE MAJORITY OF THE SCOUR WORK WILL NOT REQUIRE HIGHWAY TRAFFIC LANE CLOSURES, WORK WHICH WOULD REQUIRE EXTENDED LANE CLOSURES SHALL BE DONE WHILE 701301 BIS IN USE, OTHERWISE THE CONTRACTOR IS RESTRICTED TO ONE I AND

DAYTIME ONLY CLOSURE IN ACCORDANCE TO IDOT STANDARDS 701301.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
693	(1198-3)I	TAZEWELL	34	2
STA.		TO STA.		

GABION ANCHOR STAKE

LAYOUT SHOWN ON PLAN SHEETS IS FOR INFORMATION AND ESTIMATION PURPOSES ONLY. ACTUAL LAYOUT SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE ENGINEER AND SHALL CONFORM TO THE PROCEDURES STATED IN THE SPECIAL PROVISIONS.

SUGGESTED SEQUENCE OF CONSTRUCTION

- 1. INSTALL DEWATERING SYSTEM AND DIVERT WATER FLOW FROM THE CONSTRUCTION AREA.
- 2. EXCAVATE TO THE LINES, GRADES, CONTOURS, AND DIMENSIONS SHOWN. THE PREPARED AREA SHALL BE INSPECTED AND APPROVED BY THE ENGINEER BEFORE FURTHER WORK CAN TAKE PLACE.
- 3. INSTALL FILTER FABRIC ON THE GRADED SURFACES AS SHOWN ON THE DRAWINGS.
- 4. INSTALL SITE SPECIFIC SCOUR COUNTERMEASURES, SEE DETAIL SHEETS FOR SPECIFIC INSTALLATION PROCEDURES.
- 5. REMOVE DEWATERING SYSTEM. GRADE AND SEED GROUND DISTURBED DURING CONSTRUCTION.

DISPOSITION OF UTILITIES

HITHITY Underground Gas

COMPANY AmerenCILCO LOCATION North Side of Creek ACTION Use Caution

ILLINOIS DEPARTMENT OF TRANSPORTATION DATE GENERAL NOTES F.A.P. RTE 693 SECTION (119B-3)I TAZEWELL COUNTY SCALE: NONE DRAWN BY: KBF CHECKED BY: AJE

PLOT DATE: *DATE-TIME*

SUMMARY OF QUANTITIES

PAP	SECTION	COUNTY	ning. Bases	73942 45
693	(1198-31)	TAZEWELL	34	3
AT2		TO STA.		
EXISTI	NG CONDITIO	NS:		
CONTRAC	T NO. 68415			

٢		A			CONSTRUCTION TYPE CODE					
-		SUMMARY OF QUANTITIES		TOTAL	FED 80%	SFTY-3N				
	CODE NO	ITEM	UNIT		STATE 20%					
	20200500 40600100 35600400 40600300	EARTH EXCAVATION (WIDENING) BITUMINOUS MATERIALS (PRIME COAT) BITUMINOUS CONCRETE BASECOMESE WIDENING, 9" AGGREGATE (PRIME COAT)	CAYD GALLON SQ YD TON	50 35 9 4	35 196 1				-	
	40600980	BITUMINOUS CONCRETE REMOVAL - BUTT JOINT	SO YD	160	160					
	42001400	BRIDGE APPROACH PAVEMENT (SPECIAL)	SO YD	164	164					
	42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SO YD	35	35					
	44000100	PAVEMENT REMOVAL	SO YD	92	92					
١	44000700	APPROACH SLAB REMOVAL	SQ YD	107	107					
	48101200	AGGREGATE SHOULDERS, TYPE B	TON	3	3				. ,	
	50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1	1 .					
	50102400	CONCRETE REMOVAL	CU YD	2. 4	2. 4					
	50300225 x0325305 x0325294	CONCRETE STRUCTURES STRUCTURAL REPAIR OF CONCRETE (DEPTH=/K5") PREFORMED JOINT STRIP SEAL REMOVAL OF EXESTING PRECAST UNITS	CU YD SQ FT FOOT SQ FT	3.4 45.1 33 299	3.4 45.1 33 299			. *		
	X0324744 50400105	PRECAST CONCRETE BRIDGE SLAB	SQ FT	299	299					
	50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	2,066	2, 066					
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	450	450					
	50901005	STEEL BRIDGE RAIL. TYPE SM	F00T	207	207					
	51500100	NAME PLATES	EACH	1	i					
	58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	230	230		-			
	58300100	PC MORTAR FAIRING COURSE	FOOT	626	626					
*	63000000	STEEL PLATE BRIDGE GUARD RAIL, TYPE A	FOOT	100	100					
*	63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4					
光	63200305	STEEL PLATE BEAM GUARD RAIL REMOVAL	F00T	125	125					
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4					
	67100100	MOBILIZATION	L SUM	1	1					
	70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1					
	70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1					
	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1					
	70106700	TEMPORARY RUMBLE STRIP	EACH	12	12					
	70300100	SHORT-TERM PAVEMENT MARKING	F00T	144	144					
	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3, 107	3, 107					
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1.132	1, 132					
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	329	329					
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	329	329					
*	78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	1,689	1,689					
*	78100100	RAISED REFECTIVE PAVEMENT MARKERS	EACH	10	10					
*	78200410	GUARDRAIL MARKERS. TYPE A	EACH	4	4					
*	78200510	BARRIER WALL MARKERS, TYPE A	EACH	4	4					
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	473	473					
	L	1							***************************************	

						CONTRACT N			
	CUMMARY OF QUANTITIES				CONS	RUCTION	TYPE COL	E	
CODE NO	SUMMARY OF QUANTITIES	UNIT	TOTAL QUANTITIES	FFD 80%	SFTY-3N FED 80% STATE 20%				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	10	10					
X4066424	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAYE, MIX "D". N50	TON	53	53					
X4066614	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50	TON	21	21					
X7200200	WIDE LOAD SIGNING	L SUM	1	1					
Z0002600	BAR SPLICERS	EACH	8	8					
Z0030255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2		2				
Z0030320	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 2	EACH	2		2				
		<u> </u>							

				CONS	TRUCTION TY	PE COD	E	
	SUMMARY OF QUANTITIES		TOTAL	X080-2A FED 80X				
CODE NO	ITEM	UNIT	OUANTITIES	STATEZOX				
20300100	CHANNEL EXCAVATION	CU YD	416	416				
25000300	SEEDING, CLASS 3	ACRES	0.03	0.03				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	3	3 _				
25000500	PHOSPHOROUS FERTILIZER NUTRIENT	POUND	3	. 3				
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	3	3				
25100630	EROSION CONTROL BLANKET	SO YD	138	138				
28100109	STONE RIPRAP. CLASS A5	TON	129	129				
28200200	FILTER FABRIC	SQ YD	712	712				
28400100	GABIONS	CU YD	167	167				
28401000	SLOPE MATTRESS	SQ YD	307	307				
31101 9 00	SUB-BASE GRANULAR MATERIAL TYPE C	TON	171	171				
63300205	REMOVE AND REINSTALL EXIST. STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	50	50				
x0301852	DEWATERING STRUCTURE NO. 1	EACH	1	1				
x0322587	CONSTRUCTION ACCESS	EACH	1	1				
x0323655	GABION ANCHOR STAKES	EACH	56	56				

* SPECIALTY ITEM

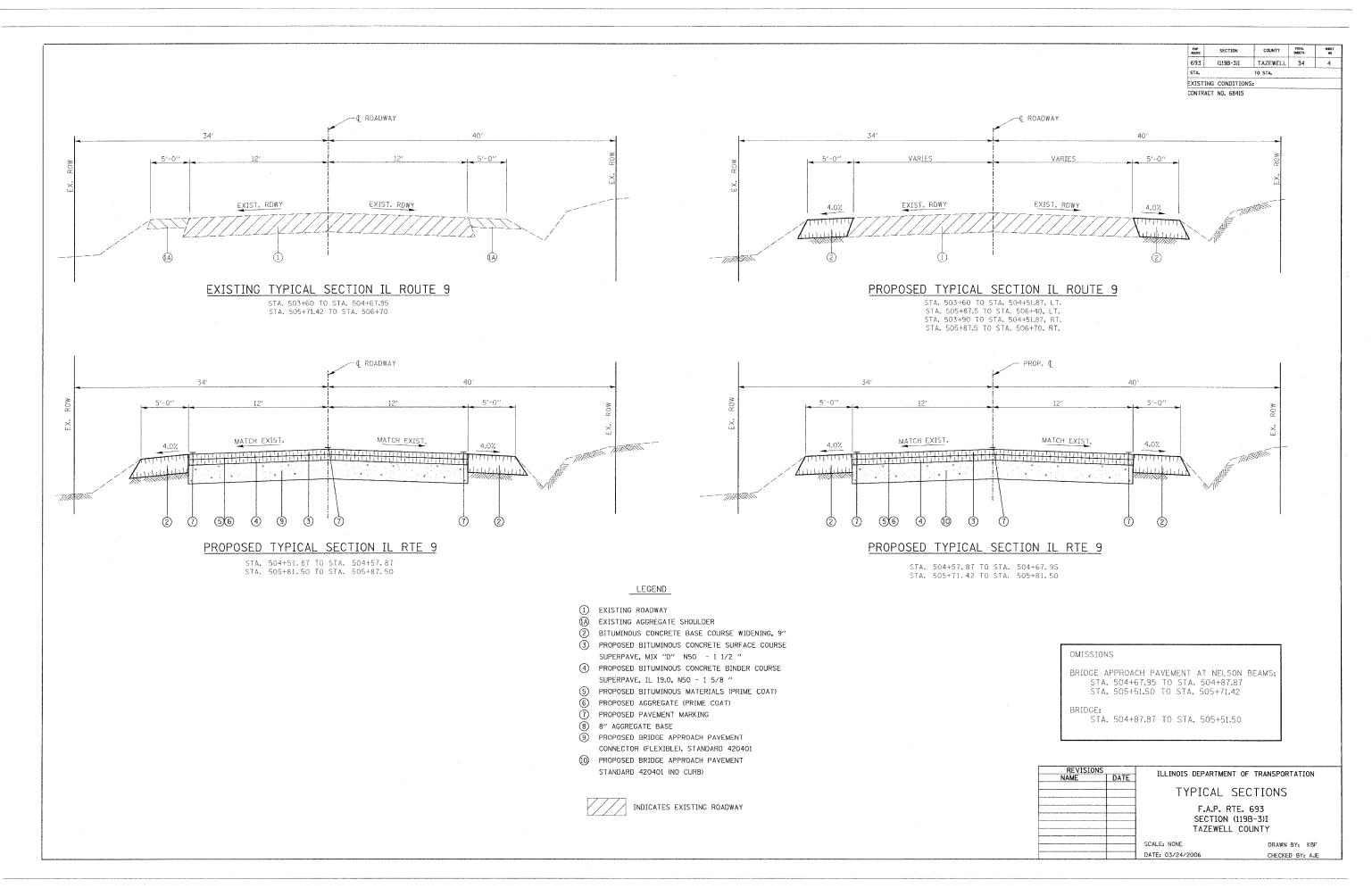
REVISIONS
NAME DATE
SUMMARY OF QUANTITIES

F.A.P. RTE. 693
SECTION (1198-3)I
TAZEWELL COUNTY

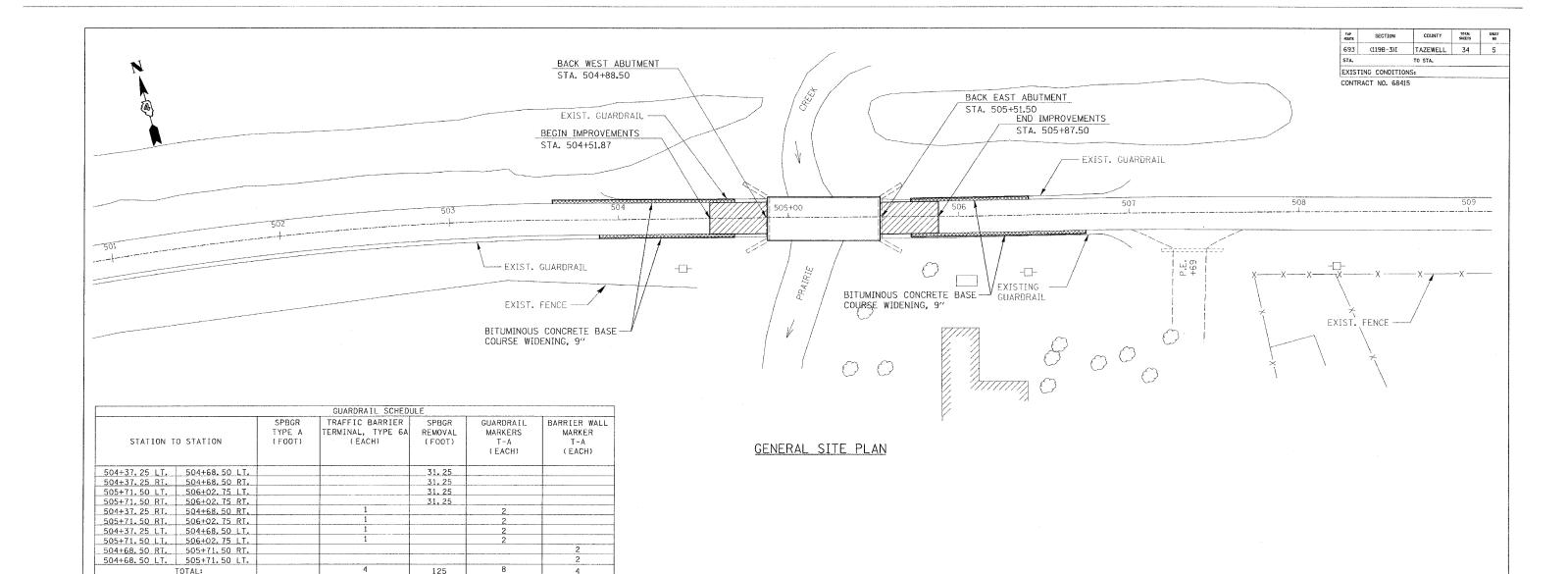
SCALE: NONE DRAWN BY: KBF

DATE: 03/24/2006

CHECKED BY: AJE



___..\pInsheetsPrairieCreek_add1.dgn_4/27/2006 7:54:56 AM_



	TOTAL:		4	125	8	4	
			PAVIN	G SCHEDULE			
STATION	TO STATION	BITUMINOUS MATERIALS PRIME COAT (GALLON)	AGGREGATE PRIME COAT (TON)	BITUMINOUS SURFACE REMOVA (SQ. YD.)	AGGREGATE L SHOULDERS (TON)	BITUMINOUS CONCRETE SURFACE COURSE SUPERPAVE MIX D (TON	BINDER COURSE SUPERPAVE N50 (TON)
504+51.87	504+88,00	17.5	0.5		1.5	10	10.5
505+52.00	505+87.50	17.5	0.5		1.5	10	10.5
504+87.87	505+51.50					33	
504+51.87	505+87.50			92			
TO	TAL:	35	1	92	3	53	21

31.25 31. 25 31, 25

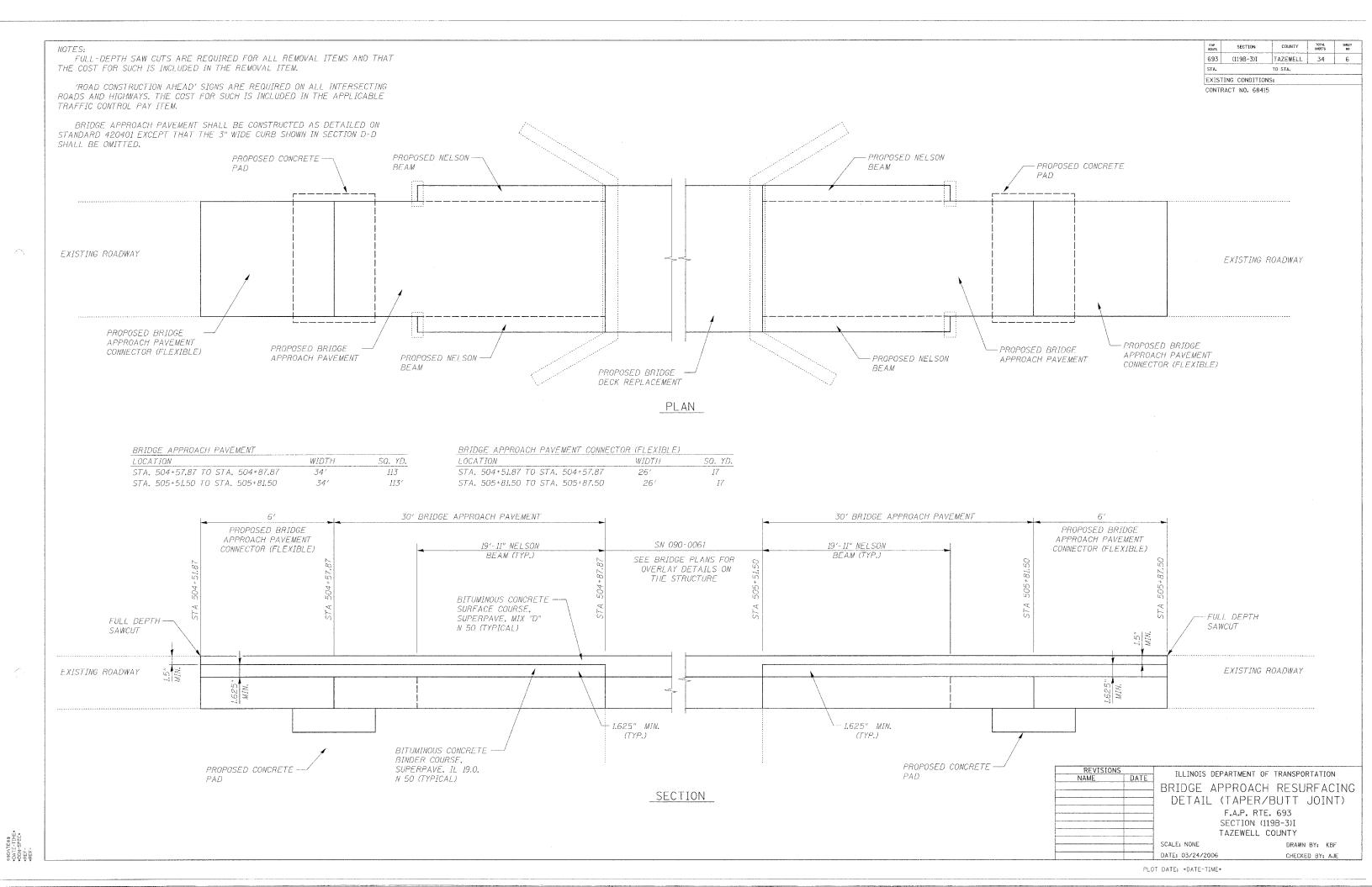
	PAVEM	ENT MARKING SCH	EDULE			
STATION TO STATION	SHORT TERM PAVEMENT MARKINGS (FOOT)	TEMPORARY PAVEMENT MARKING LINE 4" (FT.)	WORK ZONE PAVEMENT MARKING REMOVAL (SQ. FT.)	MARKING	AVEMENT LINE 4" OOT) YELLOW	PAVEMENT MARKING REMOVAL (SQ. FT.)
501+51.00 ¢ TO 508+60.00 ¢	144		48		1418	473
501+51.00 RT. TO 508+60.00 RT.			236.3			
501+51.00 LT. TO 508+60.00 LT.			236. 3			
501+51.00 RT. TO 508+60.00 RT. (STAGE 1 & 2)		1418	236. 3			
501+51.00 LT. TO 508+60.00 LT. (STAGE 1 & 2)		1418	236. 3			
504+51.87 RT. TO 505+87.50 RT.		135.6	45. 2	135.6		
504+51.87 LT. TO 505+87.50 LT.		135.6	45.2	135.6		
STOP BAR (2 LOCATIONS)			48	tomorio en estado de la constante de la consta		
SUB TOTAL:		3107	1132	271.2	1418	
TOTAL:	144	3107	1132	16	89	473

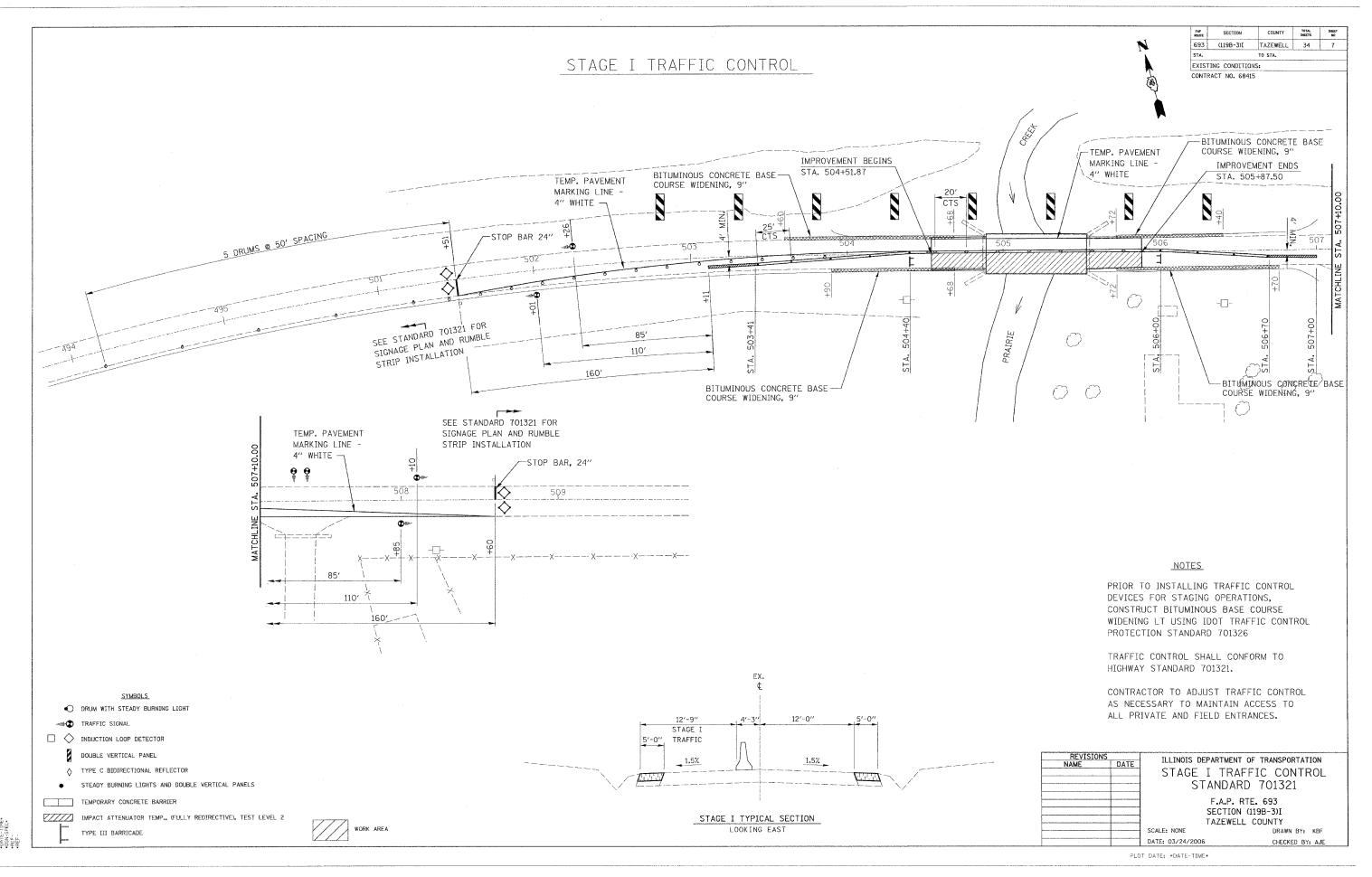
		TO STATION		EXCAVATION (CU YD)
503+60.00,	LT.	504+67.95,	LT.	15
505+71.42,	LT.	506+40.00,	LT.	10
503+90.00,	RT.	504+67.95,	RT.	11
505+71.42,	RT.	506+70.00,	RT.	14
	TO	TAI:		50

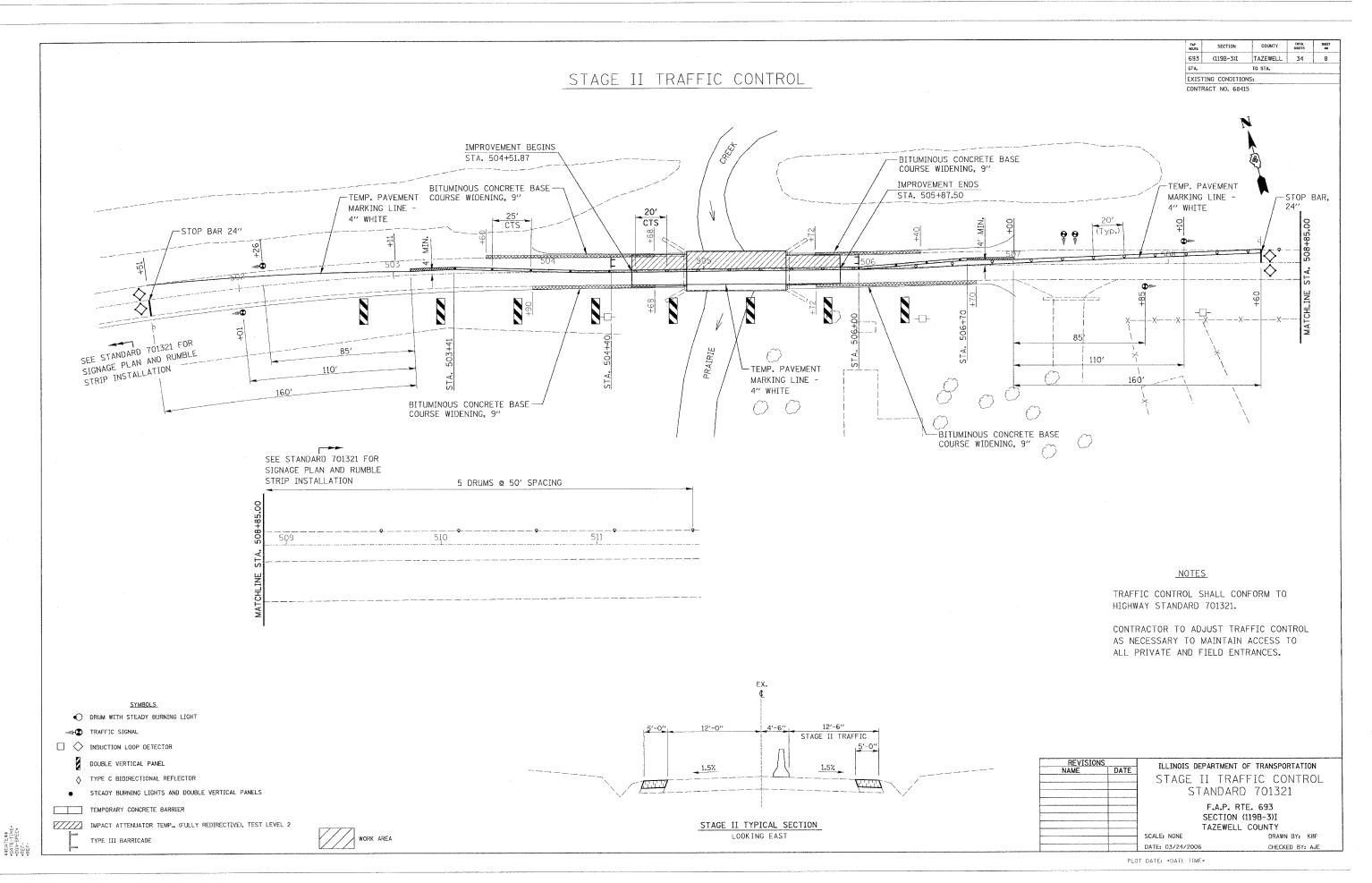
BITUM	INOU	IS BASE COURS	E WID	ENING, 9"
STAT	ION	TO STATION		WIDENING (SQ YD)
503+60.00,	LT.	504+67.95,	LT.	60
505+71.42,	LT.	506+40.00,	LT.	38
503+90.00,	RT.	504+67.95,	RT.	43
505+71.42,	RT.	506+70.00,	RT.	55
			narros va monasarra.	
	TO	TAL:		196

REVISIONS		ILLINOIS DEPARTMENT OF TR	ANCDODTATION
NAME	DATE	ILLINOIS DEPARTMENT OF TE	MOLIALION
		GENERAL SITE	PLAN
		AND SCHEDUL	.ES
		F.A.P. RTE. 69:	-
		SECTION (119B-3)I
		TAZEWELL COUN	ΓY
		SCALE: NONE	DRAWN BY: KBF
		DATE: 03/24/2006	CHECKED BY: AJE

PLOT DATE: *DATE-TIME*

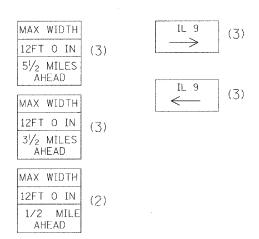


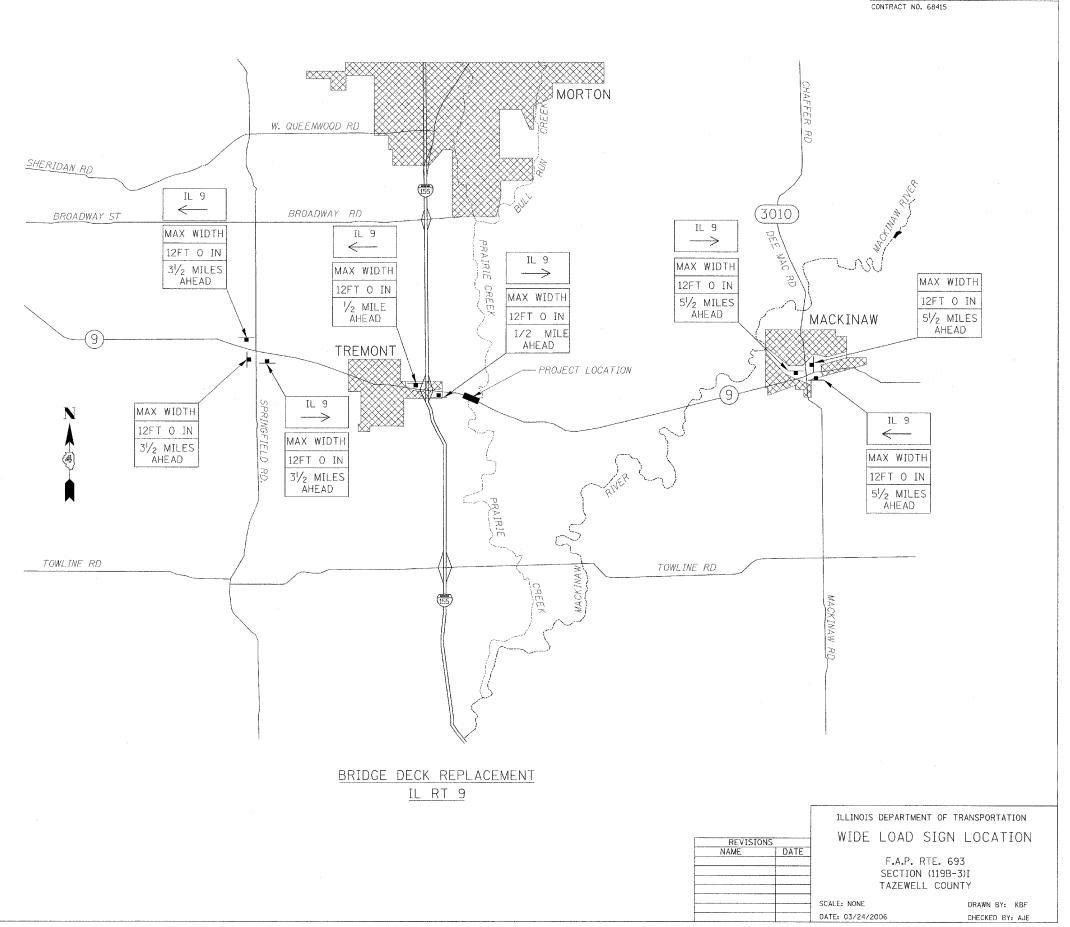




- 1. All signs required will be supplied to the contractor by I.D.O.T.
- 2. The contractor shall furnish the posts AND erect signs at the locations shown on this sheet, as directed by the R.E./R.T.
 The posts shall remain the property of the contractor.
- 3. The contractor shall give Illinois Department of Transportation, Bureau of Operations two weeks notice for signs. The contractor shall pick up the signs at the T.M. building in Fairview Hgts., AND return them upon completion of the contract.
- The above noted work shall be paid for at the contract unit price, Lump Sum, for Wide Load Signing AND no other compensation will be allowed.
- 5. Sign spacing will be 400' or to fit field conditions.
- 6. The height to the bottom of the lowest sign shall not be less than 6%.

SIGNS REQUIRED





N-9FE2-

PLOT DATE: *DATE-TIME*

SECTION

(119B-3)I

EXISTING CONDITIONS:

TAZEWELL

TO STA.

693

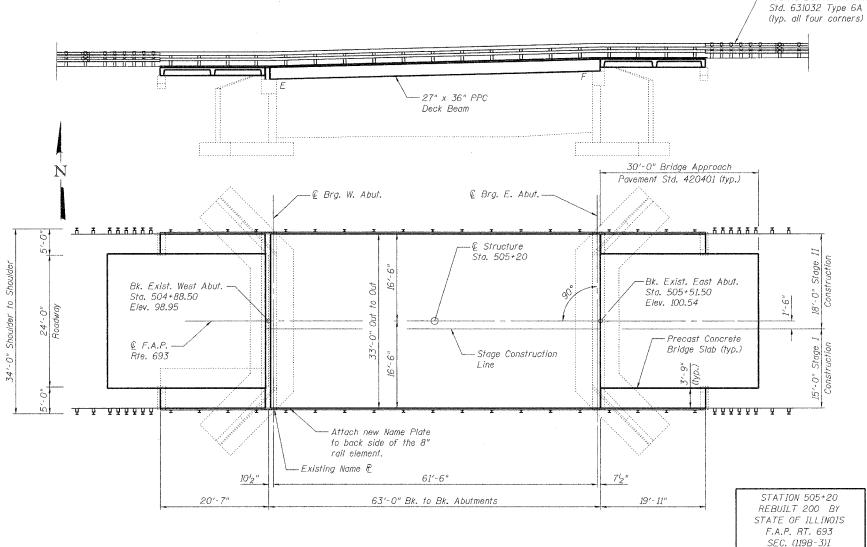
STA.

Bench Mark: Brass Plate on Southeast Wingwall Elev. 100.00

Existing Structure: S.N. 090-0061 was originally built in 1928 and rebuilt in 1975 as S.B.I. RTE 164, Section 119-BR-3 at Sta. 505+20. The structure consists of simple span PPC-deck beams on closed abutments on pile supported footings. The bk. to bk. abutment length is 63'-0" and the out to out bridge width is 33'-0". The existing superstructure is to be removed and replaced. Staged construction shall be used during construction.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Traffic Barrier Terminal



Index of Sheets

- Plan and Elevation
- 2. Stage Construction
- 3. Temporary Concrete Barrier and Stage Construction Details
- 4. Superstructure
- 5. Precast Concrete Bridge Slab
- 6. Superstructure Details
- Type SM Steel Bridge Rail Side Mounted 8. Bridge Rail Details
- 9. Preformed Joint Strip Seal
- 10. Concrete Removal
- 11. West Abutment
- 12. East Abutment
- 13. Substructure Details
- 14. Bar Splicer Assembly Details

DESIGNED	BWP	THOUVENOT, WADE &
CHECKED	ALN	MOERCHEN, INC.
DRAWN	BWP	CORPORATE DEFICE 4940 OLD COLLINSVILLE RD, SWANSEA, ILLINOIS 62226
CHECKED	KPC	TEL (618) 624-4488 FAX (618) 624-6688 E-MAIL: corpetwm-inc.com

LOADING HS20-44

No Allowance for Future Wearing Surface DESIGN SPECIFICATIONS

DESIGN STRESSES

FIELD UNITS

 $f_c' = 3.500 \text{ psi}$

fy = 60,000 psi (reinforcement)

PRECAST PRESTRESSED UNITS

f'c = 5,000 psi

f'ci = 4,000 psi

 $f'_s = 270,000 \text{ psi } (\frac{1}{2}\text{"} \phi \text{ Low Relaxation Strands})$ $f'_{si} = 201,960 \text{ psi } (\frac{1}{2}" \phi \text{ Low Relaxation Strands})$

PRECAST CONCRETE BRIDGE SLAB UNITS

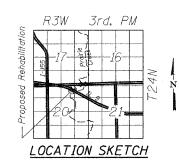
 $f_{c}' = 4,500 \ psi$

fy = 60,000 psi (reinforcement)

SEC. (119B-3)I LOADING HS-20 STR. NO. 090-0061

NAME PLATE See Std. 515001

Existing Name Plate shall be cleaned and relocated adjacent to new Name Plate, Cost included with Name Plates,





SHEET NO. ROUTE NO. SECTION COUNTY TOTAL SHEET NO. 1 F.A.P. (119B-3)1 14 SHEETS TAZEWELL 34 10 FEO. ROAD DIST, NO. 7 ILLUNDIS FEO. AND PROJECT

Contract # 68415

GENERAL NOTES

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

The top surface of the beams shall be finished according to Article 504.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of 4".

All construction joints shall be bonded.

The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A 780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manufacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to the exterior face and 9" in on the underside of the fascia beams. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.

The minimum thickness of the Bituminous overlay shall be 2" and varies as required to adjust for the new profile grade and beam camber.

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

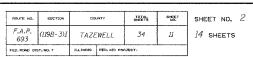
If the contractor's procedure for existing beam removal or placement of new beams involves placement of cranes or other heavy equipment on new beams, a detailed procedure shall be submitted to the Engineer for approval, The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the new beams. To distribute load to multiple beams and protect the concrete, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams. Prior to placement of the timber mats the following shall be done; placement and tightening of transverse tie assemblies, grouting and curing the dowel rods 24 hours minimum and grouting and curing the shear keys. A temporary means of lateral restraint will be required for fascia beams at expansion ends of beams to prevent movement of the beams.

TOTAL BILL OF MATERIAL

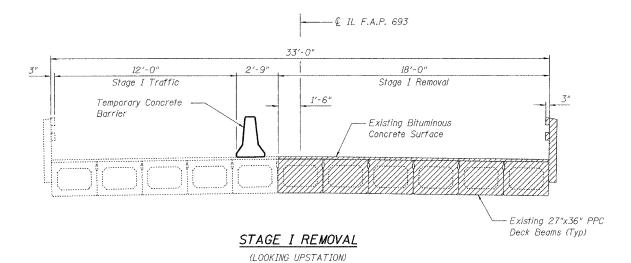
ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu. Yd.		2.4	2.4
Preformed Joint Strip Seal	Foot	33		33
Concrete Structures	Cu. Yd.		3,4	3.4
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	45.1		45.1
Precast Concrete Bridge Slab	Sq. Ft.	299		299
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	2066		2066
Reinforcement Bars, Epoxy Coated	Pound		450	450
Steel Bridge Rail, Type SM	Foot	207		207
Name Plates	Each	1		1
Waterproofing Membrane System	Sq. Yd.	230		230
PC Mortar Fairing Course	Foot	626		626
Bituminous Concrete Surface Course, Superpave, Mix "D", N50	Ton	33.1		33.1
Bar Splicers	Each		8	8
Removal of Existing Precast Unit	Sq. Ft.	299		299

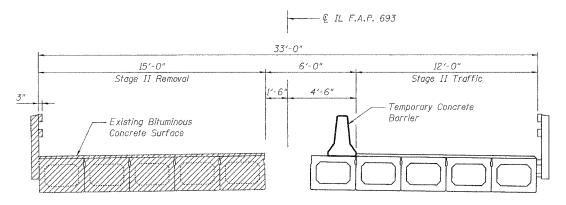
PLAN AND ELEVATION ILLINOIS ROUTE 9 OVER PRAIRIE CREEK F.A.P. ROUTE 693 SECTION (119B-3)I TAZEWELL COUNTY SN 090-0061

Indicates Removal of Existing Superstructures



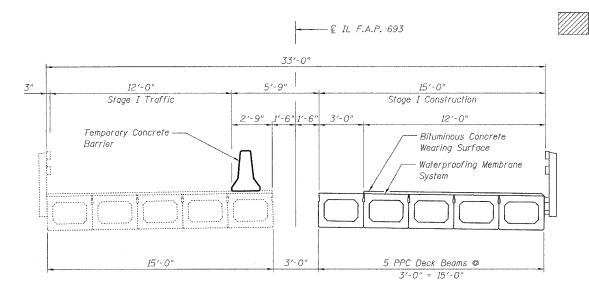
Contract # 68415

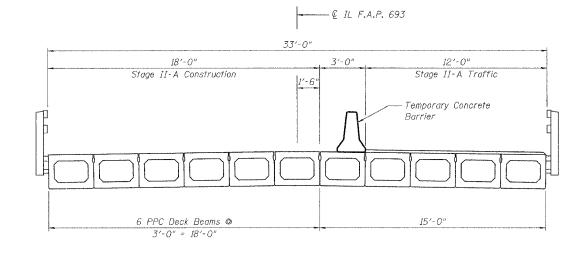




STAGE II REMOVAL

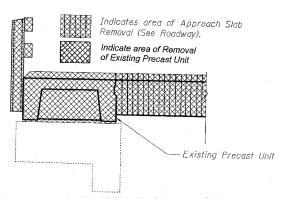
(LOOKING UPSTATION)





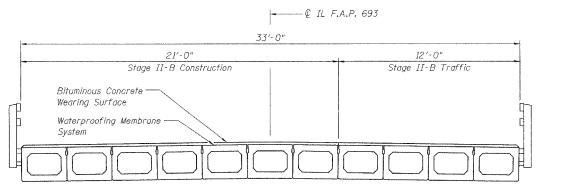
STAGE I CONSTRUCTION

(LOOKING UPSTATION)



STAGE II-A CONSTRUCTION

(LOOKING UPSTATION)



Notes :

For details of Temporary Concrete Barrier and limits of Waterproofing Membrane System, see Sheet 3 of 14.

STAGE CONSTRUCTION

ILLINOIS ROUTE 9 OVER

PRAIRIE CREEK

F.A.P. ROUTE 693 SECTION (119B-3)I

TAZEWELL COUNTY

SN 090-0061

TYPICAL APPROACH REMOVAL SECTION

STAGE II-B CONSTRUCTION

(LOOKING UPSTATION)

DESIGNED BWP

CHECKED ALN

DRAWN BWP

CHECKED KPC

CHECKED KPC

THOUVENOT,
WADE &
MORRCHEN, INC.
BOOKERS & SOMETHOS & RAMCOS

COMPROSES & SOMETHOS & RAMCOS

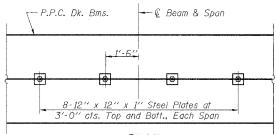
SOMETHOS & COMPROSES & COMPRO

ADUTE NO. ASCRIDS COLARTY SIGNETS SHEET NO. 3

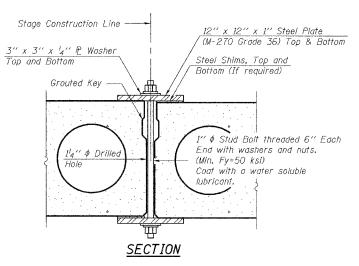
F.A.P. (1198-3)1 TAZEWELL 34 12 14 SHEETS

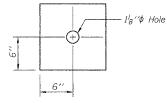
FED. RODG (2131, NO. 7 13.1.110(18) FED. RIO PROJECT-

Contract #68415



PLAN



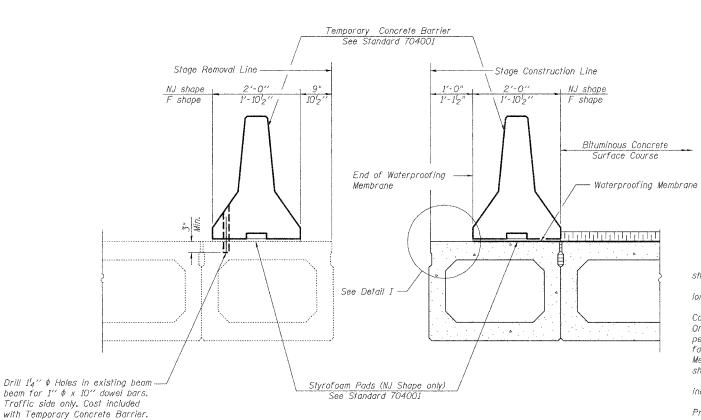


CLAMPING PLATE

SHEAR KEY CLAMPING DETAILS AT STAGE CONST. JT.

See Special Provisions for Stage Construction of Precast Prestressed Concrete Deck Beams. Cost included with Precast Prestressed Concrete Deck Beams (27" Depth). See Stage Construction Details for traffic lanes.

TEMPORARY CONCRETE BARRIER AND STAGE CONSTRUCTION DETAILS ILLINOIS ROUTE 9 OVER PRAIRIE CREEK F.A.P. ROUTE 693 SECTION (119B-3)I TAZEWELL COUNTY SN 090-0061



NOTES

The 1'' \$\phi\$ high strength bolts used to connect the wood blocks shall be tightened to a snug fit without crushing the wood block. The wing type threaded insert assembly shall be spaced 6'-0" longitudinally.

The Waterproofing Membrane shall extend under the Temporary Concrete Barrier without the asphalt sand seal protection layer. Once the Temporary Concrete Barrier has been removed, and the penetrating primer, coal tar emulsion, coal tar emulsion and fiberglass fabric, and coal tar emulsion slurry layers of the Waterproofing Membrane is lapped 6", the asphalt sand seal protection layer shall be applied according to Article 581 of the Standard Specifications.

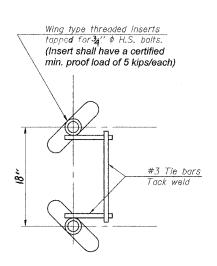
The cost for H.S. botts, flat headed washers, and wood block is included with Temporary Concrete Barrier.

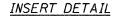
The cost for wing type threaded inserts is included with Precast Prestressed Concrete Deck Beams (27" Depth).

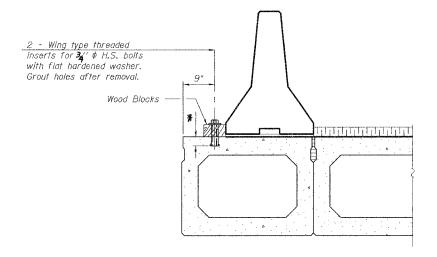
EXISTING PPC DECK BEAMS

NEW PPC DECK BEAMS

SECTIONS THRU PPC DECK BEAMS





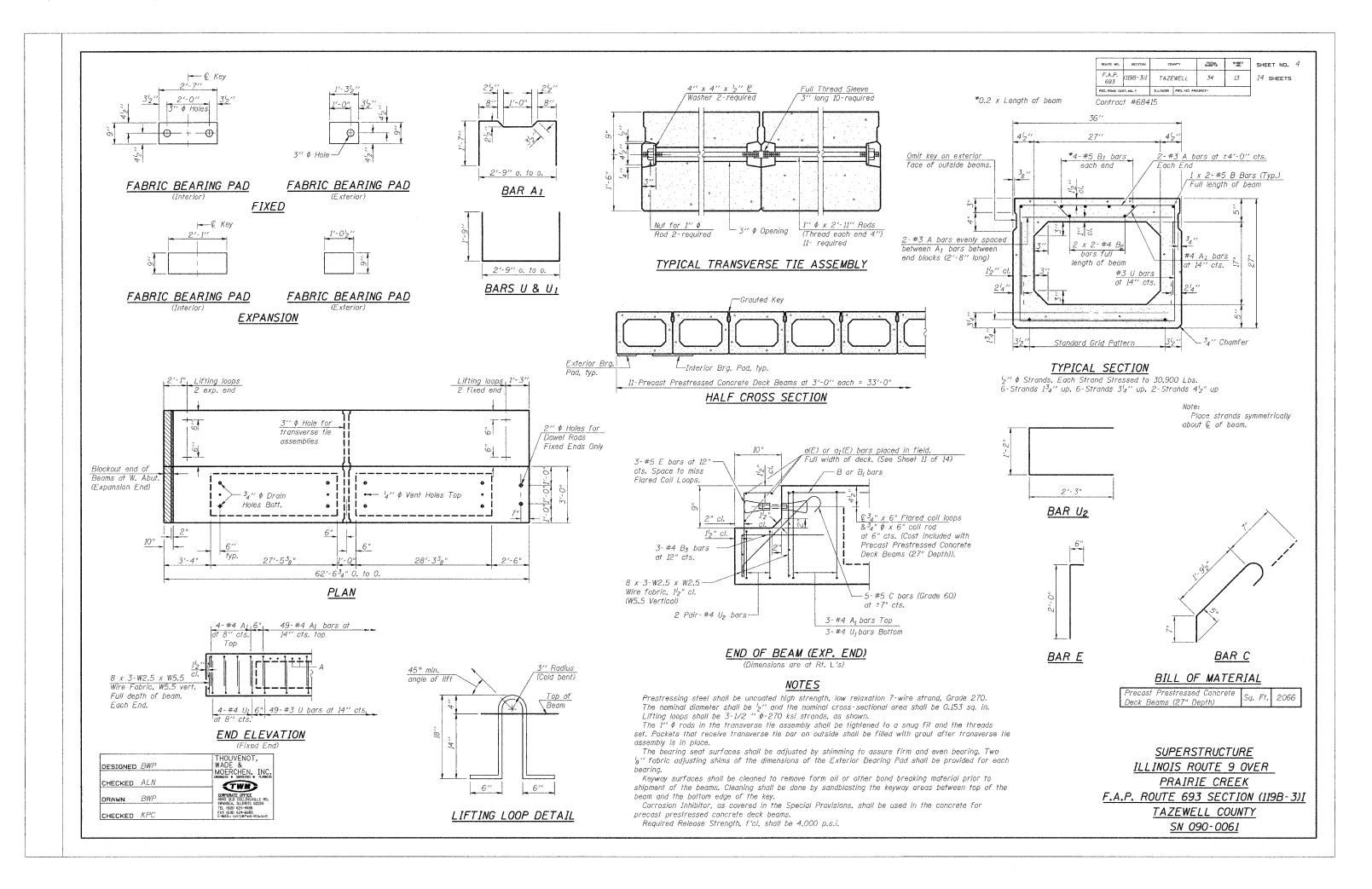


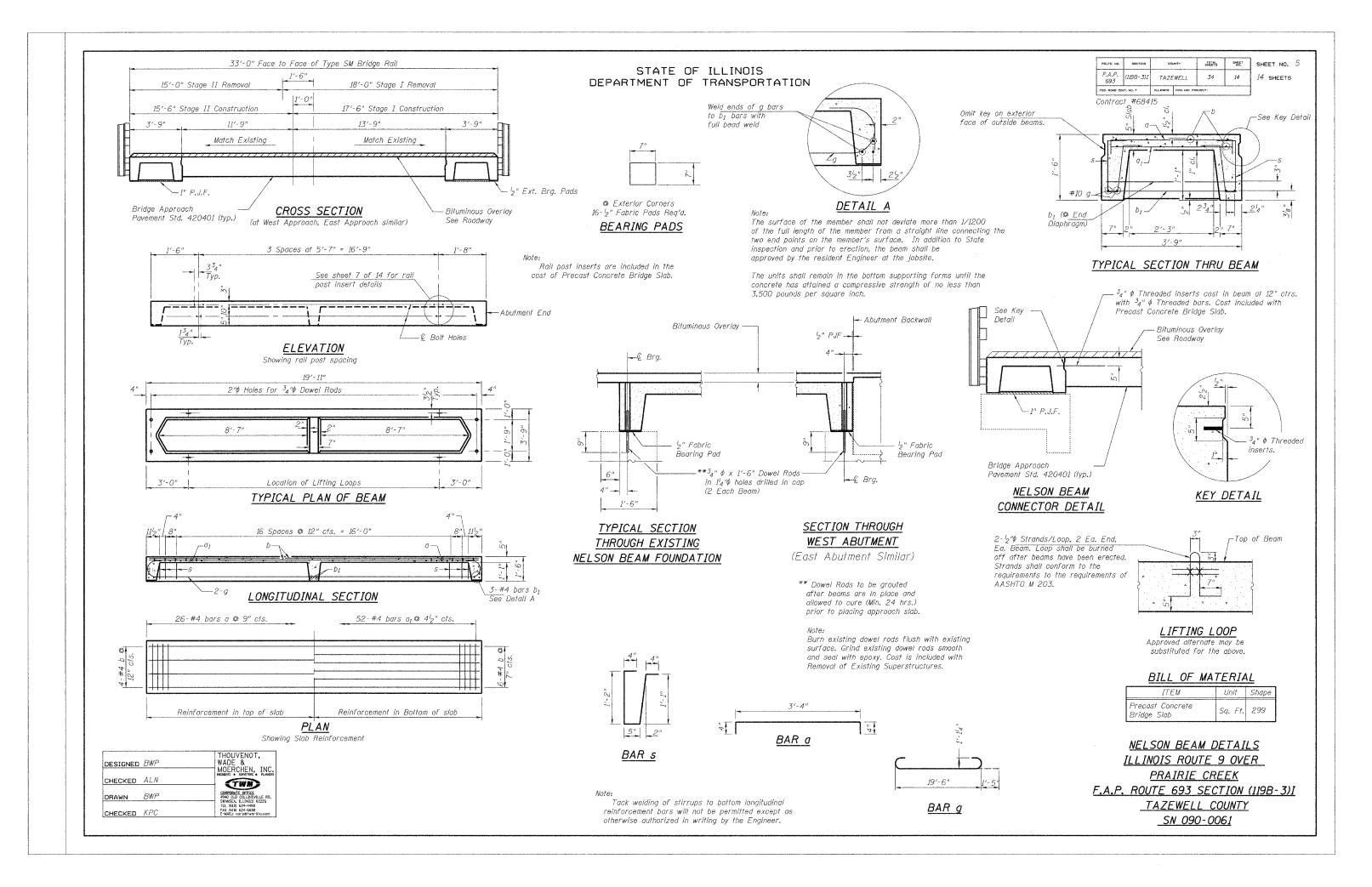
<u>DETAIL I</u>

* Type of insert selected shall be such that insert depth does not interfere with void.

The Temporary Concrete Barrier and wood blocks shall not be removed until Stage II Construction PPC Deck Beams have been placed and shear keys grouted.

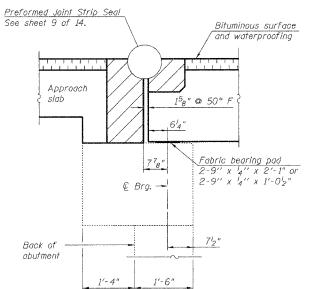
DESIGNED BWP DESIGNED BWP CHECKED ALN DRAWN BWP CHECKED KPC CHECKED KPC CHECKED KPC THOUVENOT, WADE & MORROHE INC. BEGGES + SHITTERS + RABERS CHECKED KPC TO THE STATE OF THE STAT



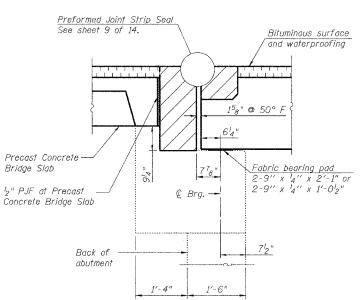




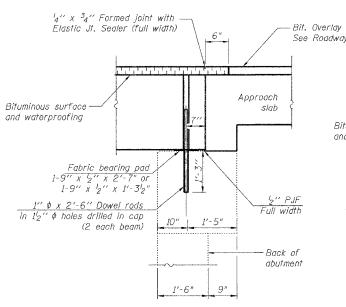




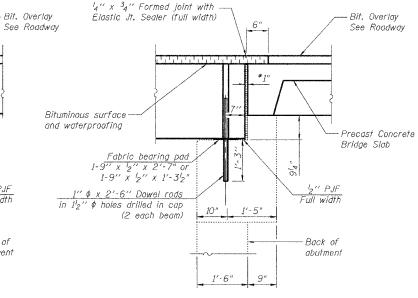
SECTION THRU WEST ABUTMENT



SECTION THRU WEST ABUTMENT (At outside precast unit)



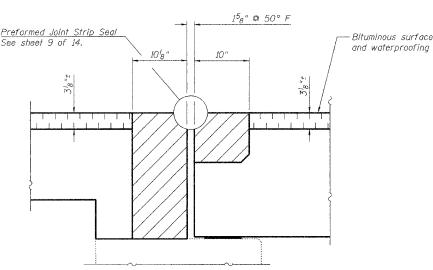
SECTION THRU EAST ABUTMENT



SECTION THRU EAST ABUTMENT

(At outside precast unit)

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



Bituminous Surface Detail (At West Abutment)

Preformed Joint Strip Seal See sheet 9 of 14.			Bituminous surface
300 3,100, 3 31 17,	1018"	10"	and waterproofing
+ : I			
72/8			
			/ {
			- 17
	\mathbb{Z}/\mathbb{Z}		
		Y// /	
}			
			{
·			
			1
	J		
Dit	·mina··a C	urface Dotail	

Notes :

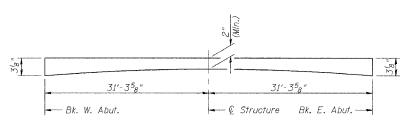
Ends of beams shall be aligned at the expansion joint. Any lineal variation in the beam lengths shall be placed at the fixed joint.

After beams have been erected, temporary retainers shall be installed, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.

Hatched area to be poured after beams are in place and keyways grouted and cured. Quantity included with Concrete Structures on

Dowel rods drilled in cap are included in the cost of Precast Prestressed Concrete Deck Beams (27" Depth).

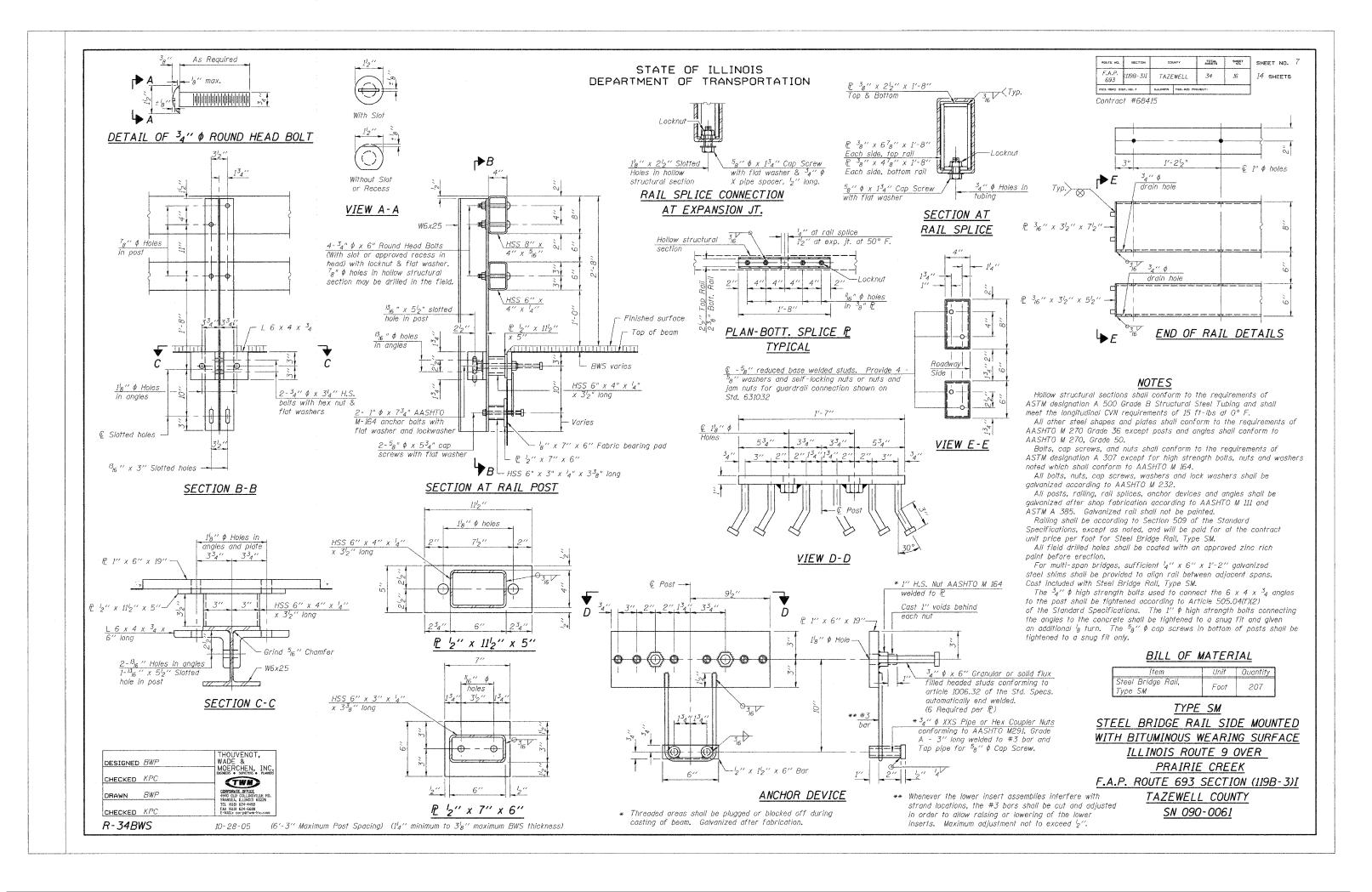
All horizontal dimensions are at right angles to beam ends. See sheet 4 of 14 for bearing pad details.



BITUMINOUS CONCRETE WEARING SURFACE PROFILE

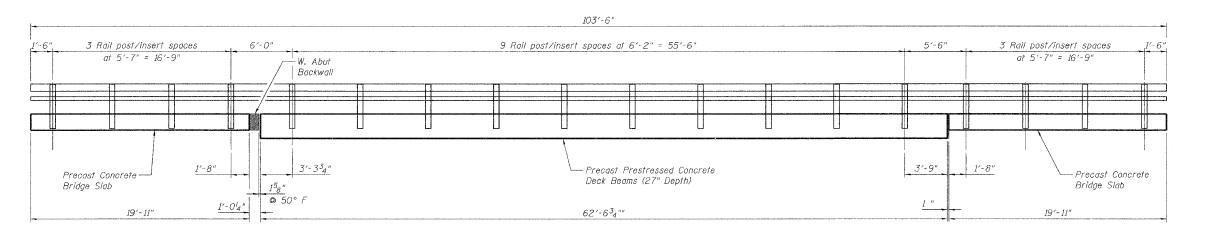
THOUVENOT,
WADE &
MOERCHEN, INC. DESIGNED BWP CHECKED ALN TWW CORPORATE OFFICE 4940 OLD COLLINSVILLE R SWANSEA, ILLINOIS 62226 DRAWN BWP CHECKED KPC

SUPERSTRUCTURE DETAILS ILLINOIS ROUTE 9 OVER PRAIRIE CREEK F.A.P. ROUTE 693 SECTION (119B-3)I TAZEWELL COUNTY SN 090-0061



ROUTE NO.	SECTION	co.	UNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 8
F.A.P. 693	(1198-3)[TAZE	WELL	34	17	14 SHEETS
FED. ROAD DIST, NO. 7		ILLINOIS	FED. AID PRO	OUECT-		

Contract #68415



RAIL POST SPACING

(Looking North)

DESIGNED BWP

CHECKED KPC

DRAWN

BWP

CHECKED KPC

BRIDGE RAIL DETAILS

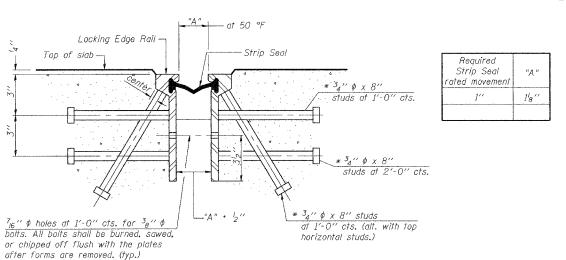
ILLINOIS ROUTE 9 OVER

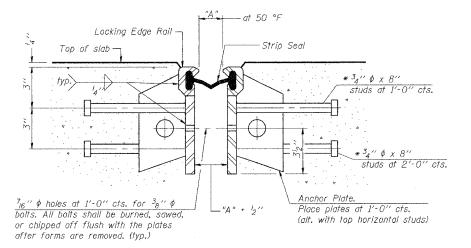
PRAIRIE CREEK

F.A.P. ROUTE 693 SECTION (119B-3)I

TAZEWELL COUNTY

SN 090-0061



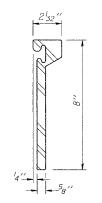


SECTION THRU ROLLED RAIL EXP. JOINT

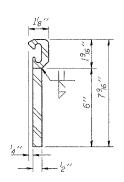
(88 Studs Required-Stage I) (74 Studs Required-Stage II) * Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

SECTION THRU WELDED RAIL EXP. JOINT

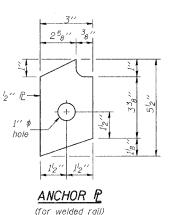
(54 Studs Required-Stage I, 46 Studs Required-Stage II) (34 Anchor Plates Required-Stage II), (28 Anchor Plates Required-Stage II)



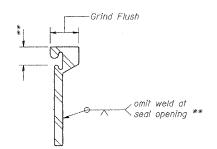




WELDED RAIL



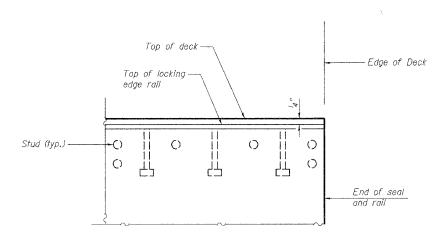
LOCKING EDGE RAILS



LOCKING EDGE RAIL SPLICE

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

		THOUVENOT.
DESIGNED	BWP	WADE &
		MOERCHEN, INC.
CHECKED	ALN	TWH
DRAWN	BWP	CORPORATE OFFICE 4940 OLD COLLINSVILLE RD. SWANSEA, ILLINOIS 62226
CHECKED	KPC	TEL (618) 624-4488 FAX (618) 624-6688 E-MAIL: corp@twm-inc.com



END TREATMENT ELEVATION

(Showing Rolled Rail, Welded Rail Similar)

Contract # 68415

GENERAL NOTES

The strip seal shall be made continuous and shall have a minimum thickness of ${}^{l}_{4}$ ". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.

The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed.

Locking Edge Rails may be spliced at slope discontinuities

and stage construction joints.

The manufacturer's recommended installation methods shall be followed.

PREFORMED JOINT STRIP SEAL

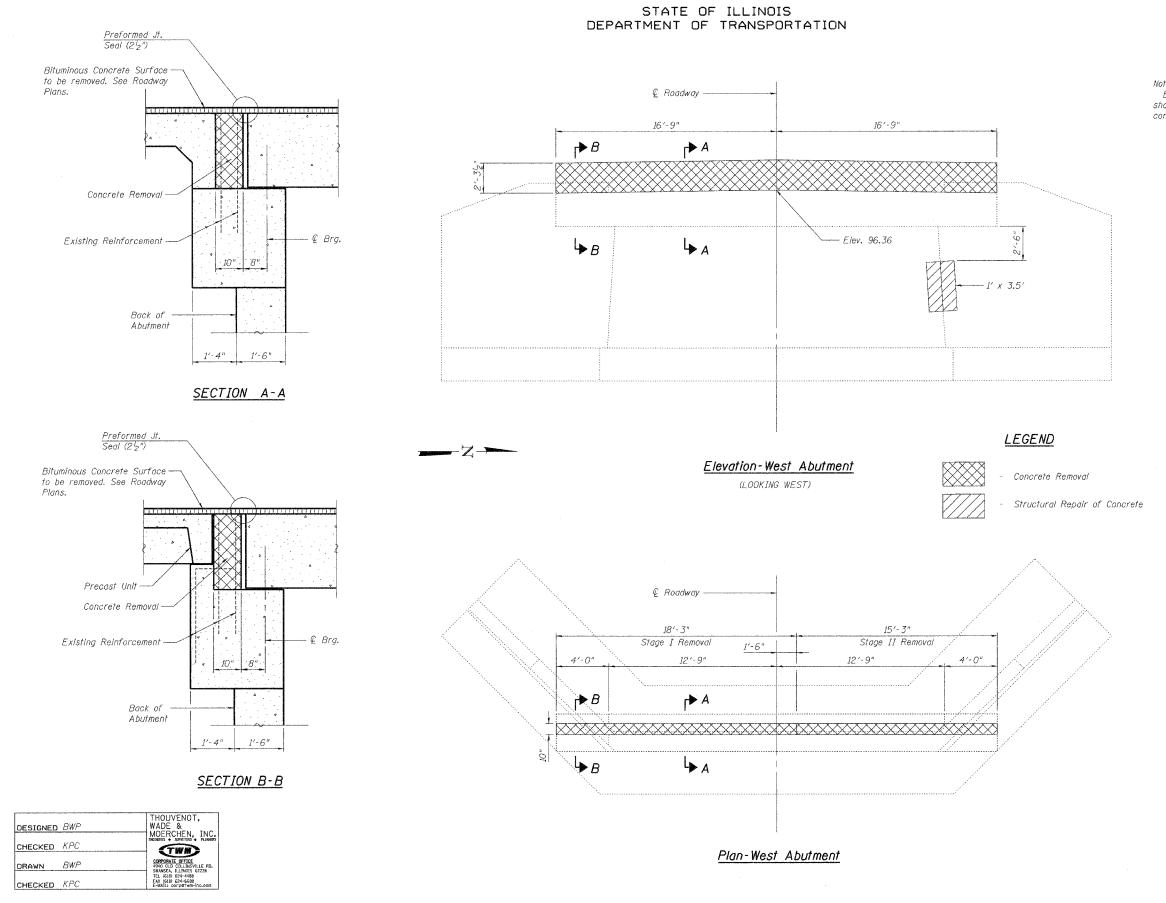
ILLINOIS ROUTE 9 OVER

PRAIRIE CREEK

F.A.P. ROUTE 693 SECTION (119B-3)I

TAZEWELL COUNTY

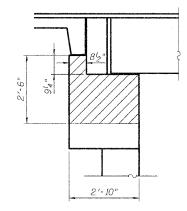
SN 090-0061



ROUTE NO.	SECTION	co.	MTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 10
F.A.P. 693	119-BR-3	TAZEWELL		34	19	14 SHEETS
FED. ROAD DIST. NO. 7 XLLINDIS FED. AID PR			JECT-			

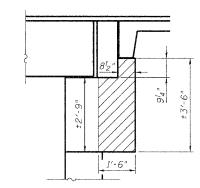
Contract #68415

Existing reinforcement extending into removal areas shall be cleaned, straightened, and incorporated into new construction. Cost included with Concrete Removal.



ELEVATION-WEST ABUTMENT CAP

(LOOKING NORTH)



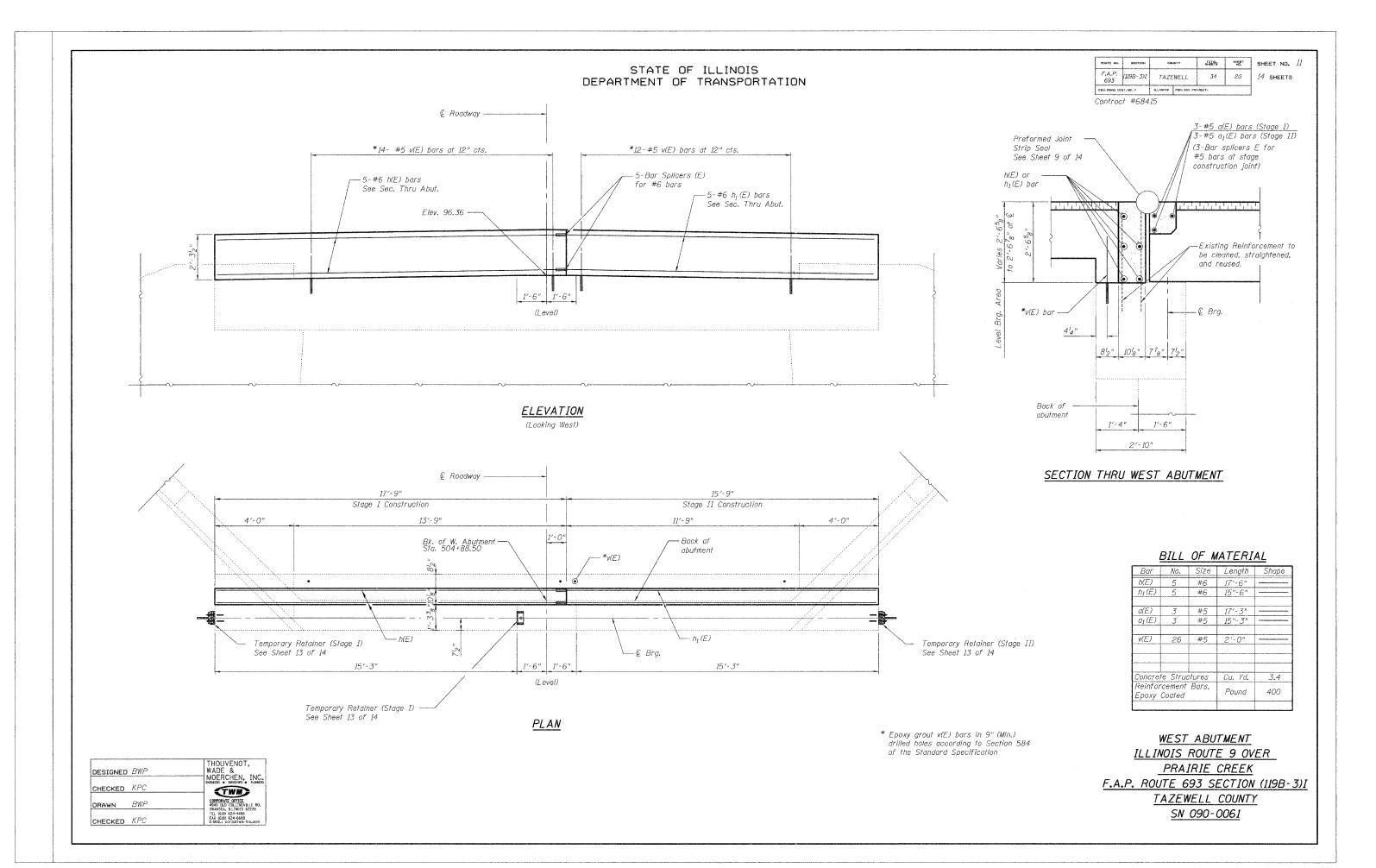
ELEVATION-WEST ABUTMENT CAP

(LOOKING SOUTH)

BILL OF MATERIAL

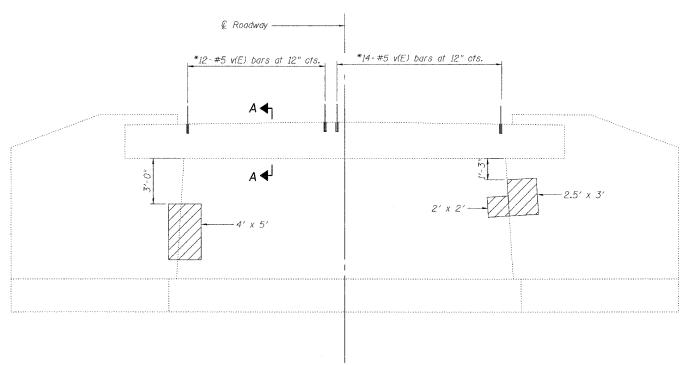
ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	2.4
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	13.6

<u>WEST ABUTMENT</u> CONCRETE REMOVAL AND REPAIR ILLINOIS ROUTE 9 OVER PRAIRIE CREEK F.A.P. ROUTE 693 SECTION (119B-3)1 TAZEWELL COUNTY SN 090-0061



ROUTE NO.	SECTION	cou	INTY	TOTAL SHEETS	SHEET NO.	SHEE	T NO.	12
F.A.P. 693	(1198-3)1	TAZE	WELL	. 34	21	14 9	SHEETS	
ED. ROAD DI	\$T. ND. 7	ILLINOIS	PED. ALD PR	-TOBLO				

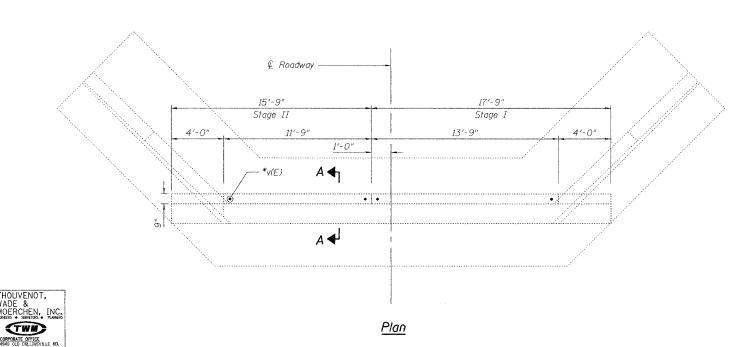
Contract #



<u>LEGEND</u>

<u>Elevation-East Abutment</u>
(LOOKING EAST)

- Structural Repair of Concrete

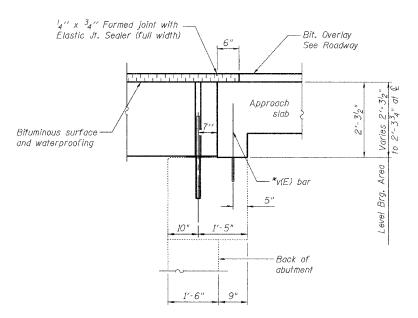


DESIGNED BWP

CHECKED KPC

DRAWN BWP

CHECKED KPC



SECTION A-A

* Epoxy grout v(E) bars in 9" (Min.) drilled holes according to Section 584 of the Standard Specification

BILL OF MATERIAL

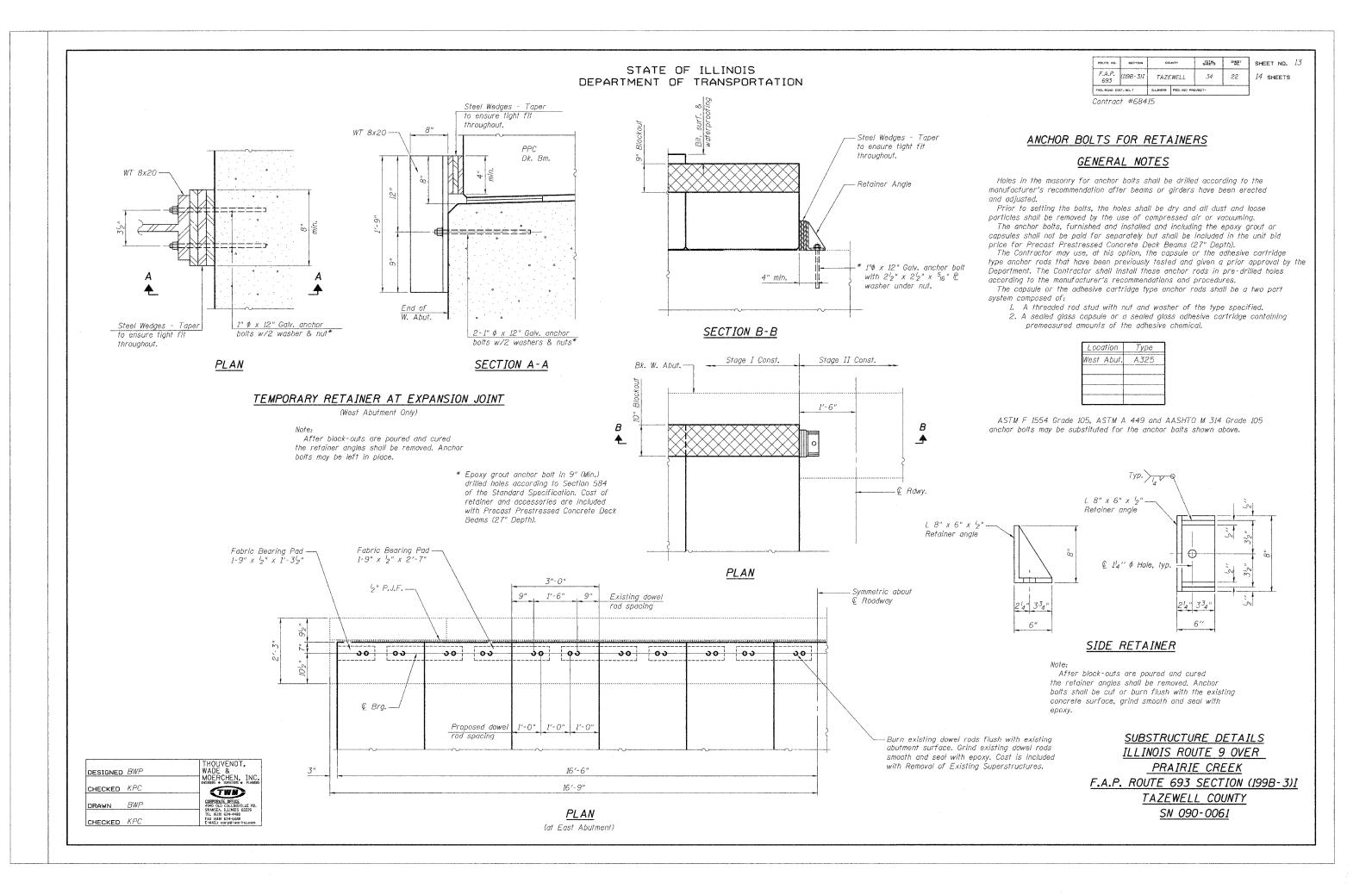
Bar	No.	Size	Length	Shape
v(E)	26	#5	2'-0"	
-				
Reinfor Epoxy	cement Coated	Bars,	Pound	50
		pair of Concrete to or Less Than 5")	Sq. Ft.	31,5

EAST ABUTMENT
CONCRETE REPAIR

ILLINOIS ROUTE 9 OVER
PRAIRIE CREEK

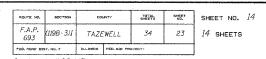
F.A.P. ROUTE 693 SECTION (119B-3)I

TAZEWELL COUNTY
SN 090-0061



DEPARTMENT OF TRANSPORTATION





Contract #68415

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 (Tension in kips) = 1.25 x fy x A_t

(Tension in kips) Minimum *Pull-out Strength = 1.25 x fs_{allow} x A_t (Tension in kips)

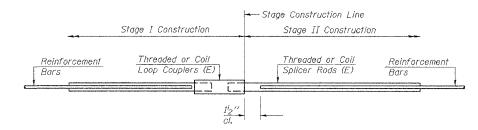
Where fy = Yield strength of lapped reinforcement bars in ksi.

 fs_{allow} = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load) A_t = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

**************************************	0.0.00.7						
	BAR SPLIC	CER ASSEMBLI	<u>ES</u>				
		Strength Requirements					
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Min. Capacity kips - tension	Min. Pull-Out Strength kips ~ tension				
#4	1'-8''	14.7	5.9				
#5	2'-0"	23.0	9,2				
#6	2'-7"	33.1	13.3				
#7	3′-5″	45.1	18.0				
#8	4′-6′′	58.9	23.6				
#9	5′-9′′	75.0	30.0				
#10	7′-3′′	95.0	38.0				
#11	9'-0"	117 4	46.8				

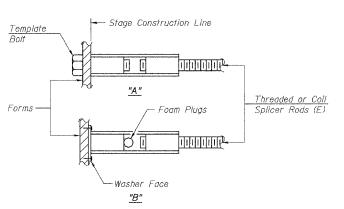
Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



STANDARD

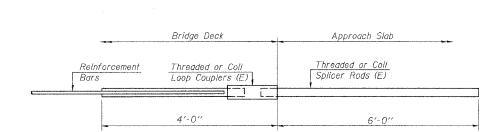
Size	No. Assemblies Required	Location
#5	3	Expansion End Blockout
#6	5	West Abutment

BAR SPLICER ASSEMBLY DETAILS ILLINOIS ROUTE 9 OVER PRAIRIE CREEK F.A.P. ROUTE 693 SECTION (119B-3)1 TAZEWELL COUNTY SN 090-0061



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.



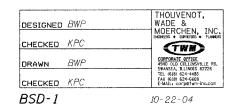
-The diameter of this part is

equal or larger than the

____ diameter of bar spliced.

FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar	
Min. Capacity = 23.0 kips - tension	
Min. Pull-out Strength = 9.2 kips - tension	วก
No. Required =	



The diameter of this part

of the bar spliced.

is the same as the diameter

ROLLED THREAD DOWEL BAR

** ONE PIECE

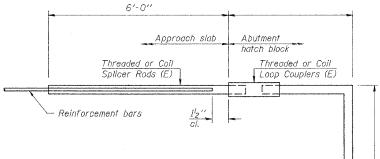
WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM

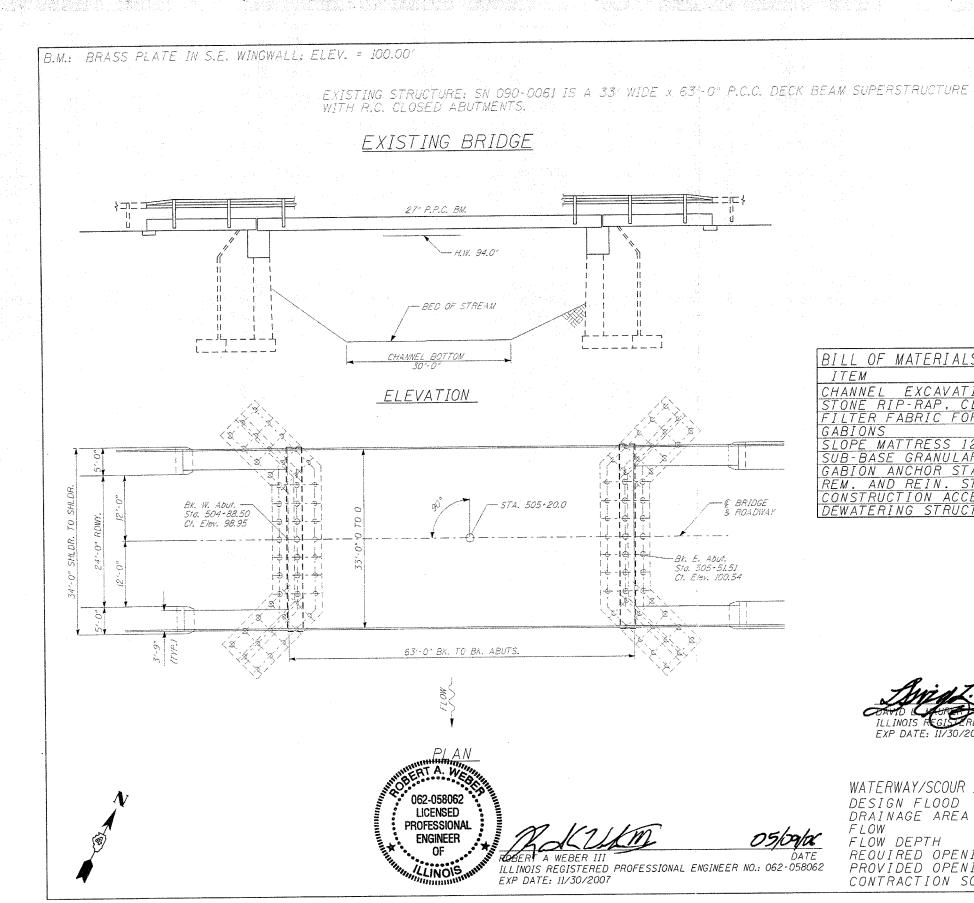
A 563, Grade C, D or DH may be used.

--- Wire Connector



FOR PILE BENT ABUTMENTS

	Bar	Splicer	foi	#5	5 bar		
Min.	Capacity	= 23.0	kip	s -	tensi	on	
Min.	Pull-out	Strength	=	9.2	kips	-	tension
No.	Required	=					



 			14.48	
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	*	VAR	34	24

FED. ROAD DIST. NO. 4 | ILLINOIS | FED. AID PROJECT

* (1198 - 3)[

INDEX OF SHEETS

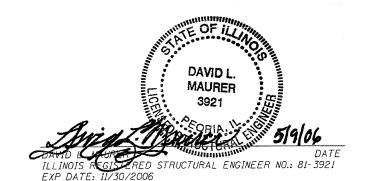
SHEET NUMBER DESCRIPTION

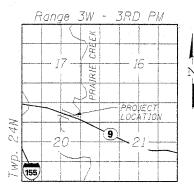
GENERAL PLAN AND ELEVATION, SUMMARY OF QUANTITIES, LOCATION MAP R.O.W. PLAN SITE GRADING PLAN SITE DIMENSION PLAN 5 SITE PROFILE

CROSS SECTIONS

	A CONTRACTOR OF THE PROPERTY O	
BILL OF MATERIALS		
ITEM	UNIT	TOTAL
CHANNEL EXCAVATION	CU YD	416
STONE RIP-RAP, CLASS A5	TONS	129
FILTER FABRIC FOR RIPRAP	SQ YD	712
GABIONS	CU YD	167
SLOPE MATTRESS 12"	SQ YD	307
SUB-BASE GRANULAR MATERIAL, TYPE C	TONS	171
GABION ANCHOR STAKES	EACH	56
REM. AND REIN. STEEL PLATE BEAM GUARD RAIL, TY. A	FOOT	50
CONSTRUCTION ACCESS	L SUM	1
DEWATERING STRUCTURE NO. 1	EACH	1

6-8





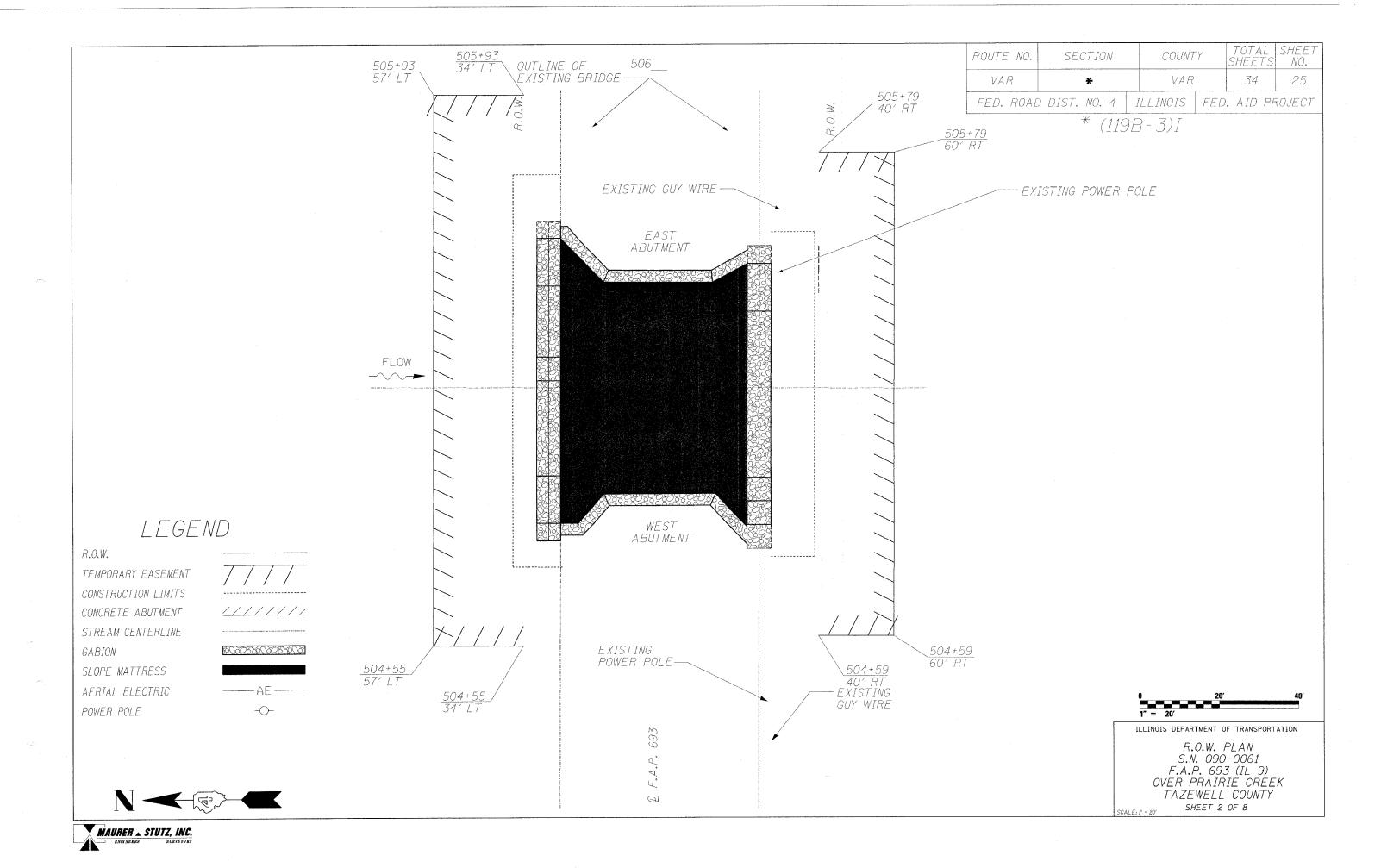
LOCATION SKETCH

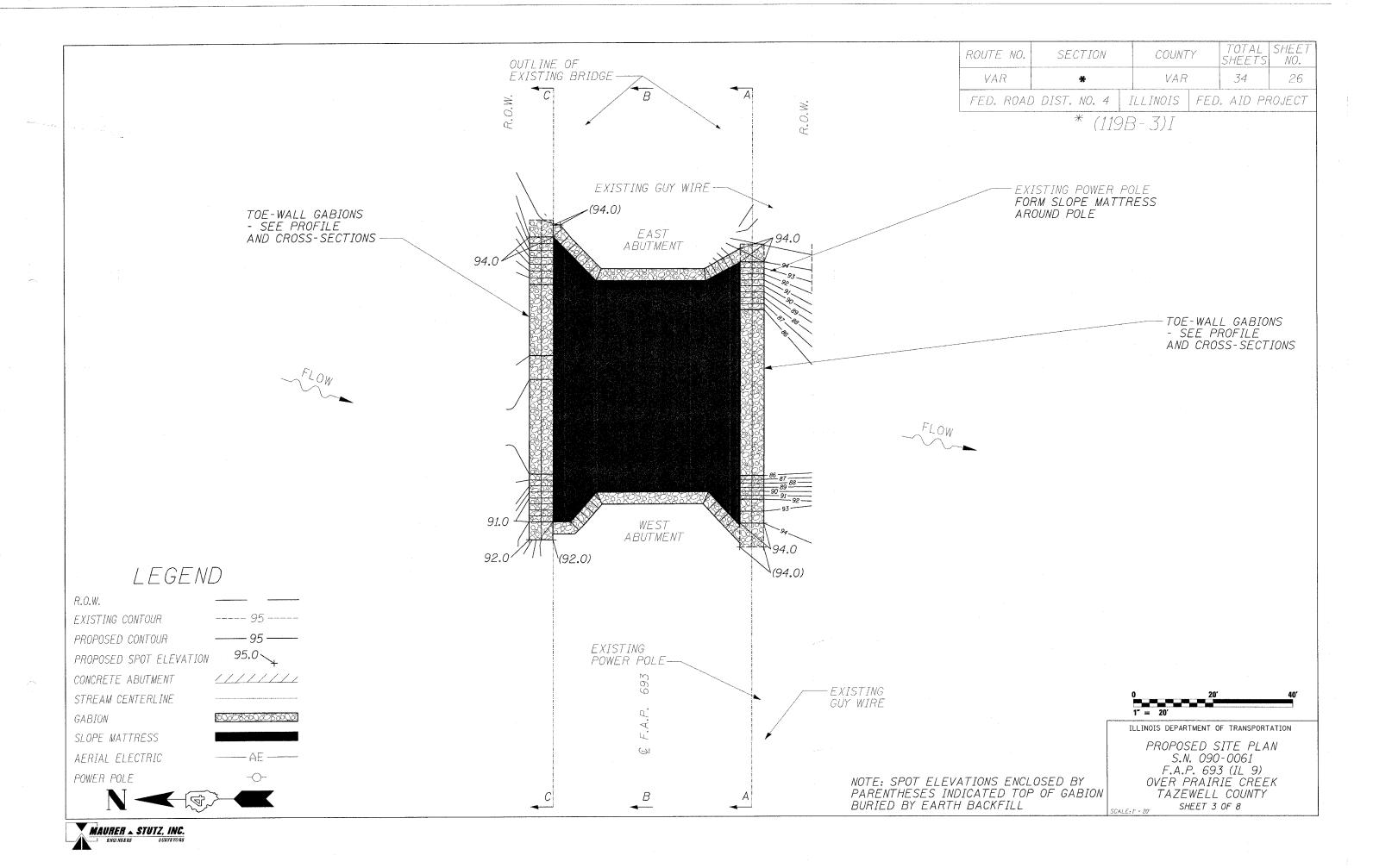
WATERWAY/SCOUR INFORMATION DESIGN FLOOD DRAINAGE AREA FLOWFLOW DEPTH REQUIRED OPENING PROVIDED OPENING CONTRACTION SCOUR DEPTH

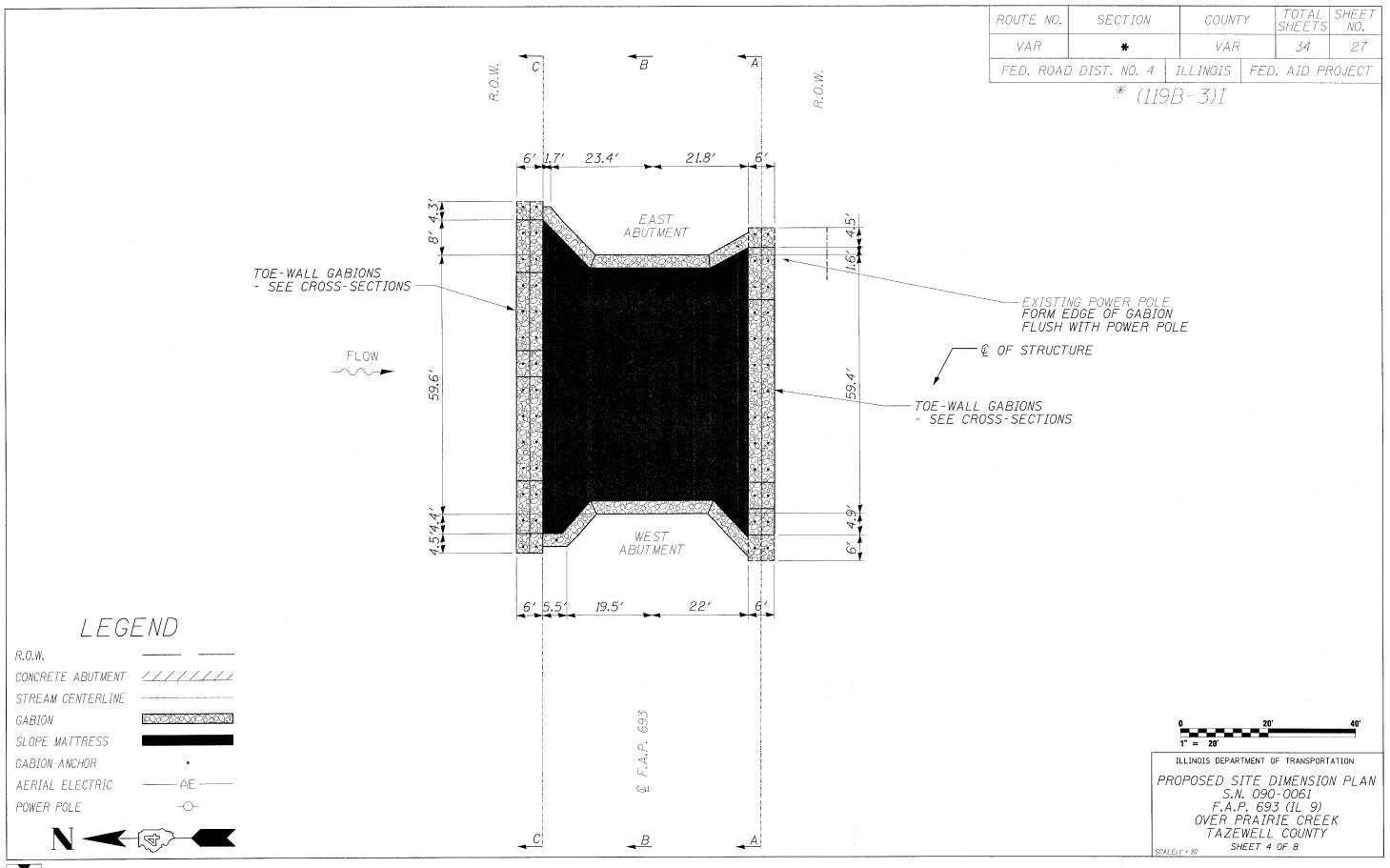
100 YRS 18.2 SO MI 3,426 CFS 8.0 FT 555 SQ FT 658 SQ FT 4 FT

ILLINOIS DEPARTMENT OF TRANSPORTATION GENERAL PLAN & ELEVATION S.N. 090-0061 F.A.P. 693 (IL 9) OVER PRAIRIE CREEK TAZEWELL COUNTY SHEET 1 OF 8

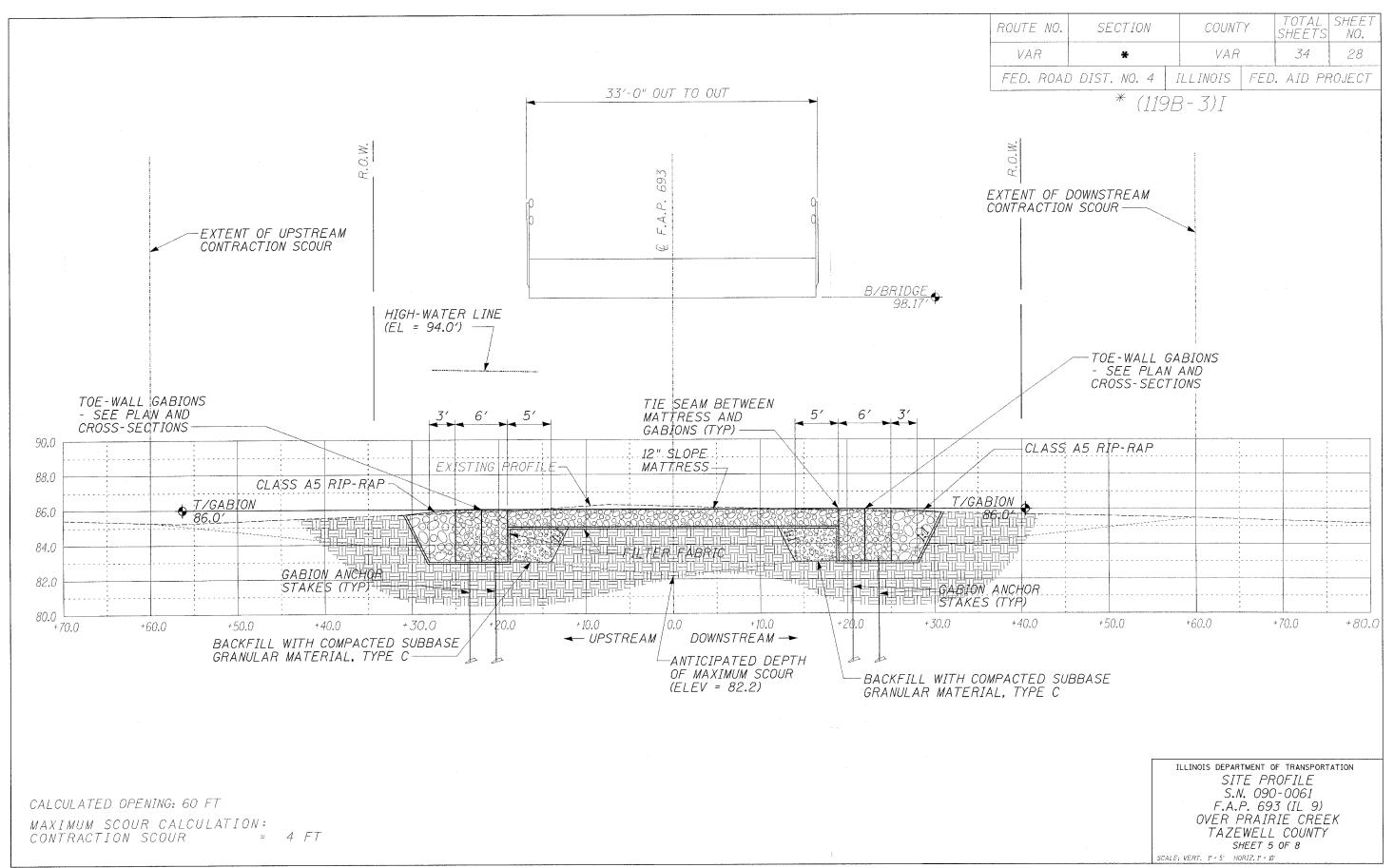
MAURER . STUTZ, INC.







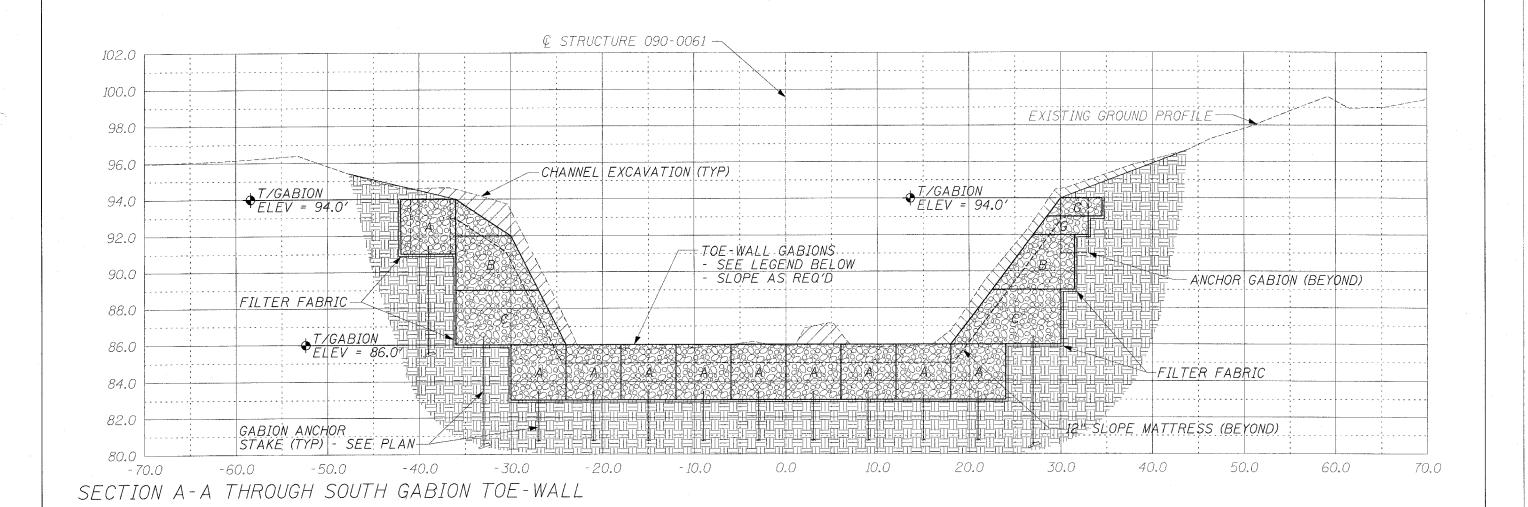




MAURER STUTZ, INC.

ROUTE NO.	SECTION		COUNT	Υ	TOTAL SHEETS	SHEET NO.
VAR	*		VAR		34	29
FED. ROAL	DIST. NO. 4	I	LLINOIS	FED	. AID PF	ROJECT

* (119B-3)I



GABION LEGEND						
MARK	LENGTH	WIDTH	HEIGHT			
Α	6′	3′	3′			
В	9'	3′	3′			
С	12'	3′	3'			
G	6′	3′	1'			

ILLINOIS DEPARTMENT OF TRANSPORTATION SITE CROSS SECTION S.N. 090-0061 F.A.P. 693 (IL 9) OVER PRAIRIE CREEK
TAZEWELL COUNTY
SHEET 6 OF 8

SCALE: VERT. 1" = 5" HORIZ. 1" = 10"

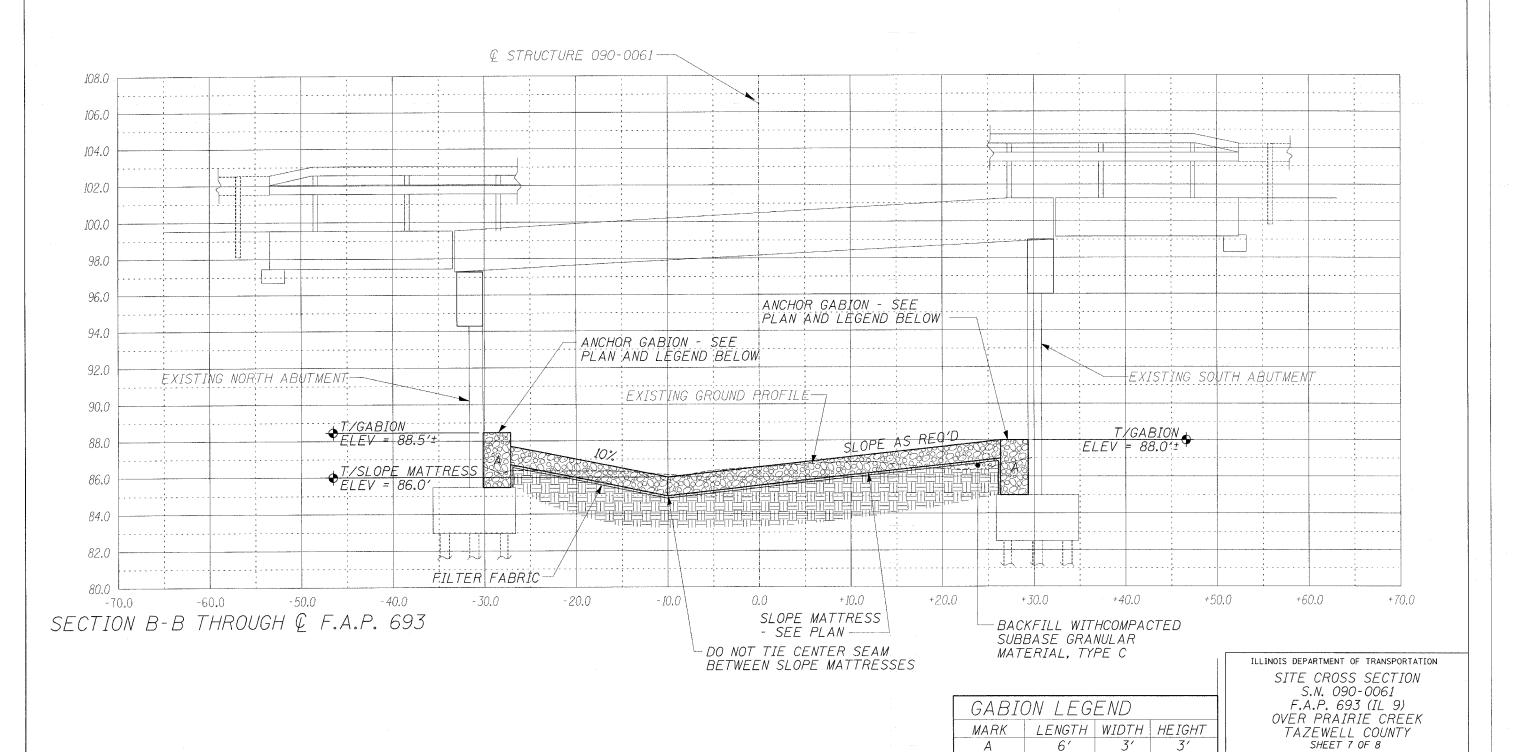


TOTAL SHEET SHEETS NO. ROUTE NO. SECTION COUNTY VAR VAR 34 30 FED. ROAD DIST. NO. 4 | ILLINOIS FED. AID PROJECT

SCALE: VERT. 1" = 5' HORIZ.1" = 10'

* (119B - 3)I

6'



MAURER & STUTZ, INC.

ROUTE NO.	SECTION		COUNT	COUNTY		SHEET NO.
VAR	*		VAR		34	31
FED. ROAL	DIST. NO. 4	-	<i>LLINOIS</i>		. AID PF	

* (119B - 3)I



SECTION C-C THROUGH NORTH GABION TOE-WALL

GABION LEGEND						
MARK	LENGTH	WIDTH	HEIGHT			
Α	6′	3′	3′			
В	9′	3′	3'			
C	12′	3'	3′			
G	6′	3'	1'			

ILLINOIS DEPARTMENT OF TRANSPORTATION

SITE CROSS SECTION

S.N. 090-0061

F.A.P. 693 (IL 9)

OVER PRAIRIE CREEK

TAZEWELL COUNTY

SHEET 8 OF 8

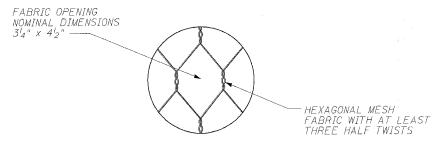
SCALE: YETT. 1'=5' HORIZ. 1'= 10'



SUGGESTED INSTALLATION SEQUENCE

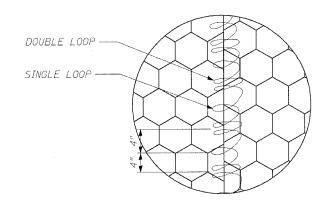
(SEE ALSO SECTION 284 OF THE STANDARD SPECIFICATIONS)

- 1. INDIVIDUALLY ASSEMBLE THE EMPTY GABION BASKET UNITS.
- 2. POSITION THE INITIAL LINE OF EMPTY GABION BASKET UNITS
 ON THE PREPARED SURFACE IN A DIRECTION PERPENDICULAR TO
 STREAM FLOW. SECURE ADJOINING BASKETS AND PARTIALLY
 FILL TO PROVIDE ANCHORAGE AGAINST DEFORMATION AND DISPLACEMENT DURING FILLING OPERATIONS.
- 3. POSITION AND SECURE THE REMAINING EMPTY GABION BASKET UNITS ON THE PREPARED SURFACE AS SHOWN ON THE PLANS.
- 4. PLACE THE BASKETS IN TENSION AND STRETCH TO REMOVE ANY KINKS FROM THE FABRIC. STRETCH THE EMPTY GABION BASKET UNITS IN A MANNER THAT WILL PREVENT UNRAVELING.
- 5. FILL THE BASKET UNITS IN STAGES TO PREVENT LOCALIZED DEFORMATION. INTERNAL CONNECTING WIRES SHALL BE INSTALLED BETWEEN STONE LAYERS TO CONNECT THE FRONT FACE OF THE BASKET UNIT TO THE BACK FACE. AT NO TIME SHALL ANY CELL BE FILLED TO A DEPTH EXCEEDING 12 INCHES MORE THAN THE ADJOINING CELL. THE MAXIMUM HEIGHT FROM WHICH THE STONE MAY BE DROPPED INTO THE BASKET SHALL BE 3 FT.
- 6. TIGHTLY STRETCH THE LID OVER THE STONE FILL USING A LID CLOSING TOOL APPROVED BY THE MANUFACTURER. USING CROWBARS OR OTHER SINGLE POINT LEVERAGE BARS FOR LID CLOSING SHALL BE PROHIBITED. TIGHTLY SECURE THE LID TO THE FILLED BASKET ALONG ALL EDGES, ENDS AND INTERNAL CELL DIAPHRAMS.
- 7. IN LIEU OF FILLING BASKETS IN PLACE, THE BASKETS MAY BE IN LIEU OF FILLING BASKETS IN PLACE, THE BASKETS MAY BE PREFILLED ON A LEVEL SURFACE AS INDICATED IN STEPS 5 AND 6. THE BASKETS CAN THEN BE LIFTED AND PLACED ON THE PREPARED SURFACE USING A MANUFACTURER'S APPROVED LIFTING TECHNIQUE. CARE SHALL BE TAKEN NOT TO ABRADE THE ZINC OR VINYL COATING OR PERMANENTLY DISTORT THE SHAPE OF THE BASKET IN TRANSPORTATION. ANY DAMAGE TO THE BASKETS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER. BASKETS SHALL BE PLACED TIGHTLY AGAINST AND SECURED TO BASKETS ALREAD IN PLACE.
- 8. WHERE A COMPLETE GABION UNIT CANNOT BE INSTALLED AS SHOWN ON THE PLANS BECAUSE OF SPACE LIMITATIONS, THE BASKET UNIT SHALL BE CUT, FOLDED AND WIRED TOGETHER TO SUIT EXISTING SITE CONDITIONS.



- I. GABION BASKETS SHALL BE CONSTRUCTED OF A GALVANIZED, ALUMINIZED, OR PVC-COATED GALVANIZED OR ALUMINIZED
- 2. STEEL WIRE SHALL CONFORM TO SECTION 1006.35 OF THE STANDARD SPECIFICATIONS

GABION FABRIC DETAIL



LACING DETAIL -LOOP AND SECURE CONNECTING CABLE WITH COMPRESSION FITTING (TYP) CONNECTING CABLE (3/8" MIN DIA) GABION BLOCKS (TYP) ALUMINUM COMPRESSION, GABION ANCHOR STAKE CENTERED WITHIN GABION BLOCK (1'4" DIA x 8'-0" LONG) OR MANTARAY MODEL MR-3 ANCHOR - TYP

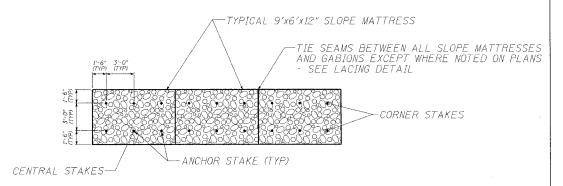
GABION ANCHOR STAKE SECURING DETAIL

TOTAL | SHEET ROUTE NO. SECTION COUNTY NO. VAR VAR 34 32 FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT

(119B - 3)7

- GABION BASKET NOTES:

 1. BASKETS SHALL BE OF SINGLE UNIT CONSTRUCTION. THE BASE,
 LID, ENDS AND SIDES SHALL BE EITHER WOVEN INTO A SINGLE
 UNIT OR ONE EDGE OF THESE MEMBERS CONNECTED TO THE BASE SECTION OF THE BASKETS. FOR PROPER ASSEMBLAGE, SEE LACING
- 2. DIAPHRAMS SHALL EQUALLY DIVIDE BASKETS WHERE THE LENGTH OF THE BASKET EXCEEDS 1^{\prime}_2 IT'S HORIZONTAL LEGNTH.
- 3. GABION BASKET ASSEMBLAGE, INSTALLATION, FILLING AND LID-CLOSING SHALL BE IN ACCORDANCE WITH SECTION 284 OF THE STANDARD SPECIFICATIONS.



- 1, ANCHOR STAKES SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 284 OF THE STANDARD SPECIFICATIONS.
- 2. ANCHOR STAKES ARE TO BE PLACED ON THREE-FOOT CENTERS, WITH AN ARRANGEMENT AS SHOWN ABOVE, FOR ALL SLOPE MATTRESSES LAID ON A SLOPE OF 2:1 OR GREATER.
- 3. ANCHOR STAKES FOR SLOPE MATTRESSES LAID ON SLOPE LESS THAN 2:1 AND GREATER THAN 10% SHALL OMIT THE CENTRAL STAKES SHOWN ABOVE 4 STAKES PER 6'x9' MATTRESS.
- 4. ALL SLOPE MATTRESSES LAID ON SLOPES LESS THAN 10% SHALL NOT HAVE ANCHOR STAKES.

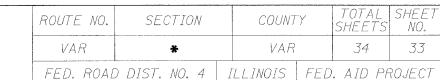
TYPICAL ANCHOR STAKE LAYOUT DETAIL

GABION LEGEND							
MARK	LENGTH	WIDTH	HEIGHT				
Α	6′	3′	3′				
В	B 9'		3′				
С	12′	3′	3'				
D	6′	3′	1/2'				
G	6′	3′	1'				
Н	9′	3′	1'				

ILLINOIS DEPARTMENT OF TRANSPORTATION

GABION DETAILS S.N. 090-0061 IL 9 OVER PRAIRIE CREEK





* (119B - 3)I -LIMITS OF CURRËNT: -LIMITS OF FINAL-EXISTING -STAGE SCOUR COUNTERMEASURE OR PREVIOUS STRUCTURE STAGE SCOUR (TYP.)COUNTERMEASURES STREAM AT LOW FLOW



NOTE: DEWATERING SYSTEM DETAILS SHALL BE USED IN CONJUNCTION WITH THE PROJECT SPECIAL PROVISIONS.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DEWATERING SYSTEM DETAILS S.N. 090-0061 IL 9 OVER PRAIRIE CREEK

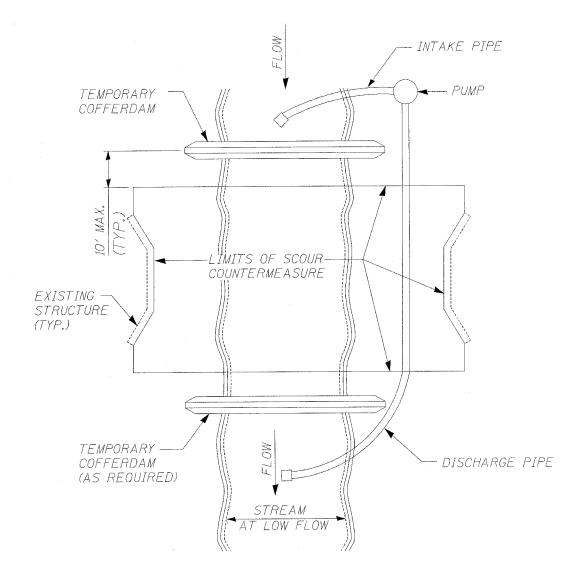
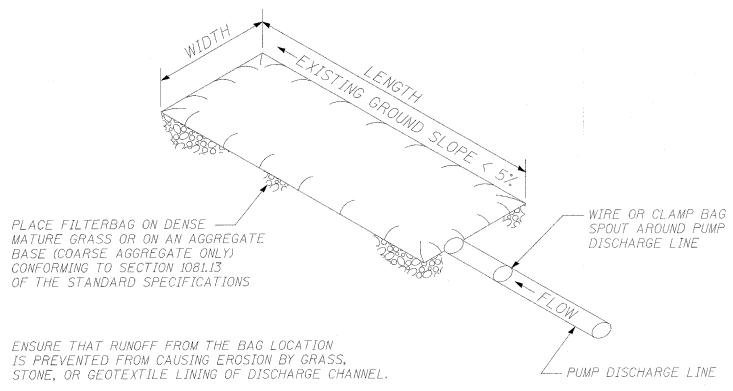


FIGURE D1. TEMPORARY COFFERDAM WITH PUMP BYPASS



ROUTE NO.	SECTION		COUNT	COUNTY		SHEET NO.
VAR	*		VAR		34	34
FED. ROAL	D DIST. NO. 4	Ì	LLINOIS	FED	. AID PF	ROJECT

* (1198 - 3) [



REMOVE SILT WHEN BAG IS HALF FULL OR MORE OFTEN IF RECOMMENDED BY THE MANUFACTURER. DISPOSE OF SILT BY TRANSPORTING THE FILLED BAG TO DISPOSAL AREA. SLIT THE BAG, BLEND SILT INTO EXISTING TOPOGRAGHY, SEED AND MULCH

MAINTAIN EXTRA FILTER BAGS ON SITE. REPLACE DAMAGED BAGS PROMPTLY

TYPICAL FLOX RATE: 10 GPM x W x L

FIGURE S1. SEDIMENT FILTER BAG

NOTE: DEWATERING SYSTEM DETAILS SHALL BE USED IN CONJUNCTION WITH THE PROJECT SPECIAL PROVISIONS.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DEWATERING SYSTEM DETAILS S.N. 090-0061 IL 9 OVER PRAIRIE CREEK

