

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED BRIDGE REPLACEMENT AND REHABILITATION PROGRAM

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SECTION 99-05117-00-BR

DRY POINT ROAD DISTRICT

SHELBY COUNTY

PROPOSED STRUCTURE No. 087-3520

PROJECT No. BROS-173(126)

JOB No. C-95-320-04

REQUIRED HIGHWAY STANDARDS

000001-04 280001-02 515001-02 702001-05

BLR21-6

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS TEMPORARY EROSION CONTROL SYSTEMS NAME PLATE FOR BRIDGES

TRAFFIC CONTROL DEVICES

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

PROJECT ENDS
STA. 15+00.00

STA. 10+00.00 SPECIAL BRIDGE DESIGN

THREE SPAN 21" P.C.C. DECK BEAM BRIDGE 145'-O" BK. TO BK. ABUTMENTS, 24'-O" CLEAR WIDTH PILE BENT ABUTMENTS AND PIERS, 15° SKEW RT. AHEAD

PROPOSED STRUCTURE No. 087-3520

PROJECT BEGINS

D R Y P O I N T

EXISTING STRUCTURE NO. 087-3330

SINGLE SPAN TIMBER DECK GIRDER BRIDGE,
51'-0" BACK TO BACK ABUTMENTS, 13'-2" WIDE.
STEEL PIPE HANDRAILS BOTH SIDES.
CLOSED TIMBER PILE BENT ABUTMENTS.

SCALES

	49		0	50	10
PLAN	1" =	50'	0	50	10
PROFILE HORIZ.	1" =	50'	0	5	-
PROFILE VERT.	1" =	5'			
CROSS SECTIONS HORIZ.	1" =	10'	0	10	2
CROSS SECTIONS VERT.	1" ==	5'	0	5	

ie consultants

International Engineering Consultants, Inc. 6420 South Sixth Street Road Springfield, Illinois 62707 Tel. (217) 529-8027 Fax (217) 529-4548

> 188 W. Randolph St. Suite 1826 Chicago, Illinois 60601 Tel. (312) 920–9528 Fax. (312) 920–9570 e–Mail: iechicago@ie-consultants.com

LCCATION MAP

APPROXIMATE SCALE: 1 INCH = 1 MILE |
NET LENGTH OF SECTION = 900.00 FEET = 0.1705 MILES
FUNCTIONAL CLASSIFICATION: LOCAL ROAD ADT 0-250

CURRENT ADT < 100 DESIGN ADT < 100



David Booher, Illinois P.E. 062-043769

Expires 11-30-2005

Z-**[8-05**] 3769 Date The acceptance of this project is based on the minimum design criteria for a Federal-Aid Bridge Replacement and Rehabilitation Improvement

UTILITY COMPANIES

121 SOUTH 17th STREET

MR. JIM MATLOCK

P.O. BOX 560

(217) 774-3986

MATTOON, ILLINOIS 61938 1-(217) 235-3311

SHELBY ELECTRIC COOPERATIVE

SHELBYVILLE, ILLINOIS 62565

ILLINOIS CONSOLIDATED TELEPHONE CO.

APPROVED _	2-23	20 _5
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PASSED	1 al 8	20 05
€.	ounty Engineer	
PASSED _	0 115	8 20 <u>05</u>
Di	Strict Engineer of Loca	al Roads & Streets
APPROVED _	Abaic 1	h 20 05
F	legional/Engineer	
DEP	STATE OF ILLINO	is

CALL J.U.L.I.E.

(JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS)
48 Hours (2 working days) Before You Dig.
TOLL FREE: 1 (800) 892—0123

TR SECTION COUNTY

128 99-05117-00-BR SHELBY 15 2 FED. ROAD DIST. NO. | ILLINOIS | FED. AID | PROJECT

SUMMARY	OF	QUANTITIES	

	SUMMART OF QUANTIT	1E.5	
CODE NO.	ITEM	UNIT	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	35
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	32
* 20200100	EARTH EXCAVATION	CY	607
20300100	CHANNEL EXCAVATION	CY	1010
20400800	FURNISHED EXCAVATION SEEDING, CLASS 2 NITROGEN FERTILIZER NUTRIENTS	CY	1358
* 25000200	SEEDING, CLASS 2	ACRE POUND	1.1
25000400	NITROGEN FERTILIZER NUTRIENTS	POUND	99
25000500	PHOSPHOURS FERTILIZER NUTRIENTS	POUND	99
25000600	POTASSIUM FERTILIZER NUTRIENTS	POUND	99
* 25100115	MULCH METHOD 2	ACRE	1, 1
28000250	TEMPORARY EROSION CONTROL SEEDINGS	POUND	300
28000300	TEMPORARY DITCH CHECKS	EACH	8
28000400	PERIMETER EROSION BARRIER	FOOT	300
28000500	INLET AND PIPE PROTECTION	EACH	3
* 28100 <i>8</i> 07	STONE DUMPED RIPRAP, CLASS A4	TON	354
	STONE RIPRAP DITCH	TON	120
28200200	FILTER FABRIC FOR USE WITH RIPRAP	SQ YD	389
* 40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	888
* 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CY	154
50300225	CONCRETE STRUCTURES	CY	89.8
* 50400405	PRECAST PRESTRESSED CONCRETE DECK	SQ FT	3426
	BEAMS (21" DEPTH)		
50800105	REINFORCEMENT BARS	POUND	7600
50900205	STEEL RAILING, TYPE S1	FOOT	289
XX006194	STEEL RAILING, TYPE S1 FURNISHING METAL PILE SHELLS	FOOT	560
51202600	DRIVING AND FILLING SHELLS	FOOT	560
51203200	TEST PILE METAL SHELLS	EACH	4
51204315	CONCRETE ENCASEMENT	CY	2.2
51500100	NAME PLATES	EACH	1
54200640	PIPE CULVERTS, TYPE 1, CORRUGATED STEEL	FOOT	88
	OR ALUMINUM CULVERT PIPE 15"		
54200643	PIPE CULVERTS, TYPE 1, CORRUGATED STEEL	FOOT	40
	OR ALUMINUM CULVERT PIPE 18"		
* X5020501	UNDERWATER STRUCTURE EXCAVATION	EACH	1
	PROTECTION LOCATION 1		
* X5020502	UNDERWATER STRUCTURE EXCAVATION	EACH	1
	PROTECTION LOCATION 2		

* SEE SPECIAL PROVISONS

GENERAL NOTES

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

THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER IN REGARD TO THE EXACT LENGTHS OF PIPE CULVERTS PRIOR TO ORDERING THESE ITEMS.

EXISTING CMP CULVERTS TO BE REMOVED SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

ALL DISTURBED EARTH SURFACES WITHIN THE LIMITS OF THE RIGHT-OF-WAY AND EASEMENTS SHALL BE SEEDED AS DIRECTED BY THE ENGINEER.

16'-0" _ FIELD ENTRANCE SEE CROSS SECTIONS FOR END OF IMPROVEMENT EARTHWORK SUMMARY EARTH EXCAVATION = 607 CU YD 2'-0" CHANNEL EXCAVATION = 1.010 CU YD 2'-0" EARTH SHLD. STRUCTURE EXCAVATION = 154 CU YD 1/2"/FT 1/2"/FT TOTAL FILL REQ'D. = 2,434 CU YD (IN PLACE) ** ESTIMATE OF FILL FROM EARTH EXCAVATION = 455 CU YD *** ESTIMATE OF FILL FROM CHANNEL EXCAVATION = 505 CU YD ** ESTIMATE OF FILL FROMM STRUCTURE EXCATATION = 116 CU YD FURNISHED EXCAVATION REQUIRED = 1358 CU YD ** 25% SHRINKAGE FACTOR APPLIED *** 50% SHRINKAGE FACTOR APPLIED -2'-0" EARTH SHLD. 1 EDGE OF ROADWAY 15'-0" SURFACE COURSE (TYPICAL) 1) AGGREGATE SURFACE COURSE, TYPE B 6"

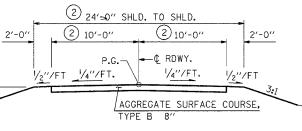
ESTIMATED QUANTITIES

ITEM	RATE OF APPLICATION	QUANTITIES
SEEDING CLASS 2	PER ART. 250.07 =	1.1 ACRES
NITROGEN FERTILIZER NUTRIENTS	= 90 LBS./ACRE =	99 POUNDS
PHOSPHORUS FERTILIZER NUTRIENTS	= 90 LBS./ACRE =	99 POUNDS
POTASSIUM FERTINIZER NUTRIENTS	= 90 LBS./ACRE =	99 POUNDS
MULCH METHOD 2	= 2 TONS/ACRE =	1.1 ACRE

THE SEEDING MIXTURE SHALL CONFORM TO ROADSIDE MIXTURE TYPE 2, DURING THE PERIOD BETWEEN NOVEMBER 1, AND DECEMBER 31, THE CONTRACTOR SHALL SUBSTITUTE 10 POUNDS OF PERENNIAL RYE FOR 48 POUNDS OF OATS, SPRING.

FIELD ENTRANCE DETAIL

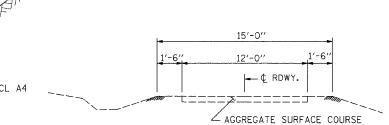
2 TRANSITION FROM EXISTING ROADWAY WIDTH AT STA 6+00 TO PROPOSED WIDTH AT STA 6+65. TRANSITION FROM PROPOSED WIDTH AT STA 14+28 TO EXISTING WIDTH AT STA 15+00.



PROPOSED TYPICAL SECTION

T.R. 128 DESIGN ADT < 100 STA. 6+00 TO STA. 15+00

THE PROPOSED EARTHWORK SHALL BE CONSTRUCTED AND COMPACTED PRIOR TO BEING CORED OUT FOR CONSTRUCTION OF THE AGGREGATE SURFACE COURSE.



EXISTING TYPICAL SECTION

2'-0" RIPRAP CL A4

RIP-RAP DITCH

(NO BEDDING OR FILTER FABRIC) LEFT STA. 14+00 TO LEFT STA. 15+00 RIGHT STA. 14+00 TO RIGHT STA. 15+00

ROUTE NO. SECTION

T.R. 128 *

* 99-05117-00-BR

COUNTY

SHELBY

FED. ROAD DIST. NO. 7 ILLINDIS FED. AID PROJEC

15

TOTAL SHEET No. / OF

2 SHEETS

3

T.R. 128 BRIDGE CONSTRUCTION PROJECT DRY POINT ROAD DISTRICT SHELBY COUNTY

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISION OF THE NPDES PERMIT NUMBER ILR10 ______ ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.

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 GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRE OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING 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.

(COUNTY OFFICE)

2-23-05 (DATE)

County Engineer

THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES. THE CONTRACTOR SHALL ABIDE TO ALL REQUIREMENTS WITHIN THIS PLAN AS PART OF THE CONTRACT.

THE PURPOSE OF THIS PLAN IS TO PREVENT / MINIMIZE SILTATION WITHIN THE CONSTRUCTION ZONE AND TO ELIMINATE SEDIMENTS FROM ENTERING AND LEAVING THE CONSTRUCTION ZONE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE TIME.

CERTAIN ITEMS, AS SHOWN IN THIS PLAN AND REFERENCED BY THE LEGEND, SHALL BE PLACED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION RESULTING FROM THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF THE YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL PLACE PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A REASONABLE AMOUNT OF TIME; THEREFORE, REDUCING THE AMOUNT OF AREA BEING OPEN TO THE POSSIBILITY OF EROSION AND REDUCING THE AMOUNT OF TEMPORARY EROSION CONTROL SYSTEMS AND TEMPORARY SEEDING. THE RESIDENT ENGINEER WILL DETERMINE IF TEMPORARY EROSION CONTROL SYSTEMS HOWN IN THE PLAN CAN BE DELETED, THE SIZE OF THE PROPOSED DITCH CHECKS, THE PROPER METHOD OF INSTALLATION, AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS SHALL BE ADDED WHICH ARE NOT INCLUDED IN THIS PLAN. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN SPECIAL DETAILS AND IN STANDARD 280001 OF THE PLANS.

ALL DISTURBED AREAS HAVING HIGH POTENTIAL FOR EROSION, AS DETERMINED BY THE ENGINEER, SHALL BE PERMANENTLY SEEDED AS SOON AS POSSIBLE.

LEGEND FOR STORM WATER POLLUTION PREVENTION PLAN

TEMPORARY DITCH CHECKS
(HAY OR STRAW BALE DITCH CHECKS OR APPROVED SUBSTITUTION)

PERIMETER EROSION BARRIER

DIRECTION OF OVERLAND FLOW

INLET AND PIPE PROTECTION

NOTE: THE EROSION CONTROL PLAN SHALL BE IMPLEMENTED AS
DESCRIBED ON THIS "SOIL EROSION AND SEDIMENT CONTROL
PLAN" PER THE IDOT STANDARD SPECIFICATION FOR ROAD AND
BRIDGE CONSTRUCTION, PER IDOT STANDARD 280001, AND AS
DIRECTED BY THE ENGINEER.

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

- 1. THE PROPOSED PROJECT CONSISTS OF REMOVING THE EXISTING STRUCTURE, CONSTRUCTING A BRIDGE AND THE APPROACHES TO THE BRIDGE.
- CONSTRUCTION CONSISTS OF PILING, CONCRETE STRUCTURE, PRECAST PRESTRESSED CONCRETE DECK BEAMS, PIPE CULVERTS, AGGREGATE ROAD SUFACE, DITCH GRADING AND SHAPING AND SEEDING.

DESCRIPTION OF INTENDED SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB EARTH AND LEAD TO POSSIBLE EROSION FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE:

- EXCAVATION AND FURNISHED EXCAVATION WILL BE COMPLETED AT LOCATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- DRAINAGE STRUCTURES WILL BE INSTALLED BEFORE AND/OR DURING THE CONSTRUCTION OF THE EXCAVATION AND FURNISHED EXCAVATION TO ALLOW PROPER DRAINAGE IN AREA OF THE PROPOSED ROADWAY FACILITY.
- 3. PLACEMENT, MAINTENANCE, REMOVAL AND PROPER CLEAN-UP OF TEMPORARY EROSION CONTROL, SUCH AS EROSION CONTROL FENCE, HAY OR STRAW BALE DITCH CHECKS, RIPRAP DITCH CHECKS, TEMPORARY SEFDING. FTC.
- 4. PLACEMENT OF PERMANENT EROSION CONTROL, SUCH AS RIPRAP DITCH LINING, FILTER FABRIC FOR USE WITH RIPRAP, SEEDING, ETC.
- 5. FINAL GRADING, AND OTHER MISCELLANEOUS ITEMS.

AREA OF DISTURBED GROUND:

THE TOTAL AREA DISTURBED BY CONSTRUCTION ACTIVITIES IS APPROXIMATELY 1.5 ACRES.

CONTRACTOR CERTIFICATION STATEMENT

THIS CERTIFICATION STATEMENT IS PART OF THE STORM WATER POLLUTION PLAN FOR THE PROJECT DESCRIBED BELOW IN ACCORDANCE WITH NPDES PERMIT No. ILR10 _______, ISSUED BY THE ILLINO'S ENVIRONMENTAL PROTECTION AGENCY ON .

T.R. 128 BRIDGE CONSTRUCTION PROJECT DRY POINT ROAD DISTRICT SHELBY COUNTY

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

SIGNATURE	DATE
TITLE	
NAME OF FIRM	
STREET ADDRESS	
CITY, STATE, ZIP	
FHONE NUMBER	

NOTE: THE ABOVE BOXED IN AREA SHALL BE FILLED OUT BY THE CONTRACTOR AFTER THE AWARD OF THE CONTRACT TO OBTAIN THE REQUIRED NPDES PERMIT FROM IEPA. THIS IS A REQUIREMENT FOR THIS CONTRACT.

SOIL EROSION &
SEDIMENT CONTROL PLAN

T.R. 128 OVER MITCHELL CREEK

SEC. 99-05117-00-BR

SHELBY COUNTY

S.N. 087-3520 STA. 9+94.00

INTERNATIONAL ENGINEERING CONSULTANTS, INC.

ie internation

6420 SOUTH SIXTH STREET
SPRINGFIELD, ILLINOIS 62707
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FAX (217) 529-4543
IESPRINGFIELD@IE-CONSULTANTS.COM
WWW.IE-CONSULTANTS.COM

DESIGNED BY: G.B.M.

CHECKED BY: DRAWN BY: D.B.R. J.P.H.

BY: DATE: H. 10/20/04

SHEET 1 OF 2

ROUTE NO.	BECTION	COUNTY		TOTAL SHEETS	SHEET NO.
T.R.128	*	SHELBY		15	4
FED. ROAD DIST.	NO. 7	ILLINOIS	PED. AID PRI	JECT-	

*99-05117-00-BR

CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROLS

DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION (WHERE APPLICABLE):

- 1. THE AREA BETWEEN THE EXISTING AND PROPOSED RIGHT-OF-WAY/TEMPORARY EASEMENT BOUNDARIES AND LIMITS OF THE PROJECT WILL BE IMPROVED AND MANAGED FOR THE PURPOSES OF CONTROLLING EROSION WITHIN THE AREA, REDUCING WATER FLOW BY TEMPORARY DIVERSION AND MINIMIZING SILTATION INTO THE CONSTRUCTION ZONE, AND ESTABLISHING VEGETATIVE COVER WHICH WILL BECOME PERMANENT VEGETATION AND ACT AS AN EROSION BARRIER. WORK AT THE BEGINNING OF CONSTRUCTION WILL CONSIST
- (A) AREAS OF EXISTING VEGETATION (WOODS AND GRASSLANDS) OUTSIDE THE PROPOSED CONSTRUCTION SLOPE LIMITS SHALL BE IDENTIFIED FOR PRESERVING AND SHALL BE PROTECTED FROM MOWING, BRUSH CUTTING, TREE REMOVAL AND OTHER ACTIVITIES WHICH WOULD BE DETRIMENTAL TO THEIR MAINTENANCE
- (B) DEAD, DISEASED, OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER, ALONG WITH REQUIRED TREE REMOVAL.
 (C) AS SOON AS REASONABLE ACCESS IS AVAILABLE (SUCH AS TREES CLEARED) TO ALL LOCATIONS WHERE
- DITCH CHECKS, AND/OR EROSION CONTROL FENCE SHALL BE INSTALLED AS CALLED OUT IN THIS PLAN AND DIRECTED BY THE ENGINEER.
- (D) BARE AND SPARSELY VEGETATED GROUND IN HIGHLY ERODABLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDED AT THE BEGINNING OF CONSTRUCTION WHERE NO CONSTRUCTION ACTIVITIES ARE IMMEDIATELY EXPECTED AS STATED IN THE SPECIAL PROVISION "TEMPORARY EROSION
- (E) IMMEDIATELY AFTER TREE REMOVAL IS COMPLETED IN CERTAIN AREAS WHICH ARE HIGHLY ERODABLE AREAS AS DETERMINED BY THE ENGINEER, THE AREAS SHALL BE TEMPORARILY SEEDED WHERE NO CONSTRUCTION ACTIVITIES ARE IMMEDIATELY EXPECTED AS STATED IN THE SPECIAL PROVISION "TEMPORARY EROSION CONTROL SEEDING".
- (F) AT LOCATIONS WHERE A SIGNIFICANT AMOUNT OF WATER DRAINS INTO THE CONSTRUCTION ZONE, RIPRAP DITCH CHECKS WILL BE UTILIZED TO LOCALLY DIVERT WATER, REDUCE FLOW RATES, AND COLLECT OUTSIDE SILTATION INSIDE THE RIGHT-OF-WAY LINE. EROSION CONTROL ITEMS WILL NOT BE ALLOWED TO BE INSTALLED TO CAUSE FLOODING TO UPSTREAM PRIVATE PROPERTY WHICH COULD CAUSE CROP DAMAGES OR OTHER UNDESIREABLE CONDITIONS.
- (G) AT LOCATIONS WHERE WATER DRAINS AWAY FROM THE PROJECT, SEDIMENT BASINS, RIPRAP DITCH CHECKS, TEMPORARY EROSION CONTROL FENCE, OR TEMPORARY DITCH CHECKS SHALL BE USED.
- ESTABLISHMENT OF THESE TEMPORARY EROSION CONTROL MEASURES WILL HAVE ADDITIONAL BENEFITS TO THE PROJECT. DESIRABLE GRASS SEED WILL BECOME ESTABLISHED IN THESE AREAS AND WILL SPREAD SEEDS ONTO THE CONSTRUCTION SITE UNTIL PERMANENT SEEDING/MOWING AND OVERSEEDING CAN BE
- A THIRD BENEFIT OF THESE FILTER AREAS IS THAT THEY WILL BEGIN TO PROVIDE A SCREEN AND BUFFER. THEY WILL HELP PROTECT THE CONSTRUCTION SITE FROM WINDS AND EXCESS SUN AND MITIGATE CONSTRUCTION NOISE AND DUST.

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION (WHERE APPLICABLE):

- DURING ROADWAY CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION SLOPE LIMITS AS OUTLINED PREVIOUSLY HEREIN SHALL BE PROTECTED FROM DAMAGING EFFECTS OF CONSTRUCTION. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING (EXCEPT AS DESIGNATED ON THE PLANS OR DIRECTED BY THE ENGINEER), PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.
- (A) WITHIN THE CONSTRUCTION ZONE, CRITICAL AREAS WHICH HAVE HIGH FLOWS OF WATER AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION.
- (B) TOP SOIL AND EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN DAYS.
- (C) AS THE CONTRACTOR CONSTRUCTS A PORTION OF ROADWAY IN A FILL SECTION, HE/SHE SHALL FOLLOW THE FOLLOWING STEPS AS DIRECTED BY THE ENGINEER:
 - I. PLACE TEMPORARY EROSION CONTROL SYSTEMS AT LOCATIONS WHERE WATER LEAVES AND ENTERS THE CONSTRUCTION ZONE
- II. TEMPORARY SEED HIGHLY ERODABLE AREAS OUTSIDE THE CONSTRUCTION SLOPE LIMITS
- III. CONSTRUCT ROADSIDE DITCHES AND PROVIDE TEMPORARY EROSION CONTROL SYSTEMS
- IV. TEMPORARY DIVERT WATER AROUND PROPOSED CULVERT LOCATIONS

 V. BUILD NECESSARY EMBANKMENT AT CULVERT LOCATIONS AND THEN EXCAVATE AND PLACE CULVERT

SHAPING TO THE SLOPES

- VI. CONTINUE BUILDING UP THE EMBANKMENT TO THE PROPOSED GRADE WHILE AT THE SAME TIME PLACING PERMANENT EROSION CONTROL SUCH AS RIPRAP DITCH LINING AND CONDUCT FINAL
- (D) THE CONTRACTOR SHALL IMMEDIATELY FOLLOW MAJOR EARTH MOVING OPERATIONS WITH FINAL GRADING EQUIPMENT. AFTER THE MAJOR EARTH SPREAD OPERATION HAS MOVED TO A NEW LOCATION, FINAL GRADING SHALL BE COMPLETED WITHIN FOURTEEN DAYS. IF GRADING IS NOT COMPLETED WITHIN FOURTEEN DAYS, ALL MAJOR EARTH MOVING OPERATIONS WILL BE STOPPED. AS DIRECTED BY THE ENGINEER, UNTIL DISTURBED AREAS ARE FINAL GRADED AND SEEDED.
- (E) EXCAVATED AREAS AND EMBANKMENTS SHALL BE PERMANENTLY SEEDED WHEN FINAL GRADED. NOT, THEY SHALL BE TEMPORARILY SEEDED AS STATED IN THE SPECIAL PROVISION "TEMPORARY EROSION CONTROL SEEDING".

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION, (WHERE APPLICABLE): (CONT'D.)

- (F) CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUN-OFF IN COMPLIANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
- (G) THE RESIDENT ENGINEER SHALL INSPECT THE PROJECT DAILY DURING ACTIVITIES AND WEEKLY OR AFTER LARGE RAINS DURING THE WINTER SHUTDOWN PERIOD. 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 CONTROL WORK IS NECESSARY.
- (H) SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- (I) THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AFTER USE IS NO LONGER NEEDED OR NO LONGER FUNCTIONING. THE COSTS OF THIS REMOVAL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE TEMPORARY EROSION CONTROL SYSTEM. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING (WHERE APPLICABLE):

- TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED WITH A PROPER STAND.
- ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP, AND DISTURBED TURF RESEEDED. TEMPORARY RIPRAP DITCH CHECKS WILL BE ALLOWED TO REMAIN IN PLACE WHERE APPROVED BY THE

MAINTENANCE AFTER CONSTRUCTION (WHERE APPLICABLE):

- CONSTRUCTION IS COMPLETE AFTER ACCEPTANCE IS RECEIVED AT THE FINAL INSPECTION.
- 2. AREAS WILL BE INSPECTED ON A REGULAR BASIS BY THE SHELBY COUNTY HIGHWAY DEPARTMENT.
- MAINTENANCE CREWS WILL PERFORM REGULAR MOWINGS TO AID IN KEEPING WEEDS DOWN AND ESTABLISHING A GOOD ROADSIDE SEED STAND.
- MAINTENANCE CREWS WILL ALSO AID IN ANY DITCH LINING MAINTENANCE OR IN ANY DRAINAGE
- 5. ALL MAINTENANCE WILL BE CONDUCTED AT TIMES WHEN WEATHER CONDITIONS WILL NOT CAUSE SITE DAMAGE.

DOCUMENTATION

- A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, 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 4.B. SHALL BE MADE AND RETAINED AS PART OF THE PLAN FOR AT LEAST THREE YEARS AFTER THE DATE OF INSPECTION. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART VI.G OF THE GENERAL PERMIT.
- 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 OR RESIDENT TECHNICIAN SHALL COMPLETE AND FILE AN "INCIDENT OF NONCOMPLIANCE (ION)" REPORT FOR THE IDENTIFIED VIOLATION. THE RESIDENT ENGINEER OR RESIDENT TECHNICIAN SHALL USE FORMS PROVIDED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AND SHALL INCLUDE SPECIFIC INFORMATION ON THE 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 REPORT OF NONCOMPLIANCE SHALL BE MAILED TO THE FOLLOWING ADDRESS:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF WATER POLLUTION CONTROL COMPLIANCE ASSURANCE SECTION #19 POST OFFICE BOX 19276 SPRINGFIELD, IL 62794-9276

SOIL EROSION & SEDIMENT CONTROL PLAN T.R. 128 OVER MITCHELL CREEK SEC. 99-05117-00-BR SHELBY COUNTY S.N. 087-3520 STA. 9+94.00

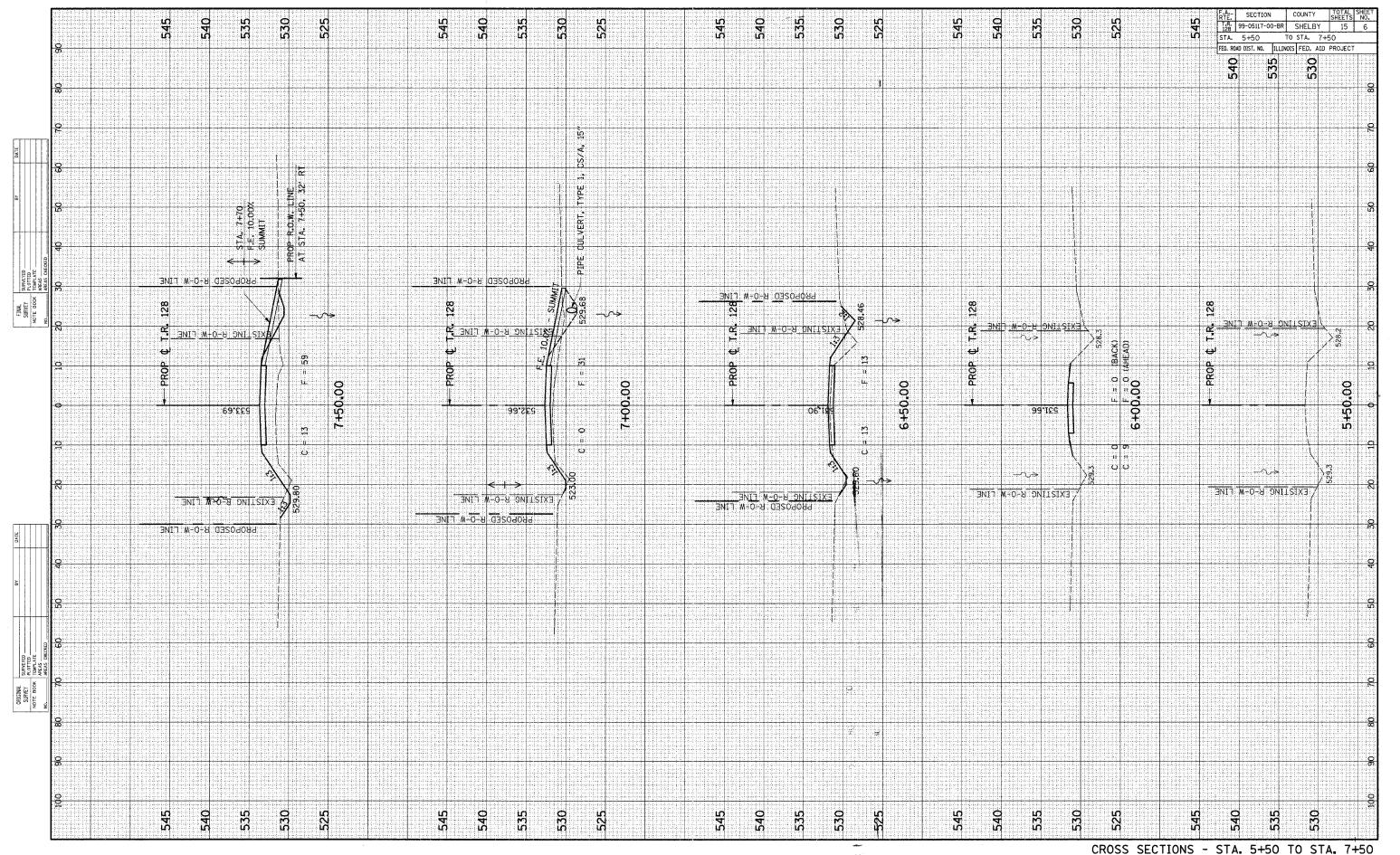
6420 SOUTH SIXTH STREET SPRINGFIELD, ILLINOIS 62707 TEL. (217) 529-8027 FAX (217) 529-4543 IESPRINGFIELD@IE-CONSULTANTS.COM WWW.IE-CONSULTANTS.COM

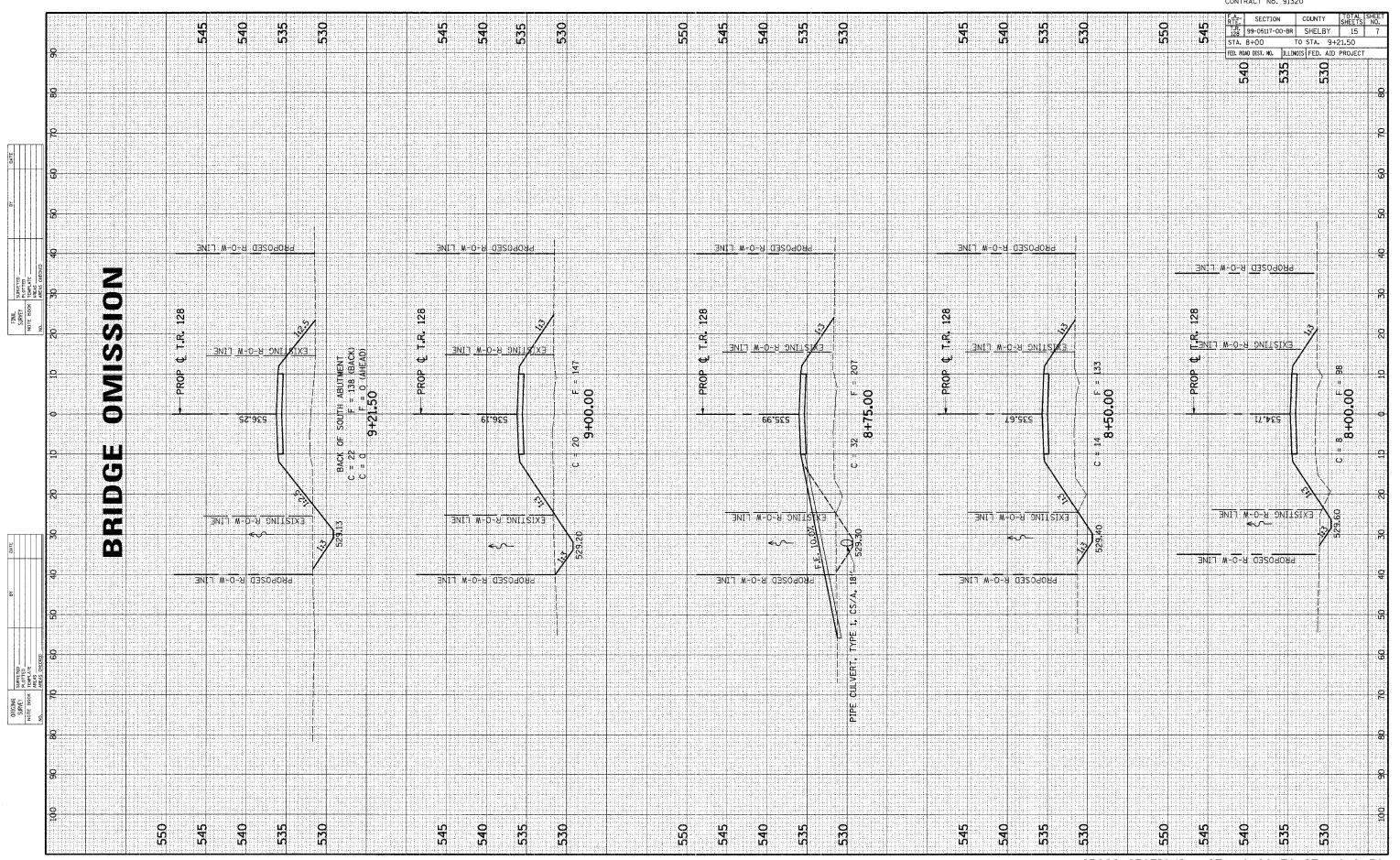
G.B.M.D.B.R.

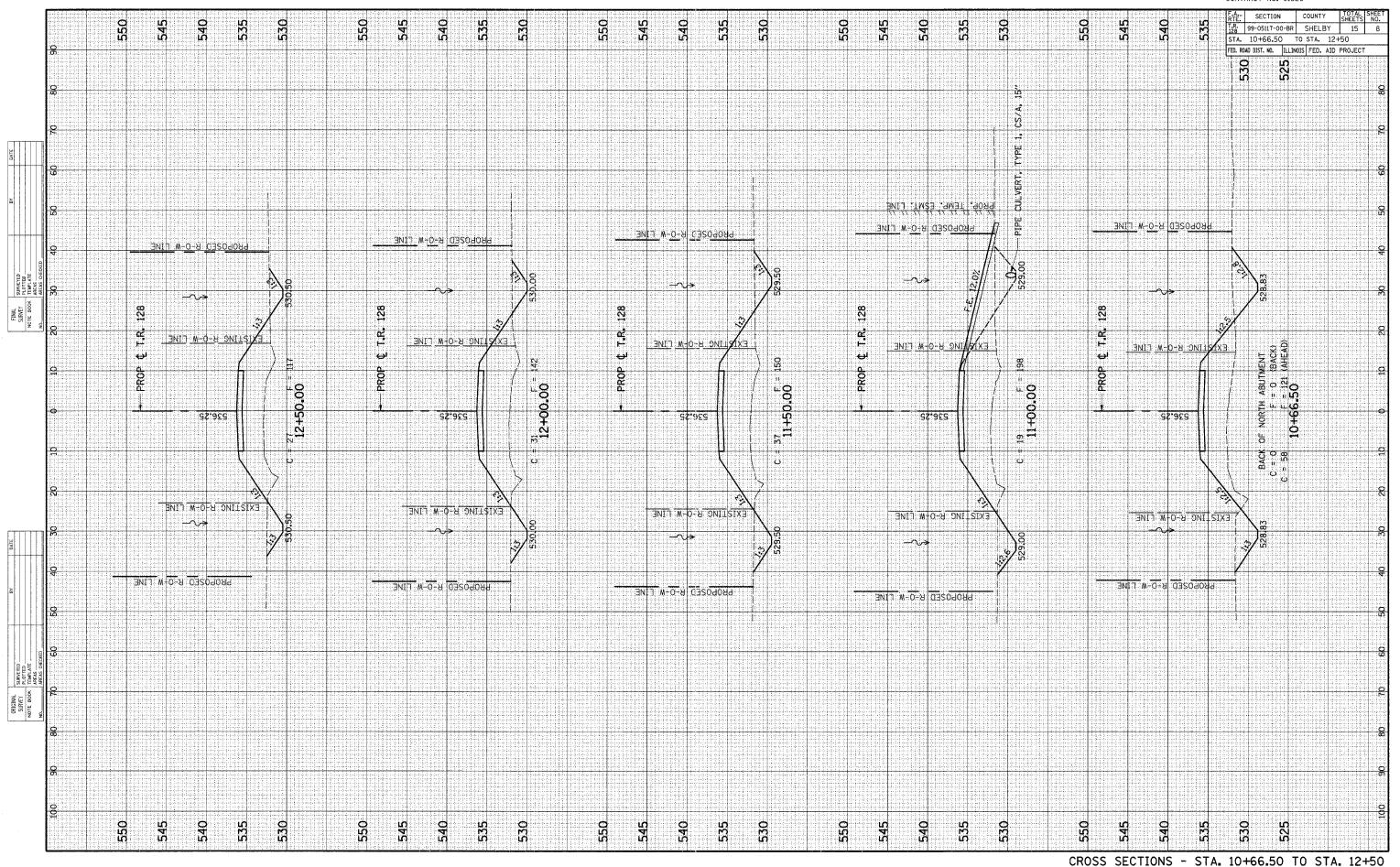
consultants

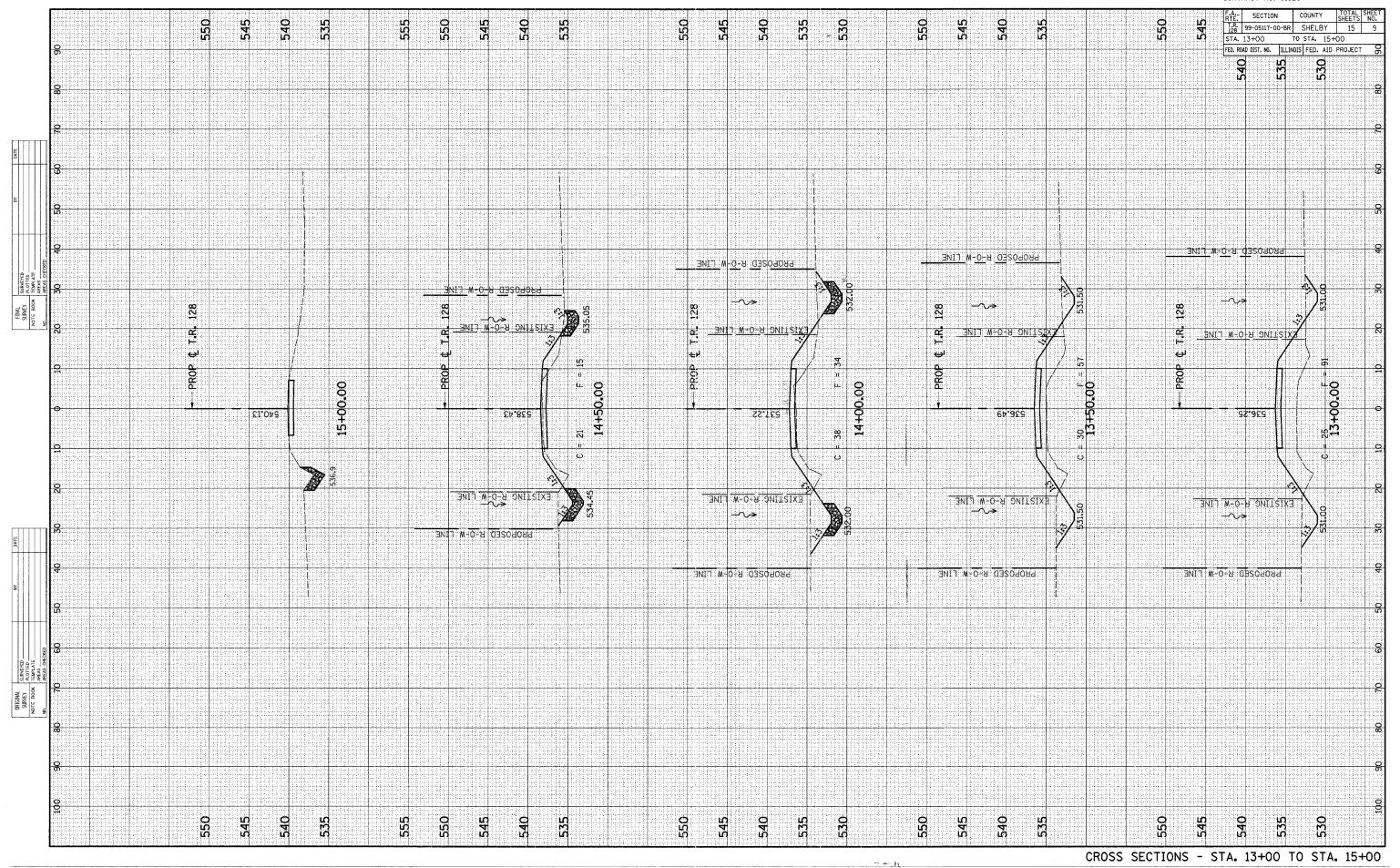
SHEET 2 OF 2

PLAN AND PROFILE T.R. 128 - STA. 5+00 TO STA. 15+00







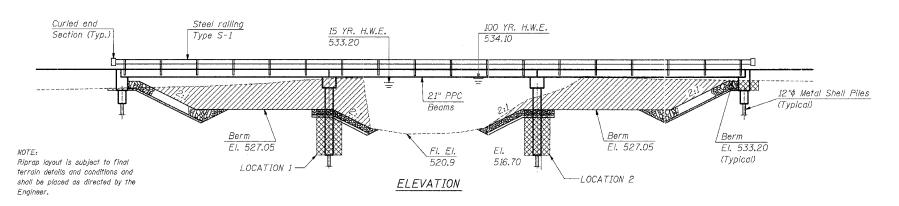


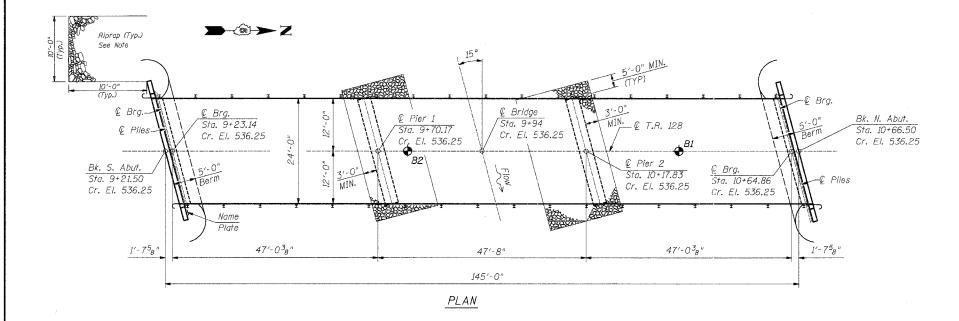
B.M. -Chiseled "X" on Top of East Girder on North End of Bridge. Elev. 534.78

EXISTING STRUCTURE: SN 087-3330, One Span Bridge 51' Back to Back of Abutments.

Deck Width is 13'-2". Superstructure is made up of Timber Deck
on 2-27" Deep Steel Thru-Girders and 7-6" Deep Steel Stringers.

Steel Pipe Handrail is present at both sides. Abutments are made
up of Closed Timber Walls with Timber Piling. Wingwalls are Timber.
Salvageable Material shall become the property of Dry Point Township
and or Shelby County.





2.05% V.C. 100° PROFILE GRADE 0.000% V.C. 250° 7.00° 2.00°

WATERWAY INFORMATION

MAILINIAI IN OI	IMPAIL	<u> </u>
Drainage Area	36.9	Sq.Mi.
Required Opening (15yr.) ——	893	Sq.Ft.
Provided Opening ————	893	Sq.Ft.
Present Opening ————	330	Sq.Ft.
15 yr. Discharge ————	3977	cfs
100 yr. Discharge	6270	cfs
Created Head (15yr.) ————	<.50	Ft.
Created Head (100yr.) ———	<1.0	Ft.

DESIGN STRESSES

Prec	ast	Unit		Cast	- in	-Place U	Init
f'c	=	5,000	psi	f'c	=	3,500	psi
f'ci	z	4,000	psl	f's	=	. 60,000	psi
f's	=	270,00	0 psl	n	=	9	
f'si	=	189,000) psi				
LOAL	DΙΝ	9 HS 20)				
DESI	<i>IGN</i>	SPECIF	ICATIO!	٧:			
AAS	470	1996 S	tandard	Specific	atio	ons for i	Highwa
Bridg	ies	and Inte	erim Spe	cificatio	ns	through	1998.
FUTU	RE	WEARI	IG SURF	ACE:			

ROUTE NO. SECTION COUNTY TOTAL SHEETS NO. TR 128 99-05117- SHELBY 15 10

SHEET 1 of 6

GENERAL NOTES

— Channel Excavation

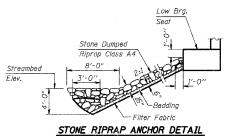
Structure Excavation

– Riprap, Special

See Proposal for Boring Data
The Contractor shall drive one steel test pile at each abutment and each pier as directed by the Engineer before ordering the

mainaer or the phes.

Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60.



MITCHELL CREEK
BUILT 200_ BY
SHELBY COUNTY
SEC. 99-05117-00-BR
TR 128 STA. 9+94.00
STR. NO. 087-3520 LOADING HS 20

NAME PLATE
(See Std. 515001)

BILL OF MATERIAL

DIEL	Or MATE	THIAL		
ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu. Yd.		154	154
Concrete Structures	Cu. Yd.		89.8	89.8
Reinforcement Bars	Pound		7600	7600
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	3426		3426
Steel Railing, Type S-1	Foot	289		289
Furnishing Metal Pile Shell, 12"	Foot		560	560
Driving & Fill Shells	Foot		560	560
Test Pile Metal Shells	Each		4	4
Concrete Encasement	Cu. Yd.		2.2	2.2
Name Plates	Each		1	1
Removal of Existing Structures	Each	1		1
Channel Excavation	Cu. Ft.		1010	1010
Stone Dumped Riprap, Class A4	Ton		354	354 *
Filter Fabric	Sq. Yd.		389	389 *
Underwater Structure Excavation				
Protection Location 1	Each		1	1
Underwater Structure Excavation				
Protection Location 2	Each		1	1

* Quantity at Bridge Only.

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

Expires 11-30-2006

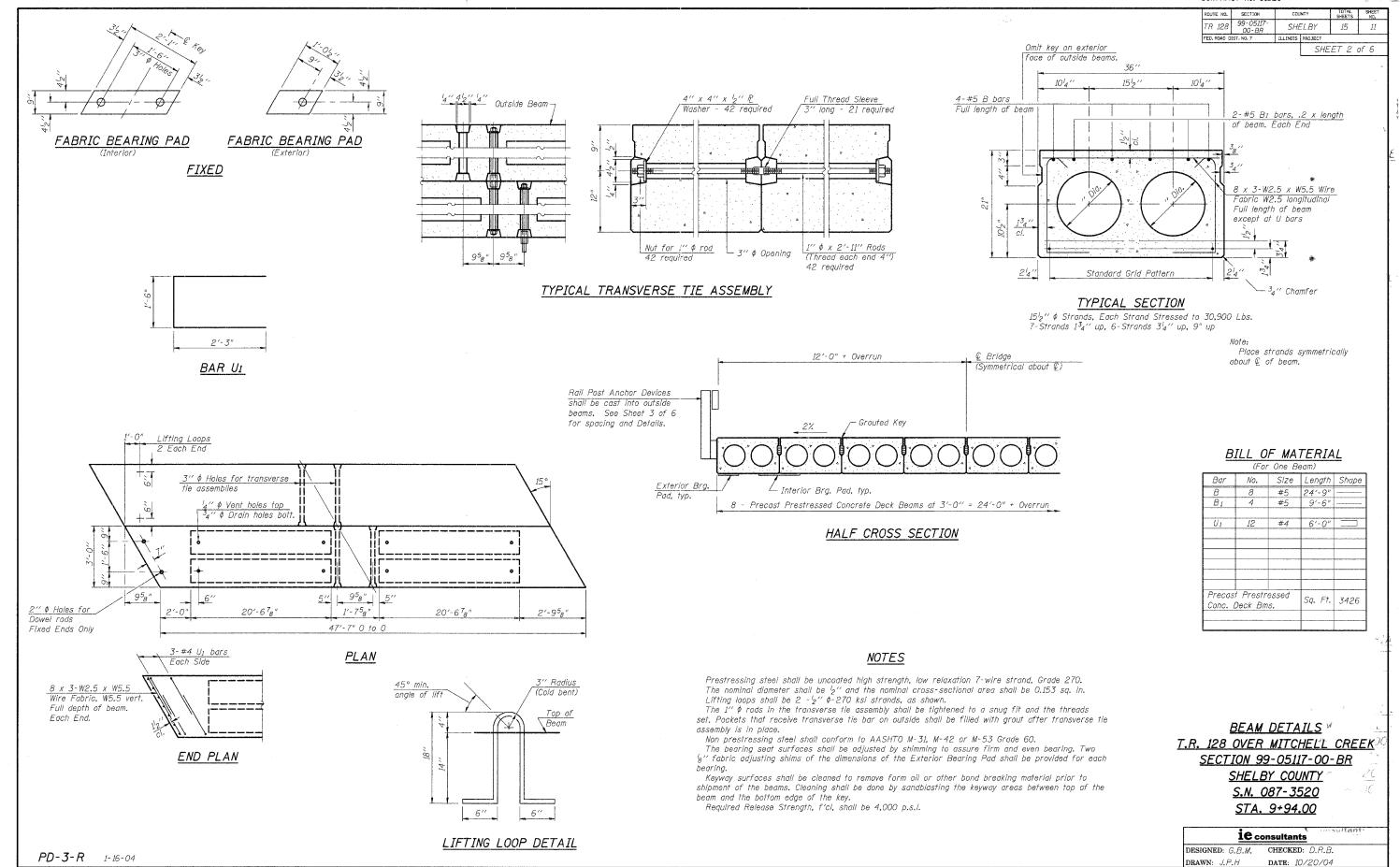
David Booher, Illinois S.E. 081-004775

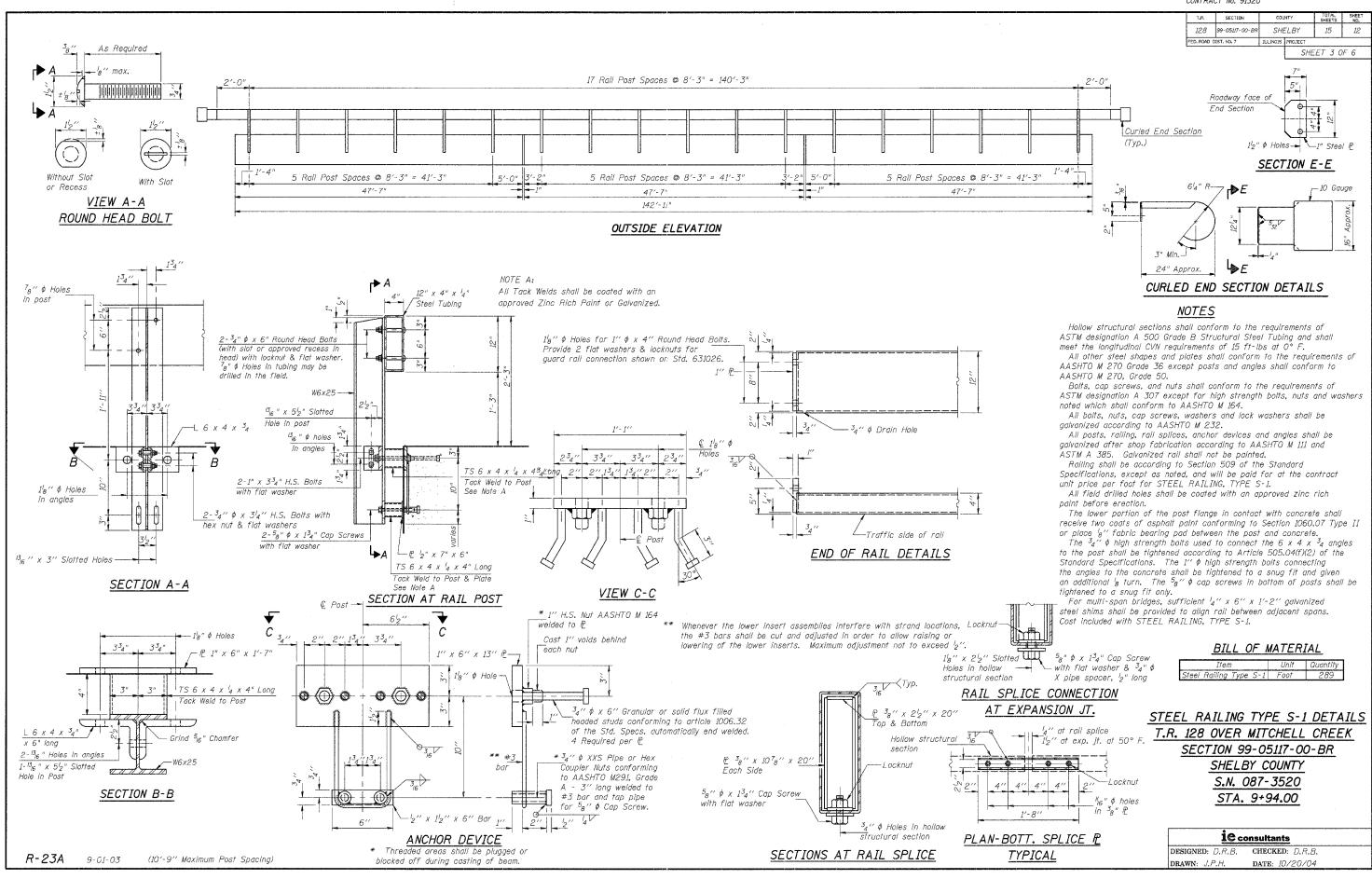
P.M.

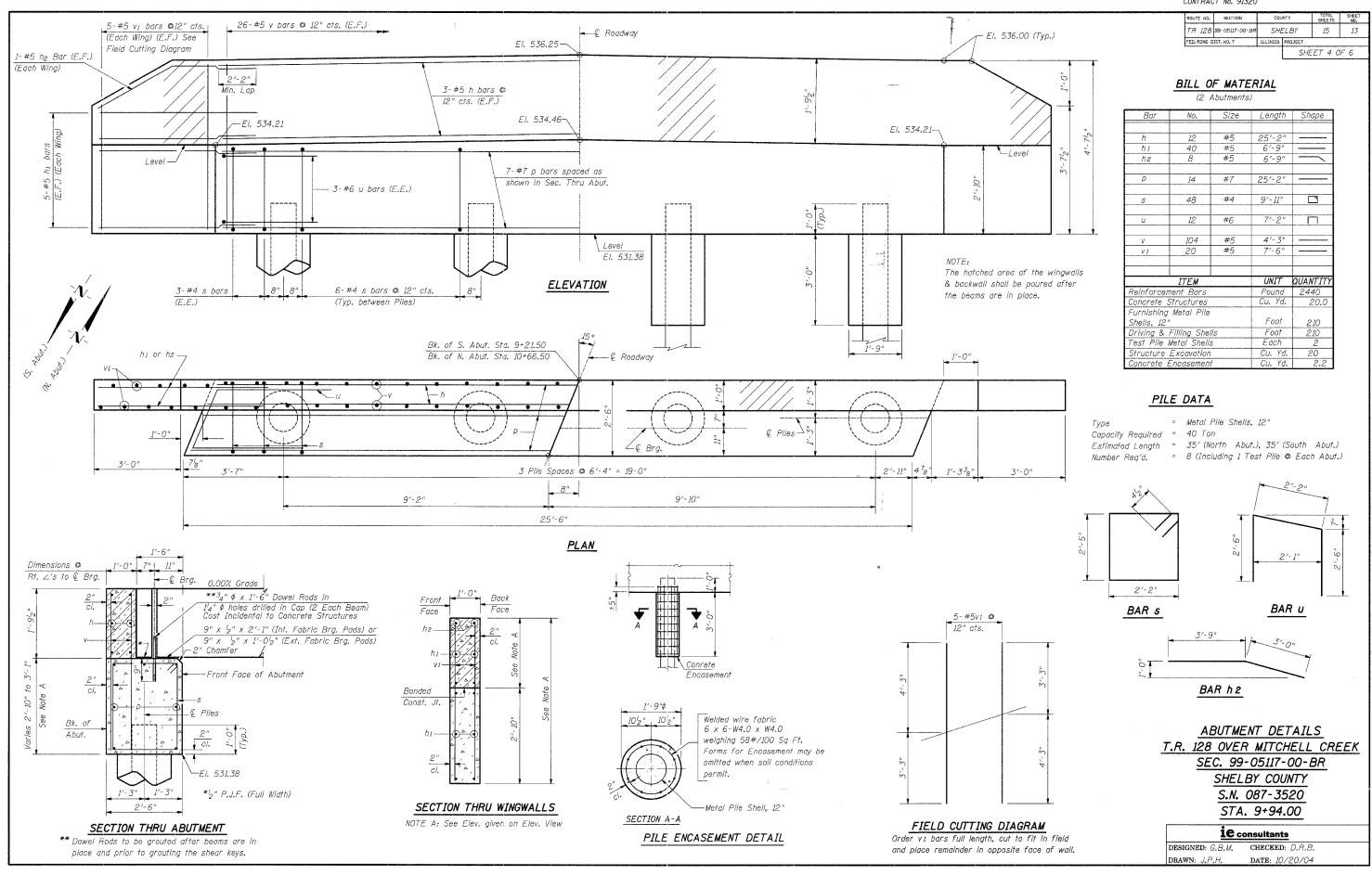
GENERAL PLAN & ELEVATION
T.R. 128 OVER MITCHELL CREEK
SECTION 99-05117-00-BR
SHELBY COUNTY
S.N. 087-3520
STA. 9+94.00

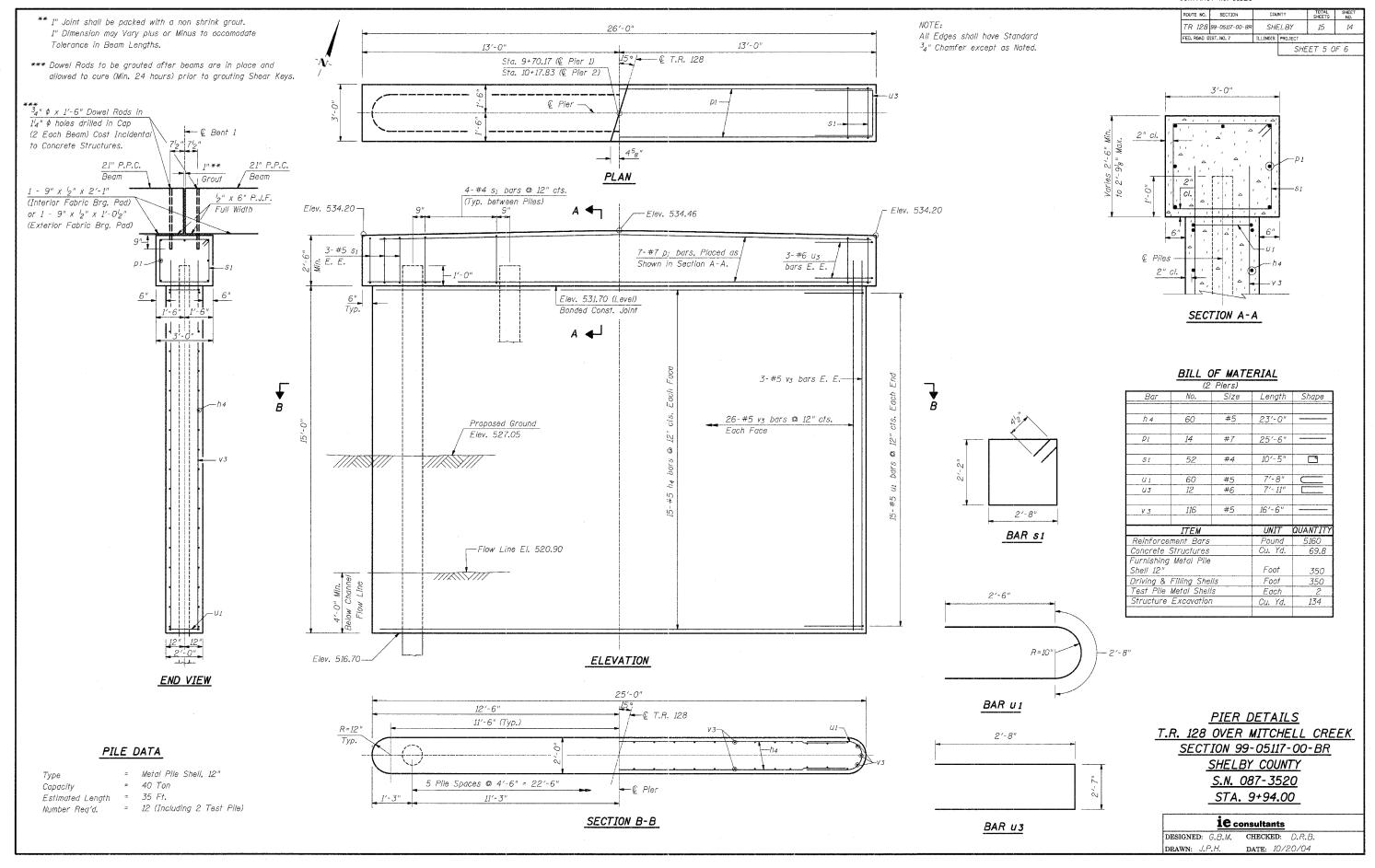
ie。	onsultants
DESIGNED: G.B.M.	CHECKED: D.R.B.
 DRAWN: J.P.H.	DATE: 10/20/04

LOCATION MAP









DRAWN: THW

DATE: 12/22/04