SECTION COUNTY SHEETS 05-00259-00-BR SHELBY 19 1 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** PLANS FOR PROPOSED BRIDGE REPLACEMENT AND REHABILITATION PROGRAM

COUNTY HIGHWAY 7

SECTION 05-00259-00-BR

PRAIRIE ROAD DISTRICT

SHELBY COUNTY

STRUCTURE NO 087-3550

PROJECT NO. BROS-173 (148)

R-5-E 3RD P.M.

JOB NO C-97- 032-07

R-4-E 3RD P.M.

INDEX OF DRAWINGS

- COVER SHEET
- SCHEDULE OF QUANTITIES & SUMMARY OF QUANTITIES
- GENERAL NOTES, TYPICAL SECTIONS AND
- ENTRANCE DETAILS SOIL EROSION AND SEDIMENT CONTROL PLAN
- PLAN & PROFILE
- STATION CROSS SECTIONS
- 12-19 BRIDGE PLANS

REQUIRED HIGHWAY STANDARDS

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS 000001-04

280001-03 TEMPORARY EROSION CONTROL SYSTEMS

NAME PLATE FOR BRIDGES 515001-02

METAL END SECTIONS FOR PIPE CULVERTS 542401

SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS 630301-04

TRAFFIC BARRIER TERMINAL, TYPE 5 631026-03

REFLECTOR AND TERMINAL MARKER PLACEMENT 635006-02

635011-01 REFLECTOR MARKER AND MOUNTING DETAILS RIGHT OF WAY MARKERS

666001 702001-06

TRAFFIC CONTROL DEVICES

MAILBOX TURNOUT FOR LOCAL ROADS BIR 24-1 BLR 21-6

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES

FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

EXISTING STRUCTURE NO. 087-3339

THREE SPAN BRIDGE WITH ASPHALT DECK SUPPORTED BY STEEL I-BEAMS WITH STEEL RAILINGS, TIMBER PIERS, TIMBER ABUTMENT WITH TIMBER WING WALLS ON THE EAST END, AND CONCRETE ABUTMENT ON THE WEST END.

LENGTH = 138' WIDTH = 19'

PROJECT BEGINS

STA. 4+50

STA. 9+80 - SPECIAL BRIDGE DESIGN

THREE SPAN 27" P.P.C. DECK BEAM BRIDGE 160' BACK TO BACK ABUTMENTS 24'-0' CLEAR WIDTH. SKEW = 20° FW RT PILE BENT ABUTMENTS AND PIERS STRUCTURE NO. 087-3550

PROJECT ENDS

STA. 14+75

LOCATION MAP

NET LENGTH OF SECTION = 1025.00 FEET = 0.19 MILES

CURRENT A.D.T. = 275 DESIGN SPEED 30 MPH

<u>/· 30-07</u> Illinois P.E. 062-043769 Expires 11-30-2007

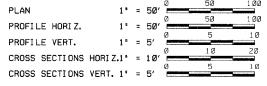
UTILITY COMPANIES

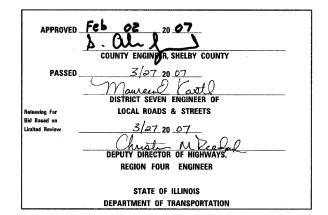
CONSOLIDATED COMMUNICATION MR. GERRY MEYERS 121 SOUTH 17th MATOON, ILLINOIS 61938 (217) 235-9971

SHELBY ELECTRIC COOPERATIVE MR. JIM MATLOCK P.O. BOX 560 SHELBYVILLE, ILLINOIS 62565 (217) 774-3986

AMEREN CIPS MR. CURT FISHER 911 S. NINTH STREET MATTOON, ILLINOIS 61938 (888) 789-2477

SCALES





consultants

e-mail: iespringfield@i 481 W. Boughton Road - Suite 301

IE Consultants, Inc. 6420 South Sixth Street Road

> Bolingbrook, Illinois 60440 Tel: (630) 759–3853 Fax: (630) 759-4275

CONTRACT NO.

95498

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

APPROXIMATE SCALE : 1" = 1 MILE FUNCTIONAL CLASSIFICATION: RURAL MINOR COLLECTOR

Ľ	ROUTE	NO.	SECTION	con	NTY	TOTAL SHEETS	SHEET NO.
	СН	CH 7 05-00259-00-BR		SHELBY		19	2

GUARDRAIL SCHEDULE									
RT/LT	STA.	то	STA.		TRAFFIC BARRIER TERMINAL, TYPE 5A	GUARDRAIL REFLECTORS	TERMINAL MARKER DIRECT APPLIED		
				EACH	EACH	EACH	EACH		
LT	8+33.13	TO	8+53.13	1		1	. 1		
LT	10+68.13	то	11+18.13	1		1	1		
RT	8+41.87	ТО	8+91.87	1		1	1		
RT	10+76.87	TO	11+26.87	1		1	1		
LT	8+53.13	TO	8+93.63		1	1			
LT	10+55.63	то	10+68.13		1	1			
RŤ	8+91.87	TO	9+04.37		1	1			
RT	10+64.37	TO	10+76.87		1	1			
		T				1			
TOTALS				4	4	8	4		

PERIME	TER ER	OSION I	BARRIER	SCHEDULE
				PERIMETER
			9000	EROSION
STA.	LT/RT	STA.	LT/RT	BARRIER
			and the same of th	(FOOT)
8+40	LT	9+00	LT	100
10+00	LT	10+25	RT	140
10+00	LT	13+00	LT	300
10+25	RT	11+00	RT	75
	TOTAL	615		

TEMPORARY EROSION CONTROL SCHEDULE							
			TEMP	INLET			
			DITCH	& PIPE			
STA.	LT/RT	OFFSET	CHECK	PROTECTION			
		(FOOT)	(EACH)	(EACH)			
5+29	RT	19.70		1			
6+18	RT	22.00		1			
9+00	LT	39.80	1				
9+00	RT	22.00	1				
10+60	RT	52.88	1				
14+50	LT	15.22	1				
12+72	RT	25.00		1			
	TOTAL 4 3						

TREE REMOVAL SCHEDULE							
STA.	LT/RT	STA.	LT/RT	ACRES			
5+40	LT	13+25	LT	. 1.1			
6+29	RT	11+96	RT	1.1			
TOTAL 2.2							

FURNISH & ERECTING RIGHT-OF-WAY MARKERS							
STA.	LT/RT	OFFSET (FOOT)	R-O-W MARKERS EACH				
4+50	LT	20.36	1				
4+50	RT	24.64	1				
6+28.65	LT	70.00	1				
6+28.65	RT	50.00	1				
7+00	RT	46.77	1				
11+26.03	LT	70.00	1				
13+24.54	LT	24.45	1				
		TOTAL	7				

* SEE SPECIAL PROVISONS

D SPECIALTY ITEMS

ESTIMATED QUANTITIES

TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)

FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

SUMMARY OF QUANTITIES

TRÉE, QUERCUS ALBA (WHITE OAK), 2" CALIPER,

TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER,

TREE, QUERCUS IMBRICARIA (SHINGLE OAK), 2" CALIPER,

TREE, QUERCUS MUEHLENBERGII (CHINKAPIN OAK), 2" CALIPER,

UNIT

EACH

EACH

EACH

EACH

ACRE

CU. YD.

CU. YD.

ACRE

POUND

POUND

POUND

ACRE

POUND

EACH

FOOT

EACH

TON

TON

SQ. YD.

SQ. YD.

TON

TON

EACH

CU. YD.

CU. YD.

CU. YD.

SQ. FT.

POUND

FOOT

FOOT

FOOT

EACH

EACH

EACH

FOOT

EACH

FOOT

EACH

EACH

EACH

CAL. MO.

EACH

EACH

LS

EACH

EACH

EACH

QUANTITY

2. 2

185

2.1

189

189

189

2.1

480

615

465

418

44

2.115

1,049

157

9.0

3785

9,650

158.0

95.0

18

320

647

72

124.7

6, 149

ITEM

BALLED AND BURLAPPED

BALLED AND BURLAPPED

BALLED AND BURLAPPED

BALLED AND BURLAPPED

TREE REMOVAL, ACRES

EARTH EXCAVATION

SEEDING, CLASS 2

MULCH METHOD 2

CHANNEL EXCAVATION

TEMPORARY DITCH CHECKS

STONE RIPRAP, CLASS A4

STONE RIPRAP DITCH

STRUCTURE EXCAVATION

CONCRETE STRUCTURES

CONCRETE ENCASEMENT

BEAMS (27" DEPTH)

DRIVING PILES

PILE SHOES

NAME PLATES

REINFORCEMENT BARS

STEEL RAILING, TYPE S1

TEST PILES STEEL HP 10X42

OR ALUMINUM CULVERT PIPE 15"

PIPE UNDERDRAIN FOR STRUCTURES 6"

TRAFFIC BARRIER TERMINAL, TYPE 5A

ENGINEER'S FIELD OFFICE, TYPE B

TERMINAL MARKER - DIRECT APPLIED

UNDERWATER STRUCTURE EXCAVATION

UNDERWATER STRUCTURE EXCAVATION

METAL END SECTIONS 15"

GUARDRAIL REFLECTORS

PROTECTION, LOCATION 1

PROTECTION, LOCATION 2

SETTING PILES IN ROCK

MOBILIZATION

FILTER FABRIC

PERIMETER EROSION BARRIER

INLET AND PIPE PROTECTION

PROCESSING MODIFIED SOIL, 12"

AGGREGATE BASE COURSE, TYPE A

REMOVAL OF EXISTING STRUCTURES

PRECAST PRESTRESSED CONCRETE DECK

FURNISHING STEEL H PILES 10X42

PIPE CULVERTS, TYPE 1, CORRUGATED STEEL

NITROGEN FERTILIZER NUTRIENTS

PHOSPHORUS FERTILIZER NUTRIENTS

POTASSIUM FERTILIZER NUTRIENTS

TEMPORARY EROSION CONTROL SEEDING

CODE NO.

△A2006416

△ A2006616

△ A2006816

△ A2007116

20100500

20200100

* 20300100

△25000400

△25000500

△25000600

△28000250

28000300

28000400

28000500

28100207

28200200

30200650

30201500

50100100

50200100

50300225

50300280

* 50400505

* 50800105

50900205

51201400

51202305

51203400

51204650

51500100

* 54200640

* 54215550

* 60109582

66600105

67000500

△* 63100075

△* 63100167

△ * 78200400

△ * 78201000

* 67100100

* X5020501

* X5020502

* Z0065000

* 35100100

* 28102600

△* 25100115

△* 25000200

ITEM	RATE	OF APPLICATION		QUANTITIES
SEEDING CLASS 2	=	ART. 250.07	=	2.1 ACRES
NITROGEN FERTILIZER NUTRIENTS	. =	90 LBS./ACRE	=	189 POUNDS
PHOSPHORUS FERTILIZER NUTRIENTS	=	90 LBS./ACRE	=	189 POUNDS
POTASSIUM FERTILIZER NUTRIENTS	=	90 LBS./ACRE	Ξ	189 POUNDS
MULCH METHOD 2			=	2.1 ACRES
LIME	=	0.0208 TONS/SY	=	44 TONS

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.

EARTHWORK SUMMARY

= 6,149 CU. YD. EARTH EXCAVATION CHANNEL EXCAVATION = 185 CU. YD.

TOTAL FILL REQ'D. = 2671 CU. YD. (IN PLACE)

ESTIMATE OF FILL FROM EARTH EX. = 2671 CU. YD. ESTIMATE OF FILL FROM CHANNEL EX. = 0 CU. YD. FURNISHED EXCAVATION REQUIRED = 0 CU. YD.

> 1e consultants DESIGNED: C.M.V. CHECKED: D.R.B. RAWN: T.H.W. DATE: DECEMBER 2006

CONTRACT NO. 95498

ROUTE	NG.	SECTION	COL	NTY	TOTAL SHEETS	SHEET NO.
СН	7	05-00259-00-BR	SHE	ELBY	19	3
FED, RO	40 C	IST. NO.	ILLINOIS	PROJECT		

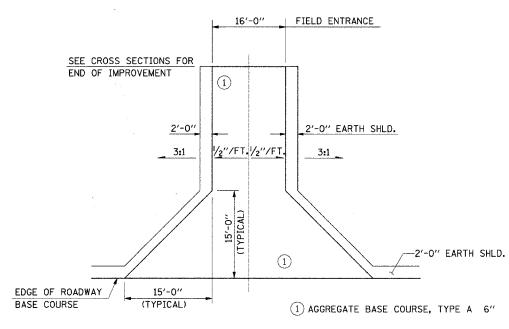
WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

GENERAL NOTES

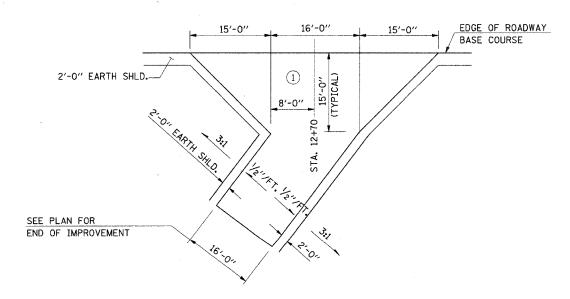
THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER IN REGARD TO THE EXACT LENGTHS OF PIPE CULVERTS PRIOR TO ORDERING THESE ITEMS.

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

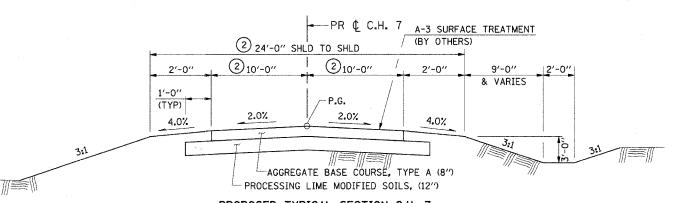
ALL DISTURBED EARTH SURFACES WITHIN THE LIMITS OF THE RIGHT-OF-WAY AND EASEMENTS SHALL BE SEEDED AS DIRECTED BY THE ENGINEER.



FIELD ENTRANCE DETAIL
STA. 5+50 & STA. 6+38



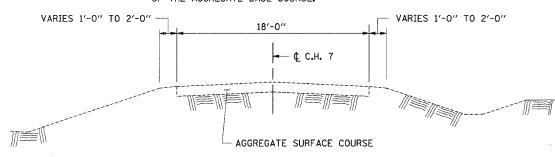
FIELD ENTRANCE DETAIL
STA. 12+50



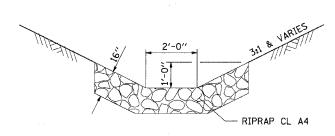
PROPOSED TYPICAL SECTION C.H. 7 LOCAL ROAD DESIGN A.D.T. = 275 STA. 4+50 TO STA. 14+75

(2) SEE PLAN & PROFILE SHEET FOR TRANSITION.

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



EXISTING TYPICAL CROSS SECTION



RIP-RAP DITCH

(NO BEDDING OR FILTER FABRIC) LEFT STA. 6+00 TO LEFT STA. 9+00 RIGHT STA. 6+66.71 TO RIGHT STA. 9+00

DESI GNED: C.M.V. CHECKED: D.R.B.
DRAWN: T.H.W. DATE: DECEMBER 2006

C.H. 7 BRIDGE CONSTRUCTION PROJECT PRAIRIE 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.

S. OL L

02-01-07

COUNTY ENGINEER

(TITLE)

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 SHOWN 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

ITEM	SYMBOL
TEMPORARY DITCH CHECKS (HAY OR STRAW BALE DITCH CHECKS OR APPROVED SUBSTITUTION	
PERIMETER EROSION BARRIER	
EROSION CONTROL BLANKET	
DIRECTION OF OVERLAND FLOW	$-\sim \Rightarrow$
INLET AND PIPE PROTECTION	\boxtimes

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.

CONTRACT NO. 95498

ROUTE	NO.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.
СН	7	05-00259-00-BR	SHE	ELBY	19	4
FEO. F	FED. ROAD DIST. NO.			PROJECT		
				SHEET	1 of 2	

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

 THE PROPOSED IMPROVEMENT WILL CONSIST OF RECONSTRUCTION OF C.H. 7 FROM STA. 4+50 TO STA. 14+75. ROADWAY WORK WILL BE COMPLETED WITH NECESSARY SEEDING THROUGHOUT.

THE PROJECT MEASURES APPROXIMATELY 1025 FEET OR 0.19 MILE OF THE C.H. 7 ALIGNMENT.

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

1. SEE SPECIAL PROVISIONS FOR SUGGESTED CONSTRUCTION STAGING PLAN AND NOTES.

AREA OF DISTURBED GROUND:

THE TOTAL AREA DISTURBED BY CONSTRUCTION ACTIVITIES IS APPROXIMATELY 1.6 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. ILRIO ______, ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY ON ______.

C.H. 7 BRIDGE CONSTRUCTION PROJECT PRAIRIE 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	
PHONE 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
C.H. 7 OVER RICHLAND CREEK
SEC. 05-00259-00-BR
SHELBY COUNTY
S.N. 087-3550

DESIGNED: C.M.V. CHECKED: D.R.B.
DRAWN: T.H.W. DATE: DECEMBER 2006

STA. 9+80

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 THE FOLLOWING:
- (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 AND DEVELOPMENT.
- (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, 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
- 3. 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):

- 1. DURING ROADWAY CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION SLOPE LIMITS AS OUTLINED PREVIOUS 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
- 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
- BUILD NECESSARY EMBANKMENT AT CULVERT LOCATIONS AND THEN EXCAVATE AND PLACE CULVERT
- VI. CONTINUE BUILDING UP THE EMBANKMENT TO THE PROPOSED GRADE WHILE AT THE SAME TIME
 PLACE PERMANENT EROSION CONTROL SUCH AS RIPRAP DITCH LINING AND CONDUCT FINAL SHAPING TO THE
- (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".

CONTRACT NO. 95498

 ROUTE	ROUTE NO. SECTION		COUNTY		TOTAL SHEETS	SHEET NO.
СН	7	05-00259-00-BR	SHE	LBY	19	5
FED. ROAD DIST. NO.			ILLINOIS	PROJECT		
				SHEET	2 of 2	

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):

- 1. CONSTRUCTION IS COMPLETE AFTER ACCEPTANCE IS RECEIVED AT THE FINAL INSPECTION.
- 2. AREAS WILL BE INSPECTED ON A REGULAR BASIS BY SHELBY COUNTY HIGHWAY DEPARTMENT.
- 3. MAINTENANCE CREWS WILL PERFORM REGULAR MOWINGS TO AID IN KEEPING WEEDS DOWN AND ESTABLISHING A GOOD ROADSIDE SEED STAND.
- 4. 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

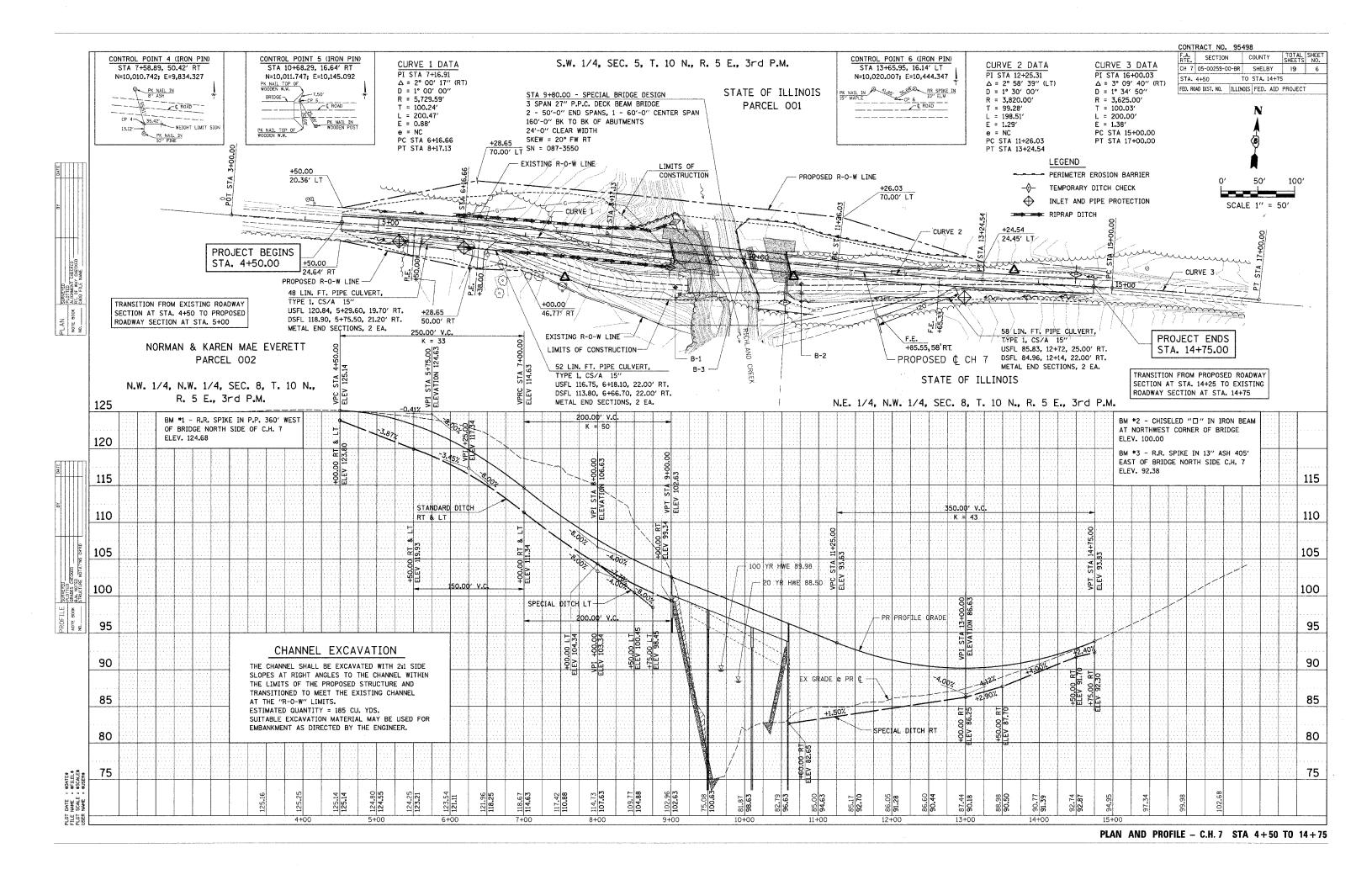
DOCUMENTATION

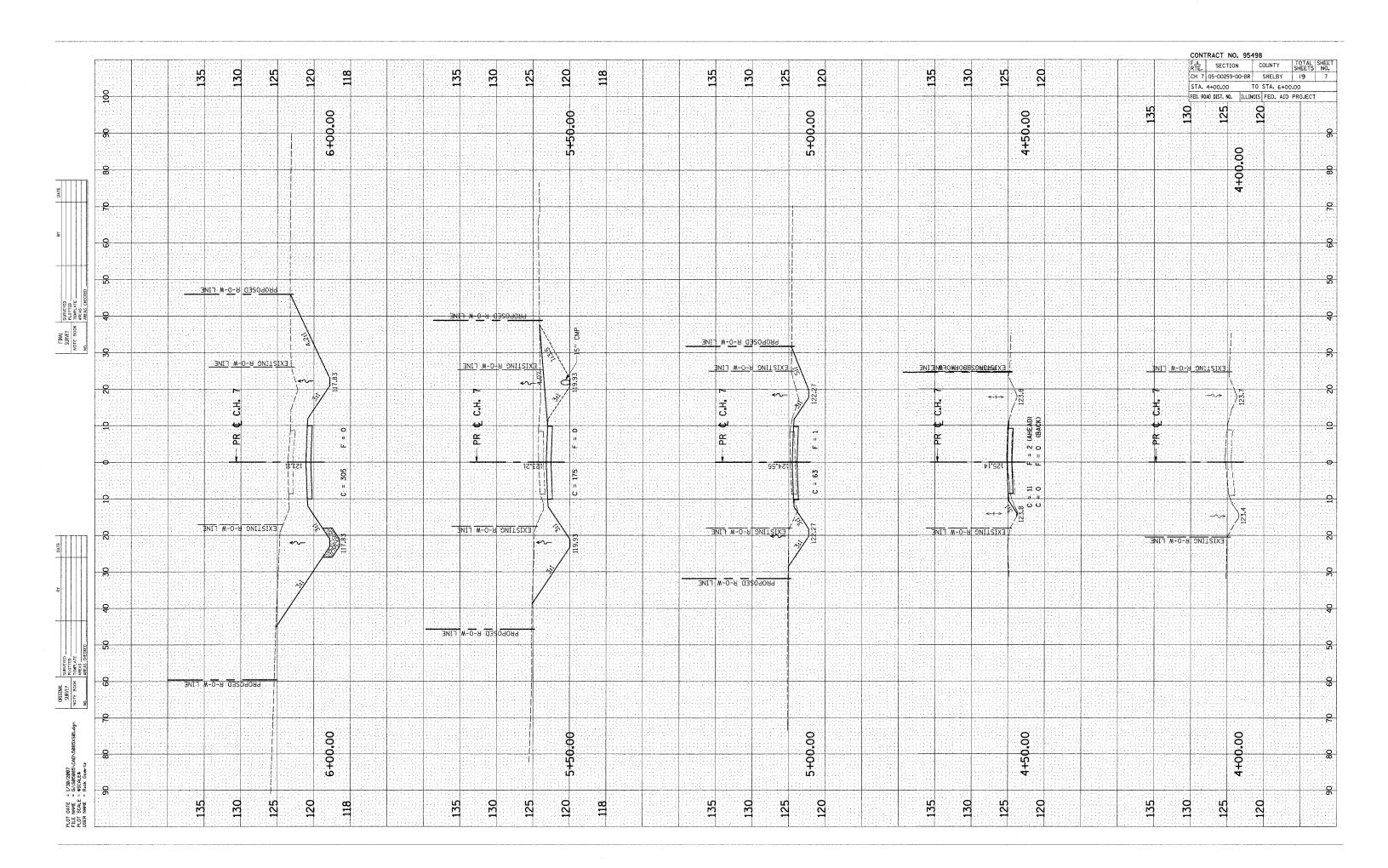
- A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THIS STORM WATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH SECTION 4.B. SHALL BE MADE 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.
- 2. 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:

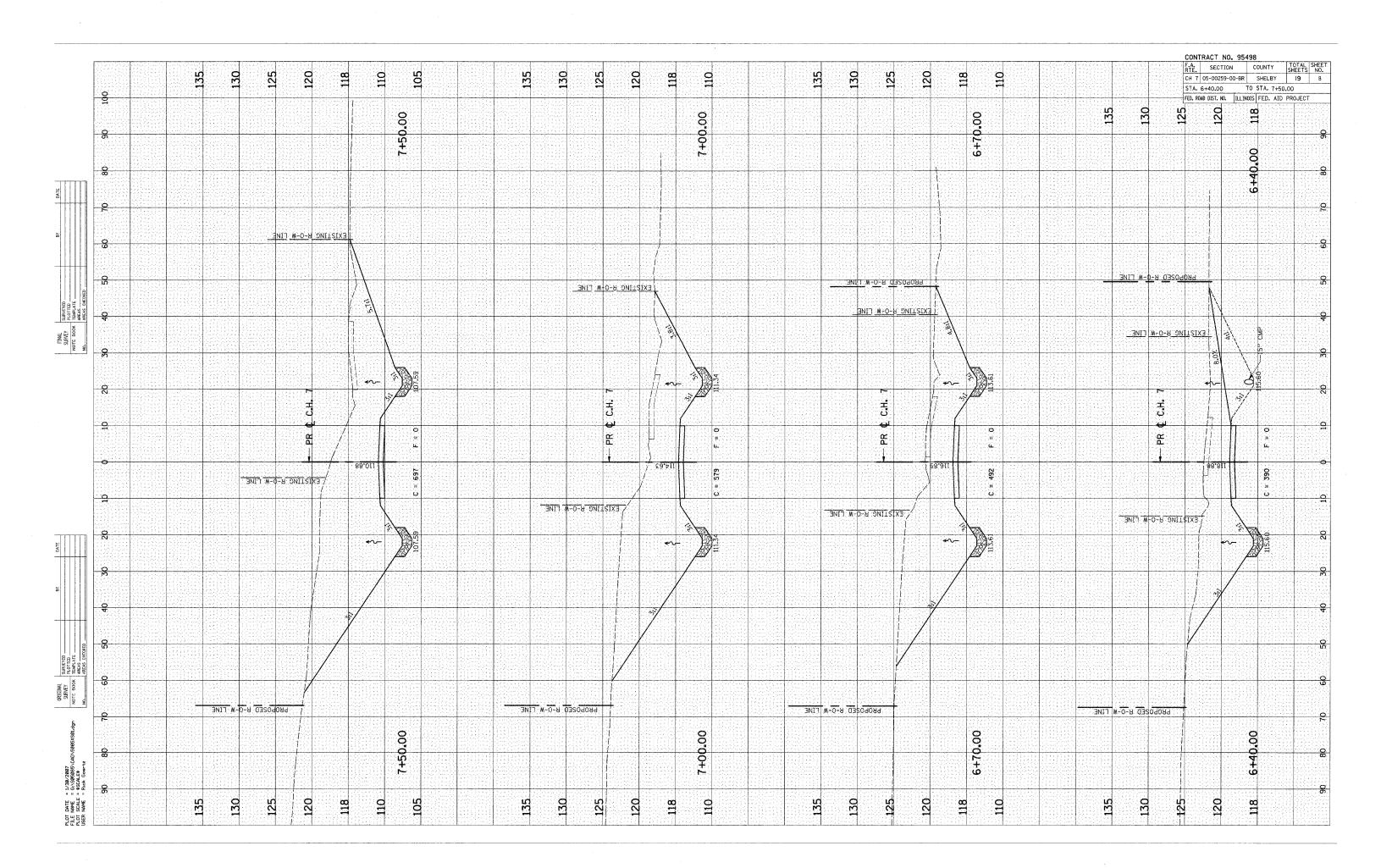
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF WATER POLLUTION CONTROL COMPLIANCE ASSURANCE SECTION #19 POST OFFICE BOX 19276 SPRINGFIELD, IL 62794-9276

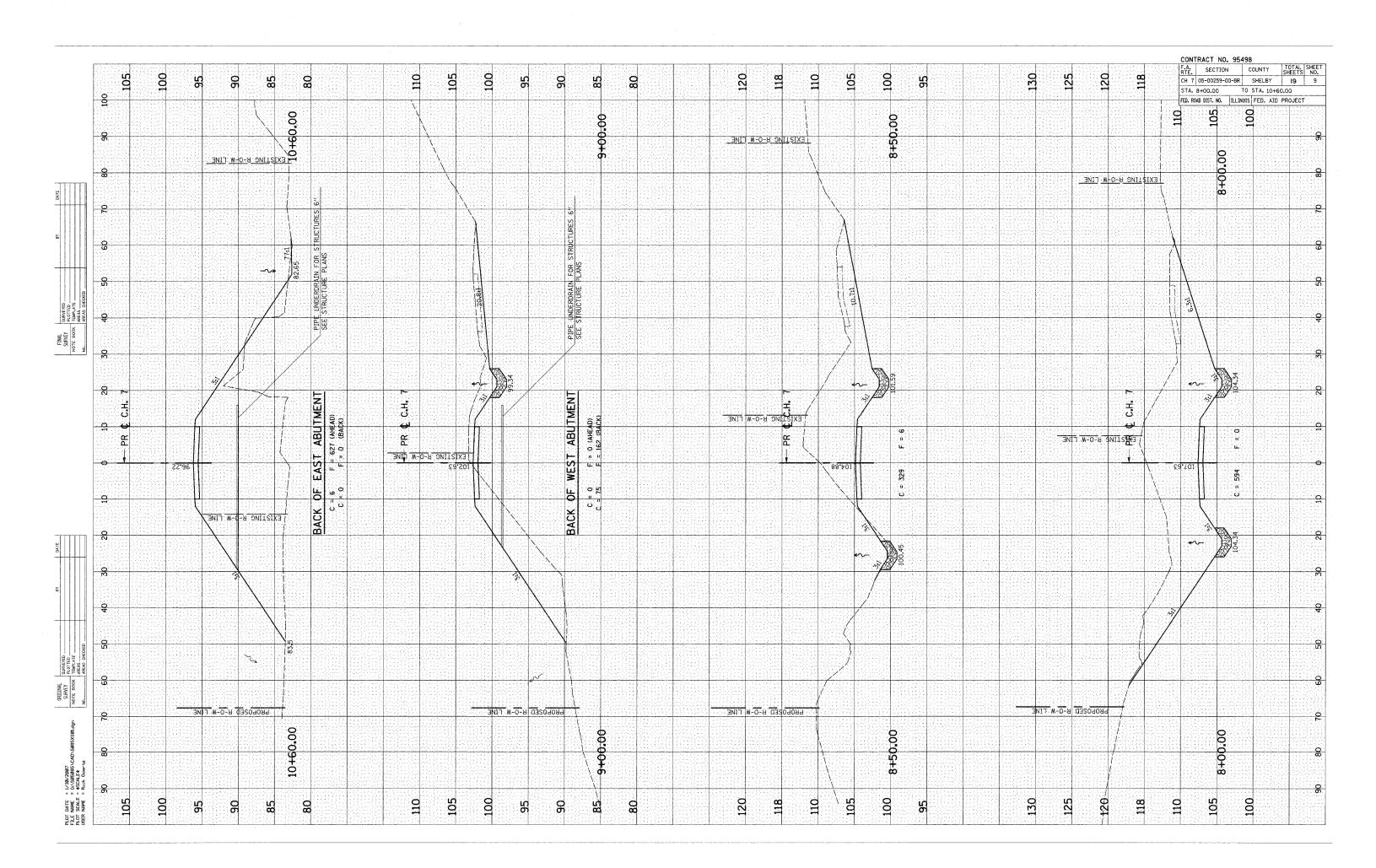
SOIL EROSION & SEDIMENT CONTROL PLAN C.H. 7 OVER RICHLAND CREEK SEC. 05-00259-00-BR SHELBY COUNTY S.N. 087-3550 STA. 9+80

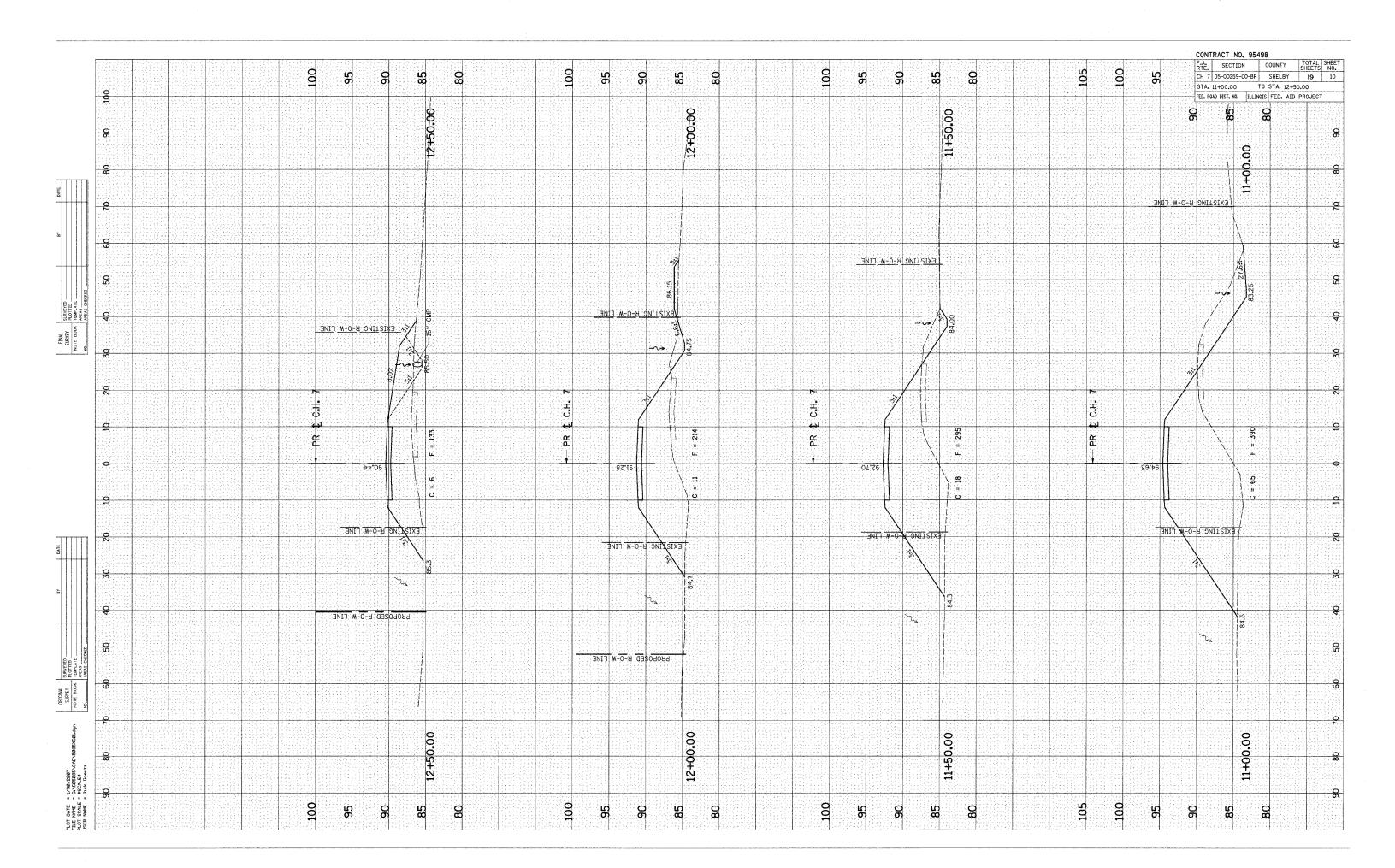
DESIGNED: C.M.V. CHECKED: D.R.B. ORAWN: T.H.W. DATE: DECEMBER 2006

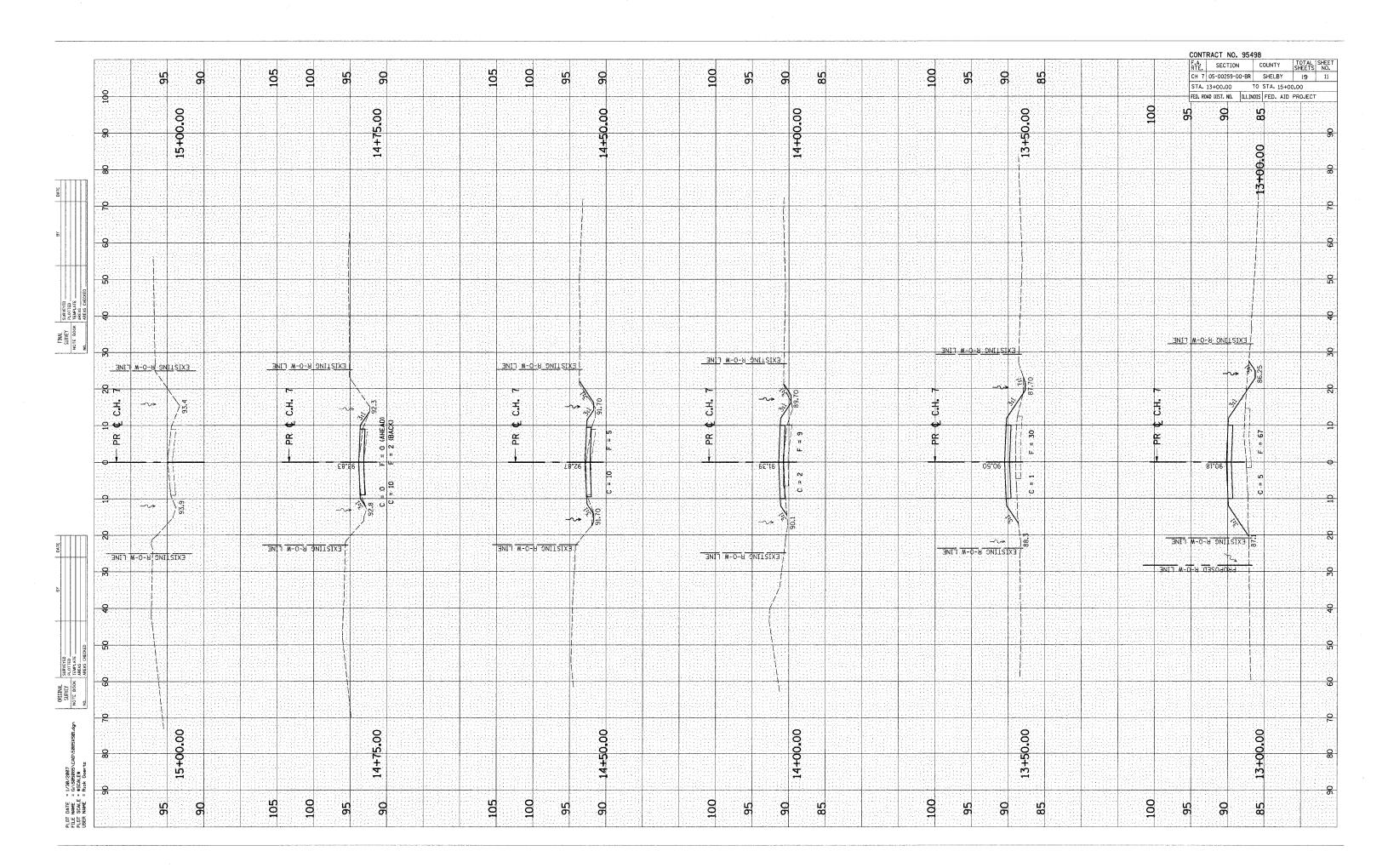




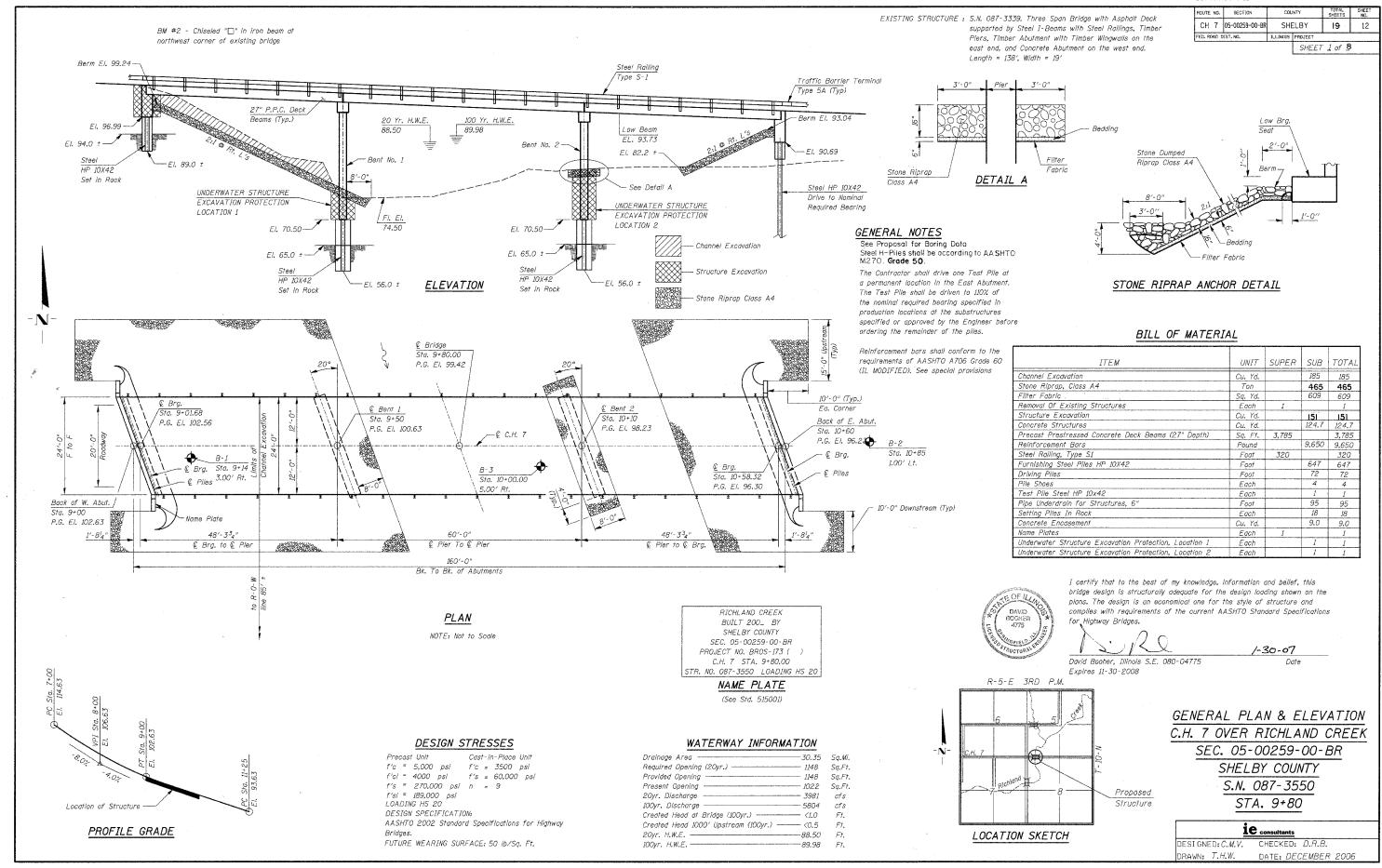


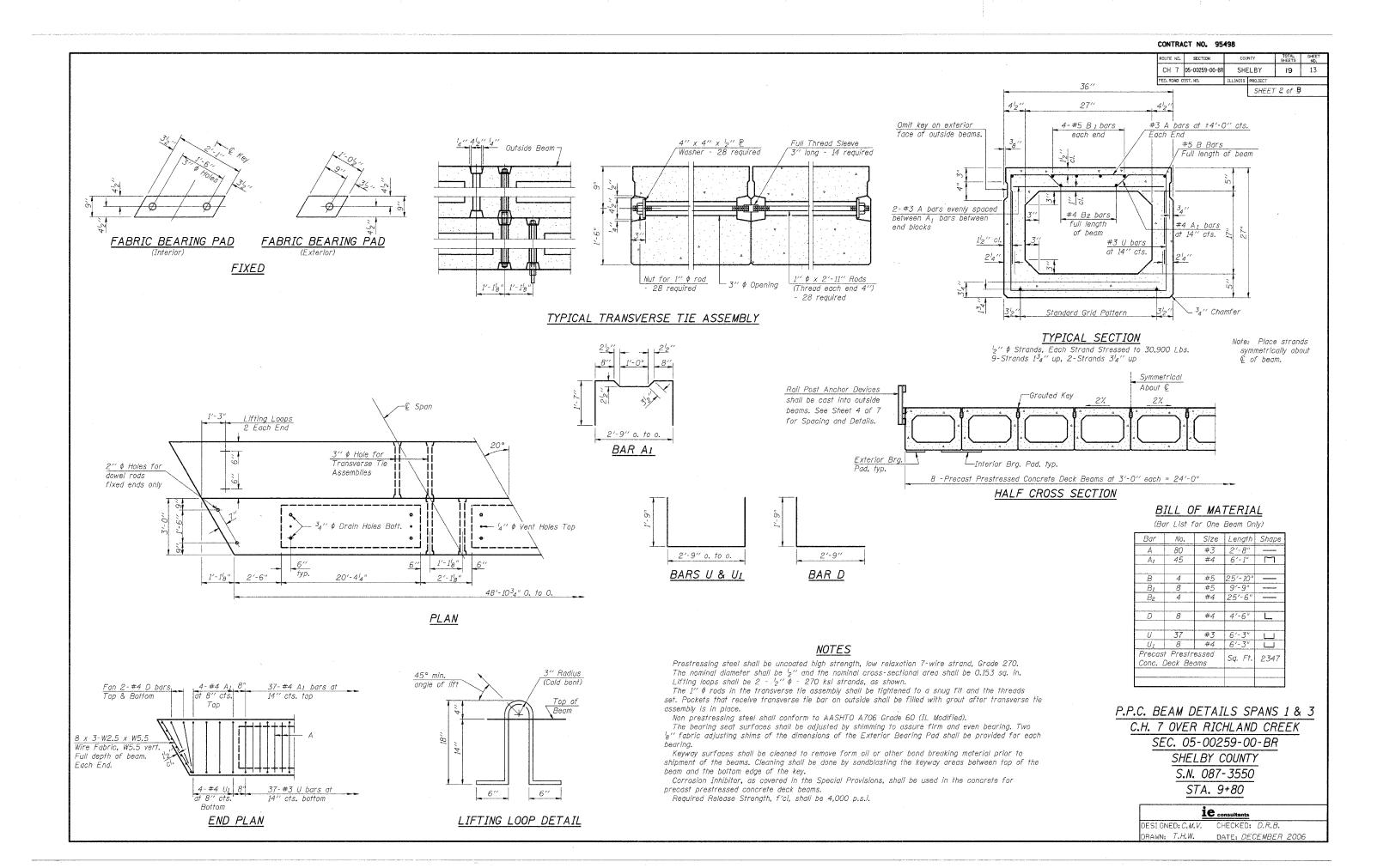


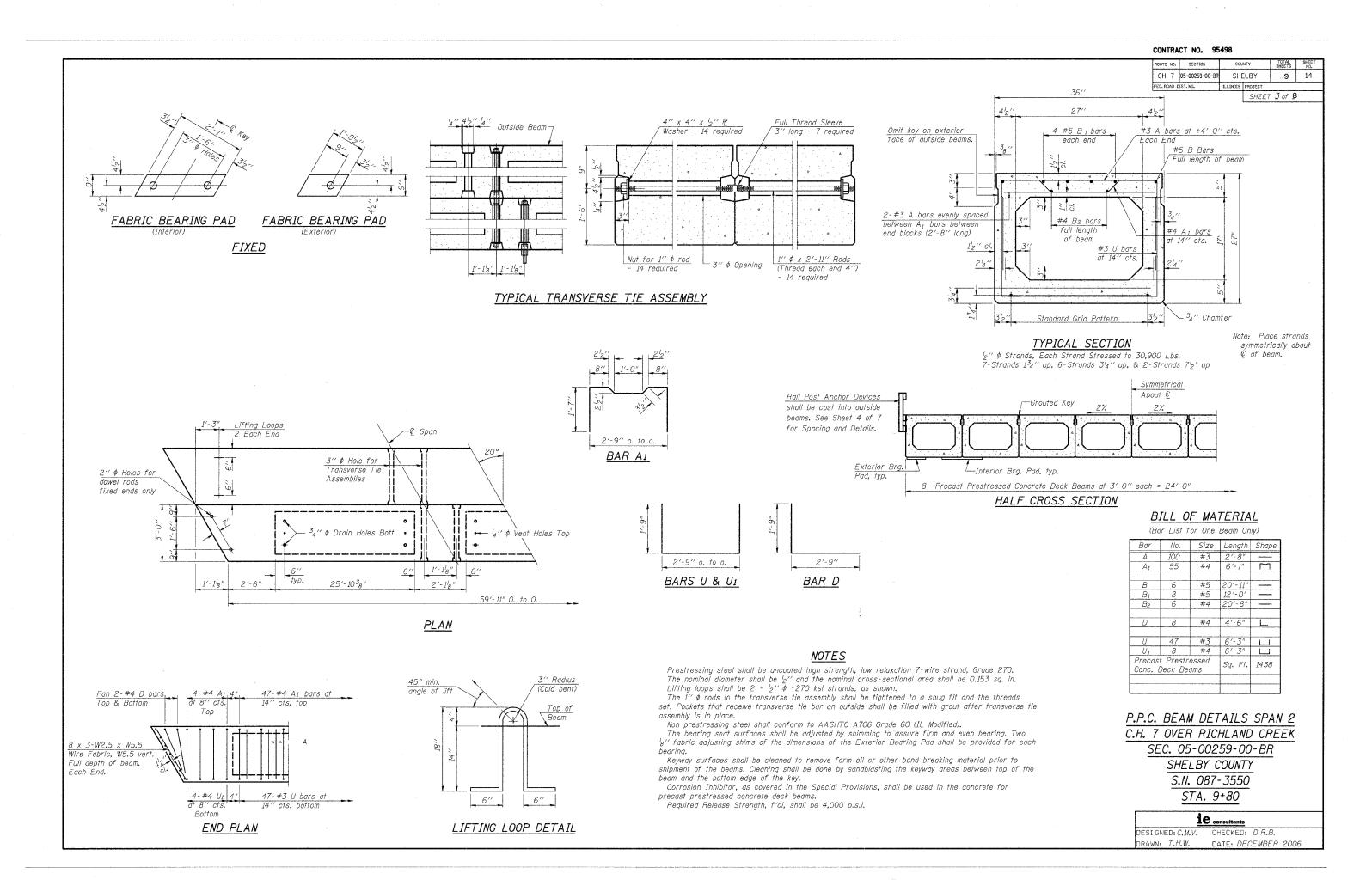


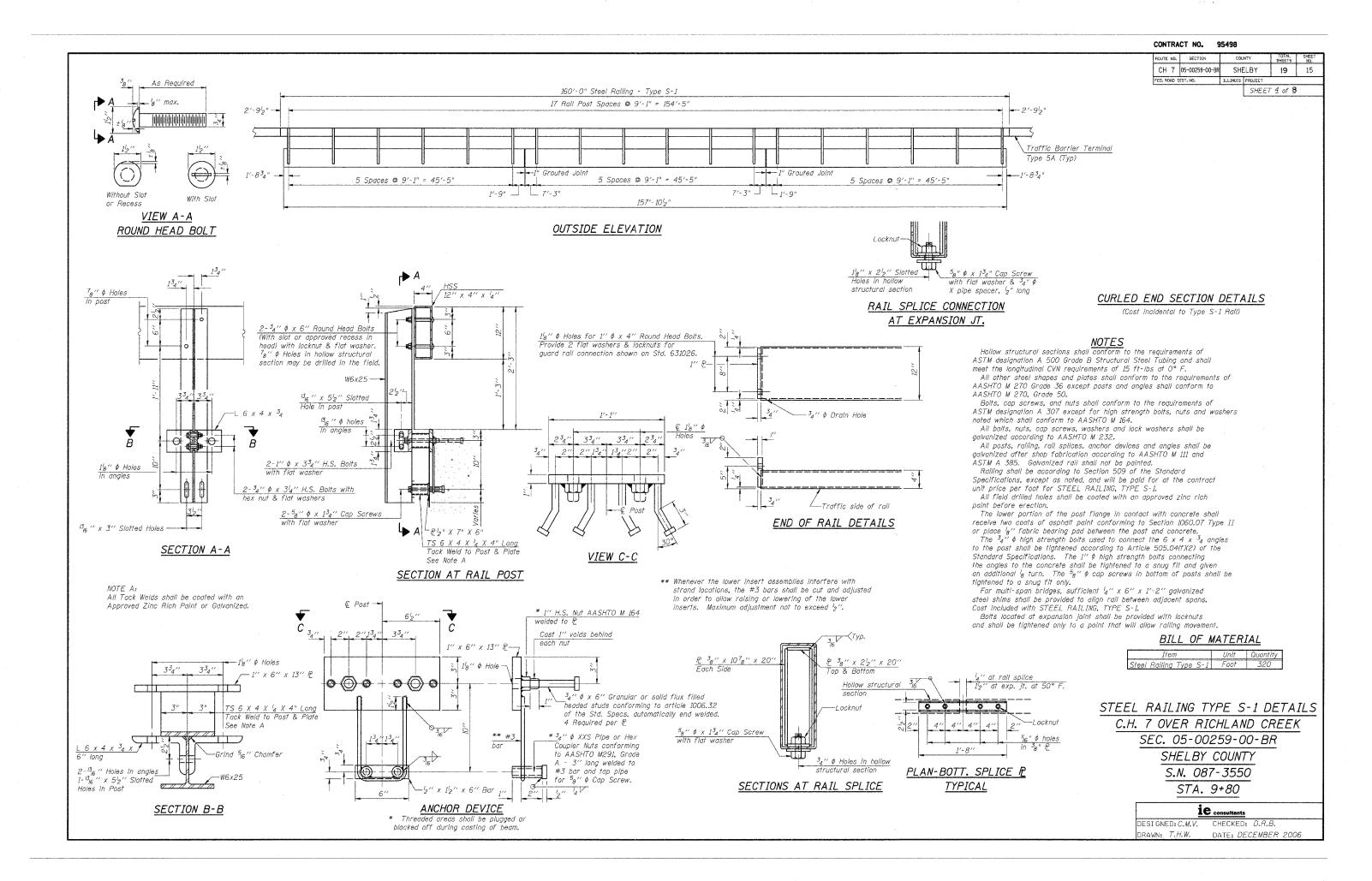


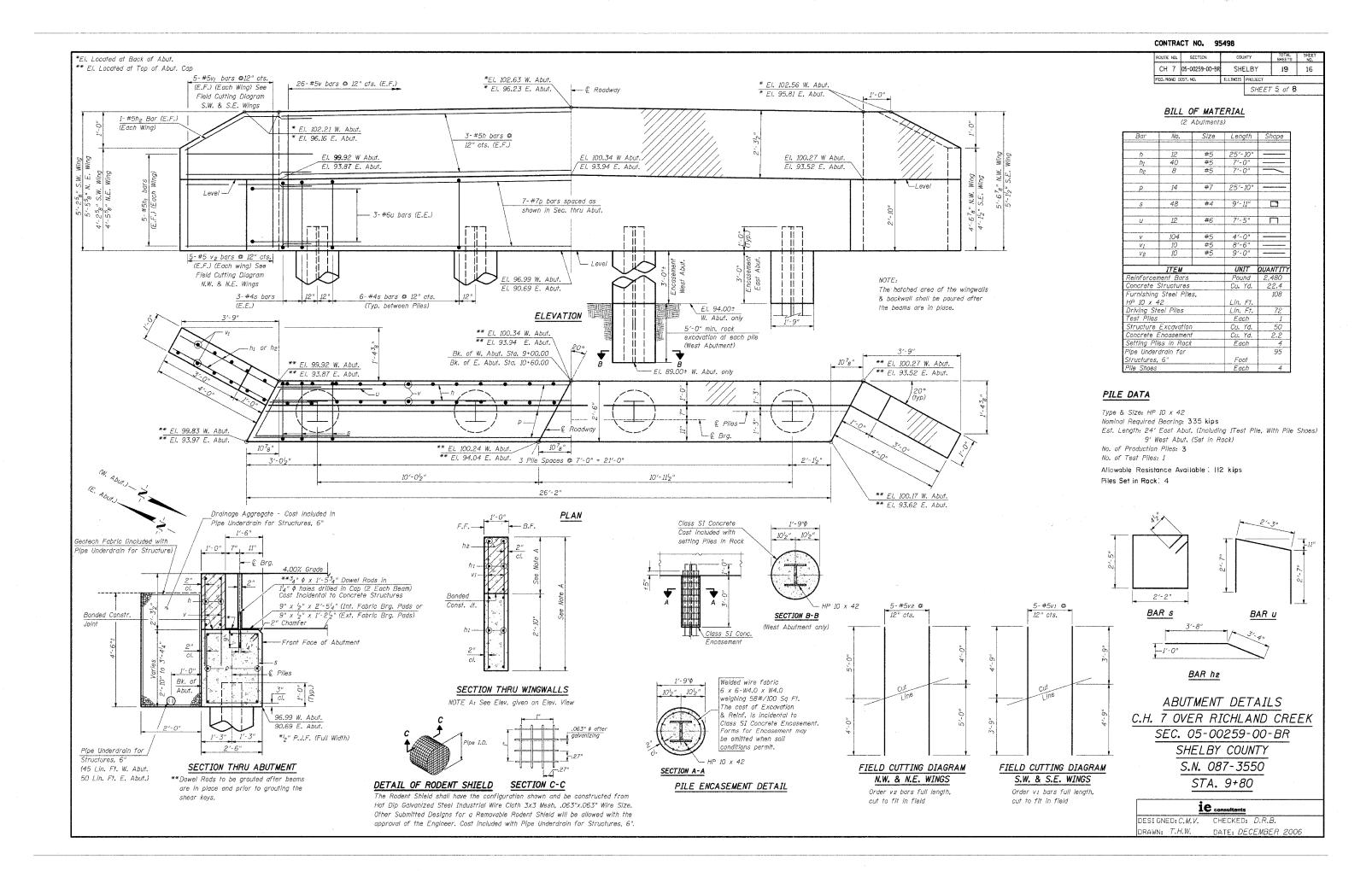


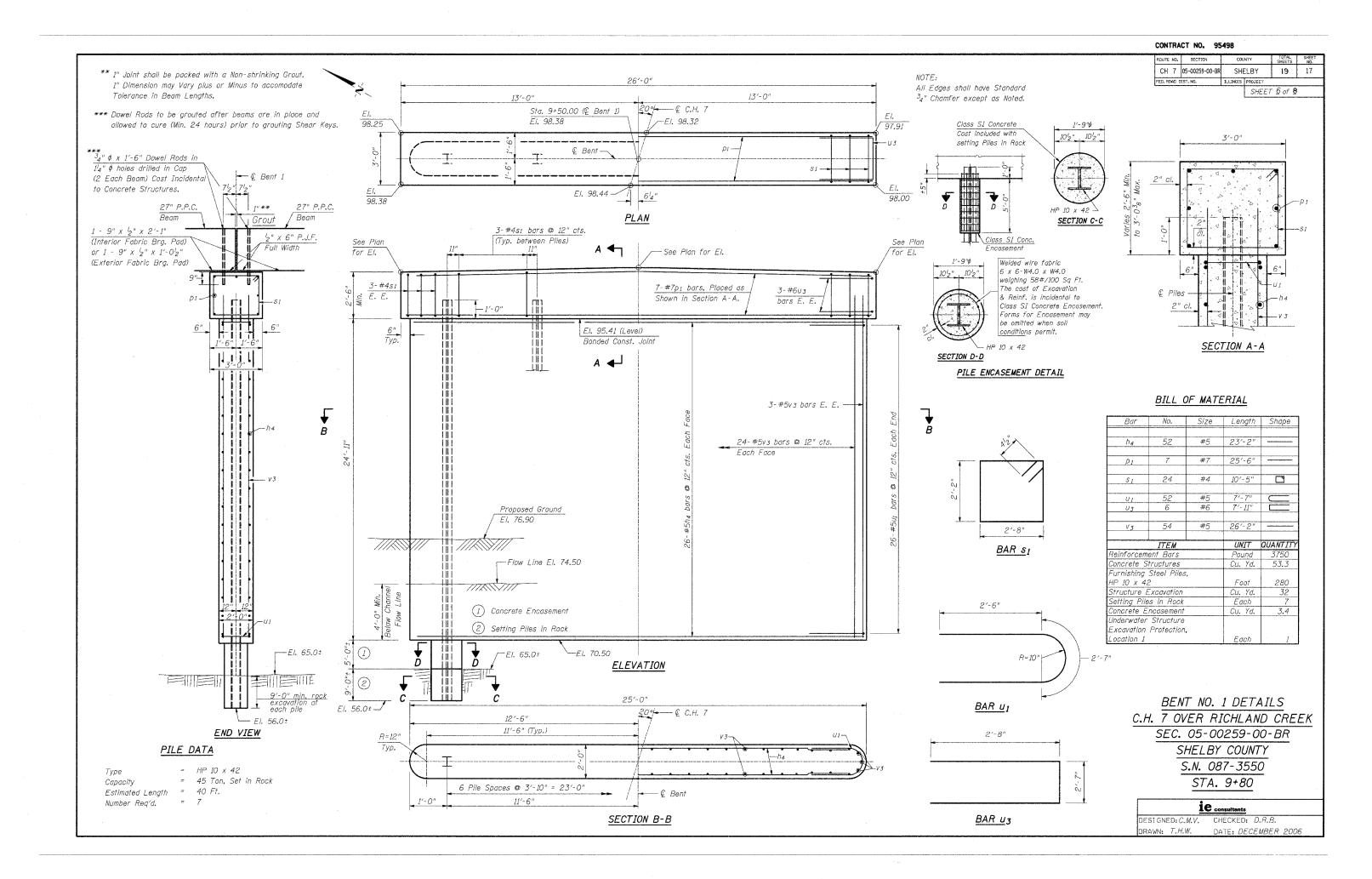


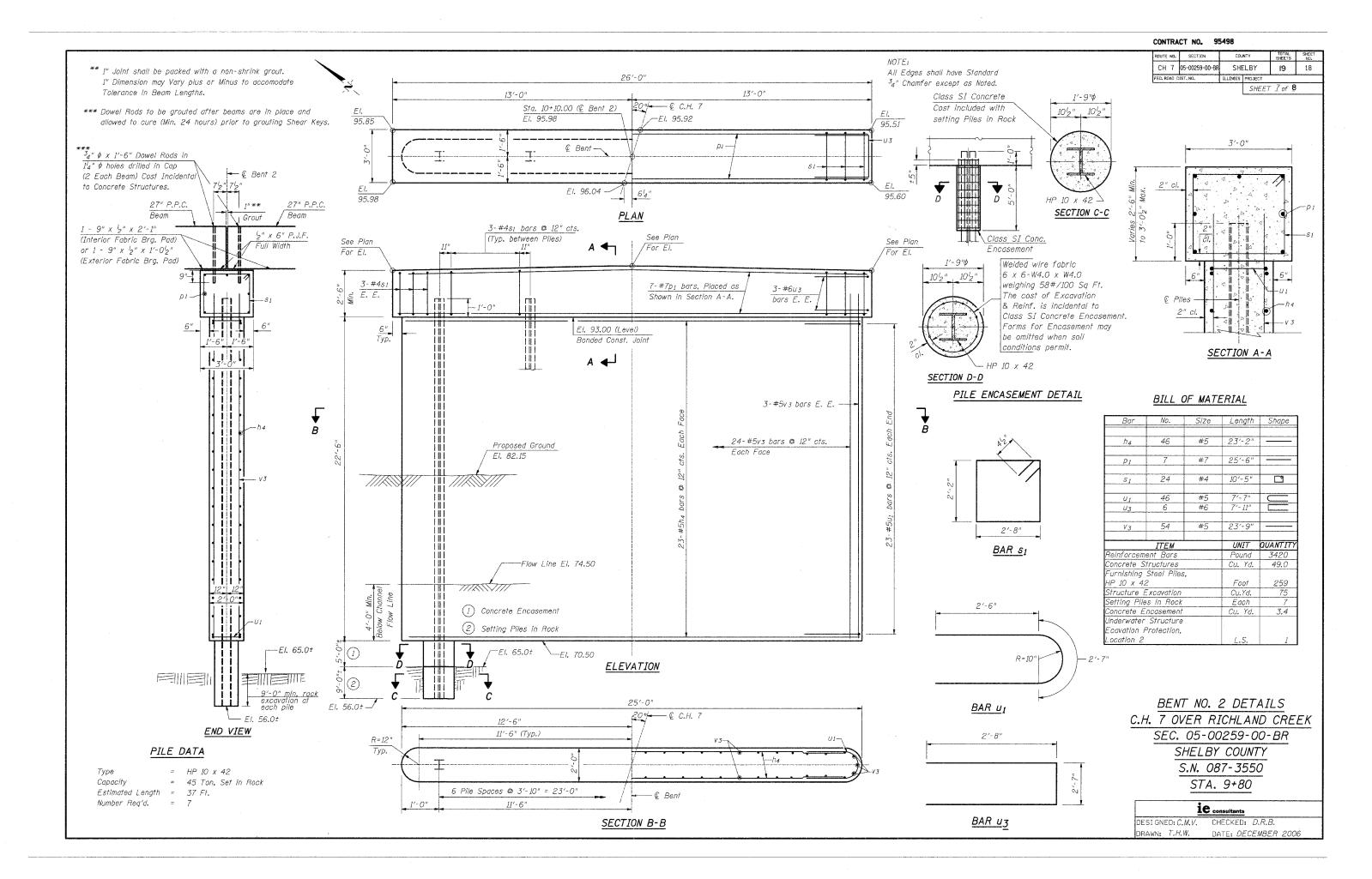








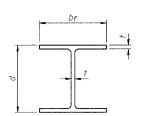




CONTRACT NO. 95498

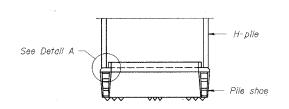
ROUTE	NO.	SECTION	COUNTY		TOTAL SHEETS	SHEET NG.
СН	7	05-00259-00-BR	SHELBY		19	19
FED. R	FED. ROAD DIST. NO.			PROJECT		
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SHEET 8 of 8

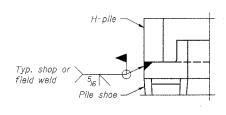


STEEL PILE TABLE

Designation	Depth d	Flange width b _f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14/4"	14 ⁷ 8′′	1316 ′′	30′′
x102	14′′	1434''	16''	30′′
x89	1378"	1434''	58''	30′′
x73	13 ⁵ 8′′	14 ⁵ 8 ′′	2"	30′′
HP 12x84	124"	1214''	16''	24"
x74	1218''	1214''	58′′	24''
x63	12"	12 18''	12"	24''
x53	11 ³ 4′′	12''	716''	24''
HP 10x57	10′′	1014''	916 ''	24''
x42	934''	10 8 "	716''	24''
HP 8x36	8''	81 ₈ ''	7/6′′	18′′

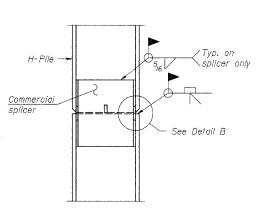


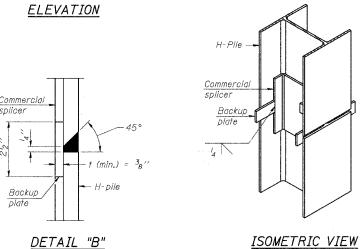
ELEVATION



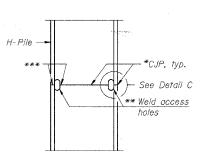
DETAIL A

H-PILE SHOE ATTACHMENT

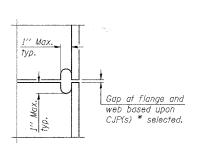




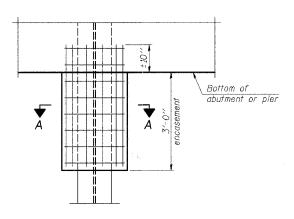
WELDED COMMERCIAL SPLICE



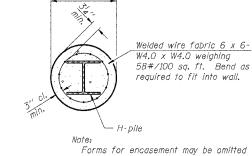




DETAIL C



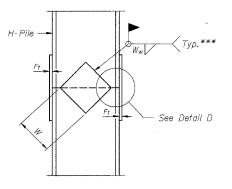
ELEVATION



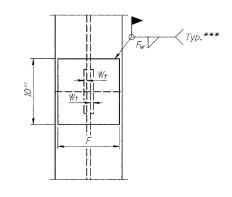
Forms for encasement may be omitted when soll conditions permit.

SECTION A-A

PILE ENCASEMENT



ELEVATION



END VIEW

	l	1.4	
_	<u>†</u>	-	max.
			Splice plate thickness F _t
	<u>DETAIL</u>	D	

Designation	F	Ft	F _w	W	₩ _t	Ww
HP 14x117	12½′′	1''	78''	734''	58′′	12"
x102	12 ¹ 2''	⁷ 8′′	34"	734''	⁵ 8′′	2"
x89	12/2"	34''	16''	734''	5 ₈ ′′	2"
x73	1212''	58′′	916	734′′	5 ₈ ′′	2"
HP 12x84	10′′	78''	1/16''	612"	58''	2"
x74	10′′	78''	1/16′′	62"	58''	12"
x63	10′′	58′′	2"	62"	2"	38''
<i>x</i> 53	10′′	58''	2"	612"	2"	38''
HP 10x57	8′′	34''	916 ′′	54"	12"	38''
x42	8′′	58′′	916 ′′	54"	2"	38''
HP 8x36	7''	5 ₈ ′′	7 ₁₆ ′′	414''	12"	38''

COMPLETE PENETRATION WELD SPLICE

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

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

*** Interrupt welds $^{l}_{4}$ " from end of each pile.

WELDED PLATE FIELD SPLICE

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

STEEL H PILE DETAILS C.H. 7 OVER RICHLAND CREEK SEC. 05-00259-00-BR SHELBY COUNTY S.N. 087-3550

STA. 9+80

DESI GNED: C.M.V. CHECKED: D.R.B. DRAWN: T.H.W. DATE: DECEMBER 2006

F-HP

11-1-06