COUNTY 352 99-24115-00-BR SHELBY 15 1 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PLANS FOR PROPOSED

BRIDGE REPLACEMENT AND REHABILITATION PROGRAM

INDEX OF DRAWINGS

COVER SHEET

SUMMARY OF QUANTITIES, GENERAL NOTES, TYPICAL SECTIONS, AND ENTRANCE DETAILS SOIL EROSION AND SEDIMENT CONTROL PLAN

PLAN & PROFILE

CROSS SECTIONS 12-15 BRIDGE PLANS

TOWNSHIP ROAD 352 SECTION 99-24115-00-BR

WINDSOR ROAD DISTRICT

SHELBY COUNTY

PROPOSED STRUCTURE No. 087-3513

PROJECT No. BROS-173 (128)

JOB No. C-95-322-04

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

EXISTING STRUCTURE NO. 087-3308

SINGLE SPAN BRIDGE WITH STEEL GIRDERS, CORRUGATED STEEL DECK WITH ASPHALT OVERLAY, CLOSED TIMBER ABUTMENTS AND WINGWALLS, 36'-0" BK TO BK ABUTMENTS 23-8" OUT TO OUT WIDTH.

SCALES

			0	50	10
PLAN	1" =	50°	0	50	11
PROFILE HORIZ.	1" =	50'			
PROFILE VERT.	1" =	5'	0	5	
	-	•	0	10	2
CROSS SECTIONS HORIZ.	1" ==	10'	0	5	1
CROSS SECTIONS VERT	1" -	5'			



ternational 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

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

STA. 10+00.00 SPECIAL BRIDGE DESIGN SINGLE SPAN 33" P.C.C. DECK BEAM BRIDGE 68'-0" BK. TO BK. ABUTMENTS, 24'-0" CLEAR WIDTH PILE BENT ABUTMENTS, 10° SKEW RT. STRUCTURE No. 087-3513

LOCATION MAP

APPROXIMATE SCALE: 1 INCH = 1 MILE NET LENGTH OF SECTION = 825.00 FFET = 0.1563 MILES

FUNCTIONAL CLASSIFICATION: LOCAL ROAD

DESIGN YEAR = 2025

UTILITY COMPANIES

ILLINOIS CONSOLIDATED TELEPHONE CO. 121 SOUTH 17th. STREET MATTOON, ILLINOIS 61938 1-(217) 235-3311

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

> The acceptance of this project is based on the minimum design criteria for a Federal-Aid Bridge Replacement and Rehabilitation Improvement

APPROVED	5/3/ 20 05 Don Croy/As Highway Commissioner	
PASSED	5/31 20 05 County Engineer	
PASSED	6/3 20 05 District Engineer of Local Roads & Streets	-
Releasing For Bid Based on Limited Review	Regional Engineer	
D	STATE OF ILLINOIS EPARTMENT OF TRANSPORTATION	

David Booher, Illinois P.E. 062-043769

Expires 11-30-2005

PROJECT ENDS STA, 14+00,00

PROJECT BEGINS

STA. 5+75.00

NO COMMITMENTS

COUNTY 352 99-24115-00-BR SHELBY 15 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

SECTION

SUMMARY	0F	QUANTI	٦	TES
			_	NITT

	SUMMARY OF QUAN	11111F2	
CODE NO.	ITEM	LNIT	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	JNIT	103
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	TINL	246
* 20200100	EARTH EXCAVATION	CY	1989
20300100	CHANNEL EXCAVATION	CY	318
20400800	FURNISHED EXCAVATION	CY	1057
* 25000200	SEEDING, CLASS 2	ACRE	1.1
25000400	NITROGEN FERTILIZER NUTRIENTS	FOUND	99
25000500	PHOSPHOURS FERTILIZER NUTRIENTS	FOUND	99
25000600	POTASSIUM FERTILIZER NUTRIENTS	FOUND	99
* 25100115	MULCH METHOD 2	ACRE	2. 2
28000250	TEMPORARY EROSION CONTROL SEEDINGS	FOUND	300
28000300	TEMPORARY DITCH CHECKS	EACH	8
28000400	PERIMETER EROSION BARRIER	FOOT	390
28000500	INLET AND PIPE PROTECTION	EACH	5
* 28100707	STONE DUMPED RIPRAP, CLASS A4	TON	412
28102600	STONE RIPRAP DITCH	TON	108
28200200	FILTER FABRIC	SQ YD	614
* 40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	819
* 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CY	43
50300225	CONCRETE STRUCTURES	CY	22.1
50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SO FT	1584
50800105	REINFORCEMENT BARS	FOUND	2570
50900205	STEEL RAILING, TYPE S1	=00T	134
51201000	FURNISHING METAL PILE SHELLS 12"	FOOT	282
51202600	DRIVING AND FILLING SHELLS	FOOT	282
51203200	TEST PILE METAL SHELLS	EACH	2
51204315	CONCRETE ENCASEMENT	CY	2. 2
51500100	NAME PLATES	EACH	1
54200640	PIPE CULVERTS, TYPE 1, CORRUGATED STEEL OR ALUMINUM CULVERT PIPE 15"	FOOT	192
54201270	PIPE CULVERTS, TYPE 2, CORRUGATED STEEL	FOOT	60
* 67/00/00 SEE SPECIA	OR ALUMINUM CULVERT PIPE 15" MOBILI ZATION L PROVISONS	L sum	1

EARTHWORK SUMMARY

EARTH EXCAVATION = 1,989 CU YD CHANNEL EXCAVATION = 318 CU YD STRUCTURE EXCAVATION = 43 CU YD

TOTAL FILL REQ'D. = 2,740 CU YD (IN PLACE) ** ESTIMATE OF FILL FROM EARTH EXCAVATION = 1492 CU YD

FURNISHED EXCAVATION REQUIRED = 1057 CU YD

- *** ESTIMATE OF FILL FROM CHANNEL EXCAVATION = 159 CU YD ** ESTIMATE OF FILL FROM STRUCTURE EXCATATION = 32 CU YD
- ** 25% SHRINKAGE FACTOR APPLIED
 *** 50% SHRINKAGE FACTOR APPLIED

SEE CROSS SECTIONS FOR END OF IMPROVEMENT 2'-0" EARTH SHLD. 2'-0" 3:1 1/2"/FT. /2"/FT. 3:1 ---2'-0" EARTH SHLD. 1 EDGE OF ROADWAY 15'-0"

16'-0" _| FIELD ENTRANCE

ESTIMATED QUANTITIES

ITEM	RAT	E 0	F APF	PLICATI	ON	QUA	NTITIES
SEEDING CLASS 2	F	ER	ART.	250.07	=	1.1	ACRES
NITROGEN FERTILIZER NUTRIENTS	=	90	LBS.	/ACRE	=	99	POUNDS
PHOSPHORUS FERTILIZER NUTRIENTS	5 =	90	LBS.	/ACRE	Ξ	99	POUNDS
POTASSIUM FERTINIZER NUTRIENTS	=	90	LBS.	/ACRE	=	99	POUNDS
MULCH METHOD 2	=	2	TONS.	/ACRE	Ξ	2.2	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.

FIELD ENTRANCE DETAIL

** TRANSITION EMBANKMENT TOP WIDTH: 15' AT STA. 5+75 TO 24' AT STA. 6+25 24' AT STA. 13+50 TO 15' AT STA. 14+00.

1 AGGREGATE SURFACE COURSE, TYPE B 6"

TREE REMOVAL

(6 TO 15 UNITS DIAMETER)

STATION	OFFSET	UNIT
STA. 9+13	24' RT	8
STA. 9+39	28' RT	8
STA. 9+59	26′ RT	8
STA. 9+62	23′ RT	12
STA. 9+63	26′ RT	8
STA. 9+82	27' RT	15
STA. 12+75	15′ RT	12
STA. 12+89	19′ RT	6
STA. 12+97	17′ RT	6
STA. 13+00	18′ RT	6
STA. 13+02	18′ RT	6
STA. 13+90	17′ RT	8
	TOTAL =	103

TREE REMOVAL

(OVER 15 UNITS DIAMETER)

STATION	OFFSET	UNIT
STA. 9+00	25' RT	48
STA. 9+11	25' RT	30
STA. 9+14	26' RT	24
STA. 9+23	25′ RT	30
STA. 9+33	26' RT	24
STA. 9+36	27' RT	24
STA. 9+41	26′ RT	24
STA. 13+79	20' R T	24
STA. 13+90	19' RT	18
	TOTAL =	103

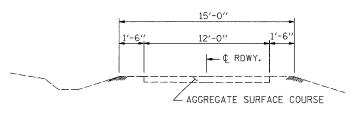
** 24'-0" SHLD, TO SHLD. - ¢ RDWY. /2"/FT _1/4"/FT. 1/4"/FT. AGGREGATE SURFACE COURSE, 2'-0" TYPICAL CUT PROPOSED TYPICAL SECTION TYPICAL FILL

(TYPICAL)

SURFACE COURSE

T.R. 352 CURRENT ADT < 150

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



EXISTING TYPICAL SECTION

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

ONLY TREES MARKED FOR REMOVAL BY THE ENGINEER SHALL BE REMOVED BY THE CONTRACTOR.

TOTAL SHEETS

15

SECTION

*

* 99-24115-00-BR

TR 352

FED. ROAD DIST. NO. 7

COUNTY

SHELBY

SHEET

3

T.R. 352 BRIDGE CONSTRUCTION PROJECT WINDSOR ROAD DISTRICT SHELBY COUNTY

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

: 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 EELIEF, 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 OFFICIAL)

05-31-05

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 -	
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 SEEDING, ETC.
- 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 1.1 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 ILLINOIS ENVIRONMENTAL

T.R. 352 BRIDGE CONSTRUCTION PROJECT WINDSOR 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.

GIGNATURE	DATE
ITLE	
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 T.R. 352 OVER SAND CREEK SEC. 99-24115-00-BR SHELBY COUNTY S.N. 087-3513 STA. 10+00.00

1e consultants

INTERNATIONAL ENGINEERING CONSULTANTS, INC. 6420 SOUTH SIXTH STREET SPRINGFIELD, ILLINOIS 62707 TEL. (217) 529-8027 FAX (217) 529-4543 IESPRINGEIELD@IE-CONSULTANTS COM

DESIGNED BY: CHECKED BY: DRAWN BY: G.B.M.

J.P.H.

G:\S963\CAD\963EC.dan

SHEET 1 OF 2

ROUTE NO.	SECTION	cor	JNYY	TOTAL SMEETS	SHEET NO.
TR 352	*	SHE	LBY	15	4
PED. ROAD DIST	NQ. 7	ILLINDIS	FEO. AID PR	DJECT-	

*99-24115-00-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 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 CONTROL SEEDING".
- (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, REDJCE 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, SEDIVENT BASINS, RIPRAP DITCH CHECKS,
- TEMPORARY EROSION CONTROL FENCE, OR TEMPORARY DITCH CHECKS SHALL BE USED.
 2. 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/MONING AND OVERSEEDING CAN BE COMPLETE
- 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 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

SHAPING TO THE SLOPES

- V, 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 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 FROSION 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 THE 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

- 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 T.R. 352 OVER SAND CREEK SEC. 99-24115-00-BR SHELBY COUNTY S.N. 087-3513 STA. 10+00.00

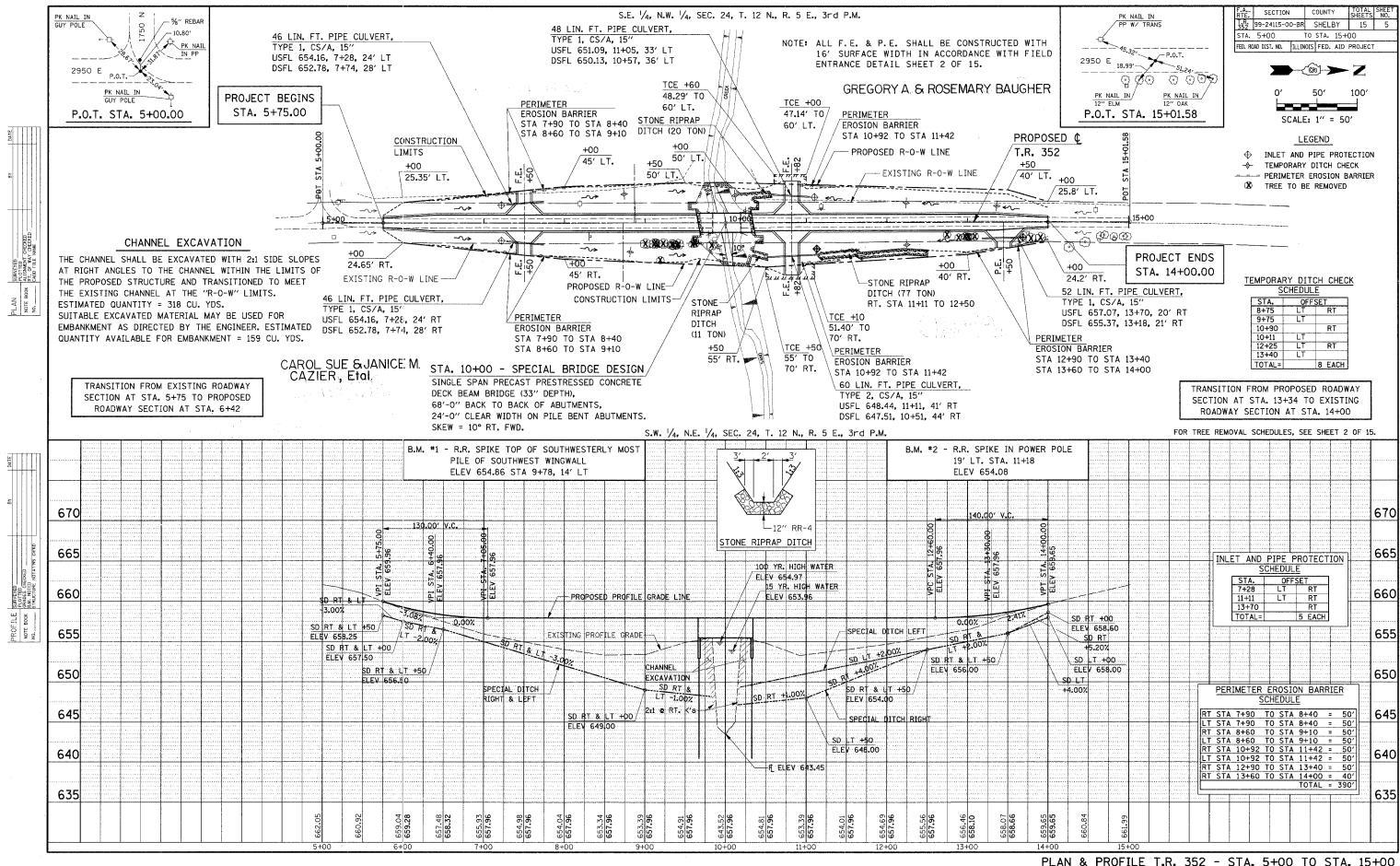
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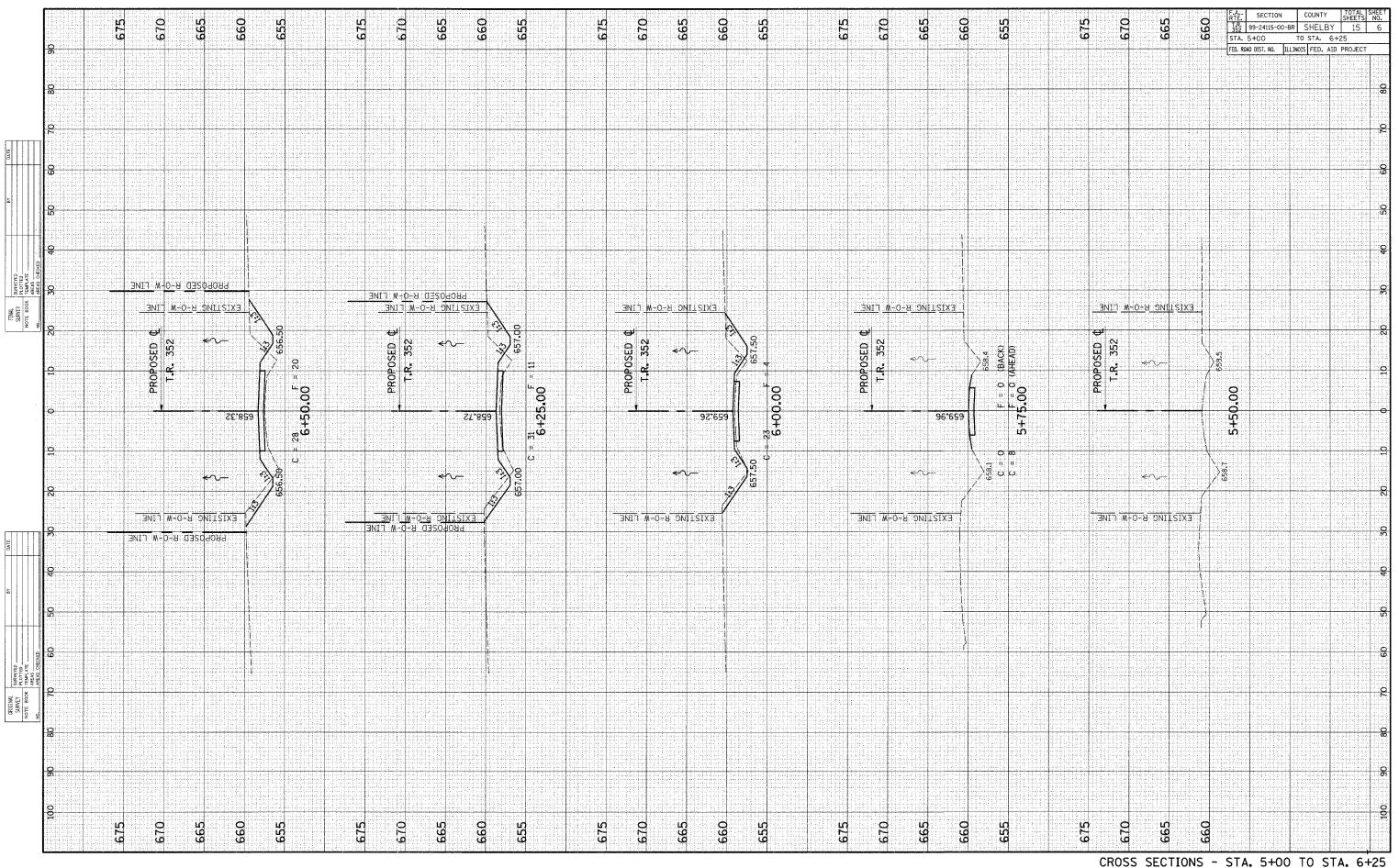
INTERNATIONAL ENGINEERING CONSULTANTS, INC. 6420 SOUTH SIXTH STREET SPRINGFIELD, ILLINOIS 62707 TEL. (217) 529-8027 FAX (217) 529-4543 consultants | IESPRINGFIELD@IE-CONSULTANTS.COM | WWW.IE-CONSULTANTS.COM

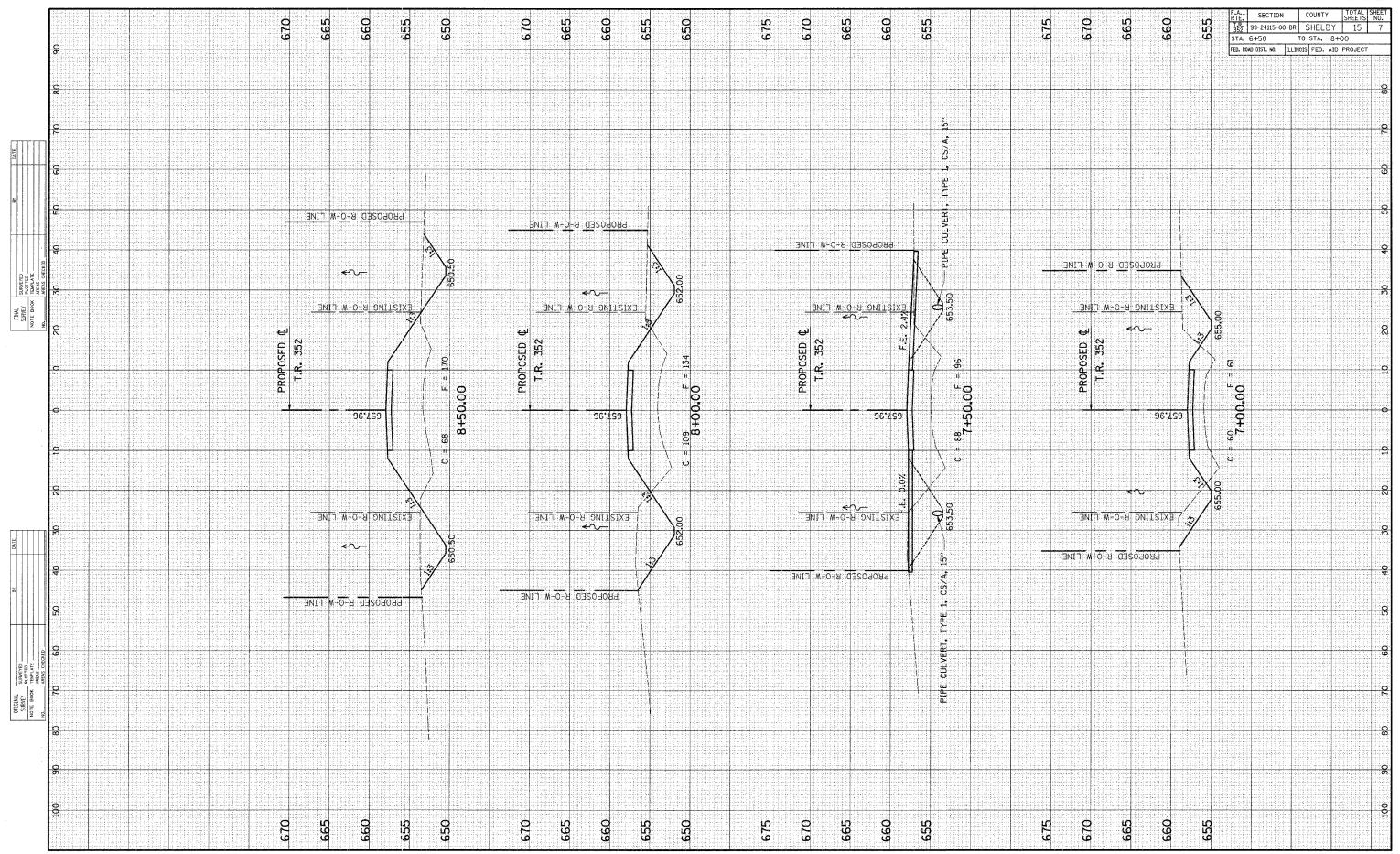
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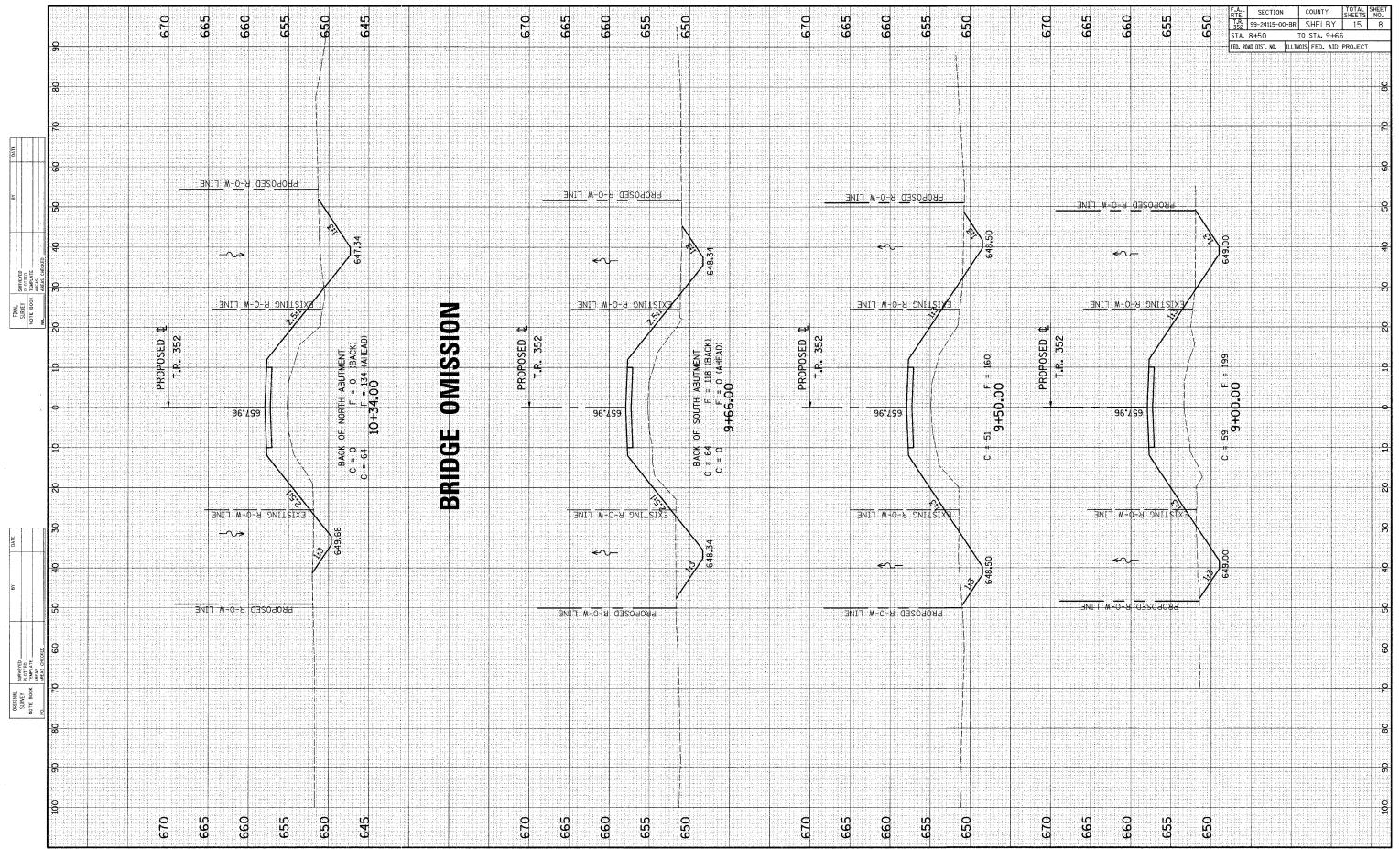
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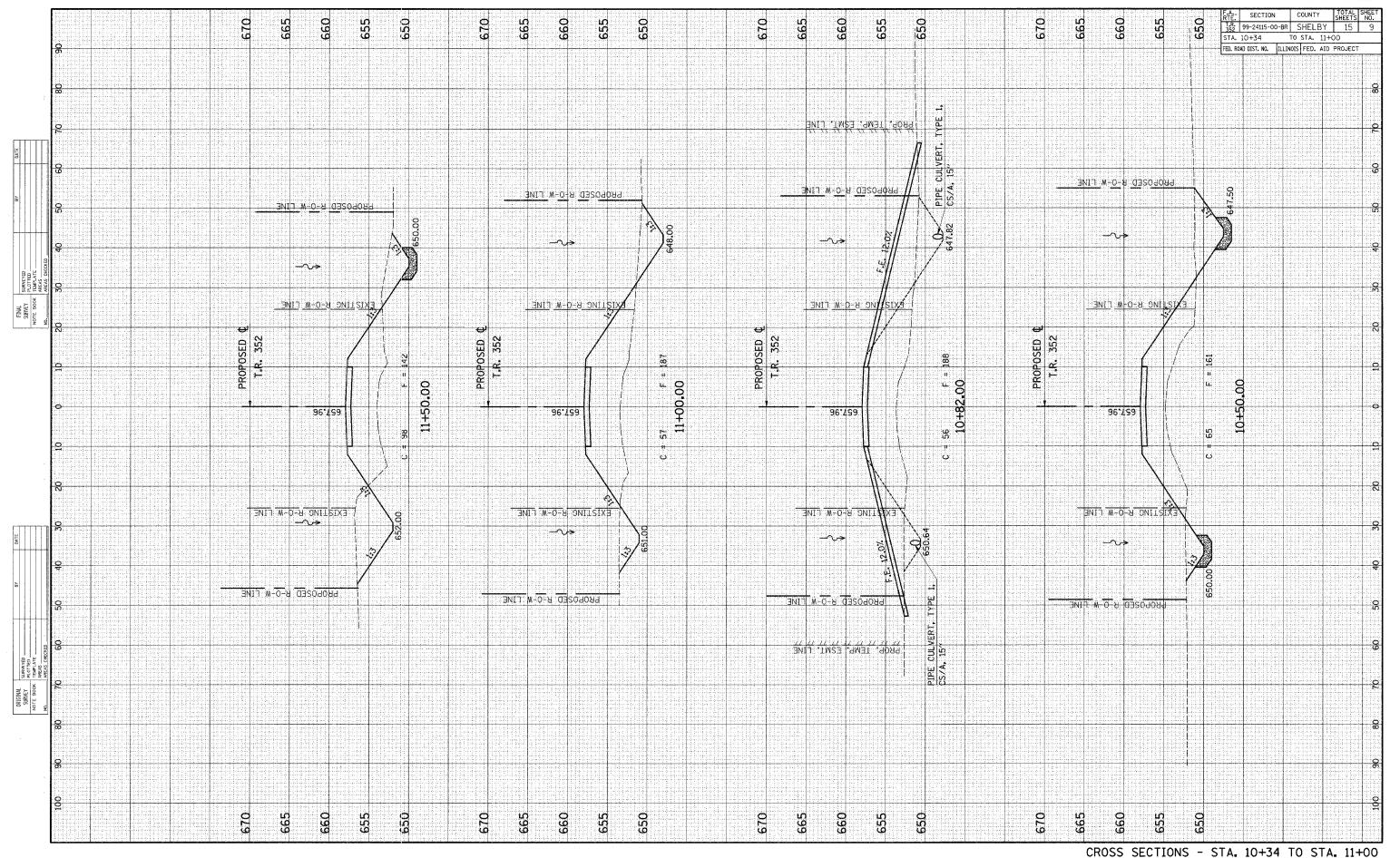
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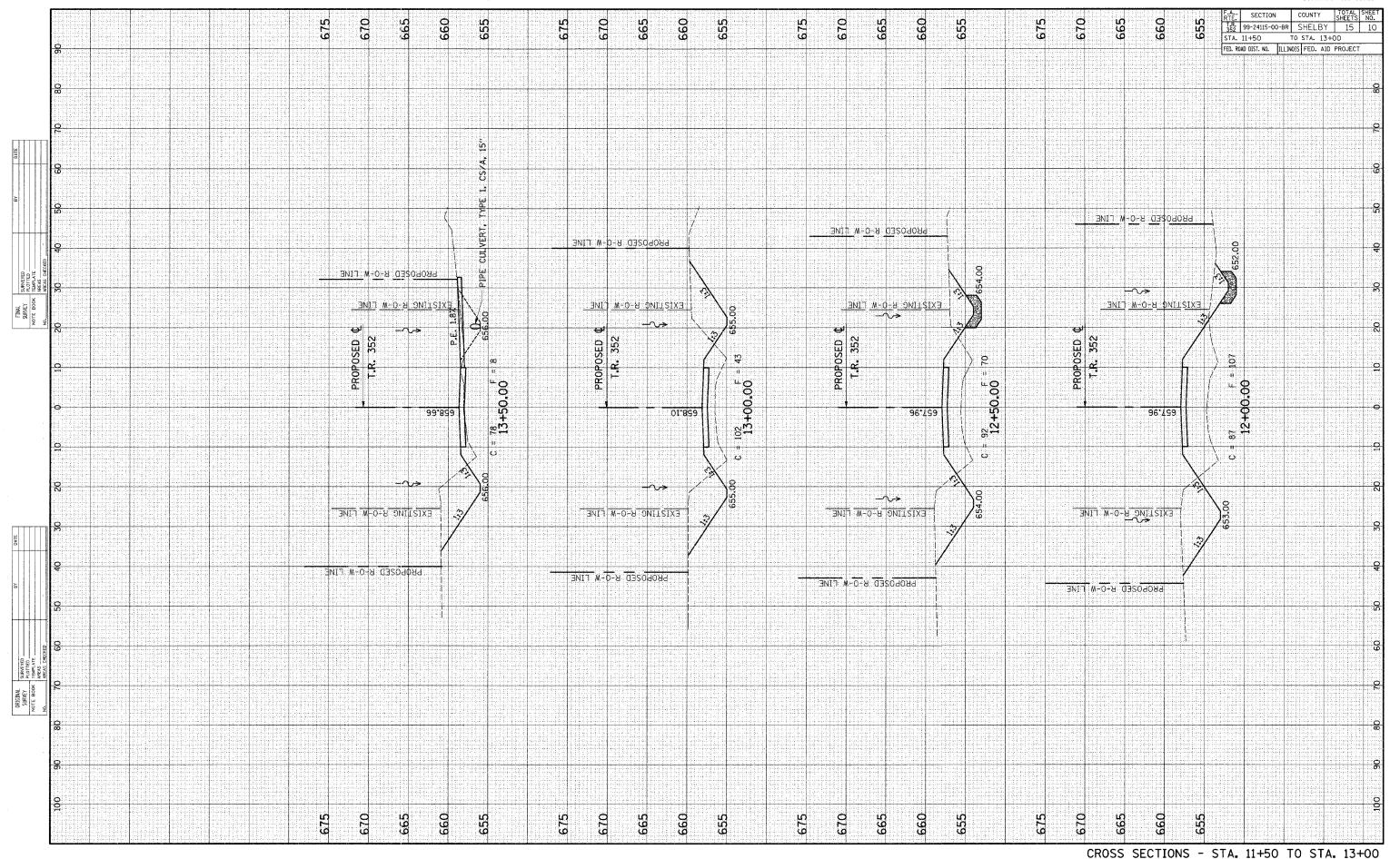




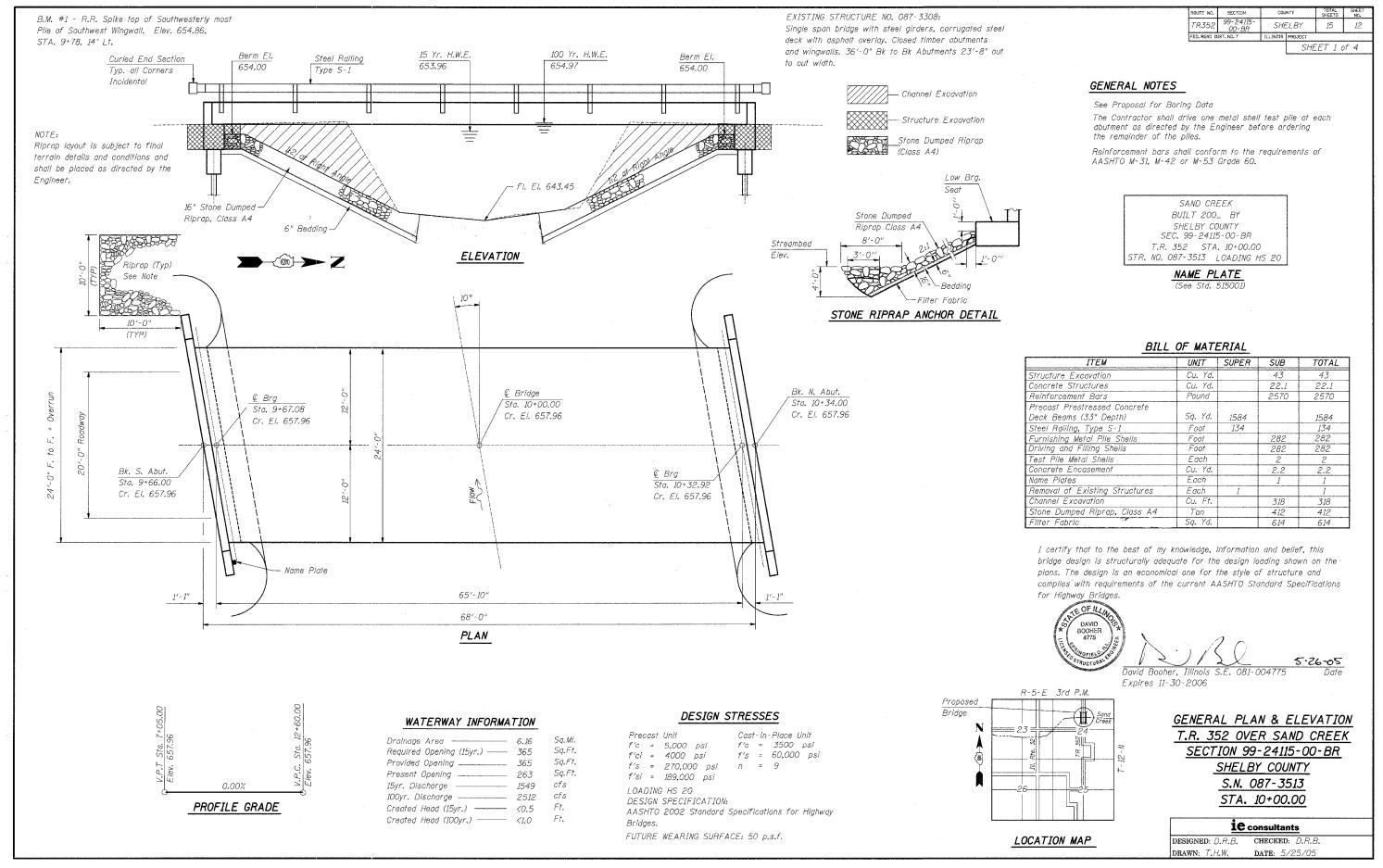


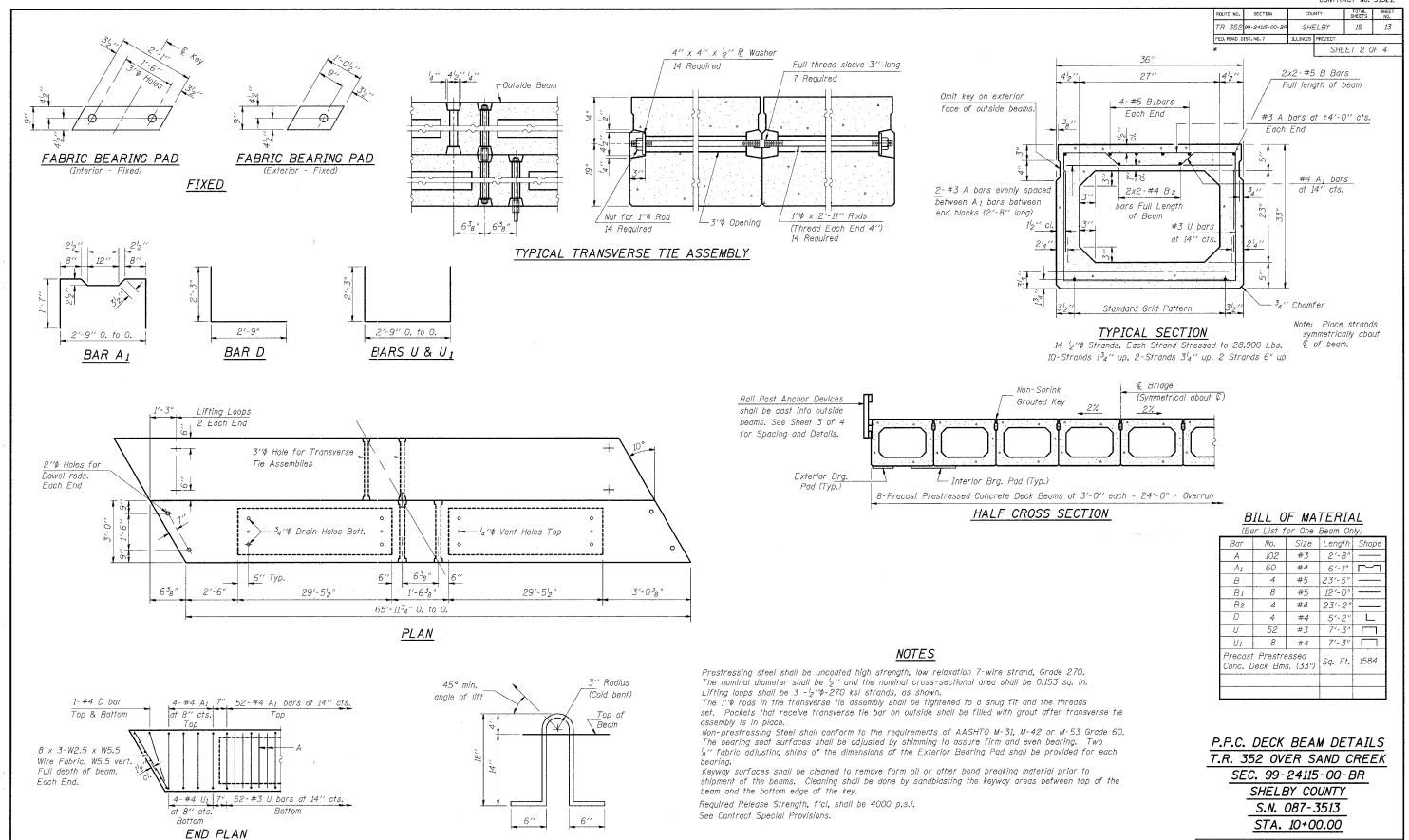






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LIFTING LOOP DETAIL

DESIGNED: D.R.B. CHECKED: D.R.B.
DRAWN: T.H.W. DATE: 5/25/05

