

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
849	113B-1	JEFFERSON	24	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 78085	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

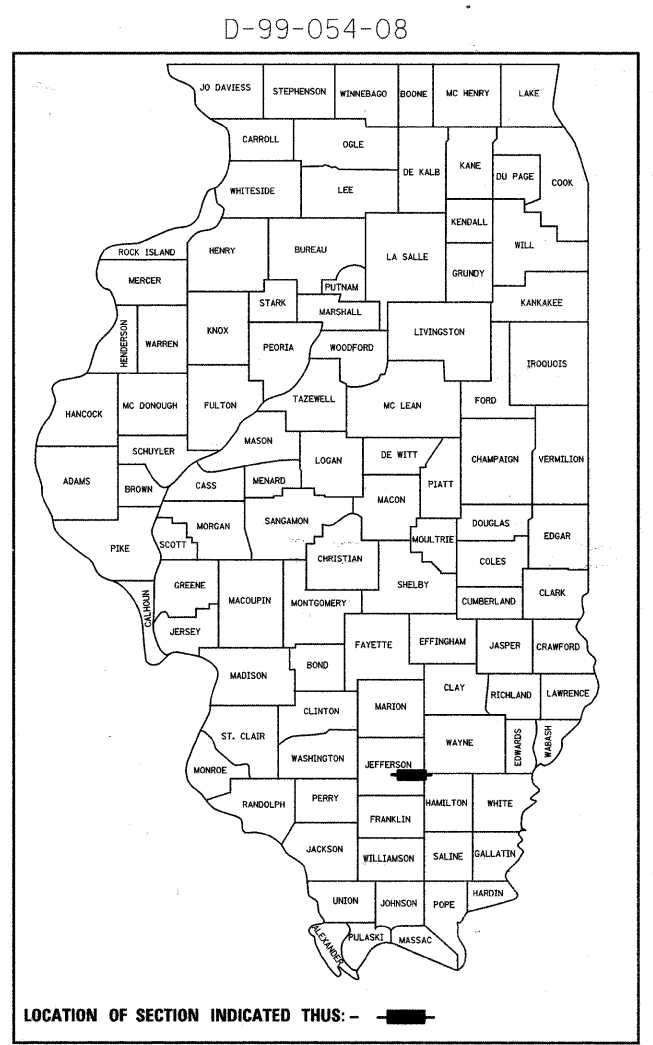
FAP ROUTE 849 (IL 142)
SECTION 113B-1
JEFFERSON COUNTY
C-99-072-08

PROJECT: F-0849(012)

STRUCTURE REPLACEMENT OVER UNNAMED STREAM

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3

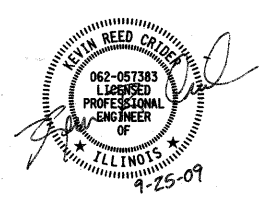
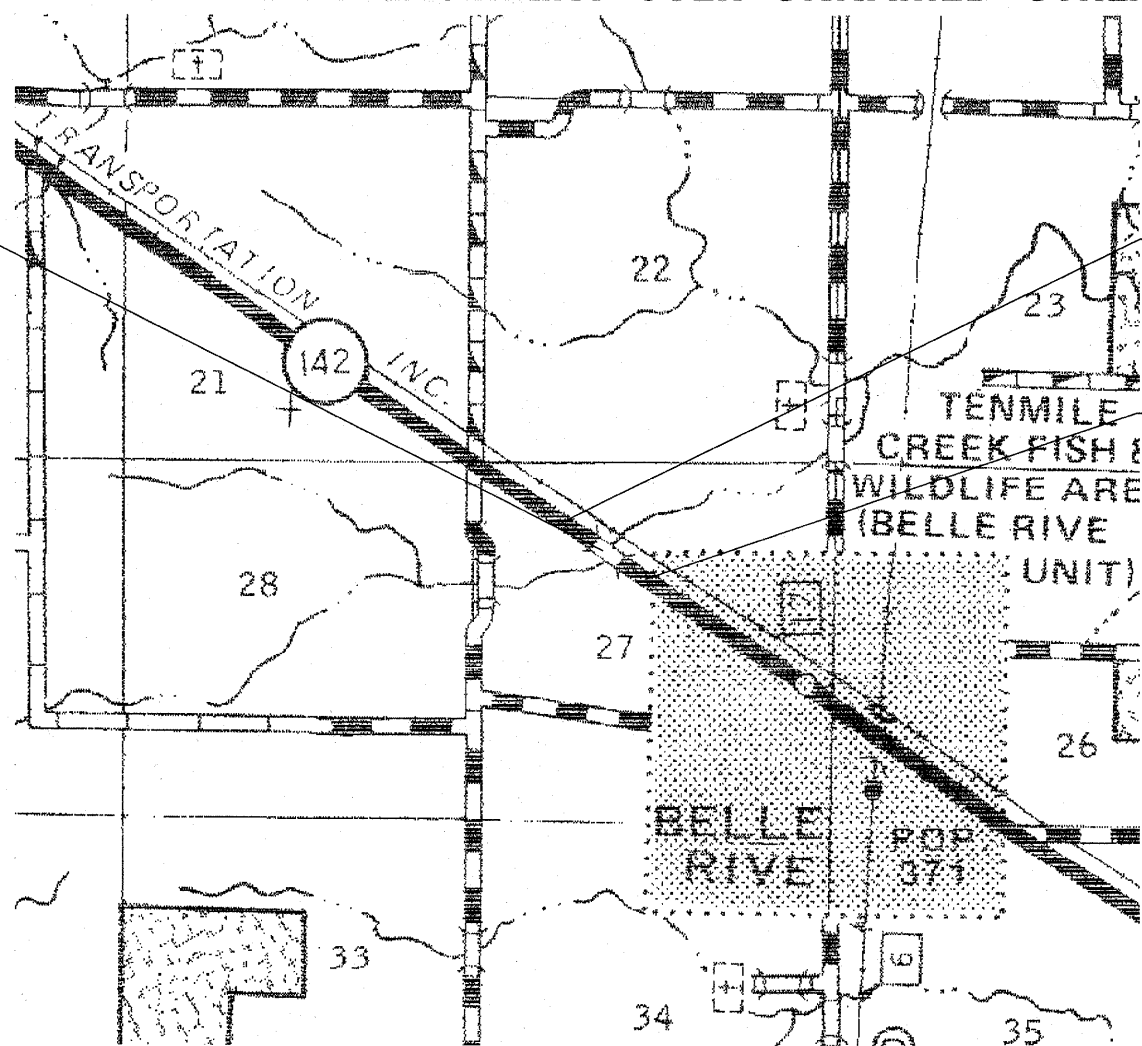
TRAFFIC DATA:
2007 ADT FOR FAP 849 (IL 142)
2,910 WITH 7.4 % TRUCKS



PROPOSED CULVERT ON IL 142
OVER UNNAMED STREAM
STRUCTURE NO. 041-2017
TRIPLE BARREL 9'X8' BOX CULVERT;
50'-11 1/2" OUT TO OUT
@ RIGHT ANGLES: 10° SKEW
STRUCTURE C STA 536+32.00
EX. STRUCTURE NO. 041-0045

PROJECT BEGINS
STA. 535+95.00

PROJECT ENDS
STA. 536+70.00



GEOTECH
ENGINEERING & TESTING, INC.

601 NORTH 4th STREET MURRAY, KENTUCKY 42071
500 SOUTH 17th STREET PADUCAH, KENTUCKY 42003
403 NORTH COURT STREET MARION, ILLINOIS 62959
PHONE - 270.753.7307 PHONE - 270.443.1995 PHONE - 618.997.9190

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Oct 13 20 09

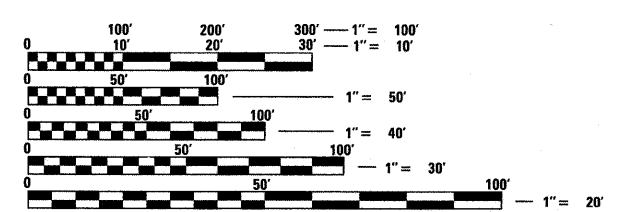
Mary C. Kamic
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 4, 2009
Charles A. Ingersoll
ENGINEER OF DESIGN AND ENVIRONMENT

December 4, 2009
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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TOWNSHIPS: PENDLETON



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.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

FAP RTE 849 (IL 142)
GROSS LENGTH OF PROJECT: 75 FT.
SN 041-2017
ROADWAY LENGTH = 45'-4"
CULVERT LENGTH = 29'-8"
NET LENGTH OF PROJECT: 75 FT.

CONTRACT NO. 78085

PROJECT ENGINEER: DAVID PICHE (618) 549-2171

SUMMARY OF QUANTITIES

COUNTY:	JEFFERSON
ROUTE:	FAP 849 (IL 142)
FUNDING:	80% FED 20% STATE

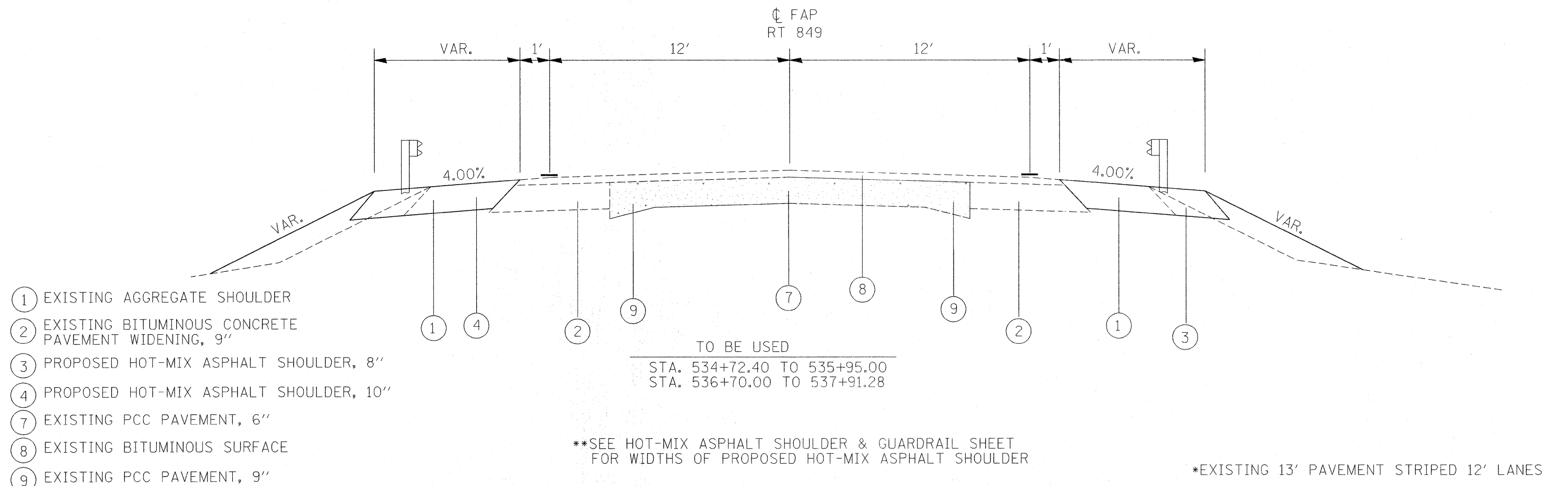
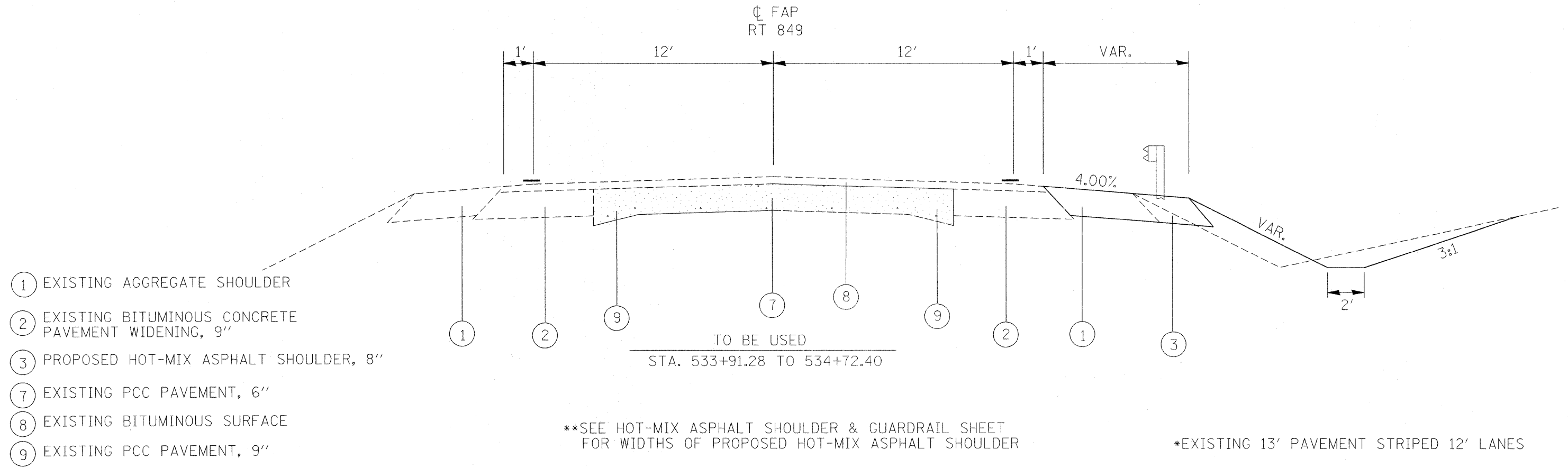
COUNTY:	JEFFERSON
ROUTE:	FAP 849 (IL 142)
FUNDING:	80% FED 20% STATE

CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	102
20300100	CHANNEL EXCAVATION	CU YD	126
20400100	BORROW EXCAVATION	CU YD	299
25000200	SEEDING, CLASS 2	ACRE	.26
25000350	SEEDING, CLASS 7	ACRE	.26
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	34
25000500	PHOSPHOROUS FERTILIZER NUTRIENT	POUND	24
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	24
25000700	AGRICULTURAL GROUND LIMESTONE	TON	.52
25100115	MULCH, METHOD 2	ACRE	.26
25100630	EROSION CONTROL BLANKET	SQ YD	1256
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	104
28000305	TEMPORARY DITCH CHECKS	Foot	48
28000400	PERIMETER EROSION BARRIER	FOOT	817
28100109	STONE RIPRAP, CLASS A5	SQ YD	159
28200200	FILTER FABRIC	SQ YD	159
31100500	SUB-BASE GRANULAR MATERIAL, TYPE A 6"	SQ YD	242
35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	SQ YD	100
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	217
42001300	PROTECTIVE COAT	SQ YD	217
44000100	PAVEMENT REMOVAL	SQ YD	146
44004250	PAVED SHOULDER REMOVAL	SQ YD	100
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	324
48203037	HOT-MIX ASPHALT SHOULDERS, 10"	SQ YD	352
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50800105	REINFORCEMENT BARS	POUND	29180
50800515	BAR SPLICERS	EACH	164
51500100	NAME PLATES	EACH	1
54003000	CONCRETE BOX CULVERTS	CU YD	180.5
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS	FOOT	525
* 63000025	STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES	FOOT	75

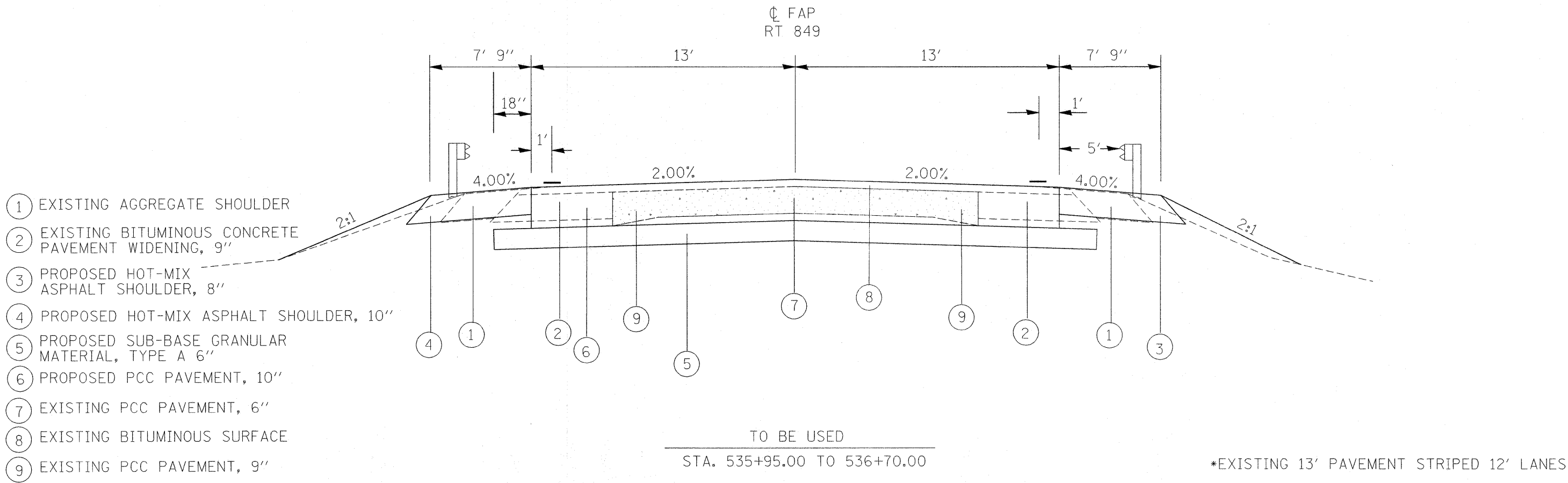
CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL), TANGENT	EACH	4
63200310	GUARDRAIL REMOVAL	FOOT	306
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5
67100100	MOBILIZATION	L SUM	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	2
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
70106700	TEMPORARY RUMBLE STRIP	EACH	6
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	233
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	941
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	78
70400100	TEMPORARY CONCRETE BARRIER	FOOT	375
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	325
* 78005110	EPOXY PAVEMENT MARKING-LINE 4"	FOOT	941
* 78200405	GUARDRAIL MARKERS	EACH	12
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
78300100	PAVEMENT MARKING REMOVAL	SQ FT	109
86200300	UNINTERRUPTIBLE POWER SUPPLY, EXTENDED	EACH	1
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	461
X0324118	GRANULAR CULVERT BACKFILL	CU YD	312
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
* Z0054517	ROCK FILL - FOUNDATION	TON	344
Z0073500	TEMPORARY SUPPORT SYSTEM	L SUM	1

** Specialty Items*

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES IL 142 OVER UNNAMED STREAM	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = #DATE#	CHECKED -	REVISED -			CONTRACT NO. 78085					
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



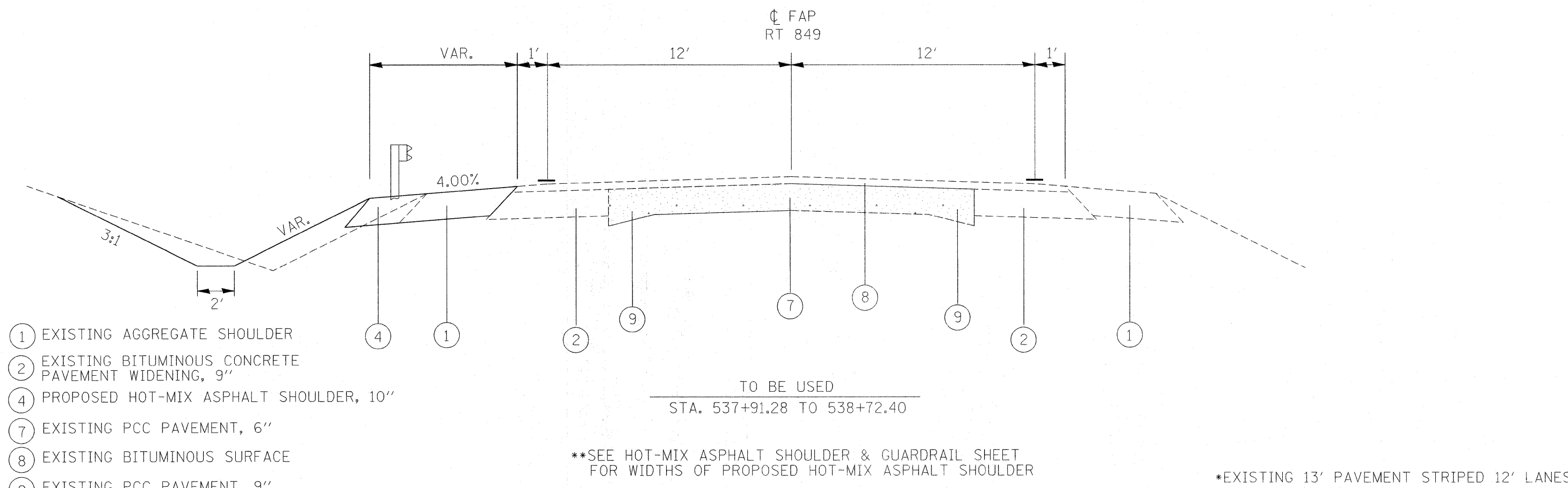
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PLOT SCALE = 50.000' / IN.	CHECKED -	REVIS	REVIS		CONTRACT NO. 78085							
PLOT DATE = 12/9/2009	DATE -	REVIS	REVIS		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	



- ① EXISTING AGGREGATE SHOULDER
- ② EXISTING BITUMINOUS CONCRETE PAVEMENT WIDENING, 9"
- ③ PROPOSED HOT-MIX ASPHALT SHOULDER, 8"
- ④ PROPOSED HOT-MIX ASPHALT SHOULDER, 10"
- ⑤ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE A 6"
- ⑥ PROPOSED PCC PAVEMENT, 10"
- ⑦ EXISTING PCC PAVEMENT, 6"
- ⑧ EXISTING BITUMINOUS SURFACE
- ⑨ EXISTING PCC PAVEMENT, 9"

TO BE USED
STA. 535+95.00 TO 536+70.00

*EXISTING 13' PAVEMENT STRIPED 12' LANES



- ① EXISTING AGGREGATE SHOULDER
- ② EXISTING BITUMINOUS CONCRETE PAVEMENT WIDENING, 9"
- ④ PROPOSED HOT-MIX ASPHALT SHOULDER, 10"
- ⑦ EXISTING PCC PAVEMENT, 6"
- ⑧ EXISTING BITUMINOUS SURFACE
- ⑨ EXISTING PCC PAVEMENT, 9"

TO BE USED
STA. 537+91.28 TO 538+72.40

**SEE HOT-MIX ASPHALT SHOULDER & GUARDRAIL SHEET FOR WIDTHS OF PROPOSED HOT-MIX ASPHALT SHOULDER

*EXISTING 13' PAVEMENT STRIPED 12' LANES

FILE NAME =	USER NAME = halsteadw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS IL 142 OVER UNNAMED STREAM			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 50.000' / IN.	DATE -	REVISED -	REVISED -		CONTRACT NO. 78085							
PLOT DATE = 10/9/2009	DATE -	REVISED -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

EARTHWORK

LOCATION STATION TO STATION	EARTH EXCAVATION CU YD	FOR INFORMATION ONLY				BORROW SWELL FACTOR %	BORROW EXCAVATION CU YD	REMARKS
		AVERAGE SHRINKAGE FACTOR %	EARTH EXCAVATION (ADJUSTED) CU YD	EMBANKMENT CU YD	EARTHWORK BALANCE WASTE (+) SHORTAGE (-) CU YD			
STAGE 1								
LT STA 534+61.02 TO 538+84.31	46	41.7	19	95	-76	.18	90	
STAGE 2								
RT STA 533+41.24 TO 538+02.35	56	41.7	23	200	-177	.18	209	
PROJECT TOTAL	102						299	

EROSION CONTROL

LOCATION STATION TO STATION	EROSION CONTROL BLANKET	PERIMETER EROSION BARRIER
	SQ YD	FOOT
STAGE 1		
LT STA 534+62.20 TO 536+12.97	208	
LT STA 534+62.20 TO 536+04.50		152
LT STA 536+42.79 TO 538+83.65	304	
LT STA 536+50.00 TO 538+83.65		251
STAGE 2		
RT STA 533+41.24 TO 536+20.94	519	
RT STA 533+41.24 TO 536+13.6		271
RT STA 536+51.36 TO 538+00.95	225	
RT STA 536+67.00 TO 538+00.95		143
PROJECT TOTAL	1256	817

GUARDRAIL

LOCATION STATION TO STATION	STEEL PLATE BEAM GUARDRAIL, TYPE A 6.75 POSTS	STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	GUARDRAIL REMOVAL	TERMINAL MARKER DIRECT APPLIED
	FOOT	FOOT	EACH	FOOT	EACH
STAGE 1					
LT STA 534+72.40			1		1
LT STA 535+22.40 TO 536+09.90	87.5				
LT STA 536+09.90 TO 536+47.40		37.5			
LT STA 536+47.40 TO 538+22.40	175				
LT STA 538+72.40			1		1
LT STA 535+52.03 TO 537+05.17				153	
STAGE 2					
RT STA 533+91.28			1		1
RT STA 534+41.28 TO 536+16.28	175				
RT STA 536+16.28 TO 536+53.78		37.5			
RT STA 536+53.78 TO 537+41.28	87.5				
RT STA 537+91.28			1		1
RT STA 535+51.27 TO 537+04.17				153	
PROJECT TOTAL	525	75	4	306	4

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES IL 142 OVER UNNAMED STREAM	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT DATE = #DATE#		DATE -	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.

PAVEMENT

LOCATION STATION TO STATION	PORTLAND CEMENT CONCRETE PAVEMENT 10"	HOT-MIX ASPHALT SHOULDERS, 8"	HOT-MIX ASPHALT SHOULDERS, 10"	SUB-BASE GRANULAR MATERIAL TYPE A, 6"	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	PROTECTIVE COAT
	SQ. YD.	SQ. YD.	SQ. YD.	SQ. YD.	SQ. YD.	SQ. YD.
PRE-STAGE 1						
RT STA 534+70.00 TO 536+15.12					49	
RT STA 536+41.09 TO 537+95.10					51	
STAGE 1						
LT STA 534+61.02 TO 538+84.31			352			
STA 535+95.00 TO 536+70.00	100			113		100
STAGE 2						
RT STA 533+79.24 TO 538+02.35		324				
STA 535+95.00 TO 536+70.00	117			129		117
PROJECT TOTAL	217	324	352	242	100	217

REMOVAL

LOCATION STATION TO STATION	PAVEMENT REMOVAL	PAVED SHOULDER REMOVAL
	SQ YD	SQ YD
STAGE 1		
STA 535+95.00 TO 536+15.17	32	
STA 536+41.09 TO 536+70.00	44	
STAGE 2		
RT STA 534+70.00 TO 536+15.12		49
STA 535+95.00 TO 536+15.17	29	
STA 536+41.09 TO 536+70.00	41	
RT STA 536+41.09 TO 537+95.10		51
PROJECT TOTAL	146	100

SEEDING

LOCATION STATION TO STATION	SEEDING, CLASS 2	SEEDING, CLASS 7	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH METHOD 2
	ACRE	ACRE	POUND	POUND	POUND	TON	ACRE
STAGE 1							
LT STA 534+36.28 TO 538+98.74	.11	.11	14	10	10	.22	.11
STAGE 2							
RT STA 533+41.24 TO 538+05.40	.15	.15	20	14	14	.30	.15
PROJECT TOTAL	.26	.26	34	24	24	.52	.26

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES IL 142 OVER UNNAMED STREAM	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		CHECKED -	REVISED -			CONTRACT NO. 78085					
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET NO. OF SHEETS		STA. TO STA.			

PERMANENT PAVEMENT MARKINGS

LOCATION STATION TO STATION	EPOXY PAVEMENT MARKING		
	LINE 4"		
	SOLID WHITE FOOT	SOLID YELLOW FOOT	SKIP DASH FOOT
STAGE 2			
LT STA 534+61.02 TO LT STA 538+84.31	423		
STA 535+95 TO STA 536+70		75	20
RT STA 533+79.24 TO RT STA 538+02.35	423		
PROJECT TOTAL		941	

CONCRETE BARRIER

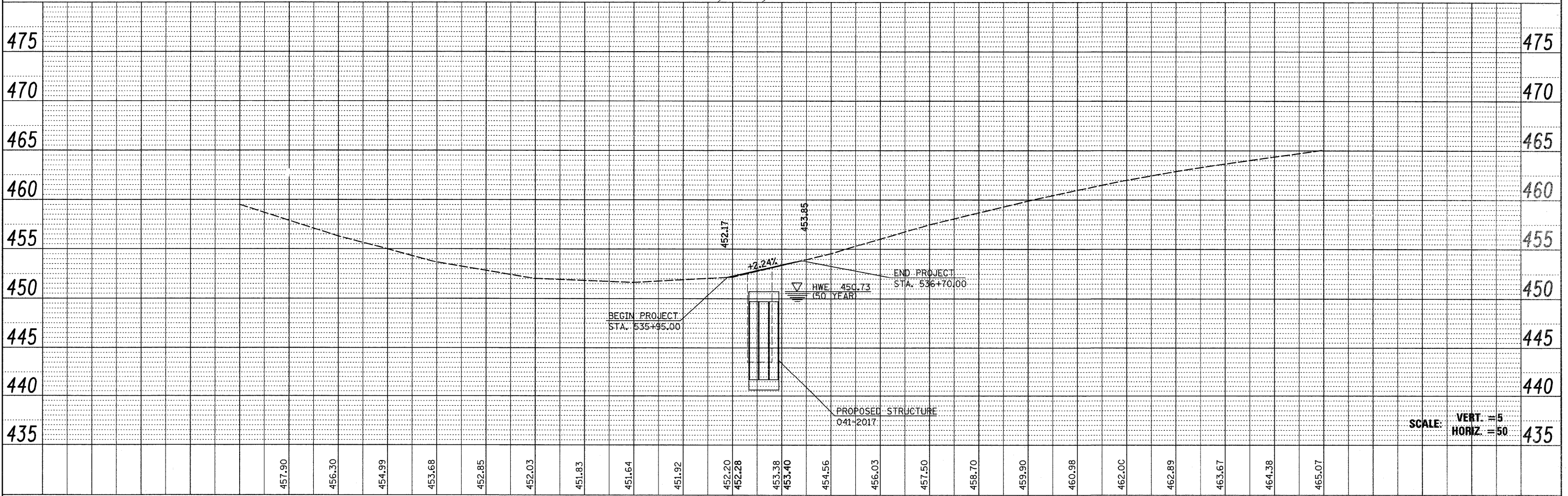
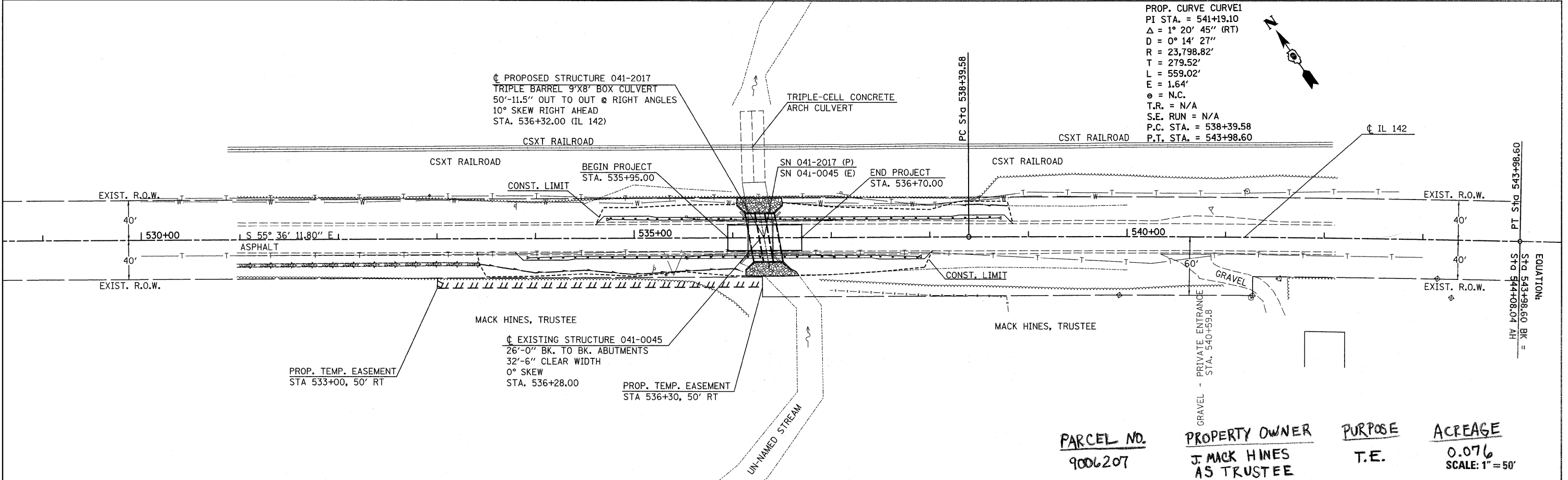
LOCATION STATION TO STATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE) TEST LEVEL 3
	FOOT	FOOT	EACH	EACH
STAGE 1				
STA 534+70.00 TO 537+95.00	325		2	
STAGE 2				
STA 534+45.40 TO 538+19.65	50	325		2
PROJECT TOTAL	375	325	2	2

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		DATE -	REVISED -							




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REVISIONS	
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ALIGNED	
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PLAN	
NOTE BOOK	
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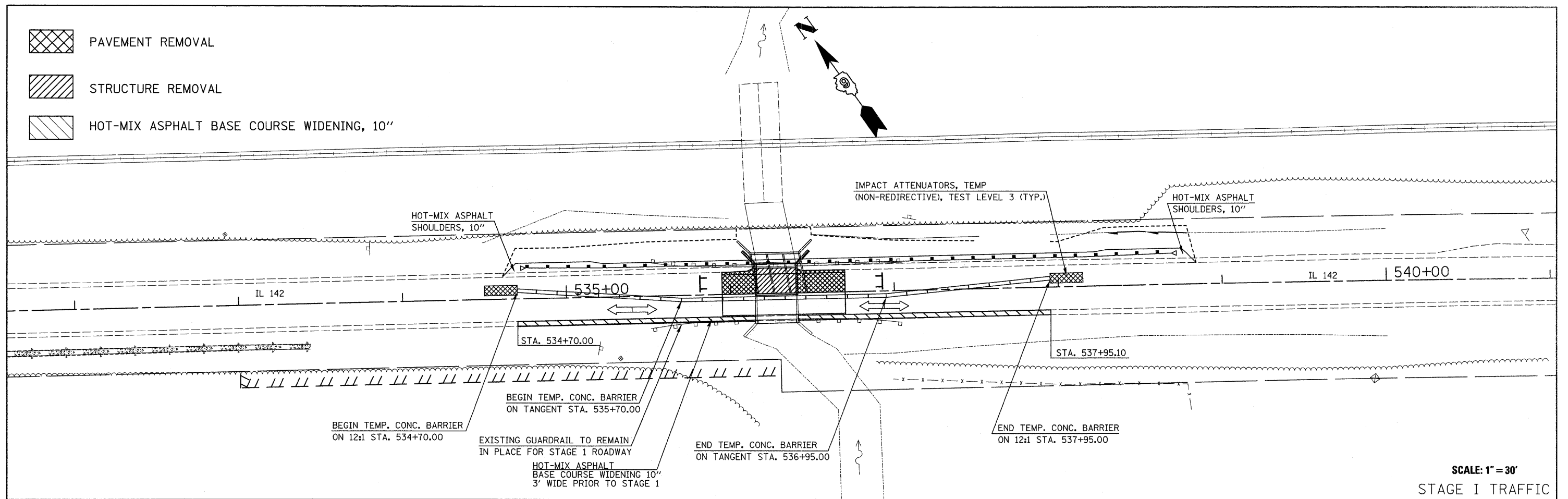
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GRADES	
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PROFILE	
NOTE BOOK	
NO.	

PROP. CURVE CURVE1
 PI STA. = 541+19.10
 $\Delta = 1^\circ 20' 45''$ (RT)
 $D = 0^\circ 14' 27''$
 $R = 23,798.82'$
 $T = 279.52'$
 $L = 559.02'$
 $e = 1.64'$
 $\theta =$ N.C.
 T.R. = N/A
 S.E. RUN = N/A
 P.C. STA. = 538+39.58
 P.T. STA. = 543+98.60






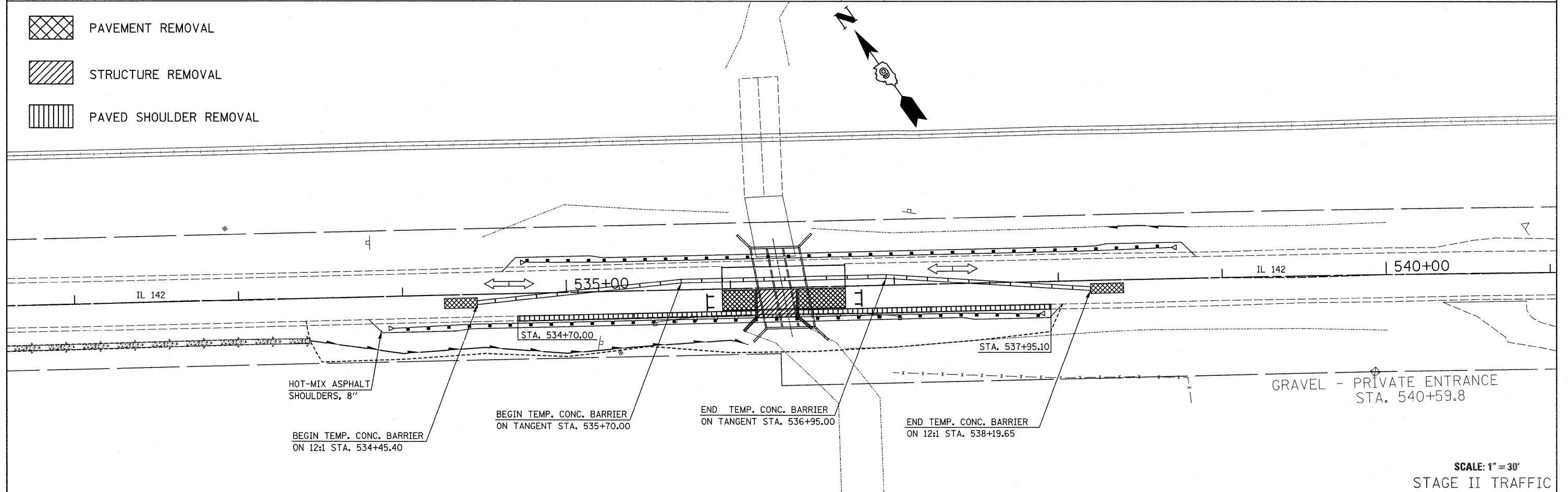
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		CHECKED -	REVISED -			CONTRACT NO. 78085					
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET NO.	OF	SHEETS	STA. 535+95.00 TO STA. 536+70.00		

-  PAVEMENT REMOVAL
-  STRUCTURE REMOVAL
-  HOT-MIX ASPHALT BASE COURSE WIDENING, 10"



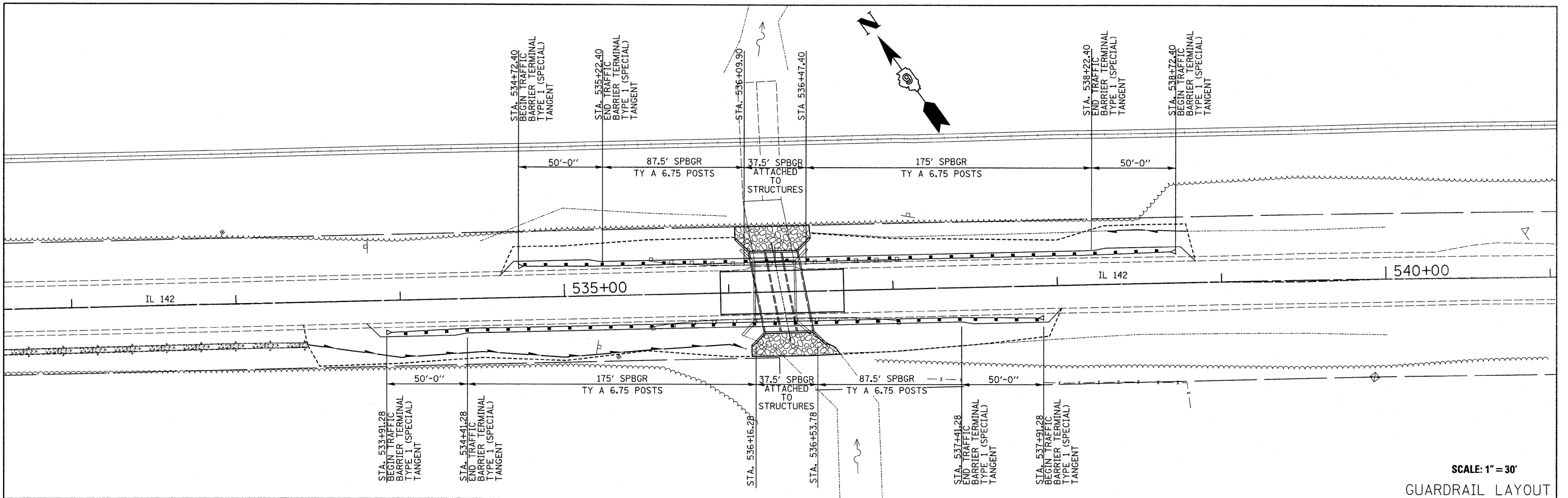
SCALE: 1" = 30'
STAGE I TRAFFIC

-  PAVEMENT REMOVAL
-  STRUCTURE REMOVAL
-  PAVED SHOULDER REMOVAL

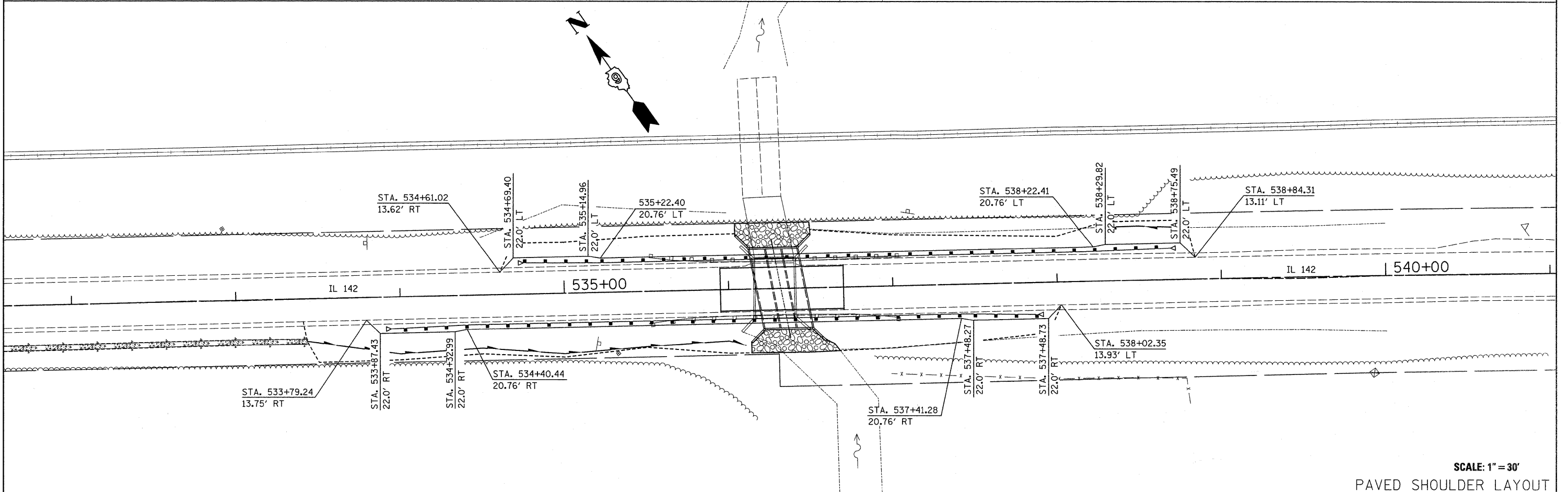


SCALE: 1" = 30'
STAGE II TRAFFIC

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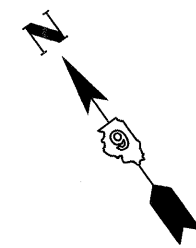


SCALE: 1" = 30'
GUARDRAIL LAYOUT

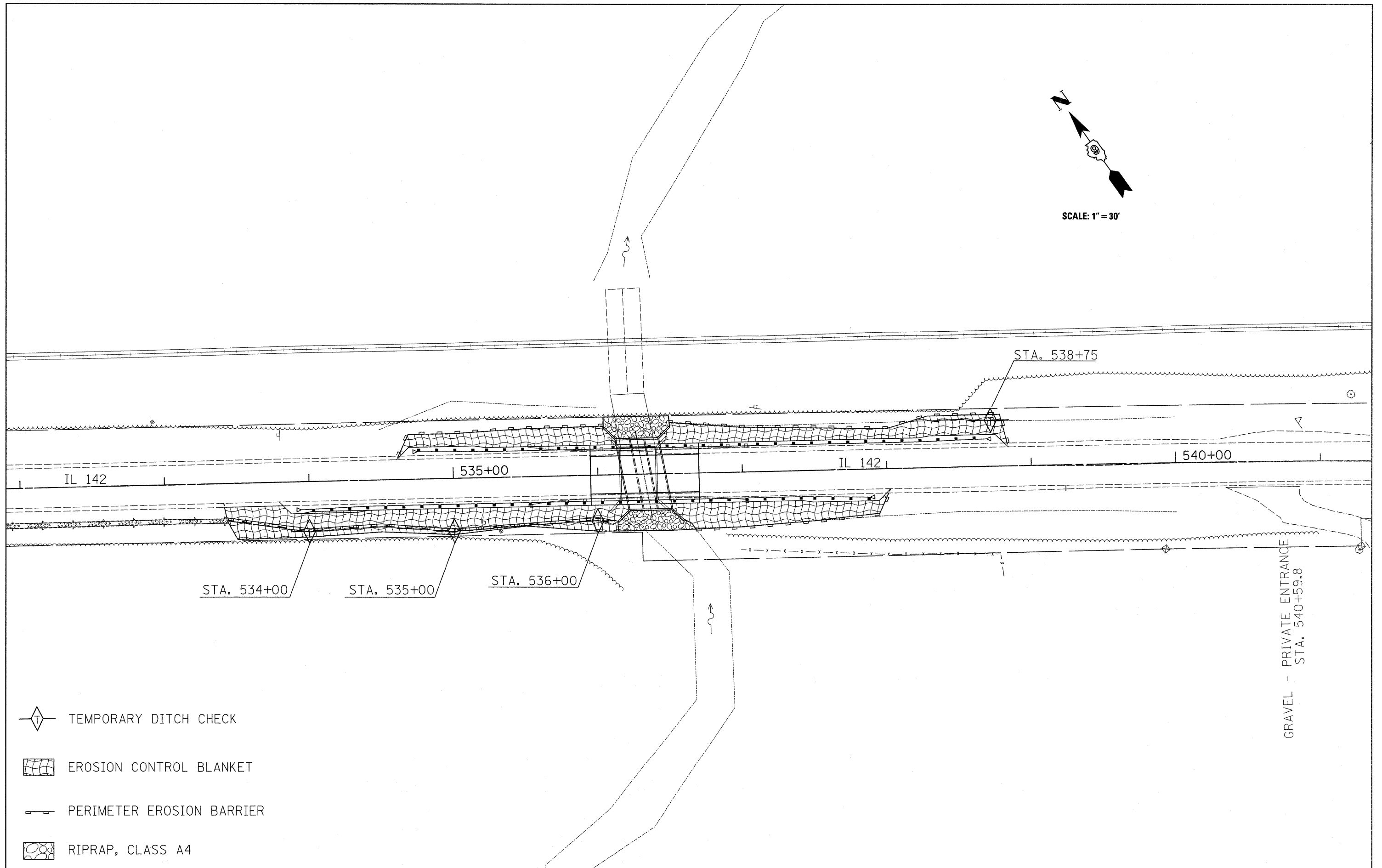






SCALE: 1" = 30'
PAVED SHOULDER LAYOUT

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVED SHOULDER AND GUARDRAIL LAYOUT IL 142 OVER UNNAMED STREAM			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL#	PLOT SCALE = #SCALE#	DRAWN -	REVISED -					849	113B-1	JEFFERSON	24	11
	PLOT DATE = #DATE#	CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 78085				
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				



SCALE: 1" = 30'



-  TEMPORARY DITCH CHECK
-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER
-  RIPRAP, CLASS A4

GRAVEL - PRIVATE ENTRANCE
STA. 540+59.8

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION PLAN IL 142 OVER UNNAMED STREAM	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN -	REVISED -			849	113B-1	JEFFERSON	24	12
		CHECKED -	REVISED -			CONTRACT NO. 78085				
		DATE -	REVISED -	SCALE: SHEET NO. OF SHEETS STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

Benchmark: Chiseled "□" on northwest wingwall of S.N. 041-0045 at Sta. 536+28, Elev. 451.77

Existing Structure: S.N. 041-0045 was built in 1928 as SBI Route 142, Section 113-B at Sta. 536+28. Existing Structure is a single span RC slab bridge on closed abutments restrained top and bottom. 26'-0" bk. to bk. abutments, 36'-2" out to out with no skew. The contractor shall remove and replace the existing structure with a reinforced concrete triple barrel box culvert. Stage Construction shall be utilized to maintain one lane of traffic during construction.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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

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

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

Precast alternate is not allowed.

Backfill within the limits of the paved surface to the top of culvert elevation shall be performed according to the special provision for Granular Culvert Backfill.

INDEX OF SHEETS

1. General Plan
2. Stage Construction Details
3. Culvert Details
4. Bar Splicer Assembly Details
5. Temporary Concrete Barrier
6. Soil Borings

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

FIELD UNITS

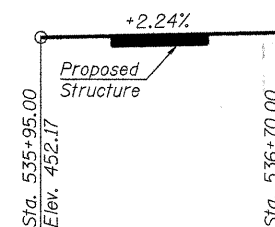
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

LOADING HS20-44

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

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Riprap, Class A5	Sq. Yd.	159
Filter Fabric	Sq. Yd.	159
Removal of Existing Structures	Each	1
Reinforcement Bars	Pound	29180
Bar Splicers	Each	164
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	180.5
Granular Culvert Backfill	Cu. Yd.	312
Temporary Soil Retention System	Sq. Ft.	461
Rock Fill-Foundation	Ton	344
Temporary Support System	L. Sum	1



PROFILE GRADE

(along @ IL Rte. 142)

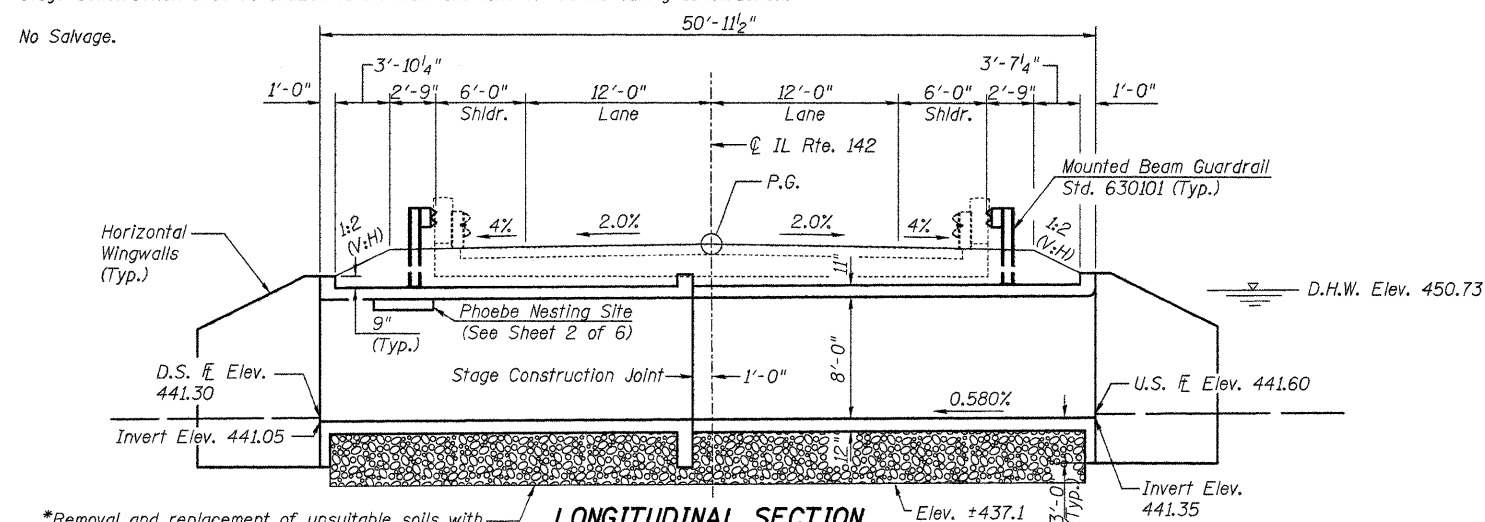
DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	D.S. Invert	U.S. Invert
	438.05	438.35

WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Nat.		Head - Ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Drainage Area = 1.91 sq. mi.			Exist. Low Grade Elev. 451.73 @ Sta. 535+00 Prop. Low Grade Elev. 451.73 @ Sta. 535+00						
Design	10	790	154.8	194.8	448.82	0.12	0.00	448.94	448.82
Base	50	1298	190.5	216.0	450.73	0.41	0.06	451.14	450.79
Overtopping	100	1527	190.5	216.0	451.44	1.17	0.35	452.61	451.79
Max. Calc.	-	1563	190.5	216.0	451.65	1.32	0.25	452.97	451.90

10 year velocity through existing bridge (main channel) = 5.09 fps
10 year velocity through prop. bridge (main channel) = 4.04 fps

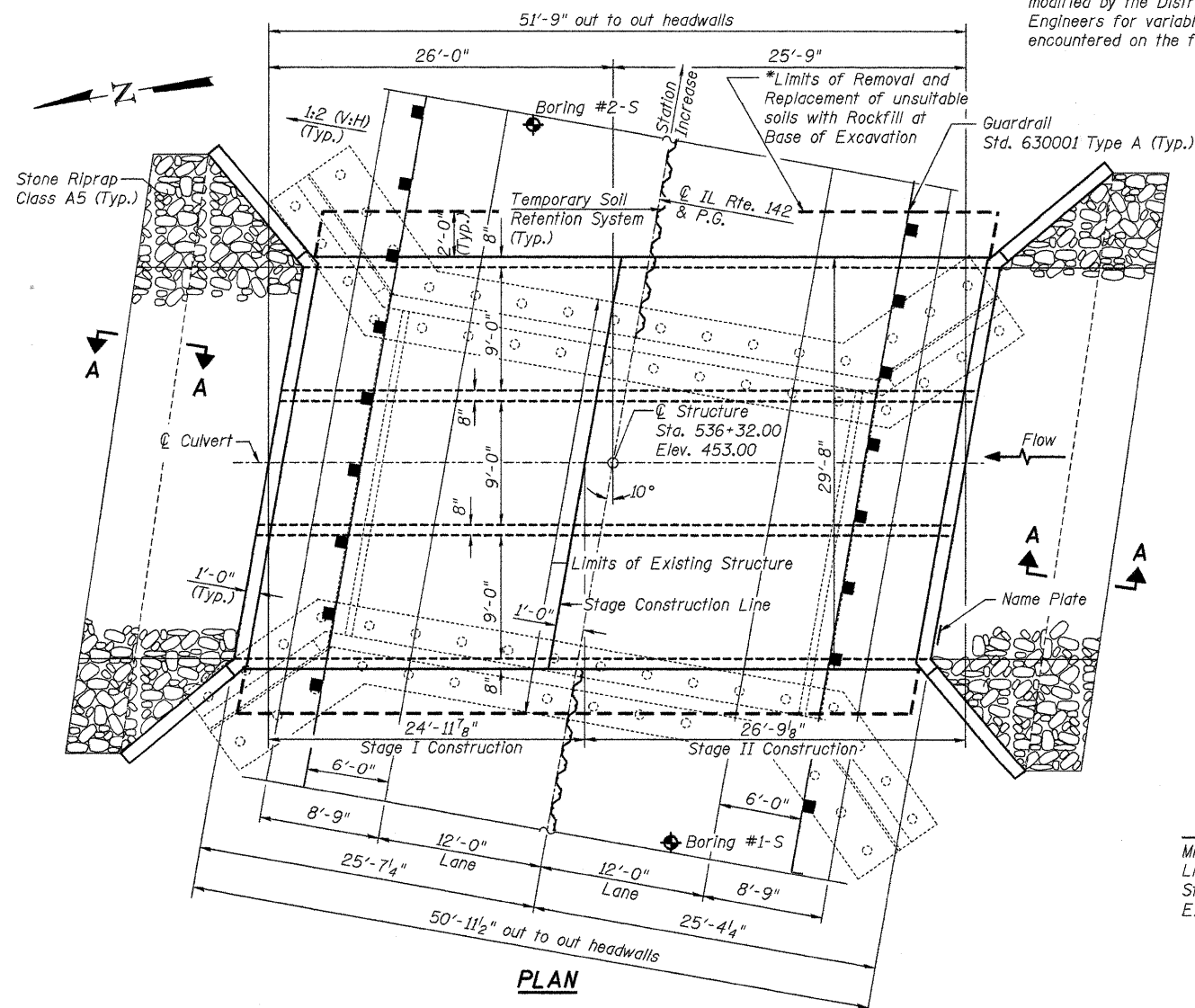


LONGITUDINAL SECTION

(Looking East)
(Dimensions at Rf. L's to @ IL 142)

*Removal and replacement of unsuitable soils with Rock Fill-Foundation may be required beneath the culvert. Rockfill to be capped with 6" of CA7. Cost included with Rock Fill-Foundation.

*The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered on the field.

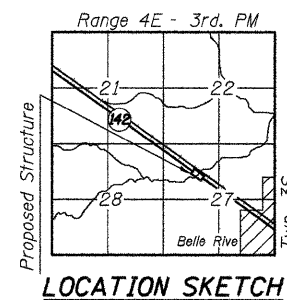


PLAN

STATION 536+32.00
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RT. 849 SEC. 113-B
LOADING HS20-44
STR. NO. 041-2017

NAME PLATE

See Std. 515001



LOCATION SKETCH

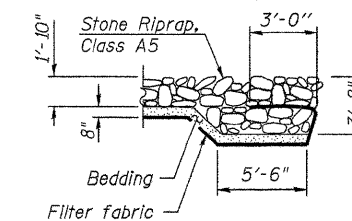
APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Michael T. Haley (TSB)
ENGINEER OF BRIDGES AND STRUCTURES



Michael T. Haley
Licensed Structural Engineer
State of Illinois No. 81-5991
Expires 11/30/2010

9/15/09 Date



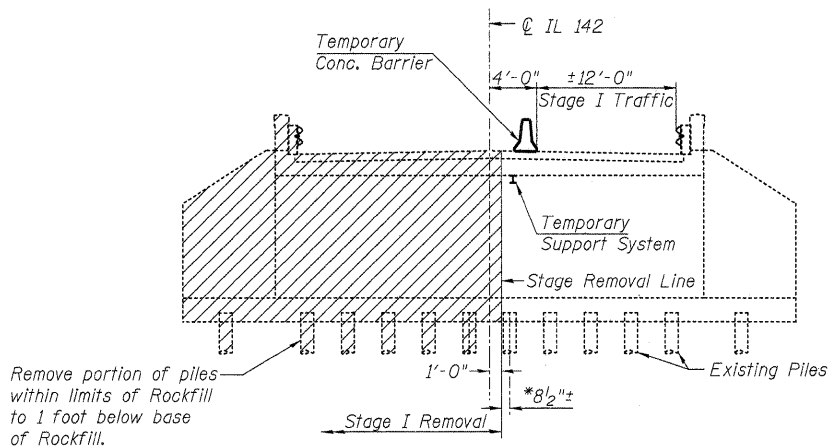
SECTION A-A

	SHEET NO. 1	F.A.P. RTE. 849	SECTION 113-B	COUNTY JEFFERSON	TOTAL SHEETS 24	SHEET NO. 14
	6 SHEETS	CONTRACT NO. 78085		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

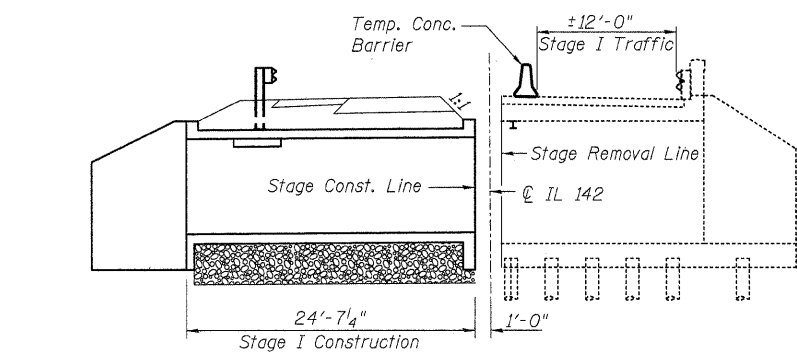
GENERAL PLAN
IL RT. 142 OVER UNNAMED STREAM
F.A.P. RTE. 849 - SEC. 113-B
JEFFERSON COUNTY
STATION 536+32.00
STRUCTURE NO. 041-2017

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

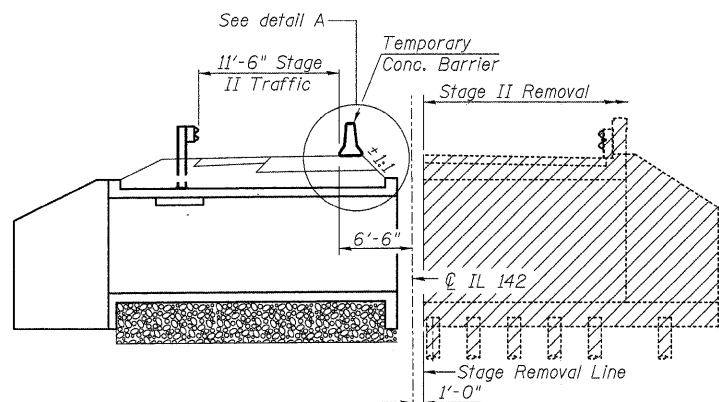
*Contractor shall take precaution during removal so as not to expose the existing pile.



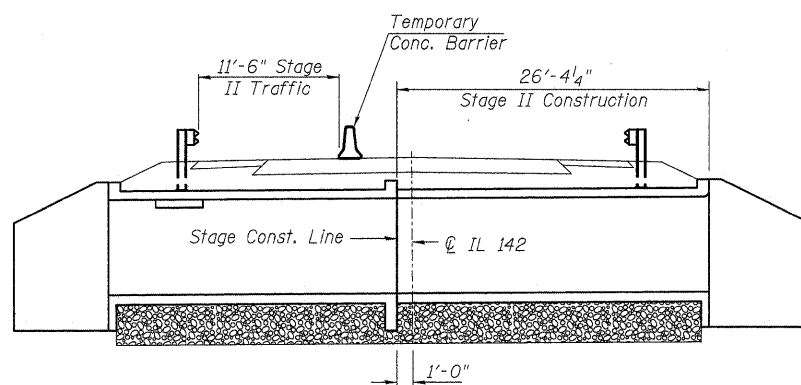
STAGE I REMOVAL



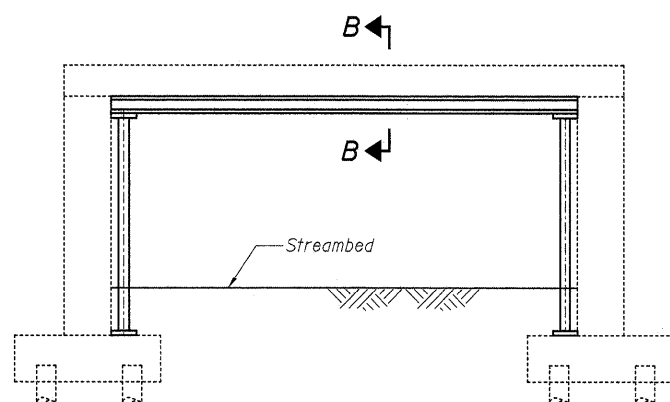
STAGE I CONSTRUCTION



STAGE II REMOVAL

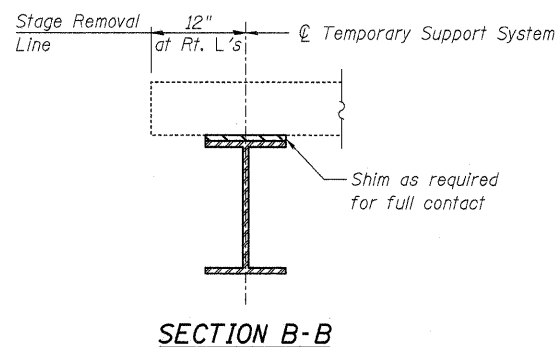


STAGE II CONSTRUCTION

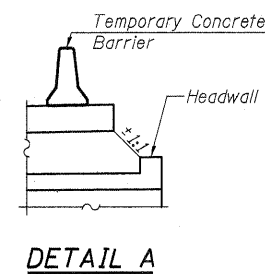


TEMPORARY SUPPORT SYSTEM

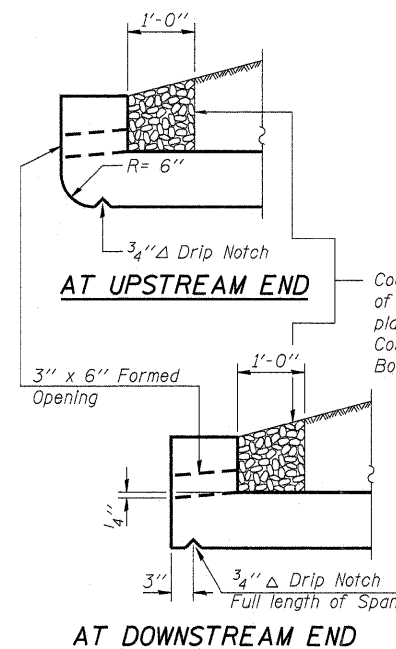
- Notes:
1. Place Temporary Support prior to Stage I Removal
 2. Place Temporary Support along skew.
 3. Temporary Support System shall not be painted.



SECTION B-B



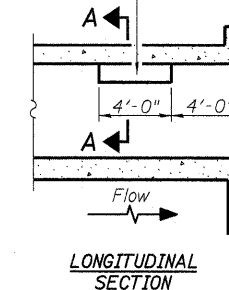
DETAIL A



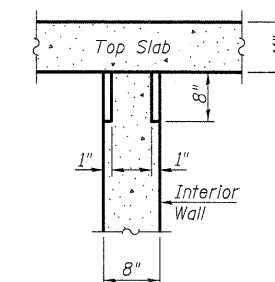
AT UPSTREAM END

AT DOWNSTREAM END

DRAIN DETAIL

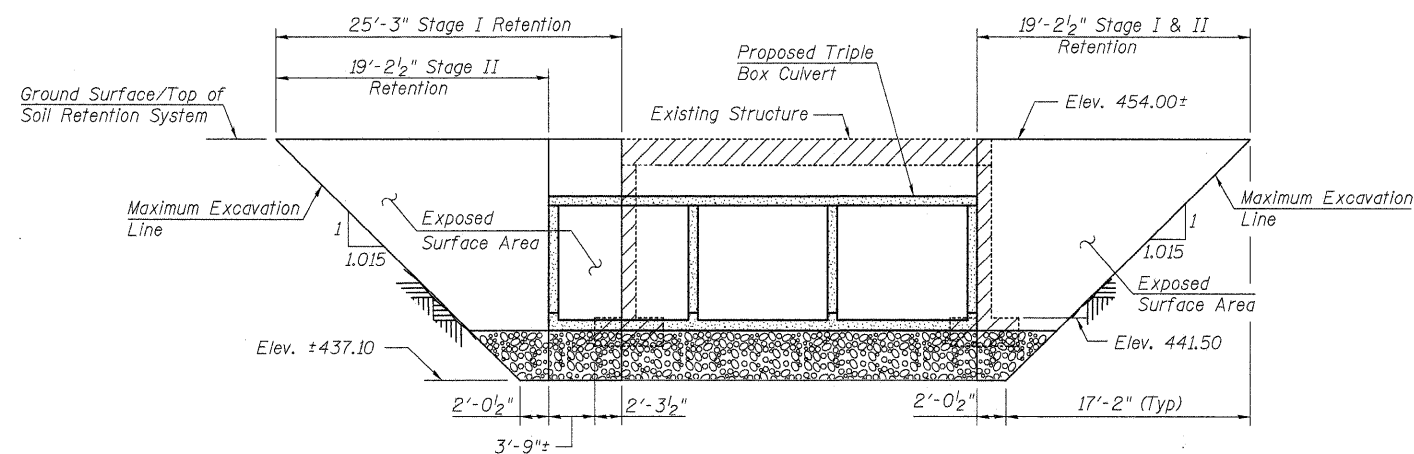


LONGITUDINAL SECTION



SECTION A-A

**PHOEBE NESTING
SITE DETAILS
(Downstream End Only)**



TEMPORARY SOIL RETENTION SYSTEM

(Looking South) (Dimensions along Stage Construction Line)

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

- Notes:
1. Hatched area indicates Removal of Existing Structures.
 2. All staging cross sections are looking east.
 3. All dimensions are perpendicular to \bar{C} Roadway unless noted otherwise.
 4. For details of Temporary Concrete Barrier, see Sheet 5 of 6.
 5. For quantity of Temporary Concrete Barrier, see Roadway Plans.
 6. Portions of existing abutments and wingwalls not interfering with new construction shall be removed per Standard Specifications.
 7. The Contractor shall brace the Rock Fill if required during excavation for stage II construction. Cost Included with Rock Fill-Foundation.

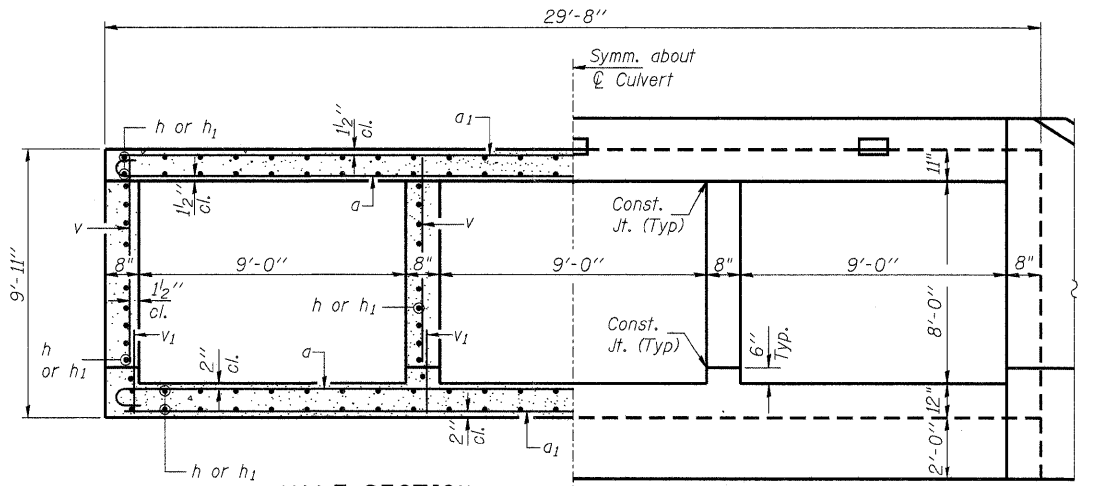
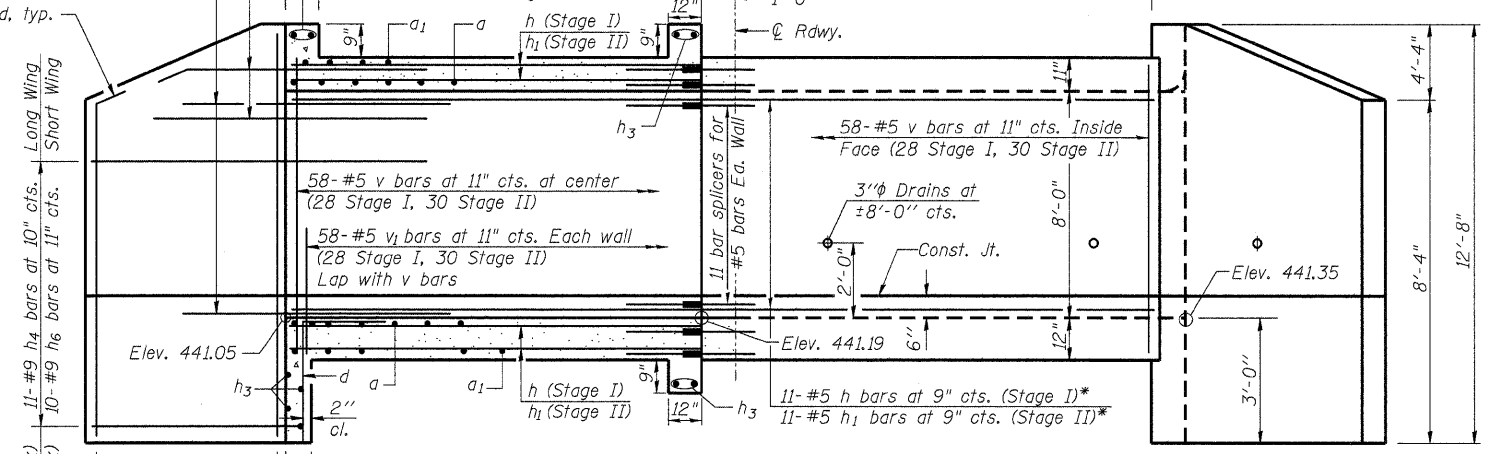
**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 041-2017**

LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois	SHEET NO. 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	6 SHEETS	849	113-B	JEFFERSON	24	15	
		CONTRACT NO. 78085					
		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

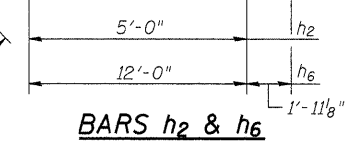
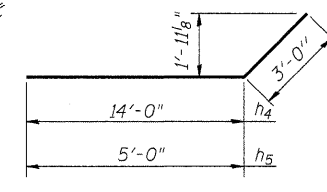
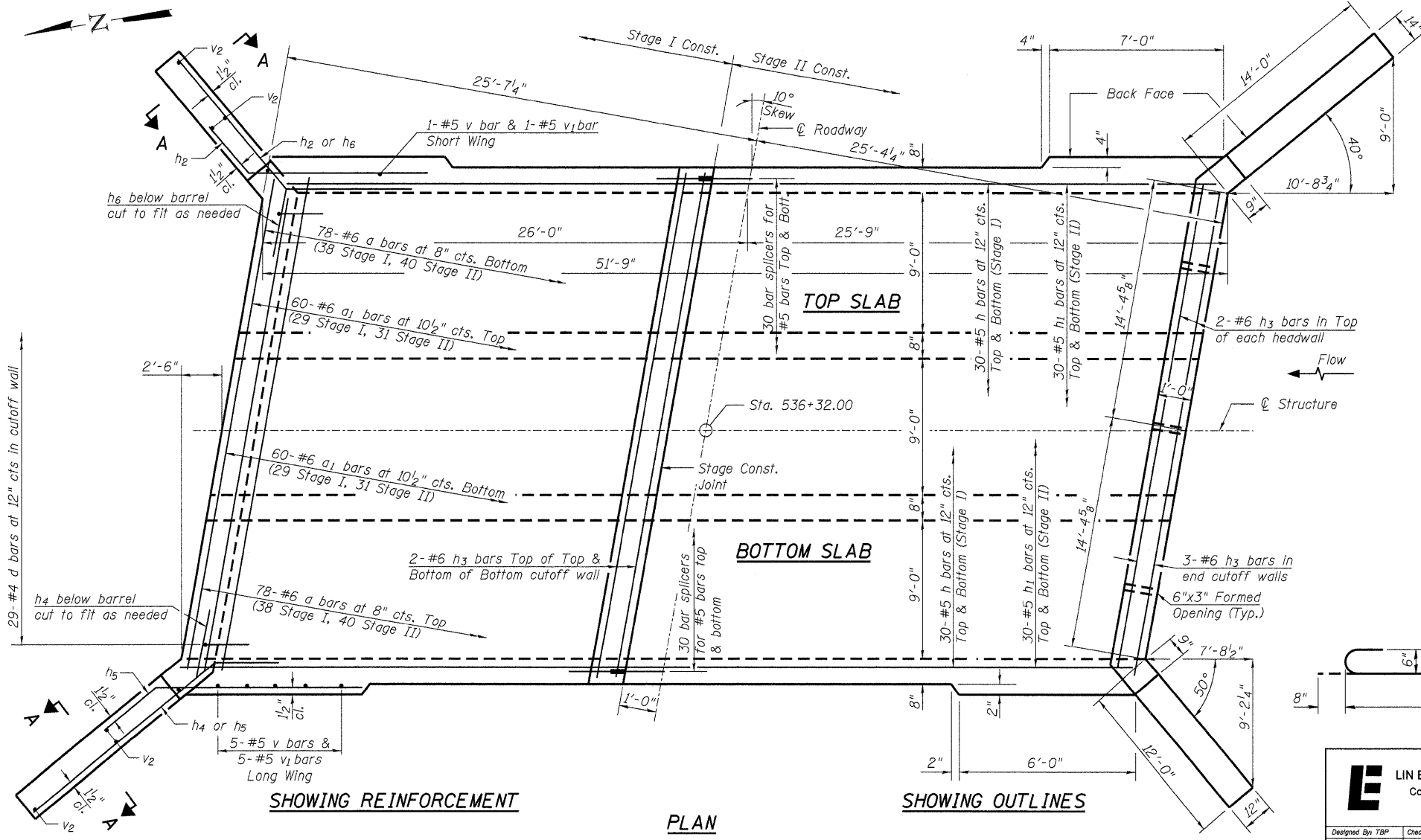
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

(Back)
4-#9 h₂ bars at 11" cts. Short Wing
4-#9 h₅ bars at 10" cts. Long Wing

(Front)
9-#9 h₂ bars at 11" cts. Short Wing
10-#9 h₅ bars at 10" cts. Long Wing

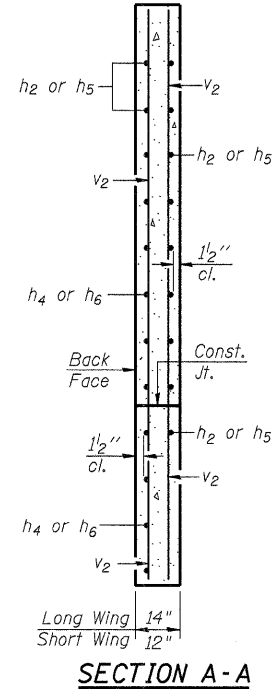
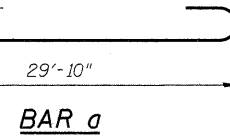
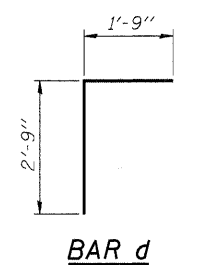


Notes:
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.



BARS h₄ & h₅

BARS h₂ & h₆



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	156	#6	31'-2"	U
a ₁	120	#6	29'-6"	—
d	58	#4	4'-6"	L
h	164	#5	24'-9"	—
h ₁	164	#5	26'-6"	—
h ₂	26	#9	8'-0"	—
h ₃	14	#6	29'-8"	—
h ₄	22	#9	17'-0"	—
h ₅	28	#9	8'-0"	—
h ₆	20	#9	15'-0"	—
v	244	#5	8'-2"	—
v ₁	244	#5	4'-0"	—
v ₂	16	#4	12'-5"	—
Concrete Box Culverts			Cu. Yd.	180.5
Reinforcement Bars			Pound	29180

**CULVERT DETAILS
STRUCTURE NO. 041-2017**

<p>LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois</p>	SHEET NO. 3	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	6 SHEETS	849	113-B	JEFFERSON	24	16
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT			
			CONTRACT NO. 78085			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity = $1.25 \times f_y \times A_f$
(Tension in kips)
- ② Minimum *Pull-out Strength = $0.66 \times f_y \times A_f$
(Tension in kips)

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

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-2"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8

The diameter of this part is equal or larger than the diameter of bar spliced.

The diameter of this part is the same as the diameter of the bar spliced.

ROLLED THREAD DOWEL BAR



** ONE PIECE

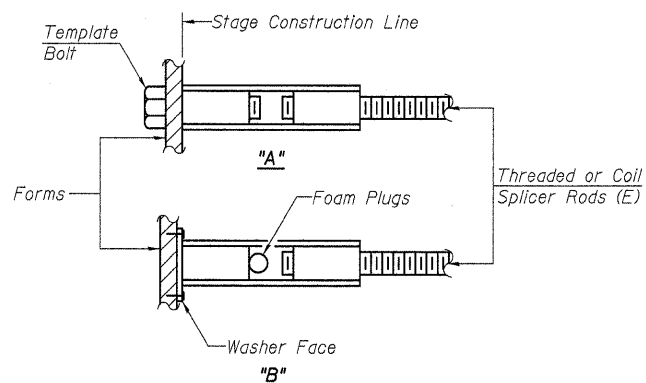
Wire Connector



WELDED SECTIONS

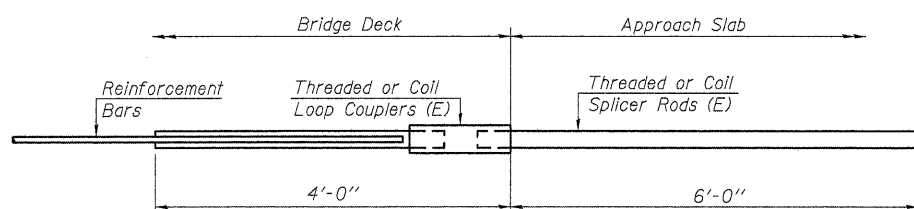
BAR SPLICER ASSEMBLY ALTERNATIVES

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



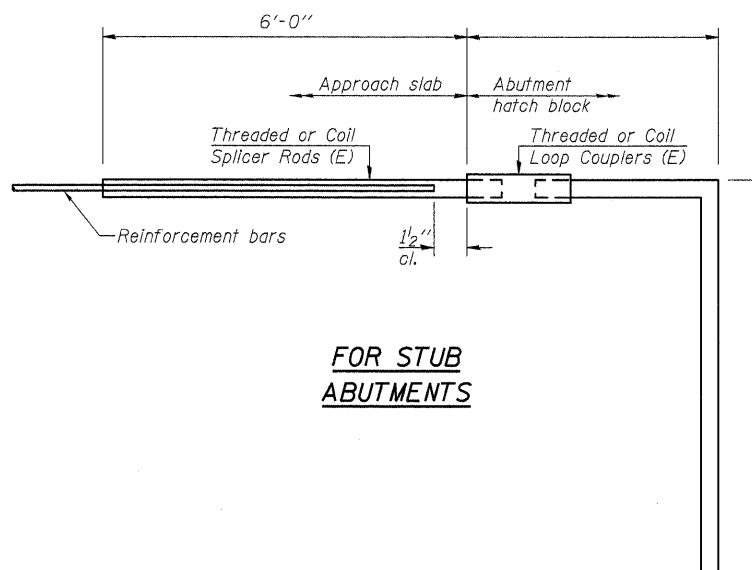
INSTALLATION AND SETTING METHODS

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



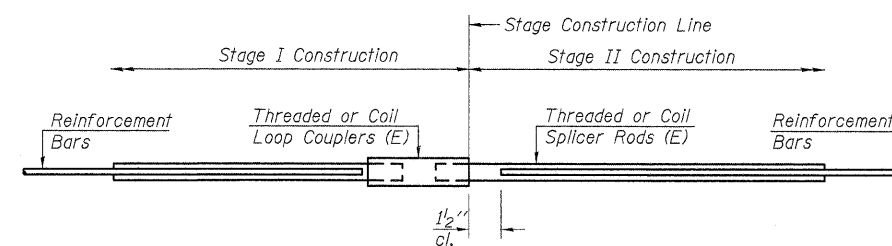
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

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



FOR STUB ABUTMENTS

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



STANDARD

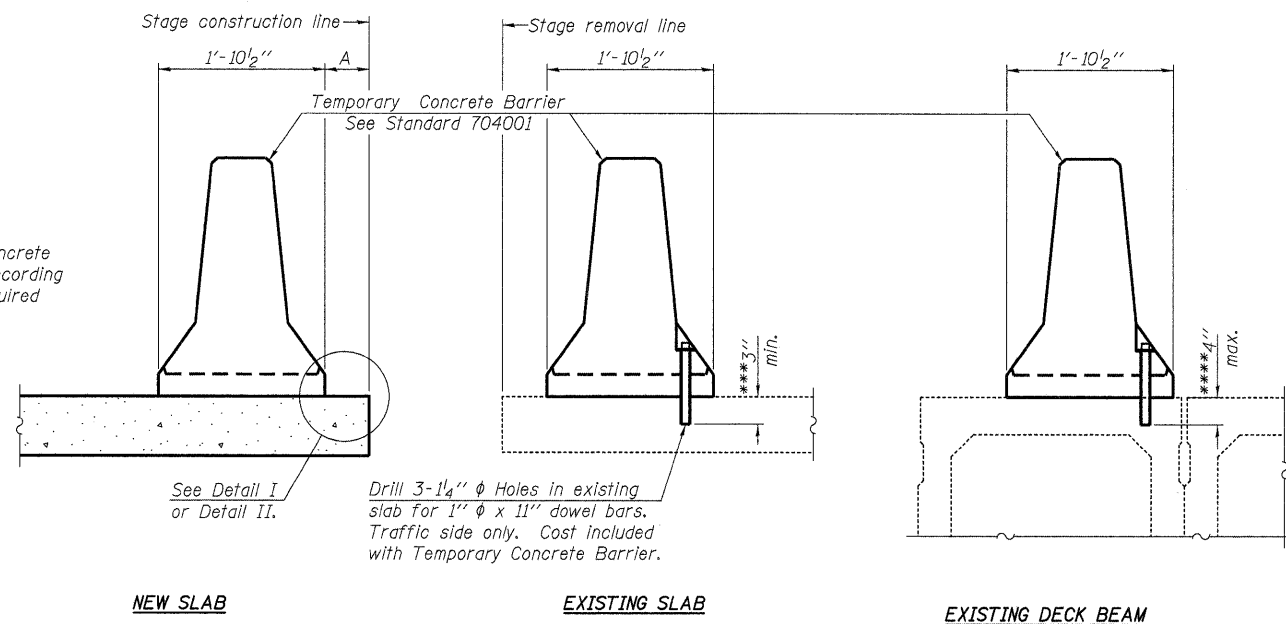
Bar Size	No. Assemblies Required	Location
#5	60	Top Slab
#5	60	Bottom Slab
#5	44	Walls

**BAR SPLICER ASSEMBLY DETAILS
STRUCTURE NO. 041-2017**

<p>LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois</p>	SHEET NO. 4	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	6 SHEETS	849	113-B	JEFFERSON	24	17
		CONTRACT NO. 78085				
		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



NEW SLAB

EXISTING SLAB

EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

NOTES

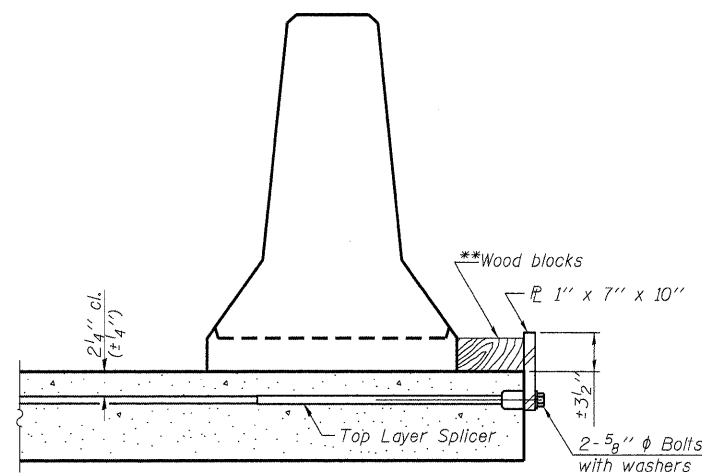
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel \bar{L} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel \bar{L} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

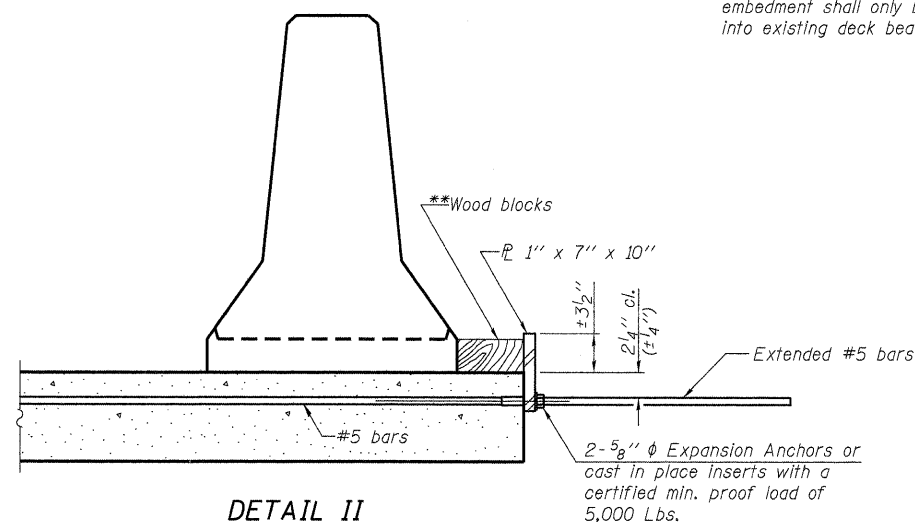
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

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

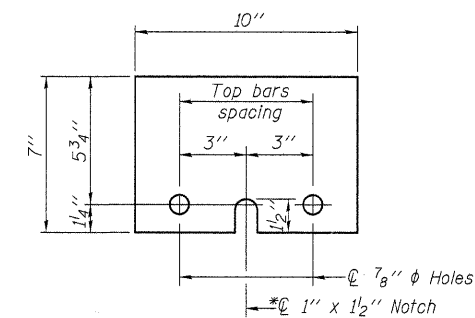
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER \bar{L} 1' x 7' x 10"

* Required only with Detail II

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

TEMPORARY CONCRETE BARRIER
STRUCTURE NO. 041-2017

<p>LIN ENGINEERING, LTD. Consulting Engineers Channah, Illinois</p>	SHEET NO. 5	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	6 SHEETS	849	113-B	JEFFERSON	24	18
		CONTRACT NO. 78085				
		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation
Boring Log
Sheet 1 of 1

FAP 849 (IL 142) Over stream
Route: FAP 849 (IL 142) Structure Number: 041-0045 Date: 10/17/2007
Section 113-B Bored By: R Moberly
County: Jefferson Location: T3S, R4E, Section 27 Checked By: R Moberly

DEPT	BLOS	Qu	W%	Surf Wat Elev:	DEPT	BLOS	Qu	W%
450.2				440.9				
Asphalt, Concrete, & Aggregate				Ground Water Elevation when Drilling				
				At Completion				
450.2				At: Hrs:				
Stiff, moist, grey, Silty Clay to Silty Clay Loam A-6	2							
	3	1.5B	18					
	3							
447.7								
Medium, very moist, grey, Silty Clay to Silty Clay Loam A-6	5.0	1						
	2	0.9B	30					
	2							
	WH							
	WH	0.6B	25					
	1							
442.7								
Soft, very moist, grey mottled brown, Silty Clay Loam A-4	10.0	WH						
	1	0.4B	24					
	2							
440.2								
Stiff, moist to very moist, grey and brown, Silty Clay Loam to Clay Loam A-6	2							
	3	1.2B	19					
	5							
437.2								
Limestone with Clay Shale layers	15.0	11						
		100/2"						
Cored 15.2 to 19.2 Feet 95% Recovery, 50% RQD								
432.7								
Bottom of Hole = 19.2 feet	20.0							
No free water observed								
Elevation referenced to BM 104 at NW wingwall; Elev = 451.8 ft								
To convert "N" values to "N60" values multiply by 1.25								
	25.0							

N-Std Penr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials


Bridge Foundation
Boring Log
Sheet 1 of 1

FAP 849 (IL 142) Over stream
Route: FAP 849 (IL 142) Structure Number: 041-0045 Date: 10/29/2007
Section 113-B Bored By: R Moberly
County: Jefferson Location: T3S, R4E, Section 27 Checked By: R Moberly

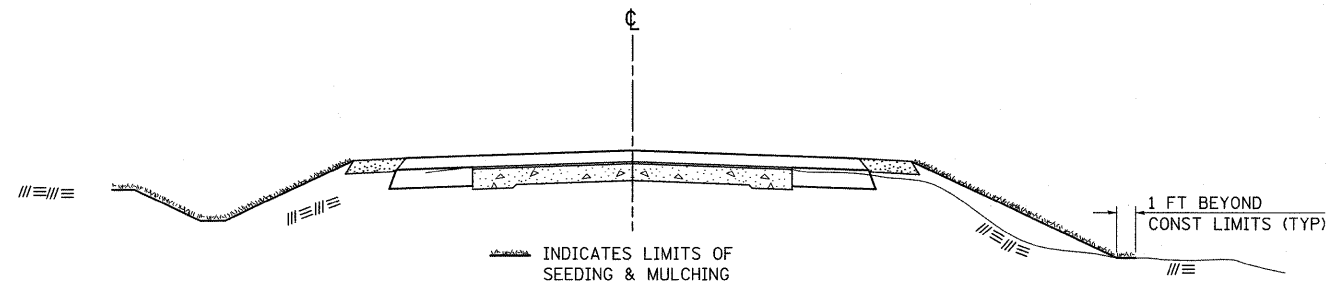
DEPT	BLOS	Qu	W%	Surf Wat Elev:	DEPT	BLOS	Qu	W%
451.2				440.9				
Asphalt and Concrete				Ground Water Elevation when Drilling				
				At Completion				
451.2				At: Hrs:				
Soft, very moist, grey, Silty Clay Loam A-4	WH							
	1	0.4B	26					
	1							
448.7								
Bottom of hole = 28.0 feet								
448.7								
Stiff, moist, grey, Silty Clay A-6	5.0	1						
	2	1.6B	21					
	3							
446.2								
Soft, very moist, grey, Silty Clay A-6	1							
	2	0.4B	27					
	1							
441.2								
Stiff, moist, grey and brown, Clay to Clay Loam A7-6	1							
	2	1.2S	19					
	3							
437.7								
Very dense, damp, brown, Fine to Medium Sand	15.0	3						
		100/2"						
436.2								
Very dense, dry, brown, Sandstone	15.0	3						
		100/2"						
435.2								
Hard, dry, grey, Limestone with Clay Shale layers	20.0							
Cored 18.0 to 23.0 feet 57% Recovery, 7% RQD								
430.2								
Hard, dry, grey, Limestone with Clay Shale layers	25.0							

N-Std Penr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

SOIL BORINGS
STRUCTURE NO. 041-2017

 LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois	SHEET NO. 6	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	6 SHEETS	849	113-B	JEFFERSON	24	19
Designed By: TBP Checked By: MTH Date: 2/2008		Drawn By: TBP File: 041-2017.dgn		CONTRACT NO. 78085		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						

SEEDING & MULCHING



GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

FERTILIZER NUTRIENTS AND LIMESTONE SHALL BE APPLIED TO ALL SEEDDED AREAS.

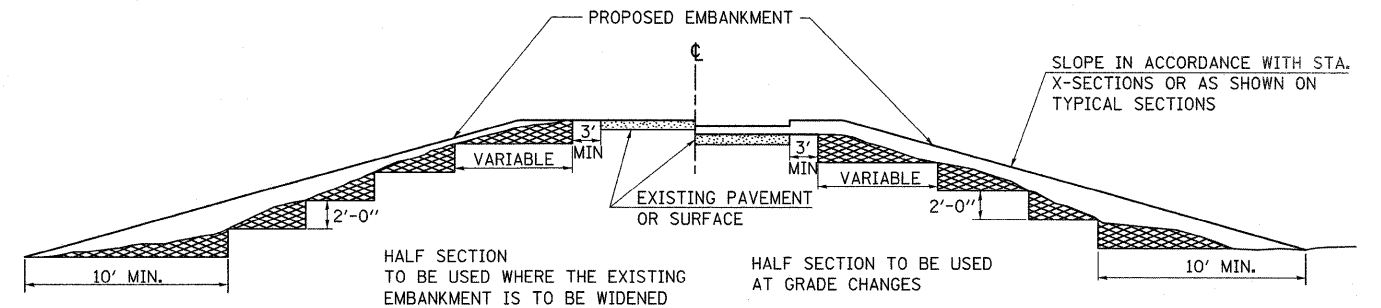
THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS.

SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
REVISED	6-3-99
REVISED	

STD. 9-12

TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL



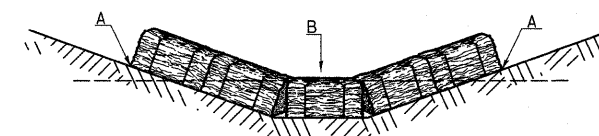
MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04 OF THE STANDARD SPECIFICATION. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
CHECKED	6-3-99
REVISED	

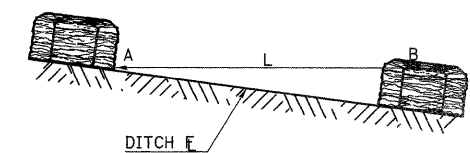
STD. 9-16

TEMPORARY DITCH CHECKS

PLACEMENT OF TEMPORARY DITCH CHECK IN DRAINAGEWAY



SPACING BETWEEN TEMPORARY DITCH CHECKS



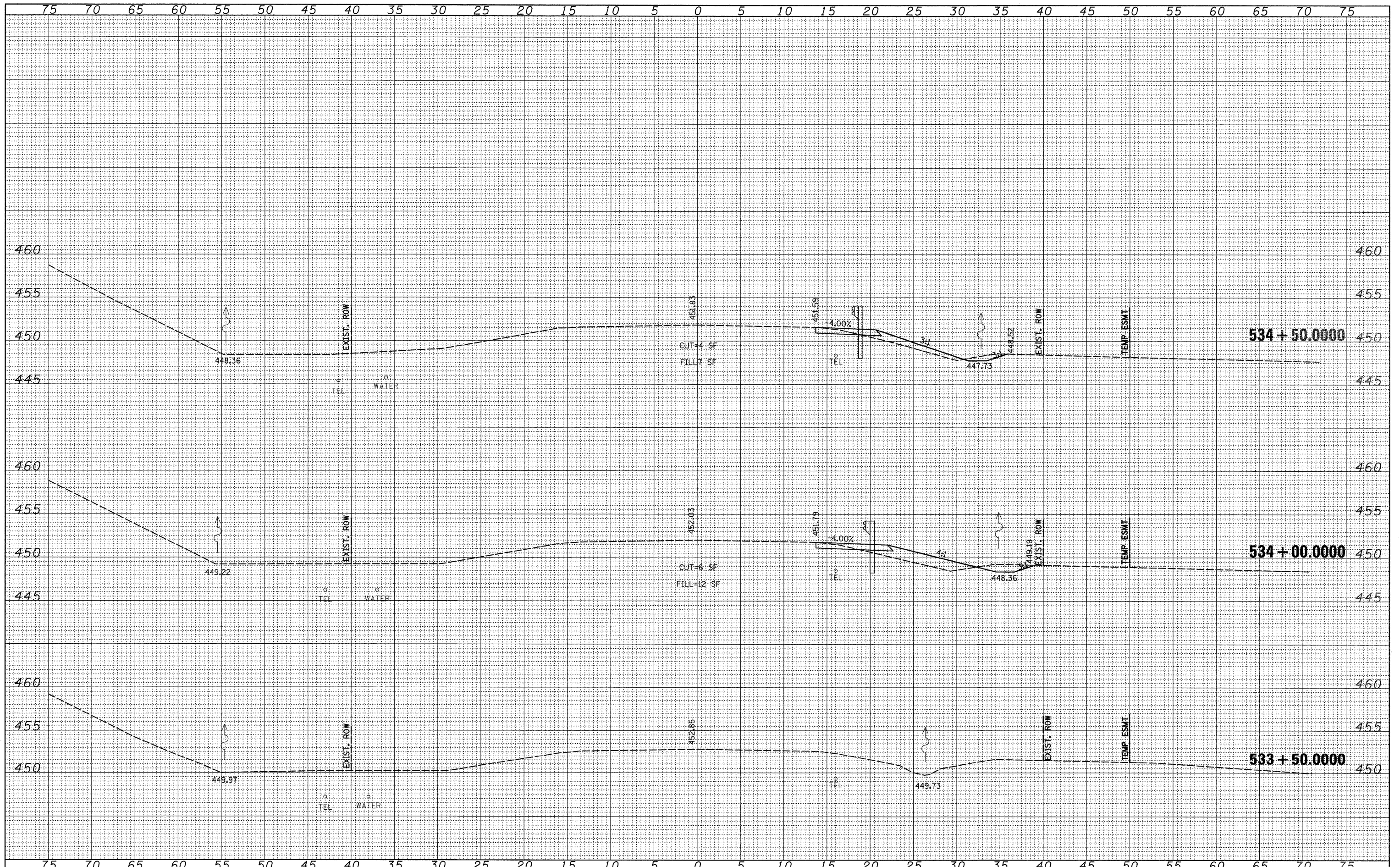
REVISIONS	
DRAWN	9-01-99
REVISED	10-3-01
REVISED	
REVISED	

STD. 9-108

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS IL 142 OVER UNNAMED CREEK	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL#		DRAWN -	REVISED -			849	113B-1	JEFFERSON	24	20	
		CHECKED -	REVISED -			CONTRACT NO. 78085					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.	

FINAL SURVEY	DATE
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

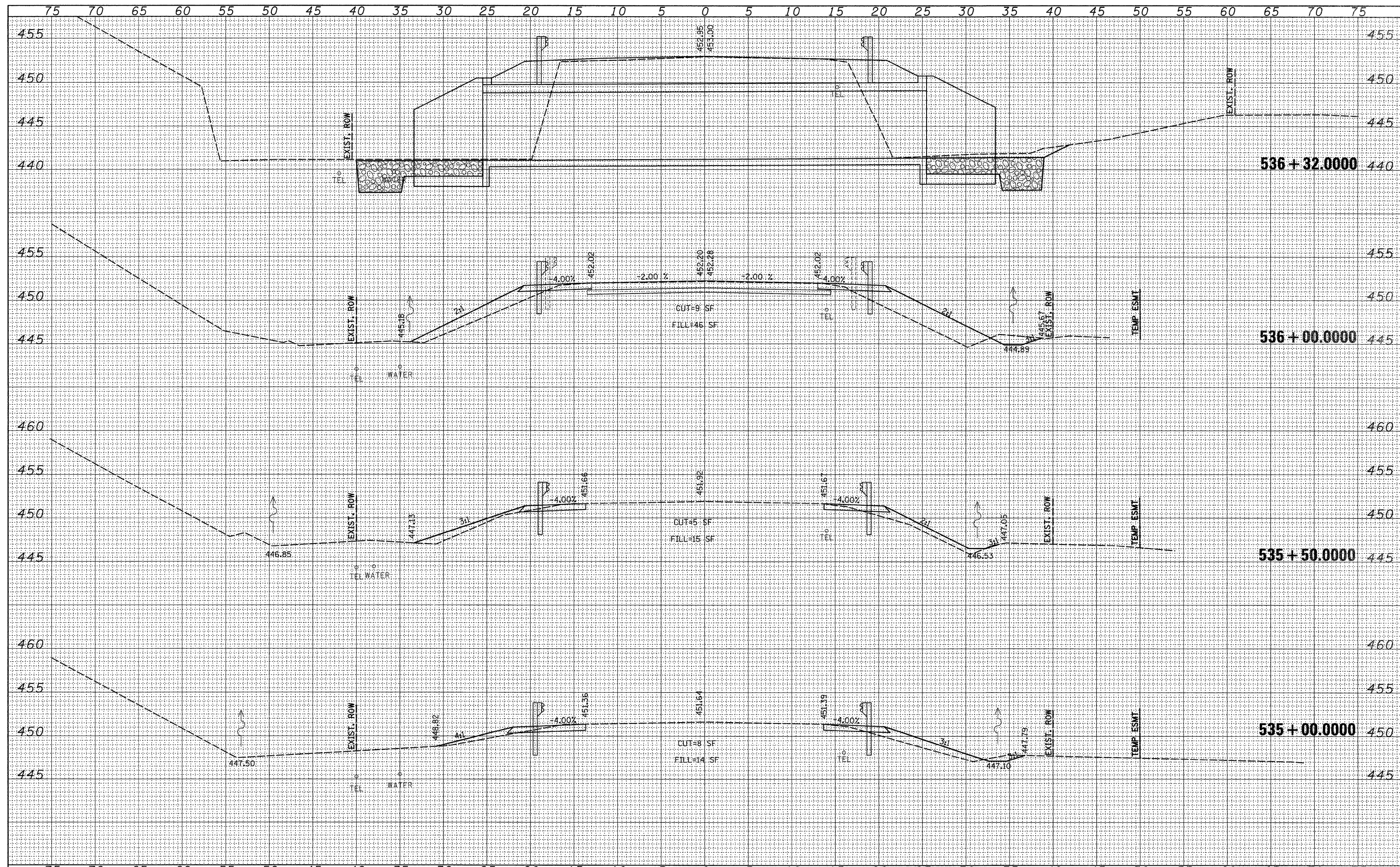
ORIGINAL SURVEY	DATE
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



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#FILE#		DRAWN - ---	REVISED - ---		849	113B-1	JEFFERSON	24	21			
PLOT SCALE = #SCALE#		CHECKED - ---	REVISED - ---		CONTRACT NO. 78085							
PLOT DATE = #DATE#		DATE - -----	REVISED - ---		SCALE:	SHEET NO.	OF SHEETS	STA. 533+50.0000 TO STA. 534+50.0000	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

DATE	
BY	
ORIGINAL SURVEY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
REVISIONS	
NO.	

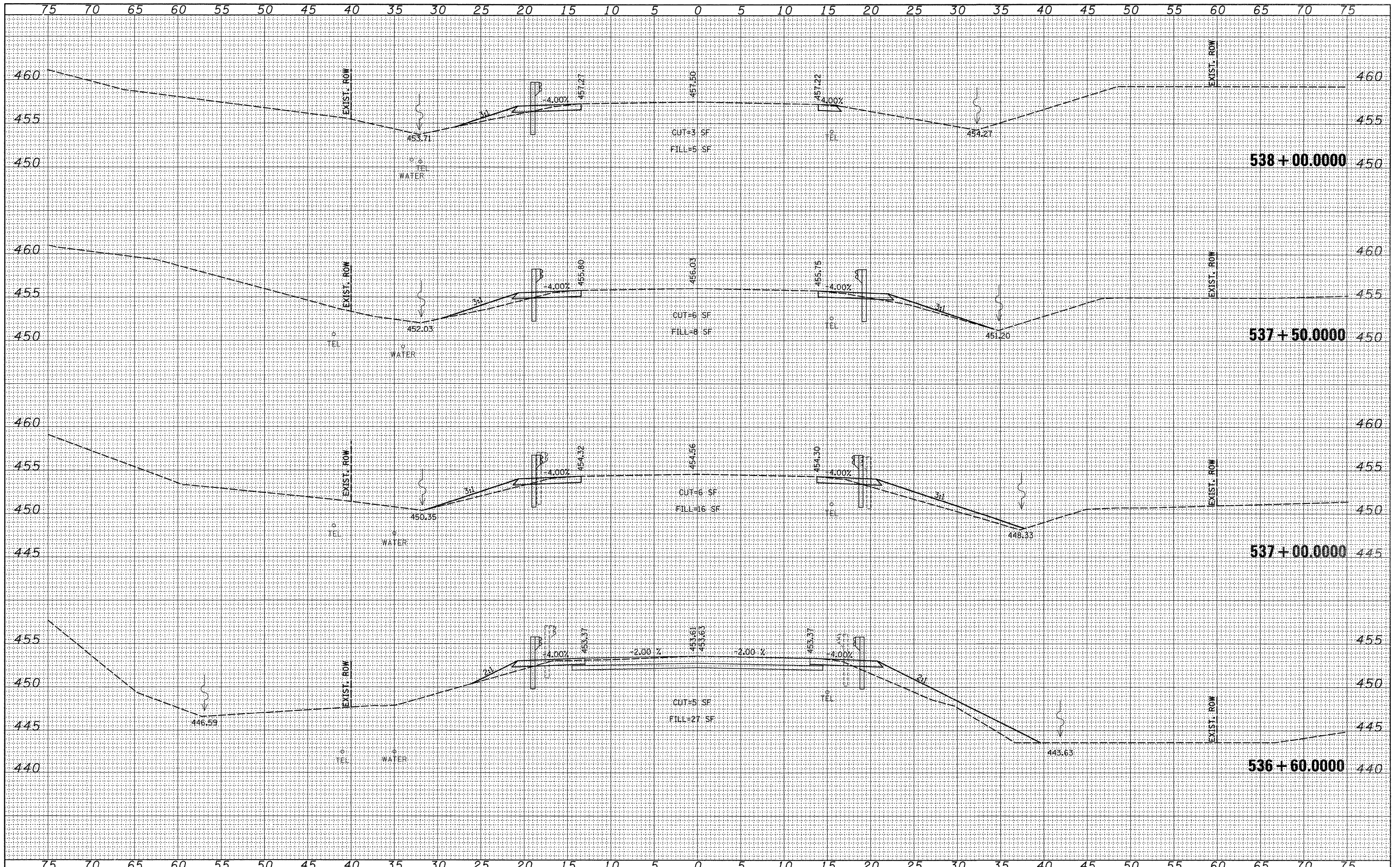
DATE	
BY	
ORIGINAL SURVEY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
REVISIONS	
NO.	



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PLOT DATE = #DATE#		DATE -	REVISIONS -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						
					SCALE:	SHEET NO. OF SHEETS	STA. 535+00.000 TO STA. 536+32.000				

FINAL	SURVEYED	DATE
BOOK	BY	
NO.	NO.	
	AREAS CHECKED	
	AREAS CHECKED	

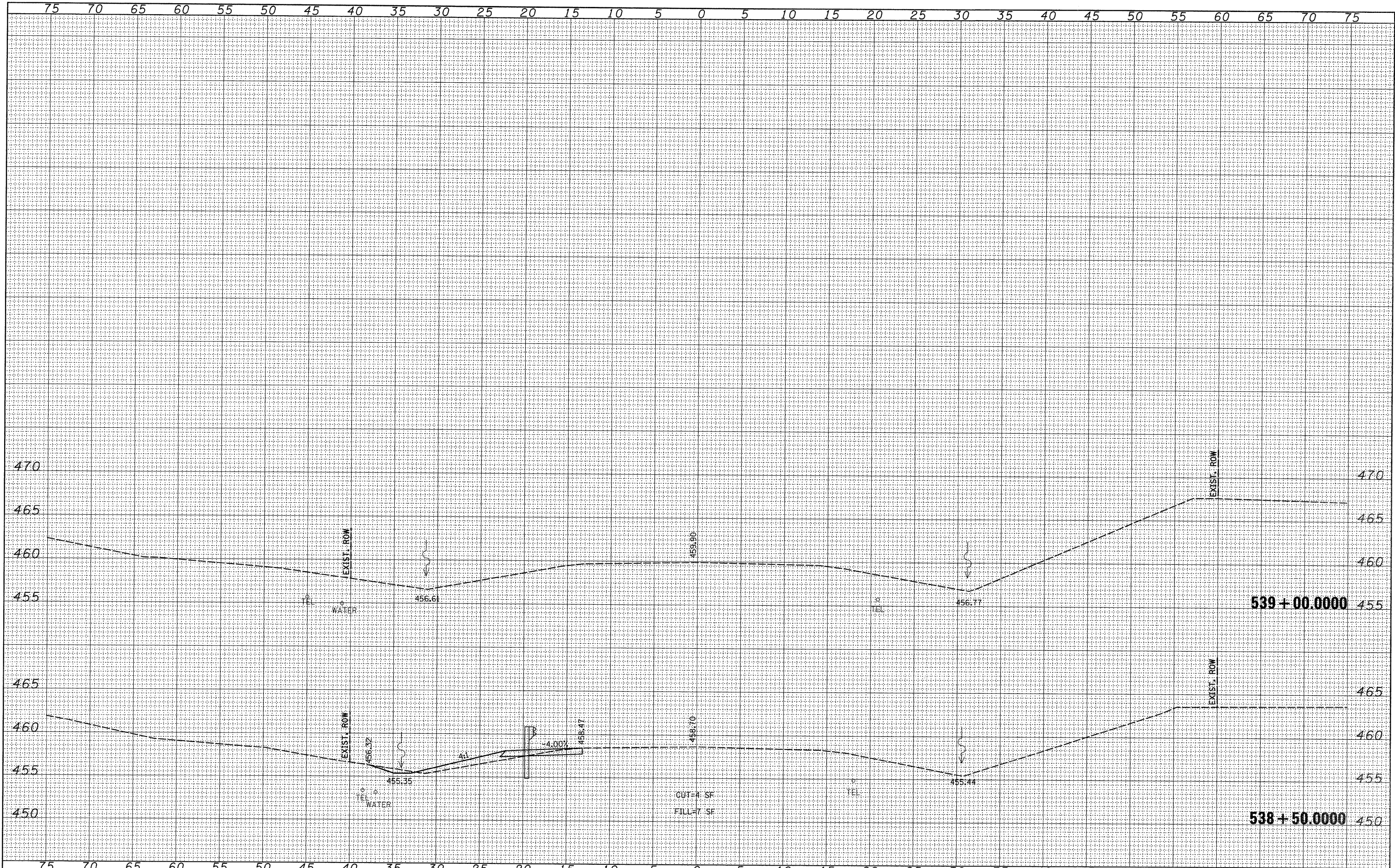
ORIGINAL	SURVEYED	DATE
BOOK	BY	
NO.	NO.	
	AREAS CHECKED	
	AREAS CHECKED	



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PLOT DATE = #DATE*		DATE -	REVISED -		STA. 536+60.000 TO STA. 538+00.000		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



FILE NAME =	USER NAME = #USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS IL ROUTE 142 OVER UNNAMED STREAM		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	849	113B-1	JEFFERSON	24	24
PLOT SCALE = #SCALE#		CHECKED -	REVISED -		STA. 538+50.0000 TO STA. 539+00.0000	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 78085				
PLOT DATE = #DATE#		DATE -	REVISED -									