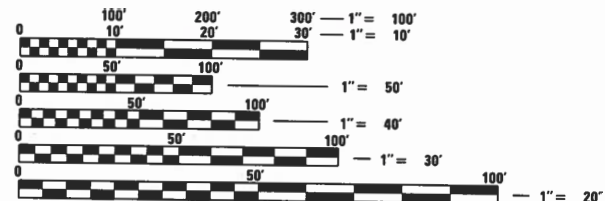


INDEX OF SHEETS, SEE SHEET NO. 2  
LIST OF STANDARDS, SEE SHEET NO. 2

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
446	19-00906-99-DR	FULTON	13	1
		ILLINOIS	CONTRACT NO. 89777	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
PLANS FOR PROPOSED  
DISASTER RELIEF  
CULVERT REPLACEMENT  
COUNTY HIGHWAY 15 – FAS ROUTE 446  
SECTION 19-00906-99-DR  
PROJECT NO. 8EDC(023)  
FULTON COUNTY  
JOB NO. C-94-016-20**

PROPOSED IMPROVEMENT:  
THIS PROJECT CONSISTS OF THE REPLACEMENT OF A 24" CORRUGATED PIPE CULVERT WITH A 36" CORRUGATED PIPE CULVERT (STATION 329+94.34) AND OTHER COLLATERAL WORK TO COMPLETE THE PROJECT.



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.

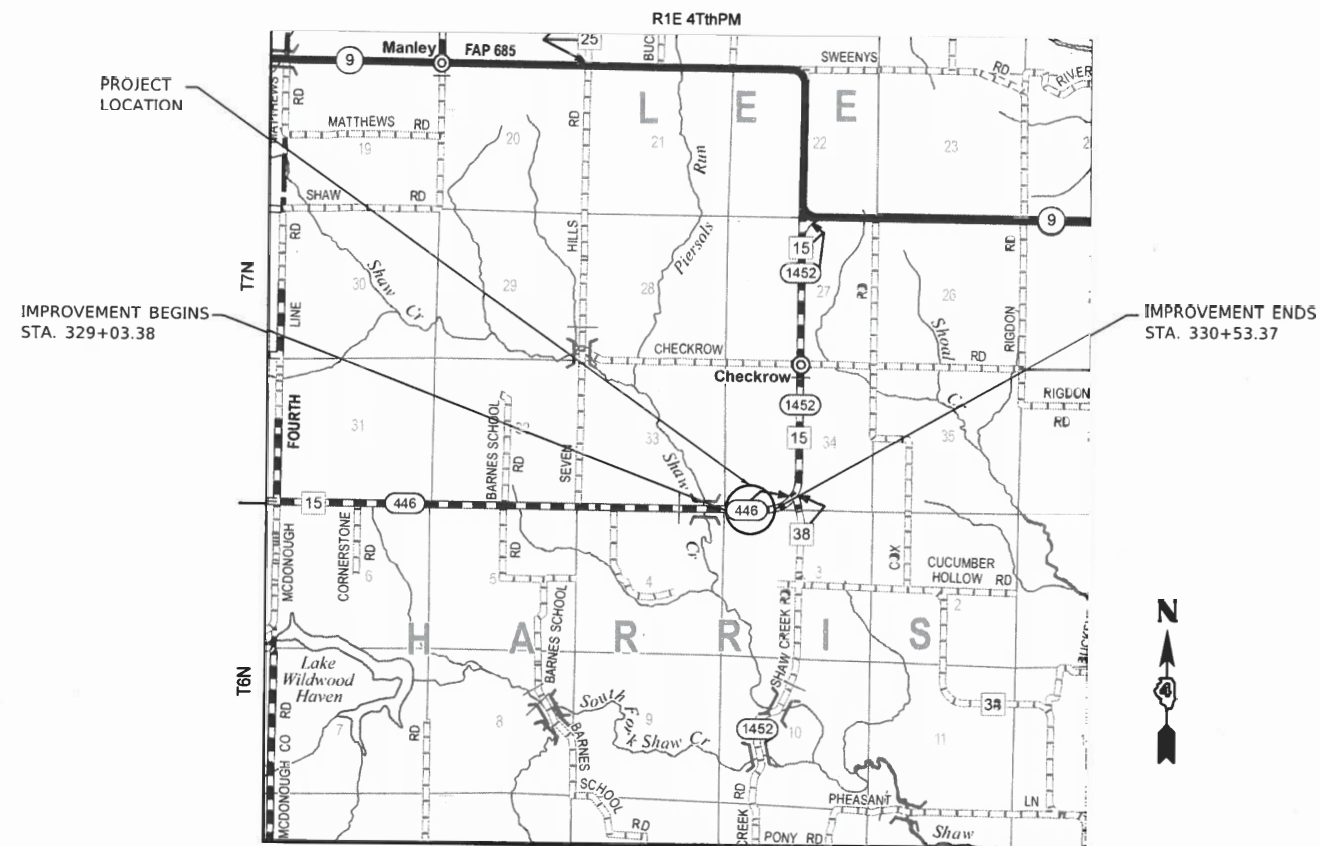
**J.U.L.I.E.**  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

**PROJECT ENGINEER GEORGE MERKLE, P.E.**  
**PROJECT MANAGER RICK ANDERSON, P.E.**

**MAURER-STUTZ**  
ENGINEERS SURVEYORS

3116 DRIES LN STE 100  
PEORIA, ILLINOIS 61604  
PH. (309) 693-7615  
FAX (309) 693-7616  
PROFESSIONAL DESIGN FIRM #184-005754

CATALOG NO. 035848-00  
CONTRACT NO. 89777  
FHWA DISASTER NO. IL-19-01



**LOCATION MAP**

ROADWAY CLASSIFICATION: MAJOR COLLECTOR  
ADT 350(2015)  
DESIGN SPEED :55 MPH  
DESIGN POLICY : NEW CONSTRUCTION/RECONSTRUCTION  
GROSS LENGTH = 149.99 FT. = 0.028 MILES  
NET LENGTH = 149.99 FT = 0.028 MILES  
VARIANCES: FRONT SLOPE/BACK SLOPE

NO COMMITMENTS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

APPROVED January 6th 2021 (date)  
[Signature]  
Fulton County Engineer

PASSED 02-10-21 (date)  
[Signature]  
District 4 Engineer of Local Roads & Streets

RELEASING FOR BID BASED ON LIMITED REVIEW  
February 14, 2021 (date)  
[Signature]  
Region 3 Engineer

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

George B. Merkle  
George B. Merkle, PE  
PE No. 42917  
Exp. Date 11/30/2021



**INDEX OF SHEETS**

- 1 COVER
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 SCHEDULE OF QUANTITIES
- 5 TYPICAL SECTION AND REMOVAL PLAN
- 6 ALIGNMENT, TIES, AND BENCHMARKS
- 7 PLAN & PROFILE SHEET
- 8-9 SPECIAL DETAIL SHEETS
- 10-13 COUNTY HIGHWAY 15 CROSS SECTIONS

**LIST OF STANDARDS**

- 000001-07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF INCH & FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 665001-02 WOVEN WIRE FENCE
- 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5M) AWAY
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5M) TO 24" (600 MM) FROM PAVEMENT EDGE
- 701011-04 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
- 701901-08 TRAFFIC CONTROL DEVICES
- BLR 22-7 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

**GENERAL NOTES**

THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," ADOPTED APRIL 1, 2016 AND THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2021 SHALL GOVERN THE CONSTRUCTION OF THE PROPOSED WORK EXCEPT AS MODIFIED BY THE DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES ON SITE PRIOR TO ANY CONSTRUCTION AND WILL BE HELD RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THEIR FACILITIES. THE CONTRACTOR SHALL CALL J.U.L.I.E. @ 1-800-892-0123 FOR UTILITY LOCATIONS.

THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRS TO ANY UTILITY LINES AND EXISTING IMPROVEMENTS TO REMAIN THAT ARE DAMAGED AS A RESULT OF THE WORK.

ALL EXISTING SURROUNDING AREA AND PROPERTY SHALL BE PROTECTED FROM DAMAGE AND LEFT UNDAMAGED BY THE OPERATION OF THE CONTRACTOR. ANY OF THE SURROUNDING PROPERTY DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO AN EQUAL OR BETTER CONDITION THAN WHAT EXISTED PRIOR TO CONSTRUCTION AT THE CONTRACTOR'S EXPENSE.

ADJUSTMENTS OF PROPOSED GRADES TO MATCH EXISTING ENTRANCES OR OTHER FIELD CONDITIONS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCY IMMEDIATELY.

THE SUMMARY OF QUANTITIES HAS BEEN PROVIDED FOR THE CONTRACTOR'S REFERENCE. CONTRACTOR IS ALERTED TO THE FACT THAT THESE NUMBERS ARE ESTIMATES AND IT IS RECOMMENDED THAT THE CONTRACTOR VERIFY QUANTITIES PRIOR TO ORDERING MATERIALS.

THE OWNER RESERVES THE RIGHT TO REDUCE ANY QUANTITY OR DELETE PAY ITEMS FROM THIS CONTRACT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

EXCESS MATERIAL, IF NOT USED FOR OTHER ON-SITE PURPOSES, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.

ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 OF THE I.D.O.T. STANDARD SPECIFICATIONS, UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNER WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.

EXISTING ROAD SIGNS THAT INTERFERE WITH THE CONSTRUCTION WILL BE RELOCATED AS DIRECTED BY THE ENGINEER OR OWNER. AFTER CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL REPLACE THE SIGNS AS DIRECTED. SIGN REMOVAL, STORAGE AND RELOCATION SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND WILL NOT BE PAID FOR SEPARATELY.

THE WORK AREA SHALL BE POSITIVELY DRAINED DURING CONSTRUCTION. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION, AND TRAFFIC.

CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER THAT EROSION AND WATER POLLUTION WILL BE MINIMIZED.

EROSION CONTROL IS A REQUIREMENT OF THIS PROJECT. ANY FINES OR PENALTIES LEVIED AGAINST THIS PROJECT FOR NONCOMPLIANCE WILL BE BORNE SOLELY BY THE CONTRACTOR.

PERIMETER EROSION BARRIER, TEMPORARY DITCH CHECKS, AND OTHER EROSION CONTROL ITEMS SHALL BE INSPECTED BY THE CONTRACTOR AFTER EACH RAIN EVENT AND REPAIRS SHALL BE MADE BY THE CONTRACTOR AS NEEDED.

THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER IN REGARD TO THE EXACT LENGTH OF THE BOX/PIPE CULVERTS, STORM SEWERS, AND/OR PIPE DRAINS REQUIRED PRIOR TO ORDERING THESE ITEMS.

**ENVIRONMENTAL REVIEWS**

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS WILL NEED TO BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (CULTURAL AND NATURAL RESOURCES REVIEW OF BORROW AREAS)
- BDE FORM 2290 (WASTE/USE AREA REVIEW)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- BORROW AREA ENTRY AGREEMENT FORM - D4 PI0101

PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE COUNTY TO OBTAIN THE REQUIRED WASTE SITE ENVIRONMENTAL CLEARANCES AND SIX WEEKS FOR THE REQUIRED BORROW SITE ENVIRONMENTAL CLEARANCES.

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**FULTON COUNTY HIGHWAY DEPARTMENT**

<b>COUNTY HIGHWAY 15 CULVERT REPLACEMENT</b>			
<b>INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
446	19-00906-99-DR	FULTON	13	2
CONTRACT NO. 89777				
ILLINOIS		FED. AID PROJECT: BEDC(023)		

ITEM CODE	ROADWAY ITEM	UNIT	CONST TYPE CODE		TOTAL QUANTITY	SP
			80% FEDERAL	20% LOCAL		
			ROADWAY			
20100500	TREE REMOVAL, ACRES	ACRE			0.25	
20200100	EARTH EXCAVATION	CU YD			340	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD			54	
25000300	SEEDING, CLASS 3	ACRE			0.25	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND			23	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND			23	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND			23	
25100127	MULCH, METHOD 3A	ACRE			0.25	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND			50	
28000305	TEMPORARY DITCH CHECKS	FOOT			450	
28000400	PERIMETER EROSION BARRIER	FOOT			62	
28000500	INLET AND PIPE PROTECTION	EACH			1	
28100107	STONE RIPRAP, CLASS A4	SQ YD			8	
28200200	FILTER FABRIC	SQ YD			178	
28300400	AGGREGATE DITCH	TON			100	

SP - APPLICABLE SPECIAL PROVISIONS

ITEM CODE	ROADWAY ITEM	UNIT	CONST TYPE CODE		TOTAL QUANTITY	SP
			80% FEDERAL	20% LOCAL		
			ROADWAY			
35101400	AGGREGATE BASE COURSE, TYPE B	TON			192	
44004000	PAVED DITCH REMOVAL	FOOT			112	
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD			140	
50105220	PIPE CULVERT REMOVAL	FOOT			156	
542C3391	PIPE CULVERTS, CLASS C, TYPE 5 36"	FOOT			120	
Δ 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT			113	
Δ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH			1	
63200310	GUARDRAIL REMOVAL	FOOT			43	
67100100	MOBILIZATION	L SUM			1	
X0326837	GRID REINFORCED SLOPE	SQ YD			374	
X7011801	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 22	L SUM			1	
Z0013798	CONSTRUCTION LAYOUT	L SUM			1	
Z0054500	ROCK FILL	TON			110	

SP - APPLICABLE SPECIAL PROVISIONS

Δ SPECIALTY ITEMS

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	PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -					446	19-00906-99-DR	FULTON	13	3
	PLOT DATE = 1/6/2021	CHECKED -	REVISED -					CONTRACT NO. 89777				
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25100500 TREE REMOVAL, ACRES					
LOCATION			ACRE	REMARKS	
329+08.50	TO	330+53.37	0.08		
329+15.94	TO	330+20.61	0.05	ROUND TO	
<b>TOTAL</b>			<b>0.13</b>	NEAREST 0.25 ACRE	

20201200 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL					
LOCATION			CU YD	REMARKS	
329+57.65	TO	330+36.04	53.33	LT/RT	
<b>TOTAL</b>			<b>53.33</b>		

25000300 SEEDING, CLASS 3					
LOCATION			ACRE	REMARKS	
329+08.50	TO	330+53.37	0.08		
329+15.94	TO	330+20.61	0.05	ROUND TO	
<b>TOTAL</b>			<b>0.13</b>	NEAREST 0.25 ACRE	

25000400 NITROGEN FERTILIZER NUTRIENT					
LOCATION			POUND	REMARKS	
329+08.50	TO	330+53.37	7.56	ROUND TO	
329+15.94	TO	330+20.61	4.23	23.0	
<b>TOTAL</b>			<b>11.79</b>	POUNDS	

25000500 PHOSPHORUS FERTILIZER NUTRIENT					
LOCATION			POUND	REMARKS	
329+08.50	TO	330+53.37	7.56	ROUND TO	
329+15.94	TO	330+20.61	4.23	23.0	
<b>TOTAL</b>			<b>11.79</b>	POUNDS	

25000600 POTASSIUM FERTILIZER NUTRIENT					
LOCATION			POUND	REMARKS	
329+08.50	TO	330+53.37	7.56	ROUND TO	
329+15.94	TO	330+20.61	4.23	23.0	
<b>TOTAL</b>			<b>11.79</b>	POUNDS	

25100127 MULCH, METHOD 3A					
LOCATION			ACRE	REMARKS	
329+08.50	TO	330+53.37	0.08		
329+15.94	TO	330+20.61	0.05	ROUND TO	
<b>TOTAL</b>			<b>0.13</b>	NEAREST 0.25 ACRE	

28000250 TEMPORARY EROSION CONTROL SEEDING					
LOCATION			POUND	REMARKS	
329+08.50	TO	330+53.37	16.81	ROUND TO	
329+15.94	TO	330+20.61	9.40	50.0	
<b>TOTAL</b>			<b>26.21</b>	POUNDS	

28000305 TEMPORARY DITCH CHECKS					
LOCATION			FOOT	REMARKS	
NW QUADRANT			300.00		
SW QUADRANT			90.00		
SE QUADRANT			60.00		
<b>TOTAL</b>			<b>450.00</b>		

28000400 PERIMETER EROSION BARRIER					
LOCATION			FOOT	REMARKS	
330+21.55	TO	330+53.62	61.92	LT	
<b>TOTAL</b>			<b>61.92</b>		

28000500 INLET AND PIPE PROTECTION					
LOCATION			EACH	REMARKS	
329+60.02		44.1'	1.00	RT	
<b>TOTAL</b>			<b>1.00</b>		

35101400 AGGREGATE BASE COURSE, TYPE B					
LOCATION			TON	REMARKS	
329+49.74	TO	330+38.66	191.23	LT/RT	
<b>TOTAL</b>			<b>191.23</b>		

44004000 PAVED DITCH REMOVAL					
LOCATION			FOOT	REMARKS	
329+27.48	TO	330+33.50	111.66	LT	
<b>TOTAL</b>			<b>111.66</b>		

48101500 AGGREGATE SHOULDERS, TYPE B 6"					
LOCATION			SQ YD	REMARKS	
329+03.38	TO	330+53.37	100.00	LT	
329+49.90	TO	330+38.66	39.45	RT	
<b>TOTAL</b>			<b>139.45</b>		

50105220 PIPE CULVERT REMOVAL					
LOCATION			FOOT	REMARKS	
329+90.62	TO	330+44.21	156.01	LT/RT	
<b>TOTAL</b>			<b>156.01</b>		

542C3391 PIPE CULVERTS, CLASS C, TYPE 5 36"					
LOCATION			FOOT	REMARKS	
329+60.02	TO	330+33.67	120.00	LT/RT	
<b>TOTAL</b>			<b>120.00</b>		

63000003 STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS					
LOCATION			FOOT	REMARKS	
329+40.88	TO	330+53.37	112.50	LT	
<b>TOTAL</b>			<b>112.50</b>		

63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT					
LOCATION			EACH	REMARKS	
329+03.38	TO	329+40.88	1.00	LT	
<b>TOTAL</b>			<b>1.00</b>		

63200310 GUARDRAIL REMOVAL					
LOCATION			FOOT	REMARKS	
330+11.35	TO	330+53.37	42.42	LT	
<b>TOTAL</b>			<b>42.42</b>		

Z0054500 ROCK FILL					
LOCATION			TON	REMARKS	
329+57.65	TO	330+36.04	109.33	LT/RT	
<b>TOTAL</b>			<b>109.33</b>		

LOCATION	EARTH EXCAVATION	EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT (FILL)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STA. 329+03.39 TO STA. 330+53.37	338.34	253.76	66.66	187.10
<b>TOTAL</b>	<b>338.34</b>	<b>253.76</b>	<b>66.66</b>	<b>187.10</b>

EARTHWORK SUMMARY			
20200100	EARTH EXCAVATION	340	CU YD

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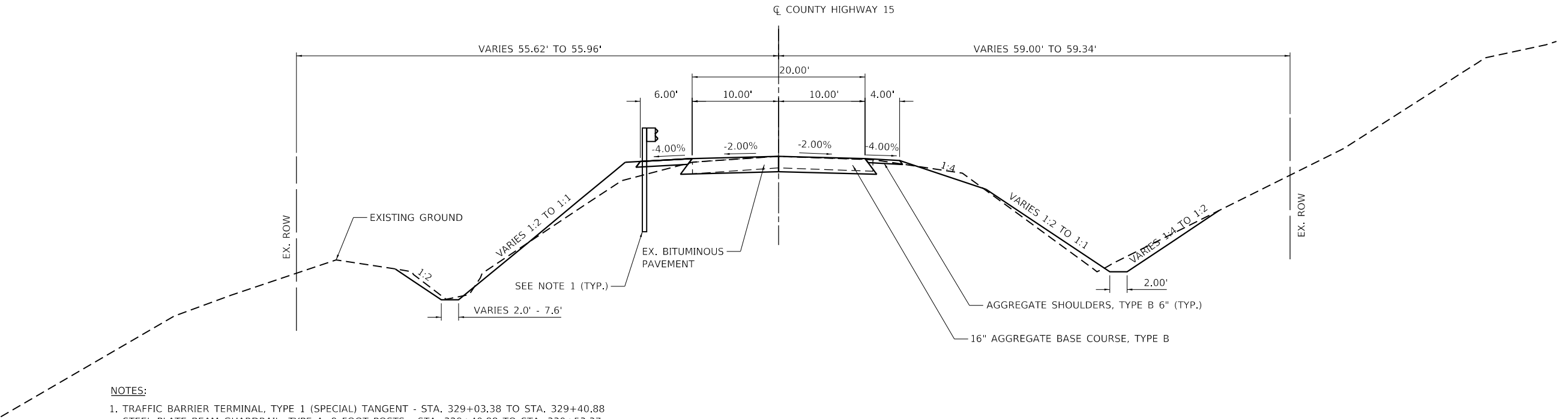
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	DATE -	REVISED -

FULTON COUNTY HIGHWAY DEPARTMENT

COUNTY HIGHWAY 15 CULVERT REPLACEMENT  
SCHEDULE OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

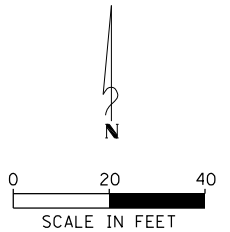
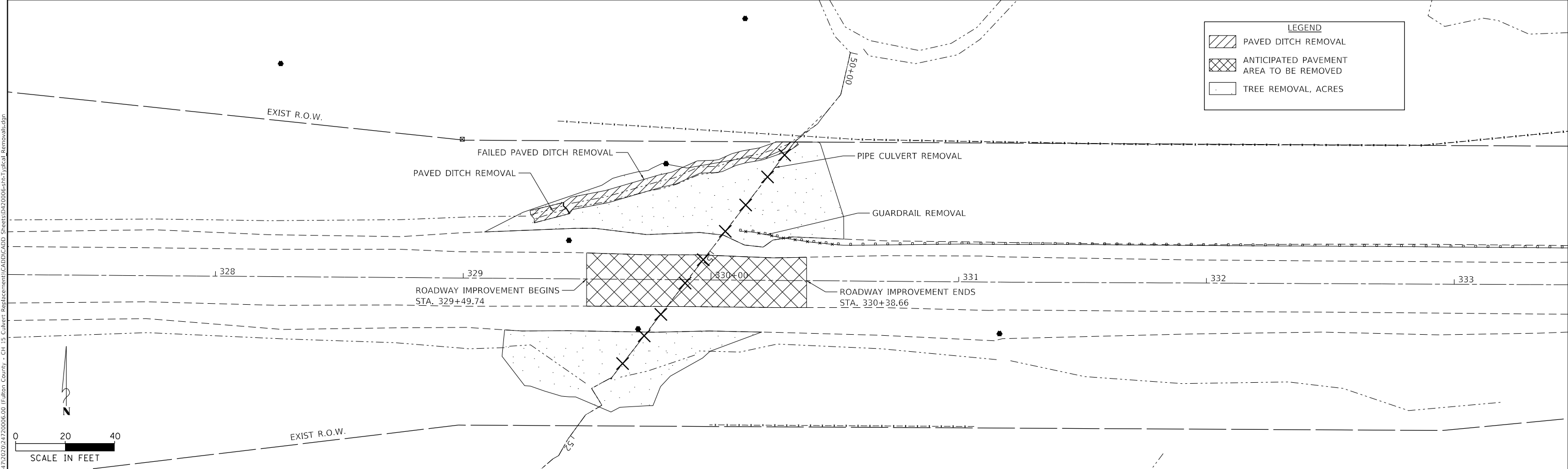
F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
446	19-00906-99-DR	FULTON	13	4
CONTRACT NO. 89777				
ILLINOIS FED. AID PROJECT: BEDC(023)				



- NOTES:**
- 1. TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT - STA. 329+03.38 TO STA. 329+40.88  
STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS - STA. 329+40.88 TO STA. 330+53.37
  - 2. AGGREGATE DITCH - STA. 329+16.53 TO STA. 329+96.83 RT & STA. 329+25.11 TO STA. 330+32.49 LT

**PROPOSED TYPICAL SECTION**  
NOT TO SCALE  
STA. 329+49.74 TO STA. 330+38.66

LEGEND	
	PAVED DITCH REMOVAL
	ANTICIPATED PAVEMENT AREA TO BE REMOVED
	TREE REMOVAL, ACRES



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	DATE -	REVISED -

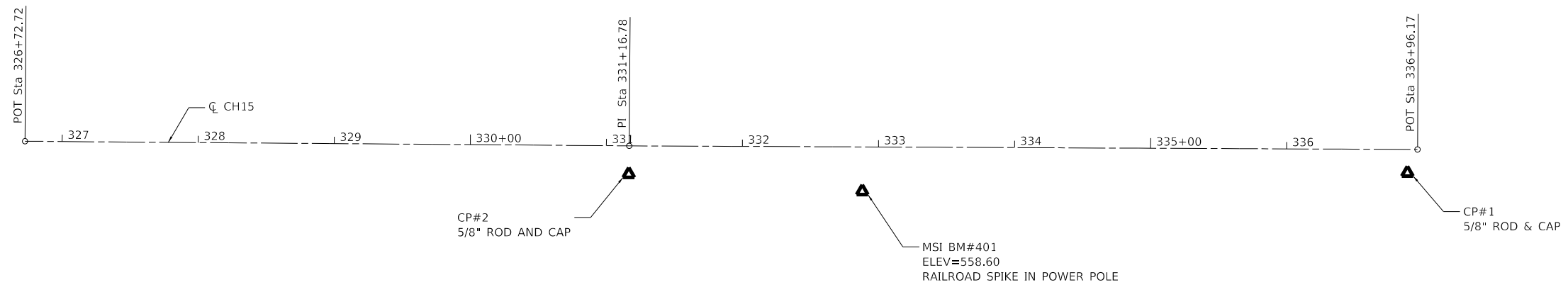
**FULTON COUNTY HIGHWAY DEPARTMENT**

**COUNTY HIGHWAY 15 CULVERT REPLACEMENT  
TYPICAL SECTION AND REMOVAL PLAN**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
446	19-00906-99-DR	FULTON	13	5

CONTRACT NO. 89777 ILLINOIS FED. AID PROJECT: BEDC(023)

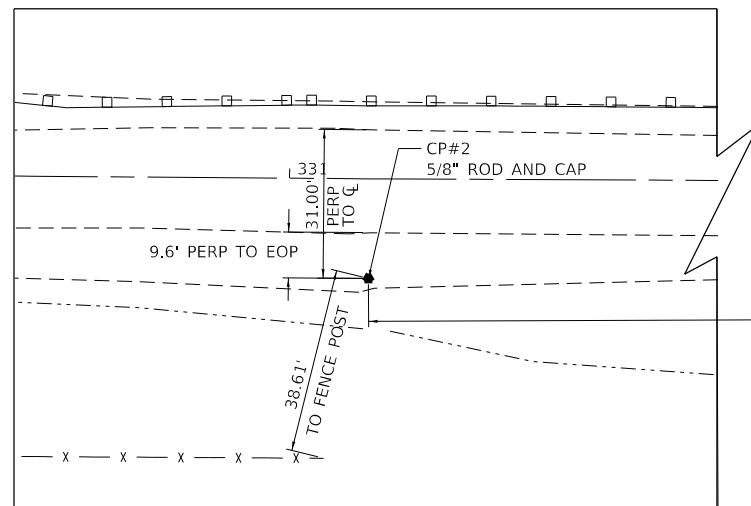


Beginning chain RCLECH15A description  
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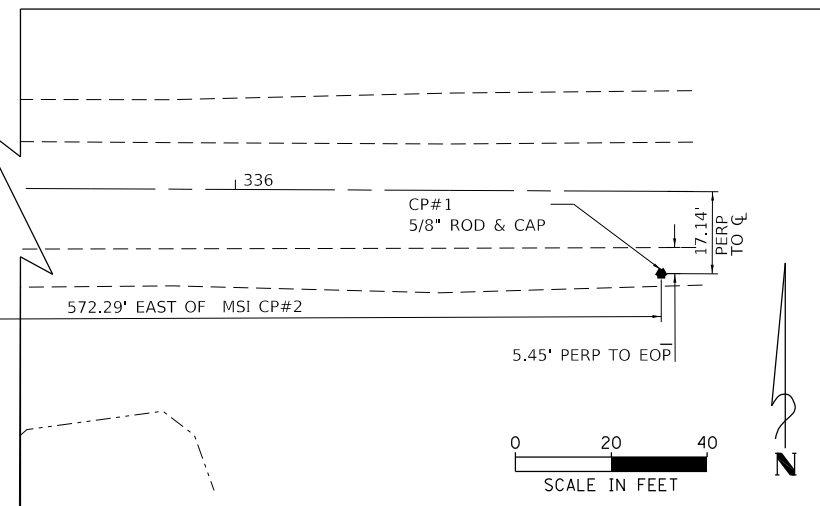
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Point 85      N  1,410,630.0500 E  2,235,445.1110 Sta   326+72.72
Course from 85 to 86 S 89° 33' 49.06" E Dist 444.0619
Point 86      N  1,410,626.6680 E  2,235,889.1600 Sta   331+16.78
Course from 86 to 87 S 89° 44' 13.73" E Dist 579.3871
Point 87      N  1,410,624.0100 E  2,236,468.5410 Sta   336+96.17
=====
  
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Ending chain RCLECH15A description



CP #2



CP #1

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	DATE -	REVISED -

FULTON COUNTY HIGHWAY DEPARTMENT

COUNTY HIGHWAY 15 CULVERT REPLACEMENT  
 ALIGNMENT, TIES, AND BENCHMARKS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
446	19-00906-99-DR	FULTON	13	6
CONTRACT NO. 89777				
ILLINOIS		FED. AID PROJECT: BEDC(023)		

DATE	
BY	
SURVEYED	
PLANNED	
ALIGNED	
CHECKED	
FILE NAME	
NO.	

DATE	
BY	
SURVEYED	
PLANNED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NO.	

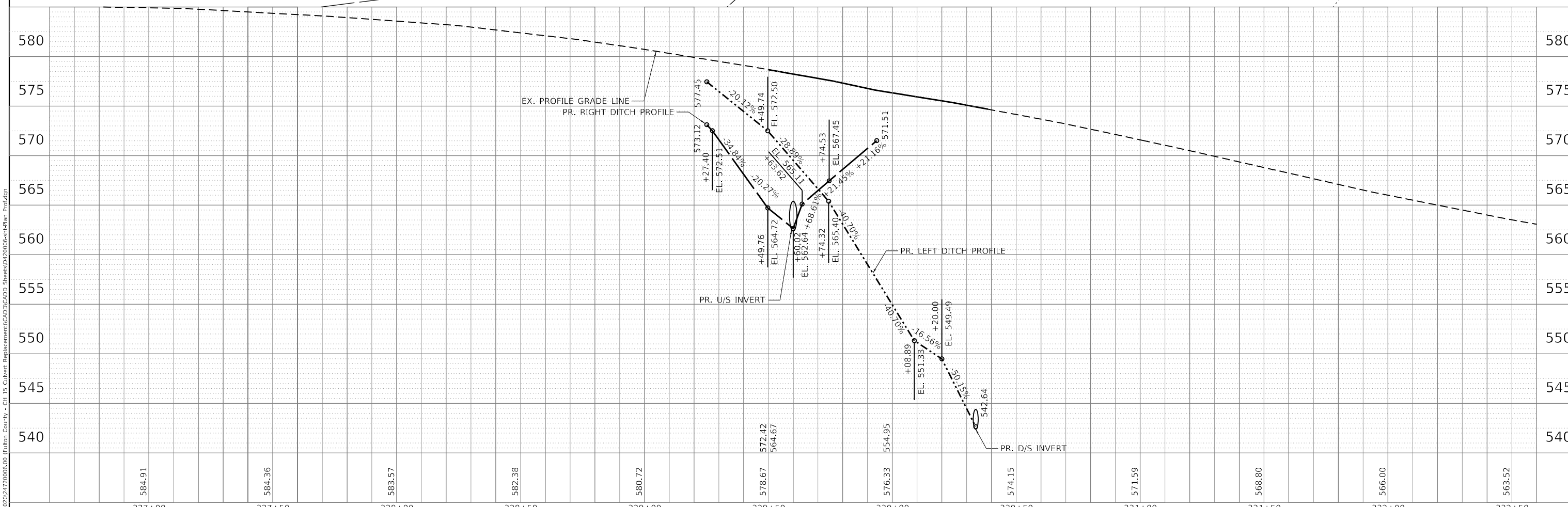
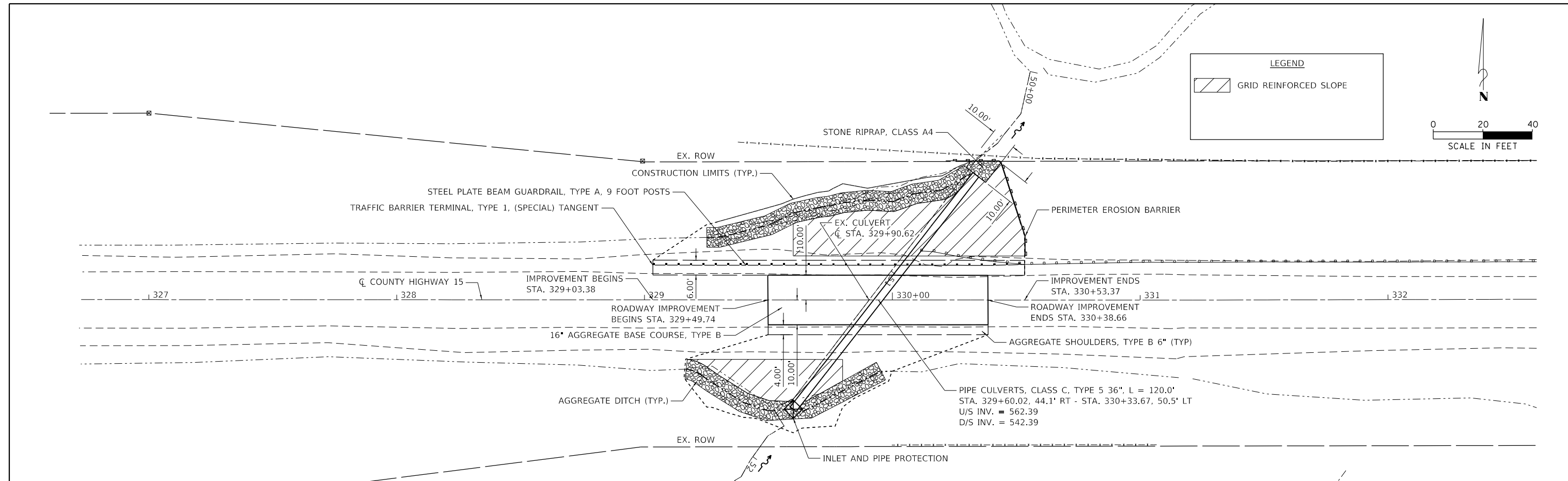
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**LEGEND**

GRID REINFORCED SLOPE

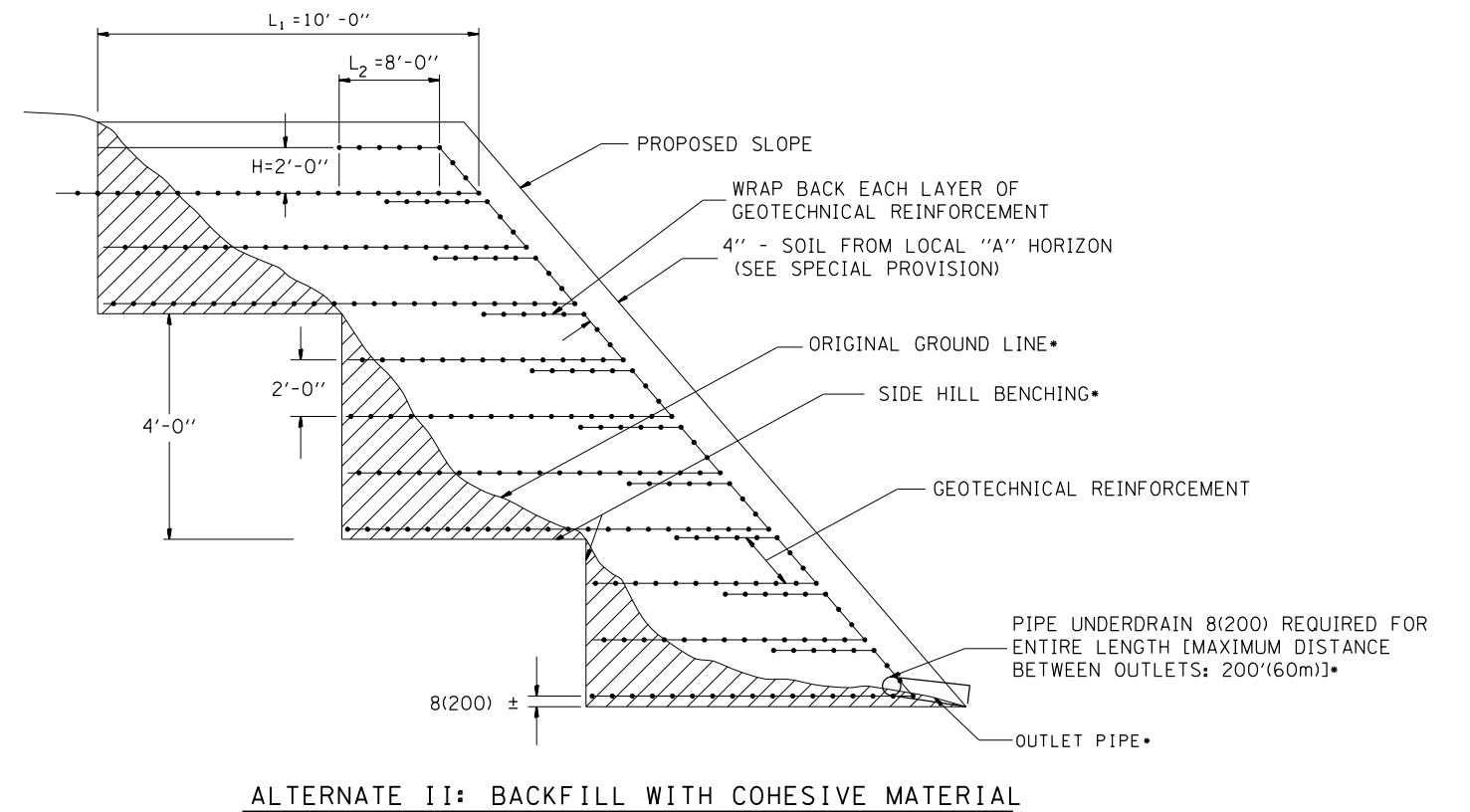
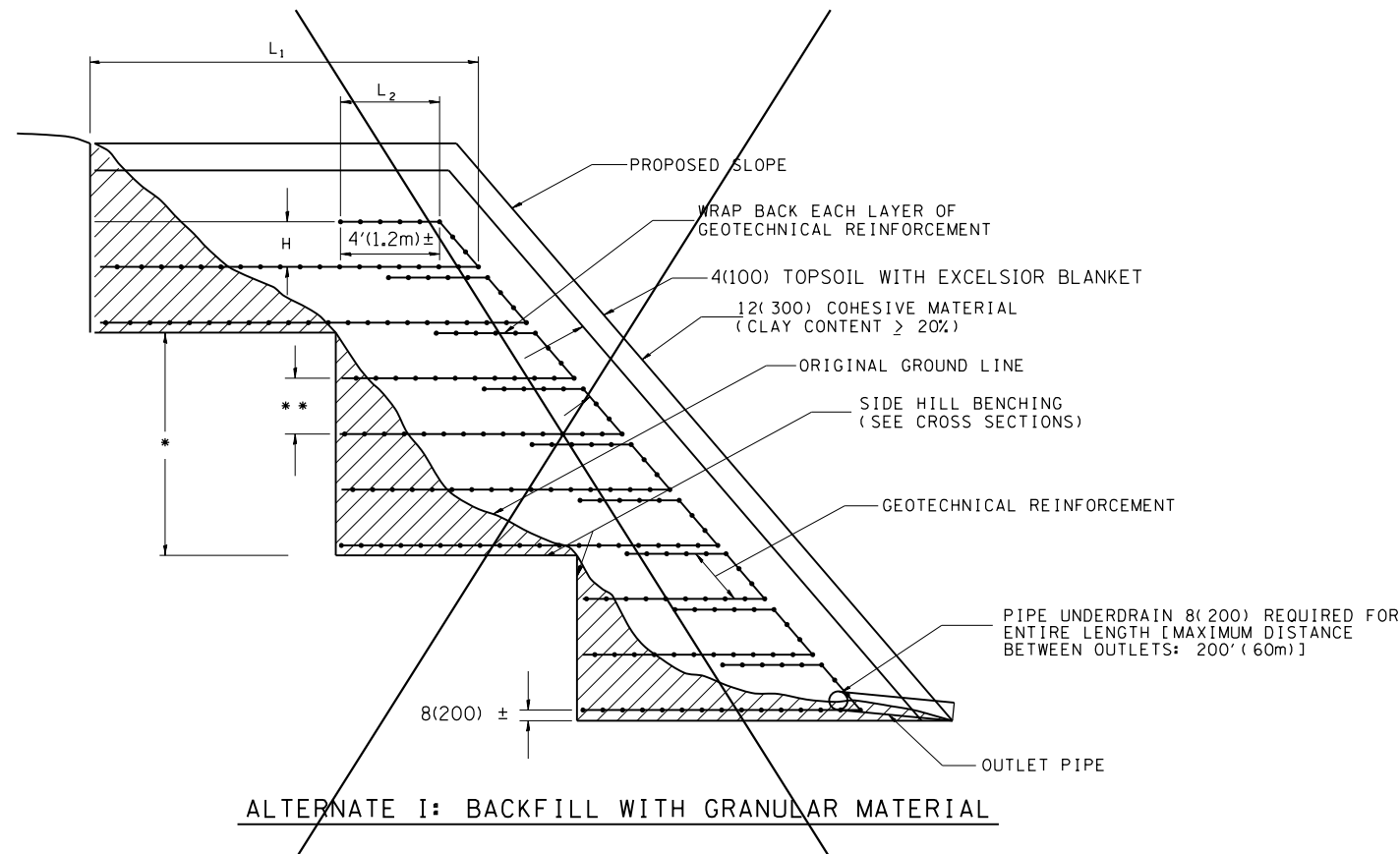
**SCALE IN FEET**

0 20 40



	USER NAME =	DESIGNED -	REVISED -	<b>FULTON COUNTY HIGHWAY DEPARTMENT</b>	<b>COUNTY HIGHWAY 15 CULVERT REPLACEMENT</b> <b>PLAN AND PROFILE SHEET</b>			SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DESIGNED -	REVISED -	446					19-00906-99-DR	FULTON	13	7
	PLOT SCALE =	CHECKED -	REVISED -					CONTRACT NO. 89777			
	PLOT DATE =	DATE -	REVISED -					ILLINOIS FED. AID PROJECT: BEDC(023)			

SCALE: SHEET OF SHEETS STA. TO STA.



\* NOTE-ONLY NEEDED IN AREAS WHERE GEOTECHNICAL REINFORCEMENT EXTENDS INTO EXISTING REMAINING GROUND AREAS

**GEOTECHNICAL REINFORCEMENT LOCATIONS**

STATION TO STATION	SIDE	SQ YDS (m) <sup>2</sup>
329+15.00-329+80.00	RT	<b>104.99</b>
329+60.00-330+53.37	LT	<b>268.27</b>
TOTAL QUANTITY		<b>373.26</b>

**GENERAL NOTES:**

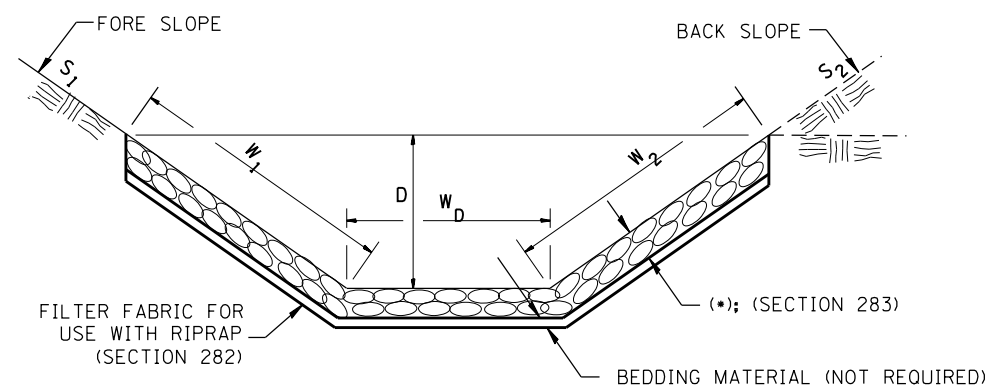
- BENCHING:**  
Shall be performed to the dimensions as shown on the plans and in accordance with the applicable portions of article 205.03 of the Standard Specifications.
- GEOTECHNICAL REINFORCEMENT:**  
Shall be lapped up to and just below the next higher Geogrid Layer.

MEASUREMENT FORMULA  
MEASURED IN PLACE ALONG THE FACE OF SLOPE = PAYMENT AREA

All dimensions are in inches (millimeters) unless otherwise noted.



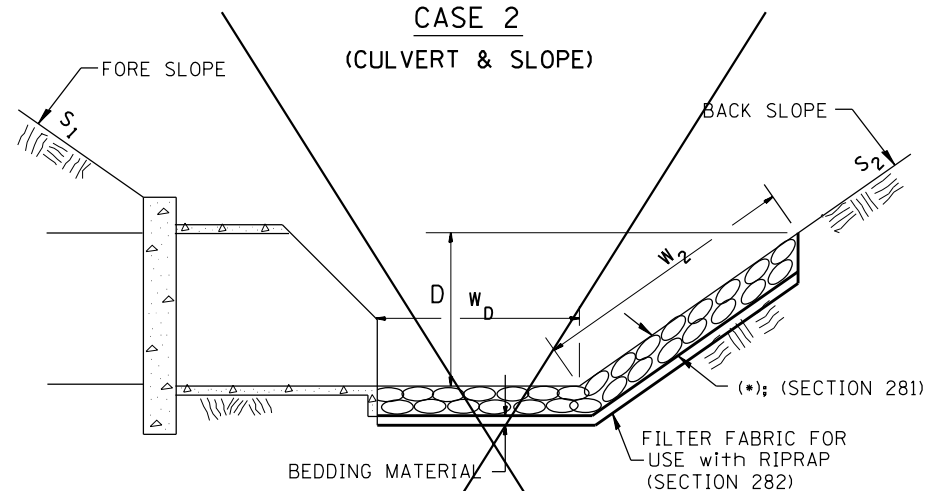
**CASE 1  
(DITCH)**



(*)				
LOCATION	WIDTH (1)	LENGTH	AGG DITCH	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m <sup>2</sup> )
329+25.11-330+32.49 LT	8.00	107.38	56.77	97.31
329+16.53-329+96.83 RT	8.00	80.30	42.44	72.75
TOTAL			99.20	170.06

(1) WIDTH =  $W_1 + W_2 + W_D$

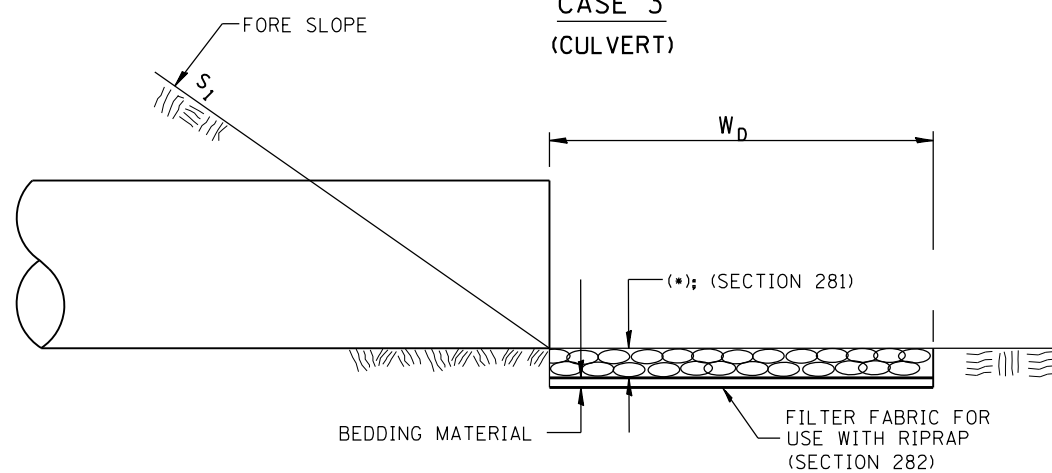
**CASE 2  
(CULVERT & SLOPE)**



(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m <sup>2</sup> )
TOTAL				

(1) WIDTH =  $W_2 + W_D$

**CASE 3  
(CULVERT)**



(*)				
LOCATION	WIDTH	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft	lin ft	sq yds	sq yds
330+29.72-330+43.76 LT	10.00	10.00	7.61	7.61
TOTAL			7.61	7.61

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).  
All dimensions are in inches (millimeters) unless otherwise noted.

1-1-97	RENUM. A-12.02, NEW REVISION BOX	T.P.
12-1-97	CORRECT FILTER FABRIC LEADER ARROW	J.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.
9-6-12	REMOVED A DESIGNER NOTE AND MADE MINOR CHANGES	R.D.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RIPRAP DITCH FOR EROSION PROTECTION

NOT TO SCALE

CADD STD. 281001-D4

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
446	19-00906-99-DR	FULTON	13	9
CONTRACT NO. 89777				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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REVISED -

FULTON COUNTY HIGHWAY DEPARTMENT

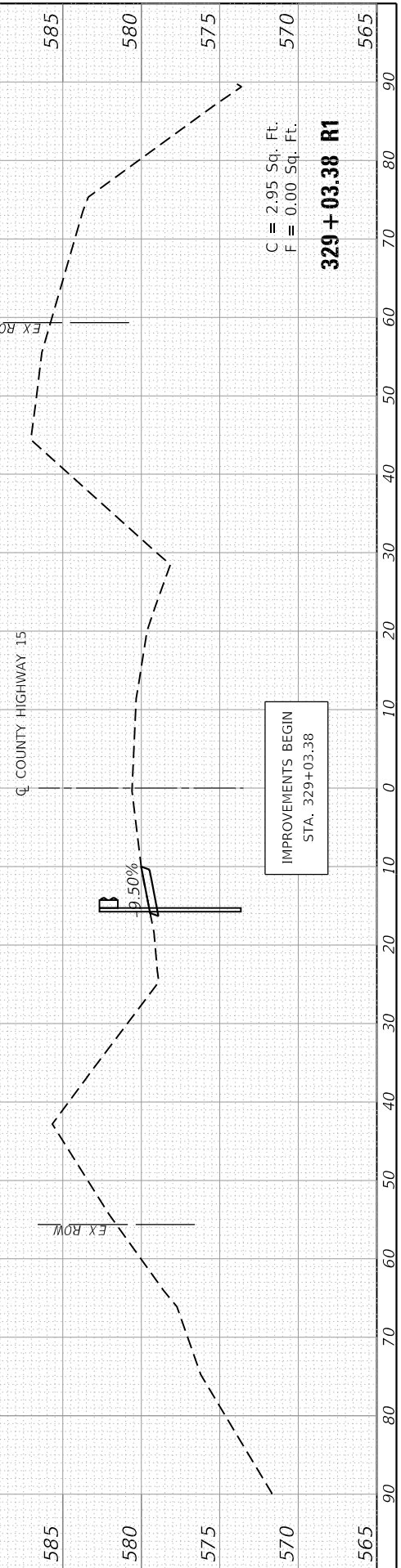
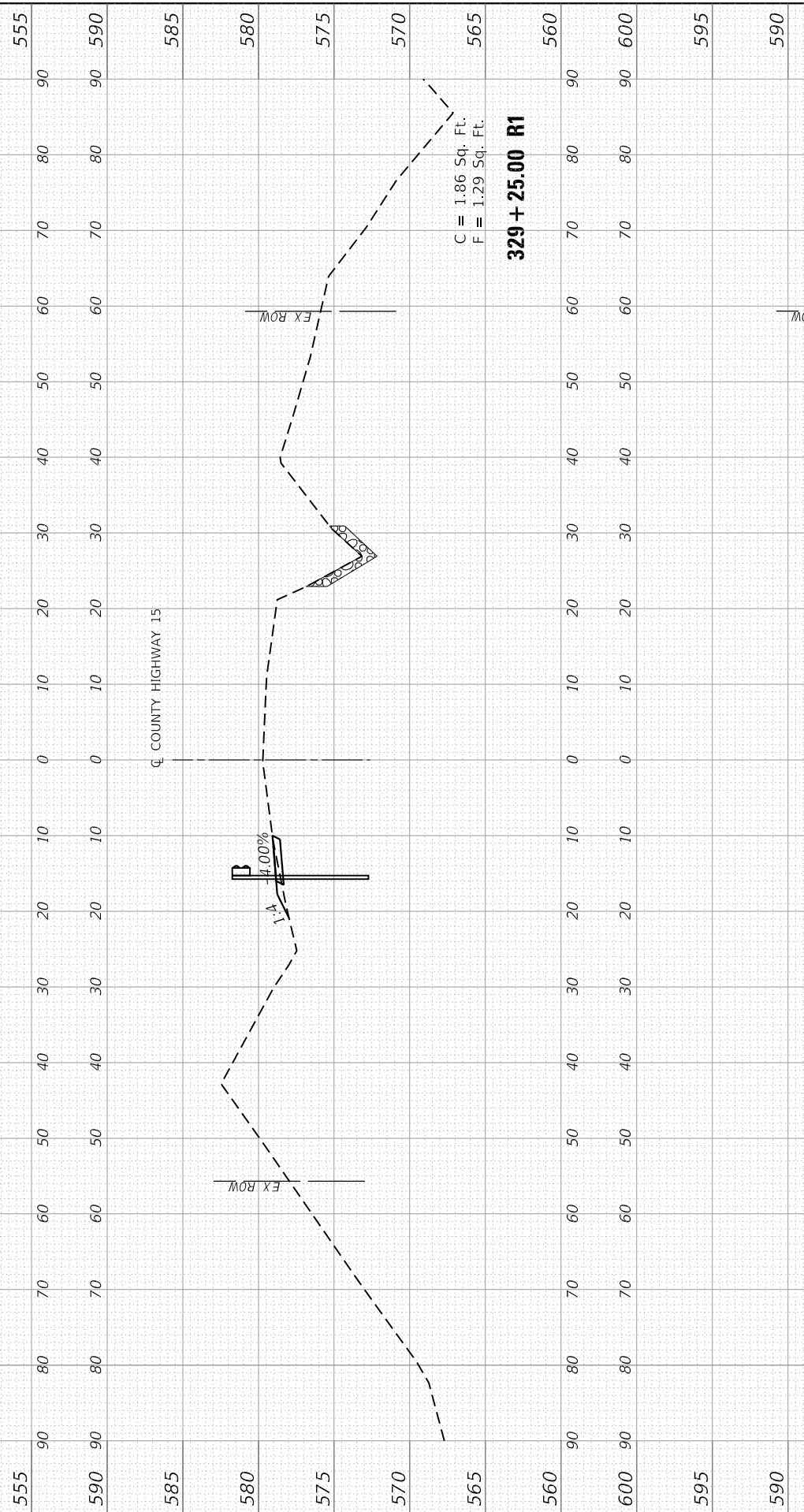
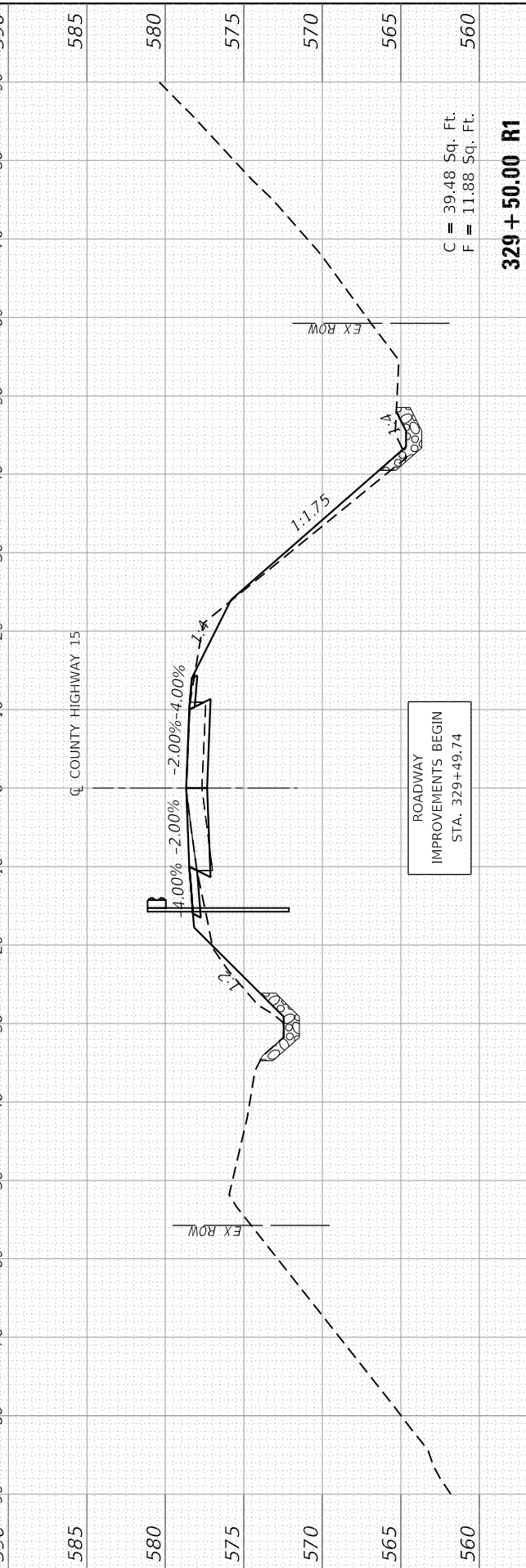
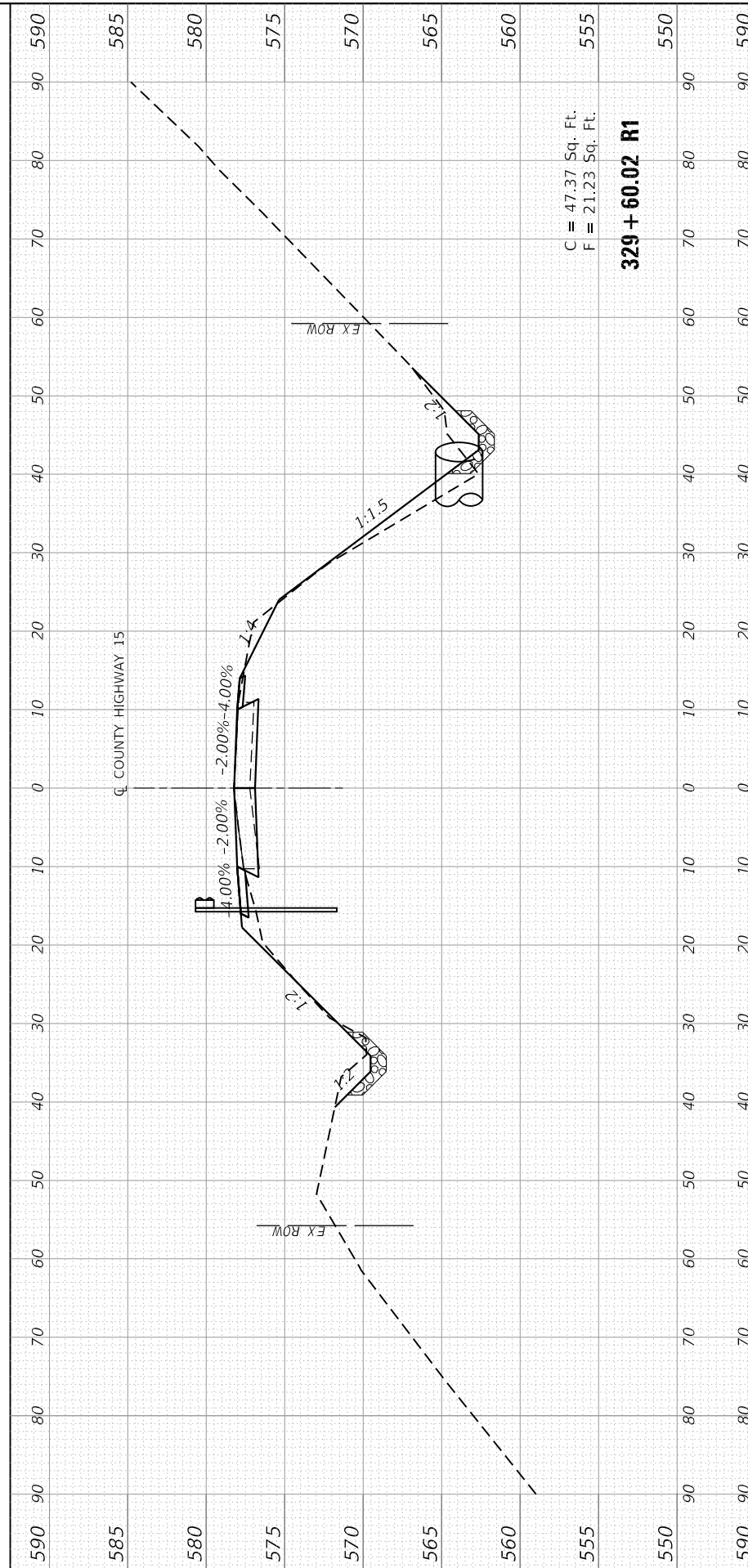
COUNTY HIGHWAY 15 CULVERT REPLACEMENT  
CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 329+03.38 R1 TO STA. 329+60.02 R1

F.A.S. RTE. 446	SECTION 19-00906-00-DR	COUNTY FULTON	TOTAL SHEETS 13	SHEET NO. 10
CONTRACT NO. 89777				
ILLINOIS FED. AID PROJECT: BEDC(023)				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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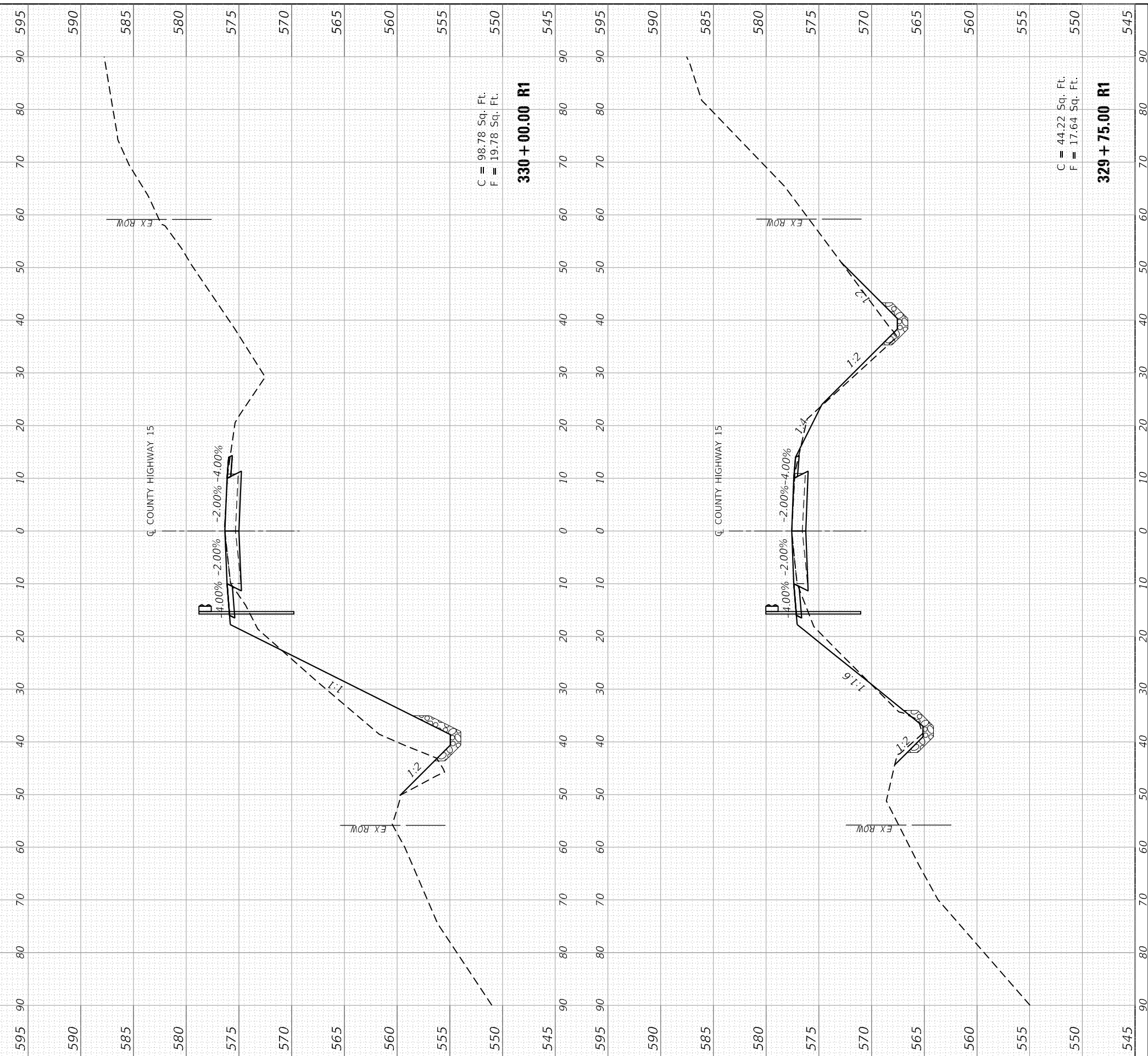
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DATE -	REVISED -

FULTON COUNTY HIGHWAY DEPARTMENT

COUNTY HIGHWAY 15 CULVERT REPLACEMENT CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 329+75.00 R1 TO STA. 330+00.00 R1

F.A.S. RTE. 446	SECTION 19-00906-00-DR	COUNTY FULTON	TOTAL SHEETS 13	SHEET NO. 11
ILLINOIS			CONTRACT NO. 89777	
FED. AID PROJECT: BEDC(023)				



FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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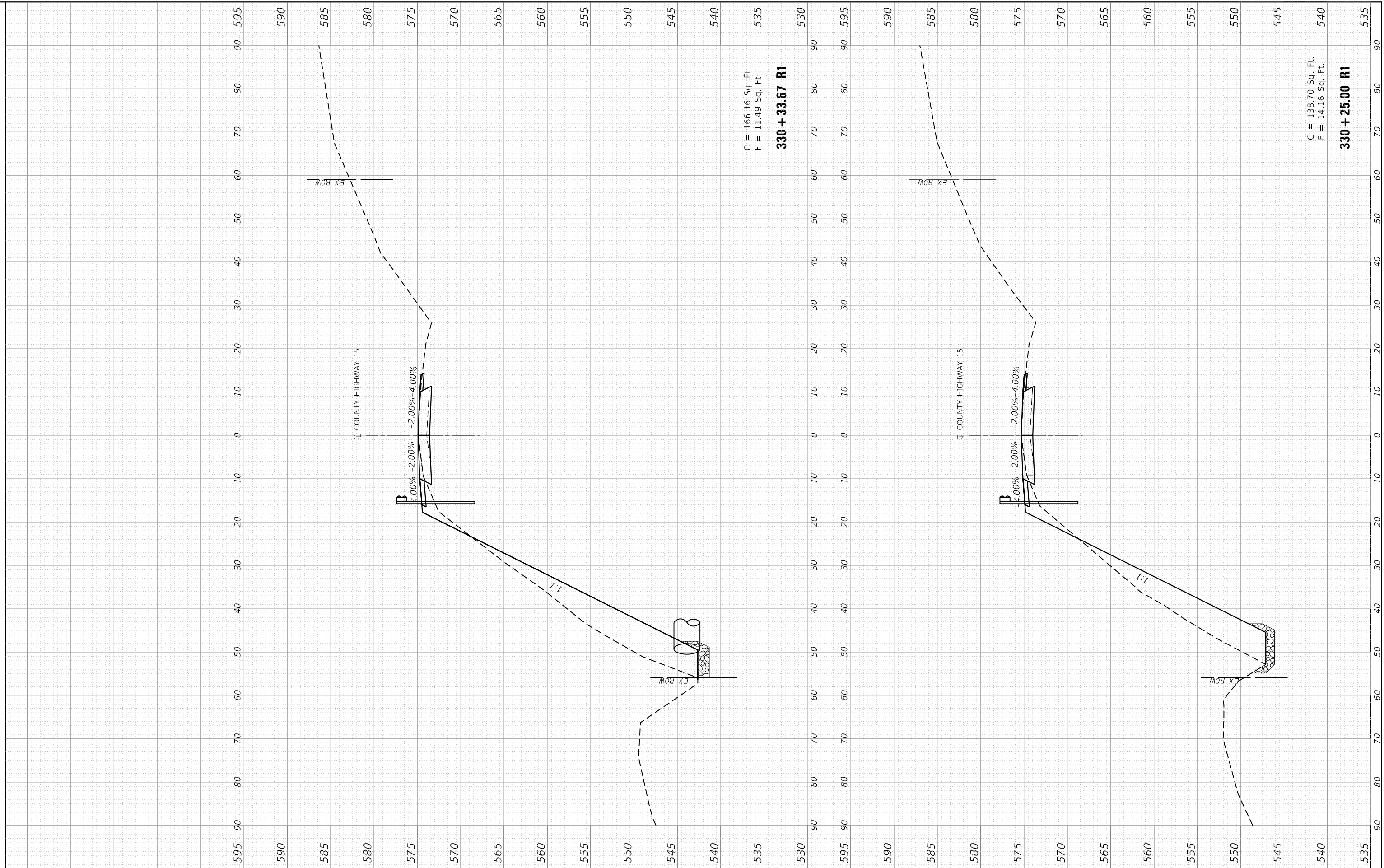
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DATE -	REVISD -

FULTON COUNTY HIGHWAY DEPARTMENT

COUNTY HIGHWAY 15 CULVERT REPLACEMENT  
 CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 330+25.00 R1 TO STA. 330+33.67 R1

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
446	19-00906-00-DR	FULTON	13	12
CONTRACT NO. 89777				
ILLINOIS				FED. AID PROJECT: BEDC(023)



C = 166.16 Sq. Ft.  
 F = 11.49 Sq. Ft.  
**330 + 33.67 R1**

C = 138.70 Sq. Ft.  
 F = 14.16 Sq. Ft.  
**330 + 25.00 R1**

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

MODEL: CH15  
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DATE -	
REVISIED -	
REVISIED -	
REVISIED -	

FULTON COUNTY HIGHWAY DEPARTMENT

COUNTY HIGHWAY 15 CULVERT REPLACEMENT CROSS SECTIONS

SCALE: SHEET OF SHEETS STA.330+50.00 R1 TO STA. 330+53.37 R1

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
446	19-00906-00-DR	FULTON	13	13
CONTRACT NO. 89777				
ILLINOIS				FED. AID PROJECT: BEDC(023)

