

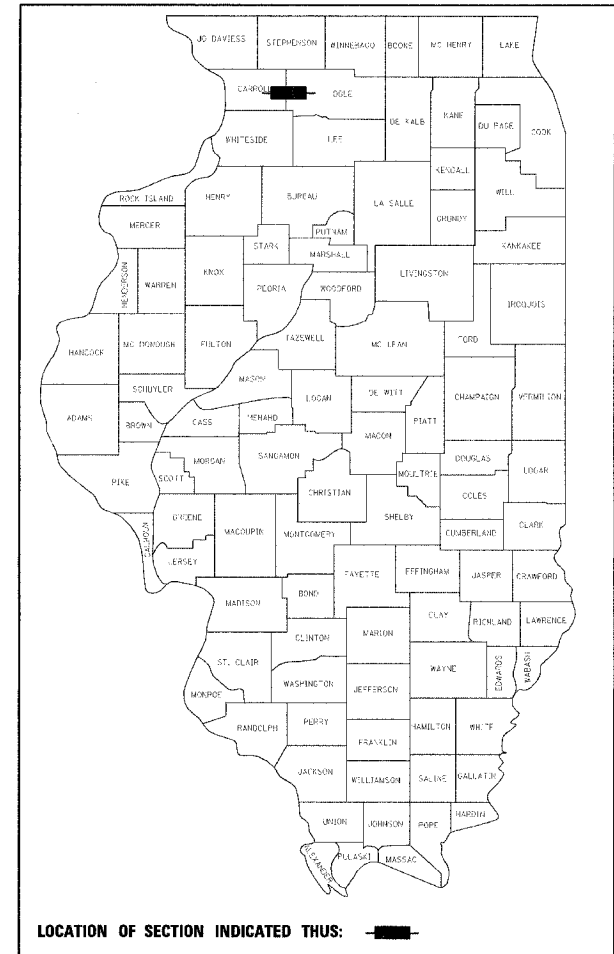
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAP ROUTE 545 (IL 72)  
SECTION 114T-1  
PROJECT: ACF-0545(003)  
CARROLL & OGLE COUNTIES  
REMOVE AND REPLACE SIX BOX CULVERTS  
C-92-031-07

FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION  
CARROLL COUNTY:  
390 (2027) - RURAL MINOR ARTERIAL  
OGLE COUNTY:  
430 (2027) - RURAL MINOR ARTERIAL



PROJECT ENGINEER  
MASOOD AHMED

SQUAD LEADER  
SAMEER (SAM) A. ABDULLAH  
(815) 284-5935

GREGORY R. BRUMM  
DLZ ILLINOIS, INC.  
(847) 640-0840

PROP. S.N. 008-1090  
STA. 244+43.50  
REMOVE EXISTING 10' x 0' BOX CULVERT  
AND CONSTRUCT 2 CELL 10' x 5' BOX CULVERT  
PROJECT BEGINS STA. 241+15.29  
PROJECT ENDS STA. 246+18.05

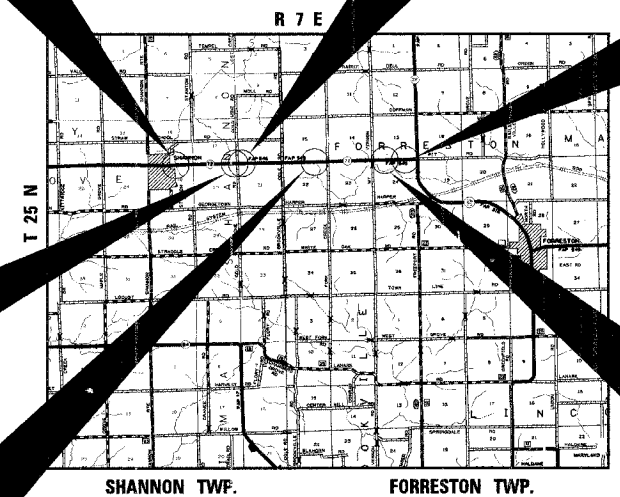
PROP. S.N. 008-1091  
STA. 322+38.25  
REMOVE EXISTING 8' x 5' BOX CULVERT  
AND CONSTRUCT 2 CELL 7' x 4' BOX CULVERT  
PROJECT BEGINS STA. 320+34.75  
PROJECT ENDS STA. 325+10.25

PROP. S.N. 071-1152  
STA. 145+06.61  
REMOVE EXISTING DOUBLE 6' x 5' BOX CULVERT  
AND CONSTRUCT 2 CELL 8' x 4' BOX CULVERT  
PROJECT BEGINS STA. 142+86.12  
PROJECT ENDS STA. 148+91.73

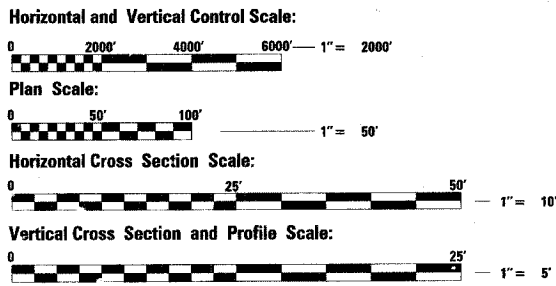
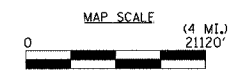
PROP. S.N. 008-1092  
STA. 313+79.80  
REMOVE EXISTING 10' x 5' BOX CULVERT  
AND CONSTRUCT 2 CELL 8' x 4' BOX CULVERT  
PROJECT BEGINS STA. 310+05.82  
PROJECT ENDS STA. 316+16.08

PR. P. S.N. 071-1151  
STA. 121+43.48  
REMOVE EXISTING DOUBLE 7' x 4' BOX CULVERT  
AND CONSTRUCT 5 CELL 6' x 3' BOX CULVERT  
PROJECT BEGINS STA. 118+89.29  
PROJECT ENDS STA. 124+37.92

PROP. S.N. 071-1150  
STA. 38+85.17  
REMOVE EXISTING 6' x 4.5' BOX CULVERT  
AND CONSTRUCT 2 CELL 5' x 3' BOX CULVERT  
PROJECT BEGINS STA. 35+76.20  
PROJECT ENDS STA. 41+16.83



GROSS LENGTH PROJECT = 3,283.39 FEET = 0.622 MILES  
NET LENGTH PROJECT = 3,283.39 FEET = 0.622 MILES



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

ROADWAY AND STRUCTURES DESIGNED BY



GREGORY R. BRUMM  
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS  
SEAL

Signature: Gregory R. Brumm  
H-30-07  
EXPIRES

WAYNE A. TRICE  
REGISTERED STRUCTURAL ENGINEER 081-005429  
STATE OF ILLINOIS  
SEAL

Signature: Wayne A. Trice  
H-30-08  
EXPIRES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED December 15 20 06

Signature: Joseph E. Curran  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Signature: Eric E. Harrell  
ENGINEER OF DESIGN AND ENVIRONMENT

Signature: Milton R. Seay, P.E., P.D.  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

CONTRACT NO. 64C31

SHANNON TOWNSHIP SECTION 16 - 21  
FORRESTON TOWNSHIP SECTION 13, 15, 22, 24

CARROLL & OGLE COUNTIES

SECTION 114T-1

ROUTE : FAP ROUTE 545 (IL 72)



SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	NO.
545	114T-1	*	118	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* CARROLL & OGLE				

CODE *	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE					
				80% FEDERAL 20% STATE ROADWAY 1000	CARROLL COUNTY 80% FEDERAL 20% STATE BOX CULVERT Y007	80% FEDERAL 20% STATE BOX CULVERT X028-2A S. N. 008-1090	80% FEDERAL 20% STATE ROADWAY 1000	OGLE COUNTY 80% FEDERAL 20% STATE BOX CULVERT Y007	80% FEDERAL 20% STATE BOX CULVERT X028-2A S. N. 071-1151
20101100	TREE TRUNK PROTECTION	EACH	6		6				
* 20101400	NITROGEN FERTILIZER NUTRIENT	POUND	298	9	151			138	
* 20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	298	9	151			138	
* 20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	298	9	151			138	
20200100	EARTH EXCAVATION	CU YD	4944	174	2903			1867	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	CU YD	595			105		235	255
* 25000100	SEEDING, CLASS 1	ACRE	0.25					0.25	
* 25000210	SEEDING, CLASS 2A	ACRE	2.50	0.10	1.40			1.00	
* 25000310	SEEDING, CLASS 4	ACRE	0.75		0.40			0.35	
* 25000750	MOWING	ACRE	2.75	0.10	1.40			1.25	
* 25100115	MULCH, METHOD 2	ACRE	3.35	0.25	1.60			1.50	
25100630	EROSION CONTROL BLANKET	SO YD	1125		563			562	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1853	10	947			896	
28000300	TEMPORARY DITCH CHECKS	EACH	44		24			20	
28000400	PERIMETER EROSION BARRIER	FOOT	2510		1545			965	
28000500	INLET AND PIPE PROTECTION	EACH	9		5			4	
28100105	STONE RIPRAP, CLASS A3	SO YD	534		534				
28100107	STONE RIPRAP, CLASS A4	SO YD	487		122	140		115	110
28200200	FILTER FABRIC	SO YD	1021		656	140		115	110
31100910	SUB-BASE GRANULAR MATERIAL, TYPE A 12"	SO YD	516	516					
35101400	AGGREGATE BASE COURSE, TYPE B	TON	432		119			313	
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	68		36			32	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	310		157			153	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	1459	370			1073	16	
44201396	CLASS C PATCHES, TYPE IV, 13 INCH	SO YD	1219		651			568	
48100100	AGGREGATE SHOULDERS, TYPE A	TON	2210		985			1225	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	242	44			198		
48203019	HOT-MIX ASPHALT SHOULDERS, 5 1/2"	SO YD	1586		784			802	
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1			1			
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1			1			
50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1			1			
50100600	REMOVAL OF EXISTING STRUCTURES NO. 4	EACH	1					1	
50100700	REMOVAL OF EXISTING STRUCTURES NO. 5	EACH	1						1
50100800	REMOVAL OF EXISTING STRUCTURES NO. 6	EACH	1					1	
50104400	CONCRETE HEADWALL REMOVAL	EACH	2	2					
50800105	REINFORCEMENT BARS	POUND	10,020	48	5253	1637		3082	
51500100	NAME PLATES	EACH	6		2	1		2	1
54001001	BOX CULVERT END SECTION, CULVERT NO. 1	EACH	4		4				
54001002	BOX CULVERT END SECTION, CULVERT NO. 2	EACH	4					4	
54001003	BOX CULVERT END SECTION, CULVERT NO. 3	EACH	10						10
54001004	BOX CULVERT END SECTION, CULVERT NO. 4	EACH	4					4	
54002020	EXPANSION BOLTS 3/4 INCH	EACH	8	8					
54003000	CONCRETE BOX CULVERTS	CU YD	78		36	25		17	
54010503	PRECAST CONCRETE BOX CULVERT 5' X 3'	FOOT	90					90	
54010603	PRECAST CONCRETE BOX CULVERT 6' X 3'	FOOT	240						240
54010604	PRECAST CONCRETE BOX CULVERT 6' X 4'	FOOT	124		124				
54010704	PRECAST CONCRETE BOX CULVERT 7' X 4'	FOOT	192		192				
54010804	PRECAST CONCRETE BOX CULVERT 8' X 4'	FOOT	110					110	
54011005	PRECAST CONCRETE BOX CULVERT 10' X 5'	FOOT	170			170			

\* SPECIALTY ITEM ○ NON-PARTICIPATING

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION IL RTE 72 BOX CULVERT REPLACEMENTS SUMMARY OF QUANTITIES
NAME	DATE	
		SCALE: VERT.    DRAWN BY HORIZ.        CHECKED BY DATE

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SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1	*	118	4
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* CARROLL & OGLE				

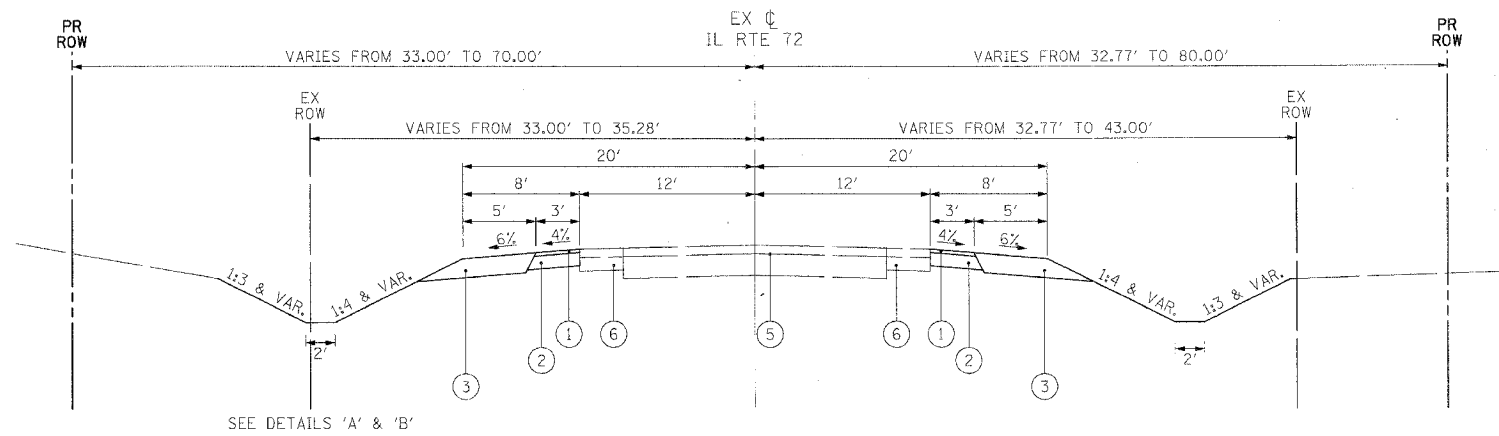
CODE	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE					
				80% FEDERAL 20% STATE ROADWAY 1000	CARROLL COUNTY 80% FEDERAL 20% STATE BOX CULVERT Y007	80% FEDERAL 20% STATE BOX CULVERT X028-2A S. N. 008-1090	80% FEDERAL 20% STATE ROADWAY 1000	OGLE COUNTY 80% FEDERAL 20% STATE BOX CULVERT Y007	80% FEDERAL 20% STATE BOX CULVERT X028-2A S. N. 071-1151
54200220	PIPE CULVERTS, CLASS D, TYPE I 15"	FOOT	50		50				
54200223	PIPE CULVERTS, CLASS D, TYPE I 18"	FOOT	111	5				106	
54200229	PIPE CULVERTS, CLASS D, TYPE I 24"	FOOT	52		52				
54205905	PIPE CULVERTS, TYPE I, CORRUGATED STEEL, EQUIVALENT ROUND-SIZE 30"	FOOT	106					106	
54207159	PIPE CULVERTS, TYPE I, REINFORCED CONCRETE-ELLIPTICAL, EQUIVALENT ROUND-SIZE 24"	FOOT	7	7					
54213453	END SECTIONS 18"	EACH	1	1					
54214719	PRECAST REINFORCED CONCRETE FLARED END SECTIONS-ELLIPTICAL EQUIVALENT ROUND-SIZE 24"	EACH	2	2					
54215550	METAL END SECTIONS 15"	EACH	2		2				
54215553	METAL END SECTIONS 18"	EACH	4					4	
54215559	METAL END SECTIONS 24"	EACH	2		2				
54248510	CONCRETE COLLAR	CU YD	1.1	1.1					
60100925	PIPE DRAINS 8"	FOOT	40		20			20	
60100935	PIPE DRAINS 10"	FOOT	20		10			10	
61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	230		125			105	
61100605	MISCELLANEOUS CONCRETE	CU YD	6		3			3	
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	6		3			3	
63200310	GUARDRAIL REMOVAL	FOOT	1227		580			647	
63500105	DELINEATORS	EACH	24		12			12	
66500105	WOVEN WIRE FENCE 4'	FOOT	100	100					
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	84		40			44	
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	6		3			3	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4		2			2	
67100100	MOBILIZATION	L SUM	1		0.5			0.5	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5			0.5		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	10					
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	7178	3125	1080		2033	940	
* 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	62	62					
* 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	30	30					
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	6		3			3	
78300500	PAINT PAVEMENT MARKING REMOVAL	SO FT	267	267					
X7013015	TRAFFIC CONTROL FOR ROAD CLOSURE	L SUM	1		0.5			0.5	
Z0005400	BREAKER-RUN CRUSHED STONE	TON	957			171		376	410
Z0013798	CONSTRUCTION LAYOUT	L SUM	1		0.5			0.5	
Z0049800	RELOCATE EXISTING SURVEY MARKERS	EACH	1		1				
Z0076800	TURF REINFORCEMENT MAT	SO YD	60	60					
X0325666	CORRUGATED STEEL PIPE MULTIPLE END SECTIONS (DOUBLE) EQUIVALENT ROUND-SIZE 30"	EACH	2					2	

\* SPECIALTY ITEM

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION  IL RTE 72 BOX CULVERT REPLACEMENTS SUMMARY OF QUANTITIES		
NAME	DATE			
SCALE:	VERT. DATE	HORIZ.	DRAWN BY	CHECKED BY

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1		118	5
STA.	TO STA.			
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
CARROLL & OGLE				



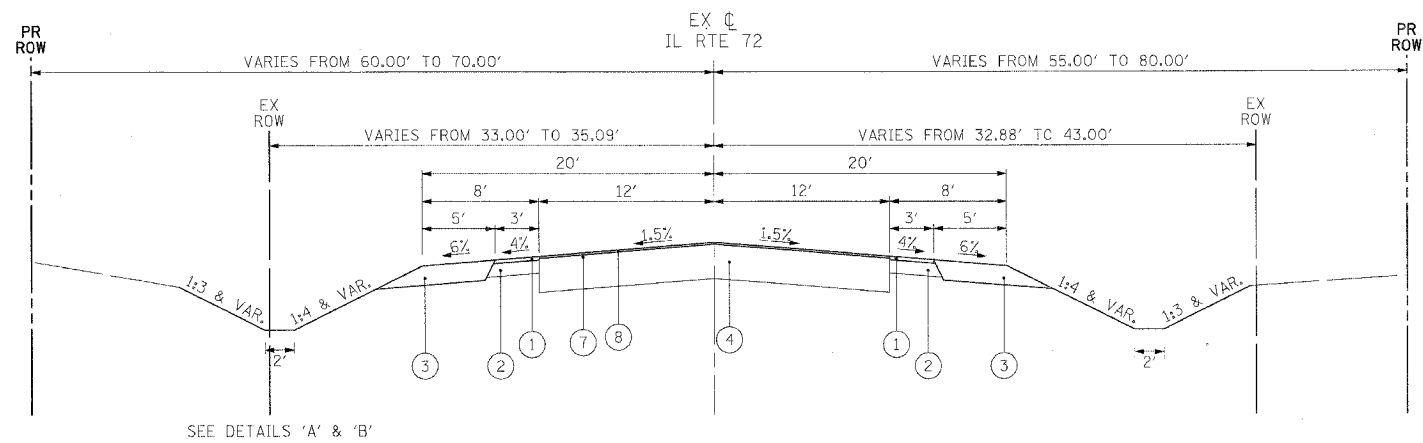
SEE DETAILS 'A' & 'B'

**PROPOSED TYPICAL SECTION - IL RTE 72**

STA. 241+15.29 TO STA. 244+15.00	STA. 35+76.20 TO STA. 38+45.00
STA. 244+75.00 TO STA. 246+18.05	STA. 39+25.00 TO STA. 41+16.83
STA. 310+05.82 TO STA. 313+55.00	STA. 118+89.29 TO STA. 121+10.00
STA. 314+05.00 TO STA. 316+16.08	STA. 121+80.00 TO STA. 124+37.92
STA. 320+34.75 TO STA. 321+75.00	STA. 142+86.12 TO STA. 144+80.00
STA. 323+00.00 TO STA. 325+10.25	STA. 145+35.00 TO STA. 148+91.73

**PROPOSED LEGEND**

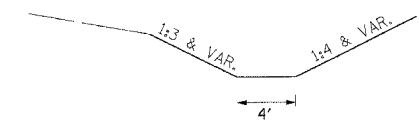
- ① 2 1/2" HOT-MIX ASPHALT SURFACE COURSE MIX "C", N50
- ② HOT-MIX ASPHALT SHOULDERS, 5 1/2"
- ③ 8" AGGREGATE SHOULDERS, TYPE A
- ④ CLASS C PATCHES, TYPE IV, 13"
- ⑤ EXISTING PAVEMENT WITH OVERLAY
- ⑥ EXISTING HMA BASE COURSE
- ⑦ 1" LEVELING BINDER (MACHINE METHOD), N50
- ⑧ 1 1/2" HOT-MIX ASPHALT SURFACE COURSE MIX "C", N50



SEE DETAILS 'A' & 'B'

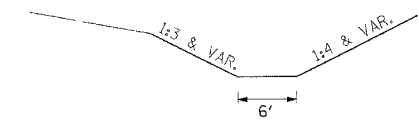
**PROPOSED TYPICAL SECTION - IL RTE 72 @ PROPOSED CULVERTS**

STA. 244+15.00 TO STA. 244+75.00	STA. 38+45.00 TO STA. 39+25.00
STA. 313+55.00 TO STA. 314+05.00	STA. 121+10.00 TO STA. 121+80.00
STA. 321+75.00 TO STA. 323+00.00	STA. 144+80.00 TO STA. 145+35.00



**DETAIL 'A'**

STA. 119+00 TO STA 119+50 (LT)



**DETAIL 'B'**

STA. 120+00 TO STA 121+43.48 (LT)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 IL RTE 72 BOX CULVERT REPLACEMENTS  
 TYPICAL SECTIONS

SCALE: VERT.  
 HORIZ.  
 DATE

DRAWN BY  
 CHECKED BY





F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	1147-1		118	8

STA.	TO STA.
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

\* CARROLL & OGLE

SCHEDULE OF QUANTITIES

54011005 PRECAST CONCRETE BOX CULVERT 10' x 5'  
 FOOT LOCATION  
 170 STA. 244+43.50 (CULVERT)  
 170 TOTAL

54200220 PIPE CULVERTS, CLASS D, TYPE 1 15"  
 FOOT LOCATION  
 50 STA. 242+77 RT 33' OFFSET  
 50 TOTAL

54200223 PIPE CULVERTS, CLASS D, TYPE 1 18"  
 FOOT LOCATION  
 55 STA. 37+36 RT 35' OFFSET  
 51 STA. 146+80 RT 35' OFFSET  
 5 STA. 39+39 LT (SHANNON RD)  
 111 TOTAL

54200229 PIPE CULVERTS, CLASS D, TYPE 1 24"  
 FOOT LOCATION  
 52 STA. 312+40 RT 38.5' OFFSET  
 52 TOTAL

54205905 PIPE CULVERTS, TYPE I, CORRUGATED STEEL, EQUIVALENT ROUND-SIZE 30"  
 FOOT LOCATION  
 53 STA. 120+22 LT 39' OFFSET  
 53 STA. 120+22 LT 35' OFFSET  
 106 TOTAL

54207159 PIPE CULVERTS, TYPE I, REINFORCED CONCRETE- ELLIPTICAL, EQUIVALENT ROUND-SIZE 24"  
 FOOT LOCATION  
 3 STA. 1226+49 LT (IL 64)  
 4 STA. 1227+13 LT (IL 64)  
 7 TOTAL

54213453 END SECTIONS 18"  
 EACH LOCATION  
 1 STA. 39+39 LT (SHANNON RD.)  
 1 TOTAL

54214719 PRC FLARED END SECTIONS-ELLIPTICAL, EQUIVALENT ROUND SIZE 24"  
 EACH LOCATION  
 1 STA. 1226+49 LT (IL 64)  
 1 STA. 1227+13 LT (IL 64)  
 2 TOTAL

54215550 METAL END SECTIONS 15"  
 EACH LOCATION  
 1 STA. 242+53.19 RT 33' OFFSET  
 1 STA. 243+02.75 RT 33' OFFSET  
 2 TOTAL

54215553 METAL END SECTIONS 18"  
 EACH LOCATION  
 1 STA. 37+07.94 RT 35' OFFSET  
 1 STA. 37+62.99 RT 35' OFFSET  
 1 STA. 146+54.01 RT 35' OFFSET  
 1 STA. 147+04.70 RT 35' OFFSET  
 4 TOTAL

54215559 METAL END SECTIONS 24"  
 EACH LOCATION  
 1 STA. 312+14.61 RT 38.5' OFFSET  
 1 STA. 312+66.31 RT 38.5' OFFSET  
 2 TOTAL

63200310 GUARDRAIL REMOVAL  
 FOOT LOCATION  
 101 STA. 244+02 TO 245+03 LT  
 76 STA. 244+07 TO 244+83 RT  
 100 STA. 313+47 TO 314+48 LT  
 101 STA. 313+12 TO 314+13 RT  
 101 STA. 321+80 TO 322+81 LT  
 101 STA. 321+71 TO 322+72 RT  
 101 STA. 38+40 TO 39+41 LT  
 101 STA. 38+30 TO 39+31 RT  
 100 STA. 121+09 TO 122+10 LT  
 115 STA. 120+63 TO 121+78 RT  
 129 STA. 144+47 TO 145+76 LT  
 101 STA. 144+49 TO 145+49 RT  
 1227 TOTAL

63500105 DELINEATORS  
 EACH LOCATION  
 4 STA. 244+43.50 LT & RT (CULVERT)  
 4 STA. 313+79.80 LT & RT (CULVERT)  
 4 STA. 322+38.25 LT & RT (CULVERT)  
 4 STA. 38+85.17 LT & RT (CULVERT)  
 4 STA. 121+43.48 LT & RT (CULVERT)  
 4 STA. 145+06.61 LT & RT (CULVERT)  
 24 TOTAL

66600105 FURNISHING AND ERECTING RIGHT OF WAY MARKERS  
 EACH LOCATION  
 1 241+00 35.28' LT  
 1 242+00 45' LT  
 1 244+00 60' LT  
 1 244+75 60' LT  
 1 245+50 45' LT  
 1 246+50 35.04' LT  
 1 241+75 32.77' RT  
 1 242+25 50' RT  
 1 243+25 50' RT  
 1 244+00 65' RT  
 1 245+00 65' RT  
 1 245+50 40' RT  
 1 246+00 32.95' RT  
 1 310+00 33' LT  
 1 311+00 50' LT  
 1 313+50 50' LT  
 1 313+65 70' LT  
 1 314+00 70' LT  
 1 314+25 50' LT  
 1 316+00 45' LT  
 1 317+00 33' LT  
 1 310+00 35' RT  
 1 311+00 50' RT  
 1 313+25 50' RT  
 1 313+50 80' RT  
 1 314+00 80' RT  
 1 315+00 60' RT  
 1 316+35 45' RT  
 1 316+35 33.63' RT  
 1 321+00 35' LT  
 1 321+75 65' LT  
 1 322+25 65' LT  
 1 322+50 50' LT  
 1 324+00 50' LT  
 1 325+00 35' LT  
 1 321+00 43' RT  
 1 322+00 70' RT  
 1 322+75 70' RT  
 1 324+00 55' RT  
 1 324+38.98 43' RT  
 1 36+00 33' LT  
 1 37+00 50' LT  
 42 TOTAL

66700305 PERMANENT SURVEY MARKERS, TYPE II  
 EACH LOCATION  
 1 STA. 244+43.50 (CULVERT)  
 1 STA. 313+79.80 (CULVERT)  
 1 STA. 322+38.25 (CULVERT)  
 1 STA. 38+85.17 (CULVERT)  
 1 STA. 121+43.48 (CULVERT)  
 1 STA. 145+06.61 (CULVERT)  
 6 TOTAL

78001110 PAINT PAVEMENT MARKING - LINE 4"  
 FOOT LOCATION  
 120 STA. 244+15 TO 244+75 LT EOP (WHITE) (2 APPLICATIONS)  
 120 STA. 244+15 TO 244+75 RT EOP (WHITE) (2 APPLICATIONS)  
 40 STA. 244+15 TO 244+75 2 SKIP/DASH (YELLOW) (2 APPLICATIONS)  
 100 STA. 313+55 TO 314+05 LT EOP (WHITE) (2 APPLICATIONS)  
 100 STA. 313+55 TO 314+05 RT EOP (WHITE) (2 APPLICATIONS)  
 40 STA. 313+55 TO 314+05 2 SKIP/DASH (YELLOW) (2 APPLICATIONS)  
 250 STA. 321+75 TO 323+00 LT EOP (WHITE) (2 APPLICATIONS)  
 250 STA. 321+75 TO 323+00 RT EOP (WHITE) (2 APPLICATIONS)  
 60 STA. 321+75 TO 323+00 3 SKIP/DASH (YELLOW) (2 APPLICATIONS)  
 160 STA. 38+45 TO 39+25 LT EOP (WHITE) (2 APPLICATIONS)  
 160 STA. 38+45 TO 39+25 RT EOP (WHITE) (2 APPLICATIONS)  
 40 STA. 38+45 TO 39+25 2 SKIP/DASH (YELLOW) (2 APPLICATIONS)  
 40 STA. 121+10 TO 121+80 LT EOP (WHITE) (2 APPLICATIONS)  
 140 STA. 121+10 TO 121+80 RT EOP (WHITE) (2 APPLICATIONS)  
 40 STA. 121+10 TO 121+80 2 SKIP/DASH (YELLOW) (2 APPLICATIONS)  
 110 STA. 144+80 TO 145+35 LT EOP (WHITE) (2 APPLICATIONS)  
 110 STA. 144+80 TO 145+35 RT EOP (WHITE) (2 APPLICATIONS)  
 40 STA. 144+80 TO 145+35 2 SKIP/DASH (YELLOW) (2 APPLICATIONS)  
 366 STA. 38+58 TO 39+89 LT RETURN SHANNON RD. (2 APPLICATIONS)  
 480 STA. 10+15 TO 11+90 LT RETURN SHANNON RD. (2 APPLICATIONS)  
 274 STA. 10+12 TO 11+02 RT RETURN SHANNON RD. (2 APPLICATIONS)  
 862 STA. 10+43 TO 11+64 PAINTED MEDIAN SHANNON RD. (2 APPLICATIONS)  
 3176 SHANNON RD DETOUR ROUTE (USE 5%) (EOP, CL, EOP)  
 7178 TOTAL

78001150 PAINT PAVEMENT MARKING - LINE 12"  
 FOOT LOCATION  
 62 STA. 10+43 TO 11+64 PAINTED MEDIAN SHANNON RD. (2 APPLICATIONS)  
 62 TOTAL

78001180 PAINT PAVEMENT MARKING - LINE 24"  
 FOOT LOCATION  
 30 STA. 10+45 LT - STOP BAR SHANNON RD (2 APPLICATIONS)  
 30 TOTAL

78100100 RAISED REFLECTIVE PAVEMENT MARKER  
 EACH LOCATION  
 1 STA. 244+34 (0.00') RT  
 1 STA. 322+17 (0.00') RT  
 1 STA. 322+97 (0.00') RT  
 1 STA. 38+63 (0.00') RT  
 1 STA. 121+81 (0.00') RT  
 1 STA. 144+86 (0.00') RT  
 6 TOTAL

78300500 PAVEMENT MARKING REMOVAL  
 SQ FT LOCATION  
 78 STA. 10+15 TO 11+90 LT - EDGE OF PAVEMENT SHANNON RD.  
 43 STA. 10+12 TO 11+02 RT - EDGE OF PAVEMENT SHANNON RD.  
 88 STA. 38+58 TO 39+89 LT - EDGE OF PAVEMENT SHANNON RD.  
 58 STA. 10+33 TO 11+64 DOUBLE YELLOW CENTERLINE SHANNON RD.  
 267 TOTAL

Z0049800 RELOCATE EXISTING SURVEY MARKERS  
 EACH LOCATION  
 1 STA. 244+06.25 OFFSET 35.32' LT  
 1 TOTAL

Z0076800 TURF REINFORCEMENT MAT  
 SQ YD LOCATION  
 60 STA. 39+25 TO 39+75 LT (SHANNON ROAD)  
 60 TOTAL

\*Z000100 CORRUGATED STEEL PIPE MULTIPLE END SECTIONS DOUBLE EQUIVALENT ROUND-SIZE 30"  
 EACH LOCATION  
 1 STA. 119+95.45 LT 36.9' OFFSET  
 1 STA. 120+48.46 LT 40.8' OFFSET  
 2 TOTAL

CONTINGENCY ITEMS FOR FIELD TILE REPAIR AND REPLACEMENT

CODE #	ITEM	UNIT	QUANTITY
60100325	PIPE DRAINS 8"	FOOT	40
60100335	PIPE DRAINS 10"	FOOT	20
61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	230
61100605	MISCELLANEOUS CONCRETE	CU YD	6
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	6

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		IL RTE 72 BOX CULVERT REPLACEMENTS SCHEDULE OF QUANTITIES  SCALE: VERT. DATE HORIZ. DRAWN BY CHECKED BY

PLT DATE =  
 FILE NAME =  
 PLOT SCALE =  
 USER NAME =



SCHEDULE OF EARTHWORK

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1		118	9
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* CARROLL & OGLE				

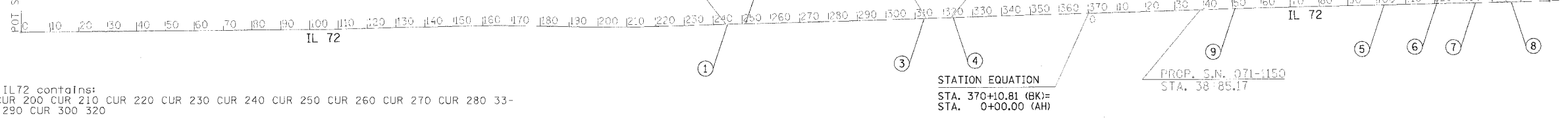
Sta	EARTH EXCAVATION CU YD	EMBANKMENT CU YD	Excavation used in Embankment (Adj for Shrinkage) CU YD	Earthwork Balance Waste (+) or Shortage (-) CU YD
IL RTE 72				
CARROLL CO.				
24100	3	16	2	-14
24150	22	33	17	-16
24200	53	35	40	5
24250	51	40	39	-1
24300	71	61	54	-8
24350	135	103	102	-1
24400	145	123	108	-15
24450	111	91	83	-8
24500	71	39	54	15
24550	30	8	22	14
24600	6	1	5	4
24650	0	0	0	0
31000	5	2	4	2
31050	16	7	12	5
31100	29	12	22	11
31150	46	19	35	16
31200	49	20	36	16
31250	64	21	48	27
31300	149	54	112	58
31350	174	85	131	46
31400	128	67	96	29
31450	102	45	66	22
31500	68	31	51	21
31550	53	9	40	31
31600	27	0	20	20
31650	0	0	0	0
32000	12	3	9	3
32050	30	13	22	9
32100	96	41	72	30
32150	238	100	179	79
32200	281	147	211	64
32250	219	107	164	57
32300	167	45	125	81
32350	116	32	87	55
32400	78	31	59	28
32450	43	23	32	9
32500	13	8	10	2
32550	0	0	0	0
Co. Total =	2903	1469	2178	709
OGLE CO.				
3550	6	3	4	2
3600	19	12	14	2
3650	35	29	27	-2
3700	35	41	26	-14
3750	25	61	19	-42
3800	22	100	16	-84
3850	26	120	19	-100
3900	28	94	21	-73
3950	24	54	18	-36
4000	23	28	17	-10
4050	24	19	18	-1
4100	13	10	10	0
4150	0	0	0	0
11850	11	3	8	5
11900	29	10	22	11
11950	23	40	17	-23
12000	41	52	31	-21
12050	109	33	82	49
12100	184	22	138	116
12150	148	41	111	69
12200	83	64	62	-2
12250	64	62	48	-15
12300	30	61	23	-39
12350	23	40	17	-23
12400	10	10	8	-3
12450	0	0	0	0
14250	2	0	2	2
14300	13	12	10	-3
14350	17	21	12	-9
14400	24	20	18	-2
14450	165	36	123	87
14500	177	97	133	36
14550	56	98	42	-55
14600	76	36	57	21
14650	92	12	69	57
14700	94	4	70	67
14750	80	4	60	57
14800	32	3	24	21
14850	4	1	3	2
14900	0	0	0	0
Co. Total =	1867	1354	1400	46
IL 64	51.1	9.8	38.3	28.5
SHANNON RD @ IL 64	84.9	26.3	63.7	37.4
IL 72	17.5	2	13.1	11.1
SHANNON RD @ IL 72	19.9	1.8	14.9	13.1
TOTAL =	4943.4	2862.9	3708	845.1

Shrinkage Factor = 25%

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		IL RTE 72 BOX CULVERT REPLACEMENTS SCHEDULE OF QUANTITIES
SCALE:	VERT. HORIZ.	DRAWN BY
DATE		CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1		118	10
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
	* CARROLL & OGLE			

POINT STA 0+00.00



Chain IL72 contains:  
 310 CUR 200 CUR 210 CUR 220 CUR 230 CUR 240 CUR 250 CUR 260 CUR 270 CUR 280 33-  
 0 CUR 290 CUR 300 320

Beginning chain IL72 description  
 =====

Point 310 N 1,998,929.8076 E 2,389,535.2463 Sta 0+00.00  
 Course from 310 to PC 200 N 89° 27' 45.65" E Dist 5,436.7454

Curve Data  
 -----  
**Curve 200**  
 P.I. Station = 59+36.75 N 1,998,985.7226 E 2,395,471.7283  
 Delta = 0° 06' 20.26" (RT)  
 Degree = 0° 00' 38.03"  
 Tangent = 500.0000  
 Length = 999.9997  
 Radius = 542,432.5296  
 External = 0.2304  
 Long Chord = 999.9996  
 Mid. Ord. = 0.2304  
 P.C. Station = 54+36.75 N 1,998,980.7926 E 2,394,971.7526  
 P.T. Station = 64+36.75 N 1,998,989.7308 E 2,395,971.7122  
 C.C. = N 1,456,574.6308 E 2,400,320.0994  
 Back = N 89° 26' 06.21" E  
 Ahead = N 89° 32' 26.47" E  
 Chord Bear = N 89° 29' 16.34" E

Course from PT 200 to PC 210 N 89° 32' 26.47" E Dist 3,547.8661

Curve Data  
 -----  
**Curve 210**  
 P.I. Station = 105+09.69 N 1,999,022.3814 E 2,400,044.5310  
 Delta = 1° 12' 23.46" (LT)  
 Degree = 0° 06' 53.61"  
 Tangent = 525.0836  
 Length = 1,050.1283  
 Radius = 49,869.0919  
 External = 2.7643  
 Long Chord = 1,050.1089  
 Mid. Ord. = 2.7641  
 P.C. Station = 99+84.61 N 1,999,018.1721 E 2,399,519.4643  
 P.T. Station = 110+34.74 N 1,999,037.6457 E 2,400,569.3926  
 C.C. = N 2,048,885.6617 E 2,399,119.6908  
 Back = N 89° 32' 26.47" E  
 Ahead = N 88° 20' 03.01" E  
 Chord Bear = N 88° 56' 14.74" E

Course from PT 210 to PC 220 N 88° 20' 03.01" E Dist 1,257.3541

Curve Data  
 -----  
**Curve 220**  
 P.I. Station = 128+04.44 N 1,999,089.0912 E 2,402,338.3477  
 Delta = 0° 32' 15.89" (RT)  
 Degree = 0° 03' 08.92"  
 Tangent = 512.3489  
 Length = 1,024.6902  
 Radius = 109,178.3092  
 External = 1.2022  
 Long Chord = 1,024.6865  
 Mid. Ord. = 1.2021  
 P.C. Station = 122+92.09 N 1,999,074.1972 E 2,401,826.2153  
 P.T. Station = 133+16.78 N 1,999,099.1781 E 2,402,850.5972  
 C.C. = N 1,889,942.0295 E 2,405,000.0447  
 Back = N 88° 20' 03.01" E  
 Ahead = N 88° 52' 18.90" E  
 Chord Bear = N 88° 36' 10.95" E

Course from PT 220 to PC 230 N 88° 52' 18.90" E Dist 2,759.0587

Curve Data  
 -----  
**Curve 230**  
 P.I. Station = 165+02.06 N 1,999,161.8881 E 2,406,035.2539  
 Delta = 1° 58' 39.54" (RT)  
 Degree = 0° 13' 41.21"  
 Tangent = 426.2154  
 Length = 852.3490  
 Radius = 25,117.3236  
 External = 3.6160  
 Long Chord = 852.3081  
 Mid. Ord. = 3.6154  
 P.C. Station = 160+75.84 N 1,999,153.4970 E 2,405,609.1211  
 P.T. Station = 169+28.19 N 1,999,155.8165 E 2,406,461.4260  
 C.C. = N 1,974,041.0416 E 2,406,103.6183  
 Back = N 88° 52' 18.90" E  
 Ahead = S 89° 11' 01.56" E  
 Chord Bear = N 89° 50' 38.67" E

Course from PT 230 to PC 240 S 89° 11' 01.56" E Dist 1,854.2191

Curve Data  
 -----  
**Curve 240**  
 P.I. Station = 193+61.96 N 1,999,121.1464 E 2,408,894.9448  
 Delta = 0° 39' 09.42" (LT)  
 Degree = 0° 03' 22.70"  
 Tangent = 579.5466  
 Length = 1,159.0807  
 Radius = 101,760.0432  
 External = 1.6503  
 Long Chord = 1,159.0744  
 Mid. Ord. = 1.6503  
 P.C. Station = 187+82.41 N 1,999,129.4023 E 2,408,315.4570  
 P.T. Station = 199+41.49 N 1,999,119.4915 E 2,409,474.4890  
 C.C. = N 2,100,879.1198 E 2,409,765.0751  
 Back = S 89° 11' 01.56" E  
 Ahead = S 89° 50' 10.99" E  
 Chord Bear = S 89° 30' 36.28" E

Course from PT 240 to PC 250 S 89° 50' 10.99" E Dist 1,019.7518

Curve Data  
 -----  
**Curve 250**  
 P.I. Station = 212+37.95 N 1,999,115.7893 E 2,410,770.9443  
 Delta = 1° 50' 39.90" (LT)  
 Degree = 0° 19' 59.90"  
 Tangent = 276.7088  
 Length = 553.3698  
 Radius = 17,190.1257  
 External = 2.2269  
 Long Chord = 553.3459  
 Mid. Ord. = 2.2267  
 P.C. Station = 209+61.24 N 1,999,116.5795 E 2,410,494.2366  
 P.T. Station = 215+14.61 N 1,999,123.9055 E 2,411,047.5341  
 C.C. = N 2,016,306.6361 E 2,410,543.3248  
 Back = S 89° 50' 10.99" E  
 Ahead = N 88° 19' 09.11" E  
 Chord Bear = N 89° 14' 29.06" E

Course from PT 250 to PC 260 N 88° 19' 09.11" E Dist 1,537.5955

Curve Data  
 -----  
**Curve 260**  
 P.I. Station = 240+18.37 N 1,999,197.3440 E 2,413,550.2138  
 Delta = 0° 04' 44.39" (RT)  
 Degree = 0° 00' 14.72"  
 Tangent = 966.1616  
 Length = 1,932.3229  
 Radius = 1,401,468.6294  
 External = 0.3330  
 Long Chord = 1,932.3227  
 Mid. Ord. = 0.3330  
 P.C. Station = 230+52.21 N 1,999,169.0052 E 2,412,584.4679  
 P.T. Station = 249+84.53 N 1,999,224.3513 E 2,414,515.9979  
 C.C. = N 598,303.3661 E 2,453,691.4063  
 Back = N 88° 19' 09.11" E  
 Ahead = N 88° 23' 53.51" E  
 Chord Bear = N 88° 21' 31.31" E

Course from PT 260 to PC 270 N 88° 23' 53.51" E Dist 3,825.3574

Curve Data  
 -----  
**Curve 270**  
 P.I. Station = 293+77.71 N 1,999,347.1542 E 2,418,907.4577  
 Delta = 0° 11' 05.39" (LT)  
 Degree = 0° 00' 58.59"  
 Tangent = 567.8191  
 Length = 1,135.6371  
 Radius = 352,035.2974  
 External = 0.4579  
 Long Chord = 1,135.6366  
 Mid. Ord. = 0.4579  
 P.C. Station = 288+09.89 N 1,999,331.2819 E 2,418,339.8605  
 P.T. Station = 299+45.53 N 1,999,364.8575 E 2,419,475.0007  
 C.C. = N 2,351,229.0163 E 2,408,499.3787  
 Back = N 88° 23' 53.51" E  
 Ahead = N 88° 12' 48.11" E  
 Chord Bear = N 88° 18' 20.81" E

Course from PT 270 to PC 280 N 88° 12' 48.11" E Dist 4,917.4368

Curve Data  
 -----  
**Curve 280**  
 P.I. Station = 353+82.45 N 1,999,534.3677 E 2,424,909.2774  
 Delta = 0° 21' 10.14" (RT)  
 Degree = 0° 02' 02.25"  
 Tangent = 519.4830  
 Length = 1,038.9628  
 Radius = 168,723.1350  
 External = 0.7997  
 Long Chord = 1,038.9612  
 Mid. Ord. = 0.7997  
 P.C. Station = 348+62.96 N 1,999,518.1714 E 2,424,390.0469  
 P.T. Station = 359+01.93 N 1,999,547.3663 E 2,425,428.5978  
 C.C. = N 1,830,877.0595 E 2,429,650.4324  
 Back = N 88° 12' 48.11" E  
 Ahead = N 88° 33' 58.25" E  
 Chord Bear = N 88° 23' 23.18" E

Course from PT 280 to PC 300 N 88° 33' 58.25" E Dist 1,108.8801

Equation: Sta 370+10.81 (BK) = Sta 0+00.00 (AH)  
 End Region 1  
 Begin Region 2  
 Point 330 N 1,999,575.1130 E 2,426,537.1308 Sta 0+00.00  
 Course from 330 to PC 290 N 88° 33' 58.25" E Dist 717.3214

Curve Data  
 -----  
**Curve 290**  
 P.I. Station = 14+54.58 N 1,999,611.5098 E 2,427,991.2507  
 Delta = 0° 15' 44.12" (LT)  
 Degree = 0° 01' 04.03"  
 Tangent = 737.2540  
 Length = 1,474.5053  
 Radius = 322,139.3945  
 External = 0.8436  
 Long Chord = 1,474.5040  
 Mid. Ord. = 0.8436  
 P.C. Station = 7+17.32 N 1,999,593.0620 E 2,427,254.2276  
 P.T. Station = 21+91.83 N 1,999,633.3308 E 2,428,726.1817  
 C.C. = N 2,321,631.5928 E 2,419,193.5712  
 Back = N 88° 33' 58.25" E  
 Ahead = N 88° 18' 14.13" E  
 Chord Bear = N 88° 26' 06.19" E

Course from PT 290 to PC 300 N 88° 18' 14.13" E Dist 3,082.8626

Curve Data  
 -----  
**Curve 300**  
 P.I. Station = 58+12.47 N 1,999,740.4940 E 2,432,347.2426  
 Delta = 0° 31' 51.29" (RT)  
 Degree = 0° 02' 57.70"  
 Tangent = 537.7846  
 Length = 1,075.5615  
 Radius = 116,073.5717  
 External = 1.2458  
 Long Chord = 1,075.5577  
 Mid. Ord. = 1.2458  
 P.C. Station = 52+74.69 N 1,999,724.5767 E 2,431,809.6936  
 P.T. Station = 63+50.25 N 1,999,751.4295 E 2,432,884.9160  
 C.C. = N 1,883,701.8580 E 2,435,245.2135  
 Back = N 88° 18' 14.13" E  
 Ahead = N 88° 50' 05.42" E  
 Chord Bear = N 88° 34' 09.77" E

Course from PT 300 to PC 320 N 88° 50' 05.42" E Dist 9,636.6129

Point 320 N 1,999,947.3852 E 2,442,519.5363 Sta 159+86.86  
 =====

Ending chain IL72 description  
 =====

PLOT DATE = DATE\*  
 FILE NAME = \$FILE\*  
 PLOT SCALE = \$SCALE\*  
 USER NAME = \$USER\*

APPARANT PROPERTY CORNERS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
700	1993818.4162	2410840.7286	916.8646	IL 72	212+37.66	5300.0596 RT	SECTION CORNER
701	1993827.5880	2410840.6316	917.2225	IL 72	212+37.67	5290.8874 RT	SECTION CORNER
702	1996491.6628	2410779.1560	962.0928	IL 72	212+14.91	2626.2499 RT	
703	2001760.0552	2410678.1379	935.2798	IL 72	211+69.64	2642.9211 LT	SECTION CORNER
704	2001763.3541	2410678.0004	935.4396	IL 72	211+69.51	2646.2212 LT	SECTION CORNER
705	2004568.8638	2415856.5581	876.8806	IL 72	264+73.96	5304.9513 LT	FOUND
706	1994123.2580	2421429.7220	975.7461	IL 72	317+35.88	5299.9949 RT	SECTION CORNER
707	1994050.0980	2418791.5130	987.9196	IL 72	291+09.24	5291.8745 RT	QUARTER CORNER
708	1993976.8960	2416153.4170	966.8489	IL 72	264+74.63	5291.1757 RT	SECTION CORNER
709	1993905.0630	2413509.0220	960.2354	IL 72	238+24.88	5288.5836 RT	QUARTER CORNER
710	1996776.9530	2421356.3060	958.8251	IL 72	317+45.23	2645.3010 RT	QUARTER CORNER
711	1999504.4510	2423952.3560	949.7150	IL 72	344+25.06	0.0676 RT	QUARTER CORNER
712	1999578.0520	2426537.0490	961.3775	IL 72	370+10.80	2.9401 LT	SECTION CORNER
713	2004879.0560	2426434.3420	922.5297	IL 72	0+29.96	5304.8543 LT	SECTION CORNER
714	2007381.9020	2421050.8560	881.7000	IL 72	317+70.57	7964.0157 LT	QUARTER CORNER
715	2010037.1460	2420965.9460	872.2762	IL 72	317+68.48	10620.6162 LT	GND
716	2004810.9260	2423783.9220	884.2830	IL 72	344+22.15	5309.0791 LT	QUARTER CORNER
717	2004509.0720	2413213.7040	876.9596	IL 72	238+34.83	5319.5322 LT	QUARTER CORNER
718	2004477.8220	2411892.5700	884.1319	IL 72	225+16.32	5326.8269 LT	FENCE POST
719	2004447.8660	2410618.3930	889.3718	IL 72	211+19.15	5331.1190 LT	GND
720	1996630.8050	2416075.4110	913.3758	IL 72	264+70.84	2636.1232 RT	QUARTER CORNER
721	2003087.2420	2410648.7830	910.8575	IL 72	211+47.46	3970.3120 LT	QUARTER CORNER
722	1999191.5530	2413347.2540	909.4087	IL 72	238+15.33	0.3723 LT	QUARTER CORNER
723	1999111.3940	2410723.6360	927.3705	IL 72	211+90.58	6.0607 RT	SECTION CORNER
724	2001919.0080	2415908.1720	913.7295	IL 72	264+51.49	2654.6882 LT	SECTION CORNER
725	1999428.9320	2421284.5840	914.1714	IL 72	317+56.23	7.6249 LT	GND
800	1999934.2330	2442517.5290	943.2375	IL 72	159+84.59	13.1087 RT	SECTION CORNER
801	1999930.9500	2442517.6050	943.2366	IL 72	159+84.60	16.3925 RT	SECTION CORNER
802	1997290.4510	2442589.6020	909.5212	IL 72	OffChain	OffChain	QUARTER CORNER
803	1994639.6780	2442654.2920	907.2513	IL 72	OffChain	OffChain	SECTION CORNER
804	1994593.7200	2440009.0160	913.4655	IL 72	133+68.00	5301.5081 RT	GND
805	1994542.8810	2437374.6590	942.5788	IL 72	107+33.15	5298.7682 RT	SECTION CORNER
806	1997194.5510	2437314.6520	937.9727	IL 72	107+27.08	2646.4263 RT	QUARTER CORNER
807	1999846.4340	2437254.1100	904.8918	IL 72	107+20.47	6.1395 LT	SECTION CORNER
808	2002499.8970	2437183.7980	944.0698	IL 72	107+04.13	2660.4836 LT	QUARTER CORNER
809	2005152.6800	2437109.6480	973.3370	IL 72	106+83.94	5314.2259 LT	SECTION CORNER
810	2005183.9390	2439746.3190	983.6378	IL 72	133+20.70	5291.8630 LT	QUARTER CORNER
811	2005215.1810	2442382.9880	978.5927	IL 72	159+57.46	5269.4832 LT	SECTION CORNER
812	2005204.2640	2442383.2850	978.5066	IL 72	159+57.54	5258.5625 LT	SECTION CORNER
813	2002574.6760	2442450.2370	947.6998	IL 72	159+71.00	2628.1567 LT	QUARTER CORNER
814	2002567.5920	2442450.4010	947.5347	IL 72	159+71.02	2621.0709 LT	QUARTER CORNER
815	1999890.4580	2439894.1990	918.4428	IL 72	133+60.91	3.5305 RT	QUARTER CORNER

BENCH MARKS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
401	1999245.4530	2414084.2830	895.3178	IL 72	245+53.58	33.2275' LT	BENCH TIE
403	1999446.3880	2421258.3580	913.4973	IL 72	317+30.56	25.8901' LT	CHISELED SQUARE (TBM)
405	1999816.6040	2437037.0400	904.3927	IL 72	105+02.84	19.2704' RT	DISK
406	1999827.6400	2438253.2830	905.3155	IL 72	117+19.06	32.9683' RT	RIGHT OF WAY MARKER
407	1999847.4360	2439942.9910	920.2193	IL 72	134+08.82	47.5358 RT	RAIL ROAD SPIKE
408	1999943.5940	2440753.5140	915.9843	IL 72	142+21.13	32.1208 LT	RIGHT OF WAY MARKER
453	1999543.3060	2426563.9570	960.4671	IL 72	0+26.02	32.4683 RT	RIGHT OF WAY MARKER
454	1999694.5050	2431898.2020	961.4128	IL 72	53+62.29	32.6452 RT	RIGHT OF WAY MARKER
455	1999868.5890	2437225.8760	903.8701	IL 72	106+92.70	28.8640 LT	CHISELED SQUARE (TBM)
78720665	1989283.9510	2437504.1230	963.7230	IL 72	107+55.65	10559.2434 RT	DISTRICT NETWORK MONUMENT
78721556	1985700.8290	2416392.3330	1043.0000	IL 72	264+82.11	13570.6872 RT	DISTRICT NETWORK MONUMENT

SURVEY WORK POINTS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
100	1999174.7128	2413587.4977	901.7294	IL 72	240+54.99	23.3563 RT	TRAVERSE STATION
101	1999280.0037	2413558.3108	899.8674	IL 72	240+28.83	82.7269 LT	TRAVERSE STATION
102	1999128.1056	2413947.0243	890.9232	IL 72	244+13.06	80.1870 RT	TRAVERSE STATION
103	1999379.0405	2413962.3729	889.5271	IL 72	244+35.51	170.2119 LT	TRAVERSE STATION
104	1999728.7247	2413878.9849	889.1005	IL 72	243+62.10	522.1211 LT	TRAVERSE STATION
105	2000042.8899	2413468.9501	895.5203	IL 72	239+61.39	847.8607 LT	TRAVERSE STATION

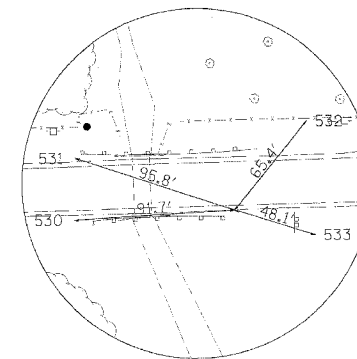
CURVE POINT NUMBERS				
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220	220	221	222	223
230	230	231	232	233
240	240	241	242	243
250	250	251	252	253
260	260	261	262	263
270	270	271	272	273
280	280	281	282	283
290	290	291	292	293
300	300	301	302	303

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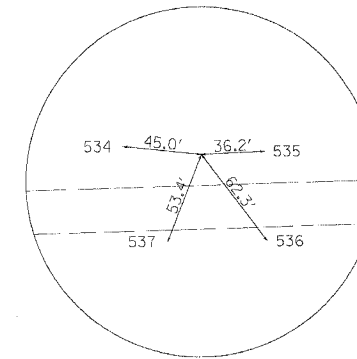
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
545	114T-1	*	118 12
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
* CARROLL & OGLE			

REFERENCE TIES

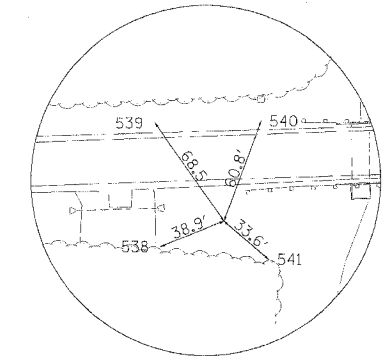
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
530	1999189.9380	2413929.7510	893.8223	IL 72	243+97.54	17.8891 RT	IRON PIN W/CAP
531	1999225.4530	2413930.2010	893.4395	IL 72	243+99.00	17.5984 LT	IRON PIN W/CAP
532	1999246.3400	2414062.4740	893.1711	IL 72	245+31.81	34.7307 LT	IRON PIN W/CAP
533	1999181.5320	2414067.2860	892.5348	IL 72	245+34.79	30.1872 RT	IRON PIN W/CAP
534	1999263.1250	2414614.8780	912.9250	IL 72	250+84.46	35.9947 LT	IRON PIN W/CAP
535	1999260.1290	2414695.8280	914.8715	IL 72	251+65.29	30.7367 LT	IRON PIN W/CAP
536	1999208.8760	2414697.3660	914.2085	IL 72	251+65.40	20.5386 RT	IRON PIN W/CAP
537	1999208.6700	2414640.3210	912.7672	IL 72	251+08.37	19.1507 RT	IRON PIN W/CAP
538	1999356.5030	2420794.2730	912.5930	IL 72	312+63.90	49.4823 RT	IRON PIN W/CAP
539	1999427.0210	2420791.1010	913.7303	IL 72	312+62.92	21.1003 LT	IRON PIN W/CAP
540	1999427.8690	2420851.8150	913.1640	IL 72	313+23.63	20.0553 LT	IRON PIN W/CAP
541	1999349.0320	2420855.9280	911.7761	IL 72	313+25.29	58.8720 RT	IRON PIN W/CAP
542	1999396.4870	2421825.1750	912.4423	IL 72	322+95.54	41.6587 RT	IRON PIN W/CAP
543	1999468.2190	2421797.4470	913.6739	IL 72	322+70.07	30.9025 LT	IRON PIN W/CAP
544	1999469.7840	2421872.1510	914.4711	IL 72	323+44.78	30.1381 LT	IRON PIN W/CAP
545	1999398.2790	2421874.0380	913.3860	IL 72	323+44.44	41.3913 RT	IRON PIN W/CAP
546	1999799.1100	2436722.6500	902.6671	IL 72	101+88.16	30.3676 RT	IRON PIN W/CAP
547	1999862.1590	2436732.9440	901.4961	IL 72	101+99.73	32.4585 LT	IRON PIN W/CAP
548	1999862.9010	2436807.1600	901.0803	IL 72	102+73.95	31.6918 LT	IRON PIN W/CAP
549	1999796.8270	2436804.5150	901.2736	IL 72	102+69.96	34.3148 RT	IRON PIN W/CAP
550	1999848.4000	2438568.9300	904.3858	IL 72	120+35.06	18.6309 RT	IRON PIN W/CAP
551	1999899.3970	2438567.4280	902.6338	IL 72	120+34.60	32.3854 LT	IRON PIN W/CAP
552	1999892.9750	2438638.1320	904.6590	IL 72	121+05.16	24.5272 LT	IRON PIN W/CAP
553	1999848.6700	2438632.9310	904.2066	IL 72	120+99.05	19.6630 RT	IRON PIN W/CAP
554	1999857.6560	2439912.0070	917.6568	IL 72	133+78.05	36.6884 RT	IRON PIN W/CAP
555	1999939.7470	2439944.5870	918.2564	IL 72	134+12.29	44.7237 LT	IRON PIN W/CAP
556	1999863.5960	2439977.4930	918.6190	IL 72	134+43.64	32.0811 RT	IRON PIN W/CAP
557	1999839.9950	2439949.9010	918.8849	IL 72	134+15.58	55.1154 RT	IRON PIN W/CAP
558	1999887.9090	2441165.6040	917.1095	IL 72	146+32.00	31.9322 RT	IRON PIN W/CAP
559	1999950.3750	2441164.5220	917.6773	IL 72	146+32.19	30.5430 LT	IRON PIN W/CAP
560	1999948.0200	2441225.2300	920.0126	IL 72	146+92.84	26.9540 LT	IRON PIN W/CAP
561	1999894.9470	2441235.2520	919.5607	IL 72	147+01.78	26.3122 RT	IRON PIN W/CAP
566	1999697.8230	2431598.6910	958.5739	IL 72	50+62.99	20.4965 RT	IRON PIN W/CAP
567	1999752.4010	2431596.5910	960.3937	IL 72	50+62.50	34.1191 LT	IRON PIN W/CAP
568	1999754.0910	2431646.8690	961.0419	IL 72	51+12.81	34.3210 LT	IRON PIN W/CAP
569	1999699.5060	2431648.5960	958.9847	IL 72	51+12.92	20.2920 RT	IRON PIN W/CAP



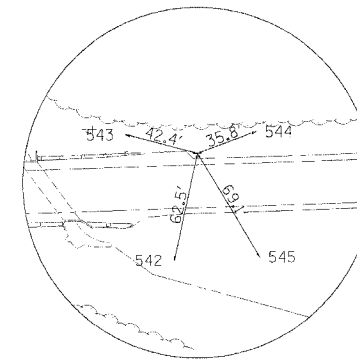
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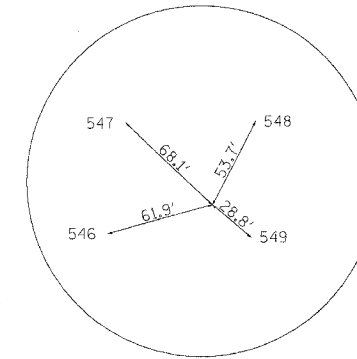
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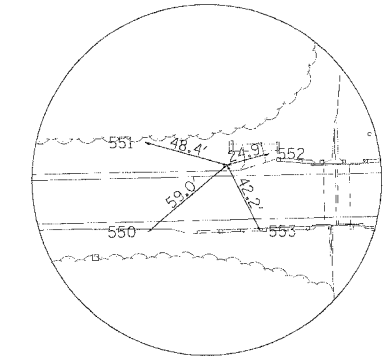
HORIZONTAL CONTROL POINT No. 3



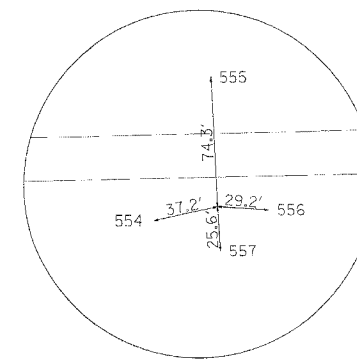
HORIZONTAL CONTROL POINT No. 4



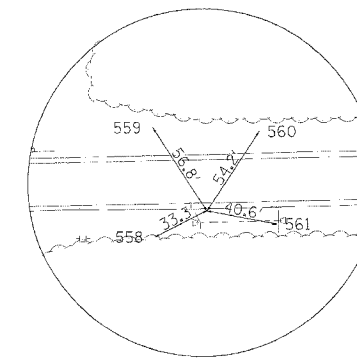
HORIZONTAL CONTROL POINT No. 5



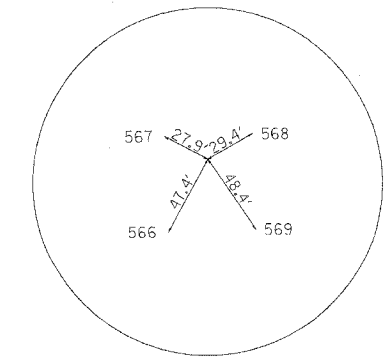
HORIZONTAL CONTROL POINT No. 6



HORIZONTAL CONTROL POINT No. 7



HORIZONTAL CONTROL POINT No. 8



HORIZONTAL CONTROL POINT No. 9

HORIZONTAL CONTROL POINTS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	1999195.5130	2414021.1770	894.7152	IL 72	244+89.09	14.9076 RT	TRAVERSE STATION
2	1999258.5000	2414659.6440	913.7720	IL 72	251+29.08	30.1200 LT	TRAVERSE STATION
3	1999370.8510	2420830.3870	911.9168	IL 72	313+00.44	36.2671 RT	TRAVERSE STATION
4	1999457.5570	2421838.5120	914.7505	IL 72	323+10.78	18.9658 LT	TRAVERSE STATION
5	1999815.2700	2436782.3490	905.1659	IL 72	102+48.18	15.4251 RT	TRAVERSE STATION
6	1999886.4520	2438614.0140	904.6133	IL 72	120+80.91	18.4962 LT	TRAVERSE STATION
7	1999865.5370	2439948.3200	918.6595	IL 72	134+14.51	29.5469 RT	TRAVERSE STATION
8	1999902.7010	2441195.4020	919.5732	IL 72	146+62.09	17.7494 RT	TRAVERSE STATION
9	1999739.5068	2431621.3081	958.6429	IL 72	50+86.83	20.4993 LT	TRAVERSE STATION

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1		118	13
STA. 236+50.00		TO STA. 251+50.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
• CARROLL & OGLE				



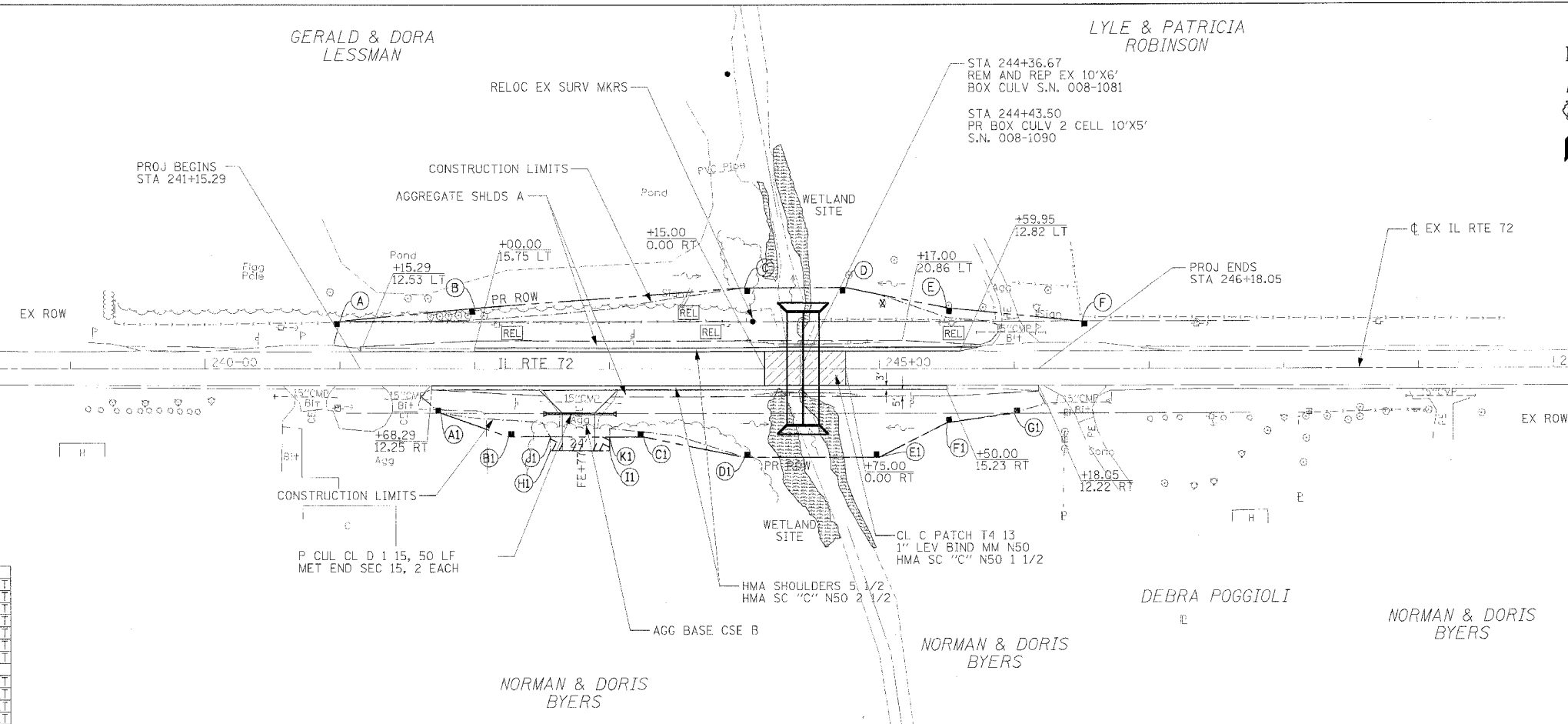
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DATE	
BY	
CHECKED	
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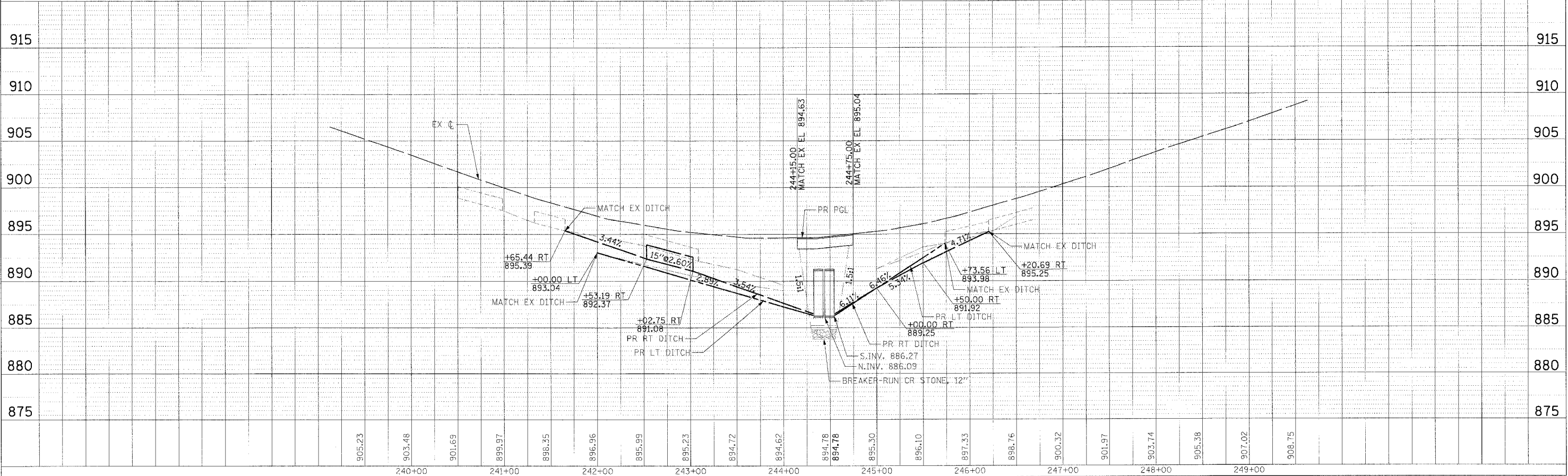
**ROW TABLE**

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A 241+00.00	35.28 LT	A1 241+75.00	32.77 RT
B 242+00.00	45.00 LT	B1 242+25.00	50.00 RT
C 244+00.00	60.00 LT	C1 243+25.00	50.00 RT
D 244+75.00	60.00 LT	D1 244+00.00	65.00 RT
E 245+50.00	45.00 LT	E1 245+00.00	65.00 RT
F 246+50.00	35.04 LT	F1 245+50.00	40.00 RT
		G1 246+00.00	32.95 RT
<b>TEMPORARY EASEMENTS</b>			
H1	242+56.00	60.00 RT	
I1	243+00.00	60.00 RT	
J1	242+56.00	50.00 RT	
K1	243+00.00	50.00 RT	



**LEGEND**

- PVMT REM
- RELOCATED BY OTHERS
- PR DITCH FL
- EX DITCH FL
- TREE REM
- CONSTRUCTION LIMITS
- PR TEMP EASEMENT



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1		118	14
STA. 304+50.00		TO STA. 319+50.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
• CARROLL & OGLE				

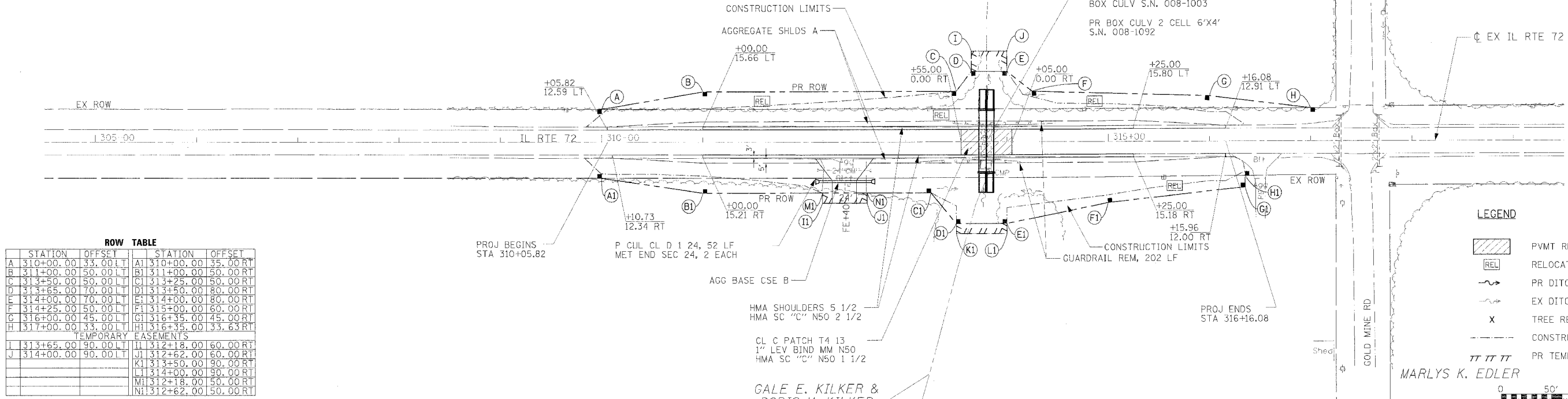
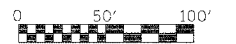
OMAR C. WILHELMS,  
DELORES J. MEINERS &  
LILLIAN L. WILHELMS

CAROL BOTTIMER,  
TRUSTEE

LEGEND

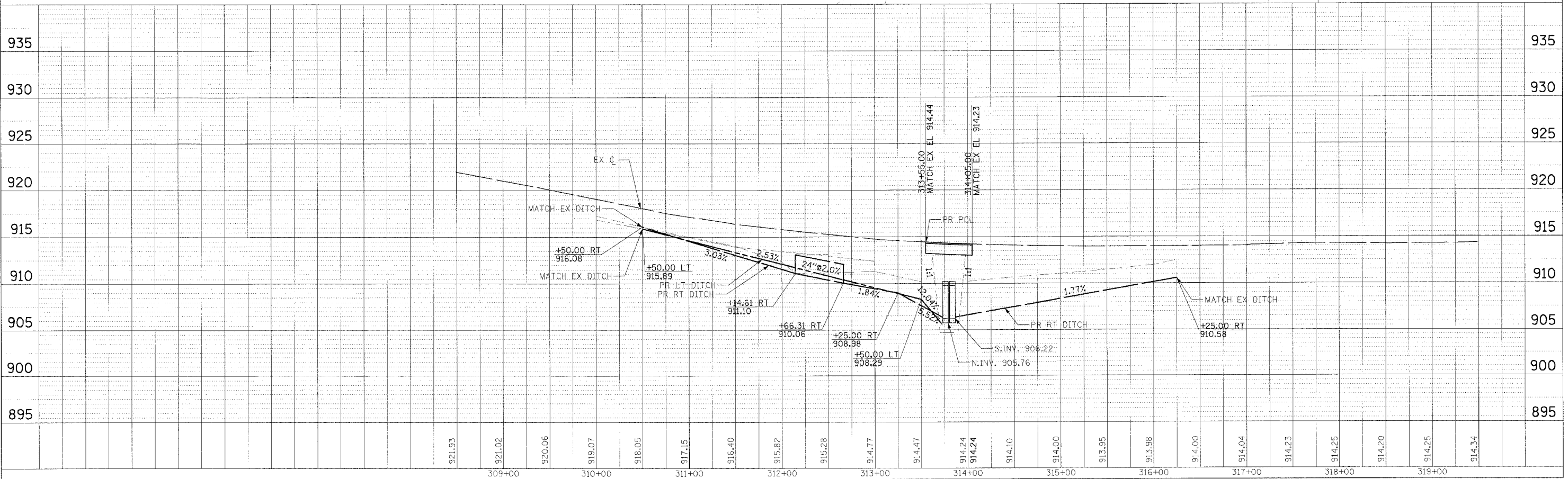
- PVMT REM
- RELOCATED BY OTHERS
- PR DITCH FL
- EX DITCH FL
- TREE REM
- CONSTRUCTION LIMITS
- PR TEMP EASEMENT

MARLYS K. EDLER



ROW TABLE

STATION	OFFSET	STATION	OFFSET
A 310+00.00	33.00 LT	A1 310+00.00	35.00 RT
B 311+00.00	50.00 LT	B1 311+00.00	50.00 RT
C 313+50.00	50.00 LT	C1 313+25.00	50.00 RT
D 313+65.00	70.00 LT	D1 313+50.00	80.00 RT
E 314+00.00	70.00 LT	E1 314+00.00	80.00 RT
F 314+25.00	50.00 LT	F1 315+00.00	60.00 RT
G 316+00.00	45.00 LT	G1 316+35.00	45.00 RT
H 317+00.00	33.00 LT	H1 316+35.00	33.63 RT
TEMPORARY EASEMENTS			
I 313+65.00	90.00 LT	I1 312+18.00	60.00 RT
J 314+00.00	90.00 LT	J1 312+62.00	60.00 RT
		K1 313+50.00	90.00 RT
		L1 314+00.00	90.00 RT
		M1 312+18.00	50.00 RT
		N1 312+62.00	50.00 RT



DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
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 CHECKED: \_\_\_\_\_  
 DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1		118	15
STA. 314+50.00		TO STA. 329+50.00		
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT
• CARROLL & OGLE				



OMAR C. WILHELMS,  
DELORES J. WEINERS &  
LILLIAN L. WILHELMS

CAROL L. BOTTIMER,  
TRUSTEE

GALE E. KILKER &  
DORIS M. KILKER

MARLYS K. EDLER

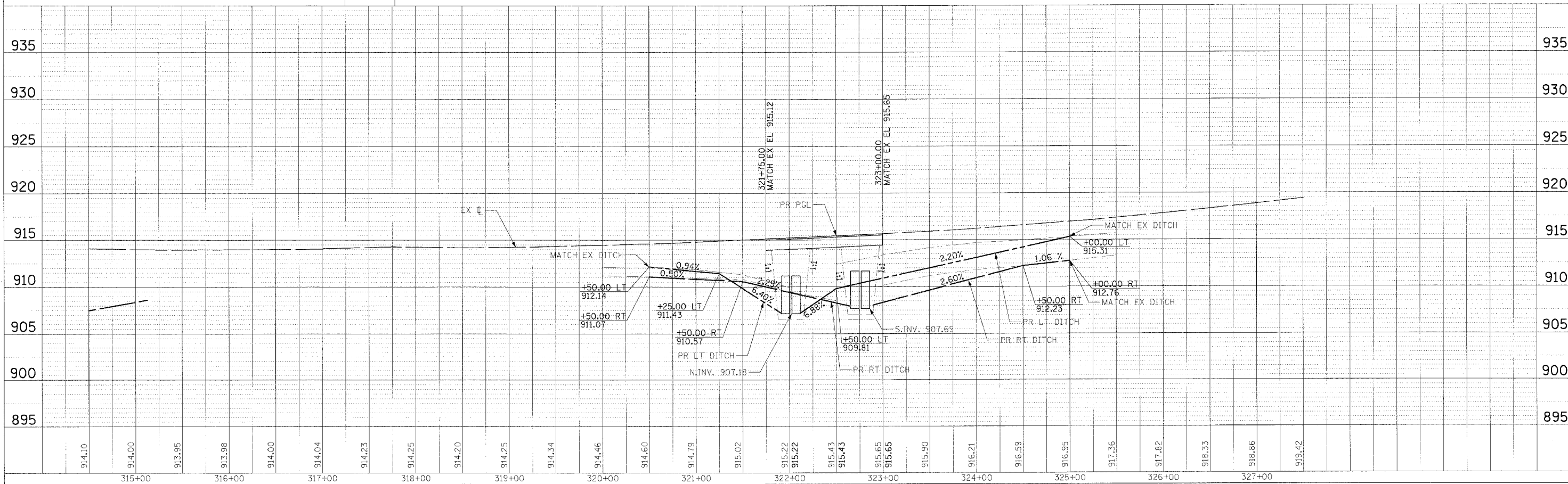
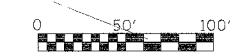
STATION	OFFSET	STATION	OFFSET
A 321+00.00	35.00 LT	A1 321+00.00	45.00 RT
B 321+75.00	65.00 LT	B1 322+00.00	70.00 RT
C 322+25.00	85.00 LT	C1 322+75.00	70.00 RT
D 322+50.00	80.00 LT	D1 324+00.00	55.00 RT
E 324+00.00	50.00 LT	E1 324+38.98	43.00 RT
F 325+00.00	35.00 LT		

G 321+40.00	51.00 LT		
H 321+40.00	125.00 LT		
I 321+75.00	125.00 LT		

**LEGEND**

- PVMT REM
- RELOCATED BY OTHERS
- PR DITCH FL
- EX DITCH FL
- TREE REM
- CONSTRUCTION LIMITS
- PR TEMP EASEMENT



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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1	*	118	16
STA. 30+50.00		TO STA. 45+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* CARROLL & OGLE				

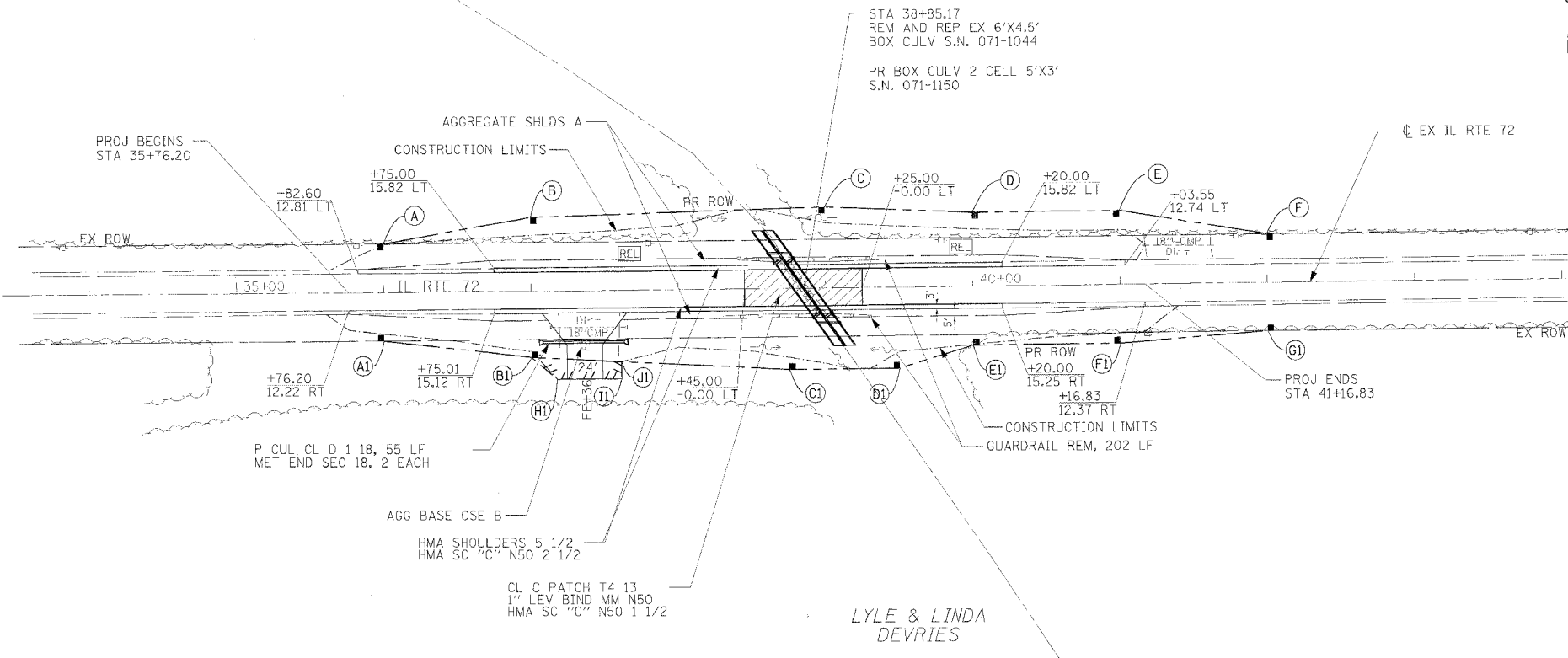


LAWRENCE E. WOESSNER &  
NORMA R. WOESSNER

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DATE  
BY  
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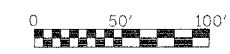
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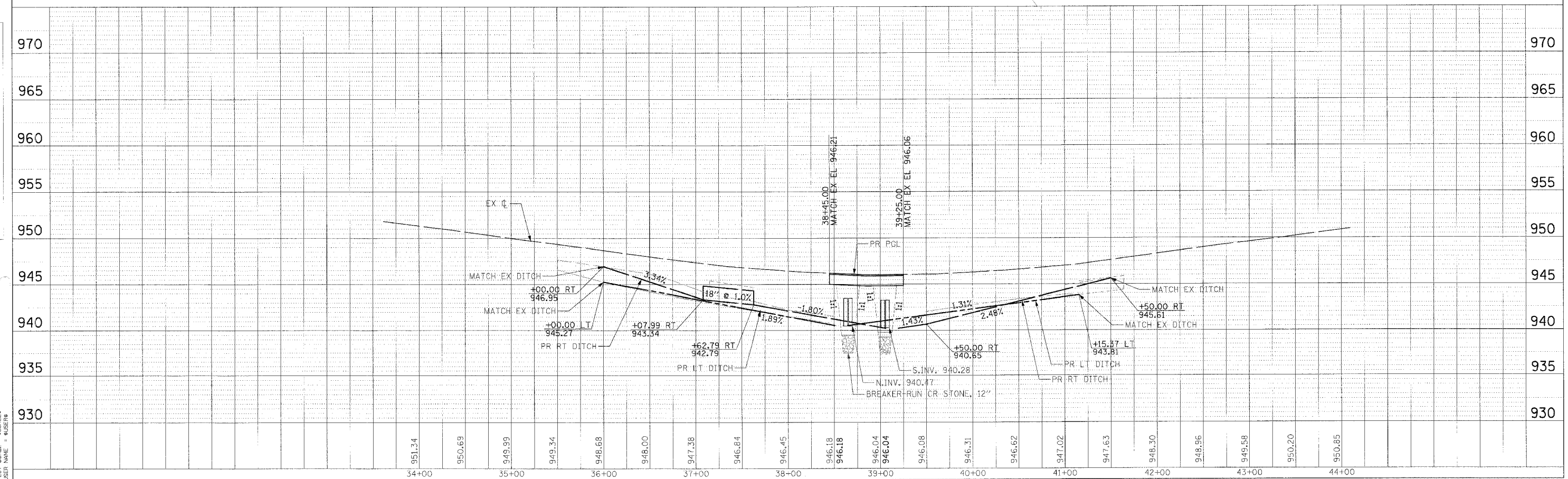
**LEGEND**

- PVMT REM
- RELOCATED BY OTHERS
- PR DITCH FL
- EX DITCH FL
- TREE REM
- CONSTRUCTION LIMITS
- PR TEMP EASEMENT



**ROW TABLE**

STATION	OFFSET	STATION	OFFSET
A 36+00.00	33.00 LT	A1 36+00.00	33.00 RT
B 37+00.00	50.00 LT	B1 37+00.00	45.00 RT
C 39+00.00	55.00 LT	C1 38+75.00	55.00 RT
D 40+00.00	50.00 LT	D1 39+50.00	55.00 RT
E 41+00.00	50.00 LT	E1 40+00.00	40.00 RT
F 42+00.00	33.00 LT	F1 41+00.00	40.00 RT
		G1 42+00.00	33.00 RT
<b>TEMPORARY EASEMENTS</b>			
		H1 37+17.00	60.00 RT
		I1 37+61.00	60.00 RT
		J1 37+61.00	48.49 RT

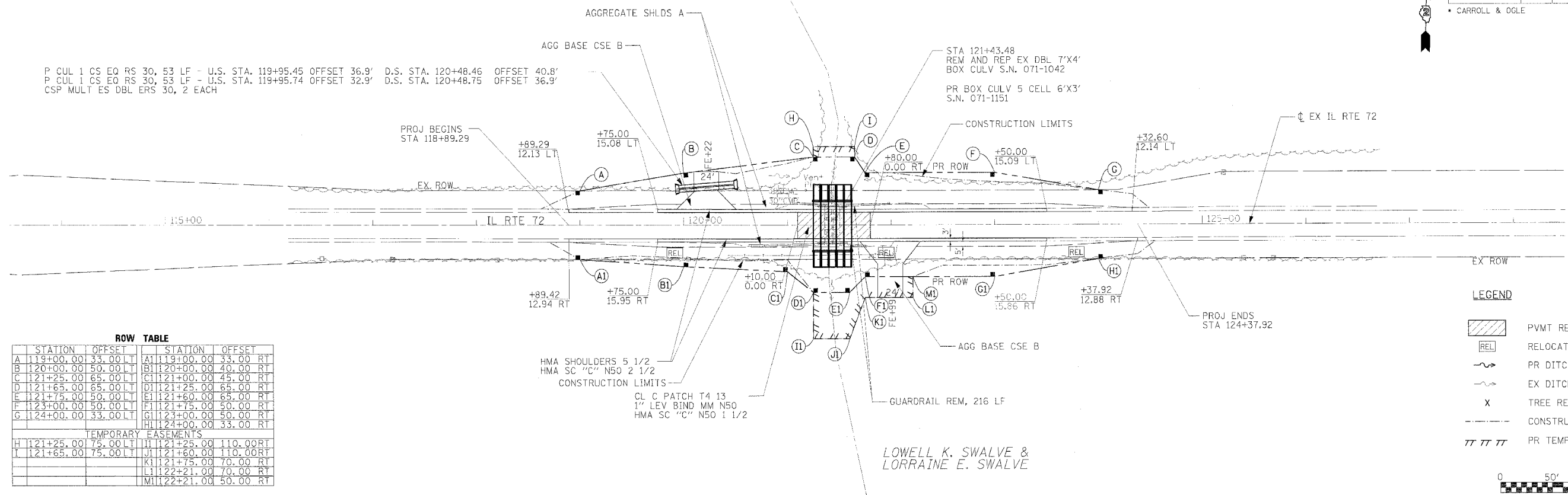




F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1		118	17
STA. 113+50.00		TO STA. 128+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• CARROLL & OGLE				



P CUL 1 CS EQ RS 30, 53 LF - U.S. STA. 119+95.45 OFFSET 36.9' D.S. STA. 120+48.46 OFFSET 40.8'  
 P CUL 1 CS EQ RS 30, 53 LF - U.S. STA. 119+95.74 OFFSET 32.9' D.S. STA. 120+48.75 OFFSET 36.9'  
 CSP MULT ES DBL ERS 30, 2 EACH

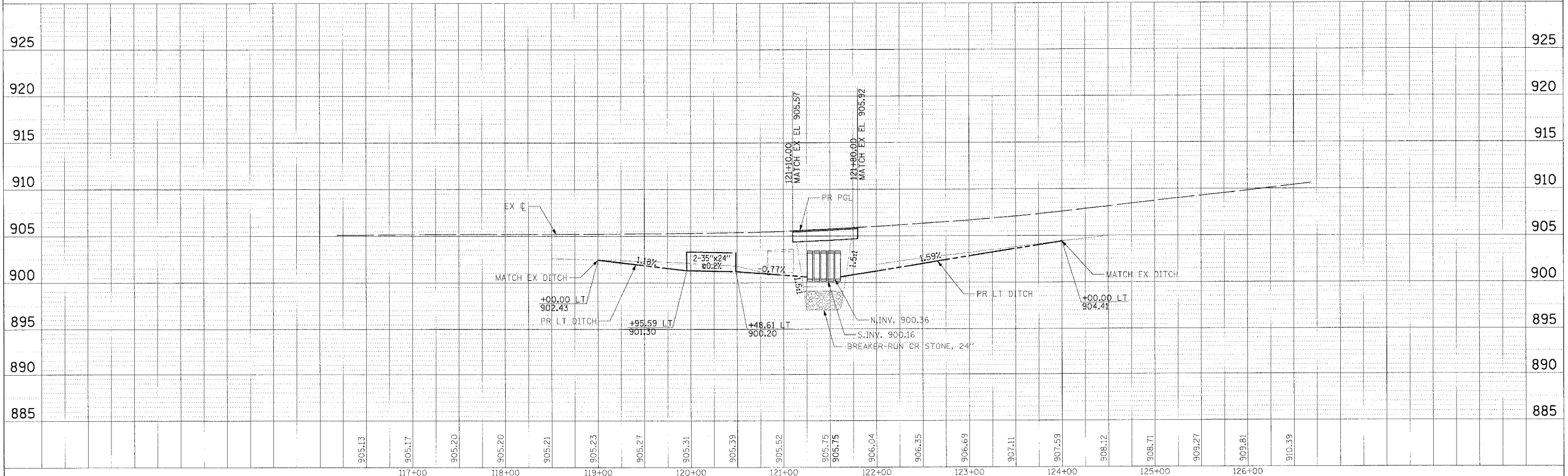


**ROW TABLE**

STATION	OFFSET	STATION	OFFSET
A	119+00.00 33.00 LT	A1	119+00.00 33.00 RT
B	120+00.00 50.00 LT	B1	120+00.00 40.00 RT
C	121+25.00 65.00 LT	C1	121+00.00 45.00 RT
D	121+65.00 65.00 LT	D1	121+25.00 65.00 RT
E	121+75.00 50.00 LT	E1	121+60.00 65.00 RT
F	123+00.00 50.00 LT	F1	121+75.00 50.00 RT
G	124+00.00 33.00 LT	G1	123+00.00 50.00 RT
		H1	124+00.00 33.00 RT
TEMPORARY EASEMENTS			
H	121+25.00 75.00 LT	I1	121+25.00 110.00 RT
I	121+65.00 75.00 LT	J1	121+60.00 110.00 RT
		K1	121+75.00 70.00 RT
		L1	122+21.00 70.00 RT
		M1	122+21.00 50.00 RT

**LEGEND**

- PVMT REM
- RELOCATED BY OTHERS
- PR DITCH FL
- EX DITCH FL
- TREE REM
- CONSTRUCTION LIMITS
- PR TEMP EASEMENT



DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 DESIGNED: \_\_\_\_\_  
 DRAWN: \_\_\_\_\_  
 PLOT SCALE: \_\_\_\_\_

PHOTO: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 PLOT SCALE: \_\_\_\_\_  
 USER: \_\_\_\_\_

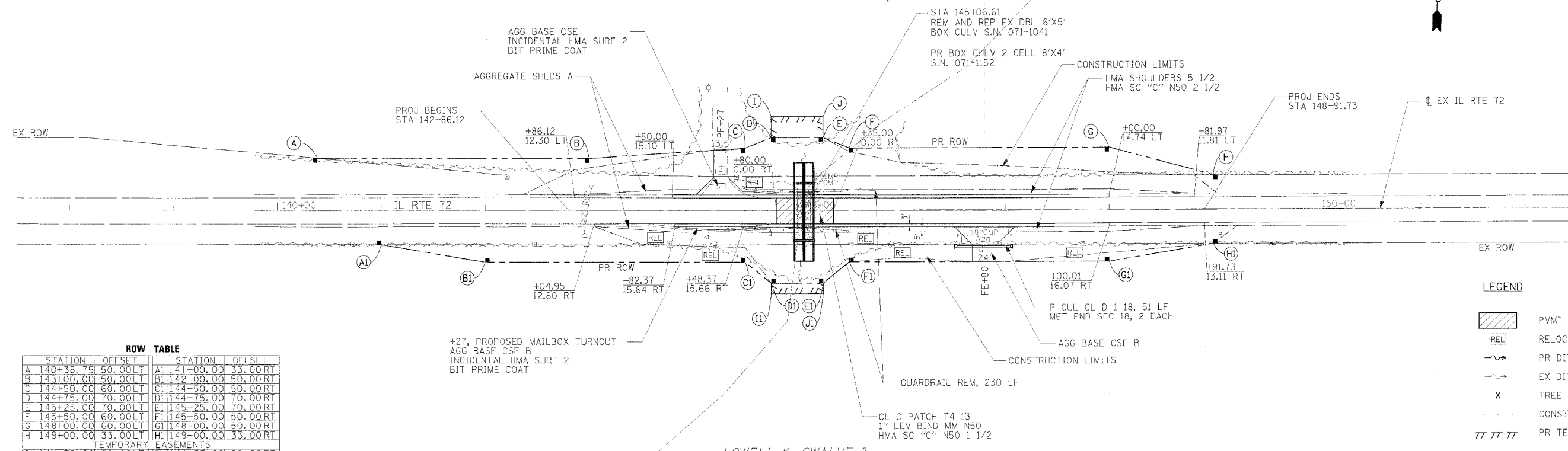
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CRAIG W. GREENFIELD, ET AL

DEAN E. WOLF & LAVONNE M. WOLF



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	1141-1	*	118	18
STA. 137+50.00 TO STA. 152+50.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
* CARROLL & OGLE				

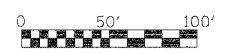


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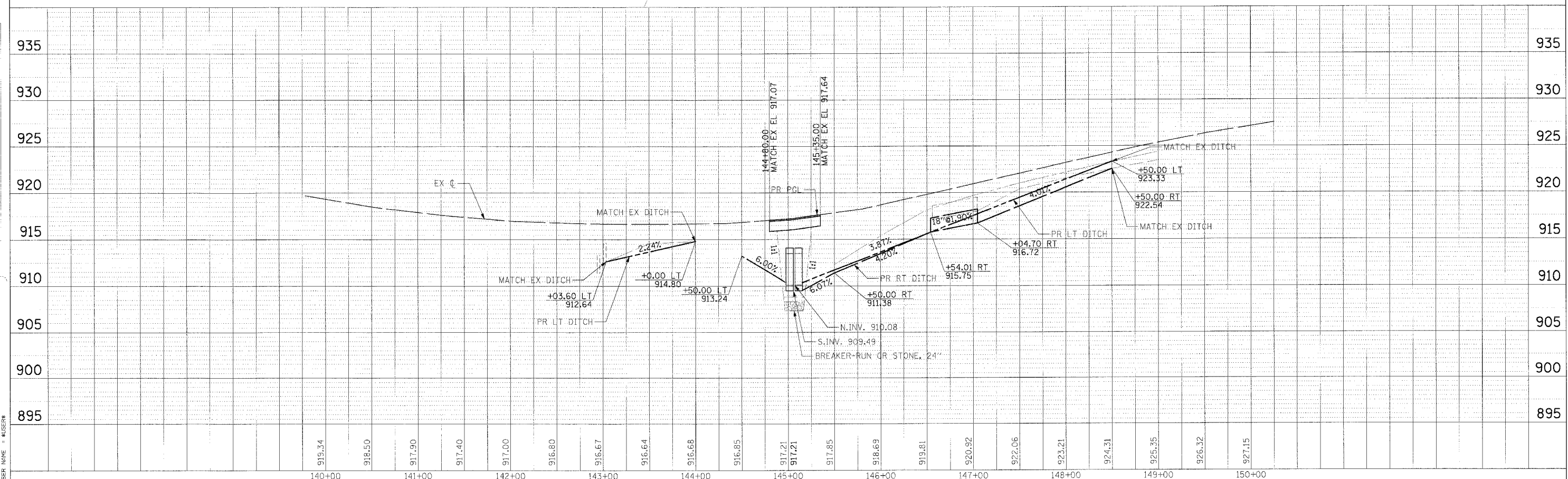
STATION	OFFSET	STATION	OFFSET
A	140+38.75 50.00LT	A1	141+00.00 33.00RT
B	143+00.00 50.00LT	B1	142+00.00 50.00RT
C	144+50.00 60.00LT	C1	144+50.00 50.00RT
D	144+75.00 70.00LT	D1	144+75.00 70.00RT
E	145+25.00 70.00LT	E1	145+25.00 70.00RT
F	145+50.00 60.00LT	F1	145+50.00 50.00RT
G	148+00.00 60.00LT	G1	148+00.00 50.00RT
H	149+00.00 33.00LT	H1	149+00.00 33.00RT
TEMPORARY EASEMENTS			
I	144+75.00 90.00LT	I1	144+75.00 80.00RT
J	145+25.00 90.00LT	J1	145+25.00 80.00RT

**LEGEND**

- PVMT REM
- RELOCATED BY OTHERS
- PR DITCH FL
- EX DITCH FL
- TREE REM
- CONSTRUCTION LIMITS
- PR TEMP EASEMENT



LOWELL K. SWALVE & LORRAINE E. SWALVE



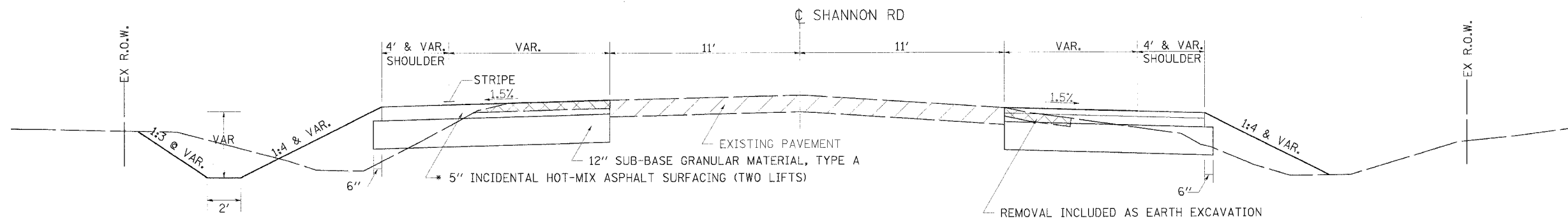
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BY: \_\_\_\_\_  
CHECKED: \_\_\_\_\_  
DATE: \_\_\_\_\_


DATE: \_\_\_\_\_  
BY: \_\_\_\_\_  
CHECKED: \_\_\_\_\_  
DATE: \_\_\_\_\_

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# DETOUR TYPICAL SECTION

F.A. DIST. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	1141-1		118	19
STA.	TO STA.			
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* OGLE/CARROLL COUNTY				




 REMOVAL  
 \* 112 lb/sq yd/1in

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.  
HORIZ.  
DATE

DRAWN BY  
CHECKED BY

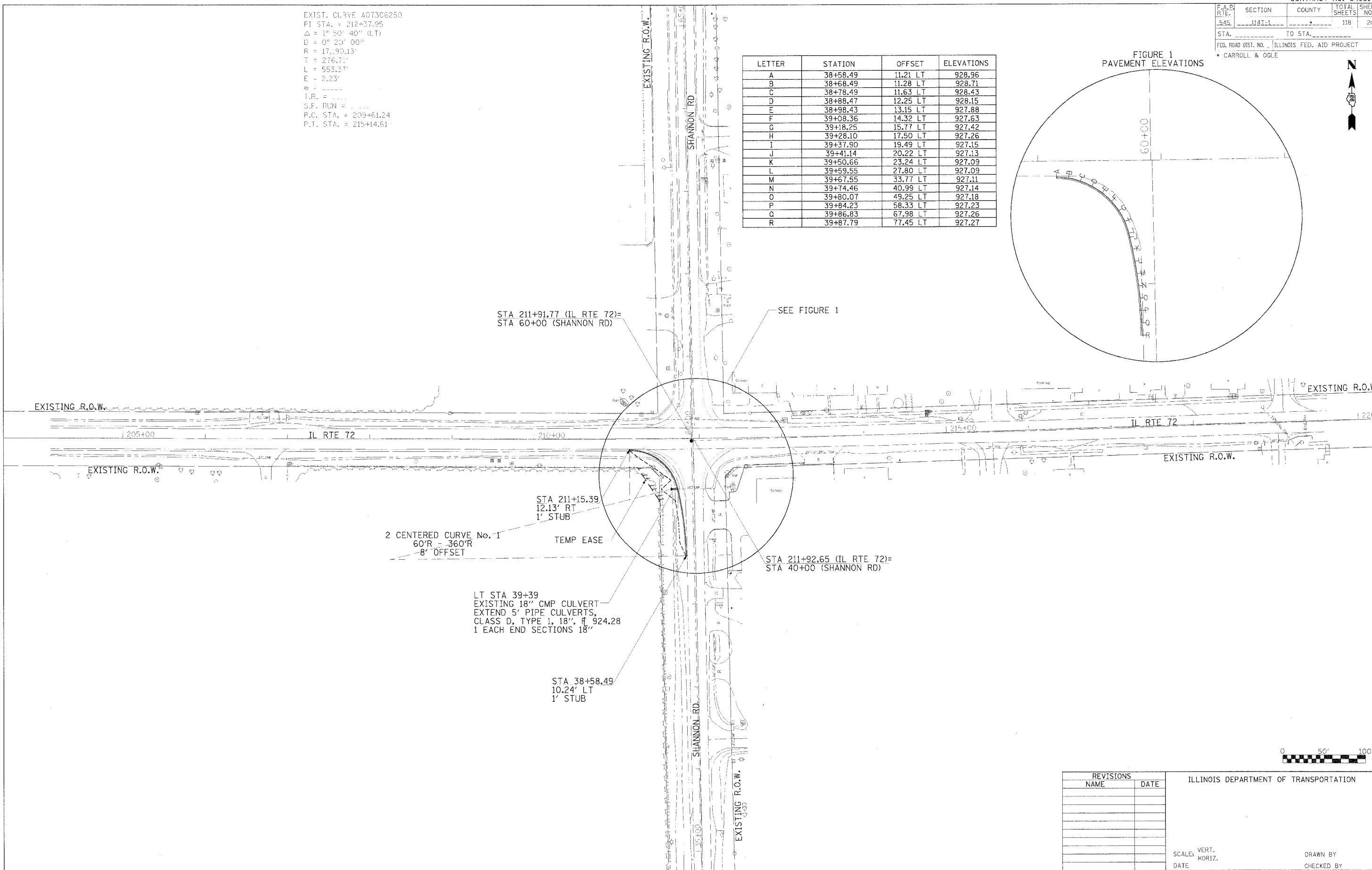
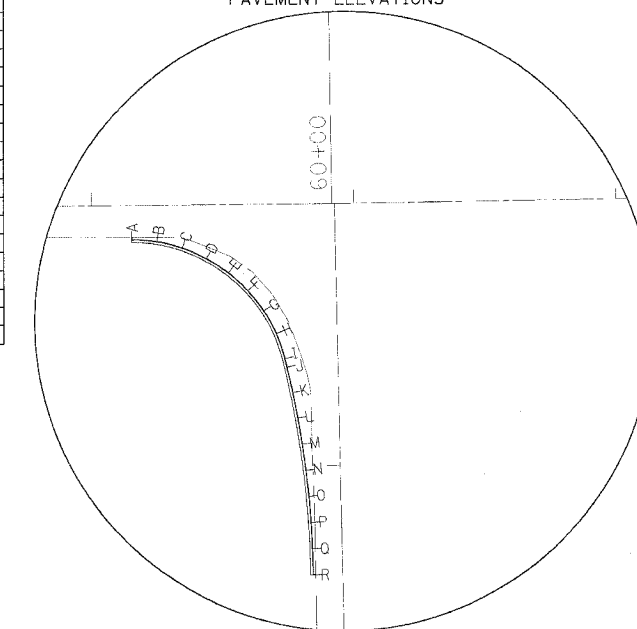
## DETOUR TYPICAL SECTION

F.A.B. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	141-1		118	20
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* CARROLL & OGLE				

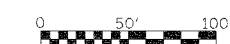
EXIST. CURVE A07306250  
 PI STA. = 212+37.95  
 $\Delta = 1^\circ 50' 40''$  (LT)  
 $D = 0^\circ 20' 00''$   
 $R = 17,90.13'$   
 $T = 276.71'$   
 $L = 553.37'$   
 $E = 2.23'$   
 $e =$   
 $I.R. =$   
 $S.F. RUN =$   
 P.C. STA. = 209+61.24  
 P.T. STA. = 215+14.61

LETTER	STATION	OFFSET	ELEVATIONS
A	38+58.49	11.21 LT	928.96
B	38+68.49	11.28 LT	928.71
C	38+78.49	11.63 LT	928.43
D	38+88.47	12.25 LT	928.15
E	38+98.43	13.15 LT	927.88
F	39+08.36	14.32 LT	927.63
G	39+18.25	15.77 LT	927.42
H	39+28.10	17.50 LT	927.26
I	39+37.90	19.49 LT	927.15
J	39+41.14	20.22 LT	927.13
K	39+50.66	23.24 LT	927.09
L	39+59.55	27.80 LT	927.09
M	39+67.55	33.77 LT	927.11
N	39+74.46	40.99 LT	927.14
O	39+80.07	49.25 LT	927.18
P	39+84.23	58.33 LT	927.23
Q	39+86.83	67.98 LT	927.26
R	39+87.79	77.45 LT	927.27

FIGURE 1  
PAVEMENT ELEVATIONS



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 USER NAME = DLZ



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

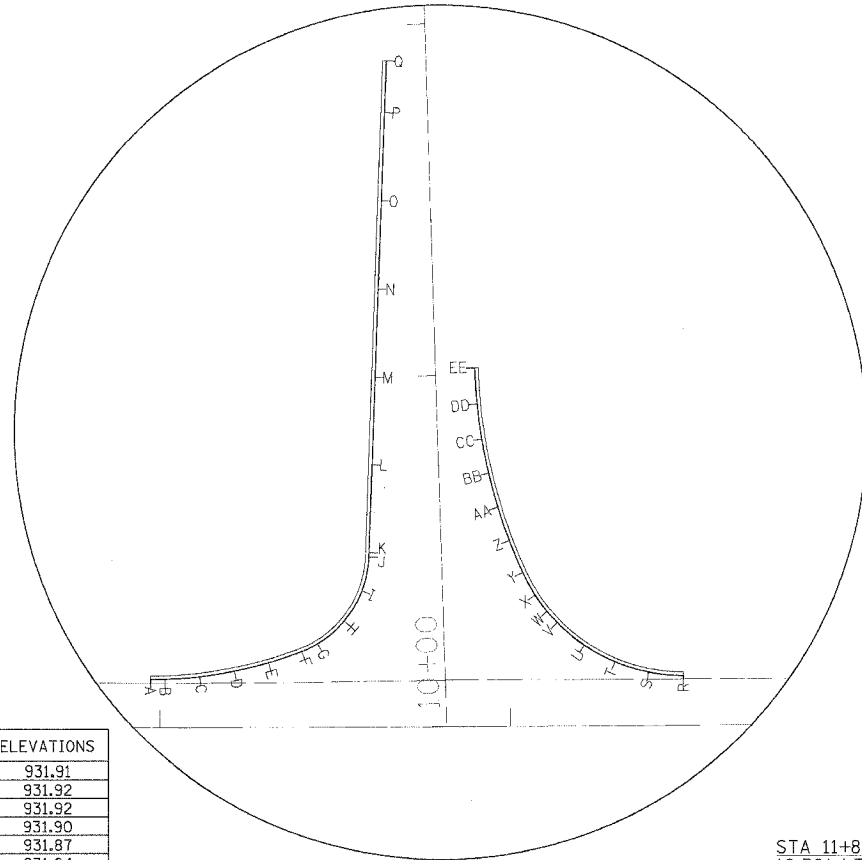
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 HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

**SHANNON RD/IL RTE 72**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	141-1		118	21
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* CARROLL & OGLE				

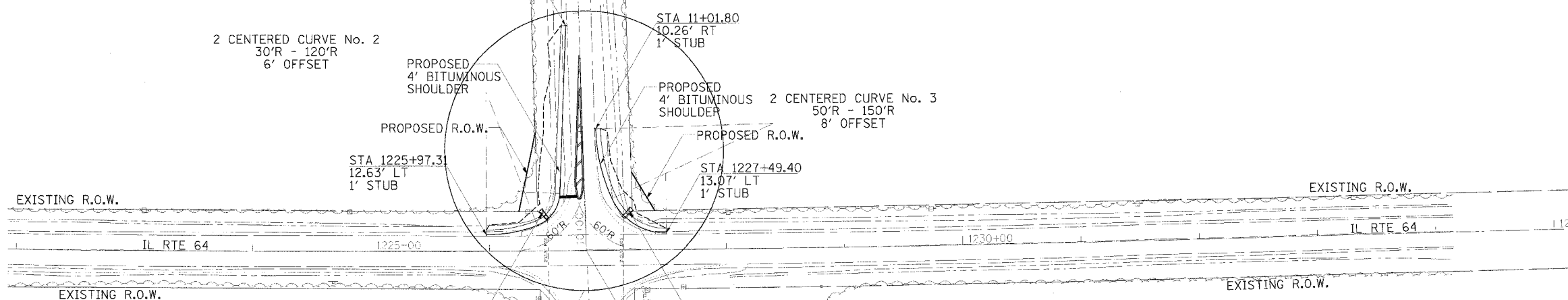
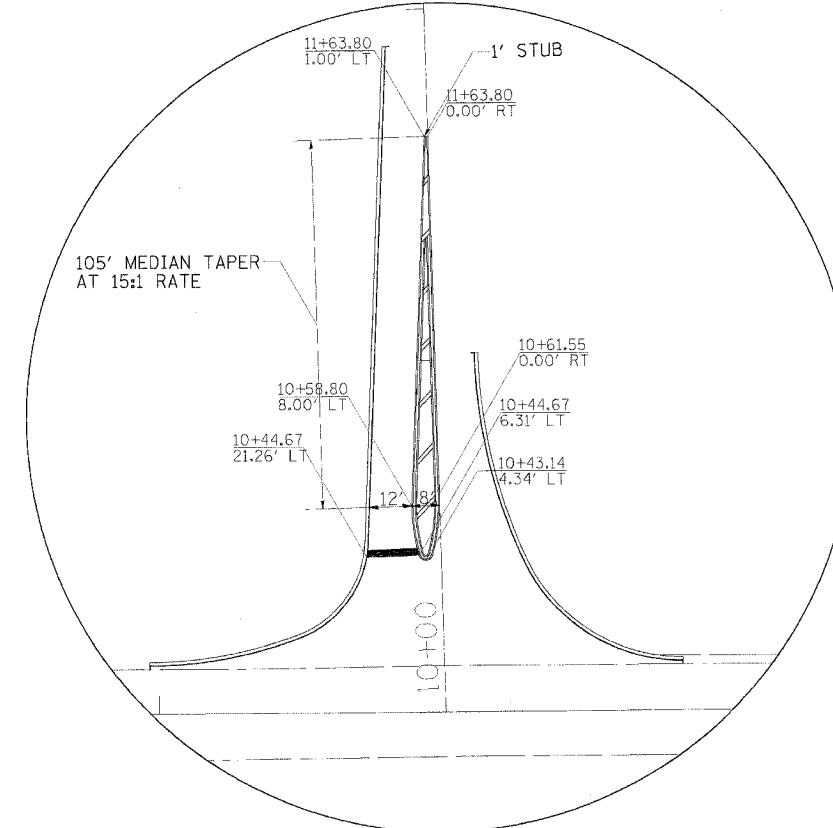
FIGURE 1  
PAVEMENT ELEVATIONS



LETTER	STATION	OFFSET	ELEVATIONS
A	10+15.81	84.02 LT	931.91
B	10+15.76	79.96 LT	931.92
C	10+16.21	69.97 LT	931.92
D	10+17.49	60.05 LT	931.90
E	10+19.59	50.28 LT	931.87
F	10+22.49	40.72 LT	931.84
G	10+24.54	36.13 LT	931.83
H	10+30.73	28.34 LT	931.83
I	10+39.13	22.99 LT	931.96
J	10+48.81	20.69 LT	932.10
K	10+50.00	20.61 LT	932.10
L	10+75.00	18.95 LT	931.96
M	11+00.00	17.28 LT	931.95
N	11+25.00	15.61 LT	932.00
O	11+50.00	13.95 LT	932.06
P	11+75.00	12.28 LT	932.26
Q	11+89.90	11.30 LT	932.43
R	10+12.51	67.94 RT	932.50
S	10+13.75	58.03 RT	932.40
T	10+16.93	48.57 RT	932.24
U	10+21.94	39.93 RT	932.08
V	10+28.55	32.46 RT	931.96
W	10+30.21	31.00 RT	931.95
X	10+36.53	26.45 RT	931.92
Y	10+42.99	23.14 RT	931.90
Z	10+52.32	19.55 RT	931.89
AA	10+61.87	16.59 RT	931.89
BB	10+71.59	14.27 RT	931.91
CC	10+81.45	12.60 RT	931.94
DD	10+91.40	11.60 RT	931.98
EE	11+01.80	11.26 RT	932.03

EXIST. CURVE 250  
 P.I. STA. = 1226+80.85  
 $\Delta = 2^\circ 2' 38''$  (L)  
 $D = 0^\circ 12' 18''$   
 $R = 27,968.13'$   
 $T = 584.31'$   
 $L = 1,168.44'$   
 $E = 6.10'$   
 $C =$   
 $T.R. =$   
 $S.E. R.C.N. =$   
 P.C. STA. = 1220+96.54  
 P.T. STA. = 1232+64.98

FIGURE 2  
PAVEMENT MARKING DETAILS  
SEE DISTRICT STANDARD 41.1

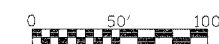


LT STA 1226+50  
 EXISTING RC BOX CULVERT 2'X1.5'  
 CONCRETE HEADWALL REMOVAL 1 EACH  
 EXTEND BOX CULVERT USING 3' PIPE CULVERTS  
 TYPE 1, REINFORCED CONCRETE, ELLIPTICAL  
 EQUIVALENT ROUND SIZE 24", R 929.82  
 1 EACH PRC FLARED END SECTIONS, ELLIPTICAL  
 EQUIVALENT ROUND SIZE 24"

LT STA 1227+13  
 EXISTING RC BOX CULVERT 2'X1.5'  
 CONCRETE HEADWALL REMOVAL 1 EACH  
 EXTEND BOX CULVERT USING 4' PIPE CULVERTS  
 TYPE 1, REINFORCED CONCRETE, ELLIPTICAL  
 EQUIVALENT ROUND SIZE 24", R 929.92  
 1 EACH PRC FLARED END SECTIONS, ELLIPTICAL  
 EQUIVALENT ROUND SIZE 24"

STA 1226+81.77 (IL RTE 64)  
 STA 10+00 (SHANNON RD)

SEE FIGURES 1 & 2



REVISIONS	
NAME	DATE

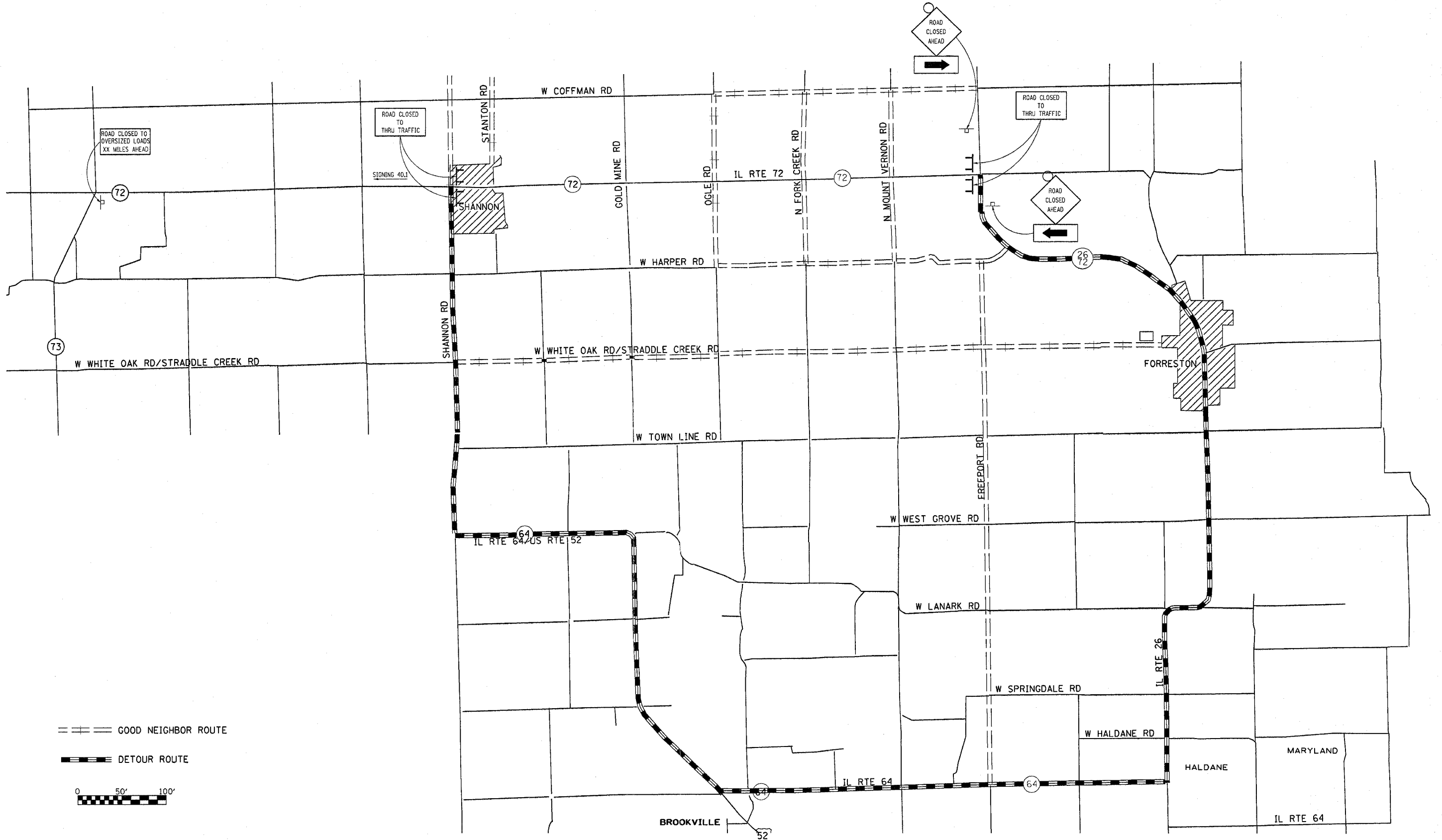
ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.  
 HORIZ.  
 DATE  
 DRAWN BY  
 CHECKED BY

SHANNON RD/IL RTE 64

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	1191:1		118	22
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
• CARROLL & OGLE				

# DETOUR ROUTE

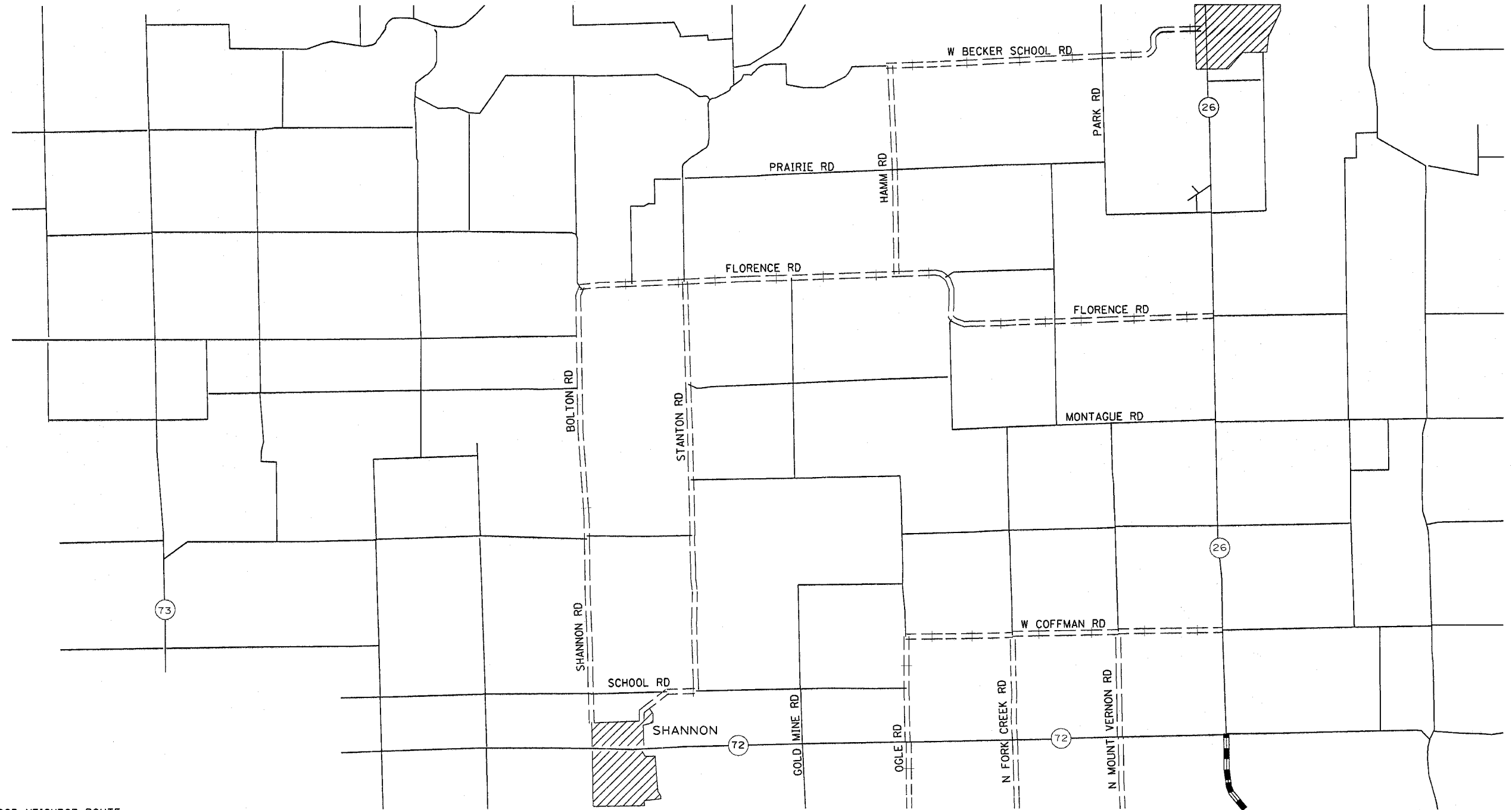


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# DETOUR ROUTE

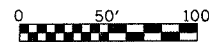
CONTRACT NO. 64C31

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1		118	220
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		
• CARROLL & OGLE				



==+==+== GOOD NEIGHBOR ROUTE

==+==+== DETOUR ROUTE



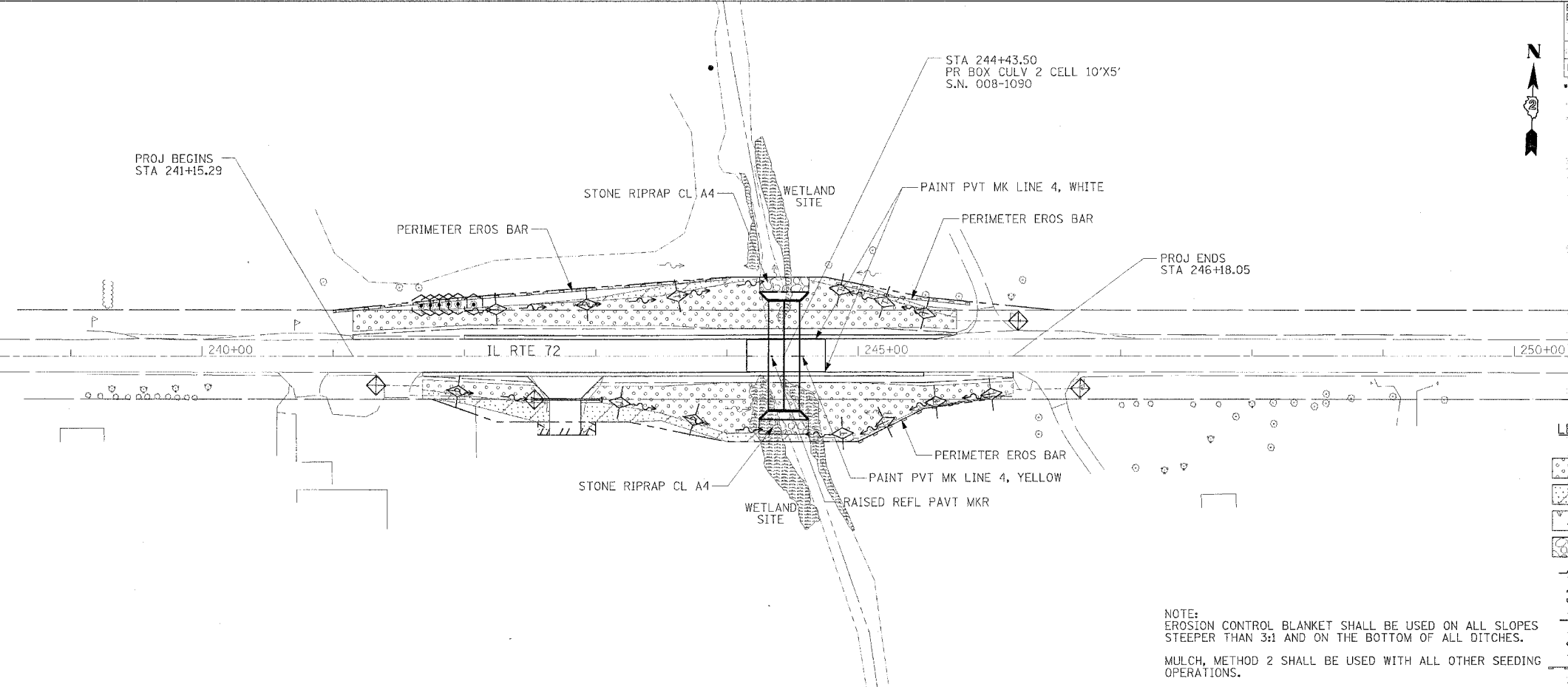
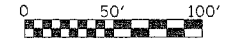
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DETOUR ROUTE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1	*	118	23

STA.	TO STA.
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

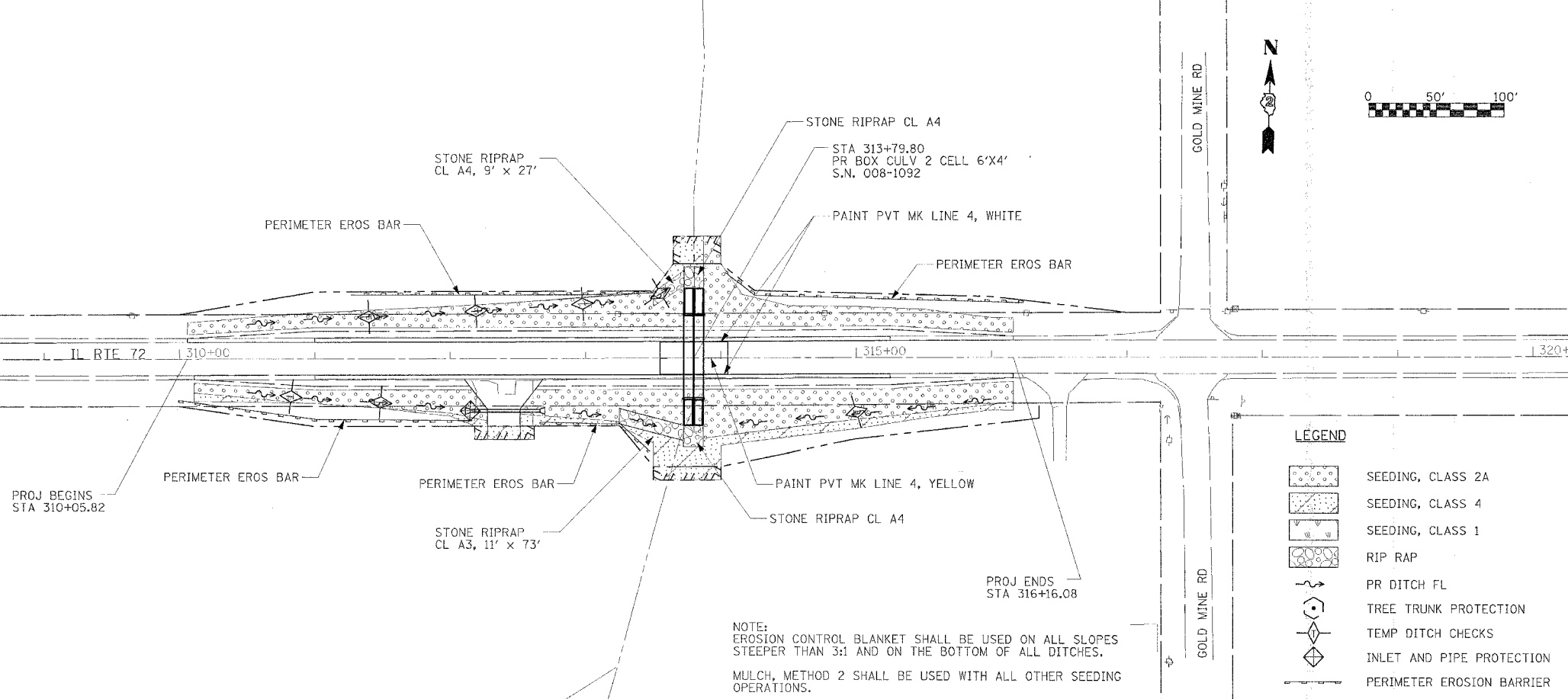
\* CARROLL & OGLE



**LEGEND**

- SEEDING, CLASS 2A
- SEEDING, CLASS 4
- SEEDING, CLASS 1
- RIP RAP
- PR DITCH FL
- TREE TRUNK PROTECTION
- TEMP DITCH CHECKS
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER

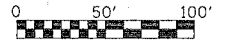
NOTE:  
EROSION CONTROL BLANKET SHALL BE USED ON ALL SLOPES STEEPER THAN 3:1 AND ON THE BOTTOM OF ALL DITCHES.  
MULCH, METHOD 2 SHALL BE USED WITH ALL OTHER SEEDING OPERATIONS.



**LEGEND**

- SEEDING, CLASS 2A
- SEEDING, CLASS 4
- SEEDING, CLASS 1
- RIP RAP
- PR DITCH FL
- TREE TRUNK PROTECTION
- TEMP DITCH CHECKS
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER

NOTE:  
EROSION CONTROL BLANKET SHALL BE USED ON ALL SLOPES STEEPER THAN 3:1 AND ON THE BOTTOM OF ALL DITCHES.  
MULCH, METHOD 2 SHALL BE USED WITH ALL OTHER SEEDING OPERATIONS.



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USER NAME = JMM

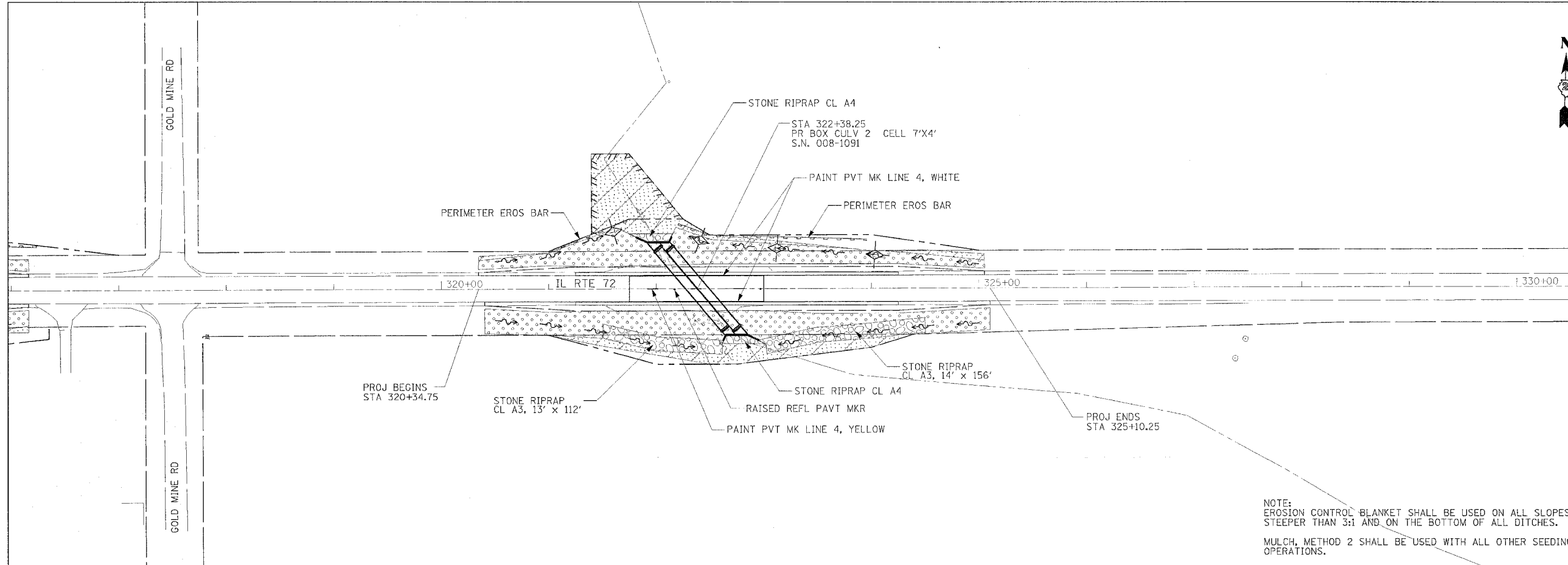
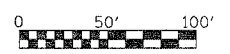
**EROSION CONTROL AND PAVEMENT MARKINGS**



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1		118	24

STA.	TO STA.
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

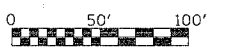
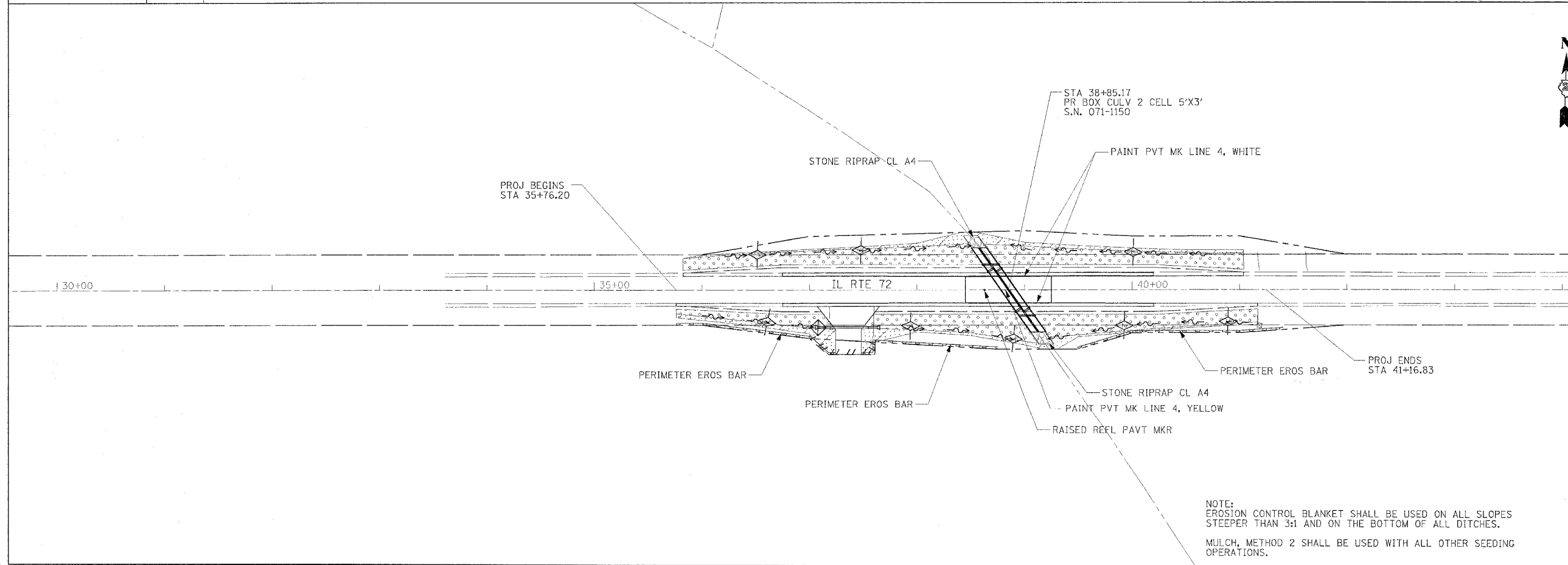
CARROLL & OGLE



**LEGEND**

- SEEDING, CLASS 2A
- SEEDING, CLASS 4
- SEEDING, CLASS 1
- RIP RAP
- PR DITCH FL
- TREE TRUNK PROTECTION
- TEMP DITCH CHECKS
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER

NOTE:  
EROSION CONTROL BLANKET SHALL BE USED ON ALL SLOPES STEEPER THAN 3:1 AND ON THE BOTTOM OF ALL DITCHES.  
MULCH, METHOD 2 SHALL BE USED WITH ALL OTHER SEEDING OPERATIONS.



**LEGEND**

- SEEDING, CLASS 2A
- SEEDING, CLASS 4
- SEEDING, CLASS 1
- RIP RAP
- PR DITCH FL
- TREE TRUNK PROTECTION
- TEMP DITCH CHECKS
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER

NOTE:  
EROSION CONTROL BLANKET SHALL BE USED ON ALL SLOPES STEEPER THAN 3:1 AND ON THE BOTTOM OF ALL DITCHES.  
MULCH, METHOD 2 SHALL BE USED WITH ALL OTHER SEEDING OPERATIONS.

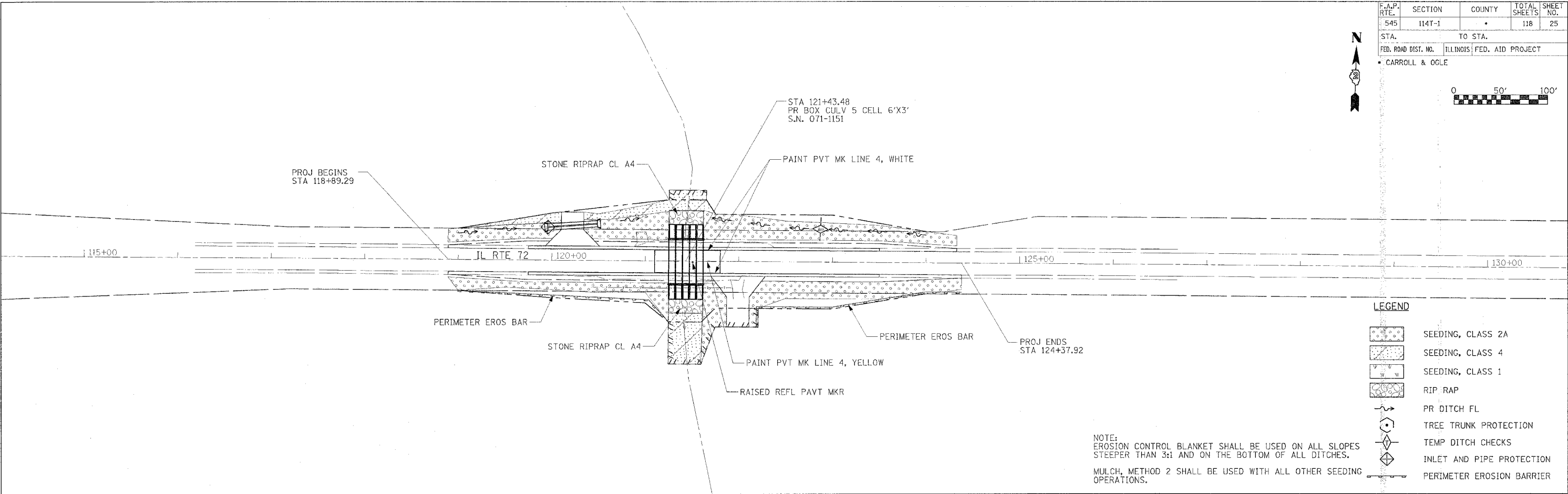
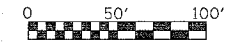
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USER NAME = J082878

**EROSION CONTROL AND PAVEMENT MARKINGS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1		118	25

STA.	TO STA.

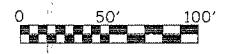
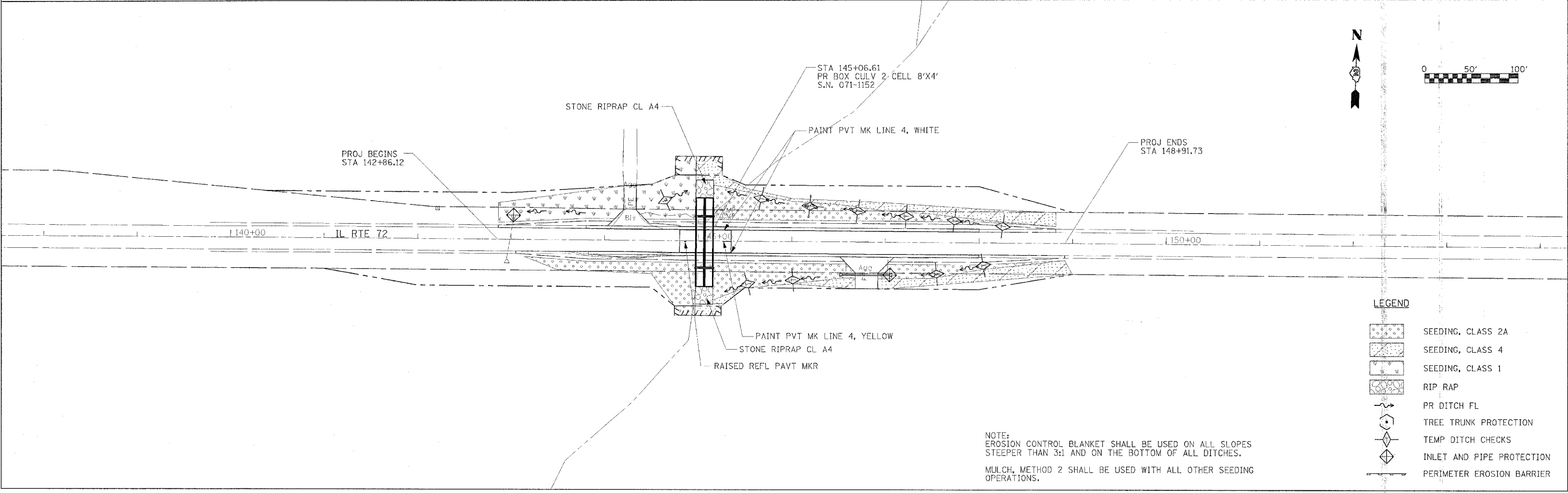
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT  
 • CARROLL & OGLE



**LEGEND**

- SEEDING, CLASS 2A
- SEEDING, CLASS 4
- SEEDING, CLASS 1
- RIP RAP
- PR DITCH FL
- TREE TRUNK PROTECTION
- TEMP DITCH CHECKS
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER

NOTE:  
 EROSION CONTROL BLANKET SHALL BE USED ON ALL SLOPES  
 STEEPER THAN 3:1 AND ON THE BOTTOM OF ALL DITCHES.  
 MULCH, METHOD 2 SHALL BE USED WITH ALL OTHER SEEDING  
 OPERATIONS.



**LEGEND**

- SEEDING, CLASS 2A
- SEEDING, CLASS 4
- SEEDING, CLASS 1
- RIP RAP
- PR DITCH FL
- TREE TRUNK PROTECTION
- TEMP DITCH CHECKS
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER

NOTE:  
 EROSION CONTROL BLANKET SHALL BE USED ON ALL SLOPES  
 STEEPER THAN 3:1 AND ON THE BOTTOM OF ALL DITCHES.  
 MULCH, METHOD 2 SHALL BE USED WITH ALL OTHER SEEDING  
 OPERATIONS.

DATE \* \* \* \* \*  
 FILE NAME \* \* \* \* \*  
 PLOT SCALE \* \* \* \* \*  
 USER NAME \* \* \* \* \*

**EROSION CONTROL AND PAVEMENT MARKINGS**

BENCH MARK: BM 401  
 STA. 246+53.81, 33.23' LT., EL. 895.318  
 BENCH-TIE IN POWER POLE NORTH OF  
 IL 72 EAST OF CULVERT.

EXISTING STRUCTURE:  
 SINGLE 10'-0" x 6'-0" x 36'-0" CONCRETE BOX CULVERT.

NO SALVAGE.

PROPOSED IMPROVEMENTS:  
 EXISTING STRUCTURE TO BE REMOVED AND REPLACED  
 WITH A DOUBLE 10'-0" x 5'-0" PRECAST CONCRETE BOX  
 CULVERT WITH CAST IN PLACE END SECTIONS.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 01 07 SHEETS
F.A.P. 545	114T-1	CARROLL	118	26	
FED. ROAD DIST. NO. R	ILLINOIS	FED. AID PROJECT			

Contract # 64C31

DESIGN SPECIFICATIONS

AASHTO 2002 SPECIFICATIONS

LOADING HS20-44

ALLOW 50#/SQ. FT. FOR FUTURE WEARING SURFACE.

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$  PSI  
 $f_y = 60,000$  PSI (REINFORCEMENT)

PRECAST UNITS

$f'_c = 5,000$  PSI  
 $f_y = 60,000$  PSI (REINFORCEMENT)

TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE BOX CULVERTS	CU. YD.	24.5
PRECAST CONCRETE BOX CULVERT 10' x 5'	FOOT	170
REINFORCEMENT BARS	POUND	1,637
NAME PLATES	EACH	1
REMOVAL OF EXISTING STRUCTURE NO. 1	EACH	1
STONE RIPRAP, CLASS A4	SQ. YD.	140
FILTER FABRIC	SQ. YD.	140
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU. YD.	105
BREAKER-RUN CRUSHED STONE	TON	171

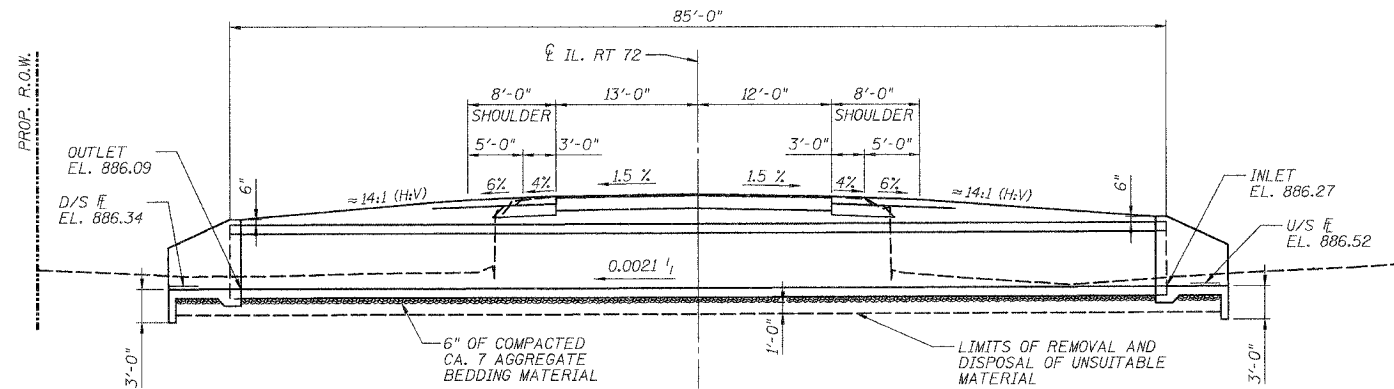
GENERAL NOTES

- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GR 60 (IL MODIFIED), SEE SPECIAL PROVISION.
- EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER.
- CULVERT FLOWS MUST BE MAINTAINED THROUGHOUT THE PROJECT. NORMAL FLOW SHALL BE ALLOWED TO PASS AT THE RATE IT ENTERS THE JOBSITE. HIGH FLOWS SHALL BE ALLOWED TO PASS WITHOUT CAUSING DAMAGE TO UPSTREAM PROPERTIES.
- THE CONTRACTOR SHALL CLEAN OUT CULVERT STREAM FLOW TO THE RIGHT OF WAY LINES. THE COST SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "PRECAST CONCRETE BOX CULVERT 10'x5'".
- STRUCTURE EXCAVATION AND GRADING AROUND ENDS OF CULVERT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "PRECAST CONCRETE BOX CULVERT 10' x 5'".
- PLACEMENT AND COMPACTION OF THE BACKFILL FOR CULVERT SHALL CONFORM TO SECTION 502.10 OF THE STANDARD SPECIFICATIONS. EXCEPT THAT THE MATERIAL SHALL CONFORM TO SECTION 1004.05 OF THE STANDARD SPECIFICATIONS FOR COARSE AGGREGATE FOR TRENCH BACKFILL, AND SHALL BE COMPACTED TO MINIMUM OF 95% OF THE STANDARD LABORATORY DENSITY. THE ENTIRE EXCAVATION, WITHIN 2 FEET OUTSIDE OF EACH SHOULDER, SHALL BE BACKFILLED WITH TRENCH BACKFILL MATERIAL TO THE BOTTOM OF THE PROPOSED SUBGRADE. THIS TRENCH BACKFILL MATERIAL WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE CLASS OF CONCRETE INVOLVED OR OTHER UNIT PRICE ITEM OF THE WORK FOR WHICH IT IS REQUIRED.
- PRECAST SUBSTITUTION IS NOT ALLOWED FOR CULVERT APRONS AND WINGWALLS.
- PRECAST CONCRETE BOX CULVERT SLAB & WALL THICKNESS TAKEN FROM AASHTO MATERIAL SPECIFICATIONS. IF FABRICATOR CHOOSES TO ALTER DIMENSIONS, IT MUST BE APPROVED BY THE ENGINEER, AND THE CALCULATIONS SHALL BE PREPARED AND SEALED BY AN ILLINOIS LICENSED STRUCTURAL ENGINEER.
- THE NEW NUMBER FOR THIS STRUCTURE WILL BE 008-1090.
- THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M273 (DESIGN FILL HEIGHT = 2'-0")

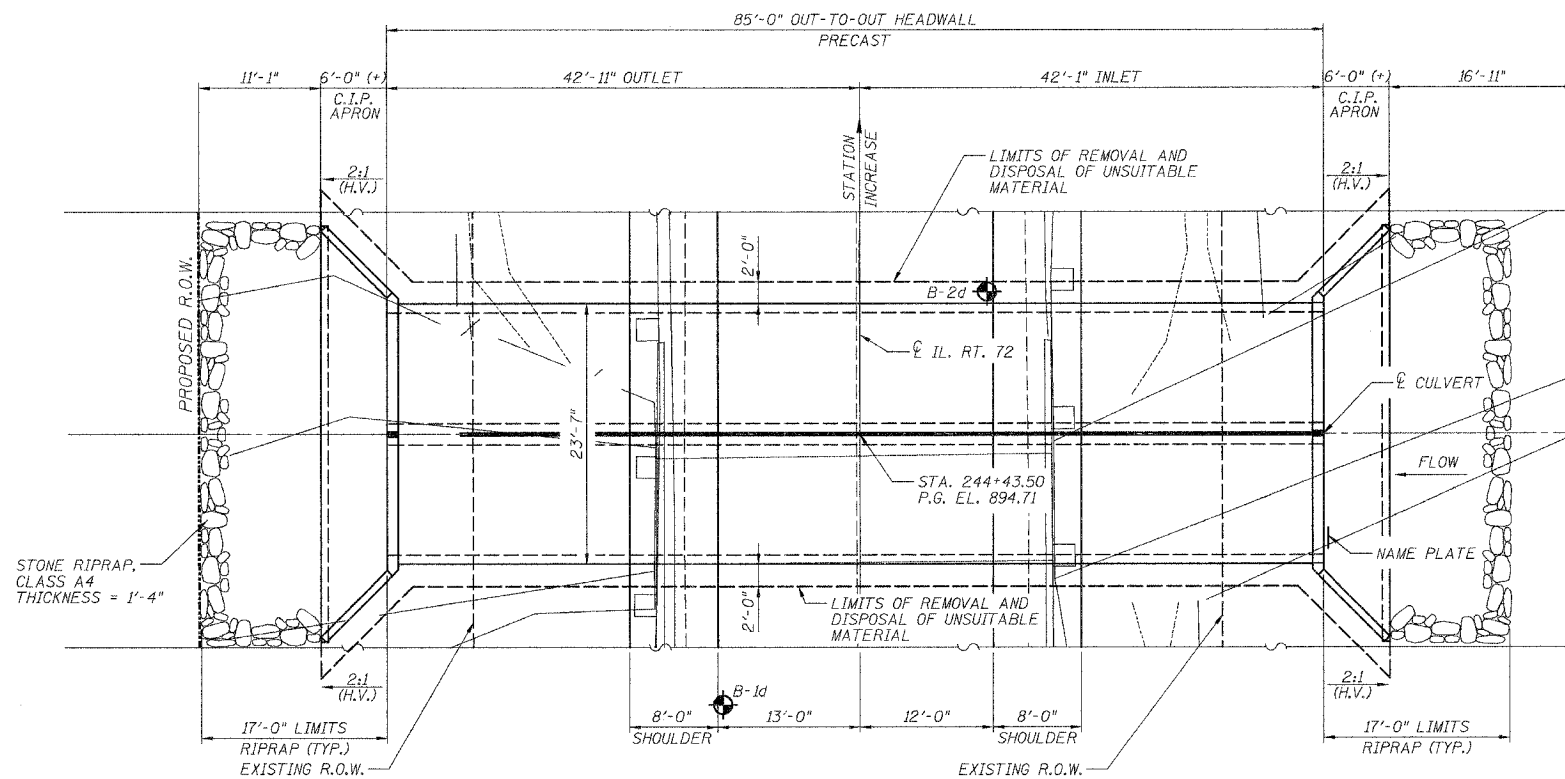
STATION 244+43.50  
 BUILT 200. BY  
 STATE OF ILLINOIS  
 IL. 72 SECT. 114T-1  
 LOADING HS20  
 STR. NO. 008-1090

NAME PLATE

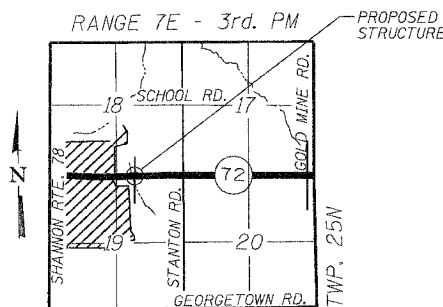
NOTE: SEE STANDARD DRAWING 515001  
 FOR NAME PLATE DETAILS.



LONGITUDINAL SECTION



PLAN



LOCATION SKETCH

DESIGNED - ASP	200
CHECKED - WSP	EXAMINED
DRAWN - BGC	PASSED
CHECKED - ASP	ENGINEER OF BRIDGES AND STRUCTURES

WATERWAY INFORMATION									
DRAINAGE AREA (SQ. MI.) = 1.33			LOW GRADE ELEV. (FEET) EXIST = 894.59 @ STA. 243.62 PROPOSED = 894.59 @ STA. 243.62						
FLOOD	FREQ. YR.	DISCHARGE C.F.S.	WATERWAY OPENING (SQ. FT)		NATURAL H.W.E.	HEAD (FT.)		HEADWATER ELEVATION	
			EXISTING	PROPOSED		EXISTING	PROPOSED	EXISTING	PROPOSED
TEN-YEAR	10	509	44.4	87.2	890.87	3.08	0.68	893.95	891.55
DESIGN	50	1046	53.8	100.0	891.80	3.77	2.70	895.57	894.50
BASE	100	1381	59.0	100.0	892.32	3.63	2.99	895.95	895.31
EX OVT	13	581	46.0	90.4	891.02	3.57		894.59	
PR OVT	61	1100	54.6	100.0	891.88		2.71		894.59
MAX CALC.	500	2513	60.0	100.0	893.27	3.41	3.28	896.68	896.55

GENERAL PLAN & ELEVATION

F.A.P. 545 (IL. RTE. 72)  
 SECTION 114T-1  
 CARROLL COUNTY  
 STATION 244+43.50  
 STRUCTURE NO. 008-1090

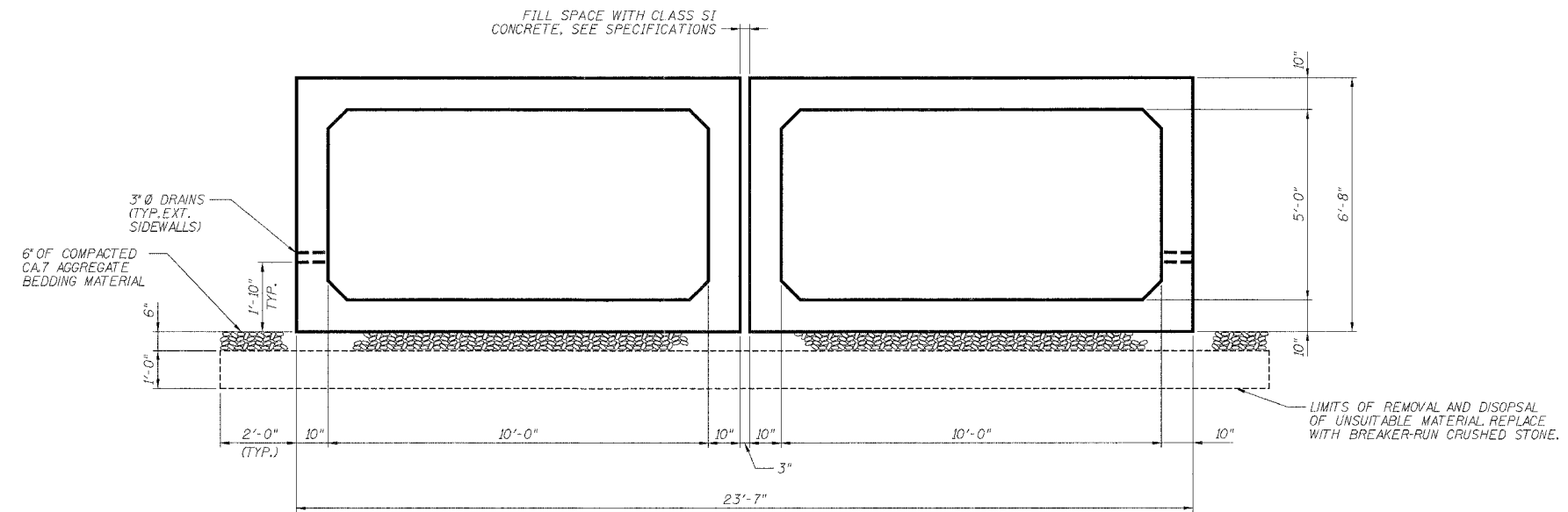


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 545	114T-1	CARROLL	118	27

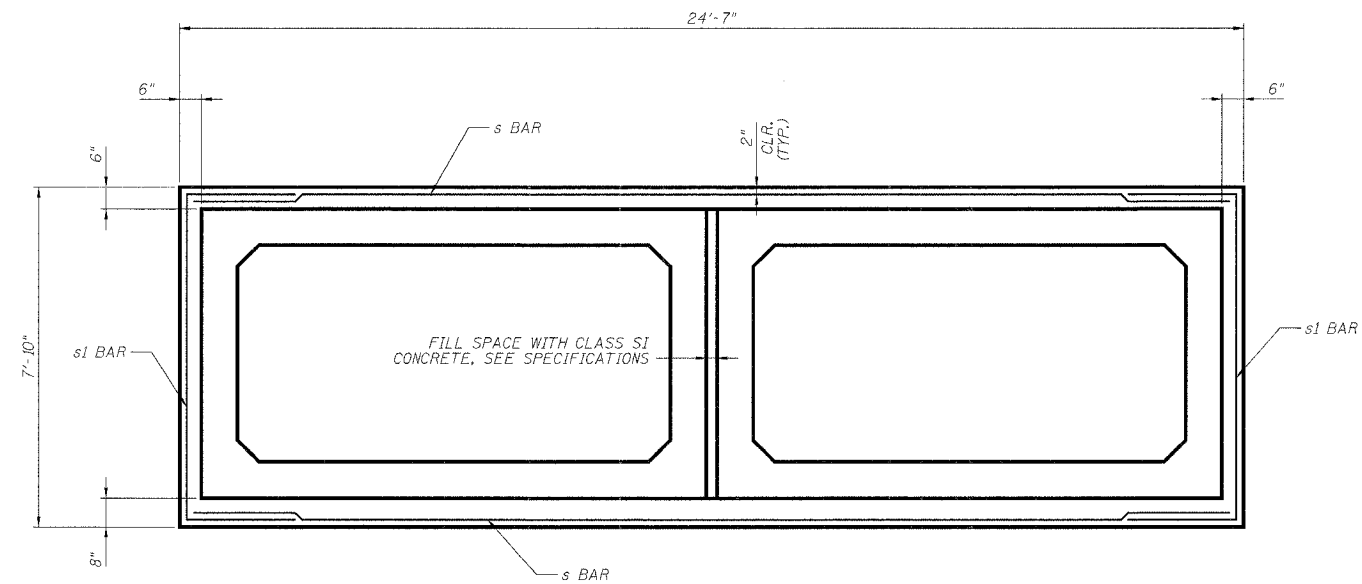
SHEET NO. 02  
07 SHEETS

Contract # 64C31



PRECAST TYPICAL SECTION

NOTE:  
CLASS SI CONCRETE TO BE POURED BETWEEN PRECAST SECTIONS PRIOR TO FORMING AND POURING CAST-IN-PLACE APRONS.



PRECAST TO CAST-IN-PLACE CONNECTION COLLAR SECTION A-A

DESIGNED -	ASP
CHECKED -	WSP
DRAWN -	BGC
CHECKED -	ASP

EXAMINED	200
PASSED	

ENGINEER OF BRIDGE DESIGN  
ENGINEER OF BRIDGES AND STRUCTURES

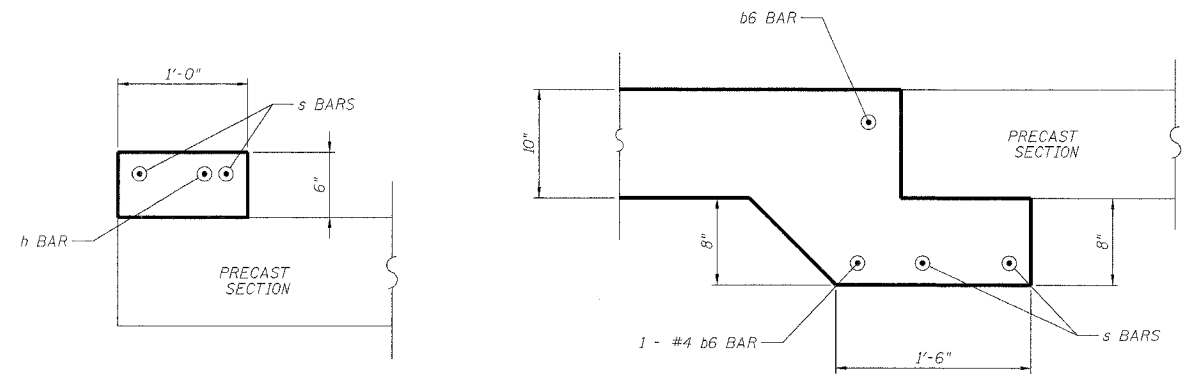
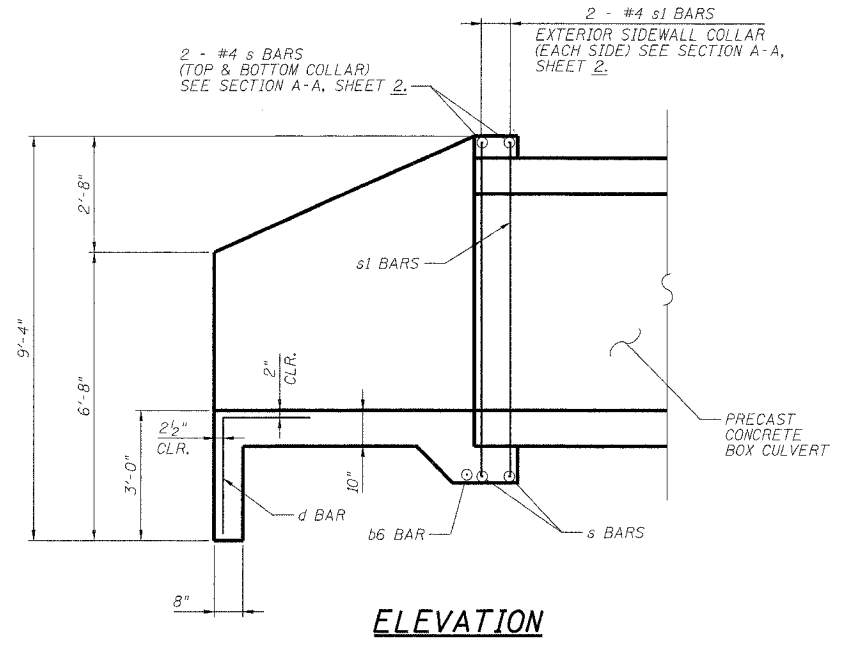
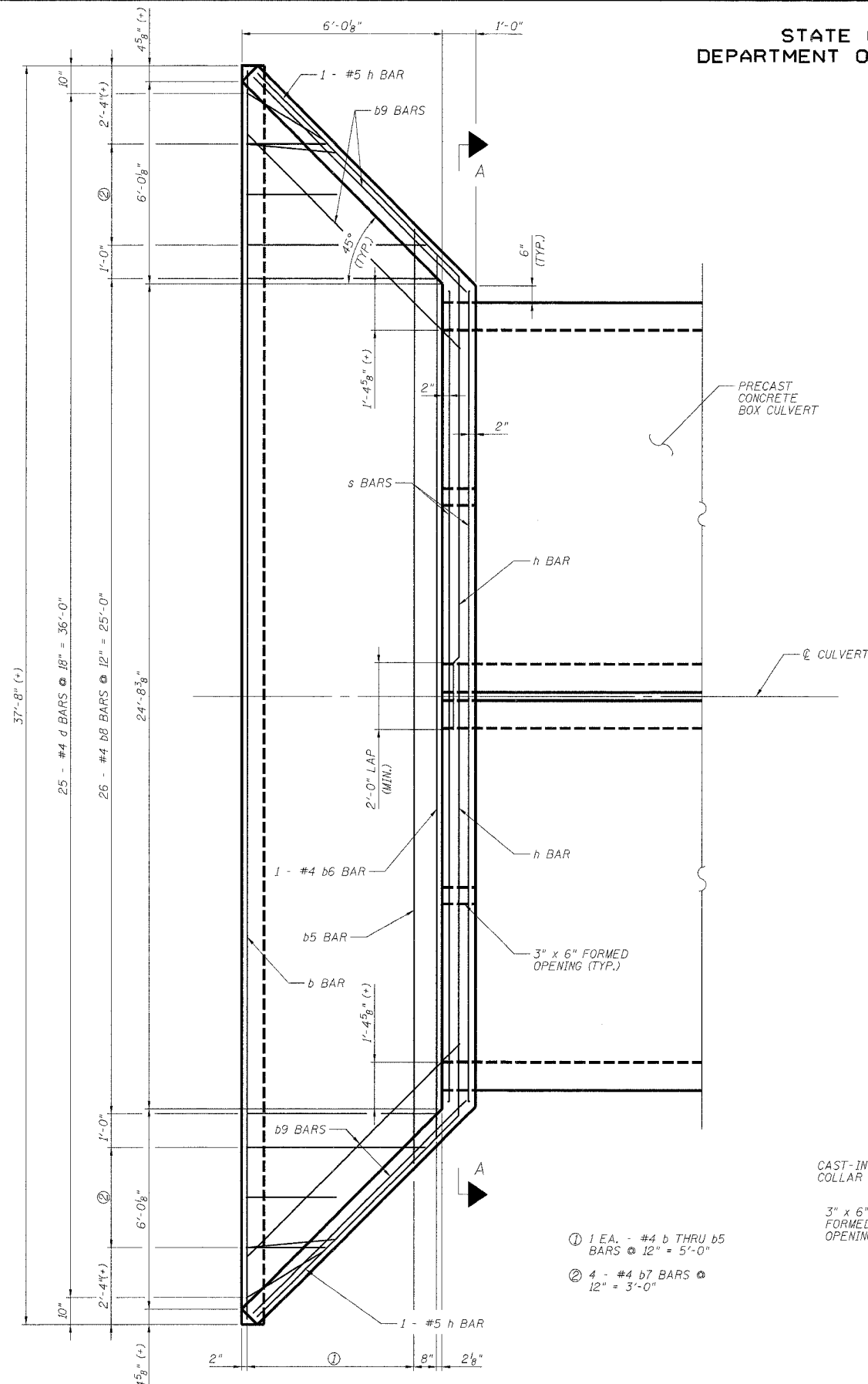
TYPICAL SECTIONS  
F.A.P. 545 (IL. RTE. 72)  
SECTION 114T-1  
CARROLL COUNTY  
STATION 244+43.50  
STRUCTURE NO. 008-1090

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
F.A.P. 545	114T-1	CARROLL	118	28
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT-		

Contract # 64C31

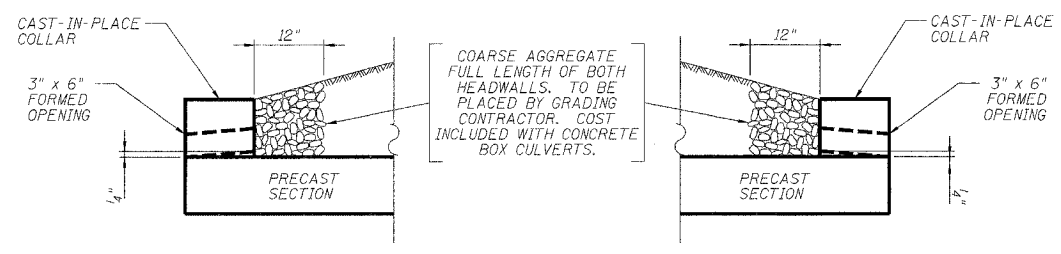
SHEET NO. 03  
07 SHEETS



TOP SLAB & SIDE WALL COLLARS

BOTTOM SLAB COLLAR

PRECAST TO CAST-IN-PLACE  
CONNECTION COLLAR



DOWNSTREAM END

UPSTREAM END

DRAIN DETAILS

CAST-IN-PLACE APRON PLAN  
F.A.P. 545 (IL. RTE. 72)  
SECTION 114T-1  
CARROLL COUNTY  
STATION 244+43.50  
STRUCTURE NO. 008-1090

DESIGNED -	ASP
CHECKED -	WSP
DRAWN -	BGC
CHECKED -	ASP

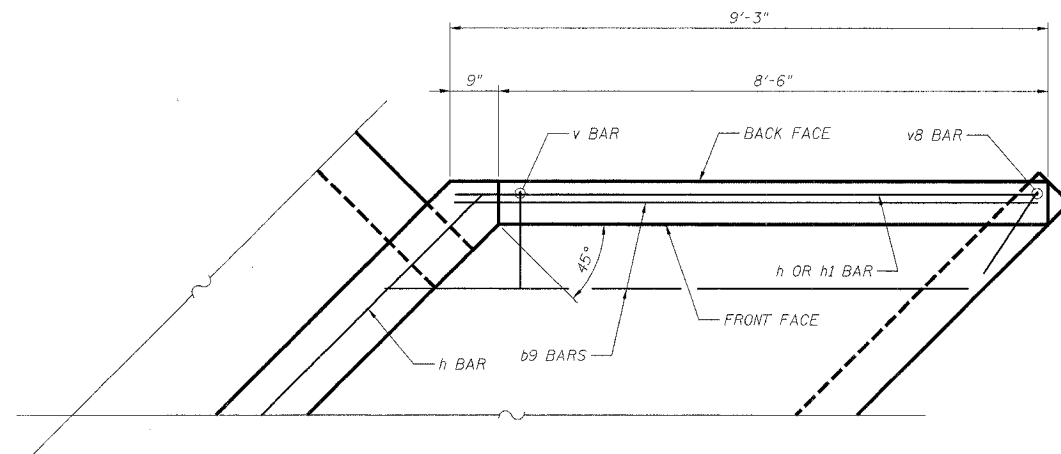
EXAMINED	200
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

PLAN  
TYPICAL EACH END

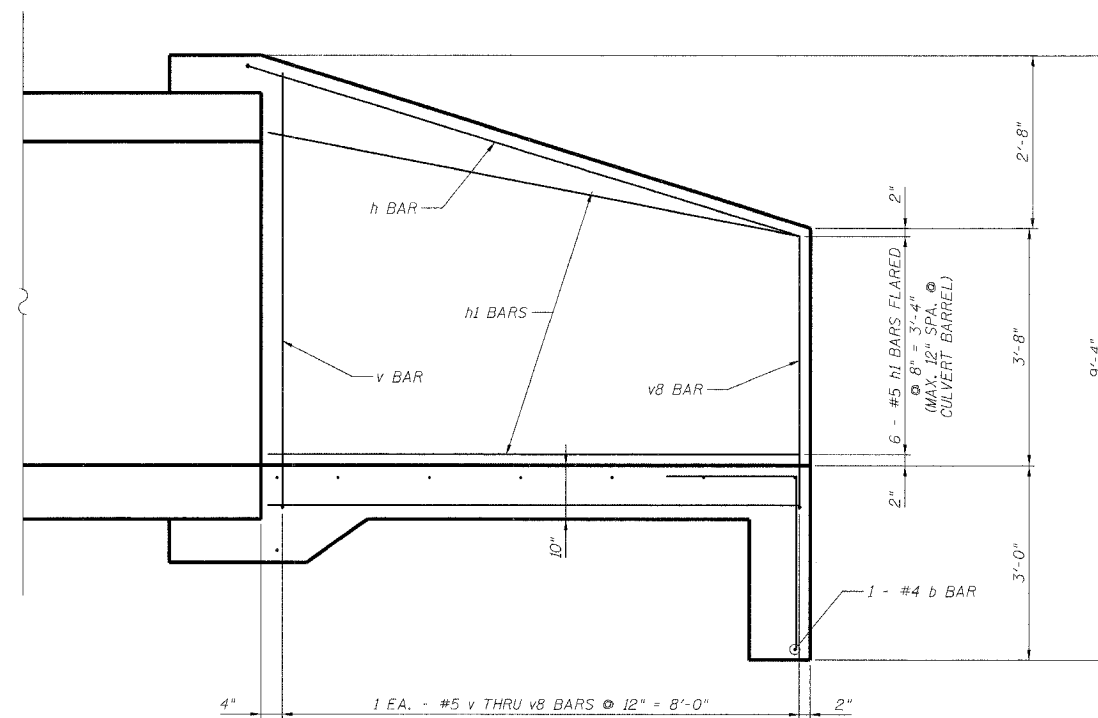
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
F.A.P. 545	114T-1	CARROLL	118	29	07 SHEETS
FED. ROAD DIST. NO. 2	BILLINGS	FED. AID PROJECT-			

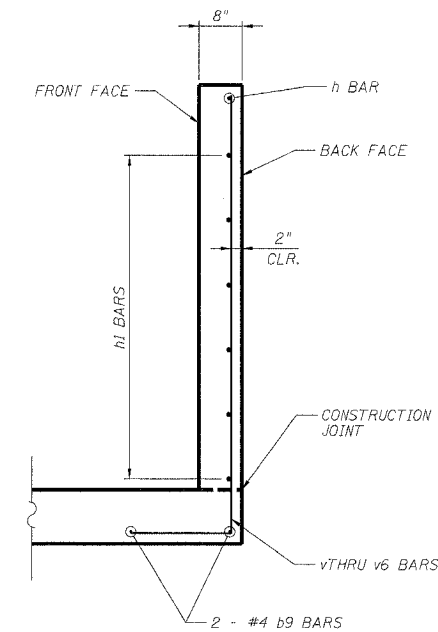
Contract # 64C31



**WING PLAN**  
SIMILAR ALL WINGS (4 TOTAL)



**WING ELEVATION**  
SIMILAR ALL WINGS (4 TOTAL)



**WING TYPICAL SECTION**  
SIMILAR ALL WINGS (4 TOTAL)

DESIGNED -	ASP
CHECKED -	WSP
DRAWN -	BGC
CHECKED -	ASP

EXAMINED	200
PASSED	

ENGINEER OF BRIDGE DESIGN  
ENGINEER OF BRIDGES AND STRUCTURES

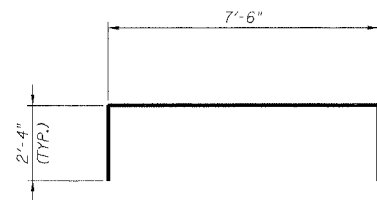
**WINGS A THRU D**  
**F.A.P. 545 (IL. RTE. 72)**  
**SECTION 114T-1**  
**CARROLL COUNTY**  
**STATION 244+43.50**  
**STRUCTURE NO. 008-1090**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

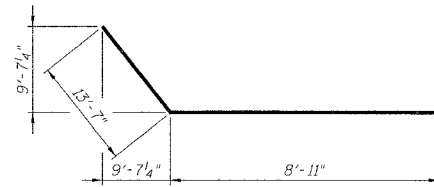
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
F.A.P. 545	114T-1	CARROLL	118	30
FED. ROAD DIST. NO. 2		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 05  
07 SHEETS

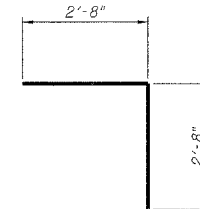
Contract # 64031



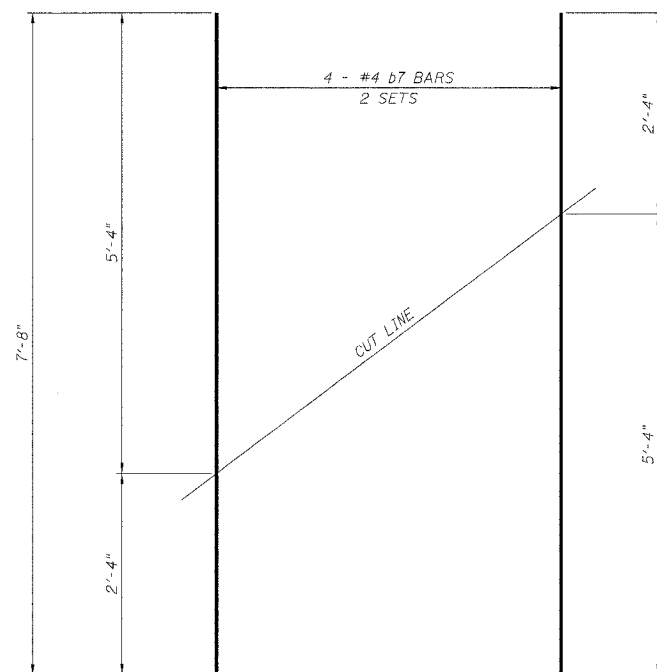
BAR sl



BAR h



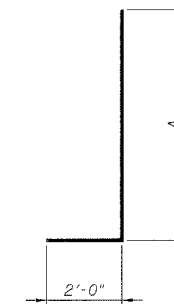
BAR d



BARS b7

FIELD CUTTING DIAGRAM

ORDER BARS FULL LENGTH. CUT AS SHOWN  
AND USE REMAINDER OF BAR IN OPPOSITE END.



BARS v THRU v8

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b	4	4	37'-3"	—
b1	2	4	35'-9"	—
b2	2	4	33'-9"	—
b3	2	4	31'-9"	—
b4	2	4	29'-9"	—
b5	2	4	27'-9"	—
b6	4	4	26'-5"	—
b7	8	4	7'-8"	—
b8	52	4	5'-8"	—
b9	8	4	9'-0"	—
d	50	4	5'-4"	—
h	4	5	22'-6"	—
h1	24	5	9'-0"	—
s	8	5	24'-1"	—
sl	8	5	12'-4"	—
v	4	5	8'-8"	—
v1	4	5	8'-4"	—
v2	4	5	8'-0"	—
v3	4	5	7'-8"	—
v4	4	5	7'-5"	—
v5	4	5	7'-1"	—
v6	4	5	6'-9"	—
v7	4	5	6'-5"	—
v8	4	5	6'-2"	—
Reinforcement Bars		Pound	1637	

BAR BENDING DIAGRAMS

Bar	A	
	Ft.	In.
v	6	8
v1	6	4
v2	6	0
v3	5	8
v4	5	5
v5	5	1
v6	4	9
v7	4	5
v8	4	2

DESIGNED -	ASP
CHECKED -	WSP
DRAWN -	BGC
CHECKED -	ASP

EXAMINED	200
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

BARBILL & DETAILS  
F.A.P. 545 (IL. RTE. 72)  
SECTION 114T-1  
CARROLL COUNTY  
STATION 244+43.50  
STRUCTURE NO. 008-1090

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Page 1 of 2

Date 5/10/06

ROUTE IL 72 DESCRIPTION P92-073-06 Box culvert, 0.6 m. E. of Shannon Road LOGGED BY W. Garza

SECTION \_\_\_\_\_ LOCATION Shannon Twp. - 18 SE. SEC. , TWP. 25N. RNG. 7E

COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 008-1081 DEPT. W. S. Qu T  
Station \_\_\_\_\_ H S Qu T

BORING NO. B-1d H S Qu T  
Station +18 W. of Culv CL  
Offset 12.00R N CL  
Ground Surface Elev. 99.6 ft (ft) (ft) (tsf) (%)

SOIL DESCRIPTION	DEPTH (ft)	BLOWS	UCS (tsf)	MOISTURE (%)	DEPTH (ft)	BLOWS	UCS (tsf)	MOISTURE (%)
MEDIUM brown SILTY CLAY LOAM	5			15	5			
	6				6			
	7				7			
	78.10							
LOOSE tan Road Rock	1				5			
	3				8	1.7	12	
	6				10			
	95.60				76.60			
DENSE tan Road Rock and Rip Rap	7				6			
	22				10	1.4	12	
	15				11			
	92.60				72.60			
STIFF black CLAY LOAM	3			30	10			
	2	2.0			9			
	3				18			
	90.10				70.10			
LOOSE gray dirty SAND and medium GRAVEL	4				8			
	4				8	2.5	12	
	4				11			
	87.60				69.10			
MEDIUM gray SILTY CLAY TILL	2			14	5			
	3	0.9			7	1.9	11	
	5				9			
	85.60				65.60			
STIFF gray LOAM TILL	1				2			
	3	1.03		13	3	1.1	13	
	6				7			
	83.10				63.10			
STIFF gray SILTY LOAM TILL	4				5			
	6	1.5		12	6	0.9	13	
	6				9			
	80.60				60.60			
	20				40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

Page 2 of 2

Date 5/10/06

ROUTE IL 72 DESCRIPTION P92-073-06 Box culvert, 0.6 m. E. of Shannon Road LOGGED BY W. Garza

SECTION \_\_\_\_\_ LOCATION Shannon Twp. - 18 SE. SEC. , TWP. 25N. RNG. 7E

COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 008-1081 DEPT. W. S. Qu T  
Station \_\_\_\_\_ H S Qu T

BORING NO. B-1d H S Qu T  
Station +18 W. of Culv CL  
Offset 12.00R N CL  
Ground Surface Elev. 99.6 ft (ft) (ft) (tsf) (%)

SOIL DESCRIPTION	DEPTH (ft)	BLOWS	UCS (tsf)	MOISTURE (%)	DEPTH (ft)	BLOWS	UCS (tsf)	MOISTURE (%)
SOFT gray LOAM TILL	3			14	3			
	3	0.5			6			
	6							
	58.10							
End of Boring								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

DESIGNED - ASP	200
CHECKED - WSP	EXAMINED
DRAWN - BGC	PASSED
CHECKED - ASP	ENGINEER OF BRIDGES AND STRUCTURES

**BORING LOG**  
**F.A.P. 545 (IL. RTE. 72)**  
**SECTION 114T-1**  
**CARROLL COUNTY**  
**STATION 244+43.50**  
**STRUCTURE NO. 008-1090**





BENCH MARK: TBM 403  
 STA. 317+30.56, 25.89' LT., EL. 913.497  
 CUT SQUARE ON HEADWALL ON NW  
 QUAD IL 72 & GOLD MINE ROAD, EAST  
 OF CULVERT.

EXISTING STRUCTURE:  
 SINGLE 10'-0" x 5'-0" x 36'-0"  
 CONCRETE BOX CULVERT WITH  
 10'-0" x 7'-0" WEIR @ INLET END.

NO SALVAGE.

PROPOSED IMPROVEMENTS:  
 EXISTING STRUCTURE TO BE REMOVED AND REPLACED  
 WITH A DOUBLE 6'-0" x 4'-0" PRECAST CONCRETE BOX  
 CULVERT WITH PRECAST CONCRETE BOX CULVERT  
 END SECTIONS.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

STATION 313+79.80  
 BUILT 200. BY  
 STATE OF ILLINOIS  
 IL. 72 SECT. 114T-1  
 LOADING HS20  
 STR. NO. 008-1092

NAME PLATE

NOTE: SEE STANDARD DRAWING 515001  
 FOR NAME PLATE DETAILS.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 545	114T-1	CARROLL	118	33
SHEET NO. 01 05 SHEETS				

Contract # 64C31

DESIGN SPECIFICATIONS

AASHTO 2002 SPECIFICATIONS

LOADING HS20-44

ALLOW 50#./SQ. FT. FOR FUTURE WEARING SURFACE.

DESIGN STRESSES

FIELD UNITS

$f_c = 3,500$  PSI  
 $f_y = 60,000$  PSI (REINFORCEMENT)

PRECAST UNITS

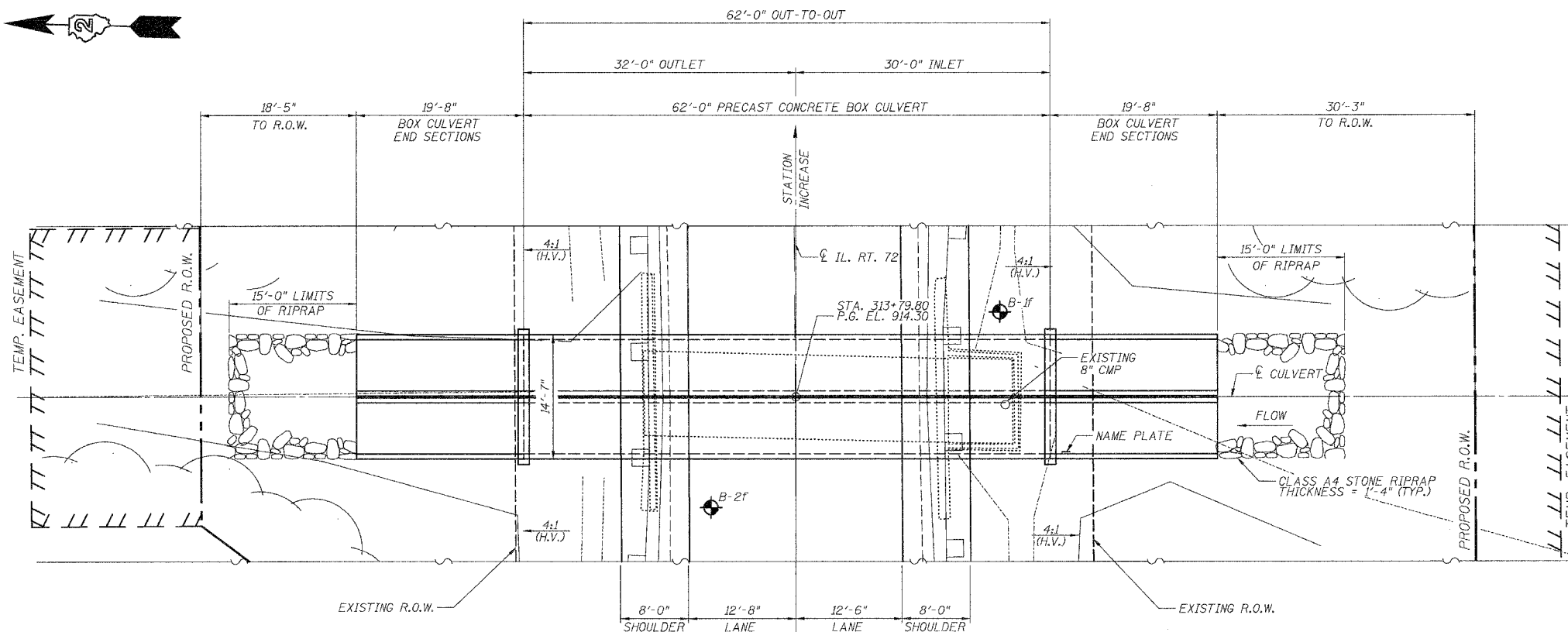
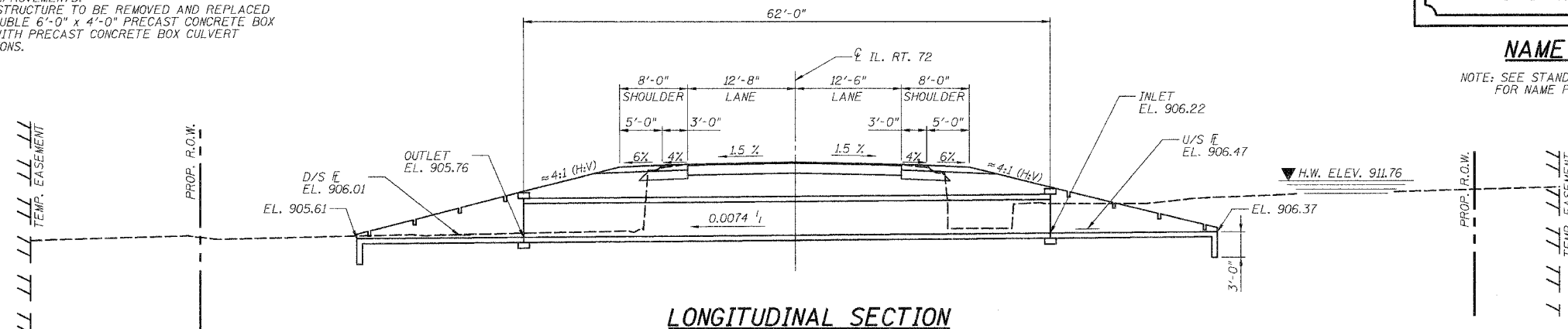
$f_c = 5,000$  PSI  
 $f_y = 60,000$  PSI (REINFORCEMENT)

TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
BOX CULVERT END SECTIONS NO. 1	EACH	4
PRECAST CONCRETE BOX CULVERT 6' x 4'	FOOT	124
REMOVAL OF EXISTING STRUCTURE NO.2	EACH	1
STONE RIPRAP, CLASS A4	SQ. YD.	50
FILTER FABRIC	SQ. YD.	50
NAME PLATES	EACH	1

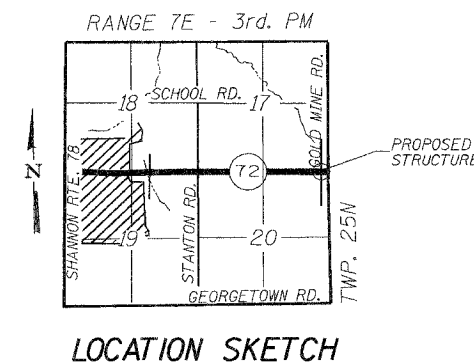
GENERAL NOTES

- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GR 60 (IL MODIFIED). SEE SPECIAL PROVISION.
- EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER.
- CULVERT FLOWS MUST BE MAINTAINED THROUGHOUT THE PROJECT. NORMAL FLOW SHALL BE ALLOWED TO PASS AT THE RATE IT ENTERS THE JOBSITE. HIGH FLOWS SHALL BE ALLOWED TO PASS WITHOUT CAUSING DAMAGE TO UPSTREAM PROPERTIES.
- THE CONTRACTOR SHALL CLEAN OUT CULVERT STREAM FLOW TO THE RIGHT OF WAY LINES. THE COST SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "PRECAST CONCRETE BOX CULVERT 6'x4'".
- STRUCTURE EXCAVATION AND GRADING AROUND ENDS OF CULVERT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "PRECAST CONCRETE BOX CULVERT 6'x4'".
- PLACEMENT AND COMPACTION OF THE BACKFILL FOR CULVERT SHALL CONFORM TO SECTION 502.10 OF THE STANDARD SPECIFICATIONS. THE MATERIAL SHALL CONFORM TO SECTION 1004.05 OF THE STANDARD SPECIFICATIONS FOR COARSE AGGREGATE FOR TRENCH BACKFILL, AND SHALL BE COMPACTED TO MINIMUM OF 95% OF THE STANDARD LABORATORY DENSITY. THE ENTIRE EXCAVATION, WITHIN 2 FEET OUTSIDE OF EACH SHOULDER, SHALL BE BACKFILLED WITH TRENCH BACKFILL MATERIAL TO THE BOTTOM OF THE PROPOSED SUBGRADE. THIS TRENCH BACKFILL MATERIAL WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE CLASS OF CONCRETE INVOLVED OR OTHER UNIT PRICE ITEM OF THE WORK FOR WHICH IT IS REQUIRED.
- ALL LABOR AND MATERIAL REQUIRED FOR THE CONSTRUCTION OF THE CONNECTION COLLAR SHALL BE INCLUDED IN THE BID ITEM "PRECAST CONCRETE BOX CULVERT 6'x4'".
- PRECAST CONCRETE BOX CULVERT SLAB & WALL THICKNESS TAKEN FROM AASHTO MATERIAL SPECIFICATIONS. IF FABRICATOR CHOOSES TO ALTER DIMENSIONS, IT MUST BE APPROVED BY THE ENGINEER AND THE CALCULATIONS SHALL BE PREPARED AND SEALED BY AN ILLINOIS LICENSED STRUCTURAL ENGINEER.
- BOX CULVERT END SECTIONS ARE TO BE PRECAST. CONTRACTOR HAS THE OPTION OF USING CAST-IN-PLACE END SECTIONS. FOR EITHER TYPE OF END SECTION, THE CONTRACTOR IS REQUIRED TO SUBMIT DESIGN CALCULATIONS TO BE APPROVED BY THE ENGINEER. THE DESIGN CALCULATIONS SHALL BE PREPARED AND SEALED BY AN ILLINOIS LICENSED STRUCTURAL ENGINEER. IF THE CONTRACTOR ELECTS TO USE CAST-IN-PLACE END SECTIONS, NO ADJUSTMENTS IN COSTS OF THE END SECTIONS WILL BE ALLOWED.
- THE NEW NUMBER FOR THIS STRUCTURE WILL BE 008-1092.
- THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M259 (DESIGN FILL HEIGHT = 3'-0")



PLAN

WATERWAY INFORMATION				
DRAINAGE AREA (ACRES) = 231.0		LOW GRADE ELEV. (FEET) EXIST = 913.94 @ STA. 315+31 PROPOSED = 913.94 @ STA. 315+31		
FLOOD	FREQ. YR.	DISCHARGE C.F.S.	HEADWATER ELEVATION	
			EXISTING	PROPOSED
TEN-YEAR	10	158	910.04	909.64
DESIGN	50	326	912.41	911.76
BASE	100	432	913.63	913.19
EX OVT	115	447	913.94	---
PR OVT	135	477	---	913.94



DESIGNED -	ASP
CHECKED -	WSP
DRAWN -	BGC
CHECKED -	ASP

EXAMINED	200
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES



Wayne A. Truel  
 11-30-08

GENERAL PLAN & ELEVATION

F.A.P. 545 (IL. RTE. 72)

SECTION 114T-1

CARROLL COUNTY

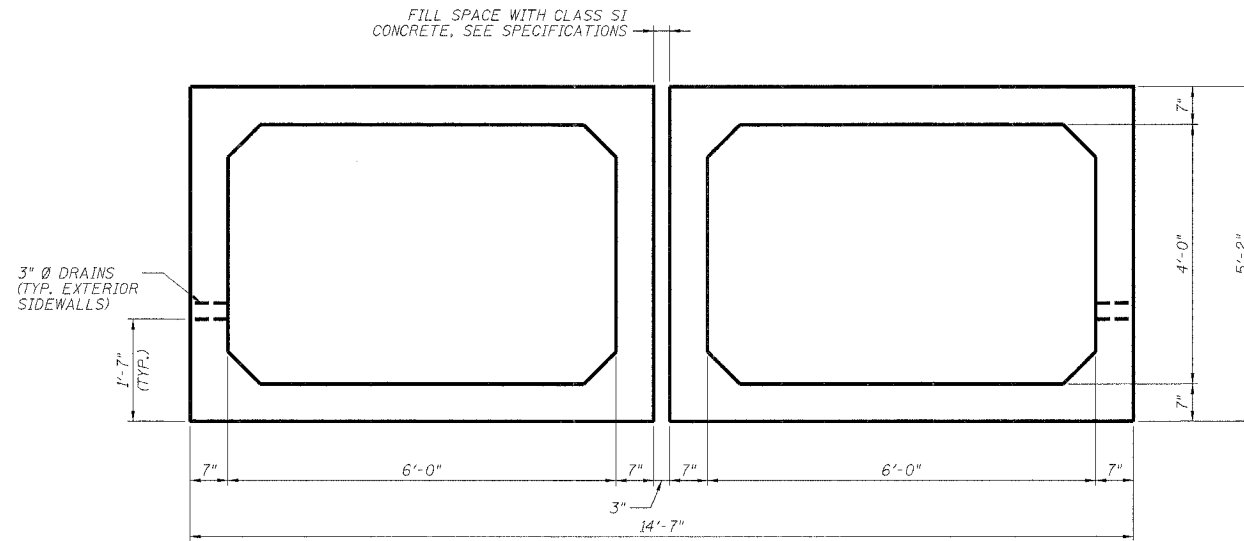
STATION 313+79.80

STRUCTURE NO. 008-1092

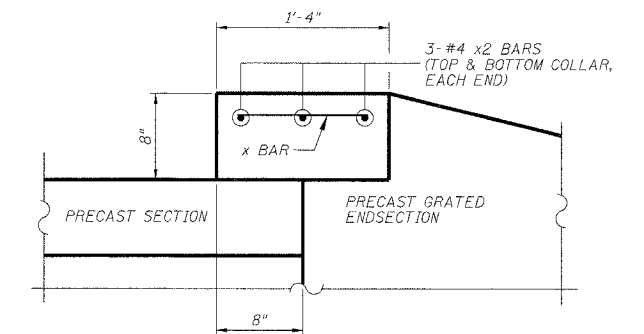
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO.
F.A.P. 545	114T-1	CARROLL	118	34	02
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT			05 SHEETS

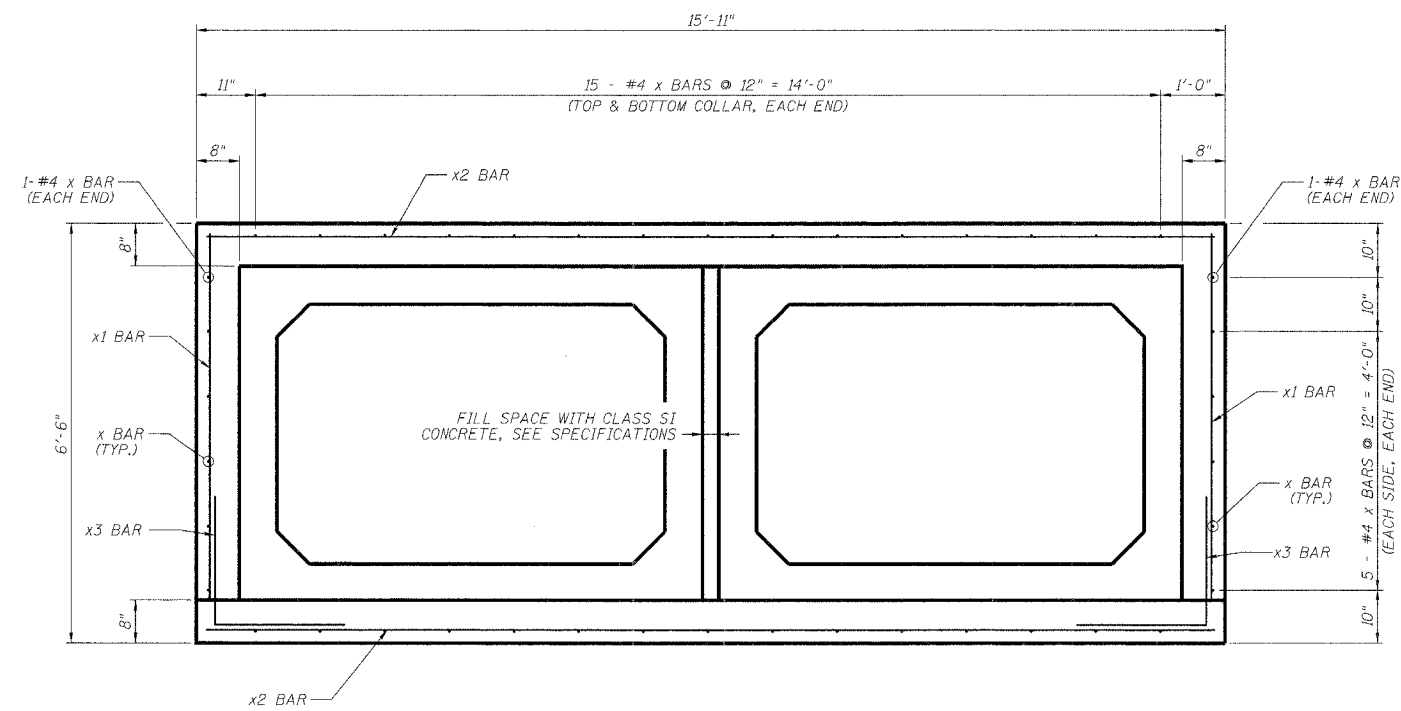
Contract # 64C31



PRECAST TYPICAL SECTION



COLLAR DETAIL

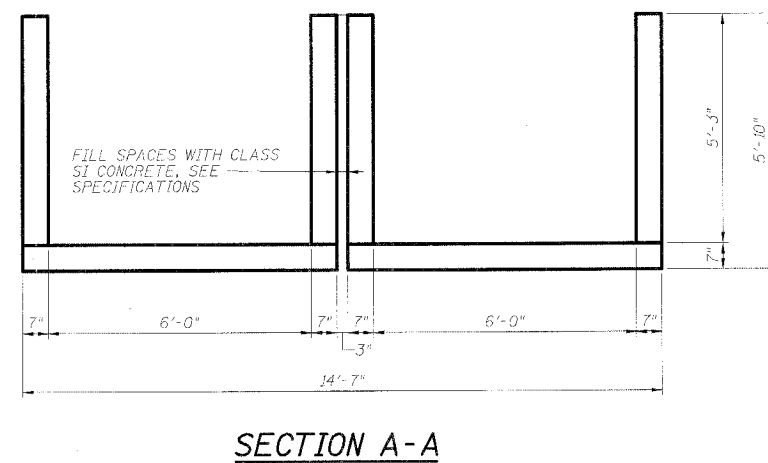
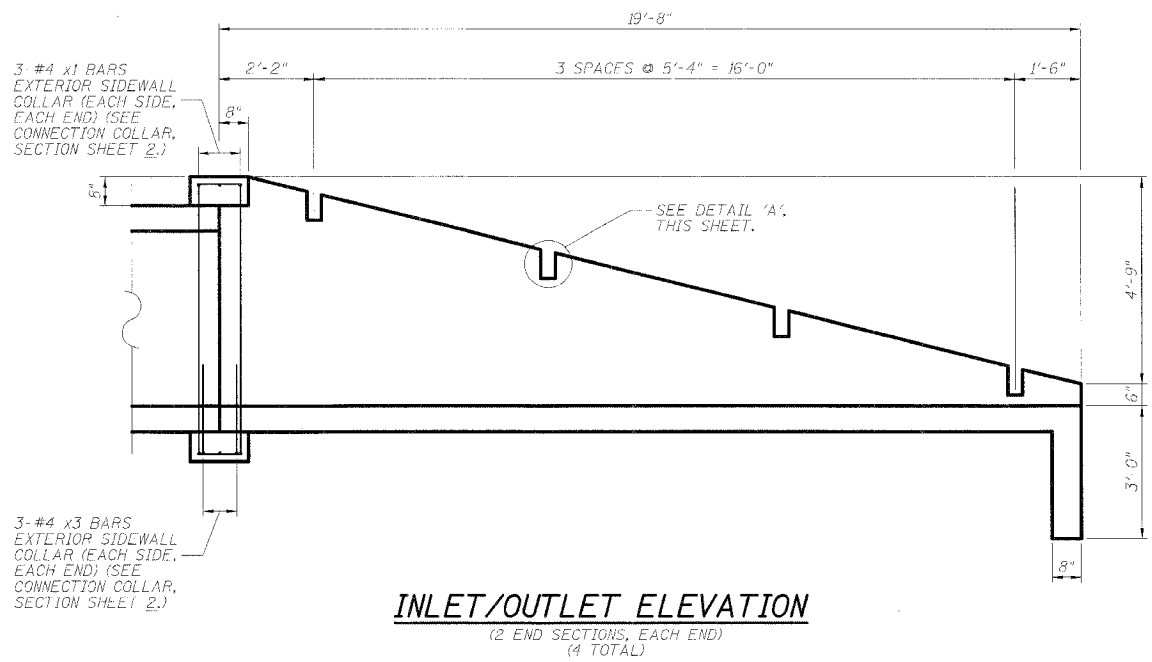


CONNECTION COLLAR SECTION

DESIGNED - ASP	200
CHECKED - WSP	EXAMINED
DRAWN - BGC	PASSED
CHECKED - ASP	ENGINEER OF BRIDGES AND STRUCTURES

TYPICAL SECTIONS  
F.A.P. 545 (IL. RTE. 72)  
SECTION 114T-1  
CARROLL COUNTY  
STATION 313+79.80  
STRUCTURE NO. 008-1092

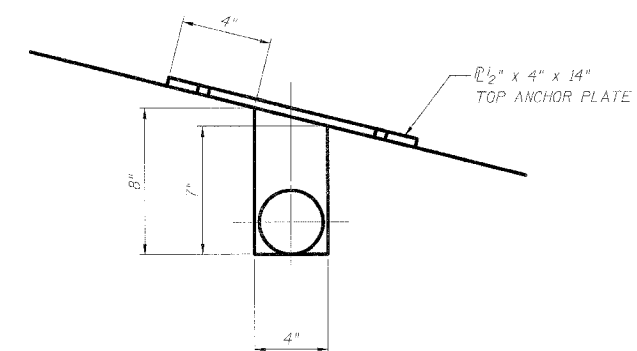
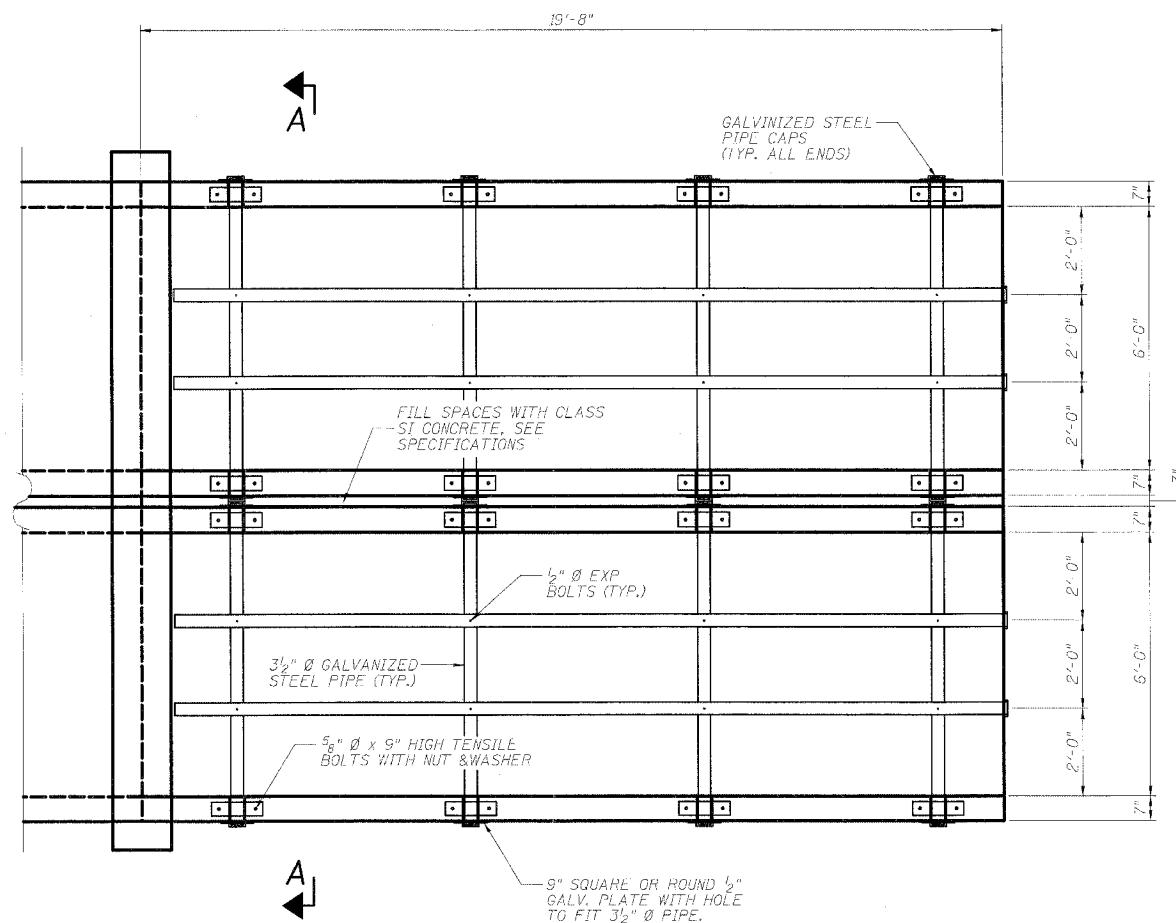
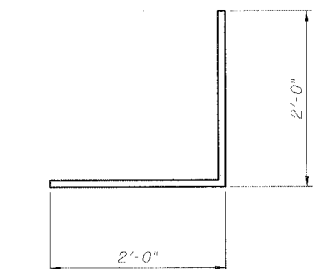
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**\* CONNECTION COLLAR  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
x	84	4	1'-0"		
x1	12	4	5'-8"		
x2	12	4	15'-7"		
x3	12	4	4'-0"		
CONCRETE STRUCTURES				CU. YD.	2.8
REINFORCEMENT BARS				POUND	265

\* FOR INFORMATIONAL PURPOSES ONLY.  
COST TO BE INCLUDED IN THE BID ITEM  
"PRECAST CONCRETE BOX CULVERT 6'x4' "



**BAR x3**

**\*\* BOX CULVERT END SECTIONS NO. 1  
BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
3/2" Ø GALV. STEEL PIPE	EACH	2 @ 19'-5"
		4 @ 7'-4"
1/2" x 4" x 14" GALV. ANCHOR PLATE	EACH	8
5/8" Ø x 9" GALV. BOLTS	EACH	8
1/2" Ø GALV. EXP. BOLTS	EACH	16
9" SQ. OR ROUND 1/2" GALV. PLATE	EACH	8
GALV. STEEL PIPE CAPS	EACH	12

\*\* QUANTITIES GIVEN ARE FOR EACH BOX  
CULVERT END SECTION. FOR INFORMATIONAL  
PURPOSES ONLY. COST TO BE INCLUDED  
IN THE BID ITEM "BOX CULVERT END  
SECTIONS NO. 1"

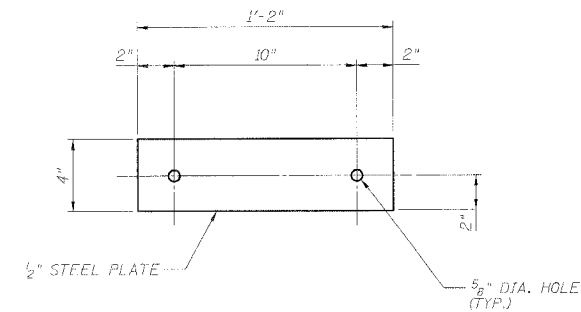
**GENERAL NOTES**

STEEL PIPES SHALL CONFORM TO A.S.T.M. A-53 (TYPE E OR S) GRADE B, SCHEDULE 40, & SHALL BE GALVANIZED CONFORMING TO A.S.T.M. A-120.

STEEL PLATES SHALL CONFORM TO AASHTO M-183 & SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

BOLTS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATIONS AND SHALL BE GALVANIZED.

THE CONTRACT UNIT PRICE "EACH" FOR BOX CULVERT END SECTION NO. 1 SHALL INCLUDE THE EXPANSION BOLTS, GALVANIZED PIPES, CLASS SI CONCRETE, BOLTS, NUTS, REINFORCEMENT, WASHERS, AND STEEL PLATES.



DESIGNED - ASP	EXAMINED - _____ ENGINEER OF BRIDGE DESIGN
CHECKED - WSP	PASSED - _____ ENGINEER OF BRIDGES AND STRUCTURES
DRAWN - BGC	
CHECKED - ASP	

**INLET/OUTLET PLAN**  
(2 END SECTIONS, EACH END)  
(4 TOTAL)

**BOX CULVERT END SECTIONS NO. 1**  
**F.A.P. 545 (IL. RTE. 72)**  
**SECTION 114T-1**  
**CARROLL COUNTY**  
**STATION 313+79.80**  
**STRUCTURE NO. 008-1092**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



Illinois Department of Transportation  
Division of Highways  
DOT

SOIL BORING LOG

Page 1 of 2

Date 4/27/06

ROUTE IL 72 DESCRIPTION P02-073-06 IL 72 over ditch, .1 m. W. of Goldmine Road LOGGED BY J. Strating  
SECTION LOCATION SEC. TWP. RNG.  
COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	Station	DEPT	BLO	UCS	M O I S T	Surface Water Elev.	Stream Bed Elev.	DEPT	BLO	UCS	M O I S T
BORING NO.	Station	H S	W S	Qu	T	Groundwater Elev.:	First Encounter	H S	W S	Qu	T
	Offset	(ft)	(/6")	(tsf)	(%)	Upon Completion	Dry ft	(ft)	(/6")	(tsf)	(%)
	008-1003					92.2 ft					
B-1f	+10 E. of Cully, CL					27.0'					
	24.00ft S CL					Dry					
	95.6 ft										
MEDIUM dark brown SILTY CLAY LOAM				0.8	23	STIFF gray SILTY CLAY LOAM TILL (continued)	74.60		2	1.8	14
				P					4	B	
STIFF dark brown SILTY LOAM	93.60		3			Same as above			3		
			4	1.5	30				4	1.4	15
	92.10		5	P			71.60		7	B	
STIFF dark brown SILTY CLAY LOAM			3			MEDIUM tan dirty SAND with GRAVEL			2		
			4	1.8	26				10		
	89.60		5	B			69.60		14		
Same as above			2			DENSE tan dirty SAND & GRAVEL			12		
			3	1.1	25				10		
	87.10		3	B			67.10		22		
SOFT tan LOAM TILL			1			DENSE tan/brown medium SAND with GRAVEL			3		
			2	0.3	11				14		
	84.60		2	P			64.10		16		
MEDIUM tan SILTY LOAM TILL			6			Wash STIFF gray SILTY CLAY			10		
			5	0.8	10				4	2.0	27
	82.10		7	B			62.10		6	P	
STIFF gray SILTY CLAY LOAM TILL			2			STIFF gray SILTY CLAY with SILT lenses			2		
			4	1.2	14				2	2.0	29
	79.60		7	B			59.60		4	P	
Same as above			3			Wash SOFT gray SILT			4		
			4	1.0	15				3	0.3	29
	77.10		7	B			57.10		4	P	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation  
Division of Highways  
DOT

SOIL BORING LOG

Page 2 of 2

Date 4/27/06

ROUTE IL 72 DESCRIPTION P02-073-06 IL 72 over ditch, .1 m. W. of Goldmine Road LOGGED BY J. Strating  
SECTION LOCATION SEC. TWP. RNG.  
COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	Station	DEPT	BLO	UCS	M O I S T	Surface Water Elev.	Stream Bed Elev.	DEPT	BLO	UCS	M O I S T
BORING NO.	Station	H S	W S	Qu	T	Groundwater Elev.:	First Encounter	H S	W S	Qu	T
	Offset	(ft)	(/6")	(tsf)	(%)	Upon Completion	Dry ft	(ft)	(/6")	(tsf)	(%)
	008-1003					92.2 ft					
B-1f	+10 E. of Cully, CL					27.0'					
	24.00ft S CL					Dry					
	95.6 ft										
Wash									2	0.5	27
MEDIUM gray SILT (continued)	54.60								2	P	
End of Boring									4		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

DESIGNED	ASP	200
CHECKED	WSP	EXAMINED
DRAWN	BGC	PASSED
CHECKED	ASP	

**BORING LOG**  
**F.A.P. 545 (IL. RTE. 72)**  
**SECTION 114T-1**  
**CARROLL COUNTY**  
**STATION 313+79.80**  
**STRUCTURE NO. 008-1092**



Illinois Department of Transportation  
Division of Highways  
IDOT

**SOIL BORING LOG**

Page 1 of 2  
Date 6/1/06

ROUTE IL 72 DESCRIPTION P92-073-06 Box culvert, IL 72 over ditch, .1 m. W. of Goldmine Road LOGGED BY W. Garza

SECTION LOCATION SEC. TWP. RNG.

COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diederich Automatic

STRUCT. NO.	BORING NO.	Station	Offset	Ground Surface Elev.	Elev. (ft)	D (ft)	B (in)	U (tsf)	M (P)	S	T	Surface Water Elev.	Elev. (ft)	D (ft)	B (in)	U (tsf)	M (P)	S	T	
008-1003	B-2f	13' W. of Culv. CL	10.00ft N CL	99.0								92.0								
													76.5							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

DESIGNED	ASP	200
CHECKED	WSP	EXAMINED
DRAWN	BGC	ENGINEER OF BRIDGE DESIGN
CHECKED	ASP	PASSED
		ENGINEER OF BRIDGES AND STRUCTURES



Illinois Department of Transportation  
Division of Highways  
IDOT

**SOIL BORING LOG**

Page 2 of 2  
Date 6/1/06

ROUTE IL 72 DESCRIPTION P92-073-06 Box culvert, IL 72 over ditch, .1 m. W. of Goldmine Road LOGGED BY W. Garza

SECTION LOCATION SEC. TWP. RNG.

COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diederich Automatic

STRUCT. NO.	BORING NO.	Station	Offset	Ground Surface Elev.	Elev. (ft)	D (ft)	B (in)	U (tsf)	M (P)	S	T	Surface Water Elev.	Elev. (ft)	D (ft)	B (in)	U (tsf)	M (P)	S	T	
008-1003	B-2f	13' W. of Culv. CL	10.00ft N CL	99.0								92.0								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

**BORING LOG**  
F.A.P. 545 (IL. RTE. 72)  
SECTION 114T-1  
CARROLL COUNTY  
STATION 313+79.80  
STRUCTURE NO. 008-1092

BENCH MARK: TBM 403  
 STA. 317+30.56, 25.89' LT., EL. 913.497  
 CUT SQUARE ON HEADWALL IN NW  
 QUAD IL 72 & GOLD MINE ROAD, WEST  
 OF CULVERT.

EXISTING STRUCTURE:  
 SINGLE 8'-0" X 5'-0" X 43'-0" CONCRETE BOX CULVERT.

NO SALVAGE.

PROPOSED IMPROVEMENTS:  
 EXISTING STRUCTURE TO BE REMOVED AND REPLACED  
 WITH A 2 CELL - 7'-0" X 4'-0" PRECAST CONCRETE BOX  
 CULVERT WITH CAST-IN-PLACE END SECTIONS.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
F.A.P. 545	114T-1	CARROLL	118	38
FED. ROAD DIST. NO. 2		ILLINOIS	FED. AID PROJECT-	

Contract # 64C31

DESIGN SPECIFICATIONS

AASHTO 2002 SPECIFICATIONS

LOADING HS20-44

ALLOW 50#/SQ. FT. FOR FUTURE WEARING SURFACE.

DESIGN STRESSES

FIELD UNITS

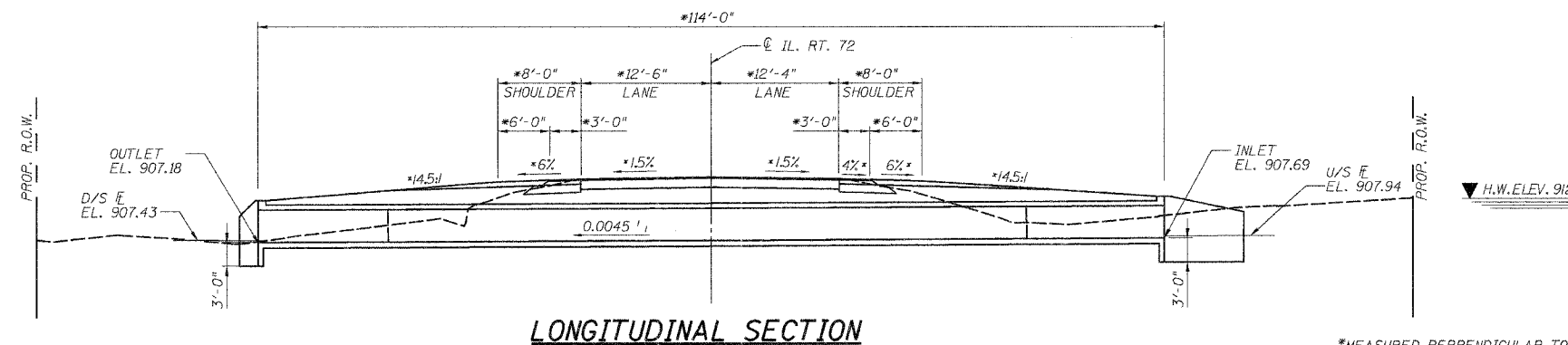
$f'_c = 3,500$  PSI  
 $f_y = 60,000$  PSI (REINFORCEMENT)

PRECAST UNITS

$f'_c = 5,000$  PSI  
 $f_y = 60,000$  PSI (REINFORCEMENT)

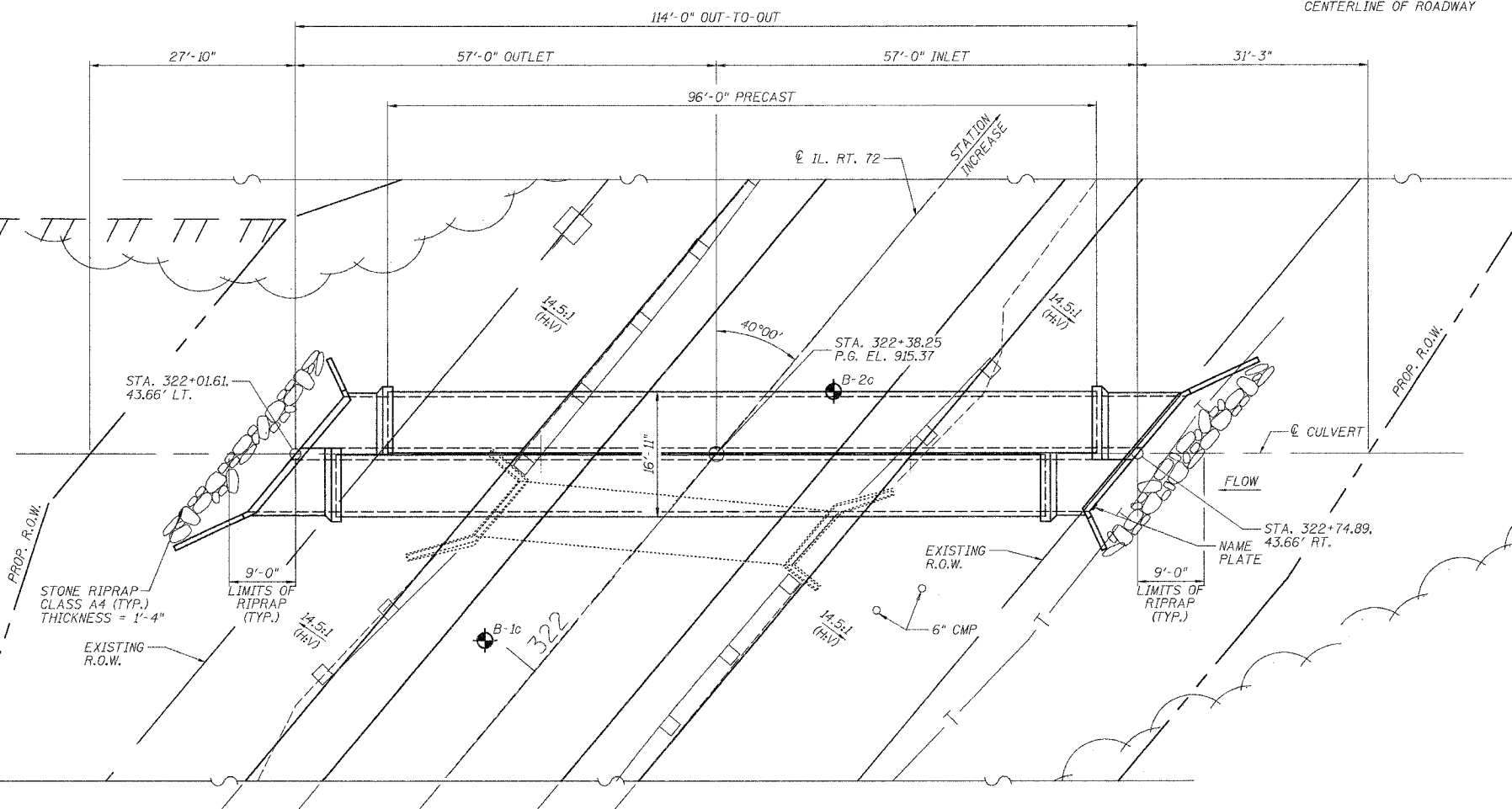
GENERAL NOTES

- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GR 60 (IL MODIFIED). SEE SPECIAL PROVISION.
- CAST-IN-PLACE BARREL SHALL BE POURED MONOLITHICALLY WITH WING WALLS.
- EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER.
- CULVERT FLOWS MUST BE MAINTAINED THROUGHOUT THE PROJECT. NORMAL FLOW SHALL BE ALLOWED TO PASS AT THE RATE IT ENTERS THE JOBSITE. HIGH FLOWS SHALL BE ALLOWED PASS TO WITHOUT CAUSING DAMAGE TO UPSTREAM PROPERTIES.
- THE CONTRACTOR SHALL CLEAN OUT CULVERT STREAM FLOW TO THE RIGHT OF WAY LINES. THE COST SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "PRECAST CONCRETE BOX CULVERT 7'x4'".
- PLACEMENT AND COMPACTION OF THE BACKFILL FOR CULVERT SHALL CONFORM TO SECTION 502.10 OF THE STANDARD SPECIFICATIONS. THE MATERIAL SHALL CONFORM TO SECTION 1004.05 OF THE STANDARD SPECIFICATIONS FOR COARSE AGGREGATE FOR TRENCH BACKFILL, AND SHALL BE COMPACTED TO MINIMUM OF 95% OF THE STANDARD LABORATORY DENSITY. THE ENTIRE EXCAVATION, WITHIN 2 FEET OUTSIDE OF EACH SHOULDER, SHALL BE BACKFILLED WITH TRENCH BACKFILL MATERIAL TO THE BOTTOM OF THE PROPOSED SUBGRADE. THIS TRENCH BACKFILL MATERIAL WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE CLASS OF CONCRETE INVOLVED OR OTHER UNIT PRICE ITEM OF THE WORK FOR WHICH IT IS REQUIRED.
- PRECAST CONCRETE BOX CULVERT SLAB & WALL THICKNESS TAKEN FROM AASHTO MATERIAL SPECIFICATIONS. IF FABRICATOR CHOOSES TO ALTER DIMENSIONS, IT MUST BE APPROVED BY THE ENGINEER AND THE CALCULATIONS SHALL BE PREPARED AND SEALED BY AN ILLINOIS LICENSED STRUCTURAL ENGINEER.
- STRUCTURE EXCAVATION AND GRADING AROUND ENDS OF CULVERT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "PRECAST CONCRETE BOX CULVERT 7'x4'".
- THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M273 (DESIGN FILL HEIGHT = 2'-0").
- THE NEW NUMBER FOR THIS STRUCTURE WILL BE 008-1091.



LONGITUDINAL SECTION

\*MEASURED PERPENDICULAR TO CENTERLINE OF ROADWAY



PLAN

STATION 322+38.25  
 BUILT 200. BY  
 STATE OF ILLINOIS  
 IL 72 SECT. 114T-1  
 LOADING HS20  
 STR. NO. 008-1091

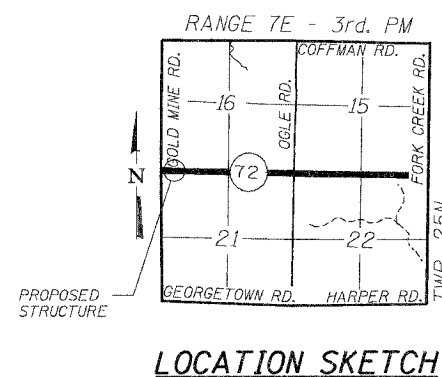
NAME PLATE

NOTE: SEE STANDARD DRAWING 515001  
 FOR NAME PLATE DETAILS.

DESIGNED	ASP
CHECKED	WSP
DRAWN	BEM
CHECKED	ASP

EXAMINED	200
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

WATERWAY INFORMATION				
FLOOD	FREQ. YR.	DISCHARGE C.F.S.	HEADWATER ELEVATION	
			EXISTING	PROPOSED
TEN-YEAR	10	150	912.26	911.64
DESIGN	50	309	914.16	912.55
BASE	100	410	914.30	913.29
EX OVT	33	252	913.94	
PR OVT	145	475		913.94



LOCATION SKETCH

TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE BOX CULVERTS	CU. YD.	36.0
PRECAST CONCRETE BOX CULVERT 7' x 4'	FOOT	192
REINFORCEMENT BARS	POUND	5,253
REMOVAL OF EXISTING STRUCTURE NO. 3	EACH	1
STONE RIPRAP, CLASS A4	SQ. YD.	50
FILTER FABRIC	SQ. YD.	50
NAME PLATES	EACH	1

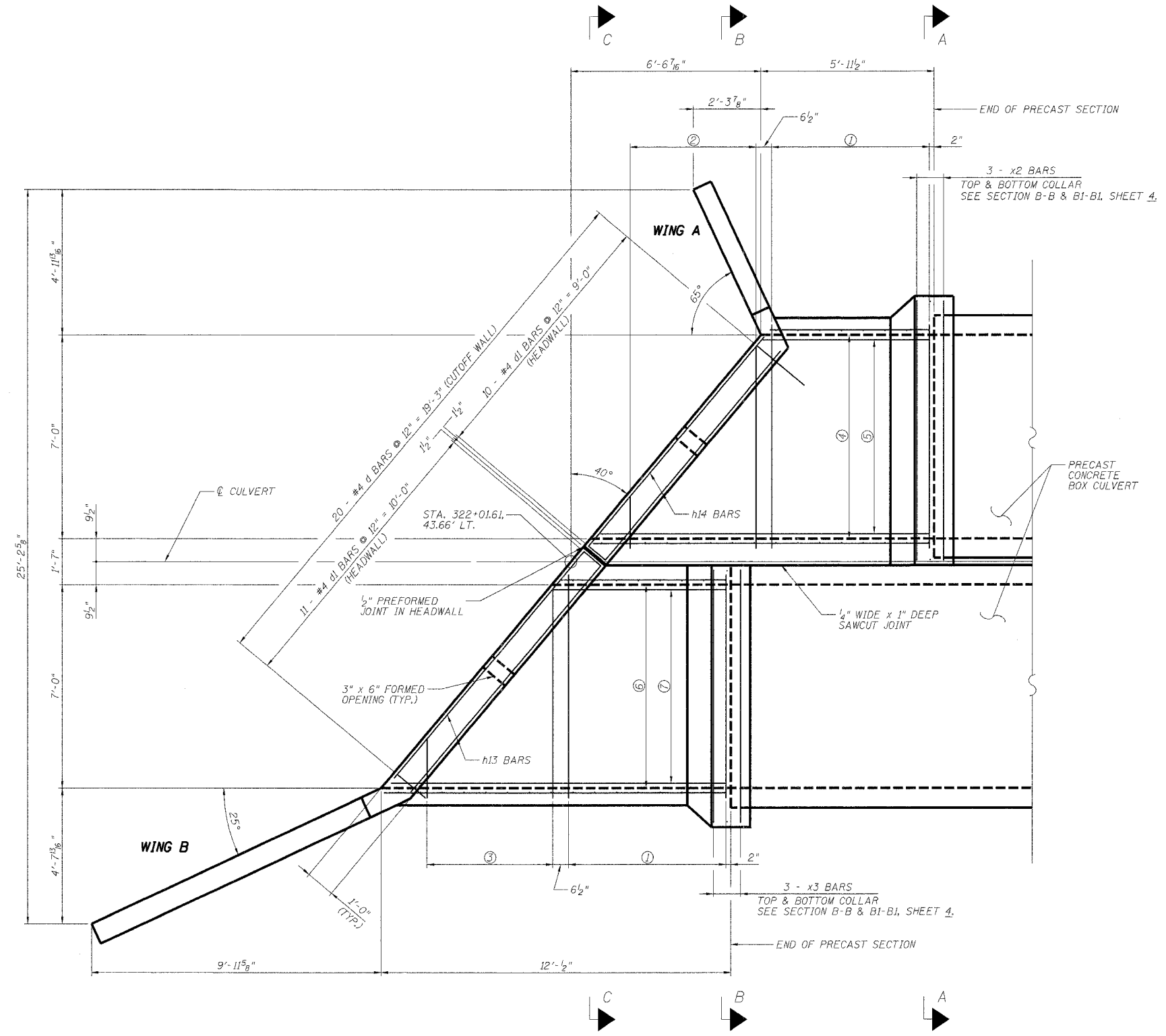


Wayne A. Treacy  
 11-30-00  
 GENERAL PLAN & ELEVATION  
 F.A.P. 545 (IL. RTE. 72)  
 SECTION 114T-1  
 CARROLL COUNTY  
 STATION 322+38.25  
 STRUCTURE NO. 008-1091

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET	SHEET NO. 02
F.A.P. 545	114T-1	CARROLL	118	39	11 SHEETS
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT			

Contract # 64C31



PLAN

LEGEND

T.T. = TOP OF TOP SLAB  
B.T. = BOTTOM OF TOP SLAB  
T.B. = TOP OF BOTTOM SLAB  
B.B. = BOTTOM OF BOTTOM SLAB

- NOTE:
- ① 11 - #7 @ 6 1/2" = 5'-5" (B.T. & T.B.)  
3 - #4 @ 3 BARS @ 24" = 4'-0" (B.B.)
  - ② 9 - #7 @ 6 1/2" = 4'-4" (B.T. & T.B.)  
3 - #4 @ 4 BARS @ 24" = 4'-0" (B.B.)
  - ③ 9 - #7 @ 6 1/2" = 4'-4" (B.T. & T.B.)  
3 - #4 @ 5 BARS @ 24" = 4'-0" (B.B.)
  - ④ 7 - #6 @ 14" = 7'-0" (B.T.)
  - ⑤ 6 - #5 @ 16" = 6'-8" (B.B. & T.B.)
  - ⑥ 7 - #6 @ 14" = 7'-0" (B.T.)
  - ⑦ 6 - #5 @ 16" = 6'-8" (B.B. & T.B.)

DESIGNED - ASP	200
CHECKED - WSP	EXAMINED
DRAWN - BGC	PASSED
CHECKED - ASP	ENGINEER OF BRIDGES AND STRUCTURES

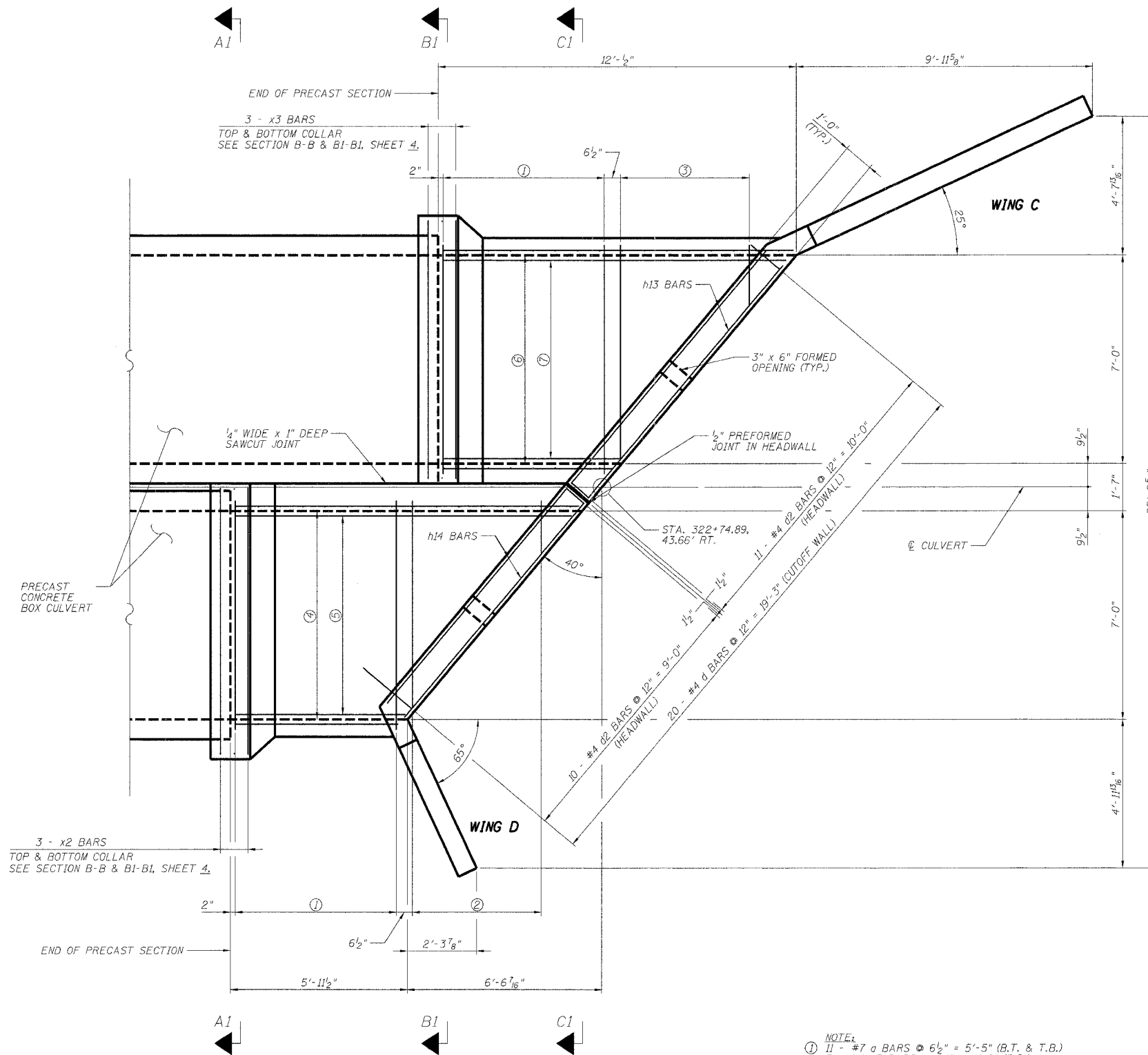
**OUTLET END SECTION**  
**F.A.P. 545 (IL. RTE. 72)**  
**SECTION 114T-1**  
**CARROLL COUNTY**  
**STATION 322+38.25**  
**STRUCTURE NO. 008-1091**



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.	SHEET NO. 03
F.A.P. 545	114T-1	CARROLL	118	40	11 SHEETS
FED. ROAD DIST. NO. 2	DISTRICT	FED. AID PROJECT			

Contract # 64C31



PLAN

- NOTE:
- ① 11 - #7 a BARS @ 6 1/2" = 5'-5" (B.T. & T.B.)  
3 - #4 a3 BARS @ 24" = 4'-0" (B.B.)
  - ② 9 - #7 a1 BARS @ 6 1/2" = 4'-4" (B.T. & T.B.)  
3 - #4 a4 BARS @ 24" = 4'-0" (B.B.)
  - ③ 9 - #7 a2 BARS @ 6 1/2" = 4'-4" (B.T. & T.B.)  
3 - #4 a5 BARS @ 24" = 4'-0" (B.B.)
  - ④ 7 - #6 h BARS @ 14" = 7'-0" (B.T.)
  - ⑤ 6 - #5 h10 BARS @ 16" = 6'-8" (B.B. & T.B.)
  - ⑥ 7 - #6 h1 BARS @ 14" = 7'-0" (B.T.)
  - ⑦ 6 - #5 h10 BARS @ 16" = 6'-8" (B.B. & T.B.)

LEGEND

T.T. = TOP OF TOP SLAB  
B.T. = BOTTOM OF TOP SLAB  
T.B. = TOP OF BOTTOM SLAB  
B.B. = BOTTOM OF BOTTOM SLAB

DESIGNED -	ASP
CHECKED -	WSP
DRAWN -	BGC
CHECKED -	ASP

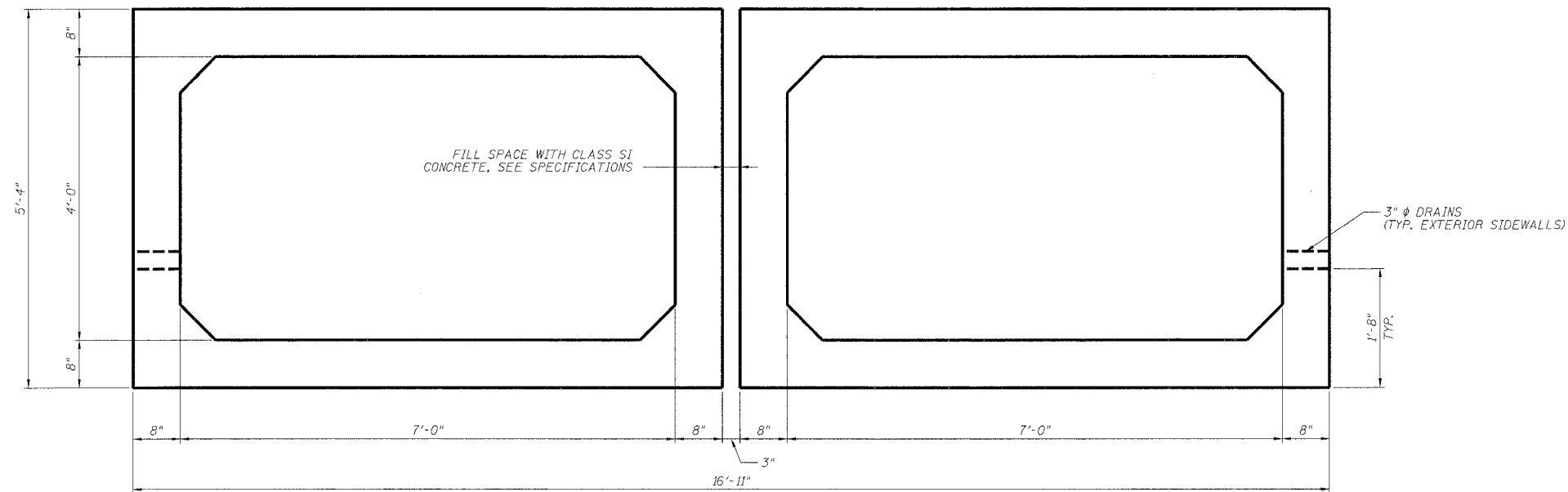
EXAMINED	200
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

**INLET END SECTION**  
**F.A.P. 545 (IL. RTE. 72)**  
**SECTION 114T-1**  
**CARROLL COUNTY**  
**STATION 322+38.25**  
**STRUCTURE NO. 008-1091**

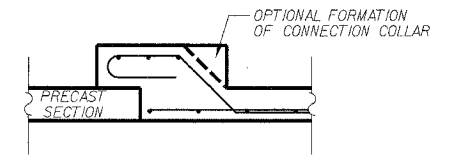
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 04
F.A.P. 545	114T-1	CARROLL	118	41	11 SHEETS
FED. ROAD DIST. NO. 0	ILLINOIS	FED. AID PROJECT			

Contract # 64031

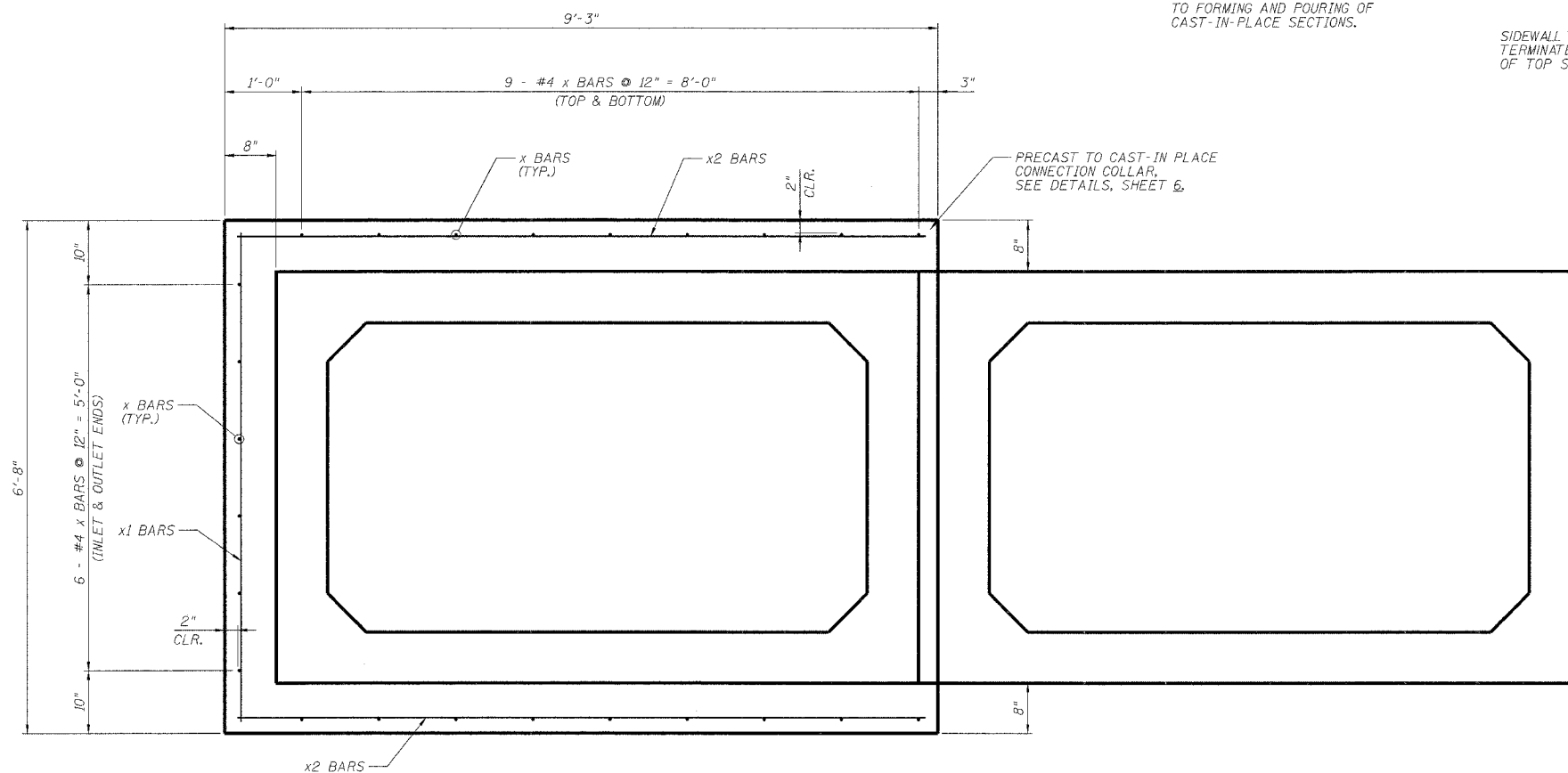


PRECAST TYPICAL SECTION



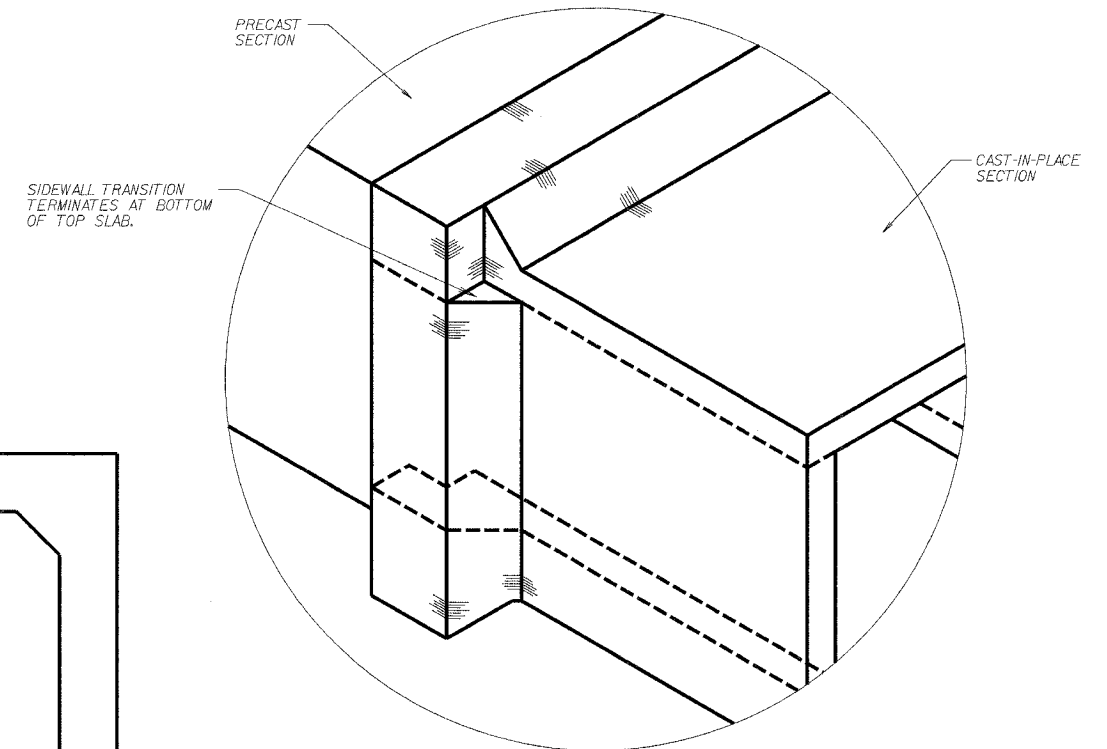
OPTIONAL PRECAST TO CAST-IN-PLACE CONNECTION COLLAR

NOTE:  
ADDITIONAL CONCRETE USED FOR THE  
OPTIONAL COLLAR FORMATION WILL BE  
PROVIDED AT THE CONTRACTOR'S EXPENSE.



SECTION A-A & A1-A1

NOTE:  
CLASS SI CONCRETE TO BE POURED  
BETWEEN PRECAST SECTIONS PRIOR  
TO FORMING AND POURING OF  
CAST-IN-PLACE SECTIONS.



ISOMETRIC VIEW OF CONNECTION COLLAR

DESIGNED	ASP
CHECKED	WSP
DRAWN	BGC
CHECKED	ASP

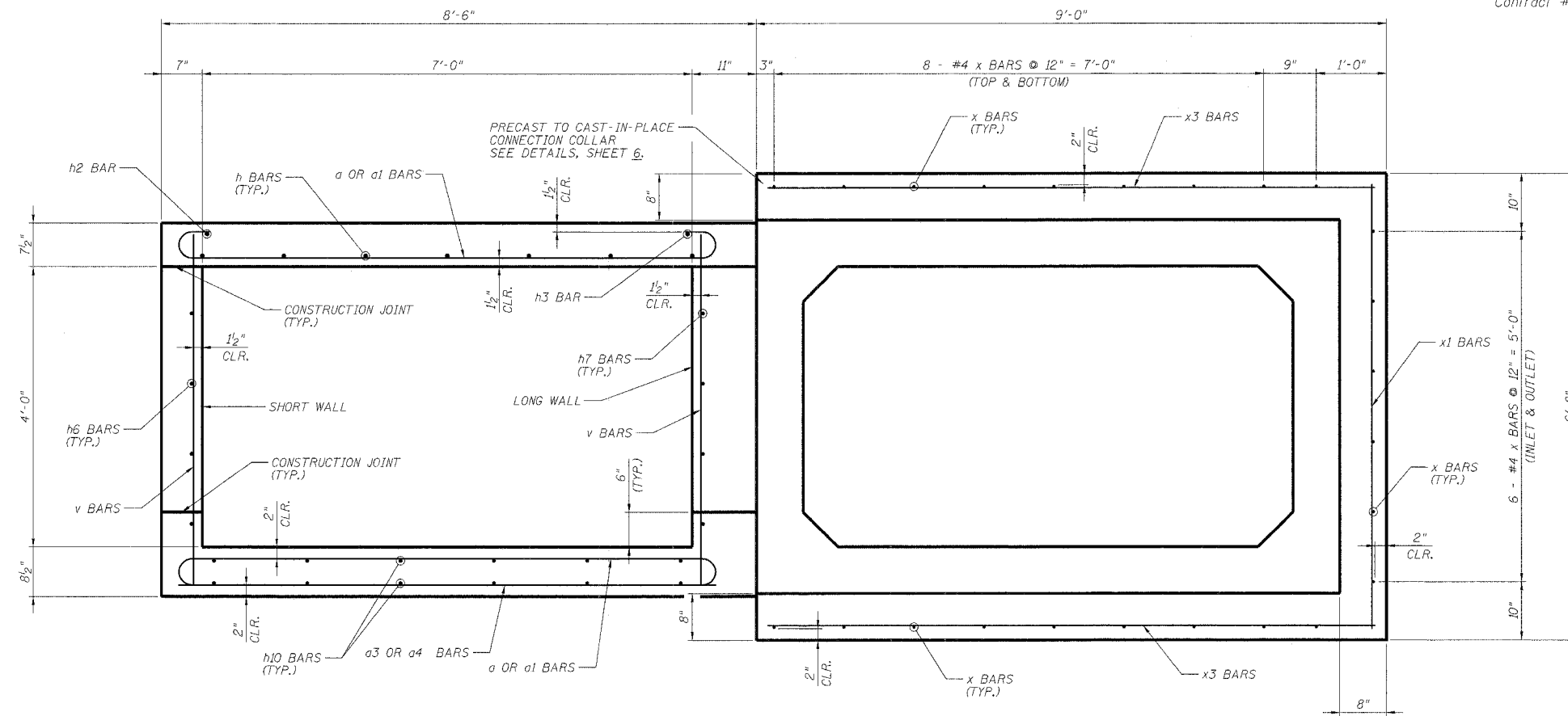
EXAMINED	200
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

TYPICAL SECTION  
F.A.P. 545 (IL. RTE. 72)  
SECTION 114T-1  
CARROLL COUNTY  
STATION 322+38.25  
STRUCTURE NO. 008-1091

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

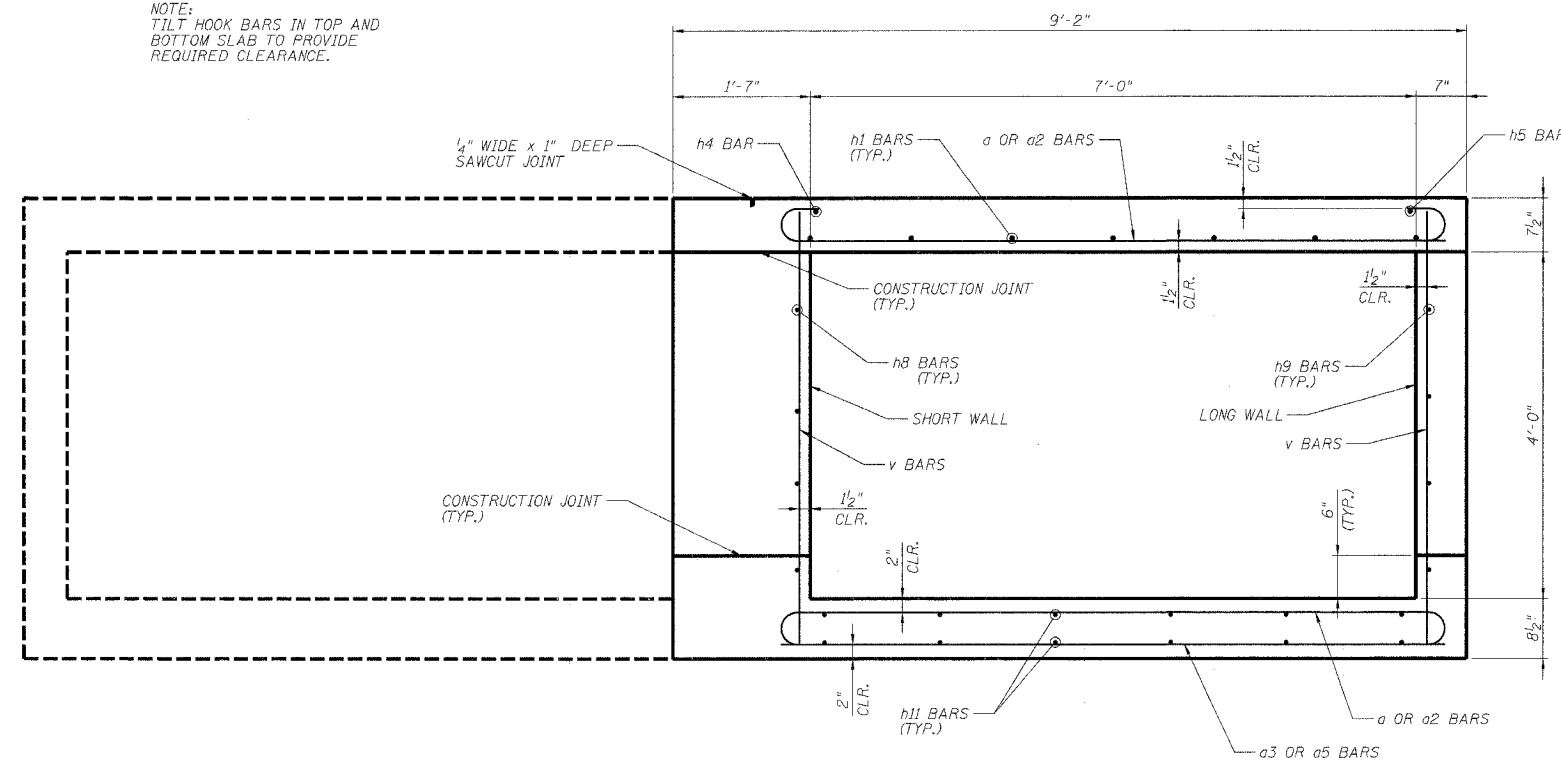
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 05 11 SHEETS
F.A.P. 545	114T-1	CARROLL	118	42	
FED. ROAD DIST. NO. 2		ILLINOIS	FED. AID PROJECT		

Contract # 64C31



**SECTION B-B & BI-BI**

NOTE:  
TILT HOOK BARS IN TOP AND  
BOTTOM SLAB TO PROVIDE  
REQUIRED CLEARANCE.



**SECTION C-C & CI-CI**

NOTE:  
TILT HOOK BARS IN TOP AND  
BOTTOM SLAB TO PROVIDE  
REQUIRED CLEARANCE.

DESIGNED -	ASP
CHECKED -	WSP
DRAWN -	BGC
CHECKED -	ASP

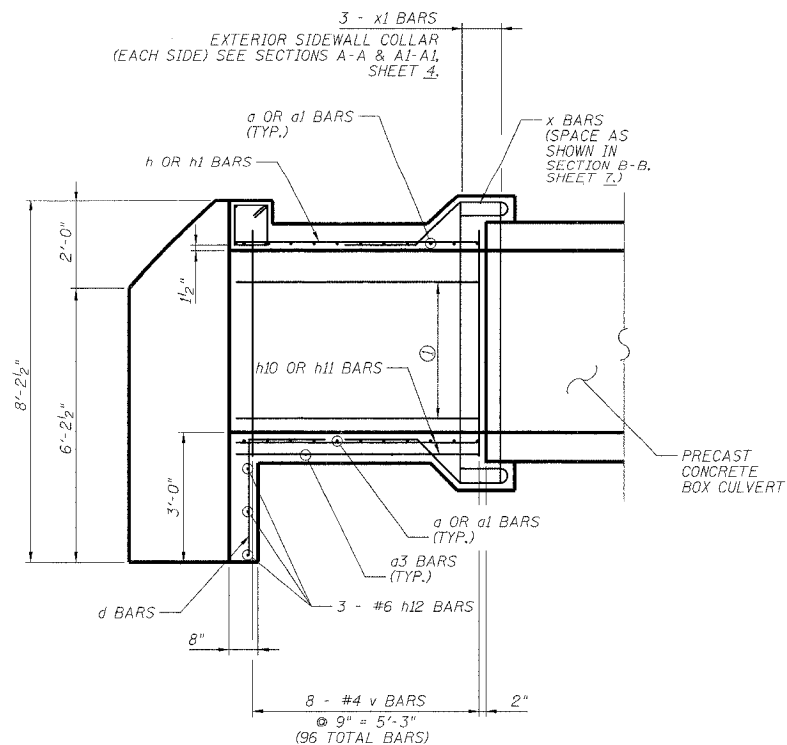
EXAMINED	200
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

**TYPICAL SECTION**  
**F.A.P. 545 (IL. RTE. 72)**  
**SECTION 114T-1**  
**CARROLL COUNTY**  
**STATION 322+38.25**  
**STRUCTURE NO. 008-1091**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

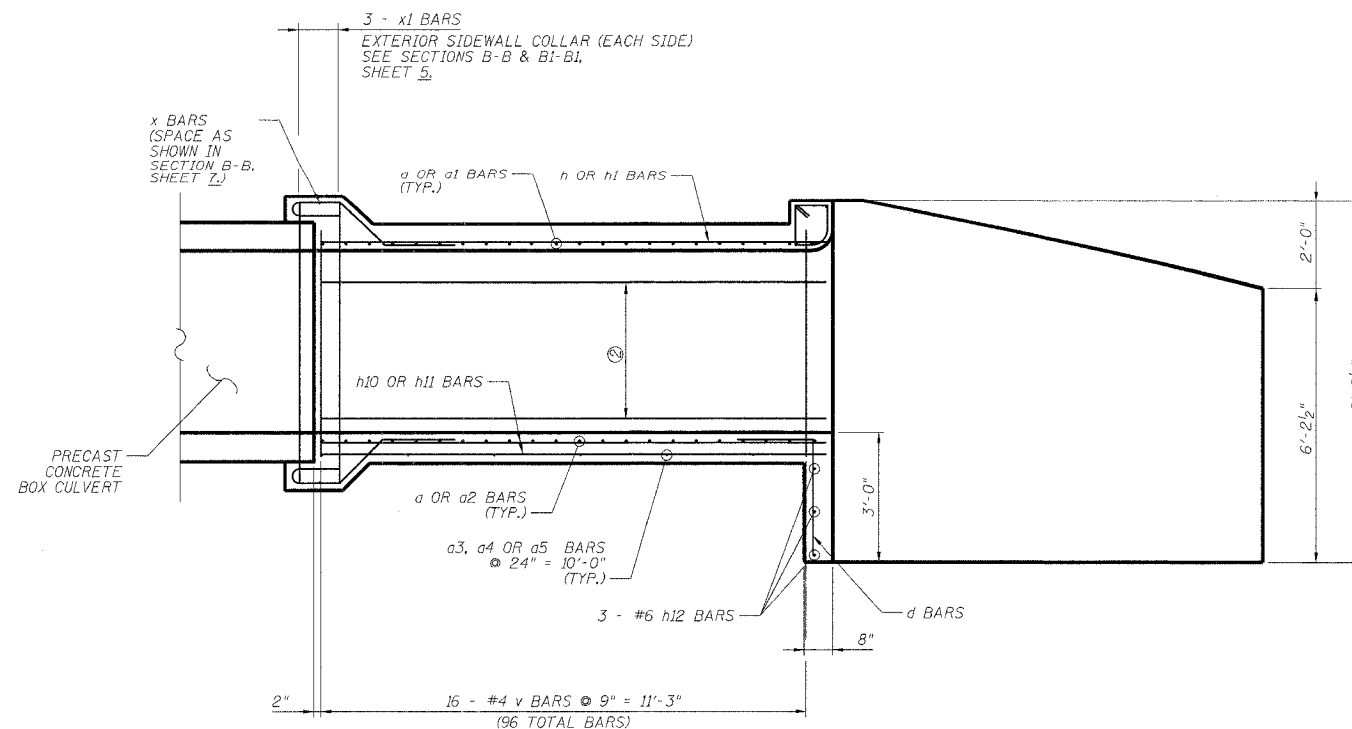
ROUTE NO.	SECTION	COUNTY	STATION	SHEET	SHEET NO.
F.A.P. 545	114T-1	CARROLL	118	43	06
FED. ROAD DIST. NO. 2		ILLINOIS	FED. AID PROJECT-		

Contract # 64C31



**SHORT WALL**

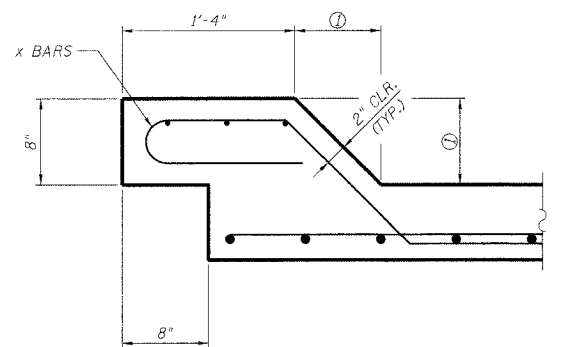
① 4 - #5 h6 OR h8 BARS @ 12" = 3'-0"  
(16 TOTAL BARS EACH)



**LONG WALL**

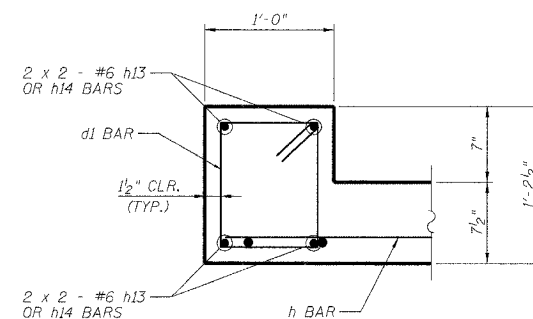
② 4 - #5 h7 OR h9 BARS @ 12" = 3'-0"  
(16 TOTAL BARS EACH)

**ELEVATION**

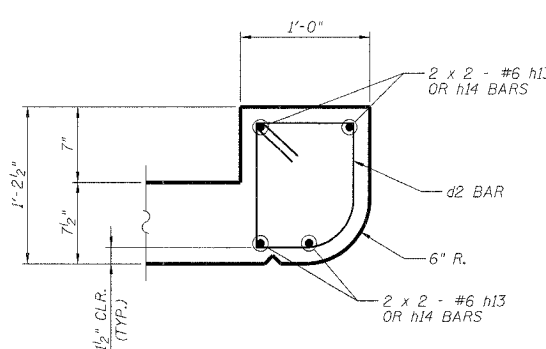


**PRECAST TO CAST-IN-PLACE  
CONNECTION COLLAR**

① TOP SLAB = 8 1/2"  
SIDEWALLS = 9"  
BOTTOM SLAB = 7 1/2"



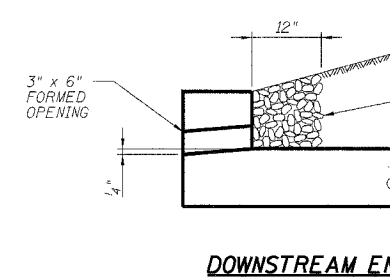
**DOWNSTREAM END**



**UPSTREAM END**

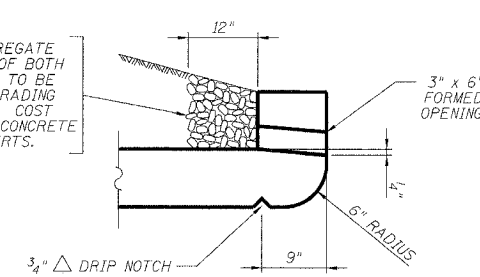
**HEADWALL DETAILS**

NOTE:  
BARS INDICATED THUS 2 x 3-#6 ETC.  
INDICATES 2 LINES OF BARS WITH 3  
LENGTHS PER LINE.



**DOWNSTREAM END**

COARSE AGGREGATE  
FULL LENGTH OF BOTH  
HEADWALLS. TO BE  
PLACED BY GRADING  
CONTRACTOR. COST  
INCLUDED WITH CONCRETE  
BOX CULVERTS.



**UPSTREAM END**

**DRAIN DETAILS**

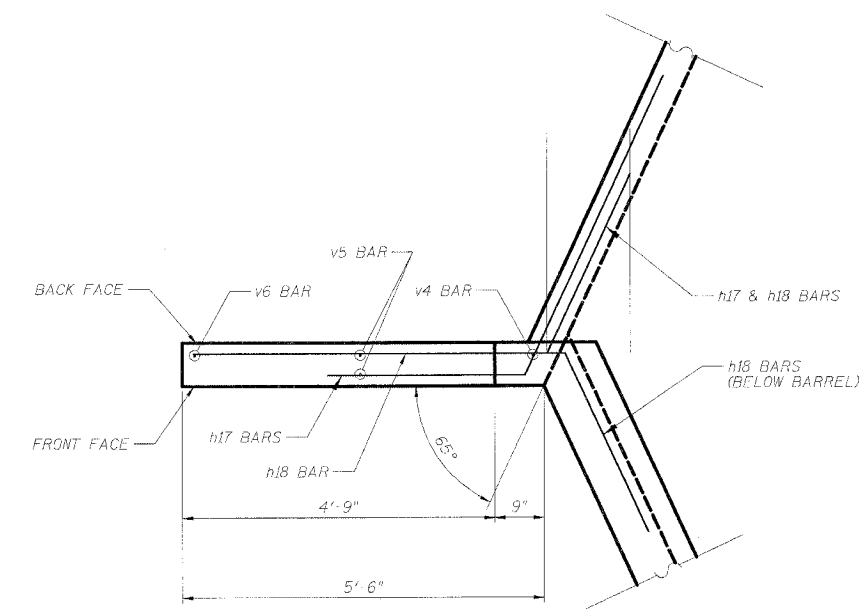
DESIGNED -	ASP
CHECKED -	WSP
DRAWN -	BGC
CHECKED -	ASP

EXAMINED	200
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

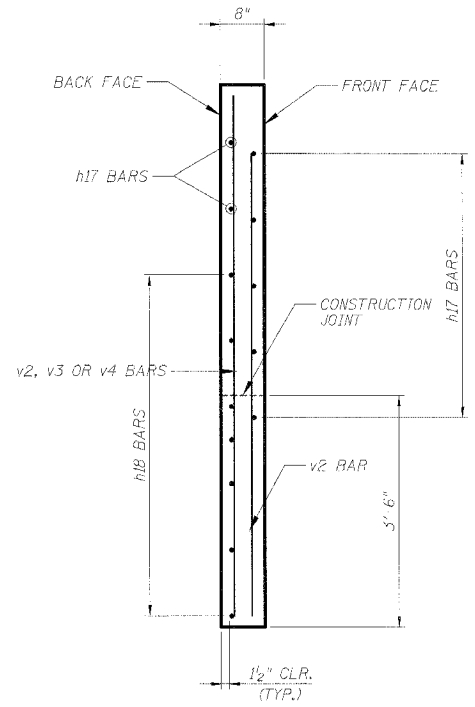
**DETAILS**  
F.A.P. 545 (IL. RTE. 72)  
SECTION 114T-1  
CARROLL COUNTY  
STATION 322+38.25  
STRUCTURE NO. 008-1091

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

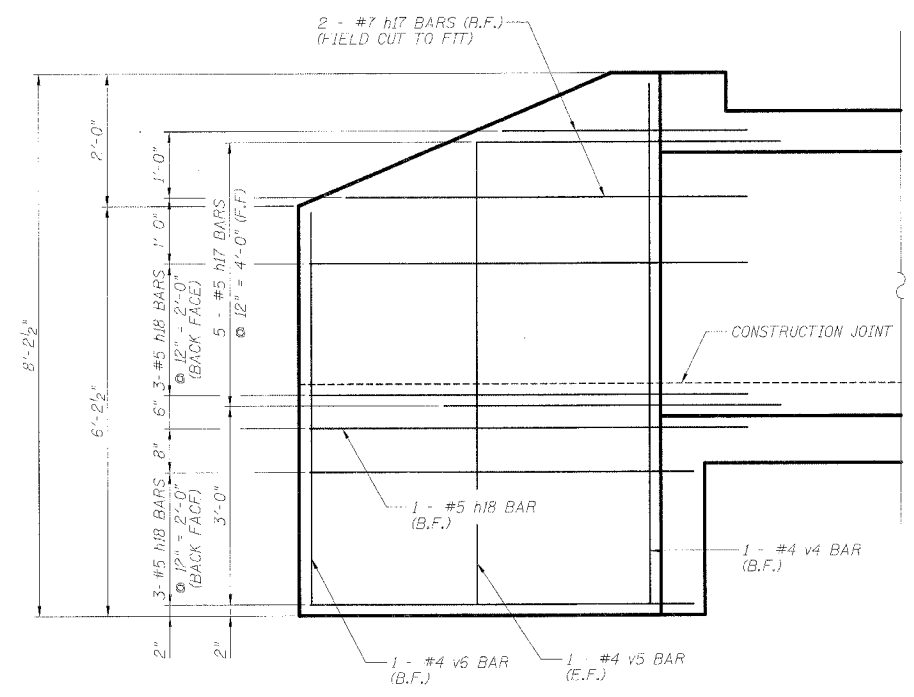
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 07 11 SHEETS
F.A.P. 545	114T-1	CARROLL	118	11	
FED. ROAD DIST. NO. 2	ALLIANCE	FED. AID PROJECT	Contract # 64C31		



**WINGS A & D PLAN**



**WINGS A & D TYPICAL SECTION**



**WINGS A & D ELEVATION**

**LEGEND**  
B.F. = BACK FACE  
F.F. = FRONT FACE

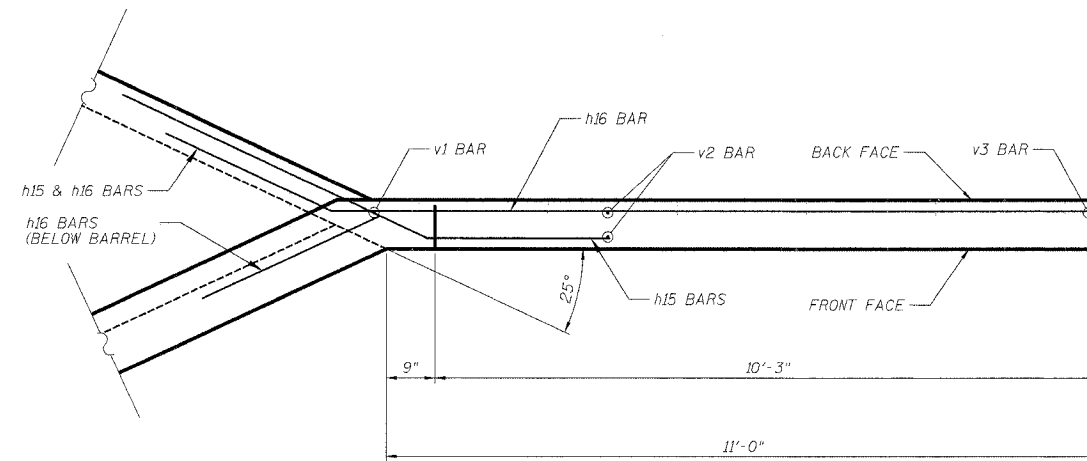
DESIGNED	ASP	200
CHECKED	WSP	EXAMINED
DRAWN	BGC	PASSED
CHECKED	ASP	ENGINEER OF BRIDGE DESIGN
		ENGINEER OF DIVISION AND STRUCTURES

**WINGS A & D**  
**F.A.P. 545 (IL. RTE. 72)**  
**SECTION 114T-1**  
**CARROLL COUNTY**  
**STATION 322+38.25**  
**STRUCTURE NO. 008-1091**

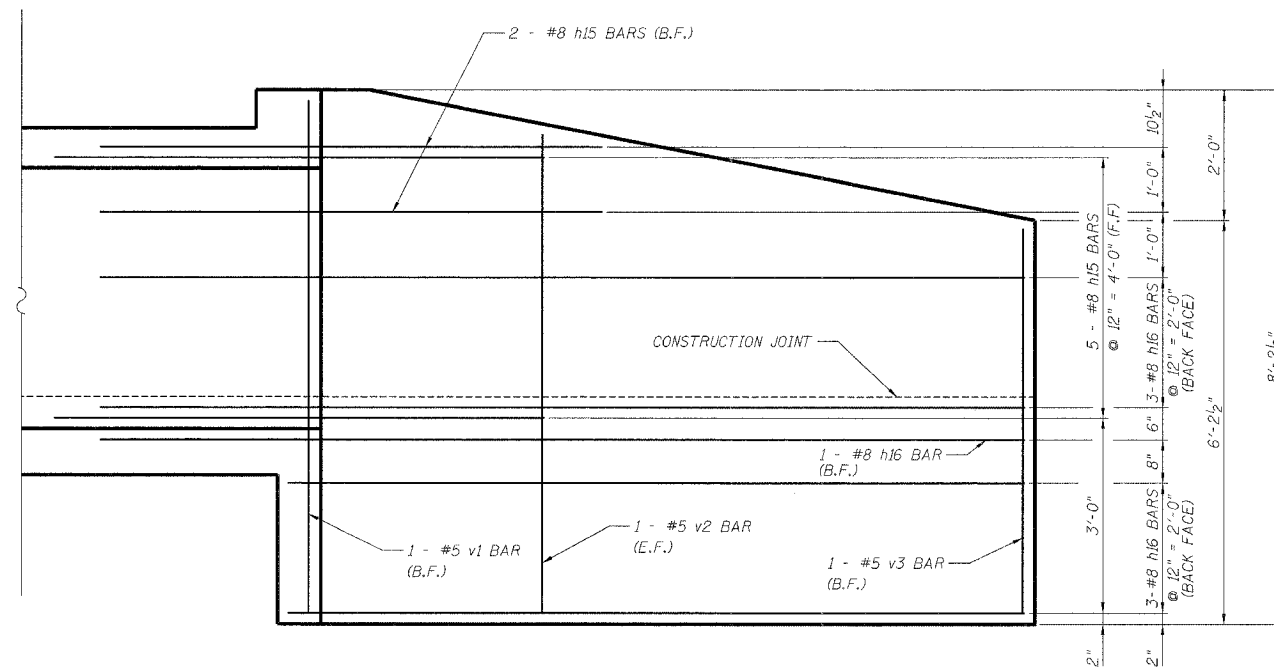
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET	SHEET NO.
F.A.P. 545	114T-1	CARROLL	118	45	11 SHEETS
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT			

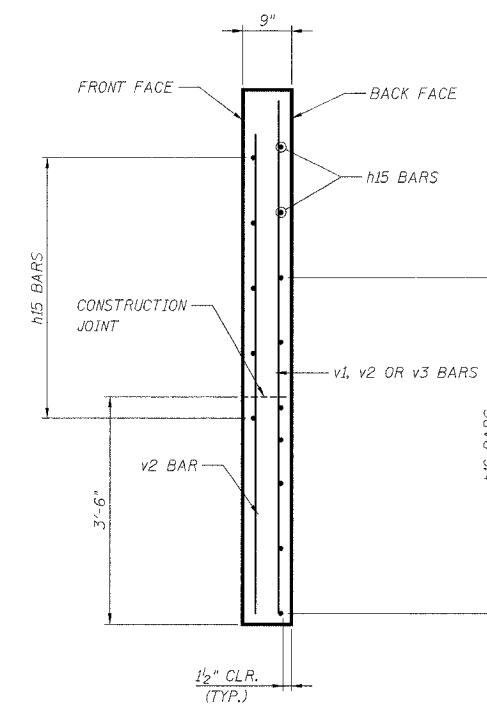
Contract # 64C31



**WINGS B & C PLAN**



**WINGS B & C ELEVATION**



**WINGS B & C TYPICAL SECTION**

**LEGEND**  
B.F. = BACK FACE  
F.F. = FRONT FACE

DESIGNED -	ASP
CHECKED -	WSP
DRAWN -	BGC
CHECKED -	ASP

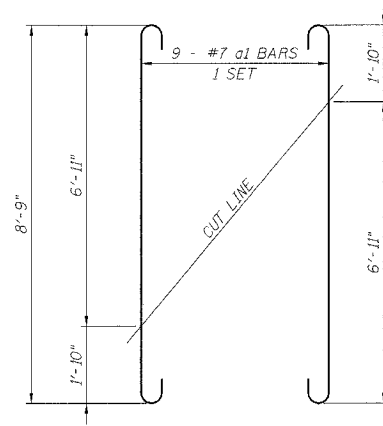
EXAMINED	200
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

**WINGS B & C**  
**F.A.P. 545 (IL. RTE. 72)**  
**SECTION 114T-1**  
**CARROLL COUNTY**  
**STATION 322+38.25**  
**STRUCTURE NO. 008-1091**

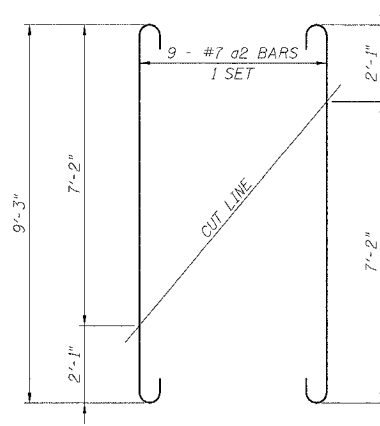
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	POST MILES	SHEET	SHEET NO. 09
F.A.P. 545	114T-1	CARROLL	118	46	11 SHEETS
FED. ROAD DIST. NO. 2	TITLE/NOTE	FED. AID PROJECT			

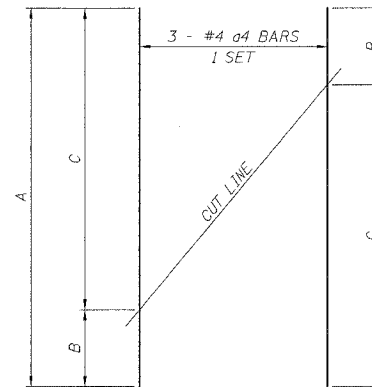
Contract # 64C31



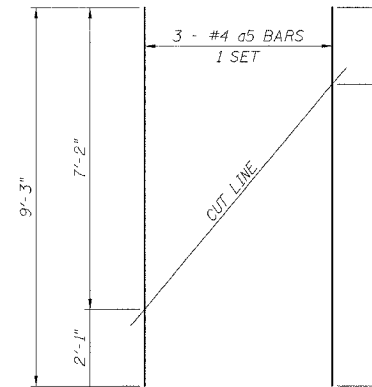
**BARS a1**



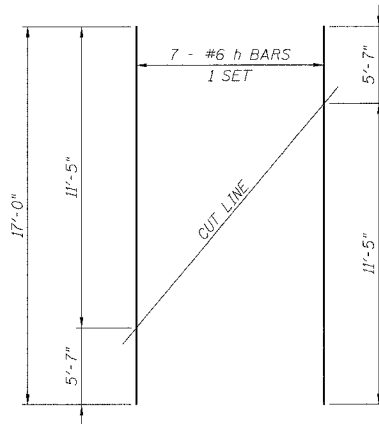
**BARS a2**



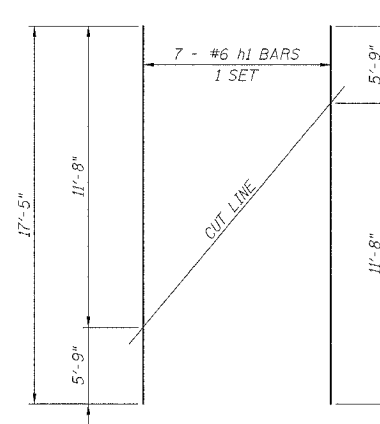
**BARS a4**



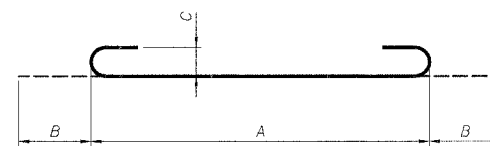
**BARS a5**



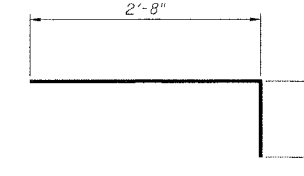
**BARS h**



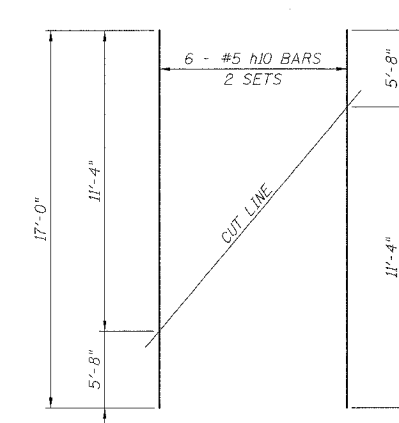
**BARS h1**



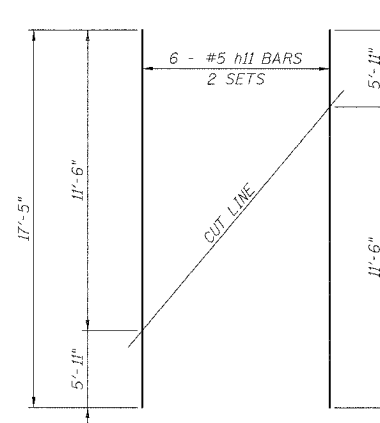
**BARS a, a1 & a2**



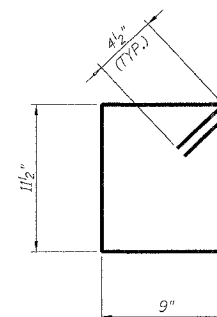
**BAR d**



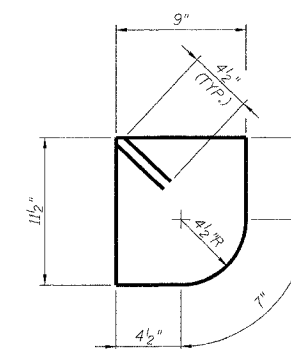
**BARS h10**



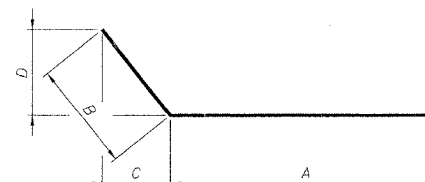
**BARS h11**



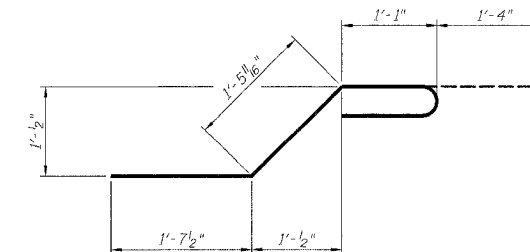
**BAR d1**



**BAR d2**



**BARS h15 THRU h18**



**BAR x**

**\* CULVERT  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a	88	7	9'-4"	U
a1	18	7	10'-5"	U
a2	18	7	10'-11"	U
a3	12	4	7'-8"	U
a4	3	4	8'-9"	U
a5	3	4	9'-3"	U
d	40	4	4'-5"	L
d1	21	4	4'-2"	L
d2	21	4	4'-0"	L
h	7	6	17'-0"	U
h1	7	6	17'-5"	U
h2	2	6	5'-7"	U
h3	2	6	11'-5"	U
h4	2	6	5'-9"	U
h5	2	6	11'-8"	U
h6	8	5	5'-5"	U
h7	8	5	11'-6"	U
h8	8	5	5'-8"	U
h9	8	5	11'-9"	U
h10	12	5	17'-0"	U
h11	12	5	17'-5"	U
h12	6	6	20'-0"	U
h13	8	6	10'-1"	U
h14	8	6	9'-4"	U
h15	7	8	8'-0"	U
h16	7	8	14'-6"	U
h17	7	5	8'-0"	U
h18	7	5	8'-8"	U
v	96	4	5'-0"	U
v1	2	5	7'-10"	U
v2	4	5	7'-4"	U
v3	2	5	5'-11"	U
v4	2	4	7'-10"	U
v5	4	4	7'-0"	U
v6	2	4	5'-11"	U
x	96	4	5'-5"	U
x1	12	4	6'-4"	U
x2	12	4	8'-11"	U
x3	12	4	8'-8"	U
Concrete Box Culverts			Cu. Yd.	36.0
Reinforcement Bars			Pound	5,253

\* BILL OF MATERIAL IS THE TOTAL FOR BOTH END SECTIONS.

**BAR BENDING DIAGRAMS**

Bar	A		B		C		D	
	Ft.	In.	Ft.	In.	Ft.	In.	Ft.	In.
a	7	8	0	10	0	7	-	-
a1	8	9	0	10	0	7	-	-
a2	9	3	0	10	0	7	-	-
h15	5	0	3	0	2	8 1/2	1	3
h16	11	6	3	0	2	8 1/2	1	3
h17	5	0	3	0	1	3	2	8 1/2
h18	5	8	3	0	1	3	2	8 1/2

**FIELD CUTTING DIAGRAMS**

ORDER BARS FULL LENGTH. CUT AS SHOWN AND USE REMAINDER OF BARS IN OPPOSITE END.

DESIGNED - ASP	200
CHECKED - WSP	EXAMINED
DRAWN - BGC	ENGINEER OF BRIDGE DESIGN
CHECKED - ASP	PASSED
	ENGINEER OF BRIDGES AND STRUCTURES

**BARBILL & DETAILS**  
F.A.P. 545 (IL. RTE. 72)  
SECTION 114T-1  
CARROLL COUNTY  
STATION 322+38.25  
STRUCTURE NO. 008-1091

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



SOIL BORING LOG

Page 1 of 2

ROUTE IL 72 DESCRIPTION P92-073-06 Box culvert, IL 72 over ditch, .1 m. E. of Goldmine Road LOGGED BY J. Stratling  
SECTION LOCATION Shannon Twp. - 16 SW. SEC., TWP. 25N, RNG. 7E  
COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO.	BORING NO.	Station	Offset	Ground Surface Elev.	DEPTH (ft)	SOIL TYPE	UCS (tsf)	SPT (blows)	DEPTH (ft)	SOIL TYPE	UCS (tsf)	SPT (blows)
008-1080	B-1c	+28' W. of Culv. CL	11.00ft N CL	99.7		MEDIUM gray SILTY LOAM TILL with LIMESTONE			6			
					12				12		0.8	13
					10				10		P	
					97.20							
					2	MEDIUM black SILTY CLAY LOAM			2		0.8	26
					4				4		P	
					95.70							
					2	VERY STIFF gray SILTY CLAY LOAM TILL			6			15
					4				10		2.6	
					11				11		B	
					95.20							
					2	MEDIUM tan dirty SAND with GRAVEL			7			
					5				14			
					93.20				14			
					2	LOOSE tan medium SAND			3			
					3				2			
					4				6			
					90.70							
					3	MEDIUM tan weathered LIMESTONE with CHERT			7			
					4				7			
					4				8			
					88.20							
					3	Wash MEDIUM tan weathered LIMESTONE with SAND lens			16			
					4				13			
					5				14			
					85.70							
					1	Wash Same as above			8			
					1				7			
					3				7			
					92.70							
					4	MEDIUM brown SILTY CLAY with CHERT			4			21
					4				4		1.0	
					5				6		P	
					80.20							
					-20				-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 2 of 2

ROUTE IL 72 DESCRIPTION P92-073-06 Box culvert, IL 72 over ditch, .1 m. E. of Goldmine Road LOGGED BY J. Stratling  
SECTION LOCATION Shannon Twp. - 16 SW. SEC., TWP. 25N, RNG. 7E  
COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO.	BORING NO.	Station	Offset	Ground Surface Elev.	DEPTH (ft)	SOIL TYPE	UCS (tsf)	SPT (blows)	DEPTH (ft)	SOIL TYPE	UCS (tsf)	SPT (blows)
008-1080	B-1c	+28' W. of Culv. CL	11.00ft N CL	99.7		MEDIUM tan weathered LIMESTONE			6			
					9				9			
					14				14			
					58.20							
					-45							
					-50							
					-55							
					-60							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

DESIGNED	ASP
CHECKED	WSP
DRAWN	BGC
CHECKED	ASP

EXAMINED	200
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

**BORING LOG**  
**F.A.P. 545 (IL. RTE. 72)**  
**SECTION 114T-1**  
**CARROLL COUNTY**  
**STATION 322+38.25**  
**STRUCTURE NO. 008-1091**



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Page 1 of 2

**SOIL BORING LOG**

Date 5/31/06

ROUTE IL 72 DESCRIPTION P92-073-06 Box culvert, IL 72 over ditch .1 m. E. of Goldmine Road LOGGED BY J. Strating

SECTION \_\_\_\_\_ LOCATION Shannon Wp. - 16 SW, SEC., TWP. 25N, RNG. 7E

COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 008-1080 Station \_\_\_\_\_

BORING NO. B-2c Station +28 E of Cully CL  
Offset 10.00R S CL  
Ground Surface Elev. 100.0 ft

DEPTH (ft)	DESCRIPTION	U (tsf)	M (tsf)	DEPTH (ft)	U (tsf)	M (tsf)
0	Surface Water Elev. <u>92.8</u> ft			0		
0	Stream Bed Elev. <u>92.7</u> ft			0		
0	Groundwater Elev.: First Encounter <u>73.5</u> ft			0		
0	Upon Completion _____ ft			0		
0	After _____ Hrs.			0		
0	MEDIUM black SILTY CLAY LOAM	0.5 P	18	2		
0				4	1.9 B	15
97.50				8		
0	MEDIUM black SILTY CLAY LOAM	1.0 B	28	3		
96.00				5	1.7 B	28
0				11		
0	MEDIUM black SILTY LOAM	0.8 P	25	1		
93.50				3		
0				5		
0	STIFF tan/gray SILTY CLAY LOAM	1.3 B	26	3		
91.00				3		
0				7		
0	MEDIUM tan/gray SILTY LOAM	0.6 B	24	10		
88.50				12		
0				9		
0	MEDIUM tan SILTY LOAM TILL	0.7 B	13	7		
86.00				9		
0				9		
0	SOFT tan SILTY LOAM TILL with SAND lens	0.3 B	14	3		
83.50				7	1.5 P	29
0				8		
0	STIFF tan SILTY CLAY with CHERT	1.8 P	17	5		
81.00				7		
0				9		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

Page 2 of 2

**SOIL BORING LOG**

Date 5/31/06

ROUTE IL 72 DESCRIPTION P92-073-06 Box culvert, IL 72 over ditch .1 m. E. of Goldmine Road LOGGED BY J. Strating

SECTION \_\_\_\_\_ LOCATION Shannon Wp. - 16 SW, SEC., TWP. 25N, RNG. 7E

COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 008-1080 Station \_\_\_\_\_

BORING NO. B-2c Station +28 E of Cully CL  
Offset 10.00R S CL  
Ground Surface Elev. 100.0 ft

DEPTH (ft)	DESCRIPTION	U (tsf)	M (tsf)	DEPTH (ft)	U (tsf)	M (tsf)
0	Surface Water Elev. <u>92.8</u> ft			0		
0	Stream Bed Elev. <u>92.7</u> ft			0		
0	Groundwater Elev.: First Encounter <u>73.5</u> ft			0		
0	Upon Completion _____ ft			0		
0	After _____ Hrs.			0		
0	DENSE tan weathered LIMESTONE			14		
0				15		
0				16		
0	End of Boring					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

DESIGNED	ASP
CHECKED	WSP
DRAWN	BGC
CHECKED	ASP

EXAMINED	200
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

**BORING LOG**  
**F.A.P. 545 (IL. RTE. 72)**  
**SECTION 114T-1**  
**CARROLL COUNTY**  
**STATION 322+38.25**  
**STRUCTURE NO. 008-1091**

BENCH MARK: BM 454  
 STA. 53+62.30, 32.65 RT., EL. 961.413  
 TOP OF ROW MARKER SW QUAD OF IL 72  
 & FORK CREEK ROAD, EAST OF CULVERT

EXISTING STRUCTURE:  
 SINGLE 6'-0" X 4'-6" X 42'-0" CONCRETE BOX CULVERT.

NO SALVAGE.

PROPOSED IMPROVEMENTS:  
 EXISTING STRUCTURE TO BE REMOVED AND REPLACED  
 WITH A 2 CELL - 5'-0" X 3'-0" PRECAST CONCRETE BOX  
 CULVERT WITH CONCRETE BOX CULVERT END SECTIONS.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

STATION 38+85.17  
 BUILT 200. BY  
 STATE OF ILLINOIS  
 IL 72 SECT. 114T-1  
 LOADING HS20  
 STR. NO. 071-1150

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 545	114T-1	OGLE	118	49
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

Contract # 64C31

DESIGN SPECIFICATIONS

AASHTO 2002 SPECIFICATIONS

LOADING HS20-44

ALLOW 50#/SQ. FT. FOR FUTURE WEARING SURFACE.

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$  PSI  
 $f_y = 60,000$  PSI (REINFORCEMENT)

PRECAST UNITS

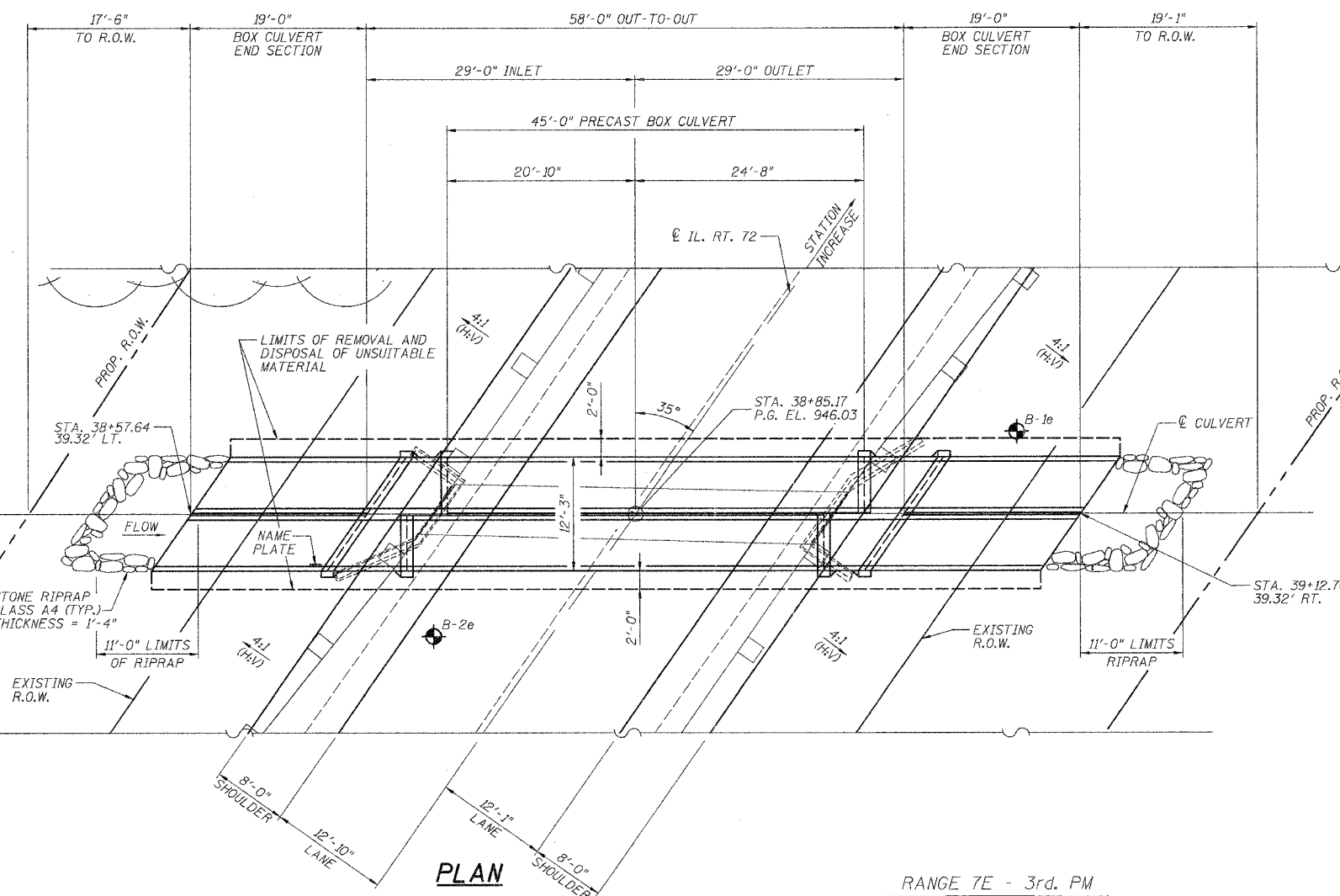
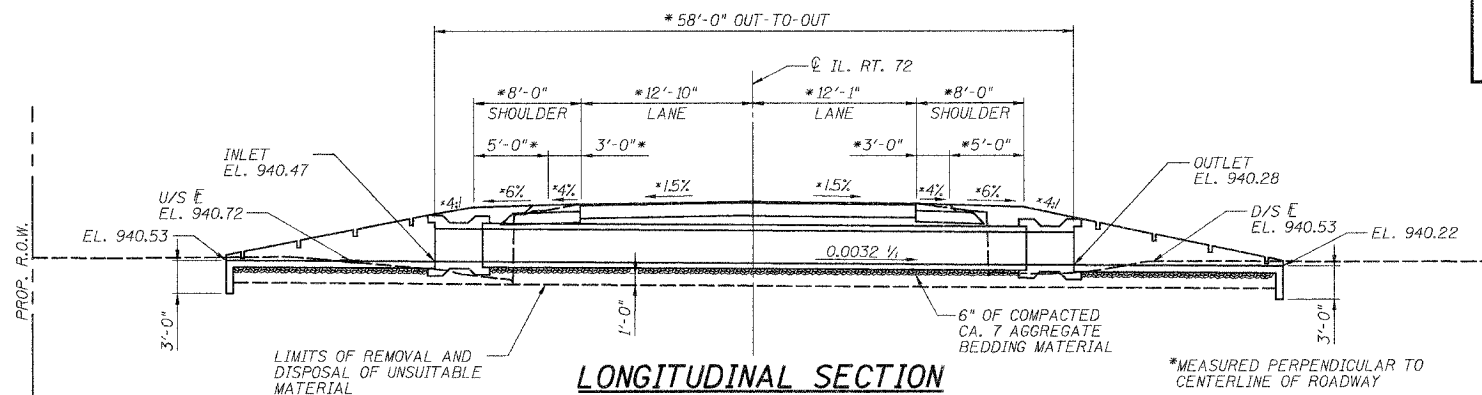
$f'_c = 5,000$  PSI  
 $f_y = 60,000$  PSI (REINFORCEMENT)

TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE BOX CULVERTS	CU. YD.	16.5
BOX CULVERT END SECTIONS NO. 2	EACH	4
PRECAST CONCRETE BOX CULVERT 5' x 3'	FOOT	90
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU. YD.	65
BREAKER-RUN CRUSHED STONE	TON	100
REMOVAL OF EXISTING STRUCTURE NO. 4	EACH	1
STONE RIPRAP, CLASS A4	SQ. YD.	35
FILTER FABRIC	SQ. YD.	35
REINFORCEMENT BARS	LB	3,082
NAME PLATES	EACH	1

NAME PLATE

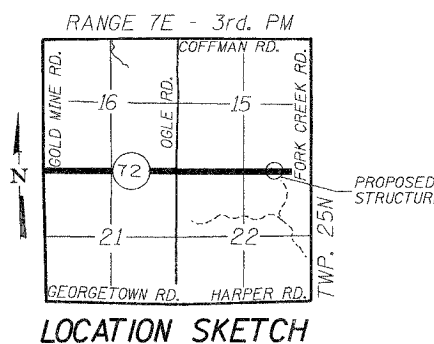
NOTE: SEE STANDARD DRAWING 515001 FOR NAME PLATE DETAILS.



GENERAL NOTES

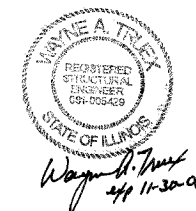
1. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 OR 60 (IL MODIFIED), SEE "SPECIAL PROVISION".
2. EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER.
3. CULVERT FLOWS MUST BE MAINTAINED THROUGHOUT THE PROJECT. NORMAL FLOW SHALL BE ALLOWED TO PASS AT THE RATE IT ENTERS THE JOBSITE. HIGH FLOWS SHALL BE ALLOWED TO PASS WITHOUT CAUSING DAMAGE TO UPSTREAM PROPERTIES.
4. THE CONTRACTOR SHALL CLEAN OUT CULVERT STREAM FLOW TO THE RIGHT OF WAY LINES. THE COST SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "PRECAST CONCRETE BOX CULVERT 5'x3'".
5. STRUCTURE EXCAVATION AND GRADING AROUND ENDS OF CULVERT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "PRECAST CONCRETE BOX CULVERT 5'x3'".
6. PLACEMENT AND COMPACTION OF THE BACKFILL FOR CULVERT SHALL CONFORM TO SECTION 502.10 OF THE STANDARD SPECIFICATIONS. EXCEPT THE MATERIAL SHALL CONFORM TO SECTION 1004.05 OF THE STANDARD SPECIFICATION FOR COARSE AGGREGATE FOR TRENCH BACKFILL AND SHALL BE COMPACTED TO MINIMUM OF 95% OF THE STANDARD LABORATORY DENSITY. THE ENTIRE EXCAVATION, WITHIN 2 FEET OUTSIDE OF EACH SHOULDER, SHALL BE BACKFILLED WITH TRENCH BACKFILL MATERIAL TO THE BOTTOM OF THE PROPOSED SUBGRADE. THIS TRENCH BACKFILL MATERIAL WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE CLASS OF CONCRETE INVOLVED OR OTHER UNIT PRICE ITEM OF THE WORK FOR WHICH IT IS REQUIRED.
7. PRECAST CONCRETE BOX CULVERT SLAB & WALL THICKNESS TAKEN FROM AASHTO MATERIAL SPECIFICATIONS. IF FABRICATOR CHOOSES TO ALTER DIMENSIONS, IT MUST BE APPROVED BY THE ENGINEER, AND THE CALCULATIONS SHALL BE PREPARED AND SEALED BY AN ILLINOIS LICENSED STRUCTURAL ENGINEER.
8. BOX CULVERT END SECTIONS NO. 2 CAN BE EITHER PRECAST OR CAST-IN-PLACE. DETAILS SHOWN ARE FOR CAST-IN-PLACE END SECTIONS. IF THE CONTRACTOR ELECTS TO USE PRECAST END SECTIONS, THE DESIGN OF THE END SECTION IS THE CONTRACTOR'S RESPONSIBILITY AND ALL CALCULATIONS SHALL BE PREPARED AND SEALED BY AN ILLINOIS LICENSED STRUCTURAL ENGINEER. IF PRECAST END SECTIONS ARE USED, EACH END SECTION (4 TOTAL) SHALL BE COMPLETELY FABRICATED PRIOR TO SITE DELIVERY.
9. THE NEW NUMBER FOR THIS STRUCTURE WILL BE 071-1150.
10. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M273 (DESIGN FILL HEIGHT < 2'-0")

WATERWAY INFORMATION				
DRAINAGE AREA (ACRES) = 135.0		LOW GRADE ELEV. (FEET) EXIST = 946.04 @ STA. 38+85 PROPOSED = 946.04 @ STA. 38+85		
FLOOD	FREQ. YR.	DISCHARGE C.F.S.	HEADWATER ELEVATION	
			EXISTING	PROPOSED
TEN-YEAR	10	92	942.55	941.78
DESIGN	50	189	944.64	943.03
BASE	100	251	945.80	944.33
EX OVT	109	259	946.04	
PR OVT	177	318		946.04



DESIGNED - ASP	200
CHECKED - WSP	EXAMINED
DRAWN - BEM	PASSED
CHECKED - ASP	ENGINEER OF BRIDGES AND STRUCTURES

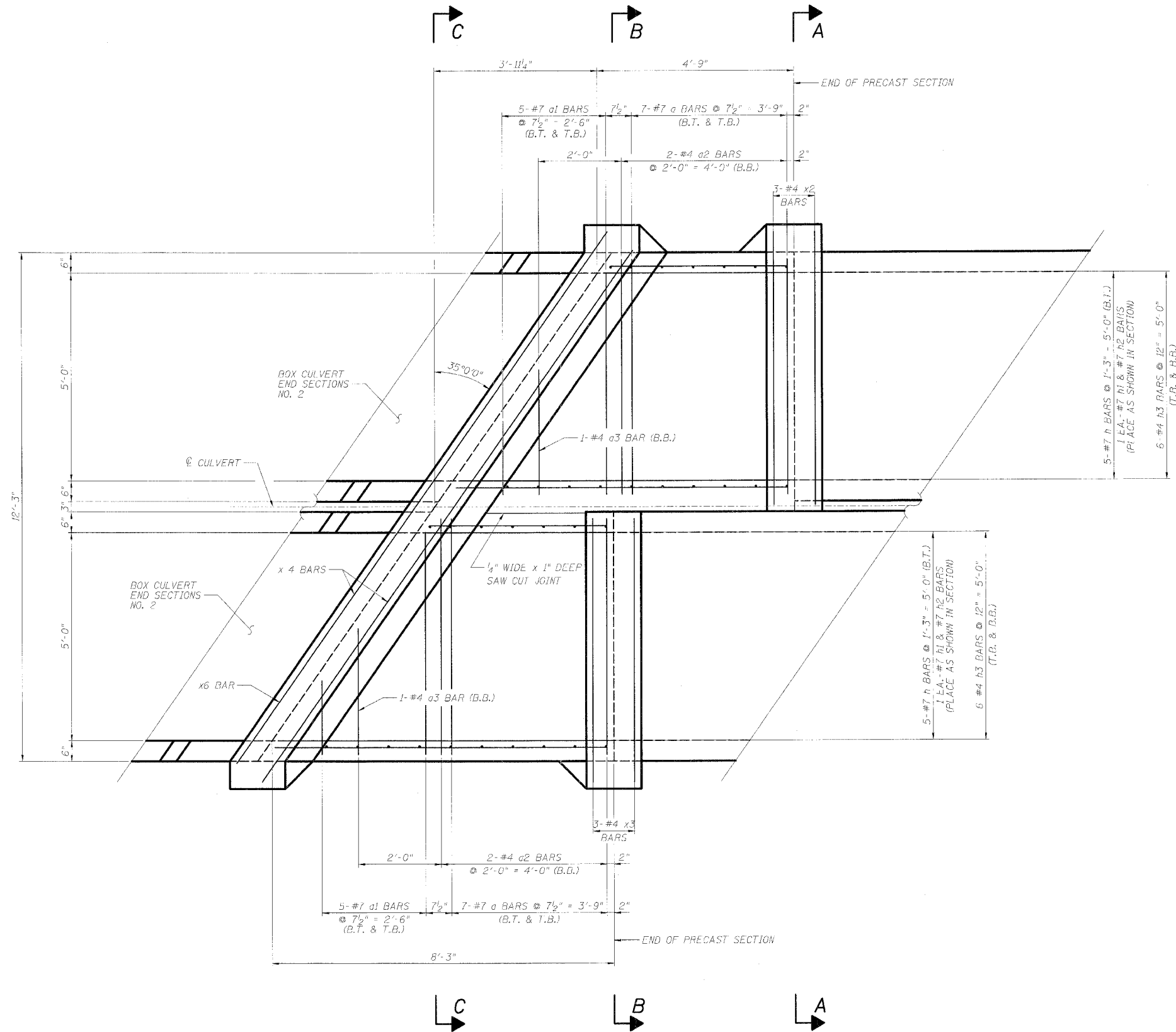
GENERAL PLAN & ELEVATION  
 F.A.P. 545 (IL. RTE. 72)  
 SECTION 114T-1  
 OGLE COUNTY  
 STATION 38+85.17  
 STRUCTURE NO. 071-1150



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.P. 545	SECTION 114T-1	COUNTY OGLE	TOTAL SHEETS 118	SHEET NO. 50	SHEET NO. 02 10 SHEETS
FED. ROAD DIST. NO. 2		ALLIANCE	FED. AID PROJECT		

Contract # 64C31



INLET PLAN

LEGEND

T.T. = TOP OF TOP SLAB  
B.T. = BOTTOM OF TOP SLAB  
T.B. = TOP OF BOTTOM SLAB  
B.B. = BOTTOM OF BOTTOM SLAB

DESIGNED	ASP
CHECKED	WSP
DRAWN	BEM
CHECKED	ASP

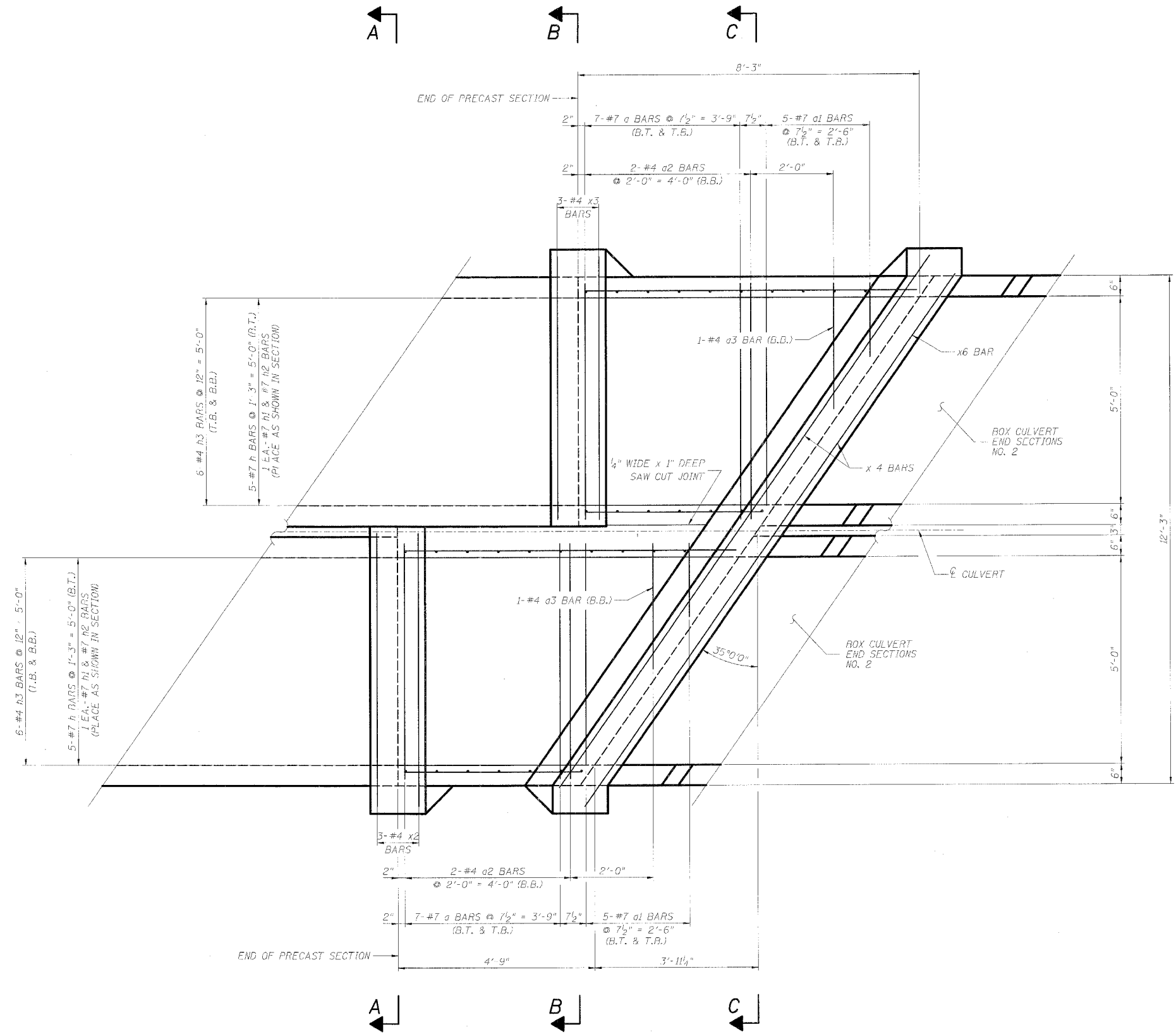
200	EXAMINED
	ENGINEER OF BRIDGE DESIGN
	PASSED
	ENGINEER OF BRIDGES AND STRUCTURES

INLET SECTION PLAN  
F.A.P. 545 (IL. RTE. 72)  
SECTION 114T-1  
OGLE COUNTY  
STATION 38+85.17  
STRUCTURE NO. 071-1150

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	LOCAL SHEETS	SHEET NO.	SHEET NO.
F.A.P. 545	114T-1	OGLE	11B	51	03
FED. ROAD DIST. NO. 2		ILL. HIGHWAY PROJ. NO.	FED. AID PROJ. NO.		

Contract # 64C31



OUTLET PLAN

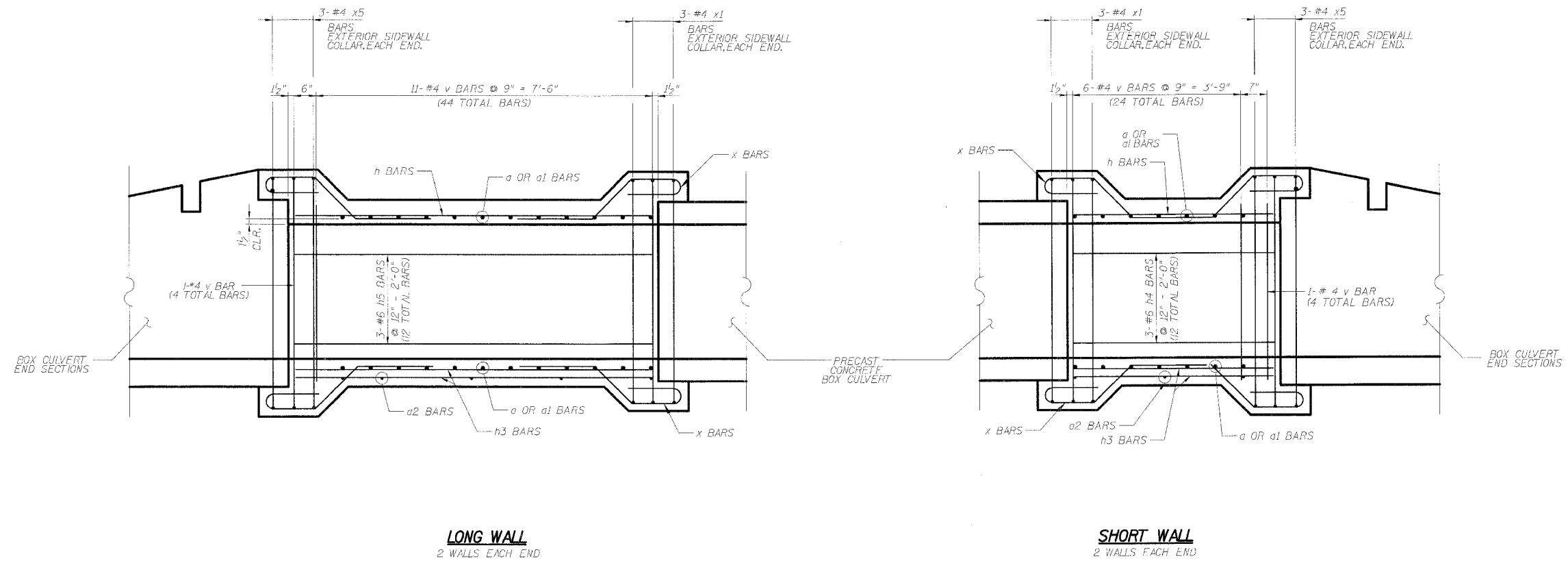
**LEGEND**  
T.T. = TOP OF TOP SLAB  
B.T. = BOTTOM OF TOP SLAB  
T.B. = TOP OF BOTTOM SLAB  
B.B. = BOTTOM OF BOTTOM SLAB

DESIGNED - ASP	200
CHECKED - WSP	EXAMINED
DRAWN - BEM	PASSED
CHECKED - ASP	ENGINEER OF BRIDGES AND STRUCTURES

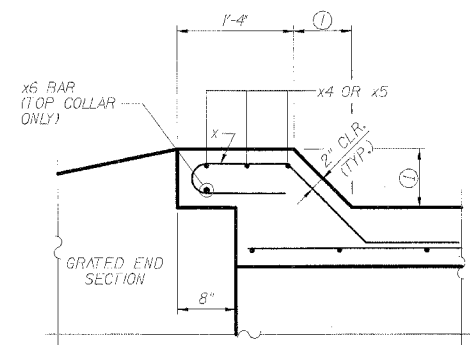
OUTLET SECTION PLAN  
F.A.P. 545 (IL. RTE. 72)  
SECTION 114T-1  
OGLE COUNTY  
STATION 38+85.17  
STRUCTURE NO. 071-1150

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	STATION	SHEET NO.
F.A.P. 545	114T-1	OGLE	118	52
SHEET NO. 04 10 SHEETS				
FED. ROAD DIST. NO. 3		ILL. ROAD DIST. NO. 1		
Contract # 64031				

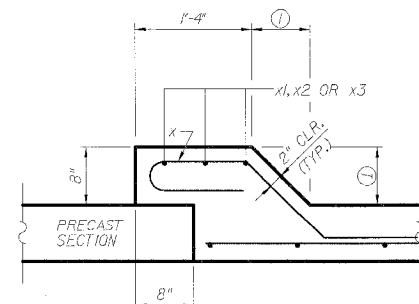


ELEVATION



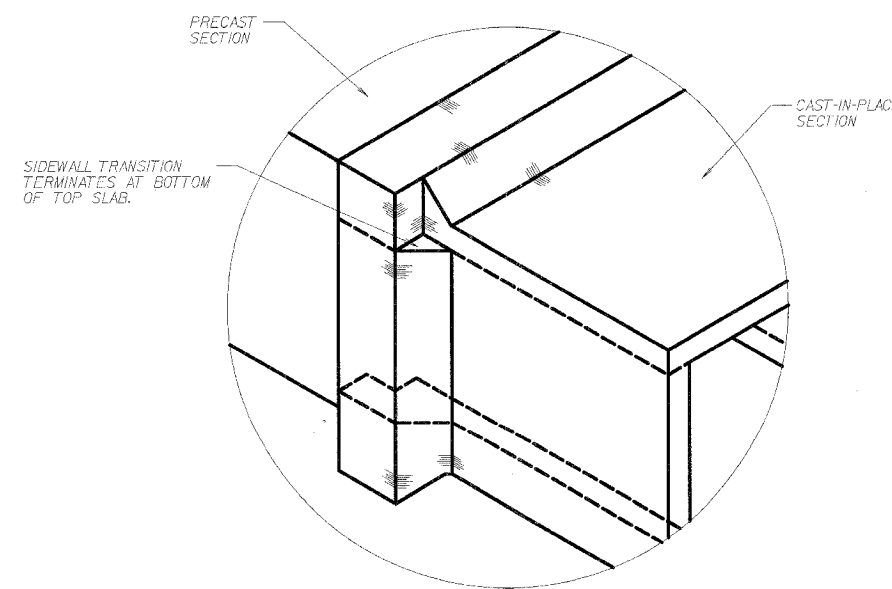
OPTIONAL CAST-IN-PLACE TO GRATED END SECTION CONNECTION COLLAR

① TOP SLAB = 8"  
BOTTOM SLAB = 8"  
SIDEWALLS = 8"

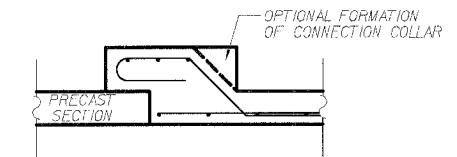


PRECAST TO CAST-IN-PLACE CONNECTION COLLAR

① TOP SLAB = 7 1/2"  
BOTTOM SLAB = 8"  
SIDEWALLS = 8"



ISOMETRIC VIEW OF CONNECTION COLLAR



OPTIONAL PRECAST TO CAST-IN-PLACE CONNECTION COLLAR

NOTE:  
ADDITIONAL CONCRETE USED FOR THE OPTIONAL COLLAR FORMATION WILL BE PROVIDED AT THE CONTRACTOR'S EXPENSE.

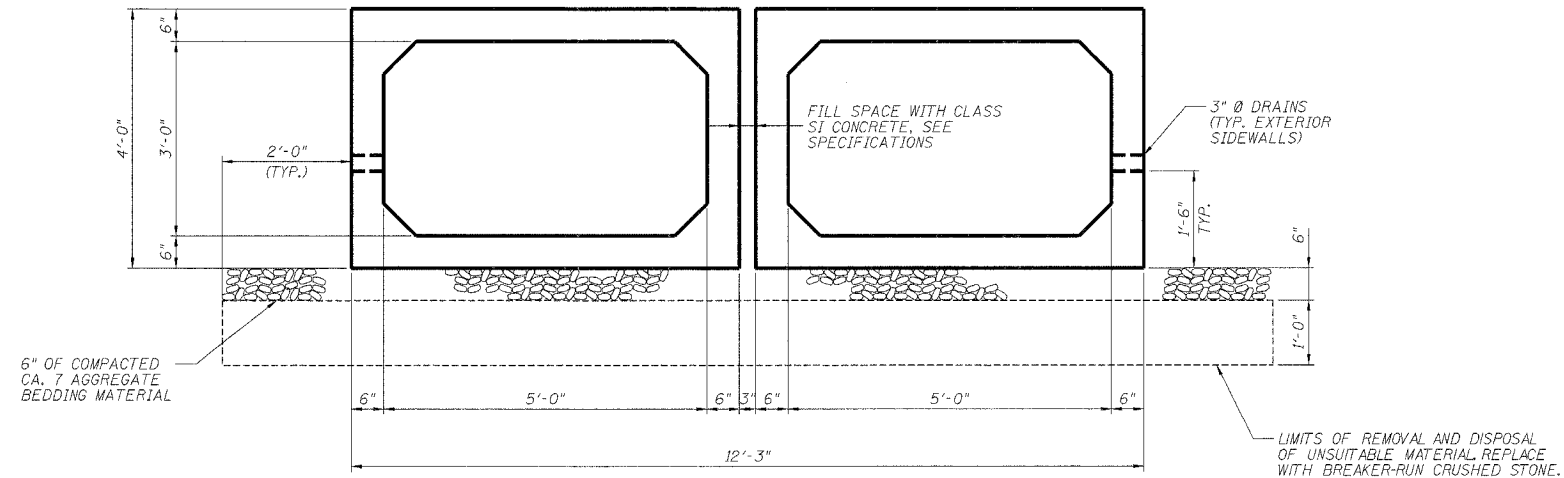
INLET & OUTLET SECTION ELEVATION  
F.A.P. 545 (IL. RTE. 72)  
SECTION 114T-1  
OGLE COUNTY  
STATION 38+85.17  
STRUCTURE NO. 071-1150

DESIGNED	ASP	200
CHECKED	WSP	EXAMINED
DRAWN	BEM	PASSED
CHECKED	ASP	ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

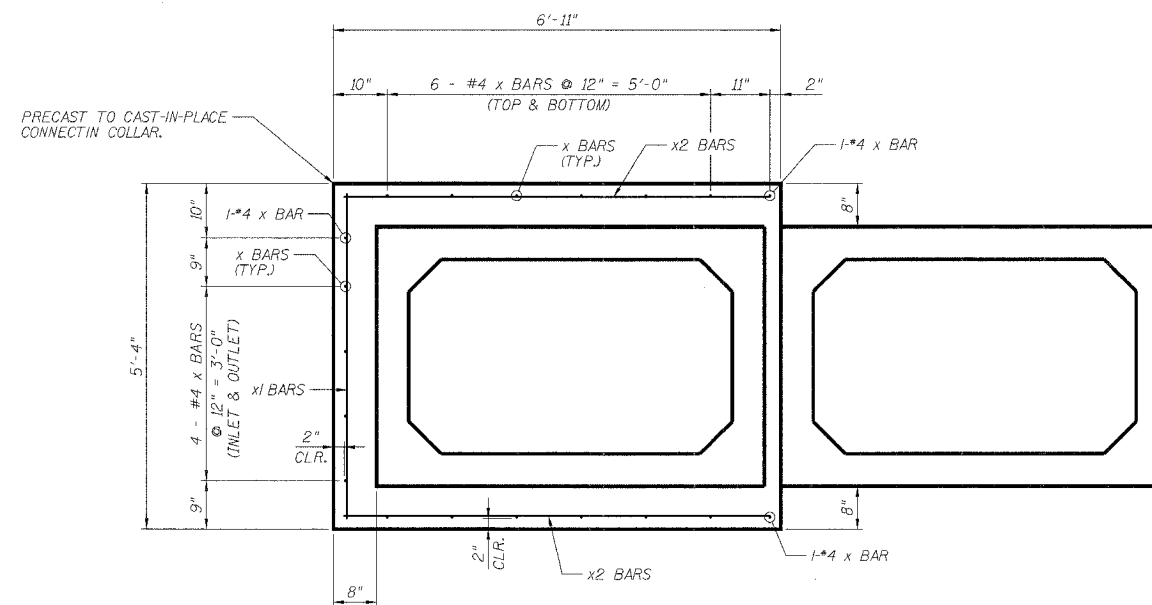
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 05 10 SHEETS
F.A.P. 545	114T-1	OGLE	118	53	
FED. ROAD DIST. NO. 2	ALIGNMENT	FED. AID PROJECT			

Contract # 64C31



**PRECAST TYPICAL SECTION**

NOTE:  
CLASS SI CONCRETE TO BE POURED  
BETWEEN PRECAST SECTIONS PRIOR  
TO FORMING AND POURING OF  
CAST-IN-PLACE SECTIONS.



**SECTION A-A & A1-A1**

DESIGNED	ASP
CHECKED	WSP
DRAWN	BEM
CHECKED	ASP

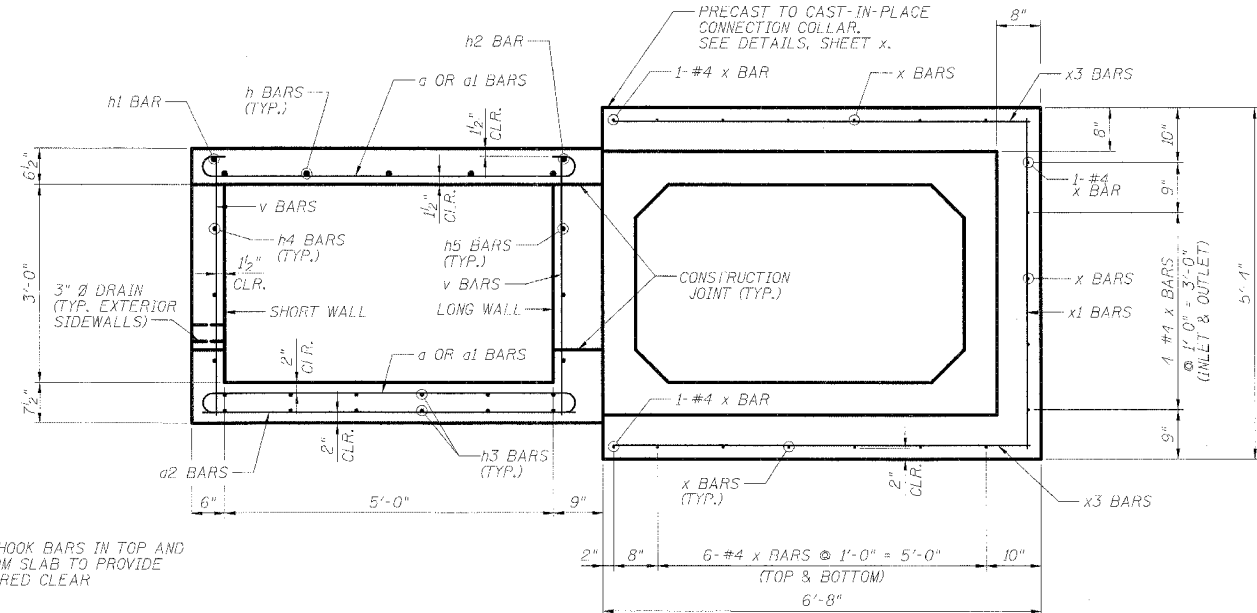
200	EXAMINED
ENGINEER OF BRIDGE DESIGN	PASSED
ENGINEER OF BRIDGES AND STRUCTURES	

**TYPICAL SECTIONS**  
**F.A.P. 545 (IL. RTE. 72)**  
**SECTION 114T-1**  
**OGLE COUNTY**  
**STATION 38+85.17**  
**STRUCTURE NO. 071-1150**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

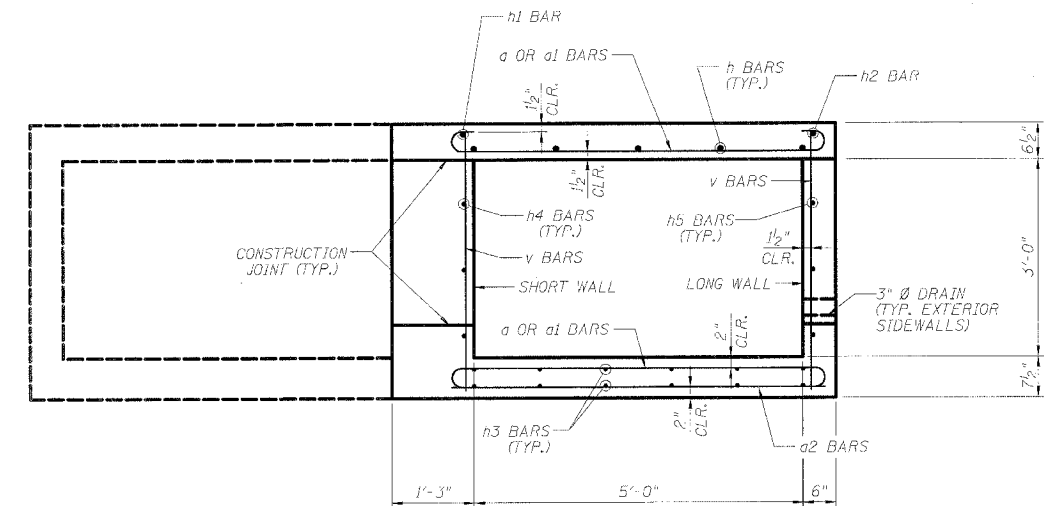
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 545	114T-1	OGLE	118	54
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

SHEET NO. 06  
10 SHEETS  
Contract # 64C31



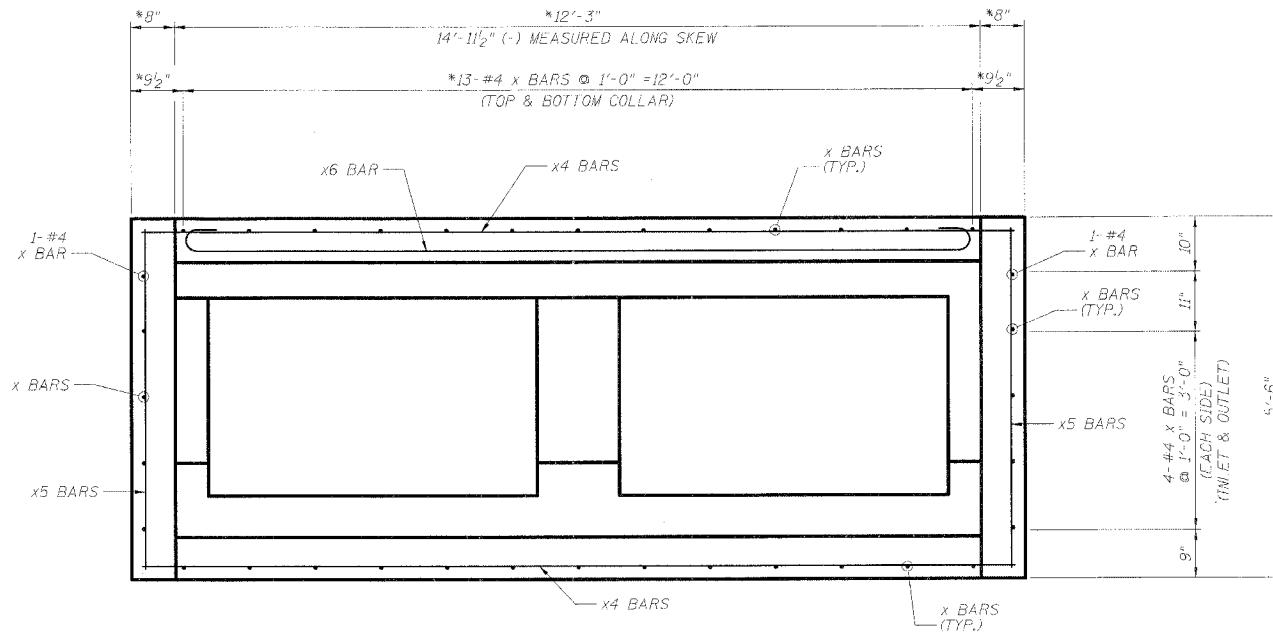
NOTE:  
TILT HOOK BARS IN TOP AND  
BOTTOM SLAB TO PROVIDE  
REQUIRED CLEAR

**PRECAST TYPICAL SECTION**



NOTE:  
TILT HOOK BARS IN TOP AND  
BOTTOM SLAB TO PROVIDE  
REQUIRED CLEAR

**SECTION A-A & A1-A1**



**CAST-IN-PLACE BARREL TO END  
SECTIONS CONNECTION COLLAR VIEW**

\* MEASURED PERPENDICULAR TO CULVERT SIDEWALLS

NOTE:  
TILT X6 BAR IN COLLAR  
TO PROVIDE REQUIRED CLEAR.

DESIGNED	ASP
CHECKED	WSP
DRAWN	BEM
CHECKED	ASP

EXAMINED	200
PASSED	

ENGINEER OF BRIDGE DESIGN  
ENGINEER OF BRIDGES AND STRUCTURES

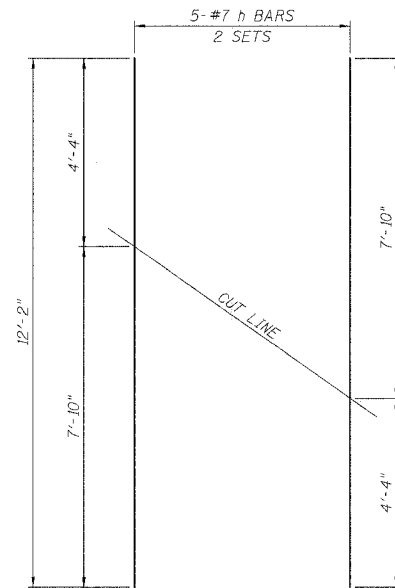
**TYPICAL SECTIONS**  
**F.A.P. 545 (IL. RTE. 72)**  
**SECTION 114T-1**  
**OGLE COUNTY**  
**STATION 38+85.17**  
**STRUCTURE NO. 071-1150**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

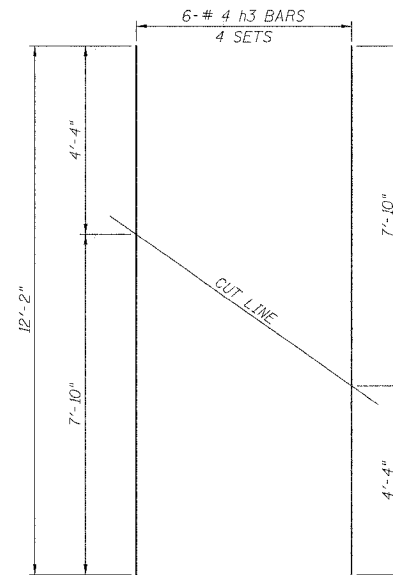
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 545	114T-1	OGLE	118	55
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT-		

Contract # 64C31

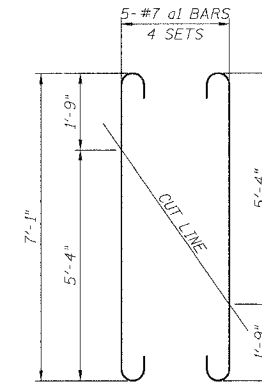
SHEET NO. 07  
10 SHEETS



**BARS h**



**BARS h3**



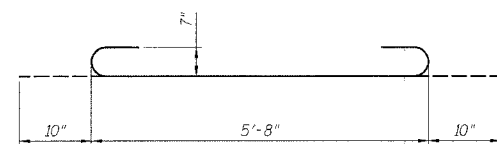
**BARS a1**

**FIELD CUTTING DIAGRAMS**

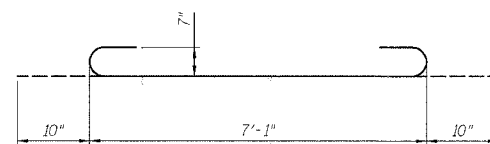
ORDER BARS FULL LENGTH. CUT AS SHOWN AND USE REMAINDER OF BARS IN OPPOSITE END.

**BILL OF MATERIAL**

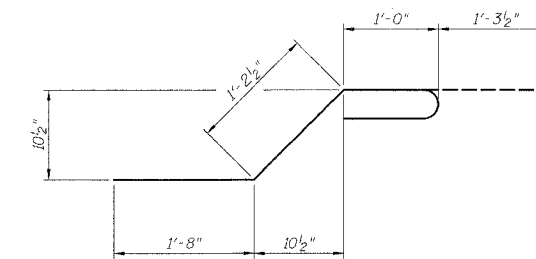
Bar	No.	Size	Length	Shape
a	56	7	7'-4"	
a1	20	7	8'-9"	
a2	8	4	5'-8"	
a3	4	4	3'-0"	
h	10	7	12'-2"	
h1	4	7	4'-3"	
h2	4	7	8'-0"	
h3	24	4	12'-2"	
h4	12	6	4'-3"	
h5	12	6	8'-0"	
v	76	4	3'-10"	
x	148	4	5'-2"	
x1	12	4	5'-0"	
x2	12	4	6'-7"	
x3	12	4	6'-4"	
x4	12	4	15'-7"	
x5	12	4	5'-2"	
x6	2	7	16'-3"	
Concrete Structures		Cu. Yd.	16.6	
Reinforcement Bars, Epoxy Coated		Pound	3,082	



**BARS a**



**BARS a1**



**BAR x**

DESIGNED - ASP	200
CHECKED - WSP	EXAMINED
DRAWN - BEM	ENGINEER OF BRIDGE DESIGN
CHECKED - ASP	PASSED
	ENGINEER OF BRIDGES AND STRUCTURES

**BARBILL & DETAILS**  
F.A.P. 545 (IL. RTE. 72)  
SECTION 114T-1  
OGLE COUNTY  
STATION 38+85.17  
STRUCTURE NO. 071-1150

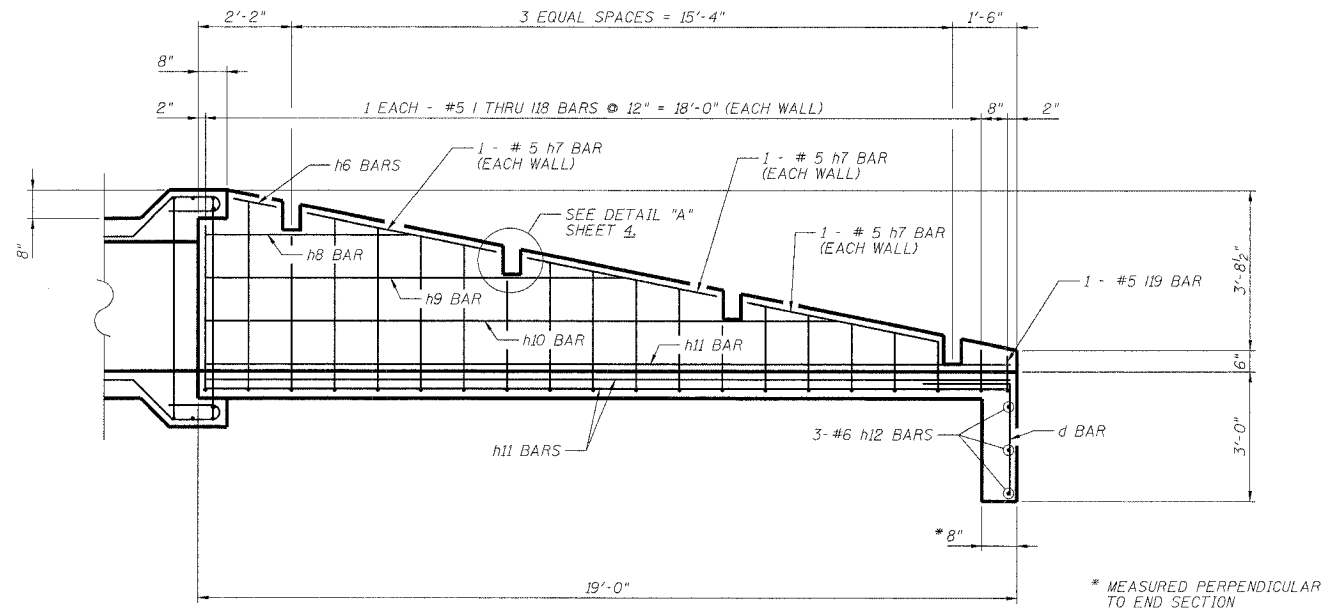


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 545	114T-1	OGLE	118	56
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

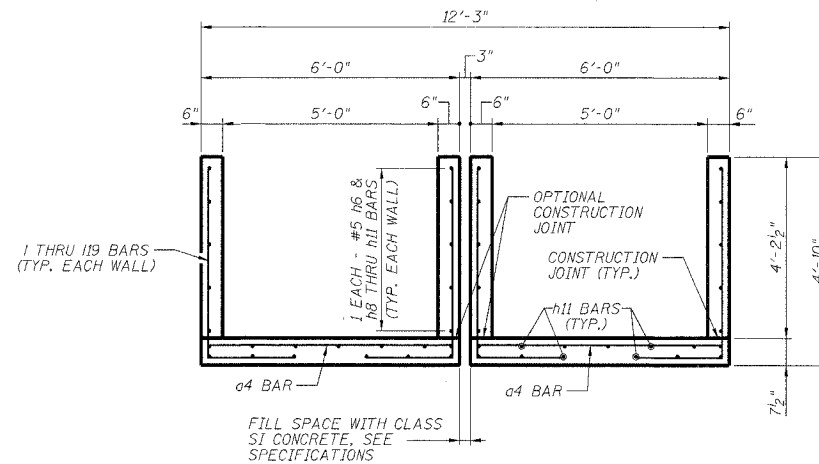
SHEET NO. 08  
10 SHEETS

Contract # 64C31

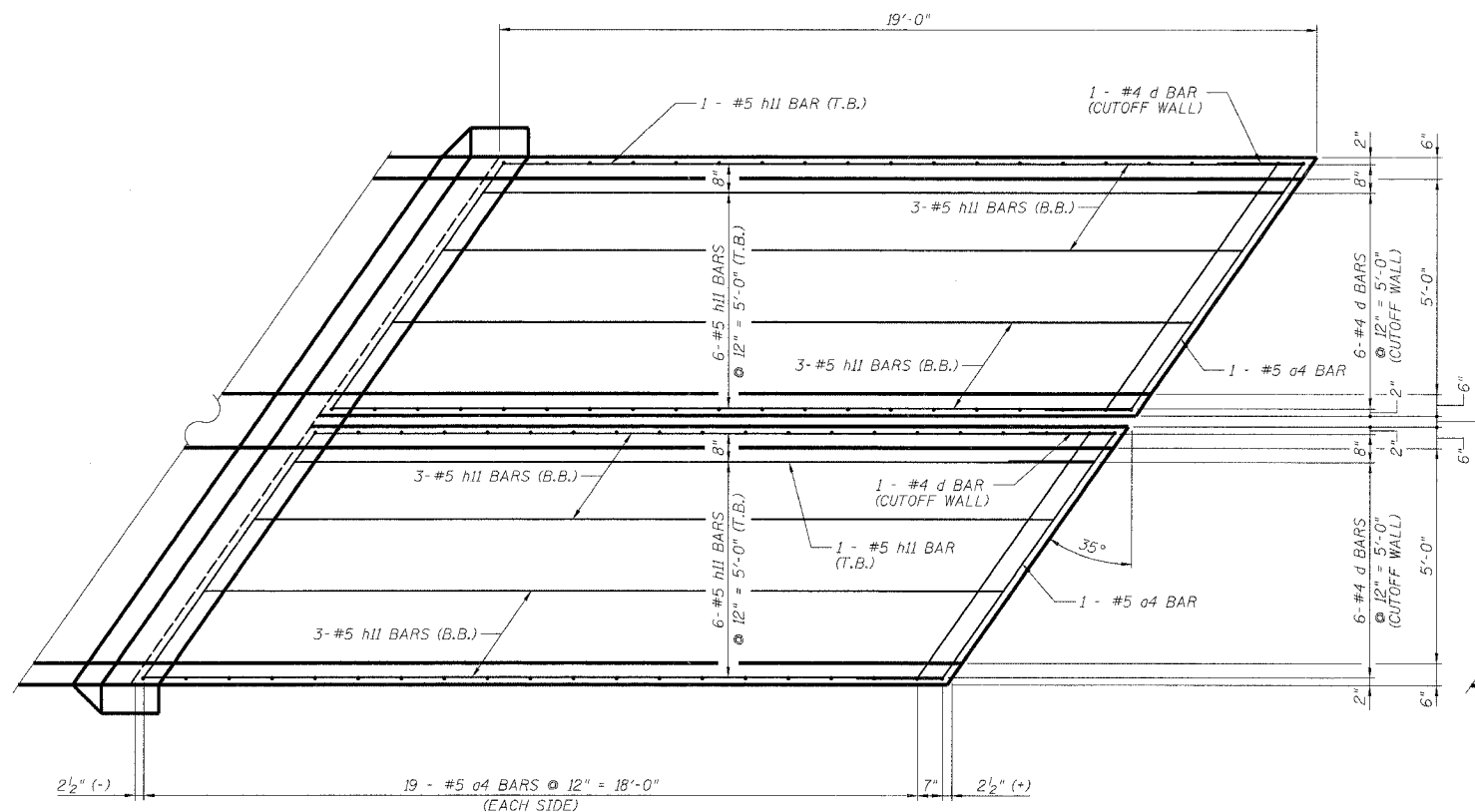


**INLET/OUTLET ELEVATION**

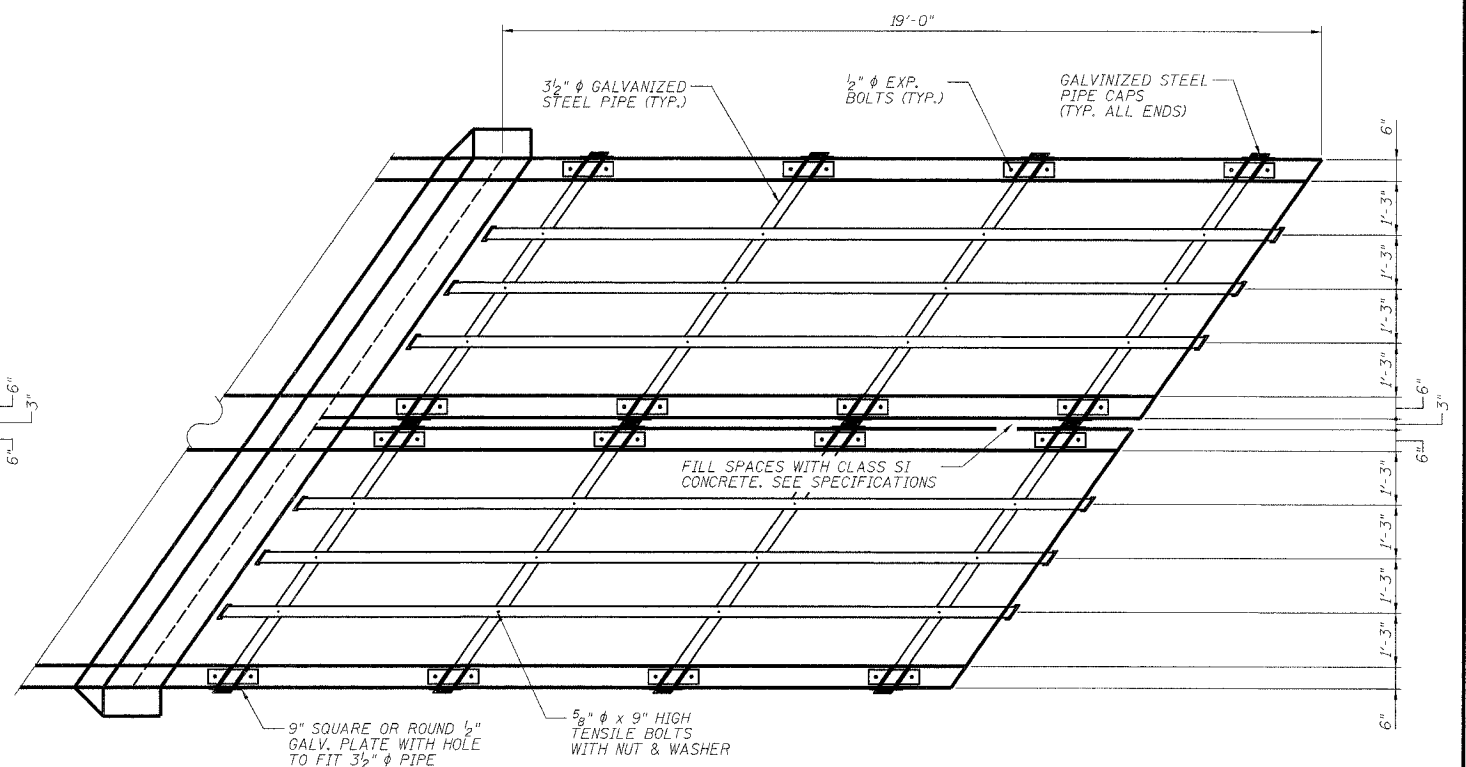
(2 END SECTIONS, EACH END)  
(4 TOTAL)



**SECTION A-A**



**INLET/OUTLET PLAN**



**GRATE INLET/OUTLET PLAN**

(2 END SECTIONS, EACH END)  
(4 TOTAL)

DESIGNED -	ASP
CHECKED -	WSP
DRAWN -	BEM
CHECKED -	ASP

EXAMINED	200
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

**LEGEND**

T.B. = TOP OF BOTTOM SLAB  
B.B. = BOTTOM OF BOTTOM SLAB

**BOX CULVERT END SECTIONS NO. 2**  
**PLAN & ELEVATION**  
**F.A.P. 545 (IL. RTE. 72)**  
**SECTION 114T-1**  
**OGLE COUNTY**  
**STATION 38+85.17**  
**STRUCTURE NO. 071-1150**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	DISTRICT	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.P. 545	114T-1	OGLE	118	57
FED. ROAD DIST. NO. 2		ILLINOIS	FED. AID PROJECT	

SHEET NO. 09  
10 SHEETS

Contract # 64C31

**\*\* BOX CULVERT  
END SECTIONS NO. 2  
BILL OF MATERIAL**

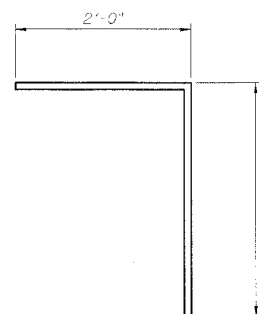
**\* BOX CULVERT END SECTIONS NO. 2  
BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
3 1/2" Ø GALV. STEEL PIPE	EACH	3 @ 18'-7"
1/2" x 4" x 14" GALV. ANCHOR PLATE	EACH	4 @ 7'-6 3/8"
5/8" Ø x 9" GALV. BOLTS	EACH	12
1/2" Ø GALV. EXP. BOLTS	EACH	16
9" SQ. OR ROUND 1/2" GALV. PLATE	EACH	8
GALV. STEEL PIPE CAPS	EACH	14

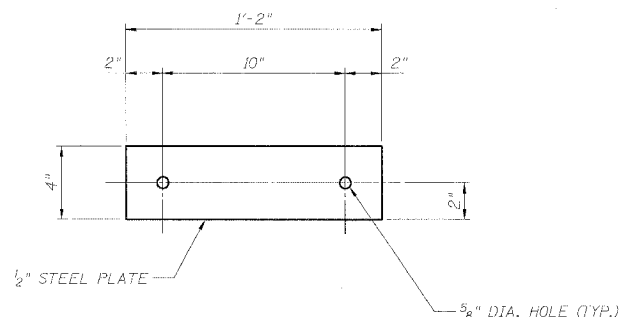
\* QUANTITIES GIVEN ARE FOR EACH BOX CULVERT END SECTION. FOR INFORMATIONAL PURPOSES ONLY. COST TO BE INCLUDED IN THE BID ITEM "BOX CULVERT END SECTIONS NO. 2"

Bar	No.	Size	Length	Shape
d4	80	5	6'-11"	—
d	28	4	4'-8"	—
h6	8	5	0'-11"	—
h7	24	5	4'-5"	—
h8	8	5	4'-9"	—
h9	8	5	9'-9"	—
h10	8	5	14'-8"	—
h11	60	5	18'-8"	—
h12	12	6	6'-11"	—
1	8	5	5'-9"	—
11	8	5	6'-4"	—
12	8	5	5'-6"	—
13	8	5	5'-11"	—
14	8	5	5'-9"	—
15	8	5	5'-6"	—
16	8	5	5'-4"	—
17	8	5	4'-6"	—
18	8	5	4'-11"	—
19	8	5	4'-9"	—
110	8	5	4'-6"	—
111	8	5	4'-4"	—
112	8	5	3'-5"	—
113	8	5	3'-11"	—
114	8	5	3'-8"	—
115	8	5	3'-6"	—
116	8	5	3'-4"	—
117	8	5	3'-1"	—
118	8	5	2'-11"	—
119	8	5	2'-9"	—
CONCRETE STRUCTURES		CU. YD.	18.8	
REINFORCEMENT BARS		POUND	3,413	

\*\* BILL OF MATERIAL IS TOTAL FOR ALL END SECTIONS. FOR INFORMATIONAL PURPOSES ONLY

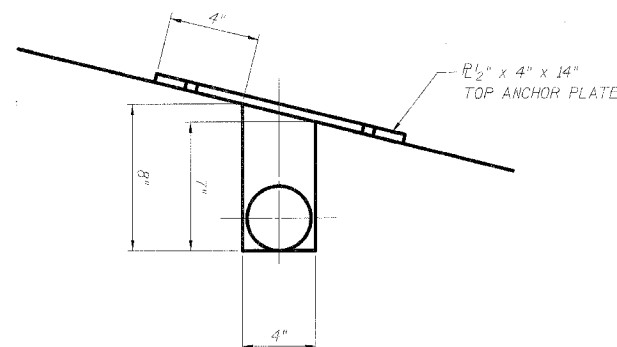


**BAR d**

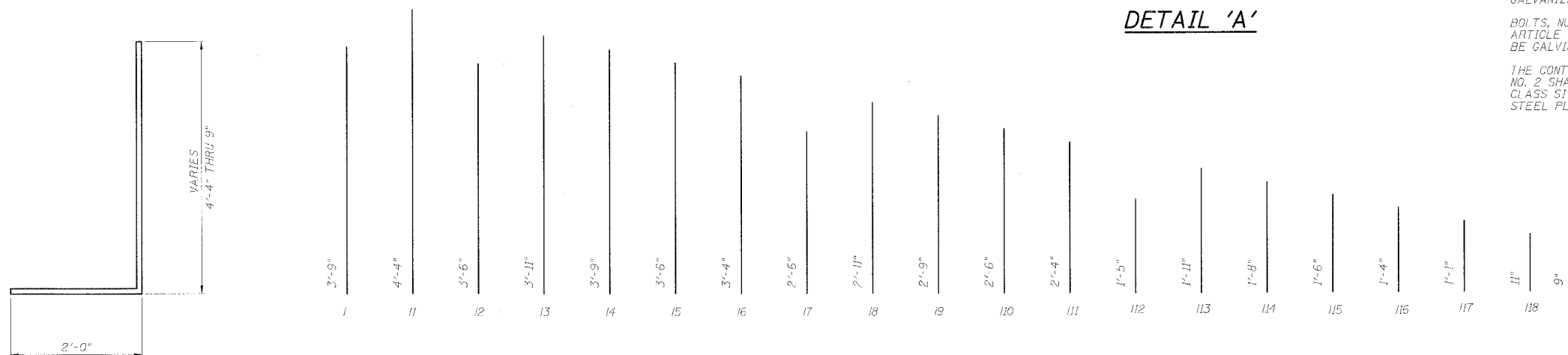


**TOP ANCHOR PLATE**

(8 EACH SECTION)  
(32 TOTAL)



**DETAIL 'A'**



**BARS 1 THRU 119**

**GENERAL NOTES**

STEEL PIPES SHALL CONFORM TO A.S.T.M. A-53 (TYPE E OR S) GRADE B, SCHEDULE 40, & SHALL BE GALVANIZED CONFORMING TO A.S.T.M. A-120.

STEEL PLATES SHALL CONFORM TO AASHTO M-183 & SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

BOLTS, NUTS AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATIONS AND SHALL BE GALVANIZED.

THE CONTRACT UNIT PRICE "EACH" FOR BOX CULVERT END SECTION NO. 2 SHALL INCLUDE THE EXPANSION BOLTS, GALVANIZED PIPES, CLASS SI CONCRETE, BOLTS, NUTS, REINFORCEMENT, WASHERS, AND STEEL PLATES.

DESIGNED - ASP	200
CHECKED - WSP	EXAMINED
DRAWN - BEM	PASSED
CHECKED - ASP	

**BOX CULVERT END SECTIONS NO. 2**

**DETAILS**

F.A.P. 545 (IL. RTE. 72)

SECTION 114T-1

OGLE COUNTY

STATION 38+85.17

STRUCTURE NO. 071-1150

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



SOIL BORING LOG

Page 1 of 1  
Date 4/27/06

ROUTE IL 72 DESCRIPTION P92-073-06 Box culvert, IL 72 over ditch, .3 m. W. of Fork Creek Road LOGGED BY J. Stratino  
SECTION LOCATION Forreston Twp. - 15 SE. SEC. , TWP. 25N, RNG. 7E  
COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO.	DEPT	BLO	UCS	M	Surface Water Elev.	DEPT	BLO	UCS	M
Station	H	S	Qu	T	ft	H	S	Qu	T
071-1044					93.3				
B-1a					73.3				
30' East									
29.50ft S CL									
95.3									
MEDIUM black SILTY CLAY LOAM			0.8	32	73.80				
MEDIUM black SILTY LOAM with 9% ORGANICS	2	3	0.7	42	71.80				
MEDIUM gray/green SILTY LOAM	1	3	0.7	33	69.30				
SOFT gray SILTY LOAM	1	2	0.4	29	86.80				
MEDIUM tan SILTY LOAM with SAND lenses	1	3	1.0	15					
MEDIUM tan/gray SILTY LOAM TILL	3	3	1.0	22					
MEDIUM tan/gray SILTY LOAM TILL	3	2	0.5	15					
STIFF gray SILTY CLAY LOAM with SAND lens	3	2	1.4	21					
STIFF gray SILTY CLAY									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1  
Date 6/1/06

ROUTE IL 72 DESCRIPTION P92-073-06 Box culvert, IL 72 over ditch, .3 m. W. of Fork Creek Road LOGGED BY W. Garza  
SECTION LOCATION Forreston Twp. - 15 SE. SEC. , TWP. 25N, RNG. 7E  
COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO.	DEPT	BLO	UCS	M	Surface Water Elev.	DEPT	BLO	UCS	M
Station	H	S	Qu	T	ft	H	S	Qu	T
071-1044					93.3				
B-2a					75.9				
23' W. of Cully CL									
11.00ft N CL									
99.4									
SOFT brown SILTY LOAM			0.4		77.90				
MEDIUM dark brown LOAM	1	1	0.8	24	75.40				
STIFF dark brown SILTY LOAM	2	3	1.1	37	72.40				
STIFF dark brown SILTY CLAY LOAM	1	1	1.2	33	70.40				
MEDIUM gray SILTY LOAM	1	1	0.5	30	67.90				
MEDIUM gray SILTY LOAM with SAND lens	1	2	0.6	30					
MEDIUM gray fine SAND	3	9							
STIFF gray LOAM TILL	3	3	1.3	14					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

DESIGNED - ASP	200
CHECKED - WSP	EXAMINED
DRAWN - BEM	ENGINEER OF BRIDGE DESIGN
CHECKED - ASP	PASSED
	ENGINEER OF BRIDGES AND STRUCTURES

BORING LOG  
F.A.P. 545 (IL. RTE. 72)  
SECTION 114T-1  
OGLE COUNTY  
STATION 38+85.17  
STRUCTURE NO. 071-1150

BENCH MARK: BM 406  
 STA. 117+19.06, 32.97' RT., EL. 905.316  
 TOP OF ROW MARKER SOUTH OF IL 72  
 WEST OF CULVERT & CONTROL POINT 6.

EXISTING STRUCTURE:  
 DOUBLE 7'-0" X 4'-0" X 36'-0" CONCRETE BOX CULVERT.

NO SALVAGE.  
 PROPOSED IMPROVEMENTS:  
 EXISTING STRUCTURE TO BE REMOVED AND REPLACED  
 WITH A 5 CELL - 6'-0" X 3'-0" PRECAST CONCRETE BOX  
 CULVERT WITH PRECAST CONCRETE BOX CULVERT END  
 SECTIONS.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

STATION 121+43.48  
 BUILT 200. BY  
 STATE OF ILLINOIS  
 IL 72 SECT. 114T-1  
 LOADING HS20  
 STR. NO. 071-1151

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 545	114T-1	OGLE	118	59
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

Contract # 64C31

DESIGN SPECIFICATIONS

AASHTO 2002 SPECIFICATIONS

LOADING HS20-44

ALLOW 50#/SQ. FT. FOR FUTURE WEARING SURFACE.

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$  PSI  
 $f_y = 60,000$  PSI (REINFORCEMENT)

PRECAST UNITS

$f'_c = 5,000$  PSI  
 $f_y = 60,000$  PSI (REINFORCEMENT)

NAME PLATE

NOTE: SEE STANDARD DRAWING 515001  
 FOR NAME PLATE DETAILS.

TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
BOX CULVERT END SECTIONS NO. 3	EACH	10
PRECAST CONCRETE BOX CULVERT 6' x 3'	FOOT	240
NAME PLATES	EACH	1
REMOVAL OF EXISTING STRUCTURE NO. 5	EACH	1
STONE RIPRAP, CLASS A4	SQ. YD.	110
FILTER FABRIC	SQ. YD.	110
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU. YD.	255
BREAKER-RUN CRUSHED STONE	TON	410

GENERAL NOTES

- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GR 60 (IL MODIFIED), SEE SPECIAL PROVISION.
- EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER.
- CULVERT FLOWS MUST BE MAINTAINED THROUGHOUT THE PROJECT. NORMAL FLOW SHALL BE ALLOWED TO PASS AT THE RATE IT ENTERS THE JOBSITE. HIGH FLOWS SHALL BE ALLOWED TO PASS WITHOUT CAUSING DAMAGE TO UPSTREAM PROPERTIES.
- THE CONTRACTOR SHALL CLEAN OUT CULVERT STREAM FLOW TO THE RIGHT OF WAY LINES. THE COST SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "PRECAST CONCRETE BOX CULVERT 6'x3'".
- STRUCTURE EXCAVATION AND GRADING AROUND ENDS OF CULVERT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "PRECAST CONCRETE BOX CULVERT 6' x 3'".
- PLACEMENT AND COMPACTION OF THE BACKFILL FOR CULVERT SHALL CONFORM TO SECTION 502.10 OF THE STANDARD SPECIFICATIONS. THE MATERIAL SHALL CONFORM TO SECTION 1004.05 OF THE STANDARD SPECIFICATIONS FOR COARSE AGGREGATE FOR TRENCH BACKFILL, AND SHALL BE COMPACTED TO MINIMUM OF 95% OF THE STANDARD LABORATORY DENSITY. THE ENTIRE EXCAVATION, WITHIN 2 FEET OUTSIDE OF EACH SHOULDER, SHALL BE BACKFILLED WITH TRENCH BACKFILL MATERIAL TO THE BOTTOM OF THE PROPOSED SUBGRADE. THIS TRENCH BACKFILL MATERIAL WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE CLASS OF CONCRETE INVOLVED OR OTHER UNIT PRICE ITEM OF THE WORK FOR WHICH IT IS REQUIRED.
- PRECAST CONCRETE BOX CULVERT SLAB & WALL THICKNESS TAKEN FROM AASHTO MATERIAL SPECIFICATIONS. IF FABRICATOR CHOOSES TO ALTER DIMENSIONS, IT MUST BE APPROVED BY THE ENGINEER, AND THE CALCULATIONS SHALL BE PREPARED AND SEALED BY AN ILLINOIS LICENSED STRUCTURAL ENGINEER.
- ALL LABOR AND MATERIAL REQUIRED FOR THE CONSTRUCTION OF THE CONNECTION COLLAR SHALL BE INCLUDED IN THE BID ITEM "PRECAST CONCRETE BOX CULVERT 6' x 3'".
- STRUCTURE EXCAVATION AND GRADING AROUND ENDS OF CULVERT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "PRECAST CONCRETE BOX CULVERT 6'x3'".
- BOX CULVERT END SECTIONS ARE TO BE PRECAST. CONTRACTOR HAS THE OPTION OF USING CAST-IN-PLACE END SECTIONS, BUT THE DESIGN OF THE REINFORCEMENT IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE APPROVED BY THE ENGINEER. IF THE CONTRACTOR ELECTS TO USE CAST-IN-PLACE END SECTIONS, NO ADJUSTMENTS IN COSTS OF THE END SECTIONS WILL BE ALLOWED.
- THE NEW NUMBER FOR THIS STRUCTURE WILL BE 071-1151.
- THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M273 (DESIGN FILL HEIGHT < 2'-0")

GENERAL PLAN & ELEVATION

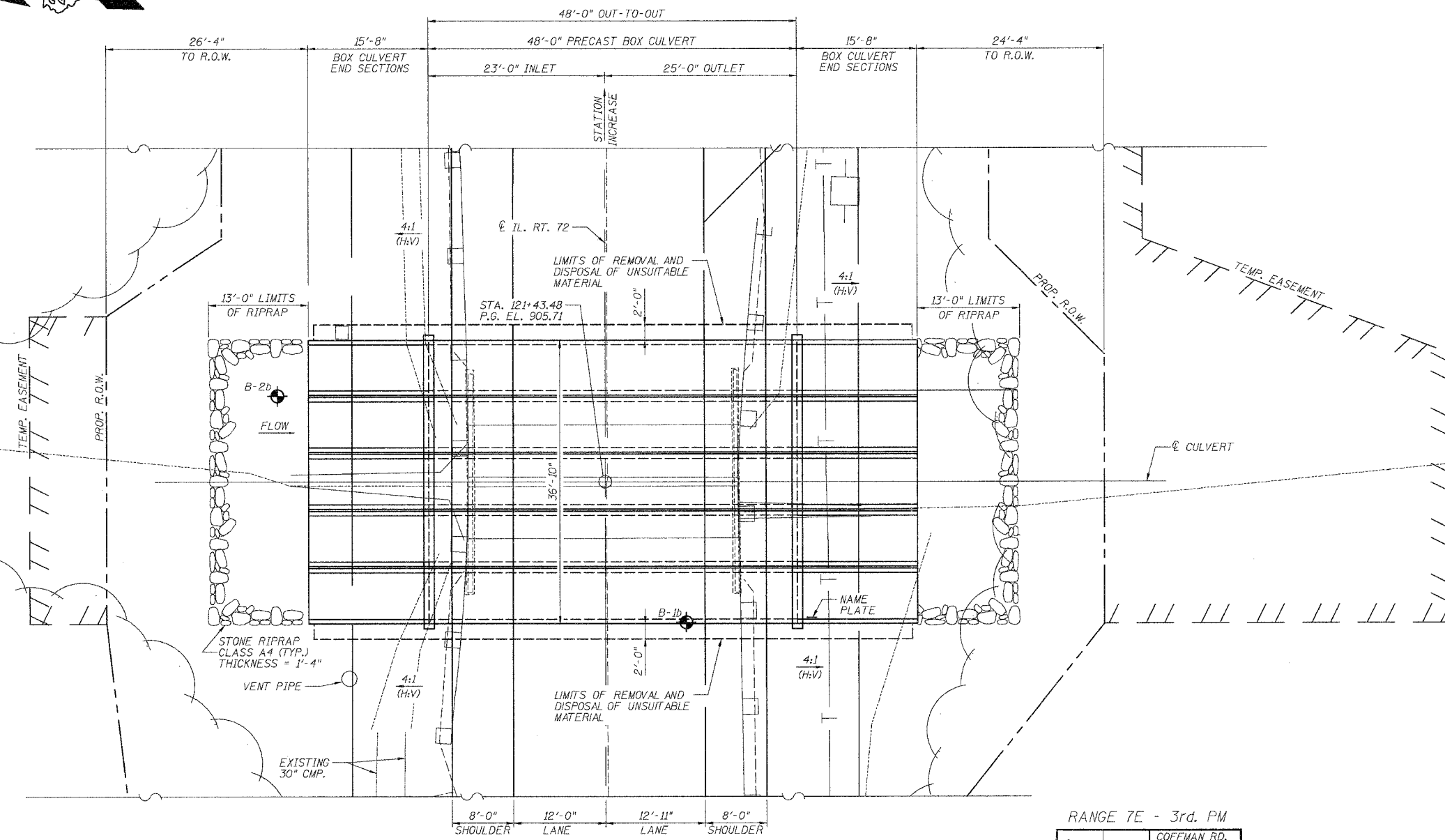
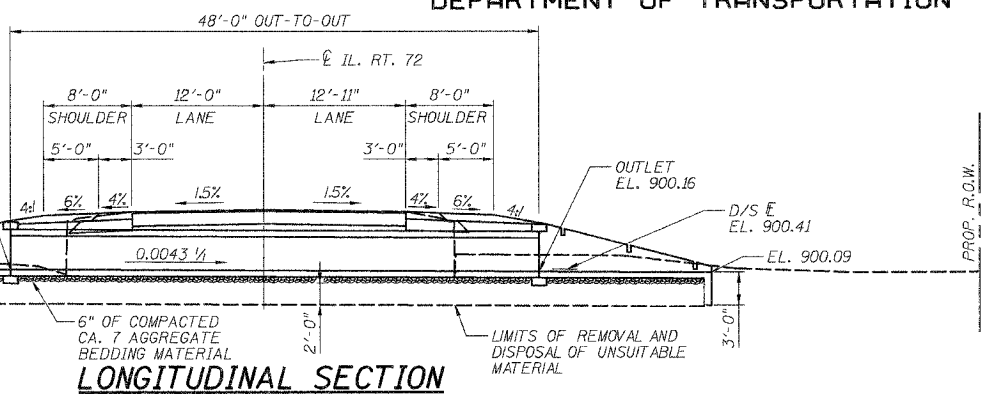
F.A.P. 545 (IL. RTE. 72)

SECTION 114T-1

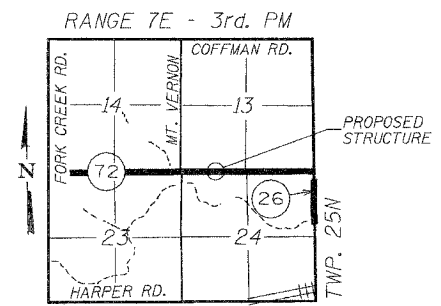
OGLE COUNTY

STATION 121+43.48

STRUCTURE NO. 071-1151

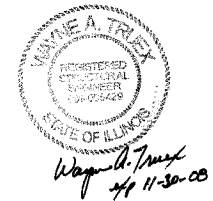


WATERWAY INFORMATION				
DRAINAGE AREA (ACRES) = 251.0		LOW GRADE ELEV. (FEET) EXIST = 904.76 @ STA. 109+94 PROPOSED = 904.76 @ STA. 109+94		
FLOOD	FREQ. YR.	DISCHARGE C.F.S.	HEADWATER ELEVATION	
			EXISTING	PROPOSED
TEN-YEAR	10	170	902.42	902.44
DESIGN	50	351	904.08	903.63
BASE	100	465	904.92	904.25
EX OVT	78	416	904.76	
PR OVT	162	568		904.76



DESIGNED - ASP	200
CHECKED - WSP	EXAMINED
DRAWN - BEM	PASSED
CHECKED - ASP	

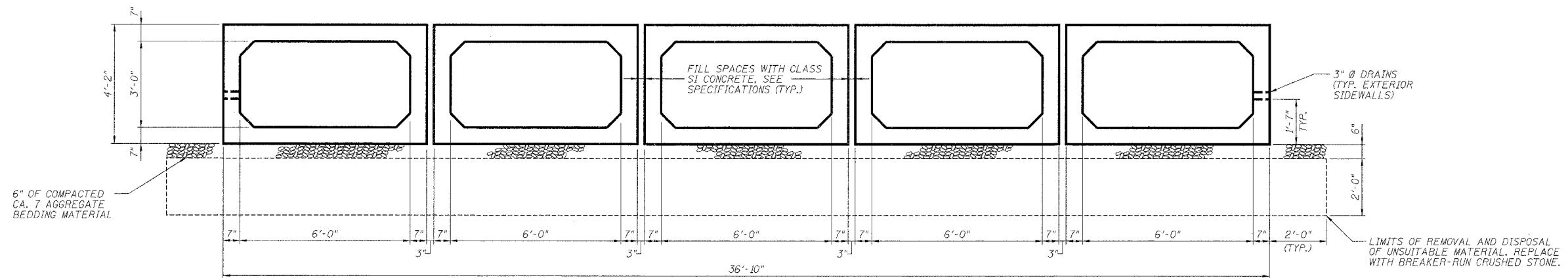
ENGINEER OF BRIDGE DESIGN  
 ENGINEER OF BRIDGES AND STRUCTURES



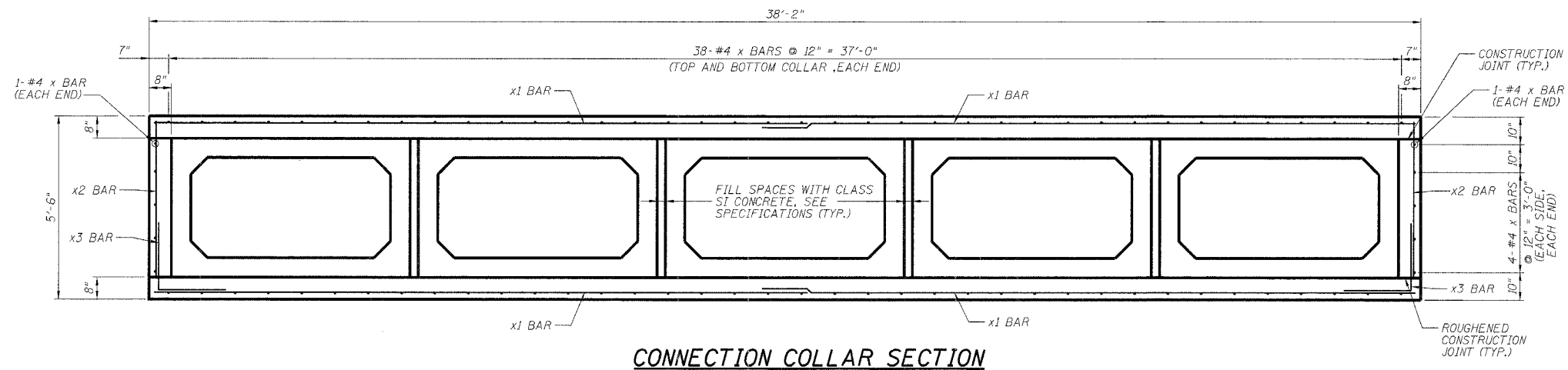
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	FEET SHEETS	SHEET NO.	SHEET NO. 02 04 SHEETS
F.A.P. 545	114T-1	OGLE	118	60	
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT			

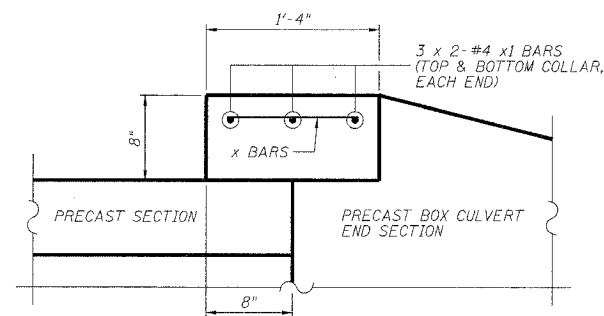
Contract # 64C31



**PRECAST TYPICAL SECTION**



**CONNECTION COLLAR SECTION**



**COLLAR DETAIL**

NOTE:  
BARS INDICATED THUS 3x2-#4 x1 BARS  
INDICATES 3 LINES OF BARS WITH 2  
LENGTHS PER LINE.

DESIGNED -	ASP
CHECKED -	WSP
DRAWN -	BEM
CHECKED -	ASP

EXAMINED	200
PASSED	

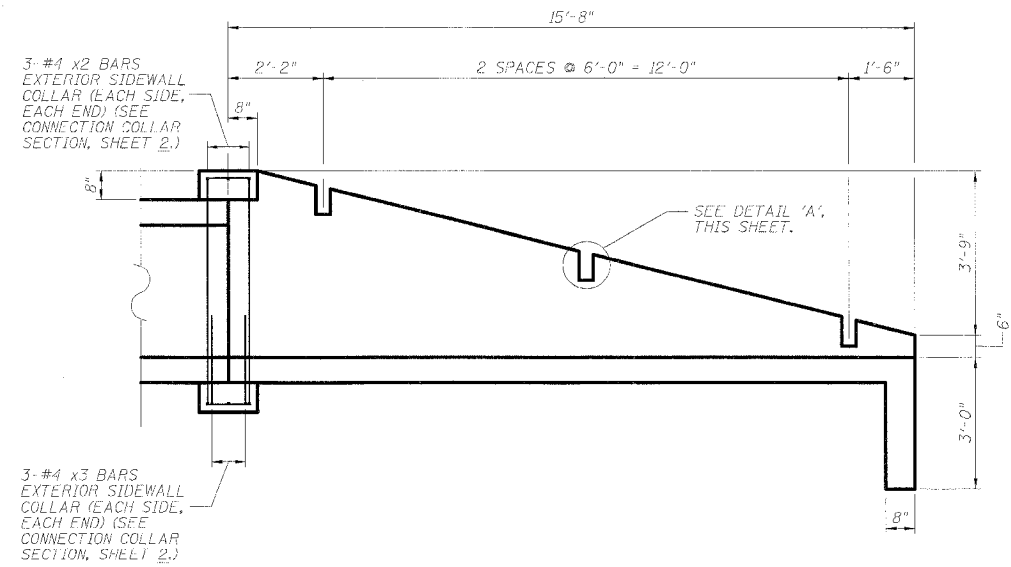
ENGINEER OF BRIDGE DESIGN  
ENGINEER OF BRIDGES AND STRUCTURES

**TYPICAL SECTIONS**  
**F.A.P. 545 (IL. RTE. 72)**  
**SECTION 114T-1**  
**OGLE COUNTY**  
**STATION 121+43.48**  
**STRUCTURE NO. 071-1151**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

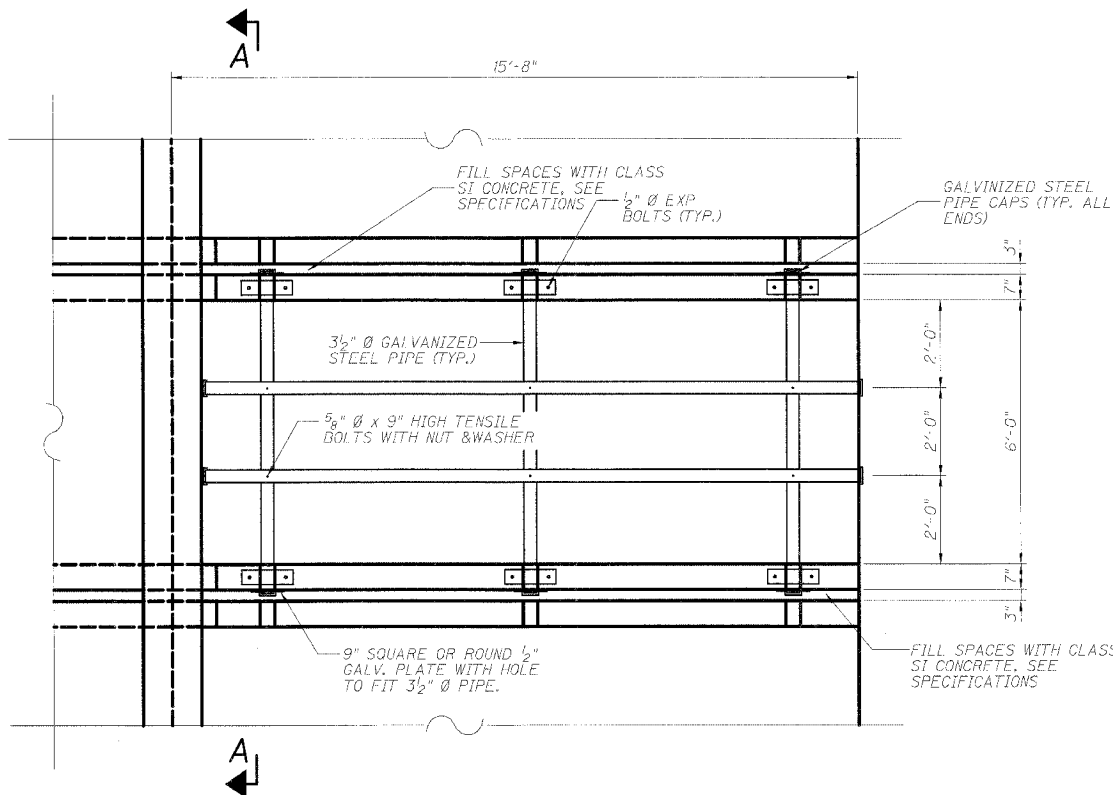
ROUTE NO.	DISTRICT	COUNTY	CONTRACT NO.	SHEET NO.
F.A.P. 545	114T-1	OGLE	119	61
FED. ROAD DIST. NO. 2		ILLINOIS	FED. AID PROJ. DIST.	

Contract # 64C31



**INLET/OUTLET ELEVATION**

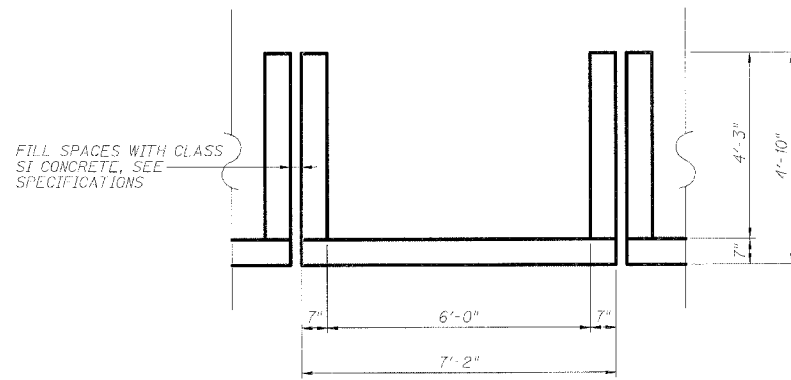
(5 END SECTIONS,  
EACH END 10 TOTAL)



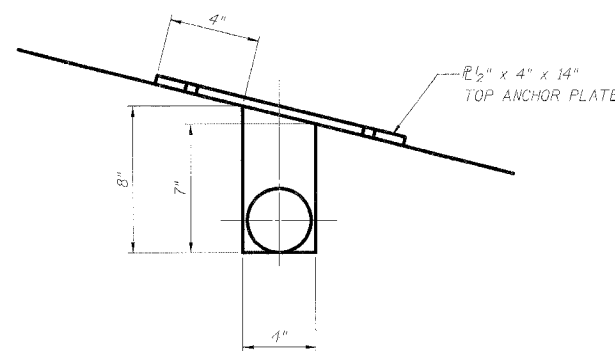
**INLET/OUTLET PLAN**

(5 END SECTIONS,  
EACH END, 10 TOTAL)

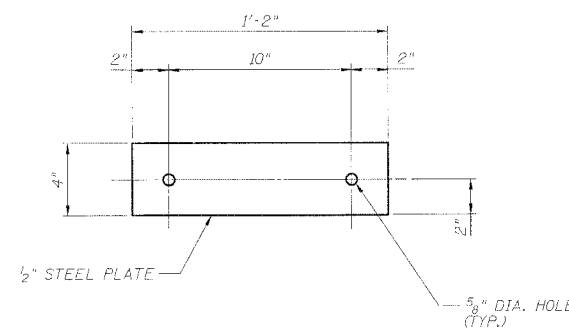
DESIGNED - ASP	200
CHECKED - WSP	EXAMINED
DRAWN - BEM	PASSED
CHECKED - ASP	ENGINEER OF BRIDGES AND STRUCTURES



**SECTION A-A**



**DETAIL 'A'**



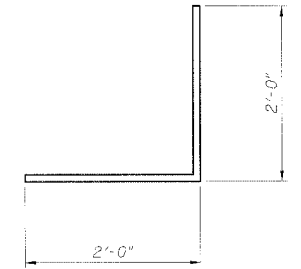
**TOP ANCHOR PLATE**

(6 EACH SECTION)  
(60 TOTAL)

**\* CONNECTION COLLAR  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
x	172	4	1'-0"	
x1	24	4	19'-7"	
x2	12	4	4'-8"	
x3	12	4	4'-0"	
CONCRETE STRUCTURES		CU. YD.	5.6	
REINFORCEMENT BARS		POUND	508	

\* FOR INFORMATIONAL PURPOSES ONLY.  
COST TO BE INCLUDED IN THE BID ITEM  
"PRECAST CONCRETE BOX CULVERT 6'x3'"



**BAR x3**

**\*\* BOX CULVERT END SECTIONS NO. 3  
BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
3 1/2" Ø GALV. STEEL PIPE	EACH	2 @ 15'-4"
3 @ 7'-4"		
1/2" x 4" x 14" GALV. ANCHOR PLATE	EACH	6
5/8" Ø x 9" GALV. BOLTS	EACH	6
1/2" Ø GALV. EXP. BOLTS	EACH	12
9" SQ. OR ROUND 1/2" GALV. PLATE	EACH	6
GALV. STEEL PIPE CAPS	EACH	10

\*\* QUANTITIES GIVEN ARE FOR EACH BOX  
CULVERT END SECTION FOR INFORMATIONAL  
PURPOSES ONLY. COST TO BE INCLUDED  
IN THE BID ITEM "BOX CULVERT END  
SECTIONS NO. 3".

**GENERAL NOTES**

STEEL PIPES SHALL CONFORM TO A.S.T.M. A-53 (TYPE E OR S) GRADE B, SCHEDULE 40, & SHALL BE GALVANIZED CONFORMING TO A.S.T.M. A-120.

STEEL PLATES SHALL CONFORM TO AASHTO M-183 & SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

BOLTS, NUTS AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATIONS AND SHALL BE GALVANIZED.

THE CONTRACT UNIT PRICE "EACH" FOR BOX CULVERT END SECTIONS NO. 3 SHALL INCLUDE THE EXPANSION BOLTS, GALVANIZED PIPES, CLASS SI CONCRETE, BOLTS, NUTS, REINFORCEMENT, WASHERS AND STEEL PLATES.


**BOX CULVERT END SECTIONS NO. 3  
PLAN & ELEVATION  
F.A.P. 545 (IL. RTE. 72)  
SECTION 114T-1  
OGLE COUNTY  
STATION 121+43.48  
STRUCTURE NO. 071-1151**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.P. 545	114T-1	OGLE	118	62
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

SHEET NO. 04  
04 SHEETS

Contract # 64C31



**Illinois Department of Transportation**  
Division of Highways  
IDOT

## SOIL BORING LOG

Page 1 of 1  
Date 5/17/06

ROUTE IL 72 DESCRIPTION P92-073-06 Box culvert on IL 72, .3 m. E. of Mt. Vernon Road LOGGED BY W. Garza

SECTION \_\_\_\_\_ LOCATION Forreston Twp. - 13 SW, SEC., TWP. 26N, RNG. 7E


COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diehdich Automatic

STRUCT. NO. 071-1042 Station \_\_\_\_\_

BORING NO. B-1b Station +18' W. of Culv. CL  
Offset 11.00R S CL  
Ground Surface Elev. 99.8 ft

DEPTH (ft)	BLOW COUNT (Blows/ft)	UNIFORMITY COEFFICIENT (Cu)	MOISTURE (%)	Soil Description	DEPTH (ft)	BLOW COUNT (Blows/ft)	UNIFORMITY COEFFICIENT (Cu)	MOISTURE (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After
									ft	ft	ft	ft	ft	ft
0		0.5	19	MEDIUM brown SILTY CLAY LOAM	0	1			95.0	95.0				
1	2				1	2								
2	1	0.3	30	MEDIUM tan fine SAND with SILTY CLAY lens	2	3	0.6	25						
3	3				3	5								
4	1	0.5	31	STIFF tan SILTY CLAY with fine SAND lens	4	3	1.1	24						
5	3				5	5								
6	2	0.6	28	SOFT tan SILT with fine SAND lens	6	4	0.3	21						
7	2				7	9								
8	3				8	12								
9	2	0.2	27	MEDIUM tan clean medium SAND	9	4								
10	2				10	5								
11	2				11	5								
12	4			LOOSE tan fine SAND	12	2								
13	5				13	3								
14	6			End of Boring due to inclement weather	14	5								
15					15									
16	4			End of Boring	16									
17	5				17									
18	9				18									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)



**Illinois Department of Transportation**  
Division of Highways  
IDOT

## SOIL BORING LOG

Page 1 of 1  
Date 4/6/06

ROUTE IL 72 DESCRIPTION P92-073-06 Box culvert (double), .3 m. E. of Mt. Vernon Road LOGGED BY J. Straling

SECTION \_\_\_\_\_ LOCATION Forreston Twp. - 13 SW, SEC., TWP. 26N, RNG. 7E

COUNTY Ogle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. 071-1042 Station \_\_\_\_\_

BORING NO. B-2b Station +10 East  
Offset 43.00R N CL  
Ground Surface Elev. 97.3 ft

DEPTH (ft)	BLOW COUNT (Blows/ft)	UNIFORMITY COEFFICIENT (Cu)	MOISTURE (%)	Soil Description	DEPTH (ft)	BLOW COUNT (Blows/ft)	UNIFORMITY COEFFICIENT (Cu)	MOISTURE (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After
									ft	ft	ft	ft	ft	ft
0		0.8	31	MEDIUM dark brown SILTY LOAM	0	2			95.5	95.0				
1	2				1	5								
2	3	1.0	25	MEDIUM tan fine SAND	2	7								
3	6				3	8								
4	2	1.0	28	MEDIUM tan SAND with GRAVEL	4	10								
5	4				5	13								
6	2			SOFT gray SILT	6	2	0.3	21						
7	2				7	6								
8	3				8	7								
9	3			MEDIUM gray SILT	9	5	0.5	20						
10	4				10	5								
11	5				11	7								
12	5			MEDIUM tan/gray SILT	12	5	0.5	20						
13	8				13	6								
14	10				14	7								
15	2			MEDIUM tan/gray SILT	15	1	0.5	18						
16	5				16	3								
17	5			End of Boring	17	5								
18	3				18									
19	4	1.4	13	STIFF tan LOAM (fill) with LIMESTONE	19	4								
20	12				20	12								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

DESIGNED -	ASP
CHECKED -	WSP
DRAWN -	BEM
CHECKED -	ASP

EXAMINED \_\_\_\_\_  
ENGINEER OF BRIDGE DESIGN

PASSED \_\_\_\_\_  
ENGINEER OF BRIDGES AND STRUCTURES

**BORING LOG**  
**F.A.P. 545 (IL. RTE. 72)**  
**SECTION 114T-1**  
**OGLE COUNTY**  
**STATION 121+43.48**  
**STRUCTURE NO. 071-1151**

BENCH MARK: BM 408  
 STA. 142+21.13, 32.12' RT., EL. 915.984  
 TOP OF ROW MARKER WEST OF CULVERT  
 AND NORTH OF IL 72.

EXISTING STRUCTURE:  
 DOUBLE 6'-0" X 5'-0" X 36'-0" CONCRETE BOX CULVERT.

NO SALVAGE.

PROPOSED IMPROVEMENTS:  
 EXISTING STRUCTURE TO BE REMOVED AND REPLACED  
 WITH A 2 CELL - 8'-0" X 4'-0" PRECAST CONCRETE BOX  
 CULVERT WITH PRECAST CONCRETE BOX  
 END SECTIONS.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

STATION 145+06.61  
 BUILT 200. BY  
 STATE OF ILLINOIS  
 IL 72 SECT. 114T-1  
 LOADING HS20  
 STR. NO. 071-1152

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 545	114T-1	OGLE	118	63
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

SHEET NO. 01  
 05 SHEETS

Contract # 64C31

**DESIGN SPECIFICATIONS**

AASHTO 2002 SPECIFICATIONS

**LOADING HS20-44**

ALLOW 50#/#SQ. FT. FOR FUTURE WEARING SURFACE.

**DESIGN STRESSES**

FIELD UNITS

$f'_c = 3,500$  PSI  
 $f_y = 60,000$  PSI (REINFORCEMENT)

PRECAST UNITS

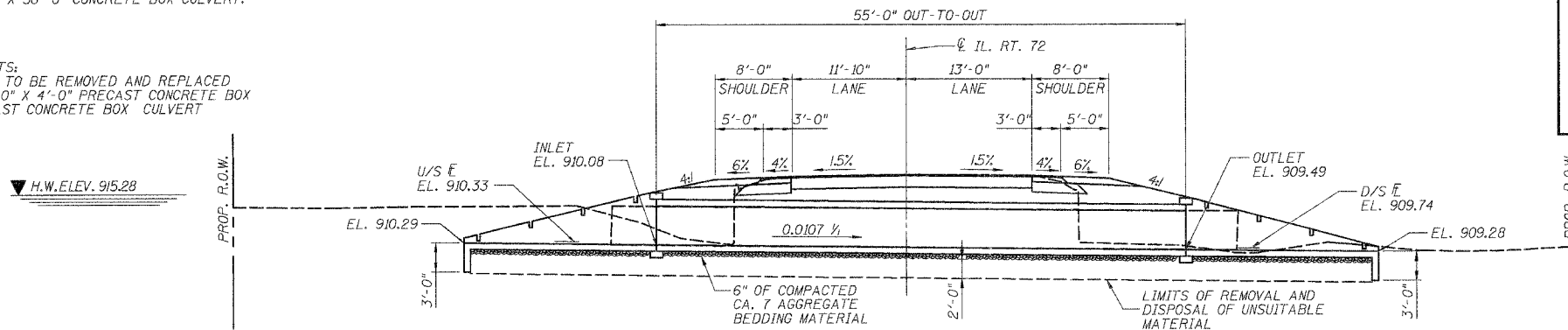
$f'_c = 5,000$  PSI  
 $f_y = 60,000$  PSI (REINFORCEMENT)

**TOTAL BILL OF MATERIALS**

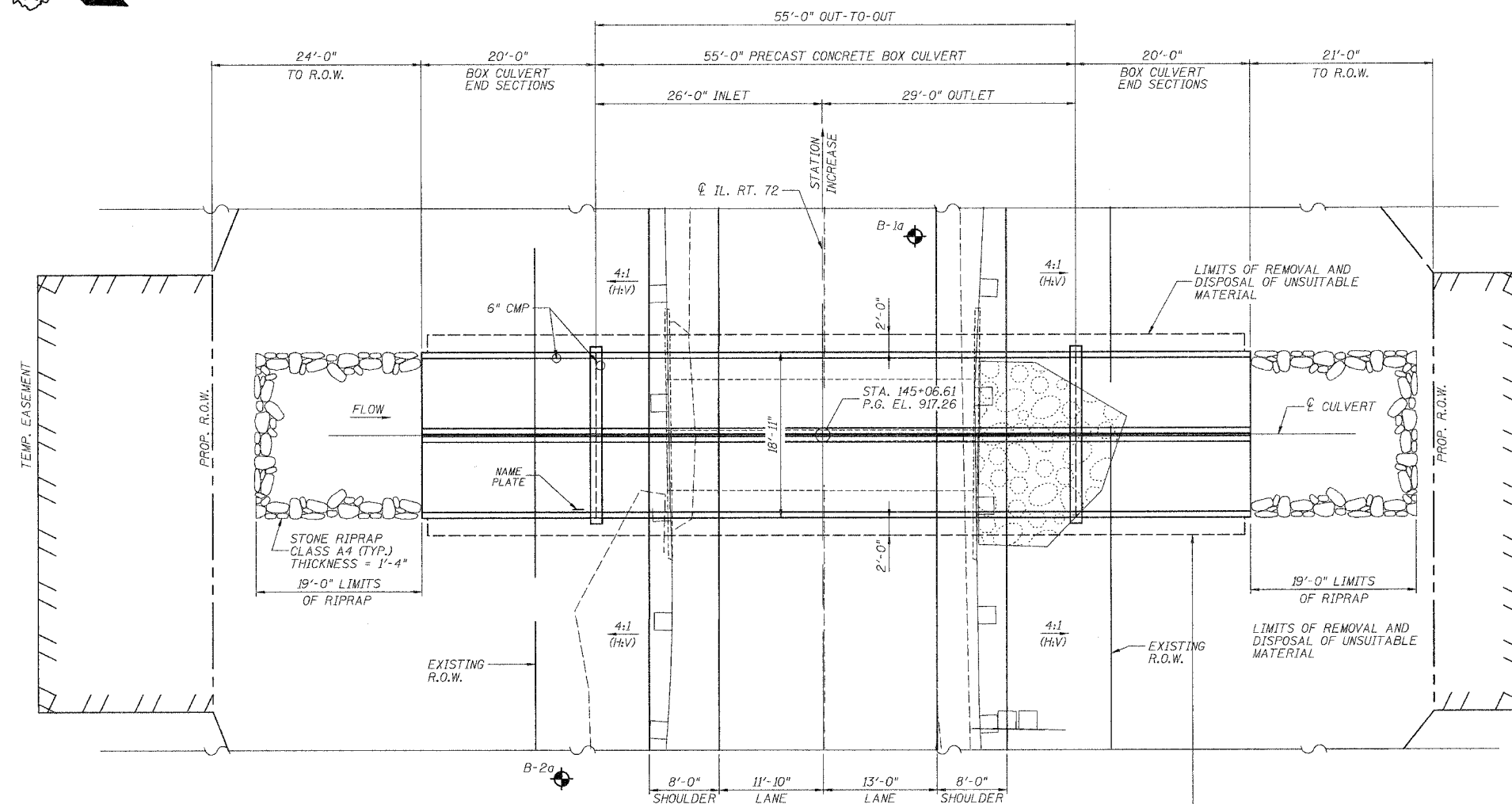
ITEM	UNIT	QUANTITY
BOX CULVERT END SECTIONS NO. 4	EACH	4
PRECAST CONCRETE BOX CULVERT 8' x 4'	FOOT	110
REMOVAL OF EXISTING STRUCTURE NO. 6	EACH	1
STONE RIPRAP, CLASS A4	SQ. YD.	80
FILTER FABRIC	SQ. YD.	80
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU. YD.	170
BREAKER-RUN CRUSHED STONE	TON	276
NAME PLATES	EACH	1

**GENERAL NOTES**

- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GR 60 (IL MODIFIED), SEE SPECIAL PROVISION.
- EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER.
- CULVERT FLOWS MUST BE MAINTAINED THROUGHOUT THE PROJECT. NORMAL FLOW SHALL BE ALLOWED TO PASS AT THE RATE IT ENTERS THE JOBSITE. HIGH FLOWS SHALL BE ALLOWED TO WITHOUT CAUSING DAMAGE TO UPSTREAM PROPERTIES.
- THE CONTRACTOR SHALL CLEAN OUT CULVERT STREAM FLOW TO THE RIGHT OF WAY LINES. THE COST SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "PRECAST CONCRETE BOX CULVERT 8'x4'".
- STRUCTURE EXCAVATION AND GRADING AROUND ENDS OF CULVERT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "PRECAST CONCRETE BOX CULVERT 8'x4'".
- PLACEMENT AND COMPACTION OF THE BACKFILL FOR CULVERT SHALL CONFORM TO SECTION 502.10 OF THE STANDARD SPECIFICATIONS. THE MATERIAL SHALL CONFORM TO SECTION 1004.05 OF THE STANDARD SPECIFICATIONS FOR COARSE AGGREGATE FOR TRENCH BACKFILL, AND SHALL BE COMPACTED TO MINIMUM OF 95% OF THE STANDARD LABORATORY DENSITY. THE ENTIRE EXCAVATION, WITHIN 2 FEET OUTSIDE OF EACH SHOULDER, SHALL BE BACKFILLED WITH TRENCH BACKFILL MATERIAL TO THE BOTTOM OF THE PROPOSED SUBGRADE. THIS TRENCH BACKFILL MATERIAL WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE CLASS OF CONCRETE INVOLVED OR OTHER UNIT PRICE ITEM OF THE WORK FOR WHICH IT IS REQUIRED.
- PRECAST CONCRETE BOX CULVERT SLAB & WALL THICKNESS TAKEN FROM AASHTO MATERIAL SPECIFICATIONS. IF FABRICATOR CHOOSES TO ALTER DIMENSIONS, IT MUST BE APPROVED BY THE ENGINEER, AND THE CALCULATIONS SHALL BE PREPARED AND SEALED BY AN ILLINOIS LICENSED STRUCTURAL ENGINEER.
- ALL LABOR AND MATERIAL REQUIRED FOR THE CONSTRUCTION OF THE CONNECTION COLLAR SHALL BE INCLUDED IN THE BID ITEM "PRECAST CONCRETE BOX CULVERT 8' x 4'".
- BOX CULVERT END SECTIONS ARE TO BE PRECAST. CONTRACTOR HAS THE OPTION OF USING CAST-IN-PLACE END SECTIONS, BUT THE DESIGN OF THE REINFORCEMENT IS THE CONTRACTORS RESPONSIBILITY AND SHALL BE APPROVED BY THE ENGINEER. IF THE CONTRACTOR ELECTS TO USE CAST-IN-PLACE END SECTIONS, NO ADJUSTMENTS IN COSTS OF THE END SECTIONS WILL BE ALLOWED.
- THE NEW NUMBER FOR THIS STRUCTURE WILL BE 071-1151.
- THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M273 (DESIGN FILL HEIGHT < 2'-0")

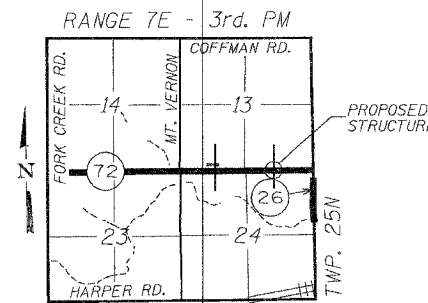


LONGITUDINAL SECTION



PLAN

WATERWAY INFORMATION				
DRAINAGE AREA (ACRES) = 296.0		LOW GRADE ELEV. (FEET) EXIST = 916.54 @ STA. 143+57 PROPOSED = 916.54 @ STA. 143+57		
FLOOD	FREQ. YR.	DISCHARGE C.F.S.	HEADWATER ELEVATION	
			EXISTING	PROPOSED
TEN-YEAR	10	192	913.54	913.40
DESIGN	50	395	915.56	915.28
BASE	100	522	916.77	916.42
EX OVT	93	498	916.64	
PR OVT	113	542		916.64



LOCATION SKETCH

DESIGNED - ASP	200
CHECKED - WSP	EXAMINED
DRAWN - BEM	PASSED
CHECKED - ASP	

ENGINEER OF BRIDGE DESIGN  
 ENGINEER OF BRIDGES AND STRUCTURES



Wayne A. Truex  
 11-3-00

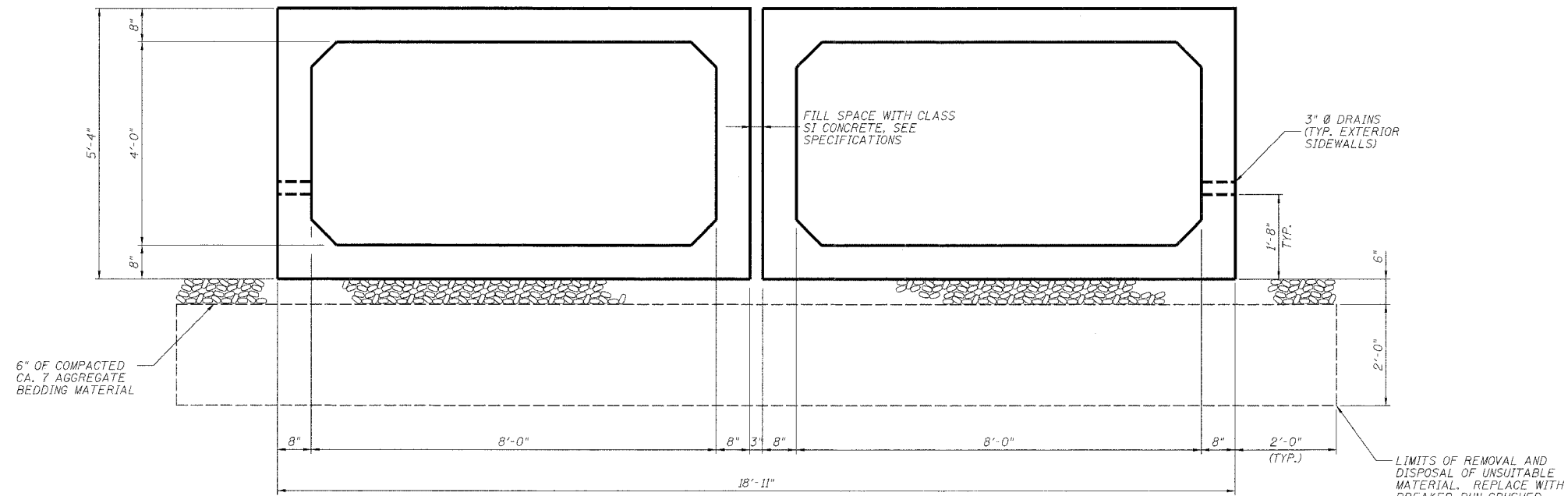
**GENERAL PLAN & ELEVATION**  
 F.A.P. 545 (IL. RTE. 72)  
 SECTION 114T-1  
 OGLE COUNTY  
 STATION 145+06.61  
 STRUCTURE NO. 071-1152



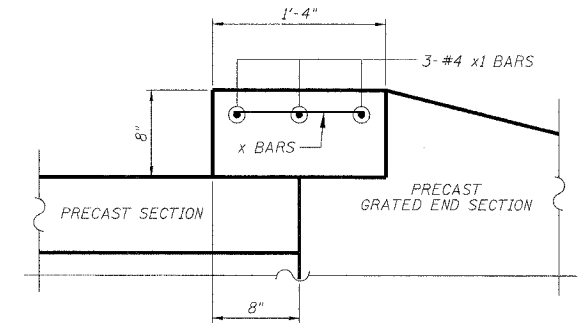
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET	SHEET NO. 02 05 SHEETS
F.A.P. 545	114T-1	OGLE	118	64	
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT			

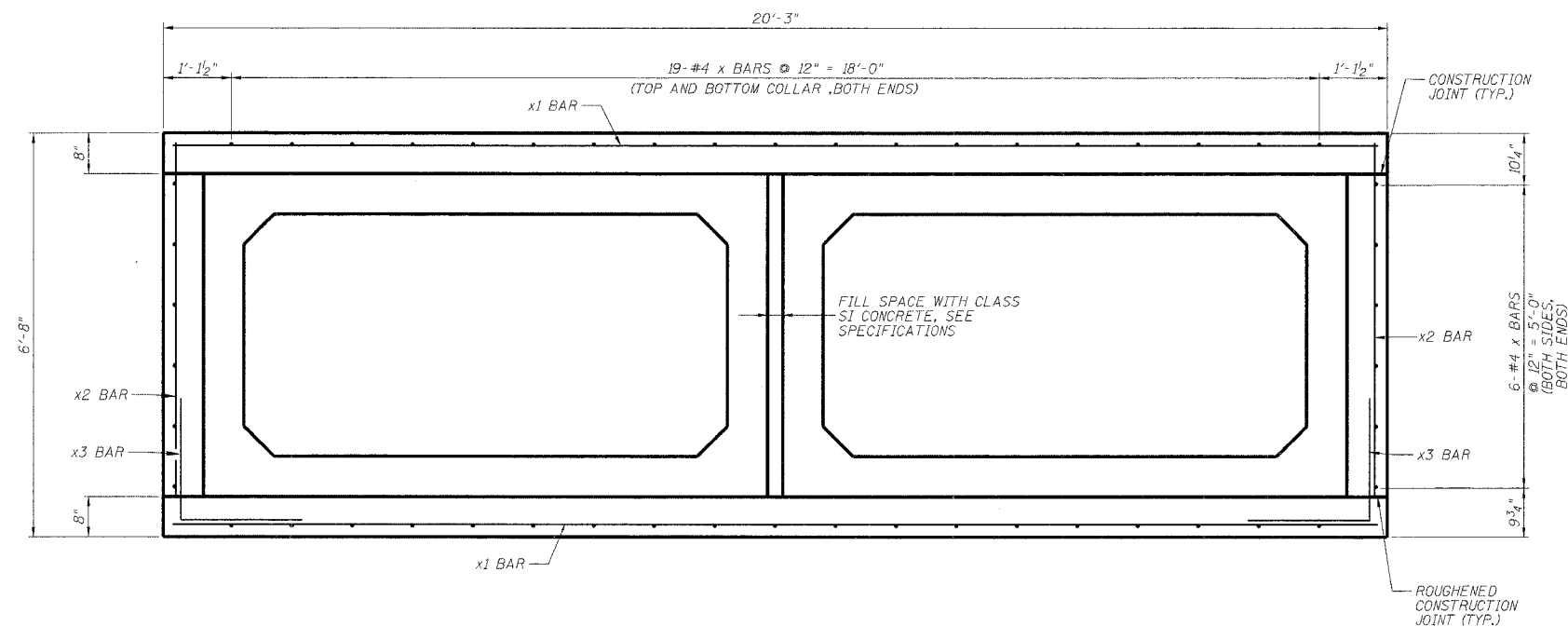
Contract # 64C31



PRECAST TYPICAL SECTION



COLLAR DETAIL



CONNECTION COLLAR SECTION

DESIGNED - ASP	200
CHECKED - WSP	EXAMINED
DRAWN - BEM	ENGINEER OF BRIDGE DESIGN
CHECKED - ASP	PASSED
	ENGINEER OF BRIDGES AND STRUCTURES

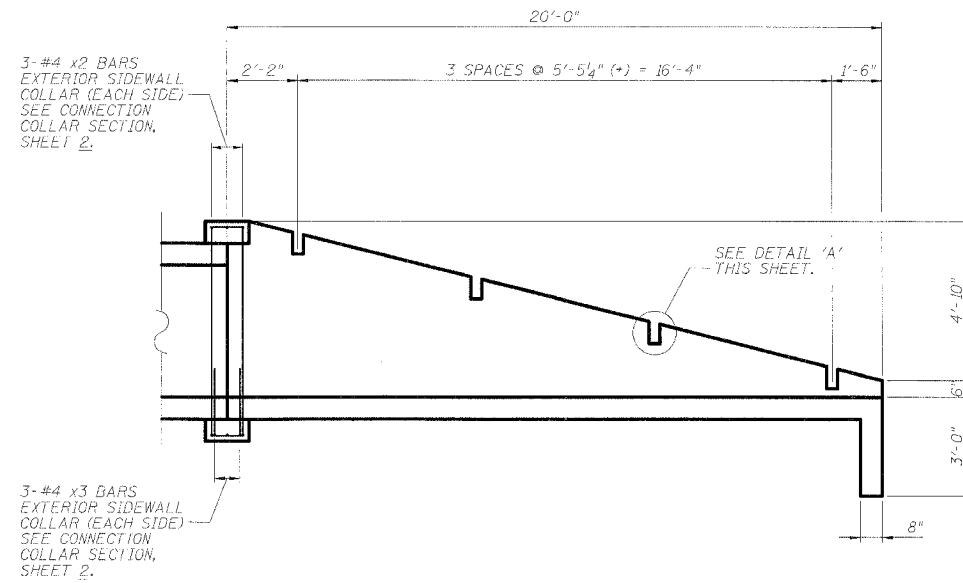
TYPICAL SECTIONS  
F.A.P. 545 (IL. RTE. 72)  
SECTION 114T-1  
OGLE COUNTY  
STATION 145+06.61  
STRUCTURE NO. 071-1152

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

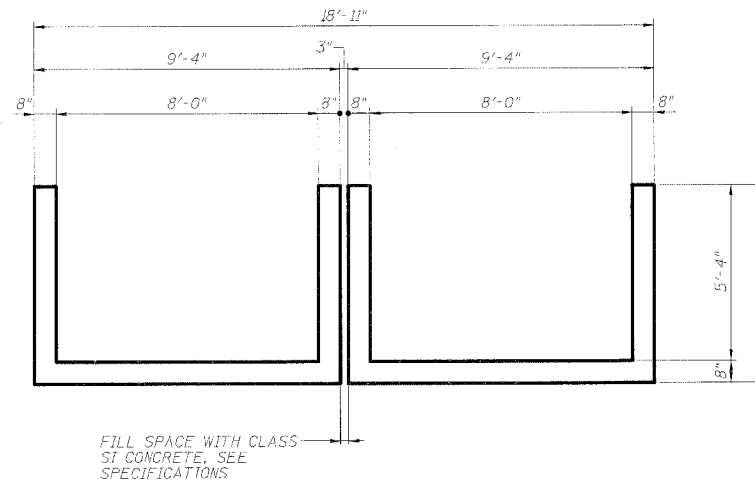
PLANS NO.	SECTION	COUNTY	DATE	SHEET NO.
F.A.P. 545	114T-1	OGLE	118	65
FED. ROAD DIST. NO. 2		ILLINOIS	FED. RD. PROJECT	

Contract # 64C31

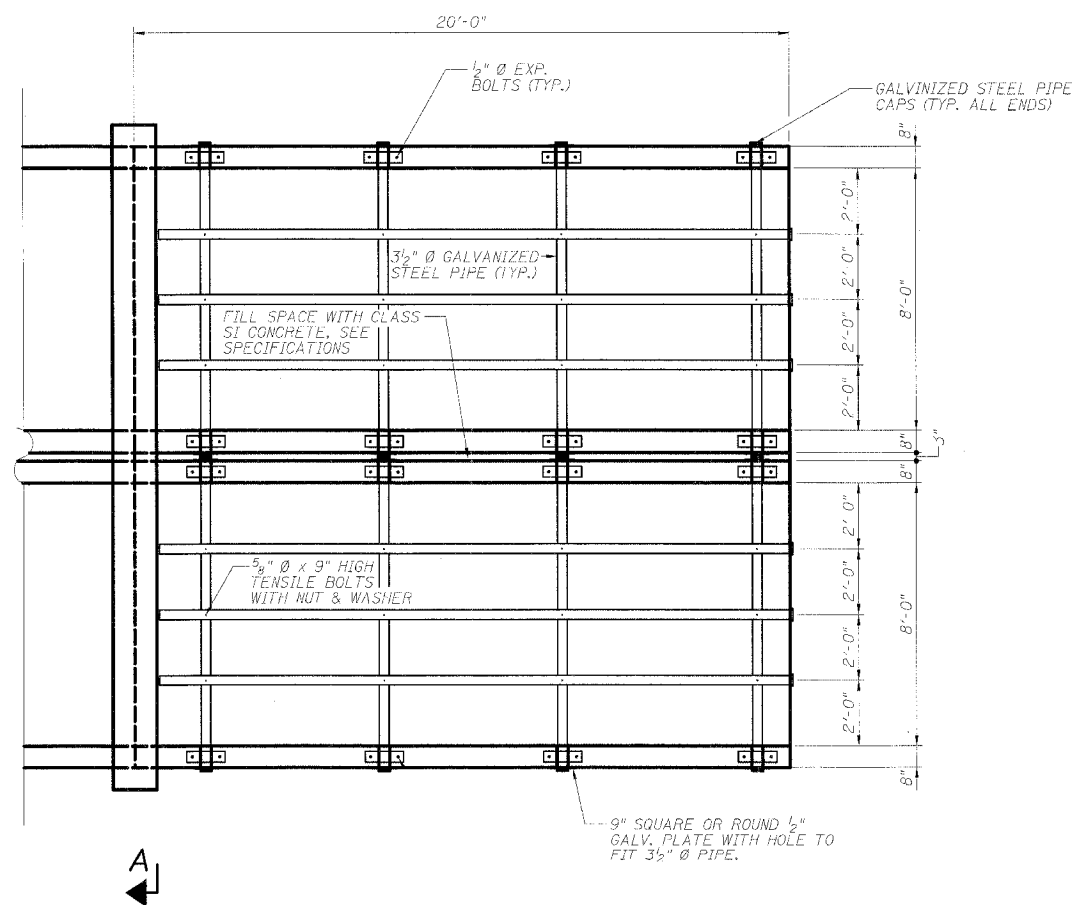
SHEET NO. 03  
05 SHEETS



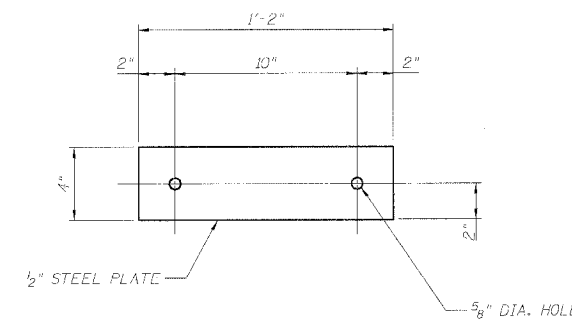
**INLET/OUTLET ELEVATION**  
(2 END SECTIONS EACH END, 4 TOTAL)



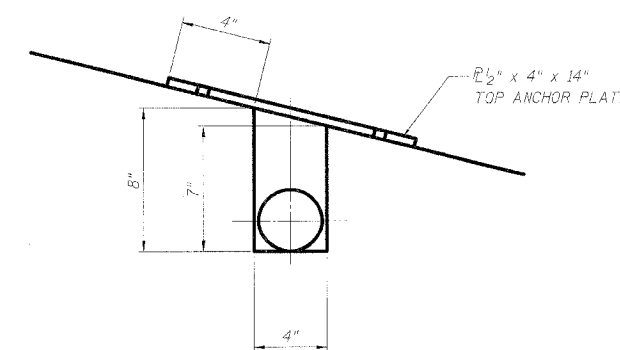
**SECTION A-A**



**INLET/OUTLET PLAN**  
(2 END SECTIONS EACH END, 4 TOTAL)



**TOP ANCHOR PLATE**  
(8 EACH SECTION)  
(32 TOTAL)

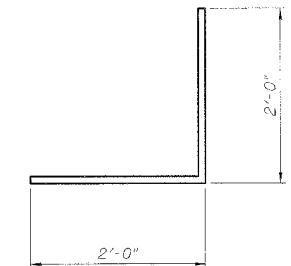


**DETAIL 'A'**

**\* CONNECTION COLLAR  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shado
x	100	4	1'-0"	
x1	12	4	19'-11"	
x2	12	4	5'-10"	
x3	12	4	4'-0"	
CONCRETE STRUCTURES			CU. YD.	3.4
REINFORCEMENT BARS			POUND	312

\* FOR INFORMATIONAL PURPOSES ONLY.  
COST TO BE INCLUDED IN THE BID ITEM  
"PRECAST CONCRETE BOX CULVERT 8'x4' "



**BAR x3**

**\*\* BOX CULVERT END SECTIONS NO. 4  
BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
3 1/2" Ø GALV. STEEL PIPE	EACH	3 @ 19'-9"
1/2" x 4" x 14" GALV. ANCHOR PLATE	EACH	1 @ 9'-6"
5/8" Ø x 9" GALV. BOLTS	EACH	12
1/2" Ø GALV. EXP. BOLTS	EACH	16
9" SQ. OR ROUND 1/2" GALV. PLATE	EACH	8
GALV. STEEL PIPE CAPS	EACH	14

\*\* QUANTITIES GIVEN ARE FOR EACH BOX CULVERT END SECTION. FOR INFORMATIONAL PURPOSES ONLY, COST TO BE INCLUDED IN THE BID ITEM "BOX CULVERT END SECTIONS NO. 4"

**GENERAL NOTES**

STEEL PIPES SHALL CONFORM TO A.S.T.M. A-53 (TYPE E OR S) GRADE B, SCHEDULE 40, & SHALL BE GALVANIZED CONFORMING TO A.S.T.M. A-120.

STEEL PLATES SHALL CONFORM TO AASHTO M-183 & SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

BOLTS, NUTS AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATIONS AND SHALL BE GALVANIZED.

THE CONTRACT UNIT PRICE "EACH" FOR BOX CULVERT END SECTION NO. 4 SHALL INCLUDE THE EXPANSION BOLTS, GALVANIZED PIPES, CLASS SI CONCRETE, BOLTS, NUTS, REINFORCEMENT, WASHERS, AND STEEL PLATES.

**BOX CULVERTS END SECTIONS NO. 4  
PLAN & ELEVATION**  
F.A.P. 545 (IL. RTE. 72)  
SECTION 114T-1  
OGLE COUNTY  
STATION 145+06.61  
STRUCTURE NO. 071-1152


DESIGNED	ASP	200
CHECKED	WSP	EXAMINED
DRAWN	BEM	PASSED
CHECKED	ASP	ENGINEER OF BRIDGE DESIGN
		ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET
F.A.P. 545	114T-1	OGLE	118	66
FED. ROAD DIST. NO. 3	BLINDEF	FED. AID PROJECT		

SHEET NO. 04  
05 SHEETS

Contract # 64031



**Illinois Department of Transportation**  
Division of Highways  
IDOT

**SOIL BORING LOG**

Page 1 of 2  
Date 5/17/06

ROUTE IL 72 DESCRIPTION P92-073-06 Box culvert on IL 72, .6 m. E. of Mt. Vernon Road LOGGED BY W. Garza

SECTION \_\_\_\_\_ LOCATION Forreston Twp. - 13 SE, SEC. , TWP. 25N, RNG. 7E


COUNTY Ogle DRILLING METHOD \_\_\_\_\_ HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 071-1041 Station \_\_\_\_\_

BORING NO. B-1a Station +23 E of Culv. CL  
Offset 10.00ft S CL  
Ground Surface Elev. 99.6 ft

DEPTH	DIAMETER	SOIL TYPE	UCS	SPT	DEPTH	DIAMETER	SOIL TYPE	UCS	SPT
(ft)	(in)		(tsf)	(blows)	(ft)	(in)		(tsf)	(blows)
0		Asphalt and Concrete			0		SOFT gray SILTY LOAM with SILT lens		
0		MEDIUM dark brown SILTY CLAY LOAM	0.9	20	8	3		0.3	18
97.10		No Recovery			5	3			
95.60					1	2	LOOSE gray dirty SAND & medium GRAVEL		
					4	4			
					25				
93.10		MEDIUM/STIFF gray SILTY LOAM	1.0	28	1	5	STIFF gray SILTY LOAM TILL	1.0	12
					9	9			
					25				
90.60		STIFF dark gray LOAM	1.2	27	3	4	MEDIUM gray SILTY CLAY TILL with SILT lens	0.9	17
					6	6			
					30				
87.60		MEDIUM dark brown LOAM	0.5	25	5	5	STIFF gray SILTY CLAY TILL with SILT lens	1.7	18
					8	8			
					30				
85.10		LOOSE gray dirty SAND & GRAVEL			1	3	MEDIUM gray SILTY CLAY TILL	0.9	18
					6	5			
					30				
83.10		STIFF gray SILTY LOAM TILL	1.8	15	1	3	STIFF gray SILTY CLAY TILL	1.3	19
					5	6			
					30				
80.60		STIFF gray SILT	1.1	20	2	4	MEDIUM gray SILT	0.8	20
					9	8			
					40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)



**Illinois Department of Transportation**  
Division of Highways  
IDOT

**SOIL BORING LOG**

Page 2 of 2  
Date 5/17/06

ROUTE IL 72 DESCRIPTION P92-073-06 Box culvert on IL 72, .6 m. E. of Mt. Vernon Road LOGGED BY W. Garza

SECTION \_\_\_\_\_ LOCATION Forreston Twp. - 13 SE, SEC. , TWP. 25N, RNG. 7E

COUNTY Ogle DRILLING METHOD \_\_\_\_\_ HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 071-1041 Station \_\_\_\_\_

BORING NO. B-1a Station +23 E of Culv. CL  
Offset 10.00ft S CL  
Ground Surface Elev. 99.6 ft

DEPTH	DIAMETER	SOIL TYPE	UCS	SPT	DEPTH	DIAMETER	SOIL TYPE	UCS	SPT
(ft)	(in)		(tsf)	(blows)	(ft)	(in)		(tsf)	(blows)
10		MEDIUM gray SILT			10				
11					11			0.8	21
14					14				
58.10		End of Boring							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

DESIGNED -	ASP
CHECKED -	WSP
DRAWN -	BEM
CHECKED -	ASP

EXAMINED	200
PASSED	ENGINEER OF BRIDGE DESIGN
	ENGINEER OF BRIDGES AND STRUCTURES

**BORING LOG**  
**F.A.P. 545 (IL. RTE. 72)**  
**SECTION 114T-1**  
**OGLE COUNTY**  
**STATION 145+06.61**  
**STRUCTURE NO. 071-1152**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Page 1 of 2

Date 4/21/06

Illinois Department of Transportation  
Division of Highways  
IDOT

**SOIL BORING LOG**

ROUTE IL 72 DESCRIPTION P92-073-06 Box culvert (double), .6 m. E. of Mt. Vernon Road on IL 72 LOGGED BY J. Strating

SECTION \_\_\_\_\_ LOCATION Forreston Twp. - 13SE, SEC. , TWP. 25N, RNG. 7E

COUNTY Ogle DRILLING METHOD \_\_\_\_\_ HAMMER TYPE B-53 Dierich Automatic

STRUCT. NO. 071-1041  
Station \_\_\_\_\_

BORING NO. B-2a  
Station +40 W. of Culv. CL  
Offset 29.00R N CL  
Ground Surface Elev. 96.4 ft

SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT	UCS Failure Mode	SPT (N)	DEPTH (ft)	BLOW COUNT	UCS Failure Mode	SPT (N)
MEDIUM black SILTY CLAY LOAM	74.90	2	0.8 P	21	74.90	1	0.3 P	21
STIFF black SILTY CLAY LOAM	94.40	3	1.3 P	20	72.90	4		
MEDIUM gray/brown SILTY CLAY LOAM	90.40	3	0.8 B	29	69.90	5		
VERY SOFT gray/brown SILTY LOAM	87.40	1	0.2 P	22	67.90	8	0.5 P	22
DENSE tan/gray dirty SAND with GRAVEL	85.40	3			65.40	8	0.5 P	22
MEDIUM brown medium SAND with SILT lens	82.40	5			62.90	12	0.5 P	22
SOFT gray SILT	80.40	12	0.3 P	20	60.40	11	2.4 B	19
MEDIUM gray SILT	77.90	7	0.5 P	21	57.90	8	0.5 P	20

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrator)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

Page 2 of 2

Date 4/21/06

Illinois Department of Transportation  
Division of Highways  
IDOT

**SOIL BORING LOG**

ROUTE IL 72 DESCRIPTION P92-073-06 Box culvert (double), .6 m. E. of Mt. Vernon Road on IL 72 LOGGED BY J. Strating

SECTION \_\_\_\_\_ LOCATION Forreston Twp. - 13SE, SEC. , TWP. 25N, RNG. 7E

COUNTY Ogle DRILLING METHOD \_\_\_\_\_ HAMMER TYPE B-53 Dierich Automatic

STRUCT. NO. 071-1041  
Station \_\_\_\_\_

BORING NO. B-2a  
Station +40 W. of Culv. CL  
Offset 29.00R N CL  
Ground Surface Elev. 96.4 ft

SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT	UCS Failure Mode	SPT (N)
MEDIUM gray SILT (continued)	55.40	4		
End of Boring		8		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrator)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

DESIGNED - ASP	200
CHECKED - WSP	EXAMINED
DRAWN - BEM	ENGINEER OF BRIDGE DESIGN
CHECKED - ASP	PASSED
	ENGINEER OF BRIDGES AND STRUCTURES

BORING LOG  
F.A.P. 545 (IL. RTE. 72)  
SECTION 114T-1  
OGLE COUNTY  
STATION 145+06.61  
STRUCTURE NO. 071-1152

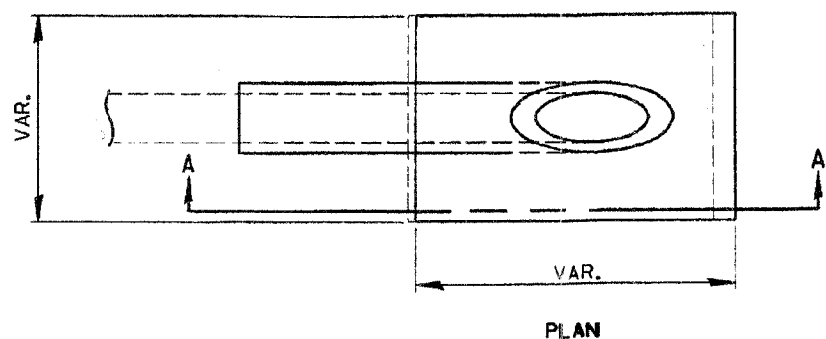
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1		118	68

STA. \_\_\_\_\_ TO STA. \_\_\_\_\_  
 FED. ROAD DIST. NO. \_\_\_\_\_ ILLINOIS FED. AID PROJECT

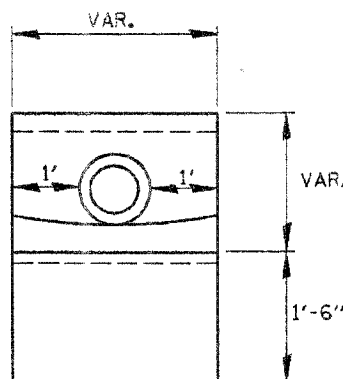
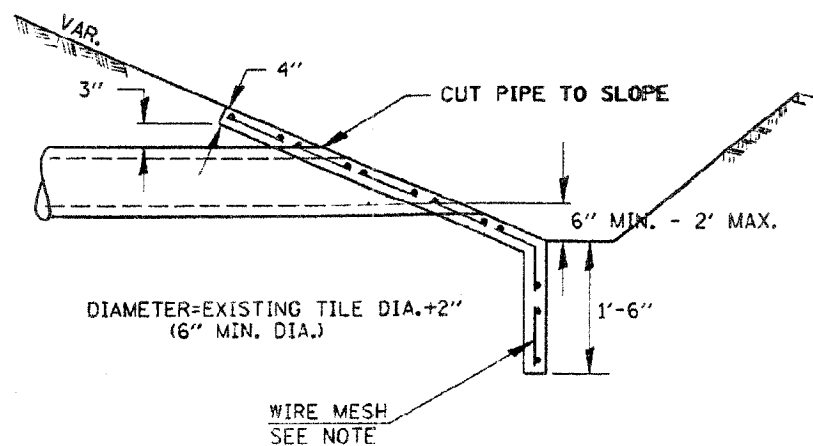
• CARROLL & OGLE

**NOTES**

1. ANY STORM SEWER OR FIELD TILE OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.
2. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ. FT.



**PLAN**

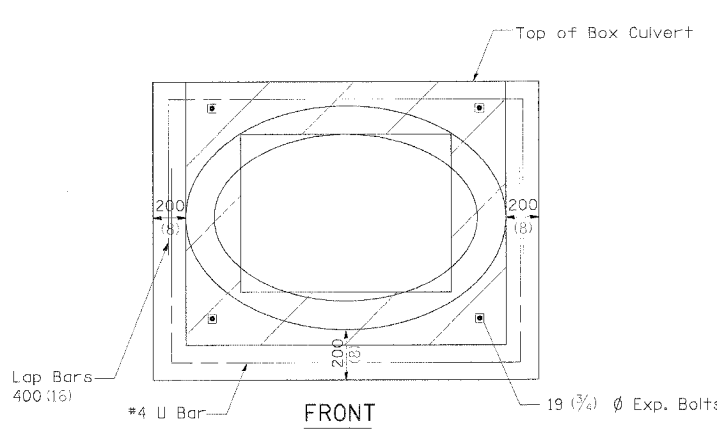
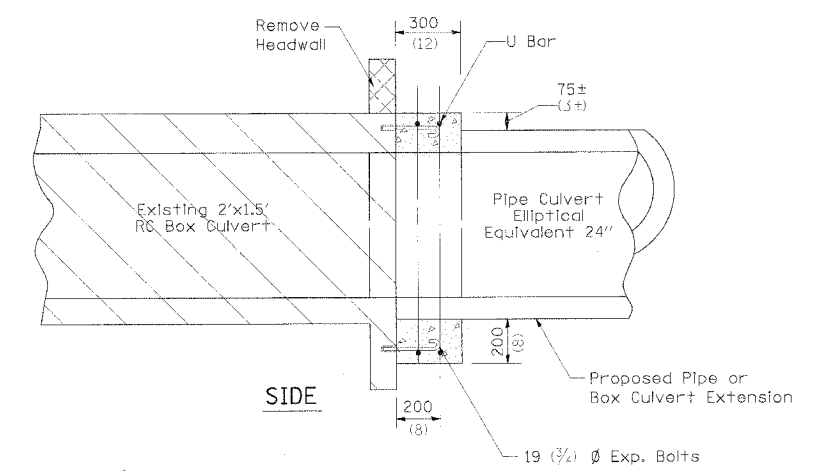
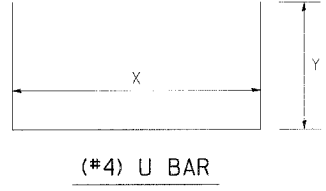
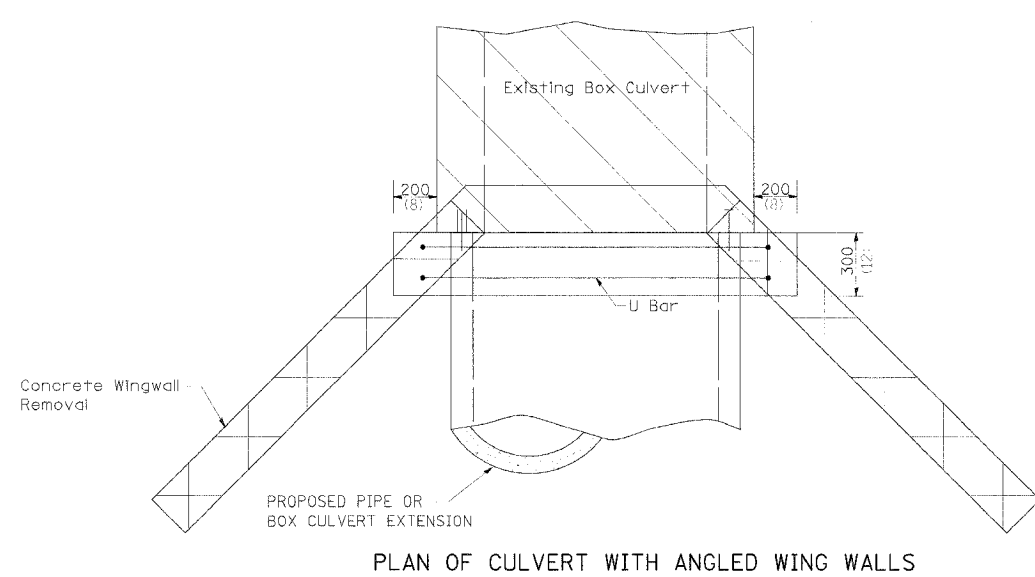


**CLASS SI CONCRETE HEADWALLS**

PLOT DATE = 12/11/2006  
 FILE NAME = M:\V\Co\10832\Dist 2 Var\11-72\FINAL-dist-standard.dgn  
 PLOT SCALE = 0.00200 = 1/500  
 REFERENCE = SHEET #

# DETAIL FOR CONCRETE COLLAR FOR BOX CULVERT EXTENSION

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	1141-1		118	69
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CARROLL & OGLE				



### PLACEMENT DETAILS FOR EXPANSION BOLTS

H OR S	NUMBER OF EXPANSION BOLTS REQUIRED PER SIDE			
	EXTENSIONS < 4.57m (15')		EXTENSIONS > 4.57m (15')	
	NUMBER	SPACING	NUMBER	SPACING
600 (24)	*		*	
750 (30)	2	450 (18)	2	450 (18)
900 (36)	2	600 (24)	2	600 (24)
1200 (48)	3	450 (18)	3	450 (18)
1500 (60)	4	400 (16)	3	600 (24)
1800 (72)	5	375 (15)	4	500 (20)
2100 (84)	5	450 (18)	4	600 (24)
2400 (96)	6	375 (15)	5	525 (21)
2700 (108)	6	475 (19)	5	600 (24)
3000 (120)	7	450 (18)	6	525 (21)
3300 (132)	8	425 (17)	6	600 (24)
3600 (144)	8	475 (19)	7	550 (22)

\* MINIMUM ONE PER SIDE

### Bill of Materials

STATION	DIMENSIONS		U Bar		EXPANSION BOLTS No.	CONCRETE COLLAR Cu. Yd	REINF. BARS LBS
	X	Y	No.	Length			
1226+49	4'-0"	2'-6"	4	9'-0"	4	0.55	24.00
1227+13	4'-0"	2'-6"	4	9'-0"	4	0.55	24.00
Total					8	1.10	48.00

### General Notes

Concrete Collars shall be constructed of Class SI Concrete in accordance with Section 503 of the Standard Specifications

Reinforcement bars shall conform to Section 508 of the Standard Specifications.

The concrete will be paid for at the contract unit price per cubic meter (cubic yard) for CONCRETE COLLAR. Reinforcement will be paid for at the contract unit price per kilogram (pound) for REINFORCEMENT BARS. Expansion Bolts, when required, will be paid for at the contract unit price each for EXPANSION BOLTS of the size indicated, which price shall include furnishing, drilling holes, and installing the expansion bolts complete in place. These bolts shall extend at least 200 (8 inches) into the new concrete.

PLOT DATE = 12/11/2006  
 FILE NAME = N:\P\p\0632\Draw 2 Vw-UL-72\FINAL-dist-standard.dgn  
 PLOT SCALE = 80.000 / IN.  
 REFERENCE = None

# STORM WATER POLLUTION PREVENTION PLAN EROSION CONTROL PLAN

CONTRACT NO. 64C31				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1	•	118	70
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				
• CARROLL & OGLE				

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 PURPOSE OF THIS PLAN IS TO 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 AMOUNT OF 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 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 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 THE PLANS. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

#### SITE DESCRIPTION

##### DESCRIPTION OF CONSTRUCTION ACTIVITY:

THIS PROJECT CONSISTS OF REMOVING AND REPLACING SIX (6) CULVERTS ALONG IL 72 BETWEEN SHANNON AND IL 26

##### DESCRIPTION OF INTENDED SEQUENCE OF ACTIVITIES:

THE SEQUENCE OF EVENTS ARE AS FOLLOW: CLEARING, EMBANKMENT, EXCAVATION, GRADING AND PAVING. THIS PROJECT WILL BE CONSTRUCTED IN SEGMENTS AS SHOWN IN THE "STAGING PLANS".

TOTAL CONSTRUCTION SITE (CONSTRUCTION LIMIT TO CONSTRUCTION LIMIT) 7.15 ACRES

PROPOSED R.O.W (TOTAL PARCEL AREA) 2.629 ACRES

DISTURBED BY EXCAVATION (E.O.P TO CONSTRUCTION LIMIT) 4.61 ACRES

#### SUPPORTING REPORTS AND PLANS

THE FOLLOWING ASSISTED IN DEVELOPING THE EROSION CONTROL PLAN AS REFERENCED DOCUMENTS:

SOIL PROFILE SHEETS, SOILS REPORTS, BORING LOGS  
USGS DRAINAGE MAPS, PROJECT PLAN DOCUMENTS

#### DRAINAGE TRIBUTARIES RECEIVING WATER FROM CONSTRUCTION SITE

UN-NAMED TRIBUTARY OF LOST CREEK

UN-NAMED TRIBUTARY OF LEAF RIVER

#### EROSION CONTROLS AND SEDIMENT CONTROL PROCEDURES

##### STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:

PERIMETER EROSION CONTROL SHALL BE PLACED PRIOR TO BEGINNING EARTHWORK.

##### STABILIZATION PRACTICES DURING CONSTRUCTION:

AS EARTH EXCAVATION AND EMBANKMENT ARE BEING COMPLETED THE CONTRACTOR SHALL PLACE DITCH CHECKS, INLET AND PIPE PROTECTION, EROSION CONTROL BLANKET, AND SEEDING AS STAGES OF THE PROJECT ARE COMPLETED. PERIMETER EROSION BARRIER WILL BE INSTALLED AT ADDITIONAL LOCATIONS AS THE PROJECT PROGRESSES. SEEDING SHALL BE COMPLETED AS SPECIFIED IN THE EROSION CONTROL/ SEEDING MOBILIZATION AND TEMPORARY SEEDING SPECIAL PROVISION.

##### MAINTENANCE AFTER FINAL GRADING

TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED WITH THE 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 RESEDED.

PLOT DATE = 12/11/2006  
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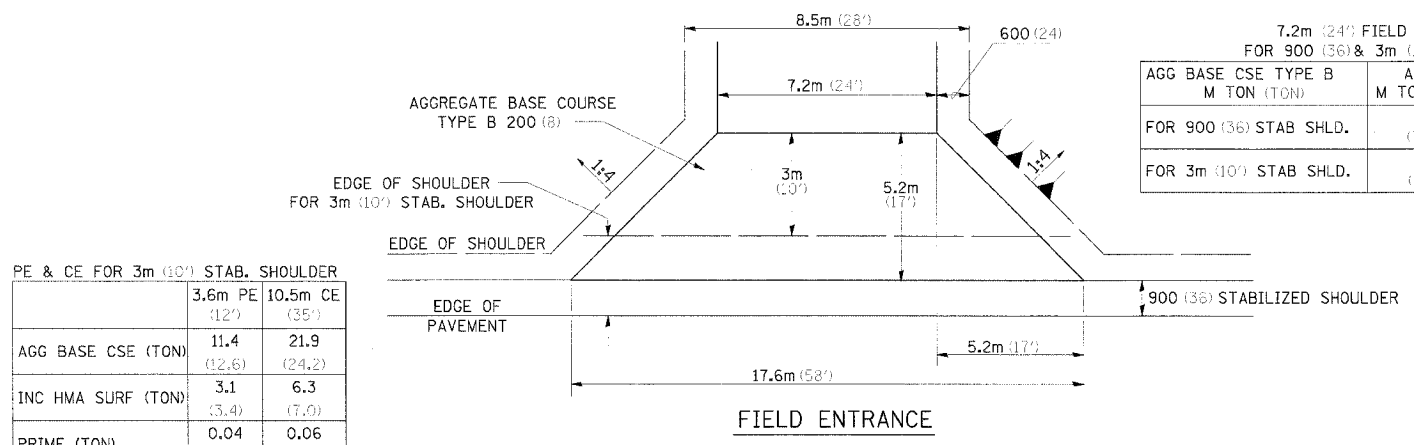
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1		118	71
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• CARROLL & OGLE				

# HOT-MIX ASPHALT APPROACHES & MAILBOX TURNOUTS

7.2m (24') FIELD ENTRANCE FOR 900 (36) & 3m (10') SHOULDERS

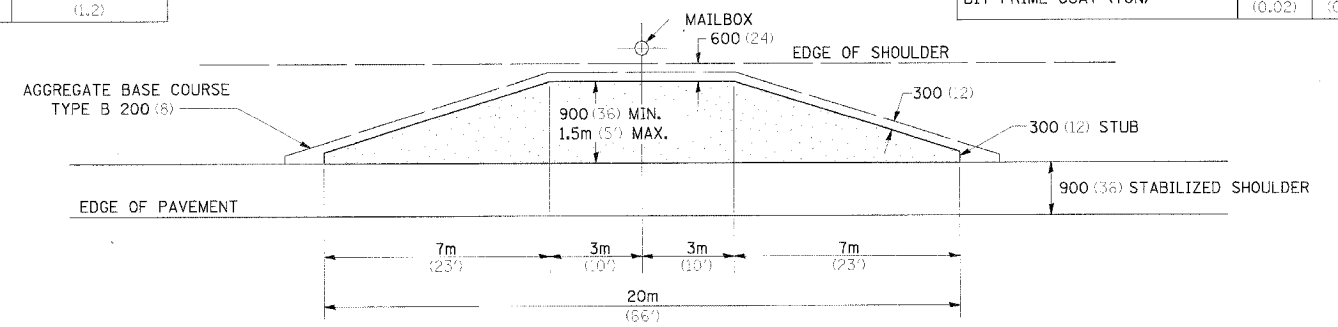
AGG BASE CSE TYPE B M TON (TON)	APRON M TON (TON)	PER METER (FOOT) ADD. RUN
FOR 900 (36) STAB SHLD.	31.3 (35.3)	3.5 (1.2)
FOR 3m (10') STAB SHLD.	14.9 (17.2)	3.5 (1.2)

	900 (36)	1.5m (5')
AGG BASE CSE T-B (TON)	10.7 (12.8)	14.4 (15.9)
INC BIT SURF 50 (2) (TON)	2.2 (2.4)	3.4 (3.8)
BIT PRIME COAT (TON)	0.02 (0.02)	0.04 (0.04)



PE & CE FOR 3m (10') STAB. SHOULDER

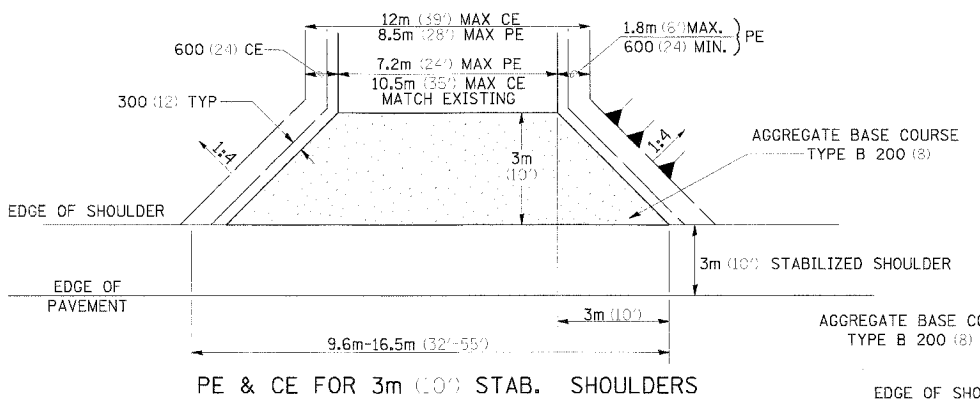
	3.6m PE (12')	10.5m CE (35')
AGG BASE CSE (TON)	11.4 (12.6)	21.9 (24.2)
INC HMA SURF (TON)	3.1 (3.4)	6.3 (7.0)
PRIME (TON)	0.04 (0.04)	0.06 (0.07)



10.5m (35') COMMERCIAL ENTRANCE FOR 900 (36) STAB. SHOULDER

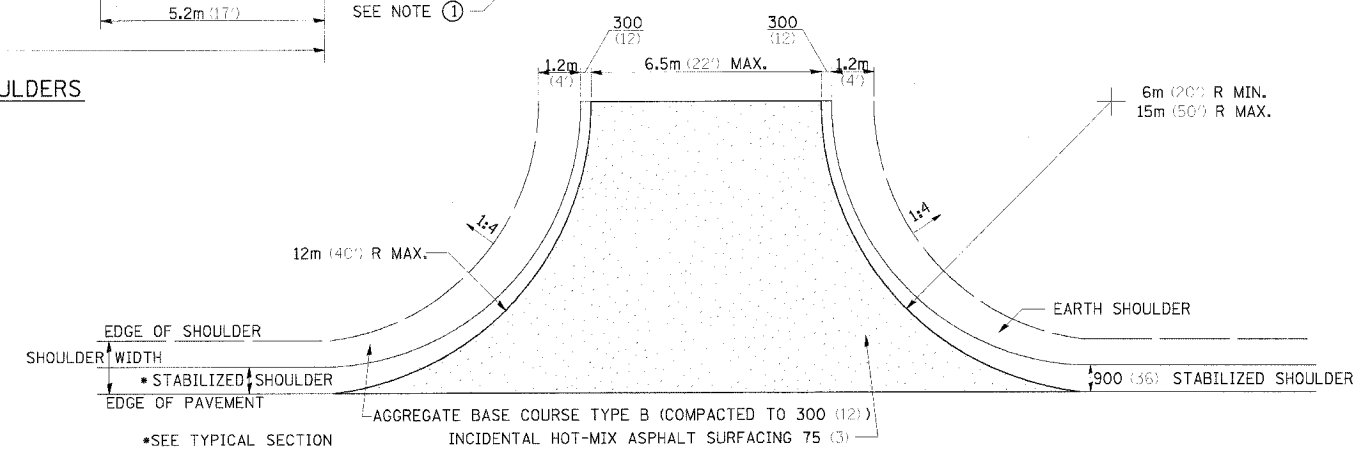
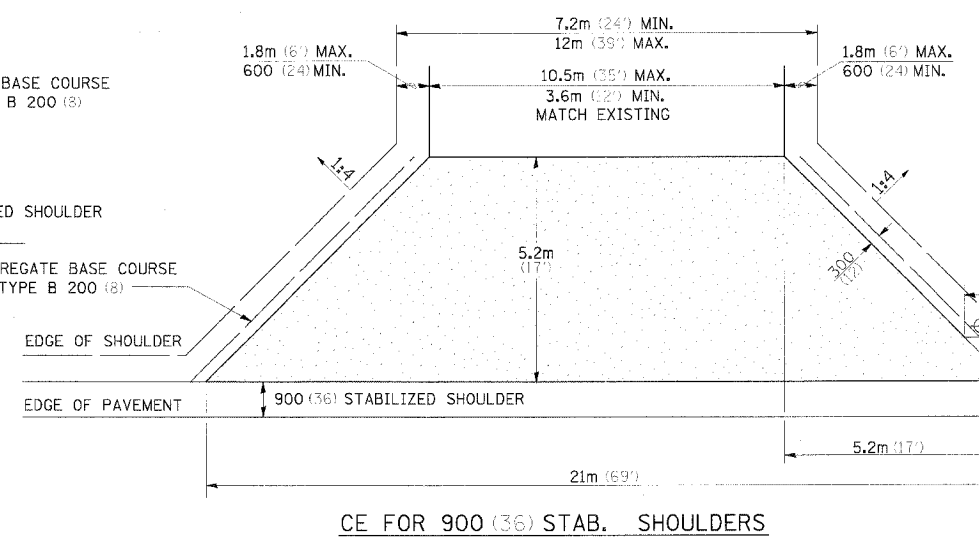
	900 (36)	1.5m (5')	PER METER ENTR (FOOT)
AGG BASE CSE T-B (TON)	47.4 (52.2)	48.7 (53.7)	5.7 (1.9)
INC HMA SURF 50 (2) (TON)	13.4 (14.8)	14.0 (15.4)	1.6 (0.55)
BIT PRIME COAT (TON)	0.14 (0.15)	0.15 (0.16)	0.018 (0.006)

- NOTE**
- ALL ENTRANCES TO BE CONSTRUCTED WITH AN 8" AGGREGATE BASE COURSE, TYPE B AND WITH A 2" INCIDENTAL HOT-MIX ASPHALT SURFACING, UNLESS OTHERWISE NOTED.
  - TURNOUTS ARE TO BE CONSTRUCTED ON THE APPROACH SIDE OF ALL PE & CE REGARDLESS IF A MAILBOX IS PRESENT.
  - ALL PE & CE ARE TO BE SURFACED TO RIGHT OF WAY LINE. AREA BEHIND RIGHT OF WAY SHALL MATCH EXISTING SURFACE.
  - FE ARE TO BE AGGREGATE TO RIGHT OF WAY OR TOUCH DOWN WHICH EVER IS GREATER.
  - QUANTITIES SHOWN ARE FOR NEW CONSTRUCTION.
  - ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



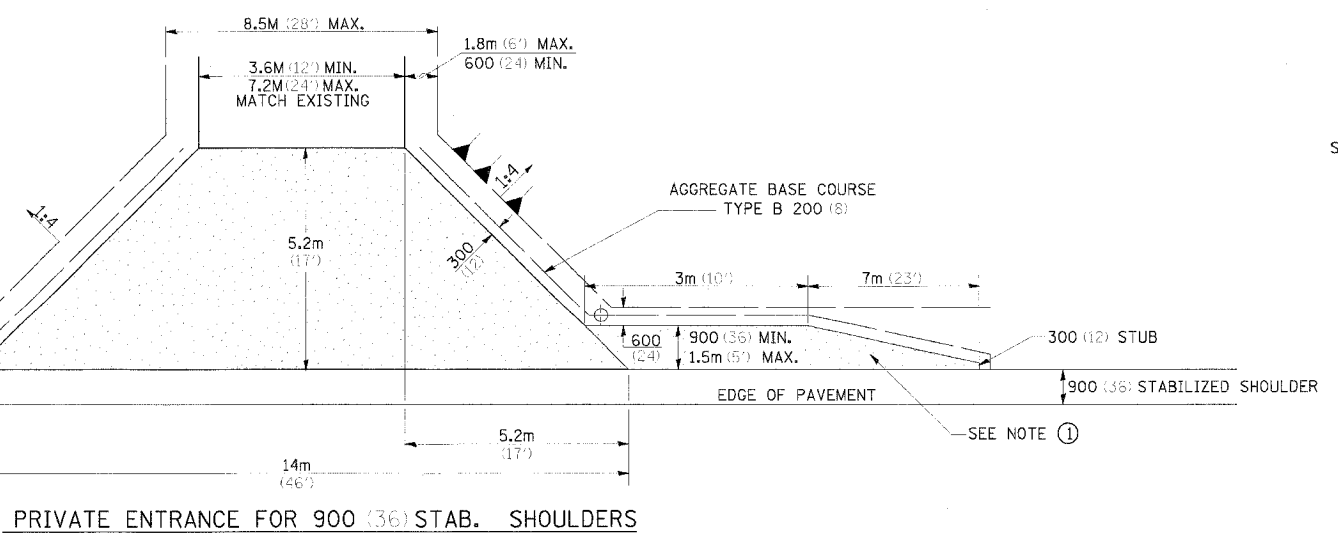
3.6m (12') PRIVATE ENTRANCE FOR 900 (36) STAB. SHOULDER

	900 (36)	1.5m (5')	PER METER ENTR (FOOT)
AGG BASE CSE (TON)	29.4 (32.4)	30.8 (33.9)	0.64 (0.7)
INC HMA SURF 50 (2) (TON)	7.8 (8.6)	8.4 (9.3)	0.17 (0.19)
BIT PRIME COAT (TON)	0.08 (0.09)	0.09 (0.10)	0.006 (0.002)



	6m (20') RADIUS			9m (30') RADIUS			12m (40') RADIUS		
	5.5m (18')	6m (20')	6.5m (21')	5.5m (18')	6m (20')	6.5m (21')	5.5m (18')	6m (20')	6.5m (21')
AGG BASE CSE T-B (TON)	20 (22.1)	21.6 (23.8)	23.1 (25.5)	37 (40.8)	39.5 (43.5)	42 (46.3)	57.9 (63.8)	61.3 (67.6)	64.7 (71.3)
INC HMA SURF 75 (3) (TON)	5.5 (6.1)	6.2 (6.8)	6.6 (7.25)	10.5 (11.6)	11.2 (12.4)	12.1 (13.3)	16.7 (18.4)	17.7 (19.5)	18.7 (20.6)
BIT PRIME CSE T-B (TON)	0.05 (0.06)	0.06 (0.07)	0.06 (0.07)	0.11 (0.12)	0.11 (0.12)	0.12 (0.13)	0.16 (0.18)	0.18 (0.20)	0.19 (0.21)

NOTE: USE 50 (2) INC. HMA SURF. ON EXISTING RETURNS

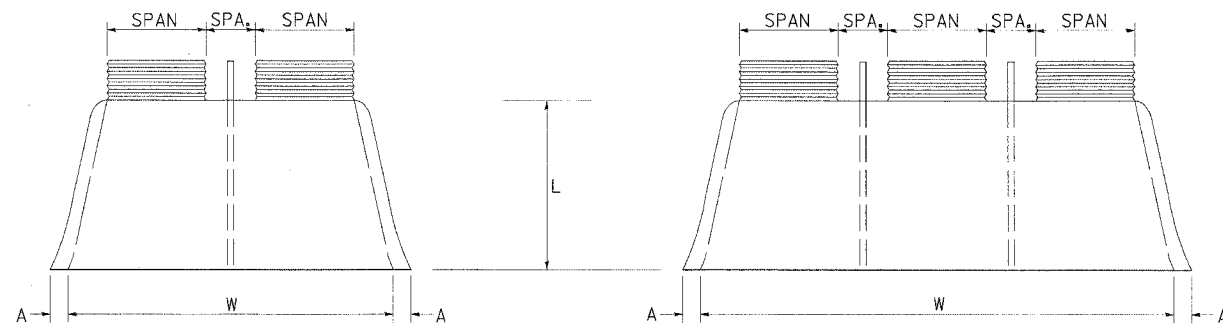


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 REFERENCE = SHEET#



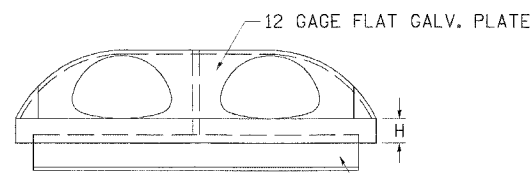
F.A.P. RTE. 545	SECTION 114T-1	COUNTY	TOTAL SHEET SHEETS NO. 118   72
STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS	FED. AID PROJECT
• CARROLL & OGLE			

# CORRUGATED STEEL PIPE MULTIPLE END SECTIONS

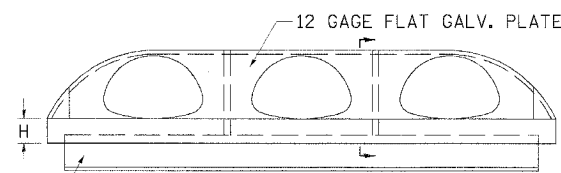


PLAN

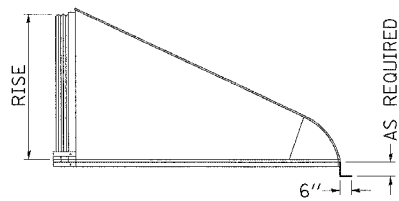
PLAN



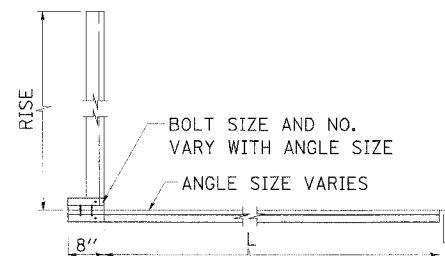
ELEVATION



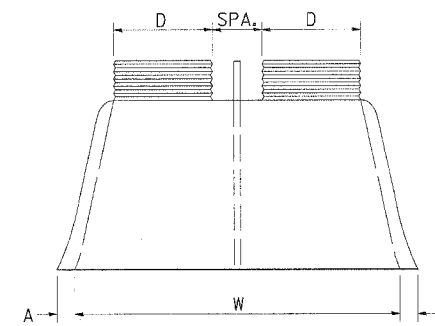
ELEVATION



SIDE VIEW

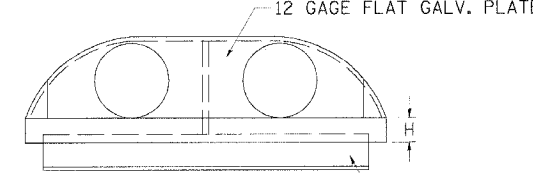


SECTION VIEW

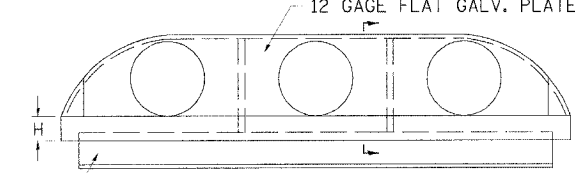


PLAN

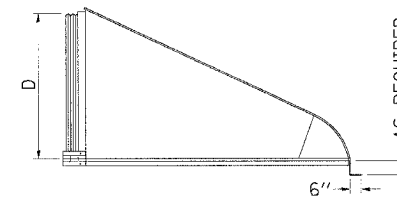
PLAN



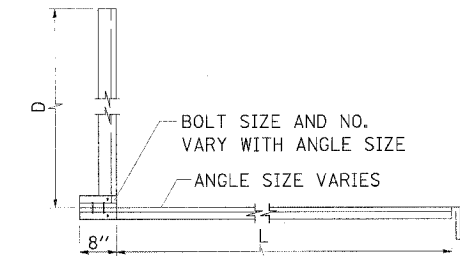
ELEVATION



ELEVATION



SIDE VIEW



ANGLE SECTION VIEW

PIPE-ARCH MULTIPLE INLET END SECTIONS										
SPAN x RISE 2'-2 3/4" x 1 1/2"	EQUIV. ROUND	GAGE	SPA. (In)	A (In)	H (In)	L (In)	DOUBLE W	TRIPLE W	REINFORCING ANGLE	
17 x 13	15	16	12	6 1/2	6	20	59	88	2 x 2 x 1/4	
21 x 15	18	16	12	7 1/2	6	24	69	102	2 x 2 x 1/4	
24 x 18	21	16	12	8	6	28	78	114	2 x 2 x 1/4	
28 x 20	24	16	12	8	6	32	88	128	5 x 3 x 1/4	
35 x 24	30	14	12	10	6	39	107	154	5 x 3 x 1/4	
42 x 29	36	14	14	12	7 1/2	46	131	187	5 x 3 x 1/4	
49 x 33	42	12	17	13 1/2	9	53	150	216	5 x 3 x 1/4	
57 x 38	48	12	19	18 1/2	12	62	166	242	6 x 4 x 3/8	
64 x 43	54	12	22	18	12	69	188	274	6 x 4 x 3/8	
71 x 47	60	12/10	24	18 1/2	12	77	209	304	6 x 4 x 3/8	
77 x 62	66	12/10	26	18	12	77	229	332	6 x 4 x 3/8	
83 x 67	72	12/10	28	18	12	77	243	354	6 x 4 x 3/8	
SPAN x RISE 3'-x1' & 5'-x1'	EQUIV. ROUND	GAGE	SPA. (In)	A (In)	H (In)	L (In)	DOUBLE W	TRIPLE W	REINFORCING ANGLE	
60 x 46	54	12	20	18	12	70	182	262	6 x 4 x 3/8	
66 x 51	60	12/10	22	18	12	77	202	290	6 x 4 x 3/8	
73 x 55	66	12/10	25	18	12	77	224	322	6 x 4 x 3/8	
81 x 69	72	12/10	27	18	12	77	246	354	6 x 4 x 3/8	

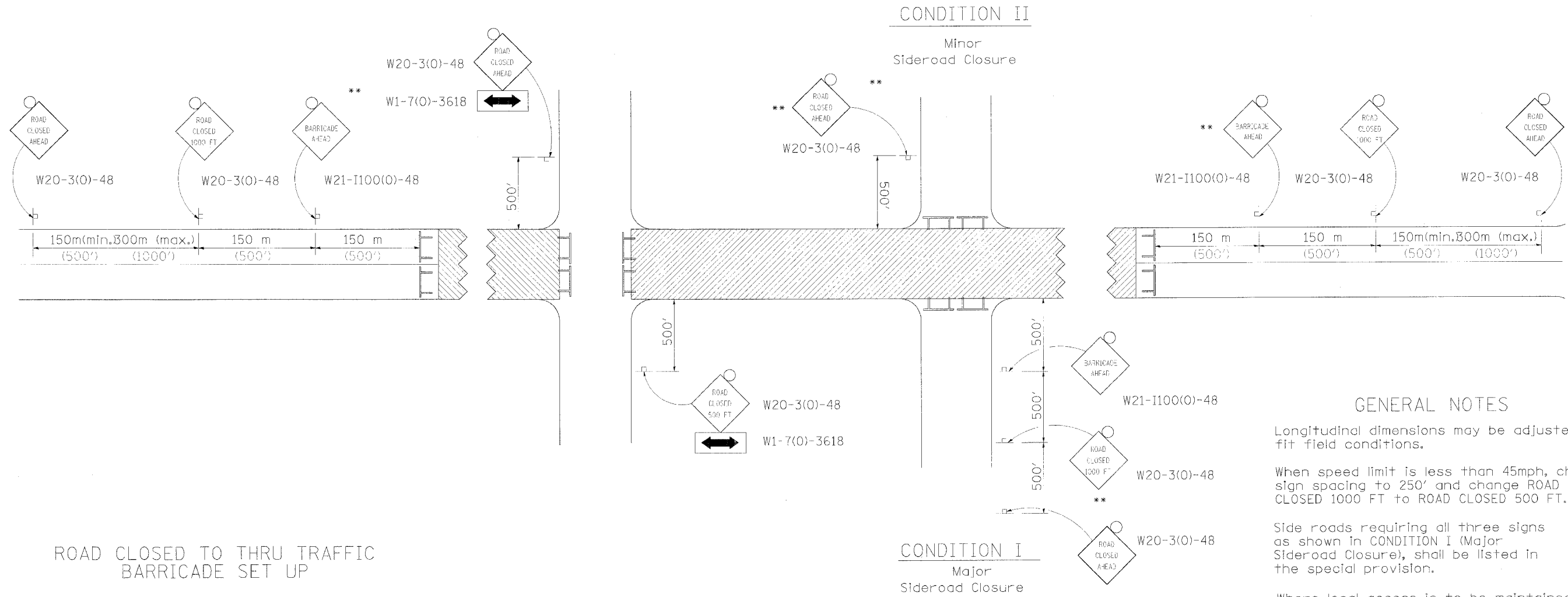
ROUND PIPE MULTIPLE INLET END SECTIONS										
PIPE DIA. (D) (In)	GAGE	SPA. (In)	A (In)	H (In)	L (In)	DOUBLE W	TRIPLE W	REINFORCING ANGLE		
12	16	12	6 1/2	6	21	48	72	2 x 2 x 1/4		
15	16	12	7 1/2	6	26	57	84	2 x 2 x 1/4		
18	16	12	8	6	31	66	96	2 x 2 x 1/4		
21	16	12	10	6	36	75	108	2 x 2 x 1/4		
24	16	12	10	6	41	84	120	5 x 3 x 1/4		
30	14	15	12 1/4	8	51	102	147	5 x 3 x 1/4		
36	14	18	14 1/2	9	60	126	180	5 x 3 x 1/4		
42	12	21	17	10 1/2	69	147	210	5 x 3 x 1/4		
48	12	24	18 1/2	12	79	162	234	6 x 4 x 3/8		
54	12	27	18 1/2	12	84	183	264	6 x 4 x 3/8		
60	12/10	30	18	12	88	204	294	6 x 4 x 3/8		
66	12/10	33	18	12	87	219	318	6 x 4 x 3/8		
72	12/10	36	18	12	88 1/2	228	336	6 x 4 x 3/8		
78	12/10	36	18	12	87 1/2	252	366	6 x 4 x 3/8		
84	12/10	36	18	12	87 1/2	254	384	6 x 4 x 3/8		

NOTE: ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

PLOT DATE = 12/11/2005  
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 REFERENCE = SHEET

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* CARROLL & OGLE				

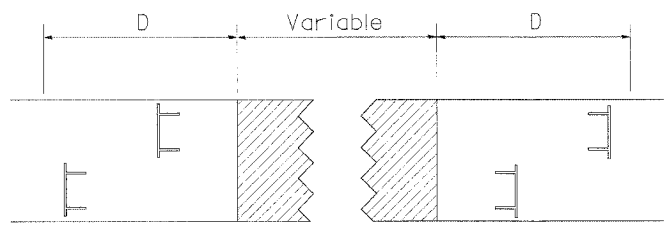
# TRAFFIC CONTROL FOR ROAD CLOSURE



### GENERAL NOTES

- Longitudinal dimensions may be adjusted to fit field conditions.
- When speed limit is less than 45mph, change sign spacing to 250' and change ROAD CLOSED 1000 FT to ROAD CLOSED 500 FT.
- Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.
- \*\* Where local access is to be maintained, barricades are to be set up as shown in Road Closed to thru traffic.
- Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 702001.

### ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To All Thru Traffic" detail on Highway Standard 702001. If the distance "D" exceeds 600 m (2000') an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

### SYMBOLS

- Work area
- Type III Barricade with Flashers
- Sign with flashing light

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

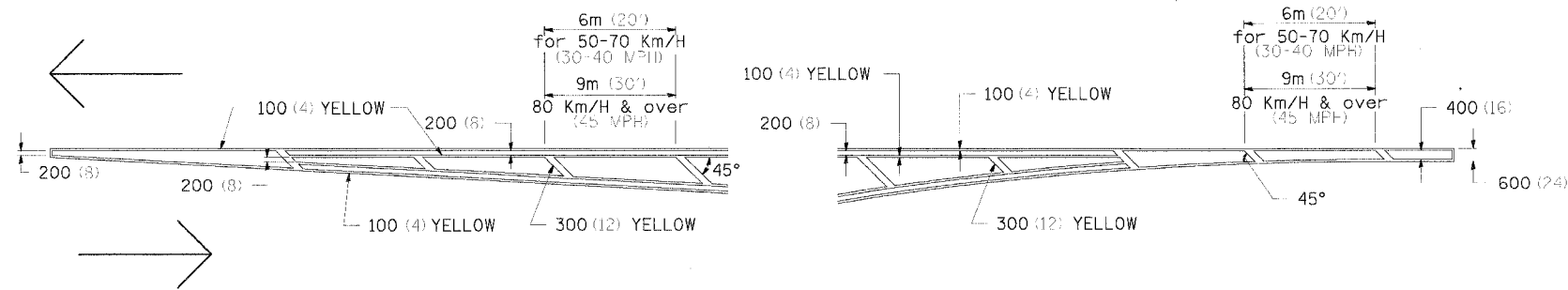
TYPICAL APPLICATION FOR ROAD CLOSURE

PLOT DATE = 12/11/2005  
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 REFERENCE = REF#

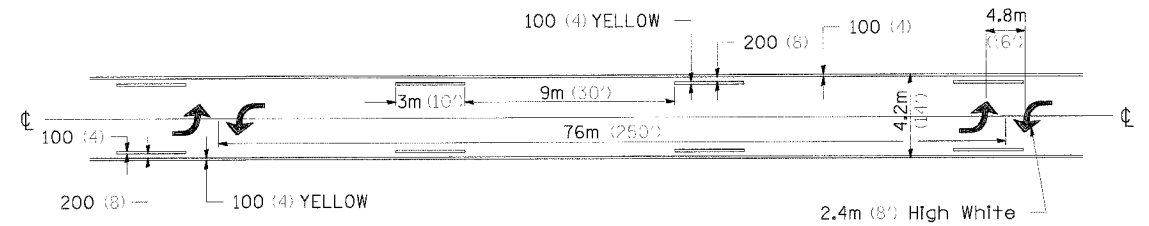
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1	*	118	74
STA.		TO STA.		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
* CARROLL & OGLE				

# TYPICAL PAVEMENT MARKINGS

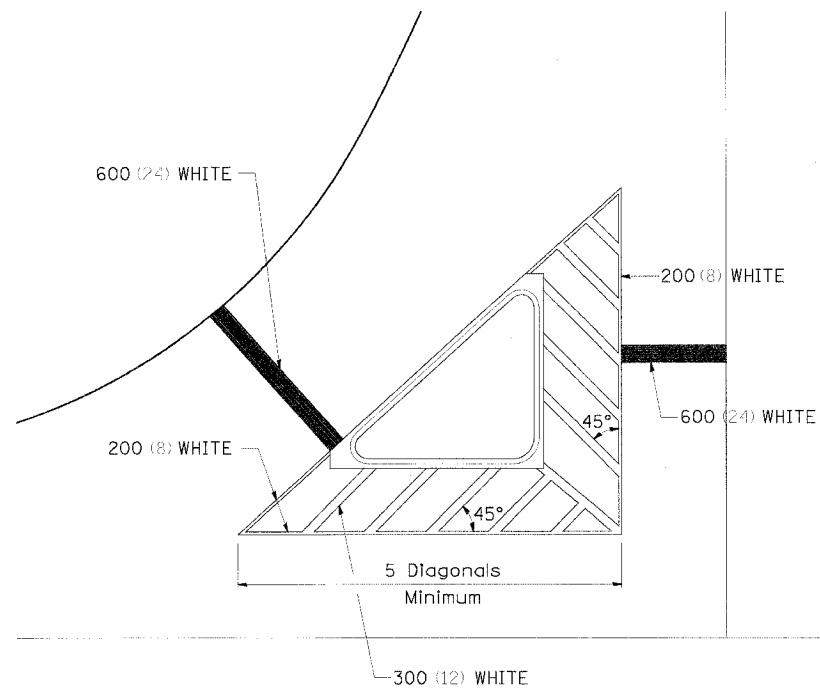
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE



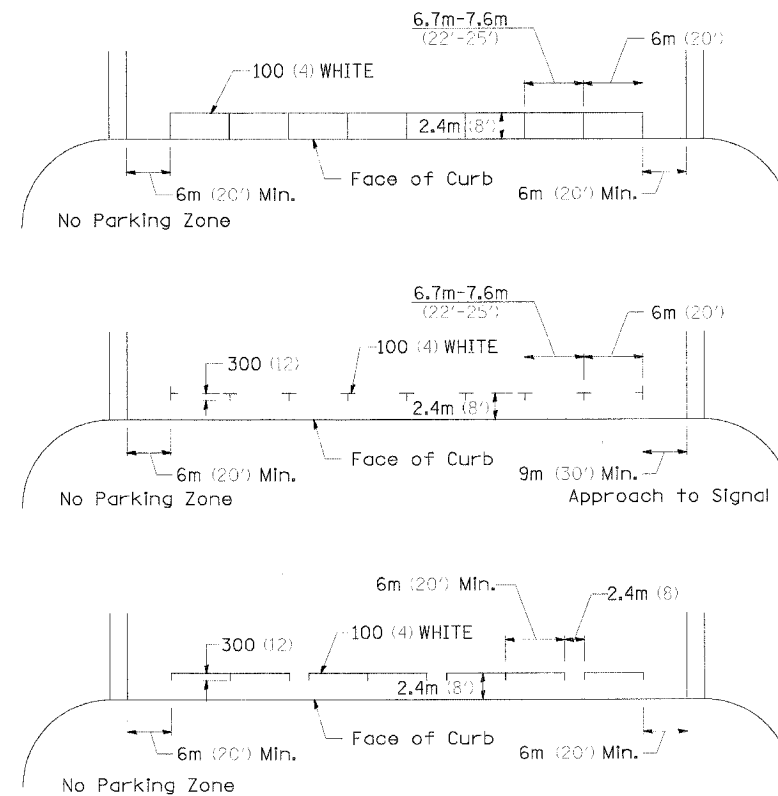
MEDIAN PAVEMENT MARKING



TYPICAL ISLAND OFFSET SHOULDER WIDTH

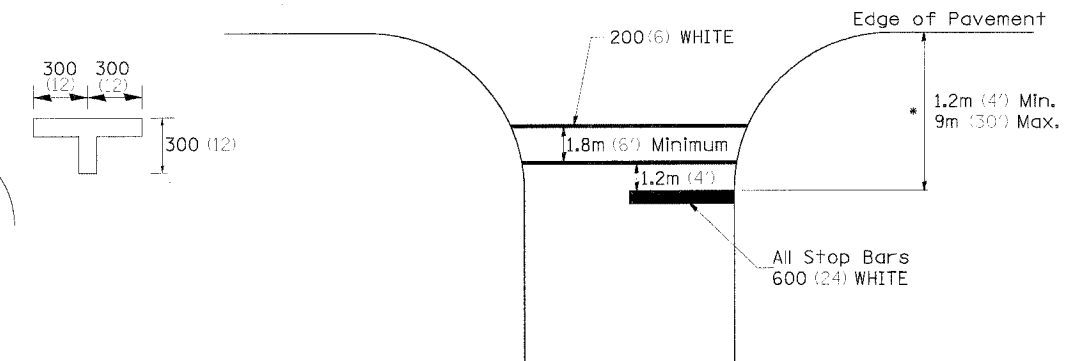


TYPICAL PARKING SPACING



\*\* ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

STANDARD CROSSWALK MARKING  
See Schedules for Locations

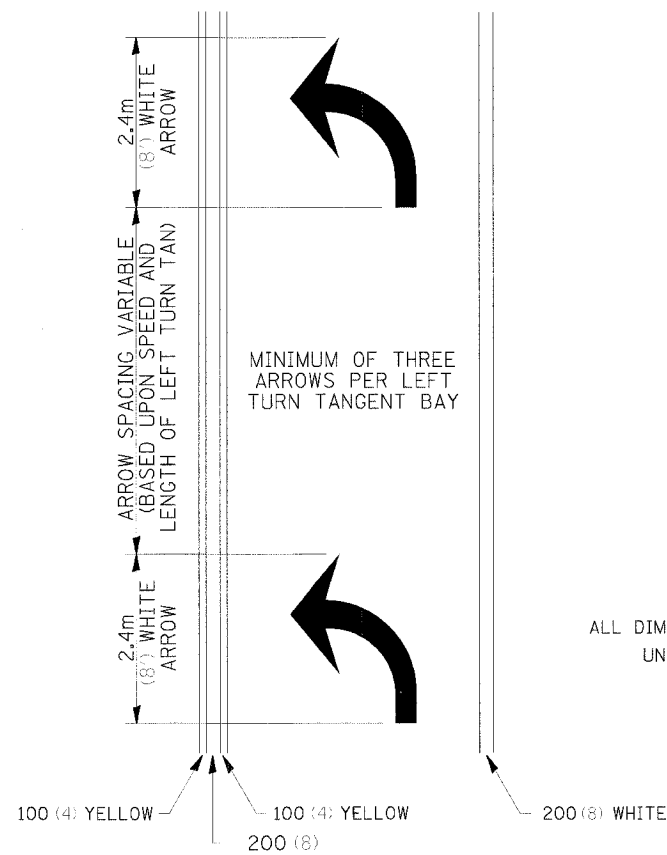


\* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

PLOT DATE = 12/11/2005  
FILE NAME = MK-Pro-N065201.stn 2 Var-VL-72VFINDL-dat-stand.dwg  
PLOT SCALE = 50.0000 / IN.  
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# TYPICAL PAVEMENT MARKINGS

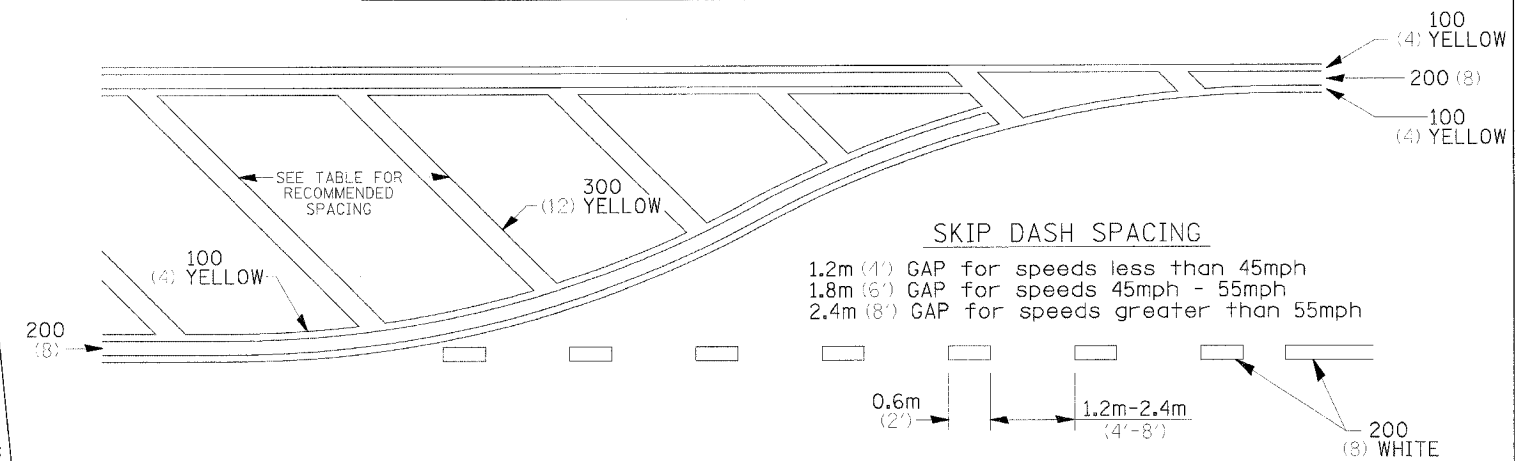
## ARROW LAYOUT



- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

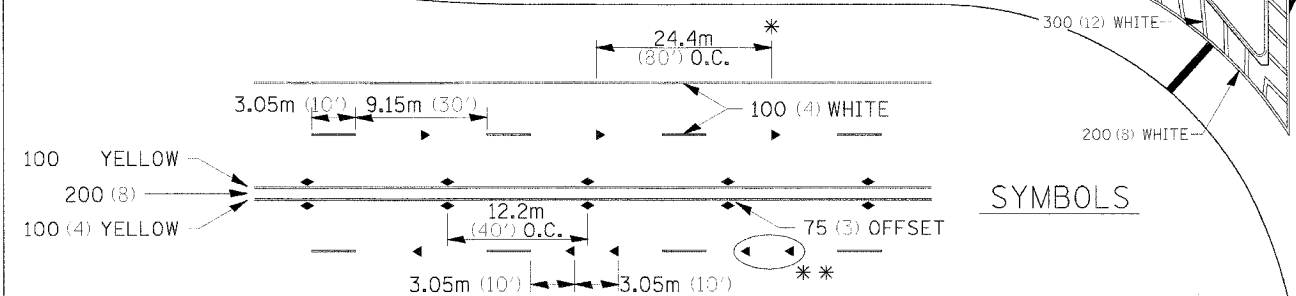
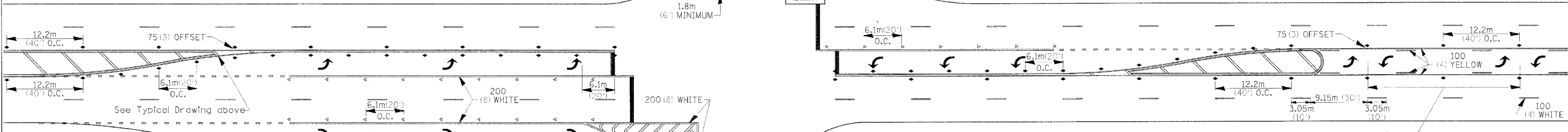
## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



### RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 50Km/H (30MPH)	15.3m (50')	4.53m (15')	3.05m (10')
50-60Km/H (30-40MPH)	22.9m (75')	6.1m (20')	4.53m (15')
70Km/H (45MPH) & over	22.9m (75')	9.05m (30')	6.1m (20')

NOTE: If the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.

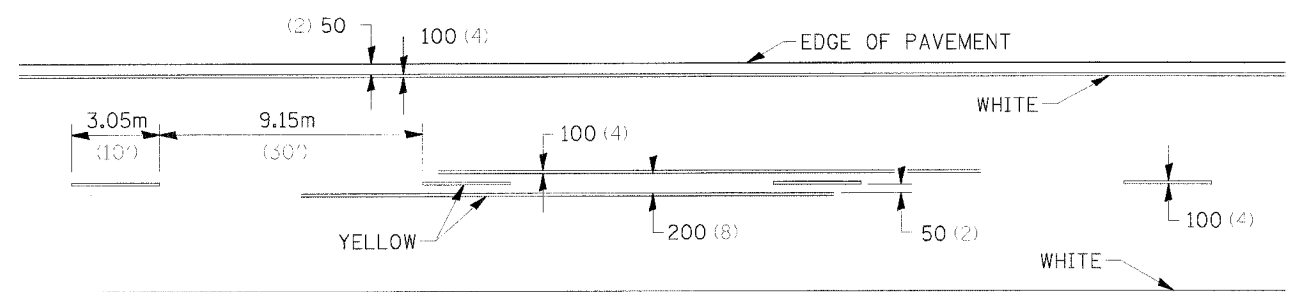


## SYMBOLS

- \* REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15Km/H (10MPH) LOWER THAN POSTED SPEEDS.
- \*\* USE DOUBLE MARKERS WHEN ADT ≥ 25,000

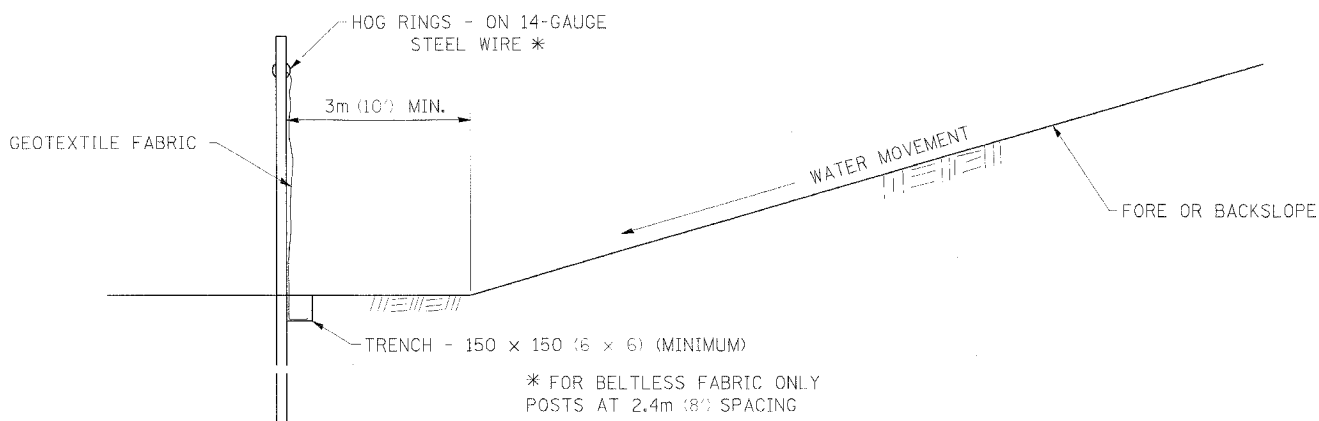
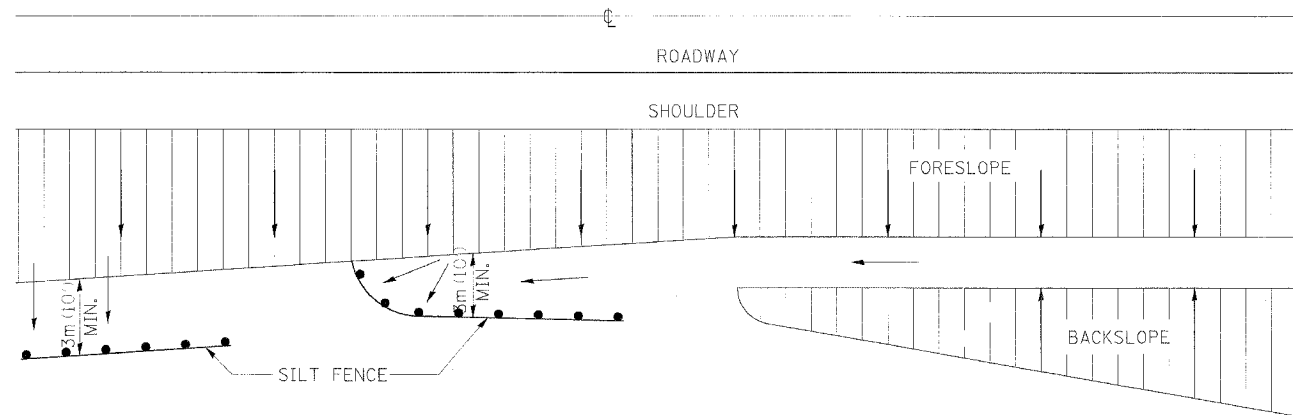
## MULTI-LANE / UNDIVIDED

## TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES





# EROSION CONTROL DETAILS FOR SILT FENCE



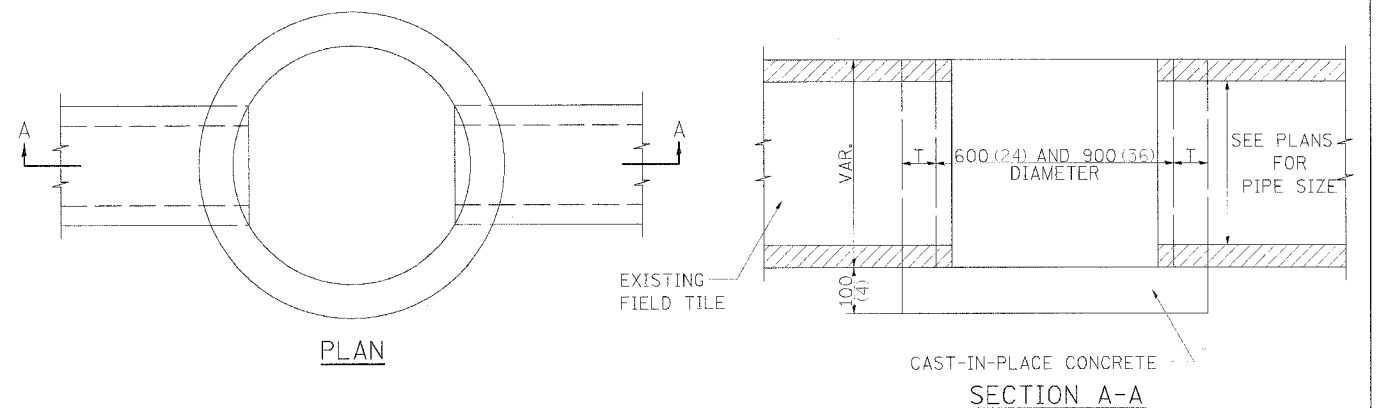
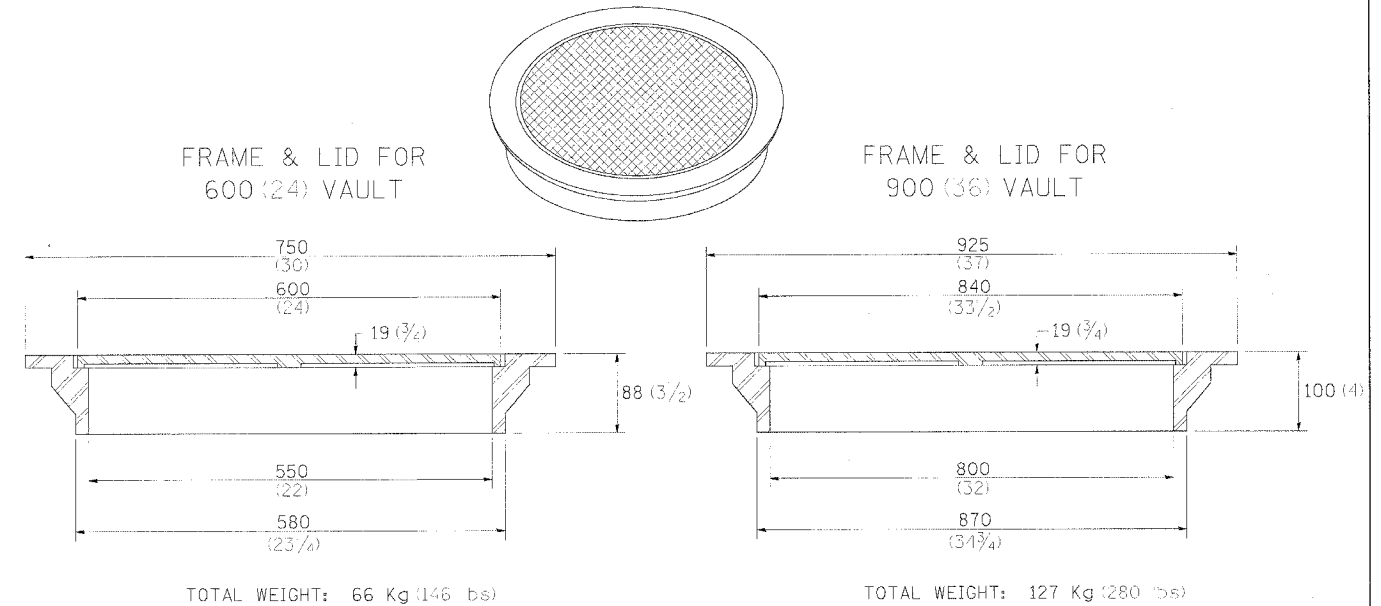
DETAILS OF SILT FENCE

\* FOR BELTLESS FABRIC ONLY  
POSTS AT 2.4m (8') SPACING

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

# FIELD TILE JUNCTION VAULTS 600 (24) AND 900 (36) DIA.

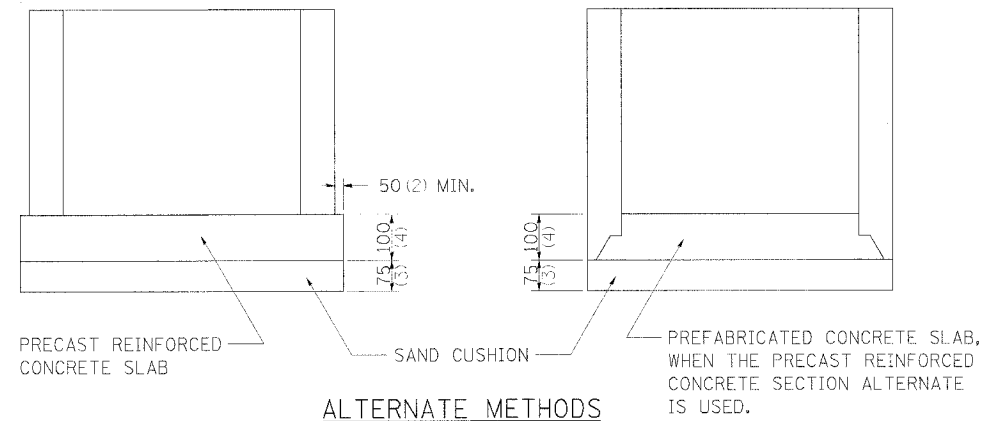
CONTRACT NO. 64C31			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
545	114T-1		118 77
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
• CARROLL & OGLE			



ALTERNATE MATERIALS FOR WALLS	T
BRICK MASONRY	200 (8)
CAST-IN-PLACE CONCRETE	150 (6)
CONCRETE MASONRY UNIT	125 (5)
PRECAST REINFORCED CONCRETE SECTION	75 (3)

NOTE: THE FRAME AND LID IS REQUIRED ON ALL JUNCTION VAULTS.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

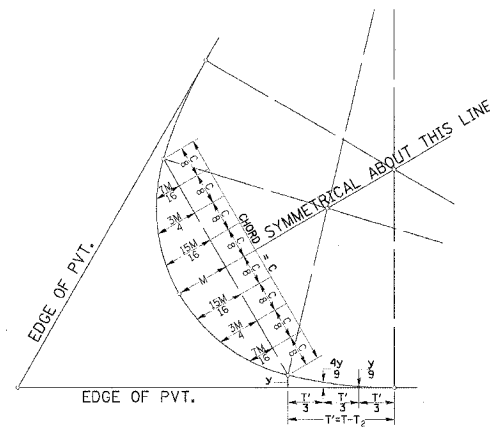


ALTERNATE METHODS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1		118	78
STA.	TO STA.			
FED. ROAD DIST. NO. ILLINOIS, FED. AID PROJECT				
• CARROLL & OGLE				

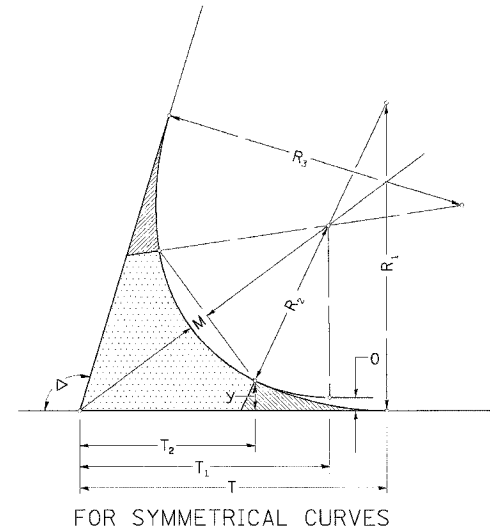
# THREE CENTER CURVE DATA

SYMMETRICAL CURVES



CURVE #									
R <sub>1</sub>									
R <sub>2</sub>									
R <sub>3</sub>									
O									
Δ									
T									
T <sub>1</sub>									
T <sub>2</sub>									
T'									
y									
4V									
5									
3									
M									
15M									
16									
3M									
4									
7M									
16									
C									

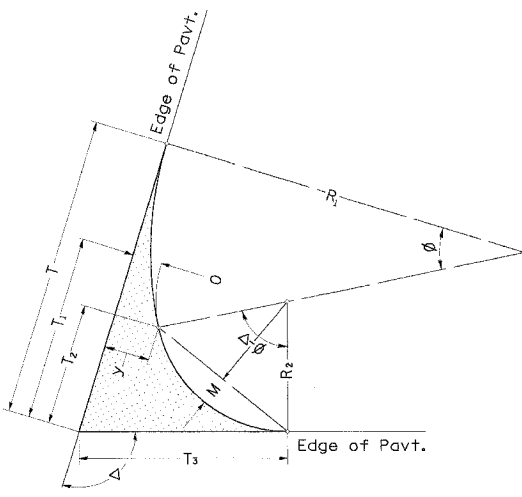
FIELD LAYOUT METHOD



FOR SYMMETRICAL CURVES

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

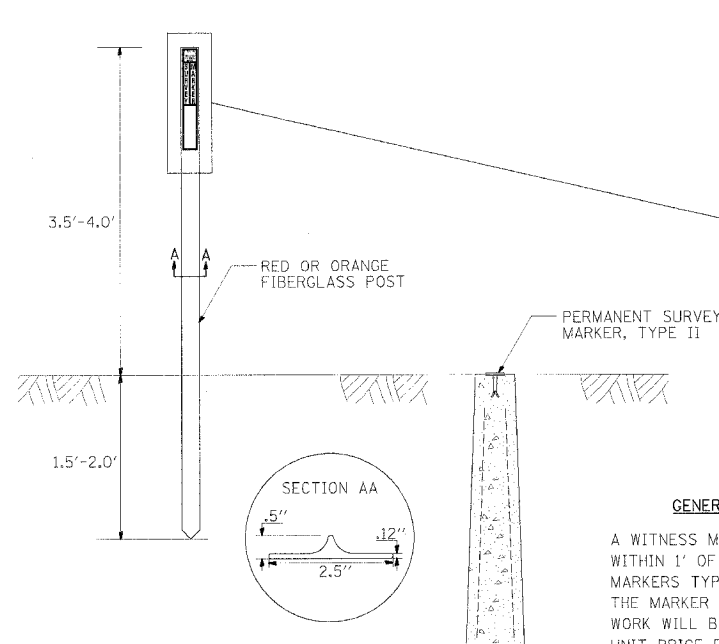
# TWO CENTER CURVE DATA



TWO CENTER CURVES

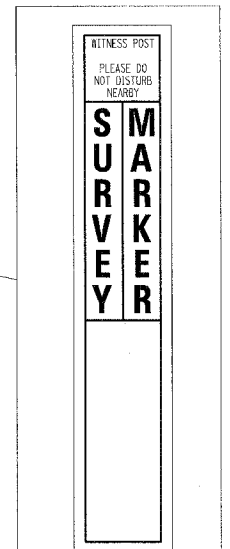
CURVE #	1	2	3						
R <sub>1</sub>	360.00	120.00	150.00						
R <sub>2</sub>	60.00	30.00	50.00						
O	8.00	6.00	8.00						
Δ	89.20	92.10	88.70						
T	127.87	63.65	87.89						
T <sub>1</sub>	59.06	31.34	48.70						
T <sub>2</sub>	45.29	20.57	29.10						
T <sub>3</sub>	67.17	37.12	56.88						
y	9.60	8.00	12.00						
4V	4.27	3.56	5.33						
5	1.07	0.89	1.33						
M	12.70	5.59	7.98						
15M	11.91	5.24	7.48						
16	9.52	4.19	5.98						
3M	5.56	2.44	3.49						
4	73.83	34.87	54.19						
7M									
16									
C									

# WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II

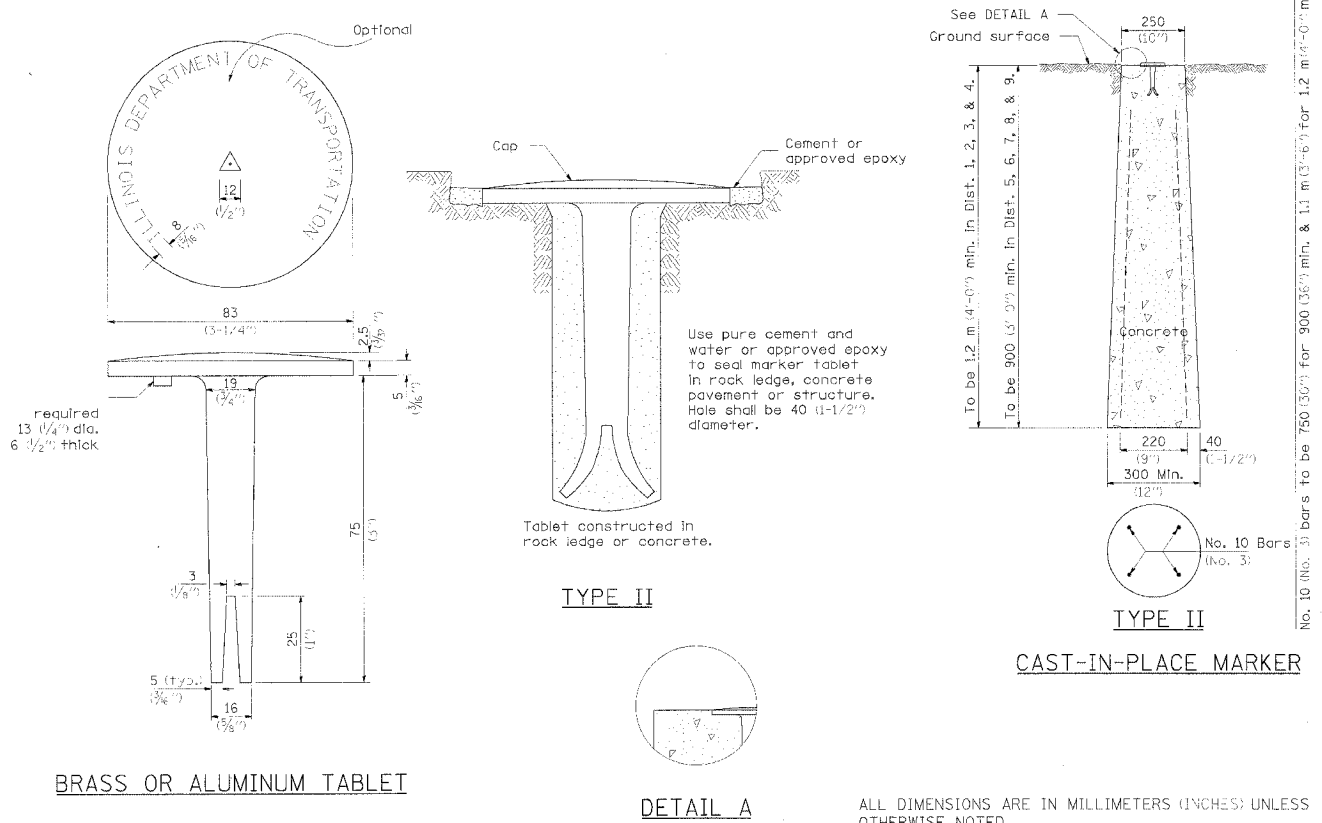


GENERAL NOTES

A WITNESS MARKER SHALL BE INSTALLED WITHIN 1' OF ALL PERMANENT SURVEY MARKERS TYPE II EXCEPT IN AREAS WHERE THE MARKER IS IN THE SIDEWALK. THIS WORK WILL BE INCLUDED TO THE CONTRACT UNIT PRICE PER EACH FOR PERMANENT SURVEY MARKERS, TYPE II.



# PERMANENT SURVEY MARKERS, TYPE II



BRASS OR ALUMINUM TABLET

DETAIL A

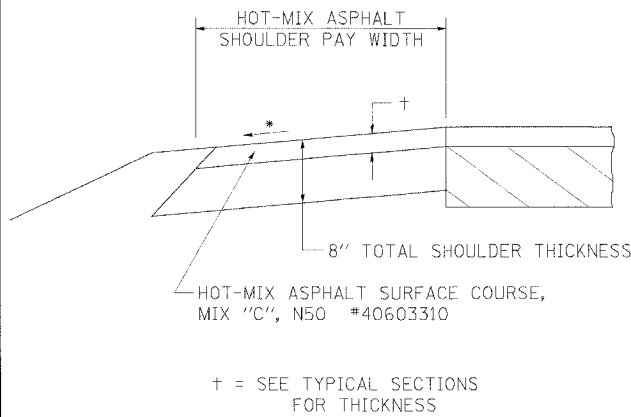
CAST-IN-PLACE MARKER

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

PLOT DATE = 12/11/2005  
 FILE NAME = M:\P\01\0632\Dist 2\Ver\AL-72\FINAL-dist-sund-dfd.dgn  
 PLOT SCALE = 50:1  
 REFERENCE = 4824

CONTRACT NO. 64C31				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1		118	79
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
• CARROLL & OGLE				

# HOT-MIX ASPHALT SHOULDER



### GENERAL NOTES

THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310 AND SQUARE YARD FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED.

USE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. WHEN RESURFACING EXISTING HOT-MIX ASPHALT SHOULDERS. THE THICKNESS IS SHOWN ON THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310.

REMOVAL OF MATERIAL FOR PLACEMENT OF THE HOT-MIX ASPHALT SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

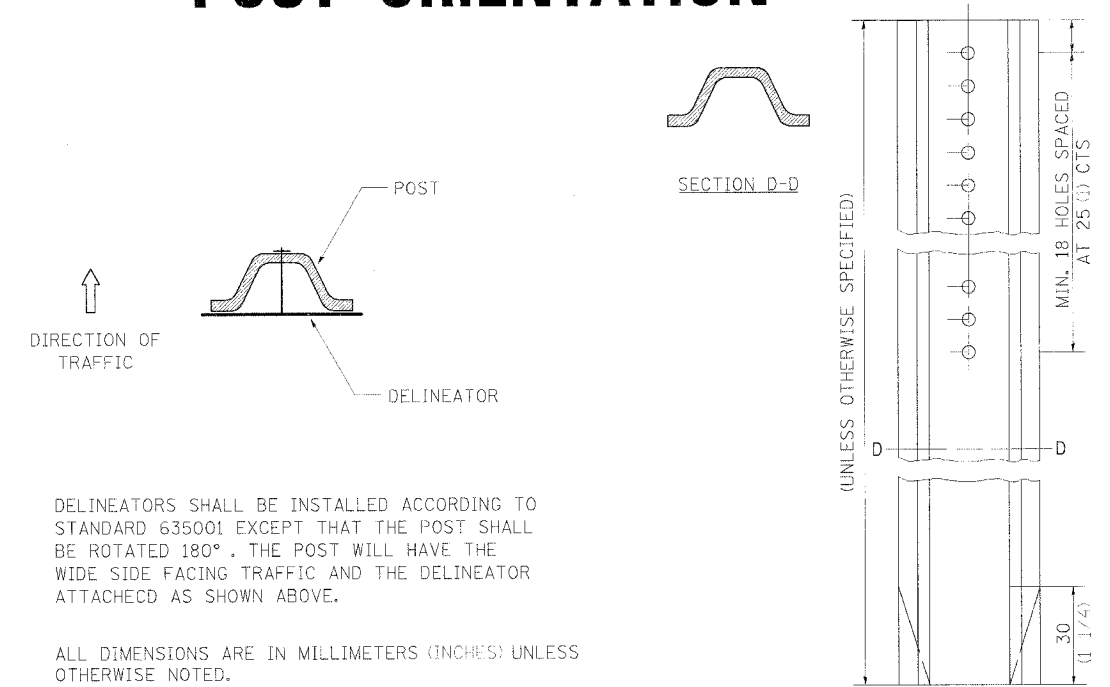
\* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

**HOT-MIX ASPHALT SHOULDER 23.4a**

REVISED 10-06-06

# DELINEATOR AND POST ORIENTATION



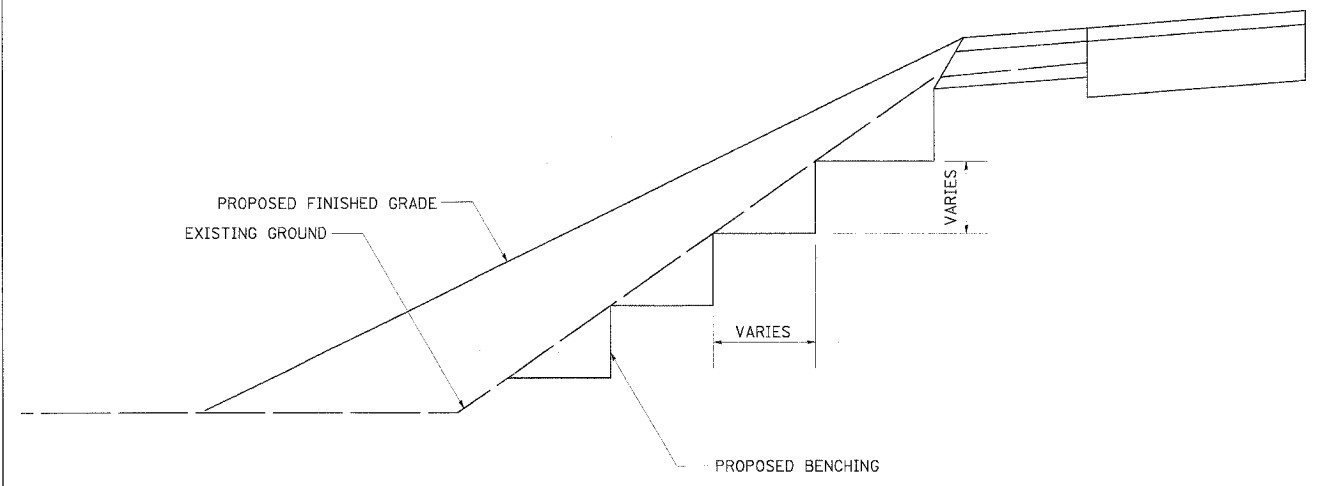
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHED AS SHOWN ABOVE.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

**DELINEATOR AND POST ORIENTATION 37.4**

REVISED 1-31-00

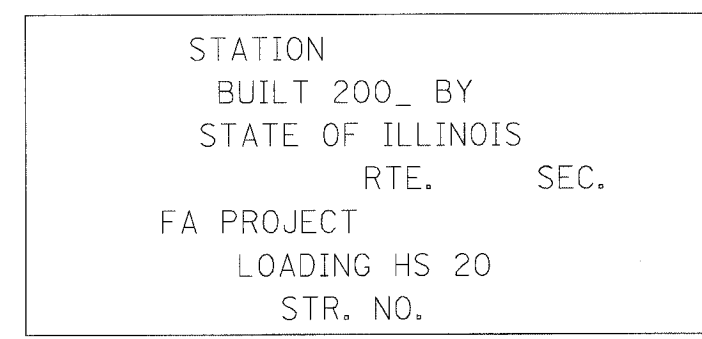
# TYPICAL BENCHING ON EXISTING EMBANKMENT



**TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4**

REVISED 2-22-06

# LETTERING FOR NAME PLATE



ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

**LETTERING FOR NAME PLATE 89.4**

REVISED 10-15-04

PLOT DATE = 12/11/2006  
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 PLOT SCALE = 300.000 / IN.  
 REFERENCE = #REF#

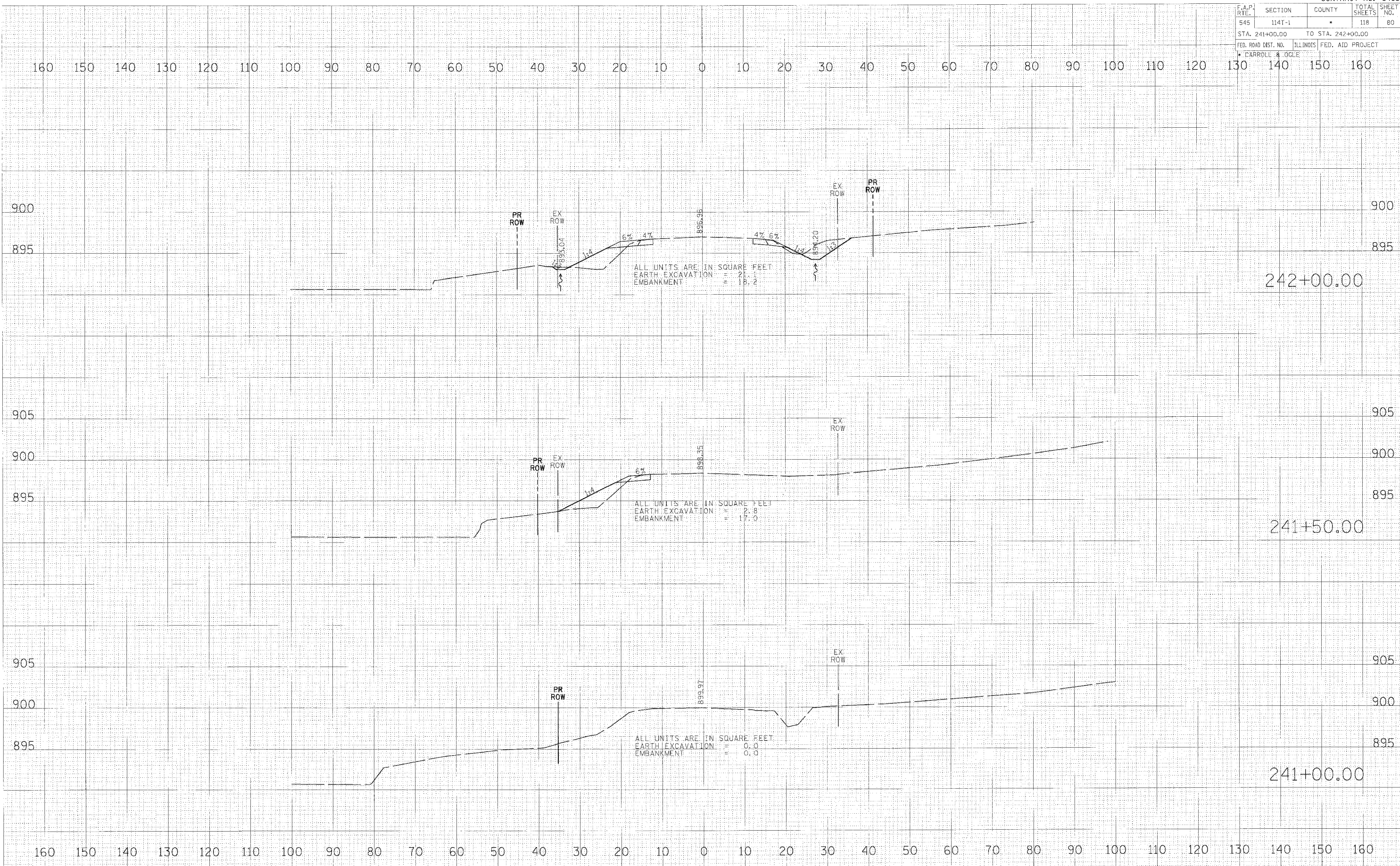


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1	*	118	80
STA. 241+00.00		TO STA. 242+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* CARROLL		* OGLE		

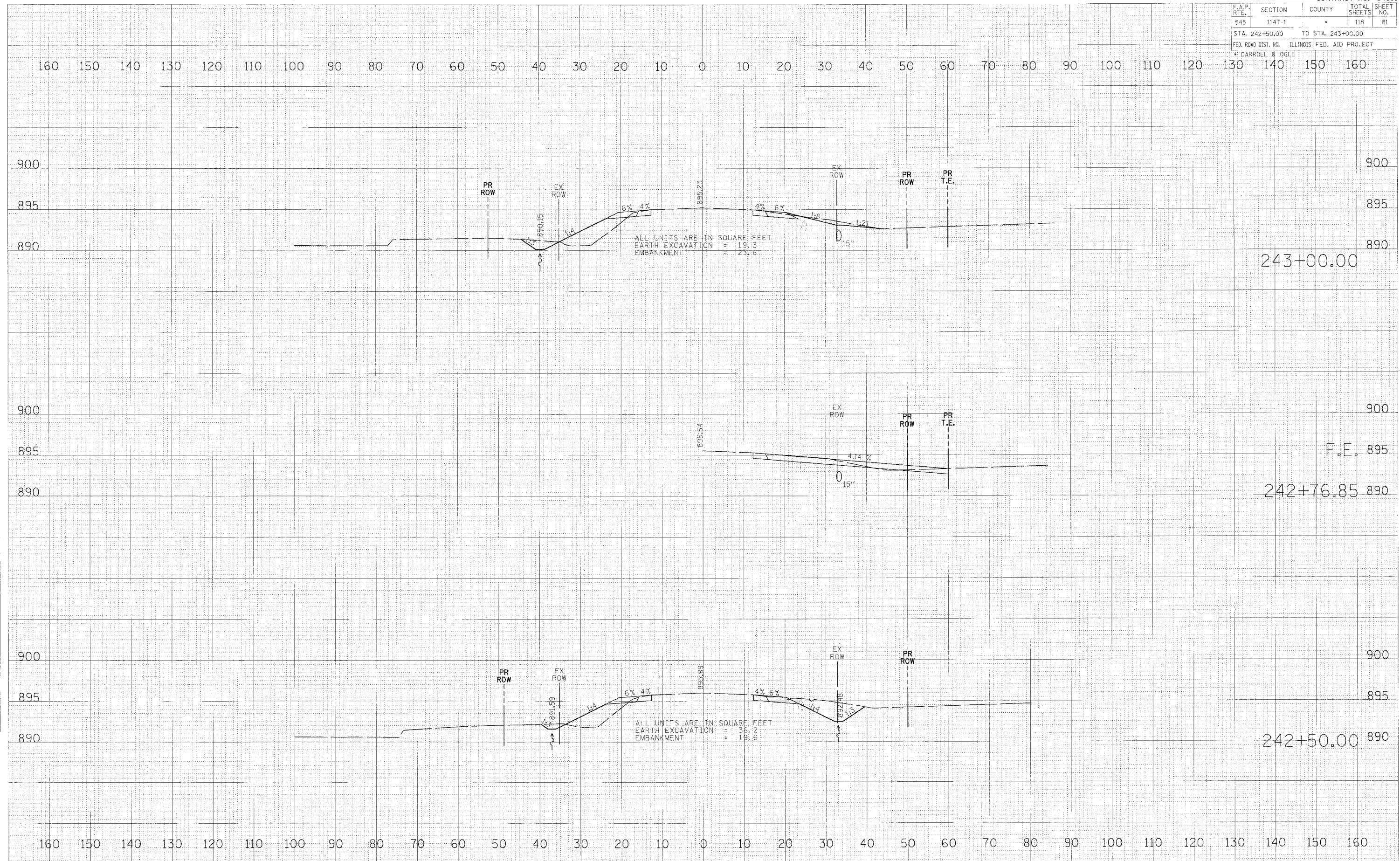
DATE PLOTTED: 11/11/11  
 PLOT BY: J. B. BROWN  
 SCALE: 1" = 40'  
 AREA: 1000.00

DATE PLOTTED: 11/11/11  
 PLOT BY: J. B. BROWN  
 SCALE: 1" = 40'  
 AREA: 1000.00

DATE: 11/11/11  
 SCALE: 1" = 40'  
 USER: J. B. BROWN



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1		118	81
STA. 242+50.00		TO STA. 243+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
DARROEL & OGLE				



SURVEYED BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 SCALE: \_\_\_\_\_  
 USER: \_\_\_\_\_

SURVEYED BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 SCALE: \_\_\_\_\_  
 USER: \_\_\_\_\_

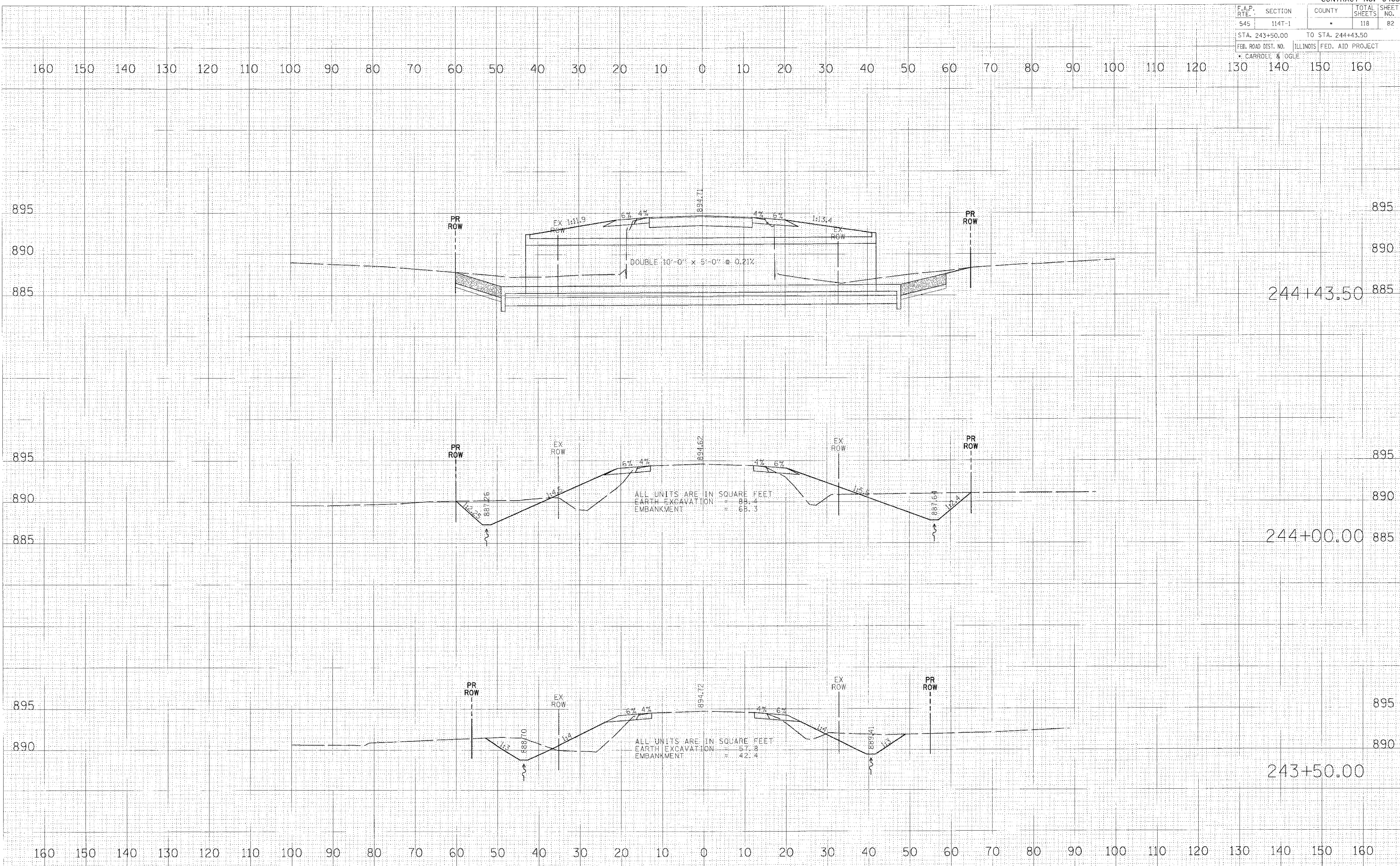
SURVEYED BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 SCALE: \_\_\_\_\_  
 USER: \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1	*	118	82
STA. 243+50.00		TO STA. 244+43.50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* CARROLL & OGLE				

DATE PLOTTED: 11/11/03  
 PLOTTER: HPGLA100  
 SCALE: 1"=40'  
 USER: JLS

DATE PLOTTED: 11/11/03  
 PLOTTER: HPGLA100  
 SCALE: 1"=40'  
 USER: JLS

DATE PLOTTED: 11/11/03  
 PLOTTER: HPGLA100  
 SCALE: 1"=40'  
 USER: JLS

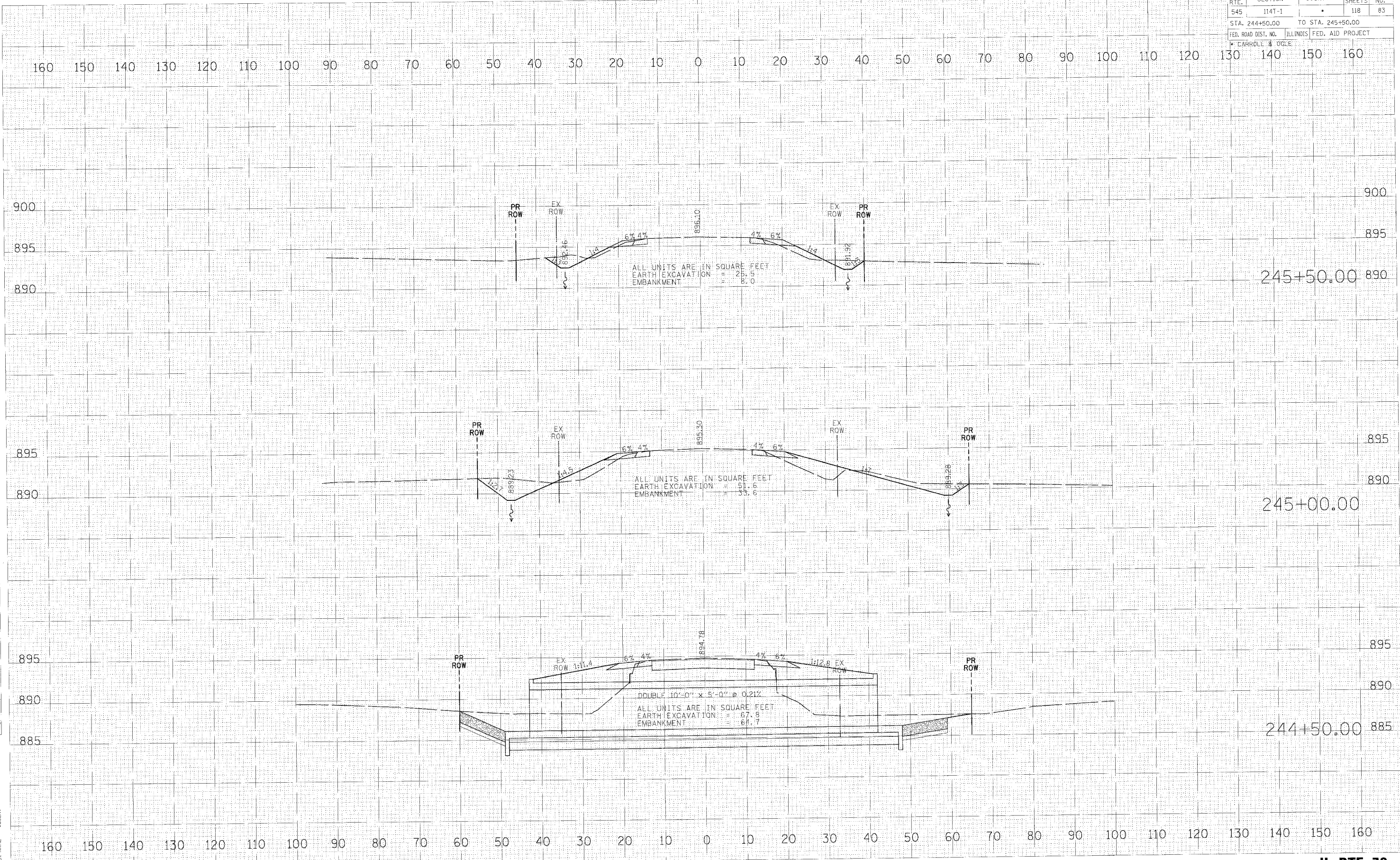


CONTRACT NO. 64C31				
F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	1141-1		118	83
STA. 244+50.00		TO STA. 245+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CARROLL & OGLE				

SURVEY: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 AREA: \_\_\_\_\_  
 SCALE: \_\_\_\_\_  
 USER: \_\_\_\_\_

SURVEY: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 AREA: \_\_\_\_\_  
 SCALE: \_\_\_\_\_  
 USER: \_\_\_\_\_

SURVEY: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 AREA: \_\_\_\_\_  
 SCALE: \_\_\_\_\_  
 USER: \_\_\_\_\_

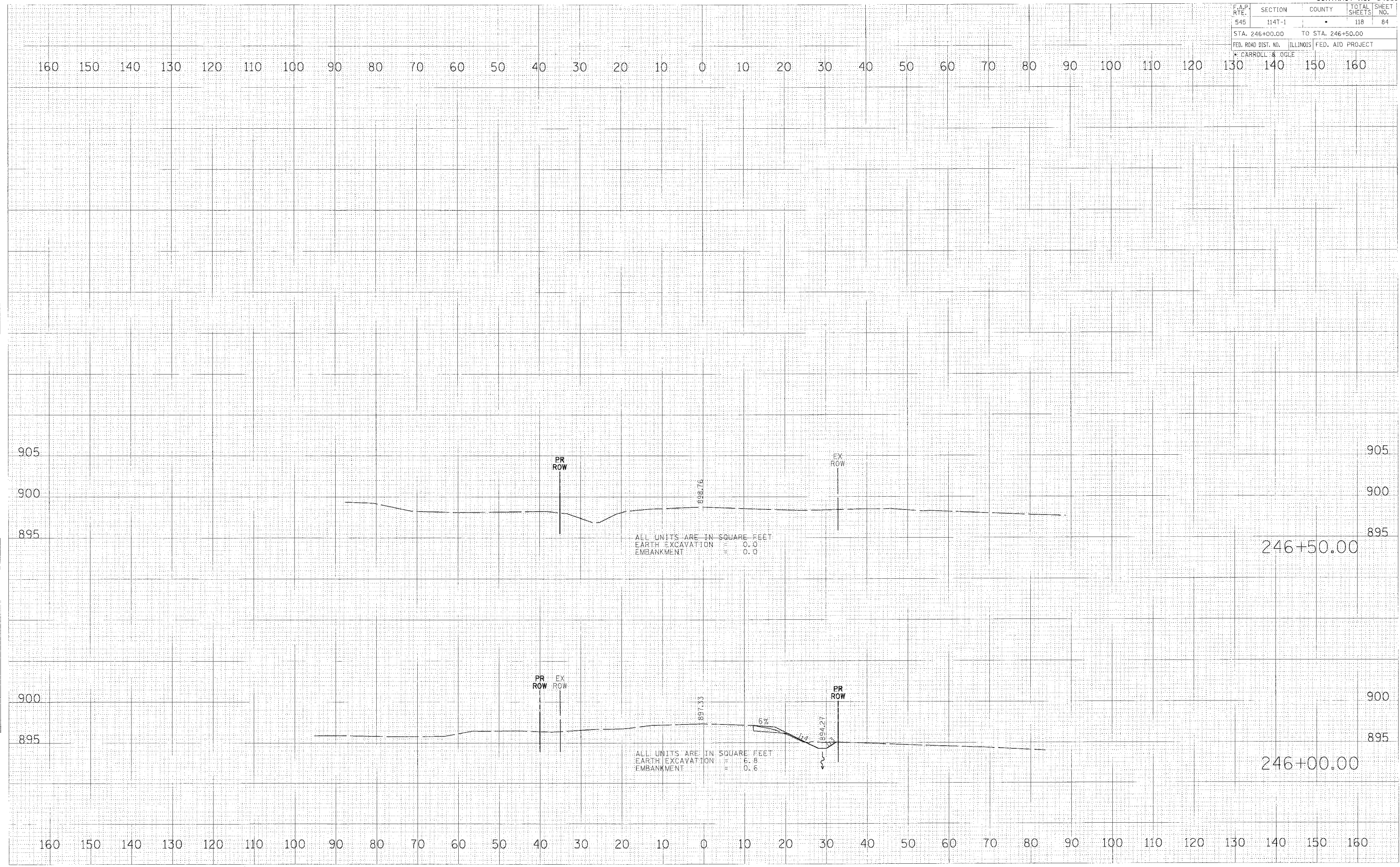


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1		118	84
STA. 246+00.00		TO STA. 246+50.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
M. CARROLL & OGLE				

DATE: 11/11/11  
 DRAWN BY: J. H. COOK  
 CHECKED BY: M. J. DREW

SHEET: 84  
 PROJECT: ILLINOIS  
 AREA: ILLINOIS

DATE: 11/11/11  
 FILE: 111111  
 SCALE: 1"=40'  
 USER: JHCOOK

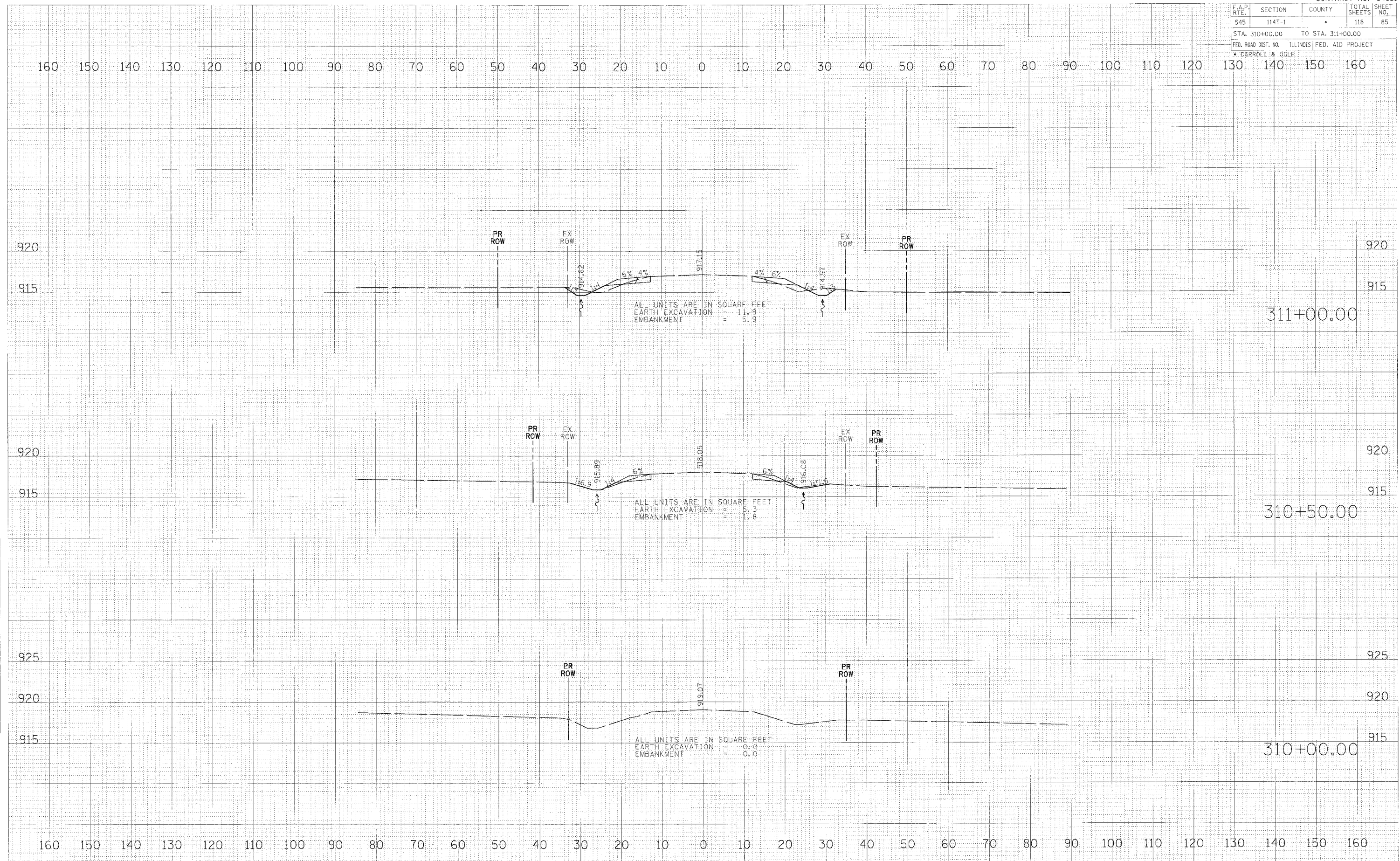


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1	•	118	85
STA. 310+00.00		TO STA. 311+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
• CARROLL & OGLE				

DATE PLOTTED: 11/14/01  
PLOT SCALE: 1"=40'  
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PLOT SCALE: 1"=40'  
PLOT DATE: 11/14/01  
USER NAME: JLS

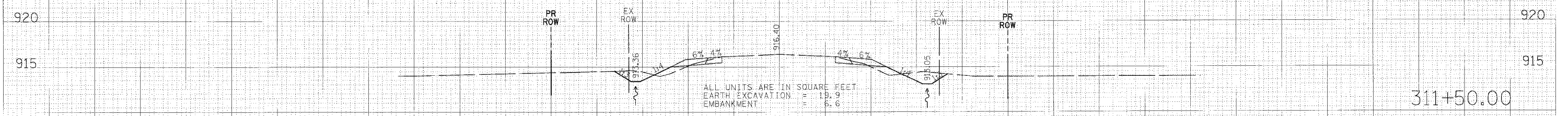
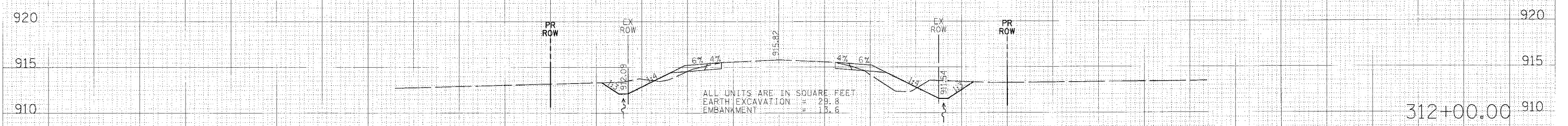
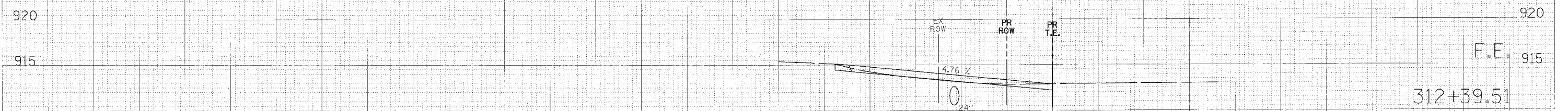
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USER NAME: JLS

DATE PLOTTED: 11/14/01  
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FILE NAME: 114T-1.dwg  
PLOT SCALE: 1"=40'  
PLOT DATE: 11/14/01  
USER NAME: JLS



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1		118	86
STA. 311+50.00		TO STA. 312+39.51		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* CARROLL & OGLE				

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160



160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

DATE: \_\_\_\_\_  
 SURVEY: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO. \_\_\_\_\_

DATE: \_\_\_\_\_  
 SURVEY: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
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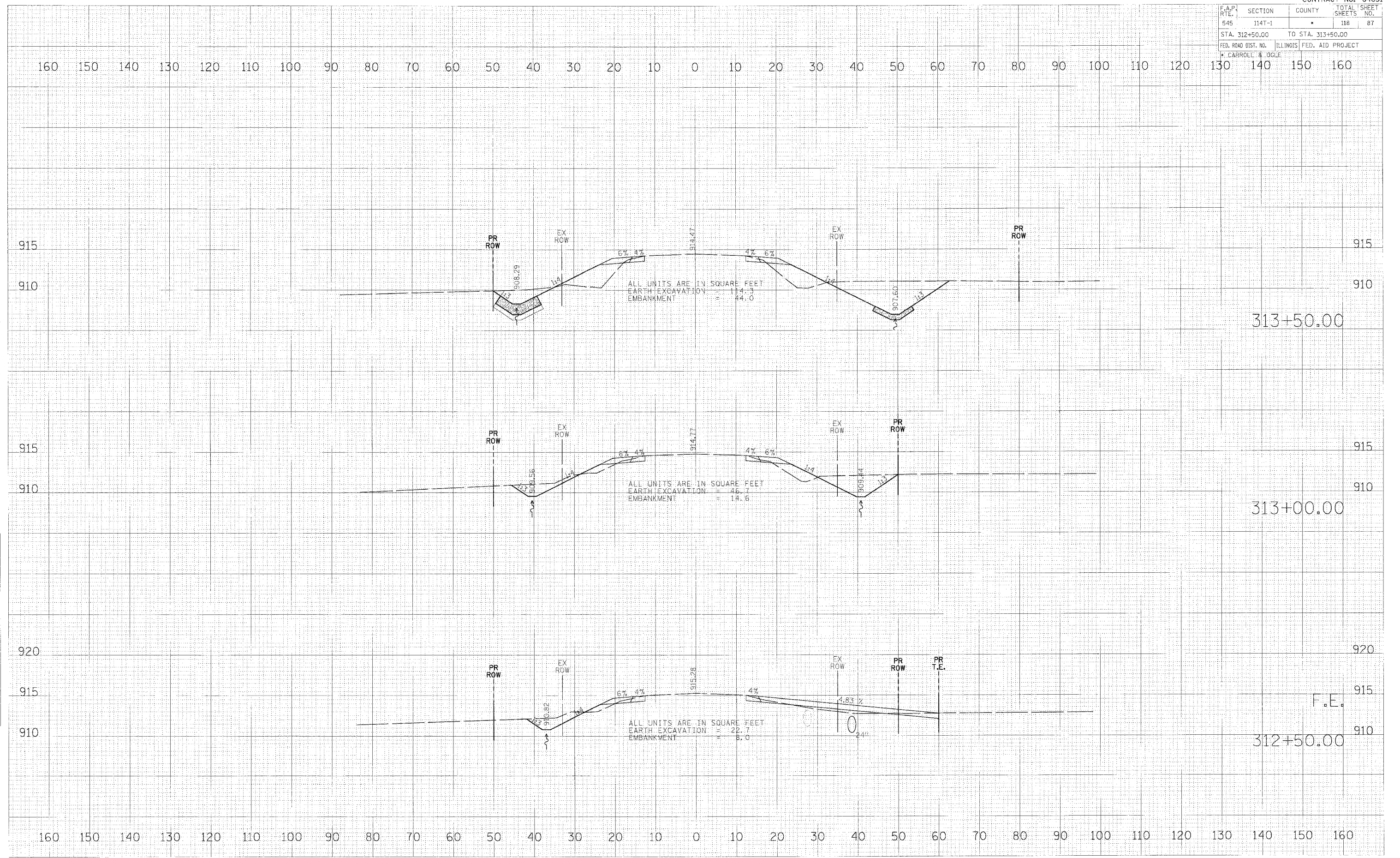
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 NOTE BOOK: \_\_\_\_\_  
 NO. \_\_\_\_\_

CONTRACT NO. 64C31			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
545	114T-1	•	118 87
STA. 312+50.00		TO STA. 313+50.00	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
• CARROLL & OGLE			

SURVEY  
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SURVEY  
 DATE  
 NAME  
 NO.

PLOT DATE  
 FILE NAME  
 PLOT SCALE  
 USER NAME



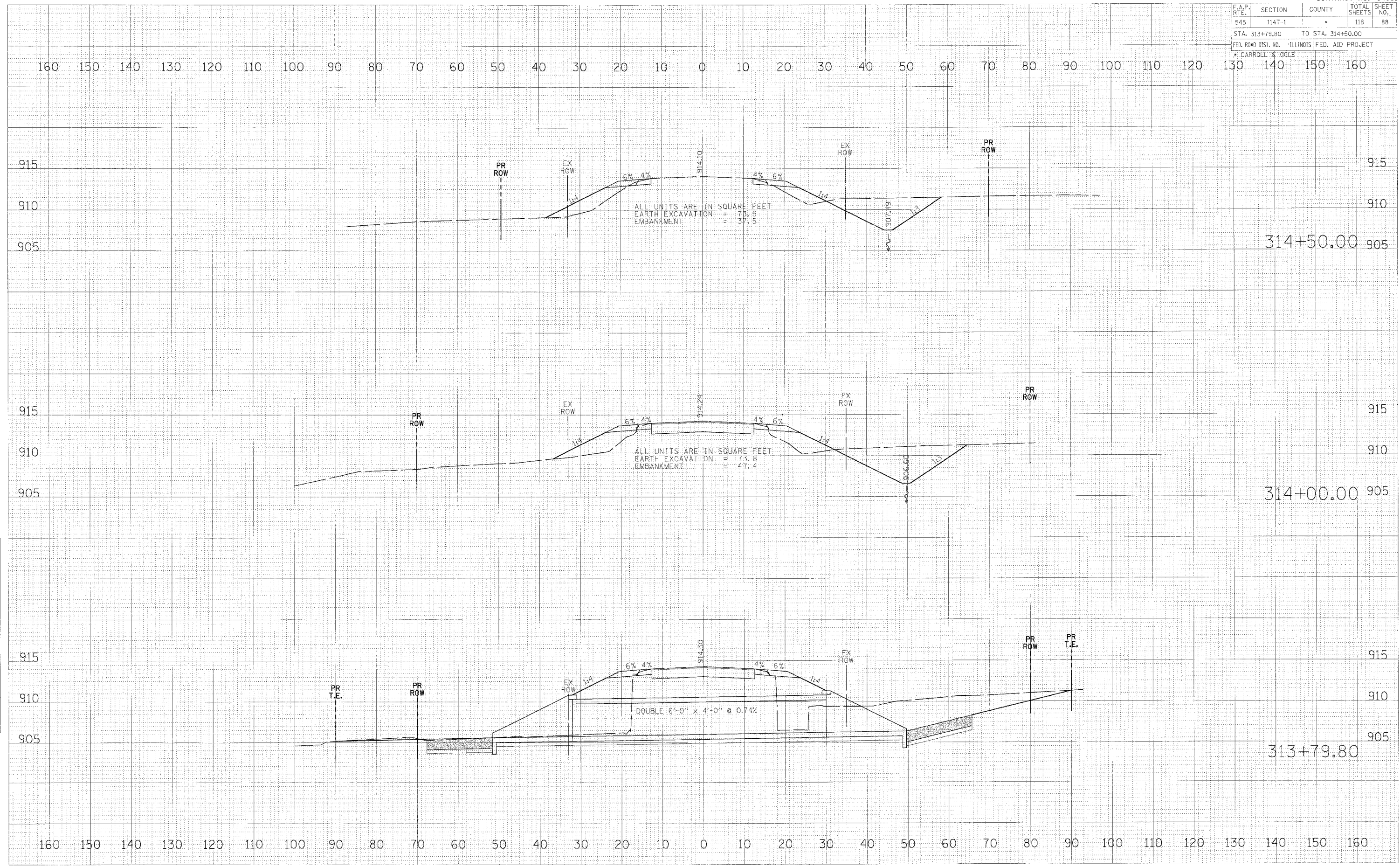


F.A.P. ATE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1		118	88
STA. 313+79.80 TO STA. 314+50.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
* CARROEL & OGLE				

NO. 1  
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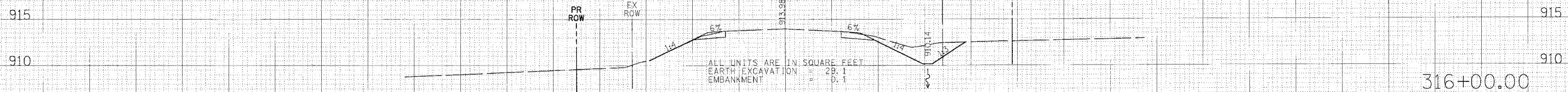
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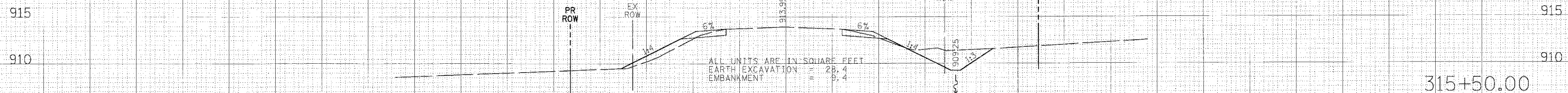


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1	*	118	89
STA. 315+00.00		TO STA. 316+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* CARROLL & OGLE				

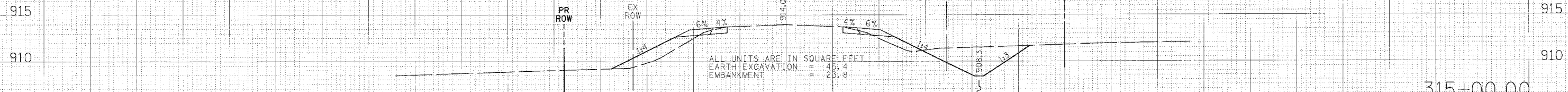
160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160



316+00.00



315+50.00



315+00.00

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

SURVEY  
 DATE  
 NAME  
 NO.  
 AREA

SURVEY  
 DATE  
 NAME  
 NO.  
 AREA

PLOT DATE = #DATE#  
 FILE NAME = #FILE#  
 PLOT SCALE = #SCALE#  
 USER NAME = #USER#

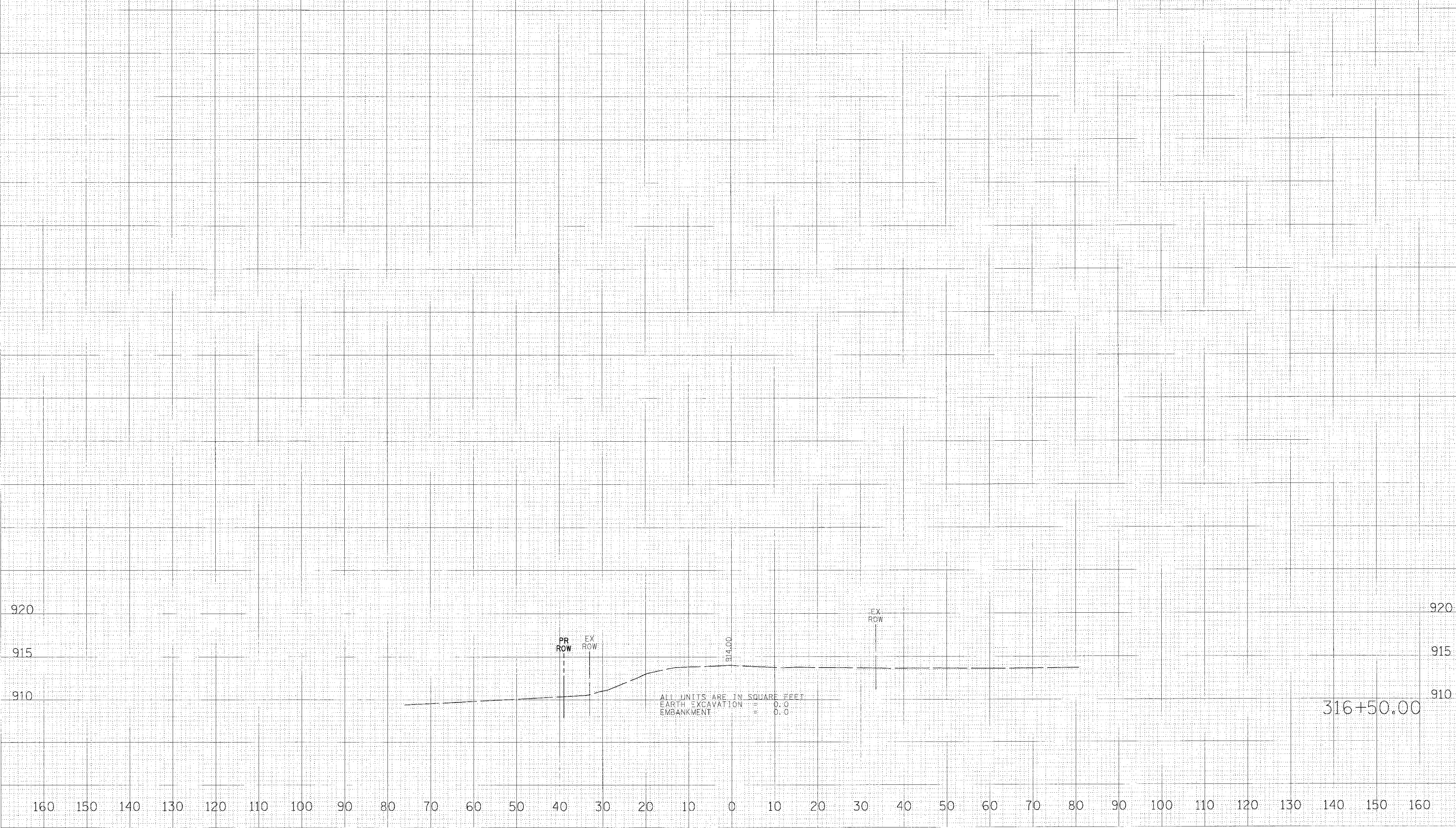
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS	NO.
545	114T-1	•	118	90
STA. 316+50.00		TO STA. 316+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
M. CARROLL & OGLE				

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

SURVEY  
DATE  
BY  
SCALE

SURVEY  
DATE  
BY  
SCALE

DATE  
FILE NAME  
PLOT SCALE  
USER NAME



316+50.00

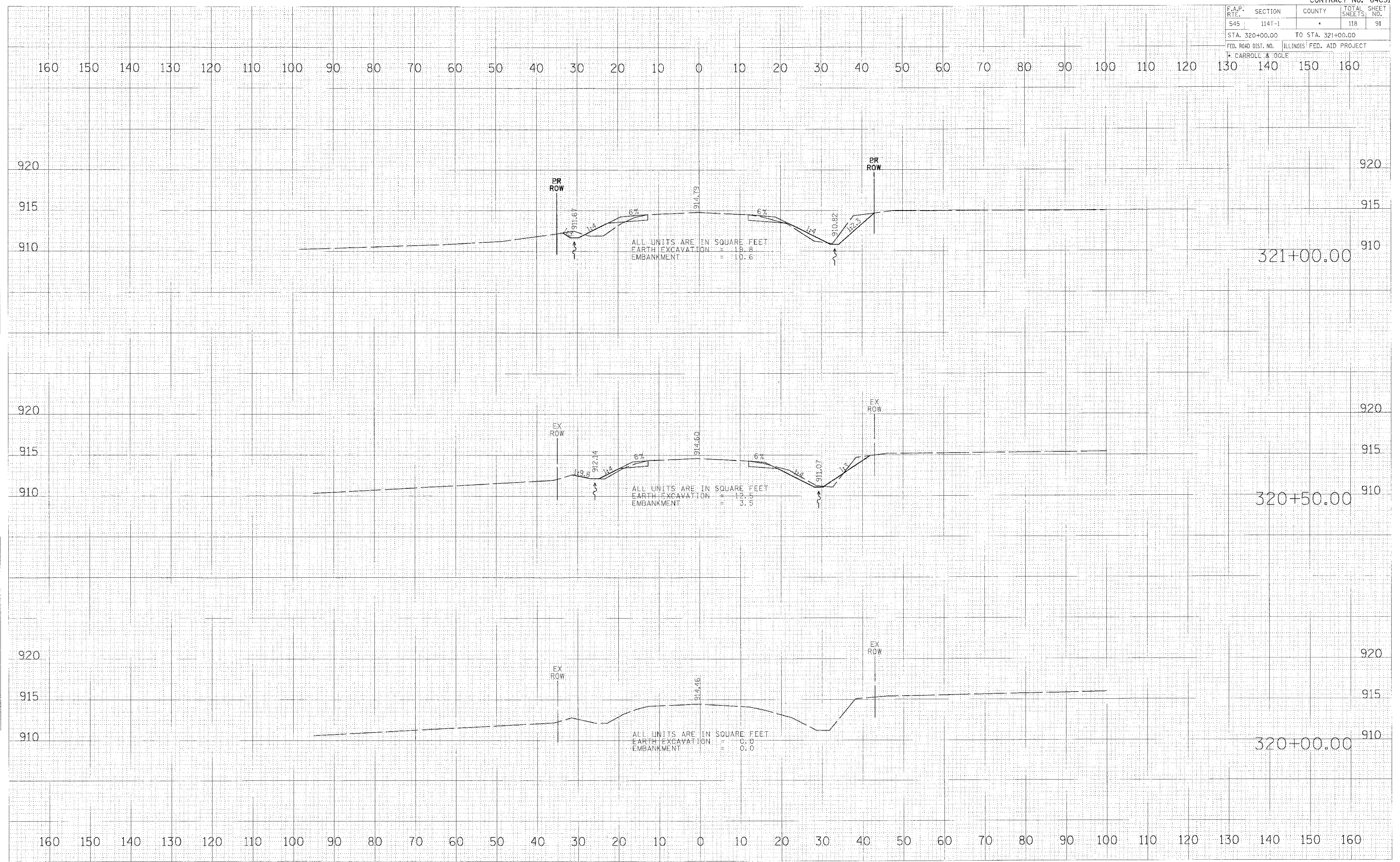
ALL UNITS ARE IN SQUARE FEET  
EARTH EXCAVATION 0.0  
EMBANKMENT 0.0

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1	*	118	91
STA. 320+00.00		TO STA. 321+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* CARROLL & OGLE				

SURVEY: 5/11/10  
 DATE: 5/11/10  
 DRAWN BY: J. W. BROWN  
 CHECKED BY: J. W. BROWN  
 AREA'S CHECKED:

SURVEY: 5/11/10  
 DATE: 5/11/10  
 DRAWN BY: J. W. BROWN  
 CHECKED BY: J. W. BROWN  
 AREA'S CHECKED:

PLOT DATE: 5/11/10  
 PLOT NAME: 114T-1  
 PLOT SCALE: 1"=40'  
 USER NAME: JWB

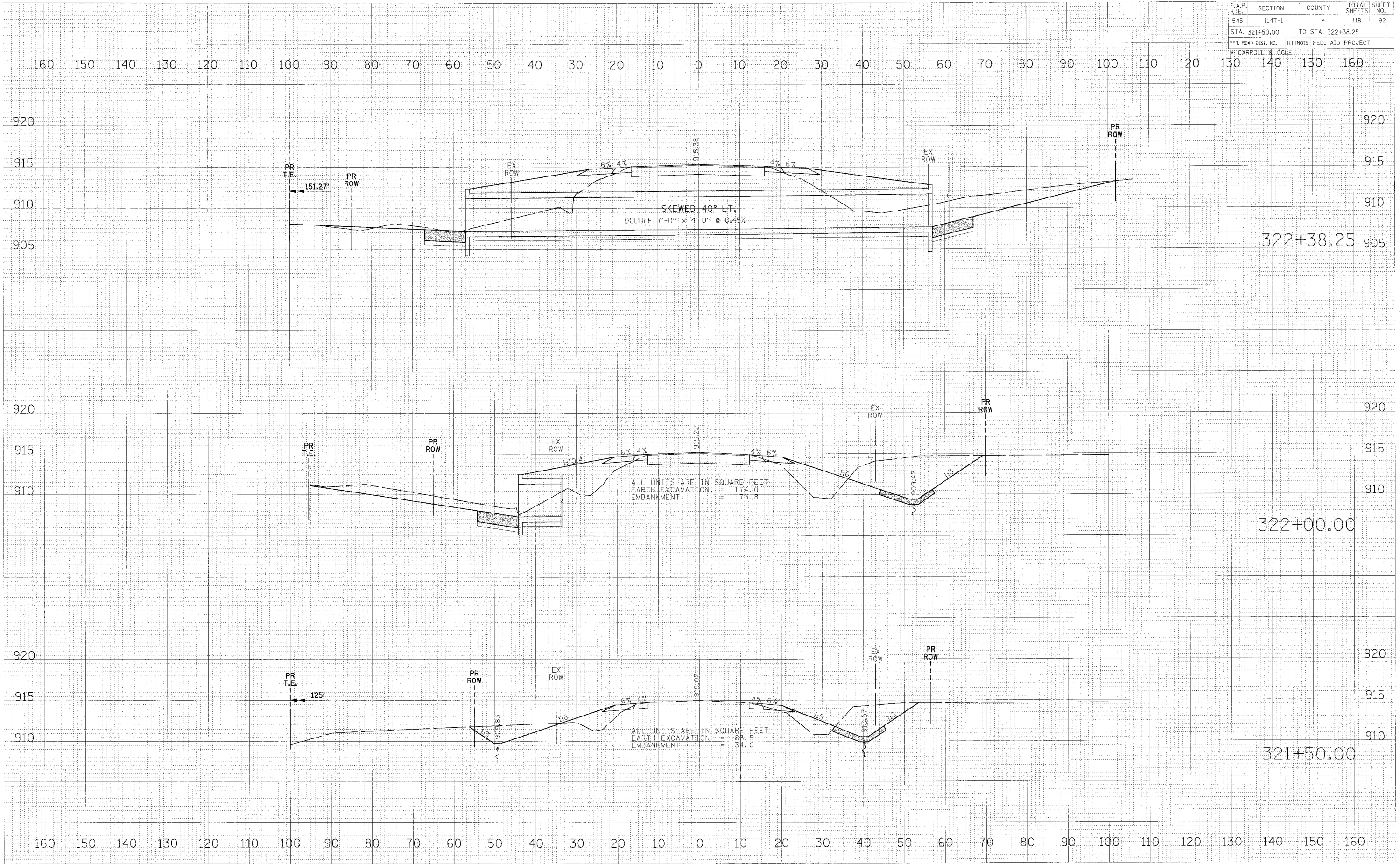


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1		118	92
STA. 321+50.00		TO STA. 322+38.25		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CARRROLL & OGLE				

SURVEY  
 DATE  
 NO.

SURVEY  
 DATE  
 NO.

PLOT DATE  
 FILE NAME  
 PLOT SCALE  
 USER NAME

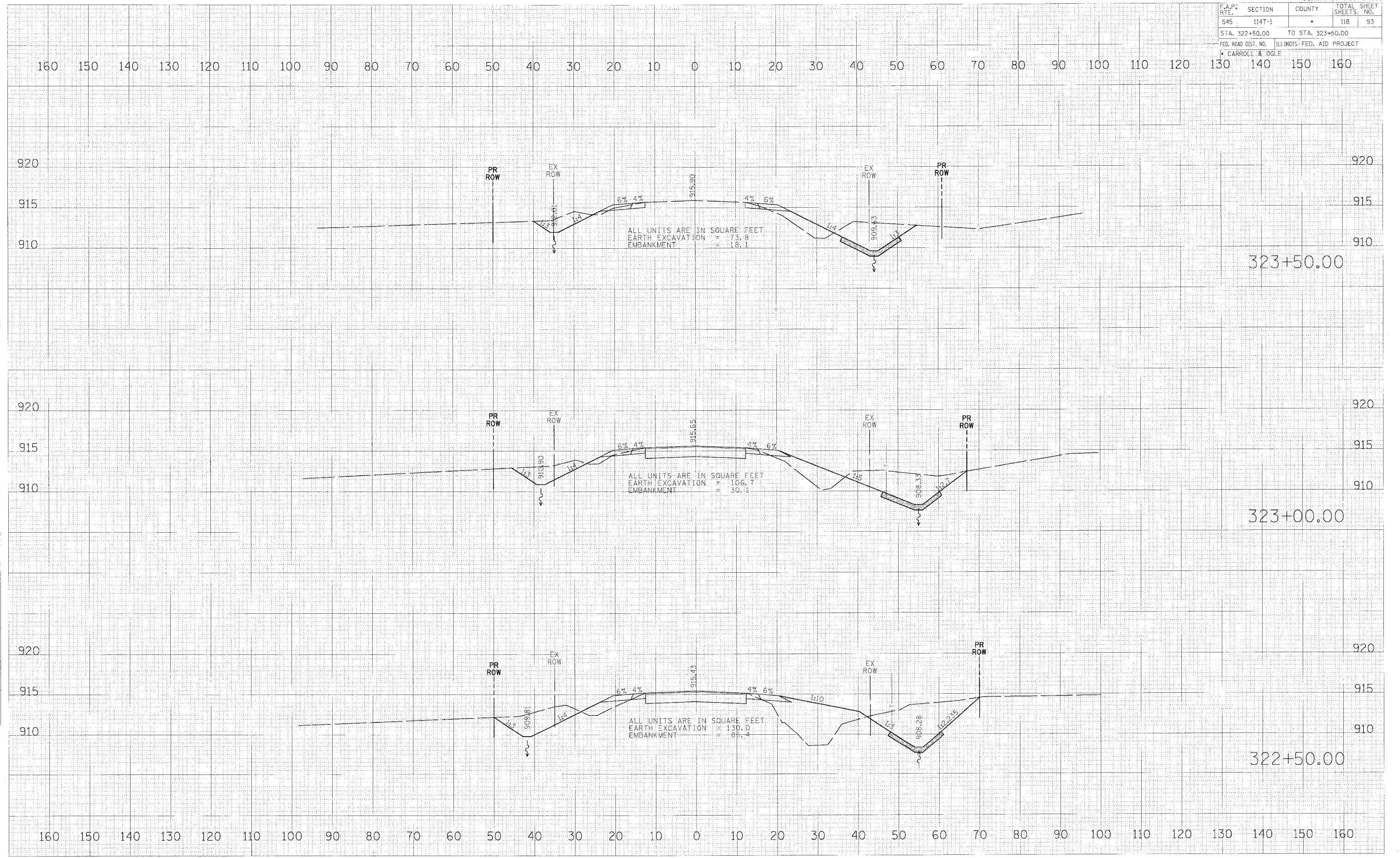


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS	NO.
545	114T-1	*	118	93
STA. 322+50.00		TO STA. 323+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* CARROLL & OGLE				

SURVEY  
 DATE  
 FILE NAME  
 PLOT SCALE  
 USER NAME

SURVEY  
 DATE  
 FILE NAME  
 PLOT SCALE  
 USER NAME

SURVEY  
 DATE  
 FILE NAME  
 PLOT SCALE  
 USER NAME

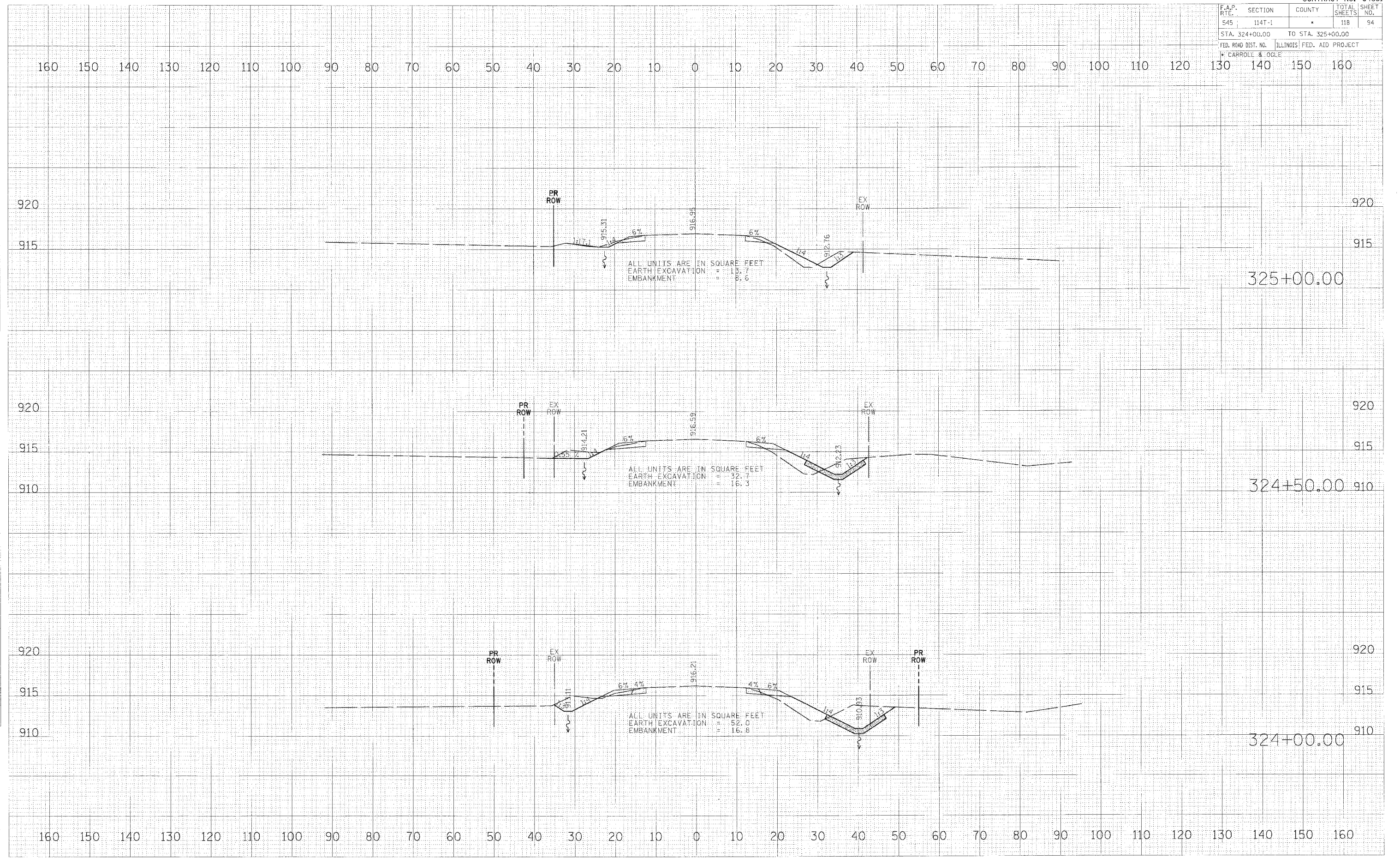


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1	*	118	94
STA. 324+00.00		TO STA. 325+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* CARROLL & OGLE				

SURVEY NO. 114T-1  
DATE 11/14/81  
BY J.P.S.

SURVEY NO. 114T-1  
DATE 11/14/81  
BY J.P.S.

DATE 11/14/81  
FILE NAME 114T-1  
PLOT SCALE 1"=40'  
USER NAME J.P.S.



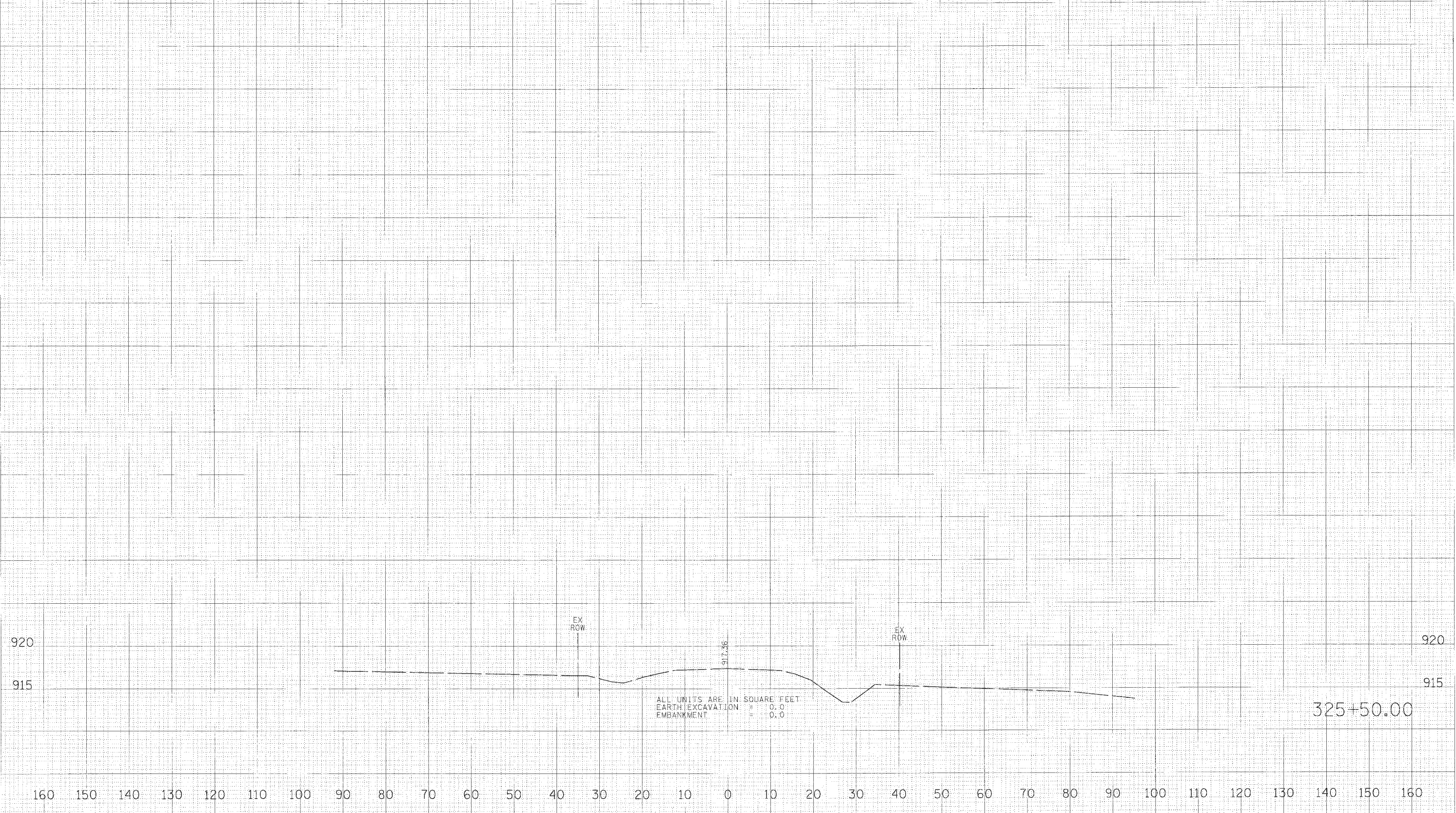
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS	NO.
545	114T-1		118	95
STA. 325+50.00		TO STA. 36+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* CARROLL & OGLE				

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

DATE: 11/11/11  
 SURVEY: 114T-1  
 PLOT DATE: 11/11/11  
 PLOT NAME: 114T-1  
 PLOT SCALE: 1"=40'  
 USER: JWB

DATE: 11/11/11  
 SURVEY: 114T-1  
 PLOT DATE: 11/11/11  
 PLOT NAME: 114T-1  
 PLOT SCALE: 1"=40'  
 USER: JWB

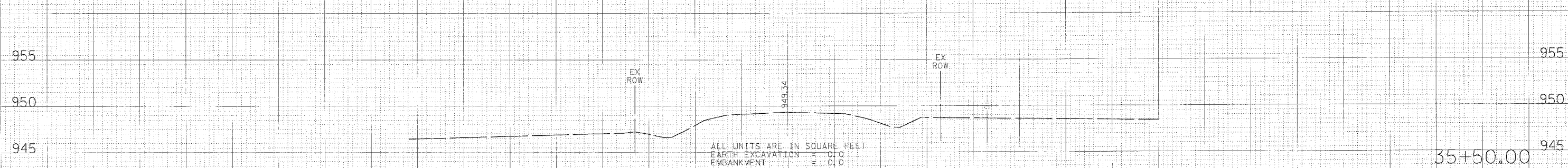
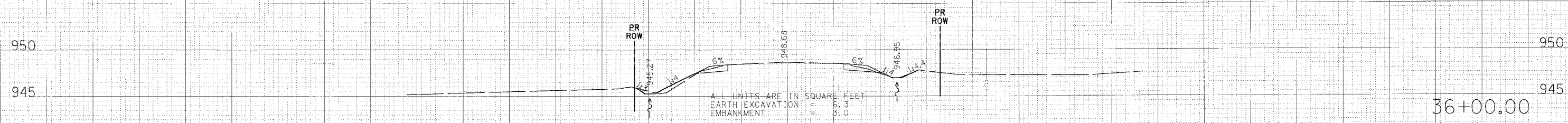
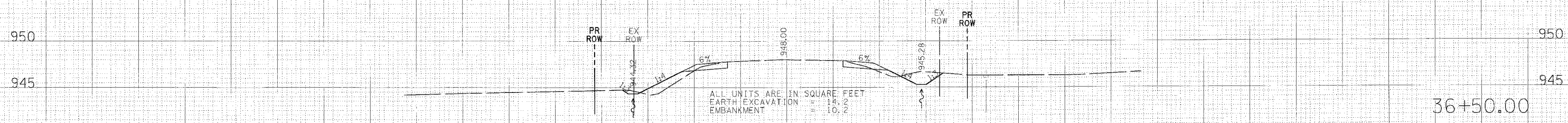
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 PLOT DATE: 11/11/11  
 PLOT NAME: 114T-1  
 PLOT SCALE: 1"=40'  
 USER: JWB





F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	1147-1	*	118	96
STA. 35+50.00		TO STA. 36+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* CARROLL & OGLE				

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160



160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

SURVEY:  REVIEWED:   
 TYPED:  CHECKED:   
 NO.

SURVEY:  REVIEWED:   
 TYPED:  CHECKED:   
 NO.

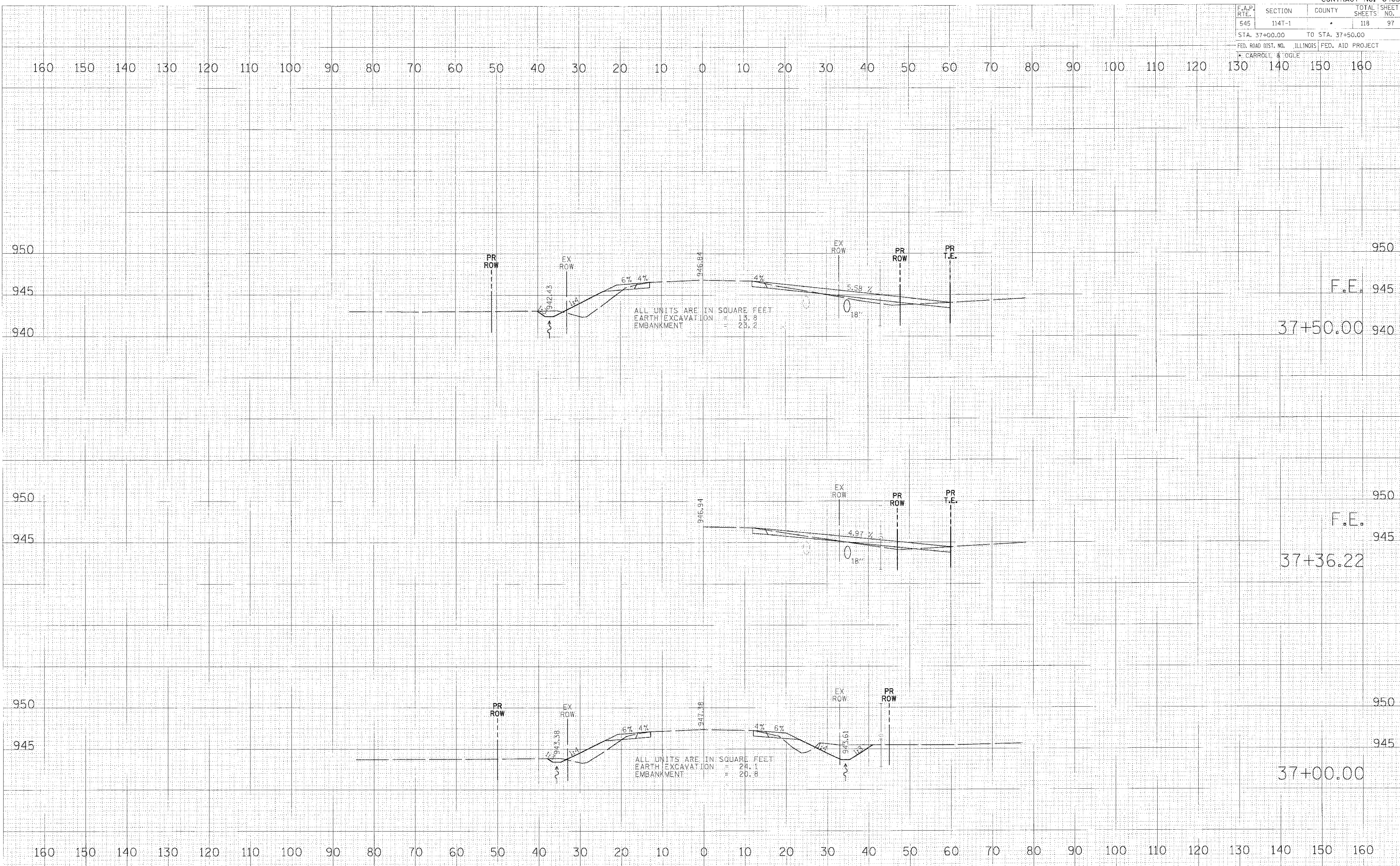
PLOT DATE:    
 FILE NAME:    
 PLOT SCALE:    
 USER NAME:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1	*	118	97
STA. 37+00.00 TO STA. 37+50.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
* CARROLL & OGLE				

DATE: 11/15/00  
 DRAWN BY: J. CARROLL  
 CHECKED BY: J. CARROLL  
 PLOT DATE: 11/15/00  
 PLOT SCALE: 1"=40'

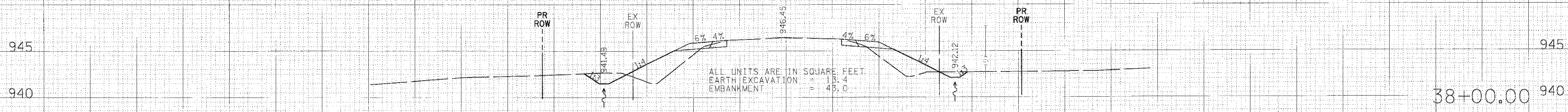
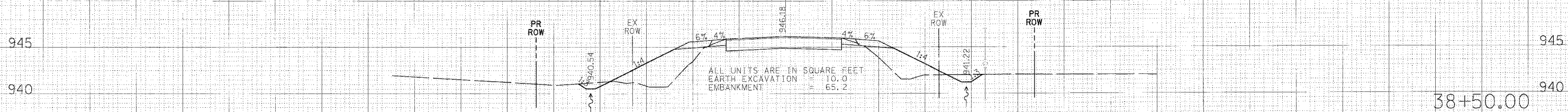
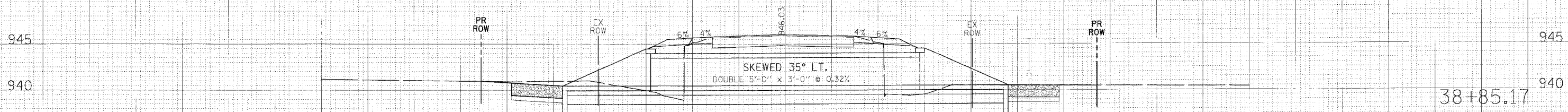
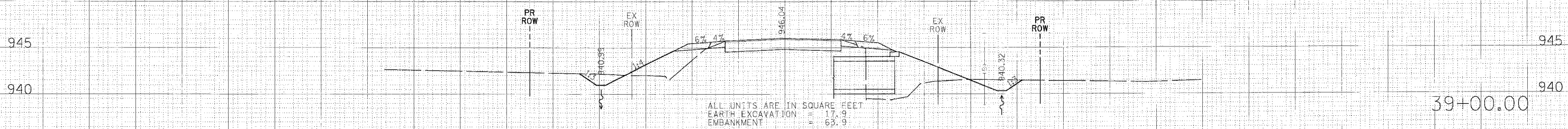
DATE: 11/15/00  
 DRAWN BY: J. CARROLL  
 CHECKED BY: J. CARROLL  
 PLOT DATE: 11/15/00  
 PLOT SCALE: 1"=40'

DATE: 11/15/00  
 DRAWN BY: J. CARROLL  
 CHECKED BY: J. CARROLL  
 PLOT DATE: 11/15/00  
 PLOT SCALE: 1"=40'



F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1	*	118	98
STA. 38+00.00		TO STA. 39+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* CARROLL & OGLE				

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160



160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

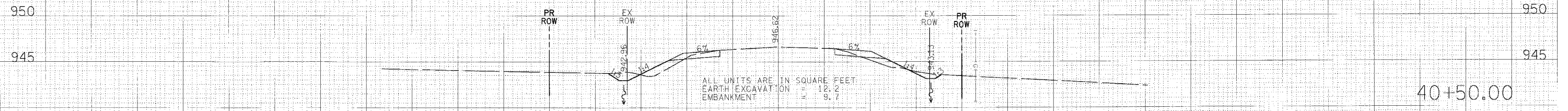
SURVEY  
 DATE  
 PLOTTED  
 FILE NAME  
 PLOT SCALE  
 USER NAME

SURVEY  
 DATE  
 PLOTTED  
 FILE NAME  
 PLOT SCALE  
 USER NAME

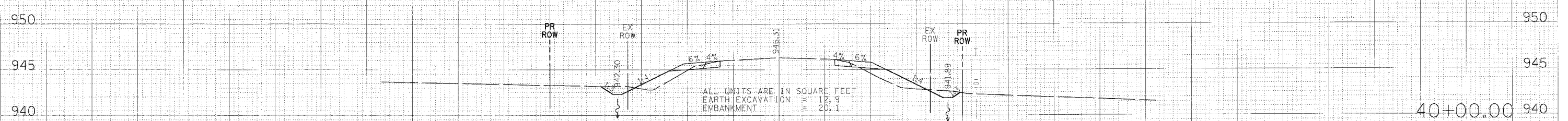
SURVEY  
 DATE  
 PLOTTED  
 FILE NAME  
 PLOT SCALE  
 USER NAME

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEET NO.
545	114T-1	•	118 99
STA. 39+50.00		TO STA. 40+50.00	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	
• CARROLL & OGLE			

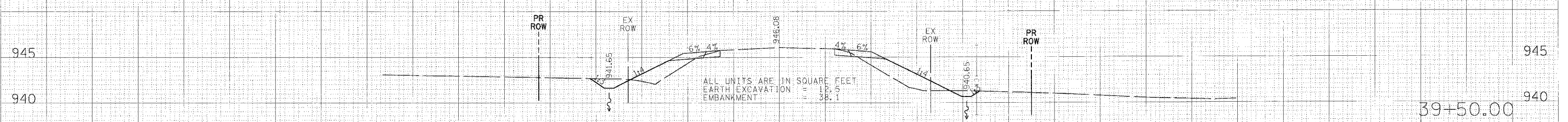
160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160



40+50.00



40+00.00



39+50.00

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

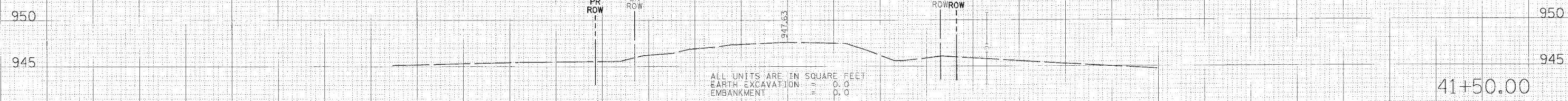
SURVEY  
 DATE  
 DRAWN BY  
 CHECKED BY  
 NO.

SURVEY  
 DATE  
 DRAWN BY  
 CHECKED BY  
 NO.

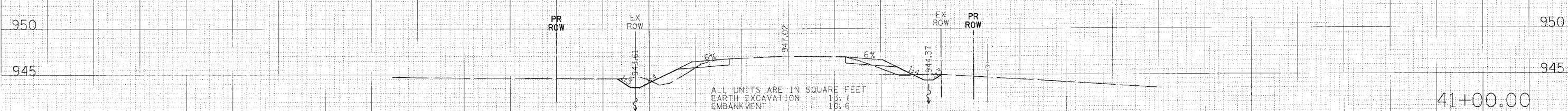
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 PLOT SCALE =  
 USER NAME =

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1	*	118	100
STA. 41+00.00		TO STA. 118+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* CARROLL & OGLE				

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160



41+50.00



41+00.00

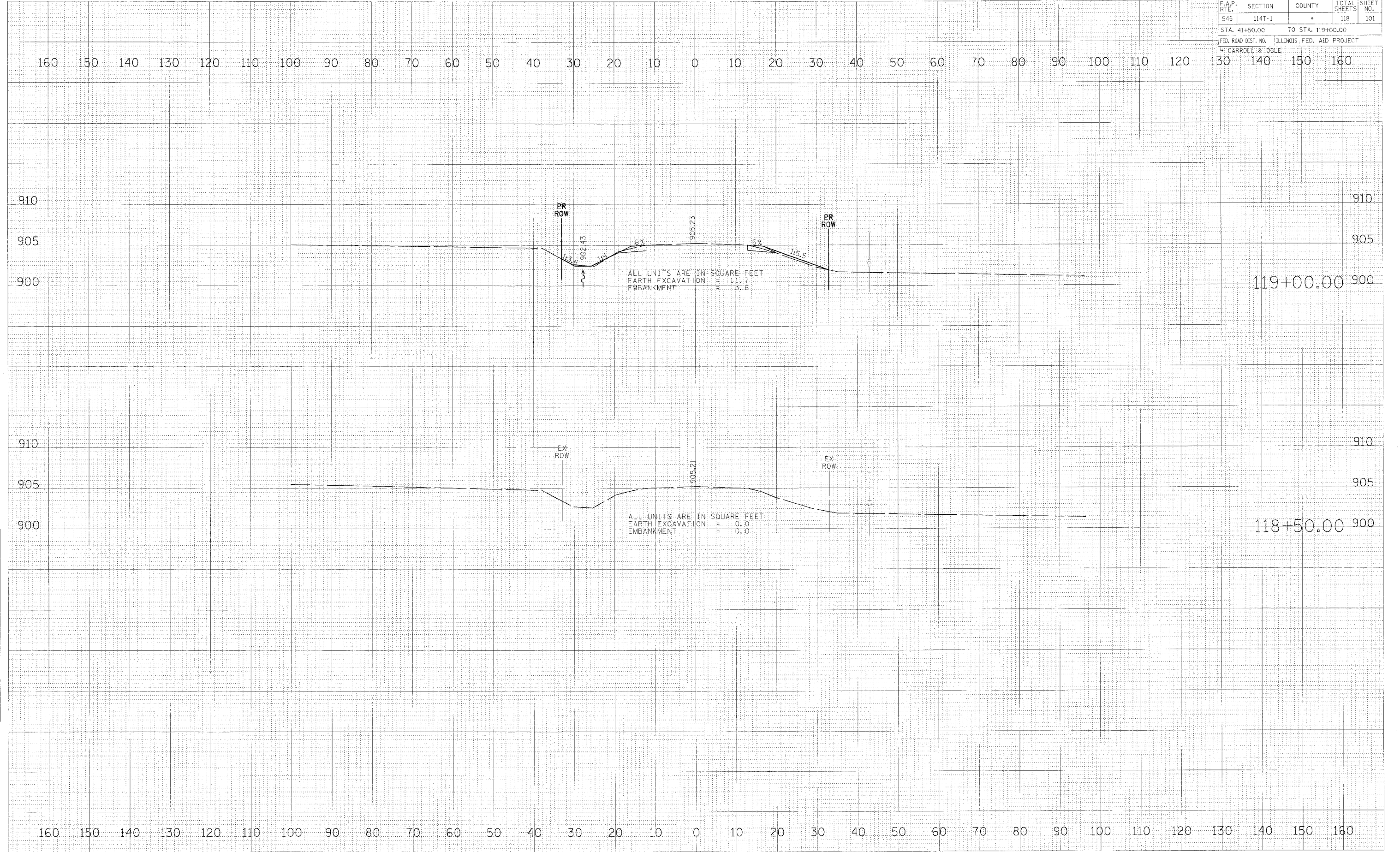
160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

DATE: 11/11/10  
 SURVEY: 11/11/10  
 DRAWN BY: J. B. BROWN  
 CHECKED BY: J. B. BROWN

DATE: 11/11/10  
 SURVEY: 11/11/10  
 DRAWN BY: J. B. BROWN  
 CHECKED BY: J. B. BROWN

DATE: 11/11/10  
 SURVEY: 11/11/10  
 DRAWN BY: J. B. BROWN  
 CHECKED BY: J. B. BROWN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1	*	118	101
STA. 41+50.00 TO STA. 119+00.00				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* CARROLL & OGLE				



SURVEY  
DATE  
NOTE BOOK  
NO.

LEVEL  
PLotted  
NOTE BOOK  
NO.

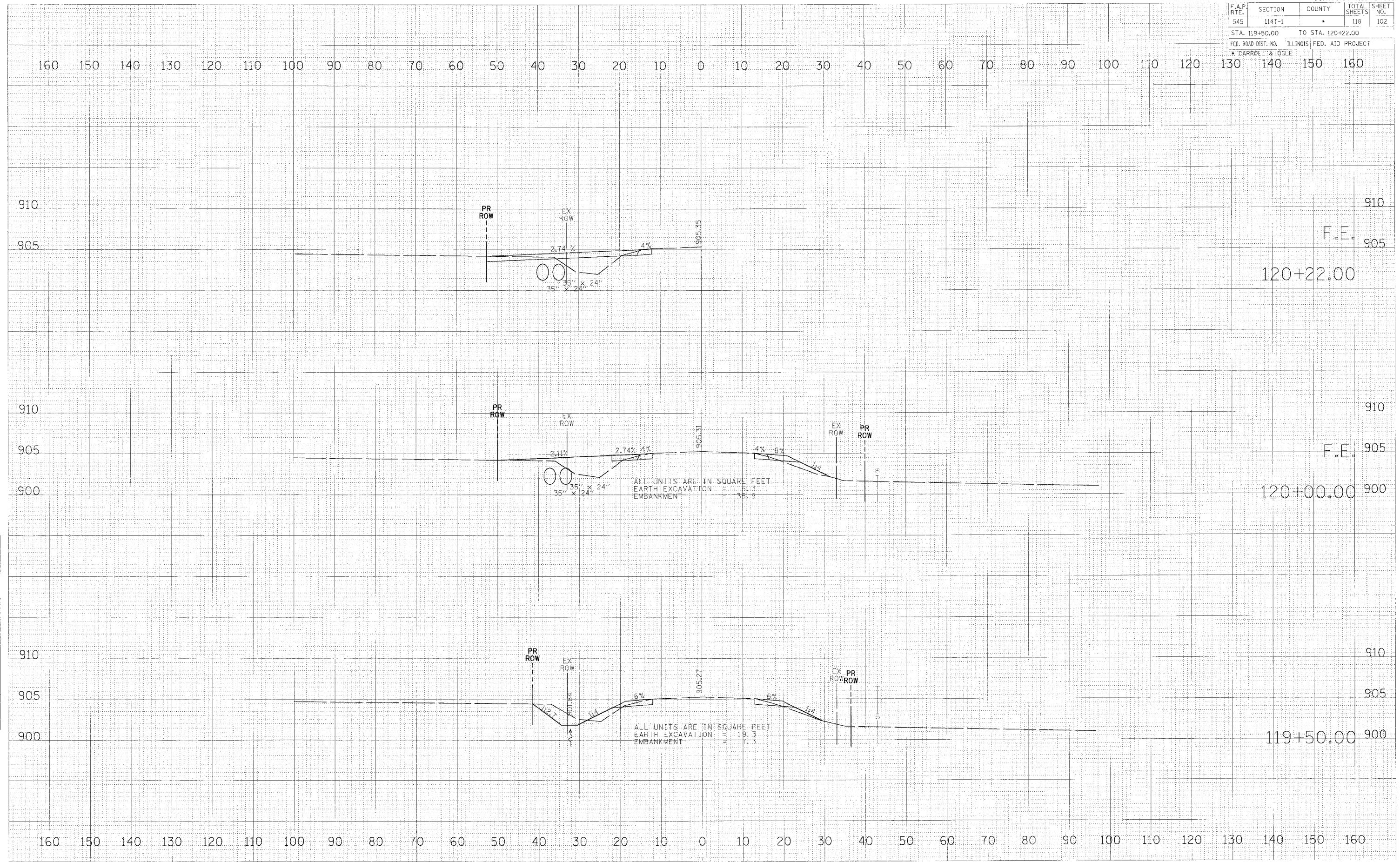
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FILE NAME = \$FILE\$  
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USER NAME = \$USER\$

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1		118	102
STA. 119+50.00		TO STA. 120+22.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* CARROEL & LOGLE				

DATE PLOTTED: 11/14/11  
 PLOT DATE: 11/14/11  
 PLOT NAME: 114T-1  
 PLOT SCALE: 1"=40'  
 USER NAME: MUSER

DATE PLOTTED: 11/14/11  
 PLOT DATE: 11/14/11  
 PLOT NAME: 114T-1  
 PLOT SCALE: 1"=40'  
 USER NAME: MUSER

DATE PLOTTED: 11/14/11  
 PLOT DATE: 11/14/11  
 PLOT NAME: 114T-1  
 PLOT SCALE: 1"=40'  
 USER NAME: MUSER

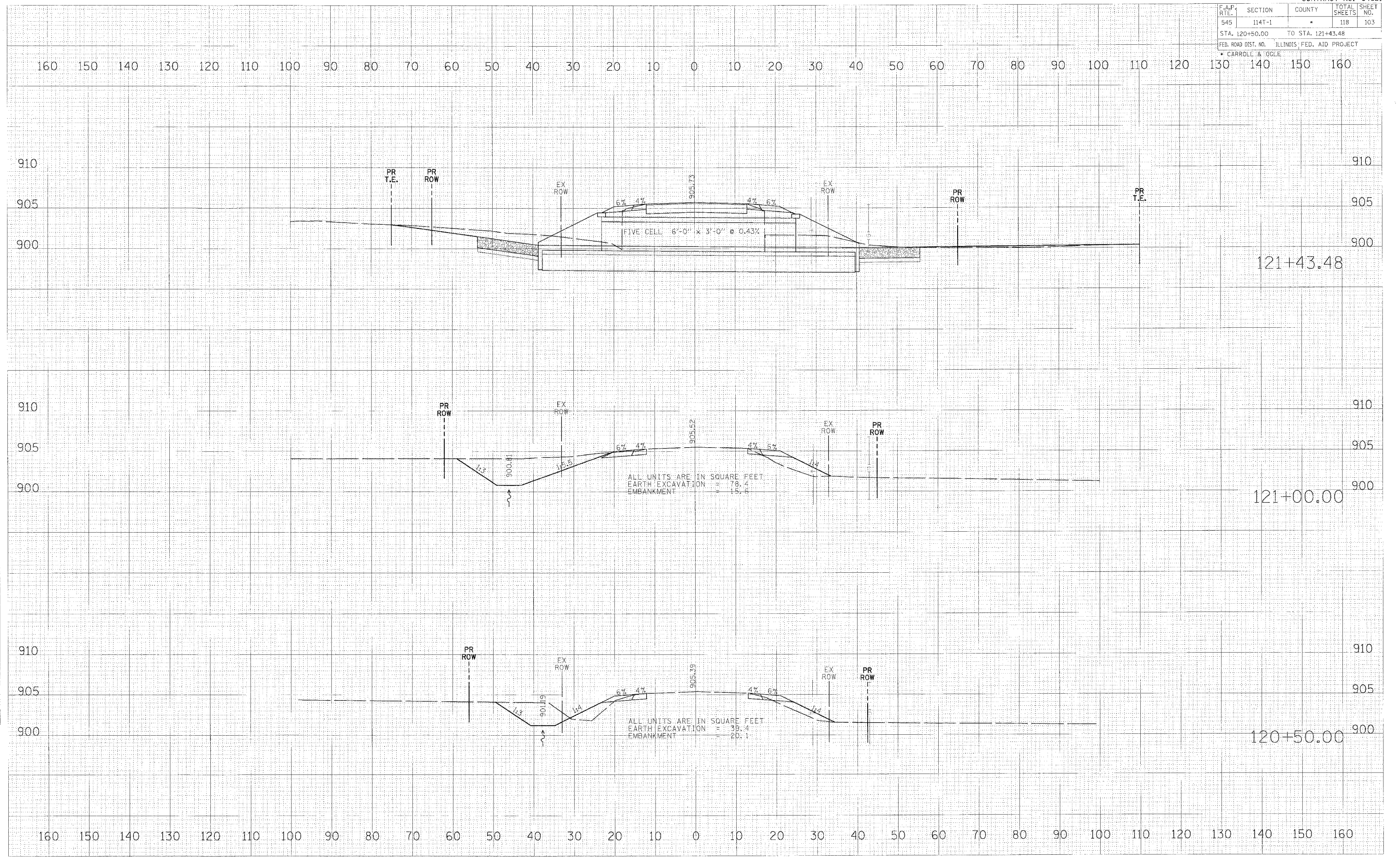


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1	*	118	103
STA. 120+50.00		TO STA. 121+43.48		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* CARROLL & OGLE				

SURVEY  
 DATE  
 DRAWN BY  
 CHECKED BY  
 DATE

SURVEY  
 DATE  
 DRAWN BY  
 CHECKED BY  
 DATE

PLOT DATE =  
 FILE NAME =  
 PLOT SCALE =  
 USER NAME =



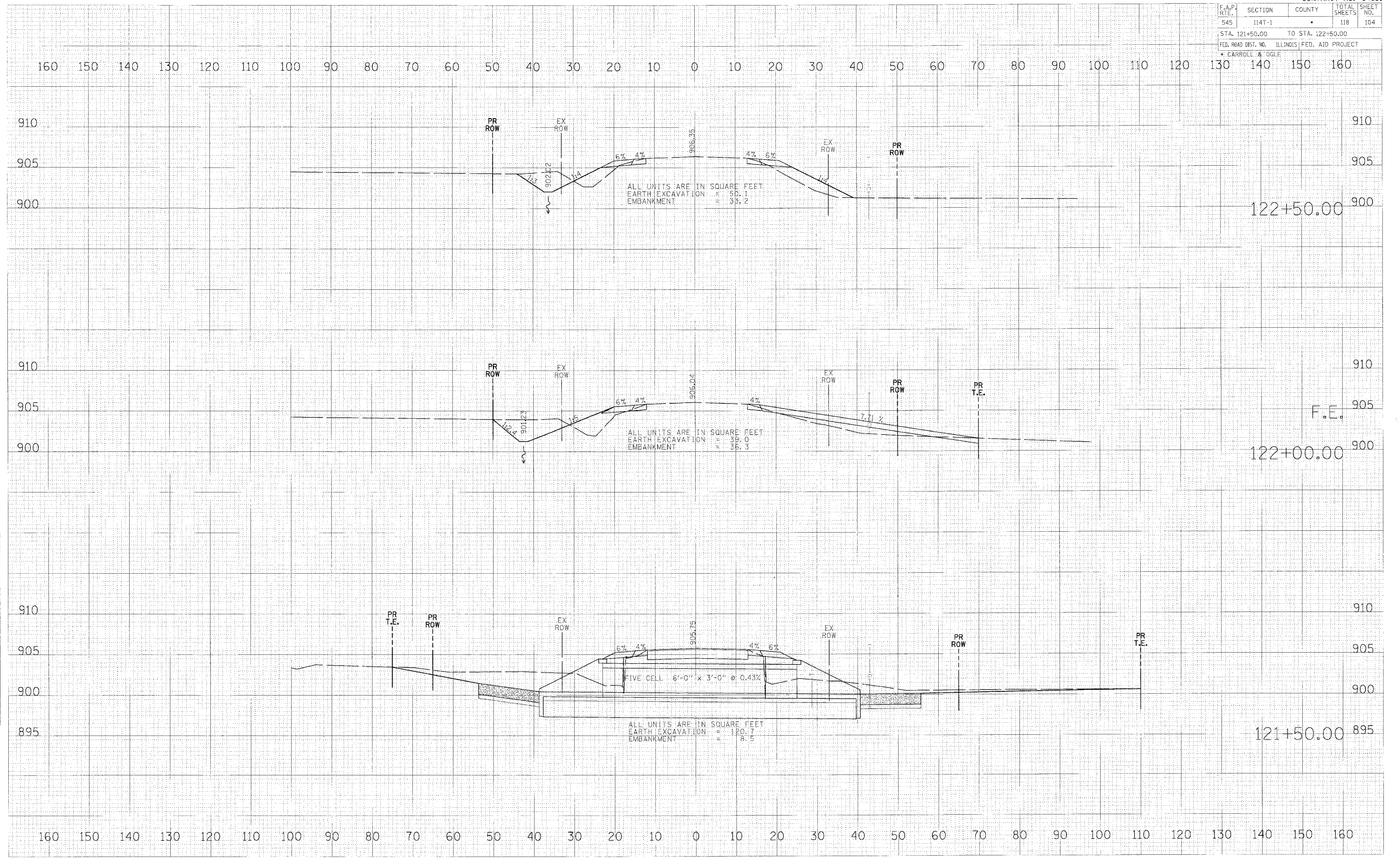


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1	•	118	104
STA. 121+50.00 TO STA. 122+50.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
• CARROLL & OGLE				

SURV. DATE: \_\_\_\_\_  
 SURV. BY: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 TEMPLATE: \_\_\_\_\_  
 AREA: \_\_\_\_\_  
 DATE: \_\_\_\_\_

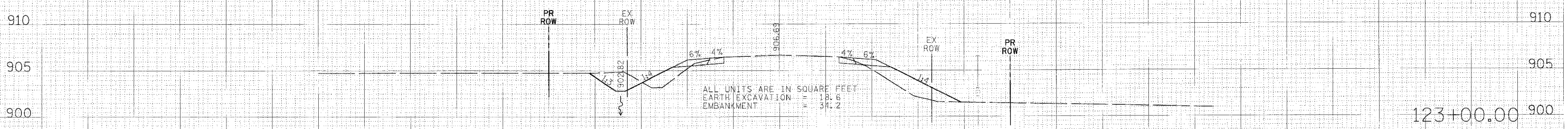
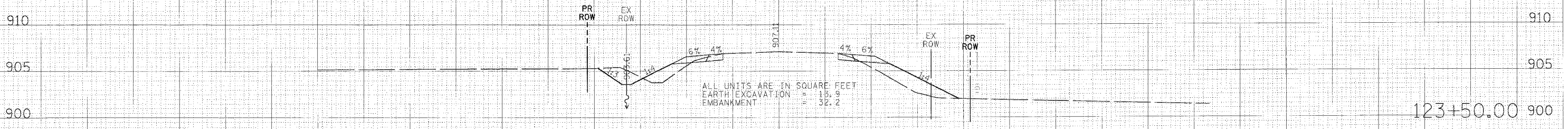
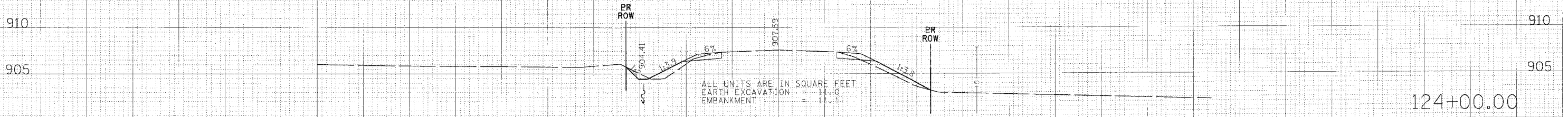
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 SURV. BY: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 TEMPLATE: \_\_\_\_\_  
 AREA: \_\_\_\_\_  
 DATE: \_\_\_\_\_

PLOT DATE: \_\_\_\_\_  
 FILE NAME: \_\_\_\_\_  
 PLOT SCALE: \_\_\_\_\_  
 USER NAME: \_\_\_\_\_



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1		118	105
STA. 123+00.00 TO STA. 124+00.00				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CARRROLL & OGLE				

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160



160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

SURVEY PLOTTED  
 NOTE BOOK NO. \_\_\_\_\_  
 NO. \_\_\_\_\_  
 AREAS CHECKED

SURVEY PLOTTED  
 NOTE BOOK NO. \_\_\_\_\_  
 NO. \_\_\_\_\_  
 AREAS CHECKED

PLOT DATE = 8/24/88  
 PLOT SCALE = 1" = 40'  
 PLOT NAME = 880808  
 USER NAME = BUSER88

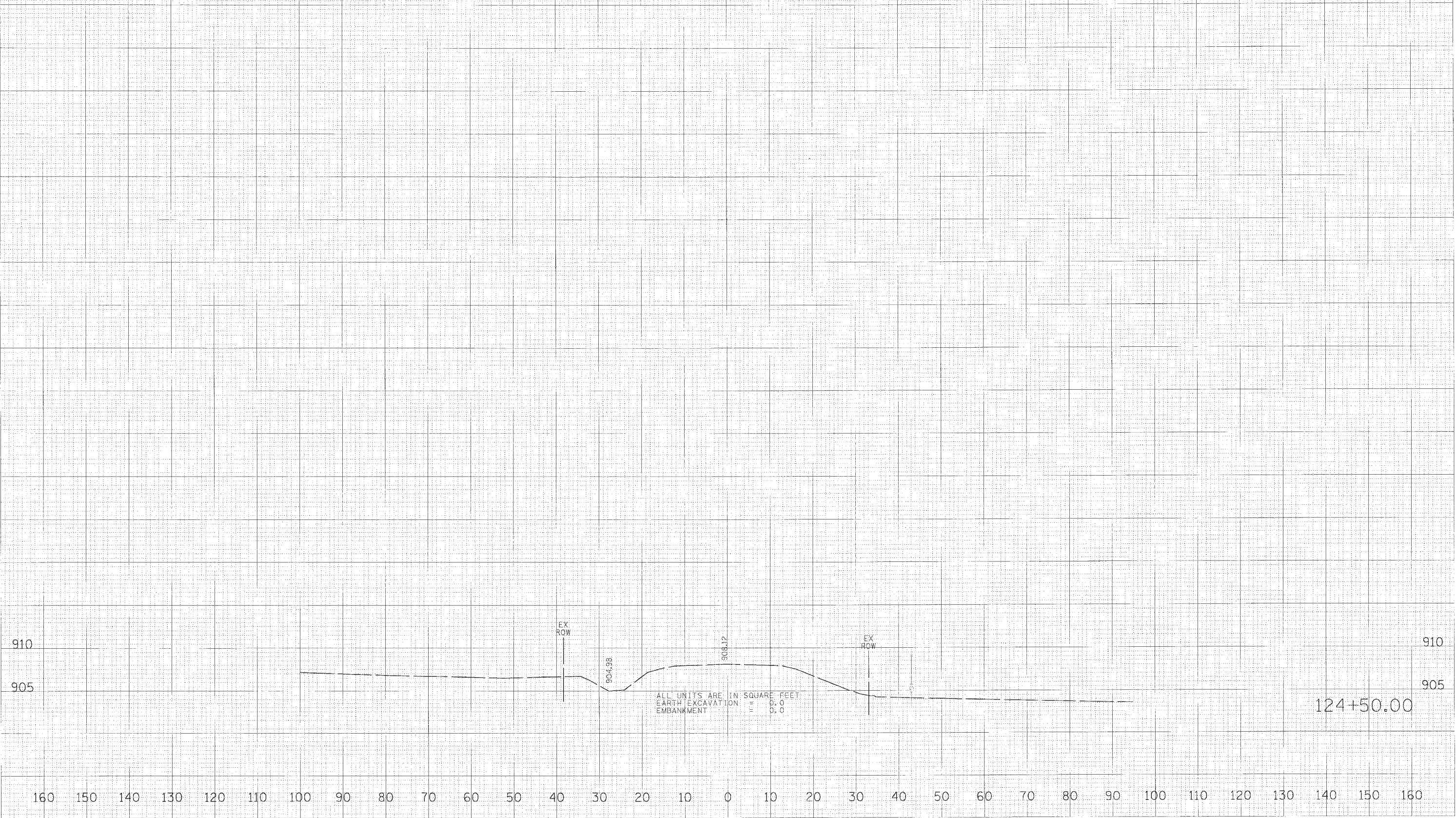
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1	*	118	106
STA. 124+50.00		TO STA. 143+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* CARROLL & OGLE				

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

SURVEY  
 NO. 1000  
 AREAS CHECKED

SURVEY  
 NO. 1000  
 AREAS CHECKED

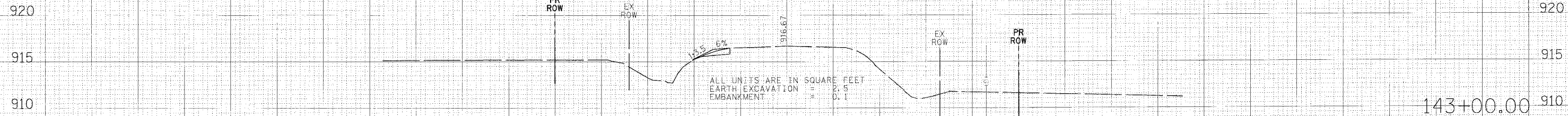
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 FILE NAME = 01/25/88  
 PLOT SCALE = 1/4"=100'  
 USER NAME = RUSBY



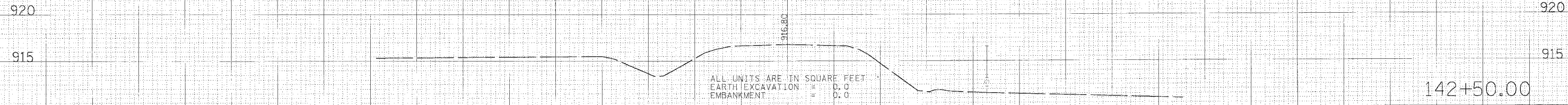
124+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1	•	118	107
STA. 124+50.00 TO STA. 143+00.00				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
K. CARROLL & OGLE				

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160



143+00.00



142+50.00

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

DATE PLOTTED: 11/11/11  
 PLOTTER: HPGL  
 PLOT SCALE: 1"=40'  
 USER: J. CARROLL & OGLE

DATE PLOTTED: 11/11/11  
 PLOTTER: HPGL  
 PLOT SCALE: 1"=40'  
 USER: J. CARROLL & OGLE

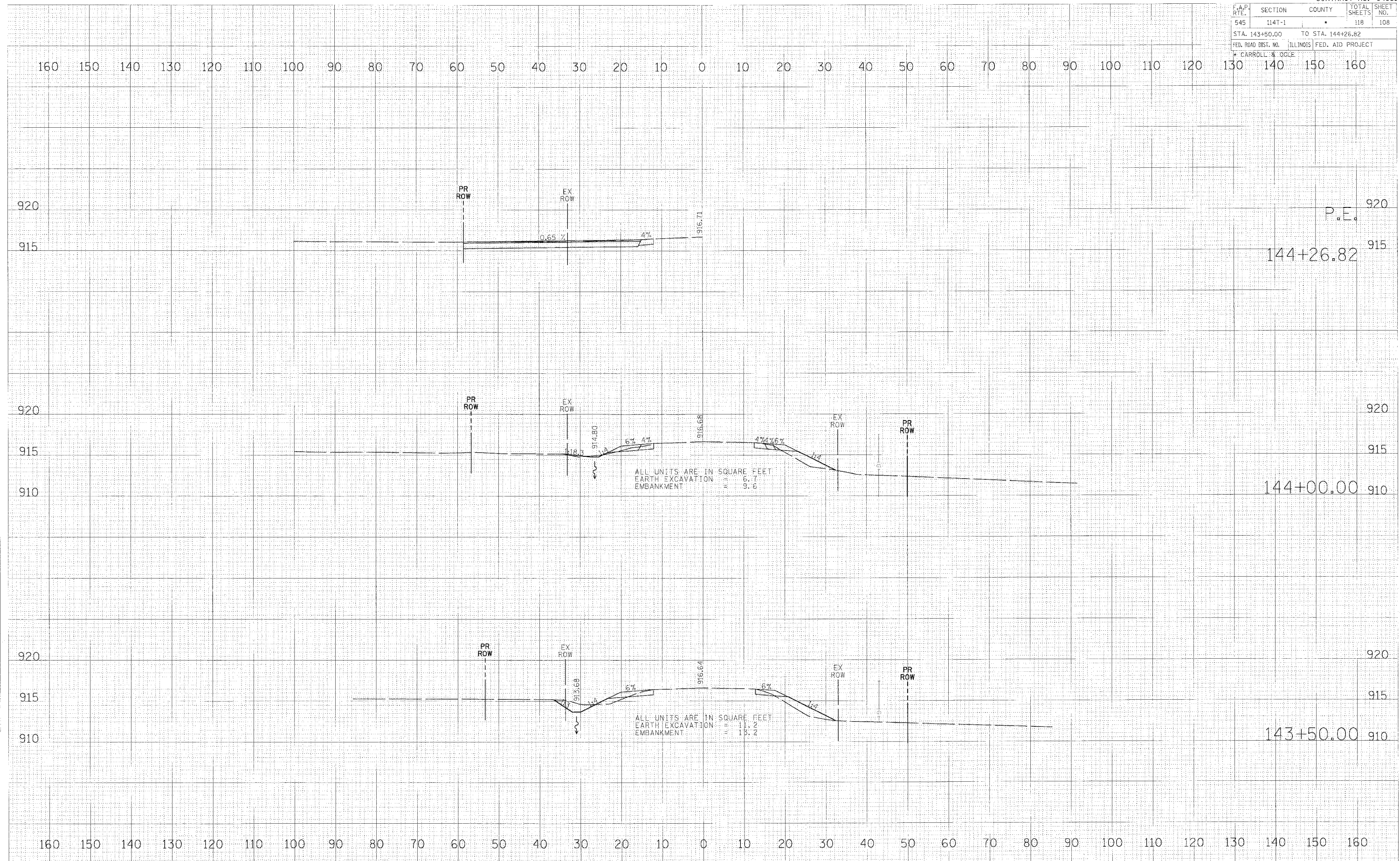
DATE PLOTTED: 11/11/11  
 PLOTTER: HPGL  
 PLOT SCALE: 1"=40'  
 USER: J. CARROLL & OGLE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1		118	108
STA. 143+50.00		TO STA. 144+26.82		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CARROLL & OGLE				

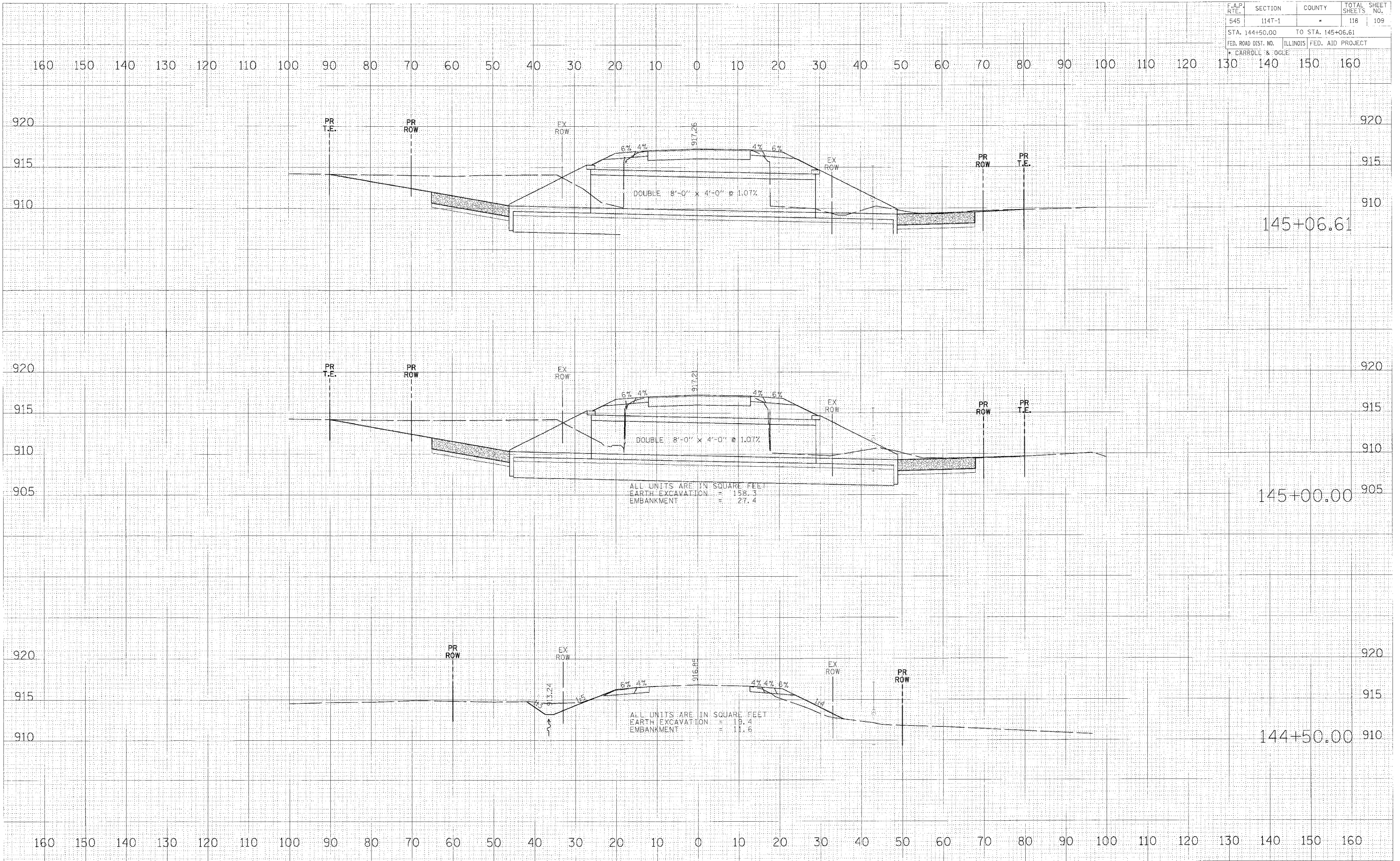
CURVE  
 NAME  
 AREA  
 AREA

CURVE  
 NAME  
 AREA  
 AREA

DATE  
 FILE  
 SCALE  
 USER



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1	*	118	109
STA. 144+50.00		TO STA. 145+06.61		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* CARROLL & TOGLE				



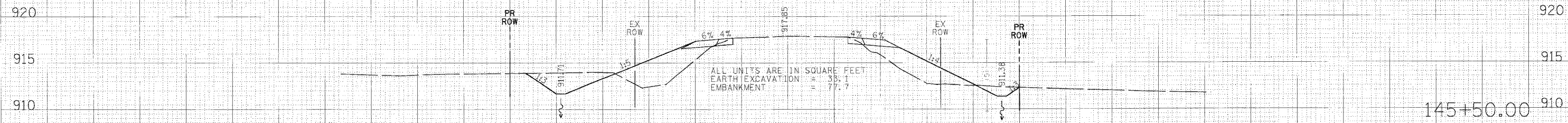
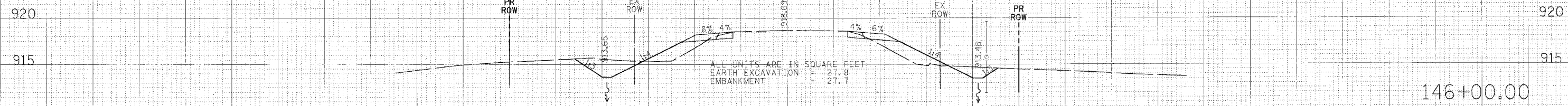
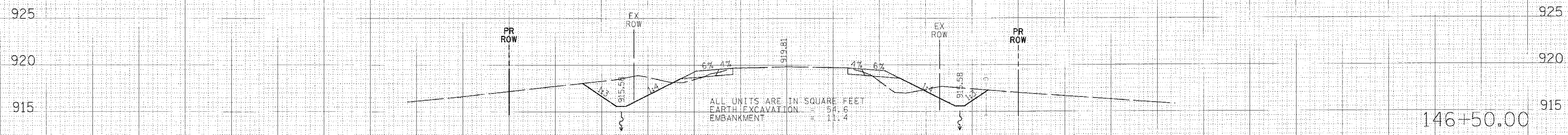
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 USER: \_\_\_\_\_

PLOTTED  
 DATE: \_\_\_\_\_  
 FILE NAME: \_\_\_\_\_  
 USER: \_\_\_\_\_

PLOTTED  
 DATE: \_\_\_\_\_  
 FILE NAME: \_\_\_\_\_  
 USER: \_\_\_\_\_

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1	*	118	110
STA. 145+50.00		TO STA. 146+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* CARROLL & OGLE				

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160



160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

DATE OF SURVEY: \_\_\_\_\_  
 NAME OF SURVEYOR: \_\_\_\_\_  
 PROJECT NO.: \_\_\_\_\_

DATE OF SURVEY: \_\_\_\_\_  
 NAME OF SURVEYOR: \_\_\_\_\_  
 PROJECT NO.: \_\_\_\_\_

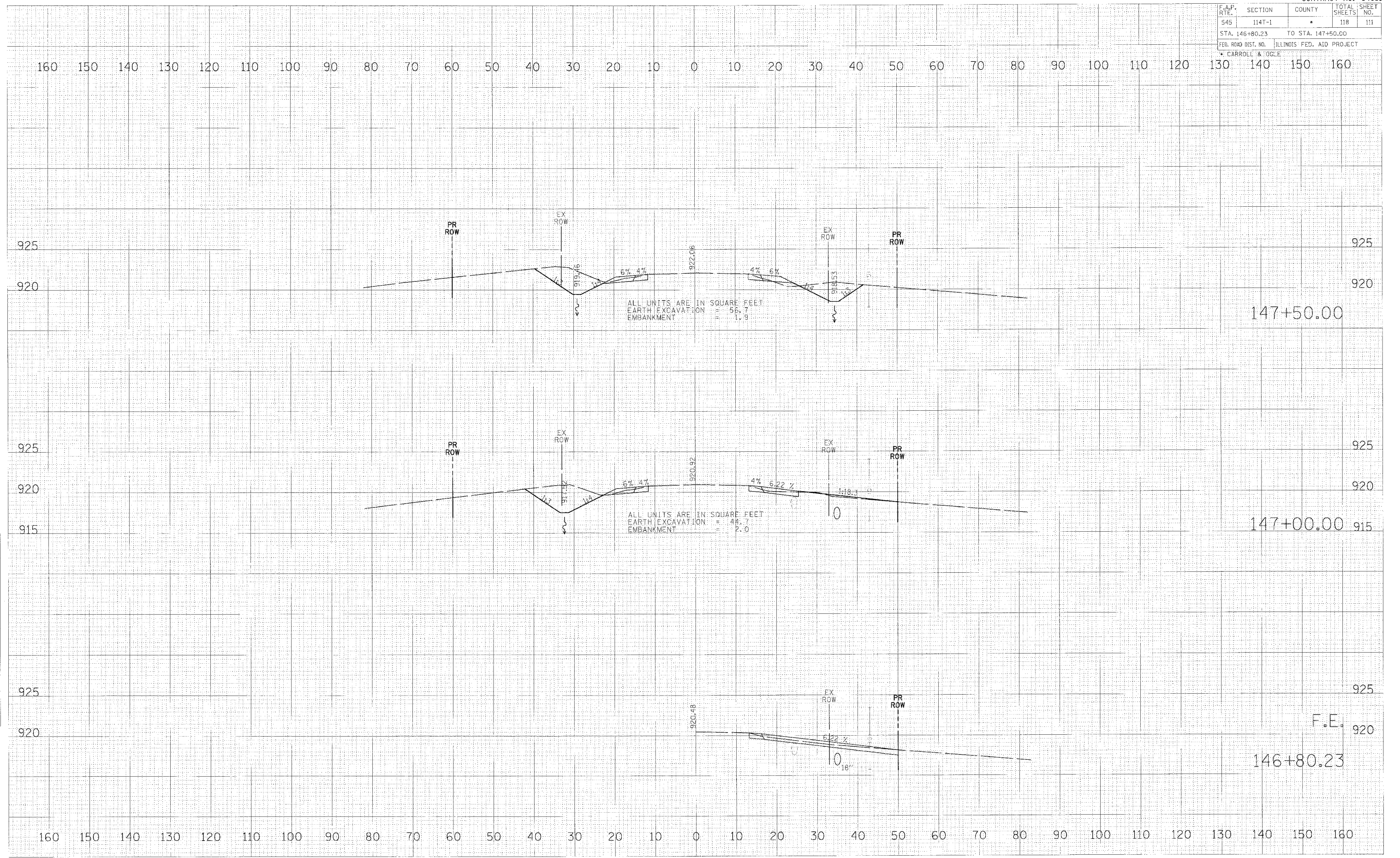
DATE OF SURVEY: \_\_\_\_\_  
 NAME OF SURVEYOR: \_\_\_\_\_  
 PROJECT NO.: \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1	•	118	111
STA. 146+80.23		TO STA. 147+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
• CARROLL & BOGLE				

SURVEY  
 DATE  
 PROJECT  
 DRAWING  
 SHEET NO.  
 SCALE  
 USER

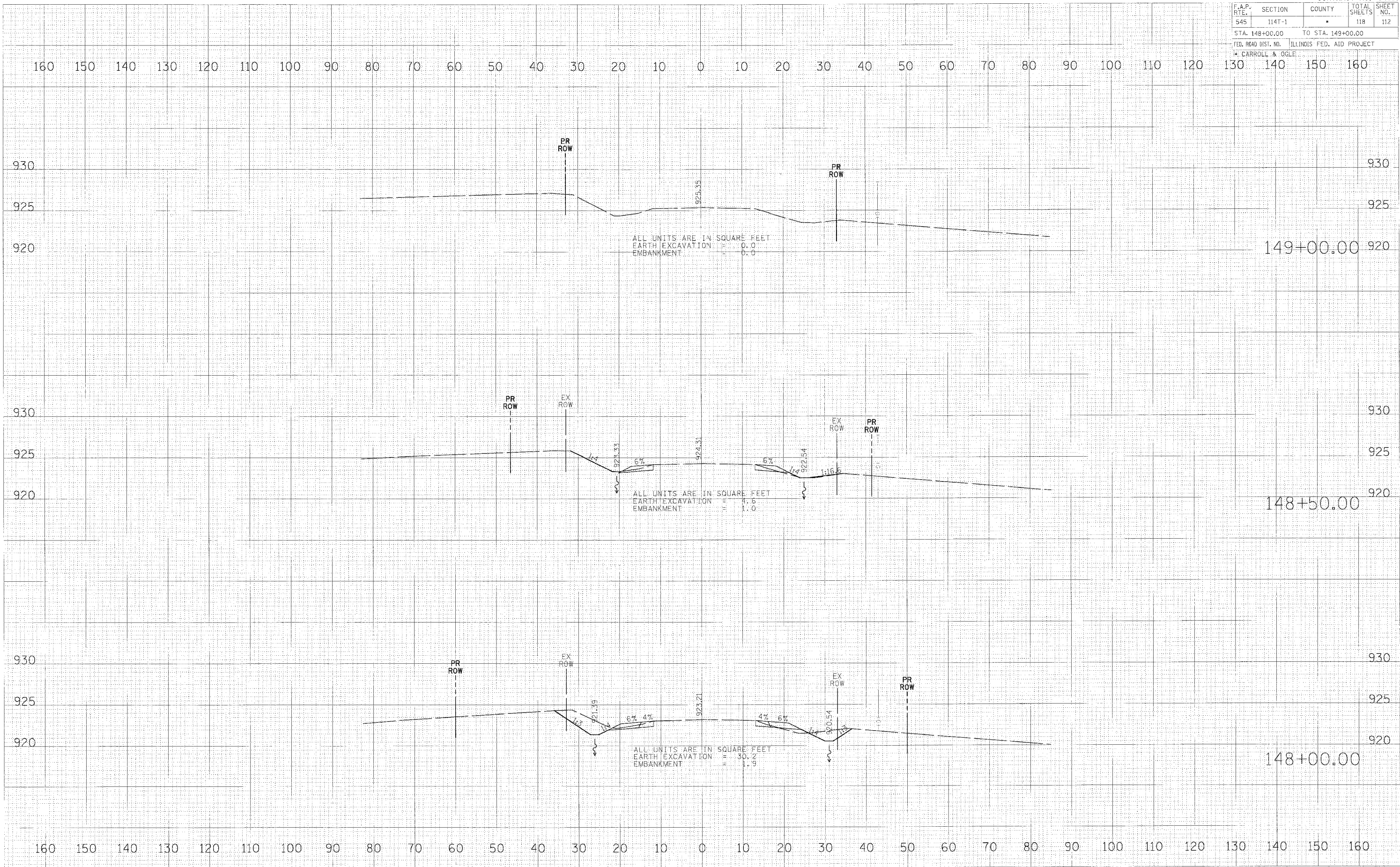
SURVEY  
 DATE  
 PROJECT  
 DRAWING  
 SHEET NO.  
 SCALE  
 USER

SURVEY  
 DATE  
 PROJECT  
 DRAWING  
 SHEET NO.  
 SCALE  
 USER





F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	114T-1	*	118	112
STA. 148+00.00		TO STA. 149+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* CARROLL & OGLE				



DATE: 10/11/00  
 SURVEY: 10/11/00  
 PLOT: 10/11/00  
 AREA: 10/11/00  
 USER: 10/11/00

DATE: 10/11/00  
 SURVEY: 10/11/00  
 PLOT: 10/11/00  
 AREA: 10/11/00  
 USER: 10/11/00

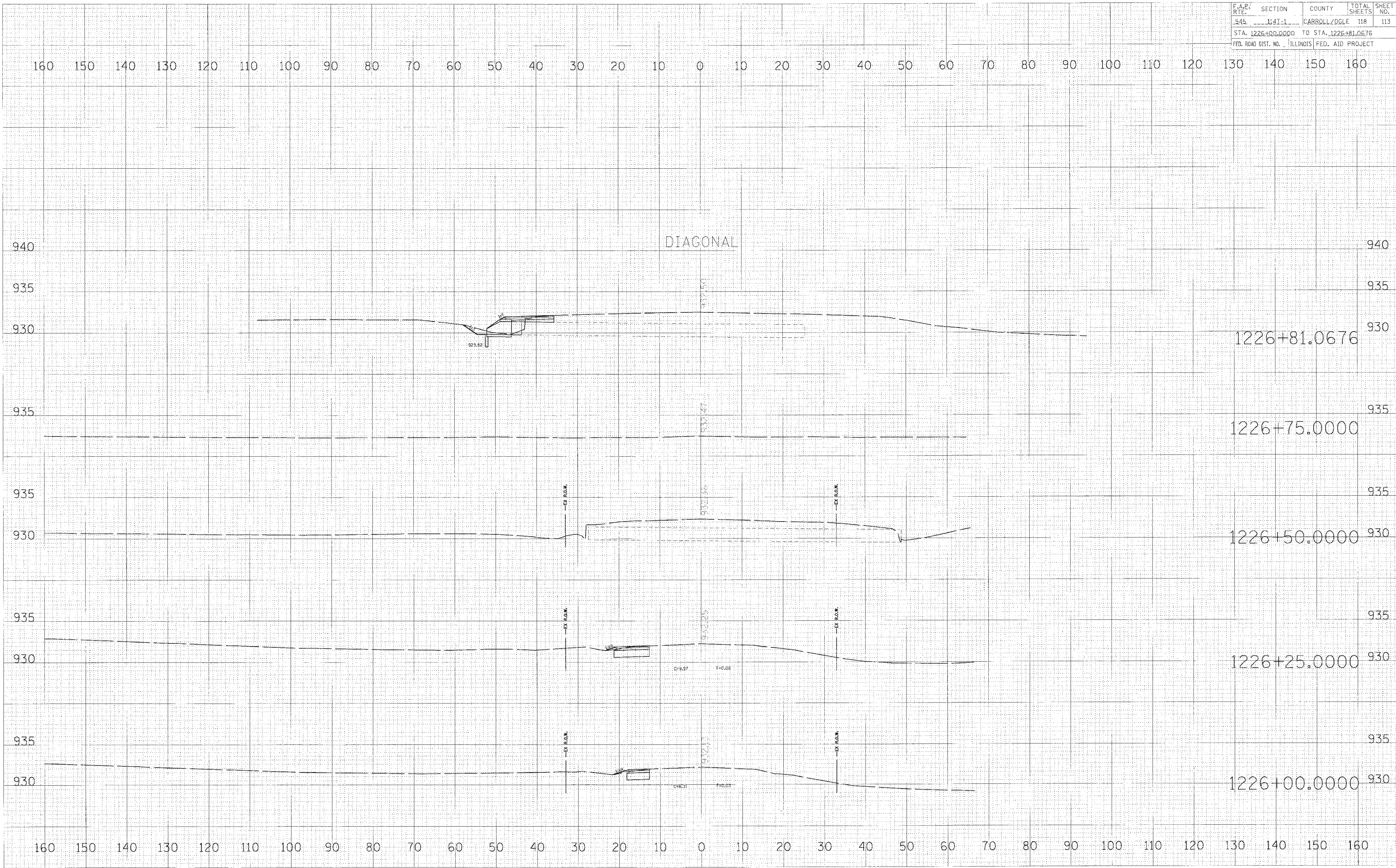
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 SURVEY: 10/11/00  
 PLOT: 10/11/00  
 AREA: 10/11/00  
 USER: 10/11/00

CONTRACT NO. 64C31				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	U41-1	CARROLL/DGLE	118	113
STA. 1226+00.0000 TO STA. 1226+81.0676				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SURVEY NO. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 BY \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 APPROVED \_\_\_\_\_

SURVEY NO. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 BY \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 APPROVED \_\_\_\_\_

PLOT DATE = @DATE@  
 FILE NAME = @FILES@  
 USER NAME = @USER@

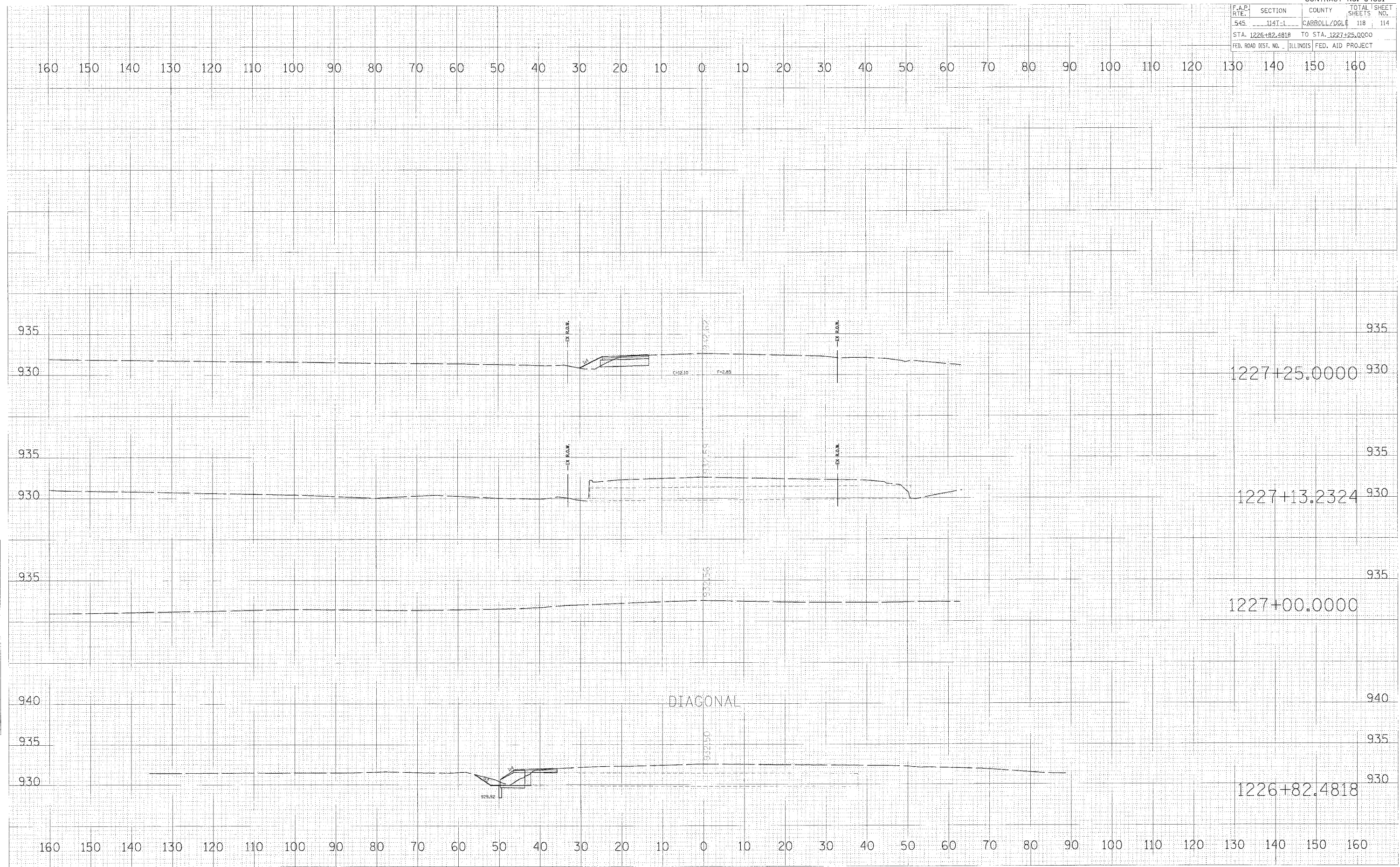


CONTRACT NO. 64C31			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
545	114T-1	CARROLL/OGLE	118 114
STA. 1226+82.4818		TO STA. 1227+25.0000	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	

SURVEY: DATE: 10/15/00  
 NOTE BOOK: TMA 11  
 AREA: AREA CHECKED:

SURVEY: DATE: 10/15/00  
 NOTE BOOK: TMA 11  
 AREA: AREA CHECKED:

PLOT DATE: 10/15/00  
 FILE NAME: 114T-1  
 PLOT SCALE: 1"=50'  
 USER NAME: JUSP



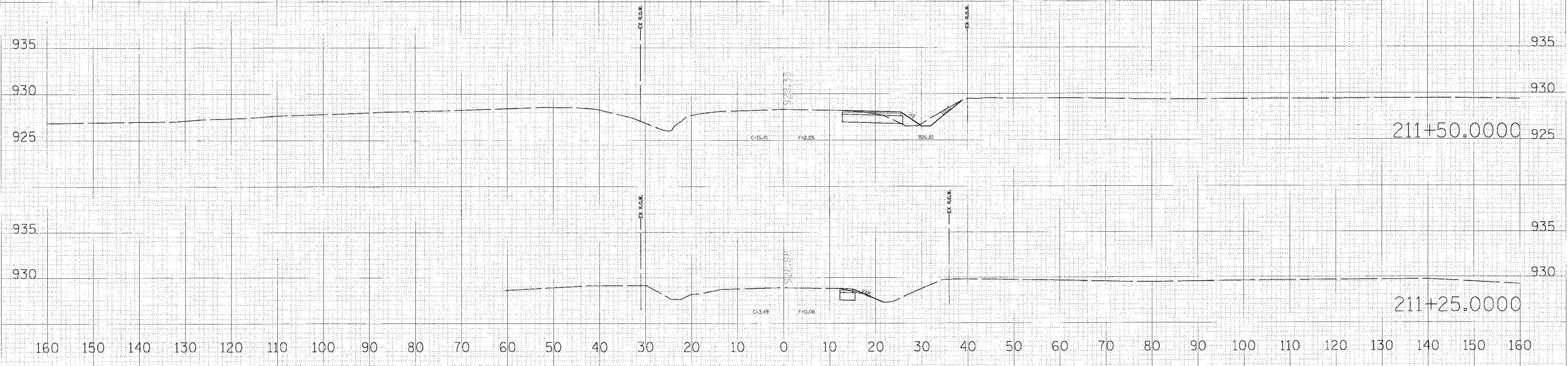
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	U4T-1	CARROLL/DGLE	118	115
STA. 211+25.0000		TO STA. 211+50.0000		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

SYMBOL  
NOTE BOOK  
AREA  
CHECKED

SYMBOL  
NOTE BOOK  
AREA  
CHECKED

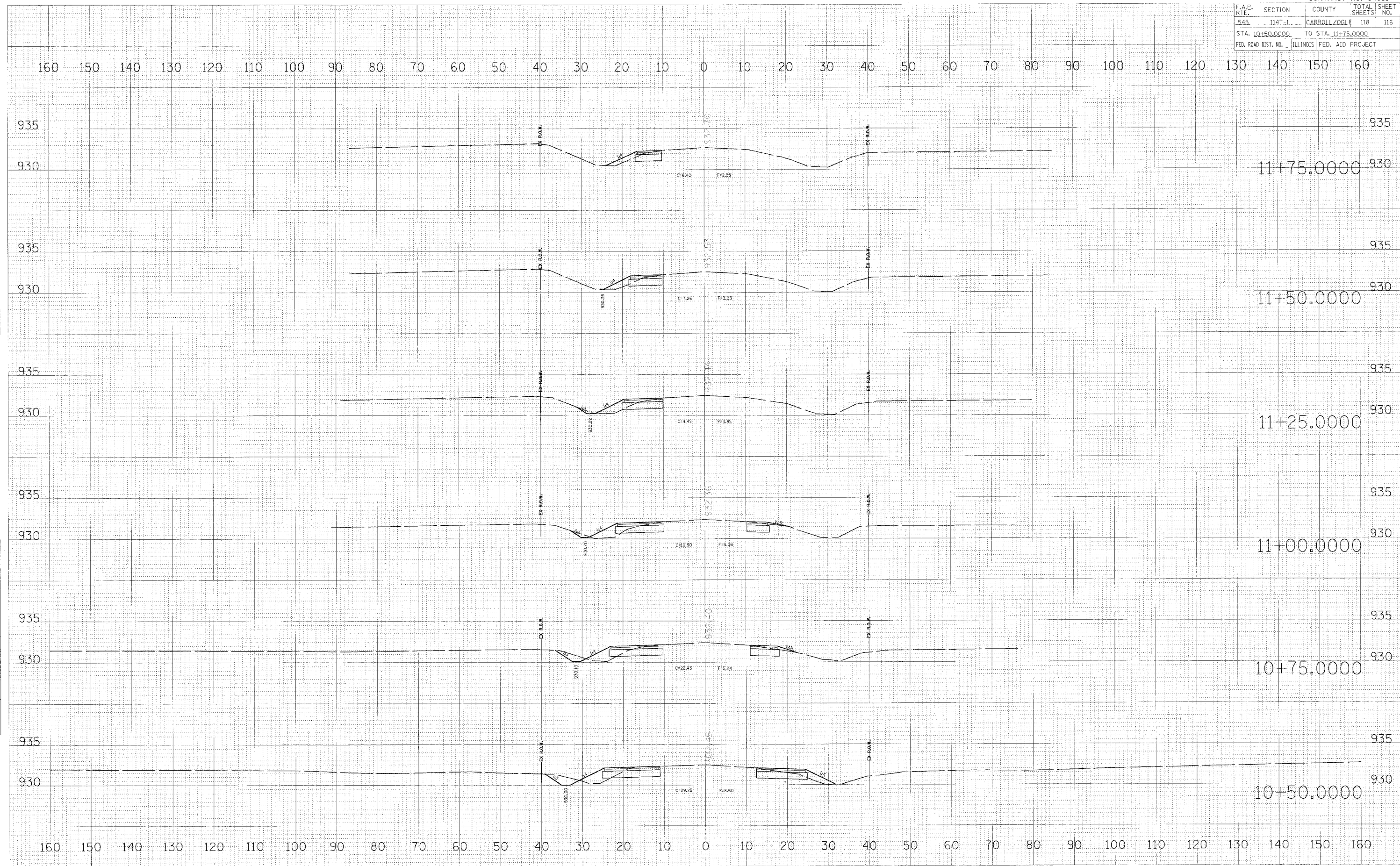
SYMBOL  
NOTE BOOK  
AREA  
CHECKED



211+50.0000

211+25.0000

CONTRACT NO. 64C31			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.
545	1141-L	CARBOLL/OGLE	118 116
STA. 10+50.0000		TO STA. 11+75.0000	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



DATE: 11/11/11  
 PLOTTER: HPGL  
 PLOT SCALE: 1"=40'

DATE: 11/11/11  
 PLOTTER: HPGL  
 PLOT SCALE: 1"=40'

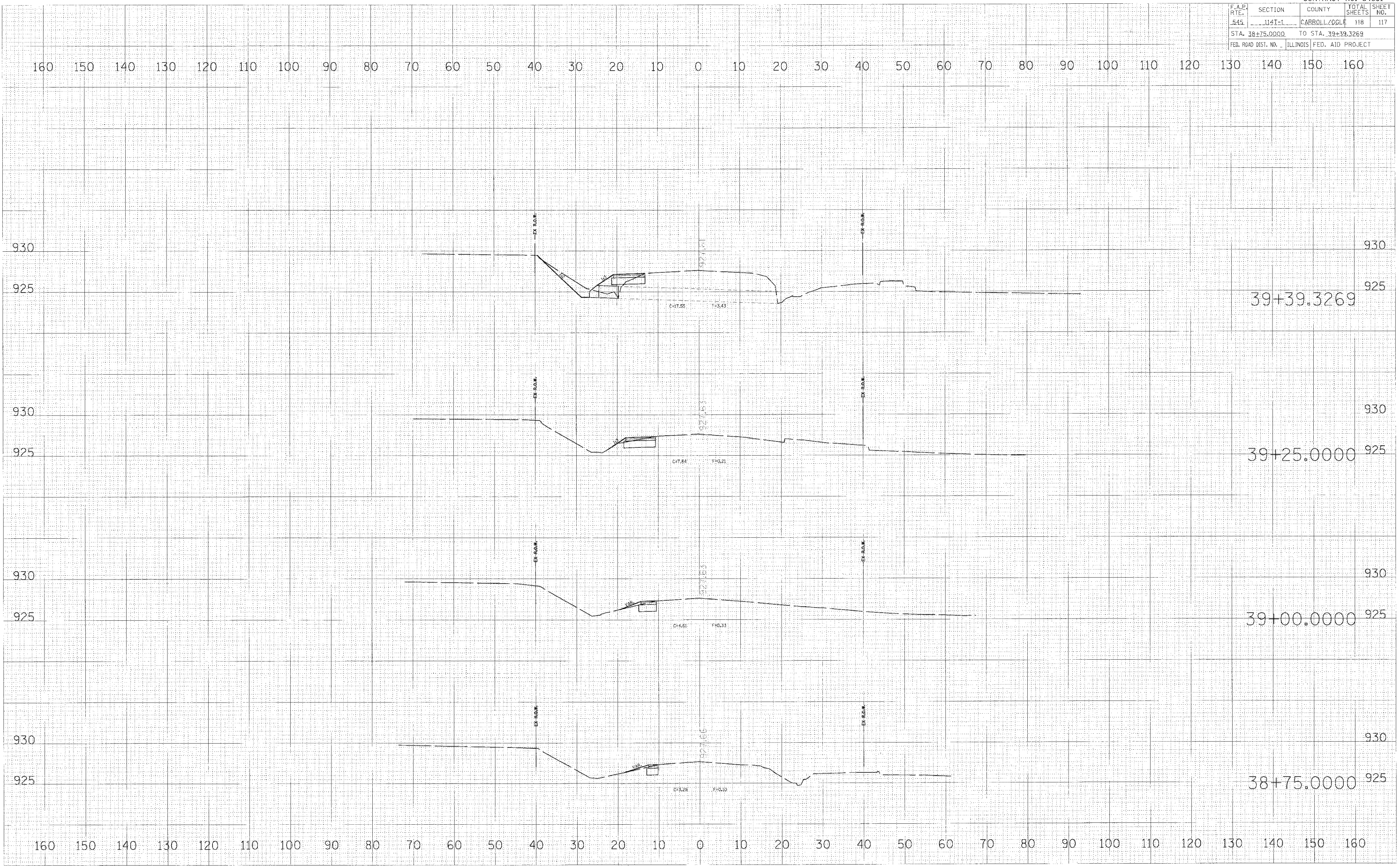
DATE: 11/11/11  
 PLOTTER: HPGL  
 PLOT SCALE: 1"=40'

CONTRACT NO. 64C31				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545	1141-1	CARROLL/OGLE	118	117
STA. 38+75.0000		TO STA. 39+39.3269		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SURVEY PLOTTED  
 RECALCULATE  
 MEAS. CHECKED  
 NO.

SURVEY PLOTTED  
 RECALCULATE  
 MEAS. CHECKED  
 NO.

PLOT DATE = 04/25/88  
 FILE NAME = 041117  
 USER NAME = 041117



CONTRACT NO. 64C31			
F.A.P. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
545 141-1	CABROLL/OGLE	118	118
STA. 39+50.0000 TO STA. 39+50.0000			
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

SURVEY NO. 141-1  
 DATE 10/1/81  
 BY J. J. GIBSON

SURVEY NO. 141-1  
 DATE 10/1/81  
 BY J. J. GIBSON

PLOT DATE = 8/1/81  
 FILE NAME = 141-1  
 PLOT SCALE = 1"=40'  
 USER NAME = JGIBSON

