

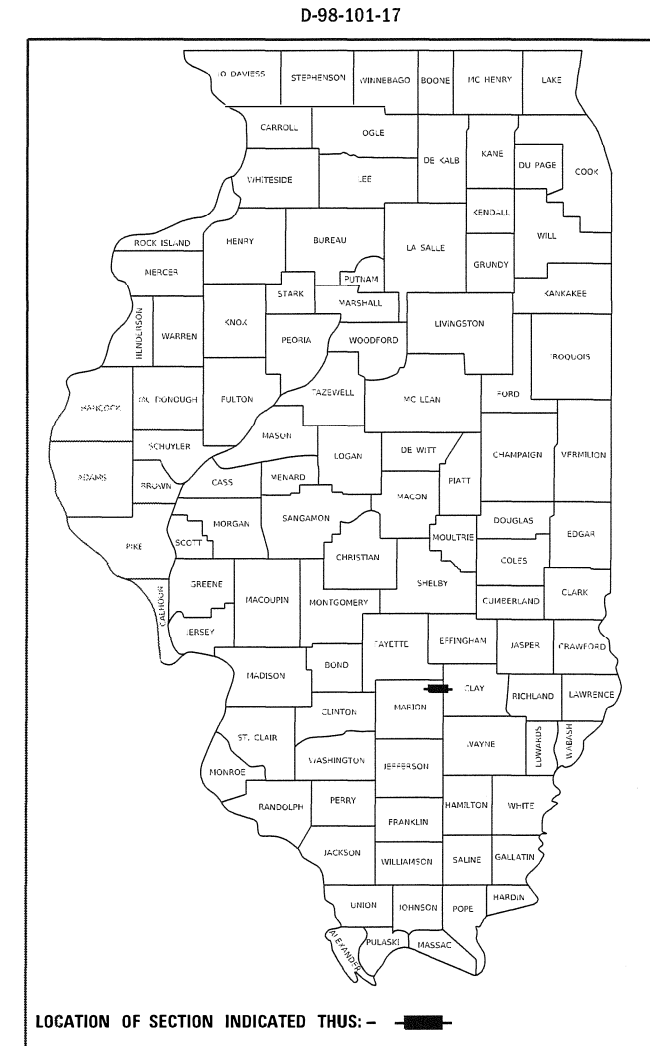
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	33	1
		ILLINOIS	CONTRACT NO. 76K67	

# PROPOSED HIGHWAY PLANS

FAS ROUTE 2703 (KINLOU ROAD)  
SECTION 15BR-1  
PROJECT STP-PEDC(545)  
BRIDGE REPLACEMENT  
MARION COUNTY

C-98-327-18



DESIGN DESIGNATION  
850(20) MAJOR COLLECTOR 0.50(FD-20)

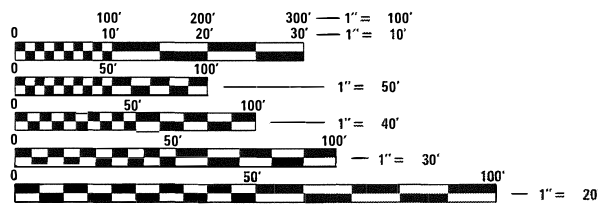
STRUCTURE REPLACEMENT  
STA 435 + 45.50  
EX SN 061-0067  
PR SN 061-2027

BEGIN PROJECT  
STA 432 + 80

END PROJECT  
STA 437 + 81

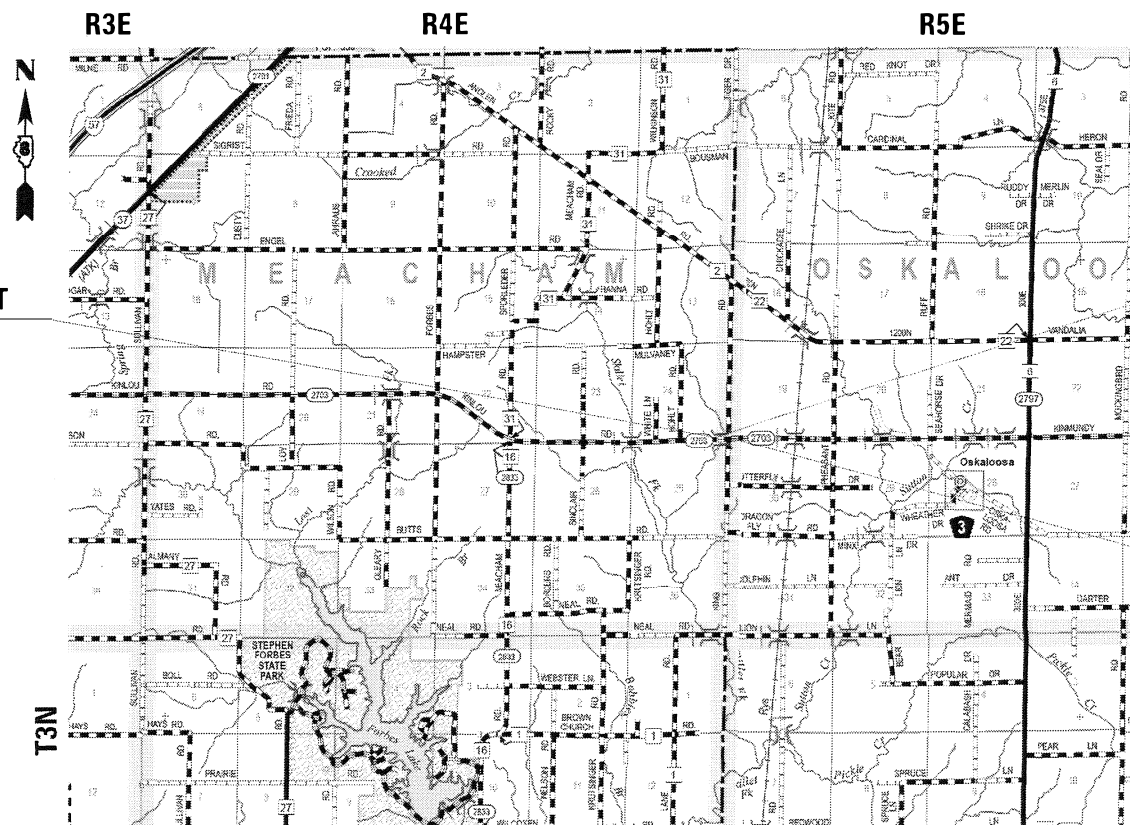
FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR (NON-URBAN)

2019 ADT:	650
2039 ADT:	850
PV%	87.7%
MU%	7.0%
SU%	5.3%



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 EXCAVATORS  
1-800-892-0123  
OR 811



LOCATION MAP



GROSS LENGTH = 501.00 FT. = 0.095 MILE  
NET LENGTH = 501.00 FT. = 0.095 MILE



*David M. Ogle* 7/23/20  
DAVID M. OGLE, P.E.  
LICENSED PROFESSIONAL ENGINEER  
ILLINOIS NO. 062-058384  
EXPIRES: 11-30-2021

PROJECT ENGINEER: TIFFANY BRASE (618)346-3175  
PROJECT MANAGER: DREW RUHOLL (618)346-3454

CONTRACT NO. 76K67

**VOLKERT**  
VOLKERT, INC.  
1500 EASTPORT PLAZA DRIVE  
COLLINGSVILLE, IL 62232  
Phone: 618-345-8918 Fax: 618-345-9018  
Design Firm Registration Number 184-004027-0014

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED Aug. 4 2020  
*Keith Roberts*  
REGIONAL ENGINEER

October 2, 2020  
*Scott A. Etk*  
ENGINEER OF DESIGN AND ENVIRONMENT

October 2, 2020  
*James J. ...*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

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## HIGHWAY STANDARDS

- 000001-07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 482001-02 HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
- 515001-04 NAME PLATE FOR BRIDGES
- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 630101-10 STRONG POST GUARDRAIL ATTACHED TO CULVERT
- 630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 666001-01 RIGHT-OF-WAY MARKERS
- 667101-02 PERMANENT SURVEY MARKERS
- 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
- 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 725001-01 OBJECT AND TERMINAL MARKERS
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
- BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL

## GENERAL NOTES

1. UTILITIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

\*NORTHEAST MARION COUNTY WATER COMPANY  
 \*TRI-COUNTY ELECTRIC COOPERATIVE, INC.  
 \*WABASH COMMUNICATIONS COOPERATIVE, INC.

MEMBERS OF J.U.L.I.E. (800)-892-0123 ARE INDICATED BY \*. NON J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
3. THE USE OF VIBRATORY ROLLERS WILL NOT BE PERMITTED FOR THIS PROJECT. THIS DOES NOT RELIEVE THE CONTRACTOR OF DENSITY REQUIREMENTS FOR THE CONSTRUCTION OF THE BITUMINOUS PAVEMENTS AS SPECIFIED IN SECTIONS 406 & 407 OF THE STANDARD SPECIFICATIONS.
4. IF THE CONTRACTOR, FOR HIS CONSTRUCTION ACTIVITY, REMOVES TREES WITHIN THE RIGHT-OF-WAY LIMITS WHICH ARE NOT DESIGNATED ON THE PLANS FOR REMOVAL, I.E. IN ORDER TO GAIN ACCESS TO THE PROJECT SITE; IT WILL BE HIS RESPONSIBILITY TO REPLACE THE TREES AT A 1:1 RATIO. THE TRESS WILL BE REPLACED WITH A 1 GALLON NATIVE ILLINOIS TREE SPECIES AND SHALL BE APPROVED BY THE ENGINEER. THE TREE REMOVAL AND TREE REPLACEMENT WILL BE AT THE CONTRACTOR'S EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
5. ALL TEMPORARY PAVEMENT MARKINGS WILL BE PLACED IN SUCH A MANNER SO AS NOT TO INTERFERE WITH THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
6. THE DISTRICT'S NUCLEAR DENSITY SUPERVISOR SHALL BE CONTACTED UPON COMPLETION OF THE SUBGRADE AND PRIOR TO THE SUBBASE GRANULAR PLACEMENT TO DETERMINE THE NECESSITY OF THE SUBGRADE IMPROVEMENTS.
7. THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING AND/OR INTELLIGENT TRANSPORTATION SYSTEMS (I.T.S.) UTILITIES WITHIN THE PROJECT LIMITS. IF HIGHWAY LIGHTING AND/OR I.T.S. EXISTS WITHIN THE PROJECT LIMITS, AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
8. TWO (2) CHANGEABLE MESSAGE BOARDS SHALL BE REQUIRED FOR THIS PROJECT. THEY SHALL BE PLACED TWO (2) WEEKS PRIOR TO ANY LANE CLOSURE. THE CHANGEABLE MESSAGE BOARDS SHALL BE PLACED ALONG KINLOU ROAD AS DIRECTED BY THE ENGINEER.
9. THE CONTRACTOR SHALL PROVIDE POSITIVE AND ADEQUATE DRAINAGE AT ALL TIMES.
10. ALL ELEVATIONS REFER TO THE NAVD 88 DATUM.
11. ONLY SHORT-TERM PAVEMENT MARKING REMOVAL FROM THE FINAL SURFACE SHALL BE PAID FOR AS "SHORT-TERM PAVEMENT MARKING REMOVAL."
12. THE DISTRICT LAND ACQUISITION SECTION SHALL BE CONTACTED IF DIFFERENCES ARE IDENTIFIED BETWEEN ANY PROPOSED RIGHT-OF-WAY OR EASEMENT SHOWN ON THE ENGINEERING PLAN SHEETS AS COMPARED TO THE SAME PROPOSED RIGHT-OF-WAY OR EASEMENT SHOWN ON THE PLAT OF HIGHWAYS. QUESTIONS OR CONCERNS REGARDING THESE ITEMS SHOULD BE DIRECTED TO CLINT MARSHALL AT (618) 346-3124.
13. ALL EXISTING AND PROPOSED RIGHT-OF-WAY LINES AND PROPERTY LINES SHOWN ON THE ROADWAY PLAN SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS A MEANS TO ESTABLISH OWNERSHIP. IN ALL MATTERS RELATING TO RIGHT-OF-WAY, THE PLAT OF HIGHWAYS SHALL BE THE CONTROLLING DOCUMENT.
14. IF ANY SECTION OR SUB-SECTION MONUMENT (I.E. STONE, BRASS PLUG, ALUMINUM DISK, IRON PIPE OR PIN, MAG NAIL, CROSS, ETC.) IS ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENT IS REMOVED OR RESURFACED OVER. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE THE MONUMENT IN PLACE UNTIL AN ILLINOIS PROFESSIONAL LAND SURVEYOR WITH A DEPARTMENT PREQUALIFICATION IN "SPECIAL SERVICES - SURVEYING" HAS REFERENCED ITS LOCATION.
15. ANY MONUMENT OR PROPERTY CORNER TO BE SET SHALL BE SET BY AN ILLINOIS PROFESSIONAL LAND SURVEYOR WITH A DEPARTMENT PREQUALIFICATION IN "SPECIAL SERVICES - SURVEYING".
16. THE RIGHT-OF-WAY OR PROPERTY CORNER IS MONUMENTED WITH A 5/8" IRON ROD, THIRTY INCHES (30") IN LENGTH, WITH AN IDOT ALUMINUM CAP THAT SHALL NOT BE REMOVED, DAMAGED OR DISTURBED WHEN SETTING THE RIGHT-OF-WAY MARKER. THE RIGHT-OF-WAY MARKER SHALL BE INSTALLED SO THAT THE BACK OF THE POST IS TWELVE INCHES (12") INSIDE THE RIGHT-OF-WAY BOUNDARY. THE RIGHT-OF-WAY MARKER SHALL BE A WITNESS TO THE MONUMENT.
17. FACTORS FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

HOT-MIX ASPHALT SURFACE COURSE	0.056 TON/SQ YD/IN
HOT-MIX ASPHALT BINDER COURSE	0.056 TON/SQ YD/IN
SUBBASE GRANULAR	2.05 TON/CU YD
SEEDING, CLASS 2A	200 LB/ACRE
TEMPORARY EROSION CONTROL SEEDING	100 LB/ACRE
NITROGEN FERTILIZER NUTRIENT	90 LB/ACRE
PHOSPHORUS FERTILIZER NUTRIENT	90 LB/ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LB/ACRE
MULCH	2 TON/ACRE

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE	HMA SC MIX "C" N70	HMA BC IL-19.0, N70
AC/PG	64-22	64-22
RAP % (MAX)	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION (GRADATION)	IL 9.5	IL 19.0
FRICTION AGG	MIXTURE "C"	MIXTURE "B"
QUALITY MGMT PROGRAM	QC/QA	QC/QA

PLAN QUANTITIES FOR BITUMINOUS CONCRETE SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LBS/SQ YD/IN (59.8 KG/SQ M/25 MM THICKNESS)

## COMMITMENTS

NO TREE CLEARING BETWEEN APRIL 1ST AND SEPTEMBER 30TH OF ANY YEAR DUE TO THE INDIANA BAT AND THE NORTHERN LONG-EARED BAT.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, HIGHWAY STANDARDS,  
GENERAL NOTES AND COMMITMENTS**

SCALE: N/A SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	33	2
			CONTRACT NO. 76K67	
		ILLINOIS	FED. AID PROJECT	

80% FED  
20% STATE

				CONSTR. CODE	
				RURAL	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BOX CULVERT	
				0010	061-2027
20100500	TREE REMOVAL, ACRES	ACRE	0.25	0.25	
20200100	EARTH EXCAVATION	CU YD	538	538	
20400800	FURNISHED EXCAVATION	CU YD	820	820	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	105	105	
25000210	SEEDING, CLASS 2A	ACRE	1	1	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	90	90	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	90	90	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	90	90	
25100115	MULCH, METHOD 2	ACRE	2	2	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	81	81	
28000305	TEMPORARY DITCH CHECKS	FOOT	96	96	
28000400	PERIMETER EROSION BARRIER	FOOT	1086	1086	
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	2936	2936	
28100107	STONE RIPRAP, CLASS A4	SQ YD	410	410	

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REV. - MS



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE: N/A	SHEET 1 OF 4 SHEETS	STA. N/A	TO STA. N/A
<b>KINLOU ROAD OVER TRIBUTARY TO SKILLET FORK CREEK</b>			

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	33	3
				CONTRACT NO. 76K67
ILLINOIS FED. AID PROJECT				

80% FED  
20% STATE

CONSTR. CODE

RURAL

BOX CULVERT

0010

061-2027

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
28100109	STONE RIPRAP, CLASS A5	SQ YD	261	261
28200200	FILTER FABRIC	SQ YD	671	671
31100100	SUBBASE GRANULAR MATERIAL, TYPE A	TON	565	565
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	3008	3008
40700100	BITUMINOUS MATERIALS (TACK COAT)	POUND	1204	1204
40701841	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 8"	SQ YD	1338	1338
44000100	PAVEMENT REMOVAL	SQ YD	1157	1157
48100700	AGGREGATE SHOULDERS, TYPE A 8"	SQ YD	208	208
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	56	56
50800105	REINFORCEMENT BARS	POUND	26650	26650
51500100	NAME PLATES	EACH	1	1
54003000	CONCRETE BOX CULVERTS	CU YD	127	127
54011210	PRECAST CONCRETE BOX CULVERTS 12' X 10'	FOOT	52	52

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS
2703	15BR-1	MARION	33
			SHEET NO. 4
CONTRACT NO. 76K67			

SCALE: N/A SHEET 2 OF 4 SHEETS STA. N/A TO STA. N/A

ILLINOIS	FED. AID PROJECT
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REV. - MS

80% FED  
20% STATE

CONSTR. CODE	
RURAL	
BOX CULVERT	
0010	
061-2027	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	119	119
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	392	392
* 63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	59	59
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	20	20
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3
67100100	MOBILIZATION	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	150	150
70300100	SHORT TERM PAVEMENT MARKING	FOOT	100	100
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	33	33
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1127	1127
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1127	1127

\* SPECIALTY ITEM

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	DATE -	REVISIED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**  
**KINLOU ROAD OVER TRIBUTARY TO SKILLET FORK CREEK**

SCALE: N/A    SHEET 3 OF 4 SHEETS    STA. N/A    TO STA. N/A

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	33	5
			CONTRACT NO. 76K67	
ILLINOIS FED. AID PROJECT				

REV. - MS

80% FED  
20% STATE

CONSTR. CODE
RURAL
BOX CULVERT
0010
061-2027

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	7	7
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	10	10
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	119	119
X6660445	RIGHT OF WAY AND PROPERTY CORNERS	EACH	5	5
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	376	376
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	1006	1006
* Z0054517	ROCK FILL - FOUNDATION	TON	106	106
Ø Z0076600	TRAINEES	HOUR	500	500
Ø Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500

\* SPECIALTY ITEM Ø 0042

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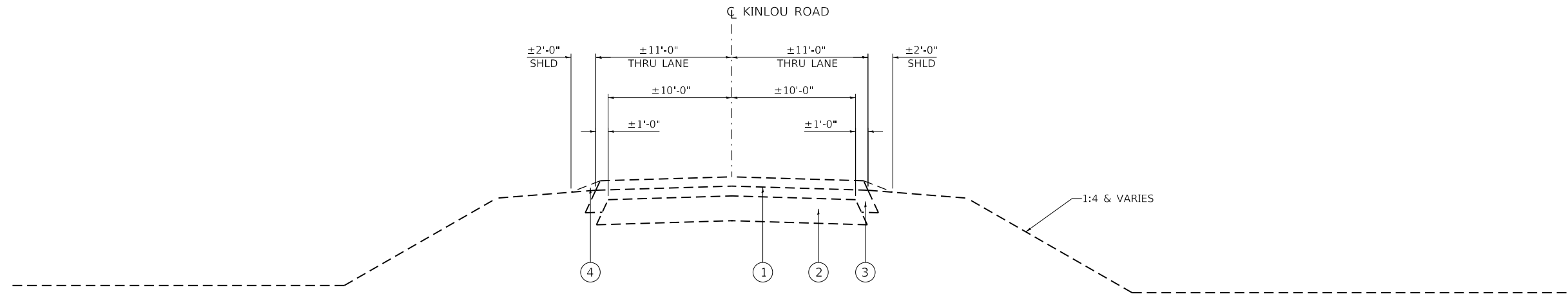
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES	
<b>KINLOU ROAD OVER TRIBUTARY TO SKILLET FORK CREEK</b>	
SCALE: N/A	SHEET 4 OF 4 SHEETS STA. N/A TO STA. N/A

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	33	6
			CONTRACT NO. 76K67	
ILLINOIS FED. AID PROJECT				

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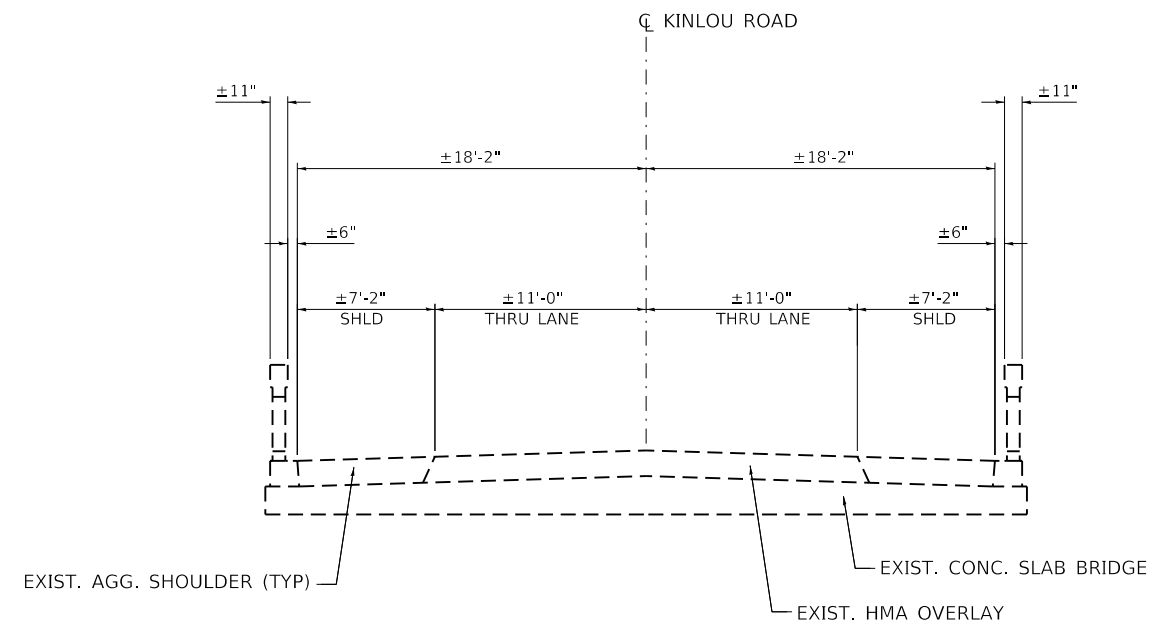


**EXISTING TYPICAL SECTION**

STA. 432+80.0 TO STA. 435+34.5  
 STA. 435+56.5 TO STA. 437+81.0

**LEGEND**

- ① EXISTING HMA SURFACE COURSE, 6-1/4"
- ② EXISTING CRUSHED STONE BASE
- ③ EXISTING BITUMINOUS CONCRETE BASE COURSE WIDENING, 6"
- ④ EXISTING AGGREGATE WEDGE SHOULDER, TYPE B
- ⑤ PROPOSED TACK COAT
- ⑥ PROPOSED HMA SURFACE COURSE, 2"
- ⑦ PROPOSED HMA BINDER COURSE, 6"
- ⑧ PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
- ⑨ PROPOSED SUBBASE GRANULAR, VARIES FROM 0 TO 10" AT BOX
- ⑩ PROPOSED 4" PAVEMENT STRIPING
- ⑪ PROPOSED AGGREGATE SHOULDER, 8"
- ⑫ PROPOSED GUARDRAIL
- ⑬ PROPOSED EARTH SHOULDER
- ⑭ PROPOSED LONGITUDINAL JOINT SEALANT



**EXISTING TYPICAL SECTION (THRU STRUCTURE)**

STA. 435+34.5 TO STA. 435+56.5

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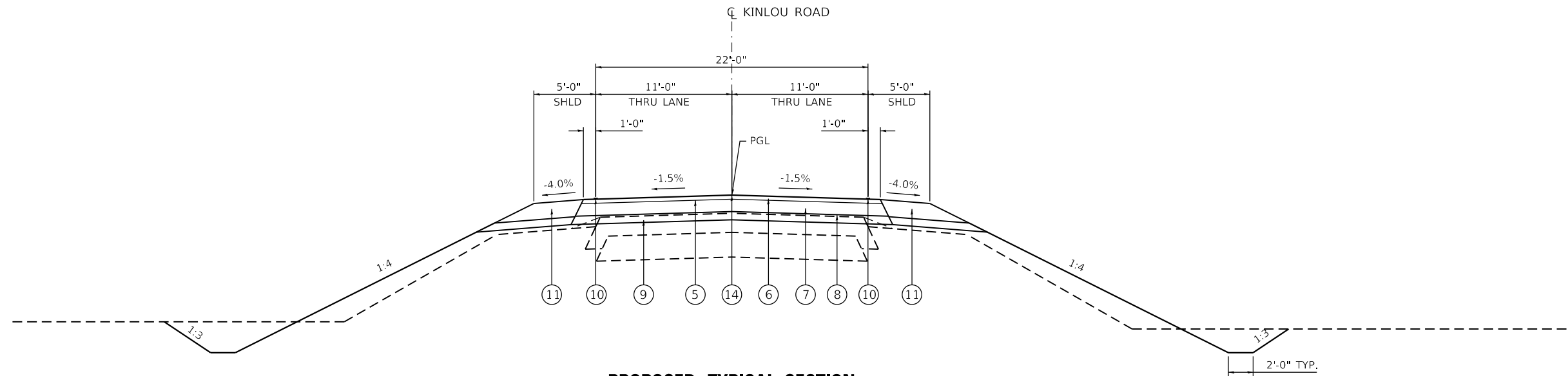


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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS	
KINLOU ROAD OVER TRIBUTARY TO SKILLET FORK CREEK	
SCALE: N/A	SHEET 1 OF 3 SHEETS
STA. N/A	TO STA. N/A

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	33	7
CONTRACT NO. 76K67				
ILLINOIS FED. AID PROJECT				

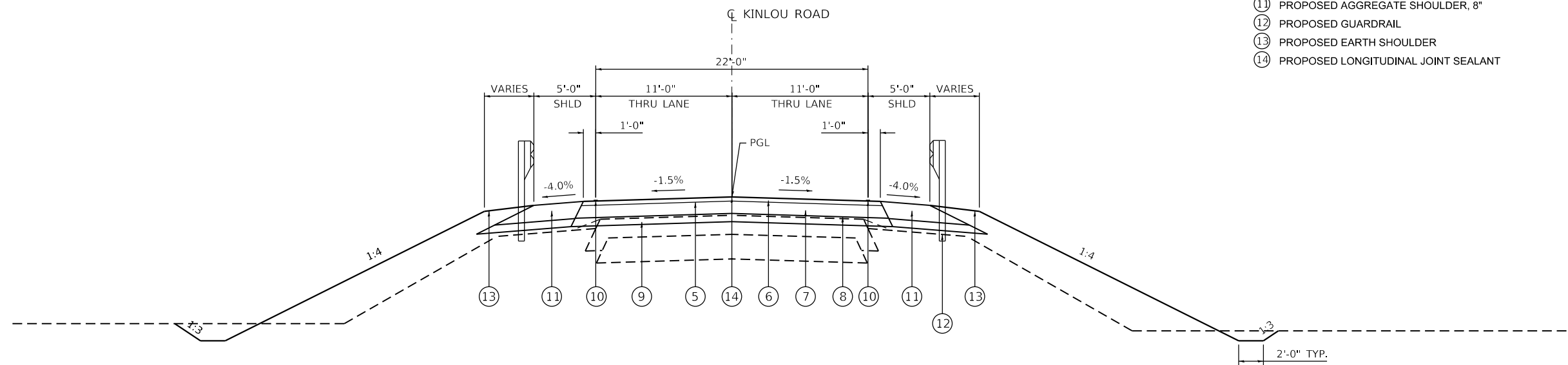


**PROPOSED TYPICAL SECTION**

STA. 432+80.0 TO STA. 433+39.7  
 STA. 437+51.5 TO STA. 437+81.0

**LEGEND**

- ① EXISTING HMA SURFACE COURSE, 6-1/4"
- ② EXISTING CRUSHED STONE BASE
- ③ EXISTING BITUMINOUS CONCRETE BASE COURSE WIDENING, 6"
- ④ EXISTING AGGREGATE WEDGE SHOULDER, TYPE B
- ⑤ PROPOSED TACK COAT
- ⑥ PROPOSED HMA SURFACE COURSE, 2"
- ⑦ PROPOSED HMA BINDER COURSE, 6"
- ⑧ PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
- ⑨ PROPOSED SUBBASE GRANULAR, VARIES FROM 0 TO 10" AT BOX
- ⑩ PROPOSED 4" PAVEMENT STRIPING
- ⑪ PROPOSED AGGREGATE SHOULDER, 8"
- ⑫ PROPOSED GUARDRAIL
- ⑬ PROPOSED EARTH SHOULDER
- ⑭ PROPOSED LONGITUDINAL JOINT SEALANT



**PROPOSED TYPICAL SECTION**

STA. 433+39.7 TO STA. 434+50.0  
 STA. 436+39.0 TO STA. 437+51.5

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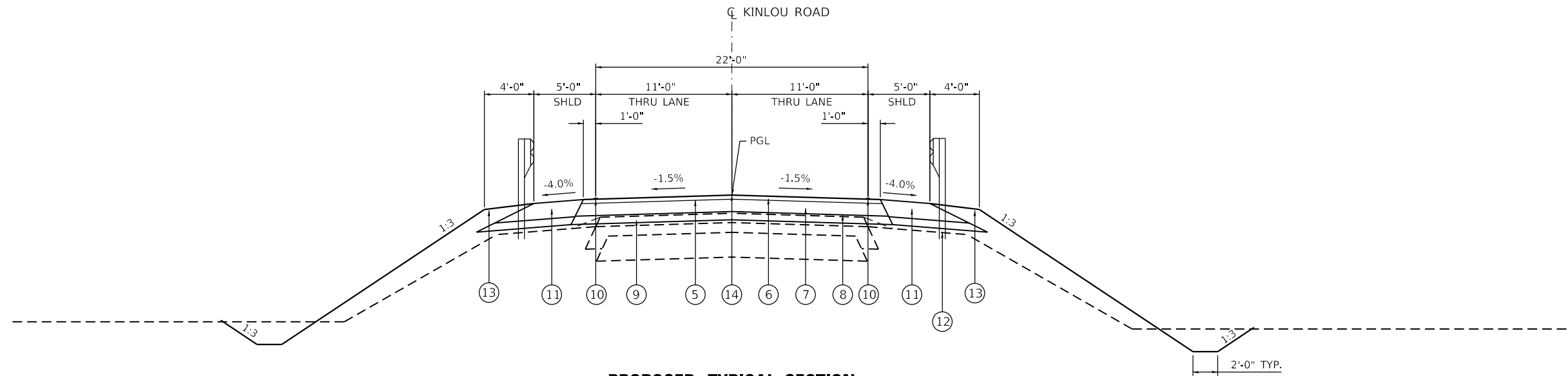
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS  
 KINLOU ROAD OVER TRIBUTARY TO SKILLET FORK CREEK**

SCALE: N/A SHEET 2 OF 3 SHEETS STA. N/A TO STA. N/A

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	33	8
CONTRACT NO. 76K67				
ILLINOIS FED. AID PROJECT				



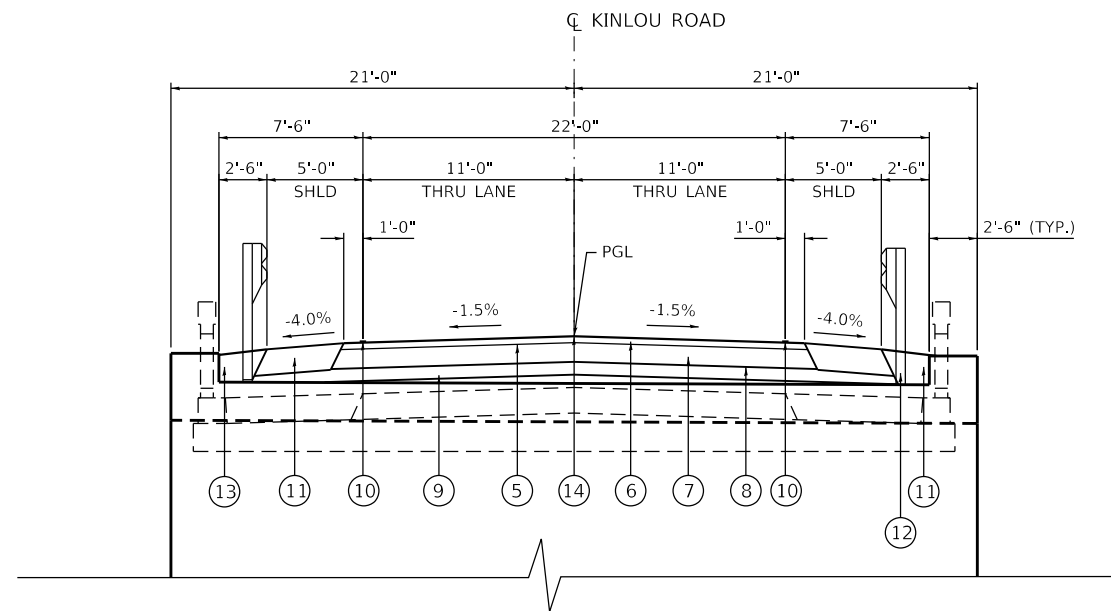


**PROPOSED TYPICAL SECTION**

STA. 434+50.0 TO STA. 435+31.4  
 STA. 435+59.6 TO STA. 436+39.0

**LEGEND**

- ① EXISTING HMA SURFACE COURSE, 6-1/4"
- ② EXISTING CRUSHED STONE BASE
- ③ EXISTING BITUMINOUS CONCRETE BASE COURSE WIDENING, 6"
- ④ EXISTING AGGREGATE WEDGE SHOULDER, TYPE B
- ⑤ PROPOSED TACK COAT
- ⑥ PROPOSED HMA SURFACE COURSE, 2"
- ⑦ PROPOSED HMA BINDER COURSE, 6"
- ⑧ PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
- ⑨ PROPOSED SUBBASE GRANULAR, VARIES FROM 0 TO 10" AT BOX
- ⑩ PROPOSED 4" PAVEMENT STRIPING
- ⑪ PROPOSED AGGREGATE SHOULDER, 8"
- ⑫ PROPOSED GUARDRAIL
- ⑬ PROPOSED EARTH SHOULDER
- ⑭ PROPOSED LONGITUDINAL JOINT SEALANT



**PROPOSED TYPICAL SECTION (THRU STRUCTURE)**

STA. 435+31.4 TO 435+59.6

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	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/23/2020	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS  
 KINLOU ROAD OVER TRIBUTARY TO SKILLET FORK CREEK

SCALE: N/A SHEET 3 OF 3 SHEETS STA. N/A TO STA. N/A

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	33	9
CONTRACT NO. 76K67				
ILLINOIS FED. AID PROJECT				

TREE REMOVAL				
LOCATION				TREE REMOVAL, ACRES
STATION	TO	STATION	SIDE	ACRE
435+42.00	TO	435+84.00	LT	0.030
435+31.40	TO	435+59.60	RT	0.072
TOTAL				0.25

EARTHWORK SCHEDULE							
STATION	TO	STATION	EARTH EXCAVATION	SHRINKAGE FACTOR	EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	WASTE (+) OR SHORTAGE (-)
			CU YDS		CU YDS	CU YDS	CU YDS
432+50.00	TO	435+45.50	323.50	25%	242.62	633.14	-390.51
435+45.50	TO	438+00.00	213.82	25%	160.36	584.70	-424.34
SUBTOTAL			537.31		402.99	1217.84	-814.85
ROUNDED							-820.00
EARTH EXCAVATION							538
FURNISHED EXCAVATION							820

REMOVAL SCHEDULE				
LOCATION				PAVEMENT REMOVAL
STATION	TO	STATION	SIDE	SQ YD
432+80.00	TO	435+31.36	LT/RT	615
435+59.63	TO	437+81.00	LT/RT	542
TOTAL				1157

SEEDING								
LOCATION				SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH, METHOD 2
STATION	TO	STATION	SIDE	ACRE	POUND	POUND	POUND	TON
432+80.00	TO	437+81.00	LT	0.50	45	45	45	1.00
432+80.00	TO	437+81.00	RT	0.50	45	45	45	1.00
TOTAL				1	90	90	90	2.00

EROSION CONTROL							
LOCATION				TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	TEMPORARY EROSION CONTROL BLANKET
STATION	TO	STATION	SIDE	POUND	FOOT	FOOT	SQ YD
432+80	TO	437+81	LT	37.2	36	538	1336
432+80	TO	437+81	RT	44	60	548	1600
SUBTOTAL				81	96	1086	2936
TOTAL				81	96	1086	2936

DRAINAGE						
LOCATION				STONE RIPRAP, CLASS A4	FILTER FABRIC	
STATION	TO	STATION	SIDE	SQ YD	SQ YD	
432+99	TO	434+50	LT	267	267	
432+80	TO	433+71	RT	143	143	
SUBTOTAL				410	410	
TOTAL				410	*410	

\*SEE ADDITIONAL QUANTITY IN STRUCTURE PLANS

MODEL: 610021.DWG  
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USER NAME = default	DESIGNED -	REVISED -
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PLOT DATE = 7/23/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**  
**KINLOU ROAD OVER TRIBUTARY TO SKILLET FORK CREEK**

SCALE: N/A      SHEET 1 OF 2 SHEETS      STA. N/A      TO STA. N/A

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	33	10
			CONTRACT NO. 76K67	
		ILLINOIS FED. AID PROJECT		

PAVEMENT AND SHOULDER SCHEDULE								
LOCATION			SUBBASE GRANULAR MATERIAL, TYPE A	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 8"	AGGREGATE SHOULDERS, TYPE A 8"	LONGITUDINAL JOINT SEALANT
STATION	TO	STATION	TON	POUND	POUND	SQ YD	TON	FOOT
432+80.00	TO	435+31.40	268	1509	604	671	104	504
435+31.40	TO	435+59.60	61	170	68	76	12	58
435+59.60	TO	437+81.00	236	1329	532	591	92	444
TOTAL			565	3008	1204	1338	208	1006

\*QUANTITIES FOR BITUMINOUS MATERIALS (TACK COAT) AND LONGITUDINAL JOINT SEALANT INCLUDE TWO (2) APPLICATIONS.

GUARDRAIL							
LOCATION				STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A
STATION	TO	STATION	SIDE	FOOT	EACH	EACH	EACH
434+80.00	TO	436+55.00	LT/RT	196	2	2	5
434+36.20	TO	436+11.20	LT/RT	196	2	2	5
SUBTOTAL				392	4	4	10
TOTAL				392	4	4	10

NOTE: STRONG POST GUARDRAIL ATTACHED TO STRUCTURE BILLED IN STRUCTURE PLANS.

MISCELLANEOUS		
ENGINEER'S FIELD OFFICE, TYPE A	MOBILIZATION	CONSTRUCTION LAYOUT
CAL MO	L SUM	L SUM
3	1	1

RIGHT-OF-WAY				
STATION	OFFSET	SIDE	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	RIGHT OF WAY AND PROPERTY CORNERS
	FEET	LT/RT	EACH	EACH
431+50.00	40	RT	1	
432+06.32	40	LT	1	1
432+06.32	45	LT	1	1
432+80.00	45	LT	1	1
433+00.00	65	RT	1	
433+50.00	65	LT	1	
434+80.00	65	RT	1	
434+90.91	65	LT	1	
435+25.00	100	RT	1	
435+30.00	85	LT	1	
435+75.00	100	RT	1	
435+80.00	85	LT	1	
436+30.00	65	RT	1	
436+30.00	65	LT	1	
437+30.00	65	RT	1	
437+30.00	65	LT	1	
438+74.14	40	RT	1	1
438+77.97	40	LT	1	1
438+97.67	65	RT	1	
439+04.37	65	LT	1	
TOTAL			20	5

PAVEMENT MARKING									
LOCATION				SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING - LINE 4"	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	RAISED REFLECTIVE PAVEMENT MARKER	TEMPORARY PAVEMENT MARKING REMOVAL
STATION	TO	STATION	SIDE	FOOT	SQ FT	FOOT	FOOT	EACH	SQ FT
432+80.00	TO	437+81.00	LT	24	8	501	501		
432+80.00	TO	437+81.00	RT	24	8	501	501		
432+80.00	TO	437+81.00		52	17	125	125	7	376
SUBTOTAL				100	33	1127	1127	7	376
TOTAL				100	33	1127	1127	7	376

TRAFFIC CONTROL		
CHANGEABLE MESSAGE SIGN	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21
CAL DA	L SUM	L SUM
150	1	1

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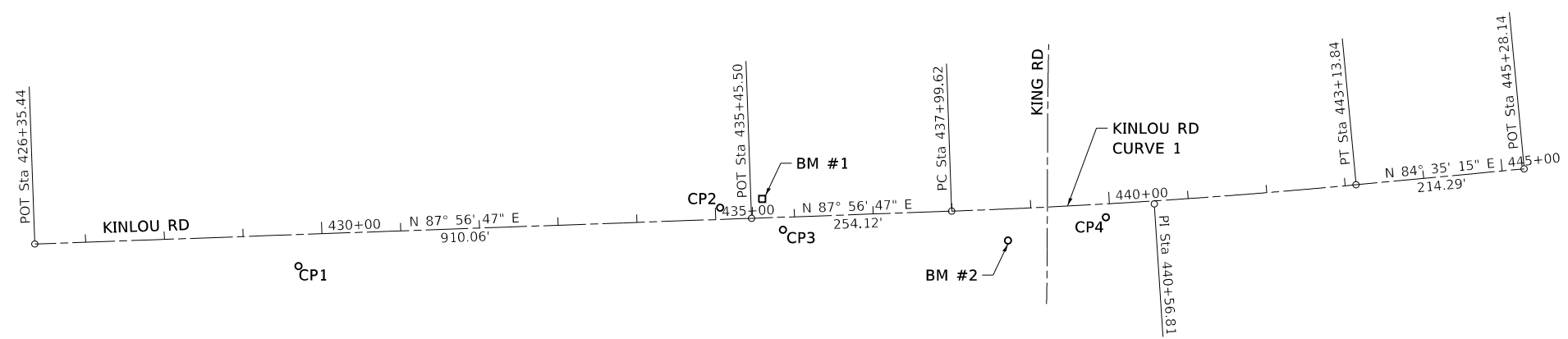


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PLOT DATE = 7/23/2020	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES			
KINLOU ROAD OVER TRIBUTARY TO SKILLET FORK CREEK			
SCALE: N/A	SHEET 2 OF 2 SHEETS	STA. N/A	TO STA. N/A
ILLINOIS FED. AID PROJECT			

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	33	11
CONTRACT NO. 76K67				



KINLOU RD CURVE 1  
 PI STA. = 440+56.81  
 $\Delta$  = 3° 21' 32" (LT)  
 D = 0° 39' 12"  
 R = 8,771.37'  
 T = 257.19'  
 L = 514.22'  
 E = 3.77'  
 e = N/A  
 T.R. = N/A  
 S.E. RUN = N/A  
 P.C. STA. = 437+99.62  
 P.T. STA. = 443+13.84

**BENCHMARK #1**  
 CHISELED "■" FOUND ON TOP OF NE  
 CONCRETE WING WALL FOR SN# 061-0067.  
 MEASURED ELEVATION = 530.43'

**BENCHMARK #2**  
 RAILROAD SPIKE DRIVEN IN THE NORTH SIDE OF  
 A POWER POLE LOCATED ON THE SW CORNER  
 OF THE INTERSECTION KINLOU RD/CO. RD. 2000N  
 AND KING/BEARD RD/CO. RD. 2400N.  
 MEASURED ELEVATION = 535.82'

ALIGNMENT COORDINATES - KINLOU ROAD			
KINLOU RD	STATION	NORTHING	EASTING
POB	426+35.44	765089.5455	879488.2821
POT	435+45.50	765122.1574	880397.7539
PC	437+99.62	765131.2637	880651.7105
PI	440+56.81	765140.4800	880908.7314
PT	443+13.84	765164.7398	880651.7105
POT	445+28.14	765184.9534	881378.1073

CONTROL POINTS			
POINT	NORTHING	EASTING	DESCRIPTION
1	765061.4613	879822.8255	1/2"Ø x 30" Rebar with IDOT cap
2	765135.6997	880357.8555	1/2"Ø x 30" Rebar with IDOT cap
3	765107.5017	880437.633	1/2"Ø x 30" Rebar with IDOT cap
4	765123.5895	880847.3854	1/2"Ø x 30" Rebar with IDOT cap

\*SEE PLAT OF HIGHWAYS FOR 3-POINT ALIGNMENT TIES

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PLOT DATE = 7/23/2020	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ALIGNMENT, TIES AND BENCHMARKS**  
**KINLOU ROAD OVER TRIBUTARY TO SKILLET FORK CREEK**

SCALE: 1"=100'    SHEET 1 OF 1 SHEETS    STA. 426+35.44    TO STA. 445+28.14

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	33	12
CONTRACT NO. 76K67				
ILLINOIS FED. AID PROJECT				

N/F  
CHRISTOPHER A. YATES AND HEATHER E. YATES,  
HUSBAND AND WIFE, IN JOINT TENANCY  
04-24-400-005  
WTG# 18-2018MO-691.0  
DOC #2016R03013

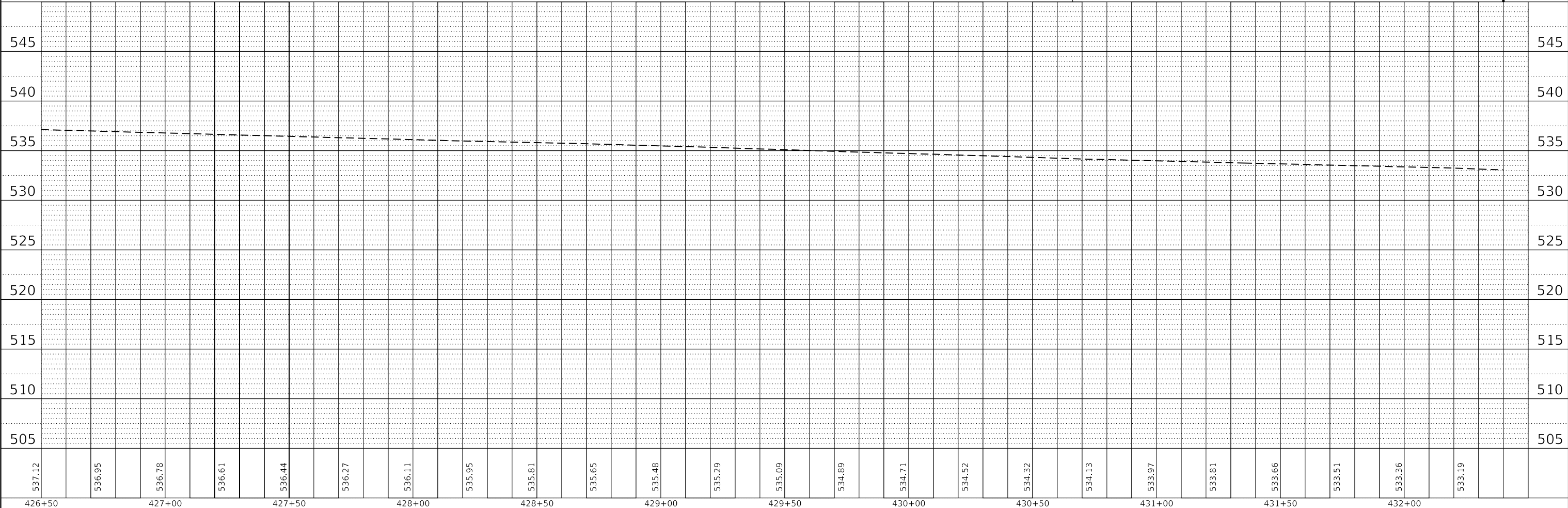
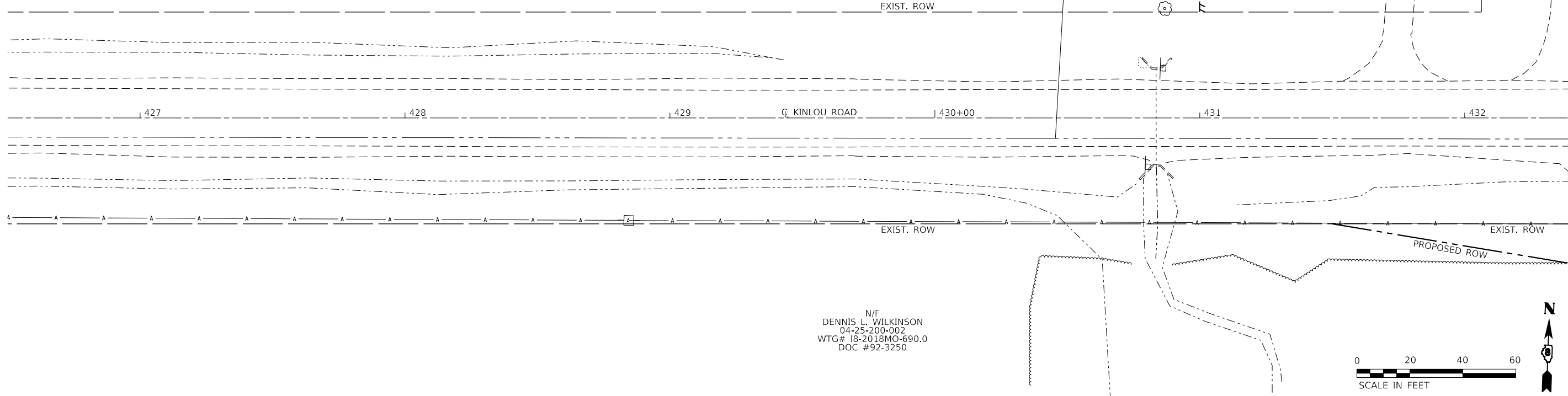
N/F  
CHARLES R. GILLETT AND MARLA J. GILLETT,  
HUSBAND AND WIFE, IN JOINT TENANCY  
04-24-400-007  
WTG# 18-2018MO-689.0  
DOC #2016R03429

N/F  
DENNIS L. WILKINSON  
04-25-200-002  
WTG# 18-2018MO-690.0  
DOC #92-3250

PLAN	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	CADD FILE NAME		

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426+50	427+00	427+50	428+00	428+50	429+00	429+50	430+00	430+50	431+00	431+50	432+00												



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	DRAWN -	REVISED -
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PLOT DATE = 7/23/2020	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

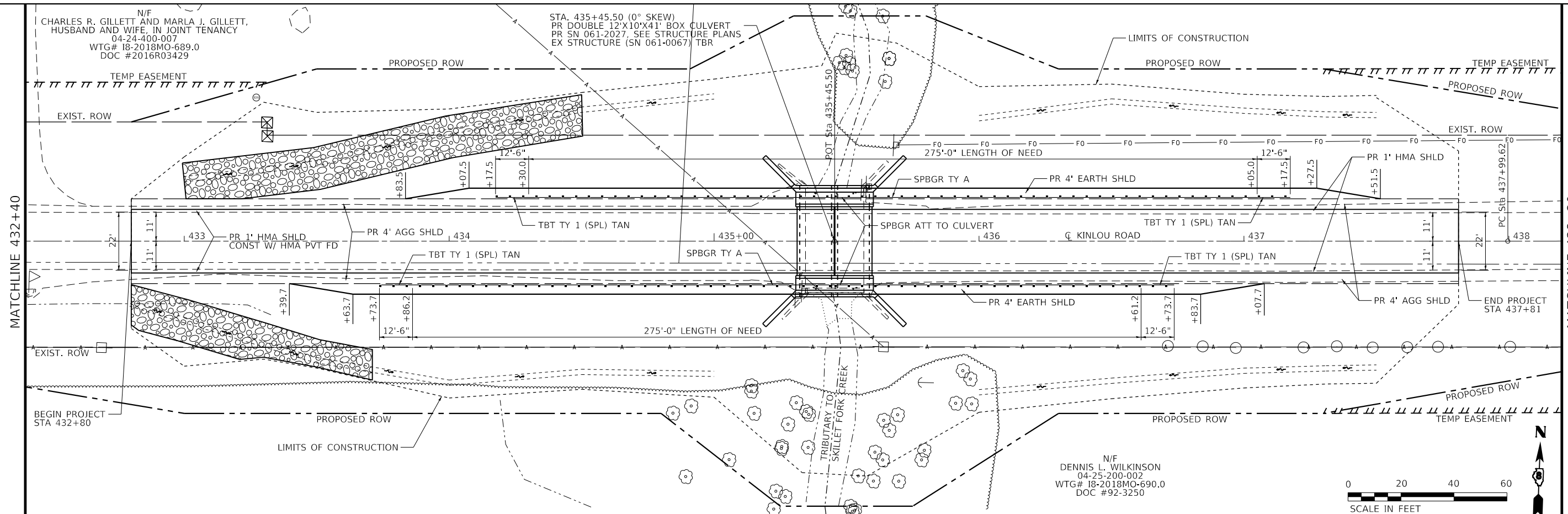
PLAN AND PROFILE  
KINLOU ROAD OVER TRIBUTARY TO SKILLET FORK CREEK  
SCALE: 1"=20'  
SHEET 1 OF 3 SHEETS  
STA. 426+50 TO STA. 432+40

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	33	13
CONTRACT NO. 76K67				
ILLINOIS		FED. AID PROJECT		

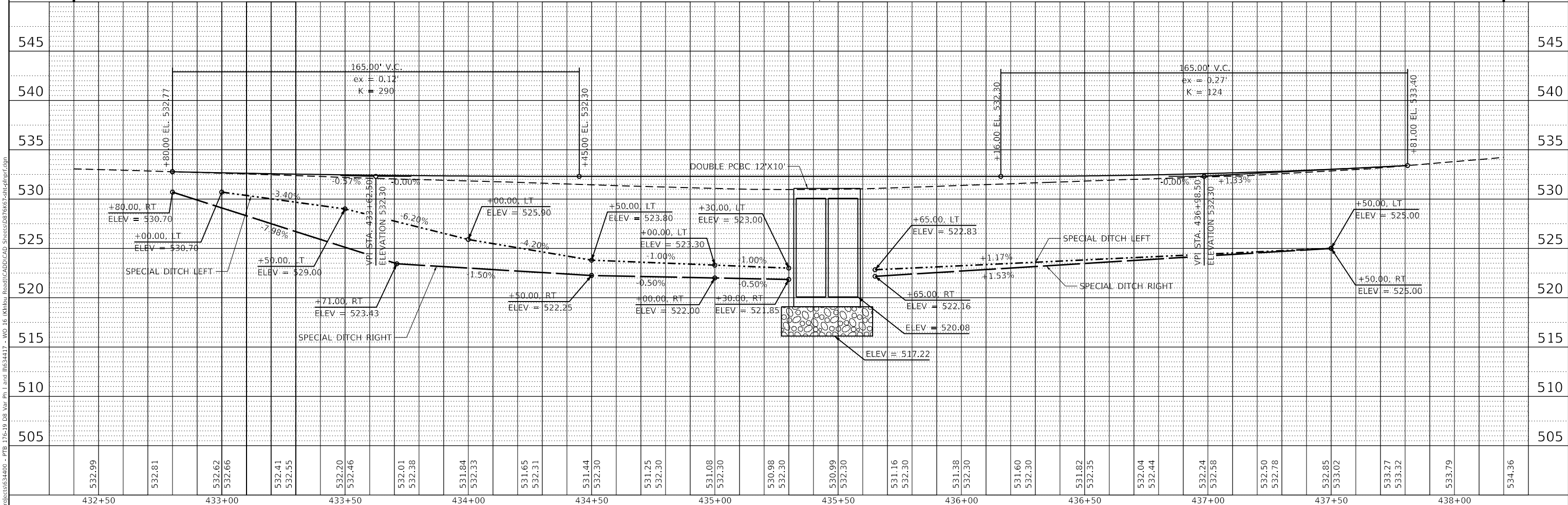
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BY	
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DATE	
BY	
PROFILE	SURVEYED
	PLOTTED
	GRADES CHECKED
	ALIGNMENT CHECKED
	STRUCTURE NOTATIONS CHECKED
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	NO.

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N/F  
 DENNIS L. WILKINSON  
 04-25-200-002  
 WTG# 18-2018MO-690.0  
 DOC #92-3250



545	545										
540	540										
535	535										
530	530										
525	525										
520	520										
515	515										
510	510										
505	505										
432+50	433+00	433+50	434+00	434+50	435+00	435+50	436+00	436+50	437+00	437+50	438+00



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PLOT DATE = 9/24/2020	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

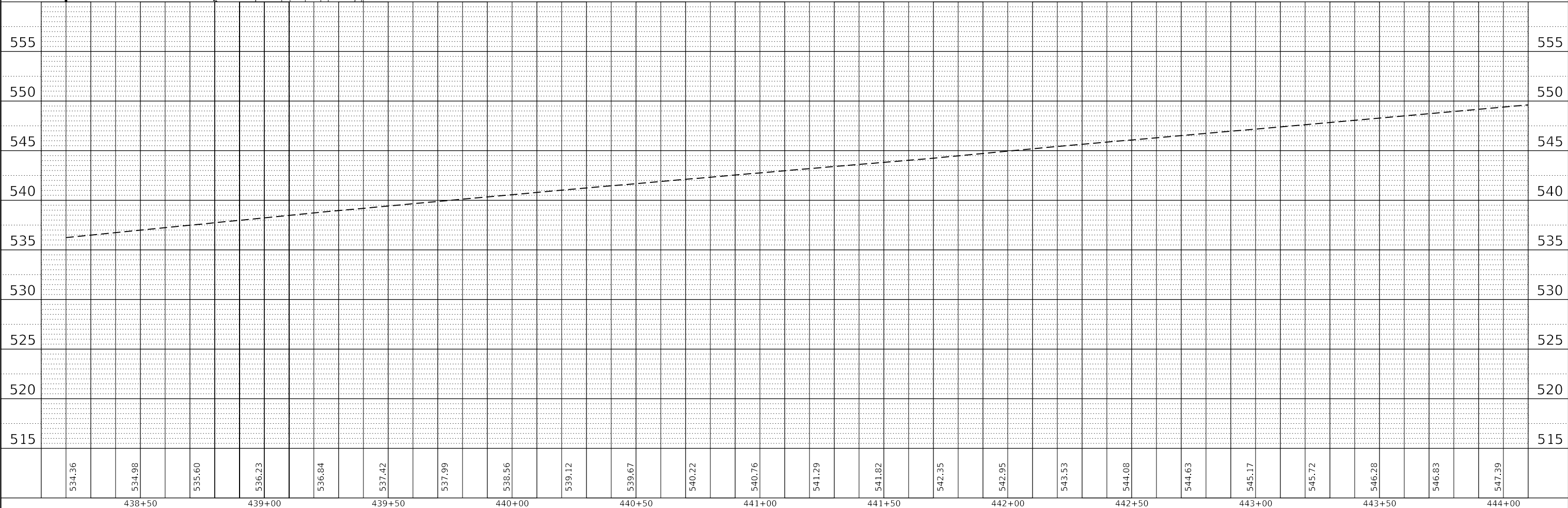
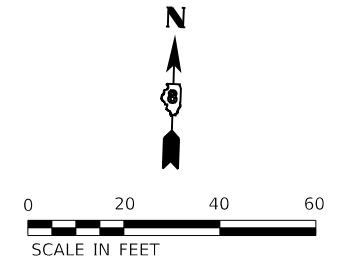
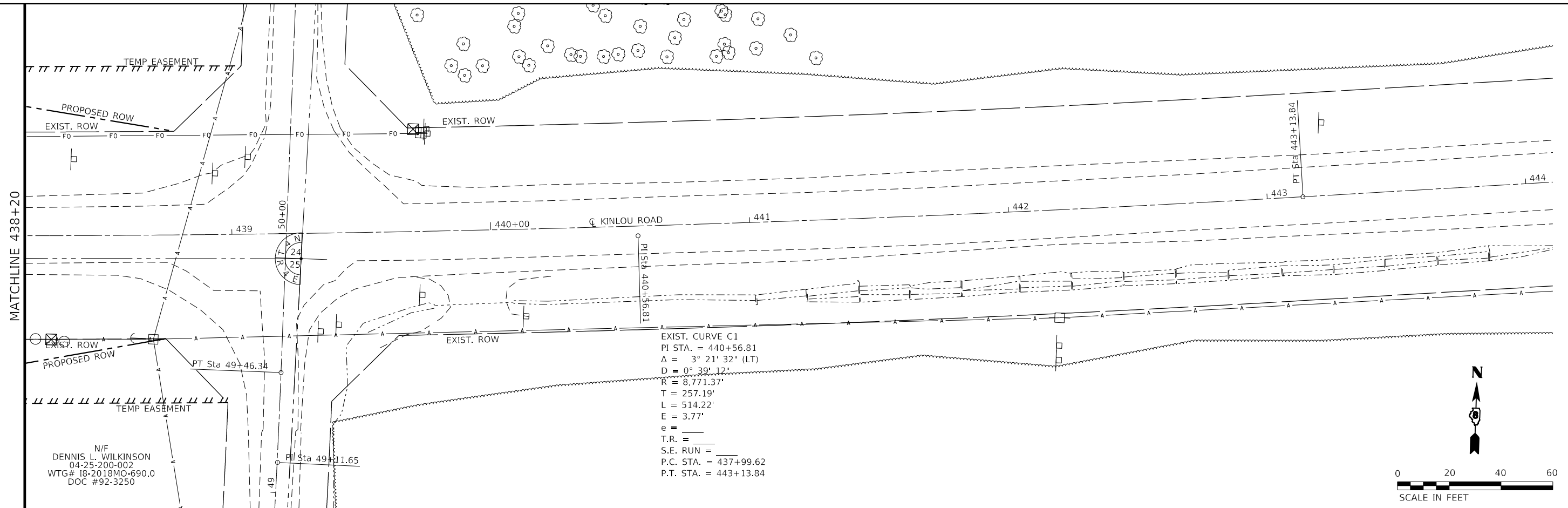
PLAN AND PROFILE  
 KINLOU ROAD OVER TRIBUTARY TO SKILLET FORK CREEK  
 SCALE: 1"=20' SHEET 2 OF 3 SHEETS STA. 432+40 TO STA. 438+20

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	33	14
CONTRACT NO. 76K67				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

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USER NAME = default	DESIGNED -	REVISED -
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PLOT DATE = 7/23/2020	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE  
 KINLOU ROAD OVER TRIBUTARY TO SKILLET FORK CREEK  
 SCALE: 1"=20' SHEET 3 OF 3 SHEETS STA. 438+20 TO STA. 444+10

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	33	15
				CONTRACT NO. 76K67
		ILLINOIS	FED. AID PROJECT	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION

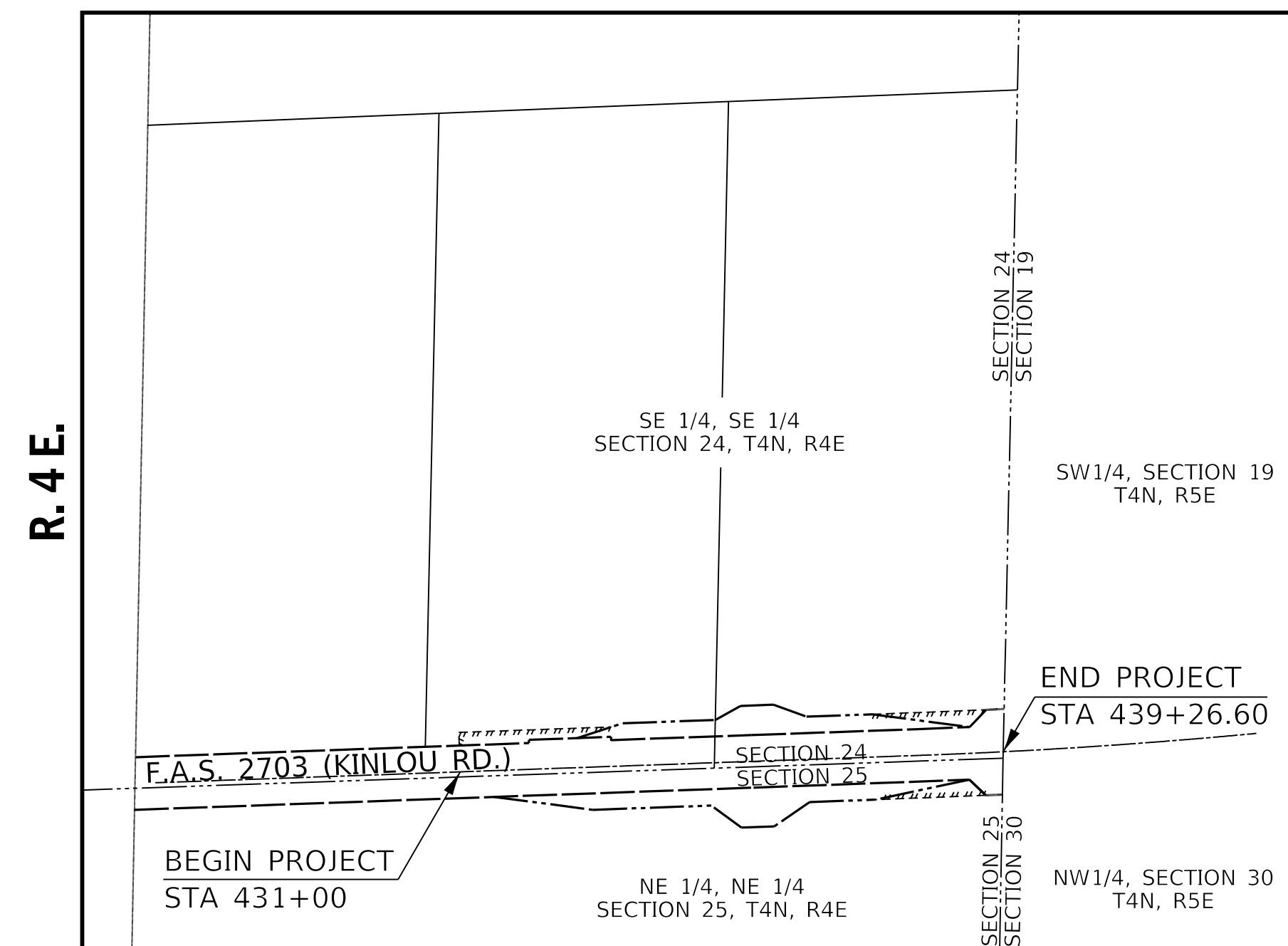
SPACE RESERVED FOR RECORDING OFFICER

SHEET INDEX		
SHEET NO.	STATION to STATION	DESCRIPTION
1		COVER SHEET
2		LEGEND/NOTE SHEET
3	431+00 to 439+26.60	PAR. 8914011, 8914012 & 8914013
4		TOTAL HOLDING
5		CONTROL & CL TIES SECTION CORNER TIES

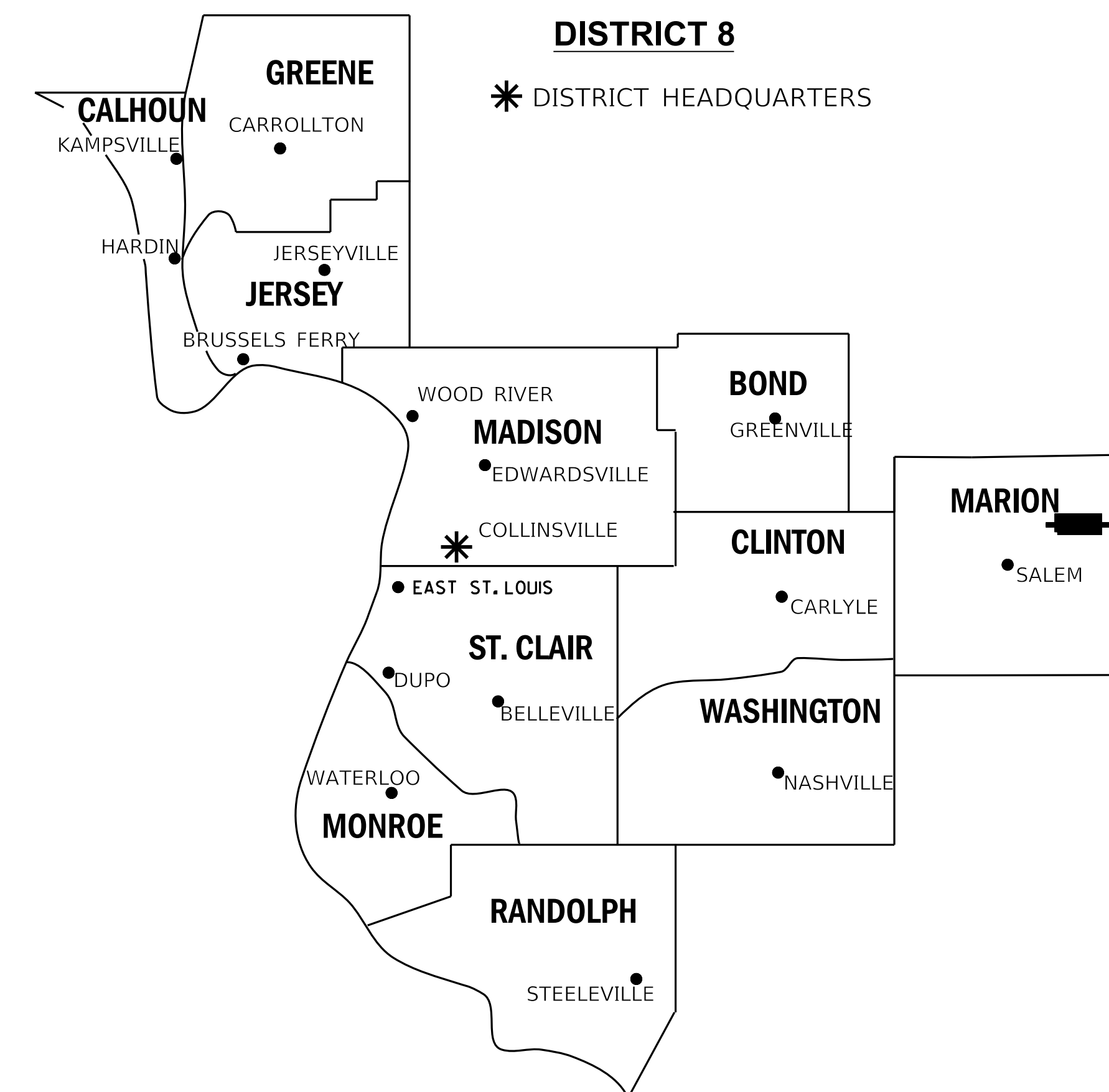
# PLAT OF HIGHWAYS

**FAS ROUTE 2703 (KINLOU RD.)  
SECTION 15BR-1  
MARION COUNTY  
JOB NO. R-98-014-19**

T. 4 N.



**PROJECT LENGTH = 826.60 LIN. FT. = 0.1566 MILES**



LOCATION OF SECTION INDICATED THUS:

**PREPARED BY:**

CIVIL DESIGN, INC.  
104 N. SECOND ST.  
SUITE A  
EFFINGHAM, IL 62401



PH. 217-342-2025  
IL DESIGN FIRM #184.003222



*Daniel Holland* 7/14/2020  
DANIEL J. HOLLAND, IPLS #3907  
EXPIRATION DATE 11/30/2020

SHEET 1 OF 5

ILLINOIS DEPARTMENT OF TRANSPORTATION OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8 1102 EASTPORT PLAZA DRIVE COLLINSVILLE, ILLINOIS 62234-6198				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	33	16
CONTRACT NO. 76K67				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

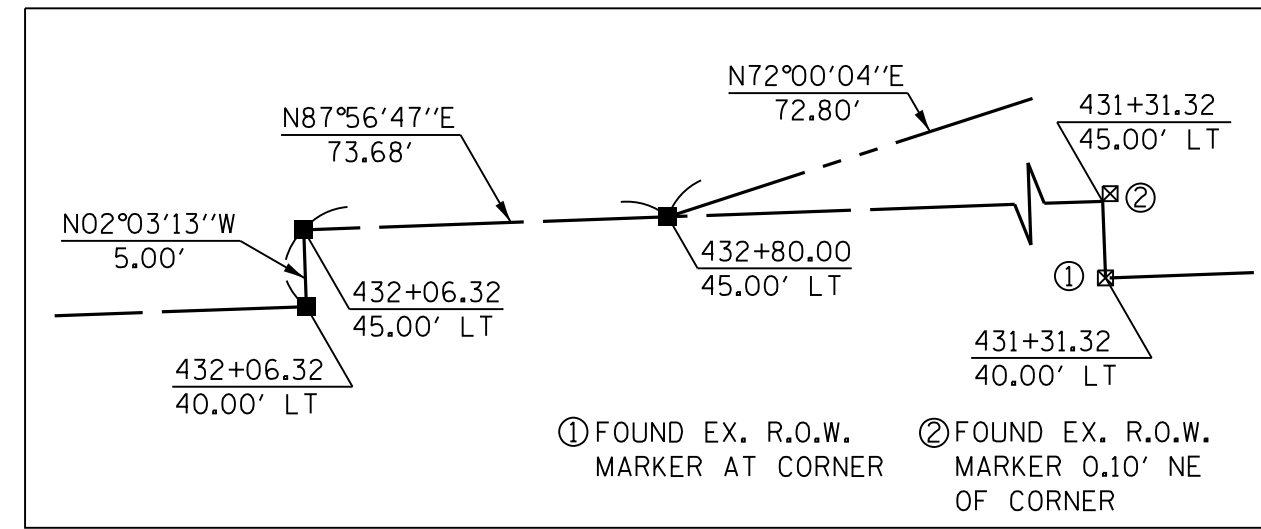




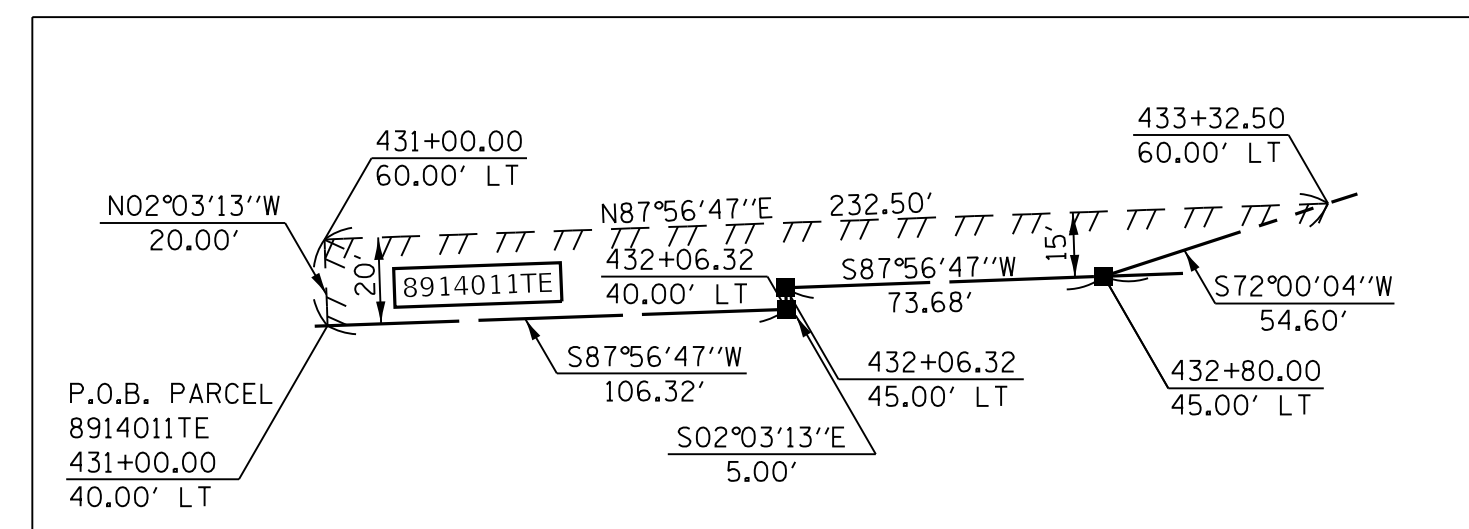
PART OF THE SE 1/4 OF THE SE 1/4 OF SECTION 24, AND PART OF THE NE 1/4 OF THE NE 1/4 OF SECTION 25, T. 4 N., R. 4 E., OF THE 3RD P.M., MARION COUNTY, ILLINOIS

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

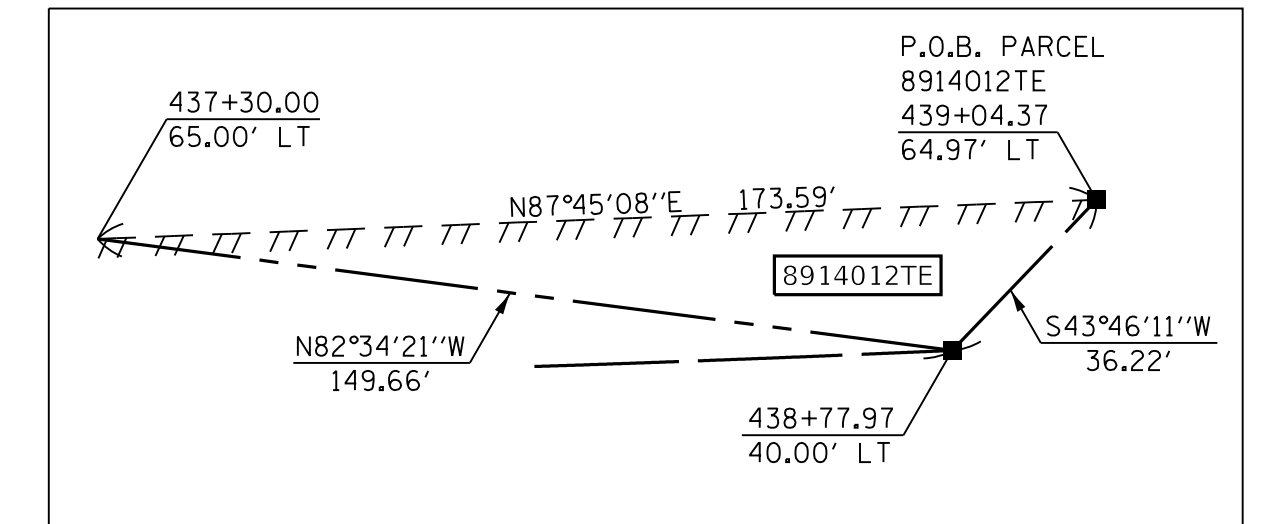
COORDINATE TABLE				
STATION	OFFSET	NORTH	EAST	DESCRIPTION
439+26.60	9.75' RT	765,126.9950	880,779.0630	SE COR. SEC. 24 NE COR. SEC. 25
434+86.70	8.28' RT	765,111.7714	880,339.2918	PROPERTY CORNER
430+45.51	7.74' RT	765,096.5078	879,898.3655	PROPERTY CORNER
430+48.25	40.00' LT	765,144.3128	879,899.3920	EXISTING R.O.W.
432+06.32	40.00' LT	765,149.9770	880,057.3544	EXISTING R.O.W.
432+06.32	45.00' LT	765,154.9738	880,057.1752	EXISTING R.O.W.
432+80.00	45.00' LT	765,157.6143	880,130.8118	PROPOSED R.O.W. IR SET
433+50.00	65.00' LT	765,180.1099	880,200.0502	PROPOSED R.O.W. IR SET
434+90.91	65.00' LT	765,185.1593	880,340.8676	PROPOSED R.O.W. IR SET
435+30.00	85.00' LT	765,206.5473	880,379.2179	PROPOSED R.O.W. IR SET
435+80.00	85.00' LT	765,208.3391	880,429.1858	PROPOSED R.O.W. IR SET
436+30.00	65.00' LT	765,190.1437	880,479.8703	PROPOSED R.O.W. IR SET
437+30.00	65.00' LT	765,193.7272	880,579.8061	PROPOSED R.O.W. IR SET
438+77.97	40.00' LT	765,174.3810	880,728.2057	PROPOSED R.O.W. IR SET
439+04.37	64.97' LT	765,200.5356	880,753.2605	EXISTING R.O.W.
439+32.01	64.97' LT	765,201.8897	880,780.6711	EXISTING R.O.W.
439+22.84	64.97' RT	765,071.6578	880,778.0602	EXISTING R.O.W.
438+97.76	64.97' RT	765,070.4336	880,752.8168	EXISTING R.O.W.
438+74.14	40.00' RT	765,094.2898	880,727.9440	PROPOSED R.O.W. IR SET
437+30.00	65.00' RT	765,063.8107	880,584.4647	PROPOSED R.O.W. IR SET
436+30.00	65.00' RT	765,060.2272	880,484.5289	PROPOSED R.O.W. IR SET
435+75.00	100.00' RT	765,023.2787	880,430.8184	PROPOSED R.O.W. IR SET
435+25.00	100.00' RT	765,021.4870	880,380.8506	PROPOSED R.O.W. IR SET
434+80.00	65.00' RT	765,054.8519	880,334.6252	PROPOSED R.O.W. IR SET
433+00.00	65.00' RT	765,048.4016	880,154.7408	PROPOSED R.O.W. IR SET
431+50.00	40.00' RT	765,068.0103	880,003.9413	PROPOSED R.O.W. IR SET
426+02.38	40.00' RT	765,048.3864	879,456.6756	EXISTING R.O.W.
426+04.17	7.19' RT	765,081.2390	879,457.2880	PROPERTY CORNER
431+00.00	40.00' LT	765,146.1672	879,951.1066	PROPOSED TEMP. EASEMENT
431+00.00	60.00' LT	765,166.1543	879,950.3899	PROPOSED TEMP. EASEMENT
433+32.50	60.00' LT	765,174.4860	880,182.7406	PROPOSED TEMP. EASEMENT



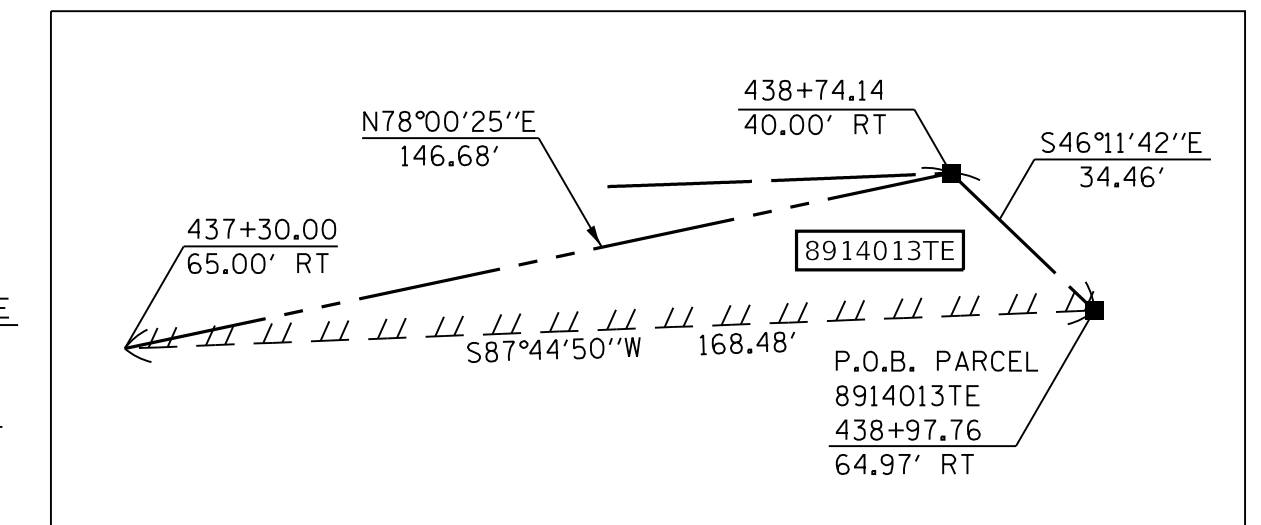
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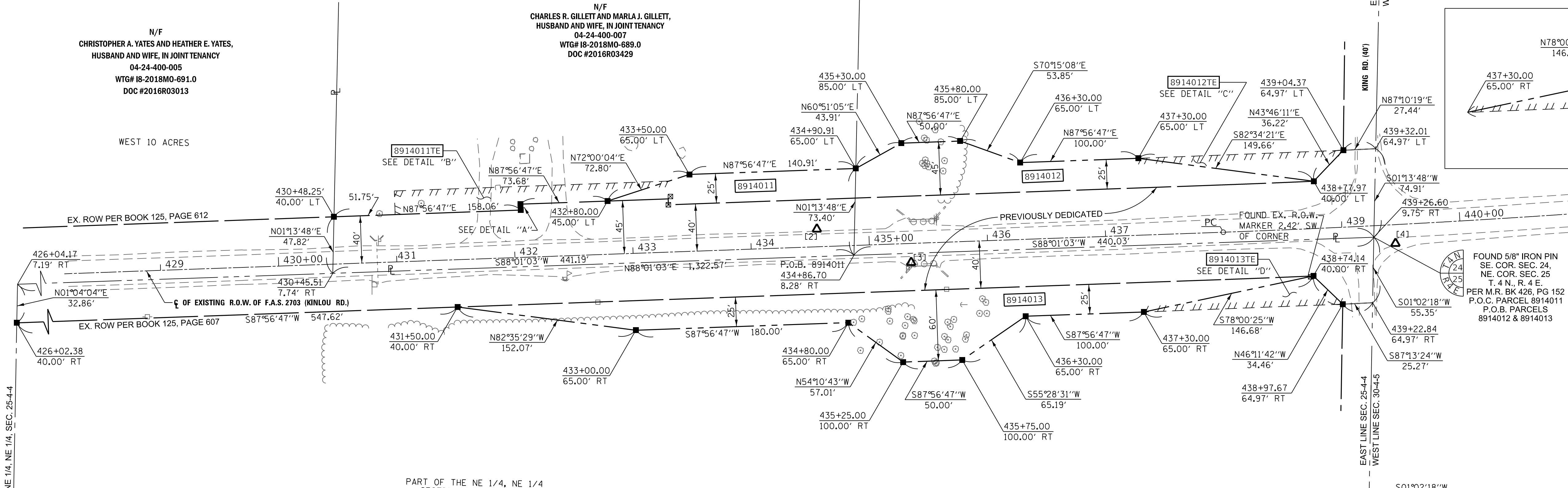
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DETAIL "C"  
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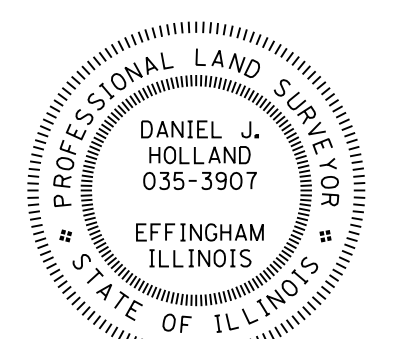


DETAIL "D"  
NOT TO SCALE



EXIST. CURVE KINLOU RD.  
PI STA. = 440+56.81  
Δ = 3° 21' 32" (LT)  
D = 0° 39' 12"  
R = 8,771.37'  
T = 257.19'  
L = 514.22'  
E = 3.77'  
P.C. STA. = 437+99.62  
P.T. STA. = 443+13.84

CIVIL DESIGN, INC.  
104 N. SECOND ST.  
SUITE A  
EFFINGHAM, IL 62401  
PH. 217-342-2025  
IL DESIGN FIRM #184.003222



STATE OF ILLINOIS )  
                                  ) SS  
COUNTY OF EFFINGHAM )

I, DANIEL J. HOLLAND, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

*Daniel J. Holland* DATED 7/14/2020  
DANIEL J. HOLLAND, PLS NO. 3907  
LICENSE EXPIRATION DATE: 11/30/2020

\* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION							EASEMENTS		PERMANENT TAX NUMBER AFFECTED	PROPERTY ACQUIRED BY
			GROSS ACRES	SQ FT	PREVIOUSLY DEDICATED		NET ACRES	SQ FT	REMAINDER ACRES	TE = TEMPORARY			
					ACRES	SQ FT				ACRES	SQ FT		
8914011	CHARLES R. GILLETT AND MARLY J. GILLETT, HUSBAND AND WIFE, IN JOINT TENANCY MO-689	10.2464	0.5993	26,107	0.5006	21,808	0.0987	4,299	9.6471	0.0832	3,625	DRIVEWAY RECONSTRUCTION & GRADING	04-24-400-007
8914012	HAROLD KEITH KESSLER AND RUTH CAROLYN KESSLER, AS JOINT TENANTS MO-688	10.2464	0.7381	32,150	0.5143	22,402	0.2238	9,748	9.5083	0.0501	2,138	ACCOMMODATE STAGING	04-24-400-006
8914013	DENNIS L. WILKINSON MO-690	70.6841	1.4035	61,138	0.9922	43,222	0.4113	17,916	69.2806	0.0480	2,090	ACCOMMODATE STAGING	04-25-200-002

COMPLETION DATE OF FIELD WORK PERFORMED	
LAND SURVEY: 03/06/19	ROW STAKING:

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAT OF HIGHWAYS**  
FAS ROUTE 2703 (KINLOU RD.)  
SECTION 15BR-1  
MARION COUNTY  
JOB NO. R-98-014-19  
STATION 431+00.00 TO STATION 439+26.60

SCALE: 1" = 50'

ILLINOIS DEPARTMENT OF TRANSPORTATION  
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8  
1102 EASTPORT PLAZA DRIVE  
COLLINGSVILLE, ILLINOIS 62234-6198

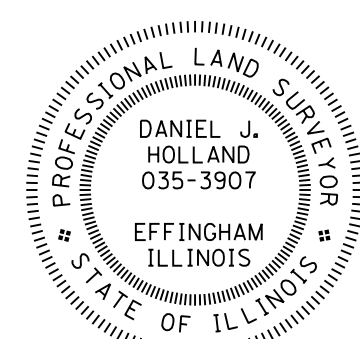
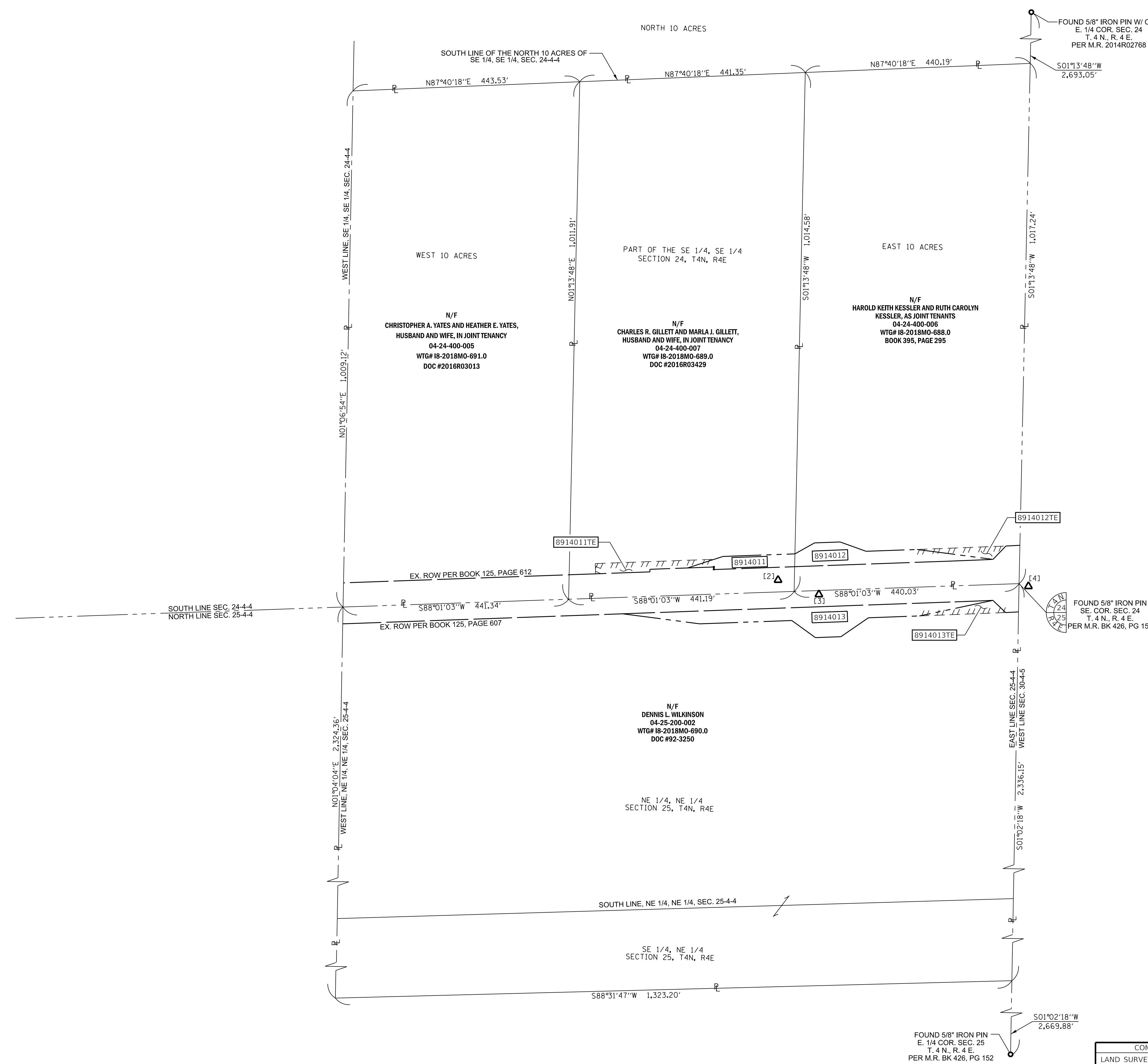
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	33	18

CONTRACT NO. 76K67  
FED. ROAD DIST. NO. ILLINOIS  
FED. AID PROJECT



SPACE RESERVED FOR RECORDING OFFICER

## TOTAL HOLDING SKETCH PARCELS 8314011, 8314012 & 8314013



STATE OF ILLINOIS )  
                                  ) SS  
COUNTY OF EFFINGHAM )

I, DANIEL J. HOLLAND, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

*Daniel J. Holland* DATED 7/14/2020  
DANIEL J. HOLLAND, PLS NO. 3907  
LICENSE EXPIRATION DATE: 11/30/2020



PH. 217-342-2025  
IL DESIGN FIRM #184.003222

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAT OF HIGHWAYS**  
FAS ROUTE 2703 (KINLOU RD.)  
SECTION 15BR-1  
MARION COUNTY  
JOB NO. R-98-014-19  
STATION 431+00.00 TO STATION 439+26.60

SCALE: 1" = 100'

ILLINOIS DEPARTMENT OF TRANSPORTATION  
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8  
1102 EASTPORT PLAZA DRIVE  
COLLINSVILLE, ILLINOIS 62234-6198

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	33	19

CONTRACT NO. 76K67  
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

SECTION CORNER AND CONTROL TIE SHEET

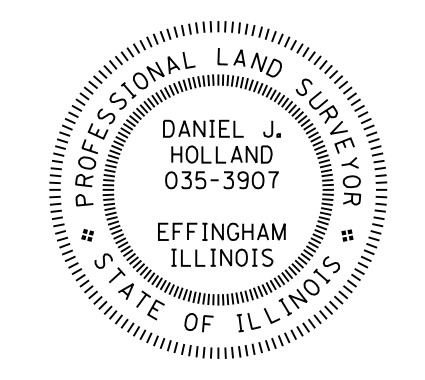
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<p>CP #7 N=771,613.7060, E=868,977.1298</p>	<p>CP #8 Sta. N=770,487.8856, E=886,639.9987</p>				
<p>S. 1/4 COR SEC 24, T. 4 N., R. 4 E. 05/10/18 MONUMENT RECORD DOC. NO. 2018R02467 N=765035.483, E=878135.513</p>	<p>E. 1/4 COR SEC 24, T. 4 N., R. 4 E. 05/14/14 MONUMENT RECORD DOC. NO. 2014R02768 N=767819.429, E=880836.874</p>	<p>SE COR SEC 24, T. 4 N., R. 4 E. 10/09/90 MONUMENT RECORD BK 426 PAGE 152 N=765127.00, E=880779.10</p>	<p>CENTER SEC 24, T. 4 N., R. 4 E. 09/24/19 MONUMENT RECORD DOC. NO. D197465 N=767695.50, E=878181.90</p>		
<p>E. 1/4 COR SEC 25, T. 4 N., R. 4 E. 09/10/90 MONUMENT RECORD BK. 426, PG. 152 N=762457.55, E=880730.70</p>	<p>W. 1/4 COR SEC 25, T. 4 N., R. 4 E. 09/10/90 MONUMENT RECORD BK. 426, PG. 152 N=762328.31, E=875431.60</p>	<p>S. 1/4 COR SEC 25, T. 4 N., R. 4 E. 09/24/19 MONUMENT RECORD DOC. NO D197464 N=759718.540, E=878033.624</p>			

STATE OF ILLINOIS )  
COUNTY OF EFFINGHAM ) SS

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DATED: 7/14/2020  
Daniel J. Holland  
DANIEL J. HOLLAND, PLS NO. 3907  
LICENSE EXPIRATION DATE: 11/30/2020

SPACE RESERVED FOR RECORDING OFFICER

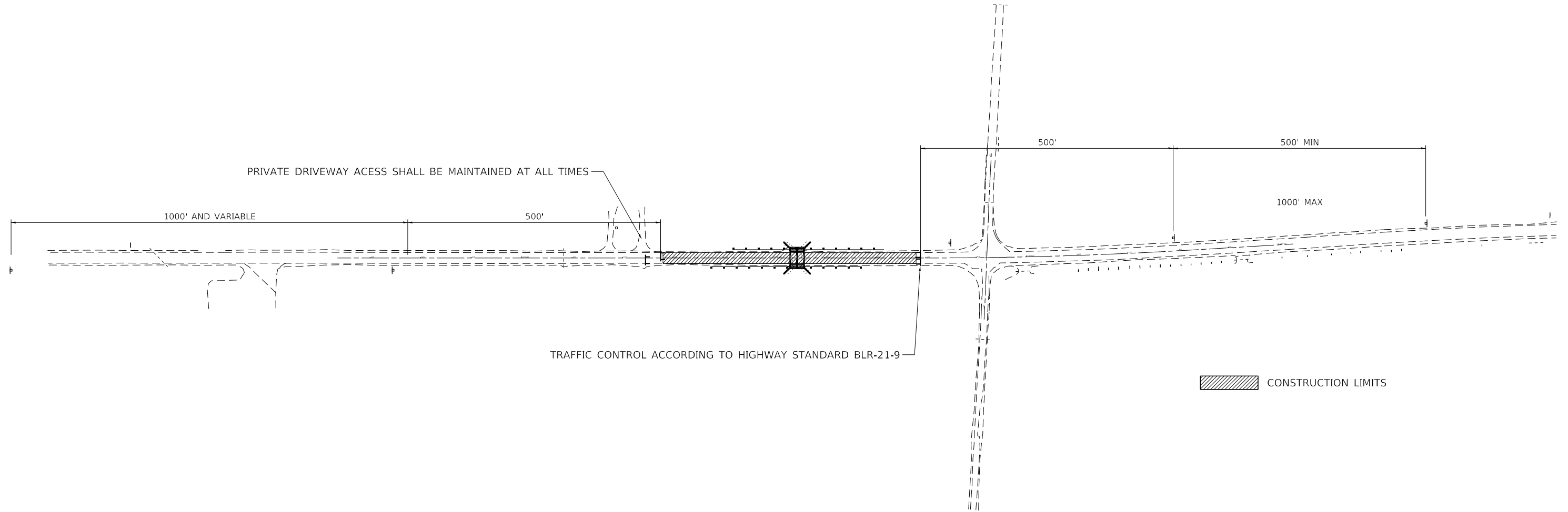
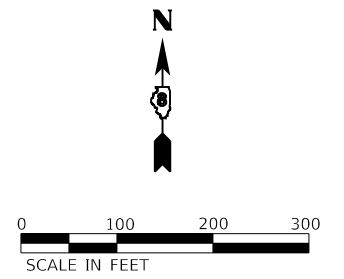


CIVIL DESIGN, INC.  
104 N. SECOND ST.  
SUITE A  
EFFINGHAM, IL 62401

PH. 217-342-2025  
IL DESIGN FIRM #184.003222

COMPLETION DATE OF FIELD WORK PERFORMED			
LAND SURVEY:	03/06/19	ROW STAKING:	
ILLINOIS DEPARTMENT OF TRANSPORTATION <b>PLAT OF HIGHWAYS</b> FAS ROUTE 2703 (KINLOU RD.) SECTION 15BR-1 MARION COUNTY JOB NO. R-98-014-19 STATION 431+00.00 TO STATION 439+26.60			
SHEET 5 OF 5			
ILLINOIS DEPARTMENT OF TRANSPORTATION OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8 1102 EASTPORT PLAZA DRIVE COLLINGSVILLE, ILLINOIS 62234-6198			
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS SHEET NO.
2703	15BR-1	MARION	33 20
CONTRACT NO. 76K67			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

NOTE: NO DETOUR REQUIRED FOR THIS PROJECT



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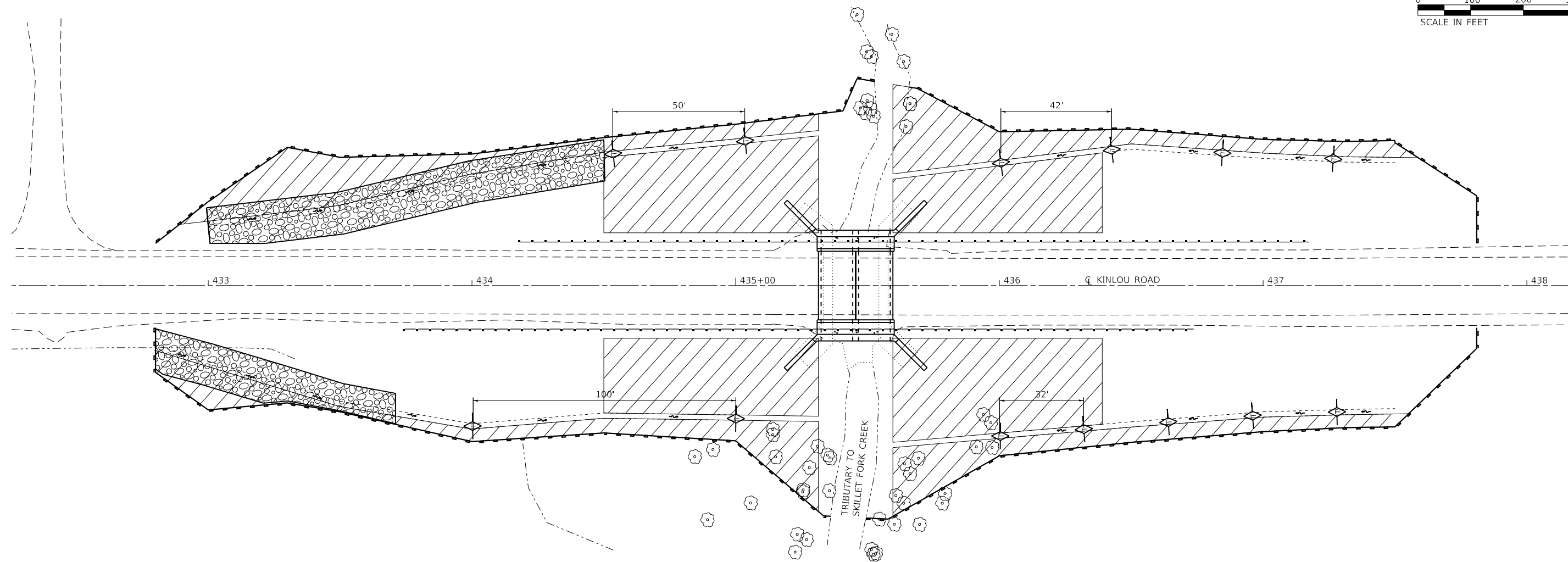
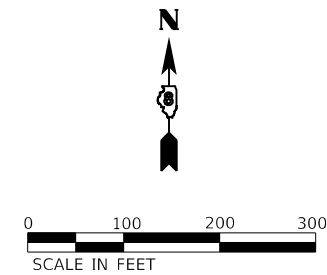
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL  
KINLOU ROAD OVER TRIBUTARY TO SKILLET FORK CREEK**

SCALE: 1"=100'    SHEET 1 OF 1 SHEETS    STA.    TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	33	21
CONTRACT NO. 76K67				
ILLINOIS FED. AID PROJECT				



TEMPORARY DITCH CHECK

PERIMETER EROSION CONTROL BARRIER

TEMPORARY EROSION CONTROL BLANKET

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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

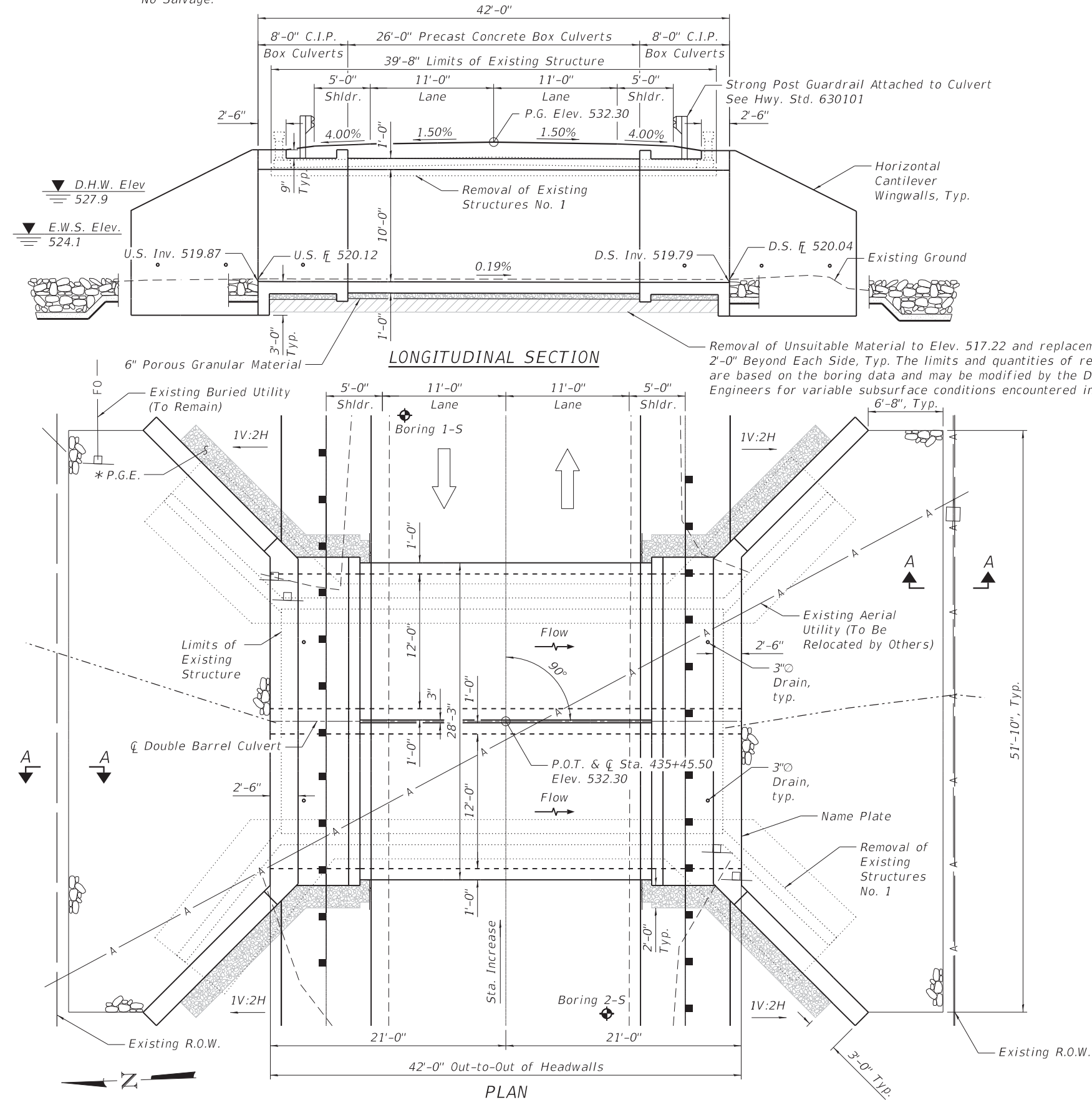
**EROSION CONTROL**  
**KINLOU ROAD OVER TRIBUTARY TO SKILLET FORK CREEK**

SCALE: 1"=20'      SHEET 1 OF 1 SHEETS      STA.      TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	33	22
CONTRACT NO. 76K67				
ILLINOIS FED. AID PROJECT				

Benchmark: BM 1, Chiseled  $\square$  on top of NE concrete wingwall of S.N. 061-0067, Elev. 530.43.

Existing Structure: The existing reinforced concrete bridge S.N. 061-0067 was built in 1937 as F.A. Rte. 149, Section 15-B at Sta. 435+45.50. Existing structure is a single-span concrete slab bridge, restrained top & bottom on closed concrete abutments. 22'-0" back to back abutments, 39'-4" out to out deck with no skew. Existing structure will be removed and replaced with a double barrel box culvert. The roadway will be closed and traffic detoured during construction. No Salvage.



**TOTAL BILL OF MATERIAL**

ITEM NO.	ITEM	UNIT	TOTAL
20700220	Porous Granular Embankment	Cu. Yd.	105
28100109	Stone Riprap, Class A5	Sq. Yd.	261
28200200	Filter Fabric	Sq. Yd.	261
50100300	Removal of Existing Structures No. 1	Each	1
50200450	Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	56
50800105	Reinforcement Bars	Pound	26,650
51500100	Name Plates	Each	1
54003000	Concrete Box Culverts	Cu. Yd.	127.0
54011210	Precast Concrete Box Culverts 12'x10'	Foot	52.0
59100100	Geocomposite Wall Drain	Sq. Yd.	119
65000030	Strong Post Guardrail Attached to Culvert	Foot	59
X0900064	Membrane Waterproofing System for Buried Structures	Sq. Yd.	119
Z0054517	Rock Fill - Foundation	Ton	106

**INDEX OF SHEETS**

1. General Plan and Elevation
2. General Data
- 3-4. End Section Details
- 5-6. Soil Boring Logs



Vincent P. Tabor 9/24/2020

Vincent P. Tabor  
Licensed Structural Engineer  
State of Illinois No. 081-007047  
Expires 11/30/2020

**DESIGN SPECIFICATIONS**

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

**LOADING HL-93**

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

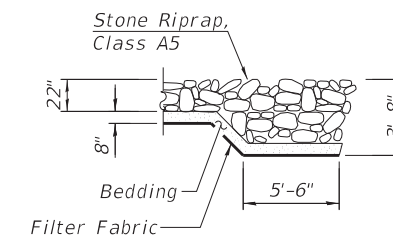
**DESIGN STRESSES**

**PRECAST UNITS** (New Construction)

$f'_c = 5,000$  psi  
 $f_y = 65,000$  psi (Welded Wire Reinforcement)

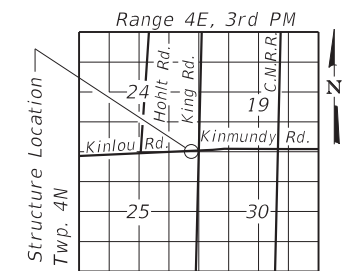
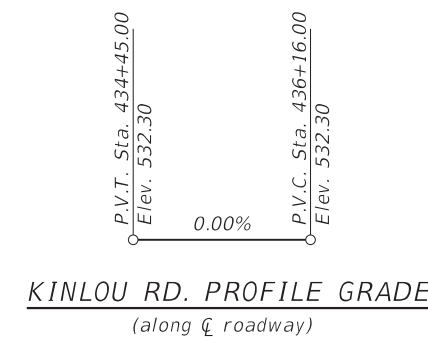
**FIELD UNITS** (New Construction)

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)



**SECTION A-A**

\* 2'-0" width of P.G.E. to be installed full length of proposed culvert, to 3'-0" from the end of the proposed wingwalls. Adjacent to culvert, vertical limits are from bottom of bottom slab to top of top slab. Along wingwalls, vertical limits are from bottom of culvert bottom slab to 1'-0" below top of wingwall. P.G.E. shall be capped with a 12" thick layer of impervious material. Cost of impervious material shall be included in the cost of Porous Granular Embankment.



**LOCATION SKETCH**

**GENERAL PLAN AND ELEVATION**  
**KINLOU ROAD OVER**  
**TRIBUTARY TO SKILLET FORK CREEK**  
**F.A.S. RTE. 2703 SEC. 15BR-1**  
**MARION COUNTY**  
**STATION 435+45.50**  
**S.N. 061-2027**

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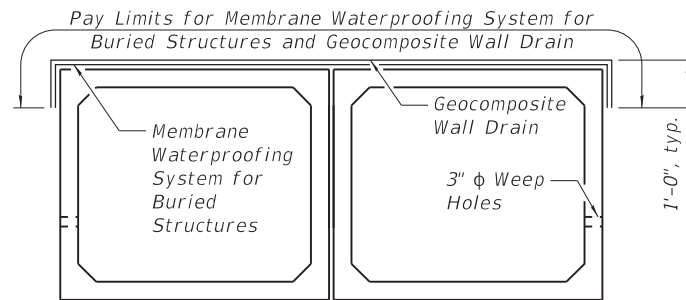
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	CHECKED - VPT	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION**  
**STRUCTURE NO. 061-2027**

SHEET 1 OF 6 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	34	23
CONTRACT NO. 76K67				
ILLINOIS FED. AID PROJECT				



**LIMITS OF MEMBRANE WATERPROOFING**

Longitudinal limits of membrane waterproofing are full length of the precast concrete box culverts, and between the cast in place concrete edge beams and headwalls.

**GENERAL NOTES**

The design fill height for this box is 1.50 ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577.

Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specifications.

The 6 in. thick layer of porous granular material required for the precast concrete box culvert per Art. 540.06 of the Standard Specifications shall also apply to the cast in place end sections. Cost of the porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.

Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard, unless noted otherwise.

It shall be the Contractor's responsibility to verify the location of all utilities prior to starting construction. Contact J.U.L.I.E., 800-892-0123.

All hardware required for mounting of guardrail to top of culvert shall be included in the cost of Strong Post Guardrail Attached to Culvert.

The box culvert end section shall be built in the field and a precast option is not allowed except the cutoff wall may be precast. If the Contractor elects to use a precast cutoff wall, shop drawings and a proposed construction sequence shall be submitted to the Engineer for approval.

Areas of the precast box culvert in contact with cast in place concrete shall be sandblasted, cleaned, and wetted prior to placing concrete in the field according to Article 503.09(b).

The ends of the precast box sections adjacent to the cast in place end sections shall be formed without male and female shapes.

The joints between precast box sections shall be sealed, all voids filled with a mastic joint sealer. In addition, the joints shall be externally sealed on all four sides with a 13 inch wide external sealing band. The seal shall be centered over the joint, secured in place and protected during the backfilling process.

Extend precast concrete box culvert welded wire fabric a minimum of 1'-6" into cast in place end sections. Bend as necessary to provide 2" required clear cover. See Section Thru Edge Beam on sheet 4 of 6.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.

STATION 435+45.50  
 BUILT 20 BY  
 STATE OF ILLINOIS  
 F.A.S. RTE. 2703 SEC. 15BR-1  
 LOADING HL-93  
 STR. NO. 061-2027

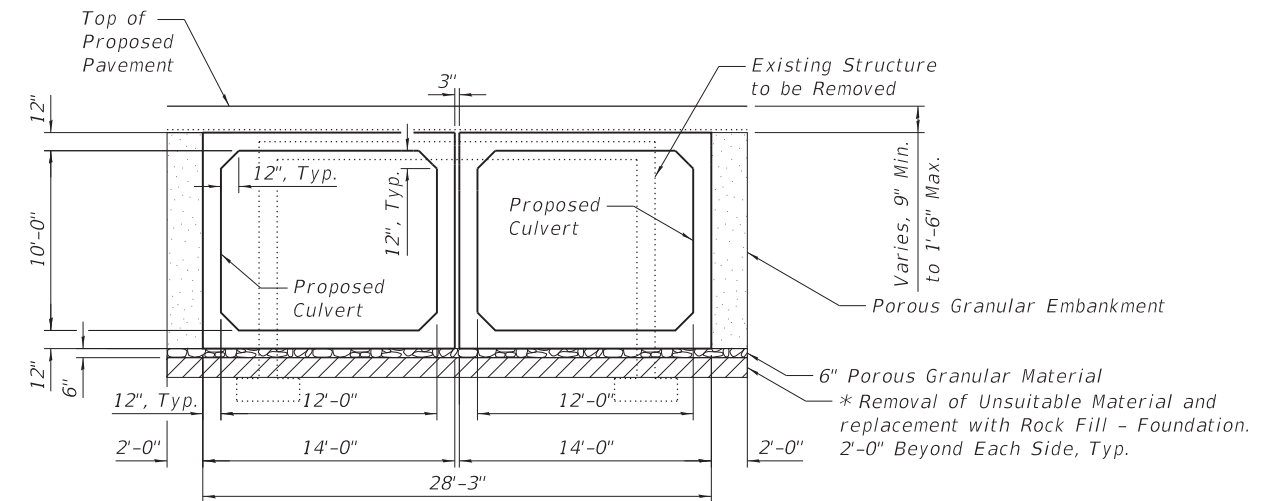
**NAME PLATE**  
 See Std. 515001

**PRECAST BOX CULVERT SCHEDULE (ASTM C1577)**

Station	Size (Span x Height)	Skew	Design Fill	
			Min.	Max.
435+45.50	12'-0" x 10'-0"	0°	9"	1'-6"

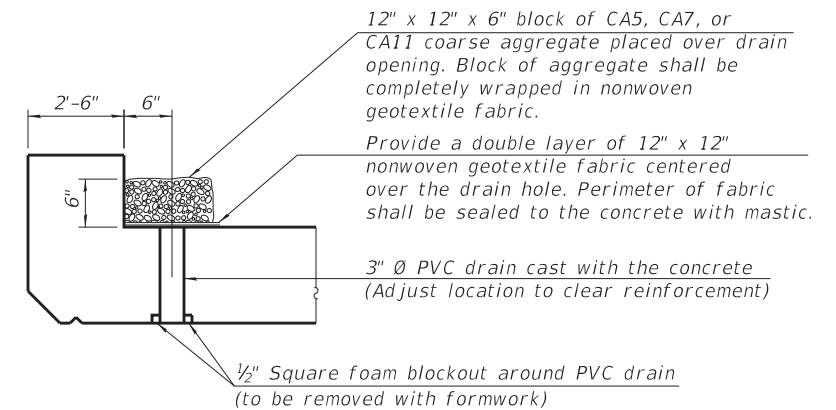
**CULVERT CONSTRUCTION SEQUENCE**

1. Close Kinlou Road and detour traffic around worksite.
2. Divert water from construction area.
3. Remove existing structure and unsuitable foundation materials as necessary.
4. Construct proposed culvert.
5. Remove water diversion measures.
6. Complete roadway construction in accordance with the maintenance of traffic and roadway plans.



**SECTION THROUGH BARRELS**  
 (Precast shown. Cast in place similar. See End Section Details for cast in place dimensions.)

\* See GPE Sheet for anticipated length and bottom elevation of Rock Fill - Foundation. Final limits to be determined in the field at time of construction.



**DRAIN DETAIL**

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

**WATERWAY INFORMATION**

Drainage Area = 1.66 Sq. Mi.		Existing Low Edge of Pavement El. = 530.84 @ Sta. 435+45.13 Proposed Low Edge of Pavement El. = 532.00 @ Sta. 435+48.25							
Flood	Frequency (Yr.)	Q (C.F.S.)	Opening - Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	906	125.5	172.3	527.3	1.0	0.3	528.3	527.6
Base/Exist. 0T	50	1520	137.3	186.7	527.9	3.4	1.1	531.3	529.0
	100	1800	141.7	191.8	528.1	3.2	1.6	531.3	529.7
Max. Calc.	200	1983	148.4	194.9	528.2	3.3	2.0	531.5	530.2
	500	2530	151.6	203.0	528.6	3.4	3.3	532.0	531.9

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**LE** LIN ENGINEERING, LTD.  
 Consulting Engineers  
 Springfield, Illinois

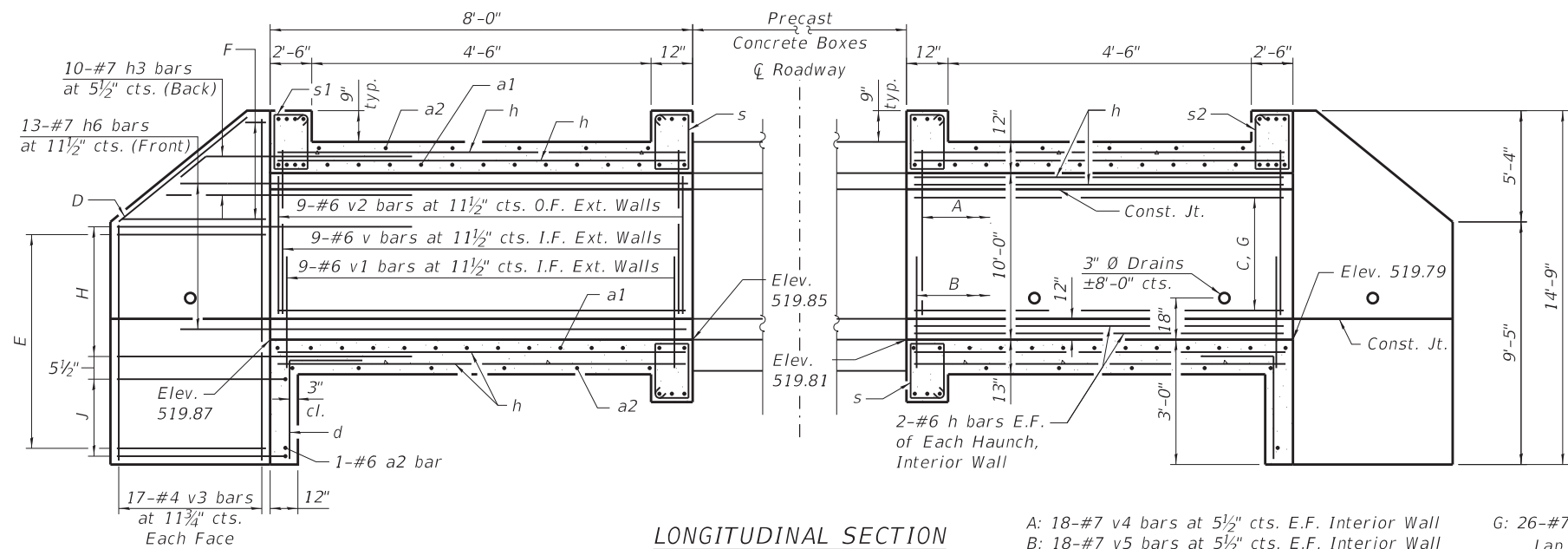
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GENERAL DATA  
 STRUCTURE NO. 061-2027  
 SHEET 2 OF 6 SHEETS

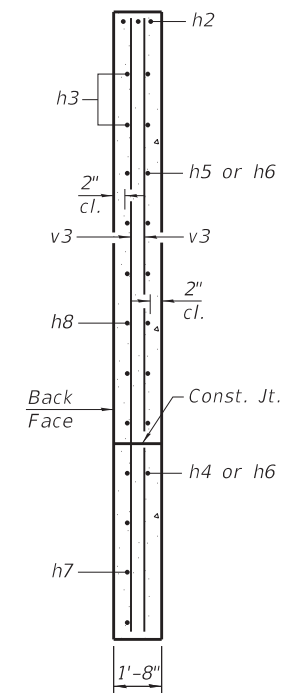
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CONTRACT NO. 76K67				
ILLINOIS FED. AID PROJECT				



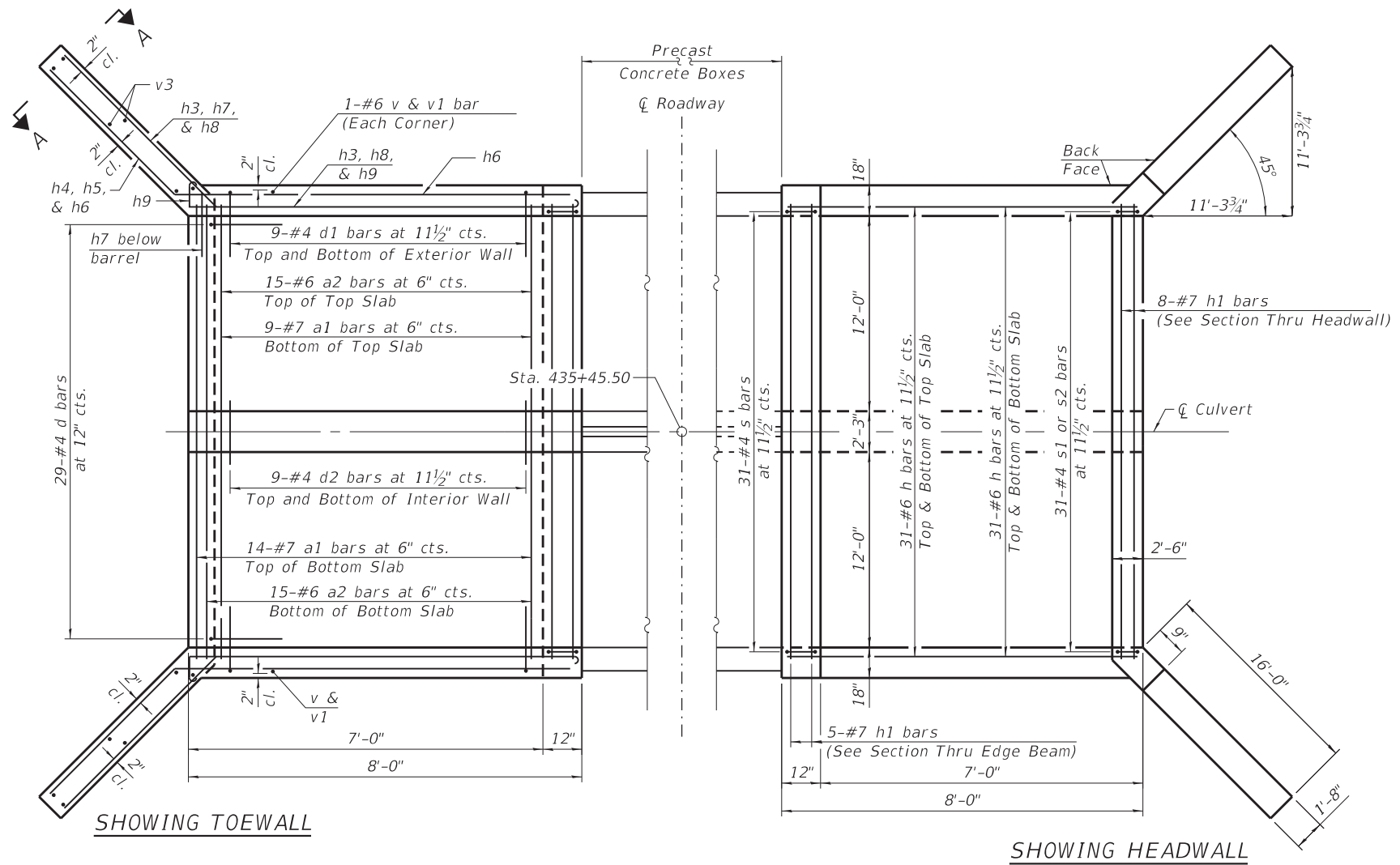


**LONGITUDINAL SECTION**

- A: 18-#7 v4 bars at 5 1/2" cts. E.F. Interior Wall
- B: 18-#7 v5 bars at 5 1/2" cts. E.F. Interior Wall
- C: 9-#6 h bars at 11 1/2" cts. E.F. Interior Wall
- D: 3-#4 h2 bars (Top, Along Slope)
- E: 10-#4 h4 bars at 11" cts. (Front). Cut to fit in field below barrel.
- F: 6-#4 h5 bars at 11" cts. (Front)
- G: 26-#7 h9 bars at 5 1/2" cts. I.F. Exterior Walls. Lap to h3 or h8 bars. Place hooked end to be nearest the Outside Face.
- H: 15-#7 h8 bars at 5 1/2" cts. (Back)
- J: 5-#7 h7 bars at 5 1/2" cts. (Back)



**SECTION A-A**



**PLAN**

**Notes:**  
 A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.  
 At the Contractor's option, a longer v1 bar may be ordered to replace the v bar. No reduction in quantities shall be made for this substitution.

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 Consulting Engineers  
 Springfield, Illinois

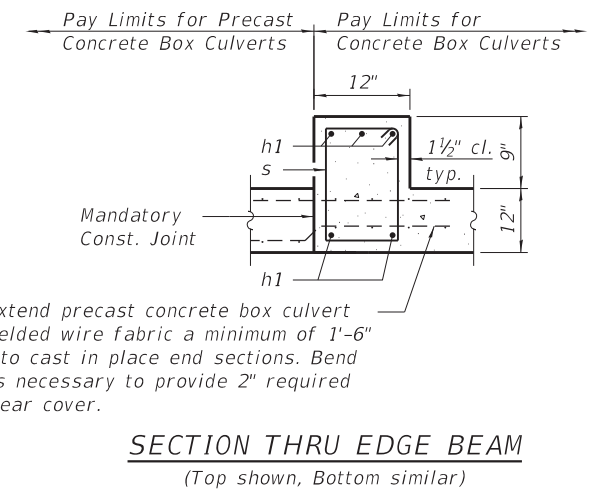
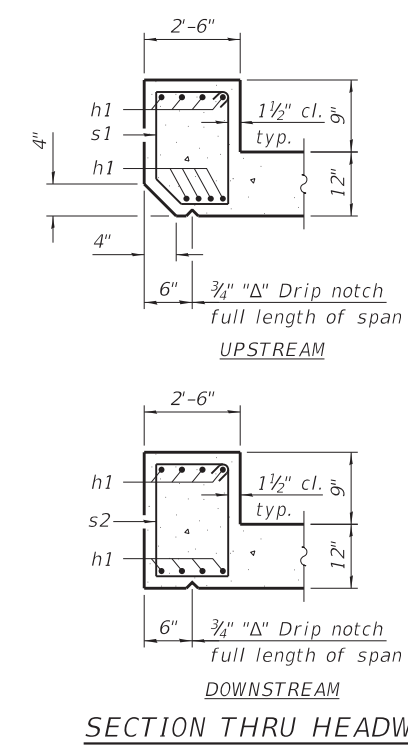
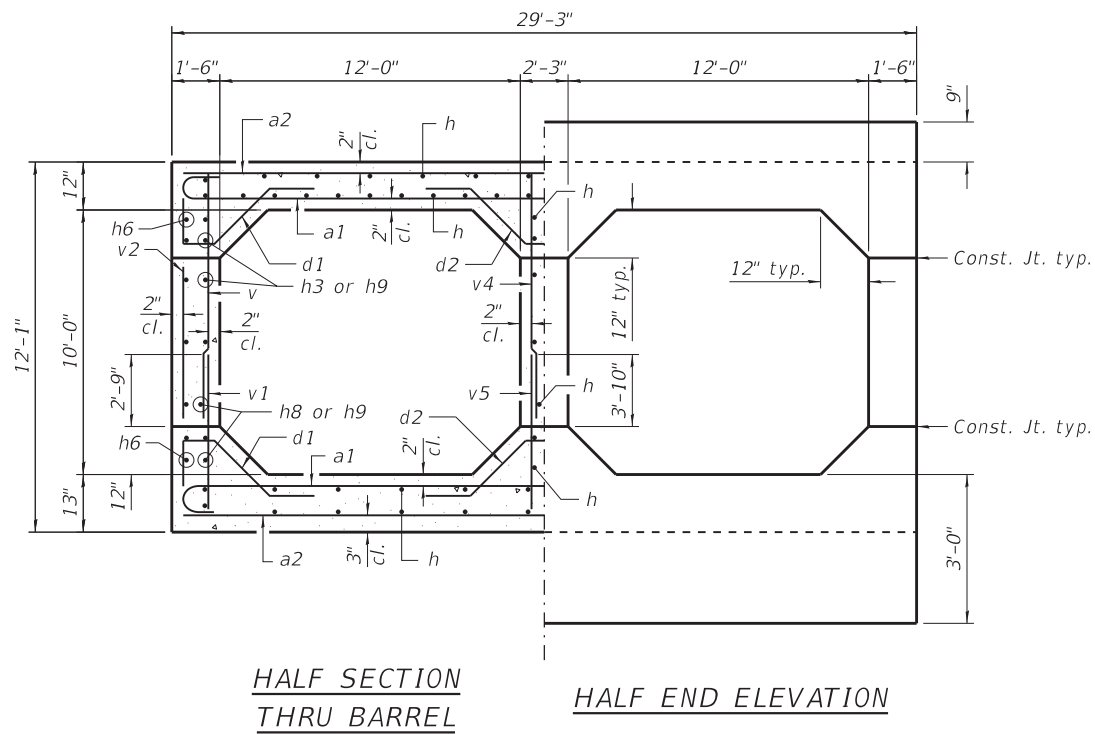
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**END SECTION DETAILS  
 STRUCTURE NO. 061-2027**

SHEET 3 OF 6 SHEETS

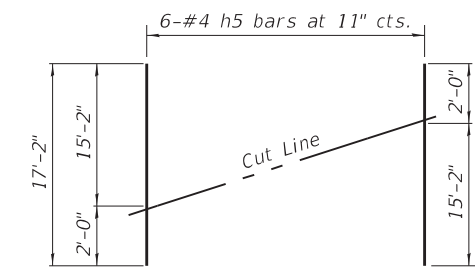
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CONTRACT NO. 76K67				
ILLINOIS FED. AID PROJECT				



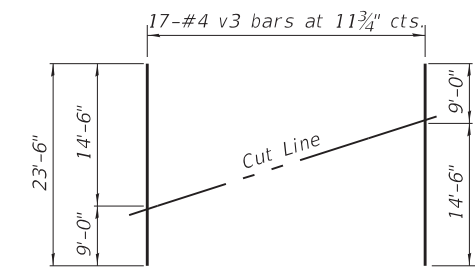
Extend precast concrete box culvert welded wire fabric a minimum of 1'-6" into cast in place end sections. Bend as necessary to provide 2" required clear cover.

**BILL OF MATERIAL**  
(Two End Sections)

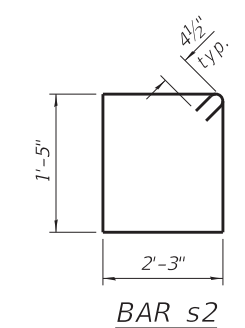
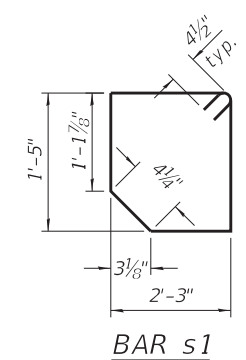
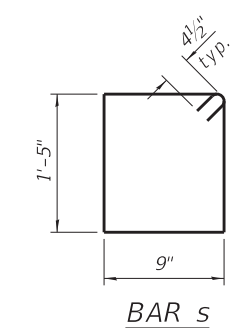
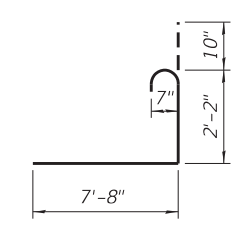
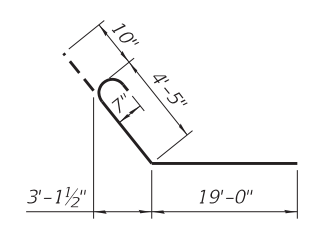
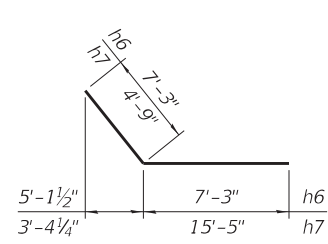
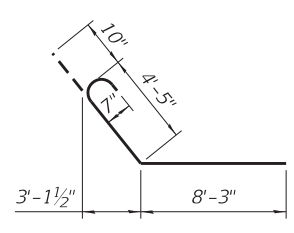
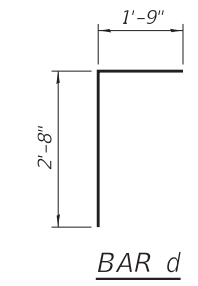
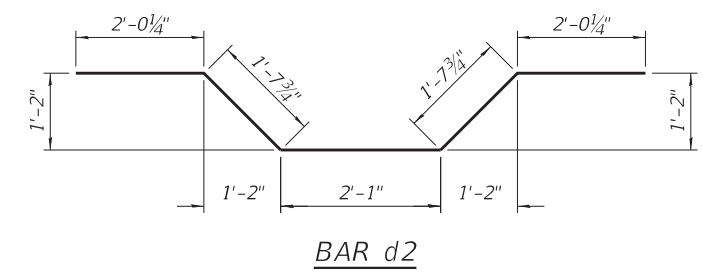
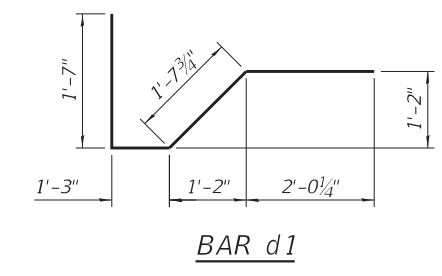
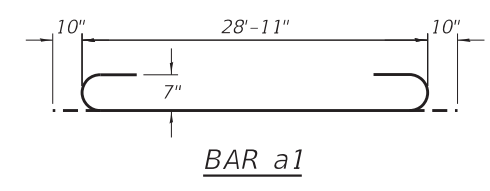
Bar	No.	Size	Length	Shape
a1	46	#7	30'-7"	U
a2	62	#6	28'-11"	—
d	58	#4	4'-5"	L
d1	72	#4	6'-6"	S
d2	36	#4	9'-5"	U
h	300	#6	7'-8"	—
h1	36	#7	28'-9"	—
h2	12	#4	16'-0"	—
h3	40	#7	13'-6"	U
h4	40	#4	17'-8"	—
h5	12	#4	17'-2"	—
h6	52	#7	14'-6"	U
h7	20	#7	20'-2"	U
h8	60	#7	24'-3"	U
h9	104	#7	10'-8"	U
s	124	#4	5'-1"	□
s1	31	#4	7'-11"	□
s2	31	#4	8'-1"	□
v	40	#6	9'-8"	—
v1	40	#6	4'-7"	—
v2	36	#6	7'-8"	—
v3	68	#4	23'-6"	—
v4	72	#7	9'-8"	—
v5	72	#7	5'-8"	—
Concrete Box Culverts			Cu. Yd.	127.0
Reinforcement Bars			Pound	26,650



Order bars shown full length. Cut as shown and use remainder of bars in opposite wingwall.



Order bars shown full length. Cut as shown and use remainder of bars in opposite face of wingwall.



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

END SECTION DETAILS  
STRUCTURE NO. 061-2027

SHEET 4 OF 6 SHEETS

F.A.S. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.  
2703 15BR-1 MARION 34 26  
CONTRACT NO. 76K67  
ILLINOIS FED. AID PROJECT



# SOIL BORING LOG

Page 1 of 1

Date 6/12/19

ROUTE FAS 2703 (Kinlou Rd) DESCRIPTION 7 Mi E of Kinmundy, 1 Mi W of Clay Co LOGGED BY L.ESTEL

SECTION 15RS-5 LOCATION KINLOU ROAD, SEC., TWP., RNG.,  
Latitude, Longitude

COUNTY Marion DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.	Station	DEPTH	BLOW	UNCONSOLIDATED	MOISTURE	Surface Water Elev.	Stream Bed Elev.	GROUNDWATER ELEV.	FIRST ENCOUNTER	UPON COMPLETION	AFTER HRS.	DEPTH	BLOW	UNCONSOLIDATED	MOISTURE	
061-0067	435+45	H	W	Qu	S	ft	ft	ft	ft	ft	ft	(ft)	(/6")	(tsf)	(%)	
						520.65	520.25									
								518.2								
15" HMA and B&M																
	528.72															
Stiff Moist, Brown/Grey Clay		2		1.4	23											
	527.22	3	B													
Med. Stiff Moist, Brown/ Grey SILTY CLAY			WH													
	524.72	1	2	0.7	21											
Soft Moist-Damp, Grey SILTY CLAY with ORGANICS			WH													
	522.22		WH	0.1	25											
Soft Moist, Grey SILTY CLAY			WH													
	519.72	1	2	0.2	23											
Med. Stiff Mois., Grey SILTY CLAY			WH													
	517.22	1	2	0.6	21											
Hard Dry, Brown and Red SILT LOAM																
	514.72	3	14	4.6	17											
Hard Dry, Blue Grey SILT LOAM																
		4	12	6.8	15											
		14	B													
		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, form 137 (Rev. 8-99)



# SOIL BORING LOG

Page 1 of 1

Date 6/12/19

ROUTE FAS 2703 (Kinlou Rd) DESCRIPTION 7 Mi E of Kinmundy, 1 Mi W of Clay Co LOGGED BY L.ESTEL

SECTION 15RS-5 LOCATION KINLOU ROAD, SEC., TWP., RNG.,  
Latitude, Longitude

COUNTY Marion DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.	Station	DEPTH	BLOW	UNCONSOLIDATED	MOISTURE	Surface Water Elev.	Stream Bed Elev.	GROUNDWATER ELEV.	FIRST ENCOUNTER	UPON COMPLETION	AFTER HRS.	DEPTH	BLOW	UNCONSOLIDATED	MOISTURE	
061-0067	435+45	H	W	Qu	S	ft	ft	ft	ft	ft	ft	(ft)	(/6")	(tsf)	(%)	
						520.65	520.25									
								516.5								
CORED THROUGH AGG. SHOULDER, GRAVEL AND BROWN CLAY (VISUAL)																
	527.52															
Med. Stiff Moist, Grey CLAY to CLAYSHALE (continued)																
	510.02	9	12	2.4	22											
Hard Dry, Grey CLAYSHALE with COAL Seam																
	507.52	3	45	50	11											
End of Boring																
Soft Moist, Brown SILTY CLAY																
	525.02	2	2	0.2	21											
Soft Moist, Grey SILTY CLAY																
	522.52	1	1	0.4	17											
Med. Stiff Moist, Grey CLAY LOAM																
	517.52	1	2	0.5	20											
Hard Moist, Brown SILT LOAM																
	515.02	3	12	7.9	12											
Very Stiff MOist, Grey SILT LOAM with PEBBLES																
	512.52	2	11	3.5	18											
Med. Stiff Moist, Grey CLAY to CLAYSHALE																
		2														

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, form 137 (Rev. 8-99)

The boring logs represent point information. Presentation of this information in no way implies that subsurface conditions are the same at locations other than the exact location of the boring.

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS  
STRUCTURE NO. 061-2027

SHEET 5 OF 6 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	34	27
CONTRACT NO. 76K67				
ILLINOIS FED. AID PROJECT				



# ROCK CORE LOG

Date 6/12/19

ROUTE KINLOU ROAD DESCRIPTION 7 MILES E. OF KINMUMDY, .1 MILE WEST OF CLAY CO. LOGGED BY L.ESTEL

SECTION \_\_\_\_\_ LOCATION KINLOU ROAD, SEC., TWP., RNG., PM

COUNTY MARION CORING METHOD Water

STRUCT. NO. 061-0067 CORING BARREL TYPE & SIZE NQ2WL  
 Station 435+45  
 BORING NO. 1-S Core Diameter 2 in  
 Station 435+81 Top of Rock Elev. 505.62 ft  
 Offset 9.0ft LEFT Begin Core Elev. 505.62 ft  
 Ground Surface Elev. 530.72 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
500.62 -30	1-S	96	77	35	Hard Dry, Grey CLAYSHALE
495.72 -35	1-S	100	93	26	Hard Dry, Grey CLAYSHALE to Grey LIMESTONE

Color pictures of the cores Yes, On File  
 Cores will be stored for examination until 5 Years after Construction  
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)  
 RQD is the ratio of the total length of sound core specimens >4" to total length of core run BBS, form 138 (Rev. 8-99)



To: Tom Weck Attn: Ve'Necy Pearman-Green  
 From: Heather Shoup By: Kurt Schmuck (BMPR)  
 Subject: Rock Core Compression Testing  
 Date: September 3, 2019

County: Marion Unconfined Compressive Strength of Intact Rock Cores  
 Route: FAS-2703 KinLou Road ASTM D-7012 Method C  
 SN: 061-0067  
 Loc. over tributary to Skillet Fork Creek All samples trimmed to maintain a length-to-diameter ratio of 2.0 to 2.5. ASTM D-4543  
 Section: n/a  
 Job #: n/a  
 CN: n/a  
 Date: 8/29/2019  
 Stress Rate @ 20 psi/sec. (unless otherwise noted)  
 \* Denotes a Strain Rate of 1% per minute for soft materials.

Boring: Bor. 1-S  
 Station: 435+81 9 ft. Lt

Sample	Depth (ft.)	Dia. (in.)	Area (in <sup>2</sup> )	Length (in.)	Weight (grams)	As Tested Moist. %	Unit Weight (lbs / ft <sup>3</sup> )		Load (lbs)	Compressive Strength Data			Deflec. (in.)
							Wet	Dry		Stress (psi)	(tsf)	(ksf)	
#2*	28	1.755	2.419	4.035	375.9	7.83	146.7	136.1	5100	2108	151.8	303.6	n/a
#5*	31	1.893	2.814	4.264	383.4	12.00	121.7	108.7	1800	640	46.0	92.1	n/a
#3	32	1.766	2.449	3.904	392.9	0.93	156.5	155.1	14520	5928	426.8	853.6	n/a
#4	34	1.744	2.389	3.929	364.5	1.59	147.9	145.6	9600	4019	289.3	578.7	n/a

The boring logs represent point information. Presentation of this information in no way implies that subsurface conditions are the same at locations other than the exact location of the boring.

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

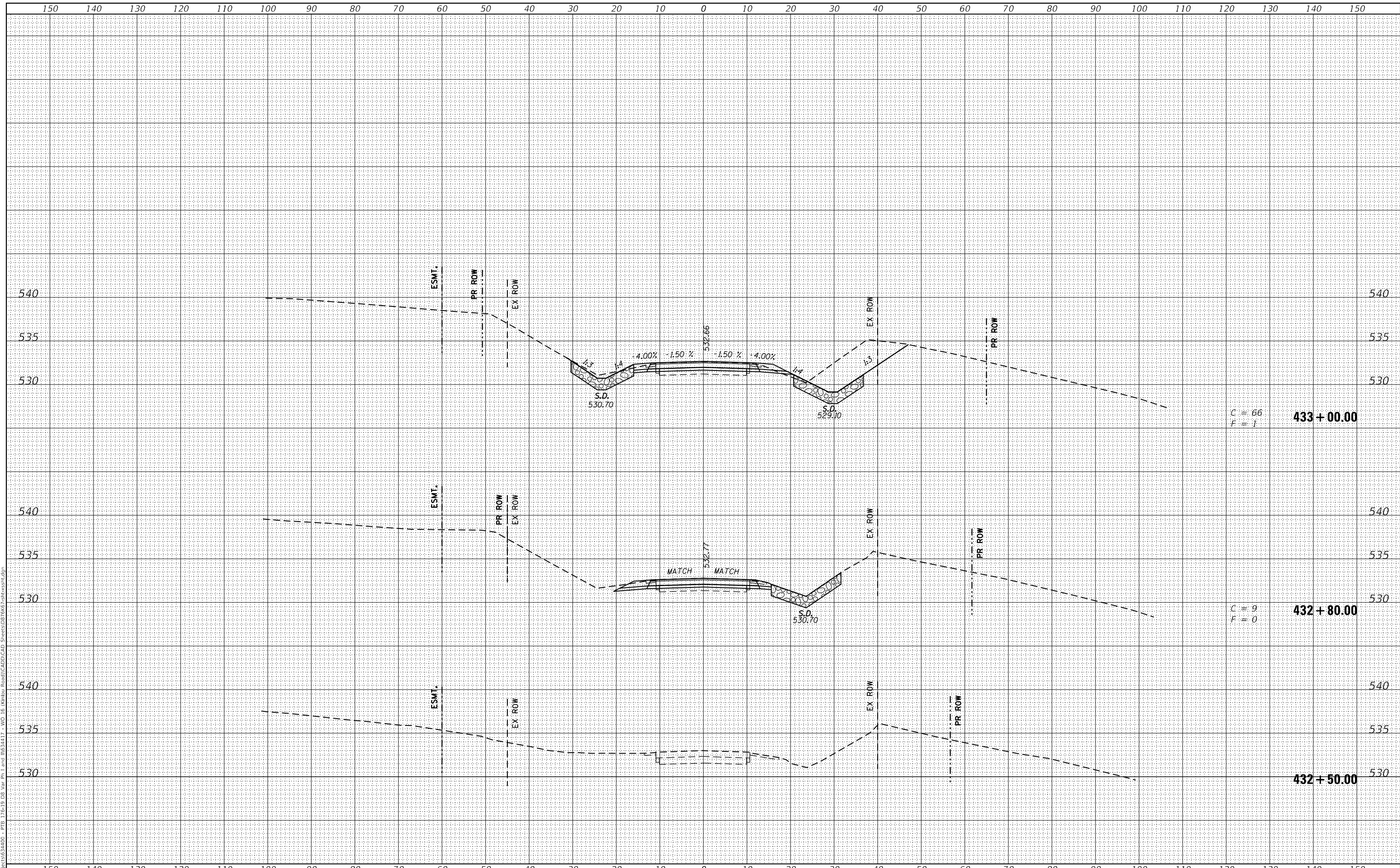
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 SHEET 6 OF 6 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	34	28
CONTRACT NO. 76K67				
ILLINOIS FED. AID PROJECT				

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TEMPLATE	
AREA	
REVISION	
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DATE	
BY	
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AREA	
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 F = 1  
**433 + 00.00**

C = 9  
 F = 0  
**432 + 80.00**

**432 + 50.00**



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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

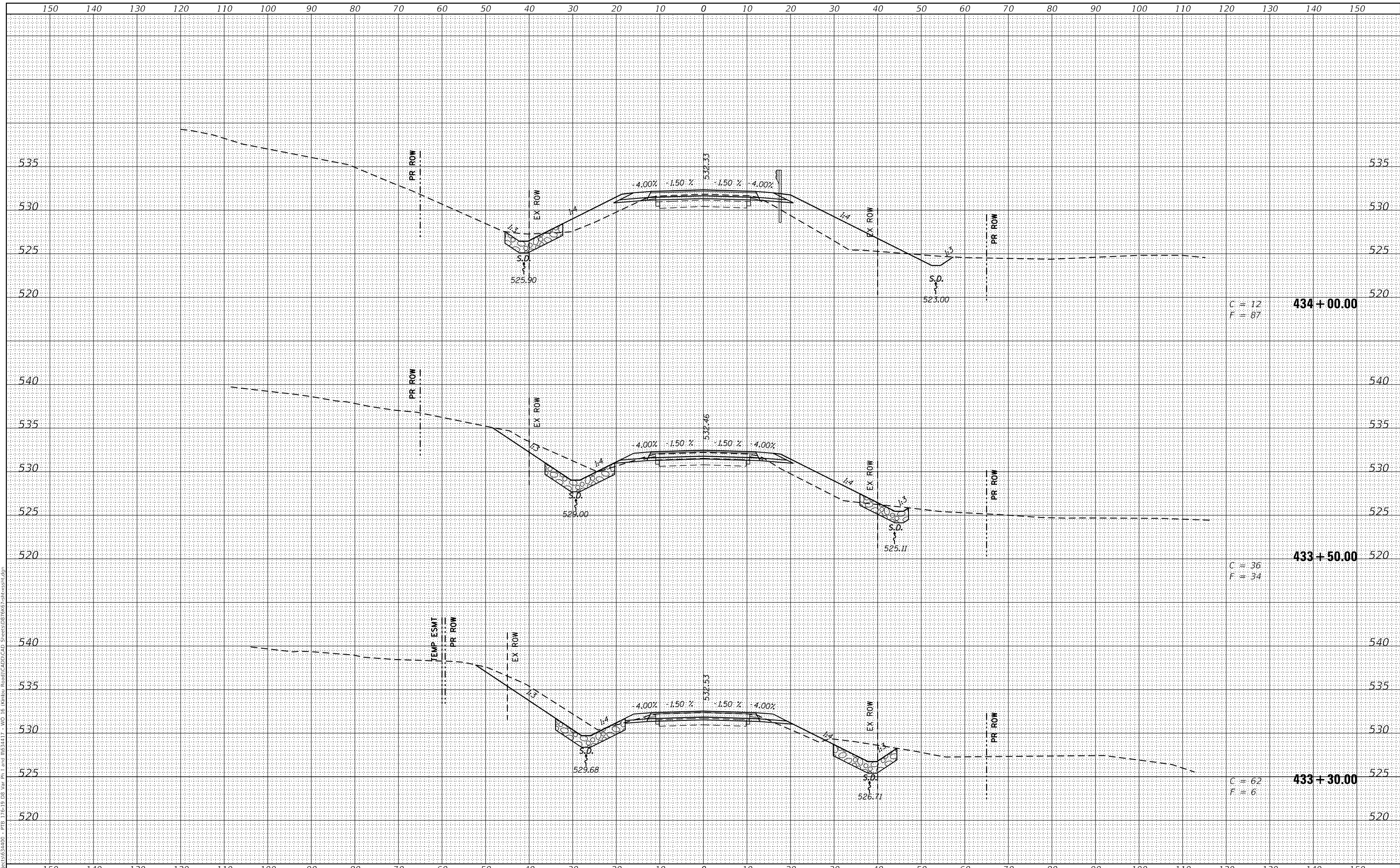
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 KINLOU ROAD OVER TRIBUTARY TO SKILLET FORK CREEK  
 SCALE: 1"=10'  
 SHEET 1 OF 5 SHEETS  
 STA. 432+50.00 TO STA. 433+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	33	29
CONTRACT NO. 76K67				
ILLINOIS FED. AID PROJECT				

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REVISED	

DATE	
BY	
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TEMPLATE	
NOTE BOOK	
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REVISED	

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

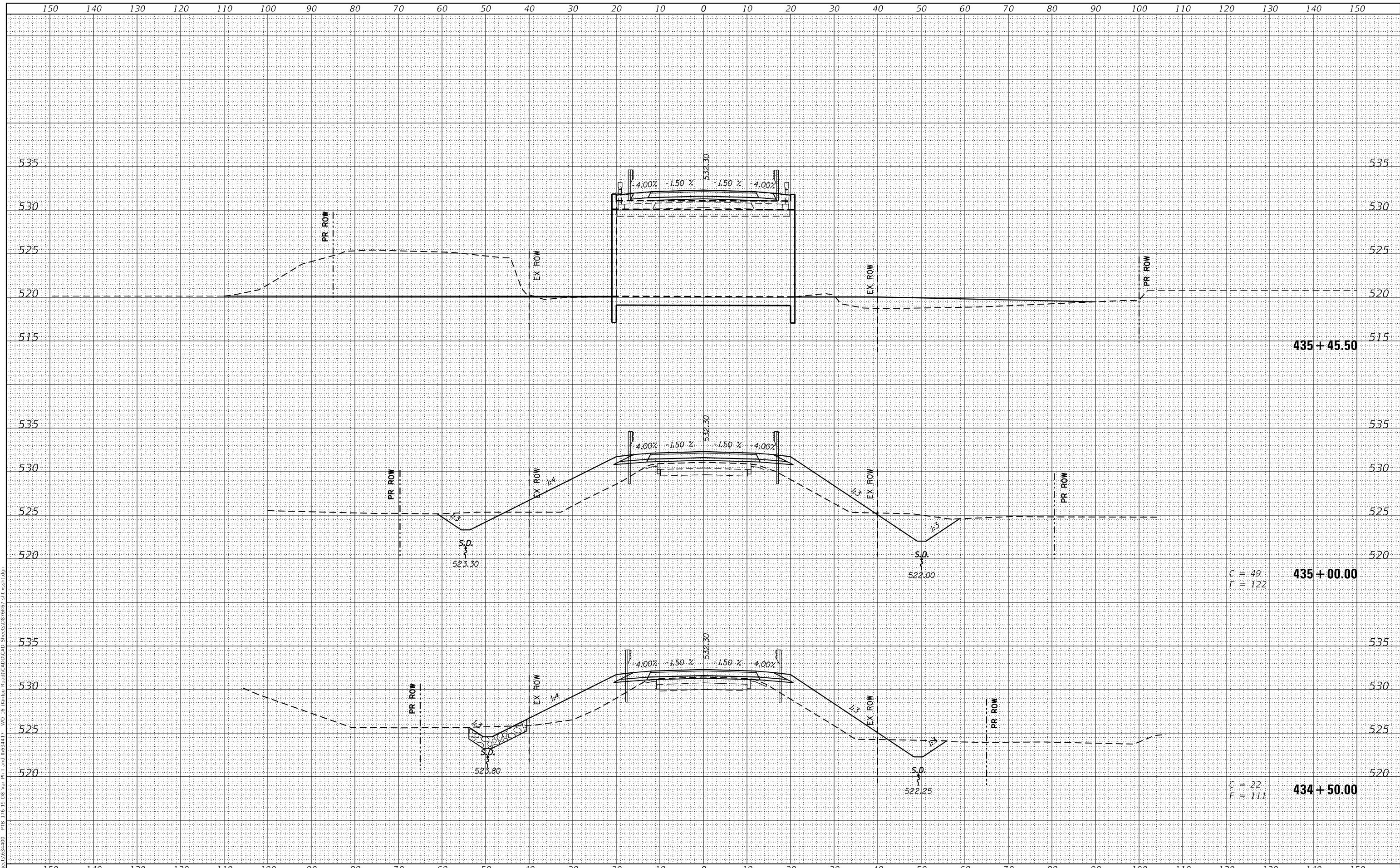
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**KINLOU ROAD OVER TRIBUTARY TO SKILLET FORK CREEK**  
 SCALE: 1"=10'    SHEET 2 OF 5 SHEETS    STA. 433+30.00 TO STA. 434+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	33	30
CONTRACT NO. 76K67				
ILLINOIS FED. AID PROJECT				

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PLOTTED	
TEMPLATE	
NOTE BOOK	
AREA	
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NOTE BOOK	
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REVISION	

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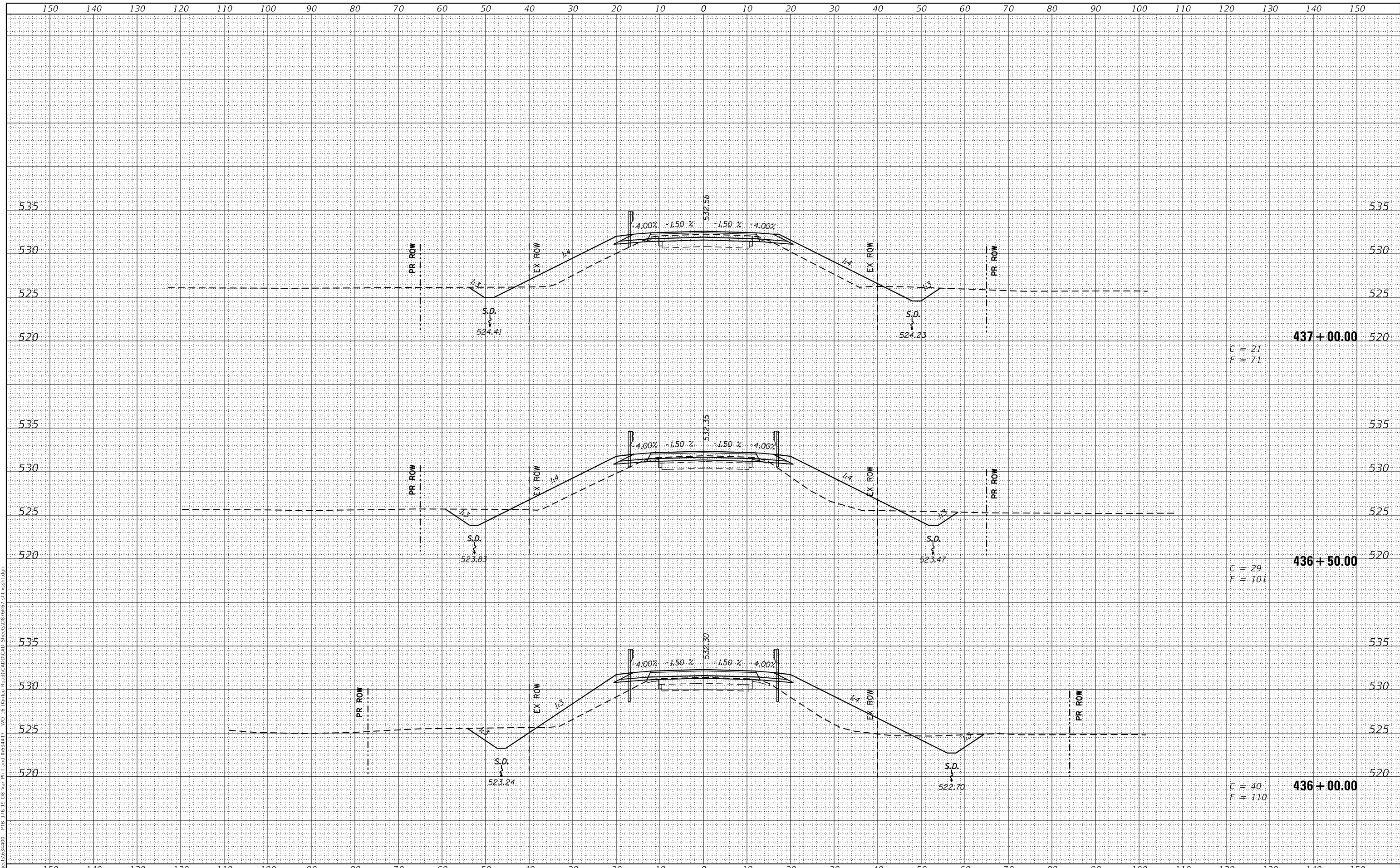
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 SCALE: 1"=10'  
 SHEET 3 OF 5 SHEETS  
 STA. 434+50.00 TO STA. 435+45.50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	33	31
CONTRACT NO. 76K67				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SHRIVED	
PLOTTED	
TEMPLATE	
AREA	
REVISION	
NO.	

DATE	
BY	
SHRIVED	
PLOTTED	
TEMPLATE	
AREA	
REVISION	
NO.	

MODEL: S:\06\ILLINOIS\PROJECTS\3400 - P15-15 D8 Var P1 and 11634117 - W016 Kinlou Road\CADD\CAD Sheets\091607\sheet-ss1.dwg  
 FILE NAME: P:\PROJECTS\3400 - P15-15 D8 Var P1 and 11634117 - W016 Kinlou Road\CADD\CAD Sheets\091607\sheet-ss1.dwg



USER NAME = default
PLOT SCALE = 20.0000 ' / in.
PLOT DATE = 7/23/2020

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS	
KINLOU ROAD OVER TRIBUTARY TO SKILLET FORK CREEK	
SCALE: 1"=10'	SHEET 4 OF 5 SHEETS
STA. 436+00.00	TO STA. 437+00.00

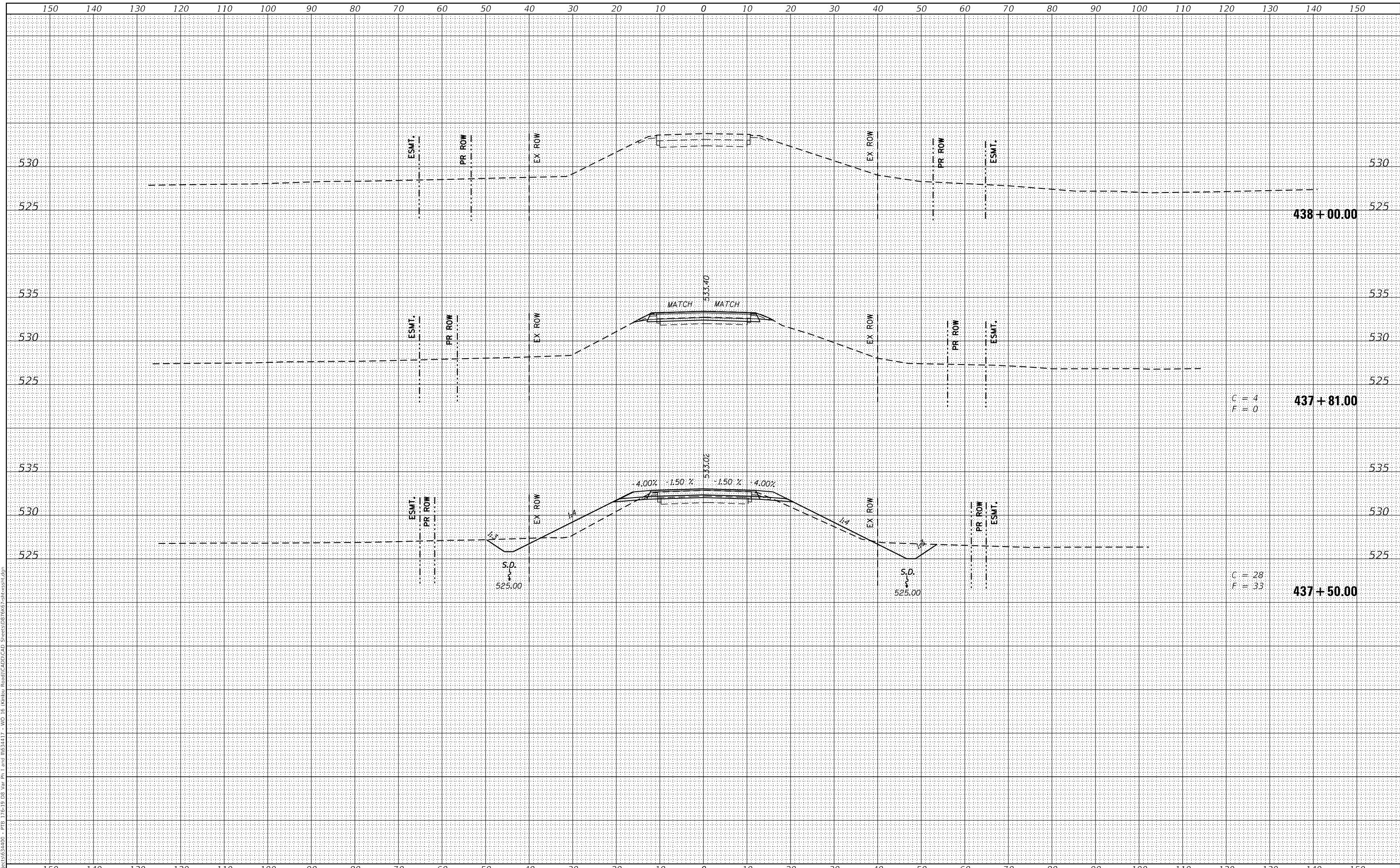
F.A.S. RTE. 2703	SECTION 15BR-1	COUNTY MARION	TOTAL SHEETS 33	SHEET NO. 32
CONTRACT NO. 76K67				
ILLINOIS FED. AID PROJECT				



DATE	
BY	
SHRIVED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREA	
REVISION	
NO.	

DATE	
BY	
SHRIVED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREA	
REVISION	
NO.	

MODEL: S:\DML\MAMES  
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USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/23/2020	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 KINLOU ROAD OVER TRIBUTARY TO SKILLET FORK CREEK  
 SCALE: 1"=10' SHEET 5 OF 5 SHEETS STA. 437+50.00 TO STA. 438+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2703	15BR-1	MARION	33	33
CONTRACT NO. 76K67				
ILLINOIS FED. AID PROJECT				