

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
731&1736	02-00082-00-FP	MACOUPIN	95	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 93732		

FOR INDEX OF SHEETS AND LIST OF ILLINOIS DOT STANDARDS SEE SHEET NO. 2

HIGHWAY SAFETY IMPROVEMENT PROGRAM

FAS 731 & 1736 (CH 13, CH 24, CH 37)

SECTION 02-00082-00-FP

MACOUPIN COUNTY

PROJECT VGQJ(545)

JOB NUMBER C-96-213-11

ELIMINATION OF WYE INTERSECTIONS AND RECONSTRUCTION OF ROADWAYS BY RECLAIMING EXISTING AGGREGATE BASE MATERIAL, SHAPING, REPLACING AND PROCESSING AS SOIL-CEMENT MIXTURE WITH ADDITIONAL AGGREGATE BASE AND BITUMINOUS SURFACE TREATMENT

DESIGN DESIGNATION

NINE MILE LANE
CLASSIFICATION: MAJOR COLLECTOR
DESIGN SPEED: 40 MPH
ADT: 250 (2016)/550 (2016)

OTTEN ROAD
CLASSIFICATION: MINOR COLLECTOR
DESIGN SPEED: 40 MPH
ADT: 325 (2016)

LAUNER ROAD
CLASSIFICATION: LOCAL ROAD
DESIGN SPEED: 30 MPH
ADT: 25 (2012)

CAMPBELL ROAD
CLASSIFICATION: MINOR COLLECTOR
DESIGN SPEED: 40 MPH
ADT: 275 (2016)

UTILITY CONTACTS:

UTILITY TYPE:

WATER
SOUTH PALMYRA
RURAL WATER DIST.
(217) 245-4146
ATTN: JAMIE HEADEN

UTILITY TYPE:

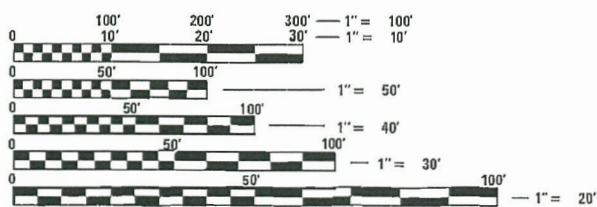
ELECTRIC
RURAL ELECTRIC CONV. COOP.
(217) 438-6197
ATTN: THOMAS G. JONES

UTILITY TYPE:

TELEPHONE
FRONTIER COMMUNICATIONS
(402) 250-1095
ATTN: BILL DANIEL

UTILITY TYPE:

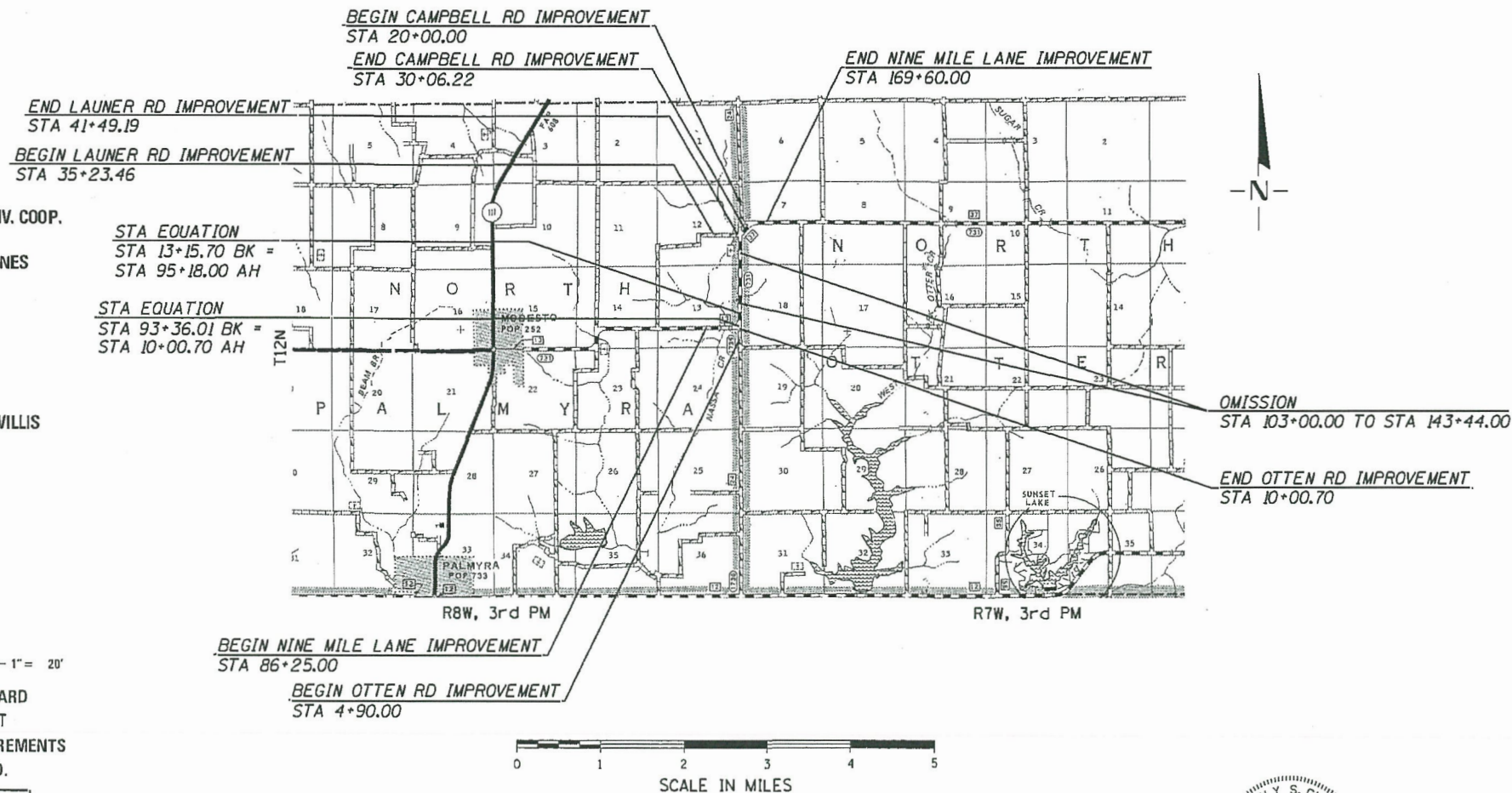
TELEPHONE
VERIZON NORTH, INC.
(309) 454-1470
ATTN: MARY RUTH WILLIS



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

CONTRACT NO. 93732



LENGTH OF SECTION		
Nine Mile Lane	4,424.01 FEET	0.838 MILES
Otten Road	510.70 FEET	0.097 MILES
Launer Road	625.73 FEET	0.119 MILES
Campbell Road	1,006.22 FEET	0.191 MILES
NET LENGTH OF SECTION	6,566.66 FEET	1.245 MILES
OMISSIONS	4,044.00 FEET	0.766 MILES
GROSS LENGTH OF SECTION	10,610.66 FEET	2.011 MILES



Kimberly S. Cummins 12-1-19

ILLINOIS PROFESSIONAL NO. 56816
(Expires 11/30/21)



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED November 25, 2019
Thomas A Reinhart
MACOUPIN COUNTY ENGINEER

PASSED 12-19, 2019
Chris J. Tobell
DISTRICT 6 ENGINEER OF LOCAL ROADS AND STREETS

RELEASED FOR BID 12-19, 2019
BASED ON LIMITED REVIEW
Jeffrey P. Hymowitz
REGION FOUR ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

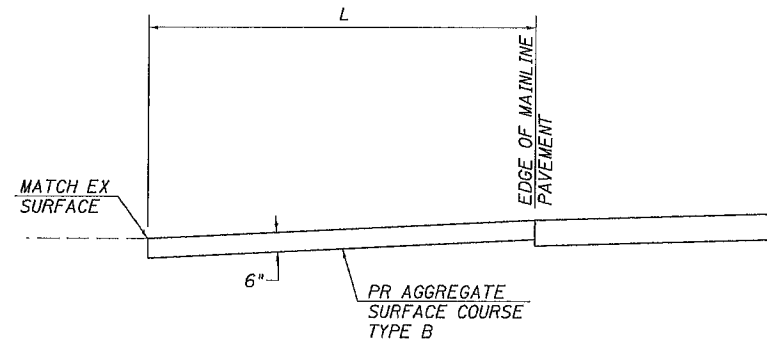
SHEET NO	TITLE
1	COVER SHEET
2	INDEX OF SHEETS, LIST OF STANDARDS, GENERAL NOTES, ENTRANCE DETAILS AND MAILBOX TURNOUT DETAILS
3-6	SUMMARY OF QUANTITIES
7-10	TYPICAL CROSS SECTIONS
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39	GP&E ALUMINUM BOX CULVERT (24'-8" x 10'-6")
40-95	CROSS SECTIONS

ILLINOIS DOT HIGHWAY STANDARDS

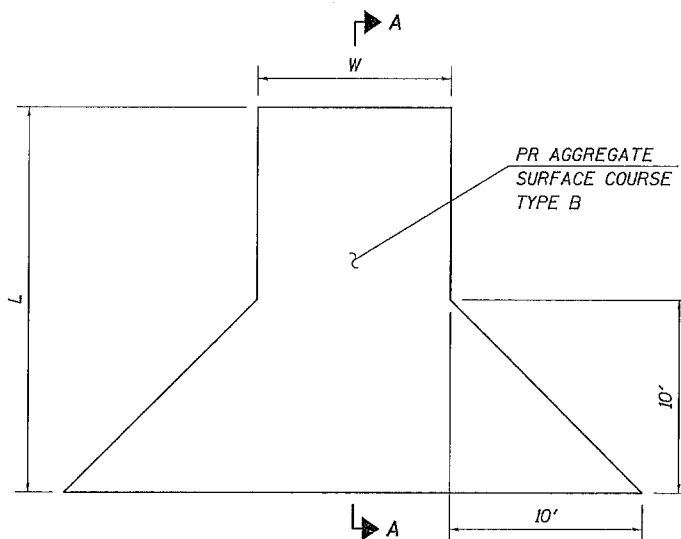
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-04	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542306-03	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
542401-03	METAL FLARED END SECTION FOR PIPE CULVERTS
602301-04	INLET - TYPE A
602306-03	INLET - TYPE B
604036-03	GRATE TYPE B
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24' (600 MM) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

APPLICATION RATES USED IN QUANTITY CALCULATIONS

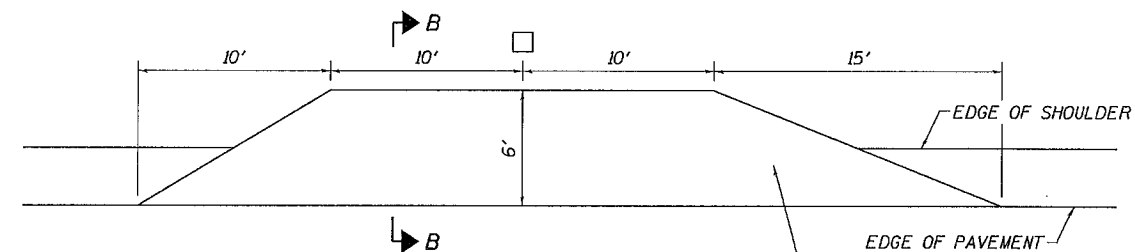
Granular Materials	2.05 TONS/CU YD
Bituminous Materials (Prime Coat)	0.25 LBS/SQ FT (7.90 LBS/GAL)
Bituminous Materials (Cover Coat)	0.45 GAL/SQ YD (8.40 LBS/GAL)
Bituminous Materials (Seal Coat)	0.40 GAL/SQ YD (8.40 LBS/GAL)
Stone Riprap	1.5 TONS/CU YD



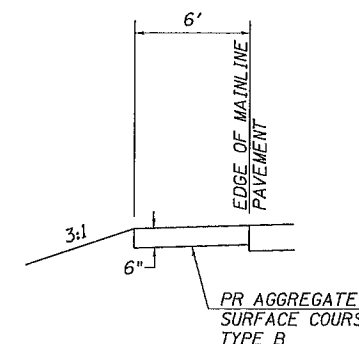
SECTION A-A



ENTRANCE PLAN



MAILBOX TURNOUT PLAN



SECTION B-B

GENERAL NOTES

- THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016, THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, AND THE SPECIAL PROVISIONS INCLUDED IN THESE PLANS.
- ANY REFERENCE TO THE STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE EDITION, AS INDICATED BY THE SUB-NUMBER, LISTED IN THE INDEX OF SHEETS, OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE ANY SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- A USCS SURVEY MARKER IS LOCATED ON THE TOP OF THE EAST HEADWALL OF THE STRUCTURE TO BE REMOVED AT LOCATION No. 4
- PAVEMENT MARKINGS WILL BE PLACED BY OTHERS
- A2 SURFACE TREATMENT SHALL BE CONSTRUCTED THE FULL PAVEMENT WIDTH IN ONE OPERATION WITH NO OVERLAPS.
- MATERIAL FOR PIPE CULVERTS CLASS D SHALL BE REINFORCED CONCRETE CULVERT OR ALUMINIZED STEEL TYPE 2 CORRUGATED PIPE. NO OTHER MATERIAL WILL BE ACCEPTED.
- POROUS GRANULAR MATERIAL PLACED UNDER PRECAST CONCRETE BOX CULVERTS WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE COST FOR THE PRECAST CONCRETE BOX CULVERT.
- THE CONTRACTOR SHALL REMOVE AND REERECT THE FOLLOWING 911 SIGNS AND POSTS:
 40+80 RT. +/- LAUNER RELOCATE TO STATION 151+26 RT. +/- ON NINE MILE RD
 10+64 RT. +/- OTTEN RELOCATE TO STATION 10+00 RT. +/- ON NINE MILE RD
 26+30 CL +/- CAMPBELL RELOCATE TO STATION 155+80 RT. +/- ON NINE MILE RD
 THIS WORK WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

- THE CONTRACTOR SHALL REMOVE THE FOLLOWING SIGNS AND SIGN POSTS:
 NINE MILE LANE
 85+40 +/- Lt. CURVE LEFT ADVISORY 35 MPH
 85+40 +/- Rt. CURVE LEFT ADVISORY 35 MPH
 88+00 Lt. +/- NARROW BRIDGE
 91+30 Lt. +/- STOP SIGN & POST
 92+65 Rt. +/- STOP SIGN
 12+00 Rt. +/- STOP SIGN & POST
 100+00 Lt. +/- CURVE RIGHT ADVISORY 35 MPH
 100+00 Rt. +/- CURVE RIGHT ADVISORY 35 MPH
 101+00 Lt. +/- SB TRAFFIC MUST YIELD SIGN
 105+26 Lt. +/- HIDDEN INTERSECTION SLOW
 146+00 Rt. +/- CURVE RIGHT SIGN
 161+60 Lt. +/- STOP SIGN
 162+60 Lt. 911 SIGN AND POST
 168+00 Lt. +/- CURVE LEFT SIGN
 OTTEN RD
 6+70 Rt. +/- STOP AHEAD & POST
 10+64 Rt. +/- 911 SIGN POST
 LAUNER RD
 40+80 Lt. +/- STOP SIGN
 40+80 Rt. +/- 911 SIGN POST
 CAMPBELL RD
 20+30 Rt. +/- STOP AHEAD SIGN
 21+10 Lt. +/- NARROW SHOULDERS ADVISORY 35 MPH
 25+70 Rt. +/- STOP SIGN
 26+30 Rt. +/- LARGE DOUBLE ARROW
 26+30 CL +/- 911 SIGN POST
 ABANDONED ROADWAY
 49+00 Lt. +/- STOP SIGN
 59+00 Lt. +/- LEFT TURN SIGN
 59+10 Rt. +/- STOP AHEAD SIGN

SIGNS AND POST SHALL BE STOCKPILED AT A LOCATION DESIGNATED BY THE ENGINEER AND SHALL REMAIN THE PROPERTY OF MACOUPIN COUNTY. ALL 911 POSTS SHALL BE RE-ERECTED. THIS WORK WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

COMMITMENTS

NONE

SUMMARY OF QUANTITIES				
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 0004
20200100	EARTH EXCAVATION	CU YD	32,680	32,680
20800150	TRENCH BACKFILL	CU YD	526	526
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	961	961
28000305	TEMPORARY DITCH CHECKS	FOOT	370	370
28000400	PERIMETER EROSION BARRIER	FOOT	1,210	1,210
28000500	INLET AND PIPE PROTECTION	EACH	16	16
35100100	AGGREGATE BASE COURSE, TYPE A	TON	6,288	6,288
* 35200420	PROCESSING SOIL-CEMENT BASE COURSE 12"	SQ YD	14,310	14,310
35200500	CEMENT	100 WT	14,310	14,310
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	389	389
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	75	75
40300200	BITUMINOUS MATERIALS (PRIME COAT)	TON	16	16
* 40300400	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	TON	57	57
40300500	COVER COAT AGGREGATE	TON	202	202

* SEE SPECIAL PROVISIONS
 Δ SPECIALTY ITEMS



JOB = 2247
 FILE NAME = 2247500.dgn
 PLOT SCALE = 20.0000' / IN.
 PLOT DATE = 1/10/2020
 DESIGNED - NAK
 DRAWN - TJD
 CHECKED - NAK
 DATE - 2/17/2011
 REVISED -
 REVISED -
 REVISED -
 REVISED -

**MACOUPIN COUNTY
 FAS 731 & 1736 IMPROVEMENTS**

SUMMARY OF QUANTITIES

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
131A1736	02-00082-00-FP	MACOUPIN	95	3
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 93732	

SUMMARY OF QUANTITIES					
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				0004	
40300600	SEAL COAT AGGREGATE	TON	202	202	
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	
50105220	PIPE CULVERT REMOVAL	FOOT	516	516	
51500100	NAME PLATES	EACH	1	1	
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2	
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	2	2	
54001003	BOX CULVERT END SECTIONS, CULVERT NO. 3	EACH	2	2	
54010603	PRECAST CONCRETE BOX CULVERTS 6' X 3'	FOOT	135	135	
54010804	PRECAST CONCRETE BOX CULVERTS 8' X 4'	FOOT	90	90	
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1	

* SEE SPECIAL PROVISIONS
 Δ SPECIALTY ITEMS



JOB = 2247
 FILE NAME = 2247500.dgn
 PLOT SCALE = 20.0000' / IN.
 PLOT DATE = 3/18/2019

DESIGNED - NAK
 DRAWN - TJD
 CHECKED - NAK
 DATE - 2/17/2011

REVISED -
 REVISED -
 REVISED -
 REVISED -

**MACOUPIN COUNTY
 FAS 731 & 1736 IMPROVEMENTS**

SUMMARY OF QUANTITIES

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.S. RTE. 731&1736	SECTION 02-00082-00-FP	COUNTY MACOUPIN	TOTAL SHEETS 95	SHEET NO. 4
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 93732	

SUMMARY OF QUANTITIES					
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 0004	
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	4	4	
54214521	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 36"	EACH	2	2	
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	96	96	
542A5491	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36"	FOOT	60	60	
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	458	458	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	910	910	
* 59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	30	30	
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1	1	
60240301	INLETS, TYPE B, TYPE 8 GRATE	EACH	2	2	
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
Δ 72000100	SIGN PANEL - TYPE 1	SQ FT	108	108	
Δ 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	350	350	
Δ D2001560	EVERGREEN, JUNIPERUS VIRGINIANA (EASTERN RED CEDAR), 5' HEIGHT, BALLED AND BURLAPPED	EACH	12	12	

* SEE SPECIAL PROVISIONS

Δ SPECIALTY ITEMS



JOB = 2247	DESIGNED - NAK	REVISED -
FILE NAME = 2247500.dgn	DRAWN - TJD	REVISED -
PLOT SCALE = 20.0000' / IN.	CHECKED - NAK	REVISED -
PLOT DATE = 3/18/2019	DATE - 2/17/2011	REVISED -

**MACOUPIN COUNTY
FAS 731 & 1736 IMPROVEMENTS**

SUMMARY OF QUANTITIES

SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
731&1736	02-00082-00-FP	MACOUPIN	95	5
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 93732	

SUMMARY OF QUANTITIES							
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				0004			
* X0326861	PULVERIZATION	SQ YD	15,741	15,741			
△ * X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	9.75	9.75			
* X2810808	STONE DUMPED RIPRAP, CLASS A4 (SPECIAL)	TON	884	884			
* X3112900	SUBBASE GRANULAR MATERIAL (SPECIAL)	CU YD	1,590	1,590			
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1			
* XX008517	ALUMINUM BOX CULVERT	EACH	1	1			
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1			
* Z0023602	GRANULAR CULVERT BACKFILL	CU YD	411	411			
# * Z0076600	TRAINEES	HOOR	1,500				
# * Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOOR	1,500				

* SEE SPECIAL PROVISIONS #0042
△ SPECIALTY ITEMS



JOB = 2247
FILE NAME = 2247S00.dgn
DRAWN - TJD
DESIGNED - NAK
PLOT SCALE = 20.0000' / 1" = 1/2000'
CHECKED - NAK
DATE - 2/17/2011
REVISOR -
REVISED -
REVISED -
REVISED -

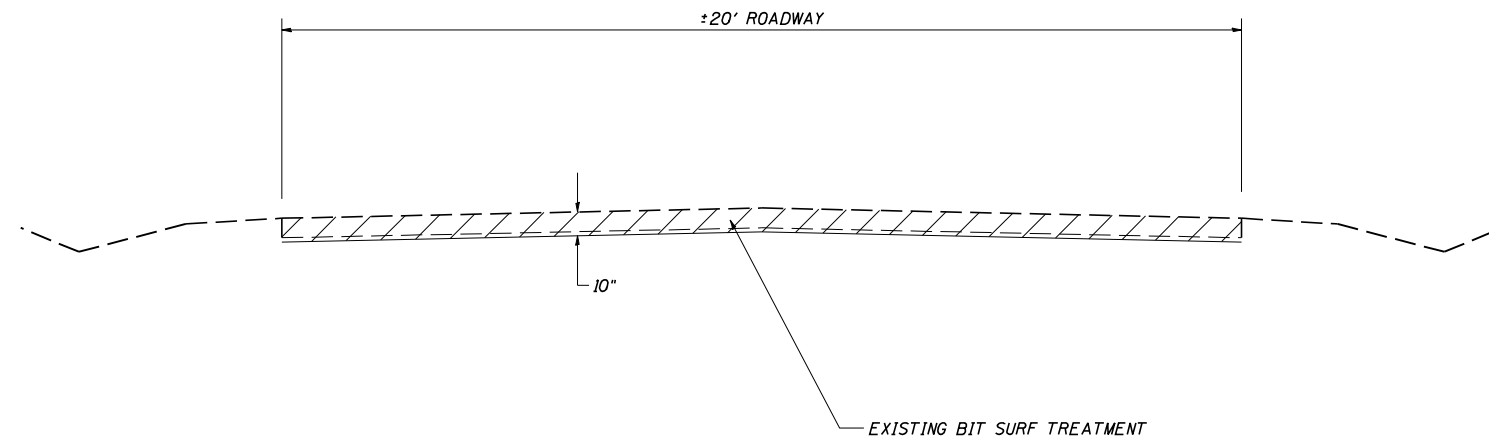
MACOUPIN COUNTY
FAS 731 & 1736 IMPROVEMENTS

SUMMARY OF QUANTITIES

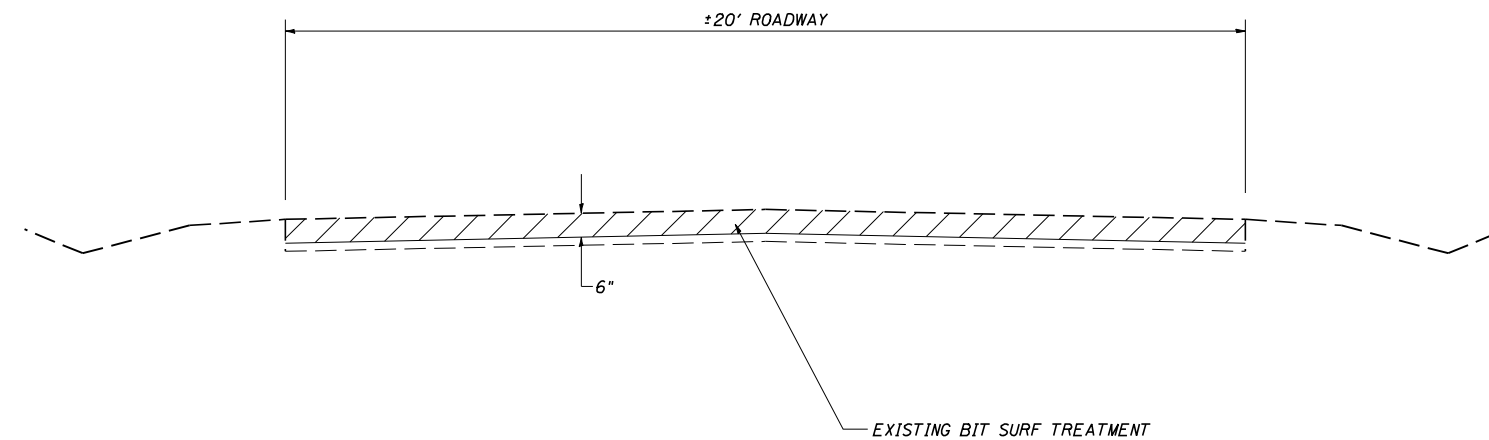
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.S. RTE. 731&1736	SECTION 02-00082-00-FP	COUNTY MACOUPIN	TOTAL SHEETS 95	SHEET NO. 6
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 93732	

CORE 11 (STA. 6+00, SOUTHBOUND)		
DEPTH, IN.	THICKNESS, IN.	DESCRIPTION
0.0" - 7.5"	7.5"	BITUMINOUS CONCRETE
7.5" - 8.5"	1.0"	INTERMIXED OIL AND SOIL
8.5" - 10.0"	1.5"+	BROWN/GRAY SILTY CLAY
10.0"		CORE TERMINATED AT -10.0"



EXISTING OTTEN ROAD TYPICAL CROSS SECTIONS
STA 4+90.00 TO STA 10+00.70



EXISTING NINE MILE LANE TYPICAL CROSS SECTION
STA 86+25.00 TO STA 96+36.01
STA 10+00.70 TO STA 13+15.70 (BK)
STA 95+18.00 (AH) TO STA 103+00.00
STA 144+00.00 TO STA 169+60.00

* SEE SEQUENCE OF OPERATIONS ON SHEET 9

CORE 1 (STA. 145+00, SOUTHBOUND)		
DEPTH, IN.	THICKNESS, IN.	DESCRIPTION
0.0" - 3.0"	3.0"	SEAL COAT
3.0" - 10.5"	7.5"	INTERMIXED OIL, SOIL, GRAVEL
10.5" - 11.5"	1.0"+	GRAY SILTY CLAY
11.5"		CORE TERMINATED AT -11.5"

CORE 5 (STA. 155+00, SOUTHBOUND)		
DEPTH, IN.	THICKNESS, IN.	DESCRIPTION
0.0" - 9.0"	9.0"	SEAL COAT
9.0" - 10.0"	1.0"+	DARK GRAY SILTY CLAY
10.0"		CORE TERMINATED AT -10.0"

CORE 9 (STA. 169+00, WESTBOUND)		
DEPTH, IN.	THICKNESS, IN.	DESCRIPTION
0.0" - 9.0"	9.0"	SEAL COAT (SOME SOIL)
9.0" - 10.0"	1.0"	DARK GRAY SILTY CLAY
10.0"		CORE TERMINATED AT -10.0"

CORE 14 (STA. 91+20, EASTBOUND)		
DEPTH, IN.	THICKNESS, IN.	DESCRIPTION
0.0" - 5.0"	5.0"	SEAL COAT
5.0" - 8.0"	3.0"	INTERMIXED OIL AND SOIL
8.0" - 10.0"	2.0"+	BROWN/GRAY SILTY CLAY
10.0"		CORE TERMINATED AT -10.0"

CORE 2 (STA. 145+00, NORTHBOUND)		
DEPTH, IN.	THICKNESS, IN.	DESCRIPTION
0.0" - 8.0"	10"	SEAL COAT (SOME SOIL AT 4")
8.0" - 11.0"	3.0"	INTERMIXED OIL AND SOIL
11.0" - 14.0"	3.0"+	GRAY SILTY CLAY
14.0"		CORE TERMINATED AT -14.0"

CORE 6 (STA. 160+00, EASTBOUND)		
DEPTH, IN.	THICKNESS, IN.	DESCRIPTION
0.0" - 4.5"	4.5"	SEAL COAT
4.5" - 9.5"	5.0"	INTERMIXED OIL AND SOIL
9.5" - 10.5"	1.5"+	GRAY SILTY CLAY
10.5"		CORE TERMINATED AT -10.5"

CORE 10 (STA. 169+00, EASTBOUND)		
DEPTH, IN.	THICKNESS, IN.	DESCRIPTION
0.0" - 8.0"	8.0"	SEAL COAT (SOME SOIL)
8.0" - 9.0"	1.0"	INTERMIXED OIL AND SOIL
9.0" - 10.0"	1.0"+	DARK GRAY SILTY CLAY
10.0"		CORE TERMINATED AT -10.0"

CORE 15 (STA. 87+00, WESTBOUND)		
DEPTH, IN.	THICKNESS, IN.	DESCRIPTION
0.0" - 9.0"	9.0"	SEAL COAT
9.0" - 11.0"	2.0"	DARK GRAY SILTY CLAY
11.0"		CORE TERMINATED AT -11.0"

CORE 3 (STA. 147+90, SOUTHBOUND)		
DEPTH, IN.	THICKNESS, IN.	DESCRIPTION
0.0" - 4.0"	4.0"	SEAL COAT
4.0" - 7.25"	3.25"	INTERMIXED OIL, SOIL, GRAVEL
7.25" - 11.0"	3.75"+	GRAY SILTY CLAY
11.0"		CORE TERMINATED AT -11.0"

CORE 7 (STA. 166+00, WESTBOUND)		
DEPTH, IN.	THICKNESS, IN.	DESCRIPTION
0.0" - 8.0"	8.0"	SEAL COAT
8.0" - 9.0"	1.0"	INTERMIXED OIL AND SOIL
9.0" - 10.0"	1.0"+	GRAY SILTY CLAY
10.0"		CORE TERMINATED AT -10.0"

CORE 12 (STA. 12+00, SOUTHBOUND)		
DEPTH, IN.	THICKNESS, IN.	DESCRIPTION
0.0" - 8.5"	8.5"	SEAL COAT
8.5" - 9.5"	1.0"	INTERMIXED OIL AND SOIL
9.5" - 11.0"	1.5"+	GRAY SILTY CLAY
11.0"		CORE TERMINATED AT -11.0"

CORE 4 (STA. 147+90, NORTHBOUND)		
DEPTH, IN.	THICKNESS, IN.	DESCRIPTION
0.0" - 7.5"	7.5"	SEAL COAT (SOME SOIL)
7.5" - 9.0"	1.5"	INTERMIXED OIL AND SOIL
9.0" - 10.0"	1.0"+	GRAY SILTY CLAY
10.0"		CORE TERMINATED AT -10.0"

CORE 8 (STA. 166+00, EASTBOUND)		
DEPTH, IN.	THICKNESS, IN.	DESCRIPTION
0.0" - 8.0"	8.0"	SEAL COAT
8.0" - 9.0"	1.0"	INTERMIXED OIL AND SOIL
9.0" - 10.0"	1.0"+	DARK GRAY SILTY CLAY
10.0"		CORE TERMINATED AT -10.03"

CORE 13 (STA. 101+25, NORTHBOUND)		
DEPTH, IN.	THICKNESS, IN.	DESCRIPTION
0.0" - 9.0"	9.0"	SEAL COAT
9.0" - 11.0"	2.0"	CRUSHED LIMESTONE
11.0" - 13.0"	2.0"+	BROWN SILTY CLAY
13.0"		CORE TERMINATED AT -13.0"



JOB = 2247
FILE NAME = 2247typ.dgn
PLOT SCALE = 4.0000' / 1"
PLOT DATE = 3/18/2019

DESIGNED - NAK
DRAWN - TJD
CHECKED - NAK
DATE - 1/25/2011

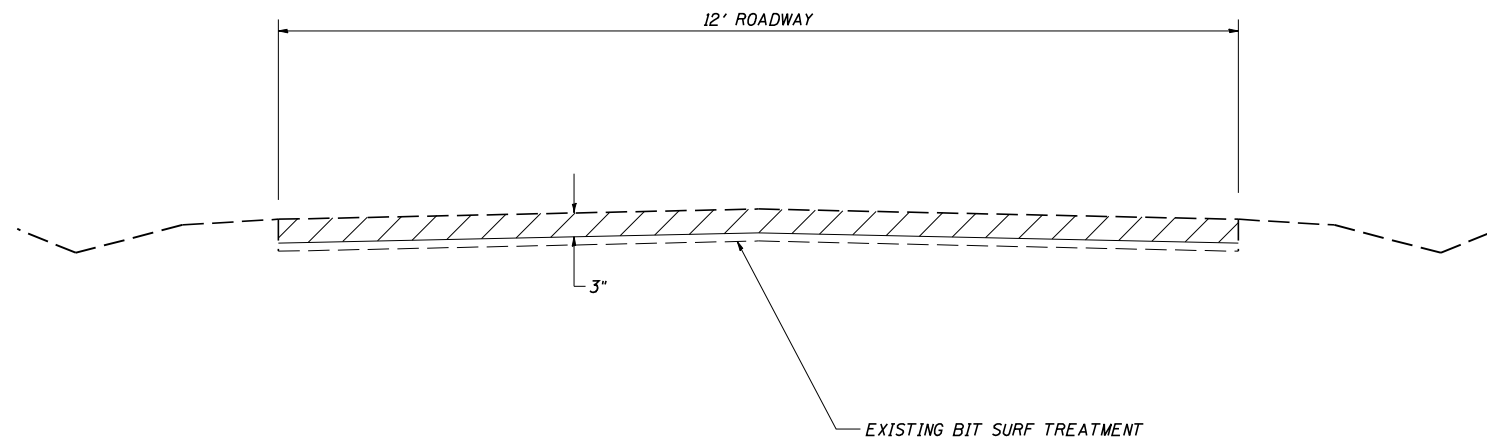
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**MACOUPIN COUNTY
FAS 731 & 1736 IMPROVEMENTS**

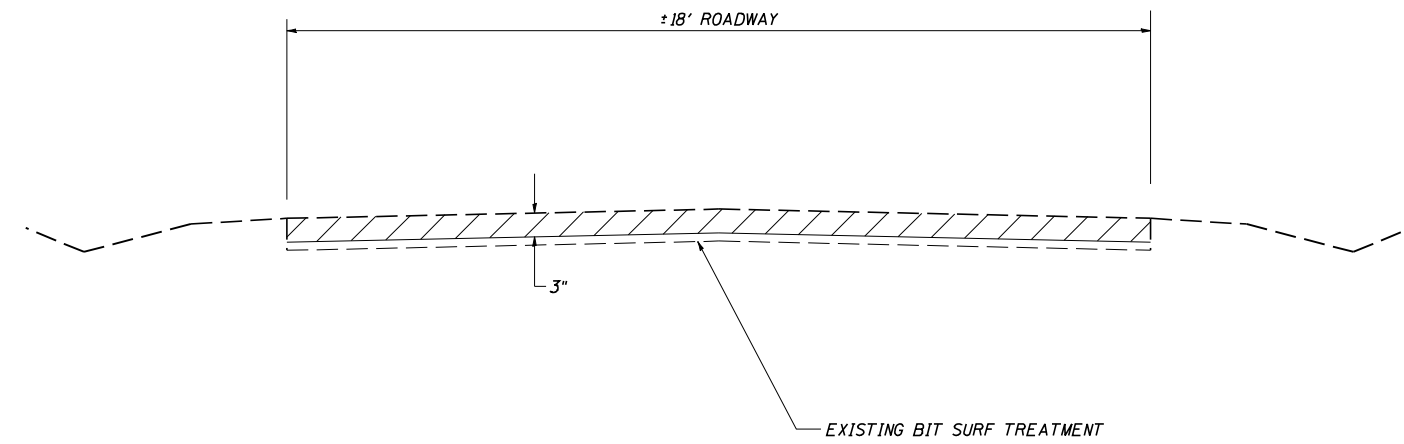
EXISTING TYPICAL CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. N/A TO STA. N/A

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
731&1736	02-00082-00-FP	MACOUPIN	95	7
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 93732	



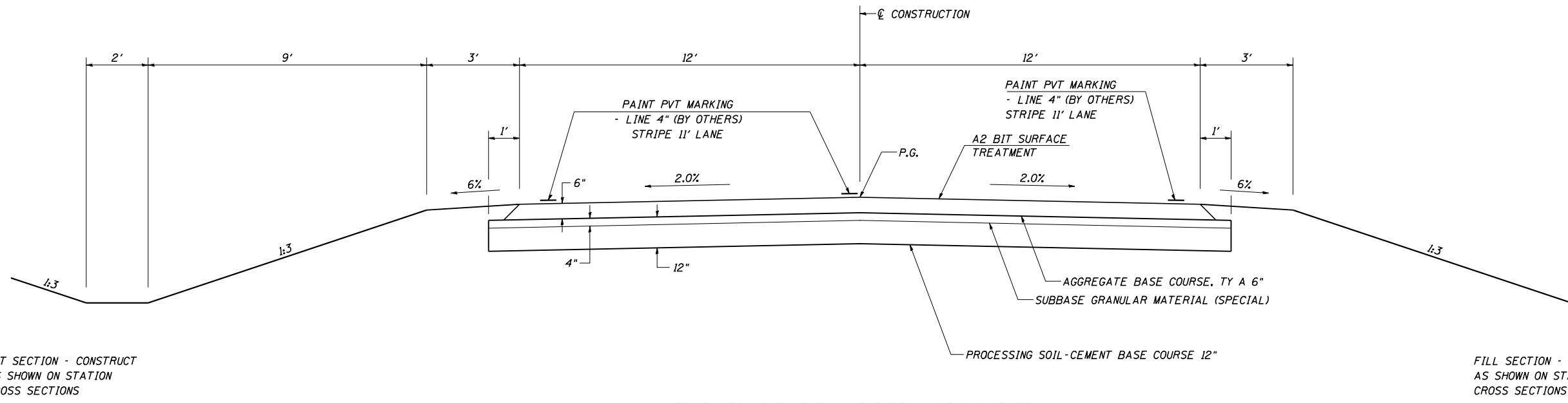
EXISTING LAUNER ROAD TYPICAL CROSS SECTION
 STA 35+23.46 TO STA 41+32.91



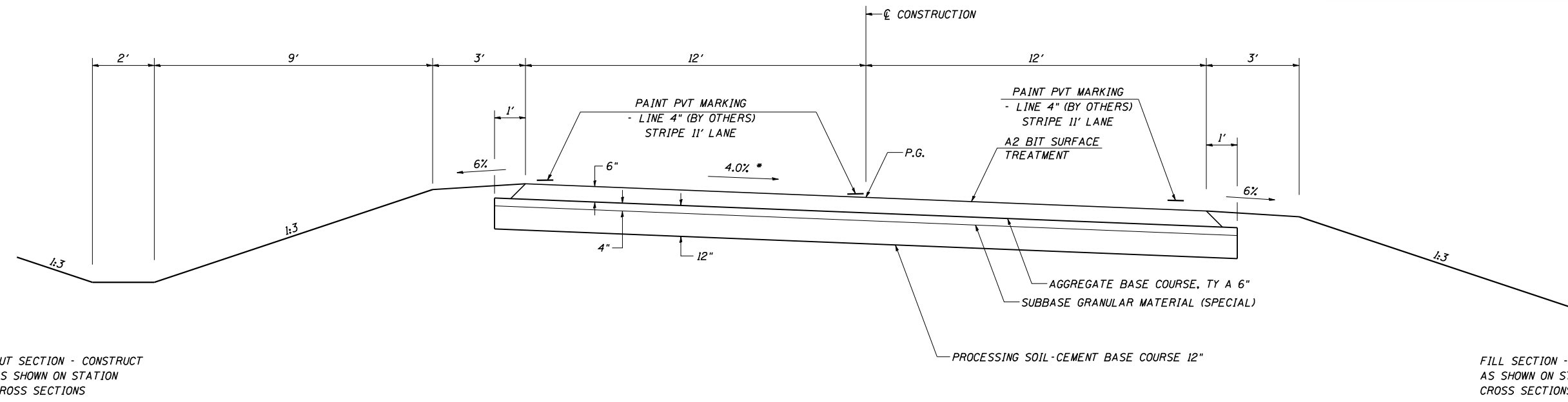
EXISTING CAMPBELL ROAD TYPICAL CROSS SECTION
 STA 24+00.00 TO STA 25+94.31

* SEE SEQUENCE OF OPERATIONS ON SHEET 9

CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2247	DESIGNED - NAK	REVISED -	MACOUPIN COUNTY FAS 731 & 1736 IMPROVEMENTS	EXISTING TYPICAL CROSS SECTIONS			F.A.S. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME = 2247.typ.dgn	DRAWN - TJD	REVISED -					731&1736	02-00082-00-FP	MACOUPIN	95	8
	PLOT SCALE = 4.0000' / IN.	CHECKED - NAK	REVISED -		SCALE: SHEET NO. OF SHEETS STA. N/A TO STA. N/A			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
	PLOT DATE = 3/18/2019	DATE - 1/25/2011	REVISED -					CONTRACT NO. 93732				

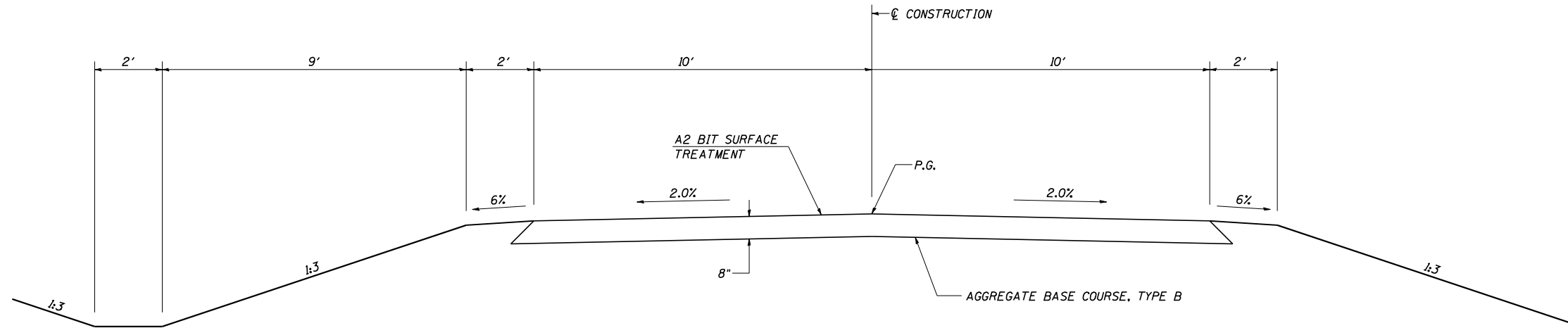


- SEQUENCE OF OPERATIONS**
1. SOIL-CEMENT MIX DESIGN TO BE DONE BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION. MIX DESIGN TO BE AVAILABLE NO LATER THAN SEPTEMBER 15, 2019.
 2. PULVERIZE EXISTING SEAL COAT SURFACE MATERIAL.
 3. CONSTRUCTION ROADWAY EMBANKMENT AND PREPARE SUBGRADE FOR SOIL-CEMENT BASE COURSE.
 4. INSTALL NEW CROSS ROAD CULVERTS.
 5. PLACE 4 INCH LAYER OF SUBBASE GRANULAR MATERIAL (SPECIAL) FOR THE ADD ROCK FOR SOIL-CEMENT BASE COURSE.
 6. PROCESS 12 INCH SOIL-CEMENT BASE COURSE.
 7. AFTER CURING APPLY A-2 SURFACE TREATMENT



* ATTAIN SUPERELEVATION - STA 147+16.30 TO STA 148+37.30
 REMOVE SUPERELEVATION - STA 164+92.08 TO STA 166+13.08

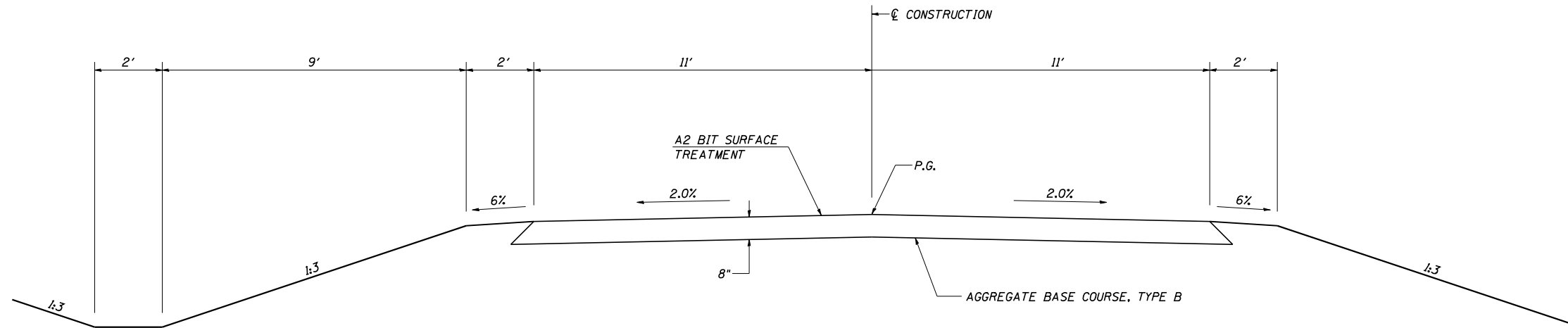
CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2247	DESIGNED - NAK	REVISED -	MACOUPIN COUNTY FAS 731 & 1736 IMPROVEMENTS	PROPOSED TYPICAL CROSS SECTIONS			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME = *FILES*	DRAWN - TJD	REVISED -					731&1736	02-00082-00-FP	MACOUPIN	95	9
	PLOT SCALE = *SCALE*	CHECKED - NAK	REVISED -					CONTRACT NO. 93732				
	PLOT DATE = *DATE*	DATE - 2/17/2011	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
SCALE:		SHEET NO. OF SHEETS		STA. N/A TO STA. N/A								



CUT SECTION - CONSTRUCT
AS SHOWN ON STATION
CROSS SECTIONS

FILL SECTION - CONSTRUCT
AS SHOWN ON STATION
CROSS SECTIONS

PROPOSED LAUNER ROAD TYPICAL CROSS SECTION
STA 35+23.46 TO STA 41+49.19



CUT SECTION - CONSTRUCT
AS SHOWN ON STATION
CROSS SECTIONS

FILL SECTION - CONSTRUCT
AS SHOWN ON STATION
CROSS SECTIONS

PROPOSED CAMPBELL ROAD TYPICAL CROSS SECTION
STA 24+00.00 TO STA 30+06.24

EARTHWORK

LOCATION	EARTH EXCAVATION CU YD	EXCAVATION ADJUSTED FOR SHRINKAGE CU YD	EMBANKMENT CU YD	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) CU YD
STA 86+50 TO STA 93+00	4,015	3,015	1,310	1,705
OTTEN ROAD (CH 24)/NINE MILE LANE (CH 37) - (COO2)				
STA 4+90 TO STA 103+00	10,500	7,875	2,480	5,395
NINE MILE LANE (CH 37 - C001)				
STA 143+44 TO STA 169+60	13,150	9,865	5,395	4,470
LAUNER RD (C004)				
STA 35+23 TO STA 41+00	745	560	1,635	-1,075
CAMPBELL RD (C003)				
STA 20+50 TO STA 29+50	1,025	770	2,090	-1,320
ABANDONED ROADWAY (C006)				
STA 48+50 TO STA 64+00	1,715	1,290	2,940	-1,650
DITCH (D008)				
STA 70+00 TO STA 71+10	875	660	10	650
CHANNEL (CH001)				
STA 1000+00 TO STA 1008+35	655	495	0	495
TOTAL	32,680	24,530	15,860	8,670

SIGNS

LOCATION	SIGN PANEL - TYPE 1 SQ FT	TELESCOPING STEEL SIGN SUPPORT FOOT	SIGN TYPE
NINE MILE LANE (CH 13)			
RT STA. 90+10	6.25	15.5	STOP AHEAD W3-1 (30X30)
RT STA. 92+65	6.25	15.5	STOP SIGN R1-1 (30X30)
OTTEN RD (CH 24)			
RT STA. 6+75	6.25	15.5	SIDEROAD SIGN W2-2L (30x30)
RT STA. 9+94	8.00	30.0	DOUBLE ARROW W1-7 (48X24)
NINE MILE LANE (CH 37)			
LT STA. 96+00	6.25	15.5	SIDEROAD SIGN W2-2R (30x30)
RT STA. 145+32	6.25	15.5	CURVE RIGHT W1-2R (30X30)
LT STA. 148+85	3.00	15.0	CHEVRON W1-8 (18X24)
LT STA. 150+85	3.00	15.0	CHEVRON W1-8 (18X24)
LT STA. 151+05	6.25	15.5	STOP SIGN R1-1 (30X30)
LT STA. 152+85	3.00	15.0	CHEVRON W1-8 (18X24)
LT STA. 154+85	3.00	15.0	CHEVRON W1-8 (18X24)
RT STA. 155+80	8.00	30.0	DOUBLE ARROW W1-7 (48X24)
LT STA. 156+85	3.00	15.0	CHEVRON W1-8 (18X24)
LT STA. 158+85	3.00	15.0	CHEVRON W1-8 (18X24)
LT STA. 160+85	3.00	15.0	CHEVRON W1-8 (18X24)
LT STA. 162+85	3.00	15.0	CHEVRON W1-8 (18X24)
LT STA. 164+85	3.00	15.0	CHEVRON W1-8 (18X24)
LT STA. 170+10	6.25	15.5	CURVE LEFT W1-2L (30X30)
CAMPBELL RD			
LT STA. 21+10	6.25	15.5	CURVE AHEAD W1-2(L)
LT STA. 21+10	2.25	-	ADVISORY 35 MPH W13-1P (18X18)
RT STA. 25+90	6.25	15.5	STOP AHEAD W3-1 (30X30)
RT STA. 29+90	6.25	15.5	STOP SIGN R1-1 (30X30)
TOTAL	107.75	350.00	
USE	108	350	

SEEDING AND EROSION CONTROL

LOCATION	SEEDING, CLASS 2 (SPECIAL) ACRE	TEMPORARY EROSION CONTROL SEEDING POUND	STONE DUMPED RIPRAP CL A4 (SPECIAL) TON
NINE MILE LANE (CH 13)			
LT STA 86+25 TO STA 93+25	0.58	58	
RT STA 86+25 TO STA 87+90	0.12	12	
RT STA 88+26 TO STA 90+75	0.2	20	
RT STA 91+25 TO STA 93+20	0.2	20	
OTTEN ROAD (CH 24)			
LT STA 4+90 TO STA 8+84	0.22	22	
LT STA 10+78 TO STA 13+04	0.37	37	
RT STA 4+90 TO STA 13+16	0.52	52	
NINE MILE LANE (CH 37)			
LT STA 95+22 TO STA 99+01	0.24	24	
LT STA 99+34 TO STA 102+29	0.19	19	
LT STA 102+39 TO STA 103+00	0.02	2	
LT STA 143+44 TO STA 147+81	0.26	26	
LT STA 147+93 TO STA 151+16	0.22	22	
LT STA 148+50 TO STA 150+50			163.6
LT STA 151+35 TO STA 155+70	0.41	41	
LT STA 155+91 TO STA 169+60	0.92	92	
RT STA 95+18 TO STA 103+00	0.58	58	
RT STA 143+54 TO STA 146+39	0.20	20	
RT STA 146+55 TO STA 169+60	1.49	149	
RT STA 148+50 TO STA 150+50			167.6
LAUNER ROAD			
LT STA 35+48 TO STA 41+20	0.36	36	
LT STA 40+00 TO STA 41+00			78.2
RT STA 35+49 TO STA 41+20	0.25	25	
AR STA 38+93			170.0
CAMPBELL ROAD			
LT STA 20+95 TO STA 24+70	0.09	9	
LT STA 25+40 TO STA 26+40	0.05	5	
LT STA 26+60 TO STA 29+74	0.23	23	151.6
RT STA 20+00 TO STA 23+55	0.11	11	
RT STA 23+71 TO STA 26+72	0.12	12	
RT STA 26+88 TO STA 28+09	0.06	6	
RT STA 28+09 TO STA 30+00	0.22	22	103.9
ABANDONED ROADWAY			
STA 51+66			48.8
STA 48+69 TO STA 56+63	0.69	69	
STA 57+17 TO STA 63+50	0.69	69	
TOTAL	9.61	961	883.6
USE	9.75		884

REMOVAL OF EXISTING STRUCTURES

LOCATION	TYPE	EACH
NINE MILE LANE (CH 37)		
STA. 149+48.00 (NO. 1)	6' X 6' RC ARCH BOX CULVERT	1
STA. 156+70.00 (NO. 2)	6' X 6' RC ARCH BOX CULVERT	1
LAUNER RD		
STA. 38+93.00 (NO. 3)	DOUBLE 108" X 46' CMP	1
ABANDONED ROADWAY		
STA. 51+74.00 (NO. 4)	5'X3'X28.4' RC ARCH BOX CULVERT	1
STA. 61+40.00 (NO. 5)	4'X4.2'X46.2' RC BOX CULVERT	1
TOTAL		5

AGGREGATE SURFACE COURSE, TYPE B

LOCATION	TYPE	WIDTH (W)	LENGTH (L)	THICKNESS	TON
NINE MILE LANE (CH 13)					
RT STA 88+08	FE	36	32	6	48.06
RT STA 91+00	FE	50	16	6	71.52
OTTEN ROAD (CH 24)					
LT STA 13+13	FE	16	49	6	32.46
NINE MILE LANE (CH 37)					
LT STA 99+21	PE	33.5	44	6	45.67
LT STA 102+35	PE	10	20	6	11.20
LT STA 147+87	PE	12	27	6	15.87
RT STA 146+48	FE	16	55	6	37.09
RT STA 147+96	MBTO			6	7.4
LAUNER RD					
LT STA 35+38	MBTO			6	9.3
RT STA 35+36	PE	24	10	6	13.33
CAMPBELL RD					
LT STA 24+90	PE	40	14	6	24.98
LT STA 26+50	FE	20	24	6	15.56
RT STA 23+63	FE	16	16	6	13.51
RT STA 26+80	PE	16	23	6	17.61
RT STA 28+00	FE	20	29	6	25.74
TOTAL					389.3
USE					389

INLET AND PIPE PROTECTION

LOCATION	EACH
OTTEN ROAD (CH 24)	
RT STA 9+73	1
RT STA 10+59	1
NINE MILE LANE (CH 37)	
RT STA 88+41	1
RT STA 92+50	1
CAMPBELL RD	
LT STA 21+00	1
LT STA 24+50	1
LT STA 25+75	1
LT STA 26+28	1
RT STA 23+35	1
RT STA 26+60	1
RT STA 27+80	1
TOTAL	16



JOB = 2247
 FILE NAME = 2247sched.dgn
 PLOT SCALE = 2.0000' / IN.
 PLOT DATE = 3/18/2019

DESIGNED - NAK
 DRAWN - TJD
 CHECKED - NAK
 DATE - 1/25/2011

REVISED -
 REVISED -
 REVISED -
 REVISED -

MACOUPIN COUNTY
 FAS 731 & 1736 IMPROVEMENTS

SCHEDULE OF QUANTITIES

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
731&1736	02-00082-00-FP	MACOUPIN	95	11
FED. ROAD DIST. NO.			CONTRACT NO. 93732	
ILLINOIS FED. AID PROJECT				

TEMPORARY DITCH CHECKS

LOCATION	FOOT
OTTEN ROAD (CH 24)	
LT STA 7+00	10
LT STA 11+00	10
RT STA 7+00	10
RT STA 9+00	10
RT STA 12+00	10
NINE MILE LANE (CH 13)	
LT STA 86+26	10
LT STA 88+50	10
LT STA 91+90	10
LT STA 92+40	10
RT STA 86+26	10
RT STA 89+50	10
NINE MILE LANE (CH 37)	
LT STA 102+71	10
LT STA 102+94	10
LT STA 143+50	10
LT STA 154+00	10
LT STA 156+86	10
LT STA 160+00	10
LT STA 163+00	10
LT STA 166+00	10
RT STA 96+00	10
RT STA 99+00	10
RT STA 143+50	10
RT STA 154+00	10
RT STA 156+63	10
RT STA 156+86	10
RT STA 160+00	10
RT STA 163+00	10
RT STA 166+00	10
LAUNER RD	
LT STA 37+00	10
LT STA 38+00	10
RT STA 38+00	10
RT STA 40+00	10
RT STA 41+15	10
CAMPBELL RD	
LT STA 29+20	10
RT STA 22+00	10
RT STA 24+00	10
RT STA 29+20	10
TOTAL	370

PERIMETER EROSION BARRIER

LOCATION	FOOT
LAUNER RD	
LT STA 38+25 TO STA 38+72	57
LT STA 39+27 TO STA 39+75	57
RT STA 38+25 TO STA 38+58	43
RT STA 38+13 TO STA 39+75	70
ABANDONED ROADWAY	
LT STA 49+00 TO STA 51+00	201
LT STA 61+72 TO STA 64+74	303
RT STA 57+13 TO STA 62+00	479
TOTAL	1,210

PIPE CULVERT REMOVAL

LOCATION	TYPE	FOOT
NINE MILE LANE (CH 13)		
STA. 87+58	12" CMP	38
RT STA 92+14	12" CMP	40
LT STA 92+37	18" CMP	76
STA. 92+51	18" CMP	34
OTTEN RD (CH 24)		
STA. 10+59	18" CMP	34
NINE MILE LANE (CH 37)		
LT STA 99+21	15" CMP	44
LT STA 102+33	15" CMP	26
STA 102+80	12" CMP	38
STA. 160+91	12" CMP	52
LAUNER RD		
LT STA 35+38	15" CMP	26
RT STA 35+39	10" PLASTIC	42
CAMPBELL RD		
LT STA 24+88	15" CMP	26
ABANDONED ROADWAY		
RT STA 52+60	10" PLASTIC	40
TOTAL		516

PULVERIZATION (PULVERIZE EXISTING SEAL COAT AND AGGREGATE MATERIALS)

LOCATION	AREA OF PULVERIZATION SQ FT	DEPTH INCH	QUANTITY SQ YD
OTTEN ROAD (CH 24)			
STA. 4+90.00 TO STA. 10+00.70	10,439	8	1,160
STA. 10+00.70 TO STA. 13+15.70	6,199	6	689
NINE MILE LANE (CH 13)			
STA. 86+25.00 TO STA. 93+26.91	22,186	6	2,466
NINE MILE LANE (CH 37)			
STA. 95+18.00 TO STA. 103+00.00	16,043	6	1,783
STA. 144+00.00 TO STA. 169+60.00	52,104	6	5,790
LAUNER ROAD			
STA. 35+23.46 TO STA. 41+11.00	7,347	3	817
CAMPBELL ROAD			
STA. 24+00.00 TO STA. 25+92.60	4,288	3	477
ABANDONED ROADWAY			
STA. 48+66.84 TO STA. 64+01.27	23,029	3	2,559
TOTAL			15,741

PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	
LOCATION	EACH
ABANDONED ROADWAY LT STA. 61+56	1
TOTAL	1

PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	
LOCATION	EACH
NINE MILE LANE (CH 13) STA. 92+50	2
NINE MILE LANE (CH 37) STA 102+80.50	2
TOTAL	4

PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 36"	
LOCATION	EACH
OTTEN ROAD (CH 24) STA. 10+59	2
TOTAL	2

PIPE CULVERTS, CLASS A, TYPE 1 24"	
LOCATION	FOOT
NINE MILE LANE (CH 13) STA. 92+50	60
NINE MILE LANE (CH 37) STA 102+80.50	36
TOTAL	96

PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36"	
LOCATION	FOOT
OTTEN ROAD (CH 24) STA. 10+59	60
TOTAL	60

PAVEMENT

LOCATION	WIDTH (FOOT)	SUB-BASE AREA (SQ FT)	SUBBASE GRANULAR MATERIAL (SPECIAL)		AGGREGATE BASE COURSE, TYPE A		PROCESSING SOIL-CEMENT BASE COURSE 12"		CEMENT (CWT)	PAVEMENT AREA (SQ FT)	BITUMINOUS MATLS (PRIME COAT)		BITUMINOUS MATLS (COVER COAT)		BITUMINOUS MATLS (SEAL COAT)		SEAL COAT AGGREGATE QUANTITY (TON)	COVER COAT AGGREGATE QUANTITY (TON)	
			THICKNESS (INCH)	QUANTITY (CU YD)	THICKNESS (INCH)	QUANTITY (TON)	THICKNESS (INCH)	QUANTITY (SQ YD)			RATE (LBS/SQ FT)	QUANTITY (TON)	RATE (GAL/SQ YD)	QUANTITY (TON)	RATE (GAL/SQ YD)	QUANTITY (TON)			
OTTEN ROAD (CH 24)																			
STA. 4+90.00 TO STA. 10+00.70	26	13,260	4	163.70	6	503.39	12	1,473.33	1,473.33	12,240	0.25	1.66	0.45	2.57	0.40	2.28	17.00	17.00	
STA. 10+00.70 TO STA. 13+15.70	26	8,202	4	101.26	6	311.37	12	911.33	911.33	7,571	0.25	1.03	0.45	1.59	0.40	1.41	10.52	10.52	
NINE MILE LANE (CH 13)																			
STA. 86+25.00 TO STA. 93+25.01	26	20,584	4	254.12	6	781.43	12	2,287.11	2,287.11	19,084	0.25	2.57	0.45	4.01	0.40	3.56	26.51	26.51	
NINE MILE LANE (CH 37)																			
STA. 95+18.00 TO STA. 103+00.00	26	20,184	4	249.19	6	766.24	12	2,242.67	2,242.67	18,619	0.25	2.52	0.45	3.91	0.40	3.48	25.86	25.86	
STA. 144+00.00 TO STA. 169+60.00	26	66,560	4	821.73	6	2,602.81	12	7,395.56	7,395.56	61,440	0.25	8.32	0.45	12.90	0.40	11.47	85.33	85.33	
LAUNER ROAD																			
STA. 35+23.46 TO STA. 41+49.19	20				8	630.34				12,453	0.25		0.45	2.62	0.40	2.32	17.30	17.30	
CAMPBELL ROAD																			
STA. 24+00.00 TO STA. 30+06.22	22				8	692.39				13,679	0.25	0.00	0.45	2.87	0.40	2.55	19.00	19.00	
TOTAL				1,590.00		6,287.97		14,310.00	14,310.00			16.10		30.47		27.07	201.52	201.52	
USE				1,590		6,288		14,310	14,310			16		30		27	202	202	

PIPE CULVERTS, CLASS D, TYPE 1 15"	
LOCATION	FOOT
NINE MILE LANE (CH 13) RT STA. 88+10	66
OTTEN ROAD (CH 24) RT STA. 9+94 LT STA. 13+13	24 30
NINE MILE LANE (CH 37) LT STA. 102+32 RT STA. 146+48 LT STA. 147+87	30 30 32
LAUNER RD RT STA. 35+36 LT STA. 35+38	50 44
CAMPBELL RD LT STA. 26+50 RT STA. 23+63 RT STA. 26+80 RT STA. 28+00	40 36 36 40
TOTAL	458

TRENCH BACKFILL

LOCATION	CU YD
OTTEN ROAD (CH 24) STA. 10+59	29.2
NINE MILE LANE (CH 13) STA. 92+50	31.05
NINE MILE LANE (CH 37) STA. 102+80.50 STA. 149+48 STA. 156+70	3.97 130.97 101.49
CAMPBELL RD STA. 29+40	229.66
TOTAL	526.34
USE	526

LOCATION	PRECAST CONC BOX CULVS		BOX CULVERT END SECTIONS		
	6' X 3' FOOT	8' X 4' FOOT	CULV NO. 1 EACH	CULV NO. 2 EACH	CULV NO. 3 EACH
NINE MILE LANE (CH 37) STA. 149+48 STA. 156+70	70.25 64.75		2	2	
CAMPBELL ROAD STA. 29+40		90			2
TOTAL	135	90	2	2	2

STORM SEWERS, CLASS A, TYPE 1 12"

LOCATION	FOOT
CAMPBELL RD LT STA. 21+00.50 TO STA 24+49.00 LT STA. 24+51.00 TO STA 25+74.00	348.5 123.0
ABANDONED ROADWAY LT STA. 57+12 TO STA 61+50	438.0
TOTAL	909.5
USE	910

INLETS, TYPE A, TYPE 8 GRATE

LOCATION	EACH
CAMPBELL RD LT STA. 21+00	1
TOTAL	1

INLETS, TYPE B, TYPE 8 GRATE

LOCATION	EACH
CAMPBELL RD LT STA. 24+50 LT STA. 25+75	1 1
TOTAL	2



JOB = 2247	DESIGNED - NAK	REVISED -
FILE NAME = 2247ashed.dgn	DRAWN - TJD	REVISED -
PLOT SCALE = 2.0000' / IN.	CHECKED - NAK	REVISED -
PLOT DATE = 1/10/2020	DATE - 1/25/2011	REVISED -

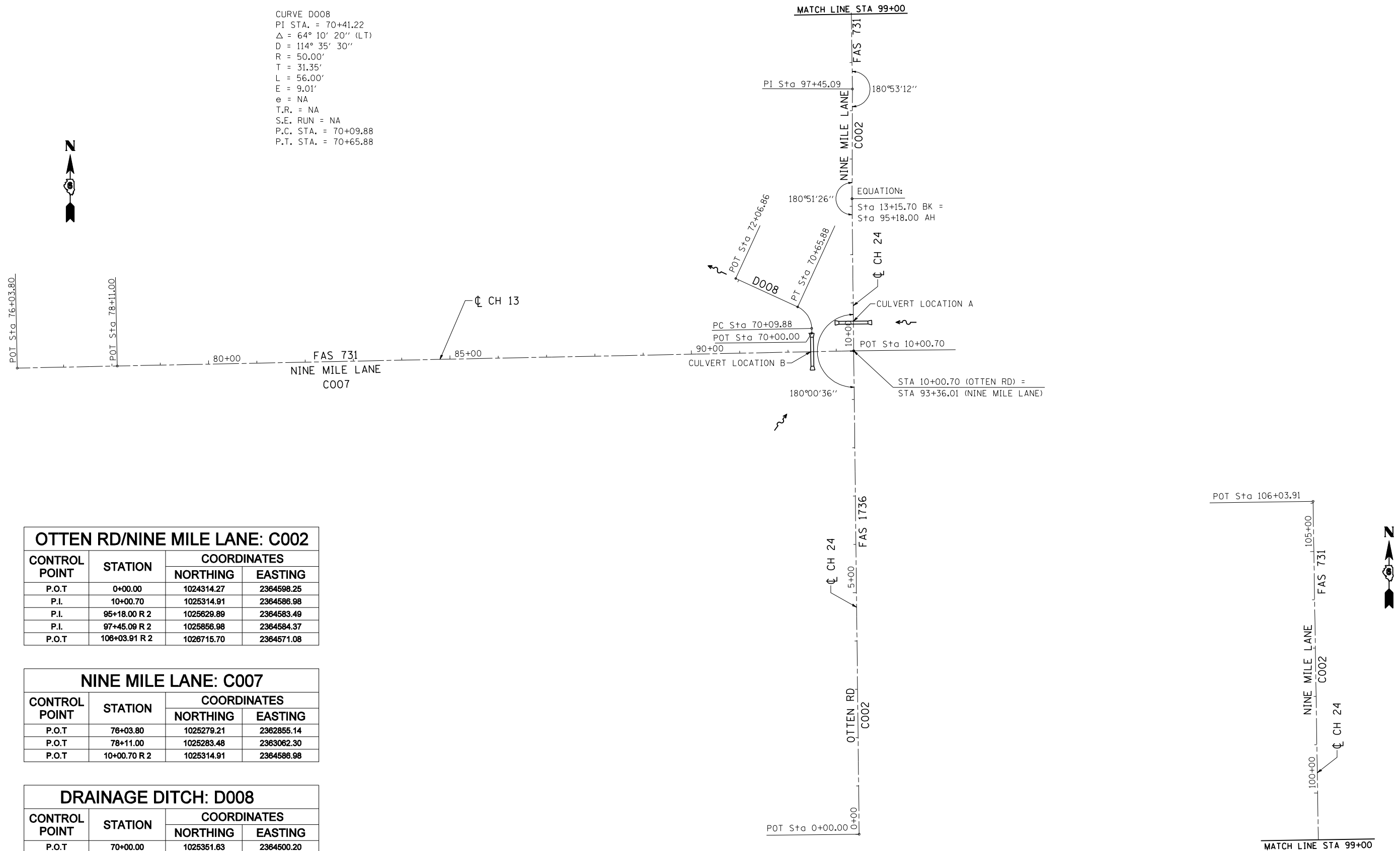
MACOUPIN COUNTY
FAS 731 & 1736 IMPROVEMENTS

SCHEDULE OF QUANTITIES

SCALE:	SHEET NO. OF SHEETS	STA. TO STA.
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F.A.S. RTE. 731&1736	SECTION 02-00082-00-FP	COUNTY MACOUPIN	TOTAL SHEETS 95	SHEET NO. 13
CONTRACT NO. 93732				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

CURVE D008
 PI STA. = 70+41.22
 $\Delta = 64^\circ 10' 20''$ (LT)
 $D = 114^\circ 35' 30''$
 $R = 50.00'$
 $T = 31.35'$
 $L = 56.00'$
 $E = 9.01'$
 $e = NA$
 $T.R. = NA$
 $S.E. RUN = NA$
 $P.C. STA. = 70+09.88$
 $P.T. STA. = 70+65.88$



OTTEN RD/NINE MILE LANE: C002

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
P.O.T	0+00.00	1024314.27	2364598.25
P.I.	10+00.70	1025314.91	2364586.98
P.I.	95+18.00 R 2	1025629.89	2364583.49
P.I.	97+45.09 R 2	1025856.98	2364584.37
P.O.T	106+03.91 R 2	1026715.70	2364571.08

NINE MILE LANE: C007

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
P.O.T	76+03.80	1025279.21	2362855.14
P.O.T	78+11.00	1025283.48	2363062.30
P.O.T	10+00.70 R 2	1025314.91	2364586.98

DRAINAGE DITCH: D008

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
P.O.T	70+00.00	1025351.63	2364500.20
P.C.	70+09.88	1025361.50	2364499.99
P.I.	70+41.22	1025392.85	2364499.35
P.T.	70+65.88	1025405.92	2364470.86
P.O.T	72+06.86	1025484.71	2364342.72



JOB = 2247
 FILE NAME = 2247a1.dgn
 PLOT SCALE = 200.0000' / IN.
 PLOT DATE = 3/18/2019

DESIGNED - NAK
 DRAWN - TJD
 CHECKED - NAK
 DATE - 2/17/2011

REVISED -
 REVISED -
 REVISED -
 REVISED -

**MACOUPIN COUNTY
 FAS 731 & 1736 IMPROVEMENTS**

ALIGNMENT			
SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
731&1736	02-00082-00-FP	MACOUPIN	95	14
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 93732	

CURVE C001
 PI STA. = 159+00.17
 $\Delta = 90^\circ 09' 48''$ (RT)
 $D = 5^\circ 15' 23''$
 $R = 1,090.00'$
 $T = 1,093.12'$
 $L = 1,715.28'$
 $E = 453.70'$
 $e = 4.0\%$
 $T.R. = 40$
 $S.E. RUN = 81$
 $P.C. STA. = 148+07.05$
 $P.T. STA. = 165+22.33$
 ATTAIN SE STA 147+16.3 TO STA 148+37.3
 REMOVE SE STA 164+92.08 TO STA 166+13.08

CURVE C006
 PI STA. = 55+91.64
 $\Delta = 89^\circ 38' 58''$ (RT)
 $D = 76^\circ 23' 40''$
 $R = 75.00'$
 $T = 74.54'$
 $L = 117.35'$
 $E = 30.74'$
 $e = NA$
 $T.R. = NA$
 $S.E. RUN = NA$
 $P.C. STA. = 55+17.10$
 $P.T. STA. = 56+34.45$

CURVE C004
 PI STA. = 40+00.64
 $\Delta = 18^\circ 02' 15''$ (RT)
 $D = 15^\circ 16' 44''$
 $R = 375.00'$
 $T = 59.52'$
 $L = 118.05'$
 $E = 4.69'$
 $e = 4.0\%$
 $T.R. = 25$
 $S.E. RUN = 67$
 $P.C. STA. = 39+41.12$
 $P.T. STA. = 40+59.17$
 ATTAIN SE STA 38+72.12 TO STA 39+64.12
 REMOVE SE STA 40+36.17 TO STA 41+28.17

CURVE C003
 PI STA. = 28+54.07
 $\Delta = 51^\circ 36' 13''$ (LT)
 $D = 16^\circ 22' 13''$
 $R = 350.00'$
 $T = 169.21'$
 $L = 315.23'$
 $E = 38.76'$
 $e = 4.0\%$
 $T.R. = 25$
 $S.E. RUN = 67$
 $P.C. STA. = 26+84.86$
 $P.T. STA. = 30+00.09$
 ATTAIN SE STA 26+15.86 TO STA 27+07.86
 *REMOVE SE STA 29+77.09 TO STA 30+06.22
 * TRANSITION TO MATCH C001
 EDGE OF PAVEMENT SLOPE

CURVE CH010
 PI STA. = 1004+39.06
 $\Delta = 74^\circ 23' 13''$ (LT)
 $D = 114^\circ 35' 30''$
 $R = 50.00'$
 $T = 37.94'$
 $L = 64.91'$
 $E = 12.77'$
 $e = NA$
 $T.R. = NA$
 $S.E. RUN = NA$
 $P.C. STA. = 1004+01.11$
 $P.T. STA. = 1004+66.03$

CURVE CH011
 PI STA. = 1004+96.50
 $\Delta = 73^\circ 26' 14''$ (RT)
 $D = 143^\circ 14' 22''$
 $R = 40.00'$
 $T = 29.84'$
 $L = 51.27'$
 $E = 9.90'$
 $e = NA$
 $T.R. = NA$
 $S.E. RUN = NA$
 $P.C. STA. = 1004+66.67$
 $P.T. STA. = 1005+17.94$

CAMPBELL RD: C003

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
P.O.T	19+99.83	1032606.13	2364646.66
P.I.	21+25.30	1032480.81	2364652.72
P.I.	23+11.10	1032295.04	2364656.29
P.C.	26+84.86	1031921.45	2364645.00
P.I.	28+54.07	1031752.32	2364639.89
P.T.	30+00.09	1031643.26	2364769.27
P.O.T	30+18.22	1031631.58	2364783.13

ABANDONED ROADWAY: C006

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
P.O.T	48+27.10	1031247.88	2364523.66
P.C.	55+17.10	1031937.84	2364516.80
P.I.	55+91.64	1032012.39	2364516.80
P.T.	56+34.45	1032012.84	2364591.34
P.O.T	66+53.02	1032019.07	2365609.90

LAUNER RD: C004

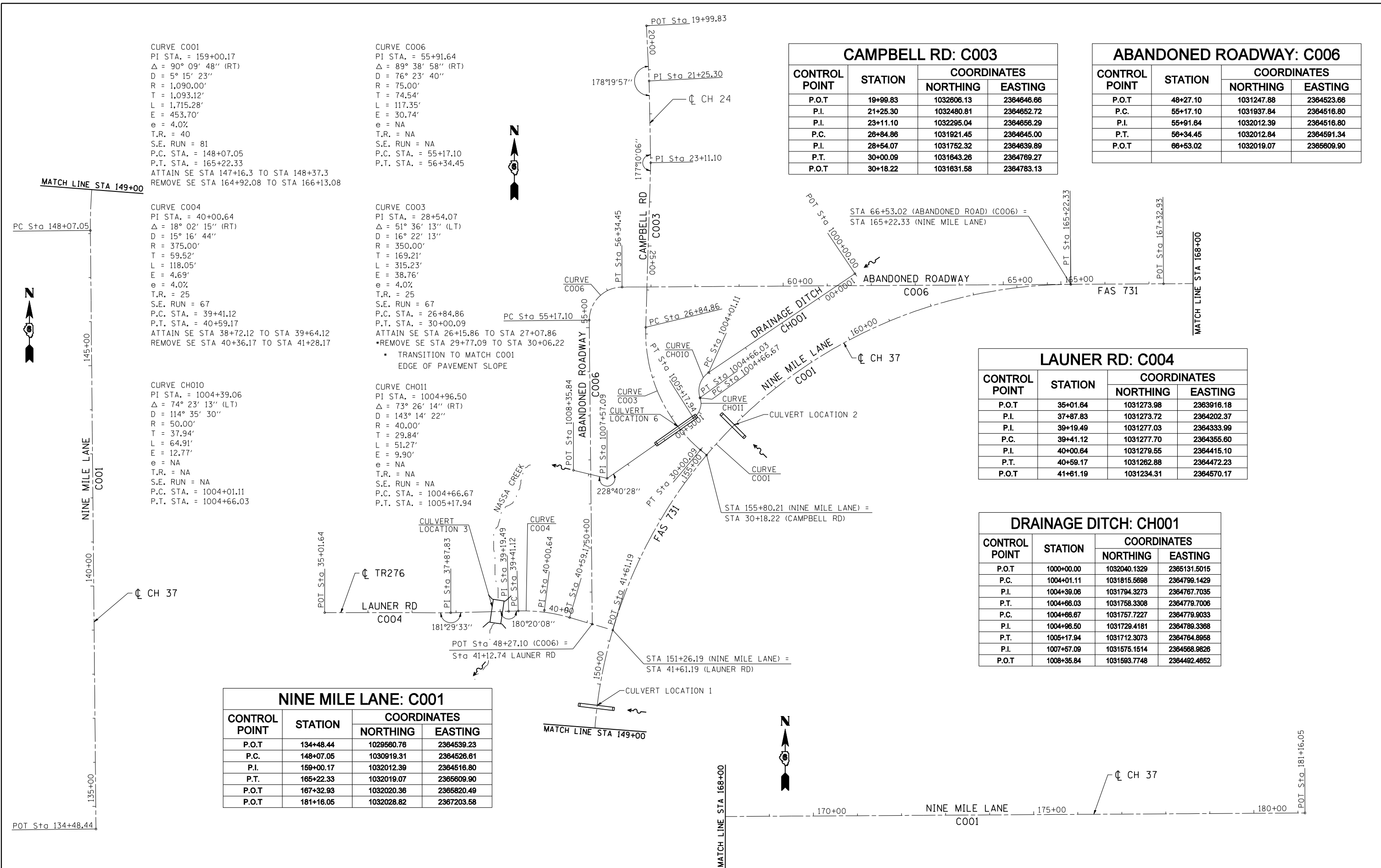
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
P.O.T	35+01.64	1031273.98	2363916.18
P.I.	37+87.83	1031273.72	2364202.37
P.I.	39+19.49	1031277.03	2364333.99
P.C.	39+41.12	1031277.70	2364355.60
P.I.	40+00.64	1031279.55	2364415.10
P.T.	40+59.17	1031262.88	2364472.23
P.O.T	41+61.19	1031234.31	2364570.17

DRAINAGE DITCH: CH001

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
P.O.T	1000+00.00	1032040.1329	2365131.5015
P.C.	1004+01.11	1031815.5698	2364799.1429
P.I.	1004+39.06	1031794.3273	2364767.7035
P.T.	1004+66.03	1031758.3308	2364779.7006
P.C.	1004+66.67	1031757.7227	2364779.9033
P.I.	1004+96.50	1031729.4181	2364789.3368
P.T.	1005+17.94	1031712.3073	2364764.8958
P.I.	1007+57.09	1031575.1514	2364568.9826
P.O.T	1008+35.84	1031583.7748	2364492.4652

NINE MILE LANE: C001

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
P.O.T	134+48.44	1029560.76	2364539.23
P.C.	148+07.05	1030919.31	2364526.81
P.I.	159+00.17	1032012.39	2364516.80
P.T.	165+22.33	1032019.07	2365609.90
P.O.T	167+32.93	1032020.36	2365820.49
P.O.T	181+16.05	1032028.82	2367203.58



JOB = 2247
 FILE NAME = 2247a1.dgn
 PLOT SCALE = 200.0000' / IN.
 PLOT DATE = 3/18/2019

DESIGNED - NAK
 DRAWN - TJD
 CHECKED - NAK
 DATE - 2/17/2011

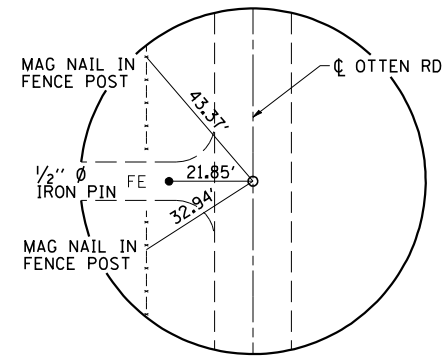
REVISED -
 REVISED -
 REVISED -
 REVISED -

**MACOUPIN COUNTY
 FAS 731 & 1736 IMPROVEMENTS**

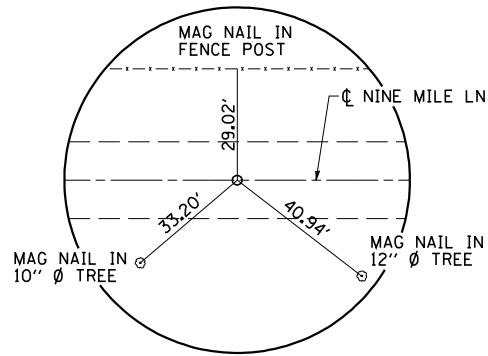
ALIGNMENT
 SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
731&1736	02-00082-00-FP	MACOUPIN	95	15
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 93732	

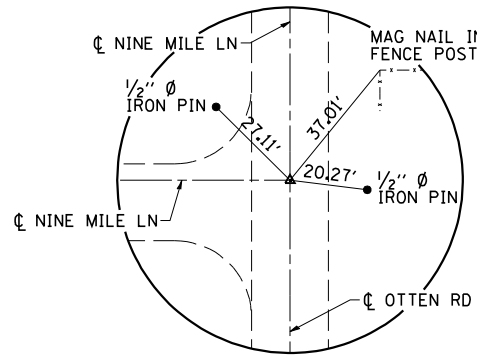
OTTEN ROAD



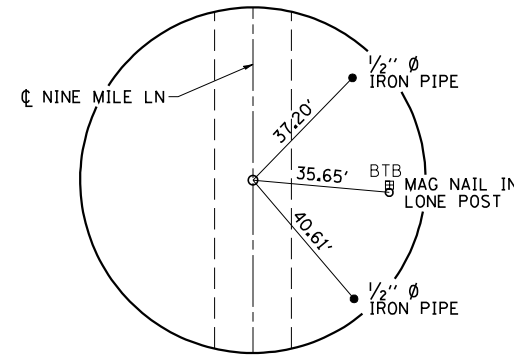
POT STA 1+75.00
MAG NAIL (SET)



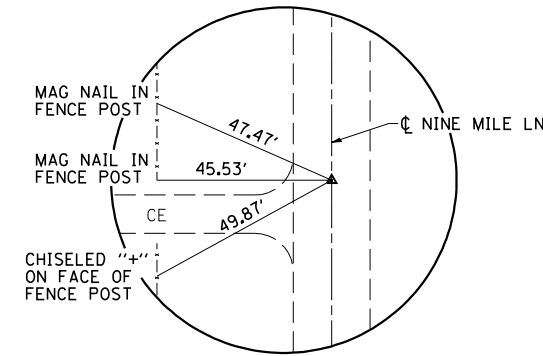
PI STA 78+11.00
MAG NAIL (SET)



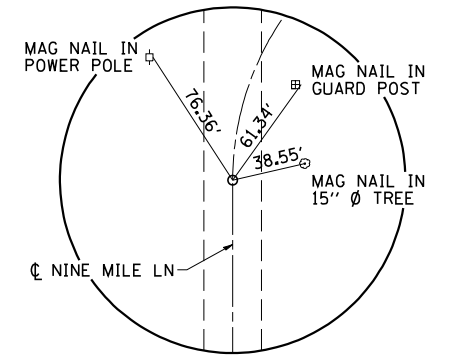
PI STA 93+36.00 =
POT STA 10+00.00
MAG NAIL (SET)



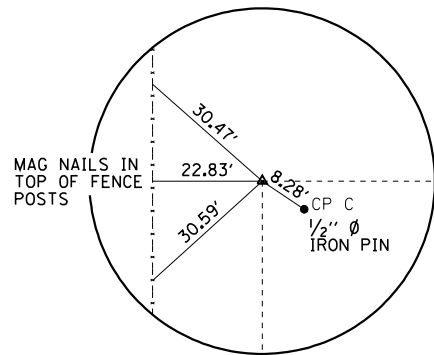
POT STA 134+48.44
MAG NAIL (SET)



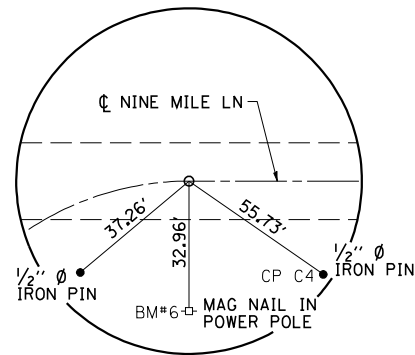
PI STA 141+32.06
MAG NAIL (SET)



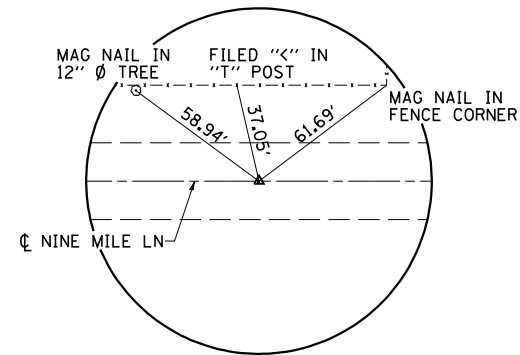
PC STA 148+07.05
MAG NAIL (SET)



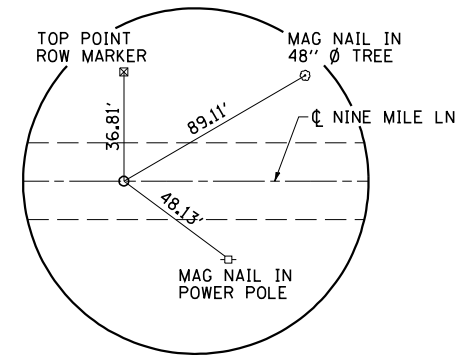
PI STA 159+00.16
1/2\"/>



PT STA 165+22.33
MAG NAIL (SET)



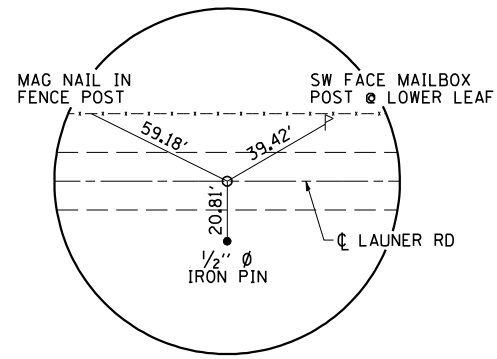
PI STA 167+32.93
MAG NAIL (SET)



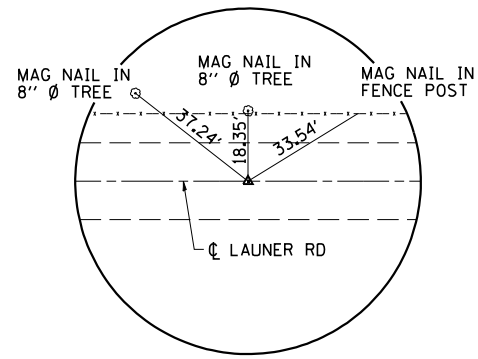
POT STA 181+16.04
MAG NAIL (SET)

NINE MILE LN

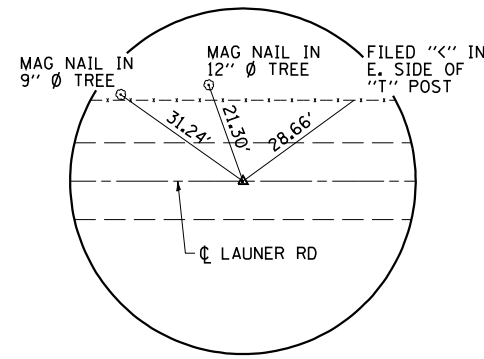
LAUNER RD



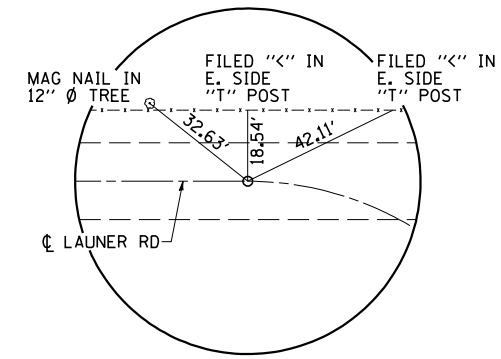
POT STA 35+01.64
MAG NAIL (SET)



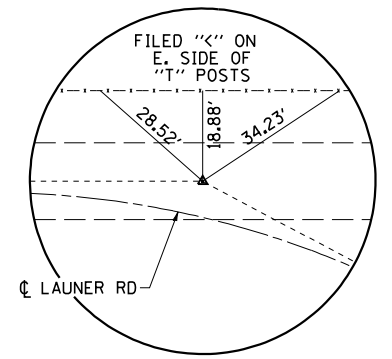
PI STA 37+87.83
MAG NAIL (SET)



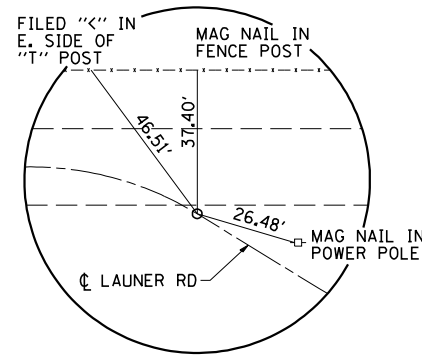
PI STA 39+19.49
MAG NAIL (SET)



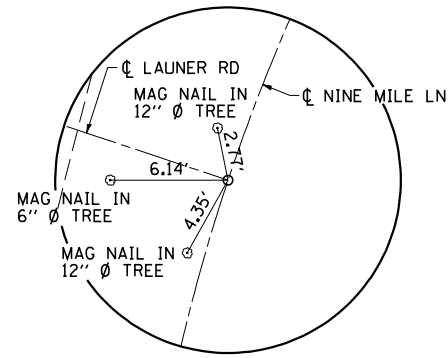
PC STA 39+41.12
MAG NAIL (SET)



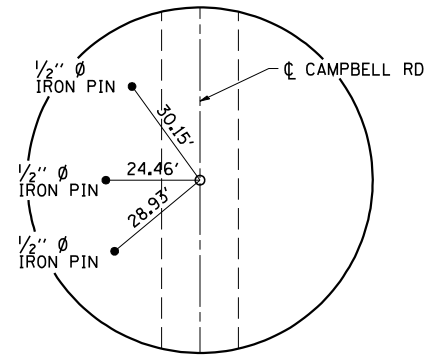
PI STA 40+00.64
MAG NAIL (SET)



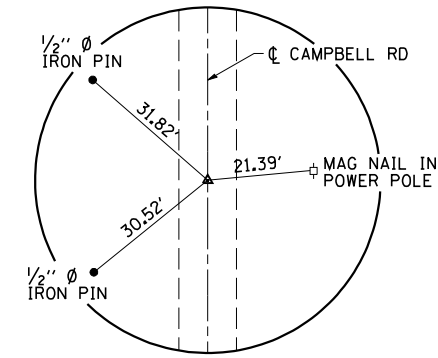
PT STA 40+59.17
1/2" Ø IRON PIN (SET)



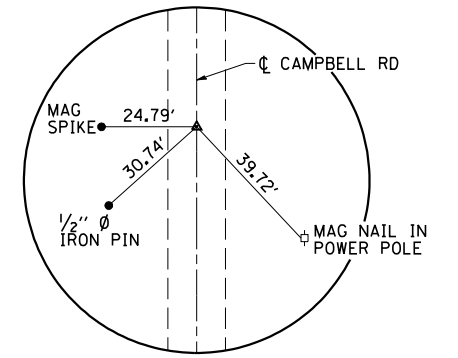
POT STA 41+61.19 (LAUNER RD)
= POC STA 151+26.18 (NINE MILE LN)
1/2" Ø IRON PIN (SET)



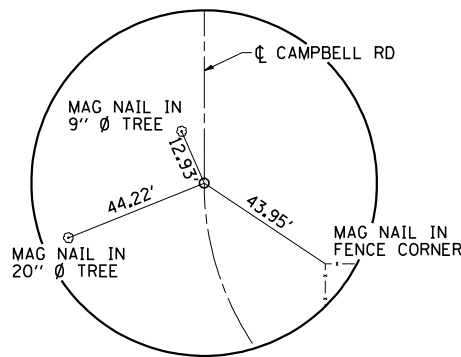
POT STA 19+99.83
MAG NAIL (SET)



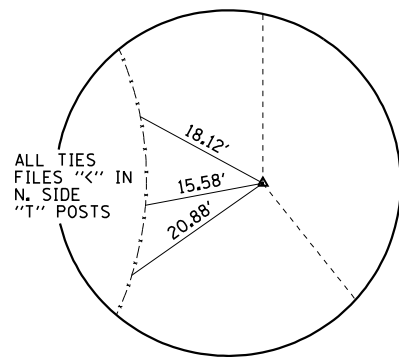
PI STA 21+25.30
MAG NAIL (SET)



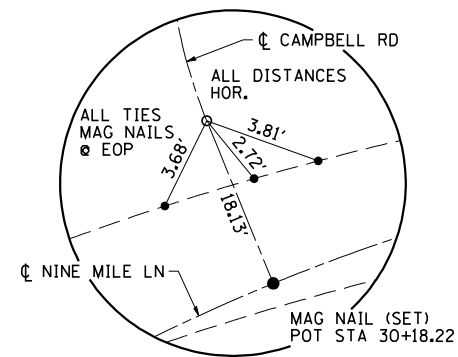
PI STA 23+11.10
MAG NAIL (SET)



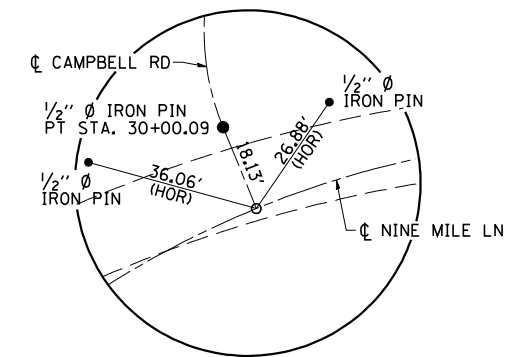
PC STA 26+84.86
1/2" Ø IRON PIN (SET)



PI STA 28+54.07
1/2" Ø IRON PIN (SET)

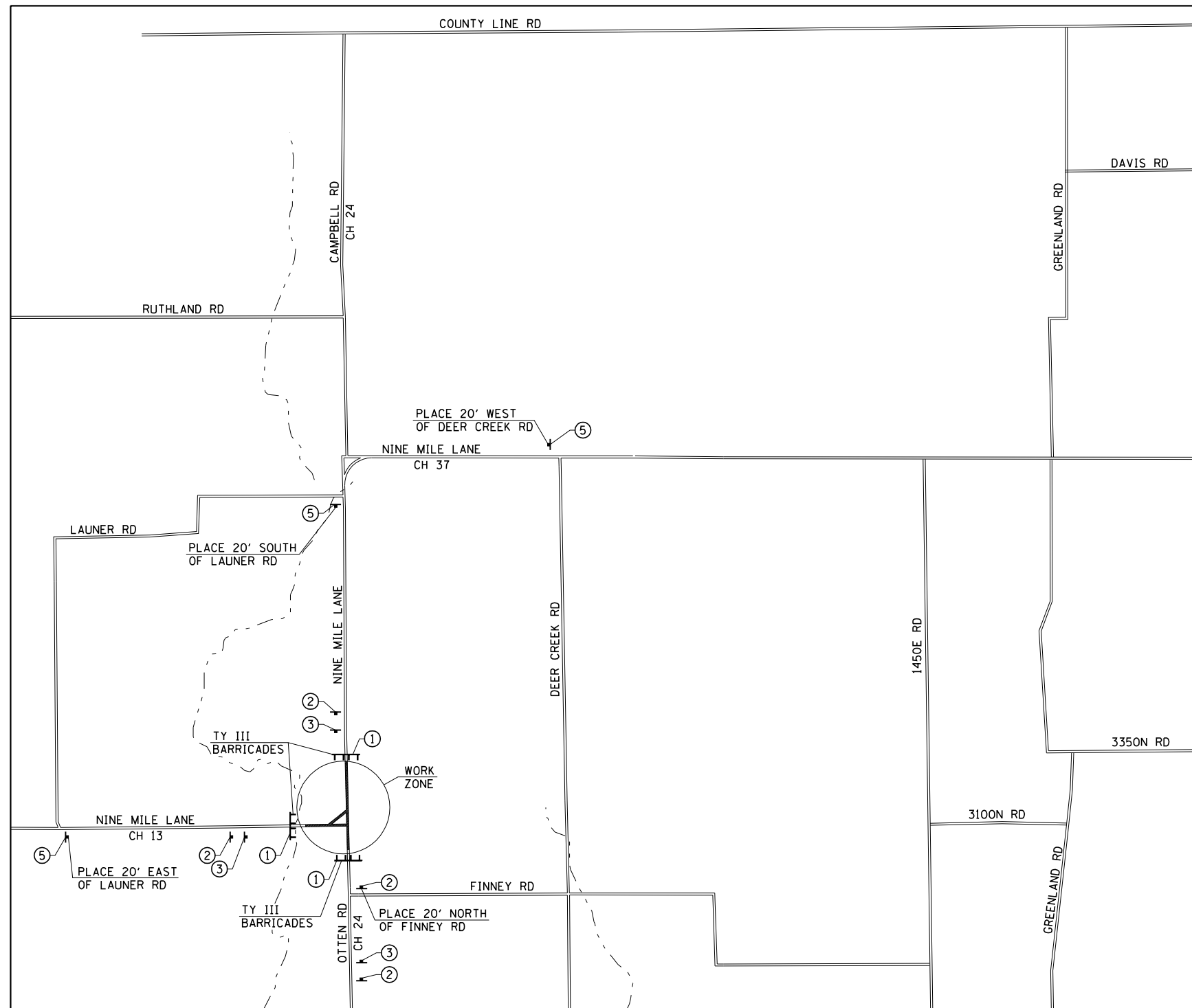


PT STA 30+00.09
1/2" Ø IRON PIN (SET)



POT STA 30+18.22 (CAMPBELL RD)
= POC STA 155+80.21 (NINE MILE LN)
MAG NAIL (SET)

CAMPBELL RD



PLACEMENT OF TRAFFIC CONTROL DEVICES
SEGMENT 1

STAGE CONSTRUCTION SIGN LEGEND

SIGN NUMBER	SIGN DESCRIPTION	MUTCD SIGN DESIGNATION	SPECIAL COLOR	SIZE
1	ROAD CLOSED	R11-2		48" x 30"
2	ROAD CLOSED AHEAD	W20-3	ORANGE	48" x 48"
3	ROAD CLOSED 500 FT	W20-3	ORANGE	48" x 48"
4	DIRECTIONAL ARROW	M5-1(L)	ORANGE	21" x 15"
5	ROAD CLOSED XX MILES AHEAD	R11-3a	WHITE	60" x 30"

ROAD CLOSED SIGN (R11-2) SHALL BE MOUNTED ON TYPE III BARRICADES AND POSITIONED AS SHOWN IN THE "ROAD CLOSED TO ALL TRAFFIC" DETAIL ON STANDARD 701901

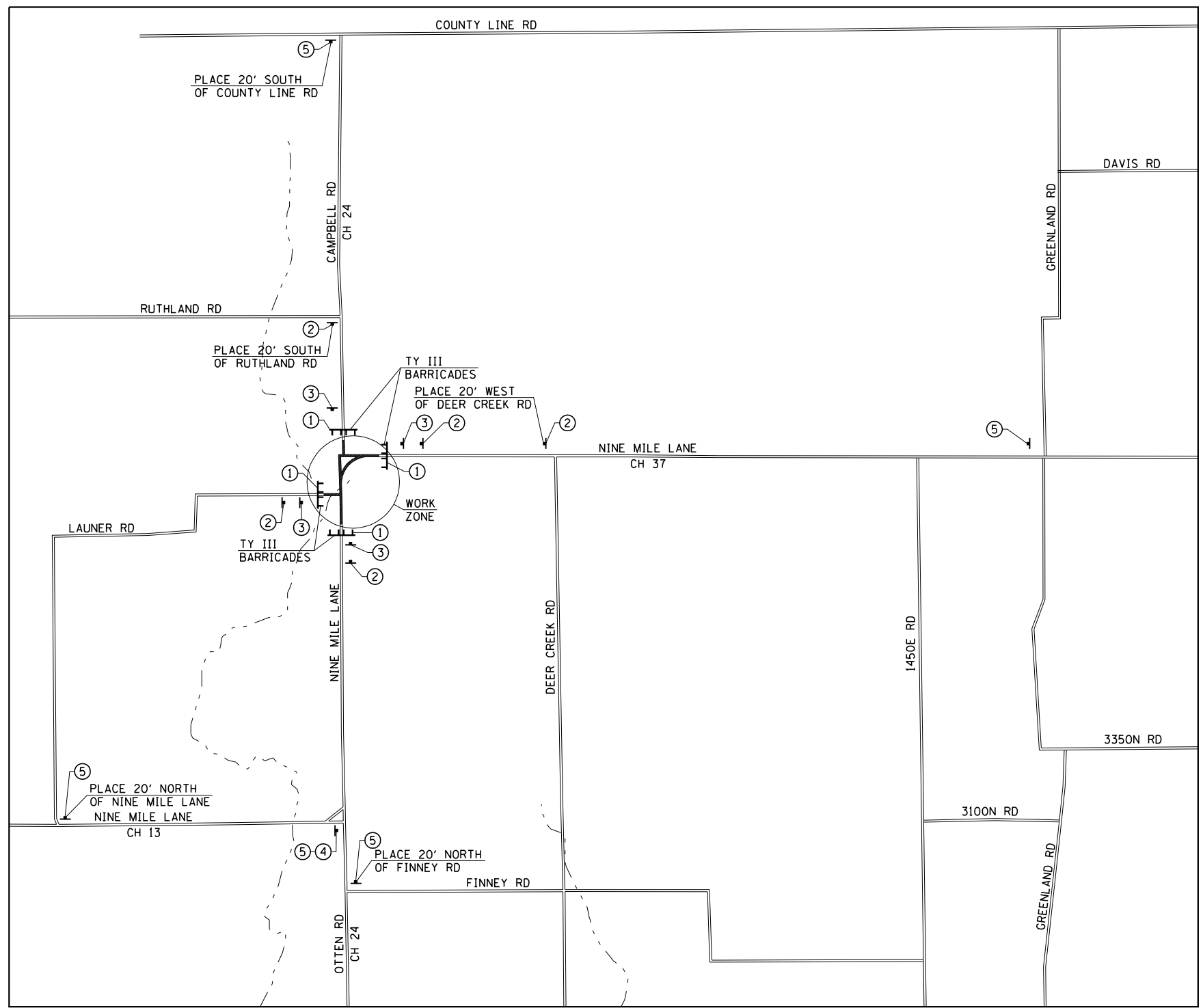
ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT EDITION OF THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES IN EFFECT ON THE DATE OF THE INVITATION FOR BIDS.

THE CONTRACTOR SHALL MAINTAIN ACCESS FOR ALL LOCAL RESIDENTS AS SPECIFIED IN ARTICLE 107.09 OF THE STANDARD SPECIFICATIONS.

SEE STANDARDS 701901 AND BLR 21 FOR DETAILS NOT SHOWN

SUGGESTED SEQUENCE OF OPERATIONS
STAGE 1 - SOUTH INTERSECTION

1. CLOSE NINE MILE LANE AND OTTEN ROAD.
2. EXCAVATE DITCHES, INSTALL PIPE CULVERTS, AND CONSTRUCT EMBANKMENTS.
3. PLACE 4 INCH LAYER OF SUBBASE GRANULAR MATERIAL, TYPE B, SPECIAL.
4. CONSTRUCT 12 INCH SOIL CEMENT BASE COURSE.
5. PLACE 6 INCH LAYER OF AGGREGATE BASE COURSE, TYPE A.
6. PLACE AGGREGATE SURFACE COURSE ON ENTRANCES.
7. FINISH GRADING SHOULDERS FLUSH WITH AGGREGATE BASE COURSE AND AGGREGATE SURFACE COURSE.
8. CONSTRUCT A2 BITUMINOUS SURFACE TREATMENT.
9. FINAL GRADING AND SEEDING.



PLACEMENT OF TRAFFIC CONTROL DEVICES
SEGMENT 2

STAGE CONSTRUCTION SIGN LEGEND

SIGN NUMBER	SIGN DESCRIPTION	MUTCD SIGN DESIGNATION	SPECIAL COLOR	SIZE
1	ROAD CLOSED	R11-2		48" x 30"
2	ROAD CLOSED AHEAD	W20-3	ORANGE	48" x 48"
3	ROAD CLOSED 500 FT	W20-3	ORANGE	48" x 48"
4	DIRECTIONAL ARROW	M5-1(L)	ORANGE	21" x 15"
5	ROAD CLOSED XX MILES AHEAD	R11-3a	WHITE	60" x 30"

ROAD CLOSED SIGN (R11-2) SHALL BE MOUNTED ON TYPE III BARRICADES AND POSITIONED AS SHOWN IN THE "ROAD CLOSED TO ALL TRAFFIC" DETAIL ON STANDARD 701901

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT EDITION OF THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES IN EFFECT ON THE DATE OF THE INVITATION FOR BIDS.

THE CONTRACTOR SHALL MAINTAIN ACCESS FOR ALL LOCAL RESIDENTS AS SPECIFIED IN ARTICLE 107.09 OF THE STANDARD SPECIFICATIONS.

SEE STANDARDS 701901 AND BLR 21 FOR DETAILS NOT SHOWN

SUGGESTED SEQUENCE OF OPERATIONS

STAGE 2 - NORTH INTERSECTION

1. CLOSE NINE MILE LANE, LAUNER ROAD, AND CAMPBELL ROAD.
2. EXCAVATE DITCHES, CONSTRUCT BOX CULVERTS, INSTALL PIPE CULVERTS, AND CONSTRUCT EMBANKMENTS.
3. PLACE 4 INCH LAYER OF SUBBASE GRANULAR MATERIAL, TYPE B, SPECIAL
4. CONSTRUCT 12 INCH SOIL CEMENT BASE COURSE.
5. PLACE 6 INCH LAYER OF AGGREGATE BASE COURSE, TYPE A.
6. PLACE AGGREGATE SURFACE COURSE ON ENTRANCES.
7. FINISH GRADING SHOULDERS FLUSH WITH AGGREGATE BASE COURSE AND AGGREGATE SURFACE COURSE.
8. CONSTRUCT A2 BITUMINOUS SURFACE TREATMENT.
9. FINAL GRADING AND SEEDING.



JOB = 2247
FILE NAME = 2247stage.dgn
PLOT SCALE = 200.0000' / IN.
PLOT DATE = 3/18/2019

DESIGNED - NAK
DRAWN - TJD
CHECKED - NAK
DATE - 2/17/2011

REVISED -
REVISED -
REVISED -
REVISED -

MACOUPIN COUNTY
FAS 731 & 1736 IMPROVEMENTS

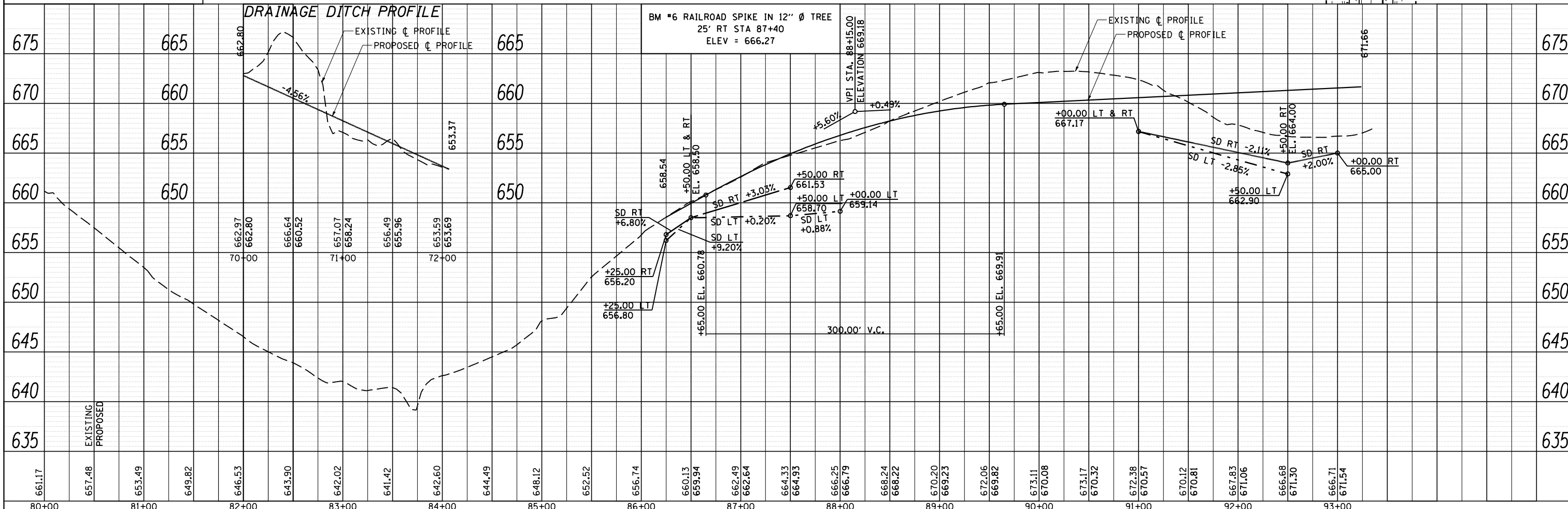
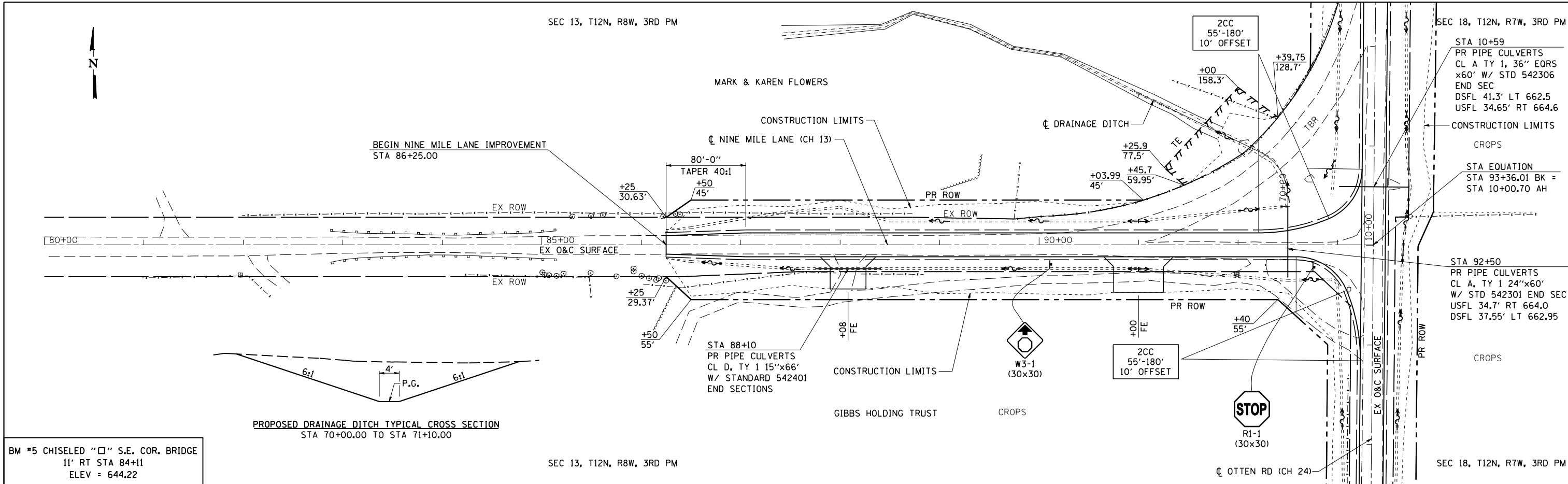
TRAFFIC CONTROL AND PROTECTION
SEGMENT 2

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
731&1736	02-00082-00-FP	MACOUPIN	95	19
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 93732	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	

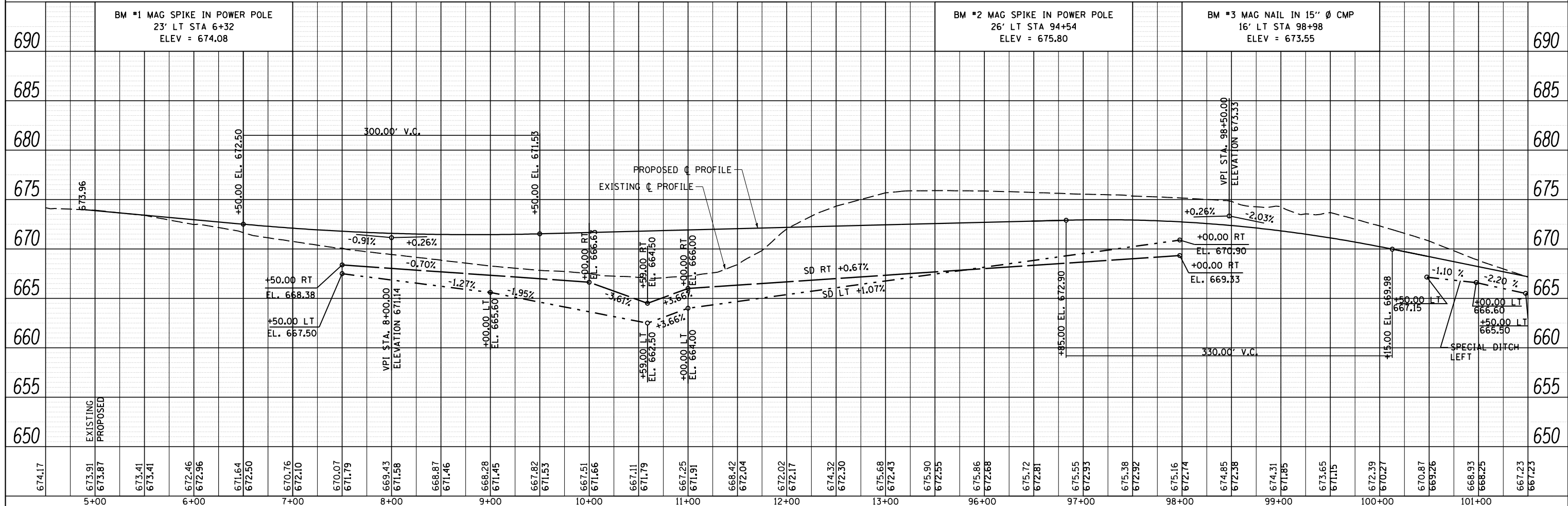
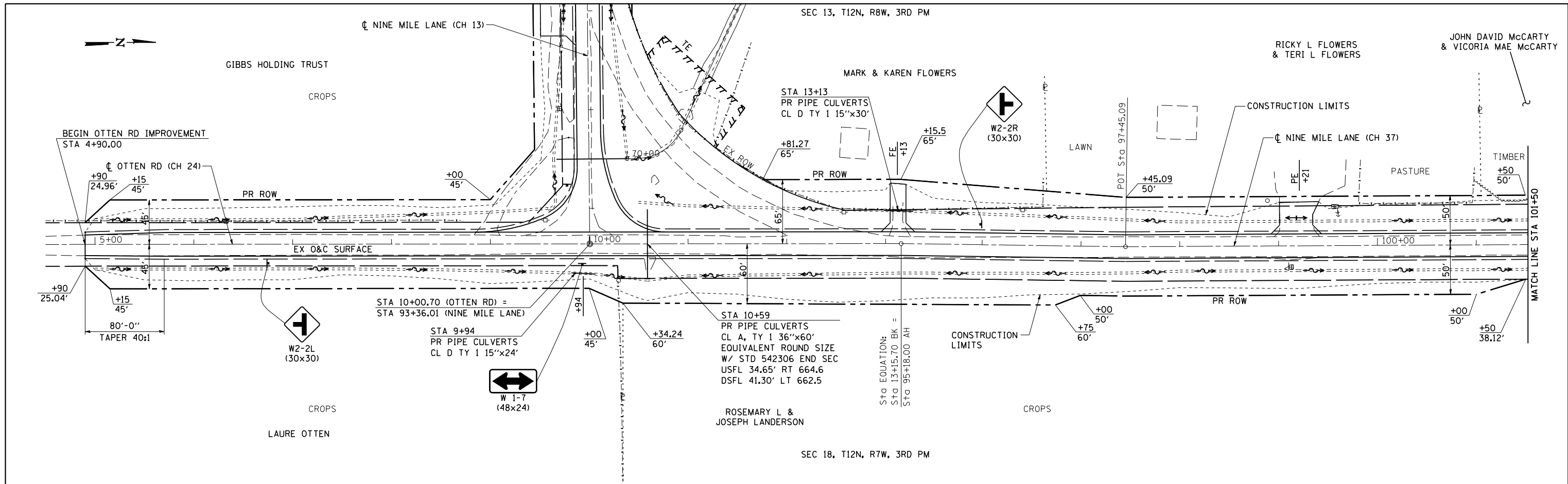
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	



	JOB = 2247	DESIGNED - NAK	REVISED -	MACOUPIN COUNTY FAS 731 & 1736 IMPROVEMENTS	NINE MILE LANE PLAN & PROFILE	F.A.S. RTE. 731&1736	SECTION 02-00082-00-FP	COUNTY MACOUPIN	TOTAL SHEETS 95	SHEET NO. 20
	FILE NAME = 2247p&pC007.dgn	DRAWN - TJD	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
	PLOT SCALE = 100.0000' / IN.	CHECKED - NAK	REVISED -			CONTRACT NO. 93732				
	PLOT DATE = 3/18/2019	DATE - 2/17/2011	REVISED -							

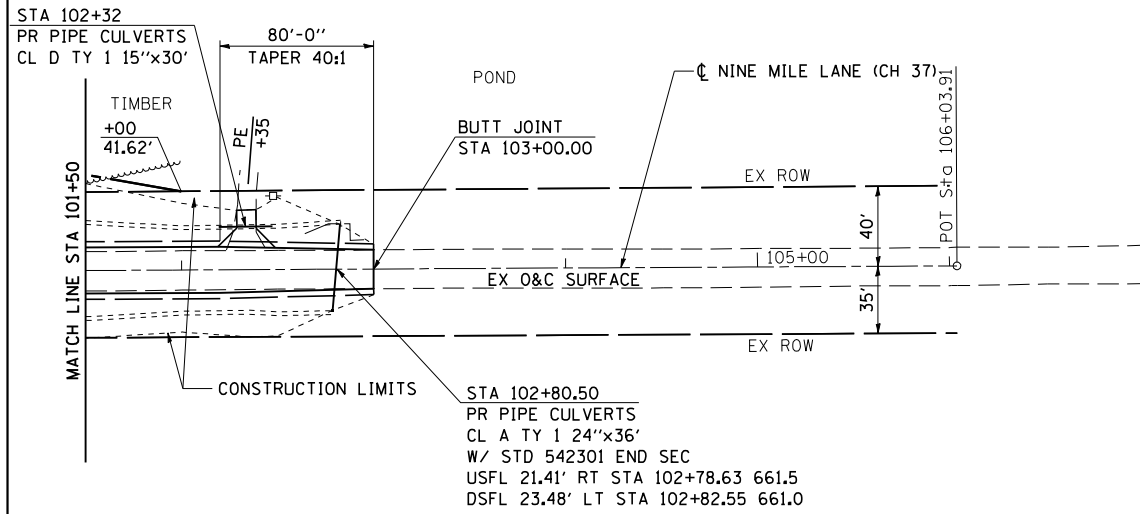
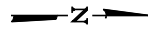
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NOTE BOOK	PLOTTED	BY
NO.	CHECKED	
	ALIGNED	
	FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK	GRADES CHECKED	BY
NO.	STRUCTURE	
	NOTATIONS CHKD	



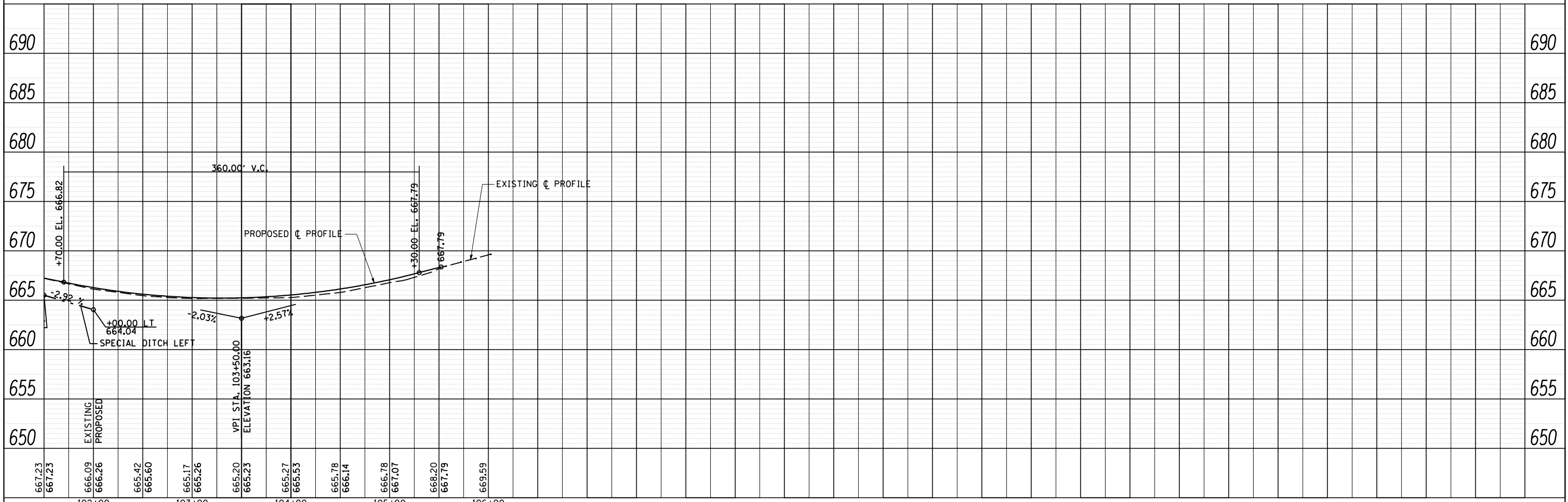
CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2247 FILE NAME = 2247p&pC002.dgn PLOT SCALE = 100.0000' / IN. PLOT DATE = 3/18/2019	DESIGNED - NAK DRAWN - TJD CHECKED - NAK DATE - 1/25/2011	REVISED - REVISED - REVISED - REVISED -	MACOUPIN COUNTY FAS 731 & 1736 IMPROVEMENTS		OTTEN RD / NINE MILE LANE PLAN & PROFILE		F.A.S. RTE. 731&1736 SECTION 02-0082-00-FP COUNTY MACOUPIN CONTRACT NO. 93732	TOTAL SHEETS 95 SHEET NO. 21
	SCALE: SHEET NO. OF SHEETS STA. 4+90.00 TO STA. 101+50.00		FEDERAL ROAD DIST. NO. ILLINOIS FED. AID PROJECT						

SEC 13, T12N, R8W, 3RD PM



CROPS

SEC 18, T12N, R7W, 3RD PM



PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	AT		
	CAD FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	AT		
	STRUCTURE		
	NOT AT THIS OFFICE		
	NO.		



JOB = 2247
 FILE NAME = 2247p&pC002.dgn
 PLOT SCALE = 100.0000' / IN.
 PLOT DATE = 3/18/2019

DESIGNED - NAK
 DRAWN - TJD
 CHECKED - NAK
 DATE - 2/8/2011

REVISED -
 REVISED -
 REVISED -
 REVISED -

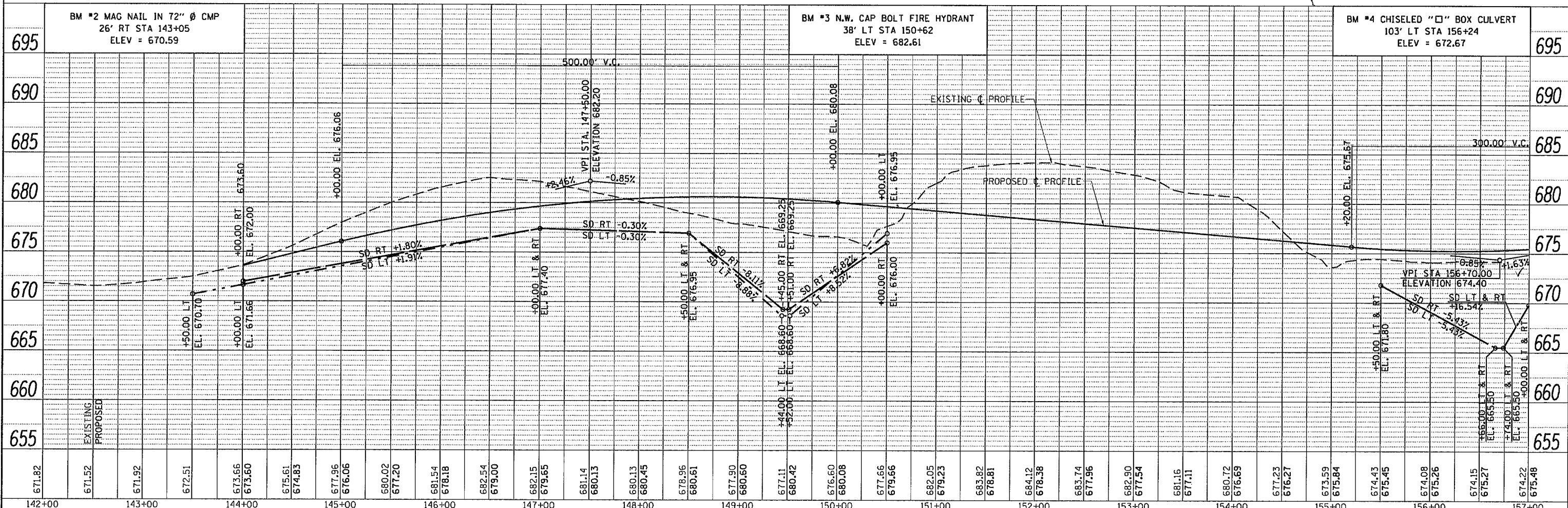
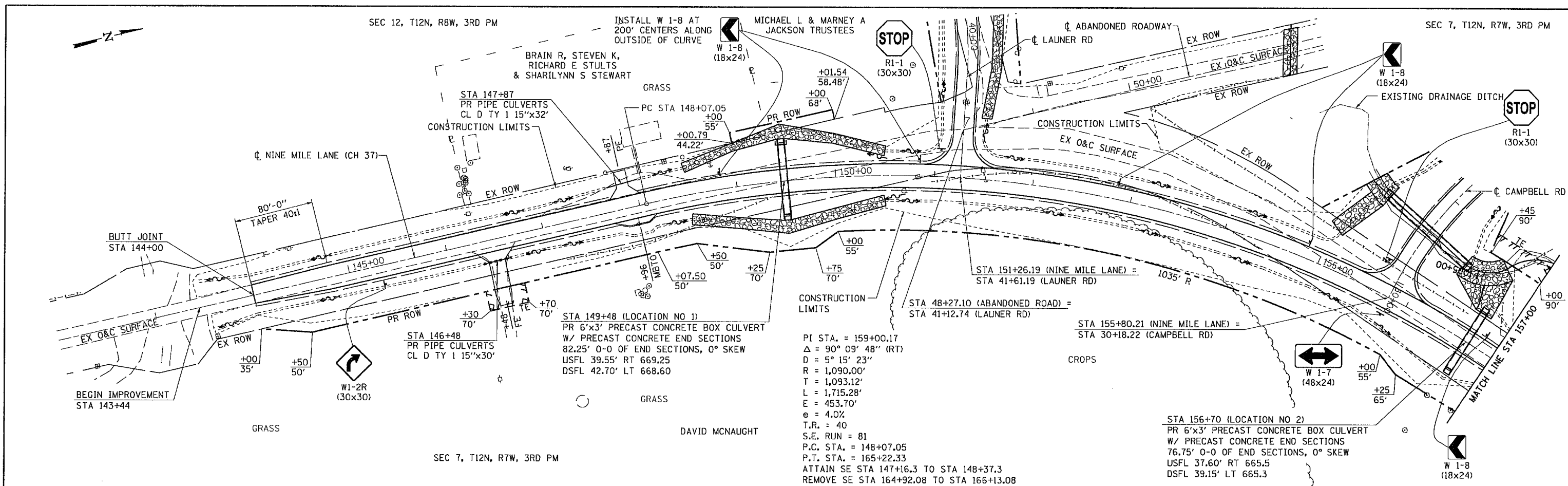
MACOUPIN COUNTY
FAS 731 & 1736 IMPROVEMENTS

OTTEN RD /NINE MILE LANE
PLAN & PROFILE

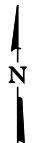
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
731&1736	02-00082-00-FP	MACOUPIN	95	22
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 93732	

DATE	
BY	
PLAN	
REVISION	
NO.	
DATE	
BY	
PROFILE	
REVISION	
NO.	
DATE	
BY	



CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2247	DESIGNED - NAK	REVISED -	MACOUPIN COUNTY FAS 731 & 1736 IMPROVEMENTS	NINE MILE LANE PLAN & PROFILE	SECTION 02-00082-00-FP	COUNTY MACOUPIN	TOTAL SHEETS 95	SHEET NO. 23
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	PLDT DATE = 12/2/2019	DATE - 2/17/2011	REVISED -						
SCALE:				SHEET NO. OF SHEETS		STA. 141+00.00 TO STA. 156+00.00		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	
CONTRACT NO. 93732									



NOTE: FIELD TILE IN DITCH

SEC 12, T12N, R8W, 3RD PM

CL ABANDONED ROADWAY

GHAROLD L WELLER
TESTAMENTARY TRUST-TRUST B

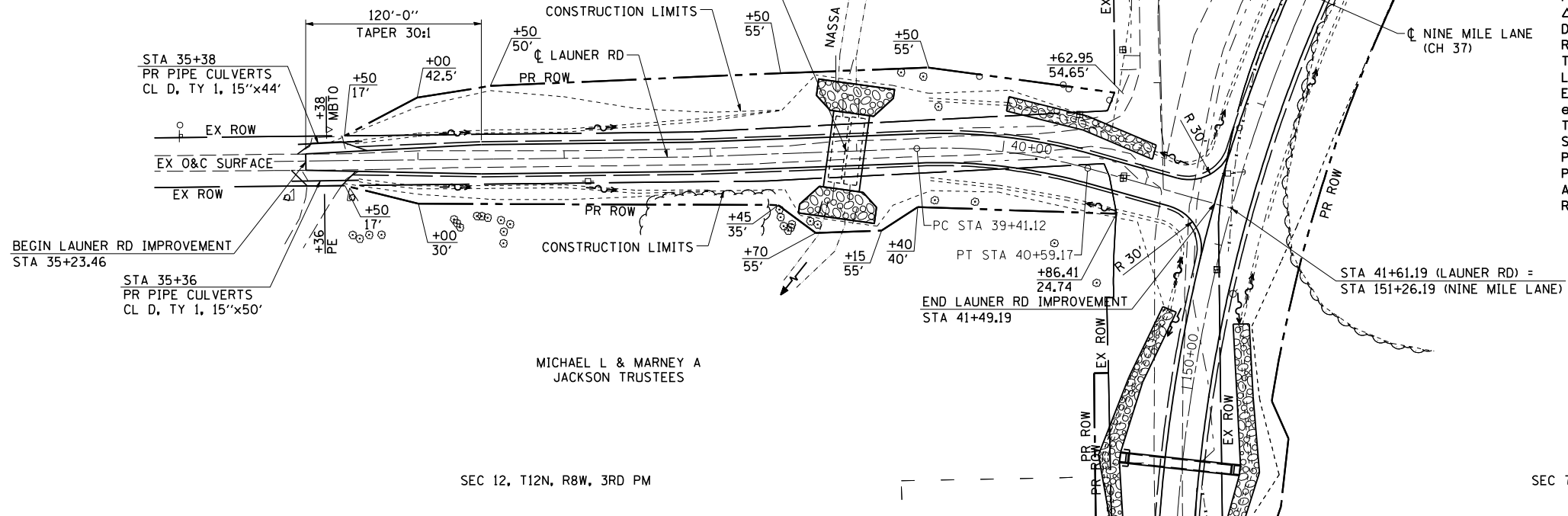


INDICATES LIMITS OF STONE DUMPED RIPRAP, CL A4 (SPECIAL)

STA 38+93
SN 059-5012
PR ALUMINUM BOX CULVERT
10° SKEW, 24'-8" SPAN x
10'-6" RISE x 52'-6" LONG WITH
FULL ALUMINUM INVERT,
TOEWALLS, HEADWALLS AND
BEVELED WINGWALLS

PI STA. = 40+00.64
Δ = 18° 02' 15" (RT)
D = 15° 16' 44"
R = 375.00'
T = 59.52'
L = 118.05'
E = 4.69'
e = 4.0%
T.R. = 25
S.E. RUN = 67
P.C. STA. = 39+41.12
P.T. STA. = 40+59.17
ATTAIN SE STA 38+72.12 TO STA 39+64.12
REMOVE SE STA 40+36.17 TO STA 41+28.17

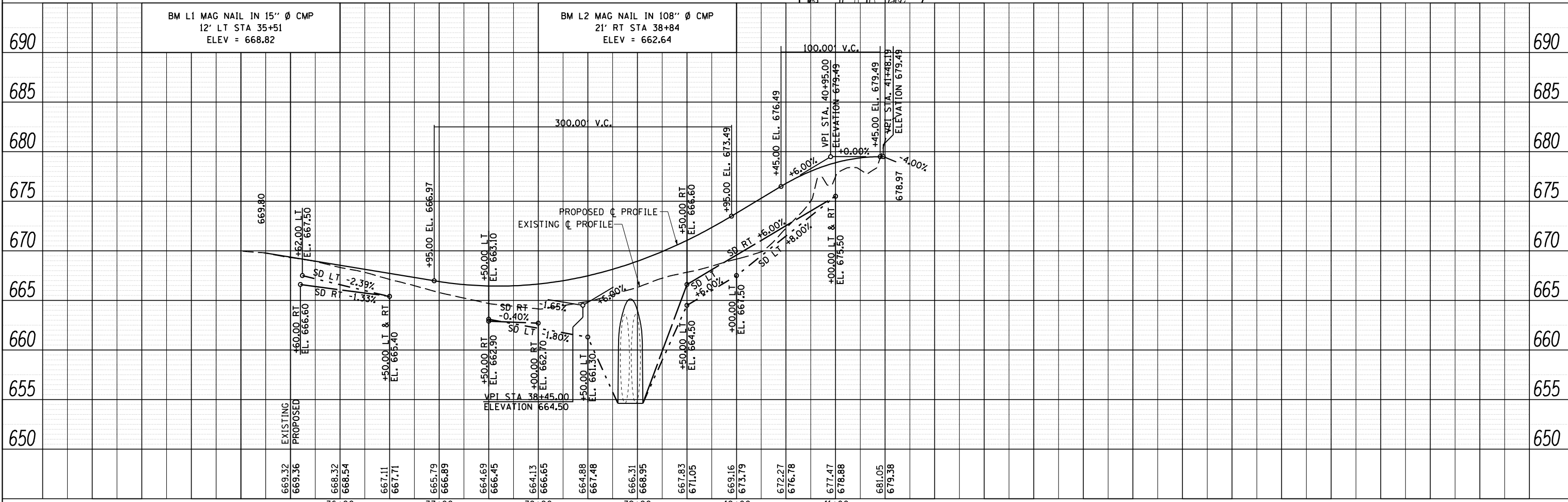
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	PLOTTED		
	CHECKED		
	NOTED		
	FILE NAME		
	NO.		



SEC 12, T12N, R8W, 3RD PM

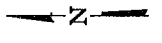
SEC 7, T12N, R7W, 3RD PM

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	NOTED		
	FILE NAME		
	NO.		



CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2247	DESIGNED - NAK	REVISED -	MACOUPIN COUNTY FAS 731 & 1736 IMPROVEMENTS	LAUNER ROAD PLAN & PROFILE	F.A.S. RTE. 731&1736	SECTION 02-00082-00-FP	COUNTY MACOUPIN	TOTAL SHEETS 95	SHEET NO. 25
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	PLOT SCALE = 100.0000' / IN.	CHECKED - NAK	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
	PLOT DATE = 3/18/2019	DATE - 1/25/2011	REVISED -			SCALE: SHEET NO. OF SHEETS STA. 35+23.46 TO STA. 41+49.19				

NOTE: FIELD TILE IN DITCH



GHAROLD L WELLER
TESTAMENTARY TRUST-TRUST B

PR STORM SEWER CL A, TY 1 12"x438'
W/ STD 542301 END SEC
USFL 17.3' LT STA 57+12 H 676.80
DSFL 15.4' LT STA 61+56 H 668.65

EXISTING DRAINAGE
DITCH

STA 29+40 (LOCATION NO. 3)
PR 8'x4' PRECAST CONCRETE BOX CULVERT
W/ PRECAST CONCRETE END SECTIONS
102' 0-0 OF END SECTIONS, 5° SKEW (LT FWD)
USFL 53.8' LT 661.0
DSFL 58.2' RT 660.4

INDICATES LIMITS OF STONE
DUMPED RIPRAP, CL A4 (SPECIAL)

DATE	
BY	
NO.	
DATE	
BY	
NO.	
DATE	
BY	
NO.	

BEGIN CAMPBELL RD
IMPROVEMENT STA 20+00.00

PR INLETS, TY A, TY B GRATE
15.15' LT STA 21+00
H GRATE 683.4
H 12" 681.7

PR INLETS, TY B
TY B GRATE
17.7' LT STA 24+50
H GRATE 681.20
H 12" 679.40

PR INLETS, TY B
TY B GRATE
20.5' LT STA 25+75
H GRATE 678.80
H 12" 676.80

PR STORM SEWERS,
CL A, TY 1
12"x348.5'

BEGIN CAMPBELL RD
PAVEMENT STA 24+00.00

EX GRAIN BINS

CONSTRUCTION
LIMITS

PR TEMPORARY
EASEMENT

PR ROW
LINE

PR PIPE CULVERTS
CL D TY 1 15"x40'

PR ROW
LINE

STA 30+18.22 (CAMPBELL RD) =
STA 155+80.21 (NINE MILE LANE)

PT STA
30+00.09

CONSTRUCTION LIMITS

CONSTRUCTION LIMITS

PI STA. = 28+54.07
Δ = 51° 36' 13" (LT)
D = 16° 22' 13"
R = 350.00'
T = 169.21'
L = 315.23'
E = 38.76'
e = 4.0%
T.R. = 25
S.E. RUN = 67
P.C. STA. = 26+84.86
P.T. STA. = 30+00.09
ATTAIN SE STA 26+15.86 TO STA 27+07.86
REMOVE SE STA 29+77.09 TO STA 30+06.22

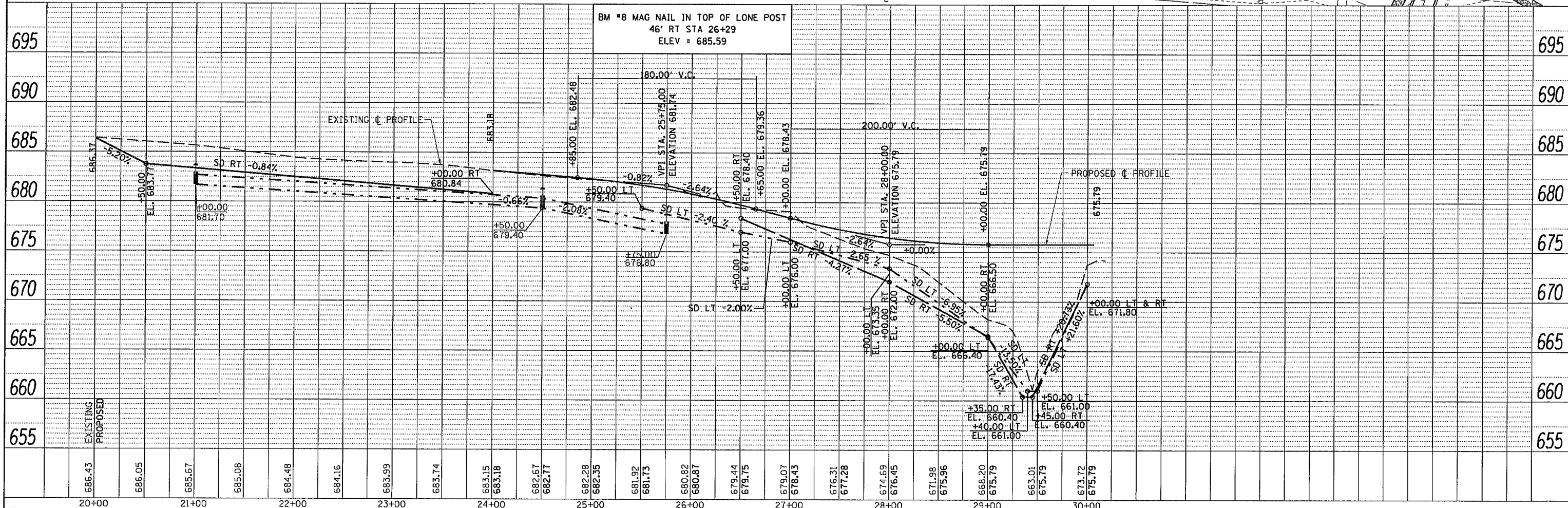
W1-2(L)
(3030)

W13-1P
(1818)



W3-1
(30x30)

GHAROLD L WELLER
TESTAMENTARY TRUST-TRUST B



DATE	
BY	
NO.	
DATE	
BY	
NO.	
DATE	
BY	
NO.	

CEC Cummins Engineering Corporation
Civil and Structural Engineering

JOB = 2247
FILE NAME = 2247p&p\c1003.dgn
PLOT SCALE = 100.0000' / IN.
PLOT DATE = 12/2/2019

DESIGNED - NAK
DRAWN - TJD
CHECKED - NAK
DATE - 1/25/2011

REVISED -
REVISED -
REVISED -
REVISED -

**MACOUPIN COUNTY
FAS 731 & 1736 IMPROVEMENTS**

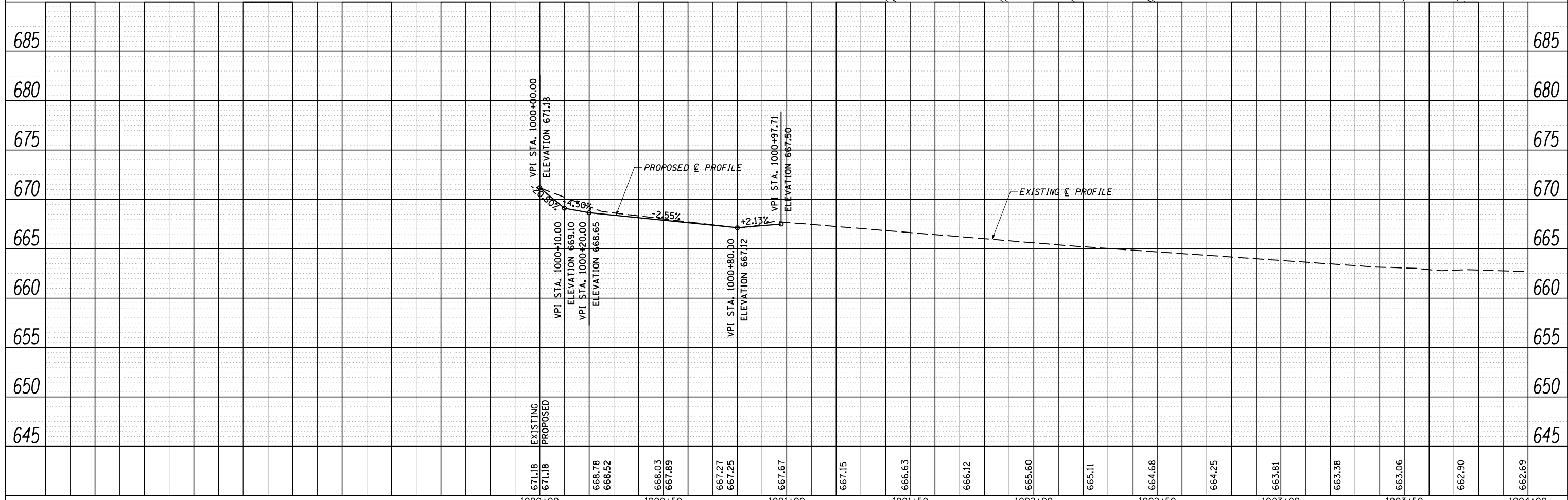
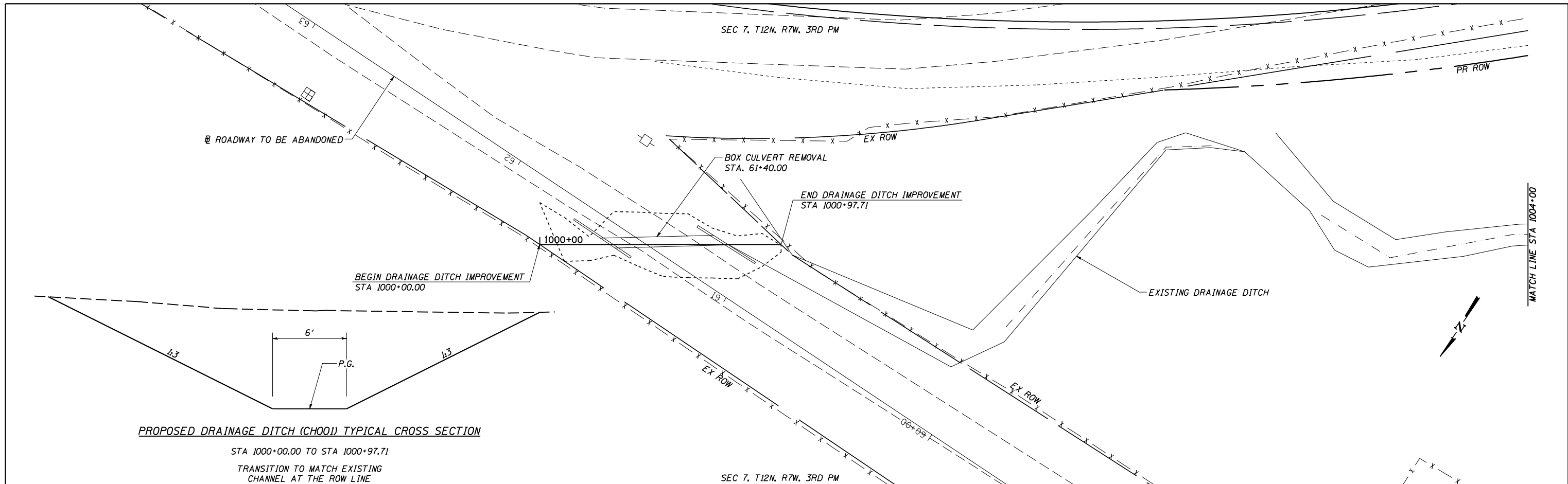
**CAMPBELL RD
PLAN & PROFILE**

SCALE: SHEET NO. OF SHEETS STA. 24+00.00 TO STA. 30+18.22

F.A.S. RTE. 731&1736	SECTION 02-00082-00-FP	COUNTY MACOUPIN	TOTAL SHEETS 95	SHEET NO. 26
CONTRACT NO. 93732			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

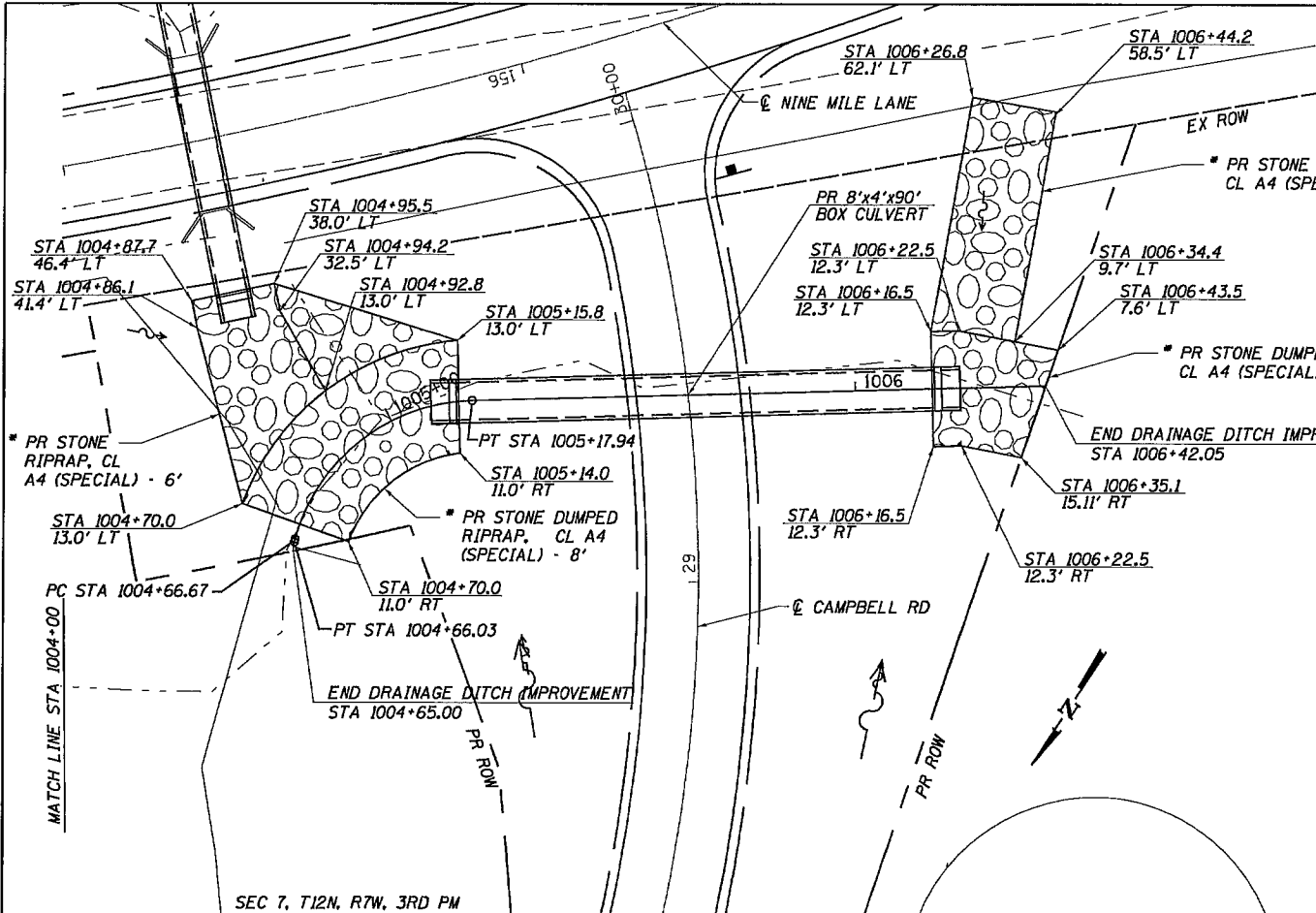
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	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

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

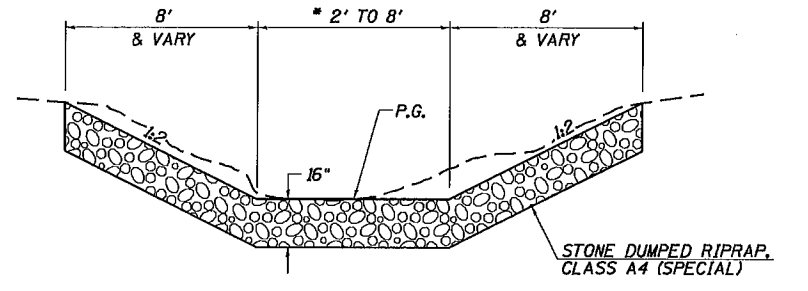


CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2247	DESIGNED - NAK	REVISED -	MACOUPIN COUNTY FAS 731 & 1736 IMPROVEMENTS	DRAINAGE DITCH (CH001) PLAN & PROFILE	F.A.S. RTE. 731&1736	SECTION 02-00082-00-FP	COUNTY MACOUPIN	TOTAL SHEETS 95	SHEET NO. 27
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	PLOT SCALE = 48,0000 "/ IN.	CHECKED - NAK	REVISED -							
	PLOT DATE = 3/18/2019	DATE - 2/17/2011	REVISED -							

DATE	
BY	
PLAN	
NOTE BOOK	
NO.	
CHECKED	
FILE NAME	
ADD. FILE NAME	
NO.	

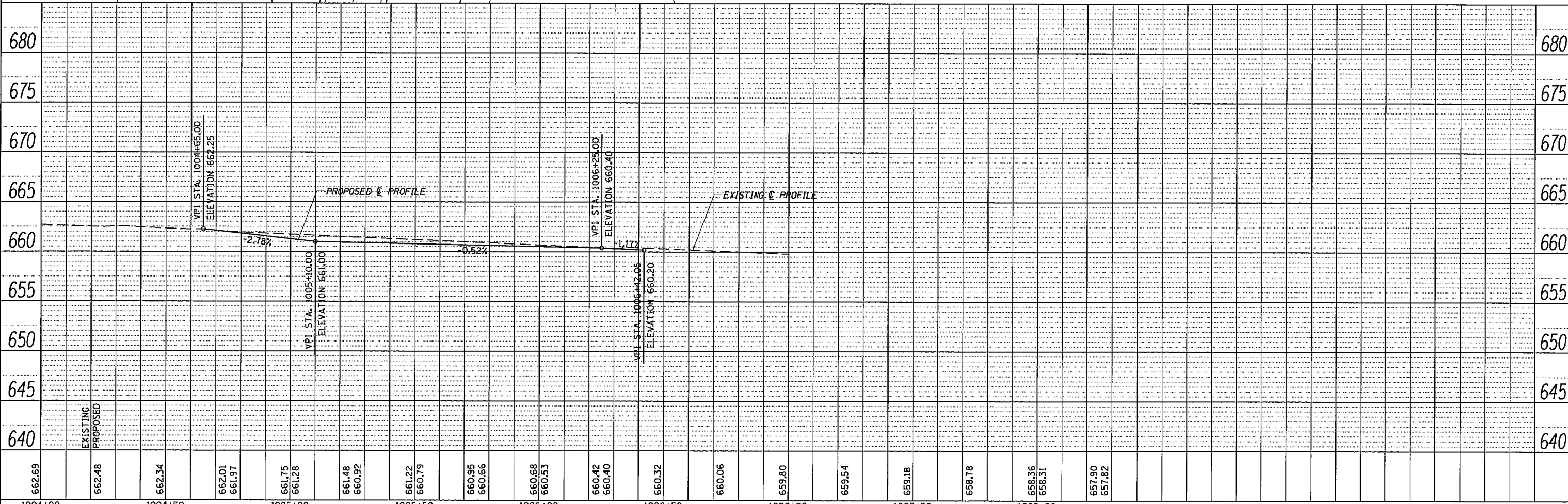


RIPRAP LAYOUT				
STATION	OFFSET (FT)	SIDE	COORDINATES	
			NORTHING	EASTING
1004+70.0	13.0	LT	1031757.59	2364793.46
1004+70.0	11.0	RT	1031751.92	2364770.14
1004+86.1	41.4	LT	1031731.80	2364822.31
1004+87.7	46.4	LT	1031727.57	2364826.57
1004+92.8	13.0	LT	1031727.84	2364792.08
1004+94.2	32.5	LT	1031719.04	2364809.62
1004+95.5	38.0	LT	1031714.81	2364813.87
1005+14.0	11.0	RT	1031723.08	2364760.86
1005+15.8	13.0	LT	1031703.38	2364774.67
1006+16.5	12.3	LT	1031645.70	2364691.18
1006+16.5	12.3	RT	1031665.83	2364677.07
1006+22.5	12.3	LT	1031642.25	2364686.26
1006+22.5	12.3	RT	1031662.39	2364672.17
1006+26.8	62.1	LT	1031599.15	2364711.48
1006+34.4	9.7	LT	1031637.62	2364675.07
1006+36.7	15.1	RT	1031657.50	2364660.21
1006+44.2	58.5	LT	1031591.96	2364664.98
1006+44.6	7.4	LT	1031634.03	2364666.39



PROPOSED TYPICAL SECTION THRU RIPRAP DITCH
 STA 1004+70.00 TO STA 1005+15.80
 STA 1006+16.50 TO STA 1006+44.20
 STA 1007+85.00 TO STA 1008+35.84

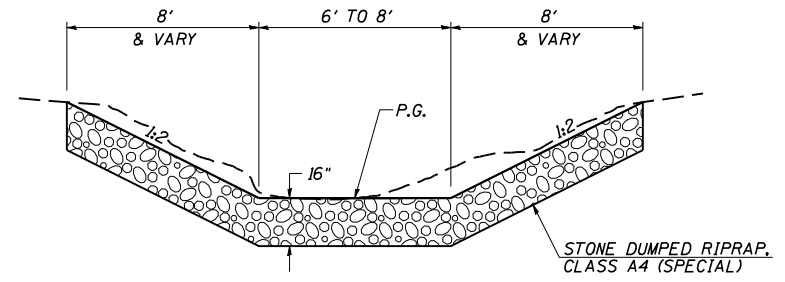
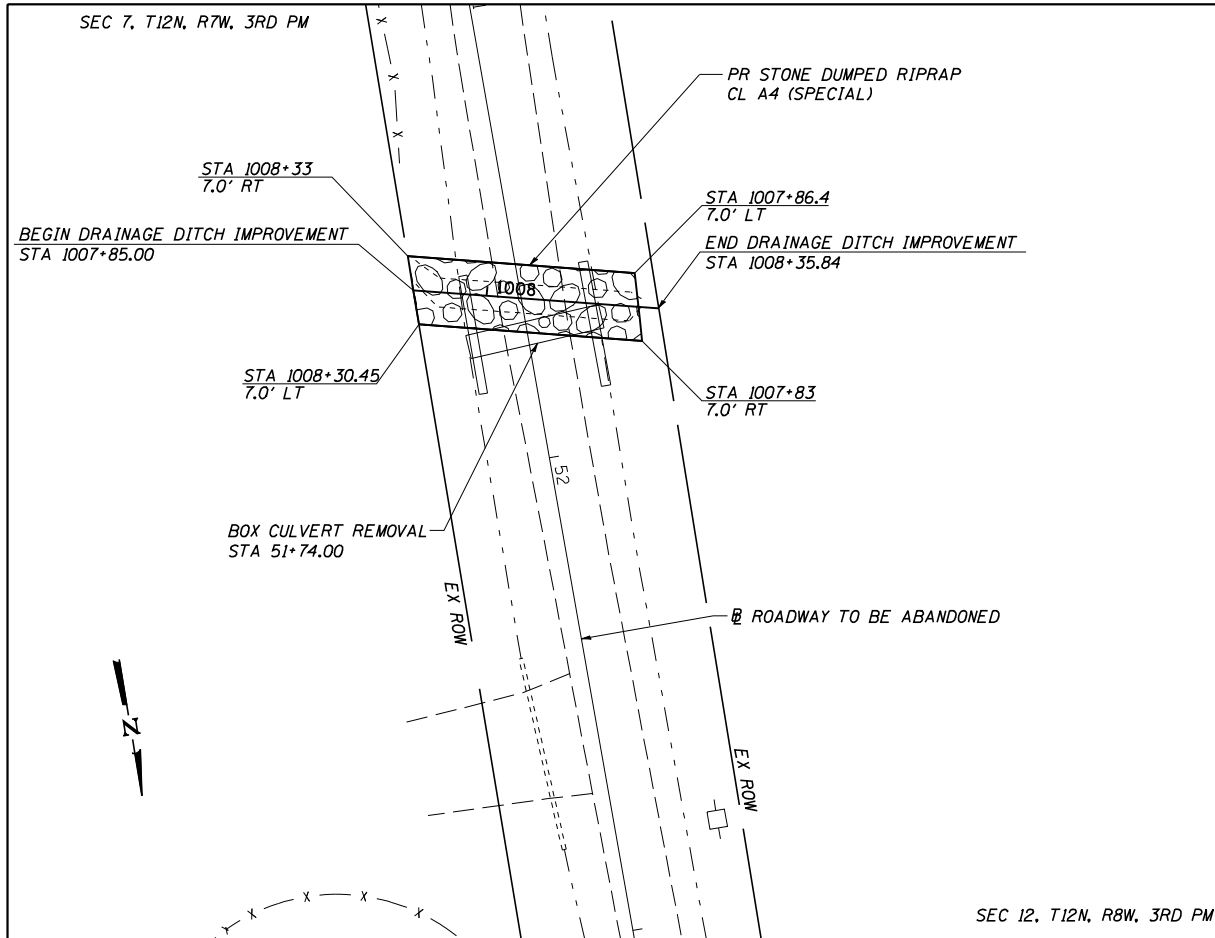
DATE	
BY	
PROFILE	
NOTE BOOK	
NO.	
CHECKED	
STRUCTURE	
NOTATION	
CHKD	



CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2247	DESIGNED - NAK	REVISED -	MACOU PIN COUNTY FAS 731 & 1736 IMPROVEMENTS	DRAINAGE DITCH (CH001) PLAN & PROFILE	F.A.S. RTE. 731&1736	SECTION 02-00082-00-FP	COUNTY MACOU PIN	TOTAL SHEETS 95	SHEET NO. 28	CONTRACT NO. 93732 ILLINOIS FED. AID PROJECT
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	PLOT DATE = #DATE#	DATE - 2/17/2011	REVISED -								

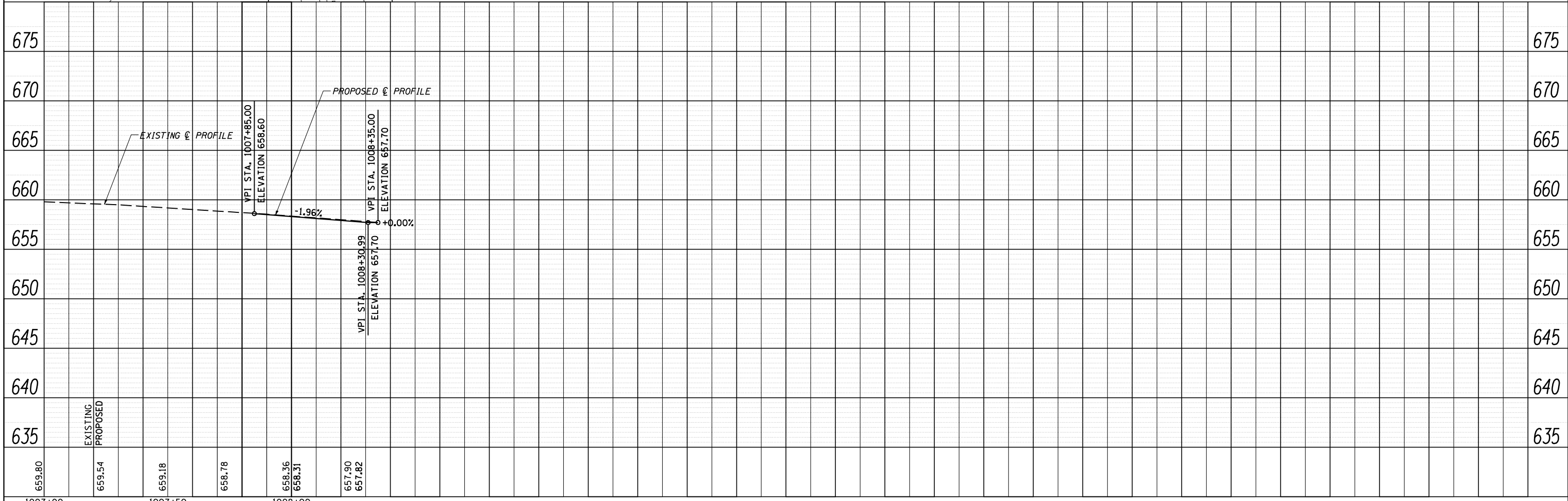
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	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

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



PROPOSED TYPICAL SECTION THRU RIPRAP DITCH

STA 1004+70.00 TO STA 1005+15.80
 STA 1006+16.50 TO STA 1006+43.50
 STA 1007+85.00 TO STA 1008+35.84

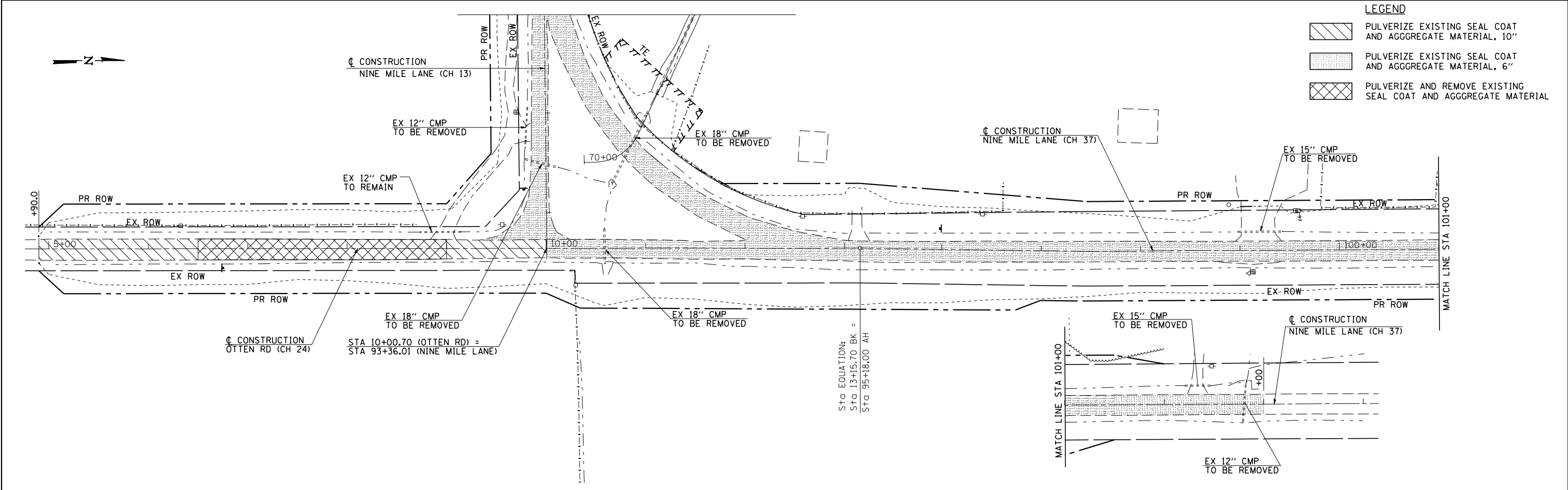
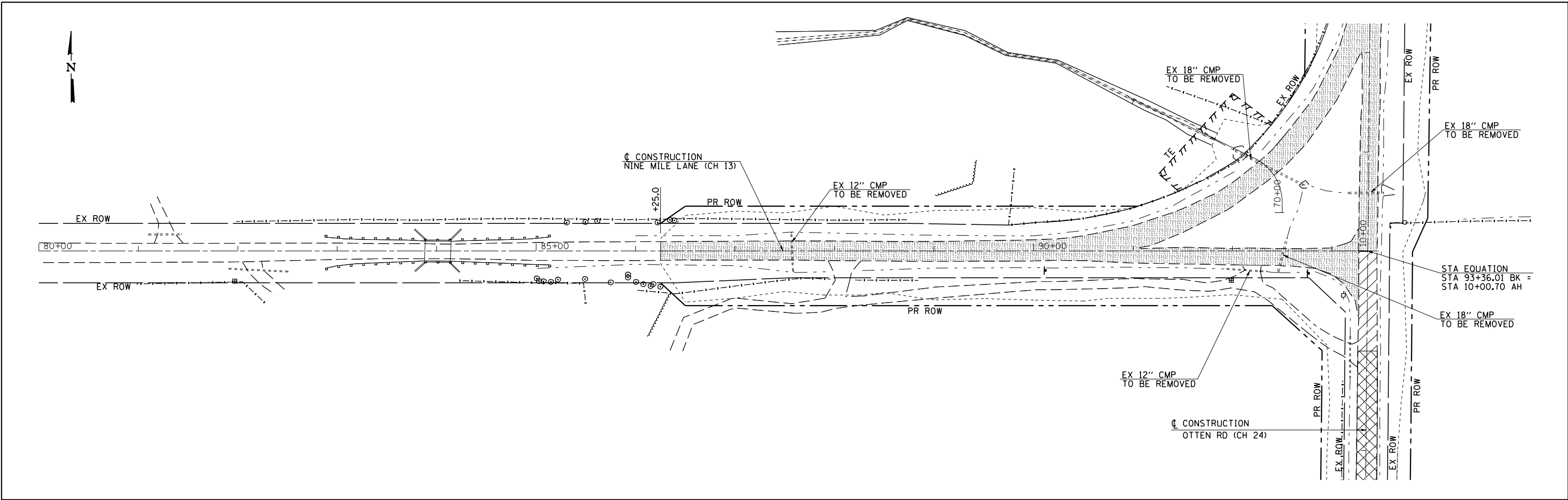





CEC Civil and Structural Engineering	Cummins Engineering Corporation	JOB = 2247	DESIGNED - NAK	REVISED -
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MACOUPIN COUNTY
FAS 731 & 1736 IMPROVEMENTS

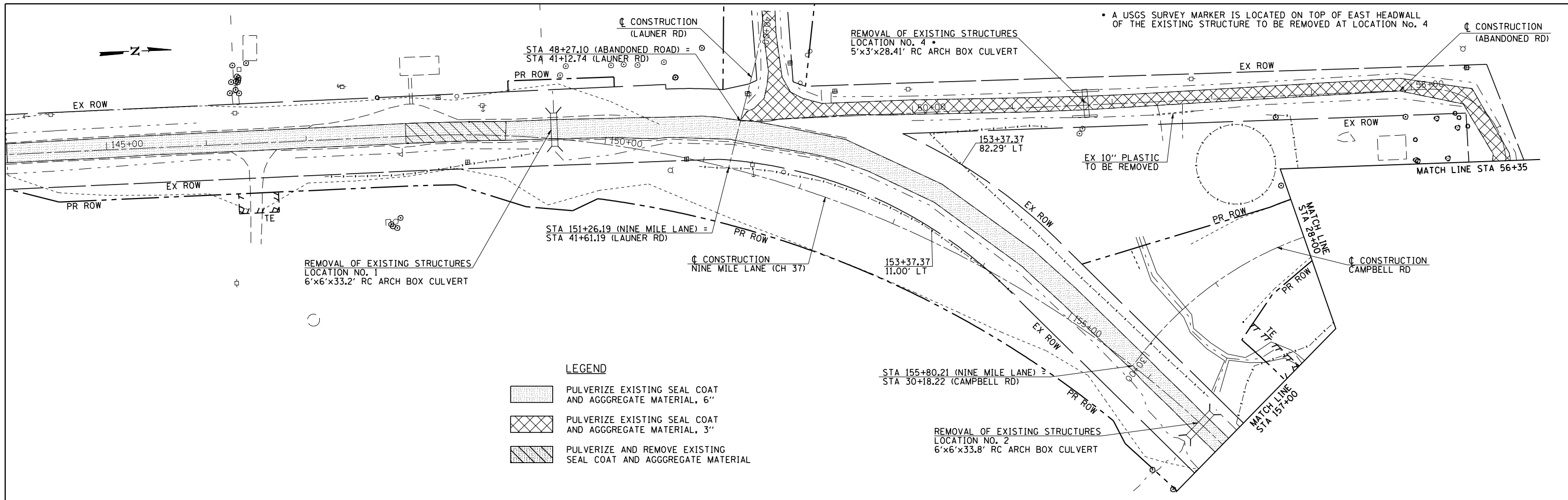
DRAINAGE DITCH (CH001)			
PLAN & PROFILE			
SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
731&1736	02-00082-00-FP	MACOUPIN	95	29
FED. ROAD DIST. NO.			CONTRACT NO. 93732	
ILLINOIS FED. AID PROJECT				



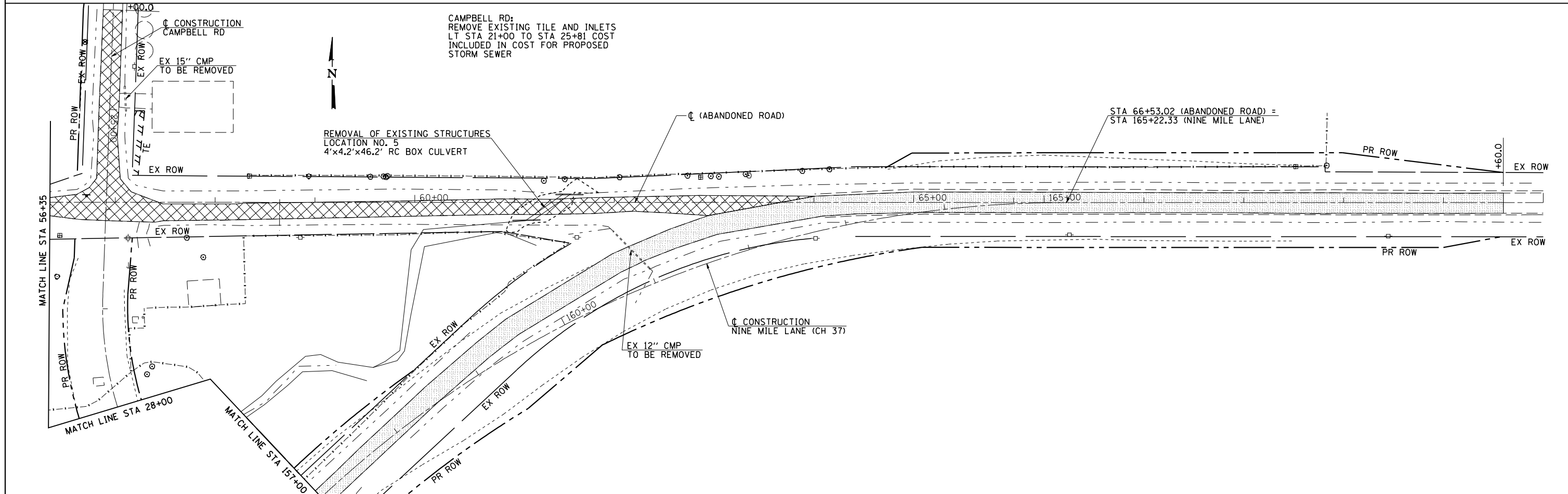
- LEGEND**
-  PULVERIZE EXISTING SEAL COAT AND AGGREGATE MATERIAL, 10"
 -  PULVERIZE EXISTING SEAL COAT AND AGGREGATE MATERIAL, 6"
 -  PULVERIZE AND REMOVE EXISTING SEAL COAT AND AGGREGATE MATERIAL

 Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2247	DESIGNED - NAK	REVISED -	MACOUPIN COUNTY FAS 731 & 1736 IMPROVEMENTS	REMOVAL PLAN			F.A.S. RTE. 731&1736	SECTION 02-00082-00-FP	COUNTY MACOUPIN	TOTAL SHEETS 95	SHEET NO. 30
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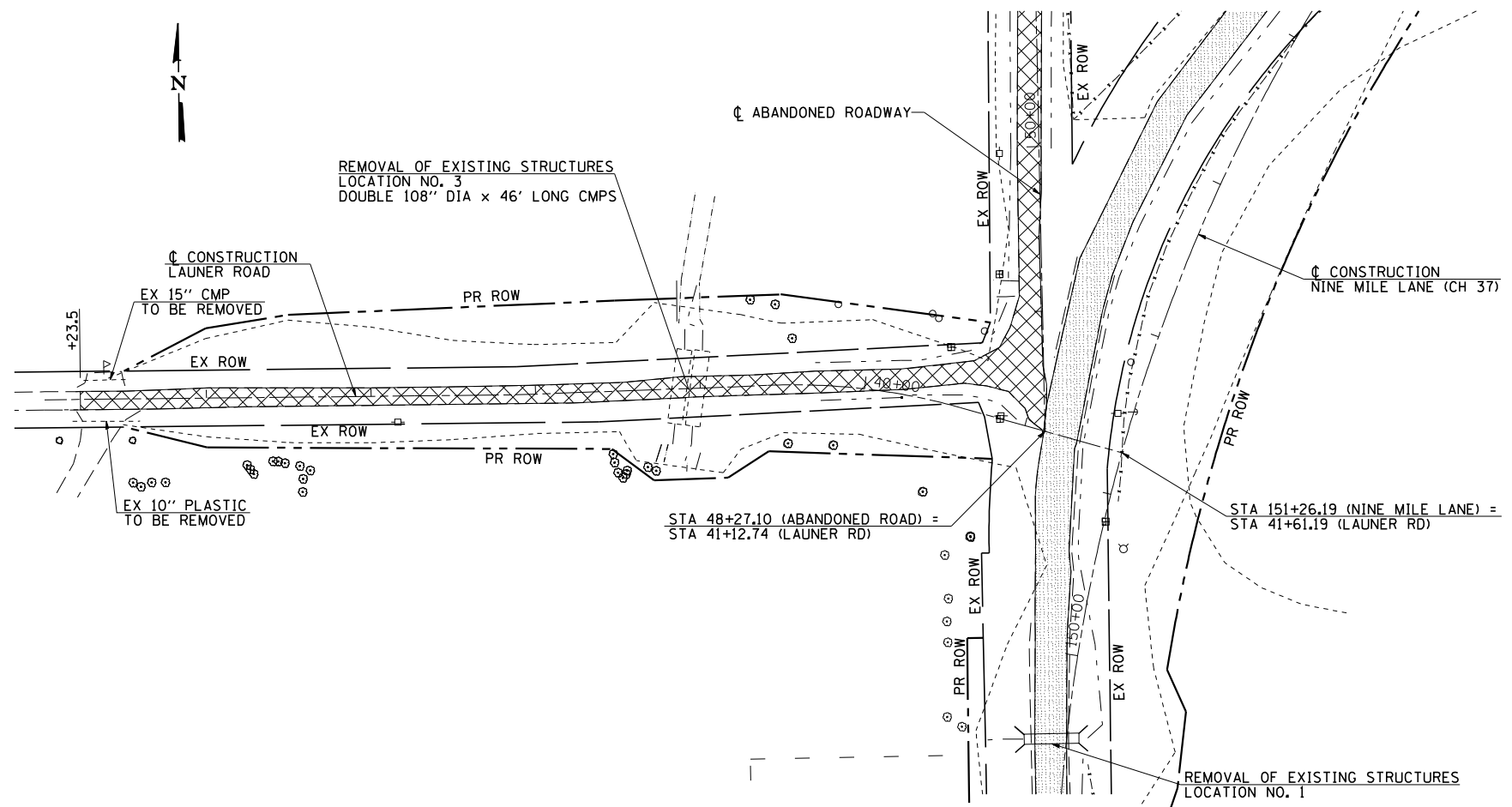


LEGEND



	PULVERIZE EXISTING SEAL COAT AND AGGREGATE MATERIAL, 6"
	PULVERIZE EXISTING SEAL COAT AND AGGREGATE MATERIAL, 3"
	PULVERIZE AND REMOVE EXISTING SEAL COAT AND AGGREGATE MATERIAL



Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2247	DESIGNED - NAK	REVISED -	MACOUPIN COUNTY FAS 731 & 1736 IMPROVEMENTS	REMOVAL PLAN			F.A.S. RTE. = 731&1736	SECTION = 02-00082-00-FP	COUNTY = MACOUPIN	TOTAL SHEETS = 95	SHEET NO. = 31
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PLOT DATE = 3/18/2019	DATE = 2/17/2011	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.						



LEGEND

	PULVERIZE EXISTING SEAL COAT AND AGGREGATE MATERIAL, 6"
	PULVERIZE EXISTING SEAL COAT AND AGGREGATE MATERIAL, 3"



JOB = 2247	DESIGNED - NAK	REVISED -
FILE NAME = 2247rem3.dgn	DRAWN - TJD	REVISED -
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PLOT DATE = 3/18/2019	DATE - 2/17/2011	REVISED -

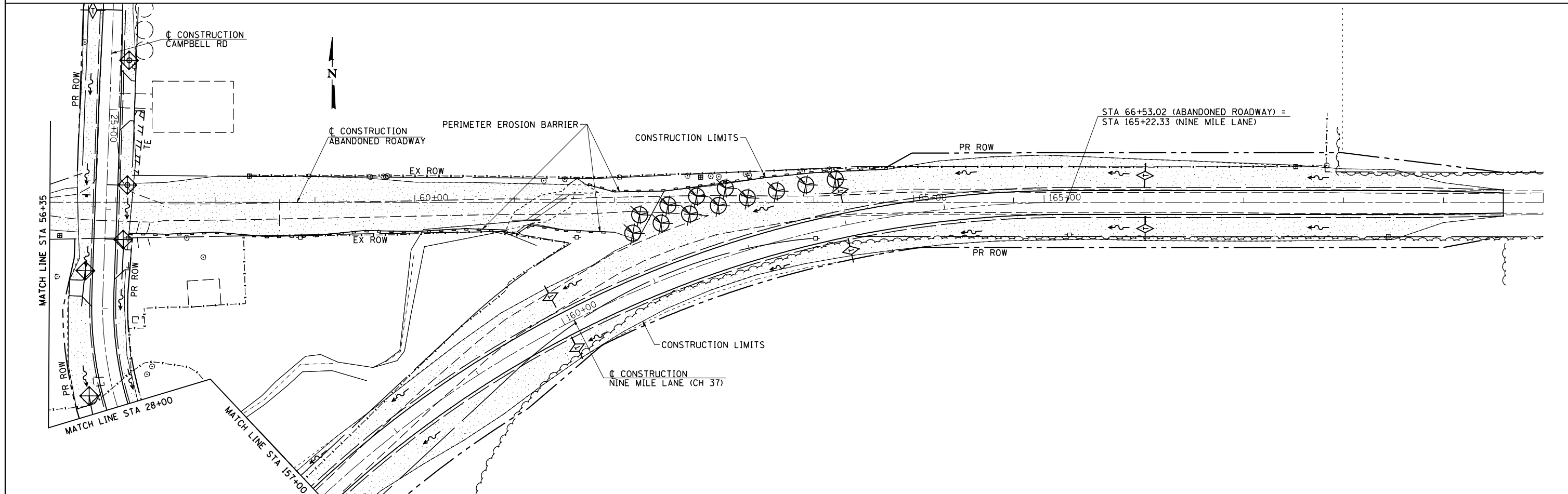
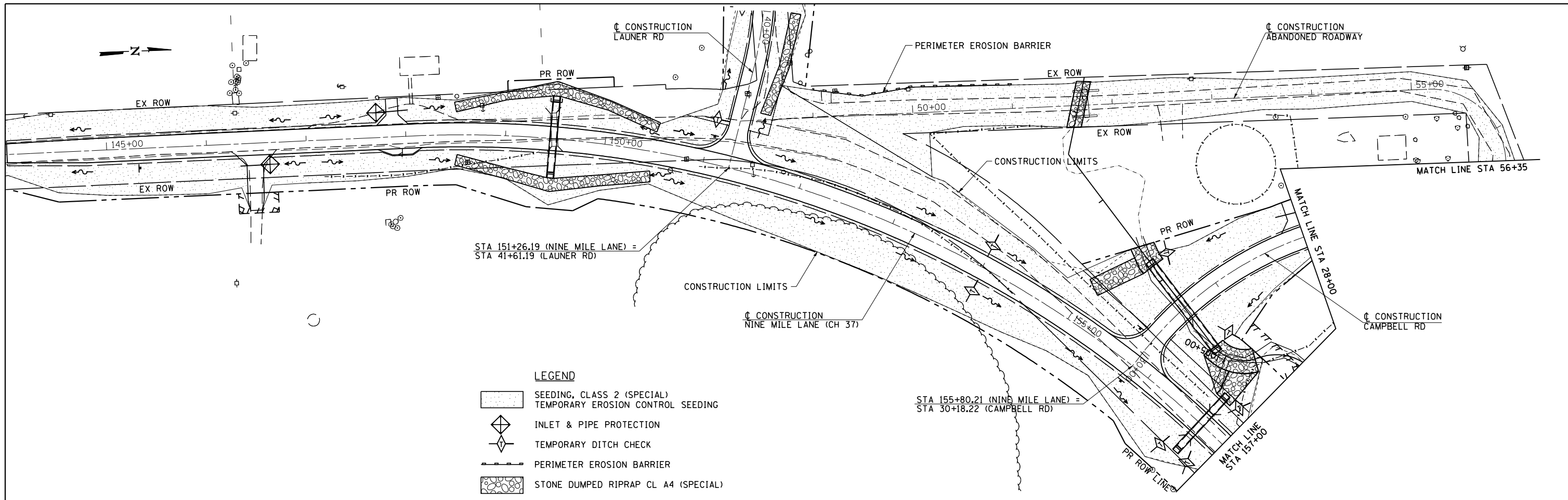
**MACOUPIN COUNTY
FAS 731 & 1736 IMPROVEMENTS**

REMOVAL PLAN

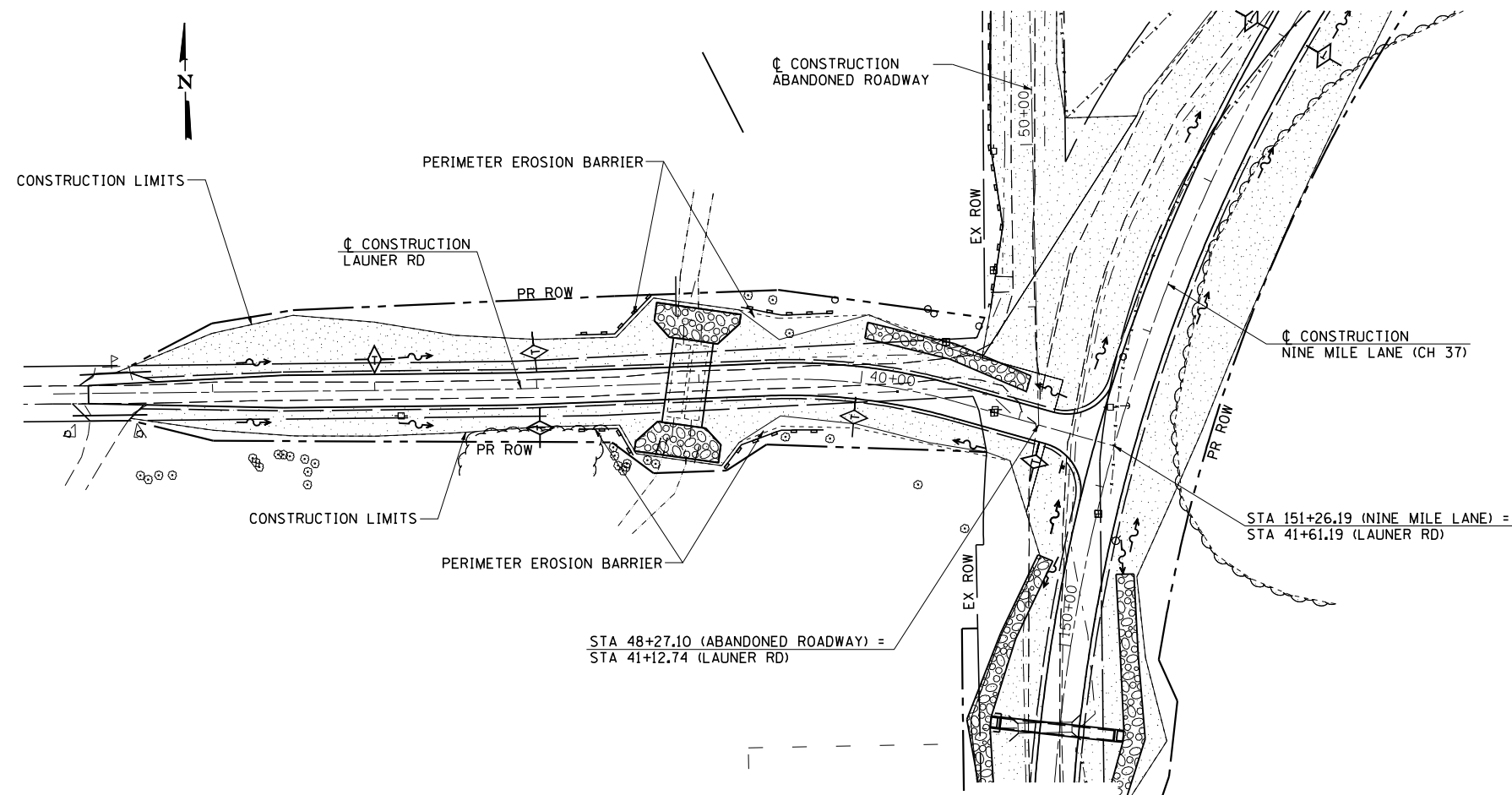
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F.A.S. RTE. 731&1736	SECTION 02-00082-00-FP	COUNTY MACOUPIN	TOTAL SHEETS 95	SHEET NO. 32
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 93732

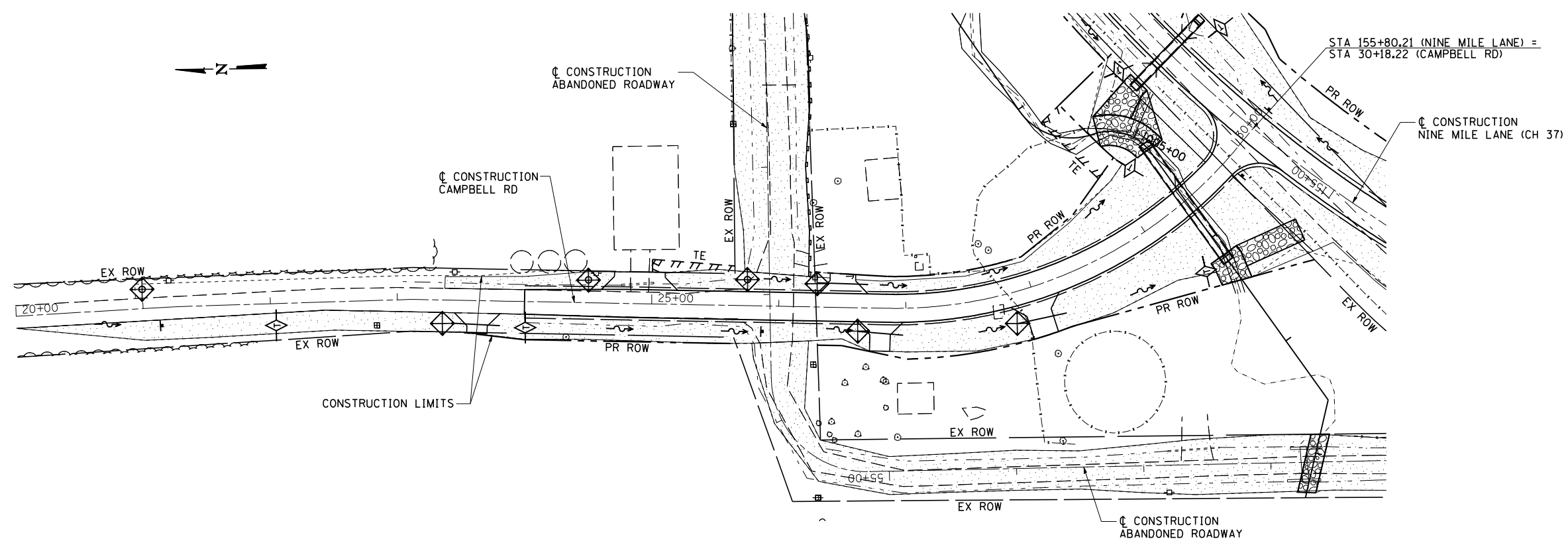


CEC Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2247	DESIGNED - NAK	REVISED -	MACOUPIN COUNTY FAS 731 & 1736 IMPROVEMENTS	EROSION CONTROL PLAN			F.A.S. RTE. 731&1736	SECTION 02-00082-00-FP	COUNTY MACOUPIN	TOTAL SHEETS 95	SHEET NO. 34
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PLOT DATE = 3/18/2019	DATE - 2/17/2011	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.						



LEGEND

	SEEDING, CLASS 2 (SPECIAL) TEMPORARY EROSION CONTROL SEEDING
	INLET & PIPE PROTECTION
	TEMPORARY DITCH CHECK
	PERIMETER EROSION BARRIER
	STONE DUMPED RIPRAP CL A4 (SPECIAL)



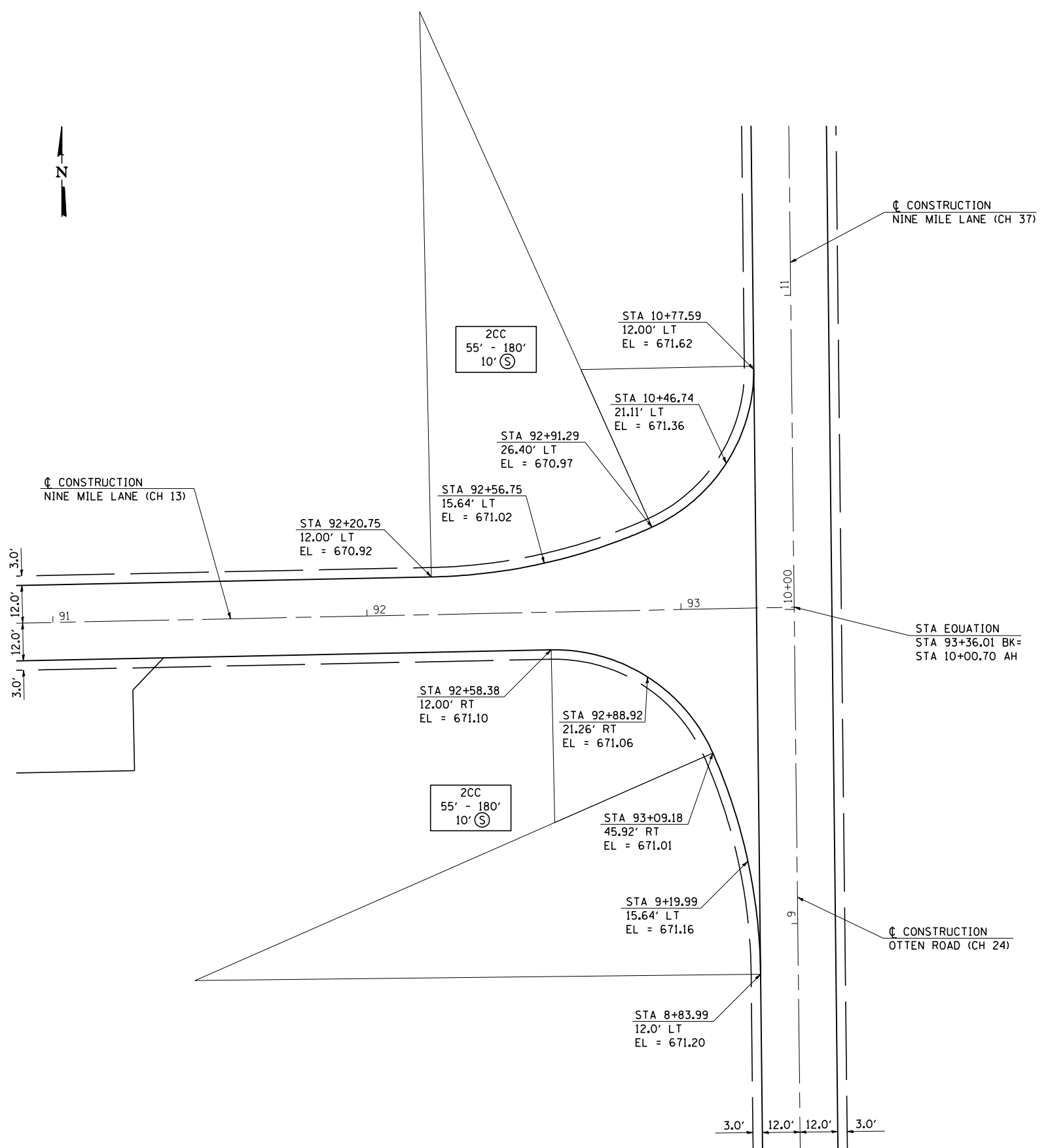
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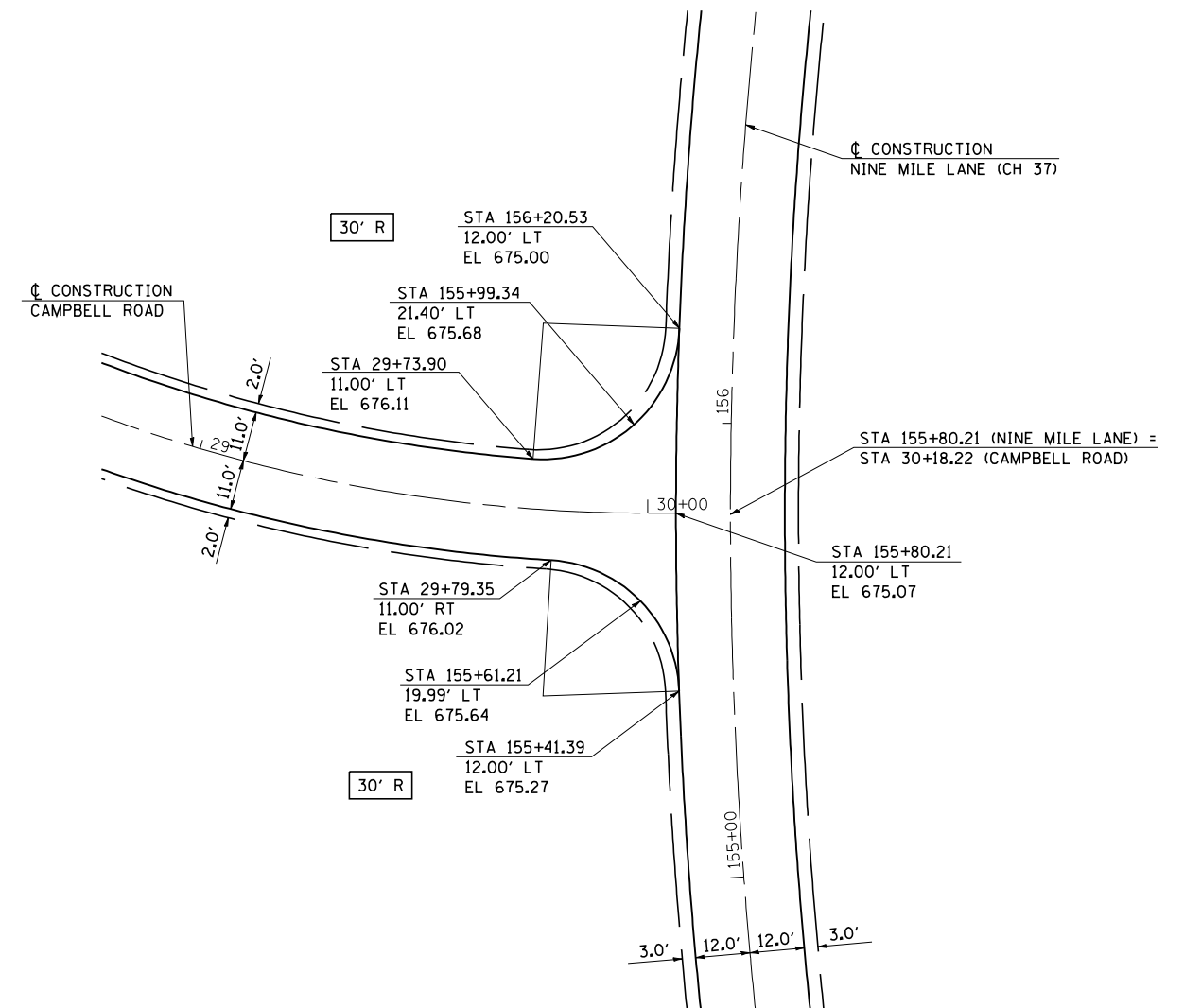
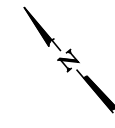
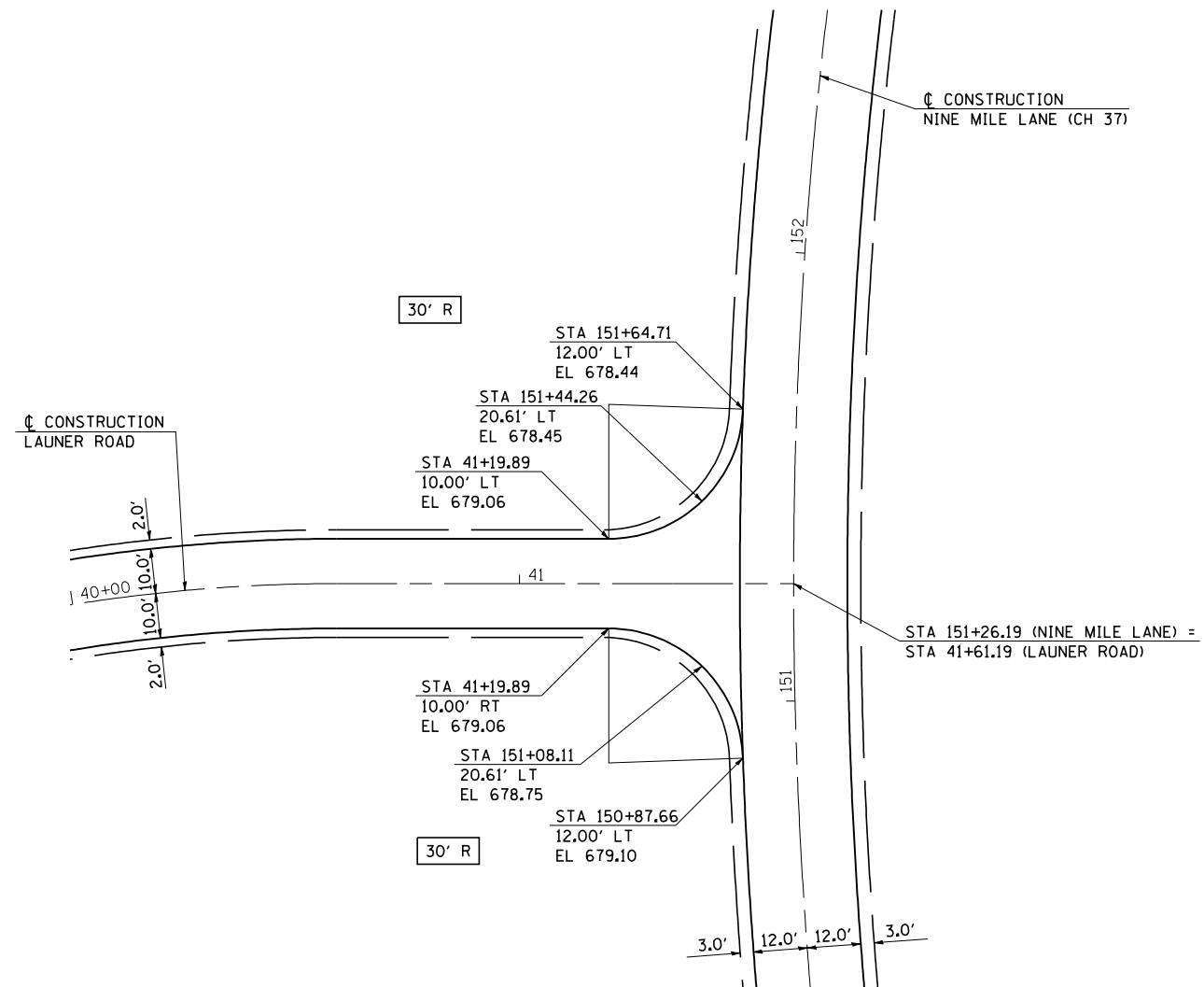
**MACOUPIN COUNTY
FAS 731 & 1736 IMPROVEMENTS**

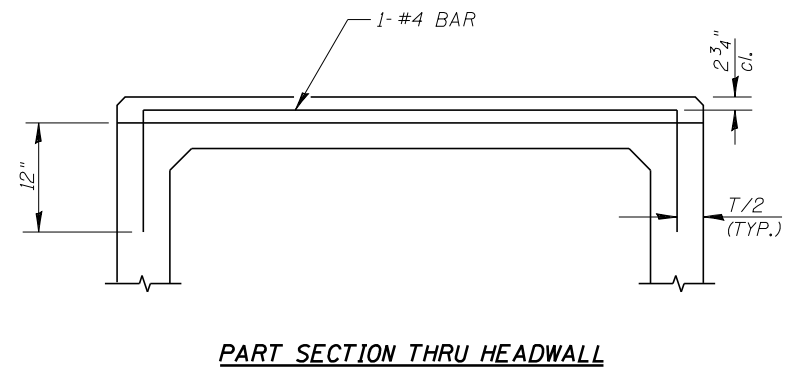
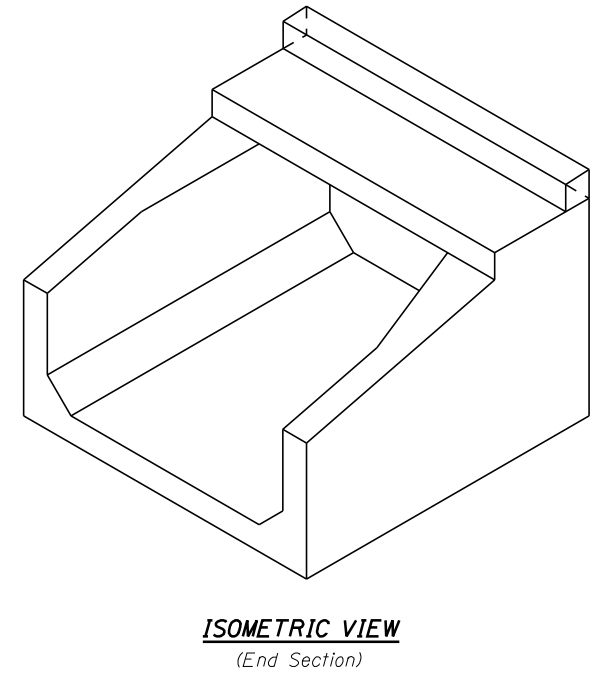
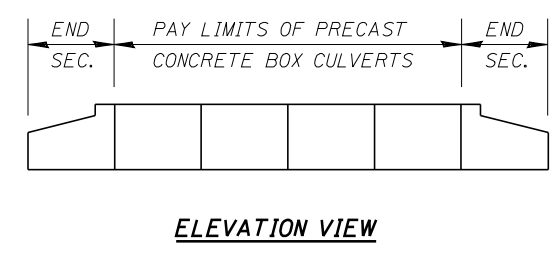
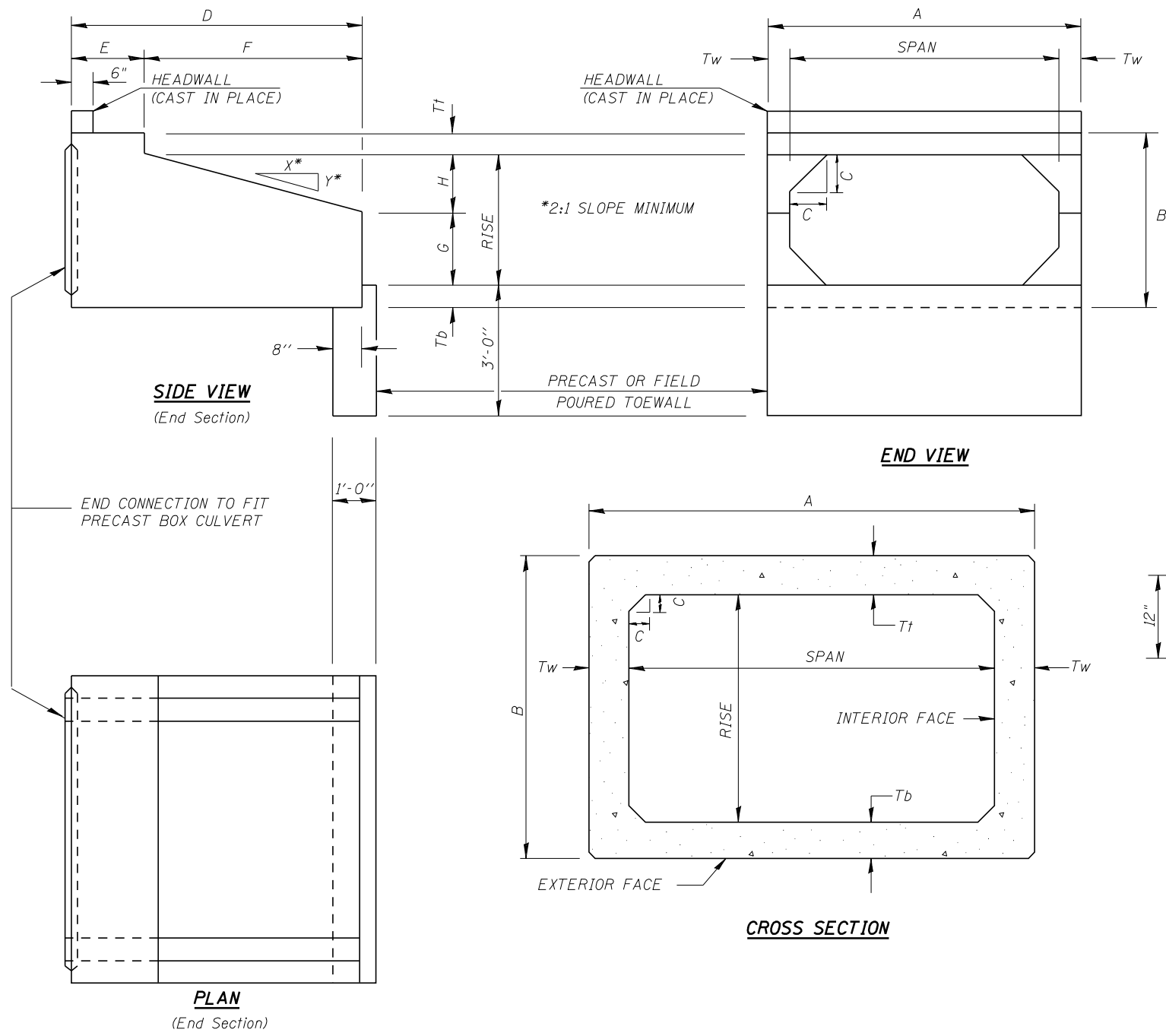
EROSION CONTROL PLAN

SCALE:	SHEET NO. OF SHEETS	STA. TO STA.
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F.A.S. RTE. 731&1736	SECTION 02-00082-00-FP	COUNTY MACOUPIN	TOTAL SHEETS 95	SHEET NO. 35
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT CONTRACT NO. 93732		







DESIGN SPECIFICATIONS
 2002 AASHTO
LOADING HS20-44
 Allow 50 psf for future wearing surface

DESIGN STRESSES (PRECAST)
 $f'_c = 5,000$ psi
 $f_y = 65,000$ psi (welded wire fabric)
 $f_y = 60,000$ psi (reinforcement)

SEE SCHEDULE ON SHEET 13 FOR LENGTHS OF PRECAST CONCRETE BOX CULVERTS

Notes:
 All precast concrete box culvert sections shall conform to the requirements of Article 540 of the Standard Specifications, and shall be constructed in accordance with the Bureau of Materials and Physical Research (BMPR) Policy Memorandum 07-22 for the Quality Control/Quality Assurance Program for Precast Concrete Products. In addition, the precast culverts shall be designed in accordance with the AASHTO Specification designated in the Design Details table.
 Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60.
 Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.

PRECAST CONCRETE BOX CULVERT DETAILS

CULVERT LOCATION	Route	Station	Span	Rise	AASHTO Designation	Design Fill Height	Interstate Loading	THICKNESS			A	B	C	D	E	F	G	H	SLOPE X : Y
								Tt (top slab)	Tb (bot. slab)	Tw (wall)									
3	Campbell Road (CH 24)	29+40	8'	4'	M259	11.4'	NO	8"	8"	8"	9'-4"	5'-4"	8"	6'-0"	2'-0"	4'-0"	2'-0"	2'-0"	1:2
2	Nine Mile Lane (CH 37)	156+70	6'	3'	M259	6.4'	NO	7"	7"	7"	7'-2"	4'-2"	7"	6'-0"	2'-0"	4'-0"	1'-8"	1'-4"	1:2
1	Nine Mile Lane (CH 37)	149+48	6'	3'	M259	8.0'	NO	7"	7"	7"	7'-2"	4'-2"	7"	6'-0"	2'-0"	4'-0"	1'-8"	1'-4"	1:2



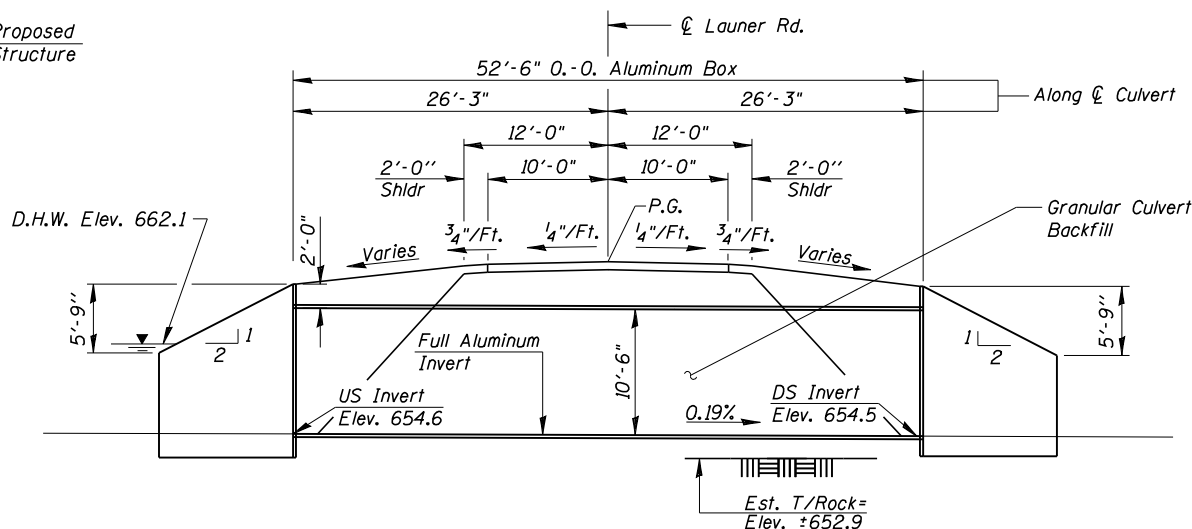
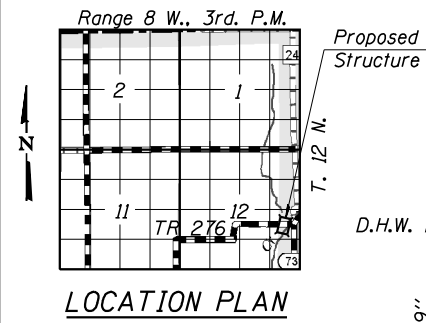
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	CHECKED - TSH	REVISED -

MACOUPIN COUNTY
FAS 731 & 1736 IMPROVEMENTS

DETAIL OF PRECAST CONCRETE BOX CULVERTS AND END SECTIONS

SHEET NO. OF SHEETS

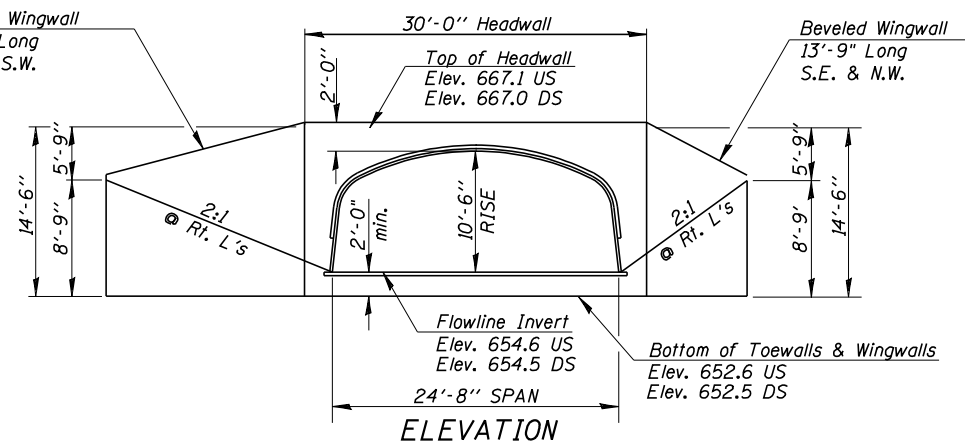
F.A.S. RTE. 731&1736	SECTION 02-00082-00-FP	COUNTY MACOUPIN	TOTAL SHEETS 95	SHEET NO. 38
CONTRACT NO. 93732			ILLINOIS FED. AID PROJECT	



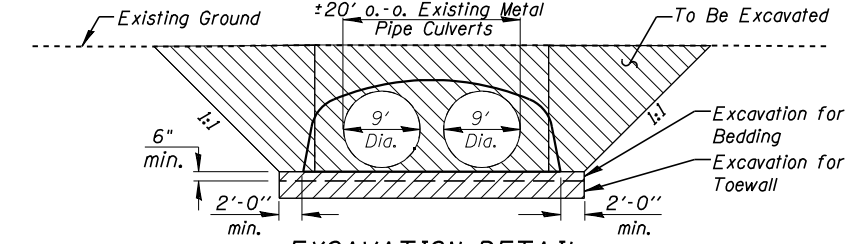
LONGITUDINAL SECTION
(Dim's at Rt. L's to & Rdwy.)

NASSA CREEK
BUILT 20__ BY
MACOUPIN COUNTY
SEC. 02-00082-00-FP
TOWNSHIP ROAD 276
STR. NO. 059-5012 LOADING HL-93

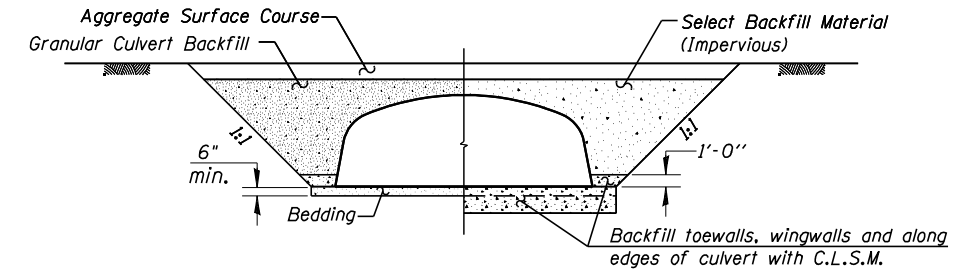
LETTERING FOR NAME PLATE
See Std. 515001
Name Plate shall be Bolted to Aluminum Headwall. See Plan View for Location.



ELEVATION



EXCAVATION DETAIL
(Dim's at Rt. L's)



SECTION THRU BARREL
SECTION THRU END OF CULVERT
BACKFILL DETAIL
(Dim's at Rt. L's)

GENERAL NOTES

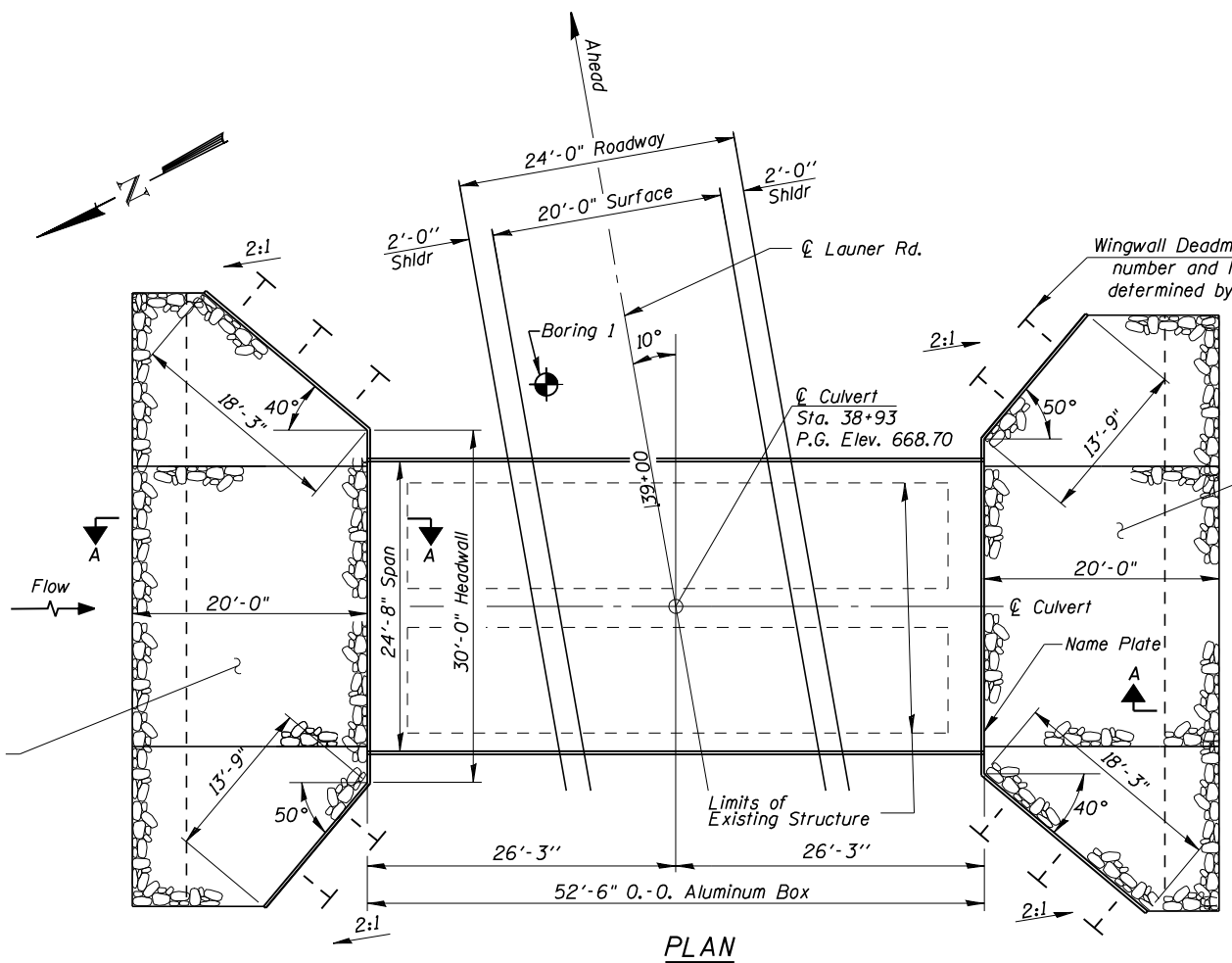
See Special Provisions for Boring Data.
For culvert installation and backfill procedures, see Special Provisions.
Aluminum Box Culvert is to be designed for a fill ranging from 1.4 foot to 4.0 foot in height.
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

TOTAL BILL OF MATERIAL

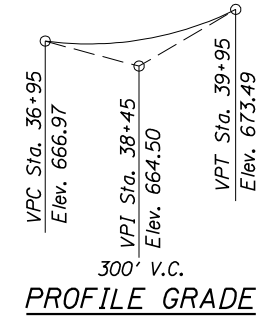
ITEM	UNIT	TOTAL
* Aluminum Box Culvert	Each	1
* Stone Dumped Riprap, Class A4 (Special)	Ton	170
Controlled Low Strength Material	Cu. Yd.	30
Name Plates	Each	1
Removal of Existing Structures No. 3	Each	1
Granular Culvert Backfill	Cu. Yd.	411

* See Special Provisions

GENERAL PLAN & ELEVATION
TR 276 OVER NASSA CREEK
SECTION 02-00082-00-FP
MACOUPIN COUNTY
STATION 38+93
STRUCTURE NO. 059-5012



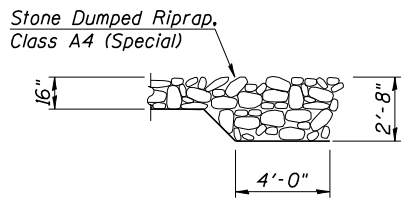
PLAN



PROFILE GRADE

WATERWAY INFORMATION

Drainage Area	3.0 Sq. Mi.
Existing Bridge Opening (15 yr.)	127 Sq. Ft.
Proposed Bridge Opening (15 yr.)	180 Sq. Ft.
Existing Bridge Opening (100 yr.)	127 Sq. Ft.
Proposed Bridge Opening (100 yr.)	204 Sq. Ft.
Design Frequency Discharge (15 yr.)	930 C.F.S.
Created Head (15 yr.)	1.1 Ft.
Discharge (100 yr.)	1500 C.F.S.
Created Head (100 yr.)	1.9 Ft.



SECTION A-A

DESIGN SPECIFICATIONS
2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.
Up to 4" may be ground off the bridge deck and bridge approach slabs.

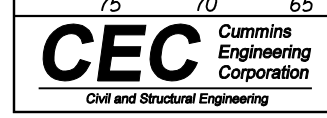
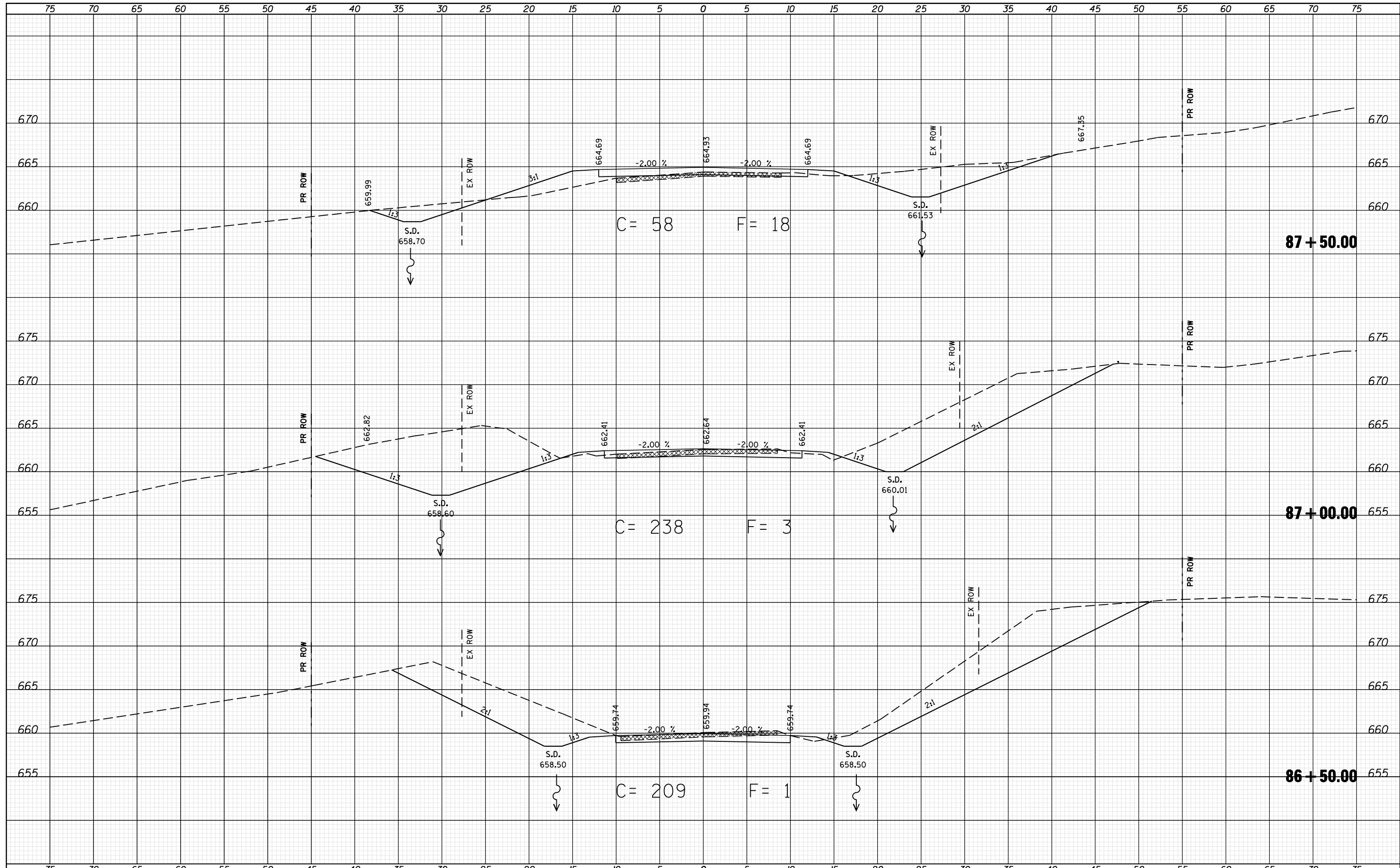


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NORTH PALMYRA ROAD DISTRICT			CONTRACT NO. 93732		
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		

DATE	
BY	
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PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
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DATE	
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ORIGINAL SURVEY	
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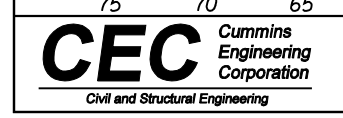
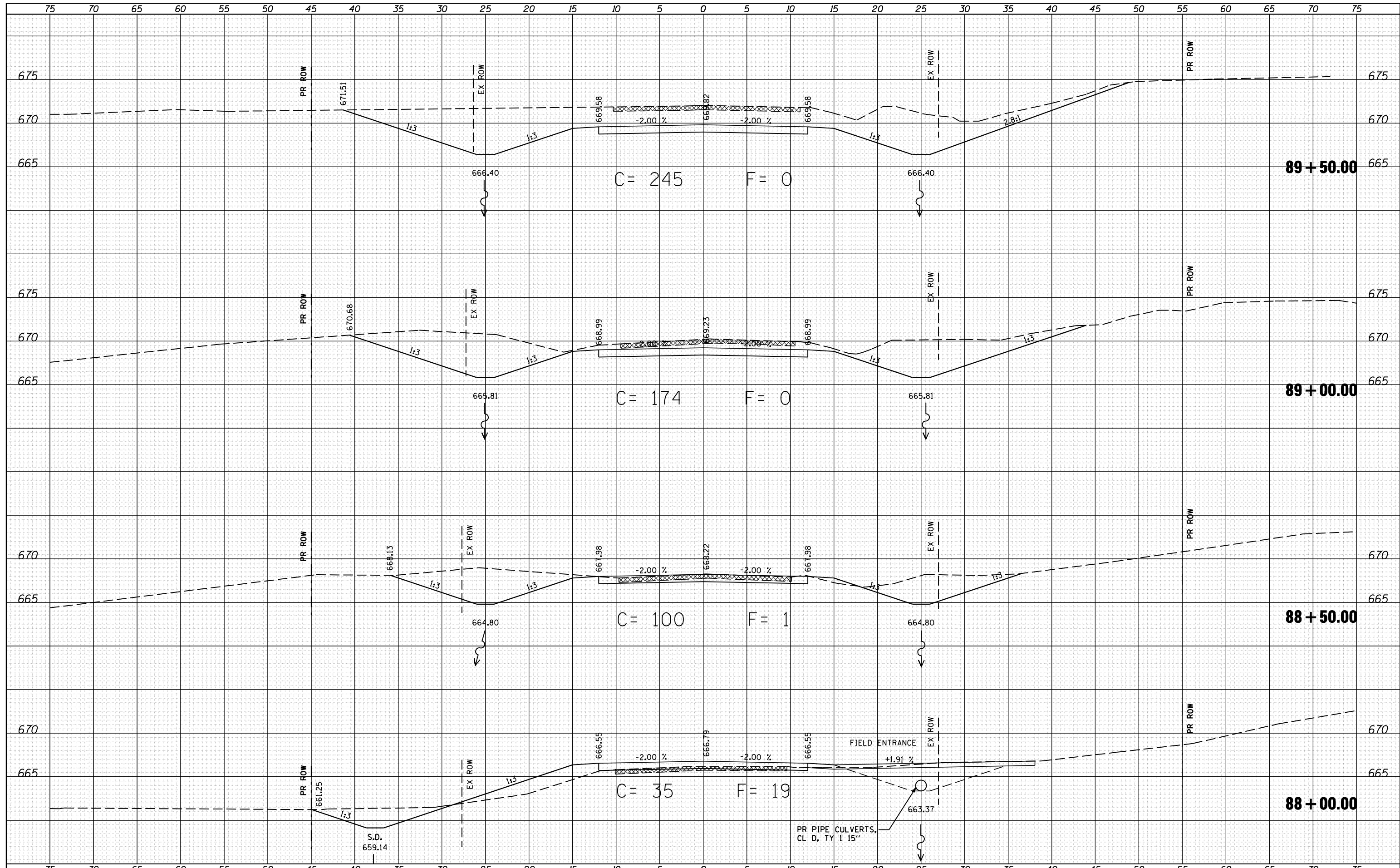
MACOUPIN COUNTY
FAS 731 & 1736 IMPROVEMENTS

NINE MILE LANE			
CROSS SECTIONS			
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F.A.S. RTE. 731&1736	SECTION 02-00082-00-FP	COUNTY MACOUPIN	TOTAL SHEETS 95	SHEET NO. 40
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT CONTRACT NO. 93732		

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NOTE BOOK	PLOTTED
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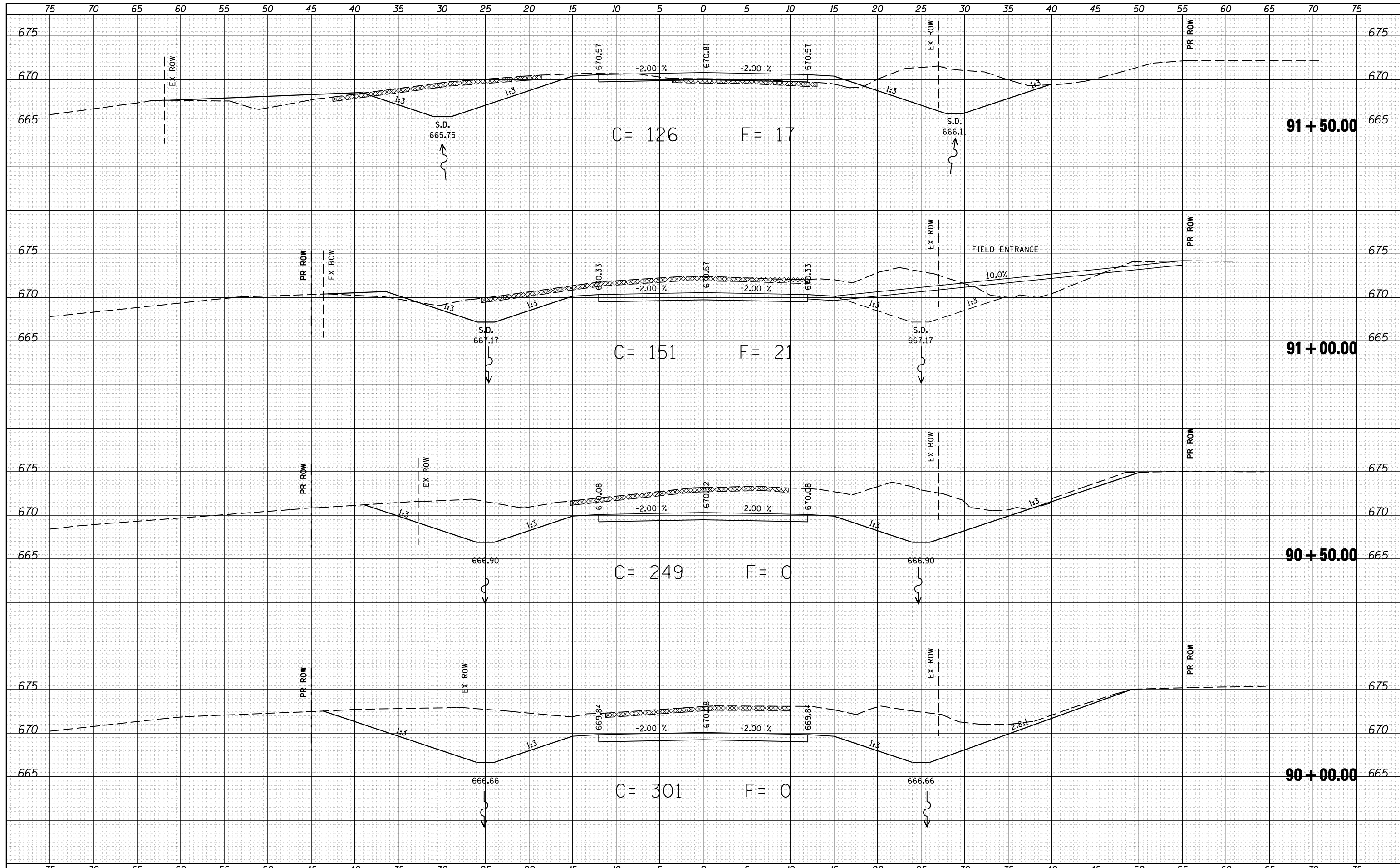
MACOUPIN COUNTY
FAS 731 & 1736 IMPROVEMENTS

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F.A.S. RTE. 731&1736	SECTION 02-00082-00-FP	COUNTY MACOUPIN	TOTAL SHEETS 95	SHEET NO. 41
CONTRACT NO. 93732				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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MACOUPIN COUNTY
FAS 731 & 1736 IMPROVEMENTS

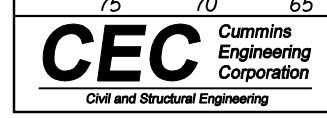
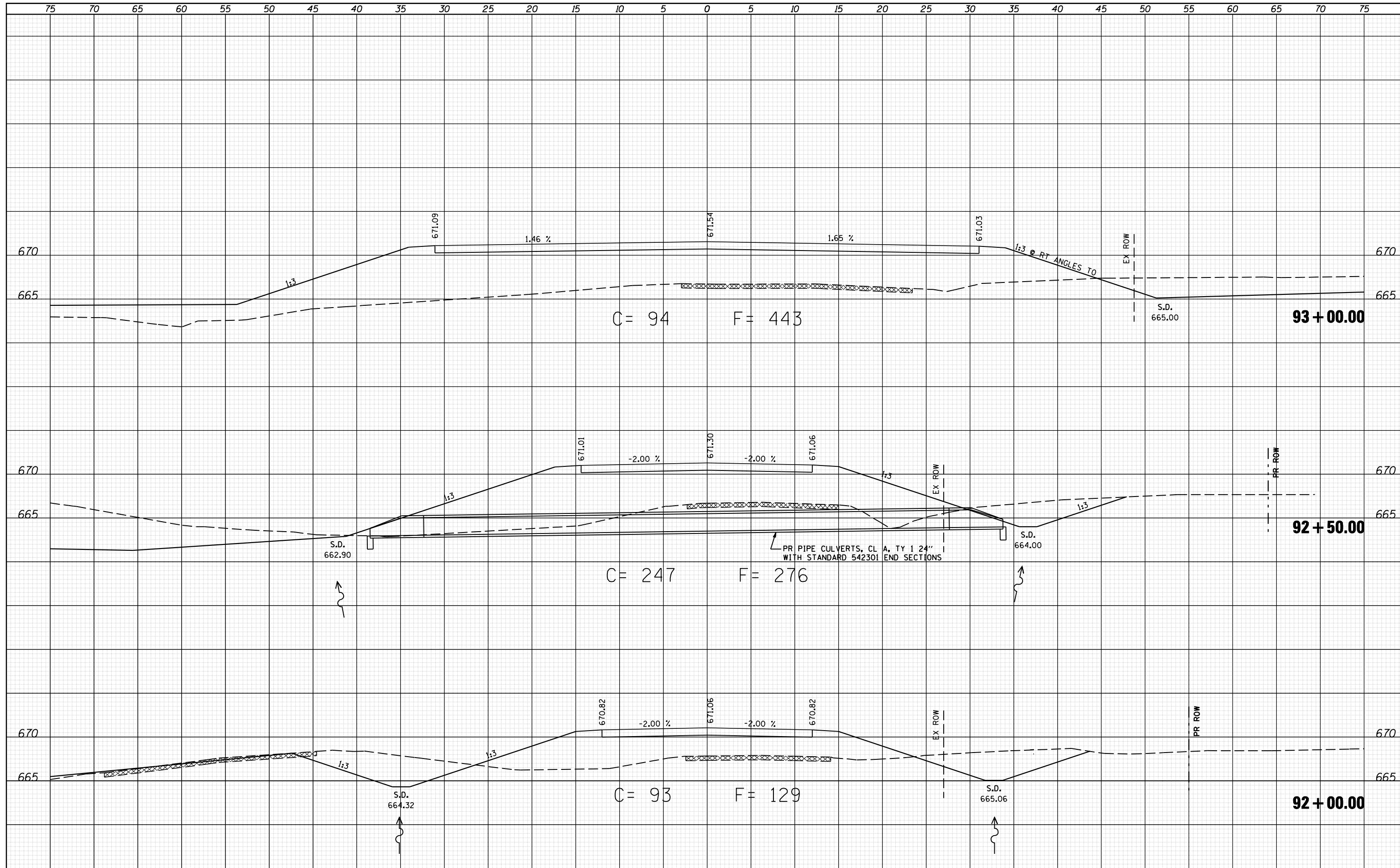
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731&1736	02-00082-00-FP	MACOUPIN	95	42
CONTRACT NO. 93732				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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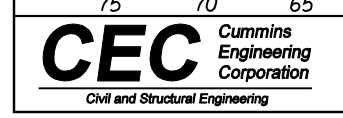
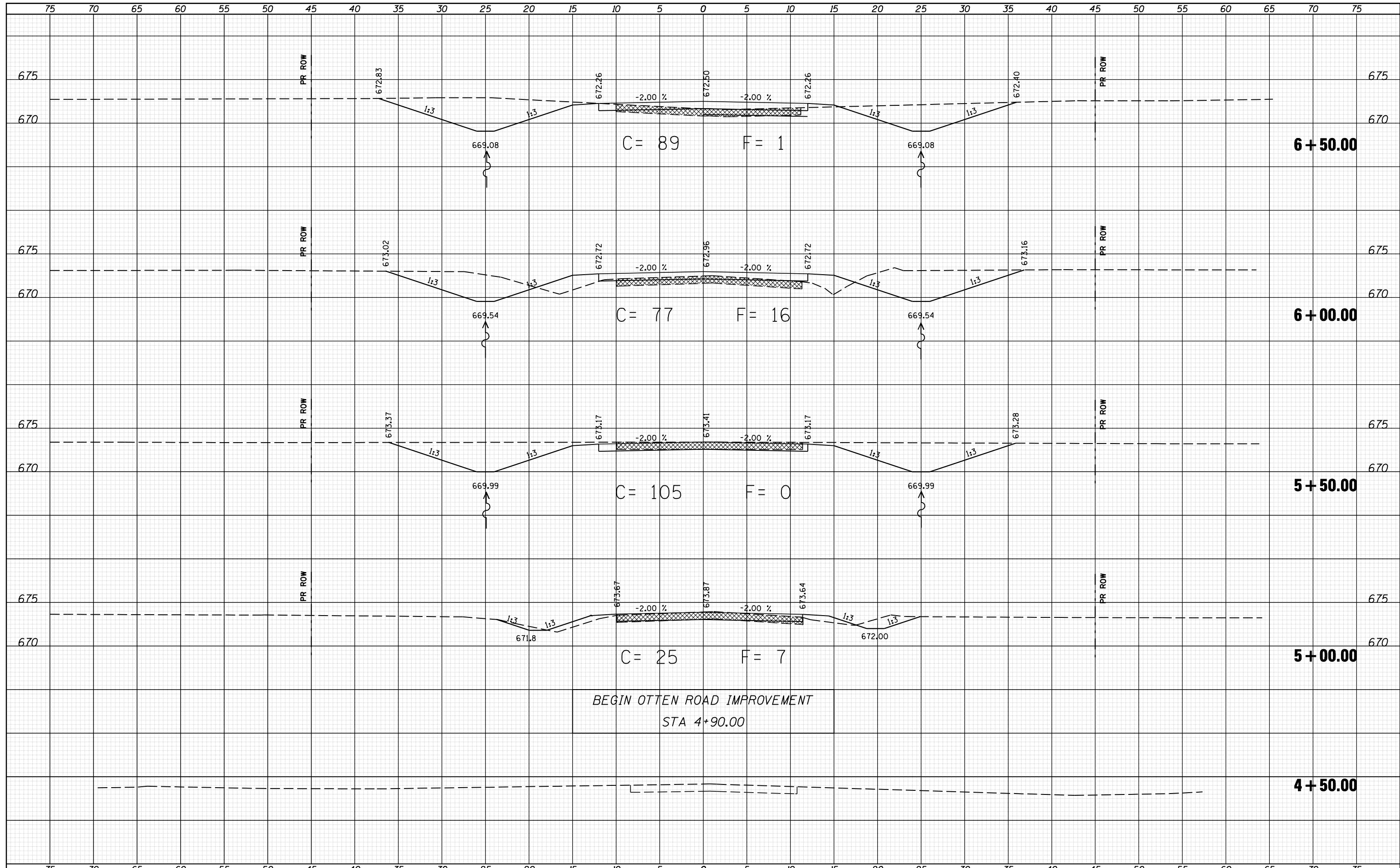
MACOUPIN COUNTY
FAS 731 & 1736 IMPROVEMENTS

NINE MILE LANE	
CROSS SECTIONS	
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F.A.S. RTE. 731&1736	SECTION 02-00082-00-FP	COUNTY MACOUPIN	TOTAL SHEETS 95	SHEET NO. 43
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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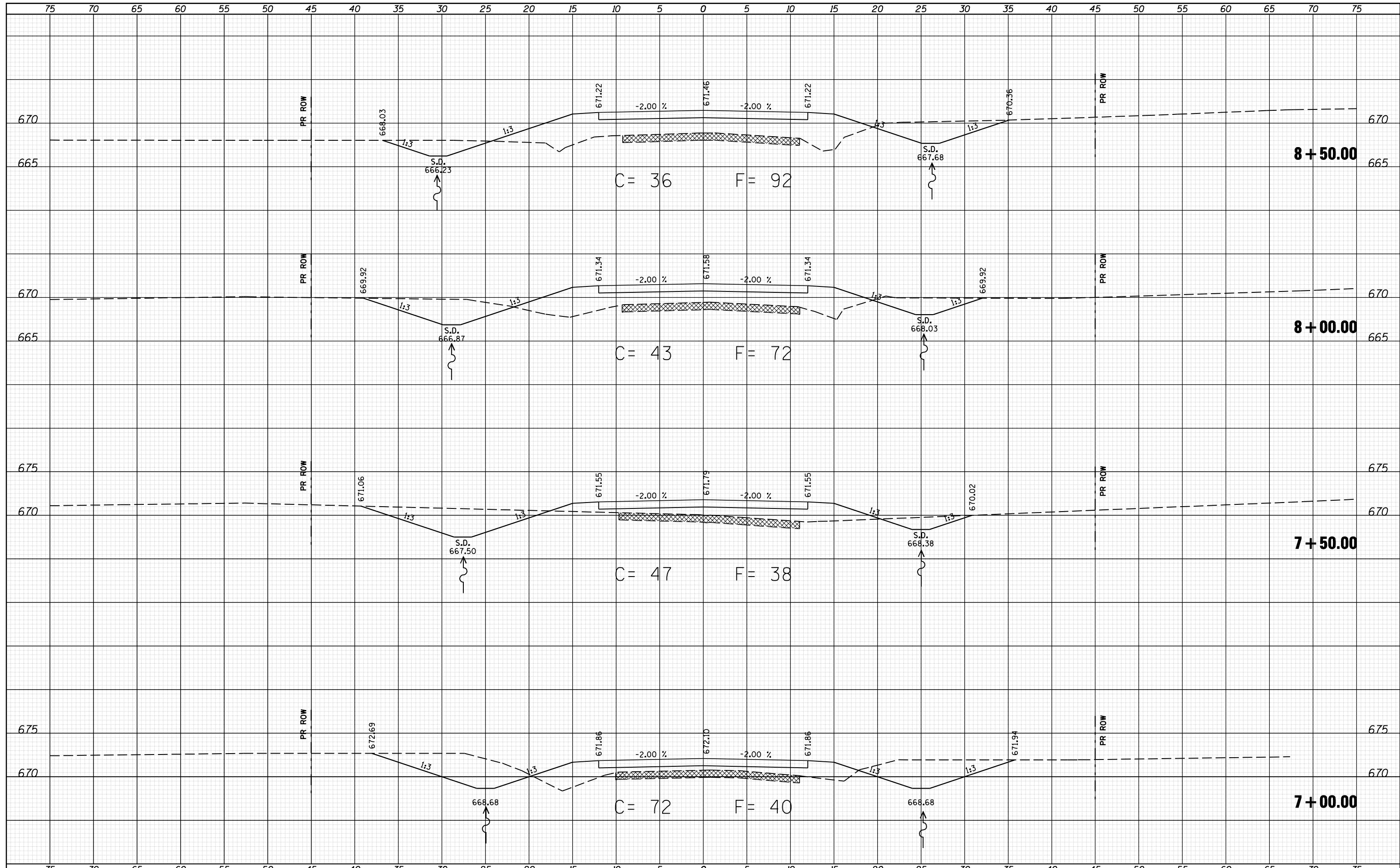
MACOUPIN COUNTY
FAS 731 & 1736 IMPROVEMENTS

OTTEN ROAD	
CROSS SECTIONS	
SCALE:	SHEET NO. OF SHEETS STA. 4+00.00 TO STA. 6+50.00

F.A.S. RTE. 731&1736	SECTION 02-00082-00-FP	COUNTY MACOUPIN	TOTAL SHEETS 95	SHEET NO. 44
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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BY	
ORIGINAL SURVEY	
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MACOUPIN COUNTY
FAS 731 & 1736 IMPROVEMENTS

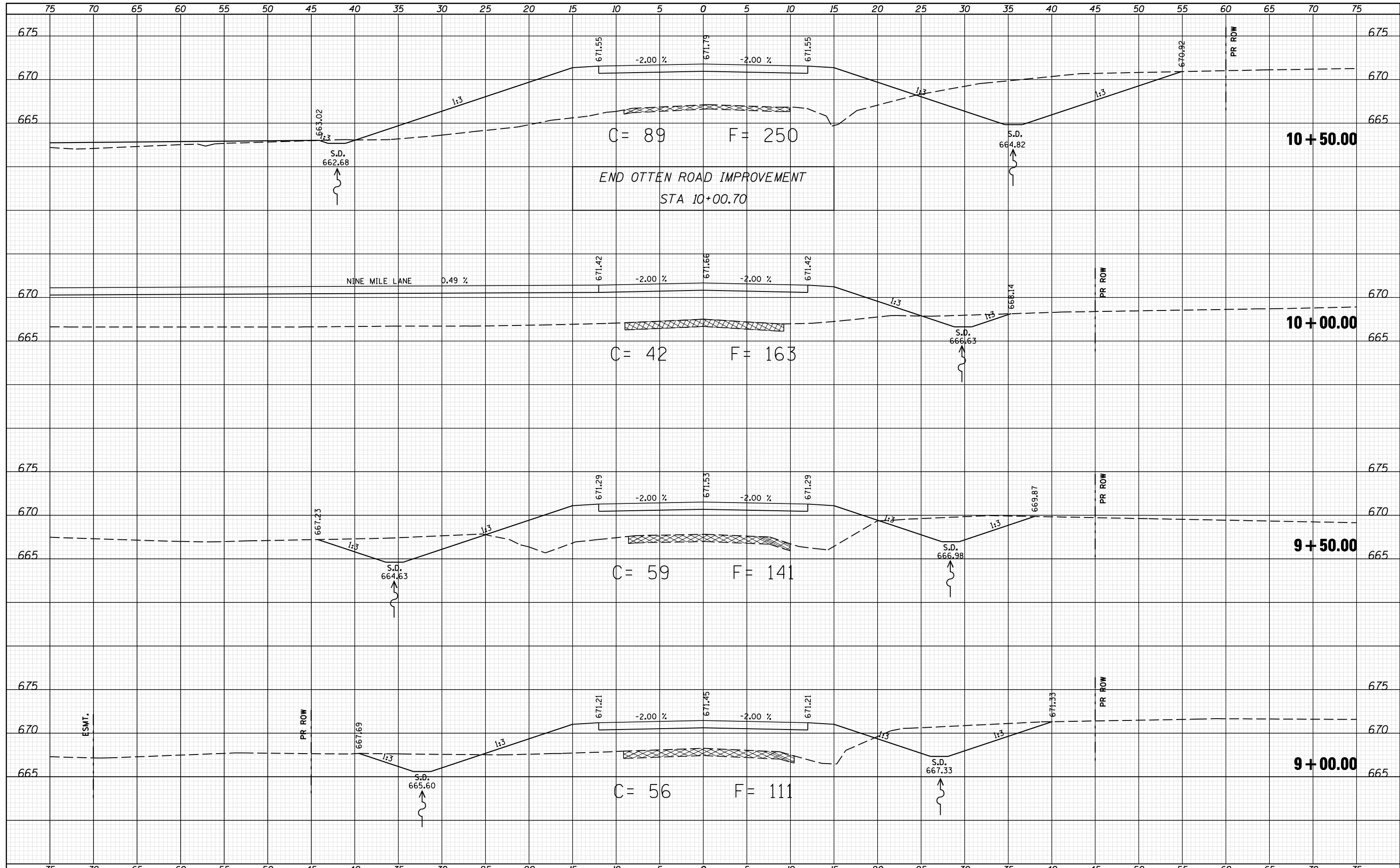
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CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 7+00.00 TO STA. 8+50.00

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FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 93732	

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DATE - 1/25/2011	REVISED -

**MACOUPIN COUNTY
FAS 731 & 1736 IMPROVEMENTS**

**OTTEN ROAD - NINE MILE LANE
CROSS SECTIONS**

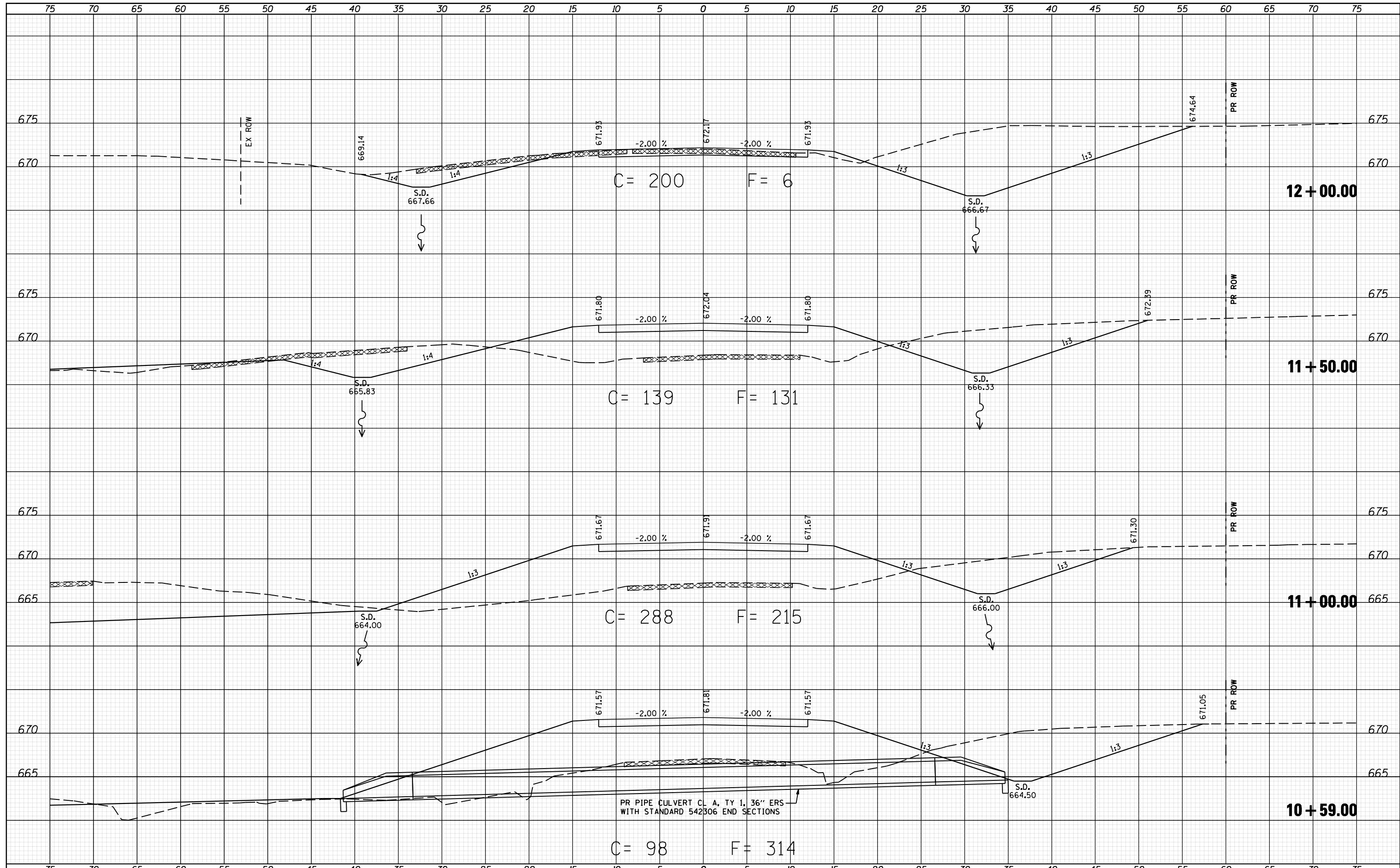
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FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 93732

DATE	
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NOTE BOOK	
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DATE	
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MACOUPIN COUNTY
FAS 731 & 1736 IMPROVEMENTS

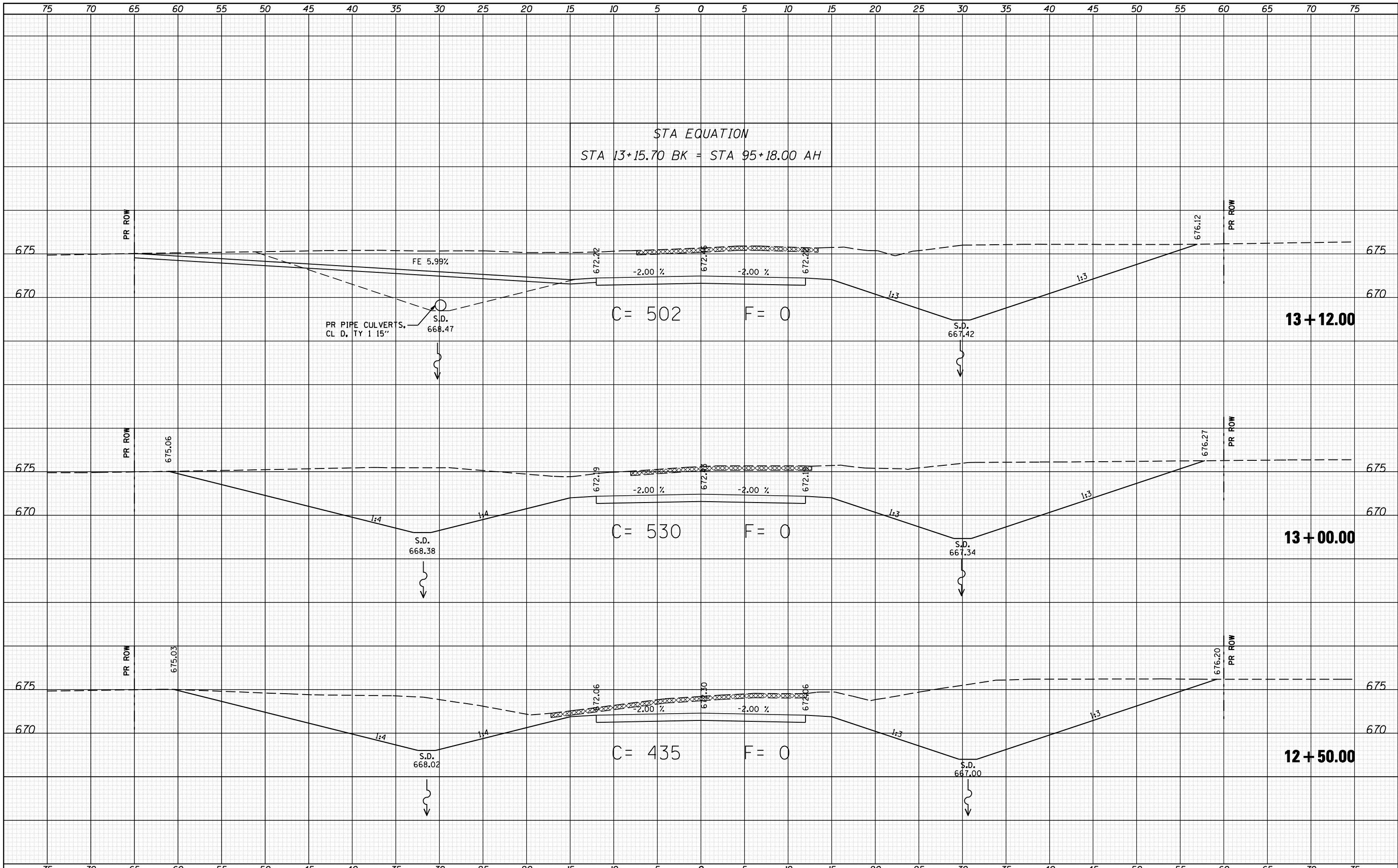
NINE MILE LANE
CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 10+59.00 TO STA. 12+00.00

F.A.S. RTE. 731&1736	SECTION 02-00082-00-FP	COUNTY MACOUPIN	TOTAL SHEETS 95	SHEET NO. 47
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 93732	

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NOTE BOOK	
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DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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CEC Cummins
Engineering
Corporation
Civil and Structural Engineering

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PLOT DATE = 3/18/2019	DATE - 1/25/2011	REVISIED -

MACOUPIN COUNTY
FAS 731 & 1736 IMPROVEMENTS

NINE MILE LANE
CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 12+50.00 TO STA. 95+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
731&1736	02-00082-00-FP	MACOUPIN	95	48
CONTRACT NO. 93732				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				