1-15-10 Letting, Item 199

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 72765		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 662 (IL 4)
SECTION D(W-3,RS-11,CR)
PROJECT: F-0662(062)
MACOUPIN COUNTY
C-96-101-09

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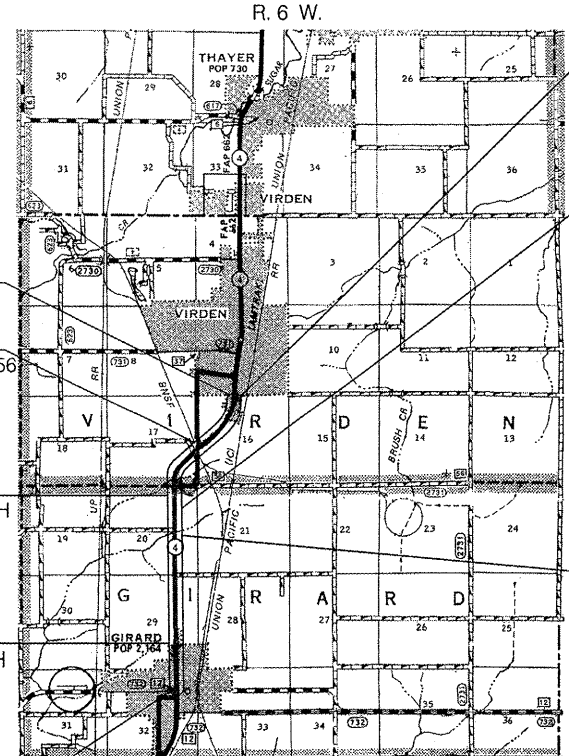
	STANDARDS

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-05	604001-03	701201-03
001001-02	604006-04	701301-03
406201-01	604036-02	701306-02
442201-03	604041-02	701311-03
482001-02	604066-02	701321-10
482011-03	606001-04	701326-03
515001-03	630001-08	701501-05
542101-02	630101-08	701701-06
542106-02	635006-03	701901-01
542301-02	635011-02	704001-05
542306-02	642001-01	720006-02
542401-01	666001-01	780001-02
602301-02	701006-03	781001-03
602411-01	701011-02	BLR 21-8



BEGIN PROJECT
STA. 352+50

RAILROAD OMISSION
STA. 394+50.10 TO STA. 394+60.56

STATION EQUATION
STA. 421+37.11 BK. = STA. 421+40.62 AH

STATION EQUATION
STA. 518+63.85 BK = STA. 7+90.71 AH

END PROJECT
STA. 34+04 (MADISON STREET)

STA. 352+50 TO STA. 373+85
PAVEMENT WIDENING AND RESURFACING TO PROVIDE A BI-DIRECTIONAL TURNING LANE

STA. 373+85 TO STA. 34+04
PAVEMENT RESURFACING

REPLACEMENT OF EXISTING 10' x 4' BOX CULVERT S.N. 059-7004 OVER UNNAMED TRIBUTARY TO EAST FORK OTTER CREEK
PROPOSED DOUBLE BARREL 9'W x 7'H CONCRETE BOX CULVERT STA. 449+91.50, 20° SKEW RT FWD
S.N. 059-7101

N

LOCATION PLAN

NET LENGTH OF PROJECT = 19,223.46 FEET = 3.641 MILES

0 1 2 3 4 5 MILES
SCALE

D-96-576-02

LOCATION OF SECTION INDICATED THUS: -

ADT = 6,700 (2006)
% SU = 4.0
% MU = 4.0
TOWNSHIP: VIRDEN & GIRARD
FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL

100' 200' 300' — 1" = 100'
0 10' 20' 30' — 1" = 10'
0 50' 100' — 1" = 50'
0 50' 100' — 1" = 40'
0 50' 100' — 1" = 30'
0 50' 100' — 1" = 20'

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

SQUAD LEADER: MARK DUST (217)785-0597
PROJECT ENGINEER: JOHN NEGANGARD (217)782-6990

CONTRACT NO. 72765

Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL. Design Firm
No. 184-001907

RICHARD K. ALLENDER III
062-054436
LICENSED PROFESSIONAL ENGINEER OF
ILLINOIS

Richard K. Allender III 8-14-09
EXP. 11/30/09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED August 14 20 09
Roger L. Driskell
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

October 2, 20 09
Charles J. Ingersoll
ENGINEER OF DESIGN AND ENVIRONMENT

October 2, 20 09
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GENERAL NOTES

1.) THE THICKNESS OF BITUMINOUS MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.

2.) EXCEPT AS NOTED IN THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

3.) WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER OR AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

4.) SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET OR IN AN UNTILLABLE CONDITION. AREAS TO BE SEEDED SHALL BE DETERMINED BY THE ENGINEER AND SEEDED AS SOON AS POSSIBLE.

5.) ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.

6.) ALL SAW CUTS, NECESSARY TO COMPLETE THE WORK DETAILED IN THESE PLANS, SHALL BE INCLUDED IN THE COST FOR THE VARIOUS PAY ITEMS INVOLVED. THE MINIMUM SAW CUT DEPTH IN THE PAVEMENT SHALL BE 1 1/2 " UNLESS OTHERWISE SPECIFIED IN A DETAIL SHOWN IN THE PLANS.

7.) UNLESS DIRECTED BY THE ENGINEER, PAVEMENT MARKING LINES SHALL NOT BE LAID DIRECTLY OVER A LONGITUDINAL CRACK OR JOINT NOR OVER A TAR OR ASPHALT PAINTED LINE. THE EDGE OF A CENTERLINE OR LANE LINE SHALL BE OFFSET A MINIMUM DISTANCE OF 2" FROM A LONGITUDINAL CRACK OR JOINT. EDGE LINES SHALL BE APPROXIMATELY 2" FROM THE EDGE LINE OF PAVEMENT. SEE SECTION 780 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.

8.) ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OUTSIDE THE LIMITS OF RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST PER CUBIC YARD FOR EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

9.) ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED IN THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

10.) IN ADDITION TO THE FIELD SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION DUE TO CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

11.) THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION WILL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT, AND NO COMPENSATION WILL BE ALLOWED.

12.) THE LOCATION OF ALL UTILITIES ARE BASED ON INFORMATION PROVIDED BY OTHERS AND IS INTENDED TO BE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS CONSTRUCTION ACTIVITIES WITH THE VARIOUS UTILITY OWNERS. ALL POTENTIAL CONFLICTS SHALL BE INVESTIGATED AND REMEDIAL ACTION TAKEN PRIOR TO INTERRUPTION OF THE CONTRACTOR'S PROGRESS.

13.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. NUMBER IS 800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCE NOTICE IS REQUIRED.

14.) ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON U.S.G.S. MEAN SEA LEVEL DATUM. ALL STATION AND OFFSET REFERENCES ARE TO THE ROADWAY CENTERLINE UNLESS OTHERWISE NOTED. THE STATE PLANE COORDINATE SYSTEM HAS BEEN USED FOR THE HORIZONTAL CONTROL.

15.) THE DISTRICT BUREAU OF OPERATIONS SHALL BE NOTIFIED AT LEAST 14 DAYS PRIOR TO PLACEMENT OF FINAL PAVEMENT MARKINGS (PH: 217-785-5312)

16.) QUANTITY FOR EARTH EXCAVATION INCLUDES ANY EXCAVATION NECESSARY TO PLACE HOT MIX ASPHALT BASE COURSE.

COMMITMENTS

1.) THE RESIDENT ENGINEER SHALL CONTACT STUDIES AND PLANS CONCERNING ANY MAJOR PLAN CHANGE, TO MAKE SURE NO PREVIOUS COMMITMENTS (NOT LISTED) WERE MADE AFFECTING THE DESIGN AND ALLOW AN IMPROVED DESIGN FOR FUTURE PROJECTS.

2.) STORM WATER POLLUTION PREVENTION PLAN.

MIXTURE REQUIREMENTS

MIXTURE USE(S)	HMA SURFACE	HMA SHOULDER	LEVELING BINDER	INCIDENTAL HMA SURFACING	HMA BASE COURSE, HMA BINDER COURSE & PATCHING
AC/PG	PG 64-22	PG 58-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N DESIGN = 70	2.0% @ N DESIGN = 30	4.0% @ N DESIGN = 70	4.0% @ N DESIGN = 50	4.0% @ N DESIGN = 70
MIXTURE COMPOSITION	IL 9.5 OR 12.5	BAM (OTHER)	IL 9.5 ONLY	IL 9.5 OR 12.5	IL 19.0
FRICTION AGGREGATE	MIX D	N/A	N/A	MIX "C"	N/A

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE THE PLAN QUANTITIES:

HOT-MIX ASPHALT MATERIALS (PRIME COAT)	0.00038 TON/SQ. YD. (ON PAVEMENT)
HOT-MIX ASPHALT MATERIALS (PRIME COAT)	0.001425 TON/SQ.YD. (ON AGG)
HOT-MIX ASPHALT SURFACE / BINDER	0.056 TON/SQ. YD. PER 1"
AGGREGATE MATERIAL	2.05 TON/CU. YD.
RIPRAP	1.5 TON/CU. YD.
NITROGEN FERTILIZER NUTRIENT	90 LBS./ACRE
PHOSPHOROUS FERTILIZER NUTRIENT	90 LBS./ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LBS./ACRE
AGGREGATE PRIME COAT	0.002 TON/SQ. YD.
AGRICULTURAL GROUND LIMESTONE	2.0 TON/ACRE
ROCKFILL - FOUNDATION	1.89 TON/CU. YD.

DISTRICT SIX

EXAMINED 8/7 20 09
Stan J. Hoans
OPERATIONS ENGINEER

EXAMINED Aug 12 20 09
Stan J. Hoans
PROGRAM IMPLEMENTATION ENGINEER

EXAMINED 8/12 20 09
Laura R Mlacnik
PROGRAM DEVELOPMENT ENGINEER

SUMMARY OF QUANTITIES

CODE NO.	SUMMARY OF QUANTITIES PAY ITEM	UNIT	TOTAL QUANTITY	STP: RDWY. WIDENING F.A.P. 662 80% FEDERAL 20% STATE — CONSTRUCTION TYPE CODE I000-2A	STP: ROADWAY F.A.P. 662 80% FEDERAL 20% STATE — CONSTRUCTION TYPE CODE I000-2A	STP: STRUCTURE S.N. 059-7004 80% FEDERAL 20% STATE — CONSTRUCTION TYPE CODE X028-2A	ROADWAY RESURFACING: PARKING LANES 50% STATE 50% VILLAGE — CONSTRUCTION TYPE CODE Y025
20200100	EARTH EXCAVATION	CU YD	5831	2552	3279		
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	245		245		
20400800	FURNISHED EXCAVATION	CU YD	1446	1446			
25000200	SEEDING, CLASS 2	ACRE	3.6	1.9	1.7		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	324	171	153		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	324	171	153		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	324	171	153		
25000700	AGRICULTURAL GROUND LIMESTONE	TON	7.2	3.8	3.4		
25100115	MULCH, METHOD 2	ACRE	3.6	1.9	1.7		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	360	190	170		
28000400	PERIMETER EROSION BARRIER	FOOT	224		224		
28000500	INLET AND PIPE PROTECTION	EACH	8	8			
28001000	AGGREGATE (EROSION CONTROL)	TON	90	25	65		
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	913	73	840		
28200200	FILTER FABRIC	SQ YD	1825	147	1678		
31100100	SUB-BASE GRANULAR MATERIAL, TYPE A	TON	5,220	2,378	2,842		
35101400	AGGREGATE BASE COURSE, TYPE B	TON	135.5	6.8	128.7		
35501324	HOT-MIX ASPHALT BASE COURSE, 10"	SQ YD	3136		3136		
35501332	HOT-MIX ASPHALT BASE COURSE, 12"	SQ YD	2629	2629			
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	21.4	3.2	15.9		2.3
40600300	AGGREGATE (PRIME COAT)	TON	112.6	17.0	83.5		12.1
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	2365	357.5	1754.5		253
40600895	CONSTRUCTING TEST STRIP	EACH	2	1	1		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	2243	1114	1129		
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	55		55		
40600990	TEMPORARY RAMP	SQ YD	467	41	426		
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	1,037		1,037		
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	4731	715	3509		507
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	602.9		602.9		
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	472.8	472.8			
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	330	330			
42400800	DETECTABLE WARNINGS	SQ FT	40	40			
44000100	PAVEMENT REMOVAL	SQ YD	997	860	137		
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2 "	SQ YD	791	791			
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	13704		7649		6055
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	36450	4686	31764		

Rev.

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		DATE -	REVISED -

Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL. Design Firm
No. 184-001907

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 1 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	3

CONTRACT NO. 72765

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

SUMMARY OF QUANTITIES

				STP			ROADWAY RESURFACING
				RDWY. WIDENING F.A.P. 662 80% FEDERAL 20% STATE	ROADWAY F.A.P. 662 80% FEDERAL 20% STATE	STRUCTURE S.N. 059-7004 80% FEDERAL 20% STATE	PARKING LANES 50% STATE 50% VILLAGE
	SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE			CONSTRUCTION TYPE CODE
CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	I000-2A	I000-2A	X028-2A	Y025
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	104	104			
44000600	SIDEWALK REMOVAL	SQ FT	253	253			
44004250	PAVED SHOULDER REMOVAL	SQ YD	5202	633	4569		
44200164	PAVEMENT PATCHING, TYPE I, 14 INCH	SQ YD	9		9		
44200168	PAVEMENT PATCHING, TYPE II, 14 INCH	SQ YD	205	14	191		
44200172	PAVEMENT PATCHING, TYPE III, 14 INCH	SQ YD	62		62		
44200174	PAVEMENT PATCHING, TYPE IV, 14 INCH	SQ YD	81	46	35		
48101200	AGGREGATE SHOULDERS, TYPE B	TON	1441	385	1056		
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	13141	1716	11425		
48203100	HOT-MIX ASPHALT SHOULDERS	TON	340	1.3	338.7		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1			1	
50105220	PIPE CULVERT REMOVAL	FOOT	591	368	223		
50800105	REINFORCEMENT BARS	POUND	41360			41360	
50800515	BAR SPLICERS	EACH	101			101	
51500100	NAME PLATES	EACH	1			1	
54003000	CONCRETE BOX CULVERTS	CU YD	182.3			182.3	
54200427	PIPE CULVERTS, TYPE 1 RCCP 12"	FOOT	24	24			
54200439	PIPE CULVERTS, TYPE 1 RCCP 24"	FOOT	62		62		
54200457	PIPE CULVERTS, TYPE 1 RCCP 42"	FOOT	394	394			
54200640	PIPE CULVERTS, TYPE 1, CORRUGATED STEEL OR ALUMINUM CULVERT PIPE 15"	FOOT	458	346	112		
54200643	PIPE CULVERTS, TYPE 1, CORRUGATED STEEL OR ALUMINUM CULVERT PIPE 18"	FOOT	42		42		
54201297	PIPE CULVERTS, TYPE 2 RCCP 42"	FOOT	76	76			
54201480	PIPE CULVERTS, TYPE 2, CORRUGATED STEEL OR ALUMINUM CULVERT PIPE 15"	FOOT	48		48		
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2		2		
54213687	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 42"	EACH	3	3			
54215550	METAL END SECTIONS 15"	EACH	12	12			
54215553	METAL END SECTIONS 18"	EACH	2		2		
54223477	REMOVE AND RELAY PIPE CULVERTS 42"	FOOT	66	66			
54248515	CONCRETE COLLAR	EACH	3	3			
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	44	44			
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	50	50			
60226242	RESTRICTED DEPTH MANHOLES, 7'-DIAMETER, TYPE 8 GRATE	EACH	2	2			
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	1	1			
60238305	INLETS, TYPE A, WITH MEDIAN INLET (604101)	EACH	2	2			
60255900	MANHOLES TO BE ADJUSTED WITH NEW TYPE 3 FRAME AND GRATE	EACH	1	1			
60260400	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	2	2			

Rev.

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DATE - | REVISED -

Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL. Design Firm No. 184-001907

SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 2 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	4

CONTRACT NO. 72765

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

SUMMARY OF QUANTITIES

	CODE NO.	SUMMARY OF QUANTITIES PAY ITEM	UNIT	TOTAL QUANTITY	STP RDWY. WIDENING F.A.P. 662 80% FEDERAL 20% STATE CONSTRUCTION TYPE CODE I000-2A	STP ROADWAY F.A.P. 662 80% FEDERAL 20% STATE CONSTRUCTION TYPE CODE I000-2A	STP STRUCTURE S.N. 059-7004 80% FEDERAL 20% STATE CONSTRUCTION TYPE CODE X028-2A	ROADWAY RESURFACING PARKING LANES 50% STATE 50% VILLAGE CONSTRUCTION TYPE CODE Y025
	60264100	INLETS TO BE RECONSTRUCTED WITH NEW TYPE 15 FRAME AND LID	EACH	2		2		
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	99	91	8		
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2		2		
	63200310	GUARDRAIL REMOVAL	FOOT	137.5		137.5		
	64200105	SHOULDER RUMBLE STRIP	FOOT	27772	1170	26602		
	66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	10		10		
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12		12		
	67100100	MOBILIZATION	L SUM	1	0.5	0.5		
	70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1		1		
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5	0.5		
	70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.5	0.5		
	70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.5	0.5		
	70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1		1		
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0.5	0.5		
	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.5	0.5		
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	20	20			
	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1		1		
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	4	2	2		
	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	3808	392	3416		
	70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	404	281	123		
	70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	62328	9194	53134		
	70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	78	78			
	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	84	18	66		
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	28181	4363	23818		
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	850		850		
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	850		850		
	70500100	TEMPORARY STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	25		25		
	70500500	TEMPORARY STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	12.5		12.5		
*	78000300	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	FOOT	16729	9174	7555		
*	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	78	78			
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	18	18			
*	78004200	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LETTERS AND SYMBOLS	SQ FT	404	281	123		
*	78004220	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 5"	FOOT	4300	20	4280		
*	78004280	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"	FOOT	66		66		
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	364	108	256		
*	78200455	BIDIRECTIONAL GUARD RAIL REFLECTORS	EACH	2		2		

*Specialty Items

Rev.

SUMMARY OF QUANTITIES

	CODE NO.	SUMMARY OF QUANTITIES PAY ITEM	UNIT	TOTAL QUANTITY	STP RDWY. WIDENING F.A.P. 662 80% FEDERAL 20% STATE (CONSTRUCTION TYPE CODE I000-2A)	STP ROADWAY F.A.P. 662 80% FEDERAL 20% STATE (CONSTRUCTION TYPE CODE I000-2A)	STP STRUCTURE S.N. 059-7004 80% FEDERAL 20% STATE (CONSTRUCTION TYPE CODE X028-2A)	ROADWAY RESURFACING PARKING LANES 50% STATE 50% VILLAGE (CONSTRUCTION TYPE CODE Y025)
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2		2		
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	797		797		
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	312	59	253		
	X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	399			399	
	X0324118	GRANULAR CULVERT BACKFILL	CU YD	234			234	
	X0325129	TREE REMOVAL	L SUM	1		1		
	X7200201	WIDTH RESTRICTION SIGNING	L SUM	1		1		
*	X7800620	URETHANE PAVEMENT MARKING - LINE 5"	FOOT	36019		36019		
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	.5	.5		
	Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2		2		
	Z0030330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	2		2		
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1		1		
*	Z0054517	ROCK FILL - FOUNDATION	TON	354			354	

*Specialty Items

PAVEMENT SCHEDULE

LOCATION	LEVELING BINDER (MM), N70	HMA BINDER CRSE, IL19.0, N70	HMA SURF CRSE, MIX "D", N70	BITUMINOUS MATERIALS PRIME COAT	AGGREGATE PRIME COAT	INCIDENTAL HMA SURFACING
	TON	TON	TON	TON	TON	TON
STA. 352+50 TO STA. 354+28	33.3		66.6	0.3	1.6	
STA. 354+28 TO STA. 373+85	324.2		648.4	2.9	15.4	
STA. 373+85 TO STA. 421+37.11	487.9		975.8	4.4	23.1	
STA. 421+40.62 TO STA. 444+30.40	235.1		470.2	2.1	11.0	
STA. 444+30.40 TO STA. 446+70	24.6		49.2	0.2	1.1	
STA. 446+70 TO STA 454+55	80.6	1037	161.2	0.7	3.7	
STA. 454+55 TO STA. 518+63.85	658.0		1316.0	6.0	31.5	
STA. 7+90.71 TO STA. 34+04	268.3		536.6	2.5	13.1	
STA. 447+99 RT. (FINNEY RD)						108
PARKING LANES (GIRARD)						
STA. 513+63.14 TO STA. 518+63.85	37		74	0.4	2.1	
STA. 7+90.71 TO STA. 34+04	216		433	1.9	10.0	24.9
FROM ENTRANCE SCHEDULES						470
TOTAL	2365	1037	4731	21.4	112.6	602.9

SHOULDER SCHEDULE

LOCATION	PAVED SHOULDER REMOVAL	AGG SHLD, TY B	HMA SHLD, 8"	HMA SHLD	SHLD RUMBLE STRIP
	SQ. YD.	TON	SQ. YD.	TON	FOOT
GEORGE ST.					
STA. 10+44.8 TO STA. 10+61.8 LT				1.3	
STA. 9+47.75 TO STA. 9+74.43 RT			13.0		
STA. 10+18.73 TO STA. 10+47.38 RT			13.0		
MAINLINE					
STA. 354+86 TO STA. 373+85 LT	316.5	192.5	845		
STA. 373+85 TO STA. 383+36.64 LT	158.6	39	423		
STA. 383+36.64 TO STA. 444+30.40 LT	1015.0	232	2707		
STA. 444+30.40 TO STA. 446+70 LT	39.9	3			
STA. 446+70 TO STA. 448+25 LT	25.5	3		49.1	
STA. 448+25 TO STA. 452+25 LT	66.7	9		90.25	
STA. 452+25 TO STA. 454+55 LT	38.2	6		30.0	
STA. 454+55 TO STA. 455+25 LT	11.6	2			
STA. 455+25 TO STA. 465+25 LT	166.6	41	444		
STA. 465+25 TO STA. 513+03.14 LT	796.2	184	2123		
STA. 354+86 TO STA. 373+85 RT	316.5	192.5	845		
STA. 373+85 TO STA. 383+36.64 RT	158.6	39	423		
STA. 383+36.64 TO STA. 445+00 RT	1026.0	250	2738		
STA. 445+00 TO STA. 446+70 RT	28.0	4			
STA. 446+70 TO STA. 448+25 RT	25.5	3		49.1	
STA. 448+25 TO STA. 452+25 RT		10		90.25	
STA. 452+25 TO STA. 454+55 RT	38.2	6		30.0	
STA. 454+55 TO STA. 455+25 RT	11.6	2			
STA. 455+25 TO STA. 465+25 RT	166.6	37	444		
STA. 465+25 TO STA. 513+03.14 RT	796.2	186	2123		
STA. 368+00 TO STA. 373+85 LT & RT					1170
STA. 373+85 TO STA. 507+00 LT & RT					26602
TOTAL	5202	1441	13141	340	27772

SCHEDULE PERMANENT SEEDING

LOCATION	SEEDING CLASS 2	NITROGEN FERT. NUT.	PHOSPHORUS FERT. NUT.	POTASSIUM FERT. NUT.	MULCH METHOD 2	AGRICULTURAL GROUND LIMESTONE
	ACRE	POUND	POUND	POUND	ACRE	TON
STA. 354+75 TO STA. 373+85 LT.	1.0	90	90	90	1.0	2.0
STA. 354+75 TO STA. 373+85 RT.	0.9	81	81	81	0.9	1.8
STA. 444+00 TO STA. 458+00 LT.	0.8	72	72	72	0.8	1.6
STA. 444+00 TO STA. 458+00 RT.	0.9	81	81	81	0.9	1.8
TOTAL	3.6	324	324	324	3.6	7.2

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVTION	EARTH EXCAVTION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU. YD.	CU. YD.	CU. YD.	CU. YD.
STA. 354+28 TO STA. 373+85	2552	2042	4075	-2033
STA. 444+00 TO STA. 458+00 ST. I	3279	2623	1584	+1039
STA. 444+00 TO STA. 458+00 ST. II	0	0	452	-452
TOTAL	5831	4665	6111	-1446

SCHEDULE HMA BASE COURSE

LOCATION	10"	12"
	SQ. YD.	SQ. YD.
STA. 354+86 TO STA. 370+00 LT		1164.5
STA. 370+00 TO STA. 373+85 LT		150
STA. 354+86 TO STA. 370+00 RT		1164.5
STA. 370+00 TO STA. 373+85 RT		150
STA. 444+30.40 TO STA. 445+00 LT	62	
STA. 445+00 TO STA. 446+70 LT	151	
STA. 446+70 TO STA. 448+25 LT	146.5	
STA. 448+25 TO STA. 452+25 LT	1022.2	
STA. 452+25 TO STA. 454+55 LT	217.3	
STA. 445+00 TO STA. 446+70 RT	151	
STA. 446+70 TO STA. 448+25 RT	146.5	
STA. 448+25 TO STA. 452+25 RT	1022.2	
STA. 452+25 TO STA. 454+55 RT	217.3	
TOTAL	3136	2629

SCHEDULE COMBINATION CURB & GUTTER

LOCATION	COMBINATION C&G REMOVAL	COMB CONC C&G, TY B-6.24
	FOOT	FOOT
STA. 354+28 TO STA. 354+54 LT.	34	45
STA. 354+28 TO STA. 354+54 RT.	45	49
STA. 354+71 TO STA. 354+87	25	
STA. 29+99.4 RT.		4
STA. 30+38 RT.		4
TOTAL	104	99

SCHEDULE TEMPORARY RAMP

LOCATION	QUANTITY
	SQ. YD.
STA. 352+50	22.2
GEORGE ST. LT	9.4
GEORGE ST. RT	9.4
OLD IL 4 RT	36.2
STA. 394+50.10	12.2
STA. 394+60.56	12.2
OLD IL 4 LT	33.3
SNELLS RD. RT	32.2
CROWN TWO MINE RD. LT	92.8
SUBSTATION RD. LT	20.0
STA. 513+38.1	30.0
CENTER ST. LT	31.5
CENTER ST. RT	31.5
MADISON ST. LT	30.4
MADISON ST. RT	30.4
STA. 34+04	33.3
TOTAL	467

SCHEDULE EXCAVATING AND GRADING EXISTING SHOULDER

LOCATION	QUANTITY
	UNIT
STA. 373+85 TO STA. 392+91 LT.	19.0
STA. 392+91 TO STA. 393+91 LT.	1.0
STA. 393+91 TO STA. 394+50 LT.	0.6
STA. 394+60.5 TO STA. 395+16 LT.	0.6
STA. 395+99 TO STA. 396+44 LT.	0.5
STA. 396+44 TO STA. 420+47 LT.	24.0
STA. 422+31 TO STA. 444+00 LT.	21.7
STA. 458+00 TO STA. 474+64 LT.	16.6
STA. 475+13 TO STA. 513+03.14 LT.	37.9
STA. 373+85 TO STA. 392+91 RT.	19.0
STA. 393+91 TO STA. 394+50 RT.	0.6
STA. 394+60.5 TO STA. 395+16 RT.	0.6
STA. 395+16 TO STA. 395+58 RT.	0.4
STA. 396+44 TO STA. 420+47 RT.	24.0
STA. 420+47 TO STA. 422+31 RT.	1.8
STA. 422+31 TO STA. 444+00 RT.	21.7
STA. 458+00 TO STA. 474+64 RT.	16.6
STA. 474+64 TO STA. 475+13 RT.	0.5
STA. 475+13 TO STA. 513+03.14 RT.	37.9
TOTAL	245

SCHEDULE SIDEWALK

LOCATION	PCC SIDEWALK 4 INCH	DETECTABLE WARNINGS	SIDEWALK REMOVAL
	SQ. FT.	SQ. FT.	SQ. FT.
STA. 354+21.6 TO STA. 354+48.75 LT.	185.5	20	147
STA. 354+29 TO STA. 354+49 RT.	144.5	20	106
TOTAL	330	40	253

SCHEDULE
PIPE CULVERT & END SECTIONS

LOCATION	PIPE CULVERT, TY 1, RCCP 12"	STORM SEWERS, CL A TY 1 15"	PIPE CULVERT, TY 1, CS/A 15"	PIPE CULVERT, TY 1, CS/A 18"	PIPE CULVERT, TY 1, RCCP 24"	PIPE CULVERT, TY 2, CS/A 15"	PIPE CULVERT, TY 2, RCCP 42"	PIPE CULVERT, TY 1, RCCP 42"	METAL END SECTIONS 15"	PRCFES 24"	METAL END SECTIONS 18"	PRCFES 42"
	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH
STA. 354+39.5 LT TO STA. 354+41.8 RT.		44										
STA. 355+62 LT.			58						2			
STA. 359+07.9 LT.			60						2			
STA. 360+00 TO STA. 361+50 RT.								146				
STA. 360+80 LT.			54						2			
STA. 361+50 RT.	10											
STA. 361+50 TO STA. 362+62 RT.								108				
STA. 363+28.9 TO STA. 364+00 RT.								68				
STA. 363+68.4 LT.			66						2			
STA. 364+00 RT.	14											
STA. 364+00 TO STA. 365+41.7 RT.								•72				1
STA. 365+14.7 LT.			50						2			
STA. 365+72.3 ℄							76					2
STA. 369+56.2 LT.			58						2			
STA. 442+73.5 LT.			36									
STA. 444+75.5 LT.			40									
STA. 446+27.5 LT.			36									
STA. 447+42.5 LT.						48						
STA. 447+99 RT.					62					2		
STA. 451+81 LT.				42							2	
TOTAL	24	44	458	42	62	48	76	394	12	2	2	3

• USE 66 FEET OF REMOVE AND RELAY PIPE CULVERTS, 42" TO COMPLETE.

SCHEDULE
PAVEMENT REMOVAL

LOCATION	QUANTITY
	SQ. YD.
STA. 354+40 LT. TO STA. 354+42 RT.	14
STA. 365+64 TO STA. 365+81	42
STA. 449+60 TO STA. 450+15 RT.	92
STA. 449+68 TO STA. 450+10 LT.	45
FROM ENTRANCE SCHEDULES	804
TOTAL	997

SCHEDULE
SUB-BASE GRANULAR MATERIAL, TYPE A

LOCATION	QUANTITY
	TON
STA. 355+00 TO STA. 370+00 LT.	1025
STA. 370+00 TO STA. 373+85 LT.	132
STA. 355+00 TO STA. 370+00 RT.	1082
STA. 370+00 TO STA. 373+85 RT.	139
STA. 448+00 TO STA. 452+50	2842
TOTAL	5220

SCHEDULE
DRAINAGE STRUCTURES

LOCATION	RES DEPTH MANHOLES, 7' DIAMETER, TY 8 GR	INLETS, TY A, TY 3 F&G	INLETS, TY A, MED INLET (604101)	MH TO BE ADJ W/ NEW TY 3 F&G	INLETS TO BE ADJ W/ NEW TY 1 F & CLOSED LID	INLETS TO BE RECONST W/ NEW TY 15 F & LID
	EACH	EACH	EACH	EACH	EACH	EACH
STA. 354+39.5 LT.		1				
STA. 354+41.8 RT.				1		
STA. 354+48.9 LT.					1	
STA. 354+74 LT.					1	
STA. 360+00 RT.						
STA. 361+50 RT.	1		1			
STA. 362+62 RT.						
STA. 363+28.9 RT.						
STA. 364+00 RT.	1		1			
STA. 364+74.4 RT.						
STA. 365+41 RT.						
STA. 29+99.4 RT.						1
STA. 30+38 RT.						1
TOTAL	2	1	2	1	2	2

• SCHEDULE
TREE REMOVAL

LOCATION	ACRES	6 TO 15 UNITS DIAMETER	OVER 15 UNITS DIAMETER
STA. 448+20 TO STA. 450+00 LT.	0.15		
STA. 448+25 TO STA. 448+85 RT.	0.01		
STA. 449+90 TO STA. 451+40 RT.	0.14		
STA. 449+43 RT.		9	
STA. 449+43 RT.		11	
STA. 449+43 RT.		12	
STA. 449+43 RT.		15	
STA. 449+55 RT.			17
TOTAL	0.3	47	17

• TREE REMOVAL QUANTITIES ARE SHOWN FOR ESTIMATING PURPOSES ONLY.
TREE REMOVAL SHALL BE PAID FOR AS A LUMP SUM ITEM.

SCHEDULE
PIPE CULVERT REMOVAL

LOCATION	DIAMETER	LENGTH
	INCHES	FOOT
STA. 355+62 LT.	15	52
STA. 359+08 LT.	15	52
STA. 360+80 LT.	15	52
STA. 363+68 LT.	15	55
STA. 365+15 LT	15	46
STA. 365+72.3 ℄	30	48
STA. 369+56 LT.	15	63
STA. 442+74 LT.	15	30
STA. 444+76 LT.	15	40
STA. 446+28 LT.	15	32
STA. 447+43 LT.	15	44
STA. 447+99 RT.	24	47
STA. 451+81 LT.	18	30
TOTAL		591

SCHEDULE
TEMPORARY EROSION CONTROL ITEMS

LOCATION	PERIMETER EROSION BARRIER	AGGREGATE (EROSION CONTROL)	TEMP. EROSION CONTROL SEEDING	INLET AND PIPE PROTECTION
	FOOT	TON	POUND	EACH
STA. 354+75 TO STA. 373+85 LT.		15	100	
STA. 354+75 TO STA. 373+85 RT.		10	90	8
STA. 444+00 TO STA. 458+00 LT.	67	25	80	
STA. 444+00 TO STA. 458+00 RT.	157	40	90	
TOTAL	224	90	360	8

SCHEDULE
REMOVE AND RELAY PIPE CULVERTS 42"

LOCATION	QUANTITY
	FOOT
STA. 364+75 TO STA. 365+41 RT	66
TOTAL	66

SCHEDULE
CONCRETE COLLAR

LOCATION	QUANTITY
	FOOT
STA. 360+00 RT.	1
STA. 362+62 RT.	1
STA. 363+28.9 RT.	1
TOTAL	3

SCHEDULE GUARDRAIL

LOCATION	TBT TY 1 SPCL TAN	GUARDRAIL REMOVAL	TEMP SPBGR, TY A	TEMP SPBGR, ATTCH TO STRUCT	TERMINAL MARKER DIRECT APPLIED	BIDIRECTIONAL GUARDRAIL REFLECTORS
	EACH	FOOT	FOOT	FOOT	EACH	EACH
STA. 449+14.5 TO STA. 449+64.5 LT.	1	50			1	
STA. 449+64.5 TO STA. 449+77 LT.		12.5	12.5			
STA. 449+77 TO STA. 449+89.5 LT.		12.5		12.5		
STA. 449+89.5 TO STA. 450+02 LT.		12.5	12.5			
STA. 450+02 TO STA. 450+52 LT.	1	50			1	
STA. 449+64.5 LT.						1
STA. 450+02 LT.						1
TOTAL	2	137.5	25	12.5	2	2

SCHEDULE SURFACE REMOVAL BUTT JOINT

LOCATION	HMA	PCC
	SQ. YD.	SQ. YD.
STA. 354+28 TO STA. 354+68 ℄	171.7	
GEORGE ST. LT. & RT.	42.1	
STA. 394+20.10 TO STA. 394+50.10 ℄	73.3	
STA. 394+60.56 TO STA. 394+90.56 ℄	73.3	
STA. 513+03.14 TO STA. 513+38.14 ℄	117.5	
CENTER ST. LT & RT.	99.4	
MADISON ST. LT. & RT.	97.7	
STA. 33+94 TO STA. 34+04 ℄	44.4	
FROM ENTRANCE SCHEDULES	1523	55
TOTAL	2243	55

SCHEDULE RAISED REFLECTIVE PAVEMENT MARKER

LOCATION	RRPM	RRPM REMOVAL
	EACH	EACH
STA. 352+50 TO STA. 373+85	108	59
STA. 373+85 TO STA. 421+37.11	60	59
STA. 421+40.62 TO STA. 513+03.14	115	115
STA. 513+03.14 TO STA. 518+63.85	15	14
STA. 7+90.71 TO STA. 34+04	66	65
TOTAL	364	312

SCHEDULE FURNISHING & ERECTING ROW MARKERS

LOCATION	QUANTITY
	EACH
STA. 448+25.77, 60' RT.	1
STA. 448+25.52, 65' RT.	1
STA. 449+50, 80' RT.	1
STA. 450+00, 130' RT.	1
STA. 450+75, 130' RT.	1
STA. 451+50, 60' RT.	1
STA. 448+20.50, 60' RT.	1
STA. 448+75, 100' RT.	1
STA. 449+50, 100' RT.	1
STA. 451+00, 60' RT.	1
TOTAL	10

SCHEDULE RIPRAP & FILTER FABRIC

LOCATION	STONE DUMPED RIPRAP, CLASS A4	FILTER FABRIC
	TON	SQ. YD.
STA. 365+41.7 TO STA. 366+00 RT.	73	147
STA. 448+00 TO STA. 450+50 LT.	420	839
STA. 449+00 TO STA. 451+00 RT.	420	839
TOTAL	913	1825

SCHEDULE CONTROLLED LOW-STRENGTH MATERIAL

LOCATION	QUANTITY
	CU. YD.
STA. 354+39.5 LT TO STA. 354+41.8 RT	16.8
STA. 365+72.3 ℄	33.2
TOTAL	50

SCHEDULE SURFACE REMOVAL

LOCATION	HMA SURF REM 1½"	HMA SURF REM 2¼"	HMA SURF REM VAR DEPTH
	SQ. YD.	SQ. YD.	SQ. YD.
STA. 352+50 TO STA. 354+28	791		
STA. 354+28 TO STA. 373+85			4686
STA. 373+85 TO STA. 394+20.10			4975
STA. 394+90.56 TO STA. 421+37.11			6469
STA. 421+40.62 TO STA. 446+25			6073
STA. 454+75 TO STA. 513+03.14			14247
STA. 513+38.14 TO STA. 518+63.85		1285	
STA. 7+90.70 TO STA. 33+94		6364	
PARKING LANES			
STA. 513+38.14 TO STA. 518+63.85 LT & RT		935	
STA. 7+90.71 TO STA. 11+80 LT & RT		692	
STA. 11+80 TO STA. 33+94 LT & RT		4428	
TOTAL	791	13704	36450

FILE NAME = S:\PROJ ENGR 1 (Negangard)\Dust Squad\FAP 662 (IL 4) Henderson pdfs\CADD Sheets\D6727 schedule.dgn	USER NAME = madonıavj	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 2.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = Aug-17-2009 04:04:58PM	DATE -	REVISED -

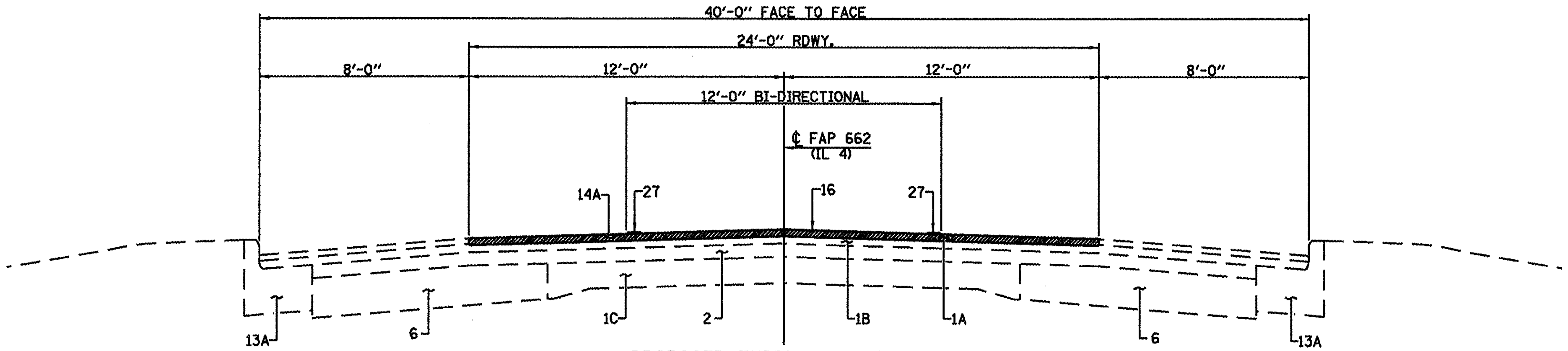
Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL. Design Firm
No. 184-001907

SCHEDULE OF QUANTITIES

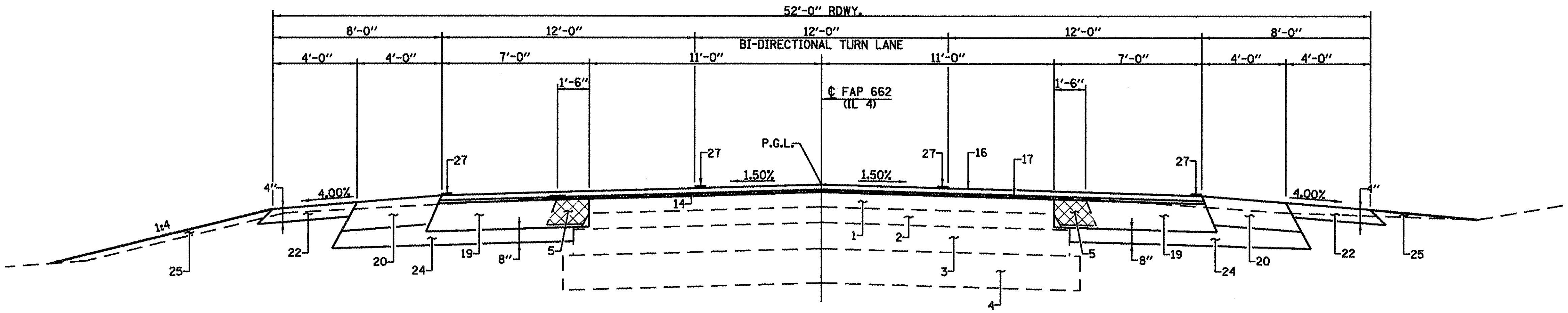
SCALE: NONE | SHEET NO. 3 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	9
		CONTRACT NO. 72765		

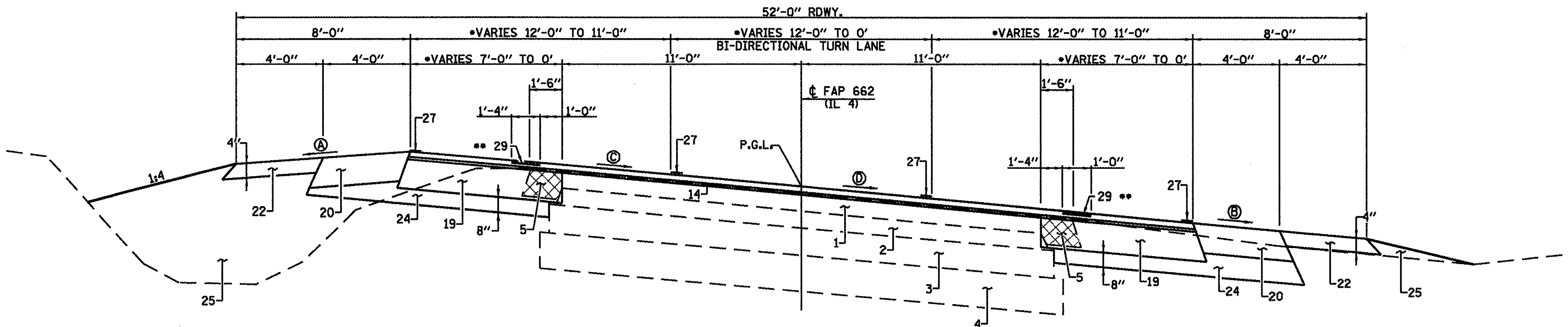
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



PROPOSED TYPICAL SECTION #1
STA. 352+50 TO STA. 354+28



PROPOSED TYPICAL SECTION #2
STA. 354+28.17 TO STA. 355+10



PROPOSED TYPICAL SECTION #3
STA. 355+10 TO STA. 355+78.06 SE TRANS.
STA. 355+78.06 TO STA. 381+93.49 FULL SE=4.44%
STA. 381+93.49 TO STA. 383+36.64 SE TRANS.

* TAPER PAVEMENT FROM 36' TO 22' FROM STA. 370+00 TO STA. 373+85

** BEGIN AT STA. 368+00

Ⓐ VAR. -4.06% TO -3.56%
Ⓑ VAR. -4.00% TO -4.44%
Ⓒ VAR. -1.50% TO +4.44%
Ⓓ VAR. -1.50% TO -4.44%

PAVEMENT LEGEND

1. EX HMA RESURF., 3"
1A. EX HMA SURF., 1 1/2"
1B. EX HMA BINDER, 1 3/4"
1C. EX PCC PVMT (8-6-8)
2. EX HMA SURF., 3"
3. EX STONE BASE CSE., 7 1/2"
4. EX SUB-BASE GRAN. MATL.
5. EX HMA SHLD, 6" (TBR)
6. EX PCC PVMT, 8"
7. EX HMA WIDENING, 10"
8. EX GRAN. EMB. SPECIAL, VARIES
9. EX PCC PVMT W/ HMA WIDENING, 9"
10. EX PCC PVMT W/ PCC WIDEING, 9"
11. EX HMA SHOULDER 8"
12. EX CONCRETE GUTTER, TY A
13. EX CONCRETE C & G, TYPE B 6.12
13A. EX CONCRETE C & G, TYPE 3

14. PR HMA SURF. REM., VAR. DEPTH (1/2" AT ℄)
14A. PR HMA SURF REM, 1 1/2"
15. PR HMA SURF. REM., 2 1/4"
16. PR HMA SURF, CSE., 1 1/2"
17. PR LEVELING BINDER (MM), 3/4" MIN.
18. PR HMA BASE CSE./WIDENING, 10"
19. PR HMA BASE CSE./WIDENING, 12"
20. PR HMA SHLD, 8"
21. PR HMA SHLD, 2 1/4" & VAR.
22. PR AGG SHLD, TYPE B
23. PR HMA BINDER CSE., 2 1/4" (MIN.)
24. PR SUB-BASE GRAN. MATL., TY A, VAR DEPTH
25. PR EARTH EXC./EMB.
26. PR GRADING & SHAPING SHLD.
27. PR PVMT MARKING, LINE 5"
28. PR TEMP GUARDRAIL
29. PR SHLD RUMBLE STRIPS

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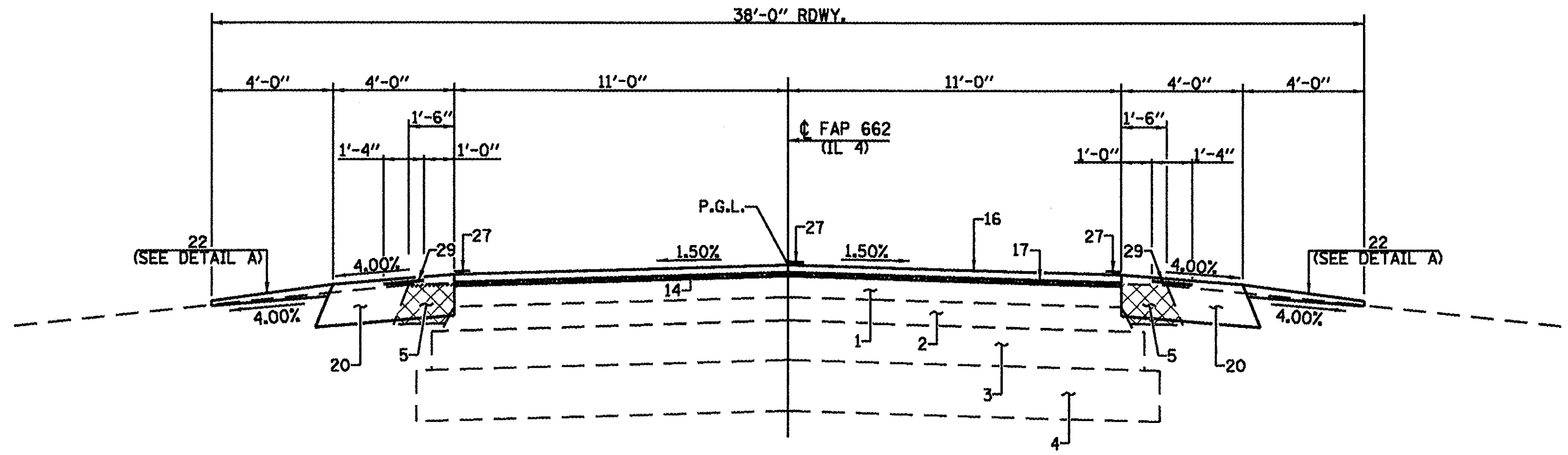
No. 184-001907

TYPICAL ROADWAY SECTIONS

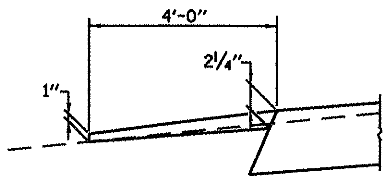
SCALE: NONE	SHEET NO. 1 OF 7 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	DIW-3,RS-11,CR)	MACOUPIN	102	10
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

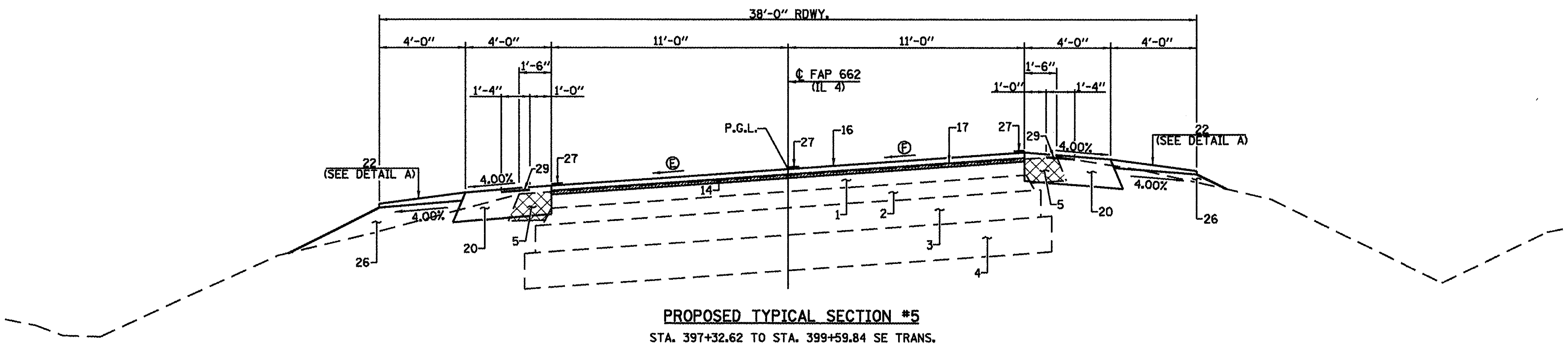


PROPOSED TYPICAL SECTION #4

STA. 383+36.64 TO STA. 394+50.10
STA. 394+50.10 TO STA. 394+60.56 RAILROAD OMISSION
STA. 394+60.56 TO STA. 397+32.62
STA. 423+11.00 TO STA. 424+10.00
STA. 468+11.00 TO STA. 472+41.00



DETAIL A



PROPOSED TYPICAL SECTION #5

STA. 397+32.62 TO STA. 399+59.84 SE TRANS.
STA. 399+59.84 TO STA. 420+83.78 FULL SE=3.57%
STA. 420+83.78 TO STA. 421+37.11 (BK) SE TRANS.
STA. 421+40.62 (AH) TO STA. 423+11.00 SE TRANS.

STA. EQ. 421+37.11 (BK) = 421+40.62

Ⓔ VAR. -1.50% TO -3.50%
Ⓕ VAR. -1.50% TO +3.50%

PAVEMENT LEGEND

1. EX HMA RESURF., 3"
1A. EX HMA SURF., $1^1/_2$"
1B. EX HMA BINDER, $1^3/_4$"
1C. EX PCC PVMT (8-6-8)
2. EX HMA SURF., 3"
3. EX STONE BASE CSE., $7^1/_2$"
4. EX SUB-BASE GRAN. MATL.
5. EX HMA SHLD. 6" (TBR)
6. EX PCC PVMT, 8"
7. EX HMA WIDENING, 10"
8. EX GRAN. EMB. SPECIAL, VARIES
9. EX PCC PVMT W/ HMA WIDENING, 9"
10. EX PCC PVMT W/ PCC WIDEING, 9"
11. EX HMA SHOULDER 8"
12. EX CONCRETE GUTTER, TY A
13. EX CONCRETE C & G, TYPE B 6.12
13A. EX CONCRETE C & G, TYPE 3

14. PR HMA SURF. REM., VAR. DEPTH (1/2" AT ℄)
14A. PR HMA SURF REM., $1^1/_2$"
15. PR HMA SURF. REM., $2^1/_4$"
16. PR HMA SURF, CSE., $1^1/_2$"
17. PR LEVELING BINDER (MM),$^3/_4$" MIN.
18. PR HMA BASE CSE./WIDENING, 10"
19. PR HMA BASE CSE./WIDENING, 12"
20. PR HMA SHLD, 8"
21. PR HMA SHLD, $2^1/_4$" & VAR.
22. PR AGG SHLD, TYPE B
23. PR HMA BINDER CSE., $2^1/_4$" (MIN.)
24. PR SUB-BASE GRAN. MATL., TY A, VAR DEPTH
25. PR EARTH EXC./EMB.
26. PR GRADING & SHAPING SHLD.
27. PR PVMT MARKING, LINE 5"
28. PR TEMP GUARDRAIL
29. PR SHLD RUMBLE STRIPS

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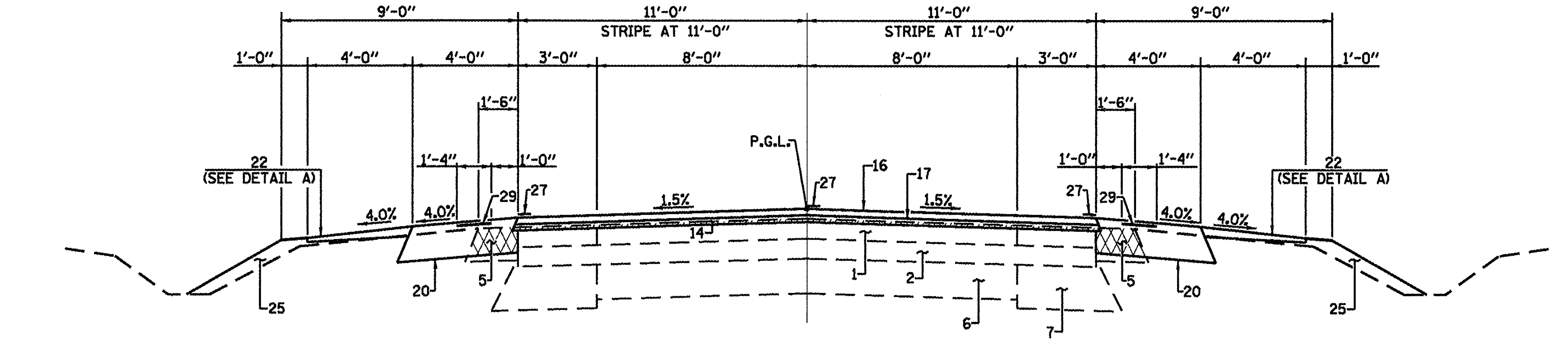
No. 184-001907

TYPICAL ROADWAY SECTIONS

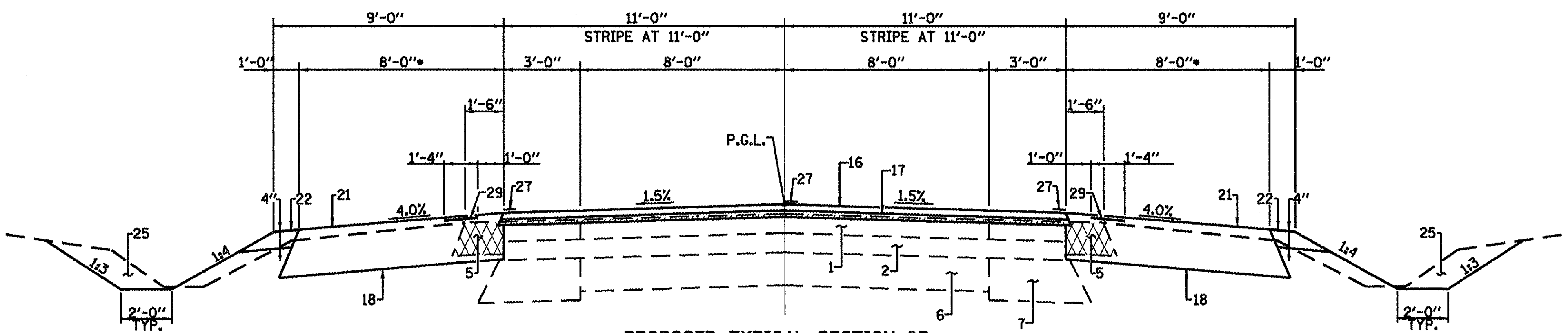
SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	11
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



PROPOSED TYPICAL SECTION #6

STA. 424+10.00 TO STA. 444+30.40
RT. STA. 444+30.40 TO RT. STA. 445+00.00
STA. 455+25.00 TO STA. 465+25.00



PROPOSED TYPICAL SECTION #7

LT. STA. 444+30.40 TO LT. STA. 446+70.00
RT. STA. 445+00.00 TO RT. STA. 446+70.00
STA. 454+55.00 TO STA. 455+25.00

PAVEMENT LEGEND

1. EX HMA RESURF., 3"
1A. EX HMA SURF, 1½"
1B. EX HMA BINDER, 1¾"
1C. EX PCC PVMT (8-6-8)
2. EX HMA SURF., 3"
3. EX STONE BASE CSE., 7½"
4. EX SUB-BASE GRAN. MATL.
5. EX HMA SHLD, 6" (TBR)
6. EX PCC PVMT, 8"
7. EX HMA WIDENING, 10"
8. EX GRAN. EMB. SPECIAL, VARIES
9. EX PCC PVMT W/ HMA WIDENING, 9"
10. EX PCC PVMT W/ PCC WIDEING, 9"
11. EX HMA SHOULDER 8"
12. EX CONCRETE GUTTER, TY A
13. EX CONCRETE C & G, TYPE B 6.12
13A. EX CONCRETE C & G, TYPE 3

14. PR HMA SURF. REM., VAR. DEPTH (1/2" AT ℄)
14A. PR HMA SURF REM, 1½"
15. PR HMA SURF. REM., 2¼"
16. PR HMA SURF. CSE., 1½"
17. PR LEVELING BINDER (MM),¾" MIN.
18. PR HMA BASE CSE./WIDENING, 10"
19. PR HMA BASE CSE./WIDENING, 12"
20. PR HMA SHLD, 8"
21. PR HMA SHLD, 2¼" & VAR.
22. PR AGG SHLD, TYPE B
23. PR HMA BINDER CSE., 2¼" (MIN.)
24. PR SUB-BASE GRAN. MATL., TY A, VAR DEPTH
25. PR EARTH EXC./EMB.
26. PR GRADING & SHAPING SHLD.
27. PR PVMT MARKING, LINE 5"
28. PR TEMP GUARDRAIL
29. PR SHLD RUMBLE STRIPS

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No. 184-001907

TYPICAL ROADWAY SECTIONS

SCALE: NONE	SHEET NO. 3 OF 7 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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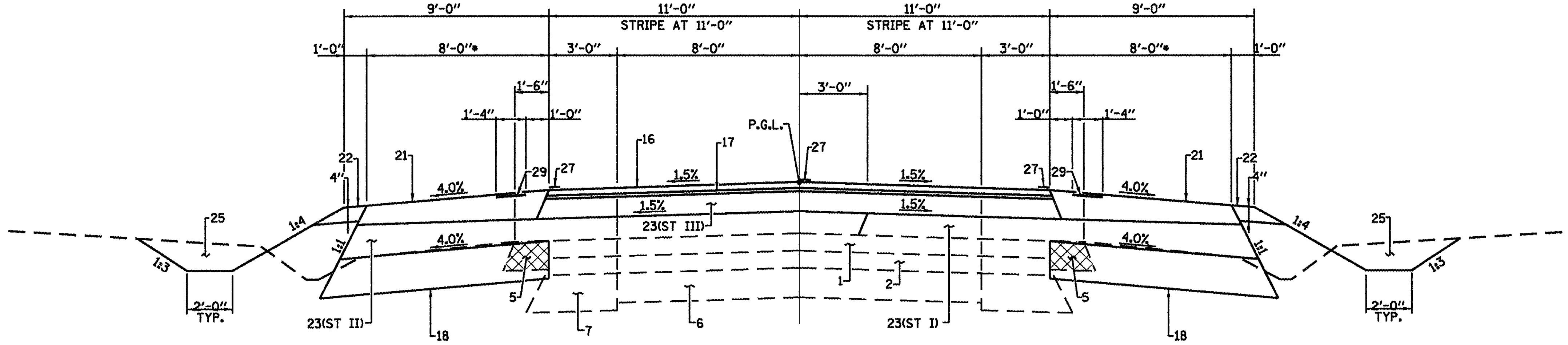
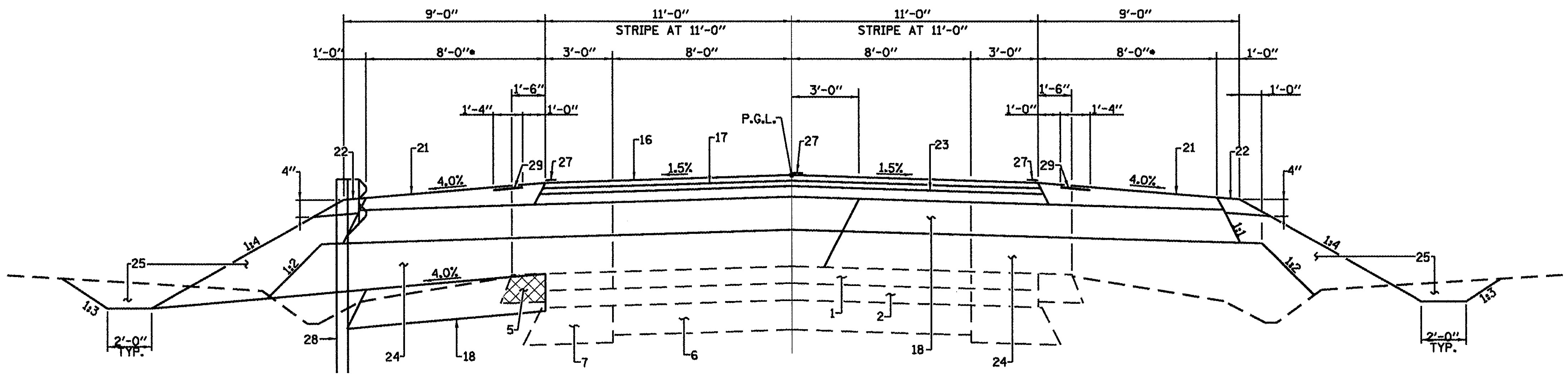
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PROPOSED TYPICAL SECTION #8

STA. 446+70.00 TO STA. 447+50.00 - NO STAGE I & II BINDER COURSE/LIFTS
STA. 447+50.00 TO STA. 448+25.00
STA. 452+25.00 TO STA. 453+00.00
STA. 453+00.00 TO STA. 454+55.00 - NO STAGE I & II BINDER COURSE/LIFTS



PROPOSED TYPICAL SECTION #9

STA. 448+25.00 TO STA. 449+45.00
STA. 449+45.00 TO STA. 450+05.00 - CULVERT REPL.; EX PVMT REMOVAL; GRAN. CULV. BACKFILL
STA. 450+05.00 TO STA. 452+25.00

PAVEMENT LEGEND

1. EX HMA RESURF., 3"
1A. EX HMA SURF, 1½"
1B. EX HMA BINDER, 1¾"
1C. EX PCC PVMT (8-6-8)
2. EX HMA SURF., 3"
3. EX STONE BASE CSE., 7½"
4. EX SUB-BASE GRAN. MATL.
5. EX HMA SHLD, 6" (TBR)
6. EX PCC PVMT, 8"
7. EX HMA WIDENING, 10"
8. EX GRAN. EMB. SPECIAL, VARIES
9. EX PCC PVMT W/ HMA WIDENING, 9"
10. EX PCC PVMT W/ PCC WIDEING, 9"
11. EX HMA SHOULDER 8"
12. EX CONCRETE GUTTER, TY A
13. EX CONCRETE C & G, TYPE B 6.12
13A. EX CONCRETE C & G, TYPE 3

14. PR HMA SURF. REM., VAR. DEPTH (1/2" AT ℄)
14A. PR HMA SURF REM, 1½"
15. PR HMA SURF. REM., 2¼"
16. PR HMA SURF, CSE., 1½"
17. PR LEVELING BINDER (MM),¾" MIN.
18. PR HMA BASE CSE./WIDENING, 10"
19. PR HMA BASE CSE./WIDENING, 12"
20. PR HMA SHLD, 8"
21. PR HMA SHLD, 2¼" & VAR.
22. PR AGG SHLD, TYPE B
23. PR HMA BINDER CSE., 2¼" (MIN.)
24. PR SUB-BASE GRAN. MATL., TY A, VAR DEPTH
25. PR EARTH EXC./EMB.
26. PR GRADING & SHAPING SHLD.
27. PR PVMT MARKING, LINE 5"
28. PR TEMP GUARDRAIL
29. PR SHLD RUMBLE STRIPS

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		DATE -	REVISED -		SCALE: NONE / SHEET NO. 4 OF 7 SHEETS / STA. / TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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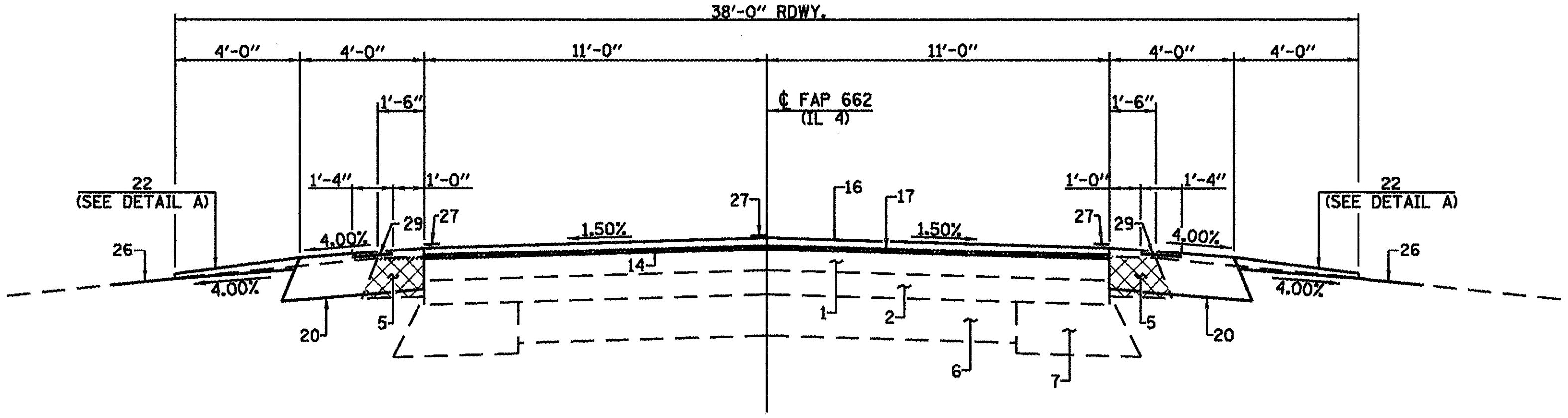
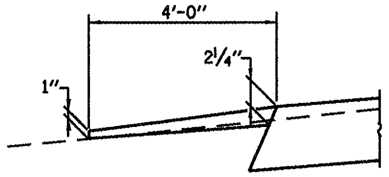
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

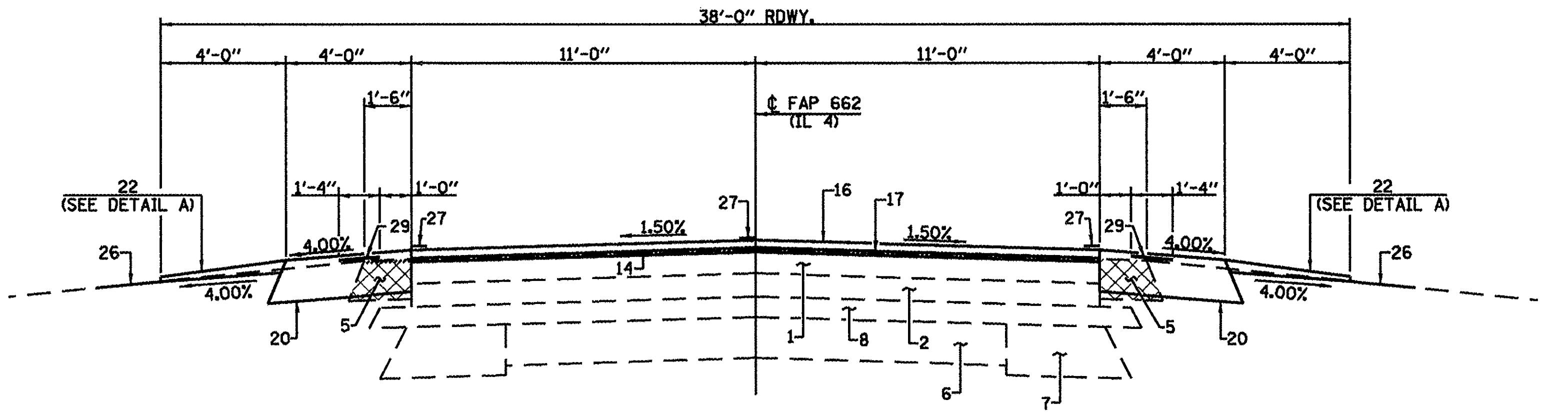


PROPOSED TYPICAL SECTION #10

STA. 467+75 TO STA. 468+11
STA. 472+41 TO STA. 472+75
STA. 475+30 TO STA. 513+03.14



DETAIL A



PROPOSED TYPICAL SECTION #11

STA. 465+25.00 TO STA. 467+75.00
STA. 472+75 TO STA. 475+30

PAVEMENT LEGEND

1. EX HMA RESURF., 3"
1A. EX HMA SURF, 1½"
1B. EX HMA BINDER, 1¾"
1C. EX PCC PVMT (8-6-8)
2. EX HMA SURF., 3"
3. EX STONE BASE CSE., 7½"
4. EX SUB-BASE GRAN. MATL.
5. EX HMA SHLD, 6" (TBR)
6. EX PCC PVMT, 8"
7. EX HMA WIDENING, 10"
8. EX GRAN. EMB. SPECIAL, VARIES
9. EX PCC PVMT W/ HMA WIDENING, 9"
10. EX PCC PVMT W/ PCC WIDEING, 9"
11. EX HMA SHOULDER 8"
12. EX CONCRETE GUTTER, TY A
13. EX CONCRETE C & G, TYPE B 6.12
13A. EX CONCRETE C & G, TYPE 3

14. PR HMA SURF. REM., VAR. DEPTH (1/2" AT ℄)
14A. PR HMA SURF REM, 1½"
15. PR HMA SURF. REM., 2¼"
16. PR HMA SURF. CSE., 1½"
17. PR LEVELING BINDER (MM),¾" MIN.
18. PR HMA BASE CSE./WIDENING, 10"
19. PR HMA BASE CSE./WIDENING, 12"
20. PR HMA SHLD, 8"
21. PR HMA SHLD, 2¼" & VAR.
22. PR AGG SHLD, TYPE B
23. PR HMA BINDER CSE., 2¼" (MIN.)
24. PR SUB-BASE GRAN. MATL., TY A, VAR DEPTH
25. PR EARTH EXC./EMB.
26. PR GRADING & SHAPING SHLD.
27. PR PVMT MARKING, LINE 5"
28. PR TEMP GUARDRAIL
29. PR SHLD RUMBLE STRIPS

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No. 184-001907

TYPICAL ROADWAY SECTIONS

SCALE: NONE | SHEET NO. 5 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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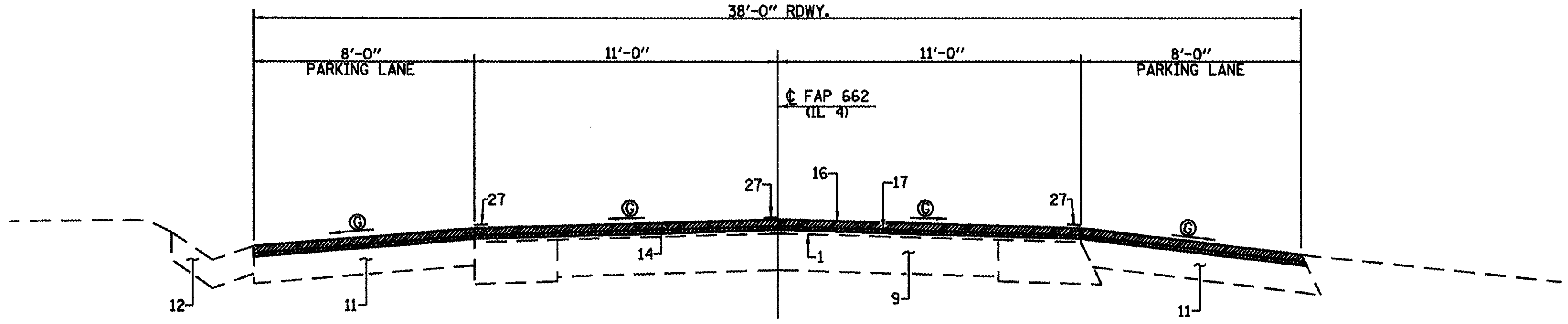
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

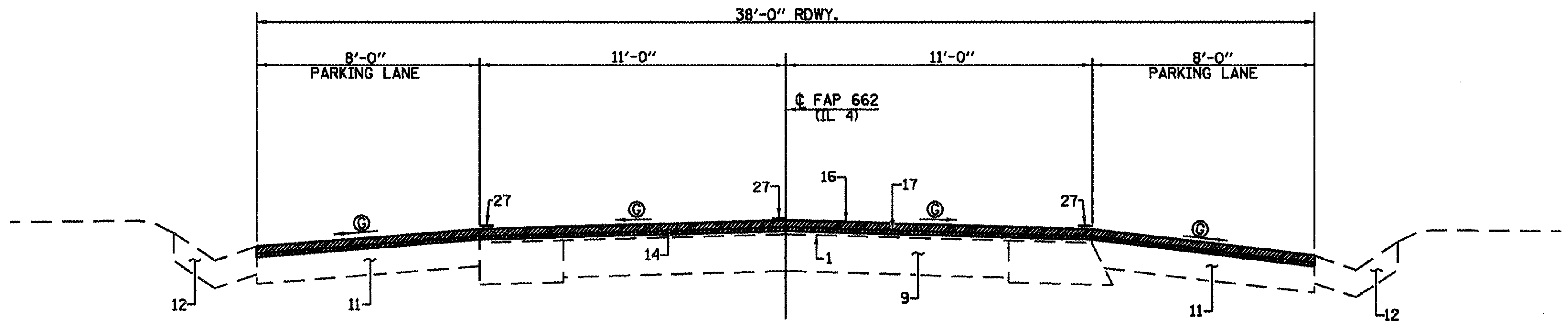


PROPOSED TYPICAL SECTION #12

STA. 513+03.14 TO STA. 9+43.35

STA. EQ. 518+63.85 (BK) = 7+90.71 (AH)

Ⓖ MATCH EX PVMT CROSS SLOPE



PROPOSED TYPICAL SECTION #13

STA. 9+43.35 TO STA. 11+84

PAVEMENT LEGEND

1. EX HMA RESURF., 3"
1A. EX HMA SURF. 1½"
1B. EX HMA BINDER, 1¾"
1C. EX PCC PVMT (8-6-8)
2. EX HMA SURF., 3"
3. EX STONE BASE CSE., 7½"
4. EX SUB-BASE GRAN. MATL.
5. EX HMA SHLD. 6" (TBR)
6. EX PCC PVMT. 8"
7. EX HMA WIDENING, 10"
8. EX GRAN. EMB. SPECIAL, VARIES
9. EX PCC PVMT W/ HMA WIDENING, 9"
10. EX PCC PVMT W/ PCC WIDEING, 9"
11. EX HMA SHOULDER 8"
12. EX CONCRETE GUTTER, TY A
13. EX CONCRETE C & G, TYPE B 6.12
13A. EX CONCRETE C & G, TYPE 3

14. PR HMA SURF. REM., VAR. DEPTH (1/2" AT ℄)
14A. PR HMA SURF REM, 1½"
15. PR HMA SURF. REM., 2¼"
16. PR HMA SURF. CSE., 1½"
17. PR LEVELING BINDER (MM),¾" MIN.
18. PR HMA BASE CSE./WIDENING, 10"
19. PR HMA BASE CSE./WIDENING, 12"
20. PR HMA SHLD, 8"
21. PR HMA SHLD, 2¼" & VAR.
22. PR AGG SHLD, TYPE B
23. PR HMA BINDER CSE., 2¼" (MIN.)
24. PR SUB-BASE GRAN. MATL., TY A, VAR DEPTH
25. PR EARTH EXC./EMB.
26. PR GRADING & SHAPING SHLD.
27. PR PVMT MARKING, LINE 5"
28. PR TEMP GUARDRAIL
29. PR SHLD RUMBLE STRIPS

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No. 184-001907

TYPICAL ROADWAY SECTIONS

SCALE: NONE	SHEET NO. 6 OF 7 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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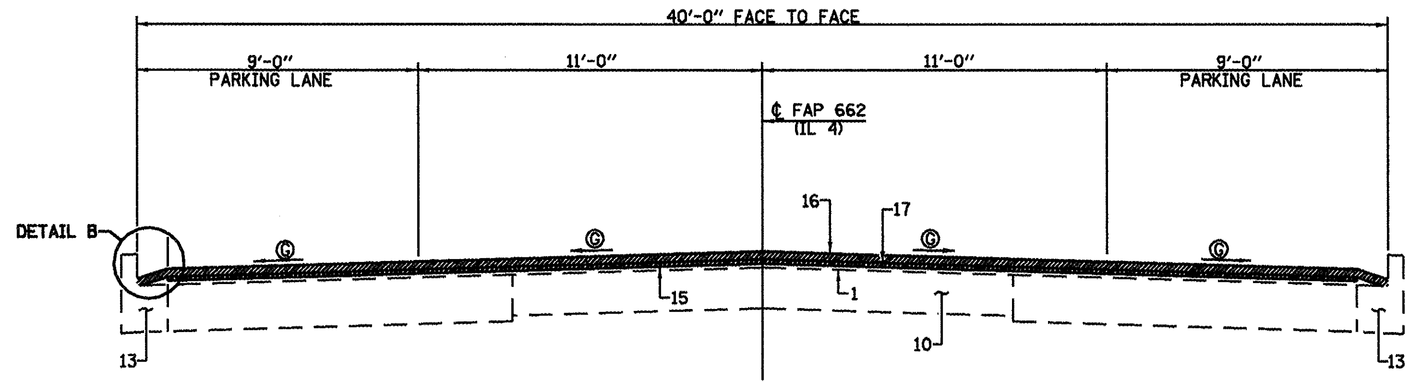
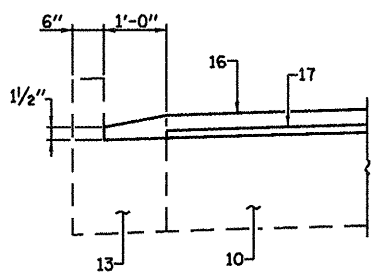
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PROPOSED TYPICAL SECTION #14
STA. 11+84 TO STA. 34+04

Ⓒ MATCH EX PVMT CROSS SLOPE



DETAIL "B"

PAVEMENT LEGEND

1. EX HMA RESURF., 3"
1A. EX HMA SURF. 1½"
1B. EX HMA BINDER, 1¾"
1C. EX PCC PVMT (8-6-8)
2. EX HMA SURF., 3"
3. EX STONE BASE CSE., 7½"
4. EX SUB-BASE GRAN. MATL.
5. EX HMA SHLD. 6" (TBR)
6. EX PCC PVMT, 8"
7. EX HMA WIDENING, 10"
8. EX GRAN. EMB. SPECIAL, VARIES
9. EX PCC PVMT W/ HMA WIDENING, 9"
10. EX PCC PVMT W/ PCC WIDEING, 9"
11. EX HMA SHOULDER 8"
12. EX CONCRETE GUTTER, TY A
13. EX CONCRETE C & G, TYPE B 6.12
13A. EX CONCRETE C & G, TYPE 3

14. PR HMA SURF. REM., VAR. DEPTH (1/2" AT ℄)
14A. PR HMA SURF REM, 1½"
15. PR HMA SURF. REM., 2¼"
16. PR HMA SURF. CSE., 1½"
17. PR LEVELING BINDER (MM),¾" MIN.
18. PR HMA BASE CSE./WIDENING, 10"
19. PR HMA BASE CSE./WIDENING, 12"
20. PR HMA SHLD, 8"
21. PR HMA SHLD, 2¼" & VAR.
22. PR AGG SHLD, TYPE B
23. PR HMA BINDER CSE., 2¼" (MIN.)
24. PR SUB-BASE GRAN. MATL., TY A, VAR DEPTH
25. PR EARTH EXC./EMB.
26. PR GRADING & SHAPING SHLD.
27. PR PVMT MARKING, LINE 5"
28. PR TEMP GUARDRAIL
29. PR SHLD RUMBLE STRIPS

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Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL. Design Firm No. 184-001907

TYPICAL ROADWAY SECTIONS

SCALE: NONE | SHEET NO. 7 OF 7 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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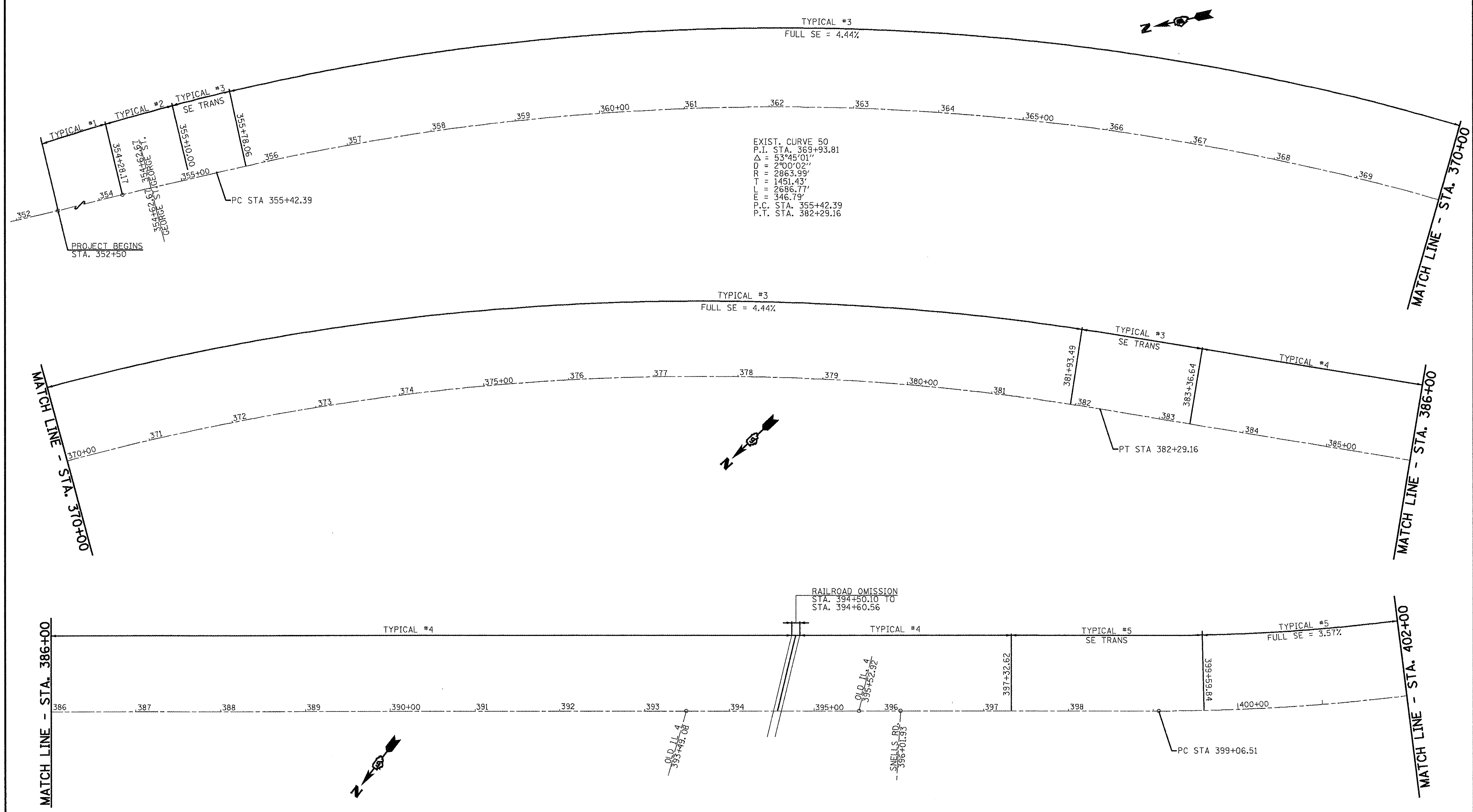
		CONTRACT NO. 72765		

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



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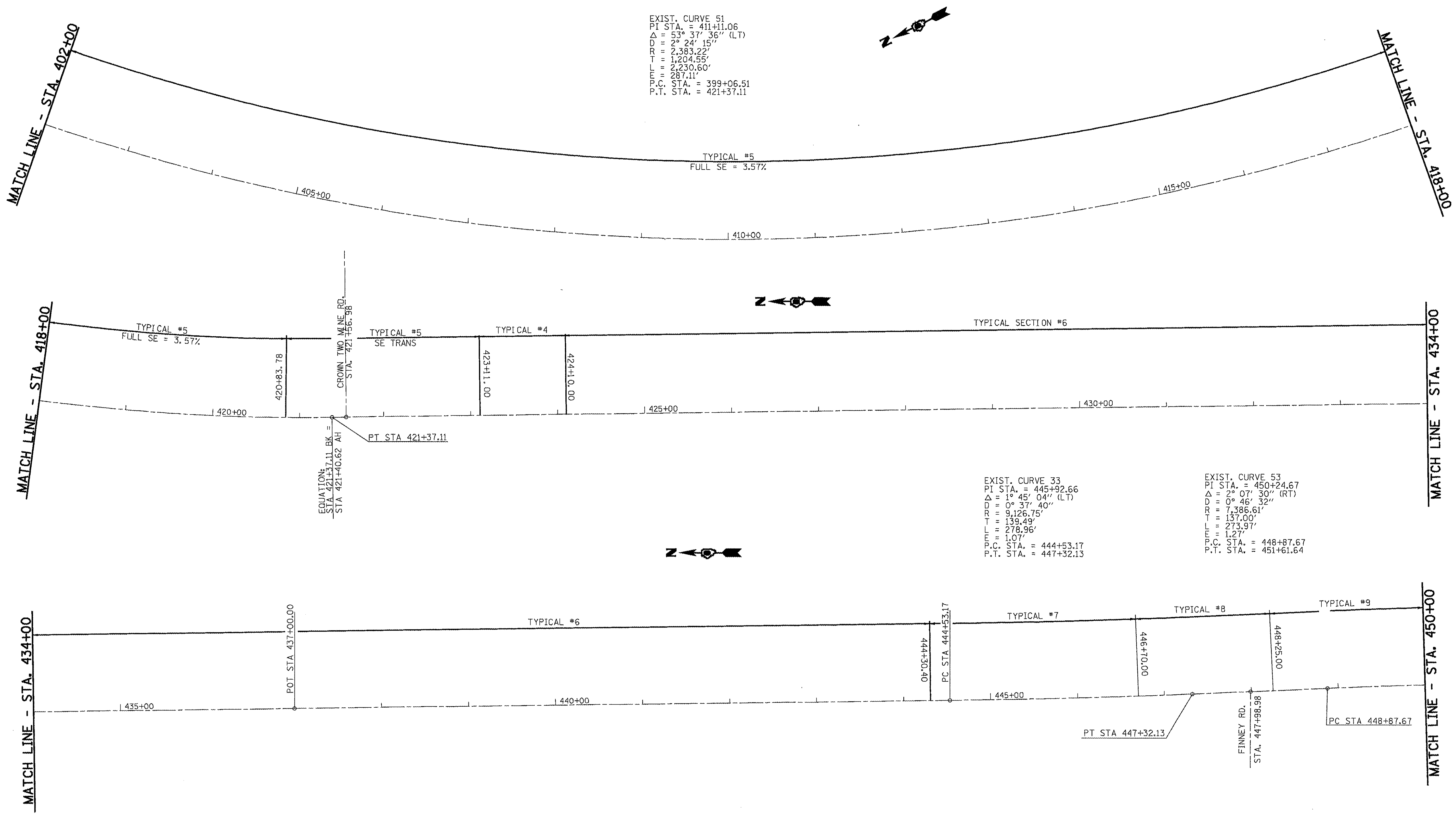
		CHECKED -	REVISED -			
	PLOT DATE = Aug-17-2009 04:05:14PM	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 4 SHEETS

STA. 354+28 TO STA. 402+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	17
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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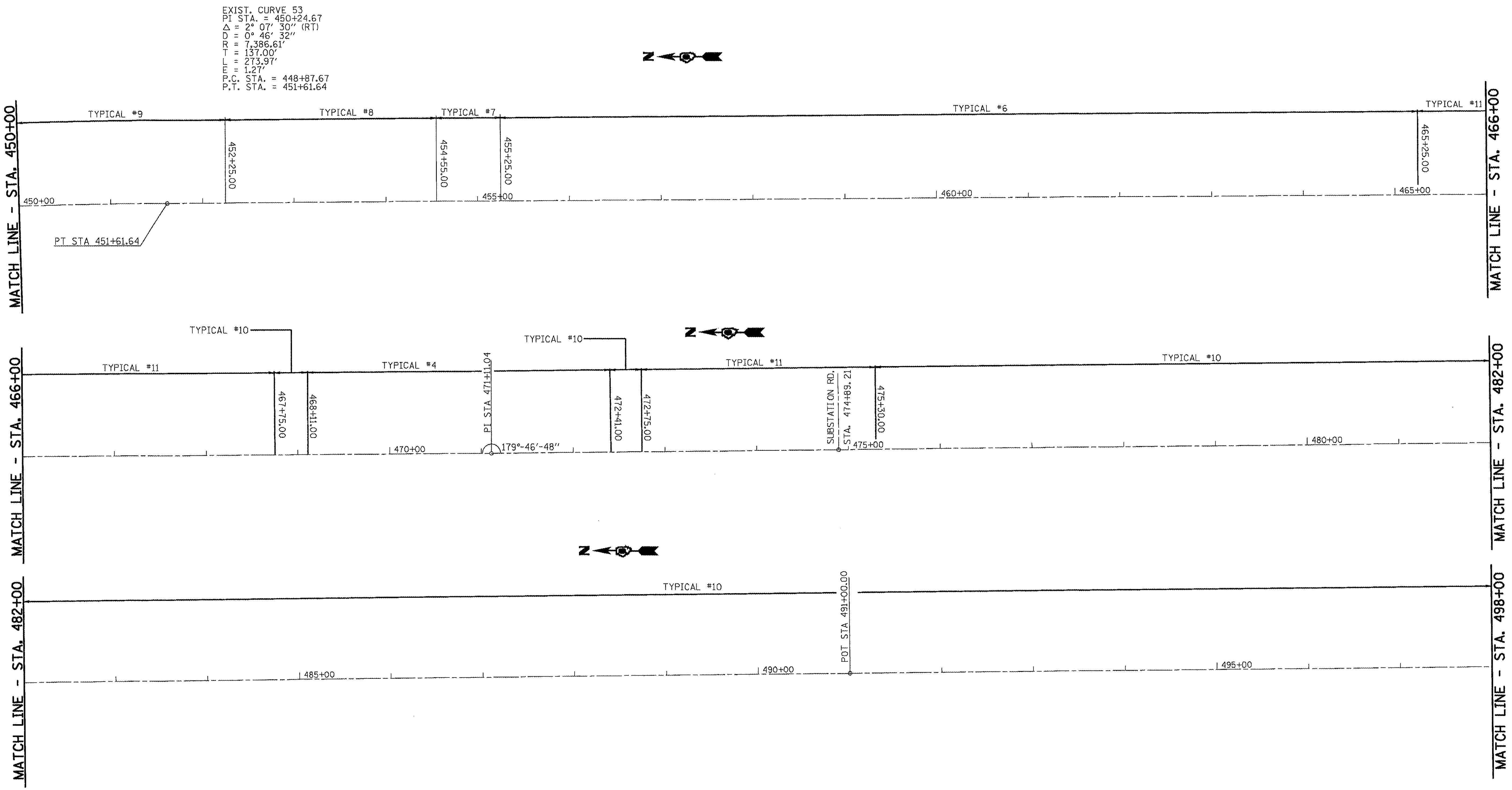
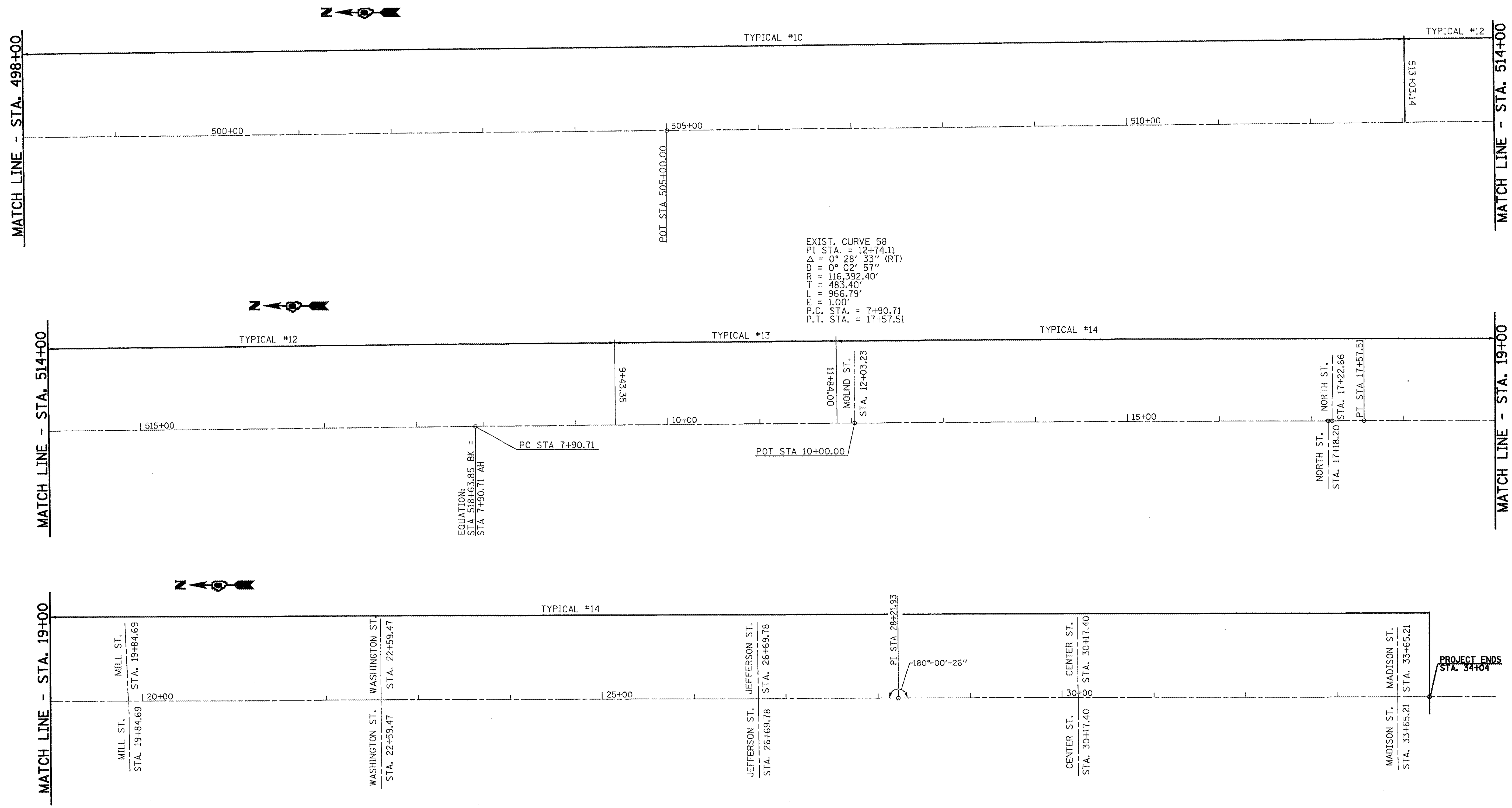
	PLOT SCALE = 110.0000 '/ IN.	DRAWN -	REVISED -		SCALE: NONE
	PLOT DATE = Aug-17-2009 04:05:15PM	CHECKED -	REVISED -		SHEET NO. 2 OF 4 SHEETS
		DATE -	REVISED -		STA. 402+00 TO STA. 450+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	18
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FILE NAME = S:\PROJ ENGR 1 (Negangard)\Dust Squad\FAP 662 (IL 4) Henderson pdfs\CADD Sheets\0672	USER NAME = madoniavj	DESIGNED -	REVISED -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL. Design Firm No. 184-001907	LINE DIAGRAM	F.A.P. RTE. 662 · SECTION D(W-3,RS-11,CR) · COUNTY MACOUPIN · TOTAL SHEETS 102 · SHEET NO. 19
		DRAWN line.dgn	REVISED -			CONTRACT NO. 72765
	PLOT SCALE = 110.0000 ' / IN.	CHECKED -	REVISED -		SCALE: · SHEET NO. 3 OF 4 SHEETS · STA. 450+00 TO STA. 498+00	FED. ROAD DIST. NO. · ILLINOIS · FED. AID PROJECT
	PLOT DATE = Aug-17-2009 04:05:17PM	DATE -	REVISED -			



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	PLOT DATE = Aug-17-2009 04:05:19PM	DATE -	REVISED -

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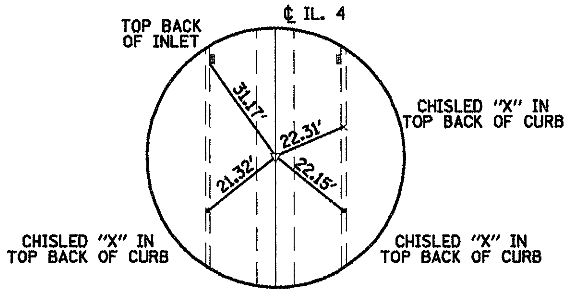
No. 184-001907

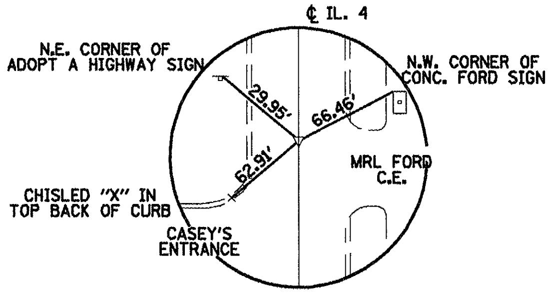
LINE DIAGRAM

SCALE: NONE	SHEET NO. 4 OF 4 SHEETS	STA. 498+00 TO STA. 34+04

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	20
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



P.O.T. STA. 345+38.18
PK NAIL IN
CHISLED "X"



P.C. STA. 355+45.37
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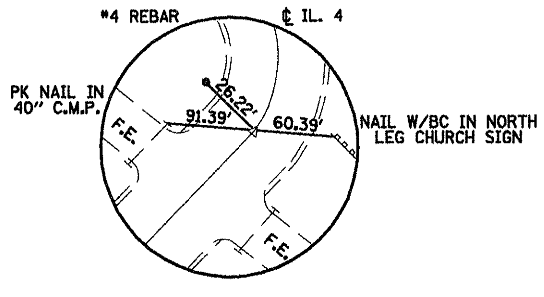

P.T. STA. 382+29.16
PK NAIL IN
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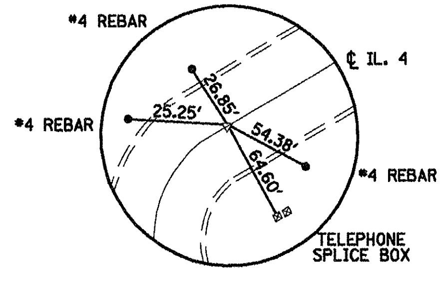
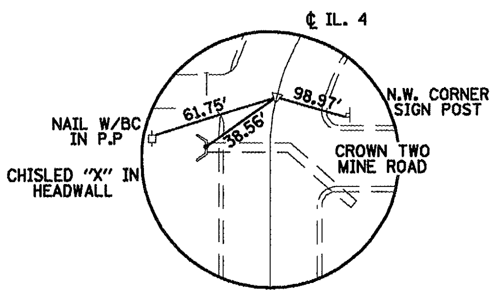
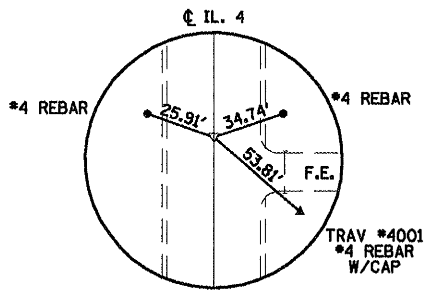


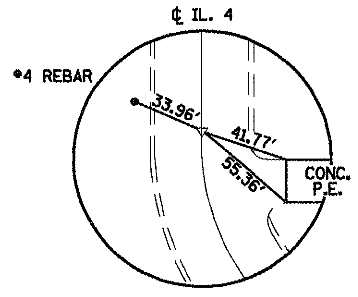
P.C. STA. 399+06.52
PK NAIL W/BC



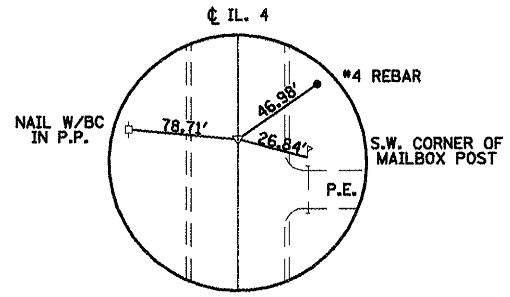
STATION EQUATION
BK. STA. 421+37.11
AH. STA. 421+40.62
PK NAILW/BC



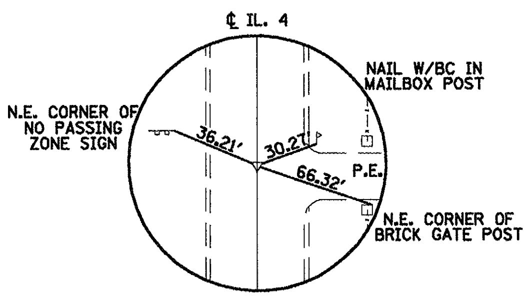
P.O.T. STA. 437+00.00
PK NAIL W/BC



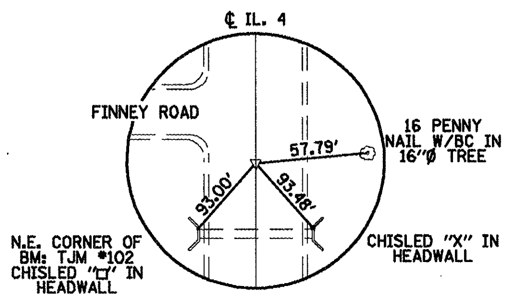
P.C. STA. 444+53.17
PK NAIL W/BC



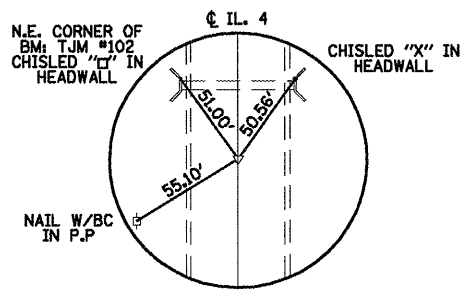
P.I. STA. 445+92.66
PK NAIL IN
CHISLED "X"



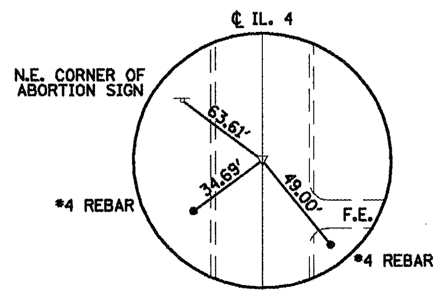
P.T. STA. 447+32.13
PK NAIL W/BC IN
CHISLED "X"



P.C. STA. 448+87.67
PK NAIL W/BC IN
CHISLED "X"



P.I. STA. 450+24.67
PK NAIL W/BC IN
CHISLED "X"



P.I. STA. 451+61.64
PK NAIL W/BC IN
CHISLED "X"

N

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	PLOT DATE = Aug-17-2009 04:05:21PM	DATE -	REVISED -

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Civil and Structural Engineers Springfield, IL.
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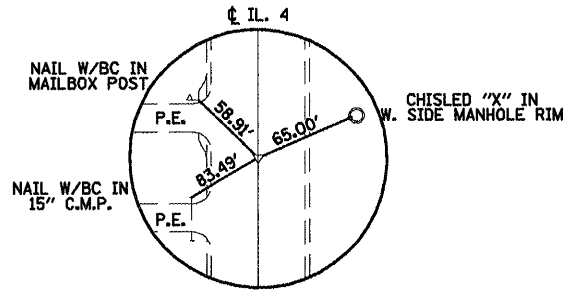
No. 184-001907

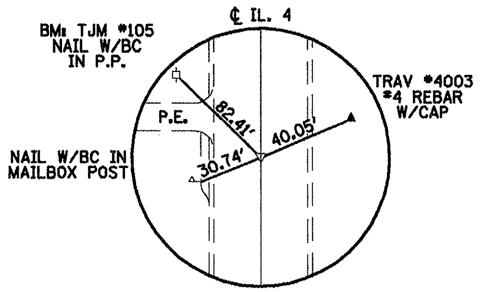
ALIGNMENT TIES & BENCHMARKS

SCALE: NONE	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.

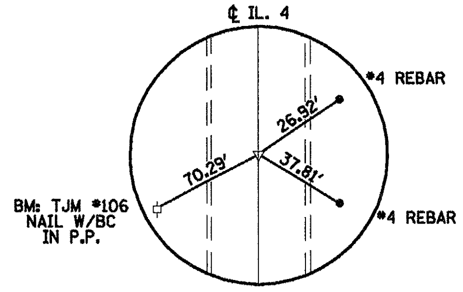
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	21
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



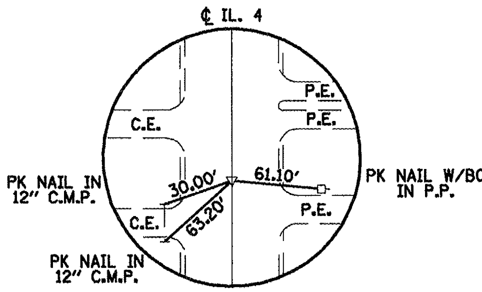
P.I. STA. 471+11.04
PK NAIL IN
CHISLED "X"



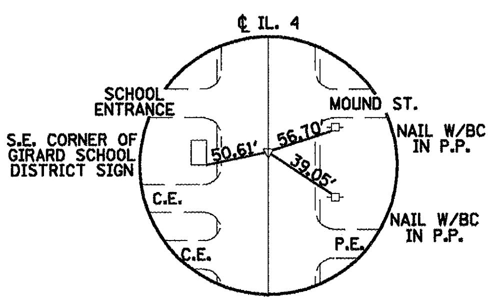
P.O.T. STA. 491+00.00
PK NAIL IN
CHISLED "X"



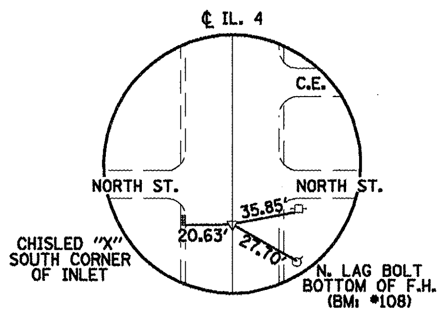
P.O.T. STA. 505+00.00
PK NAIL IN
CHISLED "X"



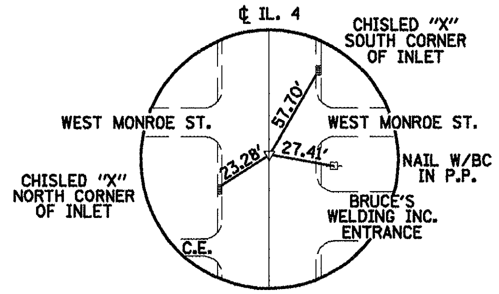
STATION EQUATION
P.O.T. STA. 518+63.85
P.C. STA. 7+90.71
PK NAILW/BC



P.I. STA. 12+74.12
PK NAIL W/BC



P.T. STA. 17+57.51
PK NAIL W/BC



P.O.T. STA. 37+98.22
PK NAIL W/BC

N

BM TA-7: CHISLED "◻" IN NORTH END OF EAST HEADWALL OF 3' x 8' BOX JUST NORTH OF IL. 4 & OLD IL. 4 INTERSECTION - EL. 659.620

BM TJM #100: CHISLED "◻" IN TOP OF NORTH END OF WEST HEADWALL SET ON WEST SIDE OF IL. 4 AT 1.22 MILES SOUTH OF GEORGE ST. IN VIRDEN STA. ±418+66 AT 25' RT. - EL. 656.207

BM TJM #101: 60D NAIL IN EAST FACE OF P.P. SET ON THE WEST SIDE OF IL. 4 AT 1.48 MILES SOUTH OF GEORGE ST. IN VIRDEN STA. ±432+70 AT 60' RT. - EL. 669.891

BM TJM #102: CHISLED "◻" IN TOP OF NORTH END OF WEST HEADWALL SET ON WEST SIDE OF IL. 4 AT 1.81 MILES SOUTH OF GEORGE ST. IN VIRDEN STA. ±449+69 AT 21' RT. - EL. 645.080

BM TJM #103: 60D NAIL IN EAST FACE OF P.P. SET ON WEST SIDE OF IL. 4 AT 2.07 MILES SOUTH OF GEORGE ST. IN VIRDEN STA. ±463+05 AT 60' RT. - EL. 659.194

BM TJM #104: CHISLED "◻" IN TOP CENTER OF WEST HEADWALL AND JUST NORTH SUBSTATION ROAD SET ON WEST SIDE OF IL. 4 AT 2.28 MILES SOUTH OF GEORGE ST. IN VIRDEN STA. ±474+65 AT 25.3' RT. - EL. 658.551

BM TJM #105: 60D NAIL IN EAST FACE OF P.P. SET ±100' NORTH OF FARM HOUSE ON WEST SIDE OF IL. 4 AT 2.59 MILES SOUTH OF GEORGE ST. IN VIRDEN STA. ±490+42 AT 61.3' RT. - EL. 671.377

BM TJM #106: 60D NAIL IN EAST FACE OF P.P. SET ON WEST SIDE OF IL. 4 AT 2.87 MILES SOUTH OF GEORGE ST. IN VIRDEN AND JUST NORTH OF GIRARD STA. ±505+35 - EL. 660.014

BM TJM #107: CHISLED "X" ON TOP OF WEST BOLT OF FIRE HYDRANT SET ON EAST SIDE OF IL. 4 AND JUST WEST OF HOUSE #620 IN GIRARD STA. ±517+50 AT 24.5' LT. - EL. 663.177

BM TJM #108: CHISLED "X" ON TOP OF WEST BOLT OF FIRE HYDRANT SET IN THE SOUTHEAST QUAD OF (IL. 4) THIRD ST. AND W. NORTH ST. SET ON EAST SIDE OF IL. 4 STA. ±17+61.8 AT 27.4' LT. - EL. 665.046

BM #2A: CHISLED "X" IN TOP OF N.W. BOLT OF FIRE HYDRANT SET IN THE SOUTH QUAD OF (IL. 4) THIRD ST. AND W. CENTER ST. IN GIRARD FROM SBI #4 BACK 58' STA. ±30+44 AT 40.5' LT. - EL. 671.375

FILE NAME =	USER NAME = madoniavj	DESIGNED -	REVISED -
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	PLOT DATE = Aug-17-2009 04:05:23PM	DATE -	REVISED -

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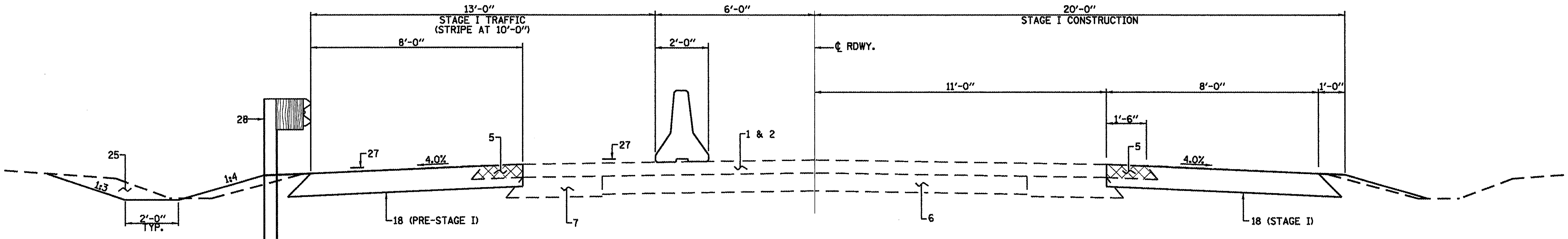
No. 184-001907

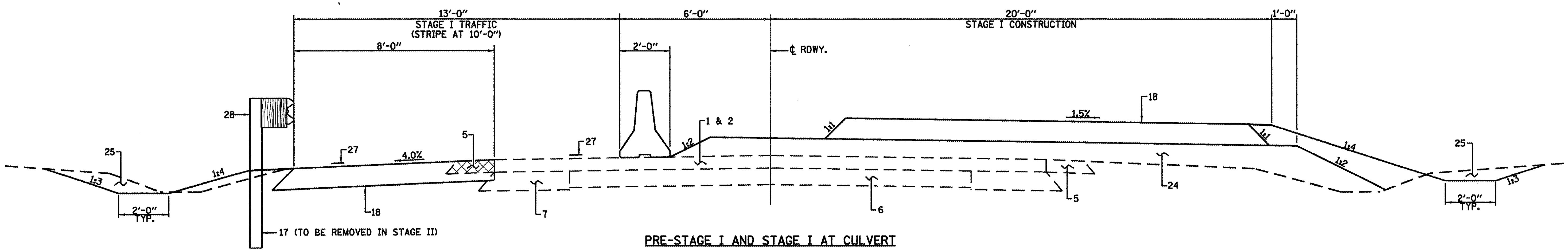
ALIGNMENT TIES & BENCHMARKS

SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	22
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PRE-STAGE I AND STAGE I AT ENDS



PRE-STAGE I AND STAGE I AT CULVERT

PAVEMENT LEGEND

1. EX HMA RESURF., 3"
1A. EX HMA SURF, 1 1/2"
1B. EX HMA BINDER, 1 3/4"
1C. EX PCC PVMT (8-6-8)
2. EX HMA SURF., 3"
3. EX STONE BASE CSE., 7 1/2"
4. EX SUB-BASE GRAN. MATL.
5. EX HMA SHLD, 6" (TBR)
6. EX PCC PVMT, 8"
7. EX HMA WIDENING, 10"
8. EX GRAN. EMB. SPECIAL, VARIES
9. EX PCC PVMT W/ HMA WIDENING, 9"
10. EX PCC PVMT W/ PCC WIDEING, 9"
11. EX HMA SHOULDER 8"
12. EX CONCRETE GUTTER, TY A
13. EX CONCRETE C & G, TYPE B 6.12
13A. EX CONCRETE C & G, TYPE 3
14. PR HMA SURF. REM., VAR. DEPTH (1/2" AT ℄)
14A. PR HMA SURF REM, 1 1/2"
15. PR HMA SURF. REM., 2 1/4"
16. PR HMA SURF, CSE., 1 1/2"
17. PR LEVELING BINDER (MM), 3/4" MIN.
18. PR HMA BASE CSE./WIDENING, 10"
19. PR HMA BASE CSE./WIDENING, 12"
20. PR HMA SHLD, 8"
21. PR HMA SHLD, 2 1/4" & VAR.
22. PR AGG SHLD, TYPE B
23. PR HMA BINDER CSE., 2 1/4" (MIN.)
24. PR SUB-BASE GRAN. MATL., TY A, VAR DEPTH
25. PR EARTH EXC./EMB.
26. PR GRADING & SHAPING SHLD.
27. PR PVMT MARKING, LINE 5"
28. PR TEMP GUARDRAIL
29. PR SHLD RUMBLE STRIPS

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	PLOT DATE = Aug-17-2009 04:05:25PM	DATE -	REVISED -

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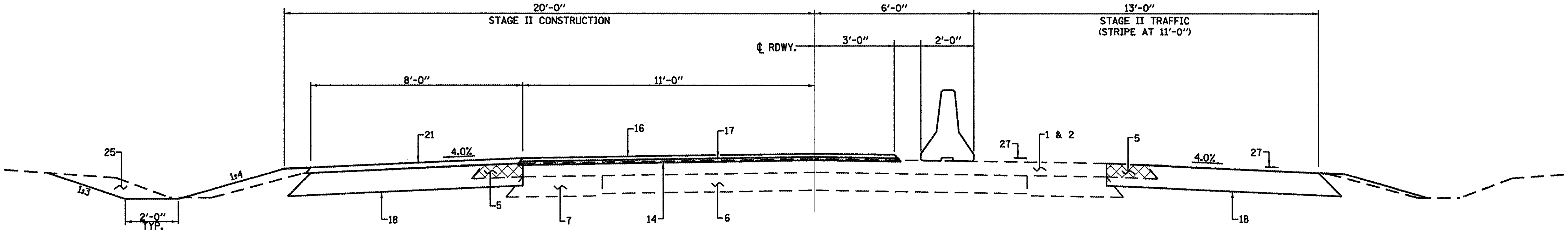
No. 184-001907

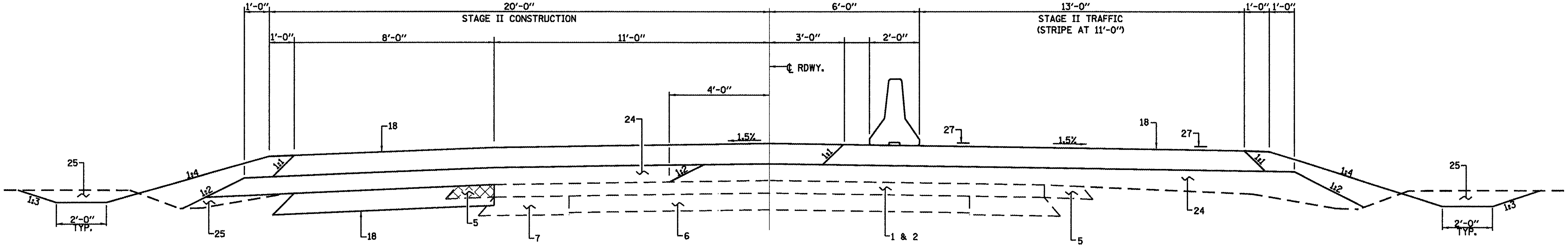
STAGE CONSTRUCTION & TRAFFIC CONTROL DETAILS

SCALE: NONE	SHEET NO. 1 OF 5 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	23
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



STAGE II AT ENDS

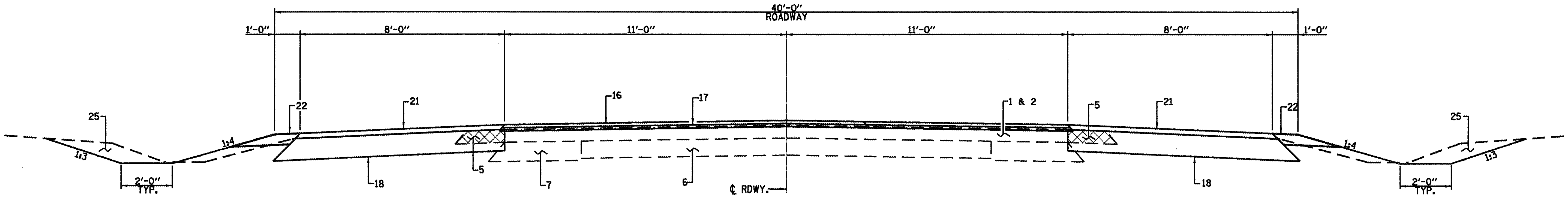


STAGE II AT CULVERT

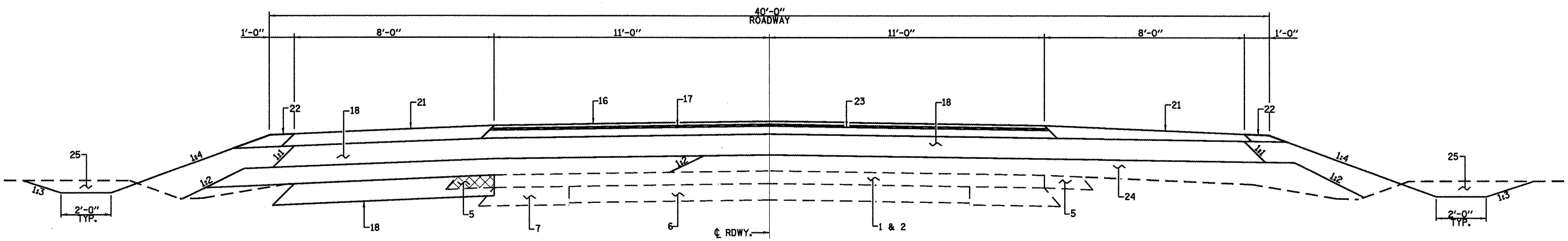
PAVEMENT LEGEND

1. EX HMA RESURF., 3"
1A. EX HMA SURF, 1½"
1B. EX HMA BINDER, 1¾"
1C. EX PCC PVMT (8-6-8)
2. EX HMA SURF., 3"
3. EX STONE BASE CSE., 7½"
4. EX SUB-BASE GRAN. MATL.
5. EX HMA SHLD, 6" (TBR)
6. EX PCC PVMT, 8"
7. EX HMA WIDENING, 10"
8. EX GRAN. EMB. SPECIAL, VARIES
9. EX PCC PVMT W/ HMA WIDENING, 9"
10. EX PCC PVMT W/ PCC WIDEING, 9"
11. EX HMA SHOULDER 8"
12. EX CONCRETE GUTTER, TY A
13. EX CONCRETE C & G, TYPE B 6.12
13A. EX CONCRETE C & G, TYPE 3
14. PR HMA SURF. REM., VAR. DEPTH (1/2" AT ℄)
14A. PR HMA SURF REM, 1½"
15. PR HMA SURF. REM., 2¼"
16. PR HMA SURF. CSE., 1½"
17. PR LEVELING BINDER (MM),¾" MIN.
18. PR HMA BASE CSE./WIDENING, 10"
19. PR HMA BASE CSE./WIDENING, 12"
20. PR HMA SHLD, 8"
21. PR HMA SHLD, 2¼" & VAR.
22. PR AGG SHLD, TYPE B
23. PR HMA BINDER CSE., 2¼" (MIN.)
24. PR SUB-BASE GRAN. MATL., TY A, VAR DEPTH
25. PR EARTH EXC./EMB.
26. PR GRADING & SHAPING SHLD.
27. PR PVMT MARKING, LINE 5"
28. PR TEMP GUARDRAIL
29. PR SHLD RUMBLE STRIPS

FILE NAME =	USER NAME = madoniavj	DESIGNED -	REVISED -	Allen Henderson & Associates, Inc.	STAGE CONSTRUCTION & TRAFFIC CONTROL DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S:\PROJ ENGR 1 (Negangard)\Dust Squad\FAP 662 (IL 4) Henderson pdfs\CADD Sheets\0672?stage-sections.dgn	PLOT SCALE = 4.0002 ' / IN.	DRAWN -	REVISED -	Civil and Structural Engineers Springfield, IL.				662	D(W-3,RS-11,CR)	MACOUPIN	102	24
	PLOT DATE = Aug-17-2009 04:05:27PM	CHECKED -	REVISED -	62703 Phone: (217)544-8033 IL. Design Firm						CONTRACT NO. 72765		
		DATE -	REVISED -	No. 184-001907	SCALE: NONE	SHEET NO. 2 OF 5 SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



STAGE III AT ENDS



STAGE III AT CULVERT

PAVEMENT LEGEND

1. EX HMA RESURF., 3"	14. PR HMA SURF. REM., VAR. DEPTH (1/2" AT ℄)
1A. EX HMA SURF, 1½"	14A. PR HMA SURF REM, 1½"
1B. EX HMA BINDER, 1¾"	15. PR HMA SURF. REM., 2¼"
1C. EX PCC PVMT (8-6-8)	16. PR HMA SURF. CSE., 1½"
2. EX HMA SURF., 3"	17. PR LEVELING BINDER (MM),¾" MIN.
3. EX STONE BASE CSE., 7½"	18. PR HMA BASE CSE./WIDENING, 10"
4. EX SUB-BASE GRAN. MATL.	19. PR HMA BASE CSE./WIDENING, 12"
5. EX HMA SHLD, 6" (TBR)	20. PR HMA SHLD, 8"
6. EX PCC PVMT, 8"	21. PR HMA SHLD, 2¼" & VAR.
7. EX HMA WIDENING, 10"	22. PR AGG SHLD, TYPE B
8. EX GRAN. EMB. SPECIAL, VARIES	23. PR HMA BINDER CSE., 2¼" (MIN.)
9. EX PCC PVMT W/ HMA WIDENING, 9"	24. PR SUB-BASE GRAN. MATL., TY A, VAR DEPTH
10. EX PCC PVMT W/ PCC WIDEING, 9"	25. PR EARTH EXC./EMB.
11. EX HMA SHOULDER 8"	26. PR GRADING & SHAPING SHLD.
12. EX CONCRETE GUTTER, TY A	27. PR PVMT MARKING, LINE 5"
13. EX CONCRETE C & G, TYPE B 6.12	28. PR TEMP GUARDRAIL
13A. EX CONCRETE C & G, TYPE 3	29. PR SHLD RUMBLE STRIPS

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REVISED - | REVISED - | REVISED - | REVISED -
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Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL. Design Firm
No. 184-001907

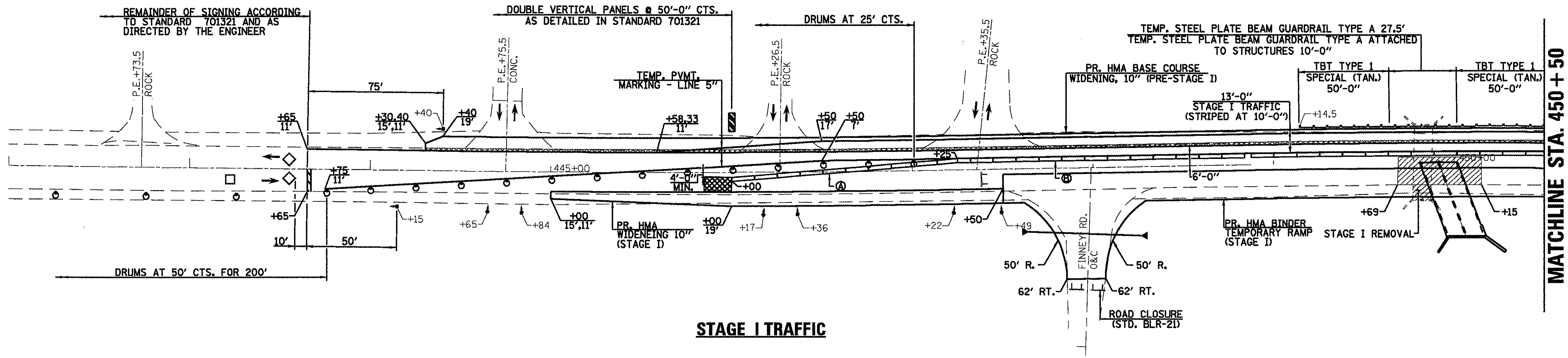
STAGE CONSTRUCTION & TRAFFIC CONTROL DETAILS

SCALE: NONE | SHEET NO. 3 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	25

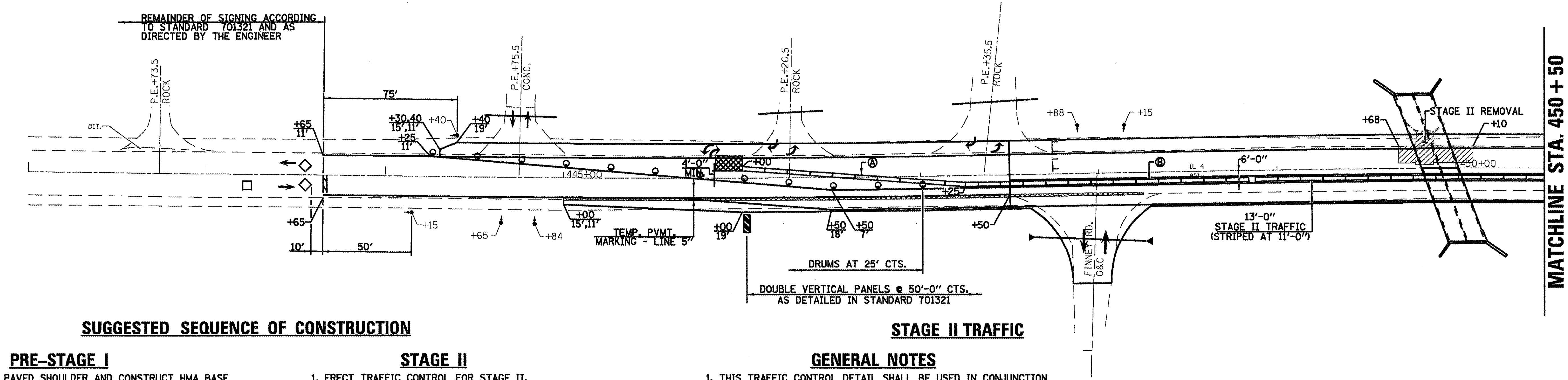
CONTRACT NO. 72765

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



STAGE I TRAFFIC

Ⓐ TEMPORARY CONCRETE BARRIER = 125'-0"
Ⓑ TEMPORARY CONCRETE BARRIER = 600'-0"



STAGE II TRAFFIC

SUGGESTED SEQUENCE OF CONSTRUCTION

PRE-STAGE I

1. REMOVE PAVED SHOULDER AND CONSTRUCT HMA BASE COURSE WIDENING STA. 444+30.40 TO STA. 454+25 LT.
2. INSTALL TEMPORARY GUARDRAIL STA. 449+14.5 TO STA. 450+52 LT.

STAGE I

1. THE CONTRACTOR SHALL PLACE MAX WIDTH AND ROAD CLOSED AHEAD SIGNS AS PER PLANS AND STANDARD 701321 BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL.
2. CLOSE FINNEY ROAD PER STANDARD BLR 21.
3. ERECT TRAFFIC CONTROL FOR STAGE I.
4. REMOVE EXISTING STRUCTURE ℄ STA. 449+82 RT.
5. REMOVE PAVED SHOULDER STA. 445+00 TO STA. 448+25 & STA. 452+25 TO STA. 455+25 RT.
6. CONSTRUCT DOUBLE BARREL BOX CULVERT AND WINGWALLS ℄ STA. 449+91.50 RT.
7. CONSTRUCT HMA BASE COURSE WIDENING STA. 445+00 TO STA. 455+25 RT.
8. CONSTRUCT HMA TEMPORARY RAMP STA. 447+50 TO STA. 453+00 RT.

STAGE II

1. ERECT TRAFFIC CONTROL FOR STAGE II.
2. REMOVE TEMPORARY GUARDRAIL STA. 449+14.5 TO STA. 450+52 LT.
3. REMOVE EXISTING STRUCTURE ℄ STA. 449+82 LT.
4. CONSTRUCT DOUBLE BARREL BOX CULVERT AND WINGALLS ℄ STA. 449+91.50 LT.
5. CONSTRUCT HMA TEMPORARY RAMP STA. 447+50 TO STA. 453+00 LT.
6. INSTALL PIPE CULVERTS AND AGGREGATE FOR TEMPORARY ACCESS AT PRIVATE ENTRANCES.
7. REMOVE STAGE II TRAFFIC CONTROL.

STAGE III

1. CONSTRUCT BINDER COURSE, LEVELING BINDER AND SURFACE COURSE UNDER TRAFFIC WITH FLAGGERS.
2. CONSTRUCT ENTRANCES AND SIDE ROAD TO FINAL GRADE.

FINAL

1. REMOVE SHORT TERM PAVEMENT MARKINGS.
2. STRIPING, SEEDING AND MISCELLANEOUS CLEANUP.

GENERAL NOTES

1. THIS TRAFFIC CONTROL DETAIL SHALL BE USED IN CONJUNCTION WITH STANDARD 701321.
2. THE CONTRACTOR SHALL NOTIFY THE DISTRICT 6 TRAFFIC SECTION OF THE BUREAU OF OPERATIONS (PH 217-785-5836) AT LEAST 21 DAYS PRIOR TO IMPLEMENTING STAGE TRAFFIC CONTROL.
3. EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE STAGE TRAFFIC PATTERNS DURING ALL PHASES OF STAGE CONSTRUCTION SHALL BE REMOVED AS SPECIFIED IN SECTION 783 OF THE STANARD SPECIFICATIONS AND PAID FOR AS "PAVEMENT MARKING REMOVAL".
4. THE CONTRACTOR SHALL MAINTAIN FULL ACCESS TO ALL PRIVATE PROPERTIES DURING ALL PHASES OF CONSTRUCTION.
5. THE BARRIER UNIT AT EACH END OF THE INSTALLATION SHALL BE SECURED TO THE PAVEMENT OR SHOULDER USING ALL SIX ANCHORING PINS FOR F SHAPE.
6. SIGNING FOR STAGE II SAME AS STAGE I.

N

0 30 60
SCALE: 1" = 30'

SYMBOLS

- REMOVAL ITEMS
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TEMPORARY RUMBLE STRIP
- INDUCTION LOOP DETECTOR
- DOUBLE VERTICAL PANEL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR (FULLY REDIR. NARROW)
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS

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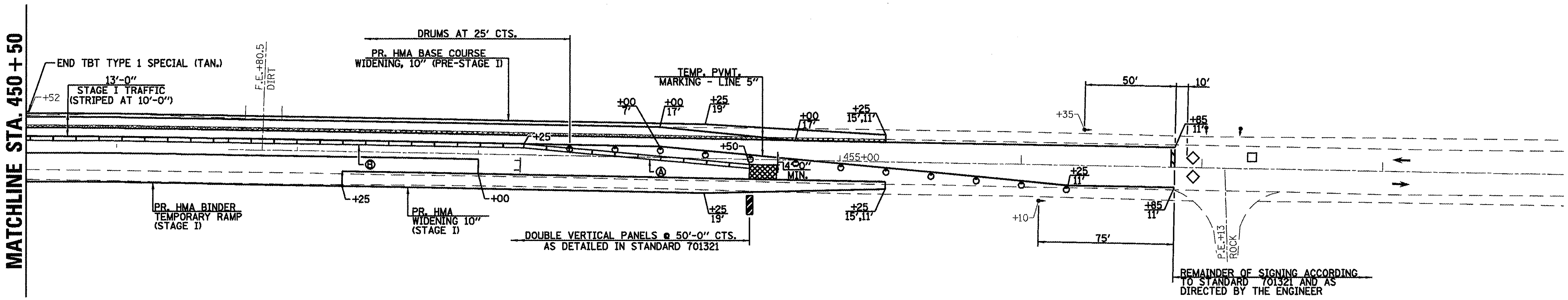
STAGE CONSTRUCTION & TRAFFIC CONTROL DETAILS

SCALE: NONE | SHEET NO. 4 OF 5 SHEETS | STA. | TO STA.

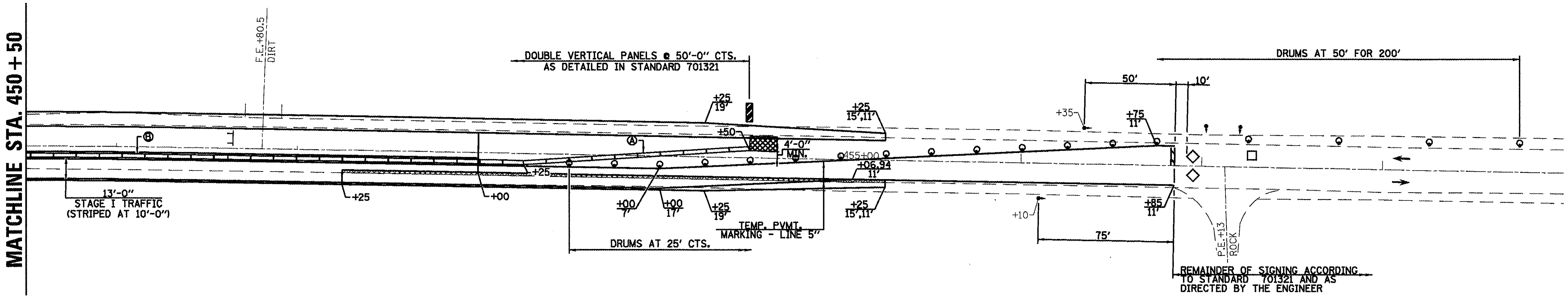
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-1),CR)	MACOUPIN	102	26
		CONTRACT NO. 72765		

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



STAGE I TRAFFIC

Ⓐ TEMPORARY CONCRETE BARRIER = 125'-0"
Ⓑ TEMPORARY CONCRETE BARRIER = 600'-0"



STAGE II TRAFFIC

TRAFFIC CONTROL SCHEDULE

LOCATION STATION TO STATION	TEMP. CONC. BARRIER (FOOT)	RELOCATE TEMP. CONC. BARRIER (FOOT)	IMPACT ATTENUATOR (EACH)	RELOCATE IMPACT ATTENUATOR (EACH)
STAGE I				
STA. 445+85 TO STA. 446+00			1	
STA. 446+00 TO STA. 454+50	850			
STA. 454+50 TO STA. 454+65			1	
STAGE II				
STA. 445+85 TO STA. 446+00				1
STA. 446+00 TO STA. 454+50		850		
STA. 454+50 TO STA. 454+65				1
TOTAL	850	850	2	2

SCHEDULE TEMPORARY PAVEMENT MARKING

LOCATION STATION TO STATION	TEMP. PAV'T. MARKING LINE - 5" (FOOT) WHITE	YELLOW
STAGE I		
STA. 443+65 TO STA. 456+85 LT	1320	
STA. 443+65 TO STA. 456+85 RT	1320	
STAGE II		
STA. 443+65 TO STA. 456+85 LT	1320	
STA. 443+65 TO STA. 456+85 RT	1320	
SHORT TERM PAVEMENT MARKING		
TOTAL	5280	

N

0 30 60
SCALE: 1" = 30'

SYMBOLS

- REMOVAL ITEMS
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TEMPORARY RUMBLE STRIP
- INDUCTION LOOP DETECTOR
- DOUBLE VERTICAL PANEL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR (FULLY REDIR. NARROW)
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS

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STAGE CONSTRUCTION & TRAFFIC CONTROL DETAILS

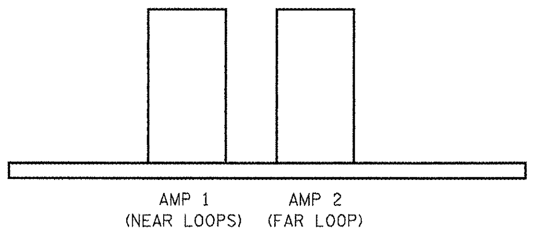
SCALE: NONE | SHEET NO. 5 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	27

CONTRACT NO. 72765

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

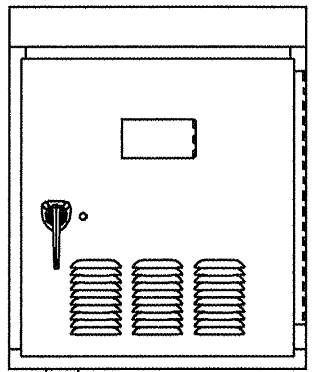
DETECTOR AMPLIFIER NOTES

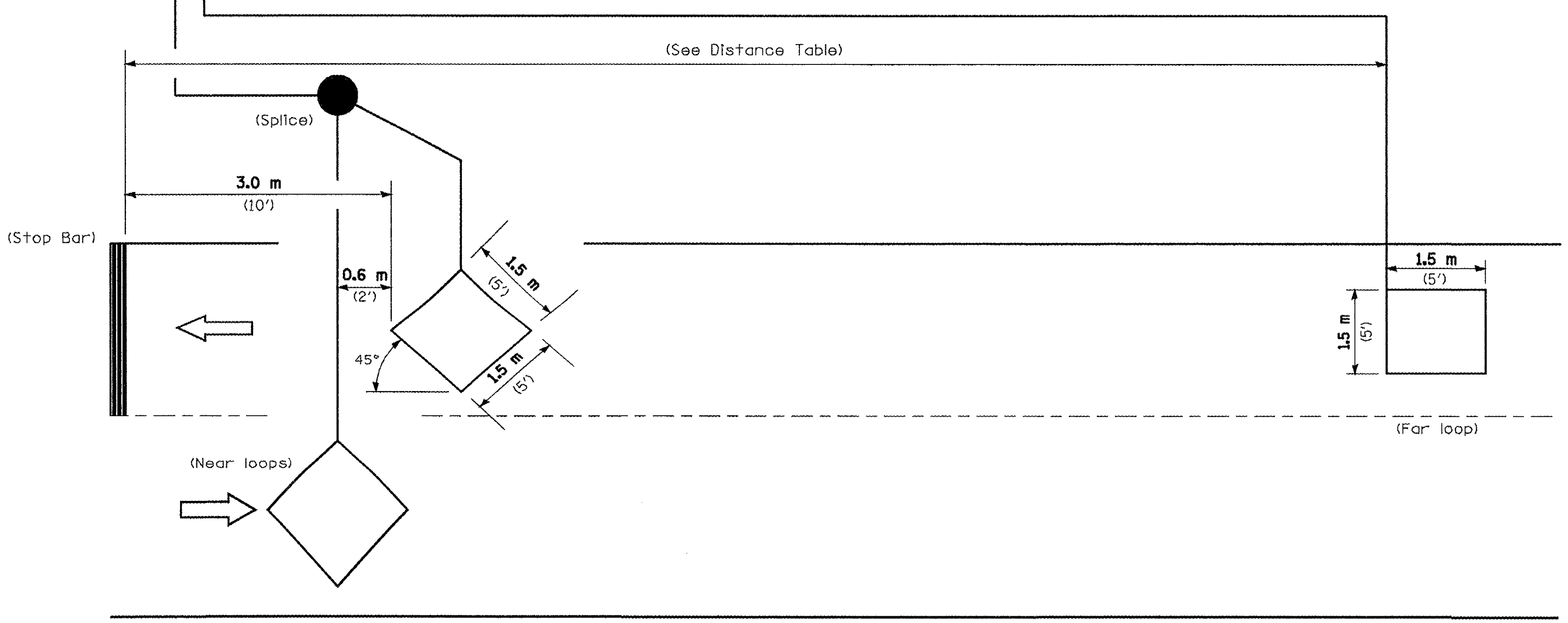


AMP 1: DELAY = 8 SECONDS
DELAY SHALL BE INHIBITED DURING GREEN

AMP 2: NO DELAY

FAR LOOP DISTANCE TABLE	
ADVISORY SPEED (MPH)	DISTANCE FROM STOP BAR (FT.)
30 OR LESS	220
35	260
40	300
45	330
50	370
55	400





NOTE: All loops centered in lane.

INDUCTION LOOP DETECTOR

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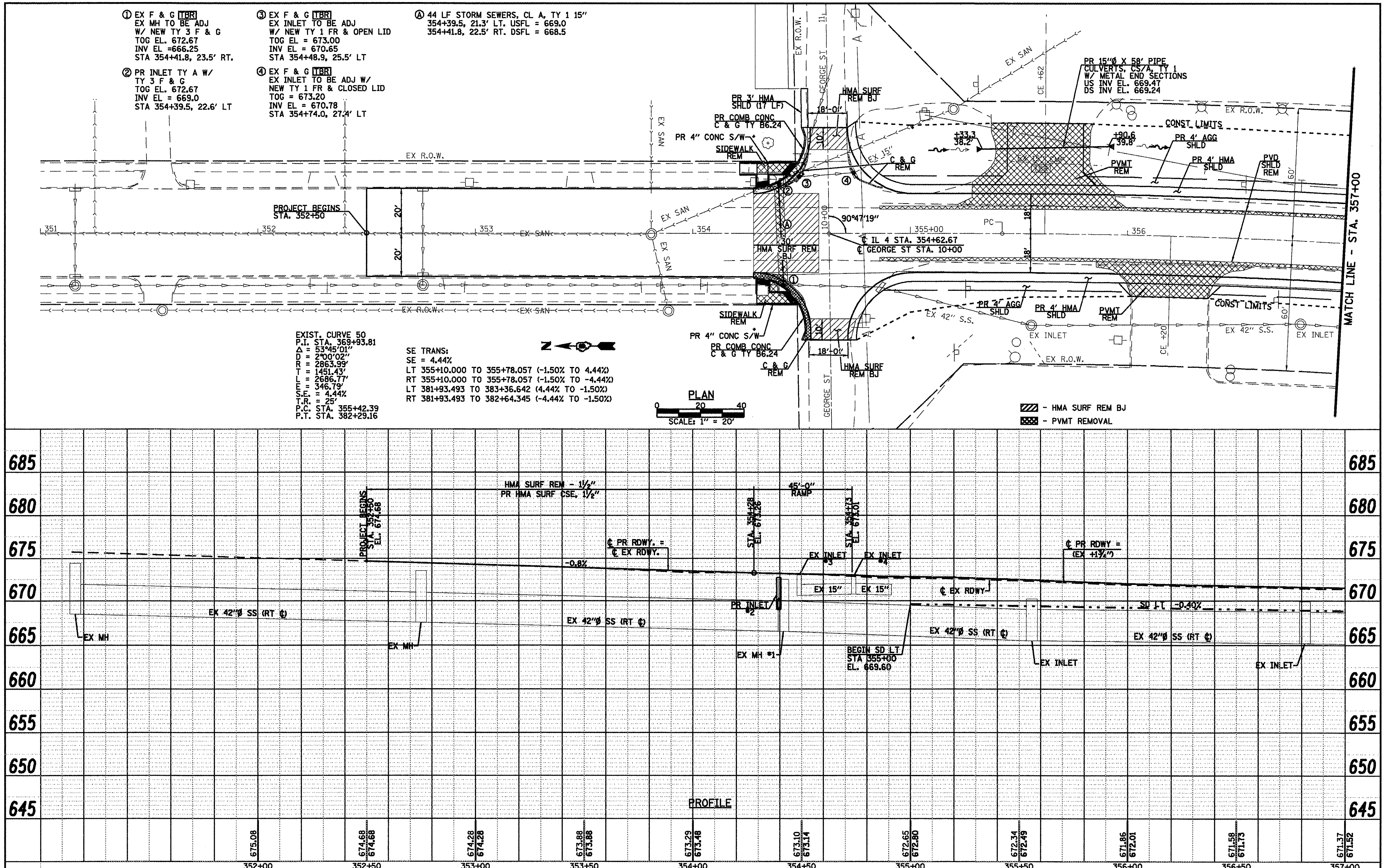
TEMPORARY BRIDGE TRAFFIC SIGNAL
LOOP PLACEMENT DETAIL SHEET

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	28
		CONTRACT NO. 72765		

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



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PLAN & PROFILE

SCALE: 1" = 20' | SHEET NO. 1 OF 4 SHEETS | STA. 351+00 TO STA. 357+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	29

CONTRACT NO. 72765

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

⑤ CONC COLLAR
INV EL. 664.43
STA. 360+00, 35.0' RT.

⑥ PR RD MH TY A, 7' DIA
W/ TY 8 FR
INV EL. 664.10
INV EL. 664.5 (12" W)
TOG EL. 669.5
STA. 361+50, 34.0' RT.

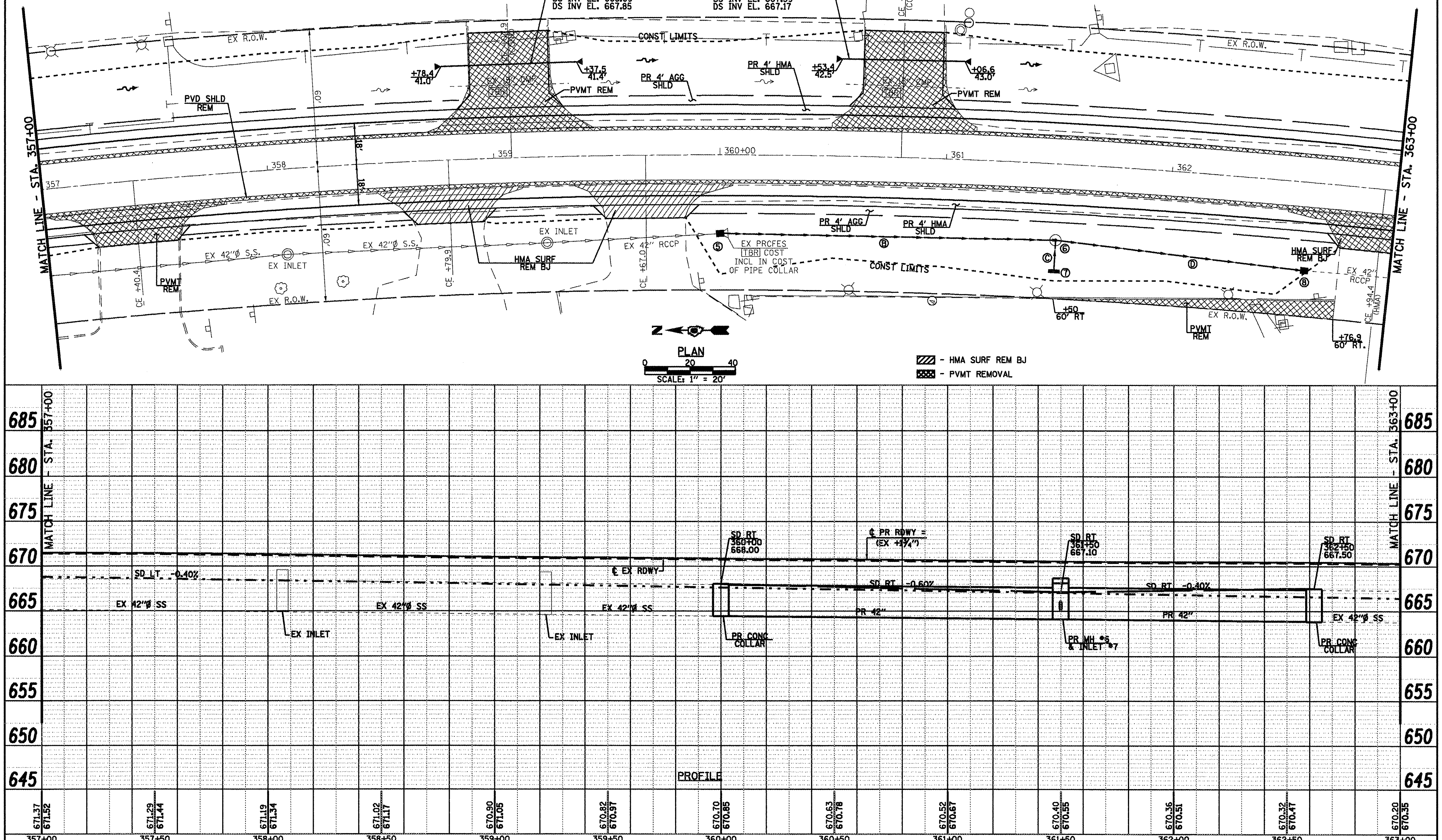
⑦ PR INLET TY A W/
MED INLET (604101)
INV EL. 665.70
TOG EL. 667.5
STA 361+50, 47.7' RT

⑧ CONC COLLAR
INV EL. 663.85
STA. 362+62, 39.5' RT.

Ⓑ 146 LF PIPE CULVERTS,
RCCP, TY 1, 42"
USFL EL. 664.43
DSFL EL. 664.20

Ⓒ 10 LF PIPE CULVERTS
RCCP, TY 1 12"
USFL EL. 665.68
DSFL EL. 664.5

Ⓓ 108 LF PIPE CULVERTS,
RCCP, TY 1, 42"
USFL EL. 664.10
DSFL EL. 663.95



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No. 184-001907

PLAN & PROFILE

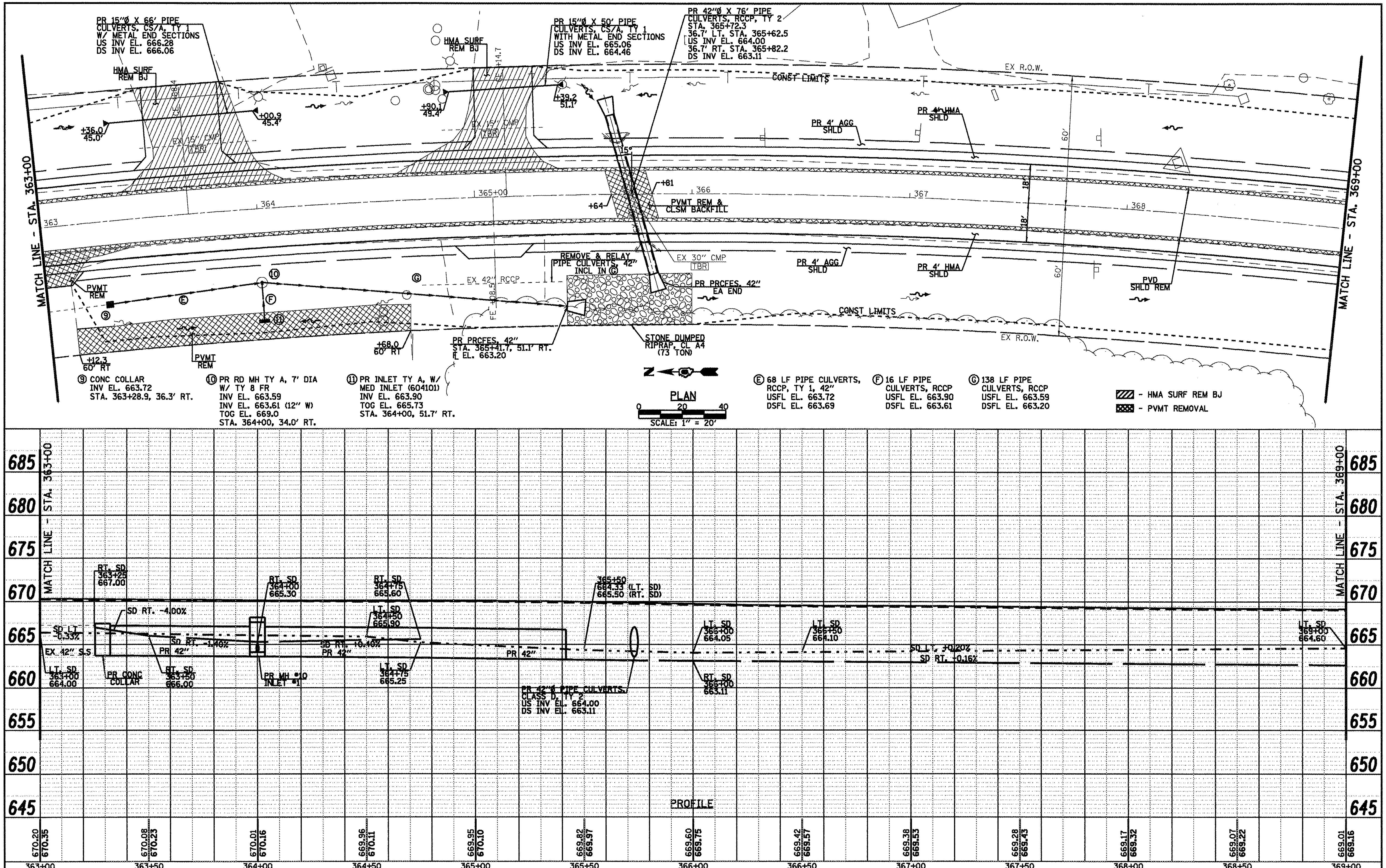
SCALE: 1" = 20' | SHEET NO. 2 OF 4 SHEETS | STA. 357+00 TO STA. 363+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	30
		CONTRACT NO. 72765		

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

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, R.T. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO. | BY | DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATIONS CHKD, NOTE BOOK, NO. | BY | DATE



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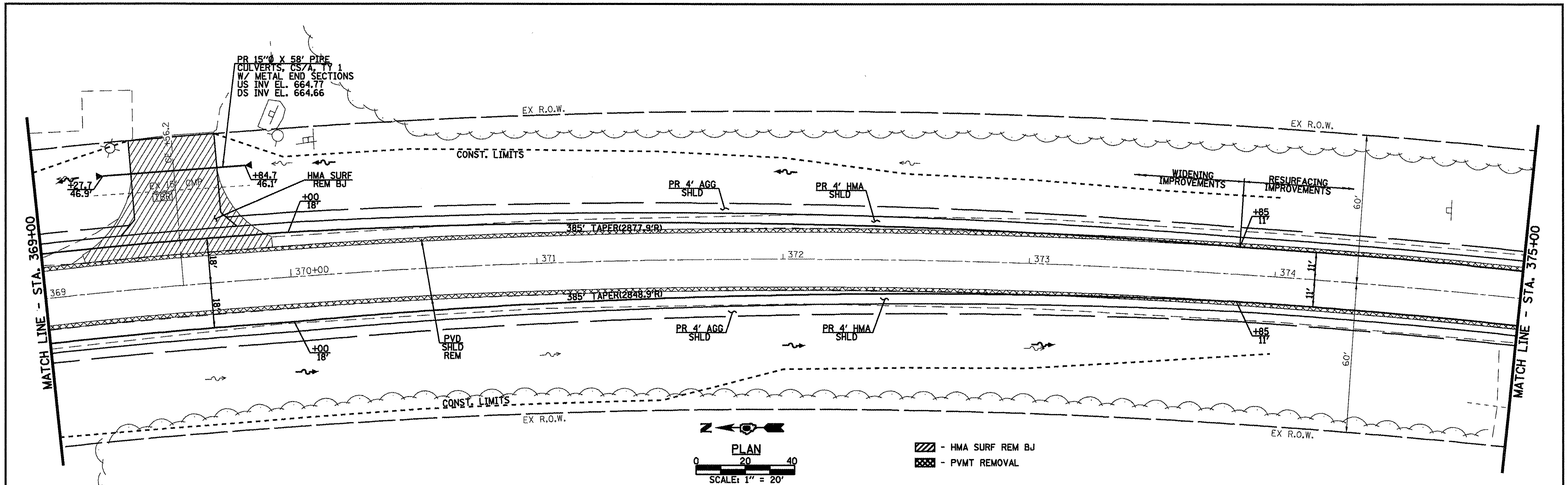
PLAN & PROFILE

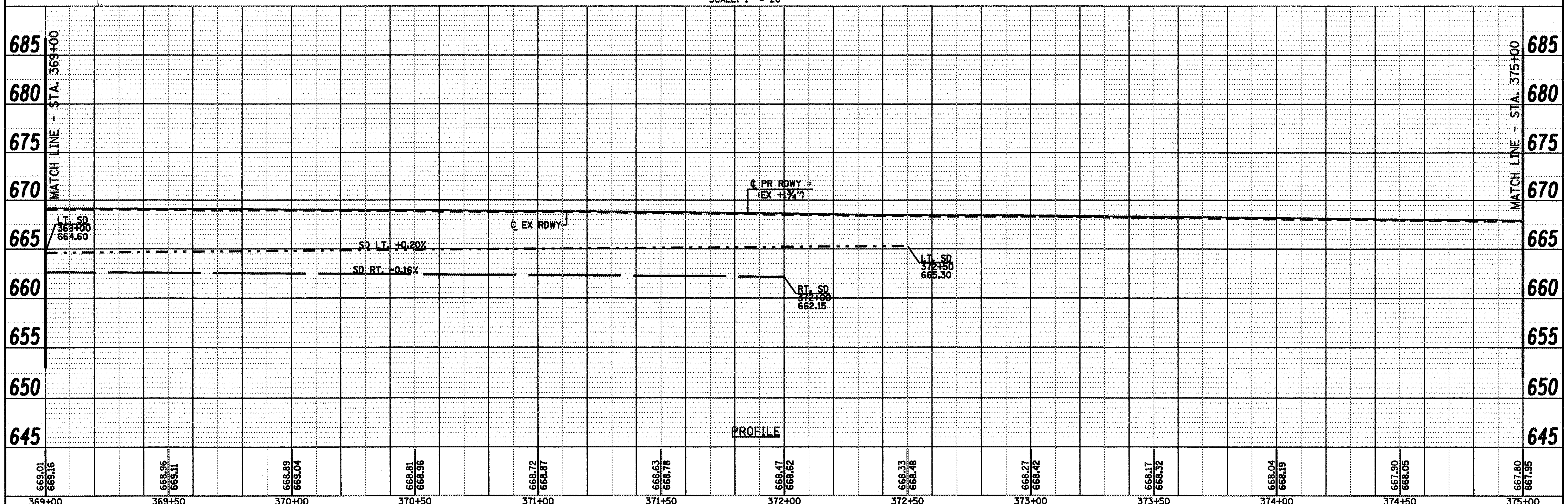
SCALE: 1" = 20' | SHEET NO. 3 OF 4 SHEETS | STA. 363+00 TO STA. 369+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	31
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

PLAN NOTE BOOK NO. SURVEYED PLOTTED ALIGNMENT CHECKED R.O.W. CHECKED CADD FILE NAME BY DATE

PROFILE NOTE BOOK NO. SURVEYED PLOTTED GRADES CHECKED B.M. NOTED STRUCTURE NOTATIONS CHKD BY DATE





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PLAN & PROFILE

SCALE: 1" = 20' | SHEET NO. 4 OF 4 SHEETS | STA. 369+00 TO STA. 375+00

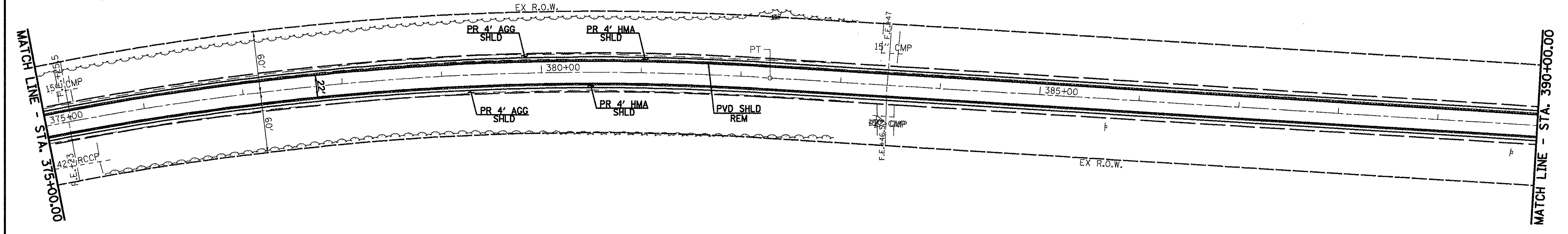
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	32

CONTRACT NO. 72765

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

EXIST. CURVE 50
P.I. STA. 369+93.81
Δ = 53°45'01"
D = 2°00'02"
R = 2863.99'
T = 1451.43'
L = 2686.77'
E = 346.79'
S.E. = 4.44%
T.R. = 25'
P.C. STA. 355+42.39
P.T. STA. 382+29.16

SE TRANS:
SE = 4.44%
LT 355+10.000 TO 355+78.057 (-1.50% TO 4.44%)
RT 355+10.000 TO 355+78.057 (-1.50% TO -4.44%)
LT 381+93.493 TO 383+36.642 (4.44% TO -1.50%)
RT 381+93.493 TO 382+64.345 (-4.44% TO -1.50%)



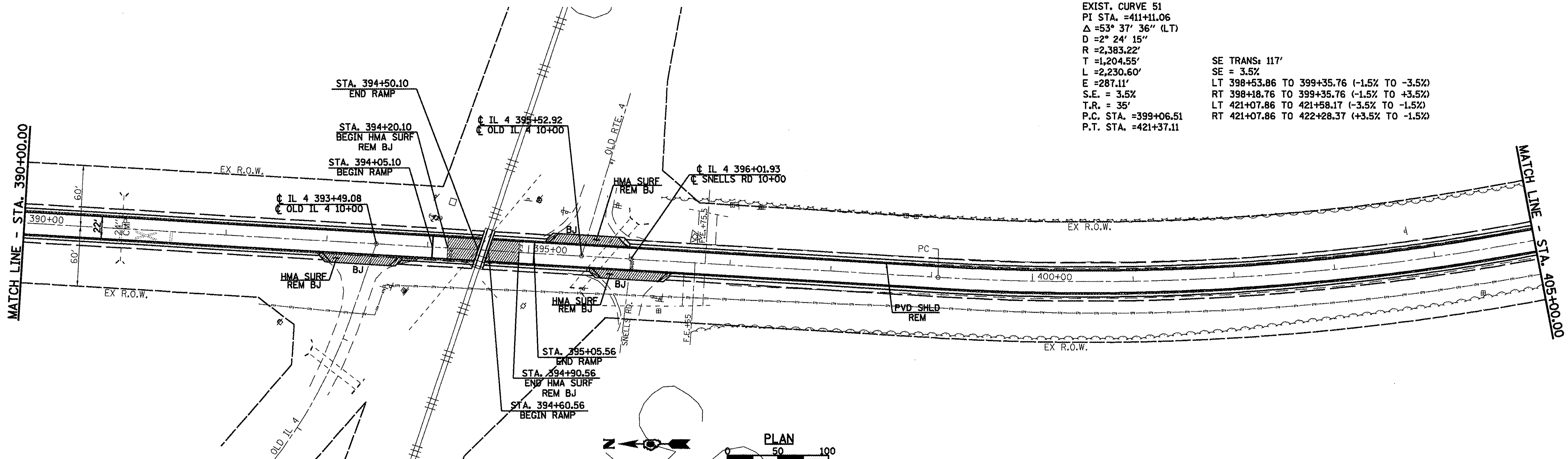
PLAN

0 50 100
SCALE: 1" = 50'

- HMA SURF REM BJ
- PVMT REMOVAL

EXIST. CURVE 51
PI STA. =411+11.06
Δ =53° 37' 36" (LT)
D =2° 24' 15"
R =2,383.22'
T =1,204.55'
L =2,230.60'
E =287.11'
S.E. = 3.5%
T.R. = 35'
P.C. STA. =399+06.51
P.T. STA. =421+37.11

SE TRANS: 117'
SE = 3.5%
LT 398+53.86 TO 399+35.76 (-1.5% TO -3.5%)
RT 398+18.76 TO 399+35.76 (-1.5% TO +3.5%)
LT 421+07.86 TO 421+58.17 (-3.5% TO -1.5%)
RT 421+07.86 TO 422+28.37 (+3.5% TO -1.5%)



PLAN

0 50 100
SCALE: 1" = 50'

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ROADWAY PLAN

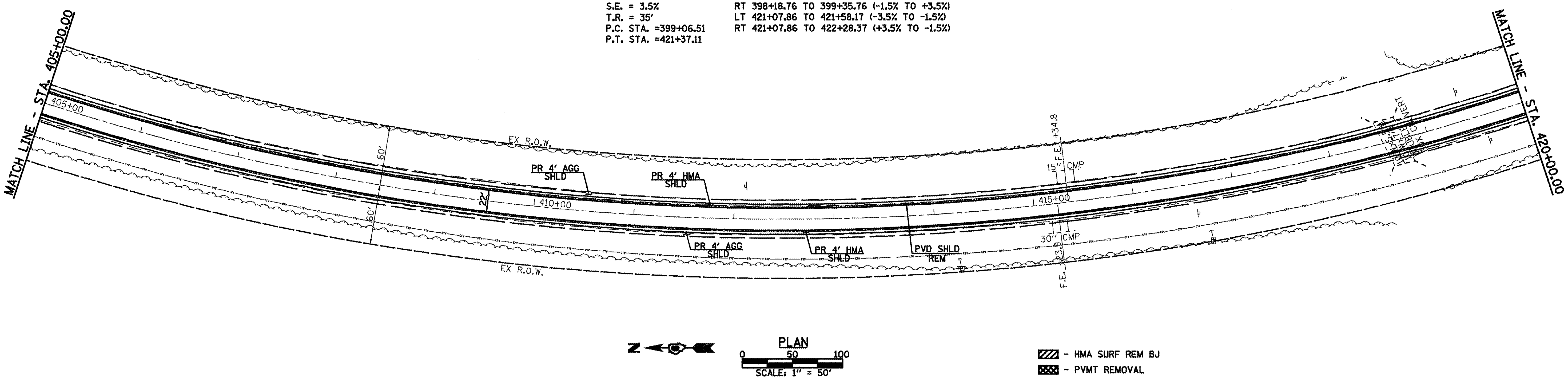
SCALE: 1" = 50' | SHEET NO. 1 OF 2 SHEETS | STA. 375+00.00 TO STA. 405+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	33
		CONTRACT NO. 72765		

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

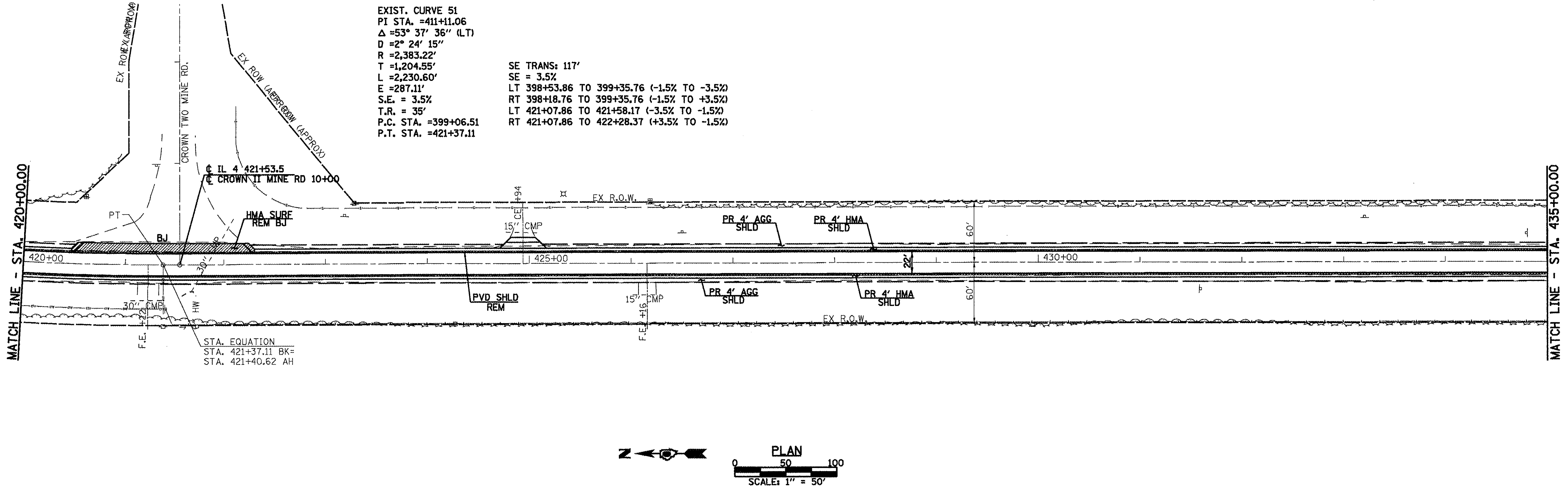
EXIST. CURVE 51
PI STA. =411+11.06
Δ =53° 37' 36" (LT)
D =2° 24' 15"
R =2,383.22'
T =1,204.55'
L =2,230.60'
E =287.11'
S.E. = 3.5%
T.R. = 35'
P.C. STA. =399+06.51
P.T. STA. =421+37.11

SE TRANS: 117'
SE = 3.5%
LT 398+53.86 TO 399+35.76 (-1.5% TO -3.5%)
RT 398+18.76 TO 399+35.76 (-1.5% TO +3.5%)
LT 421+07.86 TO 421+58.17 (-3.5% TO -1.5%)
RT 421+07.86 TO 422+28.37 (+3.5% TO -1.5%)



EXIST. CURVE 51
PI STA. =411+11.06
Δ =53° 37' 36" (LT)
D =2° 24' 15"
R =2,383.22'
T =1,204.55'
L =2,230.60'
E =287.11'
S.E. = 3.5%
T.R. = 35'
P.C. STA. =399+06.51
P.T. STA. =421+37.11

SE TRANS: 117'
SE = 3.5%
LT 398+53.86 TO 399+35.76 (-1.5% TO -3.5%)
RT 398+18.76 TO 399+35.76 (-1.5% TO +3.5%)
LT 421+07.86 TO 421+58.17 (-3.5% TO -1.5%)
RT 421+07.86 TO 422+28.37 (+3.5% TO -1.5%)



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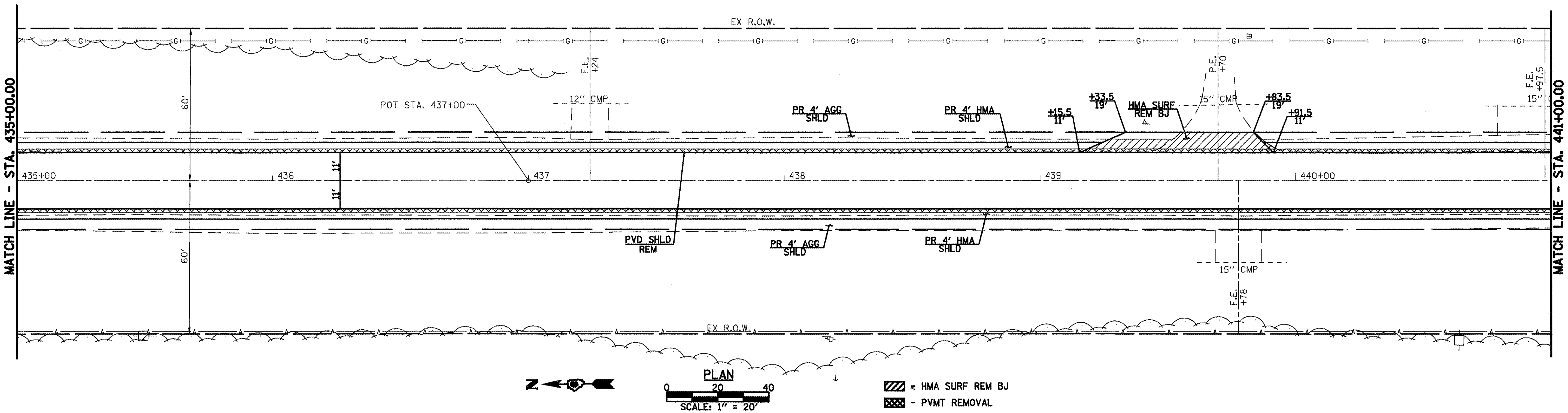
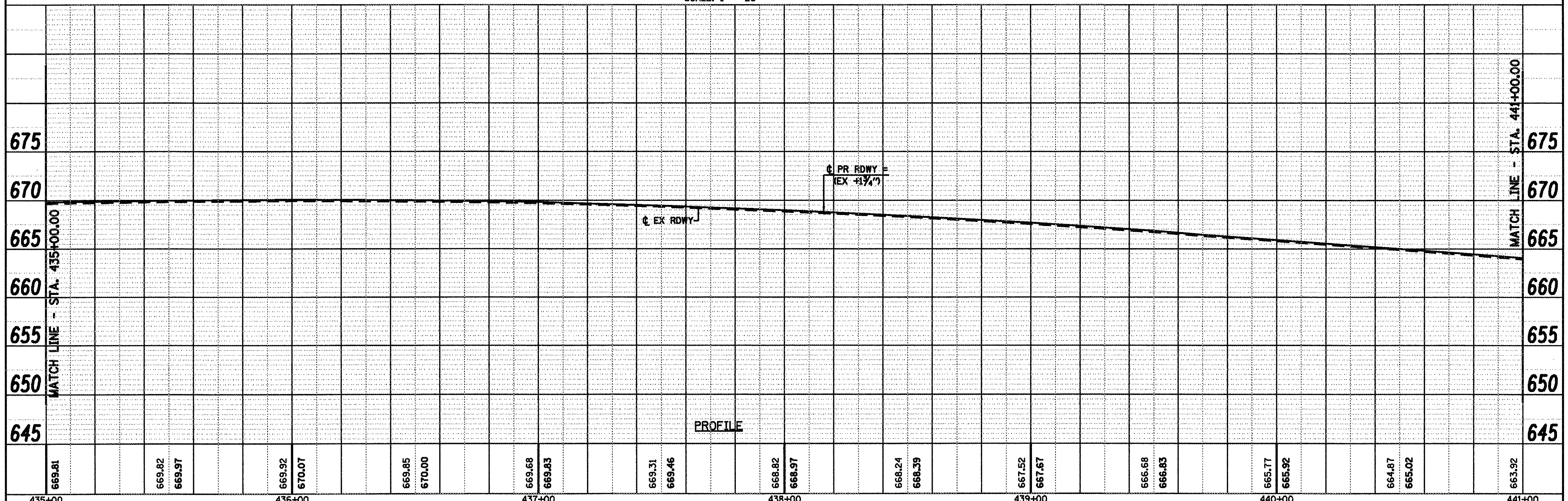
	PLOT DATE = Aug-17-2009 04:05:54PM	CHECKED -	REVISED -		SHEET NO. 2 OF 2 SHEETS
		DATE -	REVISED -		STA. 405+00.00 TO STA. 435+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	34
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





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	PLOT DATE = Aug-17-2009 04:05:57PM	CHECKED -	REVISED -

Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL. Design Firm
No. 184-001907

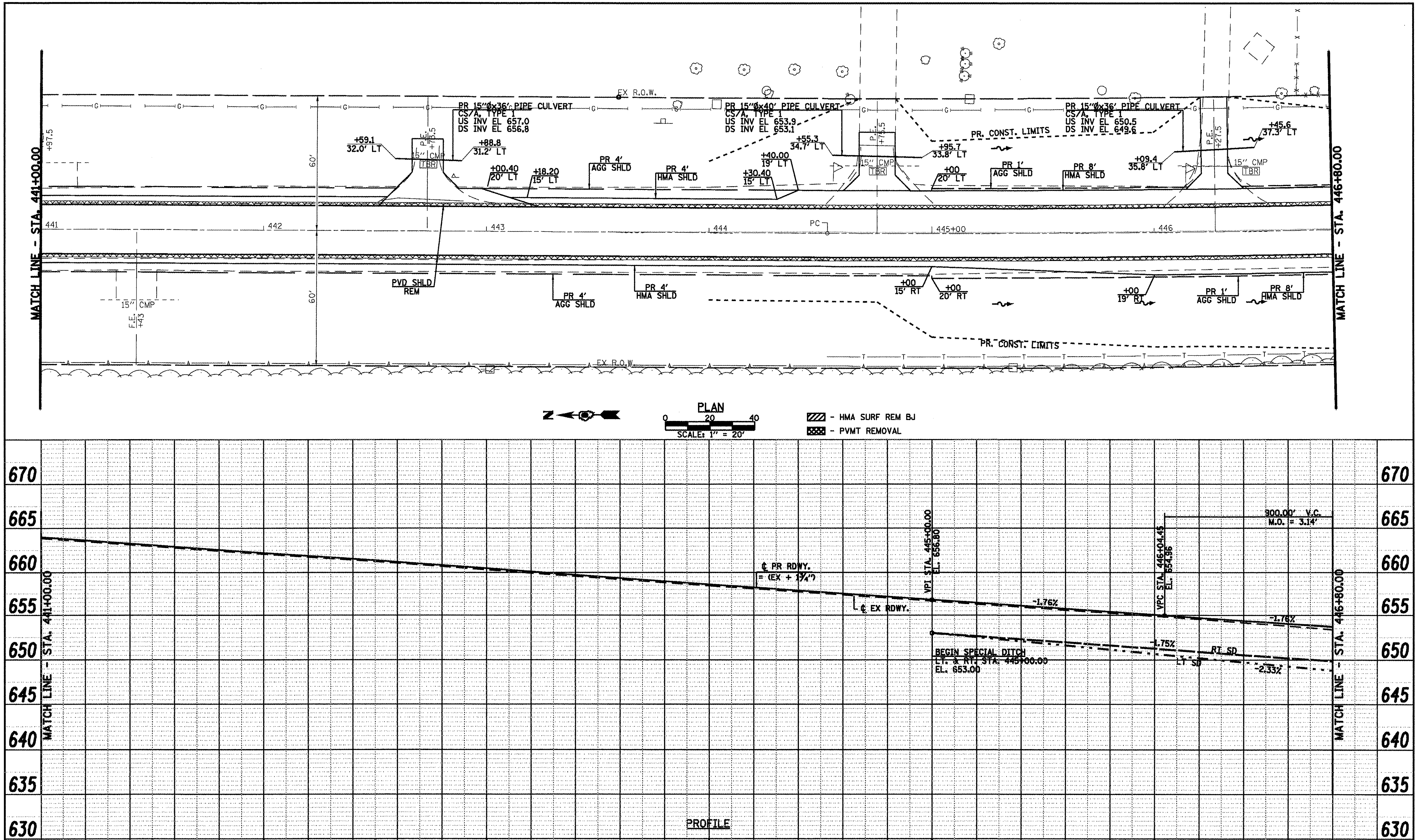
PLAN & PROFILE

SCALE: 1" = 20' | SHEET NO. 1 OF 4 SHEETS | STA. 435+00.00 TO STA. 441+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11)	MACOUPIN	102	35

CONTRACT NO. 72765

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



663.04	662.16	661.33	660.41	659.47	658.45	657.55	656.65	655.77	654.89	653.96
663.19	662.31	661.48	660.56	659.62	658.60	657.70	656.80	655.92	655.04	654.19
	442+00		443+00		444+00	444+50	445+00	445+50	446+00	446+50

FILE NAME = S:\PROJ ENGR 1 (Negangard)\Dust Squad\FAP 662 (IL 4) Henderson pdfs\CADD Sheets\D6727...dgn	USER NAME = madoniavj	DESIGNED -	REVISED -
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No. 184-001907

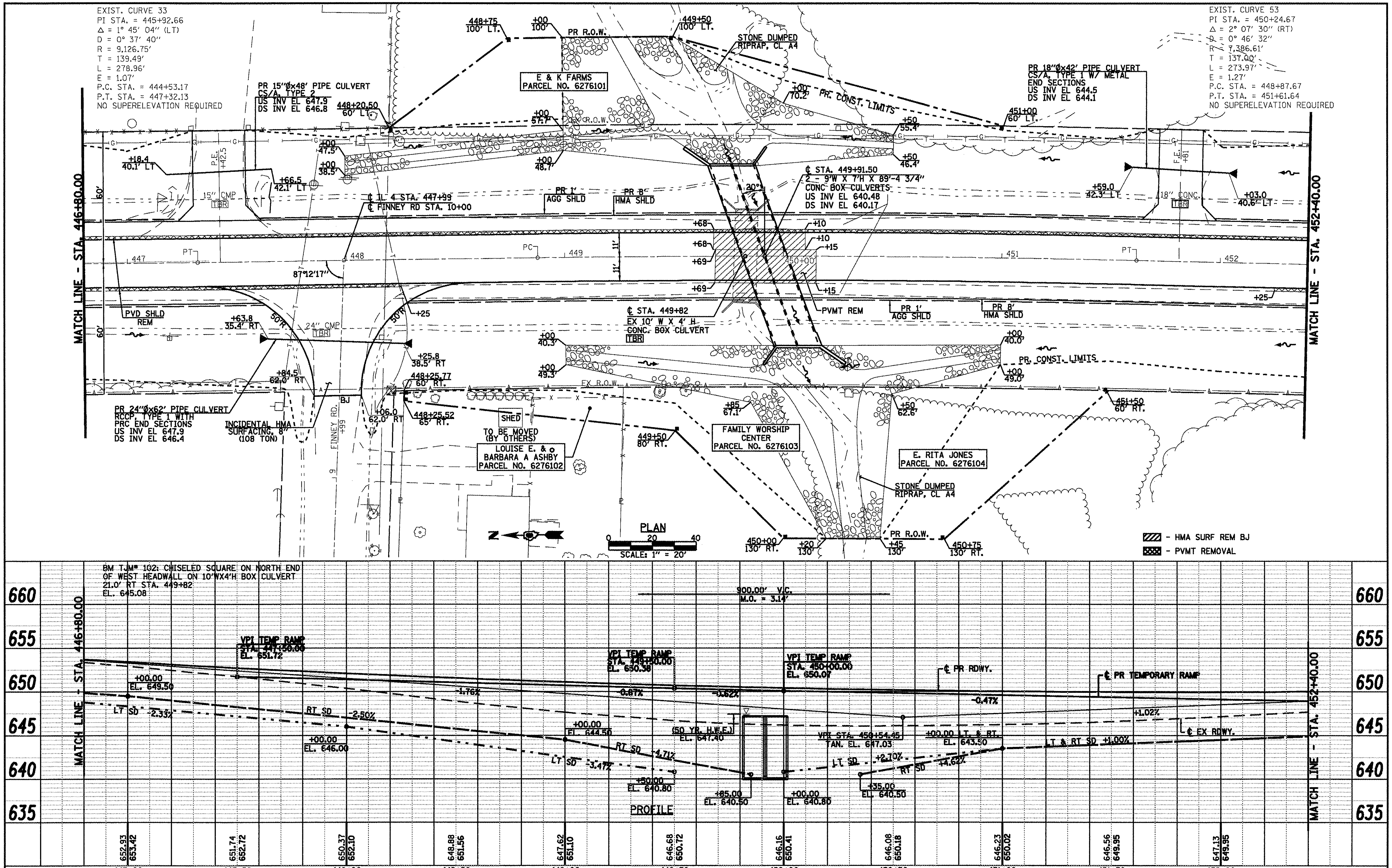
PLAN & PROFILE

SCALE: 1" = 20' | SHEET NO. 2 OF 4 SHEETS | STA. 441+00.00 TO STA. 446+80.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	36

CONTRACT NO. 72765

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



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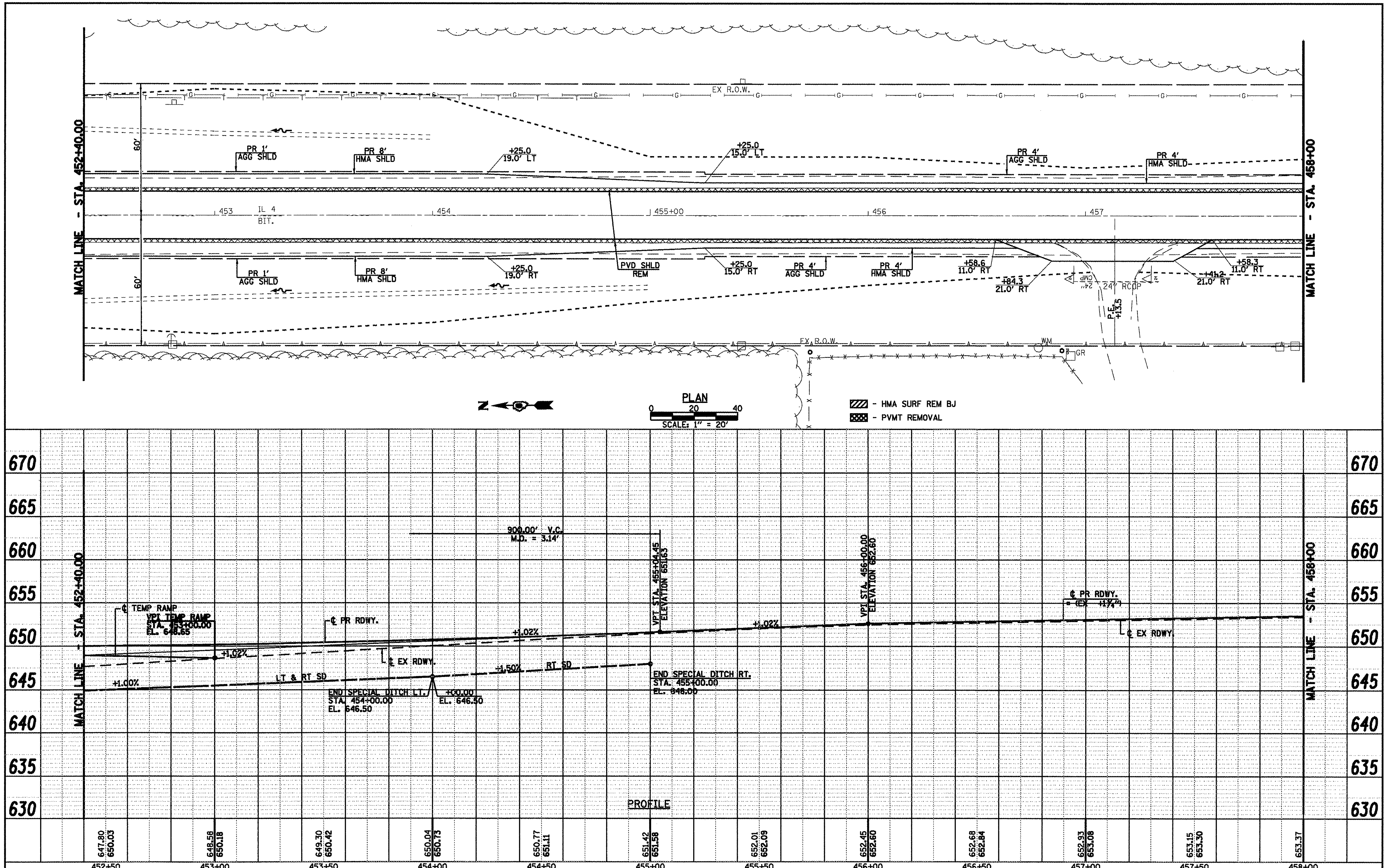
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -	Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL. Design Firm No. 184-001907	SCALE: 1" = 20' SHEET NO. 3 OF 4 SHEETS STA. 446+80.00 TO STA. 452+40.00
	PLOT DATE = Aug-17-2009 04:06:02PM	DRAWN -	REVISED -		
		CHECKED -	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	37
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



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	PLOT DATE = Aug-17-2009 04:06:05PM	CHECKED -	REVISED -	

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No. 184-001907

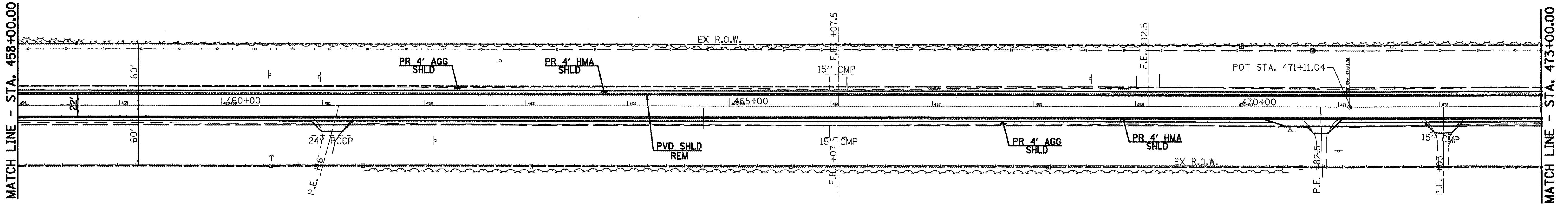
PLAN & PROFILE

SCALE: 1" = 20'	SHEET NO. 4 OF 4 SHEETS	STA. 452+30.00 TO STA. 457+80.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	38
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

PLAN		
NOTE BOOK NO.	SURVEYED PLOTTED ALIGNMENT CHECKED RT. OF WAY CHECKED CADD FILE NAME	BY DATE

PROFILE		
NOTE BOOK NO.	SURVEYED PLOTTED GRADES CHECKED B.M. NOTED STRUCTURE NOTATIONS CHECKED	BY DATE

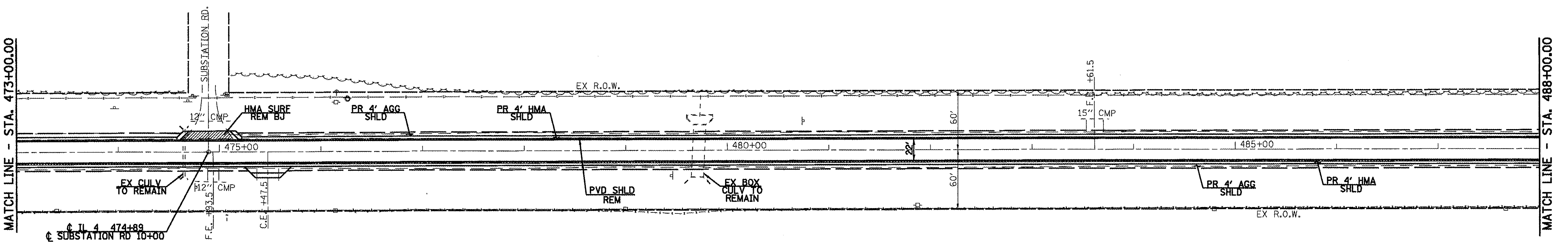


PLAN

0 50 100

SCALE: 1" = 50'

- HMA SURF REM BJ
- PVMT REMOVAL



PLAN

0 50 100

SCALE: 1" = 50'

FILE NAME = S:\PROJ ENGR 1 (Negangard)\Dust Squad\FAP 662 (IL 4) Henderson pdfs\CADD Sheets\06727	USER NAME = madoniavj	DESIGNED -	REVISED -
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	PLOT DATE = Aug-17-2009 04:06:07PM	DATE -	REVISED -

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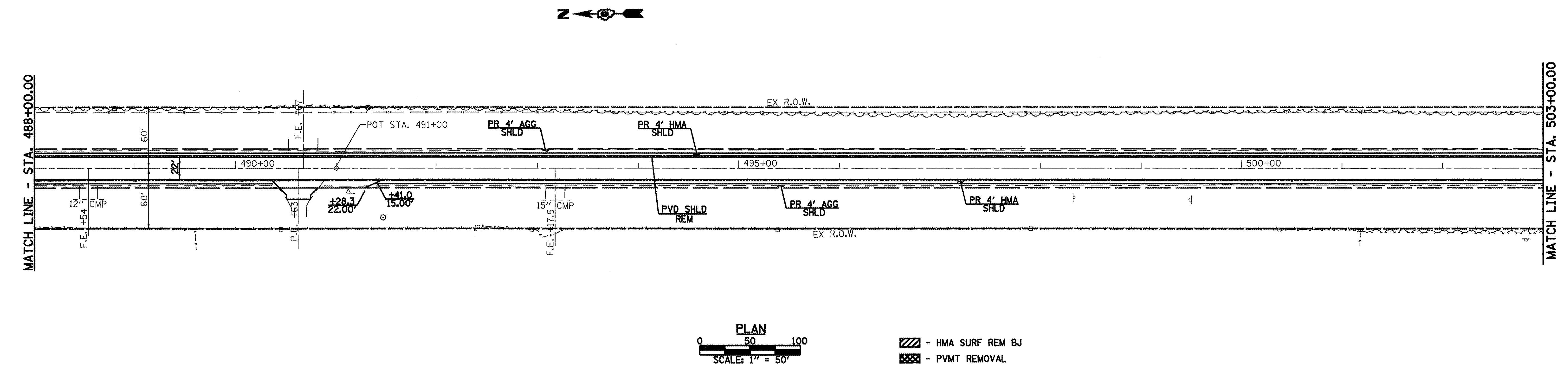
No. 184-001907

ROADWAY PLAN

SCALE: 1" = 50' | SHEET NO. 1 OF 6 SHEETS | STA. 458+00.00 TO STA. 488+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	39
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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	PLOT SCALE = 100.0000 '/ IN.	CHECKED -	REVISED -
	PLOT DATE = Aug-17-2009 04:06:10PM	DATE -	REVISED -

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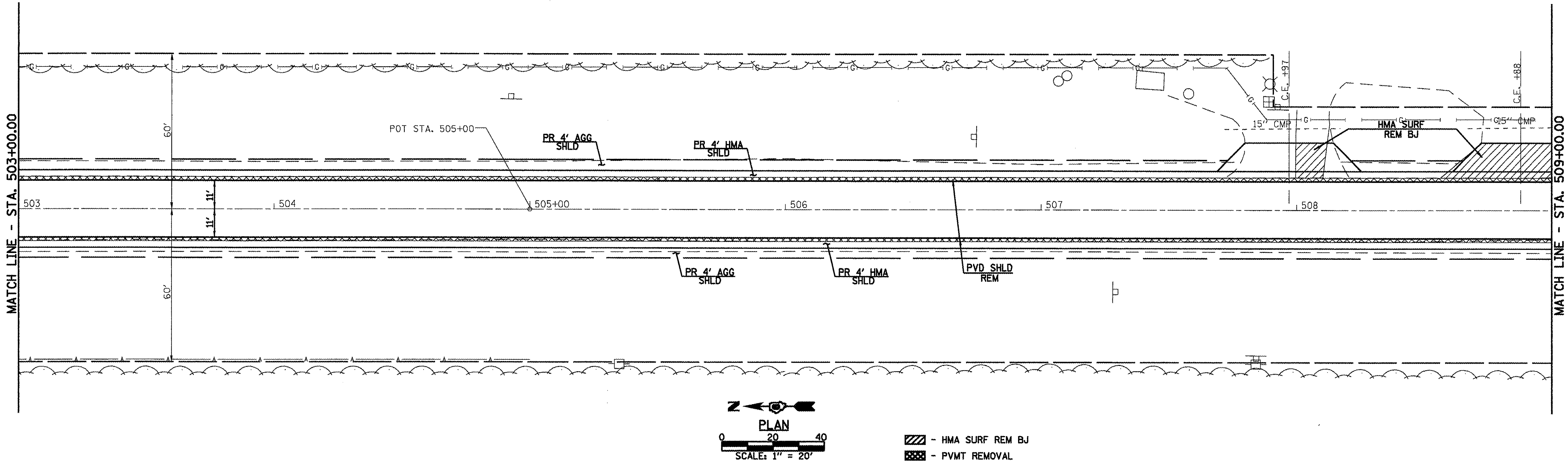
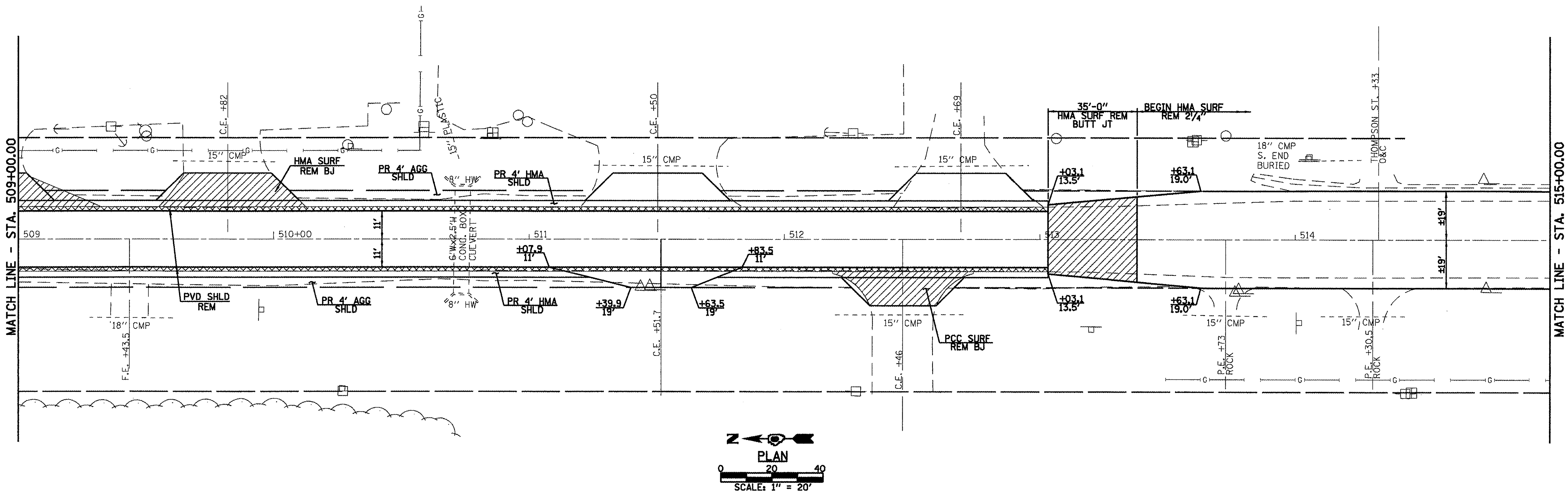
No. 184-001907

ROADWAY PLAN

SCALE: 1" = 50' | SHEET NO. 2 OF 6 SHEETS | STA. 488+00.00 TO STA. 503+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	40
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





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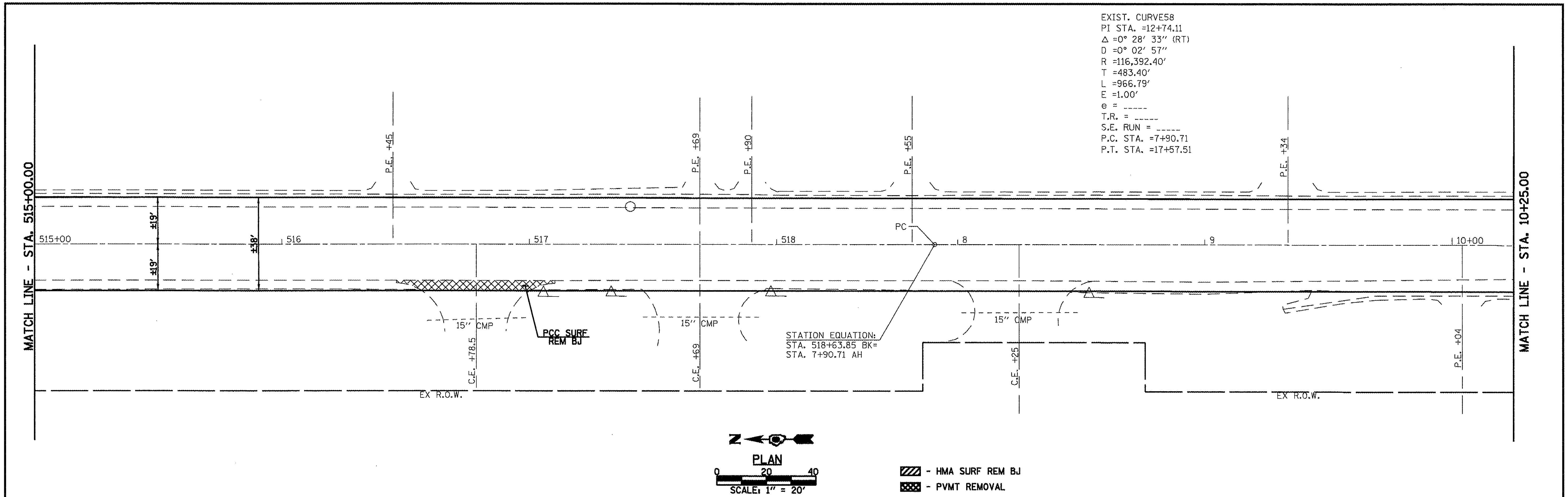
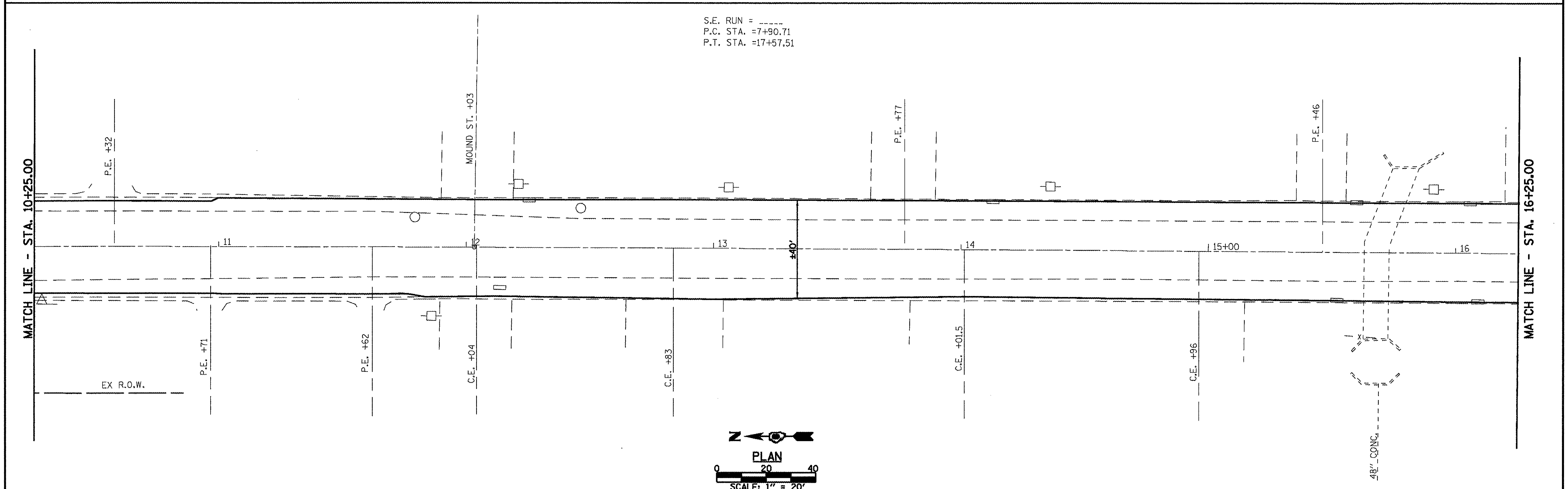
	PLOT SCALE = 40.0000 '/ IN.	DRAWN -	REVISED -		SCALE: 1" = 20'	COUNTY MACOUPIN	TOTAL SHEETS 102
	PLOT DATE = Aug-17-2009 04:06:12PM	CHECKED -	REVISED -		SHEET NO. 3 OF 6 SHEETS	SHEET NO. 41	CONTRACT NO. 72765
		DATE -	REVISED -		STA. 503+00.00 TO STA. 515+00.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT





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		DRAWN	REVISED -		
	PLOT SCALE = 40.0000 '/ IN.	CHECKED -	REVISED -		
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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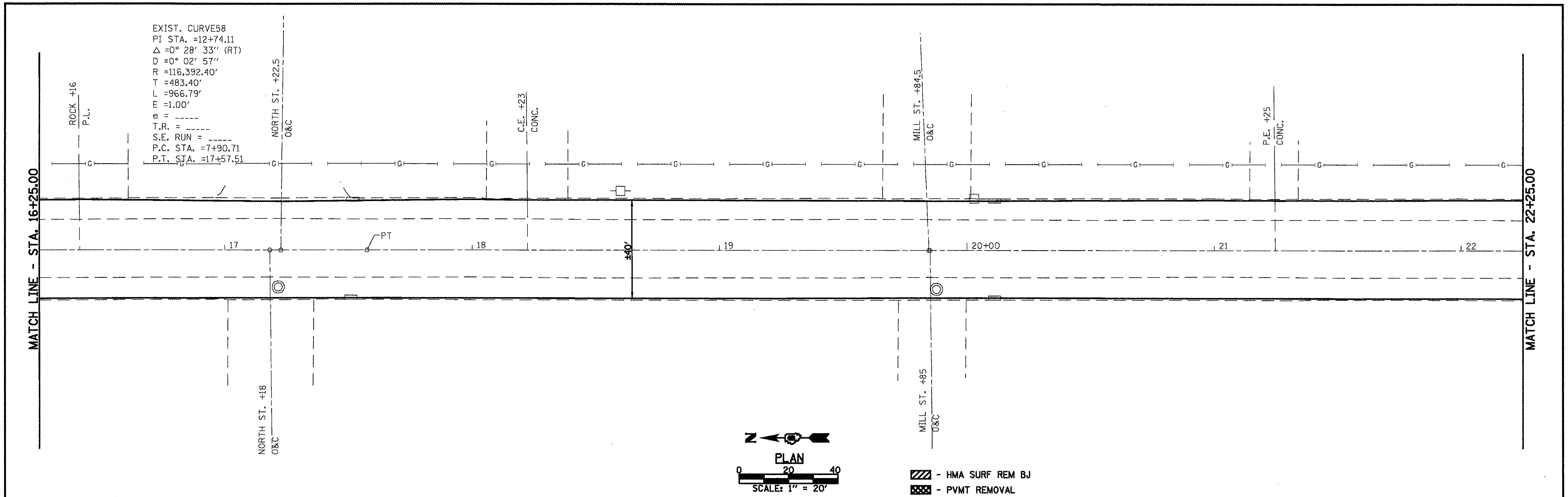
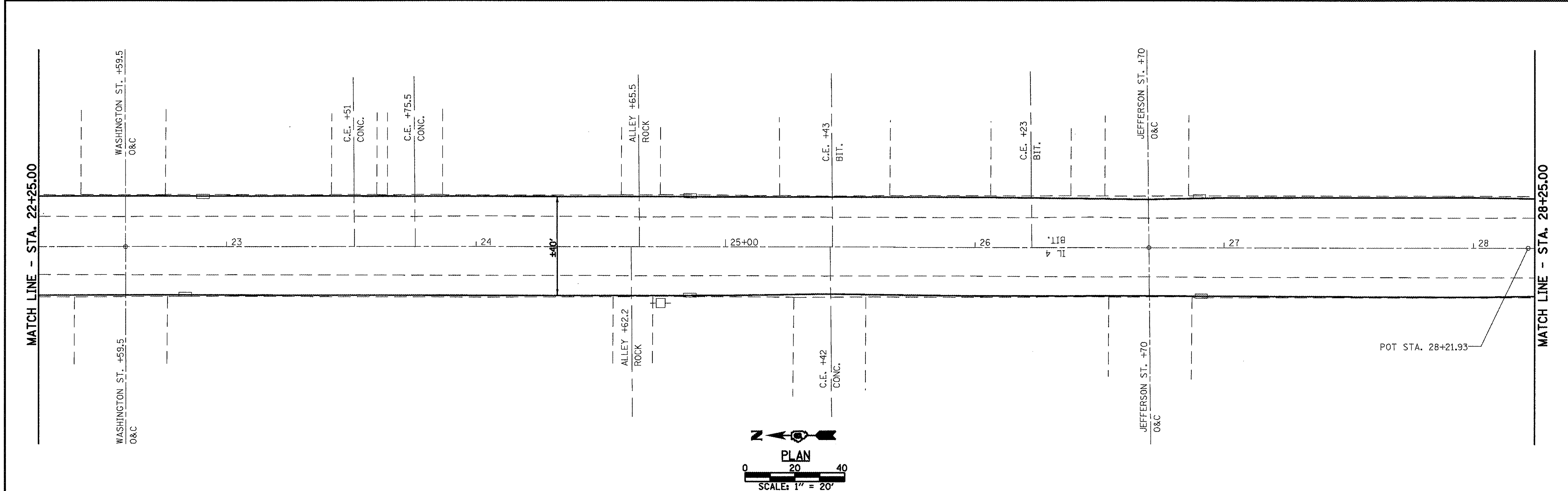
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





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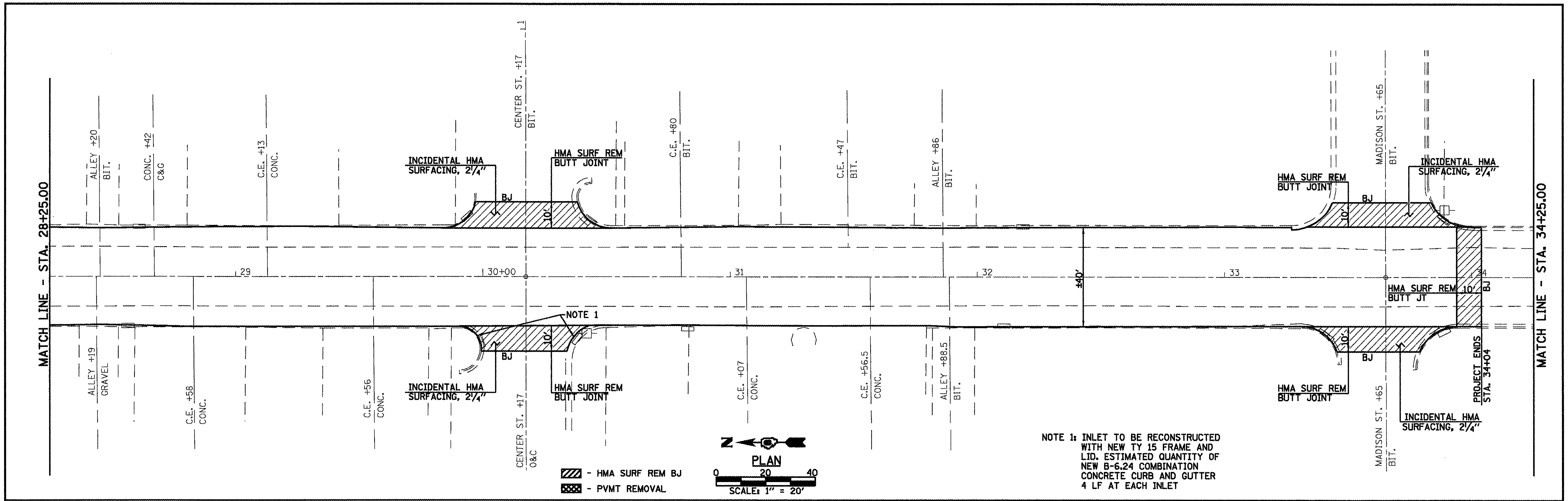
No. 184-001907

ROADWAY PLAN

SCALE: 1″ = 20′ | SHEET NO. 5 OF 6 SHEETS | STA. 16+25.00 TO STA. 28+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	43
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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PLOT DATE = Aug-17-2009 04:06:20PM

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

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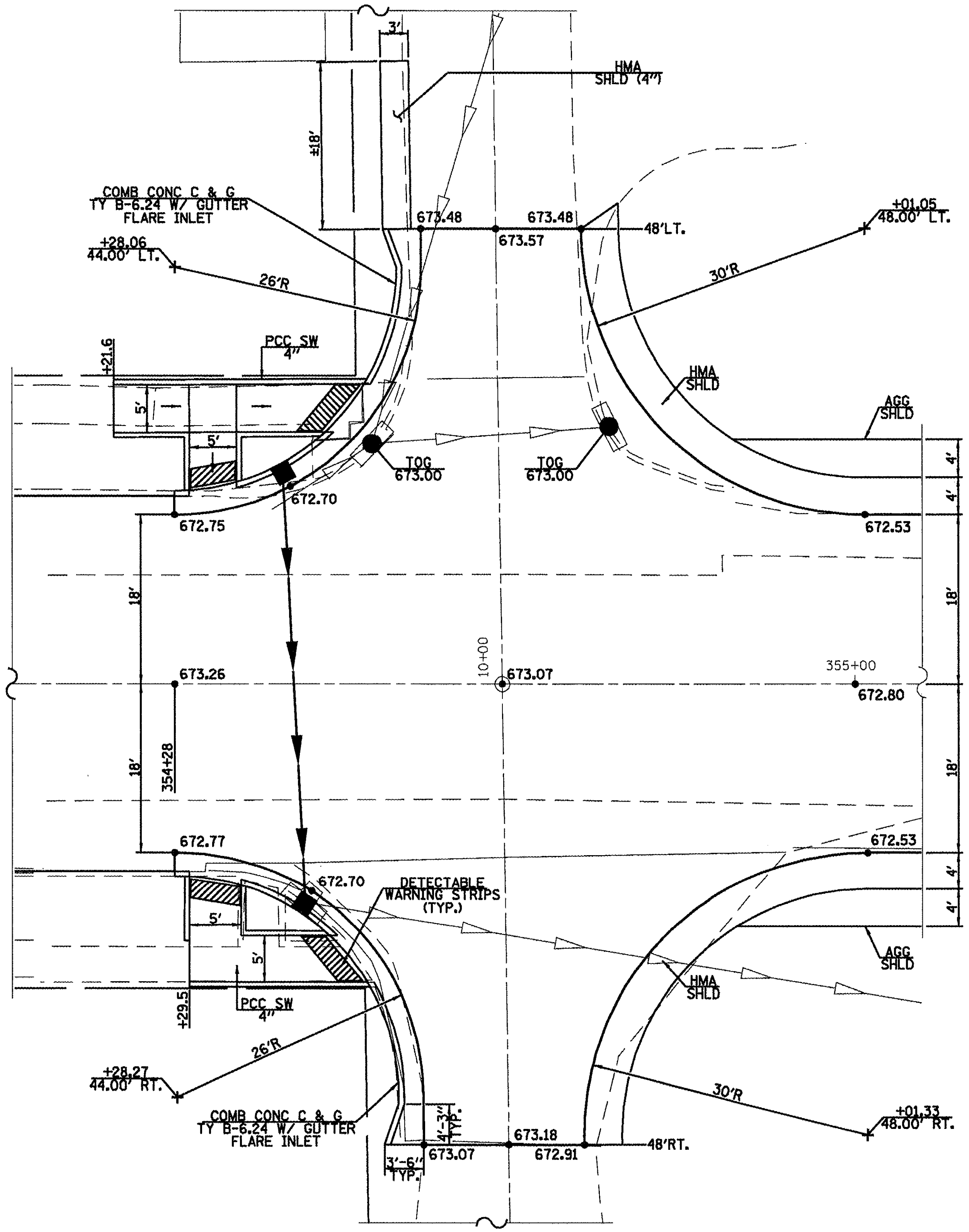
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL. Design Firm
No. 184-001907

ROADWAY PLAN

SCALE: 1" = 20' | SHEET NO. 6 OF 6 SHEETS | STA. 28+25.00 TO STA. 34+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	44
		CONTRACT NO. 72765		

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



INTERSECTION DETAIL

(GEORGE ST. & IL. 4)

NOTES: PCC SIDEWALK TO BE CONSTRUCTED WITH RAMPS AND DETECTABLE WARNNG STRIPS PER IDOT STD. 424001.

GUTTER FLARE INLETS INCLUDED IN THE COST OF COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.24.

FILE NAME = S:\PROJ ENGR 1 (Negangard)\Dust Squad\FAP 662 (IL 4) Henderson pdfs\CADD Sheets\D6727 ...int-detail.dgn	USER NAME = madoniavj	DESIGNED -	REVISED -
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Civil and Structural Engineers Springfield, IL.
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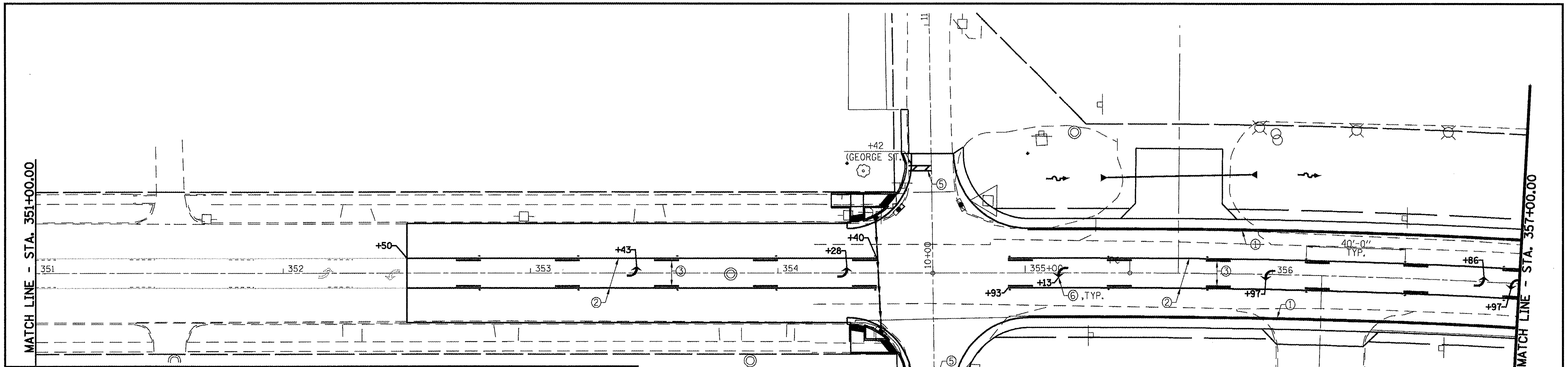
No. 184-001907

INTERSECTION DETAILS
(GEORGE STREET & IL 4)

SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	45
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

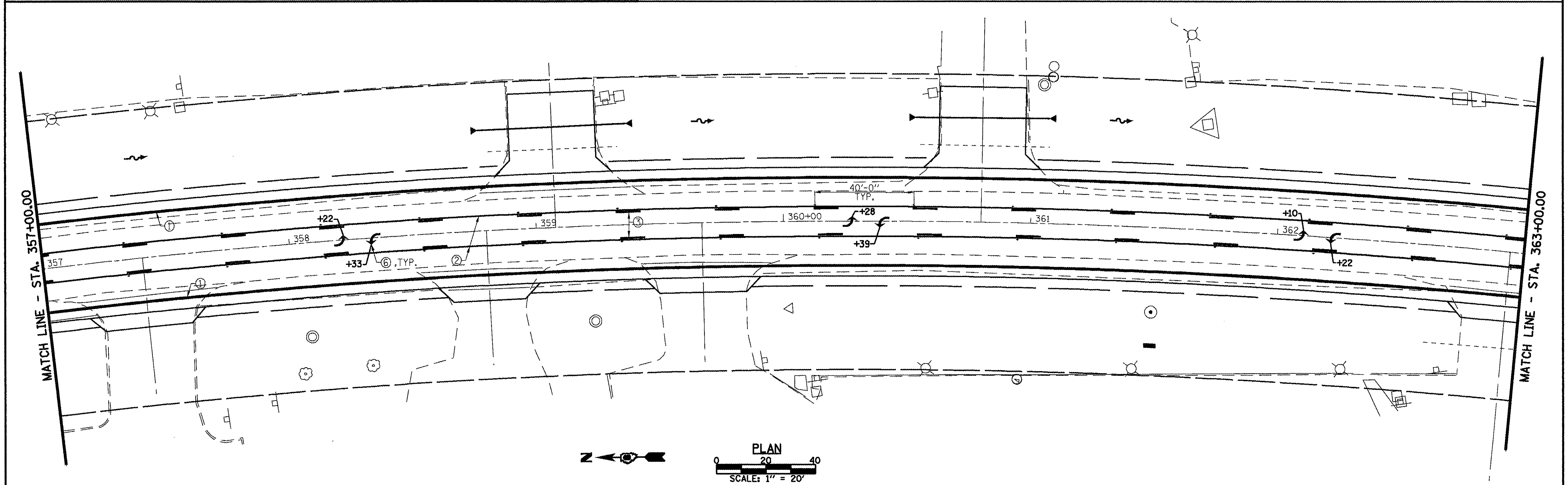


PAVEMENT MARKING LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LINE 5" (SOLID WHITE)
2. THERMOPLASTIC PAVEMENT MARKING - LINE 5" (SOLID YELLOW)
3. THERMOPLASTIC PAVEMENT MARKING - LINE 5" (10' DASH, 30' SKIP, YELLOW)
4. THERMOPLASTIC PAVEMENT MARKING - LINE 8" (SOLID YELLOW)
5. THERMOPLASTIC PAVEMENT MARKING - LINE 24" (SOLID WHITE)
6. PREFORMED PLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE)
7. URETHANE PAVEMENT MARKING - LINE 5" (SOLID WHITE)
8. URETHANE PAVEMENT MARKING - LINE 5" (SOLID YELLOW)
9. PREFORMED PLASTIC PAVEMENT MARKING - LINE 5" (10' DASH, 30' SKIP, YELLOW)
10. PREFORMED PLASTIC PAVEMENT MARKING - LINE 24" (SOLID WHITE)

RAISED REFLECTIVE PAVEMENT MARKER LEGEND

- ◄ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL/OPAQUE MARKER
- ◆ TWO-WAY AMBER MARKER



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		DRAWN	REVISED -	
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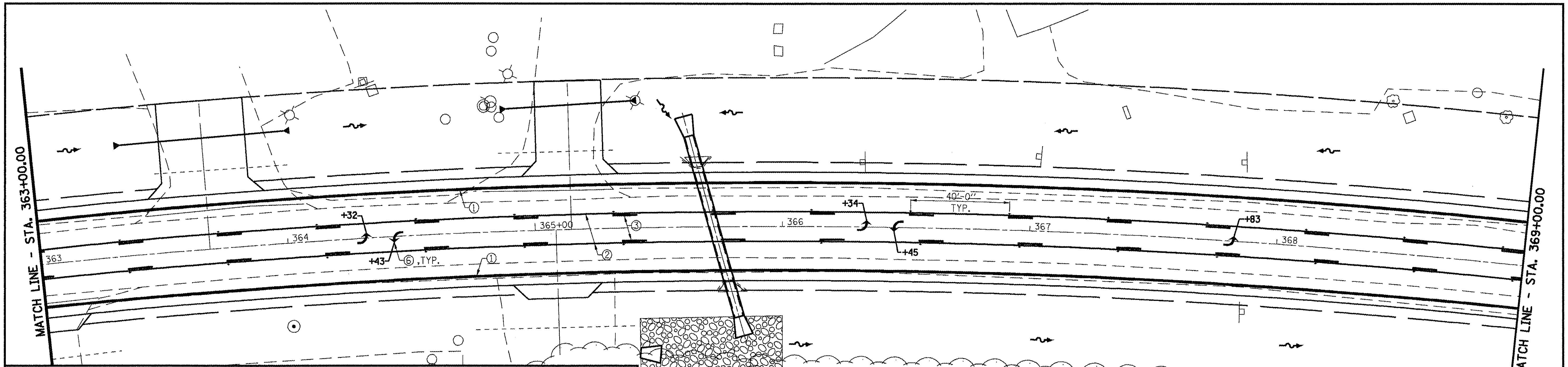
PAVEMENT MARKING PLAN

SCALE: 1" = 20'	SHEET NO. 1 OF 3 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	46
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

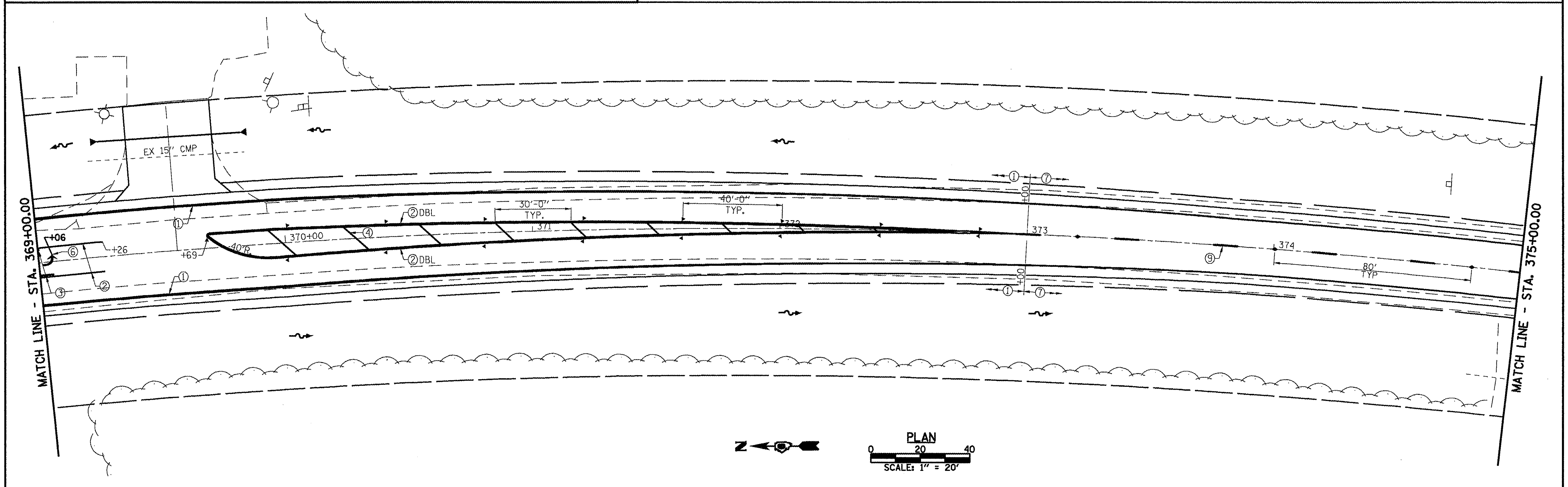


PAVEMENT MARKING LEGEND

1. THERMOPLASTIC PAVEMENT MARKING - LINE 5" (SOLID WHITE)
2. THERMOPLASTIC PAVEMENT MARKING - LINE 5" (SOLID YELLOW)
3. THERMOPLASTIC PAVEMENT MARKING - LINE 5" (10' DASH, 30' SKIP, YELLOW)
4. THERMOPLASTIC PAVEMENT MARKING - LINE 8" (SOLID YELLOW)
5. THERMOPLASTIC PAVEMENT MARKING - LINE 24" (SOLID WHITE)
6. PREFORMED PLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE)
7. URETHANE PAVEMENT MARKING - LINE 5" (SOLID WHITE)
8. URETHANE PAVEMENT MARKING - LINE 5" (SOLID YELLOW)
9. PREFORMED PLASTIC PAVEMENT MARKING - LINE 5" (10' DASH, 30' SKIP, YELLOW)
10. PREFORMED PLASTIC PAVEMENT MARKING - LINE 24" (SOLID WHITE)

RAISED REFLECTIVE PAVEMENT MARKER LEGEND

- ◄ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL/OPAQUE MARKER
- ◆ TWO-WAY AMBER MARKER



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	PLOT DATE = Aug-17-2009 04:06:27PM	DATE -	REVISED -

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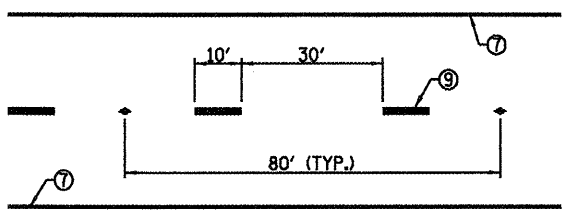
No. 184-001907

PAVEMENT MARKING PLAN

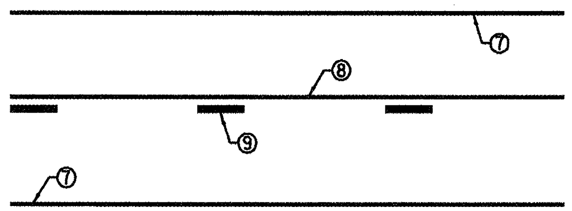
SCALE: 1" = 20' | SHEET NO. 2 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	47
		CONTRACT NO. 72765		

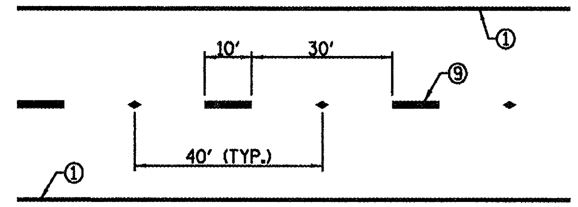
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



TYPICAL PAVEMENT MARKING
(STA. 373+85 TO STA. 507+00)



TYPICAL PAVEMENT MARKING - NO PASS ZONE
(SEE SCHEDULE FOR LOCATIONS)



TYPICAL PAVEMENT MARKING
(STA. 507+00 TO STA. 34+04)

SCHEDULE
PAVEMENT MARKING

LOCATION	PREFORMED PLASTIC PAVEMENT MARKING, TY B-INLAID			THERMOPLASTIC PAVEMENT MARKING					URETHANE PAVEMENT MARKING		TEMPORARY PAVEMENT MARKING				SHORT-TERM PVMT. MRK. LINE	WORK ZONE PVMT. MRK. REMOVAL	PAVEMENT MARKING REMOVAL
	SKIP-DASH (10'/30') YELLOW 5"	SOLID WHITE 24"	LETTERS & SYMBOLS	SOLID WHITE 5"	SOLID YELLOW 5"	SKIP-DASH (10'/30') YELLOW 5"	SOLID YELLOW 8"	SOLID WHITE 24"	SOLID WHITE 5"	SOLID YELLOW 5"	LINE 5"	LINE 8"	LINE 24"	LETTERS & SYMBOLS			
	FOOT	FOOT	SQ. FT.	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ. FT.	FOOT	SQ. FT.	SQ. FT.
STA. 352+50 TO STA. 354+28			31		380	100					480			31		200	
STA. 354+28 TO STA. 373+85	20		250	3784	4190	720	78	18			8714	78	18	250	392	4132	
STA. 373+85 TO STA. 507+00 EDGE LT. & RT.									26623		26623					11093	
STA. 373+85 TO STA. 507+00 ℄	3330										3330				3416	2811	
STA. 507+00 TO STA. 34+04 EDGE LT. & RT.				7555							7555					3148	
STA. 507+00 TO STA. 34+04 ℄	950										950					396	
STA. 385+67 TO STA. 394+50 NPZ SB										883	883					368	
STA. 390+96 RT.		11											11			22	
STA. 391+21 RT. RR XING			61.2											61.2		61	
STA. 391+46 RT.		11											11			22	
STA. 394+23 RT. STOP BAR		11											11			22	
STA. 394+61 TO STA. 404+00 NPZ NB										939	939					391	
STA. 394+93 LT. STOP BAR		11											11			22	
STA. 397+57 LT.		11											11			22	
STA. 397+82 LT. RR XING			61.2											61.2		61	
STA. 398+07 LT.		11											11			22	
STA. 419+39 TO STA. 436+00 NPZ NB/SB										3322	3322					1384	
STA. 436+00 TO STA. 447+19 NPZ NB										1119	1119					466	
STA. 460+46 TO STA. 468+56 NPZ SB										810	810					338	
STA. 471+85 TO STA. 479+46 NPZ NB										761	761					317	
STA. 480+73 TO STA. 489+62 NPZ SB										889	889					370	
STA. 491+60 TO STA. 498+33 NPZ NB										673	673					280	
STAGE CONSTRUCTION STA. 443+65 TO STA. 456+85											5280					2200	797
SUB-TOTAL	4300	66	404	11339	4570	820	78	18	26623	9396	62328	78	84	404	3808	28181	797
TOTAL	4300	66	404	16729			78	18	36019		62328	78	84	404	3808	28181	797

NOTE: SHORT-TERM PAVEMENT MARKING QUANTITIES ARE FOR TWO APPLICATIONS.
* 10% OF TOTAL LENGTH FOR SHORT-TERM PAVEMENT MARKING

PAVEMENT MARKING LEGEND

① THERMOPLASTIC PAVEMENT MARKING - LINE 5" (SOLID WHITE)
② THERMOPLASTIC PAVEMENT MARKING - LINE 5" (SOLID YELLOW)
③ THERMOPLASTIC PAVEMENT MARKING - LINE 5" (10' DASH, 30' SKIP, YELLOW)
④ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (SOLID YELLOW)
⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (SOLID WHITE)
⑥ PREFORMED PLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE)
⑦ URETHANE PAVEMENT MARKING - LINE 5" (SOLID WHITE)
⑧ URETHANE PAVEMENT MARKING - LINE 5" (SOLID YELLOW)
⑨ PREFORMED PLASTIC PAVEMENT MARKING - LINE 5" (10' DASH, 30' SKIP, YELLOW)
⑩ PREFORMED PLASTIC PAVEMENT MARKING - LINE 24" (SOLID WHITE)

RAISED REFLECTIVE PAVEMENT MARKER LEGEND

◂ ONE-WAY AMBER MARKER
◃ ONE-WAY CRYSTAL/OPAQUE MARKER
◆ TWO-WAY AMBER MARKER

FILE NAME = S:\PROJ ENGR 1 (Negangard)\Dust Squad\FAP 662 (IL 4) Henderson pdfs\CADD Sheets\D67??DRAWN PMK1.dgn	USER NAME = madonsavj	DESIGNED -	REVISED -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL. Design Firm No. 184-001907	PAVEMENT MARKING PLAN	F.A.P. RTE. 662 / SECTION D(W-3,RS-11,CR) / COUNTY MACOUPIN / TOTAL SHEETS 102 / SHEET NO. 48
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -		SCALE: NONE / SHEET NO. 3 OF 3 SHEETS / STA. / TO STA.	CONTRACT NO. 72765
	PLOT DATE = Aug-17-2009 04:06:29PM	DATE -	REVISED -			FED. ROAD DIST. NO. / ILLINOIS FED. AID PROJECT

STORM WATER POLLUTION PREVENTION PLAN

Route: FAP 662 (IL 4) Marked: IL 4

Section: D(W-3,RS-11,CR) Project No.: N/A

County: MACOUPIN Contract No.: 72765

This plan has been prepared to comply with the provision of the NPDES Permit Number ILR10 __________ issued by the Illinois Environmental Protection Agency for storm water discharges from construction site activities.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gathered and evaluated the information submitted. Based on my inquire of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted, is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Roger L. [illegible] (Signature) 8/4/03 (Date)

Resident Engr (Title)

Note: The above boxed in area will be filled out by IDOT - Construction after the award of the contract to obtain the required NPDES permit.

The following plan was established and included in these plans to direct the Contractor in the placement of temporary erosion control systems and to provide a storm water pollution prevention plan for compliance under NPDES. The Contractor shall abide to all requirements within this plan as part of the contract.

The purpose of this plan is to prevent / minimize siltation within the construction zone and to eliminate sediments from entering and leaving the construction zone by utilizing proper temporary erosion control systems and providing ground cover within a reasonable time.

Certain items, as shown in this plan and referenced by the legend, shall be placed by the Contractor at the beginning of construction. Other items shall be placed by the Contractor as directed by the Engineer on a case by case situation resulting from the Contractor's sequence of activities, time of the year, and expected weather conditions.

The Contractor shall place permanent erosion control systems and seeding within a reasonable amount of time; therefore, reducing the amount of area being open to the possibility of erosion and reducing the amount of temporary erosion control systems and temporary seeding. The Resident Engineer will determine if temporary erosion control systems shown in the plan can be deleted, the size of the proposed ditch checks, the proper method of installation, and if any additional temporary erosion control systems shall be added which are not included in this plan. The Contractor shall perform all work as directed by the Engineer and as shown in special details and in Standard 280001 of the plans.

The special provisions Temporary Seeding, Temporary Erosion Control Seeding, and Temporary Erosion Control additionally supplement this plan.

All disturbed areas having high potential for erosion, as determined by the Engineer, shall be temporarily seeded or permanently seeded by October 1st of each construction year and shall not be reopened until after the winter shutdown period.

SITE DESCRIPTION

Description of Construction Activity:

1. The proposed project consists of the repair and replacement of various concrete box culverts located on IL 125 in Cass County.
2. Construction consists of grading, riprap placement, hot mix asphalt resurfacing, placing hot mix asphalt and aggregate shoulders, guardrail removal and other miscellaneous work to complete improvements to the proposed roadway.

Description of Intended Sequence of Major Construction Activities Which Will Disturb Earth and Lead to Possible Erosion for Major Portions of the Construction Site:

1. Widening, grading and shaping of ditches at each project location.
2. Excavation will be completed along the IL 4 section to grade out for proposed roadway ditches.
3. Embankment will be completed at shoulders to raise the existing ground elevation to meet the proposed roadway template.
4. Drainage structures will be installed before and/or during the construction of the excavation and embankment to allow proper drainage across private and field entrances.
5. Placement, maintenance, removal and proper clean-up of temporary erosion control, such as erosion control fence, ditch checks, temporary seeding etc.
6. Placement of permanent erosion control, such as seeding, mulch and fertilizer nutrients.
7. Final grading, paving and other miscellaneous items.

Area of Construction Site:
The total drainage area entering and including the construction site is estimated to be approx. 1.76 sq miles in which 7.0 acres will be disturbed by excavation, grading or other activities.

Other Reports, Studies and Plans which Aid in the Development of this Storm Water Pollution Prevention Plan as Referenced Documents:

1. Information on the soils within the site was obtained from field reviews which were utilized for proposed placement of the temporary erosion control systems.
2. U.S.G.S. drainage maps indicating drainage patterns and approximate slopes were referenced along with project plan documents to assist in the proposed placement of the temporary erosion control systems.

Drainage Tributaries Receiving Water from this Construction Site:

1. Unnamed Tributary to East Fork Otter Creek

CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROLS

Description of Stabilization Practices at the Beginning of Construction:

1. The area between the existing and proposed right-of-way/temporary easement boundaries and limits of the project will be improved and managed for the purposes of controlling erosion within the area, reducing water flow by temporary diversion and minimizing siltation into the construction zone, and establishing vegetative cover which will become permanent vegetation and act as an erosion barrier. Work at the beginning of construction will consist of the following:

   (a) Areas of existing vegetation (woods and grasslands) outside the proposed construction slope limits shall be identified for preserving and shall be protected from mowing, brush cutting, tree removal and other activities which would be detrimental to their maintenance and development.

   (b) Dead, diseased, or unsuitable vegetation within the site shall be removed as directed by the Engineer, along with required tree removal.

   (c) As soon as reasonable access is available (such as trees cleared) to all locations where water drains away from the project, sediment basins, riprap ditch checks, temporary ditch checks, and/or erosion control fence shall be installed as called out in this plan and directed by the Engineer.

   (d) Bare and sparsely vegetated ground in highly erodible areas as determined by the Engineer shall be temporarily seeded at the beginning of construction where no construction activities are immediately expected as stated in the special provision "Temporary Erosion Control Seeding".

   (e) Immediately after tree removal is completed in certain areas which are highly erodible areas as determined by the Engineer, the areas shall be temporarily seeded where no construction activities are immediately expected as stated in the special provision •Temporary Erosion Control Seeding•.

   (f) At locations where a significant amount of water drains into the construction zone from outside areas (adjacent landowners), erosion control fence, temporary ditch checks, or riprap ditch checks will be utilized to locally divert water, reduce flow rates, and collect outside siltation inside the right-of-way line. Erosion control items will not be allowed to be installed to cause flooding to upstream private property which could cause crop damages or other undesirable conditions.

2. Establishment of these temporary erosion control measures will have additional benefits to the project. Desirable grass seed will become established in these areas and will spread seeds onto the construction site until permanent seeding/mowing and overseeding can be complete.

3. A third benefit of these filter areas is that they will begin to provide a screen and buffer. They will help protect the construction site from winds and excess sun and mitigate construction noise and dust.

Description of Stabilization Practices During Construction:

1. During roadway construction, areas outside the construction slope limits as outlined previous herein shall be protected from damaging effects of construction. The Contractor shall not use this area for staging (except as designated on the plans or directed by the Engineer), parking of vehicles or construction equipment, storage of materials, or other construction related activities.
   (a) Within the construction zone, critical areas which have high flows of water as determined by the Engineer shall remain undisturbed until full scale construction is underway to prevent unnecessary soil erosion.
   (b) Top soil and earth stockpiles shall be temporarily seeded if they are to remain unused for more than fourteen days.
   (c) As the Contractor constructs a portion of roadway in a fill section, he/she shall follow the following steps as directed by the Engineer:

   i. Place temporary erosion control systems at locations where water leaves and enters the construction zone
   ii. Temporary seed highly erodible areas outside the construction slope limits
   iii. Construct roadside ditches and provide temporary erosion control systems
   iv. Temporary divert water around proposed culvert locations
   v. Build necessary embankment at culvert locations and then excavate and place culvert
   vi. Continue building up the embankment to the proposed grade while at the same time place permanent erosion control such as riprap ditch lining and conduct final shaping to the slopes

   (d) The Contractor shall immediately follow major earth moving operations with final grading equipment. After the major earth spread operation has moved to a new location, final grading shall be completed within fourteen days. If grading is not completed within fourteen days, all major earth moving operations will be stopped, as directed by the Engineer, until disturbed areas are final graded and seeded.

   (e) Excavated areas and embankments shall be permanently seeded when final graded. If not, they shall be temporarily seeded as stated in the special provision "Temporary Erosion Control Seeding".

   (f) Construction equipment shall be stored and fueled only at designated locations. All necessary measures shall be taken to contain any fuel or pollution run-off in compliance with EPA water quality regulations. Leaking equipment or supplies shall be immediately repaired or removed from the site.

   (g) The Resident Engineer shall inspect the project daily during activities and weekly or after large rains during the winter shutdown period. The project shall additionally be inspected by the Construction Field Engineer on a bi-weekly basis to determine that erosion control efforts are in place and effective and if other control work is necessary.

   (h) Sediment collected during construction by the various temporary erosion control systems shall be disposed of on the site on a regular basis as directed by the Engineer. The cost of this maintenance will be paid for in accordance with Article 109.04 of the Standard Specifications.

   (i) The temporary erosion control systems shall be removed as directed by the Engineer after use is no longer needed or no longer functioning. The costs of this removal shall be included in the unit bid price for the temporary erosion control system. No additional compensation will be allowed.

Description of Structural Practices After Final Grading:

1. Temporary erosion control systems shall be left in place with proper maintenance until permanent erosion control is in place and working properly and all proposed turf areas seeded and established with a proper stand.

2. Once permanent erosion control systems as proposed in the plans are functional and established, temporary items shall be removed, cleaned up, and disturbed turf reseeded. Temporary riprap ditch checks will be allowed to remain in place where approved by the Engineer.

Maintenance after Construction:

1. Construction is complete after acceptance is received at the final inspection.

2. Areas will be inspected on a regular basis by IDOT District 6 Bureau of Operations.

3. Maintenance crews will perform regular mowings to aid in keeping weeds down and establishing a good roadside seed stand.

4. Maintenance crews will also aid in any ditch lining maintenance or in any drainage problems.

5. All maintenance will be conducted at times when weather conditions will not cause site damage.

DOCUMENTATION

1. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, date(s) of the inspection, major observations relating to the implementation of this storm water pollution prevention plan, and actions taken in accordance with Section 4.b. shall be made and retained as part of the plan for at least three years after the date of inspection. The report shall be signed in accordance with part VI.G of the general permit.

2. If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Resident Engineer or Resident Technician shall complete and file an "Incident of Noncompliance (ION)" report for the identified violation. The Resident Engineer or Resident Technician shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of noncompliance shall be signed by a responsible authority in accordance with Part VI.G. of the general permit. The report of noncompliance shall be mailed to the following address:

   Illinois Environmental Protection Agency
   Division of Water Pollution Control
   2200 Churchill Road, P.O. Box 19276
   Springfield, IL 62794-9276
   Attn: Compliance Assurance Section

FILE NAME = D672765-sht-swppp.dgn	USER NAME =	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE =	CHECKED -	REVISED -
	PLOT DATE = Aug-17-2009 04:06:34PM	DATE -	REVISED -

Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL. Design Firm
No. 184-001907

STORM WATER POLLUTION PREVENTION PLAN

SCALE: NONE | SHEET NO. 2 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	50
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

CONTRACTOR CERTIFICATION STATEMENT

This certification statement is part of the Storm Water Pollution Plan for the project described below in accordance with NPDES Permit No. ILR10__________, issued by the Illinois Environmental Protection Agency on ____.

Route: FAP 662 Marked: IL 4

Section: D(W-3, RS-11, CR) Project No.: N/A

County: ____________________ Contract No.: 72765

I certify under penalty of law that I understand the terms of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

Signature________________________________ Date____________________________

Title____________________________________

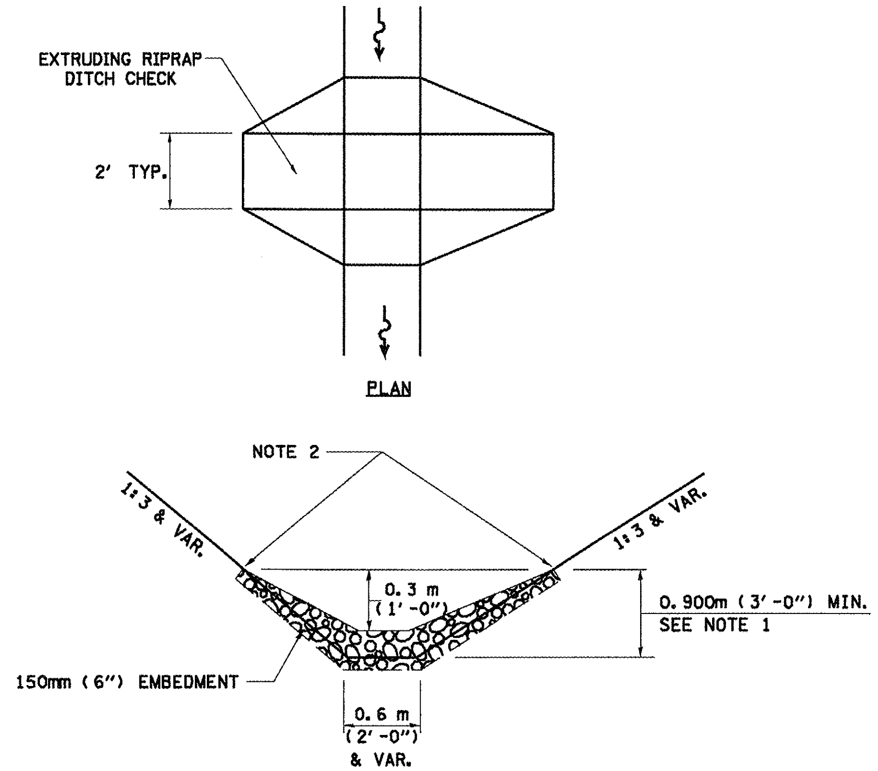
Name of Firm_____________________________

Street Address___________________________

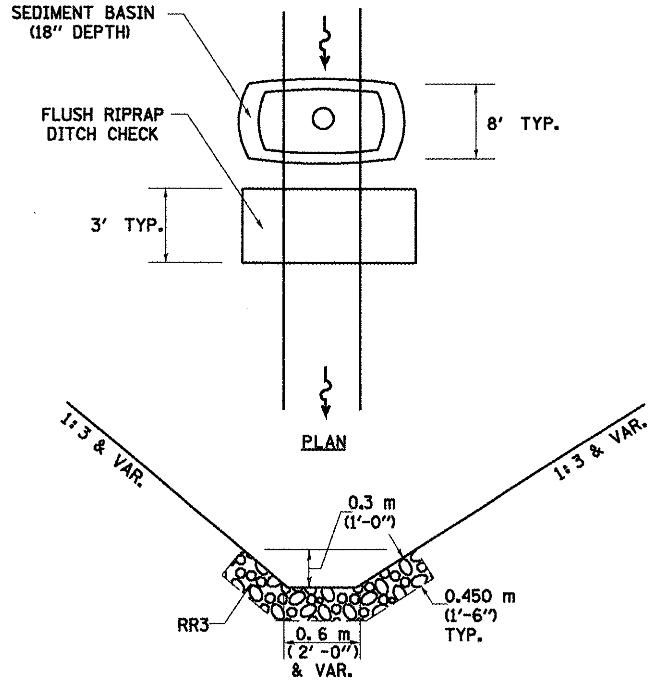
City, State, Zip_________________________

Phone Number_____________________________

Note: The above boxed in area shall be filled out by the Contractor after the award of the contract to obtain the required NPDES Permit from IEPA. This is a requirement for this contract.



OPTION 1
(EXTRUDING DITCH CHECK)
RECOMMENDED FOR AREAS
W/ RIPRAP DITCH LINING



OPTION 2
(FLUSH DITCH CHECK)
RECOMMENDED FOR AREAS
W/O RIPRAP DITCH LINING

STONE DUMPED RIPRAP DITCH CHECK

(TYPICAL & OPTIONS 1 & 2
AS DIRECTED BY THE ENGINEER)

NOTE 1: RIPRAP SHALL EXTEND FAR ENOUGH UP THE SLOPES TO ALLOW 0.3m (1') OVERTOPPING TO AVOID ERODING AROUND THE EDGES OF THE RIPRAP.

NOTE 2: ENDS SHALL BE TIED INTO SLOPES.

LEGEND FOR STORM WATER POLLUTION PREVENTION PLAN

ITEM	SYMBOL
AGGREGATE (EROSION CONTROL) [STONE DUMPED RIPRAP DITCH CHECKS: Height = 0.6m (2')]	
TEMPORARY DITCH CHECKS	
INLET PIPE PROTECTION (I&PP)	
EROSION CONTROL FENCE	
EARTH EXCAVATION FOR EROSION CONTROL (SEDIMENT BASINS)	
PRESERVE EXISTING TREES, WOODLANDS, AND UNDERSTORY (OUTSIDE CONSTRUCTION LIMITS)	
ITEM PLACED AT BEGINNING OF CONSTRUCTION (Requirement)	* ITEM *
ITEM PLACED AS DIRECTED BY ENGINEER (When required by situation)	ITEM
DIRECTION OF OVERLAND FLOW	

GENERAL NOTES:

All items shall be constructed as shown on this sheet, on Standard 280001, and as directed by the Engineer.

The symbology on the STORM WATER POLLUTION PREVENTION PLAN sheets does not represent the size or quantity of bales, for number of bales refer to details and notes shown on this sheet and/or as directed by the Engineer.

THE CONTRACTOR SHALL INSTALL DITCH CHECKS AS DIRECTED BY THE ENGINEER. IF THE ENGINEER ELECTS TO UTILIZE FLUSH RIPRAP DITCH CHECKS IN LIEU OF TEMPORARY DITCH CHECKS AS SHOWN ON THE FOLLOWING PLAN SHEETS, THE SPACING SHOULD BE DOUBLED.

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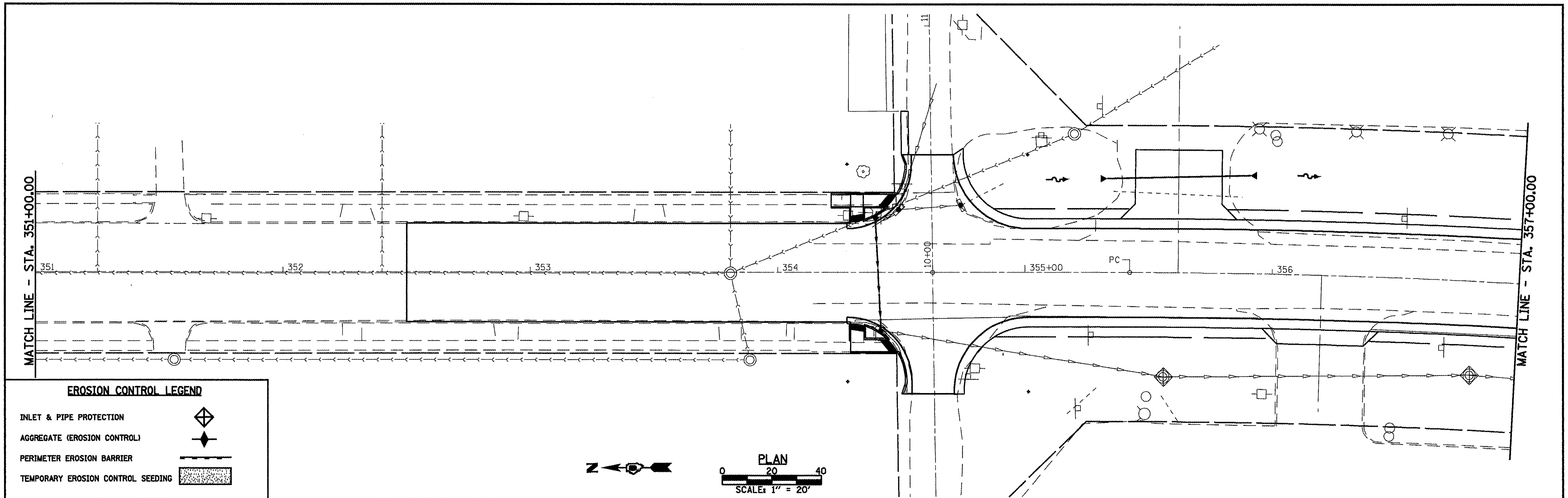
STORM WATER POLLUTION PREVENTION PLAN

SCALE: NONE	SHEET NO. 4 OF 4 SHEETS	STA.	TO STA.

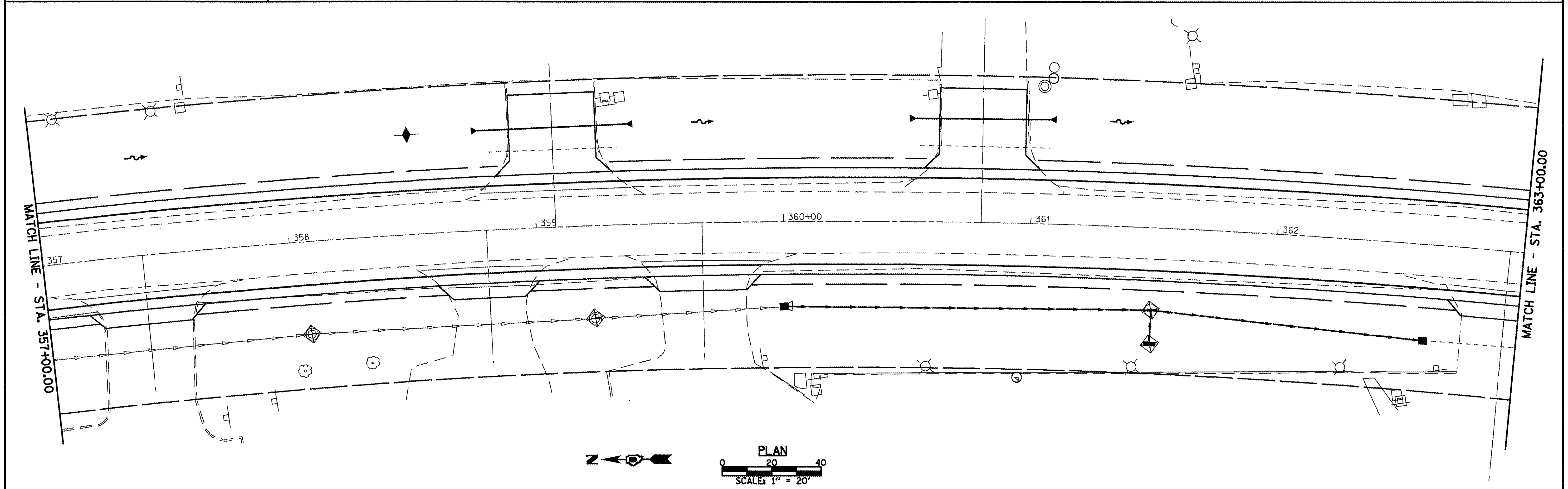
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	52
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



EROSION CONTROL LEGEND

INLET & PIPE PROTECTION	⊕
AGGREGATE (EROSION CONTROL)	◆
PERIMETER EROSION BARRIER	
TEMPORARY EROSION CONTROL SEEDING	

Z
PLAN
0 20 40
SCALE: 1" = 20'



Z
PLAN
0 20 40
SCALE: 1" = 20'

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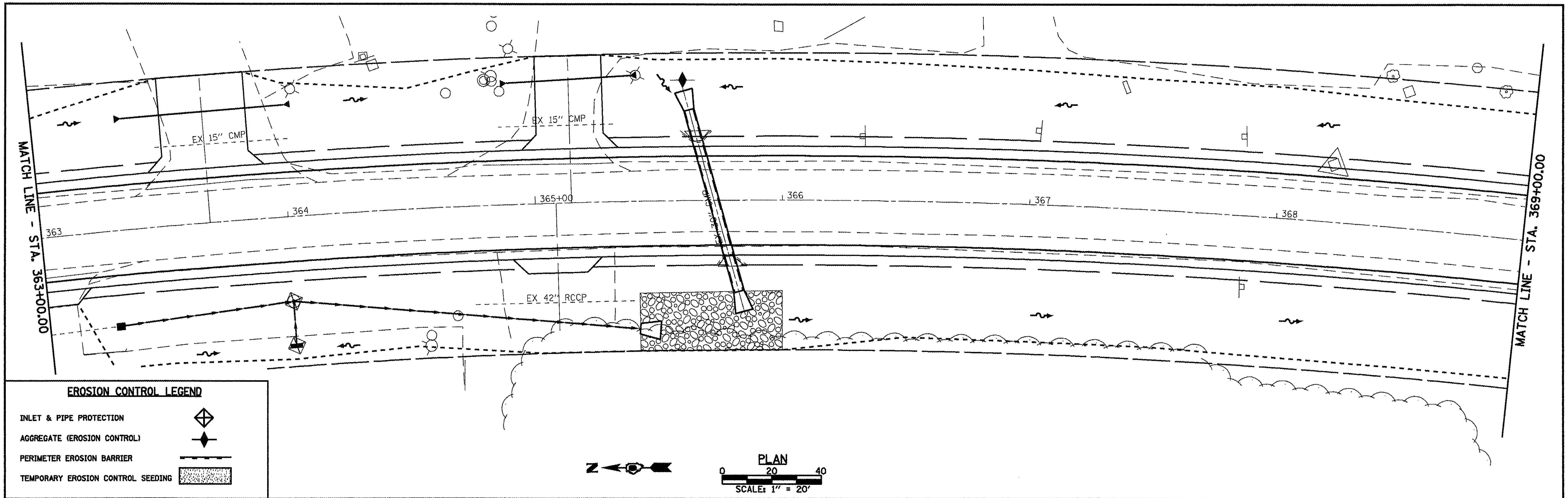
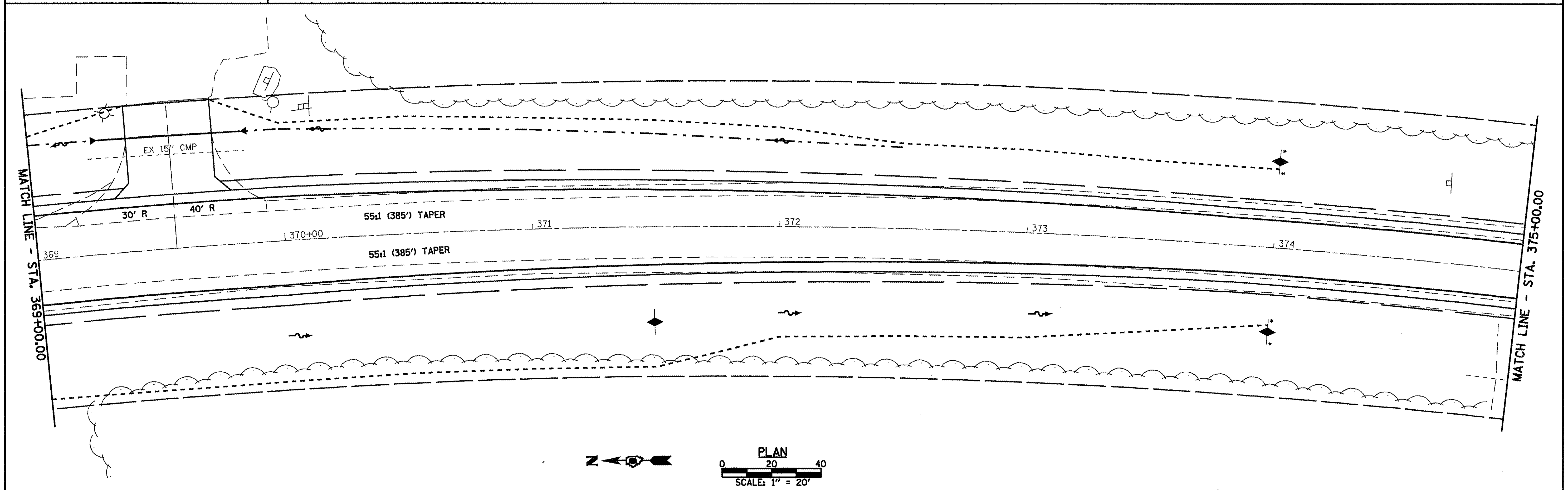
EROSION CONTROL PLAN

SCALE: 1" = 20'	SHEET NO. 1 OF 4 SHEETS	STA. 351+00.00 TO STA. 363+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	53
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			





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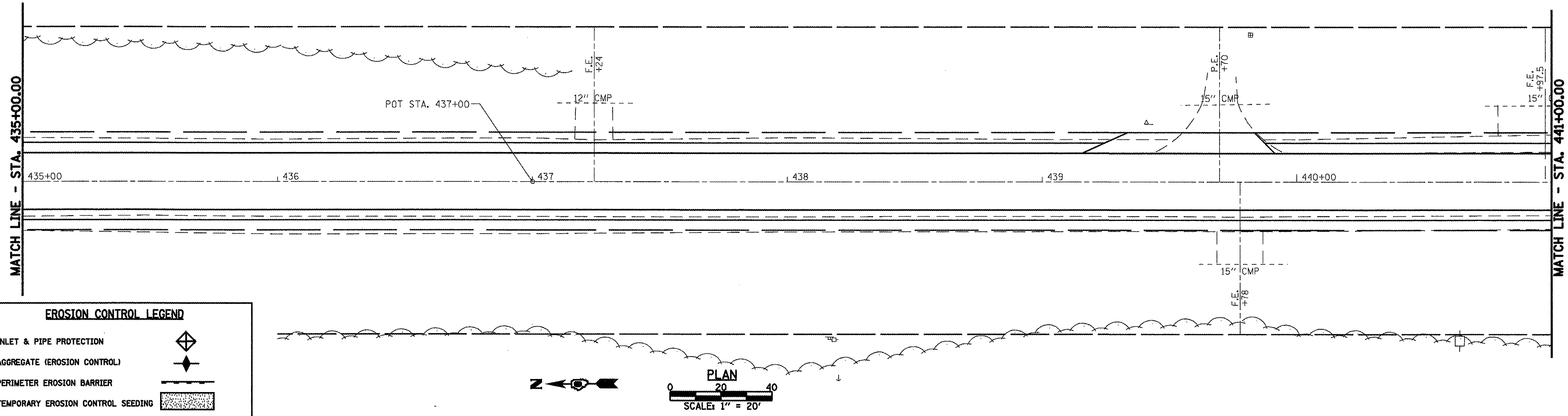
EROSION CONTROL PLAN

SCALE: 1" = 20' | SHEET NO. 2 OF 4 SHEETS | STA. 363+00.00 TO STA. 375+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	54

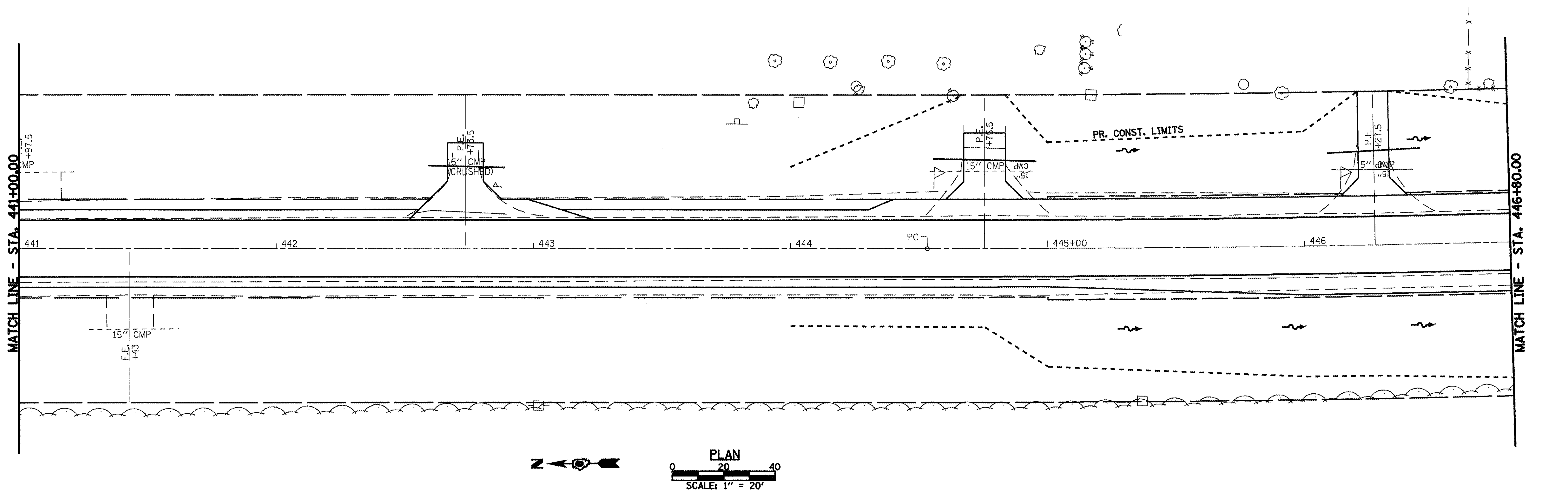
CONTRACT NO. 72765

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



EROSION CONTROL LEGEND

- INLET & PIPE PROTECTION
- AGGREGATE (EROSION CONTROL)
- PERIMETER EROSION BARRIER
- TEMPORARY EROSION CONTROL SEEDING



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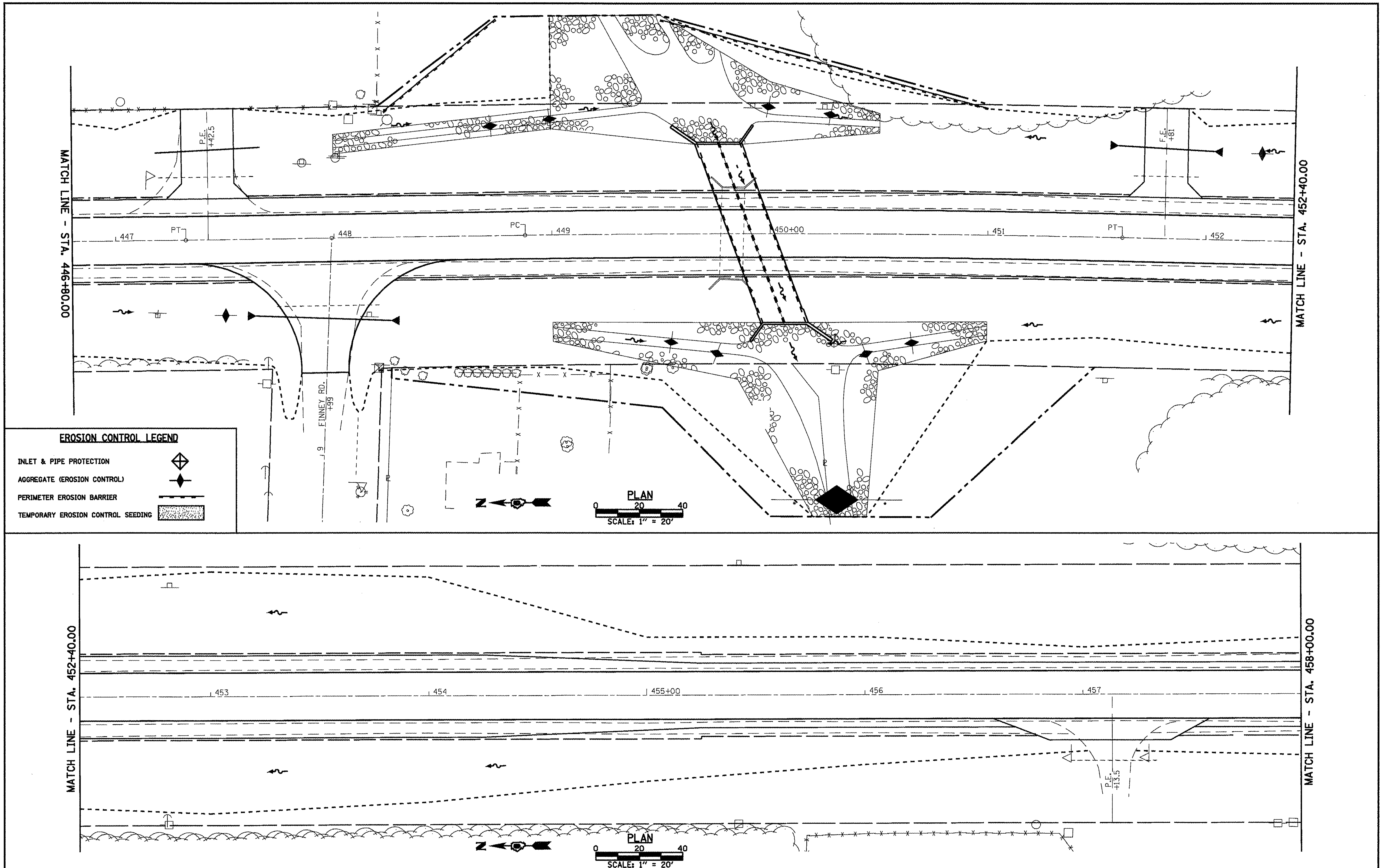
No. 184-001907

EROSION CONTROL PLAN

SCALE: 1" = 20' | SHEET NO. 3 OF 4 SHEETS | STA. 435+00.00 TO STA. 446+80.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	55
		CONTRACT NO. 72765		

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



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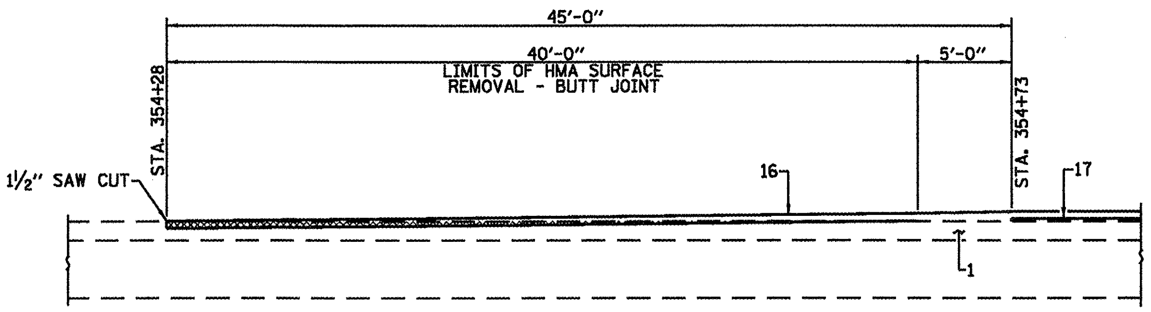
EROSION CONTROL PLAN

SCALE: 1" = 20' | SHEET NO. 4 OF 4 SHEETS | STA. 446+80.00 TO STA. 458+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	56
		CONTRACT NO. 72765		

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



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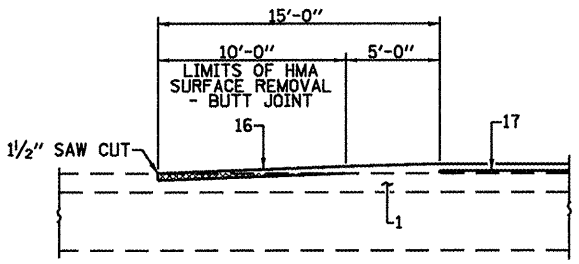
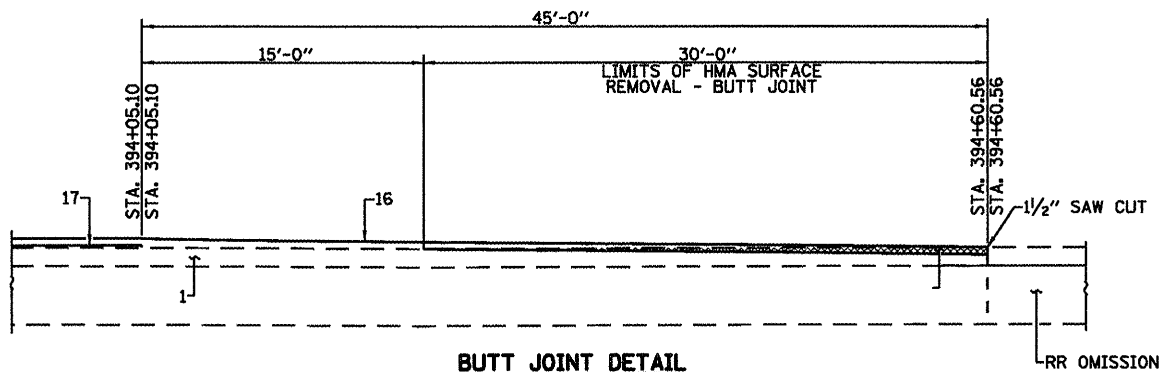
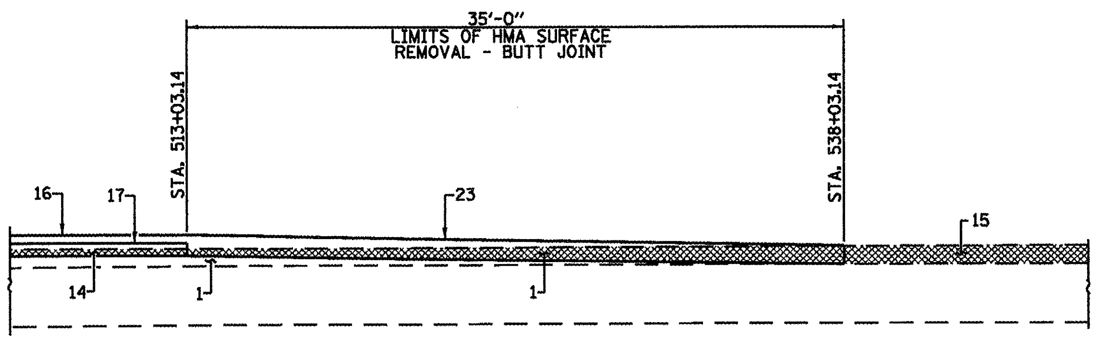


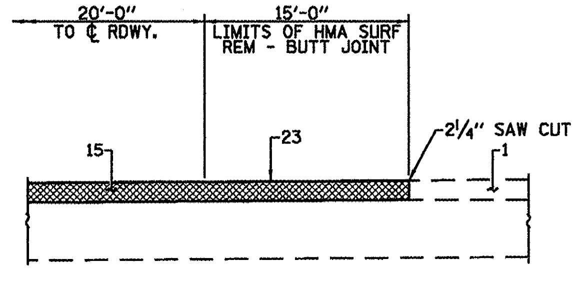
BUTT JOINT DETAIL
(GEORGE ST)



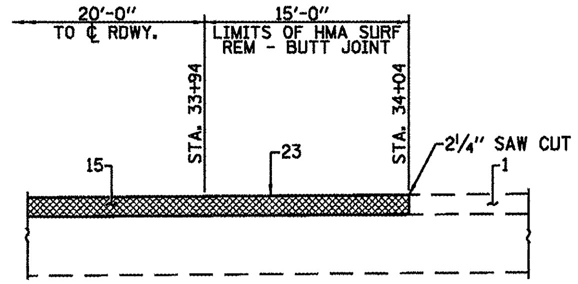
BUTT JOINT DETAIL
(STA. 394+05.10 TO STA. 394+50.10)
(STA. 394+60.56 TO STA. 395+65.56)



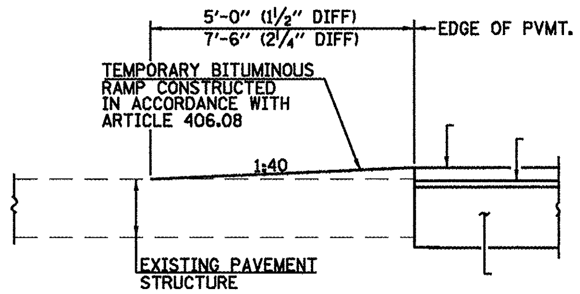
BUTT JOINT DETAIL
(STA. 513+03.14 TO STA. 538+03.14)



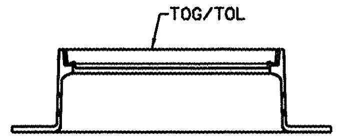
BUTT JOINT DETAIL
(CENTER & MADISON STREET)



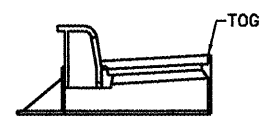
BUTT JOINT DETAIL
(STA. 33+94 TO STA. 34+04)



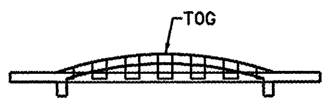
TEMPORARY RAMP DETAIL



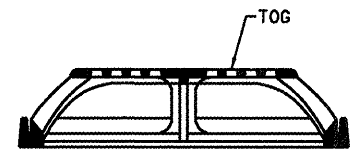
TYPE 1 FRAME/CLOSED LID



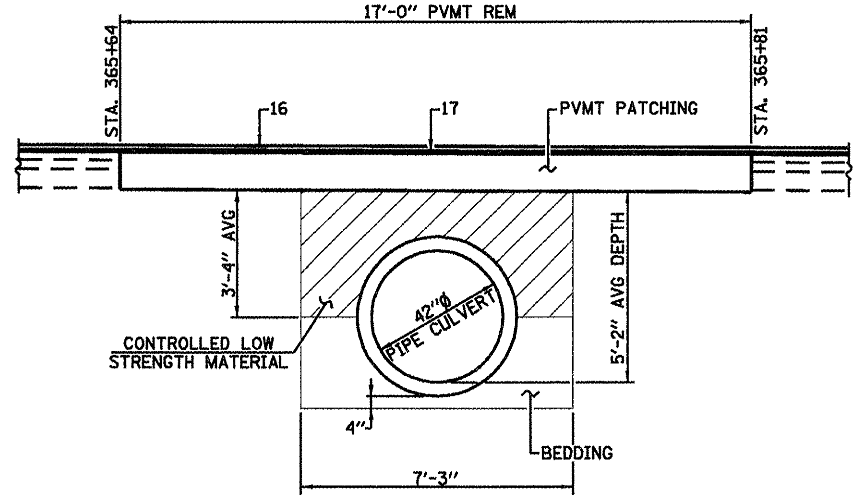
TYPE 3 FRAME AND GRATE



TYPE 8 GRATE



MEDIAN INLET (STD 604601)



TRENCH BACKFILL DETAIL
(STA. 365+72.3)

PAVEMENT LEGEND

1. EX HMA RESURF., 3"
1A. EX HMA SURF, 1½"
1B. EX HMA BINDER, 1¾"
1C. EX PCC PVMT (8-6-8)
2. EX HMA SURF., 3"
3. EX STONE BASE CSE., 7½"
4. EX SUB-BASE GRAN. MATL.
5. EX HMA SHLD, 6" (TBR)
6. EX PCC PVMT, 8"
7. EX HMA WIDENING, 10"
8. EX GRAN. EMB. SPECIAL, VARIES
9. EX PCC PVMT W/ HMA WIDENING, 9"
10. EX PCC PVMT W/ PCC WIDEING, 9"
11. EX HMA SHOULDER 8"
12. EX CONCRETE GUTTER, TY A
13. EX CONCRETE C & G, TYPE B 6.12
13A. EX CONCRETE C & G, TYPE 3

14. PR HMA SURF. REM., VAR. DEPTH (1/2" AT ℄)
14A. PR HMA SURF REM, 1½"
15. PR HMA SURF. REM., 2¼"
16. PR HMA SURF. CSE., 1½"
17. PR LEVELING BINDER (MM),¾" MIN.
18. PR HMA BASE CSE./WIDENING, 10"
19. PR HMA BASE CSE./WIDENING, 12"
20. PR HMA SHLD, 8"
21. PR HMA SHLD, 2¼" & VAR.
22. PR AGG SHLD, TYPE B
23. PR HMA BINDER CSE., 2¼" (MIN.)
24. PR SUB-BASE GRAN. MATL., TY A, VAR DEPTH
25. PR EARTH EXC./EMB.
26. PR GRADING & SHAPING SHLD.
27. PR PVMT MARKING, LINE 5"
28. PR TEMP GUARDRAIL
29. PR SHLD RUMBLE STRIPS

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		DRAWN - RKA	REVISED -
	PLOT SCALE =	CHECKED - CPK	REVISED -
	PLOT DATE = Aug-17-2009 04:06:54PM	DATE - 04/07/08	REVISED -

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Civil and Structural Engineers Springfield, IL.
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No. 184-001907

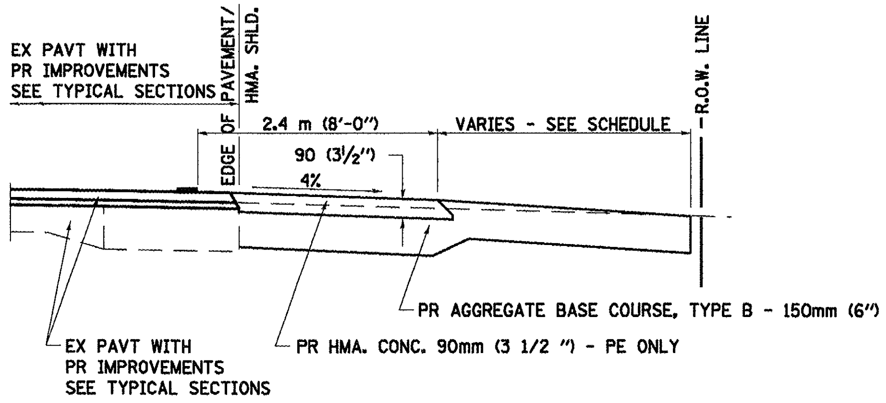
BUTT JOINT AND MISCELLANEOUS DETAILS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

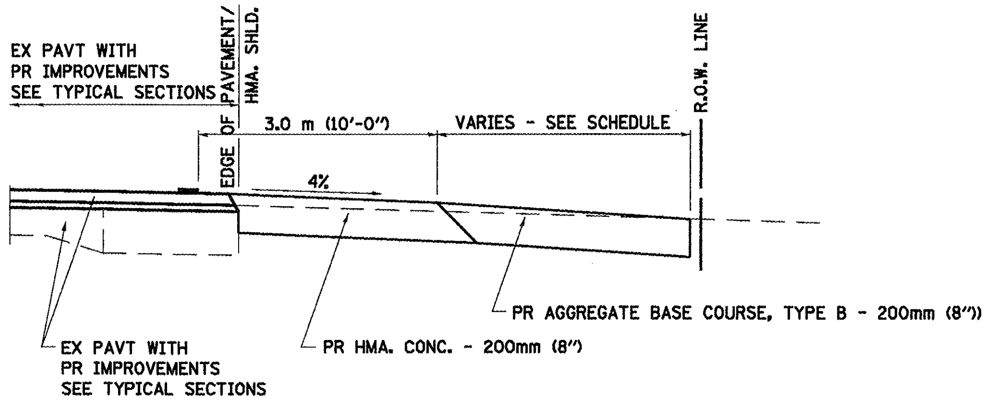
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	57

CONTRACT NO. 72765

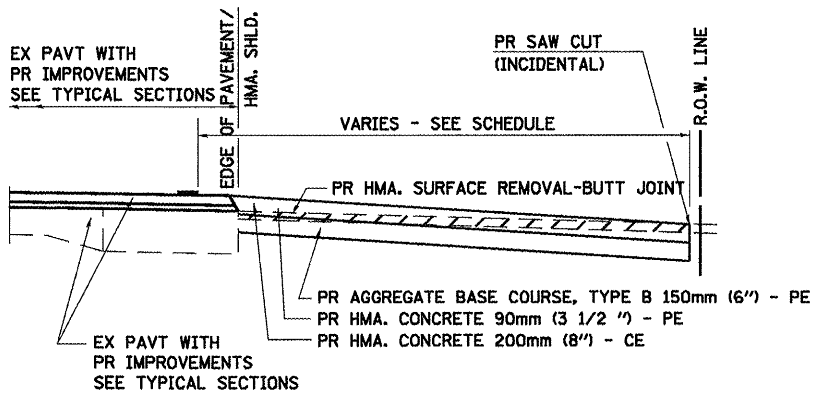
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



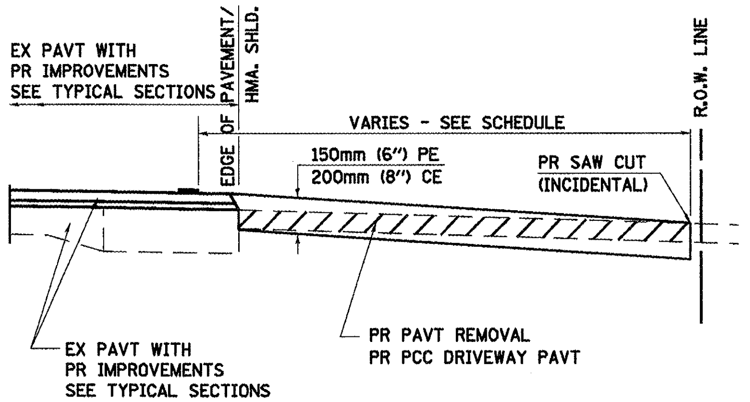
SECTION A-A FOR EX EARTH/AGGREGATE FE & PE



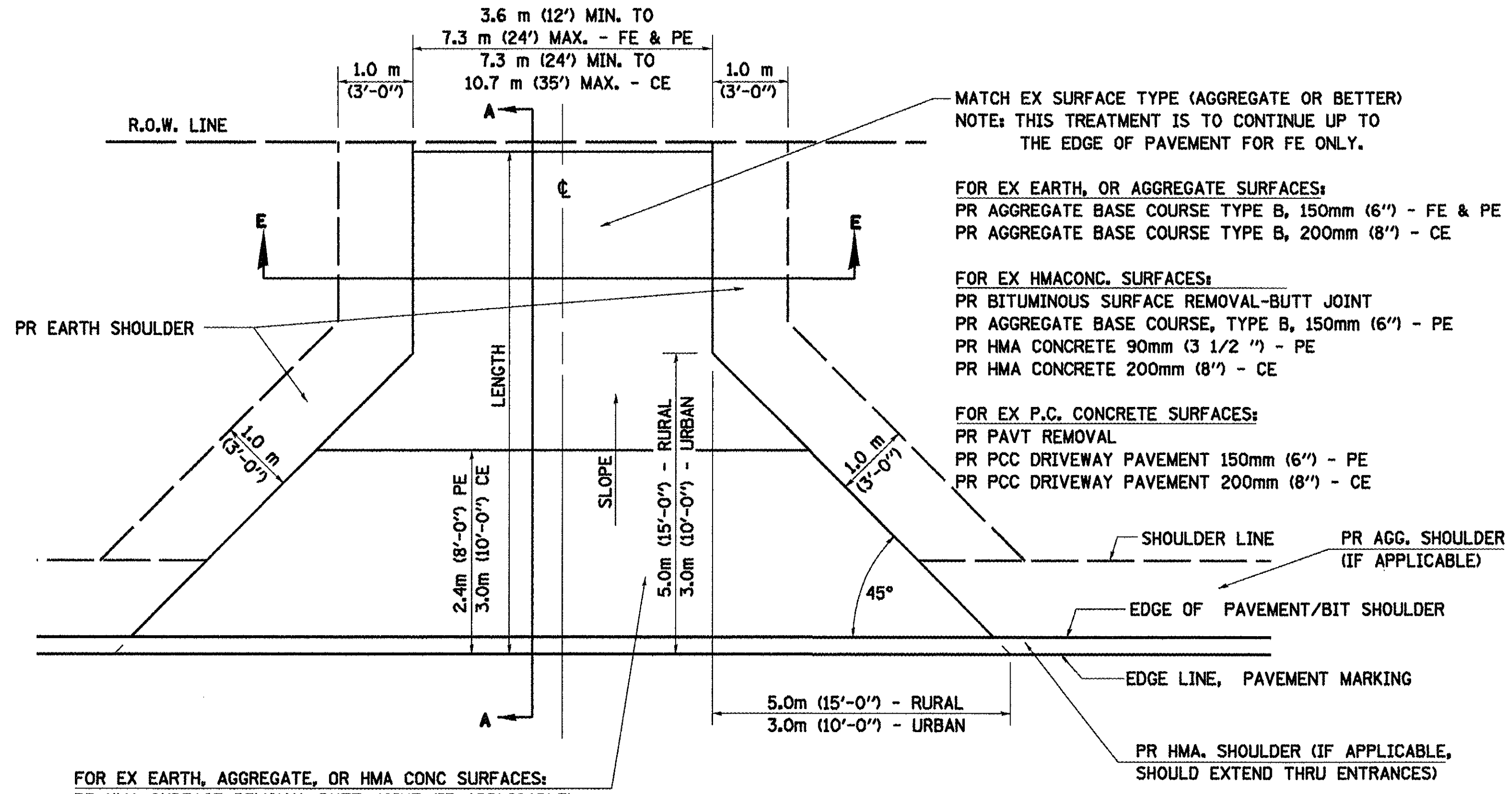
SECTION A-A FOR EX EARTH/AGGREGATE CE



SECTION A-A FOR EX HMA PE & CE



SECTION A-A FOR EX P.C. CONC. PE & CE



FOR EX EARTH, AGGREGATE, OR HMA CONC SURFACES:
PR HMA SURFACE REMOVAL-BUTT JOINT (IF APPLICABLE)
PR AGGREGATE BASE COURSE TYPE B 150mm (6") - FE
PR AGGREGATE BASE COURSE TYPE B, 150mm (6") &
PR HMA CONCRETE 90mm (3 1/2 ") - PE
PR HMA CONCRETE 200mm (8") - CE

FOR P.C. CONCRETE SURFACES:
PR PAVT REMOVAL
PR PCC DRIVEWAY PAVT 150mm (6") - PE
PR PCC DRIVEWAY PAVT 200mm (8") - CE

GENERAL NOTES:

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES, SIDEROADS AND MAILBOX TURNOUTS ON THIS PROJECT.

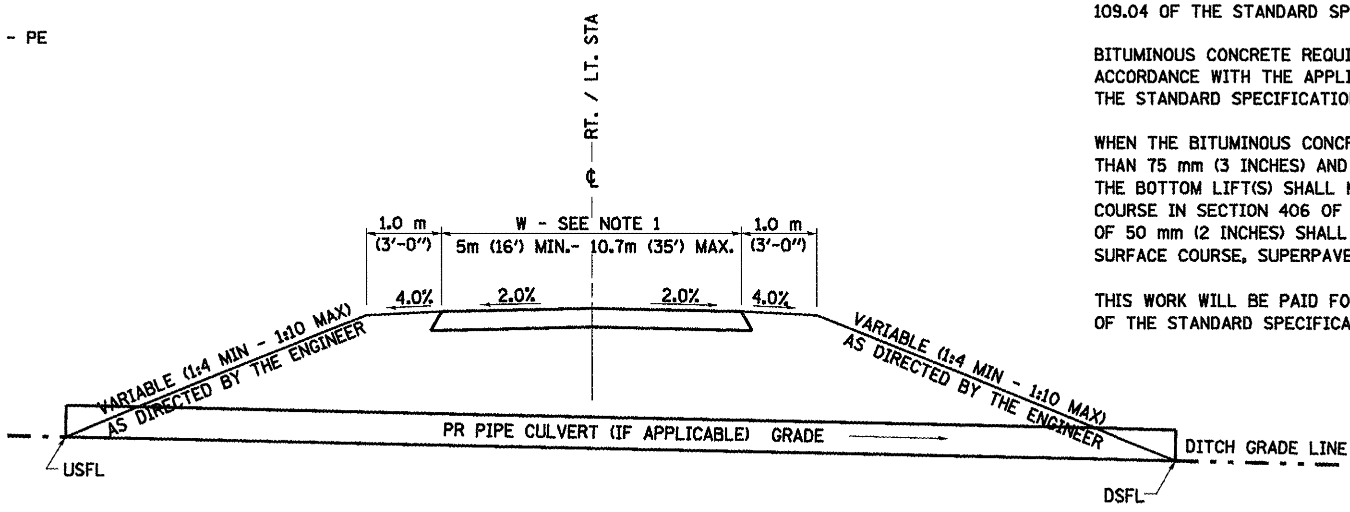
THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE, REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

BITUMINOUS CONCRETE REQUIRED TO CONSTRUCT THE ENTRANCES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 406 AND 408 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

WHEN THE BITUMINOUS CONCRETE PROPOSED FOR THE IMPROVEMENT IS THICKER THAN 75 mm (3 INCHES) AND REQUIRE PLACEMENT IN MORE THAN ONE LIFT. THE BOTTOM LIFT(S) SHALL MEET THE REQUIREMENTS OF BITUMINOUS BASE COURSE IN SECTION 406 OF THE STANDARD SPECIFICATIONS AND THE TOP LIFT OF 50 mm (2 INCHES) SHALL MEET THE REQUIREMENTS OF BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE.

THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH SECTIONS 351, 358, 408, 423 AND 440 OF THE STANDARD SPECIFICATIONS.



SECTION E - E ENTRANCE TYPICAL SECTION

NOTE 1: WIDTH OF ENTRANCE MAY BE INCREASED AT THE PIPE CULVERT DUE TO THE DITCHLINE BEING LOCATED IN THE ENTRANCE FLARE AREA.

2/19/03

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

D-96-508-07

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DISTRICT SIX DETAILS FOR RURAL/URBAN ENTRANCE
& MAILBOX TURNOUT W/O CONCRETE GUTTER (3R-PROJECTS)

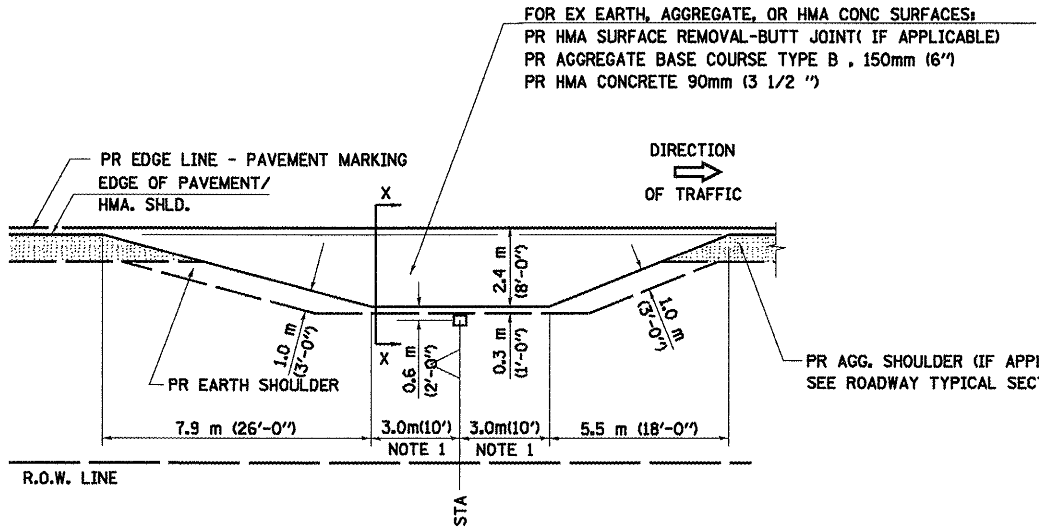
SCALE: NONE | SHEET NO. 1 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	58
		CONTRACT NO. 72765		

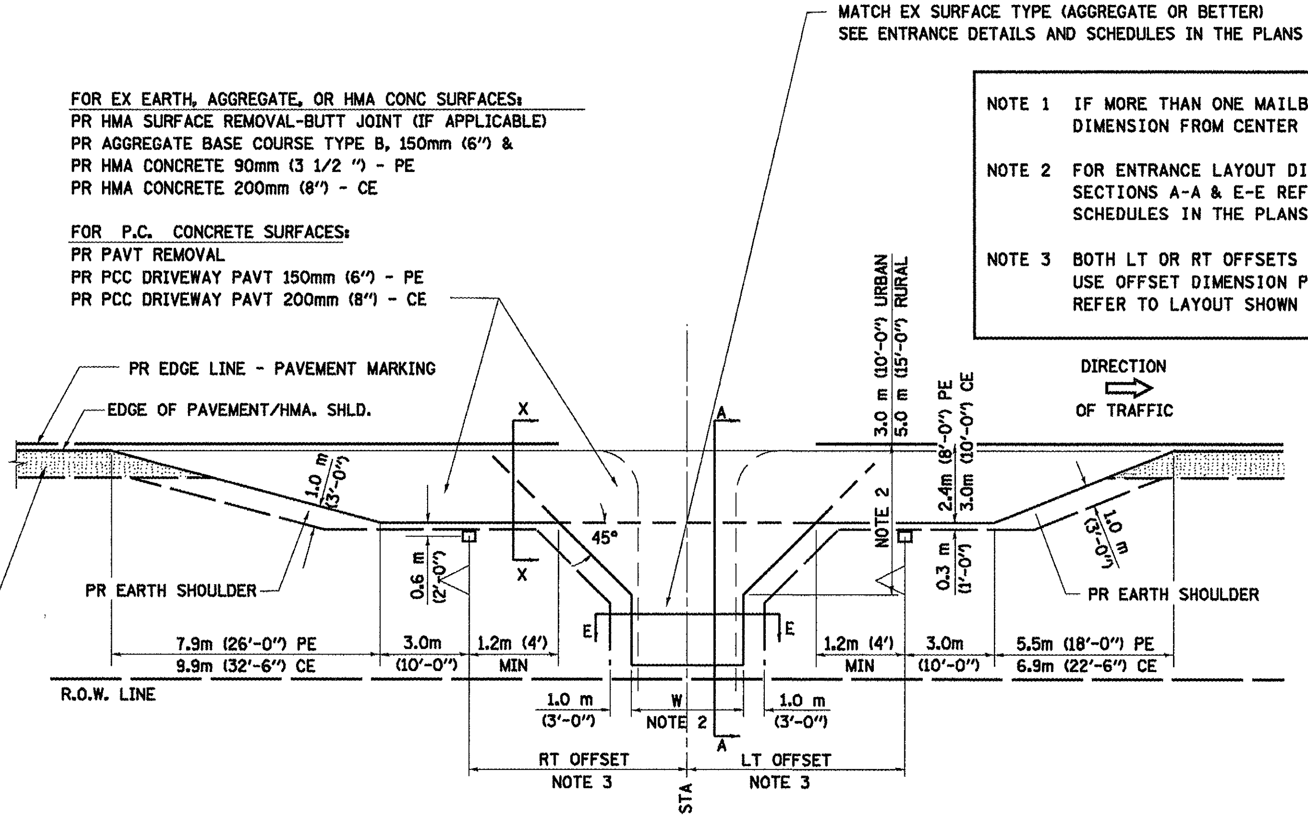
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

DETAILS OF MAILBOX TURNOUTS

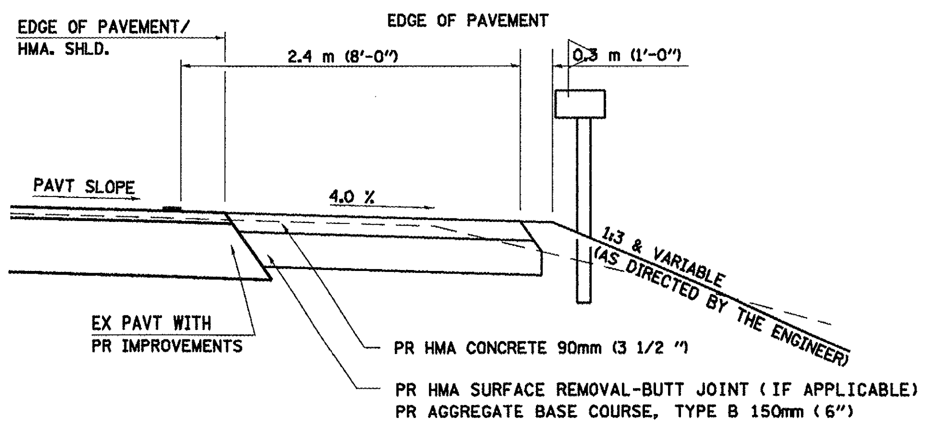
NOTE 1	IF MORE THAN ONE MAILBOX IS PRESENT, DIMENSION FROM CENTER OF END MAILBOX.
NOTE 2	FOR ENTRANCE LAYOUT DIMENSIONS AND SECTIONS A-A & E-E REFER TO THE SCHEDULES IN THE PLANS.
NOTE 3	BOTH LT OR RT OFFSETS FOR MAILBOX SHOWN USE OFFSET DIMENSION PER SCHEDULE AND REFER TO LAYOUT SHOWN ON THE PLAN.



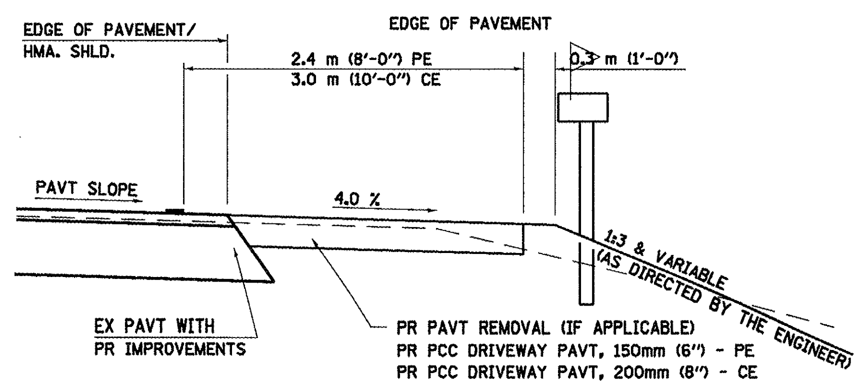
PLAN - MAILBOX TURNOUTS



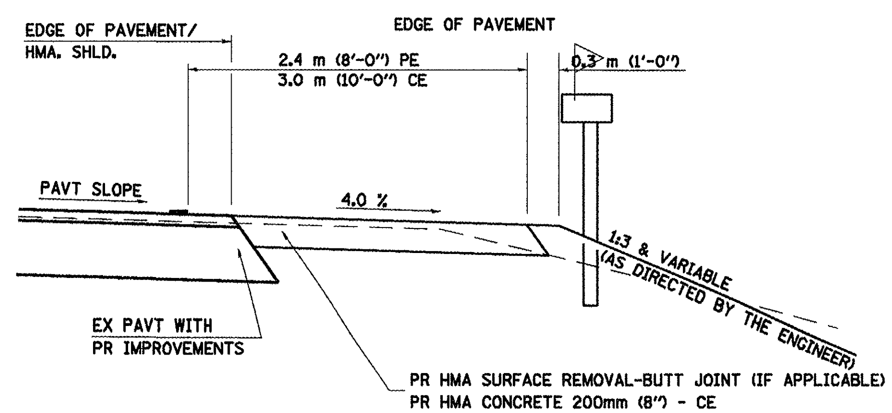
PLAN - COMBINED MAILBOX TURNOUT WITH TRAILING OR LEADING ENTRANCE



SECTION X-X THRU MAILBOX TURNOUT ALSO APPLIES TO MAILBOX TURNOUTS COMBINED WITH EX EARTH, AGGREGATE, OR HMA PE & FE



SECTION X-X THRU MAILBOX TURNOUT COMBINED WITH EX CONC PE OR CE



SECTION X-X THRU MAILBOX TURNOUT COMBINED WITH EX EARTH, AGGREGATE, OR HMA CE

D-96-506-07

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		DATE -	REVISED -

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Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL. Design Firm No. 184-001907

DISTRICT SIX DETAILS FOR RURAL/URBAN ENTRANCE & MAILBOX TURNOUT W/O CONCRETE GUTTER (3R-PROJECTS)

SCALE: NONE | SHEET NO. 2 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	59

CONTRACT NO. 72765

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

ENTRANCE IMPROVEMENT SCHEDULE FOR RURAL / URBAN "3R" PROJECTS																	
LOCATION	TYPE OF ENTRANCE	EX MATERIAL TYPE	WIDTH	RT OFFSET	LT OFFSET	LENGTH (FROM EDGE OF PVT/ HMA SHLD TO LIMITS OF IMPROVEMENT)	PR HMA. CONC. THICKNESS	HMA. SURF. REM. - BUTT JOINT	PAVEMENT REMOVAL	PREP OF BASE	AGG. BASE REPAIR	AGGREGATE BASE COURSE TY - B	BIT (P.C.)	AGG (P.C.)	INCIDENTAL HMA. SURF.	P.C.C. DRIVEWAY PAVEMENT 6"	P.C.C. DRIVEWAY PAVEMENT 8"
(LT / RT) (STA) (+)	(FE / PE / CE / MB) (RURAL / URBAN)	(EARTH / AGG. / HMA. / P.C.C.)	FOOT	FOOT	FOOT	FOOT	INCH	SQ. YD.	SQ. YD.	SQ. YD.	TON	TON	TON	TON	TON	SQ. YD.	SQ. YD.
LT STA 355+62	CE / URBAN	HMA.	35			28	8	218							50.8		
RT STA 356+20	CE / URBAN	P.C.C.	35			6			82								27.1
RT STA 357+40.4	CE / URBAN	P.C.C.	35			6			82								27.1
RT STA 358+79.9	CE / URBAN	HMA.	29			6	8	75							10.4		
LT STA 359+07.9	CE / URBAN	P.C.C.	35			33			199								132.8
RT STA 359+67	CE / URBAN	HMA.	35			6	8	80							12.2		
LT STA 360+80	CE / URBAN	P.C.C.	35			33			196								132.8
RT STA 362+94.4	CE / URBAN	HMA.	35			6	8	86							12.2		
LT STA 363+68.4	CE / URBAN	HMA.	35			38	8	248							68.1		
RT STA 365+08.5	FE / URBAN	EARTH	24			6						6.8					
LT STA 365+14.7	CE / URBAN	HMA.	27			38	8	193							52.8		
LT STA 369+56.2	CE / URBAN	P.C.C.	35			38			245								153
LT STA 446+27.5	PE / RURAL	AGG.	12			41						20.5					
LT STA 447+42.5	PE / RURAL	AGG.	24			41						39.2					
LT STA 451+81	FE / RURAL	EARTH	20			41						33					
AGG FOR TEMP ACCESS AT ENTRANCES												15					
TOTAL =								900	804			114.5			206.5		472.8

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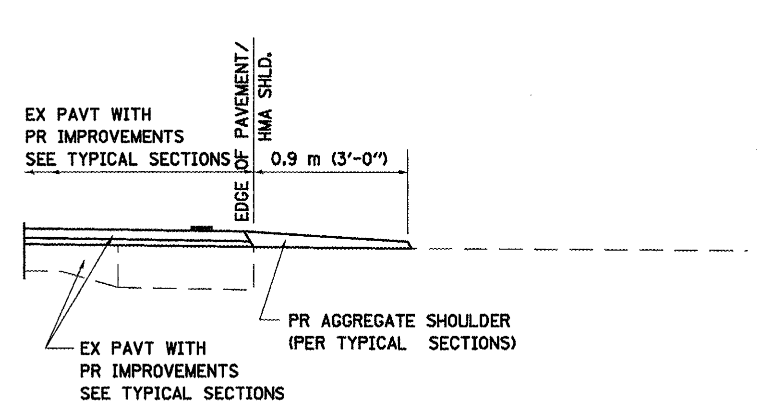
No. 184-001907

D-96-506-07

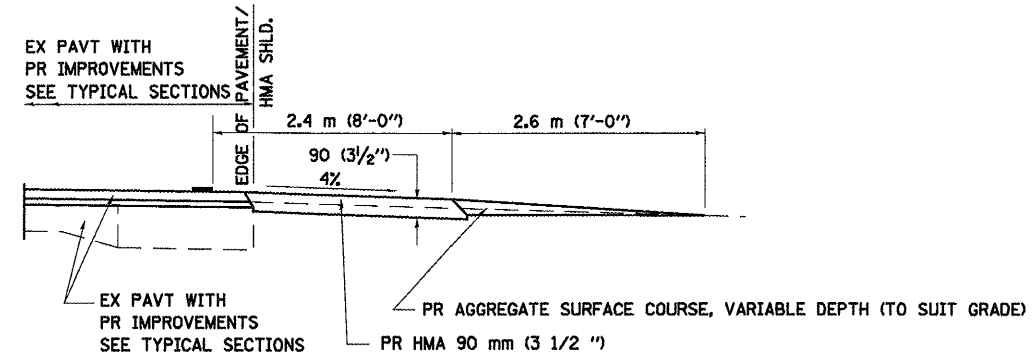
DISTRICT SIX DETAILS FOR RURAL/URBAN ENTRANCE & MAILBOX TURNOUT W/O CONCRETE GUTTER (3R-PROJECTS)

SCALE: NONE | SHEET NO. 3 OF 6 SHEETS | STA. | TO STA.

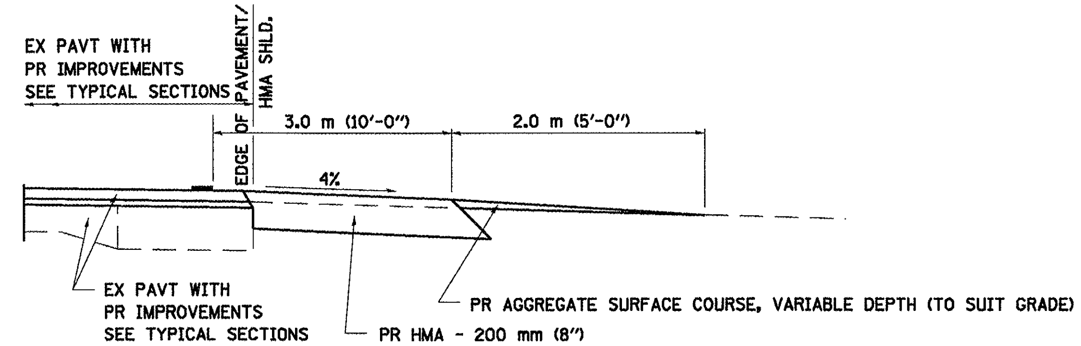
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	60
CONTRACT NO. 72765				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



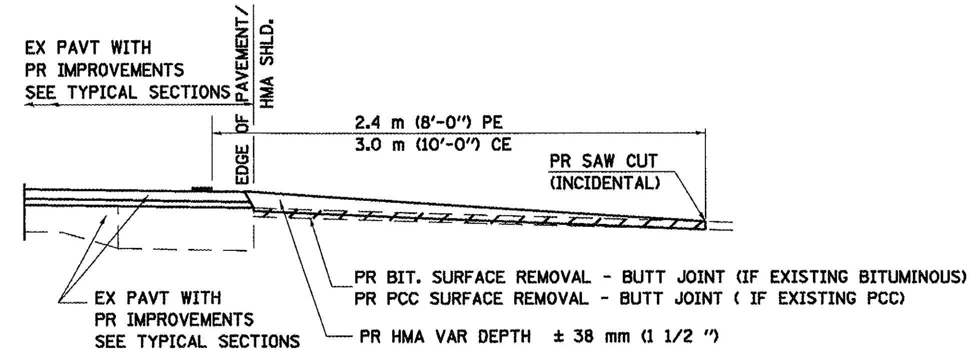
SECTION A-A FOR EX EARTH/ AGGREGATE FE



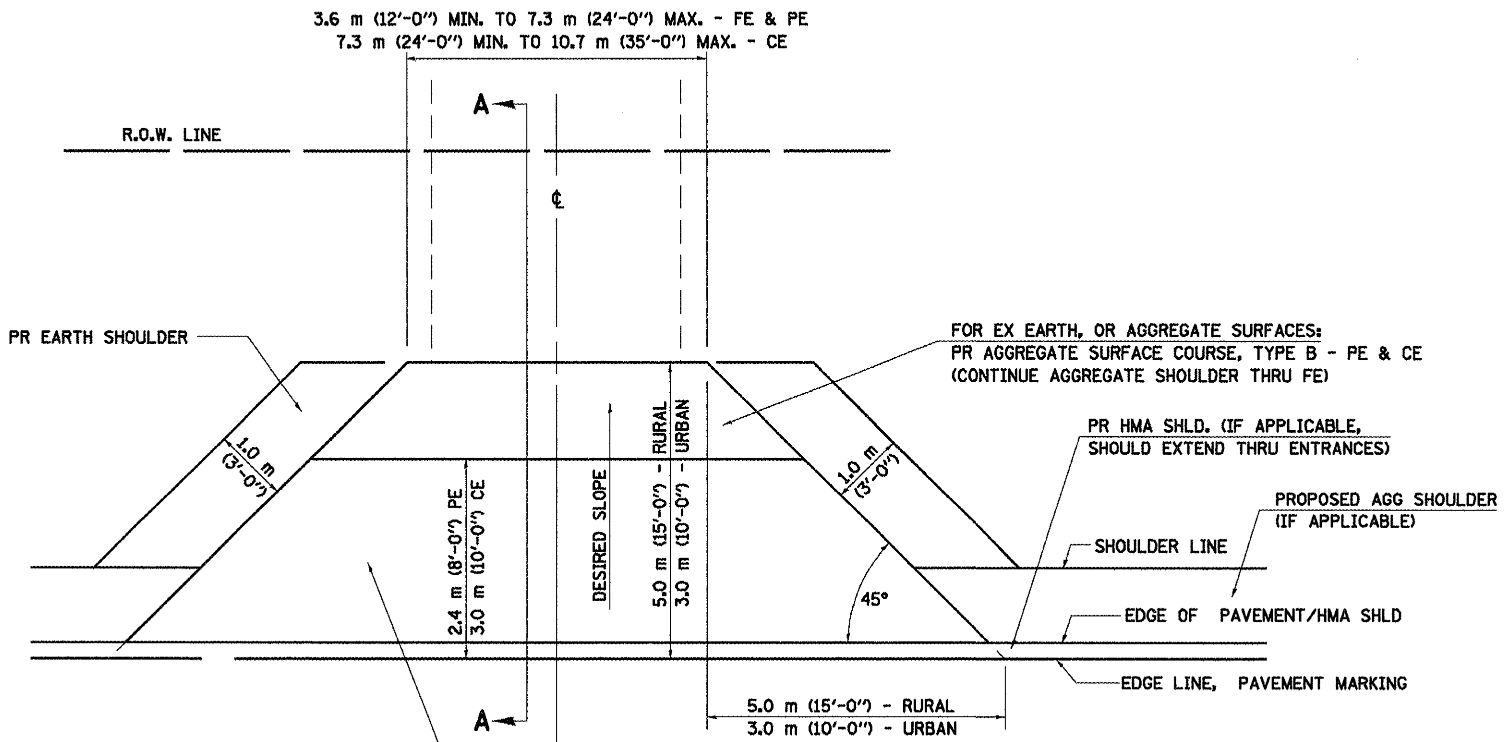
SECTION A-A FOR EX EARTH/AGGREGATE PE



SECTION A-A FOR EX EARTH/AGGREGATE CE & SIDE ROAD



SECTION A-A FOR EX BITUMINOUS/ PC CONCRETE PE, CE & SIDE ROAD

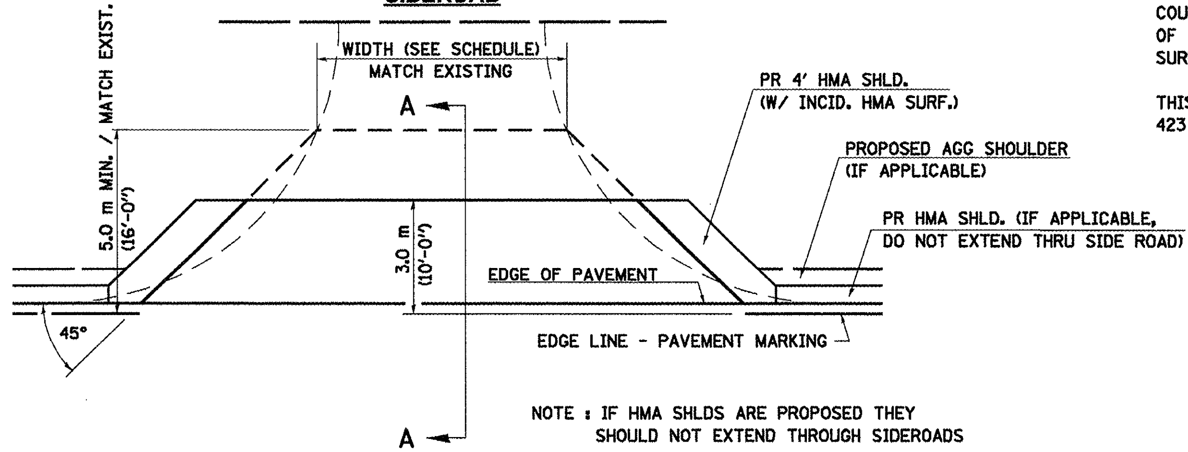


FOR EX EARTH OR AGGREGATE SURFACES:
PR BIT SURFACE REMOVAL (IF APPLICABLE)
PR AGGREGATE SHOULDER THRU - FE
PR BITUMINOUS CONCRETE 90 mm (3½") - PE
PR BITUMINOUS CONCRETE 200mm (8") - CE

FOR EX BITUMINOUS CONCRETE SURFACES:
PR BITUMINOUS SURFACE REMOVAL-BUTT JOINT

FOR EX PCC SURFACES:
PR PCC SURFACE REMOVAL-BUTT JOINT

SIDEROAD



NOTE : IF HMA SHLDS ARE PROPOSED THEY
SHOULD NOT EXTEND THROUGH SIDEROADS

GENERAL NOTES:

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES, SIDEROADS AND MAILBOX TURNOUTS ON THIS PROJECT.

THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE, REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

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THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH SECTIONS 351, 358, 408, 423 AND 440 OF THE STANDARD SPECIFICATIONS.

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

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PLOT DATE = Aug-17-2009 04:07:03PM

DESIGNED -
DRAWN - CADD
CHECKED - JCN
DATE - FEBRUARY 23, 1999

REVISED - 2/19/03 JCN
REVISED - 4/01/04 JCN
REVISED -
REVISED -

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Civil and Structural Engineers Springfield, IL.
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No. 184-001907

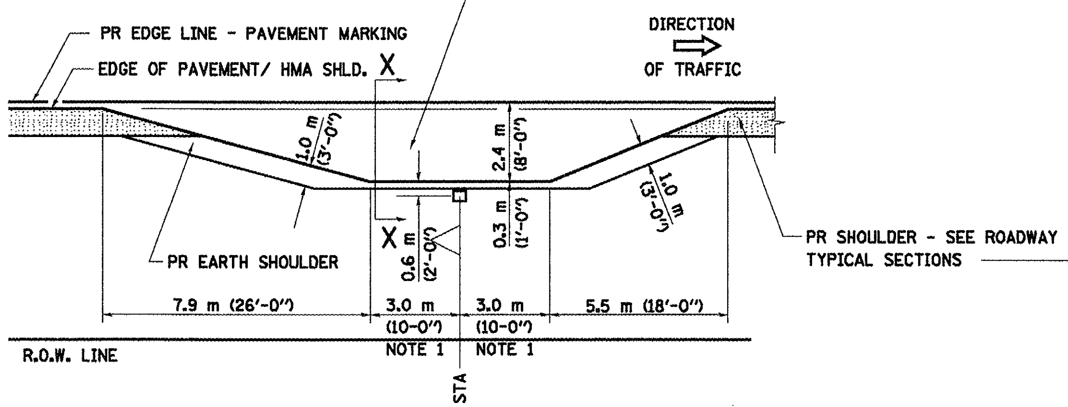
DIST. 6 DETAILS FOR RURAL/URBAN ENT., MAILBOX TURNOUT & SIDEROADS W/O CONC. GUTTER (3P-PROJ.)

SCALE: NONE | SHEET NO. 4 OF 6 SHEETS | STA. | TO STA.

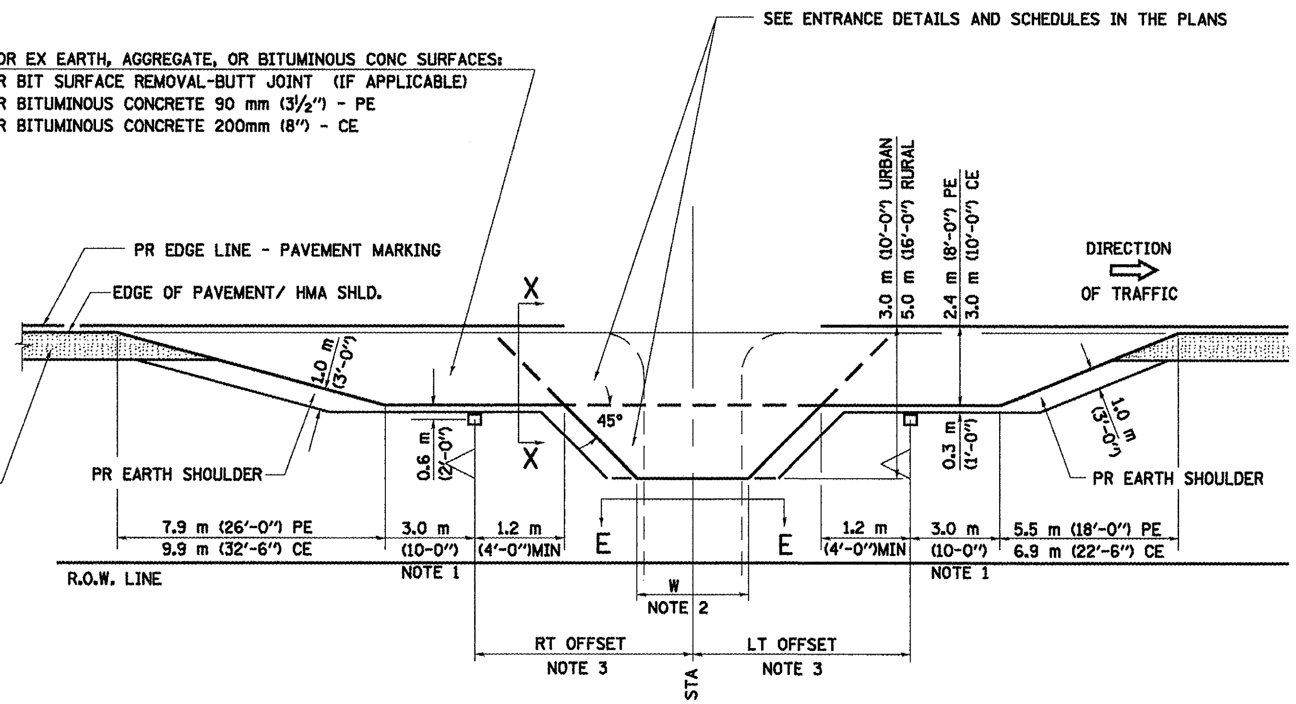
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	61
		CONTRACT NO. 72765		

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

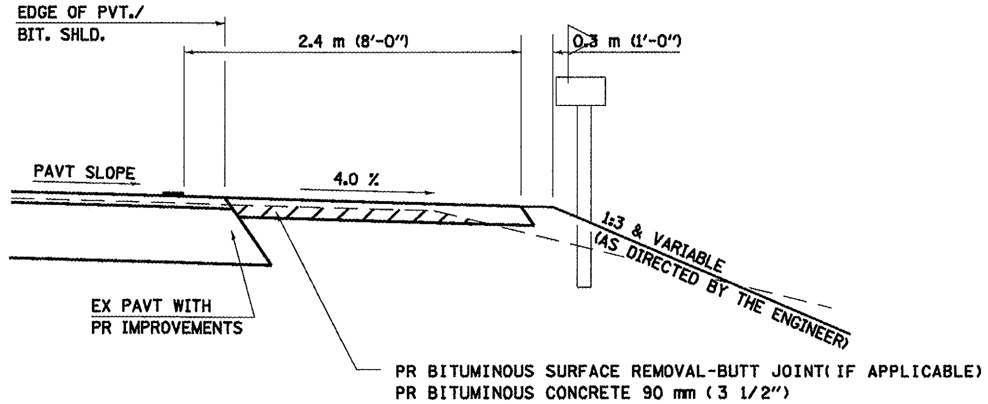
DETAILS OF MAILBOX TURNOUTS



PLAN - MAILBOX TURNOUTS

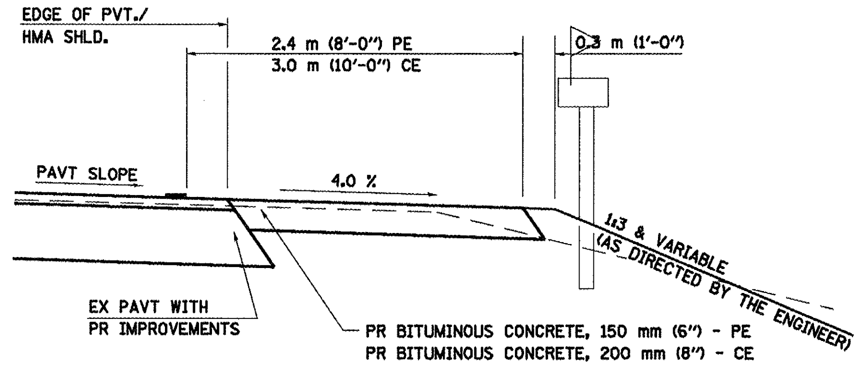


PLAN - COMBINED MAILBOX TURNOUT WITH TRAILING OR LEADING ENTRANCE



SECTION X-X THRU MAILBOX TURNOUT
ALSO APPLIES TO MAILBOX TURNOUTS COMBINED WITH
EX EARTH, AGGREGATE, OR BITUMINOUS PE & FE

(DETAIL APPLIES WHEN M.B. TURNOUT DOES NOT EXIST.
IF EXISTING, TREAT SAME AS ENTRANCE.)



SECTION X-X THRU MAILBOX TURNOUT
COMBINED WITH EX BITUMINOUS CONC & PC CONC PE & CE

(DETAIL APPLIES WHEN M.B. TURNOUT DOES NOT EXIST.
IF EXISTING, TREAT SAME AS ENTRANCE.)

NOTE 1 IF MORE THAN ONE MAILBOX IS PRESENT, DIMENSION FROM CENTER OF END MAILBOX.

NOTE 2 FOR ENTRANCE LAYOUT DIMENSIONS AND SECTIONS A-A & E-E REFER TO THE SCHEDULES IN THE PLANS.

NOTE 3 BOTH LT OR RT OFFSETS FOR MAILBOX SHOWN USE OFFSET DIMENSION PER SCHEDULE AND REFER TO LAYOUT SHOWN ON THE PLAN.

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

FILE NAME = S:\PROJ ENGR 1 (Negangard)\Dust Squad\FAP 662 (IL 4) Henderson pdfs\CADD Sheets\D6727 ENT.dgn	USER NAME = madoniavj	DESIGNED -	REVISED - 2/19/03 JCN
ENT PPP.DGN		DRAWN CADD	REVISED - 4/01/04 JCN
	PLOT SCALE = 40.0002 '/ IN.	CHECKED - JCN	REVISED -
	PLOT DATE = Aug-17-2009 04:07:06PM	DATE - FEBRUARY 23, 1999	REVISED -

Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL. Design Firm
No. 184-001907

DIST. 6 DETAILS FOR RURAL/URBAN ENT., MAILBOX
TURNOUT & SIDEROADS W/O CONC. GUTTER (3P-PROJ.)

SCALE: NONE	SHEET NO. 5 OF 6 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	62
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

ENTRANCE IMPROVEMENT SCHEDULE FOR RURAL / URBAN "PPP" PROJECTS

LOCATION	TYPE OF ENTRANCE	EX MATERIAL TYPE	WIDTH	RT OFFSET	LT OFFSET	LENGTH (FROM EDGE OF PVT/ HMA SHLD TO LIMITS OF IMPROVEMENT)	PR BIT. CONC. THICKNESS	HMA SURF. REM. - BUTT JOINT	P.C.C. SURF. REM. - BUTT JOINT	PREP OF BASE	AGG. BASE REPAIR	AGGREGATE BASE COURSE TY - B	BIT (P.C.)	AGG (P.C.	INCIDENTAL HMA SURF.
(LT / RT) (STA) (+)	(FE / PE / CE / MB) (RURAL / URBAN)	(EARTH / AGG. / BIT. / P.C.C.)	FOOT	FOOT	FOOT	FOOT	INCH	SQ. YD.	SQ. YD.	SQ. YD.	TON	TON	TON	TON	TON
RT STA 375+23	FE / RURAL	EARTH	•												
LT STA 675+25.5	FE / RURAL	EARTH	•												
RT STA 383+46.5	FE / RURAL	EARTH	•												
LT STA 383+47	FE / RURAL	EARTH	•												
RT STA 393+49.08	SIDEROAD	HMA.	46			10	1 3/4"	79							8.2
LT STA 395+52.92	SIDEROAD	HMA.	47			10	1 3/4"	67							8.6
RT STA 396+01.93	SIDEROAD	HMA.	44			10	1 3/4"	68							8.2
RT STA 396+65	FE / RURAL	EARTH	•												
LT STA 396+75.5	FE / RURAL	EARTH	•												
RT STA 415+23.9	FE / RURAL	AGG.	•												
LT STA 415+34.8	FE / RURAL	AGG.	•												
RT STA 421+22	FE / RURAL	EARTH	•												
LT STA 421+53.5	SIDEROAD	HMA.	144			10	1 3/4"	166							19.2
LT STA 424+94	CE / RURAL	AGG.	24			15	8"					2.8			11.9
RT STA 426+16	FE / RURAL	EARTH	•												
LT STA 437+24	FE / RURAL	EARTH	•												
LT STA 439+70	PE & MB / RURAL	HMA.	50		26	8	3 1/2"	38							11
RT STA 439+78	FE / RURAL	EARTH	•												
LT STA 440+97.5	FE / RURAL	EARTH	•												
RT STA 441+43	FE / RURAL	EARTH	•												
LT STA 442+73.5	PE & MB / RURAL	AGG.	14	14.2		30	3 1/2"								17.4
LT STA 444+75.5	PE & MB / RURAL	AGG.	16			34	3 1/2"								10.2
RT STA 457+13.5	PE & MB / RURAL	AGG.	56	19	17	10	3 1/2"								16.9
RT STA 461+16	PE / RURAL	AGG.	20			15	3 1/2"					3.6			3.3
RT STA 466+07	FE / RURAL	EARTH	•												
RT STA 466+07.5	FE / RURAL	EARTH	•												
LT STA 469+12.5	FE / RURAL	EARTH	•												
RT STA 470+82.5	PE & MB / RURAL	AGG.	14	24		8 / 15	3 1/2"					2.8			11.3
RT STA 472+03	PE / RURAL	AGG.	16			15	3 1/2"					3.1			3
LT STA 474+89	SIDEROAD	HMA.	29			10		41							6.6
RT STA 474+93.5	FE / RURAL	AGG.	•												
RT STA 475+47.5	CE / RURAL	AGG.	24			15	8"					2.8			11.9
LT STA 483+62	FE / RURAL	EARTH	•												
RT STA 488+54	FE / RURAL	EARTH	•												
RT STA 490+63	PE & MB / RURAL	AGG.	24		56	15	3 1/2"					5.9			17.0
LT STA 490+67	FE / RURAL	AGG.	•												
RT STA 493+17.5	FE / RURAL	EARTH	•												
LT STA 507+97	CE / RURAL	AGG.	35			15	8"	17							24.9
LT STA 508+88	CE / RURAL	HMA.	31			15	1 3/4"	79							5.0
RT STA 509+43.5	FE / RURAL	EARTH	•												
LT STA 509+82	CE / RURAL	HMA.	35			15	1 3/4"	68							5.4
LT STA 511+50	CE / RURAL	AGG.	35			15	8"								25.2
RT STA 511+51.7	MB / RURAL	HMA.	24	2	2	8	3 1/2"								8.6
RT STA 512+46	CE / RURAL	P.C.C.	26			15	1 3/4"		55						4.5
LT STA 512+69	CE / RURAL	AGG.	35			15	8"								25.2
TOTAL =								623	55			21.0			263.5

• FIELD ENTRANCES SHOWN FOR INFORMATIONAL PURPOSES ONLY. PROPOSED AGGREGATE SHOULDER, TYPE B TO CONTINUE THROUGH FIELD ENTRANCES.

FILE NAME = S:\PROJ ENGR 1 (Negangard)\Dust Squad\FAP 662 (IL 4) Henderson pdfs\CADD Sheets\D672 ENT.dgn	USER NAME = madoniavj	DESIGNED -	REVISED - 2/19/03 JCN	Allen Henderson & Associates, Inc.
ENT PPP.DGN	PLOT SCALE = 40.0002 '/ IN.	DRAWN - CADD	REVISED - 4/01/04 JCN	Civil and Structural Engineers Springfield, IL.
	PLOT DATE = Aug-17-2009 04:07:08PM	CHECKED - JCN	REVISED -	62703 Phone: (217)544-8033 IL. Design Firm
		DATE - FEBRUARY 23, 1999	REVISED -	No. 184-001907

DIST. 6 DETAILS FOR RURAL/URBAN ENT., MAILBOX TURNOUT & SIDEROADS W/O CONC. GUTTER (3P-PROJ.)

SCALE: NONE | SHEET NO. 6 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	63
		CONTRACT NO. 72765		

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

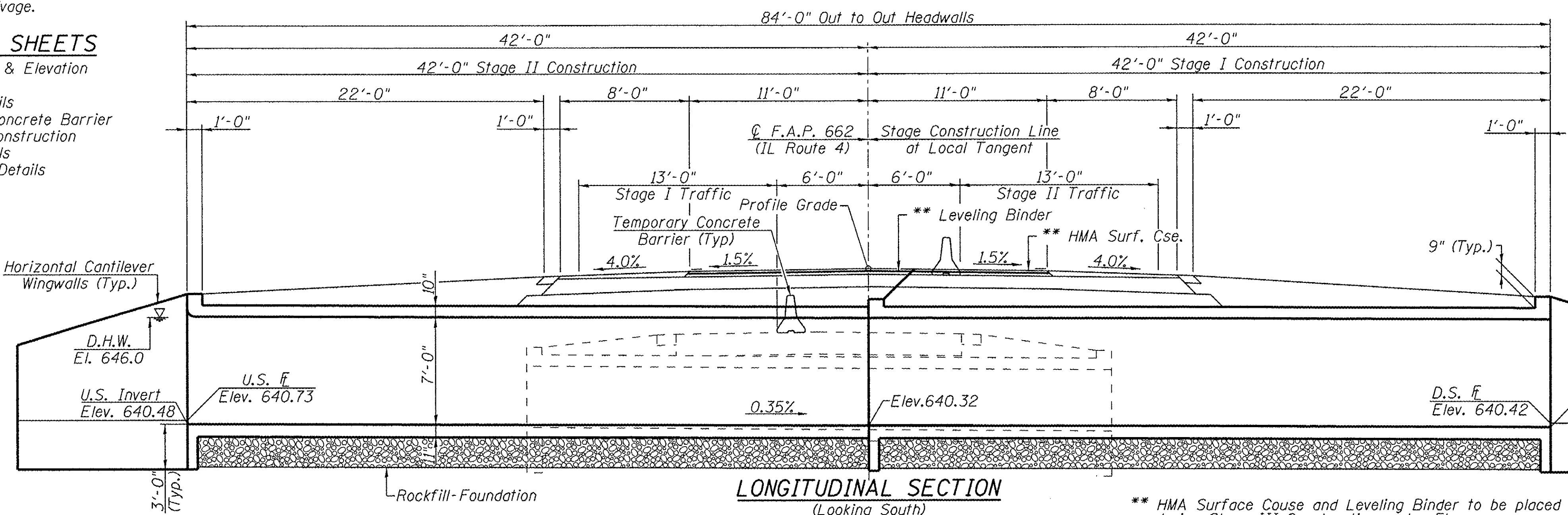
Benchmark: TJM #102: Chisled "□" on north end of west headwall. ±21' Rt. Sta. 449+69. El. 645.08

Existing Structure: S.N. 059-7004 built in 1957 is a single 10' x 4' R.C. box culvert with a culvert length of ±42'-1". Traffic to be maintained utilizing stage construction.

No salvage.

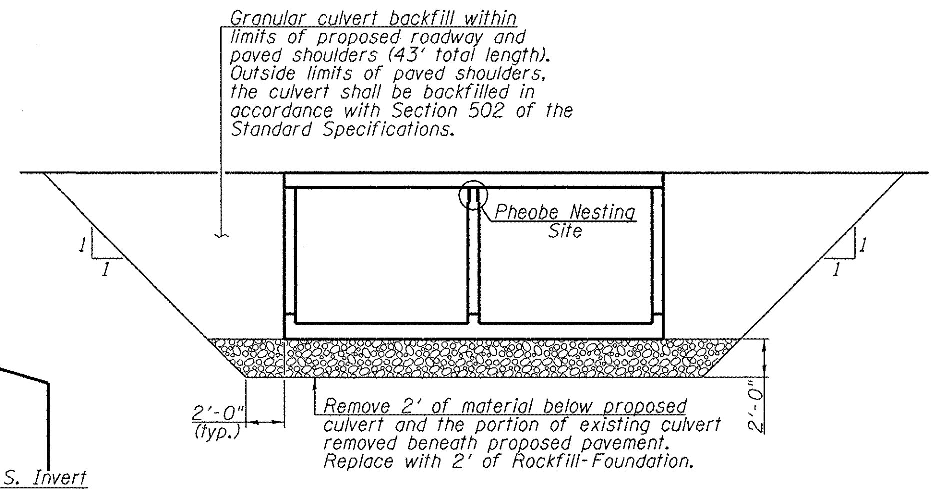
INDEX OF SHEETS

1. General Plan & Elevation
2. General Data
3. Staging Details
4. Temporary Concrete Barrier For Stage Construction
5-7. Culvert Details
8. Bar Splicer Details
9. Borings

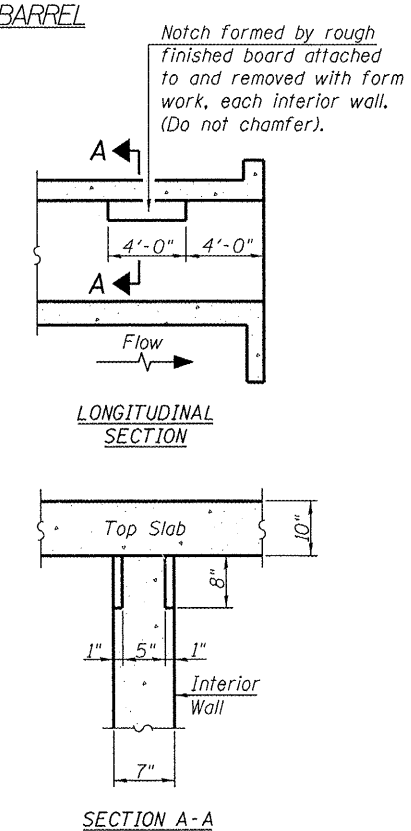


LONGITUDINAL SECTION
(Looking South)
(All dimensions at Rt. L's to ℄ Rdwy. at Local Tangent)

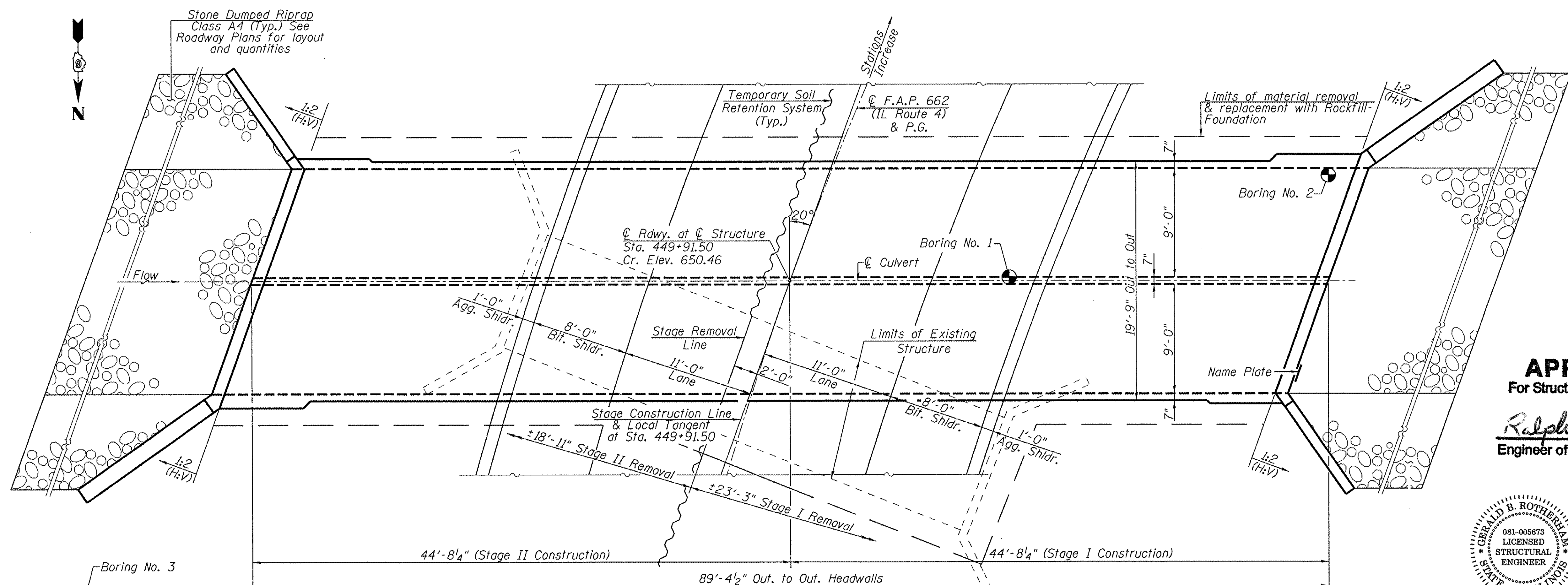
** HMA Surface Couse and Leveling Binder to be placed during Stage III Construction under Flaggers. See roadway plans for details.



SECTION THRU BARREL



PHOEBE NESTING SITE DETAILS
(Downstream End Only)



PLAN

EXIST. CURVE 53
PI STA. = 450+24.67
Δ = 2° 07' 32" (RT)
D = 0° 46' 32"
R = 7386.61'
T = 137.00'
L = 273.97'
E = 1.27'
P.C. STA. = 448+87.67
P.T. STA. = 451+61.64
No Superelevation Required

APPROVED
For Structural Adequacy Only
Ralph E. Anderson
Engineer of Bridges & Structures
(TJD)

GERALD B. ROTHERHAM 081-005673 LICENSED STRUCTURAL ENGINEER STATE OF ILLINOIS

Gerald B. Rotherham
Date: 8/31/2009

GENERAL PLAN & ELEVATION
F.A.P. ROUTE 662 (IL. ROUTE 4)
SECTION D(W-3,RS-11)
MACOUPIN COUNTY
STA. 449+91.50
STRUCTURE NO. 059-7101

Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL. Design Firm
No. 184-001907

SHEET NO. 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9 SHEETS	662	D(W-3,RS-11,CR)	MACOUPIN	102	64
			CONTRACT NO. 72765		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TOTAL BILL OF MATERIAL

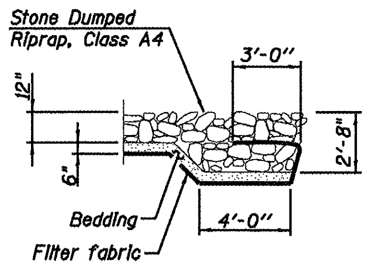
Item	Unit	Quantity
Concrete Box Culverts	Cu. Yd.	182.3
Reinforcement Bars	Pound	41360
Granular Culvert Backfill	Cu. Yd.	234
Temporary Soil Retention System	Sq. Ft.	399
Name Plates	Each	1
Rockfill-Foundation	Ton	354
Bar Splicers	Each	101
Removal of Existing Structures	Each	1

WATERWAY INFORMATION

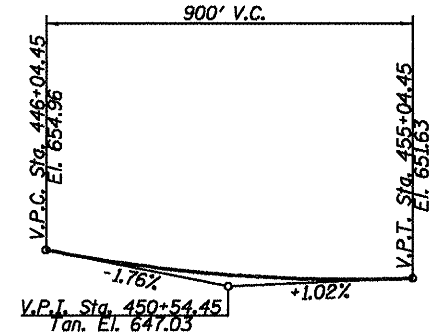
Drainage Area = 1.76 Sq. Mi.					Ex. Low Grade Elev. 646.18 ft. @ Sta. 450+00 Pr. Low Grade Elev. 649.95 ft. @ Sta. 452+00					
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Natural H.W.E. Exist.	Natural H.W.E. Prop.	Head - ft. Exist.	Head - ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	491	31.6	82.1	645.2	645.3	0.1	0.6	645.3	645.9
Design	50	787	31.6	94.3	645.9	646.0	0.4	1.2	646.3	647.2
Base	100	919	31.6	98.6	646.1	646.2	0.5	1.5	646.6	647.7
Overtopping	-									
Max. Calc.	500	1240	31.6	107.6	646.6	646.7	0.6	2.4	647.3	649.1

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation	D.S. Invert	U.S. Invert
	637.2	637.5



RIPRAP FLANK DETAIL



PROFILE GRADE
(Along ℄ Rdwy.)

GENERAL NOTES

Reinforcement bars shall conform to the requirements of A.S.T.M. A 706, Grade 60. See Special Provisions.

For backfilling and embankment, see Special Provisions.

Cast in place concrete exposed edges shall be beveled ¾".

Precast alternative is not allowed.

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

LOADING HS20-44

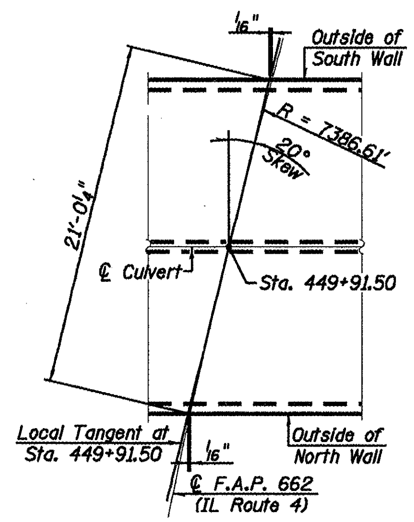
Allow 50#/sq.ft. for future wearing surface

DESIGN SPECIFICATIONS

2002 A.A.S.H.T.O. Standard Specifications for Highway Bridges.

DESIGN STRESSES
FIELD UNITS

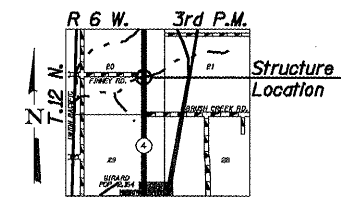
f'c = 3,500 psi
fy = 60,000 psi (reinforcement)



OFFSET SKETCH

STA. 449+91.50
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RTE. 662-SECTION D(W-3,RS-11)
LOADING HS20
STR. NO. 059-7101

NAME PLATE
(Standard 515001)



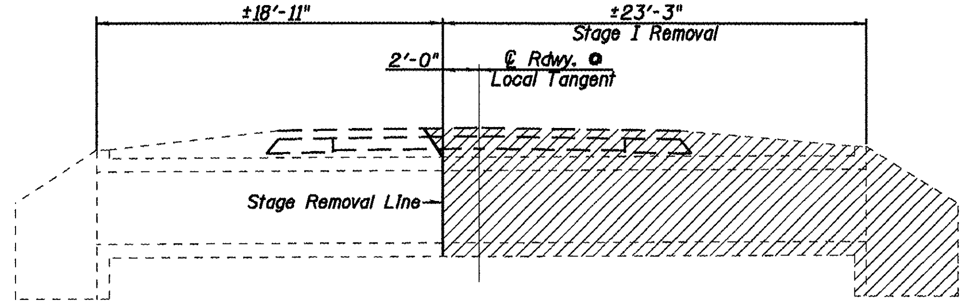
LOCATION SKETCH

GENERAL DATA
STRUCTURE NO. 059-7101

Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL. Design Firm
No. 184-001907

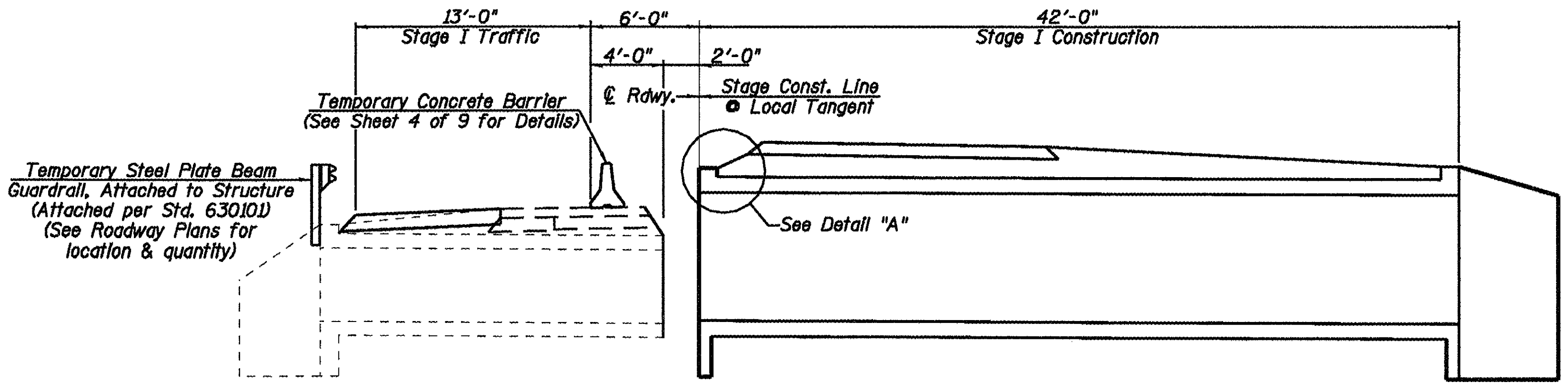
SHEET NO. 2
9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	65
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



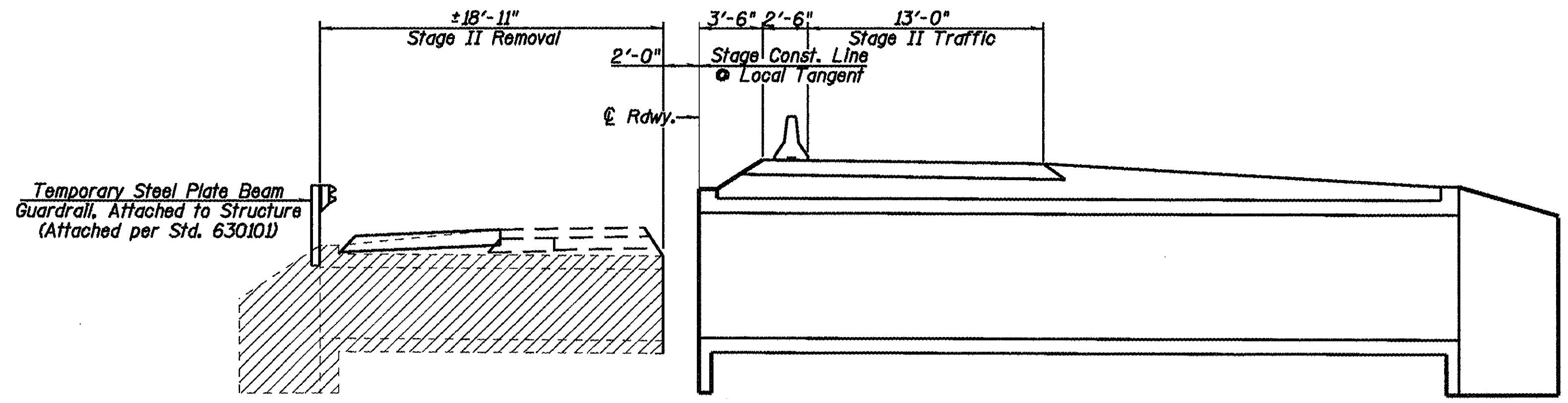
STAGE I REMOVAL

(Dimensions are at Rt. L's to ℄ Rdwy. @ Local Tangent)



STAGE I CONSTRUCTION

(Dimensions are at Rt. L's to ℄ Rdwy. @ Local Tangent)



STAGE II REMOVAL

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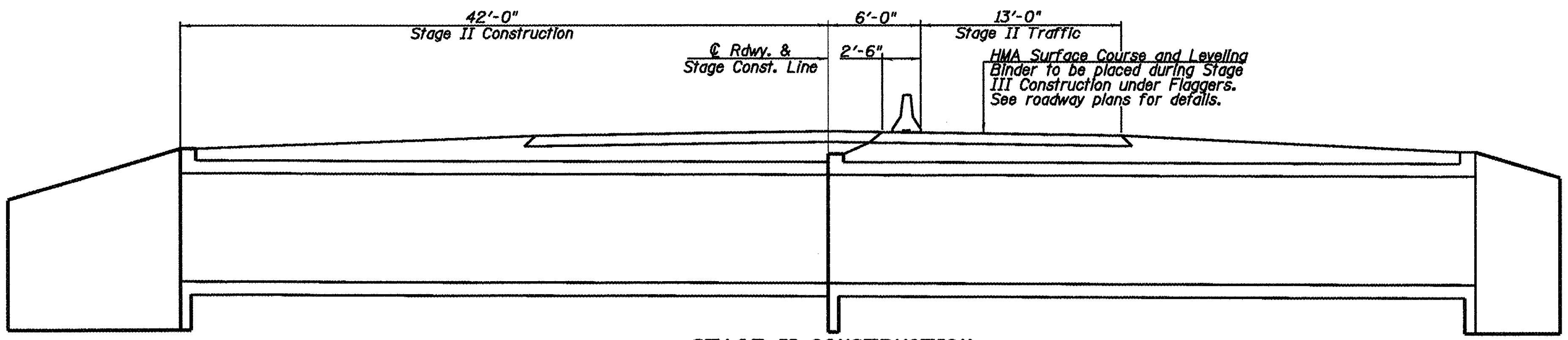
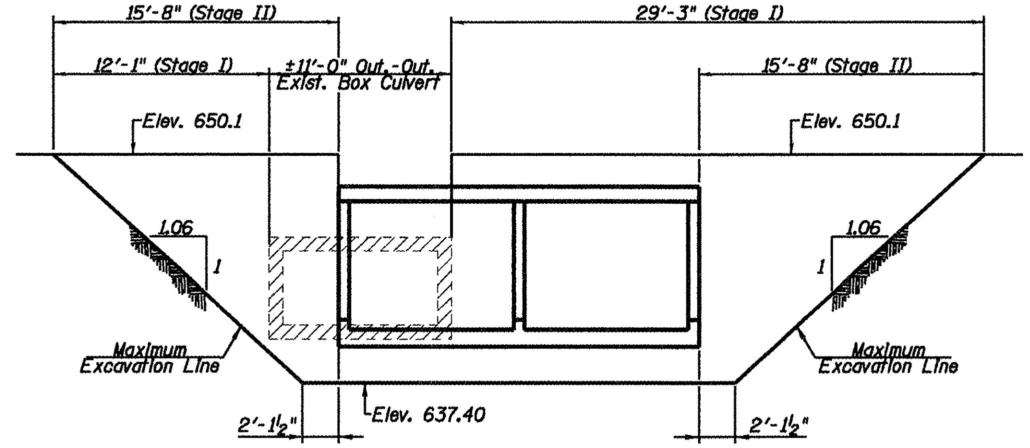


STAGE II CONSTRUCTION

(Dimensions are at Rt. L's to ℄ Rdwy. @ Local Tangent)



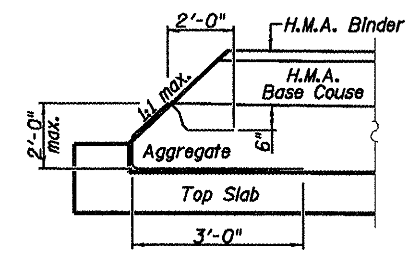
TEMPORARY SOIL RETENTION SYSTEM

(All dimensions along ℄ Rdwy. - Looking East)

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

Estimated Exposed Area to be retained: 399 sq. ft.

Notes: Hatched areas indicate "Removal of Existing Structures".
See Roadway Plans for quantity of Temporary Concrete Barrier.
All Elevations are looking South.



DETAIL "A"

Geotextile shall be woven meeting the requirements of Article 1080.02 for ground stabilization. Cost included with Temporary Soil Retention System.

STAGING DETAILS
STRUCTURE NO. 059-7101

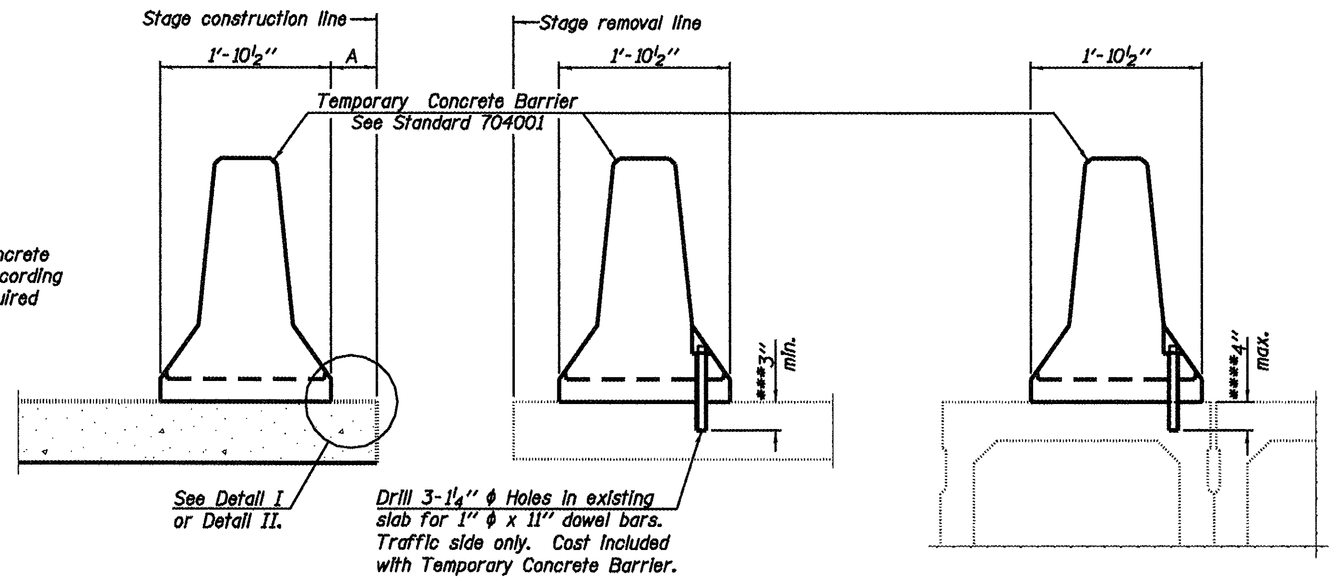
Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL. Design Firm
No. 184-001907

SHEET NO. 3
9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	66
		CONTRACT NO. 72765		

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

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



SECTIONS THRU SLAB OR DECK BEAM

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel ℙ to the top layer of couplers with 2-⅝" ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

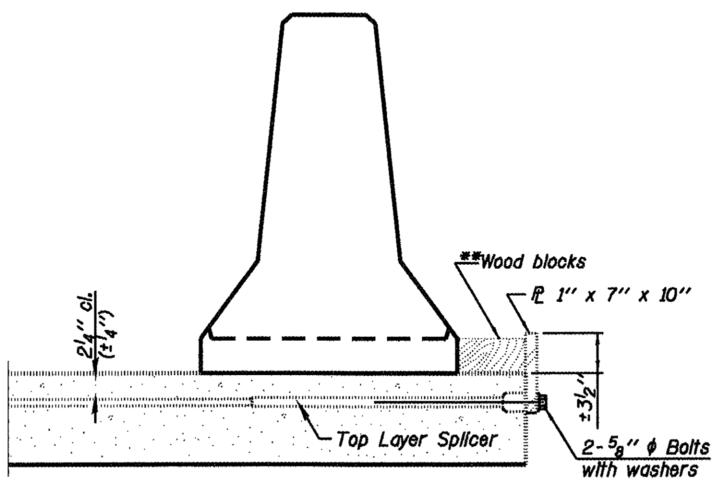
Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x 10" steel ℙ to the concrete slab or concrete wearing surface with 2-⅝" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier.

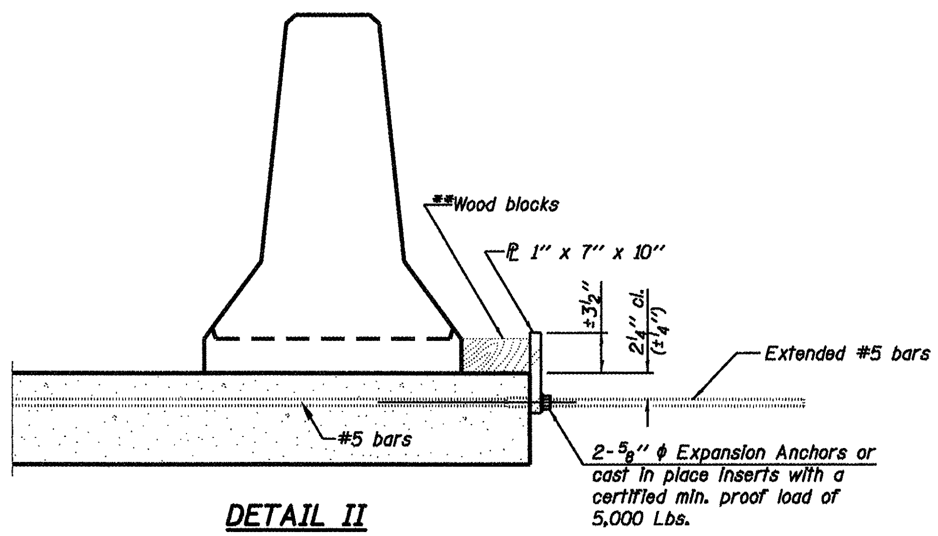
The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

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

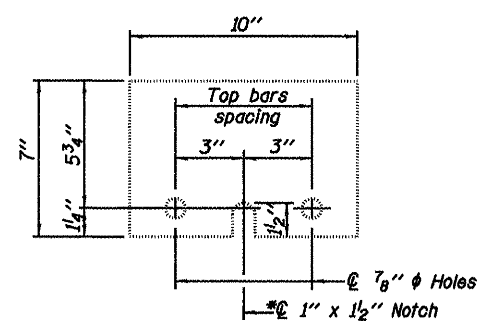
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER ℙ 1" x 7" x 10"

* Required only with Detail II

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

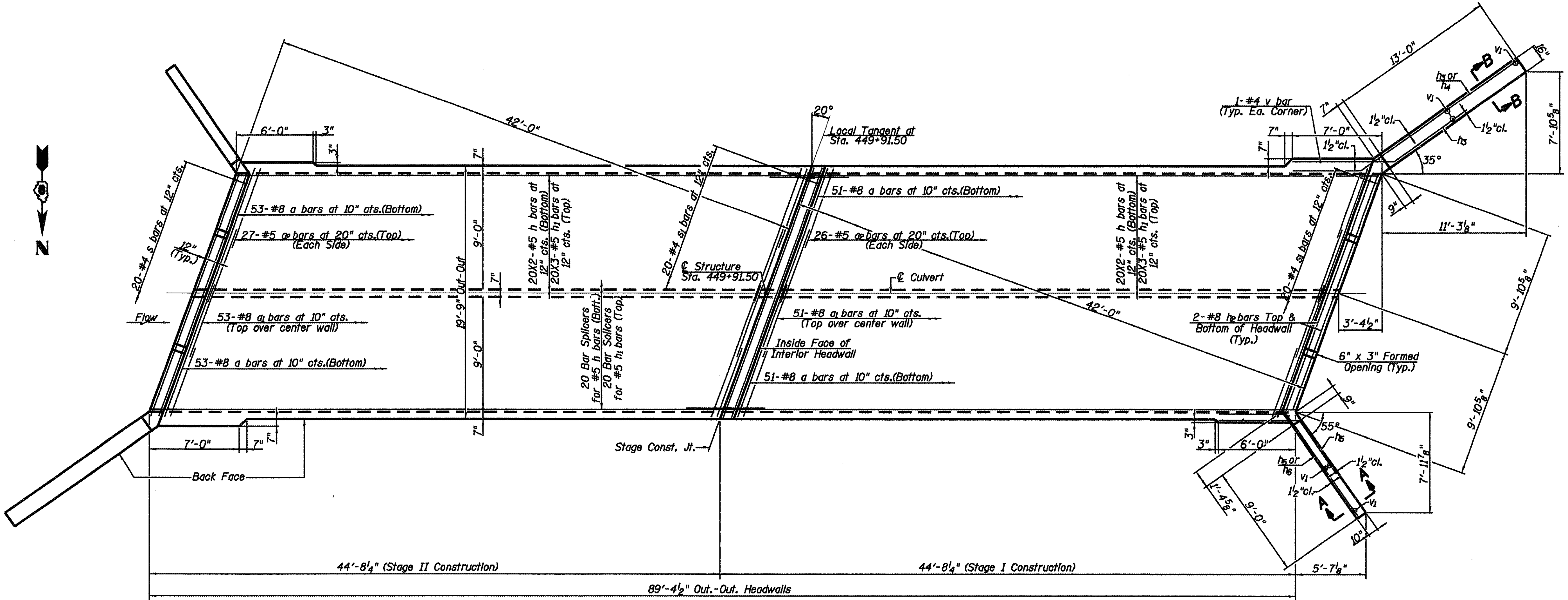
TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION STRUCTURE NO. 059-7101

Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL. Design Firm No. 184-001907

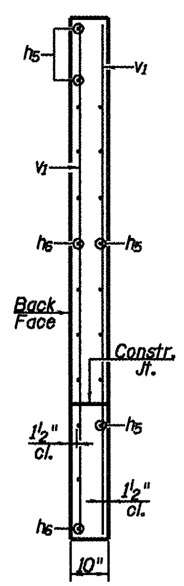
SHEET NO. 4
9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	67
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

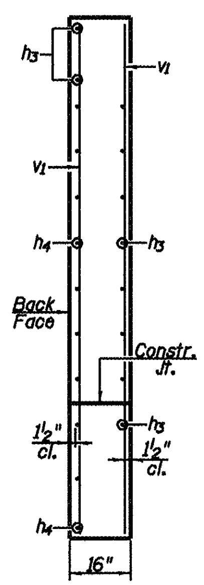
R-27 10-1-08



PLAN - TOP SLAB



SECTION A-A



SECTION B-B

MIN. BAR LAPS
#5 bars = 1'-8"
#8 bars = 4'-6"

Bars indicated thus 20x2 #5 etc. indicates 20 lines of bars with 2 lengths per line.

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.

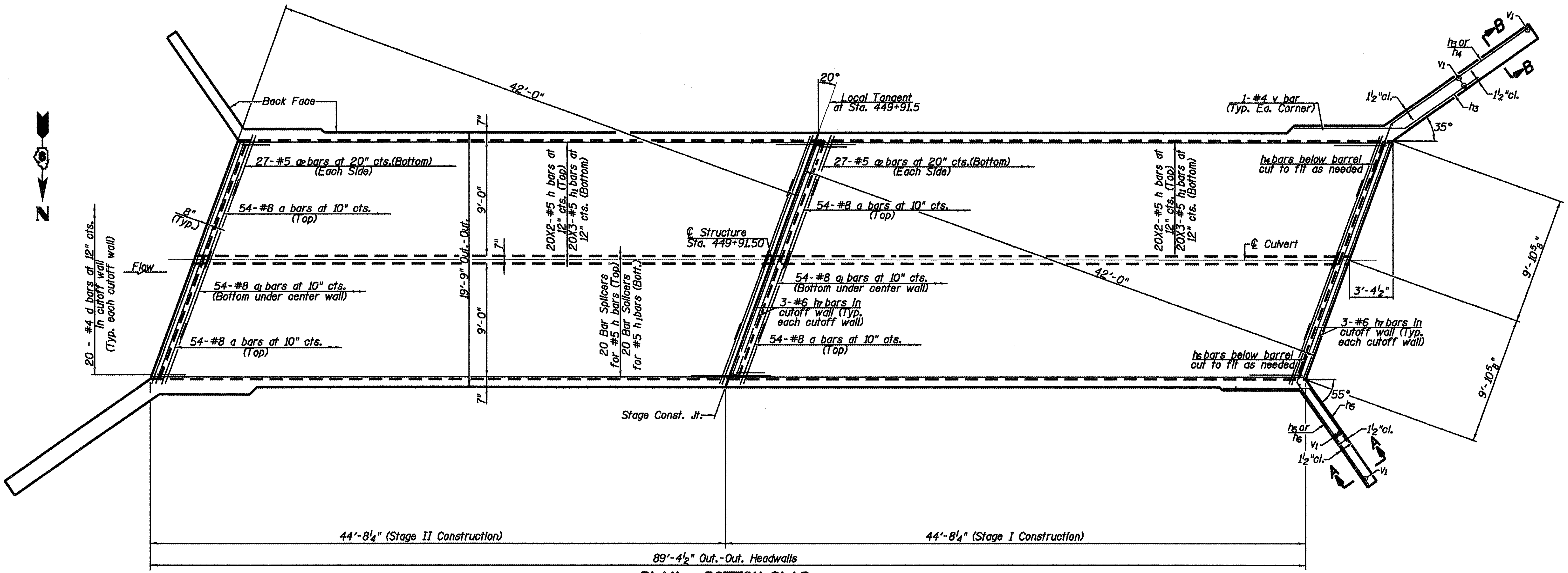
CULVERT DETAILS
STRUCTURE NO. 059-7101

Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL. Design Firm No. 184-001907

SHEET NO. 5
9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	68
		CONTRACT NO. 72765		

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



PLAN - BOTTOM SLAB

MIN. BAR LAPS

#5 bars = 1'-8"
#8 bars = 4'-6"

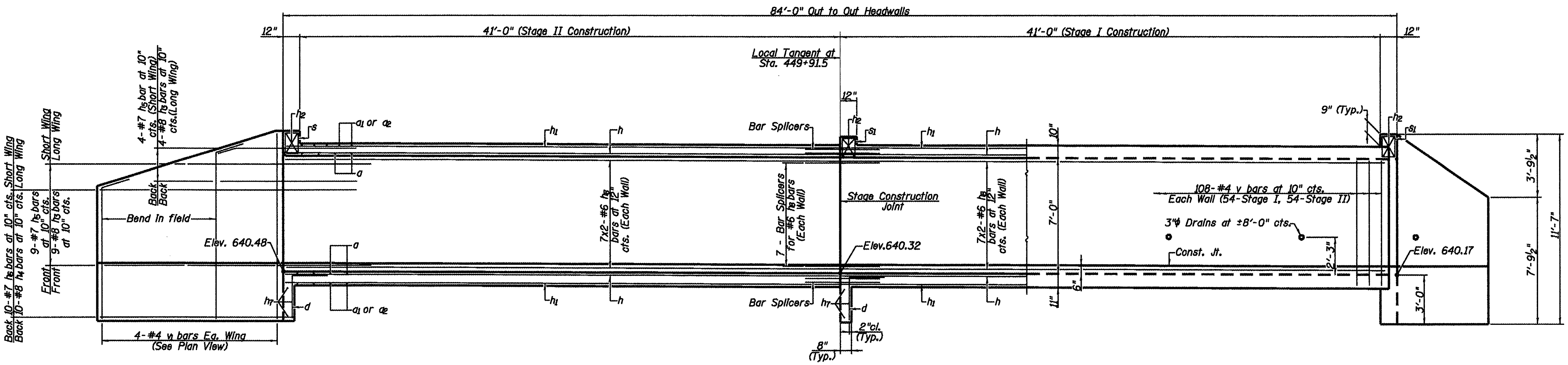
For Section A-A & B-B see Sheet 5 of 9.

Bars indicated thus 20 x 2 #5 etc. indicates 20 lines of bars with 2 lengths per line.

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.

CULVERT DETAILS
STRUCTURE NO. 059-7101

Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL. Design Firm No. 184-001907	SHEET NO. 6 / 9 SHEETS	F.A.P. RTE. 662	SECTION D(W-3,RS-11,CR)	COUNTY MACOUPIN	TOTAL SHEETS 102	SHEET NO. 69
				CONTRACT NO. 72765		
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

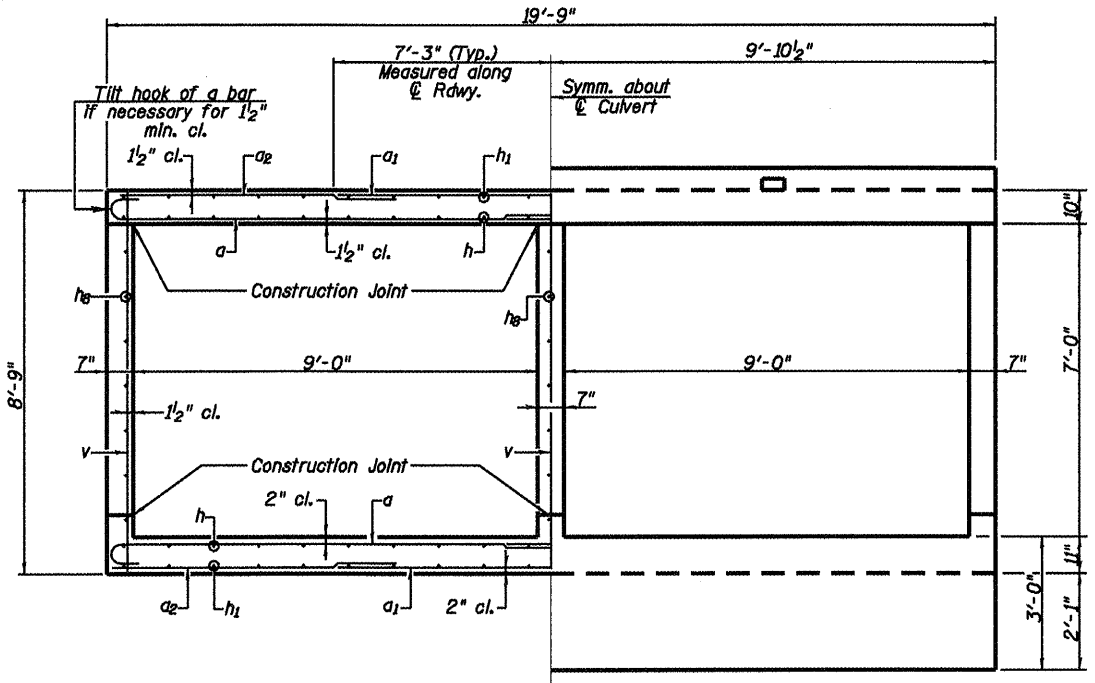


LONGITUDINAL SECTION

(Dimensions are at Rt. L's to ℄ Rdwy. at Local Tangent)
(Looking South)

MIN. BAR LAPS

#6 bars = 2'-0"

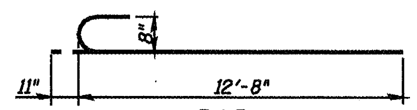


HALF SECTION THRU BARRELS

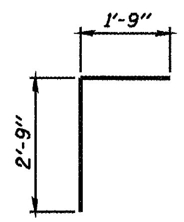
(Dimensions are at Rt. L's unless otherwise noted)

HALF END ELEVATION

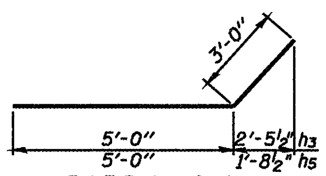
(Dimensions are at Rt. L's unless otherwise noted)



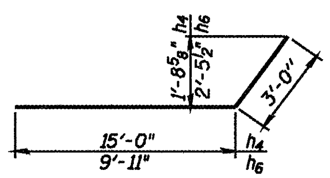
BAR a



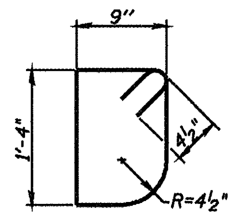
BAR d



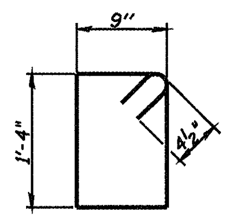
BARS h_3 & h_5



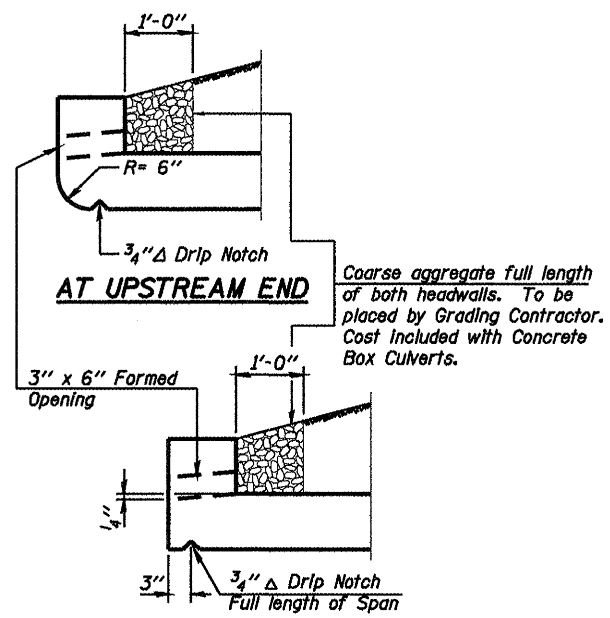
BARS h_4 & h_6



BAR s



BAR s_1



DRAIN DETAIL

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	424	#8	13'-7"	
a_1	212	#8	14'-6"	
a_2	214	#5	5'-0"	
d	60	#4	4'-6"	
h	160	#5	23'-0"	
h_1	240	#5	16'-6"	
h_2	12	#8	20'-10"	
h_3	26	#8	8'-0"	
h_4	20	#8	18'-0"	
h_5	26	#7	8'-0"	
h_6	20	#7	12'-11"	
h_7	9	#6	20'-10"	
h_8	84	#6	23'-2"	
s	20	#4	4'-9"	
s_1	40	#4	4'-11"	
v	328	#4	8'-5"	
v_1	16	#4	11'-3"	
Concrete Box Culverts			Cu. Yd.	182.3
Reinforcement Bars			Pound	41360

Bars indicated thus 7 x 2 - #6 etc. indicates 7 lines of bars with 2 lengths per line.

CULVERT DETAILS STRUCTURE NO. 059-7101

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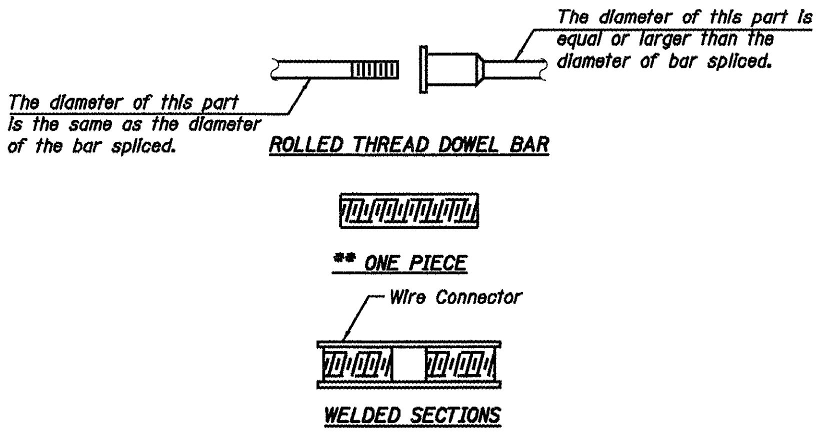
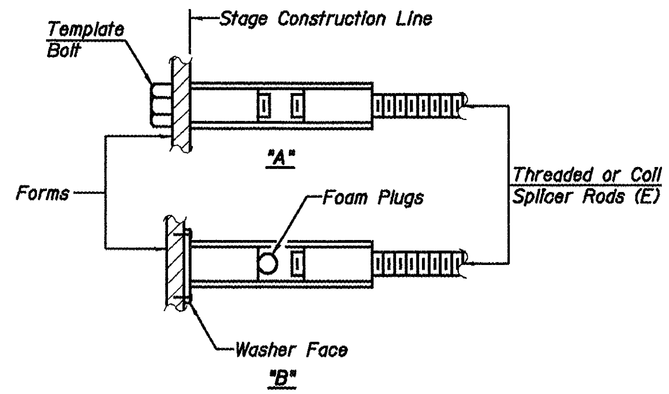
SHEET NO. 7
9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	70
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



BAR SPLICER ASSEMBLY ALTERNATIVES

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



INSTALLATION AND SETTING METHODS

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

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

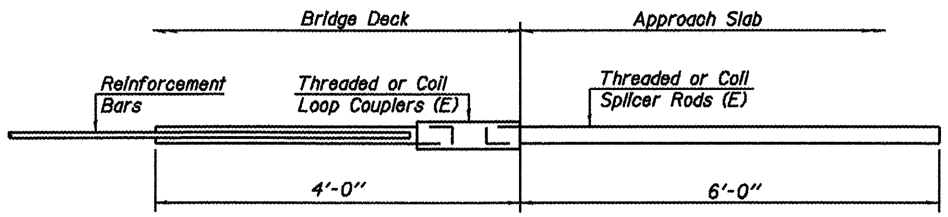
① Minimum Capacity (Tension in kips) $= 1.25 \times fy \times A_t$

② Minimum *Pull-out Strength (Tension in kips) $= 0.66 \times fy \times A_t$

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

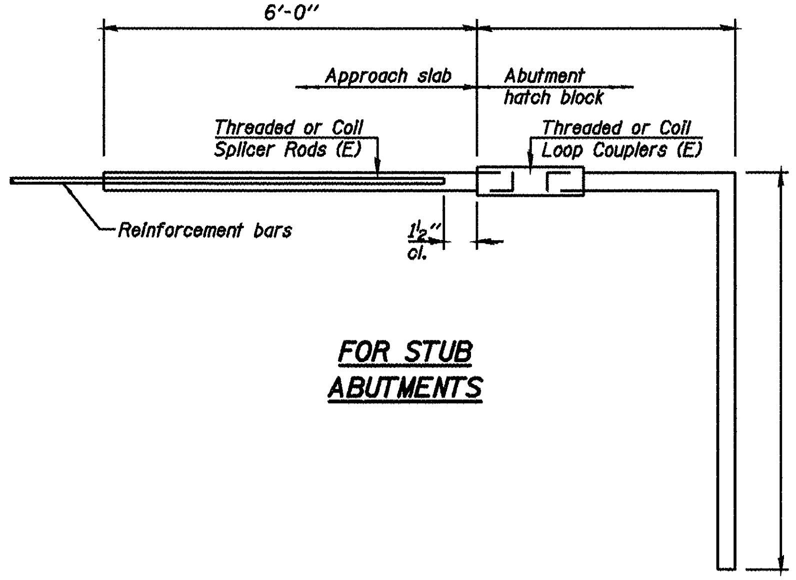
BAR SPLICER ASSEMBLIES

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



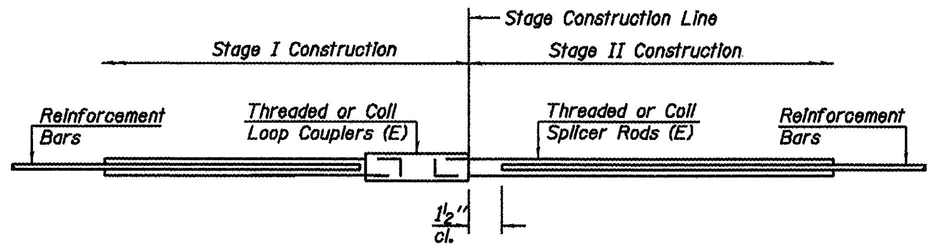
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

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



FOR STUB ABUTMENTS

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



STANDARD

Bar Size	No. Assemblies Required	Location
#5	80	Top & Bott. Slab
#6	21	Walls

BAR SPLICER DETAILS
STRUCTURE NO. 059-7101

BSD-1 10-1-08

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SHEET NO. 8
9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	71
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Illinois Department of Transportation

Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1

Date 5/22/09

ROUTE FAP 662 DESCRIPTION IL 4 Over Tributary of East Fork Otter Creek LOGGED BY M. Tappan

SECTION D(W-3,RS-11) LOCATION SE 1/4, SEC. 20, TWP. 12 N, RNG. 6 W, 3 PM

COUNTY Macoupin DRILLING METHOD HSA HAMMER TYPE 140 lb Auto

STRUCT. NO. 059-7004 Ex / 059-7101 Pr
Station 449+92

BORING NO. 1
Station 449+98
Offset 17.0ft RT
Ground Surface Elev. 645.3 ft

Surface Water Elev. 641.8 ft
Stream Bed Elev. 640.8 ft

Groundwater Elev.:
First Encounter 631.8 ft
Upon Completion 628.3 ft
After ___ Hrs. Plugged ft

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown and Black SILTY CLAY (Fill)		1 / 2 / 3	0.7	21
641.80 — SILTY CLAY, Grey Very Moist	-5	0 / 1 / 1	0.4 B	26
Very Dark Grey Very Moist		0 / 1 / 2	0.4 B	31
Black Moist	-10	1 / 2 / 2	0.6 B	27
Very Dark Grey Very Moist		0 / 0 / 1	0.2 B	23
631.00 — Grey SAND, Dirty Fine, Free Water	-15	0 / 0 / 1		
Medium to Coarse with Some Fine Gravel		0 / 2 / 3		
627.30 — Grey Moist CLAY LOAM (Till)	-20	1 / 4 / 5	4.3 B	12
Grey Moist CLAY LOAM (Till) (continued)		1 / 5 / 5	3.3 B	14
	-25	2 / 4 / 5	2.5 P	17
Olive Brown and Grey Moist Clay Loam (Till)	-30	2 / 6 / 9	3.9 B	15
612.30 — Light Blue Grey Moist Clayey SHALE		2 / 100/4"		15
610.80 — Boring Completed	-35			

Refer Elevation to BM TJM#102=685.1 ft

Refer Station to BM TJM#102 = 449+82 21 ft RT Increase to South

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation

Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1

Date 5/29/09

ROUTE FAP 662 DESCRIPTION IL 4 Over Tributary of East Fork Otter Creek LOGGED BY M. Tappan

SECTION D(W-3,RS-11) LOCATION SE 1/4, SEC. 20, TWP. 12 N, RNG. 6 W, 3 PM

COUNTY Macoupin DRILLING METHOD HSA HAMMER TYPE 140 lb Auto

STRUCT. NO. 059-7004 Ex / 059-7101 Pr
Station 449+82

BORING NO. 2
Station 450+15
Offset 39.0ft RT
Ground Surface Elev. 644.0 ft

Surface Water Elev. 641.8 ft
Stream Bed Elev. 640.6 ft

Groundwater Elev.:
First Encounter No Encounter ft
Upon Completion 632.6 ft
After ___ Hrs. Plugged ft

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Grey Very Moist SILTY CLAY LOAM		W / O / H	0.1 B	25
641.50 — Very Moist SILTY CLAY, Dark Grey	-5	0 / 0 / 0	0.1 B	29
Black		0 / 0 / 2	0.6 B	25
Dark Grey	-10	W / O / H	0.0	25
633.00 — Olive Brown and Grey Moist SILT		2 / 2 / 4	2.8 B-10	18
631.10 — Grey Wet SAND LOAM	-15	1 / 1 / 1	0.3 B	11
629.00 — Boring Completed	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation

Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1

Date 5/29/09

ROUTE FAP 662 DESCRIPTION IL 4 Over Tributary of East Fork Otter Creek LOGGED BY M. Tappan

SECTION D(W-3,RS-11) LOCATION SE 1/4, SEC. 20, TWP. 12 N, RNG. 6 W, 3 PM

COUNTY Macoupin DRILLING METHOD HSA HAMMER TYPE 140 lb Auto

STRUCT. NO. 059-7004 Ex / 059-7101 Pr
Station 449+82

BORING NO. 3
Station 449+45
Offset 49.0ft LT
Ground Surface Elev. 644.6 ft

Surface Water Elev. 641.8 ft
Stream Bed Elev. 640.6 ft

Groundwater Elev.:
First Encounter 635.6 ft
Upon Completion Plugged ft
After ___ Hrs. Plugged ft

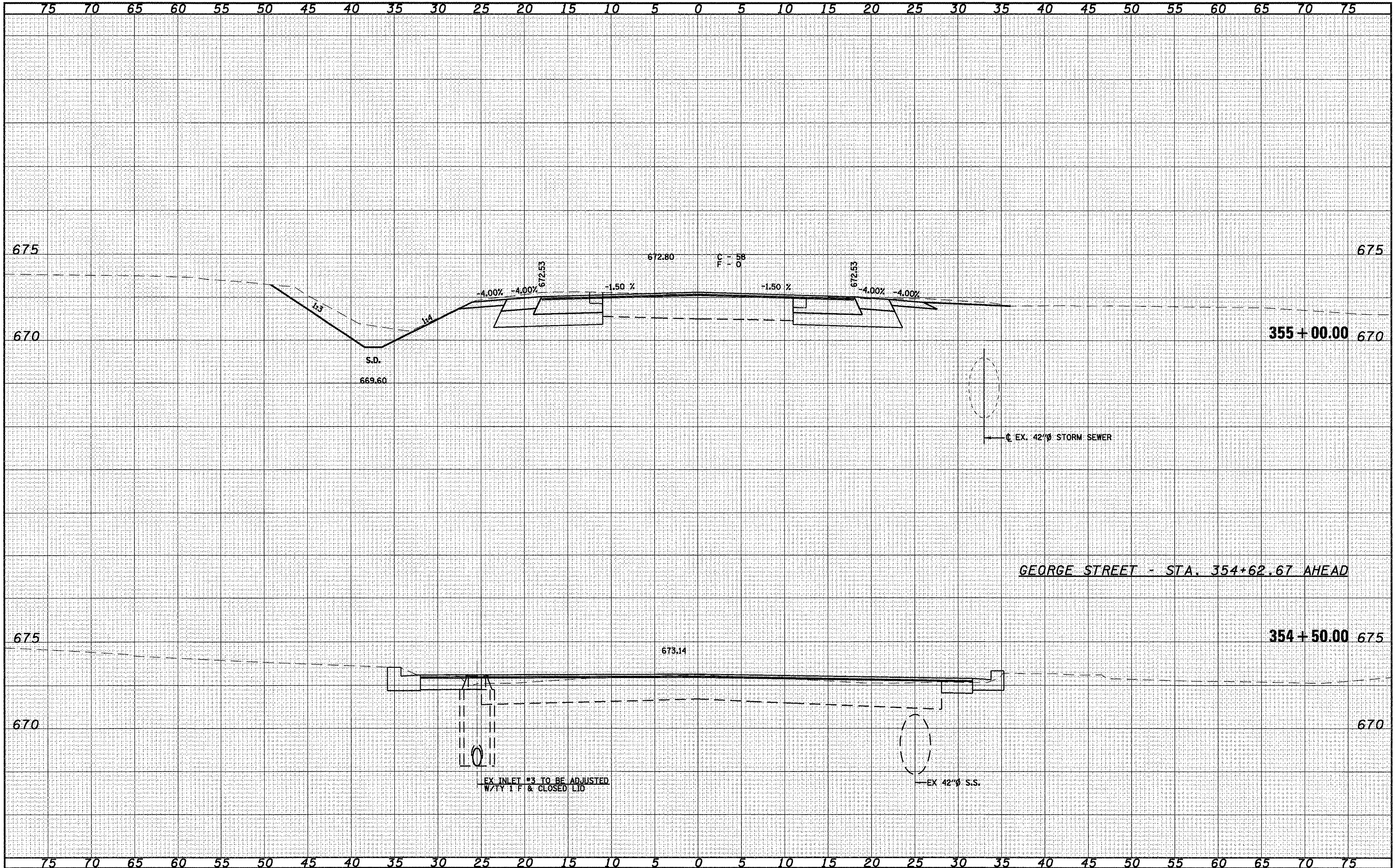
Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY CLAY, Very Dark Grey Moist		0 / 2 / 2	1.5 B	24
Black Moist	-5	0 / 1 / 2	1.0 B	22
Grey Moist		0 / 2 / 2	0.9 B	23
Grey Very Moist, Free Water	-10	W / O / H	0.1 B	25
633.00 — Grey Wet LOAM		W / O / H	0.0 B	24
631.00 — Grey Moist CLAY LOAM (Till)	-15	1 / 2 / 4	1.1 B	19
628.00 — Boring Completed	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

BORINGS
STRUCTURE NO. 059-7101

Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL. Design Firm
No. 184-001907

SHEET NO. 9	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9 SHEETS	662	D(W-3,RS-11,CR)	MACOUPIN	102	72
			CONTRACT NO. 72765		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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BY				
DATE				

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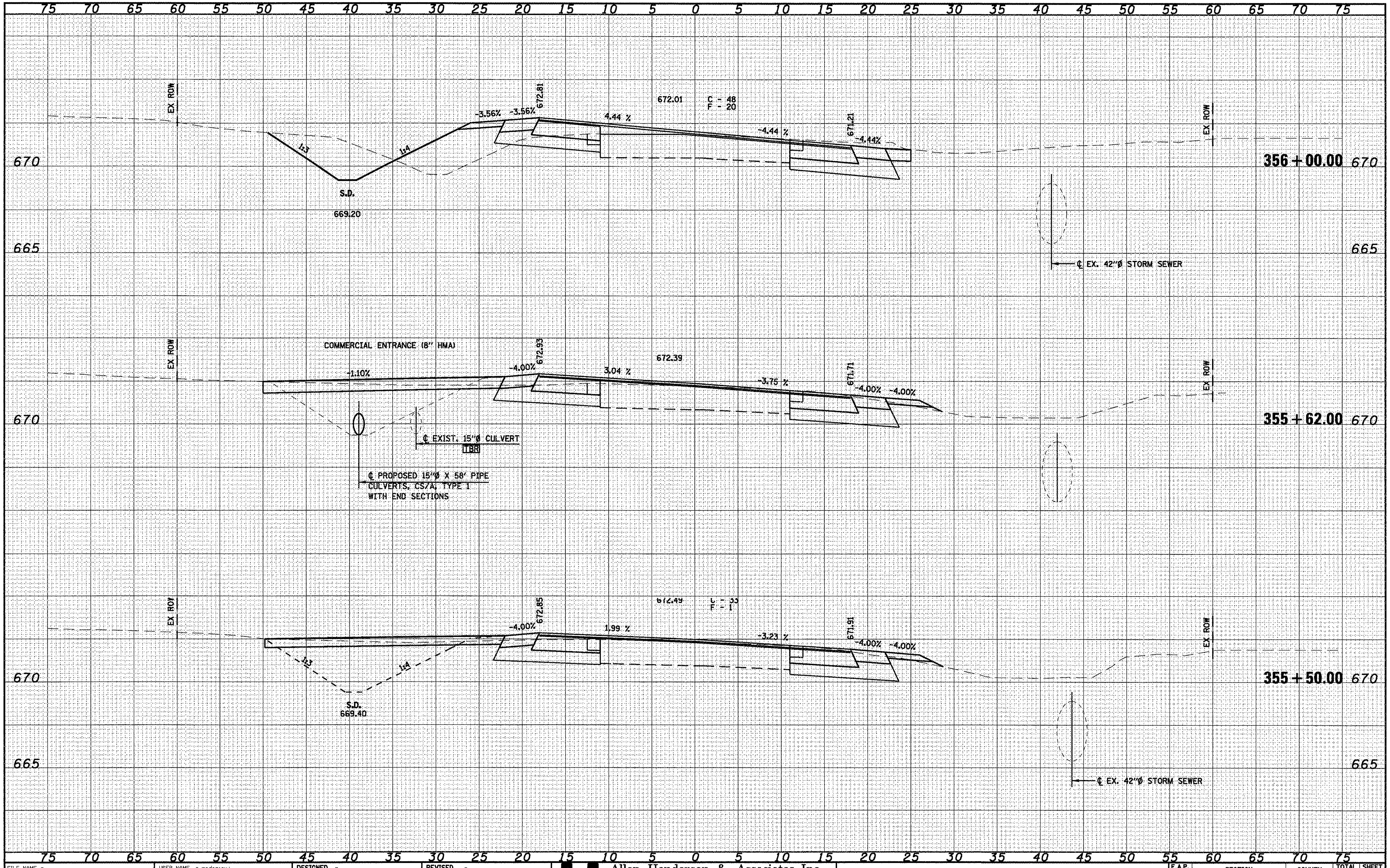
SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED
BY				
DATE				



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No. 184-001907

CROSS SECTIONS

SCALE: | SHEET NO. 2 OF 19 SHEETS | STA. 355+50.00 TO STA. 356+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	74

CONTRACT NO. 72765

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

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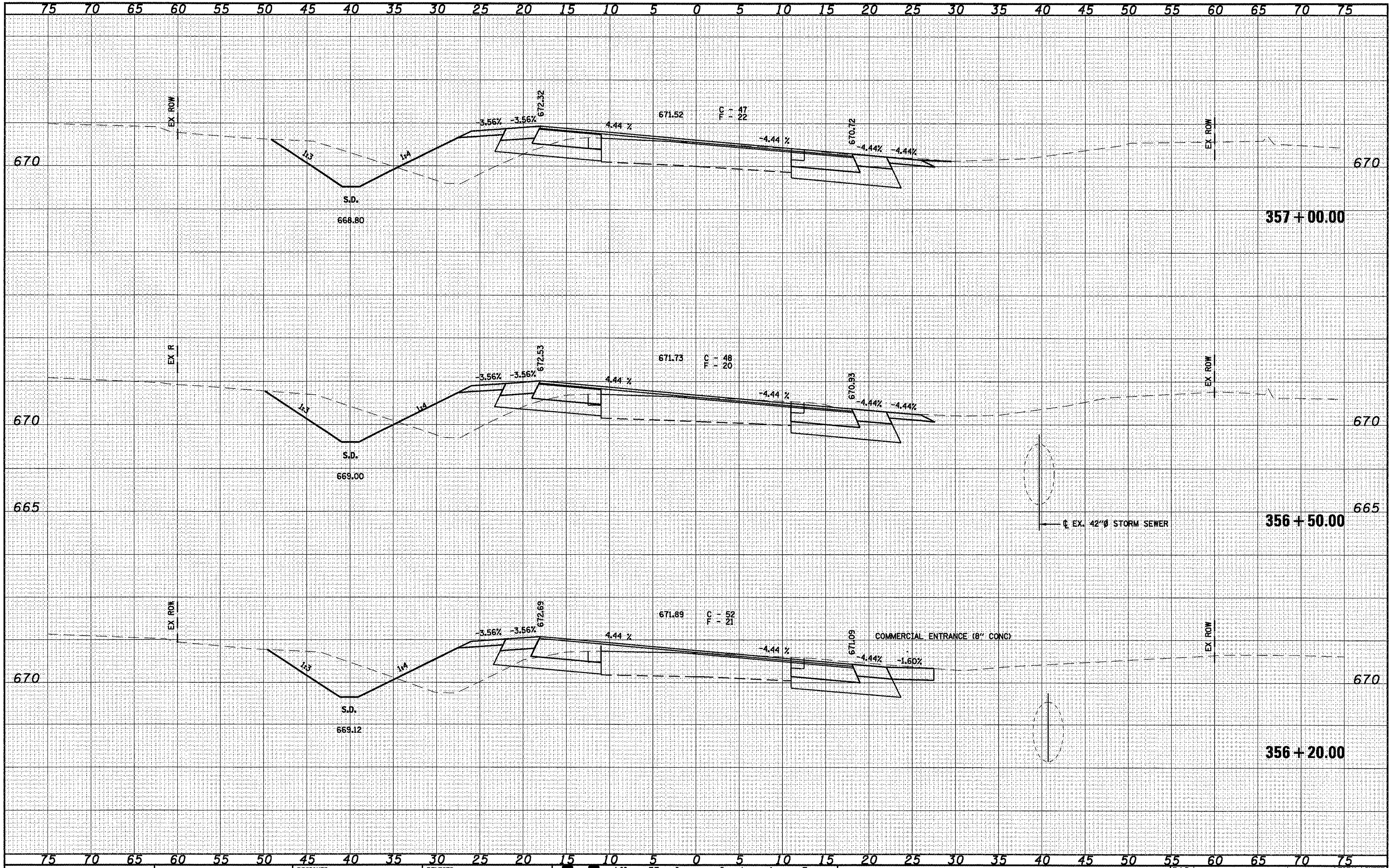

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Civil and Structural Engineers Springfield, IL.
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No. 184-001907

CROSS SECTIONS

SCALE: | SHEET NO. 3 OF 19 SHEETS | STA. 356+20.00 TO STA. 357+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	75

CONTRACT NO. 72765

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

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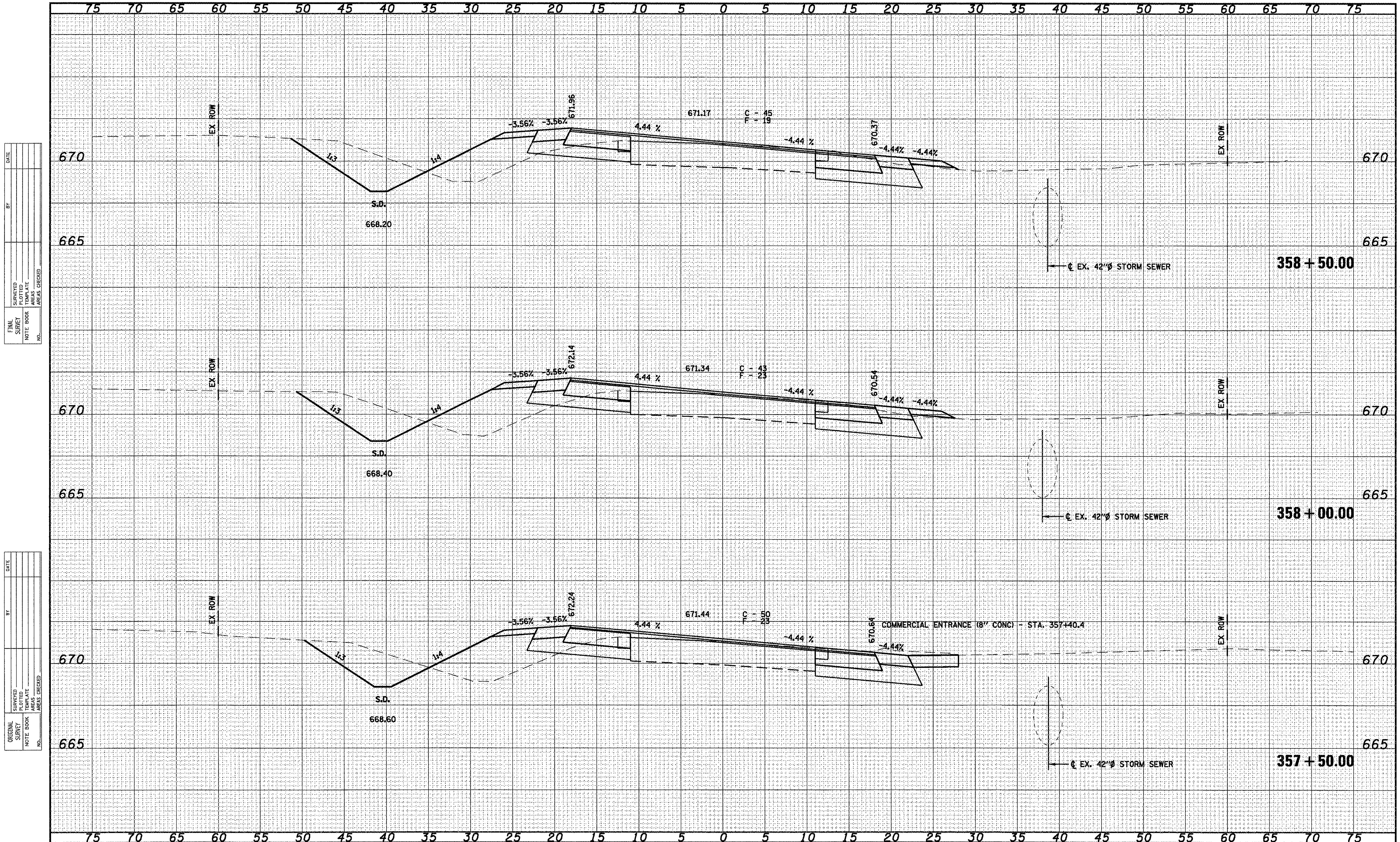

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No. 184-001907

CROSS SECTIONS

SCALE: | SHEET NO. 4 OF 19 SHEETS | STA. 357+50.00 TO STA. 358+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	76
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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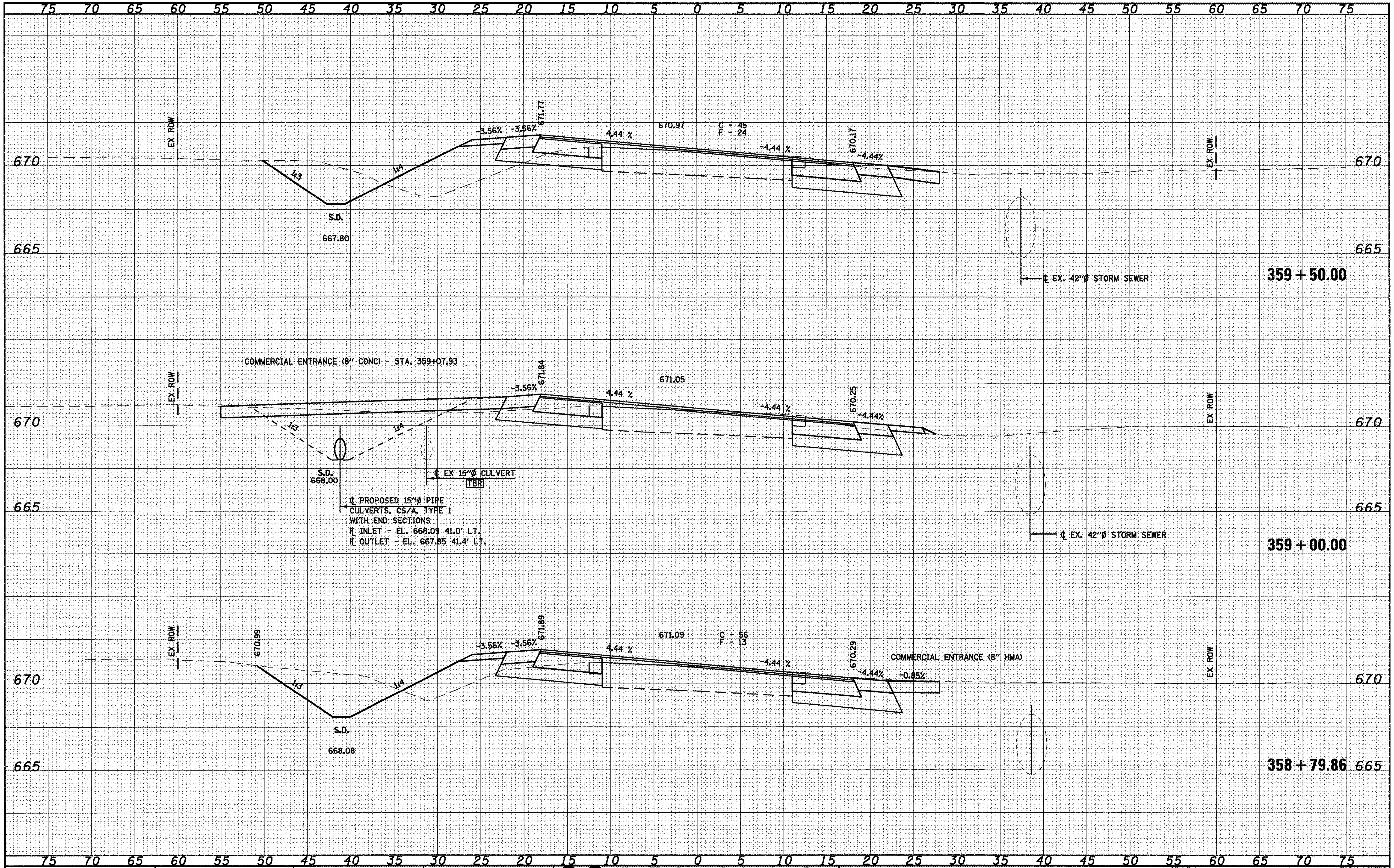

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Civil and Structural Engineers Springfield, IL.
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No. 184-001907

CROSS SECTIONS

SCALE:	SHEET NO. 5 OF 19 SHEETS	STA. 358+79.86	TO STA. 359+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	77
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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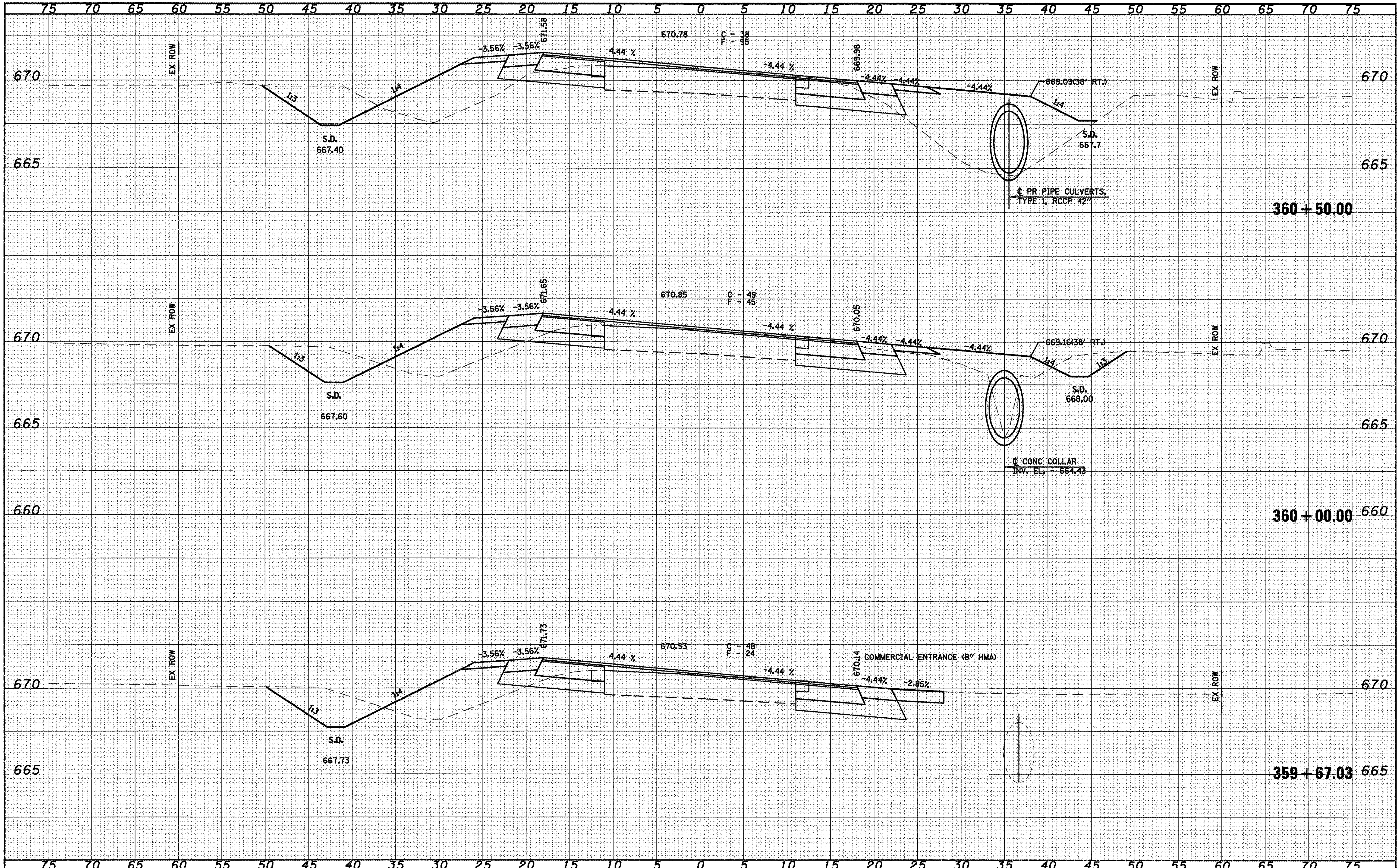

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No. 184-001907

CROSS SECTIONS

SCALE:	SHEET NO. 6 OF 19 SHEETS	STA. 359+67.03	TO STA. 360+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	78
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FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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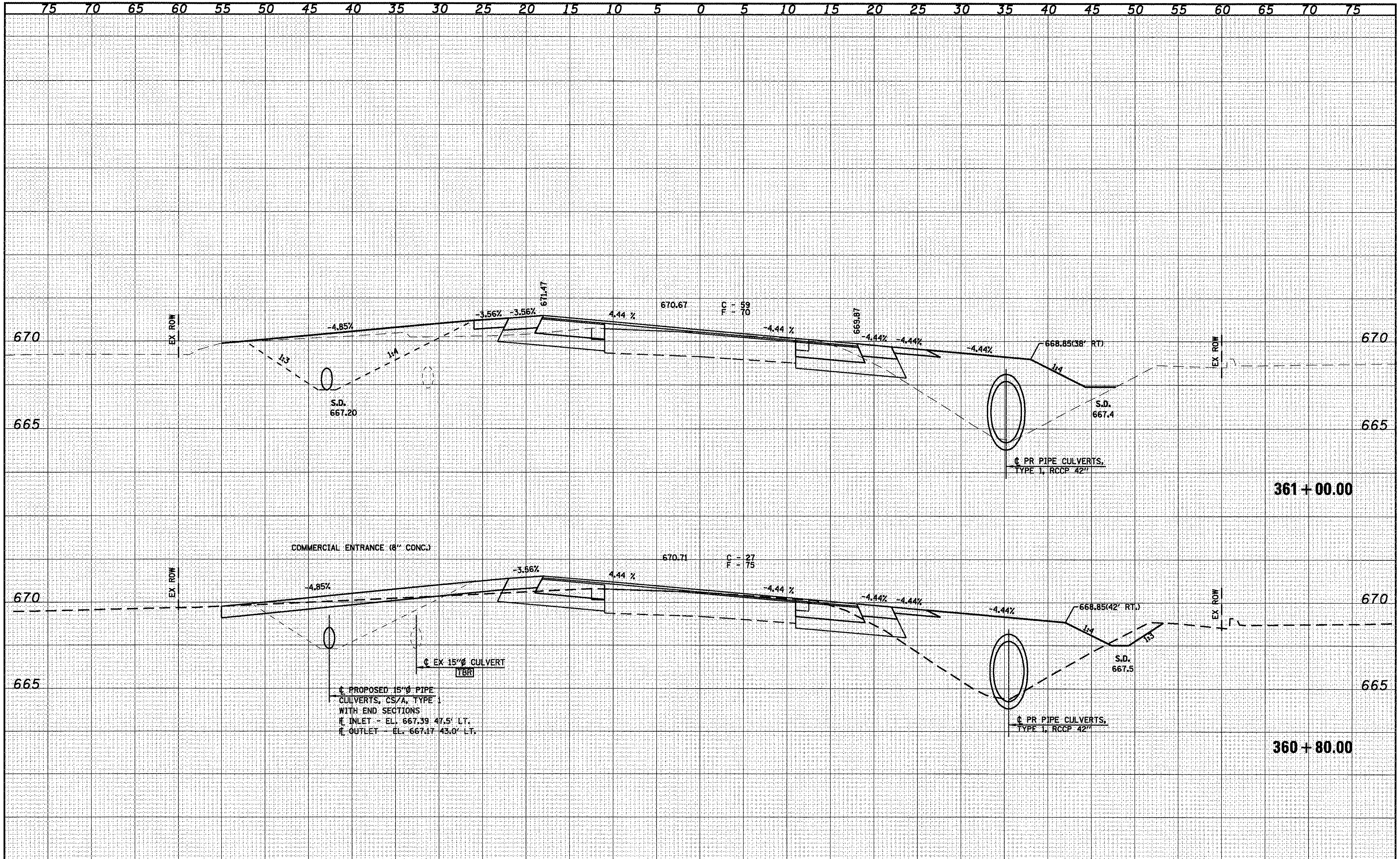

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	PLOT DATE = Aug-17-2009 04:07:52PM	DATE -	REVISED -		SCALE: SHEET NO. 7 OF 19 SHEETS STA. 360+80.00 TO STA. 361+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D1W-3,RS-11,CR)	MACOUPIN	102	79
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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FILE NAME =	USER NAME = madonsavj	DESIGNED -	REVISED -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL. Design Firm No. 184-001907	CROSS SECTIONS
		DRAWN -	REVISED -		
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	DIW-3,RS-11,CR)	MACOUPIN	102	80
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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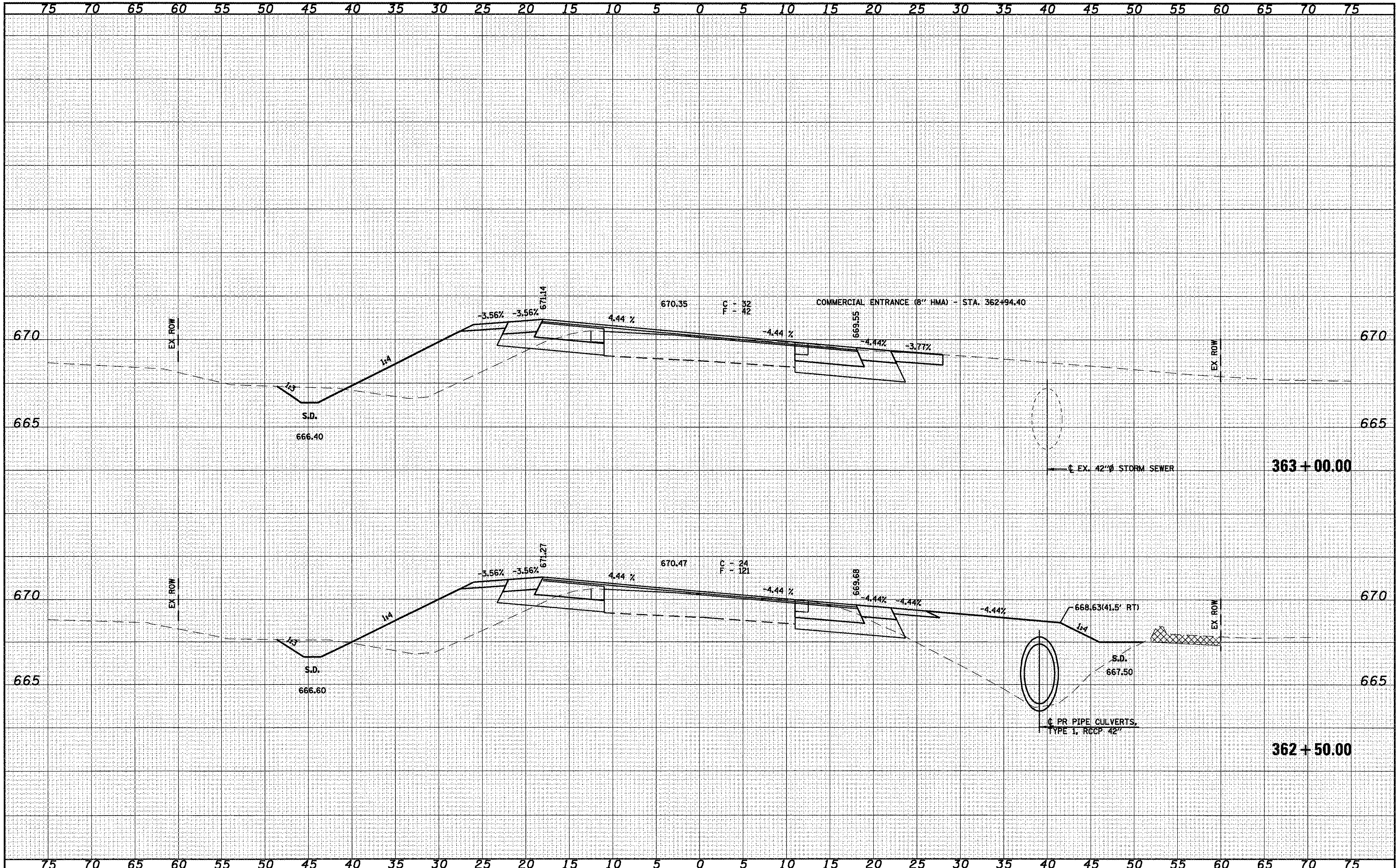

FINAL SURVEY | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | NOTE BOOK | NO. | BY | DATE

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

FILE NAME =	USER NAME = madoniavj	DESIGNED -	REVISED -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL. Design Firm No. 184-001907	CROSS SECTIONS	
	PLOT SCALE = 10.0000 ' / IN.	DRAWN -	REVISED -			
	PLOT DATE = Aug-17-2009 04:00:00PM	CHECKED -	REVISED -		SCALE:	SHEET NO. 9 OF 19 SHEETS	STA. 362+50.00 TO STA. 363+00.00
		DATE -	REVISED -			

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	81
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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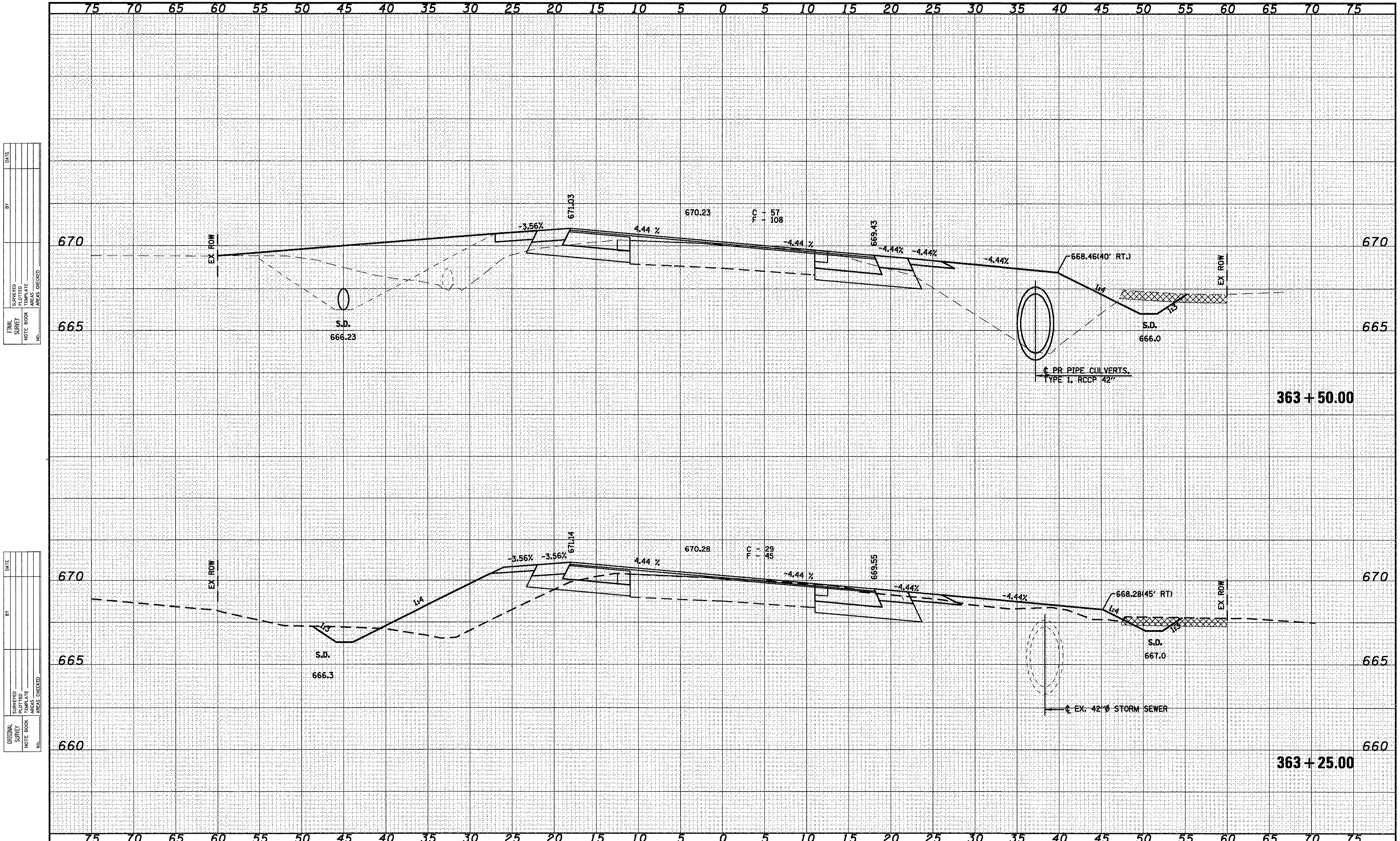

FILE NAME =	USER NAME = madoniavj	DESIGNED -	REVISED -	Allen Henderson & Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL. Design Firm No. 184-001907
		DRAWN -	REVISED -	
	PLOT SCALE = 10.0000 ' / IN.	CHECKED -	REVISED -	
	PLOT DATE = Aug-17-2009 04:08:04PM	DATE -	REVISED -	

CROSS SECTIONS

SCALE:	SHEET NO. 10 OF 19 SHEETS	STA. 363+25.00	TO STA. 363+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	82
		CONTRACT NO. 72765		

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

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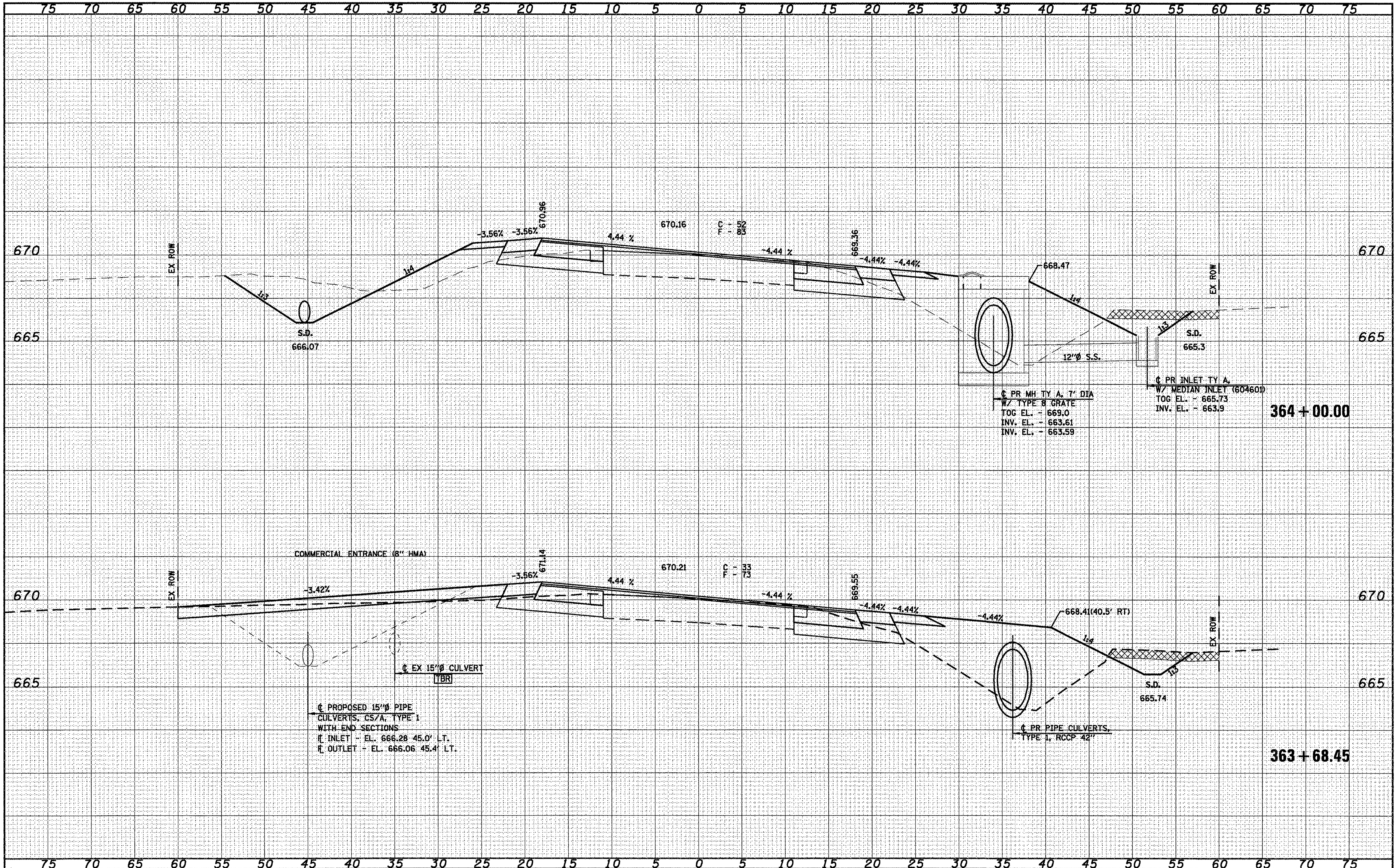

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CROSS SECTIONS

SCALE: | SHEET NO. 11 OF 19 SHEETS | STA. 363+68.45 TO STA. 364+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D1W-3,RS-11,CR)	MACOUPIN	102	83
		CONTRACT NO. 72765		

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

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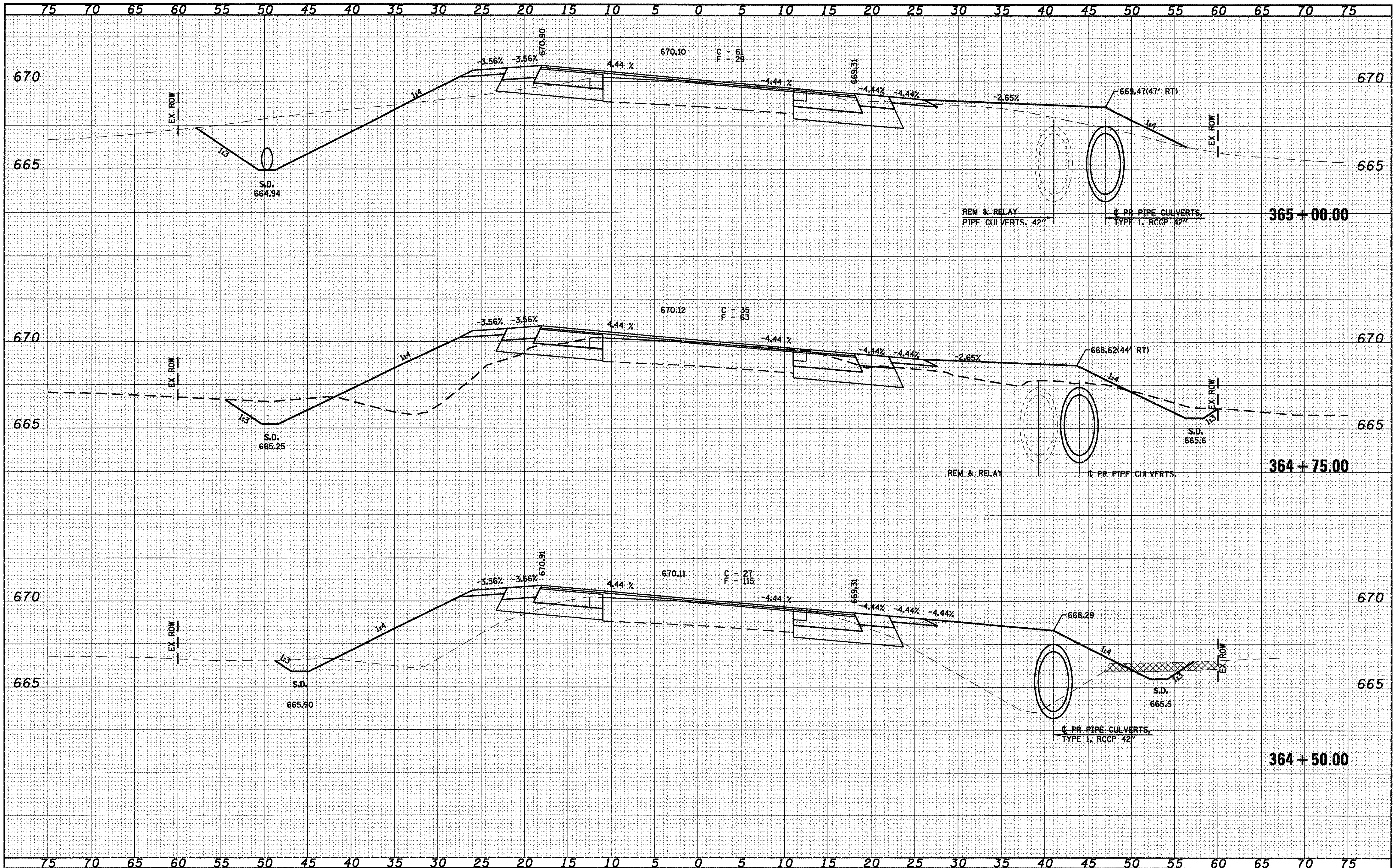

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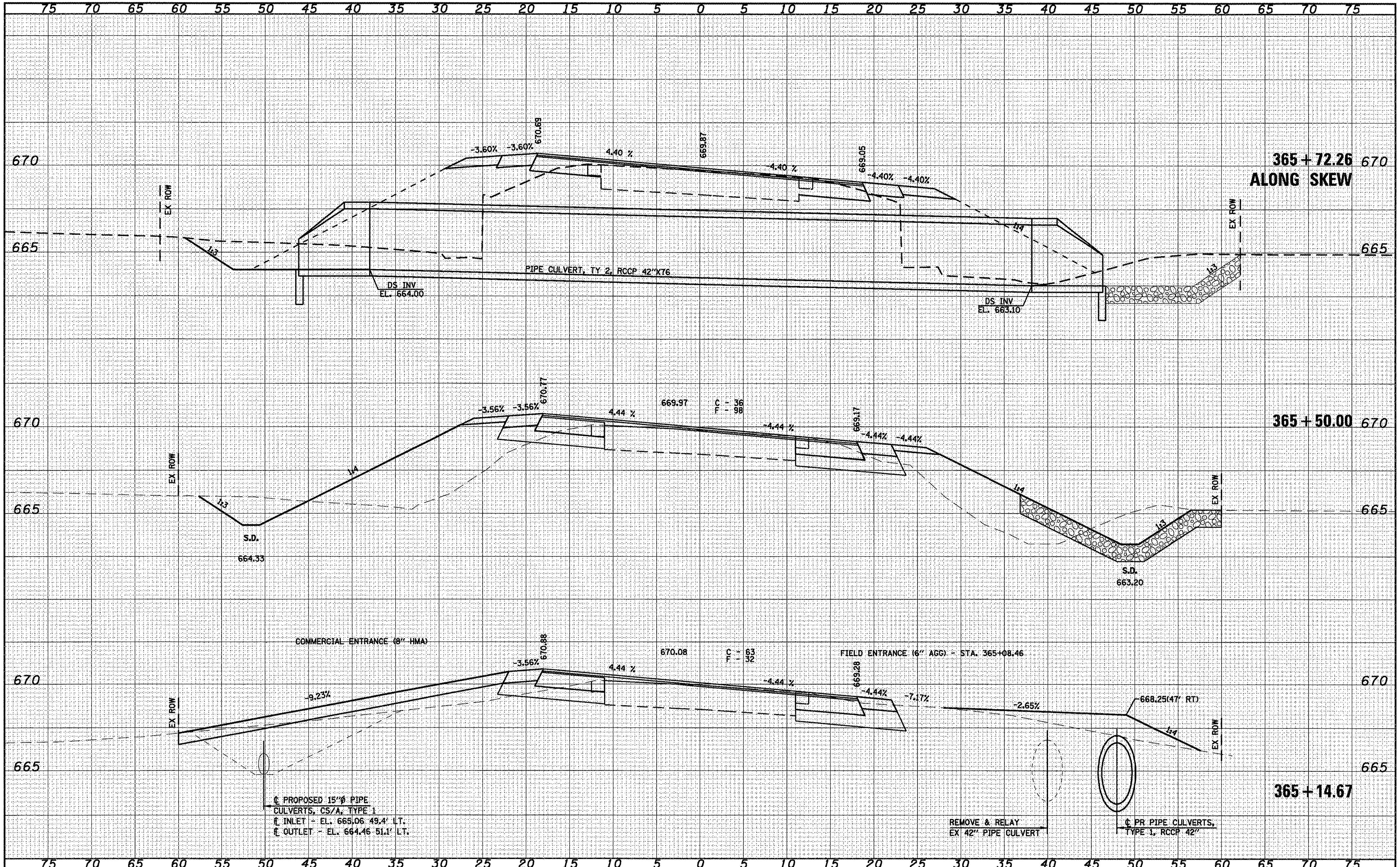
CROSS SECTIONS

SCALE: | SHEET NO. 12 OF 19 SHEETS | STA. 364+50.00 TO STA. 365+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	84
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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CROSS SECTIONS

SCALE: | SHEET NO. 13 OF 19 SHEETS | STA. 365+14.67 TO STA. 365+72.26

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	85
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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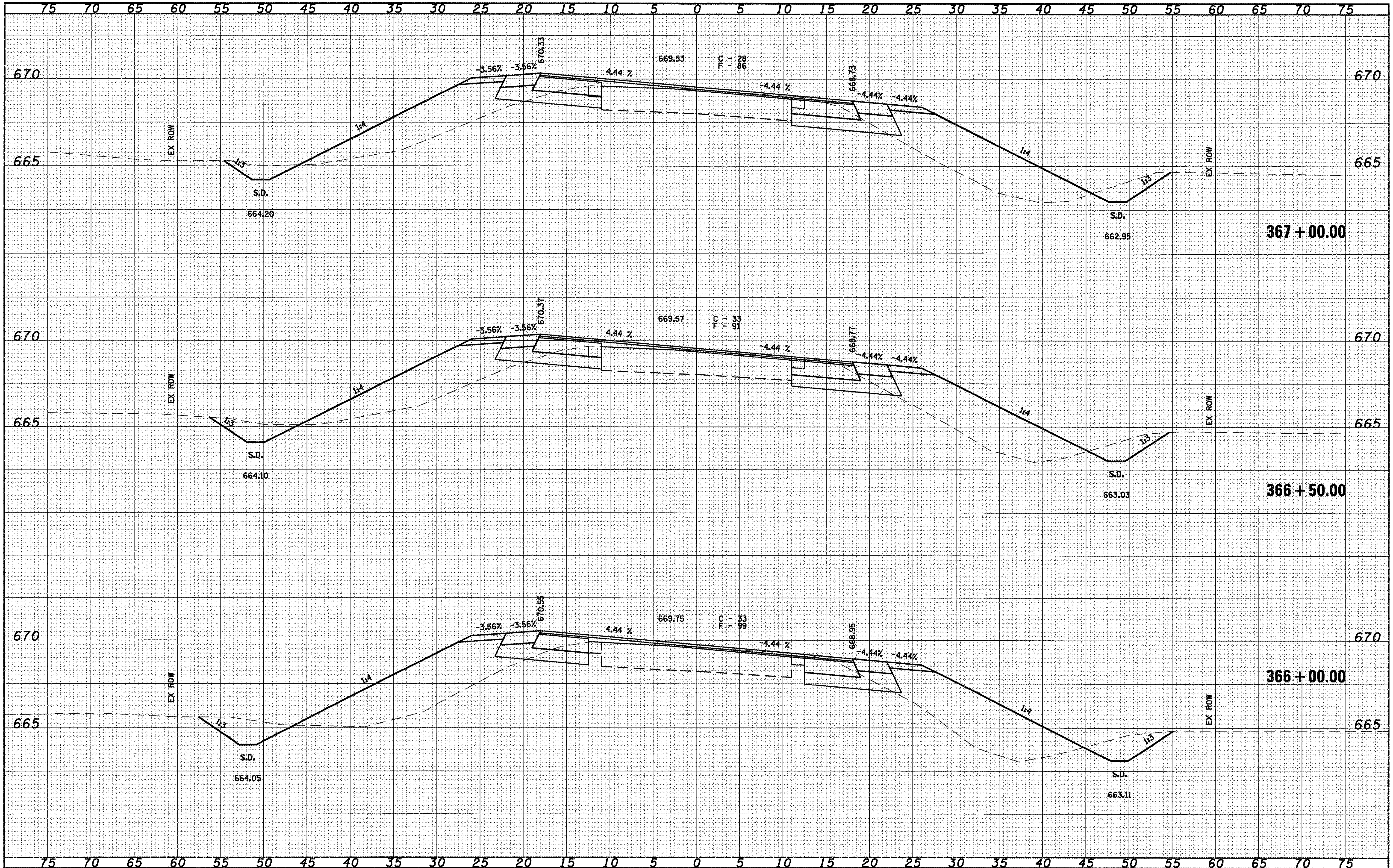

FINAL SURVEY	NOTE BOOK	NO.	SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED	BY	DATE

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

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CROSS SECTIONS

SCALE: | SHEET NO. 14 OF 19 SHEETS | STA. 366+00.00 TO STA. 367+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	86
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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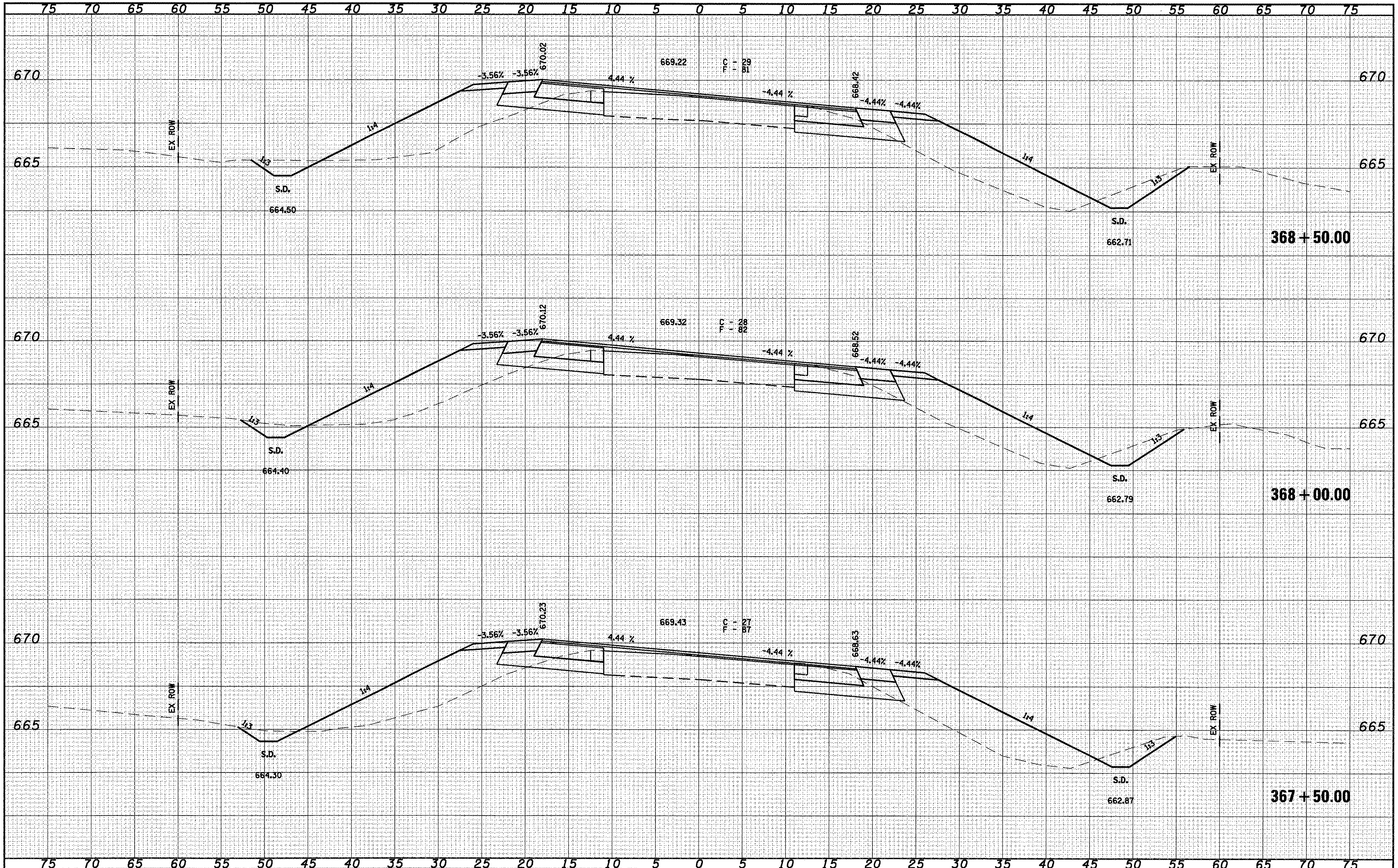

FINAL SURVEY | NOTE BOOK | NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

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CROSS SECTIONS

SCALE: | SHEET NO. 15 OF 19 SHEETS | STA. 367+50.00 TO STA. 368+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	87
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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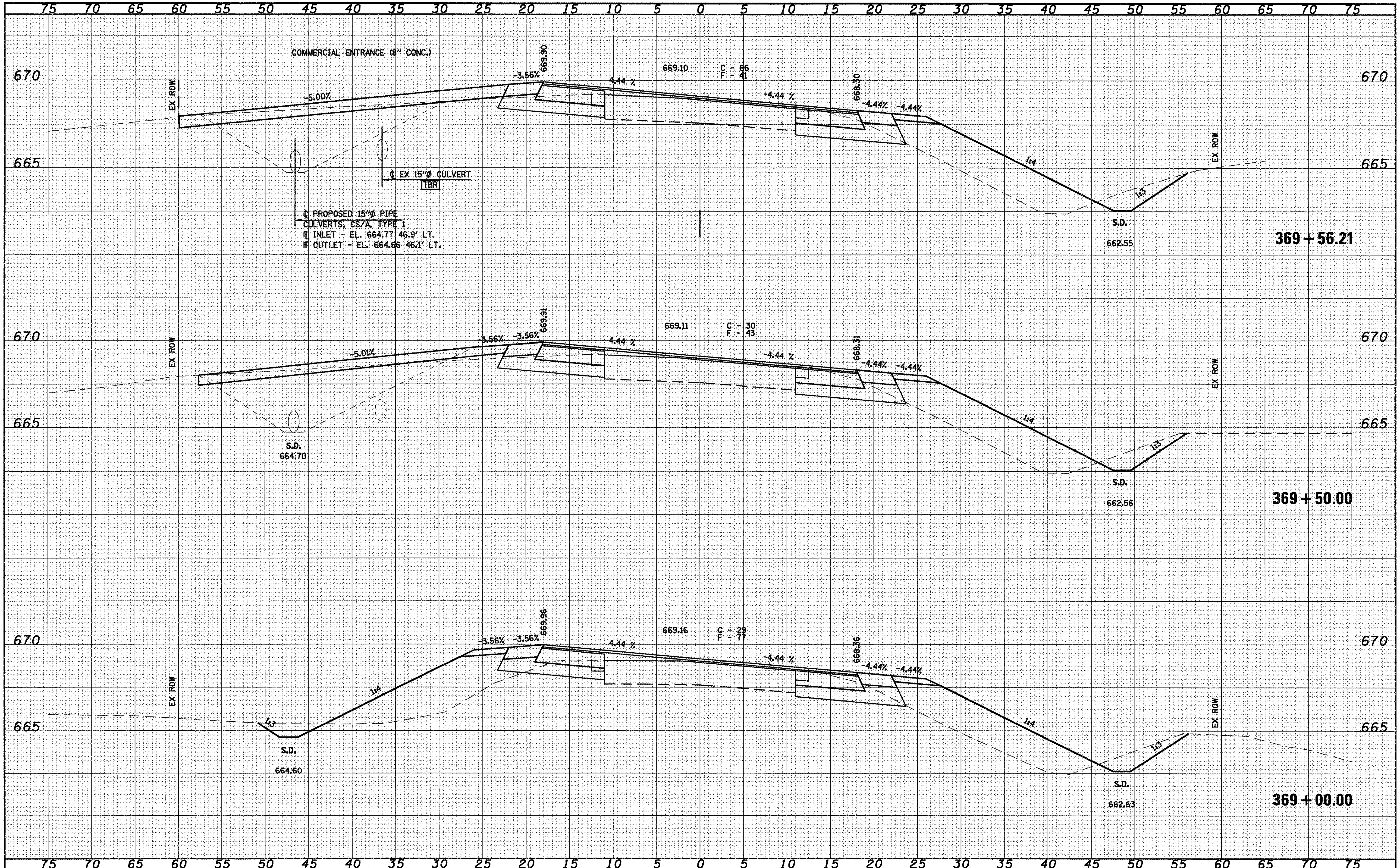

FINAL SURVEY | NOTE BOOK | NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

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CROSS SECTIONS

SCALE: | SHEET NO. 16 OF 19 SHEETS | STA. 369+00.00 TO STA. 369+56.21

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	88
		CONTRACT NO. 72765		

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

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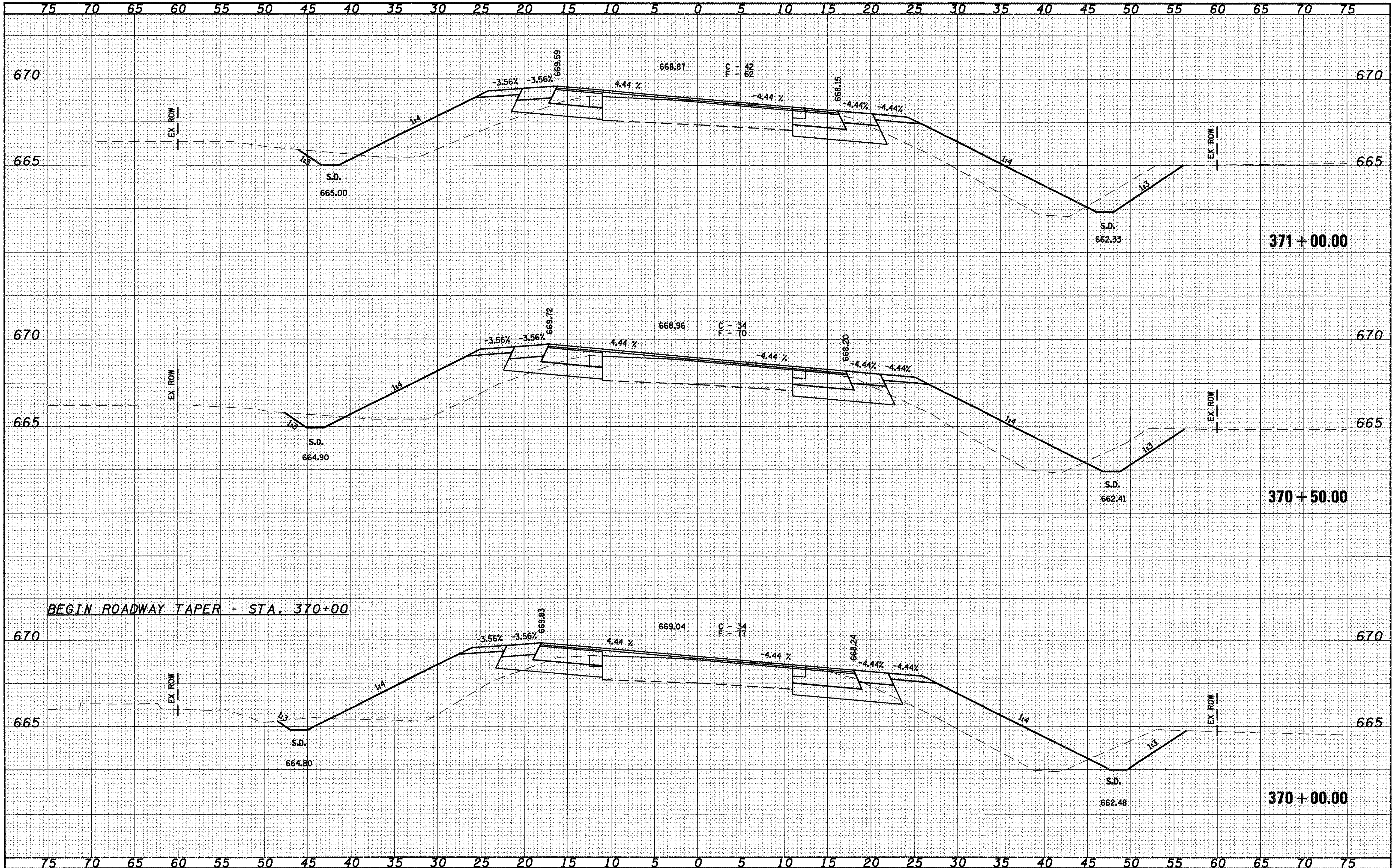

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CROSS SECTIONS

SCALE: | SHEET NO. 17 OF 19 SHEETS | STA. 370+00.00 TO STA. 371+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	89

CONTRACT NO. 72765

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

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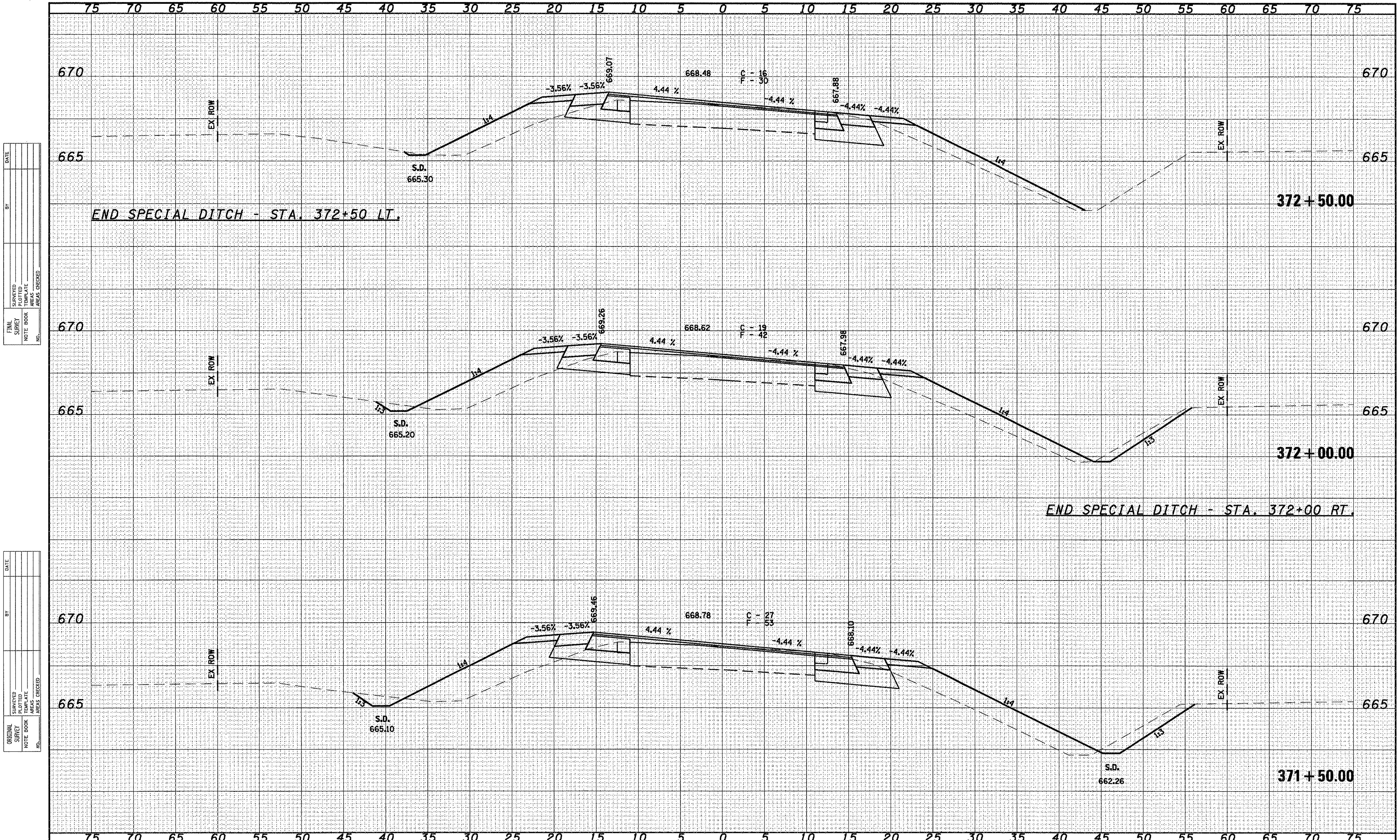

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CROSS SECTIONS

SCALE: | SHEET NO. 18 OF 19 SHEETS | STA. 371+50.00 TO STA. 372+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	90
		CONTRACT NO. 72765		

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

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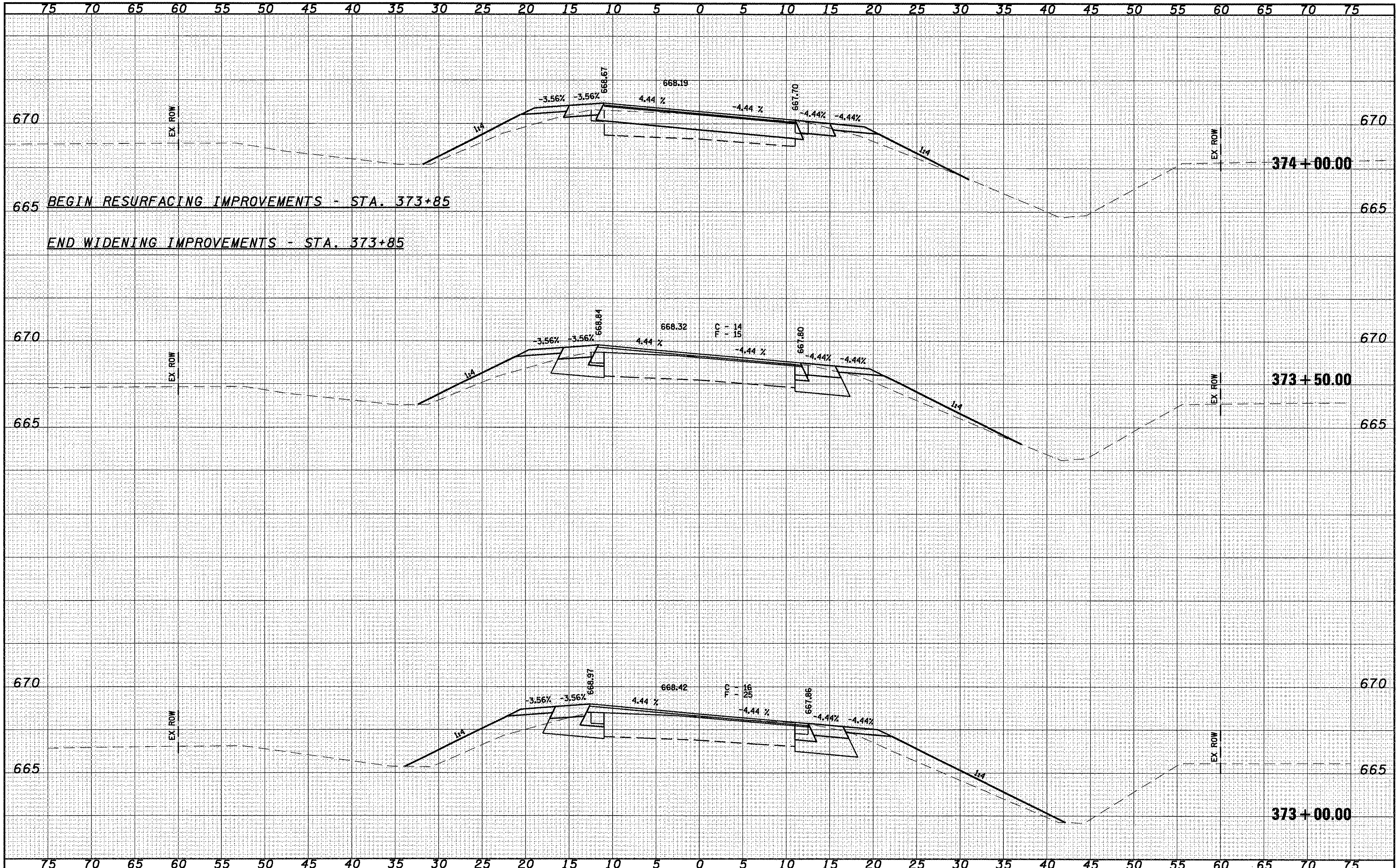

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SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
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AREAS		
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NOTE BOOK NO.		

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CROSS SECTIONS

SCALE:	SHEET NO. 19 OF 19 SHEETS	STA. 373+00.00 TO STA. 374+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	91
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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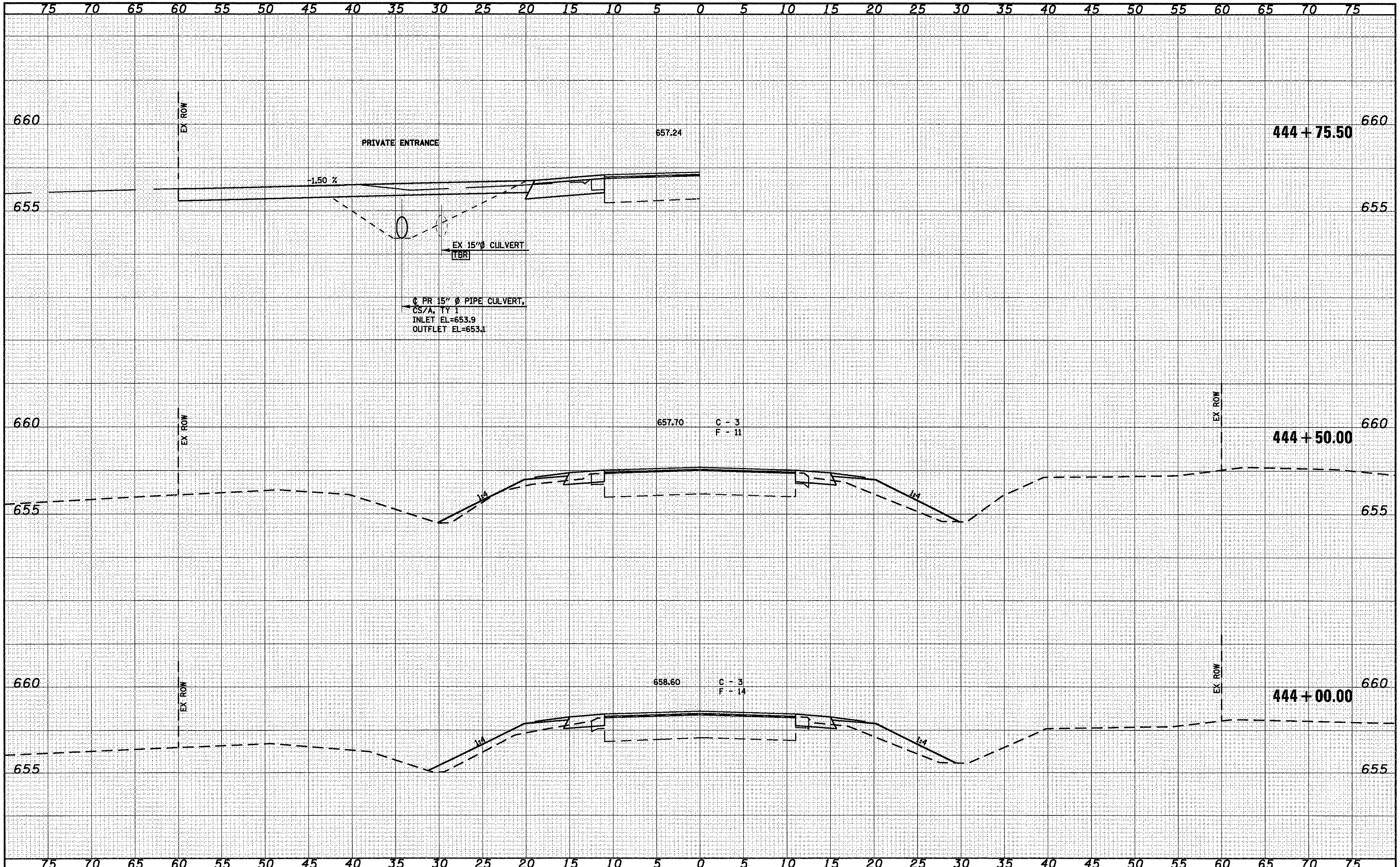

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CROSS SECTIONS

SCALE: | SHEET NO. 1 OF 11 SHEETS | STA. 444+00.00 TO STA. 444+75.50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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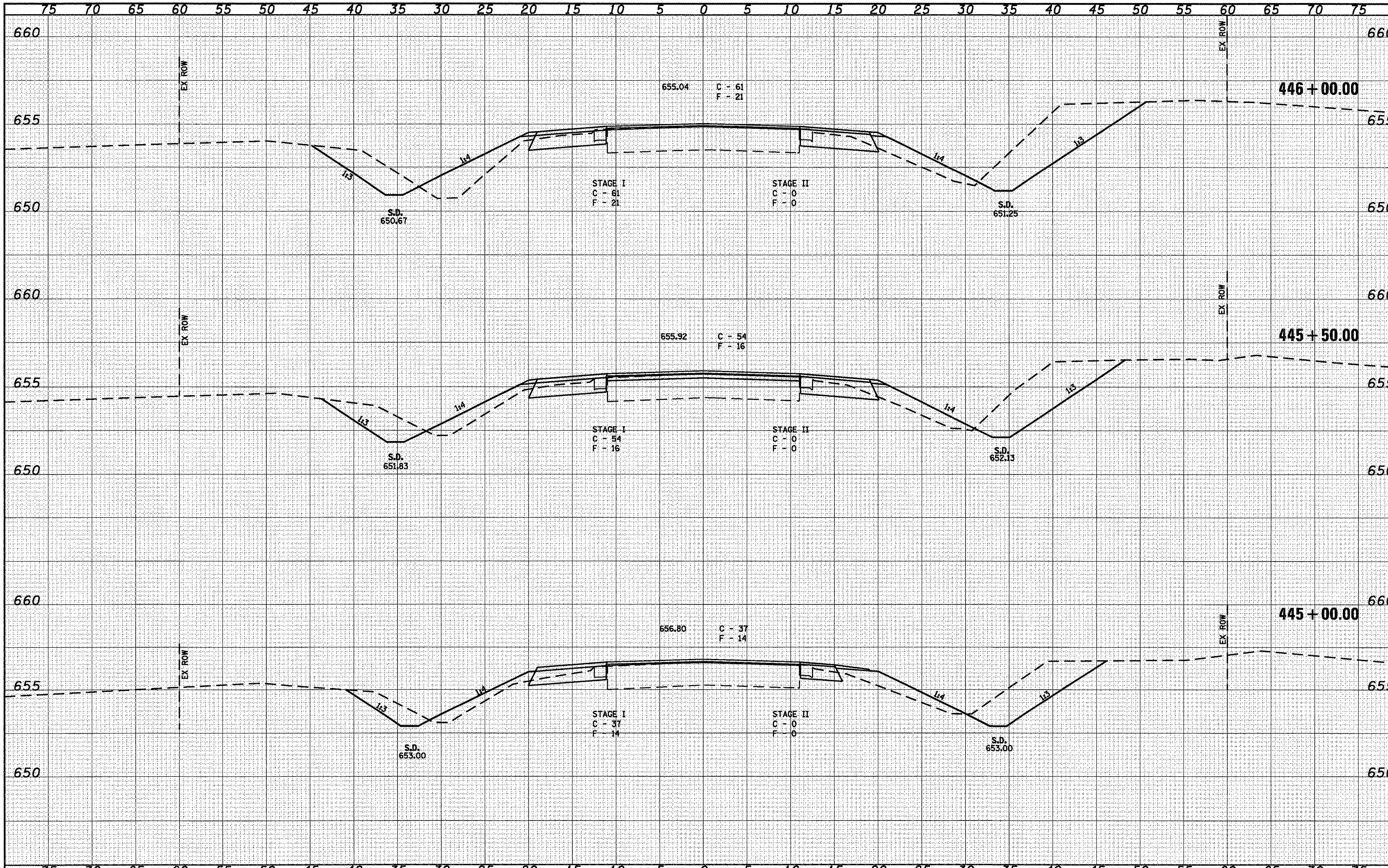
		CONTRACT NO. 72765		

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



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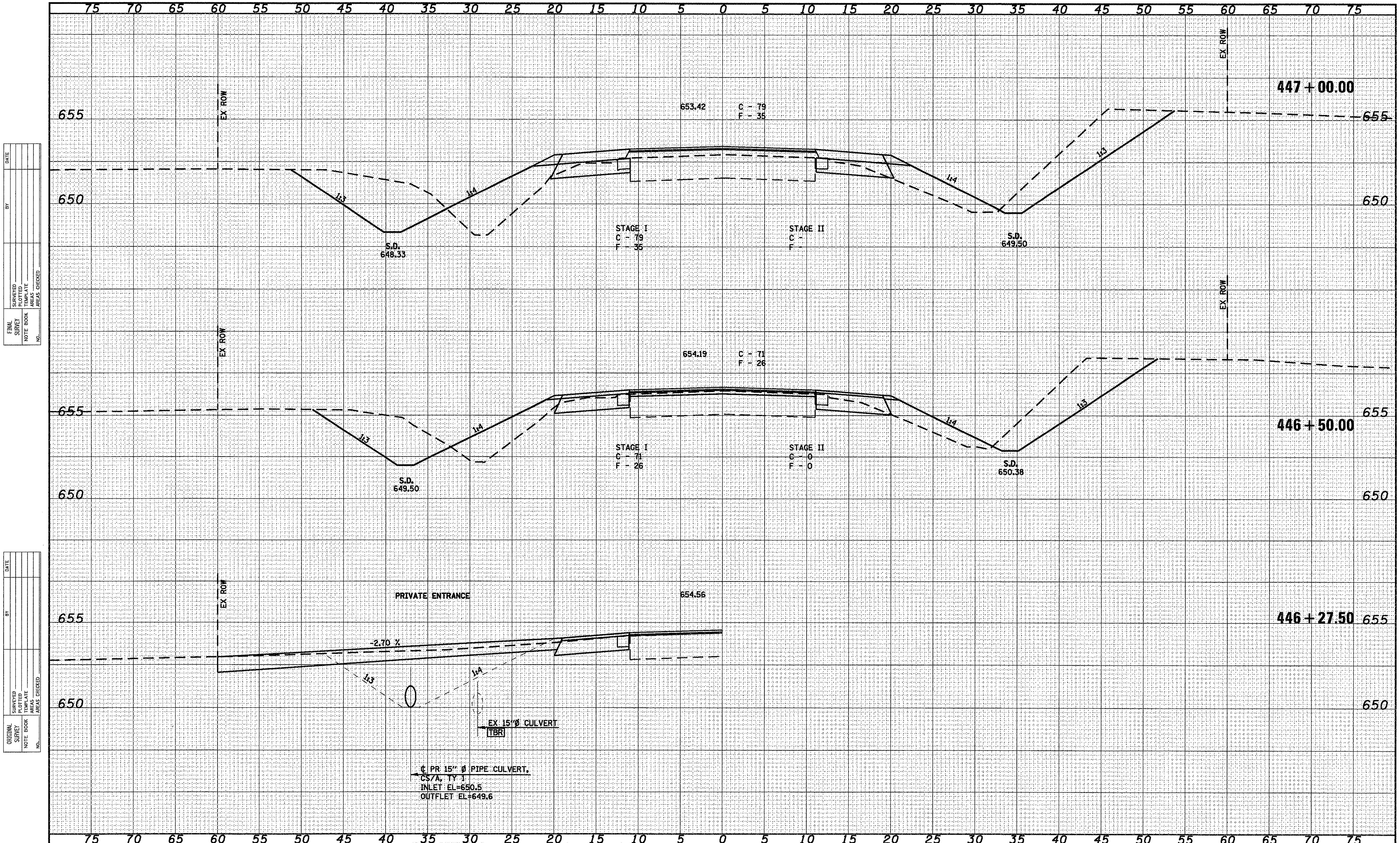
CROSS SECTIONS

SCALE: | SHEET NO. 2 OF 11 SHEETS | STA. 445+00.00 TO STA. 446+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	93
		CONTRACT NO. 72765		

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



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CROSS SECTIONS

SCALE: | SHEET NO. 3 OF 11 SHEETS | STA. 446+27.50 TO STA. 447+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	94
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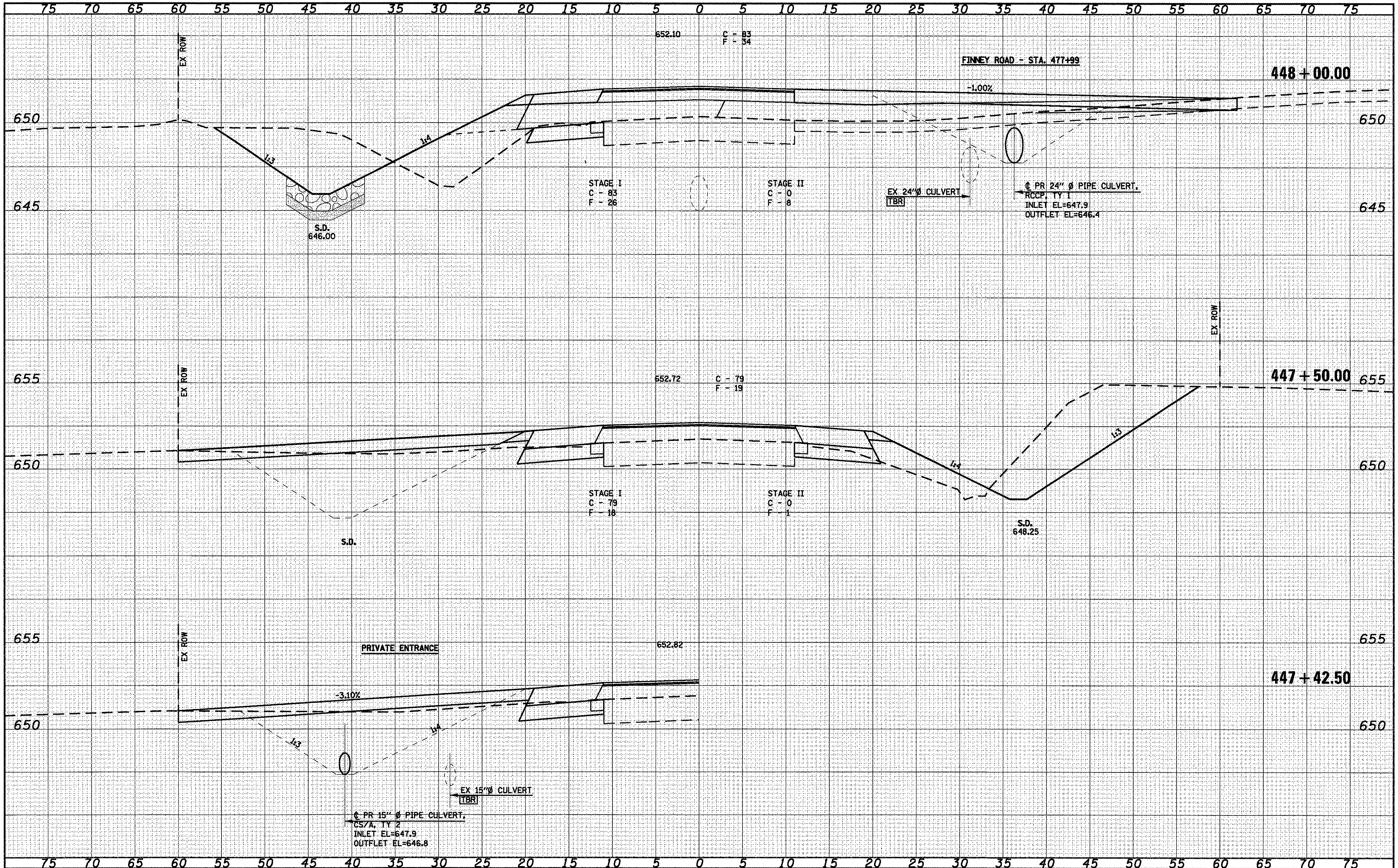

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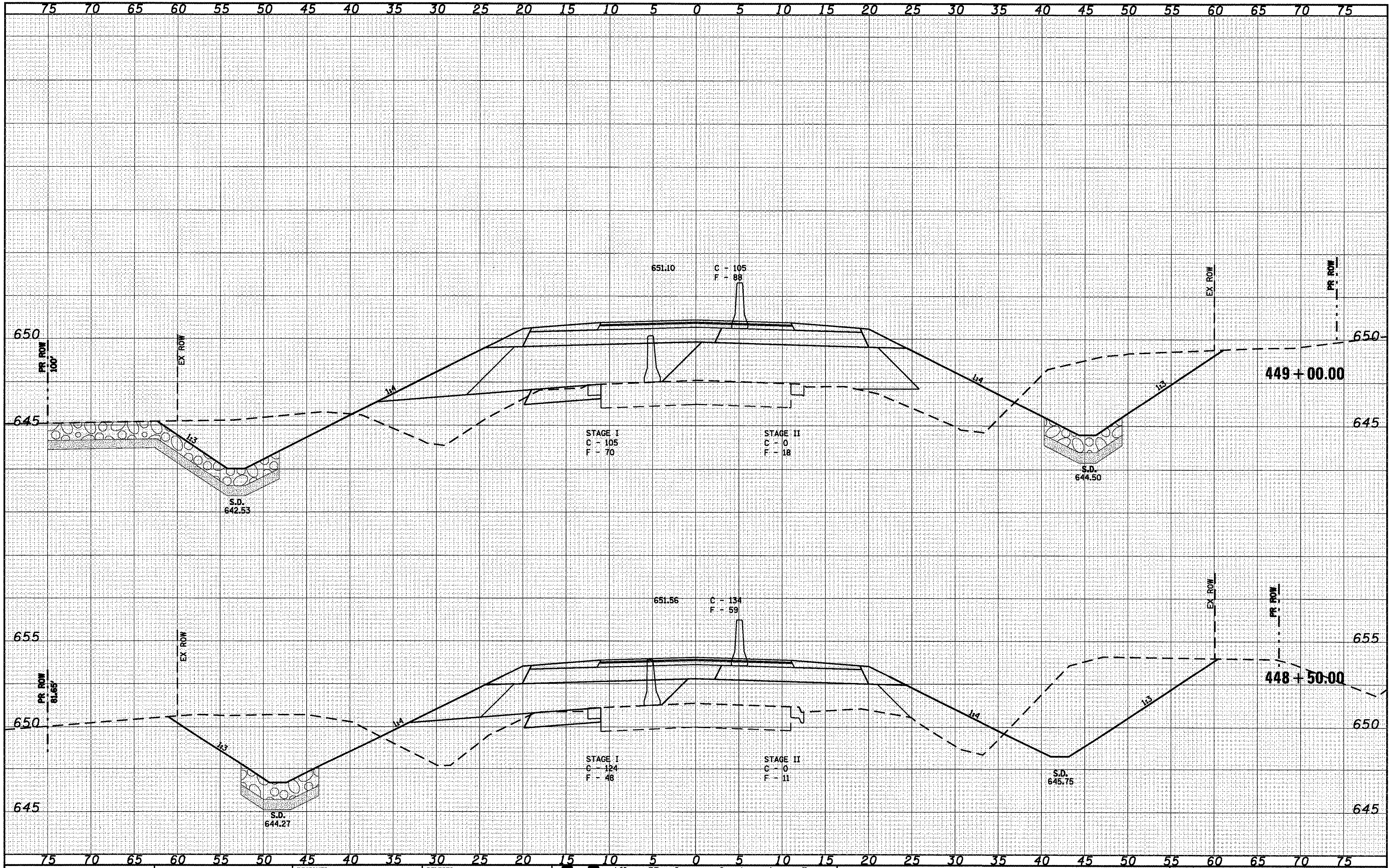
CROSS SECTIONS

SCALE: | SHEET NO. 4 OF 11 SHEETS | STA. 447+42.50 TO STA. 448+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	95

CONTRACT NO. 72765

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



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CROSS SECTIONS

SCALE: | SHEET NO. 5 OF 11 SHEETS | STA. 448+50.00 TO STA. 449+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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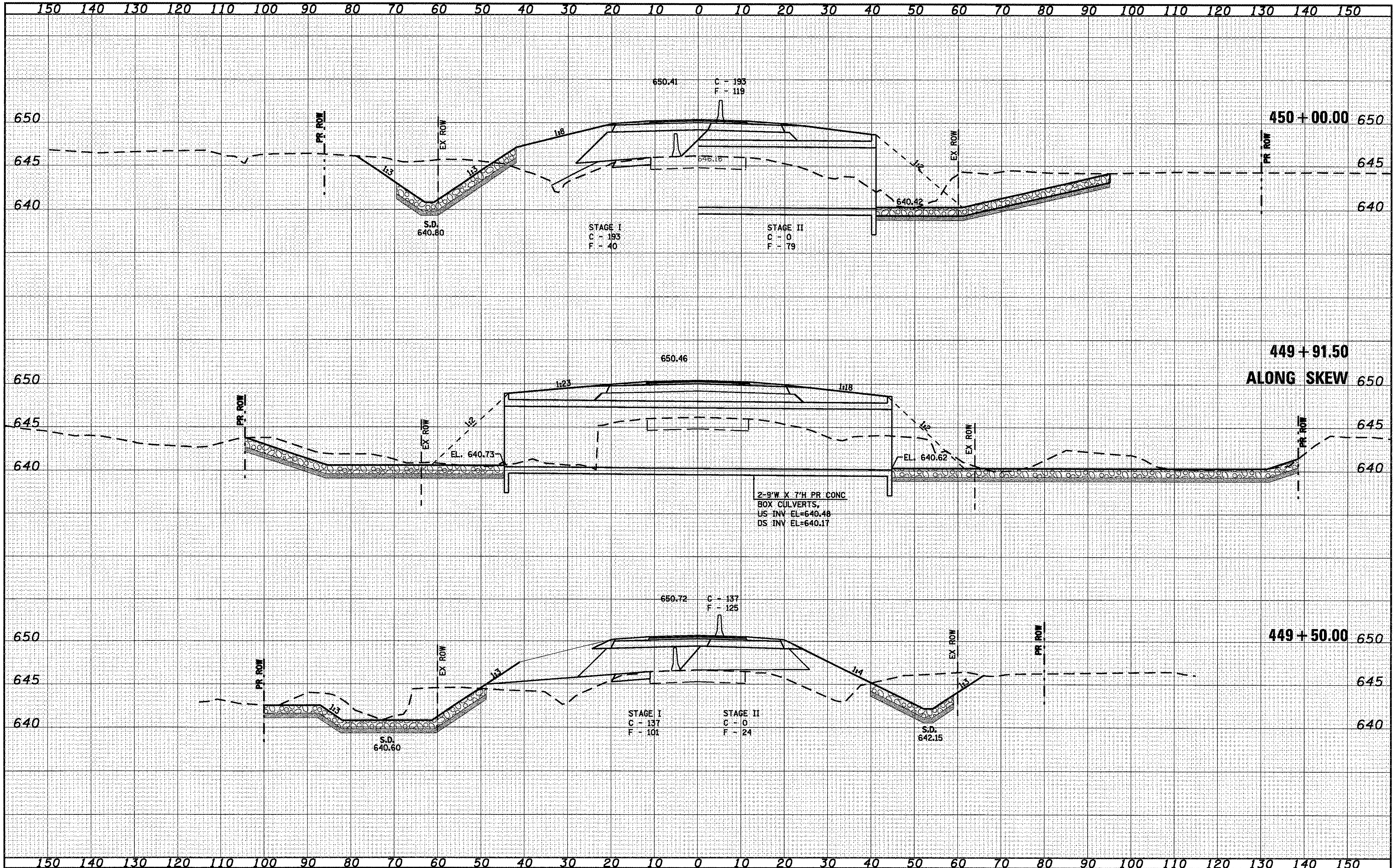
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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CROSS SECTIONS

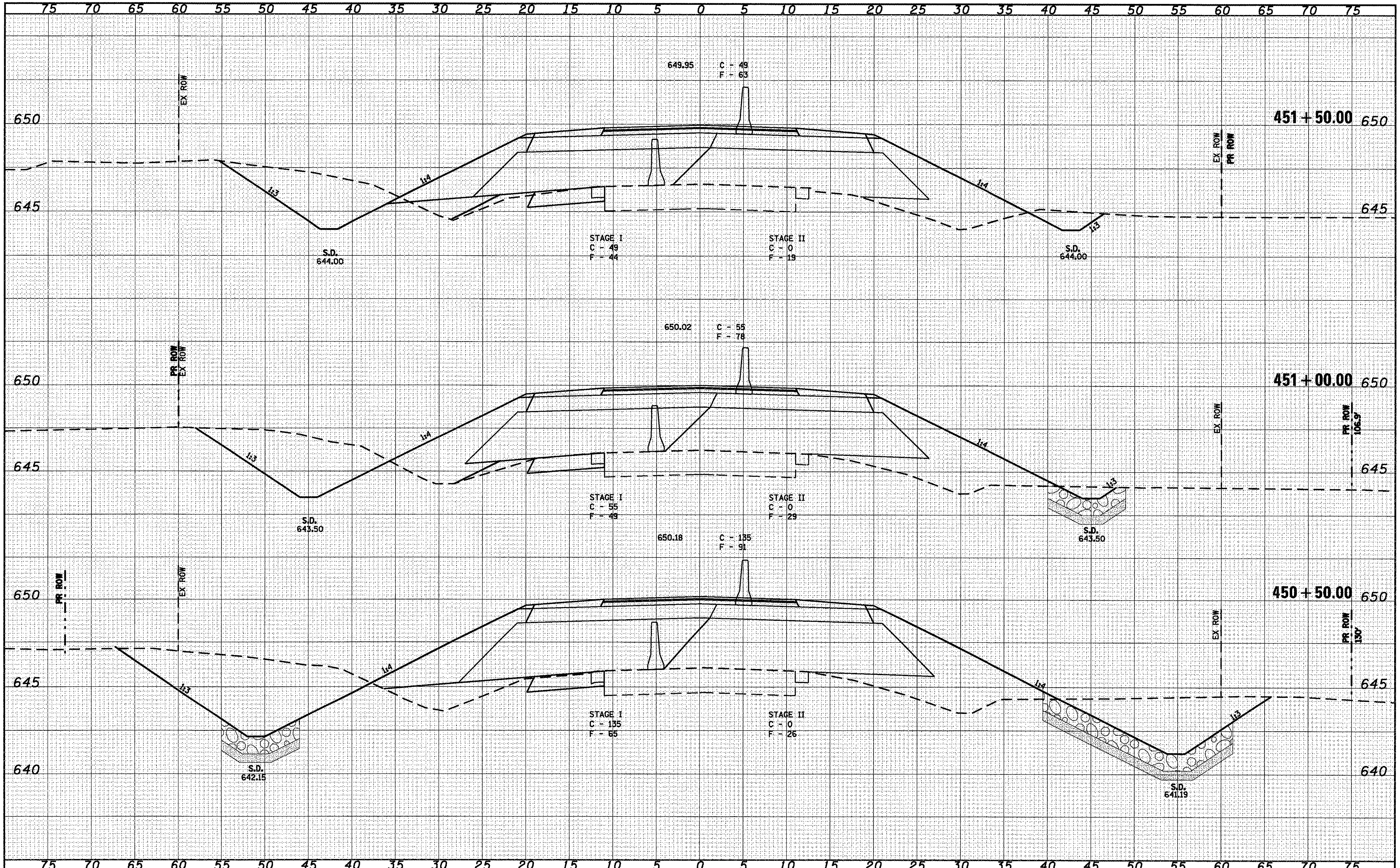
SCALE: VARIES	SHEET NO. 6 OF 11 SHEETS	STA. 449+50.00	TO STA. 450+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	97
		CONTRACT NO. 72765		

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

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

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



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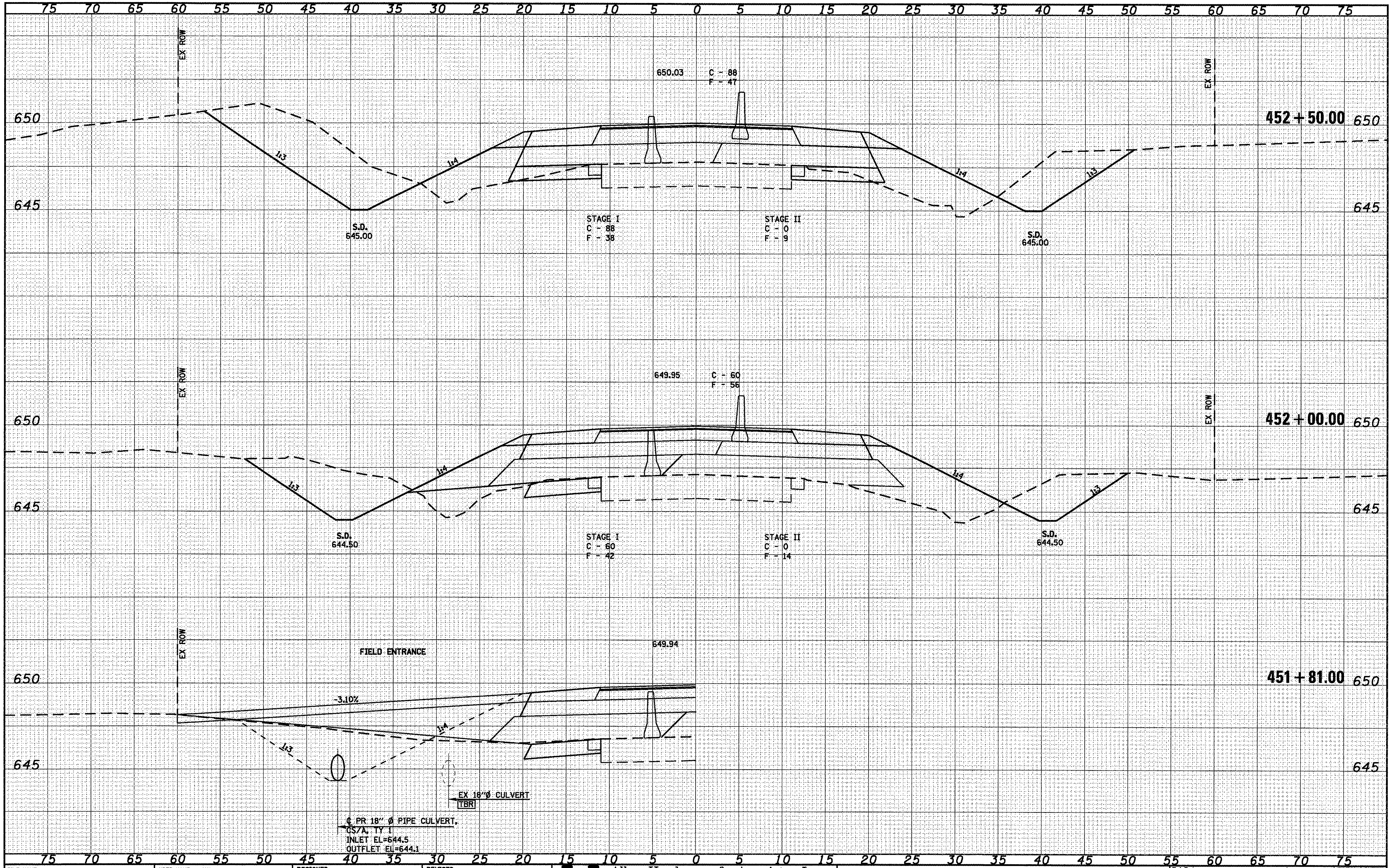
CROSS SECTIONS

SCALE: | SHEET NO. 7 OF 11 SHEETS | STA. 450+50.00 TO STA. 451+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	98

CONTRACT NO. 72765

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



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PLOT DATE = Sep-11-2009 03:18:13PM	
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

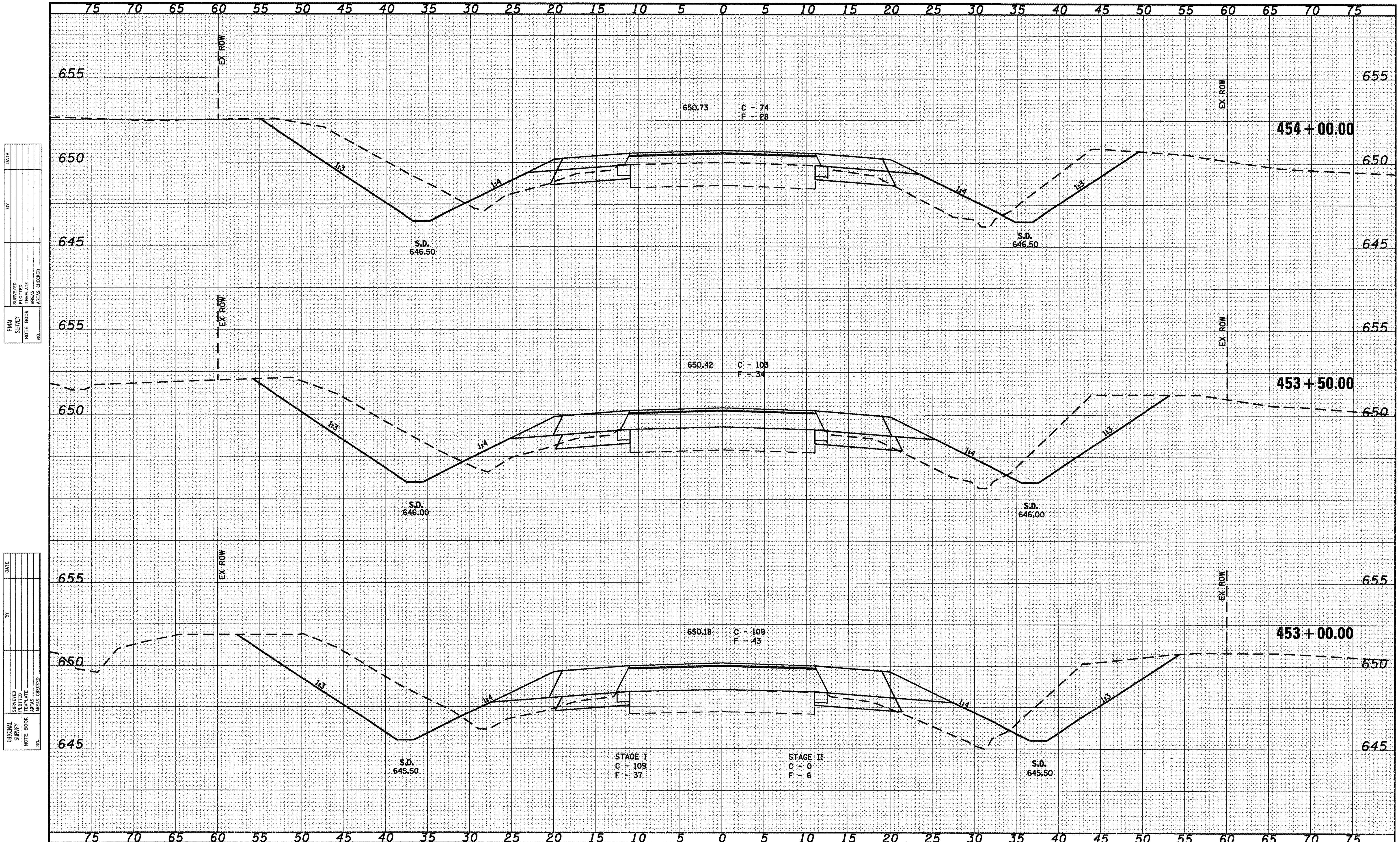
Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL. Design Firm
No. 184-001907

CROSS SECTIONS

SCALE: | SHEET NO. 8 OF 11 SHEETS | STA. 451+81.00 TO STA. 452+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	99
		CONTRACT NO. 72765		

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



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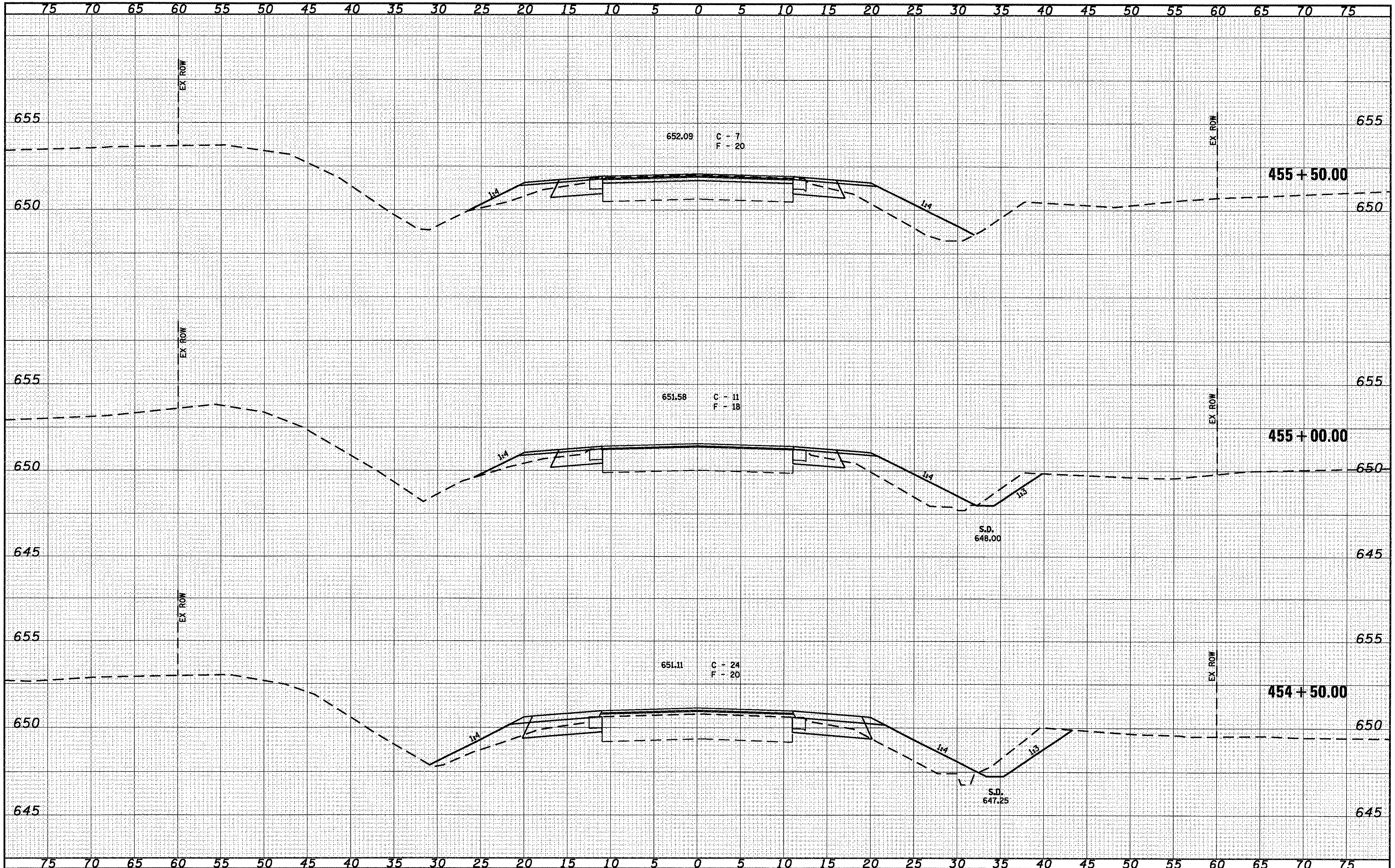
		DATE -	REVISED -	No. 184-001907	SCALE: SHEET NO. 9 OF 11 SHEETS STA. 453+00.00 TO STA. 454+00.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

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

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



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CROSS SECTIONS

SCALE:	SHEET NO. 10 OF 11 SHEETS	STA. 454+50.00	TO STA. 455+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	101
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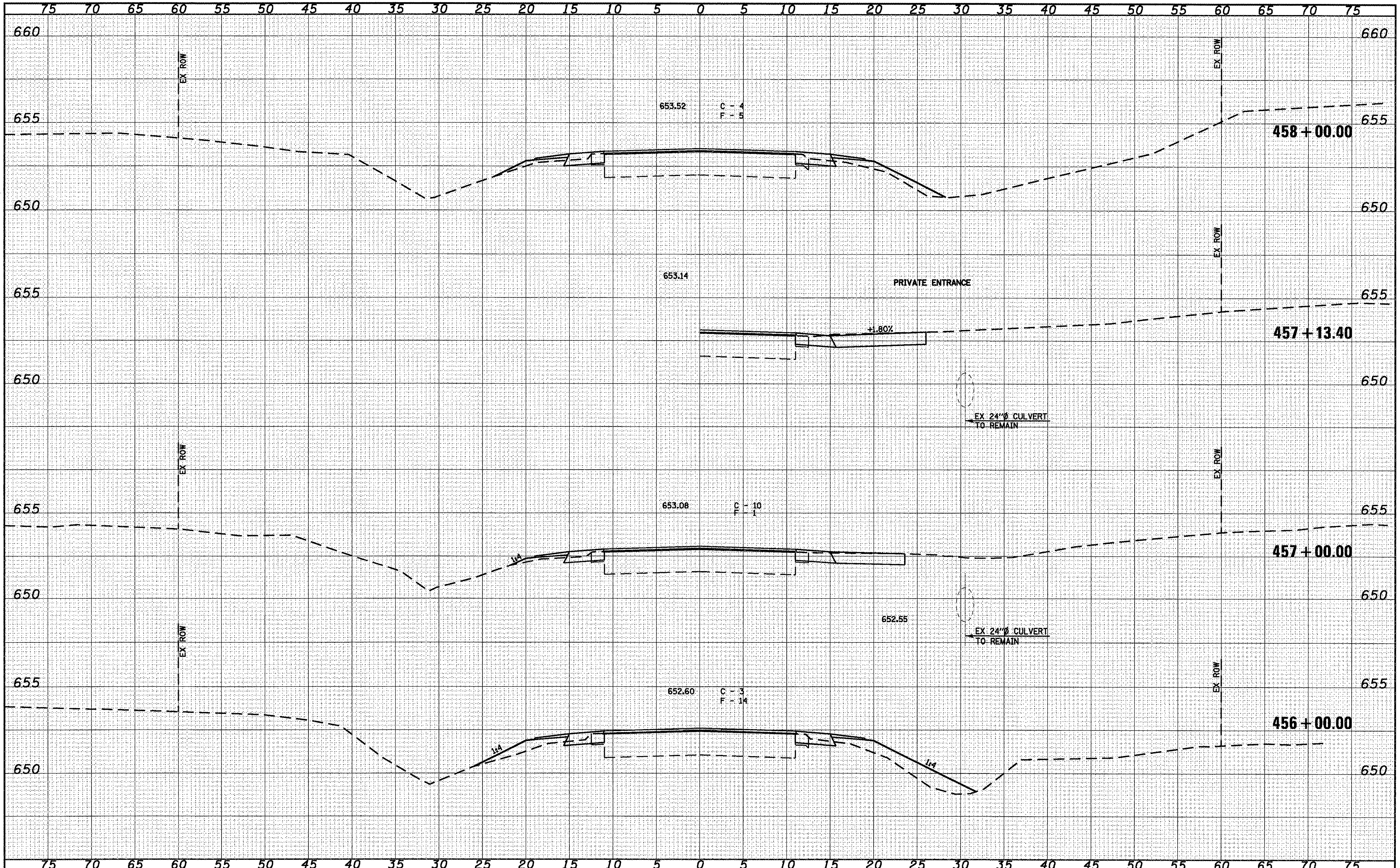
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	102
		CONTRACT NO. 72765		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		