

STATE OF ILLINOIS 11-18-2022 LETTING ITEM 110
 DEPARTMENT OF TRANSPORTATION

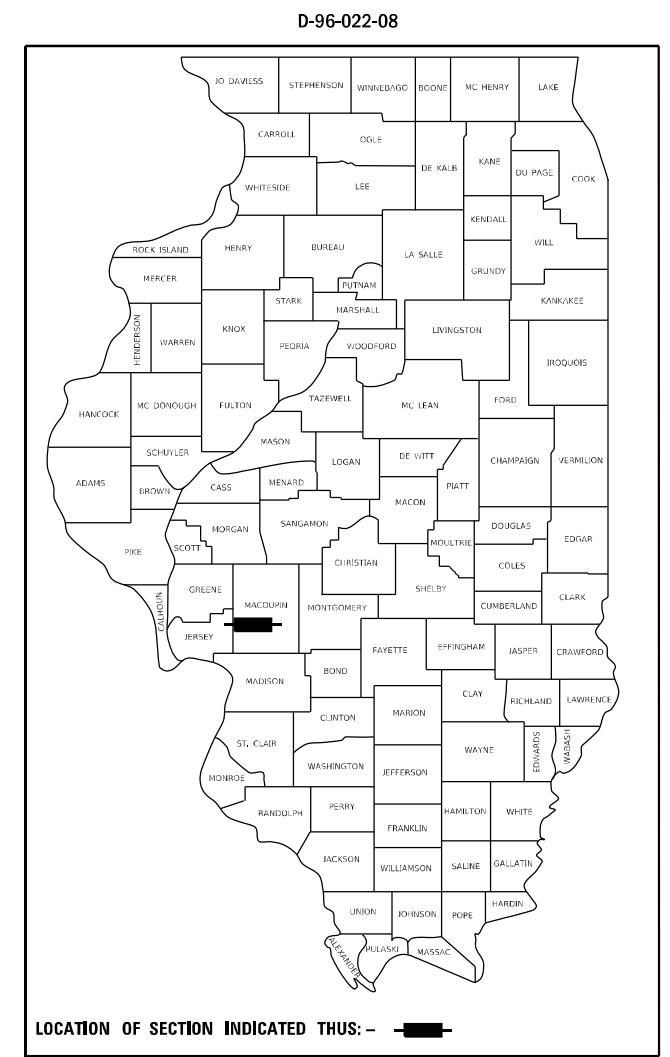
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116) B-2,3,4	MACOUPIN	194	1
		ILLINOIS	CONTRACT NO. 72B64	

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62-89	STRUCTURE PLANS - FOR INFORMATION ONLY
90-99	DETAIL SHEETS
100-194	CROSS SECTION SHEETS

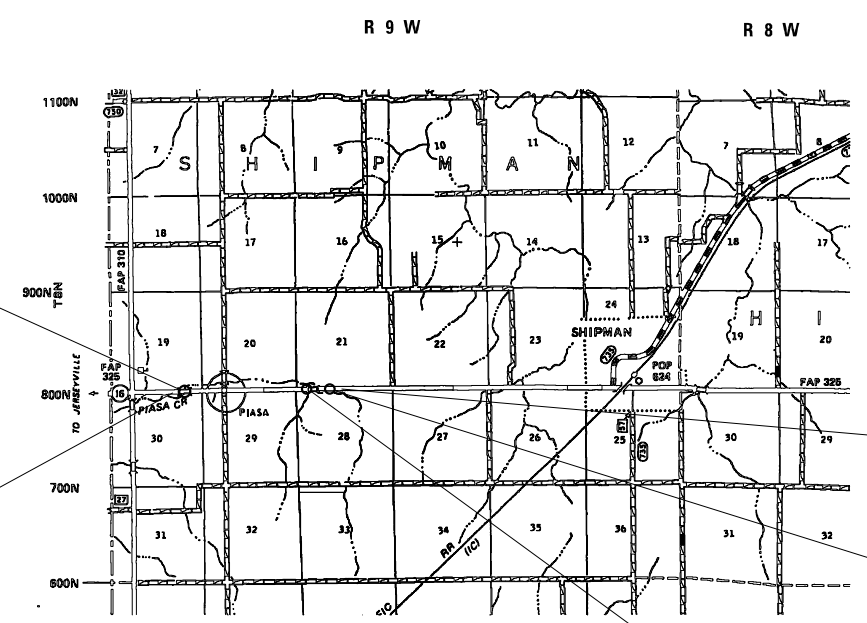
PROPOSED HIGHWAY PLANS

FAP ROUTE 325 (IL 16)
 SECTION (114,116) B-2,3,4
 PROJECT COVD-YPKZ(604)
 BRIDGE REPLACEMENT
 MACOUPIN COUNTY

C-96-022-08



STA 629+14.00 TO STA. 629+68.30
 STRUCTURE REPLACEMENT
 EX S.N. 059-0001 TBR.
 PR SN 059-2513, 20° SKEW, LT FWD
 TRIPLE BARREL PRECAST
 BOX CULVERT 12'X10'.
 *SEE STRUCTURE SHEETS

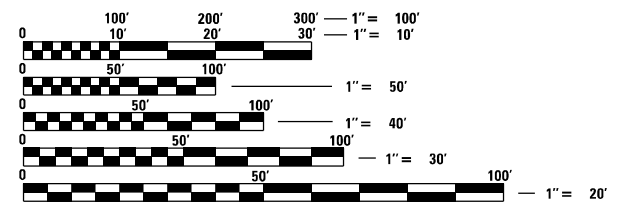


END PROJECT
 STA 706+50

STA 700+99.00 TO STA. 700+01.00
 STRUCTURE REPLACEMENT
 EX SN 059-0002 TBR.
 PR SN 059-2509, 45° SKEW, RT FWD
 DOUBLE BARREL CAST-IN-PLACE
 BOX CULVERT 10'X10'.
 *SEE STRUCTURE SHEETS

STA 695+31.27
 EX SN 059-7039 WILL REMAIN IN PLACE.

BEGIN PROJECT
 STA 622+00



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

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



LOCATION MAP
 SCALE: 1" = 5000'

SECTION 114 LENGTH = 1200.00 FT. = 0.227 MILE
 SECTION 116 LENGTH = 1700.00 FT. = 0.322 MILE

ADT=2850 (2019)
 PV=89.47%
 SU=5.09%
 MU=5.44%

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED August 20, 2021

Jay P. Myers REGIONAL ENGINEER

October 14, 2022

Scott A. Etk ENGINEER OF DESIGN AND ENVIRONMENT

October 14, 2022

Stephen M. Smith DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PROJECT ENGINEER: JAY EDWARDS (217) 785-0597
 PROJECT MANAGER: SYLVETTE CUEBAS-CANCEL (217) 785-5329

CONTRACT NO. 72B64

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

GENERAL NOTES

- ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON U.S.G.S. MEAN SEA LEVEL DATUM.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE THE PLAN QUANTITIES:

AGGREGATE MATERIAL	1.60 TON/CU.YD
STONE DUMPED RIPRAP	1.50 TON/CU.YD
BITUMINOUS MATERIALS (TACK COAT)	0.05 LBS/SQ. FT. (ON PAVEMENT: MILLED HMA)
BITUMINOUS MATERIALS (PRIME COAT)	0.25 LBS/SQ. FT. +/- 0.01
BITUMINOUS MATERIALS (TACK COAT)	0.025 LBS/SQ. FT. (ON PAVEMENT: HMA LIFTS)
BITUMINOUS CONCRETE SURFACE / BINDER	0.056 TON/SQ. YD. PER 1"
- NO PASSING ZONES TO BE FIELD VERIFIED BY THE BUREAU OF OPERATIONS. THE RESIDENT ENGINEER SHALL NOTIFY THE BUREAU OF OPERATIONS AT LEAST 14 DAY PRIOR TO PLACEMENT OF THE FINAL PERMANENT PAVEMENT MARKING. (PH 217-782-7314)
- GROUND IMPROVEMENTS MAY BE REQUIRED PRIOR TO PLACING PRECAST BOX CULVERT SECTIONS. SEE SCHEDULE OF QUANTITIES. THE ENGINEER WILL DETERMINE THE NEED FOR GROUND IMPROVEMENT AFTER EXCAVATION TO THE THEORETICAL BOTTOM OF BEDDING ELEVATION.
- ALL GUARDRAIL SHALL HAVE A PRELIMINARY LAYOUT. GUARRAIL POSTS SHALL BE ADJUSTED SO AS TO MISS ANY SHOULDER DRAINS, INLETS, PIPE CULVERTS, STORM SEWER OR ANY OTHER HAZARD THAT MAY INTERFERE WITH GUARDRAIL CONSTRUCTION.
- GUARDRAIL REFLECTORS SHALL NOT BE ATTACHED TO PROPOSED "TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL" RAIL ELEMENTS. MARKERS IN THE AREA OF THE TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL SHALL BE MOUNTED ON THE NEAREST POST.

HIGHWAY STANDARDS

- | | |
|-----------|--|
| 000001-08 | STANDARDS SYMBOLS, ABBREVIATIONS, AND PATTERNS |
| 001001-02 | AREAS OF REINFORCEMENT BARS |
| 001006 | DECIMAL OF AN INCH AND OF A FOOT |
| 280001-07 | TEMPORARY EROSION CONTROL SYSTEMS |
| 515001-04 | NAME PLATE FOR BRIDGES |
| 542301-03 | PRECAST REINFORCED CONCRETE FLARED END SECTION |
| 542401-04 | METAL FLARED END SECTION FOR PIPE CULVERTS |
| 630001-12 | STEEL PLATE BEAM GUARDRAIL |
| 630111-01 | WEAK POST GUARDRAIL ATTACHED TO CULVERT |
| 630301-09 | SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS |
| 635001-02 | DELINEATORS |
| 642006-01 | SHOULDER RUMBLE STRIPS, 8" |
| 666001-01 | RIGHT OF WAY MARKERS |
| 667101-02 | PERMANENT SURVEY MARKERS |
| 701201-05 | LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH |
| 701301-04 | LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS |
| 701306-04 | LANE CLOSURE, 2L 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥45 MPH |
| 701311-03 | LANE CLOSURE, 2L 2W, MOVING OPERATIONS-DAY ONLY |
| 701321-18 | LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER |
| 701326-04 | LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥45 MPH |
| 701901-08 | TRAFFIC CONTROL DEVICES |
| 704001-08 | TEMPORARY CONCRETE BARRIER |
| 725001-01 | OBJECT AND TERMINAL MARKERS |
| 780001-05 | TYPICAL PAVEMENT MARKINGS |
| 782006-01 | GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS |
| 353001-05 | PCC BASE COURSE WITH HMA BINDER AND SURFACE COURSE |
| 420001-10 | PAVEMENT JOINTS |
| 781001-04 | TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS |


COMMITMENTS


- NO TREE REMOVAL SHALL OCCUR FROM APRIL 1ST TO SEPTEMBER 30TH OF ANY GIVEN CALENDAR YEAR.


MIXTURE REQUIREMENTS

LOCATION(S):	MAINLINE SURFACE MIX AND TOP 1.5" OF SHOULDERS
MIXTURE USE(S):	MIX HMA SURFACE COURSE & TOP (1.5") SHOULDERS
PG:	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N50
MIXTURE COMPOSITION:	IL-9.5
FRICITION AGGREGATE:	Mix "C"
QUALITY MANAGEMENT:	QC/QA
SUBLOT SIZE:	N/A
LOCATION(S):	MAINLINE BINDER MIX
MIXTURE USE(S):	MIX HMA BINDER COURSE
PG:	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N50
MIXTURE COMPOSITION:	IL-9.5FG
FRICITION AGGREGATE:	N/A
QUALITY MANAGEMENT:	QC/QA
SUBLOT SIZE:	N/A
LOCATION(S):	BASE COURSE FOR STAGE CONSTRUCTION & LOWER LIFT OF SHOULDER
MIXTURE USE(S):	MIX HMA SHOULDERS (LOWER LIFTS) & BASE COURSE
PG:	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N50
MIXTURE COMPOSITION:	IL-19.0
FRICITION AGGREGATE:	N/A
QUALITY MANAGEMENT:	QC/QA
SUBLOT SIZE:	N/A

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT 6**

EXAMINED August 5 20 21

 ENGINEER OF OPERATIONS

EXAMINED August 6 20 21

 ENGINEER OF PROJECT IMPLEMENTATION

EXAMINED August 9 20 21

 ENGINEER OF PROGRAM DEVELOPMENT

REV. - MS

6-00390-0000

6-00391-0000

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE		
				STP FUNDING 100% FED		
				BOX CULVERT 0010	BOX CULVERT 0010	REALIGNMENT 0004
				S.N. 059-2513	S.N. 059-2509	S.N. 059-7039
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	692	20	111	561
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	265	147	100	18
20100500	TREE REMOVAL, ACRES	ACRE	2.5	1.75	0.5	0.25
20200100	EARTH EXCAVATION	CU YD	14327	7781	3833	2713
25000200	SEEDING, CLASS 2	ACRE	8	3	3	2
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	720	270	270	180
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	720	270	270	180
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	720	270	270	180
25000700	AGRICULTURAL GROUND LIMESTONE	TON	16	6	6	4
25100115	MULCH, METHOD 2	ACRE	8	3	3	2
28000305	TEMPORARY DITCH CHECKS	FOOT	2228	251	1602	375
28000400	PERIMETER EROSION BARRIER	FOOT	355	355	0	0
28000500	INLET AND PIPE PROTECTION	EACH	5	1	3	1
28100205	STONE RIPRAP, CLASS A3	TON	285	192	60	33

REV. - MS

REV-SEP

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USER NAME = cancel	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -		325	(114,116)B-2,3,4	MACOUPIN	194	3				
PLOT DATE = 8/19/2021	CHECKED -	REVISED -		SCALE:	SHEET OF SHEETS	STA.	TO STA.	CONTRACT NO. 72B64				
DATE -	REVISED -	REVISED -						ILLINOIS FED. AID PROJECT				

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				S.N. 059-2513	S.N. 059-2509	S.N. 059-7039
28100207	STONE RIPRAP, CLASS A4	TON	4942	3592	692	658
28200200	FILTER FABRIC	SQ YD	7412	5387	1038	987
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	230	129	101	0
35800100	PREPARATION OF BASE	SQ YD	36	0	36	0
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	53	23	30	0
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	86	0	86	0
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	6005	2503	3502	0
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	53	0	53	0
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	121	121	0	0
40600990	TEMPORARY RAMP	SQ YD	54	27	27	0
40602965	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50	TON	541	224	317	0
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	650	269	381	0
40800029	BITUMINOUS MATERIALS (TACK COAT)	POUND	49	38	11	0
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	16	7	9	0

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PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	(114,116)B-2,3,4	MACOUPIN	194	4
PLOT DATE = 8/19/2021	CHECKED -	REVISED -		CONTRACT NO. 72B64									
	DATE -	REVISED -		ILLINOIS FED. AID PROJECT									

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				STP FUNDING 100% FED		
				BOX CULVERT 0010 S.N. 059-2513	BOX CULVERT 0010 S.N. 059-2509	REALIGNMENT 0004 S.N. 059-7039
44000100	PAVEMENT REMOVAL	SQ YD	380	216	164	0
44004250	PAVED SHOULDER REMOVAL	SQ YD	1005	578	427	0
48203023	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	SQ YD	3256	1309	1947	0
48203100	HOT-MIX ASPHALT SHOULDERS	TON	321	144	177	0
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1	0	0
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1	0	1	0
50104400	CONCRETE HEADWALL REMOVAL	EACH	11	3	2	6
50105220	PIPE CULVERT REMOVAL	FOOT	296	35	142	119
50800105	REINFORCEMENT BARS	POUND	54.2	54.2	0	0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	98700	28380	70320	0
50800515	BAR SPLICERS	EACH	128		128	
51500100	NAME PLATES	EACH	2	1	1	0
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	838	771	67	0
52200600	GEOTEXTILE RETAINING WALL	SQ FT	380	380	0	0
54001003	BOX CULVERT END SECTIONS, CULVERT NO. 3	EACH	1	1	0	0

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REV. - MS

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				S.N. 059-2513	S.N. 059-2509	S.N. 059-7039
54002020	EXPANSION BOLTS 3/4 INCH	EACH	8	8		
54003000	CONCRETE BOX CULVERTS	CU YD	557.3	177.6	379.7	0
54010404	PRECAST CONCRETE BOX CULVERTS 4' X 4'	FOOT	20	20	0	0
54011210	PRECAST CONCRETE BOX CULVERTS 12' X 10'	FOOT	270	270	0	0
542A1069	PIPE CULVERTS, CLASS A, TYPE 2 24"	FOOT	124	124	0	0
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	253	0	134	119
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2	2	0	0
54248510	CONCRETE COLLAR	CU YD	0.50	0.50	0	0
54262715	METAL FLARED END SECTIONS 15"	EACH	8	0	4	4
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	213	0	0	213
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	0	0	3
63200310	GUARDRAIL REMOVAL	FOOT	1313	674	564	75
* 63500105	DELINEATORS	EACH	4	0	0	4
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	4973	1952	3021	0
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	32	15	17	0

* SPECIALTY ITEM

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PLOT DATE = 8/19/2021	CHECKED -	REVISED -		CONTRACT NO. 72B64									
	DATE -	REVISED -		ILLINOIS FED. AID PROJECT									

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				S.N. 059-2513	S.N. 059-2509	S.N. 059-7039
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	4	4	1
67100100	MOBILIZATION	L SUM	1	0.5	0.5	0
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2	1	1	0
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5	0.5	0
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.5	0.5	0
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.5	0.5	0
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	1	1	0
70106700	TEMPORARY RUMBLE STRIPS	EACH	18	12	6	0
70300100	SHORT TERM PAVEMENT MARKING	FOOT	600	248	352	0
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	100	41	59	0
70400100	TEMPORARY CONCRETE BARRIER	FOOT	913	500	413	0
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	913	500	413	0
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	2	2	0
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	2	2	0
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	3	0	0	3

* SPECIALTY ITEM

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* 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	7462	2700	4762	0
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	38	16	22	0
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8	0	0	8
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	38	16	22	0
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	439	216	223	
X0324744	REMOVAL OF EXISTING PRECAST CONCRETE UNITS	SQ FT	748	449	299	0
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	8119	3418	4701	0
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	44	22	22	0
Z0002900	BASE COURSE (OPTION)	SQ YD	1027	578	449	
Ø Z0076600	TRAINEES	HOUR	1500	1500		
Z0023602	GRANULAR CULVERT BACKFILL	CU YD	2484	1462	1022	0
Ø Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1500	1500		
Z0065796	RIPRAP SLURRY	SQ YD	6300	3997	1219	1084

* SPECIALTY ITEM

Ø 0042

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PLOT DATE = 8/19/2021	CHECKED -	REVISED -		CONTRACT NO. 72B64									
	DATE -	REVISED -		ILLINOIS FED. AID PROJECT									

HMA RESURFACING SCHEDULE

PAY ITEM NUMBER				X4401198	40602965	40604050	40600290	
LOCATION	STATION TO STATION	LENGTH (FT)	WIDTH (FT)	AREA (SQ YD)	HOT-MIX ASPHALT SURF. REM., VARIABLE DEPTH (SQ YD)	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50 (1 1/4") (TON)	HOT-MIX ASPHALT SURFACE COURSE, IL 9.5, MIX "C", N50 (1 1/2") (TON)	BITUMINOUS MATERIALS (TACK CT) (POUND)
SN 059-2513								
EASTBOUND								
STA. 622+00.00 TO STA. 634+00.00		1,200.00	12	1600.0	1600.0	112.0	134.4	1080.0
WESTBOUND								
STA. 622+00.00 TO STA. 634+00.00		1,200.00	12	1600.0	1600.0	112.0	134.4	1080.0
SN 059-2509								
EASTBOUND								
STA. 689+50.00 TO STA. 706+50.00		1,700.00	12	2266.7	2266.7	158.7	190.4	1530.0
WESTBOUND								
STA. 689+50.00 TO STA. 706+50.00		1,700.00	12	2266.7	2266.7	158.7	190.4	1530.0
TOTAL					7,733.3	541.3	649.6	5,220.0

HMA REPLACEMENT SCHEDULE

PAY ITEM NUMBER				44000100	Z0002900	31101000
STATION TO STATION	LENGTH (FT)	WIDTH (FT)	AREA (SQ YD)	PAVEMENT REMOVAL (SQ YD)	BASE CSE (OPTION) 12" (SQ YD)	SUB-BASE GRAN. MAT. TY B, (8") (TON)
SN 059-2513						
EASTBOUND						
STA. 628+90.00 TO STA. 630+25.00	135.00	12	180	108.0	180.0	64.3
WESTBOUND						
STA. 628+90.00 TO STA. 630+25.00	135.00	12	180	108.0	180.0	64.3
SUBTOTAL				216.0	360.0	128.6
SN 059-2509						
EASTBOUND						
STA. 700+68.25 TO STA. 701+73.75	105.50	12	141	82.0	140.7	50.3
WESTBOUND						
STA. 700+68.25 TO STA. 701+73.75	105.50	12	141	82.0	140.7	50.3
SUBTOTAL				164.0	281.3	100.5
TOTAL				380	641	229

TEMPORARY RAMP SCHEDULE

PAY ITEM NUMBER			40600990
LOCATION STATION	LENGTH (FT)	WIDTH (FT)	AREA (SQ YD)
FAP 325 (IL 16)			
622+00.00	5	24	13.33
634+00.00	5	24	13.33
689+50.00	5	24	13.33
706+50.00	5	24	13.33
TOTAL			53.4

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
FAP 325 (IL 16)**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	9
CONTRACT NO. 72B64				

SCALE: SHEET OF SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

SHOULDER IMPROVEMENT SCHEDULE

PAY ITEM NUMBER		44004250	Z0002900	X4401198	48203023	48203100	48203100	40600290	64200108		
LOCATION	STATION TO STATION	LENGTH (FT)	PROPOSED WIDTH (FT)	PAVED SHOULDER REMOVAL (SQ YD)	BASE CSE (OPTION) 10.75" (SQ YD)	HOT-MIX ASPHALT SURF. REM., VARIABLE DEPTH (SQ YD)	HOT-MIX ASPHALT SHOULDERS, 6.5" (SQ YD)	HOT-MIX ASPHALT SHOULDERS, 1.5" (TON)	HOT-MIX ASPHALT SHOULDERS, 2.75" (TON)	BITUMINOUS MATERIALS (TACK COAT) (POUND)	SHOULDER RUMBLE STRIPS, 8" (FT)
SN 059-2513											
EASTBOUND											
STA. 622+00.00	TO STA. 626+37.00	437.00	4				194	16		44	437
STA. 626+37.00	TO STA. 633+00.00	663.00	10				737	62		166	663
STA. 633+00.00	TO STA. 634+00.00	100.00	4				44	4		10	100
STA. 627+33.26	TO STA. 629+18.88	185.62	6	124							
STA. 629+69.05	TO STA. 631+82.87	213.82	8	190							
SUB - TOTAL				314	0	0	975	82	0	219	1200
WESTBOUND											
STA. 622+00.00	TO STA. 627+66.00	566.00	4				252	21		57	566
STA. 627+25.00	TO STA. 632+14.50	489.50	4		218	218			34	49	
STA. 632+14.50	TO STA. 634+00.00	185.50	4				82	7		19	186
STA. 627+35.58	TO STA. 629+46.61	211.03	6	141							
STA. 629+97.32	TO STA. 631+81.59	184.27	6	123							
SUB - TOTAL				264	218	218	334	28	34	124	752
SN 059-2509											
EASTBOUND											
STA. 689+50.00	TO STA. 693+26.53	376.53	4				167	14		38	377
STA. 693+26.53	TO STA. 696+20.88	294.35	6				196	16		44	294
STA. 696+20.88	TO STA. 706+50.00	1,029.12	8				915	77		206	1029
STA. 699+50.00	TO STA. 701+21.94	171.94	6	115							
STA. 701+49.32	TO STA. 703+03.64	154.32	6	103							
SUB - TOTAL				218	0	0	1278	107	0	288	1700
WESTBOUND											
STA. 689+50.00	TO STA. 693+73.47	423.47	4				188	16		42	423
STA. 693+73.47	TO STA. 697+41.50	368.03	6				245	21		55	368
STA. 697+41.50	TO STA. 699+31.50	190.00	4				84	7		19	190
STA. 699+31.50	TO STA. 703+10.50	379.00	4		168	168			26	38	
STA. 703+10.50	TO STA. 706+50.00	339.50	4				151				340
STA. 699+58.00	TO STA. 700+93.17	135.17	6	90							
STA. 701+20.91	TO STA. 702+99.22	178.31	6	119							
SUB - TOTAL				209	168	168	669	44	26	154	1321
TOTAL				1004	386	386	3257	261	59	786	4973

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
FAP 325 (IL 16)			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	10
CONTRACT NO. 72B64				
ILLINOIS FED. AID PROJECT				

TREE REMOVAL SCHEDULE

PAY ITEM NUMBER		20100110	20100210	20100500
LOCATION STATION	LOCATION (RT / LT)	TREE REMOVAL (6 TO 15 UNITS) (UNITS)	TREE REMOVAL (OVER 15 UNITS) (UNITS)	TREE REMOVAL (ACRES)
IL 16 (SN 059-2513)				
STA. 623+74.00	RT		18.0	
STA. 624+42.00	RT	20.0	112.0	
STA. 625+77.20	RT		17.0	
621+88.09 TO STA. 630+34.49	RT			1.6
SUB-TOTAL =		20.0	147.0	1.6
IL 16 (SN 059-7039 REALIGNMENT)				
STA. 694+98.00	LT	33.0		
STA. 695+11.31	LT	69.0		
STA. 695+20.92	LT	79.0		
STA. 695+85.00	LT	13.0		
STA. 696+23.00	LT	128.0		
STA. 696+43.00	LT	94.0		
STA. 697+03.00	LT	38.0		
STA. 697+45.00	LT	8.0		
STA. 698+61.00	LT	44.0	18.0	
STA. 699+21.00	LT	6.0		
STA. 699+86.00	LT	49.0		
STA. 694+56.00 TO STA. 696+15.00	RT			0.2
SUB-TOTAL =		561.0	18.0	0.2
IL 16 (SN 059-2509)				
STA. 699+66.00	LT	13		
STA. 700+06.00	LT	12.0		
STA. 700+51.00	LT	27.0		
STA. 701+00.00	LT	16.0	17.0	
STA. 701+48.00	LT	9.0	17.0	
STA. 701+96.00	LT	20.0		
STA. 700+79.00	RT	14.0	66.0	
701+12.50 TO STA. 703+05.00	RT			0.4
SUB-TOTAL =		111.0	100.0	0.4
TOTAL		692.0	265.0	2.2

EARTHWORK SCHEDULE

PAY ITEM NUMBER		20200100		WASTE (+) SHORTAGE (-)	
STATION TO STATION	LOCATION	EARTH EX (CU YD) CUT	(CU YD) SHRINKAGE	(CU YD) FILL	(CU YD) BALANCE
FAP 662 (IL 4)					
SN 059-2513					
STA. 622+00.00 TO STA. 634+00.00	RT & LT	7781	5836	7848	-2012
SN 059-7039 REALIGNMENT					
STA. 689+00.00 TO STA. 699+00	RT & LT	2713	2035	1049	986
SN 059-2509					
STA. 699+00.00 TO STA. 707+00	RT & LT	3833	2875	1479	1396
(SHRINKAGE FACTOR=25%) TOTAL =		14327			370

RIPRAP SCHEDULE

PAY ITEM NUMBER		28100205	28100207	28200200	Z0065796	
LOCATION STATION TO STATION	LENGTH (FT)	WIDTH (FT)	STONE RIPRAP, CLASS A3 (TONS)	STONE RIPRAP, CLASS A4 (TONS)	FILTER FABRIC (SQYD)	RIPRAP SLURRY (SQYD)
SN 059-2513						
RIGHT						
STA. 622+50.00 TO STA. 623+15.00	65.0	14.0	37.7			
STA. 623+15.00 TO STA. 629+64.00	649.0	60.0		2905.6	4358.4	
STA. 622+50.00 TO STA. 624+50.00	200.0	60.0				1191.2
STA. 627+50.00 TO STA. 629+64.00	214.0	60.0				1312.8
LEFT						
STA. 628+50.00 TO STA. 629+30.00	80.0	25.0	63.3			
STA. 629+00.00 TO STA. 630+48.00	148.0	88.0		685.9	1028.9	1493.3
STA. 630+45.00 TO STA. 631+50.00	105.0	25.0	91.2			
SUB-TOTAL =			192.1	3591.6	5387.3	3997.3
SN 059-7039 REALIGNMENT						
RIGHT						
STA. 694+00.00 TO STA. 695+18.30	118.3	6.0	26.7			80.0
STA. 695+17.00 TO STA. 695+42.00	25.0	70.0		114.6	171.9	171.8
STA. 695+40.00 TO STA. 695+68.00	28.0	6.0	6.0			17.8
LEFT						
STA. 694+70.00 TO STA. 696+65.00	195.0	39.0		543.1	814.7	814.7
SUB-TOTAL =			32.6	657.7	986.6	1084.3
SN 059-2509						
RIGHT						
STA. 700+73.00 TO STA. 701+72.00	99.0	8.0	28.3			84.8
STA. 701+44.00 TO STA. 702+88.00	144.0	38.0		419.9	629.9	629.9
STA. 702+05.00 TO STA. 703+50.00	145.0	6.0	32.0			96.1
LEFT						
STA. 699+92.00 TO STA. 700+98.00	106.0	45.0		272.2	408.3	408.3
SUB-TOTAL =			60.3	692.1	1038.2	1219.2
TOTAL			285	4941	7412	6301

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
FAP 325 (IL 16)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	11
			CONTRACT NO. 72B64	
ILLINOIS FED. AID PROJECT				

ENTRANCE SCHEDULE

PAY ITEM NUMBER				40600985	40600982	35800100	40800050	40800029	40200800		
LOCATION	WIDTH ACROSS FRONT (FT)	WIDTH ACROSS BACK (FT)	LENGTH FROM EDGE OF HMA SHLD (FT)	AREA (SQ YD)	EXIST. SURF. TYPE	PCC SURF. REMOVAL BUTT-JOINT (SQ YD)	HMA SURF. REMOVAL BUTT-JOINT (SQ YD)	PREPARATION OF BASE (SQ YD)	INCIDENTAL HOT-MIX ASPH. SURF. (TON)	BIT MAT (TACK COAT) (POUND)	AGG SURF CSE, TY B 6IN (TON)
SN 059-2513											
STA. 625+07.00	F.E.	LT.	37.4	23.5	10	37	AGG				10
STA. 625+66.00	C.E.	LT.	80.5	52	11.5	85	CONC	121		7	33
STA. 630+82.29	P.E.	RT.	22.5	9.5	48	66	AGG				13
SUB-TOTAL						121	0	0	7	38	23
SN 059-2509											
STA. 692+25.19	P.E.MBT	LT.	65.5	48.4	4	25	HMA		53		6
STA. 692+49.56	P.E.	RT.	29.7	22.3	4	12	AGG		12	2	7
STA. 696+00.00	F.E.	RT.	23	17	35.5	74	AGG				9
STA. 700+35.47	F.E.	RT.	24.5	19	21	43	AGG				5
STA. 704+01.17	P.E.MBT	LT.	63.7	46.6	4	24	AGG	24	5		3
SUB-TOTAL						0	53	36	9	11	30
TOTAL						121	53	36	16	49	53

GUARDRAIL SCHEDULE

PAY ITEM NUMBER				63200310	63000001	63100167	78200005	72501000	63500105
LOCATION STATION TO STATION	LENGTH (FT)	GUARDRAIL REMOVAL (FT)	SPBG TY. A 6' POST (FT)	TR. BAR. TERM., TY 1 (SPL.) TAN. (EACH)	GUARDRAIL REFLECTORS TY. A (EACH)	TERMINAL MARKER-D.A. (EACH)	DELINEATORS (EACH)		
SN 059-2513 (EXISTING)									
STA. 627+35.00 LT TO STA. 630+68.00 LT	333.00	333.0							
STA. 628+42.00 RT TO STA. 631+83.00 RT	341.00	341.0							
SN 059 7039 (EXISTING)									
STA. 694+59.08 LT TO STA. 694+84.06 LT	24.98	25.0							
STA. 695+83.07 LT TO STA. 696+08.06 LT	24.99	25.0							
STA. 694+58.95 RT TO STA. 694+83.96 RT	25.01	25.0							
SN 059-7039 (PROPOSED)									
STA. 693+96.64 LT TO STA. 694+84.14 LT	87.50		37.5	1.0	2.0	1.0	1.0		
STA. 695+83.08 LT TO STA. 697+20.58 LT	137.50		87.5	1.0	2.0	1.0	1.0		
STA. 693+46.51 RT TO STA. 694+84.01 RT	137.50		87.5	1.0	2.0	1.0	1.0		
STA. 695+58.62 RT TO STA. 695+78.25 RT	19.63				2.0		1.0		
SN 059-2509 (EXISTING)									
STA. 699+65.68 LT TO STA. 702+90.78 LT	325.10	325.1							
STA. 700+50.00 RT TO STA. 702+88.60 RT	238.60	238.6							
TOTAL				1,313	212.5	3.0	8.0	3.0	4.0

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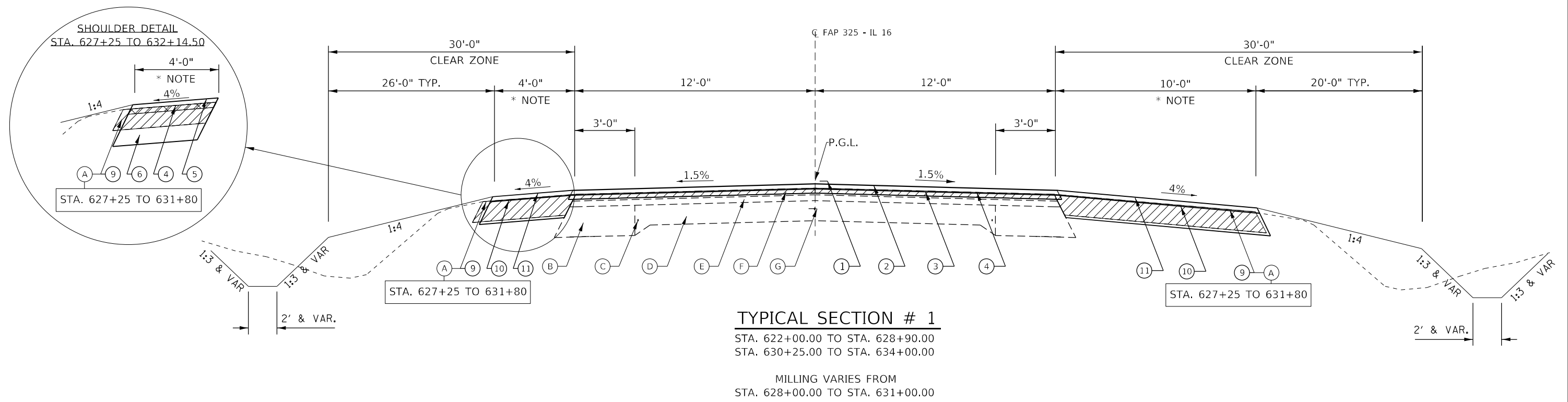
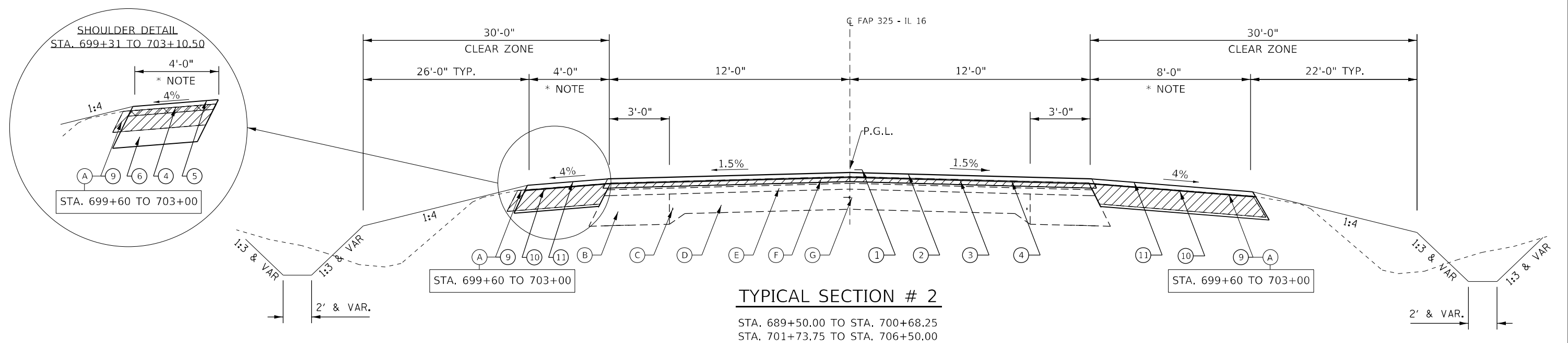
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
FAP 325 (IL 16)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	12
CONTRACT NO. 72B64				
ILLINOIS FED. AID PROJECT				



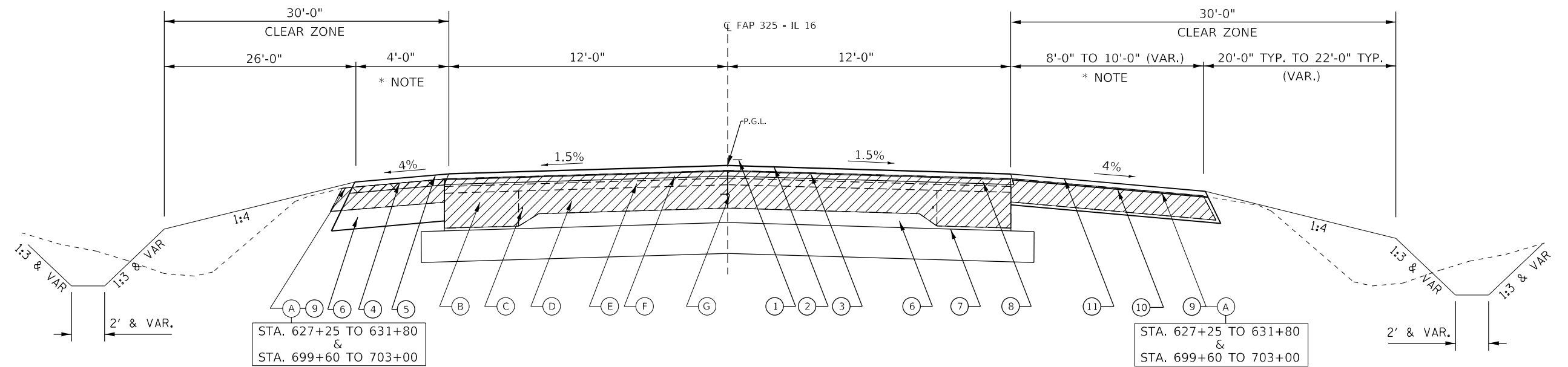
LEGEND

- | | | |
|--|---|--|
| (A) EXIST. BITUMINOUS SHOULDER (6" MIN) | (1) PROP. PAVEMENT MARKING | (7) PROP. SUB BASE GRANULAR MATERIAL, TY B, 8" |
| (B) EXIST. BITUMINOUS CONCRETE BASE COURSE WIDENING 9" | (2) PROP. HMA SURFACE COURSE, IL 9.5, MIX "C" N50 (1 1/2") | (8) PROP. PAVEMENT REMOVAL |
| (C) EXIST. 3/4" DIA SMOOTH BAR | (3) PROP. HMA BINDER COURSE, IL 9.5FG, N50 (1 1/4") | (9) PROP. PAVED SHOULDER REMOVAL |
| (D) EXIST. 18" PCC PAV T | (4) PROP. HMA SURFACE REMOVAL VARIABLE DEPTH (1 1/2" TYP.) | (10) PROP. HMA SHOULDERS, (6 1/2" SQYD) |
| (E) EXIST. BITUMINOUS CONCRETE BINDER COURSE, (1 3/4") | (5) PROP. HMA SHOULDERS, (2 3/4" TON) | (11) PROP. HMA SHOULDERS, (1 1/2" TON) |
| (F) EXIST. BITUM. CON. SURFACE COURSE MIX "D", CLASS 1, (1 1/4") | (6) PROP. HMA BASE CSE (OPTION),
(10 3/4" ON SHOULDERS & 12" ON TRAFFIC LANES) | |
| (G) EXIST. METAL JOINT & 1/2" TIE BAR | | |

*** NOTE:**
 SEE SCHEDULE FOR SHOULDER
 WIDTH LIMITS & PR IMPROVEMENTS

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PLOT DATE = 8/18/2021	CHECKED -	REVISED -											CONTRACT NO. 72B64		
	DATE -	REVISED -											ILLINOIS	FED. AID PROJECT	



TYPICAL SECTION # 3

STA. 628+90.00 TO STA. 630+25.00
 STA. 700+68.25 TO STA. 701+73.75

MILLING VARIES FROM
 STA. 628+00.00 TO STA. 631+00.00

LEGEND

- | | | |
|--|---|--|
| (A) EXIST. BITUMINOUS SHOULDER (6" MIN) | (1) PROP. PAVEMENT MARKING | (7) PROP. SUB BASE GRANULAR MATERIAL, TY B, 8" |
| (B) EXIST. BITUMINOUS CONCRETE BASE COURSE WIDENING 9" | (2) PROP. HMA SURFACE COURSE, IL 9.5, MIX "C" N50 (1 1/2") | (8) PROP. PAVEMENT REMOVAL |
| (C) EXIST. 3/4" DIA SMOOTH BAR | (3) PROP. HMA BINDER COURSE, IL 9.5FG, N50 (1 1/4") | (9) PROP. PAVED SHOULDER REMOVAL |
| (D) EXIST. 18" PCC PAV T | (4) PROP. HMA SURFACE REMOVAL VARIABLE DEPTH (1 1/2" TYP.) | (10) PROP. HMA SHOULDERS, (6 1/2" SQYD) |
| (E) EXIST. BITUMINOUS CONCRETE BINDER COURSE, (1 3/4") | (5) PROP. HMA SHOULDERS, (2 3/4" TON) | (11) PROP. HMA SHOULDERS, (1 1/2" TON) |
| (F) EXIST. BITUM. CON. SURFACE COURSE MIX "D", CLASS 1, (1 1/4") | (6) PROP. HMA BASE CSE (OPTION),
(10 3/4" ON SHOULDERS & 12" ON TRAFFIC LANES) | |
| (G) EXIST. METAL JOINT & 1/2" TIE BAR | | |

*** NOTE:**
 SEE SCHEDULE FOR SHOULDER
 WIDTH LIMITS & PR IMPROVEMENTS

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PLOT DATE = 8/18/2021	DATE -	REVISOR -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTION SHEETS FAP 325 (IL 16)			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114, 116)B-2,3,4	MACOUPIN	194	17
CONTRACT NO. 72B64			ILLINOIS FED. AID PROJECT	

PAVEMENT REMOVAL LEGEND



OWNER: CHARLES W WILSON
PARCEL NO. 6119120

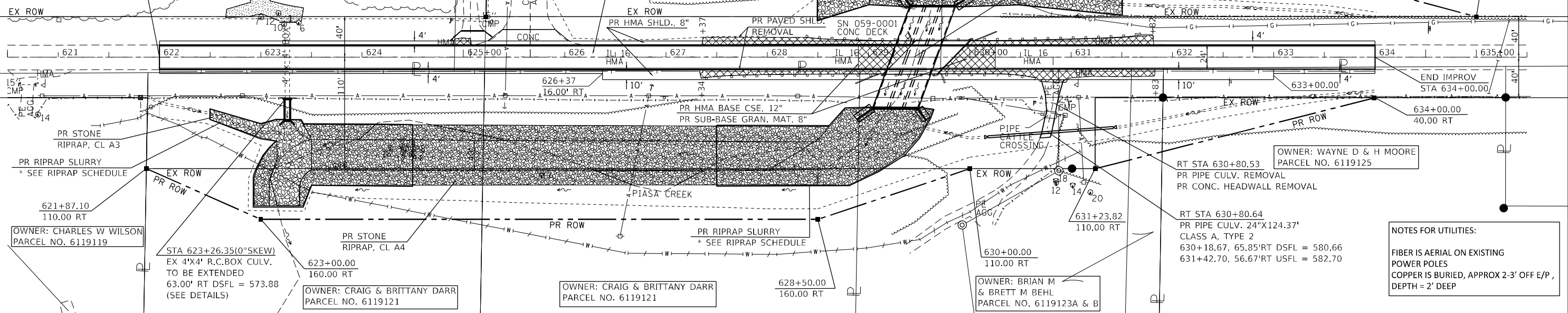
OWNER: TRICIA & REGINA NEJMANNOWSKI
PARCEL NO. 6119126

OWNER: MJM ELECTRIC COOP INC
PARCEL NO. 6119122

OWNER: ANNADELIA T FRANCO ET AL
PARCEL NO. 6119124

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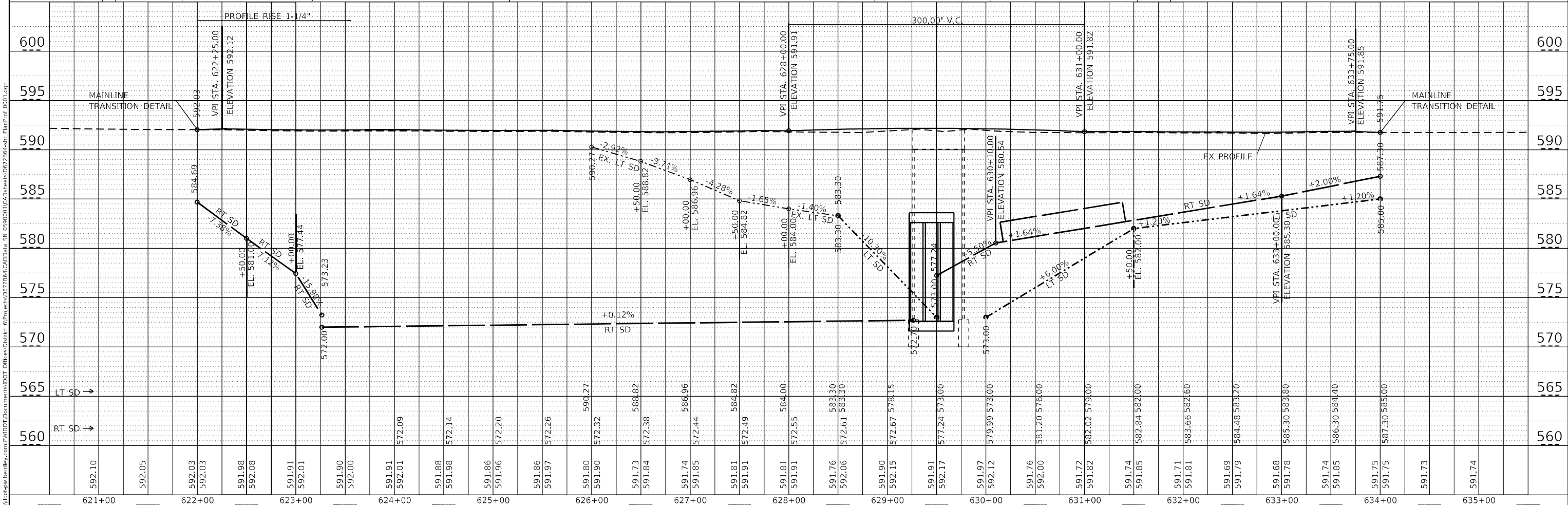
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STA 634+00.00



NOTES FOR UTILITIES:
FIBER IS AERIAL ON EXISTING
POWER POLES
COPPER IS BURIED, APPROX 2-3' OFF E/P,
DEPTH = 2' DEEP

DATE	
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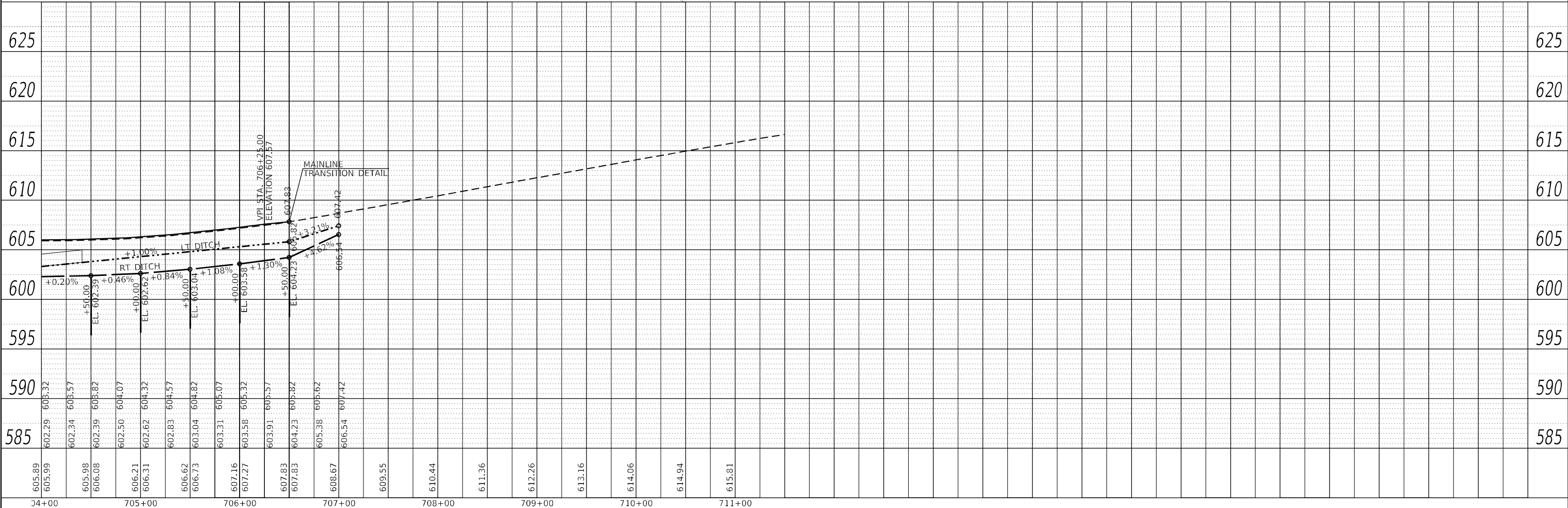
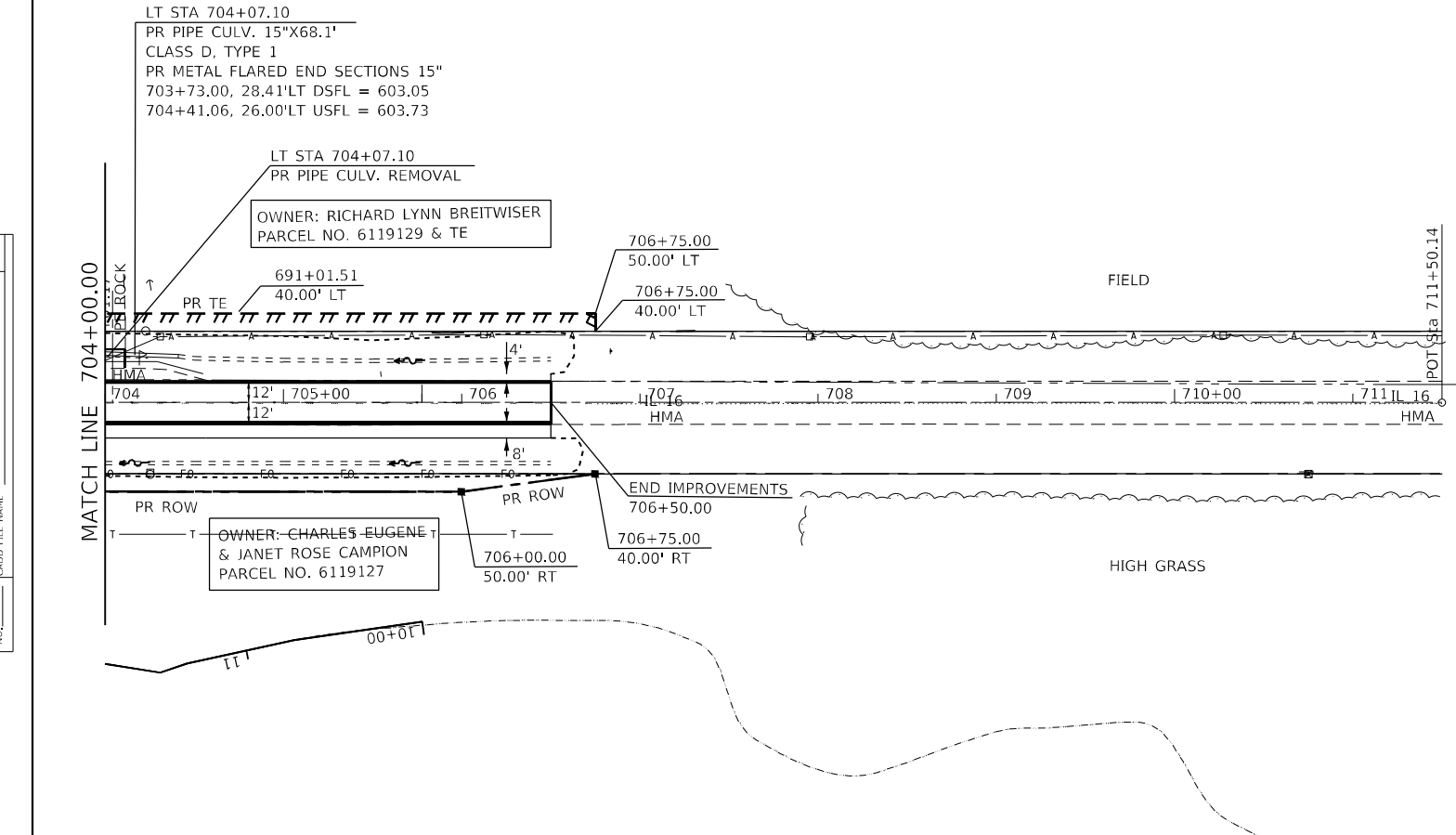


USER NAME = cancel	DESIGNED -	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p align="center">PROPOSED PLAN & PROFILE SHEETS (SN 059-2513)</p>	F.A.P. RTE. 325	SECTION (114,116)B-2,3,4	COUNTY MACOUPIN	TOTAL SHEETS 194	SHEET NO. 18
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -		SCALE: _____	SHEET _____ OF _____ SHEETS		CONTRACT NO. 72B64	
PLOT DATE = 10/27/2021	DATE -	REVISED -		STATION TO STA. _____		ILLINOIS FED. AID PROJECT		



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

PROFILE	SURVEYED	DATE
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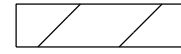
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED PLAN & PROFILE SHEETS (SN 059-2509)

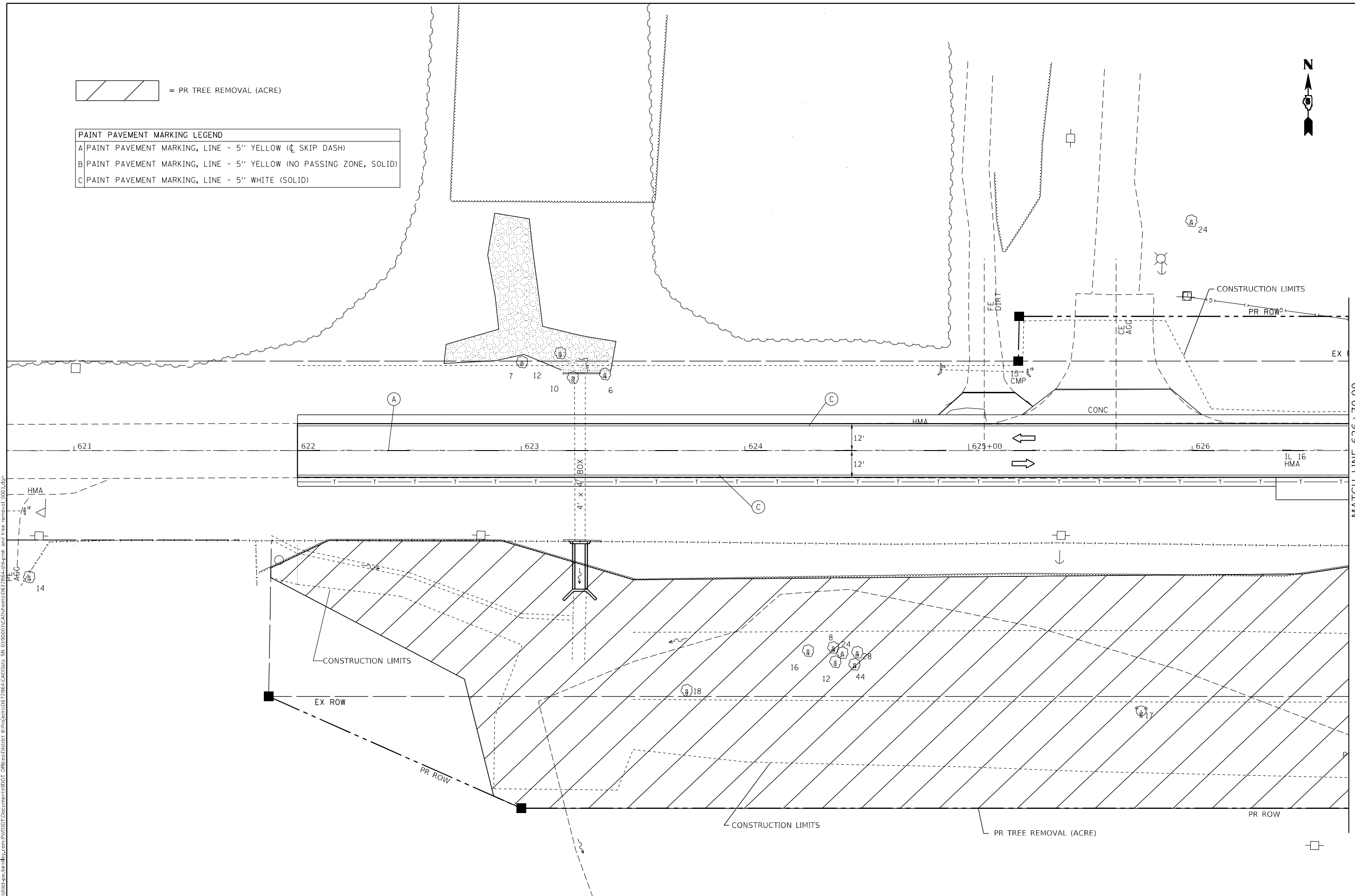
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	20
CONTRACT NO. 72B64				

ILLINOIS FED. AID PROJECT

 = PR TREE REMOVAL (ACRE)

PAINT PAVEMENT MARKING LEGEND	
A	PAINT PAVEMENT MARKING, LINE - 5" YELLOW (SKIP DASH)
B	PAINT PAVEMENT MARKING, LINE - 5" YELLOW (NO PASSING ZONE, SOLID)
C	PAINT PAVEMENT MARKING, LINE - 5" WHITE (SOLID)



MODEL: Default
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 PLOT DATE: 8/18/2021


USER NAME = cancel	DESIGNED -	REVISED -
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

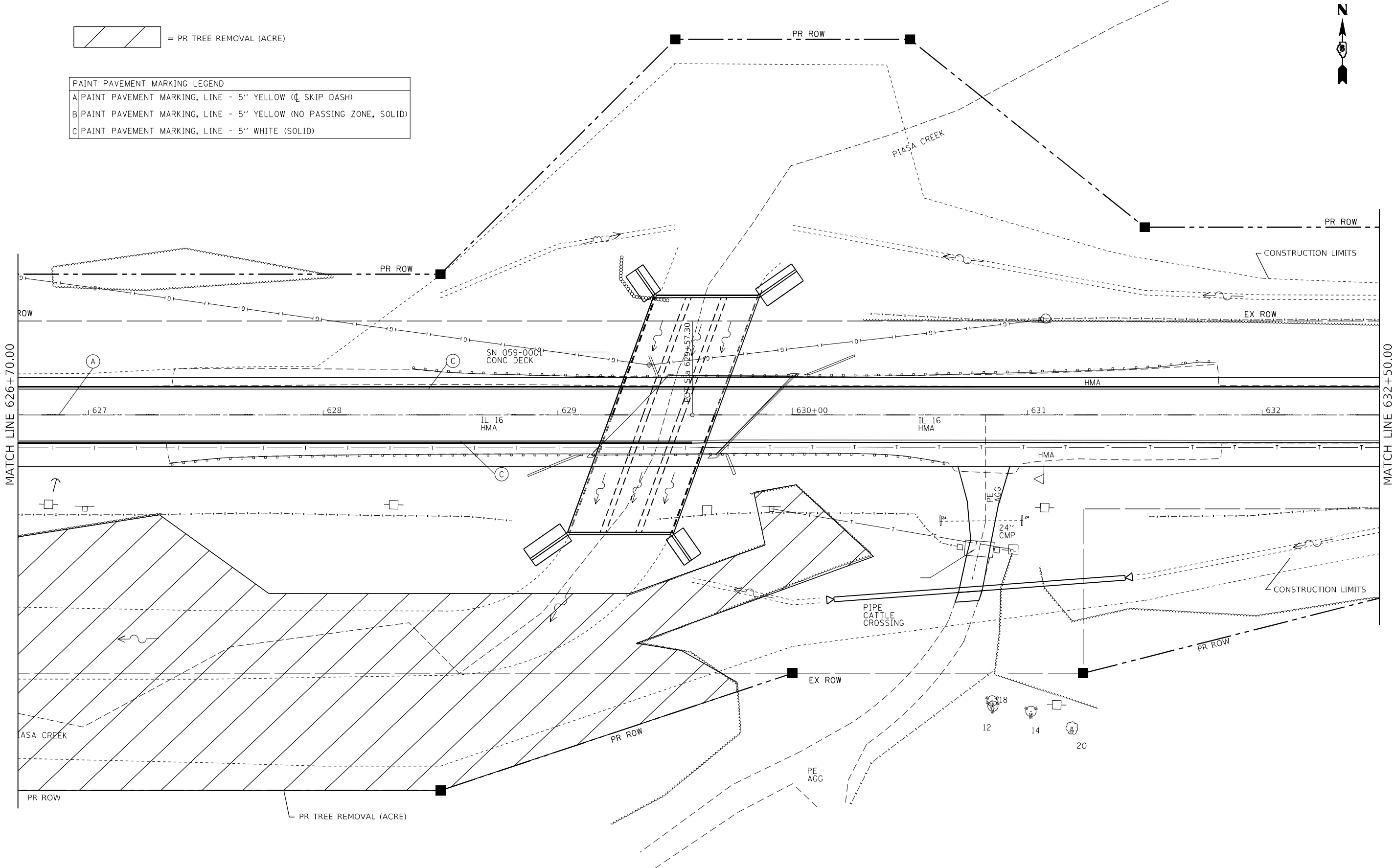
PAVEMENT MARKING AND TREE REMOVAL PLAN SHEETS (SN 059-2513)
FAP 325 (IL 16)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	21
CONTRACT NO. 72B64			ILLINOIS FED. AID PROJECT	

SCALE: SHEET OF SHEETS STA. TO STA.

 = PR TREE REMOVAL (ACRE)

PAINT PAVEMENT MARKING LEGEND	
A	PAINT PAVEMENT MARKING, LINE - 5" YELLOW (Ø SKIP DASH)
B	PAINT PAVEMENT MARKING, LINE - 5" YELLOW (NO PASSING ZONE, SOLID)
C	PAINT PAVEMENT MARKING, LINE - 5" WHITE (SOLID)



MATCH LINE 626+70.00

MATCH LINE 632+50.00



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USER NAME =	rodriguezmenendezw	DESIGNED -		REVISED -	
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

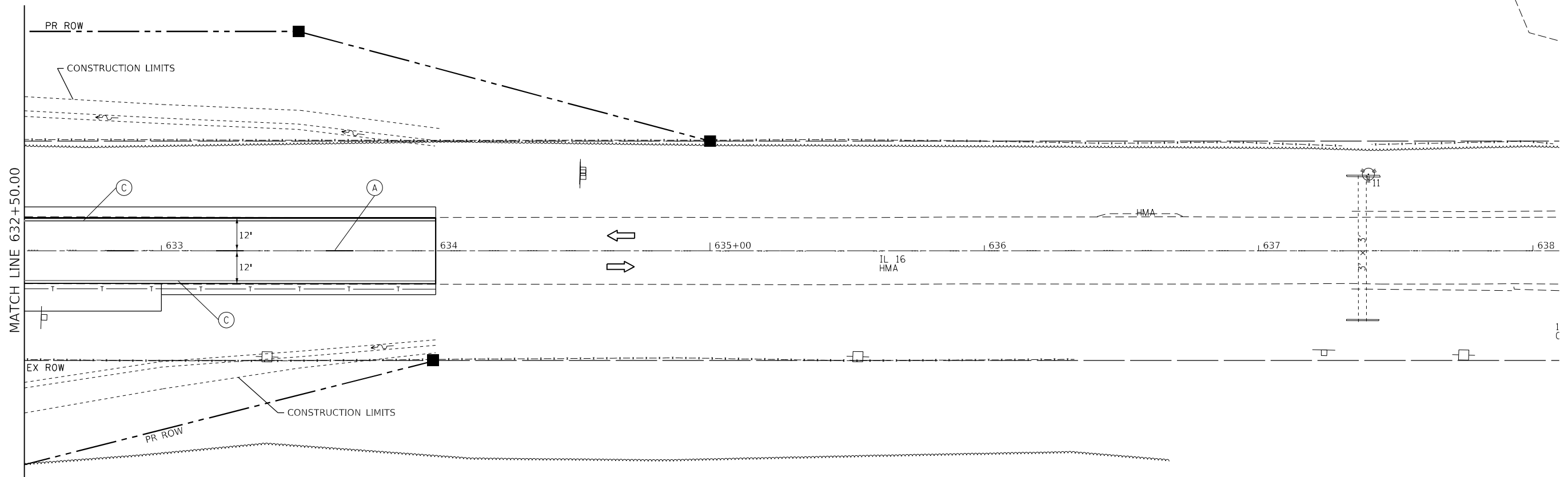
**PAVEMENT MARKING AND TREE REMOVAL PLAN SHEETS (SN 059-2513)
FAP 325 (IL 16)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	22
CONTRACT NO. 72B64				
ILLINOIS FED. AID PROJECT				

 = PR TREE REMOVAL (ACRE)

PAINT PAVEMENT MARKING LEGEND	
A	PAINT PAVEMENT MARKING, LINE - 5" YELLOW (C SKIP DASH)
B	PAINT PAVEMENT MARKING, LINE - 5" YELLOW (NO PASSING ZONE, SOLID)
C	PAINT PAVEMENT MARKING, LINE - 5" WHITE (SOLID)



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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND TREE REMOVAL PLAN SHEETS (SN 059-2513)
FAP 325 (IL 16)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	23
CONTRACT NO. 72B64				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

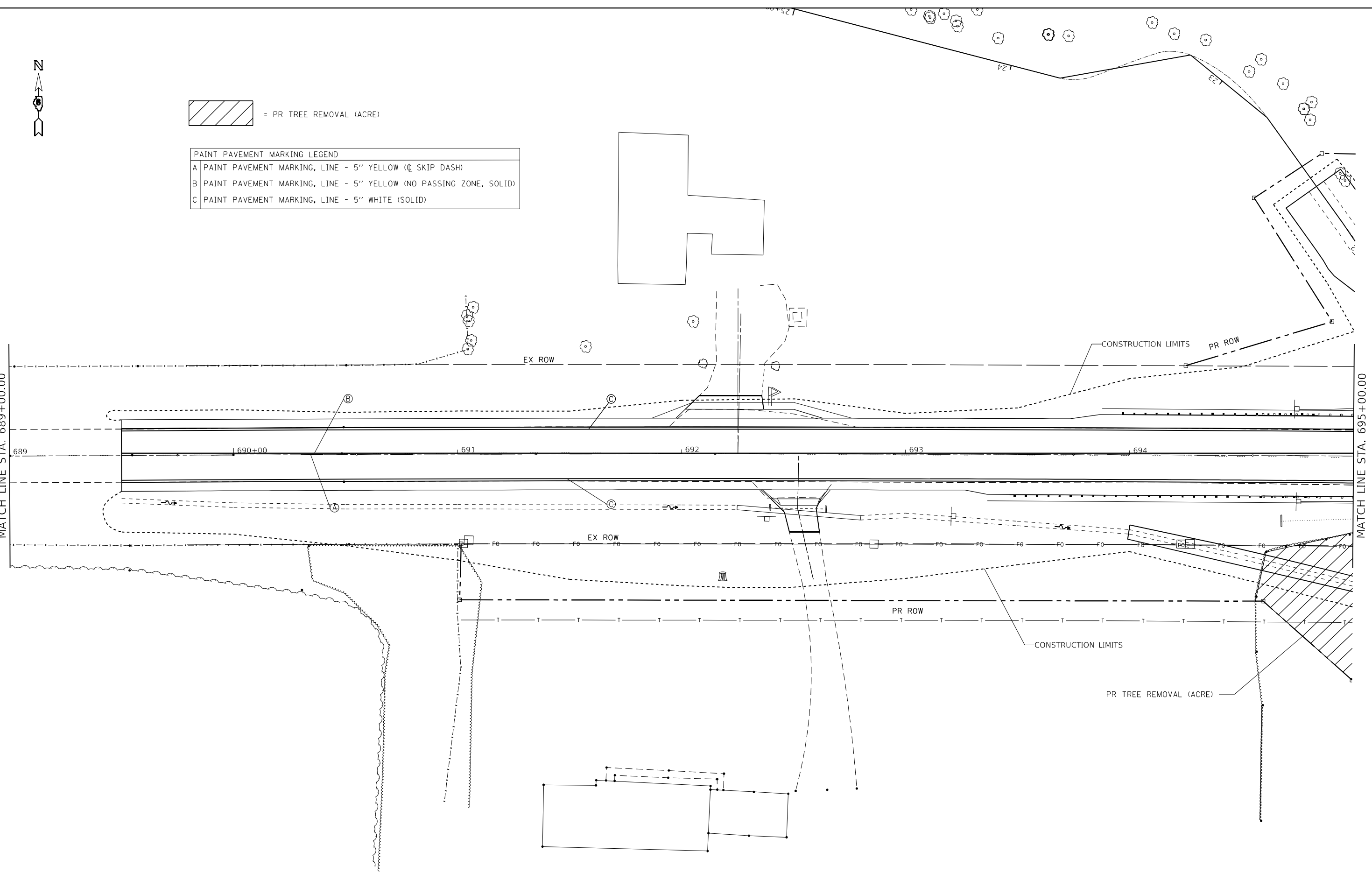


 = PR TREE REMOVAL (ACRE)

PAINT PAVEMENT MARKING LEGEND	
A	PAINT PAVEMENT MARKING, LINE - 5" YELLOW (Ø SKIP DASH)
B	PAINT PAVEMENT MARKING, LINE - 5" YELLOW (NO PASSING ZONE, SOLID)
C	PAINT PAVEMENT MARKING, LINE - 5" WHITE (SOLID)

MATCH LINE STA. 689+00.00

MATCH LINE STA. 695+00.00



MODEL: Default
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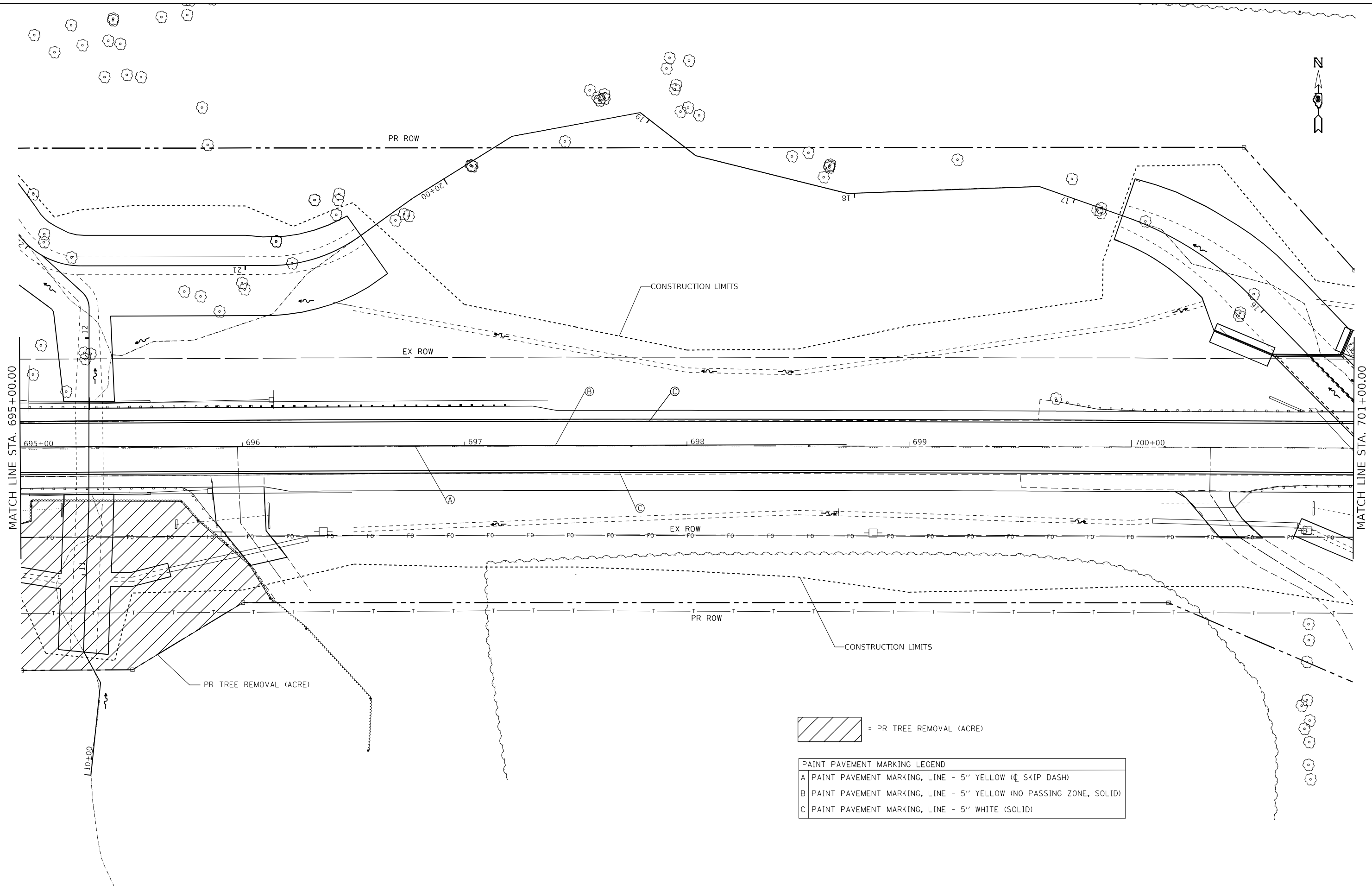
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PLOT DATE = 8/18/2021	DATE - _____	REVISOR - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND TREE REMOVAL PLAN SHEETS (SN 059-2509)
FAP 325 (IL 16)**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	24
CONTRACT NO. 72B64				
ILLINOIS FED. AID PROJECT				

SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____



 = PR TREE REMOVAL (ACRE)

PAINT PAVEMENT MARKING LEGEND	
A	PAINT PAVEMENT MARKING, LINE - 5" YELLOW (☺ SKIP DASH)
B	PAINT PAVEMENT MARKING, LINE - 5" YELLOW (NO PASSING ZONE, SOLID)
C	PAINT PAVEMENT MARKING, LINE - 5" WHITE (SOLID)

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USER NAME = cancels	DESIGNED - _____	REVISED - _____
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PLOT DATE = 8/18/2021	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND TREE REMOVAL PLAN SHEETS (SN 059-2509)
FAP 325 (IL 16)

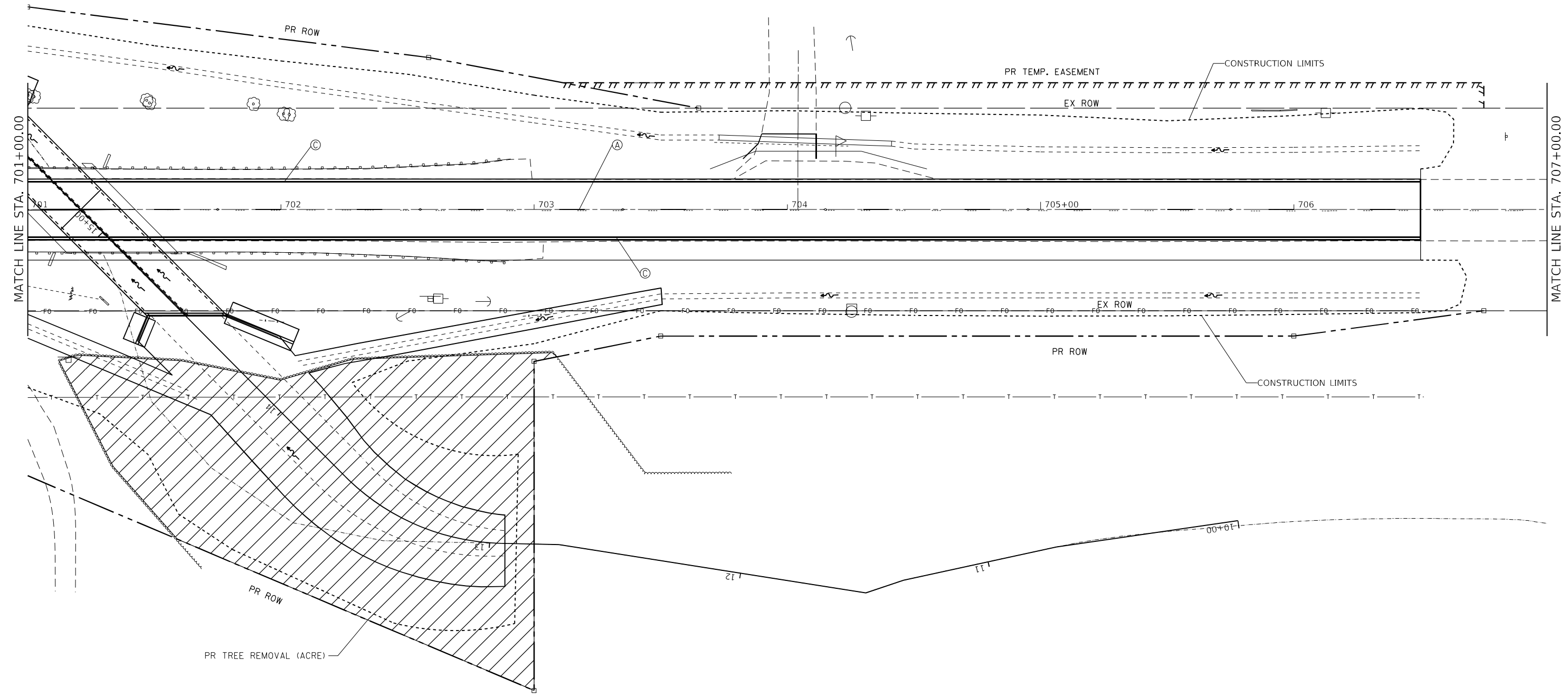
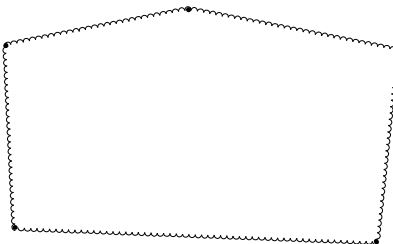
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	25
			CONTRACT NO. 72B64	
ILLINOIS FED. AID PROJECT				

SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____



 = PR TREE REMOVAL (ACRE)

PAINT PAVEMENT MARKING LEGEND	
A	PAINT PAVEMENT MARKING, LINE - 5" YELLOW (C SKIP DASH)
B	PAINT PAVEMENT MARKING, LINE - 5" YELLOW (NO PASSING ZONE, SOLID)
C	PAINT PAVEMENT MARKING, LINE - 5" WHITE (SOLID)



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 PLOT DATE: 8/18/2021

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	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

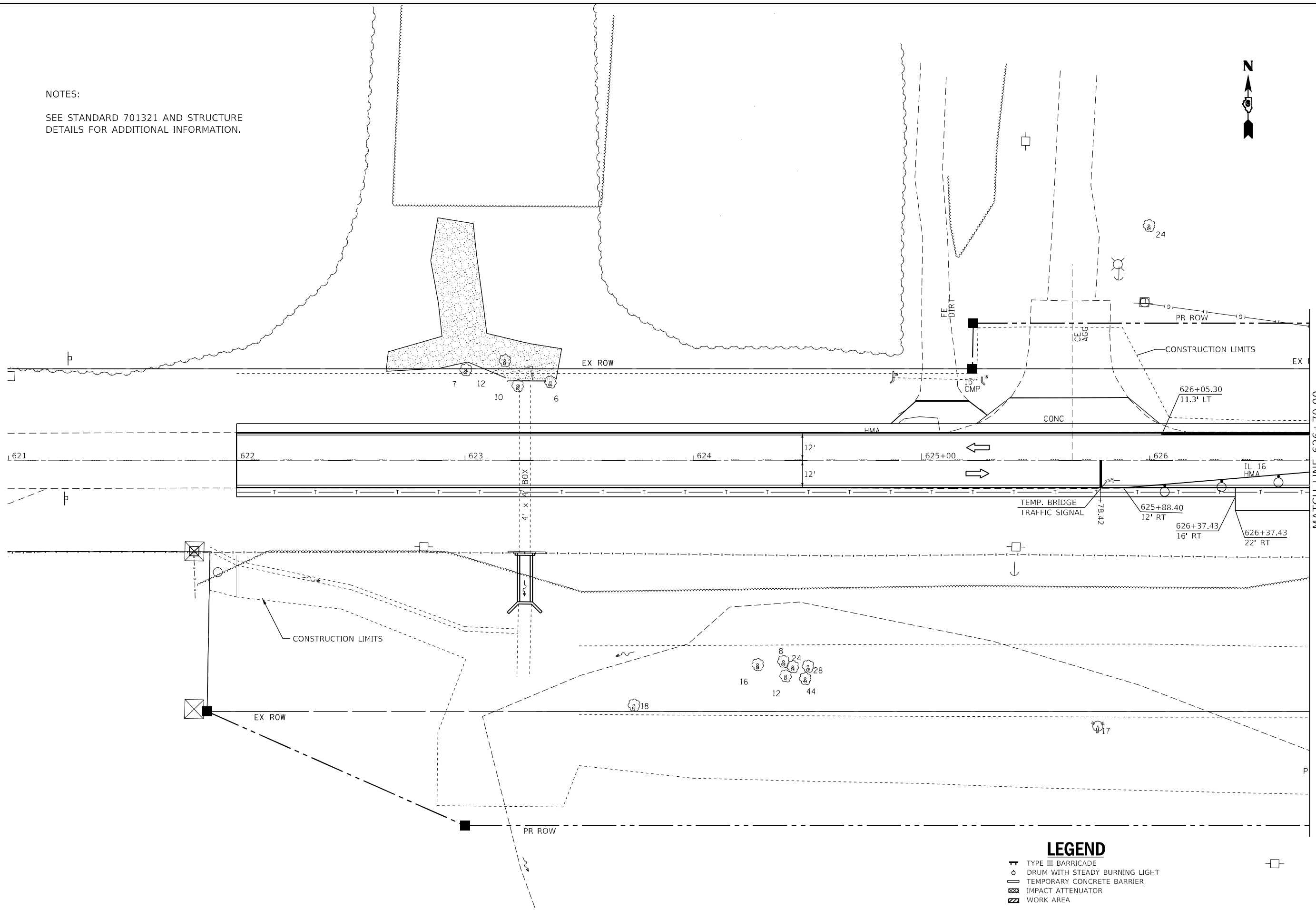
**PAVEMENT MARKING AND TREE REMOVAL PLAN SHEETS (SN 059-2509)
FAP 325 (IL 16)**

SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOPIN	194	26
CONTRACT NO. 72B64			ILLINOIS FED. AID PROJECT	

NOTES:

SEE STANDARD 701321 AND STRUCTURE
DETAILS FOR ADDITIONAL INFORMATION.



LEGEND

- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- WORK AREA

MODEL: Traffic Control.dwg
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DRAWN -	REVISOR -	REVISOR -
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PLOT DATE = 8/18/2021	DATE -	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

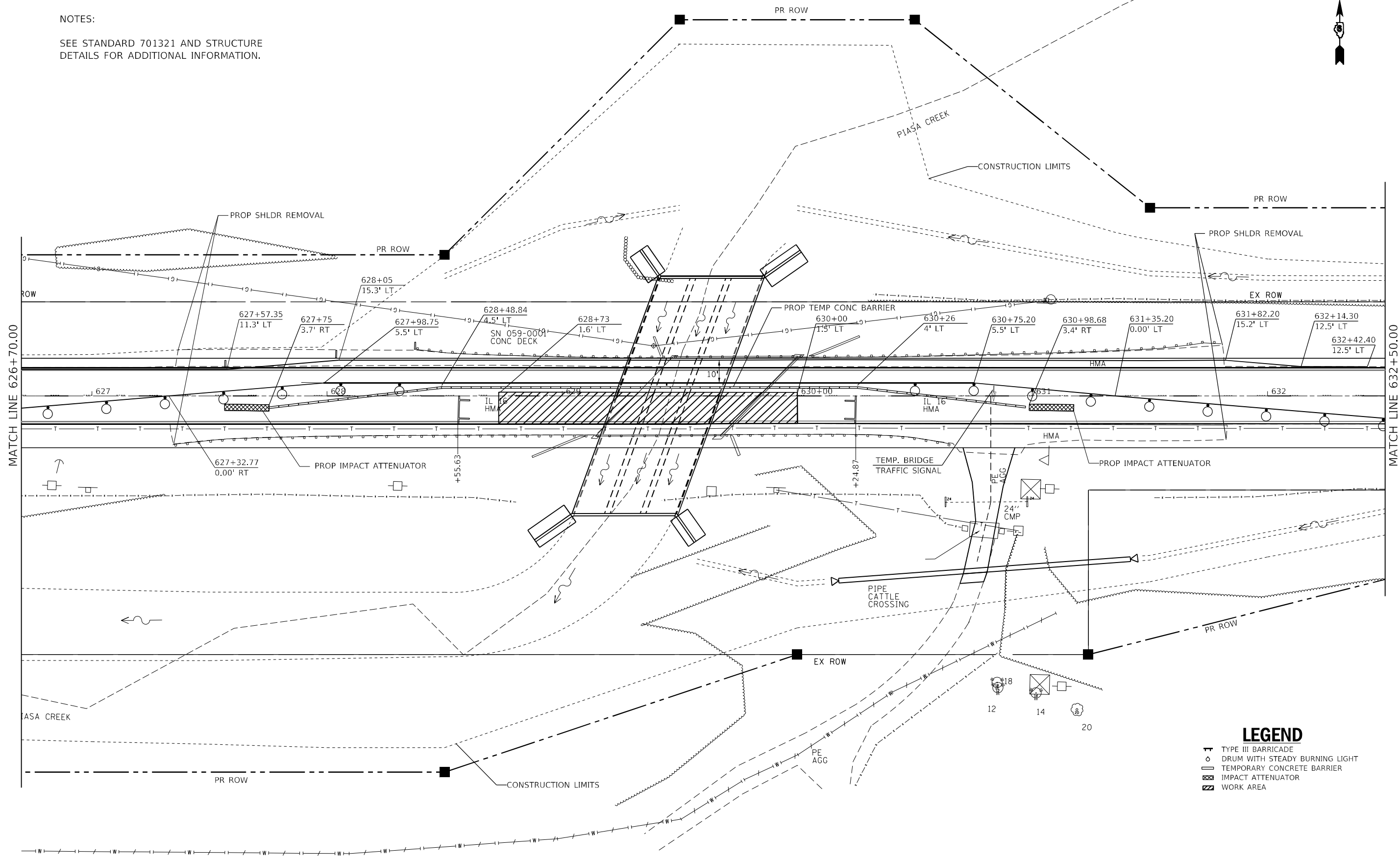
STAGE I TRAFFIC CONTROL PLAN SHEET - SN: 059-2513

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	27
CONTRACT NO. 72B64			ILLINOIS FED. AID PROJECT	

NOTES:

SEE STANDARD 701321 AND STRUCTURE
DETAILS FOR ADDITIONAL INFORMATION.



LEGEND

- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- WORK AREA

MODEL: Traffic Control
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 DATE: 9/3/2021

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DRAWN -	REVISOR -	REVISION -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

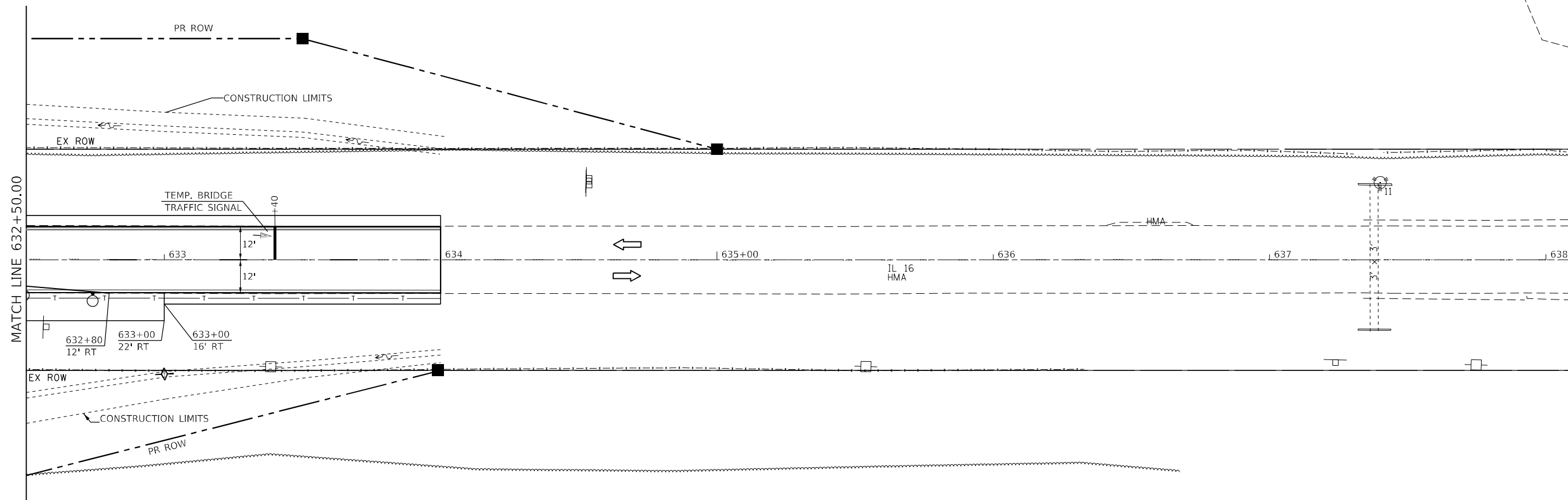
STAGE I TRAFFIC CONTROL PLAN SHEET - SN: 059-2513

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	28
CONTRACT NO. 72B64			ILLINOIS FED. AID PROJECT	

NOTES:

SEE STANDARD 701321 AND STRUCTURE DETAILS FOR ADDITIONAL INFORMATION.



LEGEND

- ▬ TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- ▭ TEMPORARY CONCRETE BARRIER
- ▨ IMPACT ATTENUATOR
- ▩ WORK AREA

MODEL: Traffic Control.dgn
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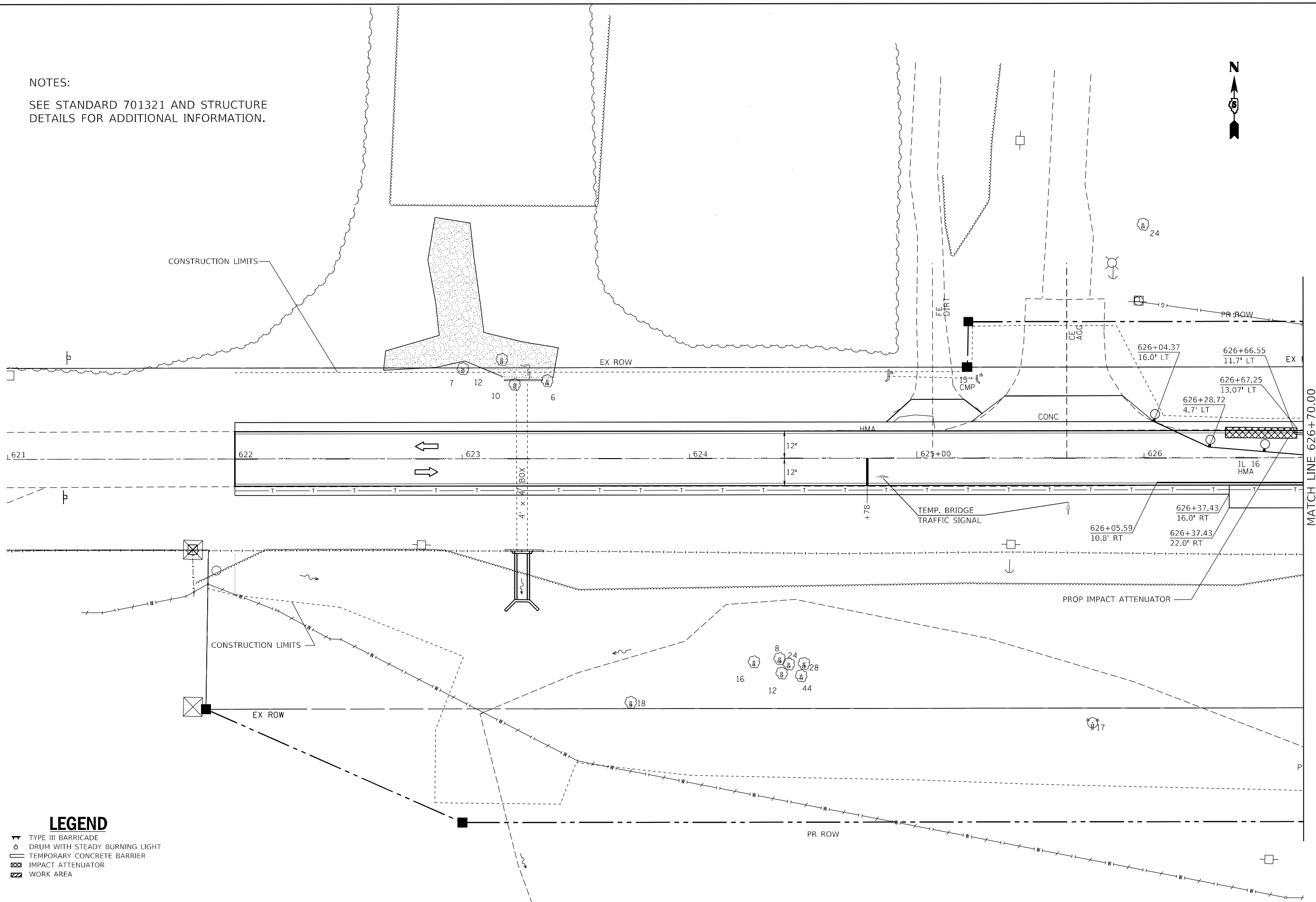
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE I TRAFFIC CONTROL PLAN SHEET - SN: 059-2513

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	29
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72B64	

NOTES:
SEE STANDARD 701321 AND STRUCTURE
DETAILS FOR ADDITIONAL INFORMATION.



- LEGEND**
- TYPE III BARRICADE
 - DRUM WITH STEADY BURNING LIGHT
 - TEMPORARY CONCRETE BARRIER
 - IMPACT ATTENUATOR
 - WORK AREA

MODEL: Traffic Control 1
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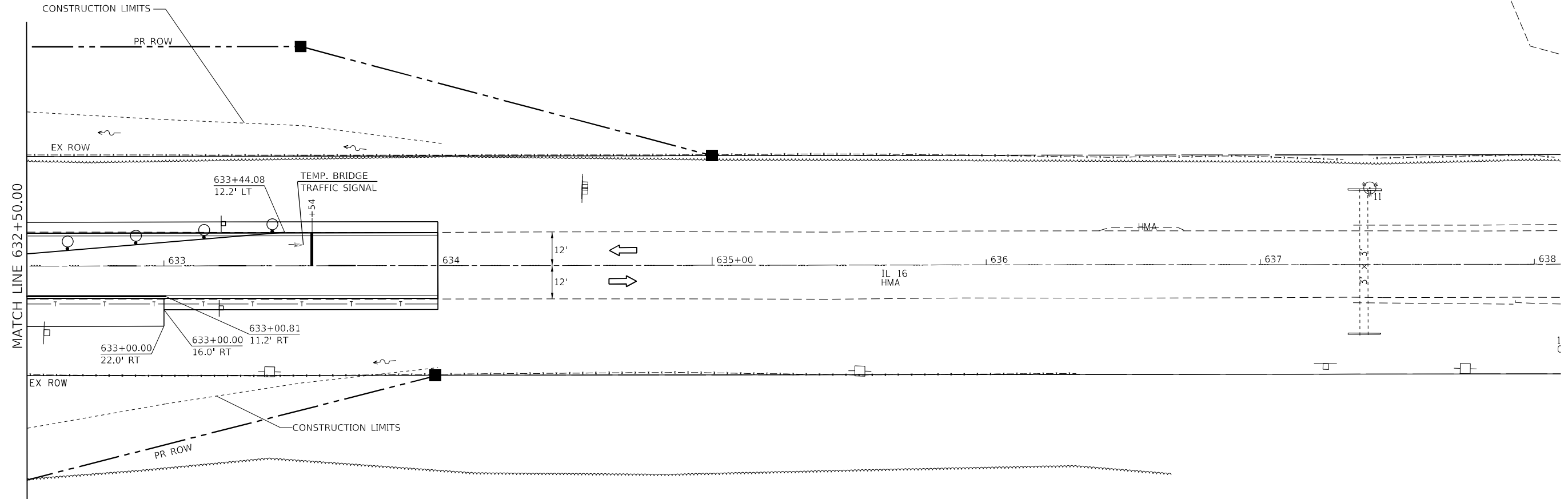
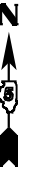
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE II TRAFFIC CONTROL PLAN SHEET - SN: 059-2513

F.A.P. RTE. 325	SECTION (114,116)B-2,3,4	COUNTY MACOUPIN	TOTAL SHEETS 194	SHEET NO. 30
CONTRACT NO. 72B64			ILLINOIS FED. AID PROJECT	

SCALE: SHEET OF SHEETS STA. TO STA.

NOTES:
SEE STANDARD 701321 AND STRUCTURE
DETAILS FOR ADDITIONAL INFORMATION.



LEGEND

- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- WORK AREA

MODEL: Traffic Control 1
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE II TRAFFIC CONTROL PLAN SHEET - SN: 059-2513

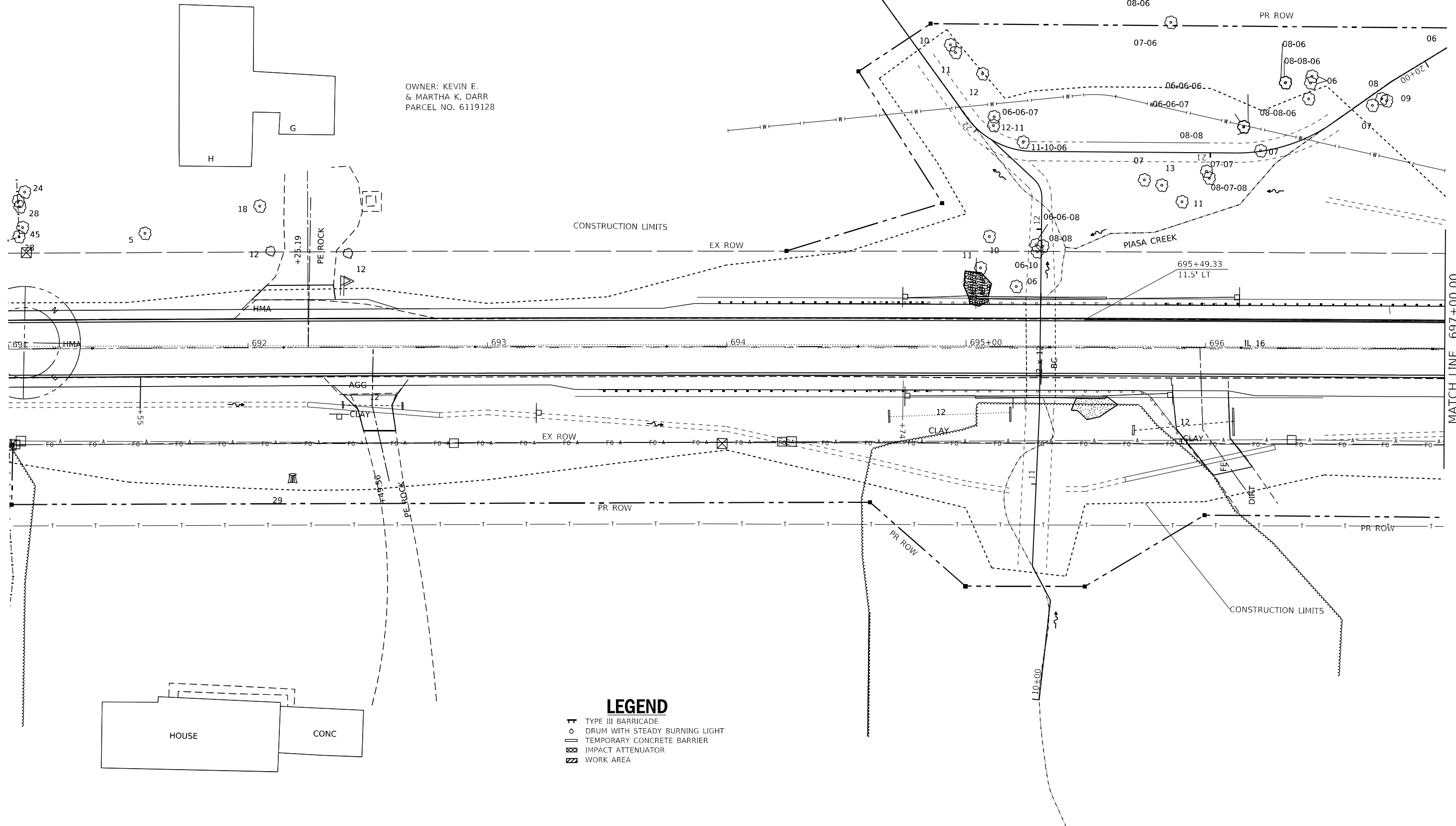
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	32
CONTRACT NO. 72B64				
ILLINOIS FED. AID PROJECT				

NOTES:

SEE STANDARD 701321 AND STRUCTURE DETAILS FOR ADDITIONAL INFORMATION.

OWNER: KEVIN E. & MARTHA K. DARR
PARCEL NO. 6119128



LEGEND

- T TYPE III BARRICADE
- o DRUM WITH STEADY BURNING LIGHT
- - - - - TEMPORARY CONCRETE BARRIER
- ▣ IMPACT ATTENUATOR
- ▨ WORK AREA

MODEL: Default
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PLOT DATE = 8/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 1 TRAFFIC CONTROL PLAN SHEET - SN: 059-2509

SCALE: SHEET OF SHEETS STA. TO STA.

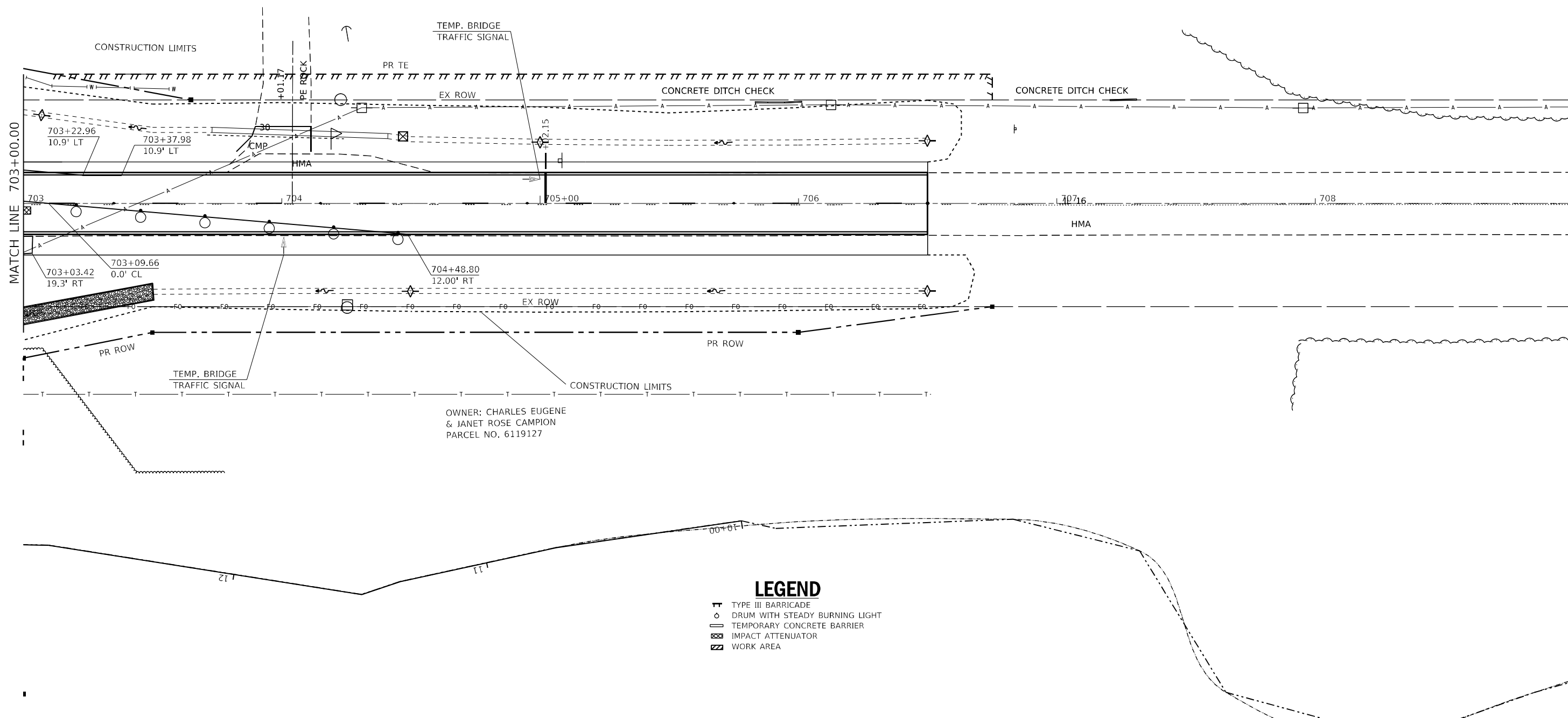
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	33
			CONTRACT NO. 72B64	
ILLINOIS FED. AID PROJECT				



NOTES:

SEE STANDARD 701321 AND STRUCTURE DETAILS FOR ADDITIONAL INFORMATION.

OWNER: RICHARD LYNN BREITWISER
PARCEL NO. 6119129 & TE



OWNER: CHARLES EUGENE
& JANET ROSE CAMPION
PARCEL NO. 6119127

LEGEND

- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR
- WORK AREA

MODEL: Default
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PLOT SCALE = 40,0000 */ in.	DRAWN -	REVISED -
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

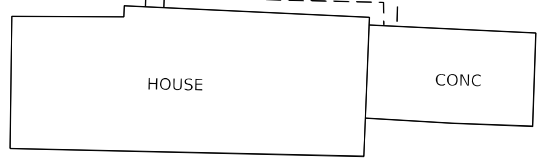
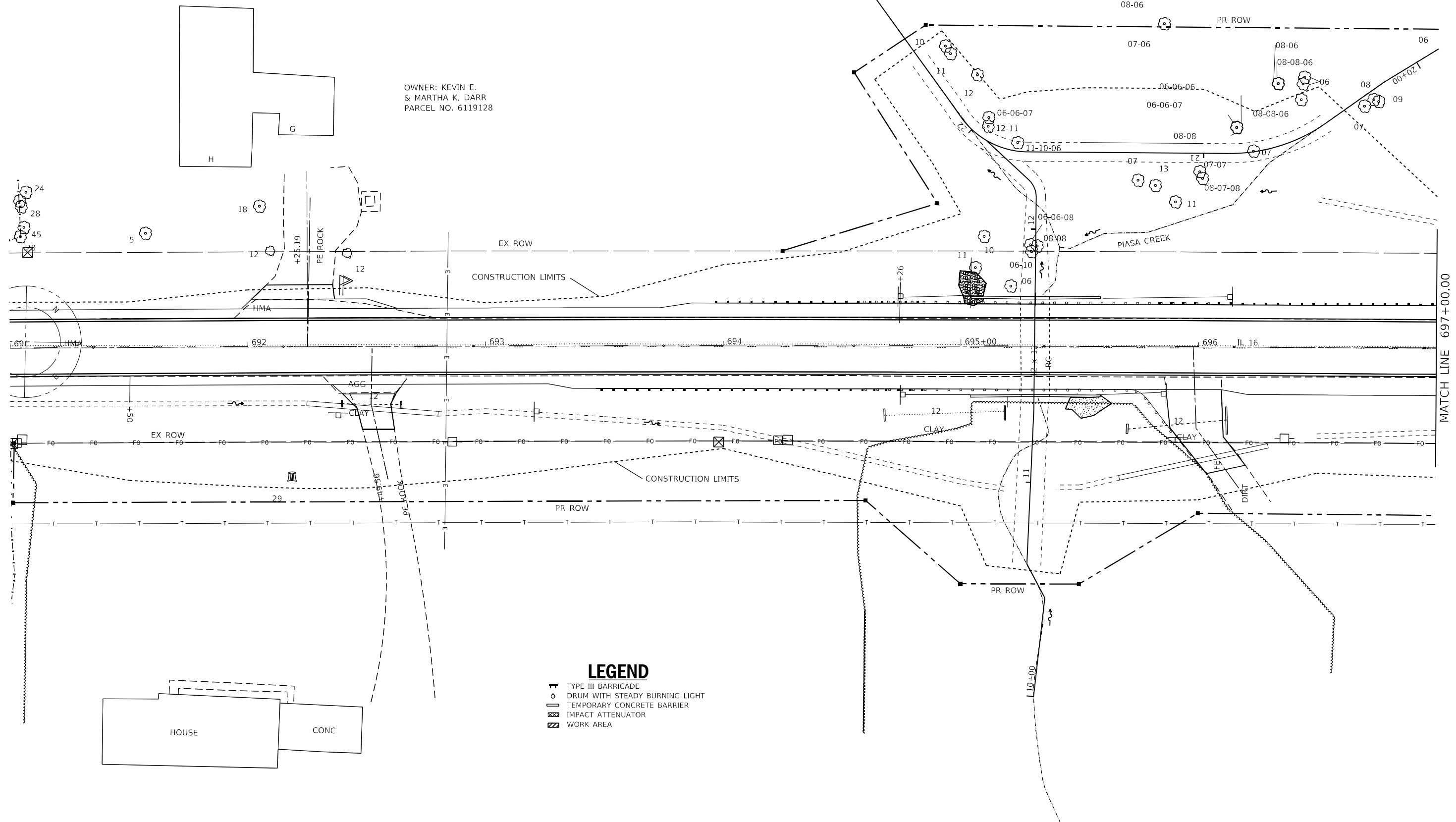
STAGE 1 TRAFFIC CONTROL PLAN SHEET - SN: 059-2509

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	35
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72B64	

NOTES:
 PRIOR TO DIGGING
 THE CONTRACTOR SHALL CONTACT J.U.L.I.E.
 SEE STANDARD 701321 AND STRUCTURE
 DETAILS FOR ADDITIONAL INFORMATION.

OWNER: KEVIN E.
 & MARTHA K. DARR
 PARCEL NO. 6119128



- LEGEND**
- TYPE III BARRICADE
 - DRUM WITH STEADY BURNING LIGHT
 - TEMPORARY CONCRETE BARRIER
 - IMPACT ATTENUATOR
 - WORK AREA

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DRAWN -	REVISOR -	
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 8/18/2021	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STAGE 2 TRAFFIC CONTROL PLAN SHEET - SN: 059-2509

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 325	SECTION (114,116)B-2,3,4	COUNTY MACOUPIN	TOTAL SHEETS 194	SHEET NO. 36
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72B64	

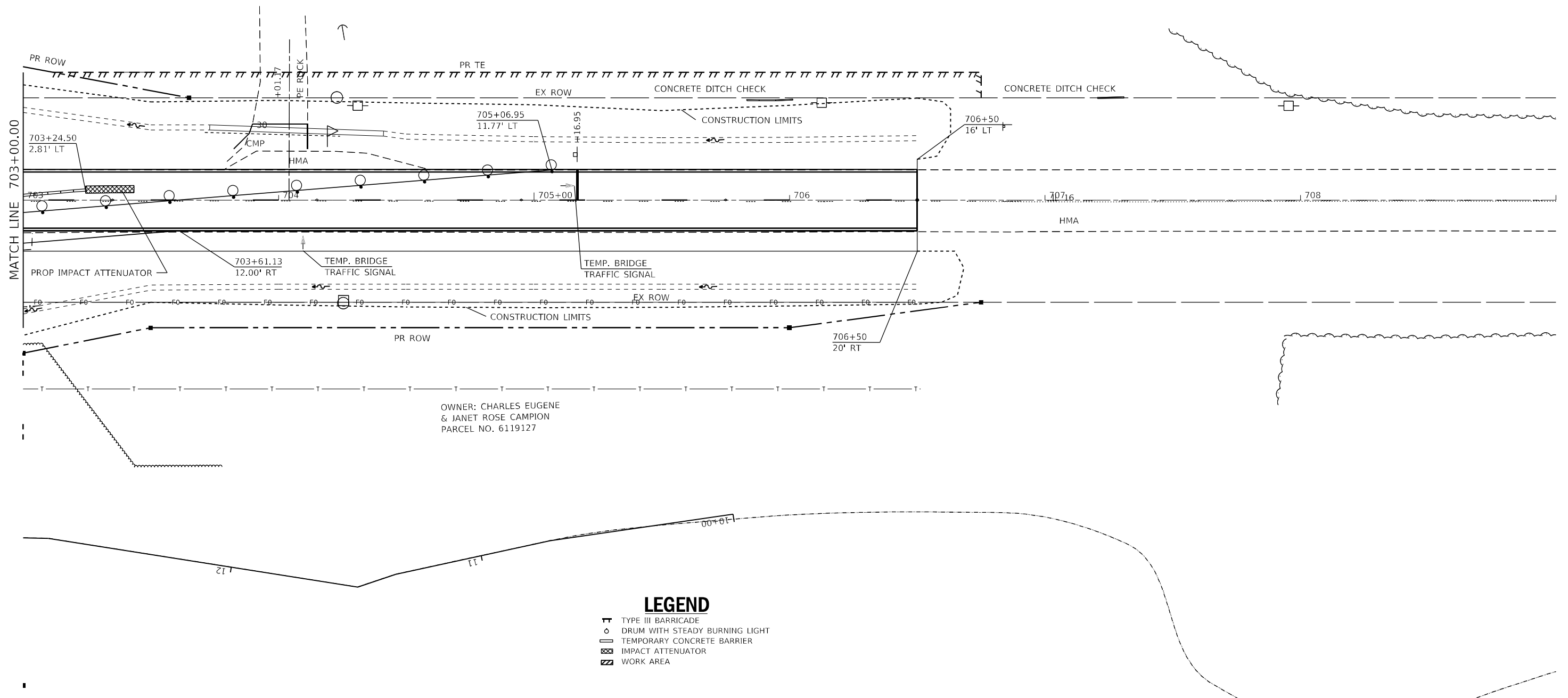
NOTES:

PRIOR TO DIGGING
THE CONTRACTOR SHALL CONTACT J.U.L.I.E.

SEE STANDARD 701321 AND STRUCTURE
DETAILS FOR ADDITIONAL INFORMATION.



OWNER: RICHARD LYNN BREITWISER
PARCEL NO. 6119129 & TE



OWNER: CHARLES EUGENE
& JANET ROSE CAMPION
PARCEL NO. 6119127

LEGEND

- TT TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER
- ▨ IMPACT ATTENUATOR
- ▩ WORK AREA

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

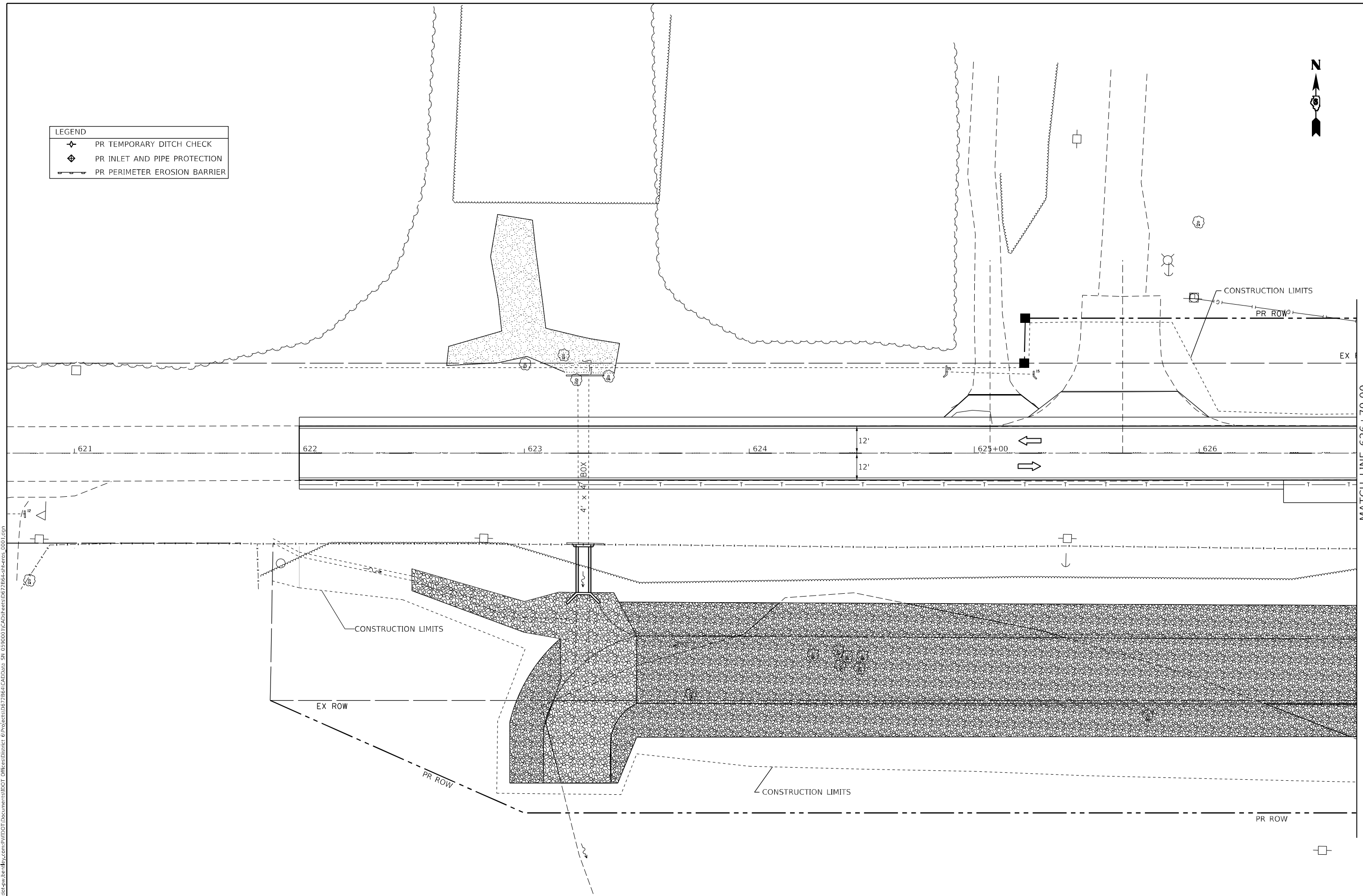
STAGE 2 TRAFFIC CONTROL PLAN SHEET - SN: 059-2509

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	38
CONTRACT NO. 72B64				
ILLINOIS FED. AID PROJECT				



LEGEND	
	PR TEMPORARY DITCH CHECK
	PR INLET AND PIPE PROTECTION
	PR PERIMETER EROSION BARRIER



MATCH LINE 626+70.00

MODEL: Default
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PLOT DATE = 8/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

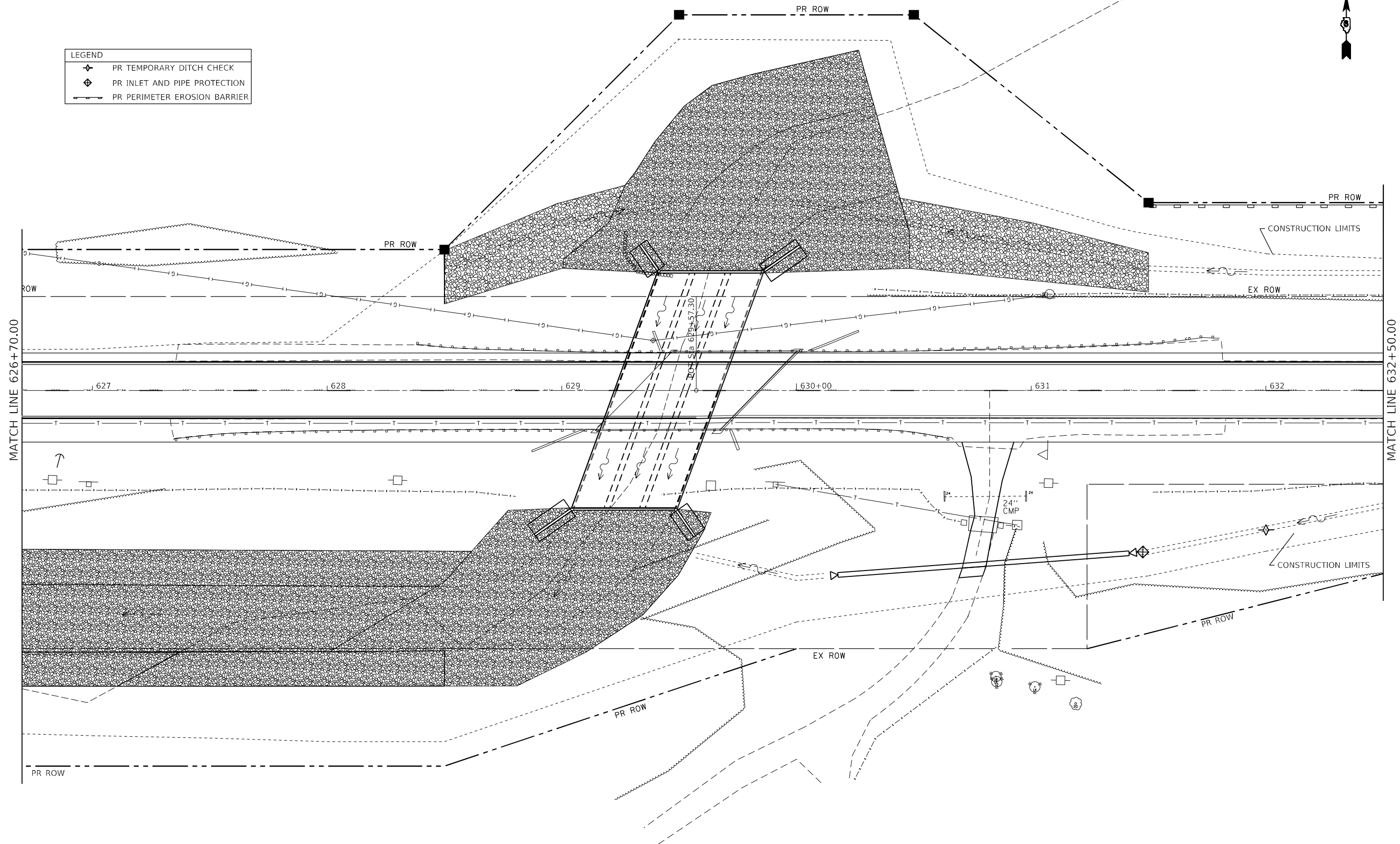
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL SHEETS (SN 059-2513)				
FAP 325 (IL 16)				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	39
CONTRACT NO. 72B64				
ILLINOIS FED. AID PROJECT				



LEGEND	
	PR TEMPORARY DITCH CHECK
	PR INLET AND PIPE PROTECTION
	PR PERIMETER EROSION BARRIER



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USER NAME = rodriguezmenendezw	DESIGNED -	REVISED -
DRAWN -	REVISOR -	
PLOT SCALE = 40,0743' / in.	CHECKED -	REVISED -
PLOT DATE = 9/2/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

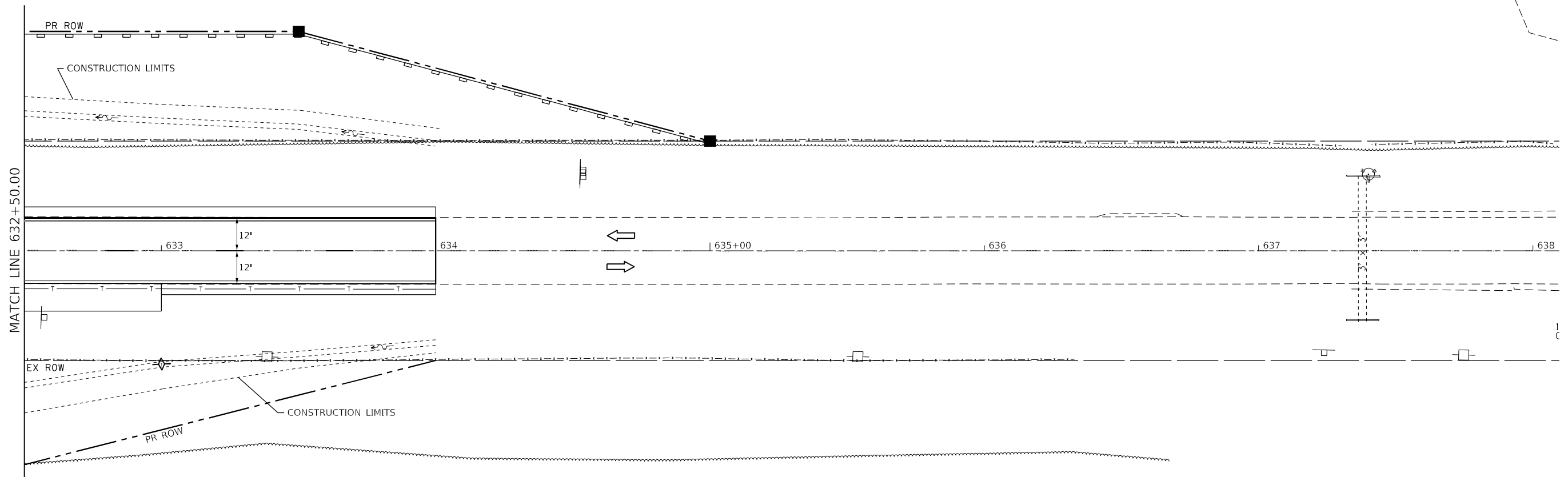
EROSION AND SEDIMENT CONTROL SHEETS (SN 059-2513)
FAP 325 (IL 16)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	40
CONTRACT NO. 72B64				
ILLINOIS FED. AID PROJECT				



LEGEND	
	PR TEMPORARY DITCH CHECK
	PR INLET AND PIPE PROTECTION
	PR PERIMETER EROSION BARRIER



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USER NAME = cancels	DESIGNED -	REVISED -
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PLOT DATE = 8/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

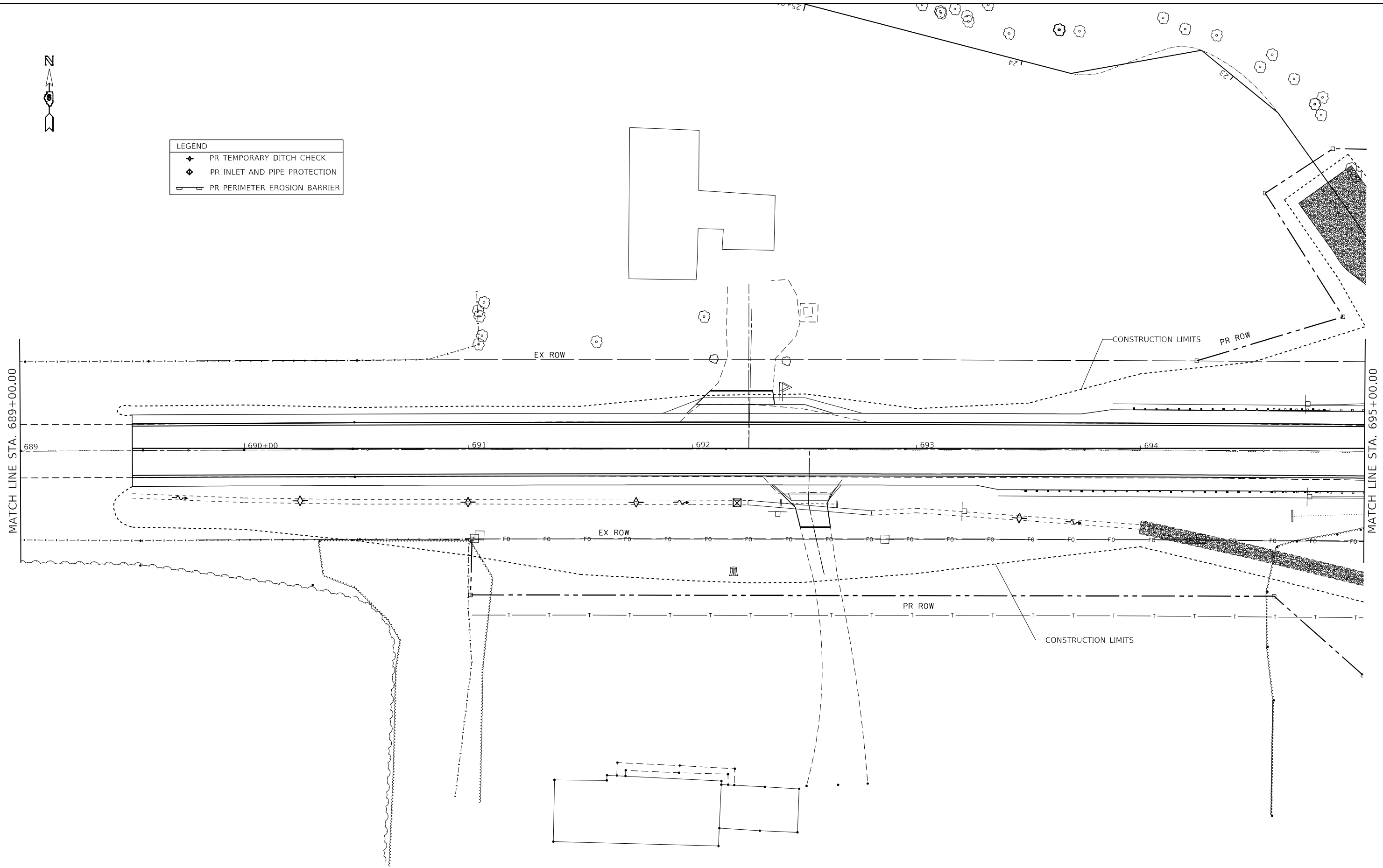
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL SHEETS (SN 059-2513)			
FAP 325 (IL 16)			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	41
CONTRACT NO. 72B64			ILLINOIS FED. AID PROJECT	



LEGEND	
	PR TEMPORARY DITCH CHECK
	PR INLET AND PIPE PROTECTION
	PR PERIMETER EROSION BARRIER



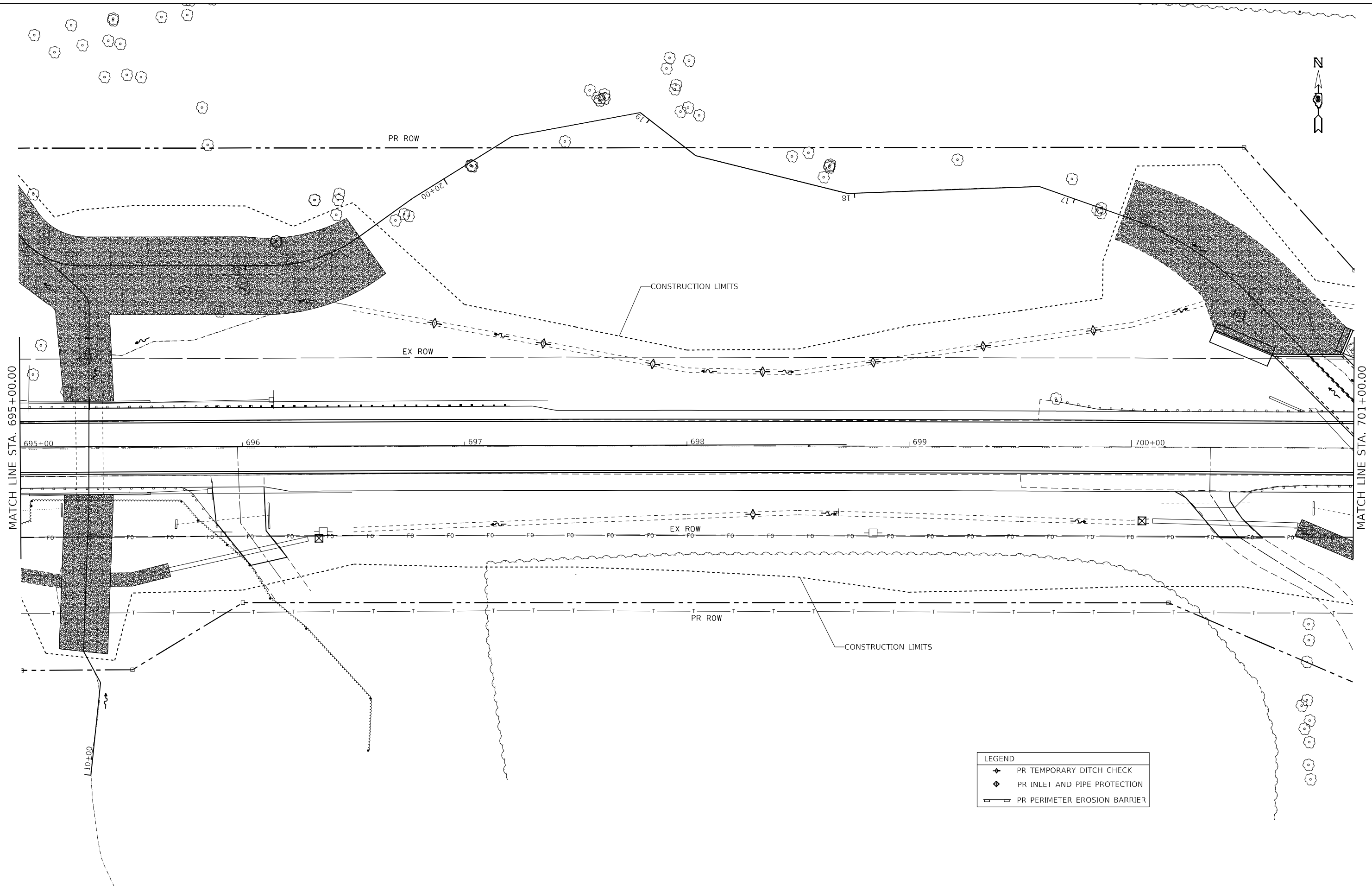
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USER NAME = cancels	DESIGNED - _____	REVISED - _____
DRAWN - _____	REVISOR - _____	REVISOR - _____
PLOT SCALE = 40,0000 * / in.	CHECKED - _____	REVISOR - _____
PLOT DATE = 8/18/2021	DATE - _____	REVISOR - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL SHEETS (SN 059-2509)
FAP 325 (IL 16)
 SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	42
CONTRACT NO. 72B64				
ILLINOIS FED. AID PROJECT				



LEGEND	
	PR TEMPORARY DITCH CHECK
	PR INLET AND PIPE PROTECTION
	PR PERIMETER EROSION BARRIER

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USER NAME = cancels	DESIGNED - _____	REVISED - _____
DRAWN - _____	REVISIONS - _____	REVISIONS - _____
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PLOT DATE = 8/18/2021	DATE - _____	REVISIONS - _____

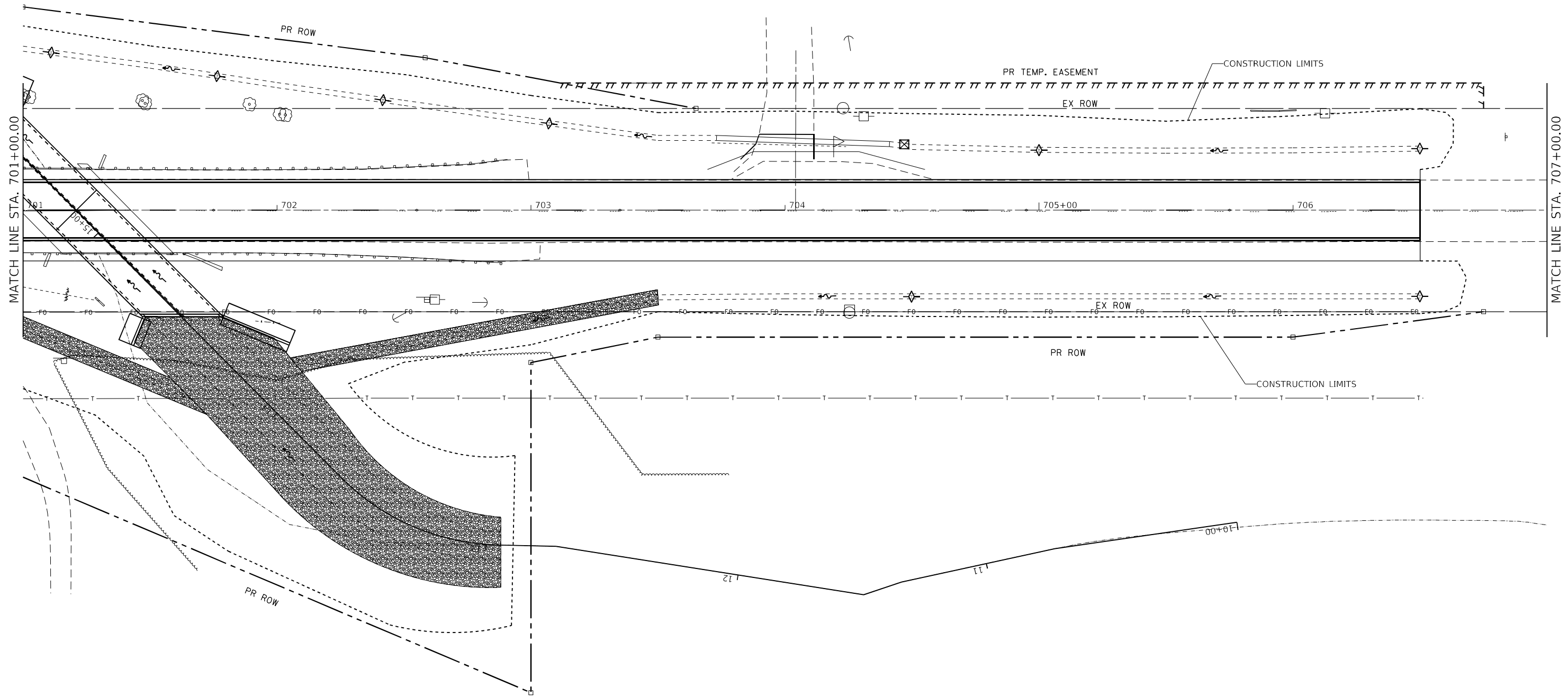
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL SHEETS (SN 059-2509)	
FAP 325 (IL 16)	
SCALE: _____	SHEET _____ OF _____ SHEETS
STA. _____	TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	43
CONTRACT NO. 72B64				
ILLINOIS FED. AID PROJECT				



LEGEND	
	PR TEMPORARY DITCH CHECK
	PR INLET AND PIPE PROTECTION
	PR PERIMETER EROSION BARRIER



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 PLOT DATE = 8/18/2021

USER NAME = cancels	DESIGNED - _____	REVISED - _____
PLOT SCALE = 40,0000 * / in.	DRAWN - _____	REVISED - _____
PLOT DATE = 8/18/2021	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL SHEETS (SN 059-2509)
FAP 325 (IL 16)

SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	44
CONTRACT NO. 72B64				
ILLINOIS FED. AID PROJECT				

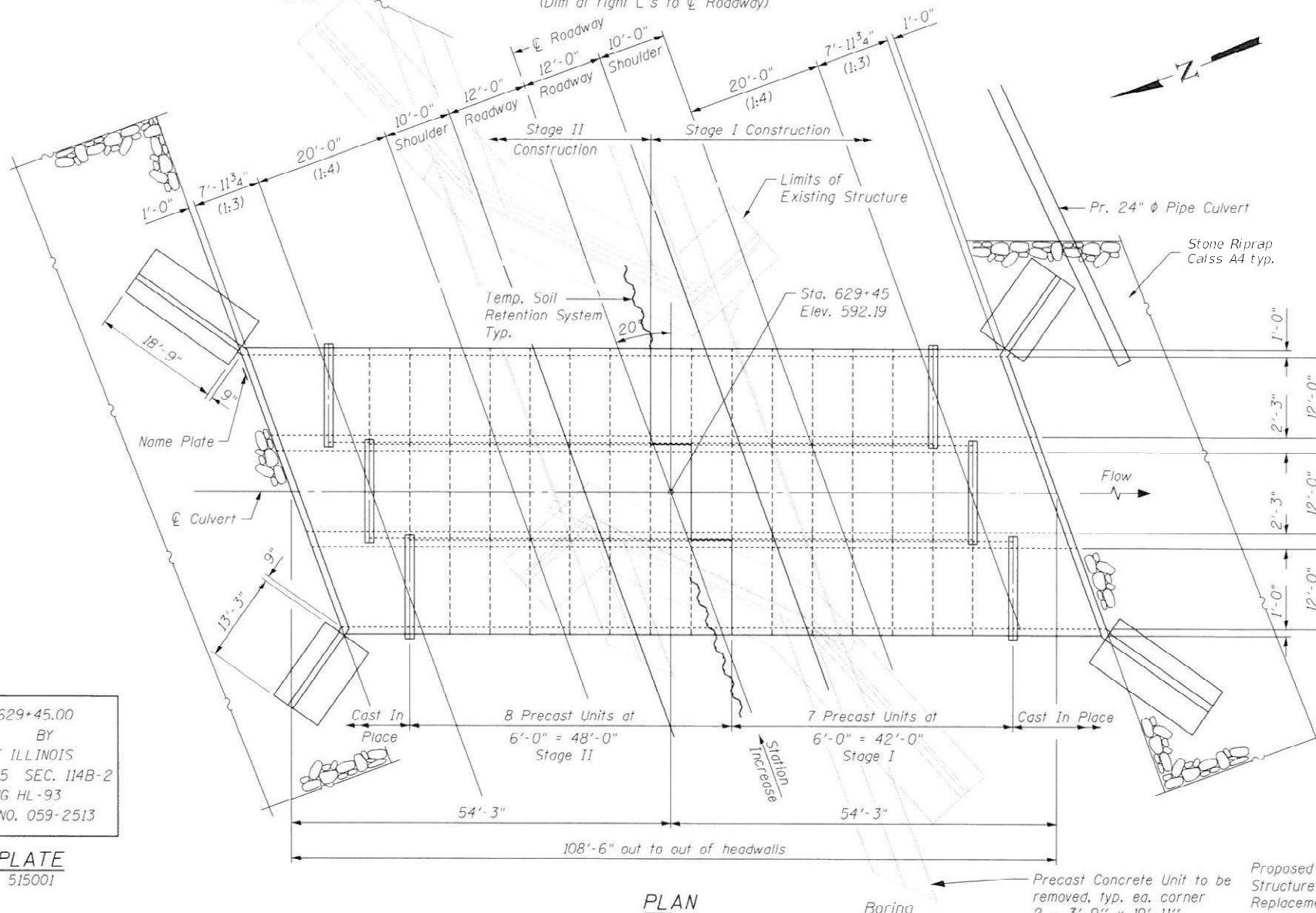
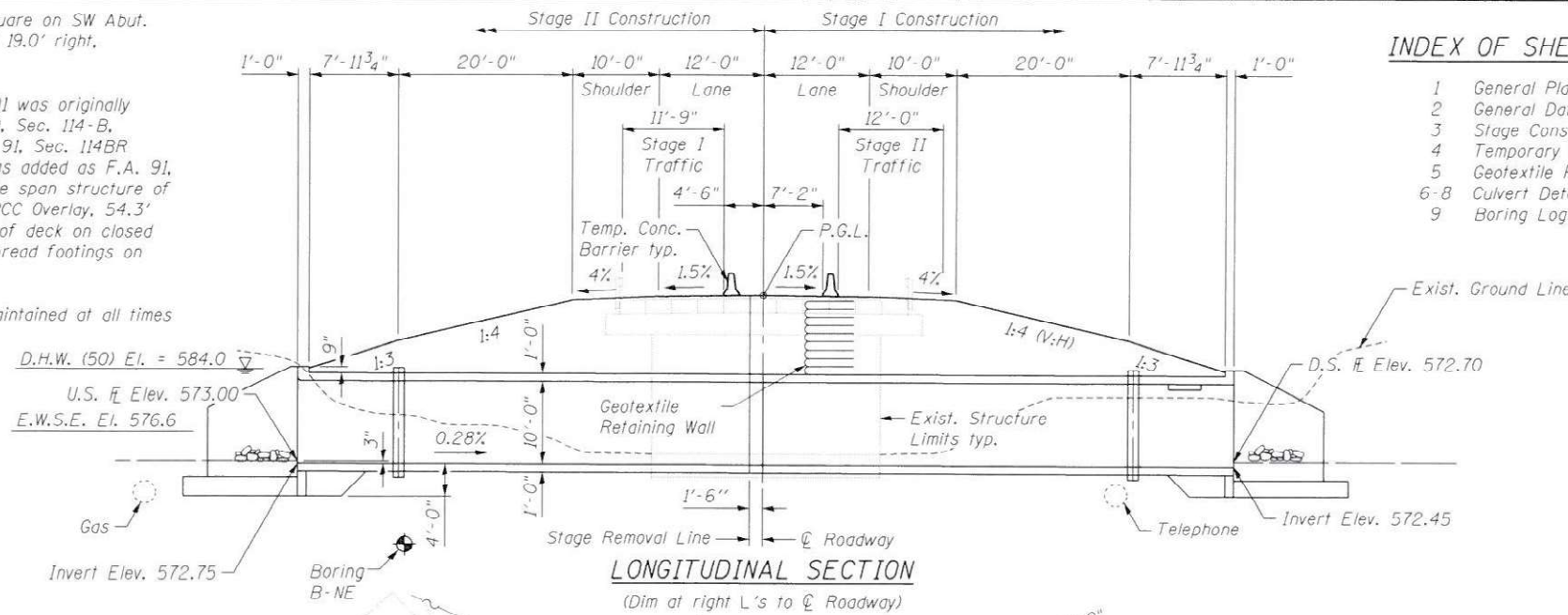
Benchmark: BM CB-1 Chiseled square on SW Abut.
 S.N. 059-0001, Sta. 629+03.8 19.0' right,
 NAVD 1988 Elev. 589.08

Existing Structure: S.N. 059-0001 was originally constructed in 1931 as SBI 110, Sec. 114-B, reconstructed in 1980 as F.A. 91, Sec. 114BR and in 1997 a conc. overlay was added as F.A. 91, Sec. 114BR-1-DL. It is a single span structure of 21" PPC Deck Beams and 5" PCC Overlay, 54.3' Bk-Bk of Abuts., 33'-0" O-O of deck on closed conc. abuts. & wingwalls on spread footings on untreated timber piles.

One lane of traffic shall be maintained at all times utilizing staged construction.

No salvage.

PRECAST END SECTIONS NOT ALLOWED



STATION 629+45.00
 BUILT BY
 STATE OF ILLINOIS
 F.A.P. RTE. 325 SEC. 114B-2
 LOADING HL-93
 STRUCTURE NO. 059-2513

NAME PLATE
 See Std. 515001

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Data
- 3 Stage Construction Details
- 4 Temporary Concrete Barrier Details
- 5 Geotextile Retaining Wall Details
- 6-8 Culvert Details
- 9 Boring Logs

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Specifications

LOADING HL-93

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

DESIGN STRESSES

FIELD UNITS

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

PRECAST UNITS

$f'_c = 5,000$ psi
 $f_y = 65,000$ psi (Welded wire fabric)

DESIGN SCOUR ELEVATION TABLE

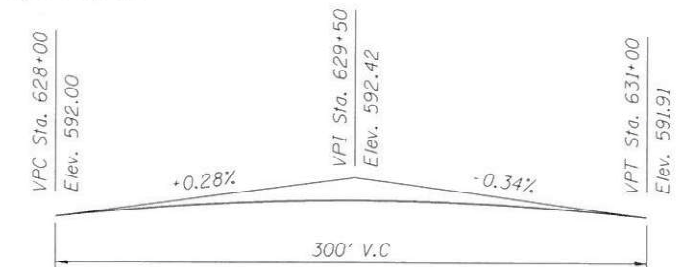
Design Scour Elevation (ft.)	Upstream	Downstream
	568.7	568.5

WATERWAY INFORMATION

Drainage Area = 6.09 Sq. Mi. Ex.&Prop. Overtopping Elev. 591.65 ft. @Sta. 632+86

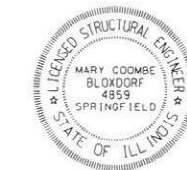
Flood	Freq. Yr.	C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Min. Calc.	10	1320	303	342	582.5	0.1	0.0	582.5	582.5
Design	50	2130	375	351	584.0	0.4	0.2	584.4	584.2
Base	100	2500	397	351	584.5	0.5	0.5	585.0	585.0
Max. Calc.	500	3400	440	351	585.5	0.9	1.4	586.4	586.9
Overtopping	>500	0							

10 year velocity thru Ex. Structure = 4.5 fps Max. Rec. H.W.E. = 589.6 ft.
 10 year velocity thru Prop. Structure = 3.9 fps
 * Existing & Proposed

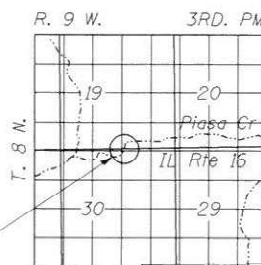


PROFILE GRADE
 (along C II Rte. 16)

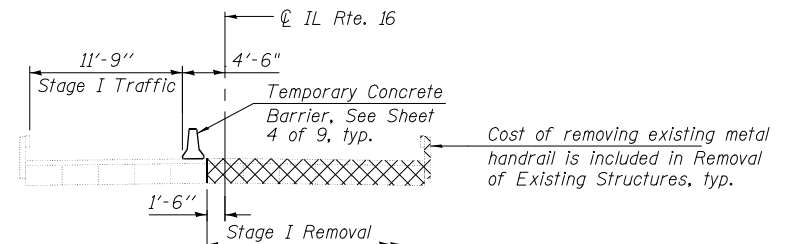
APPROVED
 For Structural Adequacy Only
 Engineer of Bridges & Structures



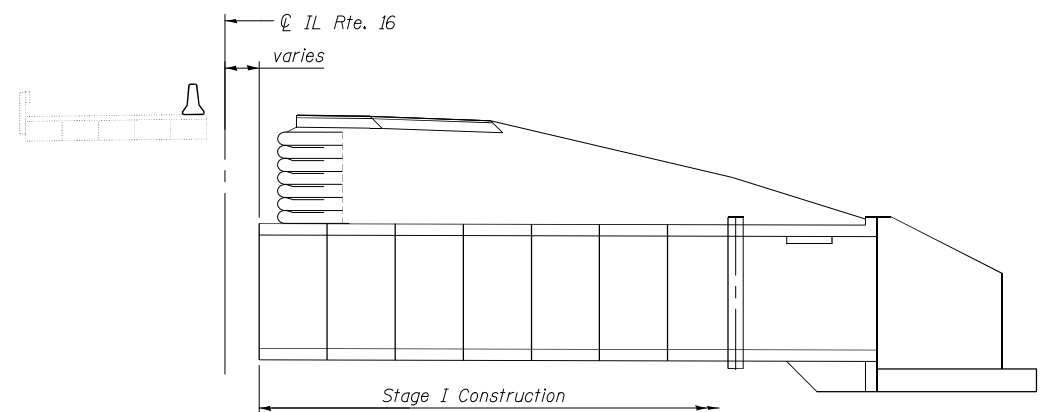
Mary Coombe Blandford
 ILLINOIS STRUCTURAL NO. 4859
 EXPIRES 11/30/22
 DATE: 08/13/2021



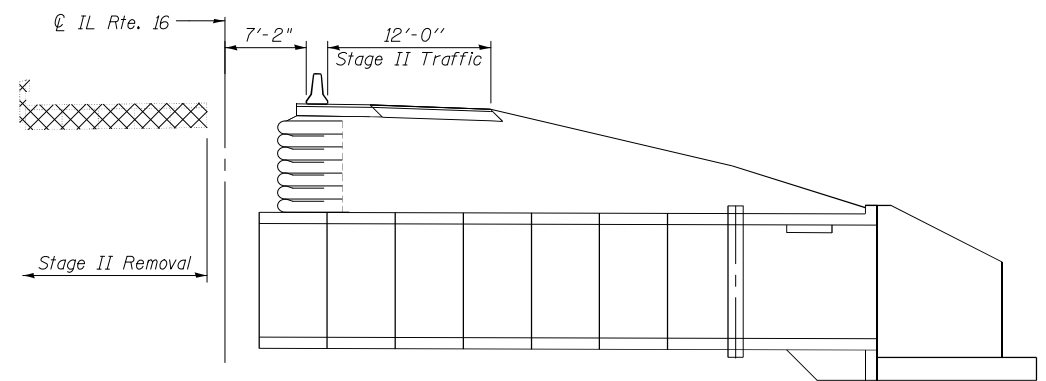
GENERAL PLAN AND ELEVATION
 IL. RTE. 16 OVER PIASA CREEK
 F.A.P. ROUTE 325 SECTION 114B-2
 MACOUPIN COUNTY
 STATION 629+45
 STRUCTURE NO. 059-2513



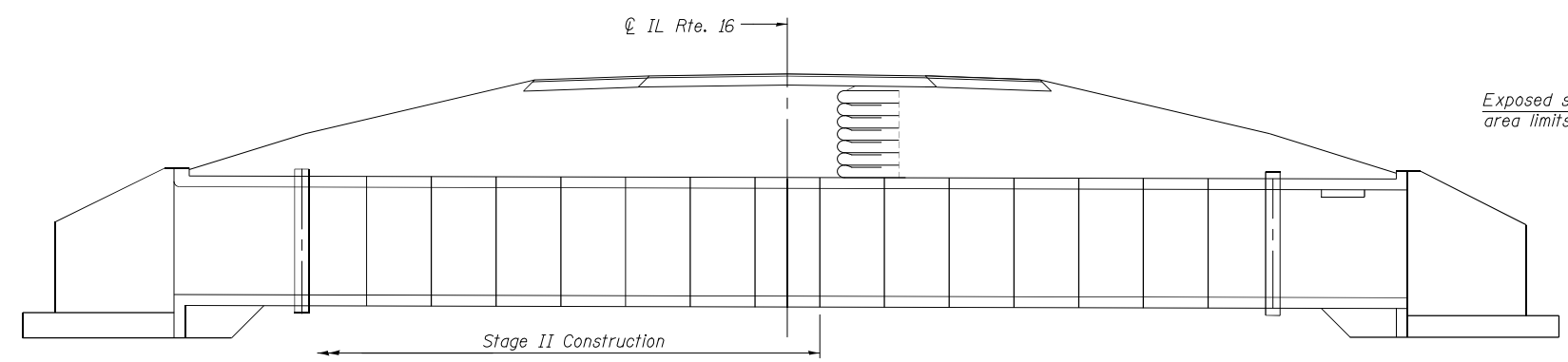
STAGE I REMOVAL



STAGE I CONSTRUCTION



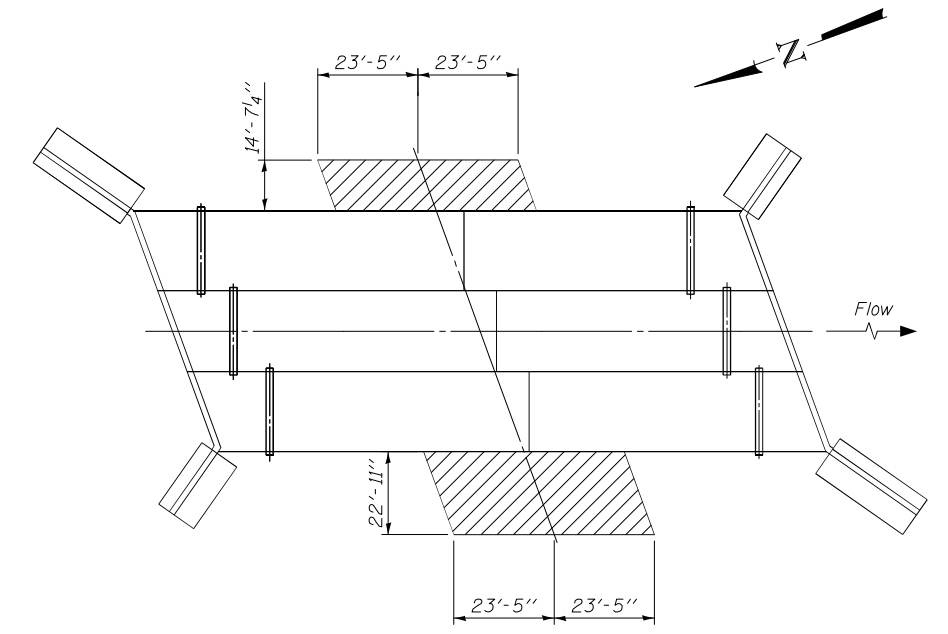
STAGE II REMOVAL



STAGE II CONSTRUCTION

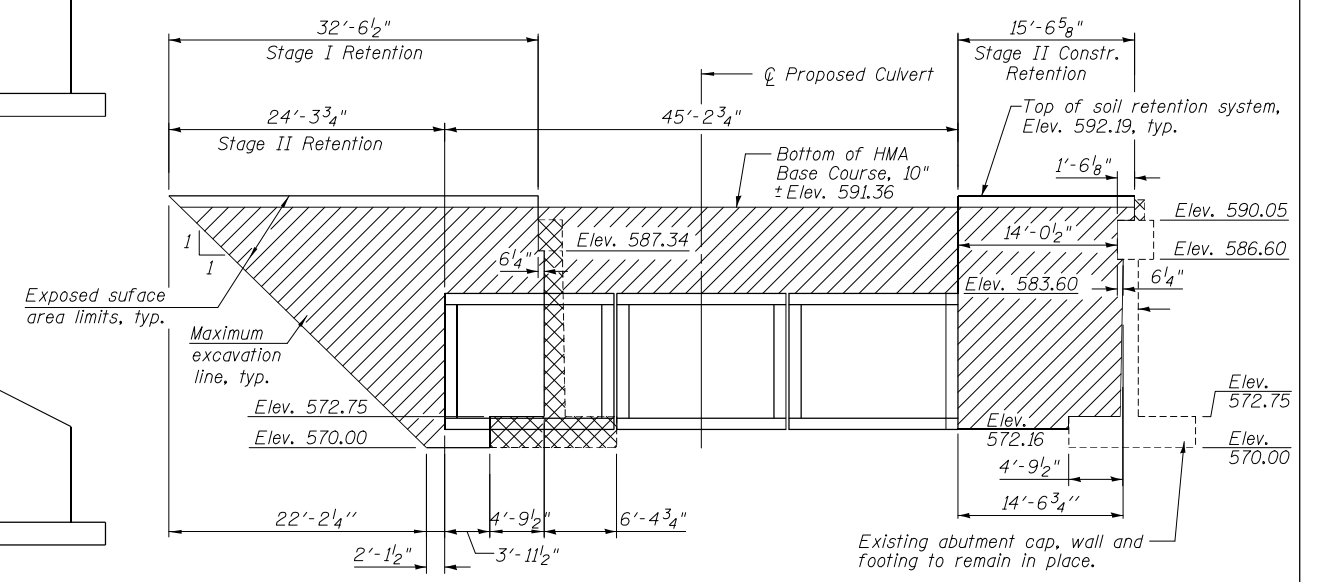
NOTES:

See Roadway Plans for quantity of Temporary Concrete Barrier. Dimensions are at Rt. L's to CL Roadway unless noted otherwise. Cross hatched areas indicate Removal of Existing Structures. Fill removed areas under the Proposed Culvert with porous granular material as specified in the Special Provisions for Precast Concrete Box Culverts. Cost included with Precast Concrete Box Culverts. Hatched areas indicate Granular Culvert Backfill. See Special Provisions. A cantilevered sheet piling design 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. All Staging Section are looking East. See Sheet 5 of 9 for plan view of staging details.



CULVERT PLAN

Showing Granular Culvert Backfill Limits

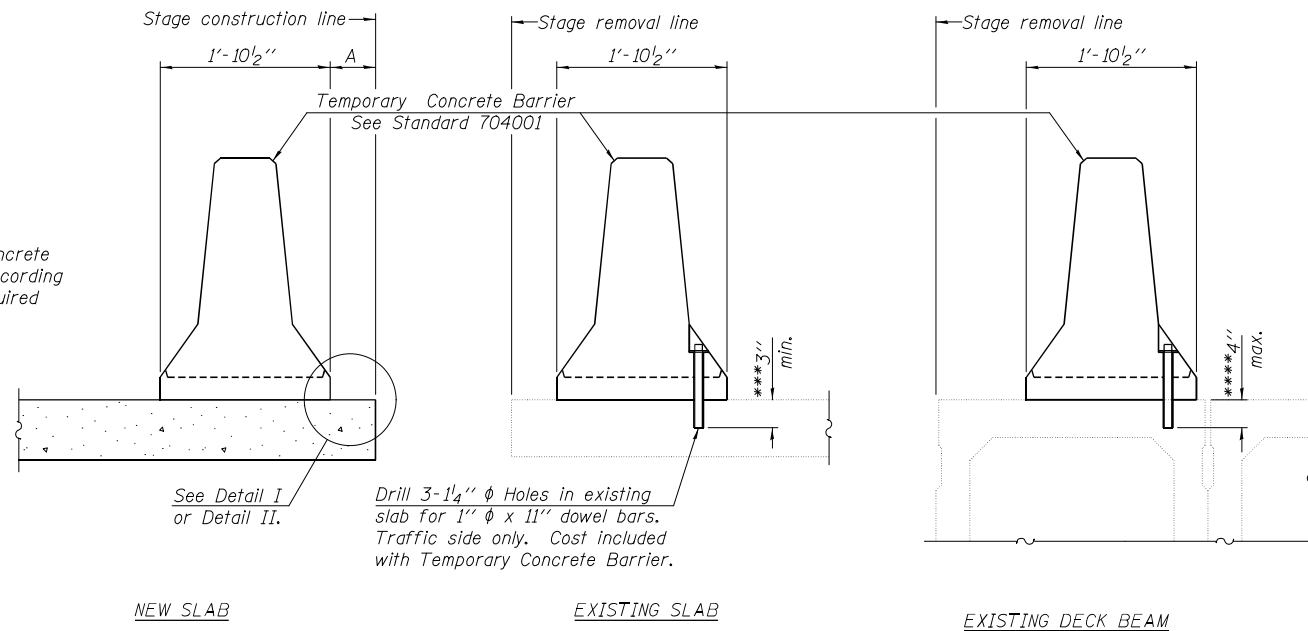


* TEMPORARY SOIL RETENTION SYSTEM

* See Special Provisions Dimensions are along CL Roadway, Looking North

FEHR GRAHAM ENGINEERING & ENVIRONMENTAL <small>ILLINOIS DESIGN FIRM NO. 184-003525</small>	USER NAME = bhodgson	DESIGNED - AMC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION DETAILS STRUCTURE NO. 059-2513	F.A.P. RTE. = 325	SECTION = 114B-2	COUNTY = MACOUPIN	TOTAL SHEETS = 194	SHEET NO. = 47
	PLOT SCALE = 7.9400' / in.	CHECKED - MCB	REVISED -			SHEET NO. = 3 OF 9 SHEETS	CONTRACT NO. 72B64			
	PLOT DATE = 2/17/2021	DRAWN - MMY	REVISED -			ILLINOIS FED. AID PROJECT				
		CHECKED - MCB	REVISED -							

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

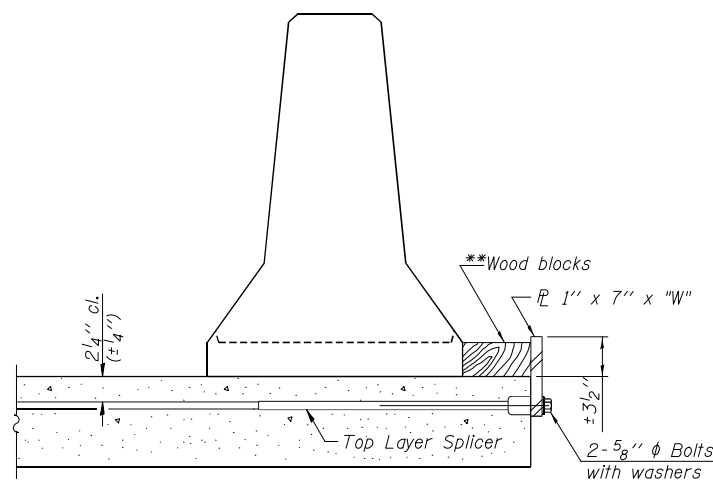
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel \bar{R} to the top layer of couplers with 2- $\frac{5}{8}$ " ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel \bar{R} to the concrete slab or concrete wearing surface with 2- $\frac{5}{8}$ " ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

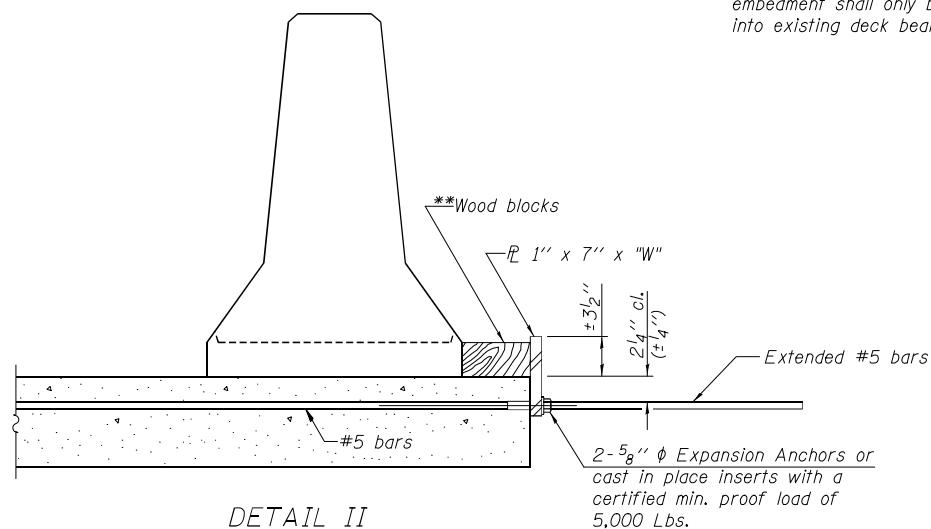
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** 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.

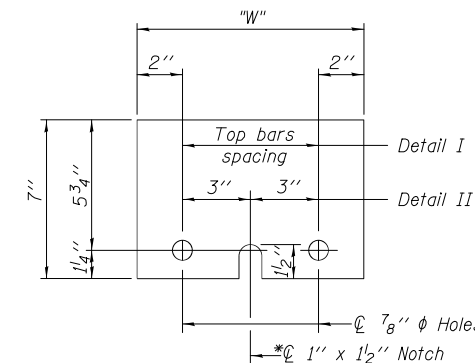
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER \bar{R} 1" x 7" x "W"

* 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.

"W" = Top bars spacing + 4"

R-27

7-1-10

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 164-003525

USER NAME = bhodgson
PLOT SCALE = 0:1' = 1/4" / 1/8"
PLOT DATE = 2/17/2021

DESIGNED - AMC
CHECKED - MCB
DRAWN - MMY
CHECKED - CME/MCB

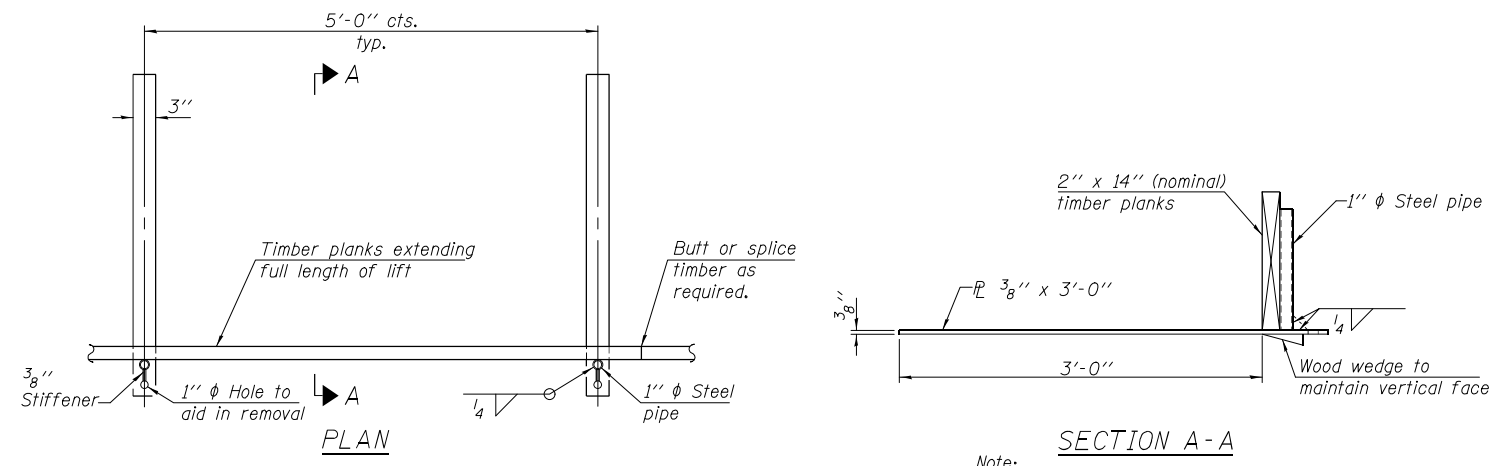
REVISED -
REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUTURE NUMBER 059-2513

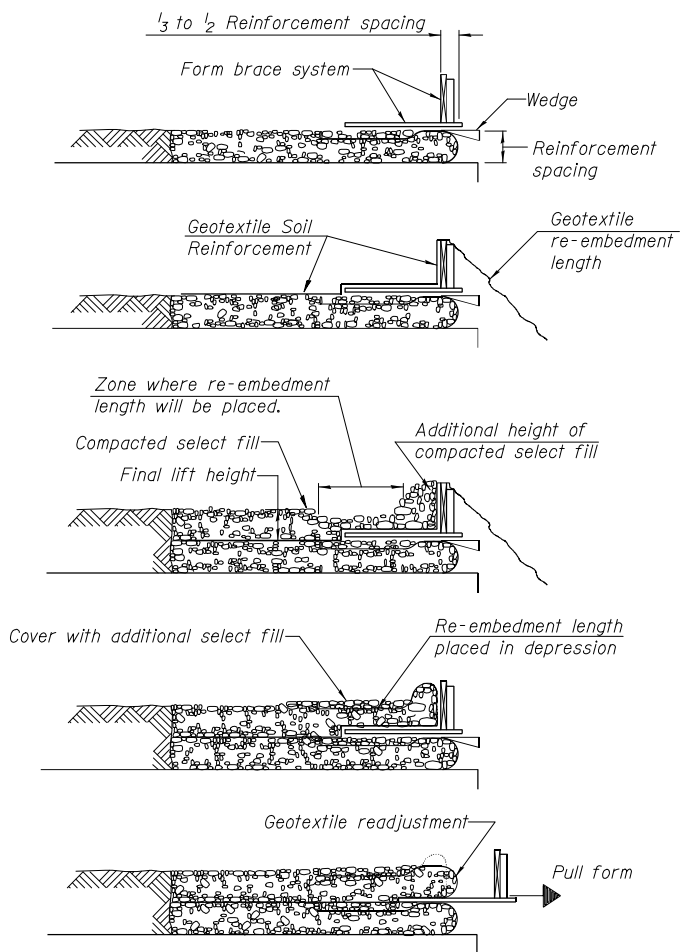
SHEET NO. 4 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	114B-2	MACOUPIN	194	48
CONTRACT NO. 72B64			ILLINOIS FED. AID PROJECT	



TEMPORARY GEOTEXTILE FORM BRACE DETAIL

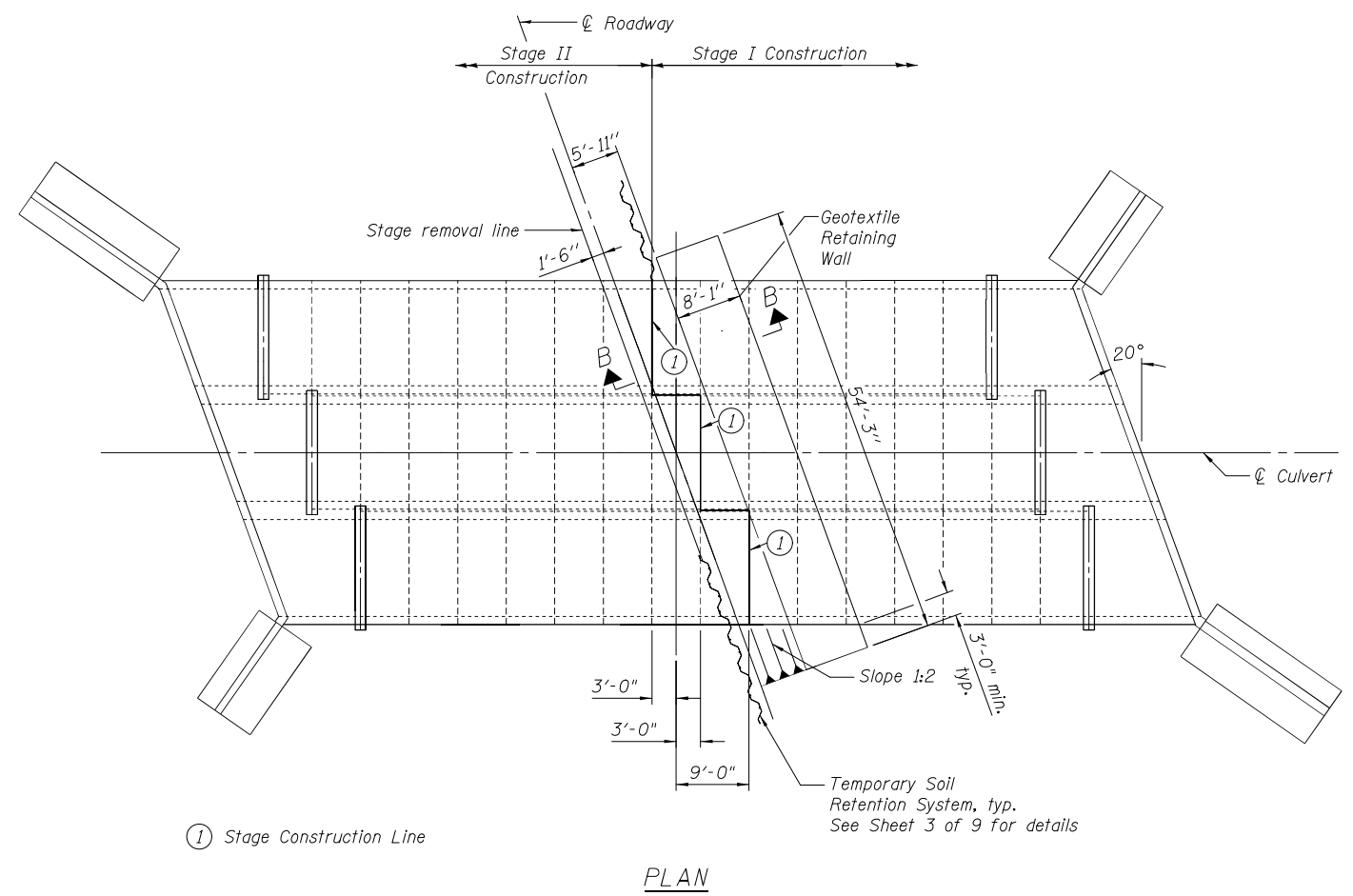
SECTION A-A
 Note: This is a suggested detail, the Contractor is responsible for the design of the form brace system to be used.



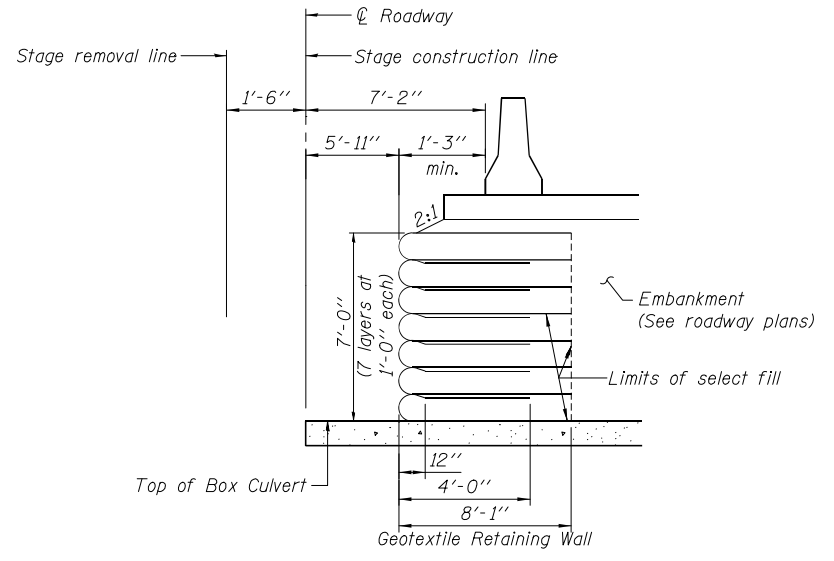
1. Place form brace system on completed reinforcement level; back from the finished fabric face a distance of $\frac{1}{3}$ to $\frac{1}{2}$ the geotextile reinforcement spacing.
2. Position fabric so that the required geotextile re-embedment length extends over the top of the form brace and the design reinforcement width is placed with no slack against the previous level.
3. Compact select fill material in lifts to final lift height, create ($\pm 3'$) depression in zone where re-embedment length will be located and place additional height of compacted select fill against form brace.
4. Fold geotextile re-embedment length back over form brace into zone where depression was made in select fill and place additional select fill ($\pm 3'$) to embed geotextile and bring to final lift height.
5. Pull form brace outward allowing geotextile face to slightly readjust to form tight round face level with plan reinforcement spacing.

TEMPORARY GEOTEXTILE WALL CONSTRUCTION SEQUENCE

Note: The geotextile soil reinforcement shall have a minimum allowable tensile strength (T min.) of 38 lb./in. as determined by the procedure described in the Special Provision. The computations supporting the determination of (T min.) shall be submitted to the engineer for approval.



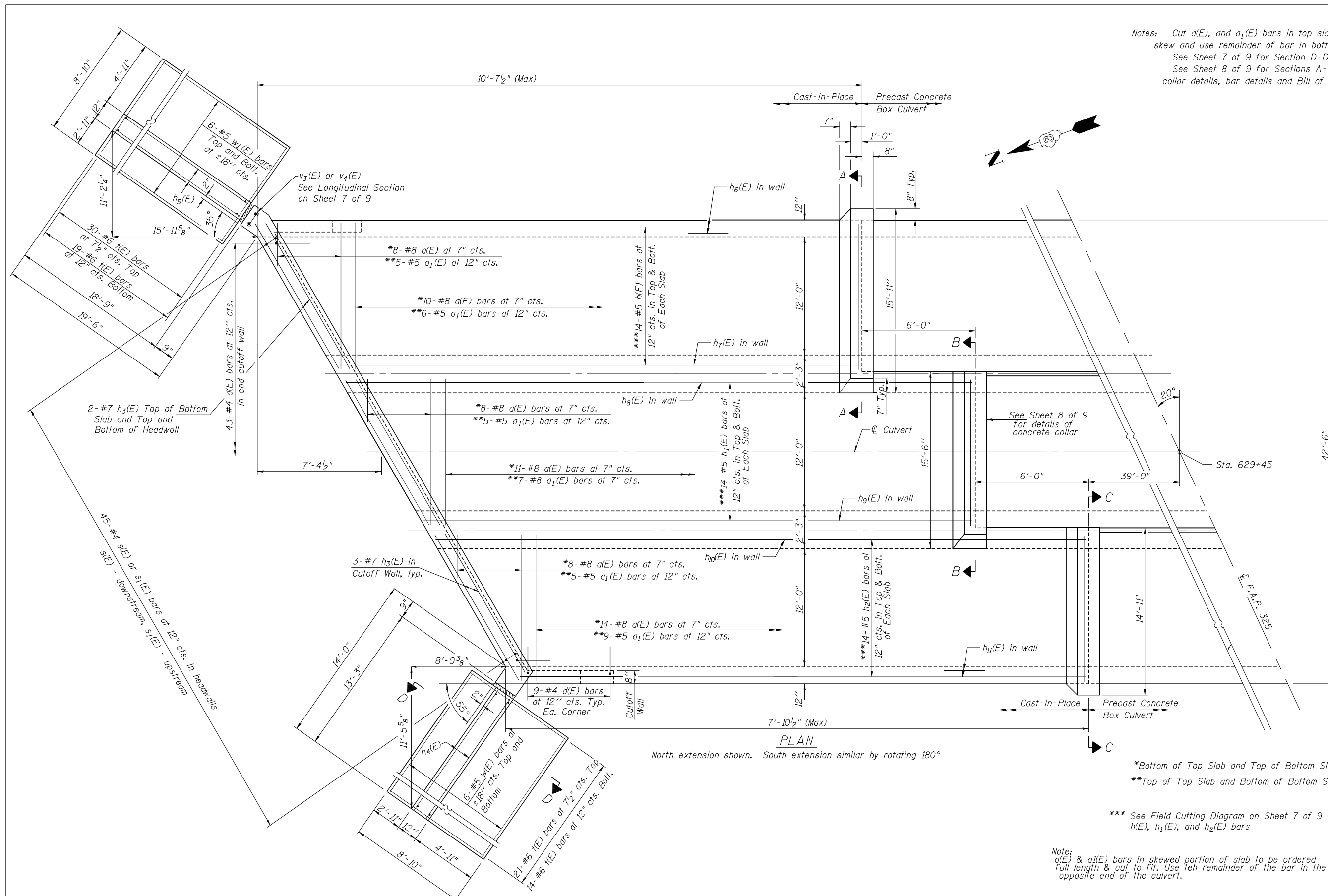
PLAN



SECTION B-B THRU GEOTEXTILE RETAINING WALL
 Dimensions at Rt. L's to \varnothing Roadway

FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 184-003525	USER NAME = bhodgson	DESIGNED - AMC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GEOTEXTILE RETAINING WALL DETAILS STRUCTURE NUMBER 059-2513	F.A.P. RTE. 325	SECTION 114B-2	COUNTY MACOUPIN	TOTAL SHEETS 194	SHEET NO. 49
	PLOT SCALE = 1/8" = 1'-0"	CHECKED - MCB	REVISED -			CONTRACT NO. 72B64				
	PLOT DATE = 2/17/2021	DRAWN - MMY	REVISED -			ILLINOIS FED. AID PROJECT				
		CHECKED - CME/MCB	REVISED -							

Notes: Cut a(E), and a₁(E) bars in top slab to fit skew and use remainder of bar in bottom slab
 See Sheet 7 of 9 for Section D-D.
 See Sheet 8 of 9 for Sections A-A, B-B and C-C, collar details, bar details and Bill of Material.

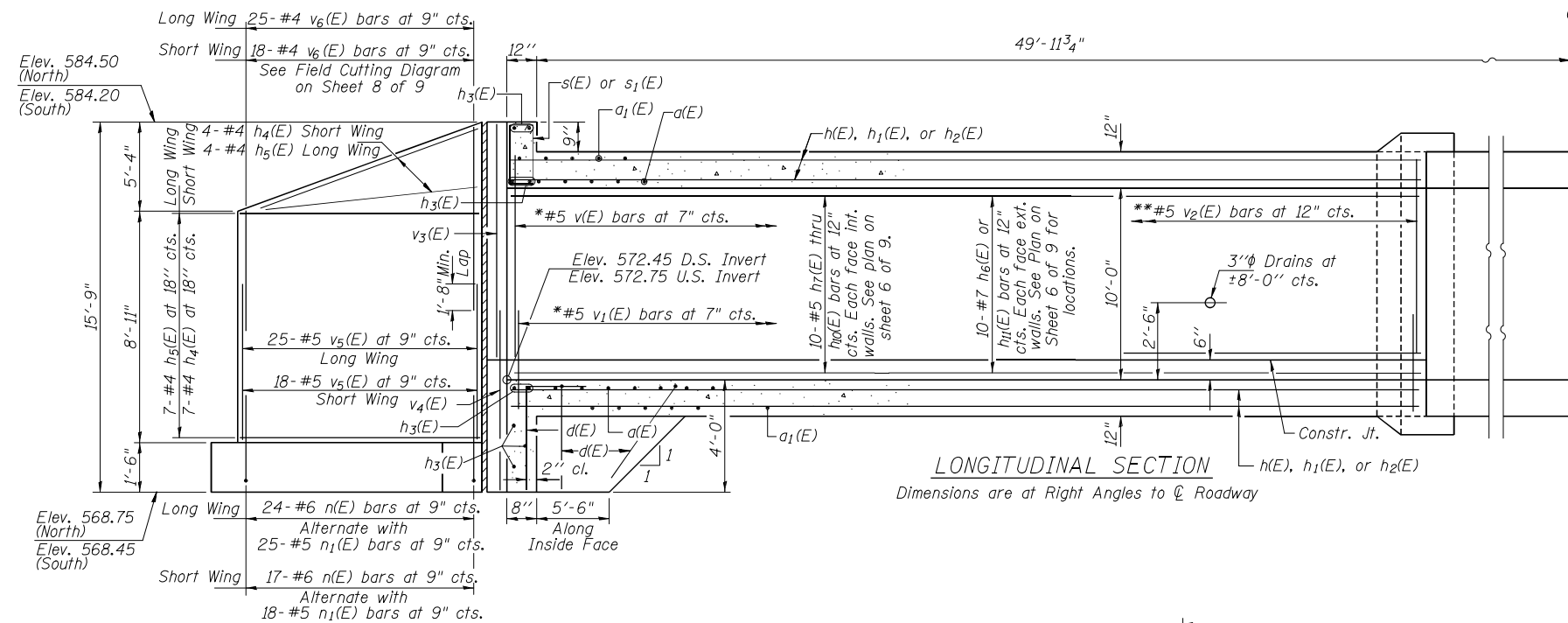


PLAN
 North extension shown. South extension similar by rotating 180°

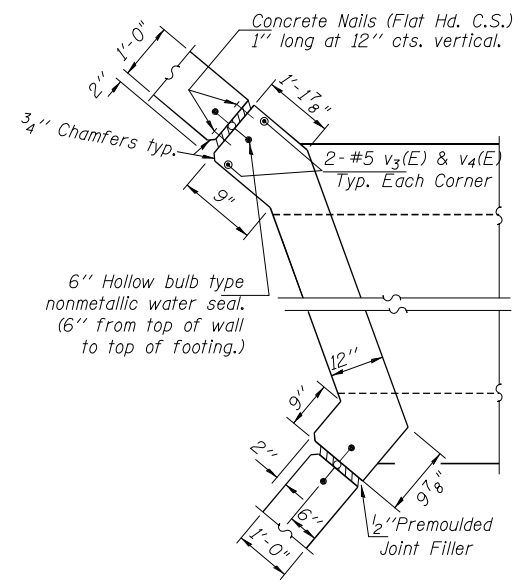
*Bottom of Top Slab and Top of Bottom Slab
 **Top of Top Slab and Bottom of Bottom Slab
 *** See Field Cutting Diagram on Sheet 7 of 9 for h(E), h₁(E), and h₂(E) bars

Note: a(E) & a₁(E) bars in skewed portion of slab to be ordered full length & cut to fit. Use teh remainder of the bar in the opposite end of the culvert.

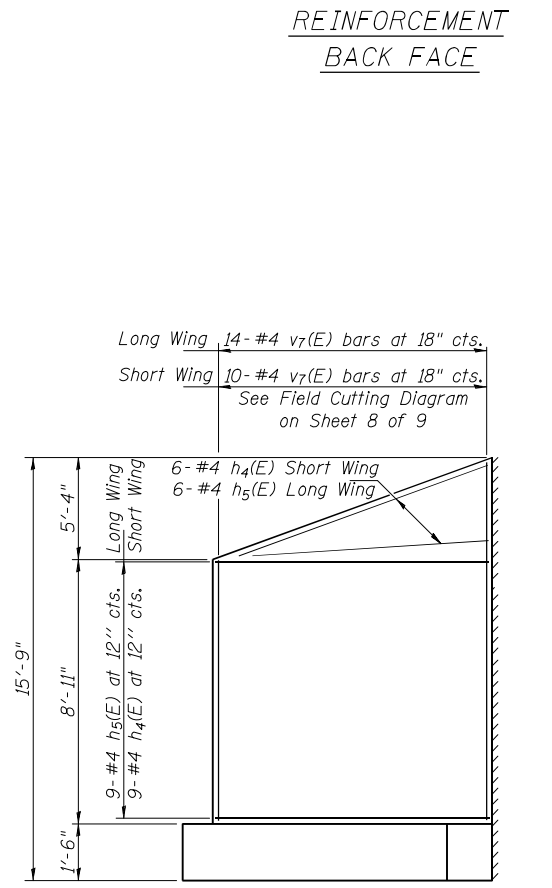
FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 184-003525	USER NAME = bhodgson	DESIGNED - AVC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT DETAILS STRUCTURE NUMBER 059-2513		F.A.P. RTE. 325	SECTION 114B-2	COUNTY MACOUPIN	TOTAL SHEETS 194	SHEET NO. 50
	PLOT SCALE = 1/8" = 1'-0"	CHECKED - MCB	REVISED -		SHEET NO. 6 OF 9 SHEETS		ILLINOIS FED. AID PROJECT		CONTRACT NO. 72B64		
	PLOT DATE = 5/3/2021	DRAWN - MMY	REVISED -								
		CHECKED - CME/MCB	REVISED -								



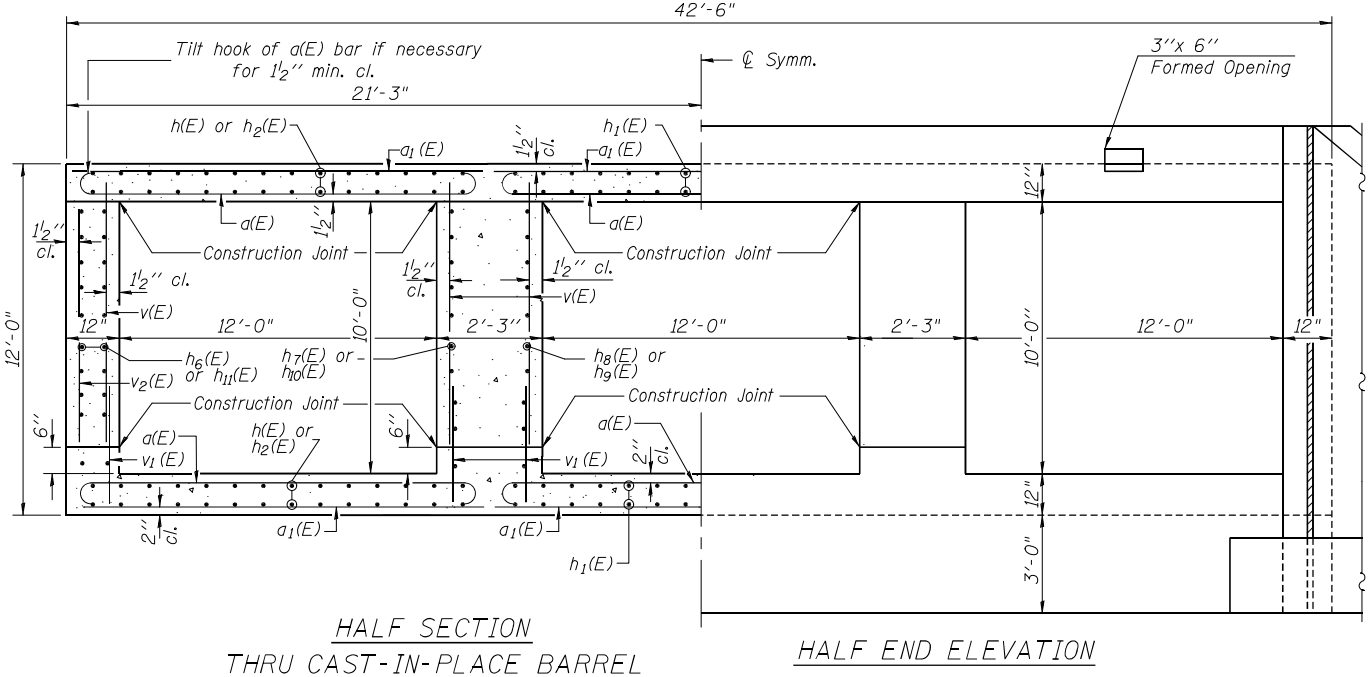
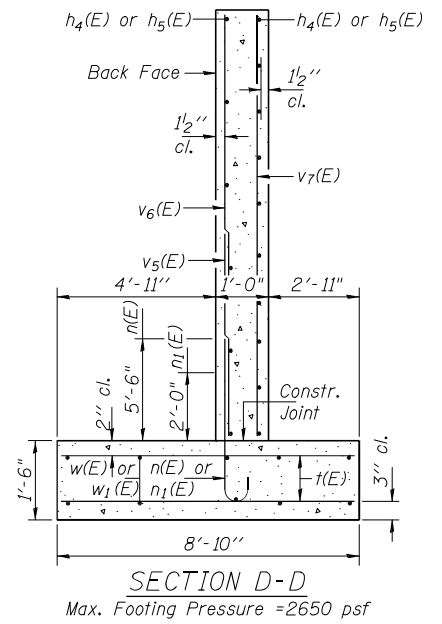
* Inside Face exterior walls and each face interior walls, see Schedule on sheet 8 of 9.
 ** Outside Face exterior walls, see Schedule on sheet 8 of 9.

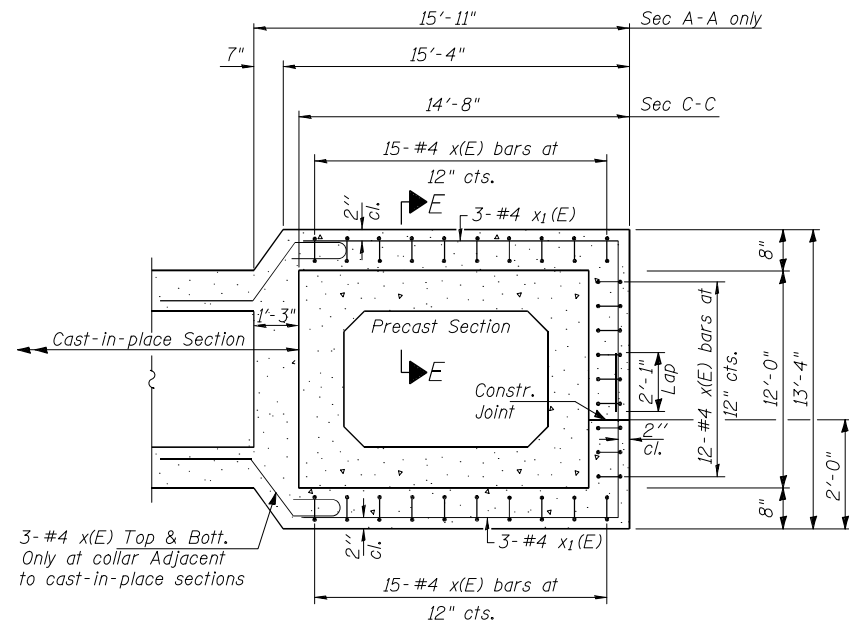


REINFORCEMENT BACK FACE



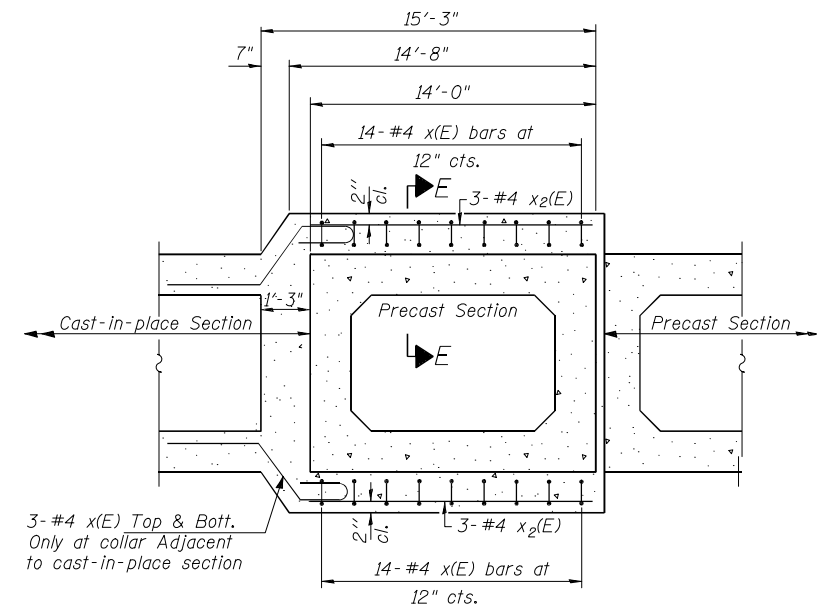
REINFORCEMENT FRONT FACE





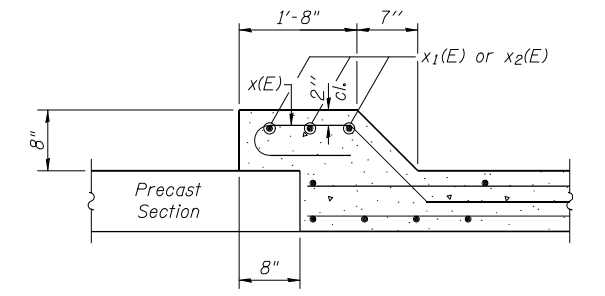
SECTION A-A & C-C

Note: Section thru collar of adjacent cast-in-place section shown. Section thru collar of adjacent precast section similar.

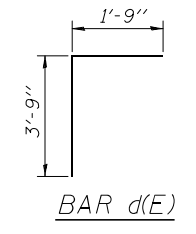


SECTION B-B

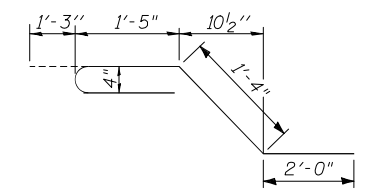
Note: Section thru collar of adjacent cast-in-place section and adjacent precast section shown.



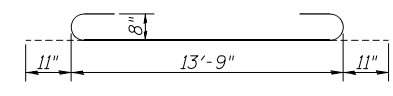
SECTION E-E



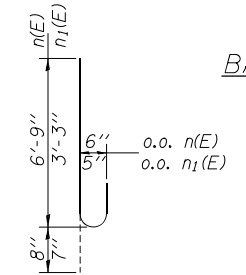
BAR d(E)



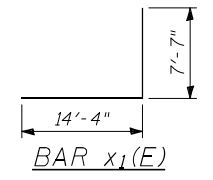
BAR x(E)



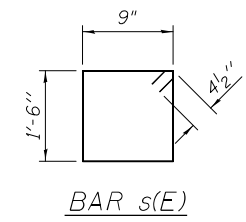
BAR a(E)



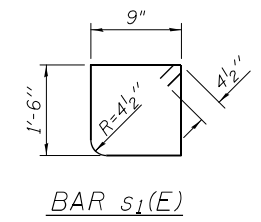
BARS n(E) and n1(E)



BAR x1(E)



BAR s(E)



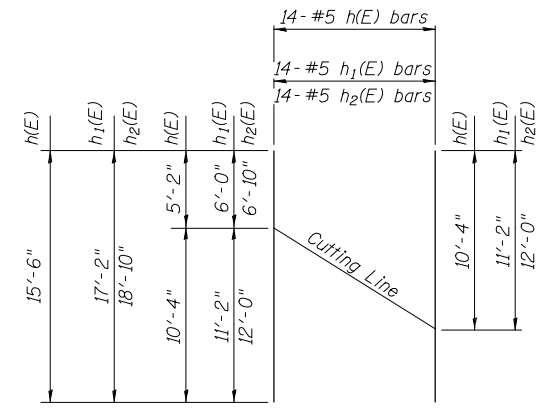
BAR s1(E)

SCHEDULE OF v(E), v1(E) AND v2(E) BARS IN NORTH EXTENSION

South Extension similar by rotating 180°

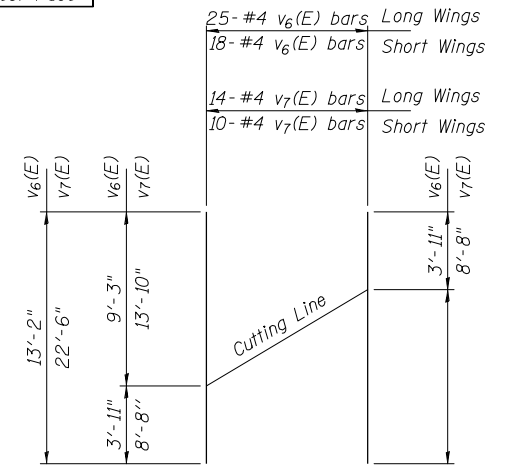
INTERIOR WALLS			
EAST CELL		WEST CELL	
WEST WALL	EAST WALL	WEST WALL	EAST WALL
11-#5 v(E) @ 7" cts. East Face	20-#5 v(E) @ 7" cts. West Face	12-#5 v(E) @ 7" cts. East Face	21-#5 v(E) @ 7" cts. West Face
11-#5 v1(E) @ 7" cts. East Face	20-#5 v1(E) @ 7" cts. West Face	12-#5 v1(E) @ 7" cts. East Face	21-#5 v1(E) @ 7" cts. West Face

EXTERIOR WALLS	
EAST WALL	WEST WALL
18-#5 v(E) @ 7" cts. West Face	14-#5 v(E) @ 7" cts. East Face
18-#5 v1(E) @ 7" cts. West Face	14-#5 v1(E) @ 7" cts. East Face
11-#5 v2(E) @ 12" cts. East Face	8-#5 v2(E) @ 12" cts. West Face



FIELD CUTTING DIAGRAM

Order h(E), h1(E), and h2(E) full length. Cut as shown and use remainder of bars in opposite face



FIELD CUTTING DIAGRAM

Order v6(E) and v7(E) full length. Cut as shown and use remainder of bars in other same length wing wall.

BILL OF MATERIAL

Bar No.	Size	Length	Shape	Bar No.	Size	Length	Shape
a(E) 188	#8	15'-7"	U	t(E) 168	#6	8'-6"	U
a1(E) 118	#5	13'-9"	U	v(E) 192	#5	10'-2"	U
d(E) 122	#4	5'-6"	U	v1(E) 192	#5	3'-4"	U
h(E) 56	#5	15'-11"	U	v2(E) 38	#5	9'-2"	U
h1(E) 56	#5	17'-7"	U	v3(E) 8	#5	10'-11"	U
h2(E) 56	#5	19'-3"	U	v4(E) 8	#5	6'-0"	U
h3(E) 54	#7	14'-7"	U	v5(E) 86	#5	6'-6"	U
h4(E) 52	#4	12'-11"	U	v6(E) 43	#4	13'-2"	U
h5(E) 52	#4	18'-5"	U	v7(E) 24	#4	22'-6"	U
h6(E) 40	#7	10'-4"	U	w(E) 24	#5	12'-11"	U
h7(E) 20	#5	5'-7"	U	w1(E) 24	#5	18'-5"	U
h8(E) 20	#5	10'-10"	U	x(E) 248	#4	6'-0"	U
h9(E) 20	#5	6'-5"	U	x1(E) 24	#4	21'-11"	U
h10(E) 20	#5	11'-8"	U	x2(E) 12	#4	13'-8"	U
h11(E) 40	#7	7'-3"	U				
n(E) 82	#6	7'-5"	U				
n1(E) 86	#5	3'-10"	U				
s(E) 45	#4	5'-3"	□				
s1(E) 45	#4	5'-2"	□				
Reinforcement Bars, Epoxy Coated						Pound	28,380
Concrete Box Culverts						Cu. Yd.	177.6



SOIL BORING LOG

ROUTE FAP 325 DESCRIPTION Northeast WW for box culvert carrying IL 16 over Pisa Creek LOGGED BY M. Tappan
SECTION 114B-2 LOCATION SE 1/4, SEC. 19, TWP. 8 N, RNG. 9 W, 3 PM
COUNTY Macoupin DRILLING METHOD HSA HAMMER TYPE 140# Auto

Table with columns for Depth (ft), Blows (B), Penetration (P), and Soil Description. Includes data for Surface Water Elev., Stream Bed Elev., Groundwater Elev., and various soil layers like Brown and Gray Moist SILTY CLAY (Fill), Olive Gray Moist V. Weathered CLAYEY SHALE, etc.

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 T205) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

ROUTE FAP 325 DESCRIPTION Southwest WW for box culvert carrying IL 16 over Pisa Creek LOGGED BY M. Tappan
SECTION 114B-2 LOCATION SE 1/4, SEC. 19, TWP. 8 N, RNG. 9 W, 3 PM
COUNTY Macoupin DRILLING METHOD HSA HAMMER TYPE 140# Auto

Table with columns for Depth (ft), Blows (B), Penetration (P), and Soil Description. Includes data for Surface Water Elev., Stream Bed Elev., Groundwater Elev., and various soil layers like Gray and Brown Moist SILTY CLAY (Fill), Grayish Brown, Dk Gray Moist CLAY LOAM, etc.

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 T205) BBS, from 137 (Rev. 8-99)



Table with columns: USER NAME, DESIGNED, CHECKED, DRAWN, PLOT SCALE, PLOT DATE, REVISED, etc.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BORING LOGS STRUTURE NUMBER 059-2513

SHEET NO. 9 OF 9 SHEETS

Table with columns: F.A.P. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO.

Benchmark: BM CB-2 Chiseled square on SW Wingwall
S.N. 059-0002, Sta. 701+09.6 20.1' right,
NAVD 1988 Elev. 603.94

Existing Structure: S.N. 059-0002 was originally
built in 1932 as SBI 110, Sec. 114-B,
reconstructed in 1980 as F.A. 91, Sec. 114BR1 and
concrete overlay added in 1997 as F.A. 91,
Sec. 114BR-I-DL. It is a single span structure
consisting of 17" PPC Deck Beams on Closed Conc.
Abuts. and Wingwalls with a 5" PCC wearing surface.
The Structure length is 44.0' Bk-Bk and 33'-0" O-O
of deck at 45° skew right forward, @ Sta. 701+20.

Traffic shall be maintained utilizing stage construction.

No salvage.

**PRECAST OPTION
NOT ALLOWED**

DS FL Elev. 591.59

DS Inv. Elev. 591.34

WATERWAY INFORMATION

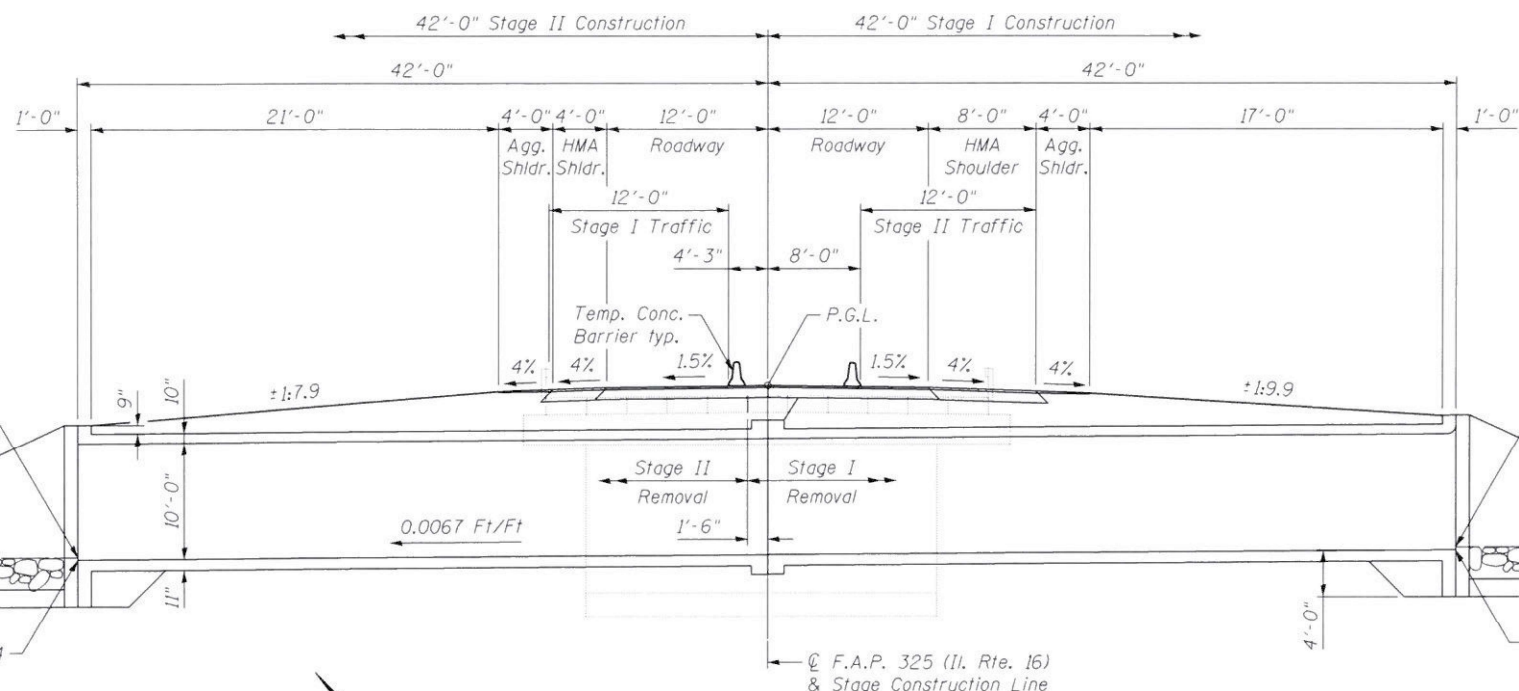
Drainage Area = 2.1 Sq. Mi.		Ex Overtopping Elev. = 605.9 @ Sta 701+15							
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Min. Calc.	10	636	109	137	598.6	0.6	0.0	599.2	598.6
Design	50	1020	146	172	599.8	1.2	0.1	601.0	599.9
Base	100	1190	160	192	600.3	1.4	0.5	601.6	600.8
Max. Calc.	500	1610	189	195	601.1	2.3	1.7	603.4	602.8
Overtopping	>500	0							

10 year velocity thru Existing Structure = 5.9 fps
10 year velocity thru Proposed Structure = 4.9 fps
* Existing & Proposed

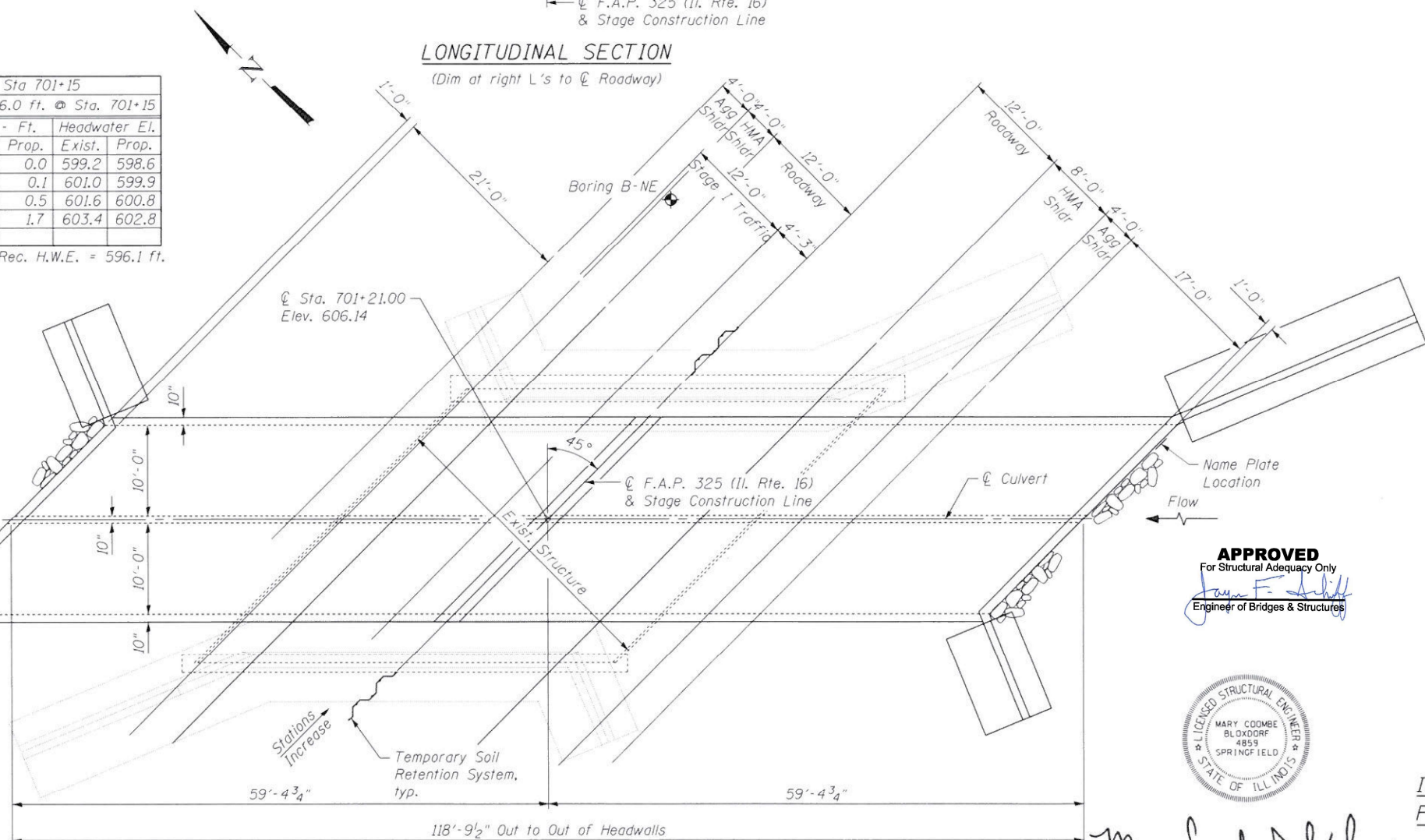
STATION 701+21.00
BUILT BY
STATE OF ILLINOIS
LOADING HL-93
STRUCTURE NO. 059-2509

NAME PLATE
See Std. 515001

See Roadway Plans
for Riprap layout and
quantities, typ.



LONGITUDINAL SECTION
(Dim at right L's to @ Roadway)



PLAN

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications
with 2013 Interims

LOADING HL-93

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

DESIGN STRESSES

FIELD UNITS

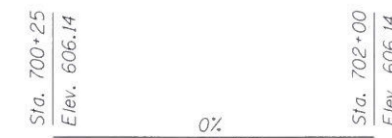
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

DESIGN SCOUR ELEVATION TABLE

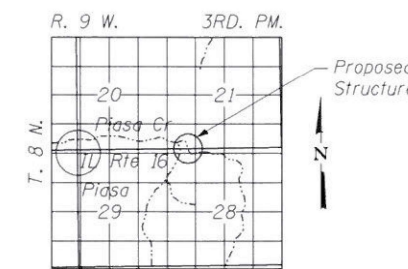
Design Scour Elevation (ft.)	Upstream	Downstream
	588.14	587.34

INDEX OF SHEETS

- 1 General Plan
- 2 General Data
- 3 Stage Construction Details
- 4 Temporary Concrete Barrier
- 5 - 6 Culvert Details
- 7 Bar Splicer Details
- 8 Boring Logs



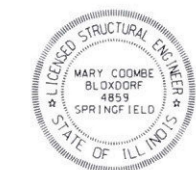
PROFILE GRADE
(along @ Il Rte. 16)



LOCATION SKETCH

GENERAL PLAN
IL RTE. 16 OVER PIASSA CREEK
FAP RTE 325 SECTION 114B-3
MACOUPIN COUNTY
STATION 701+21.00
STRUCTURE NO. 059-2509

APPROVED
For Structural Adequacy Only
Juan F. [Signature]
Engineer of Bridges & Structures



Mary Coombe Bloxdrf
ILLINOIS STRUCTURAL NO. 4859
EXPIRES 11/30/22
DATE: 08/13/2021

FILE NAME: C:\Users\10085-01-16-ms\ur-odger-ms\SH059-2509\0592509-72664-001-996.dgn
CD PROJECT: 1010000-1



USER NAME = bhodgson
DESIGNED - AMC
CHECKED - MCB
DRAWN - CFC
PLOT SCALE = 8:0.000000 1" = 1 in.
PLOT DATE = 8/13/2021

REVISOR -
REVISION -
REVISOR -
REVISION -
REVISOR -
REVISION -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

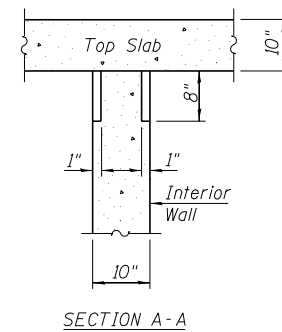
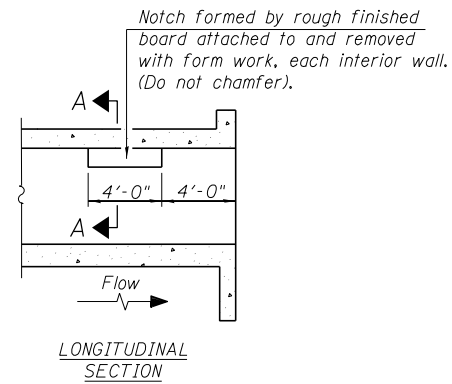
STRUCTURAL PLANS
SN: 059-2509

SHEET NO. 1 OF 8 SHEETS

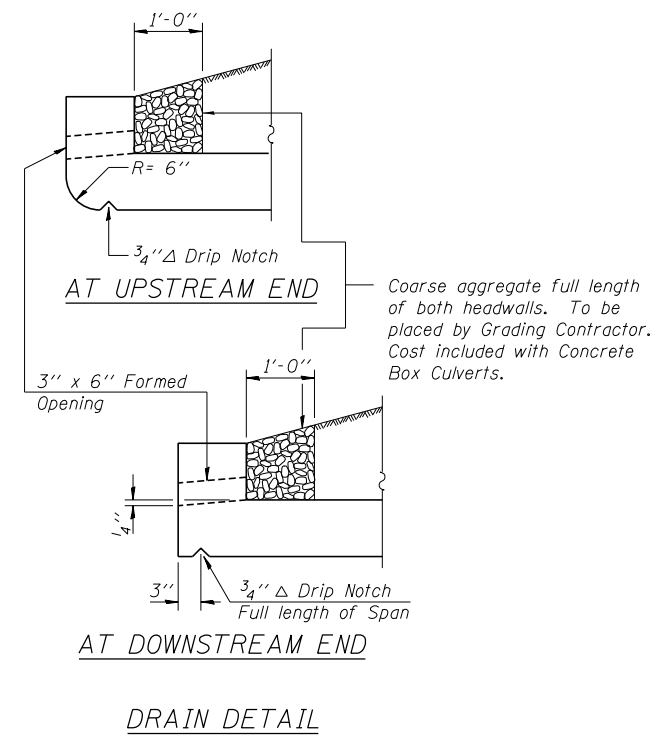
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	114B-3	MACOUPIN	194	54
			CONTRACT NO. 72B64	
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
 Precast alternate is not allowed at this location.
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 Contact the District Geotechnical Engineer to verify foundation conditions meet plan requirements.

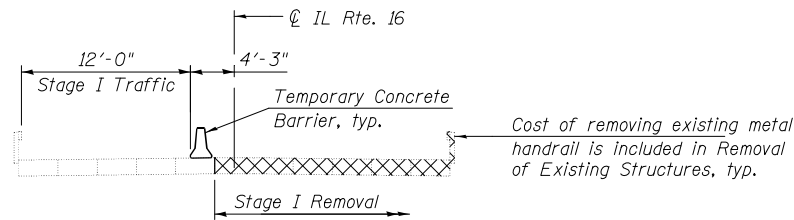


**PHOEBE NESTING
 SITE DETAILS
 (Downstream End Only)**

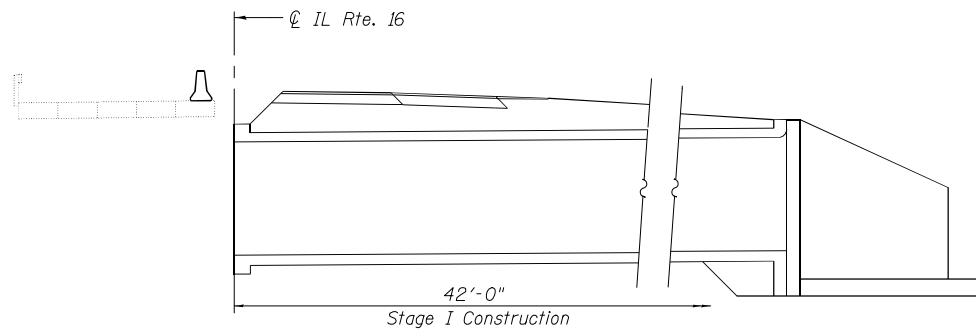


TOTAL BILL OF MATERIAL

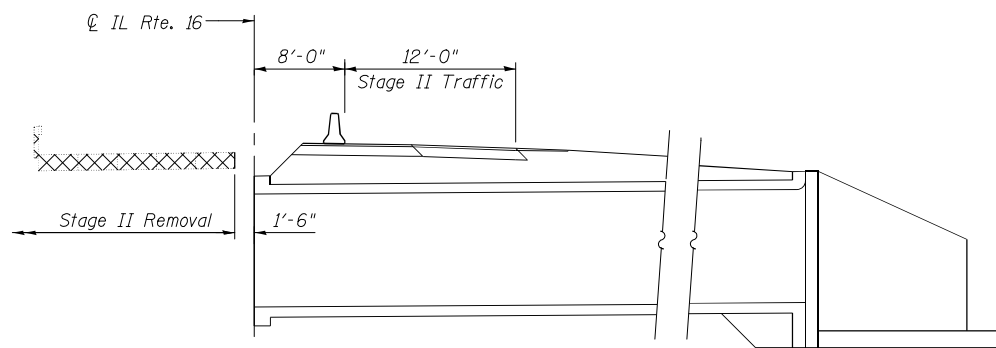
ITEM	UNIT	TOTAL
Removal of Existing Structures No. 2	Each	1
Concrete Box Culverts	Cu. Yd.	379.7
Reinforcement Bars, Epoxy Coated	Pound	70,320
Name Plates	Each	1
Granular Culvert Backfill	Cu. Yd.	1022
Temporary Soil Retention System	Sq. Ft.	67
Removal of Existing Precast Concrete Units	Sq. Ft.	299
Bar Splicers	Each	128
Asbestos Bearing Pad Removal	Each	22



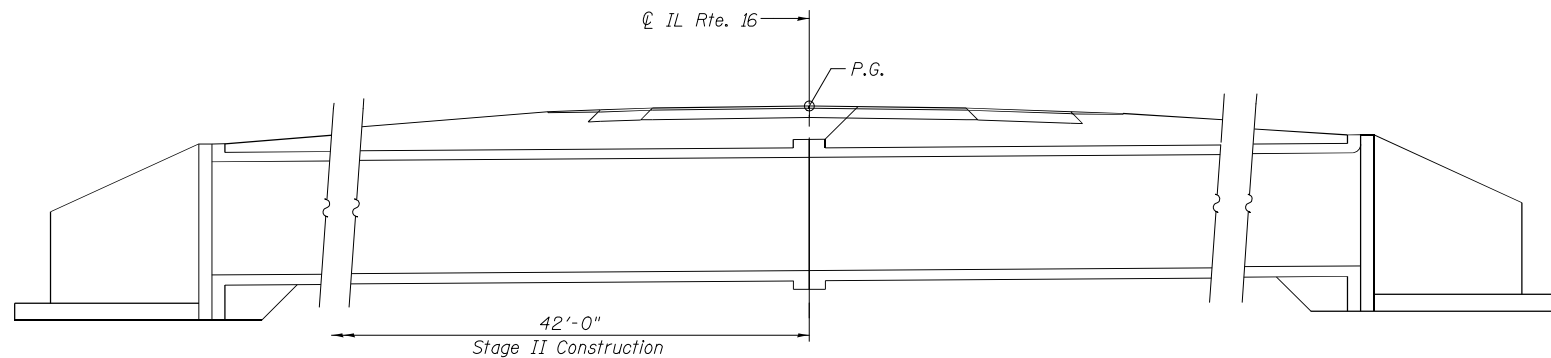
STAGE I REMOVAL
(Looking Northeast)



STAGE I CONSTRUCTION
(Looking Northeast)



STAGE II REMOVAL
(Looking Northeast)

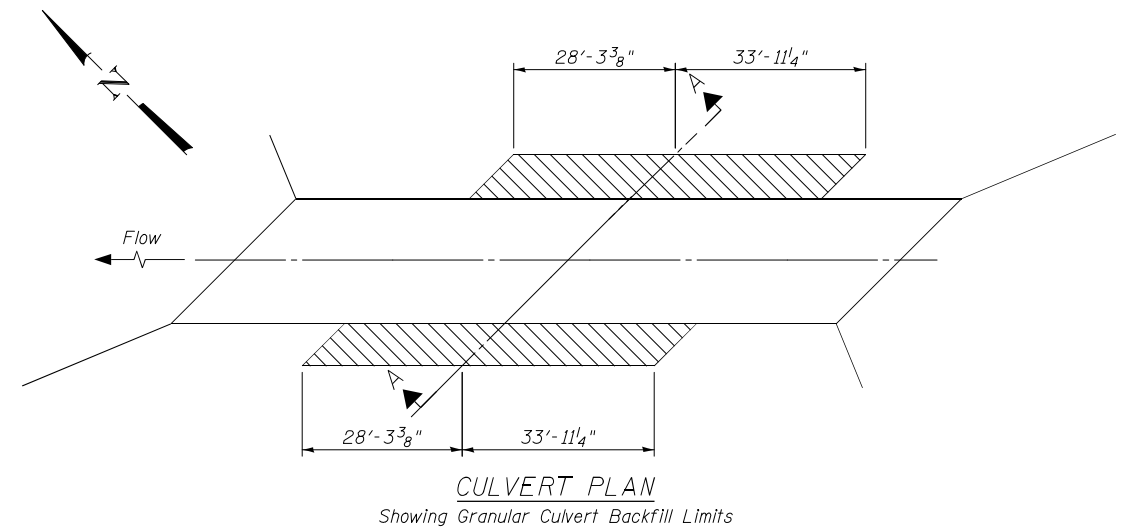


STAGE II CONSTRUCTION
(Looking Northeast)

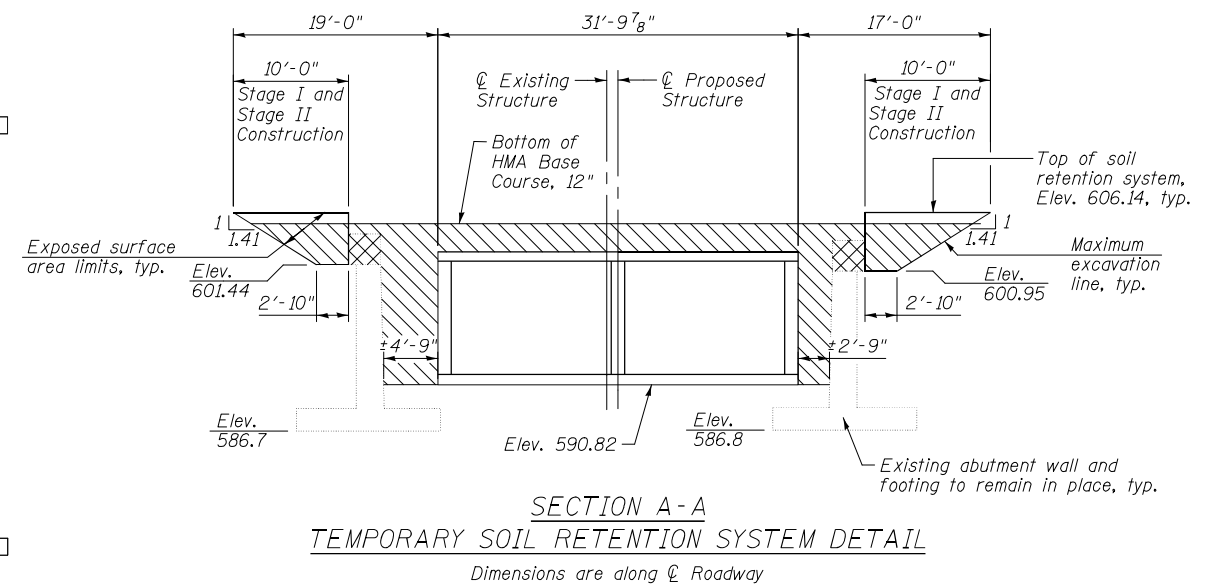
NOTES:

Dimensions are at Rt. L's to \odot Roadway unless noted otherwise.
 Cross hatched areas indicate Removal of Existing Structures.
 Hatched areas, including voids left by removal of existing abutment caps, indicate Granular Culvert Backfill. See Special Provisions.
 See Roadway Plans for quantity of Temporary Concrete Barrier.

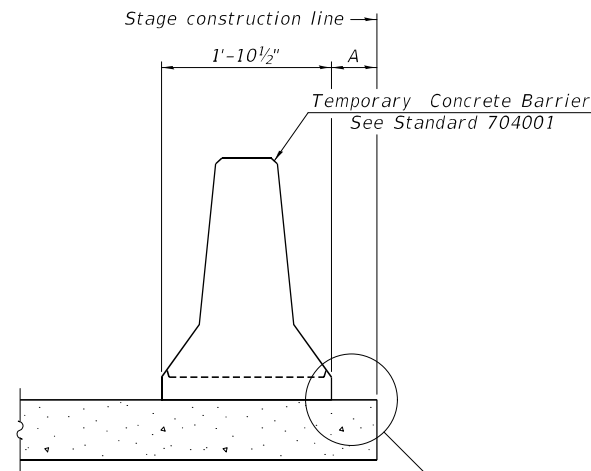
A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.



CULVERT PLAN
Showing Granular Culvert Backfill Limits

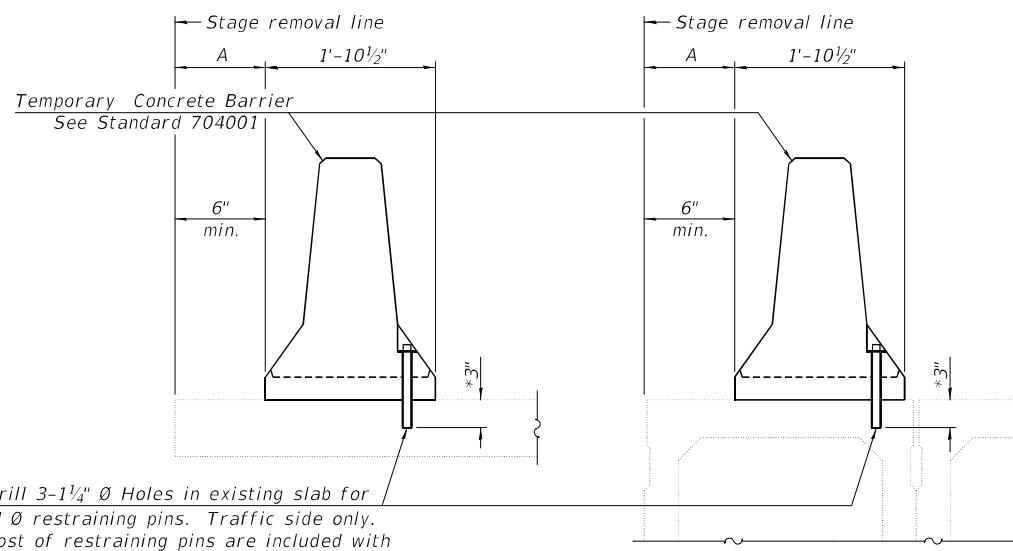


SECTION A-A
TEMPORARY SOIL RETENTION SYSTEM DETAIL
Dimensions are along \odot Roadway



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM

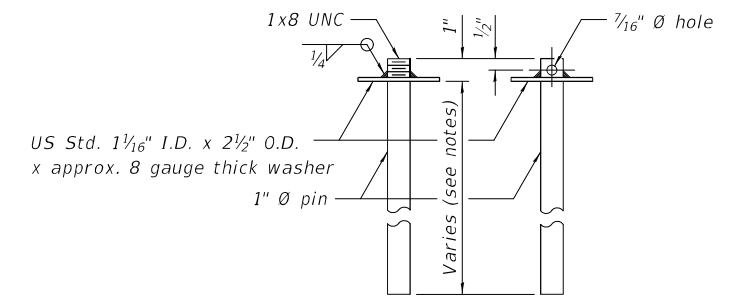


Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

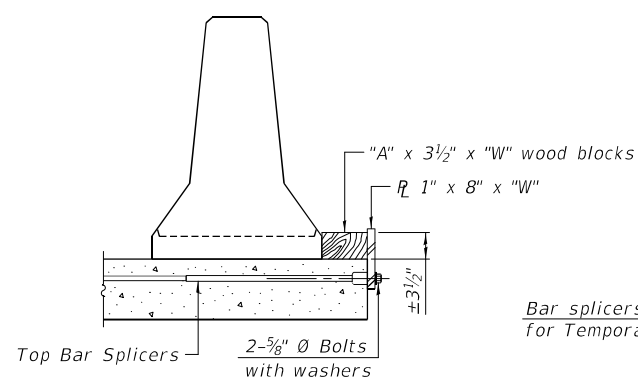
EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

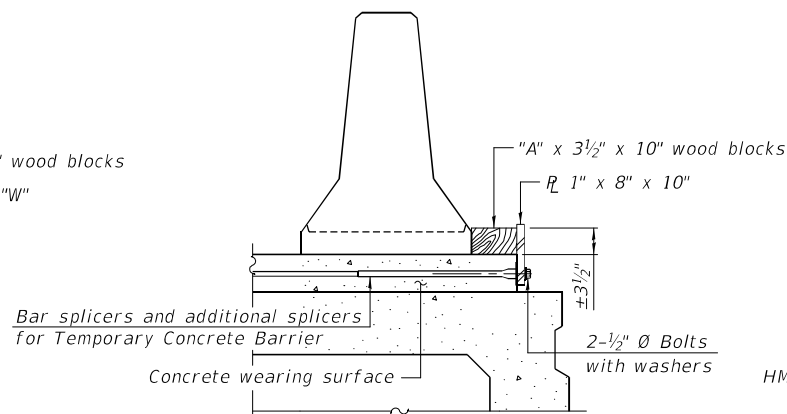


RESTRAINING PIN

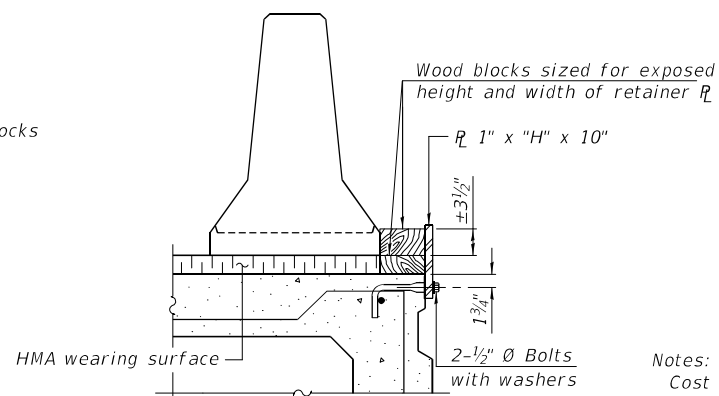
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.



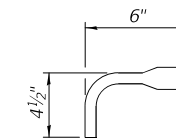
DETAIL I



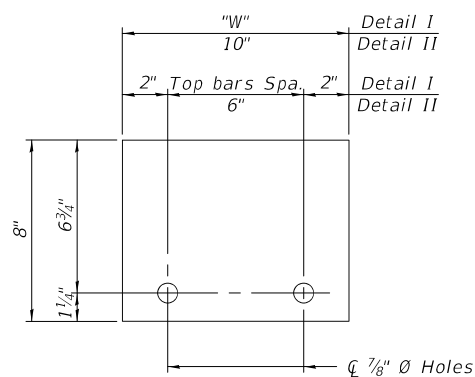
DETAIL II



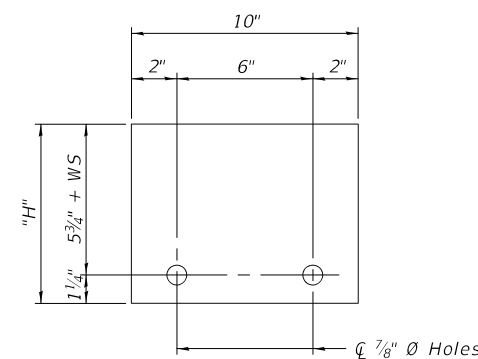
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER R 1" x "H" x 10"
(Detail III)

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate C of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

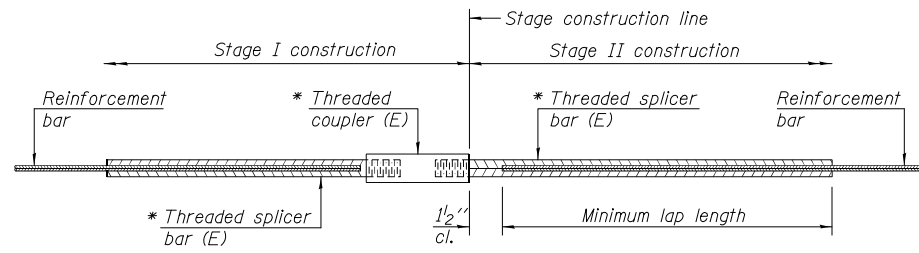
Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

R-27

2-17-2017

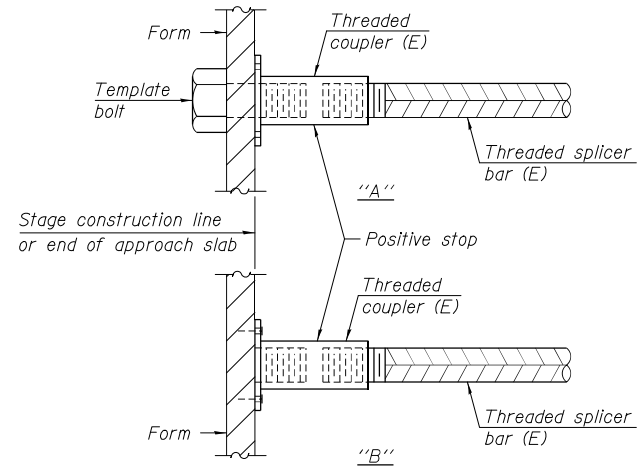


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Top Slab	#5	46	3'-2"
Bottom Slab	#5	46	3'-2"
Walls	#6	36	4'-4"

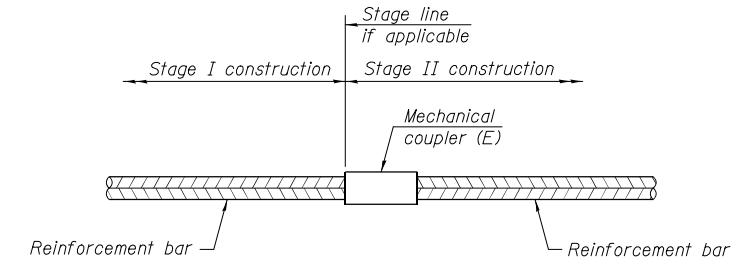


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

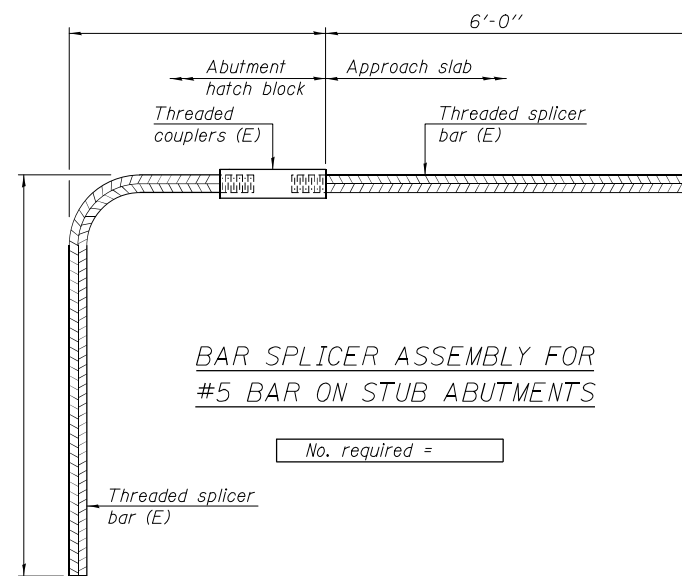
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications. See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

6-8-15

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

USER NAME = bhodgson
PLOT SCALE = 0.1" / 1'-0"
PLOT DATE = 2/17/2021

DESIGNED - AMC
CHECKED - MCB
DRAWN - MMY
CHECKED - MCB

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 059-2509**

SHEET NO. 7 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	114B-3	MACOUPIN	194	60
			CONTRACT NO. 72B64	
ILLINOIS FED. AID PROJECT				



Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1

Date 8/26/10

ROUTE FAP 325 DESCRIPTION Culvert carrying IL 16 over Piasa Cr. LOGGED BY M. Tappan

SECTION 114B-3 LOCATION SW 1/4, SEC. 21, TWP. 8N, RNG. 9W, 3 PM

COUNTY Macoupin DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	E	L	C	O	Stream Bed Elev.	E	L	C	O
BORING NO.	P	O	S	I	Groundwater Elev.:	P	L	W	S
Station	T	W	Qu	S	First Encounter	T	O	S	T
Offset	H	S			No Encounter	H	W	Qu	
Ground Surface Elev.	(ft)	/6"	(tsf)	(%)	Upon Completion	(ft)	/6"	(tsf)	(%)
					Dry				
					Plugged				
					Hrs.				
V. Dk Gray Moist SILTY CLAY (Fill)					Gray and Brown Moist CLAY LOAM (Till) (continued)				
	0					2			
	0	0.4	33			5	5.0	18	
	1	B				7	B		
602.80									
Lt Brown and Lt Gray Moist SILTY CLAY (Fill)									
	0					2			
	2	0.5	28			4	3.9	18	
	-5	B				7	B		
599.80									
Brown and Dk Gray Moist SILTY CLAY (Till)									
	0								
	2	1.4	21						
	3	B							
577.80					Olive Gray Moist SILTY CLAY (Till)				
	1					2			
	2	1.3	24			4	3.1	20	
	-10	B				7	S-13		
594.80									
Gray and Brown Moist CLAY (Till)									
	1								
	3	3.7	19						
	5	B							
592.80									
Gray and Brown Moist CLAY LOAM (Till)									
	2					2			
	5	4.8	29			4	2.1	23	
	-15	B				4	B		
570.80					Boring Complete				
	2								
	6	6.4	7						
	9	B							
	2								
	7	5.2	16						
	-20	B							

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)

File Name: S:\SOILSIGINT FILES\MACOUPIN\BBS-4514-IL-16-OVER-PIASA-CREEK.GPJ Data Template: DTE\BPLT.CDT Date Printed: 10/16/10 Latitude: 39.0368N Longitude: 90.0339W Datum: NAD83 Job Number: 72864



Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1

Date 8/26/10

ROUTE FAP 325 DESCRIPTION Culvert carrying IL 16 over Piasa Cr. LOGGED BY M. Tappan

SECTION 114B-3 LOCATION SW 1/4, SEC. 21, TWP. 8N, RNG. 9W, 3 PM

COUNTY Macoupin DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	E	L	C	O	Stream Bed Elev.	E	L	C	O
BORING NO.	P	O	S	I	Groundwater Elev.:	P	L	W	S
Station	T	W	Qu	S	First Encounter	T	O	S	T
Offset	H	S			No Encounter	H	W	Qu	
Ground Surface Elev.	(ft)	/6"	(tsf)	(%)	Upon Completion	(ft)	/6"	(tsf)	(%)
					Dry				
					Plugged				
					Hrs.				
Brown and Dk Gray Moist SILTY CLAY (Fill)					Gray and Brown Moist CLAY LOAM (Till) (continued)				
	1					2			
	2	1.1	18			4	4.2	16	
	3	B				7	B		
600.80									
Gray									
	1					2			
	2	0.7	22			4	3.5	13	
	-5	B				6	B		
596.80					Brown and Gray V. Moist SILTY CLAY LOAM (Fill)				
	0								
	0	0.2	23						
	0	B							
577.80					Gray and Olive Brown Moist SILTY CLAY (Till)				
	0								
	1					1			
	2	0.6	23			4	3.2	17	
	-10	B				5	B		
594.80					Gray Moist SILTY CLAY				
	0								
	0	0.9	24						
	2	B							
570.80					Gray				
	0								
	1	0.8	22			1			
	-15	B				3	2.8	20	
	2	B				5	B		
569.80					Boring Complete				
	1								
	3	3.2	16						
	4	B							
	2								
	4	4.0	18						
	-20	B							

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)

File Name: S:\SOILSIGINT FILES\MACOUPIN\BBS-4514-IL-16-OVER-PIASA-CREEK.GPJ Data Template: DTE\BPLT.CDT Date Printed: 10/16/10 Latitude: 39.0368N Longitude: 90.0339W Datum: NAD83 Job Number: 72864



USER NAME = bhodgson
PLOT SCALE = 0.1" / 1' / 1" / 1"
PLOT DATE = 2/17/2021

DESIGNED - AMC
CHECKED - MCB
DRAWN - MMY
CHECKED - MCB

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 059-2509

SHEET NO. 8 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	114B-3	MACOUPIN	194	61
CONTRACT NO. 72B64			ILLINOIS FED. AID PROJECT	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

FA RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 91	M BR	MACOUPIN	28	1

P-96-020-73

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FOR INDEX OF SHEETS SEE SHEET NO. 1

INDEX OF SHEETS

SHEET NO.	TITLE
1	COVER SHEET
2	TYPICAL SECTIONS
3	SUMMARY OF QUANTITIES
4	PLAN AND PROFILE - STA. 629+58
5	PLAN AND PROFILE - STA. 701+20
6 -1 4	BRIDGE DETAILS - STA. 629+58
15-23	BRIDGE DETAILS - STA. 701+20
24-28	CROSS SECTIONS

SCALES { PLAN
PROFILE HOR.
PROFILE VERT.
CROSS-SECTIONS



F.A. ROUTE 91 SECTIONS 114 (BR, BR-1) PROJECT RF-91(27) MACOUPIN COUNTY

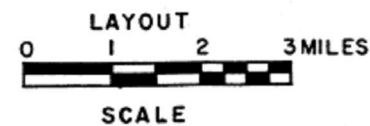
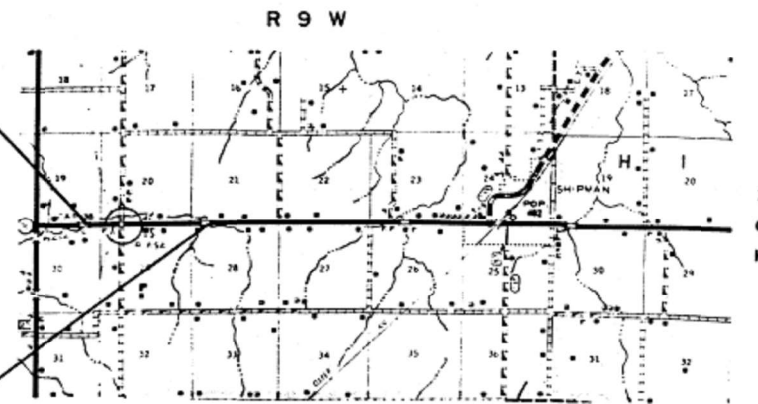
C-96-067-79

STANDARDS

1686-4	2303-4
2113-1	2304-4
2115-7	2306-4
2230-II	2309-3
2298-4	2336
2299-7	2340-1
2300-1	2359-1
2302-3	

SECTION 114 BR INCLUDES THE REMOVAL OF THE EXISTING CONCRETE DECK GIRDER SUPERSTRUCTURE (1-54'3") AND THE CONSTRUCTION OF A PRECAST DECK BEAM SUPERSTRUCTURE AT STATION 629+58

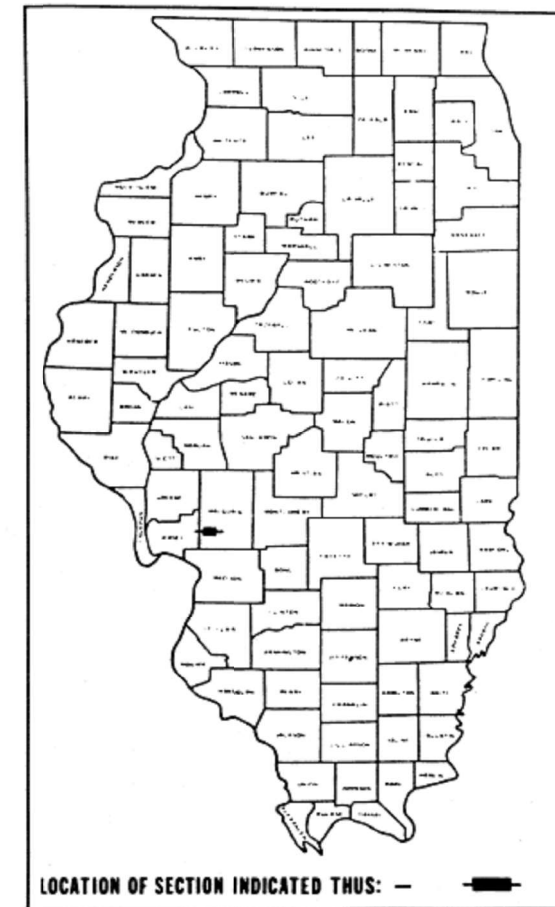
SECTION 114 BR-1 INCLUDES THE REMOVAL OF THE EXISTING CONCRETE DECK GIRDER SUPERSTRUCTURE (1-44'3") AND THE CONSTRUCTION OF A PRECAST DECK BEAM SUPERSTRUCTURE AT STATION 701+20



DESIGN DESIGNATION

2900 (79) MAJOR 1.383 (B-15)

NET LENGTH OF SECTION 114 BR 455 FT. =0.086 MILES
NET LENGTH OF SECTION 114 BR-1 340 FT. =0.064 MILES
NET LENGTH OF PROJECT 795 FT. =0.15 MILES



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

SUBMITTED: April 15, 79

EXAMINED: May 31, 79 DISTRICT ENGINEER

PASSED: May 31, 79 ENGINEER IN CHARGE OF PLANS AND CONTRACTS

APPROVED: Thomas R. Bright DIRECTOR DIVISION OF HIGHWAYS

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED

DIVISION ADMINISTRATOR _____ DATE _____

60-120

CONTRACT NO. 33837

MACOUPIN COUNTY SECTION 114 BR & 114 BR-1 ROUTE EA 91

USER NAME = cancels	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/18/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

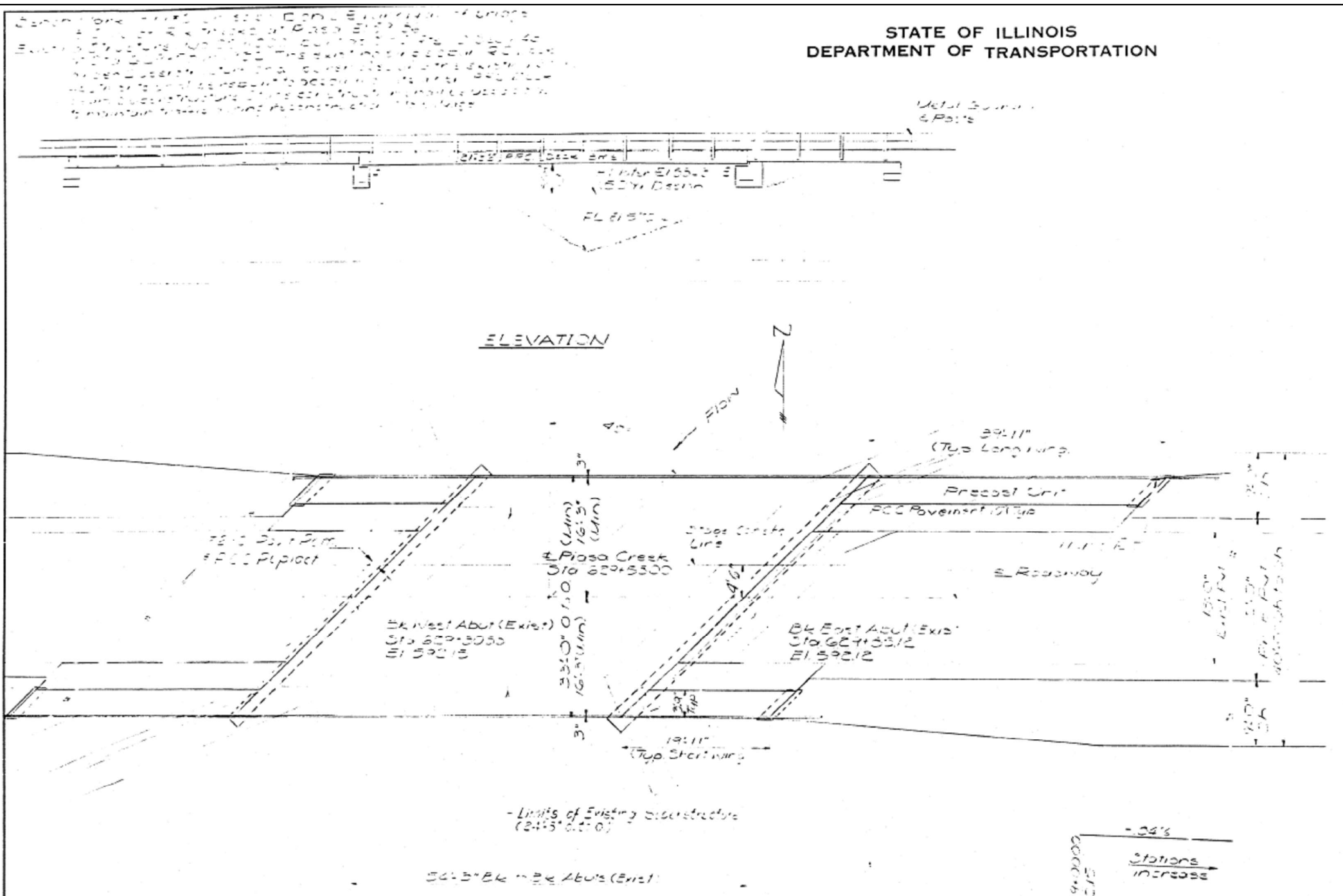
STRUCTURE PLANS - FOR INFORMATION ONLY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114-116)B-2,3,4	MACOUPIN	194	62
CONTRACT NO. 72B64				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3/25	114B-2,3,4	MACOUPIN	194	64



It shall be the responsibility of the contractor to verify, or adjust, the grade conditions existing in the field prior to construction and grading of materials. The top surface of the beams shall be finished in accordance with Article 605.06 of the Standard Specifications except that the surface shall not be roughened by treatment. The finished surface shall be free of the presence of any spots, with sharp corners. Exposed ends shall be finished with a smooth surface and shall be rounded ends. The contractor shall be responsible for the maintenance of the structure during construction.

ITEM	QUANTITY	UNIT	PRICE	TOTAL
Concrete	1000	cu yd	120	120000
Reinforcing Steel	100	tons	1000	100000
Steel Decking	100	sq ft	10	1000
Formwork	100	sq ft	5	500
Paint	100	gal	10	1000
Other Materials	100	various	10	1000

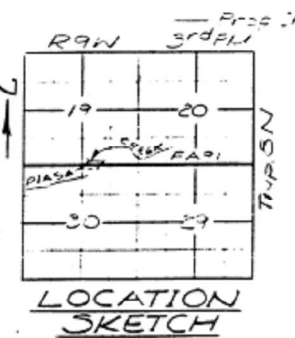
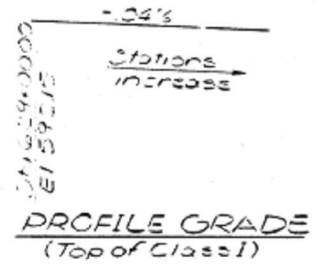
Station 629+50.00
Pier Built 1875
State of Illinois
I.A.P. 21 Sec. 11-52
Looking West
Sta. No. 629+50.00

NAME PLATE
See Std 215

DESIGNED	T. J. J. J.	EXAMINED	April 3, 1979
CHECKED	T. J. J. J.	PASSED	
DRAWN	F. J. J.	APPROVED	
CHECKED	T. J. J. J.		

WATERWAY INFORMATION
 Drainage Area 58.3 sq Miles
 Design Discharge 2218 cfs
 Exist. Opening (below 50yr HWE) 2705 sq ft
 Reg'd Opening (below 50yr HWE) 2705 sq ft
 Prop. Opening (below 50yr HWE) 2705 sq ft
 Created Head for Design Flood 1.3'
 100 Year Discharge 3016 cfs
 Created Head for 100 Year Flood 6.4'
 100 Year H.W. Elev. 534.3
 50 Year Design H.W. Elev. 534.3

DESIGN STRESSES
FIELD UNITS
 f'c = 3,500 psi
 f'y = 60,000 psi (Reinf.)
 f's = 20,000 psi (Struct.)
PRECAST PRESTR UNITS
 f'e = 5000 psi
 f'ci = 4000 psi
 f's = 270,000 psi (12" strands)
 f's = 189,000 psi (12" strands)
 Design Specification 1977 AASHTO, 1978 Interim Specifications
 Allow 25% for future wearing surf.



GENERAL PLAN & ELEVATION
 F.A. RTE. 91 OVER PIASA CREEK
 I.A. ROUTE 91
 SECTION 114B-2
 MACOUPIN COUNTY
 STATION 629+5500

MODEL: Default FILE: NAME: ...

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PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

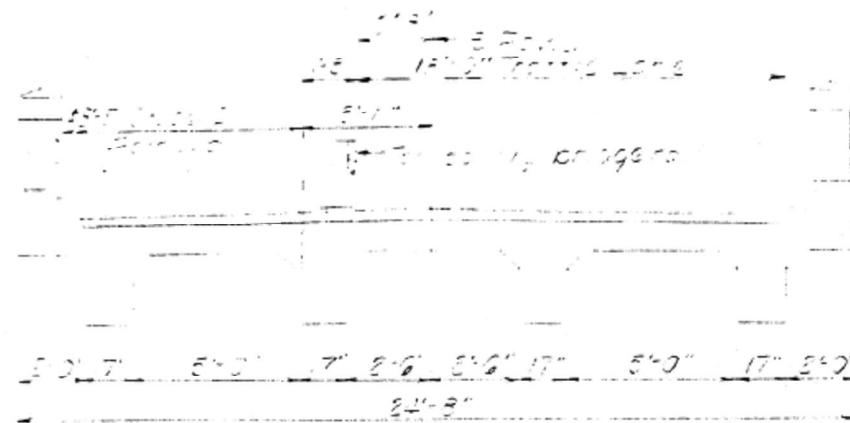
STRUCTURE PLANS - FOR INFORMATION ONLY

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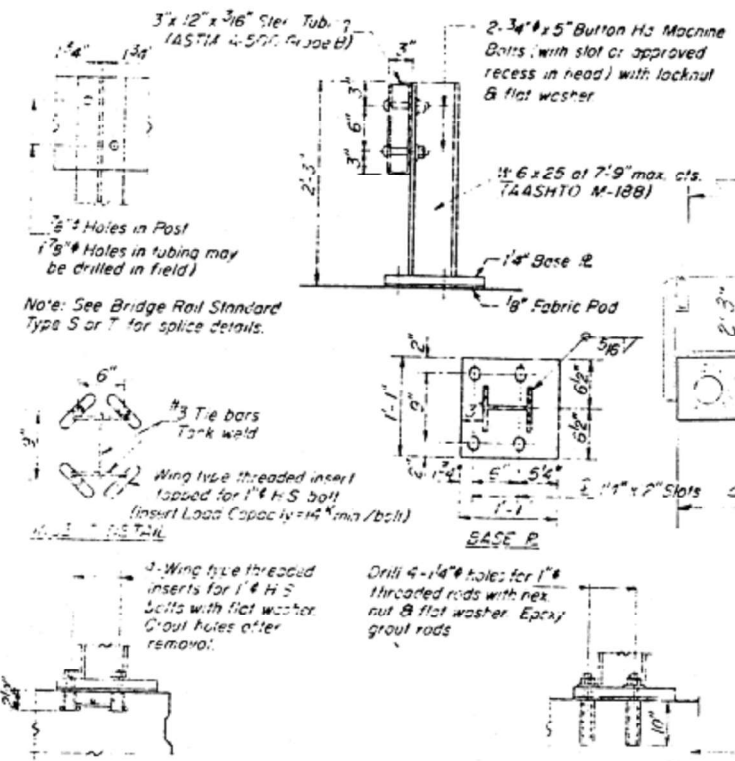
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114-116)B-2,3,4	MACOUPIN	194	64
CONTRACT NO. 72B64				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

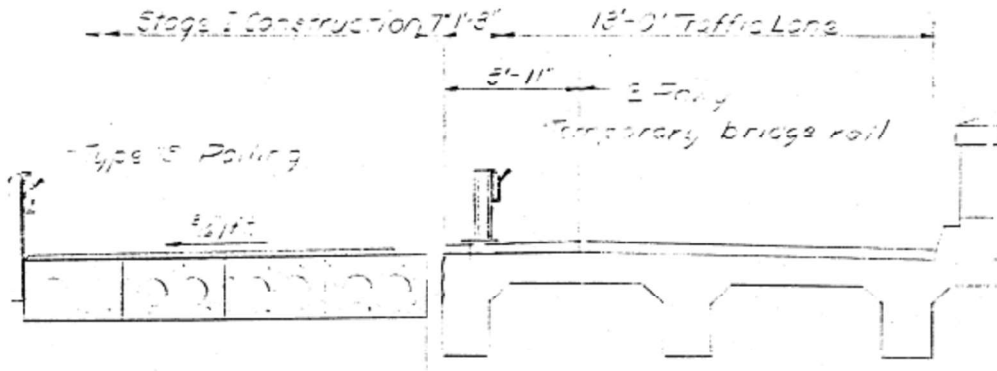
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114-116)B-2,3,4	MACOUPIN	194	65
CONTRACT NO. 72B64			ILLINOIS FED. AID PROJECT	



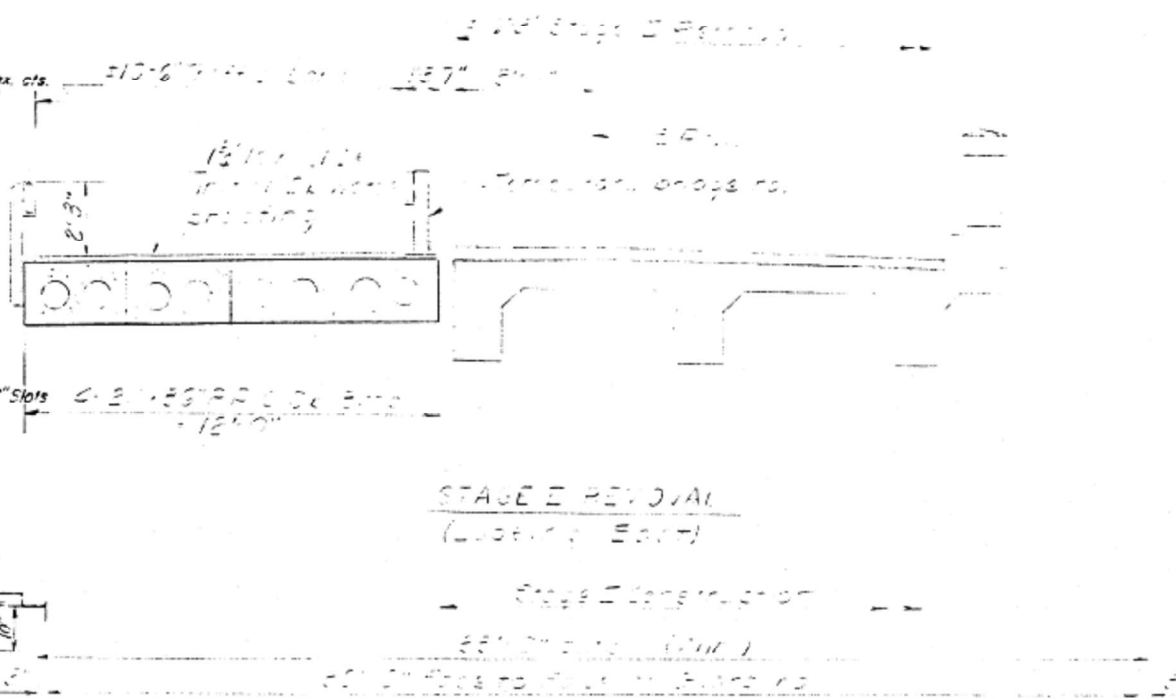
STAGE I REMOVAL
(Looking East)



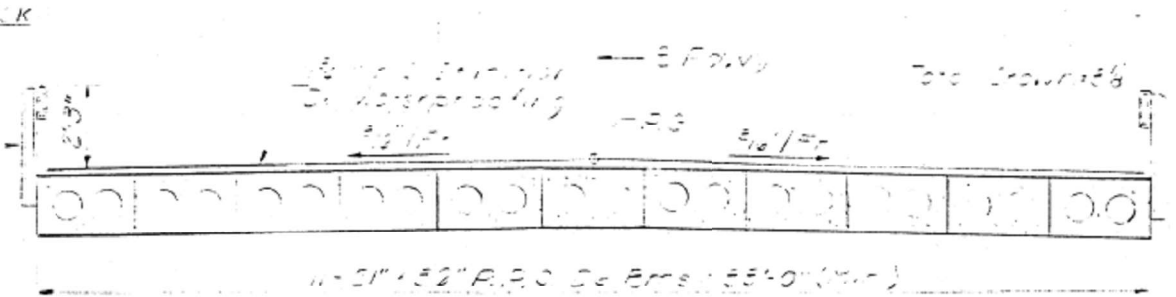
PPG DECK BEAMS
TEMPORARY BRIDGE RAIL DETAILS



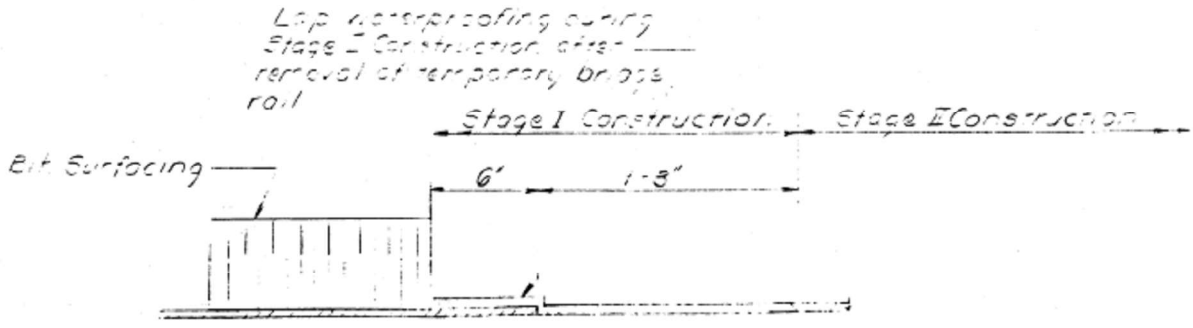
STAGE I CONSTRUCTION
(Looking East)



STAGE II REMOVAL
(Looking East)



CROSS SECTION
(Looking East)



WATERPROOFING TREATMENT

STAGE CONSTRUCTION
PART 91 SECTION
MACOUPIN COUNTY
STA. 629+58.0

DESIGNED Dale F. Schmitt	EXAMINED [Signature]
CHECKED [Signature]	PASSED [Signature]
DRAWN Mercoso	APPROVED [Signature]
CHECKED [Signature]	

USER NAME = cancels	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS - FOR INFORMATION ONLY			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

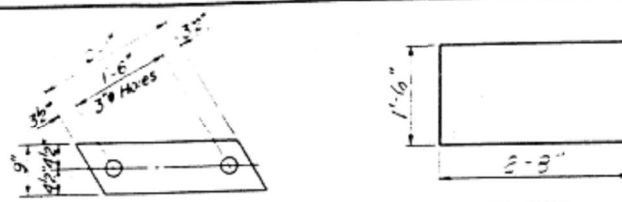
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325	(114-116)B-2,3,4	MACOUPIN	194	65
CONTRACT NO. 72B64			ILLINOIS FED. AID PROJECT	

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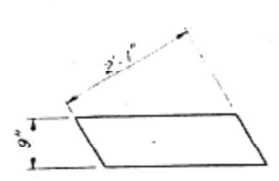
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	BY	CHKD	APP'D	SHEET NO.
				1

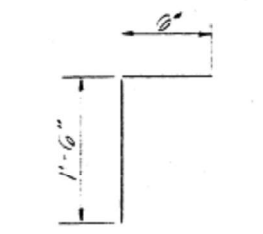
5 SHEETS



FABRIC BEARING PAD



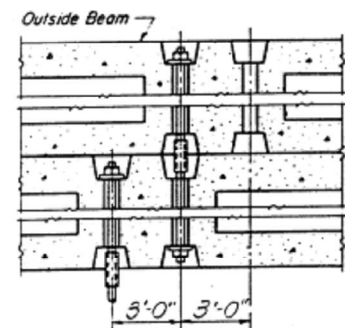
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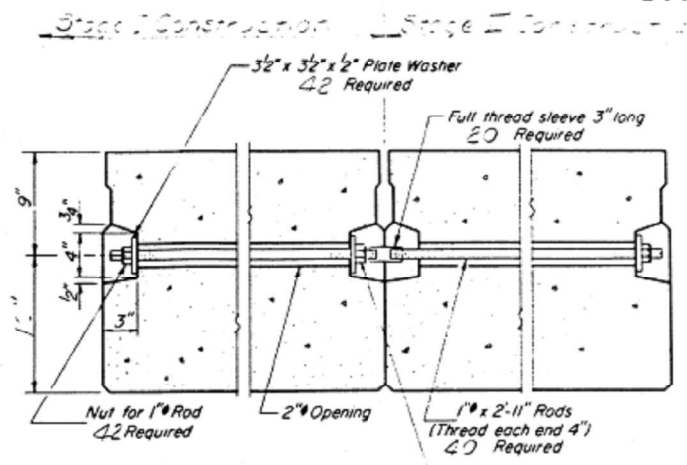
U BAR

U BAR

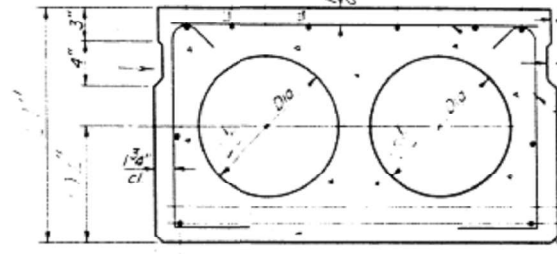
D BAR



TYPICAL TRANSVERSE TIE ASSEMBLY
(2 Extra washers & 2 Extra Nuts are provided for Stage Construction)

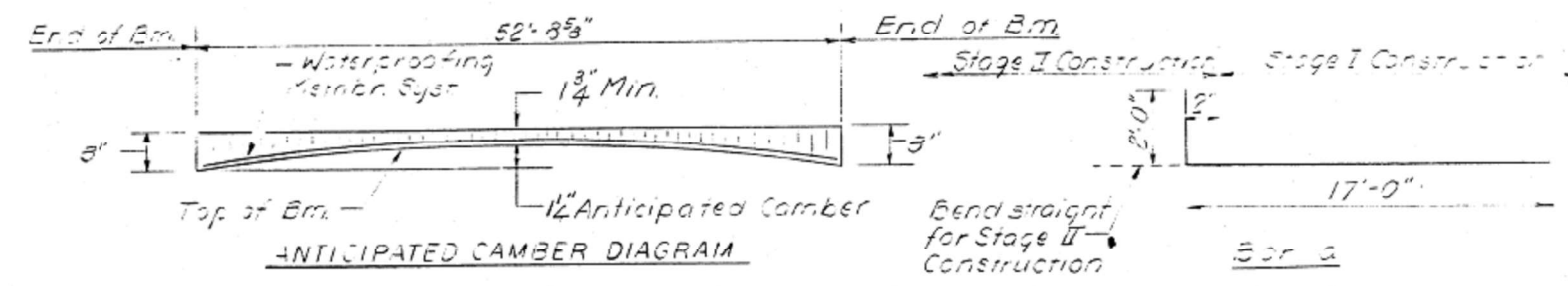


4-#5 B bars
Full length of beam

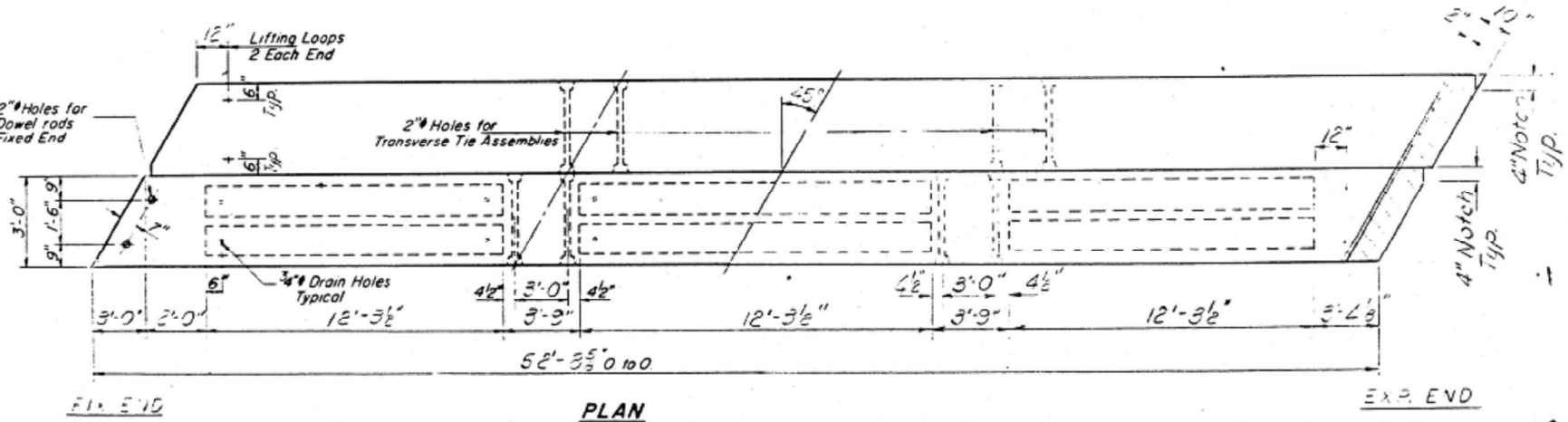


TYPICAL SECTION

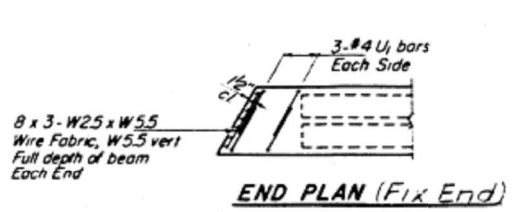
12-# Strands, Each Strand Stressed to 28,900 Lbs
10-Strands 13\"/>



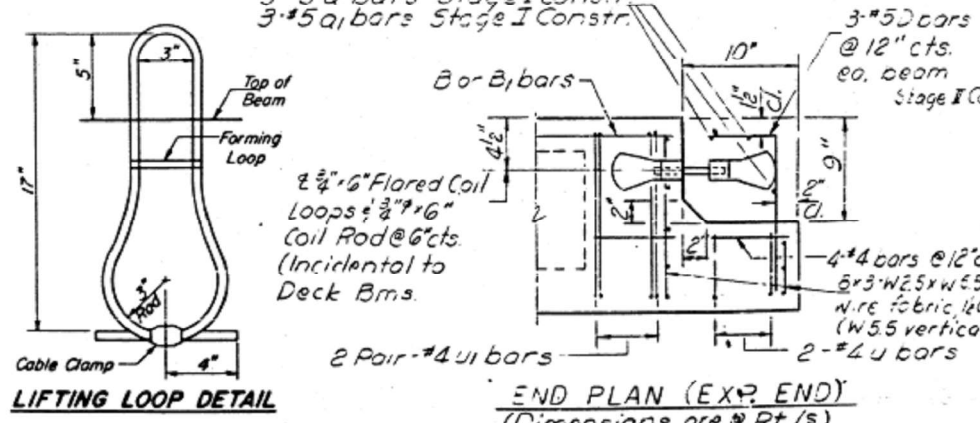
ANTICIPATED CAMBER DIAGRAM



PLAN

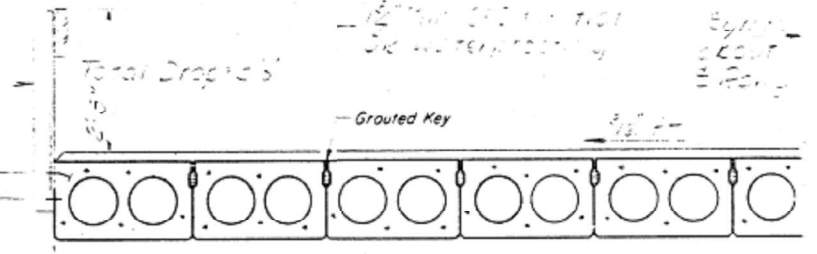


END PLAN (Fix End)



LIFTING LOOP DETAIL

Provide for post anchor devices see S17



HALF CROSS SECTION

NOTES

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq in. Lifting loops shall be 5/8" diameter, 6 x 25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 33,000 lbs. The 1/4" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set after assembly is in place. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place. Longitudinal shear keys shall be packed with a very dry mix of 2-1 sand and PC mortar. After beams have been erected, holes for the dowel anchors shall be drilled into the sub-structure and the anchor dowels shall be grouted in place. Reinforcement bars shall conform to AASHTO: M-31 or M-53, Grade 60.

BILL OF MATERIAL

Bar	No	Size	Length	Shape
Q	2	#5	19'-0"	
U	3	#5	23'-6"	
Precast Prestressed Concrete Deck Beams		Sq Ft	1740	
Class X Concrete		CFT	37	
Reinforcement Bars		Pounds	150	

See note on sheet #8

DESIGNED Dale J. Schaub
CHECKED Keithling Hanel
DRAWN FM
CHECKED J. J. H.

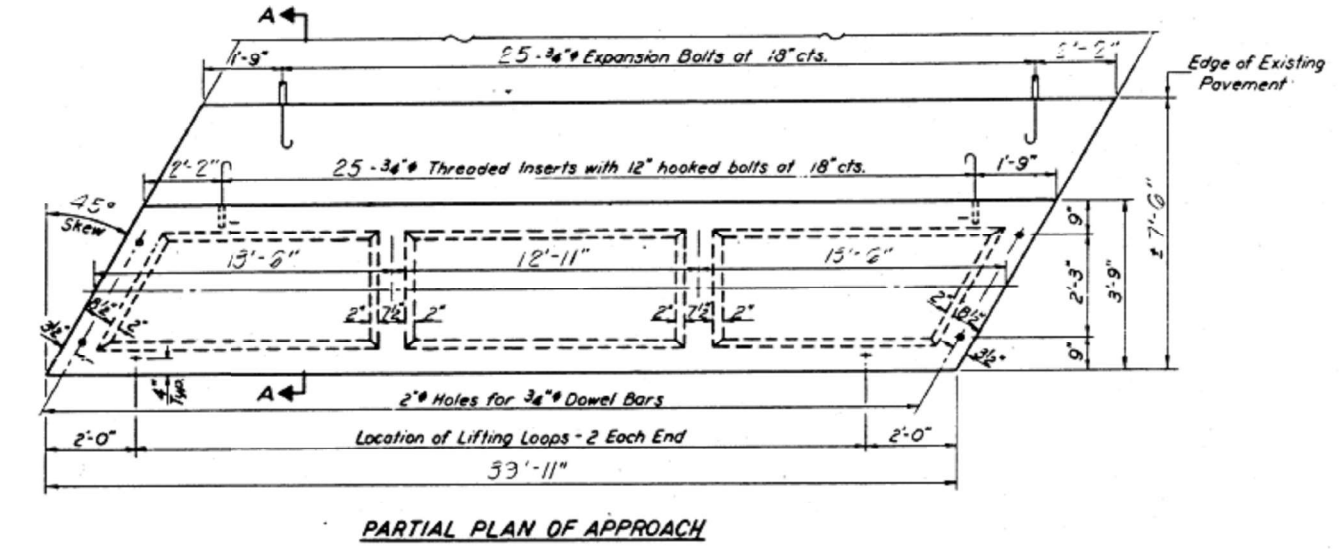
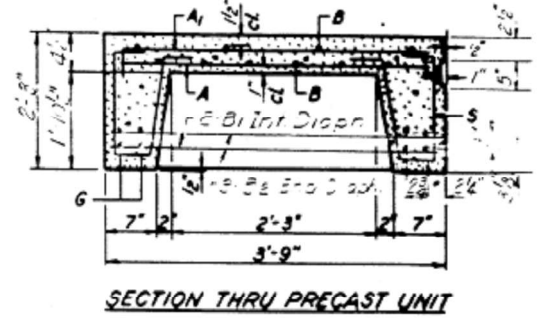
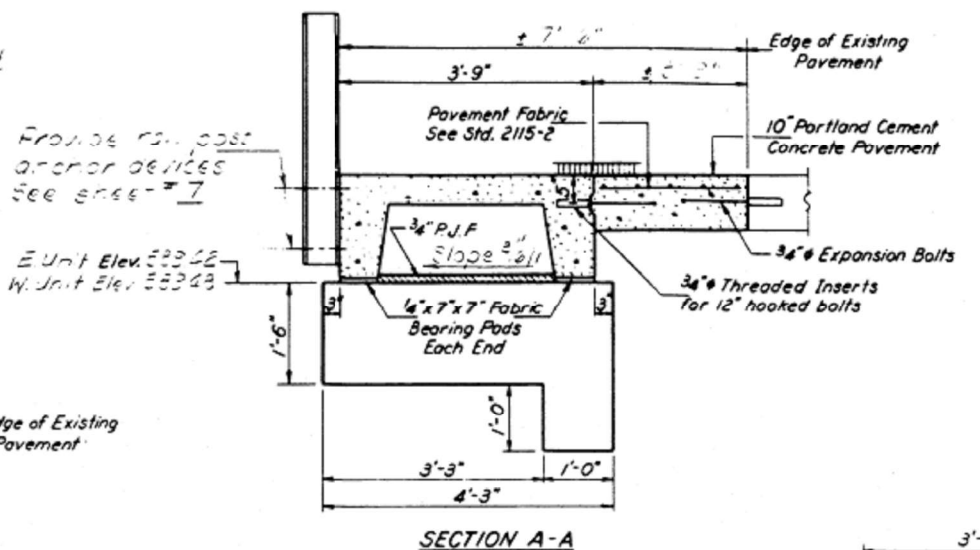
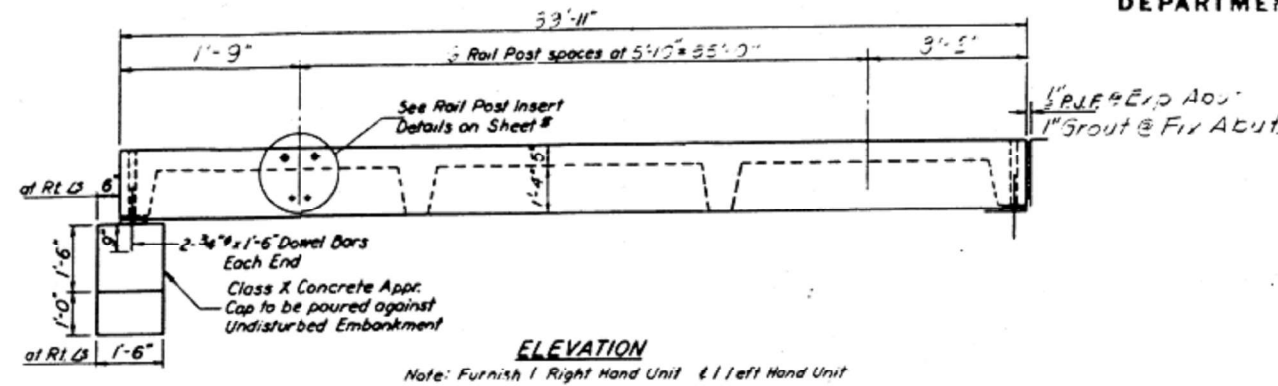
EXAMINED
PASSED
APPROVED

PD-3-L 8-1-78

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114-116)B-2,3,4	MACOUPIN	194	66
ILLINOIS			FED. AID PROJECT	

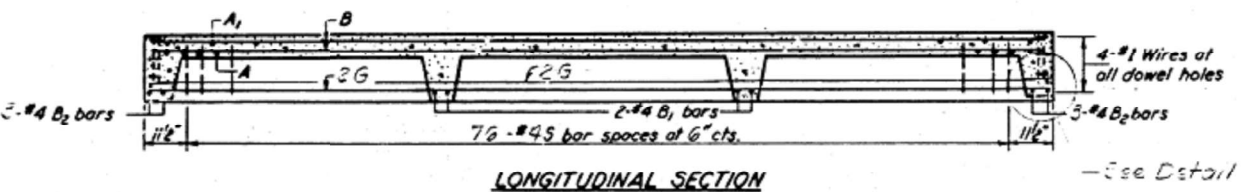
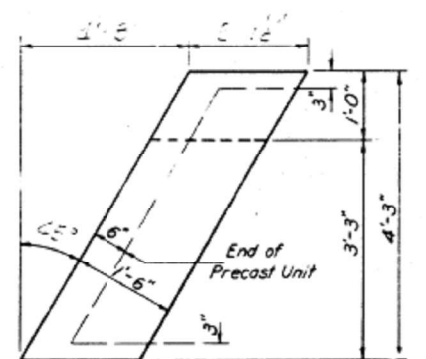
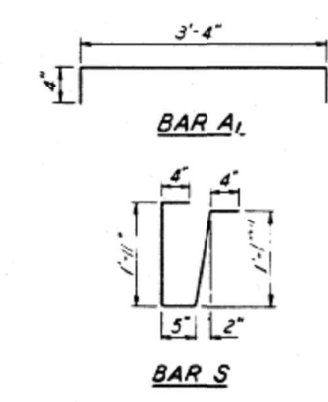
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

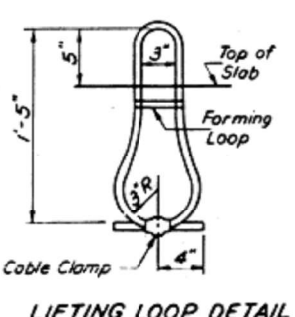
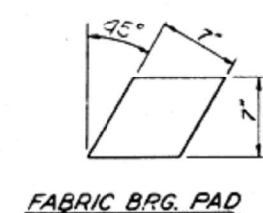
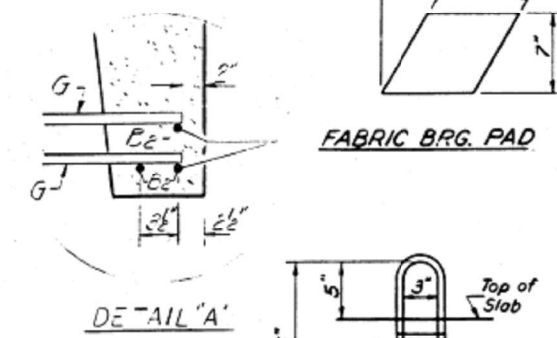
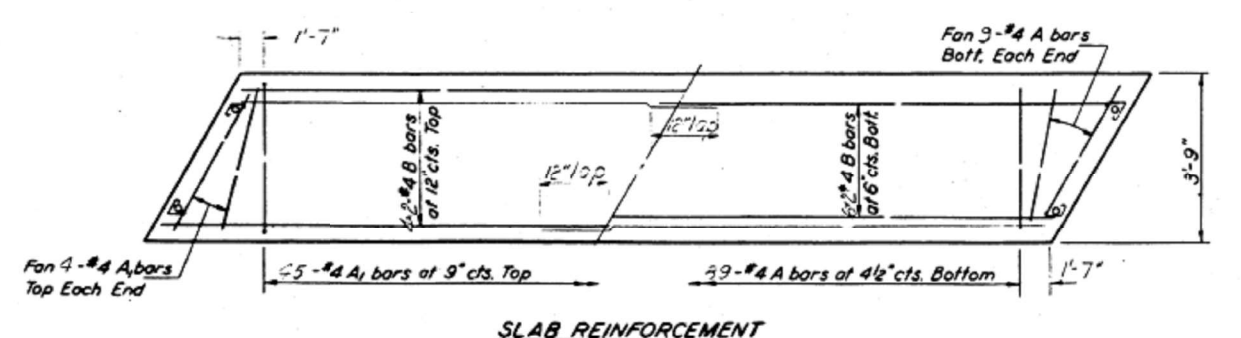


BAR LIST - ONE UNIT
Reinforcement to be cast into slab

Bar	No.	Size	Length	Shape
A	107	#4	3'-3"	—
A ₁	57	#4	4'-0"	—
B	20	#4	3'-2"	—
B ₁	4	#4	3'-6"	—
B ₂	6	#4	2'-0"	—
G	3	#11	20'-"	—
S	152	#6	5'-10"	U



Weld ends of 3 bars to B2 bars with full bead weld
— See Detail "A"



NOTES
Unless otherwise approved by the Engineer, lifting loops shall be 5/8" 6x25 class wire rope with fiber core and shall have a minimum ultimate strength of 33,000 lbs. Loops shall be burned off after slab has been erected. Holes shall be drilled and anchor dowels grouted in place. Cost of reinforcement and accessories cast into the slab unit, bearing pads, furnishing, drilling for, placing and grouting anchor dowels and 3/4" hooked bolts is included in Unit bid price for "Precast Concrete Bridge Slab." The Precast Concrete Bridge Slab shall be erected and aligned with the exterior face of the exterior Deck Beam after Deck Beams are in final position. Bars indicated thus 6x2-#4 etc. indicates 6 lines of bars with 2 lengths per line.

TWO UNITS
BILL OF MATERIAL

Item	Unit	Quantity
Precast Concrete Bridge Slab	Sq. Ft.	300
Portland Cement Concrete Pavement (10)	Sq. Yds.	32
Pavement Fabric	Sq. Yds.	52
Expansion Bolts 3/4"	Each	100
Class X Concrete	Cu. Yds.	12

STRESSES
f_c = 4,500 psi.
f_t = 1,800 psi.
f_s = 20,000 psi.
n = 8
LOADING HS-20

LONG UNITS
APPROACH DETAILS
F.A.P. 31 SEC. 1142 P
MACOLPIN COUNTY
STA. 629+58.00

DESIGNED Dale F. Schaub
CHECKED Lu Sheng Houch
DRAWN J.L. Armstrong
CHECKED J.S.H.
EXAMINED
PASSED
APPROVED
DIRECTOR OF HIGHWAYS

AP-3 20' Precast Appr. Unit (Skewed L.F.) (5-15-77)

USER NAME = cancels	DESIGNED -	REVISED -
PLOT SCALE = 100,000' / 1 in.	DRAWN -	REVISED -
PLOT DATE = 8/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

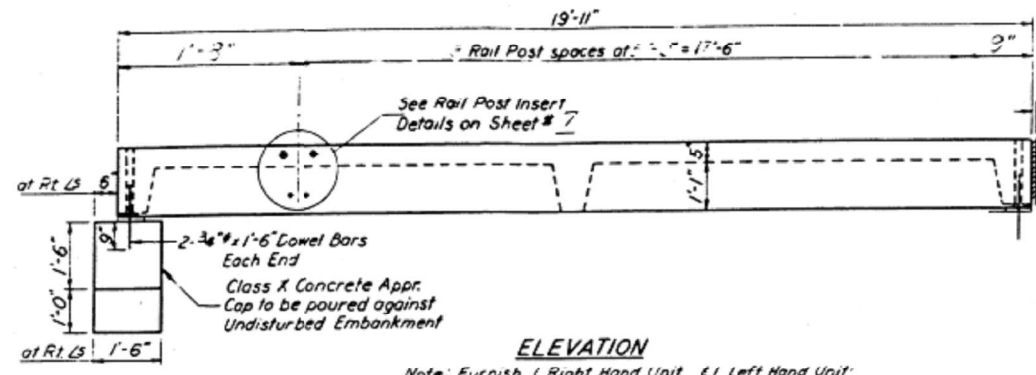
STRUCTURE PLANS - FOR INFORMATION ONLY

SCALE: SHEET OF SHEETS STA. TO STA.

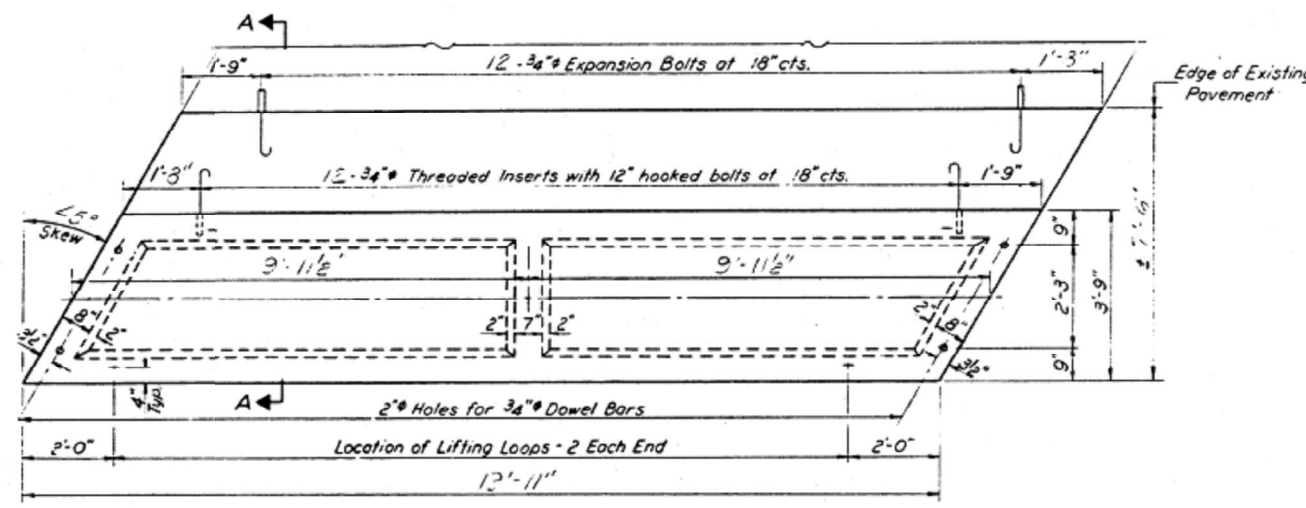
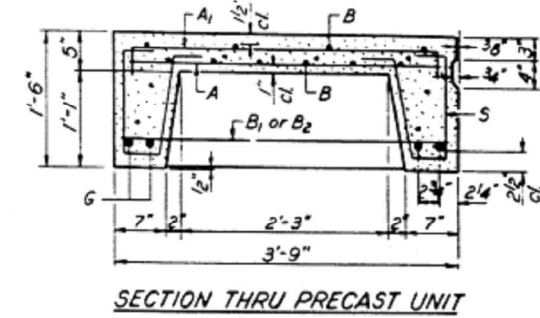
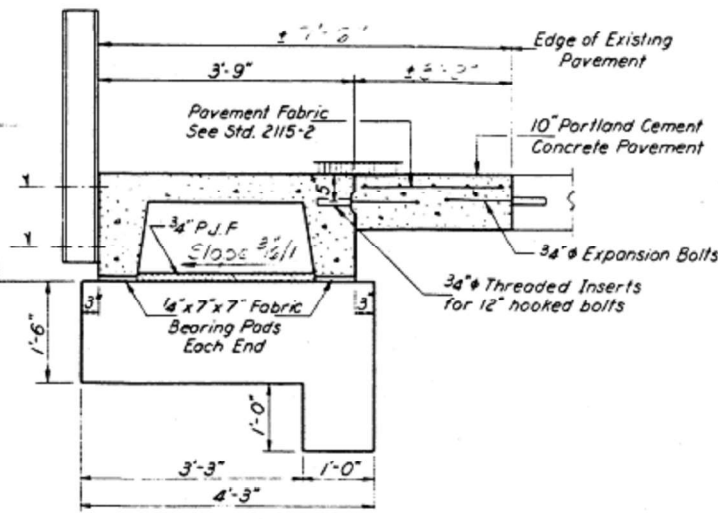
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114-116)B-2,3,4	MACOUPIN	194	67
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72B64	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO.	3	SHEETS
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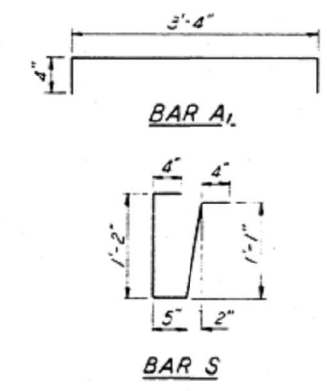


Provide 1/2" post
2" x 2" of concrete
see sheet #7



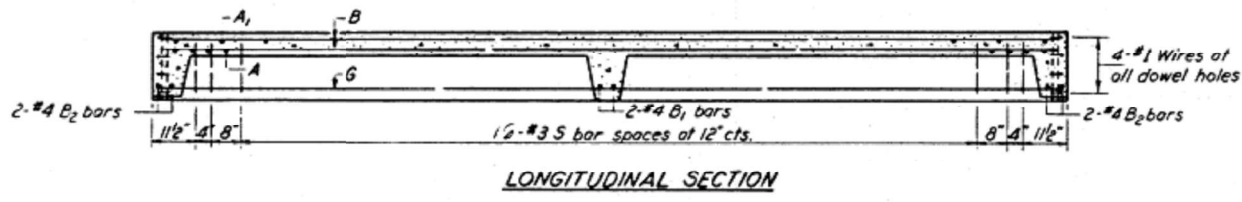
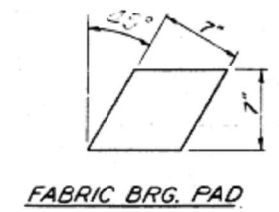
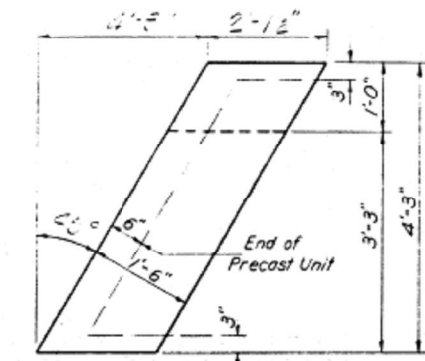
BAR LIST - ONE UNIT
Reinforcement to be cast into slab

Bar	No	Size	Length	Shape
A	55	#4	3'-3"	—
A ₁	22	#4	4'-0"	—
B	10	#4	13'-6"	—
B ₁	2	#4	3'-6"	—
B ₂	4	#4	5'-0"	—
G	4	#10	13'-6"	—
S	45	#3	3'-4"	U



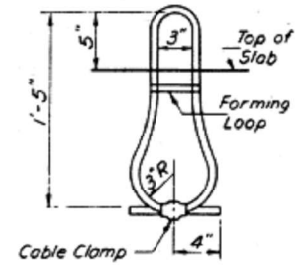
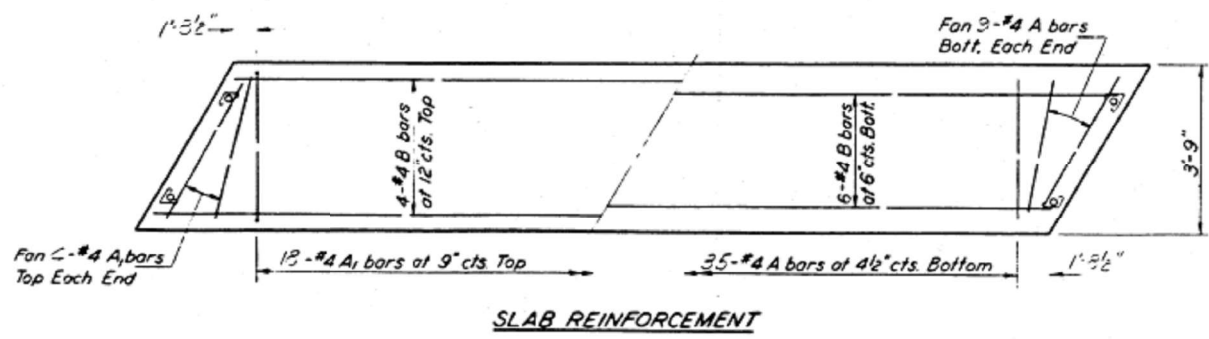
NOTES

Unless otherwise approved by the Engineer, lifting loops shall be 1/2" 6x25 class wire rope with fiber core and shall have a minimum ultimate strength of 21,000 lbs. Loops shall be burned off after slab has been erected. Holes shall be drilled and anchor dowels grouted in place. Cost of reinforcement and accessories cast into the slab unit, bearing pads, furnishing, drilling for, placing and grouting anchor dowels and 3/4" hooked bolts is included in Unit bid price for "Precast Concrete Bridge Slab." The Precast Concrete Bridge Slab shall be erected and aligned with the exterior face of the exterior Deck Beam after Deck Beams are in final position.



TWO UNITS
BILL OF MATERIAL

Item	Unit	Quantity
Precast Concrete Bridge Slab	Sq. Ft.	143
Portland Cement Concrete Pavement (10)	Sq. Yds.	17
Pavement Fabric	Sq. Yds.	17
Expansion Bolts 3/4"	Each	23
Class X Concrete	Cu. Yds.	1.2



STRESSES

f_c = 4,500 psi.
f_c = 1,800 psi.
f_s = 20,000 psi.
n = 8

LOADING HS-20

SHORT UNITS
APPROACH DETAILS
-A-APP-31 SEC. 11-EP
MACOUPIN (2011)
STA 622+55.22

DESIGNED: Dale F. Schank
CHECKED: Lee Shing Hunk
DRAWN: J.L. Armstrong
CHECKED: J.L. Armstrong

EXAMINED: [Signature]
PASSED: [Signature]
APPROVED: [Signature]
DIRECTOR OF HIGHWAYS

AP-3 20' Precast Appr Unit (Stewed L.F.) (13-13-71)

USER NAME = cancels	DESIGNED -	REVISED -
PLOT SCALE = 100,000' / 1"	DRAWN -	REVISED -
PLOT DATE = 8/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS - FOR INFORMATION ONLY

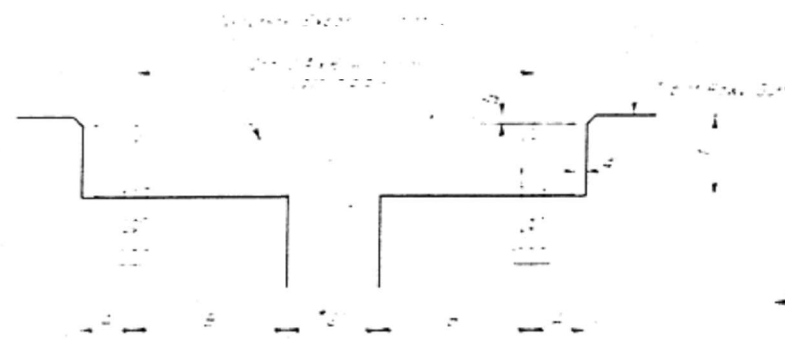
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114-116)B-2,3,4	MACOUPIN	194	68
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72B64	

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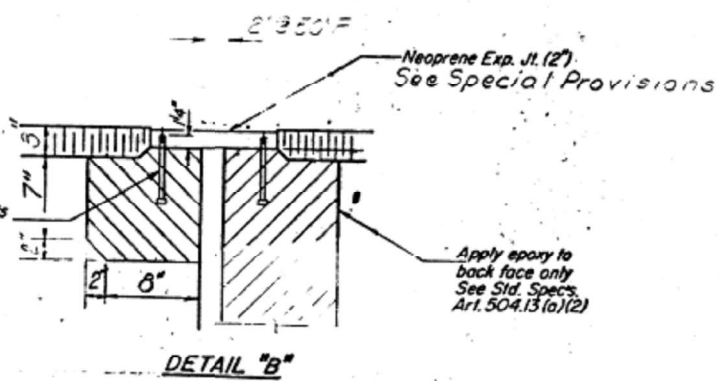
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Limits of Waterproofing Membr. Sys.



CROSS SECTION
2'-5" 1/2"
Clear width of roadway

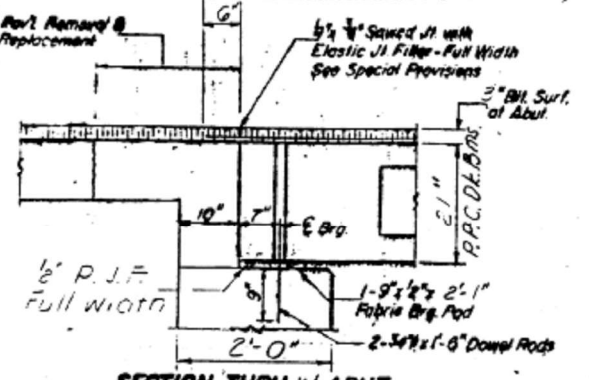
NOTE:
Joint seal type shall be as shown in the drawings with Article 502.07(a) of the Std. Specs. when the seal is poured at or after temperature other than 70°F.



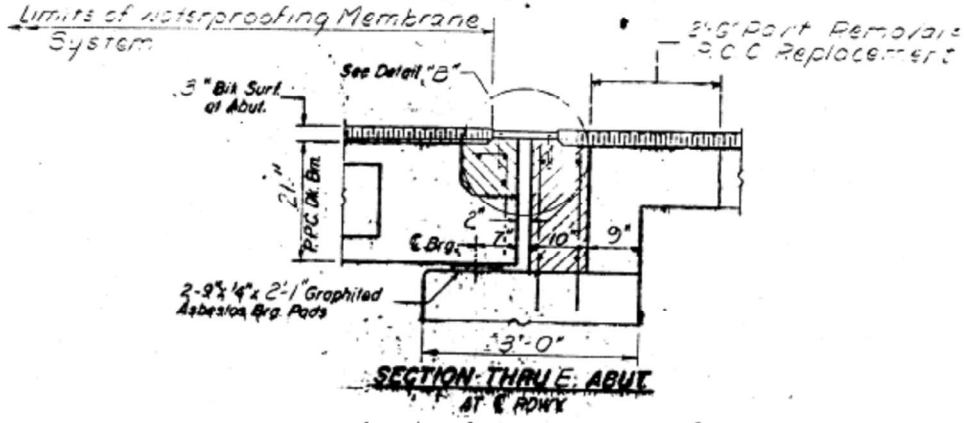
NOTE: Dimensions are at right angles.
Hatched areas to be poured after beams have been erected and joints grouted.
Ends of beams shall be aligned at the expansion joints. Any linear variation in the beam lengths shall be placed at the fixed joint. See End of Beam Detail for reinforcement.

DESIGNED	<i>D. F. School</i>	EXAMINED	<i>[Signature]</i>
CHECKED	<i>L. H. H.</i>	PASSED	
DRAWN	<i>M. S. D. J.</i>	APPROVED	
CHECKED	<i>L. H. H.</i>		

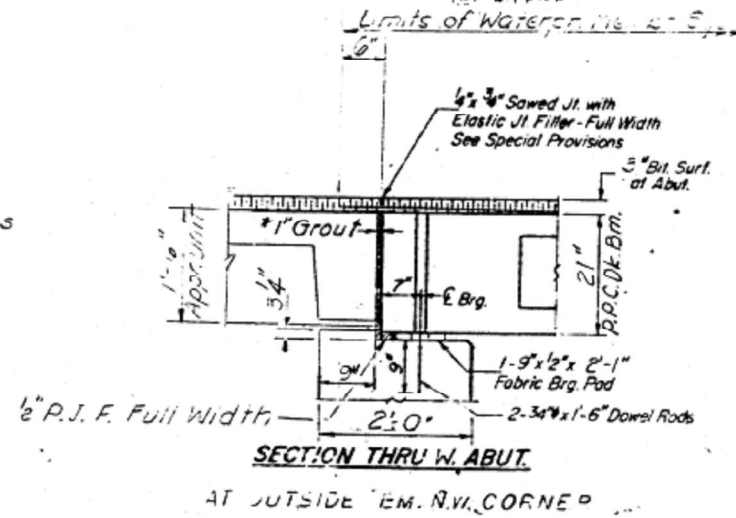
APR 19 1977
DIRECTOR OF HIGHWAYS



SECTION THRU W. ABUT.
AT C. ROWY

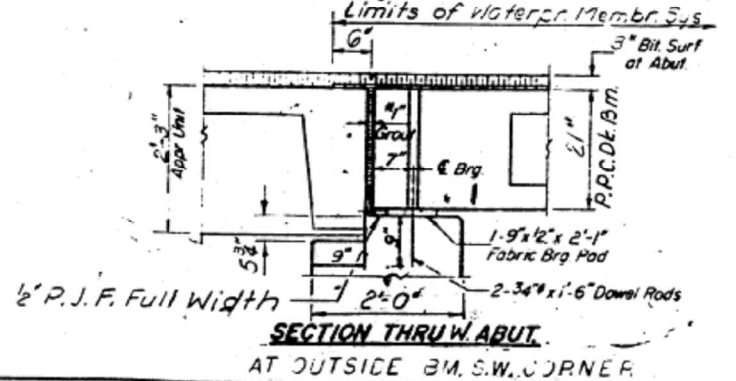


SECTION THRU E. ABUT.
AT C. ROWY

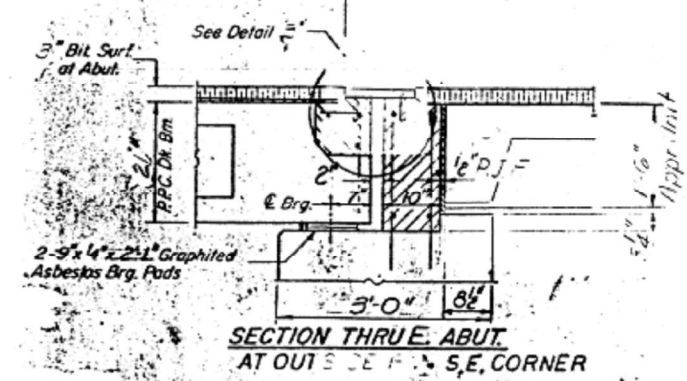


SECTION THRU W. ABUT.
AT OUTSIDE E.M. N.W. CORNER

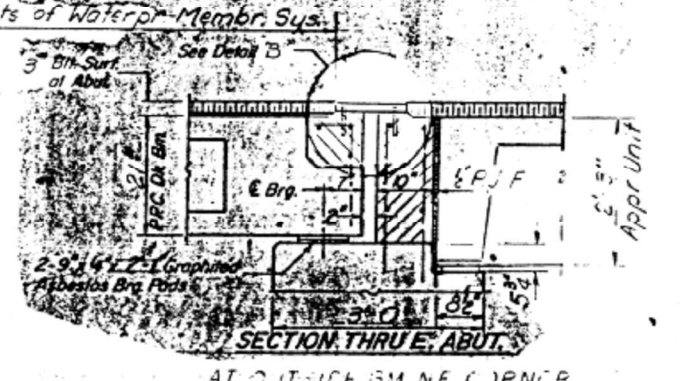
* Joint shall be packed with a very dry mix of 2:1 sand and P.C. mortar. This dimension may vary plus or minus to accommodate tolerance in beam lengths.



SECTION THRU W. ABUT.
AT OUTSIDE B.M. S.W. CORNER



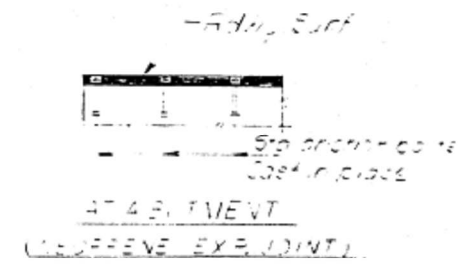
SECTION THRU E. ABUT.
AT OUTSIDE E.M. S.E. CORNER



SECTION THRU E. ABUT.
AT OUTSIDE B.M. N.E. CORNER

ALTERNATE NEOPRENE EXPANSION JOINTS (2")

TRACAP, MODEL 2114	2" x 2" x 1/2" Thick	1/2" x 2" x 1/2" Thick	1/2" x 2" x 1/2" Thick
ASBESTOS, MODEL 2114	2" x 2" x 1/2" Thick	1/2" x 2" x 1/2" Thick	1/2" x 2" x 1/2" Thick
FEL-TRAP, MODEL 2114	2" x 2" x 1/2" Thick	1/2" x 2" x 1/2" Thick	1/2" x 2" x 1/2" Thick
4400 ELASTODAY, TYPE 300	2" x 2" x 1/2" Thick	1/2" x 2" x 1/2" Thick	1/2" x 2" x 1/2" Thick



SECTION THRU DETAILS
PART 91 SEC. 14 BR
MACOUPIN COUNTY
14 1/2 3 20

MODEL: Default; FILE: 72B64; PROJECT: 72B64; DOCUMENT: 11001; OFFICE: 010001; USER: 010001; CADD: 010001; SH: 010001; ICD: 010001; DATE: 8/18/2021; TIME: 10:00:00; INFO: Information Only.

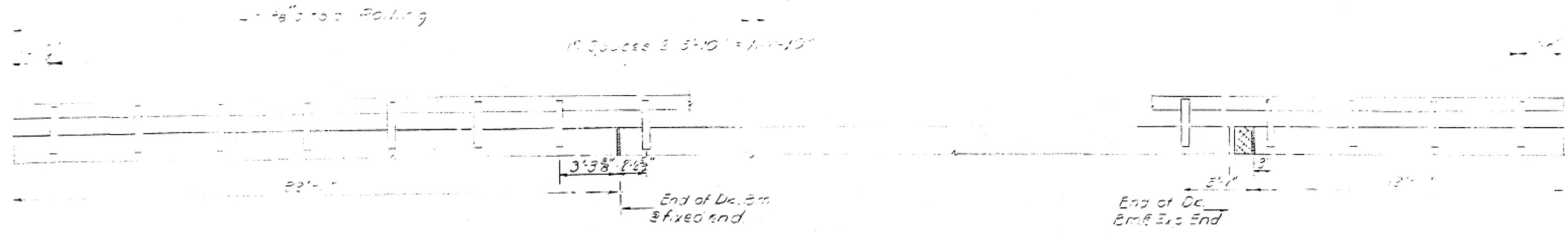
EJ-1 2-12-77

USER NAME	= cancels	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
PLOT SCALE	= 100,0000' / in.	CHECKED	-	REVISED	-
PLOT DATE	= 8/18/2021	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS - FOR INFORMATION ONLY
SCALE: SHEET OF SHEETS STA. TO STA.

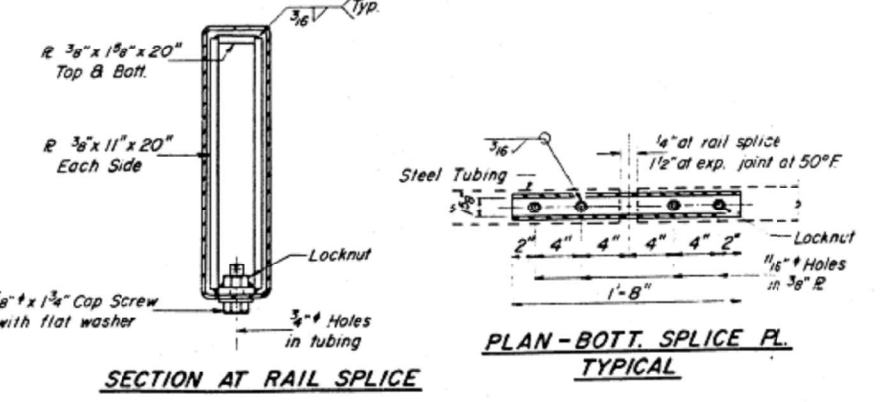
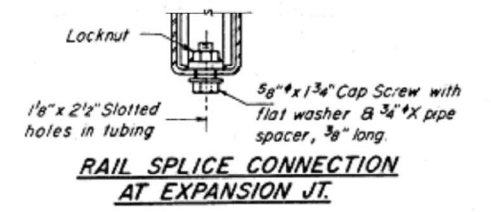
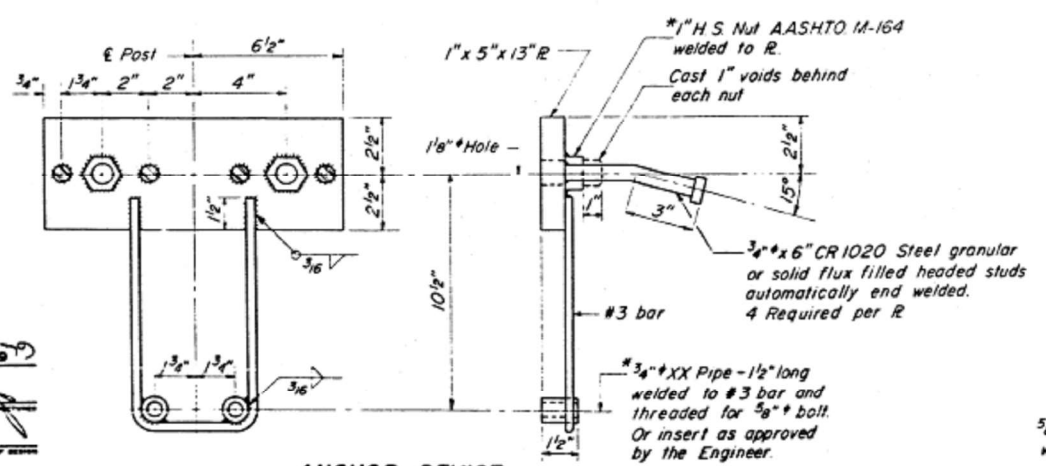
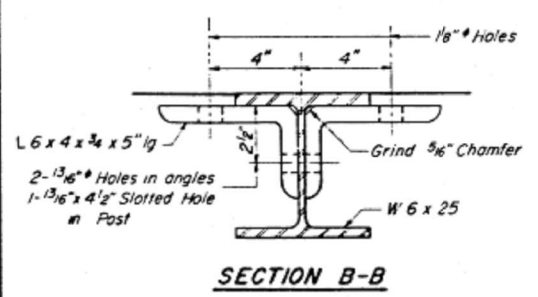
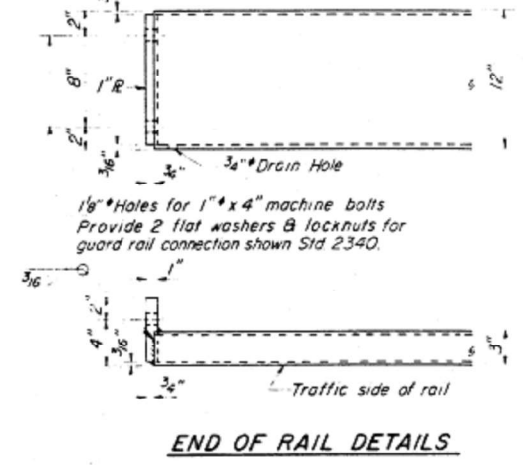
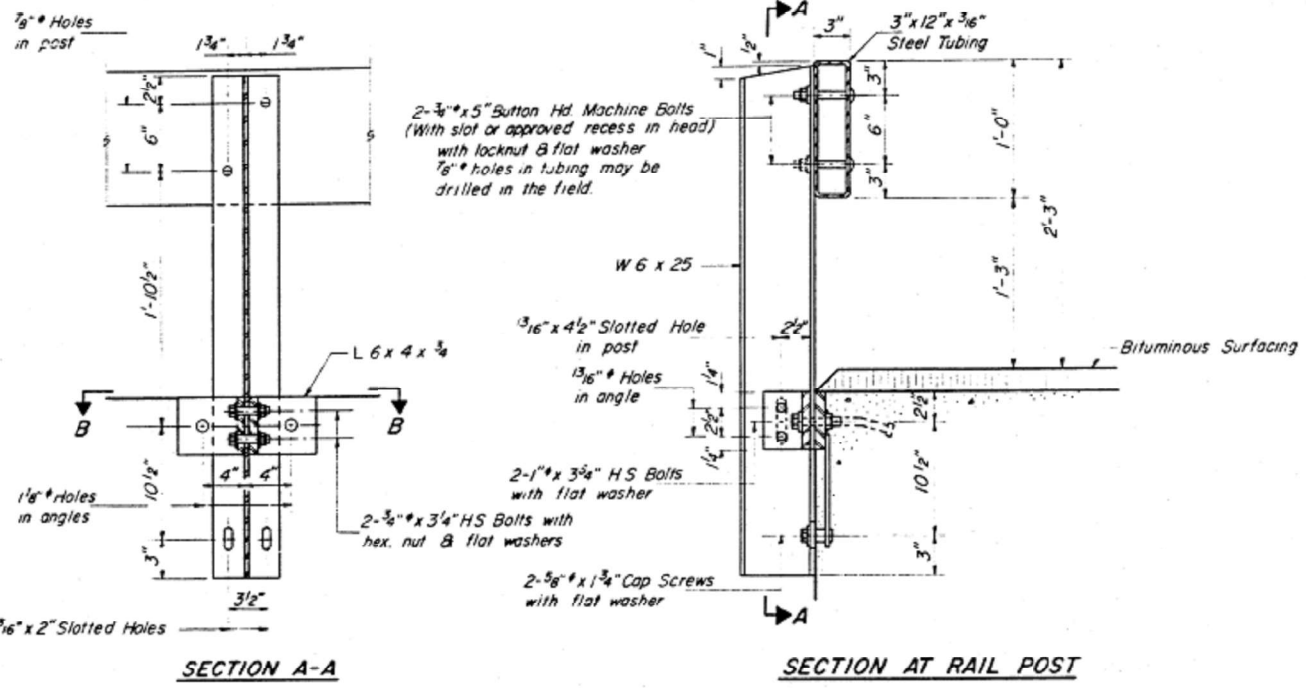
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114-116)B-2,3,4	MACOUPIN	194	69
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72B64	



ELEVATION
Showing details of locking nut,
outside face of beam similar except for
location of expansion ends.

NOTES

Hollow structural steel tubing shall conform to the requirements of ASTM designation A-500 Grade B or A-501 Structural Steel tubing.
All other steel shapes and plates shall conform to the requirements of AASHTO M-163 except posts shall conform to AASHTO M-188.
Bolts, cap screws, and nuts shall conform to the requirement of ASTM designation A-307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M-164.
All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with AASHTO M-232.
All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with AASHTO M-111 and ASTM A-385. Galvanized rail shall not be painted.
Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per linear foot for STEEL RAILING, TYPE S.
All field drilled holes shall be coated with an approved zinc rich paint before erection.
The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.08 Type B or place 1/8" fabric bearing pad between the post and concrete.
The 3/4" high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened in accordance with Article 507.04(g)(3) of the Standard Specifications. The 1" high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/8 turn.



BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S	Lin Ft.	229

TYPE S
STEEL RAILING
F.A.R.T. 211 SEC. 114.22
MACOUPIN COUNTY
STA. 629+58.00

DESIGNED Dale F. Schaub
CHECKED [Signature]
DRAWN F.M.
CHECKED [Signature]

EXAMINED [Signature]
PASSED [Signature]
APPROVED [Signature]
DIRECTOR OF HIGHWAYS

R-23 12-30-77 (6'-3" Maximum Post Spacing)

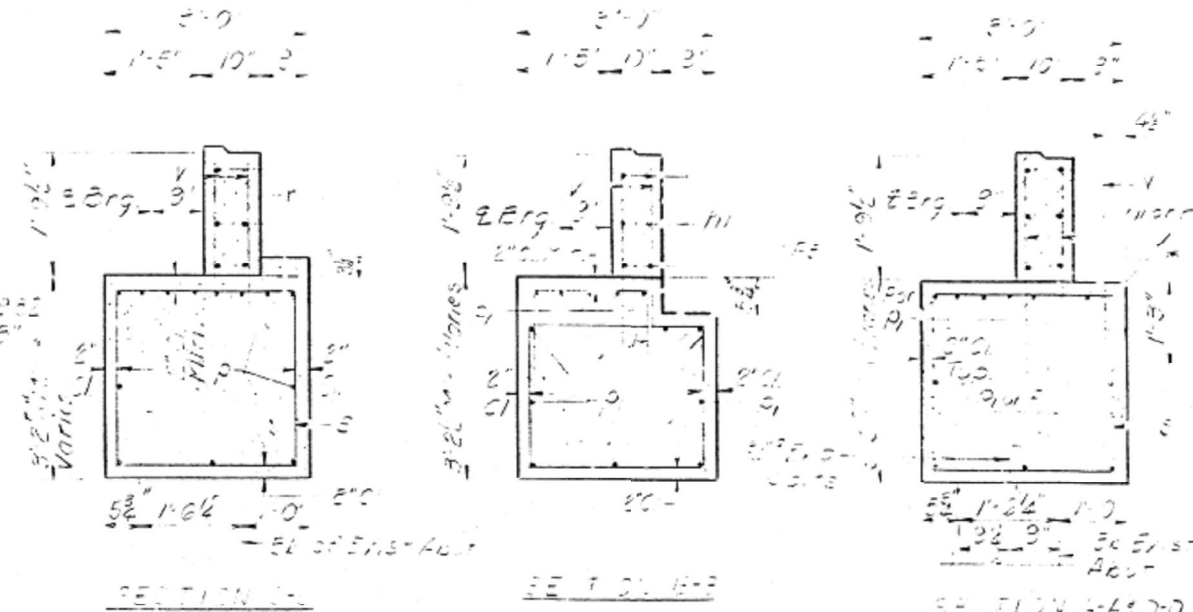
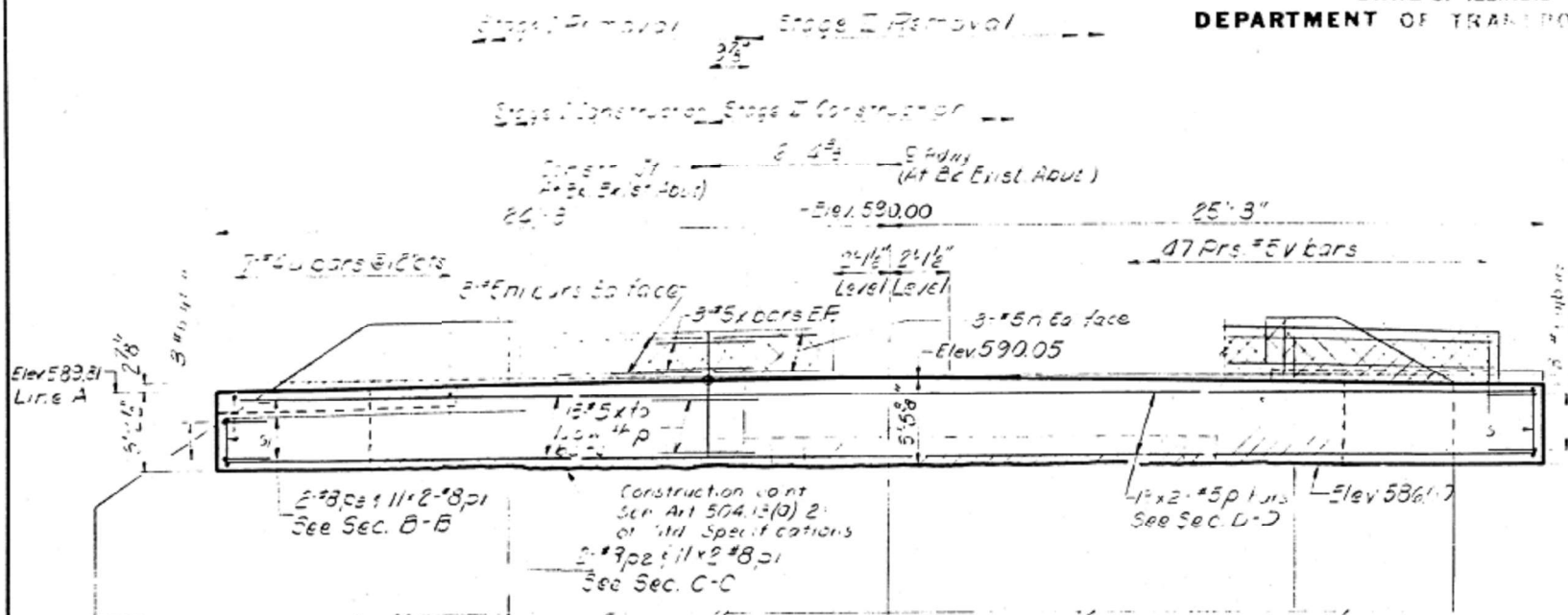
*Threaded areas shall be plugged or blocked off during casting of beam.

USER NAME	DESIGNED	REVISION
= cancels	-	-
	DRAWN	REVISION
	-	-
PLOT SCALE = 100,000' / in.	CHECKED	REVISION
	-	-
PLOT DATE = 8/18/2021	DATE	REVISION
	-	-

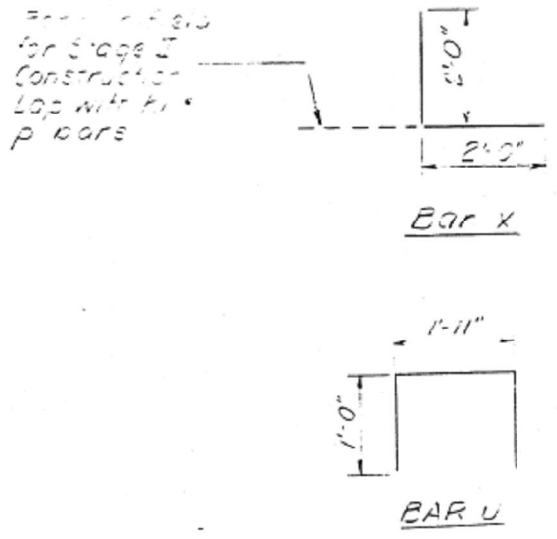
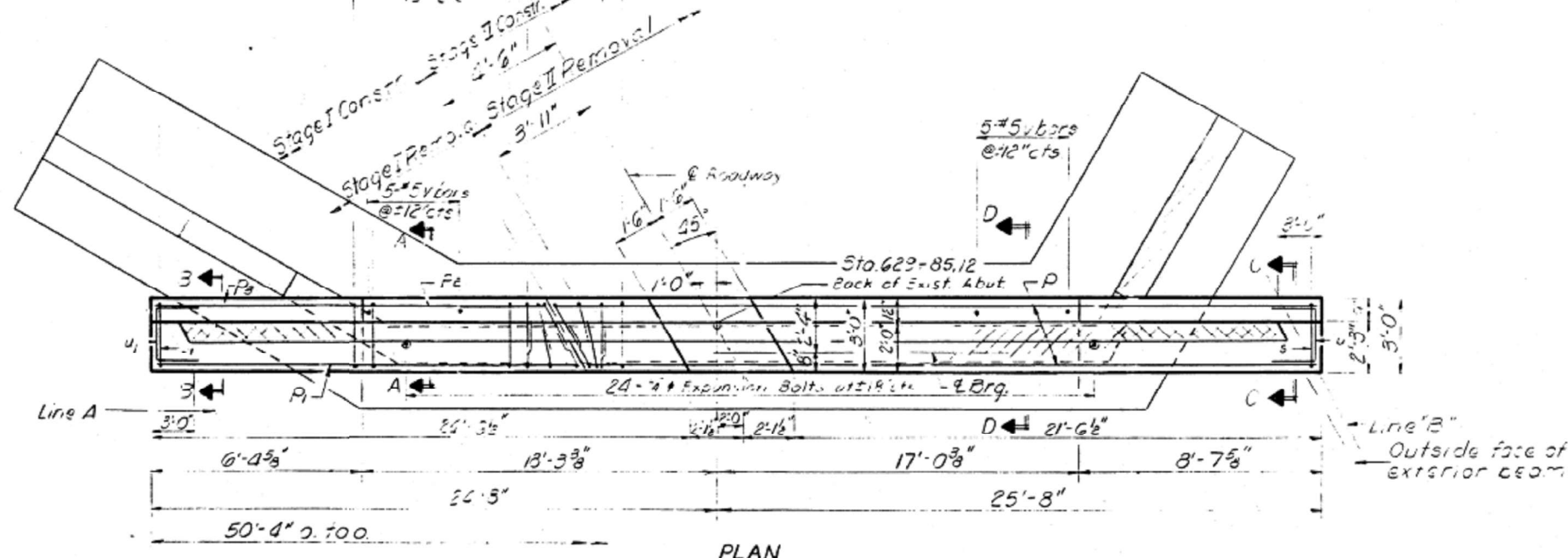
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114-116)B-2,3,4	MACOUPIN	194	70
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72B64	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
114	2,3,4	MACOUPIN	194	71
PER MISSOURI DOT NO. 7, ILLINOIS, FED. AID PROJECT				



ELEVATION
1 #5 bars @ 12" cts & 3 #4 bars @ 12" on 6" dia 12" cts
29 #4 bars @ 12" cts



REINFORCEMENT MATERIAL

Bar No.	Size	Length	Quantity
F1	#5	19'-5"	6
F2	#8	18'-6"	22
F3	#8	12'-5"	22
F4	#8	10'-0"	5
F5	#8	11'-6"	2
F6	#4	11'-5"	38
F7	#4	10'-5"	7
U1	#4	3'-11"	7
U2	#6	7'-7"	9
U3	#4	7'-8"	12
V	#5	2'-10"	1
X	#5	4'-0"	1

Class A Concrete	Cu Yds	13.7
Reinforcement Bars	Lbs	3280
Expansion Bolts (3/4")	Each	24
Concrete Removal	Cu Yds	3

Notes:
Cross hatched area to be poured after Bms. are in place.
Hatched area indicates Concrete Removal Reinforcement extending into removed area shall be cleaned and incorporated into the new construction.
Expansion Bolts shall be anchored in sound concrete All edges shall have standard #4 chamfers
Bars indicated thus 11x2 #8 etc, indicates 11 lines of bars with 2 lengths per line.
Use 4'-6" Min. lap #8 bars.
Quantities for Cross Hatched area are included with Superstructure on sheet #3

DESIGNED: *[Signature]*
CHECKED: *[Signature]*
DRAWN: Mercado
CHECKED: *[Signature]*

EXAMINED: *[Signature]*
FASSED:
APPROVED: *[Signature]*
DIRECTOR OF HIGHWAYS

EAST ABUTMENT
F.A.H. 91 SEC. 145R
MACOUPIN COUNTY
STA. 629+58.00

A-3 5-15-77, Stew L.F., F. 44

USER NAME = cancels	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS - FOR INFORMATION ONLY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114-116)B-2,3,4	MACOUPIN	194	71
CONTRACT NO. 72B64				
ILLINOIS FED. AID PROJECT				

**INDEX TO SHEETS
SECTION-114**

SHEET NO. 1 COVER SHEET

2 STANDARDS NO 1345, 1359
 3 " " " " 1355
 4 DETAIL INTERSECTION WITH RT 111
 PLAN & PROFILE STA 600+00-STA 720+00
 5 " " " " STA 720+00-STA 780+00
 6 " " " " STA 780+00-STA 840+00
 7 " " " " STA 840+00-STA 852+50
 8 " " " " STA 840+00-STA 852+50

INCLUSIVE CROSS SECTIONS

36 STANDARD CULV DESIGN 828-1, 828-3, 828-4, 828-5
 37 " " " " 828-6
 37 SPECIAL " " STA 600+00, 607+23, 617+35
 38 " " " " STA 622-72, 623+20, 625+00, 644+20
 39 " " " " STA 647+51, 649+98, 651+86
 40 " " " " STA 657+5, 622+20, 668+34, 675+93
 41 " " " " STA 682+30, 771+10, 803+31, 737+51, 733+10
 42 " " " " STA 731+37, 734+48, 802+33, 807+30
 43 " " " " STA 808+95, 809+30, 815+60, 829+60
 44 " " " " STA 839+10, 843+30, 846+40, 846+00
 44 " " " " R1 607+50, L1 607+60, R1 L1 634+80

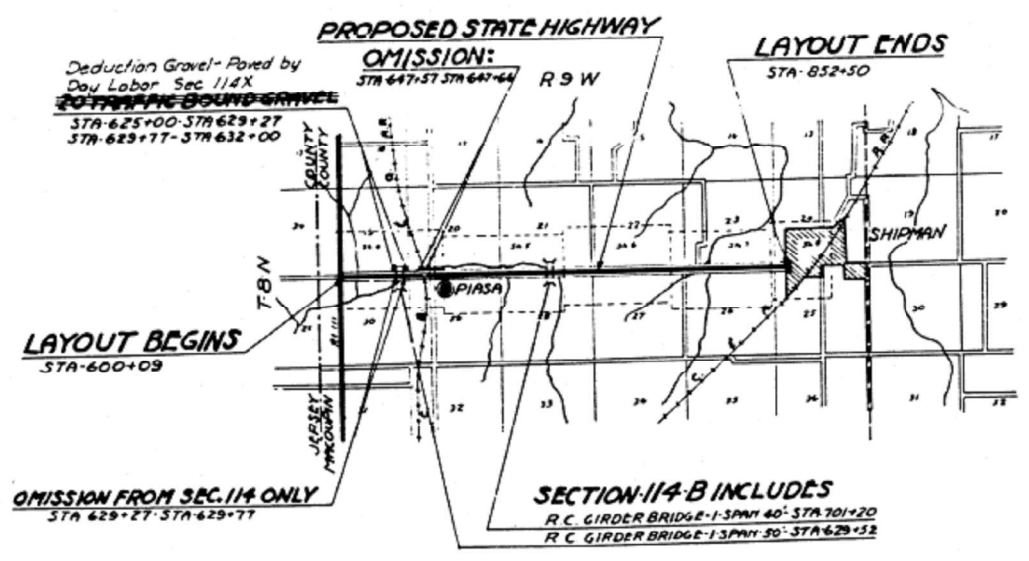
44 STEPS AT FIRE CHURCH STA 646+30
 45 STANDARDS NO 1063-1203
 46 " " " " 114E-1203

SECTION-114-B

SHEET NO. 1 COVER SHEET

4 PLAN & PROFILE
 5 " " " " " " " " " "
 47 SPECIAL BRIDGE DESIGN STA 629+52 (SHEET 114-3)
 48 " " " " STA 629+52 (" 2 of 3)
 49 " " " " STA 629+52 (" 3 of 3)
 50 " " " " STA 701+20 (" 1 of 2)
 51 " " " " STA 701+20 (" 2 of 2)

ROUTE-110-SEC-114-114-B-MACOUPIN CO.
 FROM A POINT NEAR THE SW CORNER OF THE S.E. 1/4 OF THE S.W. 1/4 OF SECTION 19, T.8 N., R.9 W., OF THE 3^d P.M.
 TO A POINT NEAR THE SW CORNER OF SECTION 24, T.8 N., R.9 W., OF THE 3^d P.M.



LAYOUT
 APPROXIMATE SCALE-1 INCH=1 MILE
 NET LENGTH OF LAYOUT=25230.00 FT=4.7784 MI

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
 IN SIGN OF CONTRACT

4-20 -31
 C.M. SLAYMAKER

4-29-21
 Steve J. Hosts

4-29-21
 Charles J. Clearland

8-15

MODEL: Default
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 SHEET: 51 OF 51

USER NAME = cancels	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/18/2021	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STRUCTURE PLANS - FOR INFORMATION ONLY				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114-116)B-2,3,4	MACOUPIN	194	72
CONTRACT NO. 72B64				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

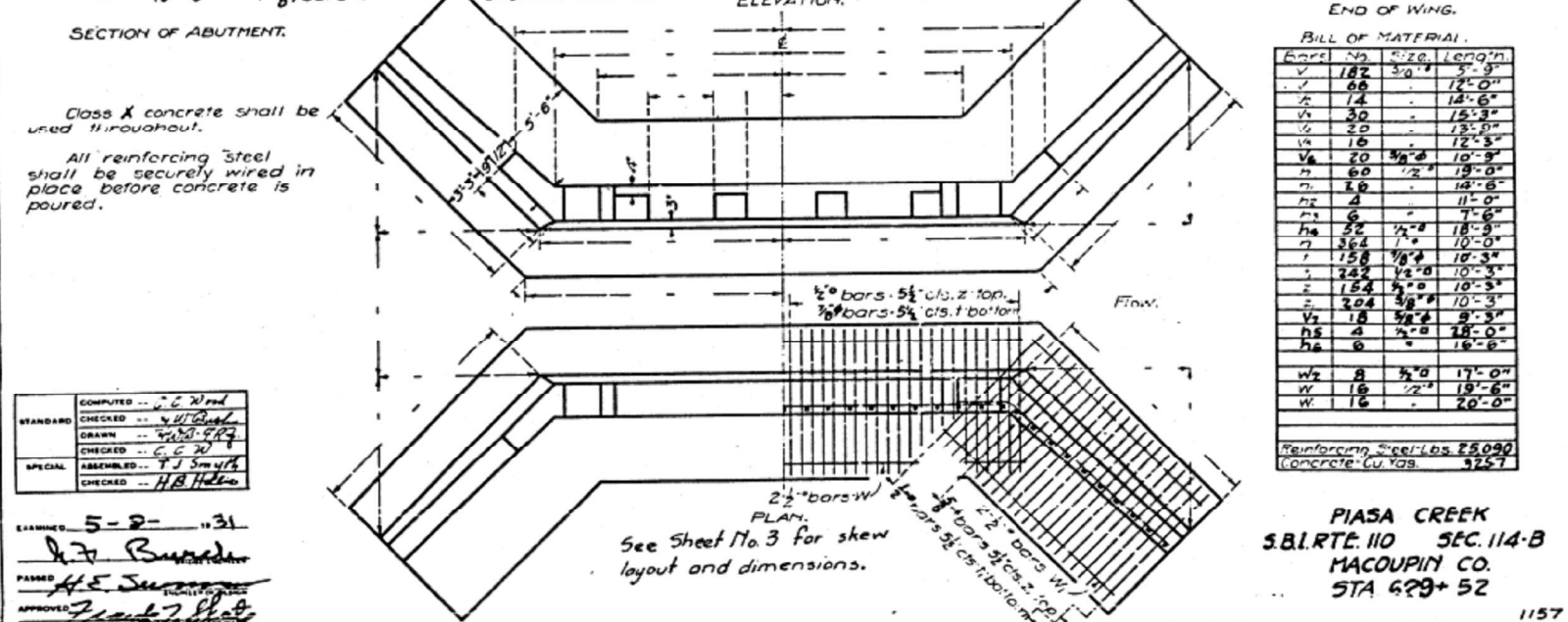
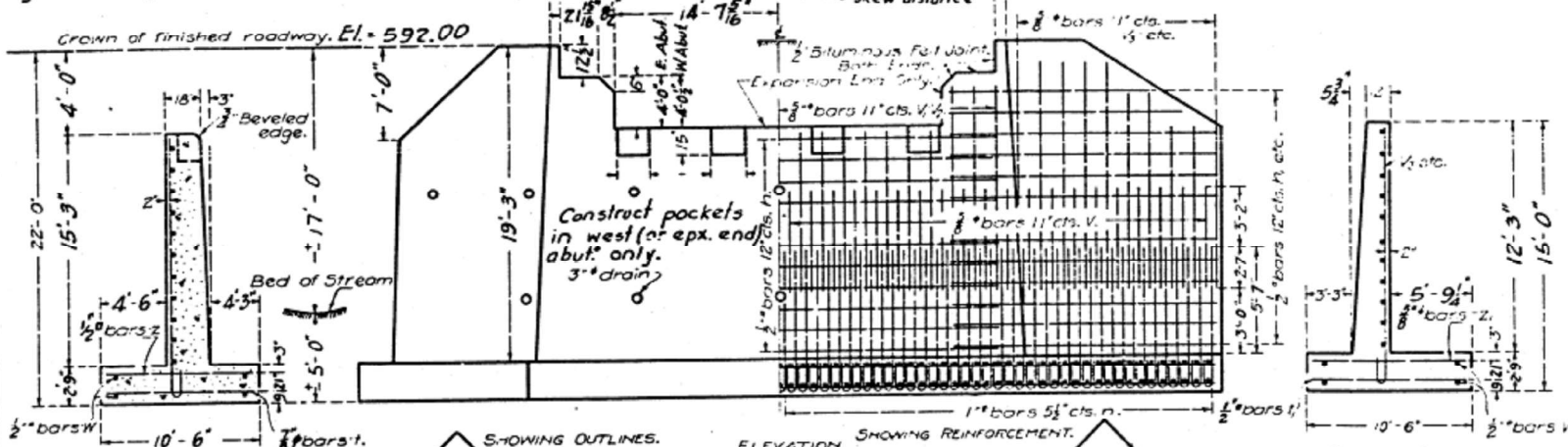
ILLINOIS	FED. AID PROJECT
----------	------------------

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS
R. C. ABUTMENTS FOR DECK GIRDER BRIDGE
HEIGHT OVER ALL 22 FEET

ROAD DIST. NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
110	114B	MACOUPIN	51	48

Sheet No. 2
35 sheets.

BM - N & W top of stump - Rt. Sta 631+10
El. 587.60
Present Steel Truss - Span 35'-9" Rdy. 13' - to be removed
by the Bridge Contractor.



Class X concrete shall be used throughout.
All reinforcing steel shall be securely wired in place before concrete is poured.

STANDARD	COMPUTED	BY
	CHECKED	DATE
	DRAWN	DATE
	CHECKED	DATE
SPECIAL	ASSEMBLED	BY
	CHECKED	DATE

EXAMINED 5-2-11 31
PASSED
APPROVED

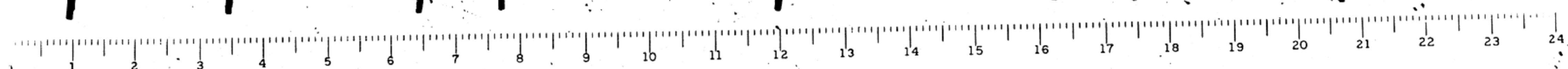
END OF WING.

BILL OF MATERIAL.

Bar	No.	Size	Length
V	182	3/4"	5'-9"
V	66	1/2"	12'-0"
V	74	1/2"	18'-6"
V	30	1/2"	15'-3"
V	20	1/2"	15'-0"
V	18	1/2"	12'-3"
V	20	3/8"	10'-9"
V	60	1/2"	18'-0"
V	18	1/2"	18'-6"
V	4	1/2"	11'-0"
V	6	1/2"	7'-6"
V	52	1/2"	18'-9"
V	364	1/8"	10'-0"
V	258	1/8"	10'-3"
V	154	1/8"	10'-3"
V	204	3/8"	10'-3"
V	18	3/8"	9'-3"
H	4	1/2"	18'-0"
H	6	1/2"	18'-6"
W	8	1/2"	17'-0"
W	18	1/2"	19'-6"
W	16	1/2"	20'-0"

Reinforcing Steel Lbs 25,090
Concrete Cu Yds 3257

PIASA CREEK
S.B. RTE. 110 SEC. 114-B
MACOUPIN CO.
STA 629+52



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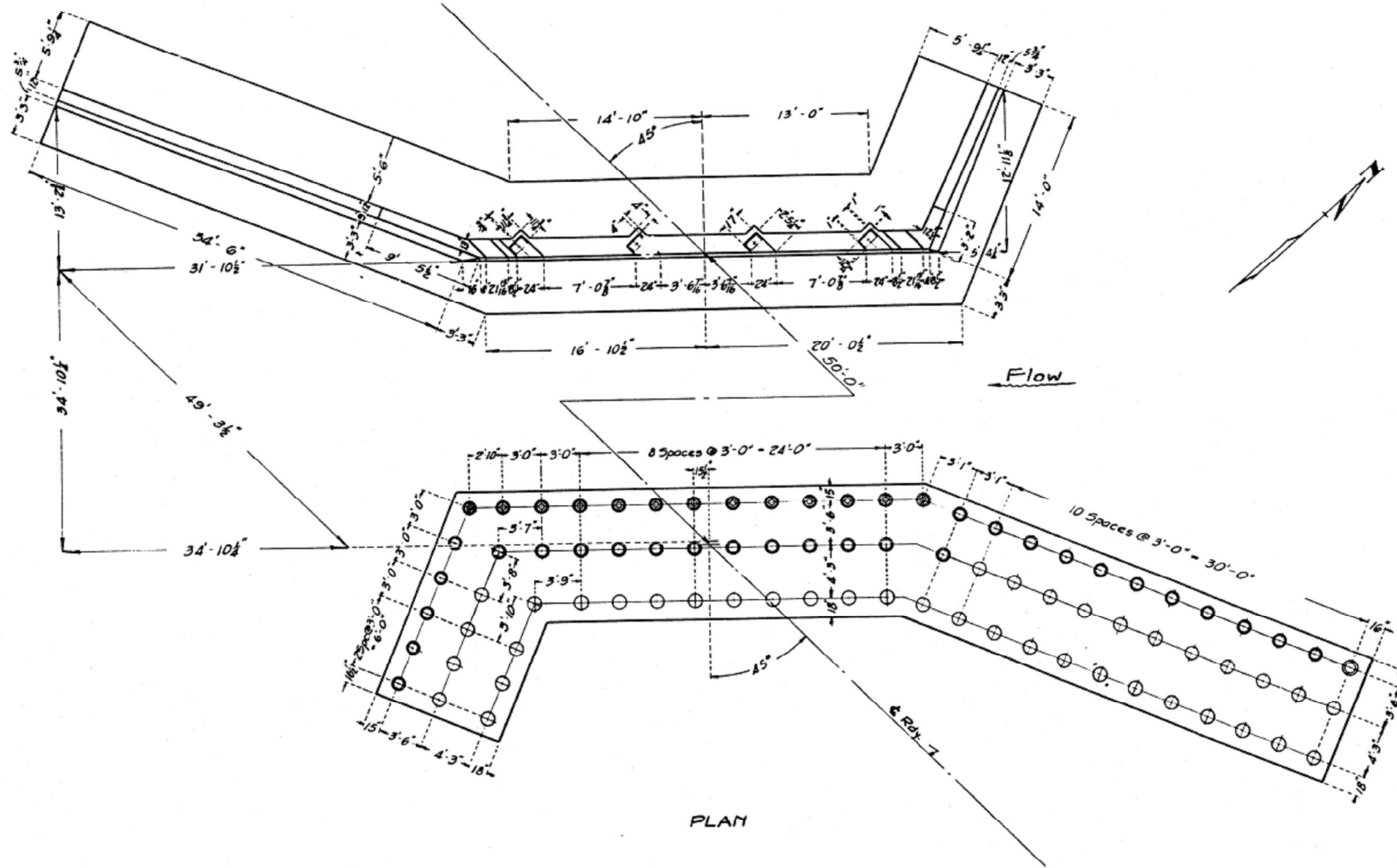
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PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS - FOR INFORMATION ONLY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114-116B-2,3,4)	MACOUPIN	194	73
CONTRACT NO. 72B64				
ILLINOIS FED. AID PROJECT				



Notes:-
 Class X Concrete to be used thruout.
 17T. Untr. Piles - 20' Long - 26 Req'd.
 15T. Untr. Piles - 20' Long - 58 Req'd.
 10T. Untr. Piles - 20' Long - 80 Req'd.
 Total est. length = 3280 Lin. Ft.

STANDARD	COMPUTED - T.J. Smyth
	CHECKED - H.B. Holte
	DRAWN - T.J. S.
	CHECKED - H.A.H.
SPECIAL	ASSEMBLED -
	CHECKED -

EXAMINED 5-8-1931
J. F. Russell
 BRIDGE ENGINEER
 PASSED
H.E. Simpson
 ENGINEER OF DESIGN
 APPROVED
Frank J. Holt
 CHIEF HIGHWAY ENGINEER

PIASSA CREEK
 SBI. RTE. 110 SEC. 114-B
 MACOUPIN CO.
 STA. 629+52

USER NAME = cancels	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS - FOR INFORMATION ONLY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114-116)B-2,3,4	MACOUPIN	194	74
CONTRACT NO. 72B64				
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA. 91	114 BR 114 BR-1	MACOUPIN	28	1

P-96-020-73

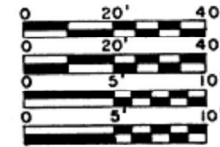
PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FOR INDEX OF SHEETS SEE SHEET NO. 1

INDEX OF SHEETS

SHEET NO.	TITLE
1	COVER SHEET
2	TYPICAL SECTIONS
3	SUMMARY OF QUANTITIES
4	PLAN AND PROFILE - STA. 629+58
5	PLAN AND PROFILE - STA. 701+20
6 -1 4	BRIDGE DETAILS - STA. 629+58
15-23	BRIDGE DETAILS - STA. 701+20
24-28	CROSS SECTIONS

SCALES { PLAN
PROFILE HOR.
PROFILE VERT.
CROSS-SECTIONS



F.A. ROUTE 91 SECTIONS 114 (BR, BR-1) PROJECT RF-91(27) MACOUPIN COUNTY

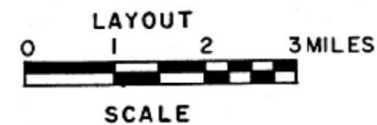
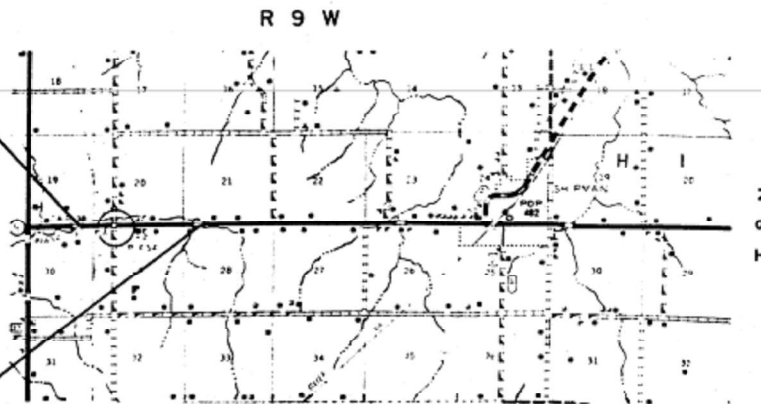
C-96-067-79

STANDARDS

1686-4	2303-4
2113-1	2304-4
2115-7	2306-4
2230-11	2309-3
2298-4	2336
2299-7	2340-1
2300-1	2359-1
2302-3	

SECTION 114 BR INCLUDES THE REMOVAL OF THE EXISTING CONCRETE DECK GIRDER SUPERSTRUCTURE (1-54'3") AND THE CONSTRUCTION OF A PRECAST DECK BEAM SUPERSTRUCTURE AT STATION 629+58

SECTION 114 BR-1 INCLUDES THE REMOVAL OF THE EXISTING CONCRETE DECK GIRDER SUPERSTRUCTURE (1-44'3") AND THE CONSTRUCTION OF A PRECAST DECK BEAM SUPERSTRUCTURE AT STATION 701+20



DESIGN DESIGNATION

2900 (79) MAJOR 1383 (B-15)

NET LENGTH OF SECTION 114 BR 455 FT. =0.086 MILES
NET LENGTH OF SECTION 114 BR-1 340 FT. =0.064 MILES
NET LENGTH OF PROJECT 795 FT. =0.15 MILES



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

SUBMITTED: April 13, 1979

EXAMINED: May 31, 1979 DISTRICT ENGINEER

PASSED: May 31, 1979 ENGINEER OF PLANS AND CONTRACTS

APPROVED: Thomas R. Bright ENGINEER OF DESIGN

DIRECTOR DIVISION OF HIGHWAYS

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED

DIVISION ADMINISTRATOR

6-100

CONTRACT NO. 33837

MACOUPIN COUNTY SECTION 114 BR & 114 BR-1 ROUTE FA 91

USER NAME = cancels	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/18/2021	DATE -	REVISED -

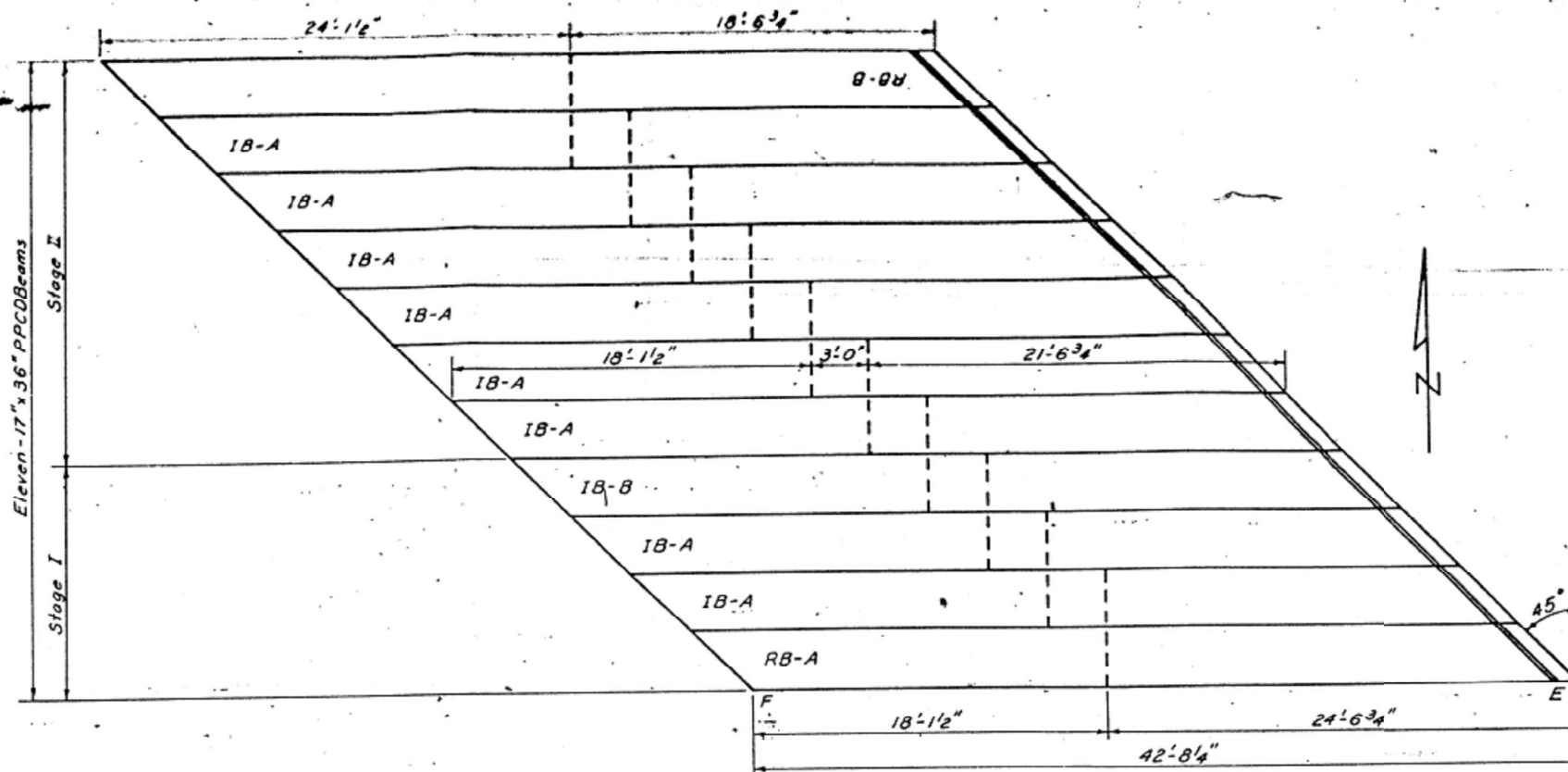
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS - FOR INFORMATION ONLY

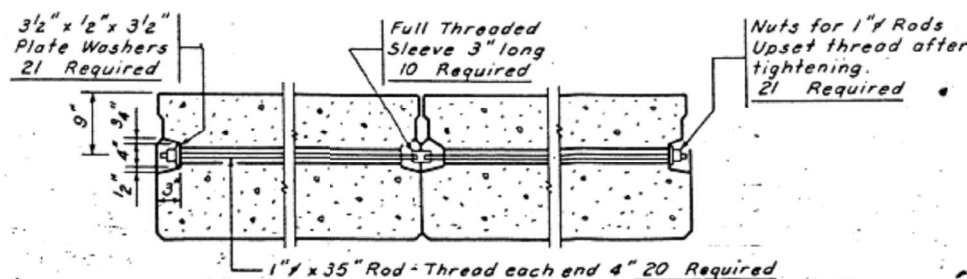
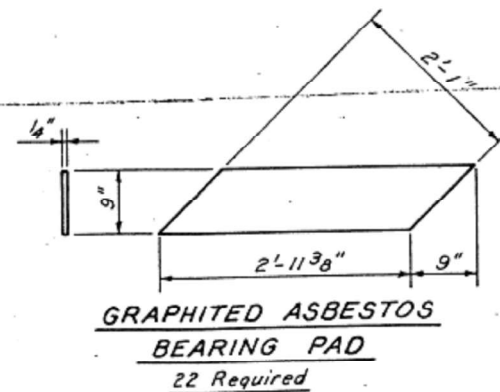
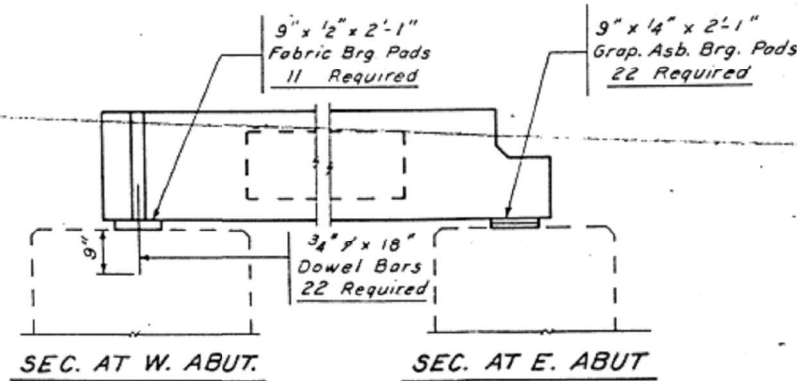
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114-116)B-2,3,4	MACOUPIN	194	75
			CONTRACT NO. 72B64	
ILLINOIS FED. AID PROJECT				

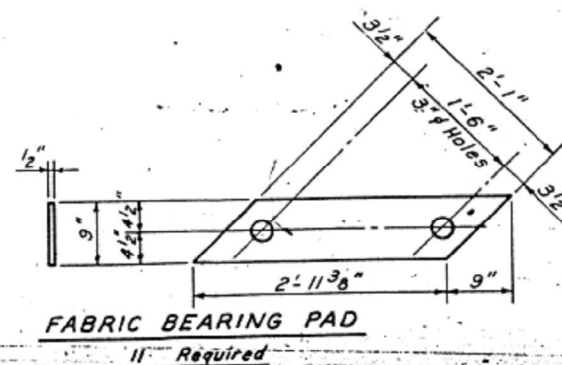
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 PLOT DATE: 8/18/2021



ERECTION PLAN



TYPICAL TRANSVERSE TIE ASSEMBLY



PRESTRESS NOTES

THIS JOB IS STATE INSPECTED.
 No Curbs.
 Each end of Beams shall be given two (2) coats of Asphalt Paint, except when encased in concrete.
 The Transverse Tie Rods, Nuts, Sleeves and Washers shall be hot dipped Galvanized in accordance with AASHTO M232 after fabrication.
 Steel for the Transverse Tie Rods shall be AASHTO M227 Grade 70 or 80.
 Dowel Bars shall conform to AASHTO M227 or M31.
 Loading HS 20-44.
 Welded Wire Mesh shall conform to AASHTO M55 and Reinforcement to AASHTO M31 or M53 Grade 60.
 All Wire Strands shall be Extra High Strength 1/2" dia loaded to 28,900 lbs. each. All Strands shall be Non-Galvanized Stress-Relieved AASHTO M203 Grade 270K.
 The top surface of the Beams shall be finished in accordance with Art. 505.06 of the Std. Spec's. except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners.
 f'c = 5,000 psi. f'ti = 4,000 psi.

FIELD BILL OF MATERIAL

Item	Each
Beam RB-A (Wt. 21,107#)	1
Beam RB-B (Wt. 21,107#)	1
Beam IB-A (Wt. 21,707#)	8
Beam IB-B (Wt. 21,707#)	1
Rods 1" dia x 35"	20
Sleeves 3" long full threaded	10
Plate Washers 3/2" x 1/2" x 3/2"	21
Nuts 1" Heavy	21
Dowel Bars 3/4" dia x 18"	22
Fabric Brg. Pads 9" x 1/2" x 2'-1"	11
Grap. Asb. Brg. Pads 9" x 1/4" x 2'-1"	22
Flared Coil Loops 3/4" x 6"	55
Coil Rods 3/4" dia x 6"	55

SHOP No. 103-80 1,409 S.F. PRECAST PRESTRESSED CONCRETE OR BMS. (17')

STATE CONTRACT NO. 33837 STATE JOB NO. C-96-067-79

DATE No. To

2-12-80 3 EGY.

3-24-80 10 EGY.

STR No. 059-0002 File

F.A. RT.91 OVER Set

PIASA CREEK 11-21-79 (R)

SEC. 114 BR-1

MACOUPIN COUNTY

STA. 701+20.00

EGYPTIAN CONCRETE CO.
 POST OFFICE BOX 498
 SALEM, ILLINOIS 62881

SHEET 1 OF 6

ERECTION DETAILS

USER NAME = cancels	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / In.	CHECKED -	REVISED -
PLOT DATE = 8/18/2021	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

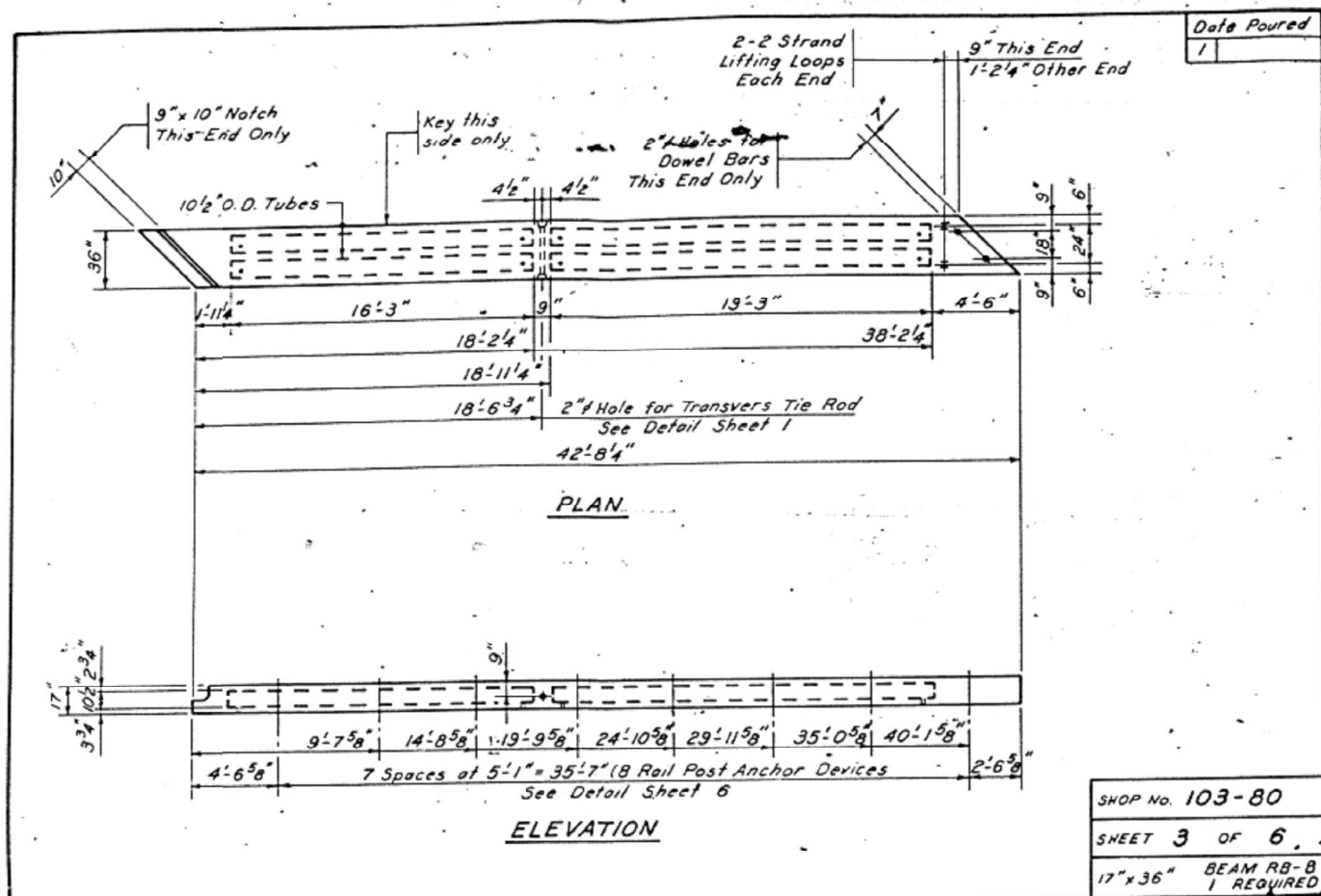
STRUCTURE PLANS - FOR INFORMATION ONLY

SCALE: SHEET OF SHEETS STA. TO STA.

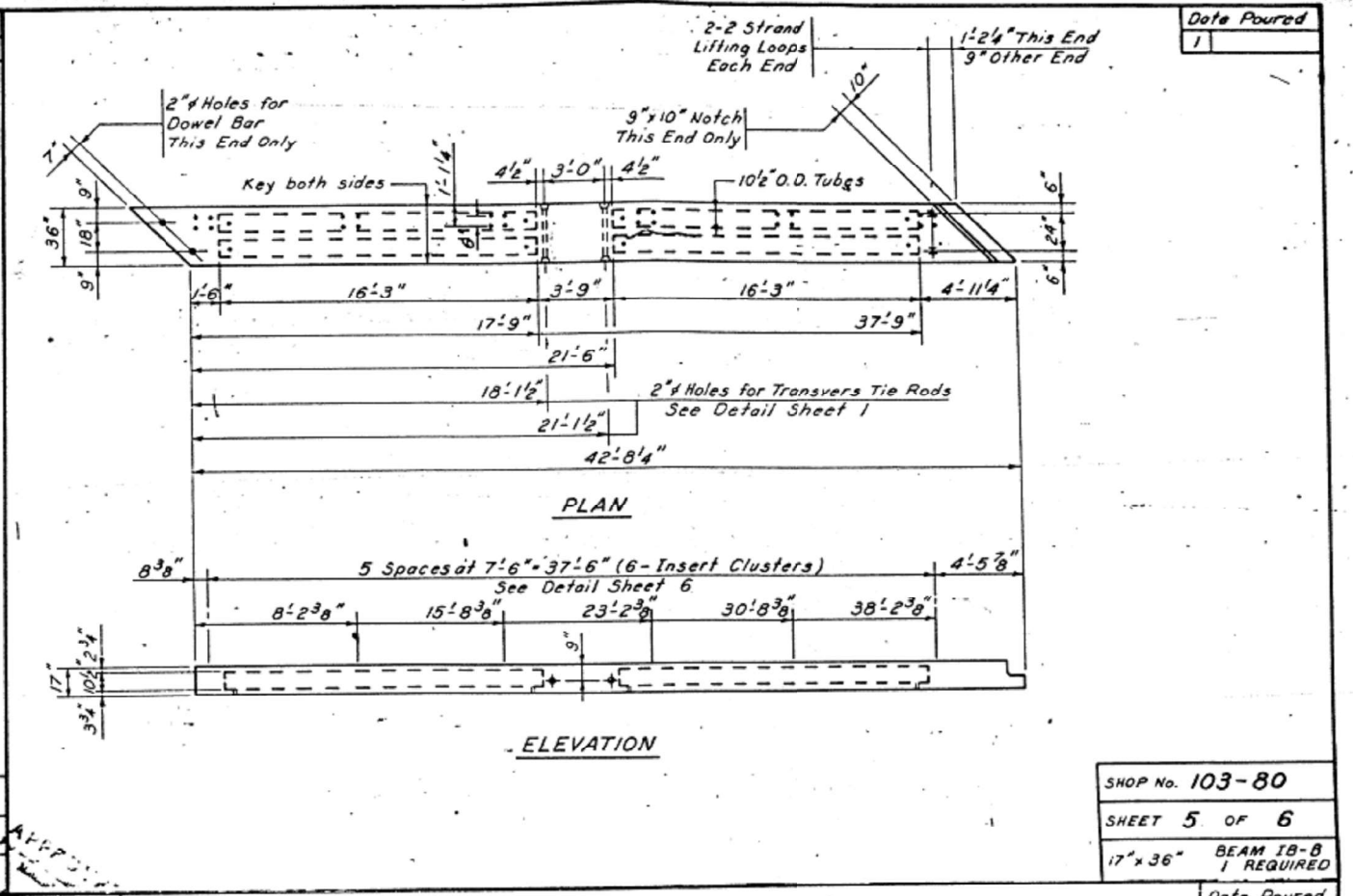
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114-116)B-2,3,4	MACOUPIN	194	76
			CONTRACT NO. 72B64	
ILLINOIS FED. AID PROJECT				

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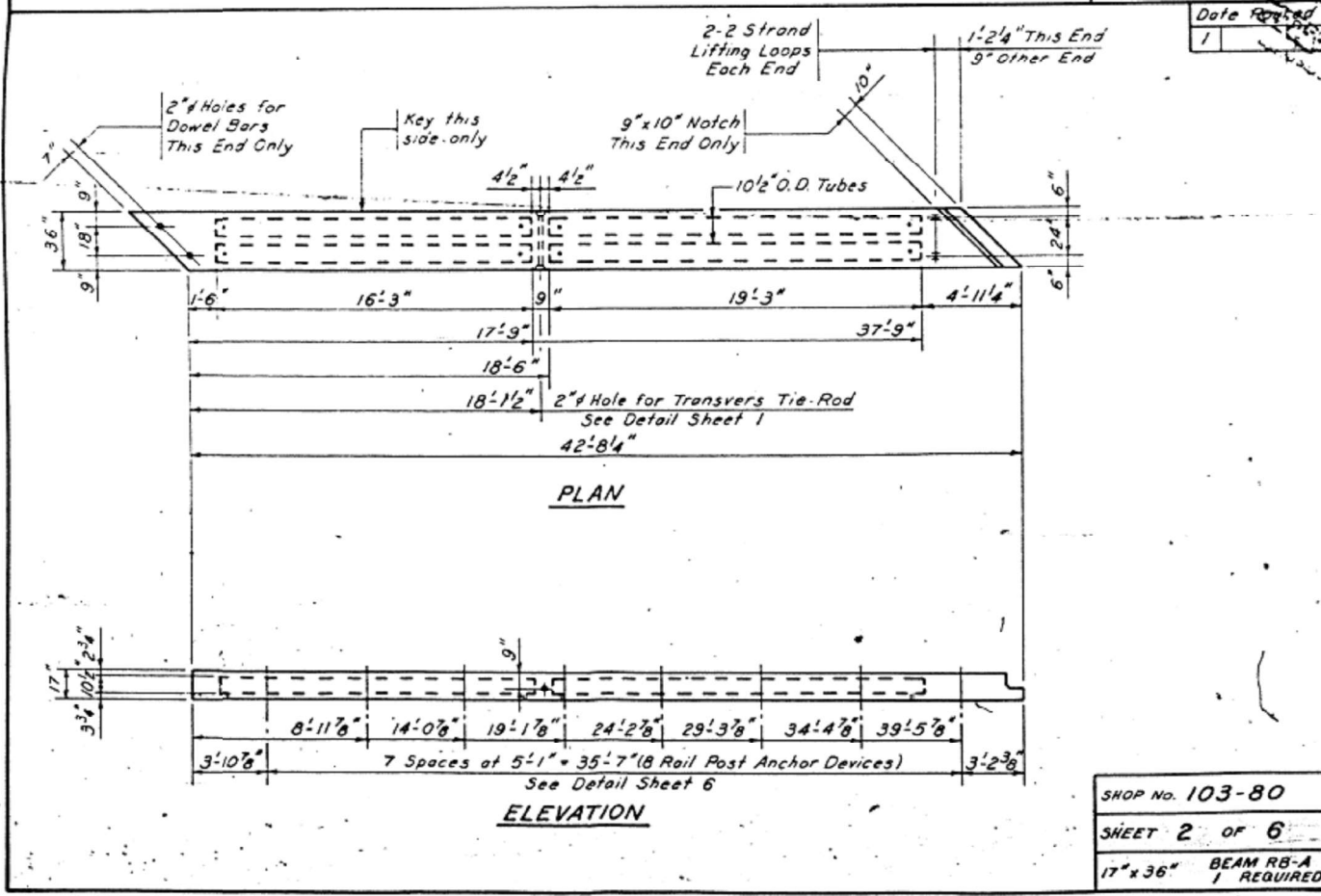
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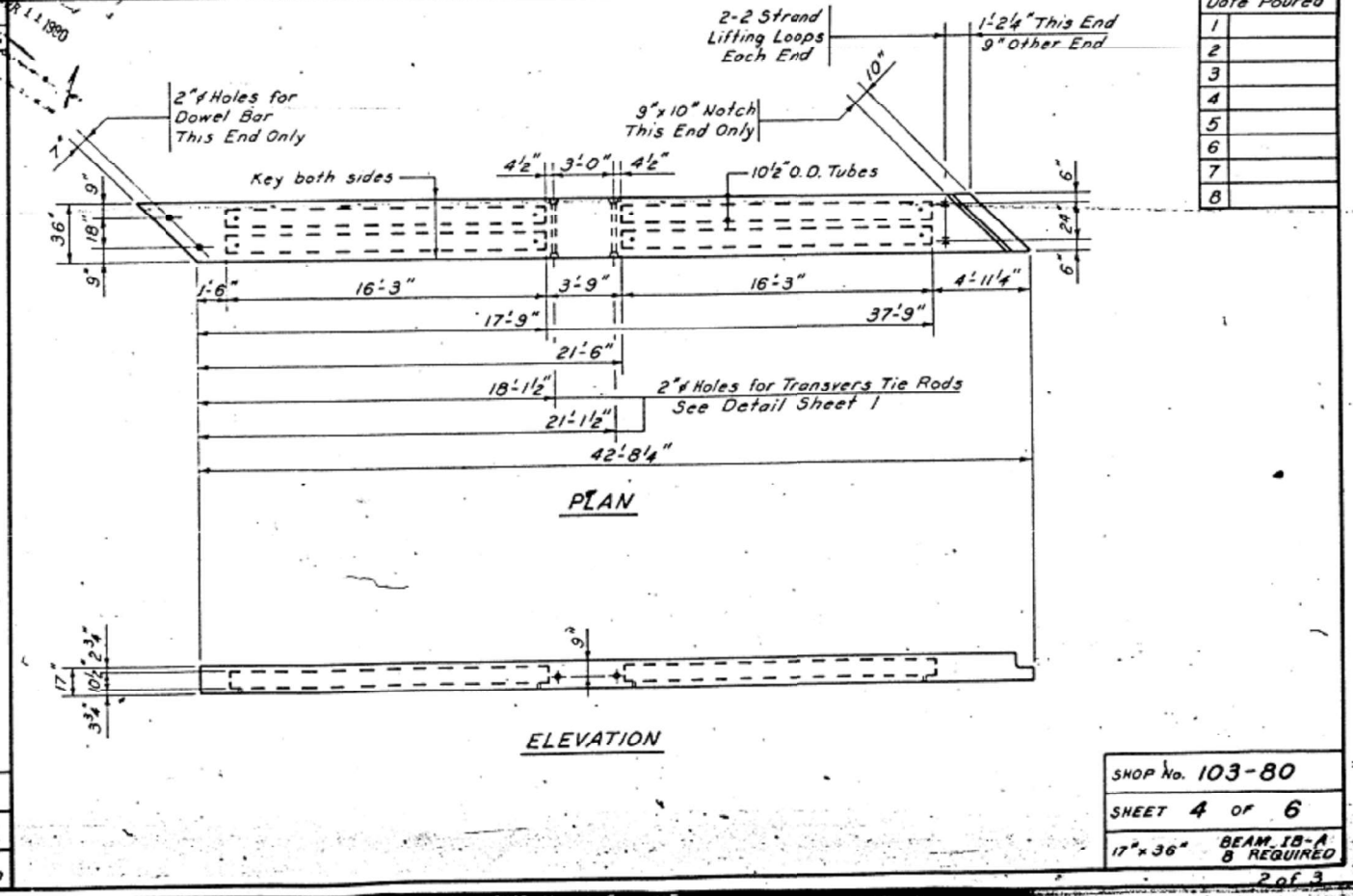
SHOP No. 103-80
 SHEET 3 OF 6
 17"x36" BEAM RB-B 1 REQUIRED



SHOP No. 103-80
 SHEET 5 OF 6
 17"x36" BEAM IB-B 1 REQUIRED



SHOP No. 103-80
 SHEET 2 OF 6
 17"x36" BEAM RB-A 1 REQUIRED



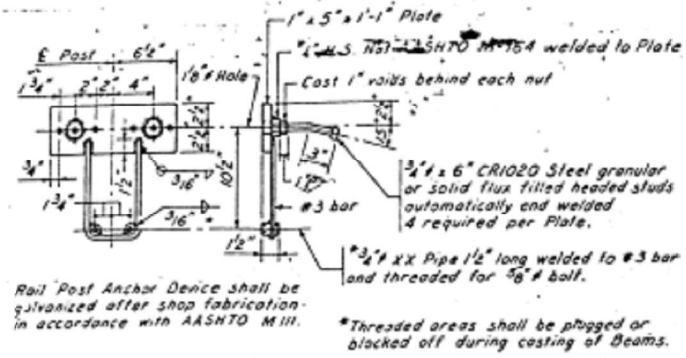
SHOP No. 103-80
 SHEET 4 OF 6
 17"x36" BEAM IB-A 8 REQUIRED

USER NAME = cancels	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / 1in.	CHECKED -	REVISED -
PLOT DATE = 8/18/2021	DATE -	REVISED -

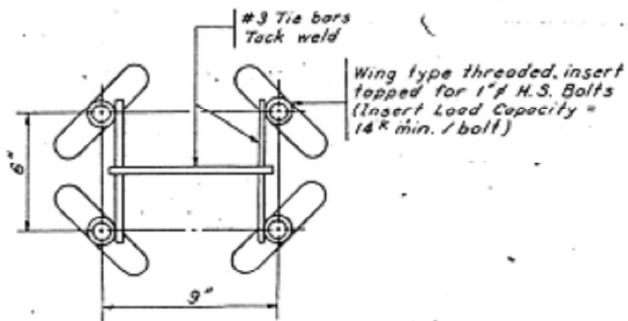
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS - FOR INFORMATION ONLY
 SCALE: SHEET OF SHEETS STA. TO STA.

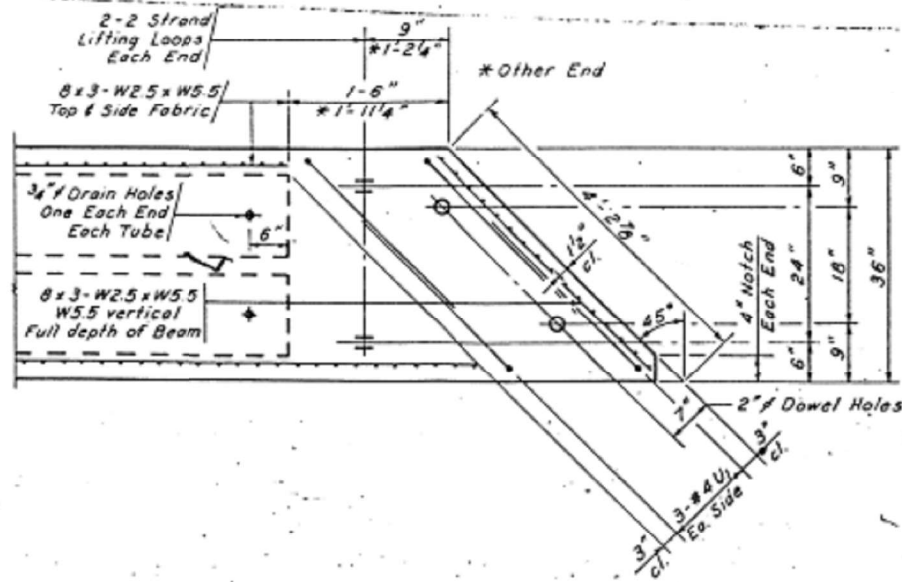
F.A.P. RTE. 325	SECTION (114-116)B-2,3,4	COUNTY MACOUPIN	TOTAL SHEETS 194	SHEET NO. 77
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72B64	



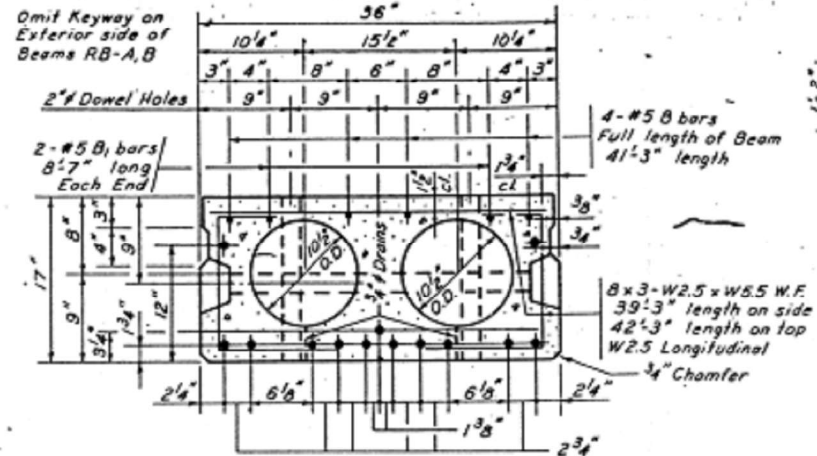
RAIL POST ANCHOR DEVICE
15' Required



INSERT CLUSTER DETAIL
6 Required

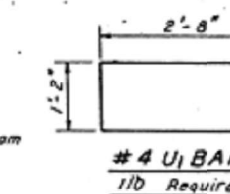


FIXED END OF BEAM DETAIL

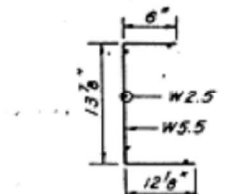


TYPICAL SECTION THRU BEAM

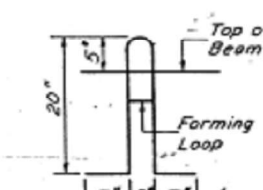
13 Strands 1/2" 270K 10 Up 1 3/4" 1 Up 3/4" 2 Up 12"



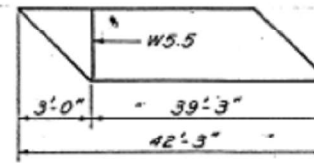
#4 U BAR
110 Required



SIDE FABRIC
8x3-W25xW5.5
32"x39.3"
22 Required



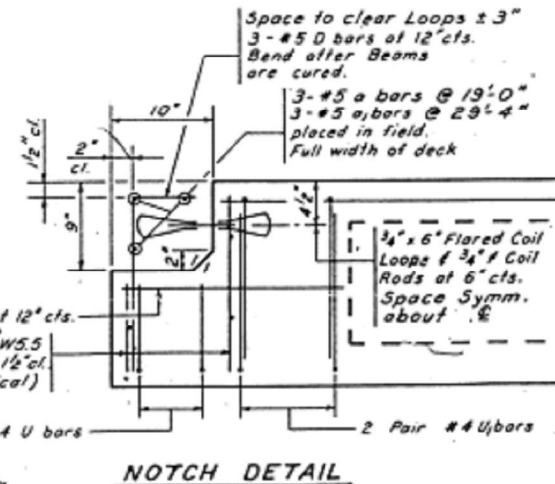
LIFTING LOOP
Use 2-1/2" Strands
44 Required



TOP FABRIC
8x3-W25xW5.5
32"x42.3"
11 Required

SHOP BILL OF MATERIAL

Bar	Size	Length	Shape	One Beam	Job Total	Remarks
B	#5	41.3"	—	4	44	
B1	5	8.7"	—	4	44	
B2	4	1.8"	—	3	33	
D	5	1.8"	┌	3	33	
U	4	4.9"	┌	2	22	
U1	4	6.6"	┌	10	110	
Reinforcement Bars				Lbs.	266	2,926
Wire Fabric	Top	32"	42.3"	1	11	112.5 L.F.
Wire Fabric	End	14"	3.11"	2	22	9.15 L.F.
Wire Fabric	Side	32"	39.3"	2	22	209.35 L.F.
Wire Fabric	E.End	5"	3.11"	1	11	1.65 L.F.
8x3-W25xW5.5 W.F.				Lbs.	300	3,300
RB	Concrete			5.0	10.0	55.9 C.Y.
IB	Concrete			5.1	45.9	55.9 C.Y.
Lifting Loops						
RB				4	44	
RB	Tubes 10.2" O.D. x 19.3"			2	4	727 L.F.
IB	Tubes 10.2" O.D. x 16.3"			4	36	
Tubes 2" I.D. x 1.5"						
RB				2	22	82 L.F.
RB	Tubes 2" I.D. x 2.6"			1	2	
IB				2	18	
IB-B	Insert Clusters			6	6	
	Void Drains 3/4" I.D. x 3 3/4"			8	88	28 L.F.
	Flared Coil Loops 3/4" x 6"			5	55	
RB	Rail Post Anchor Devices			8	16	



NOTCH DETAIL

APPROVED
APR 11 1980
CERN

SHOP No. 103-80
SHEET 6 OF 6
17" x 36" SHOP DETAILS

USER NAME = cancels	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/18/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS - FOR INFORMATION ONLY

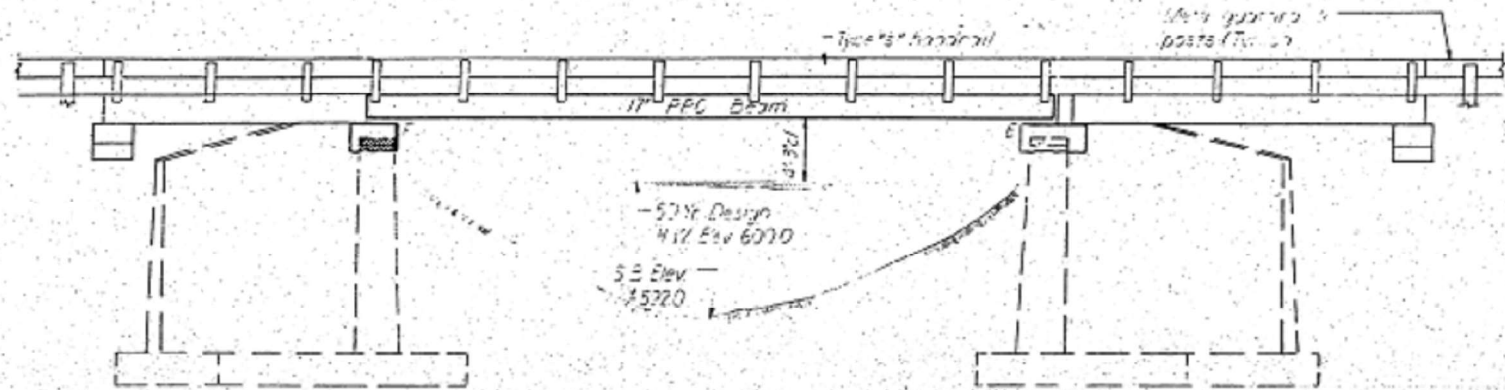
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114-116)B-2,3,4	MACOUPIN	194	78
		CONTRACT NO. 72B64		
		ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	SHEET NO.	TOTAL SHEETS
114BR-1	2.3.4	1	2

Structural steel shall be A36 or A572 Gr 50. All steel shall be galvanized.
Reinforcement shall be 60,000 psi yield strength steel.
Concrete shall be 4,000 psi compressive strength.
Expansion joints shall be used as to maintain traffic during reconstruction.



ELEVATION

GENERAL NOTES

It shall be the responsibility of the contractor to verify dimensions and conditions existing on the site prior to construction and proper use of materials.
The top surface of the concrete shall be finished with a steel trowel finish.
Expansion joints shall consist of half width expansion joints and 3/4\"/>

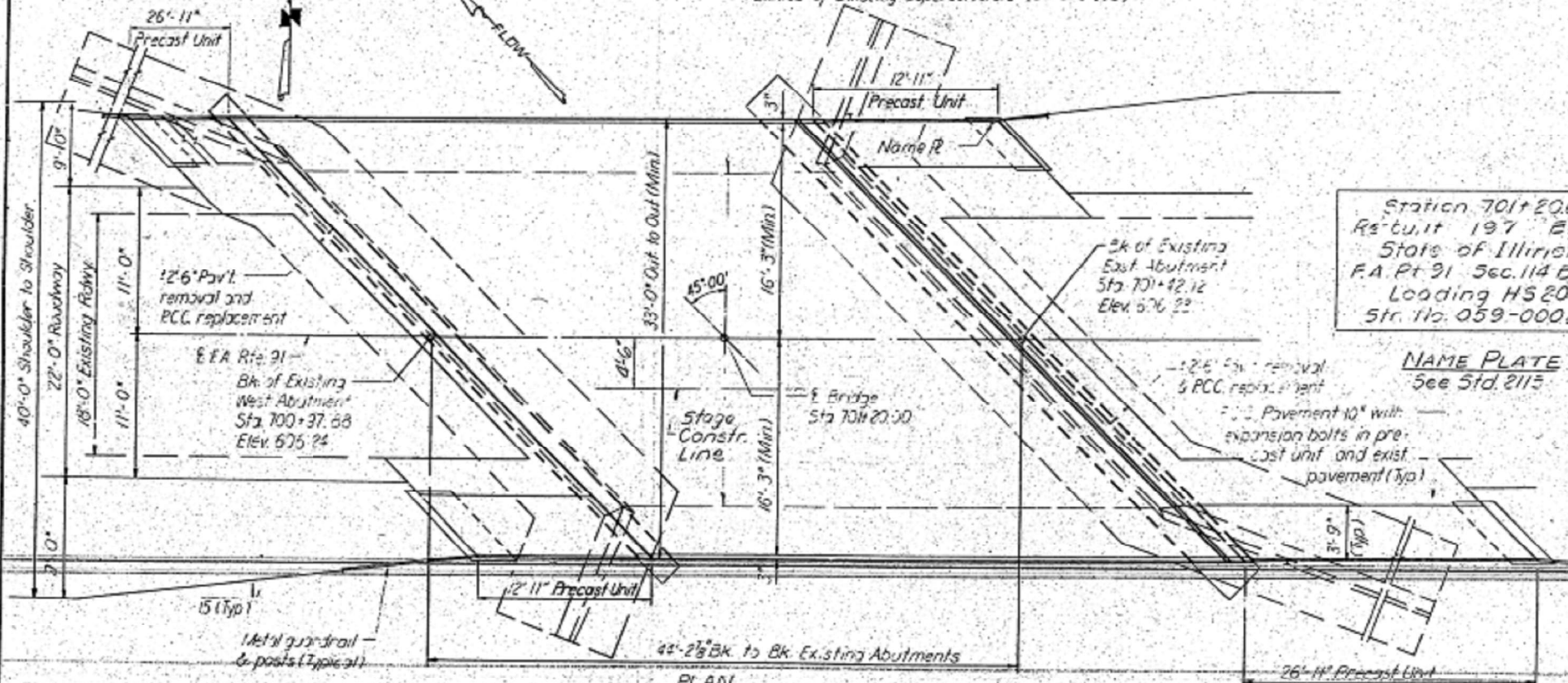
Reinforcement shall conform to the requirements of AASHTO M31 or M58, Grade 60.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Bit Conc. Sur. Cse. Class 2	Ton	15		15
Concrete Removal	Cu Yd		11	11
Expansion bolts (3/4\"/>				

Station 701+20.00
Rebuilt 1972 by
State of Illinois
F.A. Pt 91 Sec. 114 BR-1
Loading HS 20
Str. No. 059-0002

NAME PLATE
See Std. 2115



PLAN

WATERWAY INFORMATION

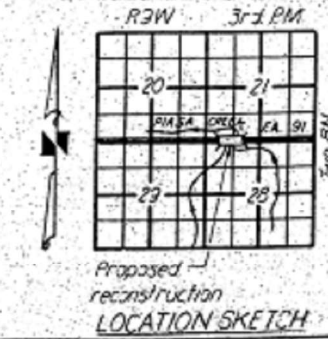
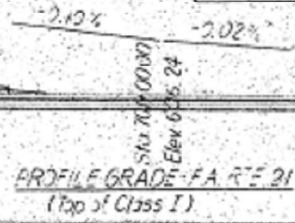
Drainage Area	2.26 Sq. Mi.
Design Discharge	1351 c.f.s.
Existing Opening	170 Sq. Ft.
Required Opening	170 Sq. Ft.
Proposed Opening	170 Sq. Ft.
Created Head for Design Flood	1.2'
100 Year Discharge	1556 c.f.s.
Created Head for 100 Year Flood	1.5'
100 Year R.W. Elevation	600.3
50 Year Design H.W. Elevation	600.0

DESIGN STRESSES

FIELD UNITS	$f_c = 5,000$ p.s.i.
$f_c = 3,500$ p.s.i.	$f_{cs} = 4,000$ p.s.i.
$f_y = 60,000$ p.s.i. (Reinforcement)	$f'_s = 270,000$ p.s.i. (2# Strands)
$f_s = 20,000$ p.s.i. (Structural)	$f'_s = 183,000$ p.s.i. (2# Strands)

LOADING: HS 20-44

Design Specifications: 1977 AASHTO and 1973
Interim Specifications as applicable
Allow 25 #/sq. Ft. for future wearing surface



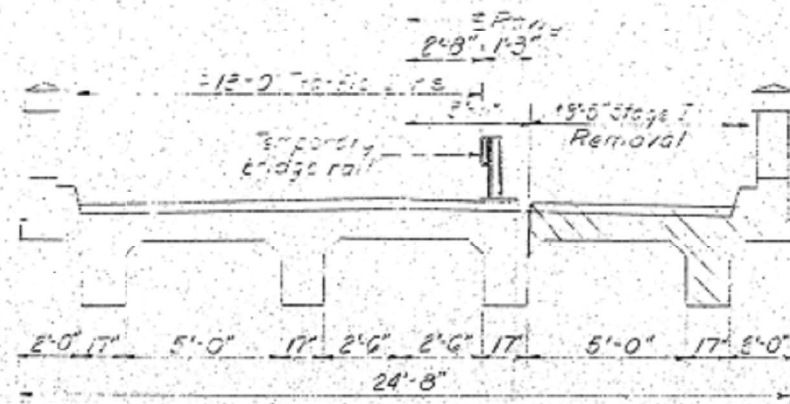
GENERAL PLAN AND ELEVATION
FA ROUTE 91 OVER PIASA CREEK
FA ROUTE 91 SECTION 114BR-1
MACOUPIN COUNTY
STATION 701+20.00

DESIGNED: Frank M. Pivars	APPROVED: [Signature]
CHECKED: [Signature]	PASSED: [Signature]
DRAWN: Mercado	APPROVED: [Signature]
CHECKED: [Signature]	

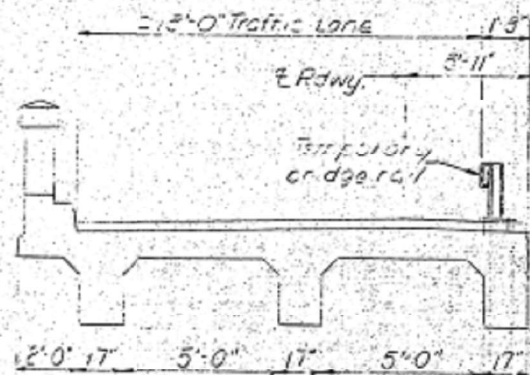
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

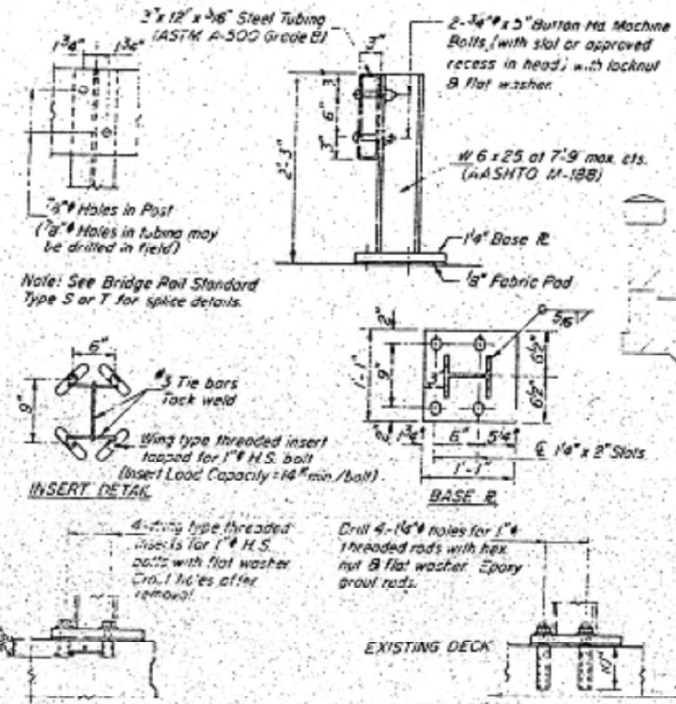
DATE	REVISION	BY	TOTAL SHEETS	SHEET NO.
8/18/21	1	...	194	80



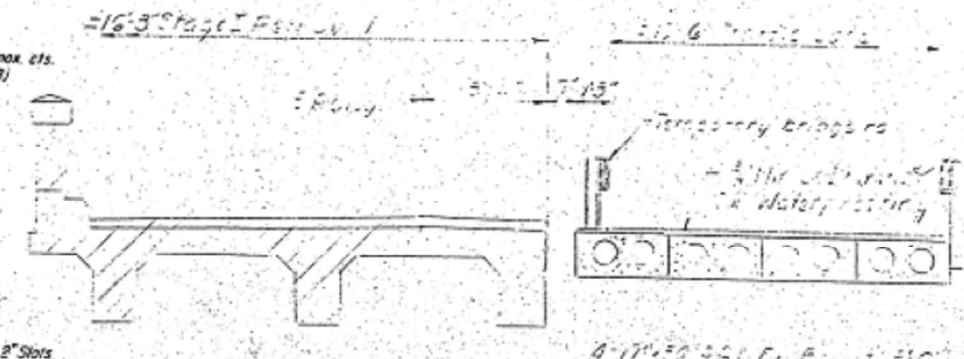
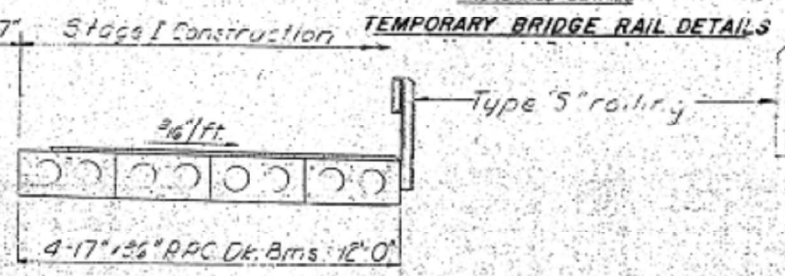
STAGE I REMOVAL
(Looking East)



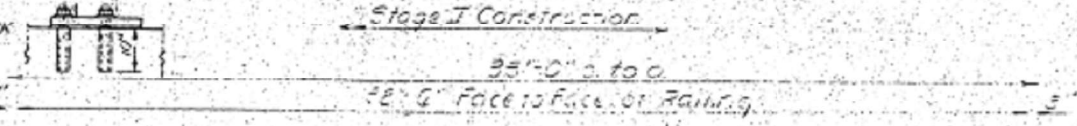
STAGE I CONSTRUCTION
(Looking East)



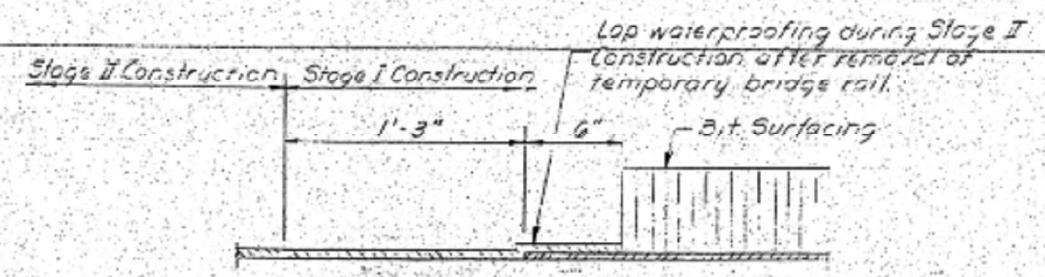
ANCHORAGE DETAILS
TEMPORARY BRIDGE RAIL DETAILS



STAGE II REMOVAL
(Looking East)



CROSS SECTION
(Looking East)



WATERPROOFING TREATMENT

STAGE CONSTRUCTION
F.A.R.T.E. 91 SEC. 114 BR-1
MACOUPIN COUNTY
STA 701+22.00

DESIGNED BY: [Signature]	APPROVED BY: [Signature]
CHECKED BY: [Signature]	DATE: APR 10 1979
BY: Mercado	
CHECKED BY: [Signature]	

USER NAME = cancels	DESIGNED -	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

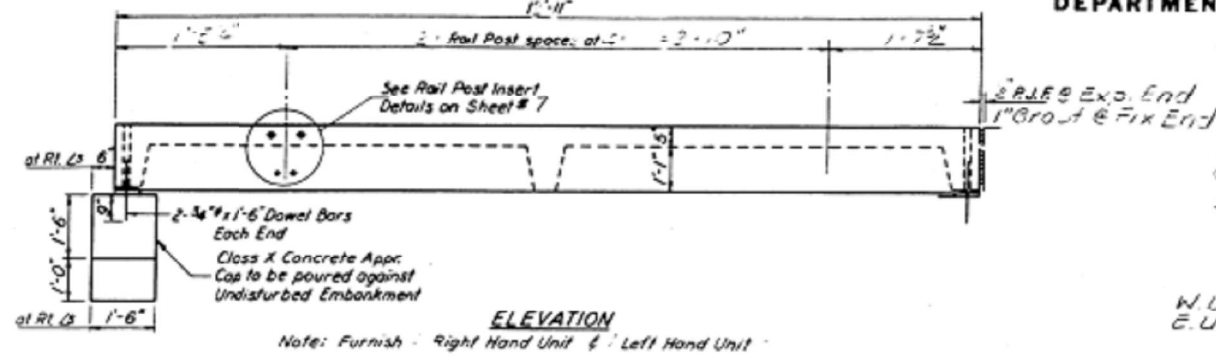
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS - FOR INFORMATION ONLY			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114-116)B-2,3,4	MACOUPIN	194	80
CONTRACT NO. 72B64				
ILLINOIS FED. AID PROJECT				

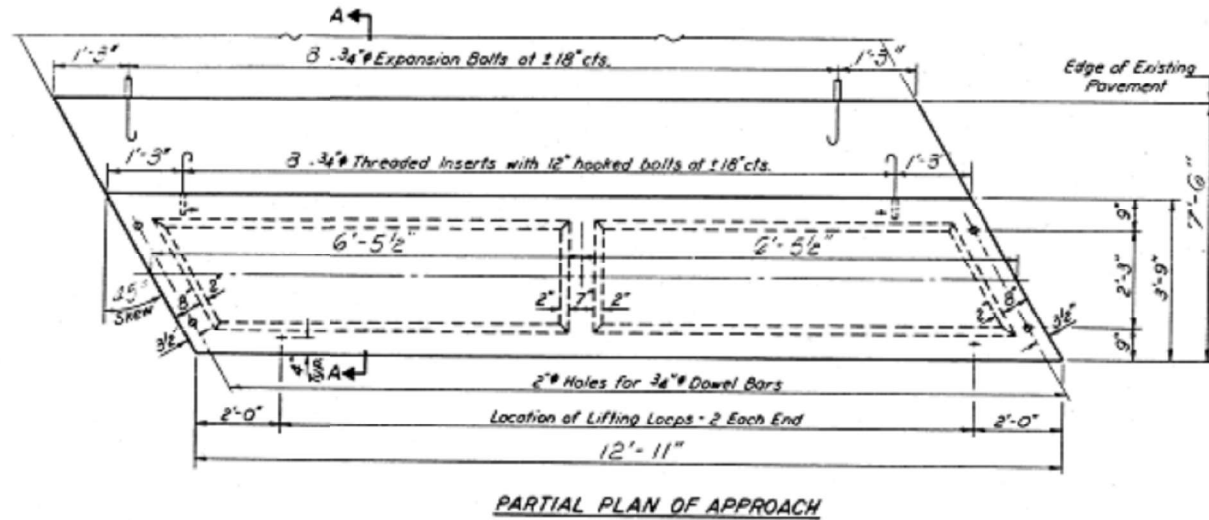
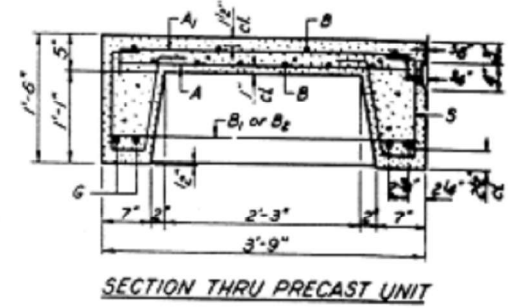
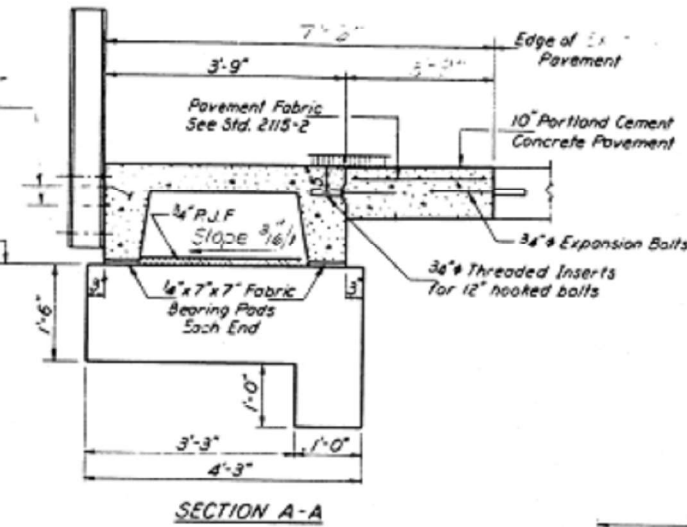
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	NO.	DESCRIPTION	BY	CHKD.
SHEET NO. 3 SHEETS				



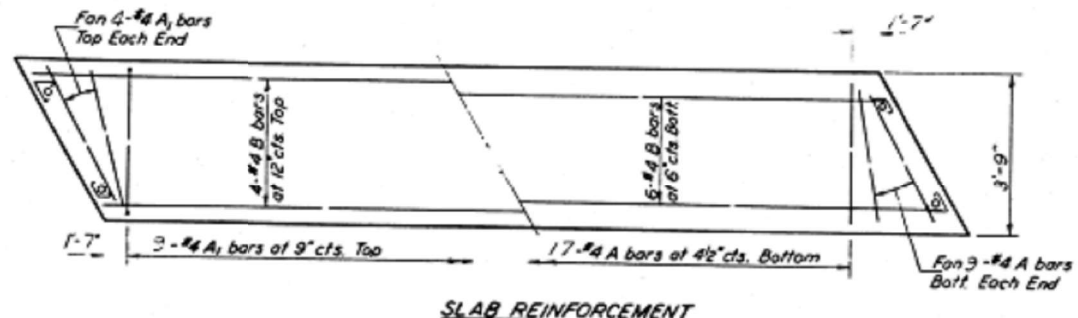
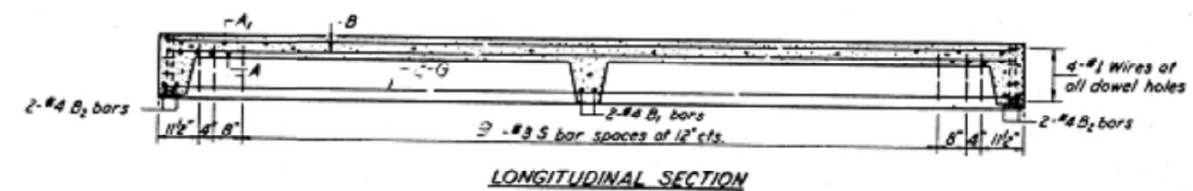
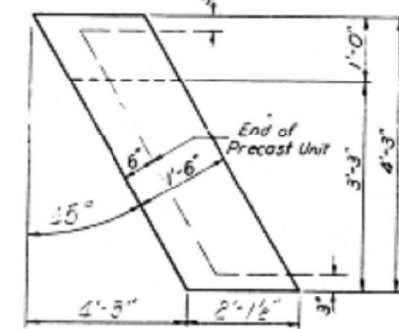
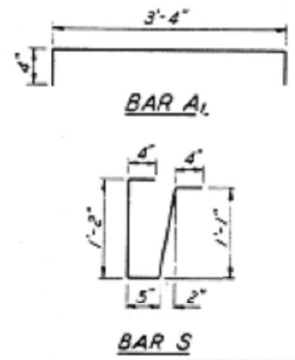
PROVIDE RAIL POST ANCHOR AS SEE SHEET #7

Unit Elev 60453
E Unit Elev 60427



BAR LIST - ONE UNIT
Reinforcement to be cast into slab

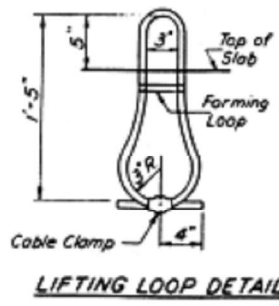
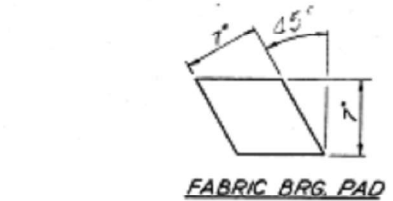
Bar No	Size	Length	Shape
A	#4	3'-3"	
A ₁	#4	4'-0"	
B	#4	12'-0"	
B ₂	#4	3'-6"	
G	#10	12'-0"	
S	#3	3'-4"	



NOTES
Unless otherwise approved by the Engineer, lifting loops shall be 1/2 inch 6x25 class wire rope with fiber core and shall have a minimum ultimate strength of 21,000 lbs. Loops shall be burned off after slab has been erected. Holes shall be drilled and anchor dowels grouted in place. Cost of reinforcement and accessories cast into the slab unit, bearing pads, furnishing, drilling for, placing and grouting anchor dowels and 3/4 inch hooked bolts is included in Unit bid price for "Precast Concrete Bridge Slab." The Precast Concrete Bridge Slab shall be erected and aligned with the exterior face of the exterior Deck Beam after Deck Beams are in final position.

TWO UNITS
BILL OF MATERIAL

Item	Unit	Quantity
Precast Concrete Bridge Slab	Sq. Ft.	37
Portland Cement Concrete Pavement (10)	Sq. Yds.	1
Pavement Fabric	Sq. Yds.	1
Expansion Bolts 3/4"	Each	32
Class X Concrete	Cu. Yds.	1.2



STRESSES
f_c = 4,500 psi
f_t = 1,800 psi
f_s = 20,000 psi
n = 8

LOADING HS-20

SHORT UNITS
APPROACH DETAILS
F.A.P. 91 SEC. 114 E.P.-1
MACOUPIN COLONY
STA 701+20.00

DESIGNED	3/11/MP	EXAMINED	[Signature]
CHECKED	[Signature]	DRAWN	JM
DRAWN	JM	APPROVED	[Signature]
CHECKED	[Signature]		

AP-2 20' Precast Appr. Unit. (Stewed R.F.) (1-13-71)

USER NAME = cancels	DESIGNED -	REVISED -
PLOT SCALE = 100,000' / 1"	DRAWN -	REVISED -
PLOT DATE = 8/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS - FOR INFORMATION ONLY

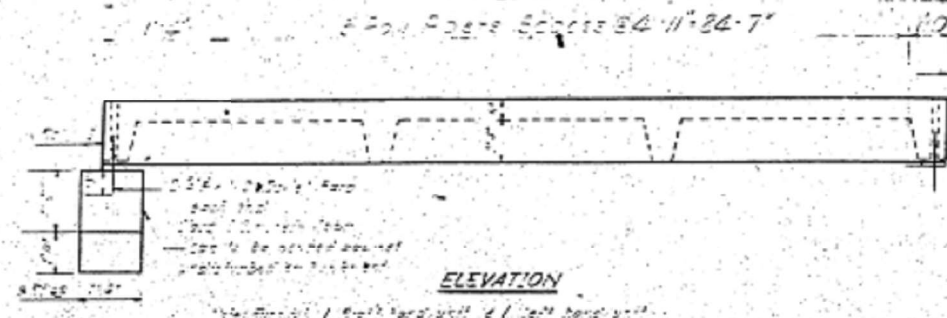
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114-116)B-2,3,4	MACOUPIN	194	81
CONTRACT NO. 72B64				

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PROJECT: 114-116-2,3,4
DRAWN: JM
CHECKED: [Signature]
DATE: 8/18/2021

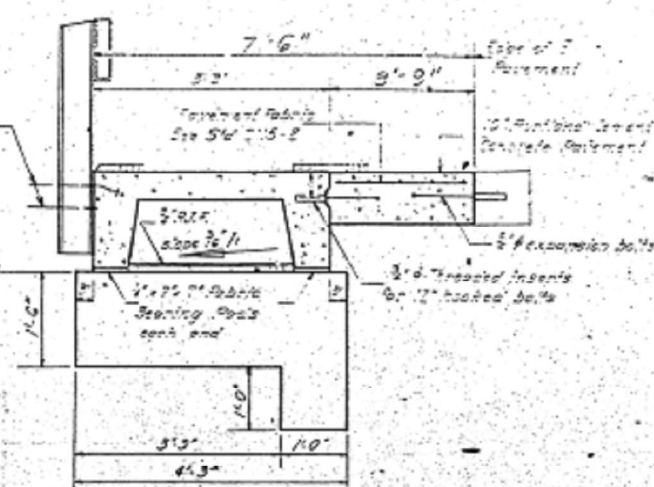
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	SHEET NO.
72B64	11-22	82

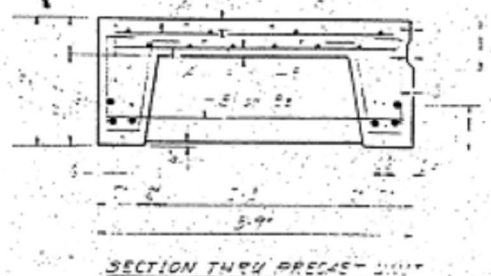


ELEVATION

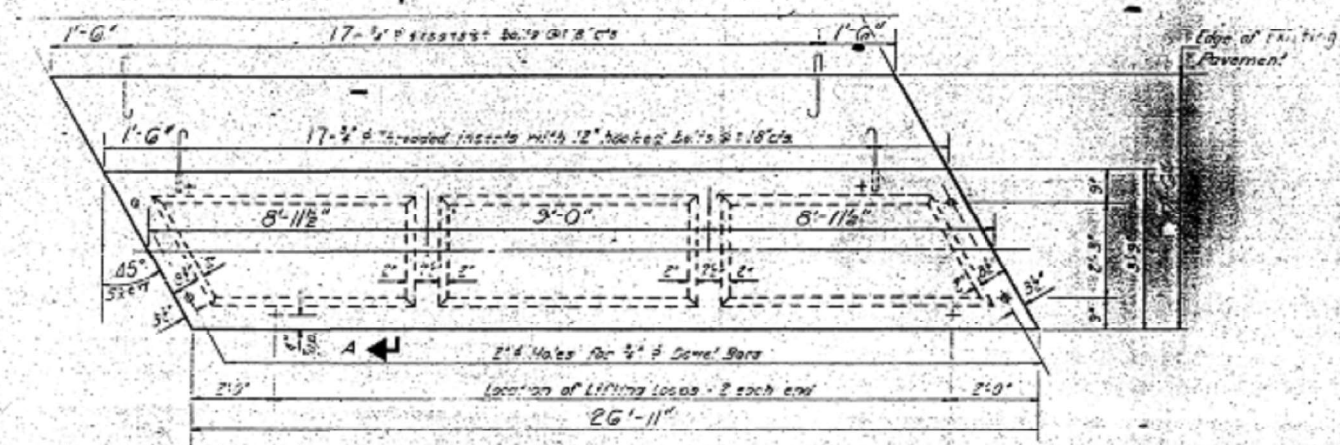
Provide rail post anchor devices see sheet #7
W. Unit Elev. 604.04
E. Unit Elev. 604.00



SECTION A-A



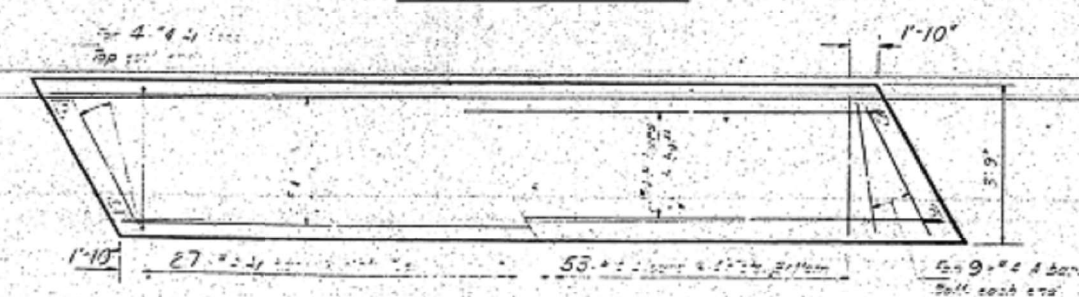
SECTION THRU PRECAST UNIT



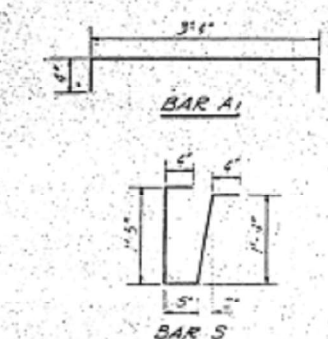
PARTIAL PLAN OF APPROACH



LONGITUDINAL SECTION



SLAB REINFORCEMENT

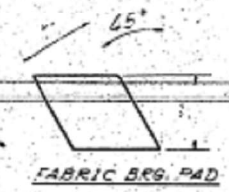


BAR LIST - ONE UNIT
Reinforcement to be cast in place

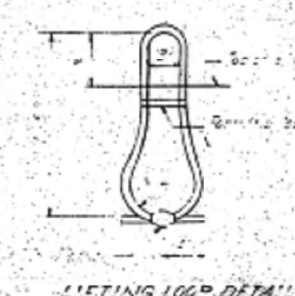
Bar	Ab.	Size	Length	Notes
A	71	#4	2'-0"	
A1	35	#6	4'-0"	
B	10	#6	26'-6"	
B1	2	#2	3'-0"	
B2	4	#6	5'-0"	
G	4	#6	26'-6"	
G1	2	#6	26'-6"	
S	70	#3	3'-8"	1/

NOTES

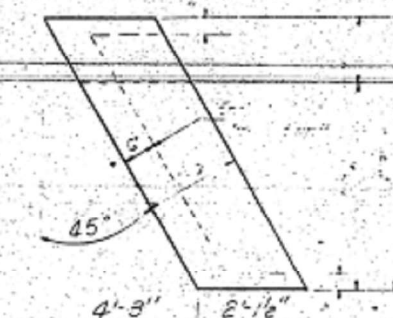
Unless otherwise approved by the Engineer, lifting loops shall be 2" x 4" x .25 cold wire rope with "Nose cone" and "Stop" ends. A minimum ultimate strength of 21000 lbs. "Nose cone" shall be burned or other end has been crushed. "Nose cone" shall be fitted and anchor device shall be cast in place. All reinforcement and accessories cast into the slab shall be cast in place. Lifting loops shall be cast in place and shall be cast in place. The Engineer's Office shall be notified and shall be notified.



FABRIC BRG. PAD



LIFTING LOOP DETAIL



PLAN - APPROACH STRESSES

LONG UNITS
BILL OF MATERIALS

Item	Quantity	Unit
Pressure Concrete	802	cu yd
Reinforcing Steel	22	tons
Formwork	68	sq ft
Other Materials	12	units

LONG UNITS
APPROACH DETAILS
PART 9 SEC 11-22
1/4" SCALE
11-20-22

DESIGNED	W.H.P.	EXAMINED	[Signature]
CHECKED	[Signature]	PASSED	[Signature]
DRAWN	F.M.	APPROVED	[Signature]
CHECKED	[Signature]		

MODEL: Default
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PROJECT: 72B64
SHEET: 82 OF 82
DATE: 8/18/2021

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS - FOR INFORMATION ONLY

USER NAME = cancels	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

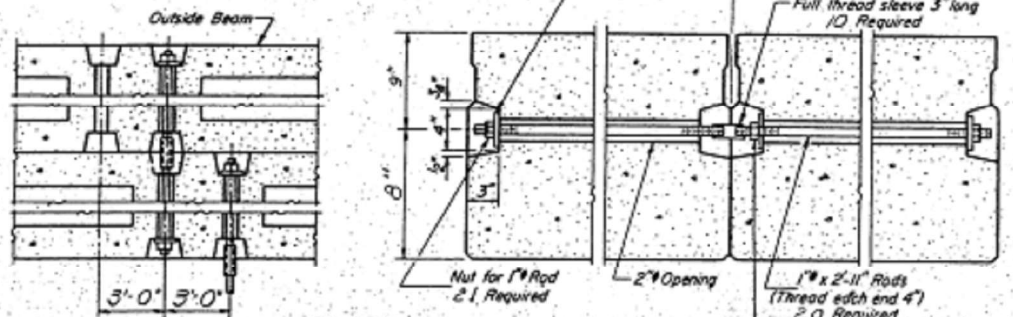
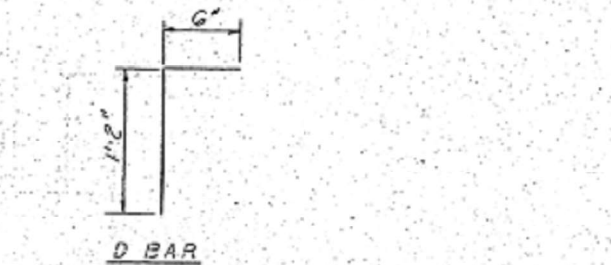
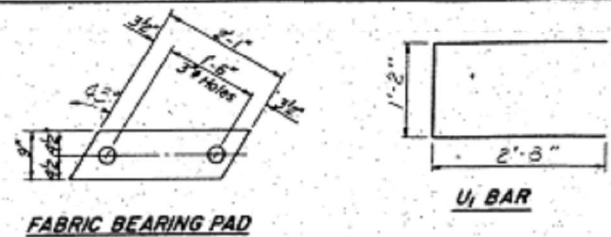
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114-116)B-2,3,4	MACOUPIN	194	82
SCALE:		SHEET OF SHEETS		STA. TO STA.
		ILLINOIS		FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

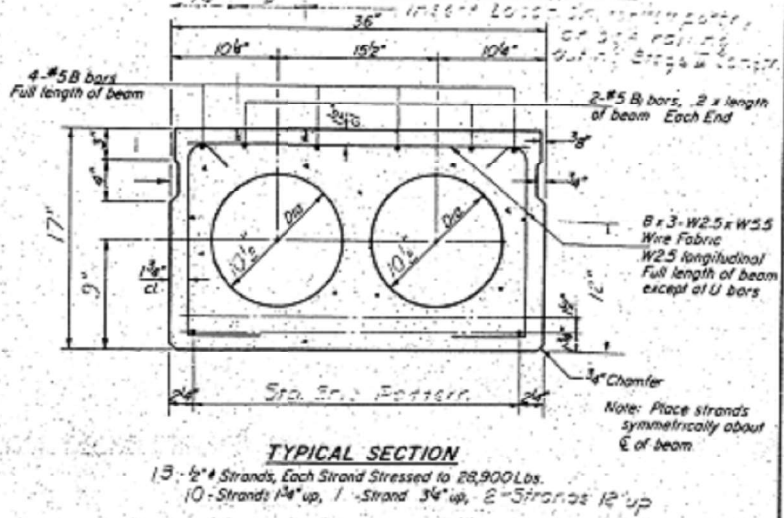
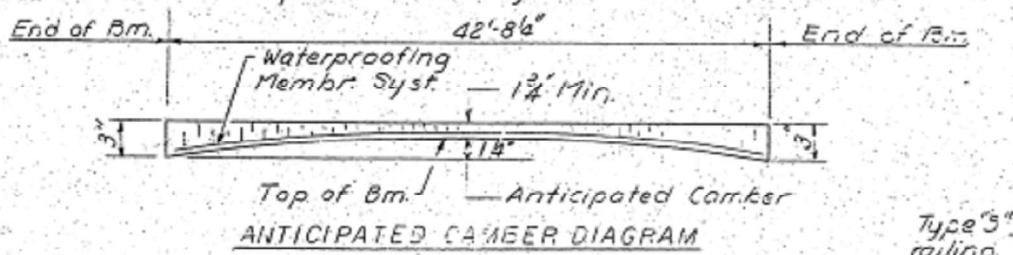
Stage II Construct. | Stage I Construction

Omit key or exterior face of outside beam.

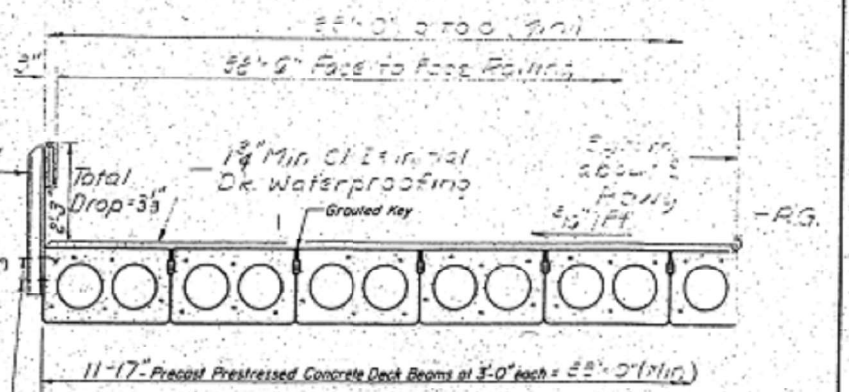
SHEET NO. 5
2 SHEETS



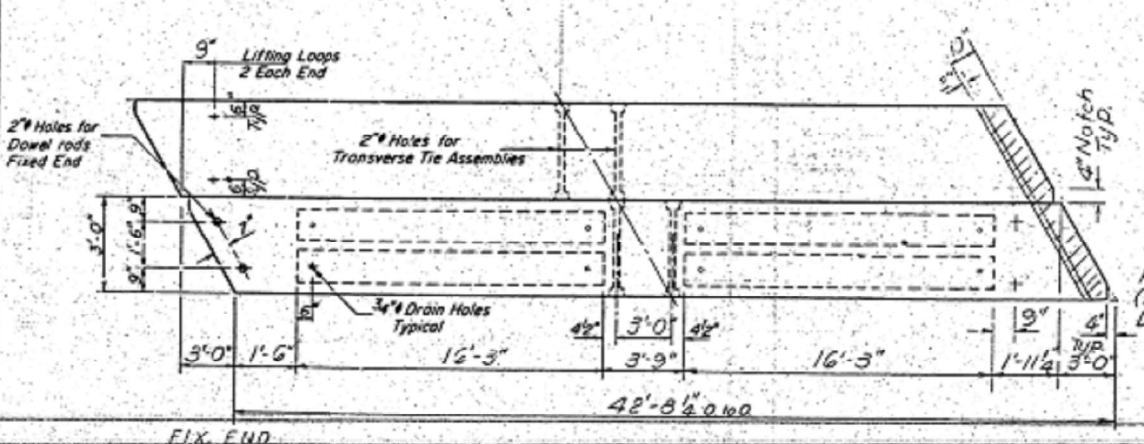
TYPICAL TRANSVERSE TIE ASSEMBLY
(1 Extra plate washer & nut are provided for Stage Construction)



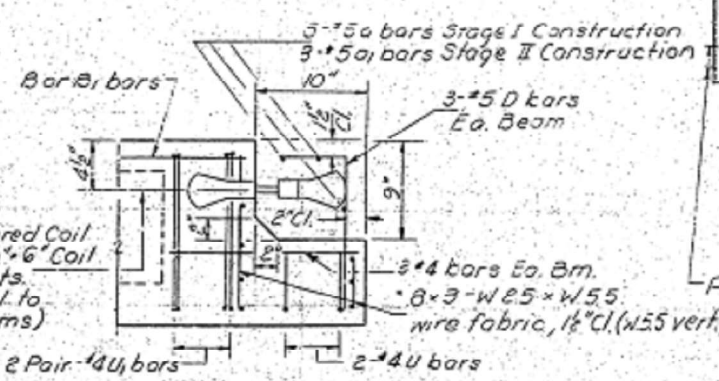
TYPICAL SECTION



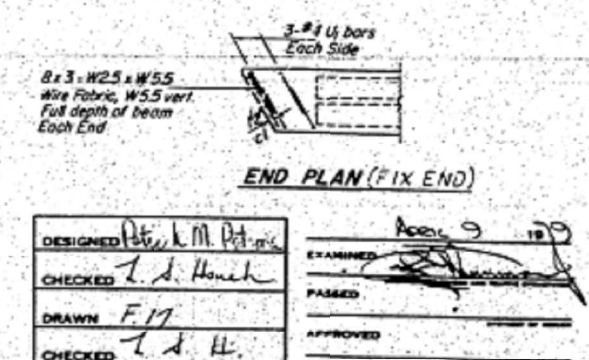
HALF CROSS SECTION



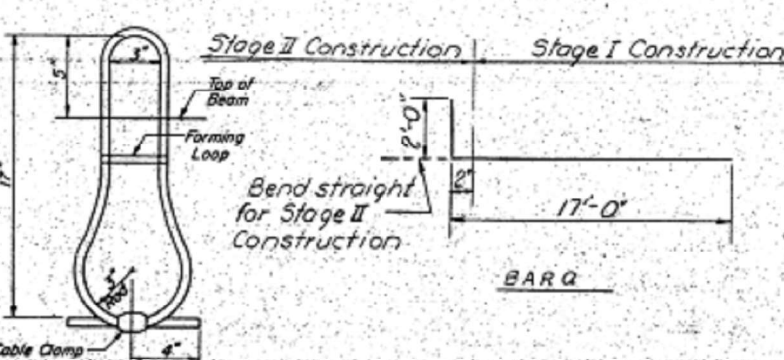
PLAN



END PLAN (EXP. END)



END PLAN (FIX. END)



LIFTING LOOP DETAIL

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
D	3	#5	19'-0"	
Q1	3	#5	23'-6"	
Precast Prestressed Concrete Deck Beams (17')		Sq Ft.	1409	
Reinforcement Bars		Pounds	150	
Class X Concrete		Cu Yd.	3.5	

NOTES

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand, Grade 270. The nominal diameter shall be 1/2 inch and the nominal cross-sectional area shall be 0.153 sq in. Lifting loops shall be 1/2 inch diameter, 6x25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 21,000 lbs. The 1/2 inch rods in the transverse tie assembly shall be tightened to a snug fit and the threads per after Stage II Construct. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place. Longitudinal shear keys shall be packed with a very dry mix of 2-1 sand and P.C. mortar. After beams have been erected, holes for the dowel anchors shall be drilled into the sub-structure and the anchor dowels shall be grouted in place. Reinforcement bars shall conform to AASHTO: M-31 or M-53, Grade 60. Cost of reinforcement and accessories cast into the beam, of bearing pods, of armor angles, and of grouting longitudinal shear keys is included in unit price bid for 'Precast Prestressed Concrete Deck Beams.'

DESIGNED: P. M. P. (Signature)
CHECKED: T. S. H. (Signature)
DRAWN: F. M. (Signature)
CHECKED: T. S. H. (Signature)

EXAMINED: (Signature)
PASSED: (Signature)
APPROVED: (Signature)

DESIGNER'S NAME: P. M. P.
DATE: 8/18/2021

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS - FOR INFORMATION ONLY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114-116B-2,3,4)	MACOUPIN	194	83

CONTRACT NO. 72B64

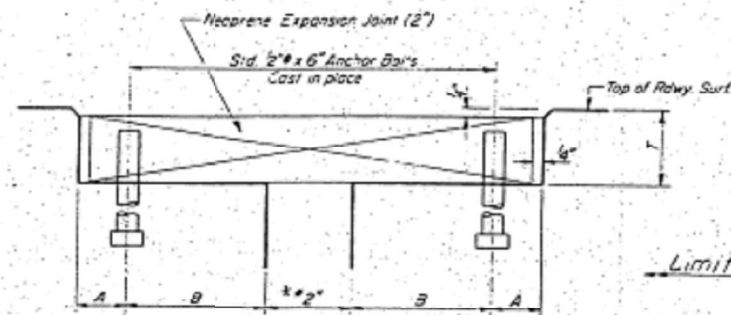
SCALE: SHEET OF SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

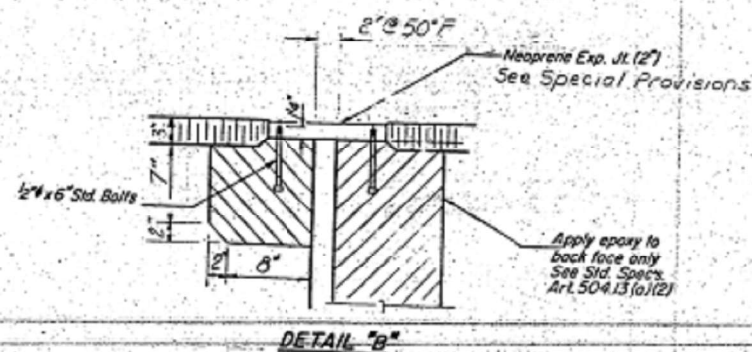
Limits of Waterproofing Membr. Syst.

DATE	4.25.11	SCALE	2.2	2.2	SHEET NO. 3
					9 SHEETS



CROSS SECTION
At 50°F
Dimensions are at right angles

NOTE:
Joint openings shall be adjusted in accordance with Article 50307 (c) of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.

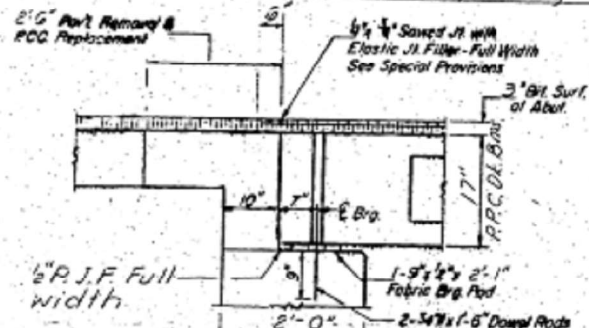


DETAIL "B"

NOTE: Dimensions are at right angles.
Hatched areas to be poured after beams have been erected and joints grouted.
Ends of beams shall be aligned at the expansion joints. Any lineal variation in the beam lengths shall be placed at the fixed joint. See End of Beam Detail for reinforcement.

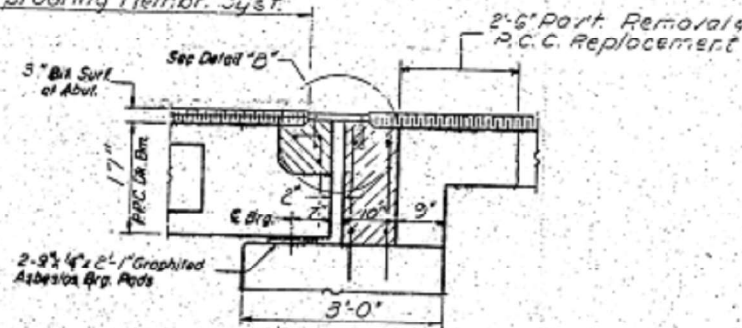
DESIGNED	P. L. M. P. T.	EXAMINED	APR 9 1977
CHECKED	T. A. Houch	PASSED	
DRAWN	Mercado	APPROVED	
CHECKED	T. A. H.		

EU-1 2-10-77



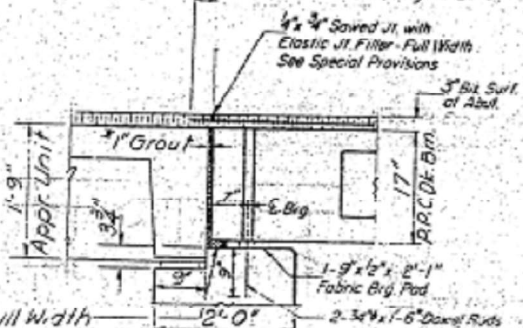
SECTION THRU W. ABUT
AT C. ROWY.

Limits of Waterproofing Membr. Syst.



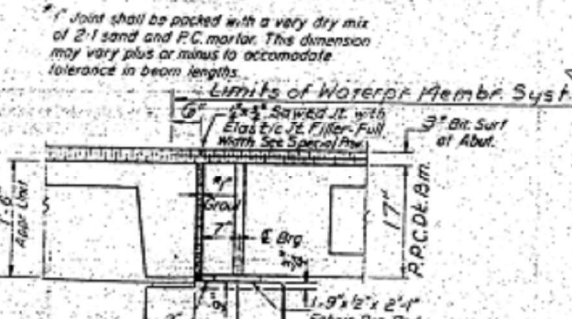
SECTION THRU E. ABUT
AT C. ROWY.

Limits of Waterproofing Membr. System



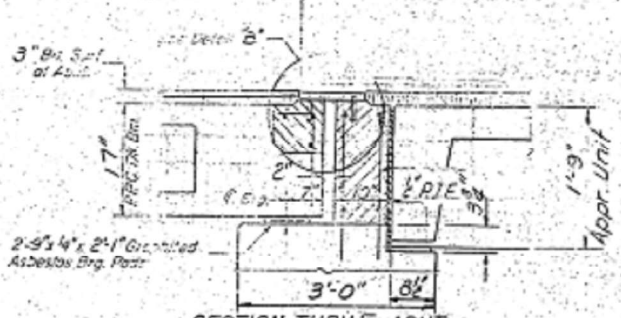
SECTION THRU W. ABUT
AT OUTSIDE E.M. N.W. CORNER

* Joint shall be packed with a very dry mix of 2-1 sand and P.C. mortar. This dimension may vary plus or minus to accommodate tolerance in beam lengths.

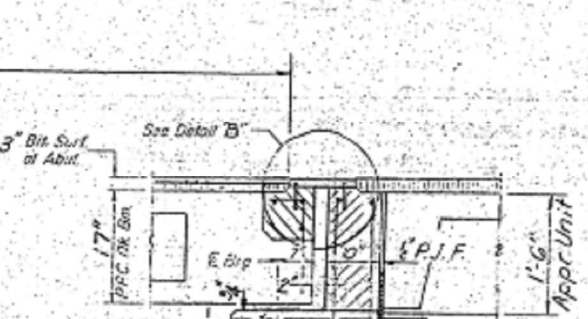


SECTION THRU W. ABUT
AT OUTSIDE E.M. S.W. CORNER

Limits of Waterpr. Membr. Syst.



SECTION THRU E. ABUT
AT OUTSIDE E.M. N.E. CORNER



SECTION THRU E. ABUT
AT OUTSIDE E.M. N.E. CORNER

ALTERNATE NEOPRENE EXPANSION JOINTS (2")
(See Special Provisions)

Model	Supplier	Blockout Dimensions
TRANSFLEX, MODEL 200A	General Tire Company	T = 1 3/8", A = 1 1/8", B = 3 3/8"
WABOFLEX, MODEL SR 2	Watson Bowman Associates, Inc.	T = 1 3/8", A = 1/4", B = 3 3/8"
FEL-SPAN, MODEL T-30 Set joint seal 1/8" at 50°F	Fel-Pro Building Products Inc.	T = 1 3/8", A = 2/4", B = 2 3/8"
WABO ELASTODIAM, TYPE 300 Set joint seal 1/8" at 50°F	Watson Bowman Associates, Inc.	T = 1 3/8", A = 2/4", B = 2 3/8"
LOW PROFILE ONFLEX-25 Set joint seal 1/2" at 50°F. Roadway joint channel shall be filled with approved grout. Permitted for up to 50° skew.	Structural Accessories, Inc.	T = 1 3/8", A = 1/8", B = 2 3/8"



AT ABUTMENT
(NEOPRENE EXP. JOINT)

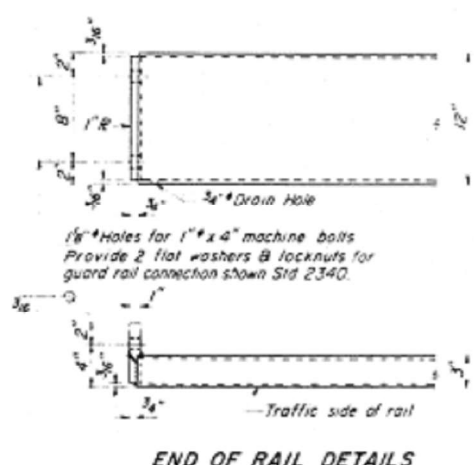
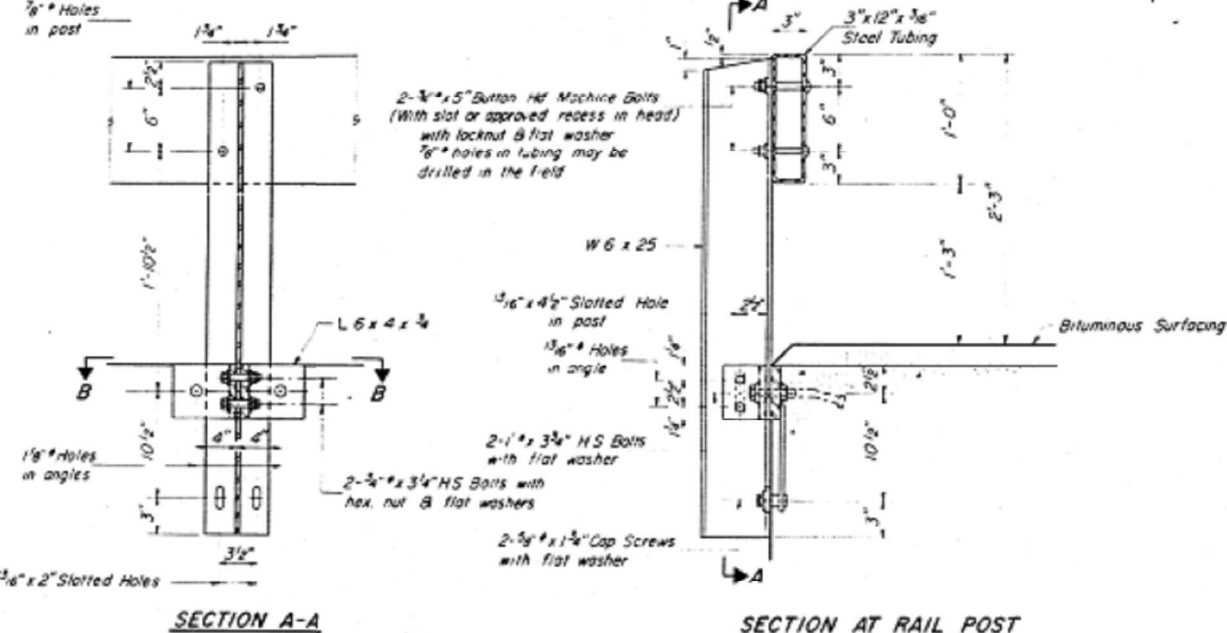
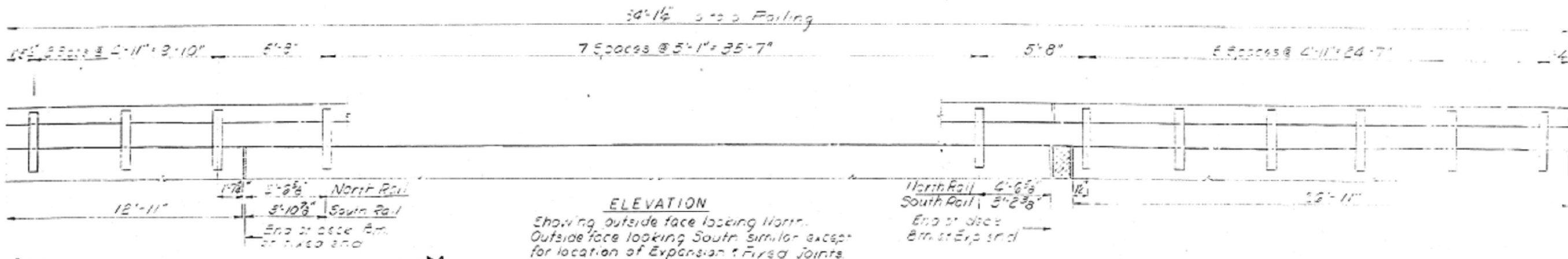
STRUCTURE DETAILS
F.A. RT 91 SEC. 11+28-1
MACOUPIN COUNTY
STA 701+2000

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS - FOR INFORMATION ONLY

USER NAME = cancels	DESIGNED -	REVISED -	F.A.P. RTE. 325	SECTION (114-116)B-2,3,4	COUNTY MACOUPIN	TOTAL SHEETS 194	SHEET NO. 84
PLOT SCALE = 100,000' / 1 in.	DRAWN -	REVISED -	SCALE:	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 72B64	
PLOT DATE = 8/18/2021	CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT		

SHEET NO.	
- SHEETS	



NOTES

Hollow structural steel tubing shall conform to the requirements of ASTM designation A-500 Grade B or A-501 Structural Steel Tubing.

All other steel shapes and plates shall conform to the requirements of AASHTO M-183 except posts shall conform to AASHTO M-188.

Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A-307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M-164.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with AASHTO M-252.

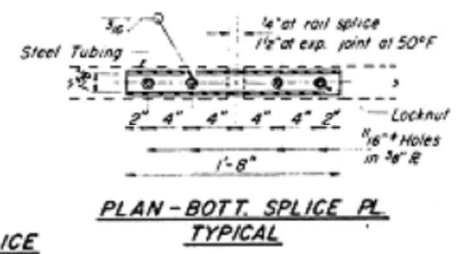
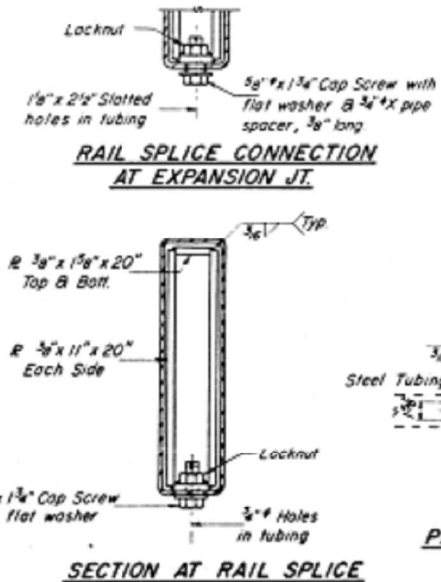
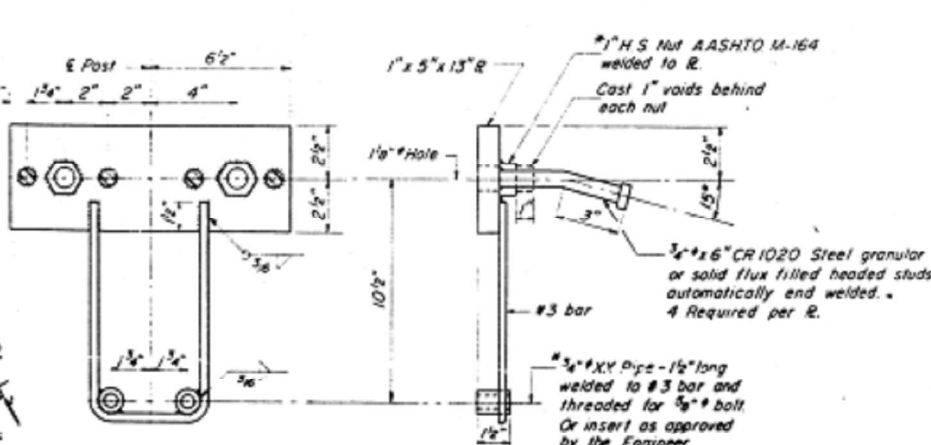
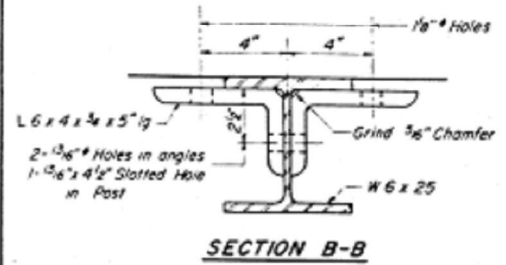
All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with AASHTO M-111 and AASHTO M-385. Galvanized rail shall not be painted.

Railing shall be in accordance with Section 50B of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per linear foot for STEEL RAILING, TYPE S.

All field drilled holes shall be coated with an approved zinc rich paint before erection.

The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.08 Type B or place 1/2" fabric bearing pad between the post and concrete.

The 3/4" high strength bolts used to connect the 6 x 4 x 1/4 angles to the post shall be tightened in accordance with Article 507.04(g)(3) of the Standard Specifications. The 1" high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/8 turn.



BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S	Lin Ft	63

TYPE S STEEL RAILING

E.A. RIDEI SEC 1485-11

MACOUPIN COUNTY

STA 70+00.00

DESIGNED *A.H.*

CHECKED *J.A.H.*

DRAWN *F.I.J.*

CHECKED *L.A.H.*

EXAMINED *[Signature]*

PERMITTED *[Signature]*

APPROVED *[Signature]*

SECTION OF HIGHWAY

R-23 12-30-77 (6'-3" Maximum Post Spacing)

USER NAME = cancels	DESIGNED -	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

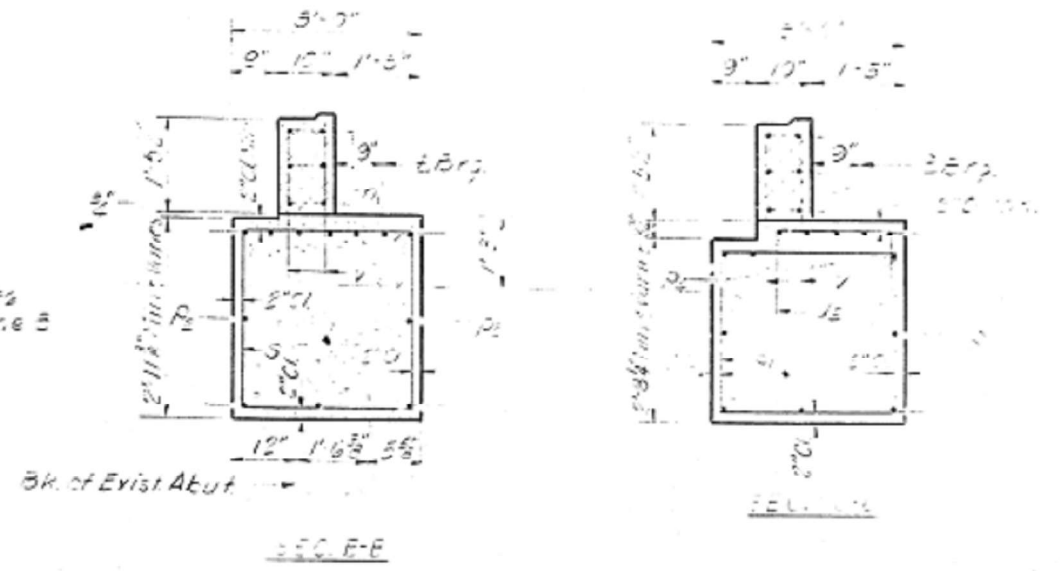
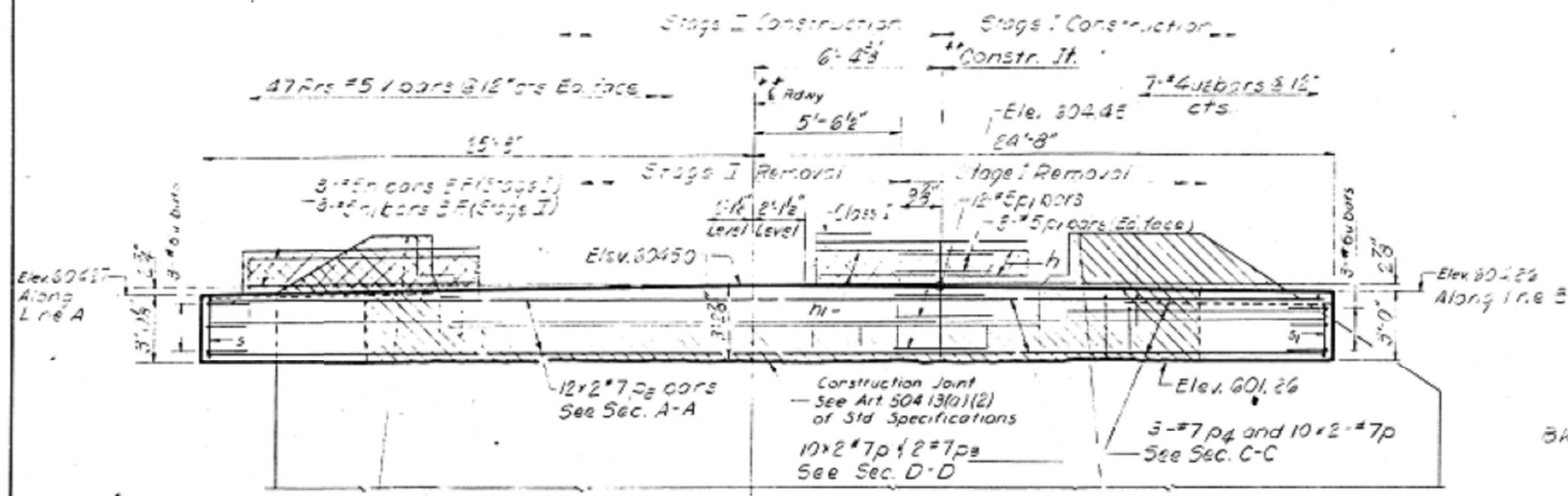
STRUCTURE PLANS - FOR INFORMATION ONLY

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114-116)B-2,3,4	MACOUPIN	194	85
		CONTRACT NO. 72B64		
		ILLINOIS FED. AID PROJECT		

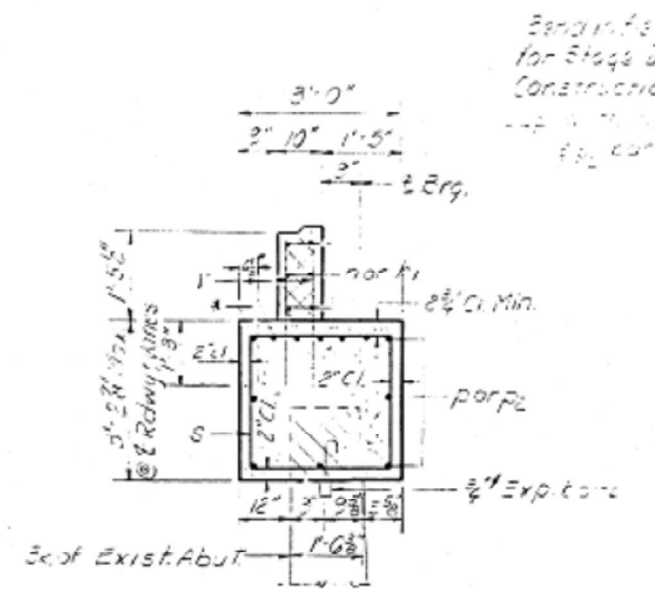
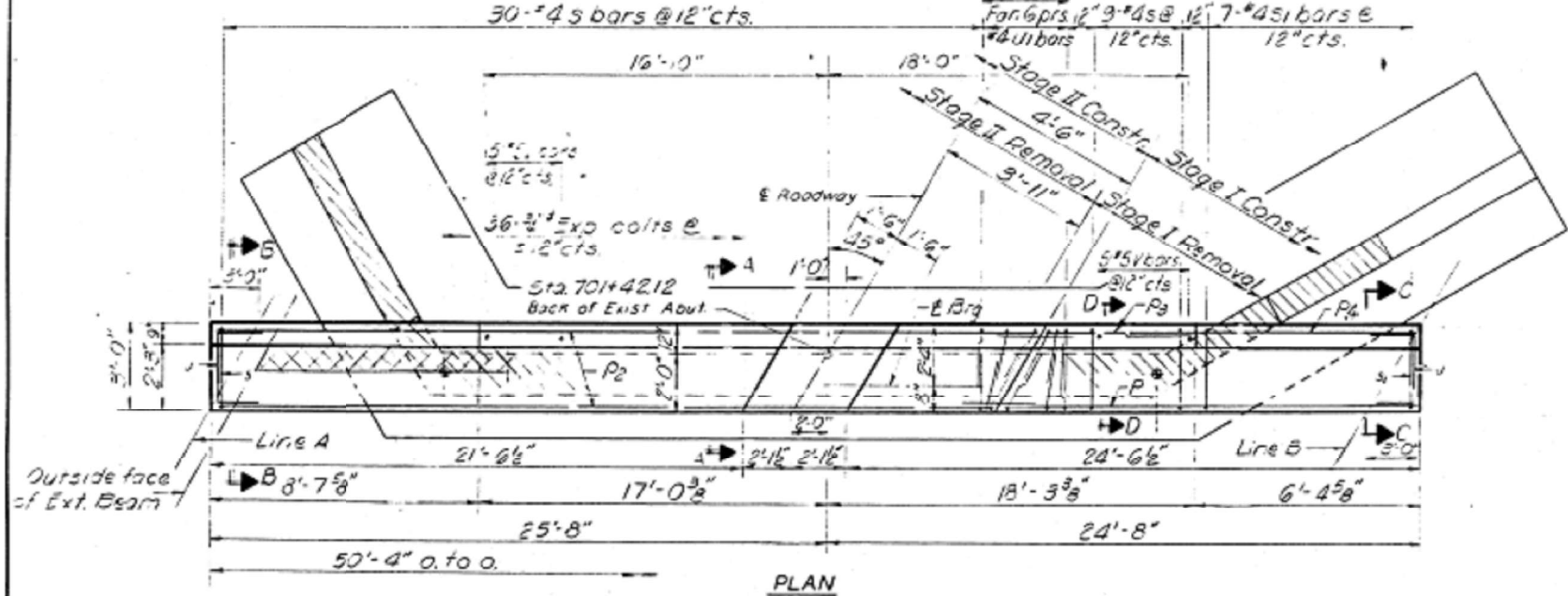
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	BY	CHKD	APPD	SHEET NO.
				86



ELEVATION

** At back of existing Abut.



BILL OF MATERIALS

Bar No	SIZE	Length	Spaced
A	#5	16'-3"	
F1	#5	23'-2"	
F2	#5	11'-2"	
P1	#5	4'-0"	
D2	#7	8'-0"	
D3	#7	0'-7"	
D4	#7	10'-5"	
S	#4	1'-2"	
S1	#6	10'-9"	
J	#6	7'-7"	
J1	#6	7'-8"	
U2	#2	5'-11"	
V	#5	2'-6"	
Class X Concrete		Cu Yds	175
Reinforcement Bars		Lbs	2530
Expansion Bolts 1/2"		Each	25
Concrete Removal		Cu Yds	20

NOTES:
Cross hatched area to be poured after Bars are in place.
Hatched area indicates Concrete Removal Reinforcement extending into removed area shall be cleaned and incorporated into the new construction.
Expansion Bolts shall be anchored in sound concrete. All edges shall have standard 3/4 chamfers.
Bars indicated thus 10x2-#7 etc indicates 10 lines of bars with 2 lengths per line.
Use 3'-5" Min. lap #7 bars.
Quantities for Cross Hatched area are included with Superstructure on sheet #5.

DESIGNED	EXAMINED
CHECKED	FABED
DRAWN	APPROVED
CHECKED	

Director of Highways

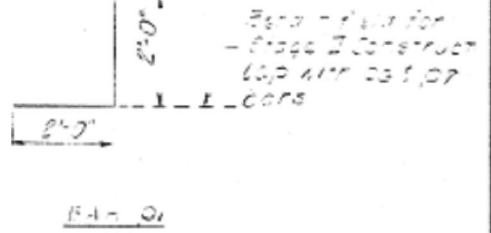
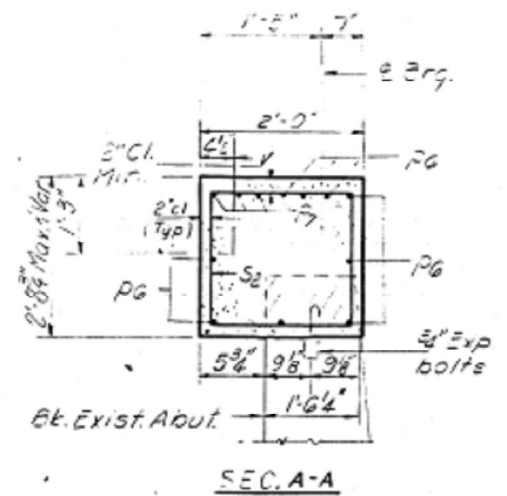
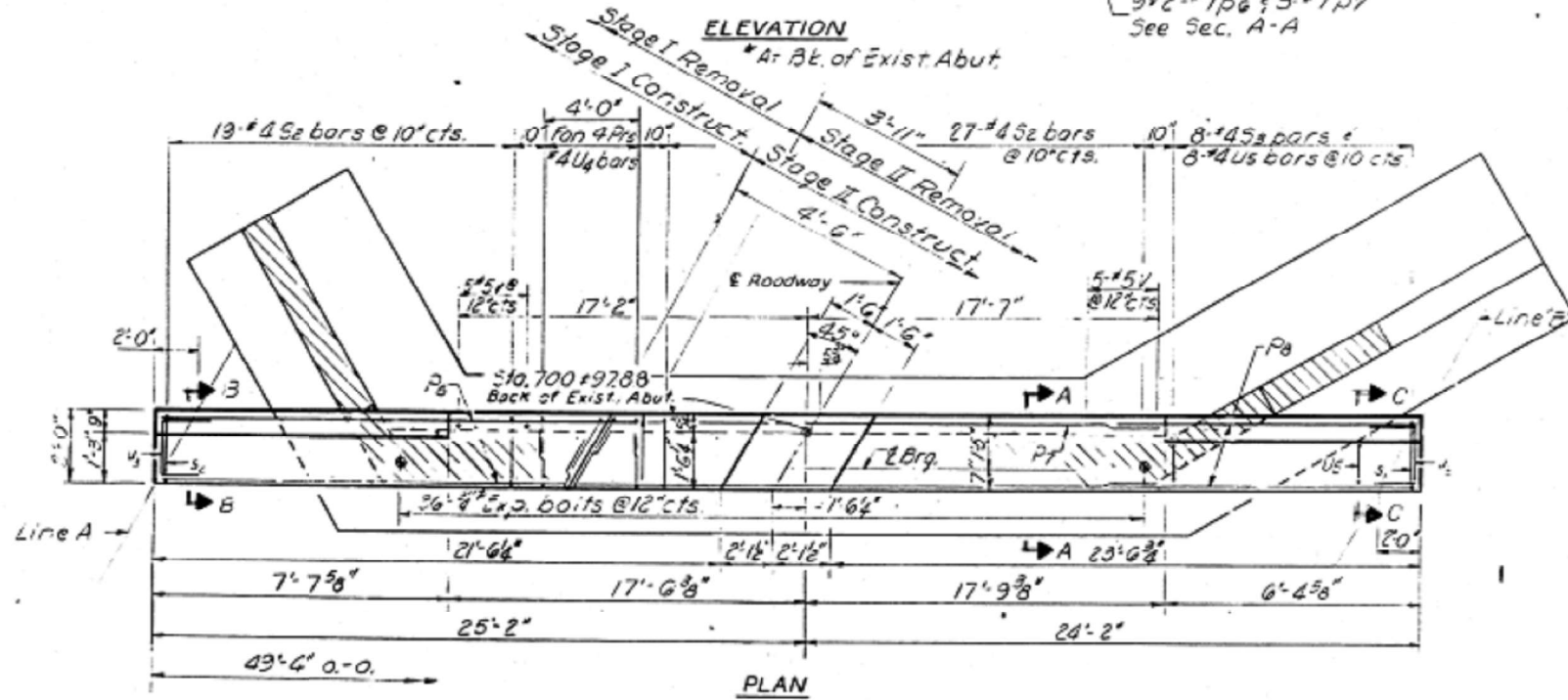
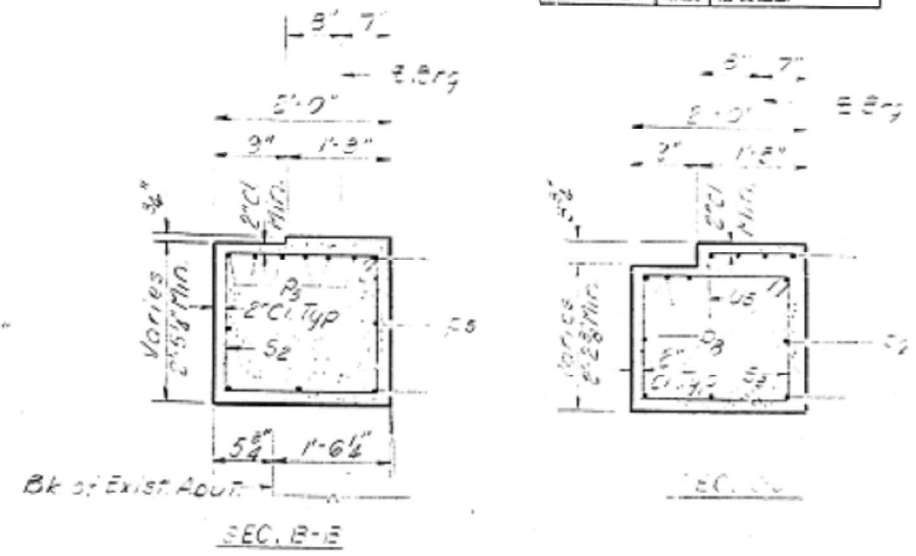
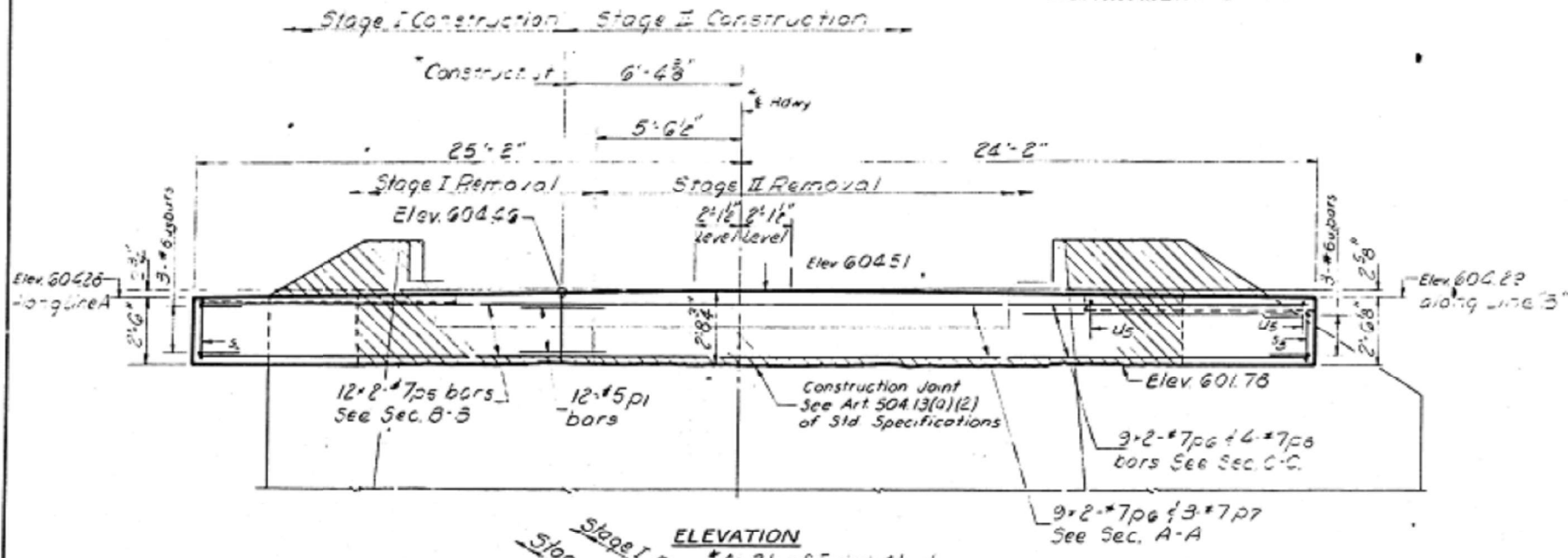
EAST ABUTMENT
F.A. RT. 91 SEC. 11-18-91
MACOUPIV COUNTY
STA. 701+20.00

A-4 (5-15-71) Skew RF, Fixed

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 FILE NAME: C:\Users\Public\Documents\BDOT\Office\Director_E\Projects\0572864\CADD\Info_Sht_0590001\CADD\PrintSet\0572864-86-4-86-4.dwg
 SHEET: 86

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	BY	NO.	REVISION
11/18/21	AMC	1116B-2,3,4	



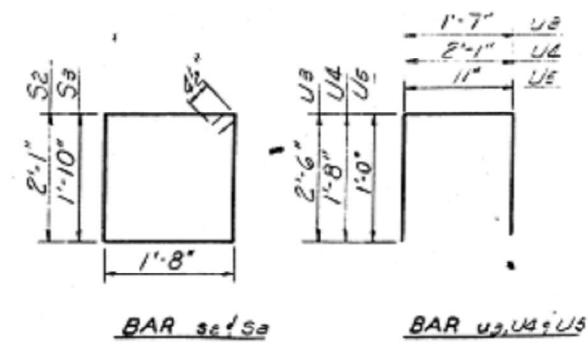
BILL OF MATERIAL

Bar No.	SIZE	LENGTH	SPACE
D1	#2	6'-0"	
D5	#7	11'-2"	
D6	#7	17'-6"	
D7	#7	23'-2"	
D8	#7	10'-5"	
S2	#4	8'-3"	
S3	#2	7'-3"	
U3	#6	6'-7"	
U4	#6	5'-5"	
U5	#6	2'-1"	
V	#5	2'-0"	
Class X Concrete			Cu Yds 9.6
Reinforcement Bars			Lbs 1830
Expansion Bolts 3/4"			Each 36
Concrete Removal			Cu Yds 5.0

Note:
Matched area indicates Concrete Removal Reinforcement extending into removed area shall be cleaned and incorporated into the new construction.
Expansion Bolts shall be anchored in sound concrete. All edges shall have standard 3/4 chamfers.
Bars indicated thus 9x2-#7etc, indicates 3 lines of bars with 2 lengths per line.
Use 3'-5" Min. lap for #7 bars

DESIGNED: Patrick M. P. [Signature]
CHECKED: [Signature]
DRAWN: F.M.
CHECKED: [Signature]

EXAMINED: [Signature]
FABED: [Signature]
APPROVED: [Signature]



REST ABUTMENT
F.A. RT. #1 SEC. 1116B-1
MACO. P. 111 (JUN) 1
STA 701+500

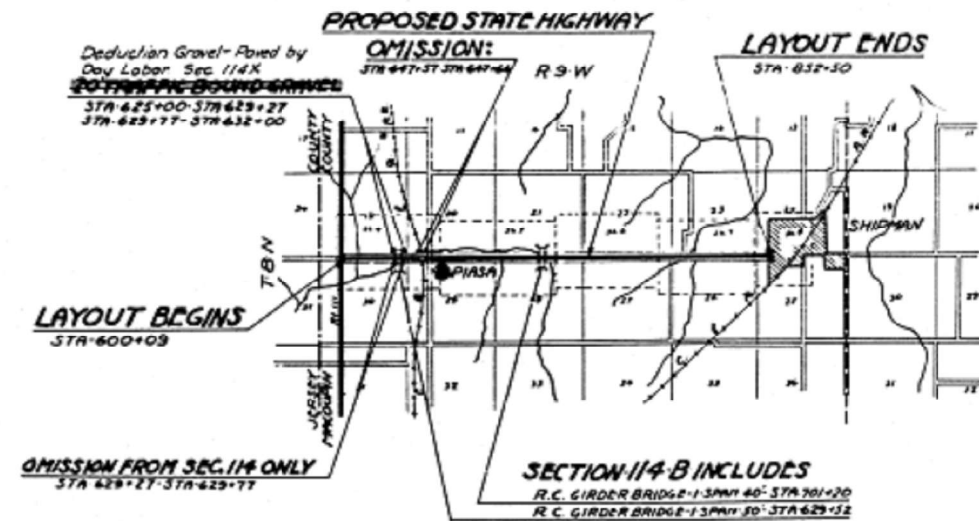
A-4 (12-15-71) Skew R.F., Fixed

USER NAME = cancels	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE PLANS - FOR INFORMATION ONLY	F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 100,000' / 1"	DRAWN -	REVISED -			325	(114-116B-2,3,4)	MACOUPIN	194	87	
PLOT DATE = 8/18/2021	CHECKED -	REVISED -			CONTRACT NO. 72B64					
	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

INDEX TO SHEETS SECTION-114	
SHEET #1 COVER SHEET	
2	STANDARDS NY 1343, 1353
3	DETAIL INTERSECTION WITH RT. 111
4	PLAN & PROFILE STA 600+00-STA 660+00
5	" " " STA 660+00-STA 720+00
6	" " " STA 720+00-STA 780+00
7	" " " STA 780+00-STA 840+00
8	" " " STA 840+00-STA 852+50
9-38 INCLUSIVE CROSS SECTIONS	
36	STANDARD CURV DESIGN 828+1, 828+3, 828+4, 828+5
37	" " " 828+6
37	SPECIAL " " STA 600+00, 607+23, 617+35
38	" " " STA 622+72, 623+20, 625+00, 644+20
39	" " " STA 647+52, 649+30, 651+86
40	" " " STA 657+25, 627+20, 668+06, 675+93
41	" " " STA 652+31, 779+10, 783+81, 787+10
42	" " " STA 731+35, 734+49, 802+53, 807+30
43	" " " STA 808+95, 809+00, 815+60, 823+60
44	" " " STA 834+10, 843+30, 846+60, 848+00
45	" " " 81627+30, 81607+40, 81613+80
46	STEPS AT PILE CAPS STA 694+30
45	STANDARDS NY 1063-1203
48	" " " 1142-1183
SECTION-114-B	
SHEET #1 COVER SHEET	
4	PLAN & PROFILE
5	" " "
47	SPECIAL BRIDGE DESIGN STA 629+52 (SHEET 103)
48	" " " STA 629+52 (" " 203)
49	" " " STA 629+52 (" " 303)
50	" " " STA 701+20 (" " 102)
51	" " " STA 701+20 (" " 202)

ROUTE-110-SEC-114-114B-MACOUPIN CO.

FROM A POINT NEAR THE SW CORNER OF THE S.E. 1/4 OF THE S.W. 1/4 OF SECTION 19, T-8 N, R-9 W, OF THE 3rd P.M. TO A POINT NEAR THE SW CORNER OF SECTION 24, T-8 N, R-9 W, OF THE 3rd P.M.



LAYOUT
 APPROXIMATE SCALE = 1 INCH = 1 MILE
 NET LENGTH OF LAYOUT = 252300 FT = 4.7784 MI.

4-20	31
C.M. SLAYMAKER	
4-20	31
4-20	31
4-20	31

8-15

MODEL: Default FILE: M:\E:\p\114827864\114827864.dwg DATE: 8/18/2021 10:48:11 AM PROJECT: 114827864

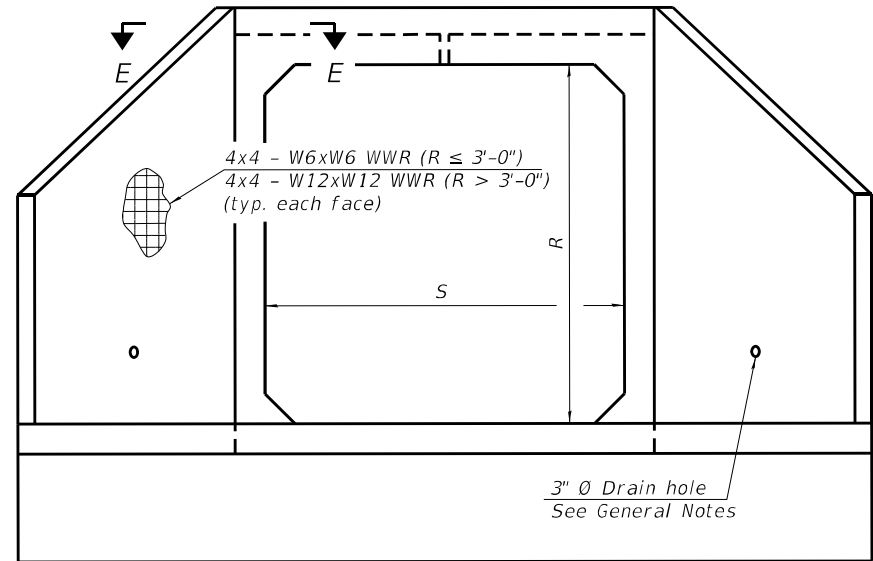
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PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

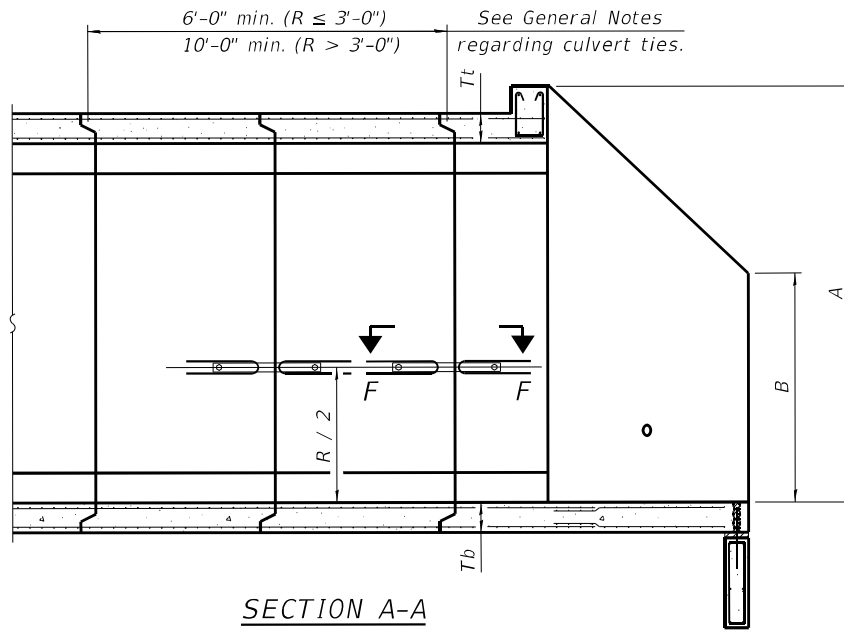
STRUCTURE PLANS - FOR INFORMATION ONLY

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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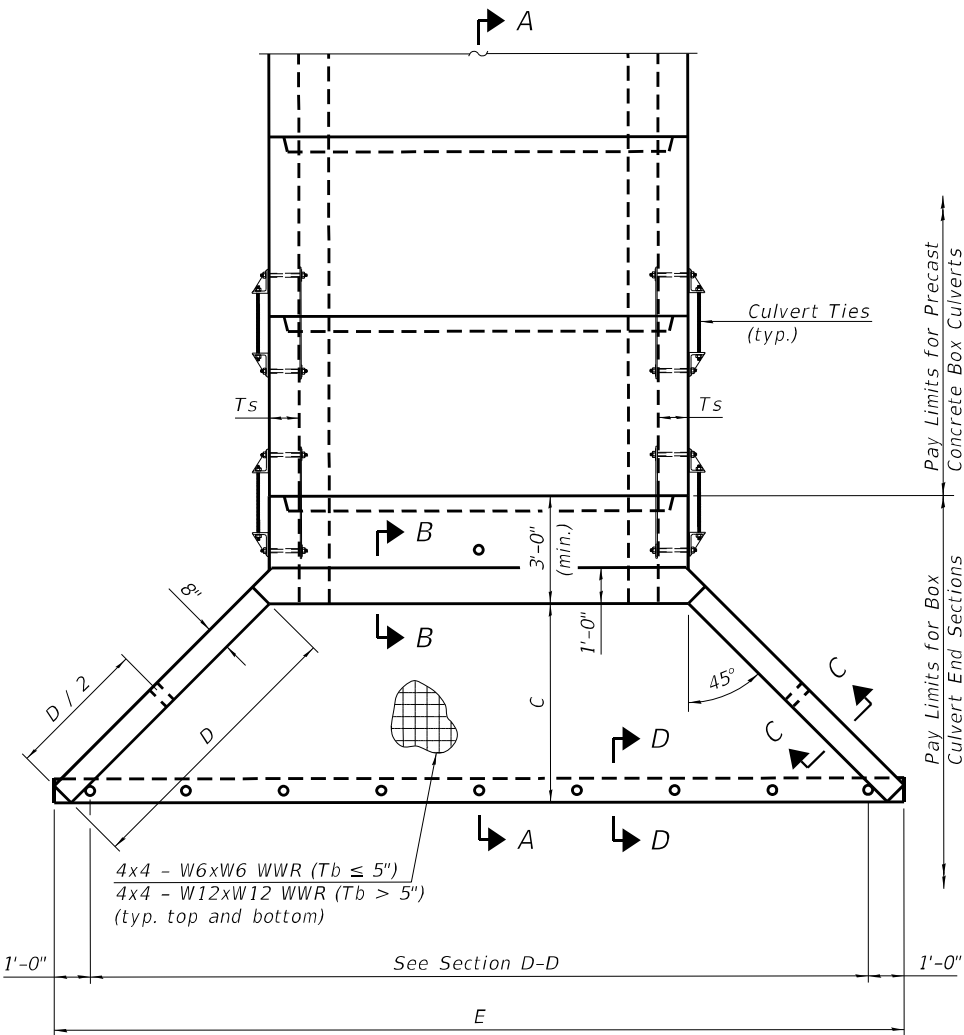
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114-116)B-2,3,4	MACOUPIN	194	88
CONTRACT NO. 72B64				
ILLINOIS FED. AID PROJECT				



END VIEW



SECTION A-A



PLAN

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than 1/2" nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included on the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.

The Contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the culvert barrel portion of the end section being lapped with reinforcement from the wingwalls or bottom slab of the end section shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

APRON END SECTION DIMENSIONS

Span (S)	Rise (R)	Tt	Tb	Ts	A	B	C	D	E	Concrete Cu. Yd.	Culvert Ties Required
3'-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-10 ⁵ / ₈ "	4'-1"	10'-4 ⁵ / ₈ "	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3'-1"	2'-1"	2'-7 ⁷ / ₈ "	3'-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2'-8"	3'-10 ³ / ₈ "	5'-6"	12'-4 ³ / ₈ "	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7 ⁷ / ₈ "	5'-2"	11'-11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-4 ¹ / ₂ "	2'-2 ¹ / ₂ "	2'-11 ³ / ₈ "	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-8 ¹ / ₂ "	3'-10"	11'-2 ³ / ₈ "	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-4 ¹ / ₂ "	2'-8 ¹ / ₂ "	3'-11 ³ / ₈ "	5'-7"	13'-8 ¹ / ₈ "	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-8 ¹ / ₂ "	5'-3"	13'-2 ³ / ₈ "	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-4 ¹ / ₂ "	3'-2 ¹ / ₂ "	4'-11 ³ / ₈ "	7'-0"	15'-8 ¹ / ₈ "	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3'-1"	4'-8 ³ / ₈ "	6'-8"	15'-2 ¹ / ₂ "	4.7	Yes
5'-0"	2'-0"	8"	7"	6"	3'-5"	2'-3"	2'-11 ³ / ₈ "	4'-2"	12'-10"	3.9	Yes
5'-0"	2'-0"	6"	6"	6"	3'-3"	2'-2"	2'-10"	4'-0"	12'-7 ¹ / ₄ "	3.5	Yes
5'-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11 ³ / ₈ "	5'-7"	14'-10 ¹ / ₈ "	4.9	Yes
5'-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5'-5"	14'-7 ¹ / ₄ "	4.5	Yes
5'-0"	4'-0"	8"	7"	6"	5'-5"	3'-3"	4'-11 ³ / ₈ "	7'-0"	16'-10 ¹ / ₈ "	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5'-3"	3'-2"	4'-9 ¹ / ₄ "	6'-9"	16'-5 ⁷ / ₈ "	5.5	Yes
5'-0"	5'-0"	8"	7"	6"	6'-5"	3'-9"	5'-11 ³ / ₈ "	8'-5"	18'-10 ³ / ₈ "	7.4	Yes
5'-0"	5'-0"	6"	6"	6"	6'-3"	3'-8"	5'-9 ¹ / ₄ "	8'-2"	18'-5 ⁷ / ₈ "	6.8	Yes
6'-0"	2'-0"	8"	7"	7"	3'-5"	2'-3"	2'-11 ³ / ₈ "	4'-2"	14'-0"	4.3	Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-10 ³ / ₈ "	4'-1"	13'-10 ³ / ₈ "	4.2	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11 ³ / ₈ "	5'-7"	16'-0 ¹ / ₈ "	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2'-8"	3'-10 ³ / ₈ "	5'-6"	15'-10 ³ / ₈ "	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5'-5"	3'-3"	4'-11 ³ / ₈ "	7'-0"	18'-0 ¹ / ₈ "	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-10 ³ / ₄ "	6'-11"	17'-10 ³ / ₄ "	6.5	Yes
6'-0"	5'-0"	8"	7"	7"	6'-5"	3'-9"	5'-11 ³ / ₈ "	8'-5"	20'-0 ¹ / ₈ "	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3'-8"	5'-10 ³ / ₄ "	8'-4"	19'-10 ³ / ₄ "	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11 ¹ / ₂ "	9'-10"	22'-0 ¹ / ₂ "	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7'-4"	4'-2"	6'-10 ³ / ₄ "	9'-9"	21'-10 ³ / ₄ "	9.3	Yes
7'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 ³ / ₈ "	4'-2"	15'-2"	4.9	Yes
7'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 ³ / ₈ "	5'-7"	17'-2 ¹ / ₈ "	6.1	Yes
7'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 ³ / ₈ "	7'-0"	19'-2 ¹ / ₈ "	7.4	Yes
7'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 ³ / ₈ "	8'-5"	21'-2 ¹ / ₈ "	8.9	Yes
7'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 ¹ / ₂ "	9'-10"	23'-2 ¹ / ₄ "	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 ³ / ₈ "	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 ³ / ₈ "	5'-7"	18'-2 ¹ / ₈ "	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 ³ / ₈ "	7'-0"	20'-2 ¹ / ₈ "	7.8	Yes
8'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 ³ / ₈ "	8'-5"	22'-2 ¹ / ₈ "	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 ¹ / ₂ "	9'-10"	24'-2 ¹ / ₄ "	11.0	Yes
9'-0"	2'-0"	9"	9"	9"	3'-6"	2'-3"	3'-0 ³ / ₄ "	4'-4"	17'-6 ⁷ / ₈ "	6.2	Yes
9'-0"	3'-0"	9"	9"	9"	4'-6"	2'-9"	4'-0 ³ / ₄ "	5'-9"	19'-6 ⁷ / ₈ "	7.5	Yes
9'-0"	4'-0"	9"	9"	9"	5'-6"	3'-3"	5'-0 ³ / ₄ "	7'-2"	21'-6 ⁷ / ₈ "	9.0	Yes
9'-0"	5'-0"	9"	9"	9"	6'-6"	3'-9"	6'-0 ³ / ₈ "	8'-7"	23'-7"	10.6	Yes
9'-0"	6'-0"	9"	9"	9"	7'-6"	4'-3"	7'-0 ³ / ₈ "	9'-11"	25'-5 ³ / ₈ "	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3'-7"	2'-4"	3'-1 ¹ / ₂ "	4'-5"	18'-10 ¹ / ₄ "	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2'-10"	4'-1 ¹ / ₂ "	5'-10"	20'-10 ¹ / ₄ "	8.6	No
10'-0"	4'-0"	10"	10"	10"	5'-7"	3'-4"	5'-1 ¹ / ₂ "	7'-3"	22'-10 ³ / ₈ "	10.2	Yes
10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-10"	6'-1 ¹ / ₂ "	8'-8"	24'-10 ³ / ₈ "	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7'-7"	4'-4"	7'-1 ¹ / ₂ "	10'-1"	26'-10 ³ / ₈ "	13.9	Yes
11'-0"	2'-0"	11"	11"	11"	3'-8"	2'-4"	3'-2 ¹ / ₈ "	4'-7"	20'-3 ¹ / ₈ "	8.2	No
11'-0"	3'-0"	11"	11"	11"	4'-8"	2'-10"	4'-2 ¹ / ₈ "	6'-0"	22'-3 ¹ / ₈ "	9.8	No
11'-0"	4'-0"	11"	11"	11"	5'-8"	3'-4"	5'-2 ¹ / ₄ "	7'-4"	24'-1 ³ / ₄ "	11.5	Yes
11'-0"	5'-0"	11"	11"	11"	6'-8"	3'-10"	6'-2 ¹ / ₄ "	8'-9"	26'-1 ³ / ₄ "	13.3	Yes
11'-0"	6'-0"	11"	11"	11"	7'-8"	4'-4"	7'-2 ¹ / ₄ "	10'-2"	28'-1 ³ / ₈ "	15.5	Yes
12'-0"	2'-0"	12"	12"	12"	3'-9"	2'-5"	3'-3 ³ / ₈ "	4'-8"	21'-6 ¹ / ₂ "	9.3	No
12'-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3 ³ / ₈ "	6'-1"	23'-6 ¹ / ₂ "	11.1	No
12'-0"	4'-0"	12"	12"	12"	5'-9"	3'-5"	5'-3 ³ / ₈ "	7'-6"	25'-6 ³ / ₈ "	13.0	Yes
12'-0"	5'-0"	12"	12"	12"	6'-9"	3'-11"	6'-3 ³ / ₈ "	8'-11"	27'-6 ³ / ₈ "	14.1	Yes
12'-0"	6'-0"	12"	12"	12"	7'-9"	4'-5"	7'-3 ³ / ₈ "	10'-4"	29'-6 ³ / ₈ "	17.4	Yes

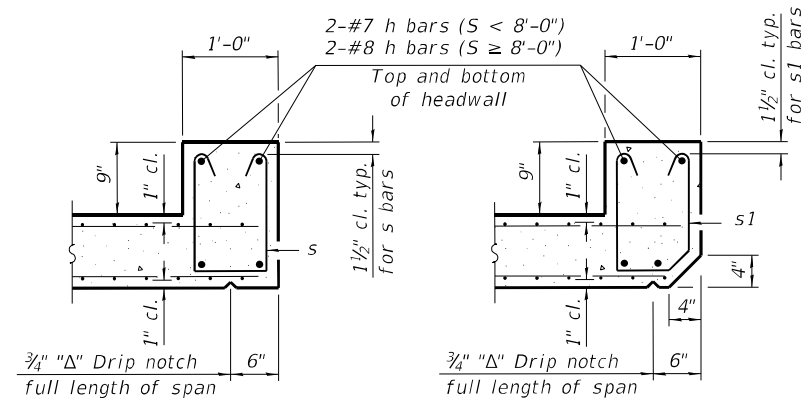
Note: Two sets of apron end section dimensions are shown above for some box culvert sizes due to the top and bottom slabs having different thicknesses per ASTM C 1577 for design fill heights less than 2 ft. (Sheet 1 of 2)

SCB-AES

2-17-2017

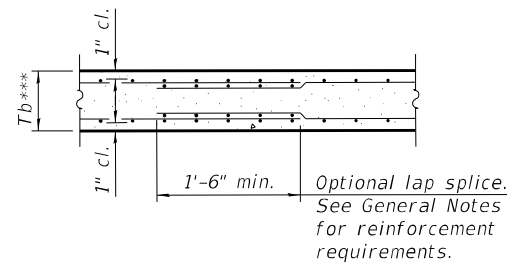
USER NAME = cancel DRAWN = PLOT SCALE = 100.1906' / in. PLOT DATE = 8/18/2021	DESIGNED = CHECKED = DATE =	REVISED = REVISED = REVISED = REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS - STRUCTURE NO.	F.A.P RTE. = 325 SECTION = (114.116)B-2,3,4 COUNTY = MACOUPIN ILLINOIS FED. AID PROJECT	TOTAL SHEETS = 194 SHEET NO. = 90 CONTRACT NO. 72B64
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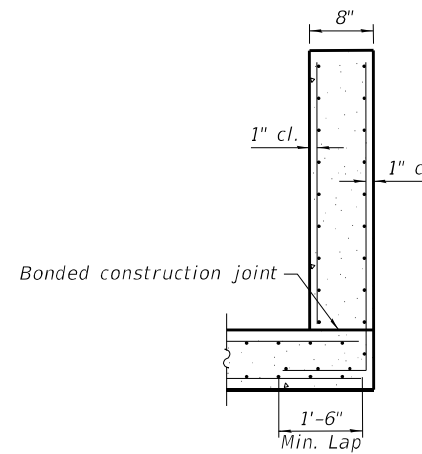


SECTION B-B
(Top slab at downstream end)

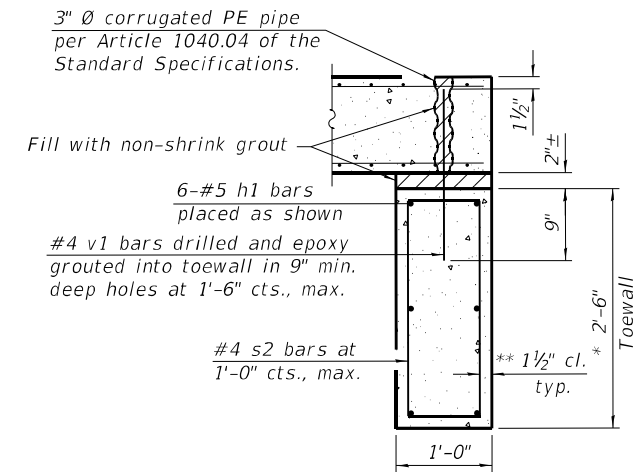
SECTION B-B
(Top slab at upstream end)



SECTION B-B
(Bottom Slab)

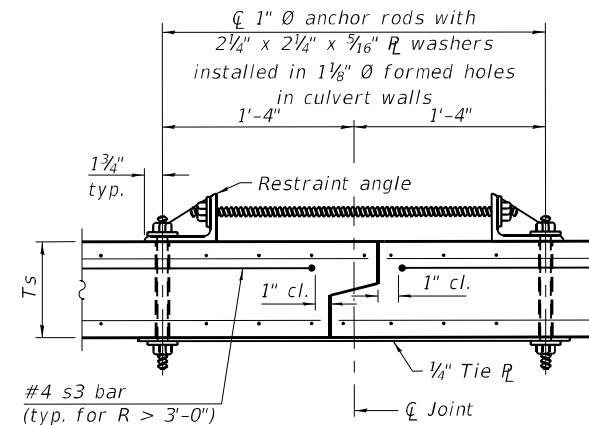


SECTION C-C



SECTION D-D

*** This dimension shall be increased by 2" for CIP construction.



SECTION F-F
(Showing culvert tie details)

TOEWALL CONSTRUCTION SEQUENCE

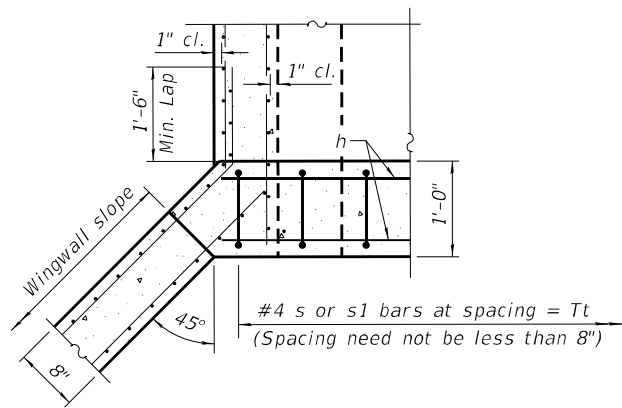
1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

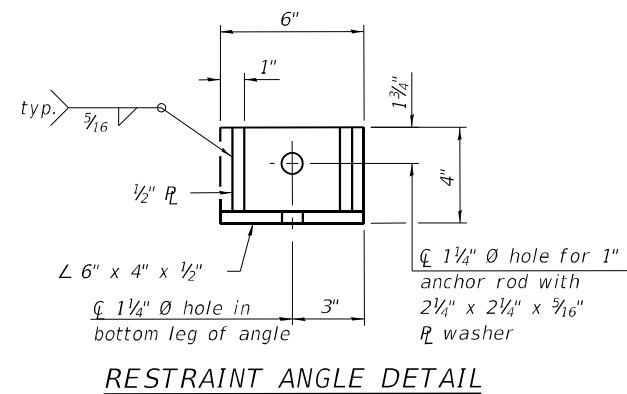
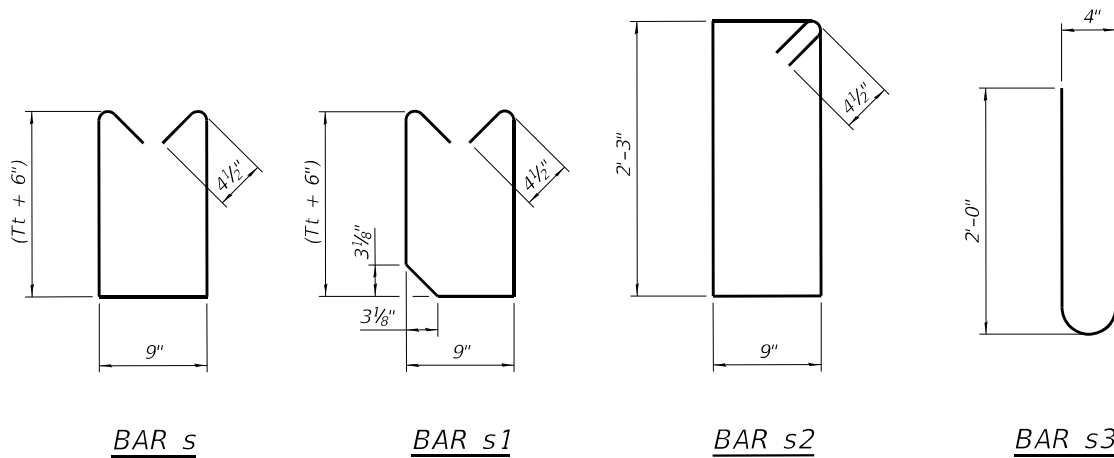
** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.

Notes:

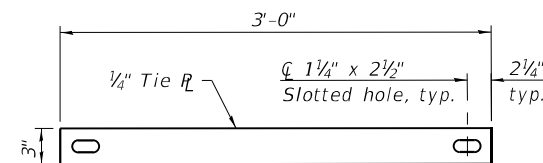
1" \emptyset anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 3/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.



SECTION E-E



RESTRAINT ANGLE DETAIL



TIE PLATE DETAIL

(Sheet 2 of 2)

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SCB-AES

2-17-2017

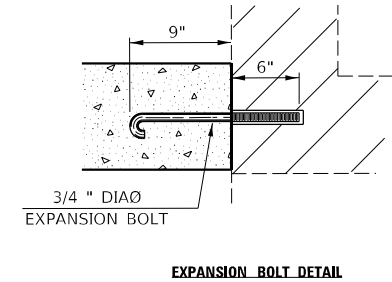
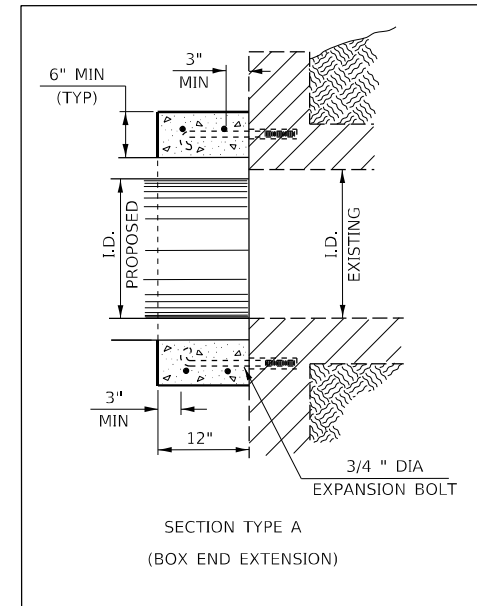
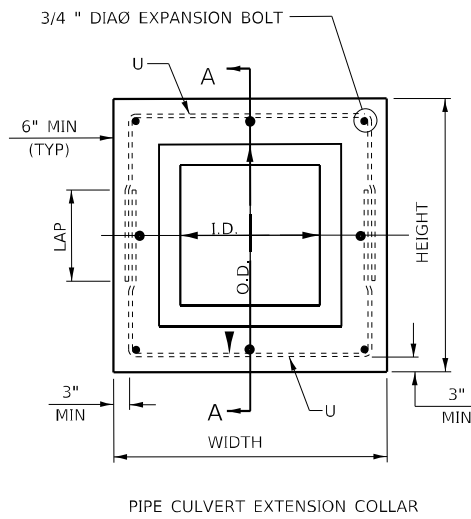
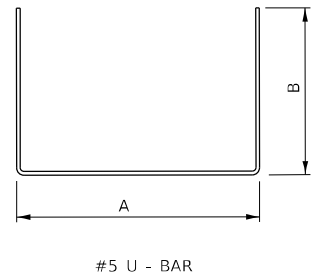
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DRAWN -	REVISED -	
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PLOT DATE = 8/18/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PRECAST CONCRETE BOX CULVERT APRON END
SECTION DETAILS - STRUCTURE NO.**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	91
CONTRACT NO. 72B64				
ILLINOIS FED. AID PROJECT				



NOTES:

- EXPANSION BOLTS SHALL CONSIST OF SELF DRILLING EXPANSION SHIELDS AND 3/4" DIAØ HOOKED EXPANSION BOLTS. HOOKED BOLTS SHALL EXTEND A MINIMUM OF 9" INTO NEW CONCRETE. MINIMUM CERTIFIED PROOF LOAD - 4,080 LBS.
- USE MINIMUM OF 1 (ONE) EXPANSION BOLT AT EACH CORNER.

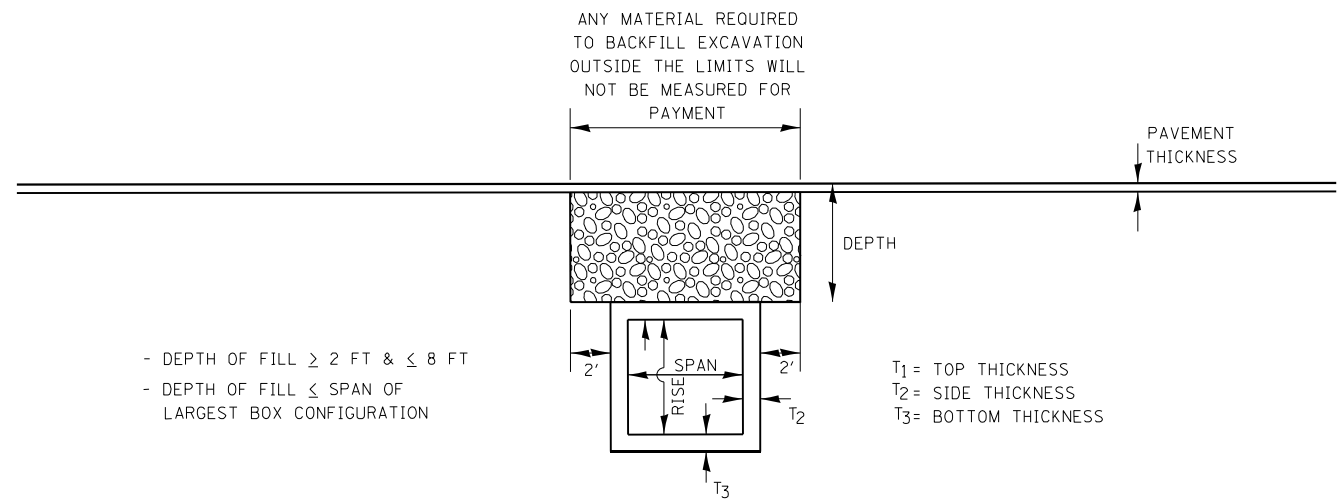
STATION	SECTION TYPE	SKEW	EXISTING CULVERT SIZE	PROPOSED CULVERT		COLLAR		REINFORCEMENT BARS								EXPANSION BOLTS 3/4"	CLASS S1 CONCRETE COLLAR YD ³		
				I.D.	O.D.	HEIGHT	WIDTH	S BAR			U BAR							LB	
								NO.	SIZE	LENGTH	NO.	SIZE	A	B	LAP	LENGTH	LB	EACH	
623+26.35	A	0	4X4 BOX	48"	63"	75"	75"	-	-	-	4	5	69"	43.5"	1'-6"	156"	54.2	8	0.50
TOTAL																	54.2	8	0.50

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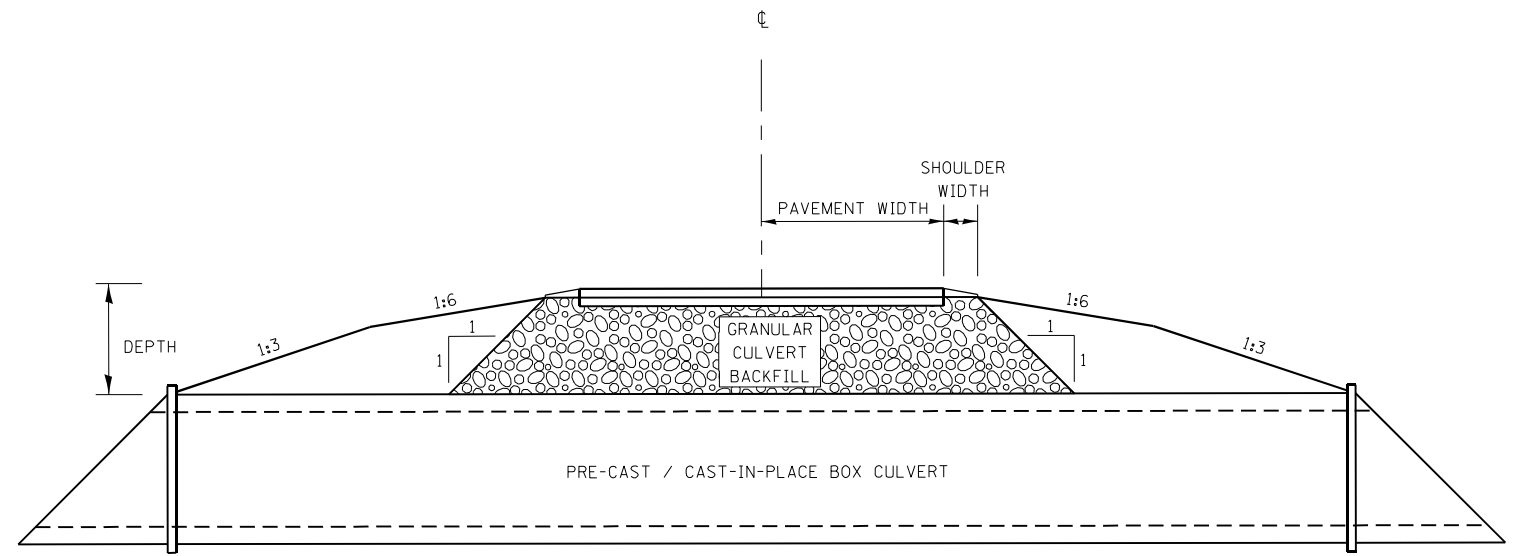
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

<p align="center">CONCRETE COLLAR AND CULVERT EXTENSION DETAILS</p>		F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		325	(114.116)B-2,3,4	MACOUPIN	194	92
SCALE:		SHEET	OF	SHEETS	STA.	TO STA.
						ILLINOIS FED. AID PROJECT



* NOTE: WILL NEED MODIFICATION FOR MULTICELL BOX CULVERTS

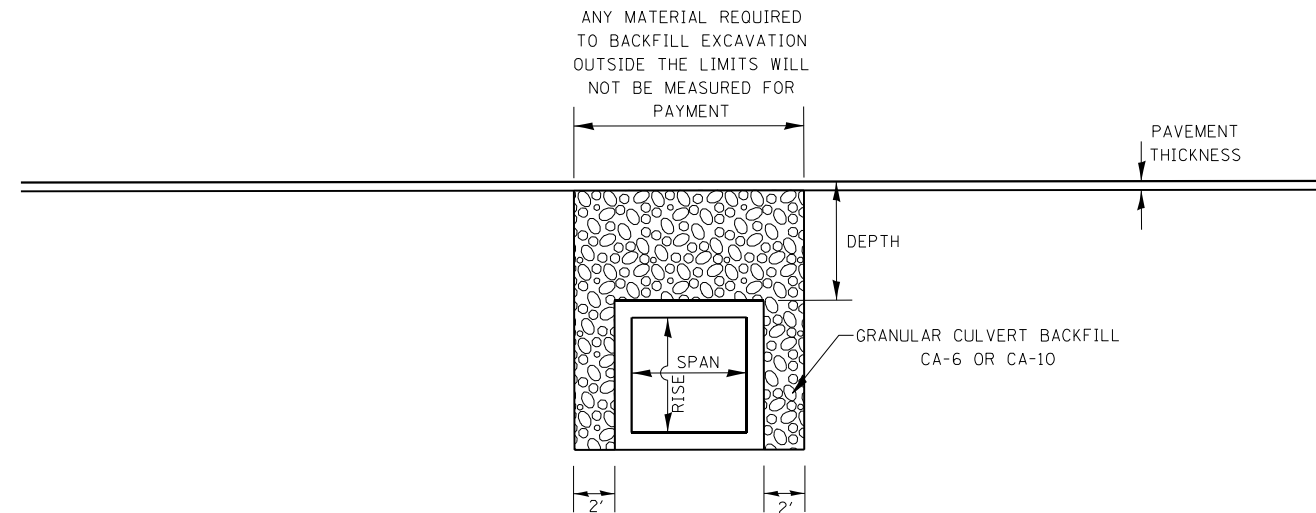
PROFILE GRANULAR BACKFILL DETAIL FOR NEW ALIGNMENTS & CONSTRUCTION



- DEPTH OF FILL \geq 2 FT & \leq 8 FT
- DEPTH OF FILL \leq SPAN OF LARGEST BOX CONFIGURATION

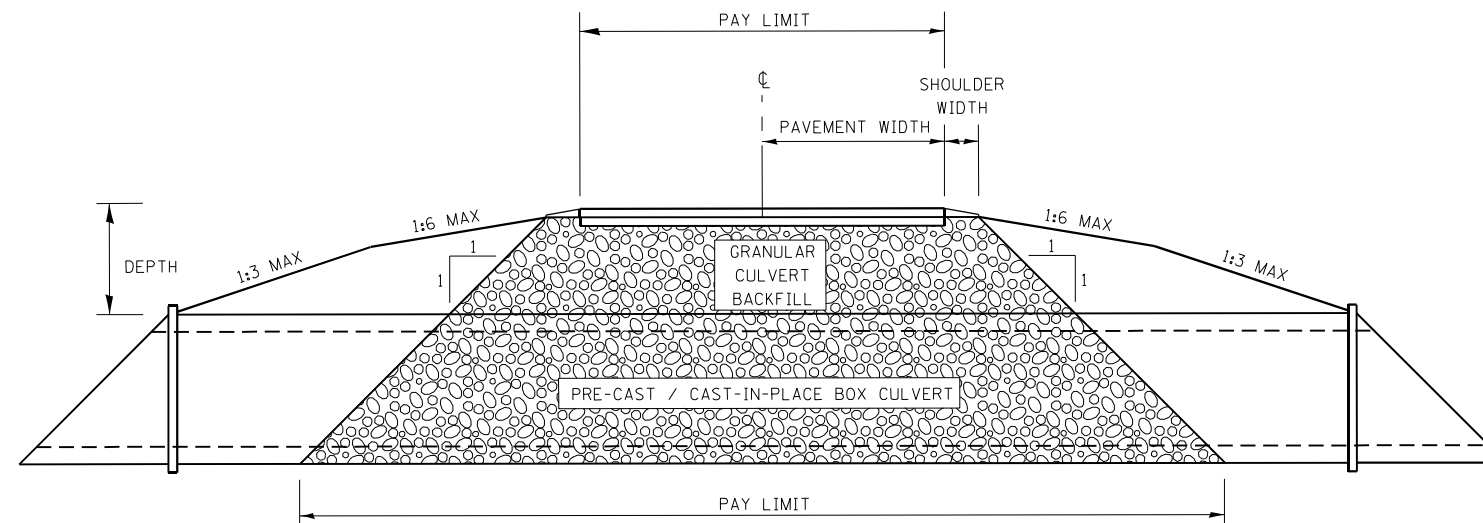
CROSS SECTION GRANULAR BACKFILL DETAIL FOR NEW ALIGNMENTS & CONSTRUCTION

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pr:\idot-pw.bentley.com\PIWIDOT\Documents\IDOT Offices\District 6\Projects\0672864\CD\DRAWING\0590001\0672864-sh.dwg	0590001\0672864-sh.dwg	DRAWN - BKL	REVISED -						325	(114,116)B-2,3,4	MACOUPIN	194	93
Granular Backfill Details.dgn	PLOT SCALE = 48.0763' / in.	CHECKED -	REVISED -		CONTRACT NO. 72B64				ILLINOIS FED. AID PROJECT				
	PLOT DATE = 8/18/2021	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.			



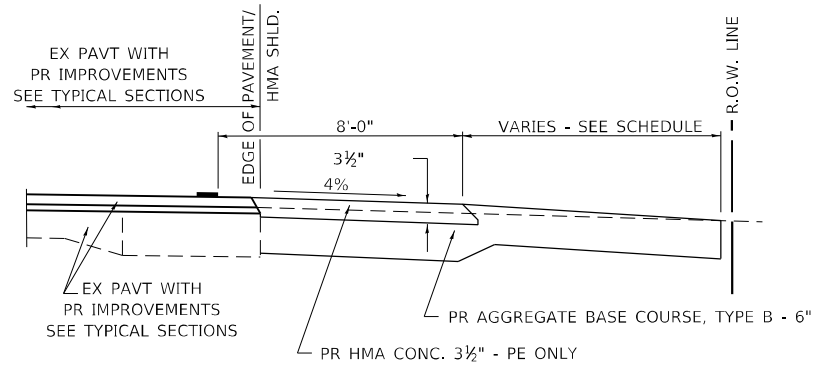
- DEPTH OF FILL \geq 2 FT & \leq 8 FT
- DEPTH OF FILL \leq SPAN OF LARGEST BOX CONFIGURATION

**PROFILE GRANULAR BACKFILL DETAIL
FOR EXISTING ALIGNMENTS & CONSTRUCTION**

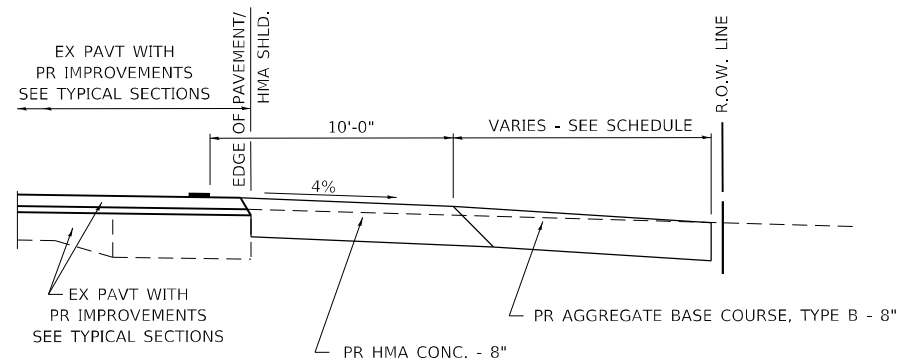


**CROSS SECTION GRANULAR BACKFILL DETAIL
FOR EXISTING ALIGNMENTS & CONSTRUCTION**

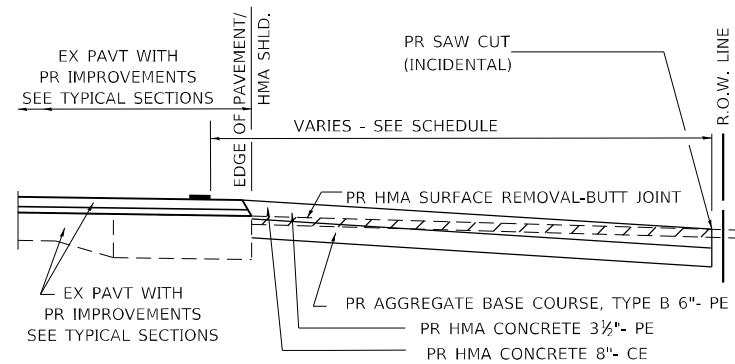
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pr:\idot-pw.bentley.com\PWIDOT\Documents\IDOT Offices\District 6\Projects\0672864\CAD\DRAWN 0590001\BLSheets\0672864-sh.dwg	DRAWN - BKL	CHECKED -	REVISED -					325	(114,116)B-2,3,4	MACOUPIN	194	94
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	PLOT DATE = 8/18/2021				SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	



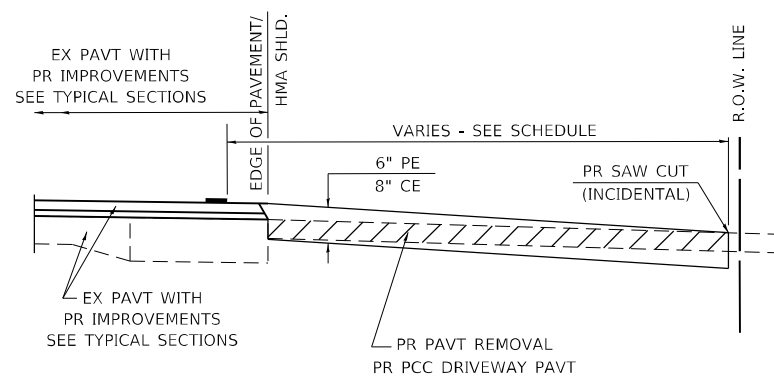
SECTION A-A FOR EX EARTH/AGGREGATE FE & PE



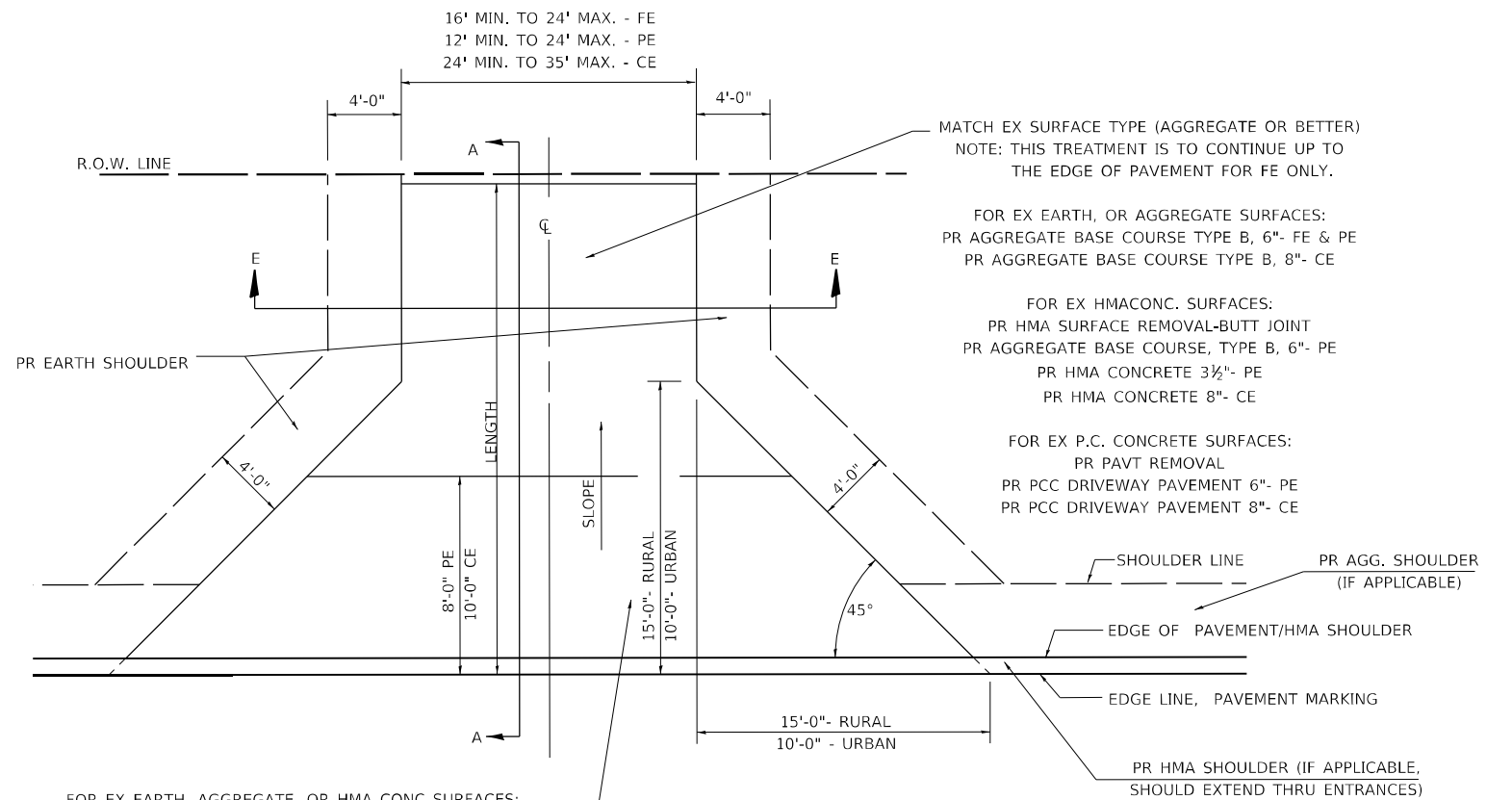
SECTION A-A FOR EX EARTH/AGGREGATE CE



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 6\"/>

FOR P.C. CONCRETE SURFACES:
 PR PAVT REMOVAL
 PR PCC DRIVEWAY PAVT 6\"/>

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.

HMA 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 HMA CONCRETE PROPOSED FOR THE IMPROVEMENT IS THICKER THAN 3 INCHES AND REQUIRE PLACEMENT IN MORE THAN ONE LIFT. THE BOTTOM LIFT(S) SHALL MEET THE REQUIREMENTS OF HMA BASE COURSE IN SECTION 406 OF THE STANDARD SPECIFICATIONS AND THE TOP LIFT OF 2 INCHES SHALL MEET THE REQUIREMENTS OF HMA 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.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

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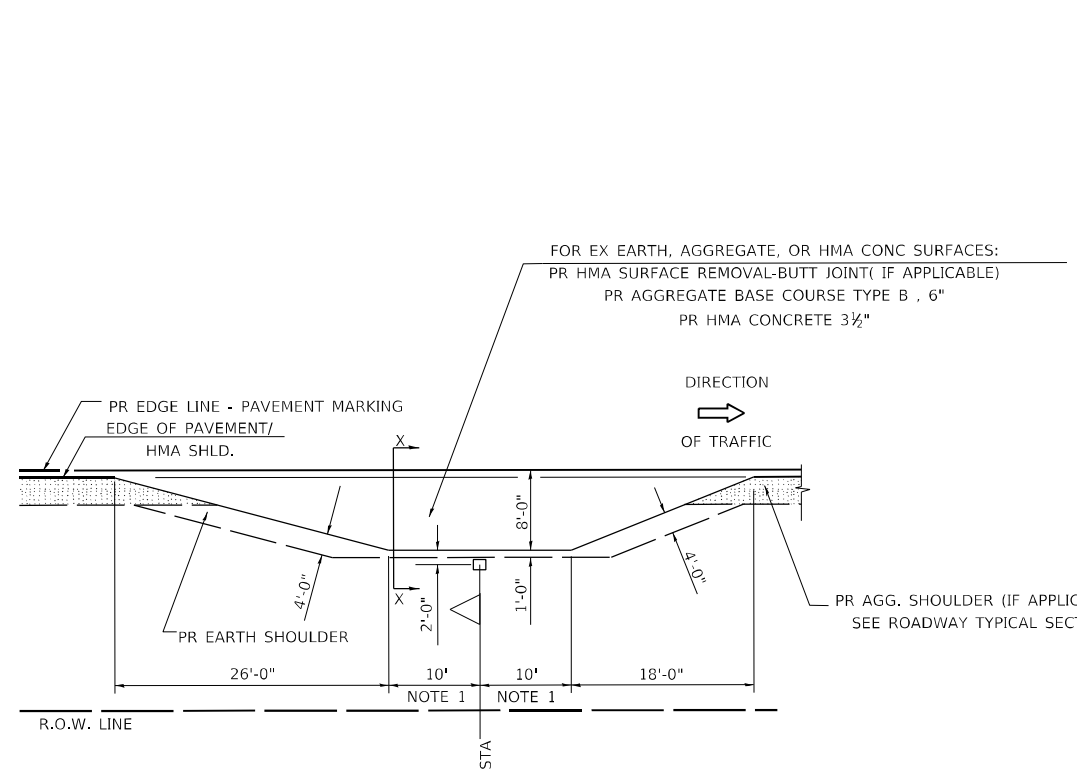
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DISTRICT 6 DETAILS FOR RURAL /URBAN ENTRANCE &
 MAILBOX TURNOUT W/O CONC GUTTER (3R - PROJECTS)**

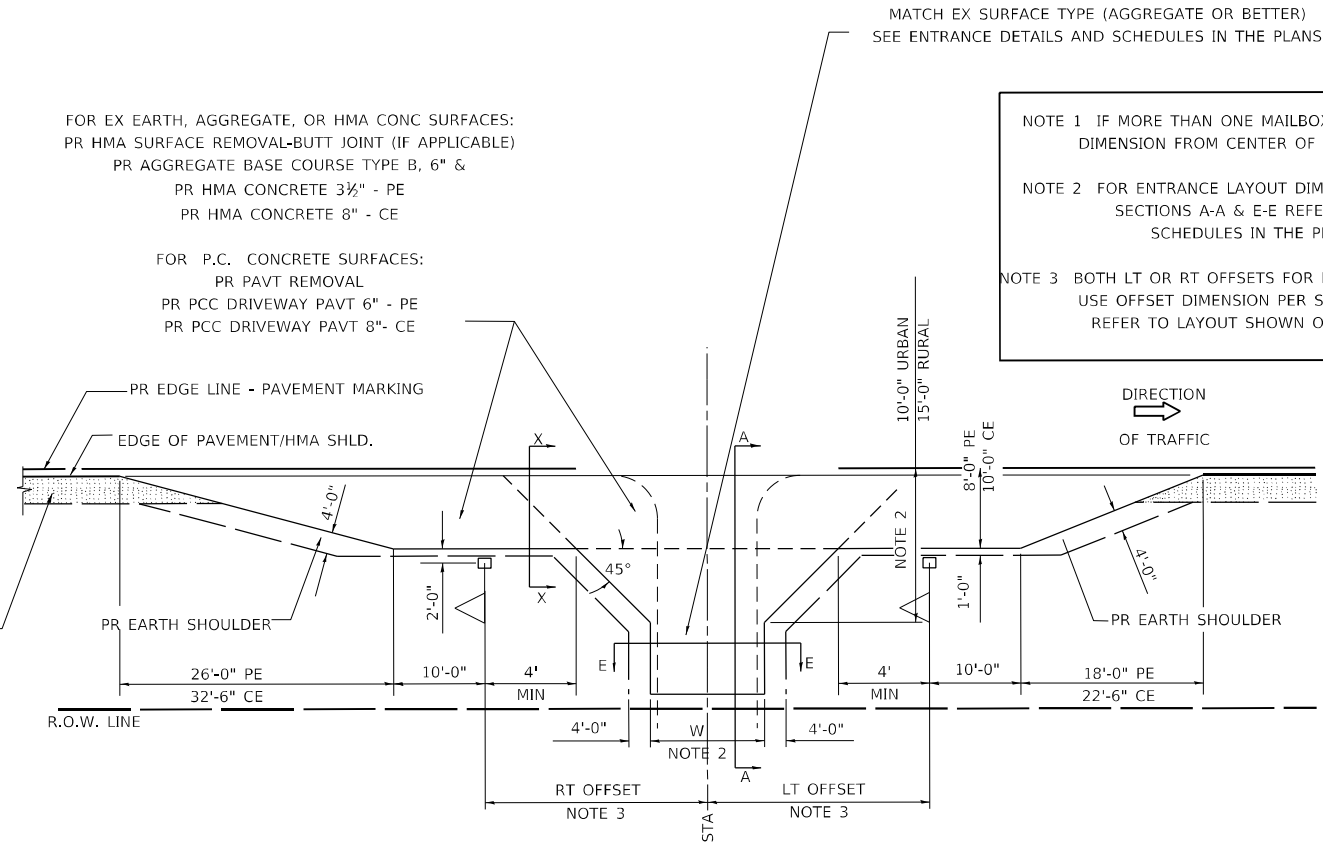
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	95
CONTRACT NO. 72B64				
ILLINOIS FED. AID PROJECT				

DETAILS OF MAILBOX TURNOUTS



PLAN - MAILBOX TURNOUTS



PLAN - COMBINED MAILBOX TURNOUT WITH TRAILING OR LEADING 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.

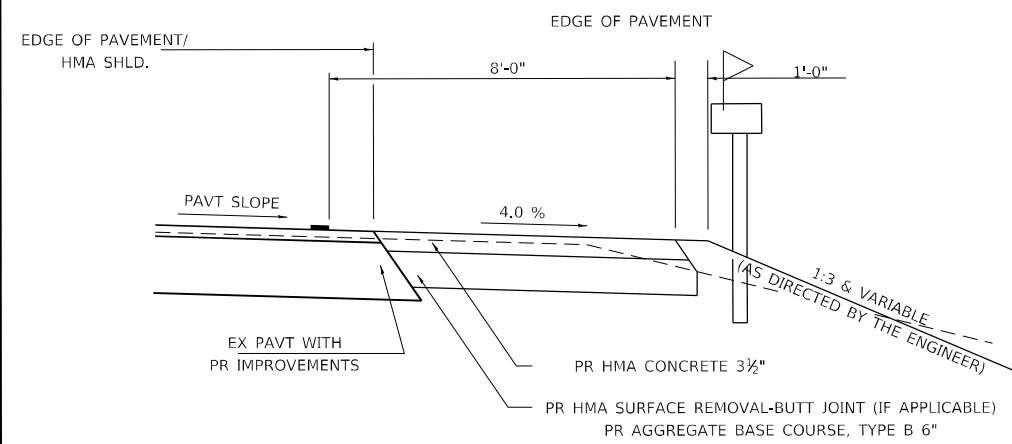
NOTE 3 BOTH LT OR RT OFFSETS FOR MAILBOX SHOWN USE OFFSET DIMENSION PER SCHEDULE AND REFER TO LAYOUT SHOWN ON THE PLAN.

FOR EX EARTH, AGGREGATE, OR HMA CONC SURFACES:
 PR HMA SURFACE REMOVAL-BUTT JOINT (IF APPLICABLE)
 PR AGGREGATE BASE COURSE TYPE B, 6" &
 PR HMA CONCRETE 3½" - PE
 PR HMA CONCRETE 8" - CE

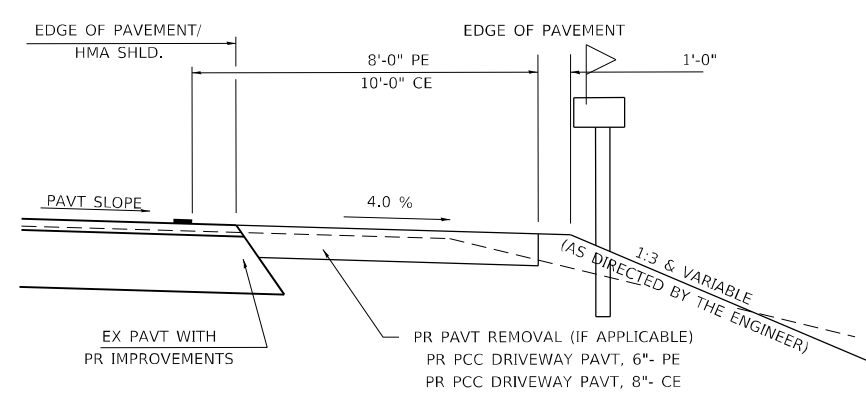
FOR P.C. CONCRETE SURFACES:
 PR PAVT REMOVAL
 PR PCC DRIVEWAY PAVT 6" - PE
 PR PCC DRIVEWAY PAVT 8" - CE

FOR EX EARTH, AGGREGATE, OR HMA CONC SURFACES:
 PR HMA SURFACE REMOVAL-BUTT JOINT (IF APPLICABLE)
 PR AGGREGATE BASE COURSE TYPE B, 6" &
 PR HMA CONCRETE 3½"

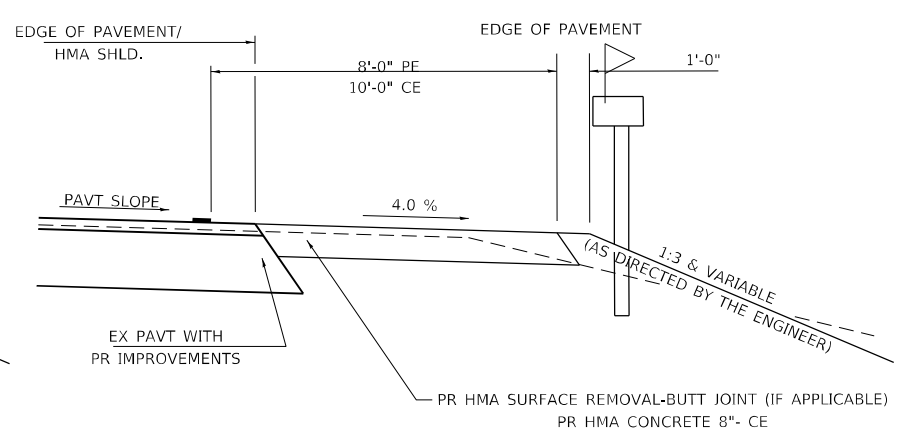
MATCH EX SURFACE TYPE (AGGREGATE OR BETTER)
 SEE ENTRANCE DETAILS AND SCHEDULES IN THE PLANS



**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**

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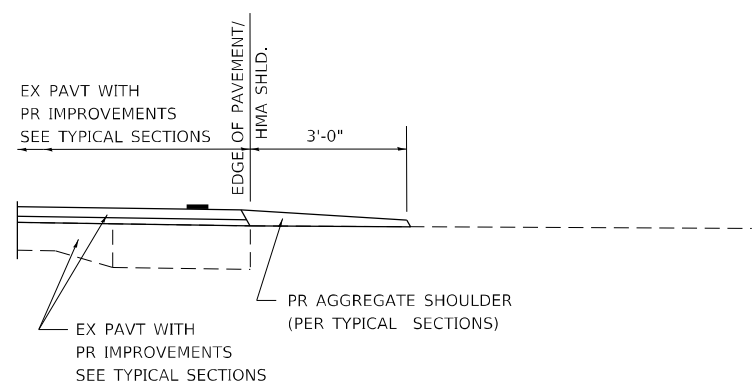
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PLOT DATE = 8/18/2021		REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

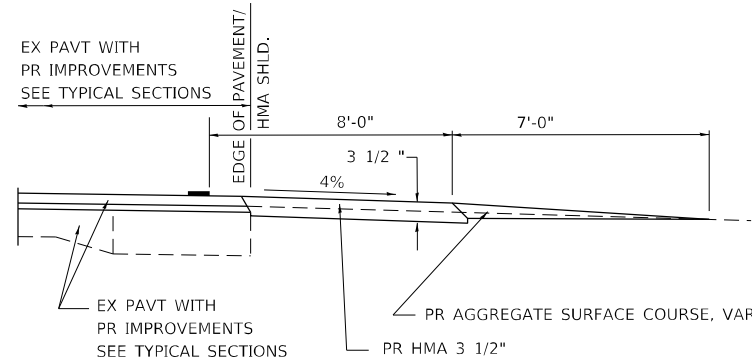
**DISTRICT 6 DETAILS FOR RURAL /URBAN ENTRANCE &
 MAILBOX TURNOUT W/O CONC GUTTER (3R - PROJECTS)**

SCALE: SHEET OF SHEETS STA. TO STA.

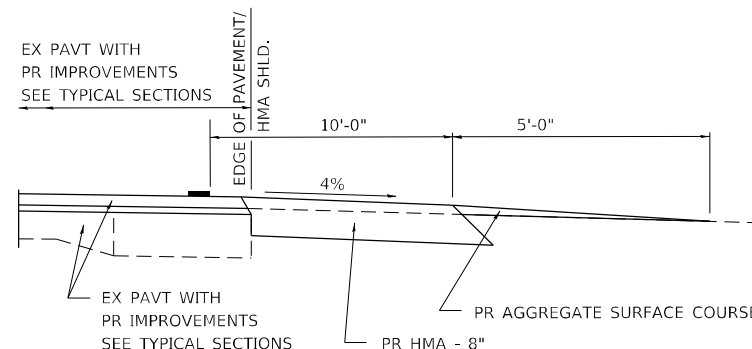
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	96
CONTRACT NO. 72B64				
ILLINOIS FED. AID PROJECT				



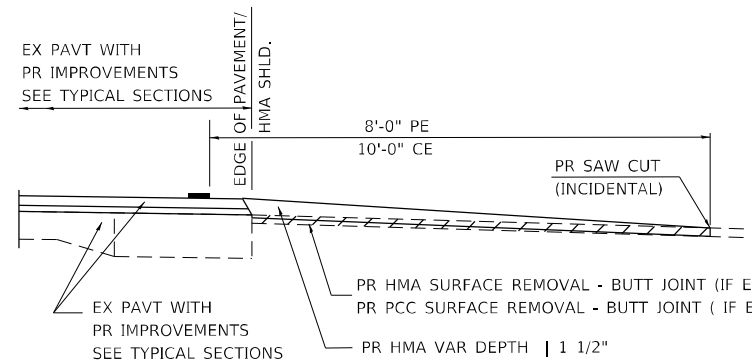
SECTION A-A FOR EX EARTH/ AGGREGATE FE



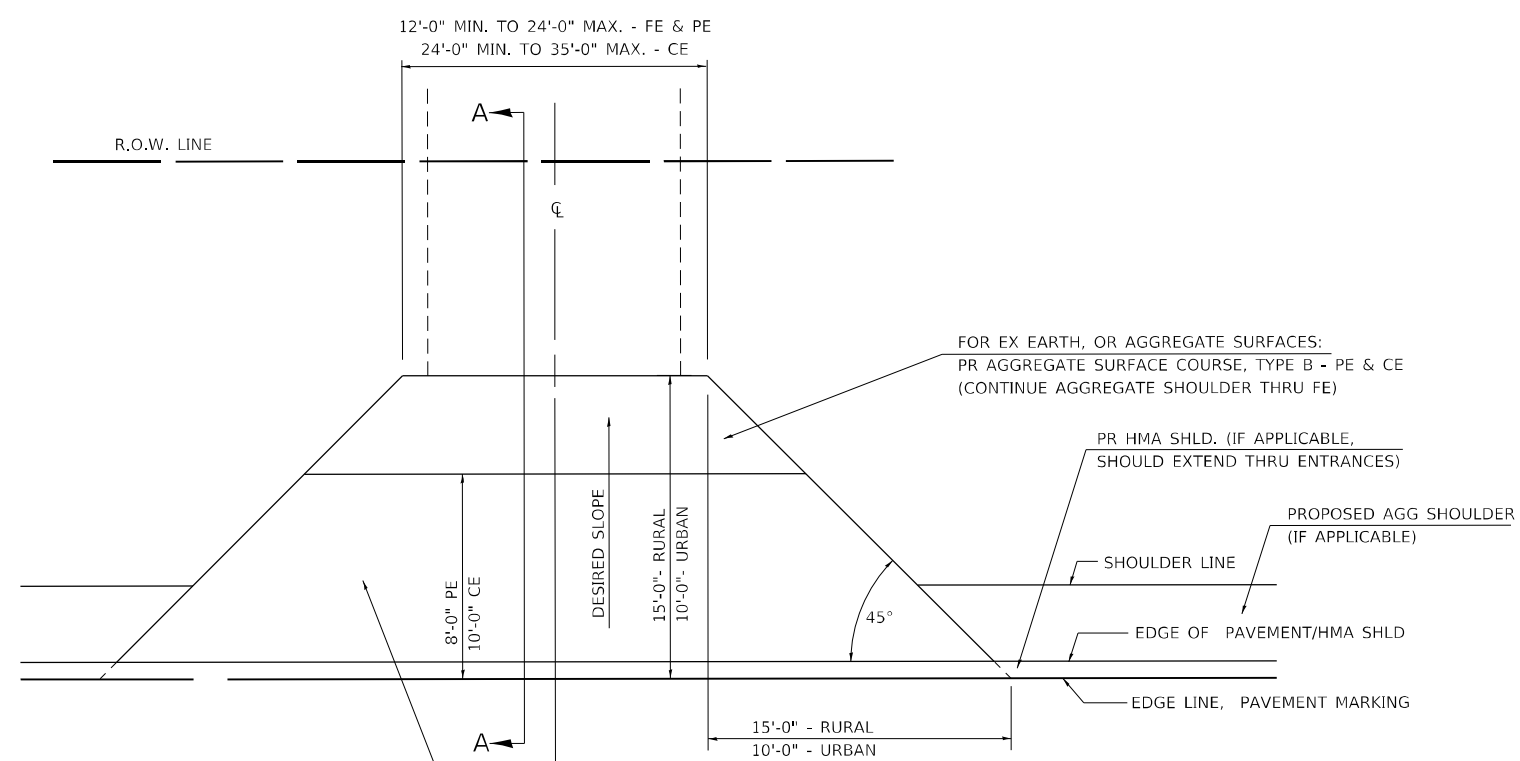
SECTION A-A FOR EX EARTH/AGGREGATE PE



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



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



FOR EX EARTH OR AGGREGATE SURFACES:
 PR HMA SURFACE REMOVAL (IF APPLICABLE)
 PR AGGREGATE SHOULDER THRU - FE
 PR HMA CONCRETE 3 1/2" - PE
 PR HMA CONCRETE 8" - CE

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

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

FOR EX EARTH, OR AGGREGATE SURFACES:
 PR AGGREGATE SURFACE COURSE, TYPE B - PE & CE
 (CONTINUE AGGREGATE SHOULDER THRU FE)

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.

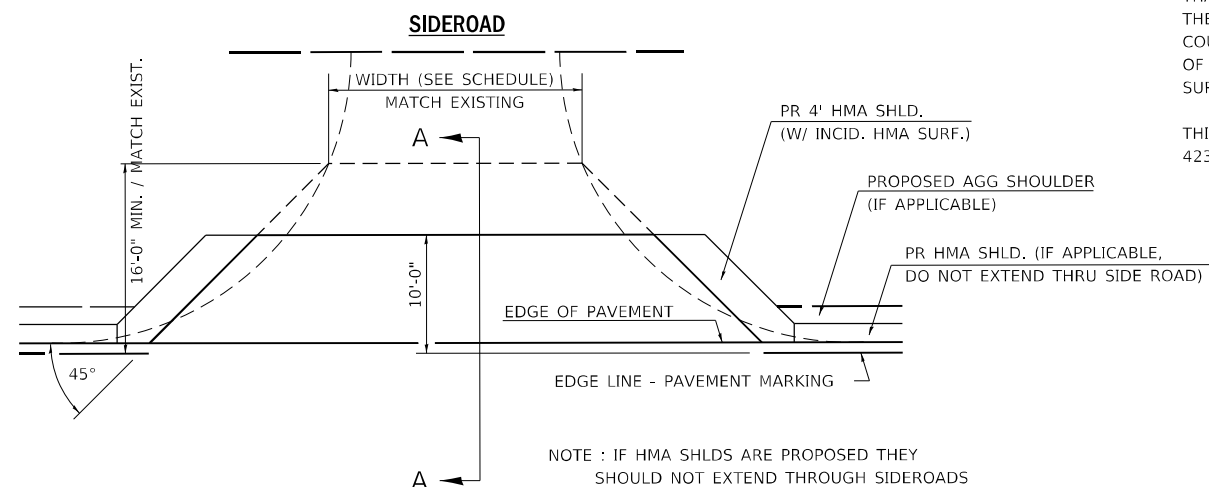
ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

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

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

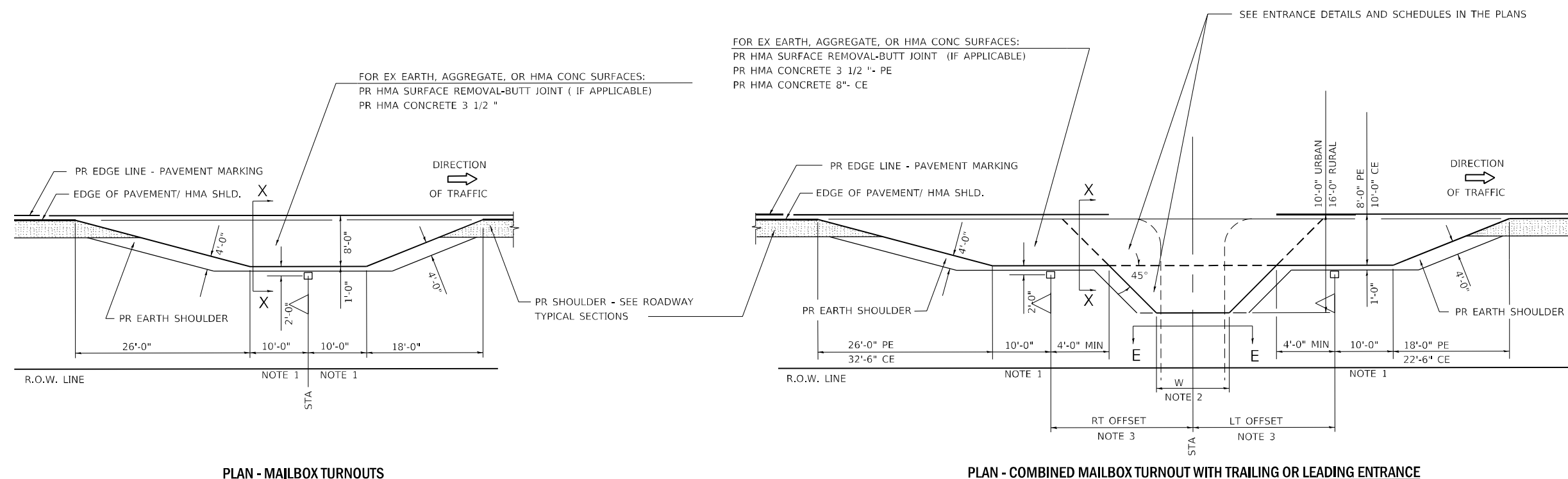
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.



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

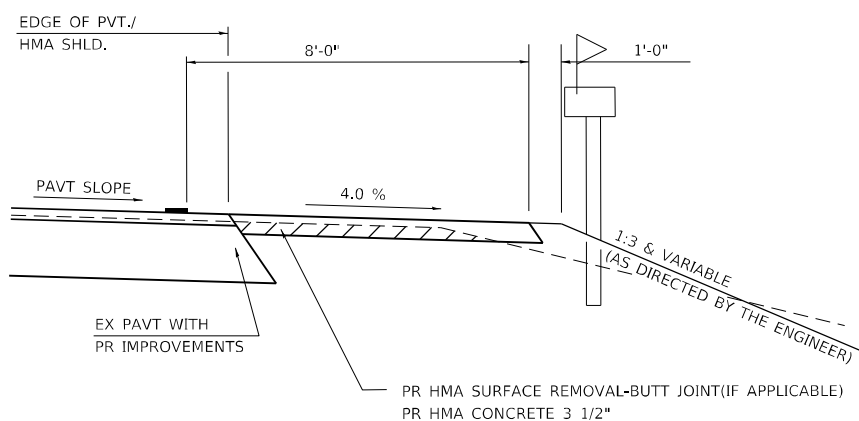
FILE NAME =	USER NAME = cancals	DESIGNED -	REVISED - 2/19/03 JCN	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DIST. 6 DETAILS FOR RURAL/URBAN ENT., MAILBOX TURNOUT & SIDEROADS W/O CONC. GUTTER (3P-PROJ.)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pww\idiot-pw.bentley.com\PWIDOT\Documents\DOT Office\District 6\Projects\ID672B64\CADData\SN 0590001\CAD\sheet\DRAWN\Ent_Details.dgn\CADD						REVISED - 4/01/04 JCN	325	(114,116)B-2,3,4	MACOUPIN	194	97
ENT PPP.DGN						REVISED -	CONTRACT NO. 72B64				
Traffic Control						REVISED -	ILLINOIS FED. AID PROJECT				
PLOT SCALE = 100.1908' / in.		CHECKED - JCN	DATE - FEBRUARY 23, 1999	SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	

DETAILS OF MAILBOX TURNOUTS



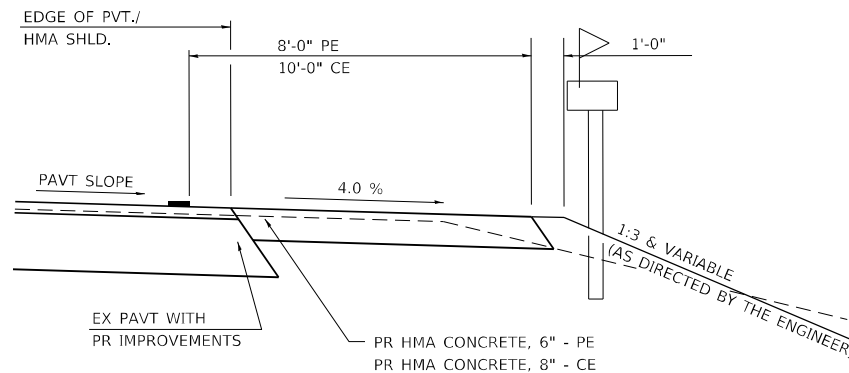
PLAN - MAILBOX TURNOUTS

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 HMA 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 HMA 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 INCHES
UNLESS OTHERWISE SHOWN.

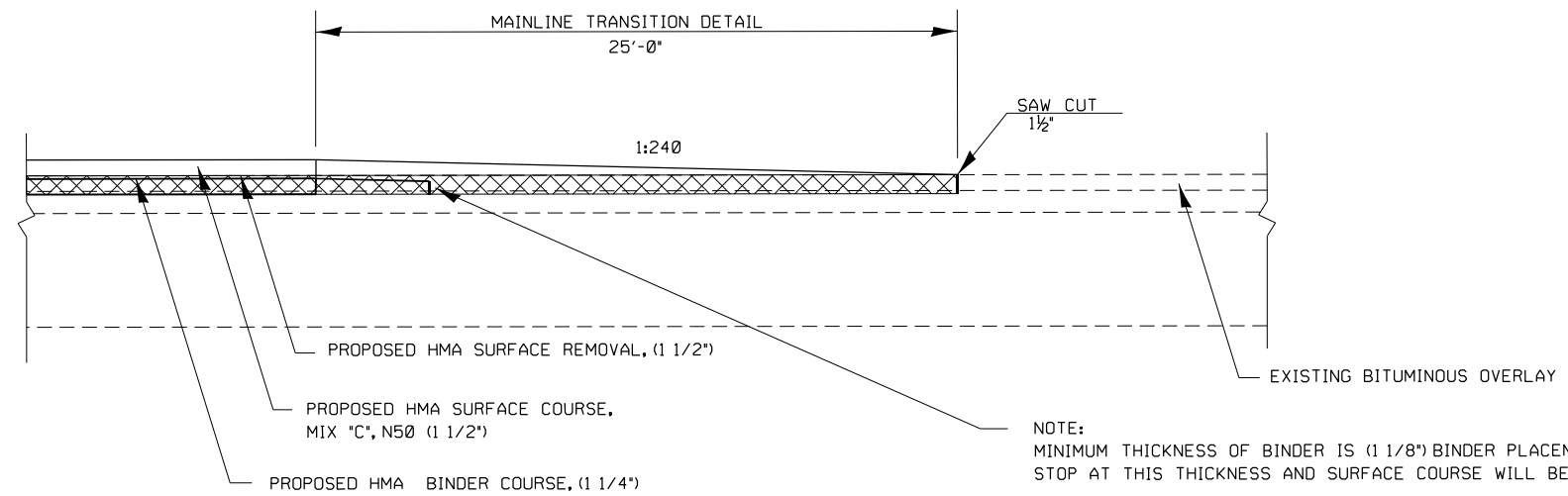
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ENT PPP.DGN		DATE - FEBRUARY 23, 1999	REVISED -
Traffic Control			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	98
CONTRACT NO. 72B64				
ILLINOIS FED. AID PROJECT				



MAINLINE TRANSITION DETAIL

MODEL: Traffic Control 1
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	DRAWN -	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 8/19/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINLINE TRANSITION DETAILS

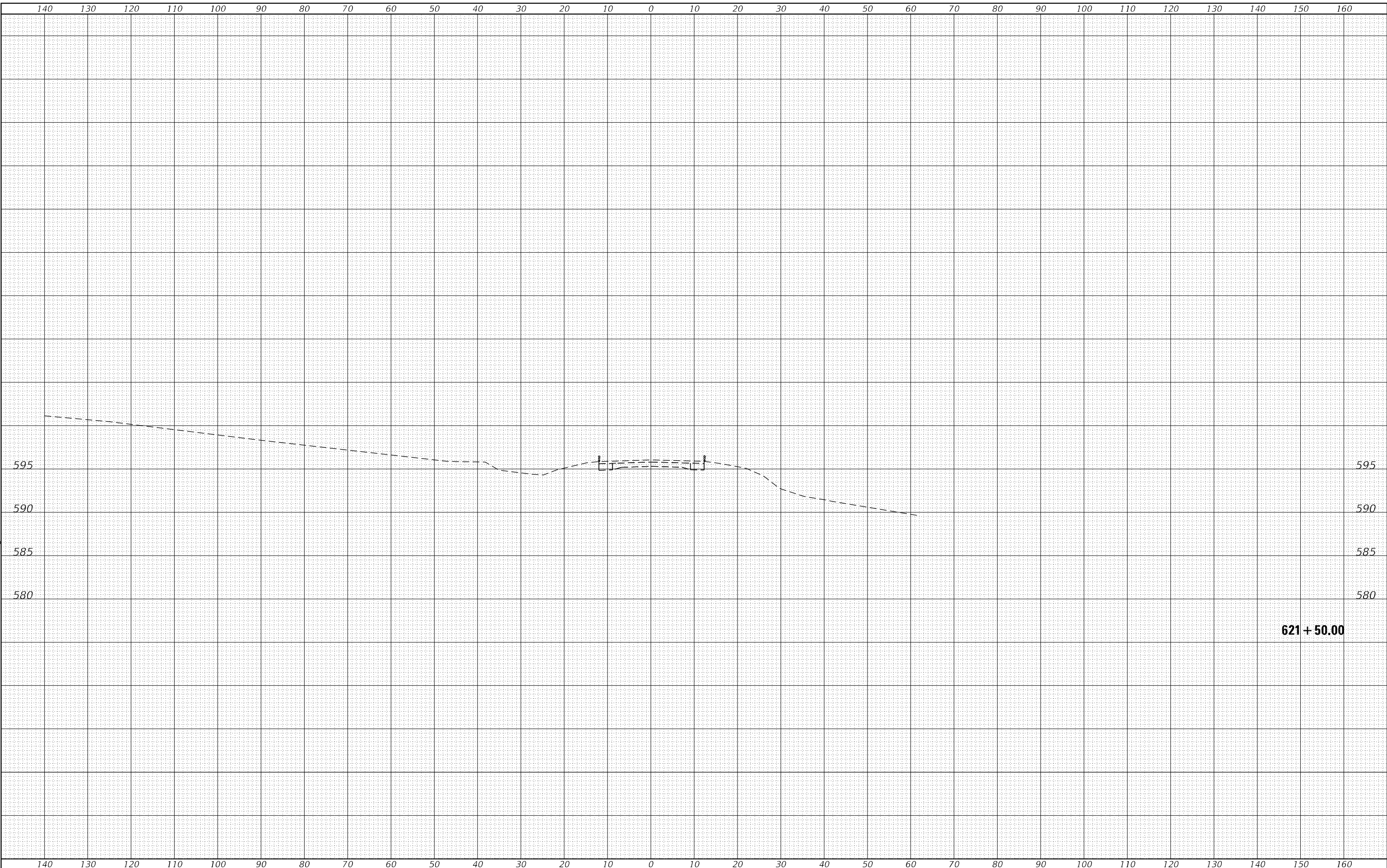
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	(114,116)B-2,3,4	MACOUPIN	194	99
CONTRACT NO. 72B64				
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY NO.	SURVEYED	DATE
	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

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USER NAME = cancels	DESIGNED -	REVISID -
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PLOT DATE = 8/18/2021	CHECKED -	REVISID -
	DATE -	REVISID -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTION		SCALE:	SHEET	OF	SHEETS	STA. 621+50.00	TO STA. 621+50.00																				
		<table border="1"> <tr> <td>F.A.P. RTE.</td> <td>SECTION</td> <td>COUNTY</td> <td>TOTAL SHEETS</td> <td>SHEET NO.</td> </tr> <tr> <td>325</td> <td>(114,116)B-2,3,4</td> <td>MACOUPIN</td> <td>194</td> <td>100</td> </tr> <tr> <td colspan="3"></td> <td colspan="2">CONTRACT NO. 72B64</td> </tr> <tr> <td colspan="2"></td> <td>ILLINOIS</td> <td colspan="3">FED. AID PROJECT</td> </tr> </table>							F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	325	(114,116)B-2,3,4	MACOUPIN	194	100				CONTRACT NO. 72B64				ILLINOIS	FED. AID PROJECT
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																							
325	(114,116)B-2,3,4	MACOUPIN	194	100																							
			CONTRACT NO. 72B64																								
		ILLINOIS	FED. AID PROJECT																								

621 + 50.00