

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(133,134,135)RS-4	MADISON	28	1
ILLINOIS			CONTRACT NO. 76G58	

D-98-057-13



LOCATION OF SECTION INDICATED THUS: - [black bar] -

06-13-14 LETTING ITEM 133

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

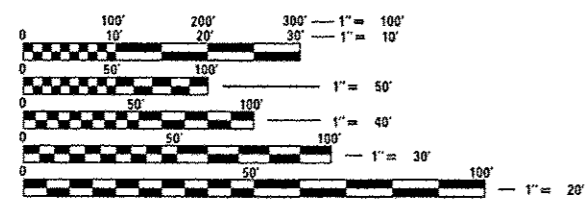
**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 785 (IL 140)
SECTION (133,134,135)RS-4
PROJECT ACF - 0785 (034)
RESURFACING IL 140 FROM IL 159 TO HAMEL
MADISON COUNTY

C-98-058-13

FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT
2013 ADT = 8050 (ACTUAL)
2014 ADT = 8100 (ESTIMATED)
SU = 3.4%
MU = 4.6%

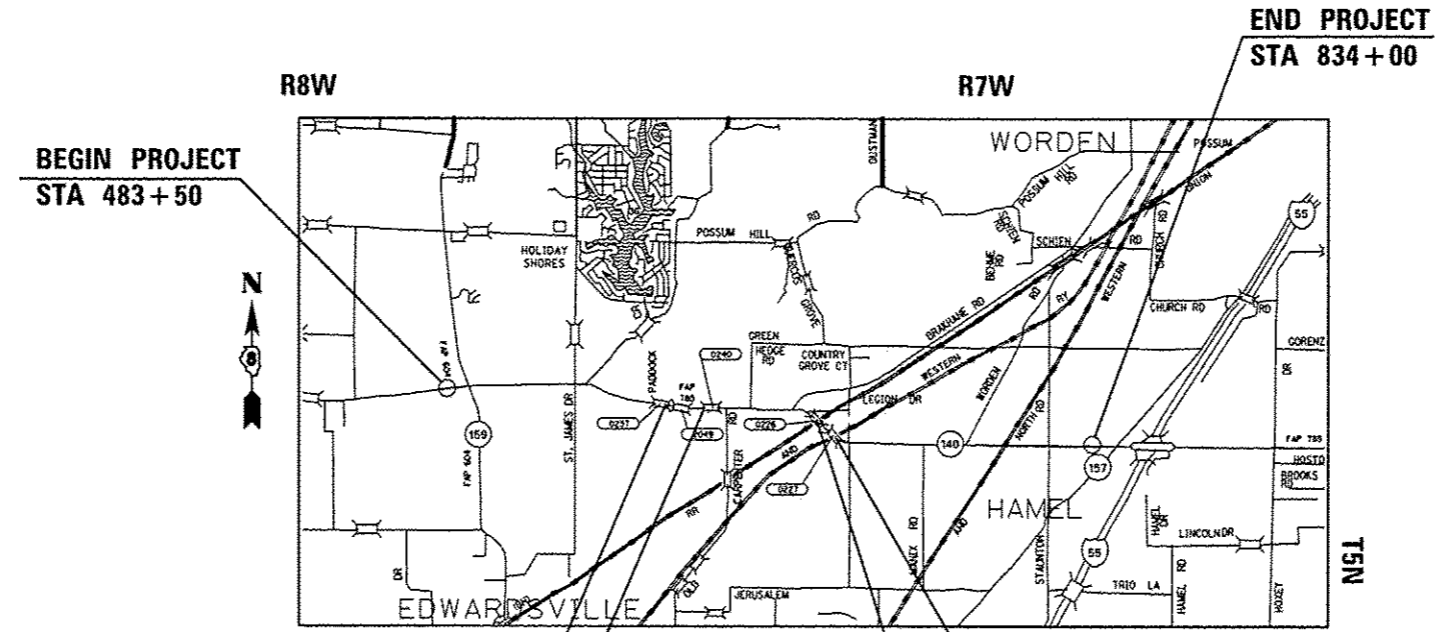


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER - TIM PADGETT (618)346-3325
PROJECT MANAGER - LIZ BURNSIDE (618)346-3196

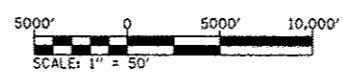
CONTRACT NO. 76G58



BRIDGE OMISSION:
STA 599+76 TO STA 600+95
BRIDGE OMISSION:
STA 622+65 TO STA 626+55

BRIDGE OMISSION:
STA 696+58 TO STA 697+32
BRIDGE OMISSION:
STA 686+11 TO STA 686+69

BEGINNING LONG/LAT = 38° 53' 51.03" N, 89° 58' 12.27" W
ENDING LONG/LAT = 38° 53' 20.60" N, 89° 51' 01.41" W



GROSS LENGTH = 34,409 FT. = 6.52 MILE
NET LENGTH = 35,050 FT. = 6.64 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED 3/20/14
Alfred J. ...
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER
May 9 2014
John D. ...
ENGINEER OF DESIGN AND ENVIRONMENT
May 9 2014
Chris Osman
DIRECTOR OF HIGHWAYS/CHIEF ENGINEER

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

INDEX OF SHEETS

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19	MISC DETAILS
20	TRAFFIC CONTROL PLAN
21-27	CULVERT DESIGN SHEETS
28	CROSS SECTIONS

STANDARDS

- 000001-06
- 001006
- 642006
- 701011-04
- 701201-04
- 701301-04
- 701306-03
- 701311-03
- 701321-13
- 701336-06
- 701901-03
- 780001-04
- 781001-03
- 886001-01
- 886006-01

COMMITMENTS

NONE

GENERAL NOTES

- ① UTILITIES INTERFERENCES ARE NOT ANTICIPATED ON THIS CONTRACT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS CONSTRUCTION ACTIVITIES WITH THE VARIOUS UTILITY OWNERS. ALL POTENTIAL CONFLICTS SHALL BE INVESTIGATED AND REMEDIAL ACTION TAKEN PRIOR TO INTERRUPTION OF THE CONTRACTOR'S PROGRESS. NO ADDITIONAL COST SHALL BE ADDED TO THE CONTRACT RESULTING FROM UTILITY CONFLICTS.
- ② ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

UTILITY	ABOVE GROUND	BELOW GROUND
*AMEREN ILLINOIS (ELECTRIC)	X	X
*AT&T ILLINOIS	X	X
*CONSOLIDATED COMMUNICATIONS	X	X
*CITY OF HAMEL		X
*MADISON TELEPHONE COMPANY	X	X
*SOUTHWESTERN ELECTRIC COOPERATIVE, INC.	X	
*MARATHON PIPE LINE LLC		X
*NORTHEAST CENTRAL COUNTY PUBLIC WATER DIST		X

MEMBERS OF J.U.L.I.E. (800)-892-0123 OR 811 ARE INDICATED BY *. NON J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

- ③ THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

ROUTE	FAP 785 (IL 140)
SECTION	(133,134,135)RS-4
COUNTY	MADISON
CONTRACT	76658

DESCRIPTION	IL 140 FROM 0.2 MILES WEST OF IL 159 TO 0.1 MILES WEST OF PARK AVENUE IN HAMEL.
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ADT (Construction Yr):	8050
MU%:	4.6
SU%:	3.4
ZOYR, ESAL'S:	2.35

MIXTURE USE	SURFACE	INCIDENTAL HMA	BINDER/PATCHING	WIDENING
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 9.5	IL 19.0 FG	IL 19.0 FG
FRICTION AGG	MIXTURE "D"	MIXTURE "C"	MIXTURE "B"	MIXTURE "B"
QUALITY MGMT PROGRAM	OCOA			

MIXTURE USE	SHOULDERS > 2.25"	SHOULDERS < 2.25"
AC/PG	PG 64-22	PG 64-22
DESIGN AIR VOIDS	**2.0% @ Ndes=30	**2.0% @ Ndes=30
MIX COMPOSITION (GRADATION MIXTURE)	NMAS 3/4"	NMAS 1/2"
FRICTION AGG		

** Top Lift Shoulders - Design this mix at 2.0% voids and add asphalt to reduce voids to 1.5%.
Plan quantities for Bituminous Concrete Surface Course Items are calculated using a unit weight of 112 lb/sq yd/in (59.8 kg/sq m/25 mm thickness).

- ④ THE THICKNESS OF THE BITUMINOUS MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.

- ⑤ FLAGGERS SHALL BE PRESENT DURING ALL CLOSURE HOURS, INCLUDING LUNCH HOUR, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- ⑥ EXCAVATION ADJACENT TO EDGE OF PAVEMENT SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES WITH APPROPRIATE LIGHTS.
- ⑦ THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- ⑧ THE PROPOSED PAVEMENT MARKINGS SHALL BE PLACED IN THE SAME LOCATION AS EXISTING OR AS DIRECTED BY THE RESIDENT ENGINEER.
- ⑨ "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT THE BEGINNING AND END OF THE PROJECT PLUS THE INTERSECTING SIDE ROADS, AND WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE, (48" x 48").
- ⑩ SHORT-TERM PAVEMENT MARKING SHALL BE APPLIED TO THE MILLED AND BITUMINOUS SURFACE. A QUANTITY FOR TEMPORARY PAVEMENT MARKING EQUAL TO THE AMOUNT OF PERMANENT PAVEMENT MARKING HAS BEEN ADDED TO THE PLANS. ONLY REMOVAL OF SHORT TERM PAVEMENT MARKING FROM FINAL SURFACE TO BE PAID AS 'WORK ZONE PAVEMENT MARKING REMOVAL'.
- ⑪ THE ILLINOIS DEPARTMENT OF TRANSPORTATION STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. PLEASE CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618/874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
- ⑫ ALL MILLED AREAS SHALL BE RESURFACED WITH THE APPROPRIATE SURFACE COURSE PRIOR TO OPENING THE LANE TO TRAFFIC.
- ⑬ LANE CLOSURES WILL ONLY BE ALLOWED DURING THE CULVERT REPLACEMENT AND IF THE CONTRACTOR IS WORKING AT NIGHT. IF THE CONTRACTOR IS WORKING AT NIGHT, ONLY THE LANE IN WHICH THE CONTRACTOR IS WORKING IN CAN BE CLOSED OVERNIGHT.
- ⑭ TEMPORARY CONCRETE BARRIER SHALL BE PINNED IF THE DISTANCE FROM THE BACK SIDE OF THE BARRIER TO THE DROP OFF IS LESS THAN 3'-6". COST WILL BE INCLUDED IN THE TEMPORARY CONCRETE BARRIER PAY ITEM.

SUMMARY OF QUANTITIES

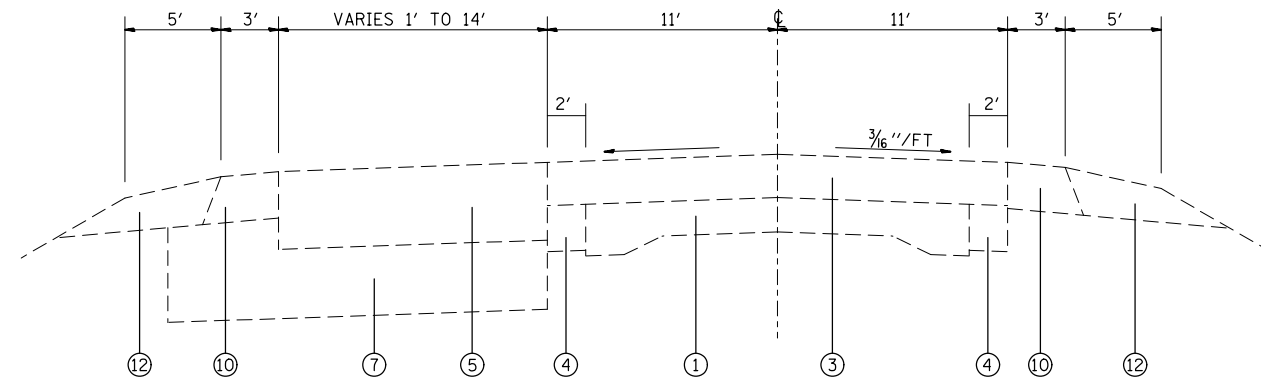
SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE	
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	8	8	
21400100	GRADING AND SHAPING DITCHES	FOOT	296	296	
25000210	SEEDING, CLASS 2A	ACRE	0.2	0.2	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	17	17	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	17	17	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	17	17	
25100115	MULCH, METHOD 2	ACRE	0.2	0.2	
28000500	INLET AND PIPE PROTECTION	EACH	1	1	
28100103	STONE RIPRAP, CLASS A2	SQ YD	1550	1550	
28100107	STONE RIPRAP, CLASS A4	SQ YD	7	7	
28200200	FILTER FABRIC	SQ YD	1557	1557	
35600708	HOT-MIX ASPHALT BASE COURSE WIDENING, 8"	SQ YD	336	336	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	80	80	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	296	296	
40600300	AGGREGATE (PRIME COAT)	TON	473	473	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	3452	3452	
40600990	TEMPORARY RAMP	SQ YD	67	67	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX 2 1/2", N70	TON	11138	11138	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	22	22	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	92536	92536	
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	2518	2518	
44200202	PAVEMENT PATCHING, TYPE II, 17 INCH	SQ YD	153	153	
44200204	PAVEMENT PATCHING, TYPE III, 17 INCH	SQ YD	71	71	
44200206	PAVEMENT PATCHING, TYPE IV, 17 INCH	SQ YD	2713	2713	
44201857	CLASS D PATCHES, TYPE IV, 17 INCH	SQ YD	125	125	
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	15	15	

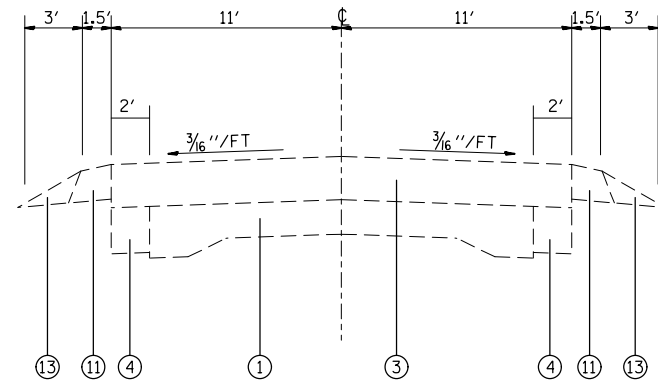
SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	1588	1588	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	1737	1737	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1	
50105220	PIPE CULVERT REMOVAL	FOOT	42	42	
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2	
54010505	PRECAST CONCRETE BOX CULVERTS 5' X 5'	FOOT	60	60	
54213873	STEEL END SECTIONS 18"	EACH	2	2	
54260311	TRAVERSABLE PIPE GRATE	FOOT	75	75	
54200223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	53	53	
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	3	3	
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	11388	11388	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9	
67100100	MOBILIZATION	L SUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	35	35	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	18144	18144	
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	198	198	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	113857	113857	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	629	629	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	84	84	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	3024	3024	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	450	450	



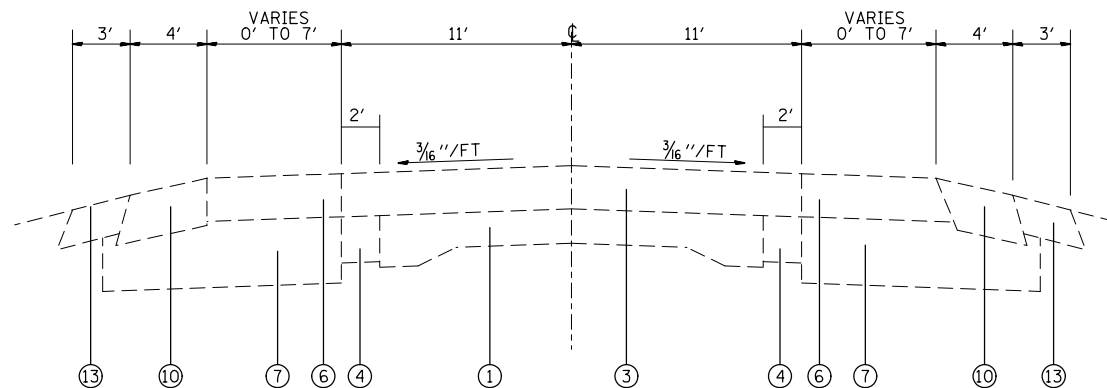
EXISTING TYPICAL SECTION
STA. 484+00 TO STA. 502+54



EXISTING TYPICAL SECTION
STA. 502+54 TO STA. 546+05 STA. 557+06 TO STA. 599+76
STA. 600+95 TO STA. 622+65 STA. 626+55 TO STA. 682+25
STA. 707+25 TO STA. 834+00

NOTE: CONCRETE GUTTERS AT THE FOLLOWING STATIONS:
RIGHT - STA. 584+00 TO STA. 589+00 STA. 711+20 TO STA. 715+00
LEFT - STA. 584+00 TO STA. 593+67 STA. 644+20 TO 646+70
 STA. 711+20 TO STA. 715+20

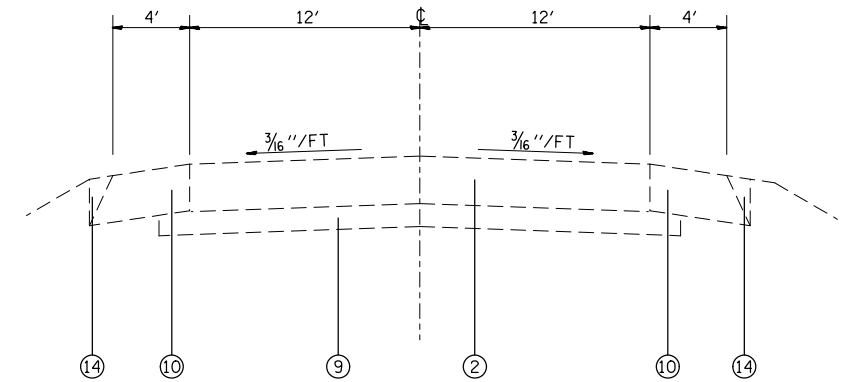
CONCRETE CURB AT STA. 590+00 TO STA. 593+70



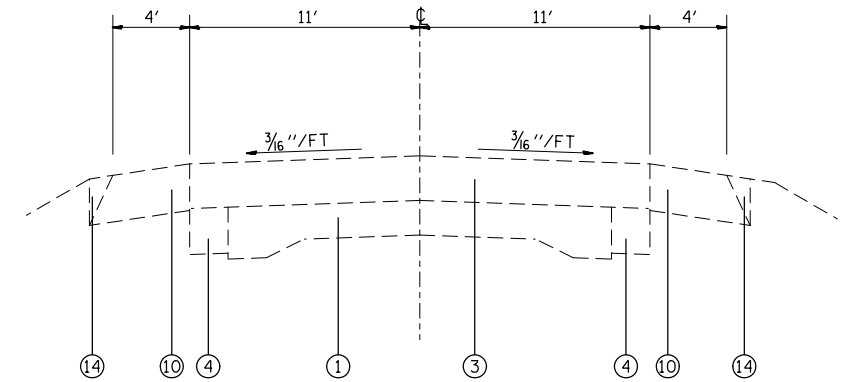
EXISTING TYPICAL SECTION
STA. 546+05 TO STA. 557+06

LEGEND

- 1 EXISTING PCC PAVEMENT, 18' WIDE (9"-6"-9")
- 2 EXISTING PCC PAVEMENT (8-1/4")
- 3 EXISTING HMA OVERLAY (7-1/4" TO 7-3/4")
- 4 EXISTING PCC WIDENING (8" THICK, 2' WIDE)
- 5 EXISTING HMA FULL-DEPTH WIDENING (13-1/2")
- 6 EXISTING BITUMINOUS BASE COURSE SUPERPAVE (11-1/2")
- 7 EXISTING BASE COURSE (12")
- 8 EXISTING BASE COURSE (11-1/2")
- 9 EXISTING BASE COURSE (4")
- 10 EXISTING BITUMINOUS SHOULDER (8")
- 11 EXISTING BITUMINOUS SHOULDER (6")
- 12 EXISTING AGGREGATE SHOULDERS, TYPE A (8")
- 13 EXISTING AGGREGATE SHOULDERS, TYPE A (6")
- 14 EXISTING AGGREGATE SHOULDER WEDGE
- 15 PROPOSED PCC SURFACE REMOVAL (1/2")
- 16 PROPOSED HMA SURFACE REMOVAL (1-1/2")
- 17 PROPOSED BITUMINOUS MATERIAL (PRIME COAT)
- 18 PROPOSED AGGREGATE (PRIME COAT)
- 19 PROPOSED HMA SURFACE COURSE (2-1/4")
- 20 PROPOSED HMA SURFACE COURSE (2-1/2")
- 21 PROPOSED HMA SHOULDERS (2-1/4")
- 22 PROPOSED HMA SHOULDERS (2-1/2")
- 23 PROPOSED AGGREGATE SHOULDER WEDGE



EXISTING TYPICAL SECTION
STA. 682+25 TO STA. 686+11
STA. 686+69 TO STA. 696+58
STA. 697+32 TO STA. 701+62



EXISTING TYPICAL SECTION
STA. 701+62 TO STA. 707+25

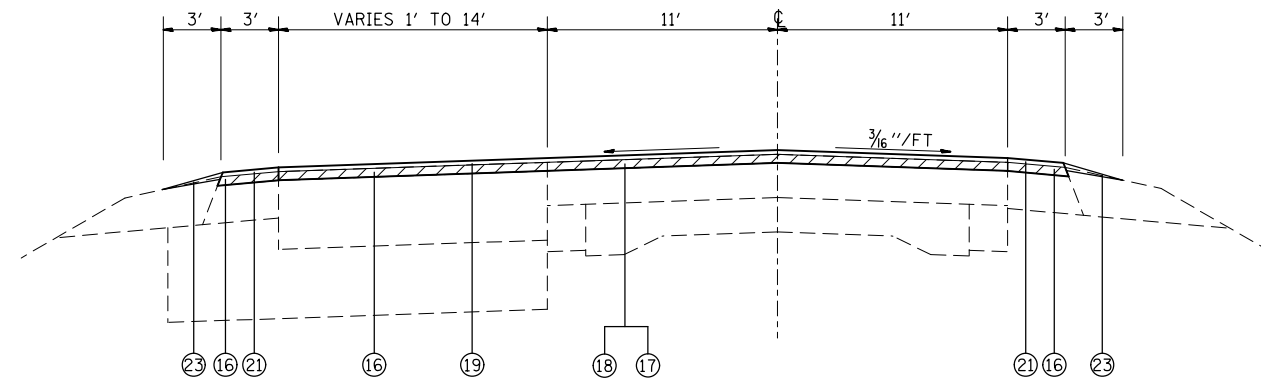
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

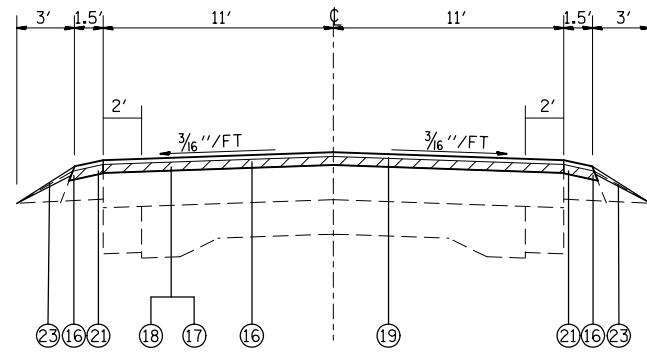
TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(133,134,135)RS-4	MADISON	28	6
CONTRACT NO. 76G58				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



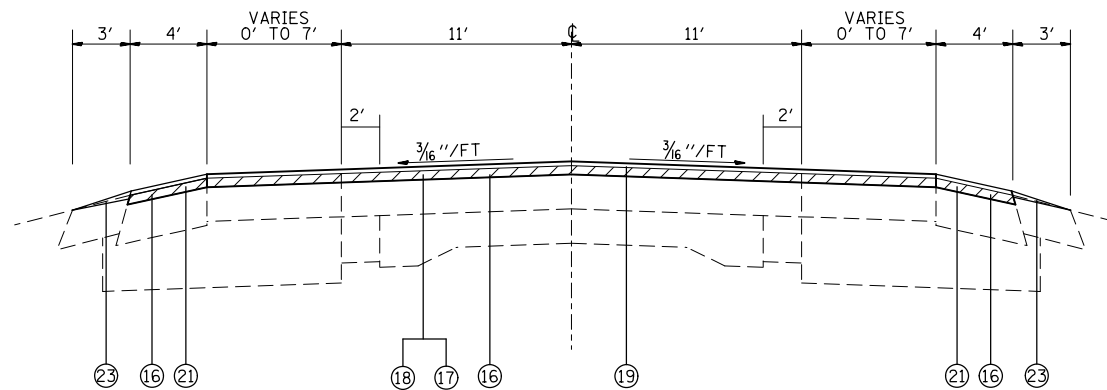
PROPOSED TYPICAL SECTION
STA. 484+00 TO STA. 502+54



PROPOSED TYPICAL SECTION
STA. 502+54 TO STA. 546+05 STA. 557+06 TO STA. 599+76
STA. 600+95 TO STA. 622+65 STA. 626+55 TO STA. 682+25
STA. 707+25 TO STA. 834+00

NOTE: PROPOSED HMA SURFACE REMOVAL (2-1/4") AND
PROPOSED HMA SURFACE COURSE (2-1/4") THRU THE AREAS WITH
CONCRETE GUTTERS AT THE FOLLOWING STATIONS:

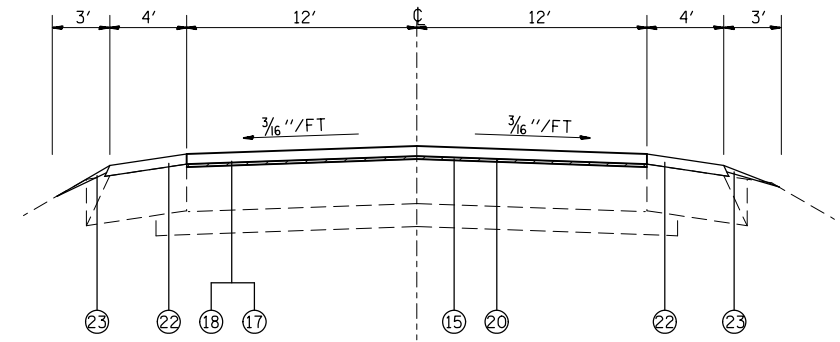
RIGHT - STA. 584+00 TO STA. 589+00 STA. 711+20 TO STA. 715+00
LEFT - STA. 584+00 TO STA. 593+67 STA. 644+20 TO 646+70
 STA. 711+20 TO STA. 715+20



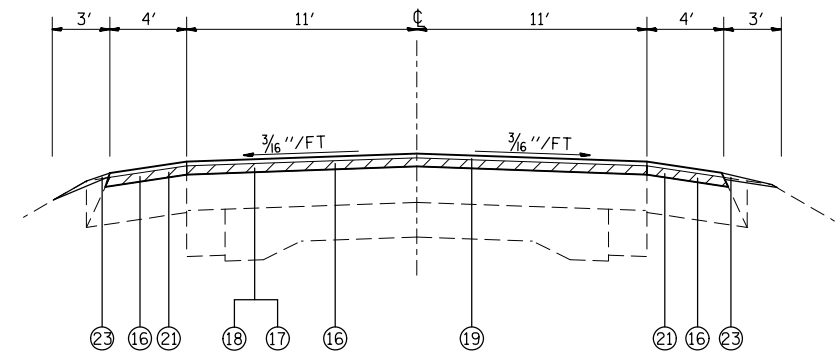
PROPOSED TYPICAL SECTION
STA. 546+05 TO STA. 557+06

LEGEND

- 1 EXISTING PCC PAVEMENT, 18' WIDE (9"-6"-9")
- 2 EXISTING PCC PAVEMENT (8-1/4")
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- 4 EXISTING PCC WIDENING (8" THICK, 2' WIDE)
- 5 EXISTING HMA FULL-DEPTH WIDENING (13-1/2")
- 6 EXISTING BITUMINOUS BASE COURSE SUPERPAVE (11-1/2")
- 7 EXISTING BASE COURSE (12")
- 8 EXISTING BASE COURSE (11-1/2")
- 9 EXISTING BASE COURSE (4")
- 10 EXISTING BITUMINOUS SHOULDER (8")
- 11 EXISTING BITUMINOUS SHOULDER (6")
- 12 EXISTING AGGREGATE SHOULDERS, TYPE A (8")
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PROPOSED TYPICAL SECTION
STA. 682+25 TO STA. 686+11
STA. 686+69 TO STA. 696+58
STA. 697+32 TO STA. 701+62



PROPOSED TYPICAL SECTION
STA. 701+62 TO STA. 707+25

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	PLOT DATE = 3/20/2014	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(133,134,135)RS-4	MADISON	28	7
CONTRACT NO. 76G58				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

RESURFACING SCHEDULE									
LOCATION			BITUMINOUS MATERIALS (PRIME COAT) 2 LIFTS	AGGREGATE (PRIME COAT) 2 LIFTS	HMA SURFACE COURSE, MIX "D", N70, 2-1/4"	HMA SURFACE COURSE, MIX "D", N70, 2-1/2"	HMA SURFACE REMOVAL, 1-1/2"	HMA SURFACE REMOVAL, 2-1/4"	PCC SURFACE REMOVAL, 1/2"
STA	TO	STA	(TON)	(TON)	(TON)	(TON)	(SQYD)	(SQYD)	(SQYD)
IL 140									
484+00	TO	502+54	20.9	33	840		6667		
502+54	TO	546+05	33.3	53	1340		10636		
546+05	TO	557+06	12.6	20	508		4029		
557+06	TO	584+00	20.6	33	830		6585		
584+00	TO	589+00	3.8	6	154			1222	
589+00	TO	599+76	8.2	13	331		2630		
600+95	TO	622+65	16.6	27	668		5304		
626+55	TO	644+20	13.5	22	544		4314		
644+20	TO	646+70	1.9	3	77			611	
646+70	TO	682+25	27.2	43	1095		8690		
682+25	TO	686+11	3.2	5		144			1029
686+69	TO	696+58	8.3	13		369			2637
697+32	TO	701+62	3.6	6		161			1147
701+62	TO	711+20	7.3	12	295		2342		
711+20	TO	714+00	2.1	3	86			684	
714+00	TO	834+00	91.8	147	3696		29333		
SUBTOTAL:			275	439	10464	674	80531	2518	4813
TOTAL:			275	439		11138	80531	2518	4813

ENTRANCE SCHEDULE					
LOCATION	RT/LT	CE/PE/FE	AGGREGATE SURFACE COURSE, TYPE B	INCIDENTAL HMA SURFACING	
			(TON)	(TON)	
IL 140					
489+16	LT	FF	1.5		
489+23	RT	FF	1.5		
489+88	RT	FF	1.5		
499+57	LT	PE		1.4	
500+13	LT	FF	1.5		
512+80	LT	PE		1.4	
513+10	RT	FF	1.5		
514+30	LT	PE	1.5		
526+10	RT	PE		1.4	
533+00	LT	FF	1.5		
533+00	RT	CE	1.5		
535+60	LT	PE	1.5		
536+50	LT	PE	1.5		
541+00	RT	FF	1.5		
547+50	LT	PE		1.4	
546+25	RT	FF	1.5		
553+60	RT	FF	1.5		
556+70	RT	PE	1.5		
565+50	LT	PE	1.5		
576+00	RT	PE	1.5		
581+25	LT	PE	1.5		
582+00	LT	PE	1.5		
583+00	RT	FF	1.5		
583+60	LT	PE	1.5		
583+80	RT	FF	1.5		
585+40	RT	PE			
593+90	RT	FF	1.5		
594+60	LT	PE	1.5		
596+00	RT	FF	1.5		
596+00	LT	PE	1.5		
597+25	LT	PE	1.5		
605+70	LT	FF	1.5		
607+70	RT	FF	1.5		
622+00	RT	FF		1.4	
622+00	LT	FF		1.4	
628+50	RT	FF	1.5		
633+35	RT	CE	1.5		
634+75	RT	CE	1.5		
635+70	LT	PE		1.4	
638+40	LT	PE		1.4	
640+65	LT	PE		1.4	
653+80	RT	FF	1.5		
657+80	RT	FF	1.5		
669+70	RT	FF	1.5		
705+30	RT	CE	1.5		
705+30	LT	CE		1.4	
708+40	LT	PE	1.5		
711+10	RT	PE			
713+10	LT	PE			
714+00	RT	PE			
715+20	RT	PE	1.5		
718+30	RT	PE	1.5		
721+15	RT	PE	1.5		
725+35	RT	PE	1.5		
725+95	LT	PE	1.5		
727+75	LT	FF	1.5		
733+00	RT	PE	1.5		
735+05	RT	PE		1.4	
737+00	RT	PE		1.4	
737+60	RT	PE		1.4	
740+20	RT	PE			
742+00	RT	PE	1.5		
742+00	LT	FF	1.5		
742+80	RT	PE	1.5		
744+30	RT	PE	1.5		
761+20	LT	FF	1.5		
761+30	RT	FF	1.5		
774+40	RT	FF	1.5		
783+20	LT	FF	1.5		
801+50	LT	FF	1.5		
802+40	RT	FF	1.5		
810+75	LT	PE	1.5		
818+90	LT	CE			
828+10	LT	FF	1.5		
829+05	RT	CE		1.4	
832+95	RT	CE		1.4	
TOTAL:			80	22	

TEMPORARY RAMPS			
STA	TO	STA	(SQ YD)
IL 140			
483+97	TO	484+00	8
583+97	TO	584+00	8
589+00	TO	589+03	8
599+73	TO	599+76	8
600+95	TO	600+98	8
622+62	TO	622+65	8
626+55	TO	626+58	8
644+17	TO	644+20	8
646+70	TO	646+73	8
682+22	TO	682+25	10
686+08	TO	686+11	11
686+69	TO	686+72	11
696+55	TO	696+58	11
697+32	TO	697+35	11
701+62	TO	701+65	10
711+17	TO	711+20	8
714+00	TO	714+03	8
833+97	TO	834+00	8
TOTAL:			67

SHOULDER SCHEDULE								
LOCATION			BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	HMA SHOULDERS, 2-1/4"	HMA SHOULDERS, 2-1/2"	HMA SURFACE REMOVAL, 1-1/2"	AGGREGATE SHOULDER WEDGE
STA	TO	STA	(TON)	(TON)	(TON)	(TON)	(SQ YD)	(TON)
IL 140 - RIGHT								
484+00	TO	492+48	0.4	0.7	36		283	33
494+95	TO	498+53	0.2	0.3	15		119	14
499+85	TO	502+54	0.1	0.2	11		90	10
502+54	TO	546+05	1.1	1.8	91		725	85
546+05	TO	552+48	0.4	0.7	36		286	33
553+28	TO	557+06	0.3	0.4	21		168	20
557+06	TO	584+00	0.7	1.1	57		449	52
589+00	TO	599+76	0.3	0.4	23		179	21
600+95	TO	622+65	0.6	0.9	46		362	42
626+55	TO	635+70	0.2	0.4	19		153	18
636+20	TO	672+30	0.9	1.5	76		602	70
672+30	TO	682+25	0.7	1.1	56		442	52
682+25	TO	686+11	0.3	0.4		24		20
686+69	TO	696+58	0.7	1.1		62		51
697+32	TO	701+62	0.3	0.5		27		22
701+62	TO	707+25	0.4	0.6	32		250	29
707+95	TO	710+25	0.1	0.1	5		38	4
715+00	TO	746+60	0.8	1.3	66		527	61
747+40	TO	814+05	1.7	2.8	140		1111	130
814+80	TO	834+00	0.5	0.8	40		320	37
IL 140 - LEFT								
484+00	TO	491+80	0.4	0.7	33		260	30
494+26	TO	502+54	0.4	0.7	35		276	32
502+54	TO	503+55	0.0	0.0	2		17	2
504+05	TO	525+75	0.6	0.9	46		362	42
526+25	TO	546+05	0.5	0.8	42		330	38
546+05	TO	551+25	0.4	0.6	29		231	27
553+85	TO	557+06	0.2	0.4	18		143	17
557+06	TO	558+05	0.0	0.0	2		17	2
558+95	TO	584+00	0.7	1.0	53		418	49
593+50	TO	599+76	0.2	0.3	13		104	12
600+95	TO	622+65	0.6	0.9	46		362	42
626+55	TO	644+20	0.5	0.7	37		294	34
646+70	TO	648+95	0.1	0.1	5		38	4
649+45	TO	671+00	0.6	0.9	45		359	42
672+30	TO	673+85	0.1	0.2	9		69	8
674+45	TO	682+25	0.5	0.9	44		347	40
682+25	TO	686+11	0.3	0.4		24		20
686+69	TO	696+58	0.7	1.1		62		51
697+32	TO	701+62	0.3	0.5		27		22
701+62	TO	707+25	0.4	0.6	32		250	29
707+95	TO	711+20	0.1	0.1	7		54	6
714+00	TO	770+05	1.5	2.3	118		934	109
770+95	TO	814+05	1.1	1.8	91		718	84
814+80	TO	834+00	0.5	0.8	40		320	37
SUBTOTAL:			21	34	1513	225	12005	1588
TOTAL:			21	34		1737	12005	1588

HMA SURFACE REMOVAL BUTT- JOINT			
STA	TO	STA	(SQ YD)
IL 140			
483+50	TO	484+00	139
491+80	TO	494+26	96
492+48	TO	494+95	96
498+53	TO	499+85	51
503+55	TO	504+05	19
525+75	TO	526+25	19
551+25	TO	553+85	101
552+48	TO	553+28	31
558+05	TO	558+95	35
583+50	TO	584+00	139
589+00	TO	589+50	139
599+26	TO	599+76	139
600+95	TO	601+45	139
622+15	TO	622+65	139
626+55	TO	627+05	139
635+70	TO	636+20	19
643+70	TO	644+20	139
646+70	TO	647+20	139
648+95	TO	649+45	19
671+00	TO	672+30	51
673+85	TO	674+45	23
681+75	TO	682+25	167
685+61	TO	686+11	178
686+69	TO	687+19	178
696+08	TO	696+58	178
697+32	TO	697+82	178
701+62	TO	702+12	167
707+25	TO	707+95	27
707+25	TO	707+95	27
710+70	TO	711+20	139
714+00	TO	714+50	139
746+60	TO	747+40	31
770+05	TO	770+95	35
814+05	TO	814+80	29
814+05	TO	814+80	29
833+50	TO	834+00	139
TOTAL:			3452

PAVEMENT MARKING SCHEDULE													
LOCATION			THERMOPLASTIC PAVEMENT MARKING AND TEMPORARY PAVEMENT MARKING							SHORT-TERM PAVEMENT MARKING (2 LIFTS) (WHITE)	SHORT-TERM PAVEMENT MARKING (2 LIFTS) (YELLOW)	WORKZONE PAVEMENT MARKING REMOVAL (SQ FT)	
			LINE, 4" SOLID (WHITE) FOOT	LINE, 4" DOUBLE SOLID FOOT	LINE, 4" SKIP-DASH (YELLOW) FOOT	LINE, 4" NO PASS EB (YELLOW) FOOT	LINE, 4" NO PASS WB (YELLOW) FOOT	LINE, 12" SOLID (WHITE) FOOT	LINE, 24" SOLID (WHITE) FOOT				LETTERS & SYMBOLS (WHITE) SQ FT
STA	TO	STA	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	
IL 140													
483+50		493+05	1950	3350				170	42	83	156	382	90
493+69		502+54	1649	3210				179	42	83	132	354	81
502+54		503+80	202	252							16	50	11
503+80		507+80	800		100						64	200	44
507+80		526+40	3670		465						294	372	111
526+40		536+60	2040		255	1020					163	510	112
536+60		546+05	1890	1890							151	378	88
546+05		552+50	1080	2350				122		31	86	258	57
553+15		557+06	485	1564				158			39	156	33
557+06		559+31	360	450							29	90	20
559+31		571+50	2438		305		1219				195	610	134
571+50		573+00	300		38						24	30	9
573+00		584+00	2200		275	1100					176	550	121
584+00		585+00	200	200							16	40	9
585+00		594+90	1980	1980	248		990				158	396	92
594+90		599+76	972		122						78	97	29
600+95		622+65	4340		543						347	434	130
626+55		636+45	1930		248						154	198	59
636+45		647+75	2260		283	1130					181	565	124
647+75		659+00	2200		281		1125				176	563	123
659+00		670+00	2200		275	1100					176	550	121
670+00		686+11	3092	3222							247	644	149
686+11		696+58	1978	1978							158	396	92
697+32		725+60	5456	5656							436	1131	261
725+60		733+25	1530		191		765				122	383	84
733+25		737+85	920	920							74	184	43
737+85		741+15	660		83	330					53	165	36
741+15		743+15	400		50						32	40	12
743+15		752+15	1650		225		900				132	450	97
752+15		785+90	6750		844						540	675	203
785+90		791+10	1040		130	520					83	260	57
791+10		792+10	200	200							16	40	9
792+10		797+10	1000		125		500				80	250	55
797+10		803+70	1320		165						106	132	40
803+70		809+65	1190		149	595					95	298	65
809+65		814+00	870		109						70	87	26
814+00		818+50	825		113		450				66	225	49
818+50		821+15	530	530							42	106	25
821+15		825+90	950		119	475					76	238	52
825+90		829+80	780		98						62	78	23
829+80		834+00	840		105		420				67	210	46
SUBTOTAL:			67127	27752	5939	6270	6769	629	84	198	5370	12774	3024
TOTAL:					113857			629	84	198	18144		3024

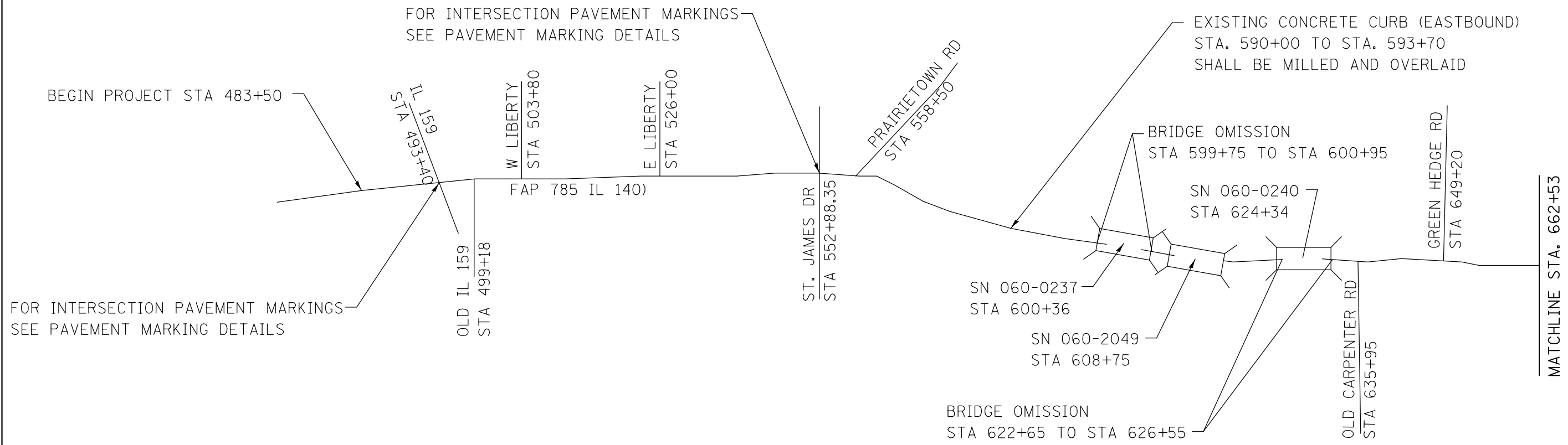
PAVEMENT PATCHING 17 INCH SCHEDULE						
LOCATION	LANE	LENGTH	LANE WIDTH	PAVEMENT PATCHING TYPE II	PAVEMENT PATCHING TYPE III	PAVEMENT PATCHING TYPE IV
	(EB/WB)	(FOOT)	(FOOT)	(SQ YD)	(SQ YD)	(SQ YD)
IL 140						
483 + 92	EB	8.0	12.5	11.1		
483 + 92	WB	8.0	12.5	11.1		
492 + 00	EB	100.0	12.0			133.3
504 + 10	EB	8.0	12.5	11.1		
512 + 00	EB	120.0	6.0			80.0
514 + 50	EB	60.0	6.0			40.0
530 + 00	EB	6.0	12.5	8.3		
530 + 00	WB	6.0	12.5	8.3		
531 + 00	EB	6.0	12.5	8.3		
531 + 00	WB	6.0	12.5	8.3		
546 + 00	WB	40.0	6.0			26.7
646 + 00	EB	60.0	6.0			40.0
655 + 00	EB	8.0	12.5	11.1		
660 + 00	EB	30.0	6.0		20.0	
666 + 00	EB	450.0	6.0			300.0
710 + 00	EB	60.0	6.0			40.0
712 + 50	EB	100.0	12.5			138.9
714 + 00	EB	120.0	6.0			80.0
737 + 20	EB	500.0	6.0			333.3
753 + 00	EB	8.0	12.5	11.1		
756 + 00	EB	50.0	6.0			33.3
764 + 00	EB	760.0	6.0			506.7
772 + 00	EB	550.0	6.0			366.7
779 + 00	EB	50.0	6.0			33.3
786 + 50	EB	250.0	6.0			166.7
791 + 50	EB	15.0	12.5		20.8	
791 + 50	WB	15.0	12.5		20.8	
793 + 00	EB	6.0	12.5	8.3		
793 + 00	WB	6.0	12.5	8.3		
805 + 00	EB	60.0	6.0			40.0
829 + 00	EB	10.0	12.5	13.9		
829 + 00	WE	10.0	12.5	13.9		
SUBTOTAL:				133.3	61.7	2358.9
ANTICIPATED FAILURES (15%):				20.0	9.3	353.8
TOTAL:				153	71	2713

SHOULDER RUMBLE STRIPS			
LOCATION			SHOULDER RUMBLE STRIPS 8"
STA	TO	STA	(FOOT)
IL 140 - RIGHT			
484+00	TO	492+05	805
495+35	TO	498+35	300
500+00	TO	502+50	250
546+05	TO	552+25	620
553+50	TO	557+06	356
672+30	TO	686+01	1371
686+79	TO	696+48	969
697+42	TO	707+25	983
IL 140 - LEFT			
484+00	TO	491+40	740
494+65	TO	499+30	465
499+80	TO	500+85	105
501+35	TO	502+50	115
546+05	TO	551+15	510
553+85	TO	557+06	321
672+30	TO	673+85	155
672+30	TO	686+01	1371
686+79	TO	696+48	969
697+42	TO	707+25	983
TOTAL:			11388

RAISED PAVEMENT MARKERS						
LOCATION			RAISED REFLECTOR PAVEMENT MARKER ONE-WAY AMBER	RAISED REFLECTOR PAVEMENT MARKER ONE-WAY CRYSTAL	RAISED REFLECTOR PAVEMENT MARKER TWO-WAY AMBER	RAISED REFLECTOR PAVEMENT MARKER REMOVAL
STA	TO	STA	(EACH)	(EACH)	(EACH)	(EACH)
IL 140						
483+50	TO	493+05	38	5	12	55
493+69	TO	503+34	38	4	14	56
503+34	TO	545+25	53			53
545+25	TO	552+50	26	4	14	44
553+15	TO	557+86	26		6	32
557+86	TO	599+76			52	52
600+95	TO	622+65			27	27
626+55	TO	686+11			74	74
686+11	TO	696+58			12	12
697+32	TO	834+00			170	170
SUBTOTAL:			181	13	381	575
TOTAL:				575		575

FRAMES & GRATES TO BE ADJUSTED		
LOCATION	RT/LT	(EACH)
STA. 685+95	RT/LT	2
STA. 697+48	LT	1
TOTAL:		3

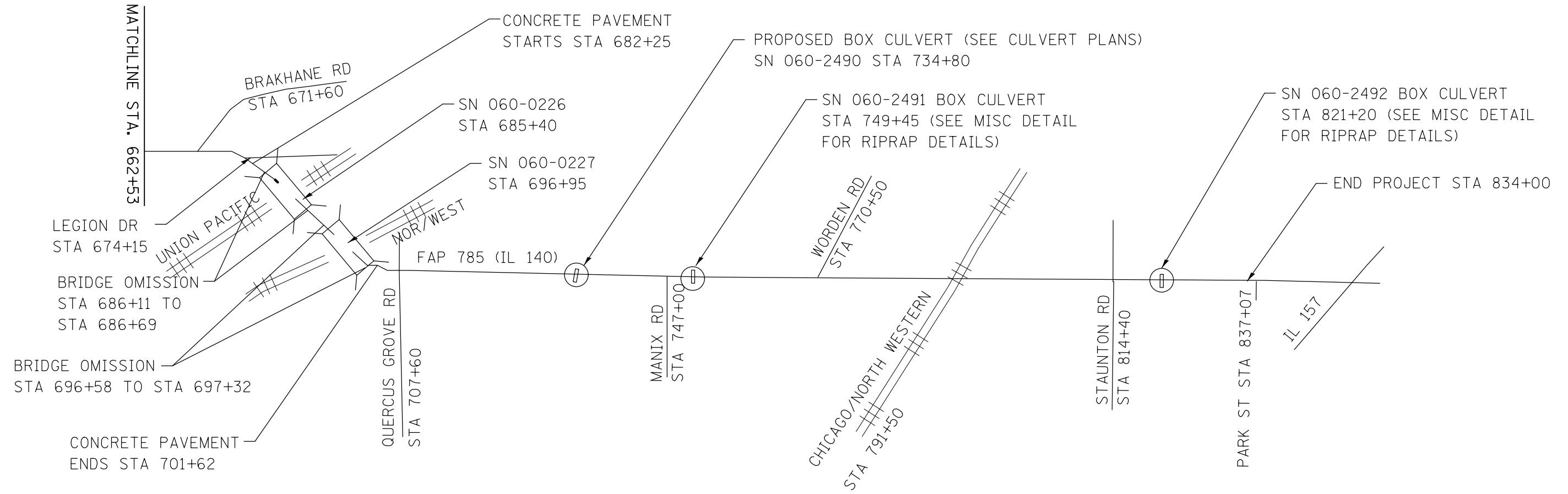
STONE RIPRAP CLASS A2		
LOCATION	FILTER FABRIC	STONE RIPRAP CLASS A2
IL 140	(SQ YD)	(SQ YD)
SN 060-2491 (RIGHT)	375	375
SN 060-2491 (LEFT)	325	325
SN 060-2492 (RIGHT)	425	425
SN 060-2492 (LEFT)	425	425
TOTAL:		1550



BRIDGE OMISSIONS - STA 599+76 TO STA 600+95
 STA 622+65 TO STA 626+55

NOT TO SCALE

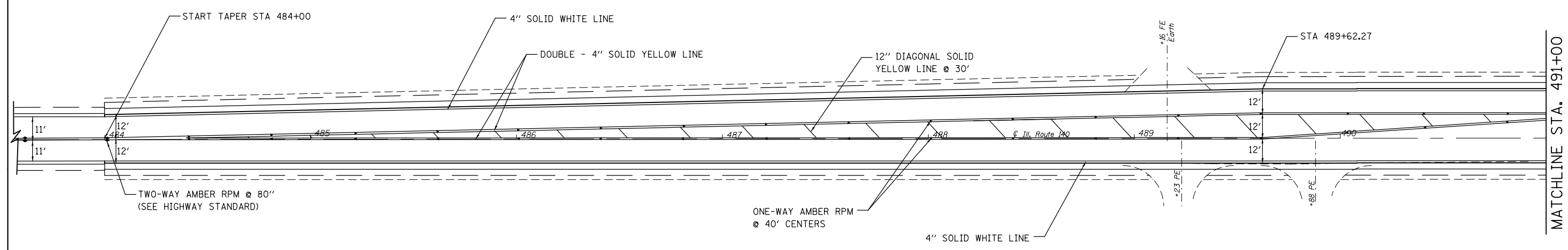
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	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -		CONTRACT NO. 76G58				FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
	PLOT DATE = 3/20/2014	DATE -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.				



BRIDGE OMISSIONS - STA 686+11 TO STA 686+69
 STA 696+58 TO STA 697+32

NOT TO SCALE

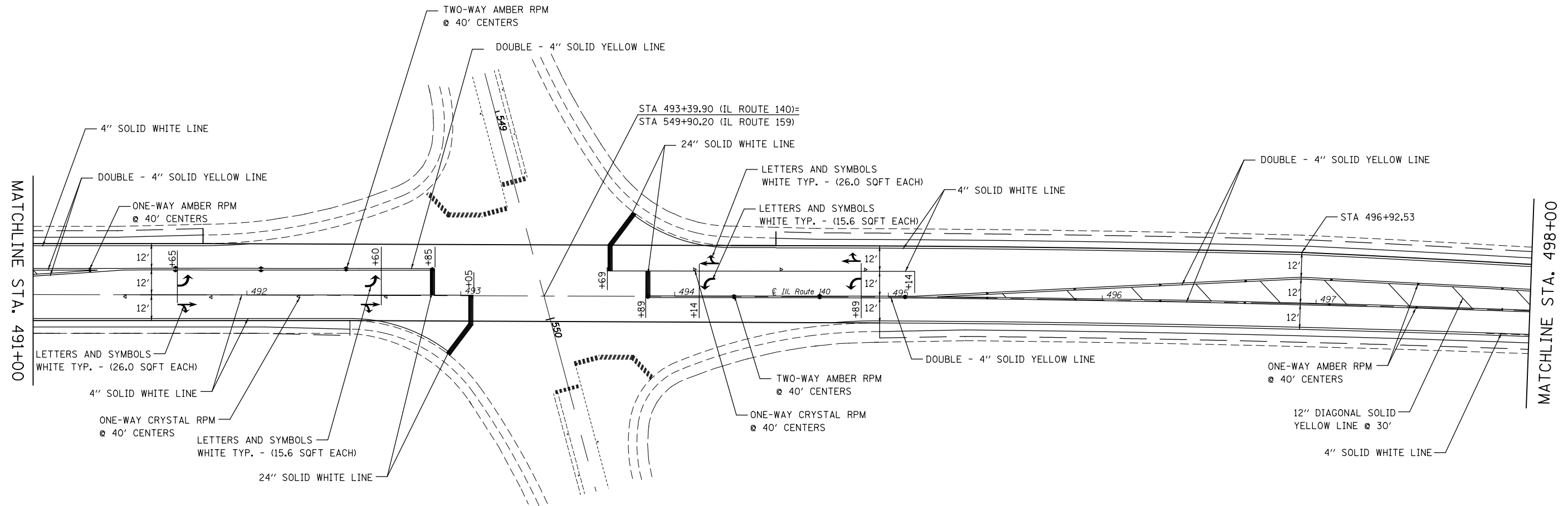
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	PLOT SCALE = 100.0000' / 1in.	DRAWN -	REVISED -		785	(133,134,135)RS-1	MADISON	28	11				
PLOT DATE = 3/20/2014	CHECKED -	REVISED -					CONTRACT NO. 76C58						
	DATE -	REVISED -	SCALE:		SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



- RAISED REFLECTIVE PAVEMENT MARKERS
- ◄ ONE-WAY AMBER MARKER
 - ◆ TWO-WAY AMBER MARKER
 - ◄ ONE-WAY CRYSTAL MARKER

NOT TO SCALE

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	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -					785	(133,134,135)RS-4	MADISON	28	12
PLOT DATE = 3/20/2014	DATE -	REVISED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
							CONTRACT NO. 76G58					

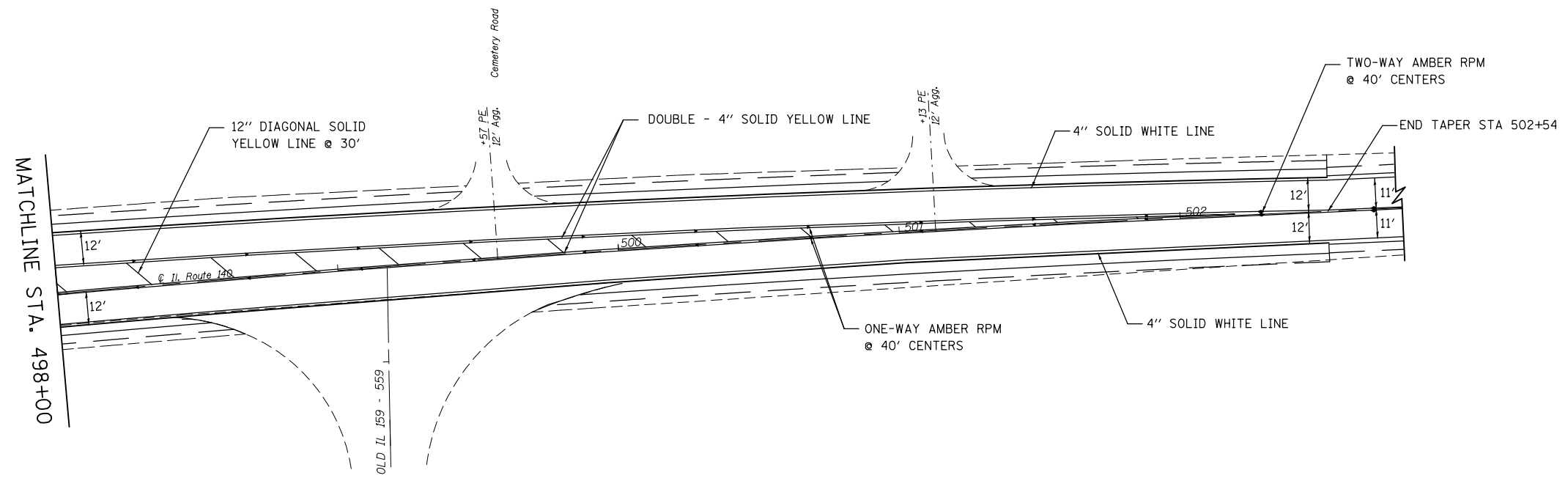


NOT TO SCALE

RAISED REFLECTIVE PAVEMENT MARKERS

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

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	PLOT SCALE = 100.0000' / 1".	CHECKED -	REVISED -		785	(133,134,135)RS-4	MADISON	28	13				
PLOT DATE = 3/20/2014	DATE -	REVISED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.				CONTRACT NO. 76G58				
					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								



RAISED REFLECTIVE PAVEMENT MARKERS

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

NOT TO SCALE

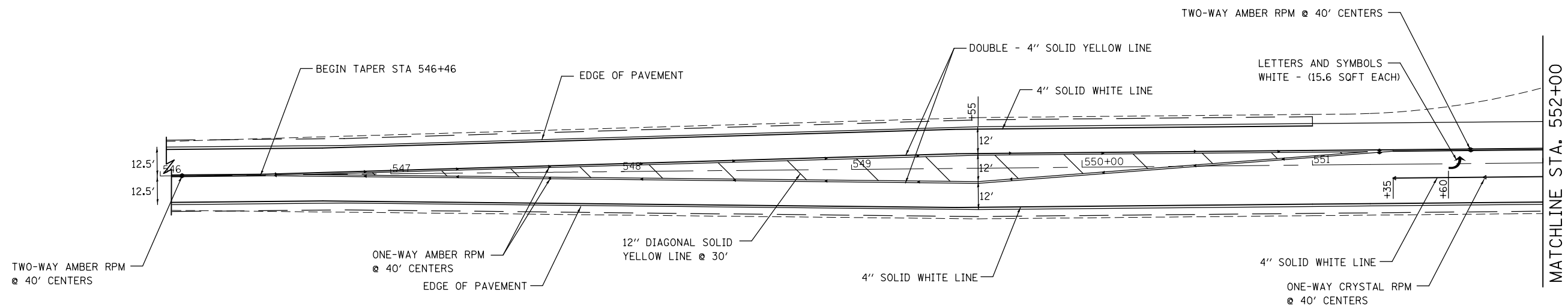
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING DETAIL
INTERSECTION IL 140 AND IL 159**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(133,134,135)RS-4	MADISON	28	14
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76G58	



NOT TO SCALE

RAISED REFLECTIVE PAVEMENT MARKERS

- ◄ ONE-WAY AMBER MARKER
- ◆ TWO-WAY AMBER MARKER
- ◄ ONE-WAY CRYSTAL MARKER

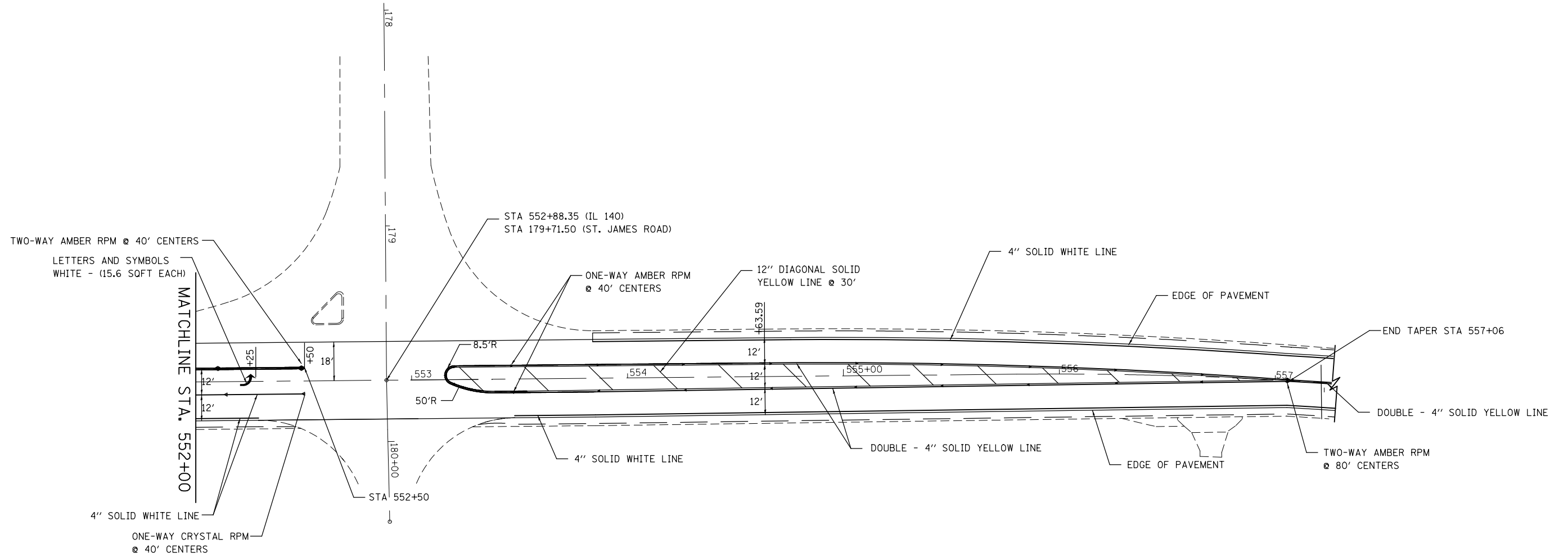
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING DETAIL
INTERSECTION IL 140 AND ST. JAMES ROAD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(133,134,135)RS-4	MADISON	28	15
CONTRACT NO. 76G58				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



RAISED REFLECTIVE PAVEMENT MARKERS

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

NOT TO SCALE

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING DETAIL
INTERSECTION IL 140 AND ST. JAMES ROAD**

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

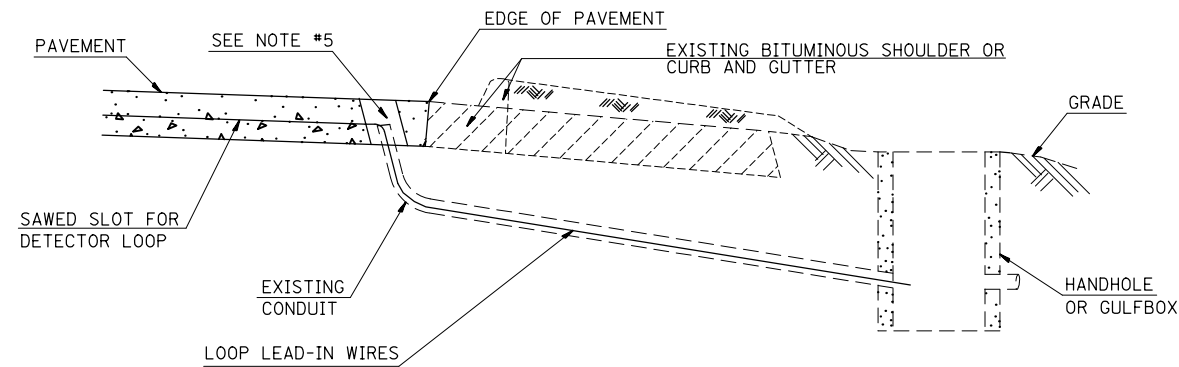
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785	(133,134,135)RS-4	MADISON	28	16
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76G58	

NOTES:

SEE TABLE "DETECTOR LOOP REQUIREMENTS AND CALCULATIONS"
FOR LOOP SIZE AND CALCULATED NUMBER OF TURNS.

SEE "DETAIL A" FOR INSTALLING DETECTOR LOOP WIRES
IN EXISTING CONDUITS.

SCHEDULE OF QUANTITIES			TOTAL QUANTITIES	IL 140 & IL 159
CODE NO	ITEM	UNIT		
88300100	LOCATING UNDERGROUND CABLE	FOOT	40	40
88600600	DETECTOR LOOP REPLACEMENT	FOOT	909	909



DETAIL A
(NO SCALE)

INSTALLING DETECTOR LOOP WIRES IN EXISTING CONDUIT

1. DRILL OUT PAVEMENT SEALANT AND CLEAN EXISTING CONDUIT.
2. REMOVE EXISTING DETECTOR LOOP WIRES TO HANDHOLE OR GULFBOX.
3. INSTALL NEW LOOP LEAD-IN WIRES IN EXISTING CONDUIT.
4. SPLICE NEW DETECTOR LOOP WIRES TO EXISTING LOOP LEAD-IN CABLE IN HANDHOLE OR GULFBOX.
5. FILL HOLE WITH APPROVED SEALER. PREVENT SEALER FROM ENTERING INTO CONDUIT.
6. LOCATING UNDERGROUND CABLE WILL BE PAID FOR SEPARATELY.

NOT A PAY ITEM. THE COST OF THIS WORK SHALL BE
INCLUDED IN THE PAY ITEM "DETECTOR LOOP REPLACEMENT"

DETECTOR LOOP REPLACEMENT LEGEND

- ☒ EX. HANDHOLE
- EX. DETECTOR LOOP
- ☒ EX. TRAFFIC SIGNAL CONTROLLER
- EXISTING CONDUIT
- ▭ PROPOSED DETECTOR LOOP

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN
GENERAL NOTES, SCHEDULE OF QUANTITIES,
DETAIL AND LEGEND**

SCALE: NA SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(133,134,135)RS-4	MADISON	28	17
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76G58	

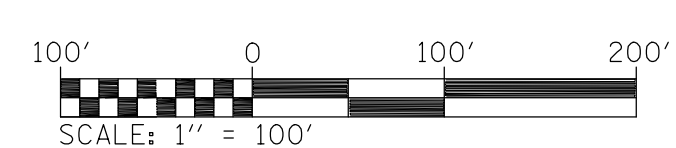
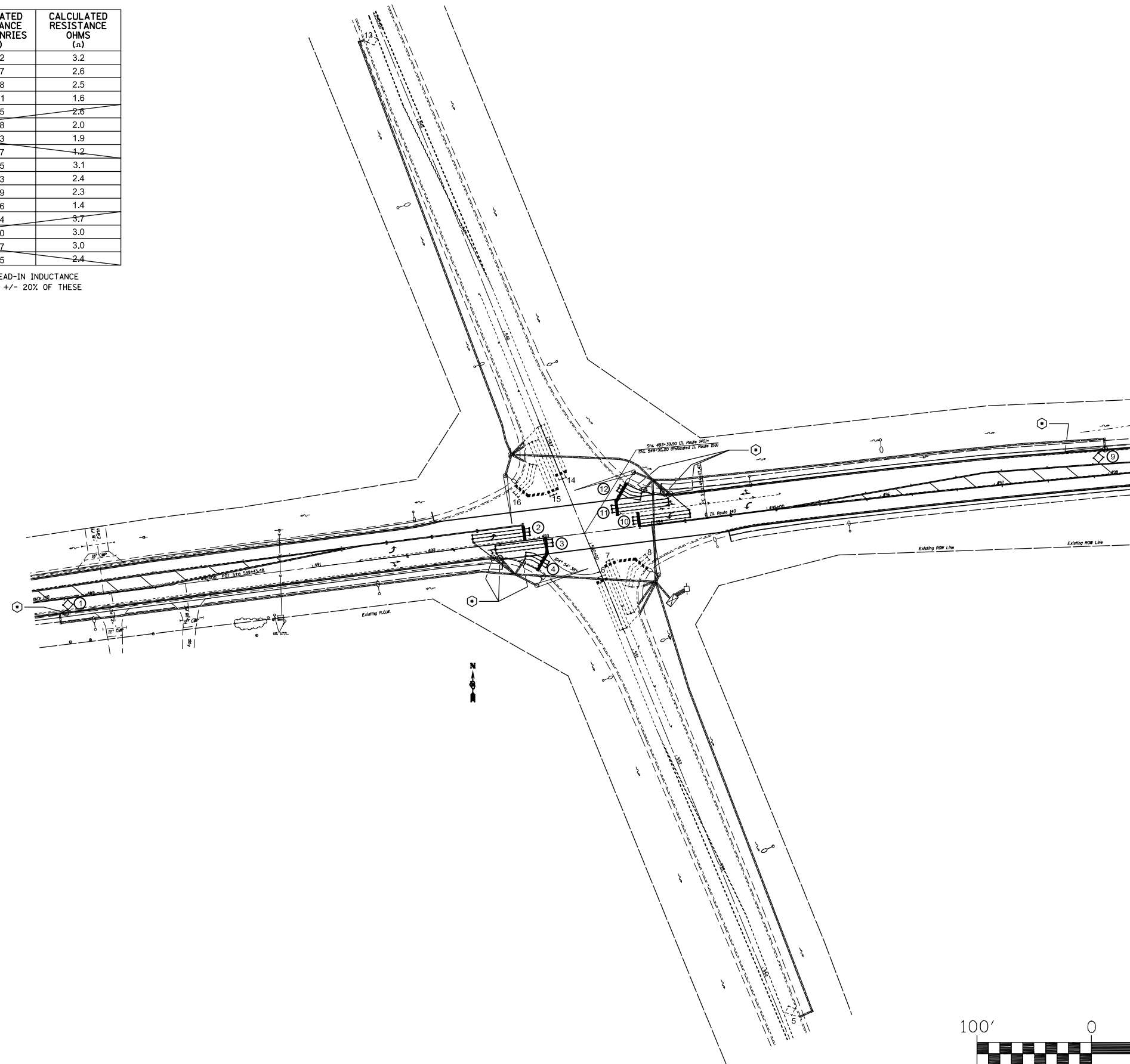
DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 140 & IL 159

LOOP#	PHASE #	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (μH)	CALCULATED RESISTANCE OHMS (Ω)
1. EB CCO	6	6 x 6	6	381.2	3.2
2. EB LT CD	1	6 x 50(Q)	3-6-3	830.7	2.6
3. EB THRU CD	6	6 x 50(Q)	3-6-3	825.8	2.5
4. EB RT CD	6	6 x 20(Q)	3-6-3	374.1	1.6
5. NB CCO	4	6 x 6	6	354.5	2.6
6. NB LT CD	7	6 x 50(Q)	3-6-3	801.8	2.0
7. NB THRU CD	4	6 x 50(Q)	3-6-3	798.3	1.9
8. NB RT CD	4	6 x 30(Q)	3-6-3	495.7	1.2
9. WB CCO	2	6 x 6	6	373.5	3.1
10. WB LT CD	5	6 x 50(Q)	3-6-3	822.3	2.4
11. WB THRU CD	2	6 x 50(Q)	3-6-3	817.9	2.3
12. WB RT CD	2	6 x 20(Q)	3-6-3	366.6	1.4
13. SB CCO	8	6 x 6	7	510.4	3.7
14. SB LT CD	3	6 x 50(Q)	3-6-3	850.0	3.0
15. SB THRU CD	8	6 x 50(Q)	3-6-3	846.7	3.0
16. SB RT CD	8	6 x 30(Q)	3-6-3	546.5	2.4

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

Q=QUADRAPOLE

⊙ =SEE DETAIL A



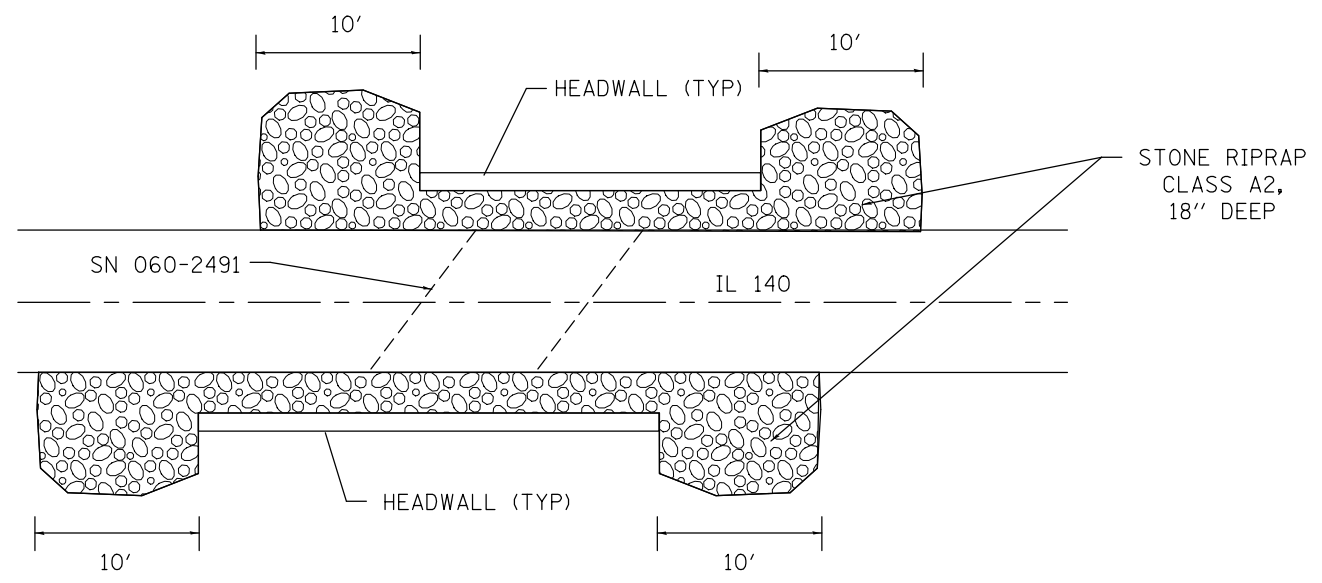
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

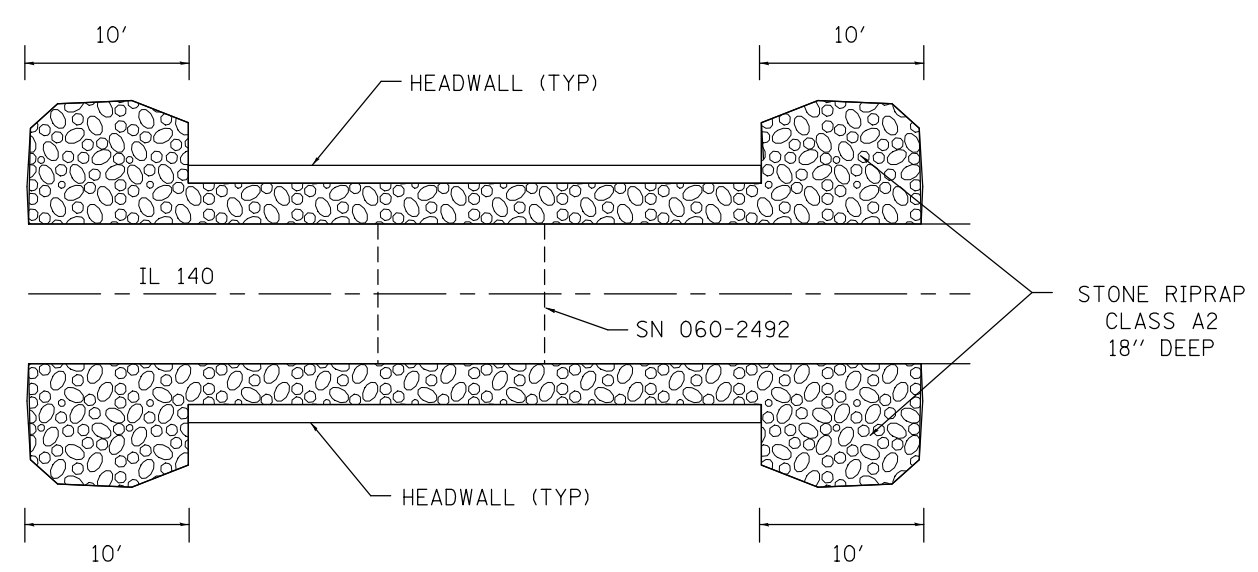
DETECTOR LOOP REPLACEMENT PLAN
IL 140 & IL 159

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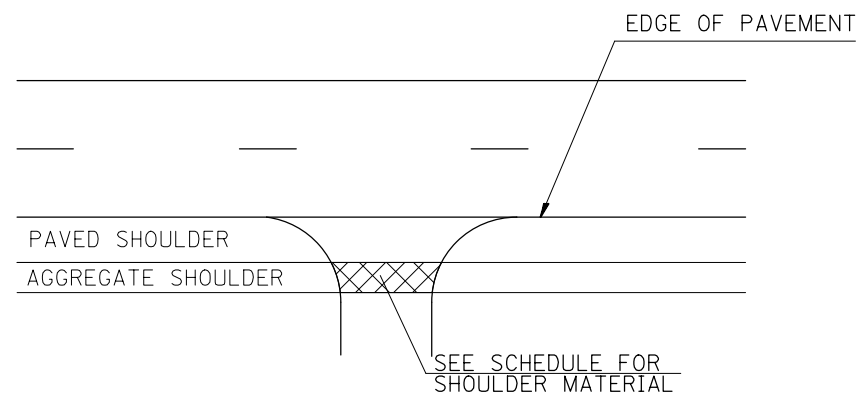
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CONTRACT NO. 76G58				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



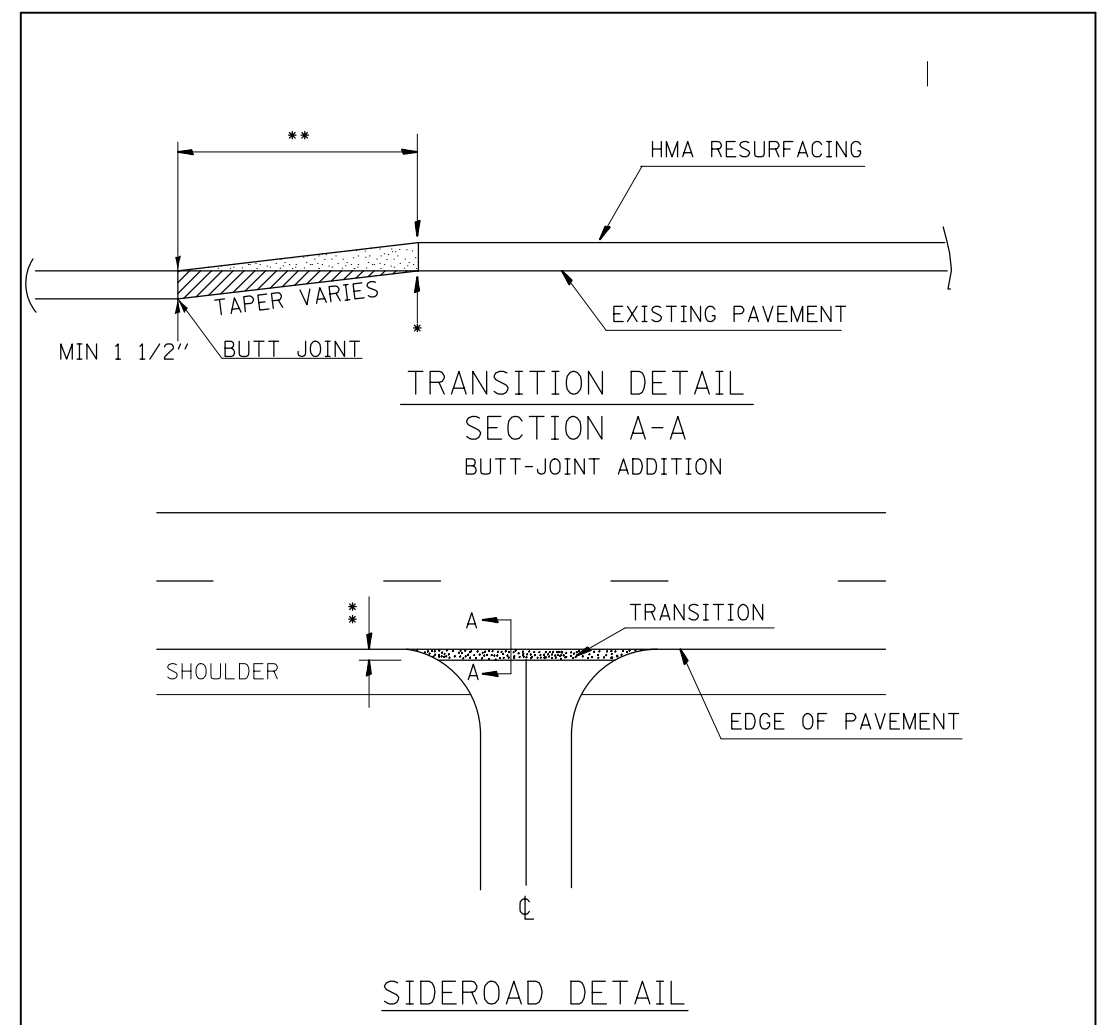
SN 060-2491



SN 060-2492



SIDEROAD DETAIL



*EOP ELEVATION CHANGE	**TOTAL TRANSITION LENGTH
3/4"	3.5'
1"	5'
1-1/2"	7.5'
2"	10'
2-1/2"	12.5'
3"	15'
3-1/2"	17.5'
4"	20'
4-1/2"	22.5'
5"	25'
5-1/2"	27.5'
6"	30'

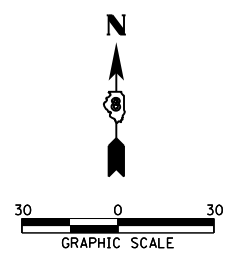
NOTE:
WHERE THE HMA TRANSITION IS MATCHING INTO AN EXISTING HMA SIDE ROAD SURFACE, A MILLED BUTT JOINT SHALL BE CONSTRUCTED WITHIN THE LIMITS OF THE TOTAL TRANSITION LENGTH ON THE LOCAL ROUTE.

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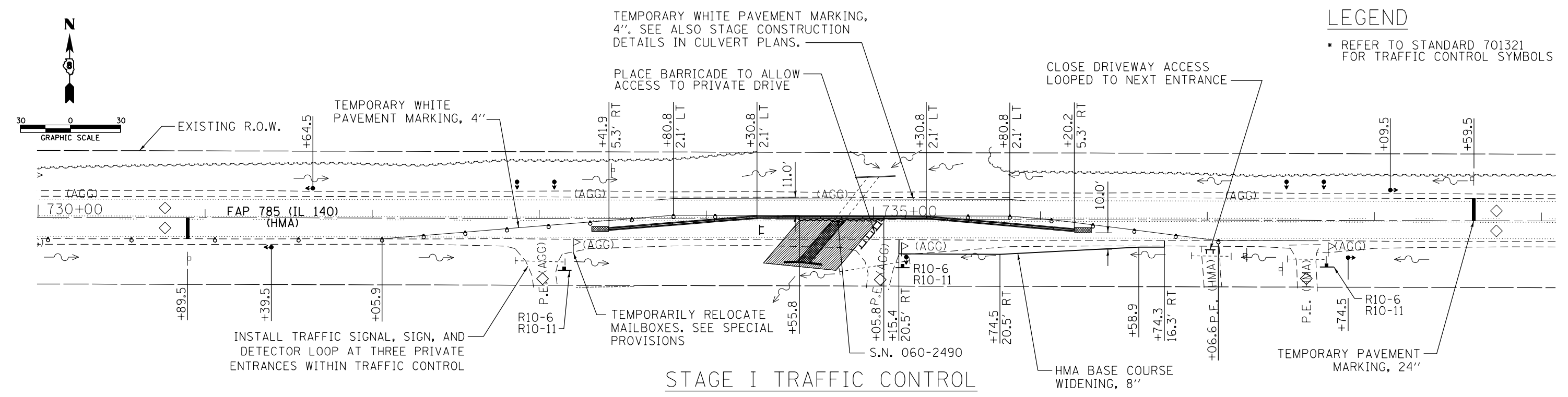
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

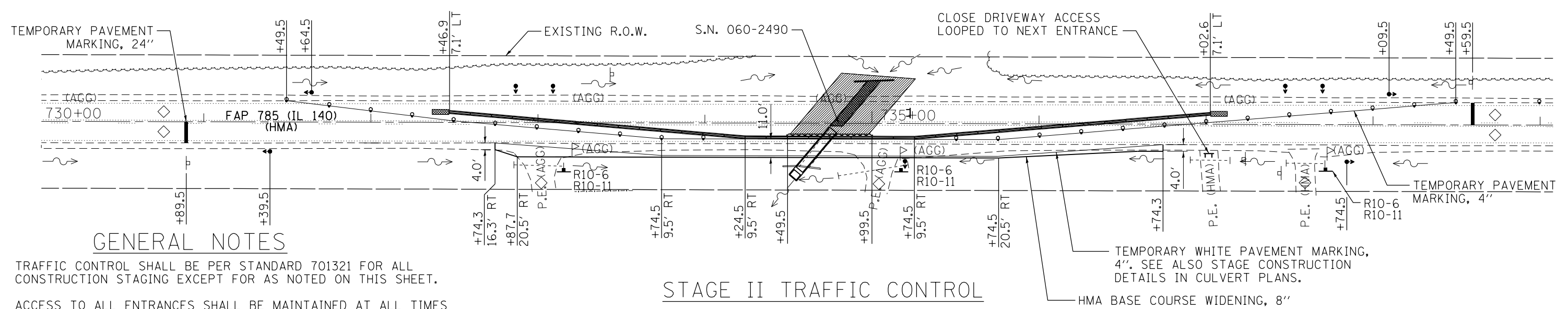
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785	(133,134,135)RS-4	MADISON	28	19
CONTRACT NO. 76G58				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LEGEND
 * REFER TO STANDARD 701321 FOR TRAFFIC CONTROL SYMBOLS



STAGE I TRAFFIC CONTROL



STAGE II TRAFFIC CONTROL

GENERAL NOTES

TRAFFIC CONTROL SHALL BE PER STANDARD 701321 FOR ALL CONSTRUCTION STAGING EXCEPT FOR AS NOTED ON THIS SHEET.

ACCESS TO ALL ENTRANCES SHALL BE MAINTAINED AT ALL TIMES UNLESS THE CONTRACTOR OBTAINS WRITTEN PERMISSION FROM THE OWNER OR OCCUPANTS. SEE SPECIAL PROVISIONS.

TEMPORARY PAVEMENT MARKINGS SHALL BE USED WHEN STAGING OR TRAFFIC CONTROL REQUIRES DELINEATION OF TRAFFIC LANES IN ACCORDANCE WITH STANDARD 701321 AND AS DIRECTED BY THE ENGINEER. TEMPORARY PAVEMENT MARKINGS AND REMOVAL SHALL BE INCIDENTAL TO TRAFFIC CONTROL ITEMS.

ALL SAW CUTS NECESSARY TO COMPLETE THE WORK DETAILED IN THESE PLANS SHALL BE INCLUDED IN THE COST OF THE VARIOUS PAY ITEMS INVOLVED.

GRADING AND SHAPING DITCHES SHALL BE FROM STA. 733+15 TO STA. 736+50 RT EXCLUDING THE CULVERT REPLACEMENT WORK AREA AND FROM STA 734+90 TO STA. 735+20 LT.

EMBANKMENT WITHIN CULVERT REPLACEMENT WORK AREA SHALL BE CONSTRUCTED ACCORDING TO SECTION 205 OF THE STANDARD SPECIFICATIONS AND AS SHOWN ON THE PLANS AND SHALL BE CONSIDERED INCIDENTAL TO THE CULVERT INSTALLATION.

BILL OF MATERIALS

DESCRIPTION	UNIT	QUANTITY
GRADING AND SHAPING DITCHES	FOOT	296
SEEDING, CLASS 2A	ACRE	0.2
NITROGEN FERTILIZER NUTRIENT	POUND	17
PHOSPHORUS FERTILIZER NUTRIENT	POUND	17
POTASSIUM FERTILIZER NUTRIENT	POUND	17
MULCH, METHOD 2	ACRE	0.2
HOT-MIX ASPHALT BASE COURSE WIDENING, 8"	SQ YD	336
CLASS D PATCHES, TYPE IV, 17 INCH	SQ YD	125
AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	15
TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
TRAFFIC CONTROL SURVEILLANCE	CAL DA	35
TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
TEMPORARY CONCRETE BARRIER	FOOT	450
RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	275
IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2
IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2

PAVEMENT MARKING SCHEDULE				
LOCATION		WHITE TEMPORARY PAVEMENT MARKING LINE 4" (FOOT)	WHITE THERMOPLASTIC PAVEMENT MARKING LINE 24" (FOOT)	
STATION	TO STATION			
BASE BID				
STAGE I				
732+06	TO 737+07	501		
733+69	TO 735+91	222		
	730+89.5		12	
	738+59.5		12	
STAGE II				
731+50	TO 738+50	702		
732+74	TO 736+74	400		
	730+89.5		12	
	738+59.5		12	
TOTAL		1,825	48	

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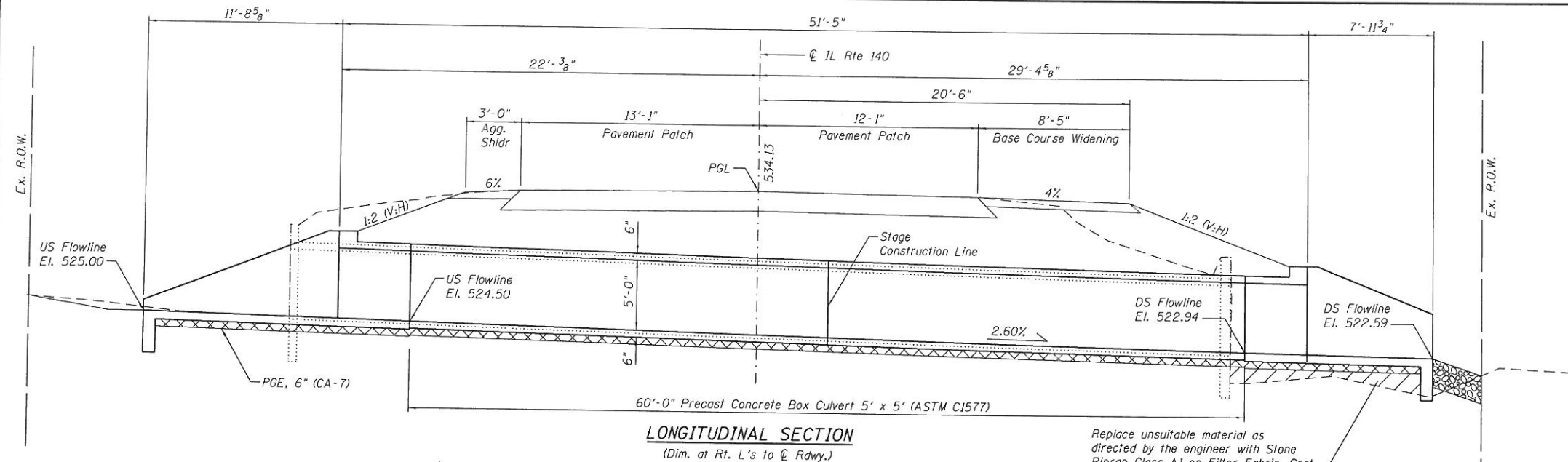
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL
STA. 734 + 80.00 CUVERT REPLACEMENT - S.N. 060-2490

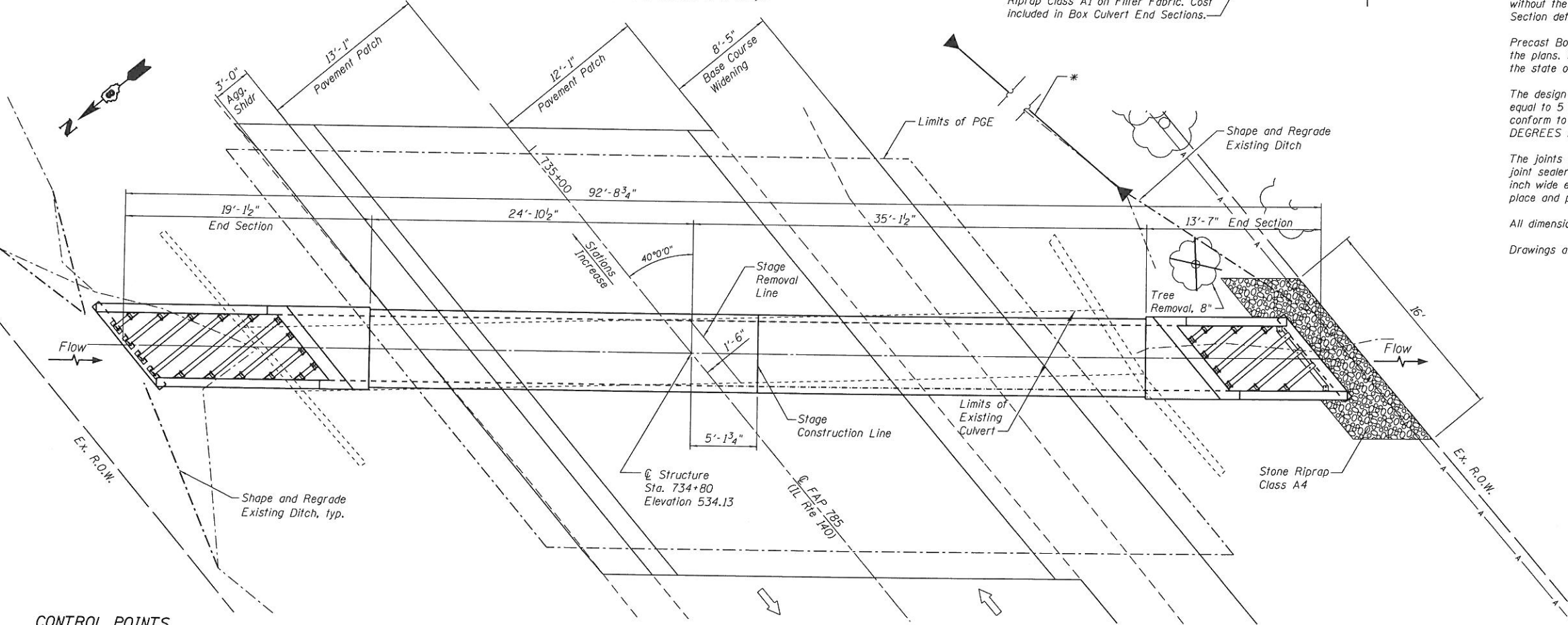
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(133, 134, 135) RS-4	MADISON	28	20
CONTRACT NO. 76C58			ILLINOIS FED. AID PROJECT	

1" = 30' SHEET NO. OF SHEETS STA. TO STA.



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

Replace unsuitable material as directed by the engineer with Stone Riprap Class A1 on Filter Fabric. Cost included in Box Culvert End Sections.



PLAN

GENERAL NOTES

- Build tops of headwalls parallel to the grade lines.
- All construction joints shall be bonded according to Article 503.09 of the Standard Specifications.
- Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60.
- The 6" porous granular material required per Article 540.06 of the Standard Specifications shall also extend beneath the Box Culvert End Sections and shall be considered included in the cost of Precast Concrete Box Culverts and Box Culvert End Sections.
- When lapping sheets of welded wire fabric, the overlap measured between the outermost cross wires of each fabric sheet shall not be less than 8".
- End Sections shall be paid for at the contract unit price per each for BOX CULVERT END SECTIONS, as outlined in section 540 of the Standard specifications.
- Class SI concrete shall be used throughout.
- Concrete, Rebar, and welded wire fabric quantities and lengths calculated for the cast-in-place End Sections may vary based on the precast box culverts supplied.
- Drain holes shall be provided in accordance with Article 503.11 of the Standard Specifications.
- The ends of the precast box sections adjacent to the end sections shall be formed without the male and female shapes specified in Article 8.1 of ASTM C1577. See End Section details.
- Precast Box Culvert End Sections may be used in lieu of cast-in-place as shown on the plans. Shop Drawings and calculations sealed by a structural engineer registered in the state of Illinois will be required.
- The design fill height for this box culvert is greater than 2 feet and less than or equal to 5 feet. The Skew is 40 degrees. The precast box culvert sections shall conform to BDE special provision "CONCRETE BOX CULVERTS WITH SKEWS > 30 DEGREES AND DESIGN FILL <= 5 FEET (BDE)".
- The joints between precast box sections shall be sealed, all voids filled with a mastic joint sealer. In addition the joints shall be externally sealed on all four sides with a 1/2 inch wide external sealing band. The seal shall be centered over the joint, secured in place and protected during the backfilling process.

All dimensions are in FEET (') - INCHES (") unless otherwise noted.
Drawings are not to scale.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures	Each	1
Precast Concrete Box Culverts 5' x 5'	Foot	60
Box Culvert End Sections, Culvert No. 1	Each	2
Traversable Pipe Grate	Foot	75
Granular Backfill for Structures	Cu. Yd.	300
Stone Riprap, Class A4	Sq. Yd.	7
Filter Fabric	Sq. Yd.	7
Temporary Soil Retention System	Sq. Ft.	400
Tree Removal (6-15 Units Diameter)	Unit	8
Pipe Culvert Removal	Foot	42
Pipe Culverts, Class D, Type I, 18"	Foot	53
Steel End Section	Each	2
Inlet and Pipe Protection	Each	1

* Remove exist. pipe culvert and replace with Pipe Culvert, Class D, Type I, 18" with Steel End Sections
D.S. : Sta. 734+70, Off. 33.7 Rt., Elev. 527.0
U.S. : Sta. 735+21.8, Off. 24.7 Rt., Elev. 532.2 (Match Existing)

CONTROL POINTS

- Benchmark: IDOT BM 140-11 Chiseled "□" on east headwall, north side of IL 140. Elev. = 531.125
- Sta. 729+30.00 : Mag. nail in pavement
N: 809,559.275
E: 376,273.716
- Sta. 734+80.00 : Mag. nail in pavement
N: 809,557.912
E: 376,823.714
- Sta. 740+80.00 : Mag. nail in pavement
N: 809,556.425
E: 377,423.712

WATERWAY INFORMATION

Drainage Area = 0.14 Sq. mi Low Grade Elev. 534.1 @ Sta. 734+80

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El. Prop.
			Exist.	Prop.		Exist.	Prop.	
Design	50	167	25	25			530.1	530.1
Base	100	198	25	25			531.0	531.0
Overtopping	-	283	25	25			534.1	534.1
Max. Calc.								

DESIGN STRESSES

PRECAST UNITS
f'c = 5,000 psi
fy = 65,000 psi (Welded wire fabric)

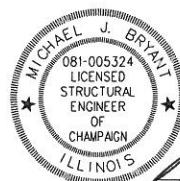
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (reinforcement)
fy = 65,000 psi (Welded wire fabric)

LOADING HL-93

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

INDEX OF SHEETS

1. General Plan and Elevations.
2. Stage Construction Plan.
- 3-4. Box Culvert End Section Details.
5. Steel Pipe Grate System.
6. Details - Granular Backfill.
7. Soil Borings.
8. Cross Sections.



MICHAEL J. BRYANT, S.E.
LICENSED STRUCTURAL ENGINEER
ILLINOIS NO. 5324 EXPIRES 11-30-14
DATE 3/19/14



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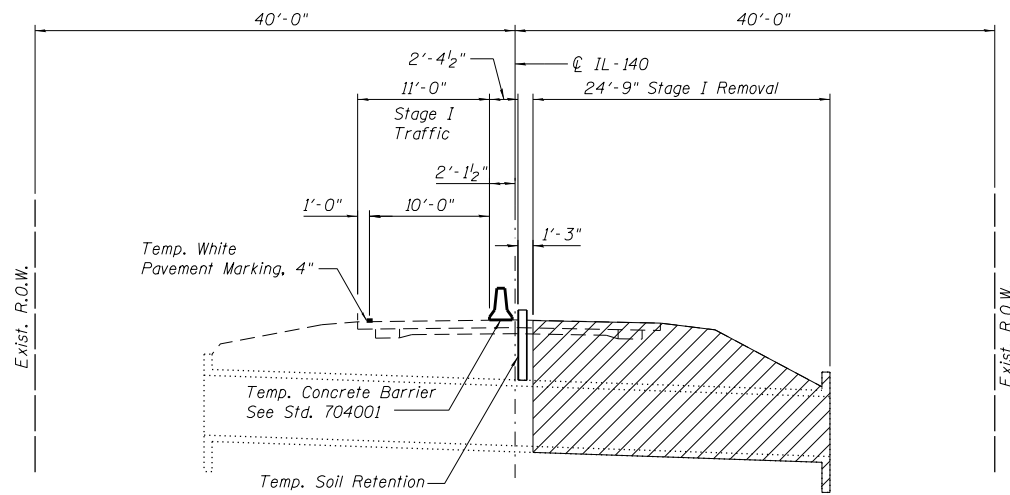
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION
STA. 734 + 80.00 CULVERT REPLACEMENT - S.N. 060-2490**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(133,134,135)RS-4	MADISON	28	21
			CONTRACT NO. 76G58	

SHEET NO. 1 OF 8 SHEETS

ILLINOIS FED. AID PROJECT

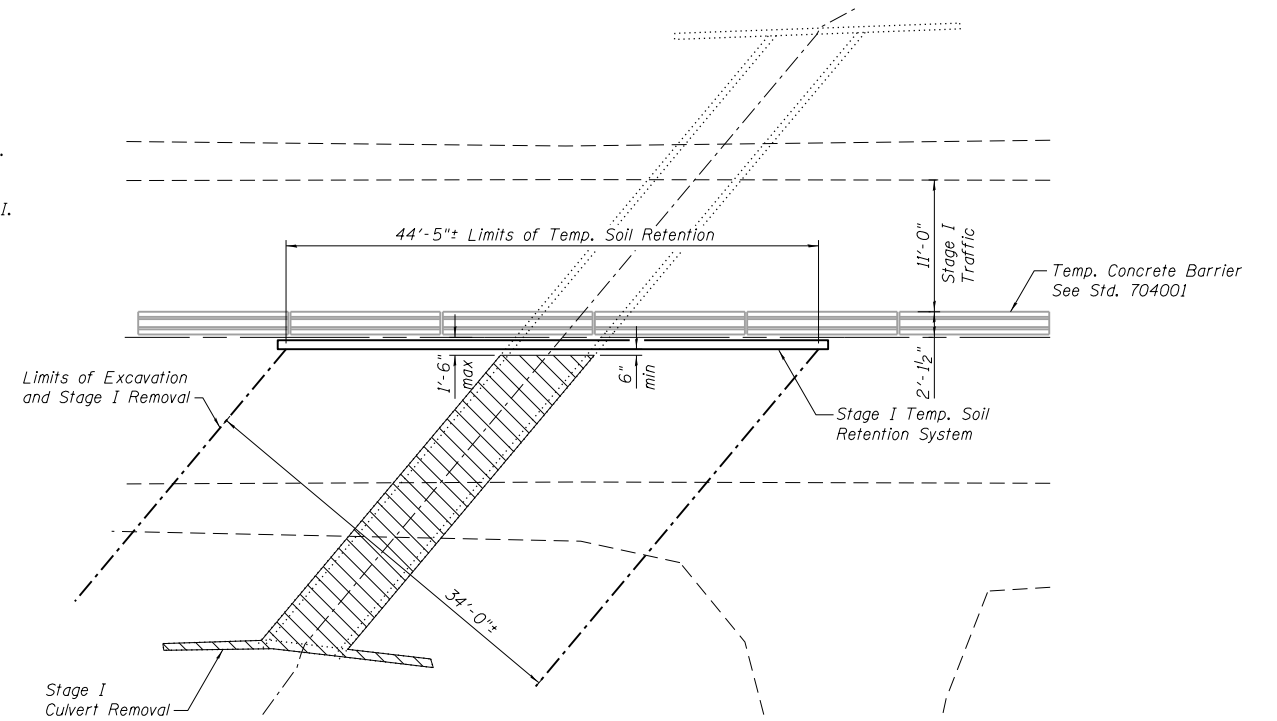


STAGE I - CROSS SECTION

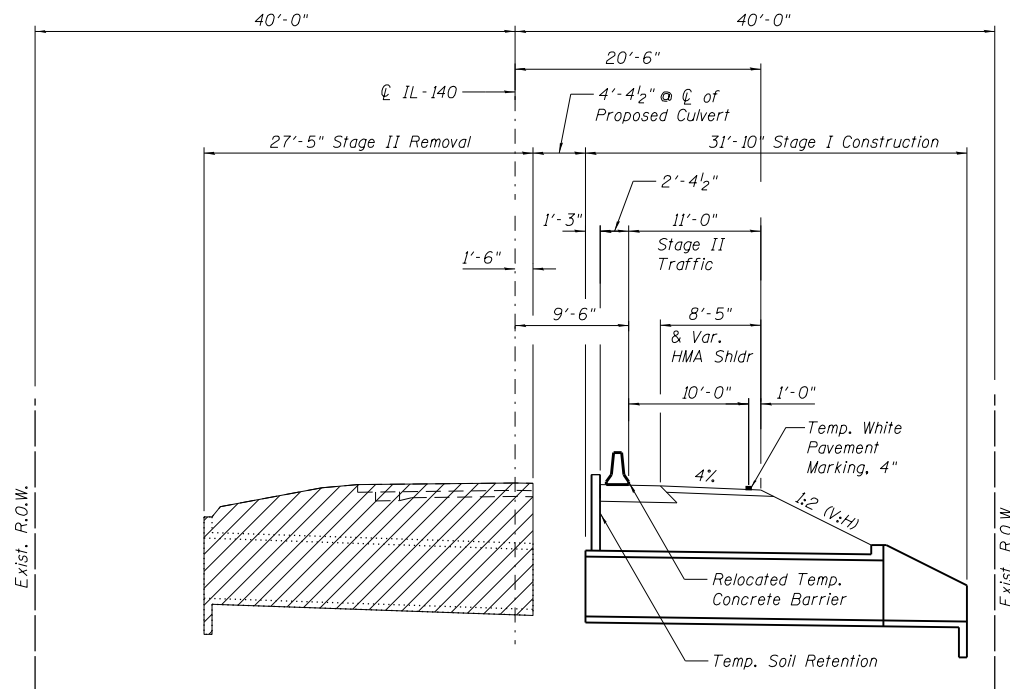
(Looking East)
(Dim. at Rt. L's to \varnothing Rdwy.)

STAGE CONSTRUCTION SEQUENCE

1. Place Stage I Traffic Control.
2. Remove Stage I Pavement.
3. Install Temporary Soil Retention System for Stage I.
4. Excavate, Remove Stage I Existing Culvert.
5. Construct Stage I Culvert.
6. Install Temporary Soil Retention System for Stage II.
7. Backfill Culvert & Construct Pavement and Widening.
8. Move Traffic Control for Stage II.
9. Remove Stage II Pavement and Culvert.
10. Construct Stage II Culvert.
11. Backfill Culvert.
12. Remove Temporary Soil Retention System.
13. Construct Roadway.
14. Remove Traffic Control.

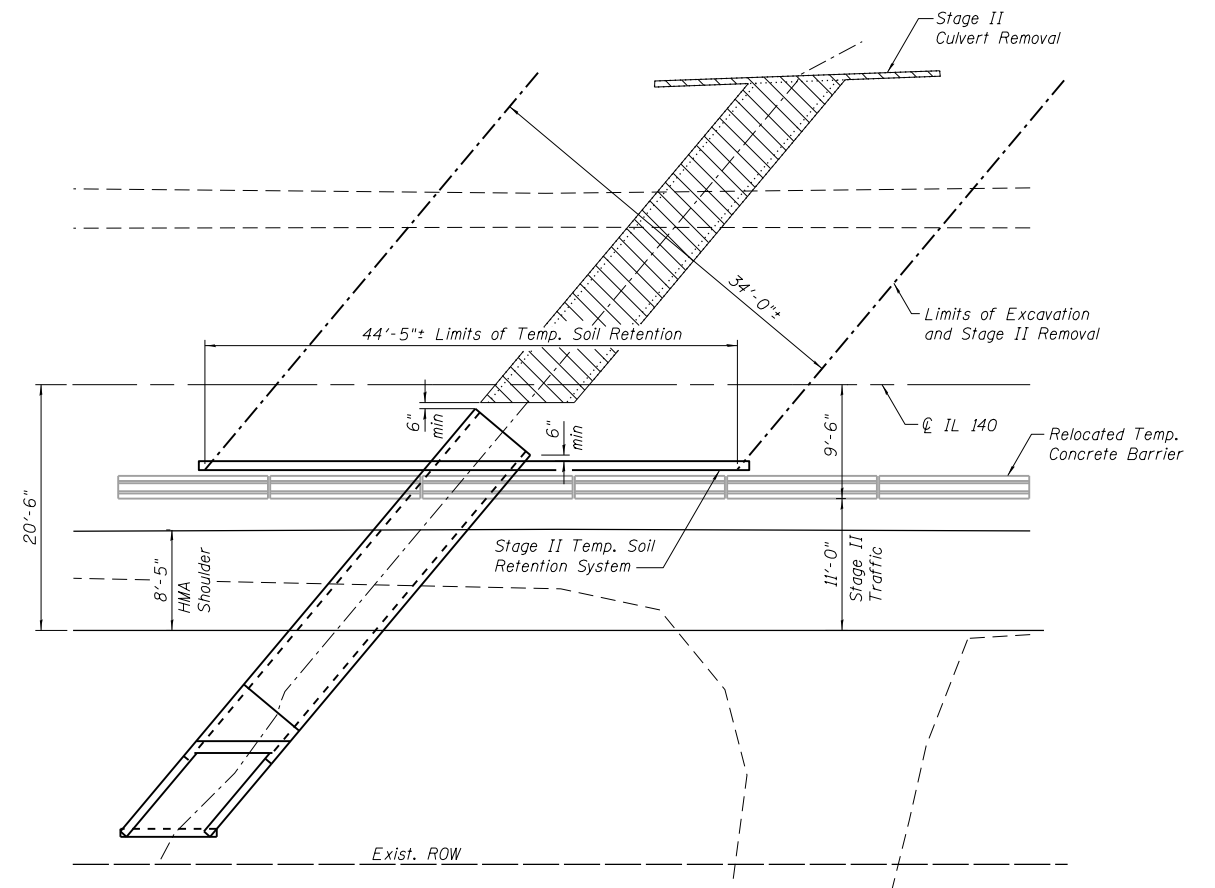


STAGE I - PLAN



STAGE II - CROSS SECTION

(Looking East)
(Dim. at Rt. L's to \varnothing Rdwy.)



STAGE II - PLAN

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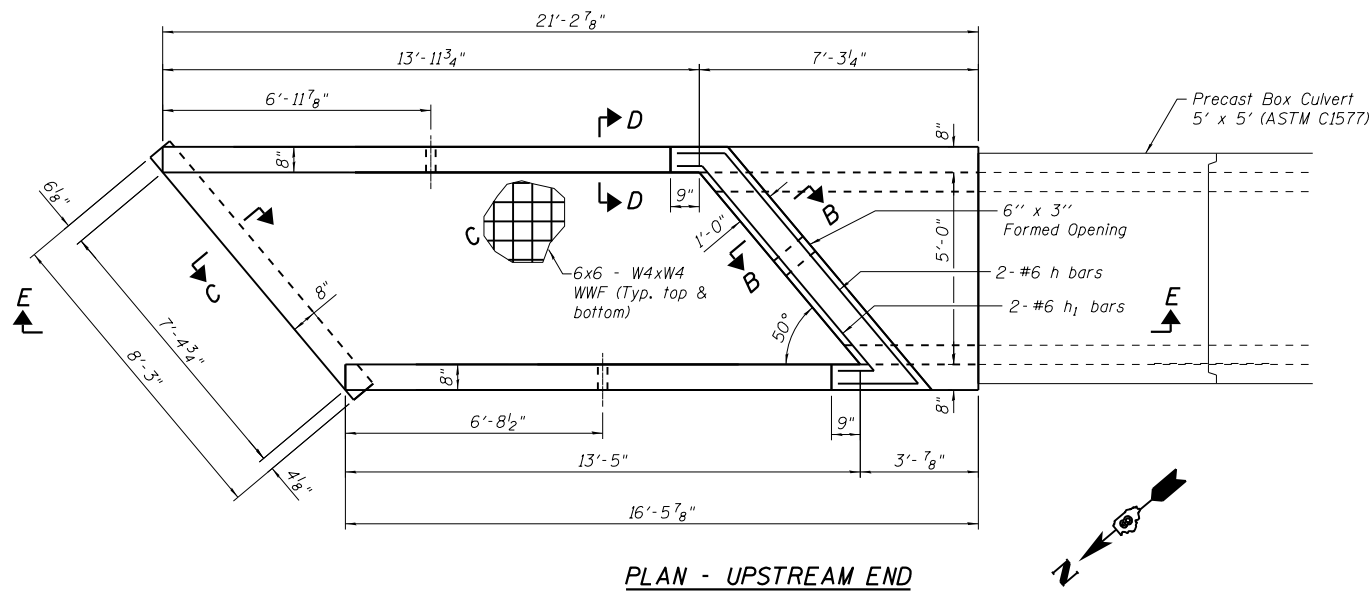
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION PLAN
STA. 734 + 80.00 CULVERT REPLACEMENT - S.N. 060-2490**

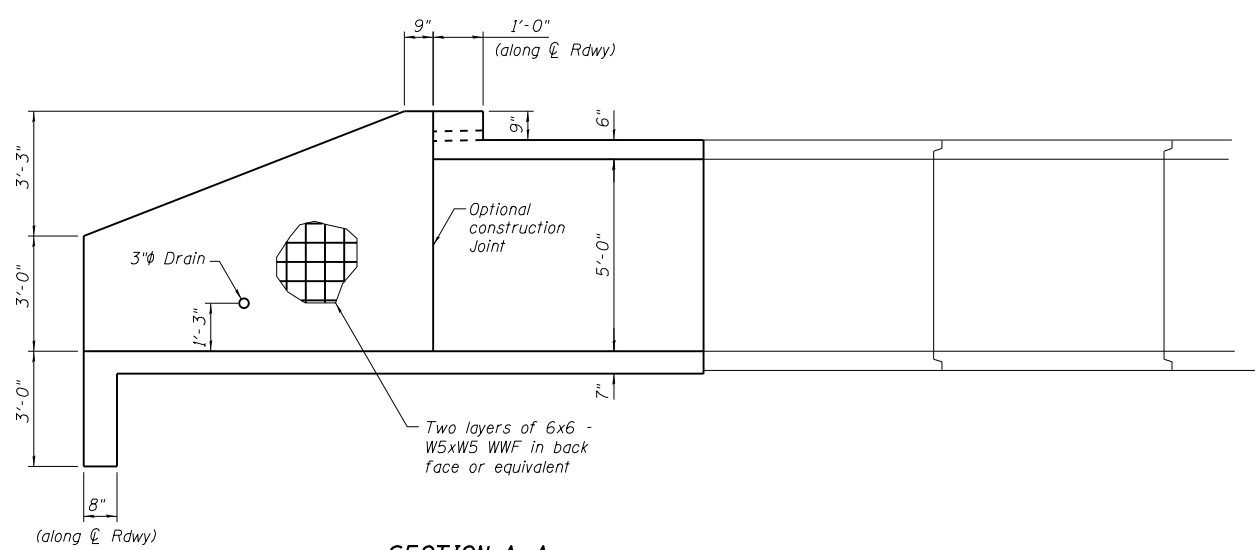
SHEET NO. 2 OF 8 SHEETS

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CONTRACT NO. 76C58				

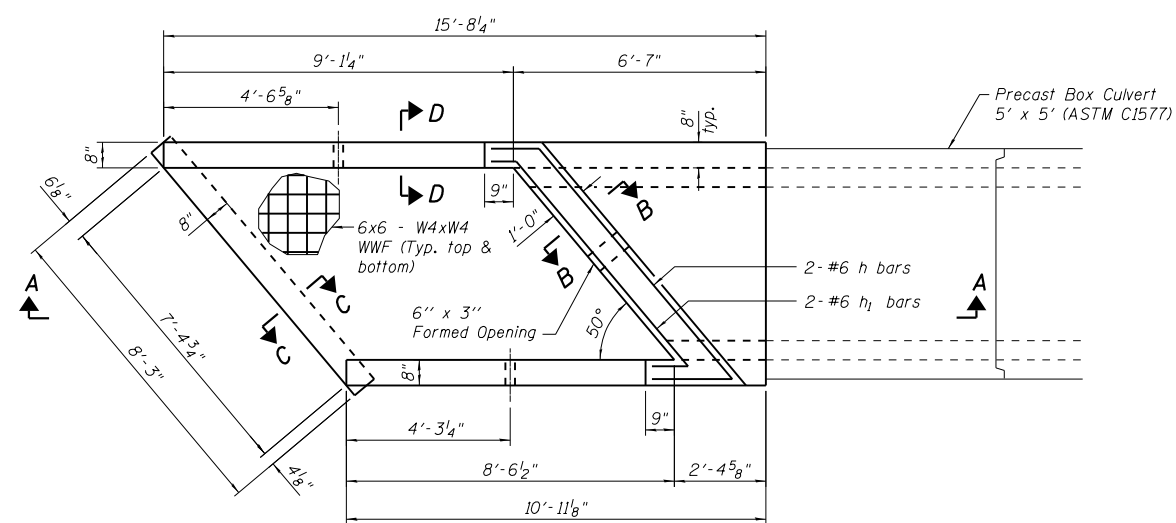
ILLINOIS FED. AID PROJECT



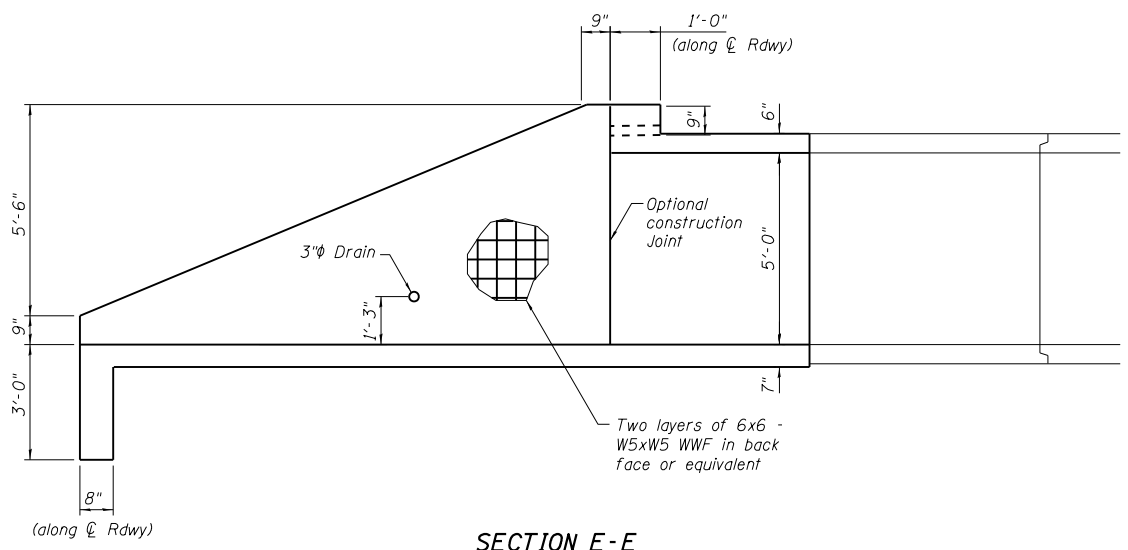
PLAN - UPSTREAM END



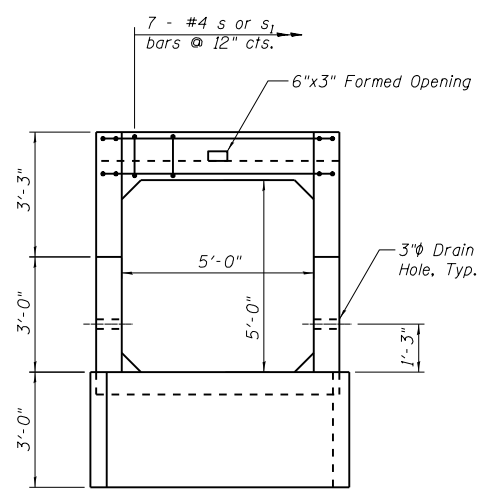
SECTION A-A



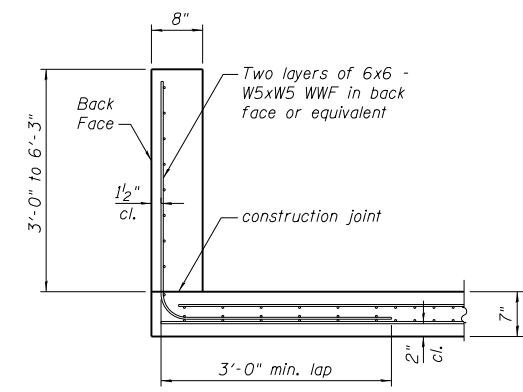
PLAN - DOWNSTREAM END



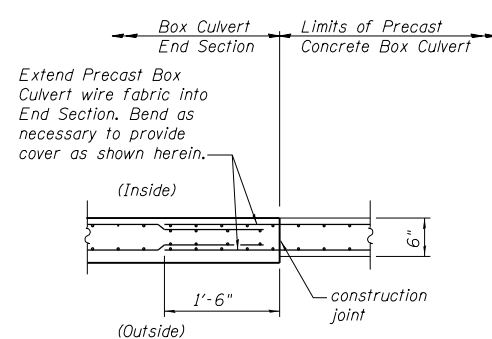
SECTION E-E



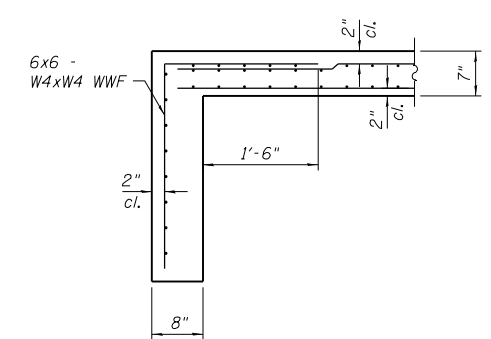
END VIEW



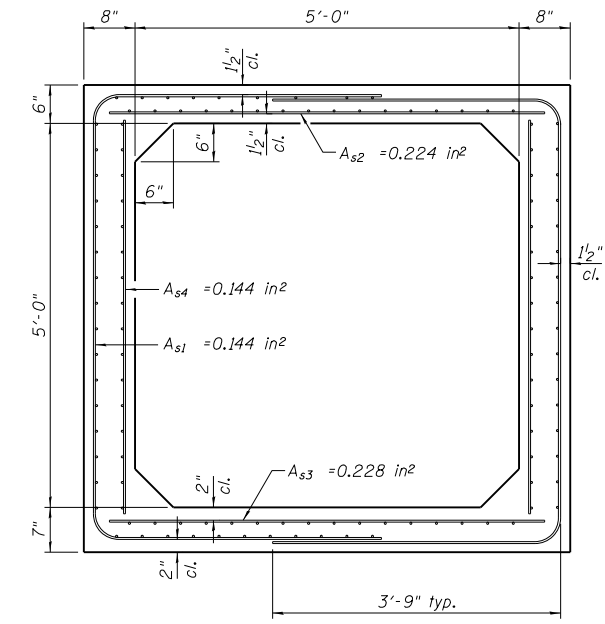
SECTION D-D



CAST-IN-PLACE TO PRECAST JOINT



SECTION C-C



SECTION THRU END SECTION BARREL

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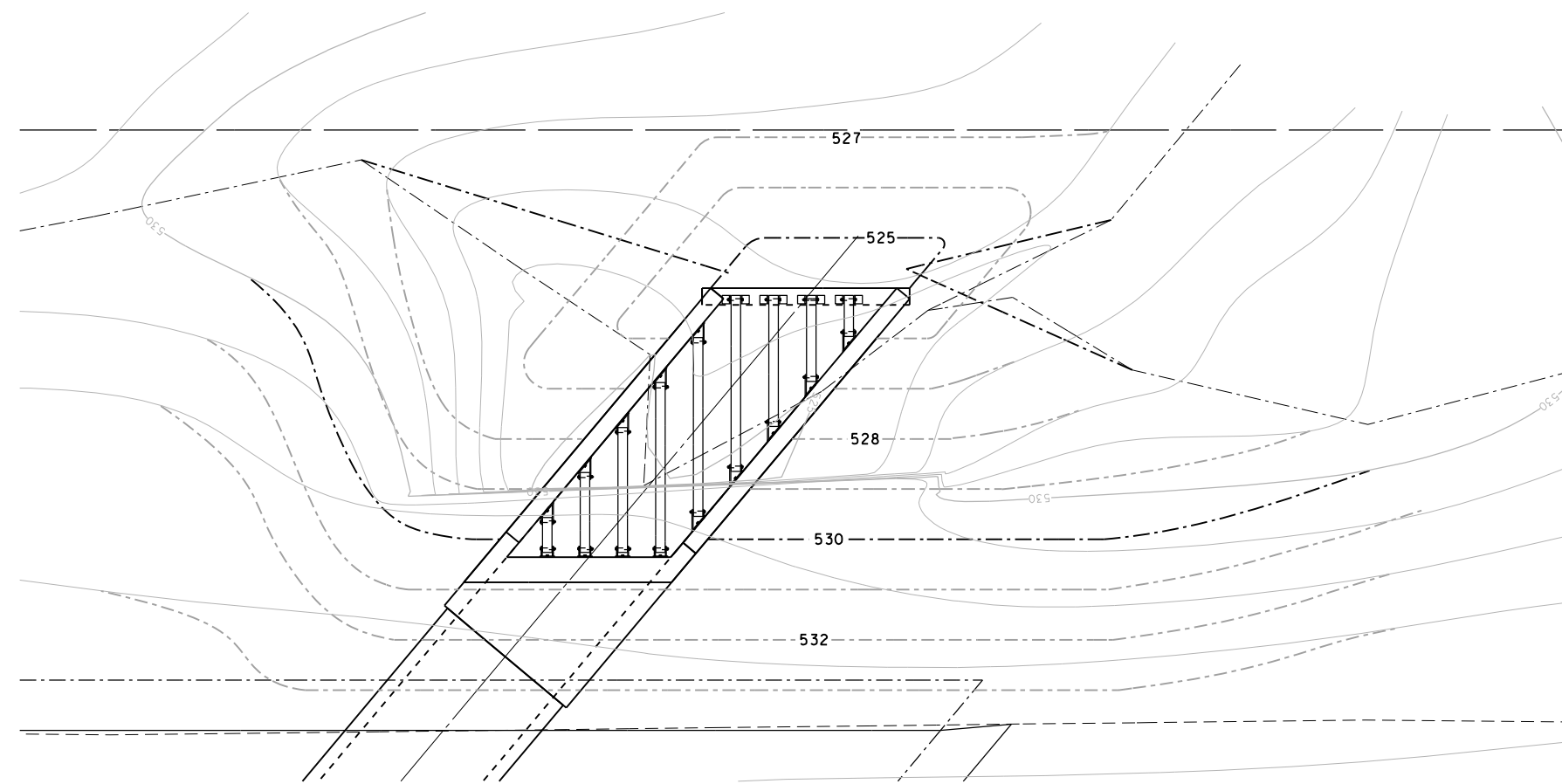
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BOX CULVERT END SECTION DETAILS
STA. 734 + 80.00 CULVERT REPLACEMENT - S.N. 060-2490

SHEET NO. 3 OF 8 SHEETS

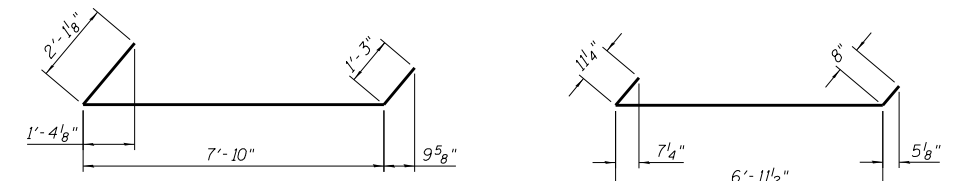
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(133,134,135)RS-4	MADISON	28	23
CONTRACT NO. 76C58				

ILLINOIS FED. AID PROJECT



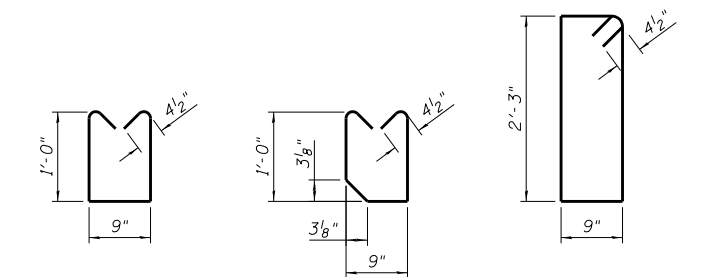
UPSTREAM END GRADING PLAN

Grading to be adjusted to fit site conditions. Slopes shall be 1:2 min.



BAR h

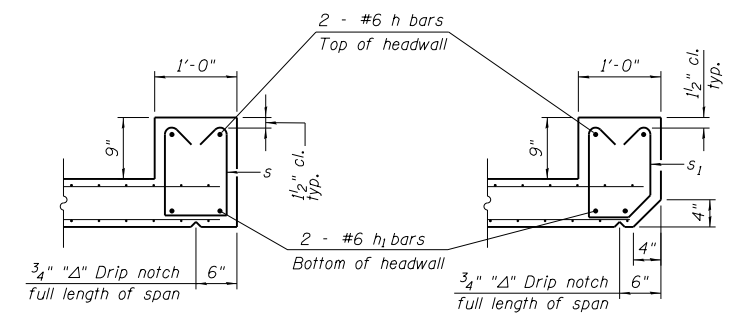
BAR h1



BAR s

BAR s1

BAR s2

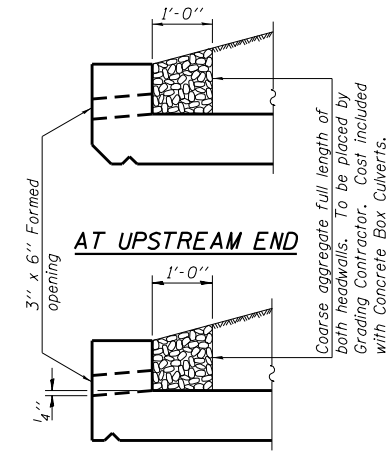


SECTION B-B
(At downstream end)

SECTION B-B
(At upstream end)

GENERAL NOTES

- Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60.
- 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.
- 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 and 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.
- Reinforcement bars designated (E) shall be epoxy coated.
- Bonded construction joints shall be prepared accordingly to Article 503.09 of the Standard Specifications.



DRAIN DETAIL

BILL OF MATERIAL

For Information Only
(Downstream End)

Bar	No.	Size	Length	Shape
h	2	#6	11'-2"	U
h1	2	#6	8'-7"	U
h2	6	#5	8'-0"	—
s	7	#4	3'-6"	U
			Class SI Concrete	Cu. Yd. 6.2
			Reinforcement Bars	Pound 130
			Welded Wire Fabric	Sq. Ft. 390

BILL OF MATERIAL

For Information Only
(Upstream End)

Bar	No.	Size	Length	Shape
h	4	#6	11'-2"	U
h1	4	#6	8'-7"	U
h2	6	#5	8'-0"	—
s1	7	#4	3'-4"	U
			Class SI Concrete	Cu. Yd. 8.8
			Reinforcement Bars	Pound 130
			Welded Wire Fabric	Sq. Ft. 490

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BOX CULVERT END SECTION DETAILS
STA. 734 + 80.00 CULVERT REPLACEMENT - S.N. 060-2490

SHEET NO. 4 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(133,134,135)RS-4	MADISON	28	24

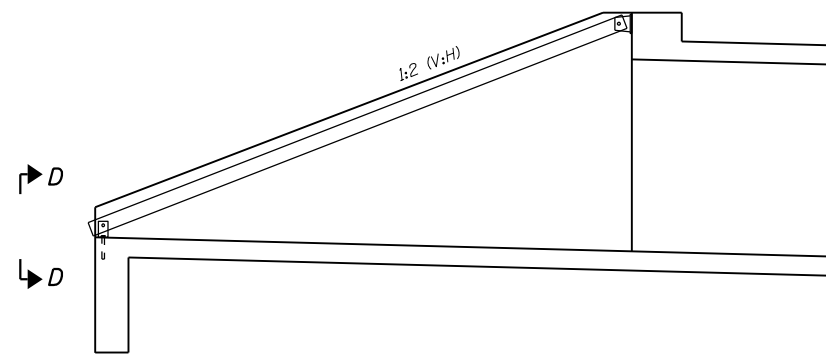
CONTRACT NO. 76C58

ILLINOIS FED. AID PROJECT

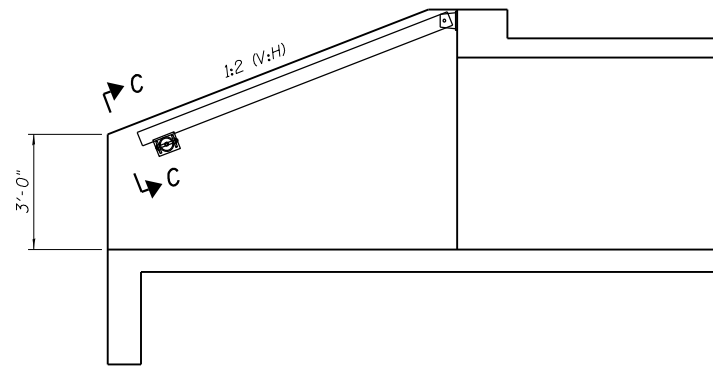
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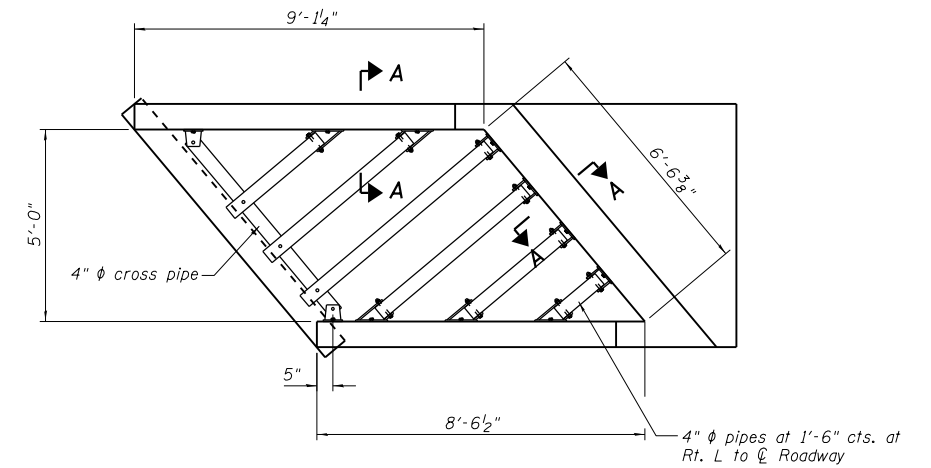
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PLOT DATE =	CHECKED -	REVISED -



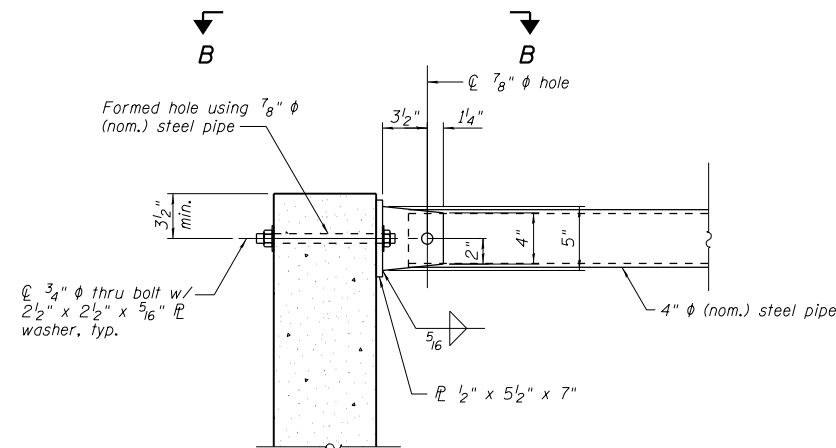
UPSTREAM END LONGITUDINAL SECTION



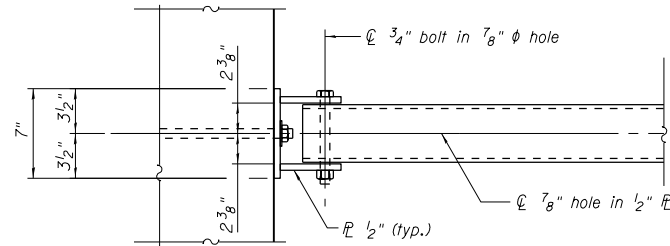
DOWNSTREAM END LONGITUDINAL SECTION



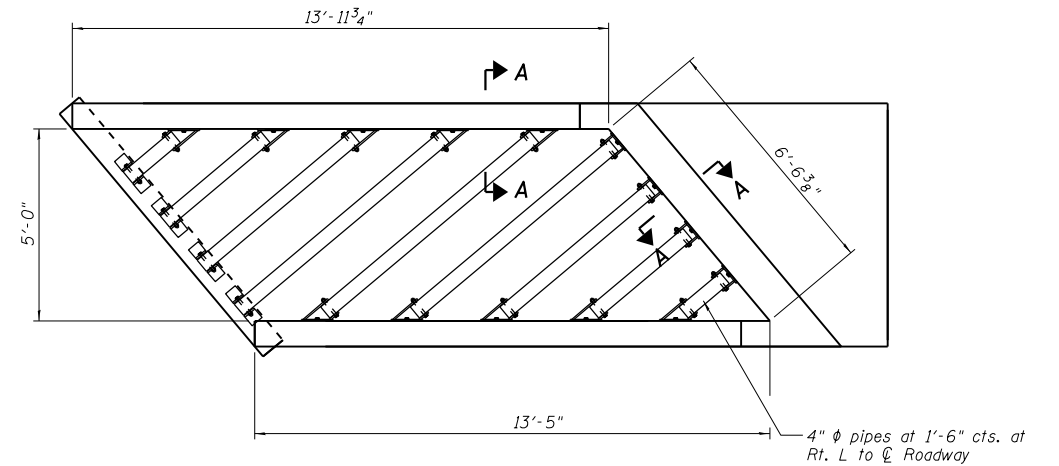
DOWNSTREAM END PLAN VIEW



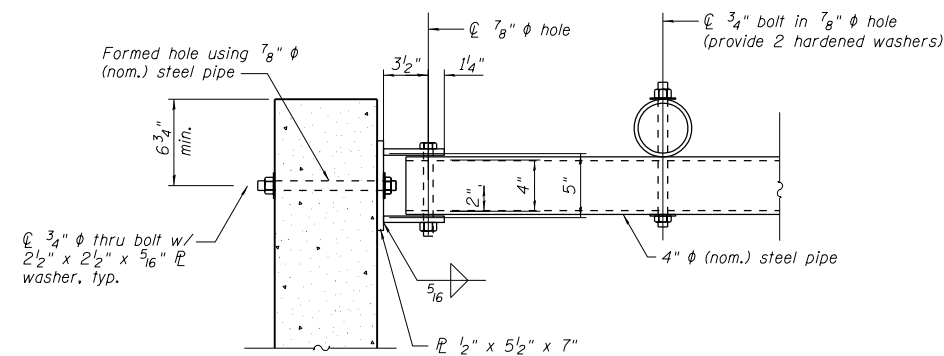
SECTION A-A



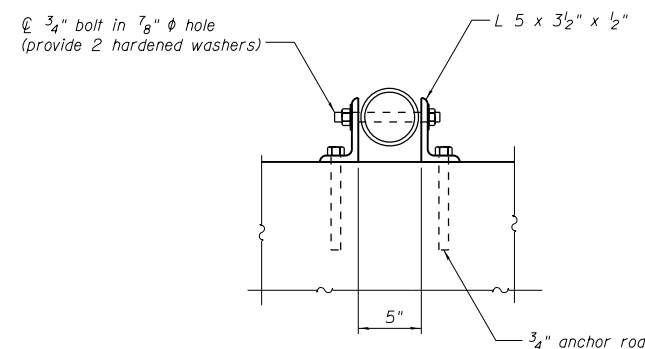
VIEW B-B



UPSTREAM END PLAN VIEW



SECTION C-C



SECTION D-D

GENERAL NOTES

Length and number of steel pipes shall be determined by the contractor. All steel pipe shall be standard weight (Sch. 40) unless otherwise noted.

All components of the steel pipe grate system shall be galvanized according to the requirements of AASHTO M11 OR M232 as applicable.

Fabrication of the steel pipe grate system shall conform to the requirements of section 505 of the Standard Specifications unless otherwise noted.

Structural steel shapes and plates shall conform to the requirements of Article 1006.04 of the Standard Specifications. Steel pipes shall conform to the requirements of ASTM A 53 (type E or S), Grade B.

Anchor rods shall conform to the requirements of ASTM F1544, Grade 105. Anchor rods shall be drilled and epoxy grouted according to the requirements of section 584 of the Standard Specifications. The chemical adhesive system shall be capable of achieving a minimum proof load of 5000 pounds and an ultimate shear capacity of 8000 pounds.

Bolts shall conform to the requirements of Article 1006.08 of the Standard Specifications.

The minimum edge distance from the center of a hole to the free edge of a structural shape or plate shall be 1 1/2" unless noted otherwise.

Bolts and anchor rods shall be snug tightened by a few impacts of an impact wrench or the full force of a worker using an ordinary spud wrench.

All cost associated with fabricating, furnishing, and installing the steel pipe grate system shall be included in the contract unit price for Traversable Pipe Grates.

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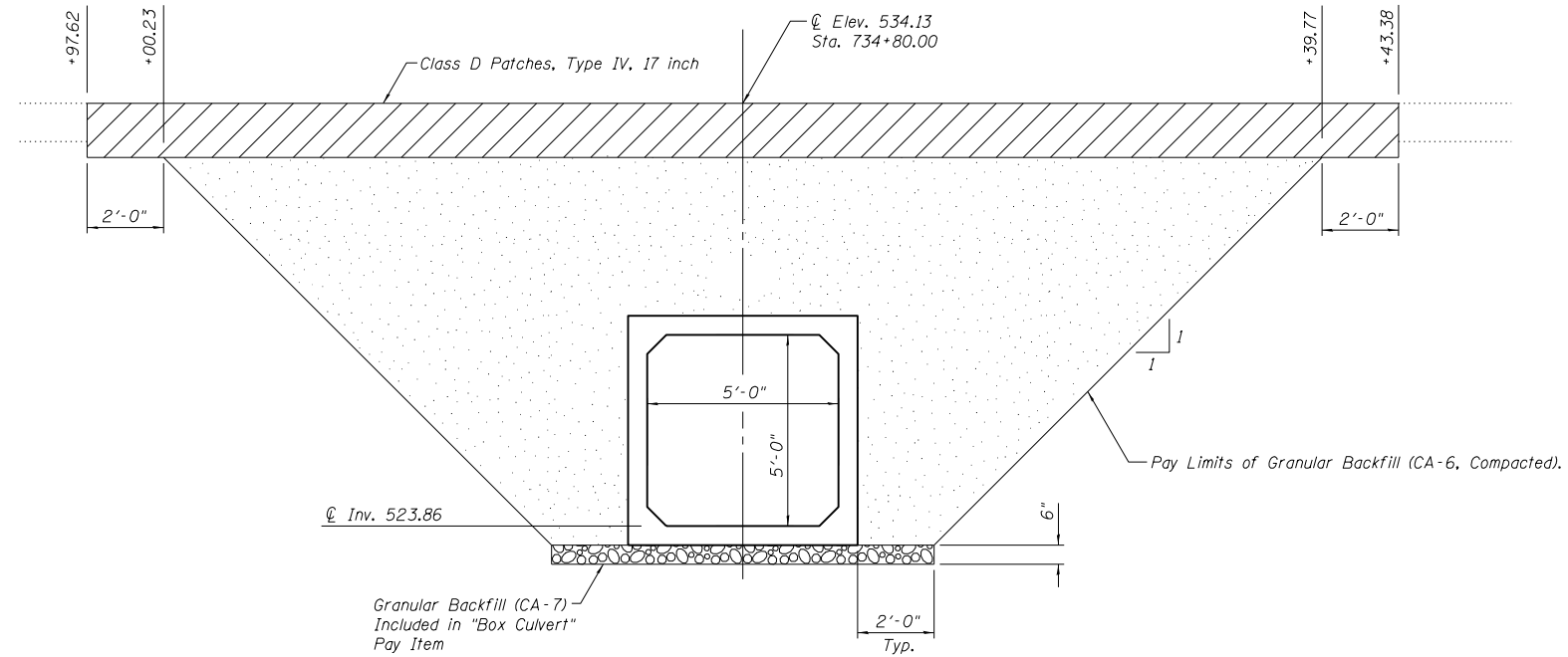
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL PIPE GRATE SYSTEM
STA. 734 + 80.00 CULVERT REPLACEMENT - S.N. 060-2490

SHEET NO. 5 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(133,134,135)RS-4	MADISON	28	25
CONTRACT NO. 76C58				
ILLINOIS FED. AID PROJECT				



SECTION THRU BARREL
(Stations along CL Roadway)

GENERAL NOTES

Work shown in this detail shall be performed in accordance with applicable portions of sections 207 and 540 of the Standard Specifications.

Porous Granular Material shall extend 2 feet beyond the outside shoulder.

This work shall be paid for at the contract unit price per cubic yard for Granular Backfill for Structures.

Excavation for the proposed Box Culvert and Box Culvert End Sections shall be considered included in the pay item "Precast Concrete Box Culverts 5' x 5'".

ITEM	UNIT	TOTAL
Granular Backfill for Structures	Cu. Yd.	166

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PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS - GRANULAR BACKFIL
STA. 734 + 80.00 CULVERT REPLACEMENT - S.N. 060-2490

SHEET NO. 6 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(133,134,135)RS-4	MADISON	28	26
			CONTRACT NO. 76058	
ILLINOIS FED. AID PROJECT				

HOLCOMB FOUNDATION ENGINEERING INC. P.O. Box 88 618-529-5262 Carbondale, Ill. 62903 618-457-8991 fax Page 1 of 1											
Bridge Foundation Boring Log											
Project: <u>H-14001</u> Bridge <u>Route 140</u> Date: <u>1/14/2014</u>				Section: _____ Station: _____				Bored by: <u>B. Schwartz</u>			
Structure: _____				County: <u>Madison</u>				Checked By: <u>T. Holcomb</u>			
Boring No: <u>1</u>		Station: _____		Offset: _____		Surface Water Elev. _____		Ground Water Elev. <u>515.5</u>		Upon Completion <u>518.5</u>	
Elevation		N		Qu		%		Elevation		N	
534.0		0		0		0		534.0		0	
2" Crushed Stone Brown Silty CLAY (A-6)											
528.0		4		0.85		27		504.0		-30	
Dark Brown Silty CLAY (A-6)											
(*) US 524.52											
End of Boring @ -30.0'											
525.5		6		1.45		23		525.5		-30	
Brown Silty CLAY (A-6)											
523.0		11		--		20		523.0		-35	
Brown Clayey SAND (A-2-4)											
518.0		21		4.55		10		518.0		-40	
Gray Silty CLAY (A-6)											
515.5		23		4.65		12		515.5		-20	
Gray Sandy CLAY (A-6)											
512.75		20		3.75		12		512.75		-20	
Gray Silty CLAY (A-6) with sand and pebbles											
N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"				Qu - Unconfined Compressive Strength in tons/sq.ft. w - Water Content - percentage of oven dry weight-%				B = Bulge Failure S = Shear Failure E = Estimated Value P = Penetrometer			

(*) Shown too high in Boring Log

HOLCOMB FOUNDATION ENGINEERING INC. P.O. Box 88 618-529-5262 Carbondale, Ill. 62903 618-457-8991 fax Page 1 of 1											
Bridge Foundation Boring Log											
Project: <u>H-14001</u> Bridge <u>Route 140</u> Date: <u>1/14/2014</u>				Section: _____ Station: _____				Bored by: <u>B. Schwartz</u>			
Structure: _____				County: <u>Madison</u>				Checked By: <u>T. Holcomb</u>			
Boring No: <u>2</u>		Station: _____		Offset: _____		Surface Water Elev. _____		Ground Water Elev. <u>Dry</u>		Upon Completion _____	
Elevation		N		Qu		%		Elevation		N	
533.75		0		0		0		533.75		0	
2" Crushed Stone Brown Silty CLAY (A-6) with sand and pebbles											
527.75		4		0.80		28		527.75		-30	
Brown Mottled Gray Silty CLAY (A-6)											
End of Boring @ -30.0'											
525.25		6		0.80		28		525.25		-30	
Gray Mottled Brown Clayey SILT (A-4)											
522.75		10		1.35		26		522.75		-35	
DS 522.73											
Brown Mottled Gray Silty CLAY (A-6)											
512.75		24		4.55		11		512.75		-15	
Gray Silty CLAY (A-6) with sand and pebbles											
512.75		32		--		10		512.75		-40	
Gray Silty CLAY (A-6) with sand and pebbles											
N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"				Qu - Unconfined Compressive Strength in tons/sq.ft. w - Water Content - percentage of oven dry weight-%				B = Bulge Failure S = Shear Failure E = Estimated Value P = Penetrometer			

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

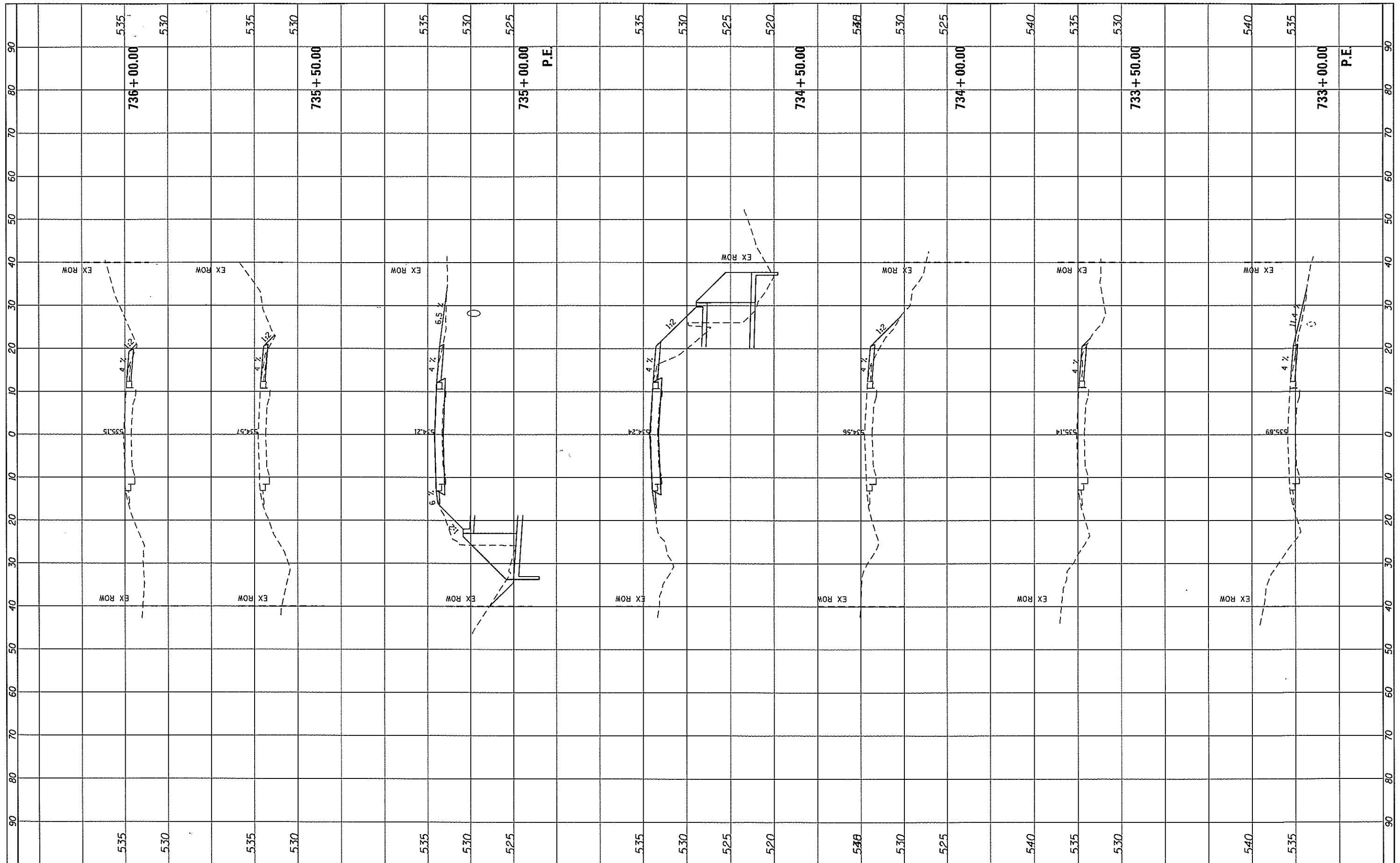
**SOIL BORINGS
STA. 734 + 80.00 CULVERT REPLACEMENT - S.N. 060-2490**

SHEET NO. 7 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(133,134,135)RS-4	MADISON	28	27
CONTRACT NO. 76C58				
ILLINOIS FED. AID PROJECT				

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

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



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 PLOT DATE = 3/20/2014

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL 140 CROSS SECTIONS
 SCALE: SHEET 8 OF 8 SHEETS STA. 733+00.00 TO STA. 736+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
785	(133,134,135)RS-4	MADISON	28	28
CONTRACT NO. 76658			ILLINOIS FED. AID PROJECT	