

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	114B-1(1) & 114B-1(2)	FAYETTE	54	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 74110	
• F.A.P. RTE. 750, F.A.S. RTE. 719				

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF HIGHWAY STANDARDS
3	GENERAL NOTES
4-7	SUMMARY OF QUANTITIES SECTION 114B-1(1) PLANS
8	TYPICAL SECTIONS
9-10	SCHEDULE OF QUANTITIES
11	ALIGNMENT, TIES, & BENCHMARKS
12-14	PLAN AND PROFILE SHEET
15	ENTRANCE DETAILS
16-18	MAINTENANCE OF TRAFFIC PLANS
19-27	STRUCTURE PLANS
28-30	CROSS SECTIONS
SECTION 114B-1(2) PLANS	
31-32	TYPICAL SECTIONS
33-34	SCHEDULE OF QUANTITIES
35	ALIGNMENT, TIES, & BENCHMARKS
36	PLAN AND PROFILE SHEET
37	ENTRANCE DETAILS
38-41	MAINTENANCE OF TRAFFIC PLANS
42-50	STRUCTURE PLANS
51-54	CROSS SECTIONS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

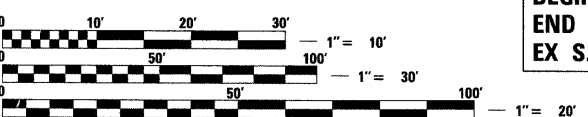
**PROPOSED  
HIGHWAY PLANS**

F.A.P. RTE. 750 (IL 185) & F.A.S. RTE. 719 (IL 185)

SECTION 114B-1(1) & 114B-1(2)  
**PROJECT ACF-ACRS-000S(691)**  
STRUCTURE REPLACEMENT  
FAYETTE COUNTY

C-97-074-05

**IDOT HIGHWAY STANDARDS**  
SEE SHEET 2

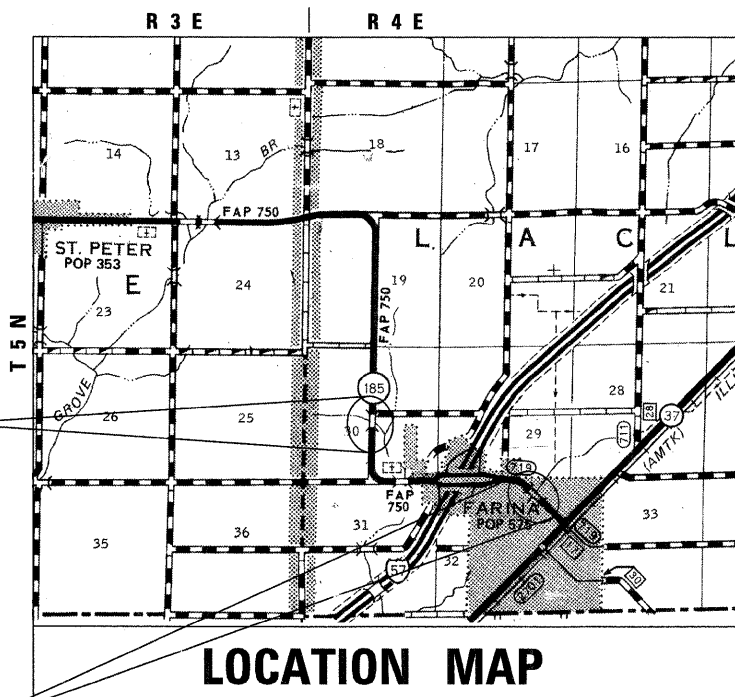


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

**ie** CONSULTANTS, INC.  
6420 SOUTH SIXTH STREET  
SPRINGFIELD, ILLINOIS 62712  
TEL. (217) 529-8027  
FAX (217) 529-4543  
WWW.IE-CONSULTANTS.COM

F.A.P. RTE. 750 - SECTION 114B-1(1)  
BEGIN IMPROVEMENTS STA. 936 + 41.00  
END IMPROVEMENTS STA. 942 + 58.00  
EX S.N. 026-0070 PR S.N. 026-2020

F.A.S. RTE. 719 - SECTION 114B-1(2)  
BEGIN IMPROVEMENTS STA. 1030 + 85.00  
END IMPROVEMENTS STA. 1036 + 25.00  
EX S.N. 026-0072 PR S.N. 026-2019



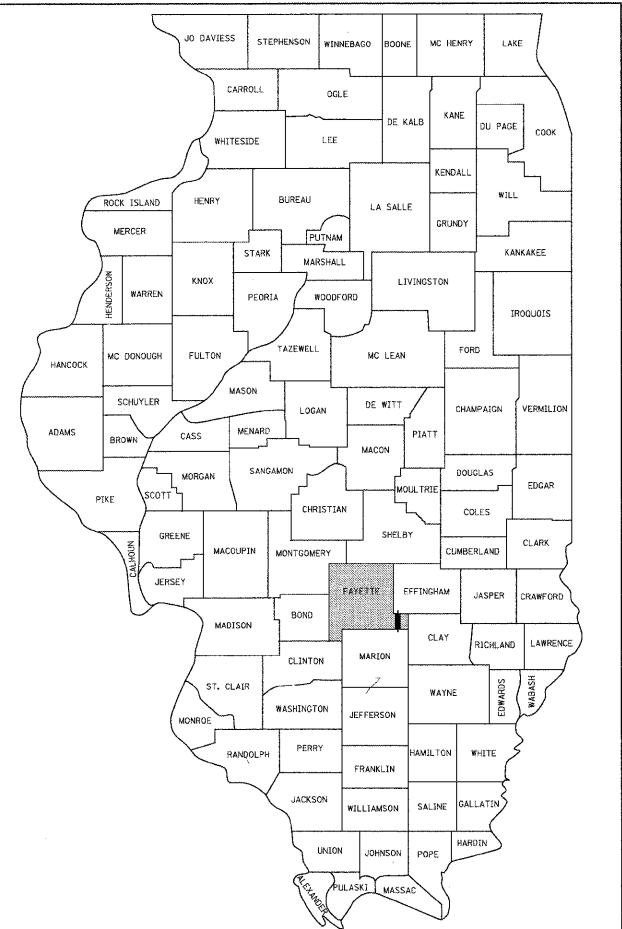
APPROXIMATE SCALE: 0 1 2 MILES

LENGTH OF SECTION 114B-1(1) = 617.00 FEET (0.117 MILES)  
LENGTH OF SECTION 114B-1(2) = 540.00 FEET (0.102 MILES)  
NET LENGTH = 1,157.00 FEET (0.219)  
SECTION 114B-1(1) CLASSIFICATION = RURAL MINOR ARTERIAL  
CURRENT ADT: 1,170 (2009) PROJECTED ADT: 1,740 (2031)  
SECTION 114B-1(2) CLASSIFICATION = RURAL MAJOR COLLECTOR  
CURRENT ADT: 2,350 (2007) PROJECTED ADT: 3,490 (2027)  
85% PV 8% SU 7% MU

CALL **J.U.L.I.E.** (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS)  
48 Hours (2 working days) Before You Dig.  
TOLL FREE: 1 (800) 892-0123 OR 811

PROJECT ENGINEER: MARK DAUGHERTY (217) 342-3951  
PROJECT MANAGER  
CONTRACT NO. 74110

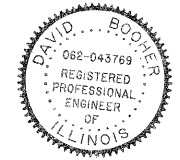
D-97-039-05



LOCATION OF SECTION INDICATED THUS: - ■ -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
SUBMITTED October 9 2009  
Roger L. Dinkels  
DEPUTY DIRECTOR OF HIGHWAYS, REGION FOUR ENGINEER  
December 4, 2009  
Charles G. Ingersoll  
ENGINEER OF DESIGN AND ENVIRONMENT  
December 4, 2009  
Christine M. Reed  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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



D R Booher  
DAVID R. BOOHER ILLINOIS P.E. 062-043769  
EXPIRES 11/30/2009  
DATE 9-29-09

## IDOT HIGHWAY STANDARDS

SHEET NO.	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
542401-01	METAL END SECTIONS FOR PIPE CULVERTS
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606201-02	TYPE B GUTTER (INLET, OUTLET AND ENTRANCE)
630001-08	STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-08	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
666001-01	RIGHT OF WAY MARKERS
667101-01	PERMANENT SURVEY MARKERS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-03	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-03	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS $\geq$ 45 MPH
701306-02	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS $\geq$ 45 MPH
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
701321-10	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-03	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS $>$ 45 MPH
701801-04	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
704001-06	TEMPORARY CONCRETE BARRIER
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

FILE NAME =	USER NAME = IE Consultants	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF HIGHWAY STANDARDS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
GA:\00026-5\CADD Sheets\0774110-sht-Std	standards.dgn	DRAWN -	REVISED -			* 114B-1(1) & 114B-1(2)	FAYETTE	54	2	
PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -	* F.A.P. RTE. 750, F.A.S. RTE. 719			CONTRACT NO. 74110				
PLOT DATE = 9/29/2009	DATE -	REVISED -	FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT				
SCALE:						SHEET NO.	OF	SHEETS	STA.	TO STA.

## GENERAL NOTES

1. ALL ELEVATIONS SHOWN ON THE PLANS ARE ESTABLISHED FROM U.S.G.S. MEAN SEA LEVEL DATUM.
2. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBERS LISTED IN THE INDEX OF SHEETS, OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
3. IN ACCORDANCE WITH STATE OF ILLINOIS P.A. 86-0674, THE CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES NOT MORE THAN 14 DAYS NOR LESS THAN 48 HOURS (EXCLUSIVE OF SATURDAYS, SUNDAYS, AND HOLIDAYS) IN ADVANCE OF THE START OF EXCAVATION OR DEMOLITION.
4. THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE, AND ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATIONS, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVE GROUND UTILITIES, REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5. IN ADDITION TO FIELD SURVEYS AND AERIAL SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
6. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OUTSIDE THE LIMITS OF RIGHT-OF-WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARDS SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
7. THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS.
8. GUARDRAIL MARKERS 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.
9. THE THICKNESS OF HOT-MIX ASPHALT SHOWN ON THE PLANS IS THE NORMAL THICKNESS. DEVIATIONS FROM THE NORMAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT-MIX ASPHALT IS PLACED.
10. THE EXISTING TREES FROM STATION 1030+85 LT TO STATION 1033+54 LT AT S.N. 026-0072 ARE BEYOND PROPOSED RIGHT-OF-WAY AND CONSTRUCTION LIMITS. THESE TREES SHALL NOT BE DISTURBED DURING CONSTRUCTION ACTIVITIES, INCLUDING ALL OVERHANGING LIMBS. TEMPORARY FENCING SHALL BE PLACED ALONG CONSTRUCTION LIMITS IN THIS AREA.

11. BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.
12. EXCAVATION FOR RIPRAP SHALL BE INCLUDED IN THE COST FOR STONE DUMPED RIPRAP. THE CONTRACTOR SHALL CONDUCT GRADING SUCH THAT THE TOP 4" +/- IS SUITABLE MATERIAL FOR ESTABLISHING AND MAINTAINING THE GROWTH OF GRASS. THIS WORK SHALL BE INCLUDED IN THE COST FOR FURNISHED EXCAVATION.
13. THE CONTRACTOR WILL PROVIDE INTERNET ACCESSIBILITY TO THE BITUMINOUS PLANT QUALITY CONTROL LAB SO THAT BITUMINOUS PLANT REPORTS CAN BE E-MAILED TO THE DISTRICT HEADQUARTERS. THIS WORK SHALL BE INCLUDED IN THE COST OF ALL BITUMINOUS ITEMS.
14. FOR THE PAY ITEM BITUMINOUS MATERIALS (PRIME COAT), THE CONTRACTOR SHALL USE EITHER RC-70 OR AN EMULSIFIED POLYMER PRIME SS-1HP.
15. MATERIAL USED FOR AGGREGATE SURFACE COURSE, TYPE B SHALL BE CHRUSHED STONE OR CHRUSHED CONCRETE.
16. MATERIAL USED FOR AGGREGATE SHOULDERS, TYPE B SHALL BE RAP, CRUSHED STONE, OR CHRUSHED CONCRETE.
17. PAINT PAVEMENT MARKING-LINE 4" SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD, AS SHOWN ON THE TYPICAL SECTIONS AND AS DETERMINED BY THE ENGINEER. THE TOTAL QUANTITY CALCULATED CONSISTS OF 2,760 FEET OF WHITE AND 639 FEET OF YELLOW.
18. THE FOLLOWING APPLICATION RATES WERE USED FOR QUANTITY CALCULATIONS.

AGGREGATE ITEMS	2.05 TON / CU YD
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	112 lbs/sq. yd. Inch
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	112 lbs/sq. yd. Inch
HOT-MIX ASPHALT SHOULDER	112 lbs/sq. yd. Inch
INCIDENTAL BITUMINOUS SURFACE	112 lbs/sq. yd. Inch
BITUMINOUS MATERIAL (PRIME COAT) (ON BITUMINOUS)	0.08 GAL / SQ YD
BITUMINOUS MATERIAL (PRIME COAT) (ON AGGREGATE)	0.35 GAL / SQ YD
TEMPORARY EROSION CONTROL SEEDING	100 LB / ACRE
RIPRAP	1.50 TON / CU YD

19. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT.

MIXTURE USE(S):	SURFACE	BINDER (UPPER LIFTS)	BINDER (LOWER LIFTS)	HMA SHOULDER	WIDENING	INCIDENTAL SURFACING
PG	PG 64-22	PG 64-22	PG 64-22	PG 58-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N70	4.0% @ N70	4.0% @ N70	4.0% @ N30	4.0% @ N70	4.0% @ N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 19.0	IL 19.0	IL 19.0L	IL 19.0	IL 9.5
FRICTION AGGREGATE	MIX "C"	----	----	----	----	MIX "C"

20. TEMPORARY BRIDGE TRAFFIC SIGNALS SHALL ONLY BE USED FROM APRIL 1 TO OCTOBER 1.

FILE NAME =	USER NAME = IE Consultants	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
G:\S08026-5\CADD Sheets\0774110-shr-Gennote.dgn	DRAWN -	REVISED -	•			114B-1(1) & 114B-1(2)	FAYETTE	54	3		
PLOT SCALE = 10.0000 FT / IN.	CHECKED -	REVISED -	• F.A.P. RTE. 750, F.A.S. RTE. 719			CONTRACT NO. 74110					
PLOT DATE = 9/29/2009	DATE -	REVISED -	FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT					
						SCALE: NONE	SHEET NO.	OF	SHEETS	STA.	TO STA.

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

80/20 FED/ST

FAP 750

FAS 719

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80/20 FED/ST			
				FAP 750	FAS 719		
				ROADWAY SECTION 114B-1(1) I000	STRUCTURE SN. 026-2020 Y007	ROADWAY SECTION 114B-1(2) I000	STRUCTURE S. N. 026-2019 Y007
20101000	TEMPORARY FENCE	FOOT	300			300	
20200100	EARTH EXCAVATION	CU YD	572	431		141	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	121		52		69
20400800	FURNISHED EXCAVATION	CU YD	91	83		8	
* 20700220	POROUS GRANULAR EMBANKMENT	CU YD	599		222		377
* 25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.6	0.4		0.2	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	60	40		20	
28000305	TEMPORARY DITCH CHECKS	FOOT	50	30		20	
28000400	PERIMETER EROSION BARRIER	FOOT	290			290	
28000500	INLET AND PIPE PROTECTION	EACH	5	1		4	
28100109	STONE RIPRAP, CLASS A5	SQ YD	737		346		391
28200200	FILTER FABRIC	SQ YD	737		346		391
35101400	AGGREGATE BASE COURSE, TYPE B	TON	253	159		94	
35650300	BASE COURSE WIDENING 8"	SQ YD	263			263	
* 35650450	BASE COURSE WIDENING REMOVAL	SQ YD	263			263	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	67	24		43	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	20	9		11	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	579	391		188	
40701951	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 13 1/2"	SQ YD	609	320		289	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	59			59	
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	27			27	

\* SEE SPECIAL PROVISIONS



**ILLINOIS DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

80/20 FED/ST

FAP 750

FAS 719

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80/20 FED/ST		80/20 FED/ST	
				ROADWAY SECTION 114B-1(1) I000	STRUCTURE SN. 026-2020 Y007	ROADWAY SECTION 114B-1(2) I000	STRUCTURE S. N. 026-2019 Y007
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	720			720	
44000100	PAVEMENT REMOVAL	SQ YD	110	54		56	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	62			62	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	374			374	
44000600	SIDEWALK REMOVAL	SQ FT	469			469	
* 44002500	GUTTER OUTLET REMOVAL	EACH	2			2	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	169	147		22	
48203037	HOT-MIX ASPHALT SHOULDERS, 10"	SQ YD	792	792			
* 50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1		
* 50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1				1
50105220	PIPE CULVERT REMOVAL	FOOT	51	32		19	
50200100	STRUCTURE EXCAVATION	CU YD	665		245		420
50800105	REINFORCEMENT BARS	POUND	65,600		26,570		39,030
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1480		570		910
50800515	BAR SPLICERS	EACH	331		178		153
50900200	STEEL RAILING, TYPE 2399	FOOT	56		56		
* 50901115	STEEL RAILING (SPECIAL)	FOOT	120				120
* 51205200	TEMPORARY SHEET PILING	SQ FT	1355		690		665
51500100	NAME PLATES	EACH	2		1		1
54003000	CONCRETE BOX CULVERTS	CU YD	418.5		177.8		240.7

\* SEE SPECIAL PROVISIONS

FILE NAME = G:\S08826-5\CA00 Sheets\0774110-sh1-500.dgn	USER NAME = IE Consultants	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			•	114B-1(1) & 114B-1(2)	FAYETTE	54	5
		CHECKED -	REVISED -			•	F.A.P. RTE. 750, F.A.S. RTE. 719	FAYETTE	54	5
		DATE -	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
PLOT SCALE = 10.0000' / IN.				SCALE:		SHEET NO. OF SHEETS		STA. TO STA.		
PLOT DATE = 9/29/2009										

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

80/20 FED/ST

FAP 750

FAS 719

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80/20 FED/ST		80/20 FED/ST	
				ROADWAY SECTION 114B-1(1) I000	STRUCTURE SN. 026-2020 Y007	ROADWAY SECTION 114B-1(2) I000	STRUCTURE S. N. 026-2019 Y007
* 542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	48	33		15	
54215550	METAL END SECTIONS 15"	EACH	3	2		1	
550A0160	STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	8			8	
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	60			60	
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1			1	
60255500	MANHOLES TO BE ADJUSTED	EACH	3			3	
60260100	INLETS TO BE ADJUSTED	EACH	2			2	
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	6			6	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	374			374	
** 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	300	300			
** * 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4			
** * 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4			
** 63200310	GUARDRAIL REMOVAL	FOOT	314	314			
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	8	4		4	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	3		3	
67100100	MOBILIZATION	L SUM	1	0.5		0.5	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2	1		1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5		0.5	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.5		0.5	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.5		0.5	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.5		0.5	

\* SEE SPECIAL PROVISIONS

\*\* SPECIALTY ITEM

FILE NAME =	USER NAME = IE Consultants	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
GRS08226-5XCADD Sheets\0774110-sh1-500.dgn	DRAWN -	REVISED -	•			114B-1(1) & 114B-1(2)	FAYETTE	54	6	
PLOT SCALE = 10.0000" = 1"	CHECKED -	REVISED -	* F.A.P. RTE. 750, F.A.S. RTE. 719			CONTRACT NO. 74110				
PLOT DATE = 9/29/2009	DATE -	REVISED -	FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET NO. OF SHEETS STA. TO STA.					

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

80/20 FED/ST

FAP 750

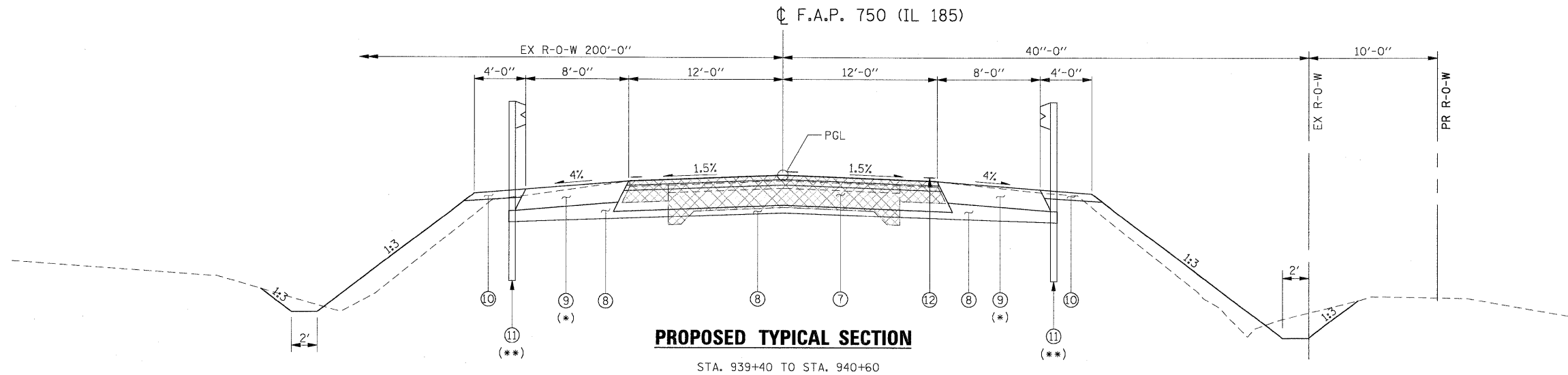
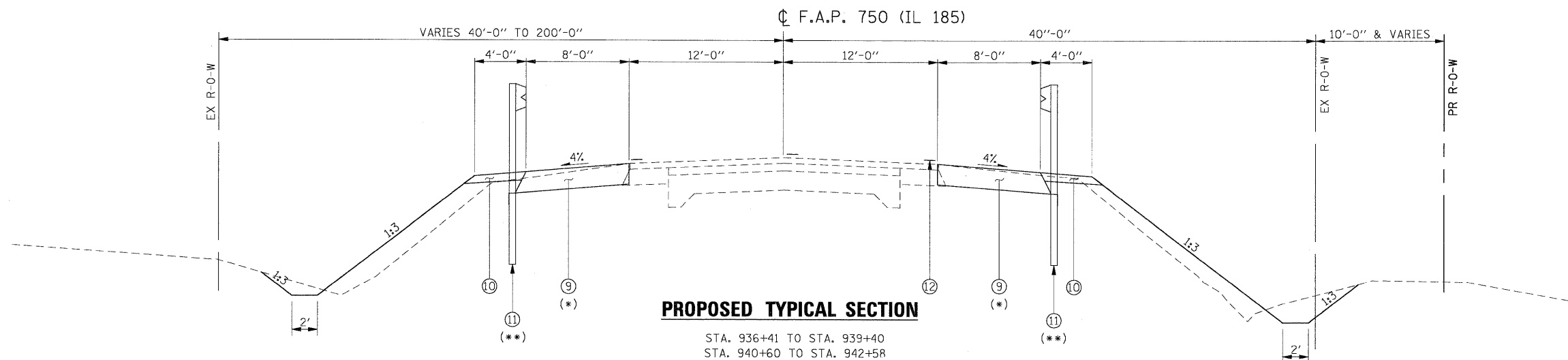
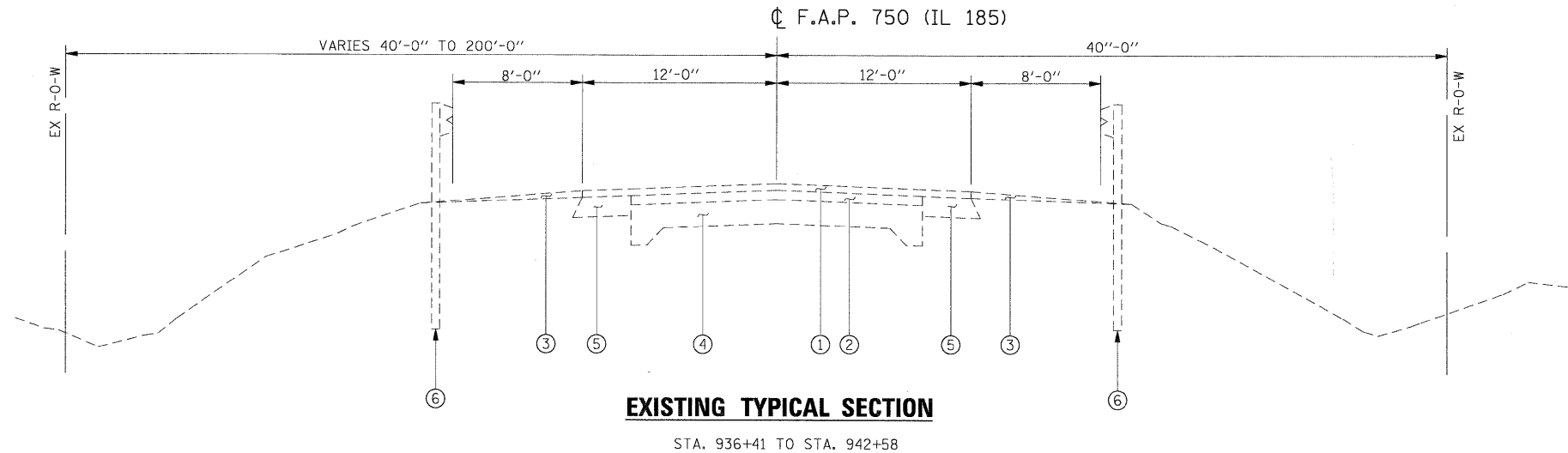
FAS 719

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80/20 FED/ST			
				FAP 750	FAS 719		
				ROADWAY SECTION 114B-1(1) I000	STRUCTURE SN. 026-2020 Y007	ROADWAY SECTION 114B-1(2) I000	STRUCTURE S. N. 026-2019 Y007
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	12	6		6	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	1		1	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	5,624	1,557		4,067	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	743			743	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	725	425		300	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	725	425		300	
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3,399	1,557		1,842	
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	5	2		3	
78200410	GUARDRAIL MARKERS, TYPE A	EACH	10	10			
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4			
78300100	PAVEMENT MARKING REMOVAL	SQ FT	528	179		349	
Z0025500	FURNISHING AND INSTALLING PROPERTY MARKERS	EACH	3	1		2	
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4	2		2	
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4	2		2	
Z0054505	ROCK FILL - REPLACEMENT	TON	247		106		141
<del>Z0076600</del>	<del>TRAINEES</del>	<del>HOUR</del>	<del>800</del>	<del>400</del>		<del>400</del>	

\* SEE SPECIAL PROVISIONS

\*\* SPECIALTY ITEM

FILE NAME = G:\S08026-5\CADD Sheets\0774118-sht-500.dgn	USER NAME = IE Consultants	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 10.0000' / IN.	CHECKED -	REVISED -	•			114B-1(1) & 114B-1(2)	FAYETTE	54	7	
PLOT DATE = 9/29/2009	DATE -	REVISED -	• F.A.P. RTE. 750, F.A.S. RTE. 719			CONTRACT NO. 74110				
			FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET NO. OF SHEETS STA. TO STA.				



(\*) HMA SHOULDER LOCATIONS:  
 LT STA. 938+26 TO STA. 938+55 (WIDTH VARIES)  
 RT STA. 936+58 TO STA. 937+45 (WIDTH VARIES)  
 LT STA. 942+20 TO STA. 942+28 (WIDTH VARIES)  
 RT STA. 941+45 TO STA. 942+30 (WIDTH VARIES)

(\*\*) PROPOSED GUARDRAIL LOCATIONS:  
 SEE GUARDRAIL SCHEDULE

- LEGEND**
- ① EX BITUMINOUS SURFACE, 2 1/2"
  - ② EX BITUMINOUS SURFACE, 3 1/2"
  - ③ EX AGGREGATE SHOULDER
  - ④ EX 9-6-9 PAVEMENT
  - ⑤ EX BITUMINOUS WIDENING, 7 1/2"
  - ⑥ EX GUARDRAIL
  - ⑦ HMA PAVEMENT (FULL-DEPTH), 13 1/2"
  - ⑧ AGGREGATE BASE COURSE, TYPE B
  - ⑨ HMA SHOULDERS, 10"
  - ⑩ AGGREGATE SHOULDERS, TYPE B
  - ⑪ GUARDRAIL
  - ⑫ PAINT PAVEMENT MARKING - LINE 4"

FILE NAME =	USER NAME = IE Consultants	DESIGNED -	REVISED -
G:\508026-5\CADD Sheets\0774110-sh-t-Topal.dgn		DRAWN -	REVISED -
PLOT SCALE = 5.0000 "/ IN.		CHECKED -	REVISED -
PLOT DATE = 9/29/2009		DATE -	REVISED -

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

**TYPICAL SECTIONS**

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.
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**PROPOSED S.N. 026-2020**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	114B-1(1) & 114B-1(2)	FAYETTE	54	8
* F.A.P. RTE. 750, F.A.S. RTE. 719			CONTRACT NO. 74110	
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

EARTH EXCAVATION SCHEDULE						
STA	TO	STA	20200100 EARTH EXCAVATION [CUT]	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%) (CU YD)	EMBANKMENT [FILL] (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
STAGE 1			194.9	146.2	206	-59.8
STAGE 2			235.6	176.7	199.6	-22.9
<b>TOTAL</b>			<b>430.5</b>	<b>322.9</b>	<b>405.6</b>	<b>-82.7</b>
			20400800 FURNISHED EXCAVATION (CU YD)			-83.0

PAVING SCHEDULE												
STA	TO	STA	LT / RT	PAVEMENT WIDTH (FOOT)	SHOULDER WIDTH (FOOT)	DISTANCE (FOOT)	35101400 AGGREGATE BASE COURSE, TYPE B (TON)	40600100 BITUMINOUS MATERIALS (PRIME COAT) (GALLON)	40701951 HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH) 13 1/2" (SQ YD)	44000100 PAVEMENT REMOVAL (SQ YD)	48101200 AGGREGATE SHOULDERS, TYPE B (TON)	48203037 HOT-MIX ASPHALT SHOULDERS, 10" (SQ YD)
939+40		940+60		24		120	159	188.8	320			
939+40		939+50		24		10				27		
940+50		940+60		24		10				27		
938+27		938+33	LT		3	6		0.4				2
938+33		938+55	LT		7	22		2.8				18
938+55		939+40	LT		8	85		12.1				76
939+40		940+60	LT		8	120		54.5				107
940+60		942+20	LT		8	160		22.8				142
942+20		942+28	LT		4	8		0.6				4
936+58		937+45	RT		4.5	87		7.0				44
937+45		939+40	RT		8	195		27.8				173
939+40		940+60	RT		8	120		54.5				107
940+60		941+45	RT		8	85		12.1				76
941+45		942+30	RT		4.5	85		6.8				43
938+21		939+97	LT		4	176					27	
940+30		942+28	LT		4	198					31	
936+41		939+70	RT		4	329					50	
940+04		942+58	RT		4	254					39	
<b>TOTALS</b>							<b>159</b>	<b>391</b>	<b>320</b>	<b>54</b>	<b>147</b>	<b>792</b>

NOTE: EARTHWORK FOR CONSTRUCTION OF HMA SHOULDERS IS INCLUDED IN THE EARTHWORK QUANTITIES.

EROSION CONTROL SCHEDULE			
LOCATION	STAGE	28000300 TEMPORARY DITCH CHECKS (EACH)	28000500 INLET AND PIPE PROTECTION (EACH)
939+76, 33' LT	1	1	
940+55, 33' LT	1	1	
942+55, 31' LT	1		1
939+43, 43' RT	2	1	
940+21, 37' RT	2	1	
<b>TOTALS</b>		<b>4</b>	<b>1</b>

DRAINAGE SCHEDULE				
STA	OFFSET	LT / RT	54200640 PIPE CULVERTS, TYPE 1, CS/A CULVERT PIPE 15" (FOOT)	54215550 METAL END SECTION, 15" (EACH)
942+40.7		LT	33	
942+55.3	31.29'	LT		1
942+23.3	36.42'	LT		1
<b>TOTAL</b>			<b>33</b>	<b>2</b>

TEMPORARY CONCRETE BARRIER SCHEDULE							
STA.	TO	STA.	LOCATION	70400100 TEMPORARY CONCRETE BARRIER (FOOT)	70400200 RELOCATE TEMPORARY CONCRETE BARRIER (FOOT)	Z0030250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (EACH)	Z0030350 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3 (EACH)
938+50		939+15	STAGE 1	66			
939+15		941+10	STAGE 1	195			
941+10		941+71	STAGE 1	62			
938+50			STAGE 1			1	
941+71			STAGE 1			1	
937+78		939+15	STAGE 2		138		
939+15		940+85	STAGE 2		170		
940+85		941+98	STAGE 2	99	114		
937+78			STAGE 2				1
941+98			STAGE 2				1
<b>TOTALS</b>				<b>422</b>	<b>422</b>	<b>2</b>	<b>2</b>
<b>USE</b>				<b>425</b>	<b>425</b>	<b>2</b>	<b>2</b>

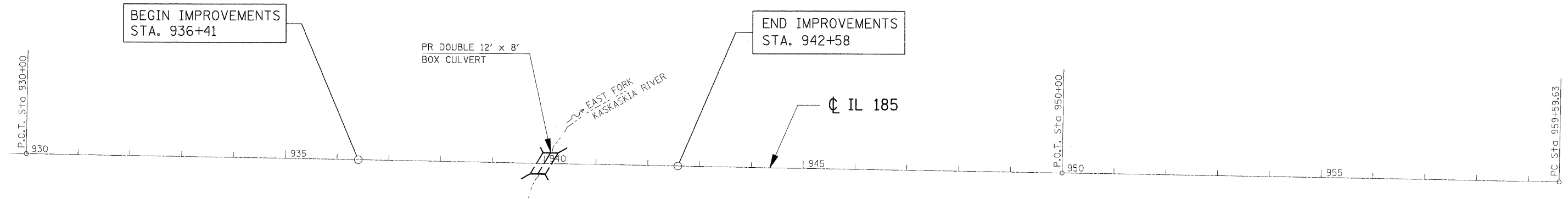
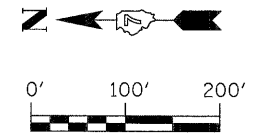
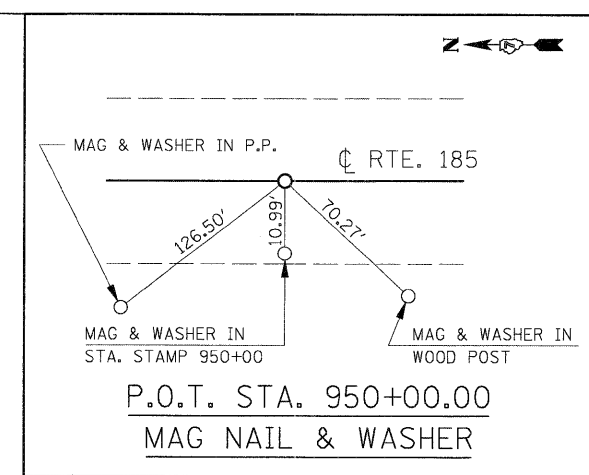
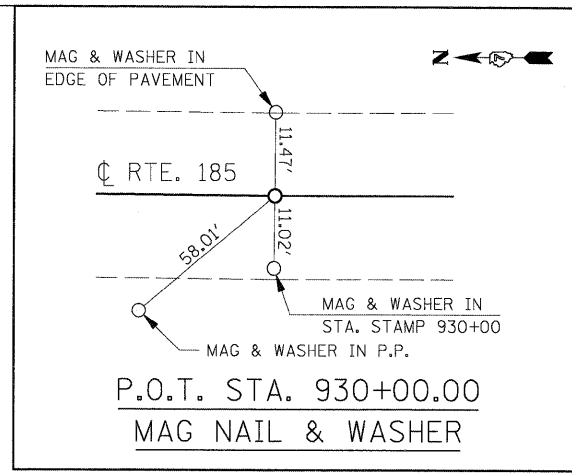
CULVERT REMOVAL SCHEDULE			
STA	OFFSET	LT / RT	50105220 PIPE CULVERT REMOVAL (FOOT)
IL 185			
942+39	31	LT	32
<b>TOTAL</b>			<b>32</b>

GUARDRAIL SCHEDULE									
STA	TO	STA	LT / RT	63000001	63100087	63200310	63100167	78200410	78201000
				STEEL PLATE BEAM GUARD RAIL, TY A, 6 FT POSTS (FOOT)	TRAFFIC BARRIER TERMINAL, TYPE 6A (EACH)	GUARDRAIL REMOVAL (FOOT)	TRAFFIC BARRIER TERMINAL, TY 1 (SP) TAN (EACH)	GUARDRAIL MARKERS TYPE A (EACH)	TERMINAL MARKER - DIRECT APPLIED (EACH)
<b>IL 185</b>									
938+65.5		939+15.5	LT				1		1
939+15.5		939+53.0	LT	37.5				1	
939+53.0		939+97.0	LT		1			1	
939+20.0		939+97.0	LT			77.0			
937+55.0		938+05.0	RT				1		1
938+05.0		939+30.0	RT	125.0				2	
939+30.0		939+74.0	RT		1			1	
938+93.0		939+73.0	RT			80.0			
940+27.0		940+71.0	LT		1			1	
940+71.0		941+71.0	LT	100.0				2	
941+71.0		942+21.0	LT				1		1
940+27.0		941+07.0	LT			80.0			
940+04.0		940+48.0	RT		1			1	
940+48.0		940+85.5	RT	37.5				1	
940+85.5		941+35.5	RT				1		1
940+03.0		940+80.0	RT			77.0			
<b>TOTALS</b>				<b>300.0</b>	<b>4</b>	<b>314</b>	<b>4</b>	<b>10</b>	<b>4</b>

STRIPING SCHEDULE							
STA.	TO	STA.	LOCATION	70300220	78001110	78100100	78300100
				TEMPORARY PAVEMENT MARKING - LINE 4" (FOOT)	PAINT PAVEMENT MARKING - LINE 4" (FOOT)	RAISED REFLECTIVE PAVEMENT MARKER (EACH)	PAVEMENT MARKING REMOVAL (SQ FT)
<b>STAGE I</b>							
936+22		938+65	CENTER				20
941+01		943+14	CENTER				18
<b>STAGE I SUB TOTAL</b>							<b>38</b>
<b>STAGE II</b>							
939+40		940+60	CENTER				
937+78		942+01	LT EDGE				141
<b>STAGE II SUB TOTAL</b>							<b>141</b>
<b>FINAL</b>							
936+22		943+14	RT EDGE	692	692		
936+22		943+14	CENTER	173	173		
936+22		943+14	LT EDGE	692	692		
939+40		940+60	CENTER			2	
<b>FINAL SUB TOTAL</b>				<b>1,557</b>	<b>1,557</b>	<b>2</b>	<b>179</b>
<b>TOTALS</b>				<b>1,557</b>	<b>1,557</b>	<b>2</b>	<b>179</b>

SEEDING SCHEDULE							
STATION TO STATION	LT / RT	AREA	25001000	28000250			
			SEEDING, CLASS 2 (SPECIAL) (SQ FT)	TEMPORARY EROSION CONTROL SEEDING (ACRE)	(POUND)		
938+24		939+82	LT	3,320	0.08	8	
936+41		939+67	RT	5,006	0.12	12	
940+53		942+31	LT	3,391	0.08	8	
940+05		942+49	RT	3,890	0.09	9	
<b>TOTALS</b>				<b>0.37</b>	<b>37</b>		
<b>USE</b>				<b>0.4</b>	<b>40</b>		

RIGHT OF WAY MARKER SCHEDULE					
STA	OFFSET	LT / RT	66600105	20025500	
			FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS (EACH)	FURNISHING AND INSTALLING PROPERTY MARKERS (EACH)	
<b>IL 185</b>					
935+00.0	40'	RT	1		
937+26.97	5.75'	RT			1
939+00.0	60'	RT	1		
940+00.0	60'	RT	1		
944+00.0	40'	RT	1		
<b>TOTAL</b>			<b>4</b>		<b>1</b>



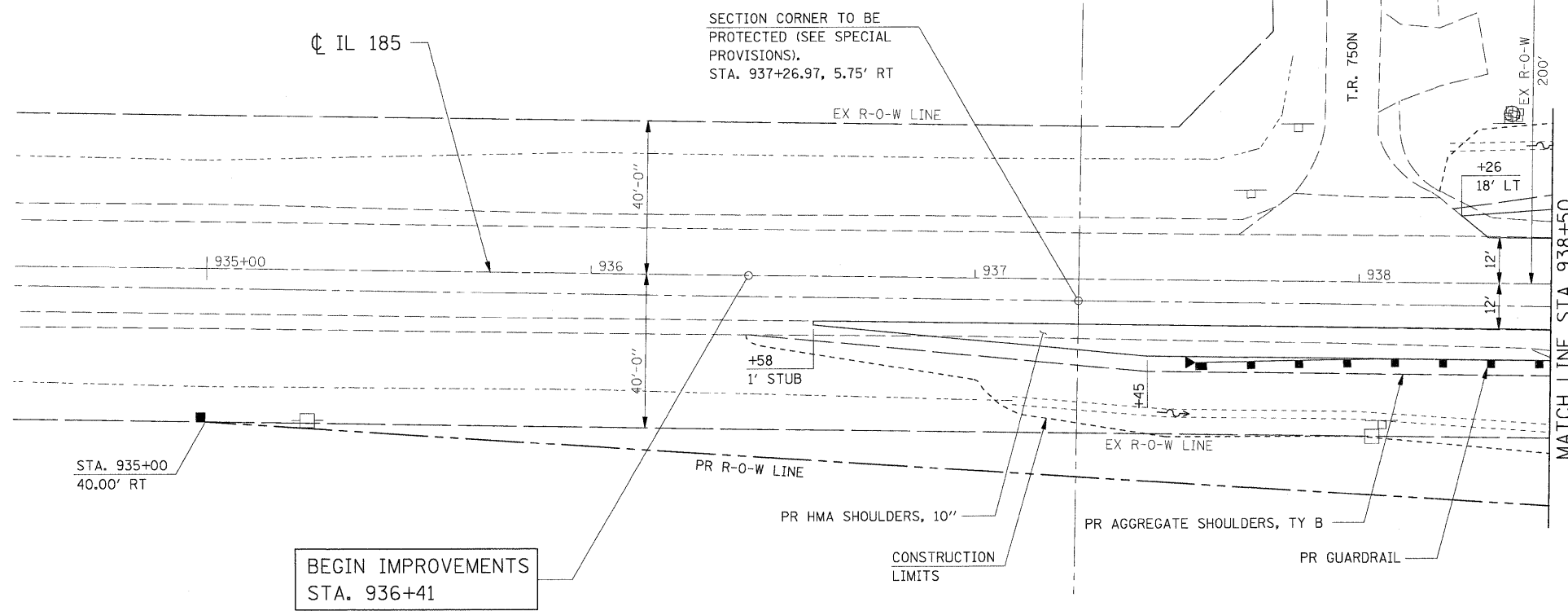
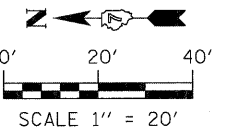
B.M. 108  
SET CHISELED "□" NW WINGWALL  
SN 026-0070 @  
STA. 939+75, 21.6' RT  
EL. 573.34'

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	PLOT SCALE = 100.0000' / IN.	DRAWN -	REVISED -			• 114B-1(1) & 114B-1(2)	FAYETTE	54	11	
	PLOT DATE = 9/29/2009	CHECKED -	REVISED -			• F.A.P. RTE. 750, F.A.S. RTE. 719		CONTRACT NO. 74110		
		DATE -	REVISED -			FED. ROAD DIST. NO.		[ILLINOIS] FED. AID PROJECT		
SCALE: 1" = 100'						SHEET NO. OF SHEETS		STA. TO STA.		

PROPOSED S.N. 026-2020

SW 1/4, NE 1/4, SEC 30, T5N, R4E

NW 1/4, SE 1/4, SEC 30, T5N, R4E

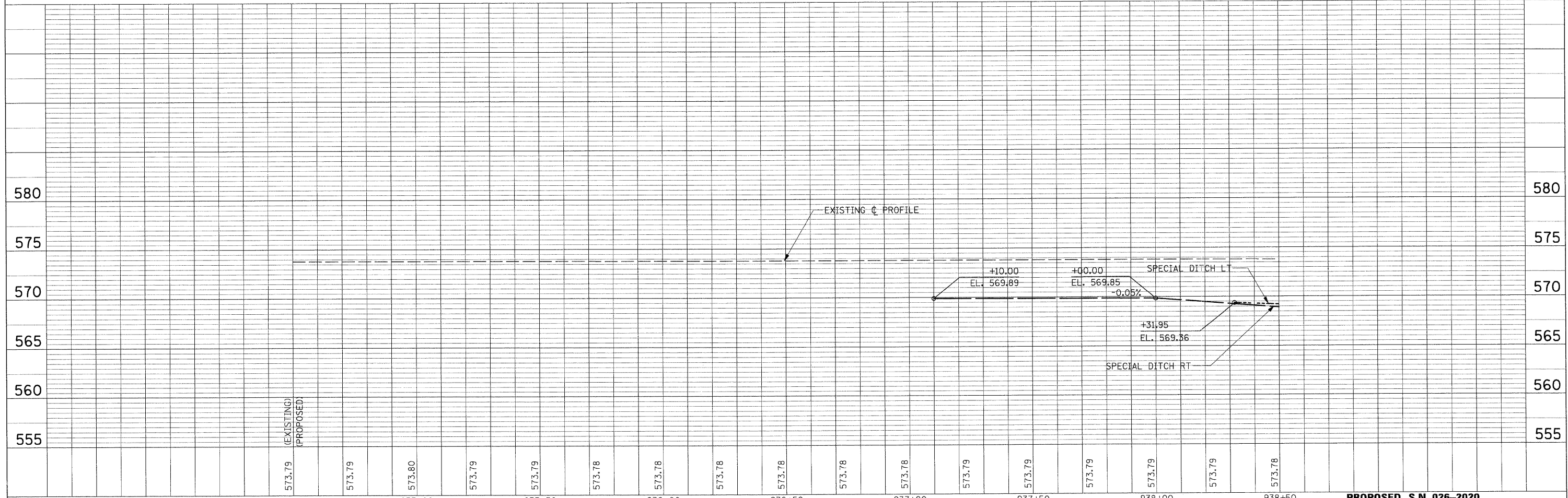


BEGIN IMPROVEMENTS  
STA. 936+41

SE 1/4, NW 1/4, SEC 30, T5N, R4E

NE 1/4, SW 1/4, SEC 30, T5N, R4E

**LEGEND**  
 EX PAVEMENT REMOVAL



(EXISTING)  
(PROPOSED)

PLAN	SURVEYED	DATE
	ALIGNED	
	CHECKED	
	RT. OF WAY	
	CHECKED	
	NO.	
	CADD FILE NAME	

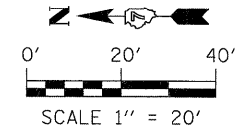
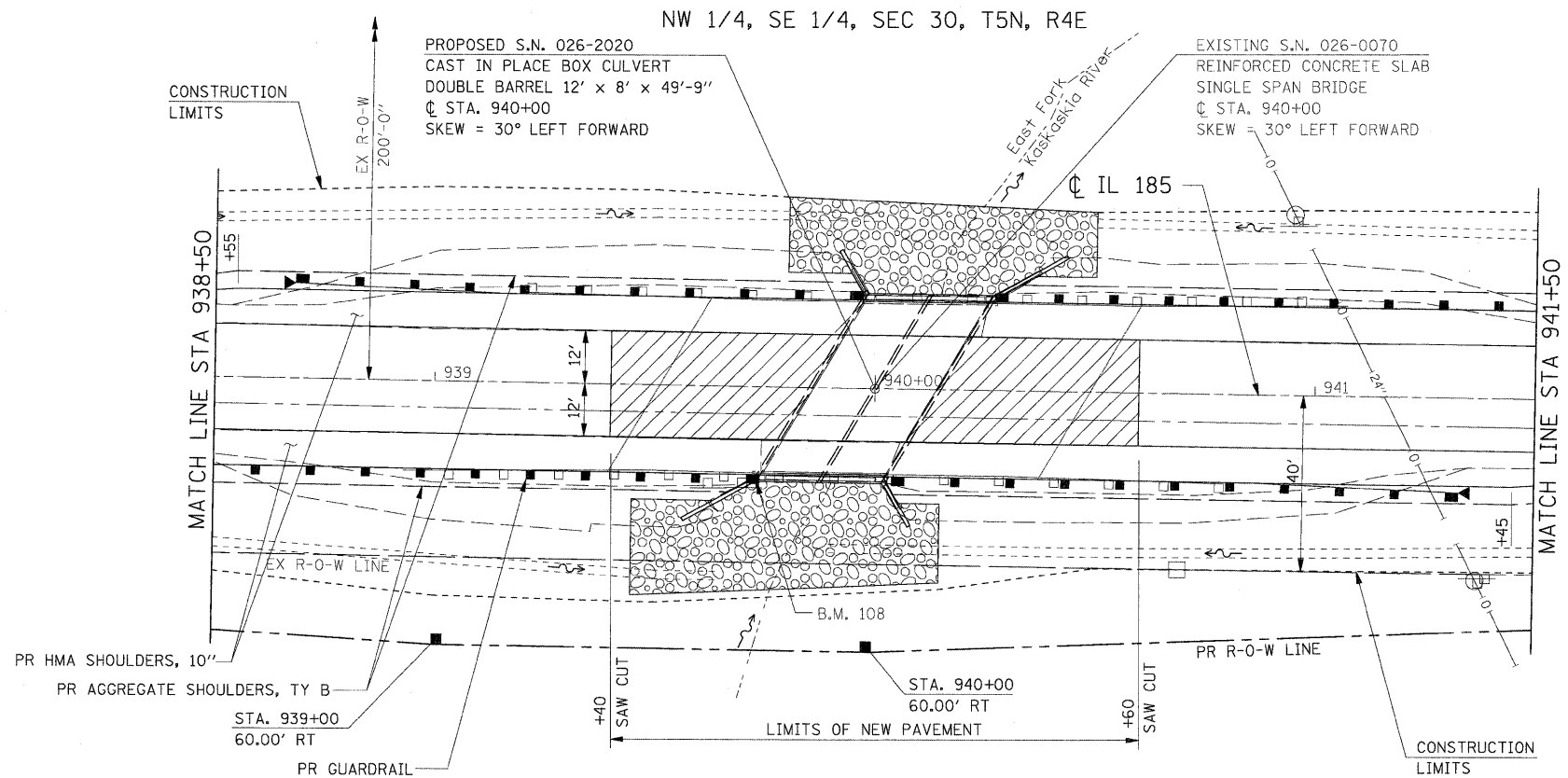
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	PLOTTED	
	CHECKED	
	BY	
	NOTED	
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	CHKD	
	NO.	

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PLOT DATE = 9/29/2009	DATE -	REVISED -	REVISED -		<b>PROPOSED S.N. 026-2020</b>								
					• F.A.P. RTE. 750, F.A.S. RTE. 719 CONTRACT NO. 74110								
												FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT	



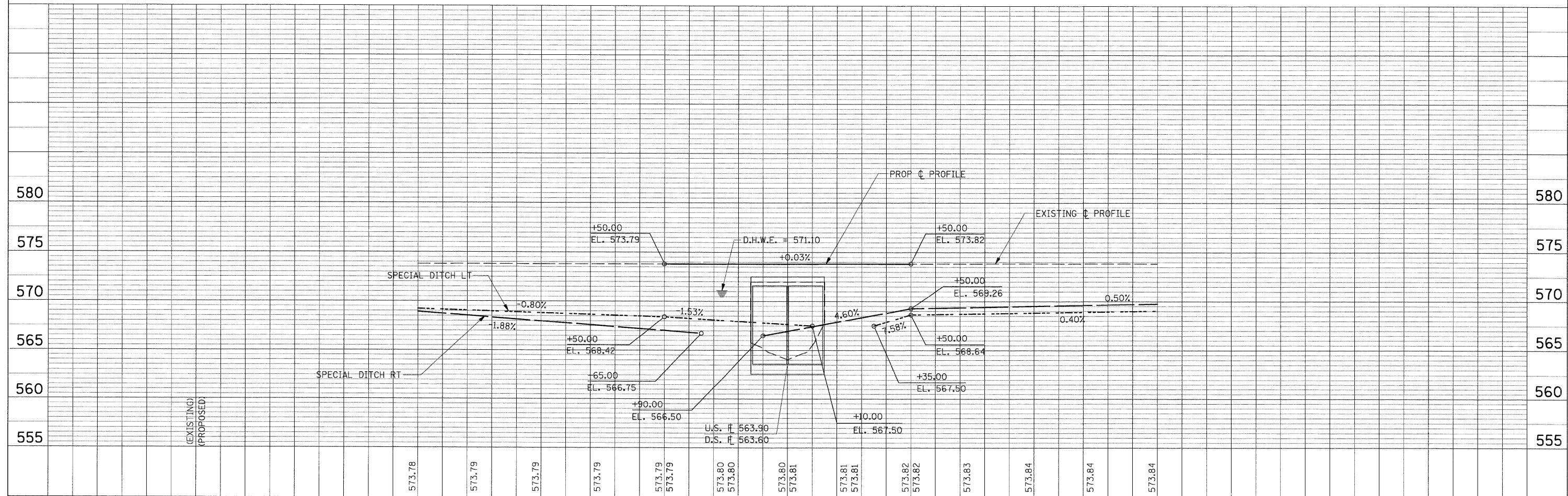
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 CADD FILE NAME

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 NOTE BOOK NO.  
 CHECKED BY  
 STRUCTURE NOTATION CHG



NE 1/4, SW 1/4, SEC 30, T5N, R4E

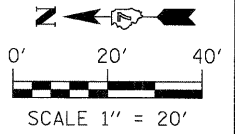
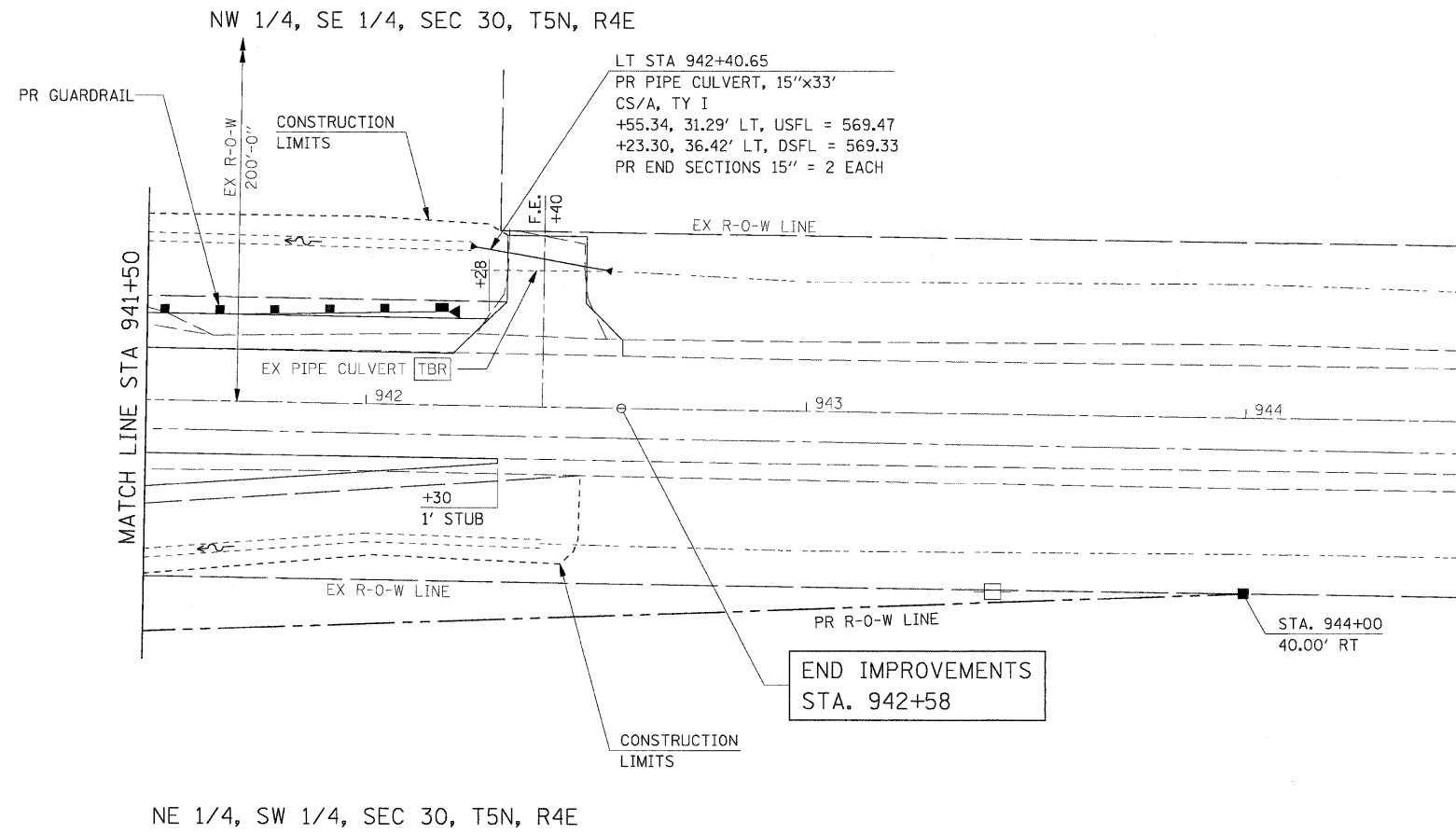
**LEGEND**  
 [Hatched Box] EX PAVEMENT REMOVAL



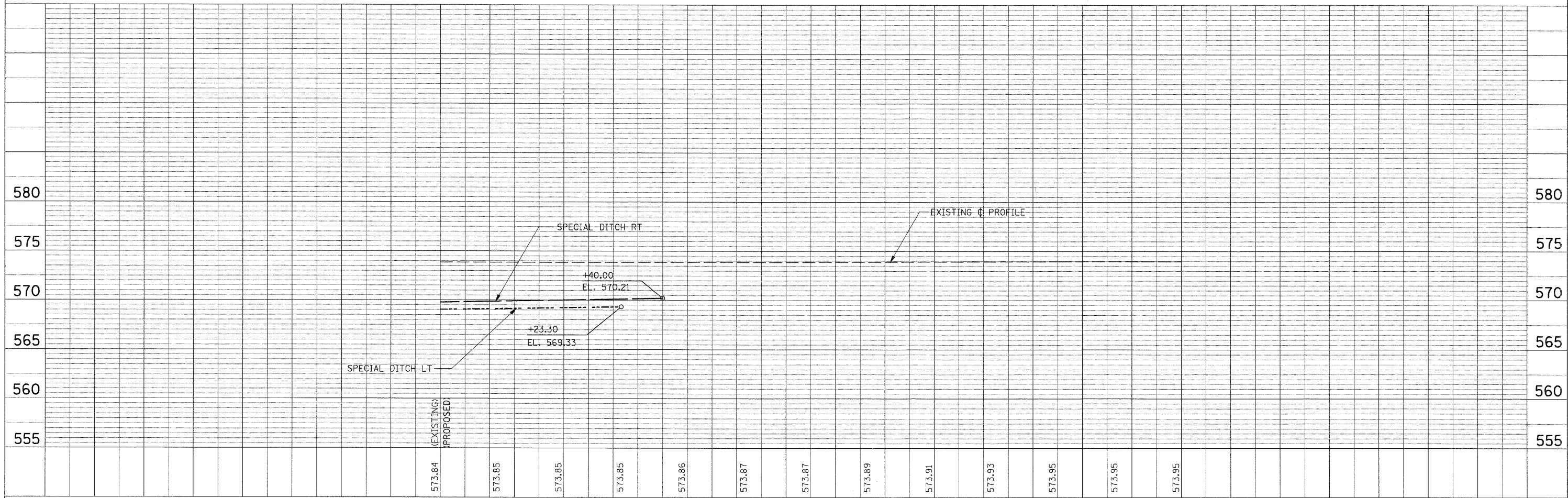
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		DRAWN -	REVISED -			114B-1(1) & 114B-1(2)	FAYETTE	54	13	
		CHECKED -	REVISED -			F.A.P. RTE. 750, F.A.S. RTE. 719	CONTRACT NO. 74110			
		DATE -	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

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

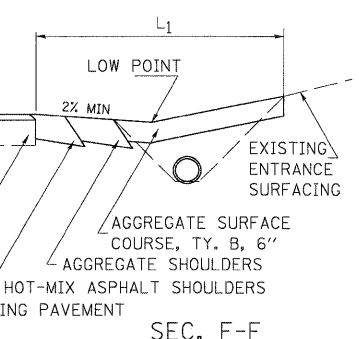
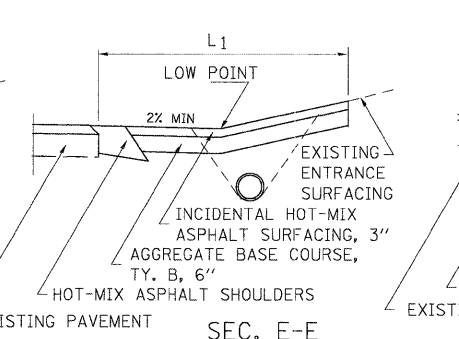
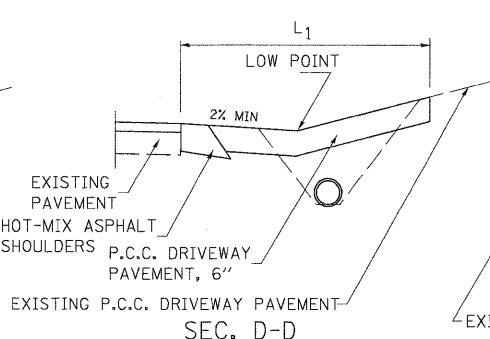
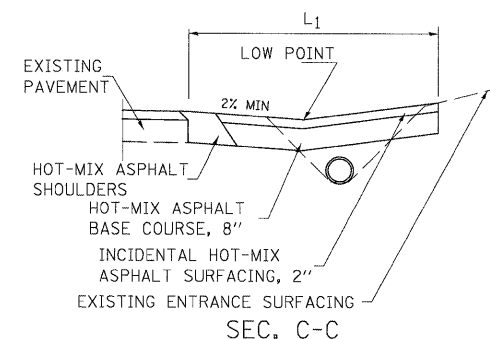
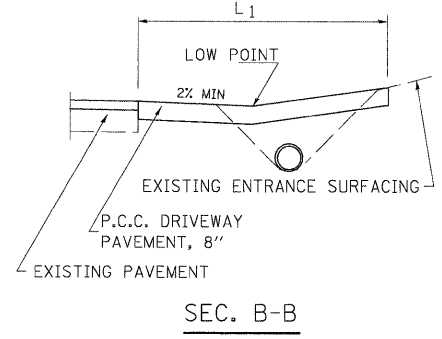
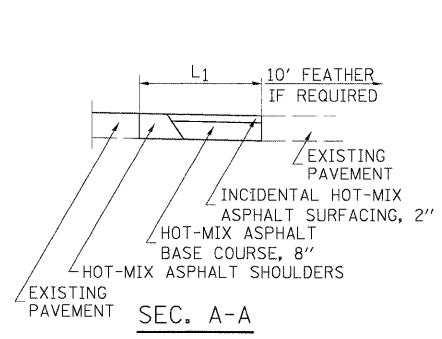
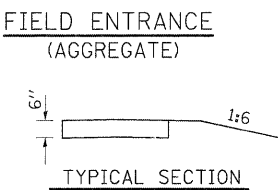
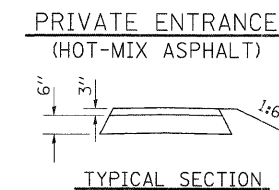
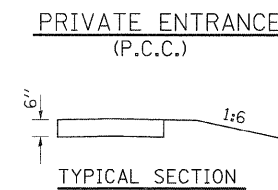
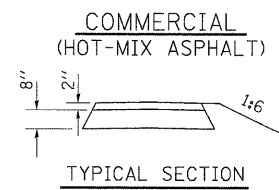
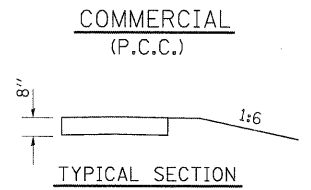
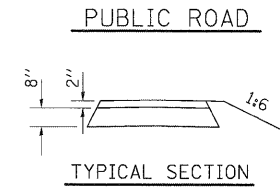
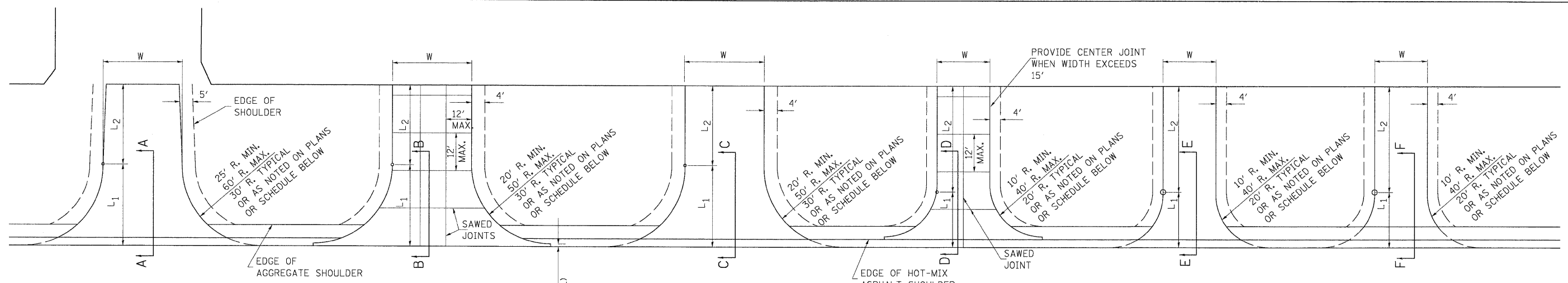
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	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHKD	
	NO. ....	



**LEGEND**  
 EX PAVEMENT REMOVAL



FILE NAME = G:\S28026-5\CADD Sheets\0774110-shr-PLNPR03.dgn	USER NAME = IE Consultants	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN &amp; PROFILE</b>	SCALE:		SHEET NO.	OF	SHEETS	STA.	TO STA.	<b>PROPOSED S.N. 026-2020</b>	
		DRAWN -	REVISED -			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
		CHECKED -	REVISED -			• 114B-1(1) & 114B-1(2)	FAYETTE	54	14					
		DATE -	REVISED -			• F.A.P. RTE. 750, F.A.S. RTE. 719	CONTRACT NO. 74110							



ENTRANCE SCHEDULE

TYPE	SIDE / STATION	WIDTH	LENGTH		RADI	40200800 AGGREGATE SURFACE COURSE, TYPE B		40201000 AGGREGATE FOR TEMPORARY ACCESS	
			L <sub>1</sub>	L <sub>2</sub>		TON	TON	TON	TON
FE	LT STA. 942+40	18	12	15		24	9		
	TOTALS					24	9		

NOTES

L<sub>1</sub> = DISTANCE FROM EDGE OF PAVEMENT TO RADIUS POINT OR MAXIMUM DISTANCE OF 30'.  
 L<sub>2</sub> = DISTANCE FROM RADIUS POINT OR MAXIMUM DISTANCE OF 30' FROM EDGE OF PAVEMENT TO R.O.W. LINE  
 MATERIAL USED TO CONSTRUCT L<sub>2</sub> LENGTH SHALL BE THE SAME TYPE OF MATERIAL AS THE EXISTING ENTRANCE

THE THICKNESS OF THE HOT-MIX ASPHALT SHOULDERS THROUGH COMMERCIAL ENTRANCES (HOT-MIX ASPHALT) AND PUBLIC ROADS SHALL BE 10". THE COST OF THE EXTRA THICKNESS SHALL BE INCLUDED WITH THE HOT-MIX ASPHALT SHOULDERS PAY ITEM.

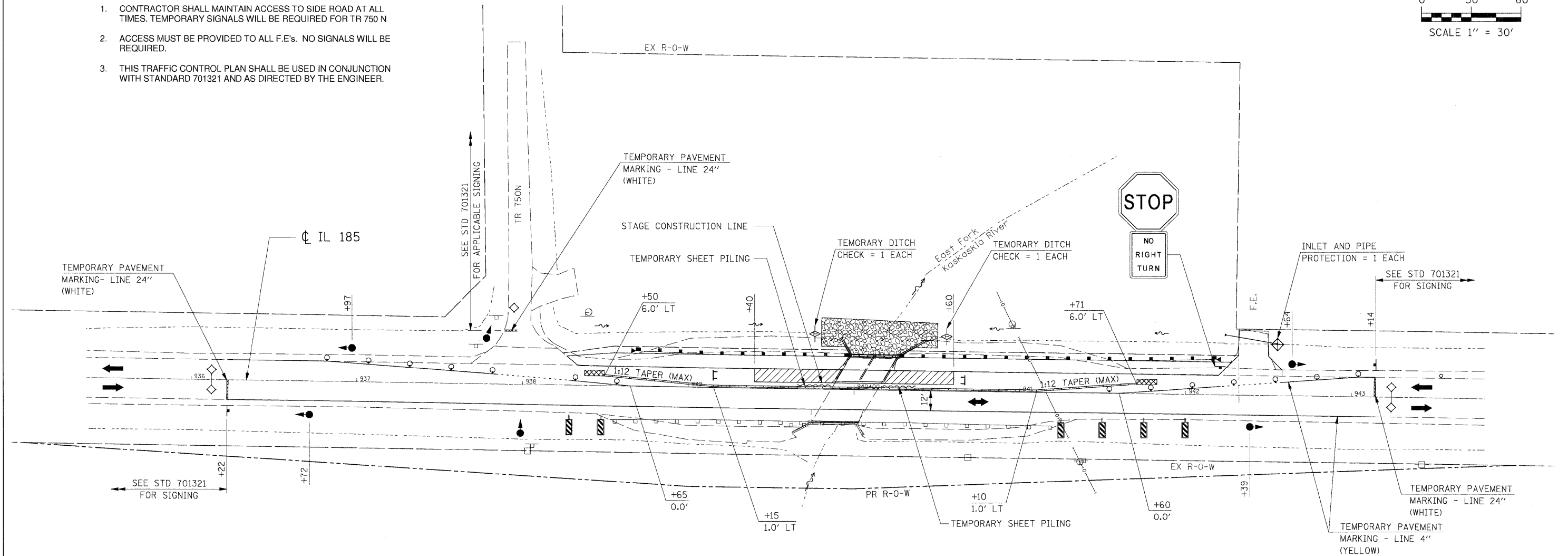
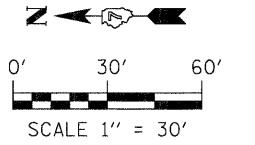
THE COST OF THE BITUMINOUS MATERIALS AND AGGREGATE (PRIME COAT) FOR ENTRANCES AND PUBLIC ROAD APPROACHES SHALL BE INCLUDED IN THE PAY ITEM INCIDENTAL HOT-MIX ASPHALT SURFACING.

HOT-MIX ASPHALT SHOULDERS SHALL NOT BE CONSTRUCTED THROUGH PCC ENTRANCE OR PUBLIC ROAD APPROACH.

FE=FIELD ENTRANCE PRA - PUBLIC ROAD APPROACH  
 PE=PRIVATE ENTRANCE MBT - MAILBOX TURNOUT  
 CE=COMMERCIAL ENTRANCE

**GENERAL STAGING NOTES:**

1. CONTRACTOR SHALL MAINTAIN ACCESS TO SIDE ROAD AT ALL TIMES. TEMPORARY SIGNALS WILL BE REQUIRED FOR TR 750 N
2. ACCESS MUST BE PROVIDED TO ALL F.E.'s. NO SIGNALS WILL BE REQUIRED.
3. THIS TRAFFIC CONTROL PLAN SHALL BE USED IN CONJUNCTION WITH STANDARD 701321 AND AS DIRECTED BY THE ENGINEER.



**SEQUENCE OF CONSTRUCTION:**

**STAGE 1 TRAFFIC:**

SET UP TEMPORARY TRAFFIC CONTROL UTILIZING THESE PLANS IN CONJUNCTION WITH STANDARD 701321.

INSTALL TEMPORARY TRAFFIC SIGNALS AND LOOP DETECTORS AT LOCATIONS SHOWN ON THESE PLANS AND STANDARD 701321.

PLACE TEMPORARY CONCRETE BARRIER AND PAVEMENT MARKING IN ACCORDANCE WITH THESE PLANS AND STANDARD 701321.

REMOVE ANY CONFLICTING PAVEMENT MARKINGS.

CHANNEL ALL TRAFFIC TO WEST SIDE OF STRUCTURE.

**STAGE 1 CONSTRUCTION:**

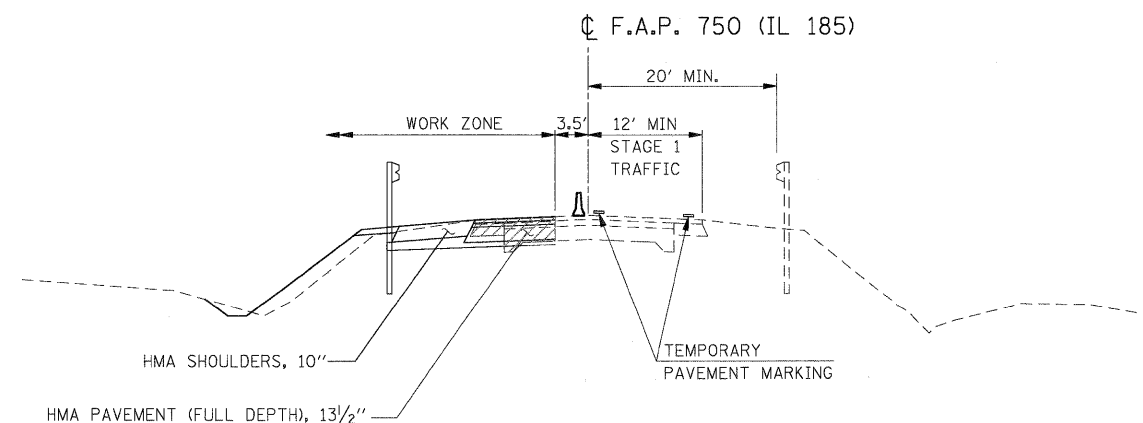
INSTALL TEMPORARY SHEET PILING PRIOR TO ANY EXCAVATION.

REMOVE STAGE 1 PORTION OF EXISTING BOX CULVERT & PAVEMENT.

CONSTRUCT STAGE 1 PORTION OF BOX CULVERT AND RIP RAP.

CONSTRUCT STAGE 1 PORTION OF DRAINAGE ITEMS.

CONSTRUCT PROPOSED GUARDRAIL ON EAST SIDE OF ROAD.



**STAGE 1 TYPICAL SECTION**

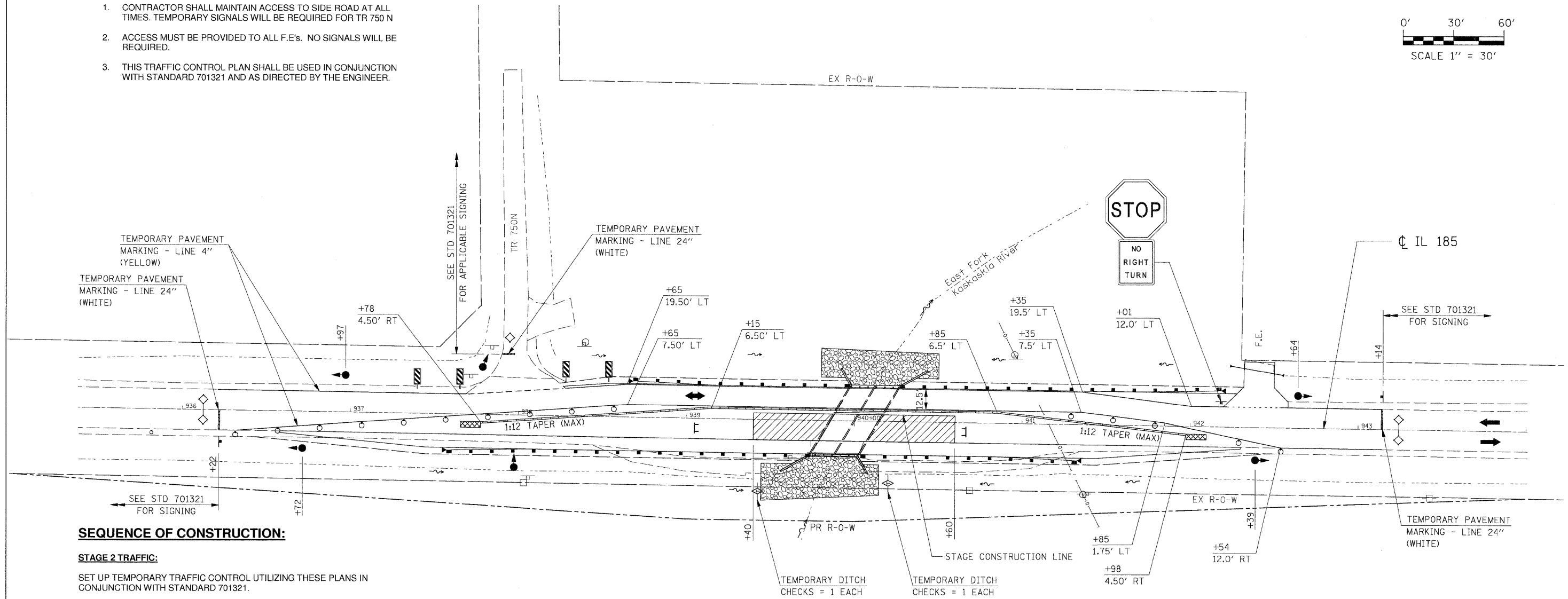
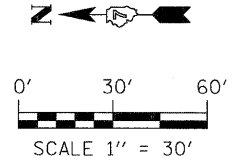
**LEGEND**

- +— SIGN
- DRUM WITH STEADY BURNING LIGHT (BI-DIRECTIONAL)
- TRAFFIC SIGNAL
- ▬ TEMPORARY CONCRETE BARRIER
- ▨ IMPACT ATTENUATOR, TEMPORARY
- ▩ PAVEMENT REMOVAL
- ➔ DIRECTION OF TRAFFIC
- TT TYPE III BARRICADE
- ◇ LOOP DETECTORS
- ▧ DOUBLE VERTICAL PANEL

FILE NAME = G:\S26026-5\CADD Sheets\0774110-sh1-STAGE1.dgn	USER NAME = IE Consultants	DESIGNED -	REVISD -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC STAGE 1</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISD -			• 114B-1(1) & 114B-1(2)	FAYETTE	54	16	
		CHECKED -	REVISD -			• F.A.P. RTE. 750, F.A.S. RTE. 719			CONTRACT NO. 74110	
		DATE -	REVISD -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
SCALE: SHEET NO. OF SHEETS STA. TO STA.						PROPOSED S.N. 026-2020				

**GENERAL STAGING NOTES:**

1. CONTRACTOR SHALL MAINTAIN ACCESS TO SIDE ROAD AT ALL TIMES. TEMPORARY SIGNALS WILL BE REQUIRED FOR TR 750 N
2. ACCESS MUST BE PROVIDED TO ALL F.E.'s. NO SIGNALS WILL BE REQUIRED.
3. THIS TRAFFIC CONTROL PLAN SHALL BE USED IN CONJUNCTION WITH STANDARD 701321 AND AS DIRECTED BY THE ENGINEER.



**SEQUENCE OF CONSTRUCTION:**

**STAGE 2 TRAFFIC:**

SET UP TEMPORARY TRAFFIC CONTROL UTILIZING THESE PLANS IN CONJUNCTION WITH STANDARD 701321.

RELOCATE TEMPORARY CONCRETE BARRIER AND PLACE PAVEMENT MARKING IN ACCORDANCE WITH THESE PLANS AND STANDARD 701321.

REMOVE ANY CONFLICTING PAVEMENT MARKINGS.

CHANNEL ALL TRAFFIC TO EAST SIDE OF BOX CULVERT AND PROPOSED SHOULDER.

**STAGE 2 CONSTRUCTION:**

REMOVE STAGE 2 PORTION OF EXISTING BOX CULVERT AND PAVEMENT.

CONSTRUCT REMAINDER OF BOX CULVERT AND RIP RAP.

CONSTRUCT PROPOSED GUARDRAIL ON WEST SIDE OF ROAD.

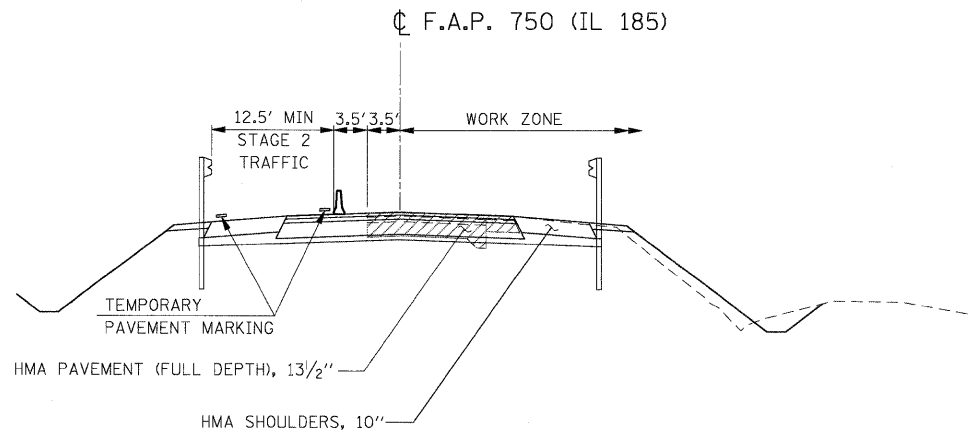
**POST-STAGE TRAFFIC:**

REMOVE TEMPORARY TRAFFIC SIGNALS AND TEMPORARY CONCRETE BARRIER.

SHIFT TRAFFIC AS NEEDED TO BUILD UP PAVEMENT TO FINAL PROFILE UTILIZING STANDARD 701306.

**POST-STAGE CONSTRUCTION:**

FOLLOWING COMPLETION OF STAGE 2, CONSTRUCT FINAL ROADWAY AND SHOULDER SURFACE, AGGREGATE SHOULDERS, ENTRANCES, SIDE ROADS, FINAL STRIPING AND SEEDING.

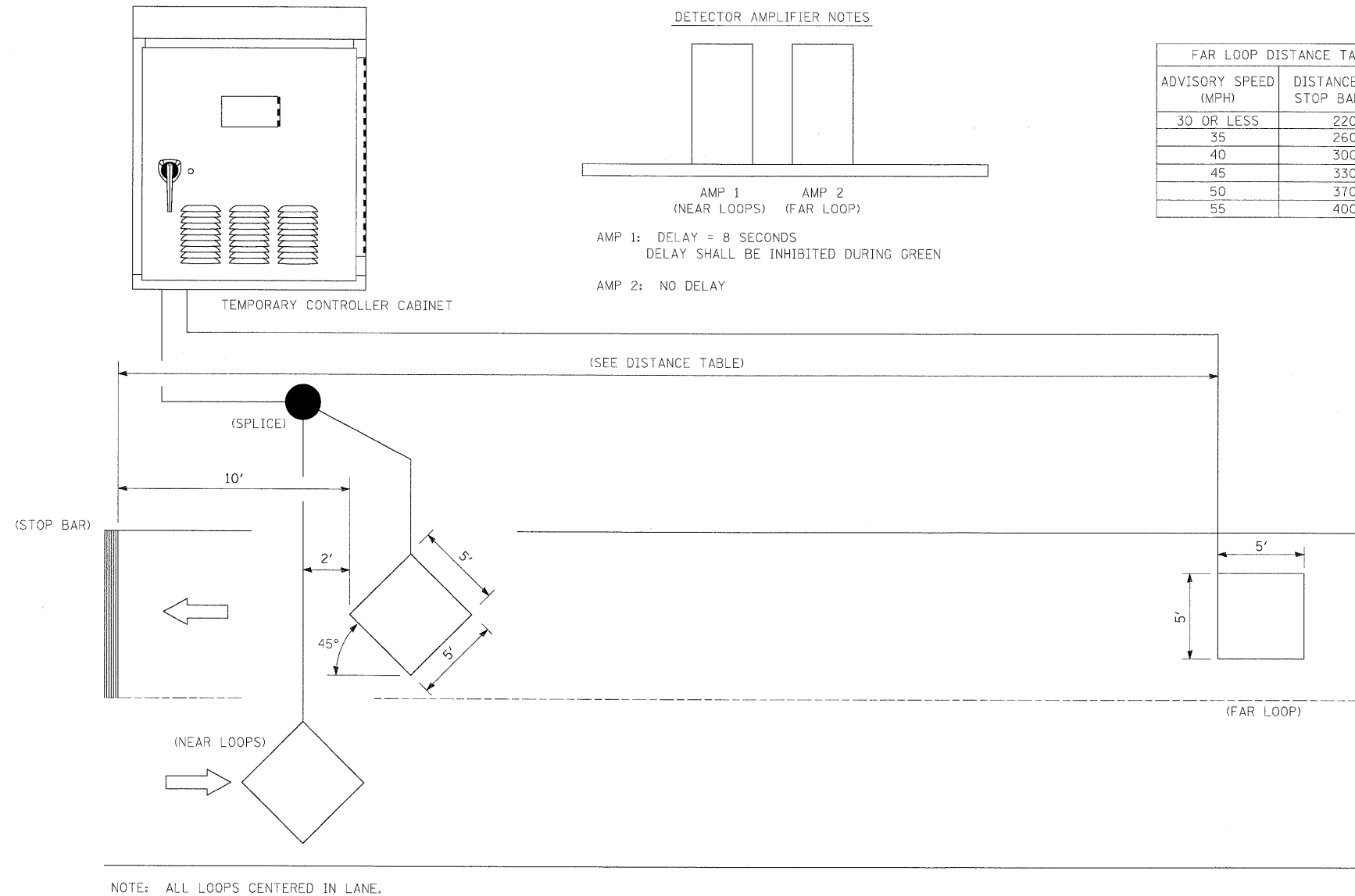


**STAGE 2 TYPICAL SECTION**

**LEGEND**

- ↑ SIGN
- DRUM WITH STEADY BURNING LIGHT (BI-DIRECTIONAL)
- TRAFFIC SIGNAL
- ▬ TEMPORARY CONCRETE BARRIER
- ▨ IMPACT ATTENUATOR, TEMPORARY
- ▩ PAVEMENT REMOVAL
- ➔ DIRECTION OF TRAFFIC
- ⊥ TYPE III BARRICADE
- ◇ LOOP DETECTORS
- ▤ DOUBLE VERTICAL PANEL

FILE NAME = G:\S08026-5\CADD Sheets\0774110-sh1-STAGE1\NG02-2.dgn	USER NAME = IE Consultants	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC STAGE 2</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 30.0000' / IN.	CHECKED -	REVISED -			• F.A.P. RTE. 750, F.A.S. RTE. 719	114B-1(1) & 114B-1(2)	FAYETTE	54	17	
	PLOT DATE = 9/25/2009	DATE -	REVISED -			FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		
						CONTRACT NO. 74110					



INDUCTION LOOP DETECTOR

FILE NAME =	USER NAME = IE Consultants	DESIGNED -	REVISED -
G:\S08026-S\CADD Sheets\0774110-shr-Detail\01.dgn		DRAWN -	REVISED -
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/29/2009	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY BRIDGE TRAFFIC SIGNAL  
LOOP PLACEMENT DETAIL SHEET**

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.
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**PROPOSED S.N. 026-2020**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	114B-1(1) & 114B-1(2)	FAYETTE	54	18
• F.A.P. RTE. 750, F.A.S. RTE. 719		CONTRACT NO. 74110		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



B.M. - Chiseled "□" on N.W. wingwall of bridge north of T.R. 700 N and 2450 E at sta. 939+75, 21.6' Rt. Elev. 573.34

Existing Structure S.N. 026-0070 constructed in 1932 is a single span 21.5" reinforced concrete slab structure with a 4" wearing surface. The structure is 30'-0" Bk to Bk of abutments and provided 42'-2" roadway width. The structure was constructed with a 30° skew. The abutments are closed abutments on spread footings. Traffic shall be maintained using stage construction.

No Salvage.

Precast Culvert Option not allowed.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.

WATERWAY INFORMATION

Drainage Area = 2.27 SQ MI Low Grade Elev. 573.78 @ Sta. 936+70									
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
Design	10	488	112	126	570.4	0.1	0.1	570.5	570.5
Base	50	770	129	143	571.1	0.9	0.4	572.0	571.5
Overlapping	100	895	133	150	571.4	0.9	0.5	572.3	571.9
Max. Calc.	500	1195	133	162	571.9	1.4	0.9	573.3	572.8

TOTAL BILL OF MATERIALS

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	245
Porous Granular Embankment	Cu. Yd.	222
Removal of Existing Structures No. 1	Each	1
Reinforcement Bars	Pound	26,570
Reinforcement Bars, Epoxy Coated	Pound	570
Bar Splicers	Each	178
Concrete Box Culverts	Cu. Yd.	177.8
Temporary Sheet Piling	Sq. Ft.	690
Steel Railing, Type 2399	Foot	56
Stone Riprap, Class A5	Sq. Yd.	346
Filter Fabric	Sq. Yd.	346
Removal & Disposal of Unsuitable Material	Cu. Yd.	52
Rockfill - Replacement	Ton	106
Name Plates	Each	1

INDEX OF SHEETS

1. GENERAL PLAN & ELEVATION
2. STAGE CONSTRUCTION DETAILS & TEMPORARY SHEET PILING
3. STAGE CONSTRUCTION DETAILS
4. STAGE 1 CULVERT DETAILS
5. STAGE 2 CULVERT DETAILS
6. STEEL RAILING, TYPE 2399
7. BAR SPLICER ASSEMBLY DETAILS
8. TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
9. SOIL BORING LOGS

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

LOADING HS-20-44

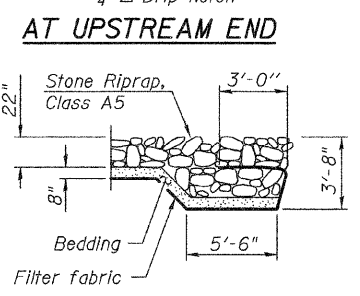
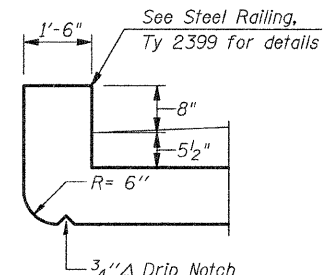
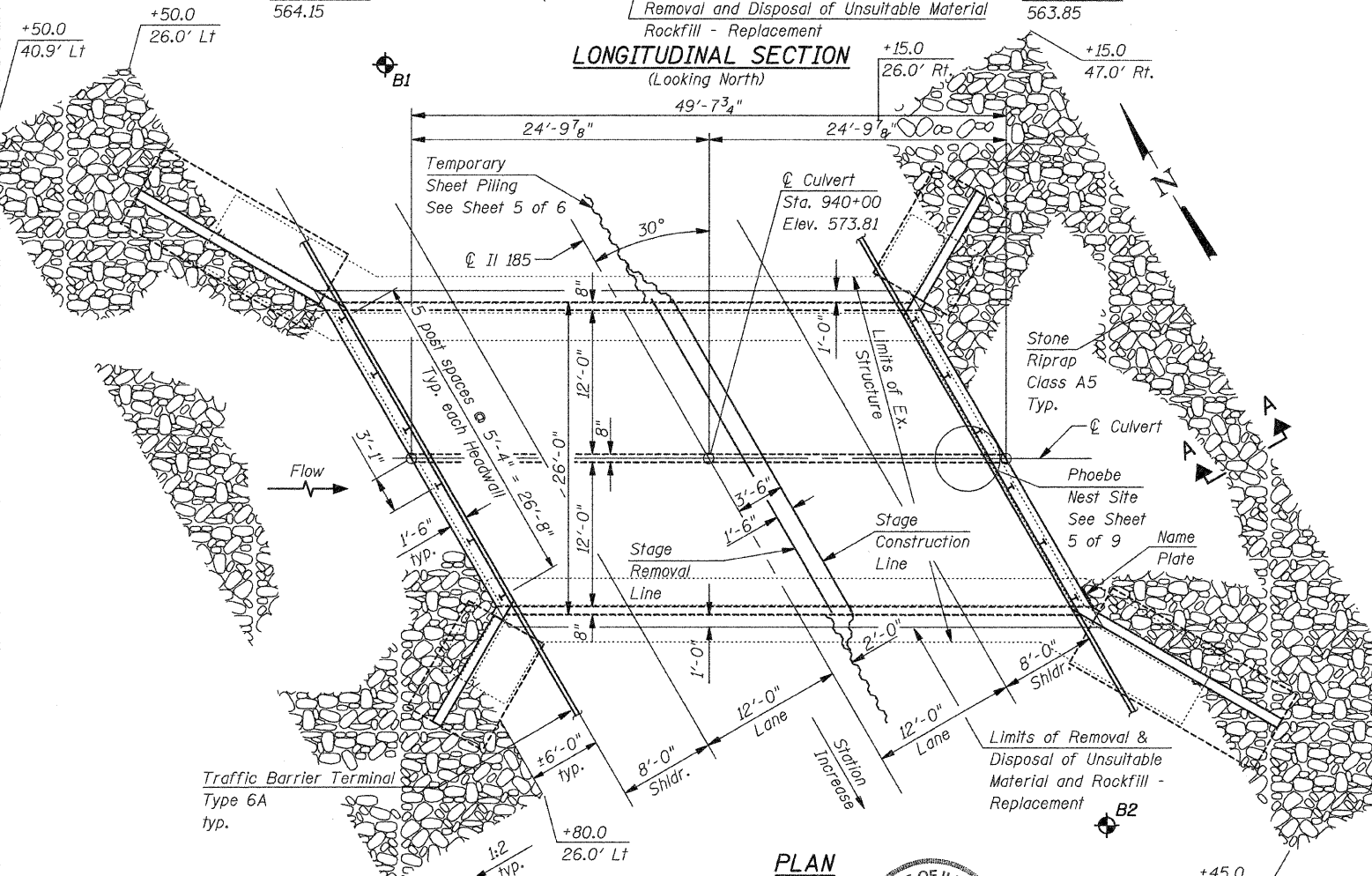
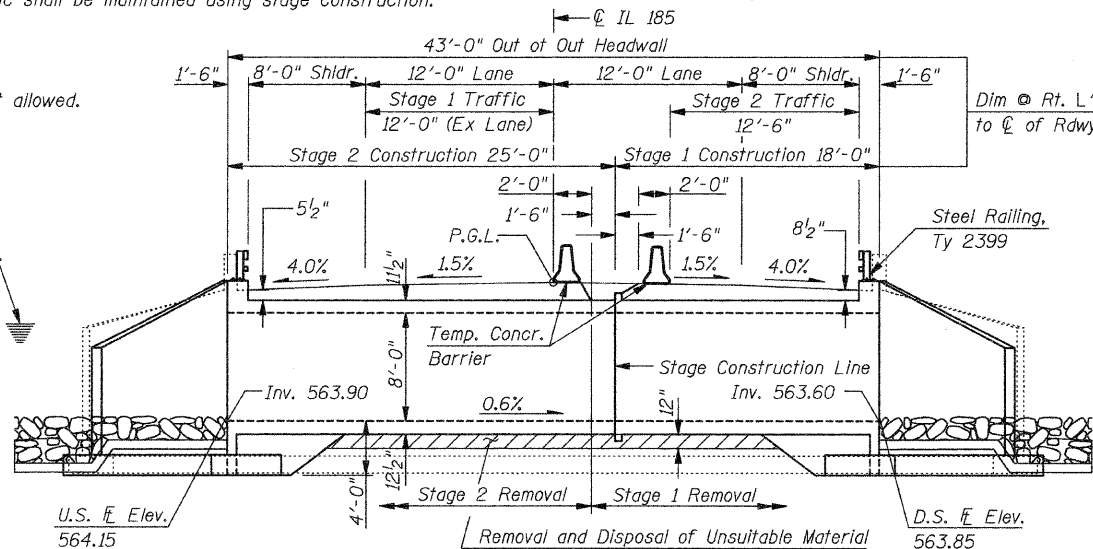
Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS

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

GENERAL PLAN  
IL ROUTE 185 OVER  
EAST FORK KASKASKIA RIVER  
F.A.P. RTE. 750 - SECTION 114B-1(1)  
FAYETTE COUNTY  
STA. 940+00  
S.N. 026-2020



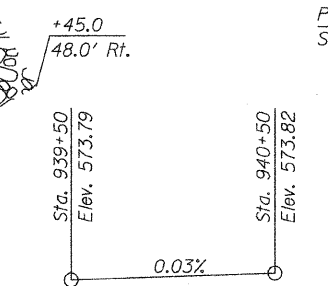
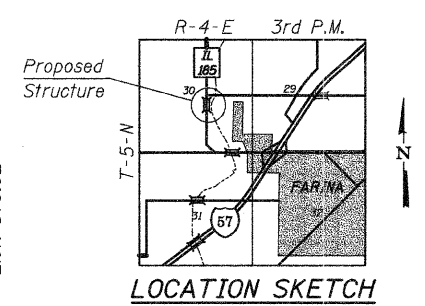
SECTION A-A

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	559.90	559.60

STATION 940+00.00  
BUILT 2010 BY  
STATE OF ILLINOIS  
FAP ROUTE 750 - SECTION 114B-1(1)  
LOADING HS20  
STRUCTURE NO. 026-2020

NAME PLATE  
See Std. 515001



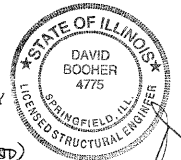
PROFILE GRADE LINE  
IL RTE 185

DESIGNED DRB
CHECKED -
DRAWN THW
CHECKED SCD

**ie** CONSULTANTS, INC.  
6429 SOUTH SIXTH STREET  
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FAX (217) 629-4643  
IESPRINGFIELD@IE-CONSULTANTS.COM  
WWW.IE-CONSULTANTS.COM

APPROVED  
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson (TSP)  
ENGINEER OF BRIDGES AND STRUCTURES

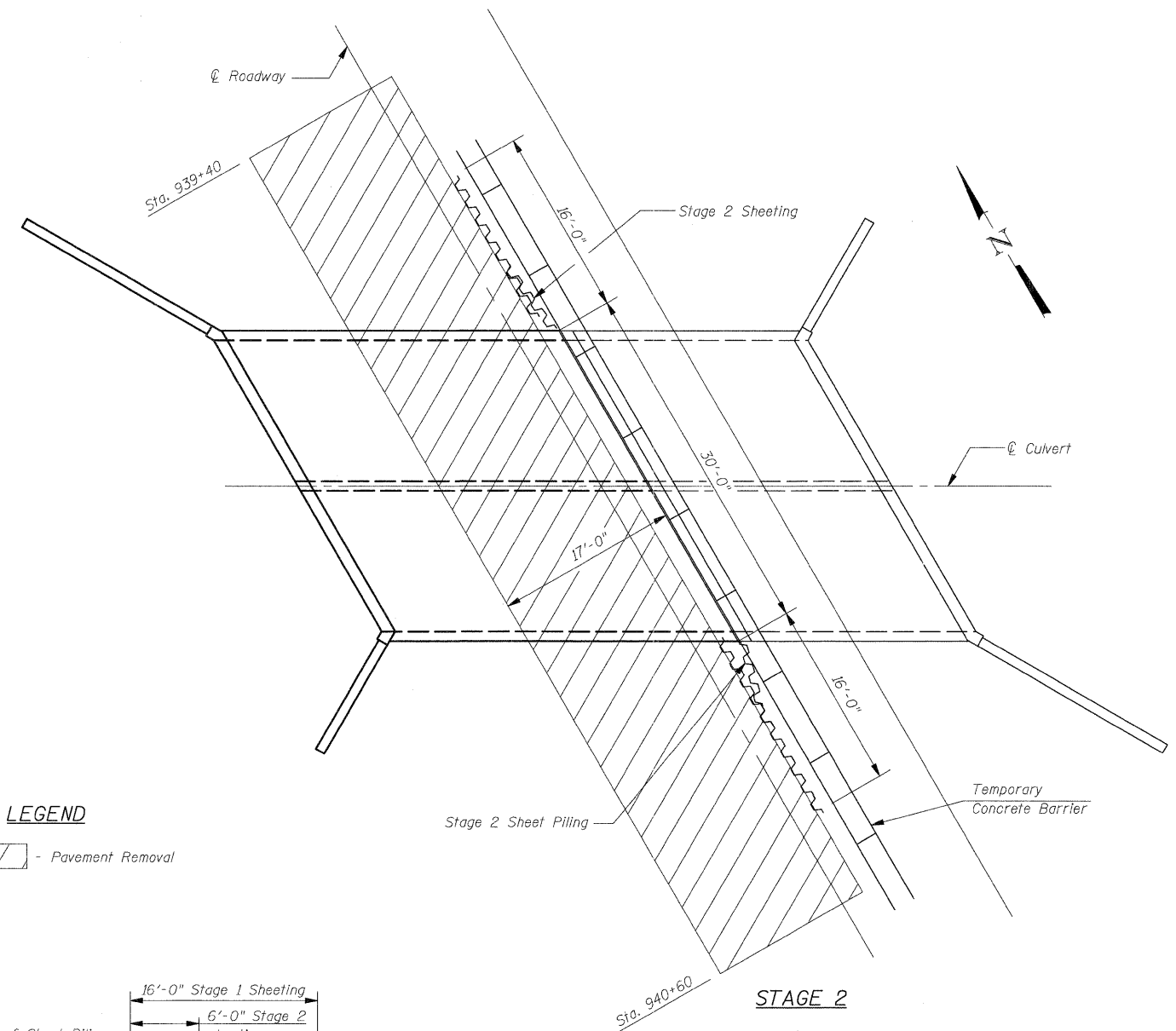
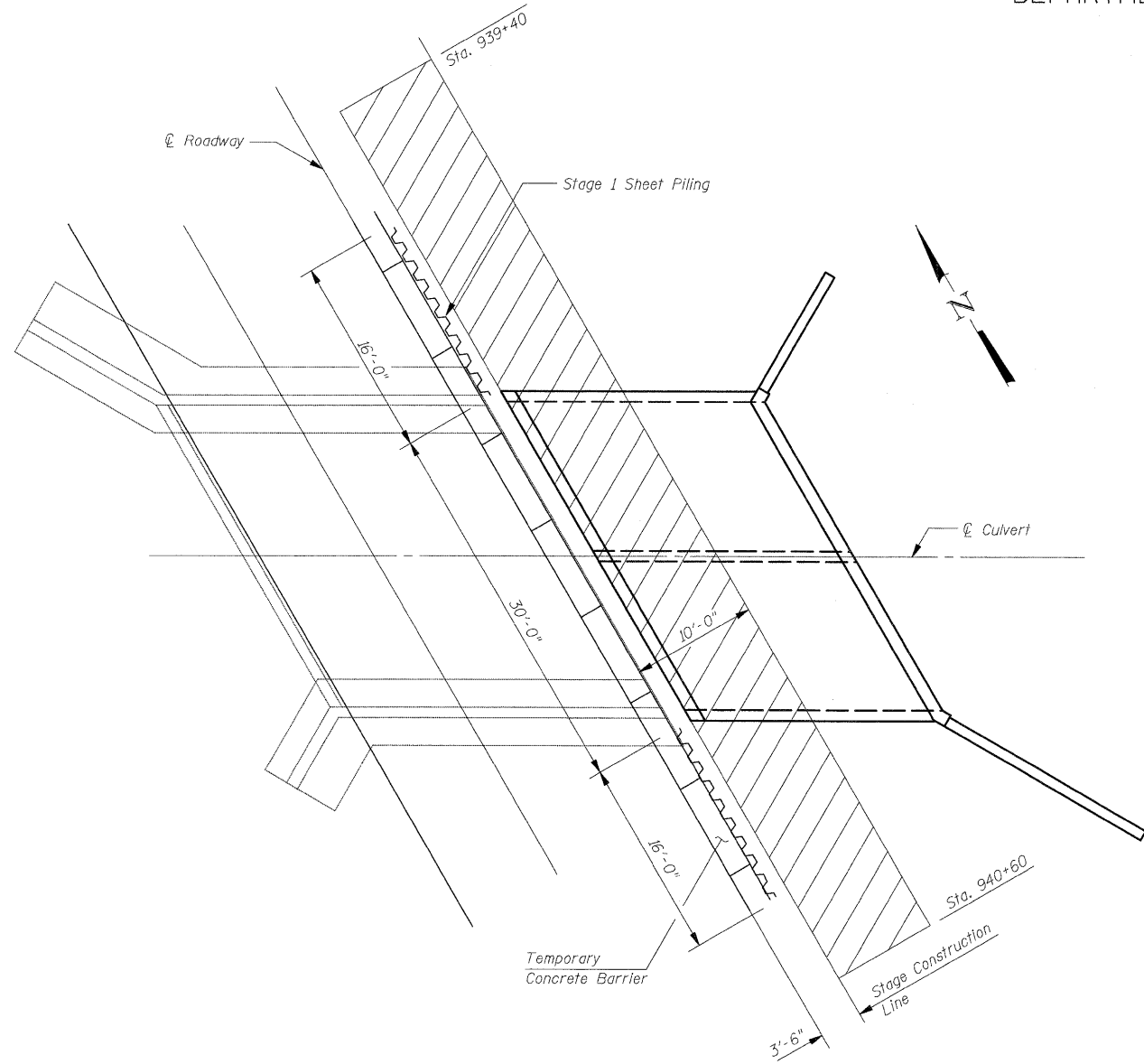


David Booher, Illinois S.E. 081-004775  
Expires 11-30-2010

11-20-09  
Date

SHEET NO. 1	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OF 9 SHEETS	*	114B-1(1) & 114B-1(2)	FAYETTE	54	19
		* F.A.P. RTE. 750, F.A.S. RTE. 719	CONTRACT NO. 74110		
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

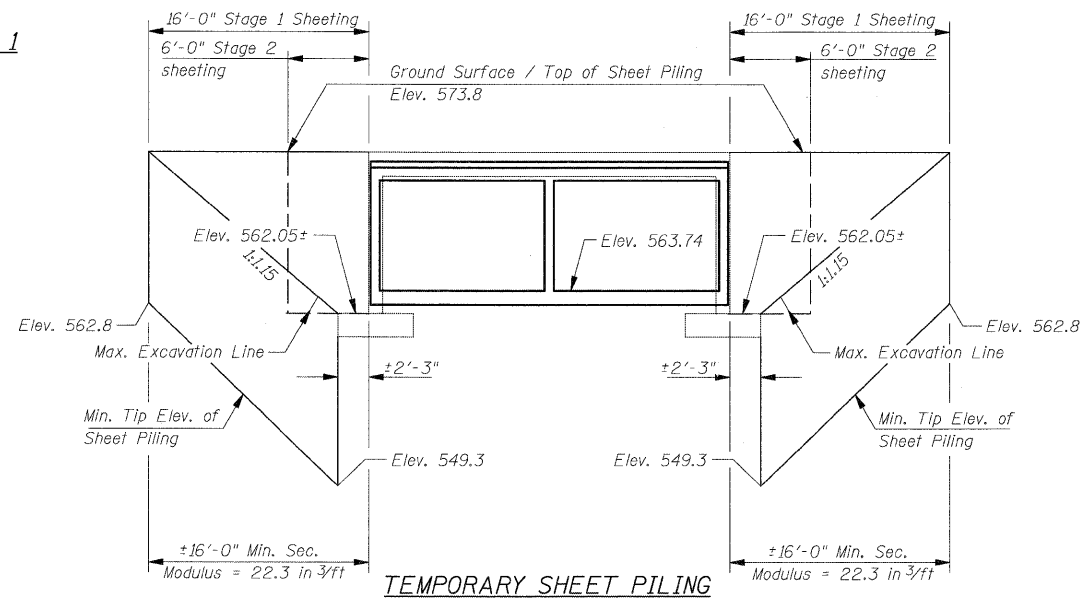
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



LEGEND

- Pavement Removal

STAGE 1



STAGE 2

Notes:  
If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.  
The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

STAGE CONSTRUCTION DETAILS  
& TEMPORARY SHEET PILING  
S.N. 026-2020

DESIGNED	SCD
CHECKED	DRB
DRAWN	THW
CHECKED	-

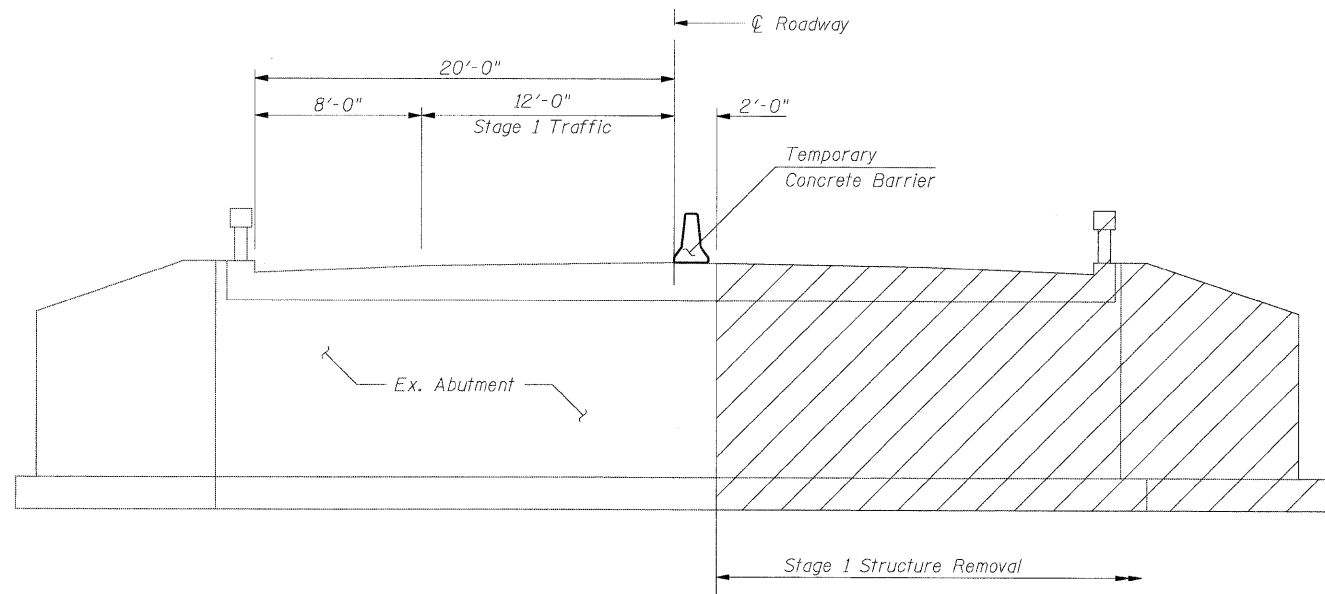


IE CONSULTANTS, INC  
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FAX (217) 529-4543  
IESPRINGFIELD@IE-CONSULTANTS.COM  
WWW.IE-CONSULTANTS.COM

SHEET NO. 2	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OF 9 SHEETS	*	114B-1(1) & 114B-1(2)	FAYETTE	54	20
		* F.A.P. RTE. 750, F.A.S. RTE. 719		CONTRACT NO. 74110	
		FED. ROAD DIST. NO. _ ILLINOIS		FED. AID PROJECT	

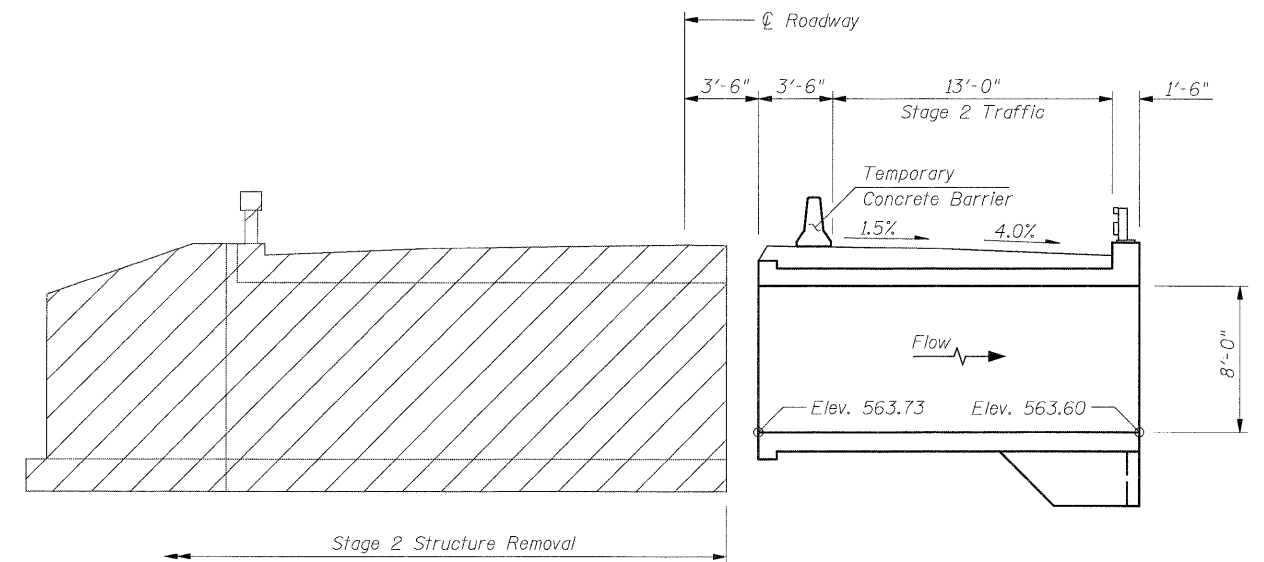


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



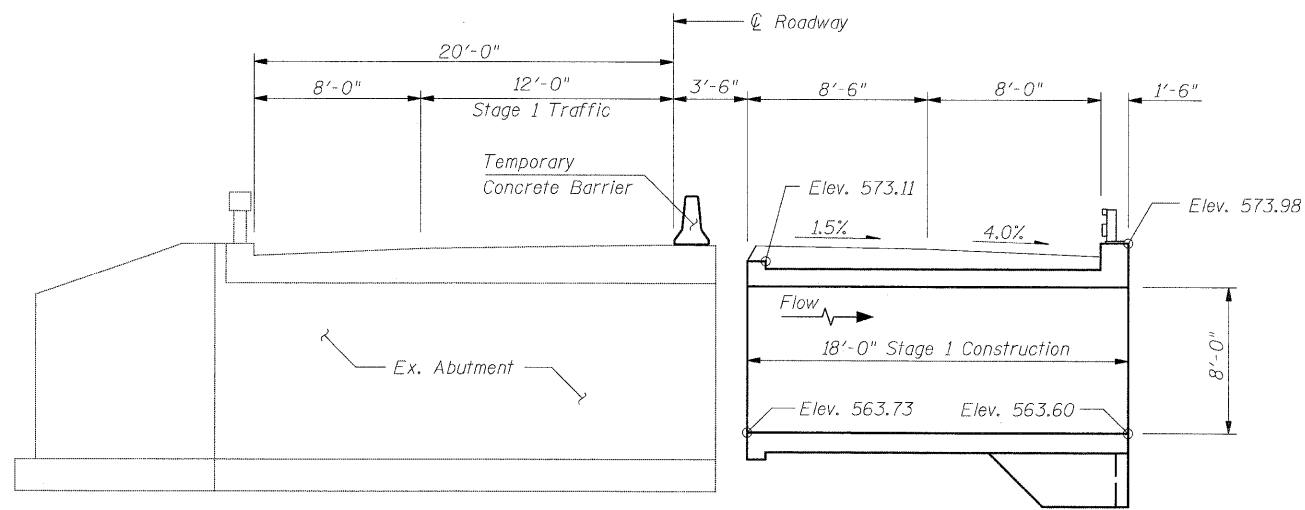
**STAGE 1 REMOVAL**

(Dim. @ Rt. ∠'s to C Roadway)



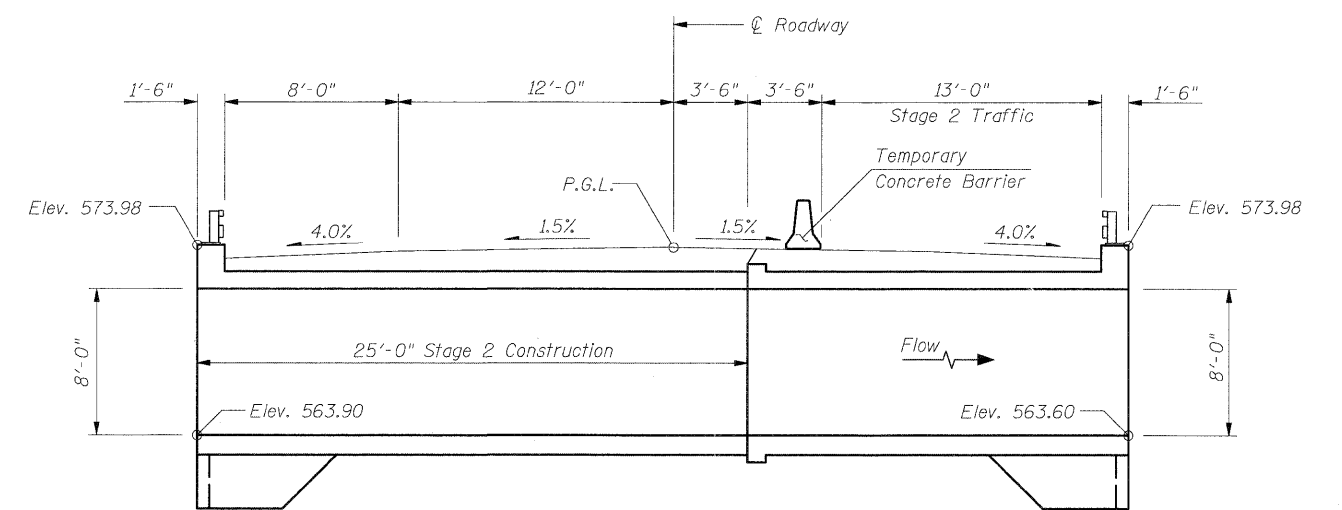
**STAGE 2 REMOVAL**

(Dim. @ Rt. ∠'s to C Roadway)



**STAGE 1 CONSTRUCTION**

(Dim. @ Rt. ∠'s to C Roadway)



**STAGE 2 CONSTRUCTION**

(Dim. @ Rt. ∠'s to C Roadway)

**STAGE CONSTRUCTION DETAILS**  
**S.N.026-2020**

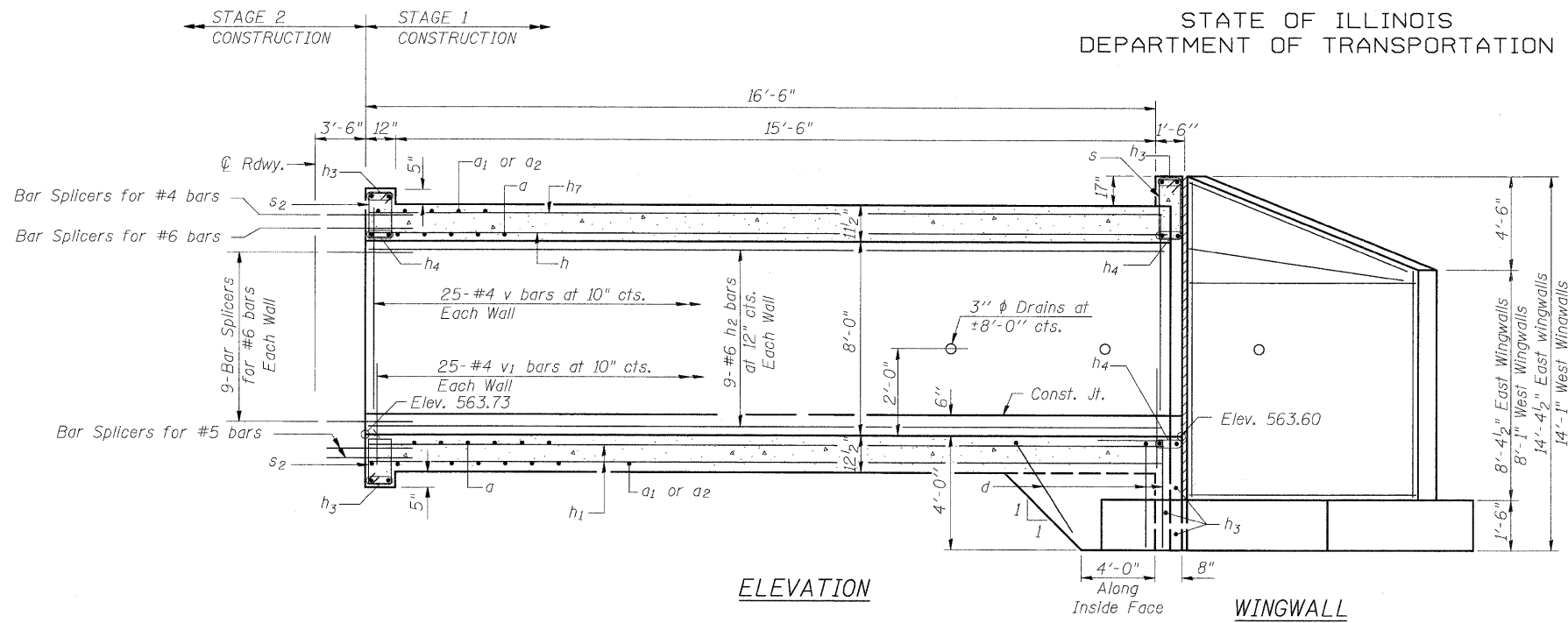
DESIGNED	SCD
CHECKED	DRB
DRAWN	THW
CHECKED	-



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SHEET NO. 3	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OF 9 SHEETS	*	114B-1(1) & 114B-1(2)	FAYETTE	54	21
* F.A.P. RTE. 750, F.A.S. RTE. 719			CONTRACT NO. 74110		
FED. ROAD DIST. NO. _			ILLINOIS FED. AID PROJECT		

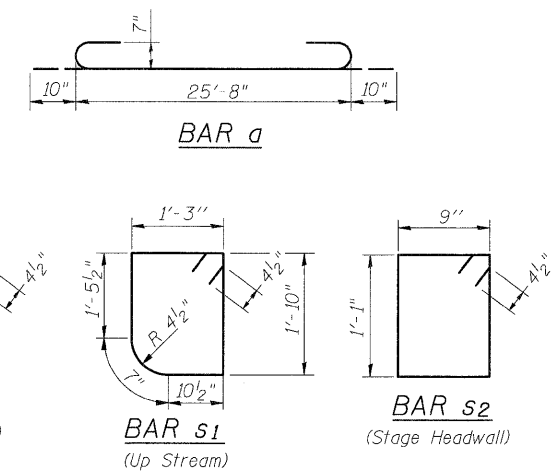
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



ELEVATION

Dimensions are at Right Angles to  $\varnothing$  Roadway

WINGWALL  
(See Sheet 5 of 9 for Reinforcement Details)

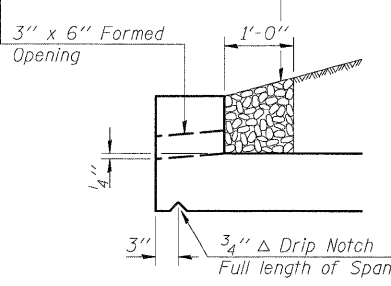
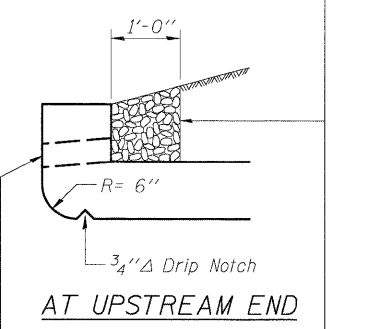


Notes:  
Bars indicated thus 12x4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

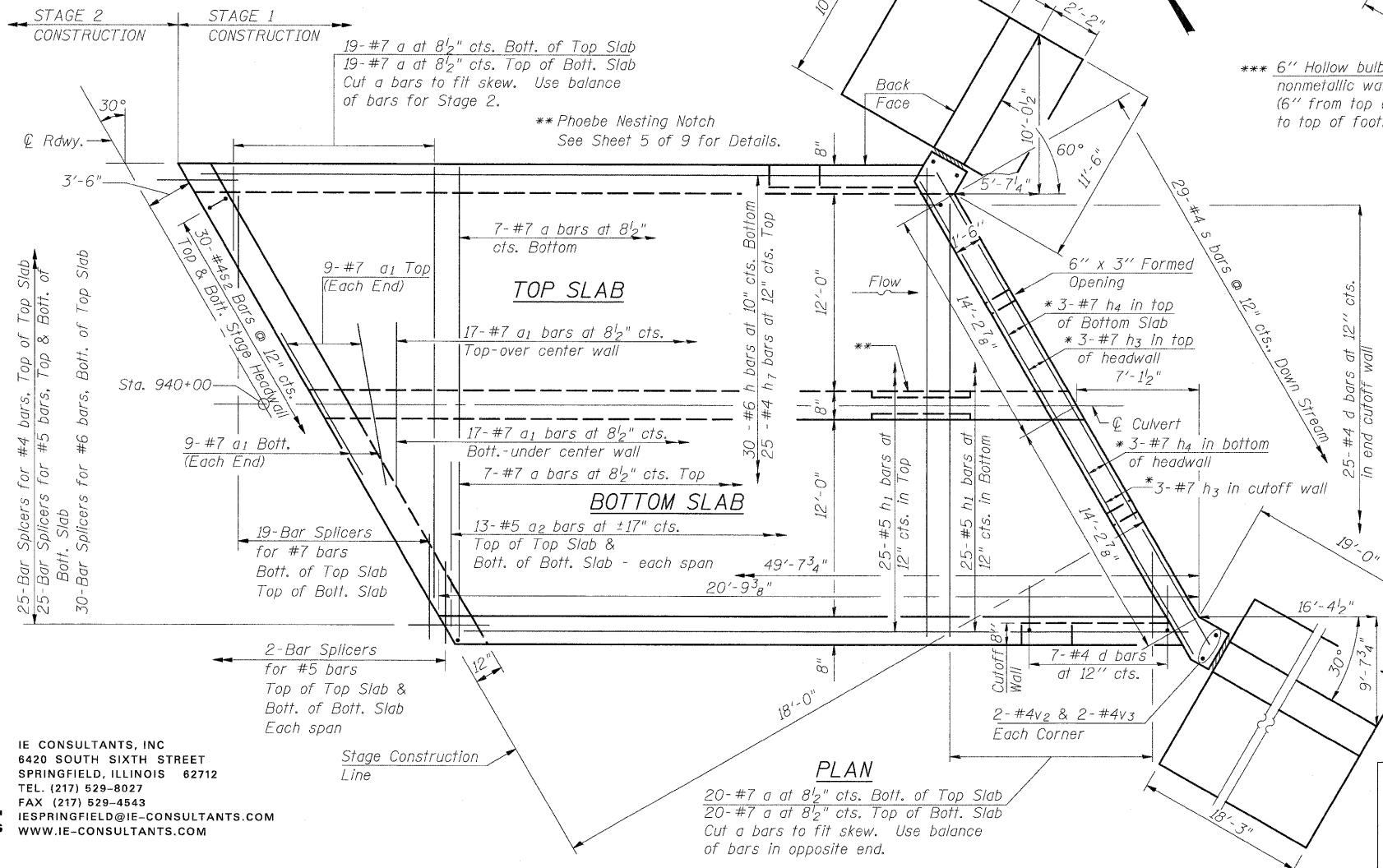
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	130	#7	27'-4"	
a1	166	#7	11'-0"	
a2	132	#5	9'-1"	
d	78	#4	5'-6"	
h	30	#6	20'-6"	
h1	50	#5	20'-6"	
h2	27	#6	20'-6"	
h3	18	#7	28'-2"	
h4	18	#7	29'-8"	
h5	38	#4	10'-6"	
h6	38	#4	18'-0"	
h7	25	#4	20'-6"	
h8	30	#6	28'-6"	
h9	50	#5	28'-6"	
h10	27	#6	28'-6"	
h11	25	#4	28'-6"	
n(E)	70	#6	5'-4"	
s	29	#4	7'-5"	
s1	29	#4	6'-9"	
s2	60	#4	4'-5"	
t	136	#4	6'-5"	
v	180	#4	8'-3"	
v1	180	#4	2'-8"	
v2	8	#4	9'-11"	
v3	8	#4	5'-8"	
v4	20	#4	7'-6"	
v5	10	#4	8'-3"	
v6	20	#4	9'-3"	
v7	20	#4	10'-6"	
v8	20	#4	12'-6"	
w	20	#5	18'-0"	
w1	20	#5	10'-6"	
Concrete Box Culverts			Cu. Yd.	177.8
Reinforcement Bars, Epoxy Coated			Pound	570
Reinforcement Bars			Pound	26,570
Bar Splicers			Each	178

Coarse aggregate full length of both headwalls. To be placed by Grading Contractor. Cost included with Concrete Box Culverts.

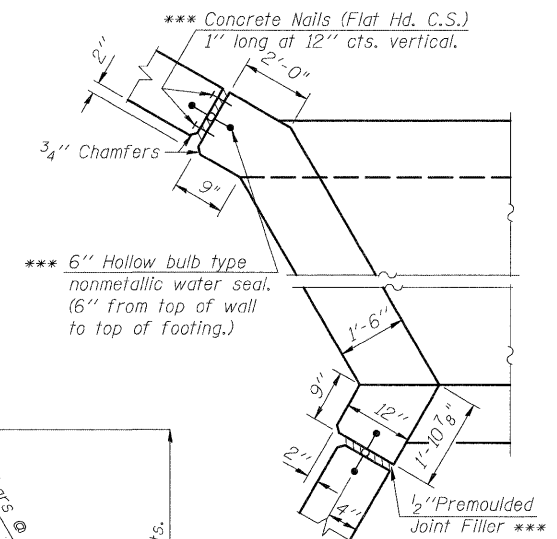


DRAIN DETAIL



PLAN

20-#7 a at 8 1/2" cts. Bott. of Top Slab  
20-#7 a at 8 1/2" cts. Top of Bott. Slab  
Cut a bars to fit skew. Use balance of bars in opposite end.



CORNER DETAIL

\*\*\* (Cost of all items shall be included in the cost of Concrete Box Culverts.)

\* Typical each end and Stage Headwall.

DESIGNED	SCD
CHECKED	DRB
DRAWN	THW
CHECKED	

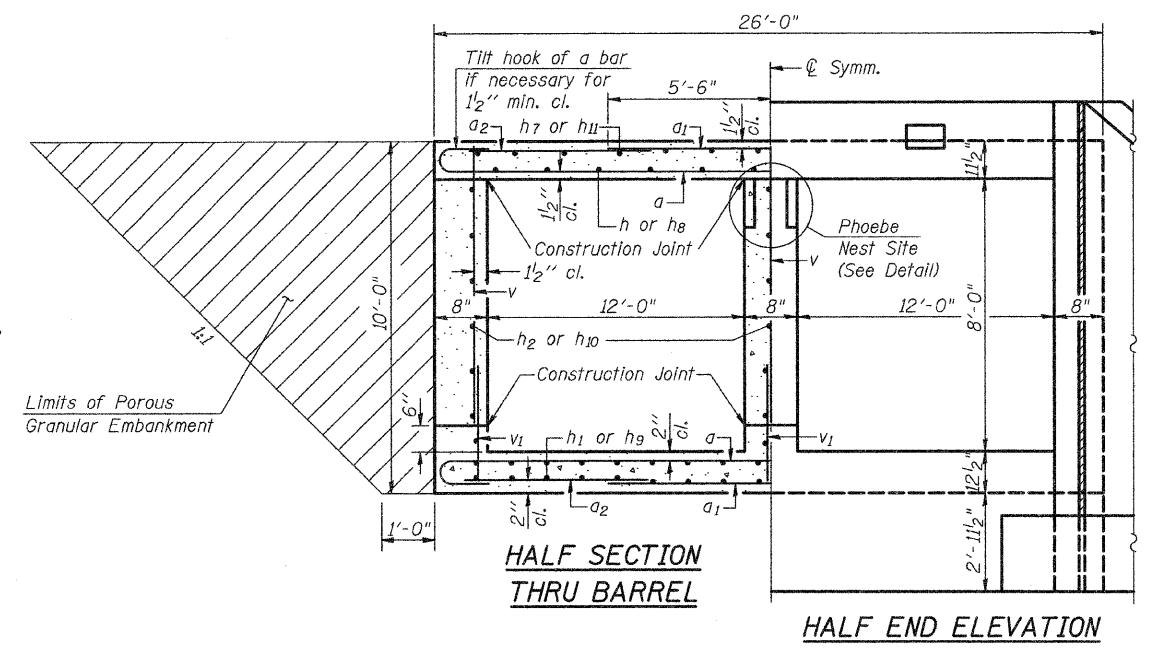
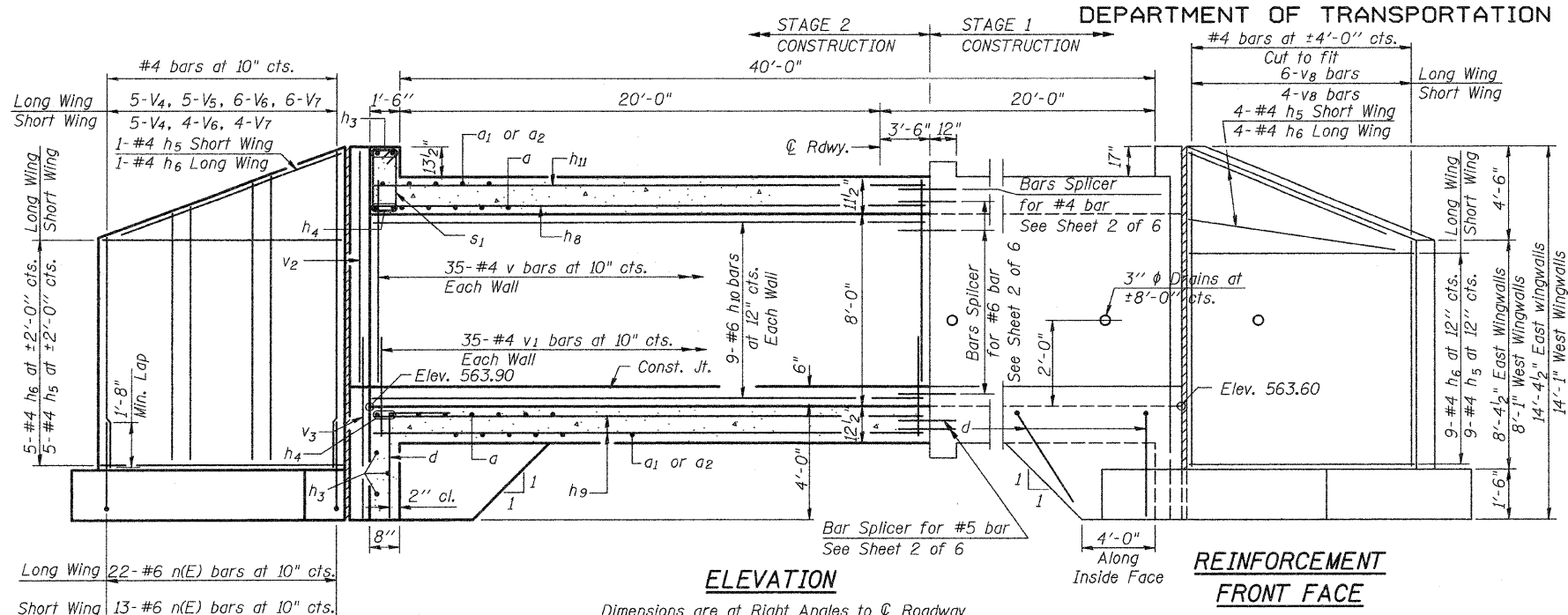


IE CONSULTANTS, INC  
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FAX (217) 529-4543  
IESPRINGFIELD@IE-CONSULTANTS.COM  
WWW.IE-CONSULTANTS.COM

STAGE 1 CULVERT DETAILS  
S.N. 026-2020

SHEET NO. 4 OF 9 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	114B-1(1) & 114B-1(2)	FAYETTE	54	22
FED. ROAD DIST. NO. _		ILLINOIS FED. AID PROJECT		CONTRACT NO. 74110	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



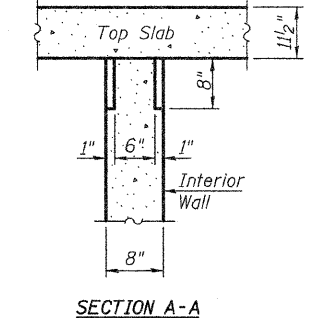
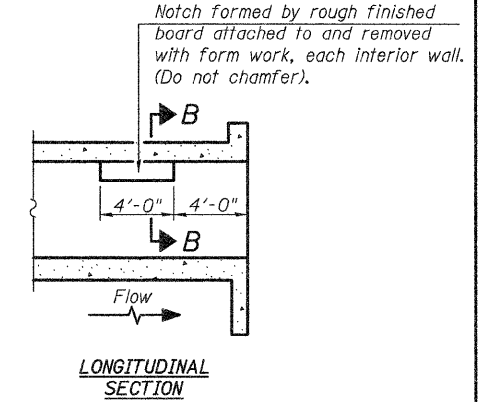
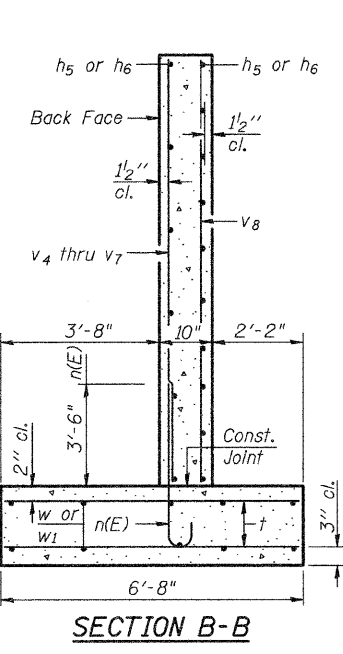
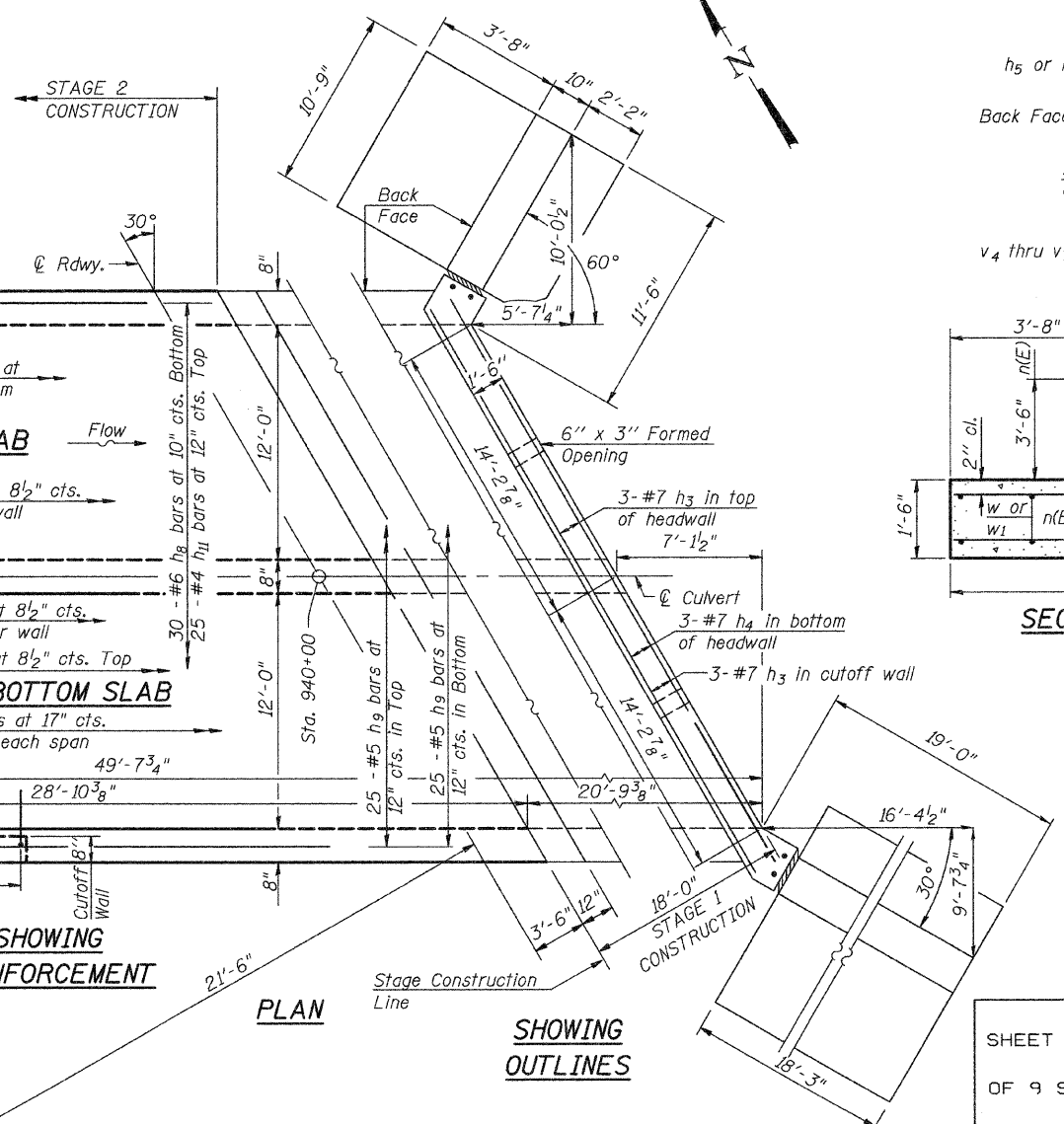
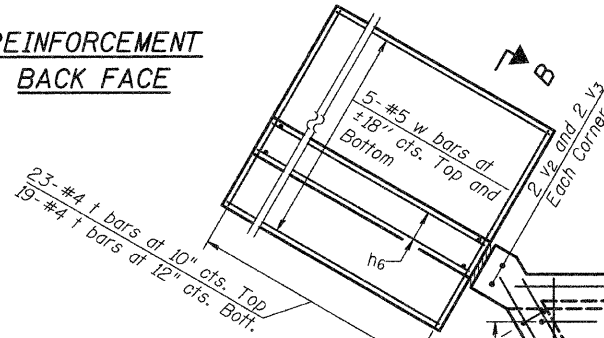
Long Wing 22-#6 n(E) bars at 10" cts.  
Short Wing 13-#6 n(E) bars at 10" cts.

**ELEVATION**

Dimensions are at Right Angles to  $\text{\textcircled{C}}$  Roadway

**REINFORCEMENT FRONT FACE**

**REINFORCEMENT BACK FACE**



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

**STAGE 2 CULVERT DETAILS**  
S.N. 026-2020

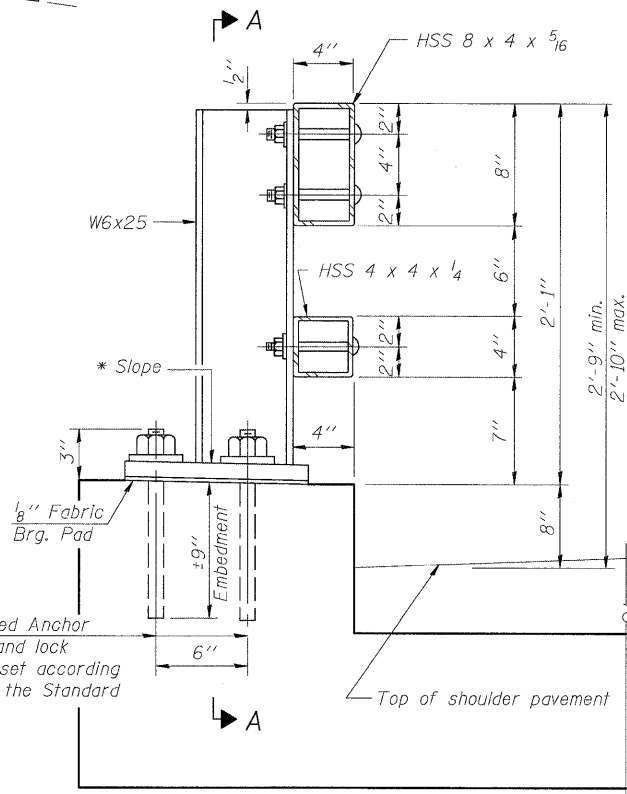
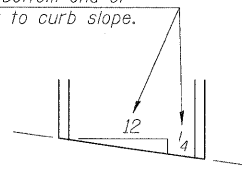
DESIGNED	SCD
CHECKED	DRB
DRAWN	THW
CHECKED	-

**ie** consultants  
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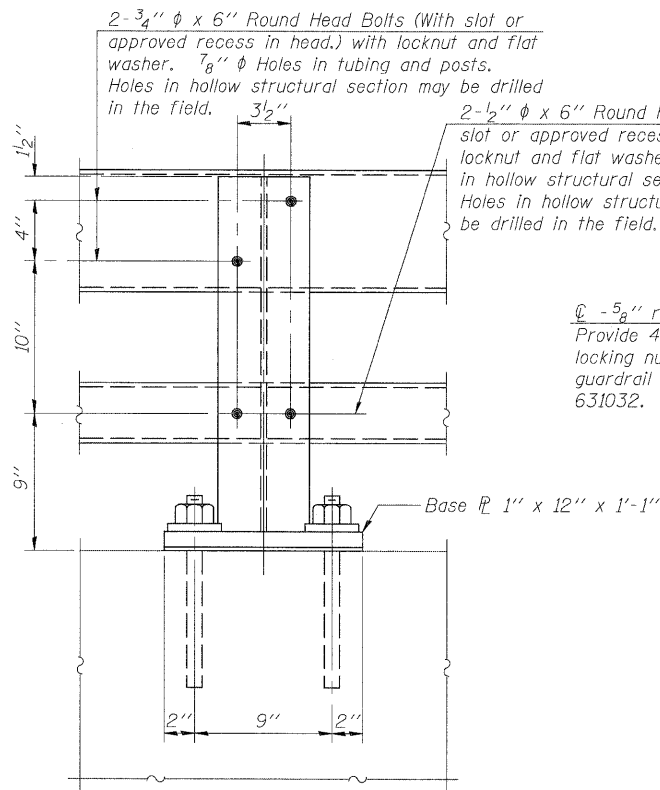
SHEET NO. 5 OF 9 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	114B-1(1) & 114B-1(2)	FAYETTE	54	23
* F.A.P. RTE. 750, F.A.S. RTE. 719		CONTRACT NO. 74110			
FED. ROAD DIST. NO. -		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

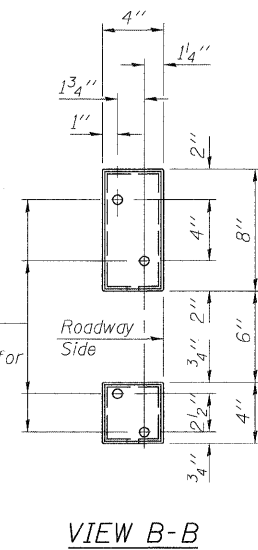
\* Cut bottom end of post to curb slope.



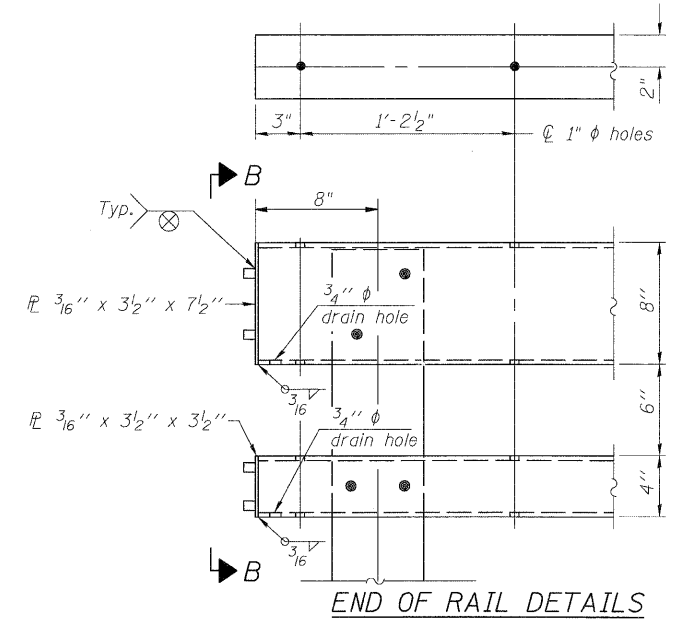
SECTION AT RAIL POST



SECTION A-A



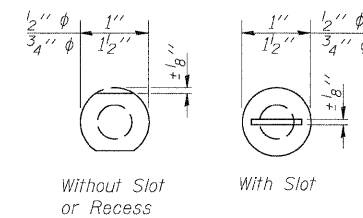
VIEW B-B



END OF RAIL DETAILS

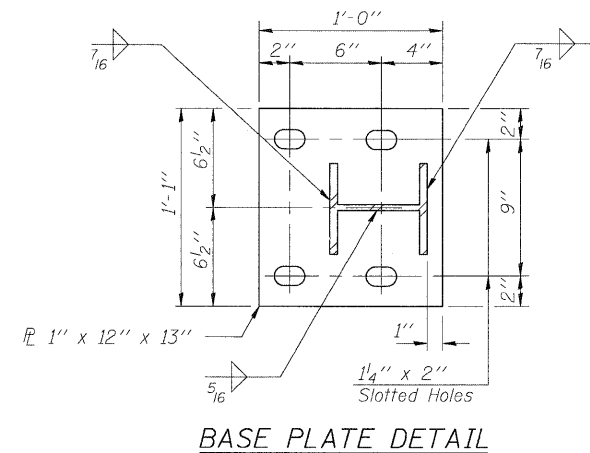
Notes:

- All field drilled holes shall be coated with an approved zinc rich paint before erection.
- Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.
- Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow ralling movement.
- Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.
- All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

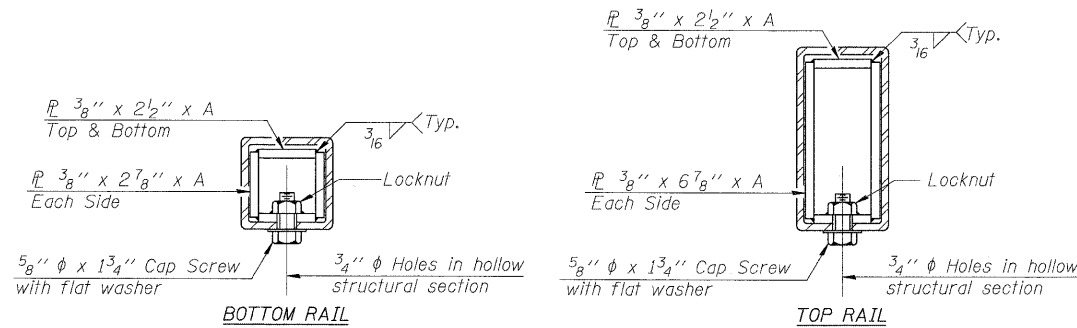


VIEW C-C

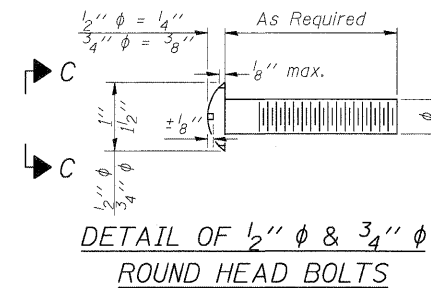
4- 1"  $\phi$  H.S. Threaded Anchor Rods with hex nuts and lock washers, drilled and set according to Article 509.06 of the Standard Specifications.



BASE PLATE DETAIL



SECTIONS AT RAIL SPLICE



DETAIL OF 1/2"  $\phi$  & 3/4"  $\phi$  ROUND HEAD BOLTS

SPLICE DIMENSIONS

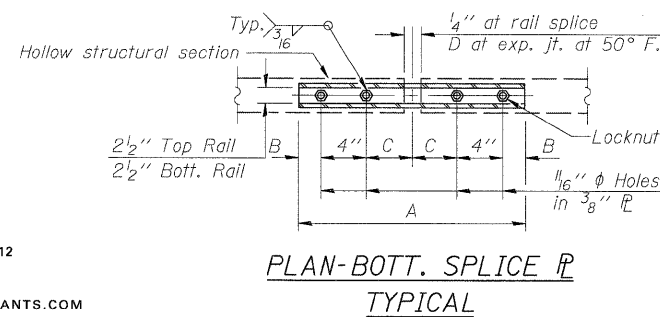
T	D	A	B	C	E
$\leq 4"$	2 1/2"	1'-8"	2"	4"	2 1/2"
$> 4" \leq 6 1/2"$	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
$> 6 1/2" \leq 9"$	5"	2'-4"	3 1/2"	6 1/2"	9"
$> 9" \leq 13"$	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

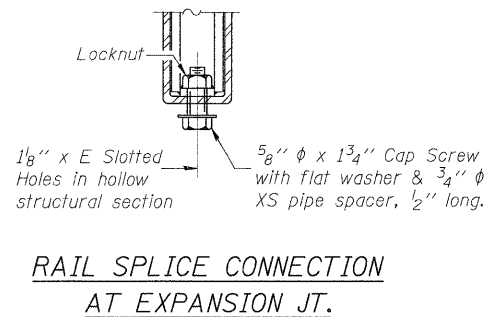
BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	56

See sheet 1 of 9 for post spacing.



PLAN-BOTT. SPLICE R TYPICAL



RAIL SPLICE CONNECTION AT EXPANSION JT.

DESIGNED	SCD
CHECKED	DRB
DRAWN	THW
CHECKED	-



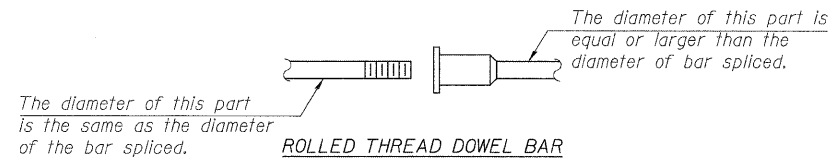
IE CONSULTANTS, INC.  
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(6'-3" Maximum Post Spacing)

STEEL RAILING, TYPE 2399  
S.N. 026-2020

SHEET NO. 6	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OF 9 SHEETS	*	114B-1(1) & 114B-1(2)	FAYETTE	54	24
	*	F.A.P. RTE. 750, F.A.S. RTE. 719	CONTRACT NO. 74110		
		FED. ROAD DIST. NO. _ ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

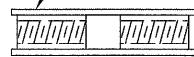


ROLLED THREAD DOWEL BAR



\*\* ONE PIECE

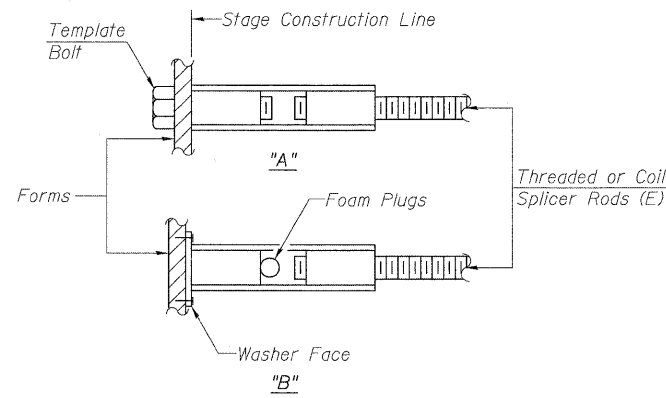
Wire Connector



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

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



INSTALLATION AND SETTING METHODS

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

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

(E) : Indicates epoxy coating.

NOTES

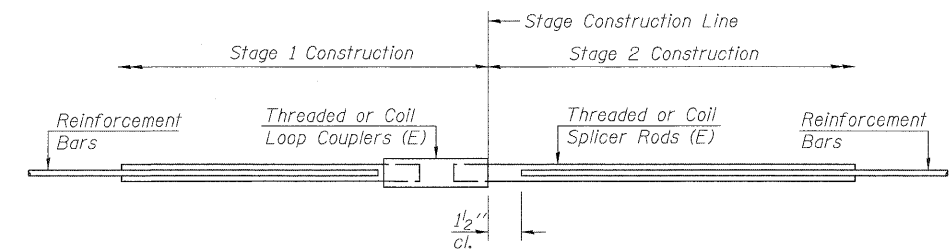
Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.  
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.  
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.  
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

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

- ① Minimum Capacity =  $1.25 \times f_y \times A_t$   
(Tension in kips)
- ② Minimum \*Pull-out Strength =  $0.66 \times f_y \times A_t$   
(Tension in kips)

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

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-2"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8



STANDARD

Bar Size	No. Assemblies Required	Location
#4	25	Top Slab
#5	58	Top & Bott. Slab
#6	30	Top Slab
#6	27	Side Walls
#7	38	Top & Bott. Slab

BAR SPLICER ASSEMBLY DETAILS  
S.N. 026-2020

DESIGNED	SCD
CHECKED	DRB
DRAWN	THW
CHECKED	

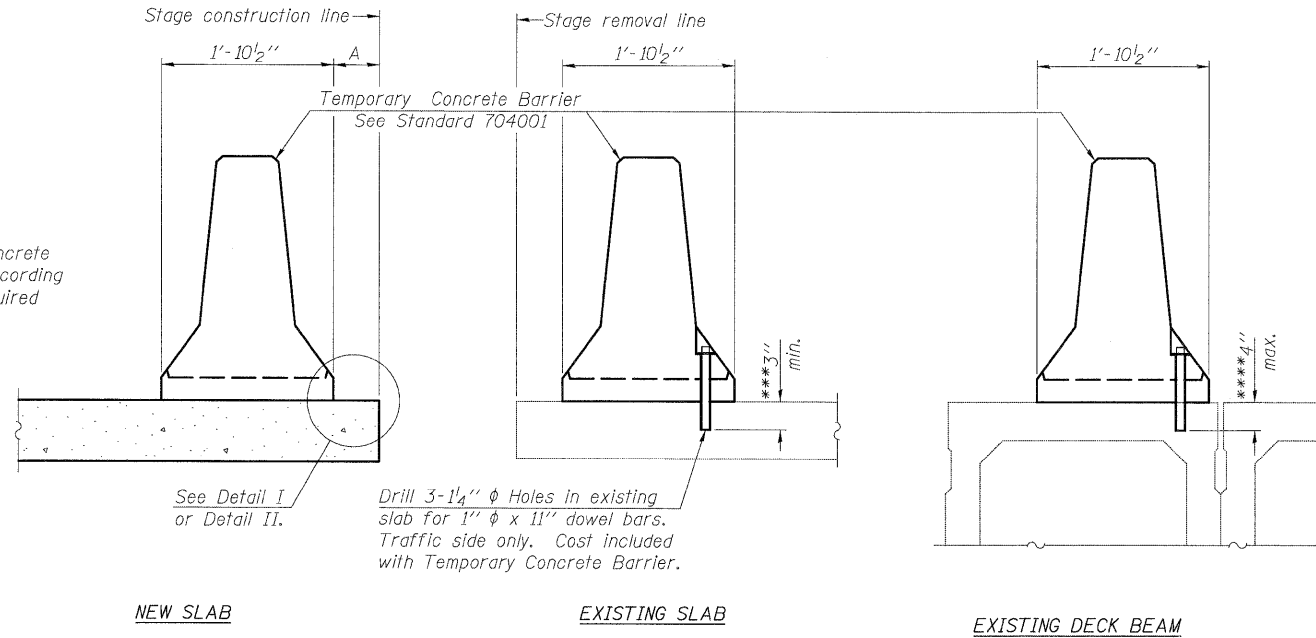


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SHEET NO. 7	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OF 9 SHEETS	*	114B-1(1) & 114B-1(2)	FAYETTE	54	25
		* F.A.P. RTE. 750, F.A.S. RTE. 719	CONTRACT NO. 74110		
		FED. ROAD DIST. NO. - ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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".



Drill 3-1/4"  $\phi$  Holes in existing slab for 1"  $\phi$  x 11" dowel bars. Traffic side only. Cost included with Temporary Concrete Barrier.

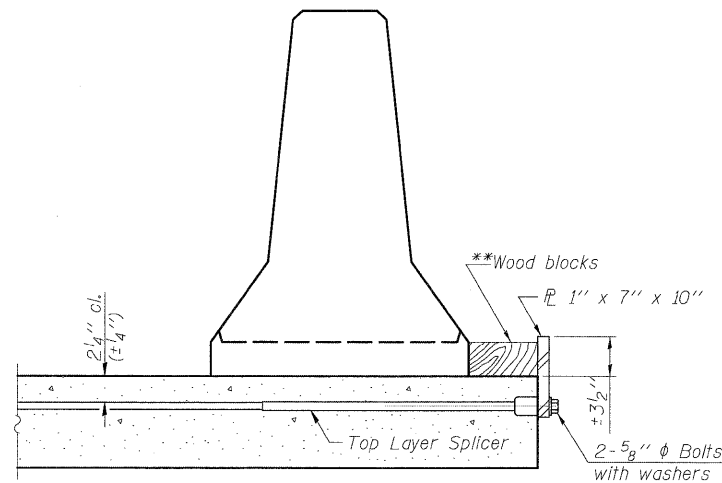
SECTIONS THRU SLAB OR DECK BEAM

NOTES

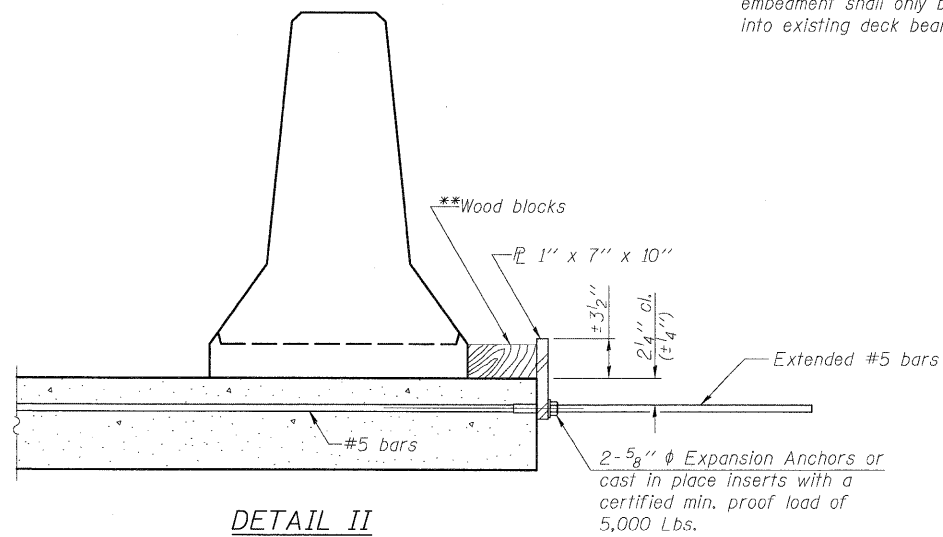
- Detail I - With Bar Splicer or Couplers:  
Connect one (1) 1"x7"x10" steel  $\bar{L}$  to the top layer of couplers with 2-5/8"  $\phi$  bolts screwed to coupler at approximate  $\bar{C}$  of each barrier panel.
- Detail II - With Extended Reinforcement Bars:  
Connect one (1) 1"x7"x10" steel  $\bar{L}$  to the concrete slab or concrete wearing surface with 2-5/8"  $\phi$  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 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

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

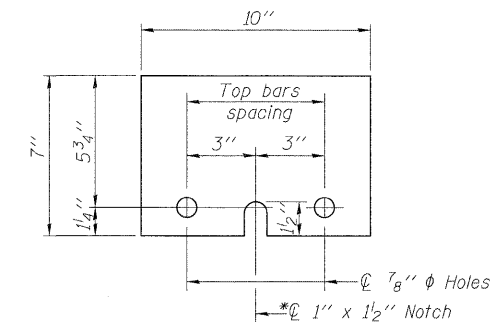
\*\*\*\* If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER  $\bar{L}$  1" x 7" x 10"

\* Required only with Detail II

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

DESIGNED	SCD
CHECKED	DRB
DRAWN	THW
CHECKED	-

R-27

10-1-08



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TEMPORARY CONCRETE BARRIER  
FOR STAGE CONSTRUCTION  
S.N. 026-2020

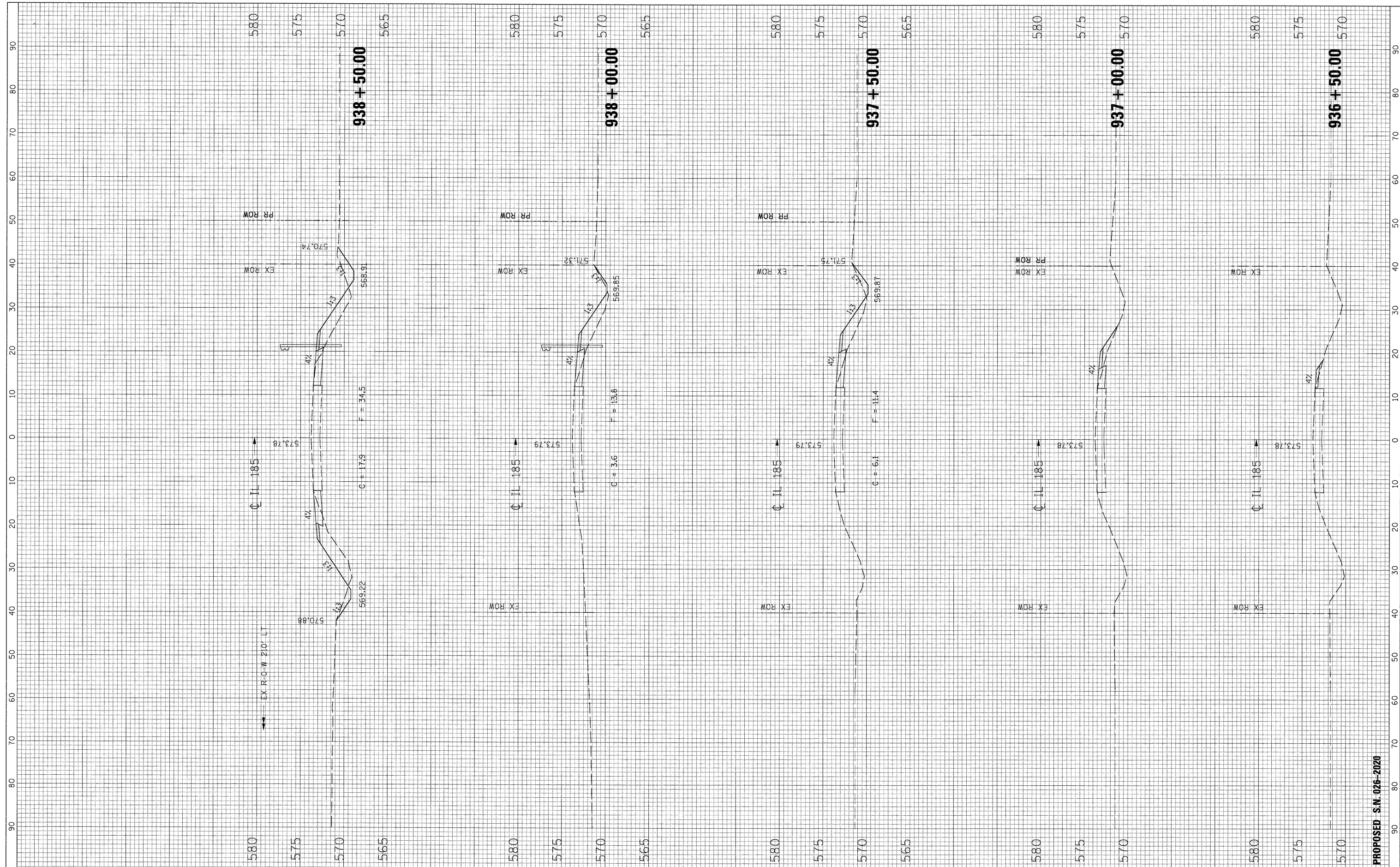
SHEET NO. 8	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OF 9 SHEETS	*	114B-1(1) & 114B-1(2)	FAYETTE	54	26
		* F.A.P. RTE. 750, F.A.S. RTE. 719	CONTRACT NO. 74110		
		FED. ROAD DIST. NO. -	ILLINOIS FED. AID PROJECT		





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

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



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 PLOT SCALE = 10.0000' / IN.  
 PLOT DATE = 9/29/2009

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - IL ROUTE 185**

SCALE: SHEET NO. OF SHEETS STA. 936+50.00 TO STA. 938+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• 114B-1(1) & 114B-1(2)	FAYETTE		54	28
• F.A.P. RTE. 750, F.A.S. RTE. 719	ILLINOIS FED. AID PROJECT		CONTRACT NO. 74110	

PROPOSED S.N. 026-2020

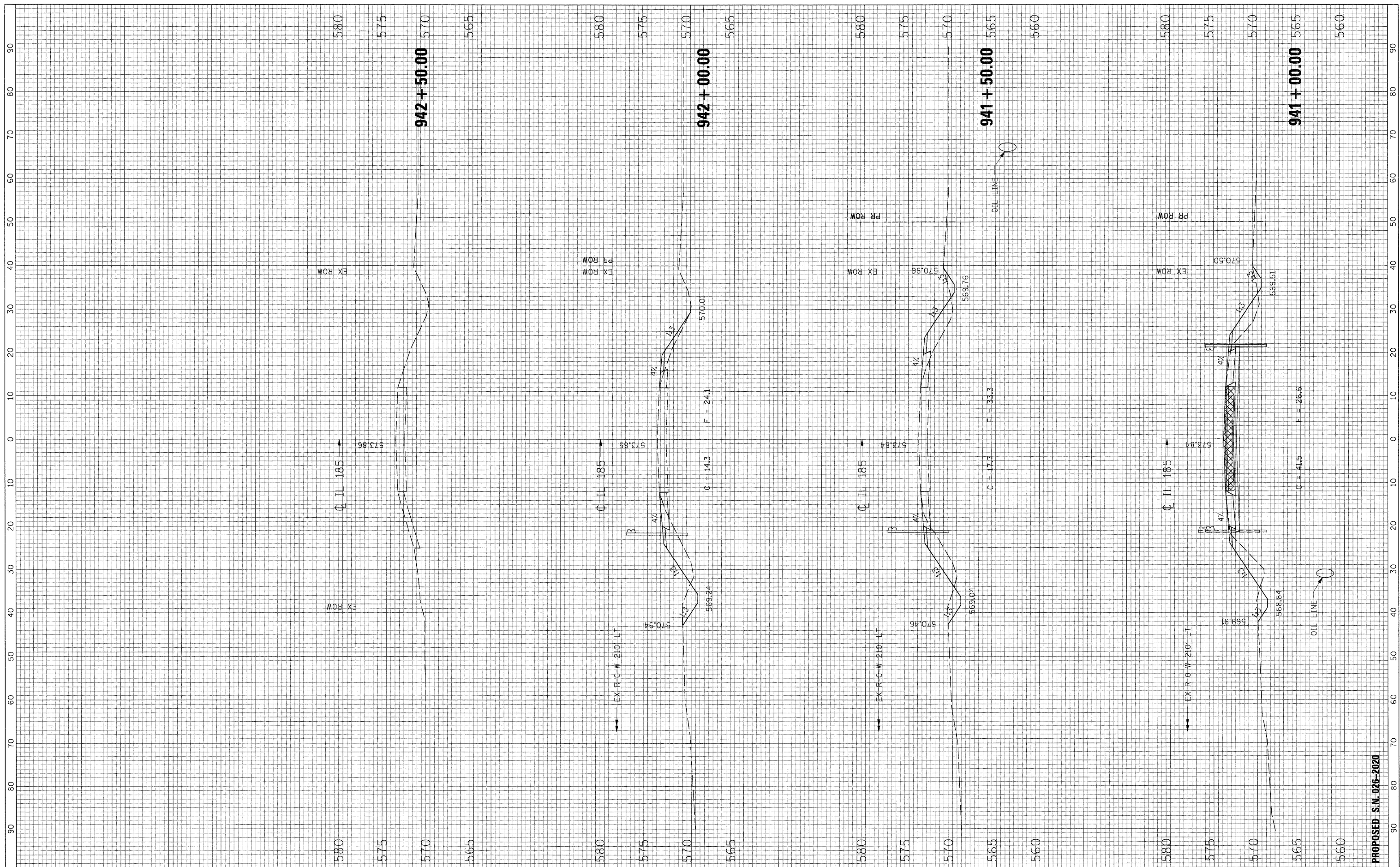






FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

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



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DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

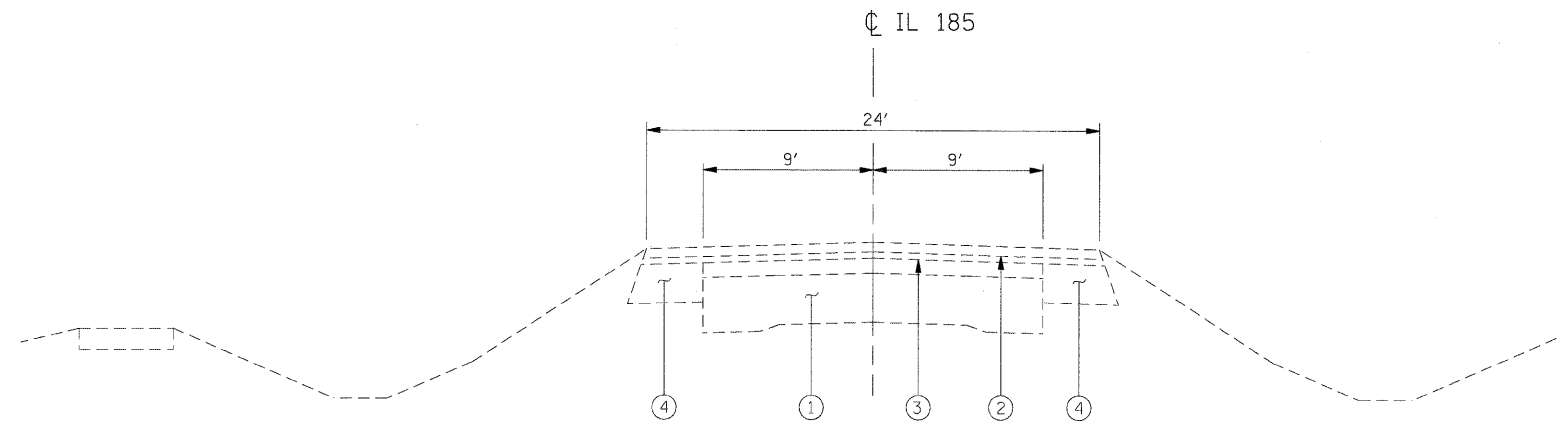
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - IL ROUTE 185**

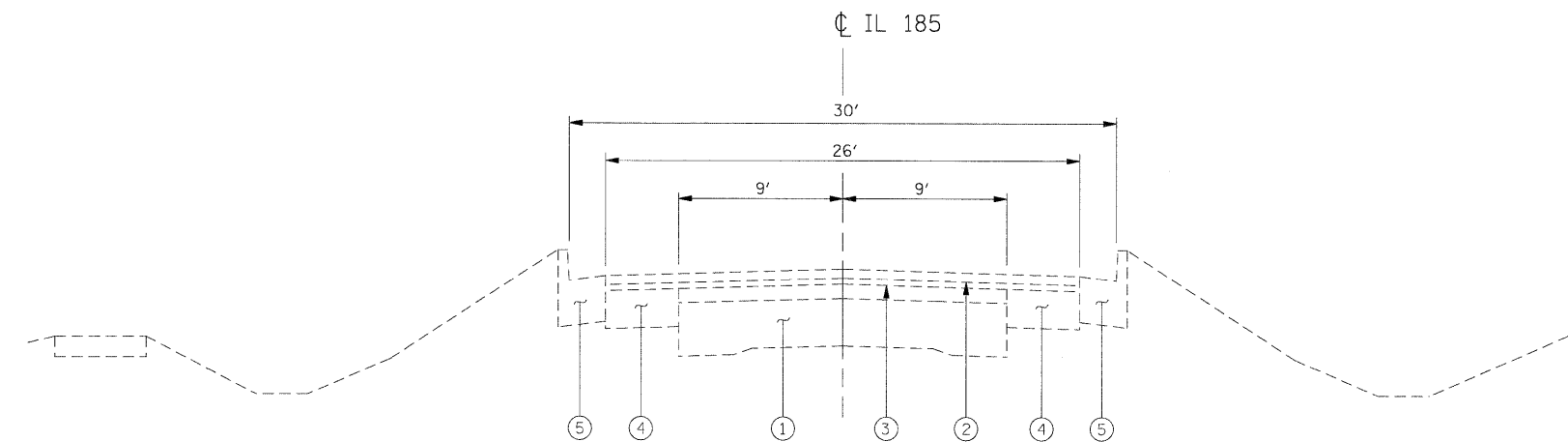
SCALE: SHEET NO. OF SHEETS STA. 941+00.00 TO STA. 942+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	114B-1(1) & 114B-1(2)	FAYETTE	54	30
*	F.A.P. RTE. 750, F.A.S. RTE. 719	CONTRACT NO.	74110	
ILLINOIS FED. AID PROJECT				

PROPOSED S.N. 026-2020



**EXISTING TYPICAL SECTION**  
STA. 1030+85 TO STA. 1033+15



**EXISTING TYPICAL SECTION**  
STA. 1033+15 TO STA. 1033+38.70  
BRIDGE OMISSION  
STA. 1033+68.70 TO STA. 1036+25

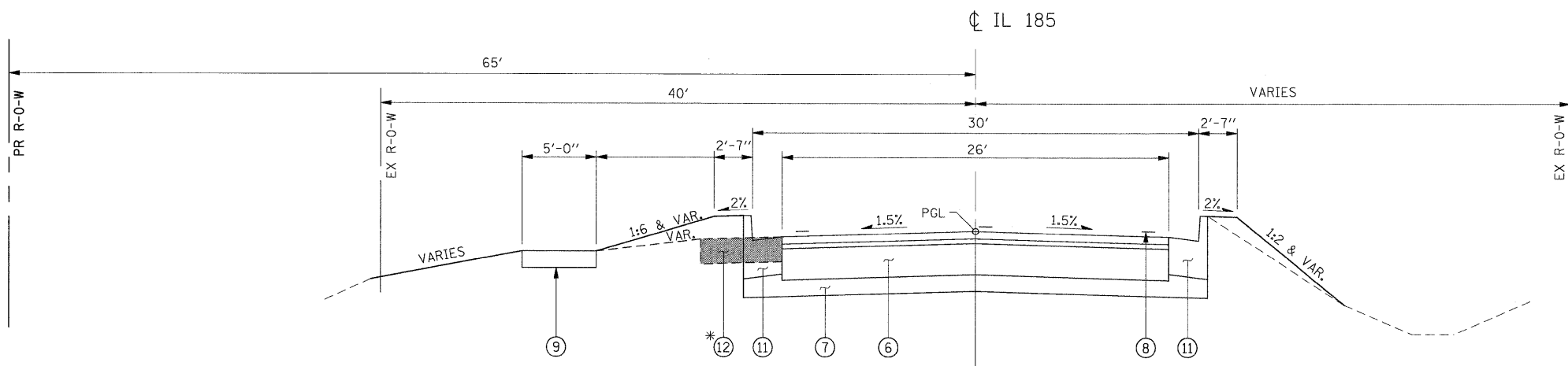
**LEGEND**

- ① EX P.C.C. PAVEMENT - 9"-6"-9"
- ② EX SUPERPAVE, MIX "C", N50, (1 1/2")
- ③ EX LEVELING BINDER, (MM), SUPERPAVE, N50, (1")
- ④ EX PCC BASE COURSE WIDENING, 9"
- ⑤ EX CONCRETE CURB AND GUTTER, TYPE B-6.24
- ⑥ HMA PAVEMENT (FULL-DEPTH), 13 1/2 "
- ⑦ AGGREGATE BASE COURSE, TYPE B
- ⑧ PAINT PVEMENT MARKING - LINE 4"
- ⑨ PCC SIDEWALK, 4 INCH
- ⑩ AGGREGATE SURFACE COURSE, TYPE B
- ⑪ COMBINATION CONCRETE C & G, TY B-6.24
- ⑫ BASE COURSE WIDENING 8"

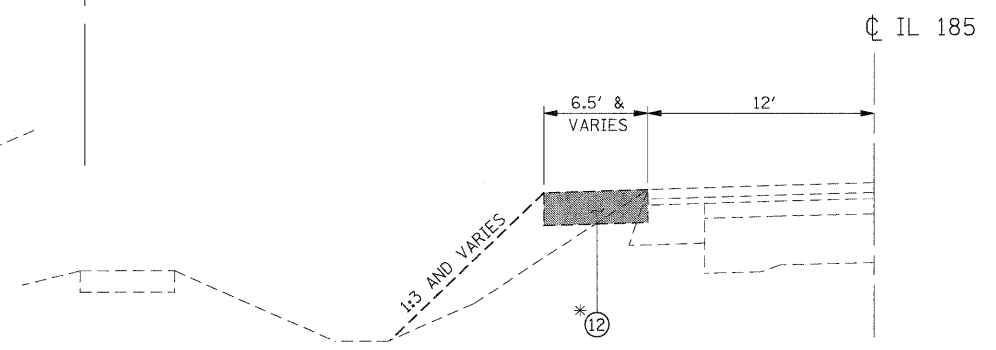
**PROPOSED S.N. 026-2019**

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G:\S08026-6\Cadd Sheets\0774111-shr-Typal01.dgn	DRAWN -	REVISED -	REVISED -						*	114B-1(1) & 114B-1(2)	FAYETTE	54	31
PLOT SCALE = 5.0000 ' / IN.	CHECKED -	REVISED -	REVISED -		* F.A.P. RTE. 750, F.A.S. RTE. 719				CONTRACT NO. 74110				
PLOT DATE = 9/29/2009	DATE -	REVISED -	REVISED -		FED. ROAD DIST. NO.				ILLINOIS FED. AID PROJECT				

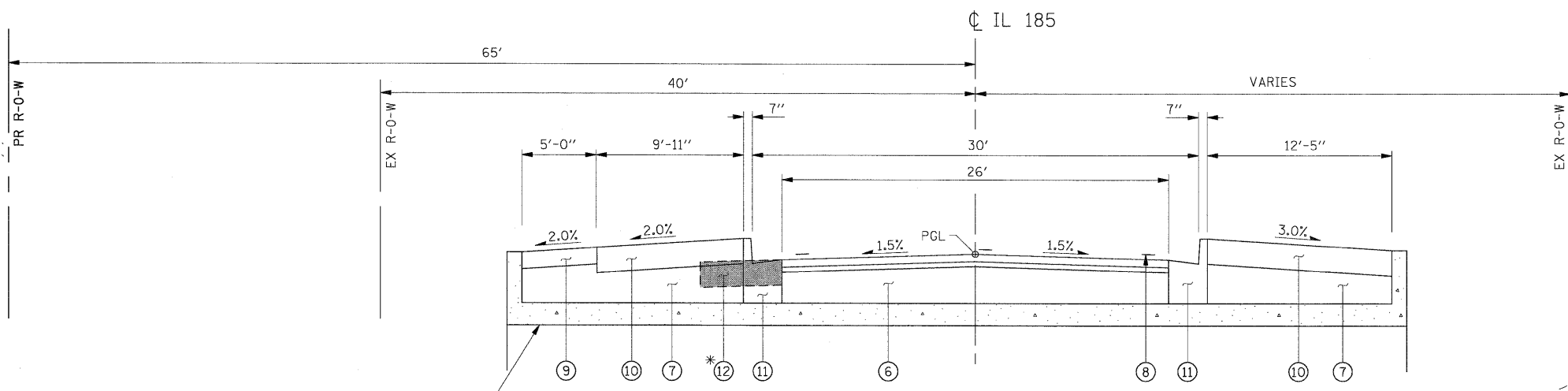
\* REMOVE EXISTING CURB & GUTTER AS REQUIRED, INSTALL BASE COURSE WIDENING IN STAGE 1 AND REPLACE WITH PROPOSED CURB & GUTTER IN STAGE 3.



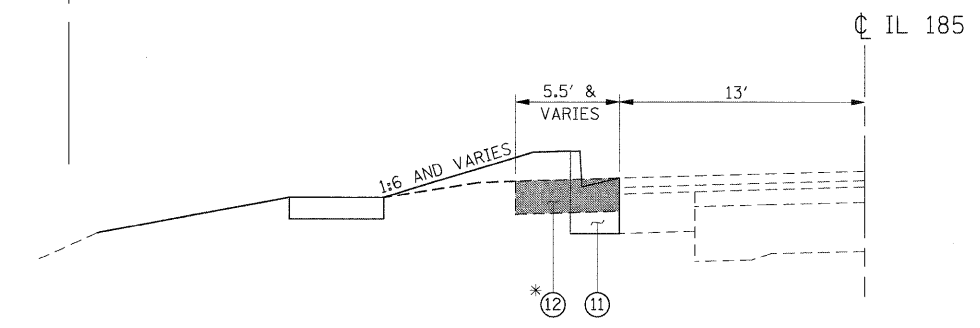
**PROPOSED TYPICAL SECTION**  
 STA. 1033+05 TO 1033+39  
 STA. 1033+69 TO STA. 1034+05



**PROPOSED TYPICAL SECTION**  
 STA. 1030+85 TO STA. 1033+05  
 (SEE "MAINTENANCE OF TRAFFIC PLANS")

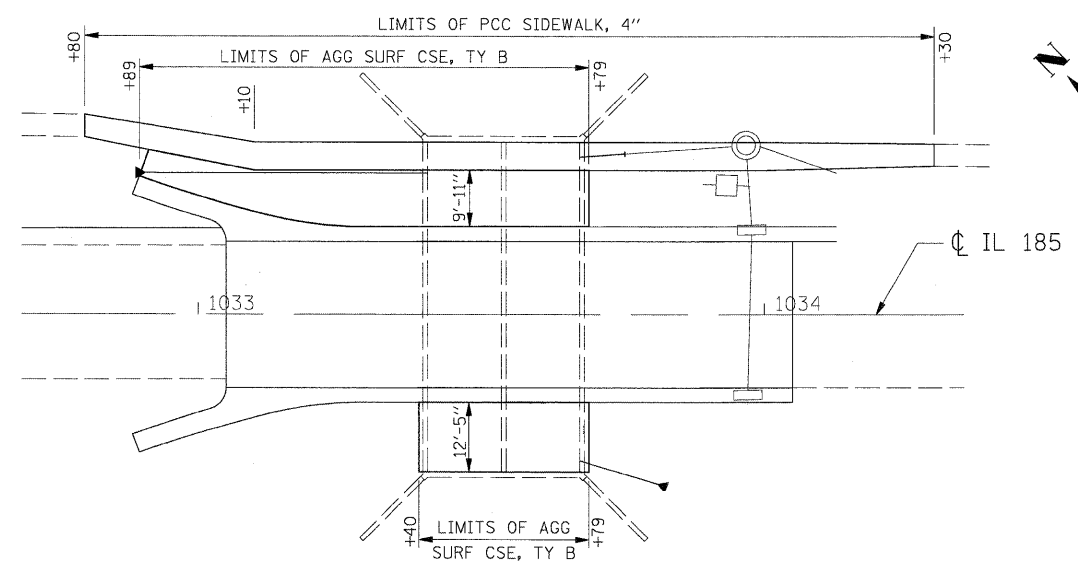


**PROPOSED TYPICAL SECTION**  
 STA. 1033+39 TO STA. 1033+69



**PROPOSED TYPICAL SECTION**  
 STA. 1034+05 TO STA. 1036+25  
 (SEE "MAINTENANCE OF TRAFFIC PLANS")

PR BOX CULVERT  
 DOUBLE 13' x 10'



**SIDEWALK PLAN**

**LEGEND**

- ① EX P.C.C. PAVEMENT - 9'-6"-9"
- ② EX SUPERPAVE, MIX "C", N50, (1 1/2")
- ③ EX LEVELING BINDER, (MM), SUPERPAVE, N50, (1")
- ④ EX PCC BASE COURSE WIDENING, 9"
- ⑤ EX CONCRETE CURB AND GUTTER, TYPE B-6.24
- ⑥ HMA PAVEMENT (FULL-DEPTH), 13 1/2 "
- ⑦ AGGREGATE BASE COURSE, TYPE B
- ⑧ PAINT PVEMENT MARKING - LINE 4"
- ⑨ PCC SIDEWALK, 4 INCH
- ⑩ AGGREGATE SURFACE COURSE, TYPE B
- ⑪ COMBINATION CONCRETE C & G, TY B-6.24
- ⑫ BASE COURSE WIDENING 8"

FILE NAME =	USER NAME = IE Consultants	DESIGNED -	REVISED -
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	PLOT SCALE = 5,0000 1 / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/29/2009	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>				
SCALE:	SHEET NO.	OF	SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	114B-1(1) & 114B-1(2)	FAYETTE	54	32
* F.A.P. RTE. 750, F.A.S. RTE. 719		CONTRACT NO.	74110	
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

**PROPOSED S.N. 026-2019**

PAVING SCHEDULE										
STA	TO	STA	DISTANCE	35101400 AGGREGATE BASE COURSE, TYPE B	35650300 BASE COURSE WIDENING 8"	35650450 BASE COURSE WIDENING REMOVAL	40600100 BITUMINOUS MATERIALS (PRIME COAT)	40701951 HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH) 13 1/2"	44000100 PAVEMENT REMOVAL	48101200 AGGREGATE SHOULDERS, TYPE B
			(FOOT)	(TON)	(SQ YD)	(SQ YD)	(GALLON)	(SQ YD)	(SQ YD)	(TON)
1033+05		1034+05	100	80			171	289		
1033+05		1033+15	10						26.6	
1033+95		1034+05	10						28.9	
1030+86		1036+25	539		263	263				
1030+87		1031+43	56							6.4
1031+72		1033+05	133							15.2
INCLUDED FROM ENTRANCE SCHEDULE				14			17			
<b>TOTALS</b>				<b>94</b>	<b>263</b>	<b>263</b>	<b>188</b>	<b>289</b>	<b>56</b>	<b>22</b>

NOTE: EARTHWORK FOR CONSTRUCTION OF HMA SHOULDERS IS INCLUDED IN THE EARTHWORK QUANTITIES.

EARTH EXCAVATION SCHEDULE						
STA	TO	STA	20200100 EARTH EXCAVATION [CUT]	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT [FILL]	EARTHWORK BALANCE (+) OR SHORTAGE (-)
			(CU YD)	(CU YD)	(CU YD)	(CU YD)
<b>STAGE 1</b>						
			75.5	56.6	63.5	-6.9
<b>STAGE 2</b>						
			38.1	28.6	4.1	24.5
<b>STAGE 3</b>						
			26.6	20.0	45.5	-25.6
<b>TOTAL</b>			<b>140.2</b>	<b>105.2</b>	<b>113.1</b>	<b>-8.0</b>
			20400800 FURNISHED EXCAVATION (CU YD)			-8.0

TEMPORARY CONCRETE BARRIER SCHEDULE							
STA.	TO	STA.	LOCATION	70400100 TEMPORARY CONCRETE BARRIER	70400200 RELOCATE TEMPORARY CONCRETE BARRIER	Z0030250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	Z0030350 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3
				(FOOT)	(FOOT)	(EACH)	(EACH)
1032+43		1032+82	STAGE 1	40			
1032+82		1034+55	STAGE 1	173			
1034+55		1034+77	STAGE 1	23			
1032+43			STAGE 1			1	
1034+77			STAGE 1			1	
1032+07		1032+82	STAGE 2		76		
1032+82		1034+30	STAGE 2		148		
1034+30		1035+00	STAGE 2		71		
1032+07			STAGE 2				1
1035+00			STAGE 2				1
NEW PLACEMENT FOR STAGE 2				59			
<b>TOTALS</b>				<b>295</b>	<b>295</b>	<b>2</b>	<b>2</b>
<b>USE</b>				<b>300</b>	<b>300</b>	<b>2</b>	<b>2</b>

EROSION CONTROL SCHEDULE				
LOCATION	STAGE	28000300 TEMPORARY DITCH CHECKS	28000400 PERIMETER EROSION BARRIER	28000500 INLET AND PIPE PROTECTION
		(EACH)	(FOOT)	(EACH)
LT STA. 1032+80 TO STA. 1033+30	1		50	
LT STA. 1033+80 TO STA. 1034+90	1		120	
LT STA. 1035+08 TO STA. 1036+25	1		120	
1031+09, 26' LT	1			1
1032+89, 25' LT	1			1
1034+31, 34' LT	1			1
1033+13, 41' RT	2	1		
1033+83, 31' RT	2			1
<b>TOTALS</b>		<b>1</b>	<b>290</b>	<b>4</b>

DRAINAGE SCHEDULE							
STA	OFFSET	LT / RT	54200640 PIPE CULVERTS, TYPE 1, CS/A CULVERT PIPE 15"	550A0160 STORM SEWERS, CLASS A, TYPE 1 36"	550A0360 STORM SEWERS, CLASS A, TYPE 2 15"	54215550 METAL END SECTIONS, 15"	60236200 INLETS, TYPE A, TYPE 8 GRATE
			(FOOT)	(FOOT)	(FOOT)	(EACH)	(EACH)
1032+80	27.00	LT					1
1033+10.0	10.00	LT			60		
1033+71		LT		8			
1033+78		RT	15				
1033+81.11	30.11	RT				1	
<b>TOTAL</b>			<b>15</b>	<b>8</b>	<b>60</b>	<b>1</b>	<b>1</b>

CULVERT REMOVAL SCHEDULE			
STA	OFFSET	LT / RT	50105220 PIPE CULVERT REMOVAL
			(FOOT)
IL 185			
1033+27	27	LT	19
<b>TOTAL</b>			<b>19</b>

SEWER ADJUSTMENT SCHEDULE				
STA	OFFSET	LT / RT	60255500 MANHOLES TO BE ADJUSTED	60260100 INLETS TO BE ADJUSTED
			(EACH)	(EACH)
IL 185				
1033+97	14	RT		1
1033+97	14	LT		1
1033+97	30	LT	1	
1034+30	20	LT	1	
1035+79	18	LT	1	
<b>TOTAL</b>			<b>3</b>	<b>2</b>



RIGHT OF WAY MARKER SCHEDULE						
STA	OFFSET	LT / RT	66600105	20025500		
			FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	FURNISHING AND INSTALLING PROPERTY MARKERS	(EACH)	(EACH)
<b>IL 185</b>						
1032+75.0	40.0'	LT	1			
1033+25.0	65.0'	LT	1			
1033+92.74	28.03'	RT			1	
1033+92.94	31.97'	LT			1	
1034+00.0	65.0'	LT	1			
1034+50.0	40.0'	LT	1			
<b>TOTAL</b>			<b>4</b>		<b>2</b>	

TEMP FENCE SCHEDULE				
STA	TO	STA	LT / RT	20101000
				TEMPORARY FENCE
				(TON)
1030+85		1033+54	LT	269
<b>TOTAL</b>				<b>269</b>
<b>USE</b>				<b>300</b>

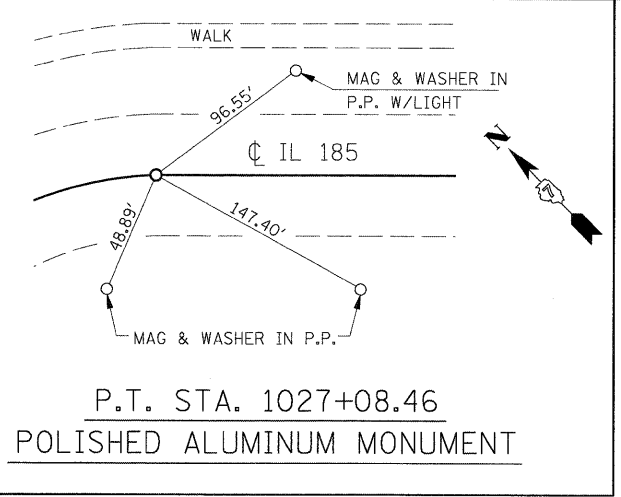
STRIPING SCHEDULE									
STA.	TO	STA.	TYPE	LOCATION	70301000	70300220	78001110	78100100	78300100
					WORK ZONE PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING - LINE 4"	PAINT PAVEMENT MARKING - LINE 4"	RAISED REFLECTIVE PAVEMENT MARKER	PAVEMENT MARKING REMOVAL
					(SQ FT)	(FOOT)	(FOOT)	(EACH)	(SQ FT)
<b>STAGE I</b>									
1030+12		1032+52	CTR / SKIP	CENTER					300
1035+05		1037+00	SKIP	CENTER					49
<b>STAGE III</b>									
1030+12		1030+77	EDGE	LT	22	66			
1030+77		1036+35	EDGE	LT	186	558			
1036+35		1037+00	EDGE	LT	22	66			
1030+12		1030+77	DBL CTR	RT	44	131			
1030+77		1036+68	DBL CTR	RT	394	1,181			
1036+68		1037+00	DBL CTR	RT	22	66			
1030+77		1036+35	EDGE	RT	47	140			
1036+35		1037+00	EDGE	RT	6	17			
<b>FINAL</b>									
1030+12		1033+05	CTR / SKIP	CENTER		367	367		
1033+05		1034+05	SKIP	CENTER		25	25	3	
1034+05		1037+00	SKIP	CENTER		74	74		
1030+12		1037+00	EDGE	LT		688	688		
1030+12		1037+00	EDGE	RT		688	688		
<b>TOTALS</b>					<b>743</b>	<b>4,067</b>	<b>1,842</b>	<b>3</b>	<b>349</b>

SIDEWALK SCHEDULE						
STA	TO	STA	LT / RT	DISTANCE	42400100	44000600
					PCC SIDEWALK 4 INCH	SIDEWALK REMOVAL
				(FOOT)	(SQ FT)	(SQ FT)
1032+80		1033+10	LT	30	135	117
1033+10		1033+39	LT	29	145	114
1032+90		1033+39	LT	49		
1033+39		1033+69	LT	30	150	
1033+69		1034+00	LT	31	155	121
1034+00		1034+30	LT	30	135	117
1033+39		1033+69	RT	30		
<b>TOTALS</b>					<b>720</b>	<b>469</b>

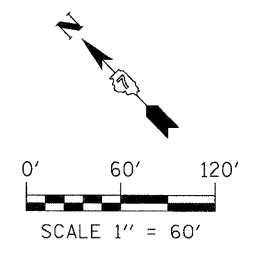
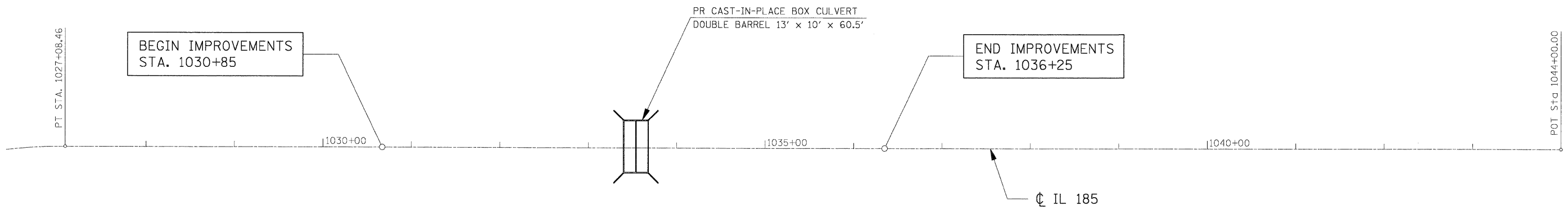
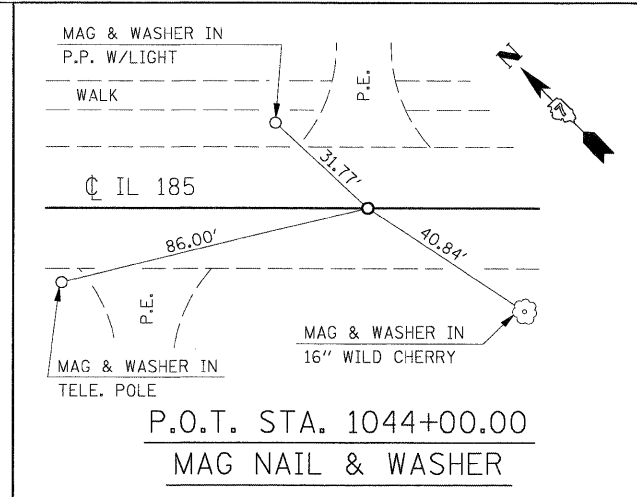
AGG SURFACE SCHEDULE					
STA	TO	STA	LT / RT	CUBIC YARD	40200800
					AGGREGATE SURFACE COURSE, TYPE B
					(TON)
1032+90		1033+39	LT	7.5	16
1033+39		1033+69	LT	5.6	12
1033+39		1033+69	RT	6.9	15
<b>TOTALS</b>					<b>43</b>

SEEDING SCHEDULE						
STATION TO STATION	MEASURED IN CAD	ADJ. FOR SLOPE	AREA	25001000	28000250	
				SEEDING, CLASS 2 (SPECIAL)	TEMPORARY EROSION CONTROL SEEDING	
			(SQ FT)	(ACRE)	(POUND)	
1030+87	1033+40	2,266	122	2,388	0.06	6
1032+60	1033+40	1,167	63	1,230	0.03	3
1033+68	1036+25	2,664	144	2,808	0.07	7
1033+68	1034+05	480	26	506	0.02	2
<b>TOTALS</b>					<b>0.18</b>	<b>18</b>
<b>USE</b>					<b>0.2</b>	<b>20</b>

CURB AND GUTTER							
STA.	TO	STA.	LOCATION	44000500	44002500	60600095	60605000
				COMBINATION CURB & GUTTER REMOVAL	GUTTER OUTLET REMOVAL	CLASS SI CONCRETE (OUTLET)	COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
				(FOOT)	(EACH)	(CU YD)	(FOOT)
1032+89		1033+29	LT		1		
1033+29		1036+25	LT	297			
1032+89		1033+29	RT		1		
1033+29		1034+05	RT	77			
1033+29		1036+25	LT				297
1032+89		1033+29	LT			3	
1033+29		1034+05	RT				77
1032+89		1033+29	RT			3	
<b>TOTALS</b>				<b>374</b>	<b>2</b>	<b>6</b>	<b>374</b>



BENCHMARK 101  
CHISELED SQUARE ON NORTHWEST CORNER  
OF BRIDGE ON SOUTHWEST CORNER OF HEADWALL  
STA. 1033+38, 19.4' LT., EL 572.53

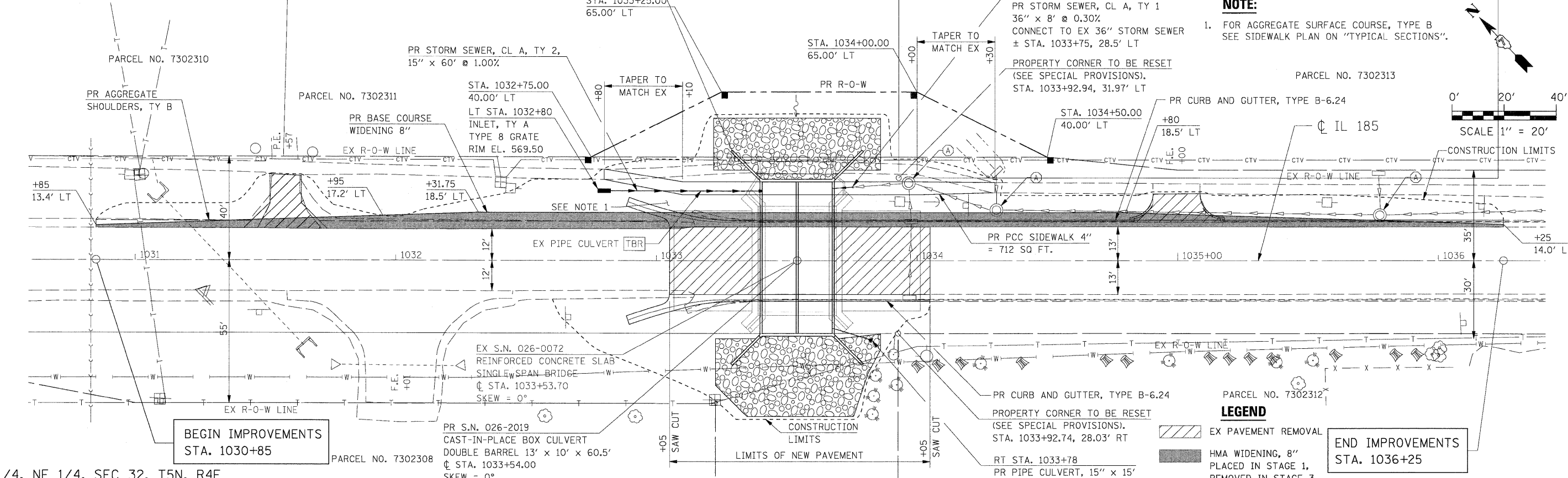


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	PLOT SCALE = 60.0000' / IN.	DRAWN -	REVISED -			• 114B-1(1) & 114B-1(2)	FAYETTE	54	35	
	PLOT DATE = 9/29/2009	CHECKED -	REVISED -			• F.A.P. RTE. 750, F.A.S. RTE. 719	CONTRACT NO. 74110			
		DATE -	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
SCALE: _____						SHEET NO. _____	OF _____	SHEETS _____	STA. _____	TO STA. _____

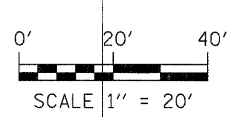
PROPOSED S.N. 026-2019

NW 1/4, NE 1/4, SEC 32, T5N, R4E

PARCEL NO. 7302310



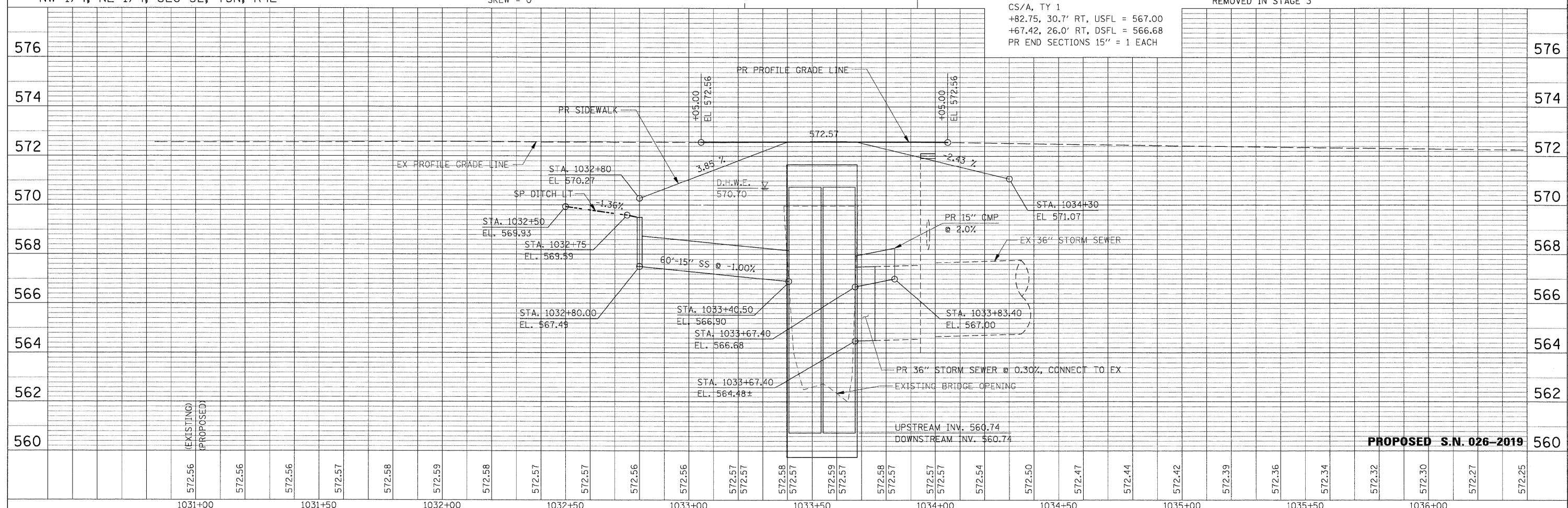
**NOTE:**  
1. FOR AGGREGATE SURFACE COURSE, TYPE B SEE SIDEWALK PLAN ON "TYPICAL SECTIONS".



**LEGEND**  
 EX PAVEMENT REMOVAL  
 HMA WIDENING, 8\"/>

BEGIN IMPROVEMENTS  
STA. 1030+85

END IMPROVEMENTS  
STA. 1036+25



PLAN

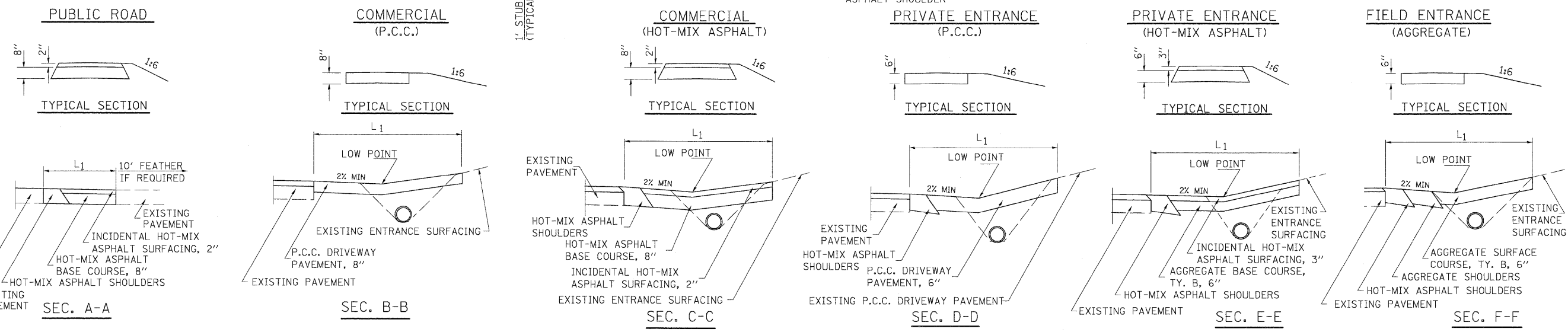
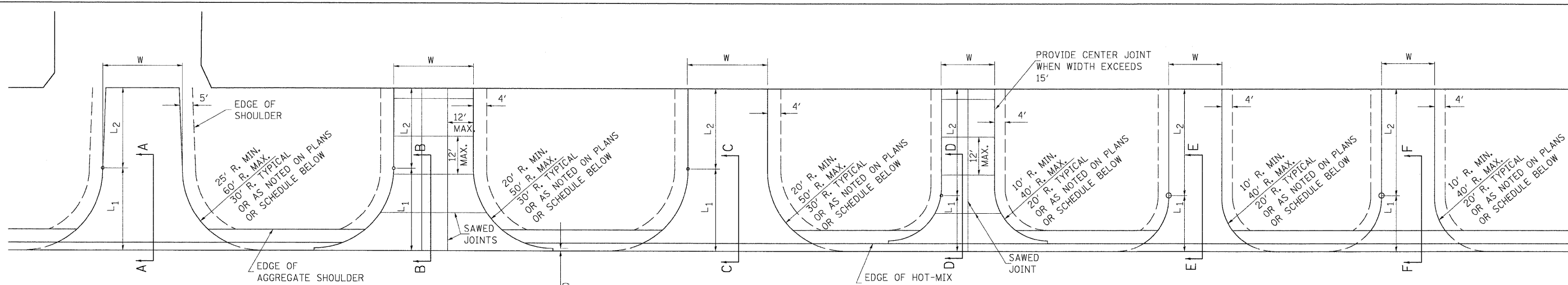
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PROFILE

DATE	
BY	
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CHECKED	
NO. OF DAYS CHECKED	
STRUCTURE NOTATIONS CHRD	

FILE NAME =	USER NAME = IE Consultants	DESIGNED -	REVISED -	<p align="center"><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p>	<p align="center"><b>PLAN AND PROFILE</b> <b>STA. 1030 + 67 TO STA. 1036 + 35</b></p>	F.A.R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Gr:\S28026-6\Cadd Sheets\0774111-shd-PlanPr-fldgn	DRAWN -	REVISED -	114B-1(1) & 114B-1(2)			FAYETTE	54	36		
PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -	F.A.P. RTE. 750, F.A.S. RTE. 719			CONTRACT NO. 74110				
PLOT DATE = 9/29/2009	DATE -	REVISED -	FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT			





ENTRANCE SCHEDULE

TYPE	SIDE / STATION	WIDTH	LENGTH		RADIUS	MATERIALS					
			L <sub>1</sub>	L <sub>2</sub>		35101400 AGGREGATE BASE, COURSE, TY. B TON	40201000 AGGREGATE FOR TEMPORARY ACCESS TON	40600100 BITUMINOUS MATERIALS (PRIME COAT) GALLON	40800050 INCIDENTAL HOT-MIX ASPHALT SURFACING TON	42300200 P.C.C. DRIVEWAY PAVEMENT SQ. YD.	44000200 DRIVEWAY PAVEMENT REMOVAL SQ. YD.
PE	LT STA. 1031+57	12	10	11		14	6	17	59	34	
FE	LT STA. 1035+00	18	13		10	5			27	28	
TOTALS						14	11	17	59	27	62

NOTES: QUANTITIES FOR PRIME COAT AND AGGREGATE BASE COURSE ARE INCLUDED IN PAVING SCHEDULE.

NOTES

L<sub>1</sub> = DISTANCE FROM EDGE OF PAVEMENT TO RADIUS POINT OR MAXIMUM DISTANCE OF 30'.  
 L<sub>2</sub> = DISTANCE FROM RADIUS POINT OR MAXIMUM DISTANCE OF 30' FROM EDGE OF PAVEMENT TO R.O.W. LINE  
 MATERIAL USED TO CONSTRUCT L<sub>2</sub> LENGTH SHALL BE THE SAME TYPE OF MATERIAL AS THE EXISTING ENTRANCE

THE THICKNESS OF THE HOT-MIX ASPHALT SHOULDERS THROUGH COMMERCIAL ENTRANCES (HOT-MIX ASPHALT) AND PUBLIC ROADS SHALL BE 10". THE COST OF THE EXTRA THICKNESS SHALL BE INCLUDED WITH THE HOT-MIX ASPHALT SHOULDERS PAY ITEM.

THE COST OF THE BITUMINOUS MATERIALS AND AGGREGATE (PRIME COAT) FOR ENTRANCES AND PUBLIC ROAD APPROACHES SHALL BE INCLUDED IN THE PAY ITEM INCIDENTAL HOT-MIX ASPHALT SURFACING.

HOT-MIX ASPHALT SHOULDERS SHALL NOT BE CONSTRUCTED THROUGH PCC ENTRANCE OR PUBLIC ROAD APPROACH.

FE=FIELD ENTRANCE PRA - PUBLIC ROAD APPROACH  
 PE=PRIVATE ENTRANCE MBT - MAILBOX TURNOUT  
 CE=COMMERCIAL ENTRANCE

**SEQUENCE OF CONSTRUCTION:**

**STAGE 1 TRAFFIC:**

SET UP TEMPORARY TRAFFIC CONTROL UTILIZING THESE PLANS IN CONJUNCTION WITH STANDARD 701321.

SIDEWALK SHALL REMAIN CLOSED FOR THE DURATION OF THIS STAGE.

INSTALL TEMPORARY TRAFFIC SIGNALS AND LOOP DETECTORS AT LOCATIONS SHOWN ON THESE PLANS AND STANDARD 701321.

PLACE TEMPORARY CONCRETE BARRIER AND PAVEMENT MARKING IN ACCORDANCE WITH THESE PLANS AND STANDARD 701321.

REMOVE ANY CONFLICTING PAVEMENT MARKINGS.

CHANNEL ALL TRAFFIC TO SOUTH SIDE OF STRUCTURE.

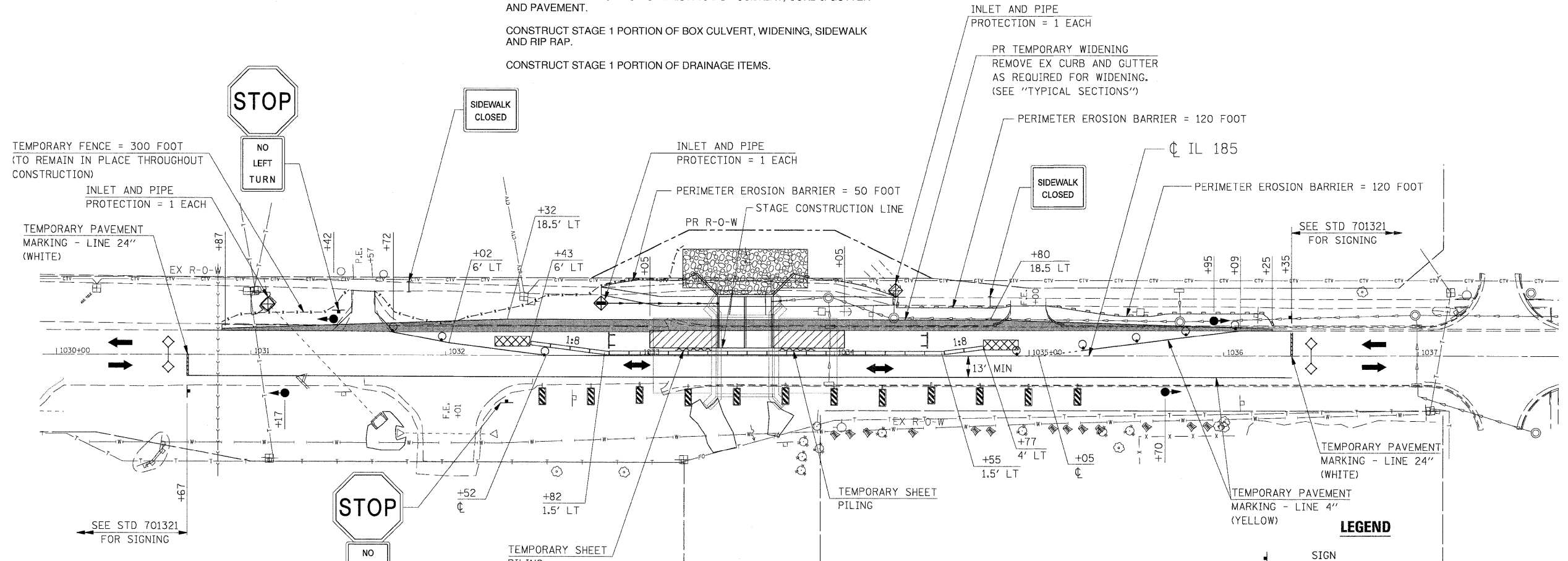
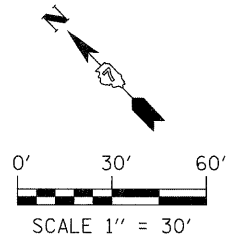
**STAGE 1 CONSTRUCTION:**

INSTALL TEMPORARY SHEET PILING PRIOR TO ANY EXCAVATION.

REMOVE STAGE 1 PORTION OF EXISTING BOX CULVERT, CURB & GUTTER AND PAVEMENT.

CONSTRUCT STAGE 1 PORTION OF BOX CULVERT, WIDENING, SIDEWALK AND RIP RAP.

CONSTRUCT STAGE 1 PORTION OF DRAINAGE ITEMS.

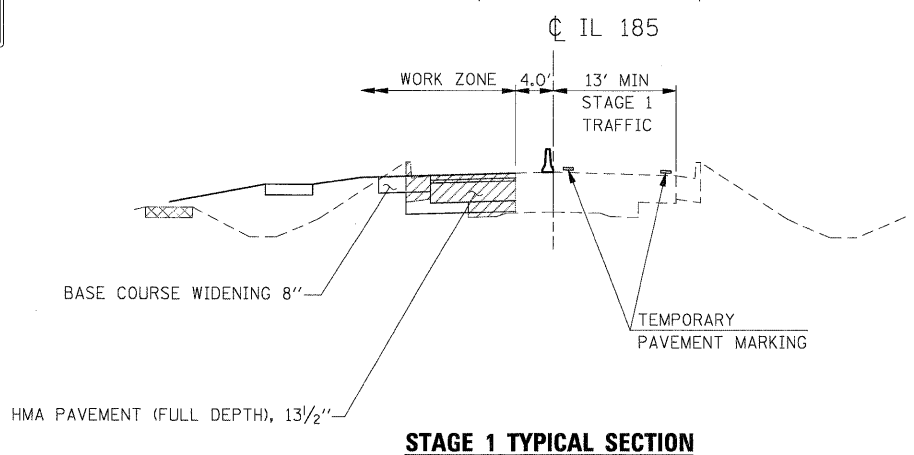


**LEGEND**

	SIGN
	DRUM WITH STEADY BURNING LIGHT (BI-DIRECTIONAL)
	TYPE II BARRICADE
	TRAFFIC SIGNAL
	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATOR, TEMPORARY
	PAVEMENT REMOVAL
	DIRECTION OF TRAFFIC
	TYPE III BARRICADE
	LOOP DETECTORS
	DOUBLE VERTICAL PANEL

**GENERAL STAGING NOTES:**

1. CONTRACTOR SHALL MAINTAIN ACCESS TO ENTRANCES AT ALL TIMES. NO SIGNALS WILL BE REQUIRED.
2. ACCESS MUST BE PROVIDED TO ALL F.E.'s. NO SIGNALS WILL BE REQUIRED.
3. THIS TRAFFIC CONTROL PLAN SHALL BE USED IN CONJUNCTION WITH STANDARD 701321 AND AS DIRECTED BY THE ENGINEER.



**STAGE 1 TYPICAL SECTION**

FILE NAME =	USER NAME = IE Consultants	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC - STAGE 1</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
GA\S20026-6\Add Sheets\0774111-sht-Stage1.dgn	DRAWN -	REVISED -	• 114B-1(1) & 114B-1(2)			FAYETTE	54	38		
PLOT SCALE = 30,0000' / IN.	CHECKED -	REVISED -	• F.A.P. RTE. 750, F.A.S. RTE. 719			CONTRACT NO. 74110				
PLOT DATE = 9/29/2009	DATE -	REVISED -	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT							
SCALE: SHEET NO. OF SHEETS STA. TO STA.										

**SEQUENCE OF CONSTRUCTION:**

**STAGE 2 TRAFFIC:**

SET UP TEMPORARY TRAFFIC CONTROL UTILIZING THESE PLANS IN CONJUNCTION WITH STANDARD 701321.

SIDEWALK SHALL REMAIN CLOSED FOR THE DURATION OF THIS STAGE.

RELOCATE TEMPORARY CONCRETE BARRIER AND PLACE PAVEMENT MARKING IN ACCORDANCE WITH THESE PLANS AND STANDARD 701321.

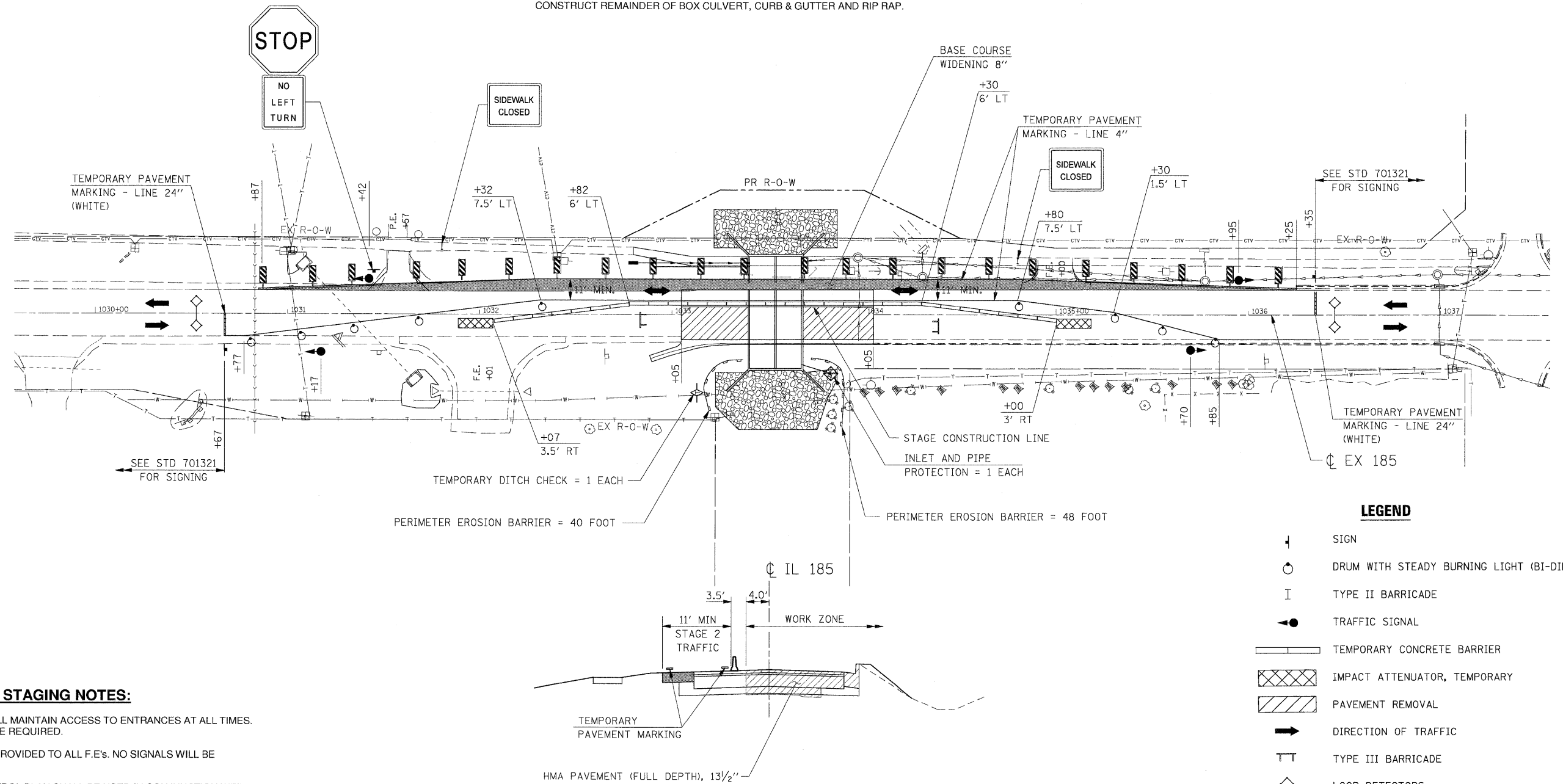
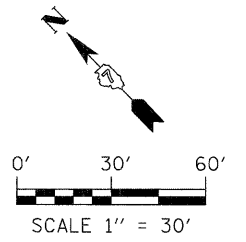
REMOVE ANY CONFLICTING PAVEMENT MARKINGS.

CHANNEL ALL TRAFFIC TO NORTH SIDE OF STRUCTURE.

**STAGE 2 CONSTRUCTION:**

REMOVE STAGE 2 PORTION OF EXISTING BOX CULVERT, CURB & GUTTER AND PAVEMENT.

CONSTRUCT REMAINDER OF BOX CULVERT, CURB & GUTTER AND RIP RAP.



**GENERAL STAGING NOTES:**

1. CONTRACTOR SHALL MAINTAIN ACCESS TO ENTRANCES AT ALL TIMES. NO SIGNALS WILL BE REQUIRED.
2. ACCESS MUST BE PROVIDED TO ALL F.E's. NO SIGNALS WILL BE REQUIRED.
3. THIS TRAFFIC CONTROL PLAN SHALL BE USED IN CONJUNCTION WITH STANDARD 701321 AND AS DIRECTED BY THE ENGINEER.

**STAGE 2 TYPICAL SECTION**

**LEGEND**

- ⊥ SIGN
- DRUM WITH STEADY BURNING LIGHT (BI-DIRECTIONAL)
- I TYPE II BARRICADE
- TRAFFIC SIGNAL
- ▬ TEMPORARY CONCRETE BARRIER
- ▨ IMPACT ATTENUATOR, TEMPORARY
- ▩ PAVEMENT REMOVAL
- ➔ DIRECTION OF TRAFFIC
- TT TYPE III BARRICADE
- ◇ LOOP DETECTORS
- ▤ DOUBLE VERTICAL PANEL

FILE NAME =	USER NAME = IE Consultants	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC - STAGE 2</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
G:\S20026-6\Cadd Sheets\0774111-sht-Stage01-2.dgn	DRAWN -	REVISED -	• 114B-1(1) & 114B-1(2)			FAYETTE	54	39		
PLOT SCALE = 30,0000' / IN.	CHECKED -	REVISED -	• F.A.P. RTE. 750, F.A.S. RTE. 719			CONTRACT NO. 74110				
PLOT DATE = 9/29/2009	DATE -	REVISED -	FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT			
SCALE:						SHEET NO.	OF SHEETS	STA.	TO STA.	

**PROPOSED S.N. 026-2019**

**SEQUENCE OF CONSTRUCTION:**

**STAGE 3 TRAFFIC:**

REMOVE TEMPORARY TRAFFIC SIGNALS AND TEMPORARY CONCRETE BARRIER.

OPEN TWO LANES OF TRAFFIC AND SHIFT SOUTH AS SHOWN.

SET UP TEMPORARY TRAFFIC CONTROL USING THESE PLANS IN CONJUNCTION WITH STANDARD 701326.

**STAGE 3 CONSTRUCTION:**

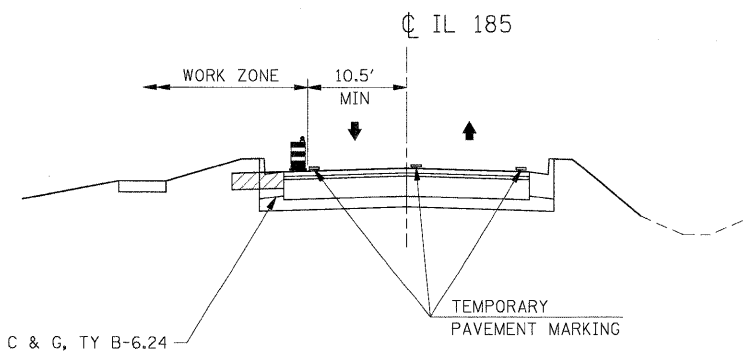
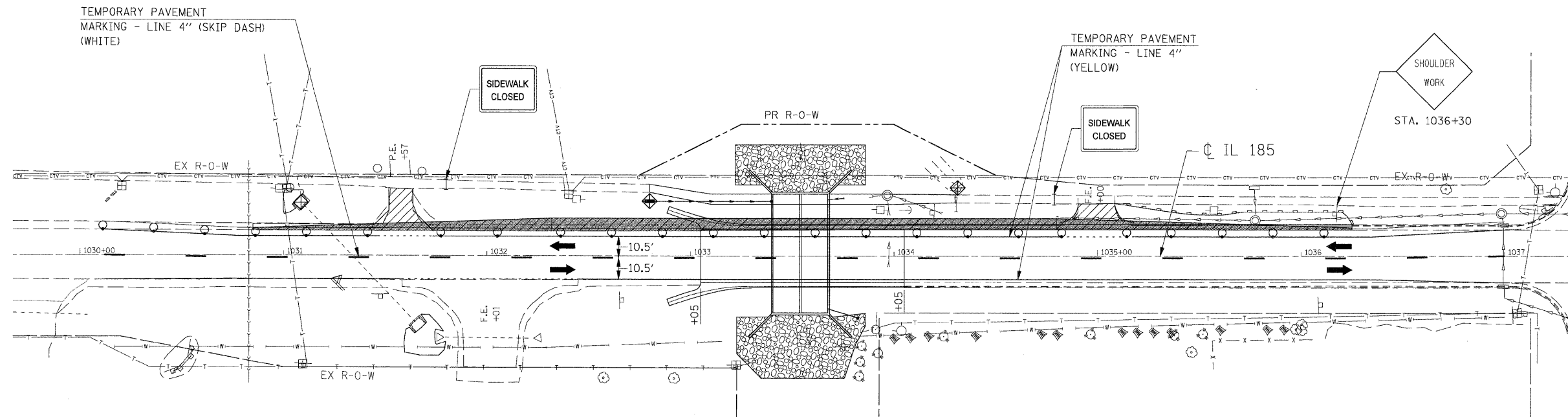
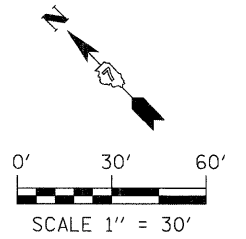
REMOVE TEMPORARY WIDENING, CONSTRUCT CURB & GUTTER AND ENTRANCES.

**POST-STAGE TRAFFIC:**

SHIFT TRAFFIC AS NEEDED TO CONSTRUCT FINAL PAVEMENT UTILIZING STANDARD 701306.

**POST-STAGE CONSTRUCTION:**

FOLLOWING COMPLETION OF STAGE 3, CONSTRUCT FINAL ROADWAY AND SHOULDER SURFACE, AGGREGATE SHOULDERS, FINAL STRIPING, GRADING AND SEEDING.



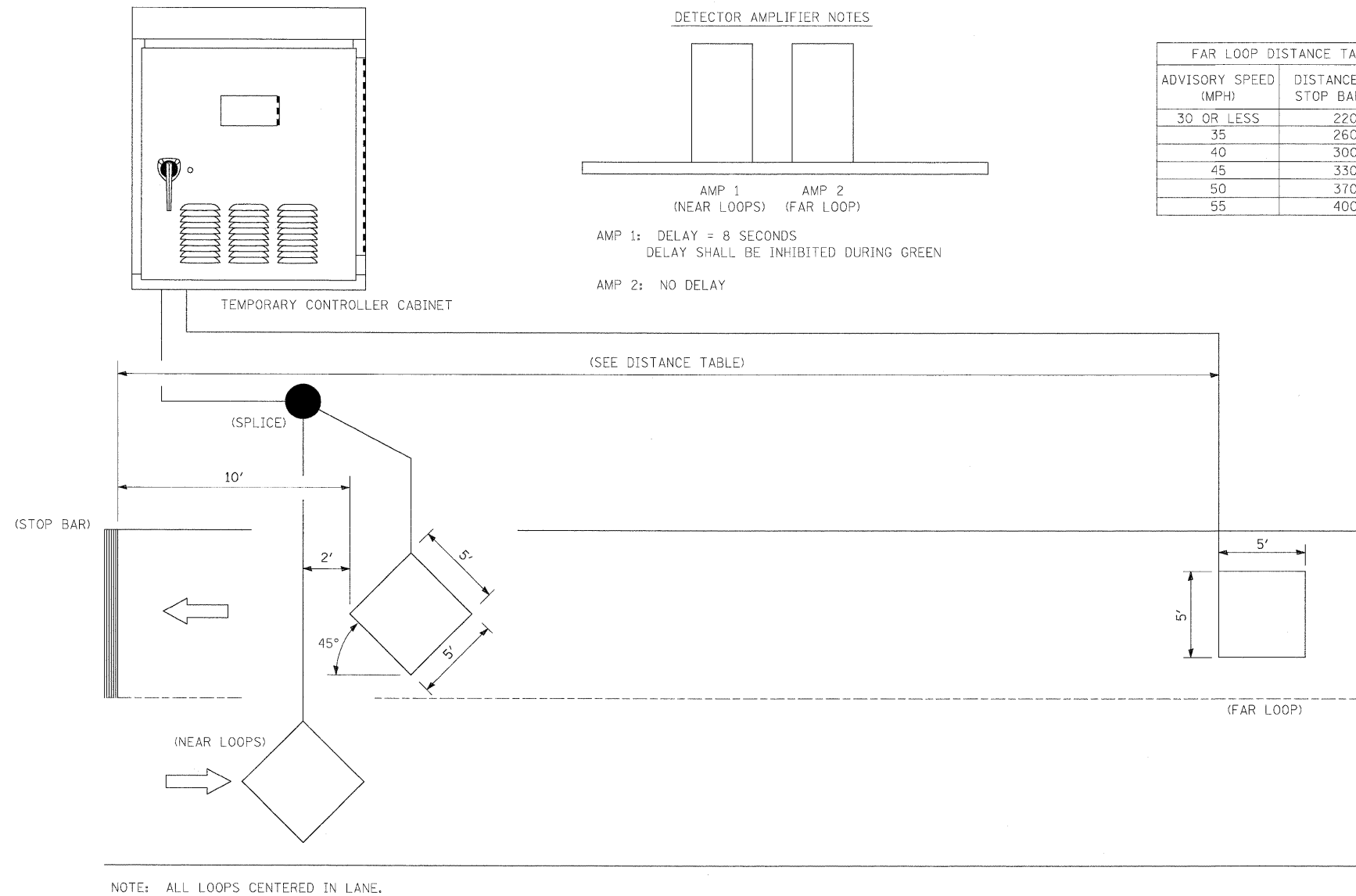
**LEGEND**

- ↑ SIGN
- DRUM WITH STEADY BURNING LIGHT (BI-DIRECTIONAL)
- I TYPE II BARRICADE
- TRAFFIC SIGNAL
- ▬ TEMPORARY CONCRETE BARRIER
- ▨ IMPACT ATTENUATOR, TEMPORARY
- ▩ PAVEMENT REMOVAL
- ➔ DIRECTION OF TRAFFIC
- TT TYPE III BARRICADE
- ◇ LOOP DETECTORS
- ▨ DOUBLE VERTICAL PANEL

**GENERAL STAGING NOTES:**

1. ACCESS MUST BE PROVIDED TO ALL F.E.'s. NO SIGNALS WILL BE REQUIRED.
2. THIS TRAFFIC CONTROL PLAN SHALL BE USED IN CONJUNCTION WITH STANDARD 701326 AND AS DIRECTED BY THE ENGINEER.

FILE NAME =	USER NAME = IE Consultants	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC - STAGE 3</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
G:\508026-6\Cadd Sheets\0774111-sht-Stage01-3.dgn	DRAWN -	REVISED -	•			114B-1(1) & 114B-1(2)	FAYETTE	54	40	
PLOT SCALE = 30.0000' / IN.	CHECKED -	REVISED -	F.A.P. RTE. 750, F.A.S. RTE. 719			CONTRACT NO. 74110				
PLOT DATE = 9/29/2009	DATE -	REVISED -	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT							
SCALE:						SHEET NO.	OF	SHEETS	STA.	TO STA.



INDUCTION LOOP DETECTOR

FILE NAME =	USER NAME = IE Consultants	DESIGNED -	REVISED -
Gr\S26026-6\Cadd Sheets\0774111-sht-Det1a01.dgn		DRAWN -	REVISED -
PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -
PLOT DATE = 9/29/2009		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY BRIDGE TRAFFIC SIGNAL  
LOOP PLACEMENT DETAIL SHEET**

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

**PROPOSED S.N. 026-2019**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	114B-1(1) & 114B-1(2)	FAYETTE	54	41
* F.A.P. RTE. 750, F.A.S. RTE. 719		CONTRACT NO. 74110		
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

B.M. 101- Chiseled "□" on N.W. corner of Bridge on S.W. corner of headwall Sta. 1033+38: 19.4' Lt.  
Elev. 572.532

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Existing Structure S.N. 026-0072 is a single span slab structure built in 1932 under Section 114B. The structure is 30' Bk to Bk of abutments with a 42'-2" roadway width and is constructed at a 0° skew. Both abutments are Closed abutments on spread footing. There is 4'-2" concrete rail on either side of the slab. In 2006 there was a 2.5" resurfacing with B-6.24 gutters added to the roadway. A pedestrian walkway structure is located approximately 15' North of the structure. Traffic shall be maintained using stage construction.

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

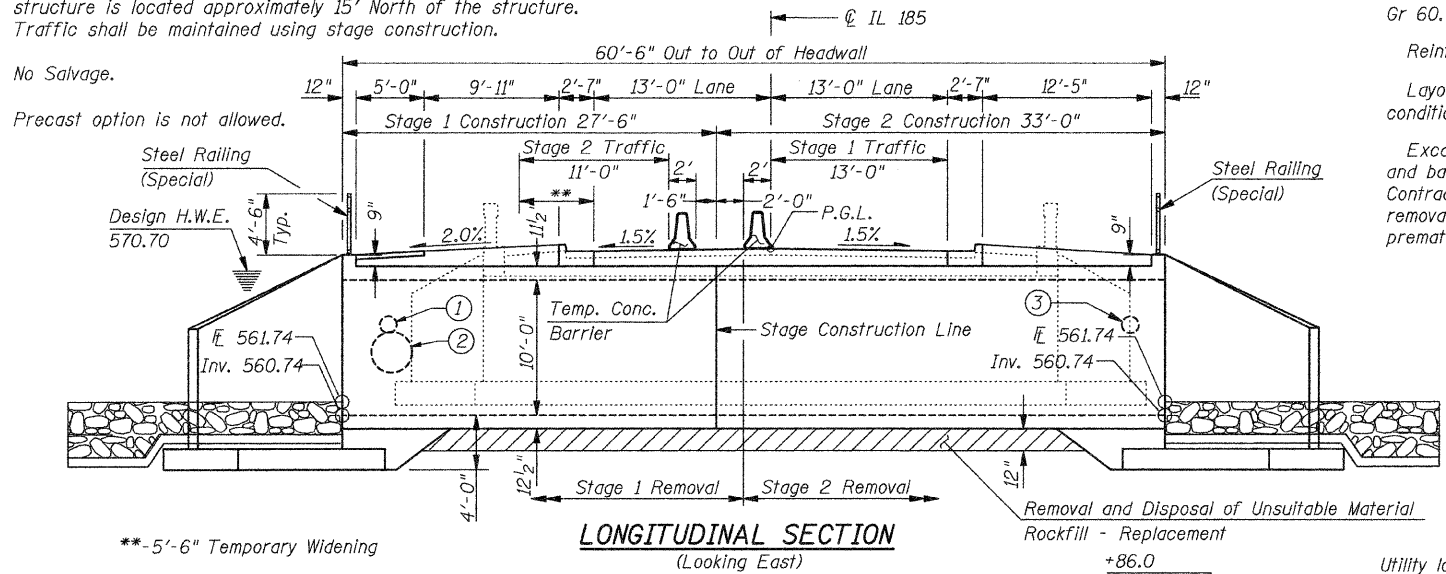
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.

WATERWAY INFORMATION

Drainage Area = 3.8 SQ MI Low Grade Elev. 571.83 @ Sta. 1039+08.46

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	10	747	161	202	569.5	0.1	0.1	569.6	569.6
Base	100	1375	172	234	570.7	0.9	0.5	571.6	571.2
Overtopping Pr.	100	1375	172	234	571.3	1.0	0.6	572.3	571.9
Max. Calc.	500	1839	172	234	572.0	0.8	0.7	572.8	572.7



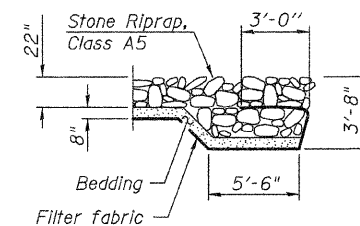
DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	556.74	556.74

STATION 1033+54.00  
BUILT 20 BY  
STATE OF ILLINOIS  
F.A.S. ROUTE 719 - SECTION 114B-1(2)  
LOADING HS-20  
STRUCTURE NO. 026-2019

NAME PLATE

See Std. 515001



SECTION A-A

PROFILE GRADE LINE

IL RTE 185

① Pr Storm Sewer, CL A, TY 2, 15" x 60" @ 1.00%. To pass thru Box Culvert wall @ Elev. 566.90

② Pr Storm Sewer, CL A, TY 1, 36" x 8" @ 0.30%. To connect to exist. Storm Sewer and pass through box culvert wall. @ Elev. 564.48±

③ Pr 15" Pipe culvert, 15"x15' CS/A, TY 1 To pass thru Box Culvert wall @ Elev. 566.68

APPROVED  
FOR STRUCTURAL ADEQUACY ONLY

Richard E. Anderson (TSO)  
ENGINEER OF BRIDGES AND STRUCTURES

INDEX OF SHEETS

- GENERAL PLAN & ELEVATION
- STAGE CONSTRUCTION DETAILS & TEMPORARY SHEET PILING
- STAGE CONSTRUCTION DETAILS
- STAGE 1 CULVERT DETAILS
- STAGE 2 CULVERT DETAILS
- STEEL RAILING DETAILS
- BAR SPLICER ASSEMBLY DETAILS
- TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
- SOIL BORINGS

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

LOADING HS-20-44

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

DESIGN STRESSES

FIELD UNITS

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

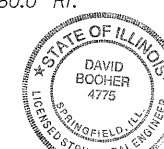
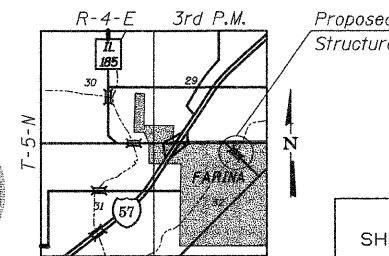
GENERAL PLAN

IL ROUTE 185 OVER STREAM  
F.A.S. RTE. 719 - SECTION 114B-1(2)

FAYETTE COUNTY

STA. 1033+54

S.N. 026-2019



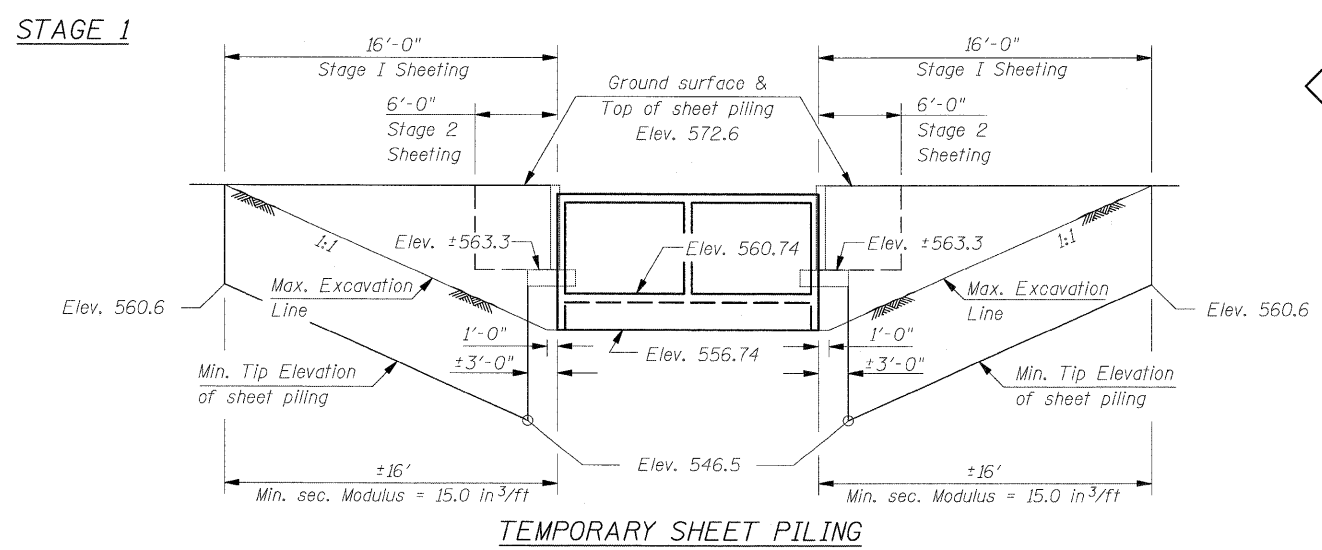
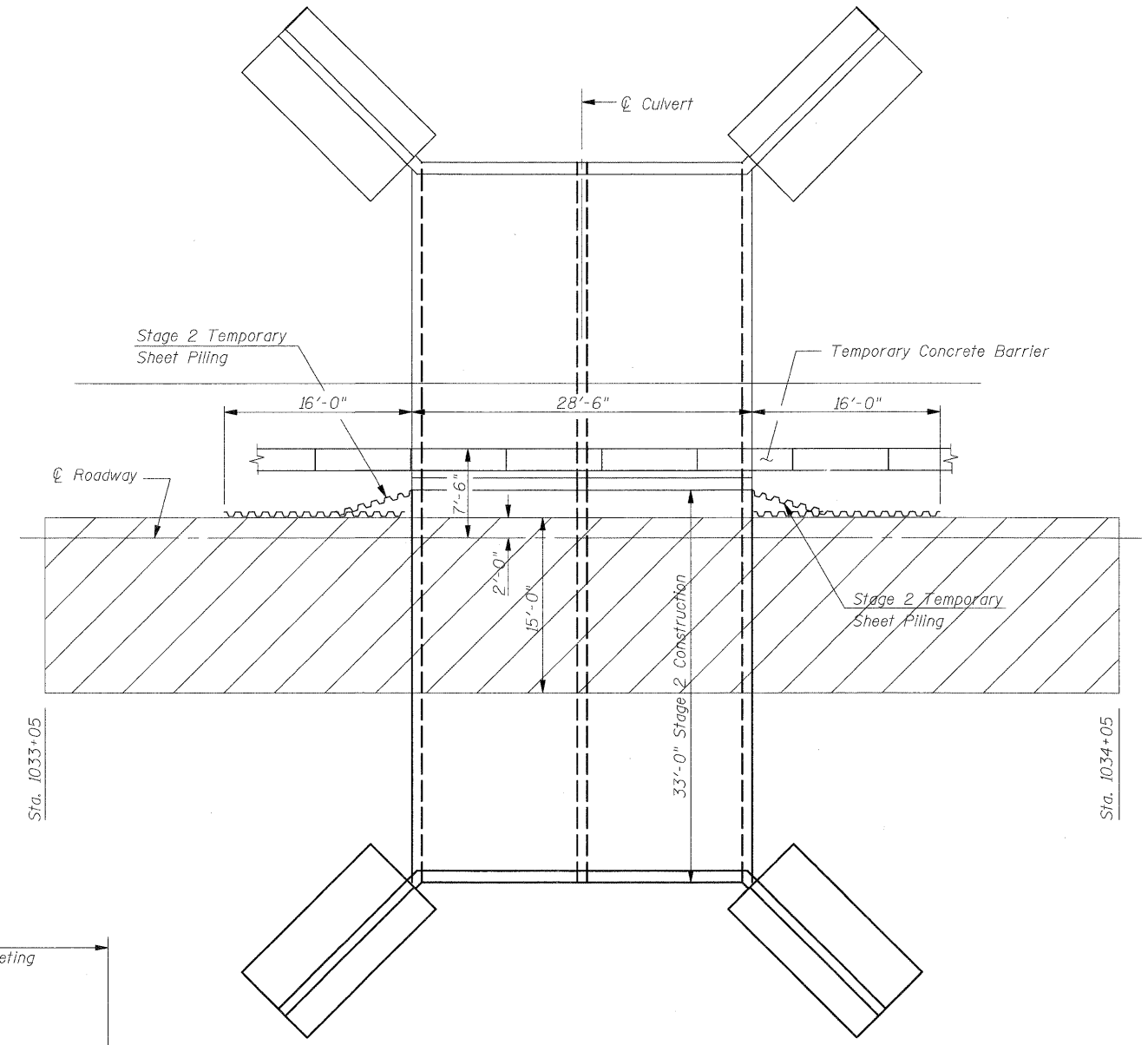
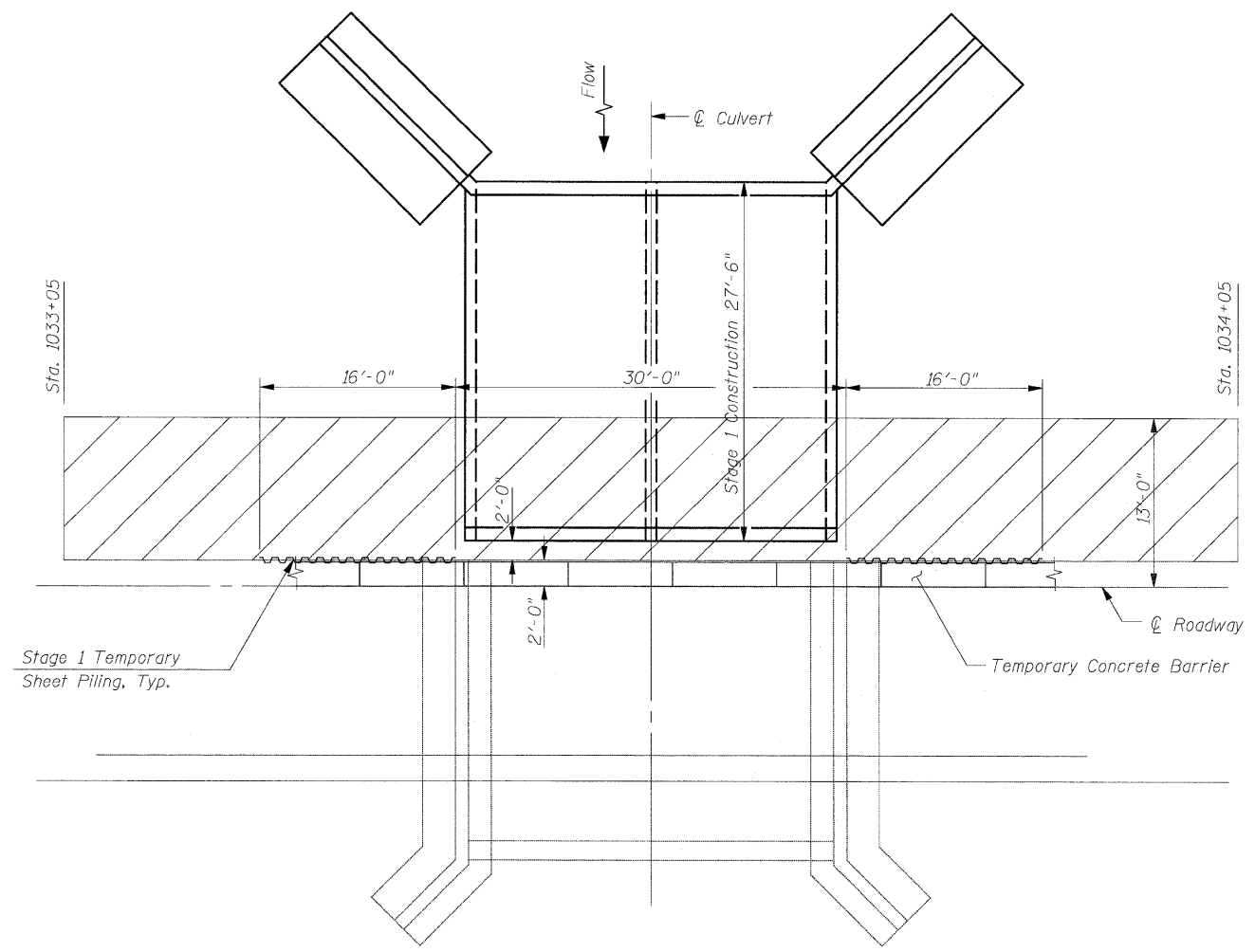
David Bocher, Illinois S.E. 081-004775  
Expires 11-30-2010

11-20-20

SHEET NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	*	114B-1(1) & 114B-1(2)	FAYETTE	54	42
OF 9 SHEETS	* F.A.P. RTE. 750, F.A.S. RTE. 719		CONTRACT NO. 74110		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



STAGE 2

**LEGEND**  
 - Pavement Removal

**STAGE CONSTRUCTION DETAILS &  
TEMPORARY SHEET PILING**  
S.N. 026-2019

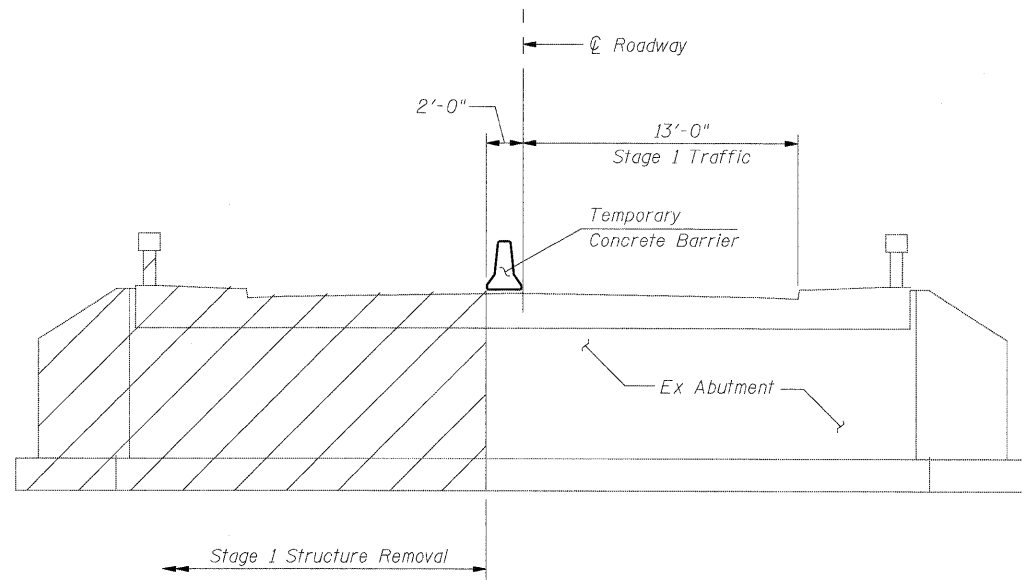
**Notes:**  
 If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.  
 The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

DESIGNED	SCD
CHECKED	DRB
DRAWN	THW
CHECKED	SCD

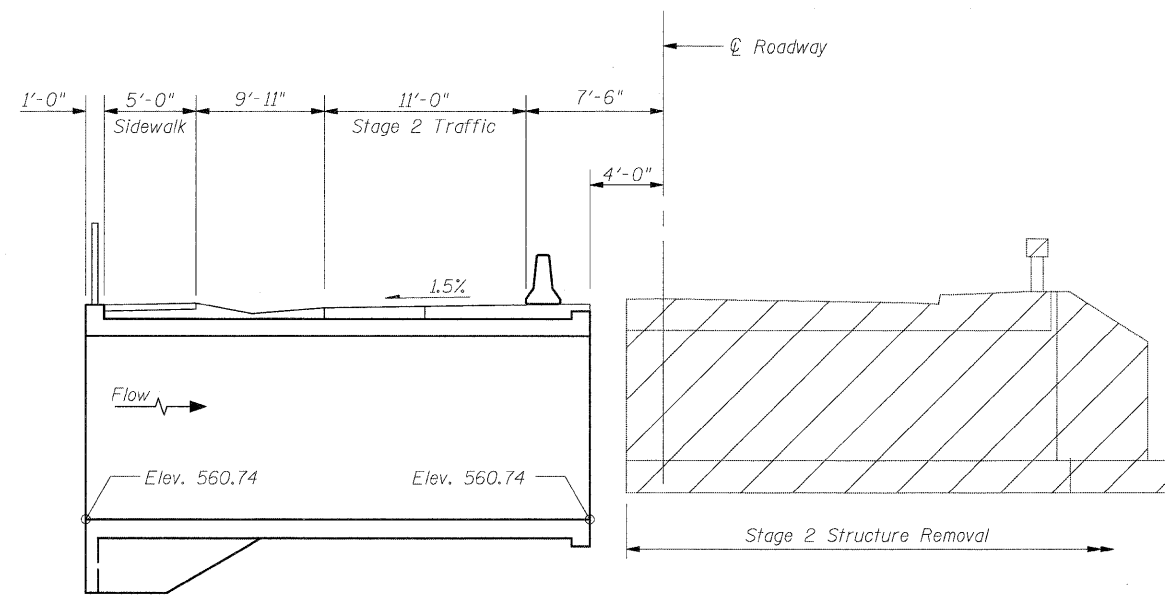
**ie** consultants  
 IE CONSULTANTS, INC  
 6420 SOUTH SIXTH STREET  
 SPRINGFIELD, ILLINOIS 62712  
 TEL: (217) 529-9027  
 FAX: (217) 529-4543  
 IESPRINGFIELD@IE-CONSULTANTS.COM  
 WWW.IE-CONSULTANTS.COM

SHEET NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	*	114B-1(1) & 114B-1(2)	FAYETTE	54	43
OF 9 SHEETS	* F.A.P. RTE. 750, F.A.S. RTE. 719		CONTRACT NO. 74110		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

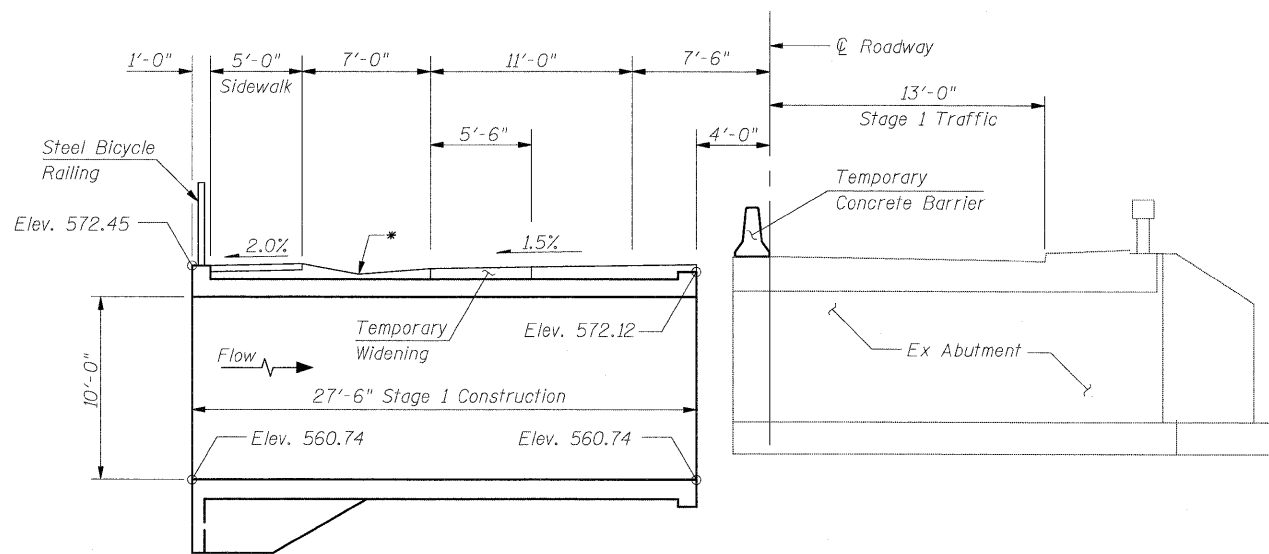
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



STAGE 1 REMOVAL

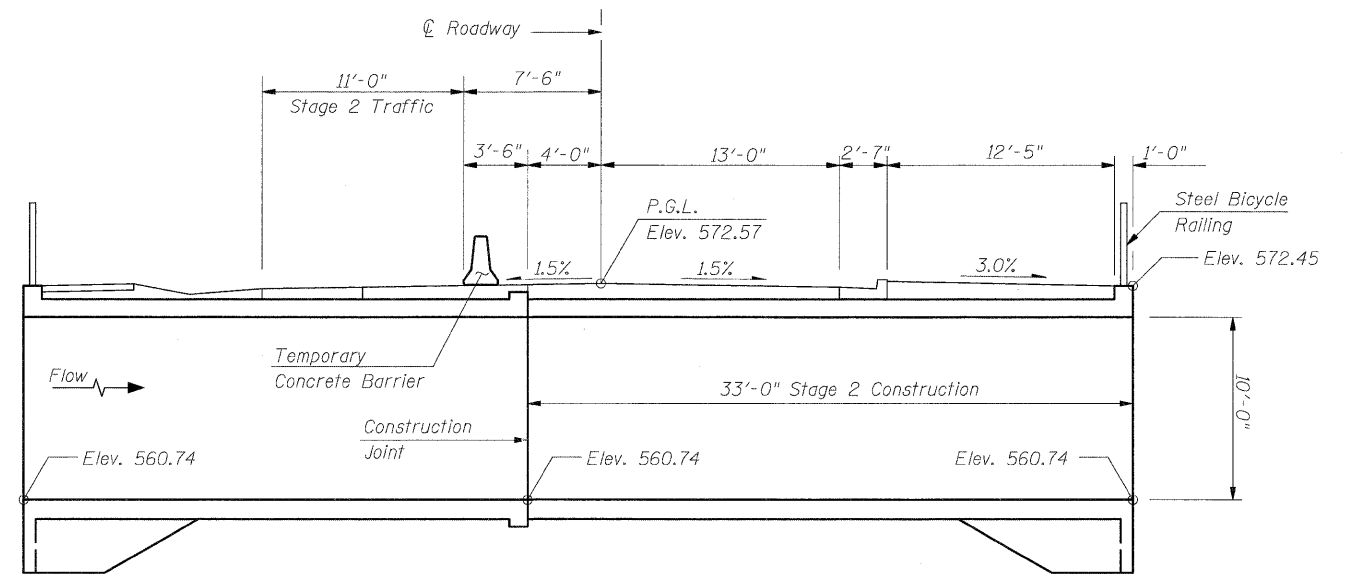


STAGE 2 REMOVAL



\* Slope for Temporary Drainage

STAGE 1 CONSTRUCTION



STAGE 2 CONSTRUCTION

STAGE CONSTRUCTION DETAILS  
S.N. 026-2019

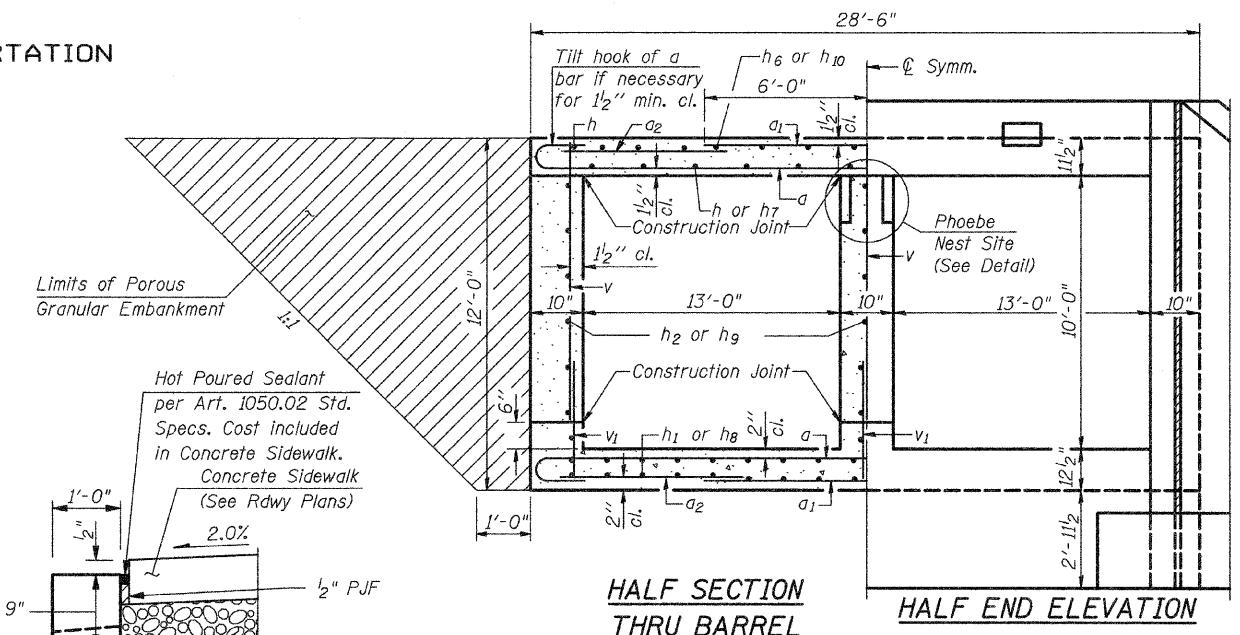
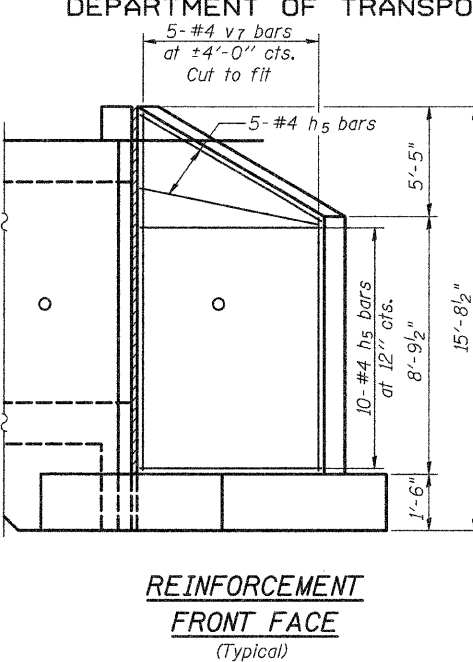
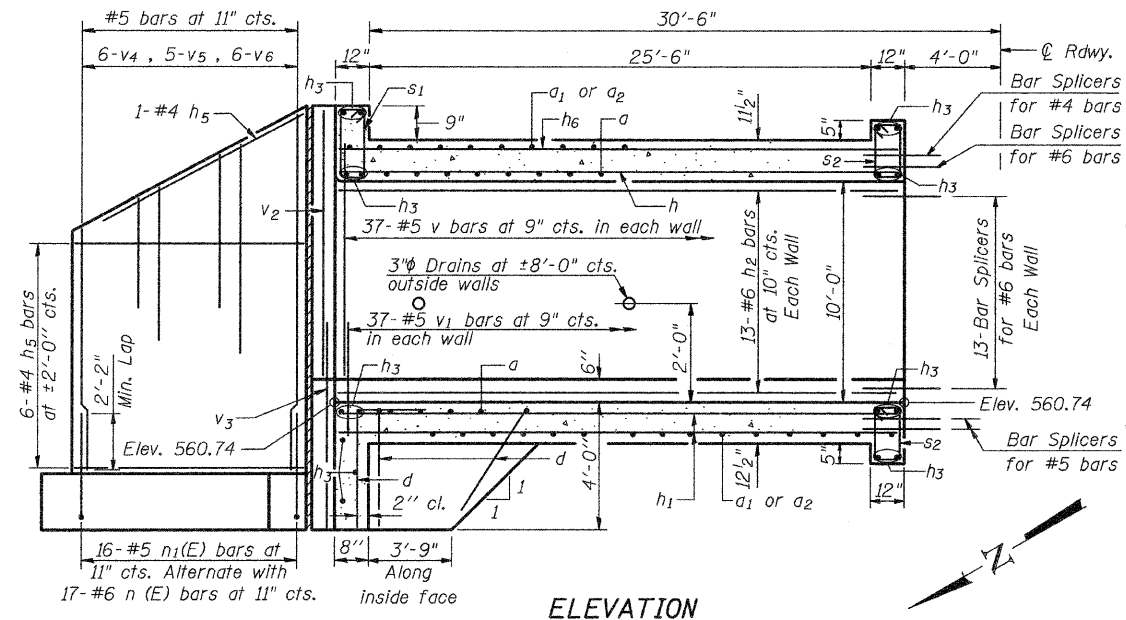
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CHECKED	DRB
DRAWN	THW
CHECKED	SCD



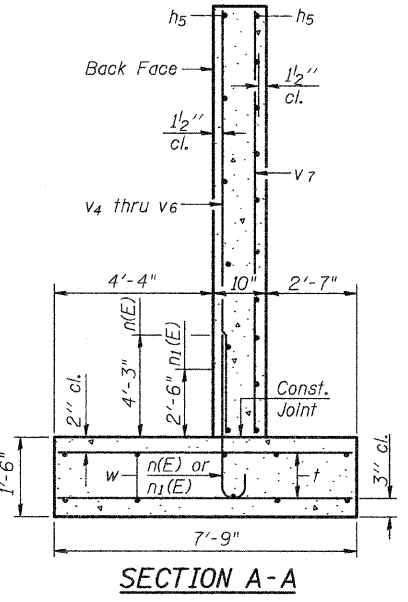
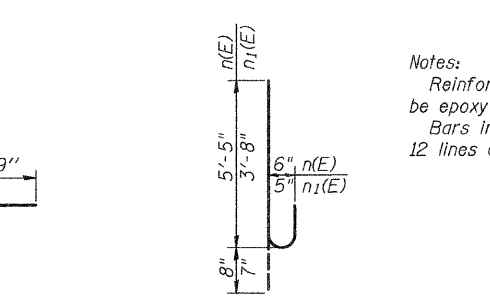
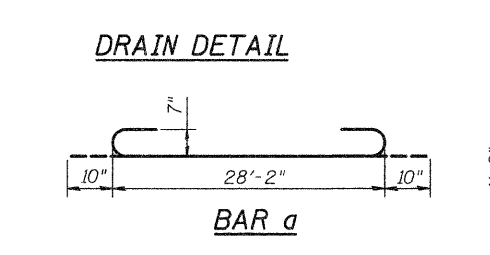
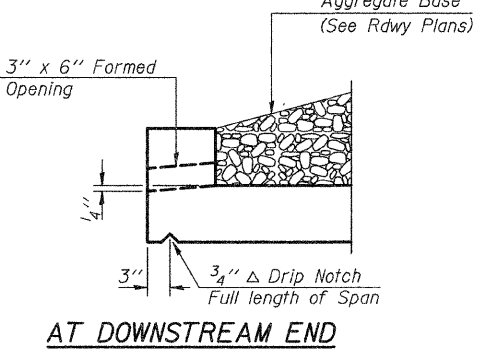
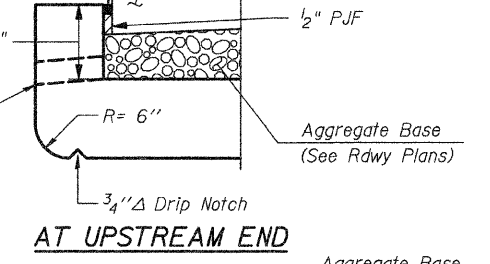
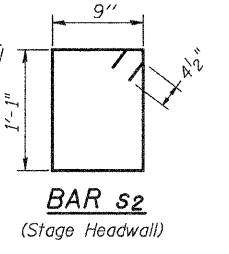
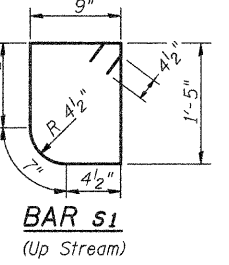
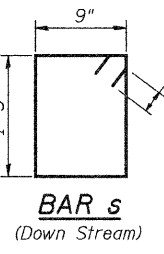
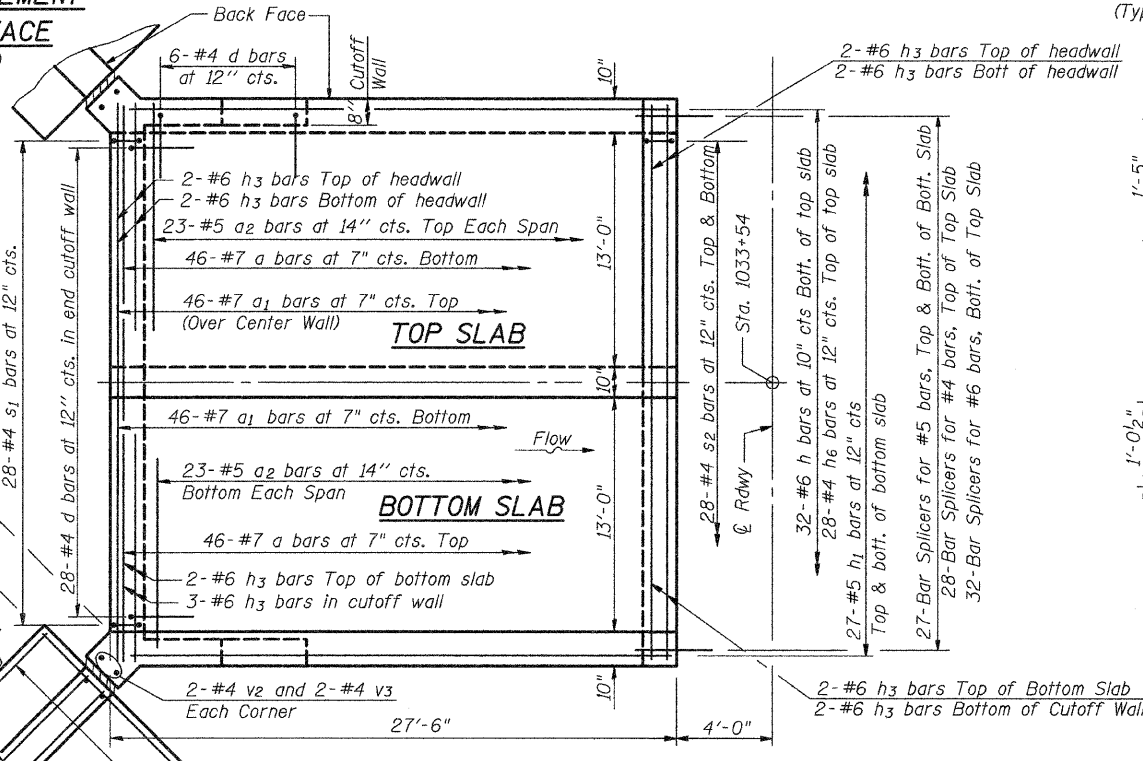
IE CONSULTANTS, INC  
6420 SOUTH SIXTH STREET  
SPRINGFIELD, ILLINOIS 62712  
TEL. (217) 529-8027  
FAX (217) 529-4543  
IESPRINGFIELD@IE-CONSULTANTS.COM  
WWW.IE-CONSULTANTS.COM

SHEET NO. 3 OF 9 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	114B-1(1) & 114B-1(2)	FAYETTE	54	44
* F.A.P. RTE. 750, F.A.S. RTE. 719		CONTRACT NO. 74110			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**REINFORCEMENT BACK FACE (Typical)**



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
a	204	#7	29'-10"	U	
a1	204	#7	12'-0"	U	
a2	204	#5	9'-7"	U	
d	80	#4	5'-6"	L	
h	32	#6	27'-2"	U	
h1	54	#5	27'-2"	U	
h2	39	#6	27'-2"	U	
h3	26	#6	28'-0"	U	
h5	88	#4	15'-0"	U	
h6	28	#4	27'-2"	U	
h7	32	#6	32'-8"	U	
h8	54	#5	32'-8"	U	
h9	39	#6	32'-8"	U	
h10	28	#4	32'-8"	U	
h11	24	#5	6'-0"	U	
n(E)	68	#6	6'-1"	C	
n1(E)	64	#5	4'-3"	C	
s	28	#4	5'-1"	U	
s1	28	#4	4'-11"	U	
s2	56	#4	4'-5"	U	
t	176	#4	7'-6"	U	
v	246	#5	10'-3"	U	
v1	246	#5	3'-0"	U	
v2	8	#4	10'-11"	U	
v3	8	#4	5'-8"	U	
v4	24	#5	8'-4"	U	
v5	20	#5	10'-0"	U	
v6	24	#5	11'-11"	U	
v7	20	#4	13'-11"	U	
w	40	#5	15'-0"	U	
Concrete Box Culverts				Cu. Yd.	240.7
Reinforcement Bars, Epoxy Coated				Pound	910
Reinforcement Bars				Pound	39,030
Bar Splicers				Each	153

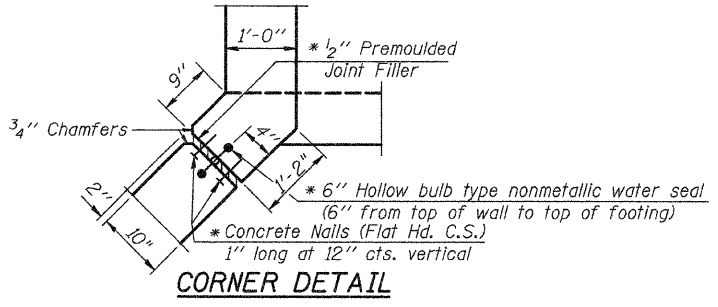
**STAGE 1 CULVERT DETAILS**  
**S.N. 026-2019**

Notes:  
Reinforcement bars designated (E) shall be epoxy coated.  
Bars indicated thus 12x4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

SHEET NO. 4 OF 9 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	114B-1(1) & 114B-1(2)	FAYETTE	54	45
	* F.A.P. RTE. 750, F.A.S. RTE. 719		CONTRACT NO. 74110		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

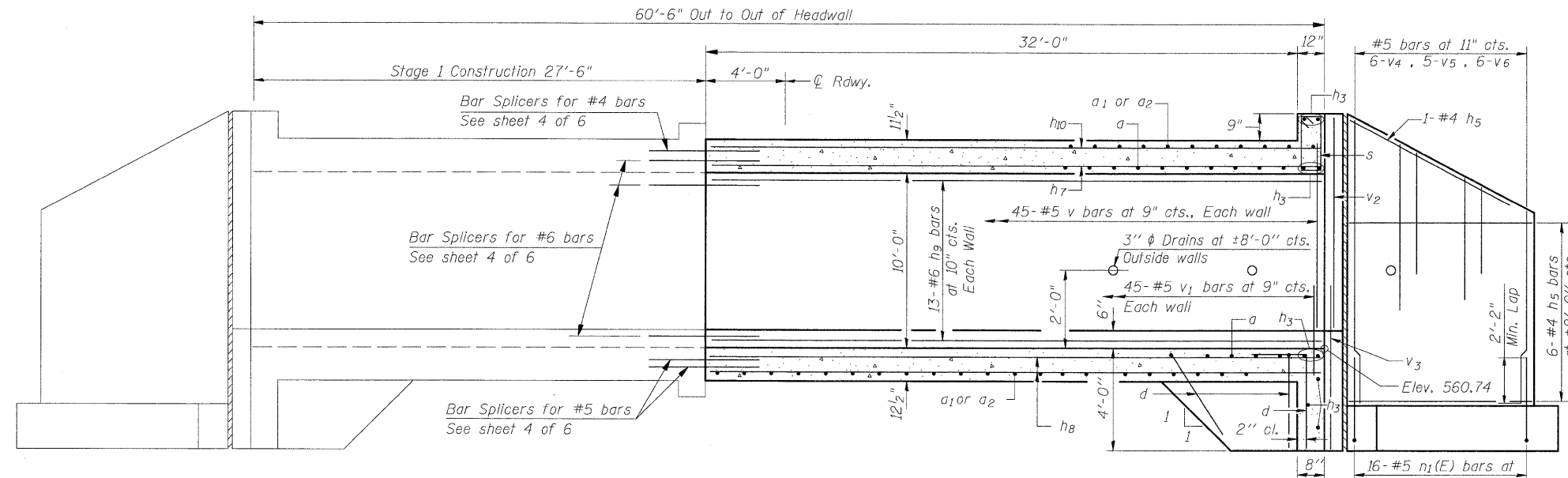
DESIGNED SCD  
CHECKED DRB  
DRAWN THW  
CHECKED SCD

**ie** CONSULTANTS, INC.  
6420 SOUTH SIXTH STREET  
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IESPRINGFIELD@IE-CONSULTANTS.COM  
WWW.IE-CONSULTANTS.COM



\* (Cost of all items shall be included in cost of Concrete Box Culverts)

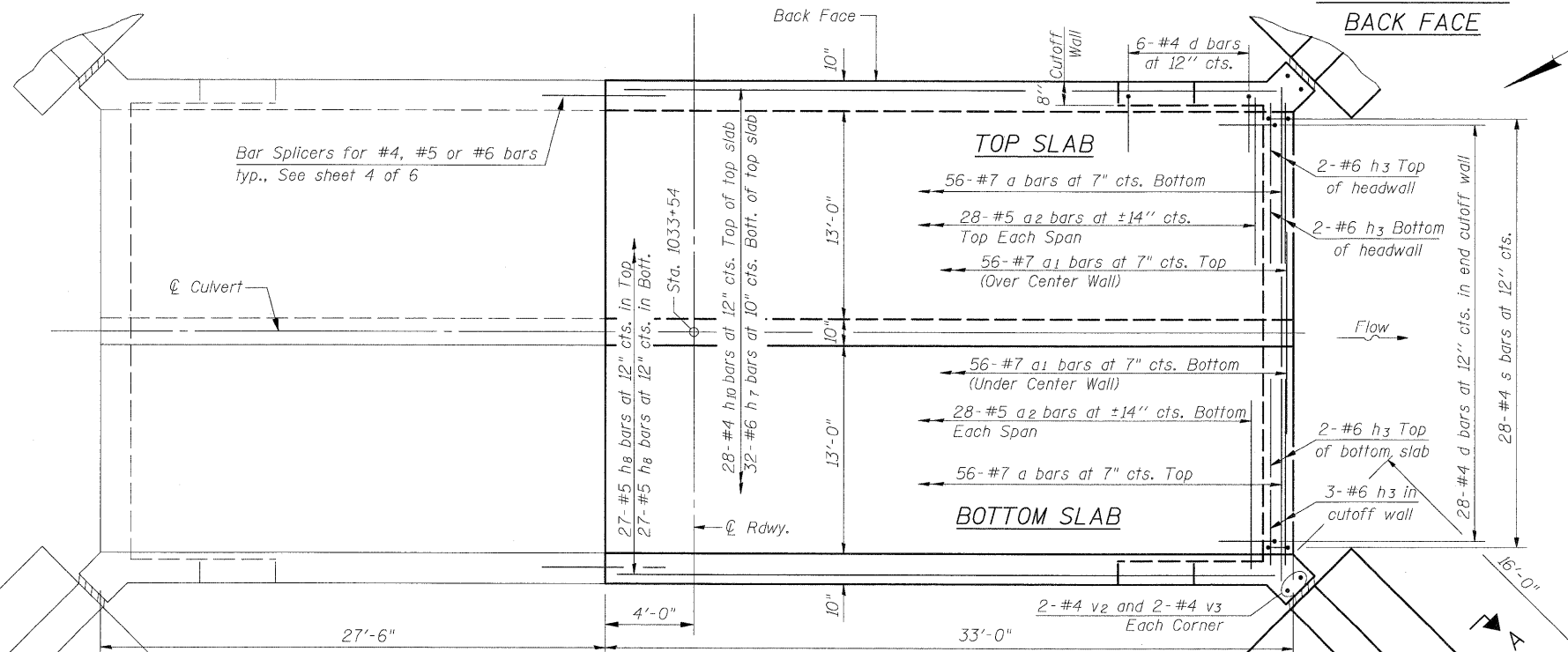
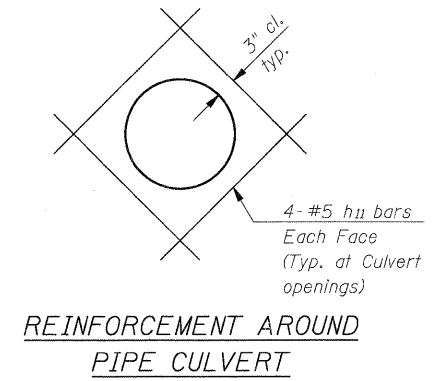
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



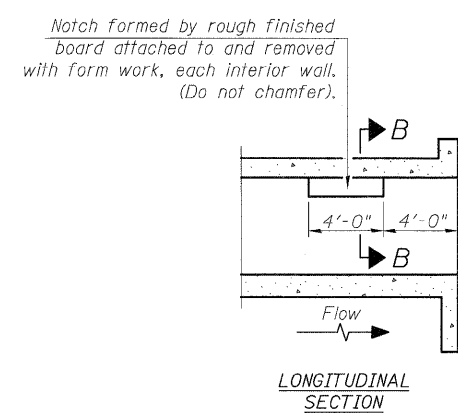
ELEVATION

See sheet 4 of 9 for reinforcement bars in front face of wingwalls.

REINFORCEMENT  
BACK FACE



PLAN



PHOEBE NESTING  
SITE DETAILS

STAGE 2 CULVERT DETAILS  
S.N. 026-2019

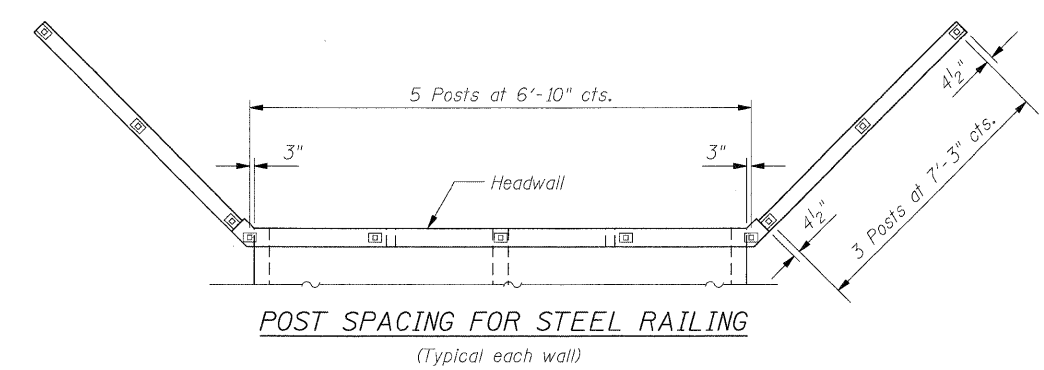
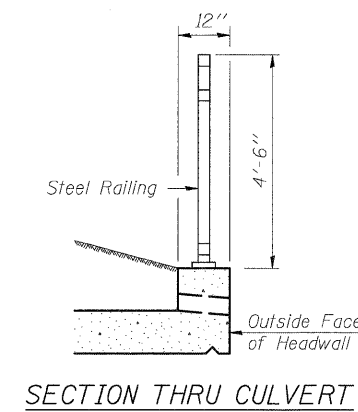
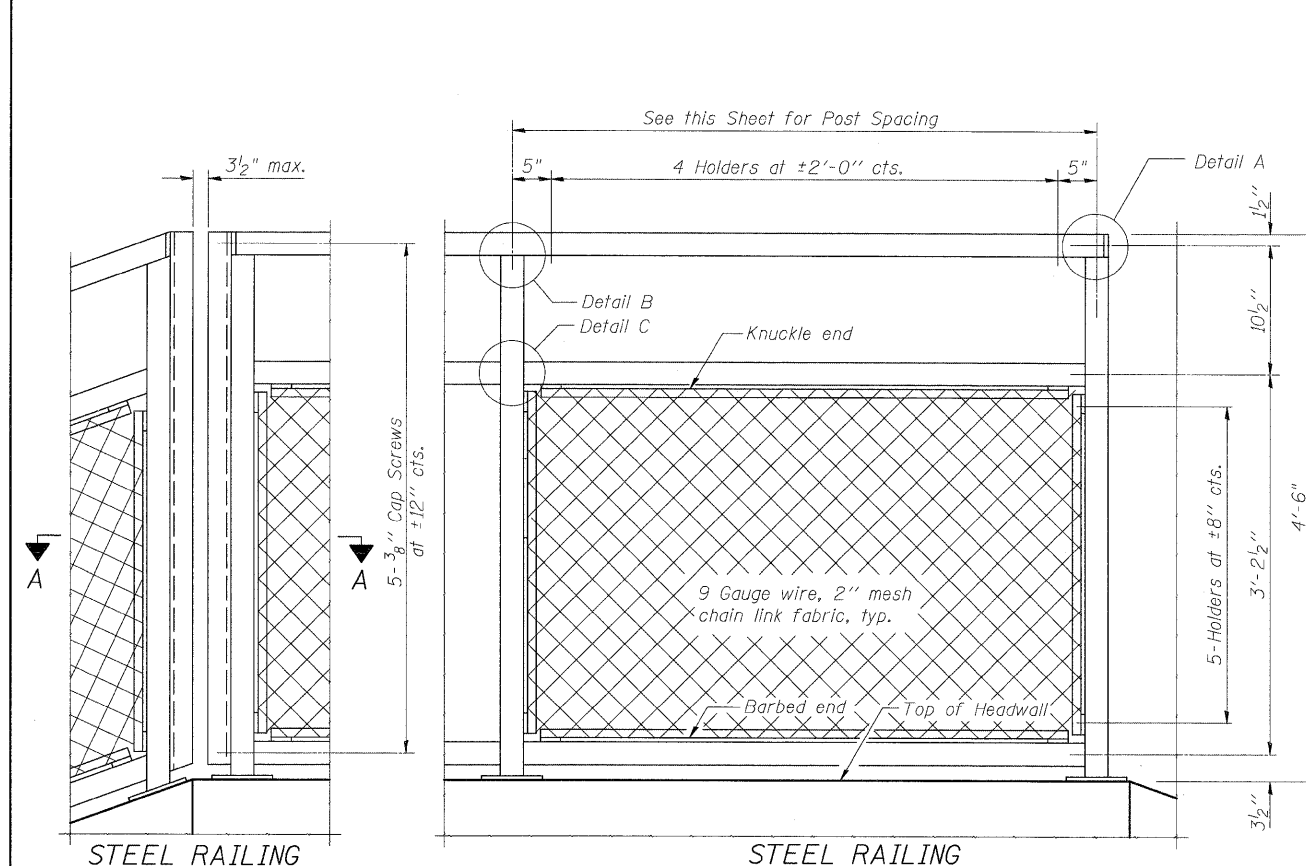
DESIGNED SCD  
CHECKED DRB  
DRAWN THW  
CHECKED SCD

**ie**  
consultants  
IE CONSULTANTS, INC  
6420 SOUTH SIXTH STREET  
SPRINGFIELD, ILLINOIS 62712  
TEL. (217) 529-8027  
FAX (217) 529-4543  
IESPRINGFIELD@IE-CONSULTANTS.COM  
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See Sheet 4 of 9 for reinforcement bars in footings.

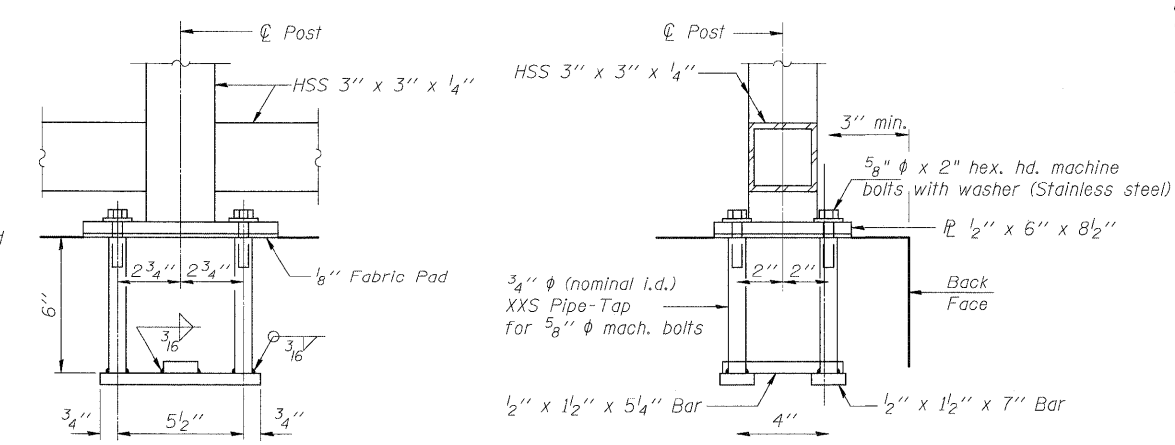
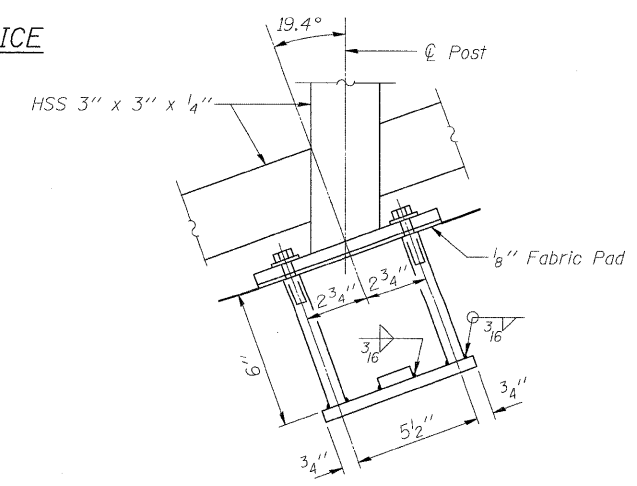
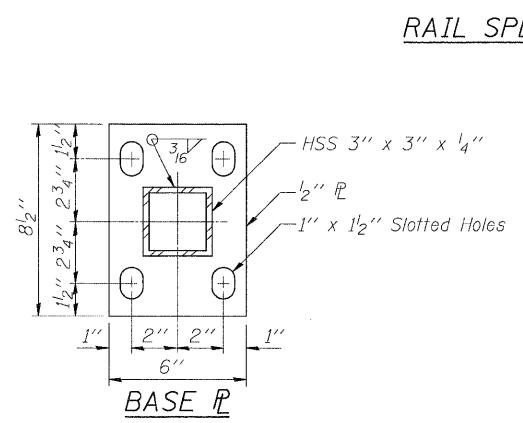
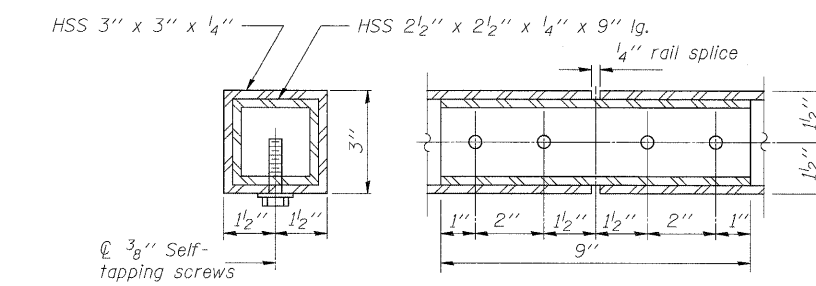
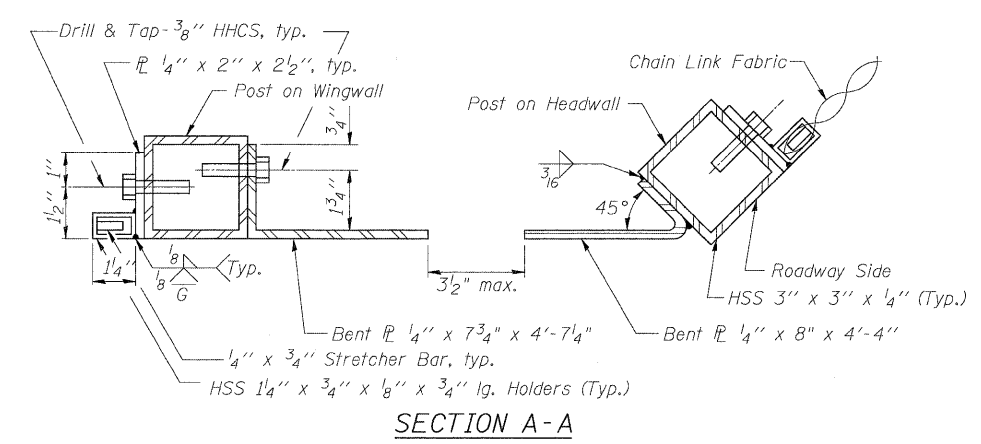
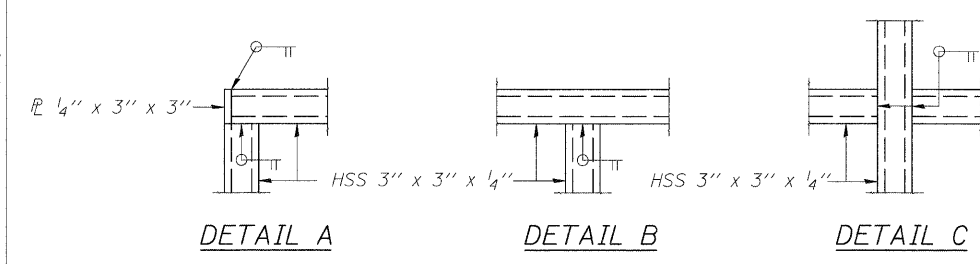
SHEET NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	*	114B-1(1) & 114B-1(2)	FAYETTE	54	46
OF 9 SHEETS	* F.A.P. RTE. 750, F.A.S. RTE. 719		CONTRACT NO. 74110		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



NOTES

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the Contract Unit Price per foot for Bicycle Railing.  
 The 9 gauge fabric ties shall be according to Article 1006.27 (d) of the Standard Specifications.  
 Installation of the chain link fabric shall be according to Section 664 of the Standard Specifications.  
 Hollow structural sections shall conform to the requirements of ASTM designation A 500, Grade B, structural steel tubing.  
 All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36.  
 The chain link fabric shall be placed along Bicycle Side as shown on Section A-A.  
 Stretcher bars shall be used at all four sides of each panel.  
 If the option of drilling and epoxy grouting the anchor rods is chosen, the Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or the adhesive cartridge shall be sealed with pre-measured amounts of the adhesive chemical.  
 Space reinforcement to miss anchor rods.  
 When railing is galvanized:  
 All posts, railing, splices, anchor devices, and bent plates shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. All bolts, nuts, washers, and anchor rods shall be galvanized according to AASHTO M 232 except stainless steel bolts as noted.  
 Vent holes for galvanizing shall be placed in the posts and rails at locations that will not allow the accumulation of moisture in the members.  
 The chain link fabric shall conform to the requirements of Article 1006.27(a)(1), b or c of the Standard Specifications.



STEEL RAILING  
BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing (Special)	Foot	120

STEEL RAILING DETAILS  
S.N. 026-2019

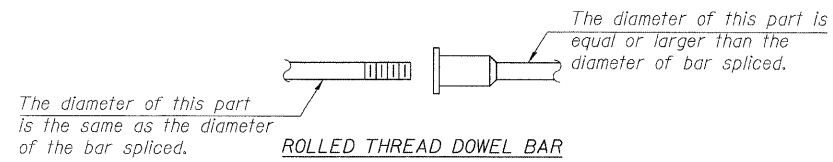
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**ANCHOR BOLT DETAILS**  
 In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and epoxy grouting 3/8" anchor rods. Embedment shall be according to the manufacturer's specifications.

SHEET NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6	*	114B-1(1) & 114B-1(2)	FAYETTE	54	47
OF 9 SHEETS	* F.A.P. RTE. 750, F.A.S. RTE. 719		CONTRACT NO. 74110		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

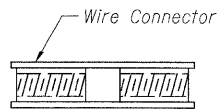
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



ROLLED THREAD DOWEL BAR



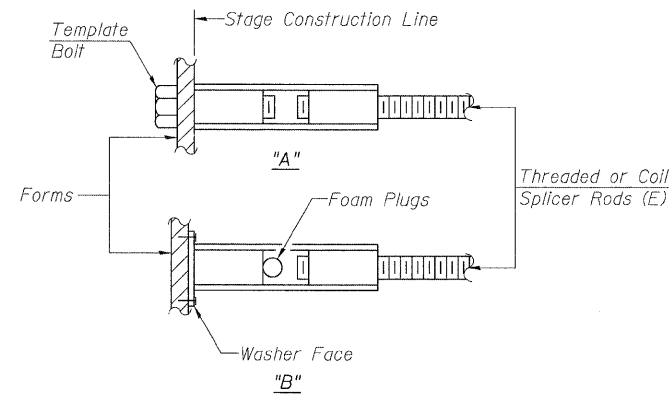
\*\* ONE PIECE



WELDED SECTIONS

**BAR SPLICER ASSEMBLY ALTERNATIVES**

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



**INSTALLATION AND SETTING METHODS**

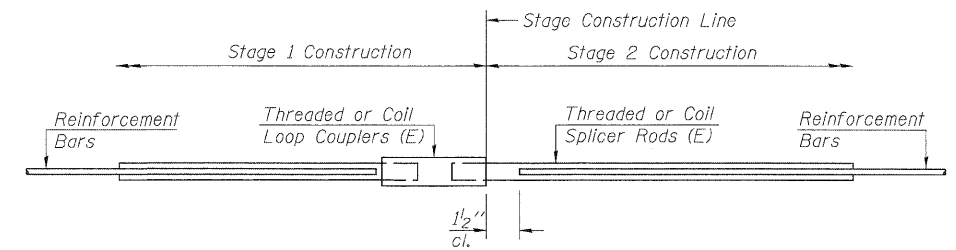
"A" : Set bar splicer assembly by means of a template bolt.  
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
(E) : Indicates epoxy coating.

**NOTES**

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.  
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.  
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.  
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.  
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity (Tension in kips) =  $1.25 \times f_y \times A_t$
  - ② Minimum \*Pull-out Strength (Tension in kips) =  $0.66 \times f_y \times A_t$
- Where  $f_y$  = Yield strength of lapped reinforcement bars in ksi.  
 $A_t$  = Tensile stress area of lapped reinforcement bars.  
\* = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-2"	23.0	12.3
#6	2'-7"	33.1	17.4



**STANDARD**

Bar Size	No. Assemblies Required	Location
#4	28	Top Slab
#5	54	Bottom Slab
#6	32	Top Slab
#6	39	Sidewall

**BAR SPLICER ASSEMBLY DETAILS**  
S.N. 026-2019

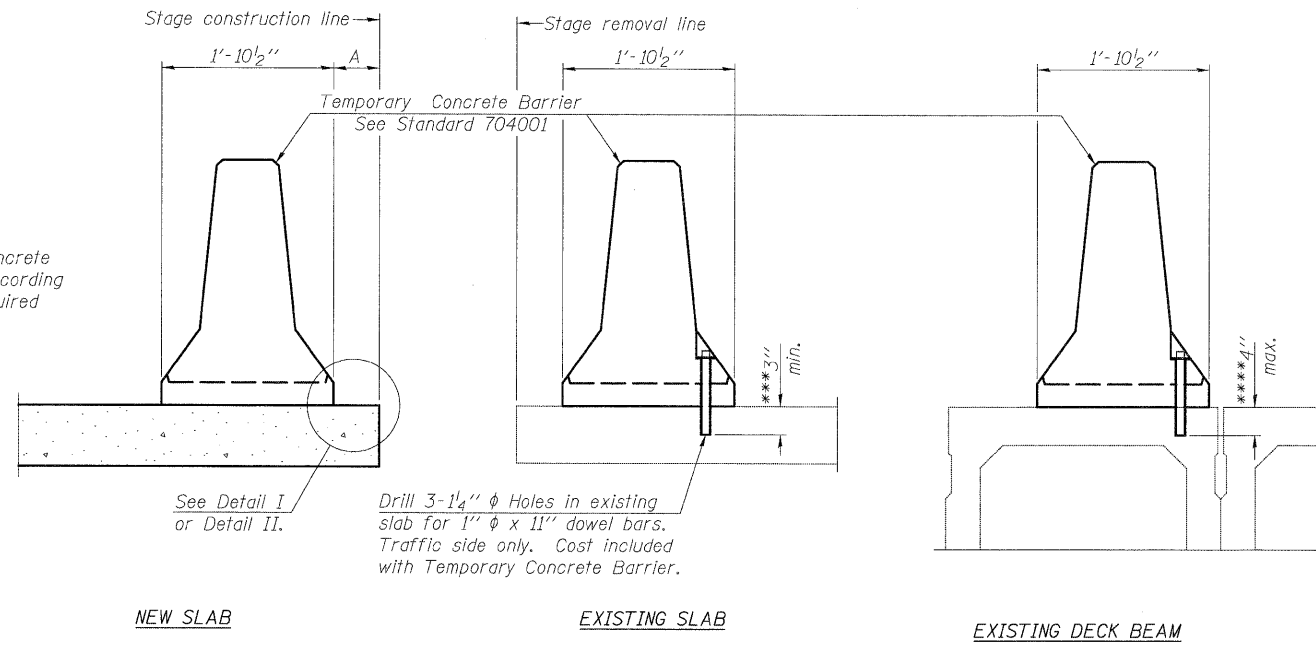
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SHEET NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7	*	114B-1(1) & 114B-1(2)	FAYETTE	54	48
OF 9 SHEETS	* F.A.P. RTE. 750, F.A.S. RTE. 719		CONTRACT NO. 74110		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



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".

See Detail I or Detail II.

Drill 3-1 1/4"  $\phi$  Holes in existing slab for 1"  $\phi$  x 11" dowel bars. Traffic side only. Cost included with Temporary Concrete Barrier.

NEW SLAB

EXISTING SLAB

EXISTING DECK BEAM

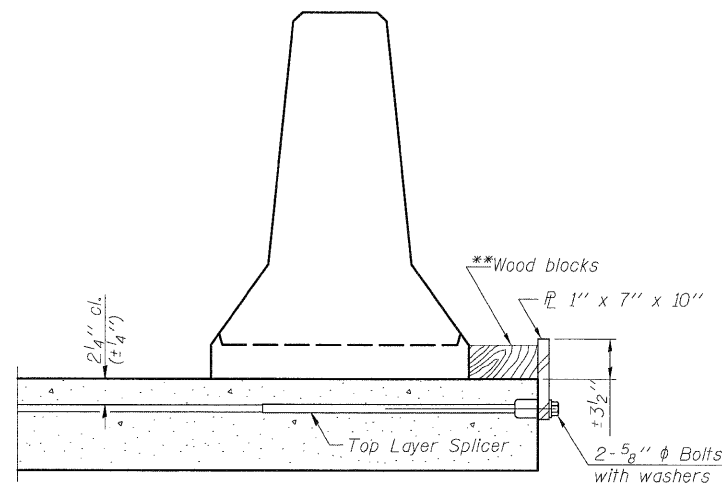
SECTIONS THRU SLAB OR DECK BEAM

NOTES

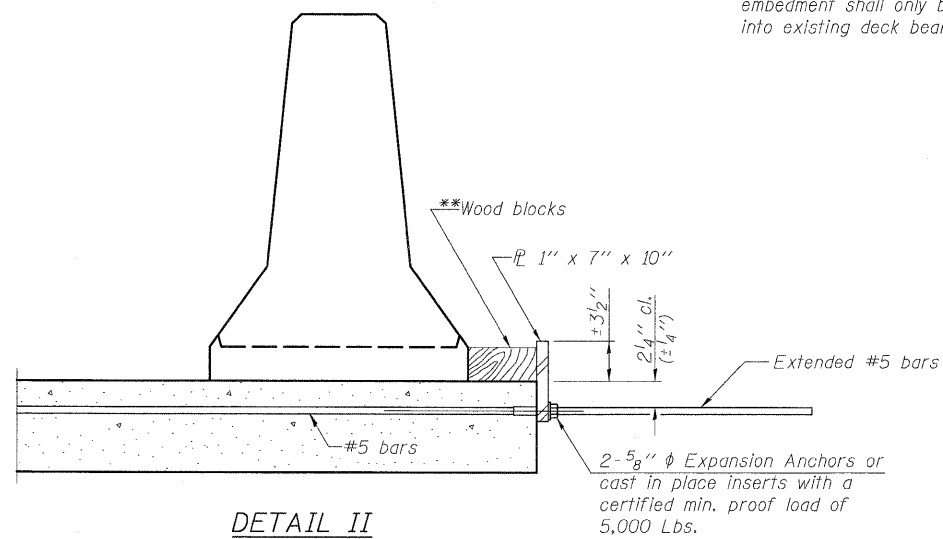
- Detail I - With Bar Splicer or Couplers:  
Connect one (1) 1"x7"x10" steel  $\bar{P}$  to the top layer of couplers with 2-5/8"  $\phi$  bolts screwed to coupler at approximate  $\bar{C}$  of each barrier panel.
- Detail II - With Extended Reinforcement Bars:  
Connect one (1) 1"x7"x10" steel  $\bar{P}$  to the concrete slab or concrete wearing surface with 2-5/8"  $\phi$  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 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

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

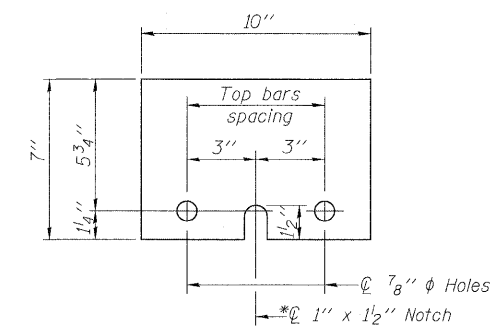
\*\*\*\* If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER  $\bar{P}$  1" x 7" x 10"

\* Required only with Detail II

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

DESIGNED	SCD
CHECKED	DRB
DRAWN	THW
CHECKED	SCD

R-27



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10-1-08

TEMPORARY CONCRETE BARRIER  
FOR STAGE CONSTRUCTION  
S.N. 026-2019

SHEET NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	*	114B-1(1) & 114B-1(2)	FAYETTE	54	49
OF 9 SHEETS	* F.A.P. RTE. 750, F.A.S. RTE. 719		CONTRACT NO. 74110		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



Illinois Department  
of Transportation  
Division of Highways  
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 8/25/08

ROUTE FAS 719 (IL 185) DESCRIPTION Un-named Stream at WCL of Farina LOGGED BY E. Sandschafer

SECTION 114B-1(2) LOCATION N 1/2, SEC. 32, TWP. 5 N, RNG. 4 E, 3 PM

COUNTY Fayette DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. Station	DEPTH H S	BULGE B	SHEAR S	PENETROMETER P	UNCONFINED COMPRESSIVE STRENGTH UCS	FAILURE MODE	DESCRIPTION	ELEVATION	DEPTH H S	BULGE B	SHEAR S	PENETROMETER P	UNCONFINED COMPRESSIVE STRENGTH UCS	FAILURE MODE
028-0072 1033+53.7							Surface Water Elev. 593.08 ft Stream Bed Elev. 592.74 ft							
							Groundwater Elev.: First Encounter Dry ft Upon Completion Dry ft After 24 Hrs. 559.2 ft							
	1						Very stiff, damp, gray, CLAY TILL	571.61	7	2.9	13			
							2 1/8" asphalt on 8 3/4" concrete pavement.		8	B				
							Stiff to medium, damp, gray, SILTY CLAY							
	4							560.41	4					
	3	1.2	20				Very stiff, damp, gray/brown, CLAY LOAM TILL							
	5	B							11	B				
	1								4					
	2	1.0	22						8	3.1	17			
	3	B							10	B				
	1						Medium to stiff, damp, gray, CLAY w/trace Silt	545.41	8					
	2	1.0	23				Very stiff, damp, brown/blue/red, SANDY LOAM TILL		15	3.1	13			
	3	B							23	S				
							Extent of exploration.	543.91						
	0						Soft to medium, damp, gray marbled red, SILTY CLAY							
	2	0.5	23						2	1.1	24			
	2	B					Benchmark BM 101 Chiseled square on SW corner of wingwall on NW corner of existing bridge, Sta 1033+38, 19.4' Lt = 572.53' elevation. Provided by Program Development.							
	3						Very stiff, damp, red to gray, SANDY LOAM TILL to SANDY CLAY TILL		6	2.4	15			
	6	2.4	15						13	B				
	4								7	4.1	10			
	10	B							10	B				
	10						Medium, damp, gray, SANDY LOAM TILL							
	19	0.6	7						18	S				
	18	S												
	4								4					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)



Illinois Department  
of Transportation  
Division of Highways  
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 8/25/08

ROUTE FAS 719 (IL 185) DESCRIPTION Un-named Stream at WCL of Farina LOGGED BY E. Sandschafer

SECTION 114B-1(2) LOCATION N 1/2, SEC. 32, TWP. 5 N, RNG. 4 E, 3 PM

COUNTY Fayette DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. Station	DEPTH H S	BULGE B	SHEAR S	PENETROMETER P	UNCONFINED COMPRESSIVE STRENGTH UCS	FAILURE MODE	DESCRIPTION	ELEVATION	DEPTH H S	BULGE B	SHEAR S	PENETROMETER P	UNCONFINED COMPRESSIVE STRENGTH UCS	FAILURE MODE
026-0072 1033+53.7							Surface Water Elev. 593.08 ft Stream Bed Elev. 592.74 ft							
							Groundwater Elev.: First Encounter 547.4 ft Upon Completion 548.4 ft After 24 Hrs. 558.6 ft							
	40	4.0	10				Very stiff to hard, damp, gray, CLAY TILL w/ some Sandstone fragments. (continued)		40	4.0	10			
							Stiff to medium, damp, gray, CLAY		37	PP				
	3							559.44	9					
	3	0.5	23				Hard, damp, gray, CLAY LOAM TILL							
	4	B							11	5.0	11			
							Augered through concrete.		15	B				
	3													
	2						No recovery - concrete chunk in sampler shoe.		5					
	2								8	4.1	12			
	3						1" layer of wet, fine grained, Sand.		13	B				
	1													
	3	1.7	20				Stiff, damp, gray, SILTY CLAY	545.44	5					
	3	B					Very stiff, damp, gray, SILTY CLAY to SILTY CLAY SHALE		11	2.7	14			
	3	B							16	S				
							Extent of exploration.	543.94						
	2						Stiff, damp, gray, CLAY w/ trace Silt and wood fragments.							
	2	1.1	24						2	1.1	24			
	2	B					Benchmark BM 101 Chiseled square on SW corner of wingwall on NW corner of existing bridge, Sta 1033+38, 19.4' Lt = 572.53' elevation. Provided by Program Development.							
	4						Hard, damp, brown, SANDY CLAY TILL		6	4.6	11			
	8	B							8	B				
	5													
	10	3.1	11				Very stiff, damp, brown, SANDY CLAY LOAM TILL		10	3.1	11			
	11	S							11	S				
	5													
	14	4.4	10				Hard, damp, gray, CLAY LOAM TILL		14	4.4	10			
	16	B							16	B				
	8													

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

DESIGNED SCD  
CHECKED DRB  
DRAWN THW  
CHECKED SCD



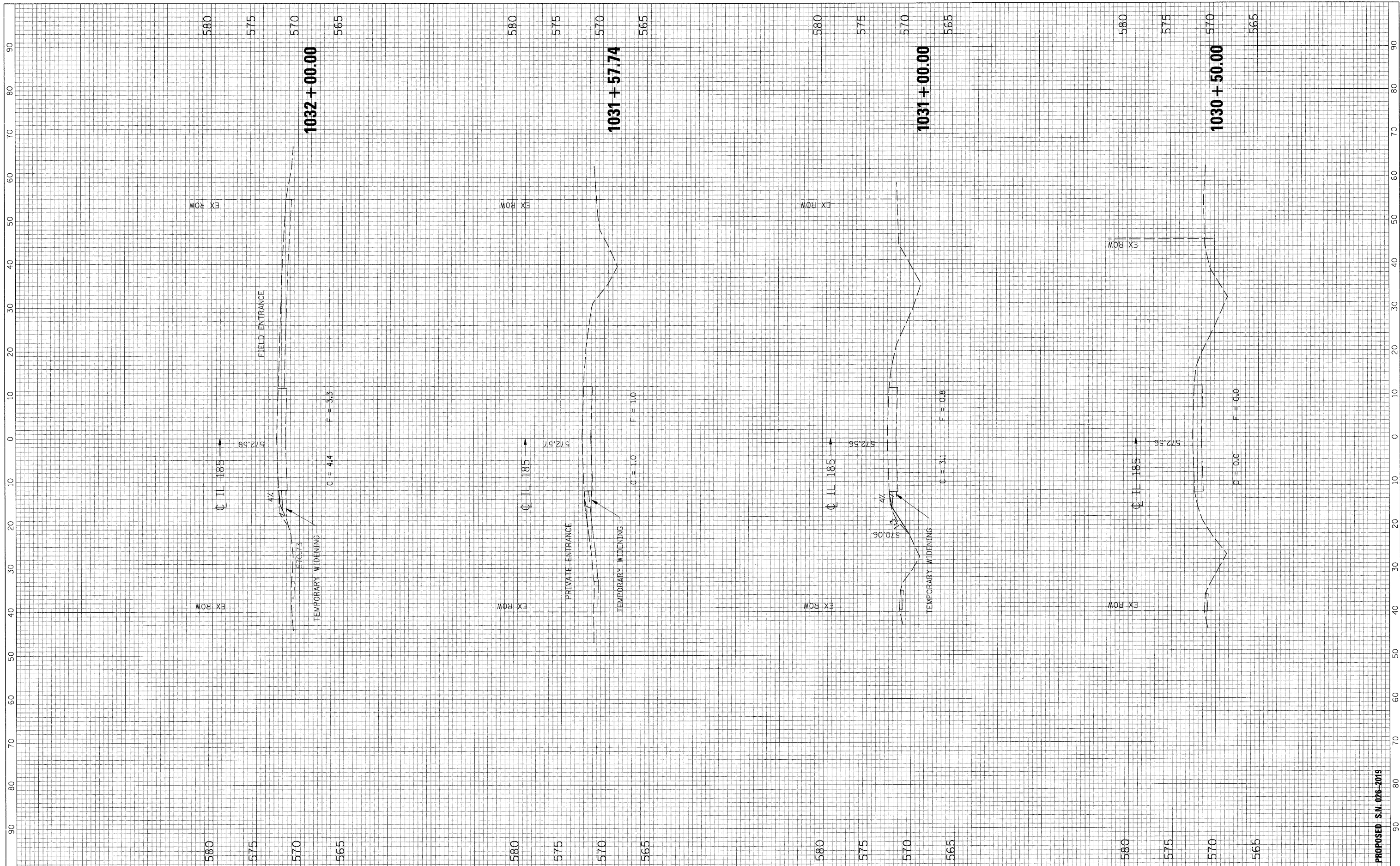
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SOIL BORINGS  
S.N. 026-2019

SHEET NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9	*	114B-1(1) & 114B-1(2)	FAYETTE	54	50
OF 9 SHEETS	* F.A.P. RTE. 750, F.A.S. RTE. 719		CONTRACT NO. 74110		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	DATE
NO.	NO.		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NO.	NO.		

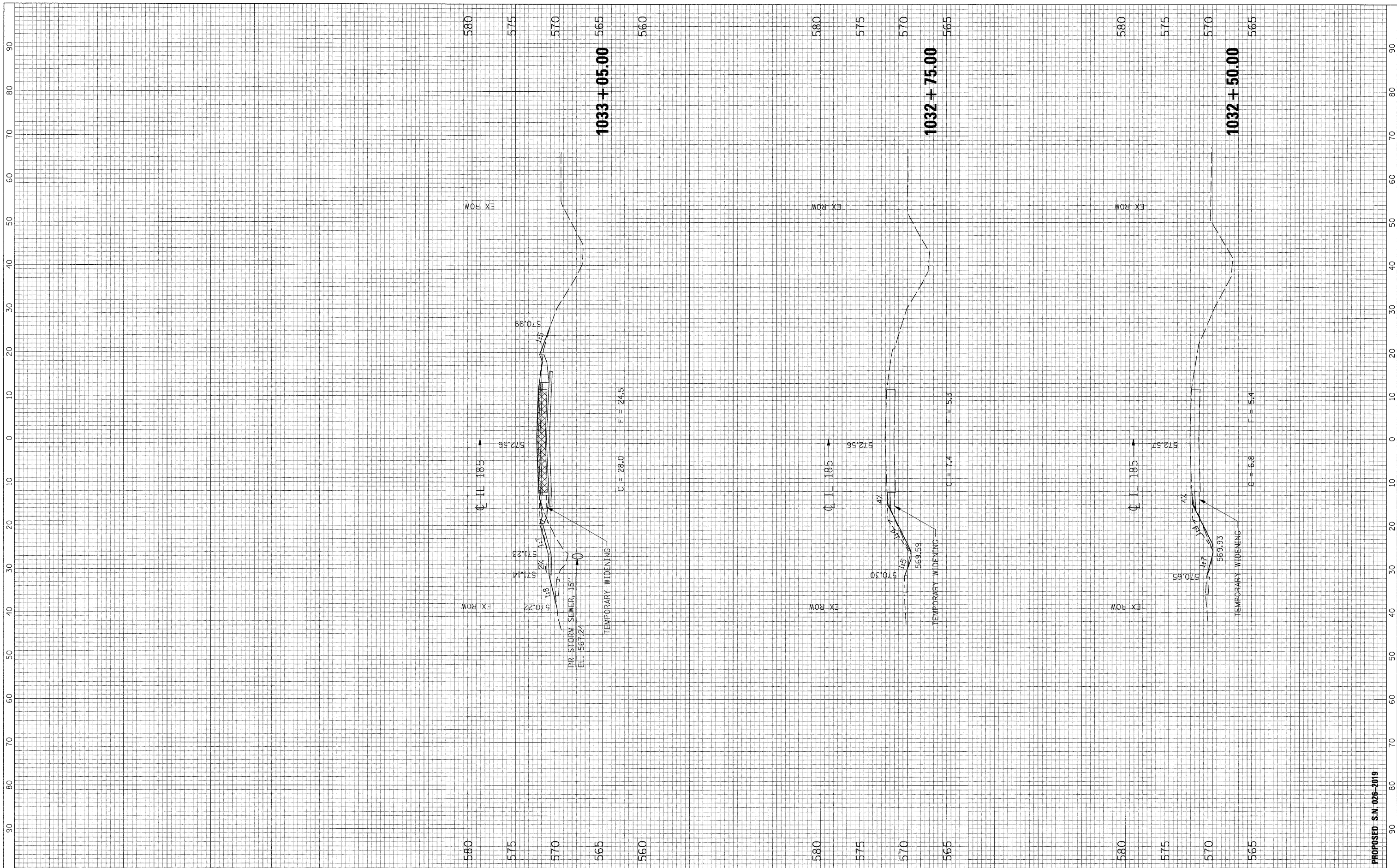


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PLOT DATE = 9/29/2009	DATE -	REVISOR -	REVISOR -		• F.A.P. RTE. 750, F.A.S. RTE. 719 CONTRACT NO. 74110 [ILLINOIS] FED. AID PROJECT								
					PROPOSED S.N. 026-2019								



FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET NO. OF SHEETS STA. 1032+50.00 TO STA. 1033+05.00

**CROSS SECTIONS - IL ROUTE 185**

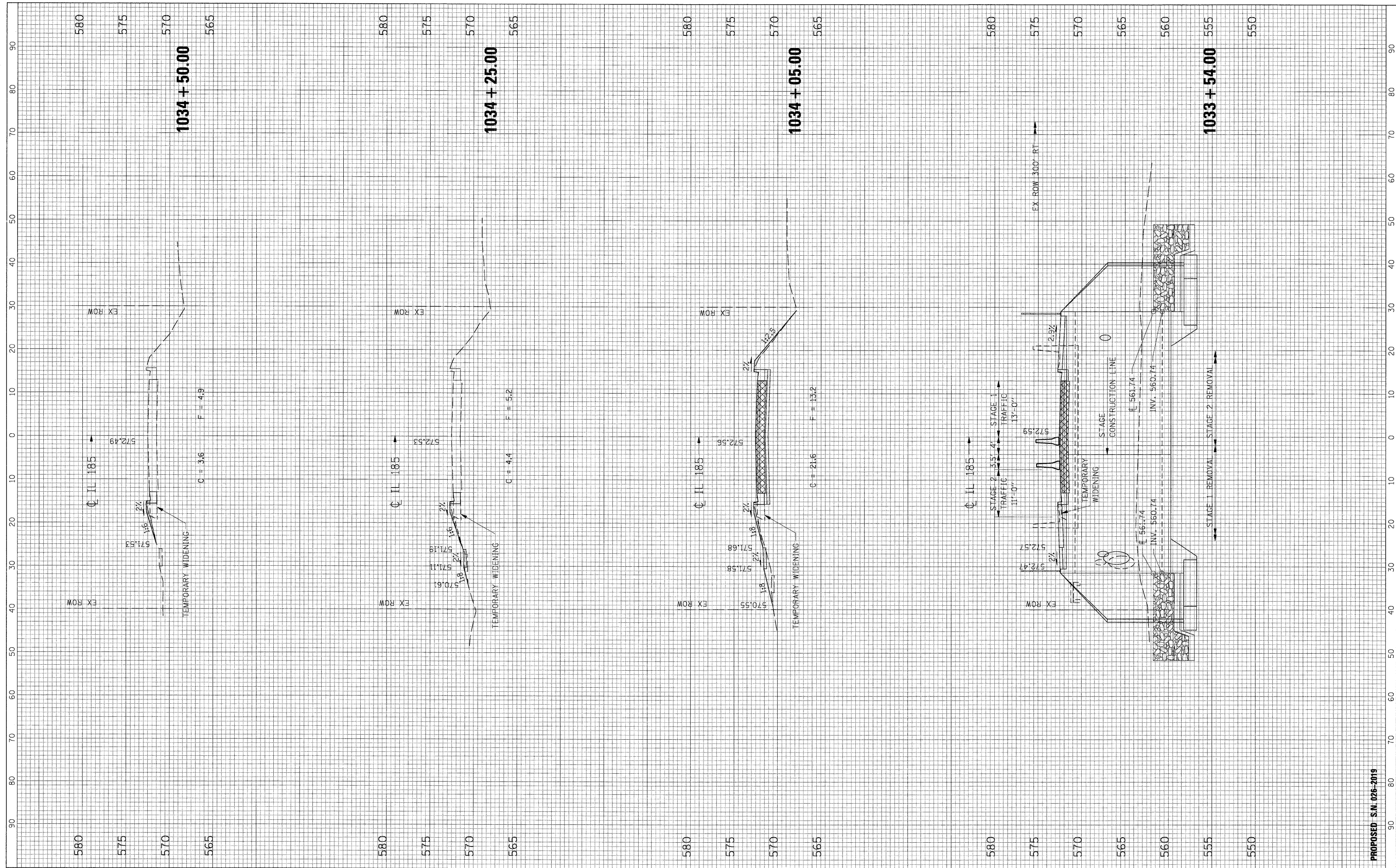
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•	114B-1(1) & 114B-1(2)	FAYETTE	54	52
•	F.A.P. RTE. 750, F.A.S. RTE. 719	CONTRACT NO.	74110	
	[ILLINOIS] FED. AID PROJECT			

PROPOSED S.N. 026-2019



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ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
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	TEMPLATE		
	AREAS CHECKED		



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**STATE OF ILLINOIS  
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**CROSS SECTIONS - IL ROUTE 185**

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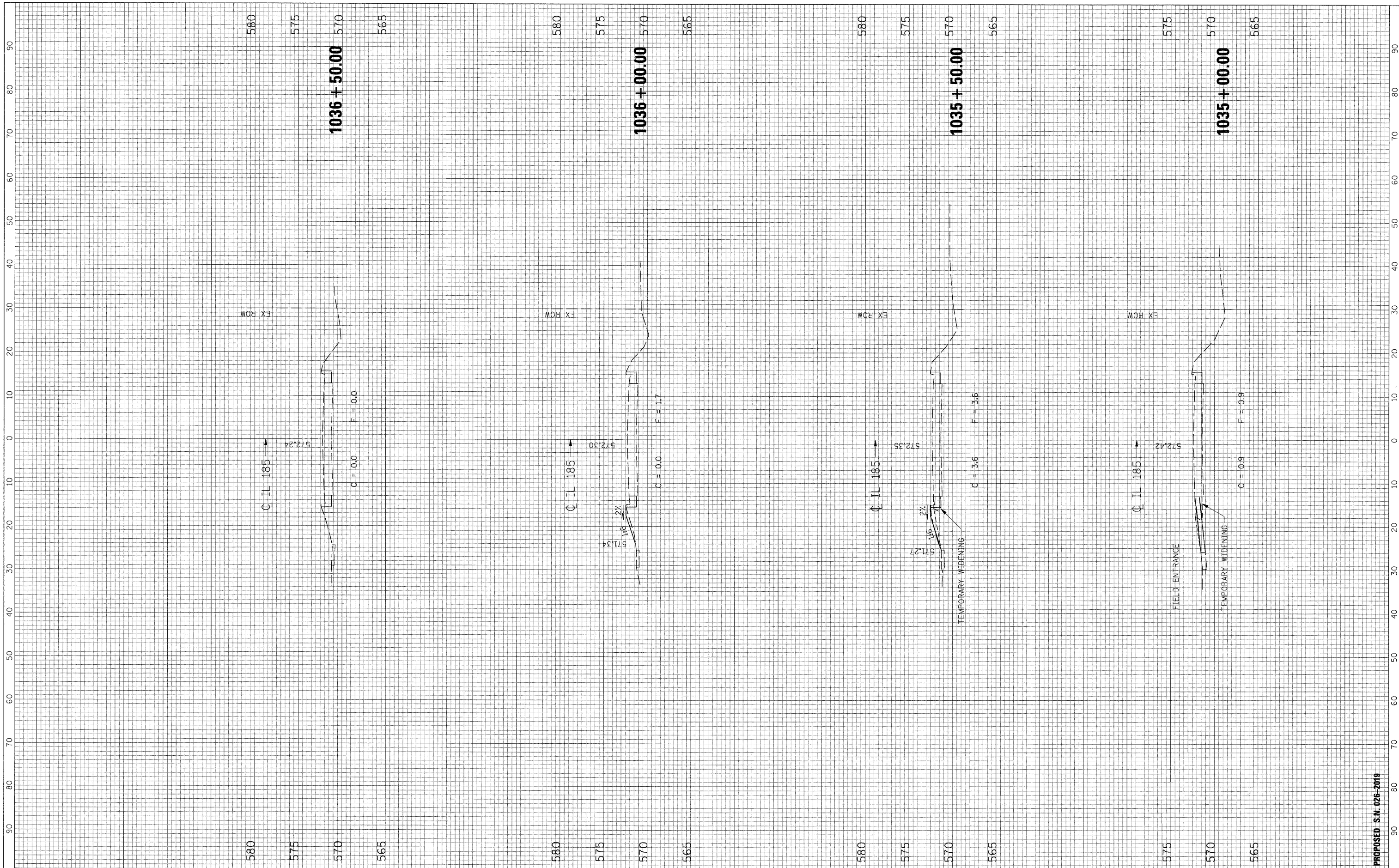
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• 114B-1(1) & 114B-1(2)	FAYETTE		54	53
• F.A.P. RTE. 750, F.A.S. RTE. 719	CONTRACT NO.		74110	
ILLINOIS FED. AID PROJECT				

PROPOSED S.N. 026-2019



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SCALE: SHEET NO. OF SHEETS STA. 1035+00.00 TO STA. 1036+50.00

**CROSS SECTIONS - IL ROUTE 185**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• 114B-1(1) & 114B-1(2)	FAYETTE	54	54	
• F.A.P. RTE. 750, F.A.S. RTE. 719	CONTRACT NO.	74110		
ILLINOIS FED. AID PROJECT				

PROPOSED S.N. 026-2019