3-10-06 Letting, Item 105

92667

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104 +1 = 105	1

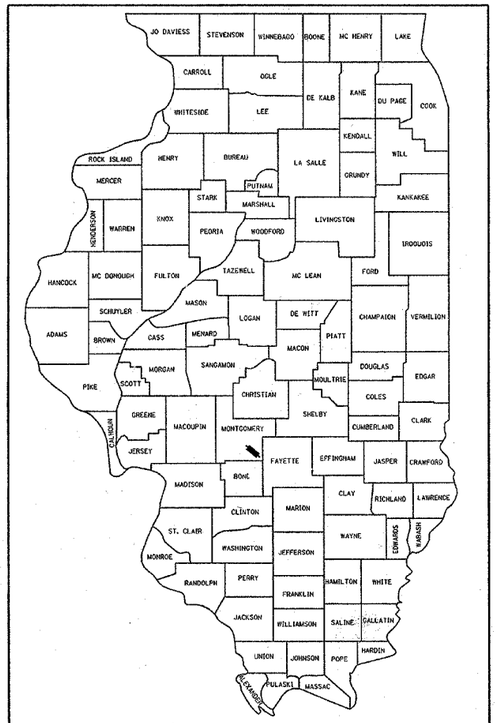
FOR INDEX OF SHEETS AND HIGHWAY STANDARDS, SEE SHEET 2.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

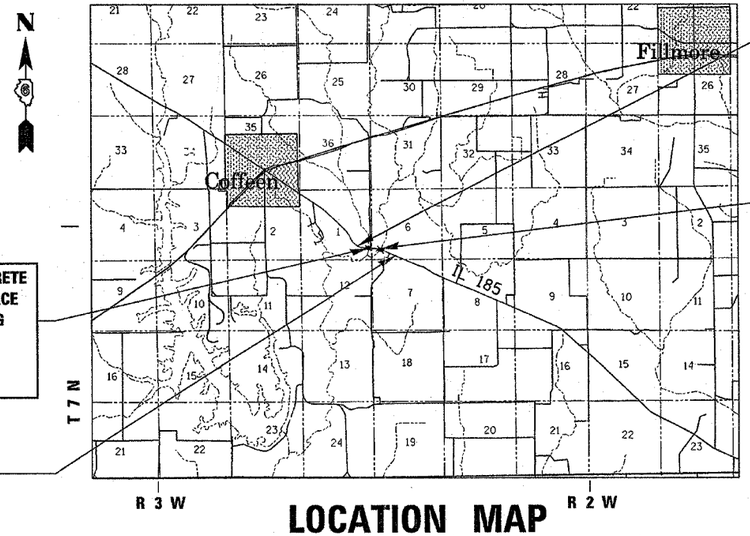
PROPOSED HIGHWAY PLANS

FAP ROUTE 777 (IL 185)
SECTION 10(B-1, BR-2)
PROJECT # F-BRF-0777(013)
1.3 MILES SOUTHEAST OF COFFEEN
STRUCTURE REPLACEMENT & REHABILITATION
MONTGOMERY COUNTY
C-96-543-96

D-96-536-94



LOCATION OF SECTION INDICATED THUS: –



LOCATION MAP

1 0 1 1" = 1 MILE

PROJECT BEGINS
STATION 491+00.00

PROPOSED TOTAL STRUTURE REPLACEMENT FOR THE BRIDGE CARRYING FAP 777 OVER THE EAST FORK OF SHOAL CREEK
STA. 500+44.04
S.N. 068-0028 (EXISTING)
S.N. 068-0505 (PROPOSED)

PROPOSED REINFORCED CONCRETE BRIDGE DECK WEARING SURFACE FOR THE STRUCTURE CARRYING FAP 777 OVER BAYOU CREEK
STATION 492+70.28
S.N. 068-0027

PROJECT ENDS
STATION 505+50.00

TOTAL LENGTH OF PROJECT = 1450.00 FEET = 0.275 MILES
HIGHWAY CLASSIFICATION = MINOR ARTERIAL (RURAL)
IL RTE. 185 ADT = 1700 (2003)
IL RTE. 185 ADT = 2000 (2023)
T.R. 318 ADT = 175 (2002)
T.R. 318 ADT = 175 (2005)

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

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

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

CONTRACT NO. 92667

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Jan. 9, 2006
Chester H. Reed
DISTRICT ENGINEER

February 3, 2006
Mike Hine PE
ENGINEER OF DESIGN AND ENVIRONMENT

February 3, 2006
Milton R Sees P.E.
DIRECTOR, DIVISION OF HIGHWAYS

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROJECT ENGINEER: SAL MADONIA (217)-782-4761
SQUAD TECHNICIAN: TIM SLAGLE (217)-782-4761

CONTRACT NO. 92667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	2
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

1. THICKNESS OF RESURFACING: THE THICKNESS OF THE REINFORCED CONCRETE OVERLAY SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING BRIDGE DECK SURFACE ON WHICH THE OVERLAY IS PLACED.
2. ALL ELEVATIONS SHOWN ON THE PLANS ARE ESTABLISHED FROM U.S.G.S. MEAN SEA LEVEL DATUM.
3. THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.
4. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT, HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
5. EXISTING ROAD SIGNS THAT CONFLICT WITH STAGE CONSTRUCTION TRAFFIC PATTERNS SHALL BE COVERED OR REMOVED UNTIL NORMAL TRAFFIC PATTERNS ARE RE-ESTABLISHED.
6. ACCESS TO ALL ENTRANCES AND SIDE ROADS SHALL BE MAINTAINED AT ALL TIMES.
7. GUARDRAIL MARKERS SHALL NOT BE ATTACHED TO THE RAIL OF THE 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 TOP OF THE NEAREST POST.
8. 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.

APPLICATION RATES

SEEDING FERTILIZER NUTRIENTS (NIT:PHOS:POT)	90: 90: 90: lbs./acre
MULCH RATE	2.0 tons/acre
AGRICULTURAL GROUND LIMESTONE	2.0 tons/acre
ALL AGGREGATE ITEMS	2.05 tons/cu. yd.
STONE DUMPED RIPRAP	1.75 tons/cu. yd.
BITUMINOUS MATERIALS (PRIME COAT)	0.00038 tons/sq. yd.
BITUMINOUS MATERIALS (PRIME COAT) ON AGG	0.001425 tons/sq. yd.
AGGREGATE (PRIME COAT)	0.01 tons/sq. yd.
BITUMINOUS CONCRETE BASE COURSE WIDENING	112 lbs/sq. yd. inch
BITUMINOUS CONCRETE BINDER COURSE	112 lbs/sq. yd. inch
BITUMINOUS CONCRETE SURFACE COURSE	112 lbs/sq. yd. inch
BITUMINOUS SHOULDERS SUPERPAVE	112 lbs/sq. yd. inch
INCIDENTAL BITUMINOUS SURFACE	112 lbs/sq. yd. inch

9. 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
10. ALL ENTRANCES AND SIDE ROAD BUTT JOINTS SHOWN IN THE PLANS ARE TO BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.

MIXTURE REQUIREMENTS

MIXTURE USE(S):	IL RTE. 185	IL RTE. 185	IL RTE. 185 (ROADWAY)	IL RTE. 185 (SHOULDERS)	MISC. (ENTRANCES)
	BIT CONC SURF CSE SUPERPAVE	LEVELING BINDER	BIT BINDER COURSE SUPERPAVE	BIT BASE COURSE SUPERPAVE	INCID BIT SURF
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 58-22	PG 64-22
RAP % (MAX)	15%	20%	20%	15%	15%
DESIGN AIR VOIDS	4.0% @ N DESIGN = 50	4.0% @ N DESIGN = 50	4.0% @ N DESIGN = 50	2.0% @ N DESIGN = 50	4.0% @ N DESIGN = 50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5 OR 12.5	IL 9.5	IL 19.0	IL 19.0	IL 9.5 OR 12.5
VOLUMETRIC REQ'S	-	-	-	-	-
FRICTION AGGREGATE	MIX "C"	N/A	N/A	N/A	MIX "C"

MIXTURE USE(S):	T.R. 318 (UP TO RADIUS RETURN)	T.R. 318 (UP TO RADIUS RETURN)
	BIT CONC SURF CSE SUPERPAVE	BIT BASE COURSE SUPERPAVE
AC/PG	PG 64-22	PG 58-22
RAP % (MAX)	15%	15%
DESIGN AIR VOIDS	4.0% @ N DESIGN = 50	2.0% @ N DESIGN = 50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5 OR 12.5	IL 19.0
VOLUMETRIC REQ'S	-	-
FRICTION AGGREGATE	MIX "C"	N/A

STANDARDS

000001-04	631031-05	701321-08
001001	635006-02	701326-02
001006	635011-01	702001-05
280001-02	666001	704001-02
420401-05	667101	720001
482001	701001-01	720006
515001-02	701006-02	720011
542301	701011-01	729001
542311	701201-02	780001-01
542401	701301-02	781001-02
601101	701306-01	886001
609006-02	701311-02	886006
630001-05		
630301-03		
631011-02		

INDEX OF SHEETS

DISTRICT SIX

EXAMINED January 6 20 06
OPERATIONS ENGINEER

EXAMINED Jan 5 20 06
PROGRAM IMPLEMENTATION ENGINEER

EXAMINED January 9 20 06
PROGRAM DEVELOPMENT ENGINEER

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

FAP 777 (IL RTE. 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE:
DRAWN BY
DATE 3/29/04
CHECKED BY

Rev.

CONTRACT NO. 92667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
III	10(B-1,BR-2)	MONTGOMERY	124	3
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

F — BRF

LOCATION OF WORK
IL 185, T.R. 318
± 1.4 MILES SOUTWEST OF COFFEEN
MONTGOMERY COUNTY

SUMMARY OF QUANTITIES

PAYCODE	PAY ITEM DESCRIPTION	UNITS	TOTAL QUANTITY	RURAL			
				ROADWAY		STRUCTURES	
				IL 185	TR 318	BAYOU CREEK 068-0027	SHOAL CREEK 068-0505 PR
				CONSTRUCTION TYPE CODE			
				1000-2A		SFTY-2A	X071-2A
				80% FED / 20% STATE		80% FED / 20% STATE	80% FED / 20% STATE
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	36	0	36	0	0
20200100	EARTH EXCAVATION	CU YD	1502	1348	154	0	0
20300100	CHANNEL EXCAVATION	CU YD	375	375	0	0	0
20400800	FURNISHED EXCAVATION	CU YD	2690	1983	707	0	0
20700400	POROUS GRANULAR EMBANKMENT(SPECIAL)	CU YD	89.7	0	0	0	89.7
20800150	TRENCH BACKFILL	CU YD	20	0	20	0	0
25000200	SEEDING, CLASS 2	ACRE	2	1.5	0.5	0	0
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	180	135	45	0	0
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	180	135	45	0	0
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	180	135	45	0	0
25000700	AGRICULTURAL GROUND LIMESTONE	TON	4	3	1	0	0
25100115	MULCH, METHOD 2	ACRE	2	1.50	0.50	0	0
25100630	EROSION CONTROL BLANKET	SQ YD	539	450	89	0	0
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	200	150	50	0	0
28000300	TEMPORARY DITCH CHECKS	EACH	20	15	5	0	0
28100107	STONE RIPRAP CLASS A4	SQ YD	722.2	0	41	0	681.2
28100125	STONE RIPRAP, CLASS B3	SQ YD	672	672	0	0	0
28200200	FILTER FABRIC	SQ YD	722.2	0	41	0	681.2
31100910	SUB-BASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	582	0	582	0	0

Rev.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES
FAP 777 (IL RTE. 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT. HORIZ. DRAWN BY
DATE CHECKED BY

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CONTRACT NO. 92667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1,BR-2)	MONTGOMERY	104	4
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

LOCATION OF WORK
IL 185, T.R. 318
± 1.4 MILES SOUTWEST OF COFFEEN
MONTGOMERY COUNTY

SUMMARY OF QUANTITIES

F — BRF

PAYCODE	PAY ITEM DESCRIPTION	UNITS	TOTAL QUANTITY	RURAL			
				ROADWAY		STRUCTURES	
				IL 185	TR 318	BAYOU CREEK	SHOAL CREEK
						068-0027	068-0505 PR
				CONSTRUCTION TYPE CODE			
				I000-2A		SFTY-2A	X071-2A
				80% FED / 20% STATE		80% FED / 20% STATE	80% FED / 20% STATE
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	2745	2633	112	0	0
40300400	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	TON	2.5	0	2.5	0	0
40300500	COVER COAT AGGREGATE	TON	11.6	0	11.6	0	0
40300600	SEAL COAT AGGREGATE	TON	5.8	0	5.8	0	0
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	3.1	2.2	0.9	0	0
40600300	AGGREGATE (PRIME COAT)	TON	7.0	7.0	0	0	0
40600895	CONSTRUCTING TEST STRIP	EACH	2	2	0	0	0
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	187	187	0	0	0
40600990	TEMPORARY RAMP	SQ YD	508.1	508.1	0	0	0
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	226	226	0	0	0
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	43	43	0	0	0
44000030	BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	1791	1791	0	0	0
44000100	PAVEMENT REMOVAL	SQ YD	559	239	320	0	0
44000920	BITUMINOUS CONCRETE SHOULDER REMOVAL	SQ YD	1069	1069	0	0	0
44001205	BITUMINOUS CONCRETE SURFACE REMOVAL COMPLETE	SQ YD	191.5	0	0	191.5	0
48101200	AGGREGATE SHOULDERS, TYPE B	TON	26	0	26	0	0
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	0	0	0	1
50102400	CONCRETE REMOVAL	CU.YD.	2.1			2.1	
50105220	PIPE CULVERT REMOVAL	FOOT	120	87	33	0	0
50200100	STRUCTURE EXCAVATION	CU YD	166.1	0	0	0	166.1

REVISIONS	
NAME	DATE

Rev.

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES
FAP 777 (IL RTE. 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT. HORIZ. DRAWN BY
DATE CHECKED BY

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CONTRACT NO. 92667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1,BR-2)	MONTGOMERY	104	5
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

LOCATION OF WORK
IL 185, T.R. 318
± 1.4 MILES SOUTWEST OF COFFEEN
MONTGOMERY COUNTY

SUMMARY OF QUANTITIES

				F		BRF	
				RURAL			
				ROADWAY		STRUCTURES	
				IL 185	TR 318	BAYOU CREEK	SHOAL CREEK
						068-0027	068-0505 PR
				CONSTRUCTION TYPE CODE			
				I000-2A		SFTY-2A	X071-2A
PAYCODE	PAY ITEM DESCRIPTION	UNITS	TOTAL QUANTITY	80% FED / 20% STATE		80% FED / 20% STATE	80% FED / 20% STATE
50300100	FLOOR DRAINS	EACH	3	0	0	0	3
50300225	CONCRETE STRUCTURE	CU YD	150.8	0	0	2.1	148.7
50300255	CONCRETE SUPERSTRUCTURE	CU YD	186.3	0	0	0	186.3
50300260	BRIDGE DECK GROOVING	SQ YD	675	0	0	146	529
50300300	PROTECTIVE COAT	SQ YD	850.6	0	0	155	695.6
50301200	CONCRETE WEARING SURFACE	SQ YD	191.5	0	0	191.5	0
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	0	0	0	1
50500505	STUD SHEAR CONNECTORS	EACH	2676	0	0	0	2676
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	57,251	0	0	1881	55,370
51201300	FURNISHING STEEL PILES HP8 X 36	FOOT	374	0	0	0	374
51201600	FURNISHING STEEL PILES HP12 X 53	FOOT	408	0	0	0	408
51202700	DRIVING STEEL PILES	FOOT	374	0	0	0	374
51203300	TEST PILE STEEL HP8 X 36	EACH	1	0	0	0	1
51500100	NAME PLATES	EACH	1	0	0	0	1
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTION, 18"	EACH	2	0	2	0	0
54215547	METAL END SECTIONS 12"	EACH	1	1	0	0	0
542A1063	PIPE CULVERTS, CLASS A, TYPE 2 18"	FOOT	47	0	47	0	0
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	53	53	0	0	0
542D0235	PIPE CULVERTS, CLASS D, TYPE 1 30"	FOOT	41	41	0	0	0
59100100	GEOCOMPOSITE WALL DRAIN	SQ. YD.	53.4				53.4

REVISIONS	
NAME	DATE

Rev.

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES
FAP 777 (IL RTE. 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY
SCALE: VERT.
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LOCATION OF WORK
IL 185, T.R. 318
± 1.4 MILES SOUTHWEST OF COFFEEN
MONTGOMERY COUNTY

SUMMARY OF QUANTITIES

				RURAL (F)		(BRF)	
				ROADWAY		STRUCTURES	
				IL 185	TR 318	BAYOU CREEK 068-0027	SHOAL CREEK 068-0505 PR
				CONSTRUCTION TYPE CODE			
				I000-2A		SFTY-2A	X071-2A
PAYCODE	PAY ITEM DESCRIPTION	UNITS	TOTAL QUANTITY	80% FED / 20% STATE		80% FED / 20% STATE	80% FED / 20% STATE
60100945	PIPE DRAINS 12"	FOOT	35	35	0	0	0
60109580	PIPE UNDERDRAIN FOR STRUCTURES, 4"	FOOT	126.9				126.9
60900140	TYPE B INLET BOX, STANDARD 609006	EACH	1	1	0	0	0
60900515	CONCRETE THRUST BLOCKS	EACH	1	1	0	0	0
*63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	786	786	0		
*63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	3	3	0	0	0
*63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4	4	0	0	0
*63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	0	0	0
*63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	9	9	0	0	0
63200310	GUARDRAIL REMOVAL	FOOT	1382	1382	0	0	0
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	14	5	1	2	6
67100100	MOBILIZATION	L SUM	1.0	0.0	0.0	0.5	0.5
70100405	TRAFFIC CONTROL AND PROTECTION STANDARD 701321	EACH	2	0	0	1	1
70100450	TRAFFIC CONTROL AND PROTECTION STANDARD 701201	L SUM	1	1	0	0	0
70100460	TRAFFIC CONTROL AND PROTECTION STANDARD 701306	L SUM	1	1	0	0	0
70100500	TRAFFIC CONTROL AND PROTECTION STANDARD 701326	L SUM	1	1	0	0	0
70101830	TRAFFIC CONTROL AND PROTECTION STANDARD BLR 21	L SUM	1	0	1	0	0
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	2	0	0	0
70106700	TEMPORARY RUMBLE STRIP	EACH	12	12	0	0	0
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	11255	11255	0	0	0
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	11152	11152	0	0	0

* SPECIALTY ITEMS

Rev

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES
FAP 777 (IL RTE. 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT. HORIZ.
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CONTRACT NO. 92667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1,BR-2)	MONTGOMERY	104	7
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

LOCATION OF WORK
IL 185, T. R. 318
± 1.4 MILES SOUTWEST OF COFFEEN
MONTGOMERY COUNTY

SUMMARY OF QUANTITIES

PAYCODE	PAY ITEM DESCRIPTION	UNITS	TOTAL QUANTITY	F		BRF	
				RURAL			
				ROADWAY		STRUCTURES	
				IL 185	TR 318	BAYOU CREEK	SHOAL CREEK
						068-0027	068-0505 PR
				CONSTRUCTION TYPE CODE			
				I000-2A		SFTY-2A	X071-2A
				80% FED / 20% STATE		80% FED / 20% STATE	80% FED / 20% STATE
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	103	103	0	0	0
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	5883	5883	0	0	0
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1800	1800	0	0	0
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1710	1710	0	0	0
70500665	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2			
70500100	TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	410	410	0	0	0
70500660	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	2	2			
* 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	3263	3263	0	0	0
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	16	16	0	0	0
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	13	13			
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	16	16	0	0	0
X0320887	POLYMER CONCRETE	CU FT	2.2	0.0	0.0	2.2	0.0
X0322472	RADIUS GUARDRAIL	EACH	3	3	0	0	0
X0322932	SILICONE JOINT SEALER 1.5"	FOOT	33	0	0	33	0
X0323830	DRAINAGE SCUPPERS, DS-11	EACH	2	0	0	0	2
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	1026	0	0	0	1026
X0324959	REMOVE AND REINSTALL STEEL BRIDGE RAIL, TYPE S-1	FOOT	173	0	0	173	0
X3550500	BITUMINOUS BASE COURSE SUPERPAVE 8"	SQ YD	112	0	112	0	0
X3550700	BITUMINOUS BASE COURSE SUPERPAVE 10"	SQ YD	2325	2325	0	0	0
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX C, N50	TON	496	487	9	0	0
X4066614	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50	TON	1662	1662	0	0	0

* SPECIALTY ITEMS

Rev.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES
FAP 777 (IL RTE. 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT.
HORIZ.
DATE
DRAWN BY
CHECKED BY

PLOT DATE = 1/12/2006
FILE NAME = c:\projects\sd5369\sht000.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = slaglert

CONTRACT NO. 92667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	101(B-1,BR-2)	MONTGOMERY	104	3
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

LOCATION OF WORK
IL 185, T.R. 318
± 1.4 MILES SOUTWEST OF COFFEEN
MONTGOMERY COUNTY

F BRF

SUMMARY OF QUANTITIES

PAYCODE	PAY ITEM DESCRIPTION	UNITS	TOTAL QUANTITY	RURAL			
				ROADWAY		STRUCTURES	
				IL 185	TR 318	BAYOU CREEK	SHOAL CREEK
						068-0027	068-0505 PR
				CONSTRUCTION TYPE CODE			
				I000-2A		SFTY-2A	X071-2A
				80% FED / 20% STATE		80% FED / 20% STATE	80% FED / 20% STATE
X4080020	INCIDENTAL BITUMINOUS SURFACING, SUPERPAVE, N50	TON	15	15	0	0	0
X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION LOCATION 1	EACH	1	0	0	0	1
X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION LOCATION 2	EACH	1	0	0	0	1
X6330103	REMOVE AND RE-ERECT TRAFF BARR TERMINAL, TY 1, SPECIAL (TANGENT)	EACH	4	4	0	0	0
X7015000	CHANGEABLE MESSAGE SIGN	CAL MO	8	8	0	0	0
X7050167	TEMPORARY TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4	4			
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1	0	0	0
Z0002600	BAR SPLICERS	EACH	685	0	0	42	641
Z0003700	BEARING PAD ADJUSTMENT	EACH	22	0	0	22	0
Δ Z0030250	IMPACT ATTENTUATOR, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3	EACH	4	4	0	0	0
Δ Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW) TEST LEVEL 3	EACH	2	2	0	0	0
Δ Z0030350	IMPACT ATTENUATOR, RELOCATE (NON-REDIRECTIVE) TEST LEVEL 3	EACH	4	4	0	0	0
Z0032700	KEYWAY REPAIR	FOOT	116	0	0	116	0
* Z0065000	SETTING PILES IN ROCK	EACH	12	0	0	0	12

Δ SFTY-3N

* SPECIALTY ITEMS

REVISIONS	
NAME	DATE

Rev.

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES
FAP 777 (IL RTE. 185)
SECTION 101(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

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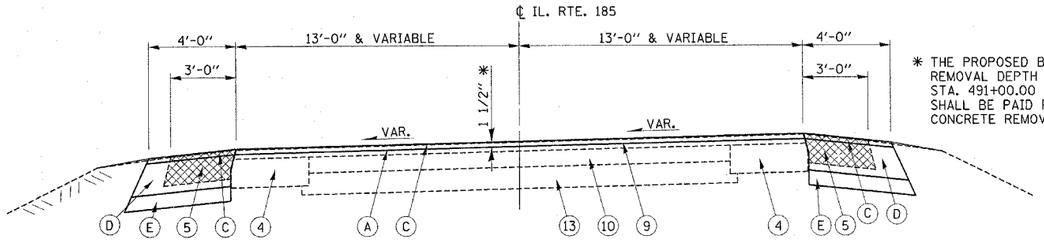
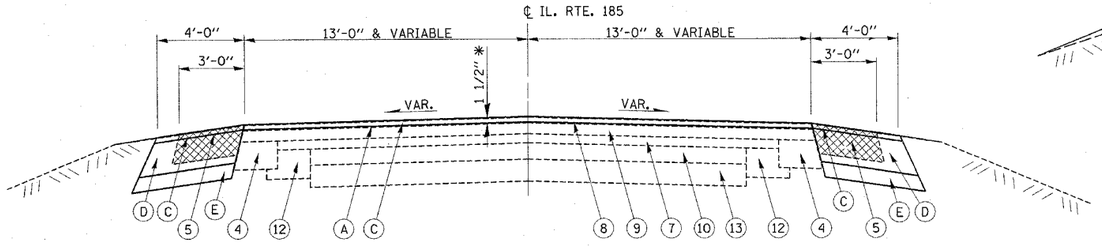
CONTRACT# 92667

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	9
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

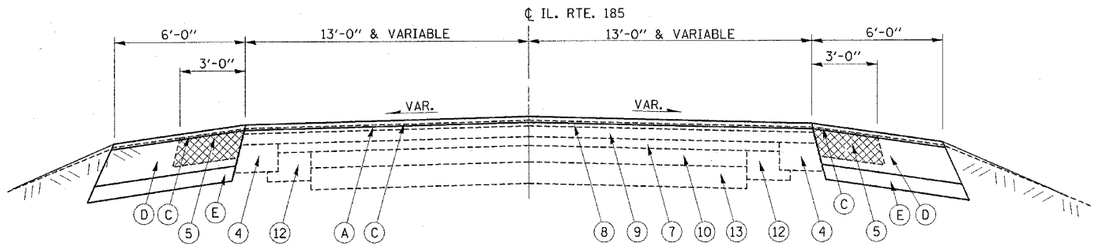


* THE PROPOSED BITUMINOUS CONCRETE REMOVAL DEPTH OF 1 1/2" FROM STA. 491+00.00 TO STA. 492+54.34 SHALL BE PAID FOR AS "BITUMINOUS CONCRETE REMOVAL, VARIABLE DEPTH".

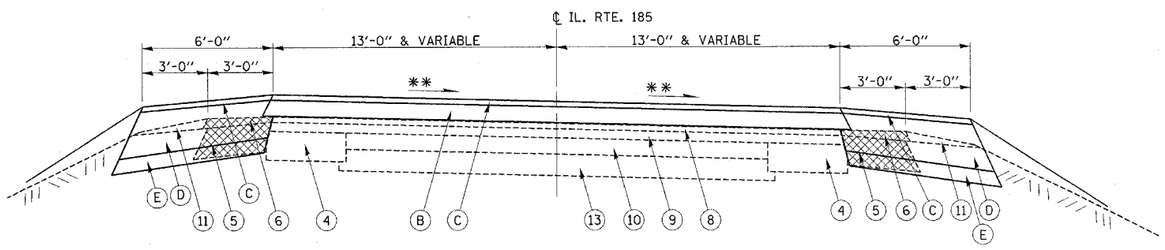
TYPICAL SECTION #1
STA. 491+.00 TO STA. 491+54.00



TYPICAL SECTION #2
STA. 491+54.00 TO STA. 492+54.34
BRIDGE OMMISSION, BAYOU CREEK:
STA. 492+54.34 TO STA. 492+96.65

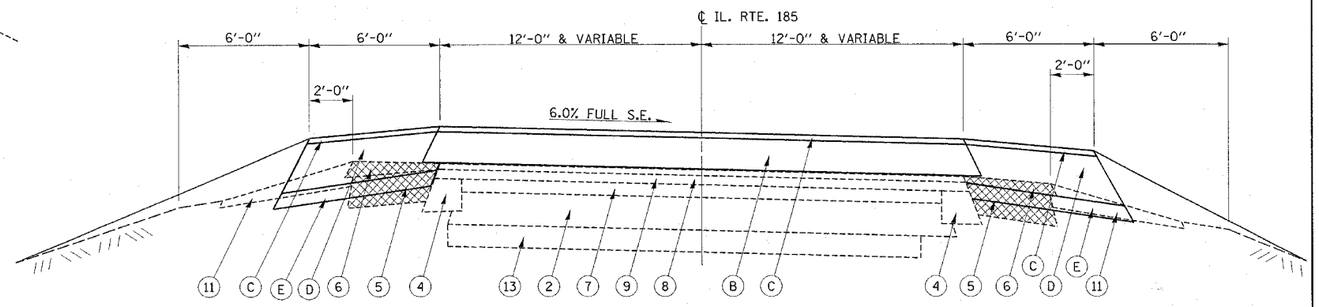


TYPICAL SECTION #3
STA. 492+96.65 to STA. 494+36.00



* - FULL S.E. AT 6.0%

TYPICAL SECTION #4
STA. 494+36.00 TO STA. 498+09.00



TYPICAL SECTION # 5
STA. 498+09.00 TO STA. 499+35.49

NOTE:
EXISTING PAVEMENT FROM STA. 499+35.49 TO STA. 499+59.05 IS TO BE REMOVED

LEGEND

(1) EXISTING 20' BITUMINOUS CONCRETE FLEXIBLE PAVEMENT
(2) EXISTING STABILIZED BASE COURSE, VARIABLE: 0" TO 9"
(3) EXISTING P.C.C. BASE COURSE (APPROACH PAVEMENT; (16½" - 10½" - 16½")
(4) EXISTING BITUMINOUS CONCRETE BASE COURSE WIDENING, 9"
(5) EXISTING BITUMINOUS CONCRETE SHOULDER, 8"
(6) EXISTING BITUMINOUS CONCRETE SHOULDER, VAR. DEPTH
(7) EXISTING BITUMINOUS CONCRETE SURFACE, 3"
(8) EXISTING BITUMINOUS CONCRETE SURFACE, 1½" & VAR.
(9) EXISTING BITUMINOUS CONCRETE SURFACE, 2½" & VAR.
(10) EXISTING BITUMINOUS CONCRETE SURFACE, 4½" & VAR.
(11) EXISTING AGGREGATE SHOULDER, TYPE B
(12) EXISTING BITUMINOUS BASE COURSE, 8"
(13) EXISTING AGGREGATE BASE, 6"

(A) PROPOSED BITUMINOUS SURFACE REMOVAL, VARIABLE DEPTH
(B) PROPOSED BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, VARIABLE DEPTH
(C) PROPOSED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, 1 1/2"
(D) PROPOSED BITUMINOUS BASE COURSE, SUPERPAVE, 10"
(E) PROPOSED SUBBASE GRANULAR MATERIAL, 4"

NOTES:

THE EXISTING PAVEMENT WIDTH VARIES THROUGHOUT THE PROJECT. THE PROPOSED RESURFACING IMPROVEMENTS SHALL MATCH THE EXISTING PAVEMENT WIDTH.

THESE TYPICAL CROSS SECTIONS DEPICT THE FINAL SECTIONAL VIEWS FOLLOWING THE COMPLETION OF ALL CONSTRUCTION SEQUENCING.

FOR PROPOSED BITUMINOUS SHOULDER REMOVAL, BITUMINOUS BASE COURSE 10", AND SUBBASE GRANULAR MATERIAL 4" LOCATIONS, SEE THE SCHEDULE OF QUANTITIES AND TRAFFIC CONTROL SHEETS.

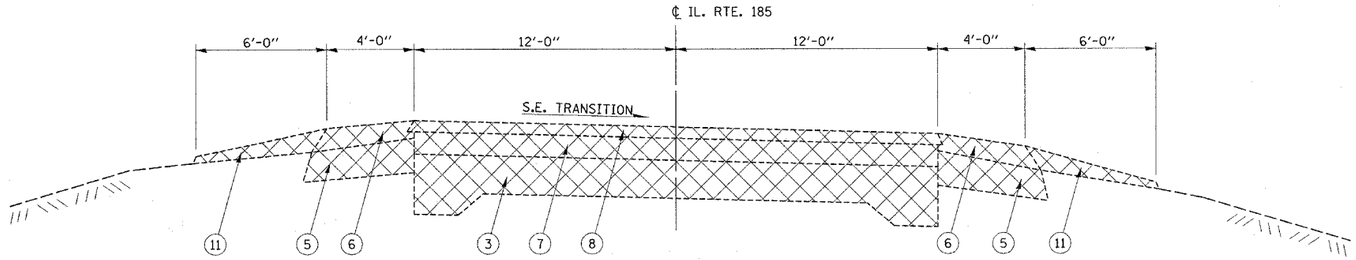
SHEET 1 OF 3

ROADWAY TYPICAL SECTIONS
FAP 777 (IL RTE. 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

DRAWN BY RTS

CONTRACT# 92667

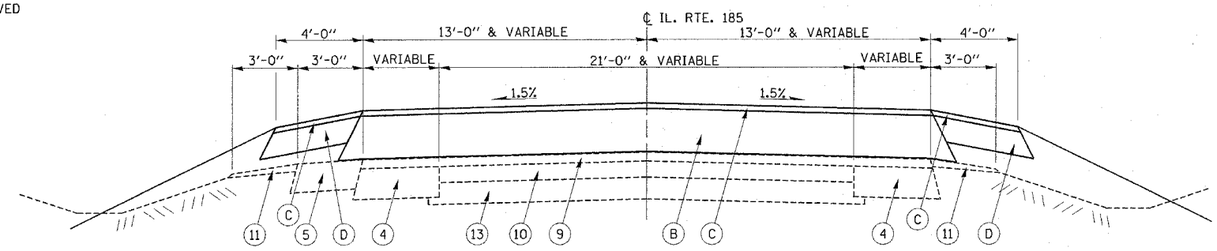
FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	10
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



TYPICAL SECTION # 6

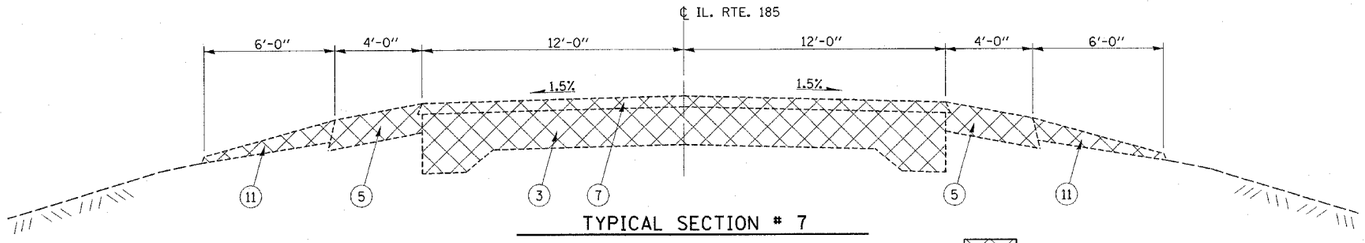
WEST BRIDGE APPROACH PAVEMENT
(EAST FORK OF SHOAL CREEK)
TO BE REMOVED
STA. 499+59.05 TO STA. 499+79.05

= TO BE REMOVED



TYPICAL SECTION # 9

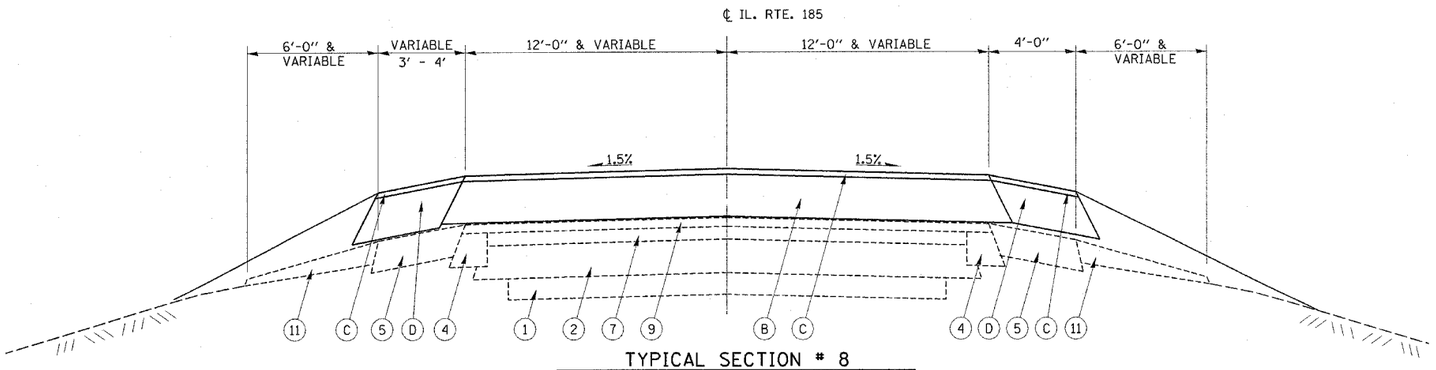
STA. 502+80.00 TO STA. 505+50.00



TYPICAL SECTION # 7

EAST BRIDGE APPROACH PAVEMENT
(EAST FORK OF SHOAL CREEK)
STA. 501+09.80 TO STA. 501+29.80

= TO BE REMOVED



TYPICAL SECTION # 8

STA. 501+29.80 TO STA. 502+80.00

NOTE:
EXISTING PAVEMENT FROM
STA.501+29.80 TO STA. 501+52.54
IS TO BE REMOVED

LEGEND

1. EXISTING 20' BITUMINOUS CONCRETE FLEXIBLE PAVEMENT
2. EXISTING STABILIZED BASE COURSE, VARIABLE: 0" TO 9"
3. EXISTING P.C.C. BASE COURSE (APPROACH PAVEMENT; (16½" - 10½" - 16½")
4. EXISTING BITUMINOUS CONCRETE BASE COURSE WIDENING, 9"
5. EXISTING BITUMINOUS CONCRETE SHOULDER, 8"
6. EXISTING BITUMINOUS CONCRETE SHOULDER, VAR. DEPTH
7. EXISTING BITUMINOUS CONCRETE SURFACE, 3"
8. EXISTING BITUMINOUS CONCRETE SURFACE, 1½" & VAR.
9. EXISTING BITUMINOUS CONCRETE SURFACE, 2½" & VAR.
10. EXISTING BITUMINOUS CONCRETE SURFACE, 4½" & VAR.
11. EXISTING AGGREGATE SHOULDER, TYPE B
12. EXISTING BITUMINOUS BASE COURSE, 8"
13. EXISTING AGGREGATE BASE, 6"

A. PROPOSED BITUMINOUS SURFACE REMOVAL, VARIABLE DEPTH
B. PROPOSED BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, VARIABLE DEPTH
C. PROPOSED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, 1 1/2"
D. PROPOSED BITUMINOUS BASE COURSE, SUPERPAVE, 10"
E. PROPOSED SUBBASE GRANULAR MATERIAL, 4"

NOTES:

THE EXISTING PAVEMENT WIDTH VARIES THROUGHOUT THE PROJECT. THE PROPOSED RESURFACING IMPROVEMENTS SHALL MATCH THE EXISTING PAVEMENT WIDTH.

THESE TYPICAL CROSS SECTIONS DEPICT THE FINAL SECTIONAL VIEWS FOLLOWING THE COMPLETION OF ALL CONSTRUCTION SEQUENCING.

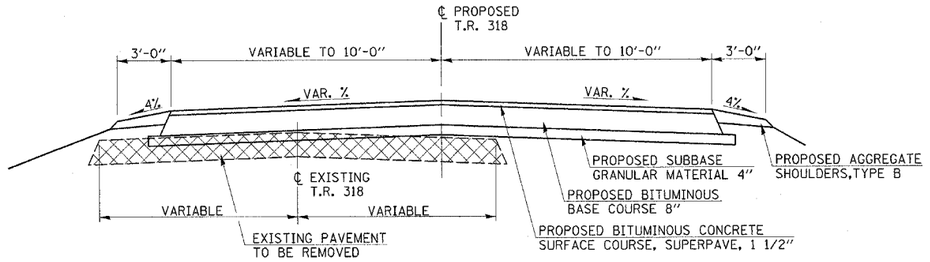
FOR PROPOSED BITUMINOUS SHOULDER REMOVAL, BITUMINOUS BASE COURSE 10", AND SUBBASE GRANULAR MATERIAL 4" LOCATIONS, SEE THE SCHEDULE OF QUANTITIES AND TRAFFIC CONTROL SHEETS.

DRAWN BY RTS

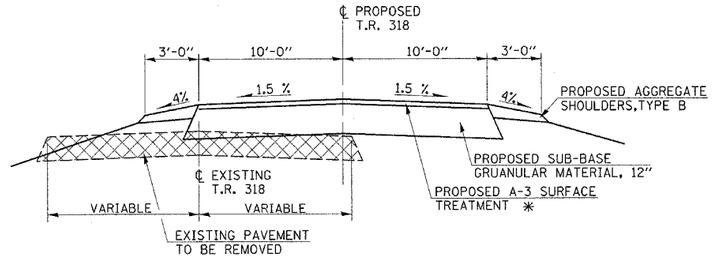
ROADWAY TYPICAL SECTIONS
FAP 777 (IL RTE. 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

CONTRACT# 92667

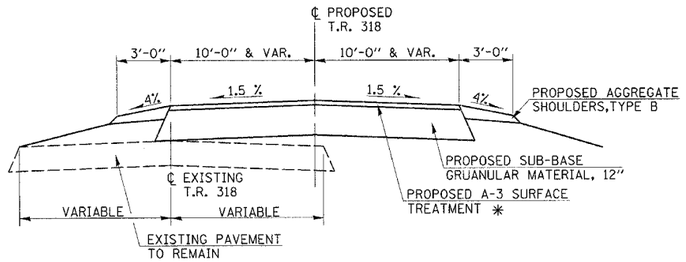
FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	11
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



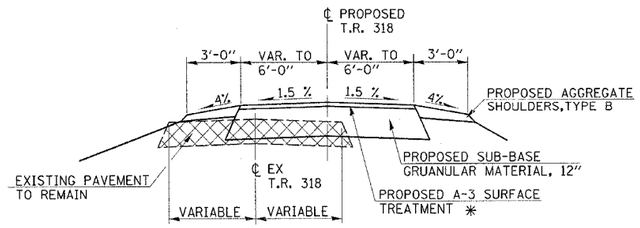
STA. 10+12.00 TO STA. 10+43.22



STA. 10+43.22 TO STA. 10+75.00



STA. 10+75.00 TO STA. 12+50.00



STA. 12+50.00 TO STA. 13+50.00

* — FOR DESCRIPTION OF A-3 SURFACE APPLICATION, REFER TO STANDARD SPECIFICATIONS, ARTICLE 403.01.

FOR BASIS OF PAYMENT FOR A-3 SURFACE TREATMENT, REFER TO STANDARD SPECIFICATIONS, ARTICLE 403.16.

DRAWN BY RTS

SHEET 3 OF 3

ROADWAY TYPICAL SECTIONS
TOWNSHIP ROAD 318
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

PLOT DATE = 1/9/2006
FILE NAME = c:\projects\ed553694\typicals.m32
PLOT SCALE = 20.0000 '/ IN.
USER NAME = sleglert

EARTHWORK SCHEDULE, IL RTE. 185

LOCATION	STAGE 0 EXC (CU YD)	STAGE 0 EMB (CU YD)	STAGE 0 BALANCE * (CU YD)	STAGE 1 EXC (CU YD)	STAGE 1 EMB (CU YD)	STAGE 1 BALANCE * (CU YD)	STAGE 2 EXC (CU YD)	STAGE 2 EMB (CU YD)	STAGE 2 BALANCE * (CU YD)	STAGE 3 EXC (CU YD)	STAGE 3 EMB (CU YD)	STAGE 3 BALANCE * (CU YD)	STAGE 4 EXC (CU YD)	STAGE 4 EMB (CU YD)	STAGE 4 BALANCE * (CU YD)	TOTALS EXCAVATION (CU YD)	TOTALS EMBANKMENT (CU YD)	TOTALS BALANCE (CU YD)
MAINLINE (IL 185)																		
489+00.00																		
				0.0	0.0	0.0	0.0	0.0	0.0	15.0	0.0	15.0	15.4	4.4	9.8	30.4	4.4	24.8
490+00.00																		
				0.0	0.0	0.0	0.0	0.0	0.0	13.3	0.0	13.3	13.9	6.1	6.3	27.2	6.1	19.6
491+00.00																		
				0.0	0.0	0.0	0.0	0.0	0.0	13.7	0.0	13.7	12.0	6.9	3.5	25.7	6.9	17.2
492+00.00																		
				0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0	5.9	6.3	2.6	3.1	12.2	2.6	9.0
492+50.00																		
OMMISSION FOR BAYOU CREEK																		
				0.0	0.0	0.0	0.0	0.0	0.0									
493+00.00																		
				0.0	0.0	0.0	0.0	0.0	0.0	6.4	28.2	-23.4	5.0	34.9	-31.2	11.4	63.1	-54.6
493+50.00																		
				0.0	0.0	0.0	0.0	0.0	0.0	6.1	28.5	-23.9	2.8	34.9	-32.8	8.9	63.4	-56.8
494+00.00																		
				0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.1	0.6	0.0	0.0	0.0	0.7	0.1	0.6
494+06.30																		
	0.0	13.7	-13.7	5.9	31.8	-27.3	0.0	0.0	0.0	5.6	0.7	4.7	0.0	0.0	0.0	11.5	46.2	-37.6
495+00.00																		
	17.6	65.4	-52.2	11.5	81.7	-73.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.1	147.0	-125.2
496+00.00																		
	18.7	75.9	-61.9	6.1	67.2	-62.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.8	143.1	-124.5
497+00.00																		
	20.7	73.3	-57.8	1.9	134.1	-132.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	207.4	-207.4
499+00.00																		
	0.0	7.5	-7.5	0.0	31.2	-31.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.7	-38.7
499+65.49																		
OMMISSION FOR SHOAL CREEK																		
502+00.00																		
	26.5	207.0	-187.2	0.0	35.9	-35.9	207.4	183.1	-27.5	0.0	0.0	0.0	0.0	0.0	0.0	233.9	426.0	-250.6
503+00.00																		
	149.6	250.9	-138.7	1.9	20.2	-18.8	254.6	198.7	-7.7	0.0	0.0	0.0	0.0	0.0	0.0	406.1	469.8	-165.2
504+00.00																		
	203.0	62.2	125.2	1.9	1.9	-0.5	73.5	133.0	-77.8	0.0	0.0	0.0	0.0	0.0	0.0	278.3	197.0	32.0
505+00.00																		
	108.9	42.0	56.3	0.0	0.0	0.0	48.9	62.4	-25.7	0.0	0.0	0.0	0.0	0.0	0.0	157.8	104.4	27.2
506+00.00																		
	66.7	26.5	33.6	0.0	0.0	0.0	22.6	30.0	-13.1	0.0	0.0	0.0	0.0	0.0	0.0	89.3	56.5	18.7
507+00.00																		
IL 185 TOTALS (CUBIC YARDS)	612	827	-884	29	404	-382	607	607	-152	67	58	6	55	90	-41	1347.3	1982.9	-911.5

* A 25% SHRINKAGE FACTOR IS REFLECTED IN THE BALANCE FOR THE VOLUME OF EXCAVATION AND EMBANKEMENT.

SCHEDULE CONTINUES ON NEXT SHEET

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

FAP 777 (IL RTE. 185)

SECTION 10(B-1, BR-2)

MONTGOMERY COUNTY

SCALE: VERT. HORIZ. DRAWN BY

DATE CHECKED BY

PLOT DATE = 1/23/2006
FILE NAME = [illegible]
PLOT SCALE = 50.0000 '/ IN.
USER NAME = [illegible]

CONTRACT NO. 92667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1,BR-2)	MONTGOMERY	104	13
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. 9	ILLINOIS	FED. AID PROJECT		

EARTHWORK SCHEDULE, TOWNSHIP ROAD 318

LOCATION	TOTALS EXC (CU YD)	EMB (CU YD)	BALANCE * (CU YD)
TR318			
10+25.00			
	24.3	28.1	-9.9
10+50.00			
	13.7	76.8	-66.5
10+75.00			
	7.4	102.5	-96.9
11+00.00			
	3.1	113.1	-110.8
11+25.00			
	3.9	119.3	-116.4
11+50.00			
	16.2	100.8	-88.6
11+75.00			
	16.9	77.4	-64.7
12+00.00			
	5.3	54.0	-50.0
12+25.00			
	6.7	25.1	-20.1
12+50.00			
	7.9	8.1	-2.2
12+75.00			
	10.0	1.9	7.6
13+00.00			
	16.7	0.3	16.4
13+25.00			
	22.1	0.0	22.1
13+50.00			
T.R. 318 TOTALS (CUBIC YARDS)	154	707	-580

GRAND TOTALS FOR PROJECT

PROJECT TOTALS		
EXCAVATION (CU YD)	EMBANKMENT (CU YD)	BALANCE * (CU YD)
1502	2690	-1492

* A 25% SHRINKAGE FACTOR IS REFLECTED IN THE BALANCE FOR THE VOLUME OF EXCAVATION AND EMBANKEMENT.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

FAP 777 (IL RTE. 185)

SECTION 10(B-1, BR-2)

MONTGOMERY COUNTY

SCALE: VERT. HORIZ. DRAWN BY

DATE CHECKED BY

PLOT DATE = 1/23/2006
FILE NAME = c:\projects\ed53694\shtsoqu.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = slaglert

BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH)

LOCATION			LENGTH (FT)	WIDTH (FT)	AREA (SQ YD)
IL 185					
491+00.00	TO	492+49.95	149.95	26 (AVG.)	433.19
492+92.13	TO	497+62.15	470.02	26 (AVG.)	1357.84
				TOTAL = 1791.03 SQ YD	

PAVEMENT REMOVAL

LOCATION			LENGTH (FT)	WIDTH (FT)	AREA (SQ YD)
IL 185					
499+35.49	TO	499+78.50	43.01	25 (AVG.)	119.47
501+09.64	TO	501+52.61	42.97	25 (AVG.)	119.36
T.R. 318					
10+12.00	TO	10+75.00	63.00	IRREGULAR	184.00
12+50.00	TO	13+50.00	100.00	IRREGULAR	136.00
				TOTAL = 558.83 SQ YD	

BITUMINOUS SURFACE REMOVAL, COMPLETE

STA	TO	STA	AREA (SQ YD)
BAYOU CREEK STRUCTURE			
492+49.95		492+92.13	155.0
		TOTAL =	155.0 SQ YD

BITUMINOUS CONCRETE SHOULDER REMOVAL

STA	TO	STA	OFFSET	LENGTH	AREA (SQ YD)	WIDTH OF REMOVAL
IL 185 PRELIMINARY STAGE						
490+74.00		491+50.00	LT	76′	32.2	
491+50.00		492+48.12	LT	98.14′	36.3	
489+90.50		491+50.00	RT	159.50′	55.3	
491+50.00		492+48.15	RT	98.15′	26.5	
492+93.88		493+80.00	LT	86.12′	31.1	
492+93.88		494+20.00	RT	126.12′	49.6	
494+33.00		495+34.00	LT	101.00′	33.5	
497+39.00		499+00.00	RT	137.00′	56.3	
498+09.00		499+00.00	LT	91.00′	22.0	
499+00.00		499+78.50	LT	78.50′	19.8	
499+00.00		499+78.50	RT	78.50′	26.9	
501+09.75		501+77.21	LT	67.46′	65.7	
501+09.75		502+80.00	RT	170.25′	69.2	
502+22.50		503+46.50	LT	124.00′	49.6	
IL 185 STAGE II						WIDTH OF REMOVAL
501+24.68		501+54.68	LT	30.00′	10.00	3′ AVG
501+54.68		504+40.00	LT	285.32′	126.81	4′
504+40.00		505+00.00	LT	60.00′	20.00	3′ AVG
501+09.60		508+70.00	RT	760.40′	337.96	4′
				TOTAL =	1068.77SQ YD	

BITUMINOUS MATERIALS (PRIME COAT) FOR IL 185

BITUMINOUS MATERIALS (PRIME COAT) FOR IL 185	IL 185 AREA SQ YD	IL 185 TONS
UNDER BITUMINOUS SURFACE COURSE	3468.7	1.3
UNDER BIT BIND CRSE, VAR DEPTH	2369.9	0.9
TOTAL	5838.6	2.2

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

FAP 777 (IL RTE. 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT. HORIZ.
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FILE NAME = c:\projects\ed53694\shtsoq.dgn
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SUBBASE GRANULAR MATERIAL, TYPE A 12"

STA	TO	STA	LENGTH (FT)	WIDTH (FT)	DEPTH (")	AREA (SQ YD)
10+43.22		12+00.00	156.78	20	12	348.4
12+00.00		12+75.00	75.00	20 to 12 (AVG.=16)	12	133.3
12+75.00		13+50.00	75.00	12	12	100.0
					TOTAL =	581.7 SQ YD

SUBBASE GRANULAR MATERIAL, TYPE A 4"

STA	TO	STA	LENGTH (FT)	OFFSET	WIDTH (FT)	DEPTH (")	AREA (SQ YD)
IL 185							
488+53.00		492+48.15	395.15	LT	4	4	175.6
492+93.88		493+80.00	86.12	LT	4	4	38.3
494+50.00		499+37.00	487.00	LT	6	4	324.7
501+24.68		501+54.68	30.00	LT	6 AVG	4	20.0
501+54.68		504+40.00	285.32	LT	8	4	253.6
504+40.00		505+00.00	60.00	LT	6 AVG	4	40.0
505+00.00		509+35.00	435.00	LT	4	4	193.3
509+35.00		509+71.00	36.00	LT	2.5 AVG	4	10.0
488+74.00		492+48.15	374.15	RT	4	4	166.3
492+93.88		499+35.00	641.12	RT	6	4	427.4
501+09.60		508+70.00	760.40	RT	8	4	675.9
TR 318							
10+12.00		10+43.22	31.22	UNDER PVMT	VARIES	4	112.0
						TOTAL =	2437.1 SQ YD

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

FAP 777 (IL RTE. 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT. HORIZ.
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BITUMINOUS CONCRETE BINDER COURSE SUPERPAVE, IL-19.0, N50

STATION	TO	STATION	OFFSET	LENGTH (FT)	T (FT)*	PAY WIDTH (FT)	TONS
IL 185 WEST OF SHOAL CREEK							
497+13.50		497+50.00	LT Lane	36.5	0.11	12.0	3.4
497+50.00		497+75.00	LT Lane	25.0	0.31	12.2	7.1
497+75.00		498+00.00	LT Lane	25.0	0.51	12.4	11.8
498+00.00		498+25.00	LT Lane	25.0	0.68	12.7	16.1
498+25.00		498+50.00	LT Lane	25.0	0.82	13.1	19.9
498+50.00		498+75.00	LT Lane	25.0	0.94	13.4	23.5
498+75.00		499+00.00	LT Lane	25.0	1.05	13.8	26.9
499+00.00		499+25.00	LT Lane	25.0	1.13	14.2	30.0
499+25.00		499+35.49	LT Lane	10.5	1.18	14.6	13.4
IL 185 EAST OF SHOAL CREEK							
501+52.54		502+00.00	LT Lane	47.5	1.78	13.9	87.5
502+00.00		502+50.00	LT Lane	50.0	1.93	14.3	103.0
502+50.00		503+00.00	LT Lane	50.0	2.00	14.6	109.0
503+00.00		503+50.00	LT Lane	50.0	1.88	14.6	102.6
503+50.00		504+00.00	LT Lane	50.0	1.41	14.2	74.8
504+00.00		504+50.00	LT Lane	50.0	0.80	13.6	40.5
504+50.00		505+00.00	LT Lane	50.0	0.34	13.0	16.3
505+00.00		505+47.75	LT Lane	47.8	0.04	12.8	1.6
IL 185 WEST OF SHOAL CREEK							
497+13.50		497+50.00	RT Lane	36.5	0.11	14.4	4.1
497+50.00		497+75.00	RT Lane	25.0	0.31	14.4	8.3
497+75.00		498+00.00	RT Lane	25.0	0.51	14.4	13.7
498+00.00		498+25.00	RT Lane	25.0	0.68	14.3	18.2
498+25.00		498+50.00	RT Lane	25.0	0.82	14.2	21.6
498+50.00		498+75.00	RT Lane	25.0	0.94	14.1	24.6
498+75.00		499+00.00	RT Lane	25.0	1.05	13.9	27.2
499+00.00		499+25.00	RT Lane	25.0	1.13	13.7	29.0
499+25.00		499+35.49	RT Lane	10.5	1.18	13.6	12.5

* = AVERAGE THICKNESS

CONTINUE BINDER COURSE
SCHEDULE ON NEXT SHEET

CONTRACT NO. 92667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1,BR-2)	MONTGOMERY	124	17
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. 8	ILLINOIS	FED. AID PROJECT		

BITUMINOUS CONCRETE BINDER COURSE SUPERPAVE, IL-19.0, N50

STATION	TO	STATION	OFFSET	LENGTH (FT)	T (FT)*	PAY WIDTH (FT)	TONS
MAINLINE EAST OF SHOAL CREEK							
501+52.54		502+00.00	RT Lane	47.5	1.78	12.1	76.1
502+00.00		502+50.00	RT Lane	50.0	1.93	12.4	89.3
502+50.00		503+00.00	RT Lane	50.0	2.00	12.8	95.4
503+00.00		503+50.00	RT Lane	50.0	1.88	13.1	91.7
503+50.00		504+00.00	RT Lane	50.0	1.41	13.2	69.8
504+00.00		504+50.00	RT Lane	50.0	0.80	13.3	39.9
504+50.00		505+00.00	RT Lane	50.0	0.34	13.4	16.8
505+00.00		505+47.75	RT Lane	47.8	0.04	13.3	1.7
RAISING MAINLINE PROFILE BETWEEN BAYOU AND SHOAL CREEKS							
495+13.06		497+13.50	RT LANE	200.4	0.45	13.8	93.0
497+13.50		498+79.20	RT LANE	165.7	0.45	13.8	76.9
495+13.06		497+13.50	LT LANE	200.4	0.45	13.4	90.0
497+13.50		498+79.20	LT LANE	165.7	0.45	13.4	74.4
						TOTAL =	1661.7 TONS

* = AVERAGE THICKNESS

A-3 SURFACE							BIT MATLS (PRIME CT)	BIT MATLS (CVR AND SEAL CT)	BIT MATLS (CVR AGG)	BIT MATLS (SEAL AGG)
STA	TO	STA	OFFSET	LENGTH (FT)	WIDTH (FT)	AREA (SQ YD)	TONS	TONS	TONS	TONS
TR 318										
10+43.22		12+00.00		156.78	20	348.4	0.5	1.5	7.0	3.5
12+00.00		12+75.00		75.00	16	133.3	0.2	0.6	2.7	1.3
12+75.00		13+50.00		75.00	12	100.0	0.1	0.4	2.0	1.0
						TOTALS	0.8	2.5	11.6	5.8

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

FAP 777 (IL RTE. 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT. HORIZ.
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CONTRACT NO. 92667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
III	10(B-1,BR-2)	MONTGOMERY	104	18
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

BITUMINOUS BASE COURSE SUPERPAVE 10"

STA	TO	STA	LENGTH (FT)	OFFSET	WIDTH (FT)	DEPTH (")	AREA (SQ YD)
IL 185							
488+53.00		492+48.15	395.15	LT	4.83	10	212.1
492+93.88		493+80.00	86.12	LT	4.83	10	46.2
494+50.00		499+37.00	487.00	LT	6.83	10	369.6
501+24.68		501+54.68	30.00	LT	6.83 AVG	10	22.8
501+54.68		504+40.00	285.32	LT	8.83	10	279.9
504+40.00		505+00.00	60.00	LT	6.83 AVG	10	45.5
505+00.00		509+35.00	435.00	LT	4.83	10	233.5
509+35.00		509+71.00	36.00	LT	3.33 AVG	10	13.2
488+74.00		492+48.15	374.15	RT	4.83	10	200.8
492+93.88		499+35.00	641.12	RT	6.83	10	486.5
501+09.60		508+70.00	760.40	RT	8.83	10	746.0
						TOTAL =	2745.3 SQ YD

BITUMINOUS BASE COURSE SUPERPAVE 8"

STA	TO	STA	AREA (SQ FT)	OFFSET	WIDTH (FT)	DEPTH (")	AREA (SQ YD)
IL 318							
10+12.00		10+43.22	1008	N/A	VARIES	8	112.0
						TOTAL =	112.0 SQ YD

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

FAP 777 (IL RTE. 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT. HORIZ.
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CONTRACT NO. 92667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1,BR-2)	MONTGOMERY	104	12
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. 8	ILLINOIS	FED. AID PROJECT		

BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX C, N50

STA	TO	STA		LENGTH (FT)	WIDTH (FT)	T (")	AREA (SQ YD)
TR 318							
10+12.00		10+43.22		31.22	VARIES	1.5	112.0
IL 185							
491+00.00		492+00.00		100.00	25.62	1.5	199.3
492+00.00		492+48.00		48.00	25.42	1.5	135.6
492+94.00		493+50.00		56.00	25.81	1.5	160.6
493+50.00		494+00.00		50.00	25.98	1.5	144.3
494+00.00		494+06.30		6.30	25.90	1.5	18.1
494+06.30		495+00.00		93.70	26.30	1.5	273.8
495+00.00		496+00.00		100.00	26.66	1.5	296.2
496+00.00		497+00.00		100.00	26.55	1.5	295.0
497+00.00		498+00.00		100.00	26.33	1.5	292.6
498+00.00		499+00.00		48.00	26.49	1.5	294.3
499+00.00		499+79.14		79.14	26.85	1.5	236.1
501+52.54		502+00.00		47.46	24.25	1.5	127.7
502+00.00		503+00.00		100.00	24.56	1.5	272.8
503+00.00		504+00.00		100.00	25.91	1.5	287.9
504+00.00		505+00.00		100.00	26.07	1.5	289.7
505+00.00		505+50.00		50.00	26.05	1.5	144.7
IL 185 BITUMINOUS SHOULDERS							
488+53.00		492+48.15	LT	395.15	4	1.5	175.6
492+93.88		493+80.00	LT	86.12	4	1.5	38.3
494+50.00		499+37.00	LT	487.00	6	1.5	324.7
501+24.68		501+54.68	LT	30.00	6 AVG	1.5	20.0
501+54.68		504+40.00	LT	285.32	8	1.5	253.6
504+40.00		505+00.00	LT	60.00	6 AVG	1.5	40.0
505+00.00		509+35.00	LT	435.00	4	1.5	193.3
509+35.00		509+71.00	LT	36.00	2.5 AVG	1.5	10.0
488+74.00		492+48.15	RT	374.15	4	1.5	166.3
492+93.88		499+35.00	RT	641.12	6	1.5	427.4
501+09.60		508+70.00	RT	760.40	8	1.5	675.9
						TOTAL =	5905.8 SQ YD
							496.1 TONS

BITUMINOUS CONCRETE SURFACE COURSE BREAKDOWN BY LOCATIONS

LOCATION	TOTAL AREA (SQ YD)	TOTAL TONS
TR 318	112.0	9.4
IL 185	3468.7	291.4
IL 185 BIT. SHLDRS.	2325.1	195.3

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

FAP 777 (IL RTE. 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT. HORIZ.
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FILE NAME = c:\projects\ve053694\shtsqu.dgn
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TEMPORARY RUMBLE STRIP

STATION	STAGE
488+10 RT	1 & 2
483+10 RT	1 & 2
478+10 RT	1 & 2
517+36 LT	1 & 2
522+36 LT	1 & 2
527+36 LT	1 & 2
481+69 RT	3 & 4
476+10 RT	1 & 2
471+10 RT	1 & 2
505+11 LT	1 & 2
510+11 LT	1 & 2
515+11 LT	1 & 2
TOTAL =	12

TEMPORARY GUARDRAIL

LOCATION				TEMPORARY STEEL PLATE BEAM GUARD RAIL, TYPE A	TEMPORARY TRAFFIC BARRIER TERMINAL			TERMINAL MARKER - DIRECT APPLIED
STATION	TO	STATION	LT / RT	(FT)	TYPE 5A (EACH)	TYPE 6 (EACH)	TYPE 1 SPECIAL (TANGENT) (EACH)	(EACH)
489+46.85	-	489+96.85	RT				1	1
489+96.85	-	492+13.75	RT	216.9				
492+13.75	-	492+27.00	RT		1			
493+15.00	-	493+28.25	RT		1			
493+28.25	-	493+78.25	RT				1	1
497+53.76	-	498+03.76	RT				1	1
498+03.76	-	499+32.25	RT	128.5				
499+32.25	-	499+63.50	RT			1		
501+20.50	-	501+51.75	RT			1		
501+51.75	-	502+15.50	RT	63.75				
502+15.50	-	502+65.50	RT				1	1
TOTALS:				409.15	2	2	4	4

TRAFFIC CONTROL ITEMS LISTING

ITEM	UNIT	CONSTRUCTION STAGE 1	2	3	4	TOTAL QUANTITY NEEDED (FOR PROJECT)
TEMPORARY CONCRETE BARRIER	FOOT	1110		690		1800 **
RELOCATE TEMPORARY CONCRETE BARRIER			1020		690	1810 **
DOUBLE VERTICAL PANEL *	EACH	23	28	18	22	28 **
DRUM (STEADY BURN LIGHT) *	EACH	25		26		26 **
IMPACT ATTENUATOR, TEMP (NON REDIRECT) TL III	EACH	2				2
IMPACT ATTENUATOR, RELOCATE (NON REDIRECT) TL III	EACH	2	2			6
TYPE III BARRICADE *	EACH	5	2	6	7	7 **
TEMPORARY RUMBLE STRIP	EACH	6		6		12
IMPACT ATTENUATOR, TEMP (FULL REDIRECT, NARROW) TL III	EACH	2	2			2

* THESE QUANTITIES ARE INCLUDED IN LUMP SUM PAY ITEMS FOR TC&P STANDARDS. THEIR INCLUSION IN THE SCHEDULES IS FOR THE CONVENIENCE OF BIDDERS. THEY ARE SUBJECT TO CHANGE DUE TO FIELD CONDITIONS AND JUDGEMENT OF THE RESIDENT ENGINEER.

** THESE QUANTITIES ARE THE MINIMUM NECESSARY FOR TRAFFIC CONTROL IMPLEMENTATION. THESE ITEMS WILL BE RELOCATED FOR EACH STAGE SETUP.

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REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

FAP 777 (IL RTE. 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT. HORIZ.
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CONTRACT NO. 92667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1,BR-2)	MONTGOMERY	____	21
STA. _____	TO STA._____			
FED. ROAD DIST. NO. 8	ILLINOIS	FED. AID PROJECT		

GUARD RAIL

LOCATION				STEEL PLATE BEAM GUARD RAIL, TYPE A	TRAFFIC BARRIER TERMINAL, TYPE 5A	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 2	RADIUS GURADRAIL	TRAF BAR TERMINAL TYPE 1 SPECIAL (TANGENT)	TERMINAL MARKER - DIRECT APPLIED
STATION	TO	STATION	LT / RT	(FT)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)
490+55.00	-	491+05.55	LT						1	1
491+05.55	-	492+13.75	LT	108.2						
492+13.75	-	492+27.00	LT		1					
489+46.85	-	489+96.85	RT						1	1
489+96.85	-	492+13.75	RT	216.9						
492+13.75	-	492+27.00	RT		1					
493+15.00	-	493+28.25	LT		1					
493+28.25	-	493+74.81	LT	46.6						
LOCATION 2 RADIUS			LT				1	1		
493+15.00	-	493+28.25	RT		1					
493+28.25	-	493+81.96	RT	53.7						
LOCATION 1 RADIUS			RT				1	1		
494+42.00	-	494+92.00	LT						1	1
494+92.00	-	495+25.00	LT	33.0						
495+25.00	-	495+75.00	LT							
498+12.94	-	498+62.94	LT						1	1
498+62.94	-	499+36.24	LT	73.3						
499+36.24	-	499+67.50	LT			1				
497+53.76	-	498+03.76	RT						1	1
498+03.76	-	499+32.25	RT	128.5						
499+32.25	-	499+63.50	RT			1				
501+24.50	-	501+55.75	LT			1				
501+55.75	-	501+68.00	LT	12.5						
LOCATION 3 RADIUS	-		LT				1	1		
501+20.50	-	501+51.75	RT			1				
501+51.75	-	502+15.50	RT	63.75						
502+15.50	-	502+65.50	RT						1	1
502+20.00	-	502+70.00	LT						1	1
502+70.00	-	503+19.50	LT	49.50						
503+19.50	-	503+69.50	LT						1	1
	-									
TOTALS:				786	4	4	3	3	9	9

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

FAP 777 (IL RTE. 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT. HORIZ. DRAWN BY

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CONTRACT NO. 92667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
III	10(B-1,BR-2)	MONTGOMERY	104	22
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. 9	ILLINOIS	FED. AID PROJECT		

TRAFFIC CONTROL ITEMS LISTING

ITEM	UNIT	CONSTRUCTION STAGE 1	2	3	4	TOTAL QUANTITY NEEDED (FOR PROJECT)
TEMPORARY CONCRETE BARRIER	FOOT	1110		690		1800 **
RELOCATE TEMPORARY CONCRETE BARRIER			1020		690	1710 **
DOUBLE VERTICAL PANEL *	EACH	23	28	18	22	28 **
DRUM (STEADY BURN LIGHT) *	EACH	25		26		26 **
IMPACT ATTENUATOR, TEMP (NON REDIRECT) TL III	EACH	2		2		4
IMPACT ATTENUATOR, RELOCATE (NON REDIRECT) TL III	EACH		2		2	4
TYPE III BARRICADE *	EACH	5	2	6	7	7 **
TEMPORARY RUMBLE STRIP	EACH	6		6		12

* THESE QUANTITIES ARE INCLUDED IN LUMP SUM PAY ITEMS FOR TC&P STANDARDS. THEIR INCLUSION IN THE SCHEDULES IS FOR THE CONVENIENCE OF BIDDERS. THEY ARE SUBJECT TO CHANGE DUE TO FIELD CONDITIONS AND JUDGEMENT OF THE RESIDENT ENGINEER.

** THESE QUANTITIES ARE THE MINIMUM NECESSARY FOR TRAFFIC CONTROL IMPLEMENTATION. THESE ITEMS WILL BE RELOCATED FOR EACH STAGE SETUP.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

FAP 777 (IL RTE. 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT. HORIZ.
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DATE
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PLOT DATE = 1/24/2006
FILE NAME = c:\projects\ed536941\shtsoq.dgn
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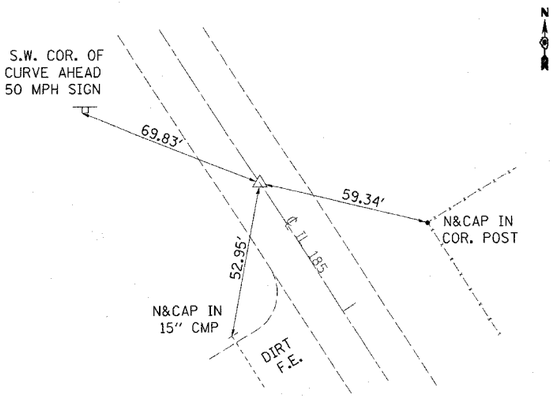
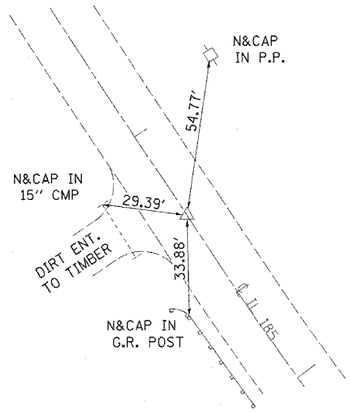
USER NAME = aleglert

CONTRACT 92667

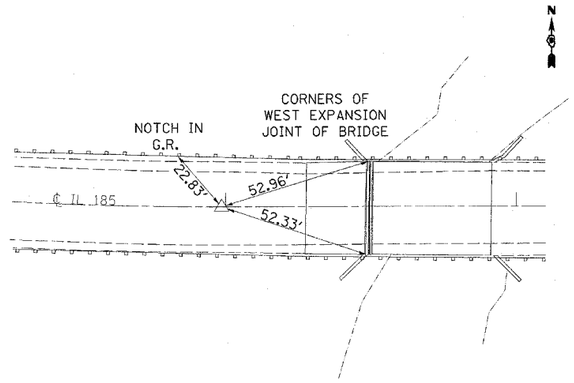
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-4BR-7)	MONTGOMERY	124	23
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



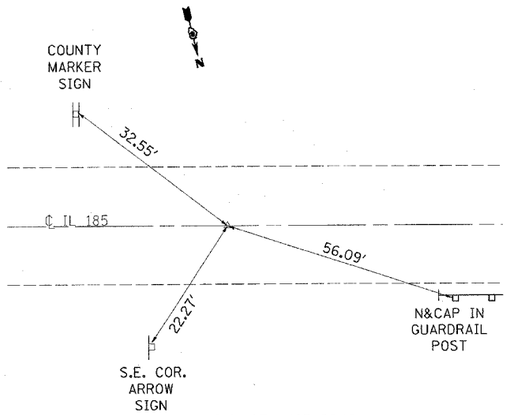
P.O.T. STA 475+47.78
PK NAIL IN CHSLD "X"



P.C. STA 479+33.07
PK NAIL & CAP IN CHSLD "X"



P.T. STA 491+98.56
JUST WEST OF BRIDGE
068-0027
PK NAIL IN CHSLD "X"



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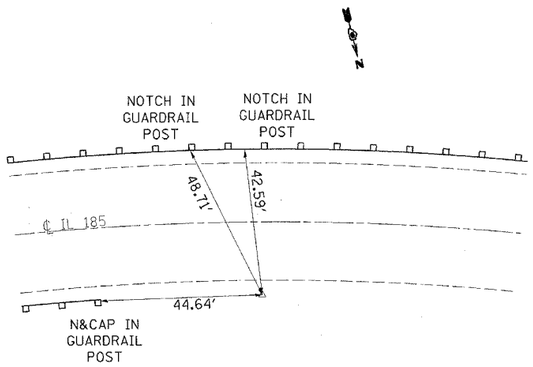
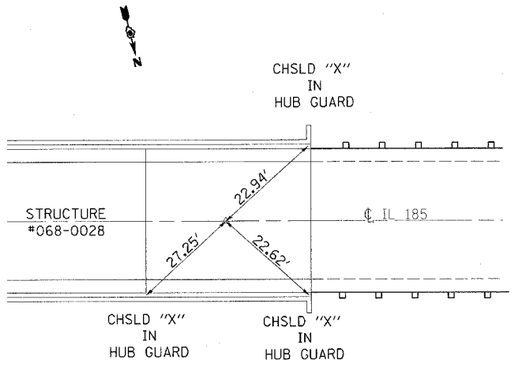
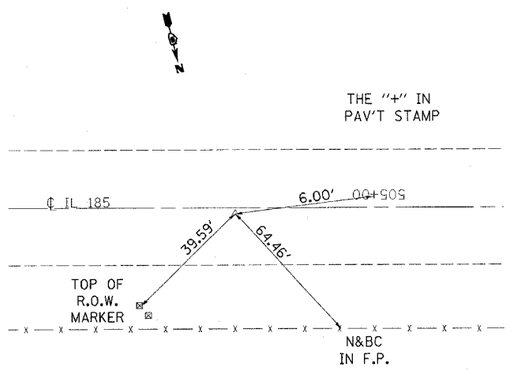


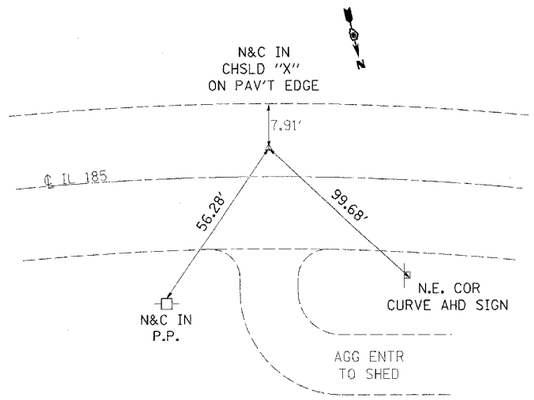
P.I. STA 497+91.17
5 REBAR



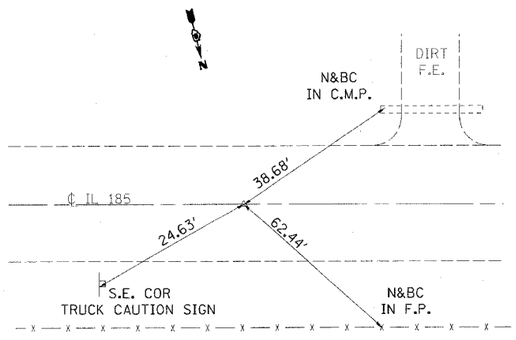
P.T. STA 499+87.14
PK NAIL & CAP IN CHSLD "X"



P.C. STA 505+04.975
PK NAIL & CAP IN CHSLD "X"



P.I. STA 510+71.77
PK & CAP IN CHSLD "X"



P.T. STA 516+38.44
PK NAIL & CAP IN CHSLD "X"

BENCHMARKS:

B.M. #16
□ ON S.W. ABUT. BRIDGE @ 499+79.25 RT
WOODERT SURVEY BOOK #9 PG 16.
STA 499+78.5; 23.4' RT ELEV 561.26 (9/5/01)

B.M. KS#10:
A 60D NAIL IN P.P. @ S.E. COR. OF
INT. OF IL-185 & BATICE RD.
@ STA 509+89.09; 65.56' RT
NAVD'29 ELEV 609.155

B.M. KS#11:
A PK NAIL SET IN TOP OF
GUARD RAIL POST ON NORTH SIDE OF
IL-185 & JUST WEST OF 18TH RD.
@ STA 493+33.31; 16.35' LT
NAVD'29 ELEV 563.714

NOT TO SCALE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CROSS TIES AND BENCHMARKS

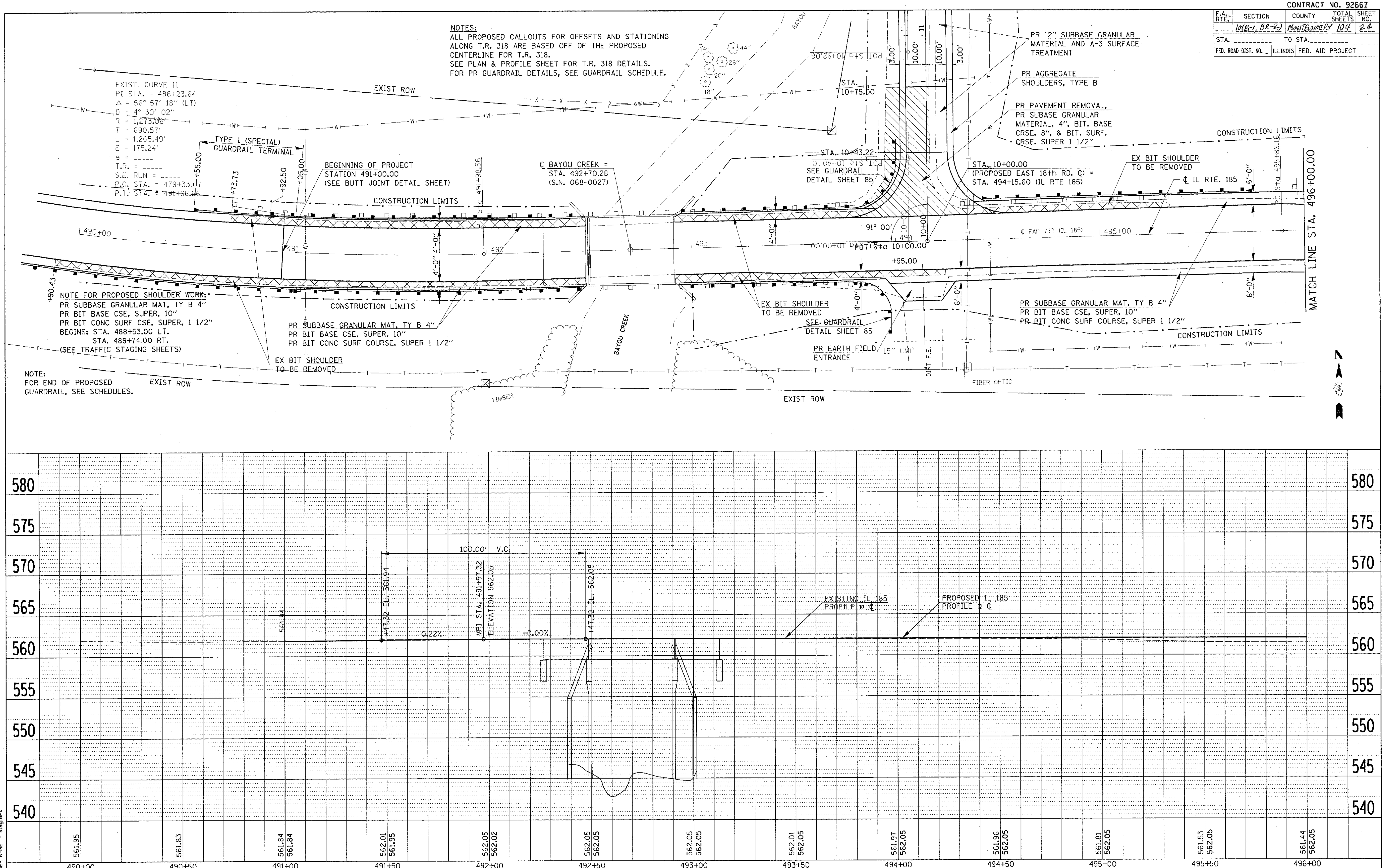
SCALE:
DATE
DRAWN BY : CAD-mg
CHECKED BY

•DGN-SPEC•
•DATE-TIME•
•REF01

D6 PROJECT: ed53694 FILE: xties_bm_.dgn

CONTRACT NO. 92667

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10(B-1, BR-2)	MONTGOMERY	104	24
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLOT DATE = 1/23/2006

PLAN & PROFILE (IL RTE 185)

CONTRACT NO. 92667

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
____	10(R-1, BR-2)	MONTGOMERY	104	25
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

PI STA. = 497+91.17
Δ = 24° 14' 26"
D = 6° 05' 27"
R = 940.67'
T = 202.01'
L = 397.98'
E = 21.45'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 495+89.16
P.T. STA. = 499+87.14

TYPE 1 (SPECIAL) GUARDRAIL TERMINAL

+62.94

CONSTRUCTION LIMITS

EX BIT SHOULDER TO BE REMOVED

6'-0"

MATCH LINE STA. 496+00.00

496 497 498 499 500 501

℄ IL RTE. 185

CONSTRUCTION LIMITS

+53.76

+03.76

TYPE 1 (SPECIAL) GUARDRAIL TERMINAL

PR SUBBASE GRANULAR MAT, TY B 4"
PR BIT BASE CSE, SUPER, 10"
PR BIT CONC SURF COURSE, SUPER 1 1/2"

EXIST ROW

PR TYPE B INLET BOX (STD. 609006)

PR PIPE DRAIN 12" X 35' (LENGTH AND LOCATION TO BE VERIFIED BY THE ENGINEER)

PR THRUST BLOCK

PR STEEL END SECTION

EAST FORK SHOAL CREEK

℄ SHOAL CREEK = STA. 500+44.04 (PROPOSED) (PROPOSED S.N. 068-0505) (EXISTING S.N. 068-0028)

BIT.

RIPRAP

48" CMP

F.E.

STA. 501+84.84, 66.06' LEFT
PIPE CULVERT, CLASS D, TYPE I,
24" X 53'-0"
U.S. ELEV. = 553.20
D.S. ELEV. = 552.20

FOR FIELD ENTRANCE DETAILS, SEE SHEET 83

FOR GUARDRAIL DETAILS, SEE SHEET 85

41'-0"

4'-0"

MATCH LINE STA. 502+00.00

EXIST. CURVE 4
PI STA. = 497+91.17
Δ = 24° 14' 26" (RT)
D = 6° 05' 27"
R = 940.67'
T = 202.01'
L = 397.98'
E = 21.45'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 495+89.16
P.T. STA. = 499+87.14

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
NOTE BOOK
NO. _____
BY | DATE

PR. FILE
SURVEYED
PLOTTED
GRADES CHECKED
NOTE BOOK
NO. _____
STRUCTURE NO(S) (IF ANY)
BY | DATE

PLOT DATE = 1/23/2006
FILE NAME = e:\projects\ed53594\sht-tp&p28.dgn
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USER NAME = slagler

580 575 570 565 560 555 550 545 540

EXISTING IL 185 PROFILE ⌀ ℄

PROPOSED IL 185 PROFILE ⌀ ℄

+97.75 EL. 562.05

550.00 V.C.

D.H.W. ELEV. = 556.80 (50 YR.)

496+00	496+50	497+00	497+50	498+00	498+50	499+00	499+50	500+00	500+50	501+00	501+50	502+00
561.44 / 562.05	561.43 / 562.05	561.22 / 562.05	561.10 / 562.05	560.86 / 562.05	560.76 / 562.05	560.70 / 562.05	560.75 / 562.05	560.99 / 562.05	561.16 / 562.22	561.38 / 562.70	561.61 / 563.48	562.66 / 564.58

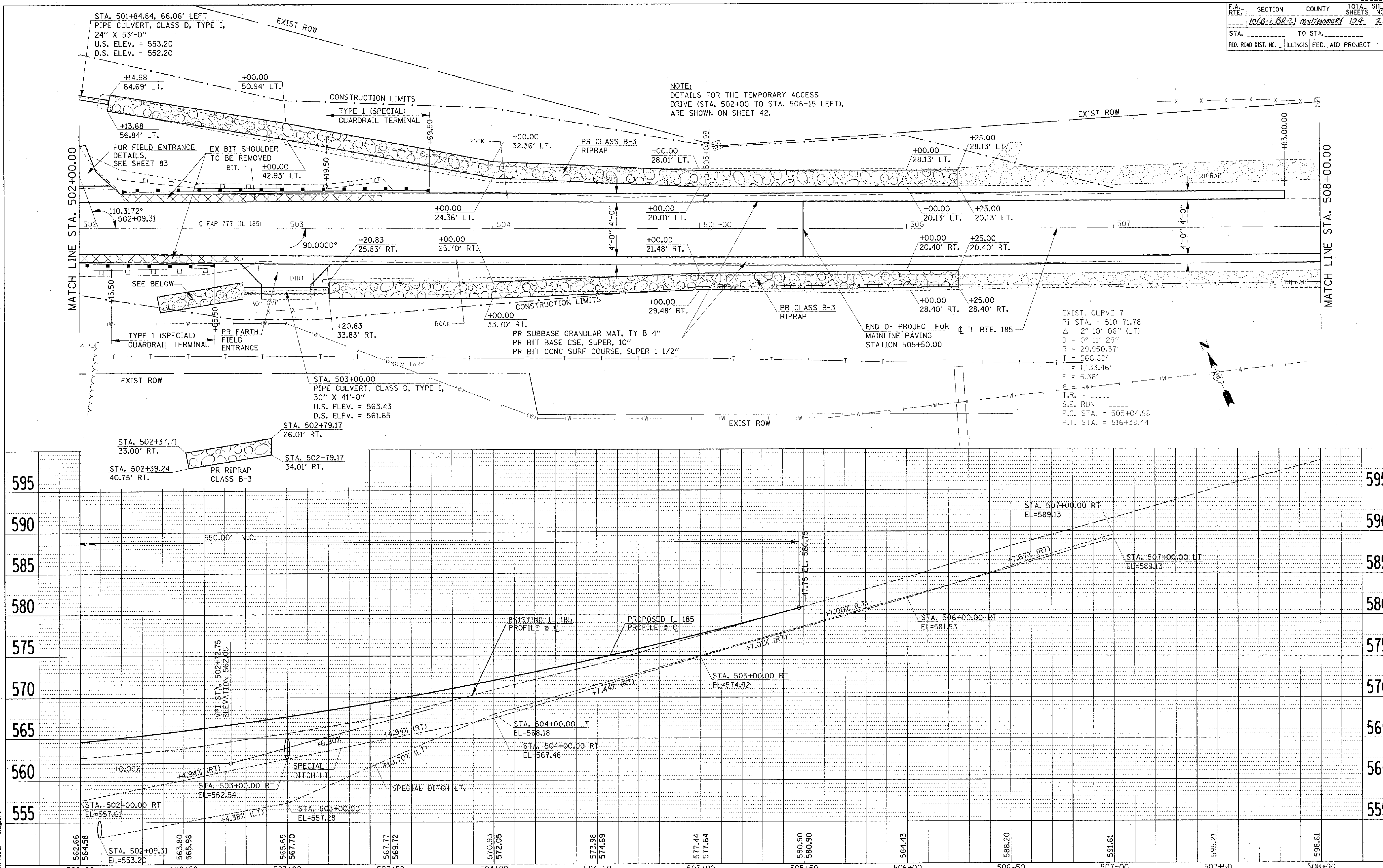
PLAN & PROFILE (IL RTE 185)

CONTRACT NO. 92667

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
----	10(B-1,BR-2)	MONTGOMERY	104	26

STA. ________ TO STA. ________

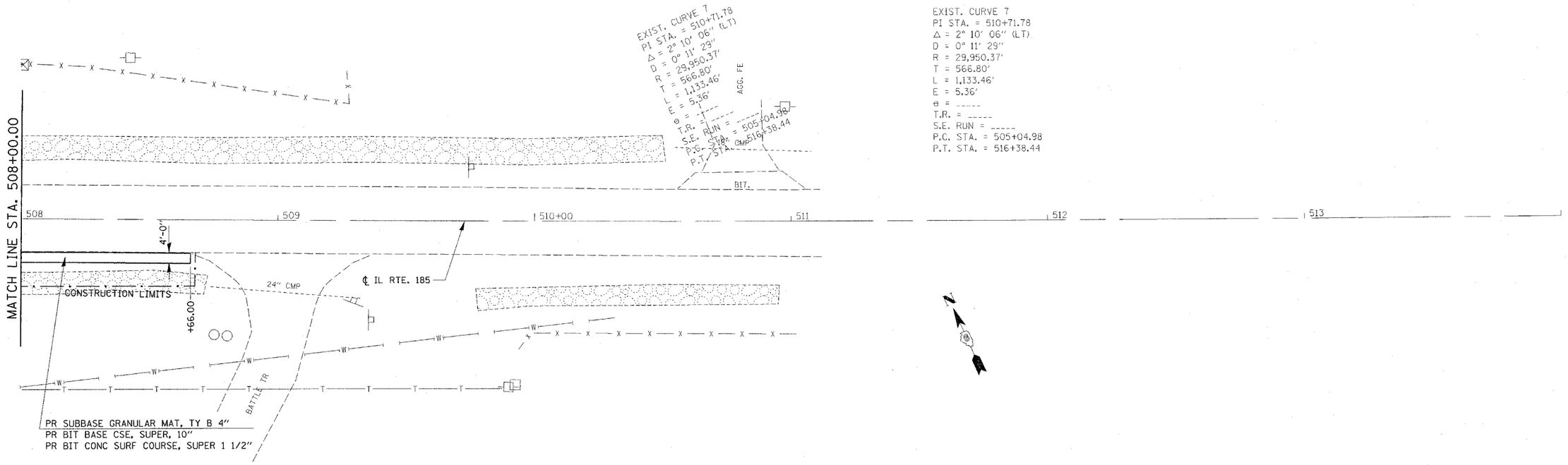
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT



PLAN & PROFILE (IL RTE 185)

CONTRACT NO. 92677

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
----	10(B-1, BR-2)	MONTGOMERY	104	27
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



EXIST. CURVE 7
PI STA. = 510+71.78
Δ = 2° 10' 06" (LT)
D = 0° 11' 29"
R = 29,950.37'
T = 566.80'
L = 1,133.46'
E = 5.36'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 505+04.98
P.T. STA. = 516+38.44

NOTE:
CENTERLINE PROFILE ELEVATIONS FOR IL 185 FROM STA. 511+50 TO STA. 513+50 WERE TAKEN FROM THE 1994 PLANS FOR SECTION 10 W-1, RS-3.

620 615 610 605 600 595 590 585 580

598.61 601.65 604.23 606.45 608.22 609.36 610.17 609.33 611.43 612.31

508+00 508+50 509+00 509+50 510+00 510+50 511+00 511+50 512+00 512+50 513+00 513+50

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

P.L. FILE | SURVEYED | PLOTTED | ALIGNMENT CHECKED | R.W. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO. ____

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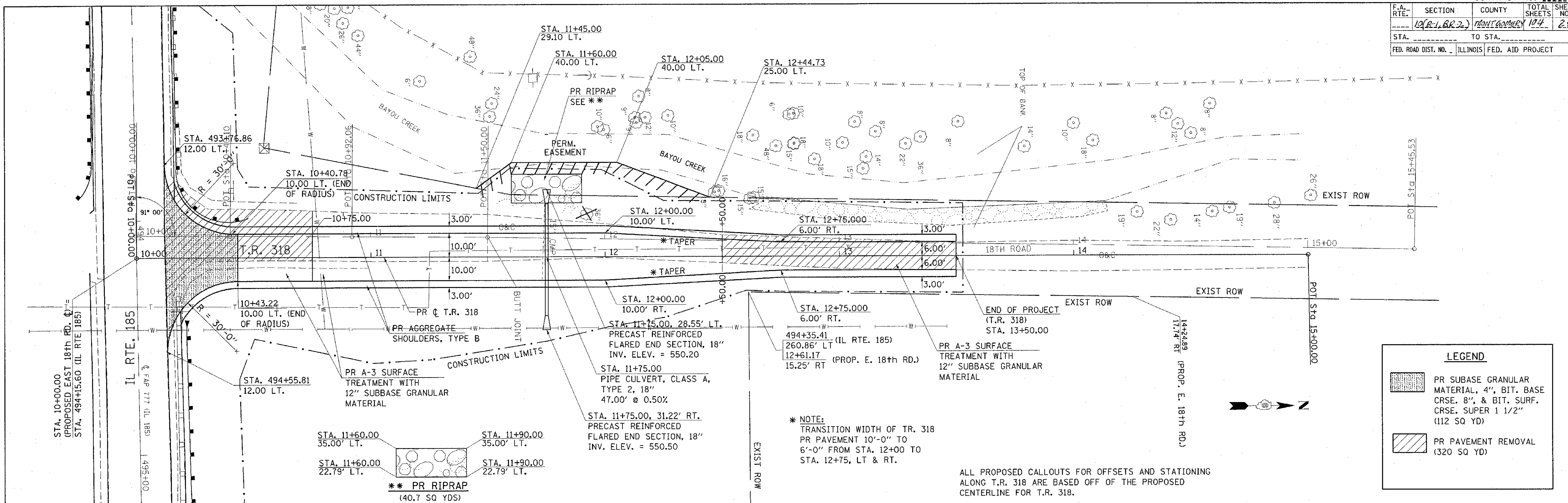
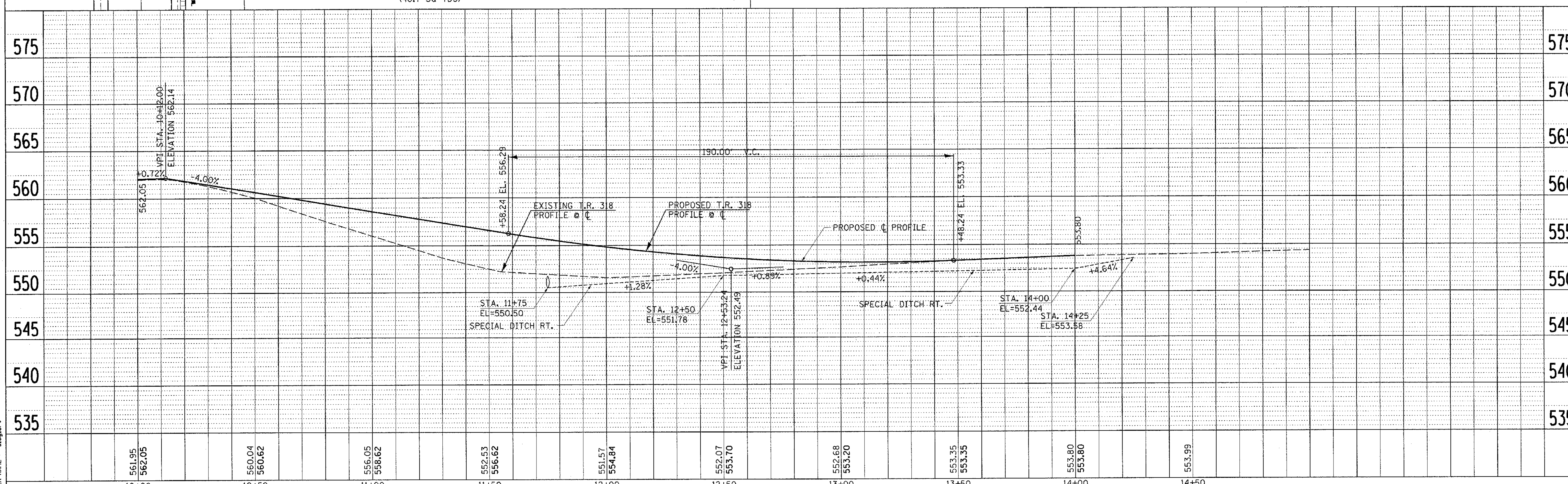
PLAN & PROFILE (IL RTE 185)

CONTRACT NO. 92667

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
----	10(B-1, BR-2)	MONTGOMERY	104	28
STA. ________		TO STA. ________		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		





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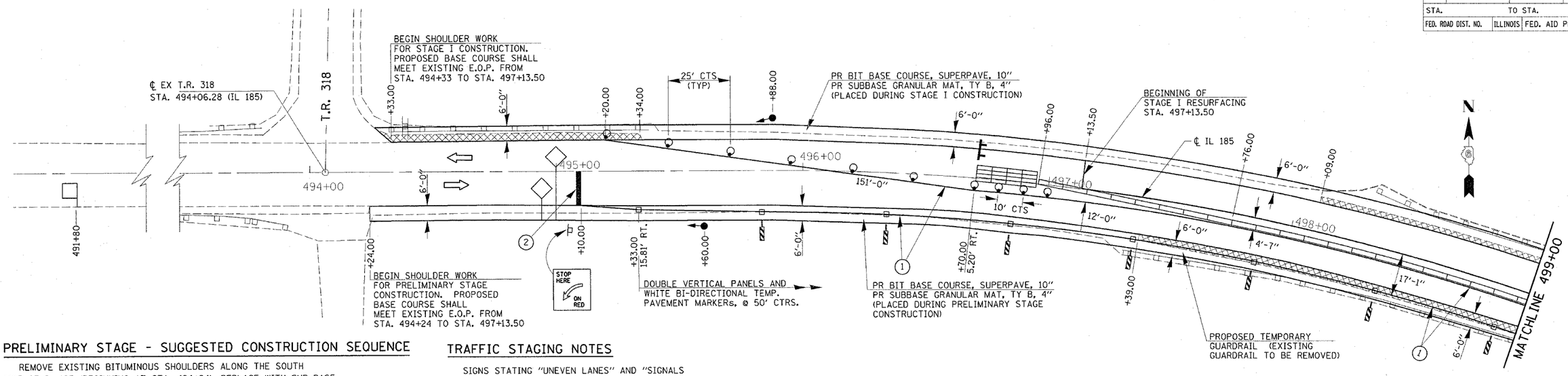
USER NAME = sloglert

PLAN & PROFILE (E. 18th RD.)

CONTRACT NO. 92667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	29
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PRELIMINARY STAGE - SUGGESTED CONSTRUCTION SEQUENCE

REMOVE EXISTING BITUMINOUS SHOULDERS ALONG THE SOUTH SIDE OF IL 185 (BEGINNING AT STA. 494+24), REPLACE WITH SUB-BASE GRANULAR MATERIAL, 4" AND BITUMINOUS BASE COURSE, 10". PROPOSED WIDTHS ARE CALLED OUT ON THE SHEETS.

PLACE "MAX WIDTH" SIGNING AT THE LOCATIONS SHOWN IN THESE PLANS.

SET UP STAGE 1 TRAFFIC CONTROL UTILIZING THESE PLANS IN CONJUNCTION WITH HIGHWAY STANDARD 701321. PLACE TEMPORARY CONCRETE BARRIER AND PAVEMENT MARKINGS (STOP BARS, LANE LINES, ETC.) IN ACCORDANCE TO THESE PLANS.

INSTALL TEMPORARY SIGNALIZATION AND MICROWAVE DETECTION SYSTEMS AT THE LOCATIONS CALLED OUT ON THESE PLANS.

CONSTRUCT TEMPORARY AGGREGATE ACCESS ROAD ALONG THE EAST SHOULDER BETWEEN STA. 509+09 AND STA. 507+80.

INSTALL TEMPORARY GUARDRAIL AS SHOWN IN THESE PLANS FOR STAGE 1 TRAFFIC.

STAGE I - SUGGESTED CONSTRUCTION SEQUENCE

PERFORM STAGE 1 STRUCTURE REMOVAL AND CONSTRUCTION FOR THE SHOAL CREEK STRUCTURE (S.N. 068-0028).

PERFORM IL 185 ROADWAY WORK FOR THE NORTHBOUND LANE (NO PROPOSED BIT. CONC. SURFACE COURSE) INCLUDING THE REMOVAL OF EXISTING BITUMINOUS SHOULDERS ALONG THE NORTH AND EAST SIDES OF IL 185 (BEGINNING AT STA. 494+33), THE PLACEMENT OF SUB-BASE GRANULAR MATERIAL, 4" & BITUMINOUS BASE COURSE, 10", AND FIELD ENTRANCE WORK AT STA.502+09 LT.

INSTALL TEMPORARY GUARDRAIL AS SHOWN IN THESE PLANS FOR STAGE 2 TRAFFIC.

INSTALL 2 REUSABLE ENERGY ABSORBING CRASH TERMINALS AT STATIONS 505+38.30 & 506+28.50.

STAGE II - SUGGESTED CONSTRUCTION SEQUENCE

FOLLOWING THE COMPLETION OF STAGE 1 CONSTRUCTION, RELOCATE TEMPORARY CONCRETE BARRIER WALL AND PLACE TEMPORARY PAVEMENT MARKING IN ACCORDANCE TO THESE PLANS.

PERFORM STAGE 2 STRUCTURE REMOVAL AND CONSTRUCTION FOR THE SHOAL CREEK STRUCTURE.

PERFORM IL 185 ROADWAY WORK (NO PROPOSED BIT. CONC. SURFACE COURSE) INCLUDING ASSOCIATED EARTH WORK AND REMOVAL OF THE OUTER 4'-0" OF BITUMINOUS BASE COURSE ON BOTH LEFT & RIGHT SIDES OF THE ROADWAY, SOUTHEAST OF THE SHOAL CREEK STRUCTURE.

REMOVE TEMPORARY GUARDRAIL AND CONSTRUCT STEEL PLATE BEAM GUARDRAIL AND TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) AS DETAILED IN THESE PLANS.

REMOVE TEMPORARY GUARDRAIL AND CONSTRUCT STEEL PLATE BEAM GUARDRAIL AND TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) AS DETAILED IN THESE PLANS.

TRAFFIC STAGING NOTES

SIGNS STATING "UNEVEN LANES" AND "SIGNALS AHEAD" SHALL BE ERECTED DURING STAGE CONSTRUCTION BY THE CONTRACTOR AT LOCATIONS AS DIRECTED BY THE ENGINEER. THESE SIGNS ARE INCIDENTAL TO THE COST OF THE CONTRACT.

DURING STAGE CONSTRUCTION, EXTRA FLAGGERS ARE NECESSARY FOR BRIDGE DECK PAVING OPERATIONS.

EXTRA FLASHERS AND WARNINGS ARE NEEDED FOR TRAFFIC CONTROL AT NIGHT DUE TO THE VERTICAL RISE SOUTHEAST OF SHOAL CREEK.

THIS TRAFFIC CONTROL PLAN SHALL BE USED IN CONJUNCTION WITH STANDARD 701321 AND AS DIRECTED BY THE ENGINEER. ALL WORK REQUIRED TO SET UP, MAINTAIN, AND REMOVE TRAFFIC CONTROL AS DETAILED IN THESE PLANS SHALL BE INCLUDED IN THE COST FOR "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)".

THE CONTRACTOR SHALL PLACE MAX WIDTH SIGNS BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL. THESE SIGNS SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)". (SEE MAX WIDTH SIGN DETAIL SHEET)

TEMPORARY RUMBLE STRIPS, TEMPORARY SIGNING, TEMPORARY BARRIER WALL REFLECTORS, SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD 701321 OR AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL NOTIFY LARRY SIMON (PH. 785-5836) IN THE DISTRICT 6 TRAFFIC SECTION OF THE BUREAU OF OPERATIONS AT LEAST ONE WEEK PRIOR TO IMPLEMENTING STAGE TRAFFIC CONTROL.

THE FIRST AND LAST SECTION OF EVERY RUN OF TEMPORARY CONCRETE BARRIER WALL SHALL BE SECURED TO THE PAVEMENT WITH DOWEL BARS IN ACCORDANCE WITH SECTION 704.06 OF THE STANDARD SPECIFICATIONS BOOK.

THE CONTRACTOR SHALL NOTIFY KYLE ARMSTRONG (PH. 558-6523) IN THE DISTRICT 6 TRAFFIC SECTION OF THE BUREAU OF OPERATIONS AT LEAST THREE DAYS PRIOR TO ACTIVATING THE TEMPORARY TRAFFIC SIGNALS.

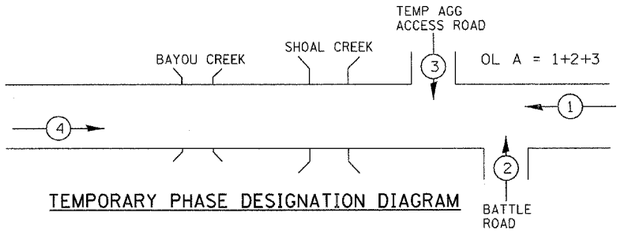
48"X48" SIGNS ARE TO BE USED FOR THE ROAD CLOSURE OF T.R. 318.

THIS TRAFFIC CONTROL PLAN WAS LAYED OUT WITH CONCRETE BARRIER WALLS AT 10'-0" LENGTHS. THE CONTRACTOR WILL HAVE THE OPTION OF USING 12'-6" WALL LENGTHS AS CALLED OUT IN STD. 704001-02 OR THE 10'-0" LENGTHS AS SHOWN IN THESE PLANS.

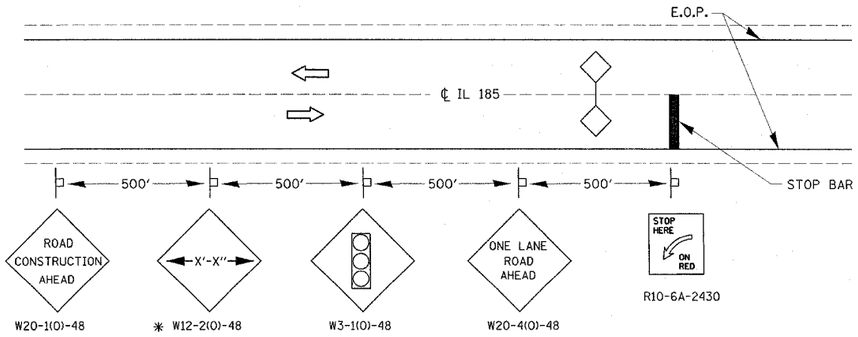
SAWCUTS FOR PROPOSED SHOULDER WORK SHALL BE INCLUDED IN THE COSTS FOR "BITUMINOUS CONCRETE SHOULDER REMOVAL".

LEGEND

- BITUMINOUS WEARING SURFACE REMOVAL
- STRUCTURE REMOVAL
- PAVEMENT OR BIT. BASE COURSE REMOVAL
- EXISTING BITUMINOUS SHOULDER REMOVAL
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- WHITE BI-DIRCECTIONAL TEMP. PAVEMENT MARKER
- DRUM WITH STEADY BURN LIGHT
- MICROWAVE DETECTOR SYSTEM
- DIRECTION OF TRAFFIC
- TEMPORARY TRAFFIC SIGNAL
- INDUCTION LOOP DETECTOR
- TEMP. IMPACT ATTENUATOR (NON REDIRECT) TL 3
- TYPE III BARRICADE
- (1) TEMPORARY PAVEMENT MARKING - LINE 5"
- (2) TEMPORARY PAVEMENT MARKING - LINE 24"
- TEMP. IMPACT ATTENUATOR (FULLY REDIRECT NARROW) TL 3



TEMPORARY PHASE DESIGNATION DIAGRAM



* MAX WIDTH DIMENSIONS SHALL BE DETERMINED BY THE ENGINEER.

TYPICAL "MAX WIDTH" SIGNING

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC & STAGING PLANS PRELIMINARY & STAGE I

FAP 777 (IL RTE. 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT. HORIZ.
DATE
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PLOT DATE = 1/23/2006
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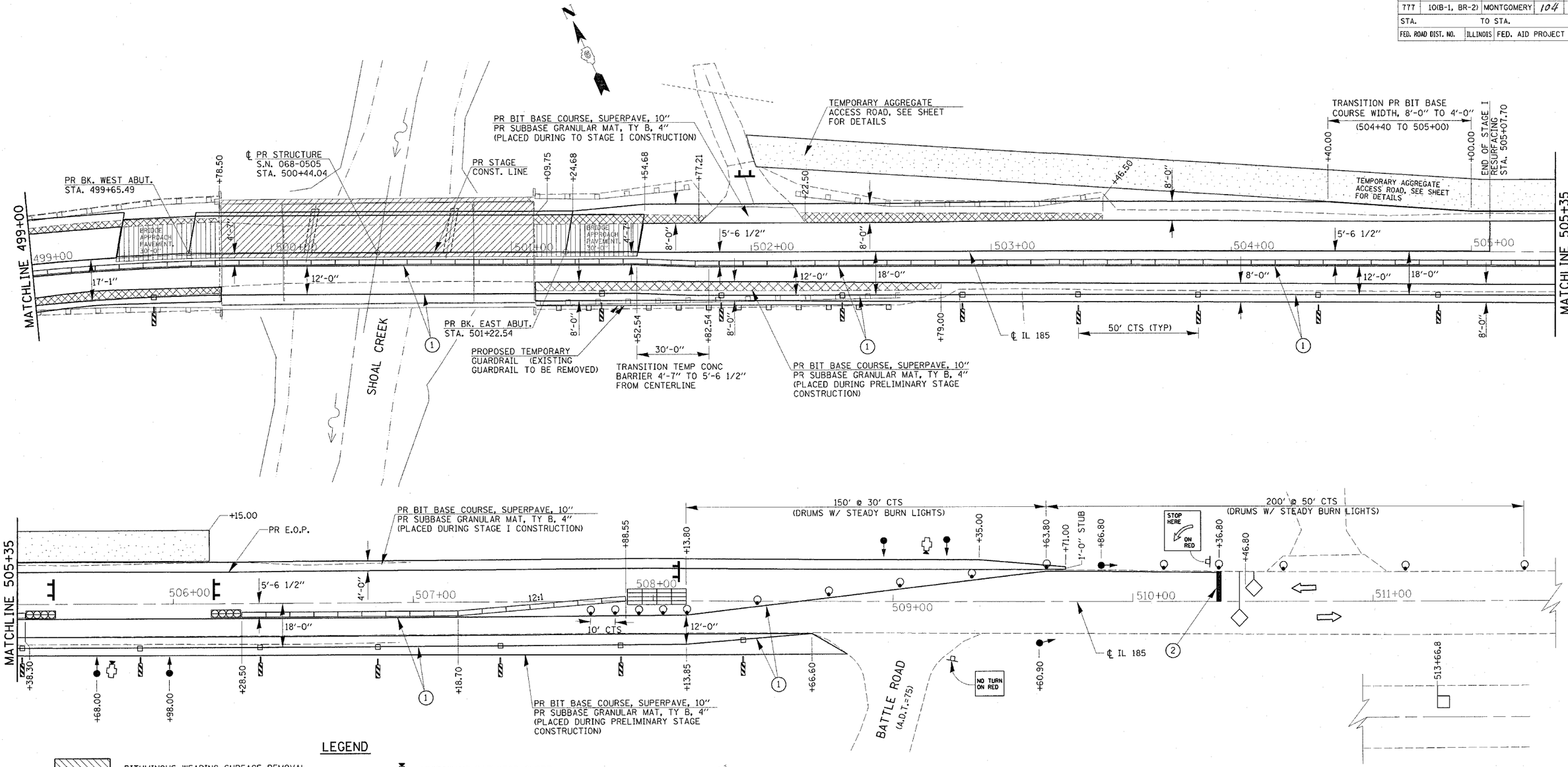
USER NAME = slaglerl

CONTRACT NO. 92667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	30
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- BITUMINOUS WEARING SURFACE REMOVAL
- STRUCTURE REMOVAL
- PAVEMENT OR BIT. BASE COURSE REMOVAL
- EXISTING BITUMINOUS SHOULDER REMOVAL
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- WHITE BI-DIRCECTIONAL TEMP. PAVEMENT MARKER
- DRUM WITH STEADY BURN LIGHT
- MICROWAVE DETECTOR SYSTEM
- DIRECTION OF TRAFFIC
- TEMPORARY TRAFFIC SIGNAL
- INDUCTION LOOP DETECTOR
- TEMP. IMPACT ATTENUATOR (NON REDIRECT) TL 3
- TYPE III BARRICADE
- (1) TEMPORARY PAVEMENT MARKING - LINE 5"
- (2) TEMPORARY PAVEMENT MARKING - LINE 24"
- TEMP. IMPACT ATTENUATOR (FULLY REDIRECT NARROW) TL 3

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC & STAGING PLANS PRELIMINARY & STAGE I

FAP 777 (IL RTE. 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT. HORIZ.
DATE
DRAWN BY RTS
CHECKED BY

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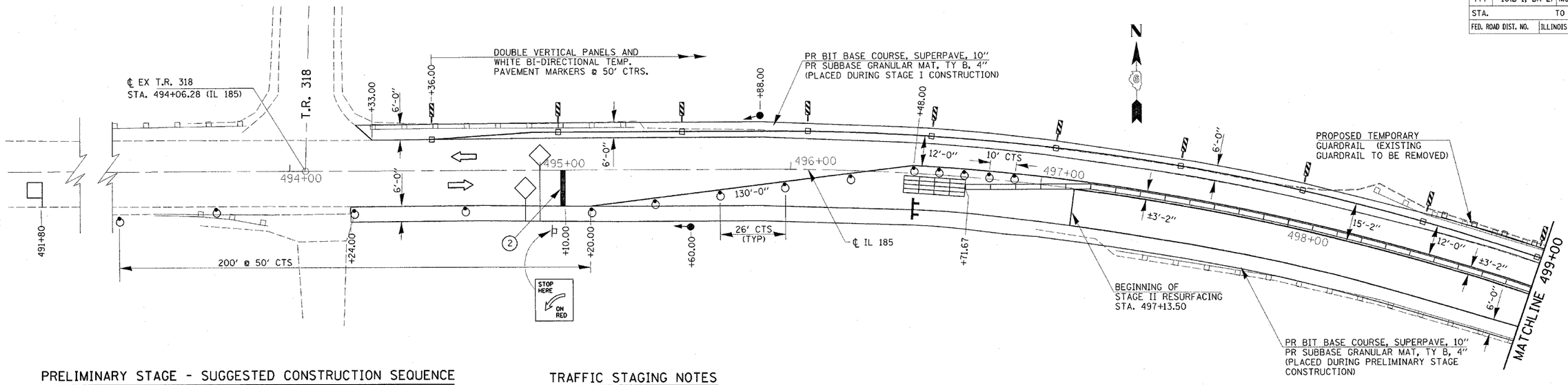
CONTRACT NO. 92667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	31
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PRELIMINARY STAGE - SUGGESTED CONSTRUCTION SEQUENCE

REMOVE EXISTING BITUMINOUS SHOULDERS ALONG THE SOUTH SIDE OF IL 185, REPLACE WITH SUB-BASE GRANULAR MATERIAL, 4" AND BITUMINOUS BASE COURSE, 10". PROPOSED WIDTHS ARE CALLED OUT ON THE SHEETS.

PLACE "MAX WIDTH" SIGNING AT THE LOCATIONS SHOWN IN THESE PLANS.

SET UP STAGE 1 TRAFFIC CONTROL UTILIZING THESE PLANS IN CONJUNCTION WITH HIGHWAY STANDARD 701321. PLACE TEMPORARY CONCRETE BARRIER AND PAVEMENT MARKINGS (STOP BARS, LANE LINES, ETC.) IN ACCORDANCE TO THESE PLANS.

INSTALL TEMPORARY SIGNALIZATION AND MICROWAVE DETECTION SYSTEMS AT THE LOCATIONS CALLED OUT ON THESE PLANS.

CONSTRUCT TEMPORARY AGGREGATE ACCESS ROAD ALONG THE EAST SHOULDER BETWEEN STA. 509+09 AND STA. 507+80.

INSTALL TEMPORARY GUARDRAIL AS SHOWN IN THESE PLANS FOR STAGE 1 TRAFFIC.

STAGE I - SUGGESTED CONSTRUCTION SEQUENCE

PERFORM STAGE 1 STRUCTURE REMOVAL AND CONSTRUCTION FOR THE SHOAL CREEK STRUCTURE (S.N. 068-0028).

PERFORM IL 185 ROADWAY WORK FOR THE NORTHBOUND LANE (NO PROPOSED BIT. CONC. SURFACE COURSE) INCLUDING THE REMOVAL OF EXISTING BITUMINOUS SHOULDERS ALONG THE NORTH AND EAST SIDES OF IL 185, THE PLACEMENT OF SUB-BASE GRANULAR MATERIAL, 4" & BITUMINOUS BASE COURSE, 10", AND FIELD ENTRANCE WORK AT STA.502+09 LT.

INSTALL TEMPORARY GUARDRAIL AS SHOWN IN THESE PLANS FOR STAGE 2 TRAFFIC.

INSTALL 2 REUSABLE ENERGY ABSORBING CRASH TERMINALS AT STATIONS 505+38.30 & 506+28.50.

STAGE II - SUGGESTED CONSTRUCTION SEQUENCE

FOLLOWING THE COMPLETION OF STAGE 1 CONSTRUCTION, RELOCATE TEMPORARY CONCRETE BARRIER WALL AND PLACE TEMPORARY PAVEMENT MARKING IN ACCORDANCE TO THESE PLANS.

PERFORM STAGE 2 STRUCTURE REMOVAL AND CONSTRUCTION FOR THE SHOAL CREEK STRUCTURE.

PERFORM IL 185 ROADWAY WORK (NO PROPOSED BIT. CONC. SURFACE COURSE) INCLUDING ASSOCIATED EARTH WORK AND REMOVAL OF THE OUTER 4'-0" OF BITUMINOUS BASE COURSE ON BOTH LEFT & RIGHT SIDES OF THE ROADWAY, SOUTHEAST OF THE SHOAL CREEK STRUCTURE.

REMOVE TEMPORARY GUARDRAIL AND CONSTRUCT STEEL PLATE BEAM GUARDRAIL AND TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) AS DETAILED IN THESE PLANS.

REMOVE TEMPORARY GUARDRAIL AND CONSTRUCT STEEL PLATE BEAM GUARDRAIL AND TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) AS DETAILED IN THESE PLANS.

TRAFFIC STAGING NOTES

SIGNS STATING "UNEVEN LANES" AND "SIGNALS AHEAD" SHALL BE ERECTED DURING STAGE CONSTRUCTION BY THE CONTRACTOR AT LOCATIONS AS DIRECTED BY THE ENGINEER. THESE SIGNS ARE INCIDENTAL TO THE COST OF THE CONTRACT.

DURING STAGE CONSTRUCTION, EXTRA FLAGGERS ARE NECESSARY FOR BRIDGE DECK PAVING OPERATIONS.

EXTRA FLASHERS AND WARNINGS ARE NEEDED FOR TRAFFIC CONTROL AT NIGHT DUE TO THE VERTICAL RISE SOUTHEAST OF SHOAL CREEK.

THIS TRAFFIC CONTROL PLAN SHALL BE USED IN CONJUNCTION WITH STANDARD 701321 AND AS DIRECTED BY THE ENGINEER.

ALL WORK REQUIRED TO SET UP, MAINTAIN, AND REMOVE TRAFFIC CONTROL AS DETAILED IN THESE PLANS SHALL BE INCLUDED IN THE COST FOR "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)".

THE CONTRACTOR SHALL PLACE MAX WIDTH SIGNS BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL. THESE SIGNS SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)". (SEE MAX WIDTH SIGN DETAIL SHEET)

TEMPORARY RUMBLE STRIPS, TEMPORARY SIGNING, TEMPORARY BARRIER WALL REFLECTORS, SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD 701321 OR AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL NOTIFY LARRY SIMON (PH. 785-5836) IN THE DISTRICT 6 TRAFFIC SECTION OF THE BUREAU OF OPERATIONS AT LEAST ONE WEEK PRIOR TO IMPLEMENTING STAGE TRAFFIC CONTROL.

THE FIRST AND LAST SECTION OF EVERY RUN OF TEMPORARY CONCRETE BARRIER WALL SHALL BE SECURED TO THE PAVEMENT WITH DOWEL BARS IN ACCORDANCE WITH SECTION 704.06 OF THE STANDARD SPECIFICATIONS BOOK.

THE CONTRACTOR SHALL NOTIFY KYLE ARMSTRONG (PH. 558-6523) IN THE DISTRICT 6 TRAFFIC SECTION OF THE BUREAU OF OPERATIONS AT LEAST THREE DAYS PRIOR TO ACTIVATING THE TEMPORARY TRAFFIC SIGNALS.

48"X48" SIGNS ARE TO BE USED FOR THE ROAD CLOSURE OF T.R. 318.

THIS TRAFFIC CONTROL PLAN WAS LAYED OUT WITH CONCRETE BARRIER WALLS AT 10'-0" LENGTHS. THE CONTRACTOR WILL HAVE THE OPTION OF USING 12'-6" WALL LENGTHS AS CALLED OUT IN STD. 704001-02 OR THE 10'-0" LENGTHS AS SHOWN IN THESE PLANS.

SAWCUTS FOR PROPOSED SHOULDER WORK SHALL BE INCLUDED IN THE COSTS FOR "BITUMINOUS CONCRETE SHOULDER REMOVAL".

LEGEND

- BITUMINOUS WEARING SURFACE REMOVAL
- STRUCTURE REMOVAL
- PAVEMENT OR BIT. BASE COURSE REMOVAL
- EXISTING BITUMINOUS SHOULDER REMOVAL
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- WHITE BI-DIRCECTIONAL TEMP. PAVEMENT MARKER
- DRUM WITH STEADY BURN LIGHT
- MICROWAVE DETECTOR SYSTEM
- DIRECTION OF TRAFFIC
- TEMPORARY TRAFFIC SIGNAL
- INDUCTION LOOP DETECTOR
- TEMP. IMPACT ATTENUATOR (NON REDIRECT) TL 3
- TYPE III BARRICADE
- (1) TEMPORARY PAVEMENT MARKING - LINE 5"
- (2) TEMPORARY PAVEMENT MARKING - LINE 24"
- TEMP. IMPACT ATTENUATOR (FULLY REDIRECT NARROW) TL 3

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC & STAGING PLANS STAGE II

FAP 777 (IL RTE. 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT.
HORIZ.

DRAWN BY RTS

DATE

CHECKED BY

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USER NAME = sieglert

CONTRACT NO. 92667

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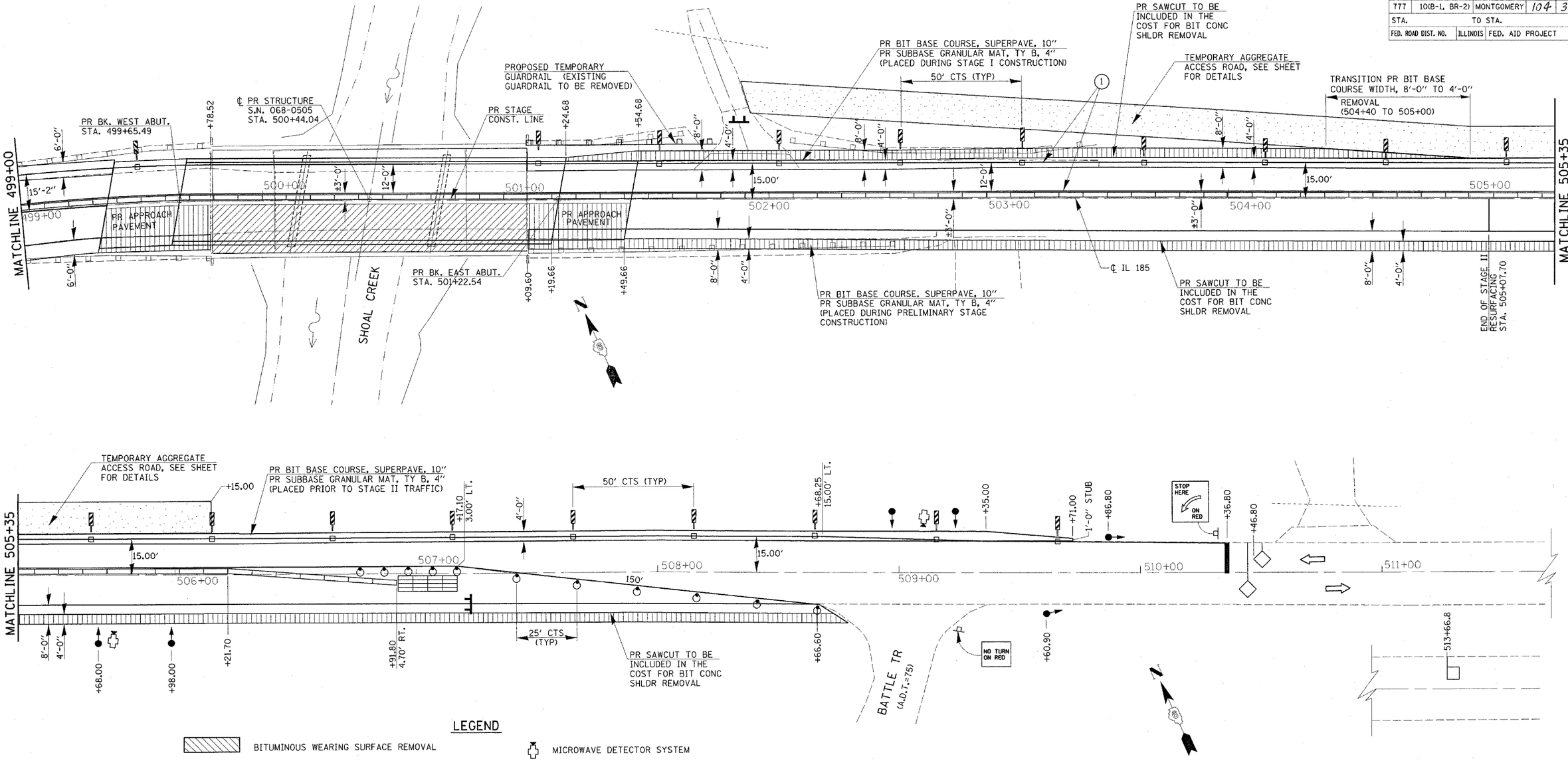
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- BITUMINOUS WEARING SURFACE REMOVAL
- STRUCTURE REMOVAL
- PAVEMENT OR BIT. BASE COURSE REMOVAL
- EXISTING BITUMINOUS SHOULDER REMOVAL
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- WHITE BI-DIRCECTIONAL TEMP. PAVEMENT MARKER
- DRUM WITH STEADY BURN LIGHT
- MICROWAVE DETECTOR SYSTEM
- DIRECTION OF TRAFFIC
- TEMPORARY TRAFFIC SIGNAL
- INDUCTION LOOP DETECTOR
- TEMP. IMPACT ATTENUATOR (NON REDIRECT) TL 3
- TYPE III BARRICADE
- (1) TEMPORARY PAVEMENT MARKING - LINE 5"
- (2) TEMPORARY PAVEMENT MARKING - LINE 24"
- TEMP. IMPACT ATTENUATOR (FULLY REDIRECT NARROW) TL 3

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC & STAGING PLANS STAGE II

FAP 777 (IL RTE. 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT.
HORIZ.
DATE

DRAWN BY RTS
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CONTRACT NO. 92667

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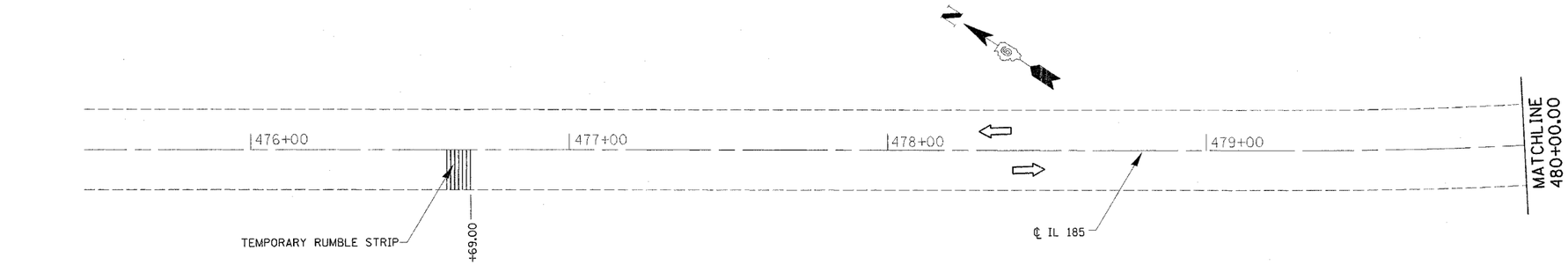
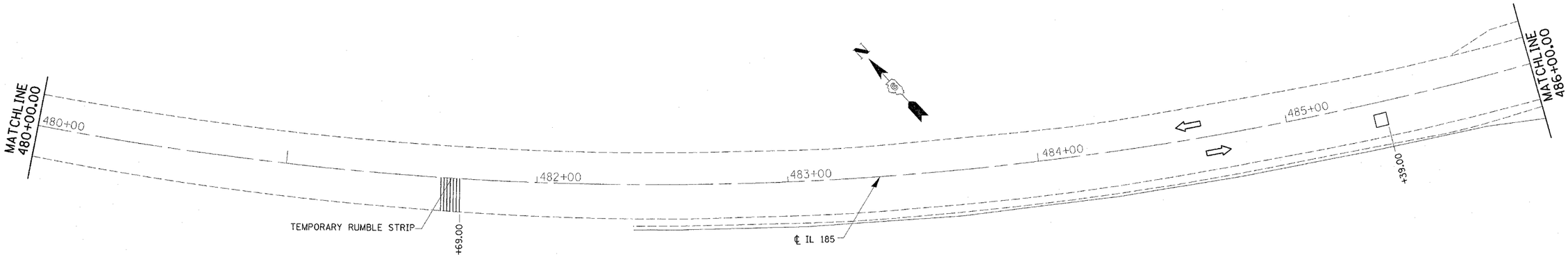
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





STAGE III - SUGGESTED CONSTRUCTION SEQUENCE

PLACE "MAX WIDTH" SIGNING AT THE LOCATIONS SHOWN IN THESE PLANS.

SET UP STAGE III TRAFFIC CONTROL UTILIZING THESE PLANS IN CONJUNCTION WITH HIGHWAY STANDARD 701321. PLACE TEMPORARY CONCRETE BARRIER AND PAVEMENT MARKINGS (STOP BARS, LANE LINES, ETC.) IN ACCORDANCE TO THESE PLANS.

INSTALL TEMPORARY SIGNALIZATION AT THE LOCATIONS CALLED OUT ON THESE PLANS.

PERFORM STAGE III BIT. WEARING SURFACE REMOVAL AND CONSTRUCT REINFORCED CONCRETE DECK OVERLAY FOR THE BAYOU CREEK STRUCTURE (068-0027).

REMOVE THE EXISTING BIT. SHOULDERS ON BOTH NORTH AND SOUTH SIDES OF IL 185. REPLACE WITH SUBBASE GRANULAR MATERIAL 4" AND BIT. BASE COURSE 10" (STA. 488+53 TO STA.493+91 NORTH & STA. 488+74 TO STA. 494+24 SOUTH).

PERFORM IL 185 ROADWAY WORK FOR THE NORTHBOUND LANE (NO BIT. CONC. SURFACE COURSE).

PERFORM T.R. 318 ROADWAY WORK.

INSTALL TEMPORARY GUARDRAIL AS SHOWN IN THESE PLANS FOR STAGE 1 TRAFFIC.

STAGE IV - SUGGESTED CONSTRUCTION SEQUENCE

FOLLOWING THE COMPLETION OF STAGE III CONSTRUCTION, RELOCATE TEMPORARY CONCRETE BARRIER WALL AND PLACE TEMPORARY PAVEMENT MARKING IN ACCORDANCE TO THESE PLANS.

PERFORM STAGE IV BIT. WEARING SURFACE REMOVAL AND CONSTRUCT REINFORCED CONCRETE DECK OVERLAY FOR THE BAYOU CREEK STRUCTURE (068-0027).

PERFORM IL 185 ROADWAY WORK FOR THE SOUTHBOUND LANE (NO BIT. CONC. SURFACE COURSE) INCLUDING ASSOCIATED EARTH WORK.

COMPLETE T.R. 318 ROADWAY WORK.

STAGE V - SUGGESTED CONSTRUCTION SEQUENCE

FOLLOWING THE COMPLETION OF STAGE IV CONSTRUCTION, REMOVE TEMPORARY CONCRETE BARRIER WALL AND PERFORM IL 185 ROADWAY WORK BY PLACING 1½" BITUMINOUS CONCRETE SURFACE COURSE.

UTILIZE APPROPRIATE HIGHWAY TRAFFIC CONTROL STANDARDS WHEN PLACING THE PROPOSED SURFACE COURSE.

TRAFFIC STAGING NOTES

SIGNS STATING "UNEVEN LANES" AND "SIGNALS AHEAD" SHALL BE ERECTED DURING STAGE CONSTRUCTION BY THE CONTRACTOR AT LOCATIONS AS DIRECTED BY THE ENGINEER. THESE SIGNS ARE INCIDENTAL TO THE COST OF THE CONTRACT.

DURING STAGE CONSTRUCTION, EXTRA FLAGGERS ARE NECESSARY FOR BRIDGE DECK PAVING OPERATIONS.

EXTRA FLASHERS AND WARNINGS ARE NEEDED FOR TRAFFIC CONTROL AT NIGHT DUE TO THE VERTICAL RISE SOUTHEAST OF SHOAL CREEK.

THIS TRAFFIC CONTROL PLAN SHALL BE USED IN CONJUNCTION WITH STANDARD 701321 AND AS DIRECTED BY THE ENGINEER. ALL WORK REQUIRED TO SET UP, MAINTAIN, AND REMOVE TRAFFIC CONTROL AS DETAILED IN THESE PLANS SHALL BE INCLUDED IN THE COST FOR "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)".

THE CONTRACTOR SHALL PLACE MAX WIDTH SIGNS BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL. THESE SIGNS SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)". (SEE MAX WIDTH SIGN DETAIL SHEET)

TEMPORARY RUMBLE STRIPS, TEMPORARY SIGNING, TEMPORARY BARRIER WALL REFLECTORS, SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD 701321 OR AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL NOTIFY LARRY SIMON (PH. 785-5836) IN THE DISTRICT 6 TRAFFIC SECTION OF THE BUREAU OF OPERATIONS AT LEAST ONE WEEK PRIOR TO IMPLEMENTING STAGE TRAFFIC CONTROL.

THE FIRST AND LAST SECTION OF EVERY RUN OF TEMPORARY CONCRETE BARRIER WALL SHALL BE SECURED TO THE PAVEMENT WITH DOWEL BARS IN ACCORDANCE WITH SECTION 704.06 OF THE STANDARD SPECIFICATIONS BOOK.

THE CONTRACTOR SHALL NOTIFY KYLE ARMSTRONG (PH. 558-6523) IN THE DISTRICT 6 TRAFFIC SECTION OF THE BUREAU OF OPERATIONS AT LEAST THREE DAYS PRIOR TO ACTIVATING THE TEMPORARY TRAFFIC SIGNALS.

48"X48" SIGNS ARE TO BE USED FOR THE ROAD CLOSURE OF T.R. 318.

THIS TRAFFIC CONTROL PLAN WAS LAYED OUT WITH CONCRETE BARRIER WALLS AT 10'-0" LENGTHS. THE CONTRACTOR WILL HAVE THE OPTION OF USING 12'-6" WALL LENGTHS AS CALLED OUT IN STD. 704001-02 OR THE 10'-0" LENGTHS AS SHOWN IN THESE PLANS.

SAWCUTS FOR PROPOSED SHOULDER WORK SHALL BE INCLUDED IN THE COSTS FOR "BITUMINOUS CONCRETE SHOULDER REMOVAL".

LEGEND

- BITUMINOUS WEARING SURFACE REMOVAL
- STRUCTURE REMOVAL
- PAVEMENT OR BIT. BASE COURSE REMOVAL
- EXISTING BITUMINOUS SHOULDER REMOVAL
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- WHITE BI-DIRCECTIONAL TEMP. PAVEMENT MARKER
- DRUM WITH STEADY BURN LIGHT
- MICROWAVE DETECTOR SYSTEM
- DIRECTION OF TRAFFIC
- TEMPORARY TRAFFIC SIGNAL
- INDUCTION LOOP DETECTOR
- TEMP. IMPACT ATTENUATOR (NON REDIRECT) TL 3
- TYPE III BARRICADE
- (1) TEMPORARY PAVEMENT MARKING - LINE 5"
- (2) TEMPORARY PAVEMENT MARKING - LINE 24"
- TEMP. IMPACT ATTENUATOR (FULLY REDIRECT NARROW) TL 3

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC & STAGING PLANS STAGE III

FAP 777 (IL RTE. 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT.
HORIZ.
DRAWN BY RTS
DATE
CHECKED BY

PLOT DATE = 1/23/2006
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PLOT SCALE = 20.0000 ' / IN.
USER NAME = slaglert

CONTRACT NO. 92667

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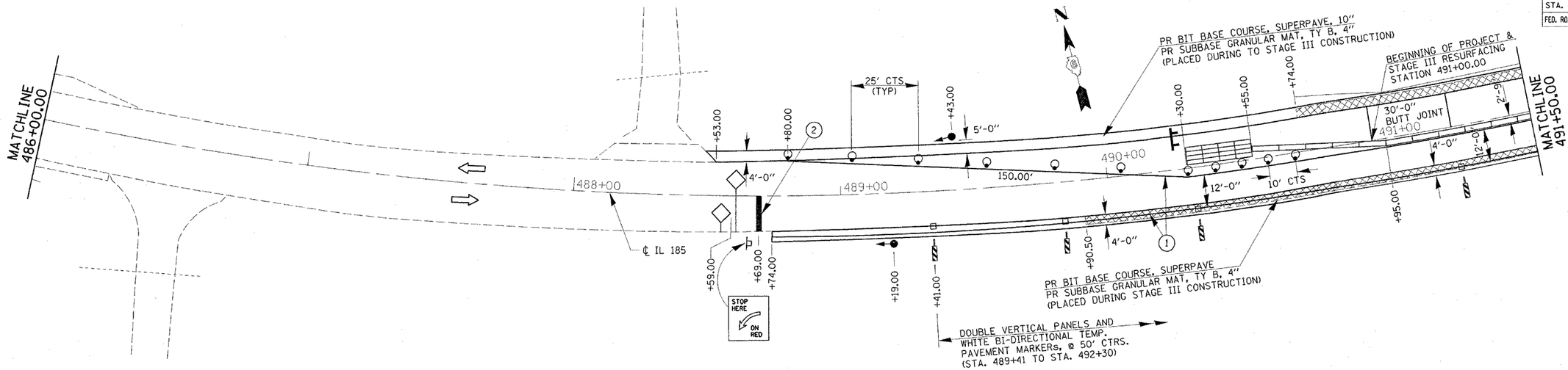
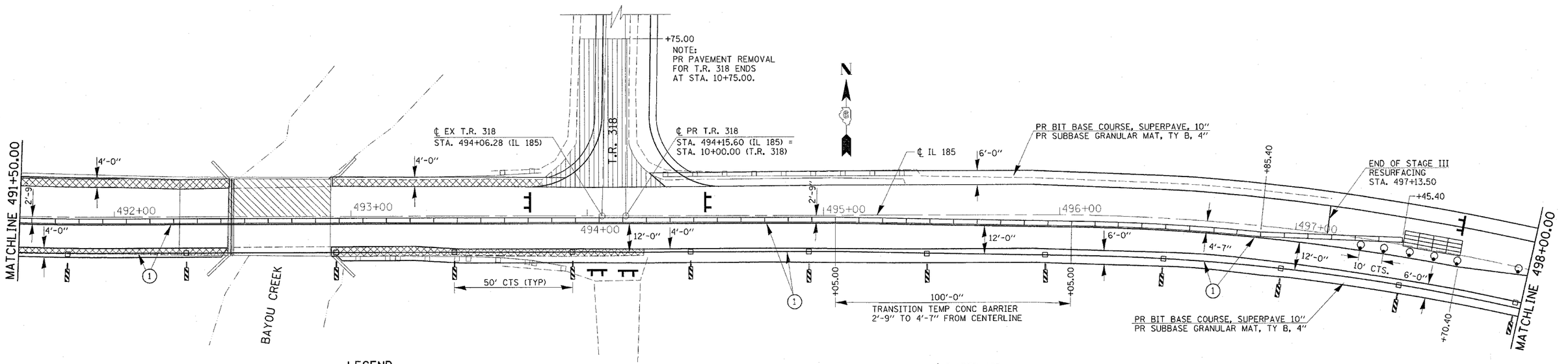
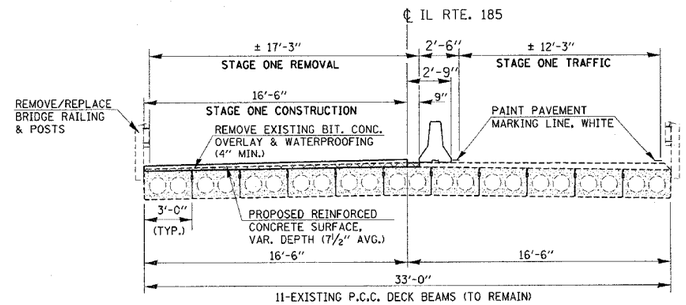
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





LEGEND

- BITUMINOUS WEARING SURFACE REMOVAL
- STRUCTURE REMOVAL
- PAVEMENT OR BIT. BASE COURSE REMOVAL
- EXISTING BITUMINOUS SHOULDER REMOVAL
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- WHITE BI-DIRCECTIONAL TEMP. PAVEMENT MARKER
- DRUM WITH STEADY BURN LIGHT
- MICROWAVE DETECTOR SYSTEM
- DIRECTION OF TRAFFIC
- TEMPORARY TRAFFIC SIGNAL
- INDUCTION LOOP DETECTOR
- TEMP. IMPACT ATTENUATOR (NON REDIRECT) TL 3
- TYPE III BARRICADE
- (1) TEMPORARY PAVEMENT MARKING - LINE 5"
- (2) TEMPORARY PAVEMENT MARKING - LINE 24"
- TEMP. IMPACT ATTENUATOR (FULLY REDIRECT NARROW) TL 3



STAGE I BAYOU CREEK STRUCTURE
TYPICAL SECTION
(LOOKING EAST)

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC & STAGING PLANS STAGE III

FAP 777 (IL RTE. 185)
SECTION 101(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT.
HORIZ.
DATE

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CONTRACT NO. 92667

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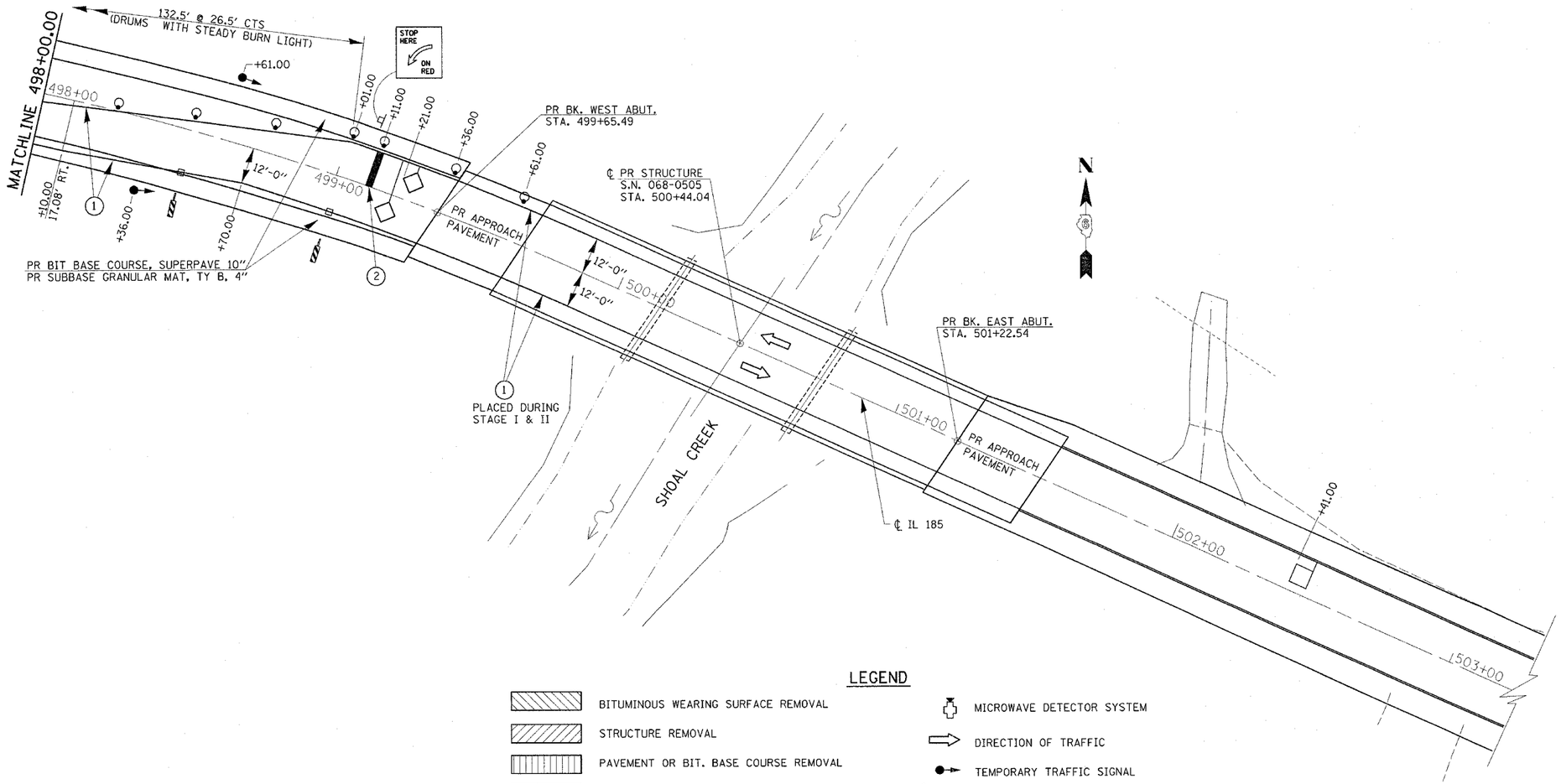
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- BITUMINOUS WEARING SURFACE REMOVAL
- STRUCTURE REMOVAL
- PAVEMENT OR BIT. BASE COURSE REMOVAL
- EXISTING BITUMINOUS SHOULDER REMOVAL
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- WHITE BI-DIRCECTIONAL TEMP. PAVEMENT MARKER
- DRUM WITH STEADY BURN LIGHT
- MICROWAVE DETECTOR SYSTEM
- DIRECTION OF TRAFFIC
- TEMPORARY TRAFFIC SIGNAL
- INDUCTION LOOP DETECTOR
- TEMP. IMPACT ATTENUATOR (NON REDIRECT) TL 3
- TYPE III BARRICADE
- (1) TEMPORARY PAVEMENT MARKING - LINE 5"
- (2) TEMPORARY PAVEMENT MARKING - LINE 24"
- TEMP. IMPACT ATTENUATOR (FULLY REDIRECT NARROW) TL 3

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC & STAGING PLANS STAGE III

FAP 777 (IL RTE. 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT.
HORIZ.
DRAWN BY RTS
DATE
CHECKED BY

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CONTRACT NO. 92667

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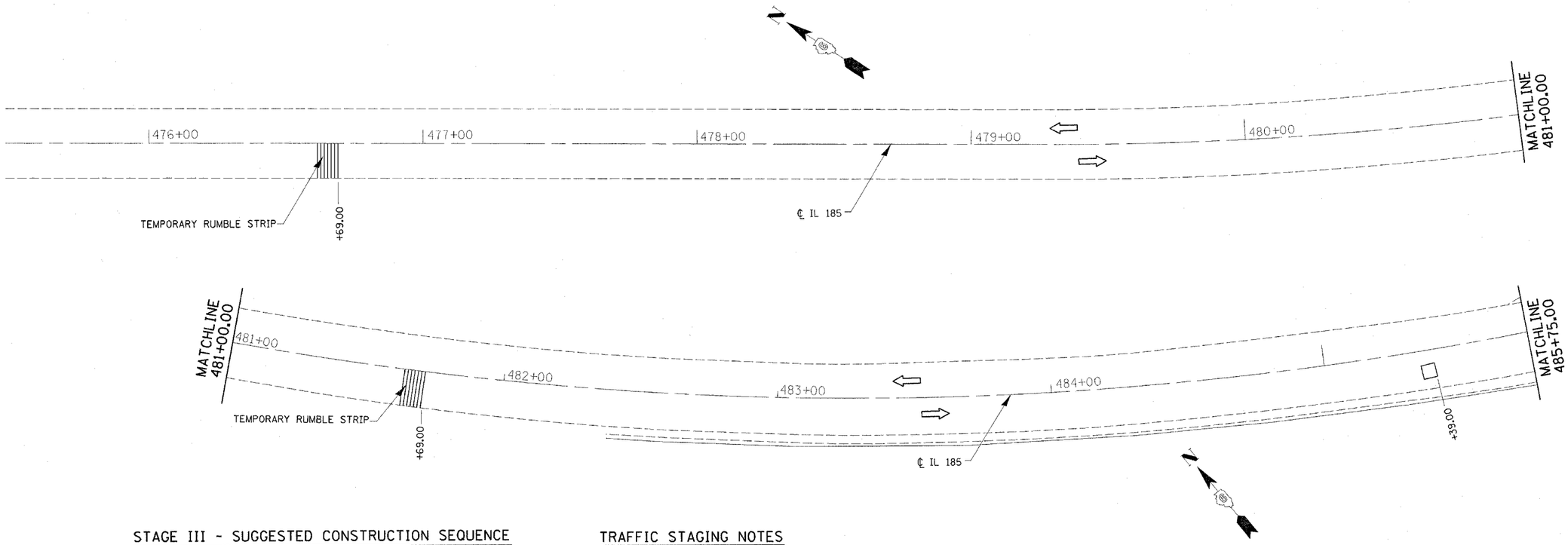
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



STAGE III - SUGGESTED CONSTRUCTION SEQUENCE

PLACE "MAX WIDTH" SIGNING AT THE LOCATIONS SHOWN IN THESE PLANS.

SET UP STAGE III TRAFFIC CONTROL UTILIZING THESE PLANS IN CONJUNCTION WITH HIGHWAY STANDARD 701321. PLACE TEMPORARY CONCRETE BARRIER AND PAVEMENT MARKINGS (STOP BARS, LANE LINES, ETC.) IN ACCORDANCE TO THESE PLANS.

INSTALL TEMPORARY SIGNALIZATION AT THE LOCATIONS CALLED OUT ON THESE PLANS.

PERFORM STAGE III BIT. WEARING SURFACE REMOVAL AND CONSTRUCT REINFORCED CONCRETE DECK OVERLAY FOR THE BAYOU CREEK STRUCTURE (068-0027).

REMOVE THE EXISTING BIT. SHOULDERS ON BOTH NORTH AND SOUTH SIDES OF IL 185. REPLACE WITH SUBBASE GRANULAR MATERIAL 4" AND BIT. BASE COURSE 10" (STA. 488+53 TO STA.493+91 NORTH & STA. 488+74 TO STA. 494+24 SOUTH).

PERFORM IL 185 ROADWAY WORK FOR THE NORTHBOUND LANE (NO BIT. CONC. SURFACE COURSE).

PERFORM T.R. 318 ROADWAY WORK.

INSTALL TEMPORARY GUARDRAIL AS SHOWN IN THESE PLANS FOR STAGE 1 TRAFFIC.

STAGE IV - SUGGESTED CONSTRUCTION SEQUENCE

FOLLOWING THE COMPLETION OF STAGE III CONSTRUCTION, RELOCATE TEMPORARY CONCRETE BARRIER WALL AND PLACE TEMPORARY PAVEMENT MARKING IN ACCORDANCE TO THESE PLANS.

PERFORM STAGE IV BIT. WEARING SURFACE REMOVAL AND CONSTRUCT REINFORCED CONCRETE DECK OVERLAY FOR THE BAYOU CREEK STRUCTURE (068-0027).

PERFORM IL 185 ROADWAY WORK FOR THE SOUTHBOUND LANE (NO BIT. CONC. SURFACE COURSE) INCLUDING ASSOCIATED EARTH WORK.

COMPLETE T.R. 318 ROADWAY WORK.

STAGE V - SUGGESTED CONSTRUCTION SEQUENCE

FOLLOWING THE COMPLETION OF STAGE IV CONSTRUCTION, REMOVE TEMPORARY CONCRETE BARRIER WALL AND PERFORM IL 185 ROADWAY WORK BY PLACING 1½" BITUMINOUS CONCRETE SURFACE COURSE.

UTILIZE APPROPRIATE HIGHWAY TRAFFIC CONTROL STANDARDS WHEN PLACING THE PROPOSED SURFACE COURSE.

TRAFFIC STAGING NOTES

SIGNS STATING "UNEVEN LANES" AND "SIGNALS AHEAD" SHALL BE ERECTED DURING STAGE CONSTRUCTION BY THE CONTRACTOR AT LOCATIONS AS DIRECTED BY THE ENGINEER. THESE SIGNS ARE INCIDENTAL TO THE COST OF THE CONTRACT.

DURING STAGE CONSTRUCTION, EXTRA FLAGGERS ARE NECESSARY FOR BRIDGE DECK PAVING OPERATIONS.

EXTRA FLASHERS AND WARNINGS ARE NEEDED FOR TRAFFIC CONTROL AT NIGHT DUE TO THE VERTICAL RISE SOUTHEAST OF SHOAL CREEK.

THIS TRAFFIC CONTROL PLAN SHALL BE USED IN CONJUNCTION WITH STANDARD 701321 AND AS DIRECTED BY THE ENGINEER. ALL WORK REQUIRED TO SET UP, MAINTAIN, AND REMOVE TRAFFIC CONTROL AS DETAILED IN THESE PLANS SHALL BE INCLUDED IN THE COST FOR "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)".

THE CONTRACTOR SHALL PLACE MAX WIDTH SIGNS BEFORE IMPLEMENTING ANY STAGE TRAFFIC CONTROL. THESE SIGNS SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)". (SEE MAX WIDTH SIGN DETAIL SHEET)

TEMPORARY RUMBLE STRIPS, TEMPORARY SIGNING, TEMPORARY BARRIER WALL REFLECTORS, SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD 701321 OR AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL NOTIFY LARRY SIMON (PH. 785-5836) IN THE DISTRICT 6 TRAFFIC SECTION OF THE BUREAU OF OPERATIONS AT LEAST ONE WEEK PRIOR TO IMPLEMENTING STAGE TRAFFIC CONTROL.

THE FIRST AND LAST SECTION OF EVERY RUN OF TEMPORARY CONCRETE BARRIER WALL SHALL BE SECURED TO THE PAVEMENT WITH DOWEL BARS IN ACCORDANCE WITH SECTION 704.06 OF THE STANDARD SPECIFICATIONS BOOK.

THE CONTRACTOR SHALL NOTIFY KYLE ARMSTRONG (PH. 558-6523) IN THE DISTRICT 6 TRAFFIC SECTION OF THE BUREAU OF OPERATIONS AT LEAST THREE DAYS PRIOR TO ACTIVATING THE TEMPORARY TRAFFIC SIGNALS.

48"X48" SIGNS ARE TO BE USED FOR THE ROAD CLOSURE OF T.R. 318.

THIS TRAFFIC CONTROL PLAN WAS LAYED OUT WITH CONCRETE BARRIER WALLS AT 10'-0" LENGTHS. THE CONTRACTOR WILL HAVE THE OPTION OF USING 12'-6" WALL LENGTHS AS CALLED OUT IN STD. 704001-02 OR THE 10'-0" LENGTHS AS SHOWN IN THESE PLANS.

SAWCUTS FOR PROPOSED SHOULDER WORK SHALL BE INCLUDED IN THE COSTS FOR "BITUMINOUS CONCRETE SHOULDER REMOVAL".

LEGEND

- BITUMINOUS WEARING SURFACE REMOVAL
- STRUCTURE REMOVAL
- PAVEMENT OR BIT. BASE COURSE REMOVAL
- EXISTING BITUMINOUS SHOULDER REMOVAL
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- WHITE BI-DIRCECTIONAL TEMP. PAVEMENT MARKER
- DRUM WITH STEADY BURN LIGHT
- MICROWAVE DETECTOR SYSTEM
- DIRECTION OF TRAFFIC
- TEMPORARY TRAFFIC SIGNAL
- INDUCTION LOOP DETECTOR
- TEMP. IMPACT ATTENUATOR (NON REDIRECT) TL 3
- TYPE III BARRICADE
- (1) TEMPORARY PAVEMENT MARKING - LINE 5"
- (2) TEMPORARY PAVEMENT MARKING - LINE 24"
- TEMP. IMPACT ATTENUATOR (FULLY REDIRECT NARROW) TL 3

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC & STAGING PLANS
STAGE IV

FAP 777 (IL RTE. 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT.
HORIZ.

DRAWN BY RTS

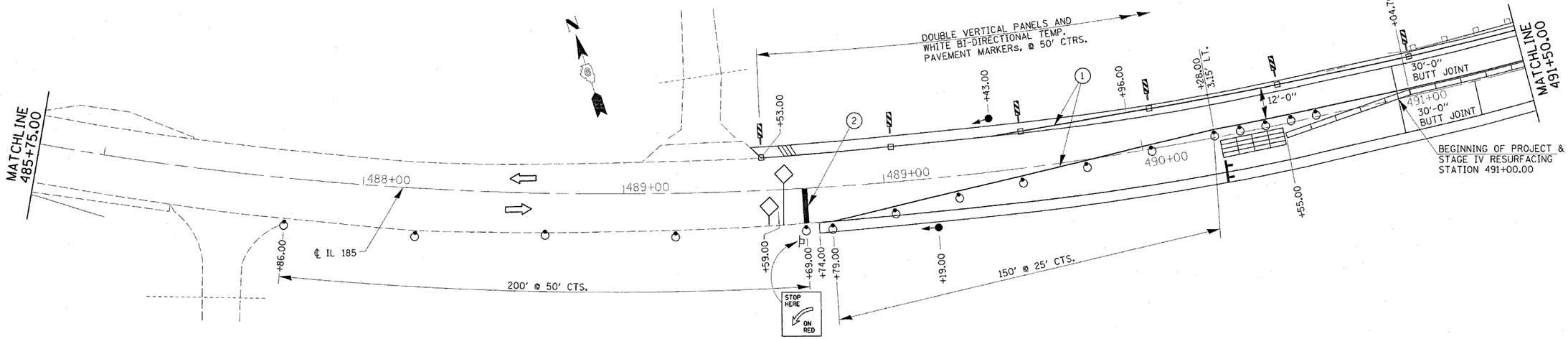
DATE

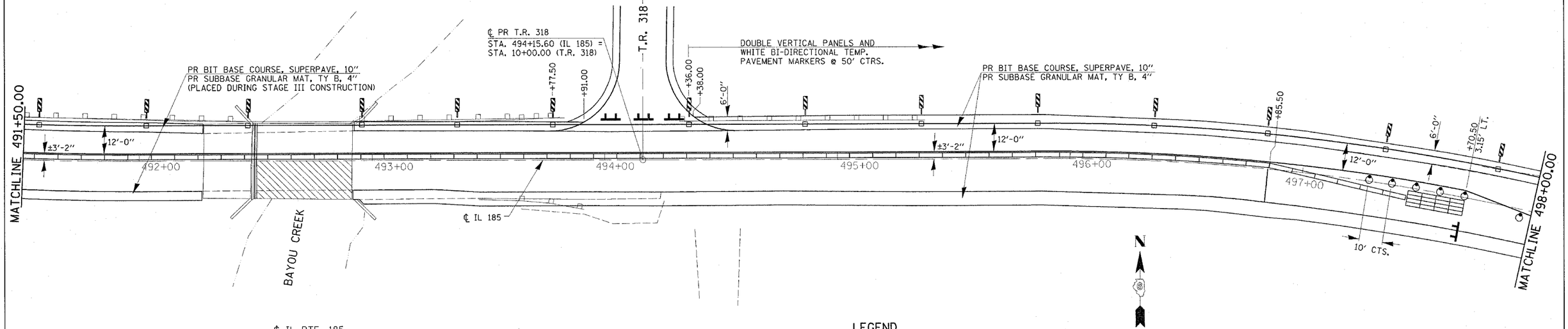
CHECKED BY

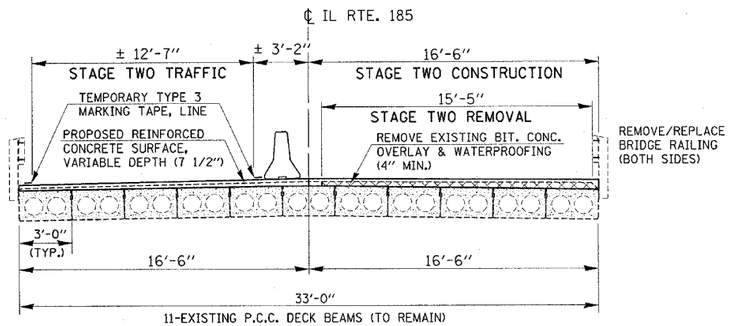
PLOT DATE = 1/23/2006
FILE NAME = c:\projects\ed53694\stage.dgn
PLOT SCALE = 20.0000 ' / IN.
USER NAME = sloglert

CONTRACT NO. 92667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	37
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		







STAGE II BAYOU CREEK STRUCTURE
TYPICAL SECTION
(LOOKING EAST)

LEGEND

- BITUMINOUS WEARING SURFACE REMOVAL
- STRUCTURE REMOVAL
- PAVEMENT OR BIT. BASE COURSE REMOVAL
- EXISTING BITUMINOUS SHOULDER REMOVAL
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- WHITE BI-DIRCECTIONAL TEMP. PAVEMENT MARKER
- DRUM WITH STEADY BURN LIGHT
- MICROWAVE DETECTOR SYSTEM
- DIRECTION OF TRAFFIC
- TEMPORARY TRAFFIC SIGNAL
- INDUCTION LOOP DETECTOR
- TEMP. IMPACT ATTENUATOR (NON REDIRECT) TL 3
- TYPE III BARRICADE
- (1) TEMPORARY PAVEMENT MARKING - LINE 5"
- (2) TEMPORARY PAVEMENT MARKING - LINE 24"
- TEMP. IMPACT ATTENUATOR (FULLY REDIRECT NARROW) TL 3

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC & STAGING PLANS
STAGE IV

FAP 777 (IL RTE. 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT.
HORIZ.
DATE

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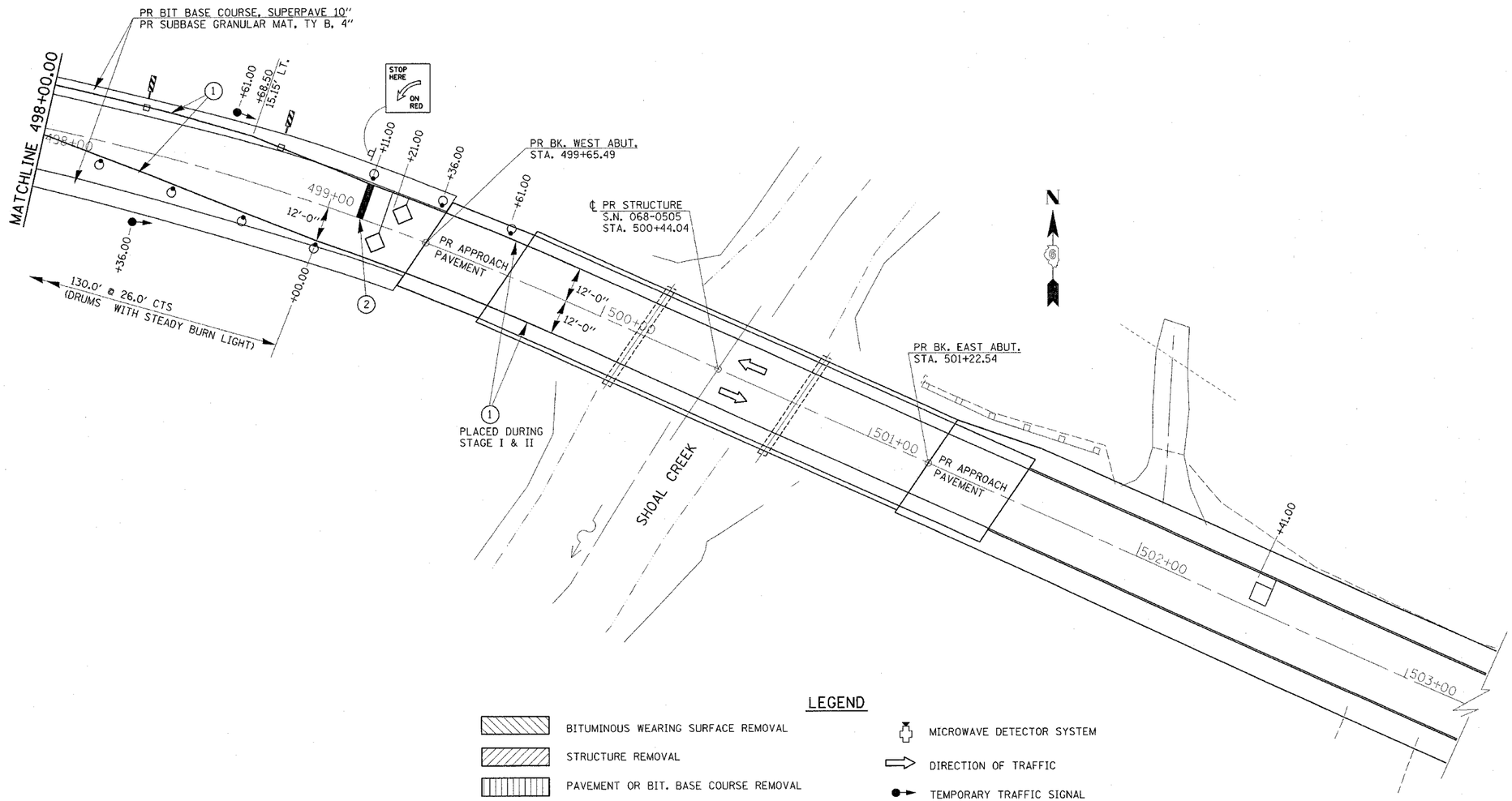
PLOT DATE = 1/23/2006
FILE NAME = c:\projects\ed53694\stage.dgn
PLOT SCALE = 20.0000 ' / IN.
USER NAME = slaglart

CONTRACT NO. 92667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	38
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND

- BITUMINOUS WEARING SURFACE REMOVAL
- STRUCTURE REMOVAL
- PAVEMENT OR BIT. BASE COURSE REMOVAL
- EXISTING BITUMINOUS SHOULDER REMOVAL
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL
- WHITE BI-DIRCECTIONAL TEMP. PAVEMENT MARKER
- DRUM WITH STEADY BURN LIGHT
- MICROWAVE DETECTOR SYSTEM
- DIRECTION OF TRAFFIC
- TEMPORARY TRAFFIC SIGNAL
- INDUCTION LOOP DETECTOR
- TEMP. IMPACT ATTENUATOR (NON REDIRECT) TL 3
- TYPE III BARRICADE
- (1) TEMPORARY PAVEMENT MARKING - LINE 5"
- (2) TEMPORARY PAVEMENT MARKING - LINE 24"
- TEMP. IMPACT ATTENUATOR (FULLY REDIRECT NARROW) TL 3

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC & STAGING PLANS STAGE IV

FAP 777 (IL RTE. 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT.
HORIZ.
DRAWN BY RTS
DATE
CHECKED BY

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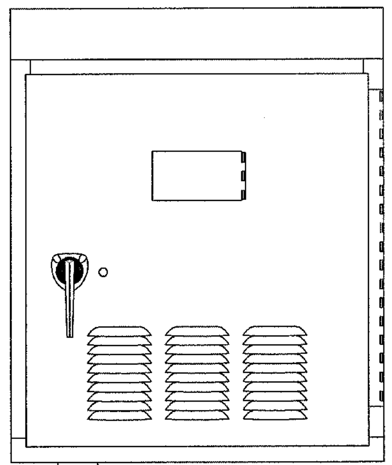
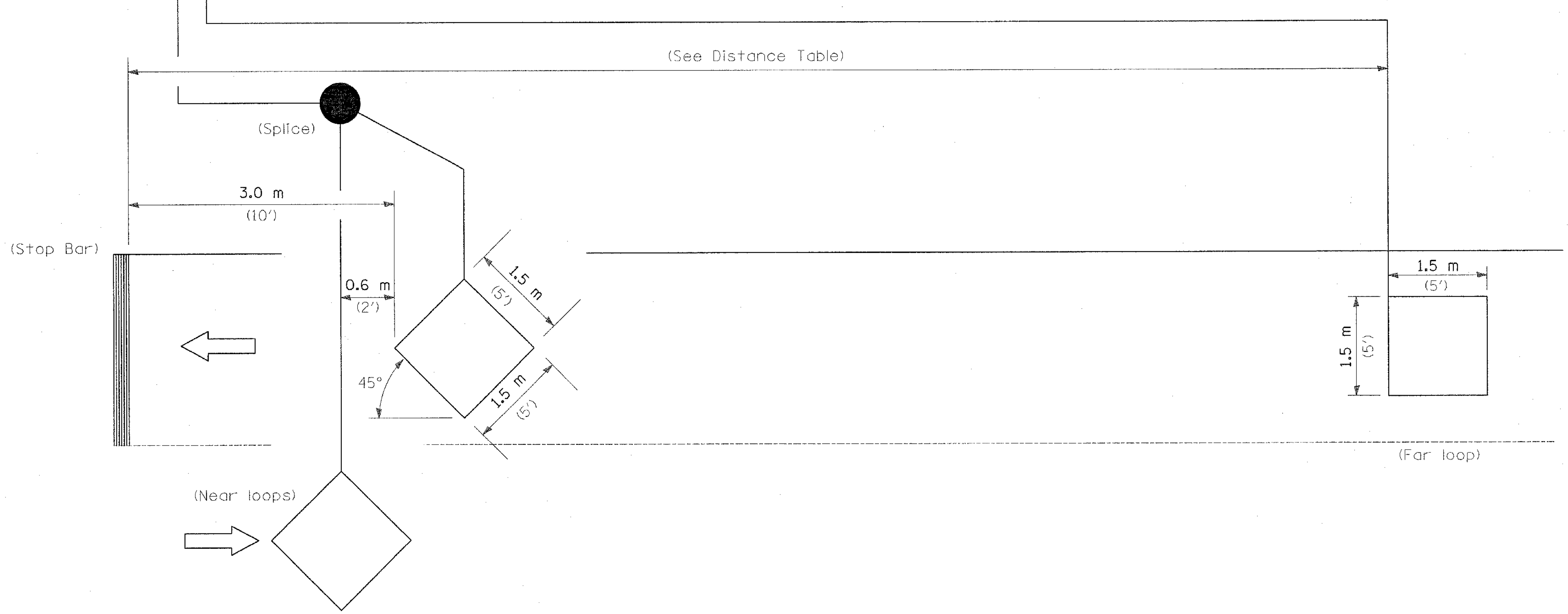
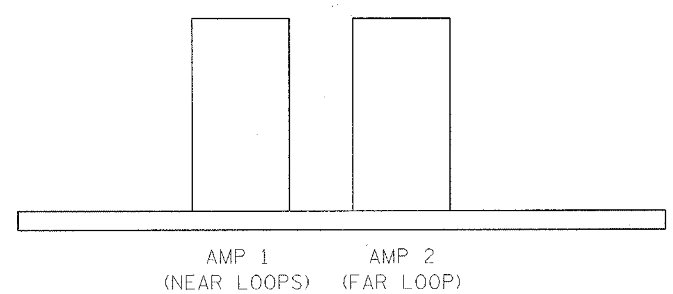


Temporary Controller Cabinet



DETECTOR AMPLIFIER NOTES



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

AMP 2: NO DELAY

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

NOTE: All loops centered in lane.

INDUCTION LOOP DETECTOR

BRIDGE-TEMP.DGN
DATE: JUNE 16, 2004

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY BRIDGE TRAFFIC SIGNAL
LOOP PLACEMENT DETAIL SHEET

FAP 777 (IL RTE. 185)
EAST FORK SHOAL CREEK
SECTION 10 B-1
MONTGOMERY COUNTY

SCALE: VERT. HORIZ.
DATE
DRAWN BY KDA
CHECKED BY

PLOT DATE = 1/9/2006
FILE NAME = c:\projects\ed5369\stage.dgn
PLOT SCALE = 20.0000 ' / IN.
USER NAME = slogert

CONTRACT NO. 92667

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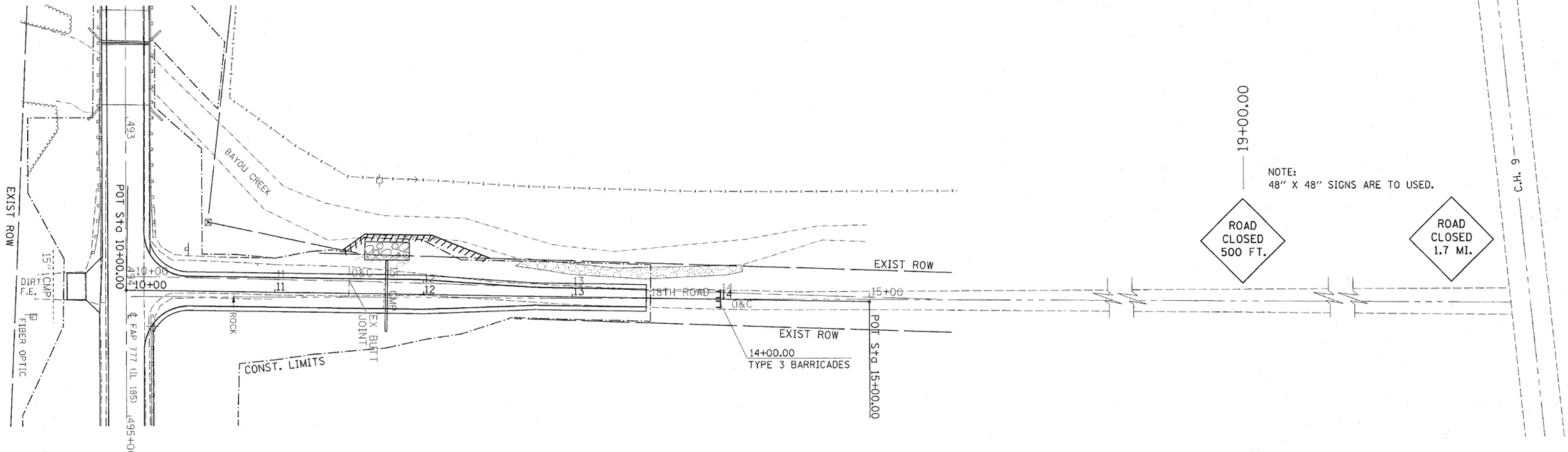
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTE:
48" X 48" SIGNS ARE TO USED.

ROAD CLOSED 500 FT.

ROAD CLOSED 1.7 MI.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SIGNING
FOR T.R. 318
FAP 777 RTE. 185
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT.
HORIZ.
DATE

DRAWN BY RTS
CHECKED BY

PLOT DATE = 1/9/2006
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USER NAME = alaglert

CONTRACT NO. 92667

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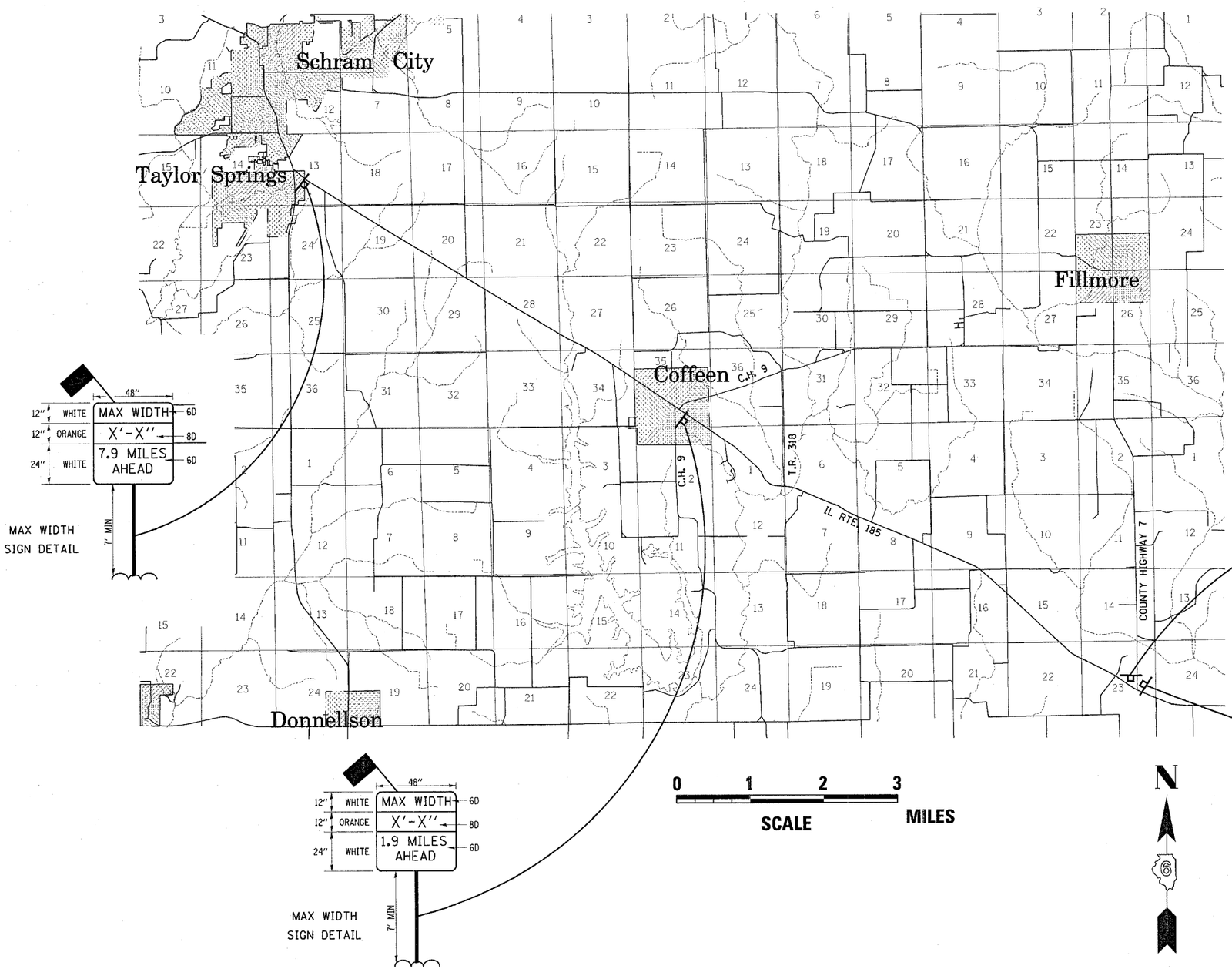
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



48"
12" WHITE MAX WIDTH 6D
12" ORANGE X'-X'' 8D
24" WHITE 7.9 MILES AHEAD 6D
7' MIN

MAX WIDTH SIGN DETAIL

48"
12" WHITE MAX WIDTH 6D
12" ORANGE X'-X'' 8D
24" WHITE IL RTE 185 5.5 MI AHEAD 6D
7' MIN

MAX WIDTH SIGN DETAIL

48"
12" WHITE MAX WIDTH 6D
12" ORANGE X'-X'' 8D
24" WHITE 1.9 MILES AHEAD 6D
7' MIN

MAX WIDTH SIGN DETAIL

48"
12" WHITE MAX WIDTH 6D
12" ORANGE X'-X'' 8D
24" WHITE 5.5 MILES AHEAD 6D
7' MIN

MAX WIDTH SIGN DETAIL

GENERAL NOTES:

ACTUAL MAX WIDTHS ARE TO BE MEASURED BY THE ENGINEER AFTER TEIMPORARY CONCRETE BARRIER WALL IS PLACED FOR STAGE I. WIDTH SHALL BE REMEASURED AND SIGNS UPDATED FOR STAGE II.

MAX WIDTH SIGNS SHALL BE PAYED FOR AS ONE LUMP SUM UNDER "WIDTH RESTRICTION SIGNING" (PAY CODE # X7200201)

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MAXIMUM WIDTH SIGNING DETAILS

FAP 777 (IL RTE. 185)
EAST FORK SHOAL CREEK
SECTION 10 B-1
MONTGOMERY COUNTY

SCALE: VERT.
HORIZ.
DATE

DRAWN BY R.T.S.
CHECKED BY

PLOT DATE = 1/9/2006
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CONTRACT NO. 92667

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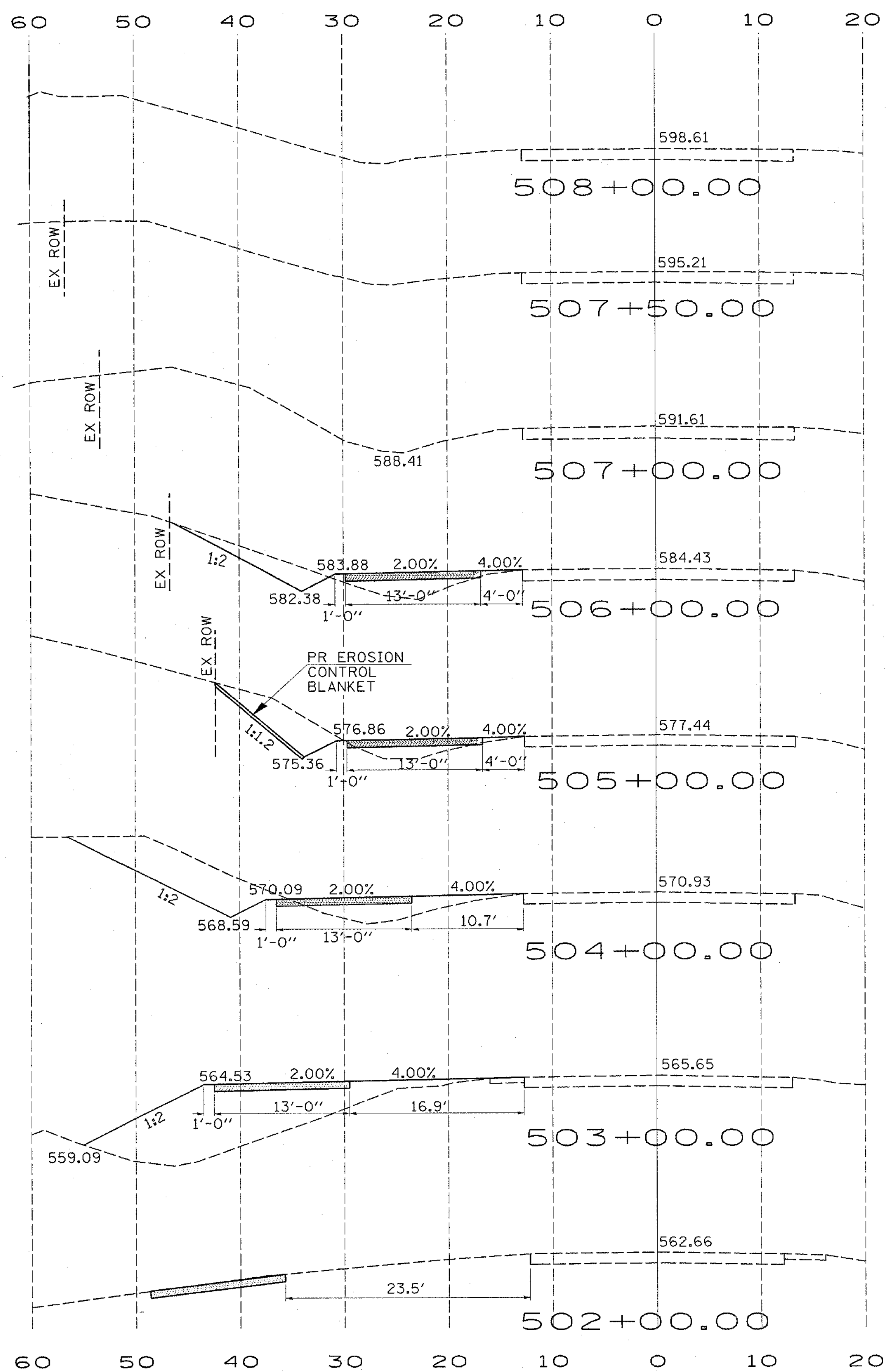
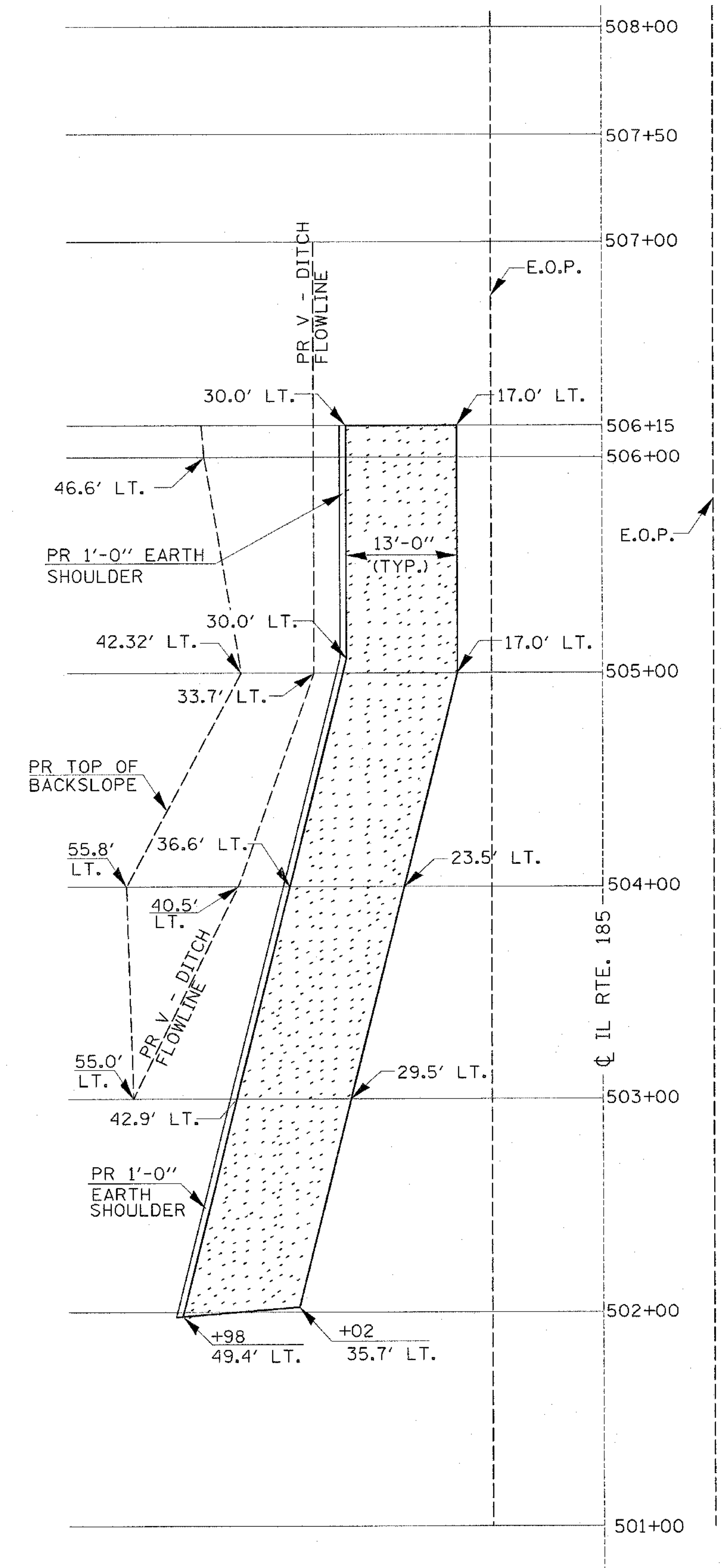
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





TEMPORARY AGGREGATE ACCESS DRIVE (AGGREGATE SURFACE COURSE, TYPE A, 8")

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY ACCESS DRIVE DETAILS

FAP 777 (IL RTE. 185)
EAST FORK SHOAL CREEK
SECTION 10 B-1
MONTGOMERY COUNTY

SCALE: VERT. HORIZ.
DATE

DRAWN BY R.T.S.
CHECKED BY

PLOT DATE = 1/9/2006
FILE NAME = c:\projects\ed53694\stage.dgn
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USER NAME = slegler

CONTRACT NO. 92667

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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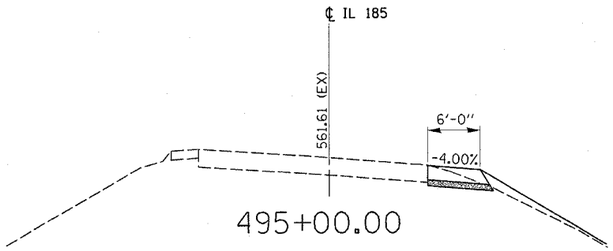
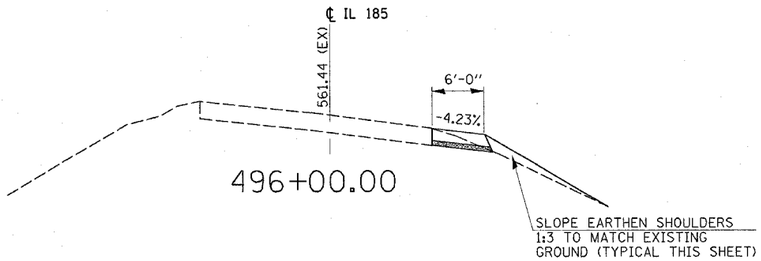
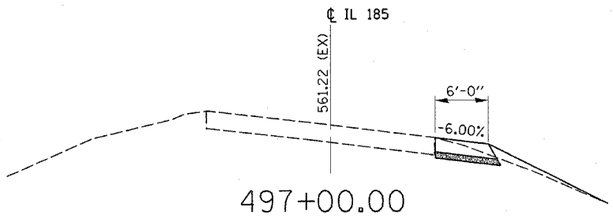
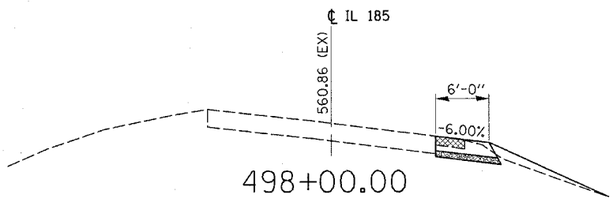
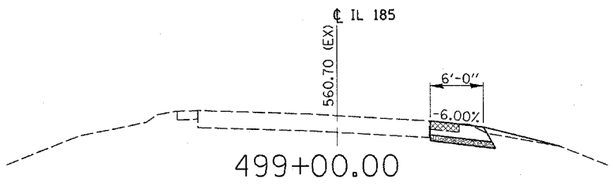
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

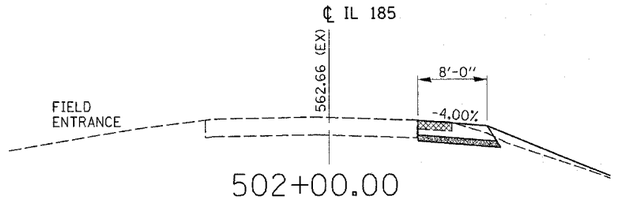


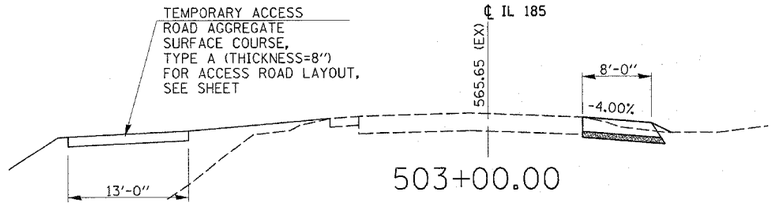


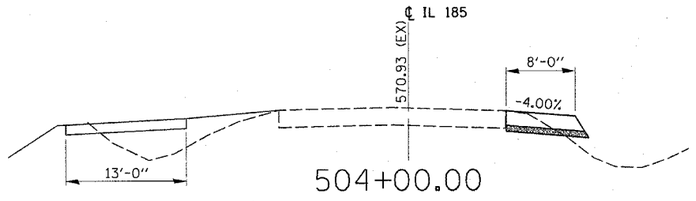


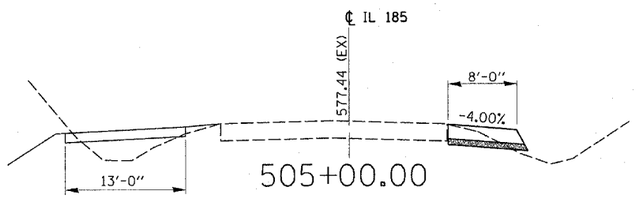


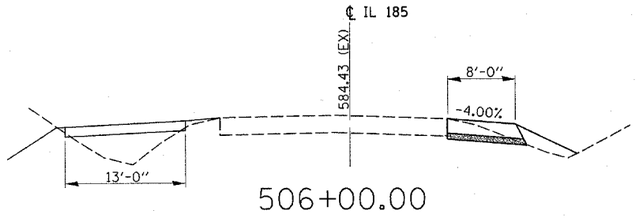












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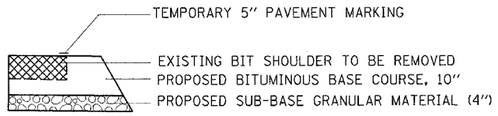

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PRELIMINARY STAGE I
CROSS SECTIONS
FAP 777 RTE. 185
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT.
HORIZ.
DRAWN BY RTS
DATE
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PLOT DATE = 1/9/2006
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PLOT SCALE = 40.0000 '/ IN
USER NAME = slaglert

CONTRACT NO. 92667

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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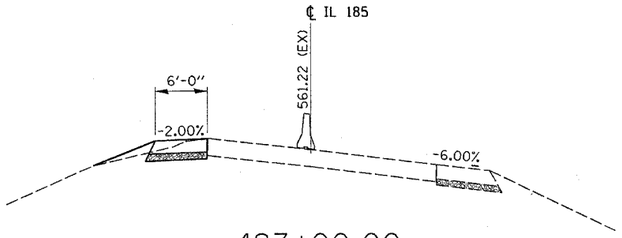
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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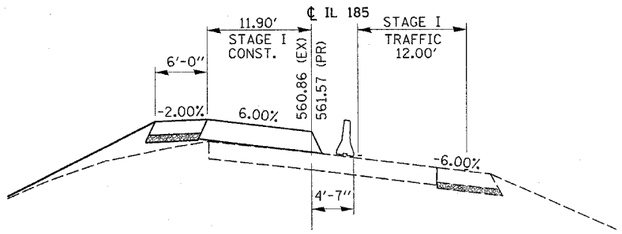

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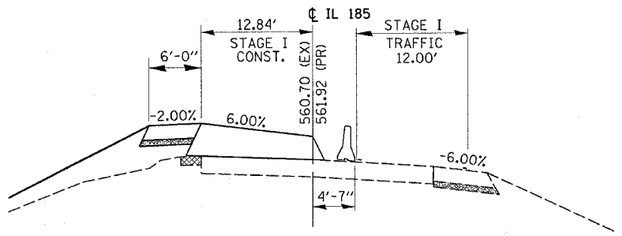

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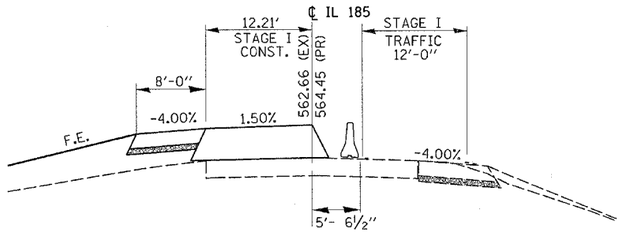

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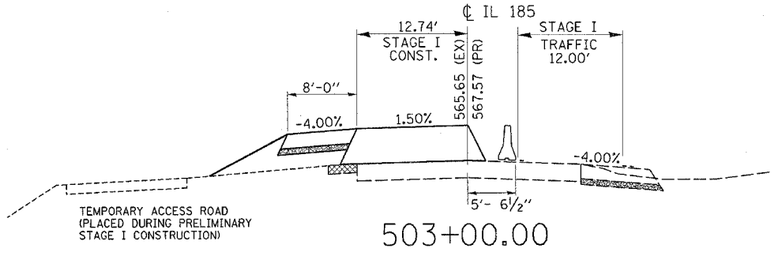

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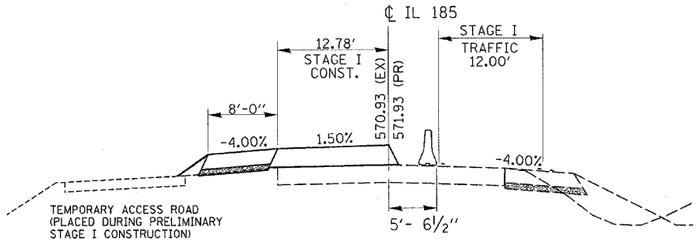

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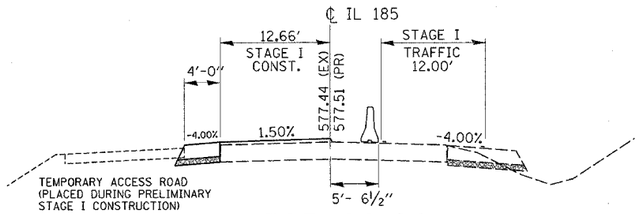

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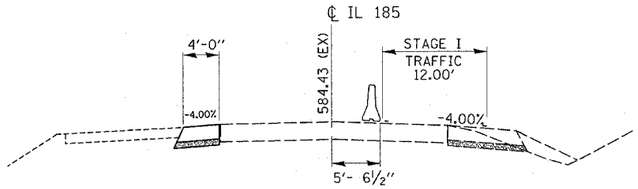

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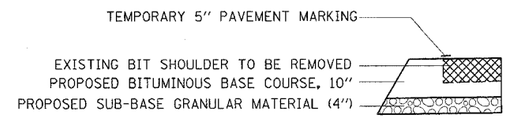

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STAGE 1 CROSS SECTIONS

FAP 777 RTE. 185
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT.
HORIZ.
DATE

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CONTRACT NO. 92667

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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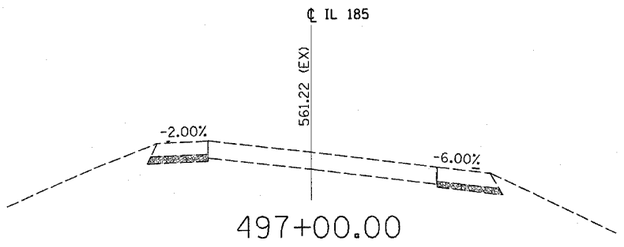
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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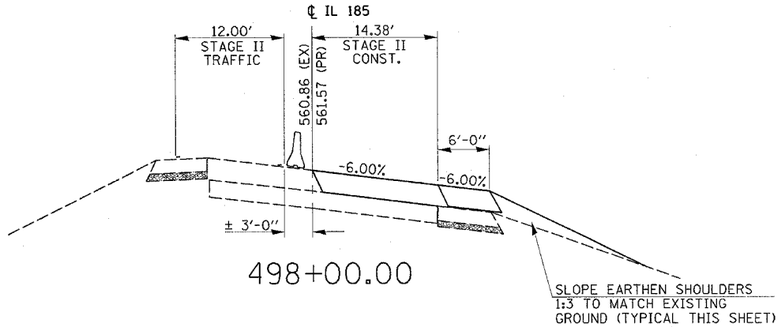

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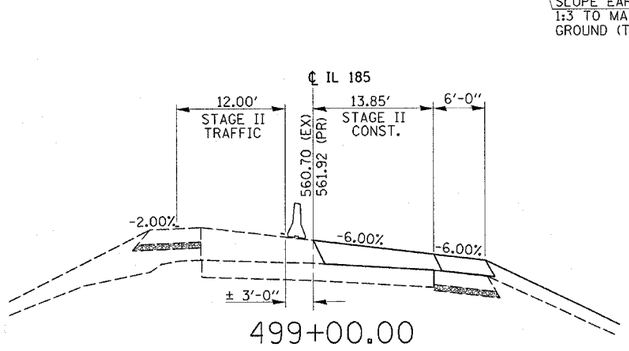

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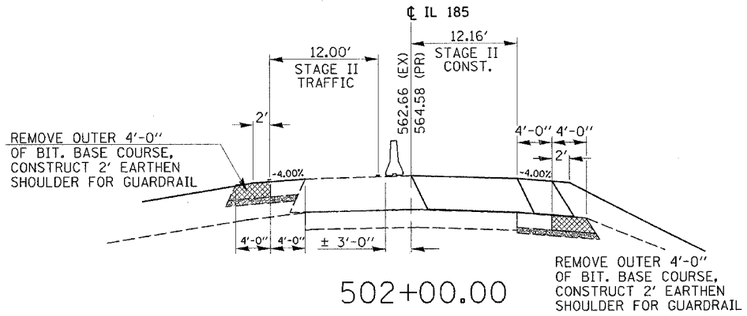

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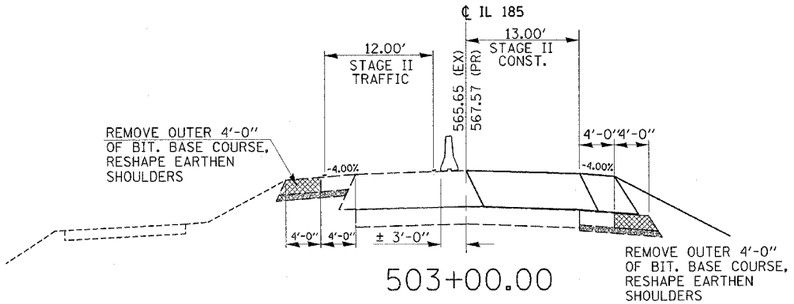

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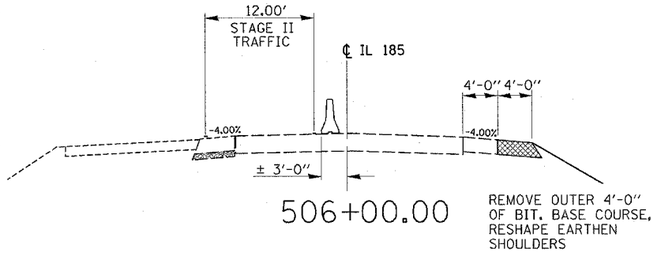

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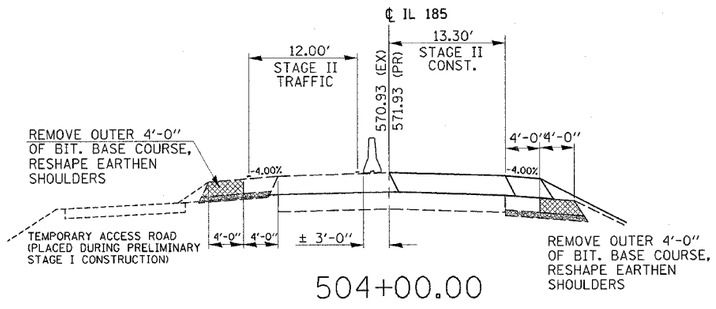

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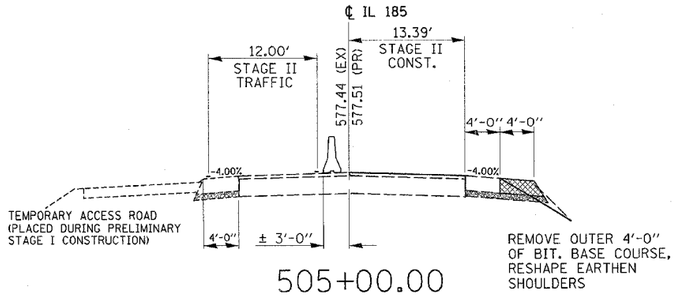


505+00.00

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STAGE 2 CROSS SECTIONS

FAP 777 RTE. 185
SECTION10(B-1, BR-2)
MONTGOMERY COUNTY

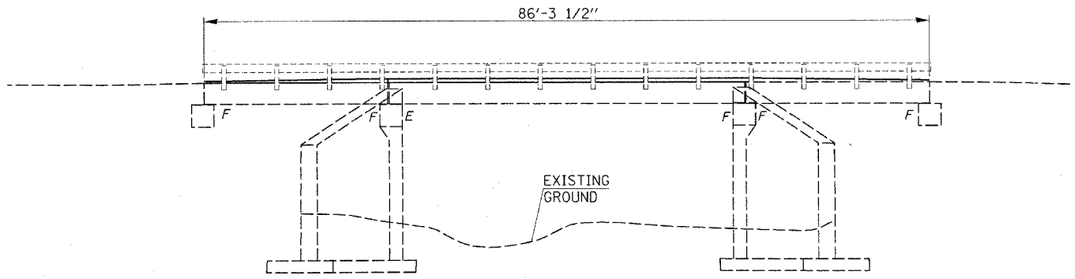
SCALE: VERT.
HORIZ.
DATE

DRAWN BY RTS
CHECKED BY

PLOT DATE = 1/23/2006
FILE NAME = c:\projects\wd53634\details.dgn
PLOT SCALE = 40.000 ' / IN.
USER NAME = slogiert

CONTRACT# 92667

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10(B-1, BR-2)	MONTGOMERY	104	46
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

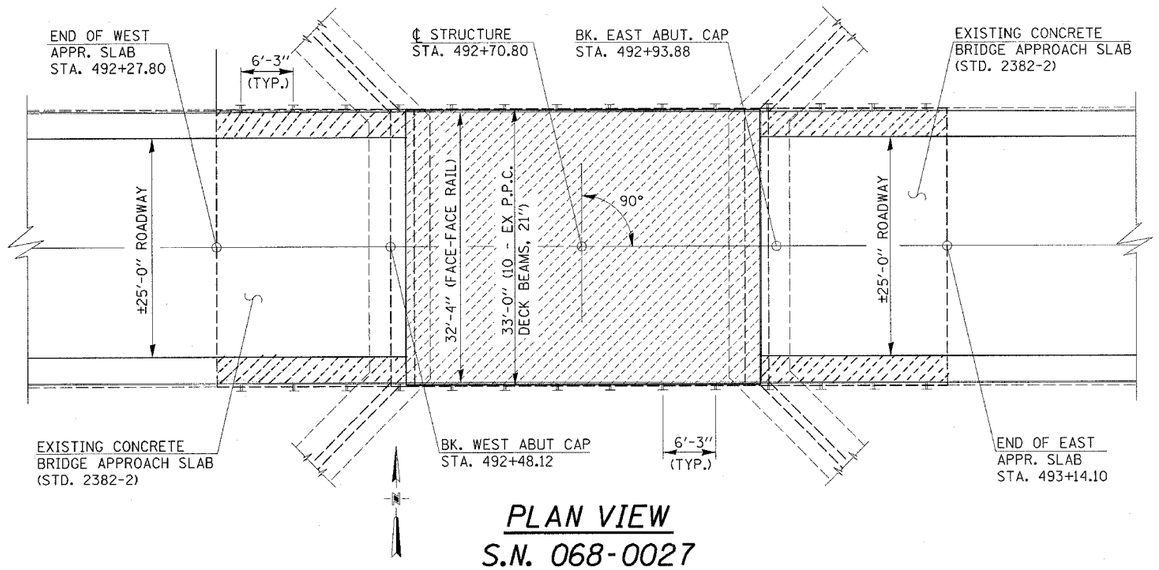


ELEVATION VIEW
S.N. 068-0027

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS OF THE EXISTING STRUCTURE ARE TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBLITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND TO MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. SUCH VARIATION SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE CONTRACT UNIT PRICE FOR THE WORK.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31, OR M-322 GRADE 60.



PLAN VIEW
S.N. 068-0027

— INDICATES LIMITS OF:
PR BITUMINOUS CONCRETE SURFACE REMOVAL COMPLETE
PR REINFORCED CONCRETE WEARING SURFACE
PR BRIDGE DECK GROOVING (EXCEPT ON APPROACHES)

* FOR DETAILS SEE SHEET 3 OF 7

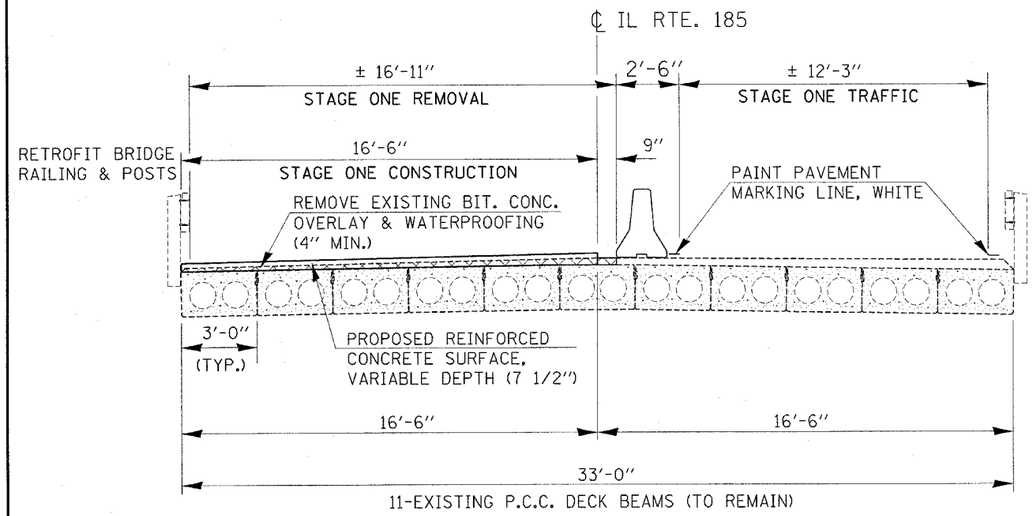
TOTAL BILL OF MATERIAL		
ITEM	UNIT	TOTAL
CONCRETE WEARING SURFACE	SQ YD	191.5
BAR SPLICERS	EACH	47
REINFORCEMENT BARS, EPOXY COATED	POUND	3840
BRIDGE DECK GROOVING	SQ YD	146
BIT CONC SURF REM COMP	SQ YD	191.5
KEYWAY REPAIR	FOOT	116
PROTECTIVE COAT	SQ YD	155
BEARING PAD ADJUSTMENT	EACH	22
POLYMER CONCRETE	CU FT	2.2
SILICONE JOINT SEALER, 1 1/2"	FOOT	33
REMOVE AND REINSTALL STEEL BRIDGE RAIL, TYPE S-1	FOOT	173
CONCRETE REMOVAL	CU. YD	2.1
CONCRETE SUPERSTRUCTURE	CU. YD	2.1

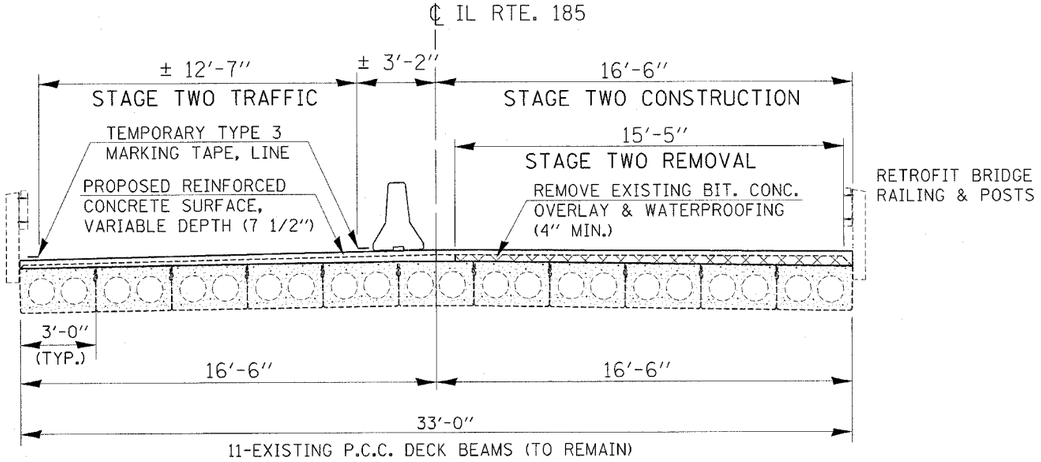
DRAWN BY RTS

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN AND ELEVATION
S.N. 068-0027
FAP 777 (IL 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

CONTRACT# 92667

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10(B-1, BR-2)	MONTGOMERY	104	42
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

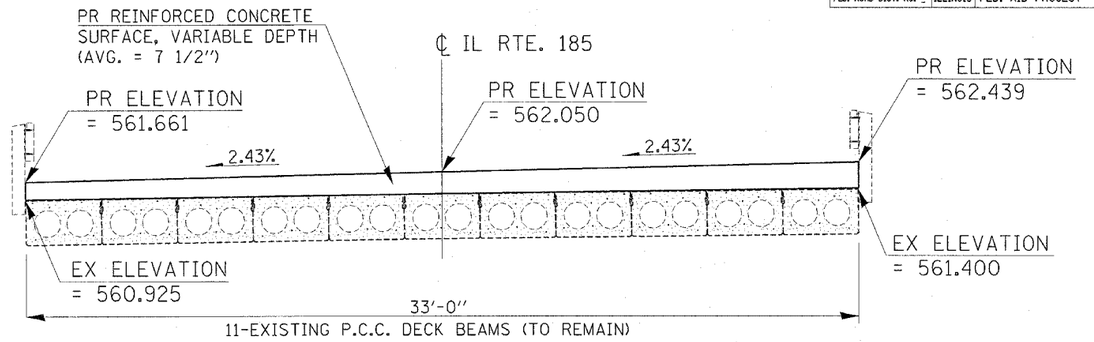




STAGE CONSTRUCTION

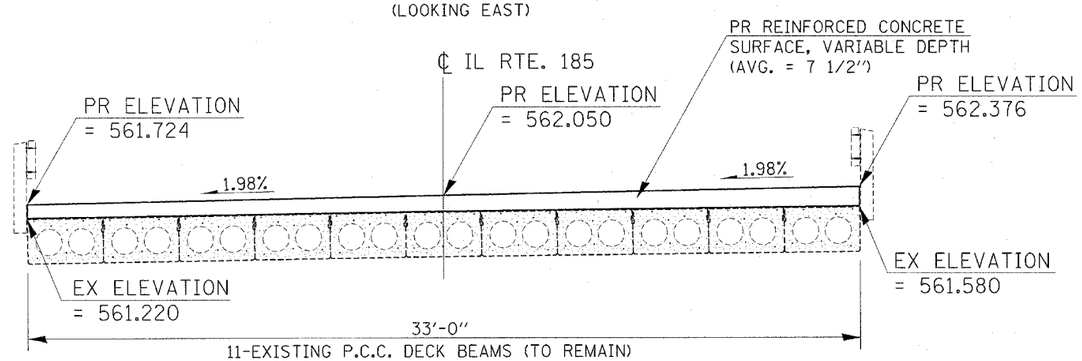
(LOOKING EAST)

NOTE:
ADJUST PROPOSED STEEL BRIDGE RAILING ACCORDINGLY TO ADDRESS THE CHANGE IN OVERLAY THICKNESS (BOTH SIDES OF STRUCTURE, TYPICAL)



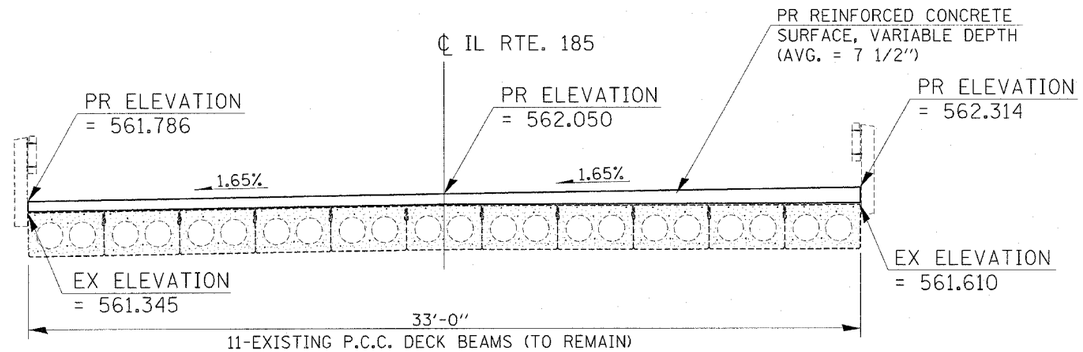
WEST ABUTMENT
(STA. 492+49.95)

(LOOKING EAST)



CENTERLINE
(STA. 492+70.80)

(LOOKING EAST)



NOTE:
ADJUST PROPOSED STEEL BRIDGE RAILING ACCORDINGLY TO ADDRESS THE CHANGE IN OVERLAY THICKNESS (BOTH SIDES OF STRUCTURE, TYPICAL)

EAST ABUTMENT
(STA. 492+92.13)

(LOOKING EAST)

PROPOSED ELEVATIONS

(LOOKING EAST)

DRAWN BY RTS

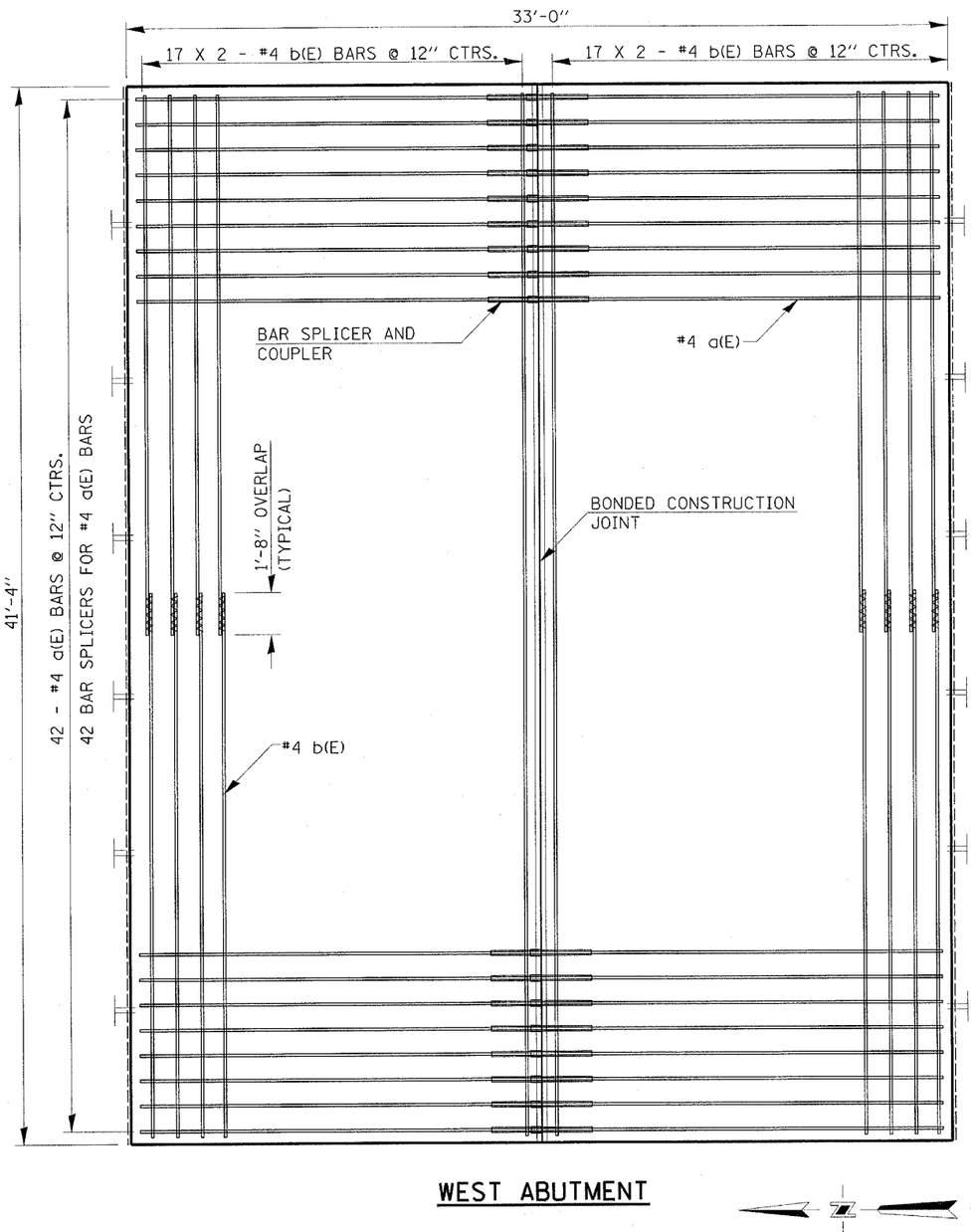
ILLINOIS DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION & PROPOSED SURFACE ELEVATIONS

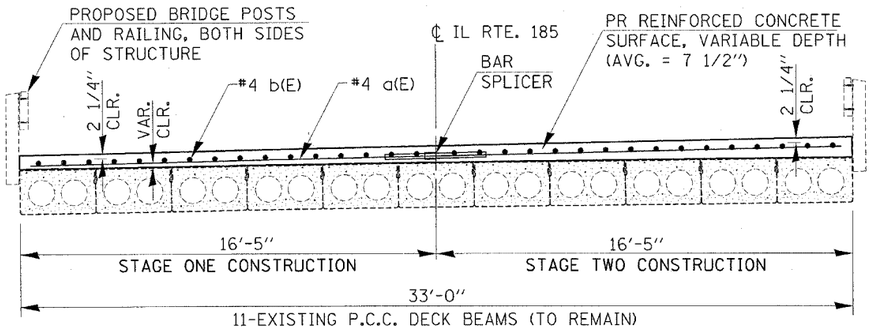
S.N. 068-0027
FAP 777 (IL 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	48
STA. _____	TO STA._____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

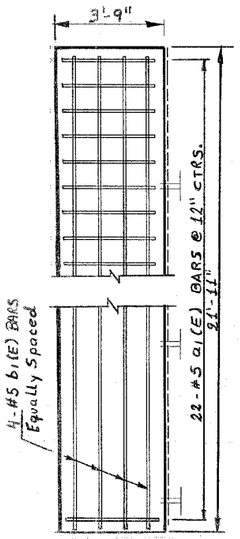
EAST ABUTMENT



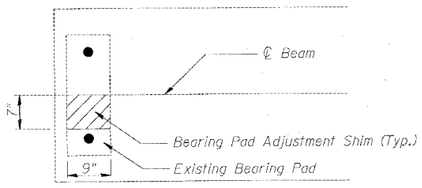
WEST ABUTMENT



PROPOSED SECTION LOOKING EAST



APROACH SLAB OVER NELSON BEAMS
(Typical all corners)



BEARING PAD ADJUSTMENT SHIM

BILL OF MATERIAL				
BAR	No.	SIZE	LENGTH	SHAPE
a(E)	84	#5	16'-3"	——
a_1(E)	88	#5	3'-5"	——
b(E)	68	#5	21'-4"	——
b_1(E)	16	#5	21'-7"	——
REINFORCEMENT BARS, EPOXY COATED			POUND	3610

DRAWN BY RTS

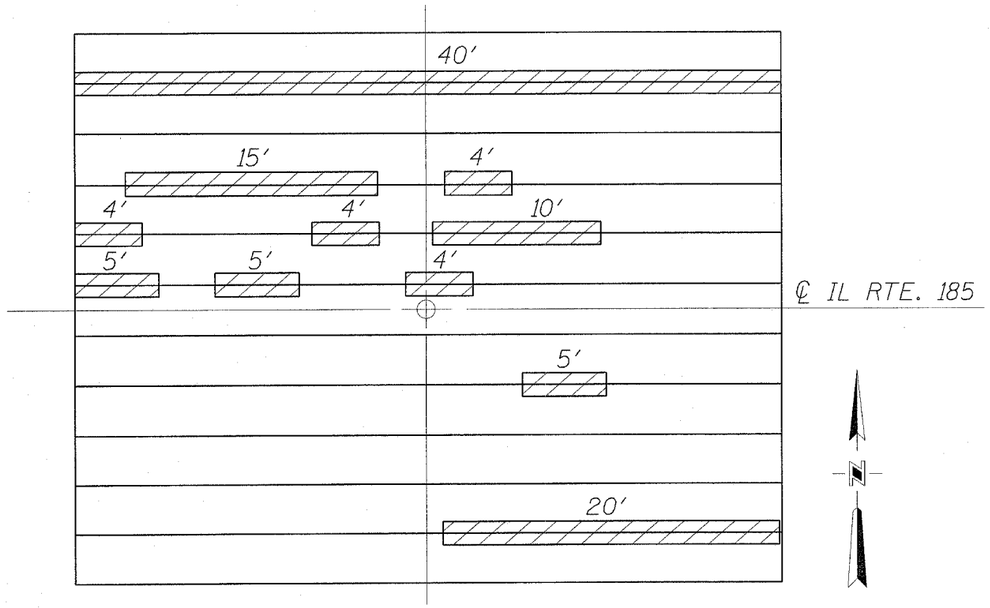
ILLINOIS DEPARTMENT OF TRANSPORTATION

REBAR / BAR SPLICER LAYOUT

S.N. 068-0027
FAP 777 (IL 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

CONTRACT# 92667

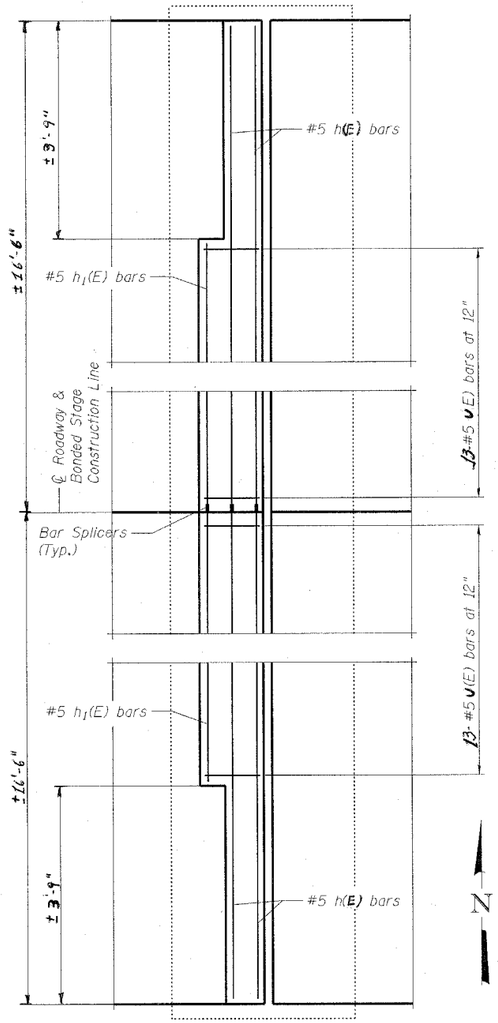
FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	43
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



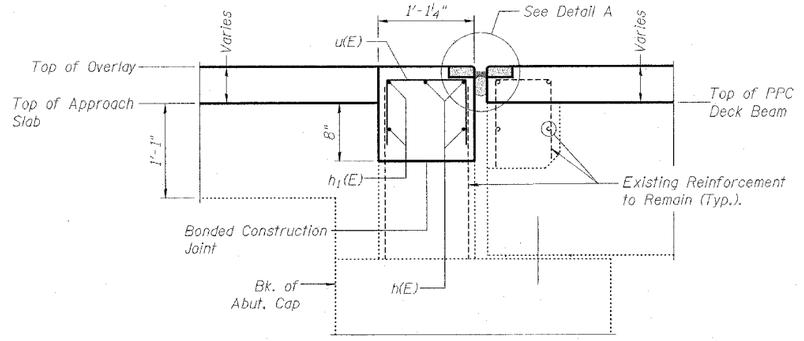
▨ -- PROPOSED KEYWAY REPAIR

NOTE: THE QUANTITY GIVEN FOR KEYWAY REPAIRS IS AN ESTMATE. THE ACTUAL KEYWAY REPAIR LOCATIONS AND QUANTITY SHALL BE DETERMINED BY THE ENGINEER AFTER REMOVAL OF EXISTING WEARING SURFACE.

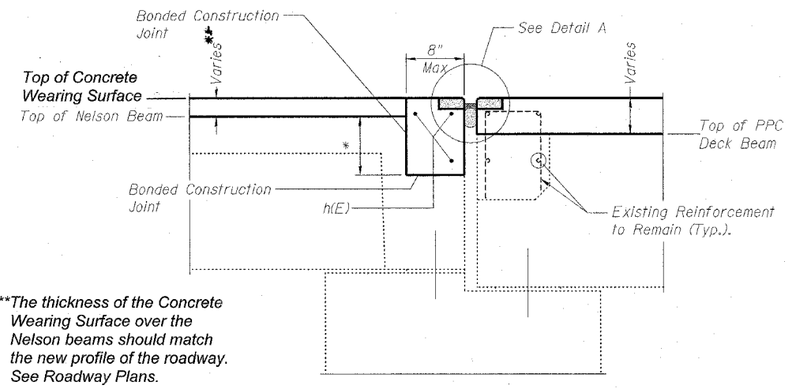
KEYWAY REPAIR
PLAN VIEW
S.N. 068-0027



*** PARTIAL DECK PLAN AT WEST ABUTMENT



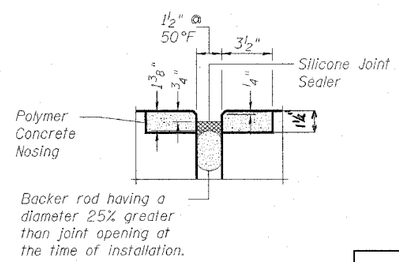
SECTION THRU WEST ABUTMENT CAP
(at ℄ Roadway)



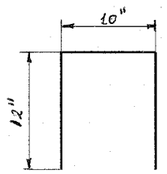
**The thickness of the Concrete Wearing Surface over the Nelson beams should match the new profile of the roadway. See Roadway Plans.

SECTION THRU WEST ABUTMENT CAP
(at Shoulder)
*8" max at S.W. corner
3" at N.W. corner

*** BILL OF MATERIAL				
BAR	No.	SIZE	LENGTH	SHAPE
u(E)	26	#5	2'-10"	⊓
h(E)	6	#5	16'-2"	——
h_1(E)	4	#5	12'-6"	——
REINFORCEMENT BARS, EPOXY COATED			POUNDS	230
CONCRETE REMOVAL			CU. YD.	2.1
CONCRETE SUPERSTRUCTURE			CU. YD.	2.1



DETAIL A



Bar u(E)

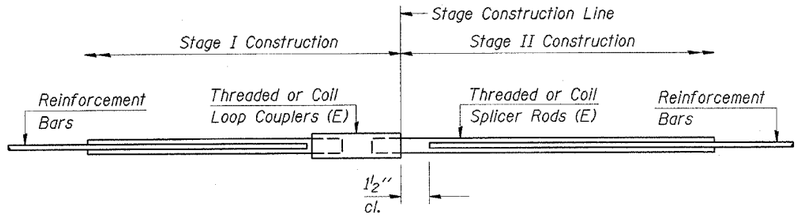
SHEET 4 OF 7

ILLINOIS DEPARTMENT OF TRANSPORTATION
KEYWAY REPAIR DETAILS

S.N. 068-0027
FAP 777 (IL 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

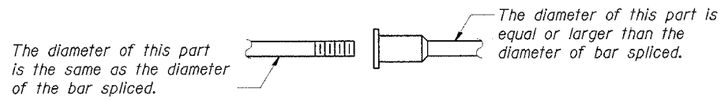
CONTRACT# 92667

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	50
STA. _____	TO STA._____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



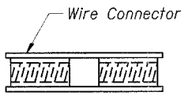
SPLICER DETAIL

Bar Size	No. Assemblies Required	Location
#4	42	DECK
#5	5	W. ABUTMENT



ROLLED THREAD DOWEL BAR

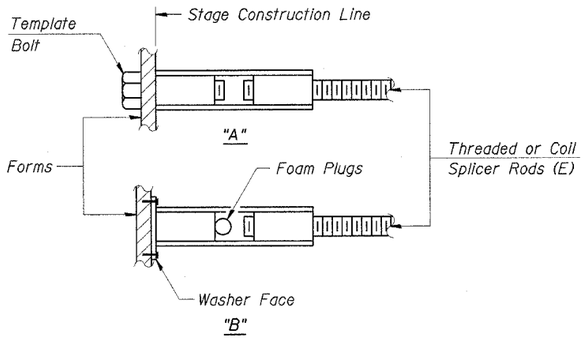
** ONE PIECE



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) = $1.25 \times fy \times A_t$

② Minimum *Pull-out Strength (Tension in kips) = $1.25 \times fs_{allow} \times A_t$

Where fy = Yield strength of lapped reinforcement bars in ksi.
fs_{allow} = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
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
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

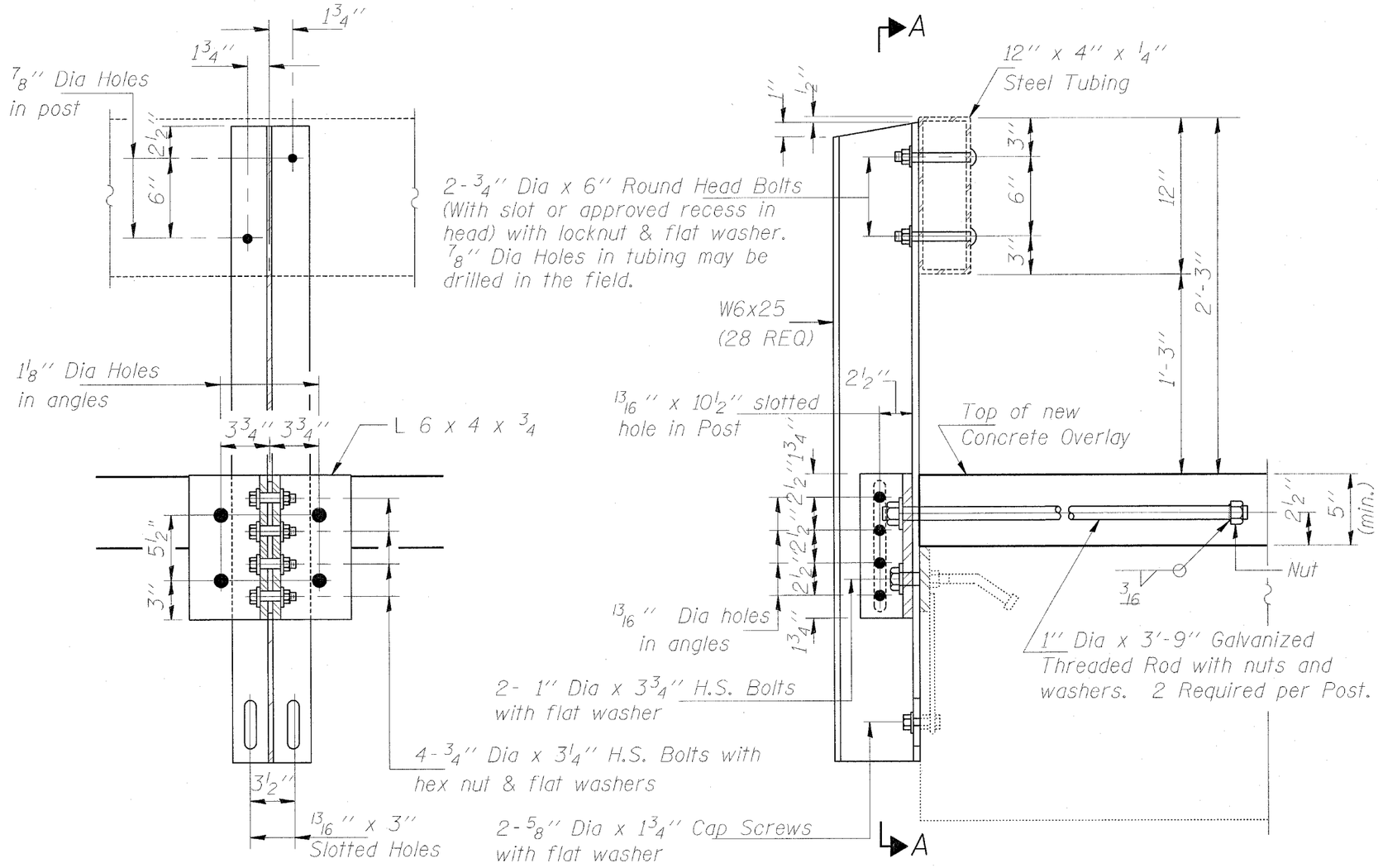
ILLINOIS DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY

S.N. 068-0027
FAP 777 (IL 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

CONTRACT # 92667

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	51
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



SECTION A-A

SECTION AT RAIL POST

RAIL RETROFIT

(At PPC Deck Beams and Approaches)

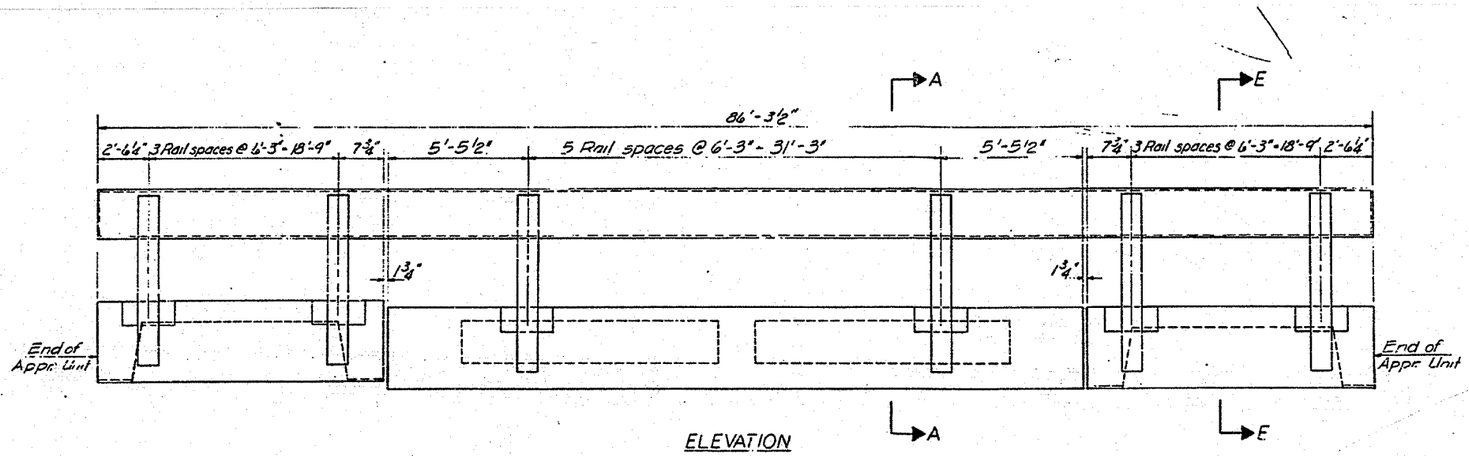
NOTE:
ALL NOTES ON SHEET 7 OF 7 FOR THE EXISTING RAIL PLANS SHALL APPLY TO ALL NEW STEEL USED FOR INSTALLATION OF THE NEW RAIL POST, ANGLES AND RELATED HARDWARE SHOWN ABOVE.

ILLINOIS DEPARTMENT OF TRANSPORTATION

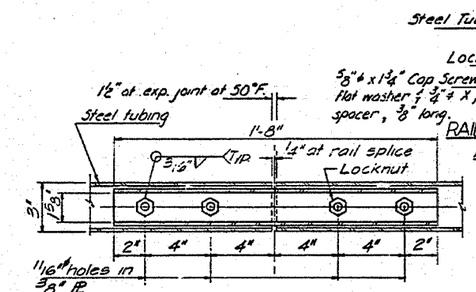
RAILING RETROFIT

S.N. 068-0027
FAP 777 (IL 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

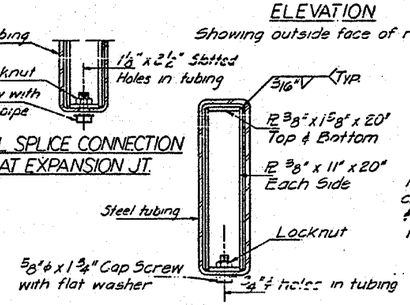
FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	52
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



ELEVATION
Showing outside face of railing

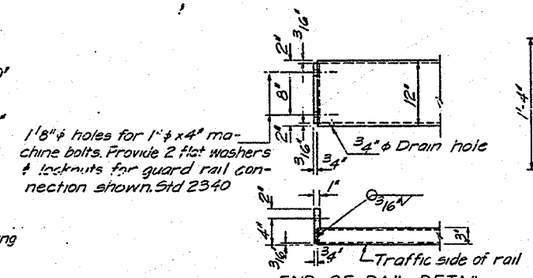


LONGITUDINAL SECTION AT RAIL SPLICE
(Showing Bottom Splice PL)

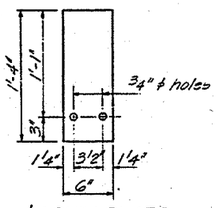


RAIL SPLICE CONNECTION AT EXPANSION JT.

SECTION AT RAIL SPLICE



END OF RAIL DETAIL



¼" SHIM PLATE

Hollow structural steel tubing shall conform to the requirements of A.S.T.M. designation A-500 Grade B Structural Steel Tubing.

All other steel shapes and plates shall conform to the requirements of A.A.S.H.T.O. M-183 except posts and angles shall conform to A.A.S.H.T.O M-223, Grade 50.

Bolts, cap screws, and nuts shall conform to the requirement of A.S.T.M. designation A-307 except for high strength bolts, nuts and washers noted which shall conform to A.A.S.H.T.O. M-164.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with A.A.S.H.T.O. M-232.

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

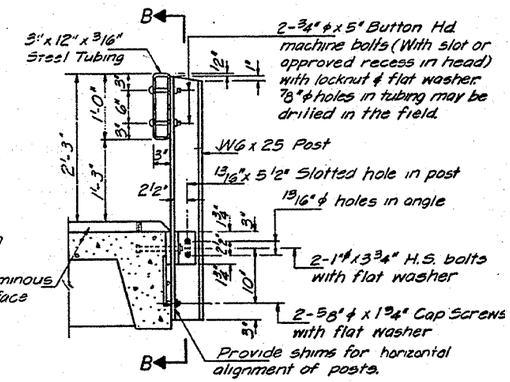
Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per lineal foot for Steel Railing, Type 3.

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

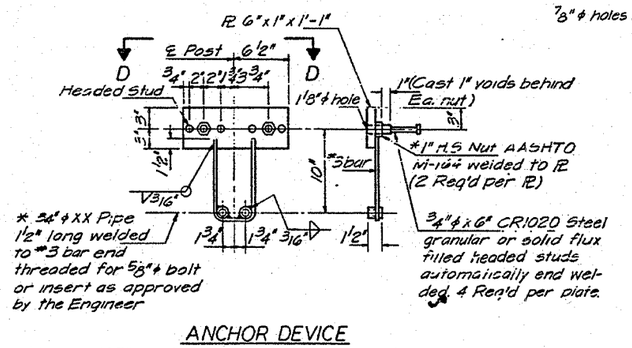
The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.08 Type B or place ⅛" fabric bearing pad between the post and concrete.

The ¾" ϕ high strength bolts used to connect the 6 x 4 x ¾ angles to the post shall be tightened in accordance with Article 507.04(g)(3) of the Standard Specifications. The 1" ϕ high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional ⅛ turn. The ⅝" ϕ cap screws in bottom of posts shall be tightened to a snug fit only.

Provide sufficient ¼" x 6" x 1'-4" galvanized steel shims to align rail between adjacent spans. Cost Incidental to Steel Railing.

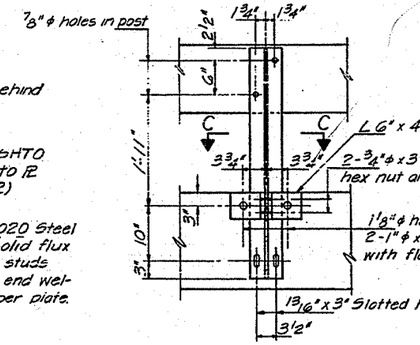


SECTION E-E

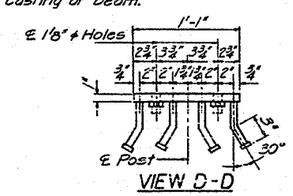


ANCHOR DEVICE

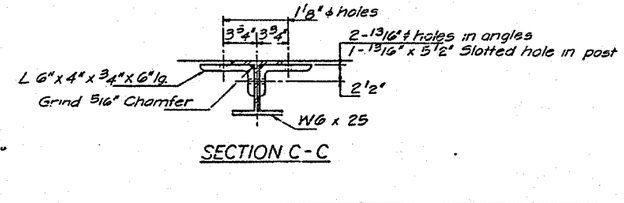
* Threaded areas shall be plugged or blocked off during casting of beam.



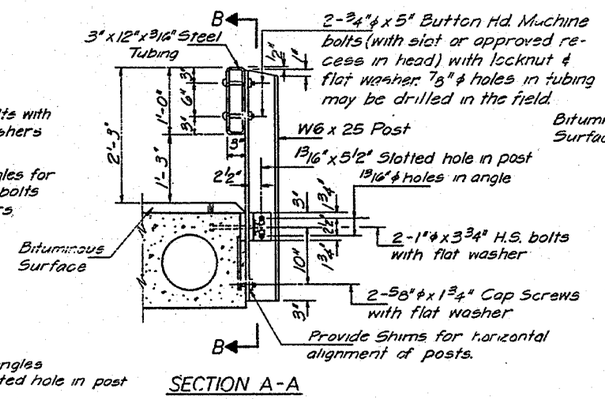
SECTION B-B



VIEW D-D



SECTION C-C



SECTION A-A

SHEET 7 OF 7

ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING RAILING DETAILS

S.N. 068-0027
FAP 777 (IL 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

Bench Mark: BM #16 Chiseled "□" S.W. abut. S.N. 068-0028. Elev. 561.26

Existing Structure: S.N. 068-0028 Built ±1930. Superstructure replaced 1968 as F.A. Rte. 140, Sec. 10BR at Sta. 498+37.00. Structure consists of single span PPC deck beam superstructure on pile supported closed abutments with PPC deck beam approach spans. 131'-8½" Bk.-Bk. appr. bents. 46'-6" O.-O. deck. Structure to be removed and replaced using stage construction.

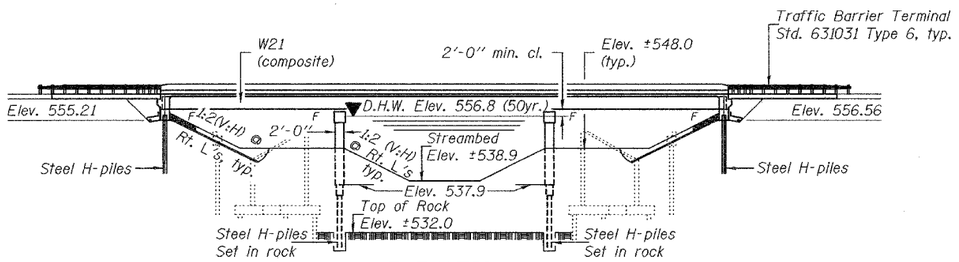
No salvage

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

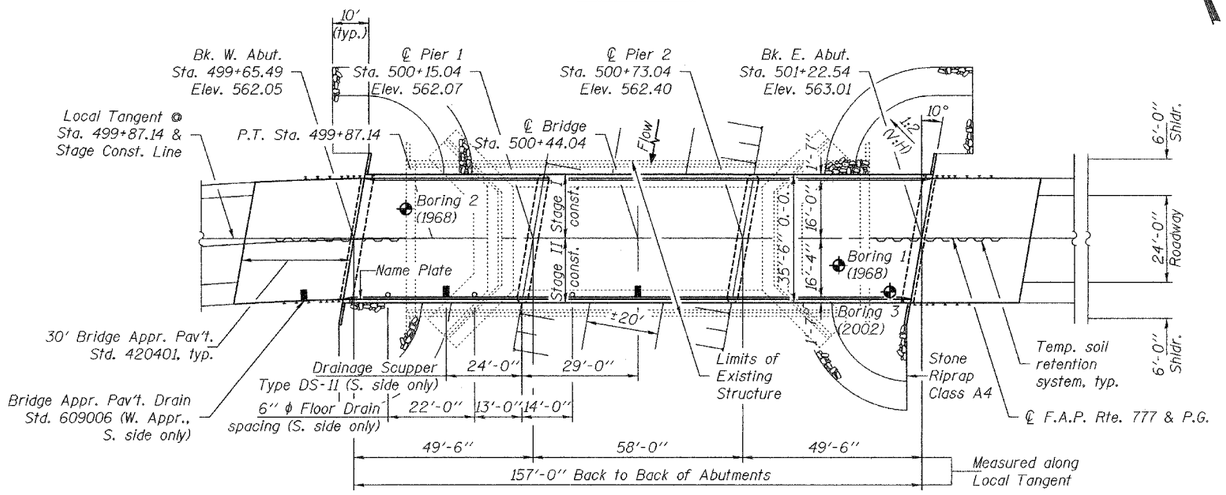
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 777	10B-1	MONTGOMERY	104	53
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
23 SHEETS

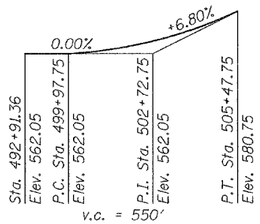
Contract #92667



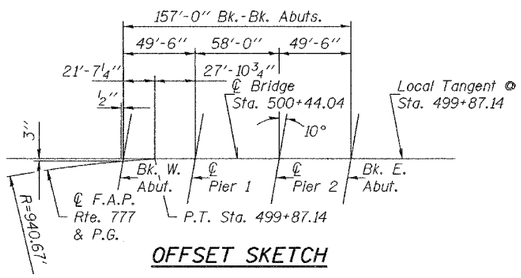
ELEVATION



PLAN



PROFILE GRADE
(along ℄ roadway)



OFFSET SKETCH

WATERWAY INFORMATION

Drainage Area = 77.1 sq. mi. Low Grade Elev. 560.40 @ Sta. 424+00

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	50	7710	1042	1420	556.8	1.6	0.7	558.4	557.5
Base	100	8770	1075	1462	557.1	1.9	0.9	559.0	558.0
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	11,300	1162	1573	557.9	2.5	1.2	560.4	559.1

DESIGNED	Daniel F. Zirnsak
CHECKED	Stephen M Ryan
DRAWN	R. Doty h.t.duong
CHECKED	DFZ / SMR

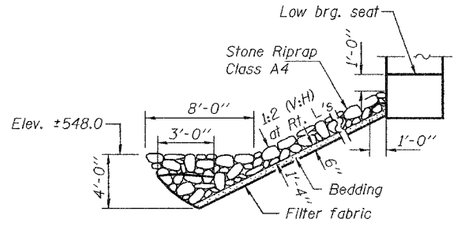
February 3, 2006
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS RALPH E. ANDERSON 081-004625 SPRINGFIELD LICENSED STRUCTURAL ENGINEER

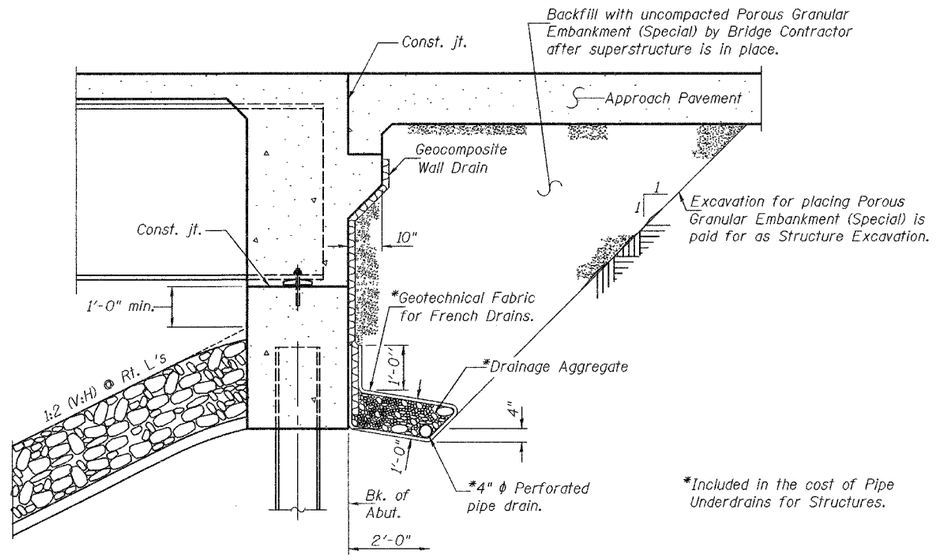
Expires 11-30-06

CURVE DATA

℄ F.A.P. Rte. 777
P.I. Sta. = 497+91.17
Δ = 24°-14'-26"
D = 6°-05'-27"
R = 940.67'
T = 202.01
L = 397.98'
E = 21.45'
S.E. = 6.0%
P.C. Sta. = 495+89.16
P.T. Sta. = 499+87.14
S.E. Removed Sta. 499+26.42 to Sta. 501+56.42



STONE RIPRAP ANCHOR DETAIL



*Included in the cost of Pipe Underdrains for Structures.

SECTION THRU INTEGRAL ABUTMENT

LOADING HS20-44

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

DESIGN SPECIFICATIONS

1996 AASHTO with 1997 thru 2002 Interims

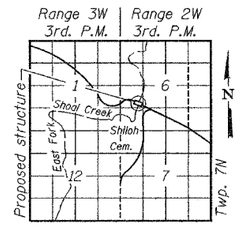
DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)
f_y = 50,000 psi (AASHTO M270 Grade 50W)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 7.3%g
Site Coefficient (S) = 1.0



LOCATION SKETCH

Notes: Cap end of 4" ϕ perforated pipe drain at stage construction line. Set pipes to drain away from stage construction line in each direction.

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Art. 601.05 of the Std. Spec's. and Highway Std. 601101.)

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 185 OVER EAST FORK OF SHOAL CREEK
F.A.P. ROUTE 777- SECTION 10B-1
MONTGOMERY COUNTY
STATION 500+44.04
STRUCTURE NO. 068-0505

Contract #92667

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATION 500+44.04
BUILT 200 BY
STATE OF ILLINOIS
F.A.P. RT. 777 SECTION 10B-1
LOADING HS20
STR. NO. 068-0505

NAME PLATE
See Std. 515001

GENERAL NOTES

Fasteners shall be high strength bolts (AASHTO M164, Type 3). Bolts $\frac{7}{8}$"ϕ, open holes $\frac{15}{16}$"ϕ unless otherwise noted.

Calculated weight of Structural Steel = 102,770 pounds (M270 Gr. 50W).

All structural steel shall be AASHTO M270 Grade 50W.

Field welding of construction accessories will not be permitted to the beams.

Anchor bolts shall be set before bolting diaphragms over supports.

The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams and all splice plate material except fill plates.

Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.

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

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two $\frac{1}{8}$" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.

The Contractor shall drive one (1) steel HP8x36 test pile in a permanent location at the West Abutment as directed by the Engineer before ordering the remainder of piles.

AASHTO M270 Grade 50W structural steel shall only be painted, at the ends of the beams, for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Those areas shall be primed in the shop with an inorganic zinc rich primer per AASHTO M300, Type I. No field painting shall be required. All structural steel shall be cleaned as specified in the special provision for "Surface Preparation and Painting Requirements for Weathering Steel".

All construction joints shall be bonded.

Excavation behind existing abutment walls shall be done before removing the existing superstructure. The Contractor shall saw cut the existing abutments at the stage removal line before Stage I removal.

INDEX OF SHEETS

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		89.7	89.7
Stone Riprap, Class A4	Sq. Yd.		681.2	681.2
Filter Fabric	Sq. Yd.		681.2	681.2
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		166.1	166.1
Driving Steel Piles	Foot		374	374
Floor Drains	Each	3		3
Concrete Structures	Cu. Yd.		148.7	148.7
Concrete Superstructure	Cu. Yd.	186.3		186.3
Bridge Deck Grooving	Sq. Yd.	529		529
Protective Coat	Sq. Yd.	695.6		695.6
Furnishing & Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	2676		2676
Reinforcement Bars, Epoxy Coated	Pound	41090	14280	55370
Furnishing Steel Piles HP8x36	Foot		374	374
Test Pile Steel HP8x36	Each		1	1
Setting Piles in Rock	Each		12	12
Furnishing Steel Piles HP12x53	Foot		408	408
Temporary Soil Retention System	Sq. Ft.		1026.0	1026.0
Name Plates	Each	1		1
Drainage Scuppers, DS-11	Each	2		2
Underwater Structure Excavation Protection - Location 1	Each		1	1
Underwater Structure Excavation Protection - Location 2	Each		1	1
Bar Splicers	Each	517	124	641
Pipe Underdrains for Structures, 4"	Foot		126.9	126.9
Geocomposite Wall Drain	Sq. Yd.		53.4	53.4

DESIGNED	Daniel F. Zerrusen
CHECKED	Stephen M. Ryan
DRAWN	R. Doty / h.t. duong
CHECKED	DFZ/SMR

Feb 3, 2006
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

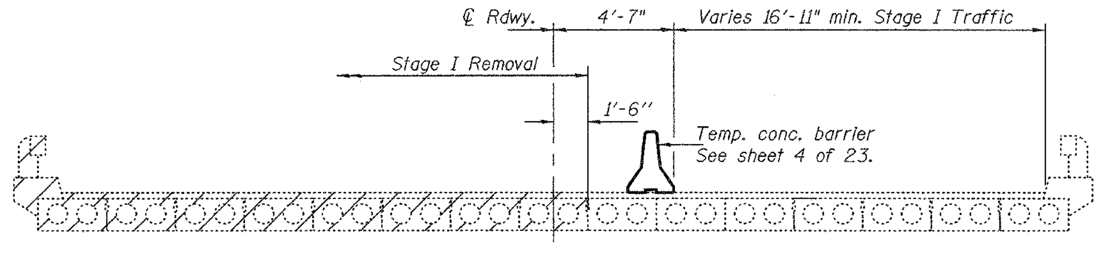
GENERAL DATA
F.A.P. ROUTE 777 SECTION 10B-1
MONTGOMERY COUNTY
STATION 500+44.04
STRUCTURE NO. 068-0505

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

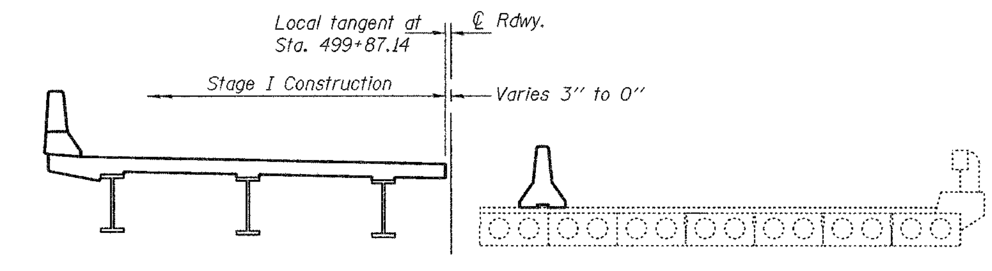
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 777	10B-1	MONTGOMERY	104	55
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 3
23 SHEETS

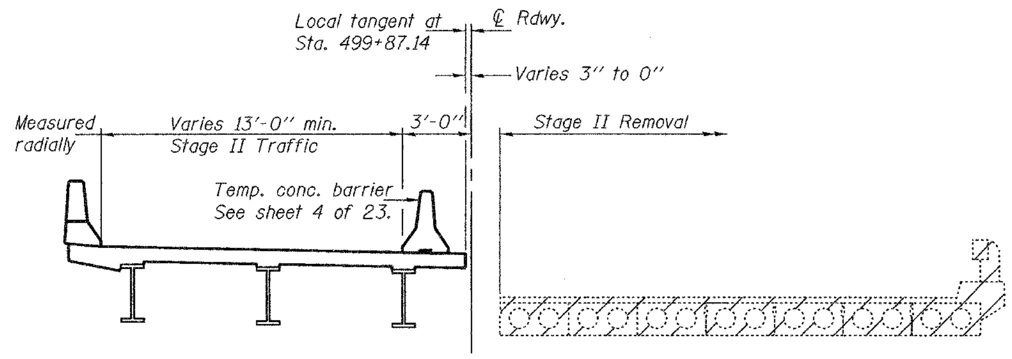
Contract #92667



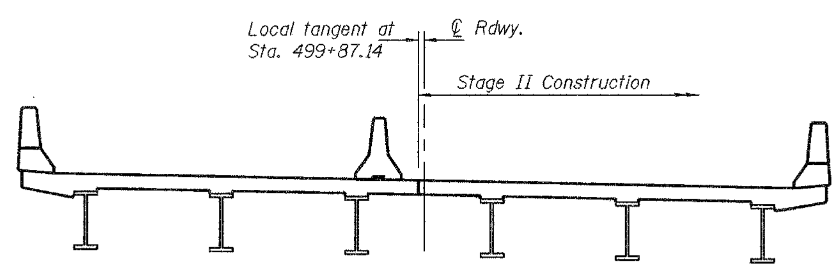
STAGE I REMOVAL



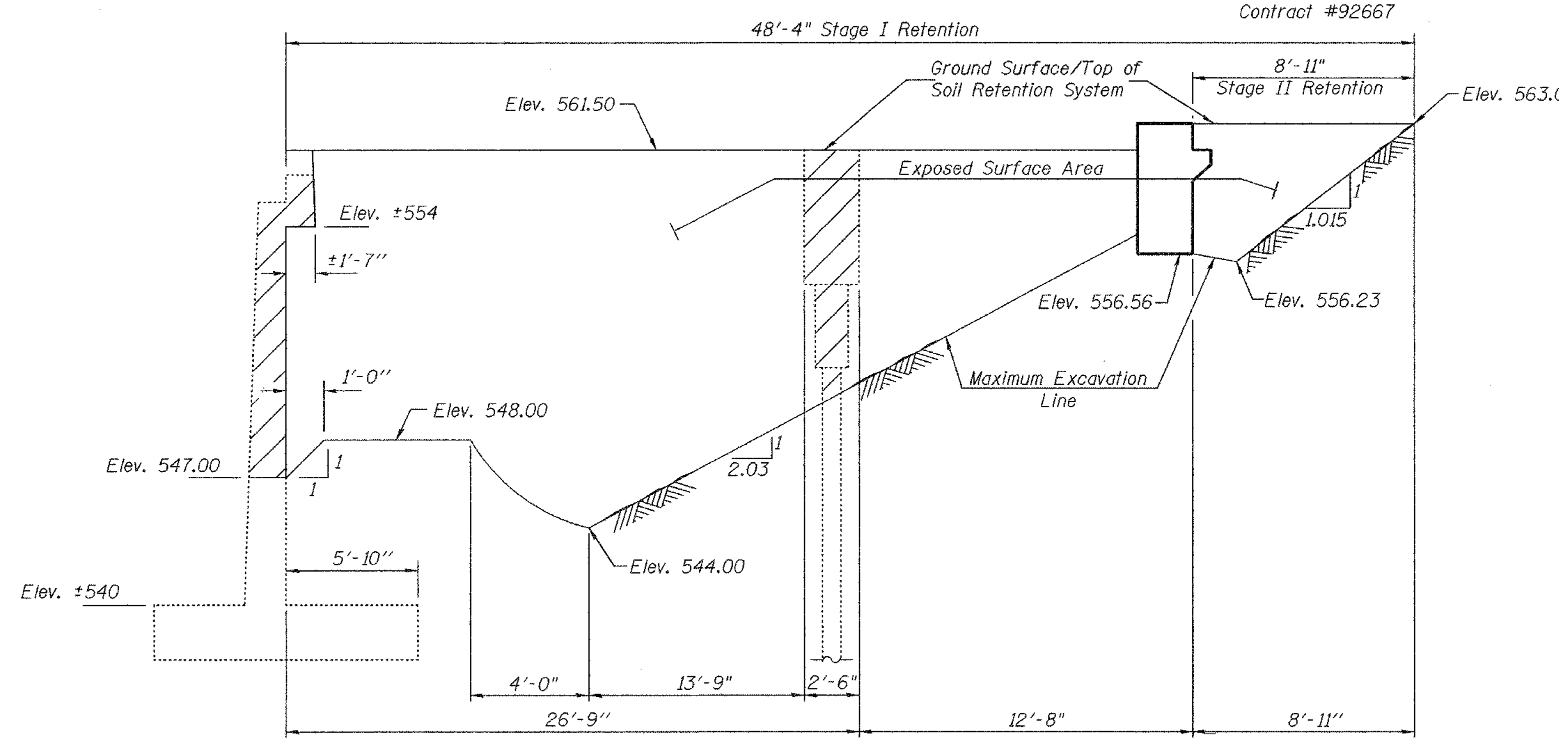
STAGE I CONSTRUCTION



STAGE II REMOVAL

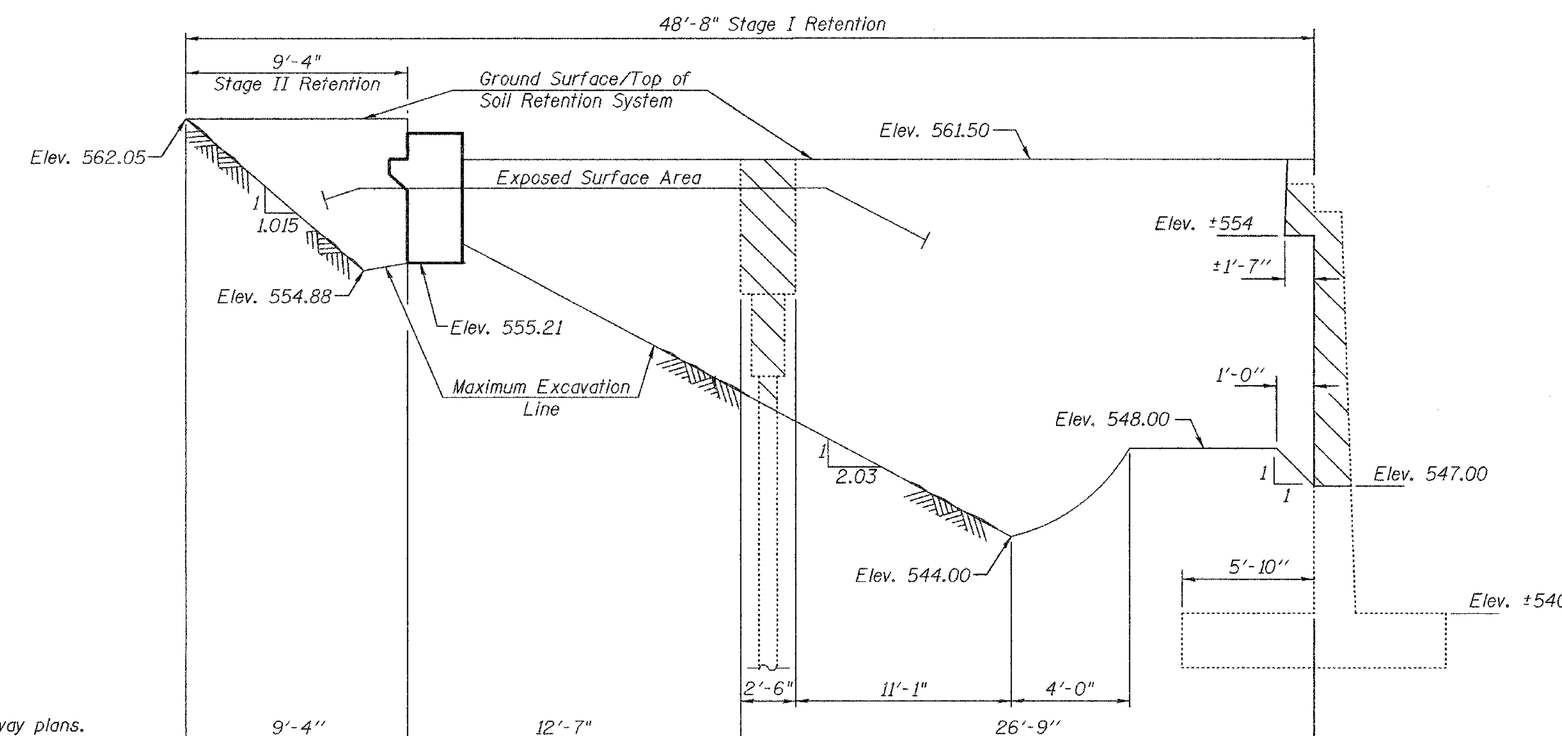


STAGE II CONSTRUCTION



TEMPORARY SOIL RETENTION SYSTEM

(East abutment - Looking north)



TEMPORARY SOIL RETENTION SYSTEM

(West abutment - Looking north)

Notes: Hatched areas indicate Removal of Existing Structures.
For quantity of Temporary Concrete Barrier, see roadway plans.
For details of temporary concrete barrier, see sheet 4 of 23.
All staging cross sections are looking East.
A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

DESIGNED	Daniel F. Zerrusen
CHECKED	Stephen M. Ryan
DRAWN	R. Doty h.t. duong
CHECKED	DFZ/SMR

Feb 3, 2006
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

STAGE CONSTRUCTION DETAILS
F.A.P. ROUTE 777 SECTION 10B-1
MONTGOMERY COUNTY
STATION 500+44.04
STRUCTURE NO. 068-0505

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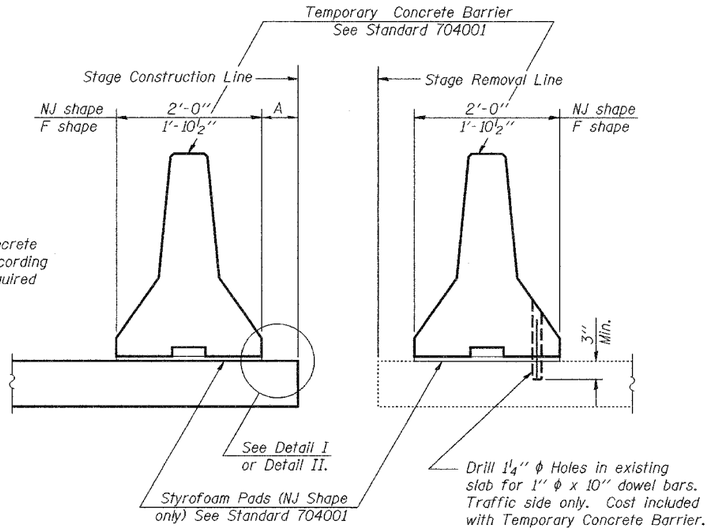
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 777	10B-1	MONTGOMERY	104	56
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 4
23 SHEETS

Contract #92667



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

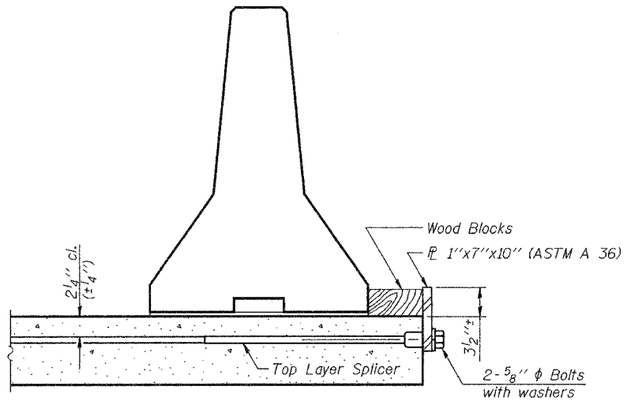
SECTIONS THRU SLAB

NOTES

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

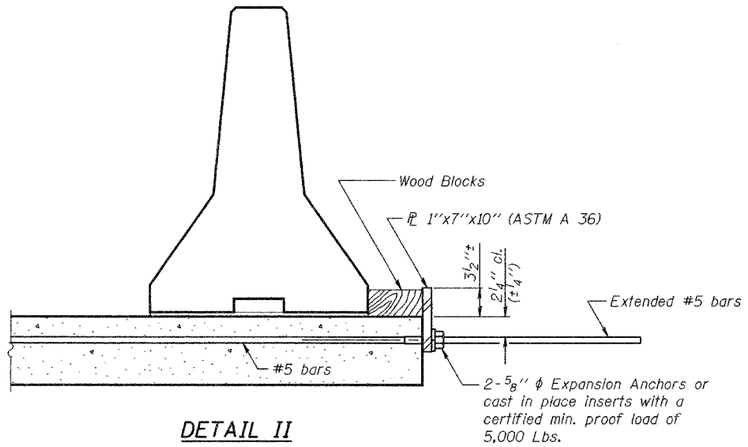
Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel ℙ to the concrete slab with 2-⅝" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier.



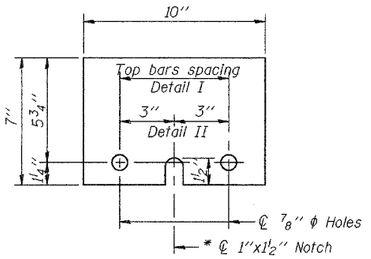
DETAIL I

The 1"x7"x10" Plate shall not be removed until Stage II Construction forms and reinforcement bars are in place.



DETAIL II

The 1"x7"x10" 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.



ℙ 1"x7"x10"

* Required only with Detail II

DESIGNED	Daniel F. Zerrusen
CHECKED	Stephen M. Ryan
DRAWN	R. Doty
CHECKED	DFZ/SMR

Feb 3, 2006
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

R-27 10-22-04

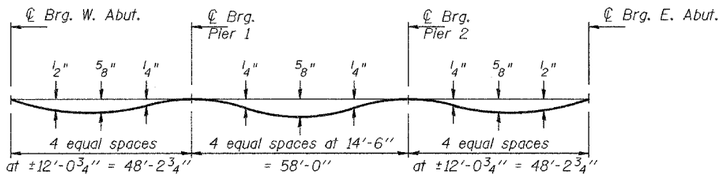
TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION F.A.P. RT. 777 SEC. 10B-1 MONTGOMERY COUNTY STATION 500+44.04 STRUCTURE NO. 068-0505

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 777	10B-1	MONTGOMERY	104	57
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 5
23 SHEETS

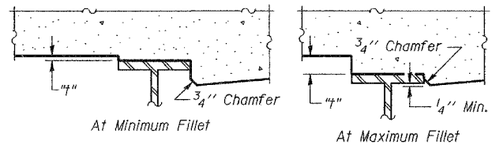
Contract #92667



DEAD LOAD DEFLECTION DIAGRAM

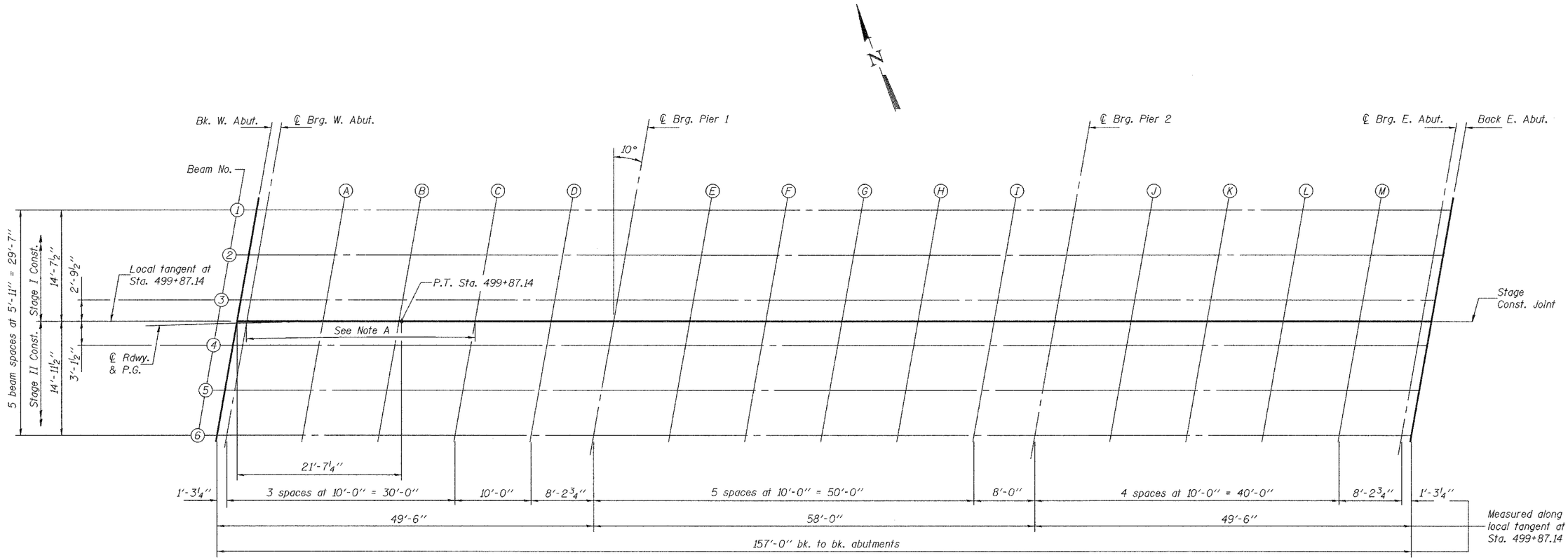
(Includes weight of concrete only)

Note: The above deflections are not to be used in the field if the Engineer is working from the grade elevations adjusted for dead load deflections as shown on sheet 6 of 23.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet 6 of 23, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



PLAN

Note A: Spacing (measured along ℄ Rdwy. and P.G.):
10'-0", 10'-0", 0'-4 1/2", 9'-8"

DESIGNED	Daniel F. Zerrusen
CHECKED	DPN/SMR
DRAWN	R. Doty, h.t. duong
CHECKED	DFZ/SMR

Feb 3, 2006
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

TOP OF SLAB ELEVATIONS
F.A.P. ROUTE 777 SECTION 10B-1
MONTGOMERY COUNTY
STATION 500+44.04
STRUCTURE NO. 068-0505

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 777	10B-1	MONTGOMERY	104	58
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 6
23 SHEETS

Contract #92667

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	49968.407	-14.814	562.732	562.732
℄ Brg. W. Abut.	49969.656	-14.790	562.724	562.724
A	49979.501	-14.657	562.670	562.705
B	49989.382	-14.625	562.621	562.668
C	49999.382	-14.625	562.572	562.610
D	50009.382	-14.625	562.532	562.549
℄ Brg. Pier 1	50017.619	-14.625	562.508	562.508
E	50027.619	-14.625	562.490	562.508
F	50037.619	-14.625	562.484	562.519
G	50047.619	-14.625	562.491	562.537
H	50057.619	-14.625	562.510	562.541
I	50067.619	-14.625	562.542	562.556
℄ Brg. Pier 2	50075.619	-14.625	562.576	562.576
J	50085.619	-14.625	562.630	562.650
K	50095.619	-14.625	562.696	562.737
L	50105.619	-14.625	562.774	562.820
M	50115.619	-14.625	562.865	562.894
℄ Brg. E. Abut.	50123.849	-14.625	562.949	562.949
Bk. of E. Abut.	50125.119	-14.625	562.963	562.963

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	49967.257	-8.920	562.465	562.465
℄ Brg. W. Abut.	49968.514	-8.894	562.461	562.461
A	49978.420	-8.749	562.425	562.460
B	49988.339	-8.708	562.395	562.442
C	49998.339	-8.708	562.367	562.404
D	50008.339	-8.708	562.345	562.361
℄ Brg. Pier 1	50016.576	-8.708	562.336	562.336
E	50026.576	-8.708	562.337	562.355
F	50036.576	-8.708	562.350	562.384
G	50046.576	-8.708	562.376	562.422
H	50056.576	-8.708	562.414	562.445
I	50066.576	-8.708	562.464	562.478
℄ Brg. Pier 2	50074.576	-8.708	562.513	562.513
J	50084.576	-8.708	562.586	562.606
K	50094.576	-8.708	562.671	562.712
L	50104.576	-8.708	562.768	562.814
M	50114.576	-8.708	562.877	562.906
℄ Brg. E. Abut.	50122.806	-8.708	562.977	562.977
Bk. of E. Abut.	50124.076	-8.708	562.993	562.993

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	49966.092	-3.028	562.192	562.192
℄ Brg. W. Abut.	49967.357	-3.000	562.190	562.190
A	49977.325	-2.843	562.173	562.208
B	49987.296	-2.792	562.162	562.209
C	49997.296	-2.792	562.152	562.190
D	50007.296	-2.792	562.149	562.165
℄ Brg. Pier 1	50015.532	-2.792	562.155	562.155
E	50025.532	-2.792	562.174	562.192
F	50035.532	-2.792	562.206	562.240
G	50045.532	-2.792	562.249	562.295
H	50055.532	-2.792	562.305	562.336
℄ Brg. Pier 2	50073.532	-2.792	562.437	562.437
J	50083.532	-2.792	562.528	562.548
K	50093.532	-2.792	562.631	562.672
L	50103.532	-2.792	562.747	562.793
M	50113.532	-2.792	562.874	562.903
℄ Brg. E. Abut.	50121.763	-2.792	562.989	562.989
Bk. of E. Abut.	50123.032	-2.792	563.007	563.007

℄ RDWY. & P.G. (& LOCAL TANGENT & STAGE CONST. JT. FROM STA. 499+87.14 TO STA. 501+22.54)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	49965.488	0.000	562.050	562.050
℄ Brg. W. Abut.	49966.763	0.000	562.050	562.050
A	49976.763	0.000	562.050	562.100
B	49986.760	0.000	562.050	562.100
P.T.	49987.140	0.000	562.050	562.101
C	49996.803	0.000	562.050	562.087
D	50006.803	0.000	562.055	562.072
℄ Brg. Pier 1	50015.040	0.000	562.068	562.068
E	50025.040	0.000	562.096	562.114
F	50035.040	0.000	562.136	562.170
G	50045.040	0.000	562.188	562.234
H	50055.040	0.000	562.253	562.284
I	50065.040	0.000	562.330	562.344
℄ Brg. Pier 2	50073.040	0.000	562.400	562.400
J	50083.040	0.000	562.500	562.520
K	50093.040	0.000	562.611	562.653
L	50103.040	0.000	562.735	562.781
M	50113.040	0.000	562.872	562.900
℄ Brg. E. Abut.	50121.271	0.000	562.993	562.993
Bk. of E. Abut.	50122.540	0.000	563.013	563.013

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	49964.913	2.863	561.914	561.914
℄ Brg. W. Abut.	49966.186	2.892	561.914	561.914
A	49976.216	3.062	561.916	561.951
B	49986.249	3.125	561.924	561.971
C	49996.252	3.125	561.934	561.972
D	50006.252	3.125	561.949	561.966
℄ Brg. Pier 1	50014.489	3.125	561.970	561.970
E	50024.489	3.125	562.007	562.025
F	50034.489	3.125	562.057	562.091
G	50044.489	3.125	562.119	562.165
H	50054.489	3.125	562.193	562.224
I	50064.489	3.125	562.277	562.291
℄ Brg. Pier 2	50072.489	3.125	562.346	562.346
J	50082.489	3.125	562.445	562.465
K	50092.489	3.125	562.556	562.597
L	50102.489	3.125	562.679	562.725
M	50112.489	3.125	562.815	562.843
℄ Brg. E. Abut.	50120.720	3.125	562.936	562.936
Bk. of E. Abut.	50121.989	3.125	562.955	562.955

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	49963.719	8.753	561.632	561.632
℄ Brg. W. Abut.	49965.000	8.784	561.634	561.634
A	49975.094	8.965	561.656	561.690
B	49985.190	9.040	561.682	561.729
C	49995.209	9.042	561.712	561.749
D	50005.209	9.042	561.745	561.762
℄ Brg. Pier 1	50013.446	9.042	561.781	561.781
E	50023.446	9.042	561.837	561.855
F	50033.446	9.042	561.904	561.938
G	50043.446	9.042	561.984	562.030
H	50053.446	9.042	562.077	562.108
I	50063.446	9.042	562.176	562.190
℄ Brg. Pier 2	50071.446	9.042	562.244	562.244
J	50081.446	9.042	562.342	562.362
K	50091.446	9.042	562.451	562.493
L	50101.446	9.042	562.573	562.619
M	50111.446	9.042	562.708	562.736
℄ Brg. E. Abut.	50119.676	9.042	562.828	562.828
Bk. of E. Abut.	50120.946	9.042	562.847	562.847

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	49962.510	14.641	561.345	561.345
℄ Brg. W. Abut.	49963.799	14.673	561.350	561.350
A	49973.957	14.868	561.390	561.425
B	49984.118	14.954	561.436	561.484
C	49994.166	14.958	561.486	561.523
D	50004.166	14.958	561.537	561.554
℄ Brg. Pier 1	50012.402	14.958	561.589	561.589
E	50022.402	14.958	561.662	561.680
F	50032.402	14.958	561.748	561.782
G	50042.402	14.958	561.846	561.892
H	50052.402	14.958	561.950	561.981
I	50062.402	14.958	562.059	562.074
℄ Brg. Pier 2	50070.402	14.958	562.127	562.127
J	50080.402	14.958	562.223	562.243
K	50090.402	14.958	562.332	562.373
L	50100.402	14.958	562.452	562.498
M	50110.402	14.958	562.585	562.614
℄ Brg. E. Abut.	50118.633	14.958	562.704	562.704
Bk. of E. Abut.	50119.902	14.958	562.723	562.723

LOCAL TANGENT & STAGE CONST. JT. FROM STA. 499+65.54 TO STA. 499+87.14

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	49965.538	-0.248	562.062	562.062
℄ Brg. W. Abut.	49966.806	-0.220	562.060	562.060
A	49976.804	-0.057	562.052	562.087
B	49986.803	0.000	562.050	562.097
P.T.	49987.140	0.000	562.050	562.101

DESIGNED	Daniel F. Zerrusen
CHECKED	DPN/SMR
DRAWN	R. Doty h.t. duong
CHECKED	DFZ/SMR

Feb 3, 2006
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

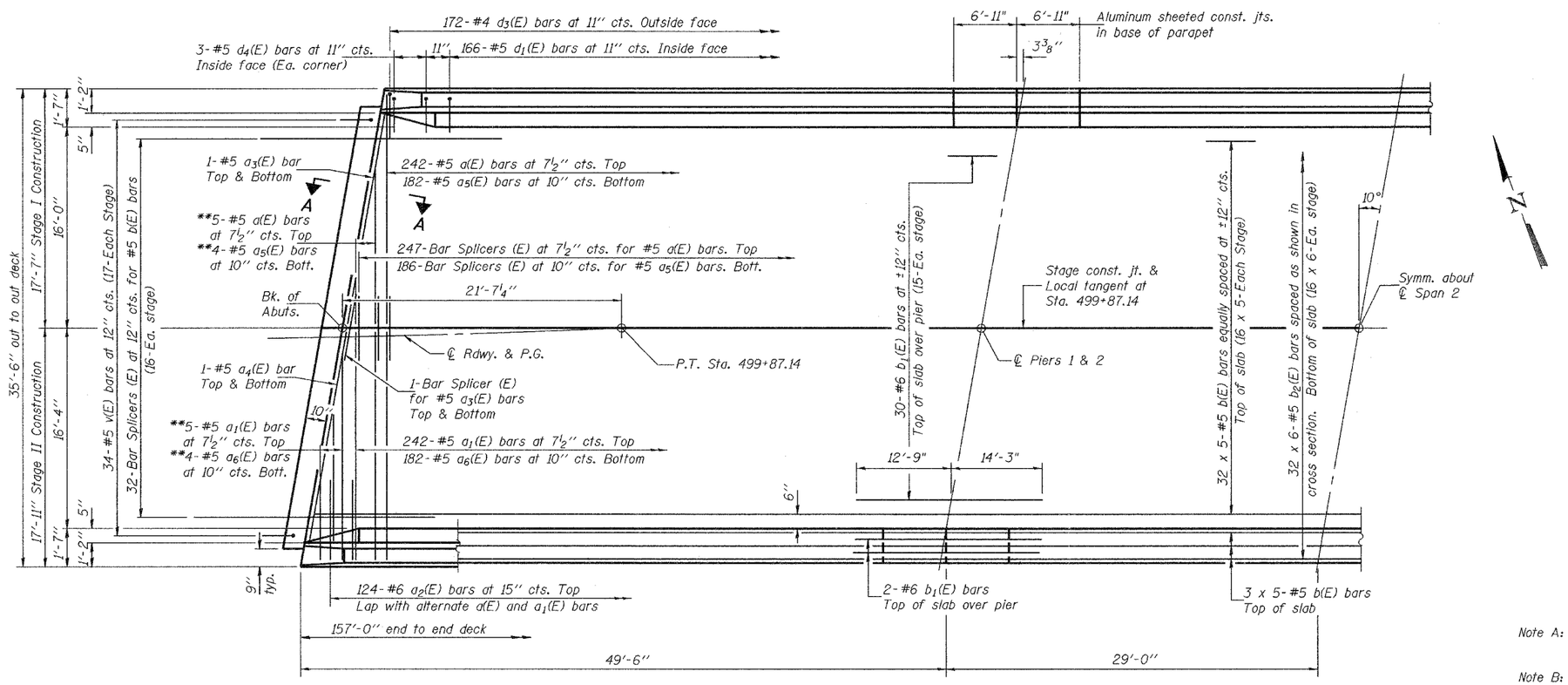
TOP OF SLAB ELEVATIONS
F.A.P. ROUTE 777 SECTION 10B-1
MONTGOMERY COUNTY
STATION 500+44.04
STRUCTURE NO. 068-0505

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 777	10B-1	MONTGOMERY	164	59
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 7
23 SHEETS

Contract #92667



Notes: See sheet 8 of 23 for superstructure details, parapet reinforcement and Bill of Material.
For Section A-A and diaphragm details see sheets 9 and 10 of 23.
Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 3 x 5-#5 etc. indicates 3 lines of bars with 5 lengths per line.
See sheet 20 of 23 for bar splicer details.
For location of floor drains and drainage scuppers see sheet 1 of 23.
Cut longitudinal reinforcement, where necessary, to clear drainage scuppers.

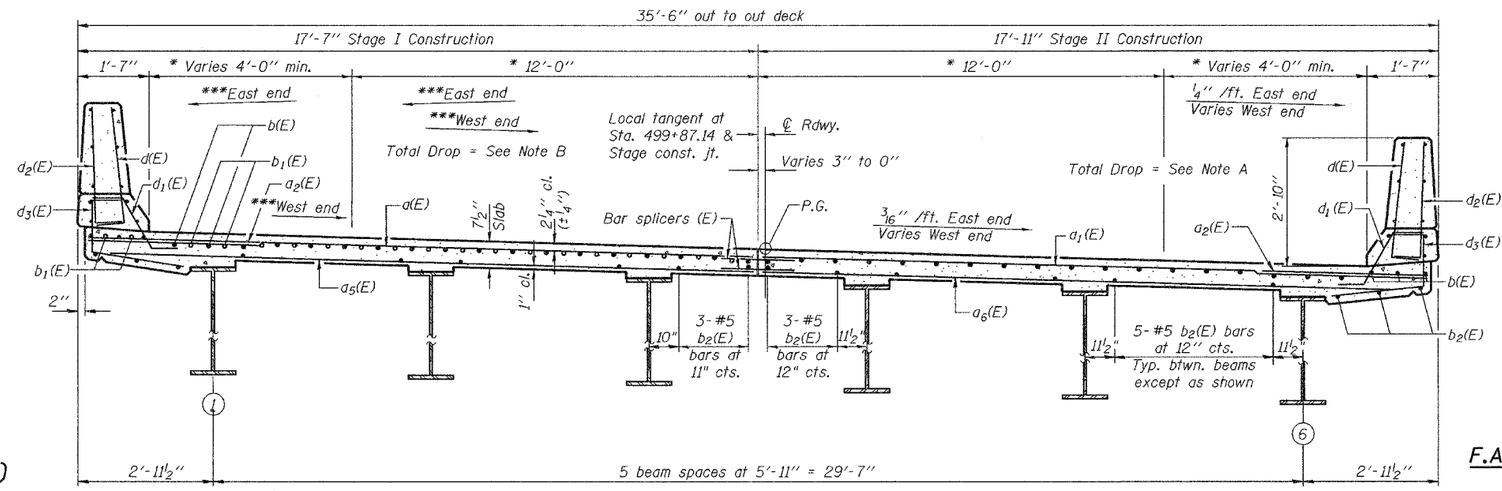
Note A: Total drop from ℄ roadway and PG to gutter line = 9 1/8" (West end); 3 3/8" (East end)

Note B: Total drop from gutter line to ℄ roadway and PG = 8 7/8" (West end)
Total drop from ℄ roadway and PG to gutter line = 1 1/8" (East end)

HALF PLAN

MIN. BAR LAP
#5 bars = 1'-8"

* Radial dimensions.
** Order a(E), a_1(E), a_5(E), and a_6(E) bars full length. Cut to fit skew and use the remainder of bars in opposite end.
*** Slope varies.



NEAR PIER — CROSS SECTION (Looking East) — NEAR MIDSPAN

DESIGNED	Daniel F. Zerrusen
CHECKED	Stephen M. Ryan
DRAWN	R. Doty h.t. duong
CHECKED	DFZ/SMR

Feb 3, 2006
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

SUPERSTRUCTURE
F.A.P. ROUTE 777 SECTION 10B-1
MONTGOMERY COUNTY
STATION 500+44.04
STRUCTURE NO. 068-0505

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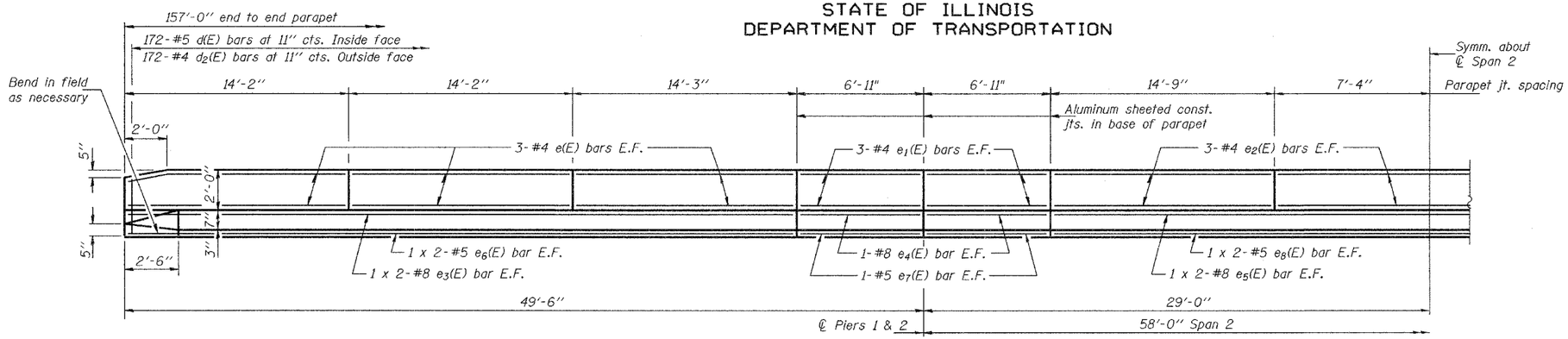
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 777	10B-1	MONTGOMERY	104	60
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

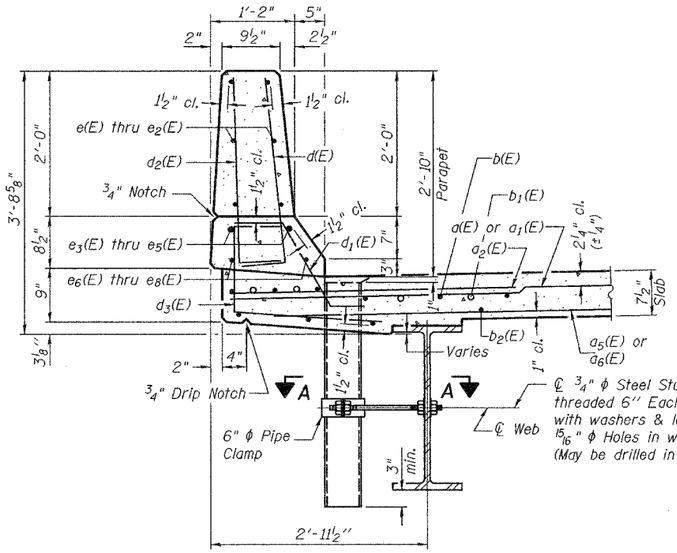
SHEET NO. 8
23 SHEETS

Contract #92667

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

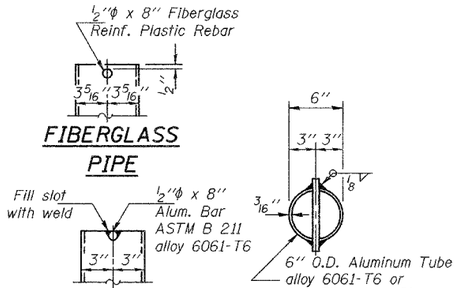


INSIDE ELEVATION OF PARAPET



SECTION THRU PARAPET

Omit drains on N. parapet

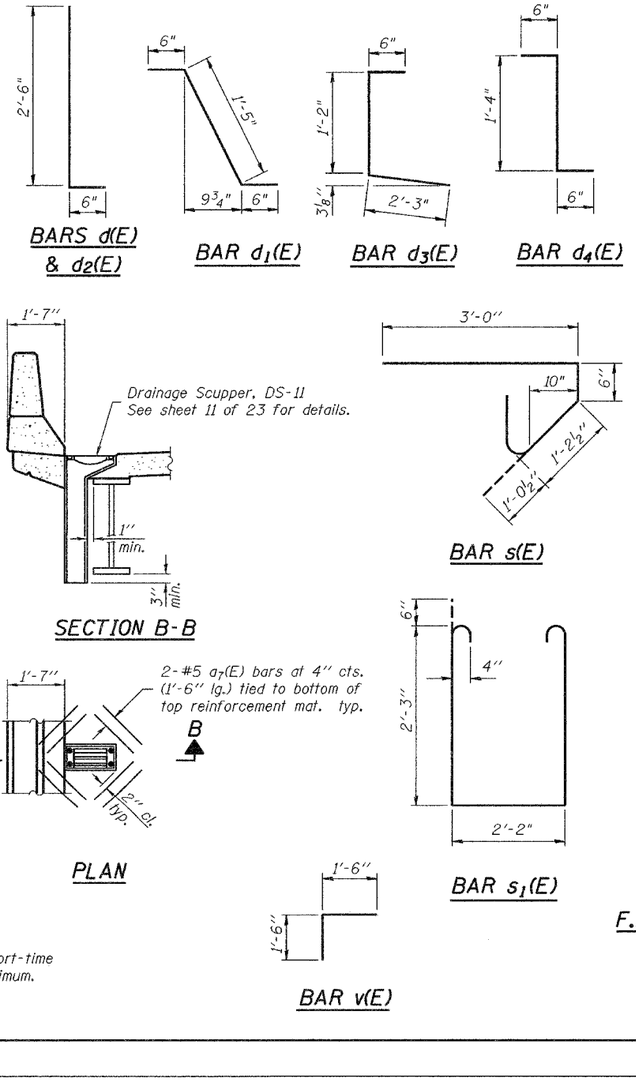


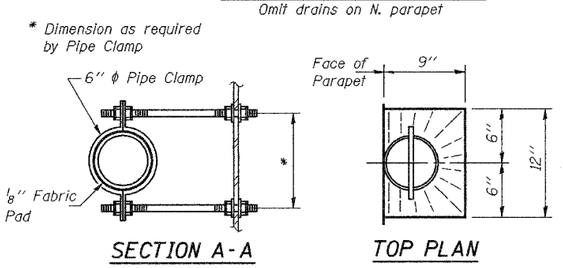
FIBERGLASS PIPE

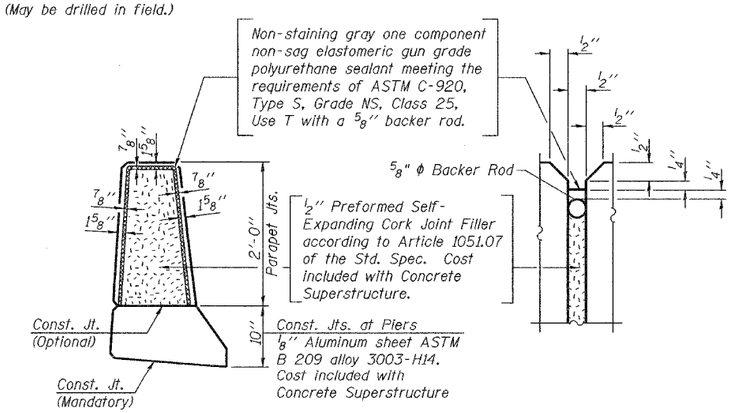
ALUMINUM TUBE

TOP PLAN

Showing Aluminum Tube







PARAPET JOINT DETAILS

MIN. BAR LAPS

#5 bar = 1'-8"
#8 bar = 3'-5"

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	247	#5	17'-2"	——
a1(E)	247	#5	17'-6"	——
a2(E)	248	#6	4'-6"	——
a3(E)	4	#5	16'-9"	——
a4(E)	4	#5	17'-1"	——
a5(E)	186	#5	16'-5"	——
a6(E)	186	#5	16'-9"	——
a7(E)	16	#5	1'-6"	——
b(E)	190	#5	33'-0"	——
b1(E)	68	#6	27'-0"	——
b2(E)	192	#5	27'-9"	——
d(E)	344	#5	3'-0"	⌐
d1(E)	332	#5	2'-5"	⌐
d2(E)	344	#4	3'-0"	⌐
d3(E)	344	#4	3'-11"	⌐
d4(E)	12	#5	2'-4"	⌐
e(E)	72	#4	13'-11"	——
e1(E)	48	#4	6'-8"	——
e2(E)	36	#4	14'-6"	——
e3(E)	16	#8	22'-10"	——
e4(E)	16	#8	6'-7"	——
e5(E)	8	#8	23'-8"	——
e6(E)	16	#5	22'-0"	——
e7(E)	16	#5	6'-7"	——
e8(E)	8	#5	22'-10"	——
m(E)	4	#6	16'-10"	——
m1(E)	4	#6	17'-2"	——
m2(E)	6	#6	17'-7"	——
m3(E)	6	#6	17'-11"	——
m4(E)	24	#6	7'-10"	——
m5(E)	10	#6	5'-9"	——
m6(E)	4	#6	2'-9"	——
s(E)	64	#5	5'-9"	⌐
s1(E)	64	#4	7'-8"	⌐
v(E)	68	#5	3'-0"	⌐
Reinforcement Bars, Epoxy Coated		Pound	41090	
Concrete Superstructure		Cu. Yd.	186.3	

Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 1 x 2-#5 etc. indicates 1 line of bars with 2 lengths per line.

DESIGNED	Daniel F. Zerrusen
CHECKED	Stephen M. Ryan
DRAWN	R. Doty, h.t. duong
CHECKED	DFZ/SMR

Feb 3, 2006
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

Notes:
Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
Floor drains need not be painted.

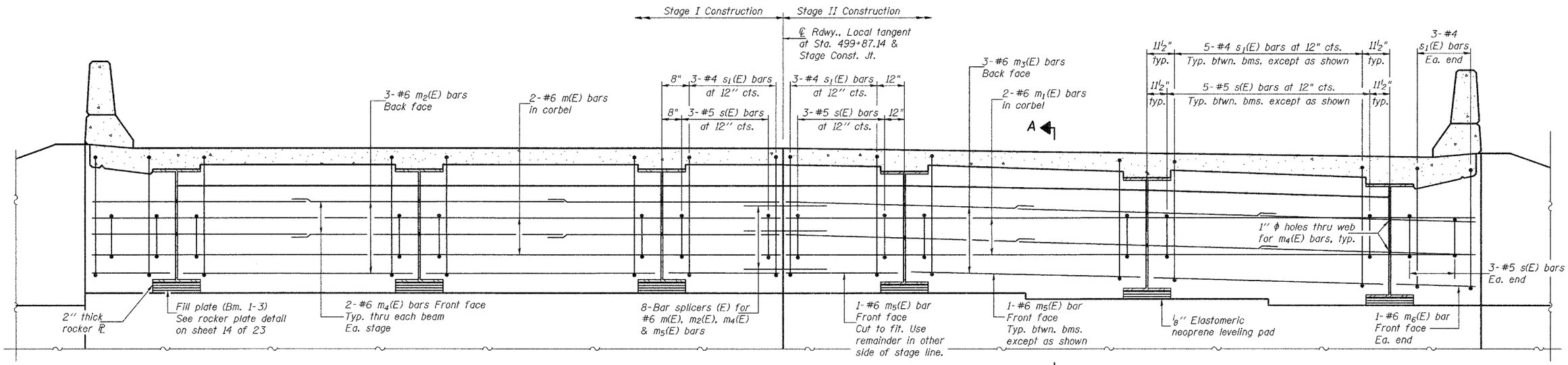
SUPERSTRUCTURE DETAILS
F.A.P. ROUTE 777 SECTION 10B-1
MONTGOMERY COUNTY
STATION 500+44.04
STRUCTURE NO. 068-0505

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 777	10B-1	MONTGOMERY	104	61
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 9
23 SHEETS

Contract #92667

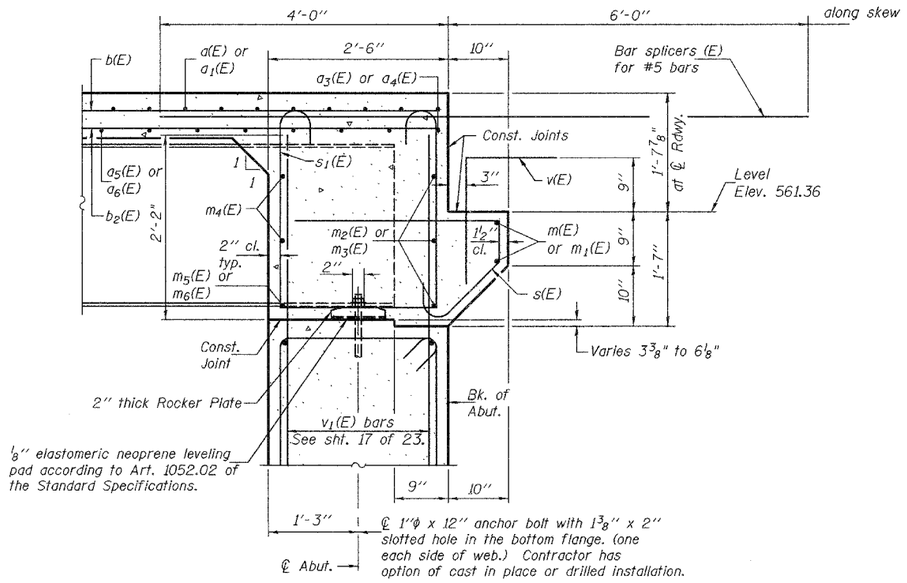


DIAPHRAGM ELEVATION AT E. ABUTMENT

Looking East

MIN. BAR. LAP

#6 bar = 2'-9"



SECTION A-A

Dimensions are at Rt. L's except as shown
* Cost included with Concrete Superstructure.

Notes: Reinforcement bars in diaphragm are billed with superstructure on sheet 8 of 23.
Concrete in diaphragm is included with Concrete Superstructure on sheet 8 of 23.
For details of bars s(E) & s1(E) see sheet 8 of 23.
The s(E) and s1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
For anchor bolt details see sheet 15 of 23.
For bar splicer details, see sheet 20 of 23.

DESIGNED	Daniel F. Zerrusen
CHECKED	Stephen M. Ryan
DRAWN	R. Doty h.t. duong
CHECKED	DFZ/SMR

Feb 3, 2006
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

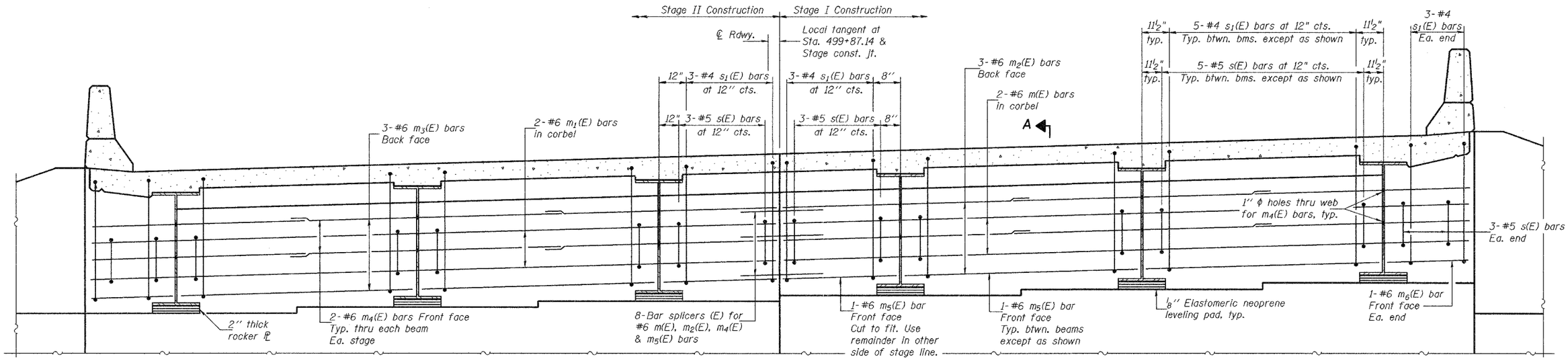
EAST DIAPHRAGM DETAILS
F.A.P. ROUTE 777 SECTION 10B-1
MONTGOMERY COUNTY
STATION 500+44.04
STRUCTURE NO. 068-0505

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 777	10B-1	MONTGOMERY	104	62
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 10
23 SHEETS

Contract #92667

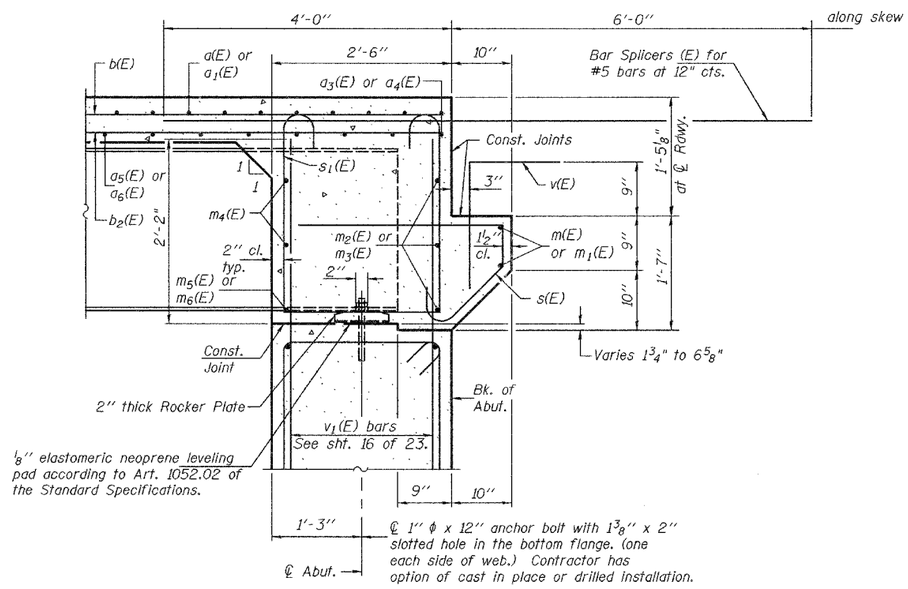


DIAPHRAGM ELEVATION AT W. ABUTMENT

Looking West

MIN. BAR. LAP

#6 bar = 2'-9"



SECTION A-A

Dimensions are at Rt. L's except as shown
* Cost included with Concrete Superstructure.

Notes: Reinforcement bars in diaphragm are billed with superstructure on sheet 8 of 23.
Concrete in diaphragm is included with Concrete Superstructure on sheet 8 of 23.
For details of bars s(E) & s_1(E) see sheet 8 of 23.
The s(E) and s_1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
For anchor bolt details see sheet 15 of 23.
For bar splicer details, see sheet 20 of 23.

DESIGNED	Daniel F. Zerrusen
CHECKED	Stephen M. Ryan
DRAWN	R. Doty h.t. duong
CHECKED	DFZ/SMR

Feb 3, 2006
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

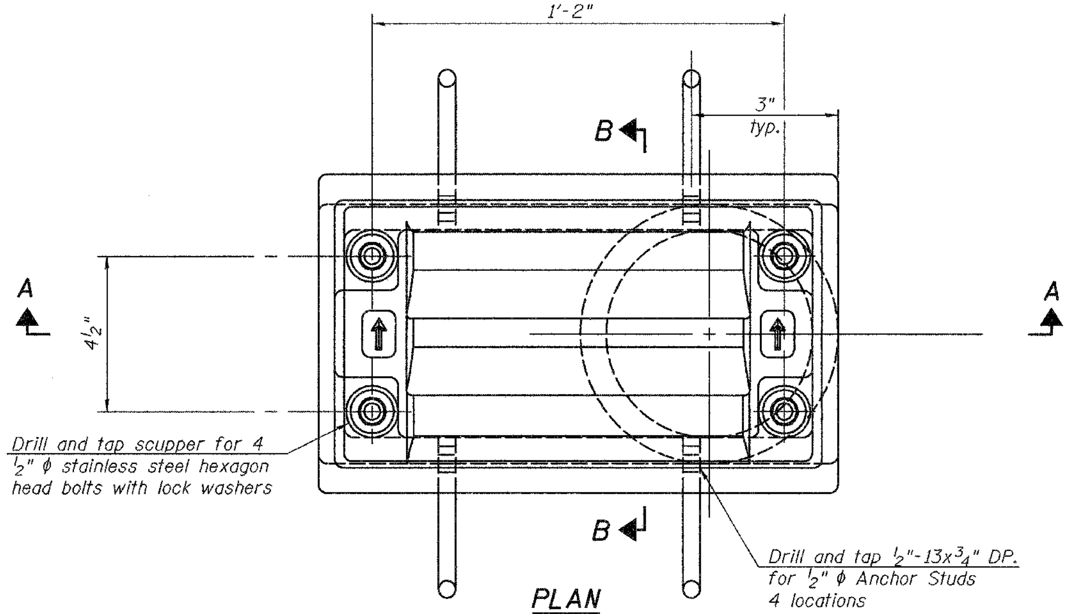
WEST DIAPHRAGM DETAILS
F.A.P. ROUTE 777 SECTION 10B-1
MONTGOMERY COUNTY
STATION 500+44.04
STRUCTURE NO. 068-0505

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 777	10B-1	MONTGOMERY	104	63
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT-		

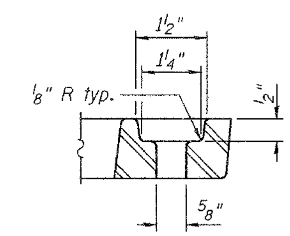
SHEET NO. 11
23 SHEETS

Contract #92667

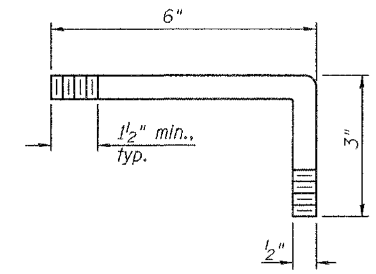
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



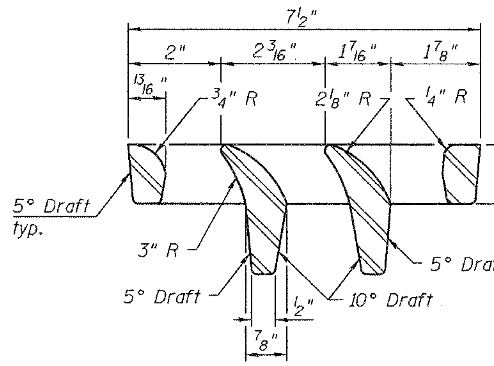
PLAN



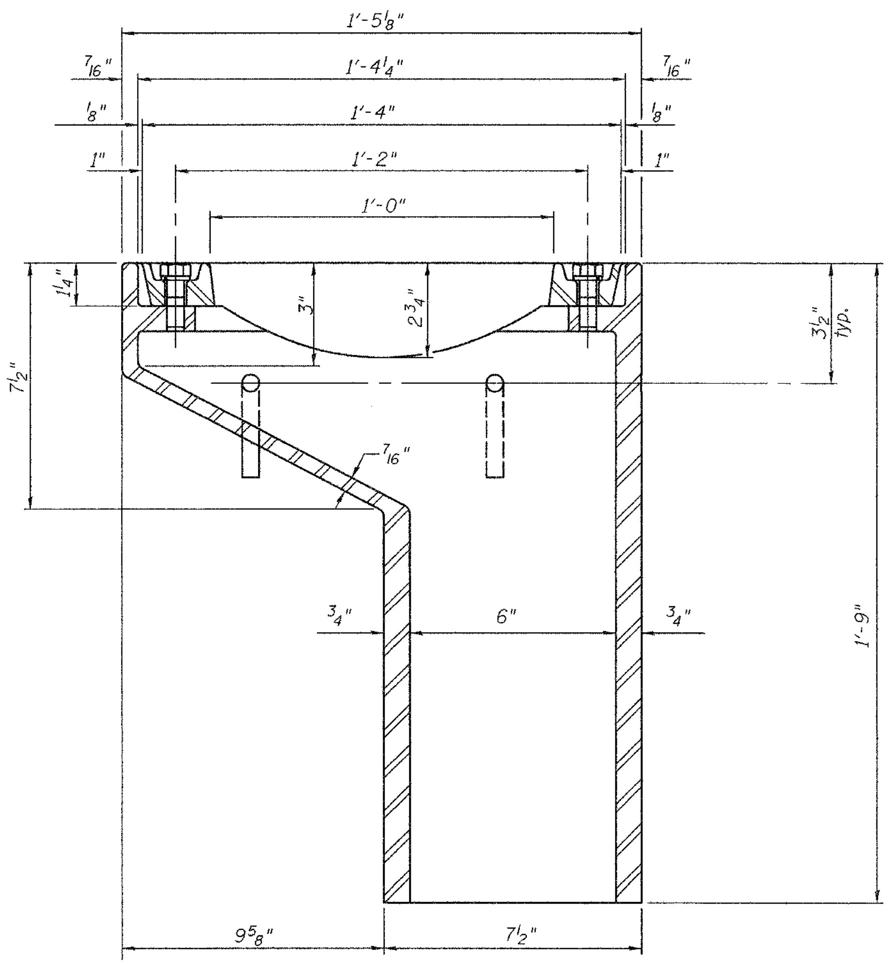
BOLT HOLE DETAIL



ANCHOR STUD DETAIL

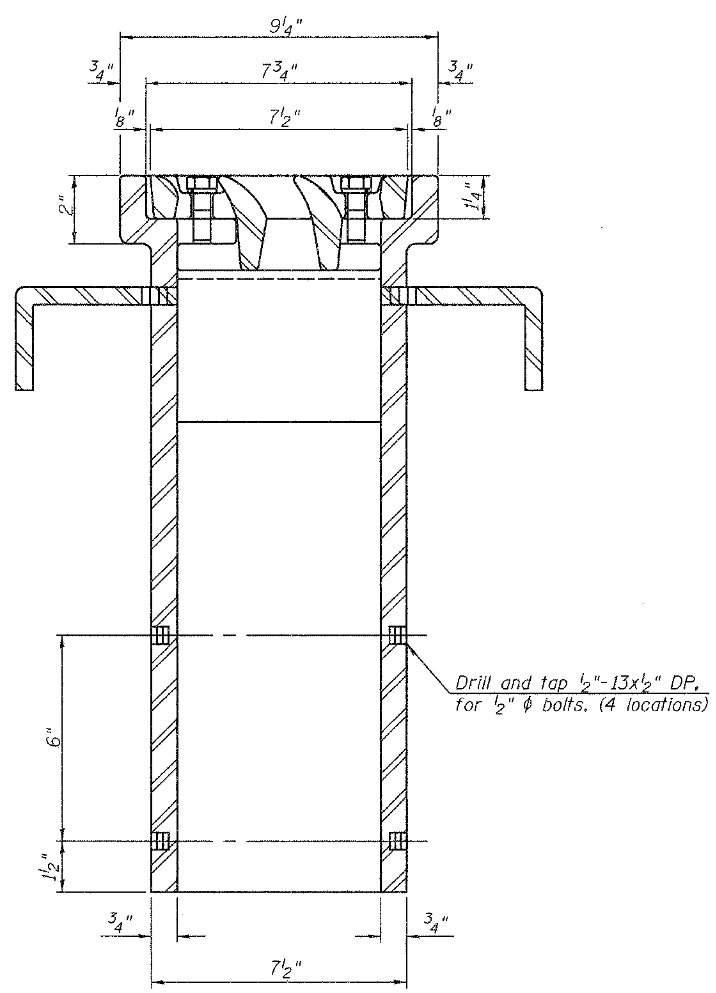


VANE GRATE DETAIL



SECTION A-A

See sheet 8 of 23 for scupper location relative to parapet.



SECTION B-B

Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.

Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.

The grate, frame and downspout shall be galvanized according to AASHTO M 111 and ASTM A 385. Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.

As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.

Structural steel weldments of equal sections and of the same configuration may be substituted for cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval.

The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-11.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-11	Each	2

DESIGNED	Daniel F. Zerrusen
CHECKED	Stephen M. Ryan
DRAWN	R. Doty
CHECKED	DFZ/SMR

Feb 3, 2006
EXAMINED Thomas J. Domagalski — ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson — ENGINEER OF BRIDGES AND STRUCTURES

8-11-02

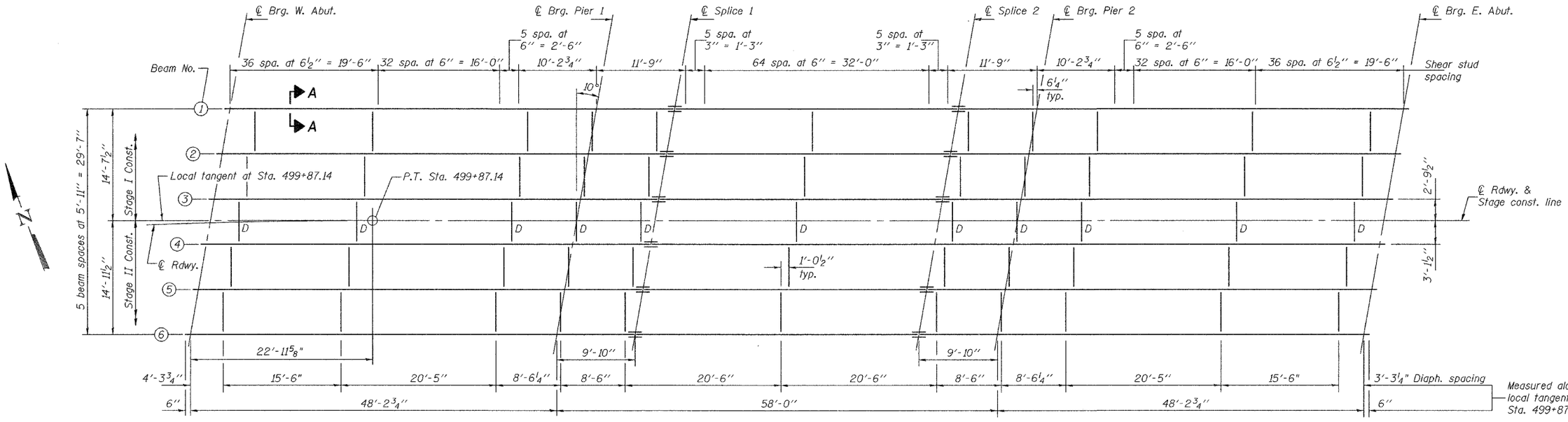
DRAINAGE SCUPPER, DS-11
F.A.P. ROUTE 777 SECTION 10B-1
MONTGOMERY COUNTY
STATION 500+44.04
STRUCTURE NO. 068-0505

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 777	10B-1	MONTGOMERY	104	64
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

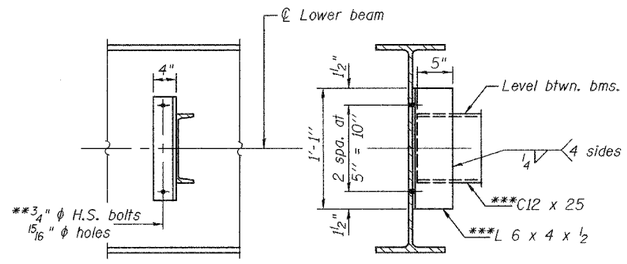
SHEET NO. 12
23 SHEETS

Contract #92667



FRAMING PLAN

All beams are W21x93 AASHTO M 270 Grade 50W "NTR"

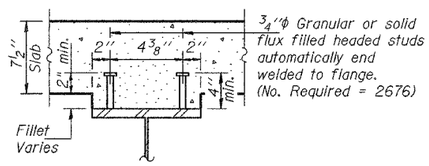


DIAPHRAGM D

55 Required

** Use 13/16" x 1½" vertical slotted holes in connection angles 6 x 4 x ½ at North side of Beam 4 only. Provide 5/16" plate washers for slotted holes. Bolts for the slotted holes shall be finger-tightened prior to the deck pour for Stage II Construction and then be fully tightened after completion of the deck pour for Stage II Construction.

*** M270 Grade 50W.



SECTION A-A

* TOP OF BEAM ELEVATIONS

Location	℄ Brg. W. Abut.	℄ Brg. Pier 1	℄ Splice 1	℄ Splice 2	℄ Brg. Pier 2	℄ Brg. E. Abut.
Beam 1	562.06	561.81	561.76	561.81	561.89	562.28
Beam 2	561.79	561.64	561.61	561.73	561.82	562.31
Beam 3	561.52	561.46	561.45	561.63	561.75	562.32
Beam 4	561.25	561.27	561.28	561.53	561.66	562.27
Beam 5	560.97	561.08	561.11	561.43	561.56	562.16
Beam 6	560.68	560.89	560.93	561.31	561.44	562.04

* For fabrication only.

Notes: "NTR" denotes members to which Notch Toughness Requirements are applicable.
Two hardened washers shall be required over all oversized holes in diaphragms.
For remainder of structural steel details see sheet 13 of 23.

DESIGNED	Daniel F. Zerrusen
CHECKED	Stephen M. Ryan
DRAWN	R. Doty h.t.duong
CHECKED	DFZ/SMR

Feb 3, 2006
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

STRUCTURAL STEEL
F.A.P. ROUTE 777 SECTION 10B-1
MONTGOMERY COUNTY
STATION 500+44.04
STRUCTURE NO. 068-0505

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 777	10B-1	MONTGOMERY	104	65
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 13
23 SHEETS

Contract #92667

INTERIOR BEAM MOMENT TABLE				
		0.4 Sp. 1 & 0.6 Sp. 3	Piers 1 & 2	0.5 Sp. 2
Is	(in4)	2070	2070	2070
Ic (n)	(in4)	6579	———	6579
Ic (3n)	(in4)	4759	———	4759
Ss	(in3)	192	192	192
Sc (n)	(in3)	312	———	312
Sc (3n)	(in3)	278	———	278
wℓ	(k/')	0.671	1.117	0.671
Mℓ	('k)	111	284	92
sℓ	(k/')	0.446	———	0.446
Msℓ	('k)	87	———	94
Mℓ	('k)	277	140	301
M (Imp)	('k)	80	39	82
$\frac{5}{3}$[Mℓ+M(Imp)]	('k)	596	299	639
Ma	('k)	1032	758	1073
Mu	('k)	1255	921	1300
fsℓ non-comp	(k.s.i.)	6.9	17.7	5.7
fsℓ (comp)	(k.s.i.)	3.8	———	4.1
fs $\frac{5}{3}$[Mℓ+M(Imp)]	(k.s.i.)	22.9	18.7	24.6
fs (Overload)	(k.s.i.)	33.6	36.4	34.4
fs (Total)	(k.s.i.)	———	———	———
VR	(k)	42.2	———	35.6

INTERIOR BEAM REACTION TABLE			
		Abuts.	Piers
Rℓ	(k)	21.0	65.2
Rℓ	(k)	30.3	36.1
Imp.	(k)	8.8	10.1
R (Total)	(k)	60.1	111.4

Is and Ss are the moment of inertia and section modulus of the steel section used in computing fs (Total & Overload).

Ic(n) and Sc(n) are the moment of inertia and section modulus of the composite section used in computing stresses due to Live Load.

Ic(3n) and Sc(3n) are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads. (see AASHTO 10.38)

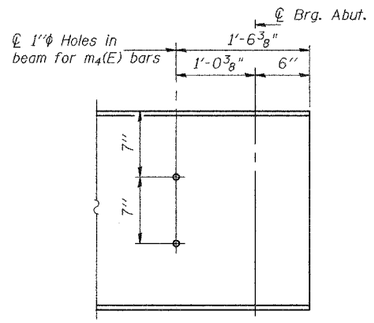
VR is the maximum Live Load + Impact shear range within the composite portion of the span.

Ma (Applied Moment)=1.3[Mℓ + Msℓ + $\frac{5}{3}$(Mℓ + M Imp)].

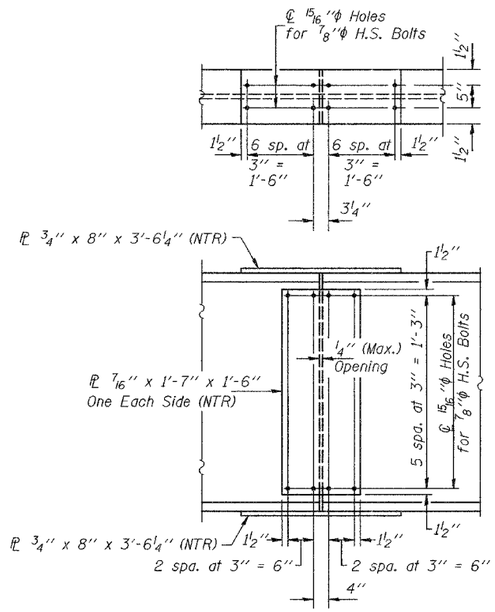
The Plastic Moment capacity (Mu) is computed according to AASHTO 10.48.1 and 10.50.1.1.

fs (Overload) is the sum of the stresses due to Mℓ + Msℓ + $\frac{5}{3}$(Mℓ + M Imp).

fs (Total) is the sum of the stresses due to 1.3[Mℓ + Msℓ + $\frac{5}{3}$(Mℓ + M Imp)].



TYP. END OF BEAM ELEVATION



SPLICE DETAIL

12 Required

Notes: All splice plates shall be AASHTO M 270 Grade 50W. "NTR" denotes members to which Notch Toughness Requirements are applicable.

DESIGNED	Daniel F. Zerrusen
CHECKED	Stephen M. Ryan
DRAWN	R. Doty h.t. duong
CHECKED	DFZ/SMR

Feb 3, 2006

EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN

PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

STRUCTURAL STEEL DETAILS
F.A.P. ROUTE 777 SECTION 10B-1
MONTGOMERY COUNTY
STATION 500+44.04
STRUCTURE NO. 068-0505

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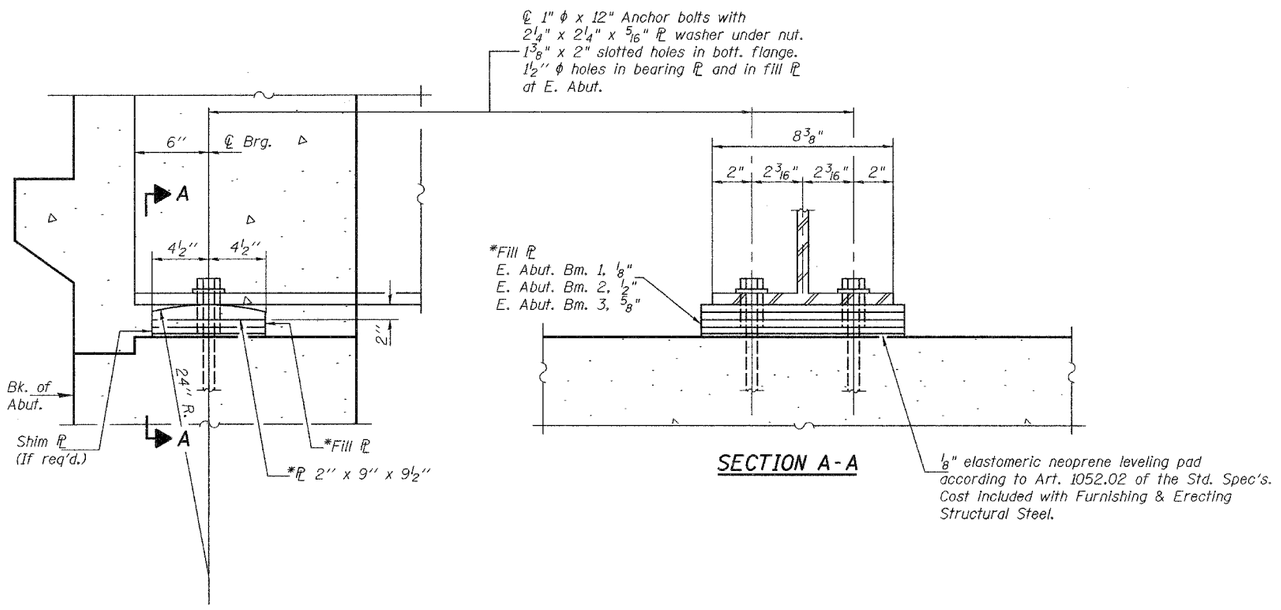
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 777	10B-1	MONTGOMERY	104	66
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

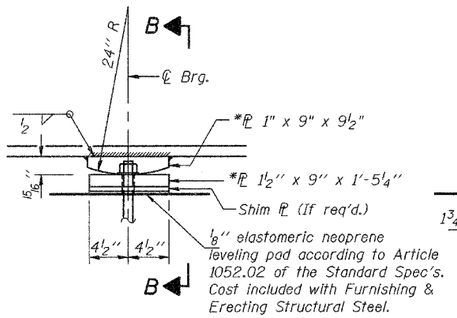
SHEET NO. 14
23 SHEETS

Contract #92667

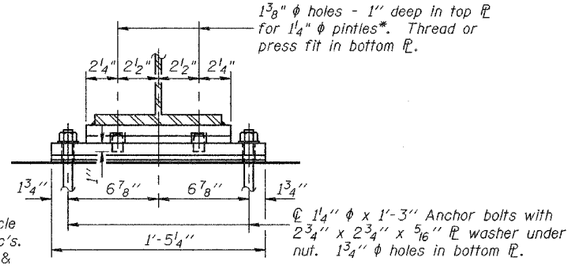


SECTION A-A

ELEVATION AT ABUTS.

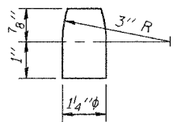


ELEVATION AT PIERS



SECTION B-B

FIXED BEARING



PINTLE

* M270 Grade 50W.

Notes: Anchor bolts at fixed bearings may be built into the masonry.
See sheet 15 of 23 for anchor bolt installation details.

DESIGNED	Daniel F. Zerrusen
CHECKED	Stephen M. Ryan
DRAWN	R. Doty h.t. duong
CHECKED	DFZ/SMR

Feb 3, 2006
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

BEARING DETAILS
F.A.P. ROUTE 777 SECTION 10B-1
MONTGOMERY COUNTY
STATION 500+44.04
STRUCTURE NO. 068-0505

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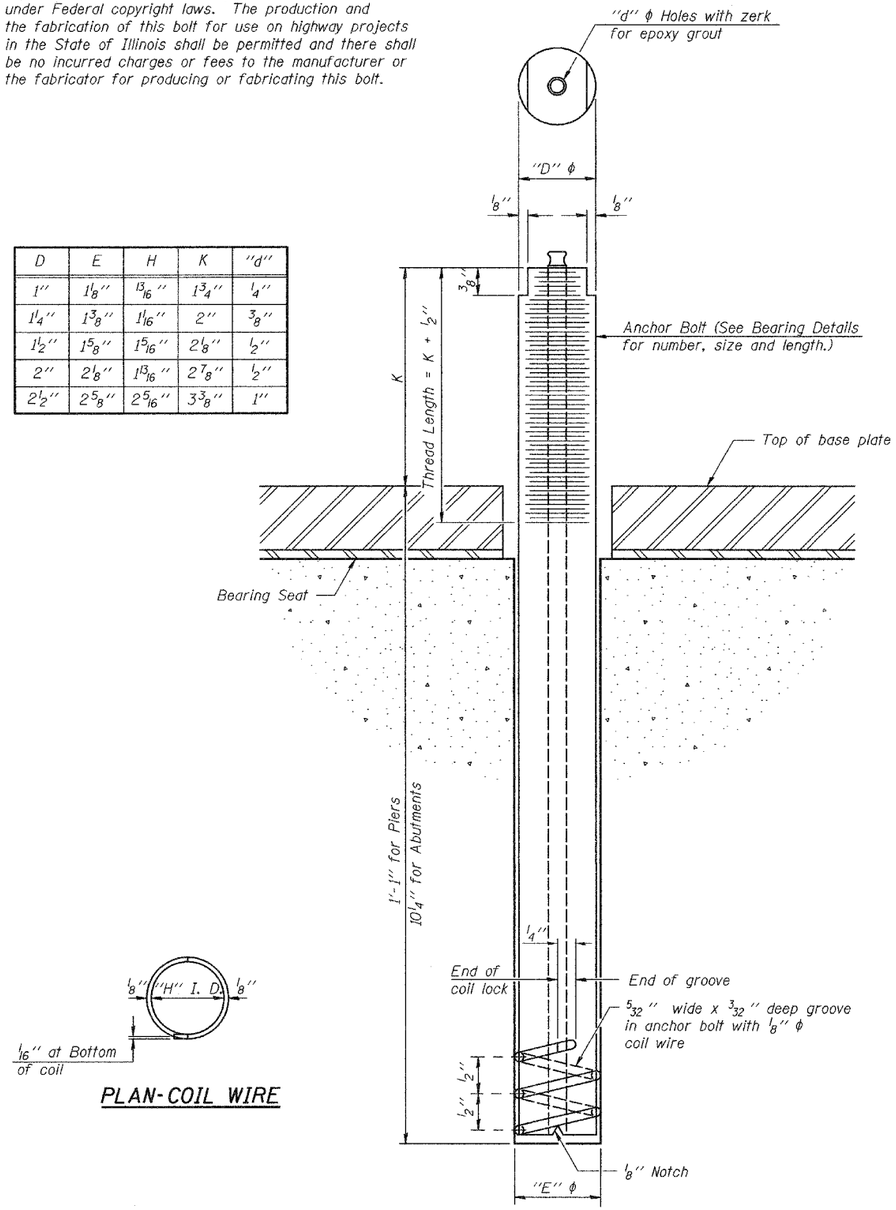
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 777	10B-1	MONTGOMERY	104	67
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 15
23 SHEETS

Contract #92667

D	E	H	K	"d"
1"	1 1/8"	13/16"	1 3/4"	1/4"
1 1/4"	1 3/8"	1 1/16"	2"	3/8"
1 1/2"	1 5/8"	1 5/16"	2 1/8"	1/2"
2"	2 1/8"	1 13/16"	2 7/8"	1/2"
2 1/2"	2 5/8"	2 5/16"	3 3/8"	1"



ILLINOIS COIL-LOCK ANCHOR BOLT

PLAN-COIL WIRE

MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A 519, Grade 1026, CW and supplied with hexagonal nuts and cut washers.

The coil wire shall be made of any suitable soft steel wire.

The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed.

The epoxy grout shall be a two-component, epoxy resin bonding system conforming to ASTM C 881, Type I, Grade 1 and of a Class suitable for the temperature at installation.

INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT

1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.
2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

ALTERNATE ANCHOR BOLTS

The Contractor may use, at his option, 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 type anchor rods shall be a two part system composed of:

1. A threaded rod stud with nut and washer of the type specified.
2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

Location	Type
Abutments	A307
Piers	A307

ASTM F 1554 Grade 105, ASTM A 449 and AASHTO M 314 Grade 105 anchor bolts may be substituted for the anchor bolts shown above.

GENERAL NOTES

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or according to the manufacturer's recommendation after beams or girders have been erected and adjusted.

Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming.

The anchor bolts, furnished and installed and including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for Furnishing and Erecting Structural Steel.

DESIGNED	Daniel F. Zerrusen
CHECKED	Stephen M. Ryan
DRAWN	R. Doty h.t. duong
CHECKED	DFZ/SMR

Feb 3, 2006

EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN

PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

ABB-1 10-22-04

ANCHOR BOLT DETAILS
FOR BEARINGS
F.A.P. ROUTE 777 SECTION 10B-1
MONTGOMERY COUNTY
STATION 500+44.04
STRUCTURE NO. 068-0505

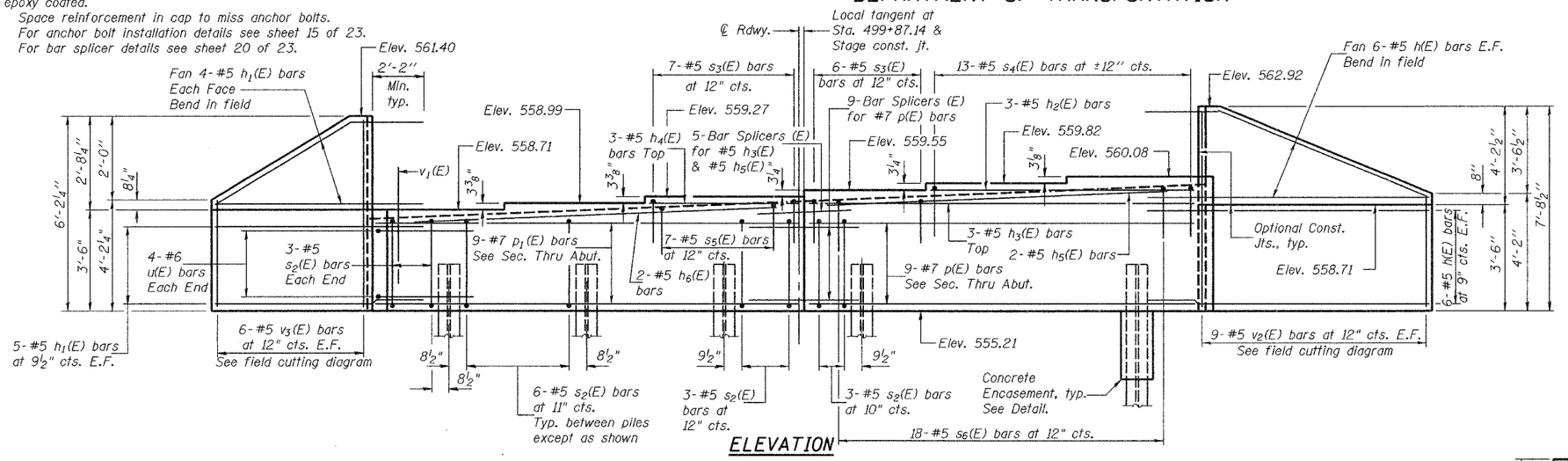
Notes:
Pour steps monolithically with cap.
Reinforcement bars designated (E) shall be epoxy coated.
Space reinforcement in cap to miss anchor bolts.
For anchor bolt installation details see sheet 15 of 23.
For bar splicer details see sheet 20 of 23.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

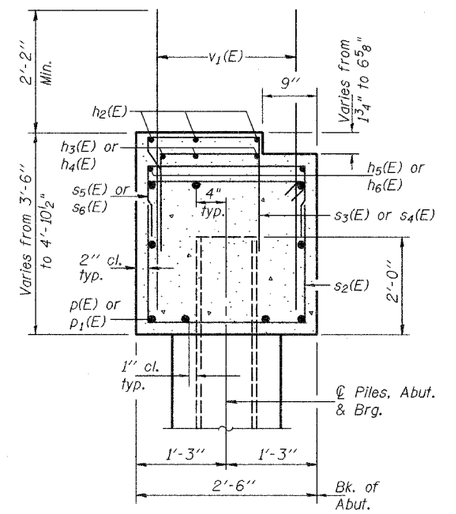
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 777	10B-1	MONTGOMERY	104	68
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 16
23 SHEETS

Contract #92667



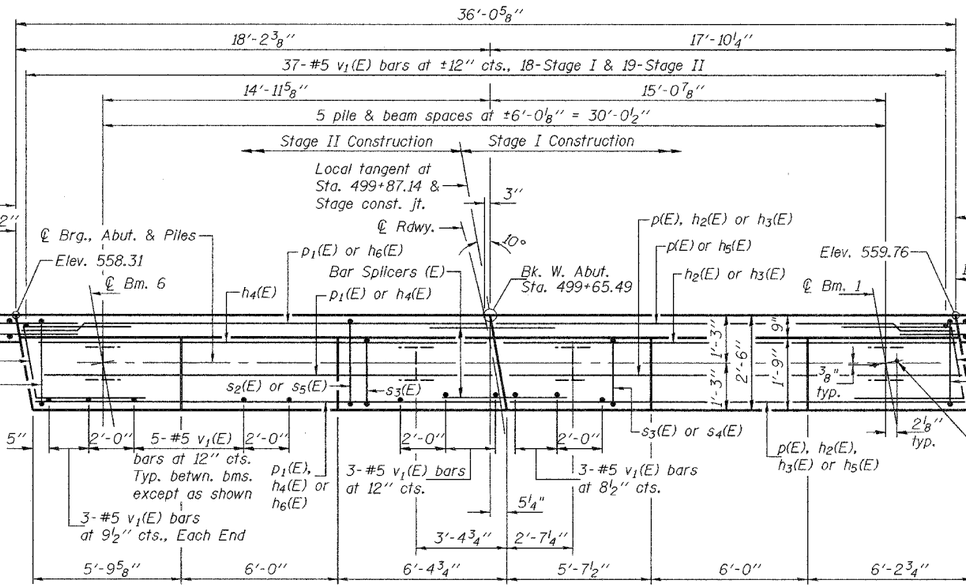
ELEVATION



SEC. THRU ABUT.
Dimensions are at Rt. L's

PILE DATA

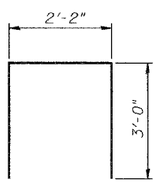
Type: Steel HP8x36
Capacity: Driven to Refusal
Est. Length: 34'
No. Required: 5 + 1 test pile



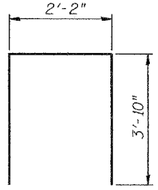
PLAN

BAR $s_3(E)$

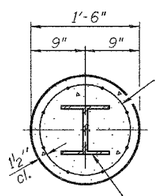
BAR $s_4(E)$



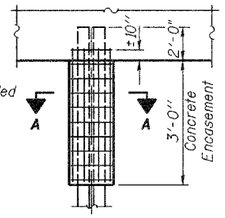
BAR $s_5(E)$



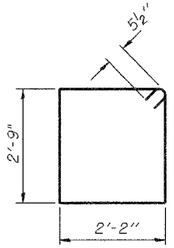
BAR $s_6(E)$



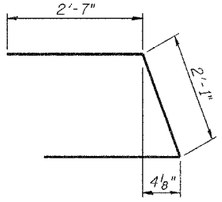
SECTION A-A



PILE ENCASEMENT DETAIL



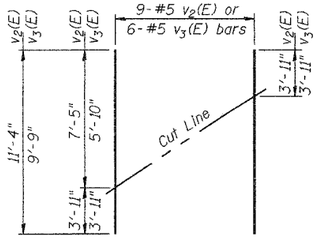
BAR $s_2(E)$



BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	24	#5	11'-1"	——
h_1(E)	18	#5	7'-8"	——
h_2(E)	3	#5	11'-6"	——
h_3(E)	3	#5	17'-6"	——
h_4(E)	3	#5	5'-8"	——
h_5(E)	2	#5	17'-6"	——
h_6(E)	2	#5	17'-10"	——
p(E)	9	#7	17'-6"	——
p_1(E)	9	#7	17'-10"	——
s_2(E)	36	#5	10'-9"	□
s_3(E)	13	#5	7'-11"	⊓
s_4(E)	13	#5	8'-11"	⊓
s_5(E)	7	#5	8-2"	⊓
s_6(E)	18	#5	9-10"	⊓
u(E)	8	#6	7'-3"	⌐
v_1(E)	69	#5	4'-4"	——
v_2(E)	9	#5	11'-4"	——
v_3(E)	6	#5	9-9"	——
Structure Excavation			Cu. Yd.	76.0
Concrete Structures			Cu. Yd.	16.6
Reinforcement Bars, Epoxy Coated			Pound	2700
Furnishing Steel Piles HP8x36			Foot	170
Driving Steel Piles			Foot	170
Test Pile Steel HP8x36			Each	1



FIELD CUTTING DIAGRAM
Order v_2(E) & v_3(E) bars full length. Cut as shown and use remainder of bars in opposite face.

DESIGNED	Daniel F. Zerrusen
CHECKED	Stephen M. Ryan
DRAWN	R. Doty h.t. duong
CHECKED	DFZ/SMR

Feb 3, 2006
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

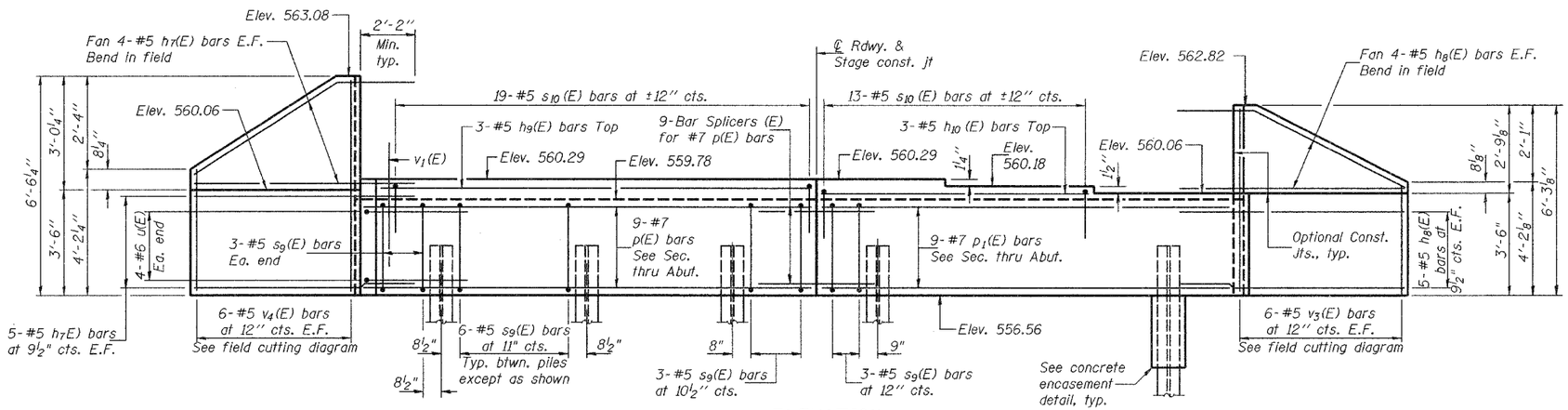
WEST ABUTMENT
F.A.P. ROUTE 777 SECTION 10B-1
MONTGOMERY COUNTY
STATION 500+44.04
STRUCTURE NO. 068-0505

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

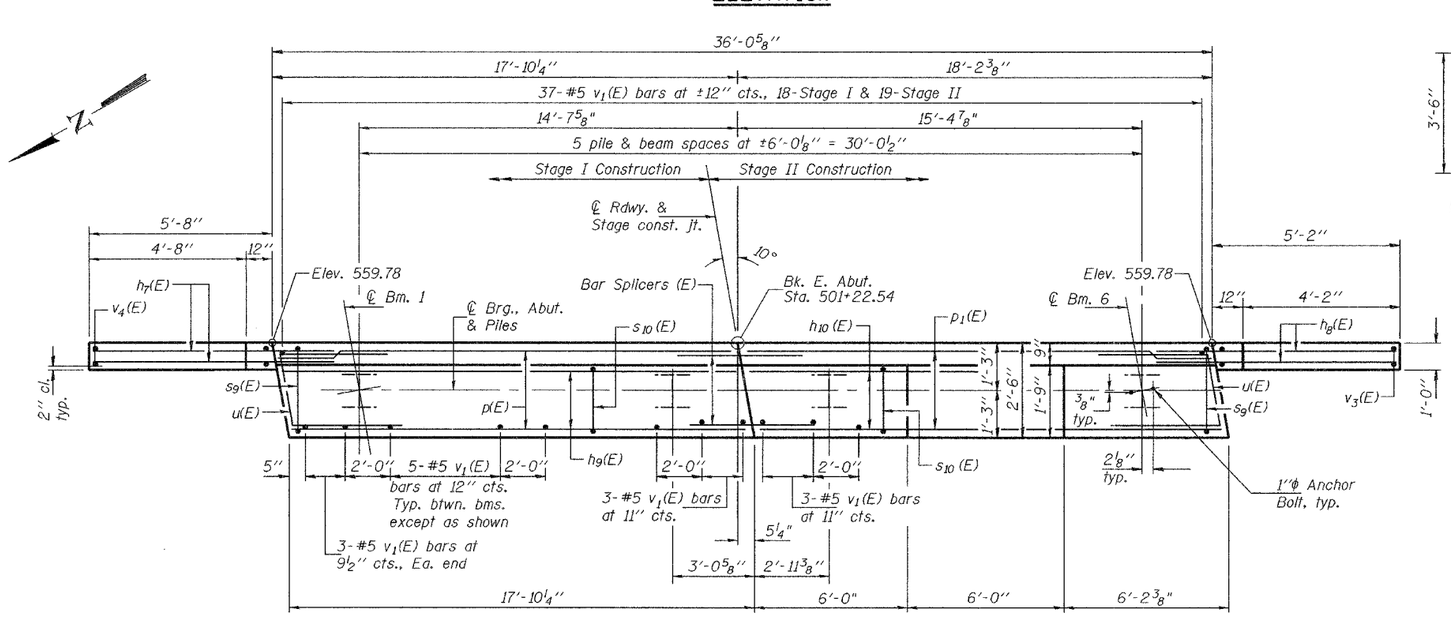
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 777	10B-1	MONTGOMERY	109	69
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 17
23 SHEETS

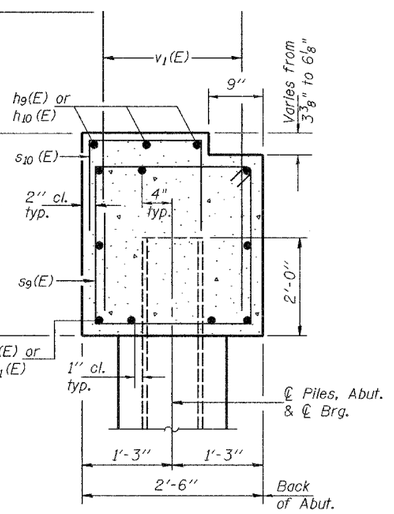
Contract #92667



ELEVATION

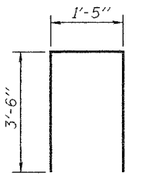


PLAN

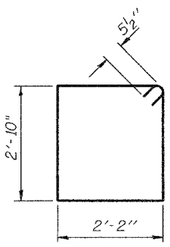


SEC. THRU ABUT.

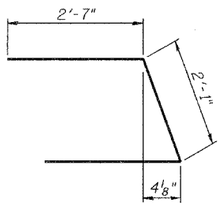
Dimensions are at Rt. L's



BAR s10 (E)



BAR s9(E)



BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h7(E)	18	#5	8'-5"	——
h8(E)	18	#5	7'-10"	——
h9(E)	3	#5	17'-6"	——
h10(E)	3	#5	11'-9"	——
p(E)	9	#7	17'-6"	——
p1(E)	9	#7	17'-10"	——
s9(E)	36	#5	10'-11"	⌐
s10(E)	32	#5	8'-5"	⌐
u(E)	8	#6	7'-3"	⌐
v1(E)	69	#5	4'-4"	——
v3(E)	12	#5	9'-11"	——
v4(E)	12	#5	10'-2"	——
Structure Excavation		Cu. Yd.	72.5	
Concrete Structures		Cu. Yd.	15.6	
Reinforcement Bars, Epoxy Coated		Pound	2390	
Furnishing Steel Piles HP8x36		Foot	204	
Driving Steel Piles		Foot	204	

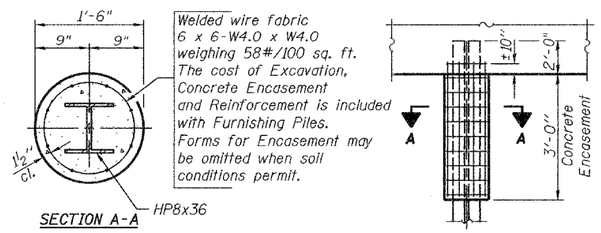
Notes:
Pour steps monolithically with cap.
Reinforcement bars designated (E) shall be epoxy coated.
Space reinforcement in cap to miss anchor bolts.
For anchor bolt installation details see sheet 15 of 23.
For bar splicer details see sheet 20 of 23.

DESIGNED	Daniel F. Zerrusen
CHECKED	Stephen M. Ryan
DRAWN	R. Doty h.t. duong
CHECKED	DFZ/SMR

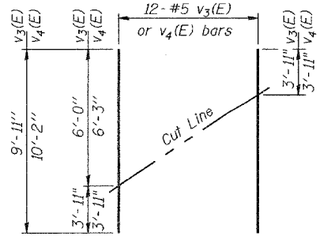
Feb 3, 2006
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

PILE DATA

Type: Steel HP8x36
Capacity: Driven to Refusal
Est. Length: 34'
No. Required: 6



PILE ENCASEMENT DETAIL



FIELD CUTTING DIAGRAM

Order v3(E) & v4(E) bars full length. Cut as shown and use remainder of bars in opposite face.

EAST ABUTMENT
F.A.P. ROUTE 777 SECTION 10B-1
MONTGOMERY COUNTY
STATION 500+44.04
STRUCTURE NO. 068-0505

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Notes:
Pour steps monolithically with cap.
Reinforcement bars designated (E) shall be epoxy coated.
Space reinforcement in cap to miss anchor bolts.
For anchor bolt installation details see sheet 15 of 23.
For bar splicer details see sheet 20 of 23.

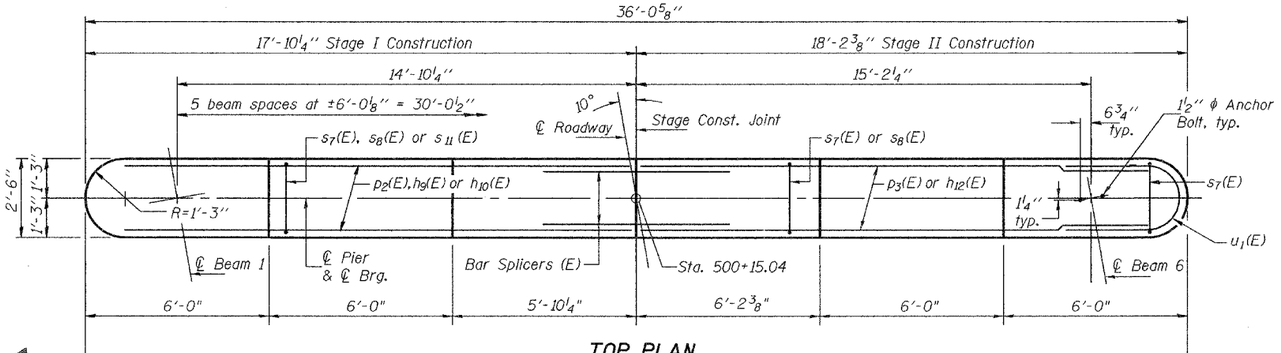
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 777	10B-1	MONTGOMERY	104	70
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

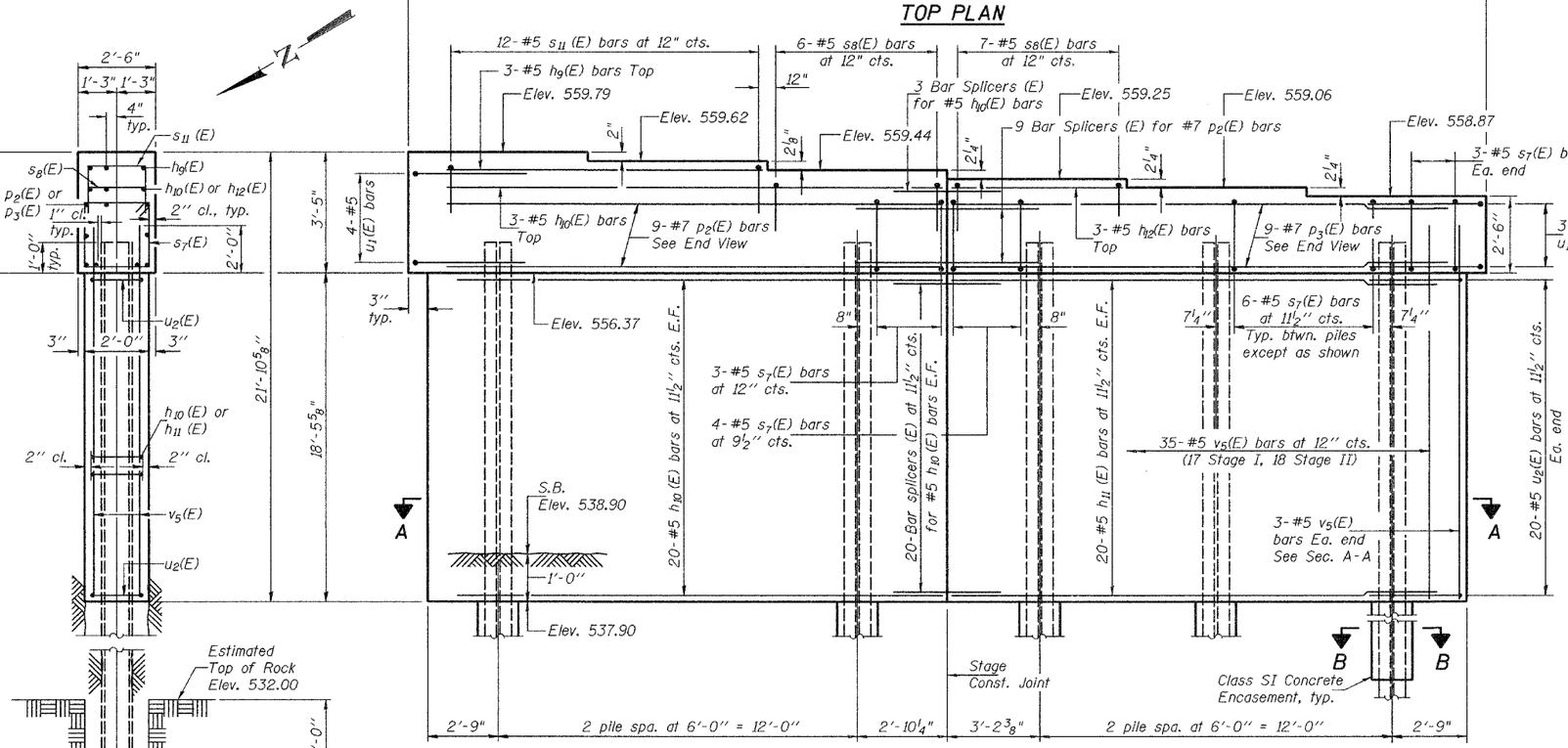
SHEET NO. 18
23 SHEETS

Contract #92667

TOP PLAN

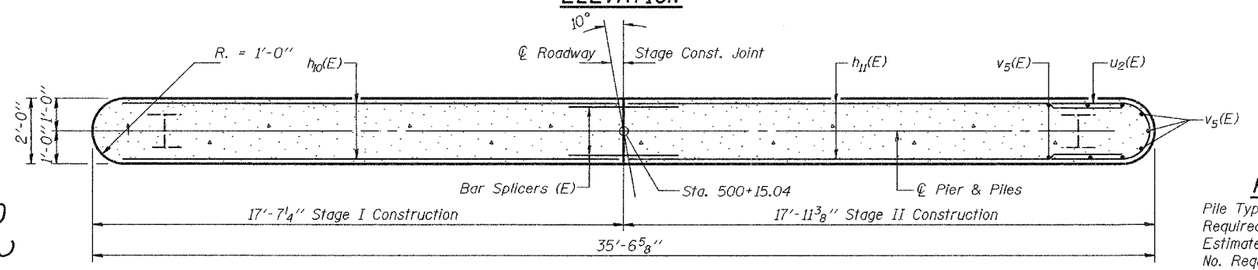


ELEVATION

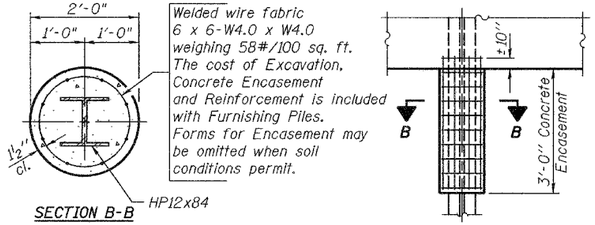


END VIEW

SECTION A-A

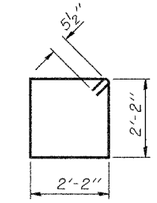


PILE ENCASEMENT DETAIL

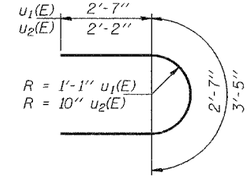


SECTION B-B

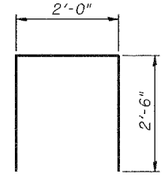
BAR $s_7(E)$



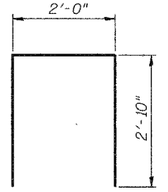
BARS $u_1(E)$ & $u_2(E)$



BAR $s_8(E)$



BAR $s_{11}(E)$



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_9(E)$	3	#5	10'-7"	——
$h_{10}(E)$	43	#5	16'-5"	——
$h_{11}(E)$	40	#5	16'-9"	——
$h_{12}(E)$	3	#5	5'-10"	——
$p_2(E)$	9	#7	16'-5"	——
$p_3(E)$	9	#7	16'-9"	——
$s_7(E)$	37	#5	9'-7"	⌐
$s_8(E)$	13	#5	7'-0"	⊓
$s_{11}(E)$	12	#5	7'-8"	⊓
$u_1(E)$	7	#6	8'-7"	⊃
$u_2(E)$	40	#5	6'-11"	⊃
$v_5(E)$	76	#5	20'-2"	——
Concrete Structures			Cu. Yd.	57.9
Reinforcement Bars, Epoxy Coated			Pound	4630
Furnishing Steel Piles HP12x53			Foot	204
Structure Excavation			Cu. Yd.	8.8
Underwater Structure Excavation Protection - Location 1			Each	1
Setting Piles in Rock			Each	6

PILE DATA

Pile Type: HP12x53
Required Bearing: Set on Rock
Estimated Length: 34'
No. Required: 6

DESIGNED	Daniel F. Zerrusen
CHECKED	Stephen M. Ryan
	h.t. duong
DRAWN	R. Doty
CHECKED	DFZ/SMR

Feb 3, 2006
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

PIER 1
F.A.P. ROUTE 777 SECTION 10B-1
MONTGOMERY COUNTY
STATION 500+44.04
STRUCTURE NO. 068-0505

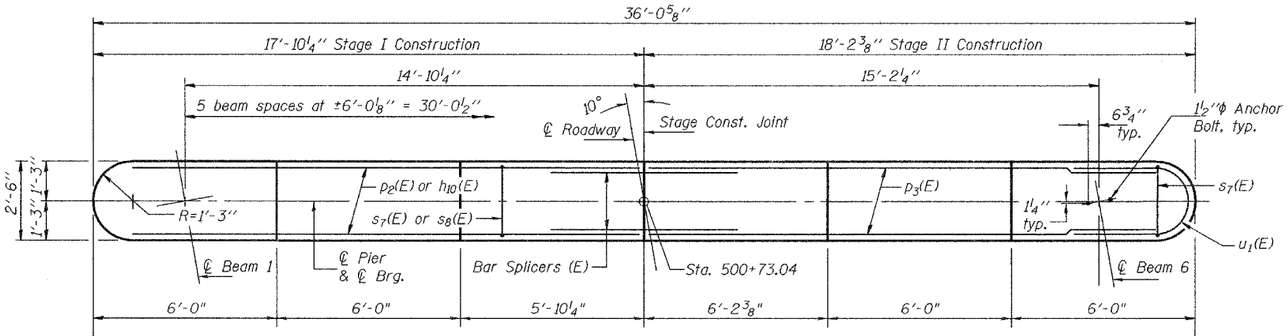
Notes:
Pour steps monolithically with cap.
Reinforcement bars designated (E) shall be epoxy coated.
Space reinforcement in cap to miss anchor bolts.
For anchor bolt installation details see sheet 15 of 23.
For bar splicer details see sheet 20 of 23.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

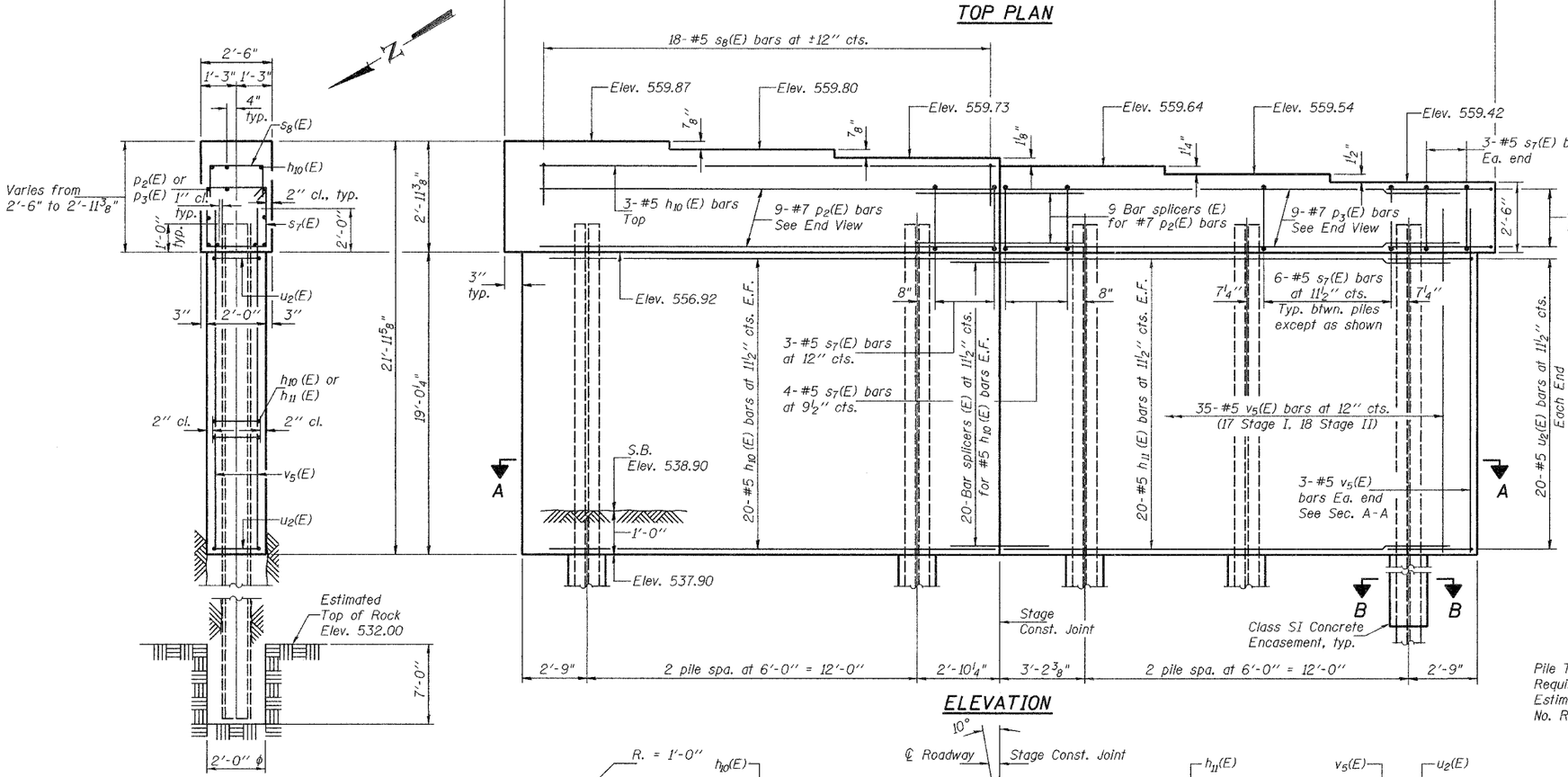
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 777	10B-1	MONTGOMERY	109	71
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 19
23 SHEETS

Contract #92667

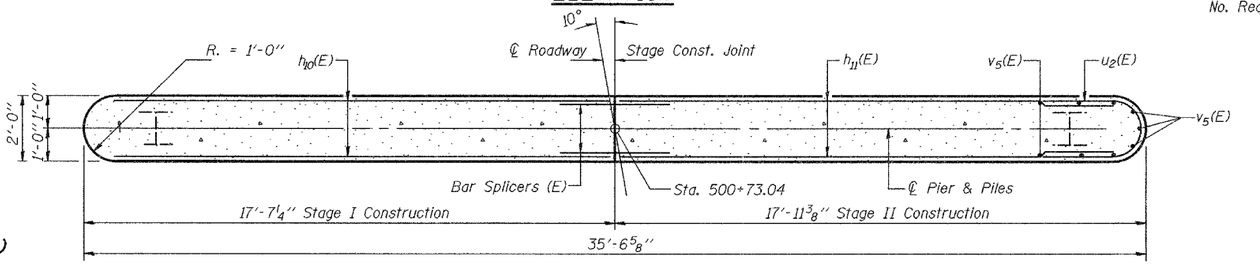


TOP PLAN

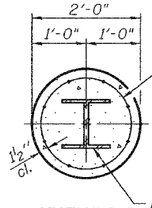


ELEVATION

END VIEW

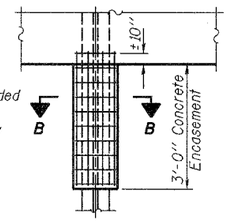


SECTION A-A

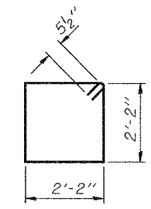


SECTION B-B

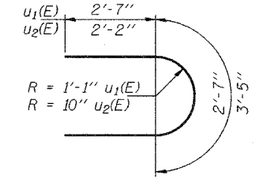
Welded wire fabric 6 x 6-W4.0 x W4.0 weighing 58#/100 sq. ft. The cost of Excavation, Concrete Encasement and Reinforcement is included with Furnishing Piles. Forms for Encasement may be omitted when soil conditions permit.



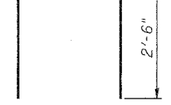
PILE ENCASEMENT DETAIL



BAR s7(E)



BARS u1(E) & u2(E)



BAR s8(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h10(E)	43	#5	16'-5"	
h11(E)	40	#5	16'-9"	
p2(E)	9	#7	16'-5"	
p3(E)	9	#7	16'-9"	
s7(E)	37	#5	9'-7"	
s8(E)	18	#5	7'-0"	
u1(E)	6	#6	8'-7"	
u2(E)	40	#5	6'-11"	
v5(E)	76	#5	20'-9"	
Concrete Structures		Cu. Yd.	58.6	
Reinforcement Bars, Epoxy Coated		Pound	4560	
Furnishing Steel Piles HP12x53		Foot	204	
Structure Excavation		Cu. Yd.	8.8	
Underwater Structure Excavation Protection -Location 2		Each	1	
Setting Piles in Rock		Each	6	

PILE DATA
Pile Type: HP12x53
Required Bearing: Set in Rock
Estimated Length: 34'
No. Required: 6

DESIGNED	Daniel F. Zerrusen
CHECKED	Stephen M. Ryan
DRAWN	R. Doty, h.t. duong
CHECKED	DFZ/SMR

Feb 3, 2006
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

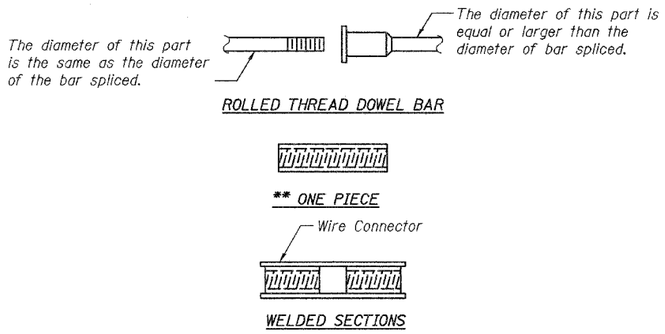
PIER 2
F.A.P. ROUTE 777 SECTION 10B-1
MONTGOMERY COUNTY
STATION 500+44.04
STRUCTURE NO. 068-0505

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 777	10B-1	MONTGOMERY	104	72
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

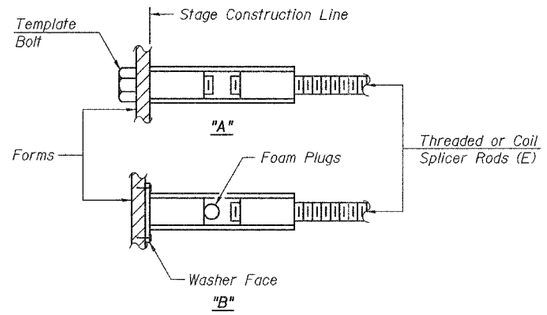
SHEET NO. 20
23 SHEETS

Contract #92667



BAR SPLICER ASSEMBLY ALTERNATIVES

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



INSTALLATION AND SETTING METHODS

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

NOTES

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

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

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

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

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

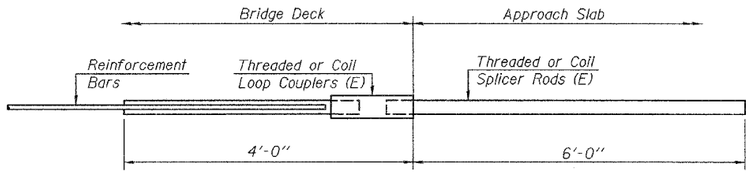
① Minimum Capacity (Tension in kips) = $1.25 \times fy \times A_t$

② Minimum *Pull-out Strength (Tension in kips) = $1.25 \times fs_{allow} \times A_t$

Where fy = Yield strength of lapped reinforcement bars in ksi.
fs_{allow} = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

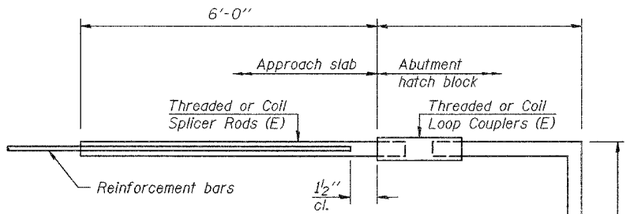
BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



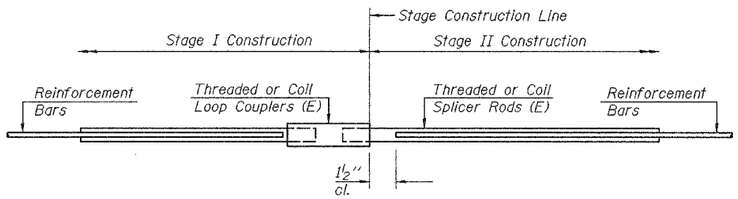
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required = 64



FOR PILE BENT ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required =



STANDARD

Bar Size	No. Assemblies Required	Location
#5	437	Slab
#6	16	Diaphragms
#7	18	Abutments
#7	18	Piers
#5	5	Abutments
#5	83	Piers

DESIGNED	Daniel F. Zerrusen
CHECKED	Stephen M. Ryan
DRAWN	R. Doty h.t. duong
CHECKED	DFZ/SMR

EXAMINED Thomas J. Domagalski Feb 3, 2006
ENGINEER OF BRIDGE DESIGN

PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

BSD-1 10-22-04

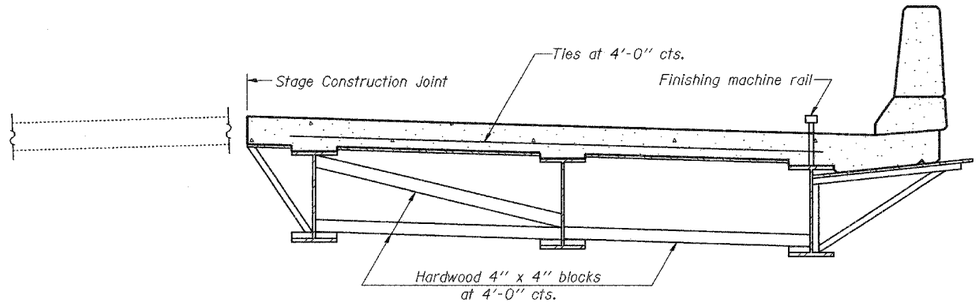
BAR SPLICER ASSEMBLY DETAILS
F.A.P. ROUTE 777 SECTION 10B-1
MONTGOMERY COUNTY
STATION 500+44.04
STRUCTURE NO. 068-0505

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 777	10B-1	MONTGOMERY	104	73
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 21
23 SHEETS

Contract #92667



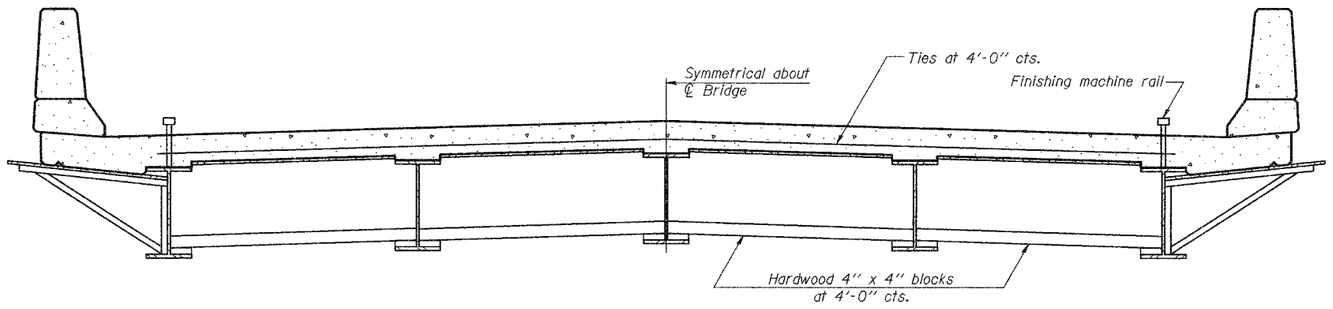
FORM BRACES FOR
STAGE CONSTRUCTION

When cantilever forming brackets are used, the work shall be done according to Article 503.06, except as modified below and in the details shown on this sheet.

The finishing machine rails shall be placed on the top flange of the exterior beams.

The beams or girders, supporting cantilever forming brackets, shall be tied together at 4 foot intervals.

For Standard construction, or Stage Construction the Hardwood bracing materials shall be placed as shown between webs of beams in each bay.



FORM BRACES FOR
STANDARD CONSTRUCTION

DESIGNED	Daniel F. Zerrusen
CHECKED	Stephen M. Ryan
DRAWN	R. Doty
CHECKED	DFZ/SMR

Feb 3, 2006
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

SB-1 10-22-04

CANTILEVER FORMING BRACKETS
FOR SUPERSTRUCTURES WITH
W27 BEAMS AND SMALLER
F.A.P. ROUTE 777 SECTION 10B-1
MONTGOMERY COUNTY
STATION 500+44.04
STRUCTURE NO. 068-0505

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 777	10B-1	MONTGOMERY	104	74
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 22
23 SHEETS

Contract #92667

Illinois Department of Transportation
Division of Highways
District Six Materials

SOIL BORING LOG

Page 1 of 1

Date _____

ROUTE FAP 777 (IL 185) DESCRIPTION Over East Fork Shoal Creek LOGGED BY _____

SECTION 10B-1 LOCATION SW 1/4, SEC. 6, TWP. 7 N, RNG. 2 W, 3 PM

COUNTY Montgomery DRILLING METHOD HSA HAMMER TYPE 140 # Manual

STRUCT. NO. 068-0028
Station 500+44

BORING NO. 1 SE Abut
Station 500+98
Offset 7.00ft Right
Ground Surface Elev. 561.2 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter 548.2 ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	Description
559.2				Existing Pavement and Sub-Base
	6	0.5 S	20	Soft, Damp to Very Damp, Brown, CLAY LOAM
-5				Bordering Silty Clay Loam
	4	0.5 E	24	
	3	0.4 S	24	
-10				
	3	0.4 E	24	
548.2				
	3	0.2 E	19	Very Loose or Very Soft, Wet, Brownish Grey, SANDY LOAM
-15				
545.7				
	1	0.2 B	21	Very Loose or Very Soft, Wet, Brownish Grey, SANDY CLAY LOAM
544.2				Soft, Wet, Brownish Grey, CLAY LOAM to CLAY
	9	0.3 B	25	
541.2 -20				

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	Description
				Loose, Wet, Grey, SAND
	6		19	
	6		18	
-25				
535.2				
	6	1.1 B	21	Stiff, Very Damp to Wet, Grey, CLAY TILL
533.7				
	66		16	Very Dense, Damp, Brown, Weathered, SHALE
531.2 -30				
	31		16	Dense, Damp to Very Damp, Brown Streaked Grey, SHALE Containing 1" to 2" Coal Seams
528.2				
	*		13	Very Dense, Moist to Dry, Brown, SHALE
-35				* = 3" Penetration for 50 Blows
524.7	*		10	
				Extent of Exploration
				Boring taken from March 1968 Plans
				Stations updated to October 2002 Stationing
-40				

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
District Six Materials

SOIL BORING LOG

Page 1 of 2

Date _____

ROUTE FAP 777 (IL 185) DESCRIPTION Over East Fork Shoal Creek LOGGED BY _____

SECTION 10B-1 LOCATION SW 1/4, SEC. 6, TWP. 7 N, RNG. 2 W, 3 PM

COUNTY Montgomery DRILLING METHOD HSA HAMMER TYPE 140 # Manual

STRUCT. NO. 068-0028
Station 500+44

BORING NO. 2 NW Abut
Station 499+90
Offset 6.00ft Left
Ground Surface Elev. 560.9 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter 544.9 ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	Description
558.9				Existing Pavement and Sub-base
	9	0.3 S	13	Soft, Damp, Brown to Dark Brown, CLAY LOAM to SILTY CLAY LOAM
-5				Damp to Very Damp
	7	0.5 S	25	
	7	0.5 S	27	
-10				
	8	0.5 B-S	24	
548.9				
	10		16	Loose, Wet, SAND
-15				Damp, Brown
	5		20	
				Brown
	7		16	
-20				

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	Description
				Loose, Wet, SAND (continued)
	5		15	
				Greyish Brown
	8		17	
-25				Greyish Brown
	7		20	
				Grey
	7		20	
-30				Grey, Bordering SANDY LOAM
529.9				
	23		20	Very Dense, Moist to Damp, Brown, SHALE Medium
-35				
	110		19	
	98		21	
523.9				Contains 1" to 2" Coal Seams
				Extent of Exploration
				Boring taken from March 1968 Plans
				Stations updated to October 2002 Stationing
-40				

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
District Six Materials

SOIL BORING LOG

Page 2 of 2

Date _____

ROUTE FAP 777 (IL 185) DESCRIPTION Over East Fork Shoal Creek LOGGED BY _____

SECTION 10B-1 LOCATION SW 1/4, SEC. 6, TWP. 7 N, RNG. 2 W, 3 PM

COUNTY Montgomery DRILLING METHOD HSA HAMMER TYPE 140 # Manual

STRUCT. NO. 068-0028
Station 500+44

BORING NO. 2 NW Abut
Station 499+90
Offset 6.00ft Left
Ground Surface Elev. 560.9 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter 544.9 ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

Borings typed into gINT 06/2002
M. Metcalf

-45
-50
-55
-60

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)

SOIL BORING LOGS
F.A.P. ROUTE 777 SECTION 10B-1
MONTGOMERY COUNTY
STATION 500+44.04
STRUCTURE NO. 068-0505

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 777	10B-1	MONTGOMERY	104	75
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 23
23 SHEETS

Contract #92667

Illinois Department of Transportation
Division of Highways
District Six Materials

SOIL BORING LOG

Page 1 of 2

Date 7/302

ROUTE FAP 777 (IL 185) DESCRIPTION Over East Fork Shoal Creek LOGGED BY M. Tappen

SECTION 10B-1 LOCATION SW 14, SEC. 6, TWP. 7 N, RNG. 2 W, 3 PM

COUNTY Montgomery DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. 068-0028
Station 500+44

BORING NO. 3 SE Abut
Station 501+18
Offset 15.00ft Right
Ground Surface Elev. 561.2 ft

Surface Water Elev. 545.3 ft
Stream Bed Elev. No Data ft

Groundwater Elev.:
First Encounter 539.7 ft
Upon Completion Dry ft
After ____ Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	Material
				Grey Moist SILTY CLAY LOAM (Fill)
	0			
	1	0.6	21	
556.2 -5	2	B		
				Grey Moist Medium Grained SAND
	1			
	2			
	2			
553.2				
				Grey Moist SILTY CLAY LOAM
	1			
	1	0.5	27	
-10	1	B		
	0			
	1	0.6	31	
	2	B		
548.2				
				Grey V. Moist SILT LOAM
	0			
	0	0.3	26	
-15	0	B		
545.7				
				Grey Wet LOAM
	0			
	0	0.2	25	
	0	B		
542.2	0			
	0	0.5	23	Grey and Brown V. Moist LOAM
-20	1	B		

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	Material
540.7				Grey and Brown V. Moist LOAM (continued)
				Grey Medium Grained SAND Free Water
	2			
	3			
538.2				
				Brown and Blue Grey Moist CLAY LOAM (Till)
	0			
	1	0.8	22	
-25	2	B		
	1			
	4	4.0	16	
	6	B		
532.2	3			
	11		18	Greyish Brown Moist Weathered Clayey SHALE
-30	19			
	5			Light Brown Moist Clayey SHALE
-35	29		11	
	71 /6"			
	15			
	56		10	Tan and Grey Dry Fissle Clayey SHALE
521.2 -40	44			

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
District Six Materials

SOIL BORING LOG

Page 2 of 2

Date 7/302

ROUTE FAP 777 (IL 185) DESCRIPTION Over East Fork Shoal Creek LOGGED BY M. Tappen

SECTION 10B-1 LOCATION SW 14, SEC. 6, TWP. 7 N, RNG. 2 W, 3 PM

COUNTY Montgomery DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. 068-0028
Station 500+44

BORING NO. 3 SE Abut
Station 501+18
Offset 15.00ft Right
Ground Surface Elev. 561.2 ft

Surface Water Elev. 545.3 ft
Stream Bed Elev. No Data ft

Groundwater Elev.:
First Encounter 539.7 ft
Upon Completion Dry ft
After ____ Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	Material
	/1"			Boring Completed
				Refer STA to STA 501+00 STA Increase to East
				Refer Elevation to BM # 16 Chisled Square on SW Headwall BM # 16 = 561.3'
-45				
-50				
-55				
-60				

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)

SOIL BORING LOGS
F.A.P. ROUTE 777 SECTION 10B-1
MONTGOMERY COUNTY
STATION 500+44.04
STRUCTURE NO. 068-0505

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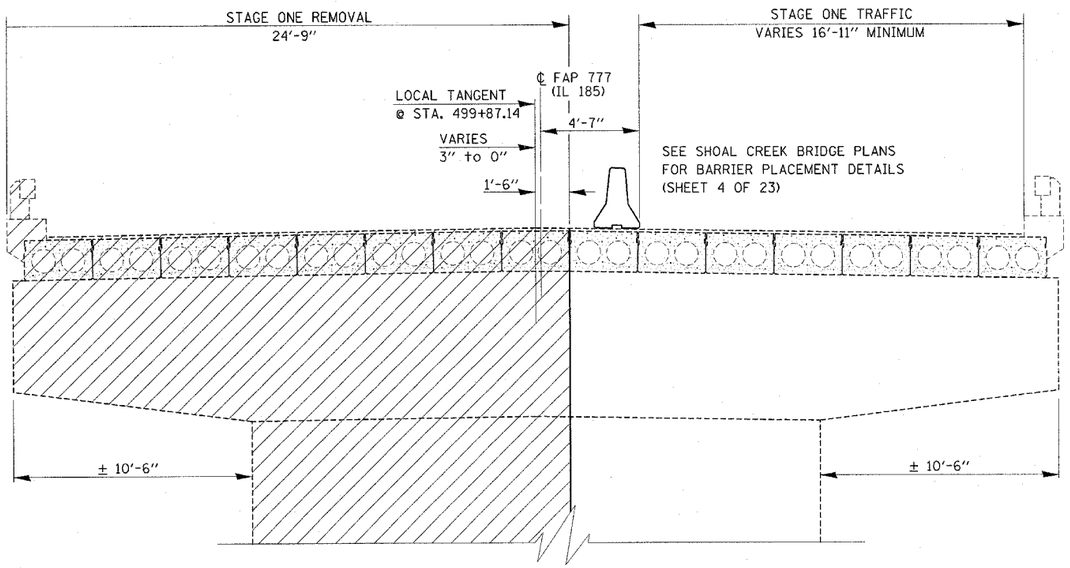
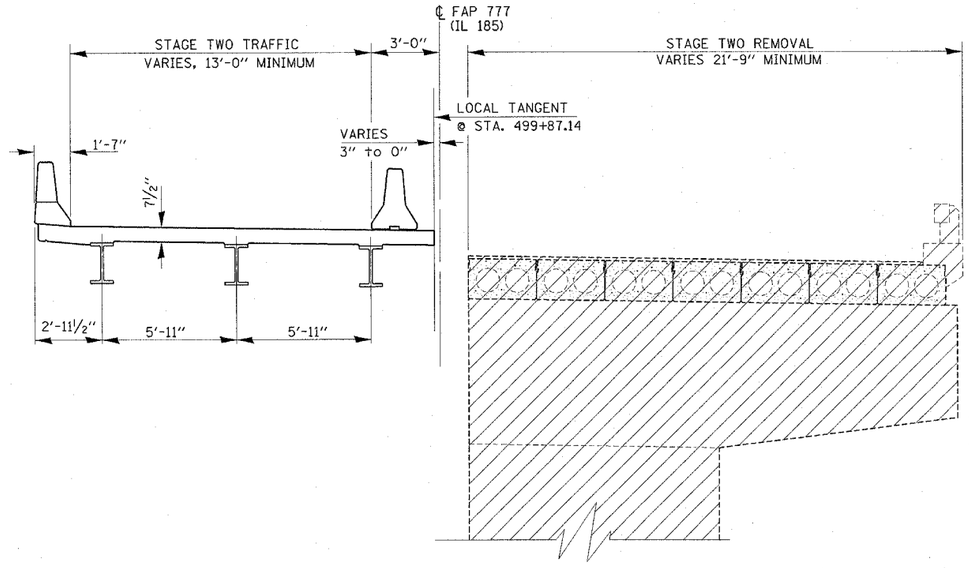
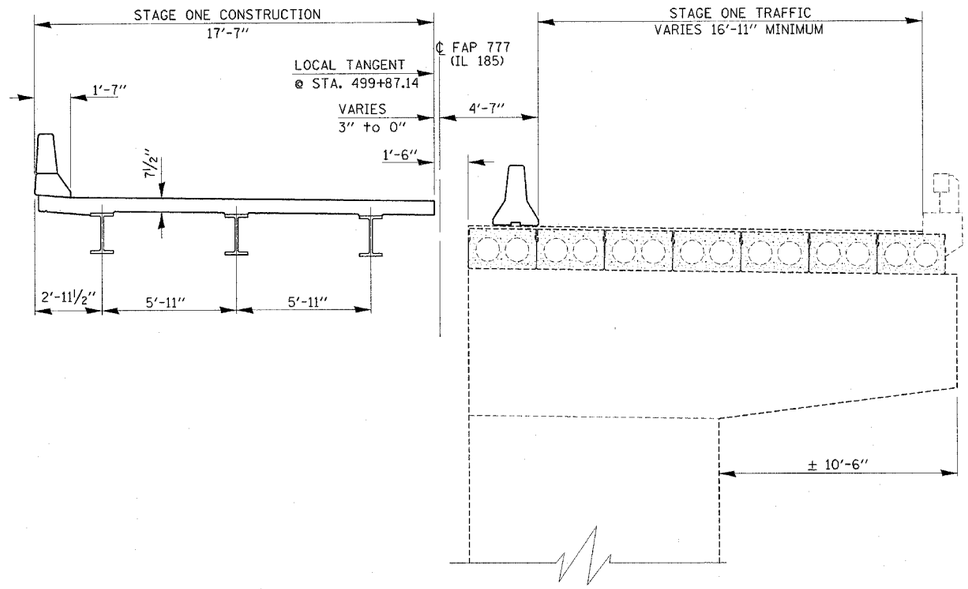
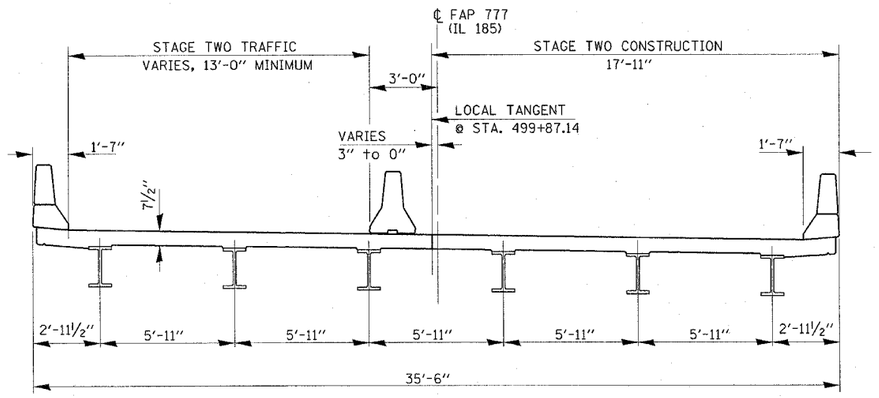
CONTRACT NO. 92667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	76
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		









REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION FOR
SHOAL CREEK

FAP 777 (IL RTE. 185)
EAST FORK SHOAL CREEK
SECTION 10 B-1
MONTGOMERY COUNTY

SCALE: VERT.
HORIZ.
DATE

DRAWN BY R.T.S.
CHECKED BY

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USER NAME = sieglert

CONTRACT NO. 92667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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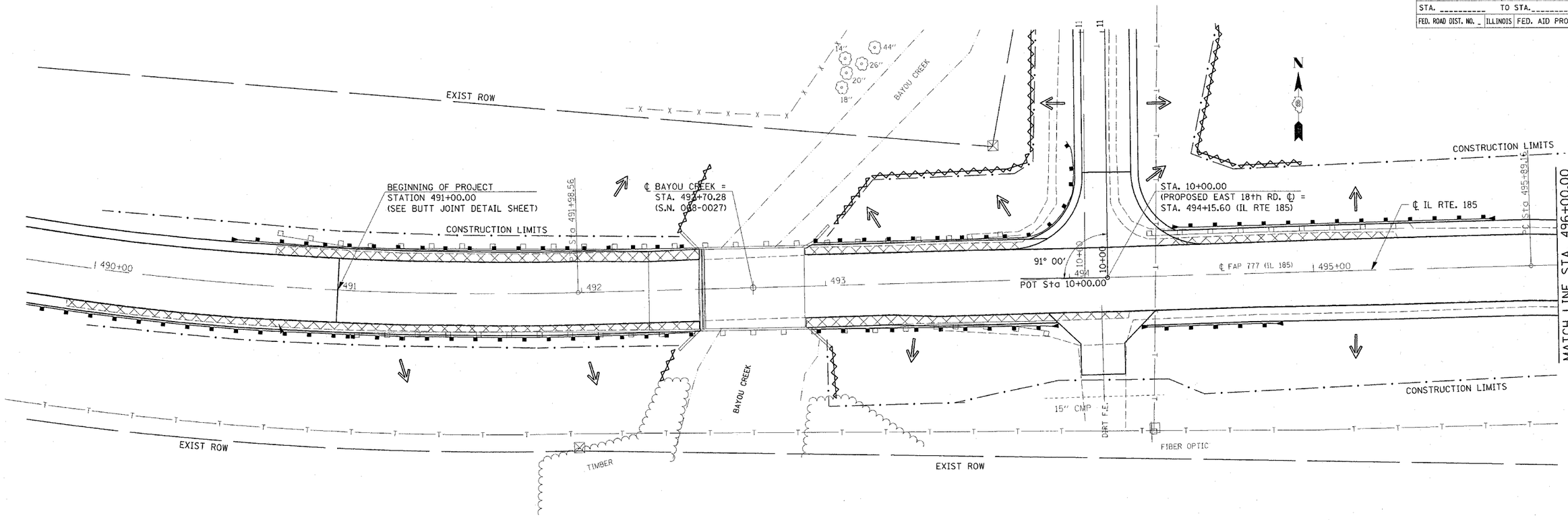
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



LEGEND FOR STORM WATER POLLUTION PREVENTION PLAN

- AGGREGATE (EROSION CONTROL) [STONE DUMPED RIPRAP DITCH CHECKS: Height = 2'-0"]
- TEMPORARY DITCH CHECKS (HAY OR STRAW BALE DITCH CHECKS OR APPROVED SUBSTITUTION)
- INLET PIPE PROTECTION (I&PP) (HAY OR STRAW BALE DITCH CHECKS OR APPROVED SUBSTITUTION)
- EROSION CONTROL FENCE
- EARTH EXCAVATION FOR EROSION CONTROL (SEDIMENT BASINS)
- PRESERVE EXISTING TREES, WOODLANDS, AND UNDERSTORY (OUTSIDE CONSTRUCTION LIMITS)
- * ITEM * ITEM PLACED AT BEGINNING OF CONSTRUCTION (Requirement)
- ITEM ITEM PLACED AS DIRECTED BY ENGINEER (When required by situation)
- DIRECTION OF OVERLAND FLOW

GENERAL NOTES

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

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

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

SHEET 1 OF 4

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

FAP 777 RTE. 185
10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT.
HORIZ.
DRAWN BY R.T.S.
DATE
CHECKED BY

PLOT DATE = 1/9/2006
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CONTRACT NO. 92667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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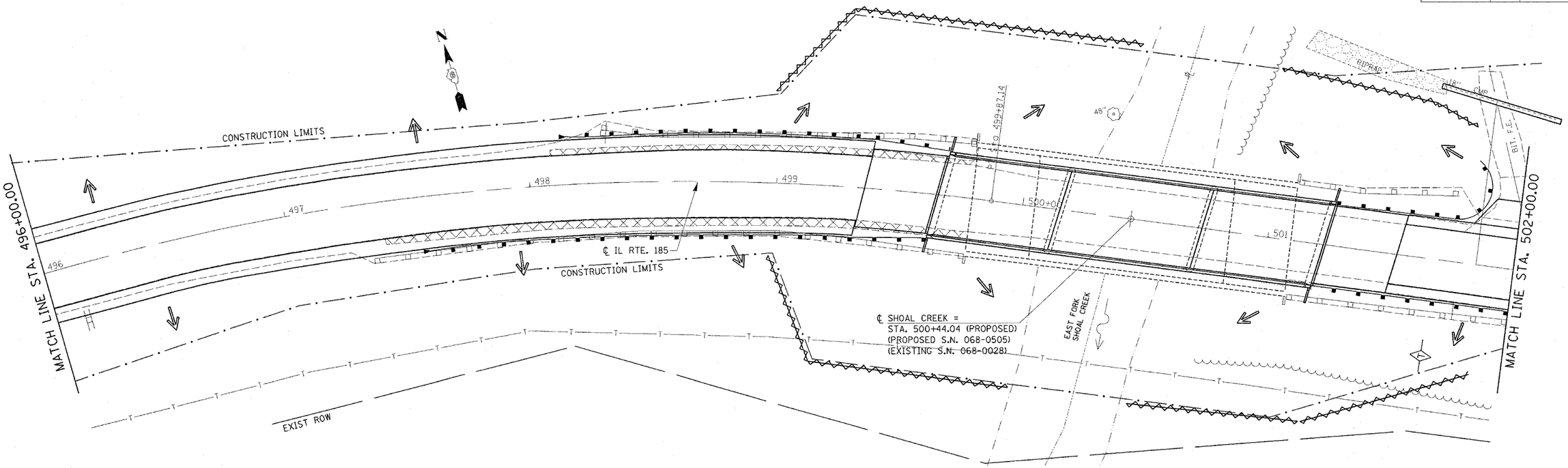
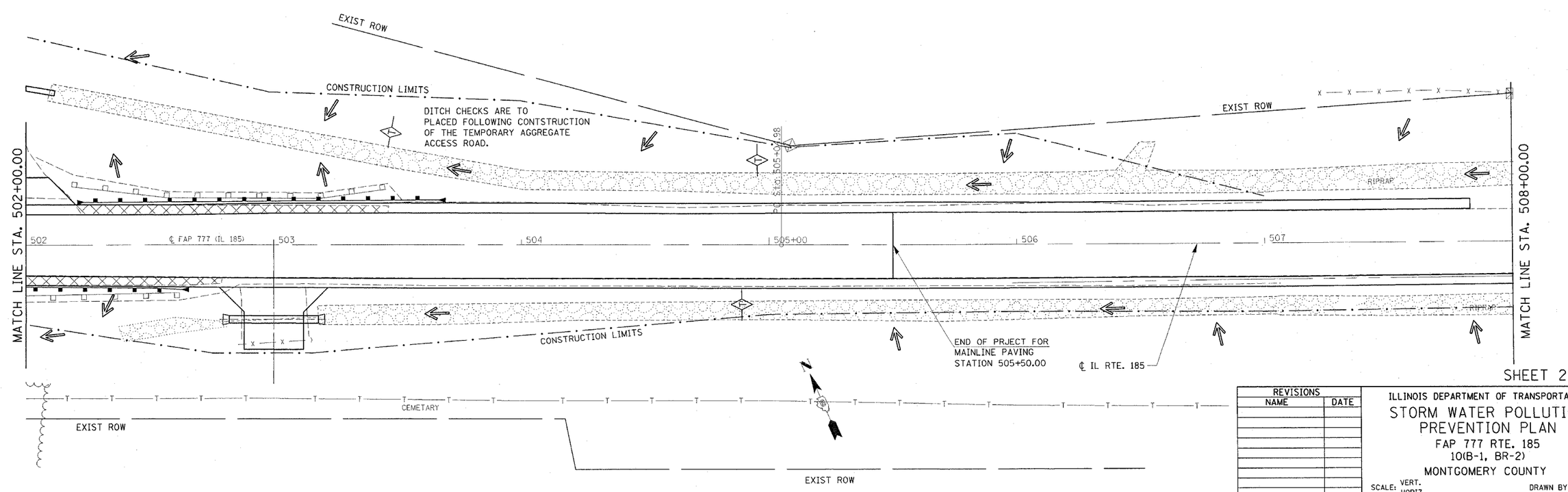
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		





SHEET 2 OF 4

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

FAP 777 RTE. 185
10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT.
HORIZ.
DATE

DRAWN BY R.T.S.
CHECKED BY

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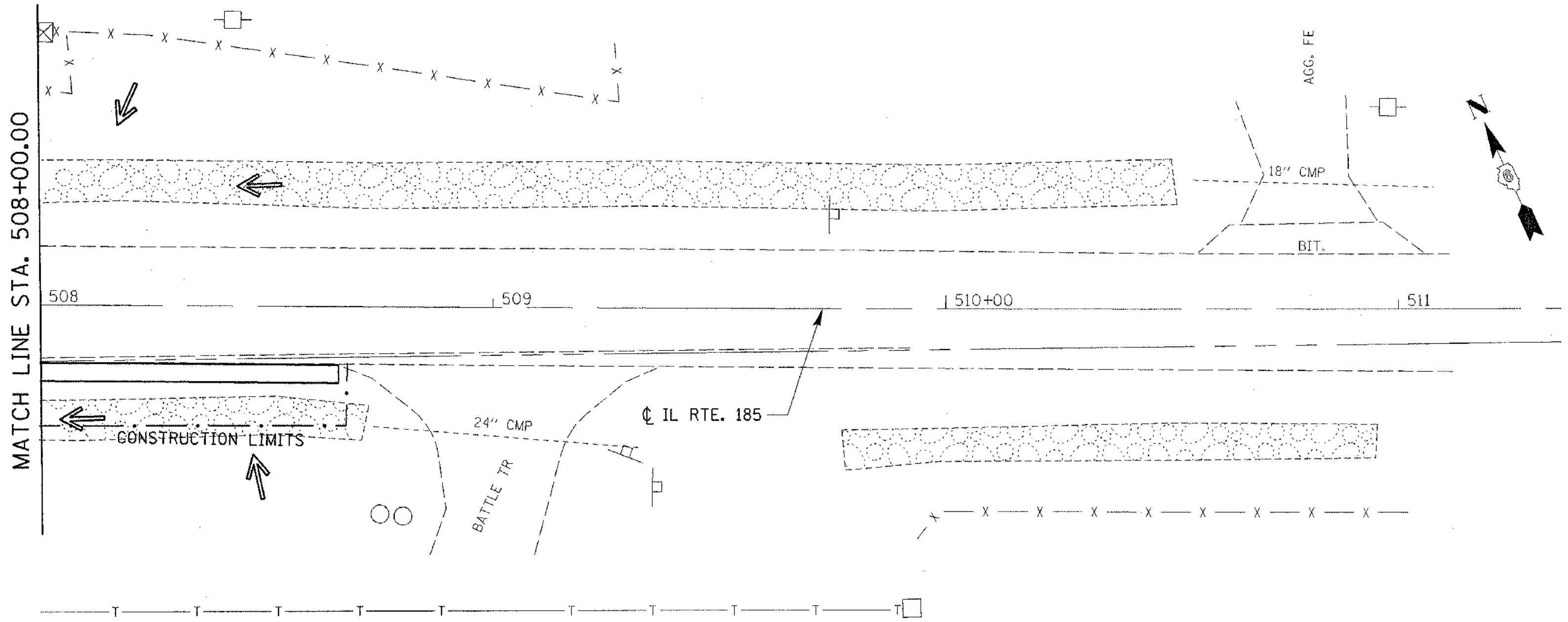
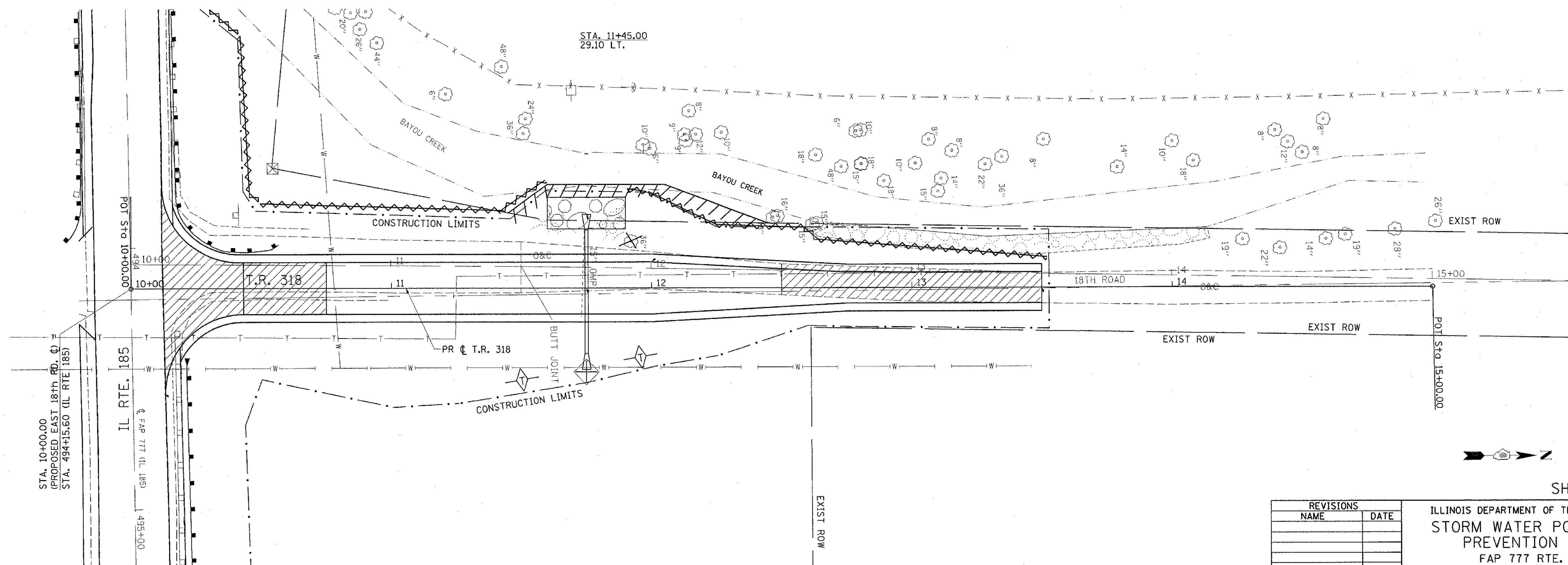
CONTRACT NO. 92667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	79

STA. ________ TO STA. ________

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





SHEET 3 OF 4

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

FAP 777 RTE. 185

10(B-1, BR-2)

MONTGOMERY COUNTY

SCALE: VERT. HORIZ.

DATE

DRAWN BY R.T.S.

CHECKED BY

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CONTRACT NO. 92667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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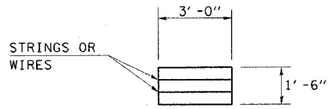
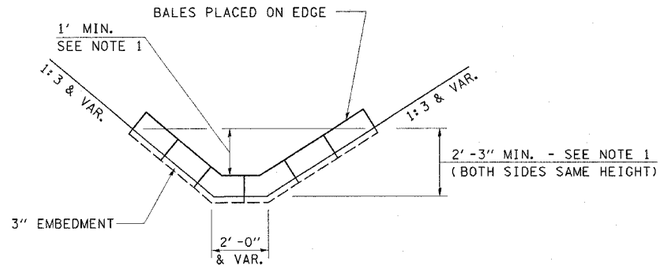
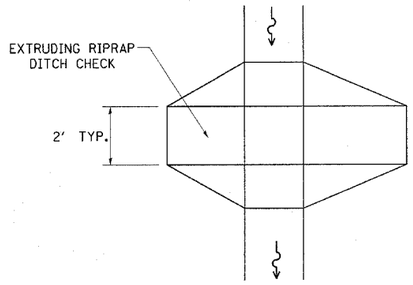
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



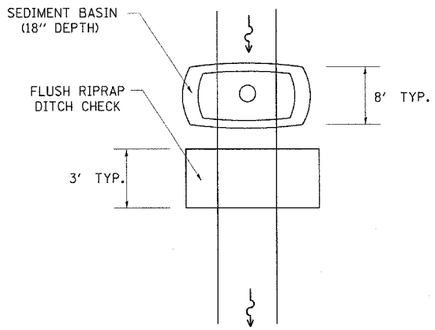
HAY OR STRAW BALE
(TYPICAL ELEVATION)



HAY OR STRAW BALE TEMPORARY DITCH CHECK
(TYPICAL & SEE GENERAL NOTES FOR SUBSTITUTION TO FLUSH RIPRAP DITCH CHECK)



PLAN

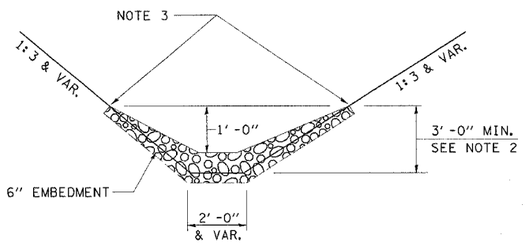


PLAN

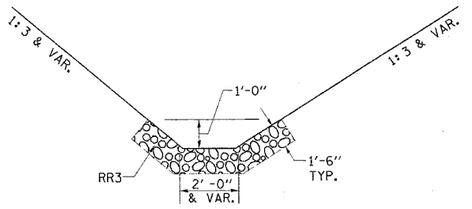
NOTE 1: BALES SHALL EXTEND FAR ENOUGH UP THE SLOPES TO ALLOW 1' OVERTOPPING TO AVOID ERODING AROUND THE EDGES OF THE BALES.

NOTE 2: RIPRAP SHALL EXTEND FAR ENOUGH UP THE SLOPES TO ALLOW 1' OVERTOPPING TO AVOID ERODING AROUND THE EDGES OF THE RIPRAP.

NOTE 3: ENDS SHALL BE TIED INTO SLOPES.



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



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

STONE DUMPED RIPRAP DITCH CHECK
(TYPICAL & OPTIONS 1 & 2 AS DIRECTED BY THE ENGINEER)

SHEET 4 OF 4

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
STORM WATER POLLUTION PREVENTION PLAN
FAP 777 RTE. 185
10(B-1, BR-2)
MONTGOMERY COUNTY
SCALE: VERT. HORIZ.
DRAWN BY R.T.S.
DATE
CHECKED BY

PLOT DATE = 1/5/2006
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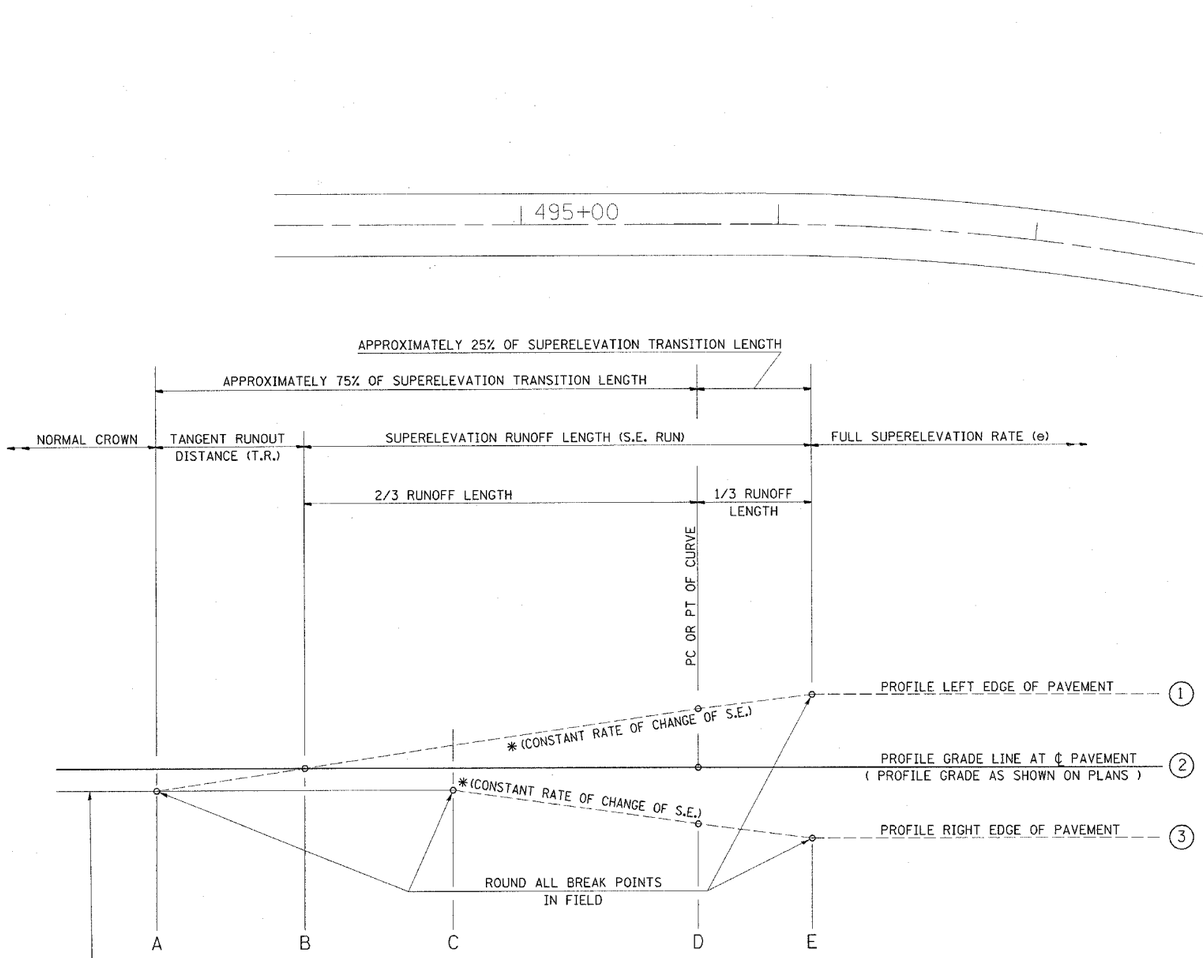
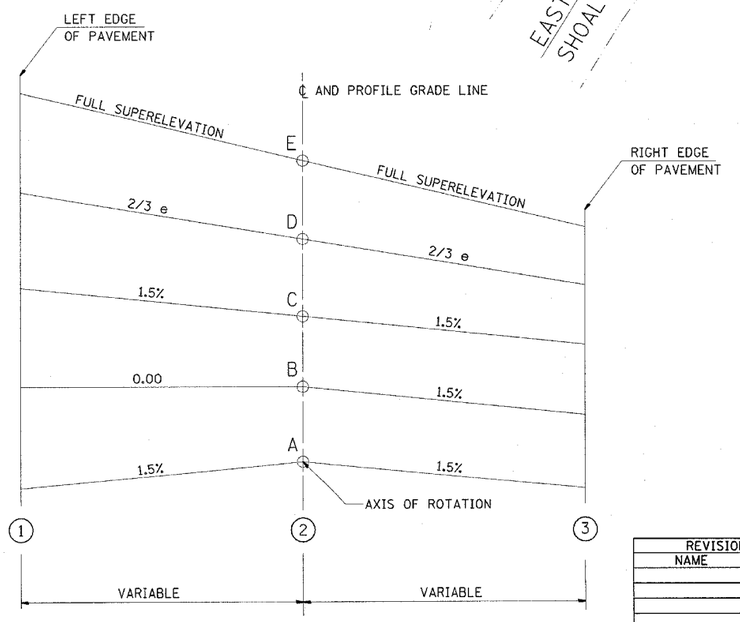
CONTRACT# 92667

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	81
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



TYPICAL PROFILE - S.E. TRANSITION



TYPICAL CROSS SECTION - S.E. TRANSITION

EXISTING CURVE #4
P.I. STA. 497+91.17
△ = 24° 14′ 26″ (RT.)
D = 6° 05′ 27″
T = 202.01′
R = 940.67′
L = 397.98′
E = 21.45′
FULL S.E. = 6.0%
P.C. STA. 495+89.16
P.T. STA. 499+87.14

e= SUPERELEVATION RATE IN PERCENT
T.R.= TANGENT RUNOUT DISTANCE
S.E. RUN= SUPERELEVATION RUNOFF LENGTH

TABLE OF SUPERELEVATION BREAK POINT LOCATIONS

CURVE NO.	e	A	B	C	D	E	TRANSITION
4	6%	501+56.42	501+10.42	500+64.42	499+87.14 (pt)	499+26.42	Trans. In

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUPERELEVATION DETAILS

FAP 777 (IL RTE. 185)
SECTION 10 B-1
MONTGOMERY COUNTY

SCALE: VERT.
HORIZ.
DRAWN BY RTS
DATE
CHECKED BY

PLOT DATE = 1/9/2006
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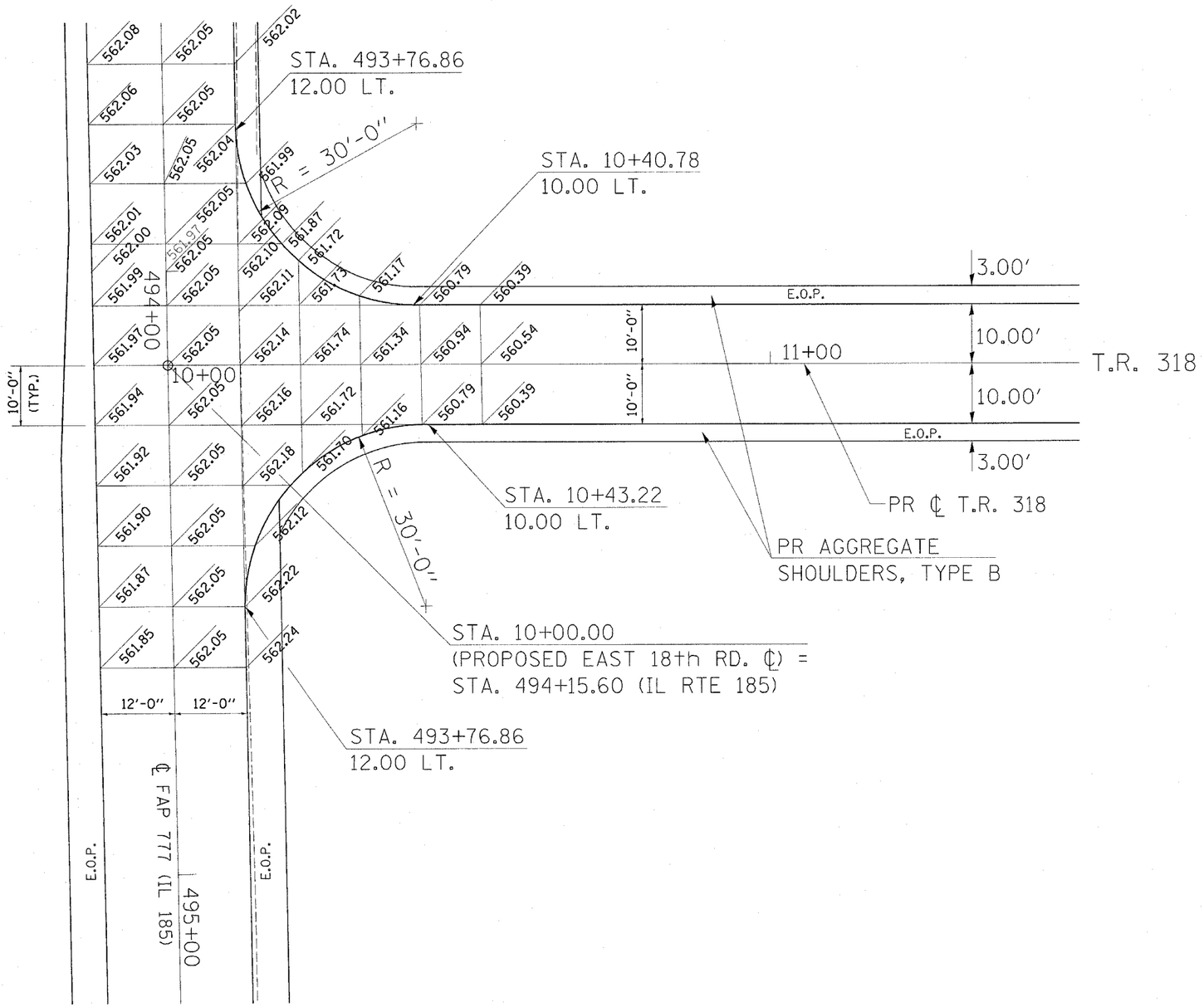
CONTRACT NO. 92667

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	82
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SUPEREVELATION RATE TABLE

STA.	SUPER ELEVATION RATE	PR. ELEV. @ E. O. P (LT)	PR. ELEV. @ CENTER LINE	PR. ELEV. @ E. O. P. (RT)
493+00.00	1.49% LT	561.87	562.05	562.23
493+50.00	0.53% LT	561.99	562.05	562.11
493+60.00	0.34% LT	562.01	562.05	562.09
493+70.00	0.15% LT	562.03	562.05	562.07
493+78.00	0.00%	562.05	562.05	562.05
793+80.00	0.04% RT	562.05	562.05	562.04
493+90.00	0.23% RT	562.08	562.05	562.02
494+00.00	0.42% RT	562.10	562.05	562.00
494+06.30	0.54% RT	562.11	562.05	561.99
494+25.00	0.90%RT	562.16	562.05	561.94
494+50.00	1.37% RT	562.21	562.05	561.89
494+75.00	1.85% RT	562.27	562.05	561.83
495+00.00	2.32% RT	562.33	562.05	561.77
495+50.00	3.28% RT	562.44	562.05	561.66
496+00.00	4.23% RT	562.56	562.05	561.54
496+93.00	6.00% RT (FULL)	562.77	562.05	561.33

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

INTERSECTION ELEVATION DETAILS

FAP 777 RTE. 185
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT.
HORIZ.
DATE

DRAWN BY JLJ
CHECKED BY

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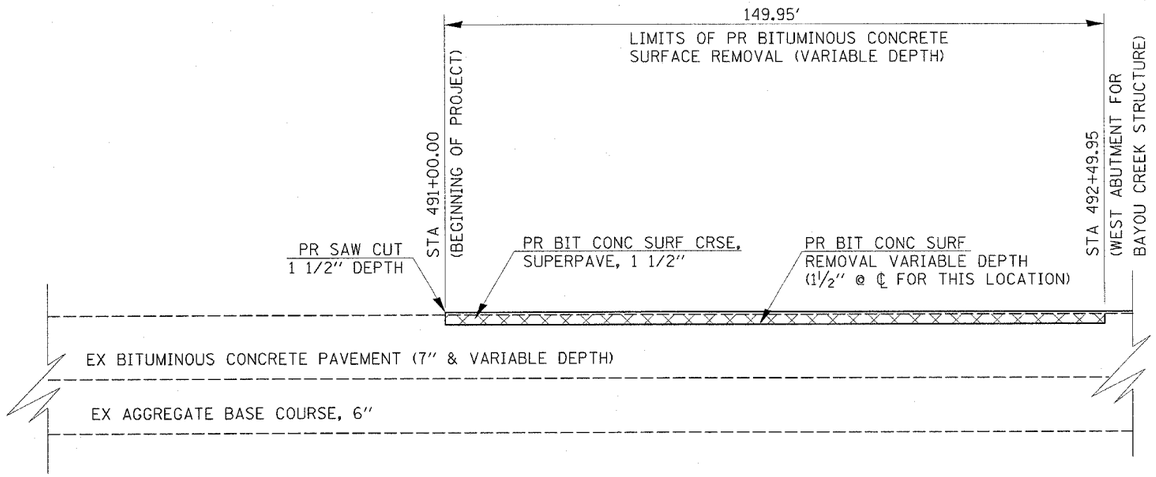
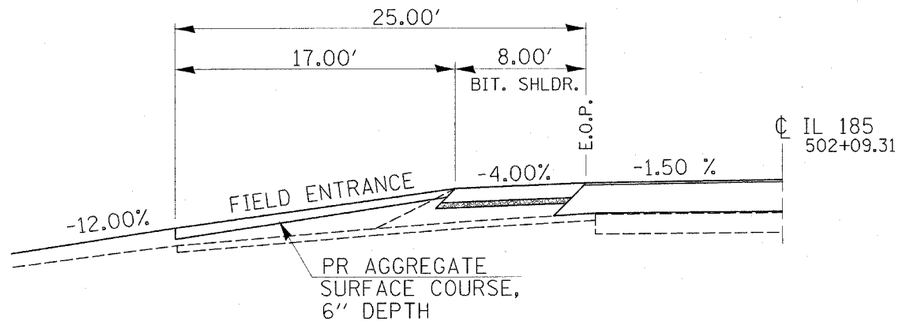
CONTRACT NO. 92667

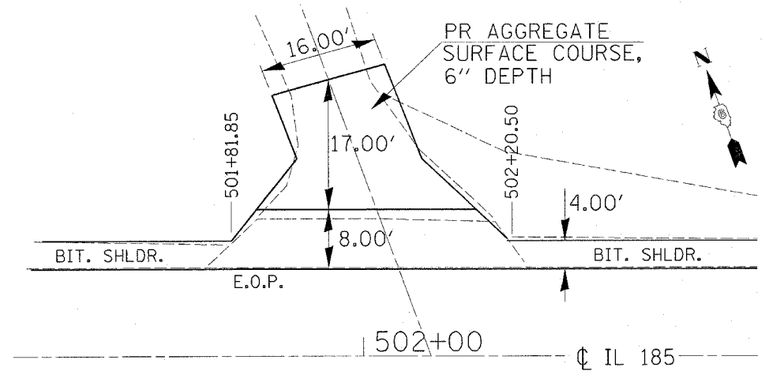
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	83
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PROPOSED PAVEMENT RESURFACING
BEGINNING OF PROJECT



ELEVATION VIEW



PLAN VIEW

PROPOSED FIELD ENTRANCE IMPROVEMENT
STA. 502+09.31

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS

FAP 777 RTE. 185
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT.
HORIZ.
DATE

DRAWN BY RTS
CHECKED BY

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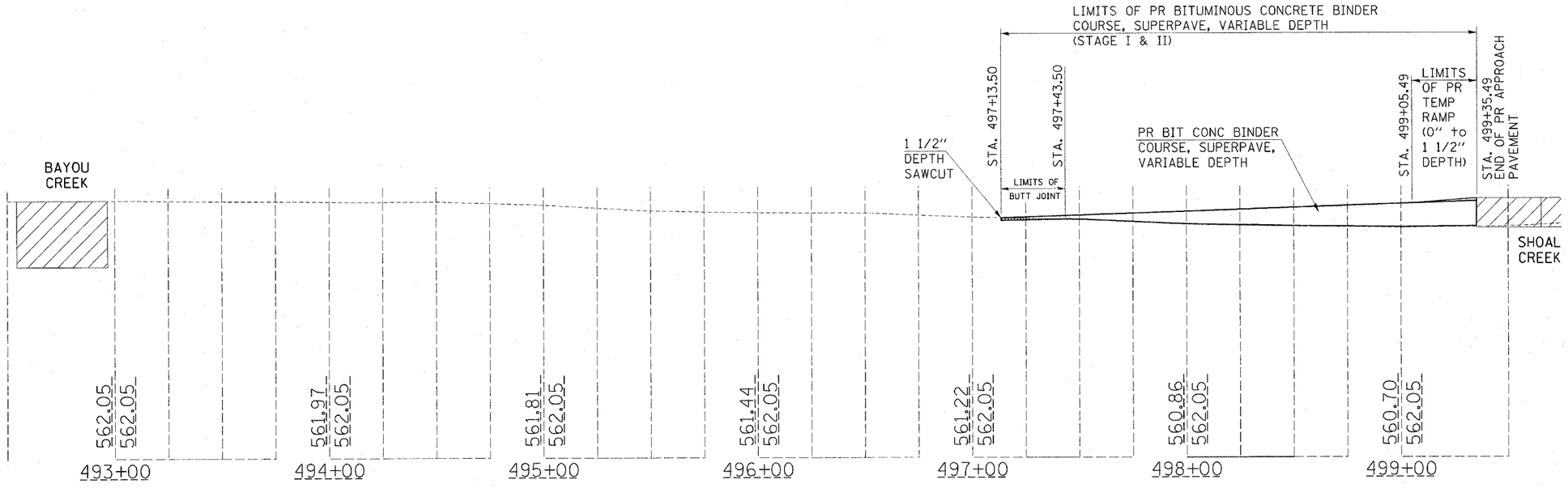
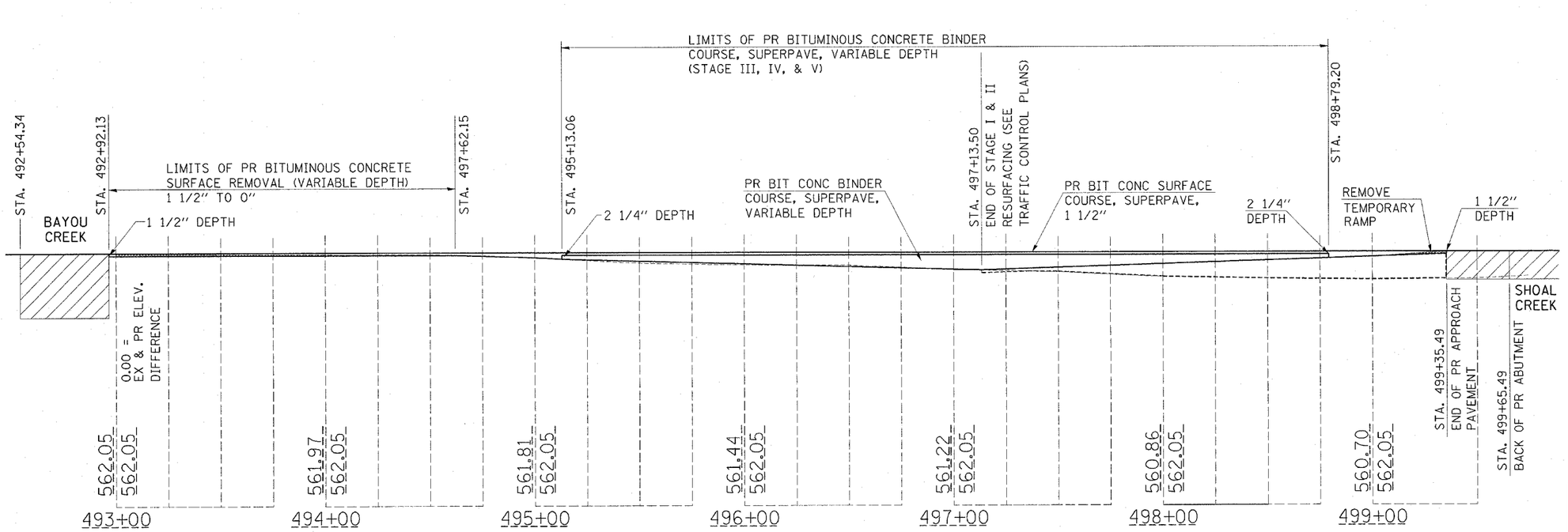
USER NAME = sleglert

CONTRACT# 92667

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	84
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



TRAFFIC CONTROL STAGES I & II RESURFACING



TRAFFIC CONTROL STAGES III, IV, & V RESURFACING

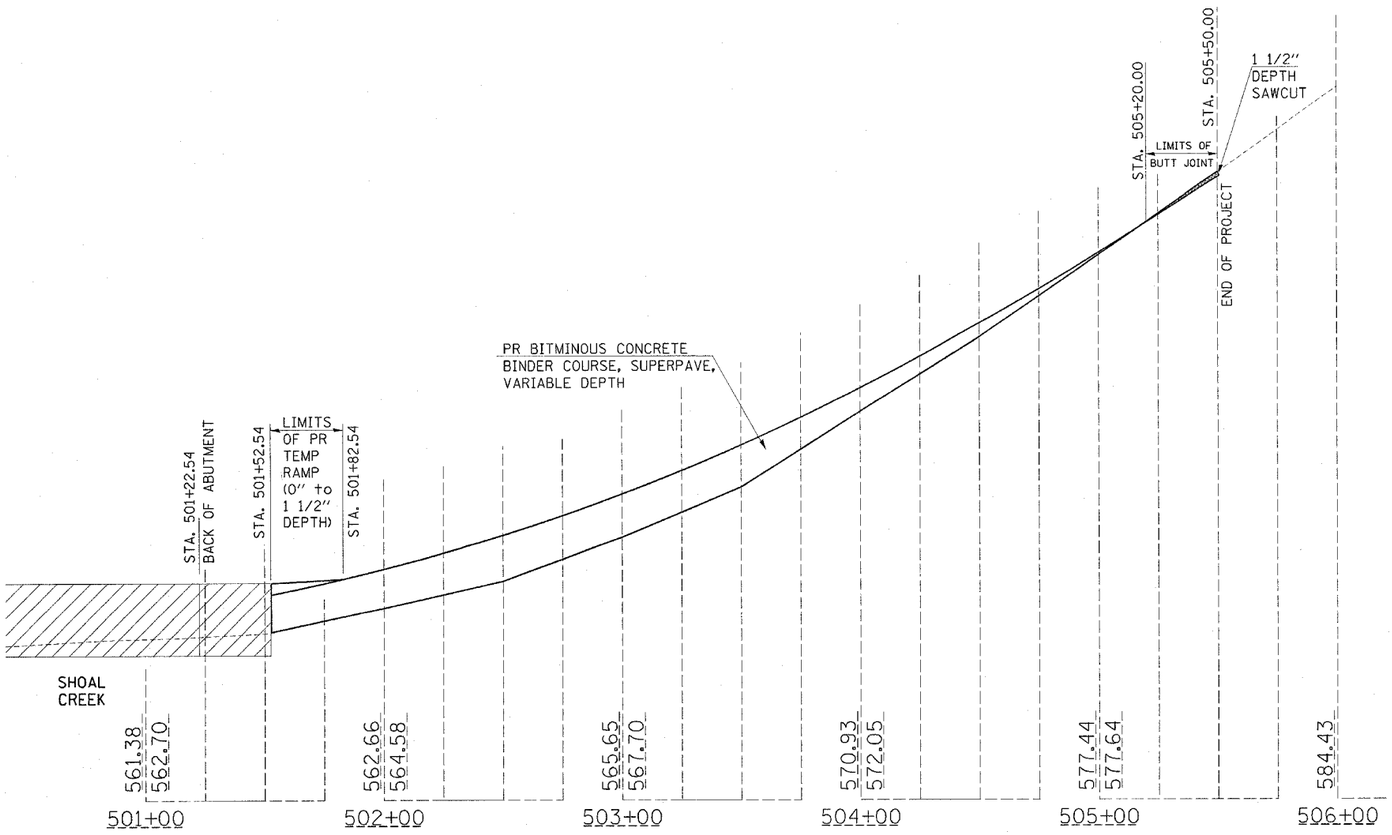
ILLINOIS DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS

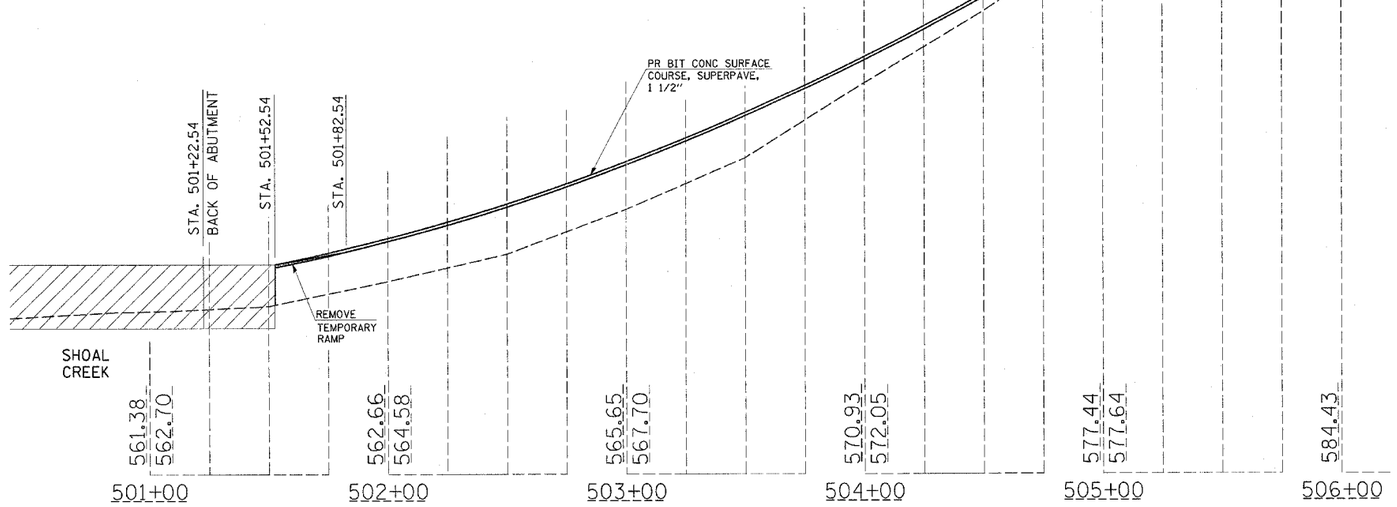
S.N. 068-0027
FAP 777 (IL 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

CONTRACT# 92667

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	84A
STA. _____	TO STA._____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



TRAFFIC CONTROL STAGES I & II RESURFACING



TRAFFIC CONTROL STAGES III, IV, & V RESURFACING

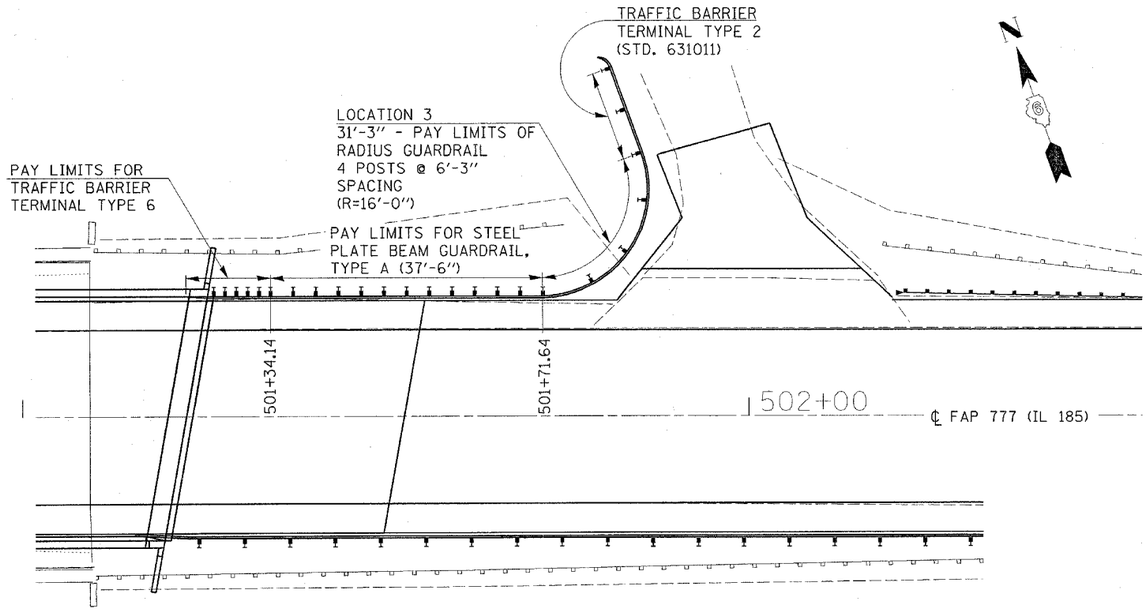
ILLINOIS DEPARTMENT OF TRANSPORTATION

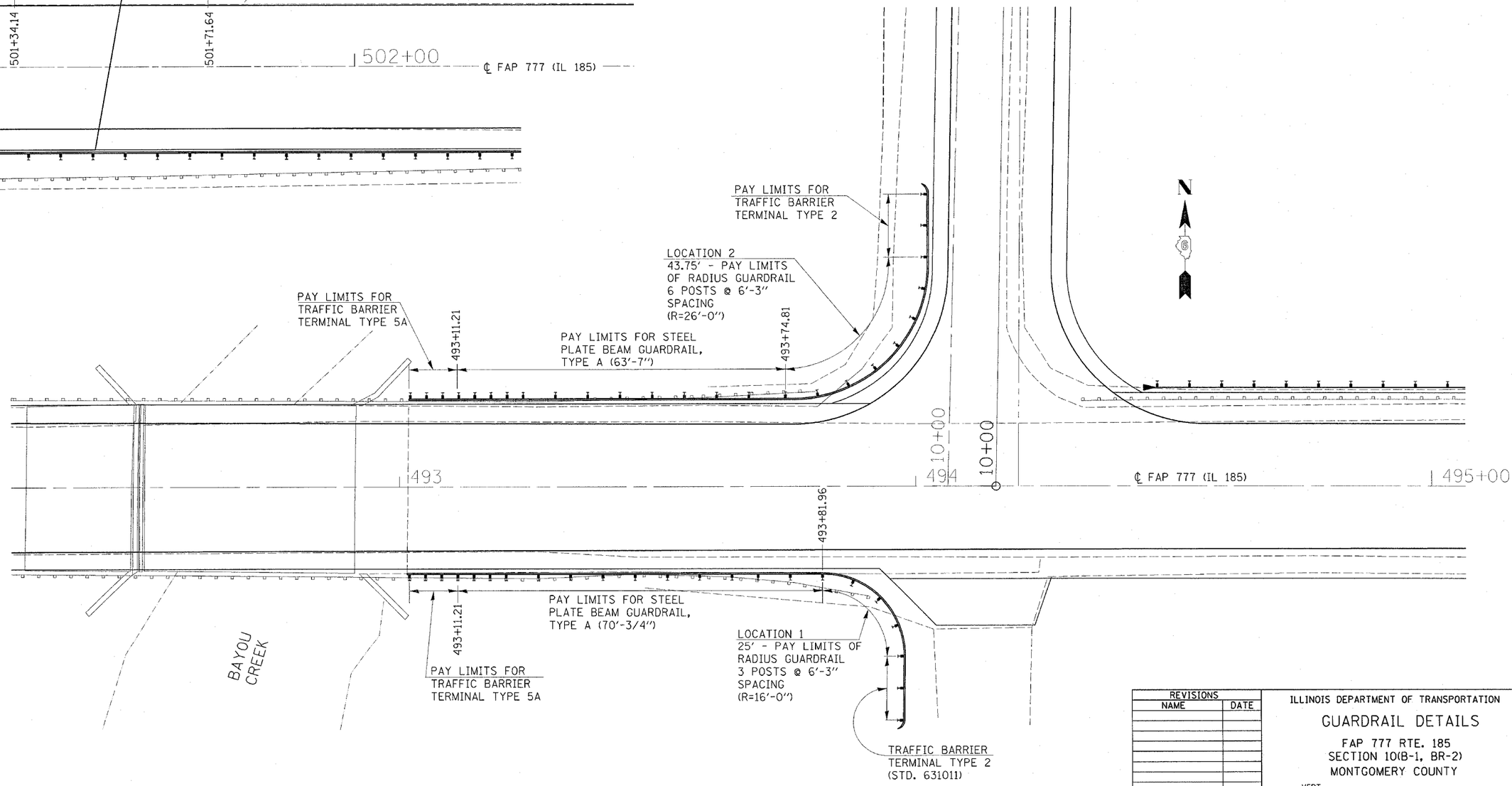
MISCELLANEOUS DETAILS

S.N. 068-0027
FAP 777 (IL 185)
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

CONTRACT NO. 92667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	85
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GUARDRAIL DETAILS

FAP 777 RTE. 185
SECTION 10(B-1, BR-2)
MONTGOMERY COUNTY

SCALE: VERT.
HORIZ.
DATE

DRAWN BY RTS
CHECKED BY

PLOT DATE = 1/23/2006
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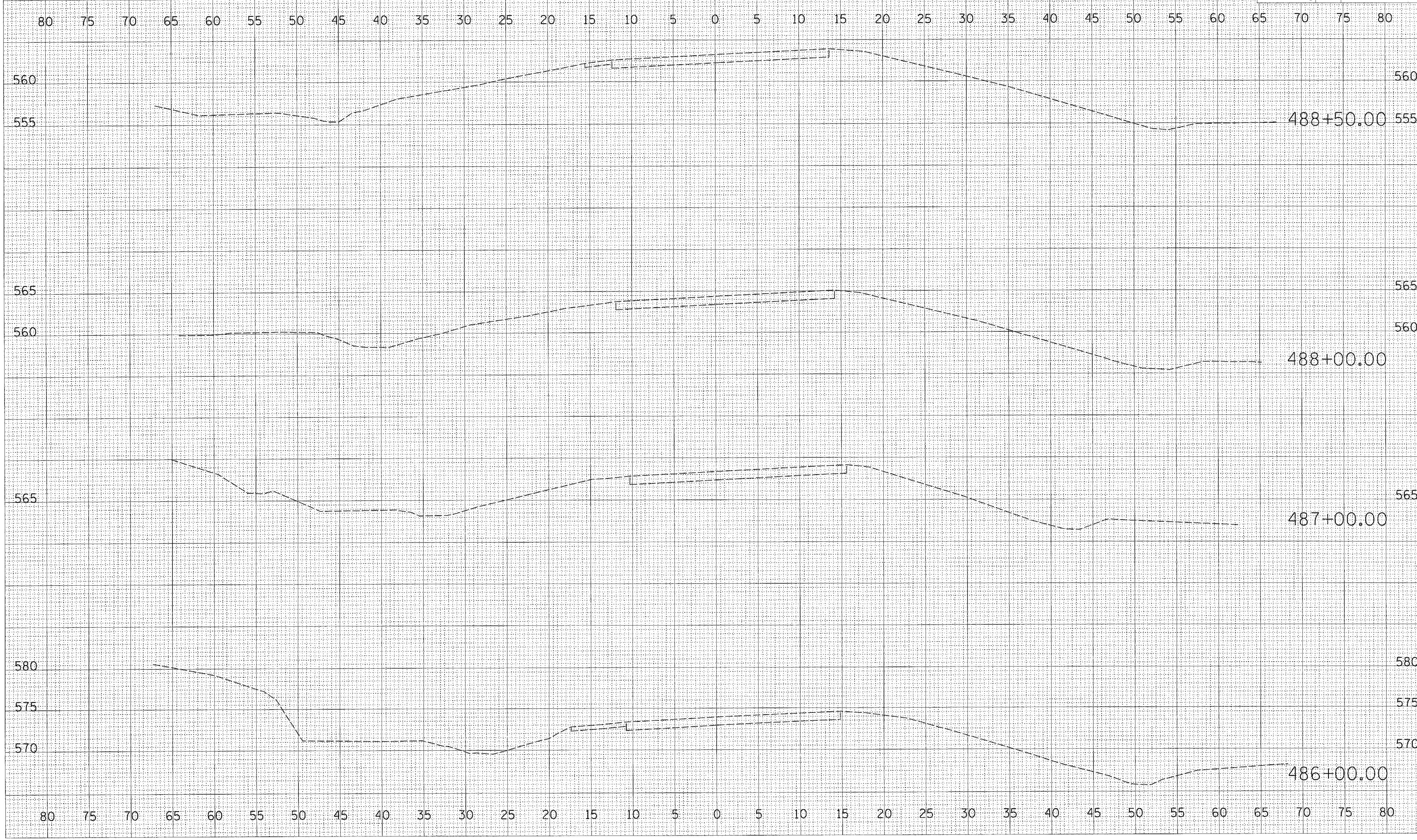
USER NAME = sloglert

CONTRACT NO. 92667

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1,BR-2)	MONTGOMERY	104	86

STA. 486+00.00 TO STA. 488+50.00

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



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

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

PLOT DATE = 1/10/2006
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USER NAME = slaglert

CONTRACT NO. 92667

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1,BR-2)	MONTGOMERY	104	87

STA. 489+00.00 TO STA. 491+00.00

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

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80

560
555

-4.00%

STAGE III:
EXCAVATION = 3.8
EMBANKMENT = 0.0

STAGE IV:
EXCAVATION = 3.2
EMBANKMENT = 2.1

491+00.00

-4.00%

STAGE III:
EXCAVATION = 3.4
EMBANKMENT = 0.0

STAGE IV:
EXCAVATION = 4.3
EMBANKMENT = 1.2

490+00.00

-4.00%

STAGE III:
EXCAVATION = 4.7
EMBANKMENT = 0.0

STAGE IV:
EXCAVATION = 4.0
EMBANKMENT = 1.2

489+00.00

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

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

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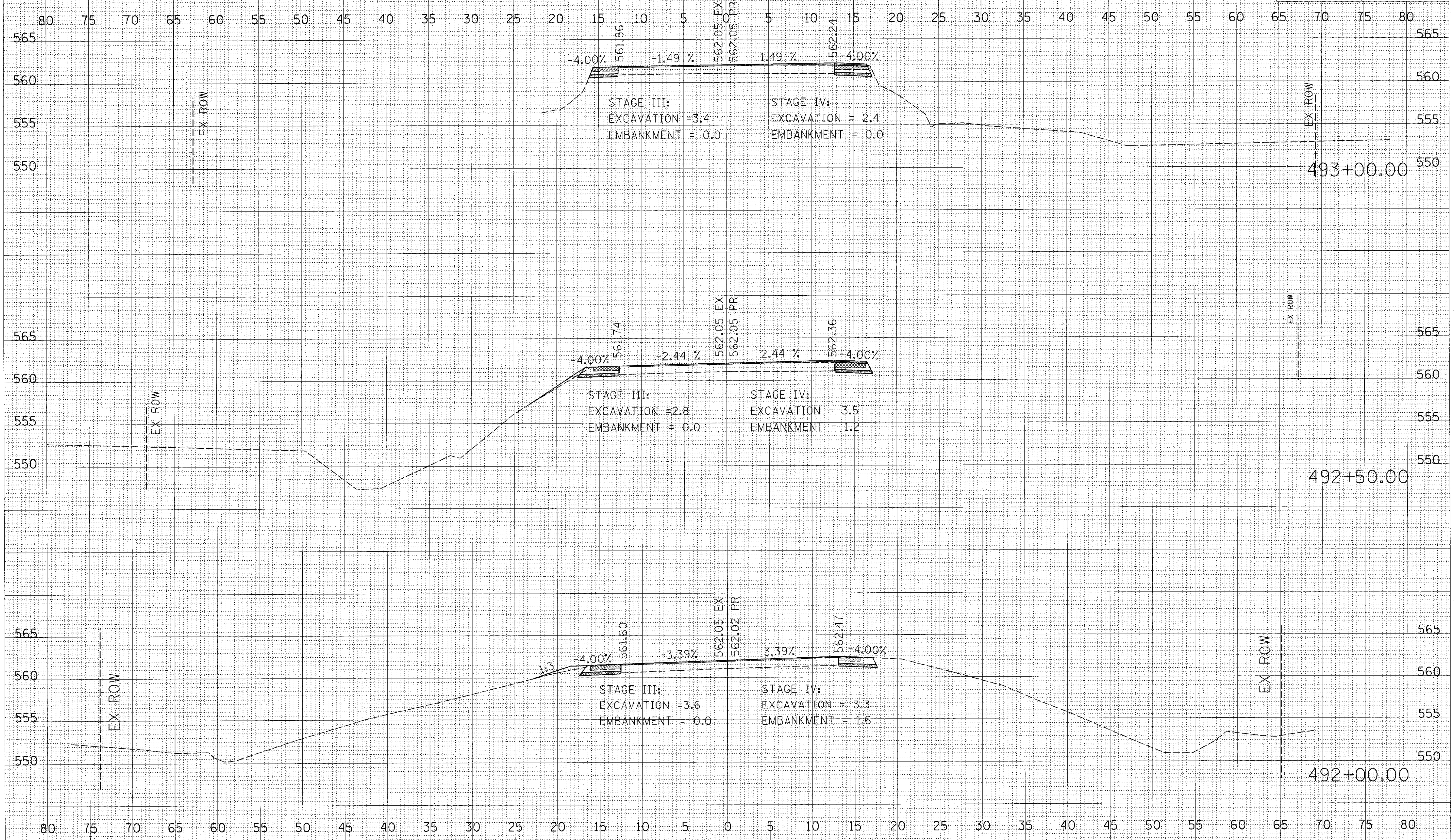
CONTRACT NO. 92667

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1,BR-2)	MONTGOMERY	104	88

STA. 492+00.00 TO STA. 493+00.00

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



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

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

PLOT DATE = 1/10/2006
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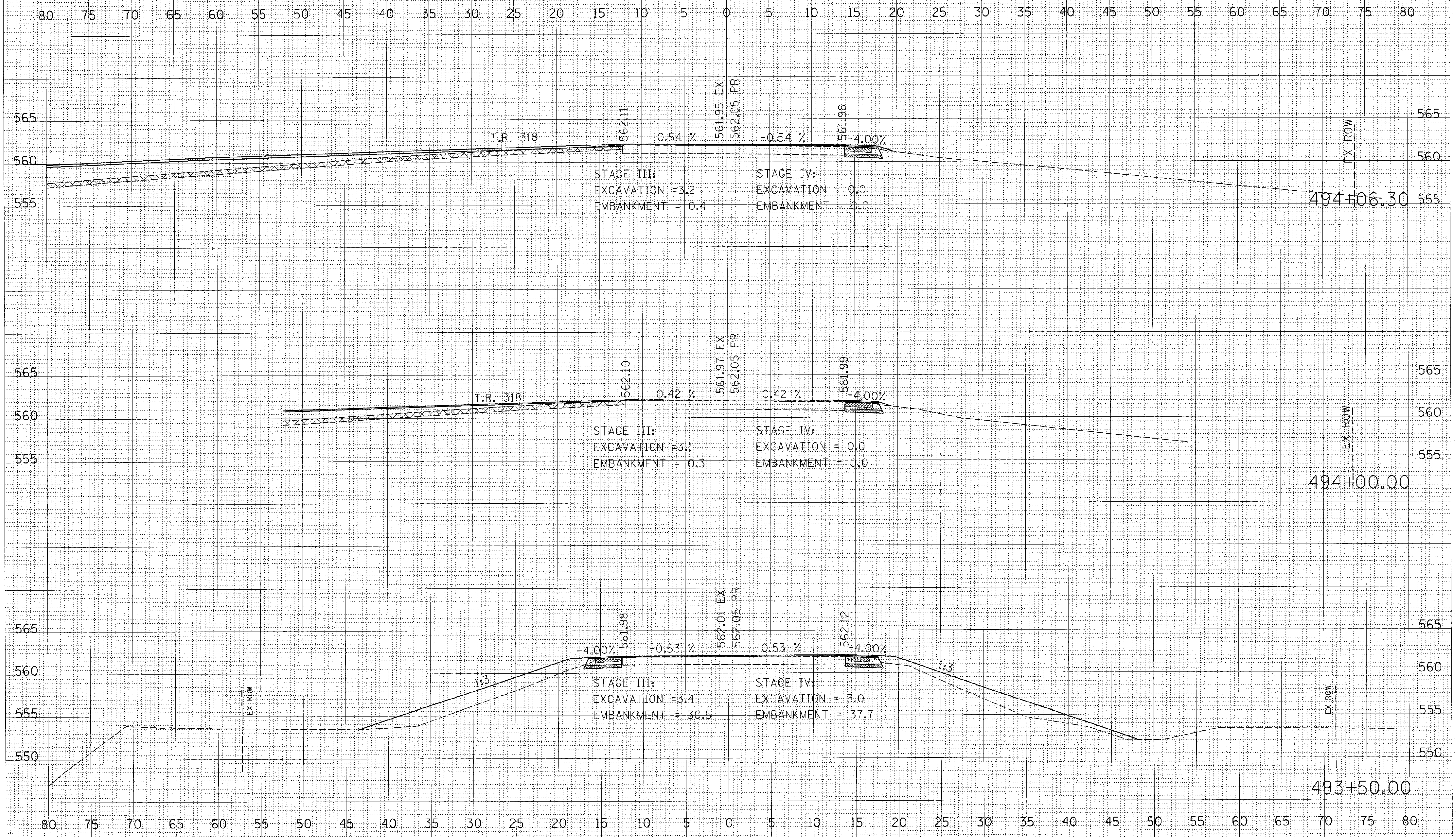
USER NAME = slagiert

CONTRACT NO. 92667

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1,BR-2)	MONTGOMERY	104	89

STA. 493+50.00 TO STA. 494+06.30

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



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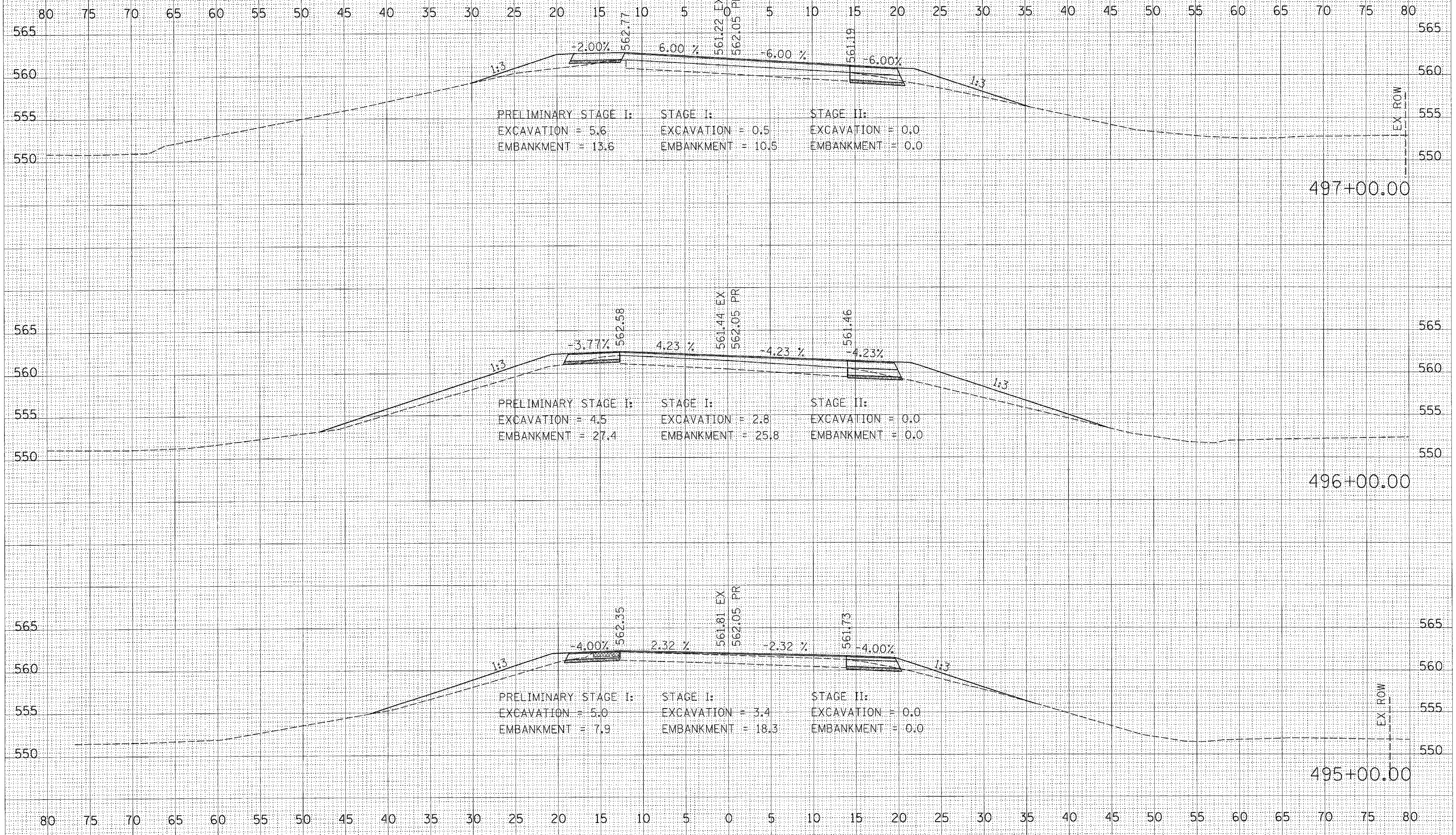
CONTRACT NO. 92667

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1,BR-2)	MONTGOMERY	104	90

STA. 495+00.00 TO STA. 497+00.00

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



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

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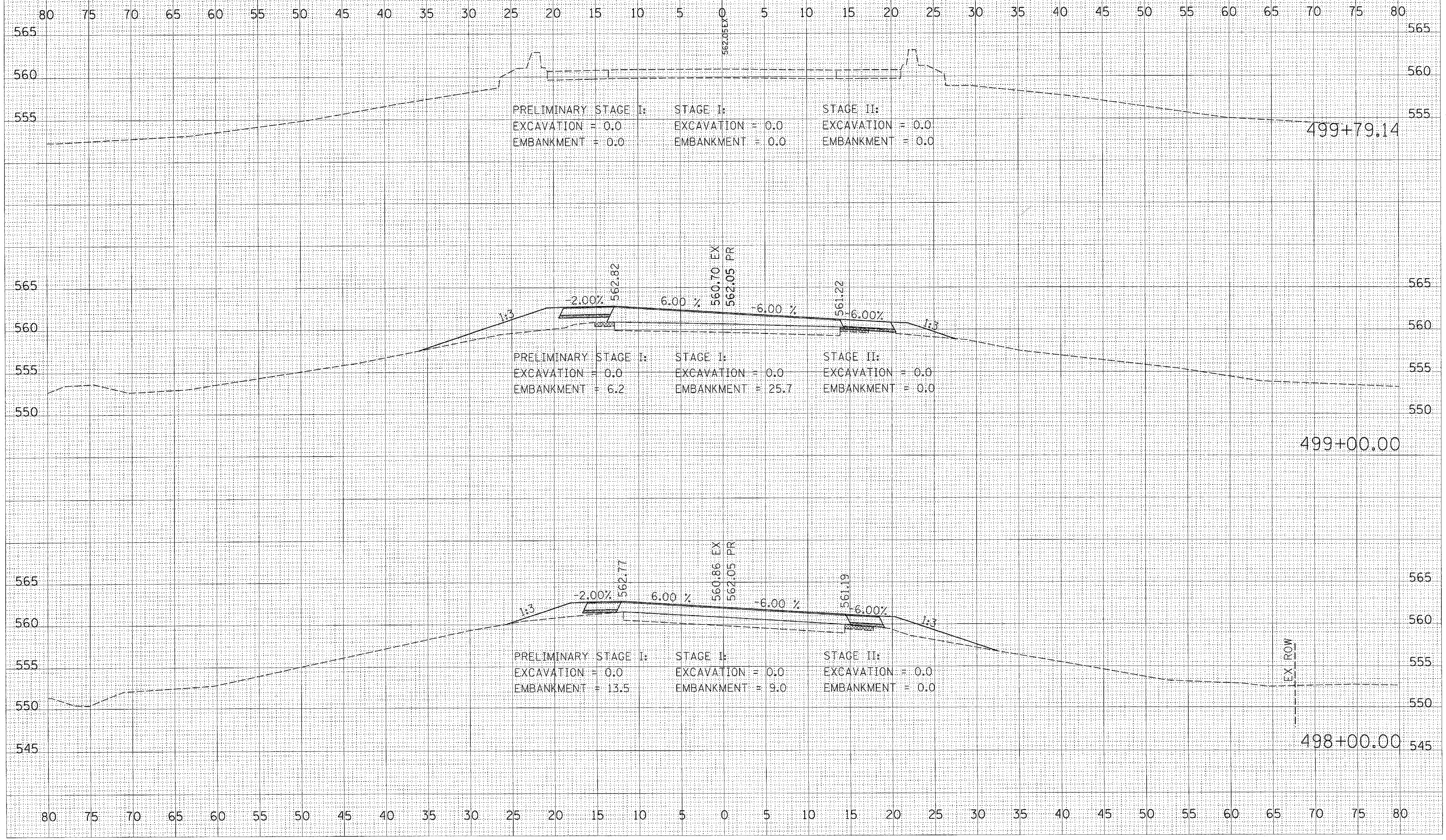
CONTRACT NO. 92667

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1,BR-2)	MONTGOMERY	104	91

STA. 498+00.00 TO STA. 499+79.14

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



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

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

PLOT DATE = 1/10/2006
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CONTRACT NO. 92667

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1,BR-2)	MONTGOMERY	104	92

STA. 500+04.60 TO STA. 500+84.05

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

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80

560
555

500+84.05

560
555
550
545

500+44.35

560
555
550

500+04.60

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80

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

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

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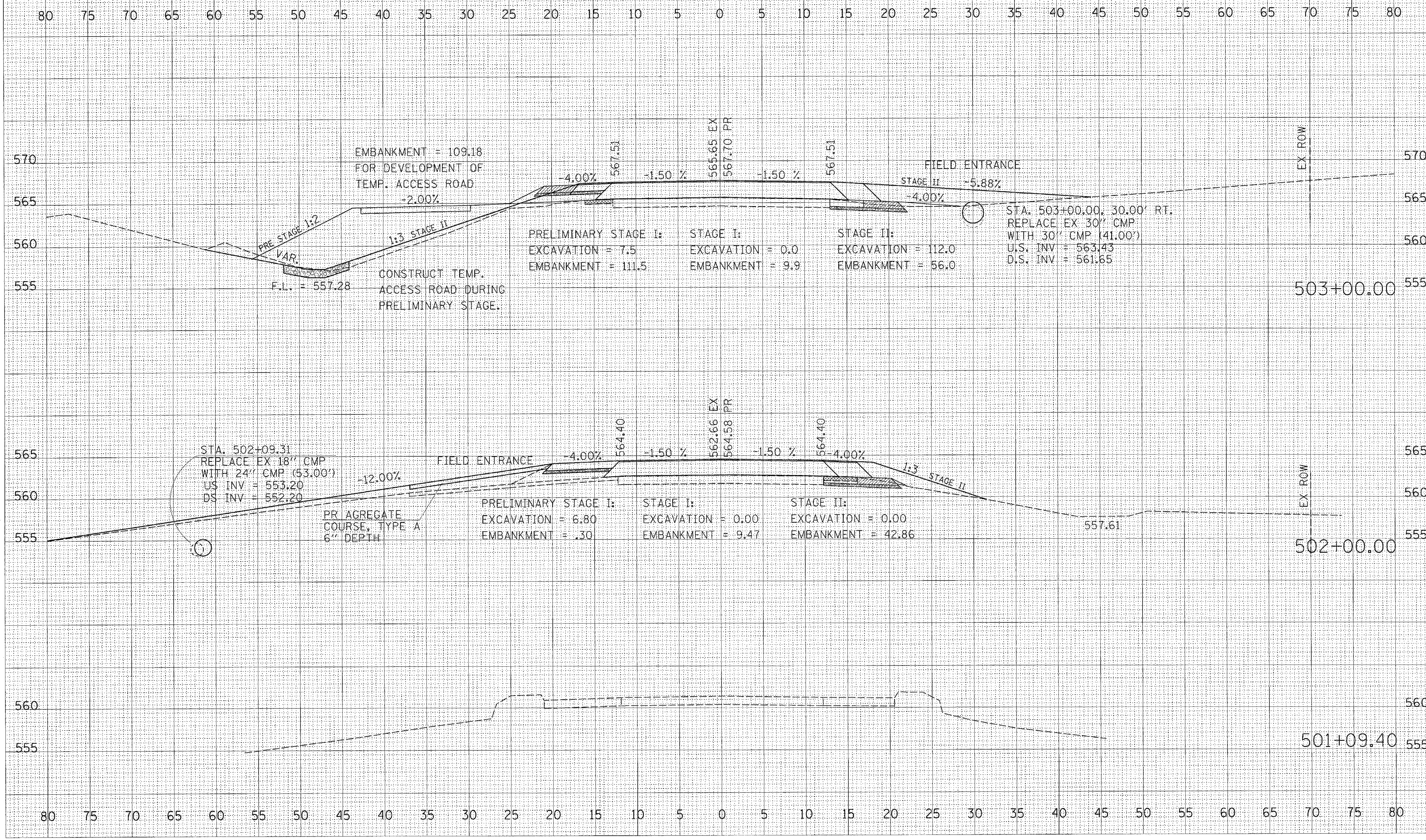
USER NAME = bloglors

CONTRACT NO. 92667

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1,BR-2)	MONTGOMERY	104	93

STA. 501+09.40 TO STA. 503+00.00

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



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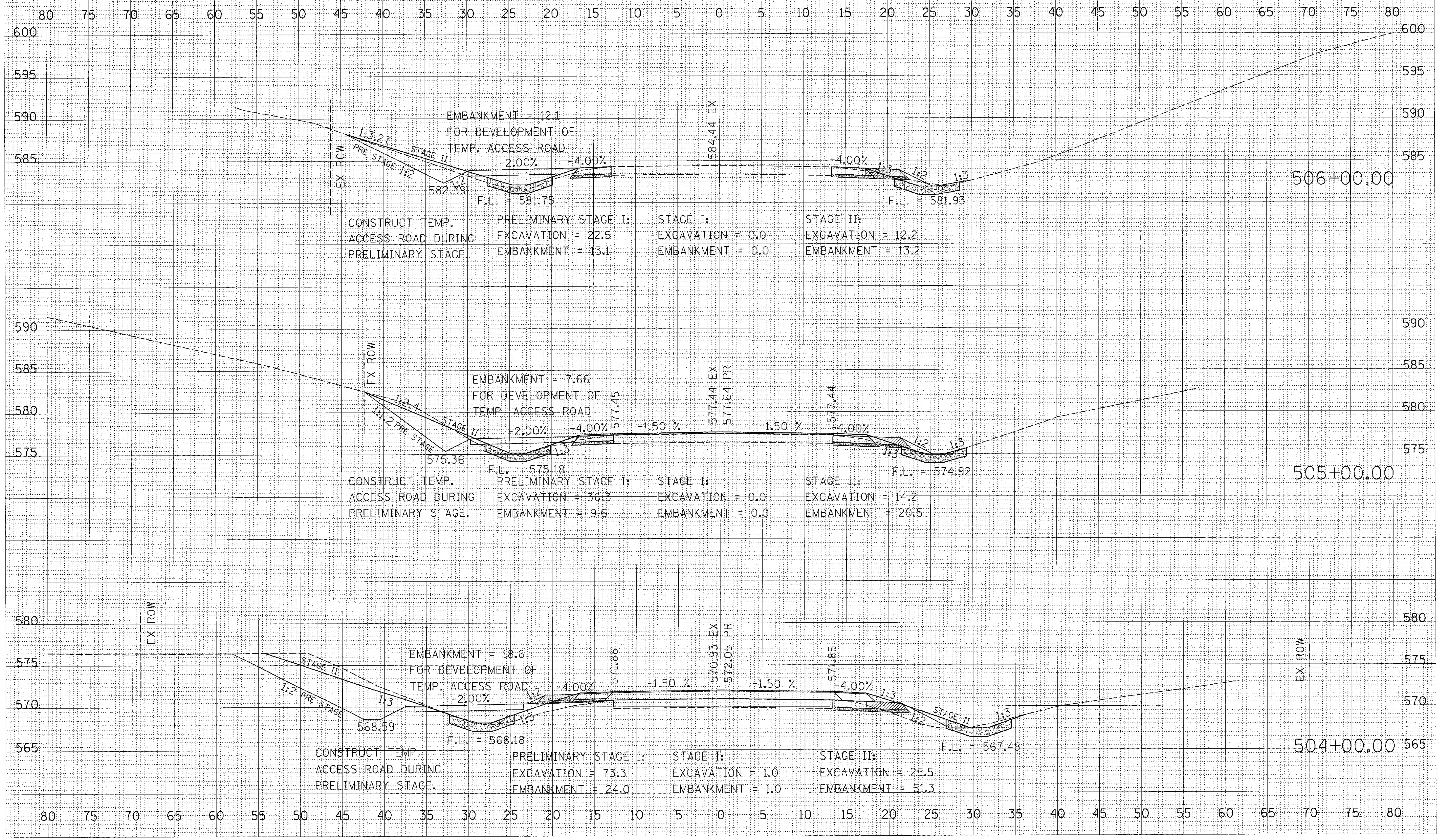
PLOT SCALE = 5.0000 ' / IN.
USER NAME = singlert

CONTRACT NO. 92667

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1,BR-2)	MONTGOMERY	104	94
STA. 504+00.00 TO STA. 506+00.00				
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



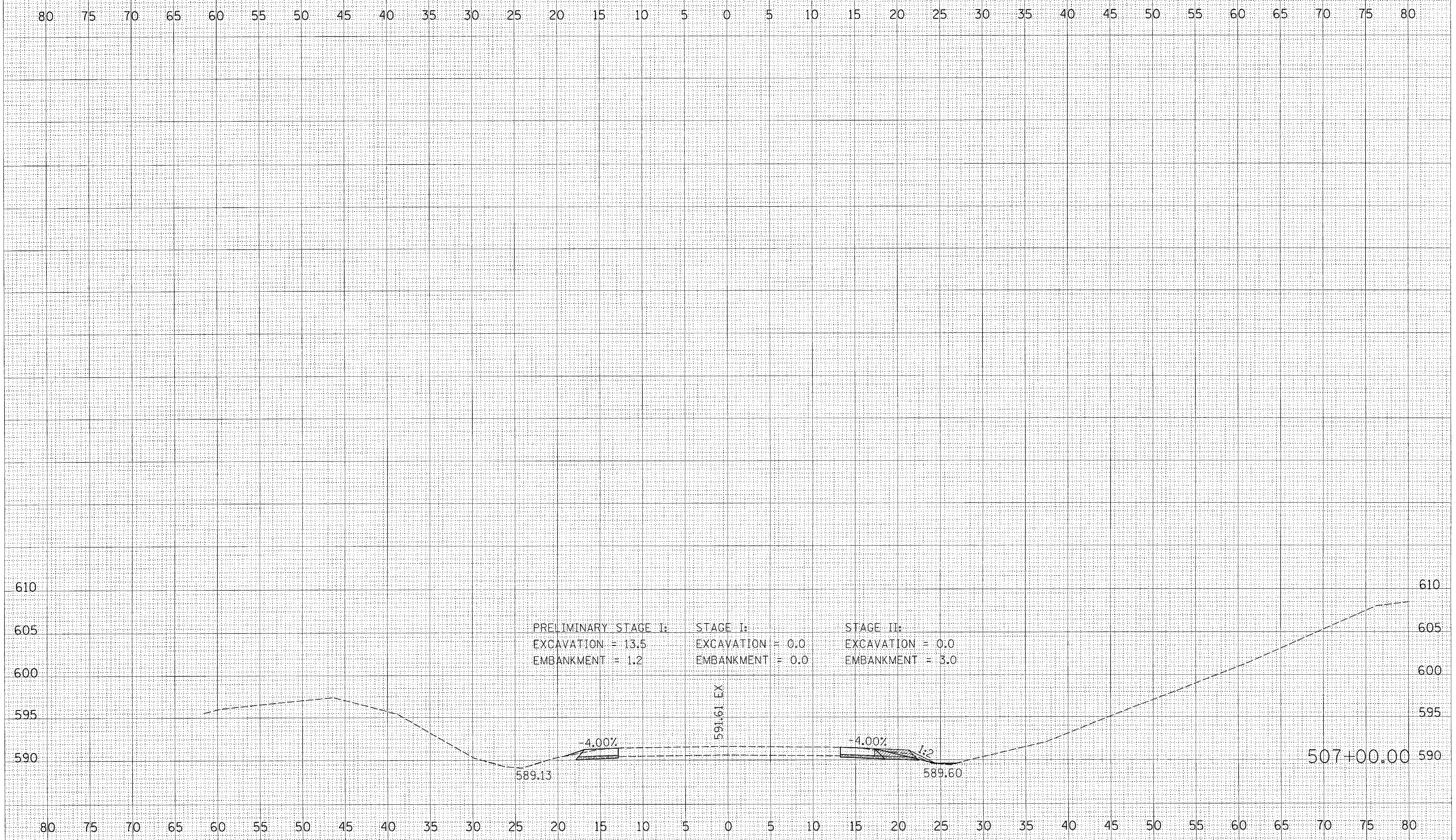
PLOT DATE = 1/10/2006
PLOT SCALE = 5.0000 '/ IN.

CONTRACT NO. 92667

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1,BR-2)	MONTGOMERY	104	95

STA. 507+00.00 TO STA. 507+00.00

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



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

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

PLOT DATE = 1/10/2006
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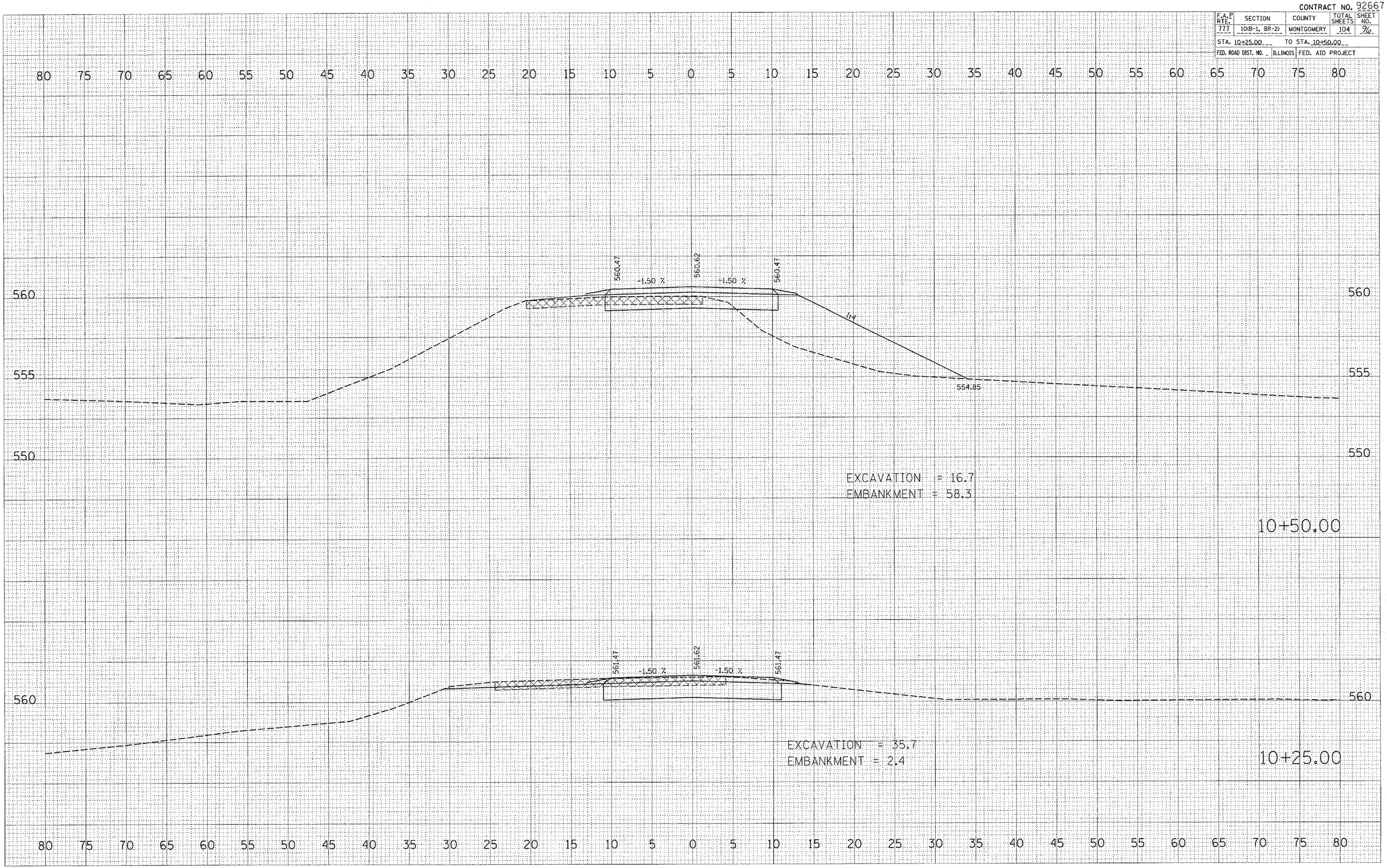
CONTRACT NO. 92667

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	96
STA. 10+25.00	TO STA. 10+50.00			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



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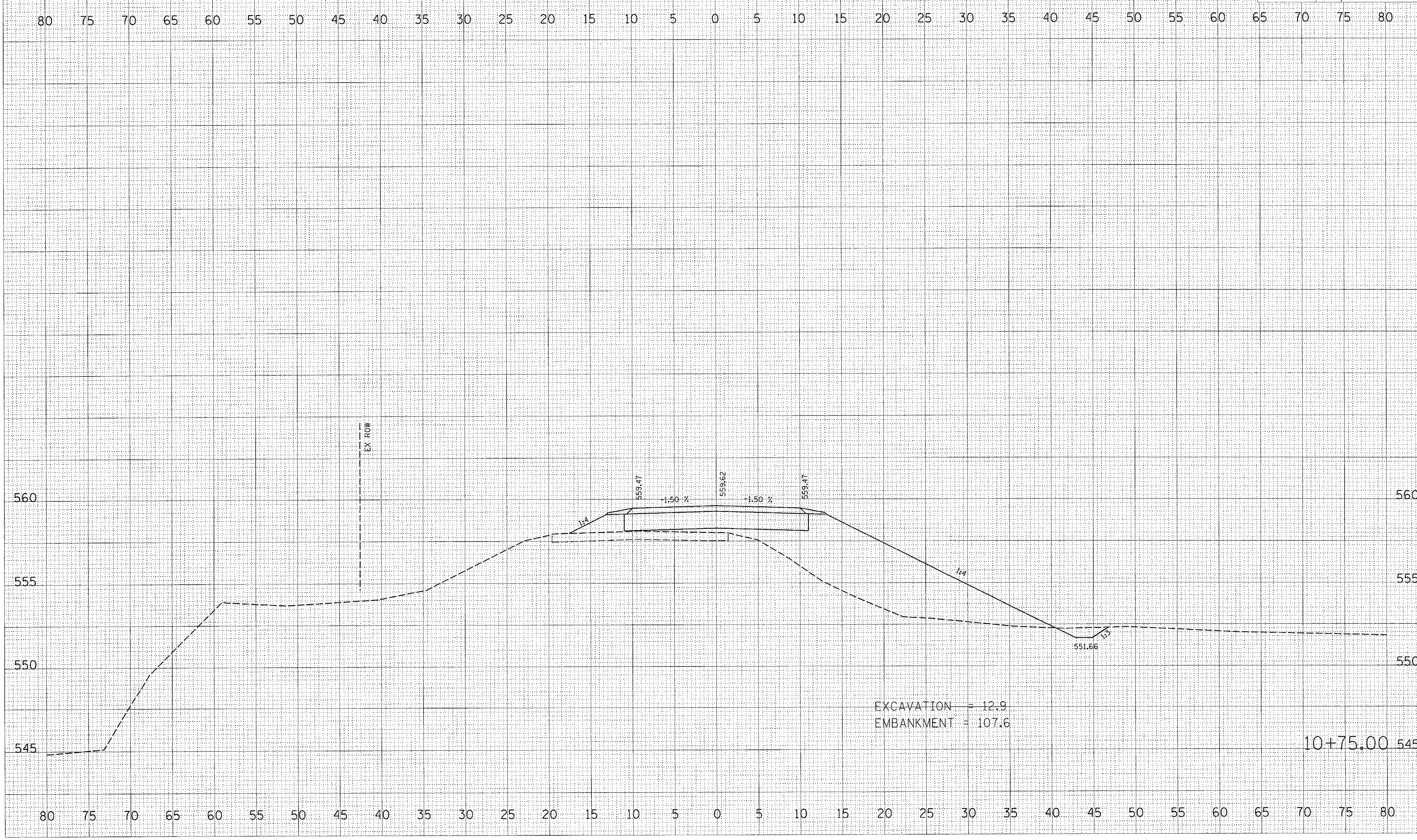
CONTRACT NO. 92667

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	97

STA. 10+75.00 TO STA. 10+75.00

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



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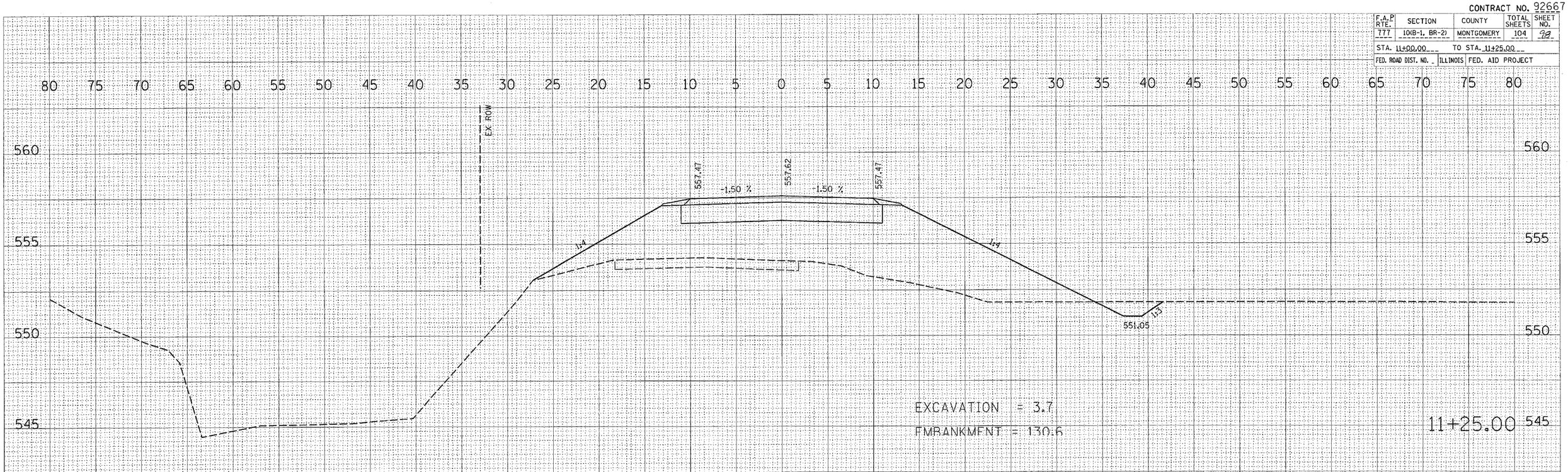
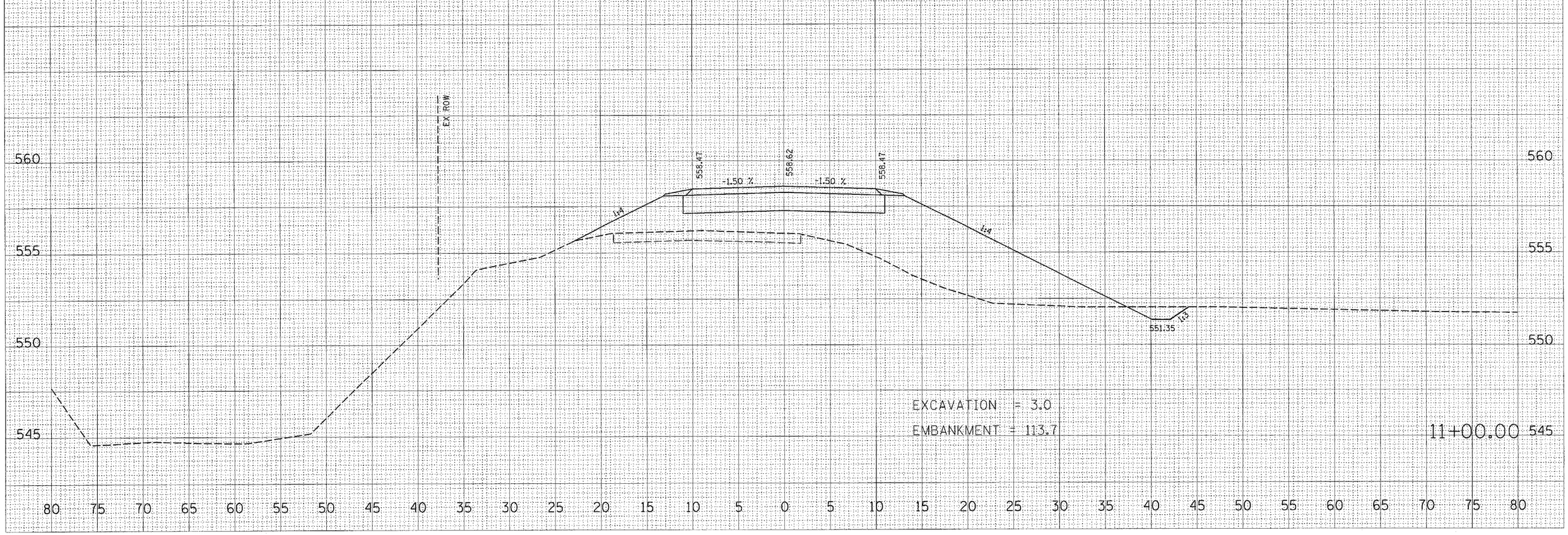
CONTRACT NO. 92667

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	98

STA. 11+00.00 TO STA. 11+25.00

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





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

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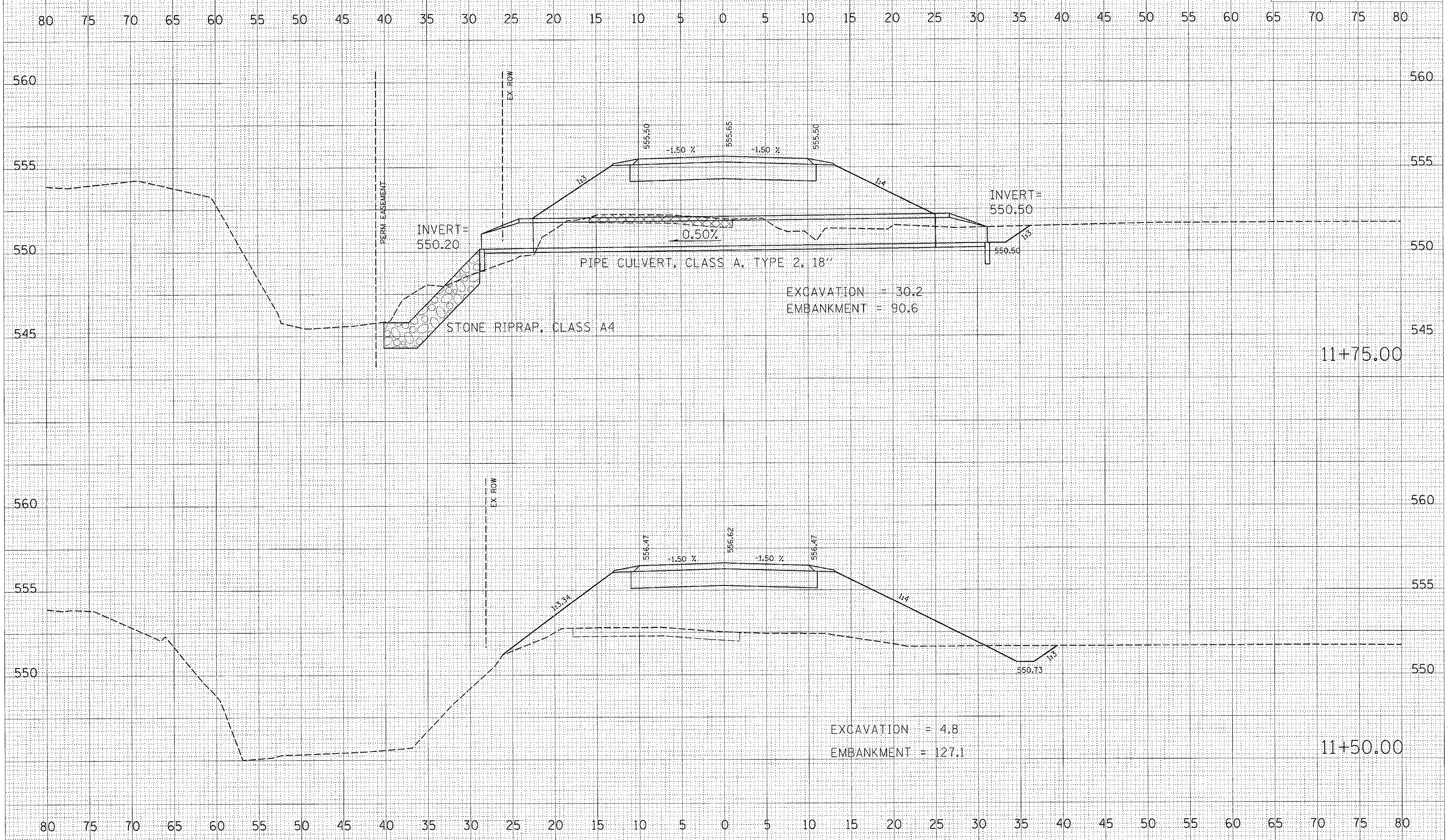
CONTRACT NO. 92667

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	99

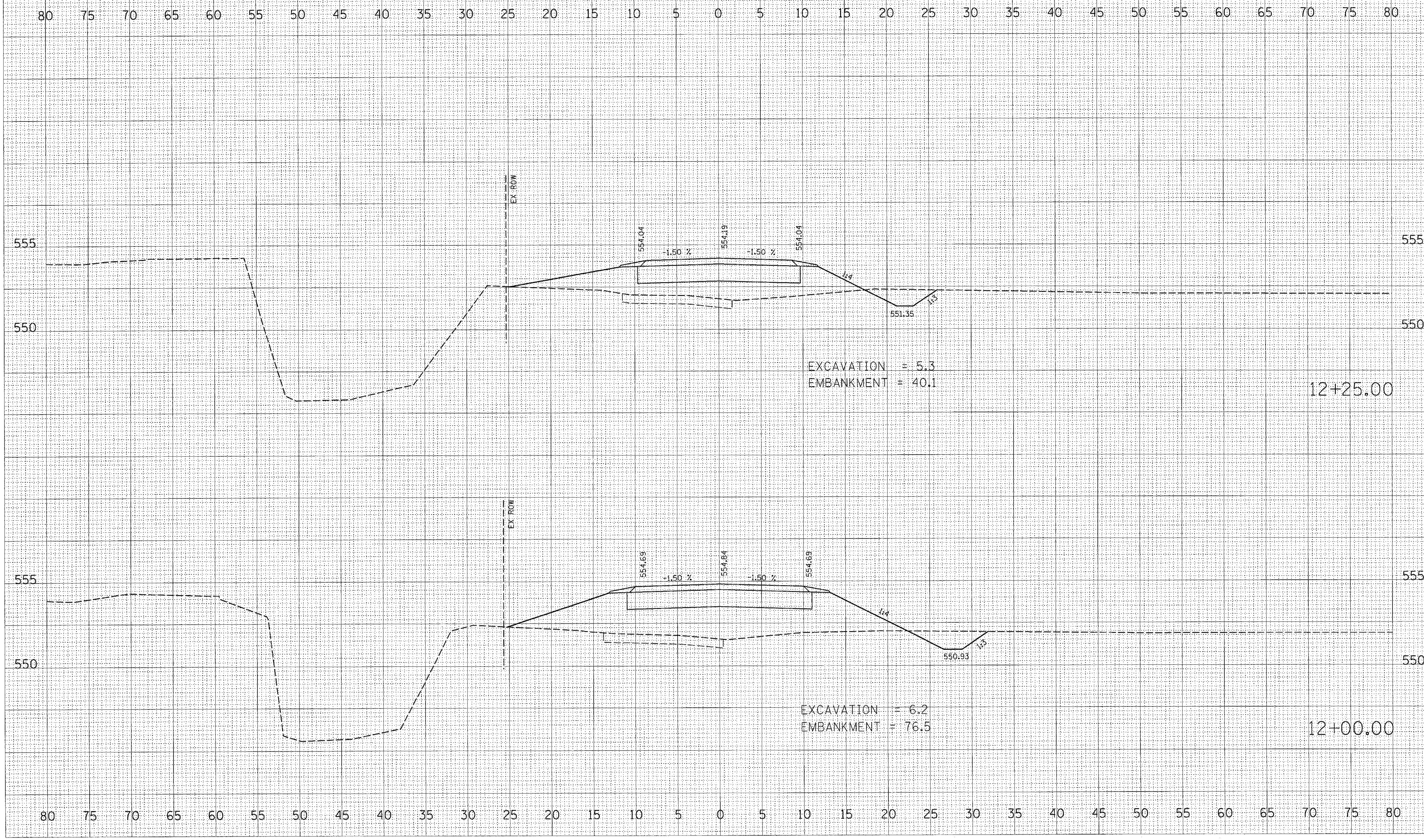
STA. 11+50.00 TO STA. 11+75.00

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



CONTRACT NO. 92667

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	100
STA. 12+00.00	TO STA. 12+25.00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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CONTRACT NO. 92667

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	101

STA. 12+50.00 TO STA. 12+75.00

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

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80

555

550

EX. ROW

553.22

-1.50 %

553.37

-1.50 %

553.22

-2.00 %

1:4

1:3

551.89

EX. ROW

EXCAVATION = 7.9
EMBANKMENT = 3.5

12+75.00

EX. ROW

553.55

-1.50 %

553.70

-1.50 %

553.55

1:4

1:3

551.78

EXCAVATION = 9.1
EMBANKMENT = 14.1

12+50.00

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

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

PLOT DATE = 1/10/2006
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CONTRACT NO. 92667

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	102

STA. 13+00.00 TO STA. 13+25.00

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

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80

555

550

EX ROW

553.05

553.20

553.05

-1.50 %

-1.50 %

-2.00 %

1:4

1:3

552.11

EX ROW

EXCAVATION = 22.5
EMBANKMENT = 0.0

13+25.00

555

550

EX ROW

553.05

553.20

553.05

-1.50 %

-1.50 %

-2.00 %

1:4

1:3

552.00

EX ROW

EXCAVATION = 13.6
EMBANKMENT = 0.6

13+00.00

555

550

80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80

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

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

PLOT DATE = 1/10/2006
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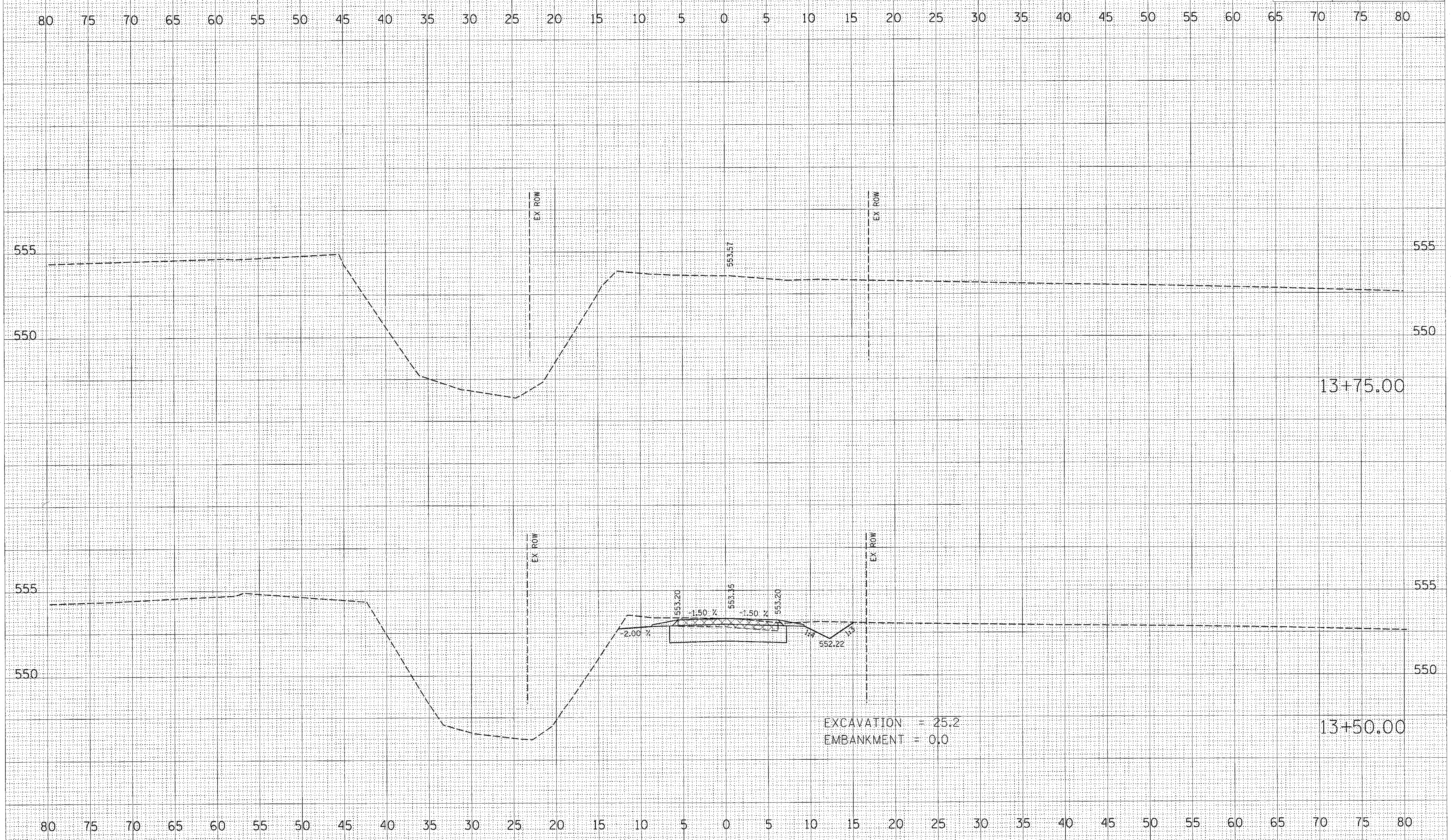
CONTRACT NO. 92667

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	103

STA. 13+50.00 TO STA. 13+75.00

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



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

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

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USER NAME = slaglert

CONTRACT NO. 92667

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
777	10(B-1, BR-2)	MONTGOMERY	104	104

STA. 14+00.00 TO STA. 14+50.00

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