

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	1

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

# PROPOSED HIGHWAY PLANS

FAP ROUTE 685 (IL 996)  
SECTION 113B-2  
PROJECT: ACBRF-0685 (026)  
HANCOCK COUNTY  
C-96-508-07

FOR INDEX OF SHEETS, SEE SHEET NO. 2

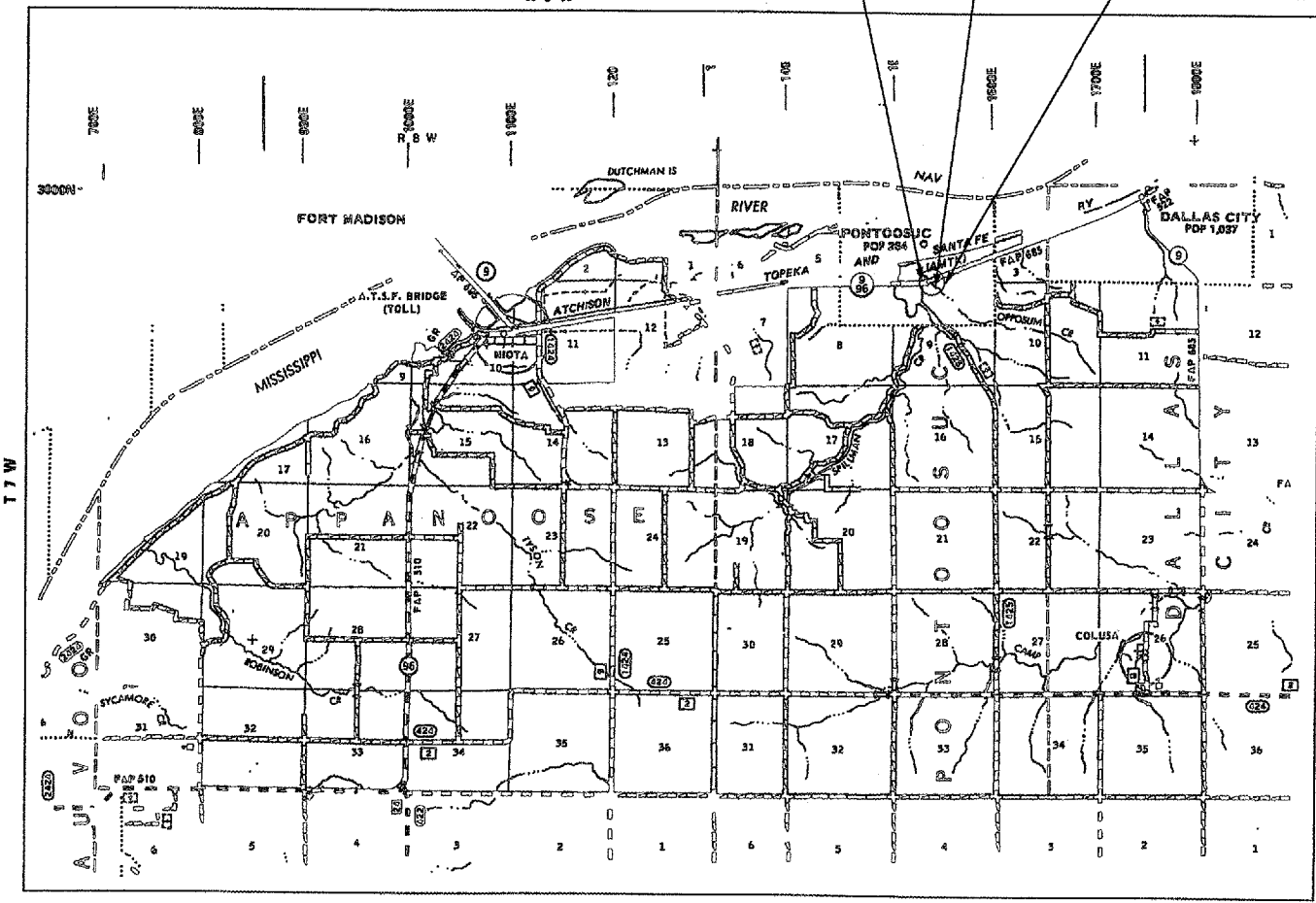
D-96-535-04



STRUCTURE NO. 034-2519  
STA. 248+59  
TRIPLE BARREL - 12'X6'  
BOX CULVERT (CAST IN PLACE)  
55.16' O. TO O. CULVERT  
IL 996 OVER OPPOSUM CREEK

BEGIN PROPOSED PROJECT  
STA 245+20

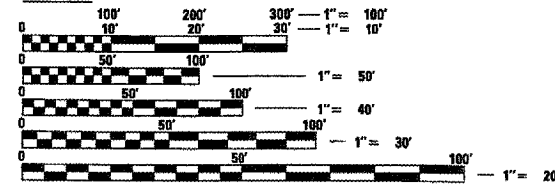
END PROPOSED PROJECT  
STA 252+50



**TRAFFIC DATA**

AVERAGE DAILY TRAFFIC = 2750 (2005)  
PU = 2400  
SU = 300  
MU = 50

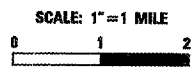
**SCALE**



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

**LOCATION MAP**



GROSS LENGTH = 730 FT. = 0.138 MI.  
NET LENGTH = 730 FT. = 0.138 MI.



Martin J. Silvester, P.E.  
LICENSE EXP. DATE 11-30-07

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED Aug 28, 2007  
Eric E. Harsh  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

October 12, 2007  
Eric E. Harsh  
INTERIM ENGINEER OF DESIGN AND ENVIRONMENT

October 12, 2007  
Milton R. Sisco, P.E.  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

SENIOR SQUAD LEADER: MARK DUST, P.E. 217-785-0597

PROJECT ENGINEER: JOHN NEGANGARD, P.E. 217-782-6990

CONTRACT NO. 72903

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	2
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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**ILLINOIS DOT HIGHWAY STANDARDS**

000001-04	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-01	AREAS OF REINFORCEMENT REBARS
001006	DECIMAL OF AN INCH AND A FOOT
280001-03	TEMPORARY EROSION CONTROL SYSTEMS
442201-01	CLASS C & D PATCHES
542301-01	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401	METAL END SECTIONS FOR PIPE CULVERTS
515001-02	NAME PLATE FOR BRIDGES
602406-02	MANHOLE, TYPE A, 1.8M (6') DIAMETER
604001-02	FRAME & LIDS, TYPE 1
630001-07	STEEL PLATE BEAM GUARDRAIL
630101-07	GUARDRAIL MOUNTED EXISTING CULVERTS
630301-04	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-01	REFLECTOR MARKER AND MOUNTING DETAILS
666001	RIGHT OF WAY MARKERS
701001-01	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 4.5m (15') AWAY
701006-02	OFF-RD OPERATIONS, 2L, 2W, 4.5m (15') TO 600mm (24") FROM PAVEMENT EDGE
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-02	LANE CLOSURE, 2L, 2W, DAY ONLY
701301-02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATION
701306-01	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 MPH
701311-02	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS DAY-ONLY
701321-08	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-02	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING FOR SPEEDS > 45 MPH
702001-06	TRAFFIC CONTROL DEVICES
704001-03	TEMPORARY CONCRETE BARRIER
780001-01	TYPICAL PAVEMENT MARKINGS
781001-02	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
886001	DETECTOR LOOP INSTALLATIONS
886006	TYPICAL LAYOUTS FOR DETECTION LOOPS

<b>DISTRICT SIX</b>	
EXAMINED	<u>August 15</u> 20 <u>07</u>
	<i>Joseph Haas</i>
OPERATIONS ENGINEER	
EXAMINED	<u>Aug 14</u> 20 <u>07</u>
	<i>W R</i>
PROGRAM IMPLEMENTATION ENGINEER	
EXAMINED	<u>Aug 28</u> 20 <u>07</u>
	<i>W R</i>
PROGRAM DEVELOPMENT ENGINEER	

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<b>INDEX OF SHEETS</b> <b>IL 9/96 OVER OPPOSUM CREEK</b> <b>FAP 685 SECTION 113B-2</b> <b>HANCOCK COUNTY</b>
SCALE	VERT. #DATE	DRAWN BY SJF
DATE	HORIZ. #DATE	CHECKED BY MJS

TUG PROJ. # 6183807-11  
 PLOT DATE = Aug-27-2007 11:08:00 AM  
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**The Upchurch Group**  
 HILLSIDE, IL. (708) 449-8821  
 MATTOON, IL. (217) 888-8177

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	3
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**GENERAL NOTES**

1. THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. SEEDING CLASS 2 SHALL BE USED.
2. FERTILIZER SHALL BE APPLIED TO ALL DISTURBED AREAS AND INCORPORATED INTO THE SEEDBED PRIOR TO SEEDING, OR PLACEMENT OF SOD AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS.
3. MULCH METHOD 2 SHALL BE APPLIED OVER ALL PERMANENT SEEDING AREAS.
4. SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET OR IN AN UNTILLABLE CONDITION. AREAS TO BE SEEDED SHALL BE DETERMINED BY THE ENGINEER.
5. ALL ELEVATIONS SHOWN IN THE PLANS ARE U.S.G.S. MEAN SEA LEVEL DATUM.
6. ANY REFERENCE TO THE STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT AS SHOWN IN THE PLANS.
7. THE THICKNESS OF HMA MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.
8. THE LOCATION OF THOSE BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.26 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 800-892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED, SEE SPECIAL PROVISIONS FOR STATUS OF UTILITIES, WITH UTILITY COMPANIES LISTED.
9. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH THE CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF RIGHT-OF-WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT BID PRICE FOR EARTH EXCAVATION. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
10. EXCAVATION IN FULTON STREET OR N CR-1350 TO BE PAID FOR AS EARTH EXCAVATION.

11. THE FOLLOWING APPLICATIONS RATES WERE USED FOR QUANTITY CALCULATIONS:  
 LEVELING BINDER 0.056 TON/SQ YD/IN  
 HMA SURF. CSE 0.056 TON/SQ YD/IN  
 HMA BINDER CSE 0.056 TON/SQ YD/IN  
 AGG. SHOULDERS TYPE A 2.05 TON/CU YD  
 AGG. SHOULDERS TYPE B 1.89 TON/CU YD  
 BIT. MATLS. (PRIME COAT) 0.00038 TON/SQ YD (PAVED BASES)  
 BIT. MATLS. (PRIME COAT) 0.001425 TON/SQ YD (AGG. BASE)  
 AGGREGATE (PRIME COAT) 0.0020 TON/SQ YD  
 AGG. LIMESTONE 2 TON/ACRE  
 NITROGEN FERT. 90 LBS/ACRE  
 PHOSPHORUS FERT. 90 LBS/ACRE  
 POTASSIUM FERT. 90 LBS/ACRE  
 TEMP EROS CONT SEEDING 100 LBS/ACRE  
 MULCH, METHOD 2 - 2 TON/ACRE  
 RIP RAP 1.5 TON/CU YD  
 ROCKFILL FOUNDATION = 1.89 TON/CU YD
12. BEFORE ORDERING STORM SEWER, PIPE CULVERTS, AND MANHOLES, THE CONTRACTOR SHALL CONTACT THE ENGINEER AS TO THE EXACT LENGTH AND QUANTITY REQUIRED.
13. NO PASSING ZONES SHALL BE FIELD VERIFIED BY OPERATIONS, (217) 785-5312, 14 DAYS PRIOR TO FINAL PAVEMENT MARKINGS.
14. 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 AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION IF THE ENGINEER DECIDES TO HAVE THE CONTRACTOR RESET THE MONUMENT. THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04.

15. THE CONTRACTOR SHALL PLACE A PERMANENT SURVEY MARKER, TYPE I IN THE CULVERT HEADWALL AS DIRECTED BY THE ENGINEER.
16. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
17. THE COST OF REMOVAL OF ANY EXISTING OBSTRUCTIONS OR CULVERTS WHICH INTERFERE WITH CONSTRUCTION WILL BE CONSIDERED INCLUDED IN THE COST OF EARTH EXCAVATION.
18. EXISTING PAVEMENT DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS, AND NOT OTHER WISE NECESSARY TO REPLACE, SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
19. THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
20. ALL REFERENCES TO HOT-MIX-ASPHALT CONCRETE SHALL BE INTERPRETED TO BE "HOT- MIX ASPHALT".
21. THE NEW NUMBER FOR THIS STRUCTURE SHALL BE 034-2519

**COMMITMENTS**

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

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE(S):	HMA SURFACE COURSE, MIX "C", N50	LEVELING BINDER, MACHINE METHOD, N50	HMA BASE COURSE WIDENING, 10"	HMA SHOULDERS	INCIDENTAL HMA SURFACING	HMA BASE COURSE, 10"
AC/PG:	PG 64-22	PG 64-22	PG 64-22	PG 58-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N DESIGN = 50	4.0% @ N DESIGN = 50	4.0% @ N DESIGN = 50	2.0% @ N DESIGN = 30	4.0% @ N DESIGN = 50	4.0% @ N DESIGN = 50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5 OR 12.5	IL 9.5	IL 19.0	BAM	IL 9.5 OR 12.5	IL 19.0
FRICTION AGGREGATE:	MIX C	N/A	N/A	N/A	MIX C	N/A

TUG PROJ. #6103007-11  
 PLOT DATE = Aug-27-2007 11:47:28 AM  
 FILE NAME = #FILE#

**The Upchurch Group**  
 HILLSIDE, IL. (708) 449-2821  
 MATTOON, IL. (217) 285-8177

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**GENERAL NOTES**  
 IL 9/96 OVER OPPOSUM CREEK  
 FAP 685 SECTION 113B-2  
 HANCOCK COUNTY  
 SCALE VERT. HORIZ. DATE DATE  
 DRAWN BY SJF  
 CHECKED BY MJS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	4
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY FAP 685 80% FED 20% STATE 1000-2A	STRUCTURE SN 034-2519 80% FED 20% STATE X028-2A
20100500	TREE REMOVAL, ACRES	ACRE	1.5	1.5	
20200100	EARTH EXCAVATION	CU YD	2175	2175	
20800150	TRENCH BACKFILL	CU YD	43	43	
25000200	SEEDING, CLASS 2	ACRE	1.25	1.25	
25000400	NITROGEN FERTILIZER NUTRIENT	<i>POUND</i>	113	113	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	<i>POUND</i>	113	113	
25000600	POTASSIUM FERTILIZER NUTRIENT	<i>POUND</i>	113	113	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	2.5	2.5	
25100115	MULCH, METHOD 2	ACRE	1.25	1.25	
25101005	HEAVY DUTY EXCELSIOR BLANKET	SO YD	402	402	
28000250	TEMPORARY EROSION CONTROL SEEDING	<i>POUND</i>	125	125	
28000400	PERIMETER EROSION BARRIER	FOOT	1600	1600	
28000500	INLET AND PIPE PROTECTION	EACH	4	4	
28001000	AGGREGATE (EROSION CONTROL)	TON	150	150	
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	<i>946</i>	<i>946</i>	
28200200	FILTER FABRIC	SO YD	1420	1420	
35101400	AGGREGATE BASE COURSE, TYPE B	TON	89	89	
35501324	HOT-MIX ASPHALT BASE COURSE, 10"	SO YD	1140	1140	
35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	SO YD	100	100	
35800100	PREPARATION OF BASE	SO YD	484	484	
35800200	AGGREGATE BASE REPAIR	TON	122	122	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	2.6	2.6	
40600300	AGGREGATE (PRIME COAT)	TON	1	1	
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	67	67	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**SUMMARY OF QUANTITIES**  
 IL 9/96 OVER OPPOSUM CREEK  
 FAP 685 SECTION 113B-2  
 HANCOCK COUNTY  
 SCALE \_\_\_\_\_ DRAWN BY GEW  
 DATE #DATE \_\_\_\_\_ CHECKED BY MJS

TJD PROJ. #103307-11  
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**The Upchurch Group**  
 HILLSIDE, IL (708) 440-2451  
 MAITPOON, IL (217) 226-9177

*Rev.*

CONTRACT NO. 72903				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	5
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY FAP 685 80% FED 20% STATE 1000-2A	STRUCTURE SN 034-2519 80% FED 20% STATE X028-2A
40600982	HOT-MIX ASPHALT SURFACE REMOVAL -- BUTT JOINT	SO YD	148	148	
40600990	TEMPORARY RAMP	SO YD	26	26	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	150	150	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	93	93	
44000100	PAVEMENT REMOVAL	SO YD	203	203	
44200148	PAVEMENT PATCHING, TYPE III, 12 INCH	SO YD	42	42	
48101300	AGGREGATE SHOULDERS, TYPE B (SPECIAL)	TON	79	79	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	122	122	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50105210	REMOVE EXISTING CULVERTS	FOOT	36	36	
50105220	PIPE CULVERT REMOVAL	FOOT	46	46	
50800105	REINFORCEMENT BARS	POUND	94810		94810
50800515	BAR SPLICERS	EACH	160		160
51500100	NAME PLATES	EACH	1		1
54003000	CONCRETE BOX CULVERTS	CU YD	301.2		301.2
54200451	PIPE CULVERTS, TYPE I RCCP 36"	FOOT	151	151	
54201480	PIPE CULVERTS, TYPE 2, CORRUGATED STEEL OR ALUMINUM CULVERT PIPE 15"	FOOT	100	100	
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	3	3	
* 63000000	STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	500	500	
* 63000025	STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES	FOOT	125	125	
* 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	466	466	
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	7	7	
66700205	PERMANENT SURVEY MARKERS, TYPE 1	EACH	1	1	

\*SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**SUMMARY OF QUANTITIES**  
IL 9/96 OVER OPPOSUM CREEK  
FAP 685 SECTION 113B-2  
HANCOCK COUNTY

SCALE \_\_\_\_\_ DATE \_\_\_\_\_ DRAWN BY CEW  
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**The Upchurch Group**  
HILLSDALE, IL 60931-440-2231  
MATTSON, IL 62170-240-5177

CONTRACT NO. 72903				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	6
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	CONSTRUCTION CODE
				ROADWAY FAP 685 80% FED 20% STATE 1000-2A	STRUCTURE SN 034-2519 80% FED 20% STATE X028-2A
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3	
67100100	MOBILIZATION	LSUM	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	LSUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	LSUM	1	1	
70101205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	10	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	133	133	
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	2170	2170	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	45	45	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	330	330	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	320	320	
* 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	2170	2170	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	12	12	
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	12	12	
* 78201000	TERMINAL MARKERS - DIRECT APPLIED	EACH	4	4	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	482	482	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	10	10	
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	565		565
X0324118	GRANULAR CULVERT BACKFILL	CU YD	630		630
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1	
XX172700	MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**SUMMARY OF QUANTITIES  
IL 9/96 OVER OPPOSUM CREEK  
FAP 685 SECTION 113B-2  
HANCOCK COUNTY**

SCALE \_\_\_\_\_ DRAWN BY GEW  
DATE #DATE \_\_\_\_\_ CHECKED BY MJS

*\*SPECIALTY ITEMS*

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**The Upchurch Group**  
HILLSDALE, IL (708) 448-2321  
MATTPOON, IL (217) 234-5177

CONTRACT NO. 72903				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES					
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	CONSTRUCTION CODE
				ROADWAY FAP 685 80% FED 20% STATE 1000-2A	STRUCTURE SN 034-2519 80% FED 20% STATE X028-2A
Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	
Z0030330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
* Z0054517	ROCK FILL - FOUNDATION	TON	525		525

TUG PROJ: 608387-11  
 PLOT DATE: Aug-27-2007 10:42:03am  
 FILE NAME:

**The Upchurch Group**  
 HILLSIDE, IL (708) 449-2321  
 MATTOON, IL (217) 286-3177

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SUMMARY OF QUANTITIES  
 IL 9/96 OVER OPPOSUM CREEK  
 FAP 685 SECTION 113B-2  
 HANCOCK COUNTY  
 SCALE: \_\_\_\_\_ DRAWN BY: GEW  
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\*SPECIALTY ITEMS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	8
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**54200451**  
**PIPE CULVERTS, TYPE I RCCP 36"**

UPSTREAM STATION	UPSTREAM OFFSET	DOWNSTREAM STATION	DOWNSTREAM OFFSET	LENGTH (FEET)	TYPE	SIZE (IN)
245+83.15	30.93' RT	246+13.07	36.23' RT	30	1	36
246+12.17	60.89' RT	246+13.07	36.23' RT	25	1	36
246+13.07	36.23' RT	246+34.89	59.29' LT	96	1	36
				TOTAL LENGTH:	151'	

**EARTHWORK AND SEEDING SCHEDULE**

STA	TO STA	EARTH EXCAVATION CU. YD	EARTH EXCAVATION ADJUSTED FOR SHINKAGE CU. YD	EMBANKMENT CU. YD	FURNISHED EXCAVATION OR WASTE (-) CU. YD	SEEDING CLASS 2 ACRE	NITROGEN FERTILIZER POUND	PHOSPHORUS FERTILIZER POUND	POTASSIUM FERTILIZER POUND	AGRICULTURAL GROUND LIMESTONE TON	MULCH METHOD 2 ACRE	
IL ROUTE 9 / 96	245+20	252+50	2,165	1,624	702	-1,460	1.25	113	113	113	2.5	1.25
FULTON ST	10+00	10+60	0	0	9	9						
N CR-1350	20+00	20+70	10	7	13	4						
<b>TOTAL:</b>			2,175	1,631	724	-907	1.25	113	113	113	2.5	1.25

**54201480**  
**CULVERT SCHEDULE**

UPSTREAM STATION	UPSTREAM OFFSET	DOWNSTREAM STATION	DOWNSTREAM OFFSET	LENGTH (FEET)	TYPE	SIZE (IN)
251+95	32.0' RT	251+45.0	32.0' RT	50.0	2	15
252+25	33.0' LT	251+75.0	33.0' LT	50.0	2	15
				TOTAL LENGTH:	100'	

**28000500**

**INLET & PIPE PROTECTION SCHEDULE**

STATION	OFFSET	EACH
245+83.15	30.93' RT	1
246+12.17	60.89' RT	1
252+00.00	32.00' RT	1
252+30.00	33.00' LT	1
		TOTAL : 4

**63200310**

**GUARDRAIL REMOVAL**

STATION	TO	STATION	LENGTH
247+46.0	LT	249+86.0	LT 240.0'
247+31.6	RT	249+58.0	RT 226.0'
		TOTAL LENGTH:	466'

**78200410**

**GUARDRAIL MARKERS, TYPE A**

STATION	TO	STATION	EACH
246+71.5	RT	250+84.0	RT 6
246+96.5	LT	251+09.0	LT 6
		TOTAL :	12

**XX172700**

**MANHOLE SCHEDULE**

STATION	OFFSET	STRUCTURE TYPE	CASTING	EACH
246+13.07	36.23' RT	MANHOLES, TYPE A, 8' DIAMETER	TYPE 1 FRAME, CLOSED LID (SEE STD. 604001)	1
				TOTAL : 1

**54213681**

**PRECAST REINFORCED CONCRETE FLARED END SECTION SCHEDULE - 36"**

STATION	OFFSET	SIZE (IN)	EACH
245+83.15	30.93' RT	36	1
246+12.17	60.89' RT	36	1
246+34.89	59.29' LT	36	1
			TOTAL : 3

**28000100**

**AGGREGATE (EROSION CONTROL) SCHEDULE**

STATION	OFFSET
247+59.70	43.1' LT
247+89.30	69.5' LT
248+32.90	47.3' RT
248+59.40	56.8' RT
248+71.40	57.3' LT
248+91.20	49.9' LT
249+70.10	55.5' RT
249+94.00	50.8' RT

TOTAL : 150 TON

**63000000**

**STEEL PLATE BEAM GUARDRAIL TYPE A**

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
247+21.5	19.0' RT		248+46.5	19.0' RT	125'
249+09.0	19.2' RT		250+34.0	19.0' RT	125'
247+46.5	19.2' LT		248+09.0	19.0' LT	62.5'
248+71.5	18.8' LT		250+59.0	19.0' LT	187.5'
					TOTAL LENGTH: 500'

**63000025**

**STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES**

STATION	OFFSET	TO	STATION	OFFSET	LENGTH
248+46.5	19.0' RT		249+09	19.0' RT	62.5'
248+09.0	19.0' LT		248+71.5	19.0' LT	62.5'
					TOTAL LENGTH: 125'

**63100167**

**TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)**

STATION	TO	STATION	EACH
246+71.5	RT	247+21.5	RT 1
246+96.5	LT	247+46.5	LT 1
250+34.0	RT	250+84.0	RT 1
250+59.0	LT	251+09.0	LT 1
		TOTAL :	4

TUG PROJ. #6103007-11  
PLOT DATE = AUG 27, 2007 11:47:28 AM  
FILE NAME = #FILE#

**The Upchurch Group**  
HILLSIDE, IL. (708) 449-2821  
MATTOON, IL. (217) 285-8177

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**SCHEDULE OF QUANTITIES**  
**IL 9/96 OVER OPPOSUM CREEK**  
**FAP 685 SECTION 113B-2**  
**HANCOCK COUNTY**

SCALE VERT. DATE HORIZ. DATE DRAWN BY SJF CHECKED BY MJS



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	9
STA. 69+70		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SIDE ROADS AND ENTRANCE IMPROVEMENT SCHEDULE														
LOCATION	TYPE OF ENTRANCE	EX MATERIAL TYPE	WIDTH	RT OFFSET	LT OFFSET	LENGTH (FROM EDGE OF PVT/ HMA SHLD TO LIMITS OF IMPROVEMENT)	PR HMA. CONC. THICKNESS	HMA. SURF. REM. - BUTT JOINT	PREP OF BASE	AGG. BASE REPAIR	AGGREGATE BASE COURSE TY - B	AGGREGATE BASE COURSE TY - B 6"	BIT. (P.C.)	INCIDENTAL HMA. SURF.
(LT / RT) STA) ( + )	(FE / PE / CE / MB) (RURAL / URBAN)	(EARTH / AGG. / HMA. / P.C.C.)	FOOT	FOOT	FOOT	FOOT	INCH	SO. YD.	SO. YD.	TON	TON	SO. YD.	TON	TON
<b>ENTRANCES</b>														
RT 251+70	FE	AGG	24			20	-		-	-	19	-	-	-
LT 252+00	PE	AGG	24			20	-		-	-	18	-	-	-
<b>TOTAL ENTRANCES:</b>											<b>37</b>			
<b>SIDE ROADS</b>														
RT 246+39.38	SR	OIL/CHIP	35			59	2		266	55	1	-	0.5	51
LT 246+44.32	SR	OIL/CHIP	34.5			49	2		218	67	1	-	0.5	42
<b>TOTAL SIDE ROADS:</b>									<b>484</b>	<b>122</b>	<b>39</b>		<b>1</b>	<b>93</b>

**44000100**

**PAVEMENT REMOVAL**

STATION	TO	STATION	AREA (SQ YD)
248+13		249+04	148
248+25 RT		249+14 RT	55
<b>TOTAL :</b>			<b>203</b>

**70300230**

**TEMPORARY PAVEMENT MARKING LINE 5"**

STATION	TO	STATION	COLOR	LENGTH (FEET)
245+20		252+50	YELLOW	910
245+20 LT		252+50 LT	WHITE	630
245+20 RT		252+50 RT	WHITE	630
<b>TOTAL LENGTH:</b>				<b>2170</b>

**PAVING SCHEDULE**

LOCATION	HMA BASE COURSE WIDENING 10"	LEVELING BINDER (MACHINE METHOD)	HMA BASE COURSE 10"	HMA SURFACE COURSE	HMA SHOULDERS
246+62 RT TO 251+98 RT	100 SY		432 SY		61 TON
246+80 LT TO 252+26 LT			485 SY		61 TON
248+13 TO 249+04			223 SY		
245+62 TO 252+08		67 TON			
245+20 TO 252+50				150 TON	
<b>TOTAL:</b>	<b>100 SY</b>	<b>67 TON</b>	<b>1140 SY</b>	<b>150 TON</b>	<b>122 TON</b>

**78001120**

**PAINT PAVEMENT MARKING-LINE 5"**

STATION	TO	STATION	COLOR	LENGTH (FEET)
245+20		252+50	YELLOW	910
245+20 LT		252+50 LT	WHITE	630
245+20 RT		252+50 RT	WHITE	630
<b>TOTAL LENGTH:</b>				<b>2170</b>

**70300100**

**SHORT TERM PAVEMENT MARKING**

STATION	TO	STATION	COLOR	LENGTH (FEET)
245+20		252+50	YELLOW	133
<b>TOTAL FOR 2 APPLICATIONS:</b>				<b>133</b>

**70301000**

**WORK ZONE PAVEMENT MARKING REMOVAL**

STATION	TO	STATION	COLOR	AREA (SQ FT)
245+20		252+50	YELLOW	45
<b>TOTAL AREA:</b>				<b>45</b>

REVISIONS	
NAME	DATE

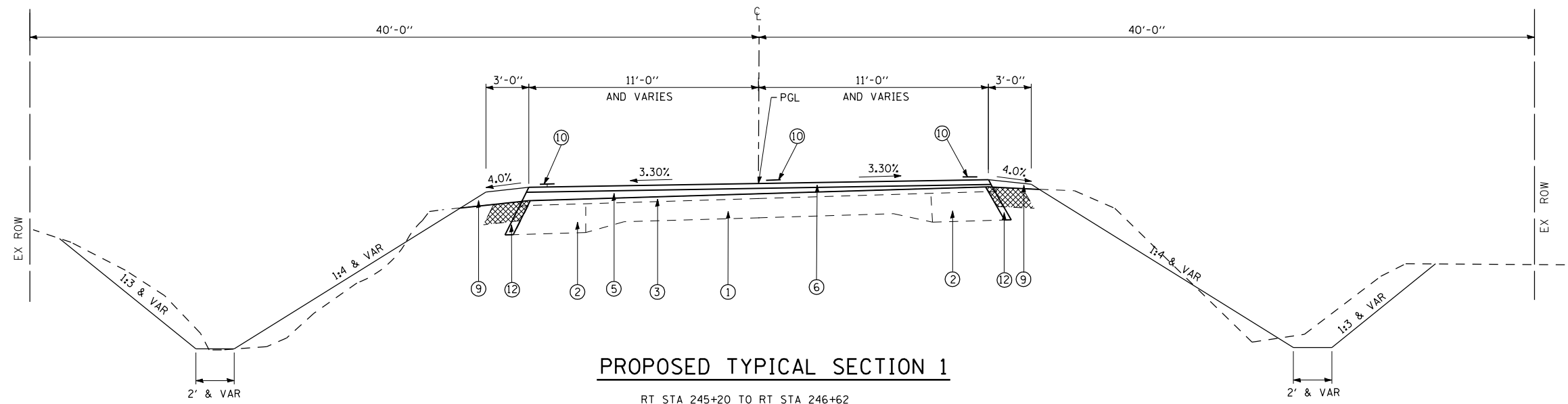
ILLINOIS DEPARTMENT OF TRANSPORTATION

**SCHEDULE OF QUANTITIES  
IL 9/96 OVER OPPOSUM CREEK  
FAP 685 SECTION 113B-2  
HANCOCK COUNTY**

SCALE VERT. HORIZ. DATE DATE DRAWN BY SJF CHECKED BY MJS

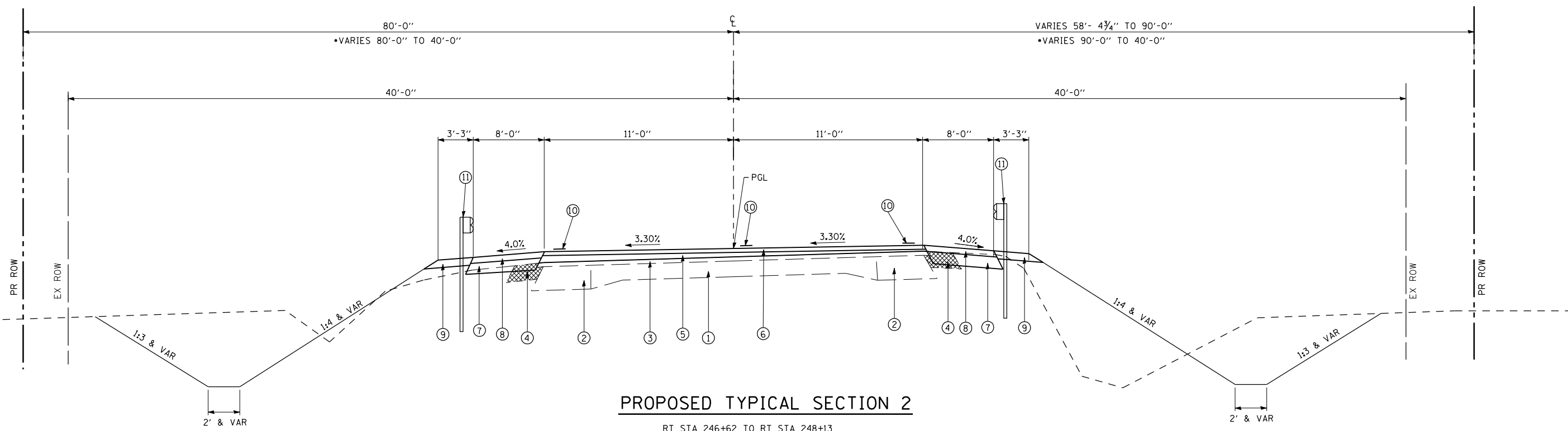
**The Upchurch Group**  
HILLSIDE, IL. (708) 449-2821  
MATTOON, IL. (217) 285-8177

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	10
STA. 685		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



**PROPOSED TYPICAL SECTION 1**

RT STA 245+20 TO RT STA 246+62  
 LT STA 245+20 TO LT STA 246+80  
 RT STA 251+98 TO RT STA 252+50  
 LT STA 252+26 TO LT STA 252+50



**PROPOSED TYPICAL SECTION 2**

RT STA 246+62 TO RT STA 248+13  
 LT STA 246+80 TO LT STA 248+13  
 • RT STA 249+04 TO RT STA 251+98  
 • LT STA 249+04 TO LT STA 252+26

**LEGEND**

- ① EX P.C.C. PAVEMENT, 9" - 6" - 9"
- ② EX HMA BASE COURSE WIDENING, 9"
- ③ EX HMA SURFACE
- ④ EX HMA WIDENING, 2'
- ⑤ PR LEVEL. BIND. MACHINE METHOD, 3/4" & VARIES
- ⑥ PR HMA SURF. CSE, MIX "C", N 50, 1 1/2"
- ⑦ PR HMA BASE CSE/WID. 10"
- ⑧ PR HMA SHLD, 2 1/4" & VARIES
- ⑨ PR AGG SHLD, T-B, 3"
- ⑩ PR PAINT PAVT MK, LINE 5"
- ⑪ PR SPBGR, T-A
- ⑫ PR AGG BASE COURSE TYPE B, 8"

REMOVAL

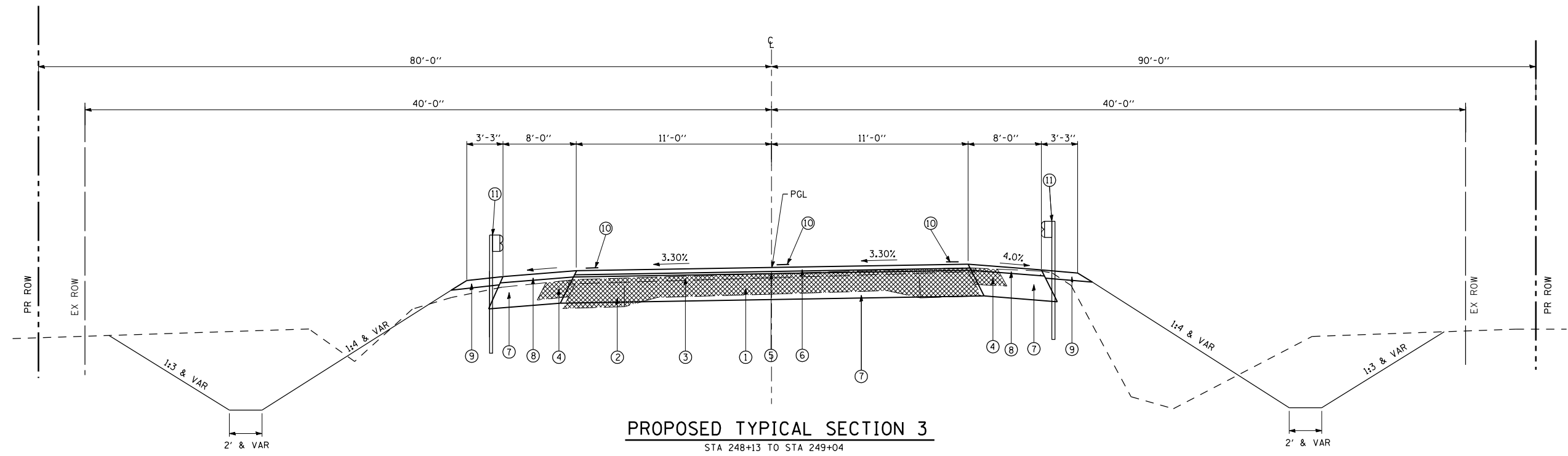
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TYPICAL SECTIONS**  
**IL 9/96 OVER OPPOSUM CREEK**  
**FAP 685 SECTION 113B-2**  
**HANCOCK COUNTY**  
 SCALE NTS  
 DATE #DATE  
 DRAWN BY SJF  
 CHECKED BY MJS

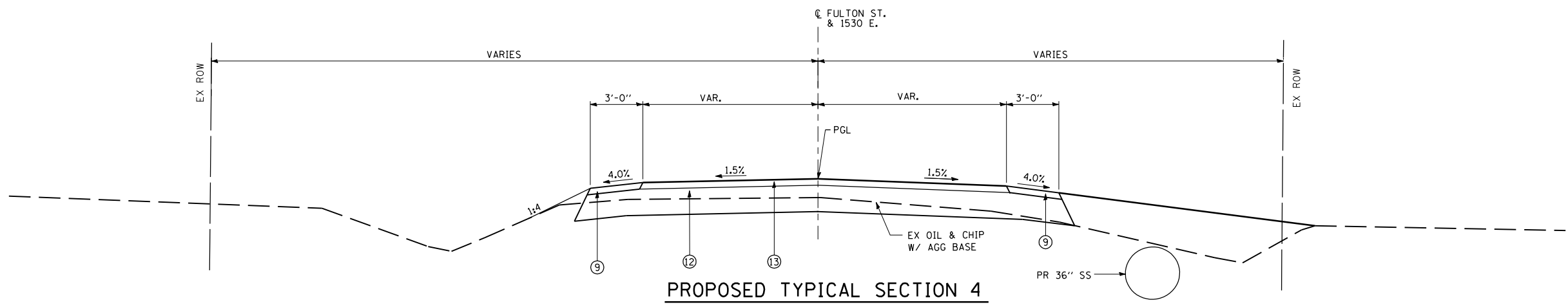
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 PLOT SCALE : 1/8"=1'-0" / IN.  
 USER NAME : laughlin-1

**The Upchurch Group**  
 HILLSIDE, IL. (708) 449-2821  
 MATTOON, IL. (217) 285-3177

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	11
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**PROPOSED TYPICAL SECTION 3**  
STA 248+13 TO STA 249+04



**PROPOSED TYPICAL SECTION 4**  
FULTON RD: STA 10+00 TO 10+60  
1530 E: STA 20+00 TO 20+70

**LEGEND**

- ① EX P.C.C. PAVEMENT, 9" - 6" - 9"
- ② EX HMA BASE COURSE WIDENING, 9"
- ③ EX HMA SURFACE
- ④ EX HMA WIDENING, 2"
- ⑤ PR LEVEL. BIND. MACHINE METHOD, 3/4" & VARIES
- ⑥ PR HMA SURF. CSE, MIX "C", N 50, 1 1/2"
- ⑦ PR HMA BASE CSE/WID. 10"
- ⑧ PR HMA SHLDS, 2 1/4" & VARIES
- ⑨ PR AGG. SHLDS, T-B, 3"
- ⑩ PR PAINT PAVT MK, LINE 5"
- ⑪ PR SPBGR, T-A
- ⑫ PR AGG BASE COURSE TYPE B, 8"
- ⑬ INCIDENTAL HMA SURFACING 4"



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**TYPICAL SECTIONS**  
**IL 9/96 OVER OPPOSUM CREEK**  
**FAP 685 SECTION 113B-2**  
**HANCOCK COUNTY**

SCALE NTS  
DATE \*DATE

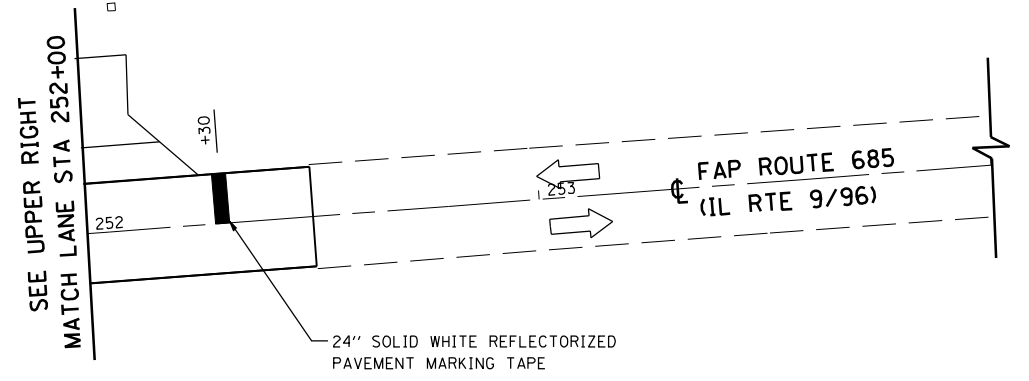
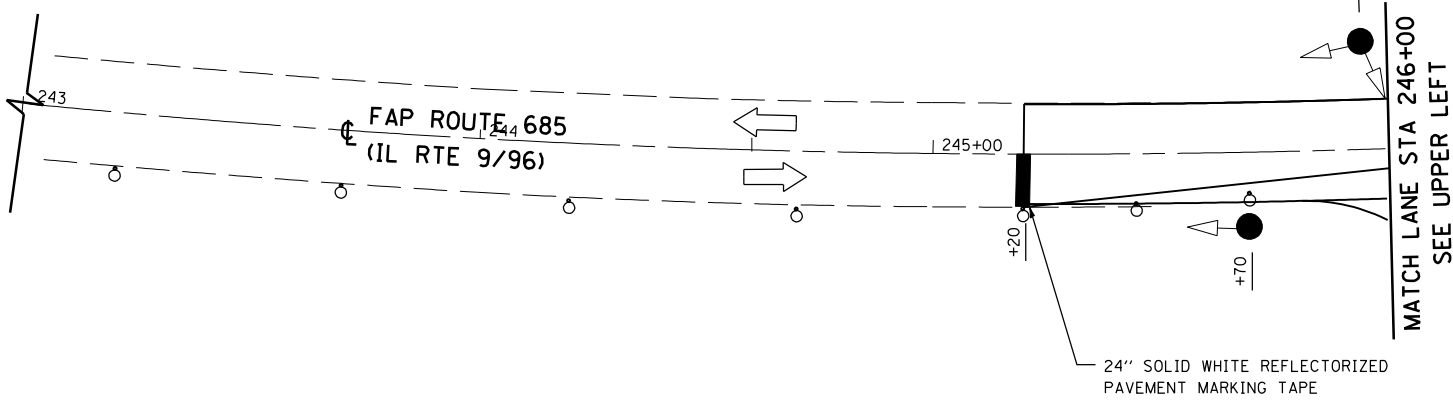
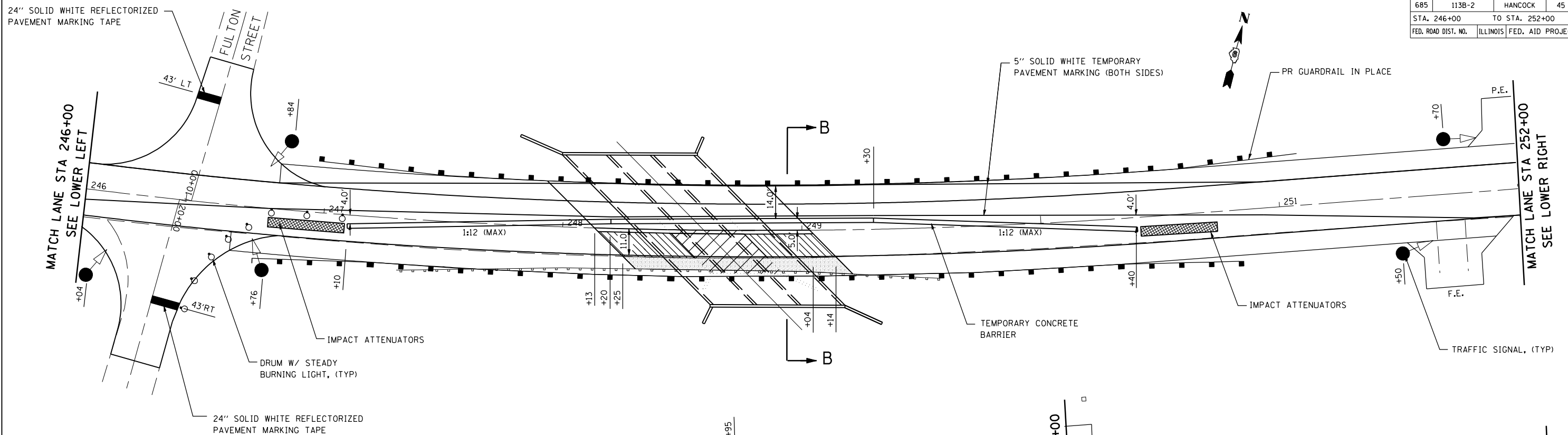
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CHECKED BY MJS

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PLOT SCALE = 1/32000 1/4" = 10'  
USER NAME = laughtin-1

**The Upchurch Group**  
HILLSIDE, IL (708) 449-2321  
MATTOON, IL (217) 235-8177



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	13
STA. 246+00		TO STA. 252+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



**STAGE 2**

**NOTES**

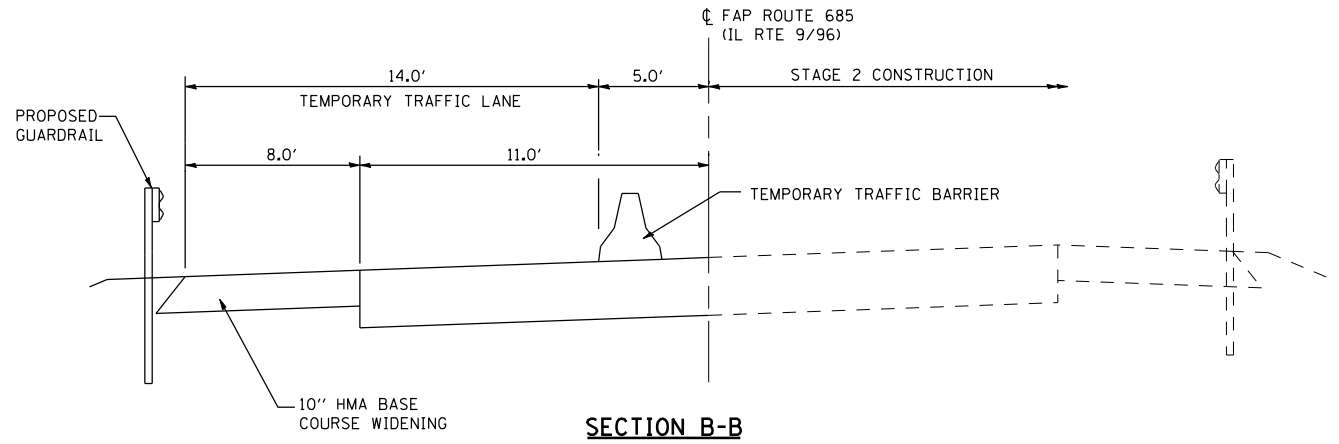
1. A WING BARRICADE, STANDARD 7020001 SHALL BE USED TO SUPPORT THE "SIGNAL AHEAD" SIGNS. TWO HIGH INTENSITY FLASHING LIGHTS PER BARRICADE SHALL BE INSTALLED INSTEAD OF TYPE A FLASHING LIGHTS.
2. THE CONTRACTOR SHALL PROVIDE AND ERECT A W12-1102, 48x48(0) LANE WIDTH SIGNS. THESE SHALL BE PLACED AS DIRECTED BY ENGINEER.
3. REMOVE EXISTING CONFLICTING PAV'T MARKING.

**STAGE 2 CONSTRUCTION SEQUENCE**

1. REMOVE REMAINDER OF EXISTING BRIDGE, CONSTRUCT REMAINDER OF BOX CULVERT (INCLUDING EARTHWORK, RIPRAP AND SEEDING).
2. CONSTRUCT GRANULAR CULVERT BACKFILL AND HMA BASE COURSE, 10" OVER BOX CULVERT.
3. CONSTRUCT REMAINDER OF 10" HMA BASE COURSE/WIDENING TO 8 FT. WIDE STA 247+67 TO STA 249+28 AND CONSTRUCT GUARDRAIL STA 246+71.5 TO STA 250+84
4. REMOVE STANDARD 701321 USING STANDARD 701201 AND 701301.
5. CONSTRUCT LEVELING BINDER, SURFACE COURSE, HMA SHOULDER, SIDEROAD AND ENTRANCE IMPROVEMENTS AND AGGREGATE SHOULDER USING STANDARDS 701011 AND 701306.

**LEGEND**

- PAVED SHOULDER REMOVAL
- PAVEMENT REMOVAL
- BRIDGE REMOVAL
- IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE, NARROW) TEST LEVEL 3



**SECTION B-B**

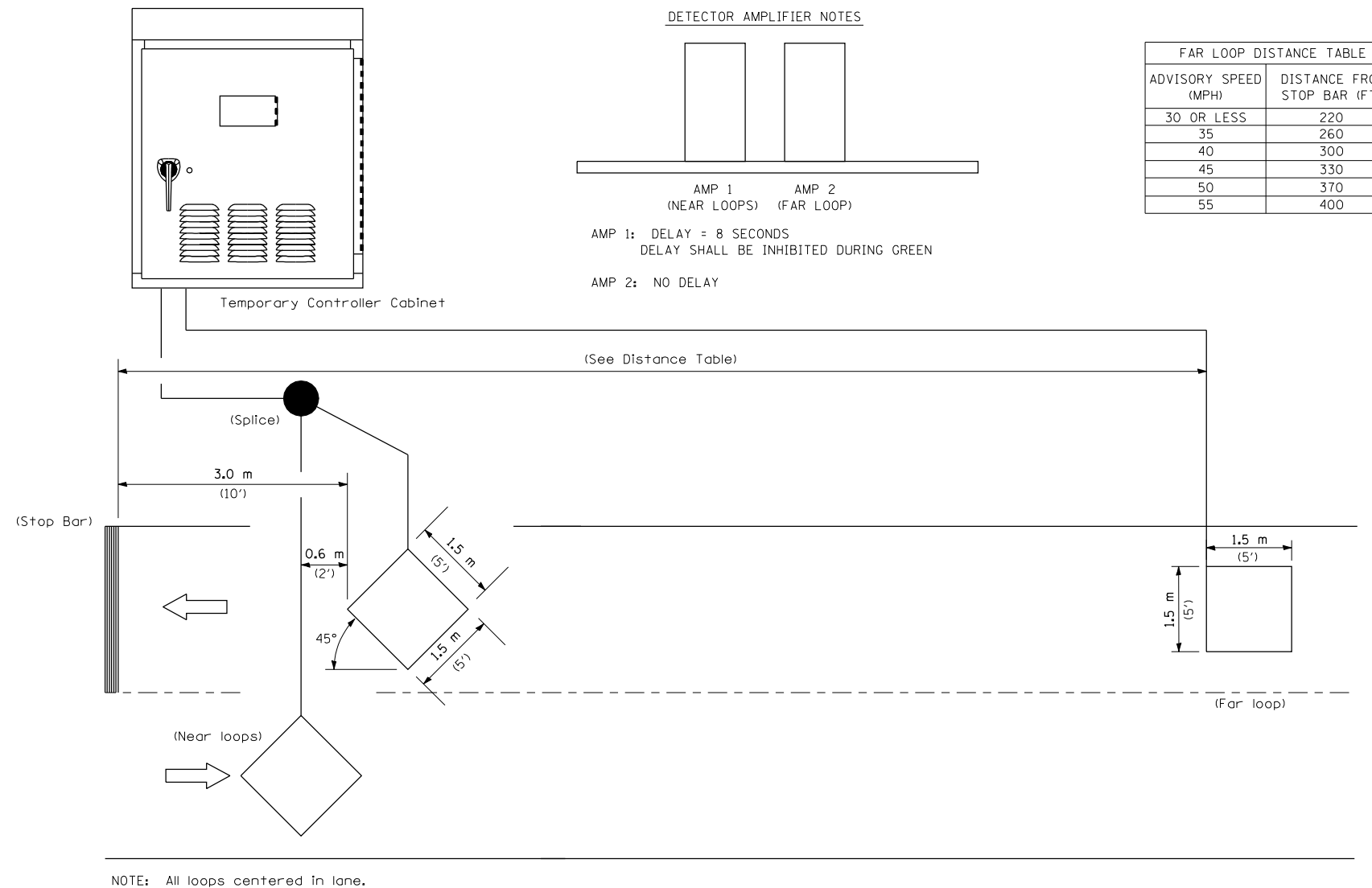
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**STAGE 2 CONSTRUCTION PLAN**  
**IL 9/96 OVER OPPOSUM CREEK**  
**FAP 685 SECTION 113B-2**  
**HANCOCK COUNTY**  
 SCALE VERT. HORIZ. 1"=20'  
 DATE DATE  
 DRAWN BY SJF  
 CHECKED BY MJS

TUG PROJ. #6103007-11  
 PLOT DATE = Aug 27, 2007 11:48:07 AM  
 FILE NAME = #FILE#

**The Upchurch Group**  
 HILLSIDE, IL. (708) 449-2821  
 MATTOON, IL. (217) 285-8177

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	14
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



INDUCTION LOOP DETECTOR

TEMPORARY BRIDGE TRAFFIC SIGNAL  
LOOP PLACEMENT DETAIL SHEET

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC CONTROL & PROTECTION  
IL 9/96 OVER OPPOSUM CREEK  
FAP 685 SECTION 113B-2  
HANCOCK COUNTY

SCALE NONE    DRAWN BY DIST. 6  
DATE #DATE    CHECKED BY MJS

**The Upchurch Group**  
HILLSIDE, IL. (708) 449-2321  
MATTOON, IL. (217) 235-3177

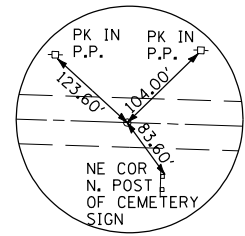
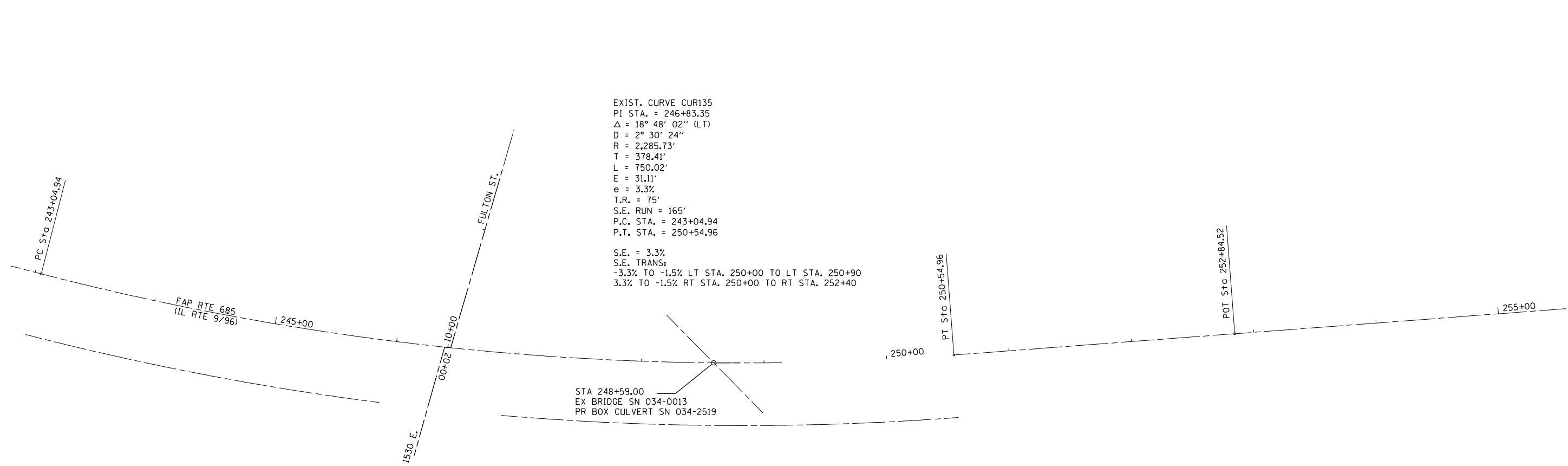
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	15
STA. 246+00		TO STA. 252+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

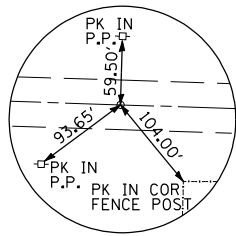
EXIST. CURVE CUR135  
 PI STA. = 246+83.35  
 $\Delta = 18^\circ 48' 02''$  (LT)  
 $D = 2^\circ 30' 24''$   
 $R = 2,285.73'$   
 $T = 378.41'$   
 $L = 750.02'$   
 $E = 31.11'$   
 $e = 3.3\%$   
 $T.R. = 75'$   
 $S.E. RUN = 165'$   
 $P.C. STA. = 243+04.94$   
 $P.T. STA. = 250+54.96$

S.E. = 3.3%  
 S.E. TRANS:  
 -3.3% TO -1.5% LT STA. 250+00 TO LT STA. 250+90  
 3.3% TO -1.5% RT STA. 250+00 TO RT STA. 252+40

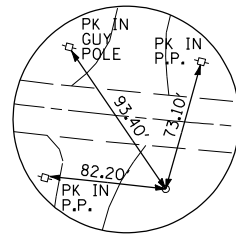
STA 248+59.00  
 EX BRIDGE SN 034-0013  
 PR BOX CULVERT SN 034-2519



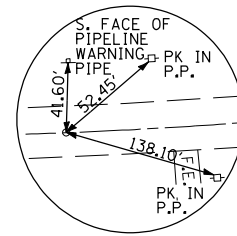
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 (PK NAIL IN C)



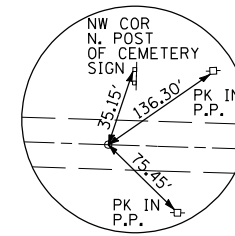
**PC STA 243+04.94**  
 (PK NAIL IN C)



**PI STA 246+83.35**  
 (I. PIN)



**PT STA 250+54.90**  
 (PK NAIL IN C)



**POT STA 254+00.00**  
 (PK NAIL IN C)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**ALIGNMENT AND TIES  
 IL 9/96 OVER OPPOSUM CREEK  
 FAP 685 SECTION 113B-2  
 HANCOCK COUNTY**

SCALE VERT. 1"=40'  
 DATE #DATE  
 DRAWN BY RLH  
 CHECKED BY MJS

TUG PROJ: 6103007-11  
 PLOT DATE: 4/9/27-2007 11:48:17 AM  
 FILE NAME: #FILE\*

**The Upchurch Group**  
 HILLSIDE, IL. (708) 449-2321  
 MATTOON, IL. (217) 285-3177





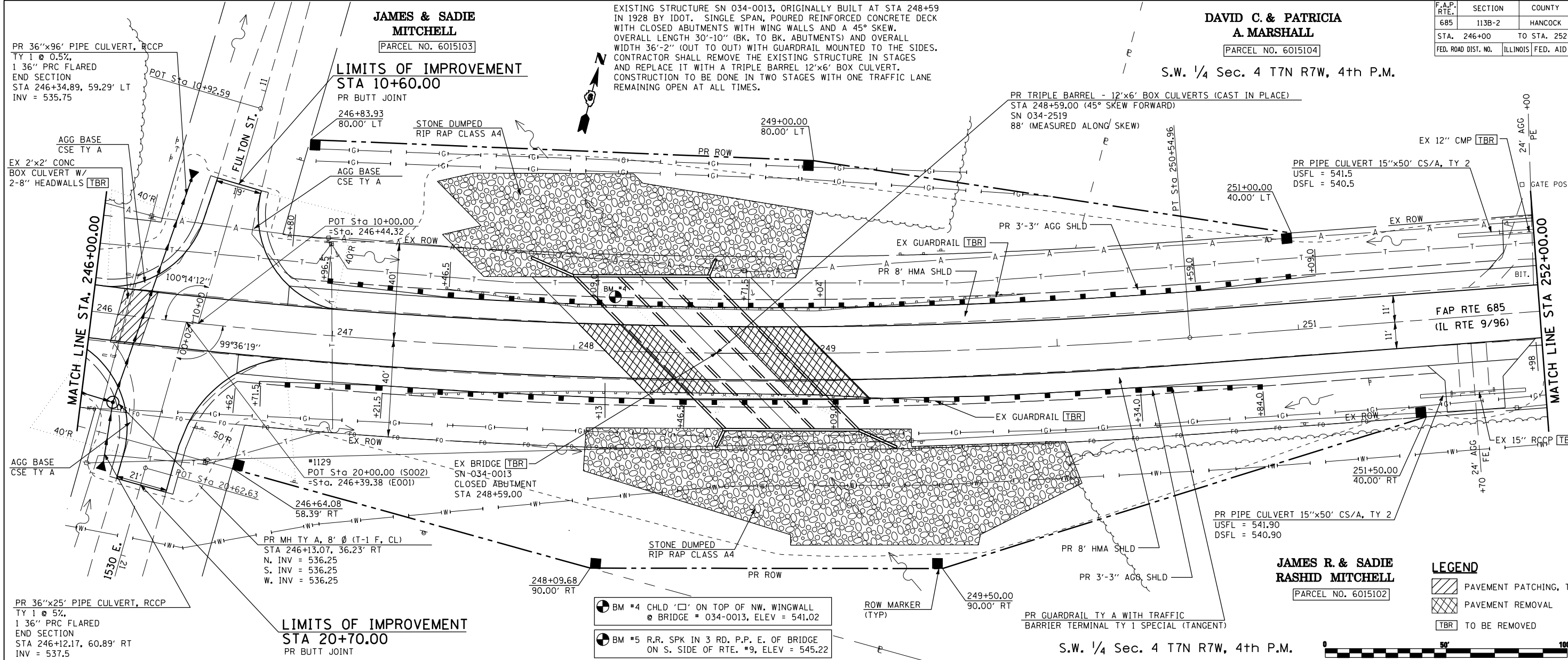
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	17
STA. 246+00		TO STA. 252+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**JAMES & SADIE MITCHELL**  
 [PARCEL NO. 6015103]

**DAVID C. & PATRICIA A. MARSHALL**  
 [PARCEL NO. 6015104]

S.W. 1/4 Sec. 4 T7N R7W, 4th P.M.

EXISTING STRUCTURE SN 034-0013, ORIGINALLY BUILT AT STA 248+59 IN 1928 BY IDOT. SINGLE SPAN, POURED REINFORCED CONCRETE DECK WITH CLOSED ABUTMENTS WITH WING WALLS AND A 45° SKEW. OVERALL LENGTH 30'-10" (BK. TO BK. ABUTMENTS) AND OVERALL WIDTH 36'-2" (OUT TO OUT) WITH GUARDRAIL MOUNTED TO THE SIDES. CONTRACTOR SHALL REMOVE THE EXISTING STRUCTURE IN STAGES AND REPLACE IT WITH A TRIPLE BARREL 12'x6' BOX CULVERT. CONSTRUCTION TO BE DONE IN TWO STAGES WITH ONE TRAFFIC LANE REMAINING OPEN AT ALL TIMES.



**LIMITS OF IMPROVEMENT**  
 STA 20+70.00  
 PR BUTT JOINT

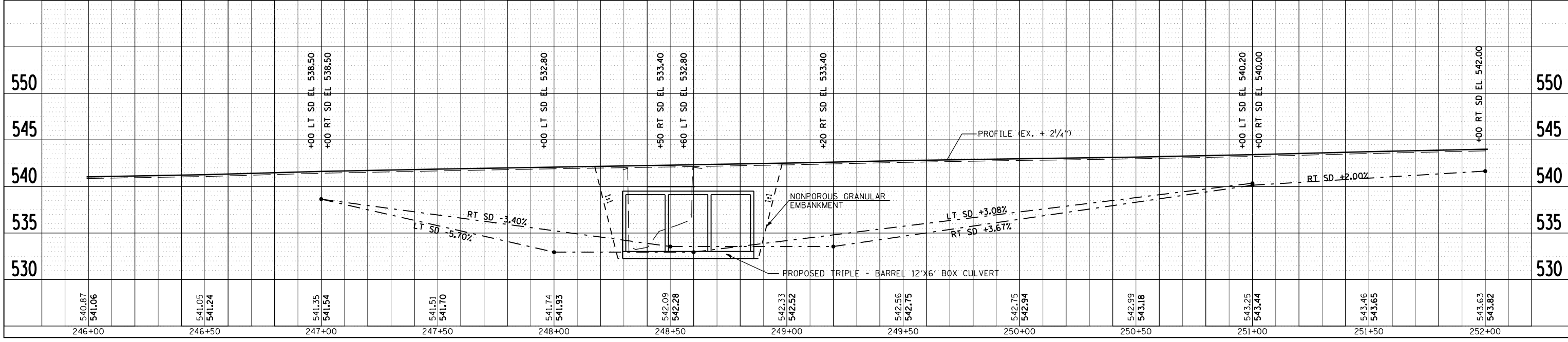
**JAMES R. & SADIE RASHID MITCHELL**  
 [PARCEL NO. 6015102]

**LEGEND**

- PAVEMENT PATCHING, TYPE II, 12"
- PAVEMENT REMOVAL
- TO BE REMOVED

- BM #4 CHLD '□' ON TOP OF NW. WINGWALL @ BRIDGE # 034-0013, ELEV = 541.02
- BM #5 R.R. SPK IN 3 RD. P.P. E. OF BRIDGE ON S. SIDE OF RTE. #9, ELEV = 545.22

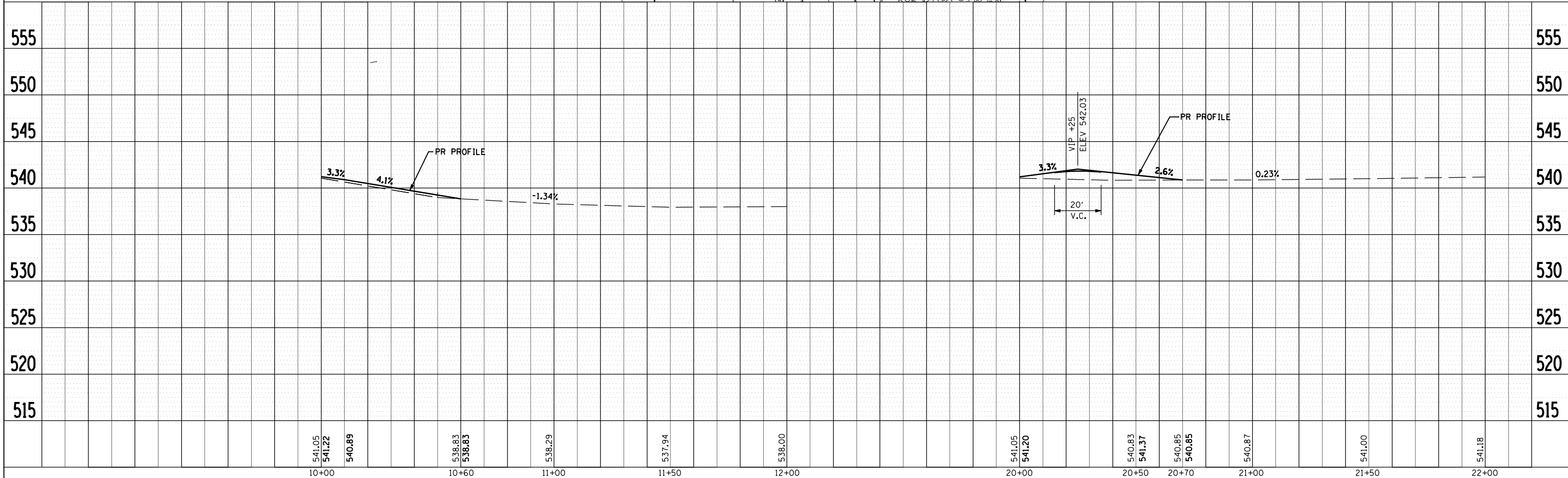
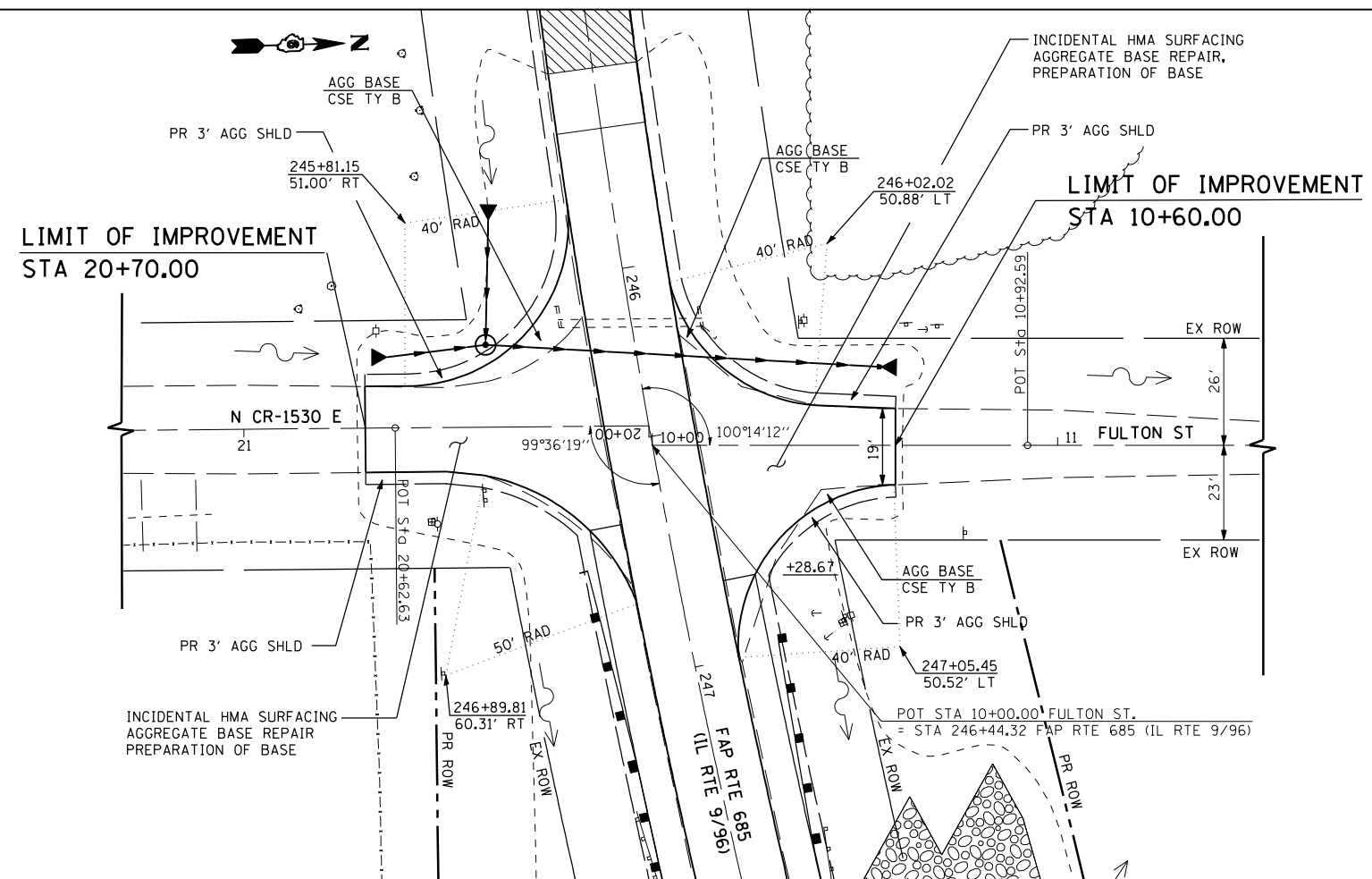
S.W. 1/4 Sec. 4 T7N R7W, 4th P.M.



TUG PROJ: #103007-11  
 PLOT DATE: AUG 27 2007 11:48:24AM  
 FILE NAME: #FILE#



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	19
STA. 10+00		TO STA. 22+66.88		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TUG PROJ: 6103007-11  
 PLOT DATE: AUG 27 2007 11:48:32AM  
 FILE NAME: #FILE\*

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	20
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STORM WATER POLLUTION PREVENTION PLAN

Route: FAP 685                      Marked: IL 9/96  
 Section: 113B-2                      Project No.: NA  
 County: Hancock                      Contract No.: 72903

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

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

*[Signature]*                      8/28/07  
 (Signature)                      (Date)

*[Signature]*  
 (Title)

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

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

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

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

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

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

All disturbed areas having high potential for erosion, as determined by the Engineer, shall be temporarily seeded or permanently seeded by October 1, 2008 and shall not be reopened until after the winter shutdown period.

SITE DESCRIPTION

Description of Construction Activity:

1. The proposed project consists of removal and replacement of the existing bridge spanning Opposum Creek on IL 9/96 in Pontoonoc, Hancock county.
2. Construction consists of grading, constructing culverts / storm sewer system, widening, bituminous resurfacing, placing aggregate shoulders and other miscellaneous work to complete improvements to the proposed roadways.

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

1. Tree removal will be completed to clear the construction area as shown on the plans.
2. Excavation will be completed along the entire length to grade out for proposed roadway ditches and waterways.
3. Excavation will also be completed in proposed cut sections to lower the existing ground elevation to meet the proposed roadway grade/vertical alignment.
4. Embankment widening will be completed in fill areas to raise the existing ground elevation to meet the proposed roadway foreslope and backslope.
5. Drainage structures will be installed before and/or during the construction of the excavation and embankment to allow proper drainage across the proposed two lane facility.
6. Placement, maintenance, removal and proper clean-up of temporary erosion control, such as erosion control fence, riprap ditch checks, temporary seeding, etc.
7. Placement of permanent erosion control, such as riprap ditch lining, riprap stilling basins, riprap dry dams, excelsior blanket, seeding, etc.
8. Final grading, paving and other miscellaneous items.

Area of Construction Site:

The total drainage area entering and including the construction site is estimated to be 800 acres in which 1.3 acres will be disturbed by excavation, grading or other activities.

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

1. Estimated run-off coefficients are contained in the project drainage study which were utilized for proposed placement of the temporary erosion control systems.
2. Information on the soils within the site was obtained from field reviews which were utilized for proposed placement of the temporary erosion control systems.
3. Site maps indicating drainage patterns and approximate slopes were contained in the project design report, USGS drainage maps, project drainage study, and project plan documents were all utilized for proposed placement of the temporary erosion control systems.

Drainage Tributaries Receiving Water from this Construction Site:

1. Opposum Creek

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

VERT. SCALE:                      DATE: APRIL 5, 1999

DRAWN BY CADD  
 CHECKED BY JCN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	21
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROLS

Description of Stabilization Practices at the Beginning of Construction:

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

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

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

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

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

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

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

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

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

Description of Stabilization Practices During Construction:

1. During roadway construction, areas outside the construction slope limits as outlined previous herein shall be protected from damaging effects of construction. The Contractor shall not use this area for staging (except as designated on the plans or directed by the Engineer), parking of vehicles or construction equipment, storage of materials, or other construction related activities.

(a) Within the construction zone, critical areas which have high flows of water as determined by the Engineer shall remain undisturbed until full scale construction is underway to prevent unnecessary soil erosion.

(b) Top soil and earth stockpiles shall be temporarily seeded if they are to remain unused for more than fourteen days.

(c) As the Contractor constructs a portion of roadway in a fill section, he/she shall follow the following steps as directed by the Engineer:

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

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

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

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

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

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

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

Description of Structural Practices After Final Grading:

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

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

Maintenance after Construction:

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

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

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

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

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

DOCUMENTATION

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

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

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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**STORM WATER POLLUTION PREVENTION PLAN**

SCALE: VERT.  
 HORIZ.  
 DATE: APRIL 5, 1999

DRAWN BY CADD  
 CHECKED BY JCN

**SWPPLAN**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	22

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

CONTRACTOR CERTIFICATION STATEMENT

This certification statement is part of the Storm Water Pollution Plan for the project described below in accordance with NPDES Permit No. ILR10 \_\_\_\_\_, issued by the Illinois Environmental Protection Agency on \_\_\_\_\_.

Route: FAP 685                      Marked: IL 9/96  
 Section: 113B-2                      Project No.: NA  
 County: Hancock                      Contract No.: 72903

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

Signature \_\_\_\_\_                      Date \_\_\_\_\_  
 Title \_\_\_\_\_  
 Name of Firm \_\_\_\_\_  
 Street Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone Number \_\_\_\_\_

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

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 USER NAME = laughlin-1

SWPPLAN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**STORM WATER POLLUTION PREVENTION PLAN**

SCALE: VERT.  
 HORIZ.  
 DATE: APRIL 5, 1999

DRAWN BY CADD  
 CHECKED BY JCN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	23
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND FOR STORM WATER POLLUTION PREVENTION PLAN

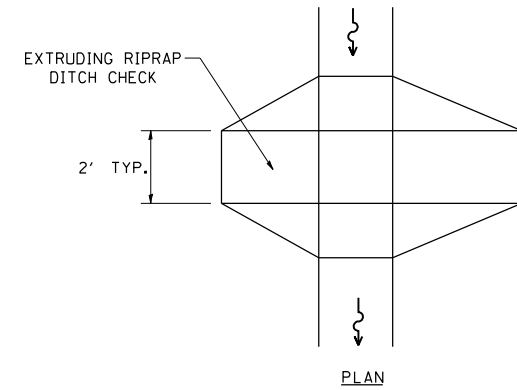
ITEM	SYMBOL
AGGREGATE (EROSION CONTROL) [STONE DUMPED RIPRAP DITCH CHECKS: Height = 0.6m (2')]	
TEMPORARY DITCH CHECKS	
INLET PIPE PROTECTION (I&PP)	
EROSION CONTROL FENCE	
EARTH EXCAVATION FOR EROSION CONTROL (SEDIMENT BASINS)	
PRESERVE EXISTING TREES, WOODLANDS, AND UNDERSTORY (OUTSIDE CONSTRUCTION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

GENERAL NOTES:

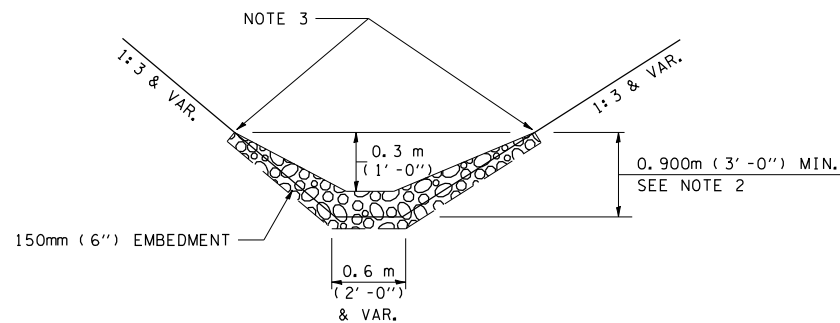
All items shall be constructed as shown on this sheet, on Standard 280001, and as directed by the Engineer.

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

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



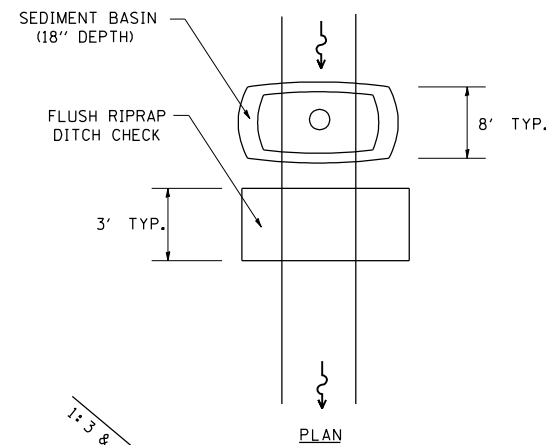
PLAN



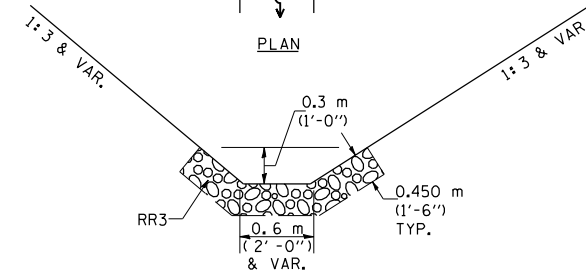
ELEVATION

OPTION 1

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



PLAN



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)

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

NOTE 2: RIPRAP SHALL EXTEND FAR ENOUGH UP THE SLOPES TO ALLOW 0.3m (1') OVERTOPPING TO AVOID ERODING AROUND THE EDGES OF THE RIPRAP.

NOTE 3: ENDS SHALL BE TIED INTO SLOPES.

SWPPLAN

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USER NAME = laughlin-1

REVISIONS	
NAME	DATE
CAD Symbol	2AUG99
JCN	MAR2004

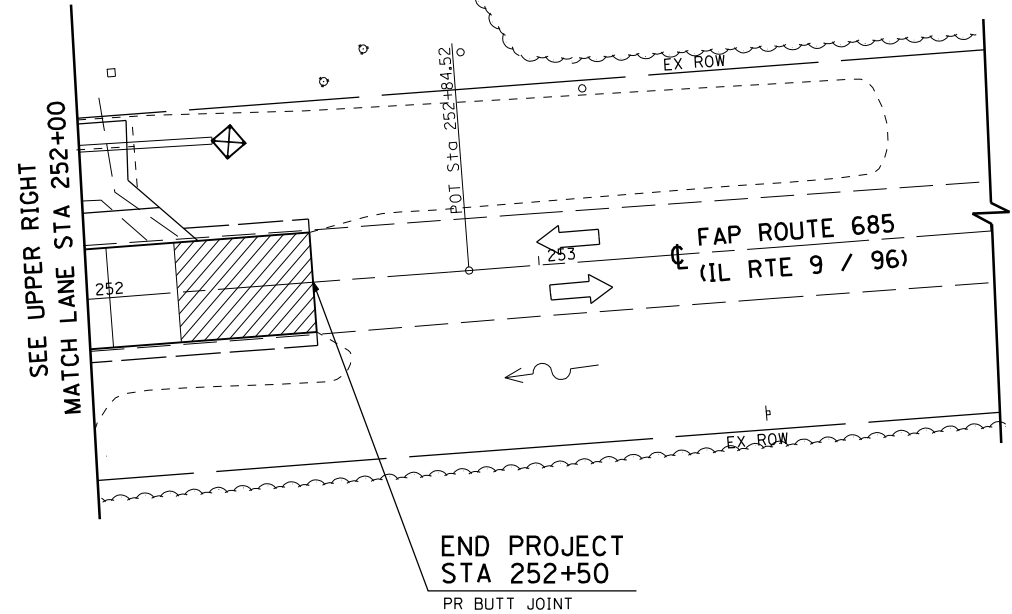
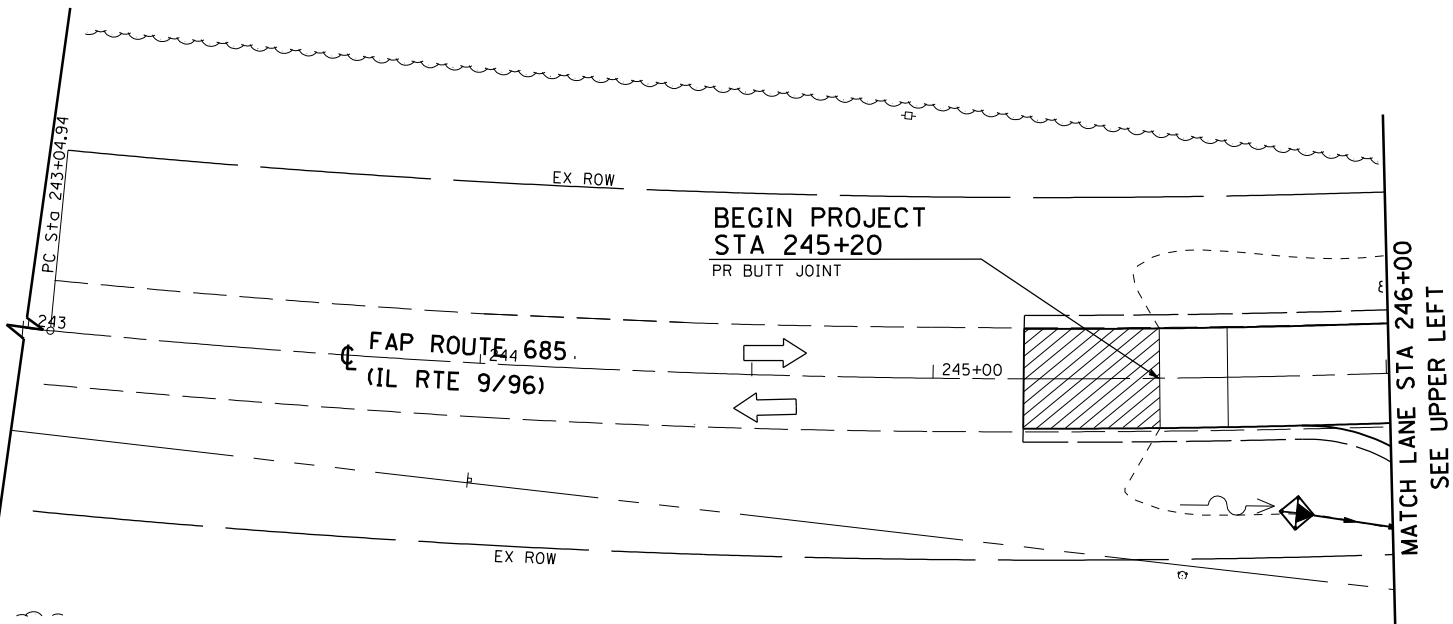
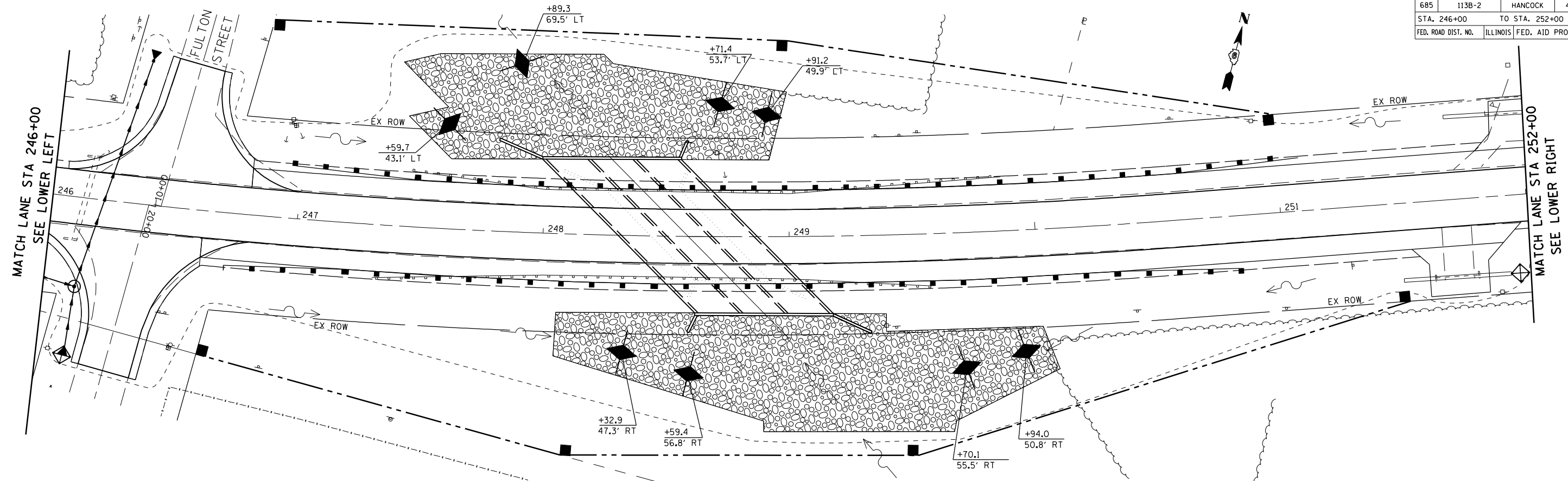
ILLINOIS DEPARTMENT OF TRANSPORTATION

**STORM WATER POLLUTION PREVENTION PLAN**



SCALE: VERT.  
HORIZ.  
DATE: APRIL 5, 1999

DRAWN BY CADD  
CHECKED BY JCN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	24
STA. 246+00		TO STA. 252+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



**LEGEND**

-  TEMPORARY AGGREGATE DITCH CHECK AGGREGATE (EROSION CONTROL)
-  INLET & PIPE PROTECTION TEMPORARY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**EROSION CONTROL PLAN**  
**IL 9/96 OVER OPPOSUM CREEK**  
**FAP 685 SECTION 113B-2**  
**HANCOCK COUNTY**

SCALE VERT. 1"=20'  
 DATE #DATE

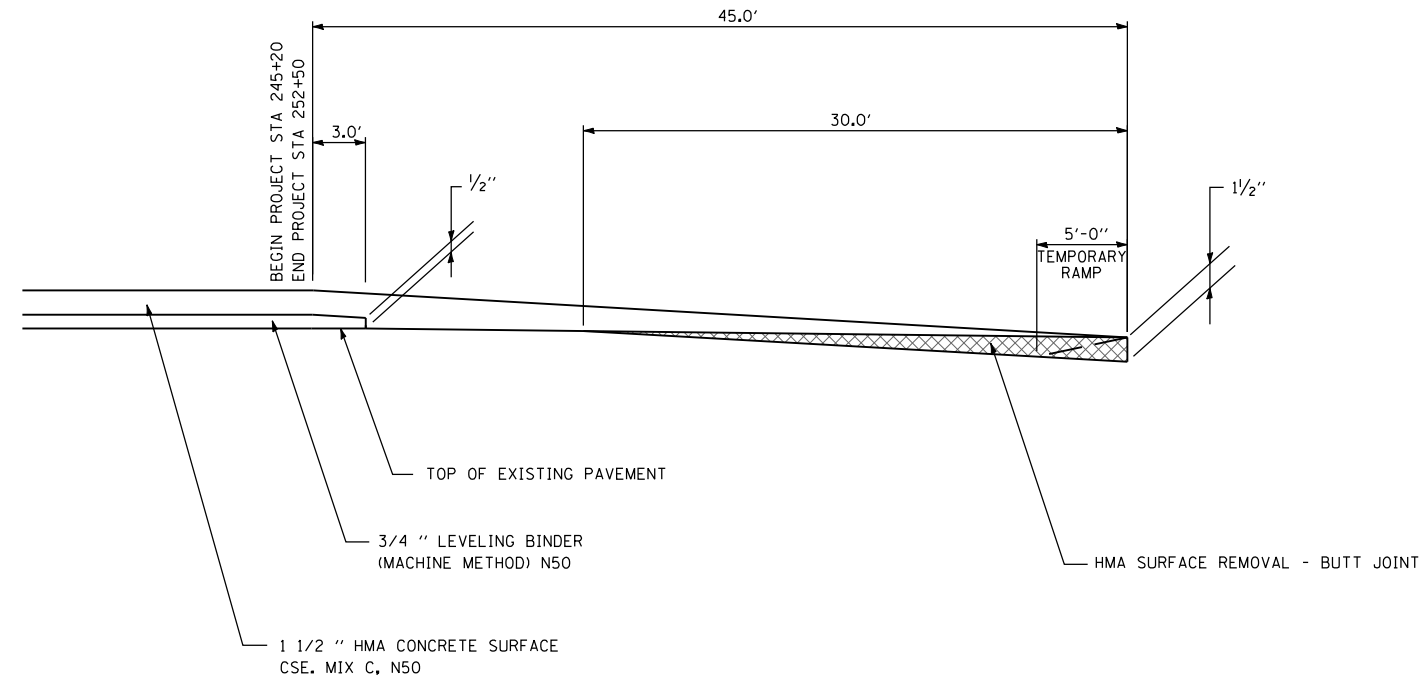
DRAWN BY SJF  
 CHECKED BY MJS

TUG PROJ: 6103007-11  
 PLOT DATE: Aug 27, 2007 11:48:58 AM  
 FILE NAME: #FILE#

**The Upchurch Group**  
 HILLSIDE, IL. (708) 449-2321  
 MATTOON, IL. (217) 285-3177



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	25
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



**TYPICAL TAPER DETAIL**  
(AT EACH END OF PROJECT)

LOCATION (STATION TO STATION)	ROUTE	HOT-MIX ASPHALT SURFACE REMOVAL- BUTT JOINT	TEMPORARY RAMP
		QUANTITY (SQ YD)	QUANTITY (SQ YD)
STA 245+20.00 TO STA 245+95.00	RTE 9	74	13
STA 252+05.00 TO STA 252+50.00	RTE 9	74	13
TOTAL		148	26

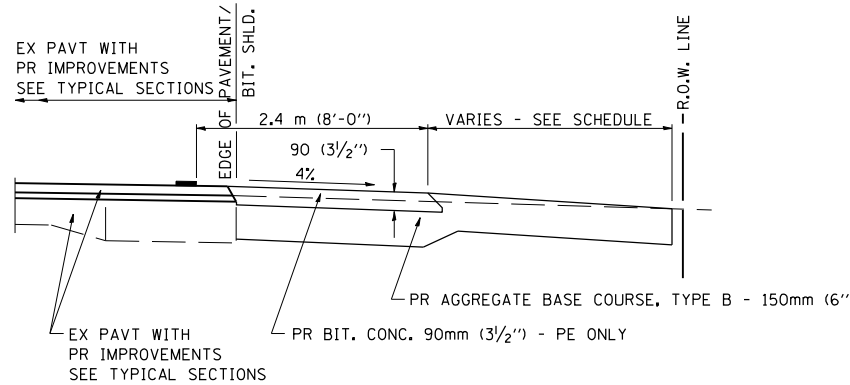
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PLOT DATE: 4/9/27-2007 11:14:18 AM  
FILE NAME: #FILE\*

**The Upchurch Group**  
HILLSIDE, IL. (708) 449-2321  
MATTOON, IL. (217) 235-3177

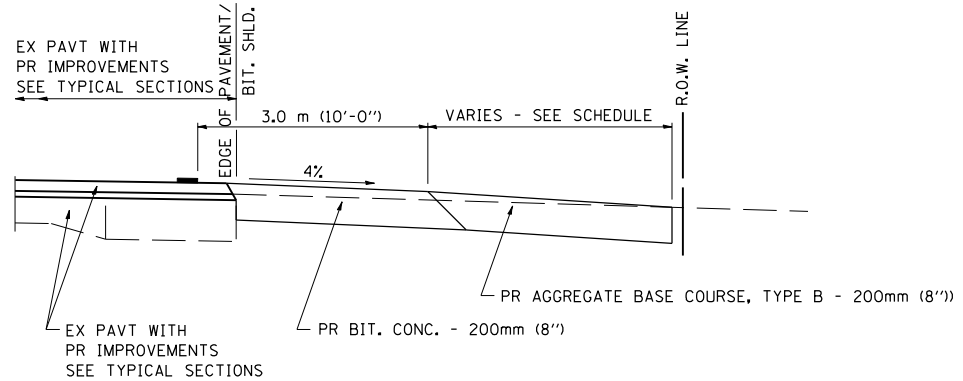
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
  
**DETAILS**  
**IL 9/96 OVER OPPOSUM CREEK**  
**FAP 685 SECTION 113B-2**  
**HANCOCK COUNTY**  
  
SCALE VERT.      DRAWN BY RLH  
DATE      #DATE      CHECKED BY MJS

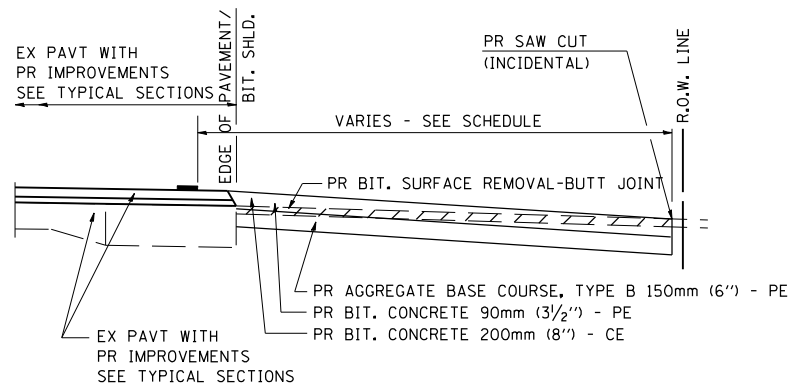
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685	113B-2	HANCOCK	45	26
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



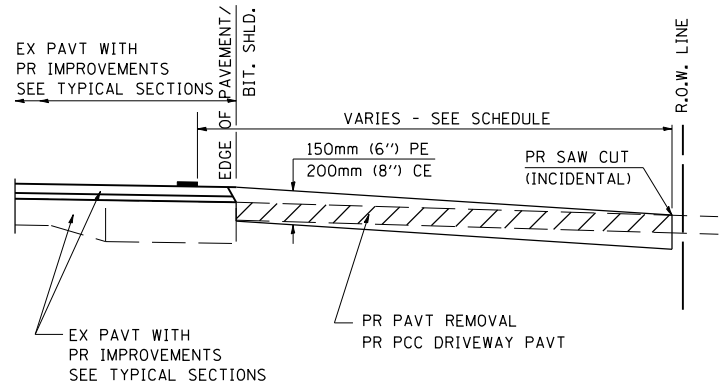
**SECTION A-A FOR EX EARTH/AGGREGATE FE & PE**



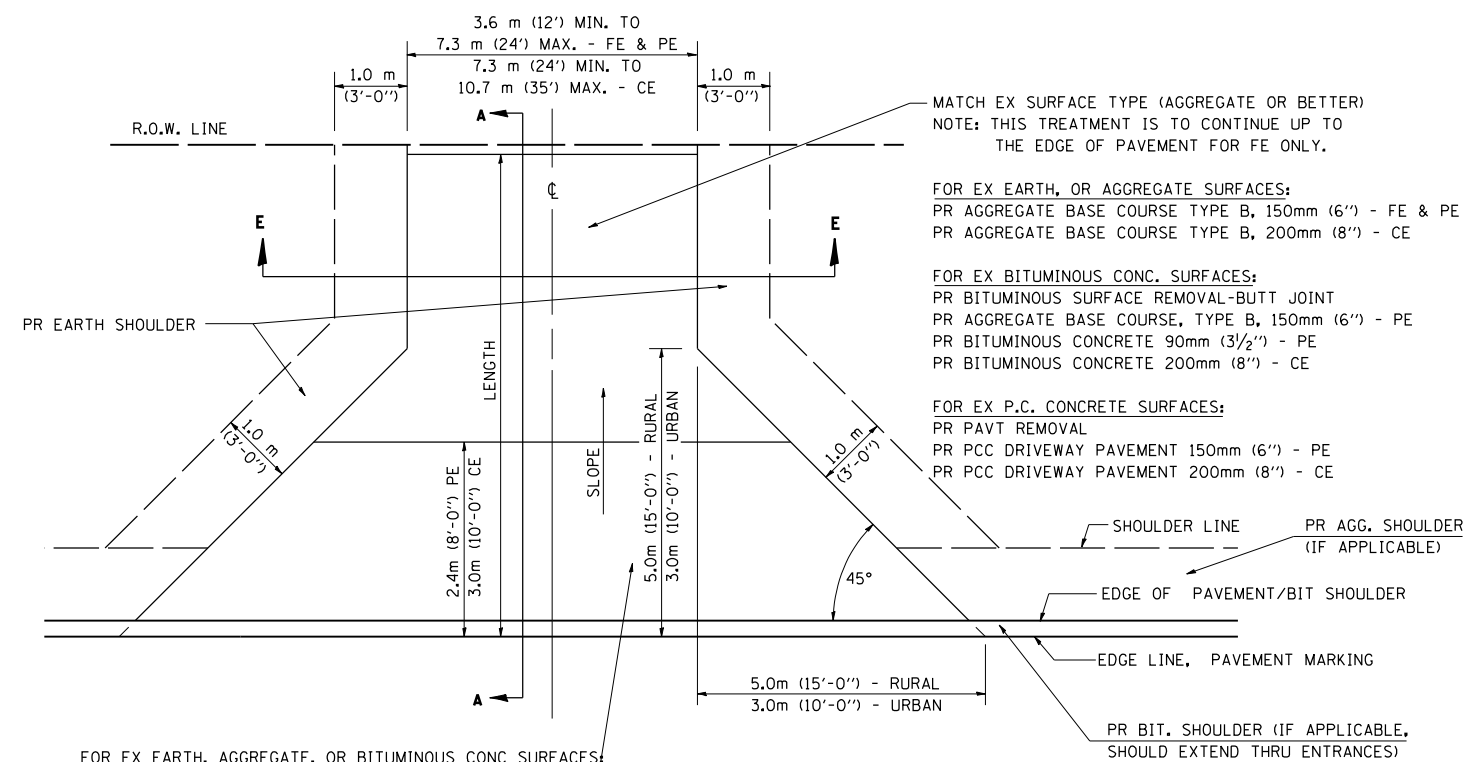
**SECTION A-A FOR EX EARTH/AGGREGATE CE**



**SECTION A-A FOR EX BITUMINOUS PE & CE**



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



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

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

**GENERAL NOTES:**

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

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

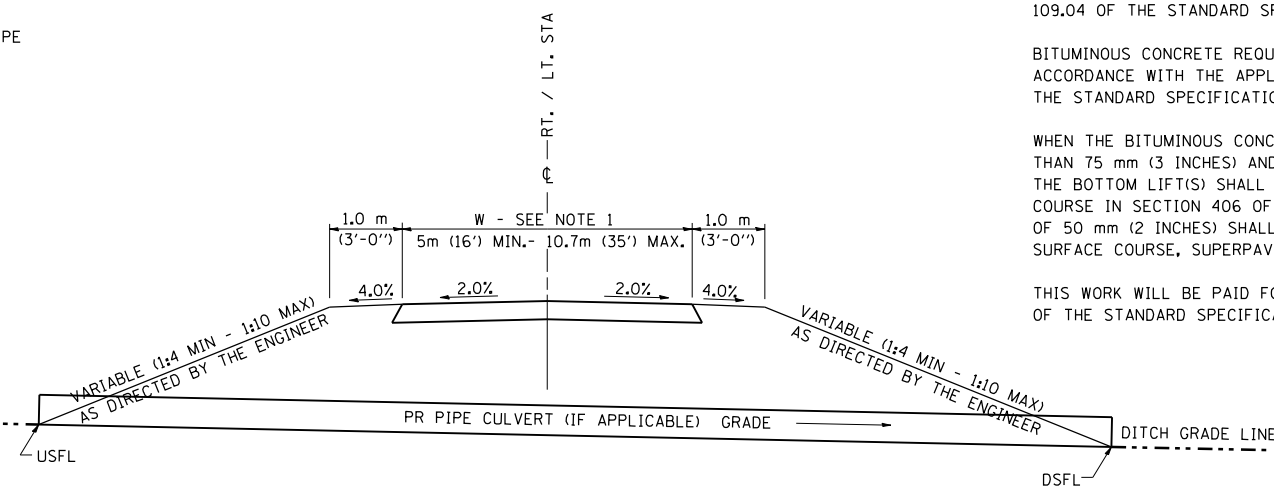
ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

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

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

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

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



**SECTION E - E ENTRANCE TYPICAL SECTION**

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

REVISIONS	
NAME	DATE
JCN	2/19/03
JCN	4/01/04

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

SCALE: VERT. HORIZ.  
 DATE: FEBRUARY 23, 1999

DRAWN BY: CADD  
 CHECKED BY: JCN

PLOT DATE = Aug-27-2007 11:52:44AM  
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 PLOT SCALE = 1/8"=1'-0" / IN.  
 USER NAME = laughlinr1

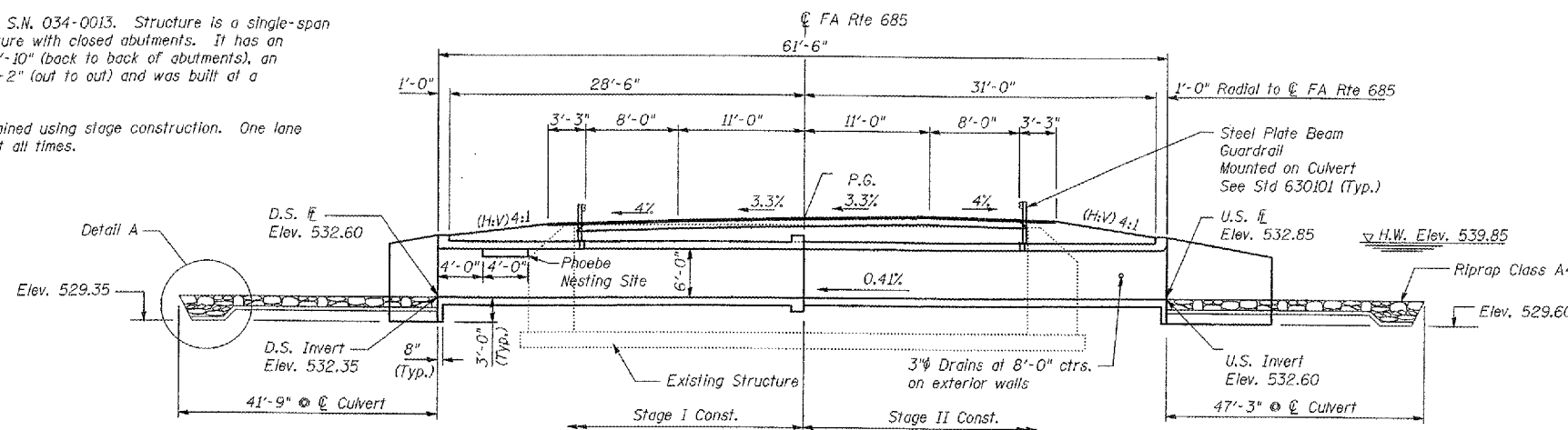
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	27
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

Benchmark: Chiseled Square on top of northwest wingwall of existing bridge. Elevation 541.02

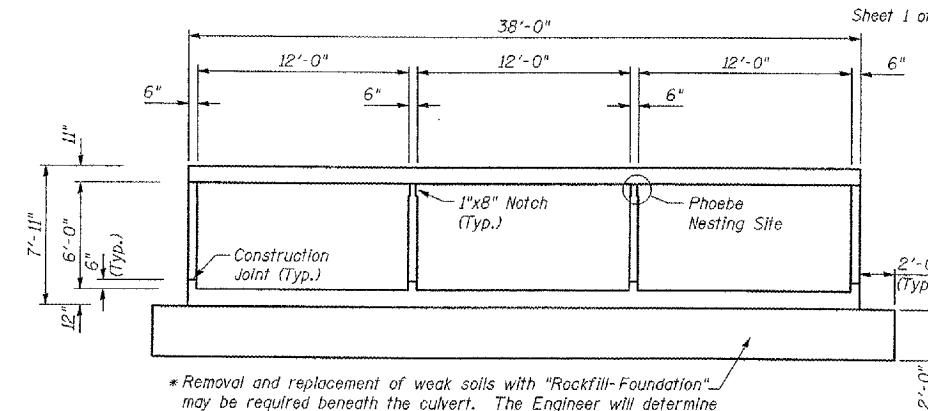
Existing Structure: S.N. 034-0013. Structure is a single-span concrete slab structure with closed abutments. It has an overall length of 30'-10" (back to back of abutments), an overall width of 36'-2" (out to out) and was built at a 45 degree skew.

Traffic to be maintained using stage construction. One lane is to remain open at all times.

No salvage.



**LONGITUDINAL SECTION**  
(Horiz. Dim. @ Rt. L's to @ FA Rte 685)



**SECTION THRU BARREL**

\* Removal and replacement of weak soils with "Rockfill- Foundation" may be required beneath the culvert. The Engineer will determine the required depth following excavation to plan grade.

**GENERAL NOTES**

1. Precast Box Culvert alternate is not allowed.
2. Reinforcement Bars shall conform to the requirements of ASTM A706 GR 60 (LL Modified). See Special Provisions.
3. At least seven feet of Barrel shall be poured monolithically with wing walls.
4. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
5. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing Superstructure. The Contractor shall saw cut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.
6. 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.
7. See Sheet 2 of 8 for Detail A.

**TOTAL BILL OF MATERIAL**

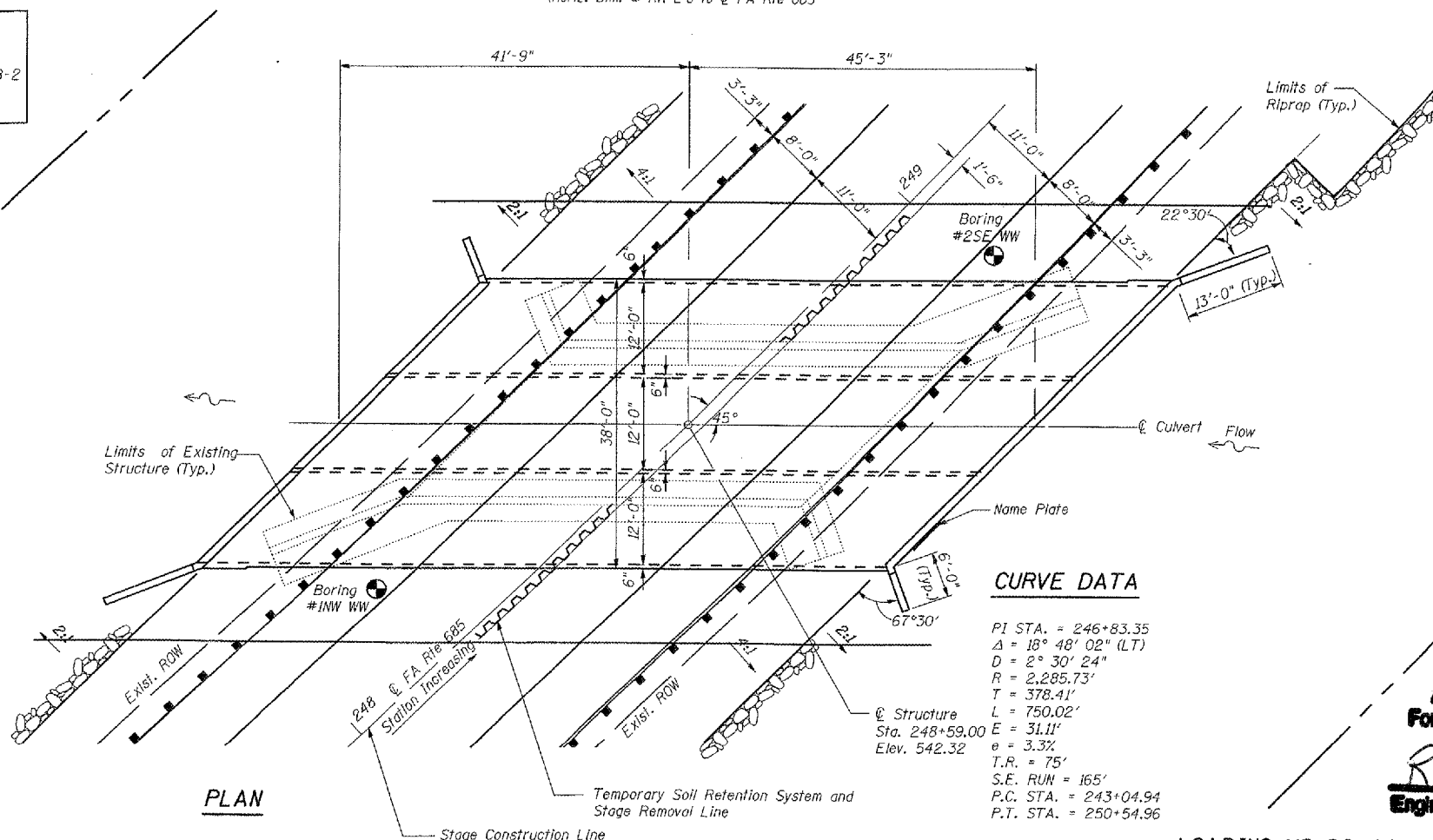
ITEM	UNIT	SUPER	SUB	TOTAL
Stone Dumped Riprap, Class A4	Ton		946	946
Filter Fabric	Sq. Yd.		1420	1420
Removal of Existing Structures	Each		1	1
Bar Splicers	Each	160	160	
Concrete Box Culverts	Cu. Yd.		301.2	301.2
Reinforcement Bars	Lb.		94810	94810
Name Plates	Each		1	1
Temporary Soil Retention System	Sq. Ft.		565	565
Rock Fill - Foundation	Ton		525	525
Granular Culvert Backfill	Cu. Yd.		630	630
Steel Plate Beam Guardrail, Attached to Structures	Foot		125	125

**CURVE DATA**

PI STA. = 246+83.35  
 $\Delta = 18^\circ 48' 02''$  (LT)  
 $D = 2^\circ 30' 24''$   
 $R = 2,285.73'$   
 $T = 378.41'$   
 $L = 750.02'$   
 $E = 31.11'$   
 $e = 3.3\%$   
 $T.R. = 75'$   
 $S.E. RUN = 165'$   
 $P.C. STA. = 243+04.94$   
 $P.T. STA. = 250+54.96$

STATION 248+59.00  
 BUILT 20 BY  
 STATE OF ILLINOIS  
 F.A.P. RTE. 685 SEC. 113B-2  
 LOADING HS20  
 STR. NO. 034-2519

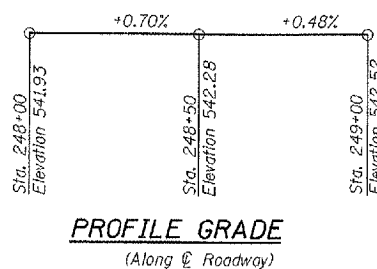
**NAME PLATE**  
 See Std. 515001



**PLAN**

**DESIGN SCOUR ELEV. TABLE**

	Upstream	Downstream
Design Scour Elev. (Ft.)	529.6	529.35



**PROFILE GRADE**  
(Along @ Roadway)

**WATERWAY INFORMATION**

Drainage Area = 1.25 Sq. Mi. Low Grade Elev. 540.75 ft @ Sta. 245+60

Flood	Freq. Yr.	Q cfs	Opening Sq. Ft.		Nat. H.W.E.		Head - ft.		Headwater Elev. - ft.	
			Exlst.	Prop.	Exlst.	Prop.	Exlst.	Prop.	Exlst.	Prop.
Design	50	981	136.3	216.0	539.85	1.58	0.52	541.43	540.37	
Overtopping	90	1128	138.4	216.0	540.11	2.13	0.25	542.24	540.36	
Base	100	1157	138.4	216.0	540.16	2.26	0.99	542.42	541.15	
Max. Calc.	500	1593	138.4	216.0	540.38	5.05	5.05	545.43	545.43	

**LOADING HS 20-44**  
 Allow 50 Lb./Sq. Ft. for future wearing surface.

**DESIGN SPECIFICATIONS**

AASHTO 2002

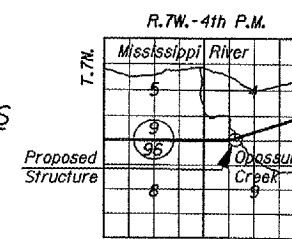
**DESIGN STRESSES**

FIELD UNITS

$f_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinf.)

**APPROVED**  
 For Structural Adequacy Only

*Ralph E. Anderson (TSB)*  
 Engineer of Bridges & Structures



**LOCATION SKETCH**



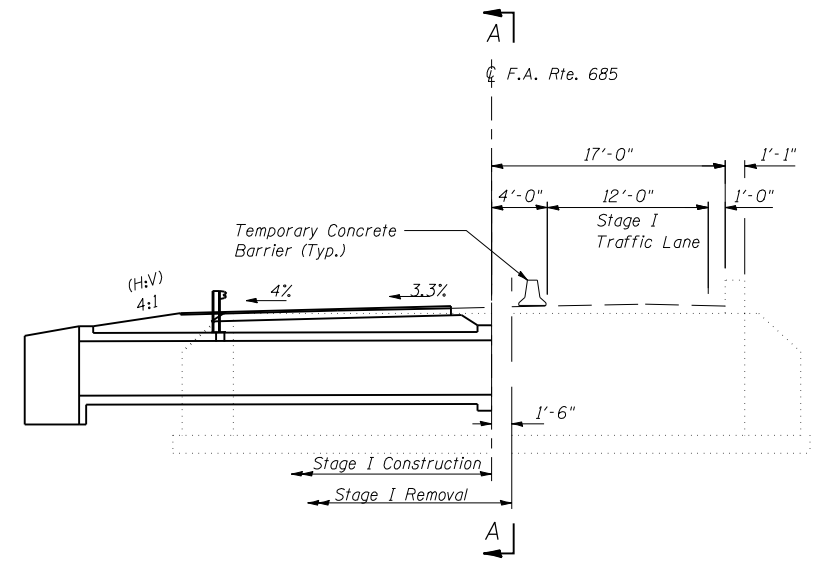
*M. J. Silvester* 8-24-07  
 MARTIN J. SILVESTER  
 STRUCTURAL ENGINEER  
 LICENSE EXP. DATE 11-30-08

REVISIONS	
NAME	DATE

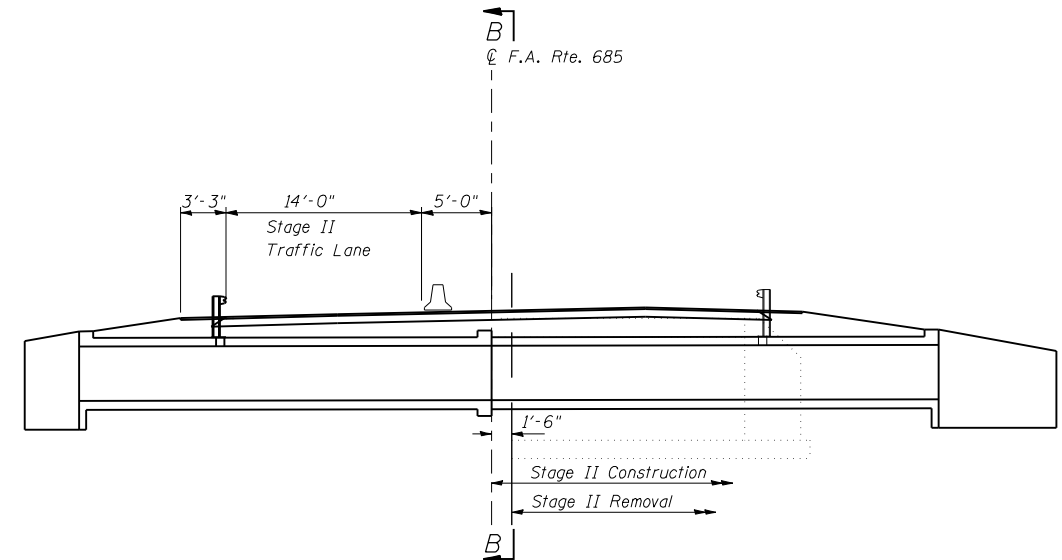
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 GENERAL PLAN  
 IL 9/96 OVER OPPOSUM CREEK  
 FAP 685 SECTION 113B-2  
 HANCOCK COUNTY  
 STA. 248+59.00 STR. No. 034-2519  
 SCALE: N.T.S. DRAWN BY SAE  
 DATE: AUG 2007 CHECKED BY BJF

**The Upchurch Group**  
 HILLSIDE, IL. (708) 449-2321  
 MATTOON, IL. (217) 285-3177

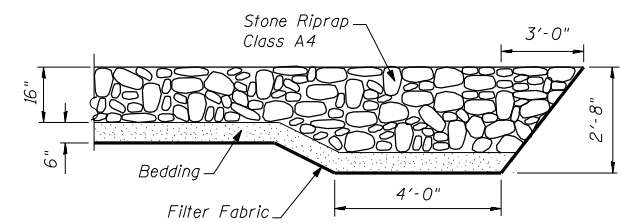
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	28
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



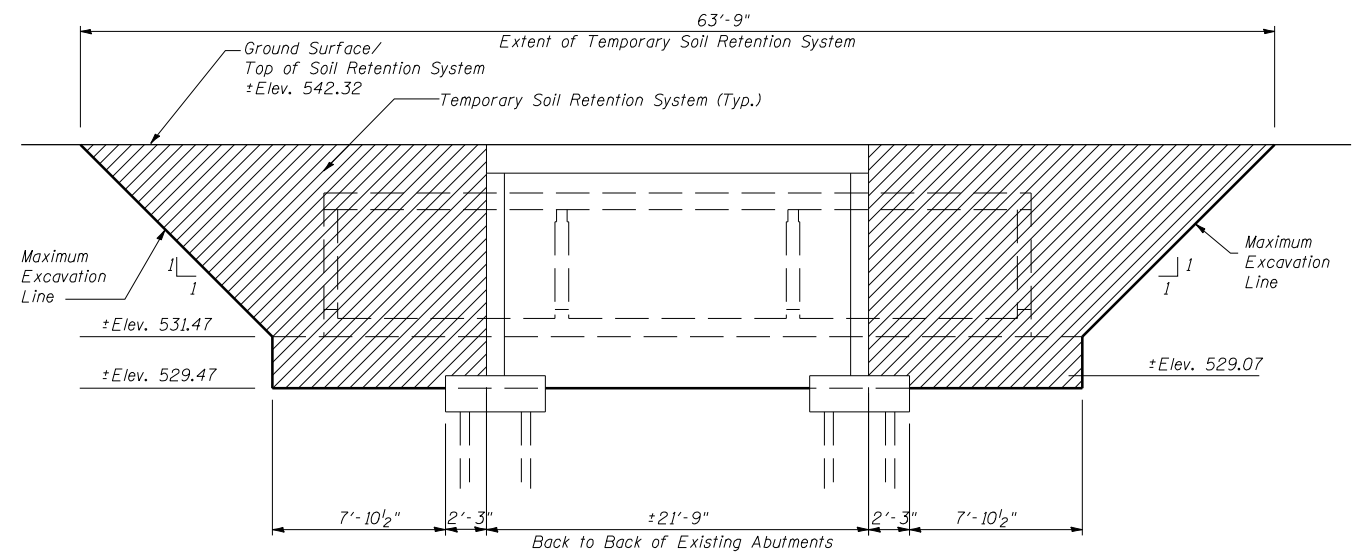
**STAGE 1 CONSTRUCTION**  
(Horiz. Dim. @ Rt. L's to C/F A Rte 685)



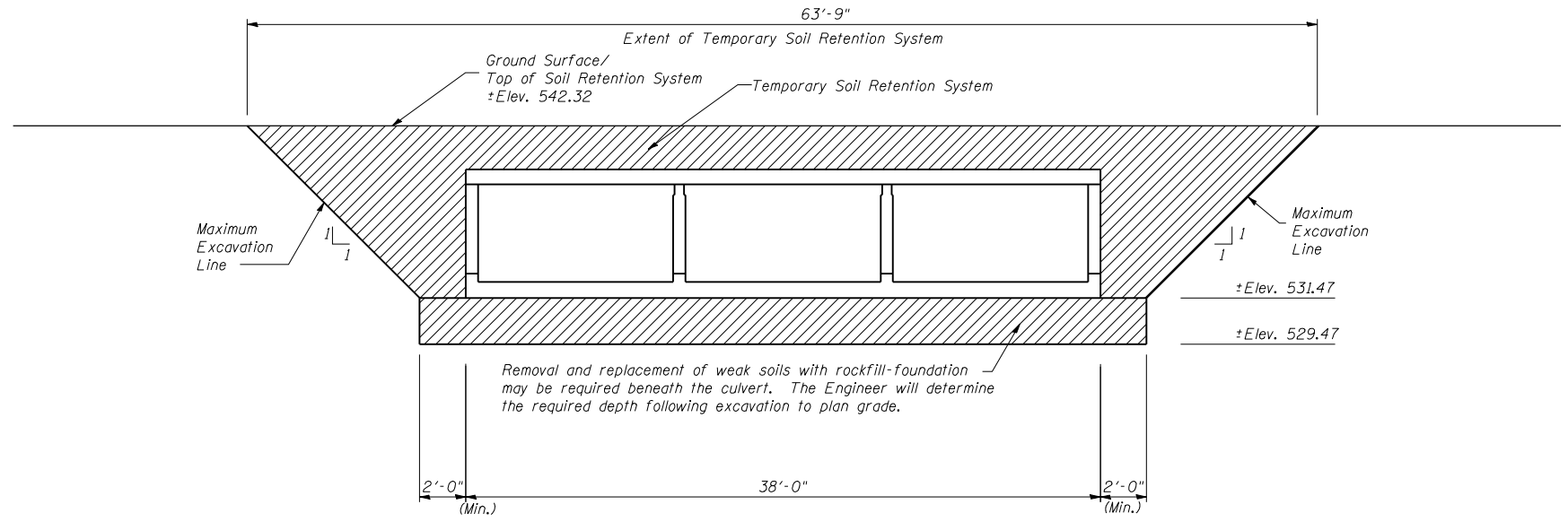
**STAGE 2 CONSTRUCTION**  
(Horiz. Dim. @ Rt. L's to C/F A Rte 685)



**DETAIL A**



**SECTION A-A**  
(Horiz. Dim. @ Rt. L's to C/F Culvert)



**SECTION B-B**  
(Horiz. Dim. @ Rt. L's to C/F Culvert)

Item	Unit	Qty
Temporary Soil Retention System	Sq. Ft.	565

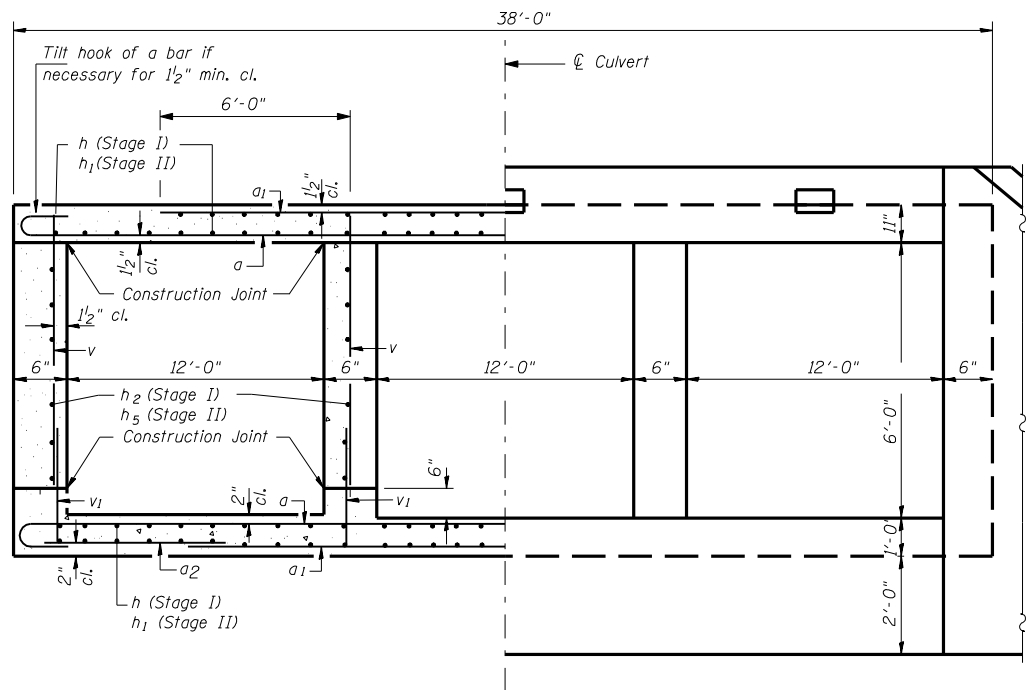
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**CONSTRUCTION STAGING**  
**IL 9/96 OVER OPPOSUM CREEK**  
**FAP 685 SECTION 113B-2**  
**HANCOCK COUNTY**  
**STA. 248+59.00 STR. No. 034-2519**  
 SCALE: N.T.S. DRAWN BY SAE  
 DATE: \$DATE CHECKED BY BJJ

**The Upchurch Group**  
 HILLSIDE, IL. (708) 449-2321  
 MATTOON, IL. (217) 285-3177

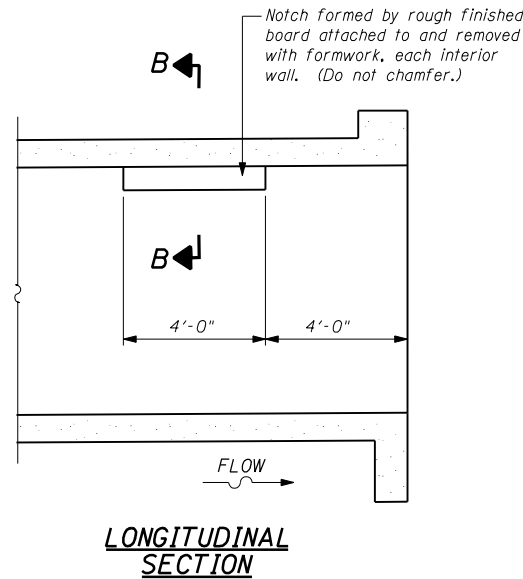


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	30
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
Sheet 4 of 8 Sheets				

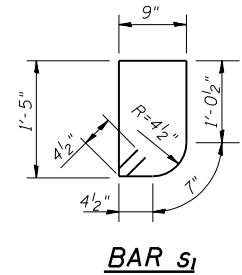
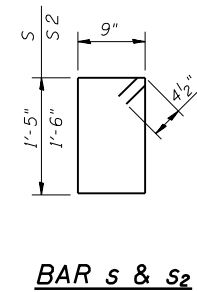


HALF SECTION THRU BARREL

HALF END ELEVATION

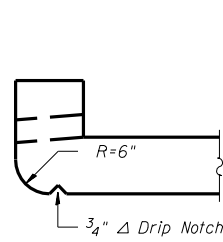


LONGITUDINAL SECTION

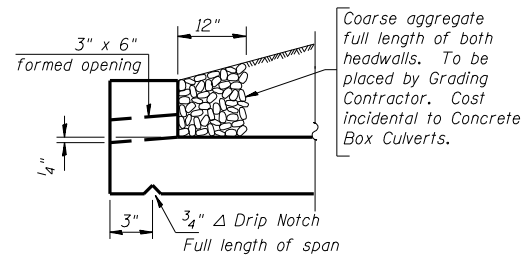


BILL OF MATERIAL

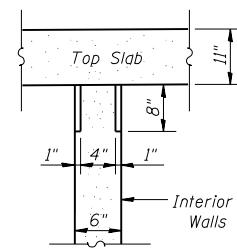
Bar	No.	Size	Length (ft)	Shape
a	288	#8	55'-2"	U
a <sub>1</sub>	300	#8	34'-8"	U
a <sub>2</sub>	150	#5	11'-3"	U
d	76	#4	4'-3"	L
h	272	#5	21'-10"	—
h <sub>1</sub>	272	#5	23'-7"	—
h <sub>2</sub>	48	#5	21'-10"	—
h <sub>3</sub>	28	#6	28'-0"	—
h <sub>4</sub>	24	#7	28'-5"	—
h <sub>5</sub>	48	#5	23'-7"	—
h <sub>6</sub>	20	#5	8'-0"	—
h <sub>7</sub>	20	#7	8'-0"	—
h <sub>8</sub>	20	#5	9'-0"	—
h <sub>9</sub>	20	#7	16'-0"	—
v	472	#4	6'-0"	—
v <sub>1</sub>	468	#4	2'-9"	—
v <sub>2</sub>	16	#4	10'-4"	—
s	104	#4	5'-1"	□
s <sub>1</sub>	52	#4	4'-11"	□
s <sub>2</sub>	52	#4	5'-3"	□
Item			Unit	Qty.
Concrete Box Culverts			yd <sup>3</sup>	301.2
Reinforcement Bars			lbs	94810



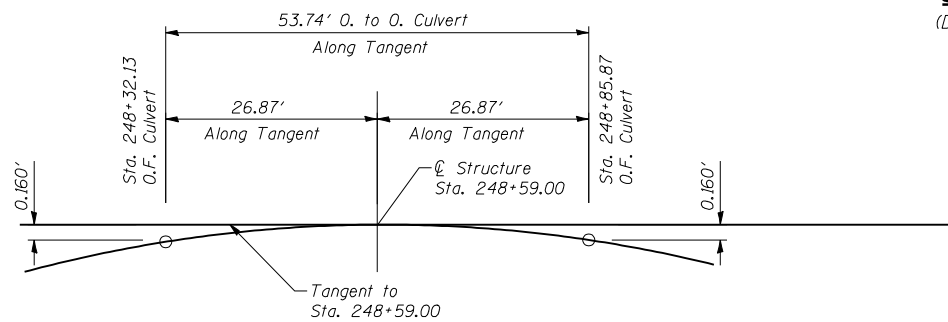
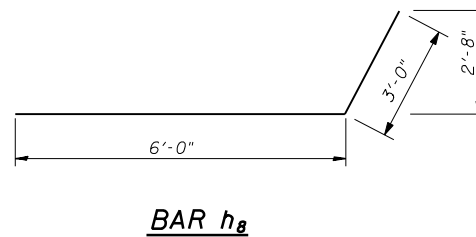
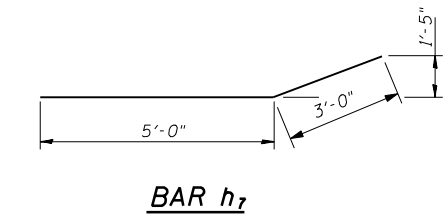
SECTION THRU HEADWALL  
At Upstream End Only



DRAIN DETAIL



SECTION B-B PHOEBE NESTING SITE DETAILS  
(Downstream End Only)



OFFSET SKETCH

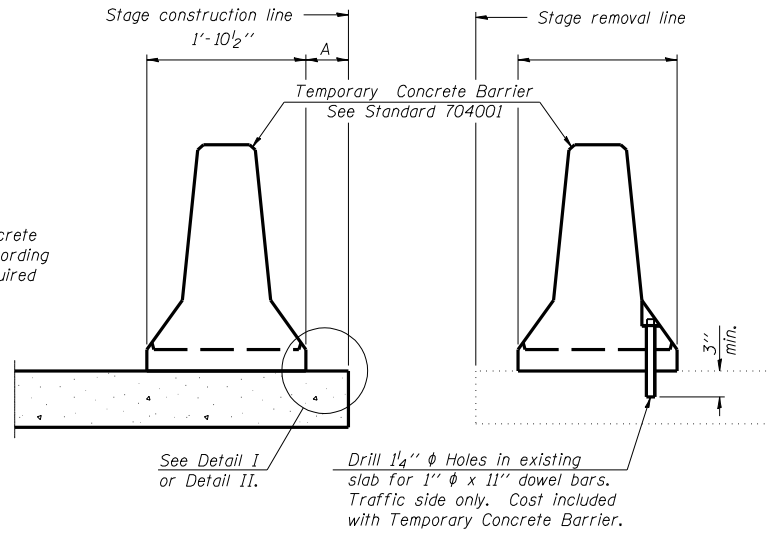
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**CULVERT DETAILS**  
 IL 9/96 OVER OPPOSUM CREEK  
 FAP 685 SECTION 113B-2  
 HANCOCK COUNTY  
 STA. 248+59.00 STR. No. 034-2519  
 SCALE: NTS DRAWN BY LP  
 DATE: \*DATE CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	31
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Sheet 5 of 8 Sheets

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".



NEW SLAB

EXISTING SLAB

SECTIONS THRU SLAB

NOTES

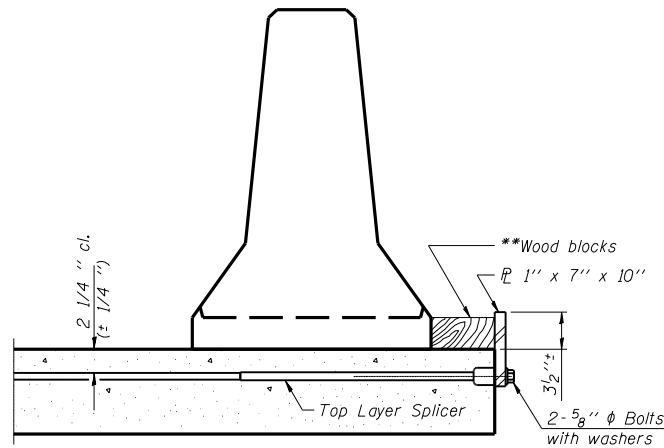
Detail I - With Bar Splicer or Couplers:

Connect one (1) 1"x7"x10" steel  $\bar{P}$  to the top layer of couplers with 2- $\frac{5}{8}$ "  $\phi$  bolts screwed to coupler at approximate  $\bar{C}$  of each barrier panel.

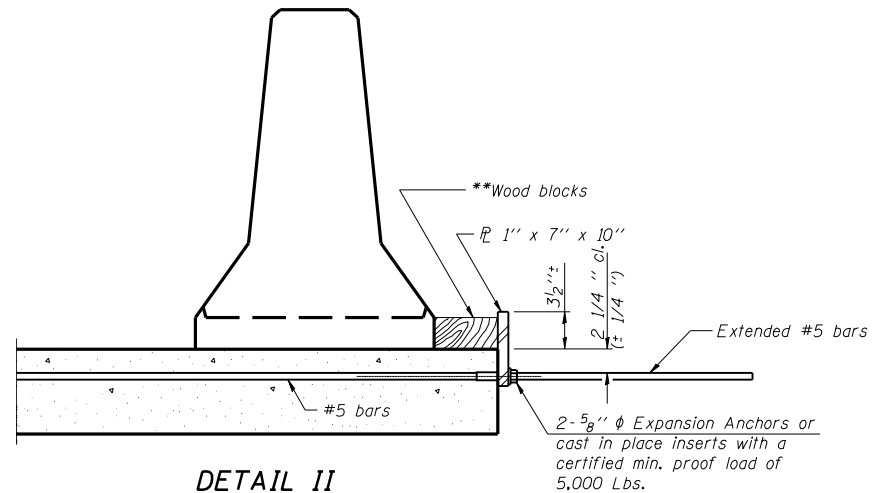
Detail II - With Extended Reinforcement Bars:

Connect one (1) 1"x7"x10" steel  $\bar{P}$  to the concrete slab with 2- $\frac{5}{8}$ "  $\phi$  Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate  $\bar{C}$  of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

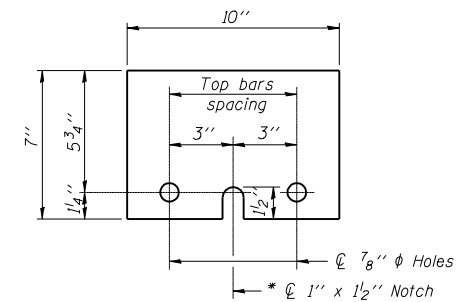


DETAIL I



DETAIL II

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



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

\* Required only with Detail II

REVISIONS	
NAME	DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	32
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

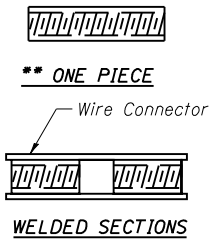
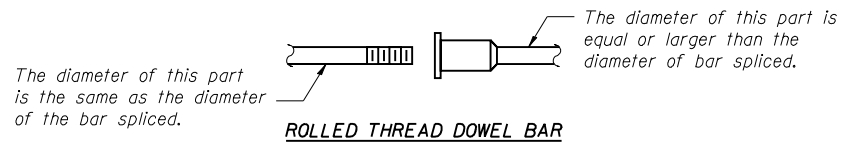
**NOTES**

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

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

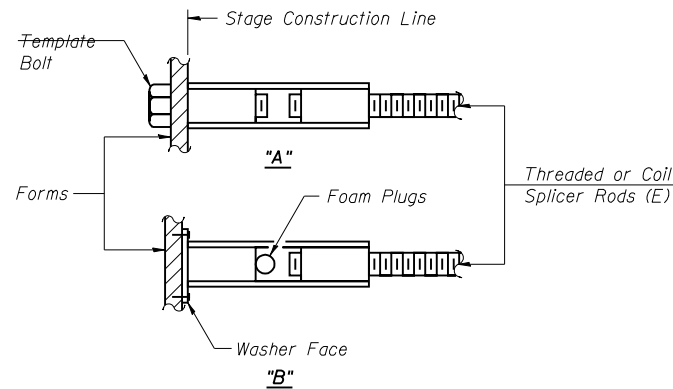
Where  $f_y$  = Yield strength of lapped reinforcement bars in ksi.  
 $A_t$  = Tensile stress area of lapped reinforcement bars.  
 \* = 28 day concrete

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



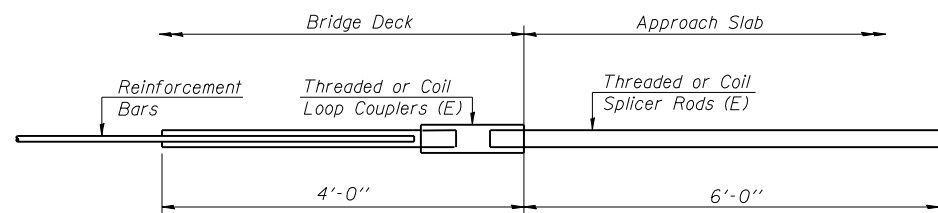
**BAR SPLICER ASSEMBLY ALTERNATIVES**

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



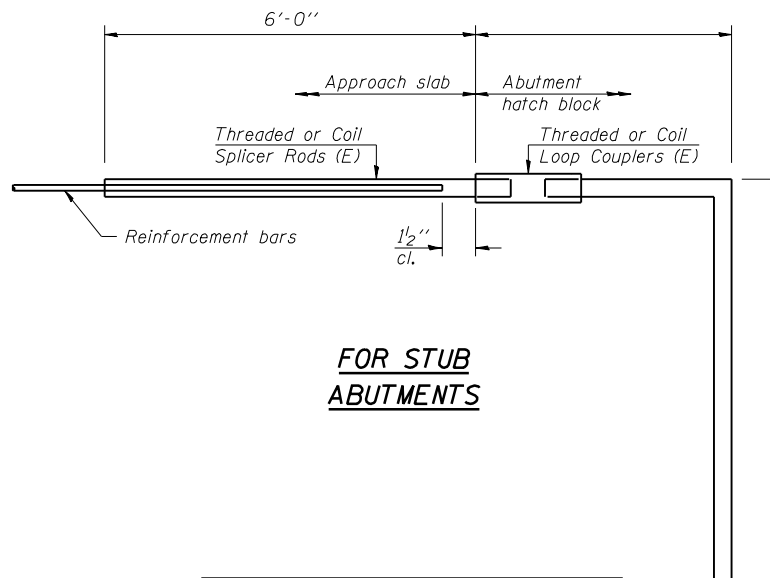
**INSTALLATION AND SETTING METHODS**

"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.



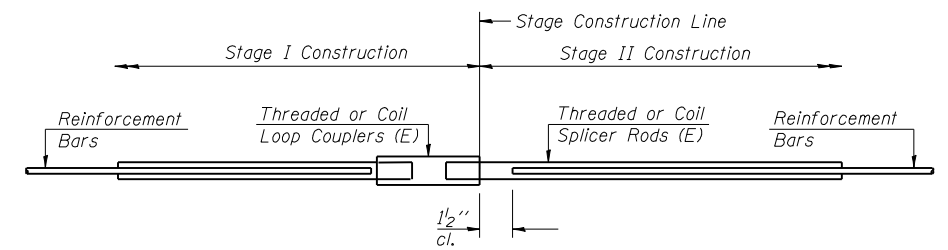
**FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

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



**FOR STUB ABUTMENTS**

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



**STANDARD**

Bar Size	No. Assemblies Required	Location
#5	60	Top Slab
#5	76	Bottom Slab
#5	24	Walls

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**BAR SPLICER**  
 IL 9/96 OVER OPPOSUM CREEK  
 FAP 685 SECTION 113B-2  
 HANCOCK COUNTY  
 STA. 248+59.00 STR. No. 034-2519  
 SCALE: DRAWN BY  
 DATE: \$DATE CHECKED BY







F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	35
STA. 245+50.00		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE

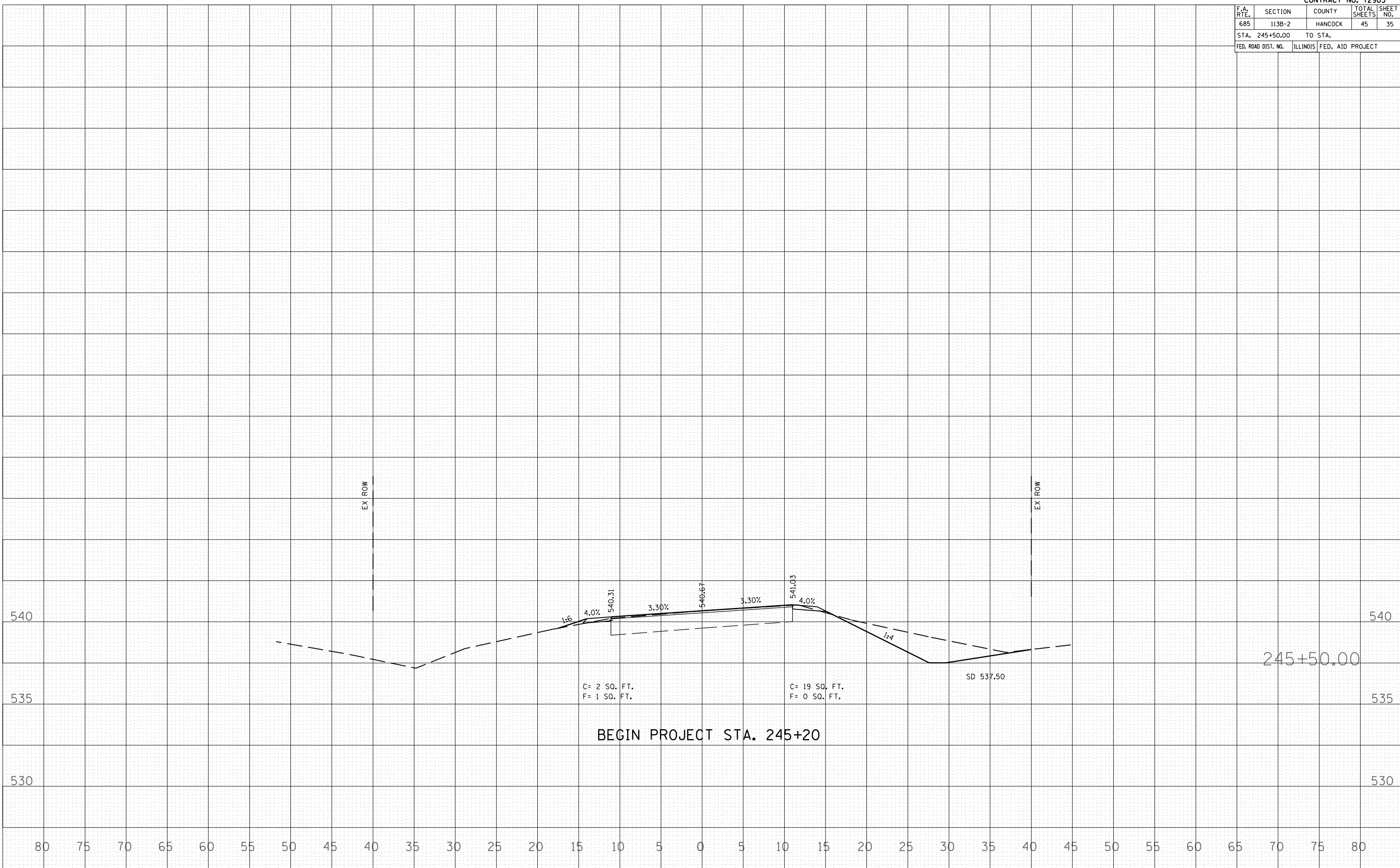
FINAL SURVEY	SURVEYED

BY	DATE

ORIGINAL SURVEY	SURVEYED

TUG PROJ. #16103007-11  
 PLOT DATE = Aug 27 2007 11:56:35AM  
 FILE NAME = c:\p\projects\6853584\upchurch\_11\6853584.dwg

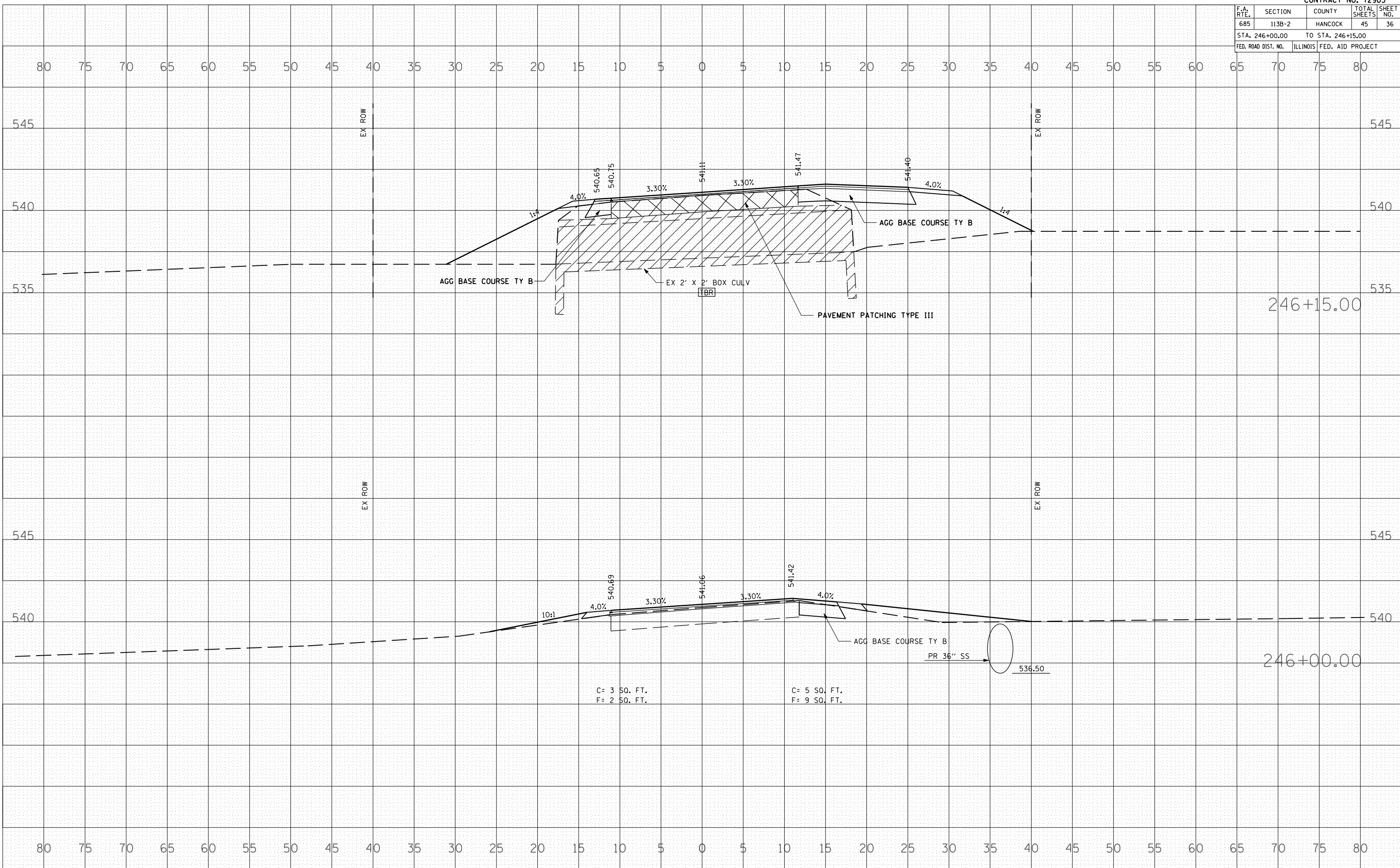


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	36
STA. 246+00.00		TO STA. 246+15.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE

BY	DATE

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 PLOT DATE: Aug 27 2007 11:56:36AM  
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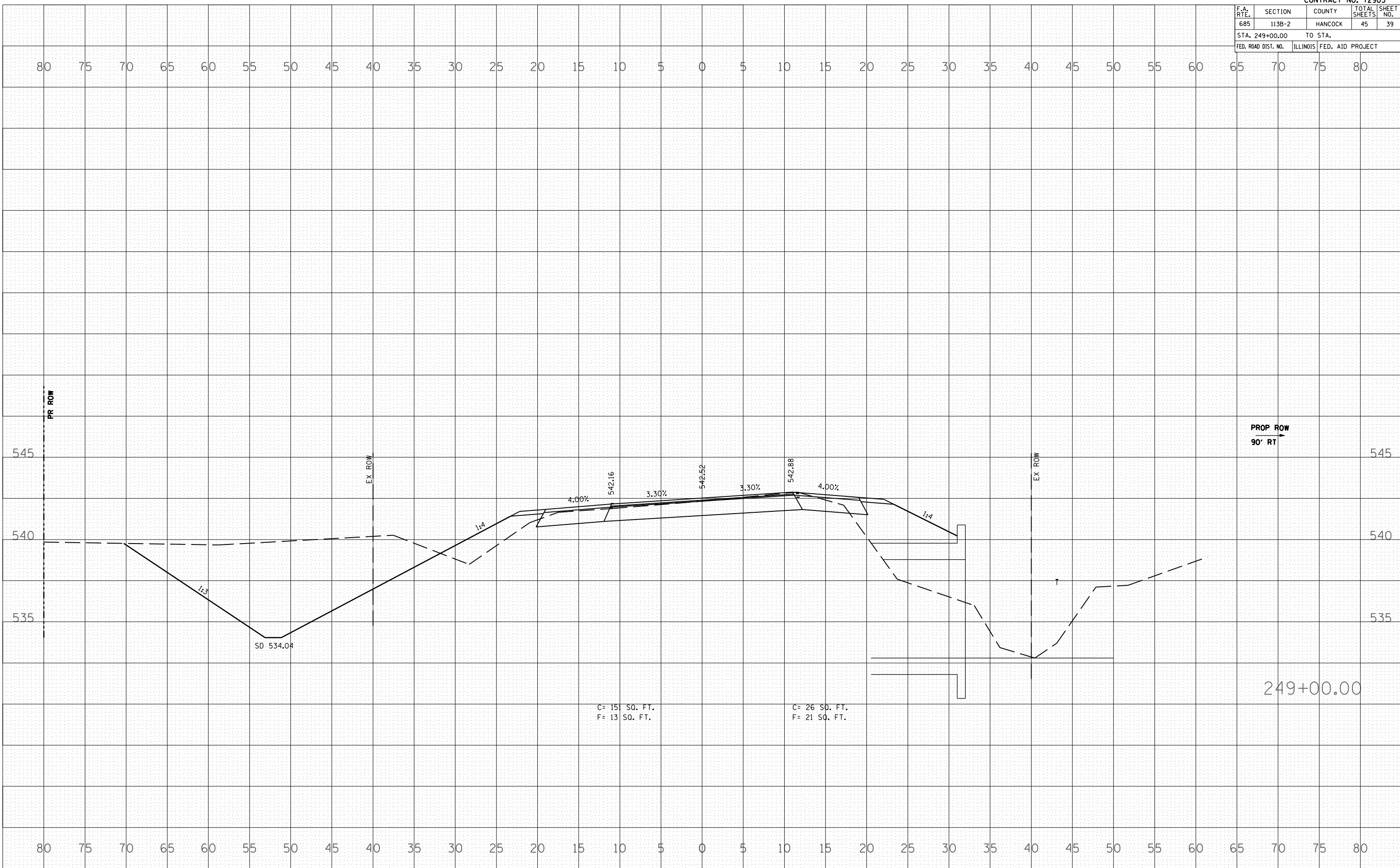


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	39
STA. 249+00.00		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE

BY	DATE

TUG PROJ. #16103007-11  
 PLOT DATE = Aug 27 2007 11:56:39AM  
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	41
STA. 251+70.00		TO STA. 251+70.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE

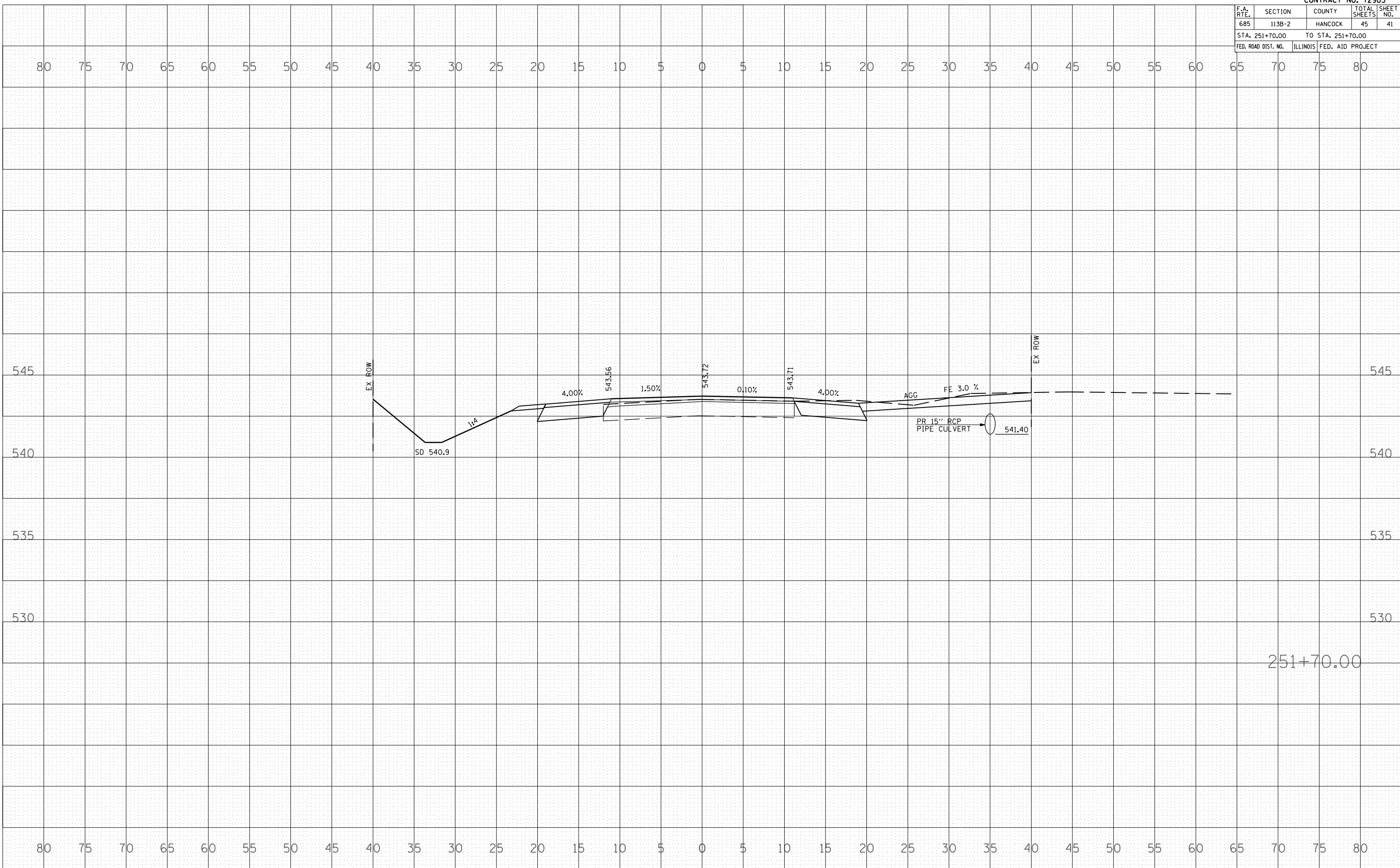
FINAL SURVEY	SURVEYED	PLOTTED	DATE

BY	DATE

ORIGINAL SURVEY	SURVEYED	PLOTTED	DATE

TUG PROJ. #16103007-11  
 PLOT DATE = Aug 27 2007 11:56:40 AM  
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	43
STA. 10+50		TO STA. 12+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE

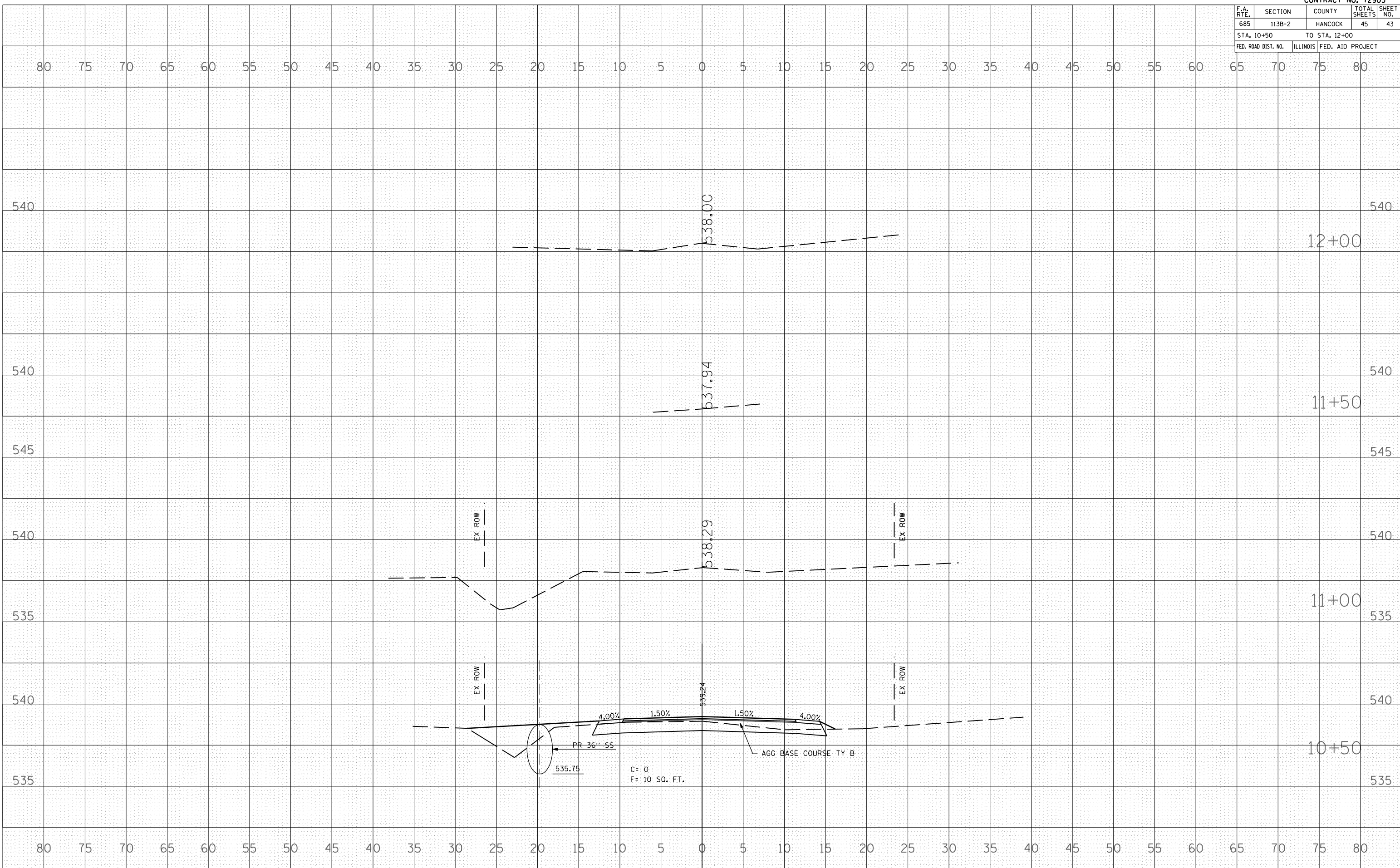
FINAL SURVEY	SURVEYED	PLOTTED	DATE	AREAS CHECKED

BY	DATE

ORIGINAL SURVEY	SURVEYED	PLOTTED	DATE	AREAS CHECKED

TUG PROJ: 16103007-11  
 PLOT DATE: Aug 27 2007 11:56:45AM  
 FILE NAME: c:\p\projects\16103007\upchurch\_11\16103007.dwg



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	44
STA. 20+50		TO STA. 22+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE

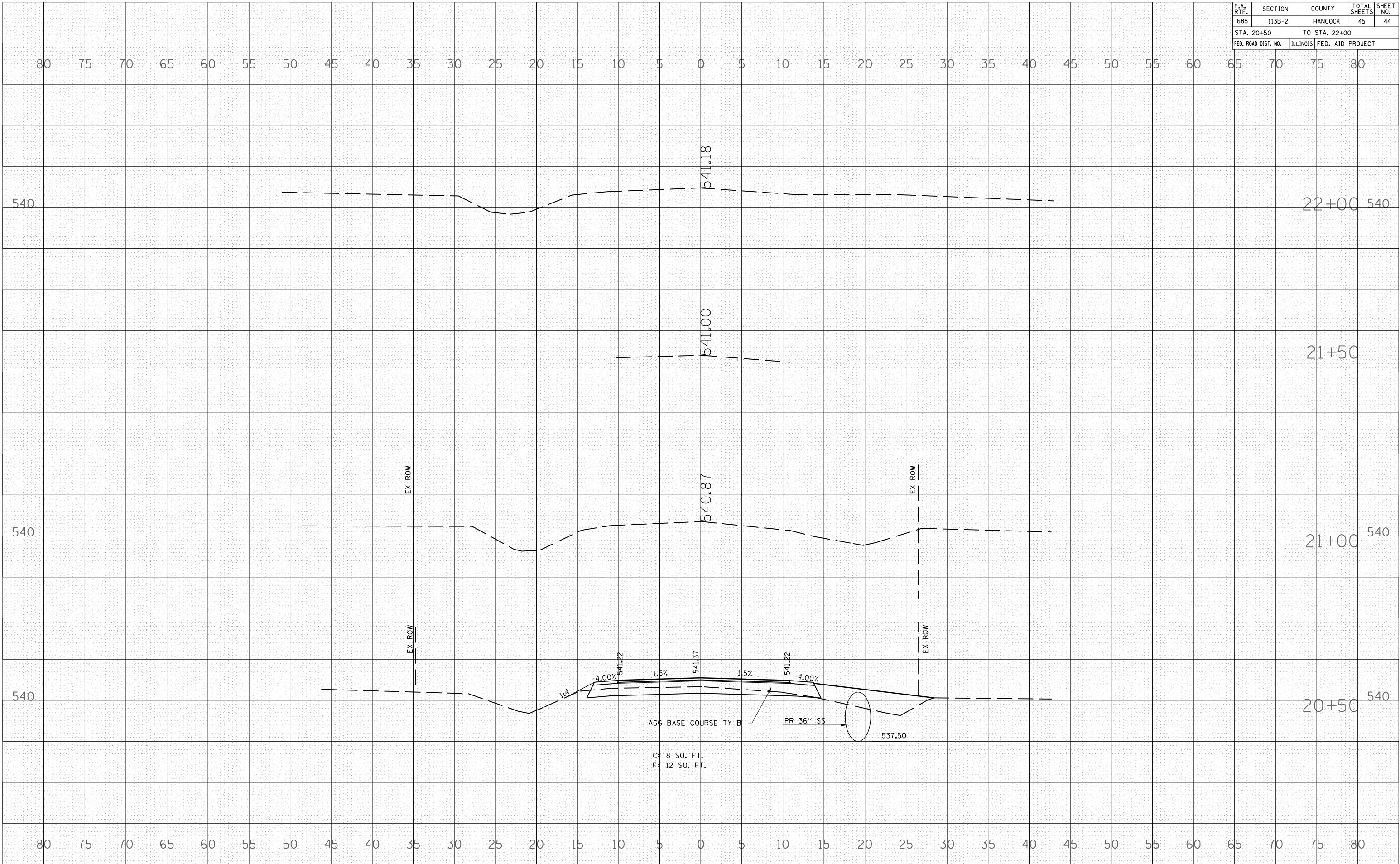
FINAL SURVEY	SURVEYED	PLOTTED	DATE

BY	DATE

ORIGINAL SURVEY	SURVEYED	PLOTTED	DATE

TUG PROJ: 16103007-11  
 PLOT DATE: Aug 27 2007 11:56:50AM  
 FILE NAME: c:\projects\6853581\upchurch\_11603007.dwg



AGG BASE COURSE TY B  
 C= 8 SO. FT.  
 F= 12 SO. FT.  
 PR 36" SS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-2	HANCOCK	45	45
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

BY	DATE

BY	DATE

TUG PROJ: 16103007-11  
 PLOT DATE: Aug 27 2007 11:06:05 AM  
 FILE NAME: c:\projects\685384\upchurch\116103007\p1.dwg

