

# STATE OF ILLINOIS

## DEPARTMENT OF TRANSPORTATION

### DIVISION OF HIGHWAYS

# PROPOSED HIGHWAY PLANS

FAP ROUTE 881 (US 45)  
SECTION: D9 SAFETY FY08-1  
PROJECT: ACHSIP-0881(015)

SALINE, WILLIAMSON & JOHNSON COUNTIES  
C-99-018-08

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	D9 SAFETY FY08-1	*	64	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 78038		
* SALINE, WILLIAMSON & JOHNSON				

FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3-4

#### STATION EQUATIONS

STA 338+72.3 @ BK = STA 338+77.5 @ AH  
STA 403+14.2 @ BK = STA 403+11.8 @ AH  
STA 422+00.0 @ BK = STA 422+03.4 @ AH  
STA 521+27.0 @ BK = STA 575+57.0 @ AH  
STA 613+66.6 @ BK = STA 613+62.4 @ AH  
STA 635+00.0 @ BK = STA 635+20.2 @ AH  
STA 701+52.3 @ BK = STA 701+00.0 @ AH  
STA 758+98.4 @ BK = STA 758+97.7 @ AH  
STA 838+00.0 @ BK = STA 838+28.2 @ AH  
STA 875+23.7 @ BK = STA 875+00.0 @ AH

#### TRAFFIC DATA

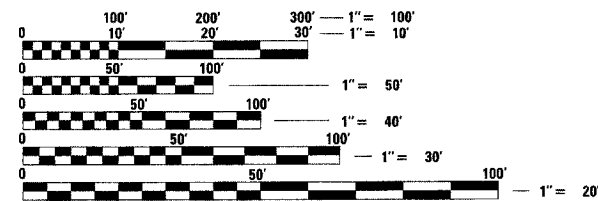
HARRISBURG TO CARRIER MILLS  
2005 ADT = 6,800 WITH 8.8% TRUCKS  
2015 ADT = 9,708 WITH 44% TRUCKS

CARRIER MILLS TO STONEFORT  
2005 ADT = 2,050 WITH 12% TRUCKS  
2015 ADT = 9,708 WITH 44% TRUCKS

STONEFORT TO NEW BURNSIDE  
2005 ADT = 1,350 WITH 14% TRUCKS  
2005 ADT = 9,708 WITH 44% TRUCKS

#### TOWNSHIPS

HARRISBURG  
CARRIER MILLS  
STONEFORT  
BURNSIDE

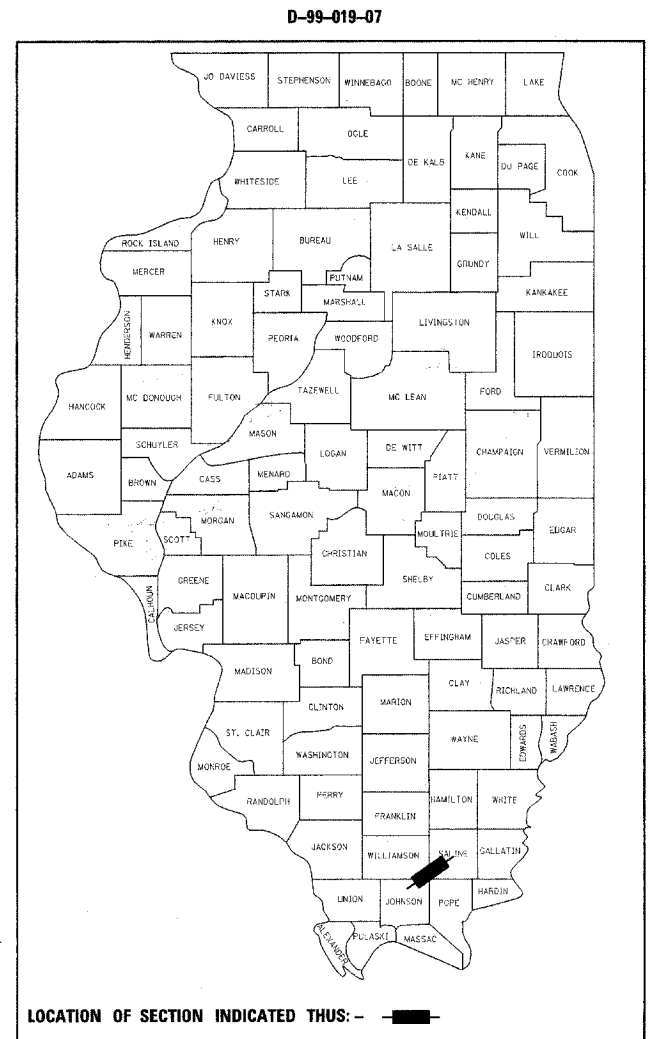
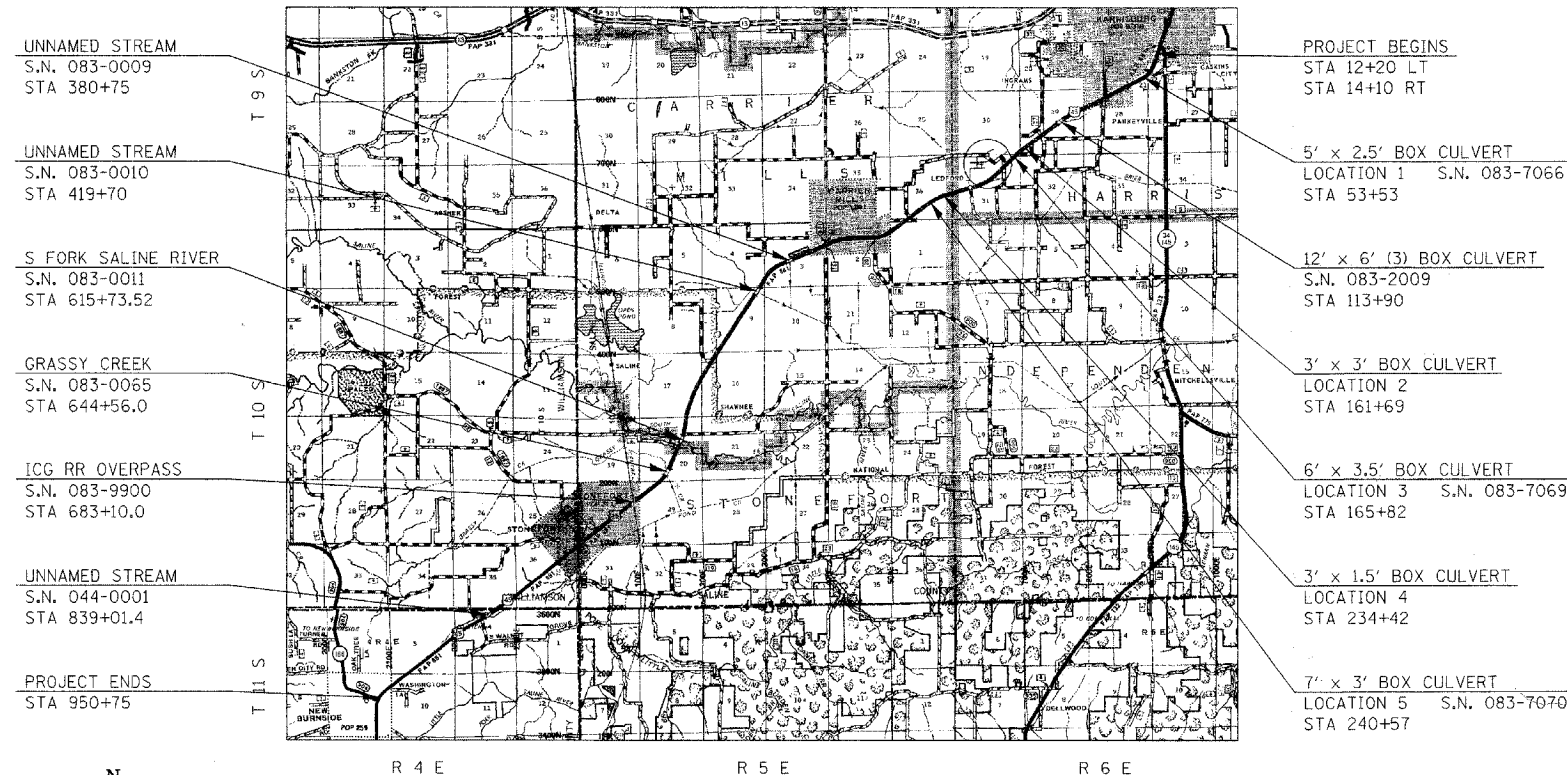


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: CHARLES STEIN  
DESIGNER: HOWARD THOMAS

CONTRACT NO. 78038



LOCATION OF SECTION INDICATED THUS: — ■ —

NOTE: WHEREVER IN THESE PLANS REFERENCE IS MADE TO "VARIOUS COUNTIES" IT SHALL MEAN "SALINE, WILLIAMSON & JOHNSON COUNTIES"

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED March 14, 2008  
Mar. C. Lami  
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

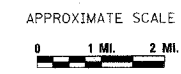
May 9, 2008  
Eric E. Narni  
ENGINEER OF DESIGN AND ENVIRONMENT

May 9, 2008  
Christine M. Reed  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

GROSS LENGTH OF PROJECT = 88,451 FT = 16.75 MILES (LEFT)  
88,261 FT = 16.72 MILES (RIGHT)

NET LENGTH OF PROJECT = 76,952 FT = 14.57 MILES (LEFT)  
78,248 FT = 14.82 MILES (RIGHT)



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, AND MIXTURE REQUIREMENTS
3 - 4	SUMMARY OF QUANTITIES
5 - 6	TYPICAL SECTIONS
7 - 12	SCHEDULES OF QUANTITIES
13 - 17	PLAN SHEETS
18 - 21	RIPRAP AND EROSION CONTROL PLAN SHEETS
22 - 23	TRAFFIC CONTROL PLAN S.N. 083-0009 AND S.N. 083-0010
24	DETAIL: SHOULDER RUMBLE STRIPS
25	DETAILS: STEEL BRIDGE RAIL
26 - 27	DETAILS: PRECAST CONCRETE BOX CULVERTS AND END SECTIONS
28 - 29	DETAILS: CAST-IN-PLACE BOX CULVERT HEADWALLS
30 - 64	CROSS SECTIONS HIGHWAY STANDARDS

MIXTURE REQUIREMENTS

LOCATION(S):	HOT-MIX ASPHALT SHOULDERS
MIXTURE USE(S):	HOT-MIX ASPHALT SHOULDERS
AC/PG:	PG58-22
RAP % (MAX):	50
DESIGN AIR VOIDS:	2.0 %, 30 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	HMA SHOULDERS
FRICTION AGGREGATE:	NONE

GENERAL NOTES

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL AGGREGATE	RIPRAP
2.05 TONS/CU. YD.	1.50 TONS/CU. YD.

THE QUANTITIES SHOWN IN THE PLANS FOR EROSION CONTROL ITEMS ARE ESTIMATES. THE ACTUAL AMOUNTS USED AND LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.

A QUANTITY OF PAINT PAVEMENT MARKING - LINE 4" HAS BEEN INCLUDED IN THE PLANS. THIS SHALL BE USED RESTRIPE THE EDGELINES WITHIN THE PROJECT LIMITS THAT MAY BE COVERED WITH ASPHALT DURING HMA SHOULDER INSTALLATION, OR AS DIRECTED BY THE ENGINEER.

COMMITMENTS

NONE

HIGHWAY STANDARDS

000001-05	635006-02
001001-01	635011-01
280001-04	701001-01
442201-03	701006-02
509001	701311-02
	701326-02
	<b>701901</b>
	704001-04
630001-07	
631011-04	BLR 21-7
631032-03	BLR 22-5
631033-02	
631041-01	

Prepared By: Joe J. Daniewicz  
DISTRICT STUDIES & PLANS ENGINEER

Examined By: James Davis Emery  
DISTRICT LAND ACQUISITION ENGINEER

Examined By: Carrie Nelson  
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: Wesley H. Lamont  
DISTRICT OPERATIONS ENGINEER

Examined By: Joseph L. Linn  
DISTRICT CONSTRUCTION ENGINEER

Examined By: Bruce Seibles  
DISTRICT MATERIALS ENGINEER

Examined By: Jim Swathlow  
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: Dan L. Clayton  
ASSISTANT REGIONAL ENGINEER

Approved By: Man C. Harris  
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

DATE: March 14, 2008

FILE NAME =  
c:\projects\d901907\d901907ms.m32

USER NAME = thomashf  
PLOT SCALE = 50,0000" / IN.  
PLOT DATE = 3/14/2008

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

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, GENERAL NOTES, STANDARDS & MIX REQUIREMENTS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	D9 SAFETY FY08-1	VARIOUS	64	2
CONTRACT NO. 78038				
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				

## SUMMARY OF QUANTITIES

90% FEDERAL / 10% STATE CONSTRUCTION TYPE CODE - SFTY - 2A							
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	SALINE COUNTY		WILLIAMSON COUNTY	JOHNSON COUNTY
				URBAN	RURAL		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	4	2			2
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NONREDIRECTIVE), TEST LEVEL 3	EACH	4		4		
Z0030350	IMPACT ATTENUATORS, RELOCATE (NONREDIRECTIVE), TEST LEVEL 3	EACH	4		4		
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	97	10	87		
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	413	77	257		79
20200100	EARTH EXCAVATION	CU YD	7,515	777	4685	834	1219
20900110	POROUS GRANULAR BACKFILL	CU YD	204	30	174		
25000200	SEEDING, CLASS 2	ACRE	0.98	0.02	0.61		0.35
25000350	SEEDING, CLASS 7	ACRE	0.98	0.02	0.61		0.35
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	127.1	2.94	78.36		45.80
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	88	2.04	54.26		31.70
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	88	2.04	54.26		31.70
25000700	AGRICULTURAL GROUND LIMESTONE	TON	2	0.04	1.26		0.70
25100630	EROSION CONTROL BLANKET	SQ YD	3,959	66	2409		1484
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	200	5	124		71
28000300	TEMPORARY DITCH CHECKS	EACH	2		2.00		
28000720	MULCH, METHOD 2	ACRE	0.98	0.02	0.61		0.35
28100107	STONE RIPRAP, CLASS A4	SQ YD	397		397		
28200200	FILTER FABRIC	SQ YD	397		397		
40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	42		42		
44000100	PAVEMENT REMOVAL	SQ YD	232	27	205		
44000400	GUTTER REMOVAL	FOOT	1,595		475		1120
44201345	CLASS C PATCHES, TYPE III, 9 INCH	SQ YD	24		24		
44201347	CLASS C PATCHES, TYPE IV, 9 INCH	SQ YD	147	27	120		
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	31,347	3490	18893	3753	5211
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	6	1	5		
50104700	HANDRAIL CONCRETE REMOVAL	FOOT	201		201		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3140		3140		

FILE NAME = c:\work\stats\0921907\d921907sch.s32  
 USER NAME = thomasrf  
 PLCT SCALE = 50,0000 / IN  
 PLCT DATE = 3/18/2008

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

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: NONE    SHEET NO. 1 OF 2 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	TOTAL SHEET NO.
881	D9 SAFETY FY08-1	VARIOUS	64	3
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 78038	

*Rev.*

## SUMMARY OF QUANTITIES

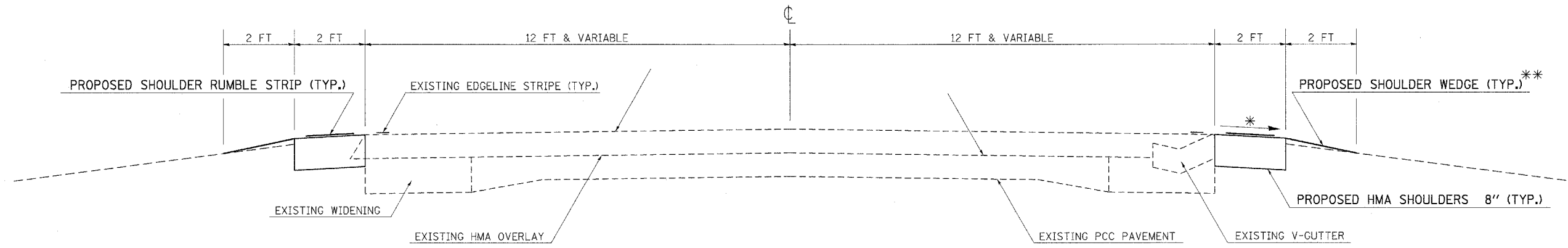
CODE NUMBER	ITEM DESCRIPTION	UNIT	90% FEDERAL / 10% STATE				
			TOTAL QUANTITY	CONSTRUCTION TYPE CODE - SFTY - 2A		WILLIAMSON COUNTY	JOHNSON COUNTY
				SALINE COUNTY URBAN	SALINE COUNTY RURAL		
50900200	STEEL RAILING, TYPE 2399	FOOT	201		201		
50901705	TUBULAR THRIE BEAM RETROFIT RAIL FOR BRIDGES	FOOT	640		440		200
54001000	BOX CULVERT END SECTIONS	EACH	8	2	6		
54003000	CONCRETE BOX CULVERTS	CU YD	33		33		
54020402	PRECAST CONCRETE BOX CULVERT 4' X 2' (M273)	FOOT	34		34		
54020503	PRECAST CONCRETE BOX CULVERT 5' X 3' (M273)	FOOT	158	36	122		
54020504	PRECAST CONCRETE BOX CULVERT 5' X 4' (M273)	FOOT	64		64		
54020604	PRECAST CONCRETE BOX CULVERT 6' X 4' (M273)	FOOT	38		38		
63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	1,775		1400		375
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2		2		
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	8		8		
63100089	TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	2		2		
63100101	TRAFFIC BARRIER TERMINAL, TYPE 9	EACH	8		4		4
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	20	2	14		4
63200310	GUARDRAIL REMOVAL	FOOT	863	50	442		371
64200105	SHOULDER RUMBLE STRIP	FOOT	150,025	15705	94001	16647	23672
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	0.30	1.98	0.30	0.42
67100100	MOBILIZATION	L SUM	1	0.10	0.66	0.10	0.14
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.10	0.66	0.10	0.14
70101805	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	2		2		
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	0.10	0.66	0.10	0.14
70101835	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 22	L SUM	1	0.20	0.80		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	320		320		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	320		320		
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	142,175	15705	85996	16887	23587
78200420	GUARDRAIL MARKERS, TYPE B	EACH	32		26		6
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	20	2	14		4

\* SPECIALTY ITEMS

FILE NAME c:\projects\901907\901907.sohm32	USER NAME thumashp	DESIGNED ---	REVISED ---	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE. 881	SECTION D9 SAFETY FY08-1	COUNTY VARIOUS	TOTAL SHEETS 64	SHEET NO. 4
PLOT SCALE = 1/8" = 1' / IN.		CHECKED ---	REVISED ---	SCALE: NONE   SHEET NO. 2 OF 2 SHEETS   STA. TO STA.		CONTRACT NO. 78038				
PLOT DATE = 3/15/2006		DATE ---	REVISED ---	FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT						

TYPICAL SECTION #1

HMA SHOULDERS  
WITH RUMBLE STRIP



TO BE USED LEFT:

STA 12+20 TO STA 950+00

LEFT OMISSIONS:

STA 75+50 TO STA 77+50	STA 418+50 TO STA 420+90
STA 93+75 TO STA 106+75	STA 614+10 TO STA 618+10
STA 213+50 TO STA 228+00	STA 641+00 TO STA 649+15
STA 305+00 TO STA 356+75	STA 728+15 TO STA 746+90
STA 379+50 TO STA 381+80	STA 837+10 TO STA 840+38

STATION EQUATIONS

STA 403+14.2 BK = STA 403+11.8 AH
STA 422+00.0 BK = STA 422+03.4 AH
STA 521+27.0 BK = STA 575+57.0 AH
STA 613+66.6 BK = STA 613+62.4 AH
STA 635+00.0 BK = STA 635+20.2 AH
STA 701+52.3 BK = STA 701+00.0 AH
STA 758+98.4 BK = STA 758+97.7 AH
STA 875+23.7 BK = STA 875+00.0 AH

TO BE USED RIGHT:

STA 14+10 TO STA 950+75

RIGHT OMISSIONS:

STA 75+00 TO STA 77+15	STA 418+50 TO STA 420+90
STA 93+75 TO STA 99+50	STA 613+20 TO STA 617+40
STA 213+50 TO STA 225+30	STA 640+00 TO STA 647+80
STA 298+00 TO STA 359+50	STA 739+95 TO STA 743+25
STA 379+15 TO STA 381+80	STA 837+35 TO STA 840+43

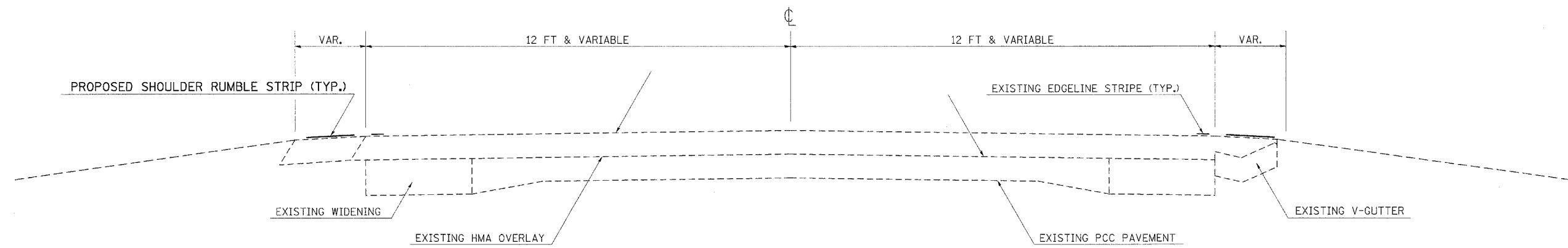
NOTES:

\* 4% PROPOSED SHOULDER SLOPE

\*\* TO BE CONSTRUCTED FROM EXCAVATED SHOULDER MATERIAL WHERE NECESSARY TO TRANSITION TO EXISTING GROUND.

TYPICAL SECTION #2

MILLED RUMBLE STRIP



TO BE USED LEFT:

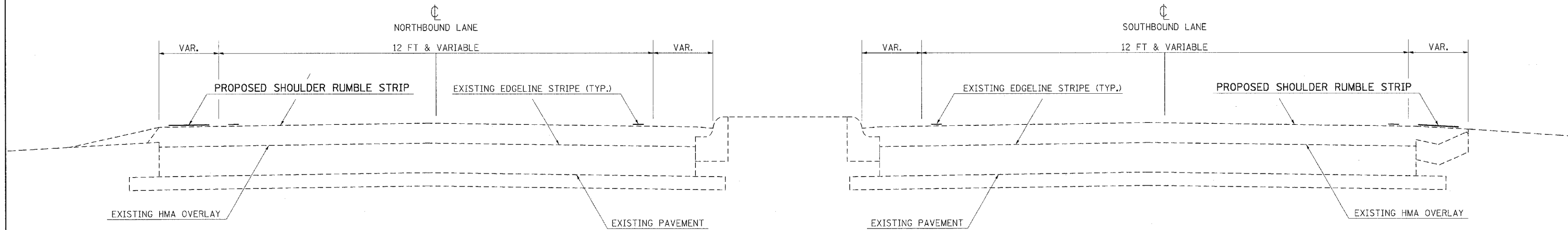
STA 166+50 TO STA 213+50  
STA 950+00 TO STA 953+40

TO BE USED RIGHT:

STA 166+00 TO STA 213+50  
STA 672+28 TO STA 674+00  
STA 950+75 TO STA 953+40

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	PLOT SCALE = 50,0000' / IN.	CHECKED - ---	REVISED - ---					CONTRACT NO. 78038				
	PLOT DATE = 3/18/2008	DATE - ---	REVISED - ---					FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				
								SCALE: NONE	SHEET NO. 1 OF 2 SHEETS	STA. _____ TO STA. _____		

**TYPICAL SECTION #3**  
MILLED RUMBLE STRIP



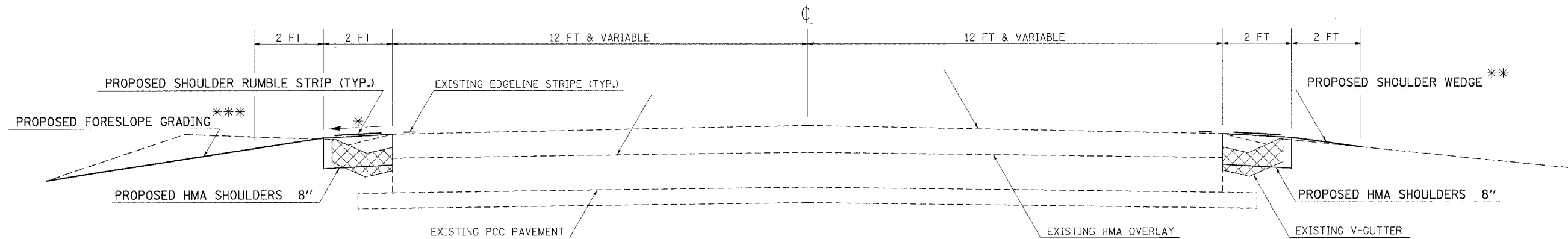
TO BE USED LEFT:  
STA 678+00 TO STA 691+50

LEFT OMISSIONS:  
STA 682+50 TO STA 685+50

TO BE USED RIGHT:  
STA 674+00 TO STA 686+50

RIGHT OMISSIONS:  
STA 680+50 TO STA 683+50


**TYPICAL SECTION #4**  
V-GUTTER REMOVAL  
WITH RUMBLE STRIP



TO BE USED LEFT:  
STA 665+77 TO STA 670+52  
STA 857+60 TO STA 868+80

**NOTES:**

- \* 4% PROPOSED SHOULDER SLOPE
- \*\* TO BE CONSTRUCTED FROM EXCAVATED SHOULDER MATERIAL WHERE NECESSARY TO TRANSITION TO EXISTING GROUND.
- \*\*\* SEE CROSS SECTIONS FOR PROPOSED FORESLOPE GRADING INFORMATION.

 PROPOSED REMOVAL OF EXISTING V-GUTTER

FILE NAME = c:\projects\4901927\4901907ms.m32	USER NAME = thomashf	DESIGNED - ---	REVISED - ---	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS</b>			F.A.P. RTE. 881	SECTION 09 SAFETY FY08-1	COUNTY VARIOUS	TOTAL SHEETS 64	SHEET NO. 6
PLT SCALE = 50.0000' / IN.	CHECKED - ---	REVISED - ---	REVISED - ---		SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA. _____ TO STA. _____	FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				
PLT DATE = 3/18/2008	DATE - ---	REVISED - ---	REVISED - ---		CONTRACT NO. 78038							

# SAFETY SHOULDER SCHEDULE

STATION TO STATION LEFT	GUTTER REMOVAL	EARTH EXCAVATION	HOT-MIX ASPHALT SHOULDERS	SHOULDER RUMBLE STRIP	COMMENTS
	FEET	CU YD	SQ YD	FOOT	
<b>SALINE COUNTY</b>					
<b>URBAN</b>					
12+20 TO 75+50		313	1407	6330	
75+50 TO 77+50					FEAZEL ROAD
77+50 TO 93+75		80	361	1625	
93+75 TO 106+75					TURN LANE
<b>RURAL</b>					
106+75 TO 166+50		295	1328	5975	
166+50 TO 213+50				4700	
213+50 TO 228+00					LEDFORD
228+00 TO 305+00		380	1711	7700	
305+00 TO 338+72.3					
338+72.3 TO 338+77.5					CARRIER MILLS
338+77.5 TO 356+75					
356+75 TO 379+50		112	506	2275	
379+50 TO 381+80					083-0009
381+80 TO 403+14.2		105	474	2134	
403+14.2 TO 403+11.8					STATION EQ
403+11.8 TO 418+50		76	342	1538	
418+50 TO 420+90					083-0010
420+90 TO 422+00		5	24	110	
422+00 TO 422+03.4					STATION EQ
422+03.4 TO 521+27		490	2205	9924	
521+27 TO 575+57					STATION EQ
575+57 TO 613+66.6		188	847	3810	
613+66.6 TO 613+62.4					STATION EQ
613+62.4 TO 614+10		2	11	48	
614+10 TO 618+10					083-0011
618+10 TO 635+00		83	376	1690	
635+00 TO 635+20.2					STATION EQ
635+20.2 TO 641+00		29	129	580	
641+00 TO 649+15					083-0065
649+15 TO 665+77		82	369	1662	
665+77 TO 670+52	475		106	475	
670+52 TO 678+00		37	166	748	
678+00 TO 682+50				450	
682+50 TO 685+50					083-9900
685+50 TO 691+50				600	
691+50 TO 701+52.3		49	223	1002	
701+52.3 TO 701+00					STATION EQ
701+00 TO 728+15		134	603	2715	
728+15 TO 743+25					STONEFORT
<b>DEDUCTIONS</b>		21	93	2000	
<b>SUBTOTALS</b>		475	2442	11093	54090
<b>WILLIAMSON COUNTY</b>					
743+25 TO 746+90					STONEFORT
746+90 TO 758+98.4		60	269	1208	
758+98.4 TO 758+97.7					STATION EQ
758+97.7 TO 829+50		348	1567	7052	
<b>DEDUCTIONS</b>				220	
<b>SUBTOTALS</b>		0	408	1836	8041
<b>JOHNSON COUNTY</b>					
829+50 TO 837+10		38	169	760	
837+10 TO 838+00					
838+00 TO 838+28.2					044-0001
838+28.2 TO 840+38					
840+38 TO 857+60		85	383	1722	
857+60 TO 868+80	1120		249	1120	
868+80 TO 875+23.7		32	143	644	
875+23.7 TO 875+00					STATION EQ
875+00 TO 950+00		370	1667	7500	
950+00 TO 953+40				340	
<b>DEDUCTIONS</b>			16	290	
<b>SUBTOTALS</b>		1120	521	2595	11796
<b>TOTALS</b>		1,595	3,371	15,524	73,927

STATION TO STATION RIGHT	GUTTER REMOVAL	EARTH EXCAVATION	HOT-MIX ASPHALT SHOULDERS	SHOULDER RUMBLE STRIP	COMMENTS
	FEET	CU YD	SQ YD	FOOT	
<b>SALINE COUNTY</b>					
<b>URBAN</b>					
14+10 TO 75+00		301	1353	6090	
75+00 TO 77+15					FEAZEL ROAD
77+15 TO 93+75		82	369	1660	
93+75 TO 99+50					TURN LANE
<b>RURAL</b>					
99+50 TO 166+00		328	1478	6650	
166+00 TO 213+50				4750	
213+50 TO 225+30					LEDFORD
225+30 TO 298+00		359	1616	7270	
298+00 TO 338+72.3					
338+72.3 TO 338+77.5					CARRIER MILLS
338+77.5 TO 359+50					
359+50 TO 379+15		97	437	1965	
379+15 TO 381+80					083-0009
381+80 TO 403+14.2		105	474	2134	
403+14.2 TO 403+11.8					STATION EQ
403+11.8 TO 418+50		76	342	1538	
418+50 TO 420+90					083-0010
420+90 TO 422+00		5	24	110	
422+00 TO 422+03.4					STATION EQ
422+03.4 TO 521+27		490	2205	9924	
521+27 TO 575+57					STATION EQ
575+57 TO 603+00		135	610	2743	
603+00 TO 613+20		50	227	1020	
613+20 TO 613+66.6					
613+66.6 TO 613+62.4					083-0011
613+62.4 TO 617+40					
617+40 TO 635+00		87	391	1760	
635+00 TO 635+20.2					STATION EQ
635+20.2 TO 640+00		24	107	480	
640+00 TO 647+80					083-0065
647+80 TO 672+28		121	544	2448	
672+28 TO 674+00				172	
674+00 TO 680+50				650	
680+50 TO 683+50					083-9900
683+50 TO 686+50				300	
686+50 TO 701+52.3		74	334	1502	
701+52.3 TO 701+00					STATION EQ
701+00 TO 739+95		192	866	3895	
739+95 TO 743+25					STONEFORT
<b>DEDUCTIONS</b>		19	86	1445	
<b>SUBTOTALS</b>		0	2509	11290	55616
<b>WILLIAMSON COUNTY</b>					
743+25 TO 758+98.4		78	350	1573	
758+98.4 TO 758+97.7					STATION EQ
758+97.7 TO 829+50		348	1567	7052	
<b>DEDUCTIONS</b>				20	
<b>SUBTOTALS</b>		0	426	1917	8606
<b>JOHNSON COUNTY</b>					
829+50 TO 837+35		39	174	785	
837+35 TO 838+00					
838+00 TO 838+28.2					044-0001
838+28.2 TO 840+43					
840+43 TO 875+23.7		172	773	3481	
875+23.7 TO 875+00					STATION EQ
875+00 TO 950+75		374	1683	7575	
950+75 TO 953+40				265	
<b>DEDUCTIONS</b>			16	230	
<b>SUBTOTALS</b>		0	581	2616	11876
<b>TOTALS</b>		0	3,516	15,822	76,098

SEE EARTHWORK SCHEDULE FOR ADDITIONAL EARTH EXCAVATION QUANTITIES.

FILE NAME = c:\projects\901987\d981987schm32	USER NAME = thomashf	DESIGNED - ---	REVISED - ---	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES - SAFETY SHOULDERS</b>	F.A.P. RTE. 881	SECTION D9 SAFETY FY08-1	COUNTY VARTOUS	TOTAL SHEETS 64	SHEET NO. 7		
PLOT SCALE = 50,000' / IN.		CHECKED - ---	REVISED - ---			SCALE: NONE    SHEET NO. ___ OF ___ SHEETS    STA. TO STA.		CONTRACT NO. 78038				
PLOT DATE = 3/18/2008		DATE - -----	REVISED - ---			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT						

# TRAFFIC BARRIER SCHEDULE

LOCATION STATION TO STATION	GUARDRAIL REMOVAL FOOT	SPBGR TYPE A FOOT	HANDRAIL CONCRETE REM FOOT	STEEL BRIDGE RAIL FOOT	TUBULAR THRIE BEAM RAIL FOOT	TRAFFIC BARRIER TERMINAL					GUARDRAIL MARKERS EACH	TERMINAL MARKERS DIRECT APPLIED EACH	REMARKS
						TY 1, SPL (TAN) EACH	TYPE 2 EACH	TYPE 6A EACH	TYPE 6B EACH	TYPE 9 EACH			
<b>SALINE COUNTY</b>													
<b>FEAZEL ROAD</b>													
RT 76+90.00 TO 77+15.00	25.00					1						1	TERMINAL REPLACEMENT
LT 77+25.00 TO 77+50.00	25.00					1						1	TERMINAL REPLACEMENT
<b>083 - 0009</b>													
RT 379+15.00 TO 379+96.25		31.25				1					1	1	
RT 379+96.25 TO 380+40.00								1					
RT 380+40.00 TO 380+84.00			44.0	44.0									BRIDGE RAIL UPDATE
RT 380+84.00 TO 381+27.75								1					
RT 381+27.75 TO 382+40.25		62.50				1					1	1	
LT 379+00.00 TO 379+50.00						1							
LT 379+50.00 TO 379+70.00		31.25					1				1		
LT 380+46.00 TO 380+56.00							1	1					
LT 380+56.00 TO 381+00.00			44.0	44.0									BRIDGE RAIL UPDATE
LT 381+00.00 TO 381+43.75								1					
LT 381+43.75 TO 383+56.25		162.50				1					3	1	
<b>083 - 0010</b>													
RT 416+83.75 TO 418+96.25		162.50				1					3	1	
RT 418+96.25 TO 419+40.00								1					
RT 419+40.00 TO 420+00.00			60.0	60.0									BRIDGE RAIL UPDATE
RT 420+00.00 TO 420+43.75								1					
RT 420+43.75 TO 421+56.25		62.50				1					1	1	
LT 417+83.75 TO 418+96.25		62.50				1					1	1	
LT 418+96.25 TO 419+40.00								1					
LT 419+40.00 TO 420+00.00			60.0	60.0									BRIDGE RAIL UPDATE
LT 420+00.00 TO 420+43.75								1					
LT 420+43.75 TO 422+56.25		162.50				1					3	1	
<b>083 - 0011</b>													
RT 612+54.50 TO 613+04.50						1						1	TERMINAL REPLACEMENT
RT 613+04.50 TO 614+42.00	102.00	137.50									2		INSTALL WITH 1:40 FLARE
RT 614+42.00 TO 614+67.00	25.00									1			TERMINAL REPLACEMENT
RT 614+67.00 TO 614+95.00	25.00				25.0								THRIE BEAM RETROFIT
RT 614+95.00 TO 616+65.00					170.0								THRIE BEAM RETROFIT
RT 616+65.00 TO 616+92.00	25.00				25.0								THRIE BEAM RETROFIT
RT 616+92.00 TO 617+17.00	25.00									1			TERMINAL REPLACEMENT
RT 617+17.00 TO 618+04.50	26.00	87.50									2		INSTALL WITH 1:40 FLARE
RT 618+04.50 TO 618+54.50						1						1	TERMINAL REPLACEMENT
LT 613+04.50 TO 613+54.50						1						1	TERMINAL REPLACEMENT
LT 613+54.50 TO 614+42.00	26.00	87.50									2		INSTALL WITH 1:40 FLARE
LT 614+42.00 TO 614+67.00	25.00									1			TERMINAL REPLACEMENT
LT 614+67.00 TO 614+95.00	25.00				25.0								THRIE BEAM RETROFIT
LT 614+95.00 TO 616+65.00					170.0								THRIE BEAM RETROFIT
LT 616+65.00 TO 616+92.00	25.00				25.0								THRIE BEAM RETROFIT
LT 616+92.00 TO 617+17.00	25.00									1			TERMINAL REPLACEMENT
LT 617+17.00 TO 618+54.50	88.00	137.50									2		INSTALL WITH 1:40 FLARE
LT 618+54.50 TO 619+04.50						1						1	TERMINAL REPLACEMENT
<b>083 - 9900</b>													
RT 680+76.75 TO 681+26.75						1						1	
RT 681+26.75 TO 682+39.25		112.50									2		INSTALL WITH 1:40 FLARE
RT 682+39.25 TO 682+95.50													
LT 683+69.50 TO 684+25.75													
LT 684+25.75 TO 685+25.75		100.00									2		INSTALL WITH 1:40 FLARE
LT 685+25.75 TO 685+75.75						1						1	
<b>SUBTOTALS:</b>	<b>492.0</b>	<b>1400.0</b>	<b>208</b>	<b>208</b>	<b>440.0</b>	<b>16</b>	<b>2</b>	<b>8</b>	<b>2</b>	<b>4</b>	<b>26</b>	<b>16</b>	





## CULVERT REPLACEMENT SCHEDULE

LOCATION STATION	PAVEMENT REMOVAL SQ YD	CLASS C PATCHES SQ YD	AGG SURFACE COURSE, TYPE A TON	PRECAST CONCRETE BOX CULVERT				BOX CULVERT END SECTIONS EACH	CONCRETE BOX CULVERTS CU YD	REINFORCEMENT BARS POUND	POROUS GRANULAR BACKFILL CUBIC YARDS
				4' x 2' (M273) FOOT	5' x 3' (M273) FOOT	5' x 4' (M273) FOOT	6' x 4' (M273) FOOT				
LOCATION 1 STA 53+50	27	27			36			2			30
LOCATION 2 STA 161+69	27	27			38			2			31
LOCATION 3 STA 165+85	32	32					38	2			38
STA 166+22 (DRIVEWAY)	61		42			64			13.6	1040	35
LOCATION 4 STA 234+45	24	24		34				2			22
LOCATION 5 STA 240+60	61	61			84				31.2	2100	48
<b>TOTALS</b>	<b>232</b>	<b>171</b>	<b>42</b>	<b>34</b>	<b>158</b>	<b>64</b>	<b>38</b>	<b>8</b>	<b>44.8</b>	<b>3140</b>	<b>204</b>

## TREE REMOVAL SCHEDULE

LOCATION STATION	OFFSET FROM EOP FEET	OFFSET DIRECTION LT / RT	6 TO 15 INCHES UNITS	OVER 15 INCHES UNITS	REMARKS
	63+27	18	LT	10	
64+43	18	LT		40	OAK
160+82	19	RT		25	CYPRESS
161+91	19	RT	12	16	
161+97	19	RT		18	
162+03	18	RT		21	
162+03	29	RT		26	
162+07	19	RT	11		
162+26	16	RT	13		
162+31	15	RT		19	
162+33	29	RT		16	
162+35	28	RT	10		
162+37	28	RT	7		
162+41	16	RT		20	
162+41	16	RT		20	
163+27	16	RT		25	
240+40	18	RT		33	SYCAMORE
240+63	18	RT	14		
240+64	18	RT	12		
241+24	19	RT	8		
241+25	19	RT		18	
951+40	16	RT		45	STUMP
952+64	16	RT		34	STUMP
<b>TOTAL</b>			<b>97</b>	<b>413</b>	

## RIPRAP SCHEDULE

LOCATION STATION	OFFSET 1	OFFSET 2	AREA OF RIPRAP BED (FOR INFO ONLY) SQ FT	STONE RIPRAP CLASS A4 SQ YD	FILTER FABRIC SQ YD
	FOOT	FOOT			
<b>SALINE COUNTY</b>					
161+00 RT	18	38	872	97	97
161+25 RT	18	32			
161+50 RT	18	30			
161+60 RT	18	30			
161+35 LT	18	34	1917	213	213
162+05 LT	18	42			
162+25 LT	18	52			
165+65 RT	18	35	786	87	87
165+77 RT	18	45			
165+77 RT	27	45			
165+88 RT	27	45			
165+88 RT	18	45			
166+00 RT	18	45			
<b>TOTALS</b>				<b>397</b>	<b>397</b>

## EARTHWORK SCHEDULE

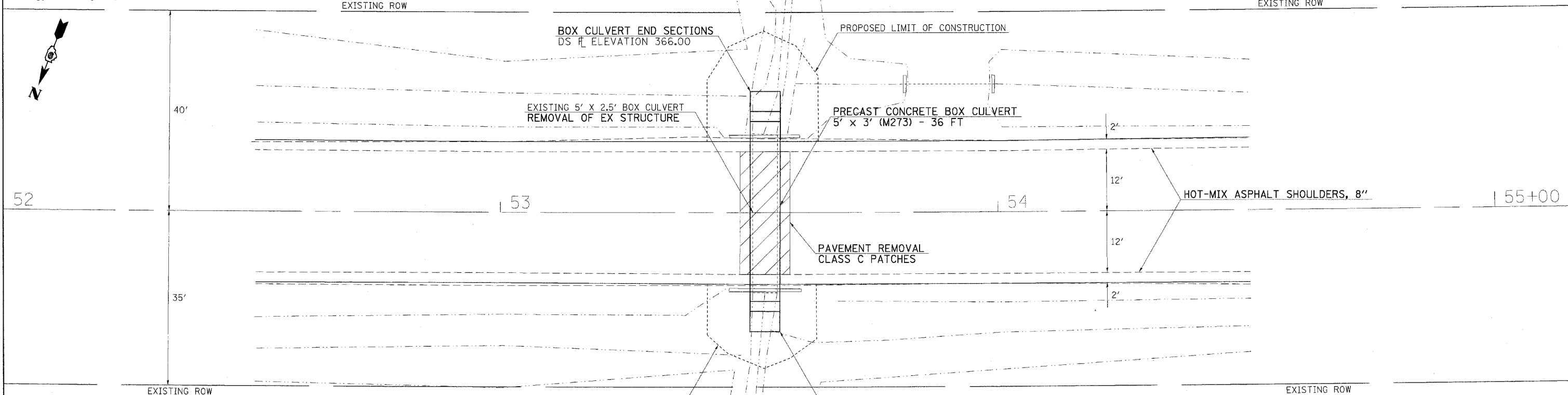
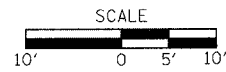
LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE *	EMBANKMENT *	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) *
STATION TO STATION	CU YD	CU YD	CU YD	CU YD
LOCATION 1 53+40 TO 53+65	1	1	20	-19
LOCATION 2 160+75 TO 162+75	219	175	81	94
LOCATION 3 165+50 TO 166+75	62	50	16	34
LOCATION 4 234+00 TO 234+75	49	39	13	26
LOCATION 5 240+00 TO 241+50	102	82	14	68
LOCATION 6 665+50 TO 670+75	78	62	3	59
LOCATION 7 857+25 TO 869+50	117	94	4	90
<b>TOTALS</b>	<b>628</b>			

\* FOR INFORMATION ONLY

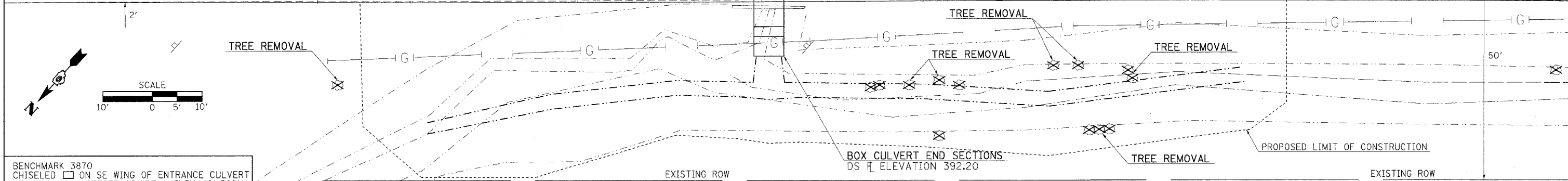
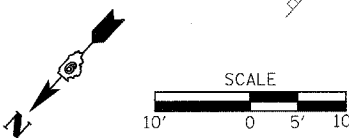
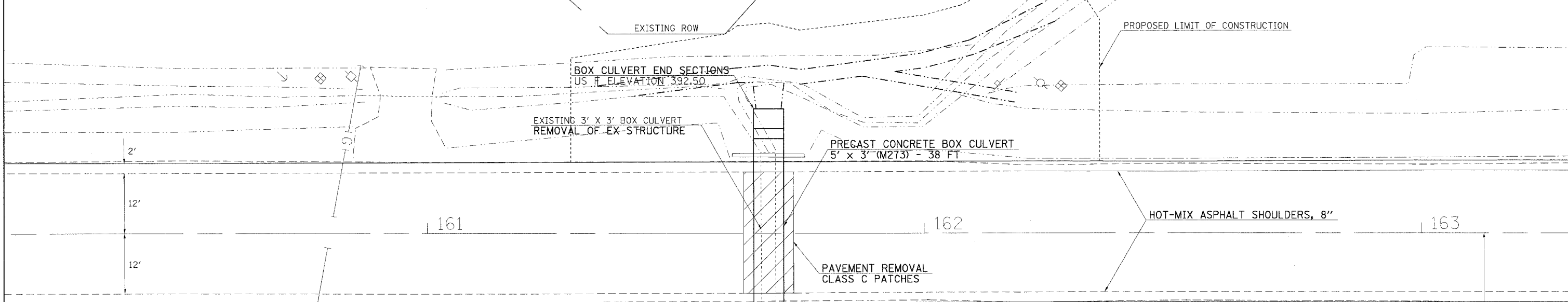
A 20% SHRINKAGE FACTOR HAS BEEN APPLIED TO EARTH EXCAVATION AND BORROW EXCAVATION.  
SEE SAFETY SHOULDER SCHEDULE FOR ADDITIONAL EARTH EXCAVATION QUANTITIES.

FILE NAME = c:\projects\901907\901907schm32	USER NAME = thomashf	DESIGNED - ---	REVISED - ---	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES - EARTHWORK</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - ---	REVISED - ---			881	D9 SAFETY FY08-1	VARIOUS	64	11	
		CHECKED - ---	REVISED - ---			CONTRACT NO. 78038					
		DATE - ---	REVISED - ---			SCALE: NONE	SHEET NO. ___ OF ___ SHEETS	STA. _____	TO STA. _____	FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT	





BENCHMARK 2499  
RR SPIKE SET IN 36" BLACK OAK  
STA 52+20 - ELEV 372.165'



BENCHMARK 3870  
CHISELED □ ON SE WING OF ENTRANCE CULVERT  
STA 166+06 - OFFSET 23' RT - ELEV 401.762'

FILE NAME =	USER NAME = thomaahf
DESIGNED -	REVISD -
DRAWN -	REVISD -
CHECKED -	REVISD -
DATE -	REVISD -
PLOT SCALE = 10.0000' / IN.	
PLOT DATE = 3/18/2009	

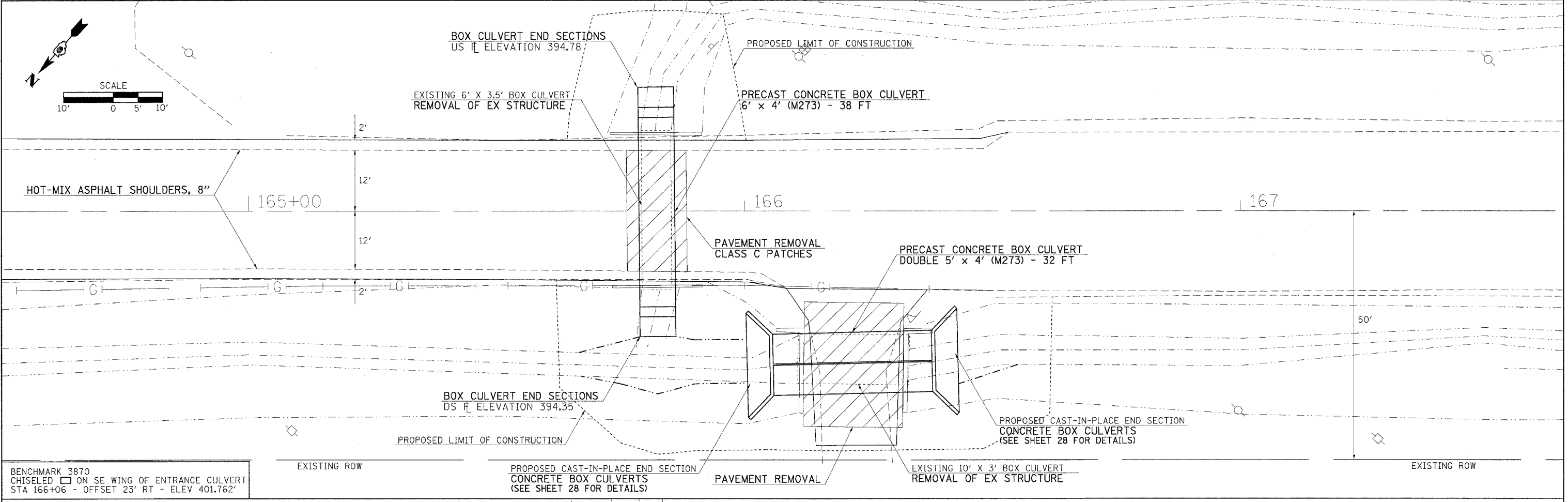
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DRAWN -	REVISD -
CHECKED -	REVISD -
DATE -	REVISD -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

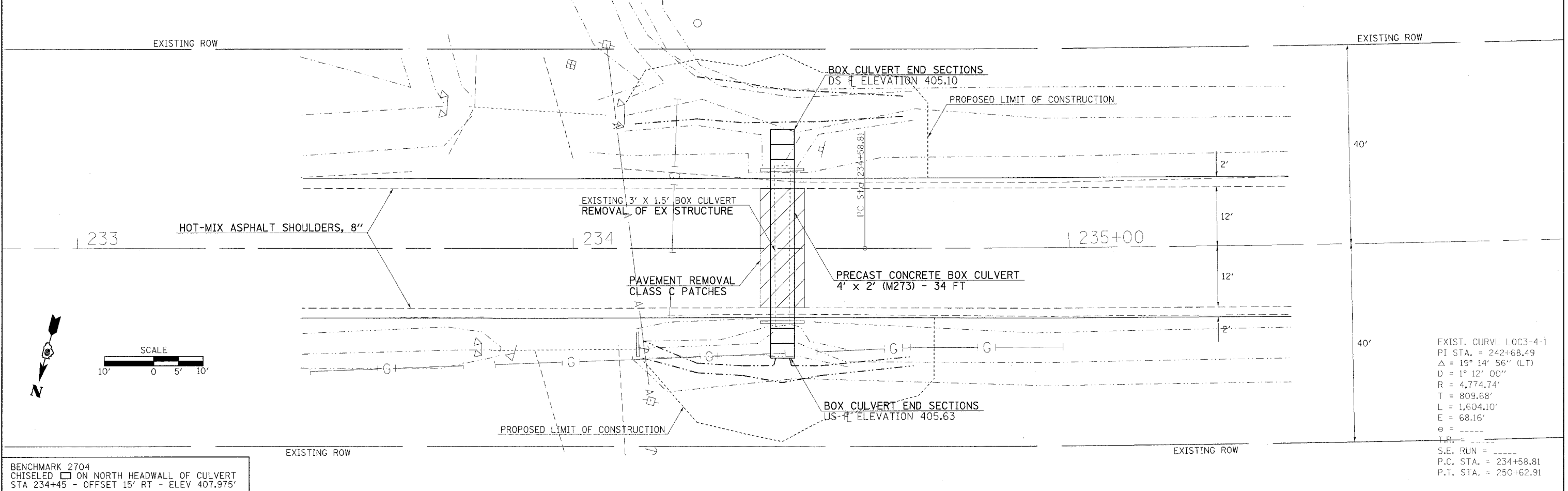
**PLAN VIEW - LOCATIONS 1 & 2**

SCALE: 1" = 10'    SHEET NO. \_\_\_ OF \_\_\_ SHEETS    STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	D9 SAFETY FY08-1	VARIOUS	64	13
CONTRACT NO. 78038				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



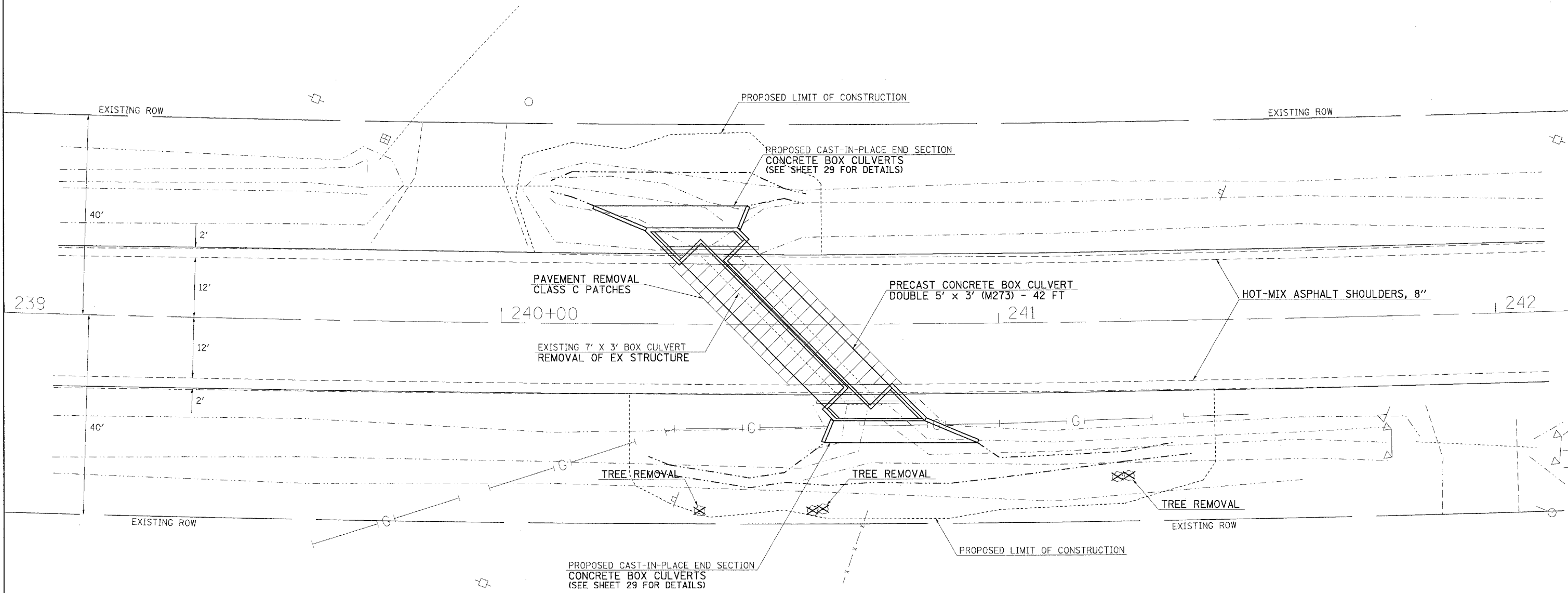
BENCHMARK 3870  
 CHISELED  $\square$  ON SE WING OF ENTRANCE CULVERT  
 STA 166+06 - OFFSET 23' RT - ELEV 401.762'



BENCHMARK 2704  
 CHISELED  $\square$  ON NORTH HEADWALL OF CULVERT  
 STA 234+45 - OFFSET 15' RT - ELEV 407.975'

EXIST. CURVE LOC3-4-1  
 PI STA. = 242+68.49  
 $\Delta$  = 19° 14' 56" (LT)  
 D = 1° 12' 00"  
 R = 4,774.74'  
 T = 809.68'  
 L = 1,604.10'  
 E = 68.16'  
 e = ----  
 F.R. = ----  
 S.E. RUN = ----  
 P.C. STA. = 234+58.81  
 P.T. STA. = 250+62.91

FILE NAME = c:\projects\981907\981907p1.m32	USER NAME = thomashf	DESIGNED - ---	REVISED - ---	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN VIEW - LOCATIONS 3 &amp; 4</b>		F.A.P. RTE. 881	SECTION D9 SAFETY FY08-1	COUNTY VARIOUS	TOTAL SHEETS 64	SHEET NO. 14	
PLOT SCALE = 10.0000" / IN.	CHECKED - ---	REVISED - ---	REVISED - ---		SCALE: 1" = 10'	SHEET NO. ___ OF ___ SHEETS	STA. _____ TO STA. _____	CONTRACT NO. 78038				
PLOT DATE = 3/18/2008	DATE - -----	REVISED - ---	REVISED - ---		FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT							



EXIST. CURVE LOC3-4-1  
 PI STA. = 242+68.49  
 $\Delta$  = 19° 14' 56" (LT)  
 D = 1° 12' 00"  
 R = 4,774.74'  
 T = 809.68'  
 L = 1,604.10'  
 E = 68.16'  
 e = -----  
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 234+58.81  
 P.T. STA. = 250+62.91

BENCHMARK 2704  
 CHISELED ON NORTH HEADWALL OF CULVERT  
 STA 234+45 - OFFSET 15' RT - ELEV 407.975'

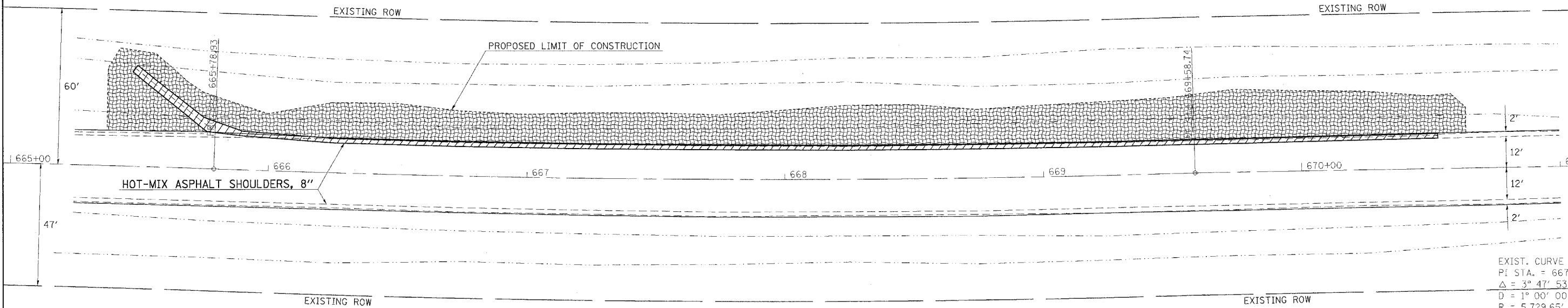
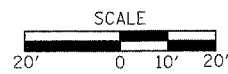
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PLOT DATE = 3/18/2008		DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PLAN VIEW - LOCATION 5**

SCALE: 1" = 10' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. 239+00 TO STA. 242+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	D9 SAFETY FY08-1	VARIOUS	64	15
CONTRACT NO. 78038				
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				



- GUTTER REMOVAL
- EROSION CONTROL BLANKET SEEDING, CLASS 2

EXIST. CURVE LOC6-2  
 P.I. STA. = 667+68.90  
 $\Delta = 3^\circ 47' 53''$  (L.T.)  
 $D = 1^\circ 00' 00''$   
 $R = 5,729.65'$   
 $T = 189.97'$   
 $L = 379.81'$   
 $E = 3.15'$   
 $\theta = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. \text{ RUN} = \text{-----}$   
 P.C. STA. = 665+78.93  
 P.T. STA. = 669+58.74

FILE NAME =  
 c:\projects\d901907\d901907pl.m32

USER NAME = thomashf  
 PLOT SCALE = 20.0000' / IN.  
 PLOT DATE = 3/18/2008

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

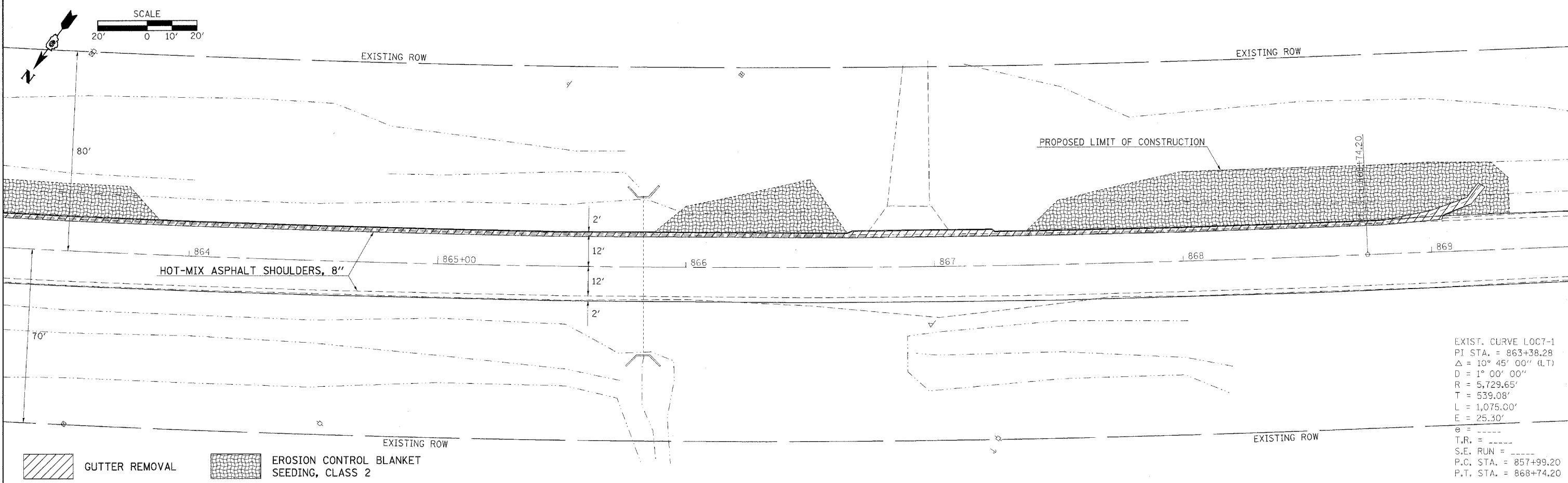
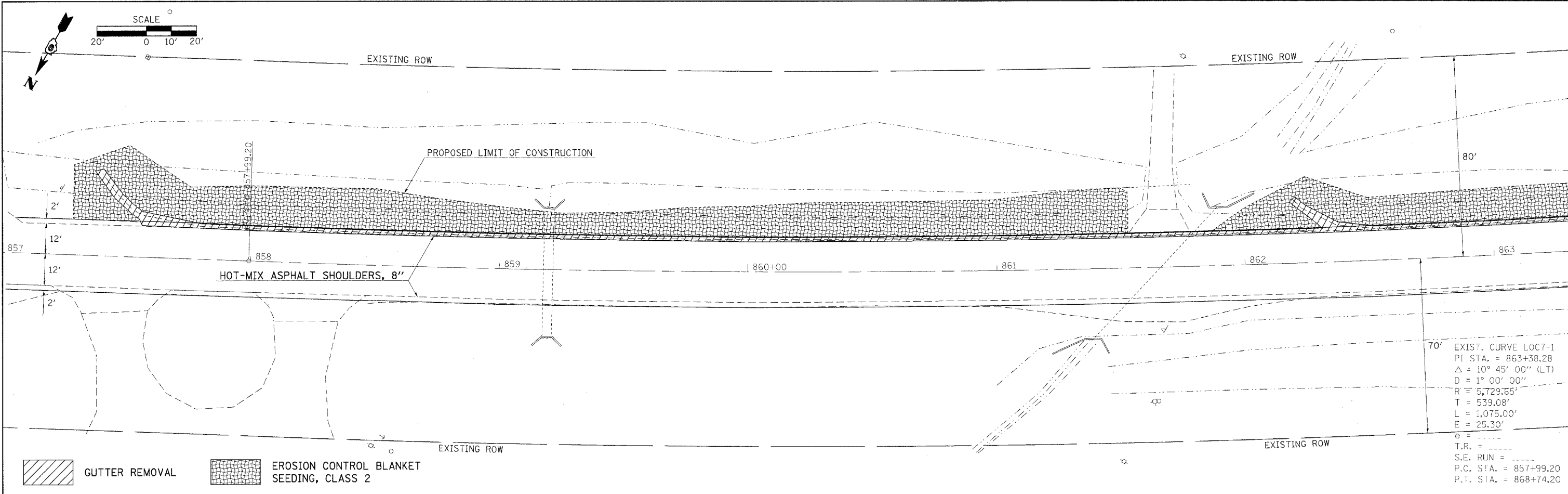
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PLAN VIEW - LOCATION 6**

SCALE: 1" = 20'    SHEET NO. \_\_\_ OF \_\_\_ SHEETS    STA. 665+00 TO STA. 671+00

F.A.P. RTE. 881	SECTION D9 SAFETY FY08-1	COUNTY VARIOUS	TOTAL SHEETS 64	SHEET NO. 16
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 78038	





FILE NAME =  
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USER NAME = thomashf  
PLOT SCALE = 20,0000' / IN.  
PLOT DATE = 3/19/2006

DESIGNED -  
DRAWN -  
CHECKED -  
DATE -

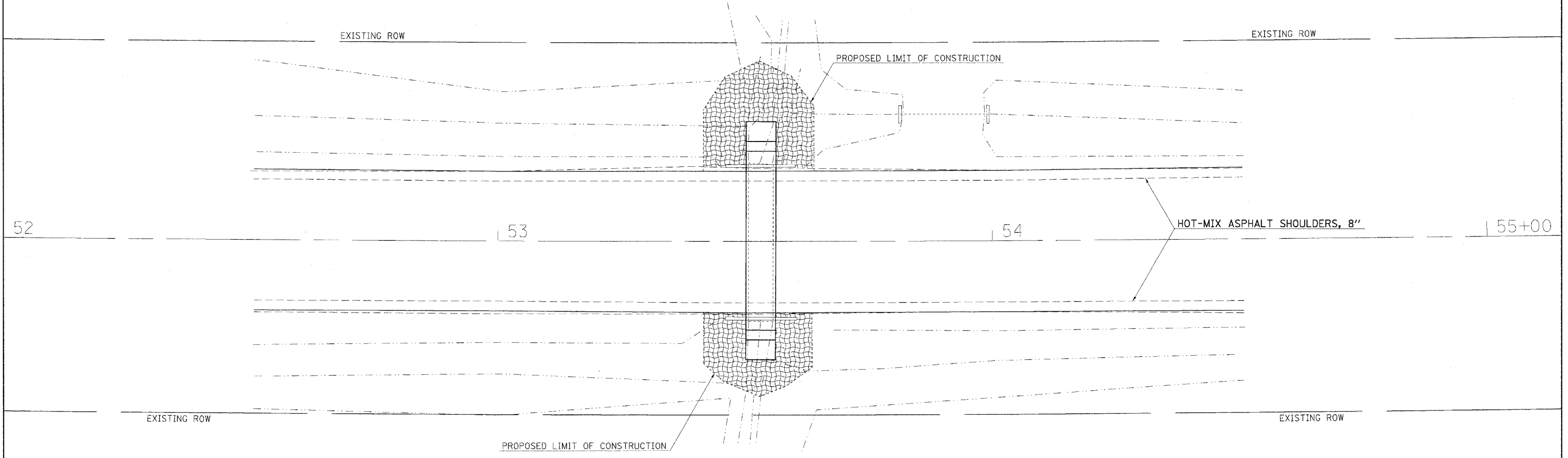
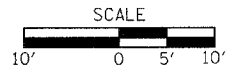
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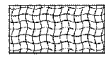
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PLAN VIEW - LOCATION 7**

SCALE: 1" = 20' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. 857+00 TO STA. 870+00

F.A.P. RTE. 881	SECTION D9 SAFETY FY08-1	COUNTY VARIOUS	TOTAL SHEETS 64	SHEET NO. 17
FED. ROAD DIST. NO. ___ ILLINOIS FED. AID PROJECT				
CONTRACT NO. 78038				




 EROSION CONTROL BLANKET SEEDING, CLASS 2

FILE NAME =  
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USER NAME = thomashf  
 PLOT SCALE = 10.0000' / IN.  
 PLOT DATE = 3/18/2008

DESIGNED - \_\_\_  
 DRAWN - \_\_\_  
 CHECKED - \_\_\_  
 DATE - \_\_\_

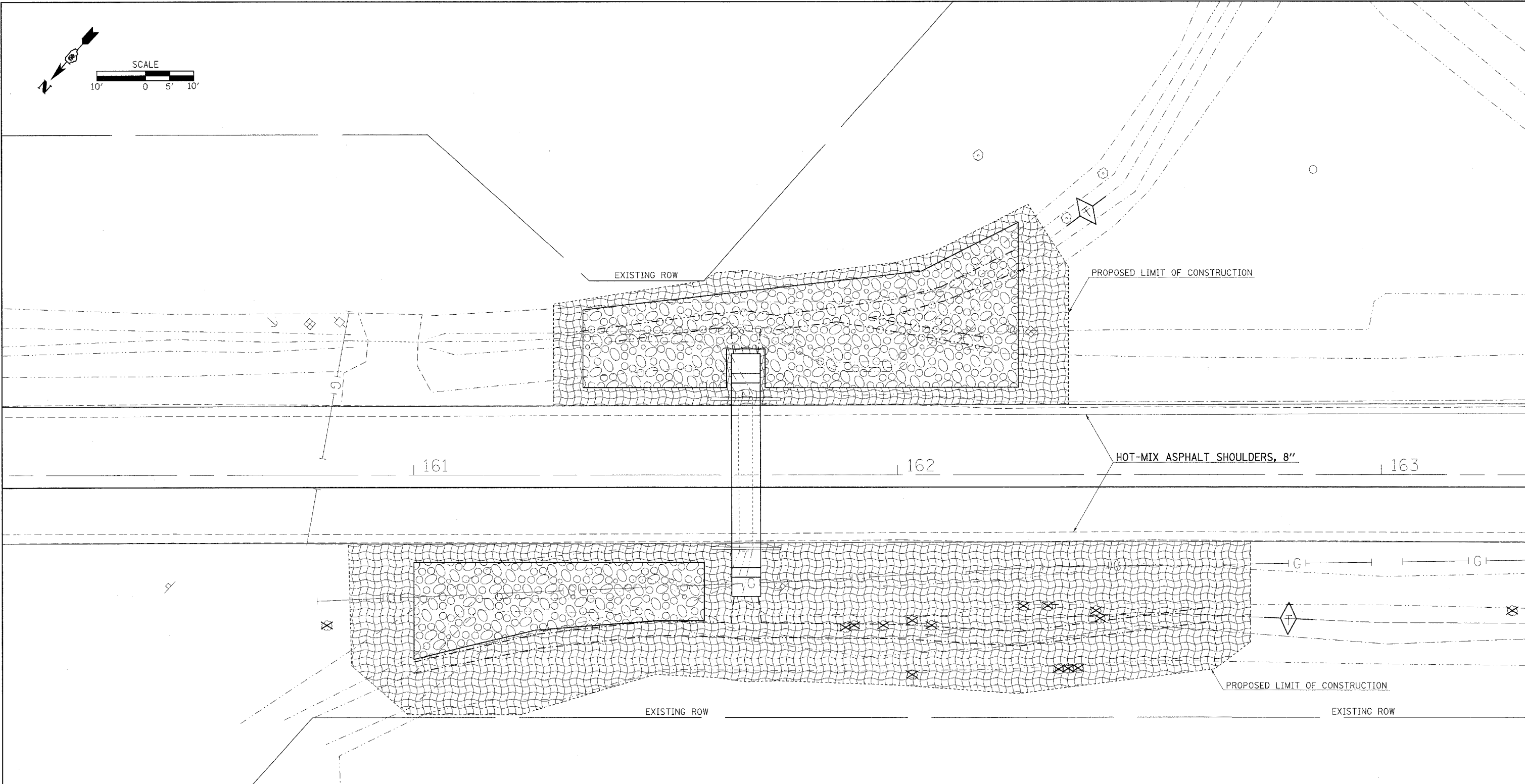
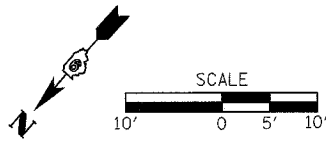
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


**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL - LOCATION 1**

SCALE: 1" = 10' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	D9 SAFETY FY08-1	VARIOUS	64	18
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 78038	



-  STONE RIPRAP, CLASS A4
-  EROSION CONTROL BLANKET SEEDING, CLASS 2
-  TEMPORARY DITCH CHECK

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PLOT DATE = 3/18/2008

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

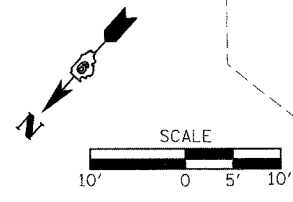
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
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

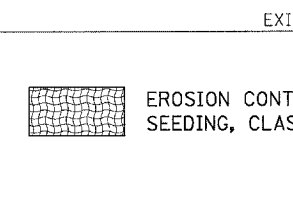
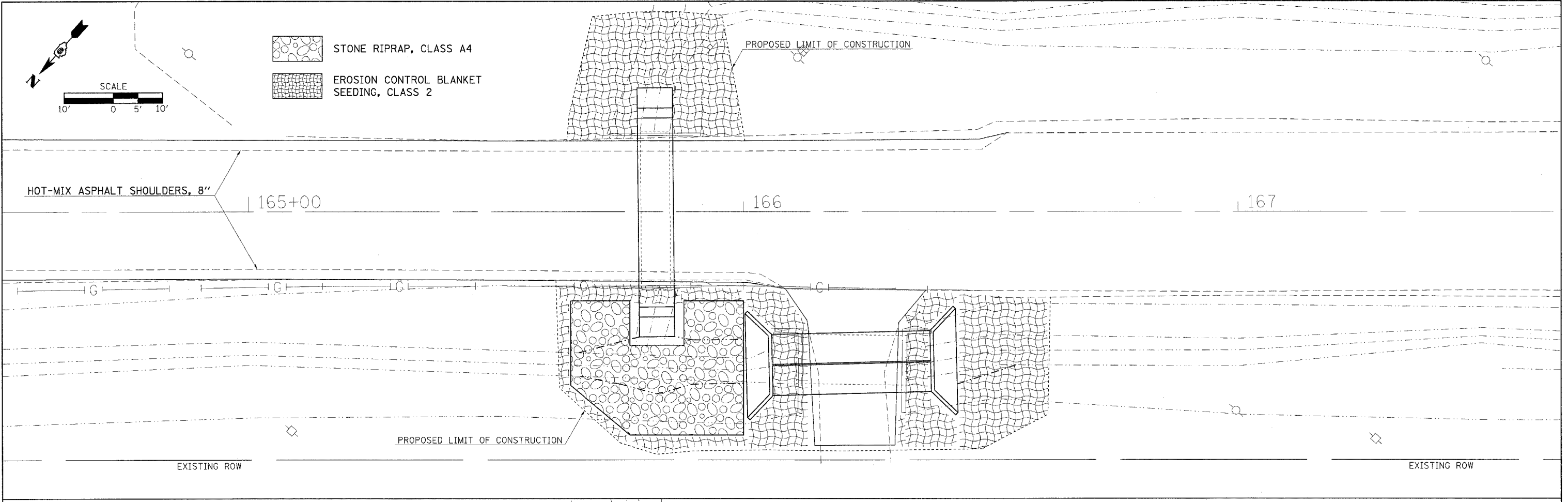
**RIPRAP & EROSION CONTROL - LOCATION 2**

SCALE: 1" = 10' SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. 239+00 TO STA. 242+00

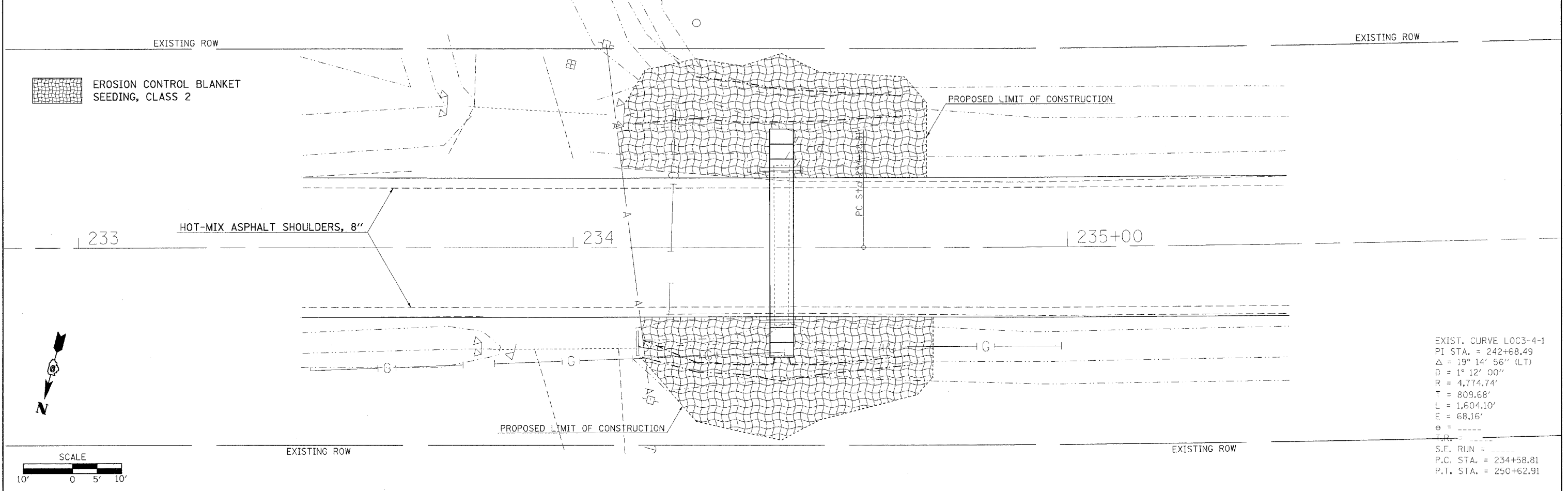
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FED. ROAD DIST. NO. _ (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 78038	



 STONE RIPRAP, CLASS A4  
 EROSION CONTROL BLANKET SEEDING, CLASS 2

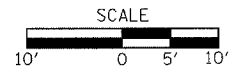


 EROSION CONTROL BLANKET SEEDING, CLASS 2

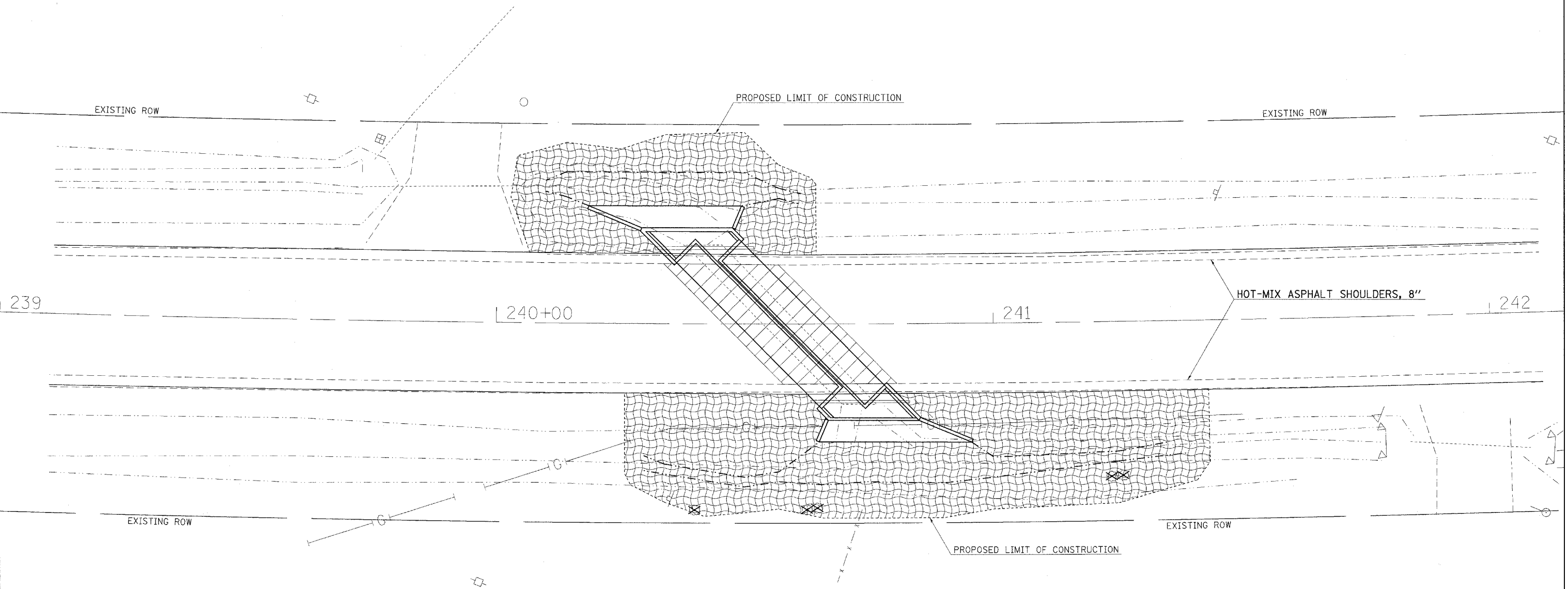


EXIST. CURVE LOC3-4-1  
 PI STA. = 242+68.49  
 $\Delta = 19^\circ 14' 56''$  (LT)  
 $D = 1^\circ 12' 00''$   
 $R = 4,774.74'$   
 $T = 809.68'$   
 $L = 1,604.10'$   
 $E = 68.16'$   
 $e =$   
 $T.R. =$   
 S.E. RUN =  
 P.C. STA. = 234+58.81  
 P.T. STA. = 250+62.91

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PLOT SCALE = 10,0000' / IN.	CHECKED - ---	REVISED - ---	SCALE: 1" = 10'			SHEET NO. ___ OF ___ SHEETS	STA. _____ TO STA. _____	FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT			
PLOT DATE = 3/18/2008	DATE - ---	REVISED - ---									
CONTRACT NO. 78038											



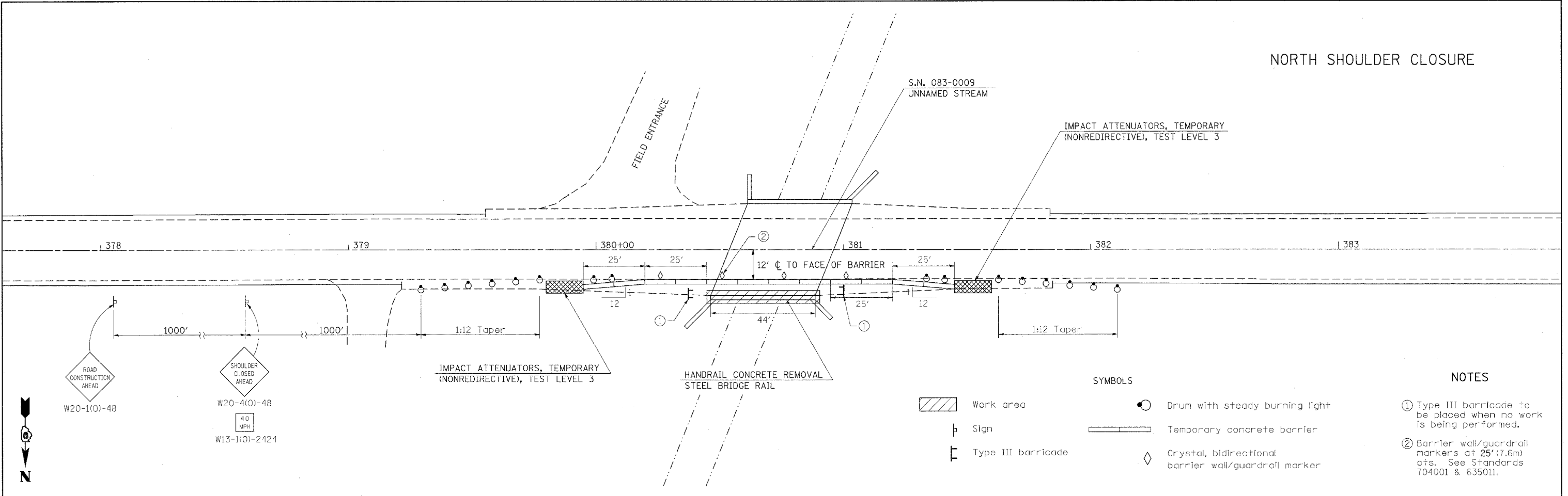
EROSION CONTROL BLANKET SEEDING, CLASS 2



EXIST. CURVE LOC3-4-1  
 P.I. STA. = 242+68.49  
 $\Delta = 19^\circ 14' 56''$  (LT)  
 $D = 1^\circ 12' 00''$   
 $R = 4,774.74'$   
 $T = 809.68'$   
 $L = 1,604.10'$   
 $E = 68.16'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. \text{ RUN} = \text{-----}$   
 $P.C. \text{ STA.} = 234+58.81$   
 $P.T. \text{ STA.} = 250+62.91$

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	PLOT DATE = 3/18/2008	CHECKED - ---	REVISED - ---		FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT							
		DATE - -----	REVISED - ---									

NORTH SHOULDER CLOSURE



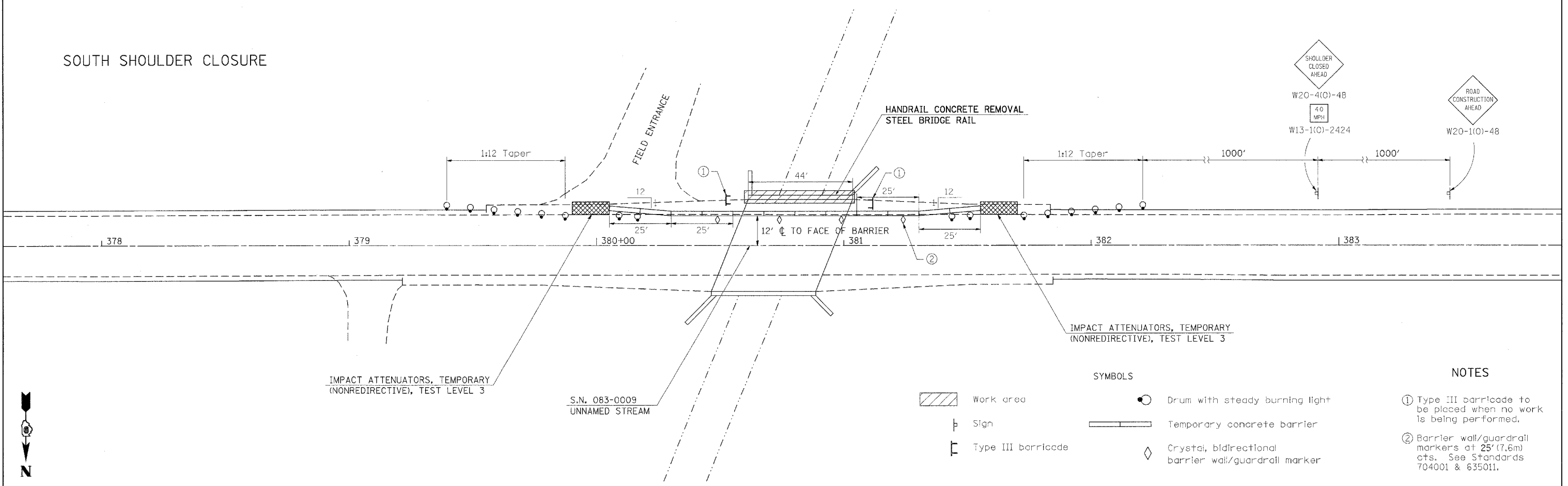
SYMBOLS

- Work area
- Sign
- Type III barricade
- Drum with steady burning light
- Temporary concrete barrier
- Crystal, bidirectional barrier wall/guardrail marker

NOTES

- ① Type III barricade to be placed when no work is being performed.
- ② Barrier wall/guardrail markers at 25' (7.6m) cts. See Standards 704001 & 635011.

SOUTH SHOULDER CLOSURE



SYMBOLS

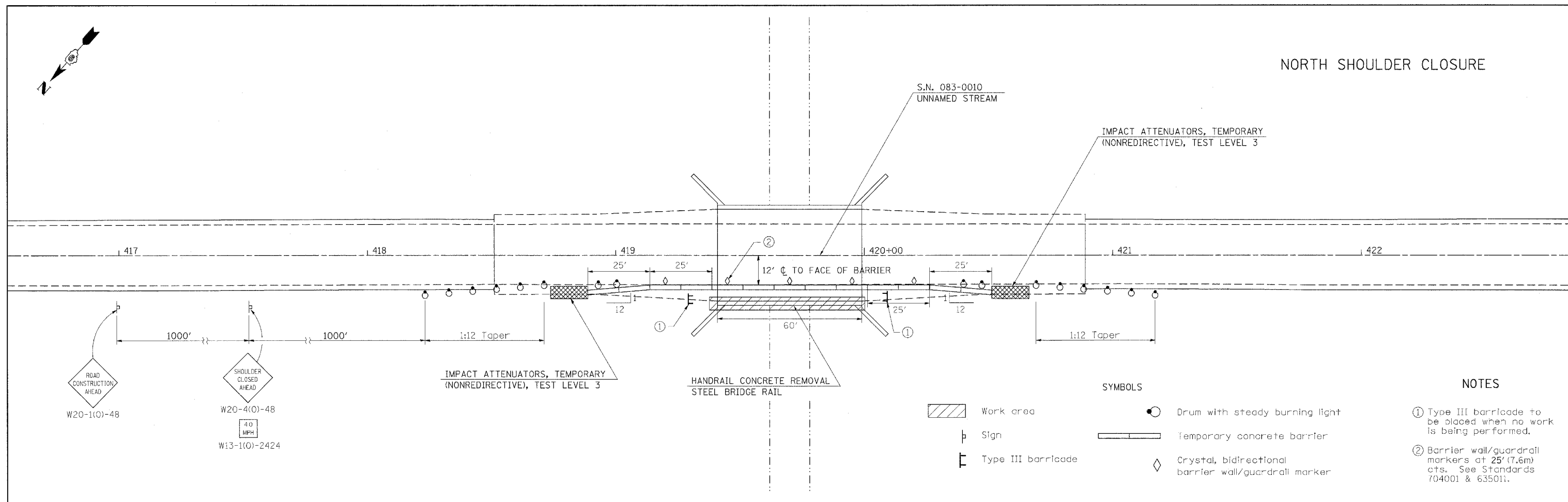
- Work area
- Sign
- Type III barricade
- Drum with steady burning light
- Temporary concrete barrier
- Crystal, bidirectional barrier wall/guardrail marker

NOTES

- ① Type III barricade to be placed when no work is being performed.
- ② Barrier wall/guardrail markers at 25' (7.6m) cts. See Standards 704001 & 635011.

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PLOT DATE = 3/18/2008	DATE -	REVISED -	REVISED -			FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT					
CONTRACT NO. 78038											

NORTH SHOULDER CLOSURE



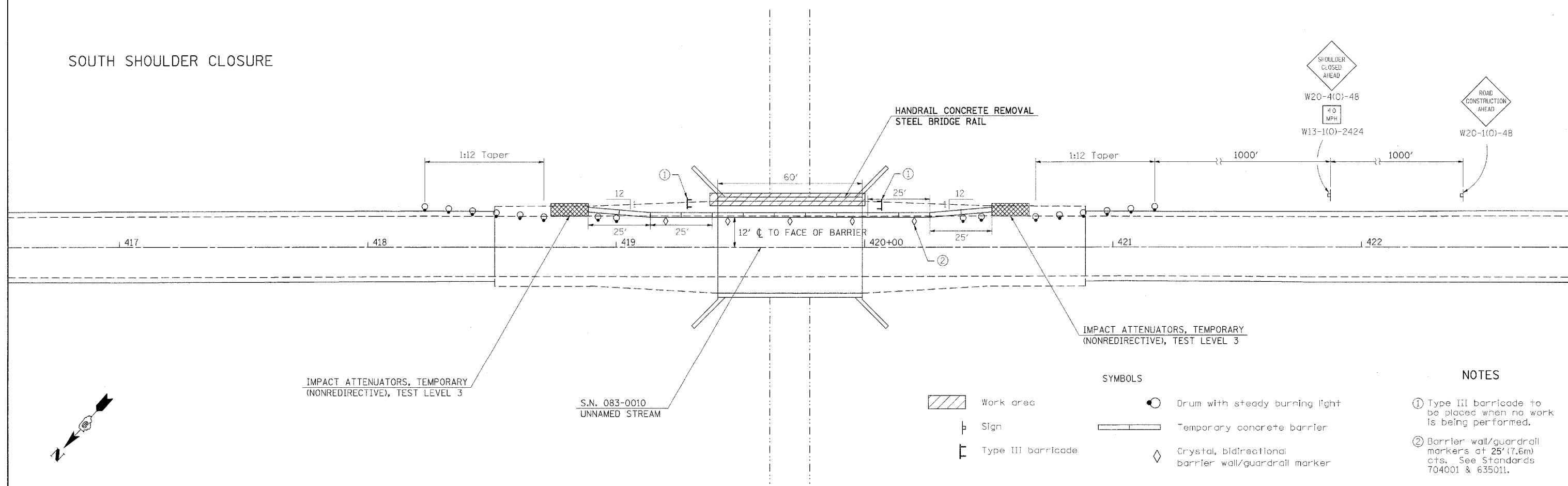
SYMBOLS

- Work area
- Sign
- Type III barricade
- Drum with steady burning light
- Temporary concrete barrier
- Crystal, bidirectional barrier wall/guardrail marker

NOTES

- ① Type III barricade to be placed when no work is being performed.
- ② Barrier wall/guardrail markers at 25' (7.6m) cts. See Standards 704001 & 635011.

SOUTH SHOULDER CLOSURE



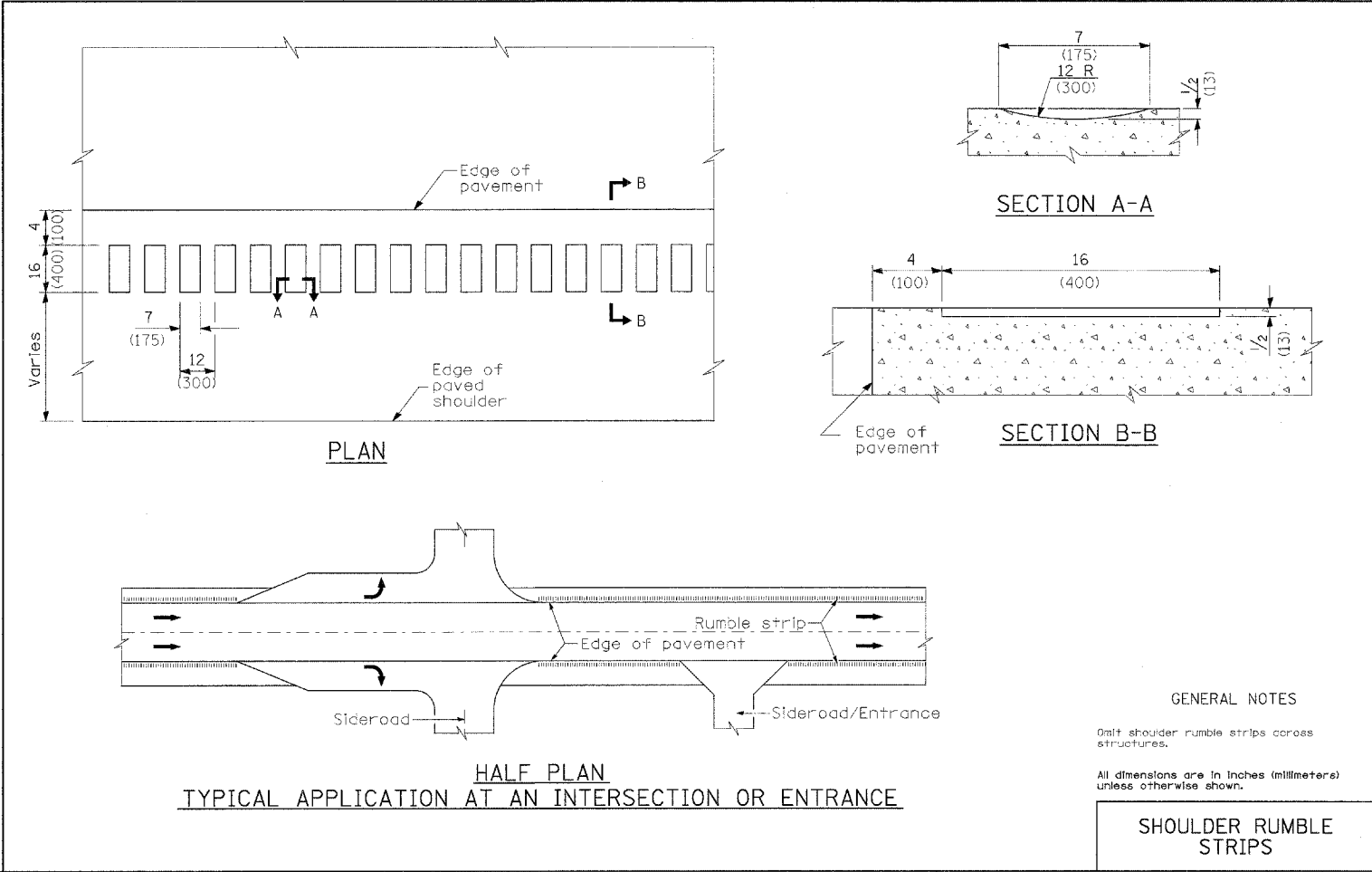
SYMBOLS

- Work area
- Sign
- Type III barricade
- Drum with steady burning light
- Temporary concrete barrier
- Crystal, bidirectional barrier wall/guardrail marker

NOTES

- ① Type III barricade to be placed when no work is being performed.
- ② Barrier wall/guardrail markers at 25' (7.6m) cts. See Standards 704001 & 635011.

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PLOT SCALE = 50,000' / IN.	CHECKED - ---	REVISED - ---	REVISED - ---		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. _____ TO STA. _____	CONTRACT NO. 78038				
PLOT DATE = 3/18/2008	DATE - -----	REVISED - ---	REVISED - ---		FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT							



**GENERAL NOTES**

Only shoulder rumble strips across structures.

All dimensions are in inches (millimeters) unless otherwise shown.

**SHOULDER RUMBLE STRIPS**

FILE NAME = c:\projects\901907\901907det.m32	USER NAME = thomashf	DESIGNED - ---	REVISED - ---	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETAIL: SHOULDER RUMBLE STRIPS</b>	F.A.P. RTE. 881	SECTION D9 SAFETY FY08-1	COUNTY VARIOUS	TOTAL SHEETS 64	SHEET NO. 24
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	PLOT DATE = 3/18/2008	DATE - -----	REVISED - ---			SCALE: NONE				
						SHEET NO. 1 OF 1 SHEETS		STA. _____ TO STA. _____		FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT



**NOTES**

Hollow structural sections shall conform to the requirements of ASTM designation A 500, Grade B, Structural Steel Tubing and shall meet the longitudinal CVN requirements of 15 ft-lbs at 0°F.  
 All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36 except posts shall conform to AASHTO M 270, Grade 50.

Bolts, cap screws and nuts shall conform to the requirements of ASTM designation A 307 except that threaded rods, nuts and washers shall conform to AASHTO M 164.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized according to AASHTO M 232.

All posts, railing, rail splices and anchor rods shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. Galvanized rail shall not be painted.

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for Steel Bridge Rail.

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

Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.

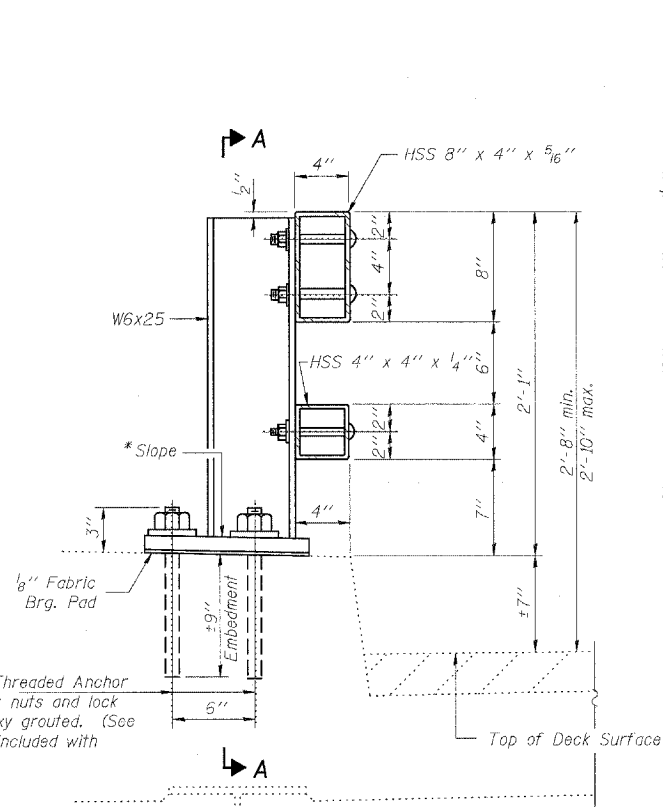
Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow ralling movement.

Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.

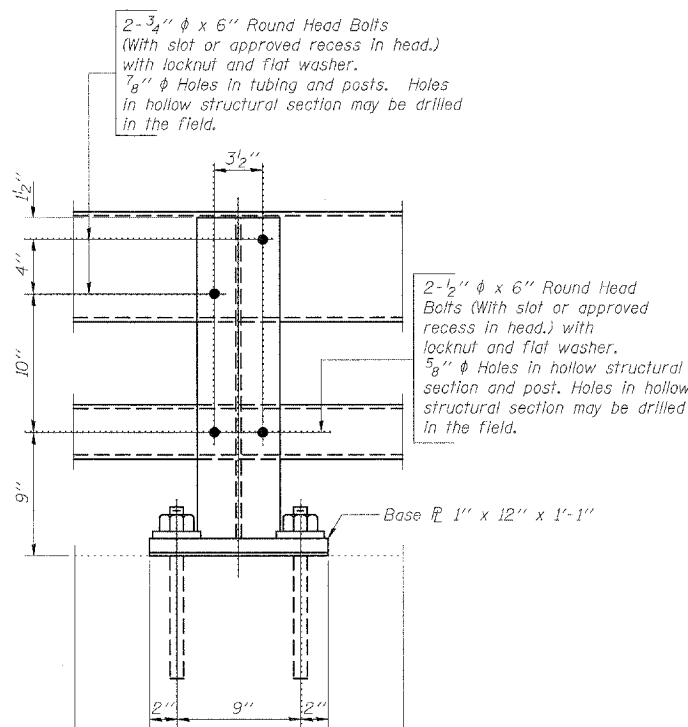
Expansion joint width shall be "D" at 50° F and shall be adjusted for other temperatures according to Article 503.10(c) of the Standard Specifications.

The Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or the adhesive cartridge shall be sealed with pre-measured amounts of the adhesive chemical.

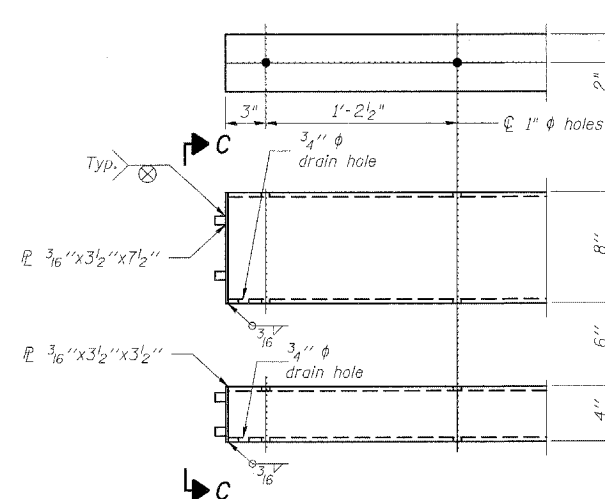
Nuts for 1" threaded anchor rods connecting the base plate to the concrete shall be tightened to a snug fit and given an additional 1/8 turn.



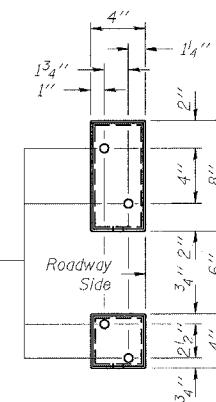
**SECTION AT RAIL POST**



**SECTION A-A**

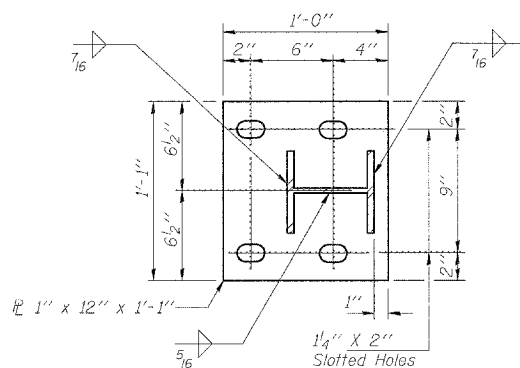


**END OF RAIL DETAILS**

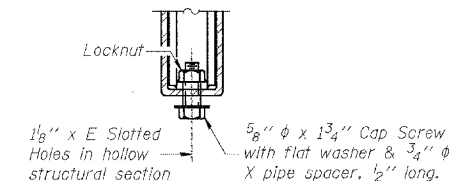
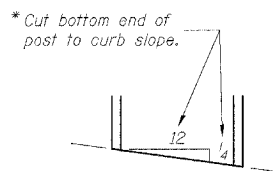


**VIEW C-C**

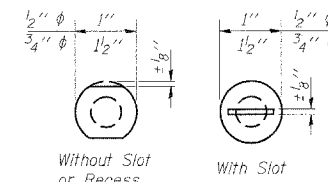
4 - 5/8" reduced base welded studs. Provide 4 - 5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032



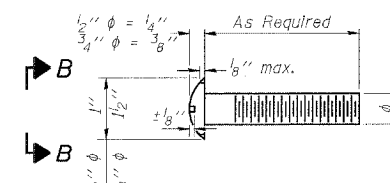
**BASE PLATE DETAIL**



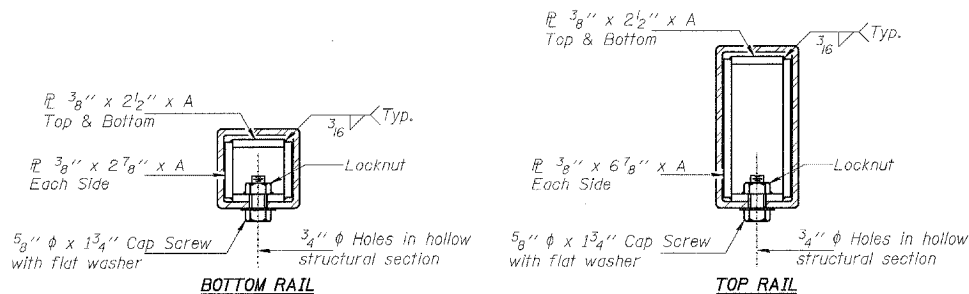
**RAIL SPLICE CONNECTION AT EXPANSION JT.**



**VIEW B-B**

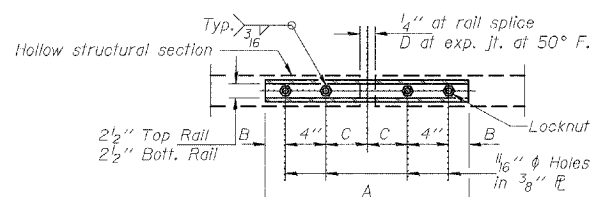


**DETAIL OF 1/2" & 3/4" ROUND HEAD BOLTS**



**SECTIONS AT RAIL SPLICE**

(6'-3" Maximum Post Spacing)



**PLAN-BOTT. SPLICE TYPICAL**

**BILL OF MATERIAL**

Item	Unit	Quantity
Steel Bridge Rail	Foot	
S.N. 083-0009		88.0
S.N. 083-0010		120.0

**SPLICE DIMENSIONS**

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

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

**STEEL BRIDGE RAIL CURB MOUNTED (2399)**

FILE NAME = c:\projects\1907\1907\1907det.m32

USER NAME = thomashf  
 PLDT SCALE = 50.00000' / IN.  
 PLOT DATE = 3/18/2008

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**DETAIL: STEEL BRIDGE RAIL**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE. 881 SECTION D9 SAFETY FY08-1 COUNTY VARIOUS TOTAL SHEETS 64 SHEET NO. 25 CONTRACT NO. 78038 FED. ROAD DIST. NO. \_\_\_\_\_ ILLINOIS FED. AID PROJECT

R-31 10-31-02

# DETAIL OF PRECAST CONCRETE BOX CULVERT SECTION

(WITH LESS THAN 2 FEET OF COVER  
AASHTO DESIGNATION M273)  
DESIGN LOADING: HS-20-44

## GENERAL NOTES

SHOP PLANS FOR THE REINFORCEMENT SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 504.04 OF THE STANDARD SPECIFICATIONS.

MINIMUM CONCRETE STRENGTH SHALL BE 5000 PSI AFTER 28 DAYS.

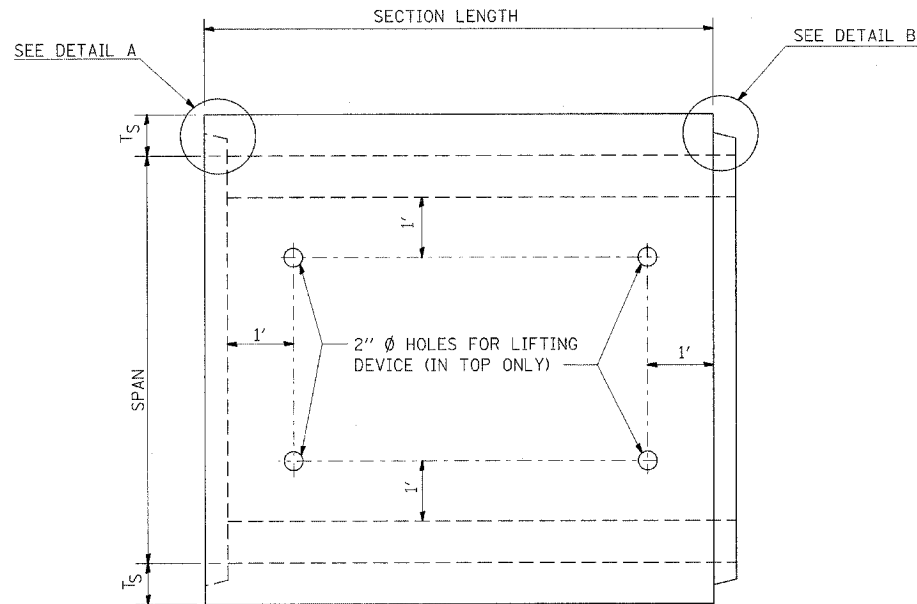
THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED WITH MASTIC IN ACCORDANCE WITH ARTICLE 1055.01 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

LIFTING HOLES SHALL BE FILLED WITH CONCRETE PLUGS AND MASTIC AFTER THE BOX SECTIONS ARE IN PLACE.

THE TERMS AS1, AS2, ETC. DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN AASHTO M273.

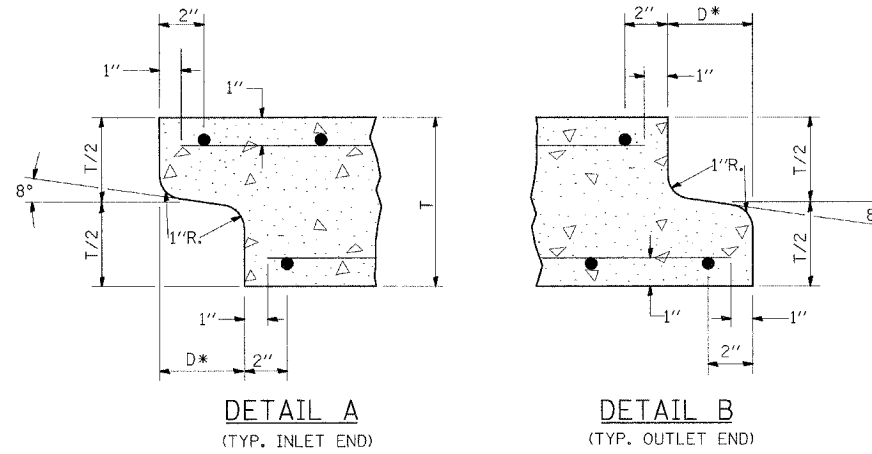
REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO ASTM SPECIFICATIONS A 185 OR A 497. LONGITUDINAL DISTRIBUTION REINFORCEMENT MAY CONSIST OF WELDED WIRE FABRIC OR DEFORMED BILLET-STEEL BARS CONFORMING TO AASHTO M-31, M-42, GRADE 60.

DRAINAGE OPENINGS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 503.11 OF THE STANDARD SPECIFICATIONS. LOCATION AND SPACING OF THE OPENINGS SHALL BE SHOWN ON THE SHOP DRAWINGS.



**PLAN**

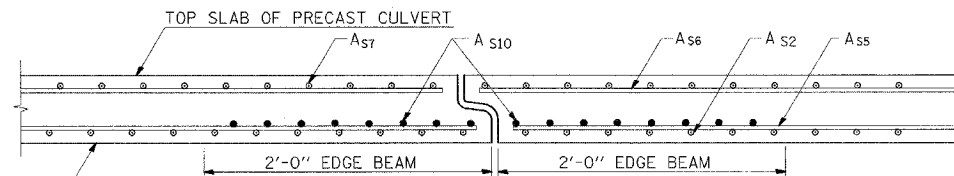
LOCATION OF LIFTING HOLES MAY BE VARIED AS NEEDED TO CLEAR REINFORCEMENT.



**DETAIL A**  
(TYP. INLET END)

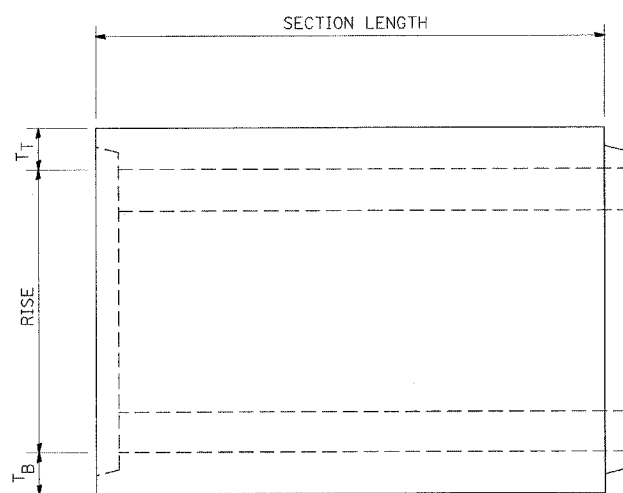
**DETAIL B**  
(TYP. OUTLET END)

NOTE: INLET AND OUTLET ENDS SHALL BE COMPATIBLE.  
\* THE D DIMENSION SHALL CONFORM TO THE MANUFACTURER'S STANDARDS.

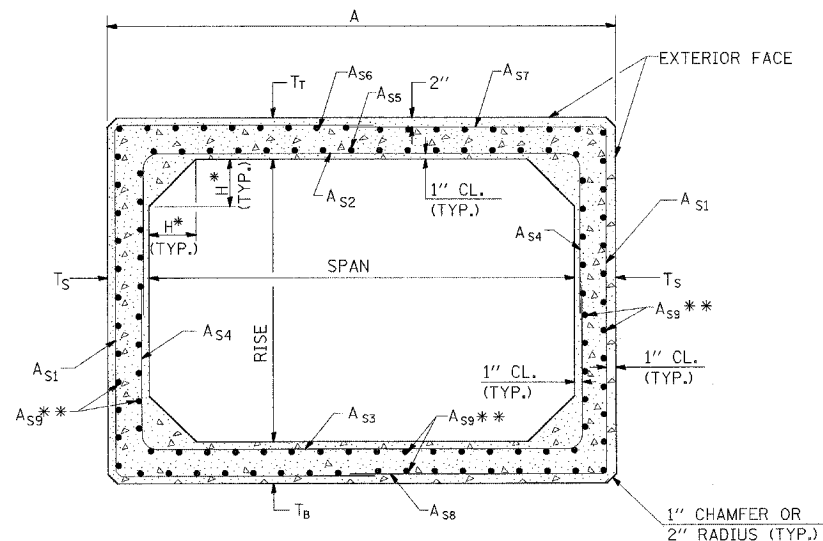


**DETAIL OF EDGE BEAM**

NOTE: THE AS10 REINFORCEMENT SHALL BE THE SAME LENGTH AS THE AS2.



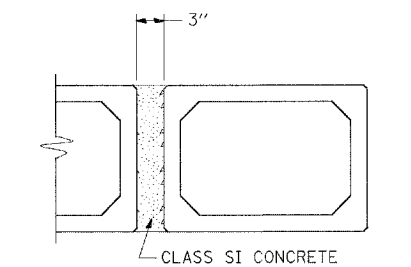
**ELEVATION**



**CROSS SECTION**

\* THE HAUNCH DIMENSION, H, IS EQUAL TO THE WALL THICKNESS, TS.

\*\* THE AREA OF AS9 REINFORCEMENT SHALL BE A MINIMUM OF 0.12 SQ. IN./FT.



**MULTIPLE UNIT PLACEMENT**

## DIMENSIONS & EDGE BEAM REINFORCEMENT

SPAN X RISE	DIMENSIONS (INCHES)			EDGE BEAM REINF. AREA (IN <sup>2</sup> /FT.) AS10
	TT	TB	TS	
3' X 2'	7	6	4	0.42
3' X 3'	7	6	4	0.42
4' X 2'	7 1/2	6	5	0.59
4' X 3'	7 1/2	6	5	0.59
4' X 4'	7 1/2	6	5	0.59
5' X 3'	8	7	6	0.59
5' X 4'	8	7	6	0.59
5' X 5'	8	7	6	0.59
6' X 3'	8	7	7	0.73
6' X 4'	8	7	7	0.73
6' X 5'	8	7	7	0.73
6' X 6'	8	7	7	0.73
7' X 4'	8	8	8	0.85
7' X 5'	8	8	8	0.85
7' X 6'	8	8	8	0.85
7' X 7'	8	8	8	0.85
8' X 4'	8	8	8	1.00
8' X 5'	8	8	8	1.00
8' X 6'	8	8	8	1.00
8' X 7'	8	8	8	1.00
8' X 8'	8	8	8	1.00

FILE NAME = c:\projects\901907\901907.dwg

USER NAME = thomashf

DESIGNED -

REVISED -

PLOT SCALE = 50.0000' / IN.

DRAWN -

REVISED -

PLOT DATE = 4/25/2009

CHECKED -

REVISED -

DATE -

REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAIL: PRECAST CONCRETE BOX CULVERT SECTION**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

REVISIONS			
DRAWN	9-8-89	REVISED	12-17-01
REVISED	3-27-90	REVISED	01-10-07
REVISED	3-11-92	REVISED	
REVISED	8-16-94	REVISED	

STD. 9-49  
MODIFIED

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	D9 SAFETY FY08-1	VARIOUS	64	26
				CONTRACT NO. 78038
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

# DETAIL OF PRECAST CONCRETE BOX CULVERT END SECTION

## GENERAL NOTES

SHOP PLANS FOR THE REINFORCEMENT SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 504.04 OF THE STANDARD SPECIFICATIONS.

MINIMUM CONCRETE STRENGTH SHALL BE 5000 PSI AFTER 28 DAYS.

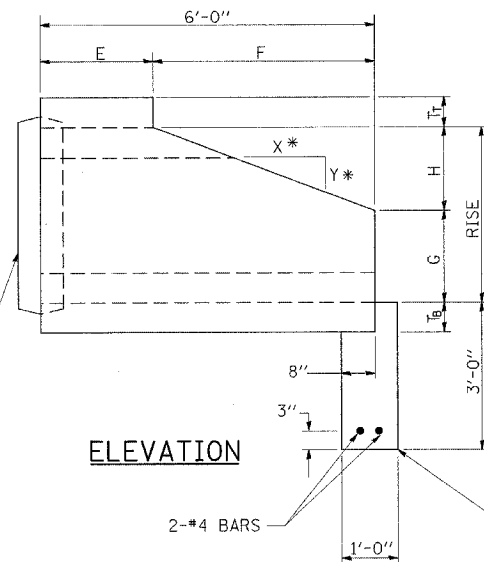
THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED WITH MASTIC IN ACCORDANCE WITH ARTICLE 1055.01 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

LIFTING HOLES SHALL BE FILLED WITH CONCRETE PLUGS AND MASTIC AFTER THE BOX SECTIONS ARE IN PLACE.

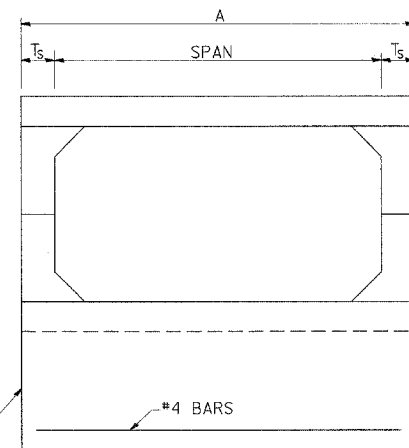
THE TERMS AS1, AS2, ETC. DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN AASHTO M273.

REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO ASTM SPECIFICATIONS A 185 OR A 497. LONGITUDINAL DISTRIBUTION REINFORCEMENT MAY CONSIST OF WELDED WIRE FABRIC OR DEFORMED BILLET-STEEL BARS CONFORMING TO AASHTO M-31, M-42, GRADE 60.

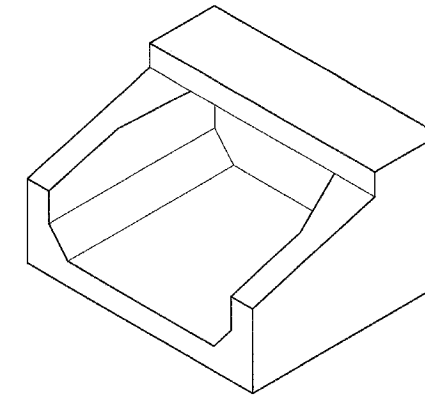
DRAINAGE OPENINGS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 503.11 OF THE STANDARD SPECIFICATIONS. LOCATION AND SPACING OF THE OPENINGS SHALL BE SHOWN ON THE SHOP DRAWINGS.



\*2:1 SLOPE MINIMUM

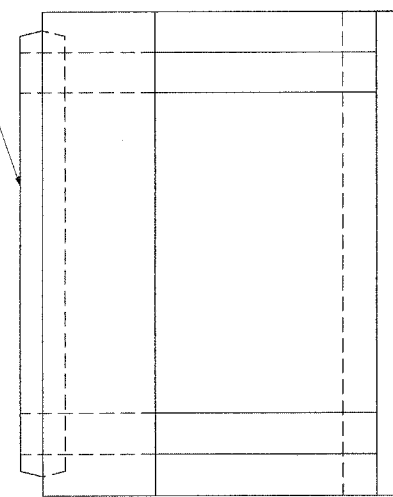


END VIEW

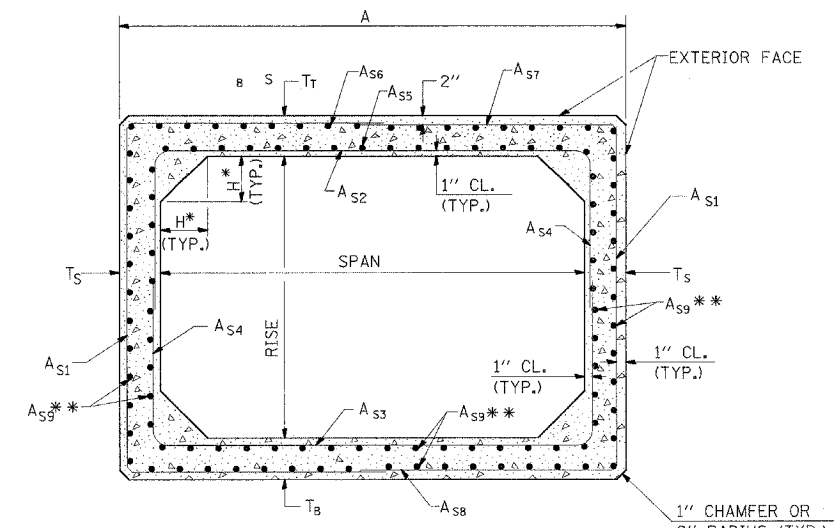


ISOMETRIC

END CONNECTION TO FIT PRECAST BOX CULVERT (BELL OR SPIGOT MAY BE OMITTED WHEN COLLARING TO AN EXISTING BOX OR HEADWALL.)



PLAN



CROSS SECTION

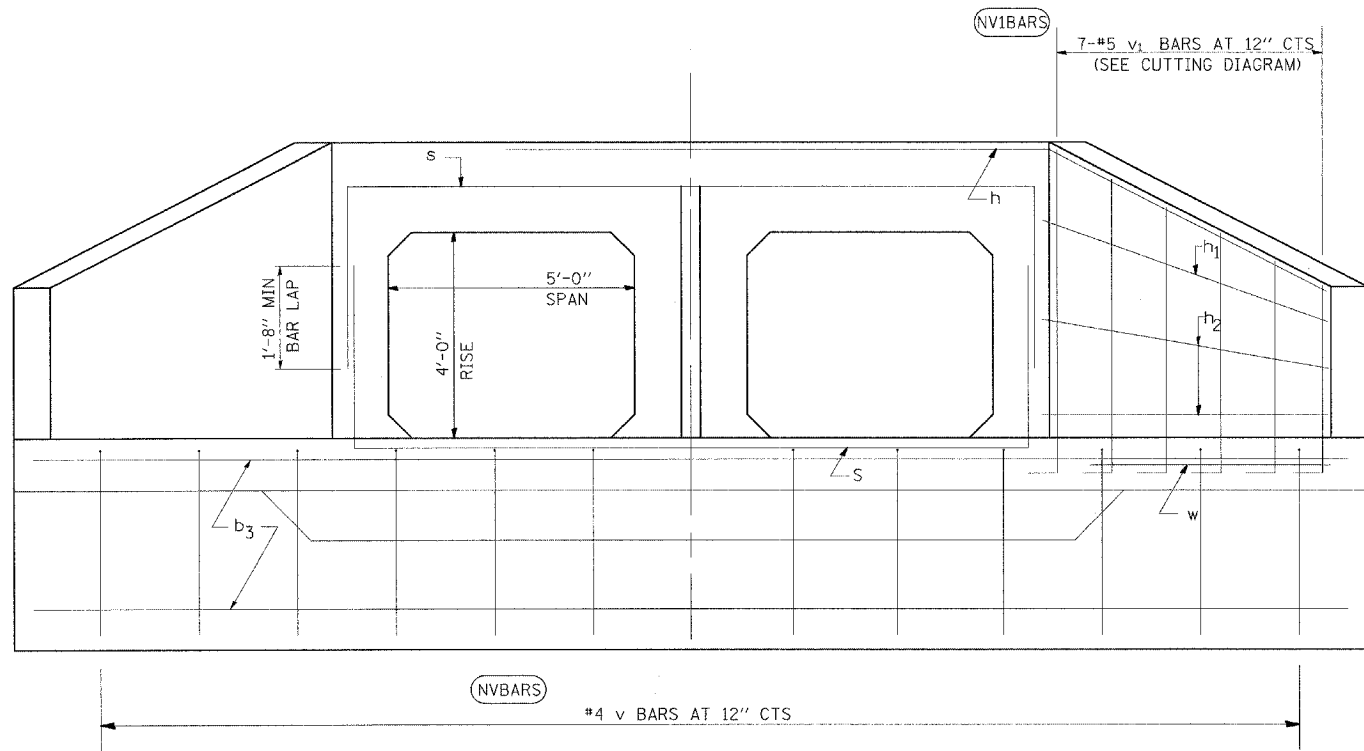
\*THE HAUNCH DIMENSION, H, IS EQUAL TO THE WALL THICKNESS, T<sub>S</sub>. \*\*THE AREA OF A<sub>S9</sub> REINFORCEMENT SHALL BE BE A MINIMUM OF 0.12 SQ. IN./FT.

## DIMENSIONS

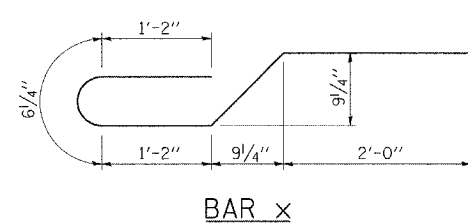
SPAN X RISE	T <sub>T</sub> (INCHES)	T <sub>B</sub> (INCHES)	T <sub>S</sub> (INCHES)	E (FT.-IN.)	F (FT.-IN.)	G (FT.-IN.)	H (FT.-IN.)	SLOPE (X:Y)
3' X 2'	7	6	4	3-0	3-0	1-0	1-0	3:1
3' X 3'	7	6	4	2-0	4-0	1-8	1-4	3:1
4' X 2'	7 1/2	6	5	3-0	3-0	1-0	1-0	3:1
4' X 3'	7 1/2	6	5	2-0	4-0	1-8	1-4	3:1
4' X 4'	7 1/2	6	5	2-0	4-0	2-0	2-0	2:1
5' X 3'	8	7	6	2-0	4-0	1-8	1-4	3:1
5' X 4'	8	7	6	2-0	4-0	2-0	2-0	2:1
5' X 5'	8	7	6					
6' X 3'	8	7	7	2-0	4-0	1-8	1-4	3:1
6' X 4'	8	7	7	2-0	4-0	2-0	2-0	2:1
6' X 5'	8	7	7	2-0	4-0	3-0	2-0	2:1
6' X 6'	8	7	7	2-0	4-0	4-0	2-0	2:1

REVISIONS	
DRAWN	9-8-89
REVISED	3-27-90
REVISED	6-14-94
REVISED	8-16-94
REVISED	01-10-07

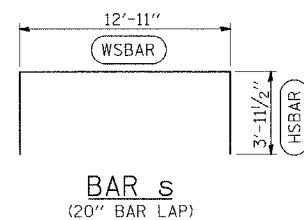
STD. 9-50 MODIFIED



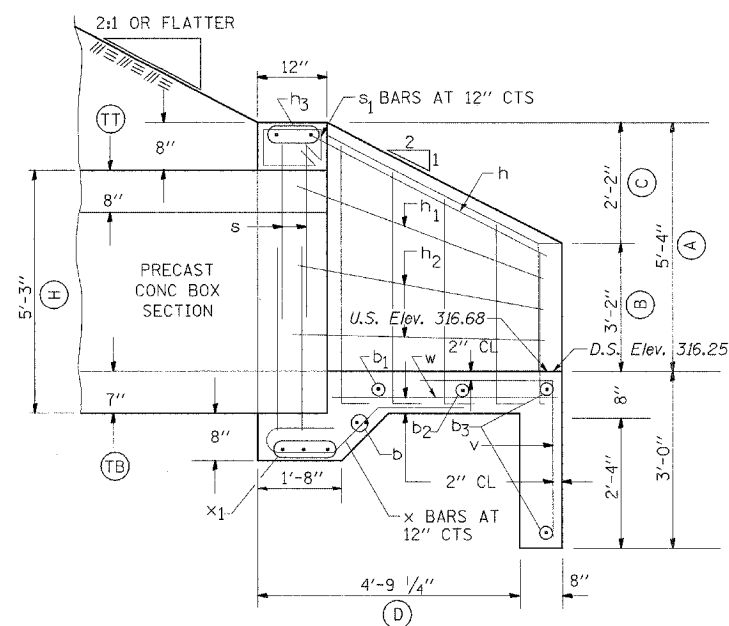
END ELEVATION



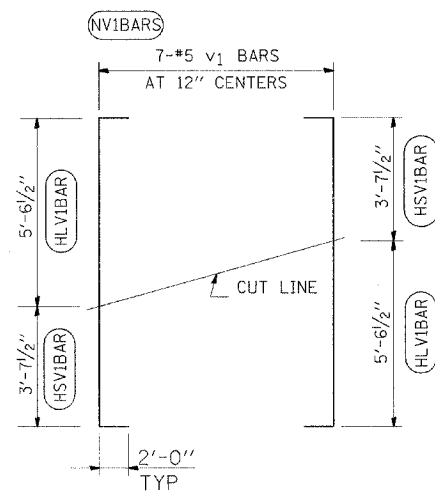
BAR x



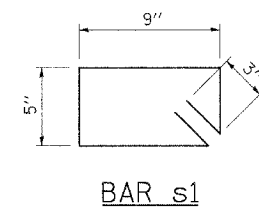
BAR s  
(20" BAR LAP)



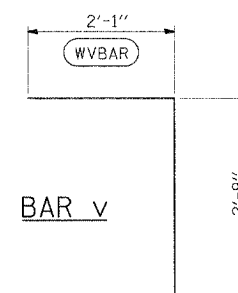
HALF SIDE ELEVATION



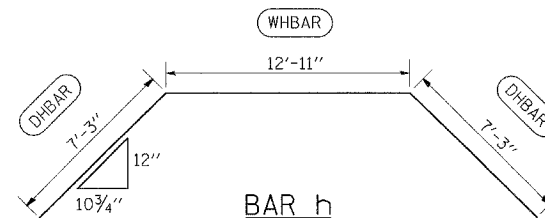
FIELD CUTTING DIAGRAM  
BARS v1



BAR s1



BAR v



BAR h

BILL OF MATERIAL

BAR SIZE	NO.	LENGTH	SHAPE
b	#5 2	14'-9"	—
b1	#4 1	17'-8"	—
b2	#4 1	20'-8"	—
b3	#4 2	22'-10"	—
h	#5 1	27'-5"	—
h1	#4 2	6'-9"	—
h2	#4 4	6'-5"	—
h3	#6 2	12'-11"	—
s	#4 4	20'-10"	—
s1	#4 13	2'-10"	—
v	#4 23	4'-10"	—
v1	#5 7	13'-2"	—
w	#4 2	6'-3"	—
x	#4 13	6'-0"	—
x1	#4 3	12'-11"	—
CONC BOX CULVERTS	CU YDS	6.0	
REINFORCEMENT BARS	LBS	520	

NOTES:

TABLE FOR ONE (1) HEADWALL ONLY.  
BAR DIMENSIONS ARE OUT TO OUT.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**CAST-IN-PLACE END SECTION**  
**DOUBLE 5'X4' BOX @ 0° SKEW**  
**AASHTO M-273**

NOTES:

EXPOSED EDGES SHALL BE BEVELED 3/4".  
REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31, M-42 OR M-53, GRADE 60.  
OMIT BELL OR SPIGOT ON END PRECAST BOX CULVERT SECTION.

REVISIONS
DRAWN 2-22-90
REVISED 8-22-94
REVISED
REVISED

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DESIGNED -  
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CHECKED -  
DATE -

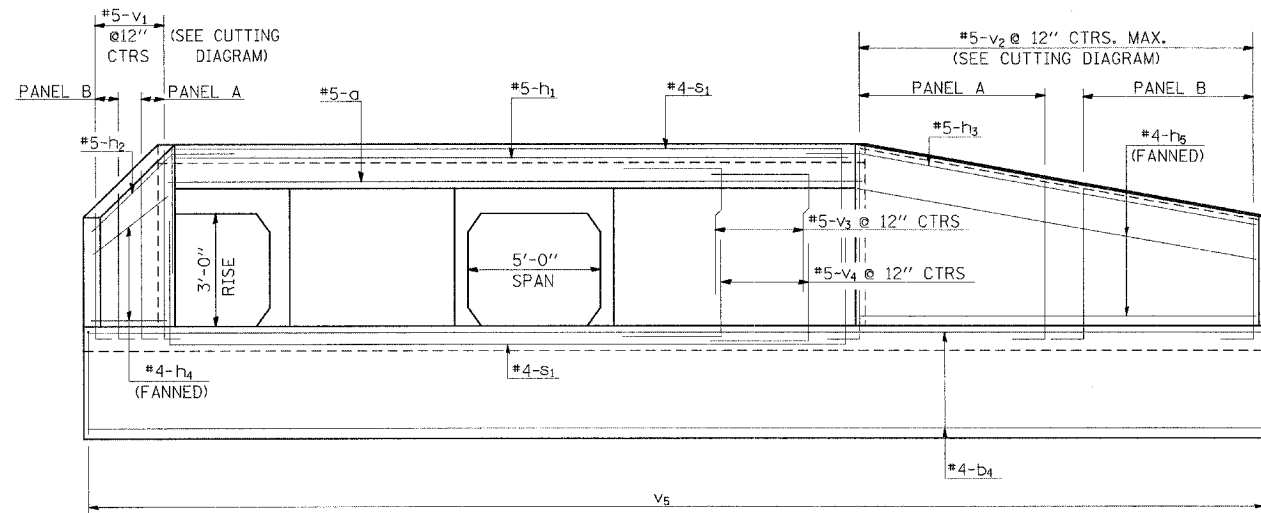
REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

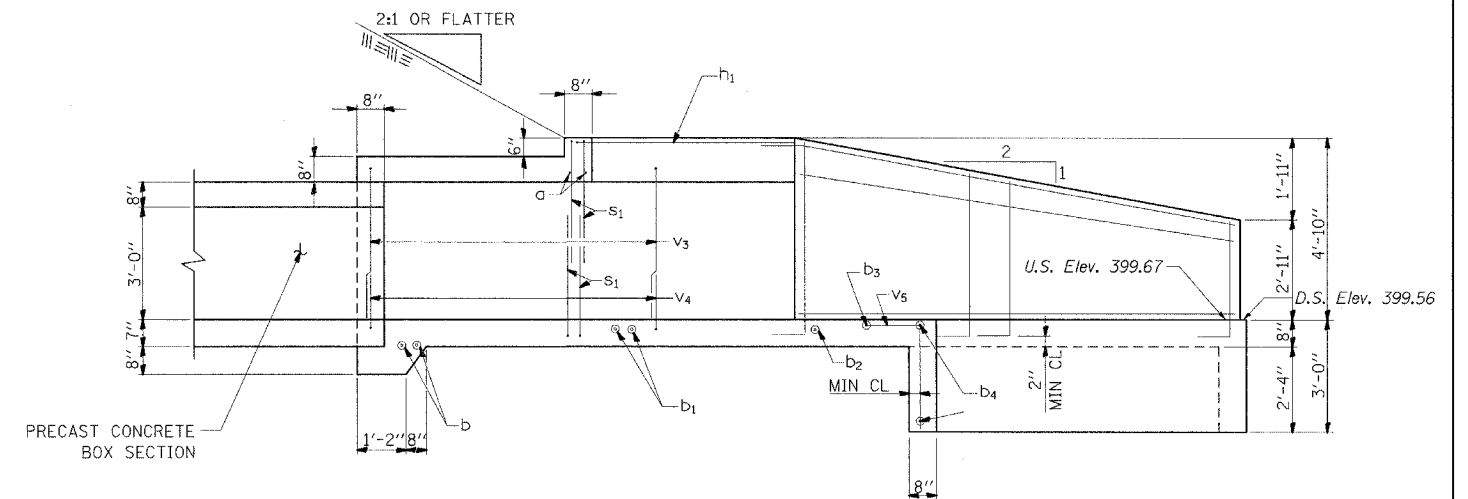
DETAIL: CAST-IN-PLACE APRON END SECTION STATION 166+22

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

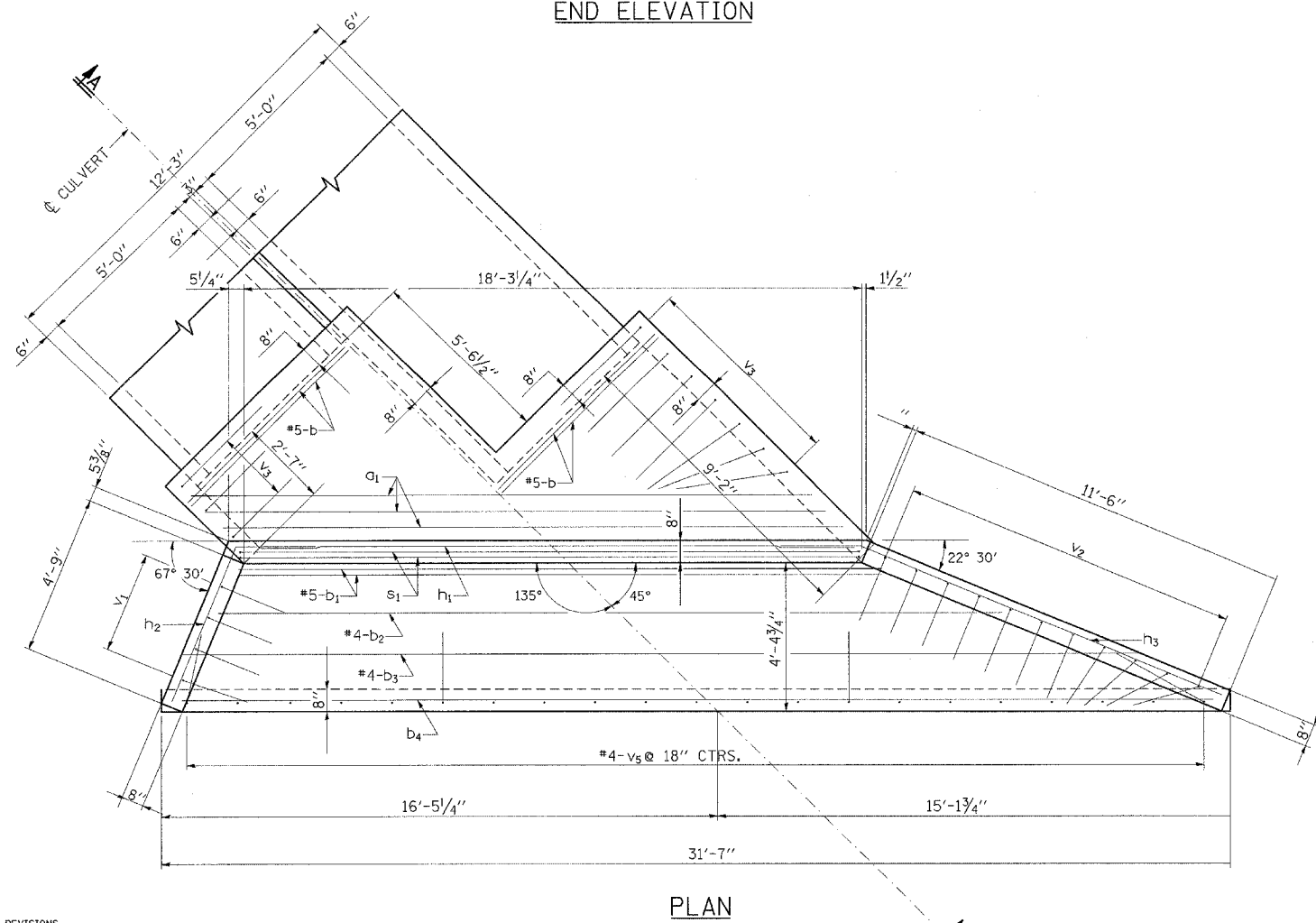
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	D9 SAFETY FY08-1	VARIOUS	64	28
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 78038	



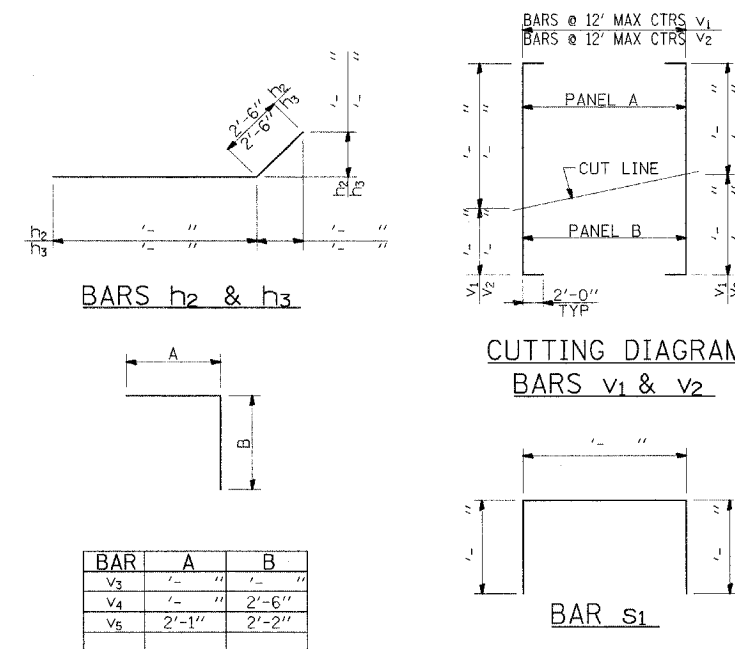
END ELEVATION



SECTION A-A



PLAN



CUTTING DIAGRAM  
BARS v1 & v2

BILL OF MATERIAL

BAR SIZE	NO.	LENGTH	SHAPE
a	#5	2	1'-0"
b	#5	2	1'-0"
b1	#5	2	1'-0"
b2	#4	1	1'-0"
b3	#4	1	1'-0"
b4	#4	1	1'-0"
b5	#4	1	1'-0"
h1	#5	2	1'-0"
h2	#5	2	1'-0"
h3	#5	2	1'-0"
h4	#4	1	1'-0"
h5	#4	1	1'-0"
v1	#5	1	1'-0"
v2	#5	1	1'-0"
v3	#5	1	1'-0"
v4	#5	1	1'-0"
v5	#4	1	1'-0"
s1	#4	4	1'-0"
CONC BOX CULVERTS			CU YDS 14.8
REINF BARS			LBS 1050

NOTES:

TABLE FOR ONE (1) HEADWALL ONLY.  
BAR DIMENSIONS ARE OUT TO OUT.

NOTES:

EXPOSED EDGES SHALL BE BEVELED 3/4".  
REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31, M-42, M-53, GRADE 60.

CAST-IN-PLACE END SECTION  
DOUBLE 5'X3' BOX @ 45° SKEW  
AASHTO M-273

REVISIONS
REDRAWN 9-22-94
REVISED 12-18-01
REVISED 3-27-08

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std\_9-61

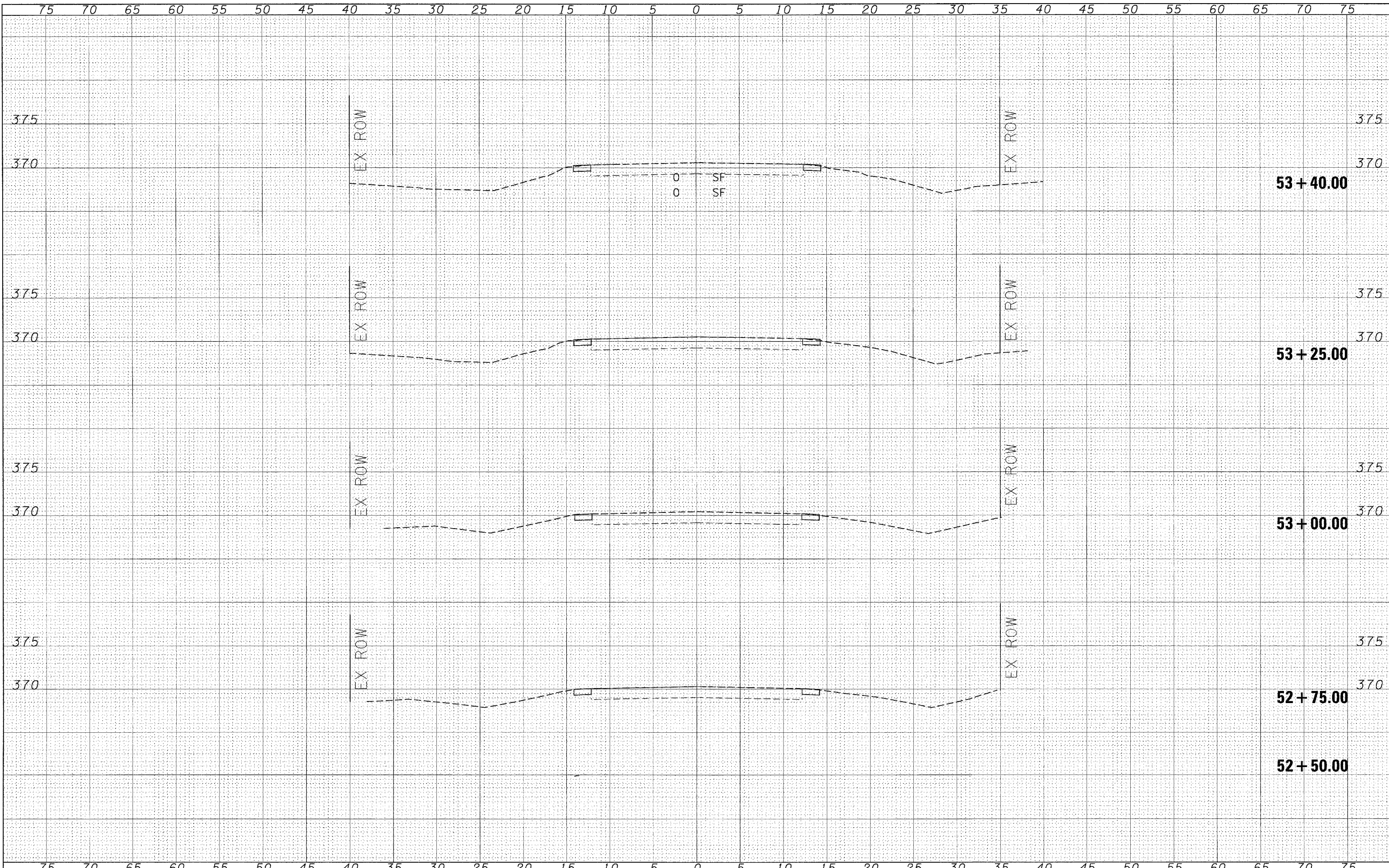
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	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAIL: CAST-IN-PLACE APRON END SECTION STATION 240+57

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	D9 SAFETY FY08-1	VARIOUS	64	29
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 78038	



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

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE
AREAS	AREAS CHECKED
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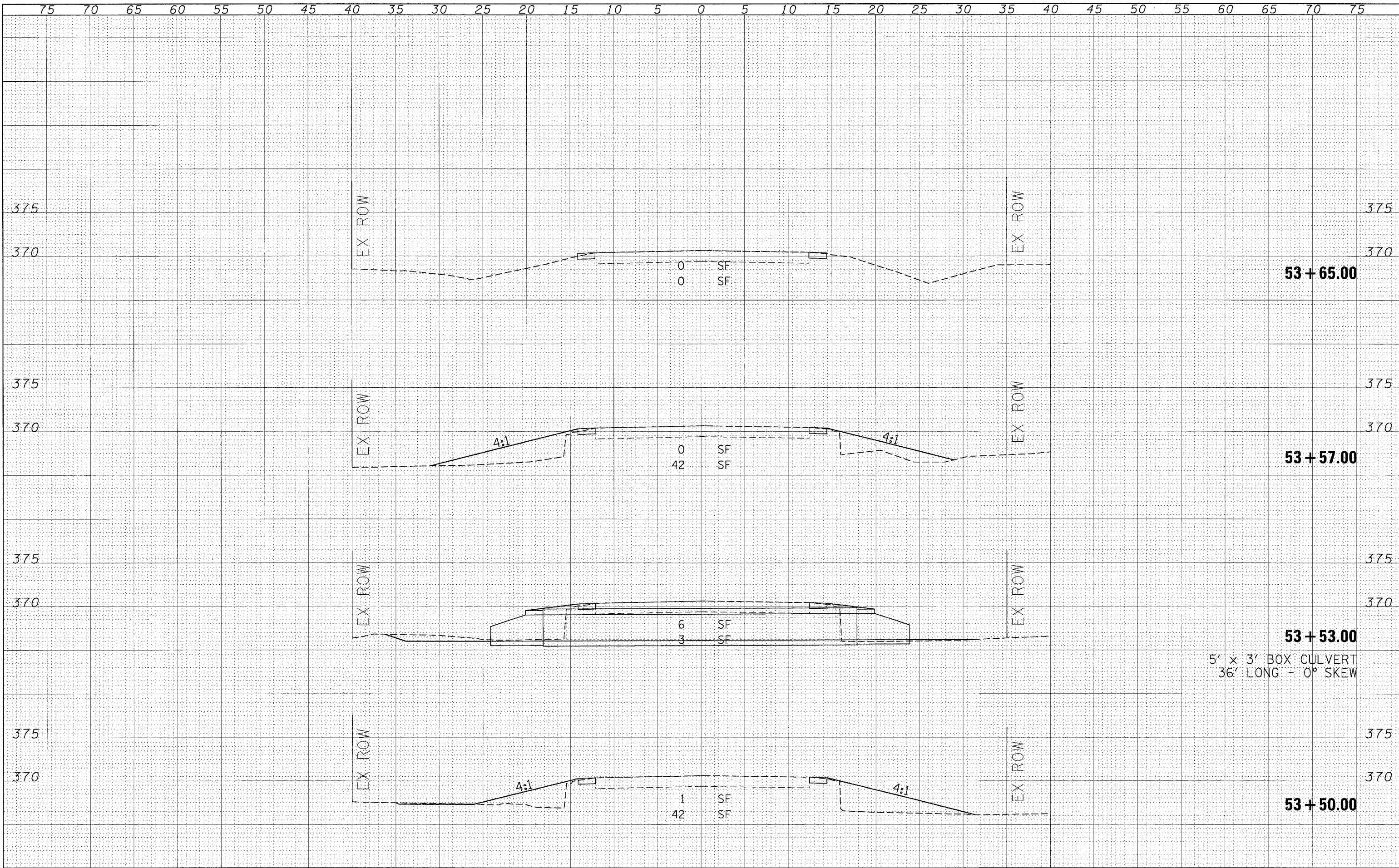
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - LOCATION 1**

SCALE: SHEET NO. OF SHEETS STA. 52+50.00 TO STA. 53+40.00

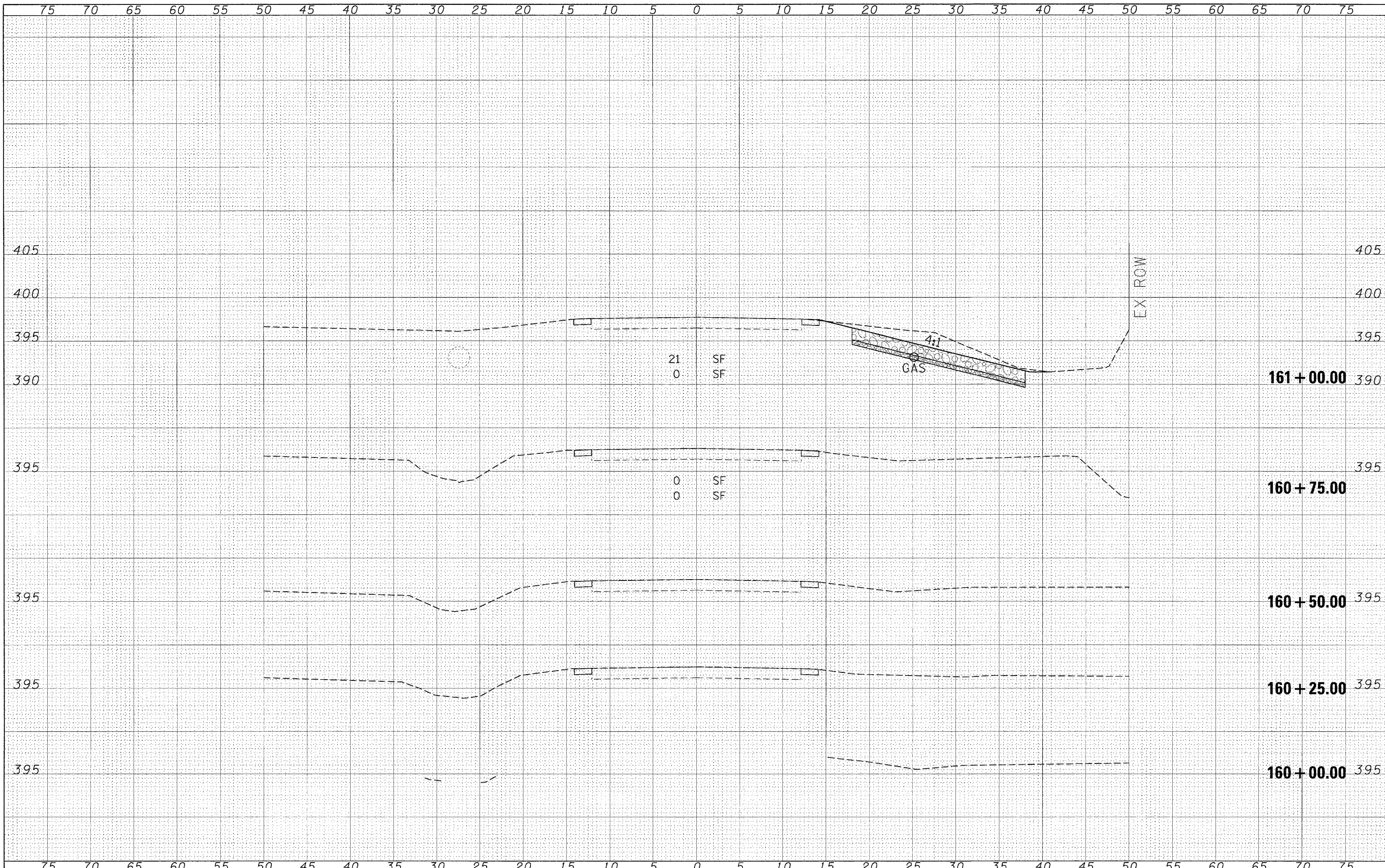
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	D9 SAFETY FY08-1	VARIOUS	64	30
CONTRACT NO. 78038				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FINAL SURVEY BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED PLOTTED \_\_\_\_\_  
 NOTE BOOK TEMPLATE \_\_\_\_\_  
 AREAS AREAS CHECKED \_\_\_\_\_

ORIGINAL SURVEY BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED PLOTTED \_\_\_\_\_  
 NOTE BOOK TEMPLATE \_\_\_\_\_  
 AREAS AREAS CHECKED \_\_\_\_\_

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	PLOT SCALE = 5.0000' / 1"	DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. 53+50.00	TO STA. 53+65.00	CONTRACT NO. 78038		
	PLOT DATE = 3/18/2008	CHECKED -	REVISED -								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -										



FINAL	SURVEY	DATE
SURVEYED	PLOTTED	
NOTE BOOK	TEMPLATE	
AREAS	CHECKED	
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ORIGINAL	SURVEY	DATE
SURVEYED	PLOTTED	
NOTE BOOK	TEMPLATE	
AREAS	CHECKED	
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DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - LOCATION 2**

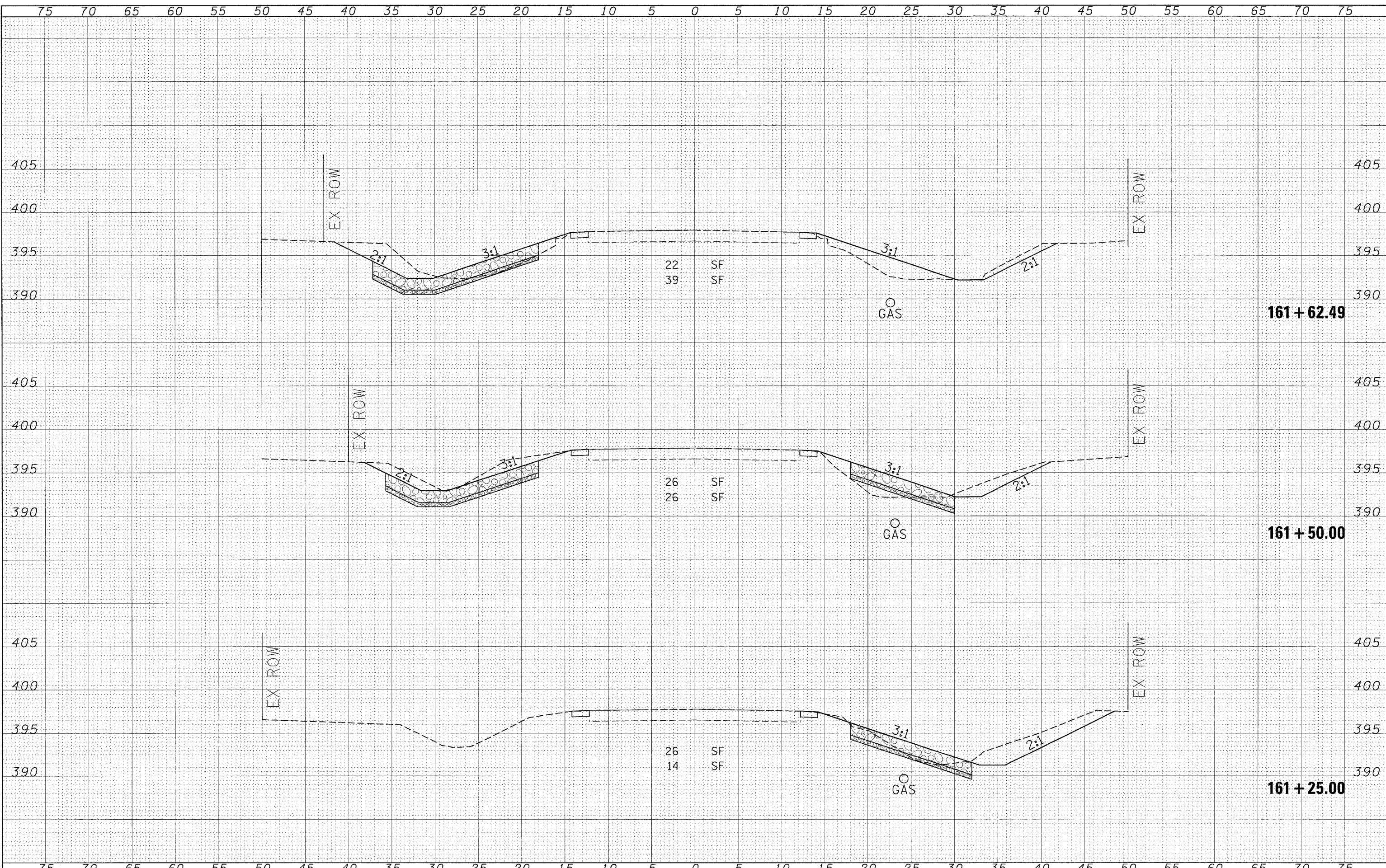
SCALE: SHEET NO. OF SHEETS STA. 160+00.00 TO STA. 161+00.00

F.A.P. RTE. 881	SECTION D9 SAFETY FY08-1	COUNTY VARIOUS	TOTAL SHEETS 64	SHEET NO. 32
CONTRACT NO. 78038			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLOTTED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 AREAS CHECKED: \_\_\_\_\_

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
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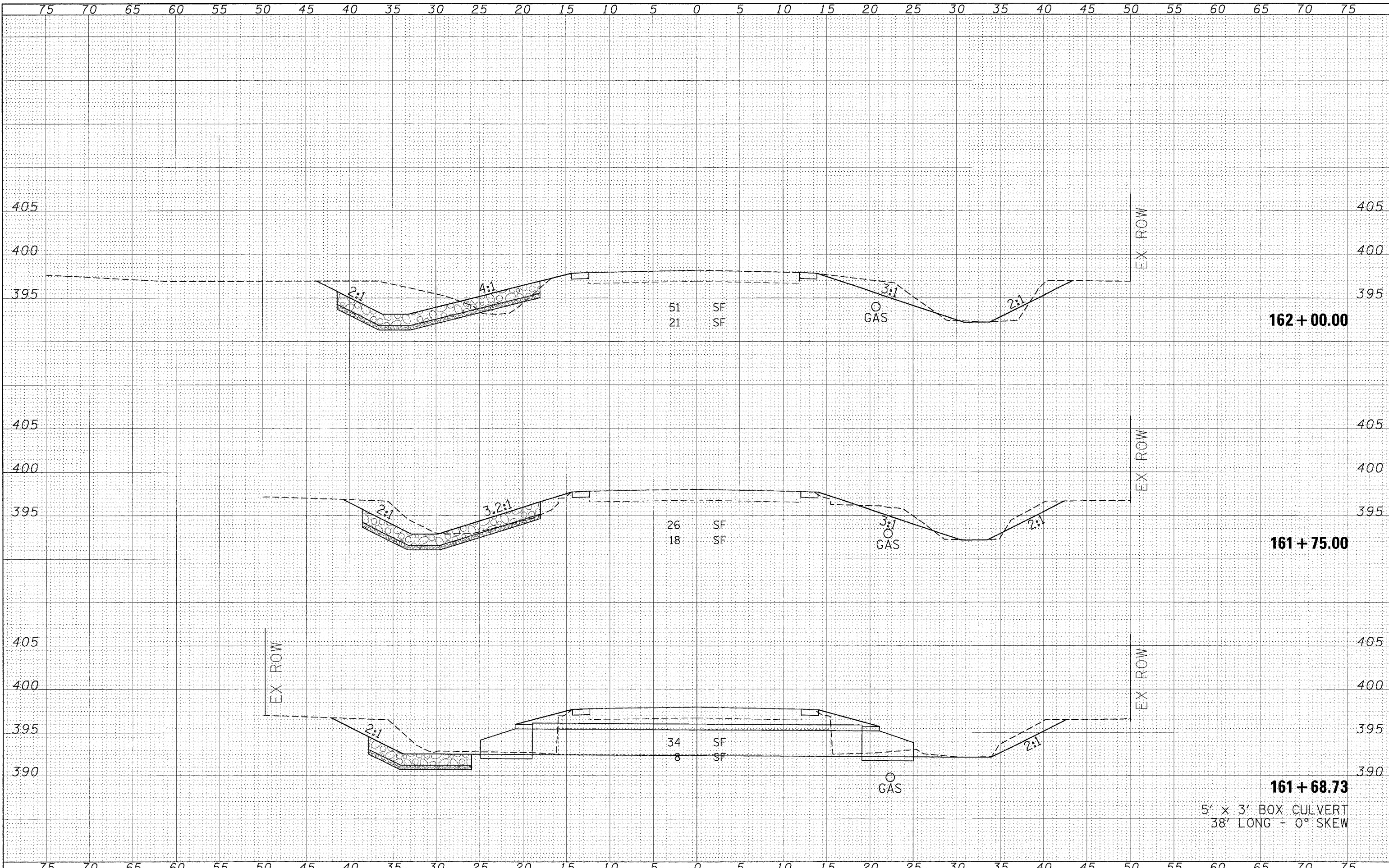
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DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - LOCATION 2**  
 SCALE: \_\_\_\_\_ SHEET NO. \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. 161+25.00 TO STA. 161+62.49

F.A.P. RTE. 881	SECTION 09 SAFETY FY08-1	COUNTY VARIOUS	TOTAL SHEETS 64	SHEET NO. 33
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78038	



162 + 00.00

161 + 75.00

161 + 68.73

5' x 3' BOX CULVERT  
38' LONG - 0° SKEW

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - LOCATION 2

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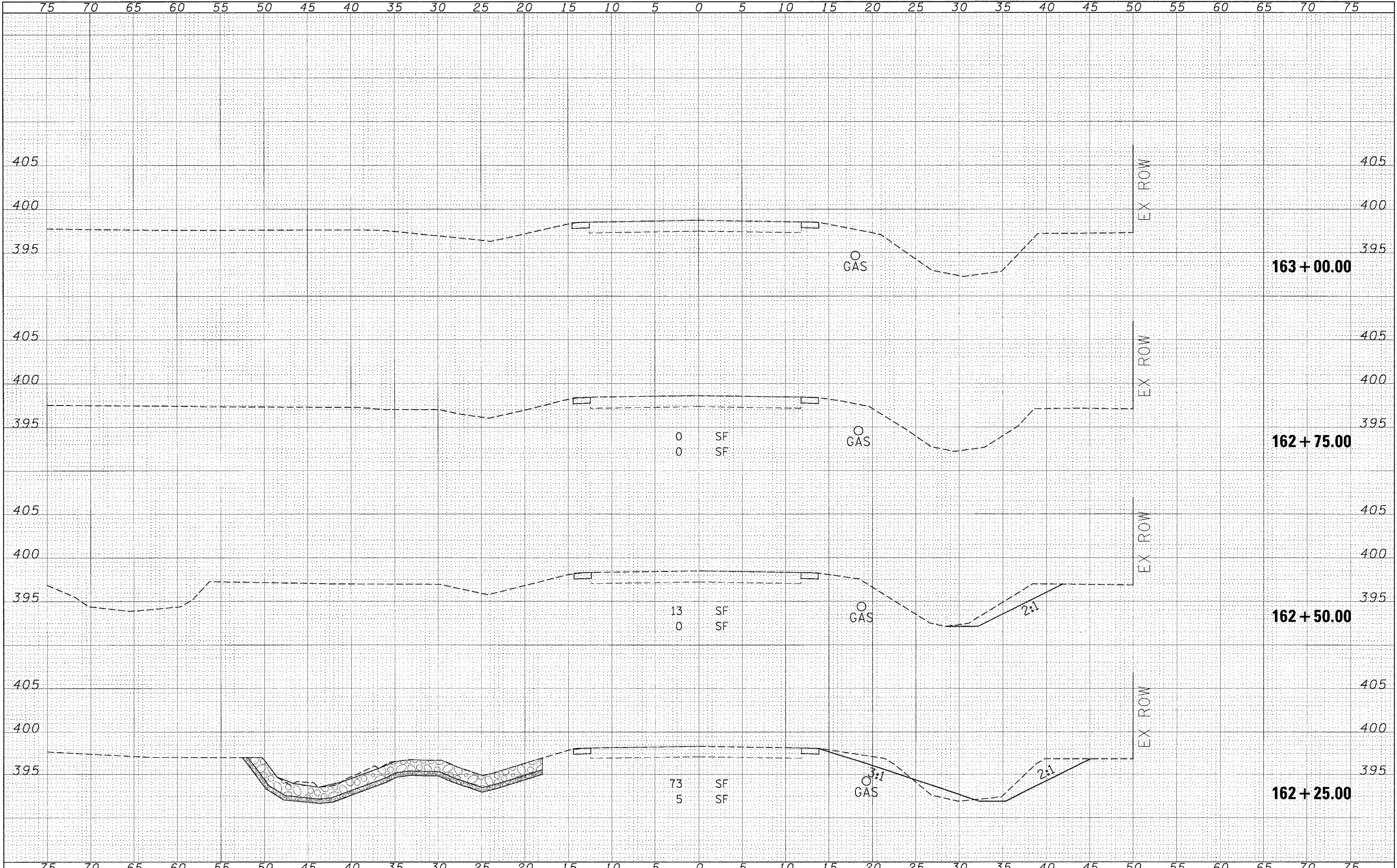
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CHECKED -	REVISED -
DATE -	REVISED -

SCALE:	SHEET NO.	OF	SHEETS	STA. 161+68.73	TO STA. 162+00.00
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	D9 SAFETY FY08-1	VARIOUS	64	34
CONTRACT NO. 78038				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FINAL SURVEY  
 SURVEYED PLOTTED  
 NOTE BOOK TEMPLATE  
 AREAS CHECKED

ORIGINAL SURVEY  
 SURVEYED PLOTTED  
 NOTE BOOK TEMPLATE  
 AREAS CHECKED



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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DATE	
BY	
ORIGINAL	
SURVEY	
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AREAS	
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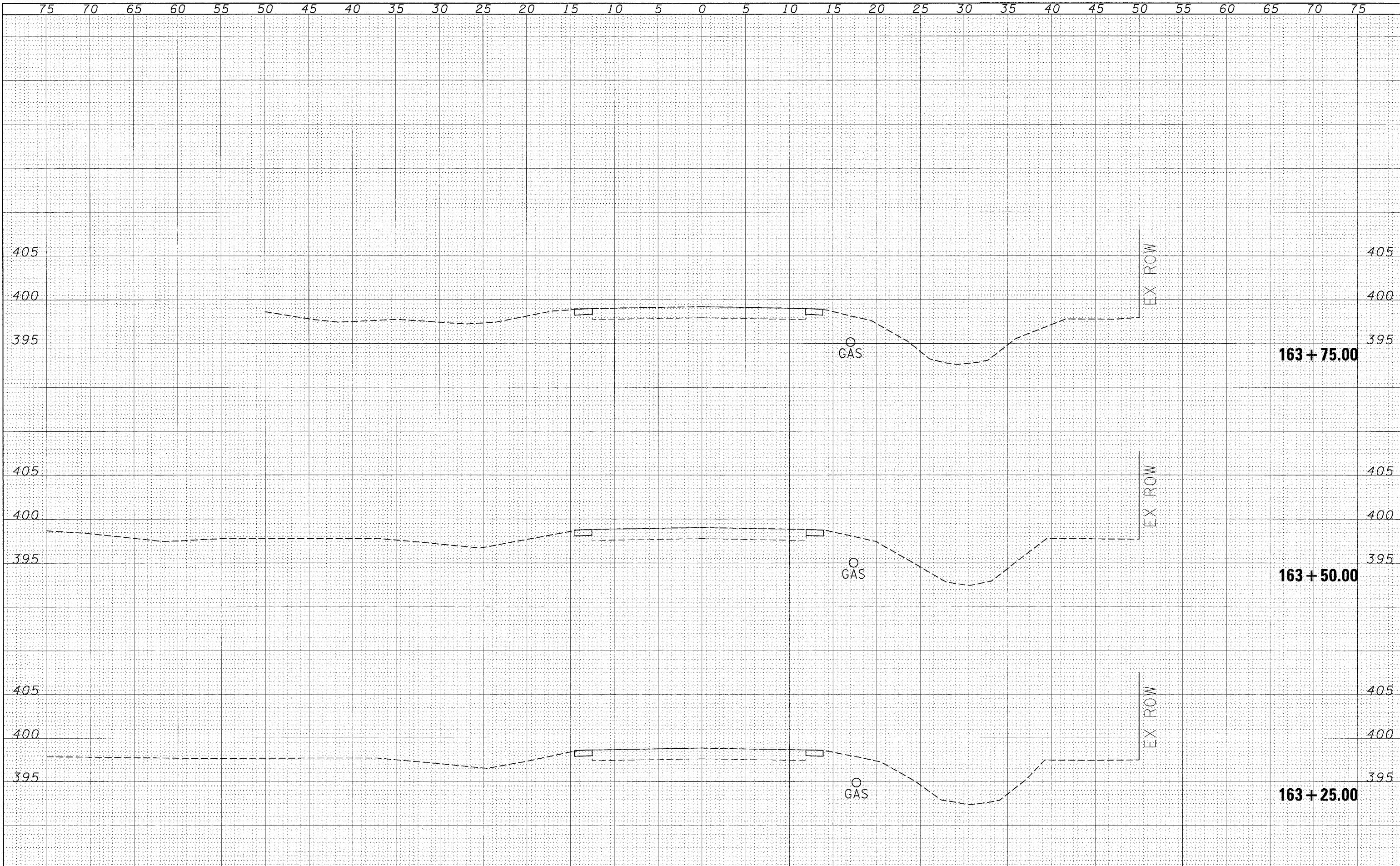
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 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - LOCATION 2**  
 SCALE: SHEET NO. OF SHEETS STA. 162+25.00 TO STA. 163+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	D9 SAFETY FY08-1	VARIOUS	64	35
CONTRACT NO. 78038				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



BY	DATE
SURVEYED	
FLIPPED	
TEMPLATE	
AREAS	
CHECKED	
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BY	DATE
SURVEYED	
FLIPPED	
TEMPLATE	
AREAS	
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	PLOT DATE = 3/18/2009	DATE -	REVISED -										

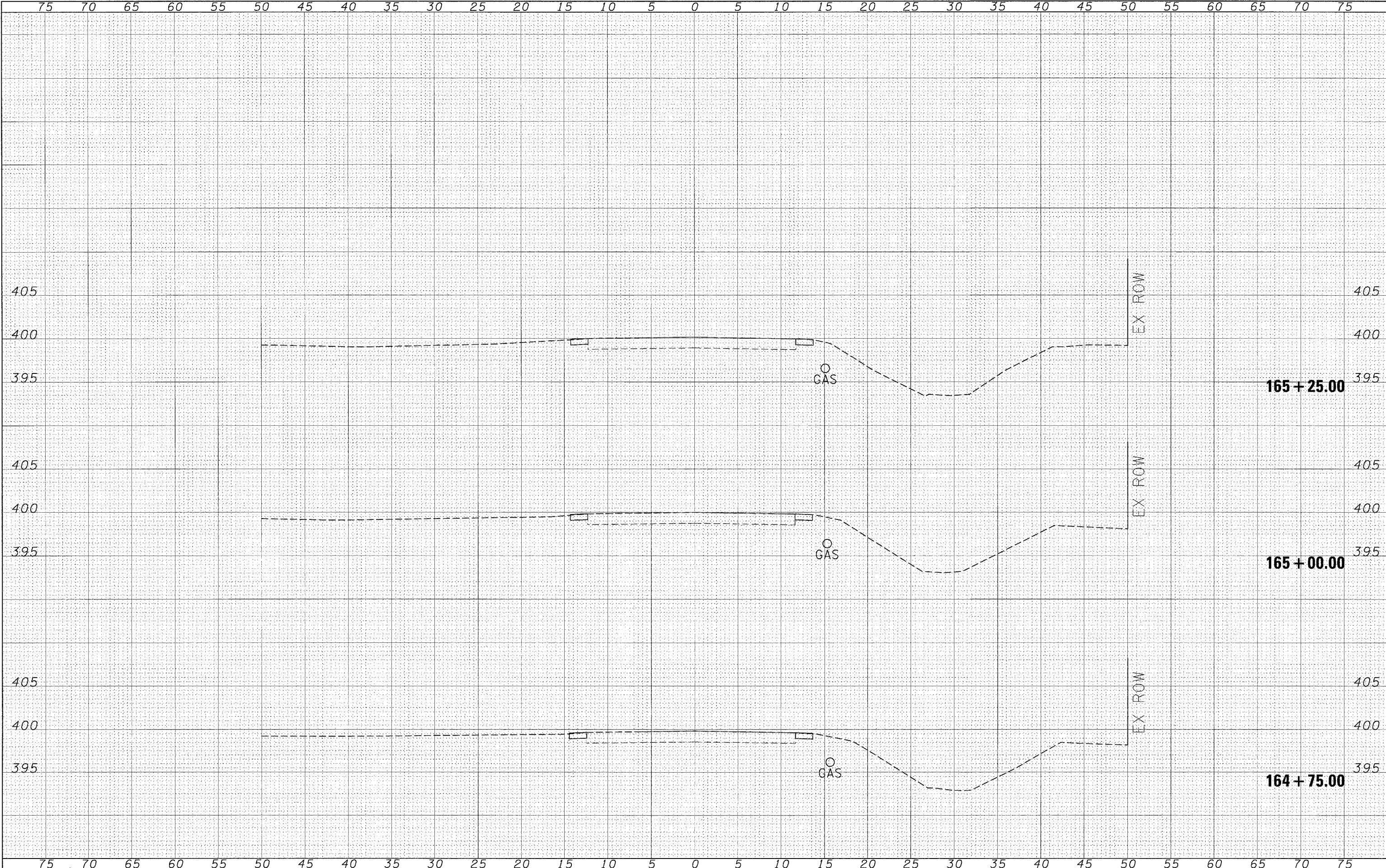
**163 + 75.00**

**163 + 50.00**

**163 + 25.00**

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLANNED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 AREAS CHECKED: \_\_\_\_\_

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLANNED: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 AREAS CHECKED: \_\_\_\_\_



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

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

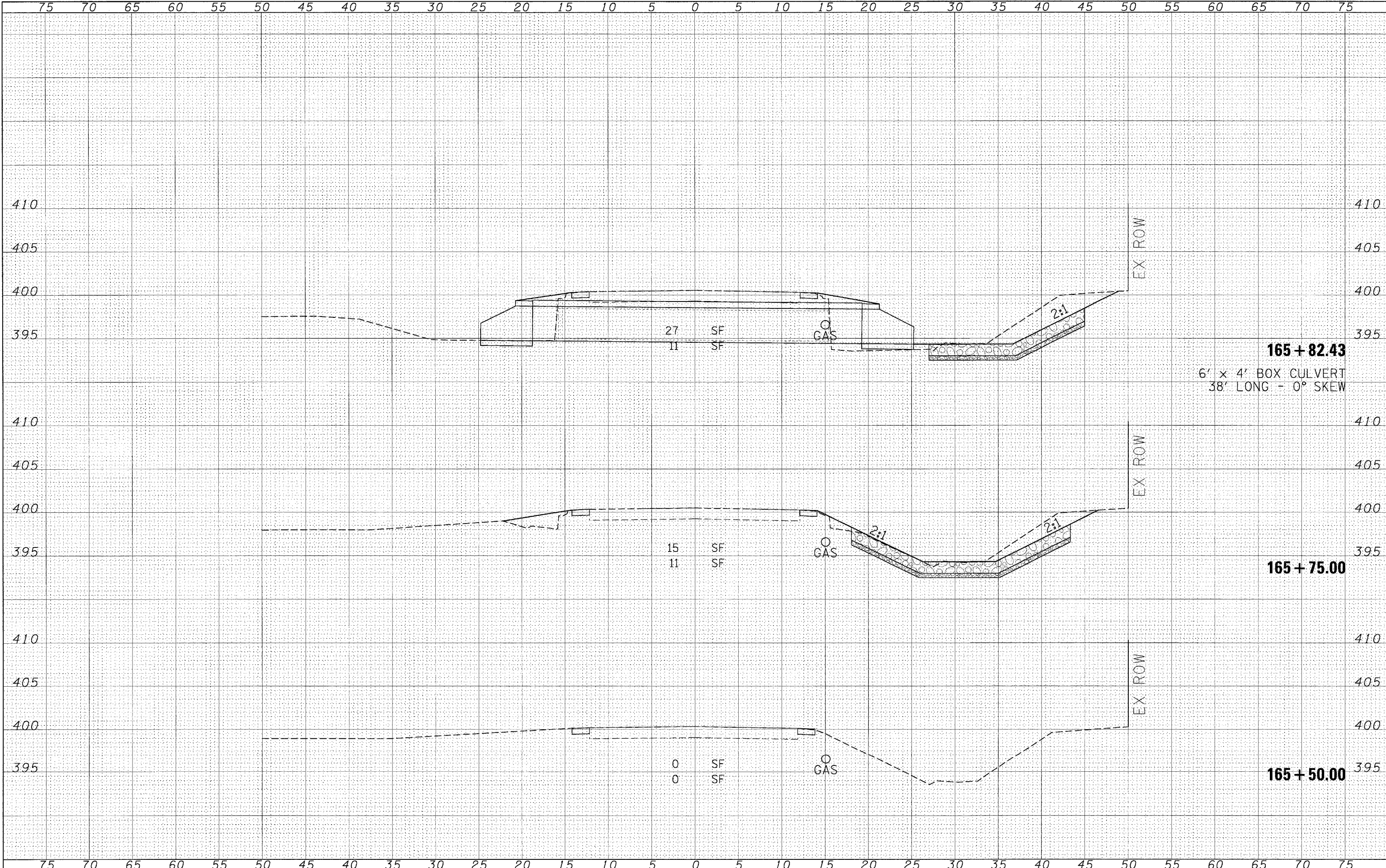
**CROSS SECTIONS - LOCATION 3**

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. 164+75.00 TO STA. 165+25.00

F.A.P. RTE. 881	SECTION D9 SAFETY FY08-1	COUNTY VARIOUS	TOTAL SHEETS 64	SHEET NO. 37
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78038	

BY \_\_\_\_\_ DATE \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_

BY \_\_\_\_\_ DATE \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_



**165 + 82.43**  
 6' x 4' BOX CULVERT  
 38' LONG - 0° SKEW

**165 + 75.00**

**165 + 50.00**

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DESIGNED -  
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 CHECKED -  
 DATE -

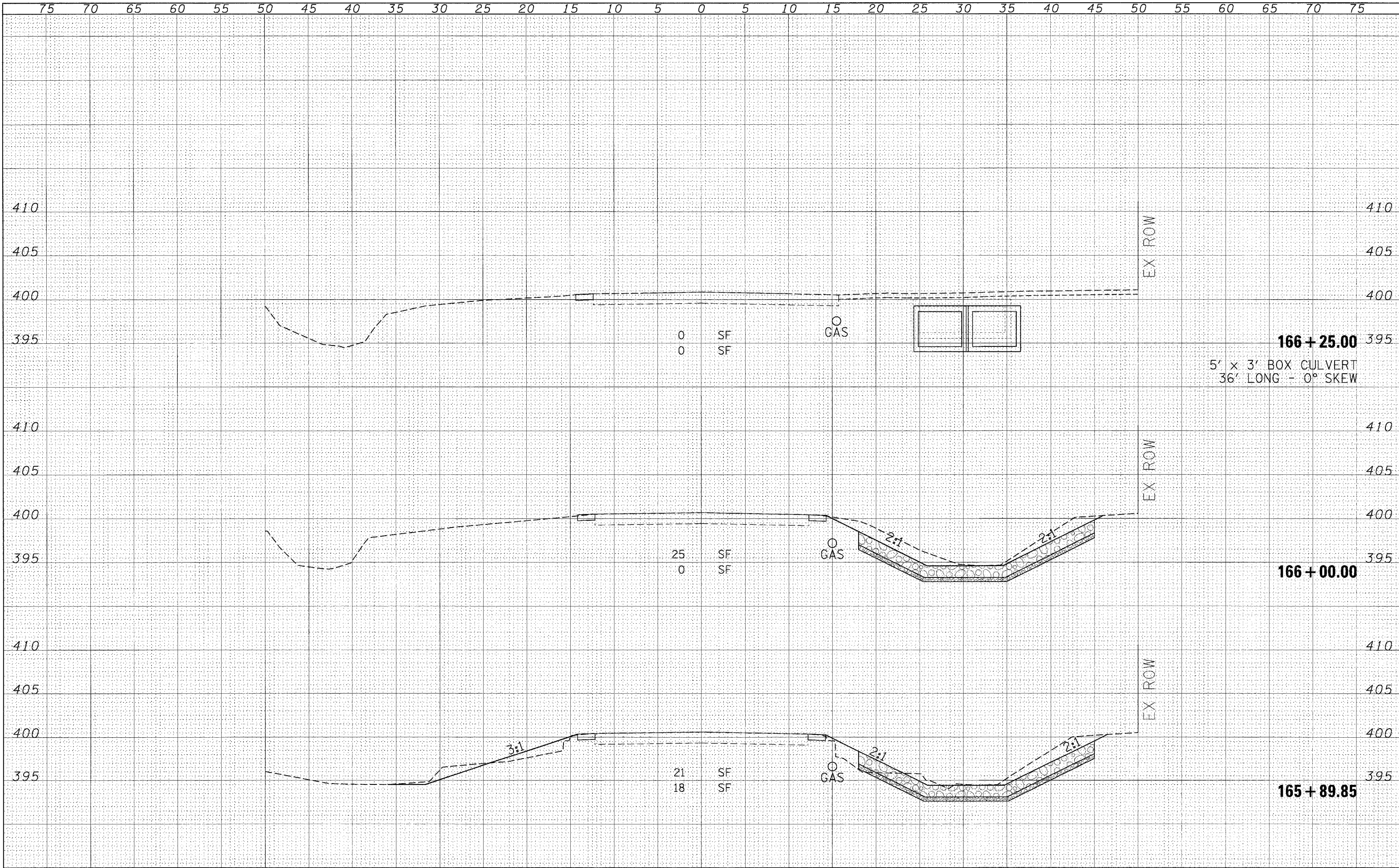
REVISED -  
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 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - LOCATION 3**

SCALE: SHEET NO. OF SHEETS STA. 165+50.00 TO STA. 165+82.43

F.A.P. RTE. 881	SECTION D9 SAFETY FY08-1	COUNTY VARIOUS	TOTAL SHEETS 64	SHEET NO. 38
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 78038	



**166 + 25.00**  
 5' x 3' BOX CULVERT  
 36' LONG - 0° SKEW

**166 + 00.00**

**165 + 89.85**

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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 PLOT SCALE = 5.0000' / IN.  
 PLOT DATE = 3/18/2008

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DATE -	REVISIONS

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DATE -	REVISIONS

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS - LOCATION 3			
SCALE:	SHEET NO.	OF SHEETS	STA. 165+89.85 TO STA. 166+25.00

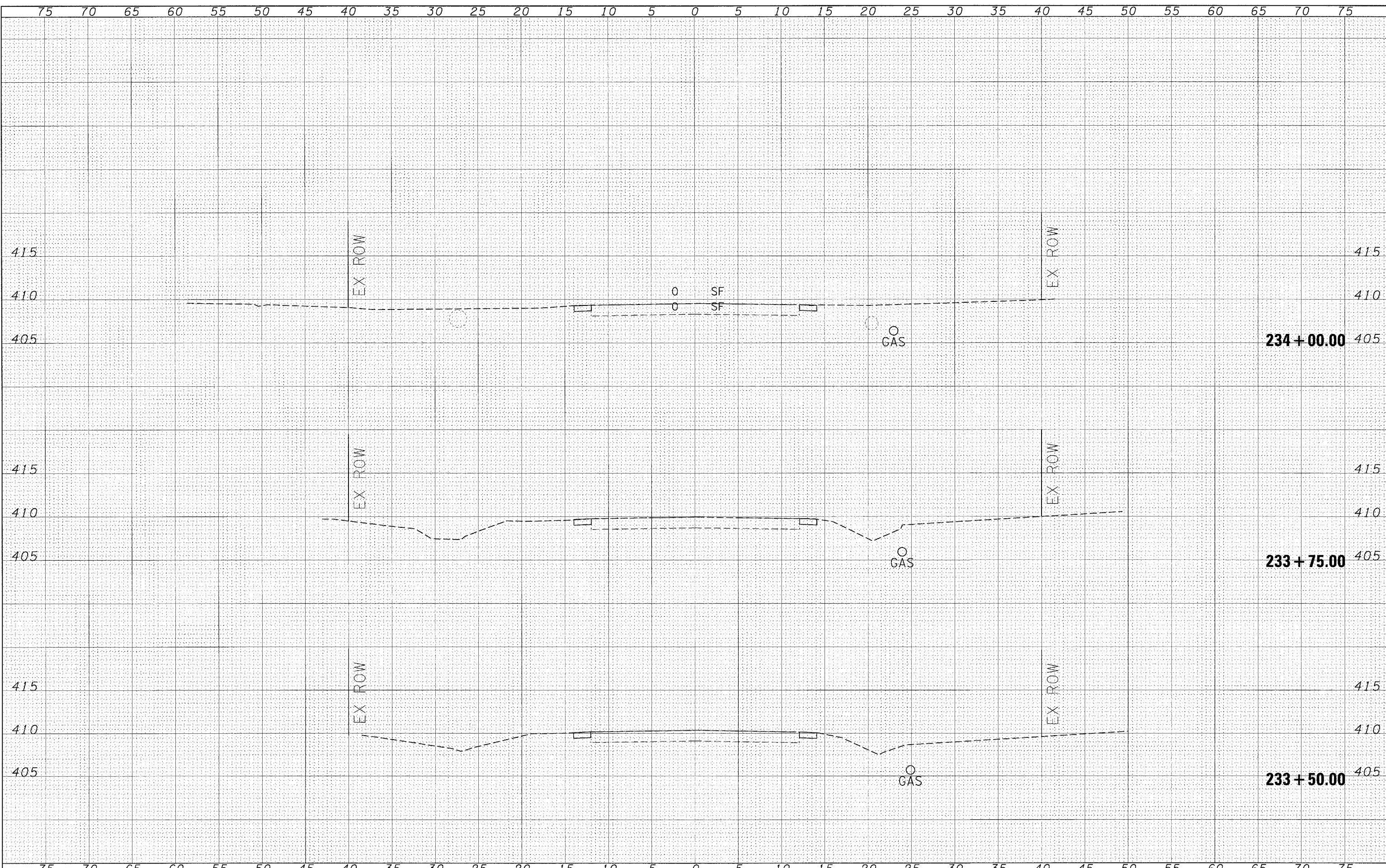
F.A.P. RTE. 881	SECTION D9 SAFETY FY08-1	COUNTY VARIOUS	TOTAL SHEETS 64	SHEET NO. 39
CONTRACT NO. 78038			ILLINOIS FED. AID PROJECT	





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FILE NAME = c:\projects\d901907\ss\sheets.m32

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

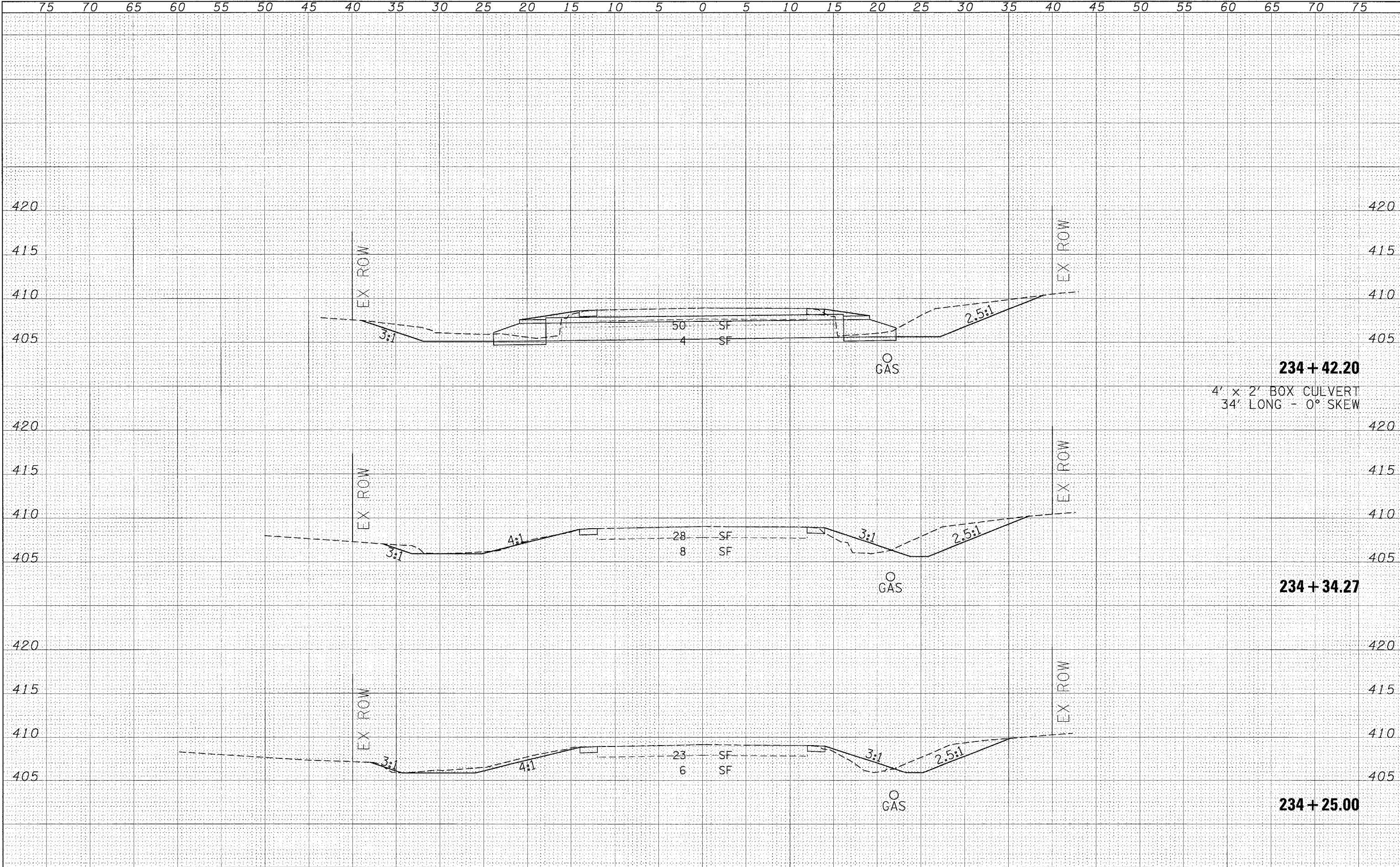
**CROSS SECTIONS - LOCATION 4**

SCALE: SHEET NO. OF SHEETS STA. 233+50.00 TO STA. 234+00.00

F.A.P. RTE. 881	SECTION D9 SAFETY FY08-1	COUNTY VARIOUS	TOTAL SHEETS 64	SHEET NO. 41
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78038	

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

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



**234 + 42.20**  
 4' x 2' BOX CULVERT  
 34' LONG - 0° SKEW

**234 + 34.27**

**234 + 25.00**

FILE NAME = c:\projects\d901\07\sz=sheets.m32	USER NAME = thomashf	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS - LOCATION 4</b>			F.A.P. RTE. 881	SECTION D9 SAFETY FY08-1	COUNTY VARIOUS	TOTAL SHEETS 64	SHEET NO. 42
		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. 234+25.00	TO STA. 234+42.20	CONTRACT NO. 78038	
		CHECKED -	REVISED -						FED. ROAD DIST. NO.	ILLINOIS' FED. AID PROJECT		
		PLOT DATE = 3/18/2008	DATE -									

FINAL  
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NOTE BOOK  
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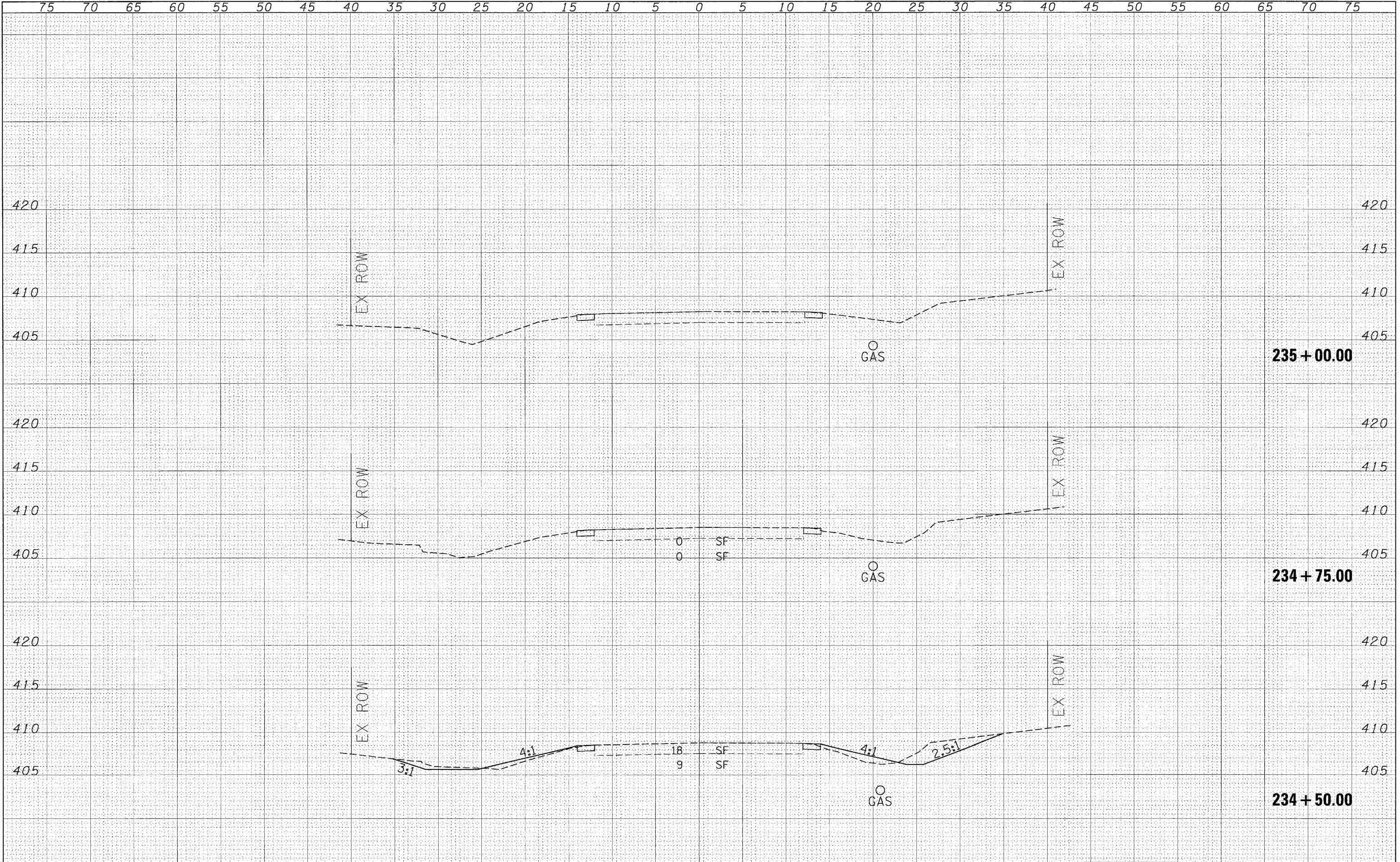
DATE

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NOTE BOOK  
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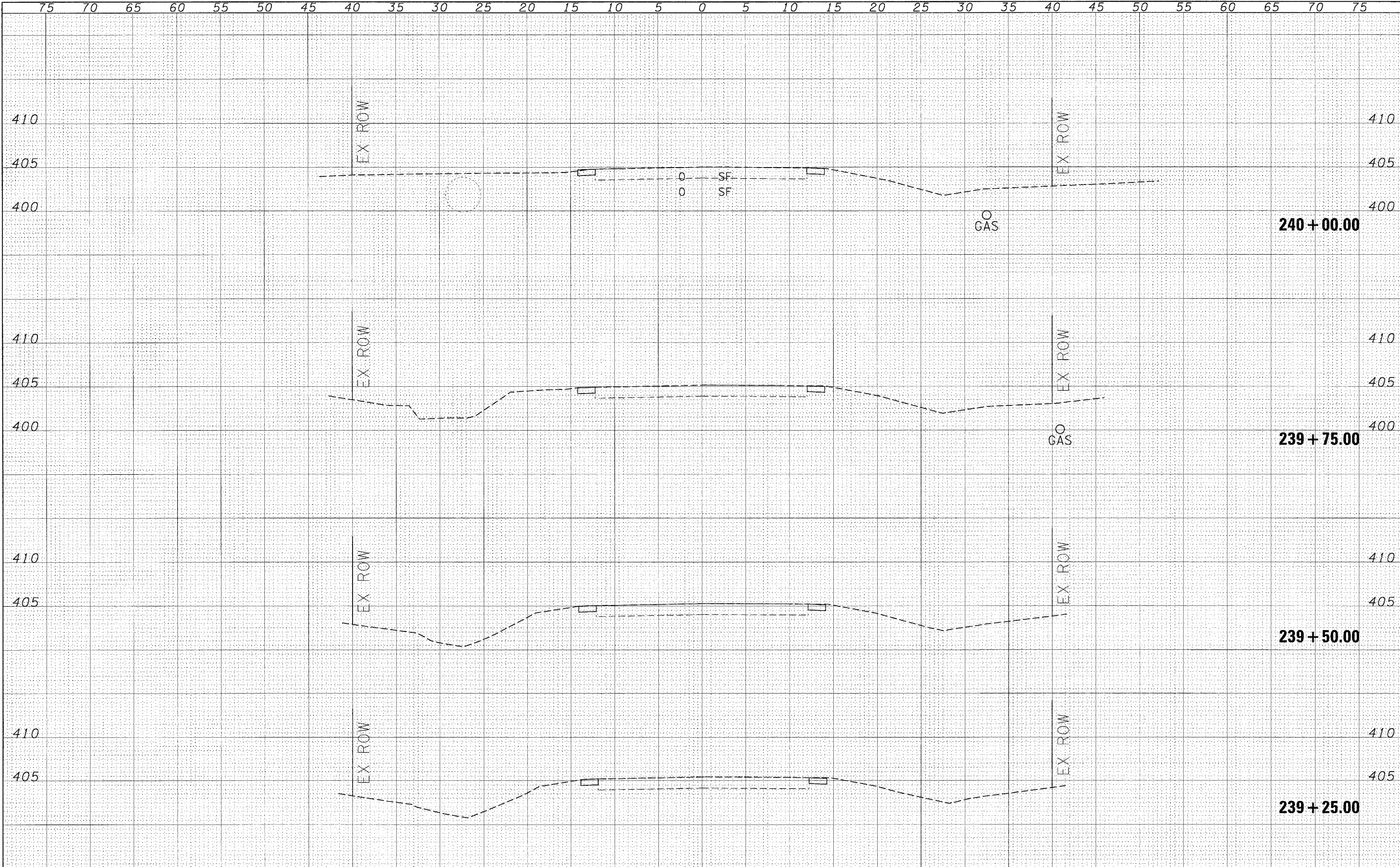
DATE



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c:\projects\4901907\xs-sheets.m32		DRAWN -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. 234+50.00 TO STA. 235+00.00				CONTRACT NO. 78038				
PLOT SCALE = 5,000' / IN.		CHECKED -	REVISED -						FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				
PLOT DATE = 3/18/2008		DATE -	REVISED -										

FINAL SURVEY BY DATE  
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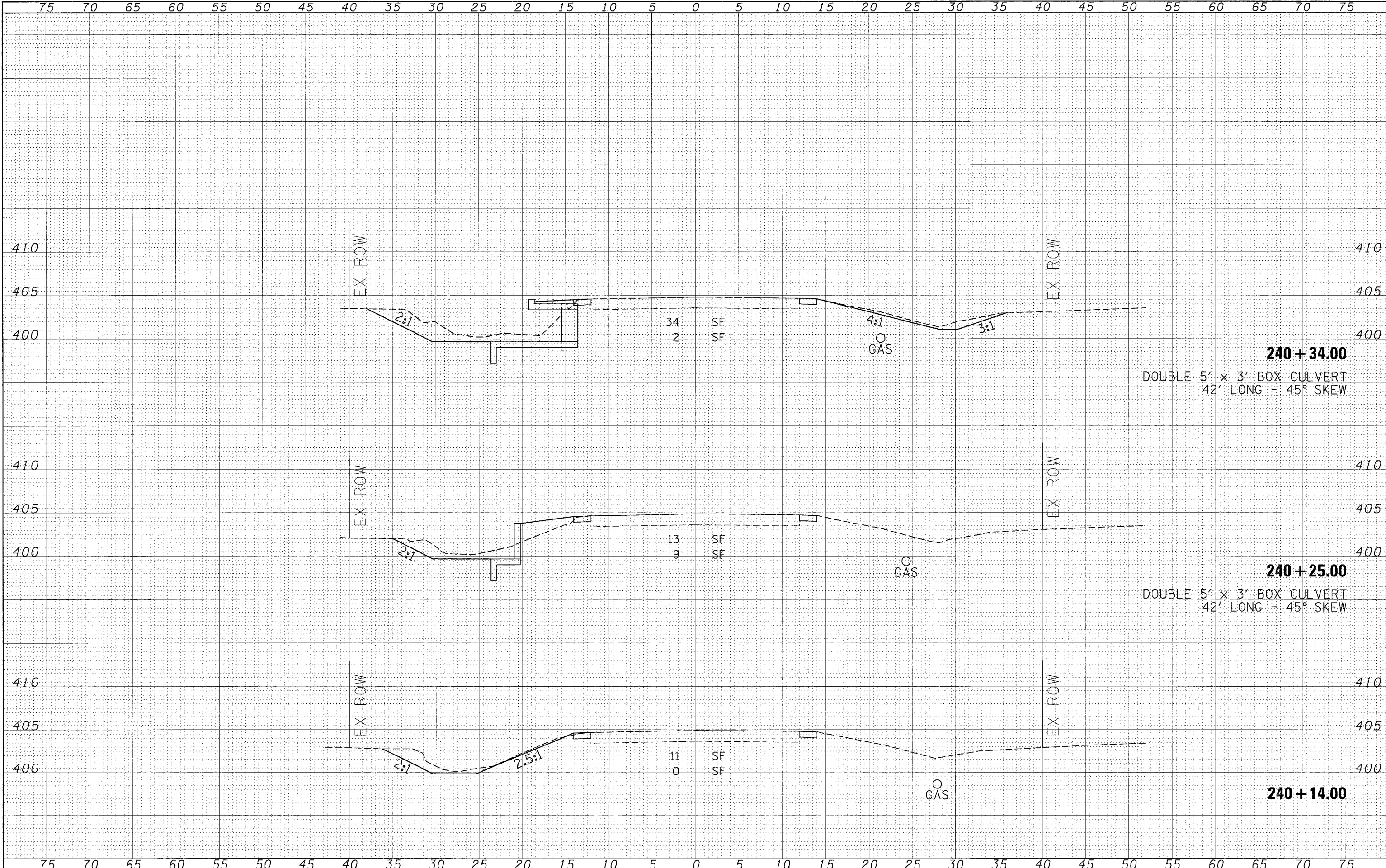
ORIGINAL SURVEY BY DATE  
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 NOTE BOOK NO.  
 AREAS CHECKED



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	PLOT SCALE = 5.0000' / IN.	DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA. 239+25.00	TO STA. 240+00.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
	PLOT DATE = 3/18/2008	CHECKED -	REVISED -		CONTRACT NO. 78038							
		DATE -	REVISED -									

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FILE NAME = c:\projects\1701987\ss-sheets.m32

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

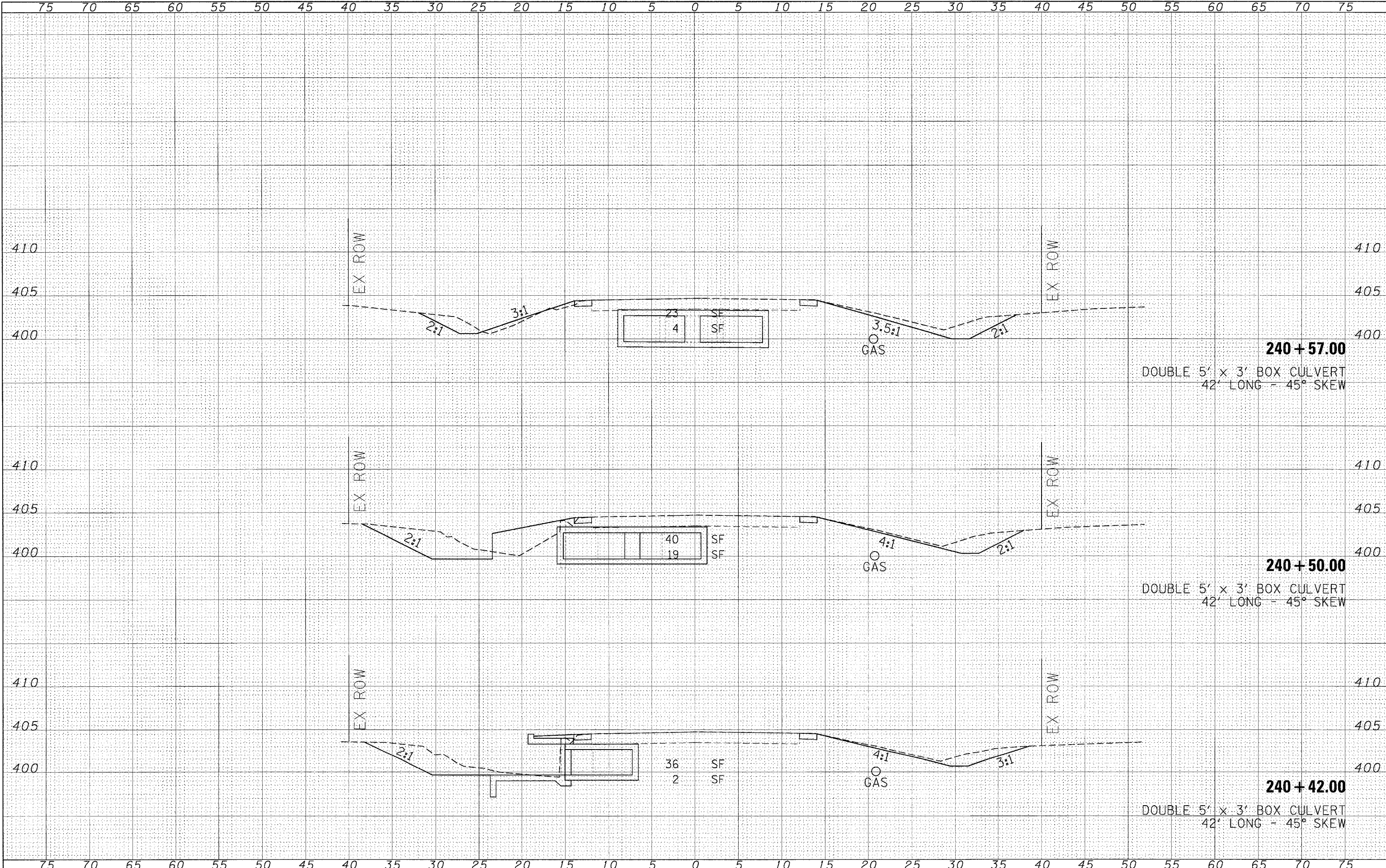
**CROSS SECTIONS - LOCATION 5**

SCALE: SHEET NO. OF SHEETS STA. 240+14.00 TO STA. 240+34.00

F.A.P. RTE. 881	SECTION D9 SAFETY FY08-1	COUNTY VARIOUS	TOTAL SHEETS 64	SHEET NO. 45
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78038	

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 PLOTTED BY \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_



**240 + 57.00**  
 DOUBLE 5' x 3' BOX CULVERT  
 42' LONG - 45° SKEW

**240 + 50.00**  
 DOUBLE 5' x 3' BOX CULVERT  
 42' LONG - 45° SKEW

**240 + 42.00**  
 DOUBLE 5' x 3' BOX CULVERT  
 42' LONG - 45° SKEW

FILE NAME = c:\projects\0901987\ss-sheets.m32  
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 PLOT DATE = 3/18/2008

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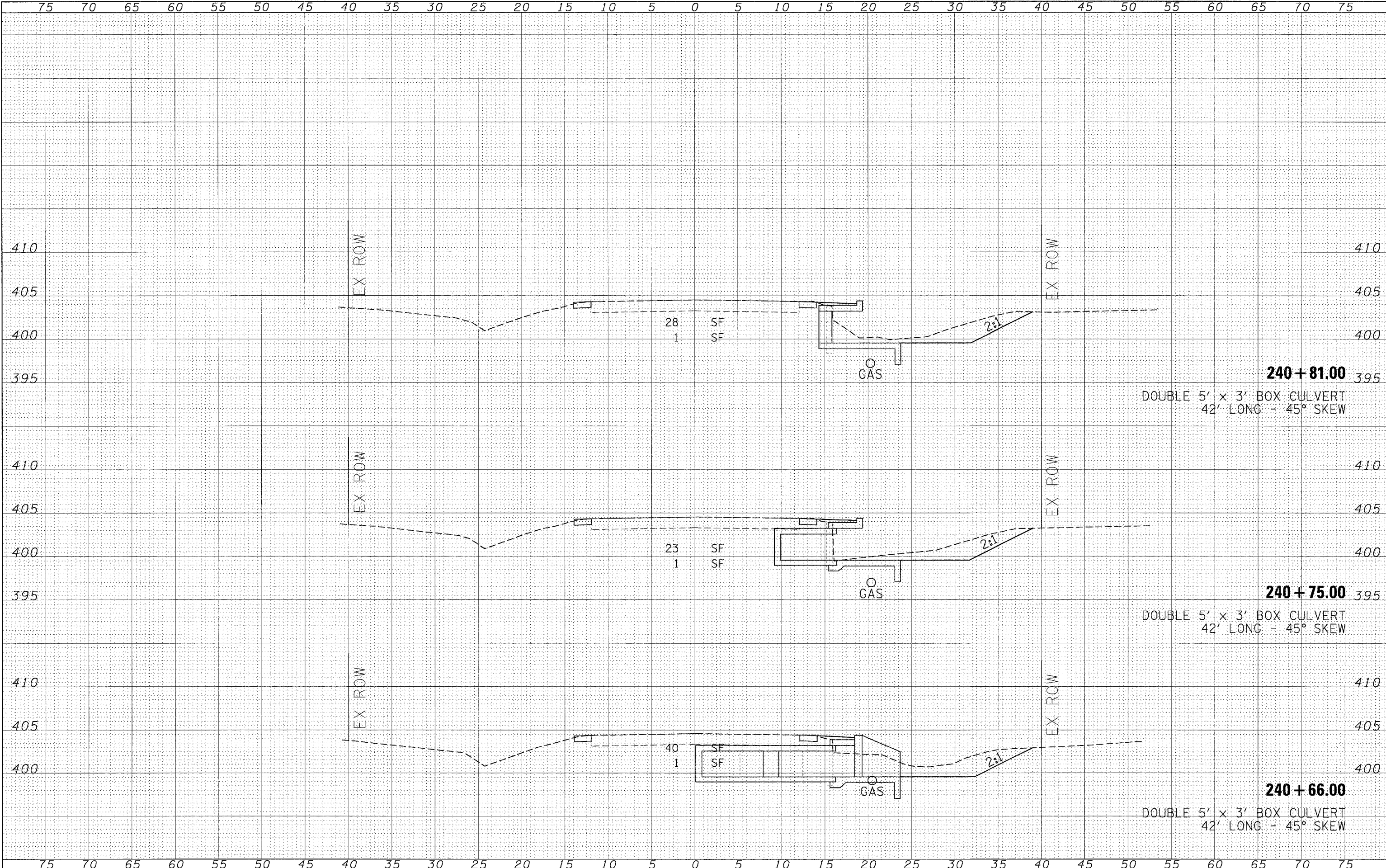
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - LOCATION 5  
 SCALE: \_\_\_\_\_ SHEET NO. \_\_\_\_\_ OF \_\_\_\_\_ SHEETS  
 STA. 240+42.00 TO STA. 240+57.00

F.A.P. RTE. 881	SECTION D9 SAFETY FY08-1	COUNTY VARIOUS	TOTAL SHEETS 64	SHEET NO. 46
CONTRACT NO. 78038				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

FINAL SURVEY  
 SURVEYED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
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 PLOT DATE: \_\_\_\_\_  
 NOTE BOOK NO.: \_\_\_\_\_  
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ORIGINAL SURVEY  
 SURVEYED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
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FILE NAME = c:\projects\901907\vs-sheets.m32  
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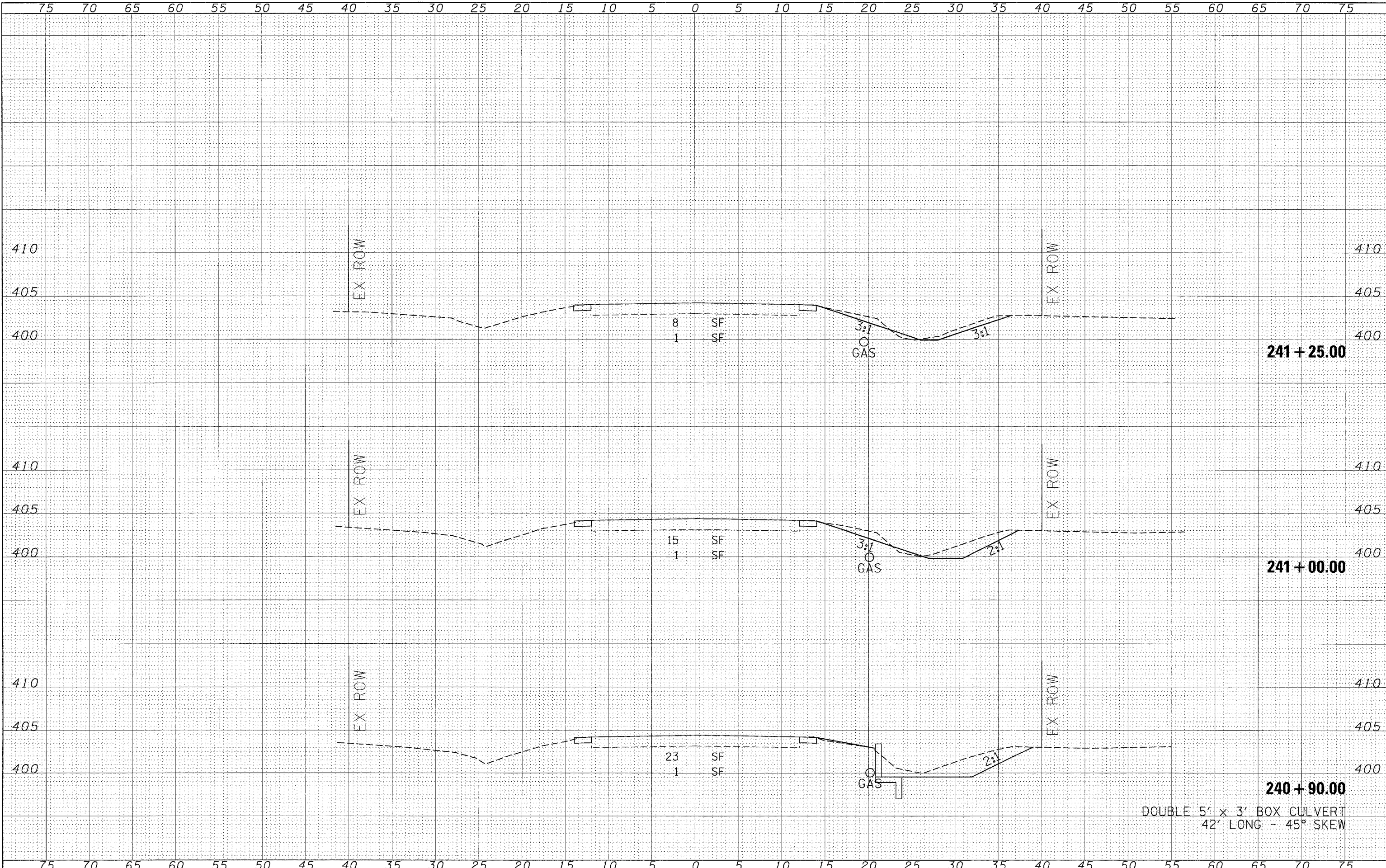
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - LOCATION 5  
 SCALE: \_\_\_\_\_ SHEET NO. \_\_\_\_\_ OF \_\_\_\_\_ SHEETS  
 STA. 240+66.00 TO STA. 240+81.00

F.A.P. RTE. 881	SECTION D9 SAFETY FY08-1	COUNTY VARIOUS	TOTAL SHEETS 64	SHEET NO. 47
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		
CONTRACT NO. 78038				

FINAL SURVEY BY DATE  
 SURVEYED BY DATE  
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 AREAS CHECKED

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



FILE NAME = c:\projects\901907\vs-sheets.m32

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 PLOT DATE = 3/18/2006

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

**CROSS SECTIONS - LOCATION 5**  
 SCALE: SHEET NO. OF SHEETS STA. 240+90.00 TO STA. 241+25.00

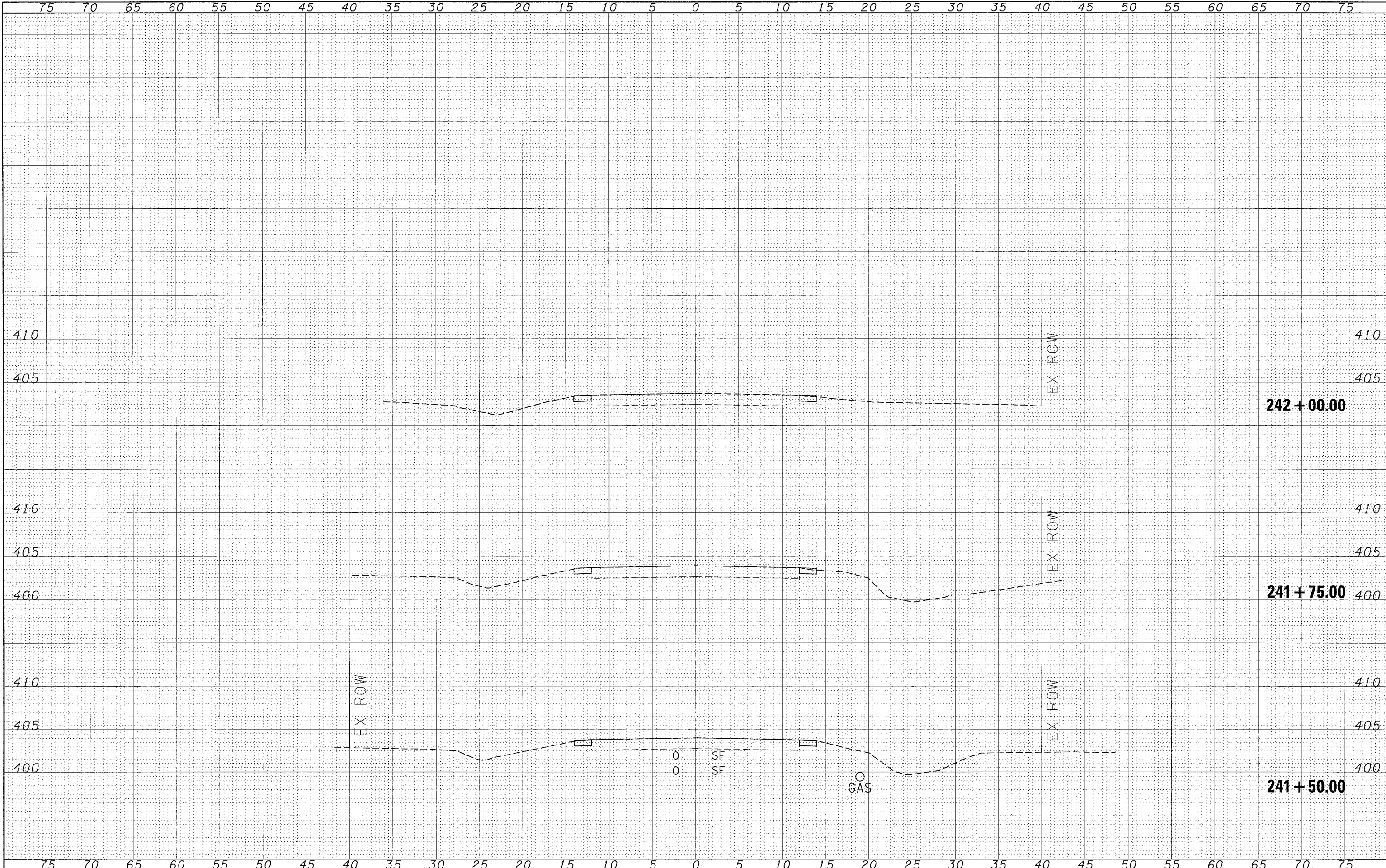
F.A.P. RTE. 881	SECTION D9 SAFETY FY08-1	COUNTY VARIOUS	TOTAL SHEETS 64	SHEET NO. 48
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		
CONTRACT NO. 78038				

DOUBLE 5' x 3' BOX CULVERT  
 42' LONG - 45° SKEW



FINAL SURVEY	BY	DATE
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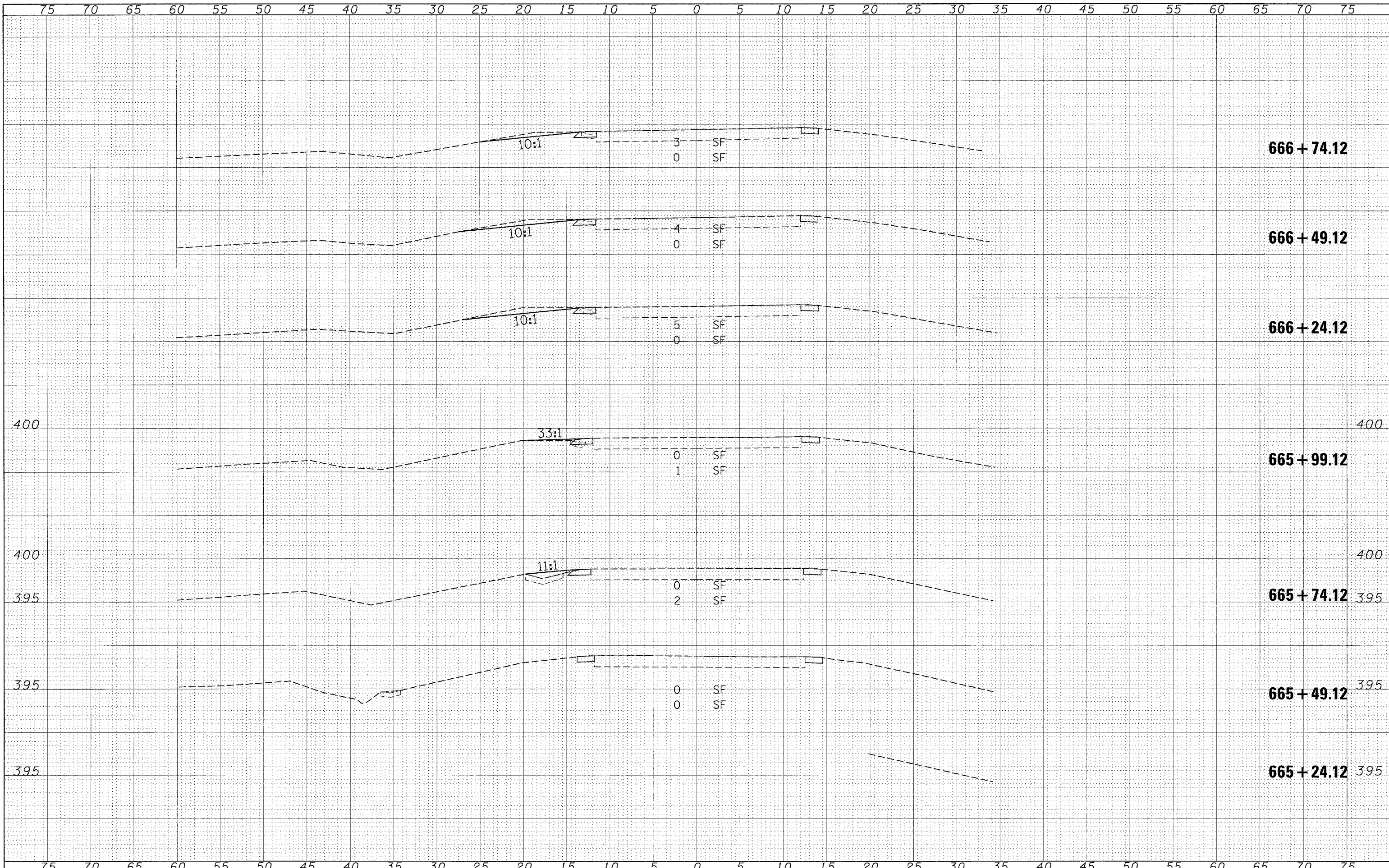
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - LOCATION 5**

SCALE: SHEET NO. OF SHEETS STA. 241+50.00 TO STA. 242+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	D9 SAFETY FY08-1	VARIOUS	64	49
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 78038	



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PLLOT DATE = 3/18/2008	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

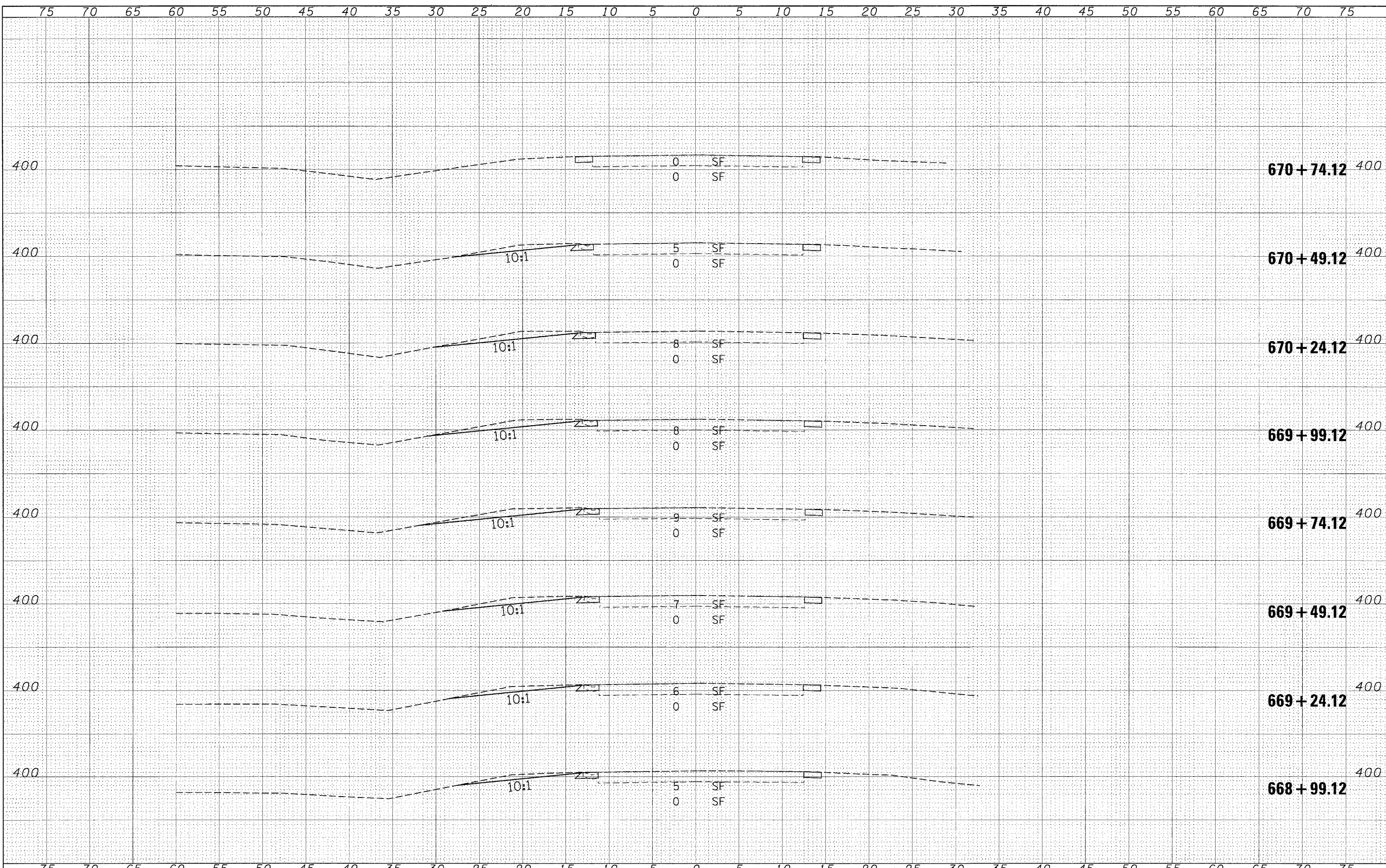
<b>CROSS SECTIONS - LOCATION 6</b>			
SCALE:	SHEET NO.	OF SHEETS	STA. 665+24.12 TO STA. 666+74.12

F.A.P. RTE. 881	SECTION D9 SAFETY FY08-1	COUNTY VARIOUS	TOTAL SHEETS 64	SHEET NO. 50
CONTRACT NO. 78038			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

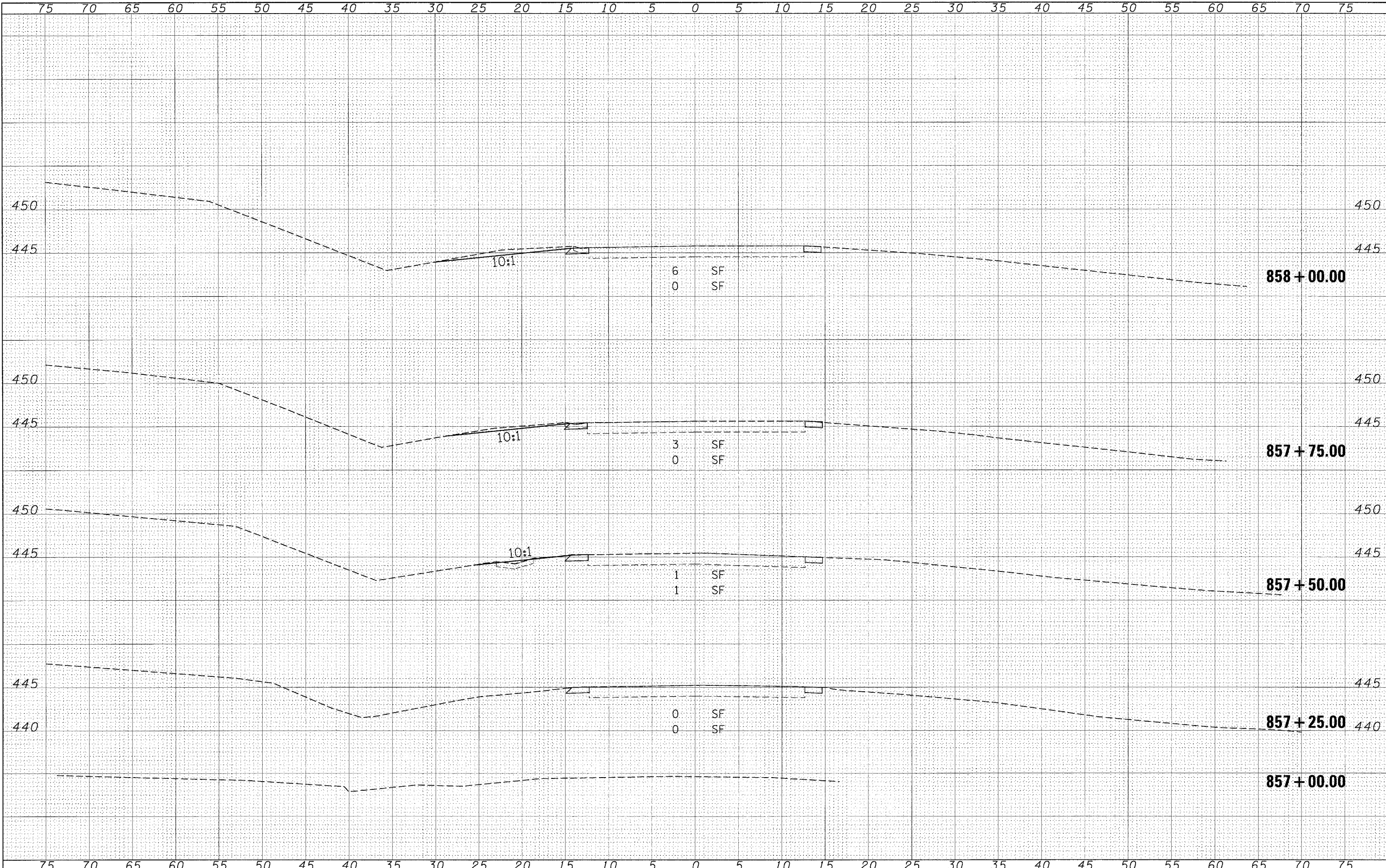
**CROSS SECTIONS - LOCATION 6**

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. 668+99.12 TO STA. 670+74.12

F.A.P. RTE. 881	SECTION 09 SAFETY FY08-1	COUNTY VARIOUS	TOTAL SHEETS 64	SHEET NO. 52
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78038	

BY \_\_\_\_\_ DATE \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
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 SURVEYED \_\_\_\_\_  
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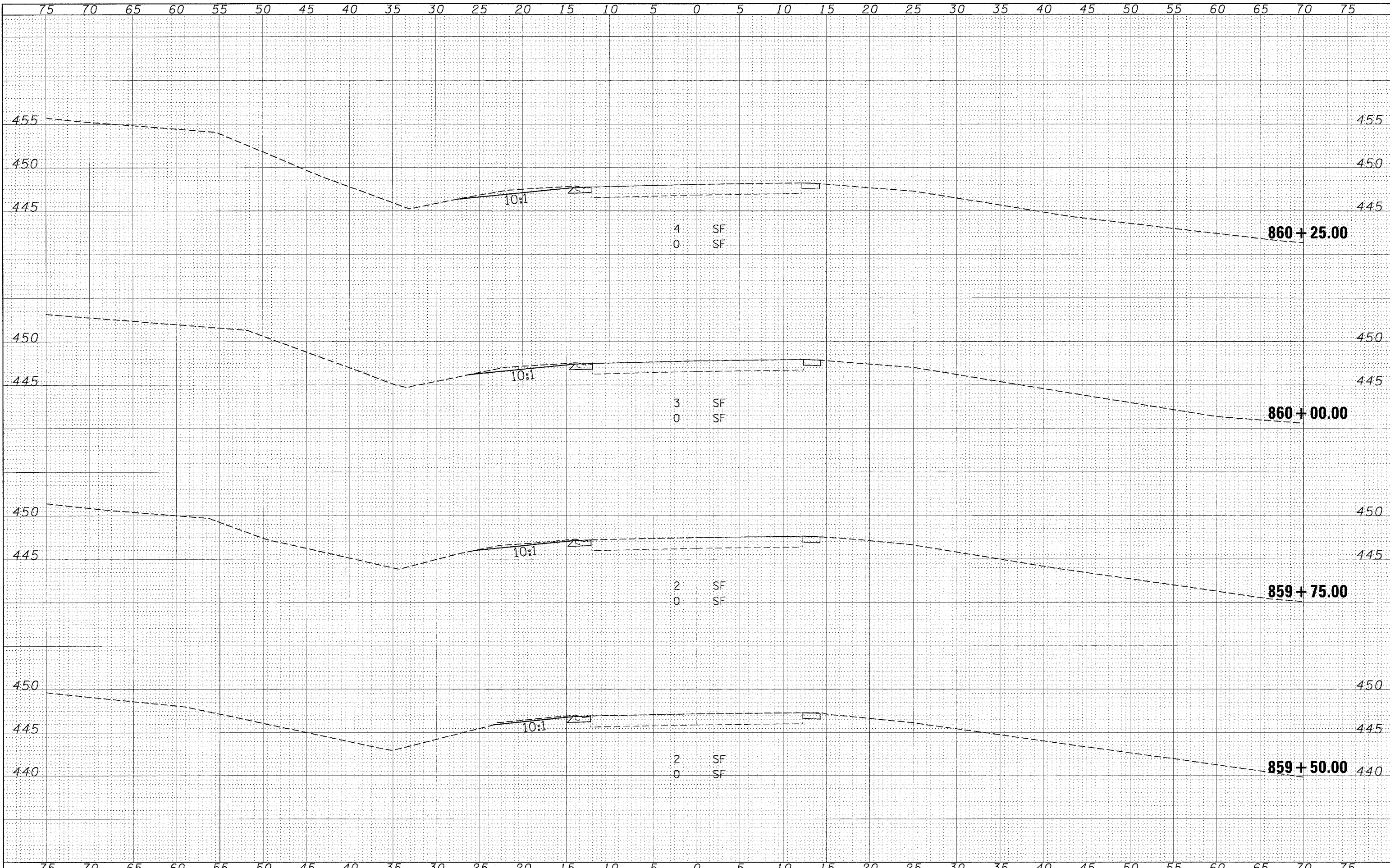
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - LOCATION 7**  
 SCALE: \_\_\_\_\_ SHEET NO. \_\_\_\_\_ OF \_\_\_\_\_ SHEETS  
 STA. 857+00.00 TO STA. 858+00.00

F.A.P. RTE. 881	SECTION D9 SAFETY FY08-1	COUNTY VARIOUS	TOTAL SHEETS 64	SHEET NO. 53
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 78038	





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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

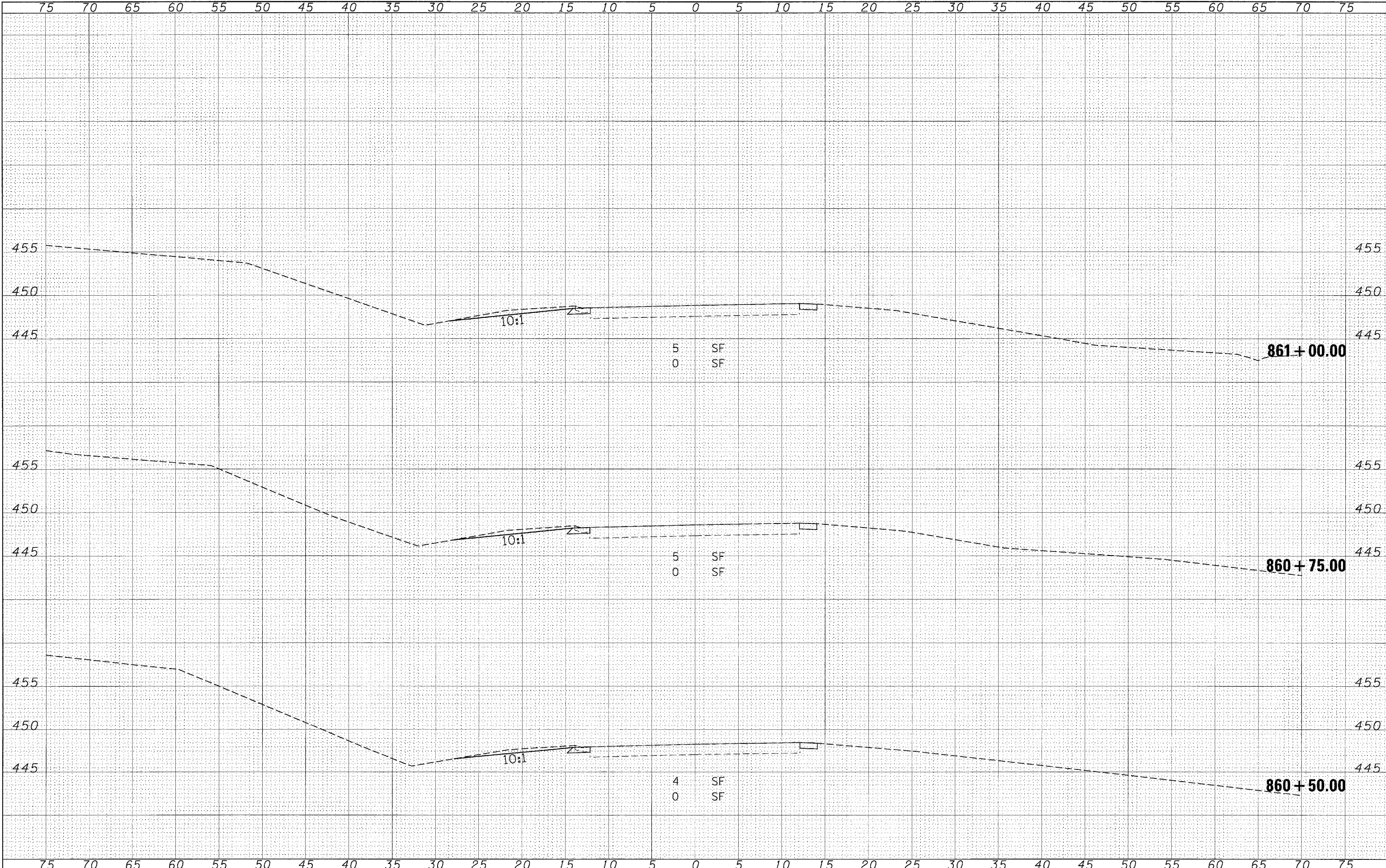
**CROSS SECTIONS - LOCATION 7**

SCALE: SHEET NO. OF SHEETS STA. 859+50.00 TO STA. 860+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	D9 SAFETY FY08-1	VARIOUS	64	55
CONTRACT NO. 78038				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - LOCATION 7**

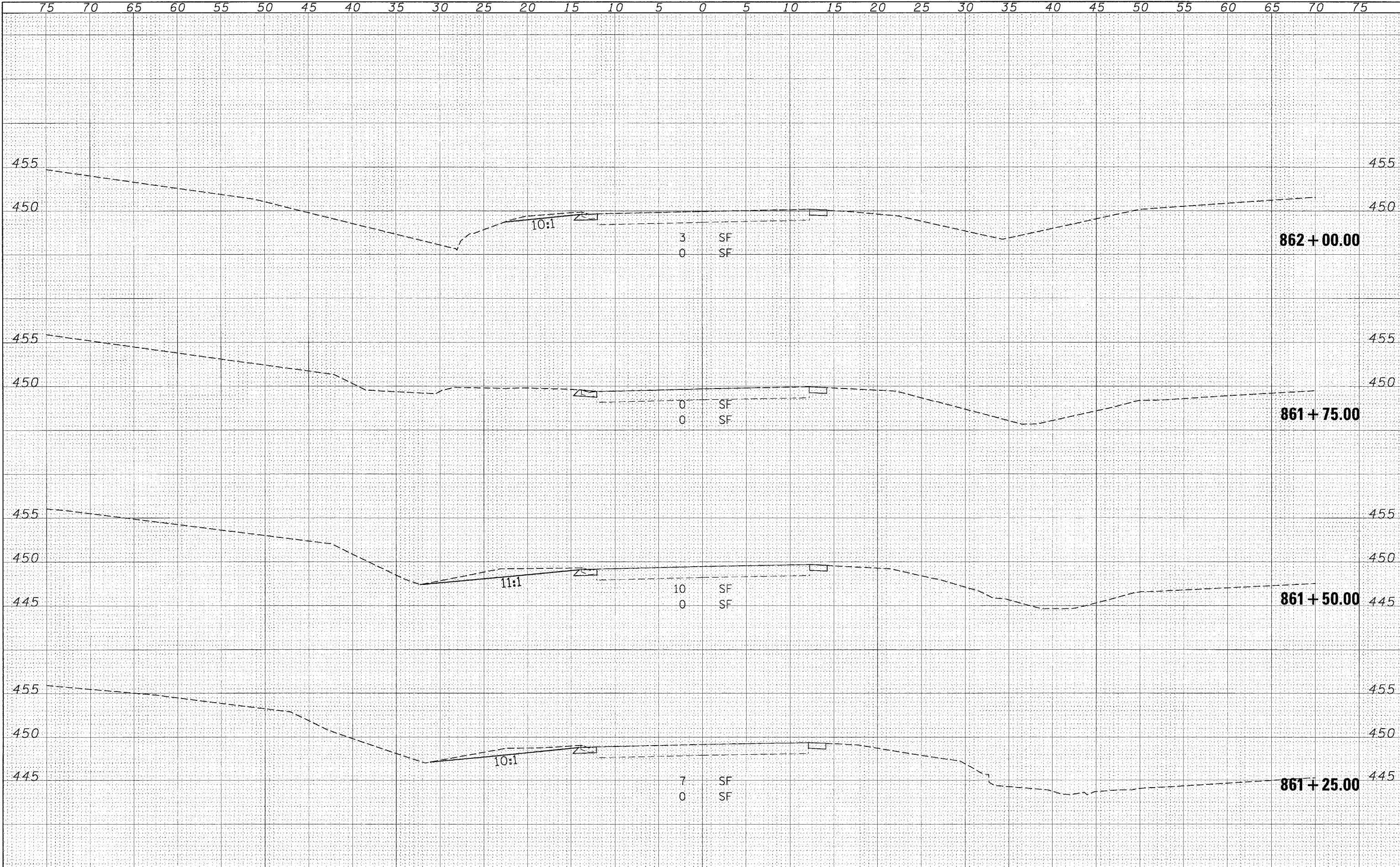
SCALE: SHEET NO. OF SHEETS STA. 860+50.00 TO STA. 861+00.00

F.A.P. RTE. 881	SECTION D9 SAFETY FY08-1	COUNTY VARIOUS	TOTAL SHEETS 64	SHEET NO. 56
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 78038	



DATE \_\_\_\_\_  
 BY \_\_\_\_\_  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

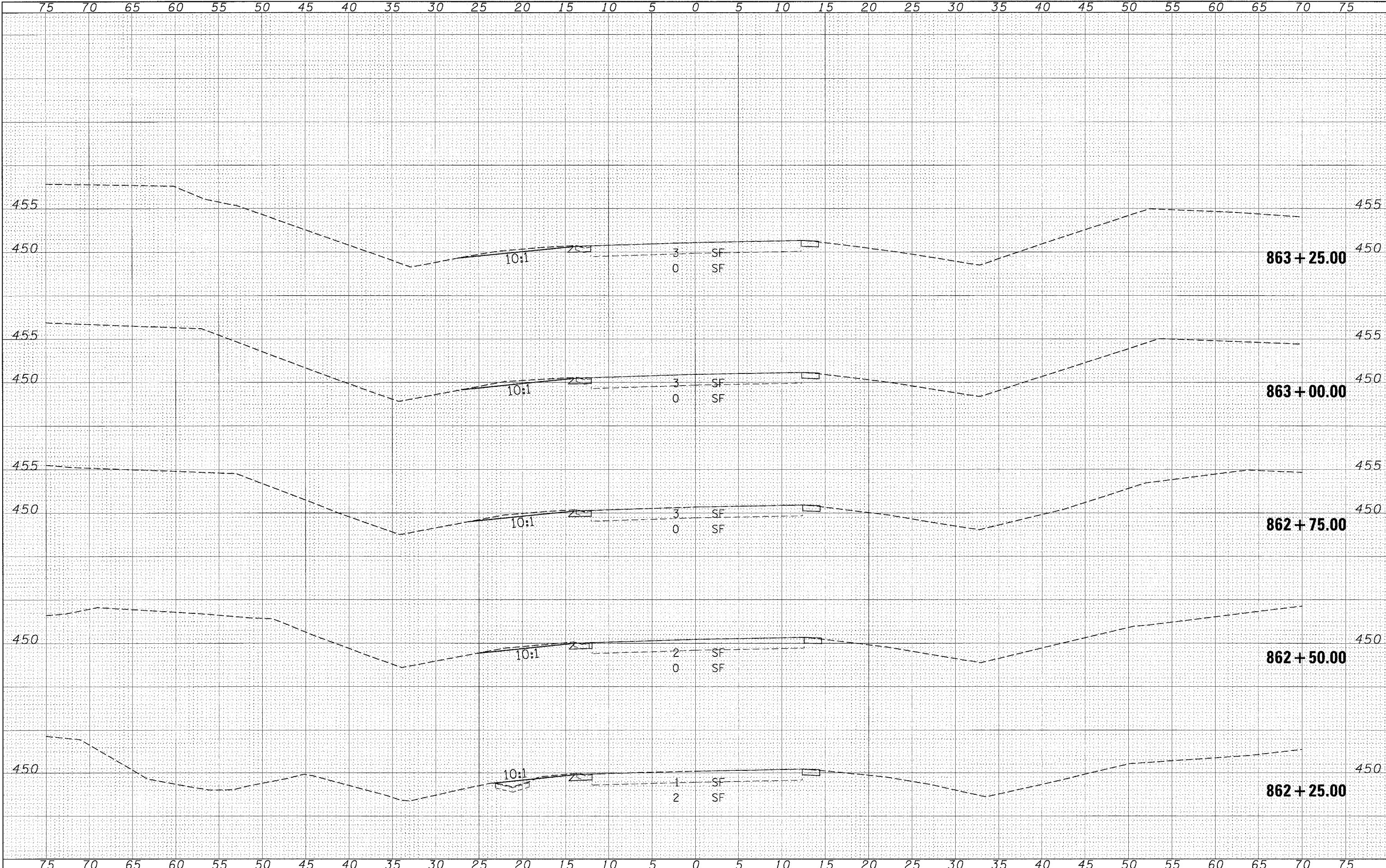
**CROSS SECTIONS - LOCATION 7**

SCALE: SHEET NO. OF SHEETS STA. 861+25.00 TO STA. 862+00.00

F.A.P. RTE. 881	SECTION D9 SAFETY FY08-1	COUNTY VARIOUS	TOTAL SHEETS 64	SHEET NO. 57
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 78038	

BY \_\_\_\_\_ DATE \_\_\_\_\_  
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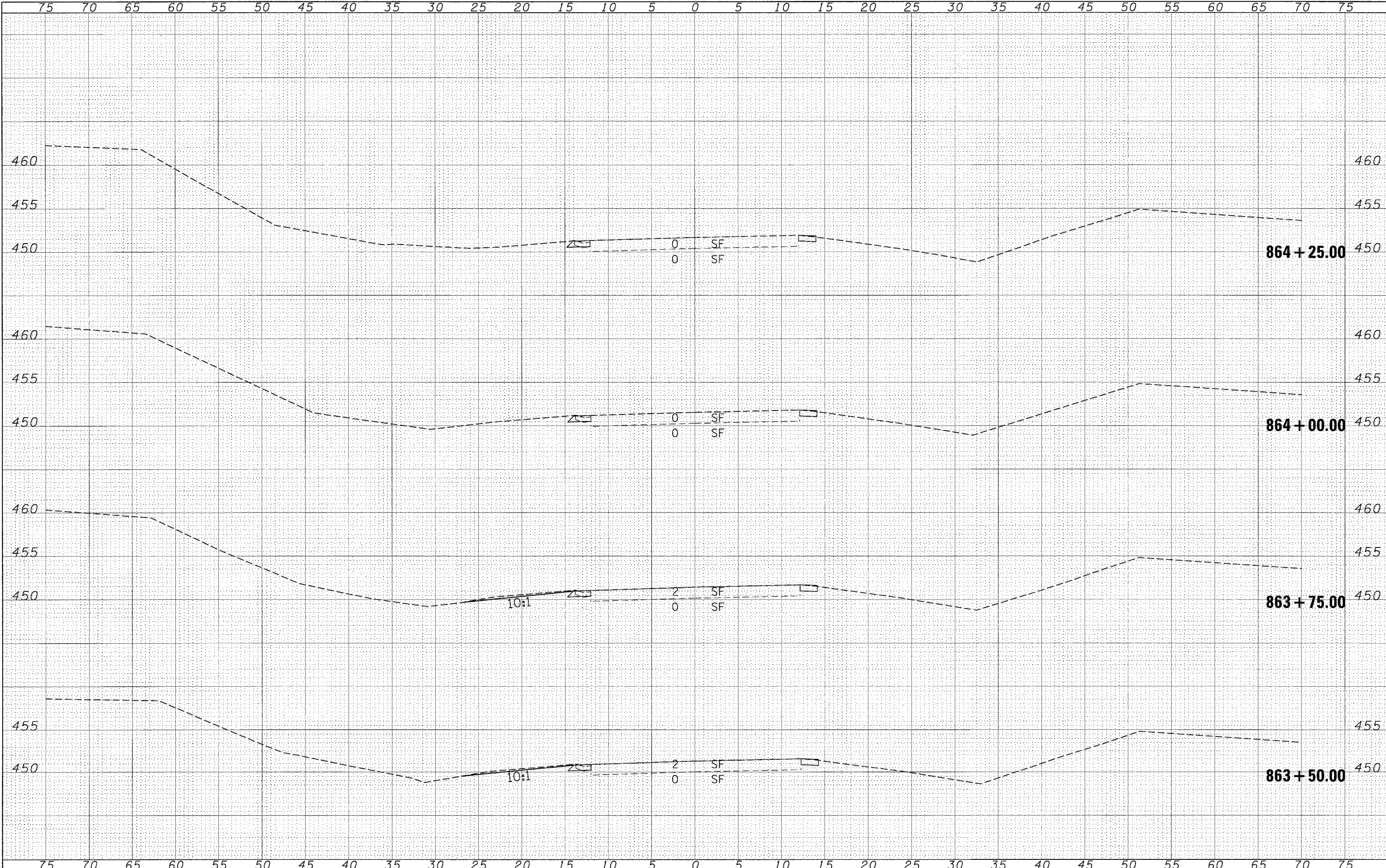
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - LOCATION 7**  
 SCALE: SHEET NO. OF SHEETS STA. 862+25.00 TO STA. 863+25.00

F.A.P. RTE. 881	SECTION D9 SAFETY FY08-1	COUNTY VARIOUS	TOTAL SHEETS 64	SHEET NO. 58
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78038	

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

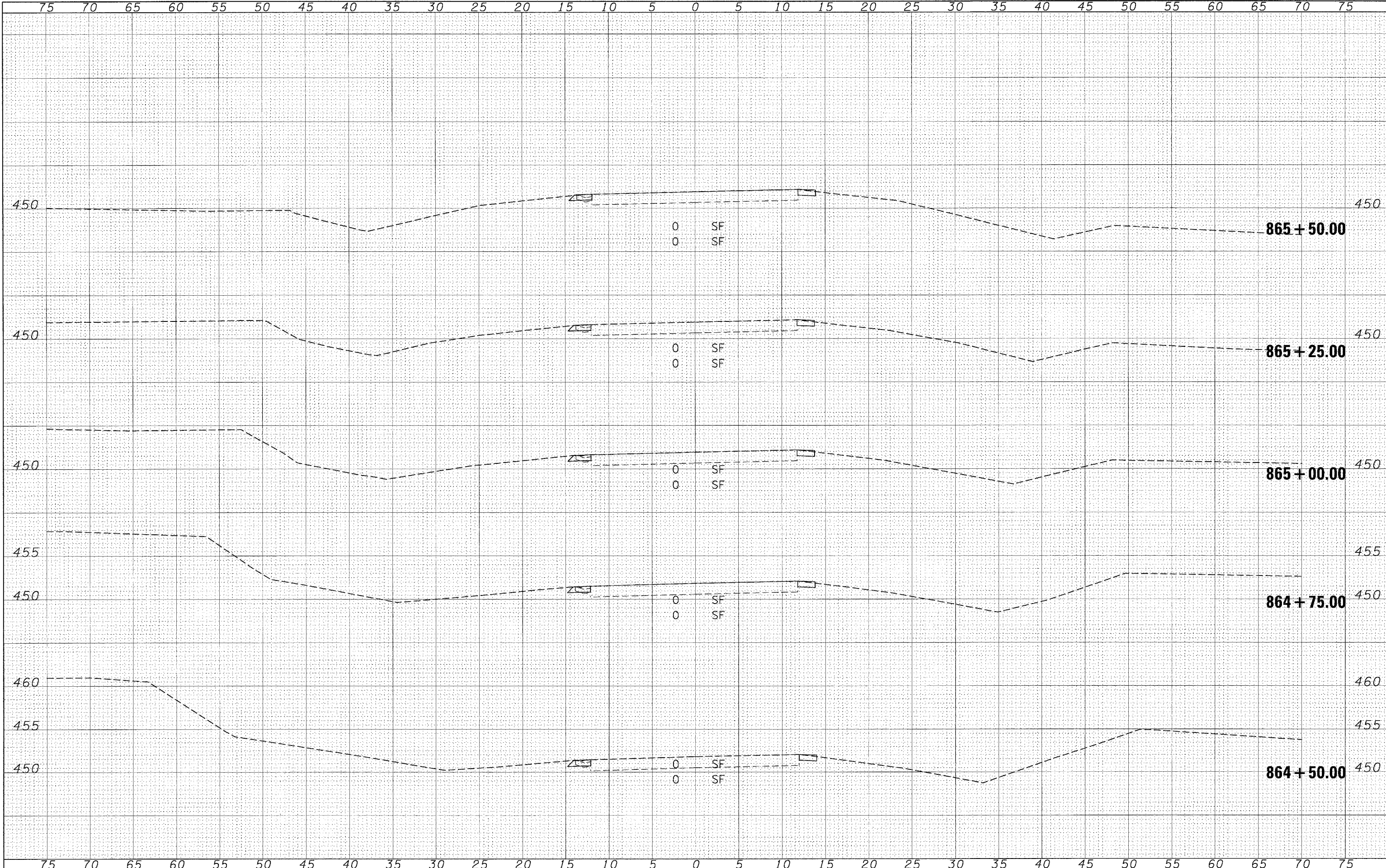
**CROSS SECTIONS - LOCATION 7**

SCALE: SHEET NO. OF SHEETS STA. 863+50.00 TO STA. 864+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	D9 SAFETY FY08-1	VARIOUS	64	59
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 78038	

BY	DATE
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FILE NAME = c:\projects\1907\1907-sheets.m32  
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 PLOT DATE = 3/18/2008

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 REVISED -  
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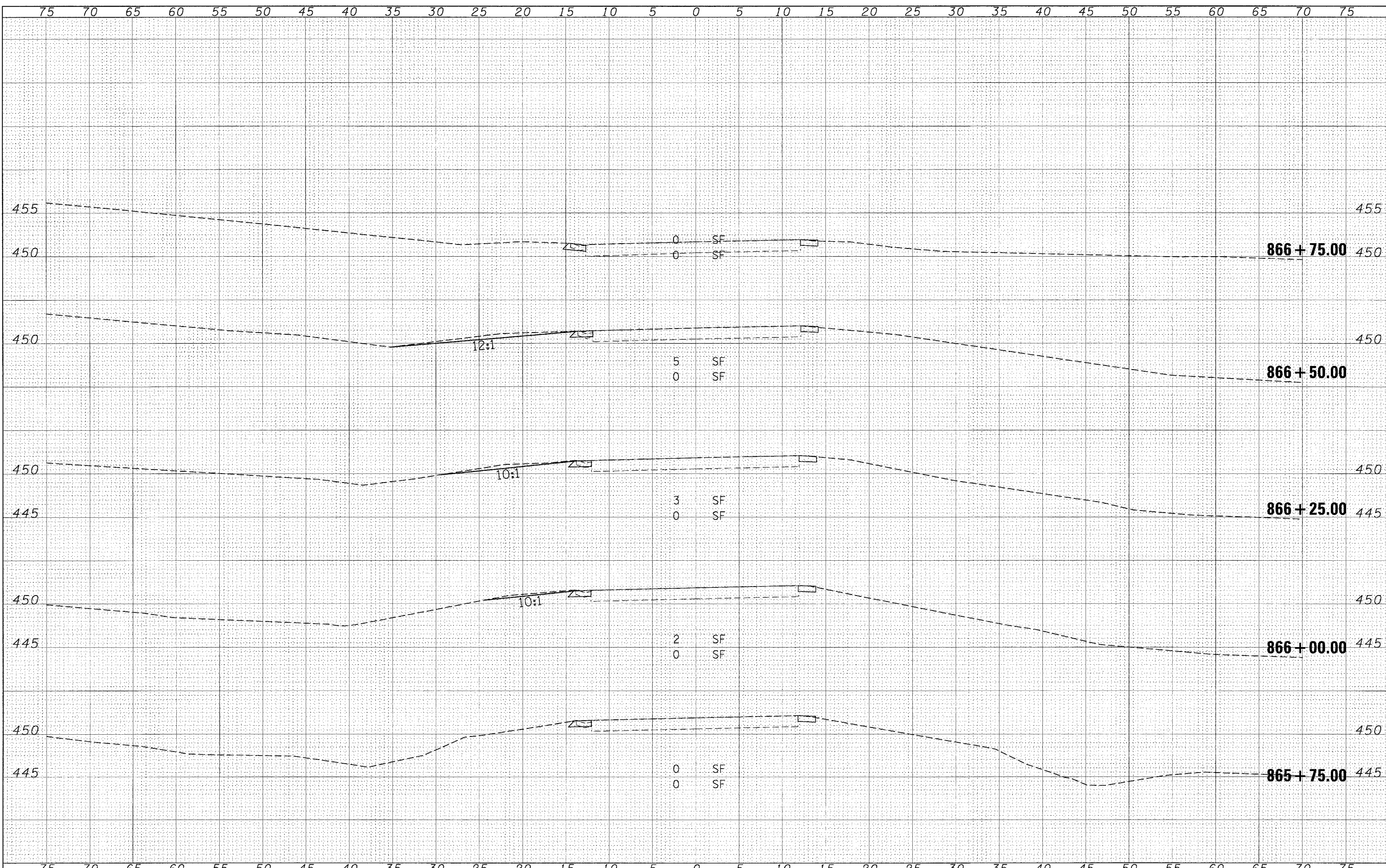
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - LOCATION 7**  
 SCALE: SHEET NO. OF SHEETS STA. 864+50.00 TO STA. 865+50.00

F.A.P. RTE. 881	SECTION D9 SAFETY FY08-1	COUNTY VARIOUS	TOTAL SHEETS 64	SHEET NO. 60
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78038	

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_



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 USER NAME = thomaahf

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

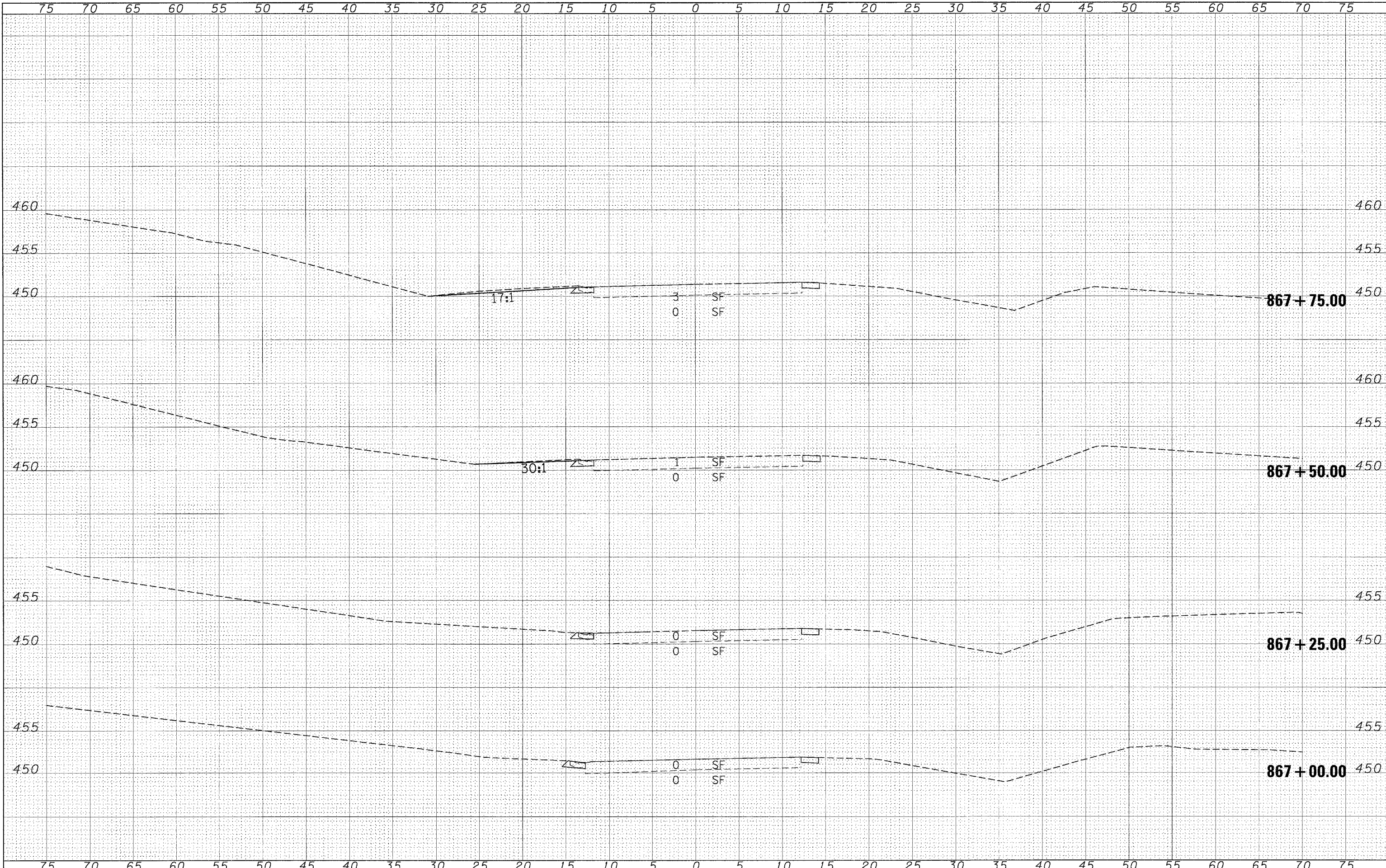
**CROSS SECTIONS - LOCATION 7**

SCALE: SHEET NO. OF SHEETS STA. 865+75.00 TO STA. 866+75.00

F.A.P. RTE. 881	SECTION D9 SAFETY FY08-1	COUNTY VARIOUS	TOTAL SHEETS 64	SHEET NO. 61
CONTRACT NO. 78038				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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



FILE NAME = c:\projects\d901907\xs-sheets.m32

USER NAME = thomashf  
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 CHECKED -  
 DATE -

REVISED -  
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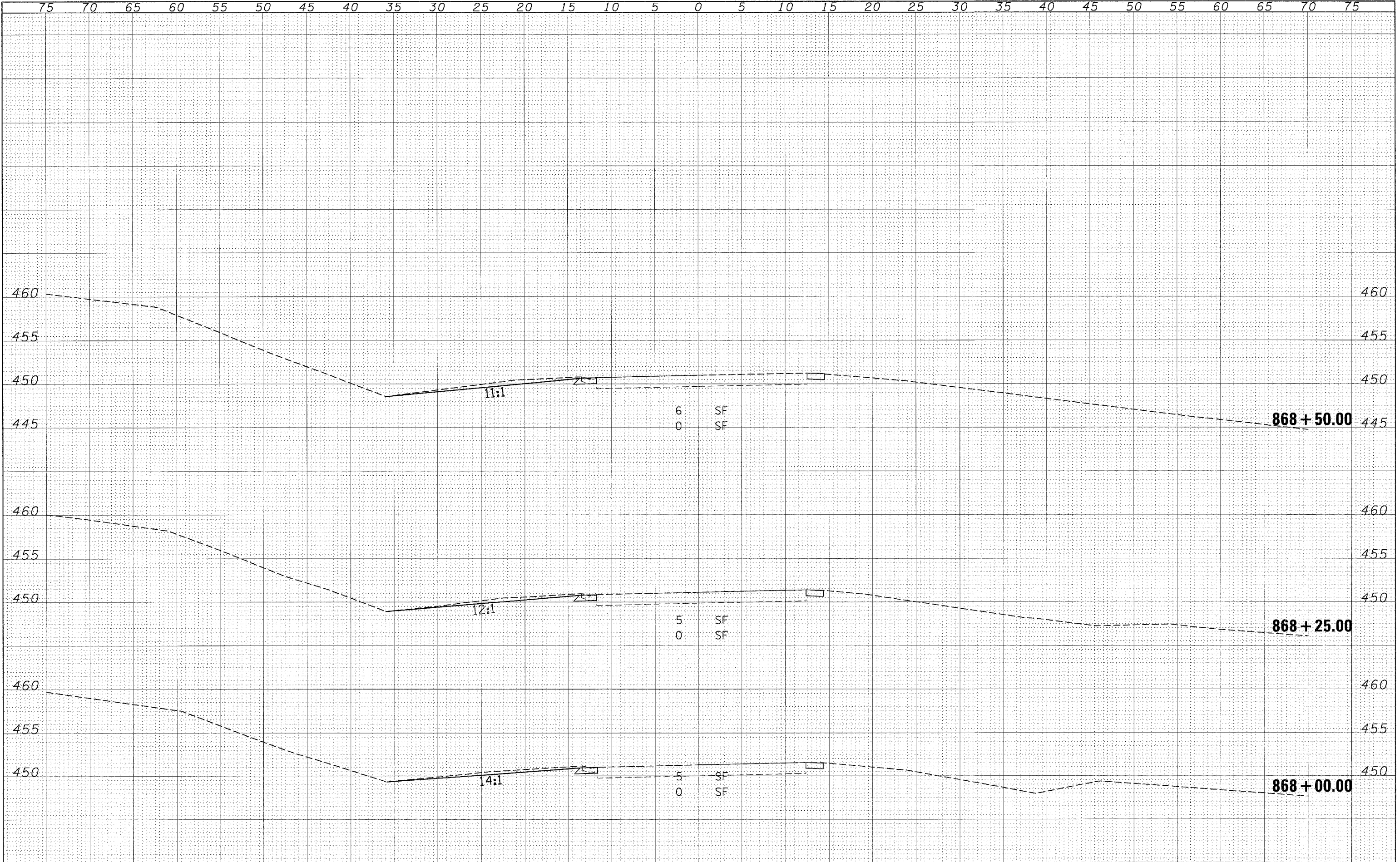
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - LOCATION 7**  
 SCALE: SHEET NO. OF SHEETS STA. 867+00.00 TO STA. 867+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	D9 SAFETY FY08-1	VARIOUS	64	62
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 78038	

DATE	
BY	
FINAL SURVEY	
NOTED	
NO. OF SHEETS	
NO. OF AREAS CHECKED	

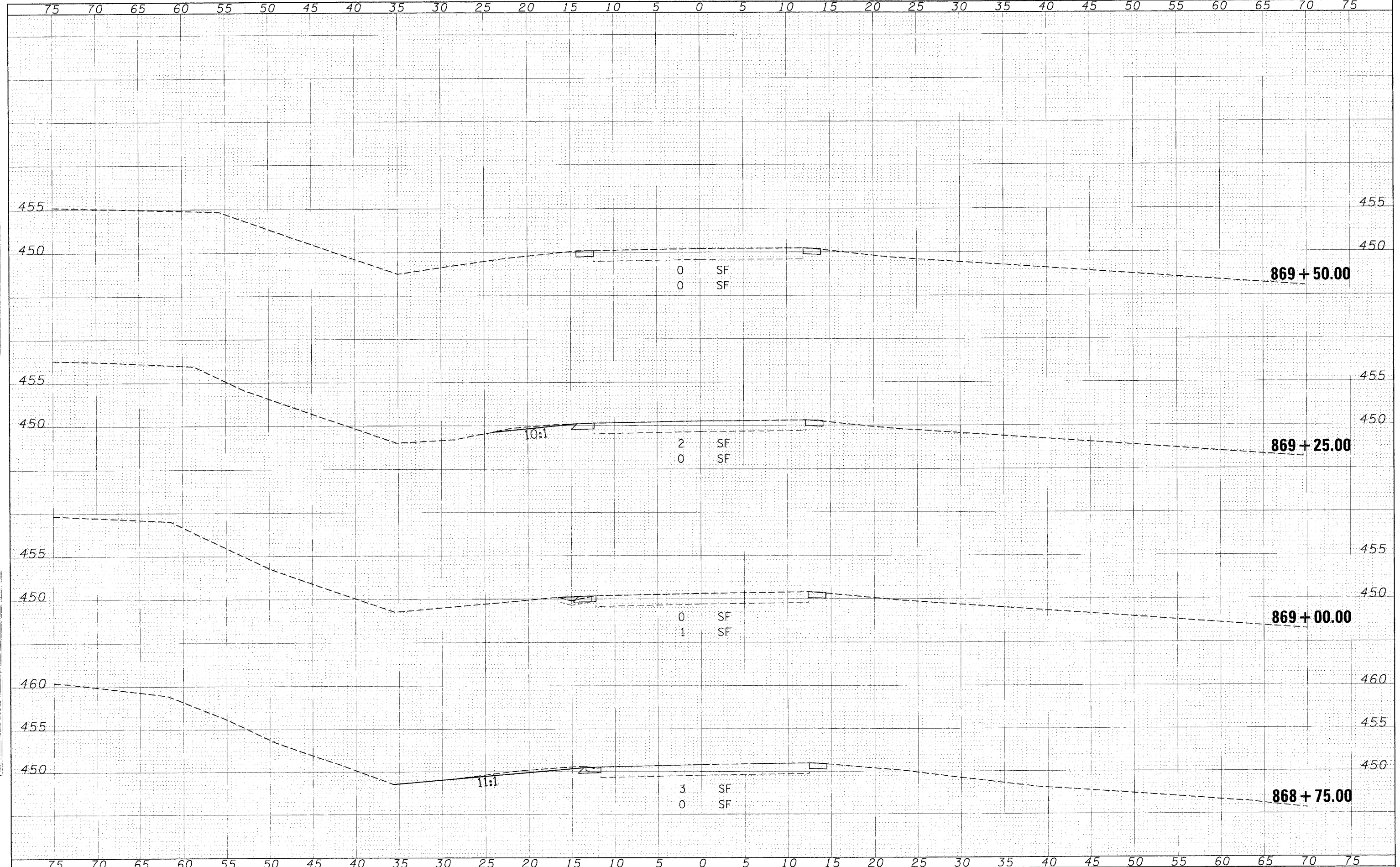
DATE	
BY	
ORIGINAL SURVEY	
NOTED	
NO. OF SHEETS	
NO. OF AREAS CHECKED	



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	PLOT SCALE = 5,0000' / IN.	DRAWN -	REVISED -		SCALE:			CONTRACT NO. 78038				
	PLOT DATE = 3/18/2008	CHECKED -	REVISED -		SHEET NO. OF SHEETS			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				
		DATE -	REVISED -		STA. 868+00.00 TO STA. 868+50.00							

NOTE BOOK  
 NO. \_\_\_\_\_  
 AREAS CHECKED

NOTED  
 AREAS CHECKED



FILE NAME = c:\projects\81487\ss\shots\m32  
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 PLOT DATE = 3/18/2008

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

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - LOCATION 7**

SCALE: SHEET NO. OF SHEETS STA. 868+75.00 TO STA. 869+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
881	D9 SAFETY FY08-1	VARIOUS	64	64
CONTRACT NO. 78038				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				