F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	1
	ILLINOIS	CONTRACT NO. 76E76		

INDEX OF SHEETS

04-29-11 LETTING ITEM 048

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

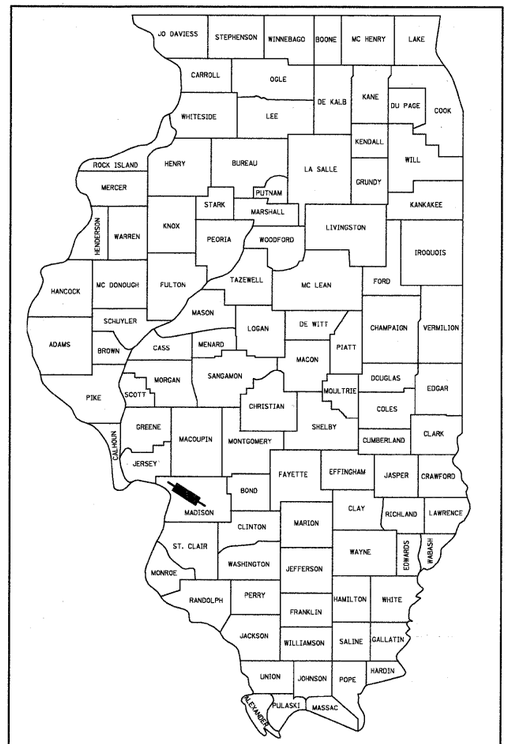
PROPOSED
HIGHWAY PLANS

FAP ROUTE 310 (ILLINOIS 255)
SECTION 60-15SG

SIGNING & ROADSIDE BARRIERS
MADISON COUNTY

C-98-037-11

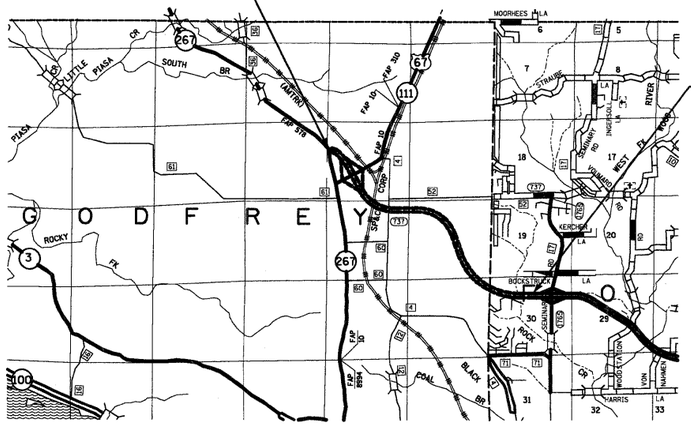
D-98-038-92



LOCATION OF SECTION INDICATED THUS: –

END PROJECT
STA 40+684.358

BEGIN PROJECT
STA 35+150.000



GROSS LENGTH OF PROJECT = 5,534.358 m (5.534 km)
GROSS LENGTH OF PROJECT = 18,157.343 ft (3.439 mi)
NET LENGTH OF PROJECT = 5,534.358 m (5.534 km)
NET LENGTH OF PROJECT = 18,157.343 ft. (3.439 mi)

TRAFFIC DATA

I-255

ADT = 18,300
SU = 3%
MU = 5%

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

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

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

IDOT HIGHWAY STANDARDS

000001-06	630201-06	701006-03	720021-02
001001-02	630301-05	701901-01	728001-01
001006	631011-07	720001-01	729001-01
280001-05	635006-03	720006-02	
630001-09	635011-02	720011-01	

PROJECT ENGINEER PATTI LEBEAU, P.E. 618-346-3179
PROJECT MANAGER ARTHUR MUEHLFIELD, P.E. 618-346-3209

CONTRACT NO. 76E76

STEVEN R. DONAHUE 062-052897 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

Steven R. Donahue, P.E. Date 2/9/11
License Expires 11/30/2011
My seal applies to sheets:
1-2, 6-7

MARY COOMBE BLOXDORF 43208 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

Mary C. Bloxdorf, P.E. Date 02-01-11
License Expires 11/30/2011
My seal applies to sheets:
3-5, 8-30

PLANS PREPARED BY

HORNER & SHIFRIN, INC. ENGINEERS
www.HornerShifrin.com
640 Pierce Boulevard, Suite 200
O'Fallon, Illinois 62269
Phone: (618) 622-3040
Illinois Professional Design Firm
No. 184-000435
License Expires 4/30/2011

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED February 9 20 11
Mary C. James
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER
March 25 20 11
Scott E. Stitt, P.E. /BL
acting ENGINEER OF DESIGN AND ENVIRONMENT
March 25 20 11
Christine M. Reed /BL
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GENERAL NOTES

1. THE STANDARDS AND REVISIONS LISTED APPLY TO THIS PROJECT.

2. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT ARA ARE AS FOLLOWS:

   UTILITIES FROM CURVED STRUCTURE OVER IL 255
   - AMEREN UE
   - SBC
   - FOSTERBURG WATER
   - ILLINOIS AMERICAN WATER - ALTON
   - MCI WORLDCOM
   - AT&T CABLE SERVICES
   - SPRINT
   - VILLAGE OF GODFREY
   - CHARTER COMMUNICATIONS

   UTILITIES FROM THE STRUCTURE OVER HUMBERT ROAD
   - AMEREN UE
   - AMERITECH
   - FOSTERBURG WATER
   - ILLINOIS AMERICAN WATER - ALTON
   - MCI WORLDCOM
   - AT&T CABLE SERVICES
   - SPRINT
   - CHARTER COMMUNICATIONS

   UTILITIES FROM THE STRUCTURE OVER IL 111
   - AMEREN UE
   - SBC
   - AMERITECH
   - FOSTERBURG WATER
   - ILLINOIS AMERICAN WATER - ALTON
   - MCI WORLDCOM
   - AT&T CABLE SERVICES
   - SPRINT
   - VILLAGE OF GODFREY
   - CHARTER COMMUNICATIONS

   MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY A "•". NON-JULIE MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

3. THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING AND/OR I.T.S. UTILITIES WITHIN THE PROJECT LIMITS. IF HIGHWAY LIGHTING AND/OR I.T.S. EXISTS WITHIN THE PROJECT LIMITS, AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 803.04 OF THE STANDARD SPECIFICATIONS. THESE PLANS WERE PREPARED USING ENGLISH UNITS. HOWEVER, IT SHOULD BE NOTED THAT THE CENTERLINE STATIONING USES METRIC UNITS FROM THE ORIGINAL ROADWAY CONSTRUCTION PLANS.

4. EXISTING UNDERGROUND AND ABOVE-GRADE FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED UPON THE INFORMATION AND SURVEYS AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATION OF THESE FEATURES MUST, THEREFORE, BE CONSIDERED APPROXIMATE ONLY. IN ADDITION, THERE MAY BE OTHER FACILITIES, STRUCTURES, AND UTILITIES WHICH DID NOT EXIST (OR THE EXISTENCE OF WHICH WAS NOT KNOWN) AT THE TIME OF DRAWING PREPARATION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES, AND UTILITIES LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY; AND TO PROTECT ALL SUCH EXISTING FEATURES (EXCEPT THOSE SPECIFICALLY NOTED FOR REMOVAL OR DEMOLITION) DURING CONSTRUCTION.

5. "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT INTERCHANGES, ENTRANCES AND SIDE STREETS WHERE WORK IS BEING CONDUCTED AS DIRECTED BY THE RESIDENT ENGINEER. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE. THIS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION. THESE SIGNS SHALL BE 48" X 48".

6. SEEDING, FERTILIZER AND MULCH REQUIRED AROUND THE PROPOSED WORK SHALL BE INCIDENTAL TO THE CONTRACT.

7. IN ADDITION TO THE REQUIREMENTS OF ARTICLE 107.16, THE CONTRACTOR SHALL PROTECT THE SURFACE OF ALL BRIDGE DECKS AND BRIDGE APPROACH PAVEMENTS IN A MANNER SATISFACTORY TO THE ENGINEER BEFORE ANY EQUIPMENT IS ALLOWED TO CROSS THE STRUCTURE. PROTECTION SHALL BE PROVIDED FOR ALL EQUIPMENT AS DEFINED IN ARTICLE 107.16 REGARDLESS IF TRACK MOUNTED OR WHEELED.

8. SHOULDER WIDENING FOR THE TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT SHALL BE INCLUDED IN THE UNIT PRICE OF THE TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT AND CONSTRUCTED ACCORDING TO STANDARD 630301.

9. ALL TYPE III BARRICADES SHALL REQUIRE AN ADEQUATE NUMBER OF SANDBAGS PER BARRICADE TO ENSURE STABILIZATION.

COMMITMENTS

NONE

**** METRIC STATIONING ****

ALL OTHER OFFSETS, DIMENSIONS & VALUES USE ENGLISH UNITS

FILE NAME = ...\D876E76-Sht-GenNote.dgn	USER NAME = CFC_	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 2/1/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HORNER & SHIFRIN, INC. ENGINEERS

GENERAL NOTES & COMMITMENTS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	2
		CONTRACT NO. 76E76		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	100% STATE 0021		
50800105	REINFORCEMENT BARS	POUND	2536	2536		
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	2350	2350		
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	12	12		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	12	12		
67100100	MOBILIZATION	L SUM	1	1		
72000100	SIGN PANEL - TYPE 1	SQ FT	214	214		
72000200	SIGN PANEL - TYPE 2	SQ FT	400	400		
72000300	SIGN PANEL - TYPE 3	SQ FT	5053	5053		
72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	12731	12731		
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	130	130		
73000100	WOOD SIGN SUPPORT	FOOT	930	930		
X7333095	OVERHEAD SIGN STRUCTURE - SPAN (SPECIAL)	FOOT	234	234		
73301830	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE S	FOOT	138	138		
73304000	OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	FOOT	70	70		
73400100	CONCRETE FOUNDATIONS	CU YD	30.4	30.4		
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	50	50		
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	56	56		
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	12	12		

*SPECIALTY ITEM

8

SUMMARY OF QUANTITIES			TOTAL	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT	QUANTITIES	80% FED 20% STATE 0011		

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	PLOT SCALE = 50.0000 ' / IN.	DRAWN -	REVISED -
	PLOT DATE = 2/10/2011	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

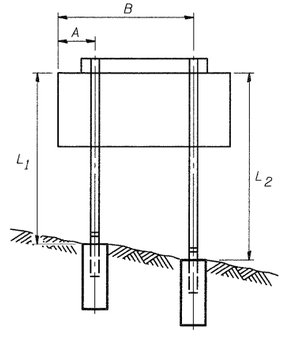
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 11 OF 1 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	3
		CONTRACT NO. 76E76		
	ILLINOIS FED. AID PROJECT			

PROPOSED SIGNING SCHEDULE

ALIGN	LOCATION: PROP. STA	LOCATION: RAMP STA.	LOCATION: OFFSET EOP TO EDGE OF SIGN (FT)	DESCRIPTION: TYPE SEE NOTE 2	DESCRIPTION: LEGEND	SIGN PANEL (SQ FT): TYPE 1 9 SF	SIGN PANEL (SQ FT): TYPE 2 9<&<24	SIGN PANEL (SQ FT): TYPE 3 24 SF	POST: WOOD SIGN SUPPORT LIN FT	POST: TELESCOPING STEEL SIGN SUPPORT LIN FT	NO. OF POSTS	BREAKAWAY WIDE FLANGE STEEL POSTS: POST TYPE AND SIZE	A	B	L1	L2	STRUCTURAL STEEL W POUNDS	CONCRETE FOUNDATIONS: CONCRETE CU YDS	REINFORCEMENT POUNDS	NOTES
SEMINARY RD	5+170		57 LT		IL 255 NORTH GODFREY →			118.75			2	W 10 x 22	2'-6"	10'-0"	18'-8"	17'-2"	921	2.36	184	
SEMINARY RD	5+110		34 RT		IL 255 NORTH GODFREY ←			118.75			2	W 6 x 15	2'-6	10'-0"	14'-6"	12'-0"	473	1.4	156	
NB OFF RAMP SEMINARY				R1-1100 (3018)	CROSS TRAFFIC DOES NOT STOP	3.75														MOUNT BELOW EXISTING STOP S GN
SB OFF RAMP SEMINARY				R1-1100 (3018)	CROSS TRAFFIC DOES NOT STOP	3.75														MOUNT BELOW EXISTING STOP S GN
SB OFF RAMP SEMINARY		1+500	12 LT	R5-1 (36)	DO NOT ENTER	9			19		1									
SB OFF RAMP SEMINARY		1+500	12 RT	R5-1 (36)	DO NOT ENTER	9			18		1									
SB OFF RAMP SEMINARY		1+465	12 LT	R5-1A (3624)	WRONG WAY	6			18		1									
SB OFF RAMP SEMINARY		1+465	12 RT	R5-1A (3624)	WRONG WAY	6			17		1									
NB ON RAMP SEMINARY		1+030	12 RT	R5-1100 (4854)	USE PROHIBITED		18		20		1									
I-255	34+600		SB 16 LT	M3-3 (2412) M1-1100 (4536)	SOUTH ILLINOIS 255	2	11.25		17		1									
NB ON RAMP SEMINARY		1+305	12 LT	W4-5 (48)	ENTERING ROADWAY MERGE		16		20		1									
SB OFF RAMP SEMINARY		1+250	12 RT	W13-3 (3648)	RAMP 40 MPH		12		19		1									
I-255	35+125		SB 30 LT		EXIT 16 SEMINARY ROAD			136.0			2	W 14 X 30	3'-2"	12'-10"	19'-7"	22'-6"	1443	3.8	226	
I-255	35+300		NB 16 RT	M3-1 (2412) M1-1100 (4536)	NORTH ILLINOIS 255	2	11.25		18		1									
I-255	35+335		NB 16 RT	R2-4A (3672)	SPEED LIMIT 65 MINIMUM 45		18		21		1									
I-255	35+370		NB 16 RT	R2-1109 (4830)	TRUCKS OVER 4 TONS SPEED LIMIT 55		10		18		1									
I-255	35+700.18		NB 16 RT	XM-1 (18)	IL 255, MADISON, 17.0	2.25				17	1									
I-255	35+700.18		SB 16 LT	XM-1 (18)	IL 255, MADISON, 17.0	2.25				17	1									
I-255	36+000																			MOUNTED ON NEW TRUSS
	37+309.54		NB 16 RT	XM-1 (18)	IL 255, MADISON, 18.0	2.25				16	1									
	37+309.54		SB 16 LT	XM-1 (18)	IL 255, MADISON, 18.0	2.25				16	1									
I-255	37+425		SB 30 LT		EXIT 16 SEMINARY RD 1 1/2 MILES			136.5			2	W 12 X 26	2'-7"	7'-10"	20'-1"	22'-2"	1255	2.82	214	
I-255	38+015		SB 16 LT	R2-1109 (4830)	TRUCKS OVER 4 TONS SPEED LIMIT 55		10		18		1									
I-255	38+050		SB 16 LT	R2-4A (3672)	SPEED LIMIT 65 MINIMUM 45		18		20		1									
I-255	38+085		SB 16 LT	M3-3 (2412) M1-1100 (4536)	SOUTH ILLINOIS 255	2	11.25		18		1									
I-255	38+225																			MOUNTED ON NEW TRUSS
RAMP B		0+200	12 RT	W13-3 (3648)	RAMP 35 MPH		12		19		1									
RAMP A		0+295	12 LT	W4-5 (48)	ENTERING ROADWAY MERGE		16		20		1									
I-255	38+918.91		NB 16 RT	XM-1 (18)	IL 255, MADISON, 19.0	2.25				16	1									
I-255	38+918.91		SB 16 LT	XM-1 (18)	IL 255, MADISON, 19.0	2.25				16	1									
RAMP A		0+050	12 RT	R5-1100 (4854)	USE PROHIBITED		18		18		1									
RAMP B		0+525	12 LT	R5-1A (3624)	WRONG WAY	6			17		1									
RAMP B		0+525	12 RT	R5-1A (3624)	WRONG WAY	6			17		1									
RAMP B		0+580	12 LT	R5-1 (36)	DO NOT ENTER	9			17		1									
RAMP B		0+560	12 RT	R5-1 (36)	DO NOT ENTER	9			17		1									



PROPOSED SHOULDER MOUNTED DETAIL

BREAKAWAY WIDE FLANGE STEEL POSTS

NOTES:
1. FOR LOCATION OF A, B, L1, AND L2 SEE PROPOSED SHOULDER MOUNTED DETAILS.
2. SIGN TYPE PER MUTCD STANDARD EXCEPT SIGNS DETAILED ON SHEETS 31 THRU 44 OF 54.
3. CLEAR HEIGHT OF SIGNS LESS THAN 30'-0" FROM THE EOP IS 7'-0" FROM THE EOP ELEVATION TO THE BOTTOM OF SIGN.
4. CLEAR HEIGHT FOR SIGNS GREATER THAN OR EQUAL TO 30'-0" FROM THE EOP IS 5'-0" FROM THE EOP ELEVATION TO THE BOTTOM OF SIGN.

Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

FILE NAME = ...\sign-schedule-sheet-01.dgn	USER NAME = CFC...	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.000000 ' / IN.	CHECKED -	REVISED -
CB PROJECT NO 09025-6	PLOT DATE = 2/1/2011	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
SIGNS

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	4
		CONTRACT NO. 76E76		
		ILLINOIS FED. AID PROJECT		

PROPOSED SIGNING SCHEDULE

ALIGN	LOCATION			DESCRIPTION		SIGN PANEL (SQ FT)			POST		NO. OF	BREAKAWAY WIDE FLANGE STEEL POSTS						CONCRETE FOUNDATIONS		NOTES
	PROP. STA I-255	RAMP STA.	OFFSET EOP TO EDGE OF SIGN (FT)	TYPE SEE NOTE 2	LEGEND	TYPE 1	TYPE 2	TYPE 3	WOOD SIGN SUPPORT	TELESCOPING STEEL SIGN SUPPORT		POST TYPE AND SIZE	A	B	L1	L2	STRUCTURAL STEEL W	CONCRETE	REINFORCEMENT	
						9 SF	9<&<24	24 SF	LIN FT	LIN FT	POSTS						POUNDS	CU YDS	POUNDS	
RAMP D		0+390	12 LT	R5-1 (36)	DO NOT ENTER	9			17		1									
RAMP D		0+390	12 RT	R5-1 (36)	DO NOT ENTER	9			17		1									
RAMP D		0+355	12 LT	R5-1A (3624)	WRONG WAY	6			17		1									
RAMP D		0+355	12 RT	R5-1A (3624)	WRONG WAY	6			17		1									
RAMP C		0+040	12 RT	R5-I100 (4854)	USE PROHIBITED		18		17		1									
RAMP D		0+100	12 RT	W13-3 (3648)	RAMP 40 MPH		12		17		1									
I-255	39+050		SB 12 LT	M3-3 (2412) M1-I100 (4536)	SOUTH ILLINOIS 255	2	11.25		19		1									
RAMP C		0+235	12 LT	W4-5 (48)	ENTERING ROADWAY MERGE		16		17		1									
I-255	39+225		SB 30 LT		EXIT 19 HUMBERT ROAD			127.5			2	W 14 X 38	3'-0"	12'-0"	18'-10"	22'-8"	1865	4.18	244	
I-255	39+355		SB 16 LT	R2-I109 (4830)	TRUCKS OVER 4 TONS SPEED LIMIT 55		10		18		1									
I-255	39+390		SB 16 LT	R2-4A (3672)	SPEED LIMIT 65 MINIMUM 45		18		21		1									
I-255	39+425		SB 16 LT	M3-3 (2412) M1-I100 (4536)	SOUTH ILLINOIS 255	2	11.25		18		1									
I-255	39+425		SB 16 LT	R2-4A (3672)	SPEED LIMIT 65 MINIMUM 45		18		21		1									
I-255	39+450																			MOUNTED ON NEW TRUSS
RAMP E		0+290	12 LT	W4-5 (48)	ENTERING ROADWAY MERGE		16		20		1									
RAMP F		0+100	12 RT	W13-3 (3648)	RAMP 45 MPH		12		19		1									
I-255	39+700		NB 12 RT	M3-1 (2412) M1-4 (24)	NORTH US ROUTE 67	2 4			17		1									
RAMP F		0+345	12 RT	R5-1A (3824)	WRONG WAY	8			17		1									
RAMP F		0+345	12 LT	R5-1A (3824)	WRONG WAY	8			18		1									
RAMP F		0+380	12 LT	R5-1 (36)	DO NOT ENTER	9			19		1									
RAMP F		0+380	12 RT	R5-1 (36)	DO NOT ENTER	9			18		1									
RAMP E		0+050	12 RT	R5-I100 (4854)	USE PROHIBITED		18		20		1									
RAMP H		0+585	12 RT	R5-1 (36)	DO NOT ENTER	9			18		1									
RAMP H		0+585	12 LT	R5-1 (36)	DO NOT ENTER	9			19		1									
RAMP H		0+550	12 LT	R5-1A (3624)	WRONG WAY	8			18		1									
RAMP H		0+550	12 RT	R5-1A (3624)	WRONG WAY	8			17		1									
RAMP H		0+601	12 RT	R1-1 (30) R1-I100 (3018)	STOP CROSS TRAFFIC DOES NOT STOP	6.25 3.75			17		1									
RAMP H		0+802	12 LT	R1-1 (30) R1-I100 (3018)	STOP CROSS TRAFFIC DOES NOT STOP	6.25 3.75			18		1									
RAMP G		0+025	12 RT	R5-I100 (4854)	USE PROHIBITED		18		20		1									
RAMP G		0+310	12 LT	W4-5 (48)	ENTERING ROADWAY MERGE		16		18		1									
I-255	40+150		SB 30 LT		EXIT 19 HUMBERT RD 3/4 MILE			126.0			2	W10 X 26	2'-5"	9'-7"	20'-2"	21'-0"	1226	2.54	196	
I-255	40+250		SB 16 LT	M3-3 (2412) M1-I100 (4536)	SOUTH ILLINOIS 255	2	11.25		18		1									
RAMP H		0+200	12 RT	W13-3 (3648)	RAMP 45 MPH		12		19		1									
I-255	40+526.27		NB 16 RT	XM-1 (18)	IL 255, MADISON, 20.0	2.25				16	1									
I-255	40+526.27		SB 16 LT	XM-1 (18)	IL 255, MADISON, 20.0	2.25				16	1									
I-255	40+450																			MOUNTED ON NEW TRUSS
HUMBERT RD.	19+860		30 RT		IL 255 SOUTH TO I-270 →			118.8			2	W 8 X 18	2'-6"	10'-0"	15'-10"	16'-6"	672	1.4	156	
HUMBERT RD.	19+920		30 LT		IL 255 SOUTH TO I-270 ←			118.8			2	W 8 X 15	2'-6"	10'-0"	14'-8"	14'-5"	510	1.4	156	
HUMBERT RD.	19+981																			MOUNTED ON BRIDGE
HUMBERT RD.	20+019																			MOUNTED ON BRIDGE
HUMBERT RD.	20+080		30 RT		IL 255 NORTH GODFREY ←			118.8			2	W 8 X 15	2'-6"	10'-0"	15'-0"	15'-0"	525	1.4	156	
HUMBERT RD.	20+140		30 LT		IL 255 NORTH GODFREY →			118.8			2	W 8 X 15	2'-6"	10'-0"	14'-6"	14'-5"	510	1.4	156	
IL-111	29+825		30 RT		IL 255 SOUTH TO I-270 →			118.8			2	W 10 X 22	2'-6"	10'-0"	18'-1"	18'-3"	932	2.36	184	
IL-111	29+890		30 LT		IL 255 SOUTH TO I-270 ←			118.8			2	W 10 X 26	2'-6"	10'-0"	19'-10"	20'-0"	1192	2.54	196	
IL-111	29+981																			MOUNTED ON BRIDGE
IL-111	30+019																			MOUNTED ON BRIDGE
IL-111	30+070		36 RT		IL 255 NORTH GODFREY ←			118.8			2	W 8 X 15	2'-6"	10'-0"	14'-6"	14'-3"	507	1.4	156	
IL-111	30+160		41 LT		IL 255 NORTH GODFREY →			118.8			2	W 8 X 15	2'-6"	10'-0"	15'-8"	16'-3"	680	1.4	156	
TOTALS						214	389.5	1714	930	130							12731.0	36.4	2536.0	

Coombe-Bloxdorf P.C.
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-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

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CB PROJECT NO 09025-6	PLOT DATE = 2/1/2011	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
SIGNS

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	5
		CONTRACT NO. 76E76		
	ILLINOIS FED. AID PROJECT			

GUARDRAIL

LOCATION	STATION			DIRECTION	OFFSET	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FT POSTS	TRAFFIC BARRIER TERMINAL		GUARDRAIL MARKERS, TYPE A	TERMINAL MARKER - DIRECT APPLIED
							TYPE 1 (SPECIAL) TANGENT	TYPE 2		
						FOOT	EACH	EACH	EACH	EACH
IL 255	35+940.110	TO	35+997.260	NB	RT SHLD	187.5	1	1	4	1
	35+921.801	TO	36+024.671	NB	LT SHLD	337.5	1	1	6	1
	36+002.759	TO	36+021.809	NB	MEDIAN	62.5	1	1	4	1
	38+165.110	TO	38+222.260	NB	RT SHLD	187.5	1	1	4	1
	38+146.801	TO	38+249.671	NB	LT SHLD	337.5	1	1	6	1
	38+227.759	TO	38+246.809	NB	MEDIAN	62.5	1	1	4	1
	39+390.110	TO	39+447.260	NB	RT SHLD	187.5	1	1	4	1
	39+371.801	TO	39+474.670	NB	LT SHLD	337.5	1	1	6	1
	39+452.759	TO	39+471.809	NB	MEDIAN	62.5	1	1	4	1
	40+452.740	TO	40+509.890	SB	RT SHLD	187.5	1	1	4	1
	40+425.329	TO	40+528.199	SB	LT SHLD	337.5	1	1	6	1
	40+428.191	TO	40+447.241	SB	MEDIAN	62.5	1	1	4	1
	TOTAL					2350.0	12	12	56	12

STATION RANGES SHOWN ARE LIMITS OF STEEL PLATE BEAM GUARDRAIL PLACEMENT

FILE NAME = ...\D876E76-Sht-Schedule.dgn	USER NAME = CFC...	DESIGNED -	REVISED -
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	PLOT DATE = 2/1/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

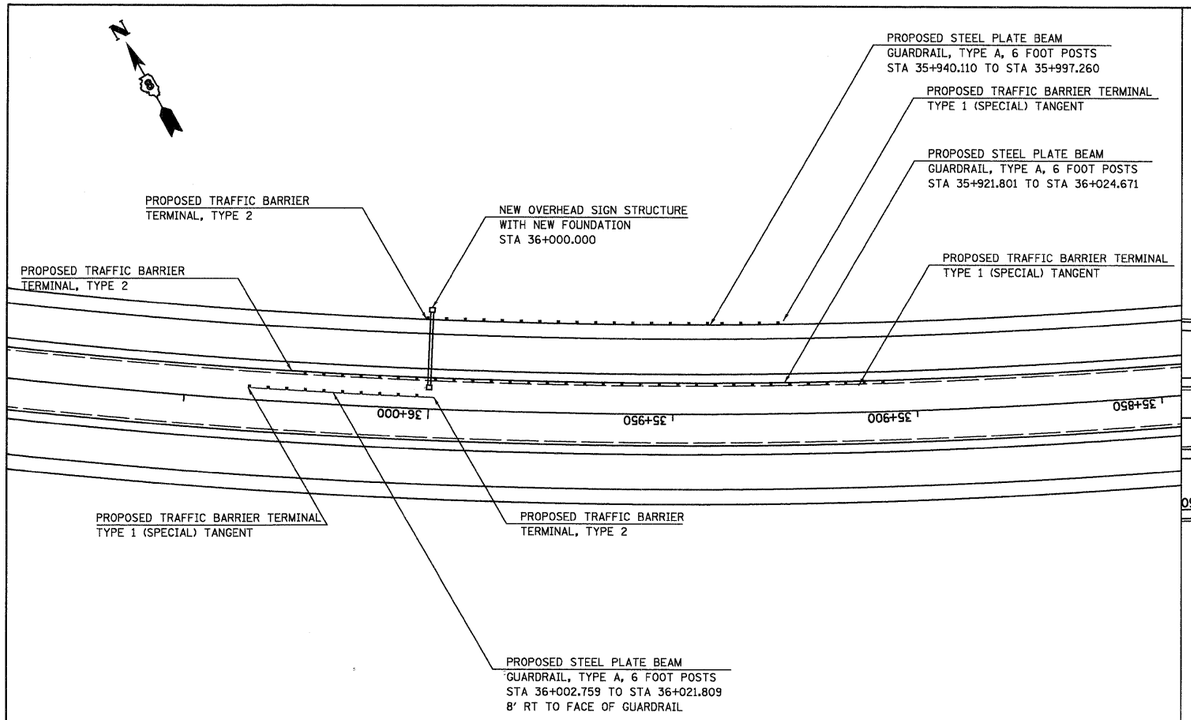
HORNER & SHIFRIN, INC. ENGINEERS

SCALE: NONE

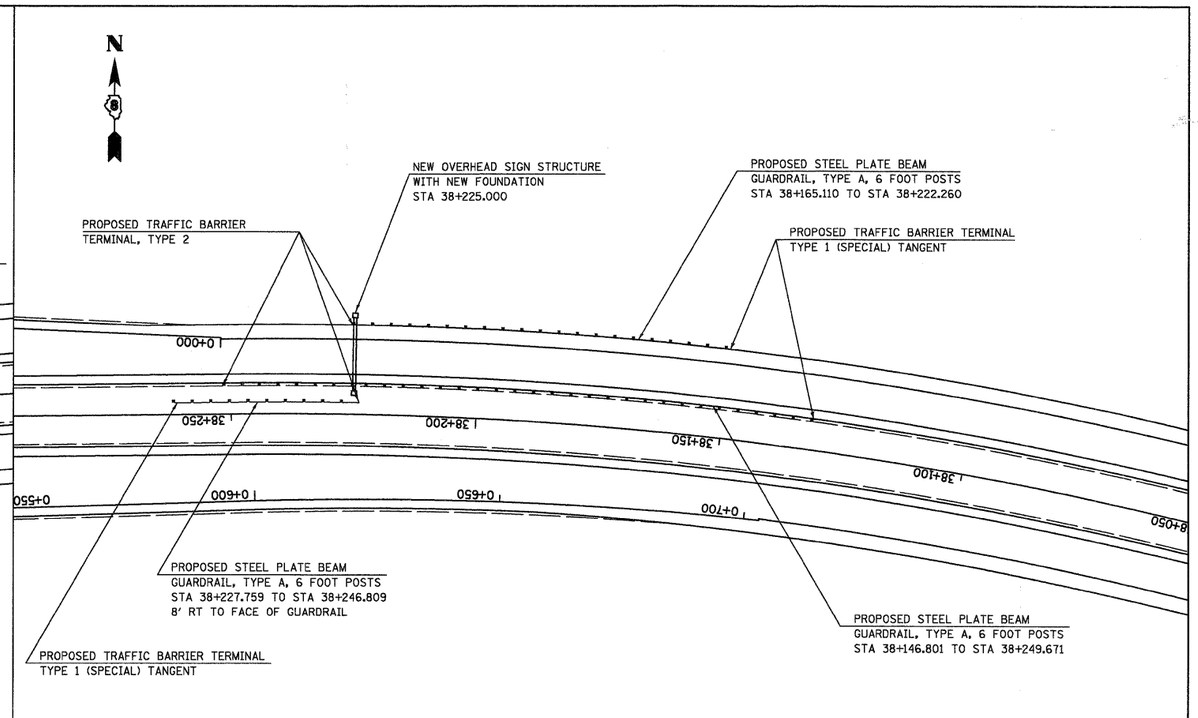
SCHEDULES OF QUANTITIES
GUARDRAIL

SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	6
		CONTRACT NO. 76E76		
	ILLINOIS	FED. AID PROJECT		



OVERHEAD SIGN STRUCTURE – STA 36+000



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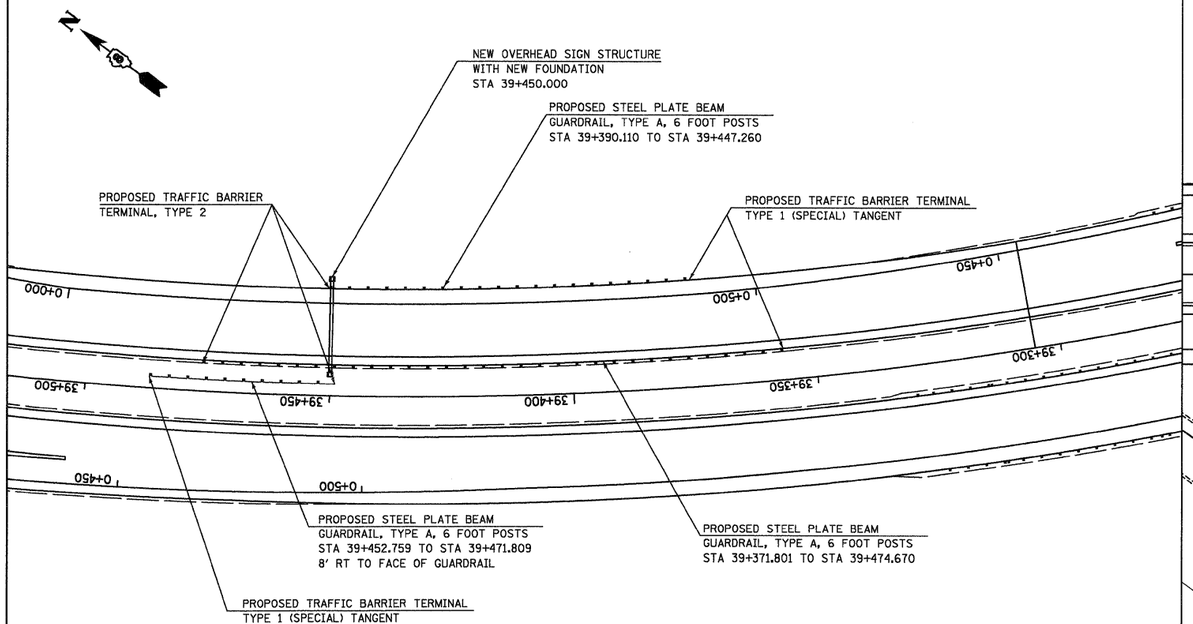
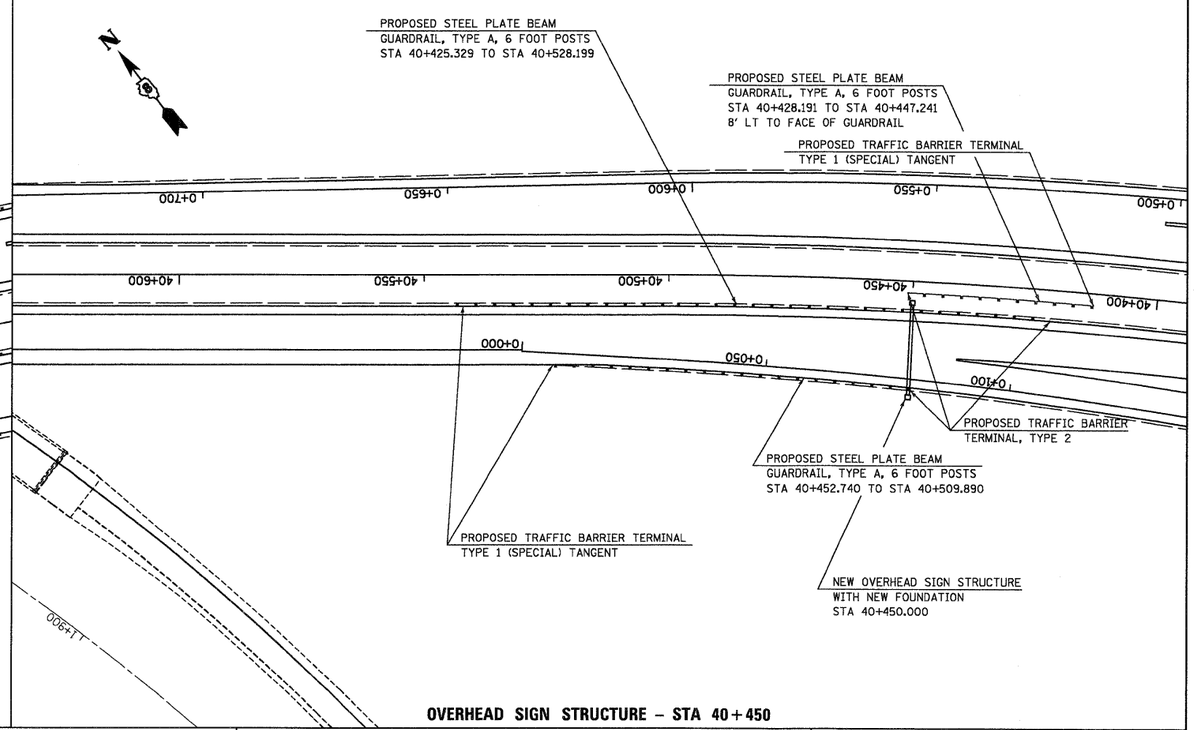


OVERHEAD SIGN STRUCTURE – STA 39+450



OVERHEAD SIGN STRUCTURE – STA 40+450

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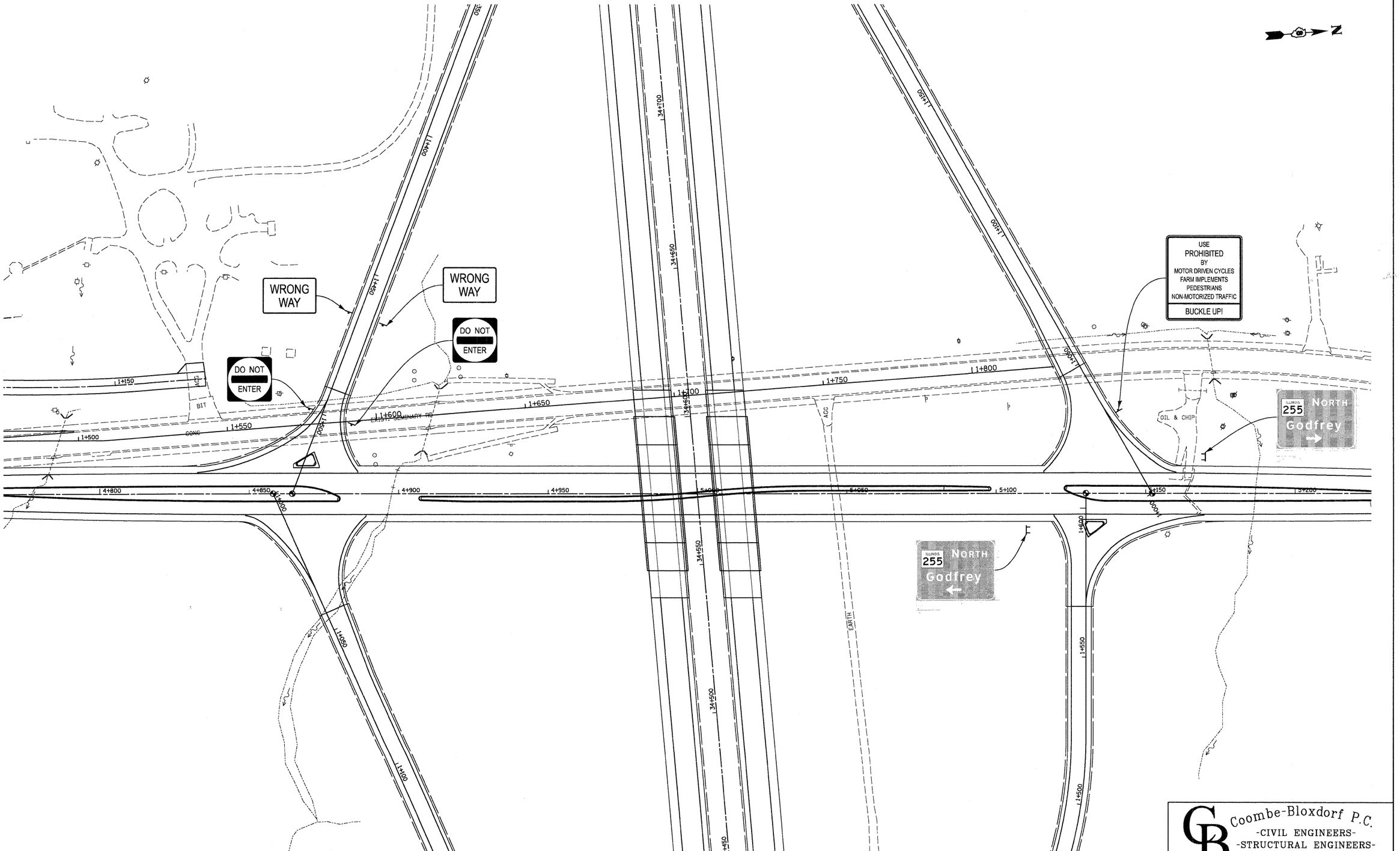
	PLOT DATE = 2/1/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL LAYOUT FOR OVERHEAD SIGN STRUCTURES

SCALE: 1"=50' | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	7
		CONTRACT NO. 76E76		
	ILLINOIS	FED. AID PROJECT		



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CB PROJECT NO 09025-6	PLOT DATE = 2/1/2011	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
SEMINARY ROAD

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

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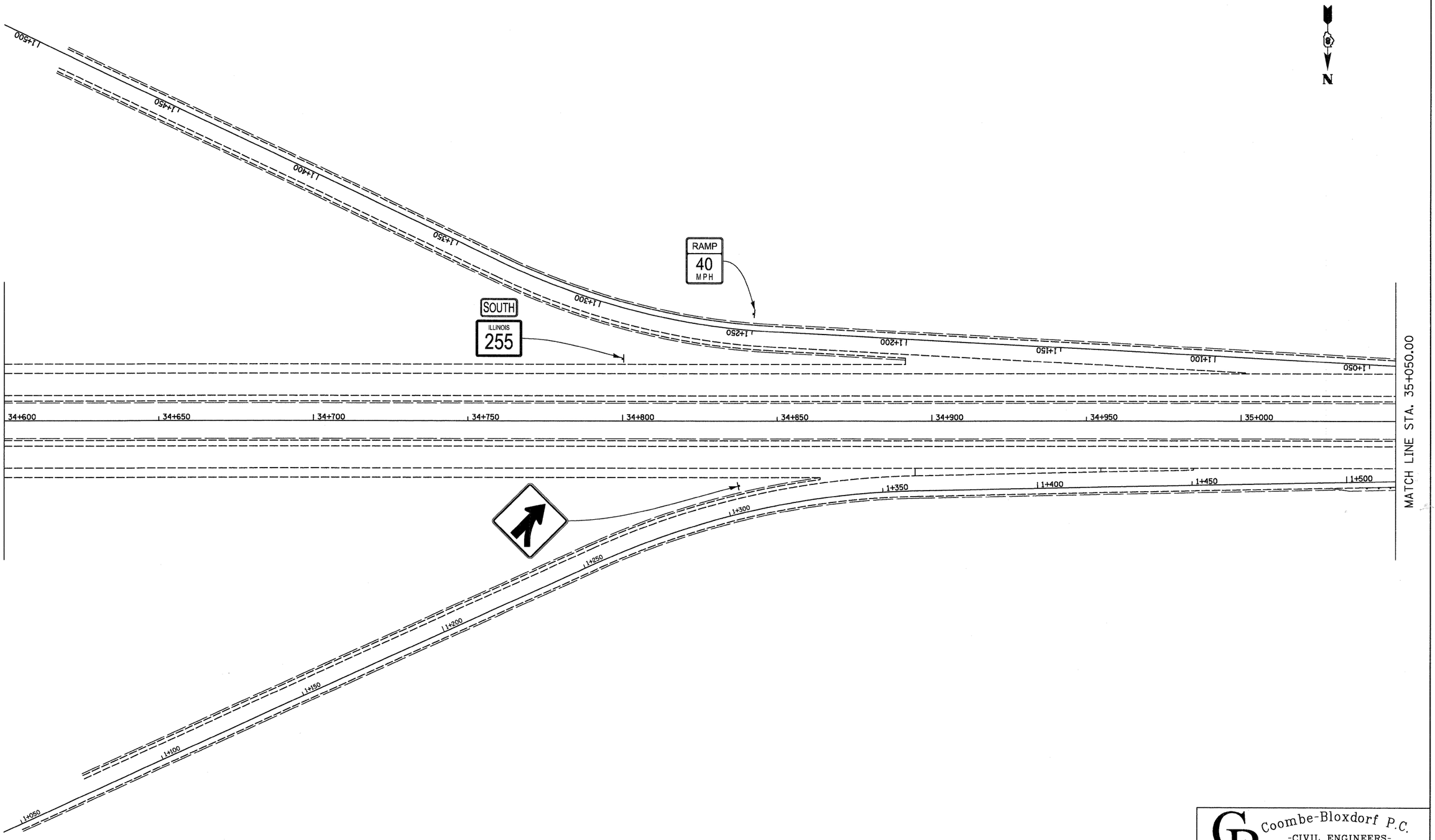
-CIVIL ENGINEERS-
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	8
		CONTRACT NO. 76E76		
		ILLINOIS FED. AID PROJECT		



Coombe-Bloxdorf P.C.
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-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

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CB PROJECT NO 29025-6	PLOT DATE = 2/1/2011	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
IL 255 (FAP 310)

SCALE: | SHEET NO. OF SHEETS | STA. 34+600 | TO STA. 35+050

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	9
		CONTRACT NO. 76E76		
	ILLINOIS FED. AID PROJECT			

N

EXIT 16
Seminary Road

MATCH LINE STA. 35+050.00

MATCH LINE STA. 35+500.00

MATCH

11+000
35+050
35+100
35+150
35+200
35+250
35+300
35+350
35+400
35+450
11+550
11+600
11+650
11+700

NORTH
ILLINOIS
255

SPEED LIMIT
65
MINIMUM
45

TRUCKS
OVER
4 TONS
SPEED LIMIT
55

FILE NAME = ...\sign-fap310-plan-sheet-02.dgn	USER NAME = CFC...	DESIGNED -	REVISED -
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CB PROJECT NO 09025-6	PLOT DATE = 2/1/2011	DATE - / /	REVISED -

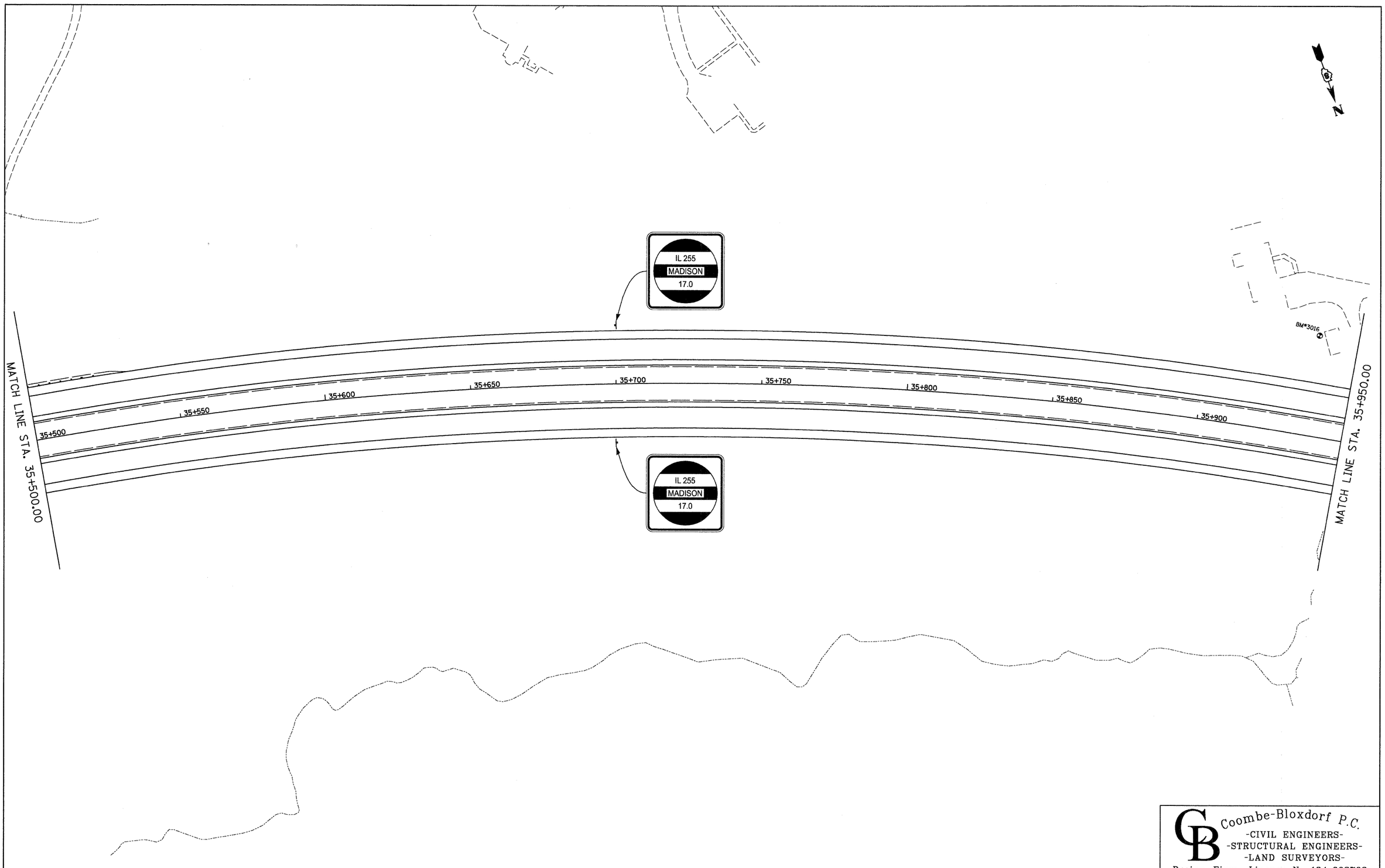
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
IL 255 (FAP 310)

SCALE: | SHEET NO. OF SHEETS | STA. 35+050 TO STA. 35+500

Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	10
		CONTRACT NO. 76E76		
	ILLINOIS FED. AID PROJECT			



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CB PROJECT NO 09025-6	PLOT DATE = 2/1/2011	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
IL 255 (FAP 310)

SCALE: | SHEET NO. OF SHEETS | STA. 35+500 | TO STA. 35+950

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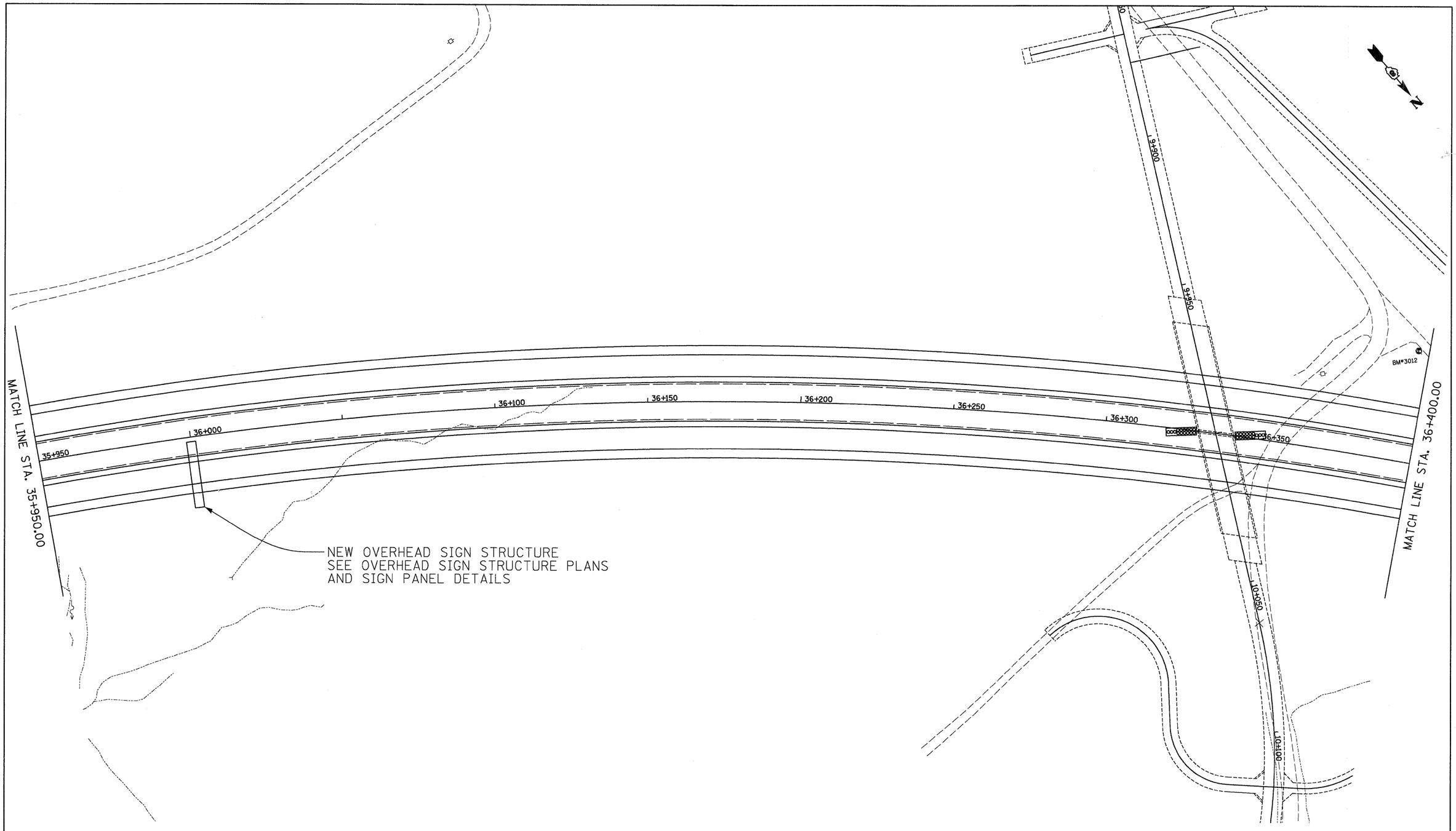
-LAND SURVEYORS-
Design Firm License No. 184-002703

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	11
		CONTRACT NO. 76E76		
	ILLINOIS	FED. AID PROJECT		



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CB PROJECT NO 09025-6	PLOT DATE = 2/1/2011	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
IL 255 (FAP 310)

SCALE: | SHEET NO. OF SHEETS | STA. 35+950 | TO STA. 36+400

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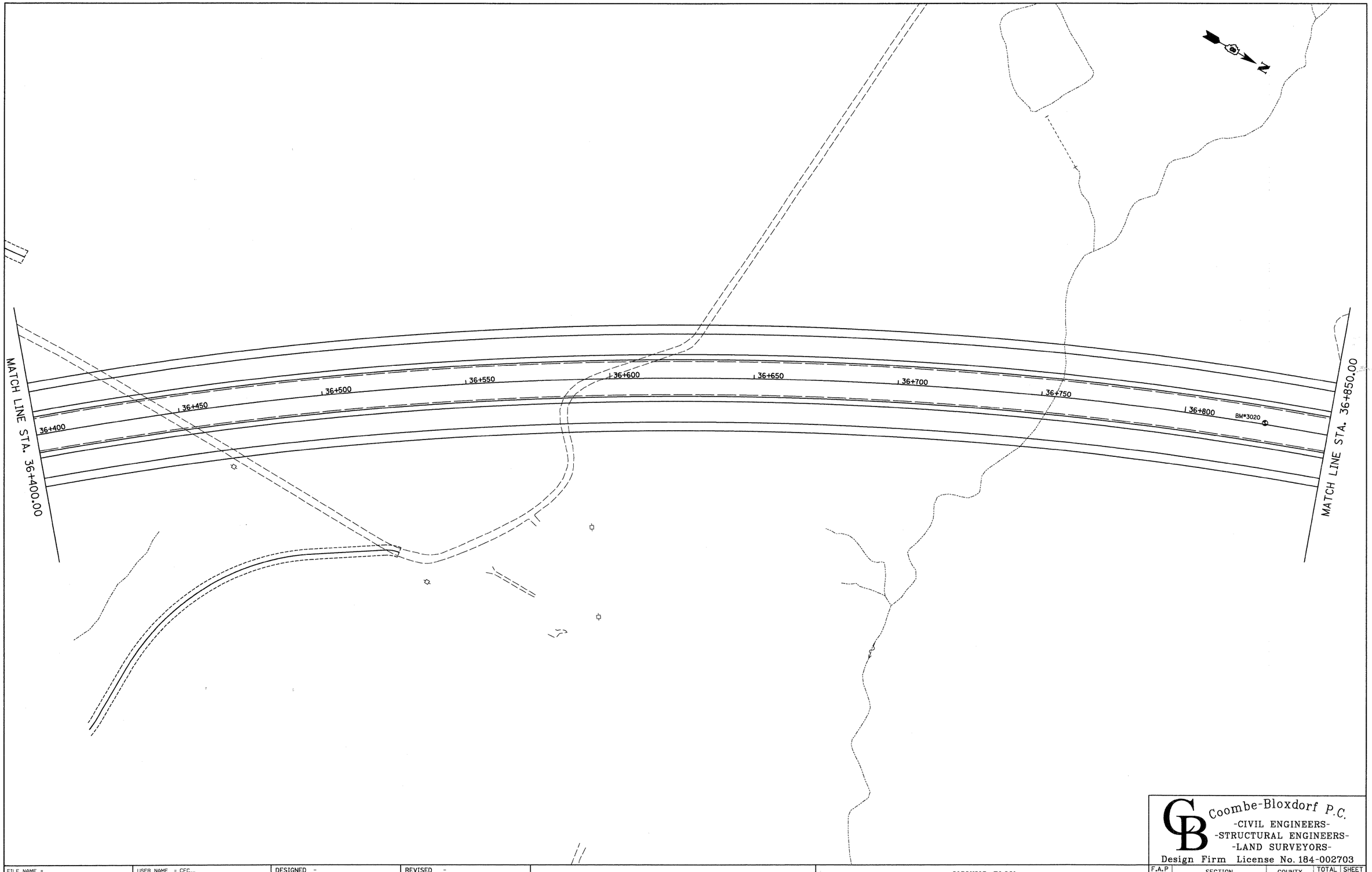
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	12
		CONTRACT NO. 76E76		
	ILLINOIS FED. AID PROJECT			



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CB PROJECT NO 09026-6	PLOT DATE = 2/1/2011	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
IL 255 (FAP 310)

SCALE: | SHEET NO. OF SHEETS | STA. 36+400 | TO STA. 36+850

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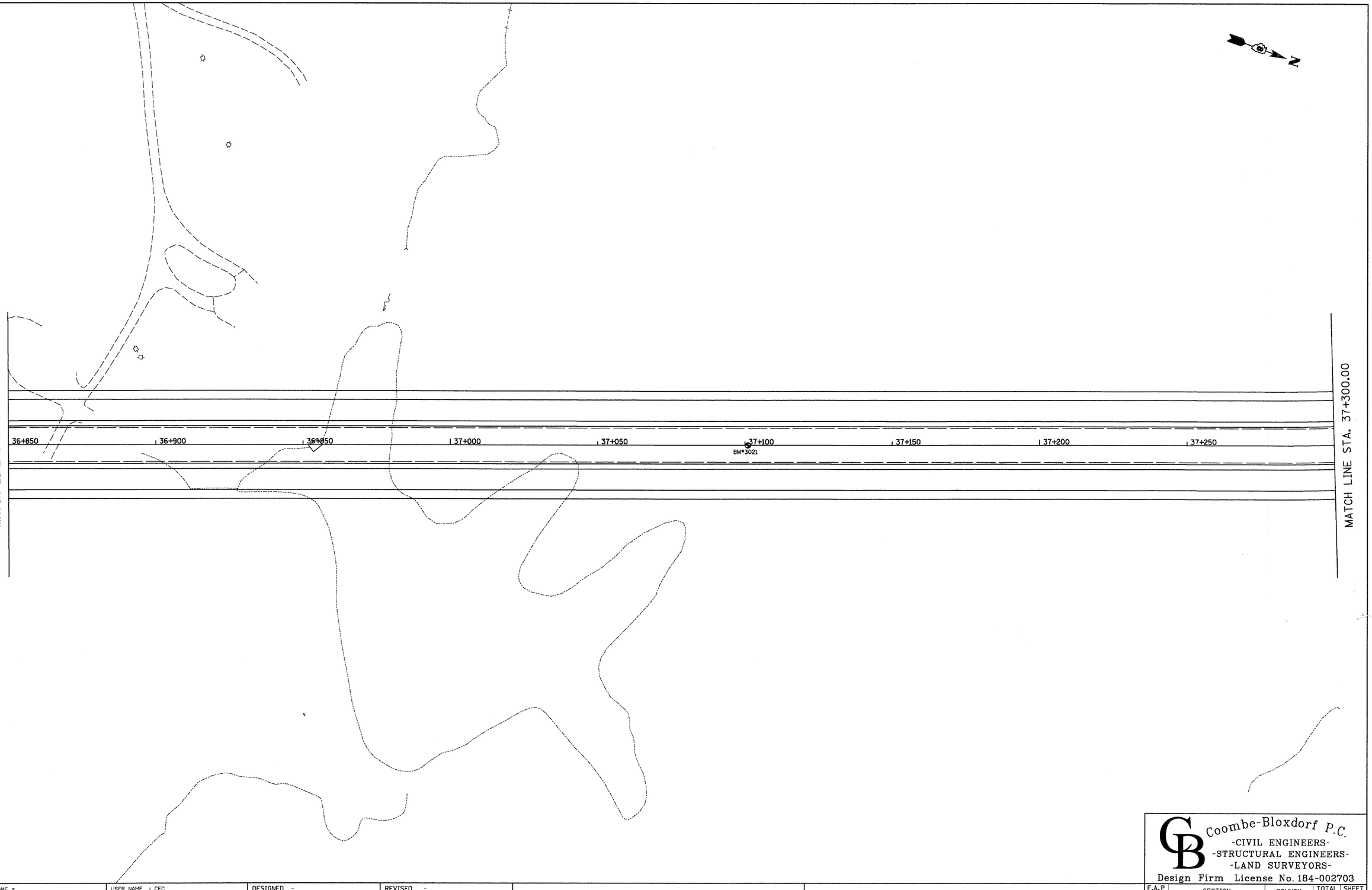
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	13
		CONTRACT NO. 76E76		
		ILLINOIS FED. AID PROJECT		



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CB PROJECT NO 09025-6	PLOT DATE = 2/1/2011	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
IL 255 (FAP 310)

SCALE: | SHEET NO. OF SHEETS | STA. 36+850 | TO STA. 37+300

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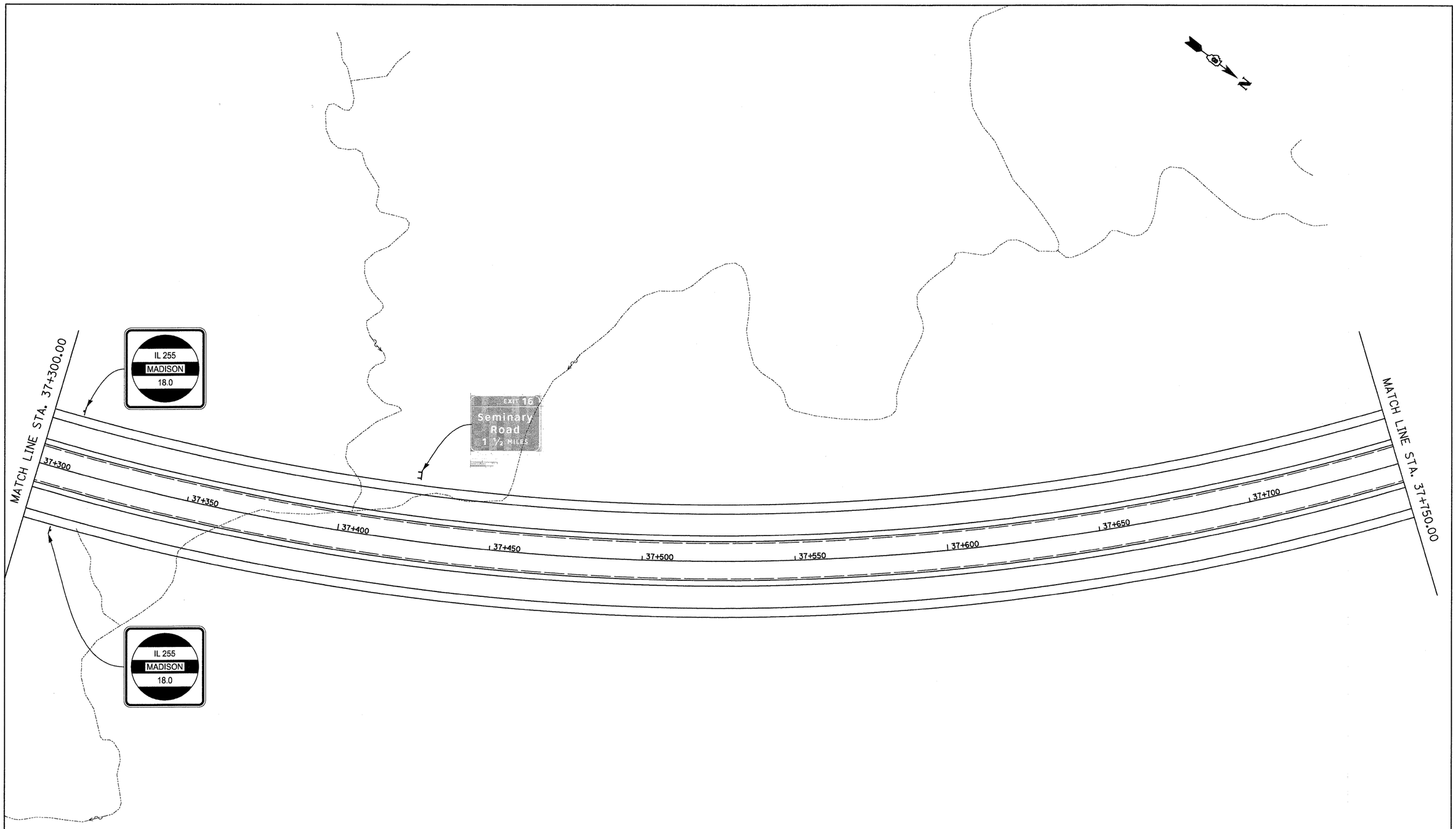
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	14
		CONTRACT NO. 76E76		
	ILLINOIS	FED. AID PROJECT		



Coombe-Bloxdorf P.C.
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-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

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CB PROJECT NO 09025-6	PLOT DATE = 2/1/2011	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
IL 255 (FAP 310)

SCALE: | SHEET NO. OF SHEETS | STA. 37+300 | TO STA. 37+750

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	15
		CONTRACT NO. 76E76		
	ILLINOIS FED. AID PROJECT			

Coombe-Bloxdorf P.C.
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-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

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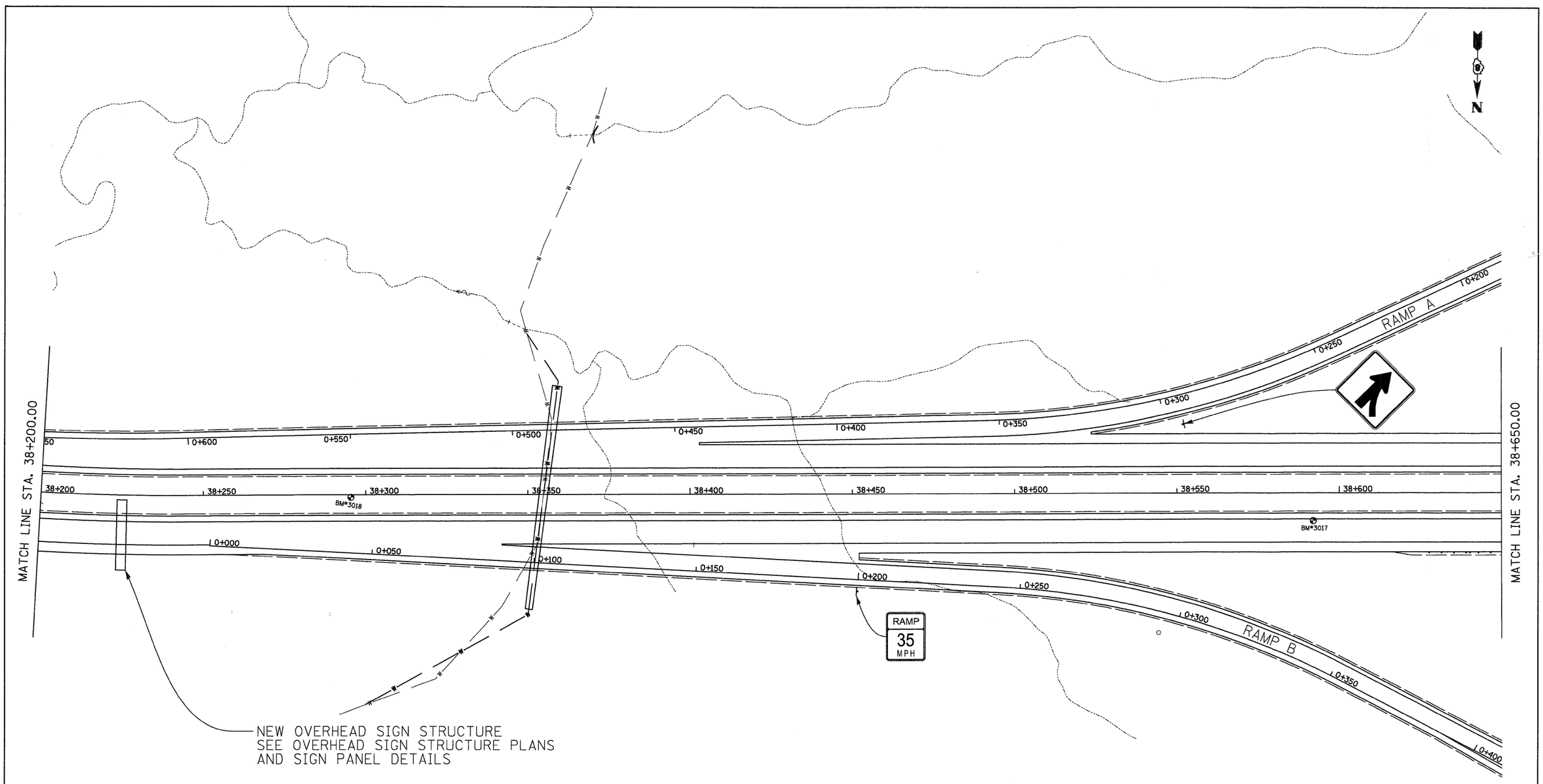
CB PROJECT NO 09025-6	PLOT DATE = 2/1/2011	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
IL 255 (FAP 310)

SCALE: | SHEET NO. OF SHEETS | STA. 37+750 TO STA. 38+200

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	16
		CONTRACT NO. 76E76		
	ILLINOIS FED. AID PROJECT			



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CB PROJECT NO 89025-6	PLOT DATE = 2/1/2011	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
IL 255 (FAP 310)

SCALE: | SHEET NO. OF SHEETS | STA. 38+200 | TO STA. 38+650

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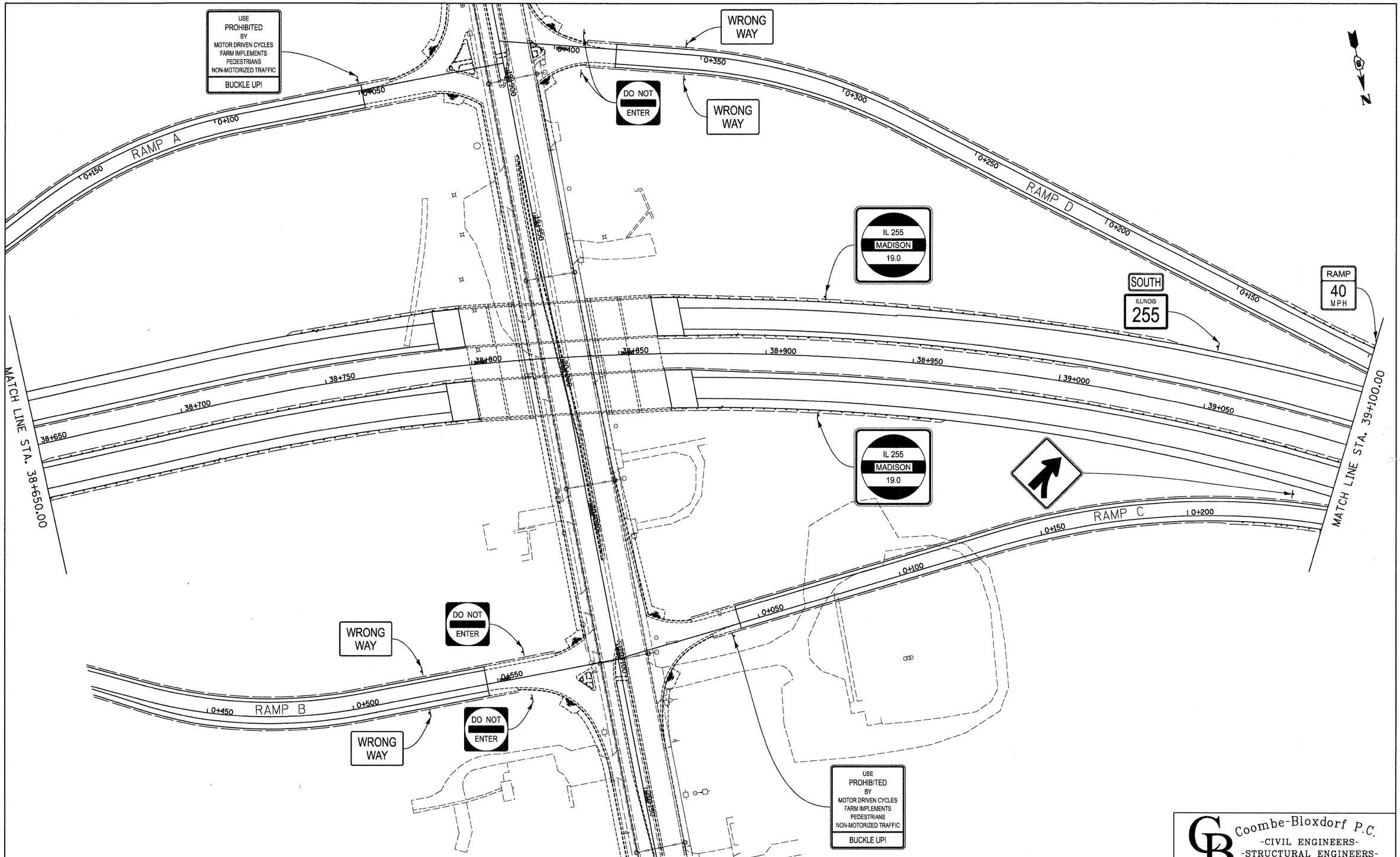
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	17
		CONTRACT NO. 76E76		
	ILLINOIS	FED. AID PROJECT		



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-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

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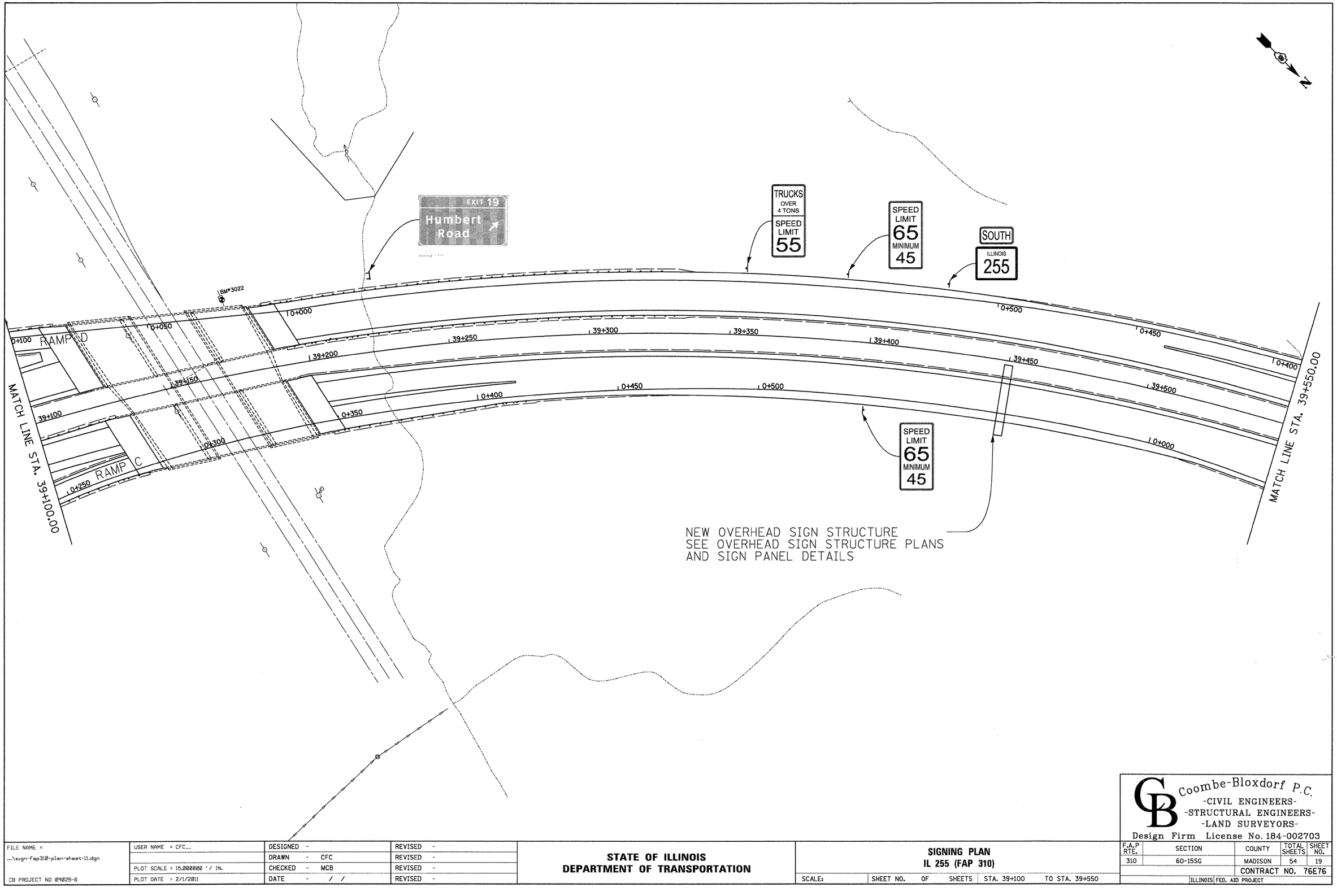
CB PROJECT NO 09025-6	PLOT DATE = 2/1/2011	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
IL 255 (FAP 310)

SCALE: | SHEET NO. OF SHEETS | STA. 38+650 TO STA. 39+100

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	18
		CONTRACT NO. 76E76		
	ILLINOIS	FED. AID PROJECT		



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CB PROJECT NO 09025-6	PLOT DATE = 2/1/2011	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
IL 255 (FAP 310)

SCALE: | SHEET NO. OF SHEETS | STA. 39+100 | TO STA. 39+550

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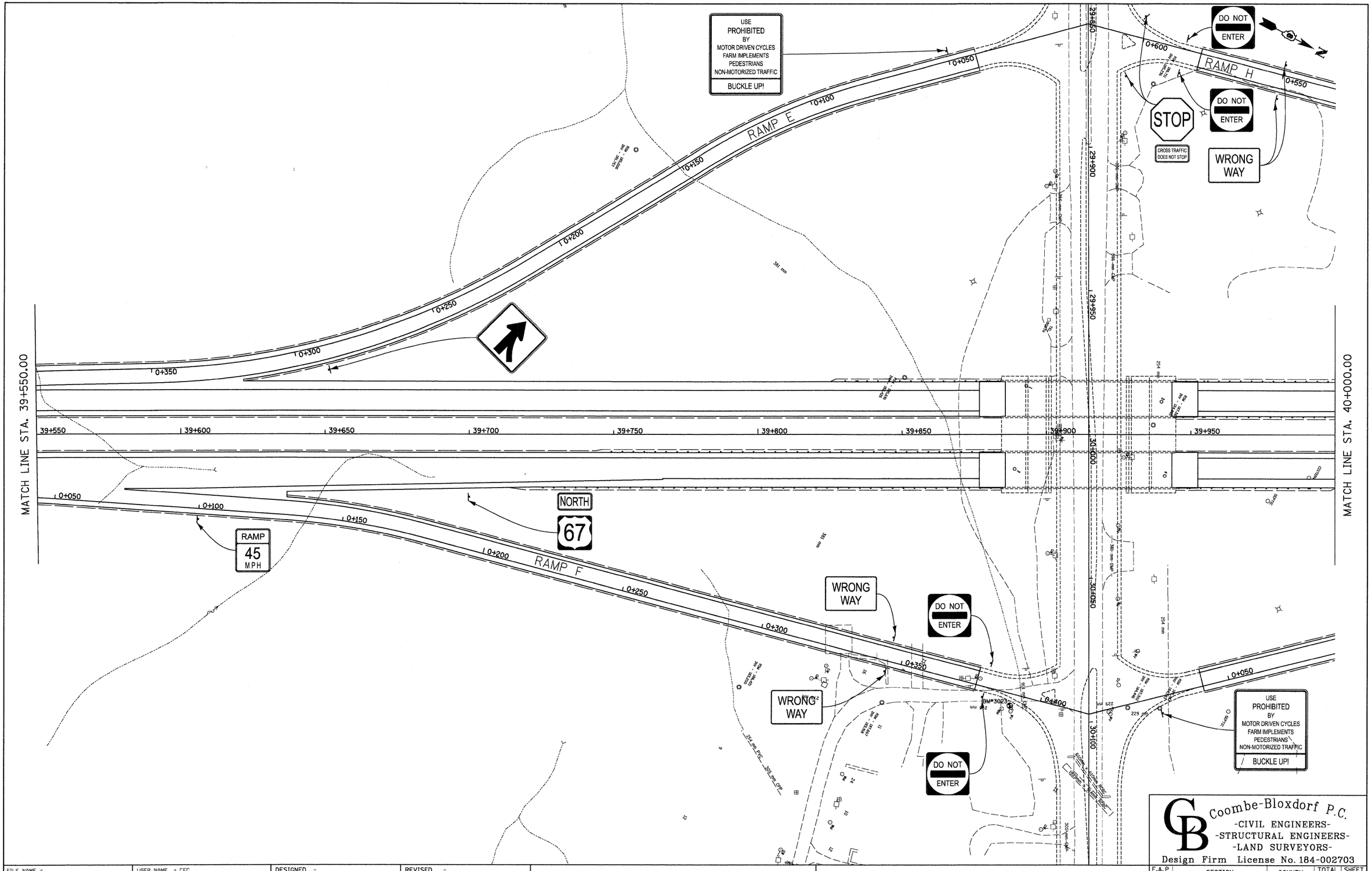
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	19
		CONTRACT NO. 76E76		
	ILLINOIS FED. AID PROJECT			



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CB PROJECT NO 09025-6	PLOT DATE = 2/1/2011	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
IL 255 (FAP 310)

SCALE: | SHEET NO. OF SHEETS | STA. 39+550 TO STA. 40+000

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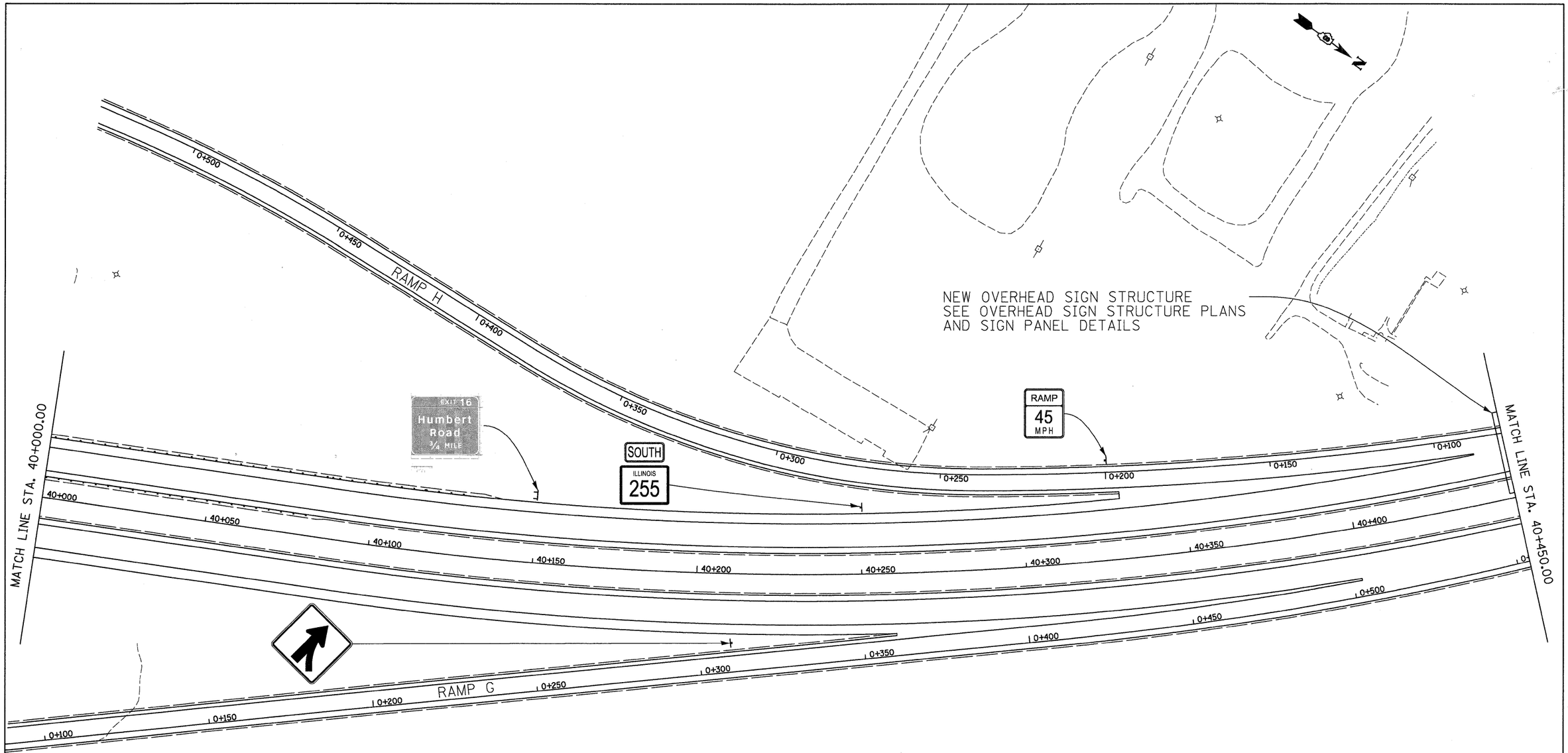
-LAND SURVEYORS-
Design Firm License No. 184-002703

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	20
		CONTRACT NO. 76E76		
	ILLINOIS FED. AID PROJECT			



Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

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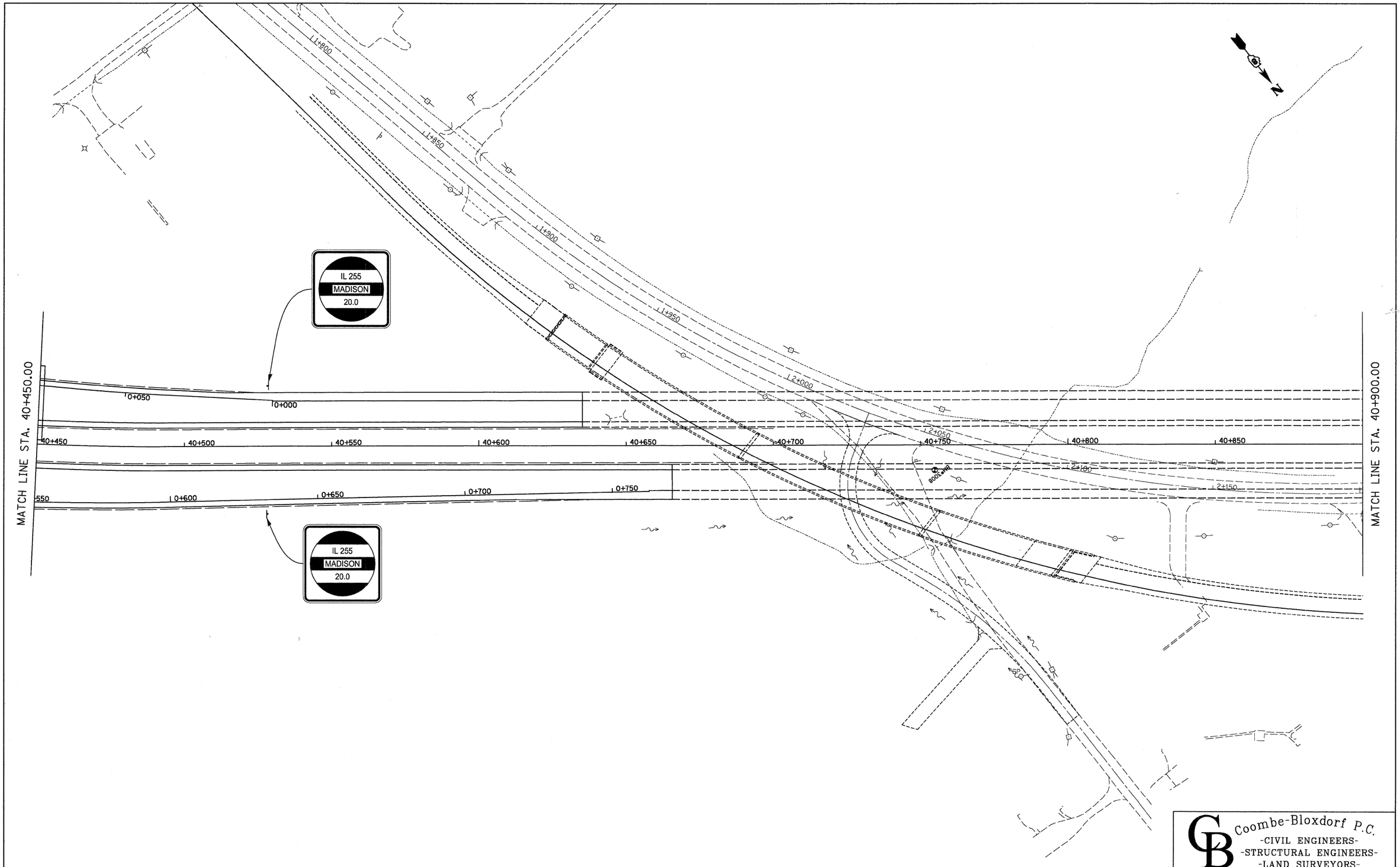
CB PROJECT NO 09025-6	PLOT DATE = 2/1/2011	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
IL 255 (FAP 310)

SCALE: | SHEET NO. OF SHEETS | STA. 40+000 TO STA. 40+450

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	21
		CONTRACT NO. 76E76		
	ILLINOIS FED. AID PROJECT			



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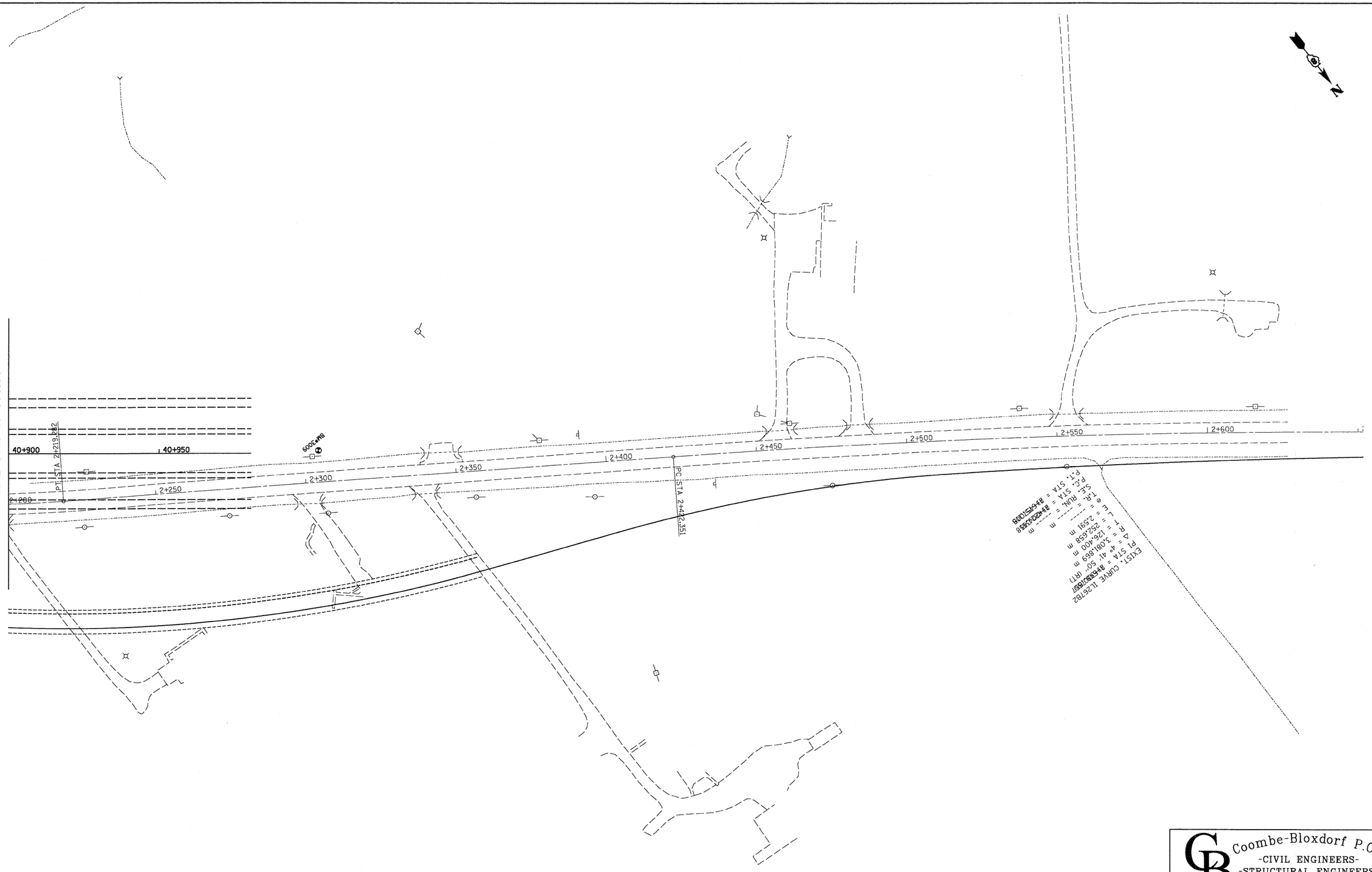
CB PROJECT NO 09025-6	PLOT DATE = 2/1/2011	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
IL 255 (FAP 310)

SCALE: | SHEET NO. OF SHEETS | STA. 40+450 | TO STA. 40+900

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	22
		CONTRACT NO. 76E76		
	ILLINOIS	FED. AID PROJECT		



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CB PROJECT NO 09025-9	PLOT DATE = 2/1/2011	DATE - / /	REVISED -

STATE OF ILLINOIS
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SIGNING PLAN
IL 255 (FAP 310)

SCALE: | SHEET NO. OF SHEETS | STA. 40+900 | TO STA. 40+980.50

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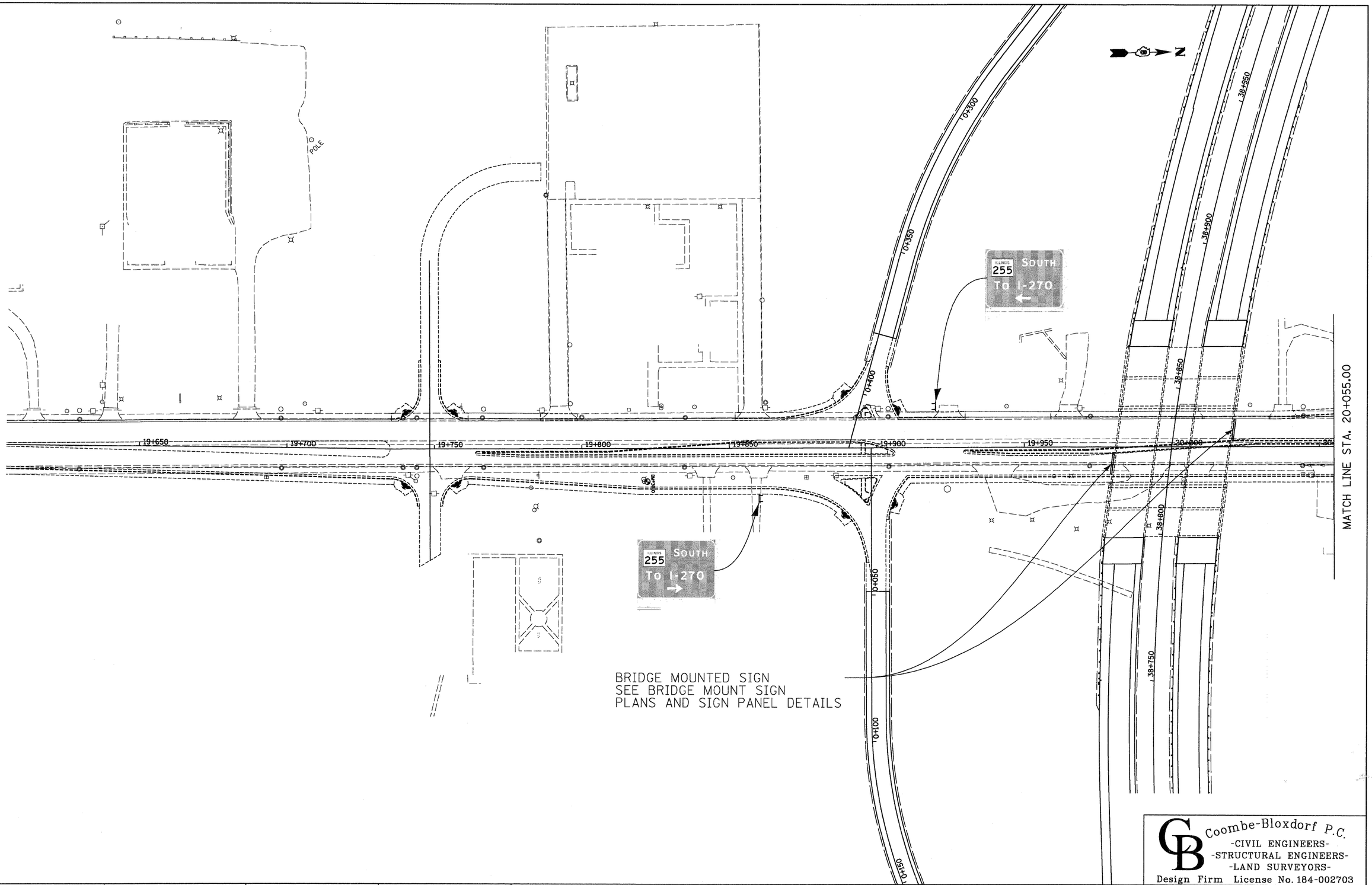
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	23
		CONTRACT NO. 76E76		
	ILLINOIS FED. AID PROJECT			



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CB PROJECT NO 09025-6	PLOT DATE = 2/1/2011	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
HUMBERT ROAD

SCALE:	SHEET NO. OF SHEETS	STA. 19+600	TO STA. 20+055

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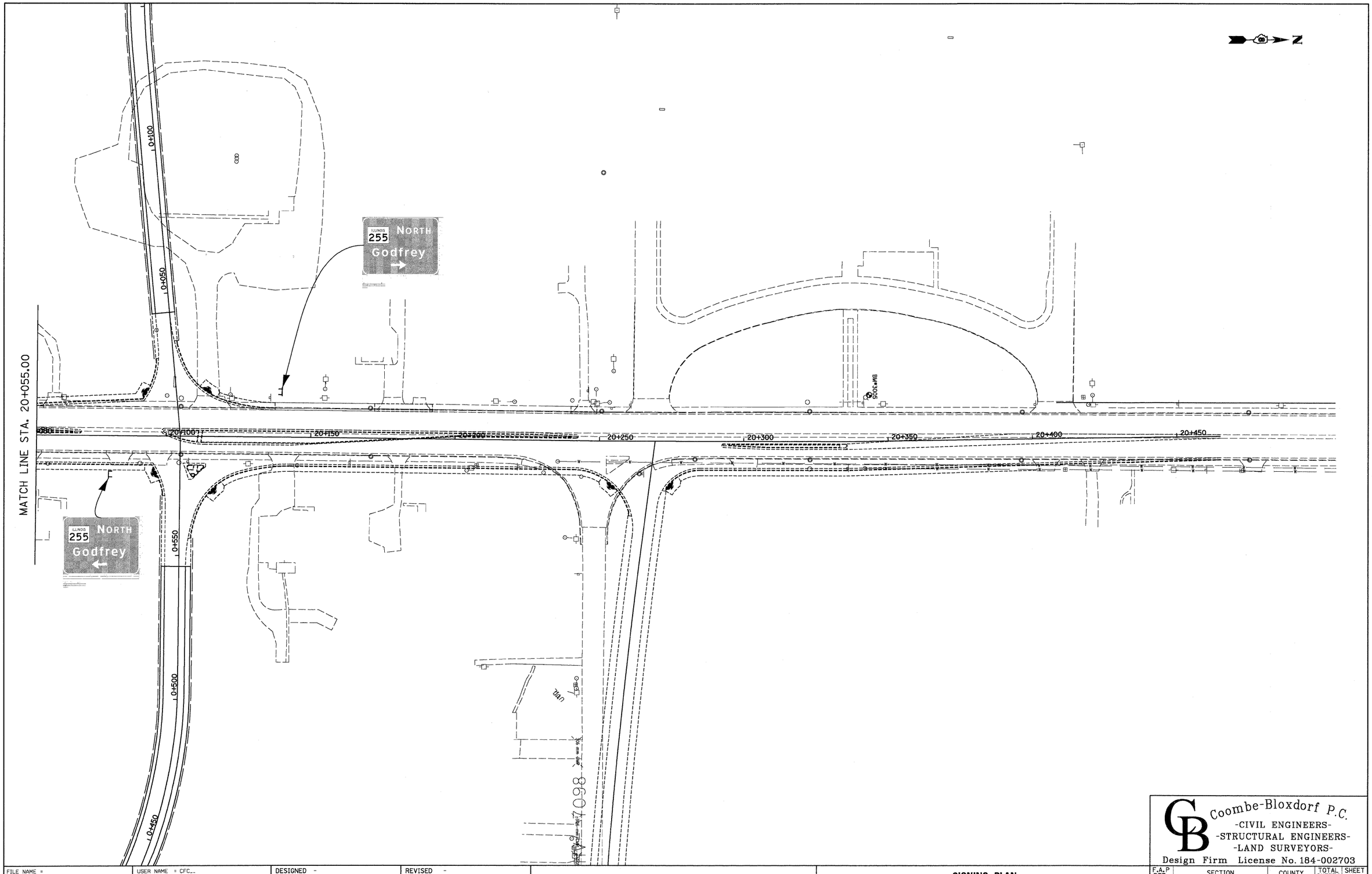
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	24
		CONTRACT NO. 76E76		
	ILLINOIS	FED. AID PROJECT		



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CB PROJECT NO 09025-6	PLOT DATE = 2/1/2011	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
HUMBERT ROAD

SCALE: | SHEET NO. OF SHEETS | STA. 20+055 TO STA. 20+505

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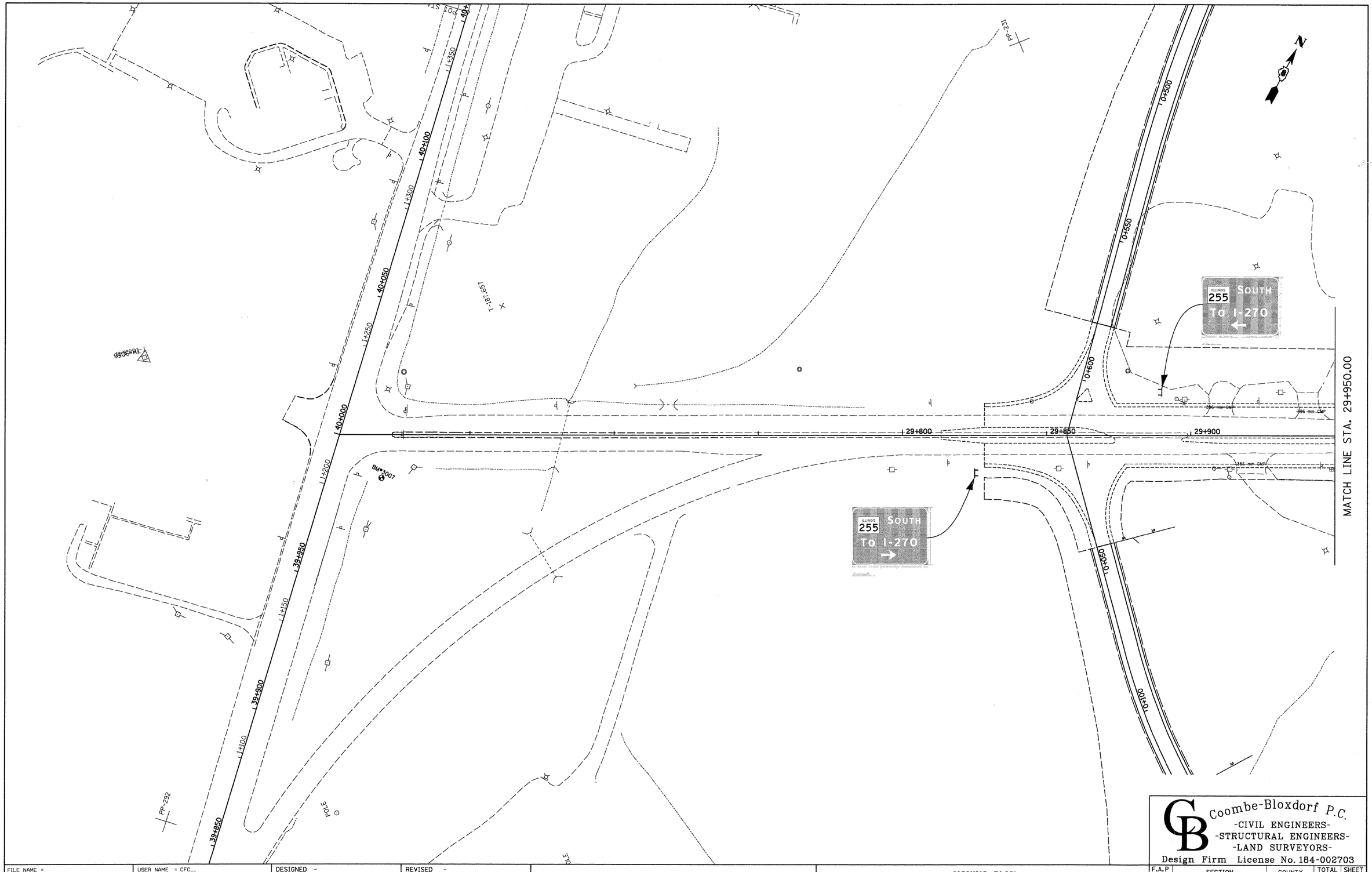
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	25
		CONTRACT NO. 76E76		
	ILLINOIS FED. AID PROJECT			



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CB PROJECT NO 09025-6	PLOT DATE = 2/1/2011	DATE - / /	REVISED -

STATE OF ILLINOIS
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SIGNING PLAN
IL 111

SCALE: | SHEET NO. OF SHEETS | STA. 29+600 | TO STA. 29+950

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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	26
		CONTRACT NO. 76E76		
	ILLINOIS FED. AID PROJECT			

BRIDGE MOUNTED SIGN
SEE BRIDGE MOUNT SIGN
PLANS AND SIGN PANEL DETAILS

ILLINOIS 255 NORTH Godfrey →

ILLINOIS 255 NORTH Godfrey ←

MATCH LINE STA. 29+950.00

MATCH LINE STA. 30+400.00

29+950 30+000 30+050 30+100 30+150 30+200 30+250 30+300 30+350

39+900 39+950 40+000 40+050 40+100

39+800 39+850 40+300 40+350 40+400

1067 mm RCCP

610 mm CMP

381 mm CMP

305 mm CMP

316 mm CMP

254 mm PVC

203 mm CMP

279 mm CPE

457mm

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CB PROJECT NO 09025-6	PLOT DATE = 2/1/2011	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
IL 111

SCALE: | SHEET NO. OF SHEETS | STA. 29+950 | TO STA. 30+400

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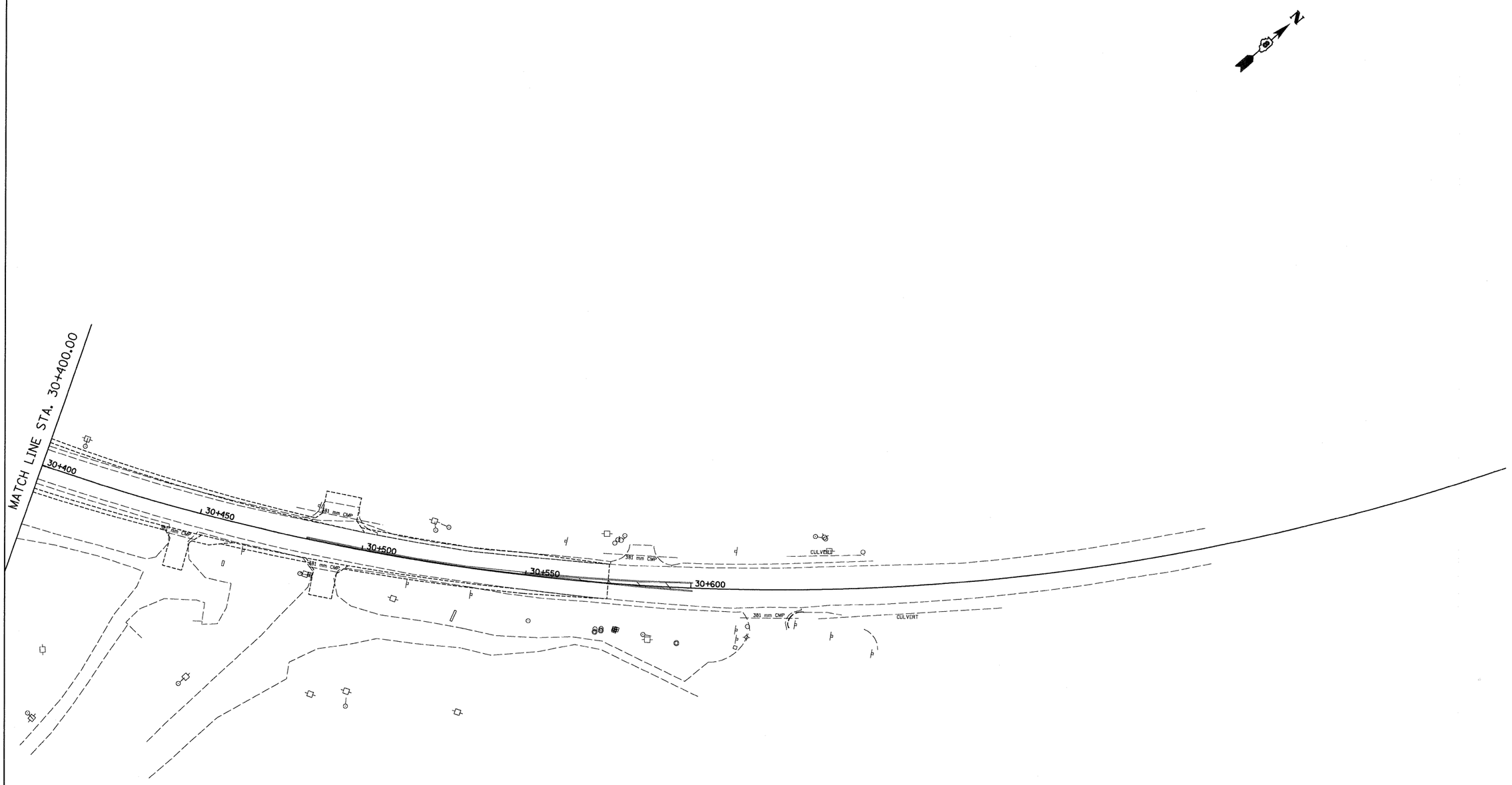
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-155G	MADISON	54	27
		CONTRACT NO. 76E76		
	ILLINOIS FED. AID PROJECT			



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CB PROJECT NO 09025-6	PLOT DATE = 2/1/2011	DATE - / /	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
IL 111

SCALE: | SHEET NO. OF SHEETS | STA. 30+400 | TO STA. 30+600

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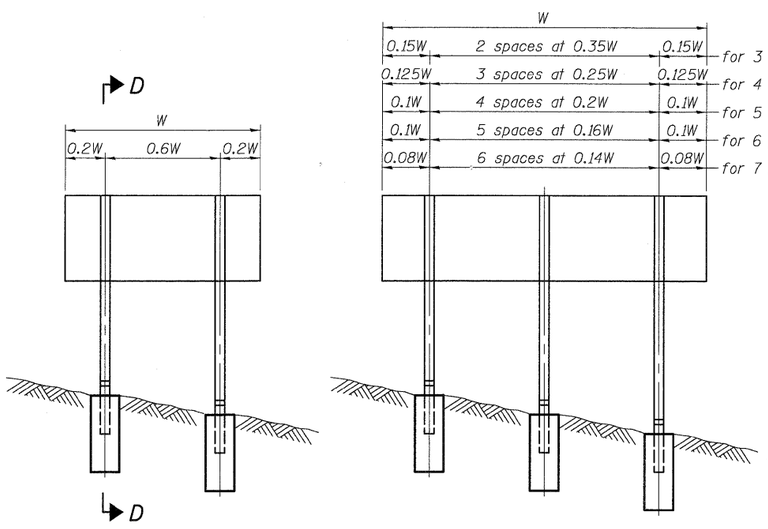
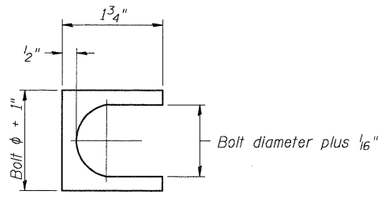
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	28
		CONTRACT NO. 76E76		
	ILLINOIS FED. AID PROJECT			

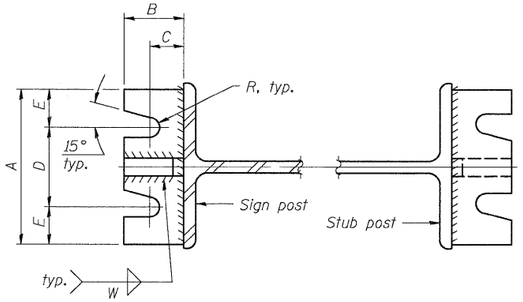


ELEVATION



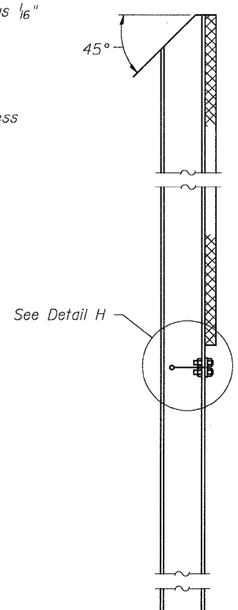
SHIM DETAIL

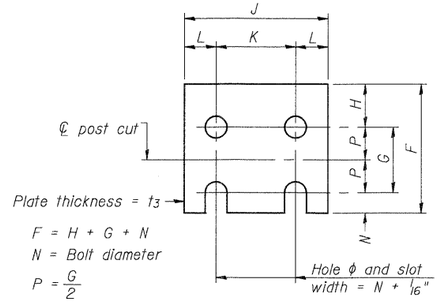
Furnish two 0.01" thick and two 0.03" thick stainless steel or brass (ASTM B36) shims per post.



SECTION A-A

SECTION B-B

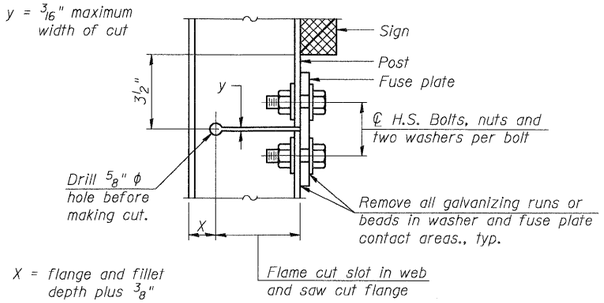




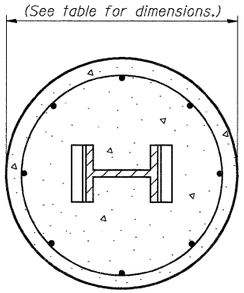
FUSE PLATE DETAIL

(Install with notches down.)

FUSE PLATE DATA		
N = Bolt Diameter	G	H
1/2"	2"	1 1/8"
5/8"	2 1/4"	1 1/4"
3/4"	2 1/2"	1 3/8"
7/8"	2 3/4"	1 1/2"
1"	3"	1 5/8"
1 1/8"	3 1/4"	1 3/4"
1 1/4"	3 1/2"	1 7/8"



DETAIL H



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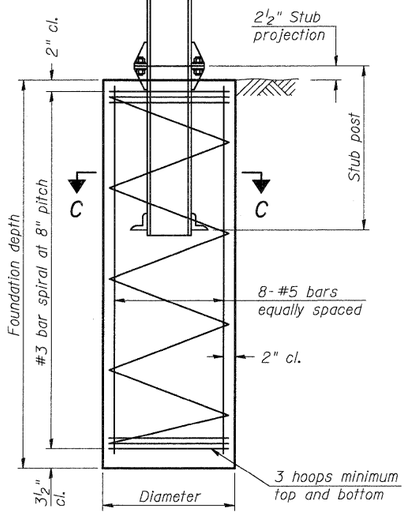

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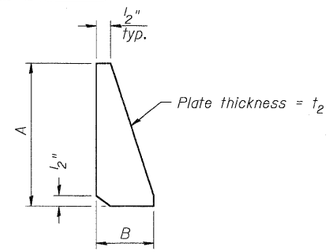
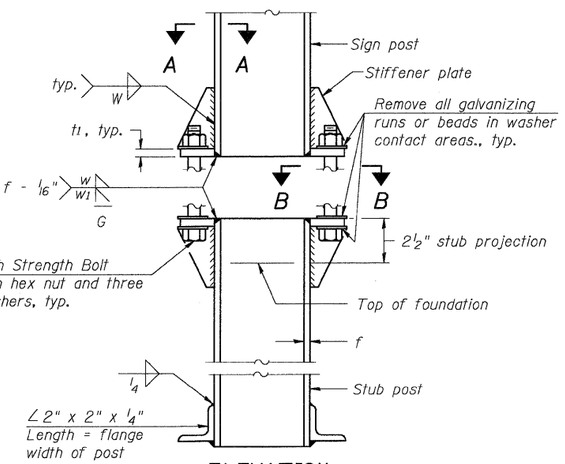


STIFFENER PLATE DETAIL

Diameter



LOCATION SKETCH

ELEVATION
SIGN POST & STUB POST

GENERAL NOTES

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

DESIGN STRESSES:
Structural steel - 20,000 p.s.i.
Reinforcing steel - 20,000 p.s.i.
Concrete - 1,400 p.s.i.
Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2.

BAW-A-1 7-1-10

(Sheet 1 of 2)

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FILE NAME =	USER NAME = _CFC_	DESIGNED -	REVISED -
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CB PROJECT NO. 09025-6	PLOT DATE = 2/1/2011	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BREAK-AWAY WIDE FLANGE STEEL SIGN POST DETAILS

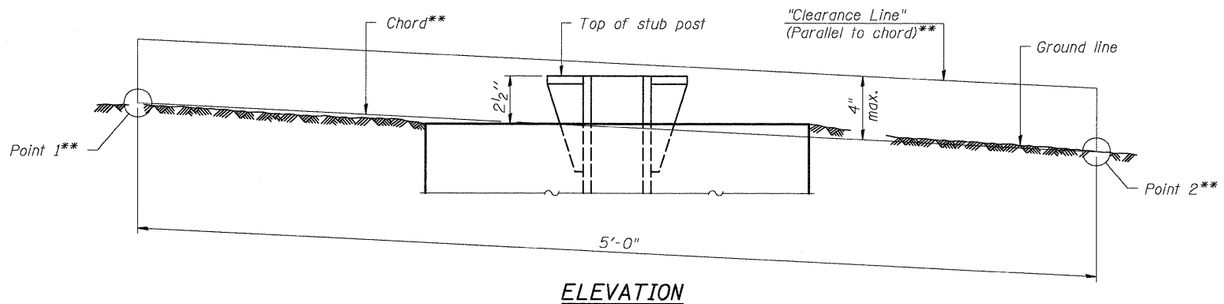
SHEET NO. OF SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	29
		CONTRACT NO. 76E76		
	ILLINOIS FED. AID PROJECT			

POST	CONCRETE FOUNDATION TABLE								POST TO STUB POST CONNECTION DATA										FUSE PLATE DATA			
	Foundation			Reinforcement				Stub Post														
	Diameter	* Minimum Depth	Concrete (1) cu. yds.)	Vertical Bars Length	Bar Spirals Diameter	Bar Spirals Length	lbs. (2)	Length	Bolt Size	A	B	C	D	E	t_1	t_2	R	W	J	K	L	t_3
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-3"	5/8" x 3 1/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	11/32"	1/4"	4"	2 1/4"	7/8"	1/4"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	5/8" x 3 1/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	11/32"	1/4"	6"	3 1/2"	1 1/4"	3/8"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	3/4" x 3 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	13/32"	5/16"	5 1/4"	2 3/4"	1 1/4"	3/8"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2 1/2"	105'-0"	92	3'-0"	3/4" x 3 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	13/32"	5/16"	5 3/4"	2 3/4"	1 1/2"	1/2"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2 1/2"	112'-0"	98	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	15/32"	3/8"	5 3/4"	2 3/4"	1 1/2"	5/8"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2 1/2"	119'-0"	107	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	15/32"	3/8"	6 1/2"	3 1/2"	1 1/2"	5/8"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8 1/2"	145'-0"	113	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	15/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8 1/2"	153'-0"	122	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	17/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8 1/2"	162'-0"	130	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	17/32"	3/8"	7"	3 1/2"	1 3/4"	1/2"

*Dimensional changes required for varying site conditions shall be approved by the Engineer.

POST	FUSE PLATE BOLT SIZE — Sign Height																			
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"
W6x9	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
W6x15	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	—	—	—	—	—	—	—	—	—	—	—	—
W8x18	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	—	—	—	—	—	—	—	—	—	—	—
W10x22	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	—	—	—	—	—	—	—	—
W10x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	—	—	—	—	—	—	—
W12x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	—	—	—	—	—	—
W14x30	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	—	—	—	—
W14x38	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"
W16x45	—	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"



ELEVATION
GROUND LINE & STUB POST

** For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

(1) Quantity includes all concrete necessary for one foundation.

(2) Includes reinforcement bars and spiral hooping for one foundation.

BAW-A-2 7-1-10

(Sheet 2 of 2)

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FILE NAME = ...\break-away-post-tables.dgn	USER NAME = _CFC_	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE = 01.000000 '' / IN.	DRAWN -	REVISED -
CB PROJECT NO. 09025-6	PLOT DATE = 2/1/2011	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BREAK-AWAY WIDE FLANGE
STEEL SIGN POST TABLES
SHEET NO. OF SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	30
		CONTRACT NO. 76E76		
	ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

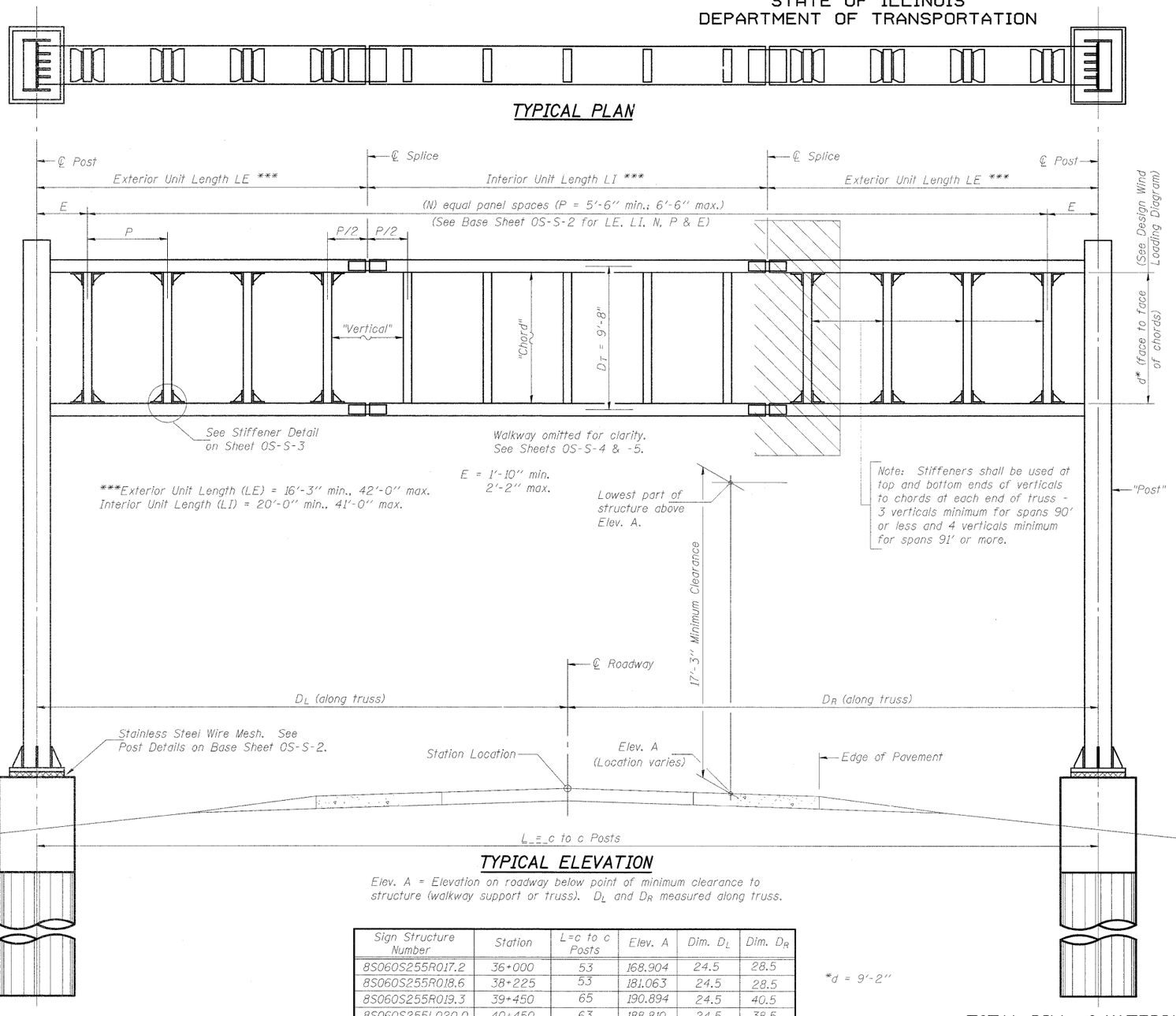
Note 1: Utilize construction specifications current at time contract is advertised. Original design based on 1994 AASHTO Specifications, but modifications shall meet current specifications.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 310	60-15SG	MADISON	54	31
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 1 6 SHEETS

Contract #76E76

TYPICAL PLAN



TYPICAL ELEVATION

Elev. A = Elevation on roadway below point of minimum clearance to structure (walkway support or truss). D_L and D_R measured along truss.

Sign Structure Number	Station	L=c to c Posts	Elev. A	Dim. D_L	Dim. D_R
8S060S255R017.2	36+000	53	168.904	24.5	28.5
8S060S255R018.6	38+225	53	181.063	24.5	28.5
8S060S255R019.3	39+450	65	190.894	24.5	40.5
8S060S255L020.0	40+450	63	188.810	24.5	38.5

*d = 9'-2"

TOTAL BILL of MATERIAL

OVERHEAD SIGN STRUCTURE - SPAN (SPECIAL)	Lin. Ft.	234
OVERHEAD SIGN STRUCTURE WALKWAY - TYPE S	Lin. Ft.	138
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	50

GENERAL NOTES

SPECIFICATIONS:

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals - (Note 1)

CONSTRUCTION: Standard Specifications for Road and Bridge Construction, State of Illinois; Supplemental Specifications for Road and Bridge Construction; Standard Specifications for Traffic Control Items and Special Provisions. (Note 1)

MINIMUM CLEARANCE: Vertical Roadway Clearance = 17'-3" (All Obstructions)

LOADING: 90 M.P.H. WIND VELOCITY .

WIND LOADING: 30 p.s.f. normal to Sign Panel Area as shown below in Wind Loading Diagram plus 41 p.s.f. normal to exposed frame members.

WALKWAY LOADING: Dead Load plus 500# concentrated Live Load.

MATERIALS:

REINFORCEMENT BARS shall conform to the requirements of AASHTO M31 or M53, Grade 60. Reinforcement designated (E) shall be epoxy coated in accordance with Art. 706.10 of the Standard Specifications.

CLASS SI CONCRETE shall be used throughout.

STRUCTURAL STEEL: All material for truss units, post assemblies, angles, gussets and chord splices shall conform to either ASTM A 500 Grade C or AASHTO M 270 Grade 50 or 50W (M-223 Gr. 50 or M-222). For splice shims, sign brackets, walkways, etc., see respective details.

Material identified by a "CVN" in structural details must satisfy heat (H) lot frequency longitudinal Charpy V-Notch (CVN) impact test requirements of 15 ft.-lbs. at 40° F., per AASHTO T-243 and T-244. This shall include: chords; verticals; posts, $\frac{1}{2}$" gusset plates, $\frac{3}{4}$" chord-to-post stiffener plates and bracing angles; and all chord splice material except shims.

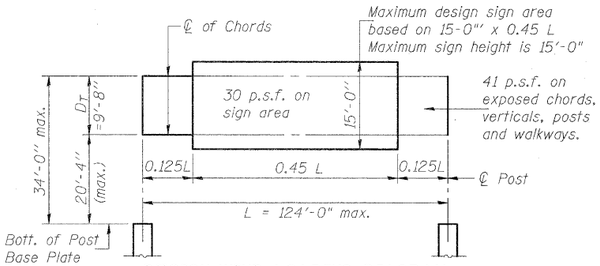
HIGH STRENGTH BOLTS shall conform to the requirements of AASHTO M 164 and shall be galvanized per ASTM B695, Class 50.

PAINTING: The Organic zinc-rich primer/Epoxy/Urethane Paint System shall be used for shop painting of new structural steel, except anchor bolts and stainless steel screen shall not be painted. The color of the final urethane coat shall be "Reddish Brown", Munsell No. 2.5 YR $\frac{3}{4}$. See the Special Provision "Cleaning and Painting New Metal Strutures".

WELDING: All welding shall be in accordance with the Standard Specifications for Road and Bridge Construction. (Note 1)

ANCHOR BOLTS: Shall conform to AASHTO M-314 Gr. 55 with a minimum Charpy V-Notch (CVN) energy of 15 ft.-lbs. at -10° F. (test prior to galvanizing).

CONCRETE SURFACES: Bridge Seat Sealer shall be applied to all concrete surfaces above an elevation 6" below the final ground line in accordance with Art. 587 of the Standard Specifications. (Cost incidental to Drilled Shaft Concrete Foundations.)



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards. Installations not within dimensional limits shown require special analysis for all components, and must be submitted to the I.D.O.T. Bureau of Bridges and Structures for approval. (Note 1)

DESIGNED	-
CHECKED	-
DRAWN	-
CHECKED	-

- 200

EXAMINED

ENGINEER OF BRIDGE DESIGN

PASSED

ENGINEER OF BRIDGES AND STRUCTURES

OS-S-1 SPECIAL 7/01/2006

OVERHEAD SIGN STRUCTURES
GENERAL PLAN AND ELEVATION

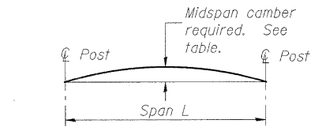
FAP ROUTE 310 (IL 255)
SECTION 60-15SG
MADISON COUNTY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 310	60-15SG	MADISON	54	32
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

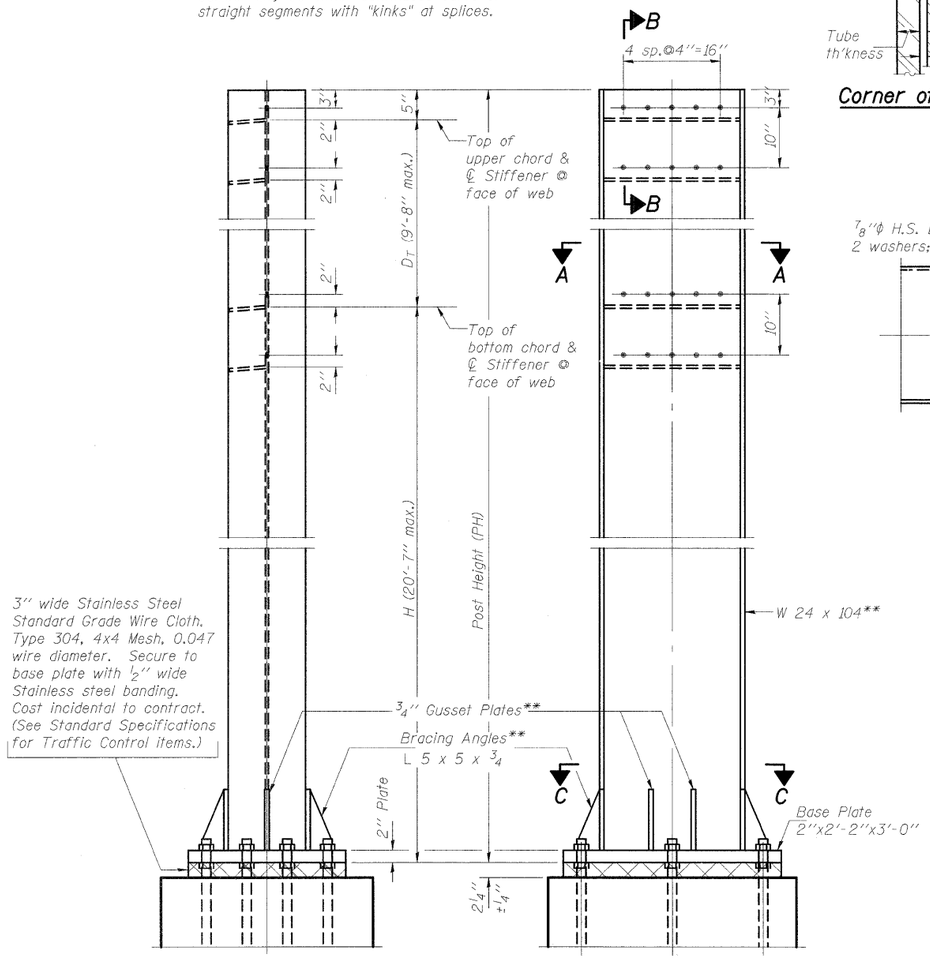
SHEET NO. 2
6 SHEETS

Contract #76E76



CAMBER DIAGRAM

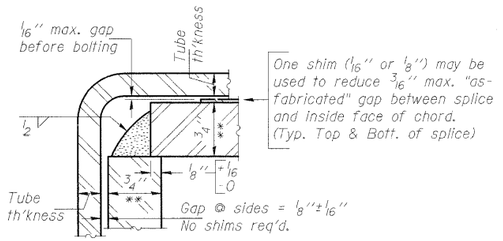
Camber may be either continuous curve or straight segments with "kinks" at splices.



END ELEVATION

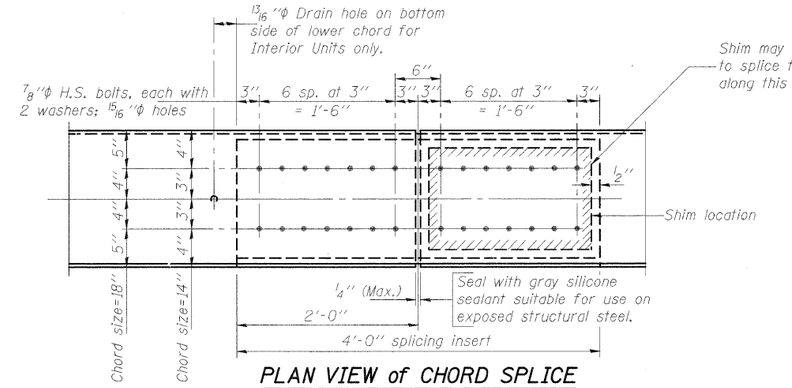
SIDE ELEVATION

POST



Corner of Chord Splice

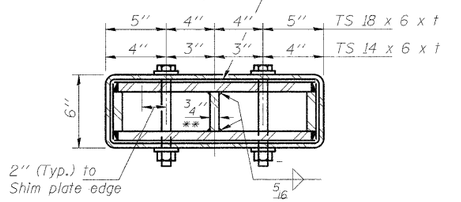
Span L	Camber at Midspan	Chord **	Vertical **	Post **
Up to 50'	2"	TS 14 x 6 x 3/8	TS 10 x 6 x 3/8	W 24 x 104
51' to 70'	4"	TS 14 x 6 x 3/8	TS 10 x 6 x 3/8	W 24 x 104
71' to 80'	4"	TS 14 x 6 x 3/8	TS 10 x 6 x 3/8	W 24 x 104
81' to 90'	6"	TS 18 x 6 x 1/2	TS 14 x 6 x 3/8	W 24 x 104
91' to 100'	6"	TS 18 x 6 x 1/2	TS 14 x 6 x 3/8	W 24 x 104
101' to 110'	6"	TS 18 x 6 x 5/8	TS 14 x 6 x 1/2	W 24 x 104
111' to 124'	6"	TS 18 x 6 x 5/8	TS 14 x 6 x 1/2	W 24 x 104



PLAN VIEW of CHORD SPLICE

Provide 1/16" and 1/8" thick shim plates each side of each joint for 1/16" maximum clearances top & bottom before bolting. 10" x 1'-11" long for TS 14 x 6 and 12" x 1'-11" long for TS 18 x 6.
Shim material: ASTM A606, A607, A570 or similar.

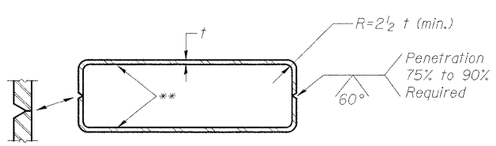
Note: No tack welds allowed on interior of splice assembly.



SECTION THRU SPLICE

Sign Structure Number	Station	Span L	D_T	Camber @ Midspan	Exterior Unit Lgth. (LE)	Interior Unit Lgth. (LI)	No. of Panels (N)	Panel Space (P)	Chord Size	Vertical Size	End Space Dim. E	Left Post Dim. H	PH Left	Right Post Dim. H	PH Right
8S060S255R017.2	36+000	53	9'-8"	4"	26'-6"	X	4	6'-2"	TS14 x 6 x 3/8	TS10 x 6 x 3/8	1'-10"	20'	30'-1"	20'	30'-1"
8S060S255R018.6	38+225	53	9'-8"	4"	26'-6"	X	4	6'-2"	TS14 x 6 x 3/8	TS10 x 6 x 3/8	1'-10"	20'	30'-1"	20'	30'-1"
8S060S255R019.3	39+450	65	9'-8"	4"	32'-6"	X	5	6'-1"	TS14 x 6 x 3/8	TS10 x 6 x 3/8	2'-1"	17'-10"	27'-11"	20'-2"	30'-3"
8S060S255L020.0	40+450	63	9'-8"	4"	29'-7"	X	5	5'-11"	TS14 x 6 x 3/8	TS10 x 6 x 3/8	1'-11"	19'-8 1/2"	29'-9 1/2"	19'-8 1/2"	29'-9 1/2"

** Indicates CVN test req'd. See General Notes on Sheet OS-S-1.



ALTERNATE BUILT-UP TUBE

Width, depth and thickness shall be as indicated for TS members shown in table.

Note: See Sheet OS-S-3 for Sections A-A, B-B and C-C.

DESIGNED -	
CHECKED -	
DRAWN -	
CHECKED -	

200

EXAMINED
ENGINEER OF BRIDGE DESIGN

PASSED
ENGINEER OF BRIDGES AND STRUCTURES

OS-S-2 SPECIAL 7/01/2006

OVERHEAD SIGN STRUCTURES
POST and CHORD DETAILS

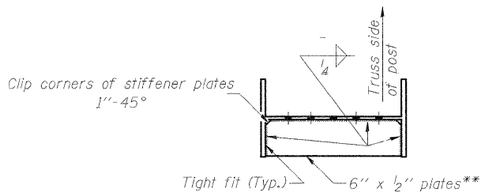
FAP ROUTE 310 (IL 255)
SECTION 60-15SG
MADISON COUNTY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

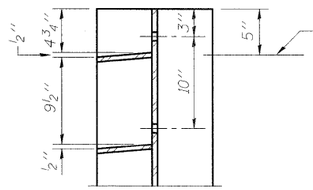
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 310	60-15SG	MADISON	54	33
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 3
6 SHEETS

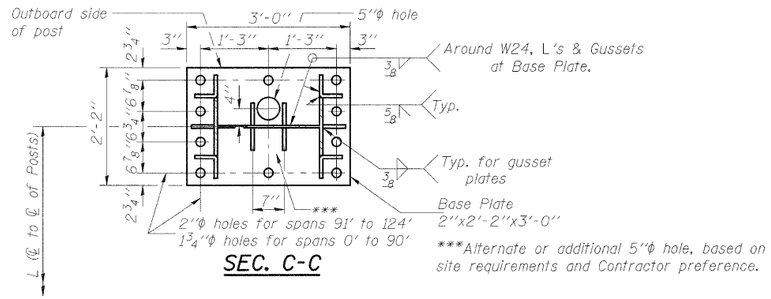
Contract #76E76



SEC. A-A

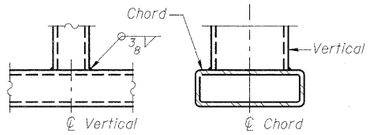


SEC. B-B



SEC. C-C

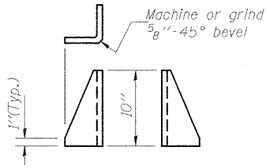
***Alternate or additional 5''ϕ hole, based on site requirements and Contractor preference.



TYPICAL CONNECTION
Chord to Vertical

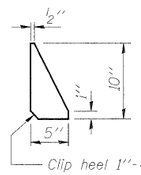
See, also, Sheet OS-S-1

* Weld = 7/16'' for L = 120' to 124'

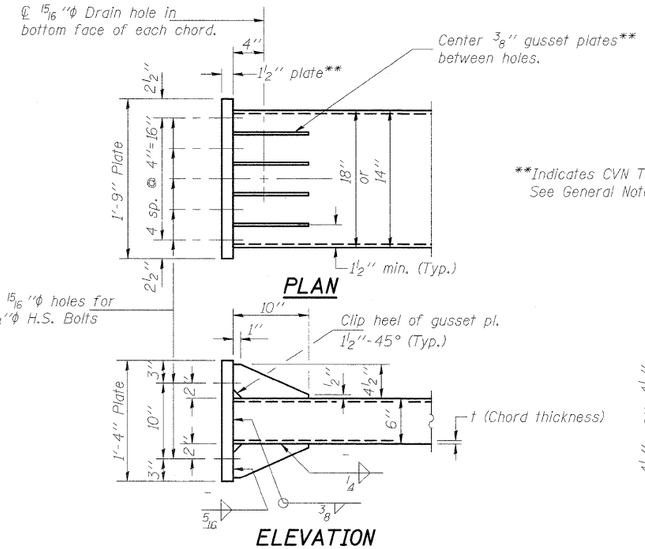


BRACING ANGLES**

L 5 x 5 x 3/4 for W 24x104



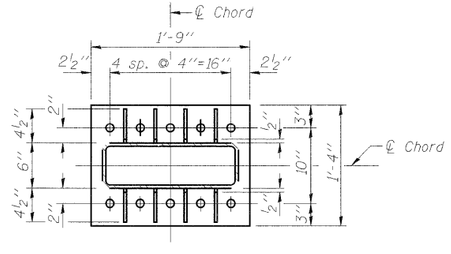
3/4'' Thick Gusset Plate**



PLAN

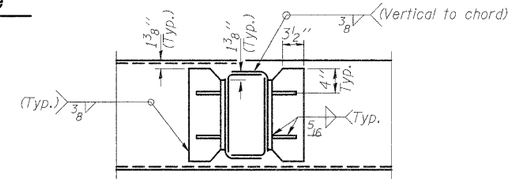
ELEVATION

**Indicates CVN Testing required. See General Notes.

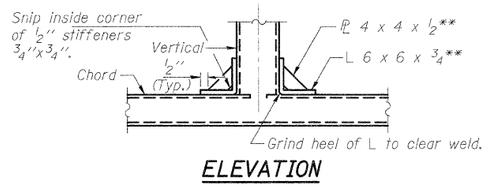


SECTION

CHORD END CONNECTION



PLAN



ELEVATION

STIFFENER DETAIL

DESIGNED -	
CHECKED -	
DRAWN -	
CHECKED -	

- 200

EXAMINED

ENGINEER OF BRIDGE DESIGN

PASSED

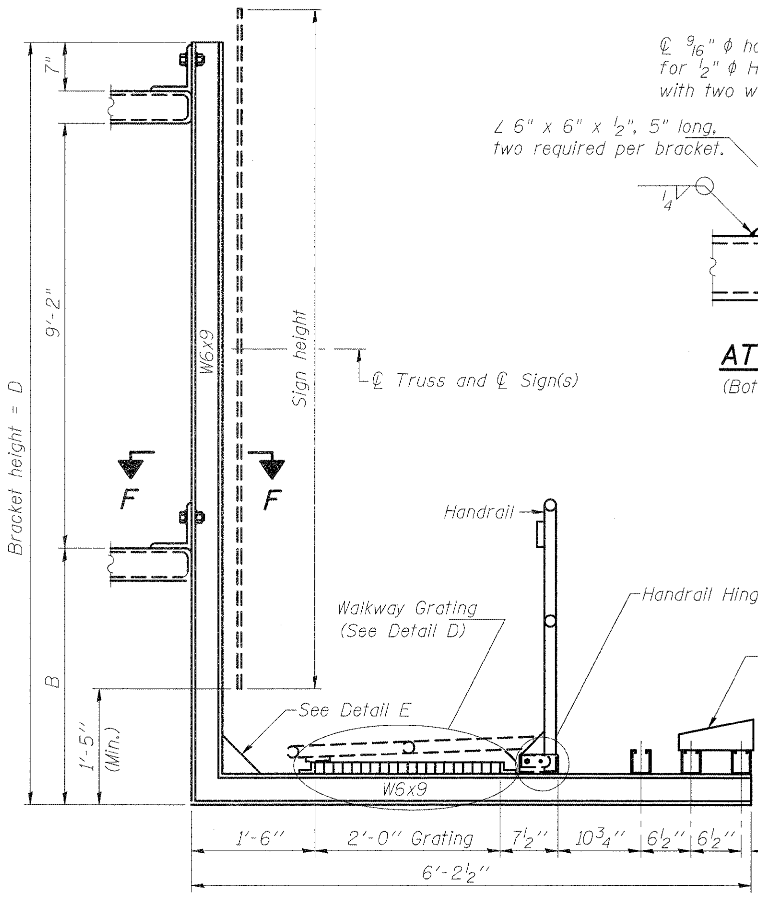
ENGINEER OF BRIDGES AND STRUCTURES

OS-S-3 SPECIAL 7/01/2006

OVERHEAD SIGN STRUCTURES
POST AND CHORD DETAILS

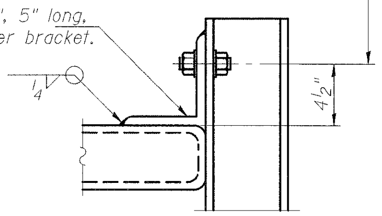
FAP ROUTE 310 (IL 255)
SECTION 60-15SG
MADISON COUNTY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



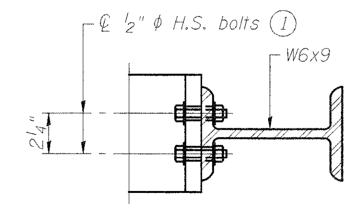
SECTION A-A ②

Sign panel shall be placed symmetrical about ℄ of frame.

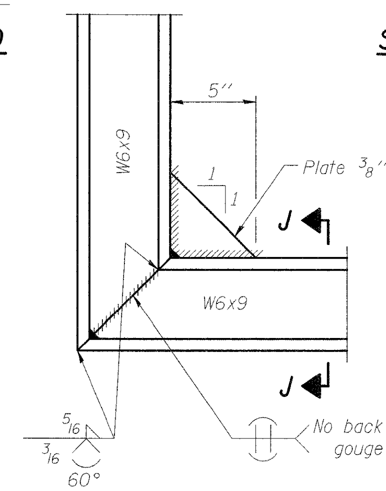


AT TOP CHORD

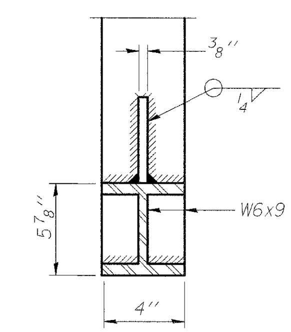
(Bottom chord similar)



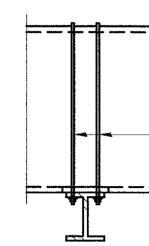
SECTION F-F



DETAIL E



SECTION J-J



SECTION C-C

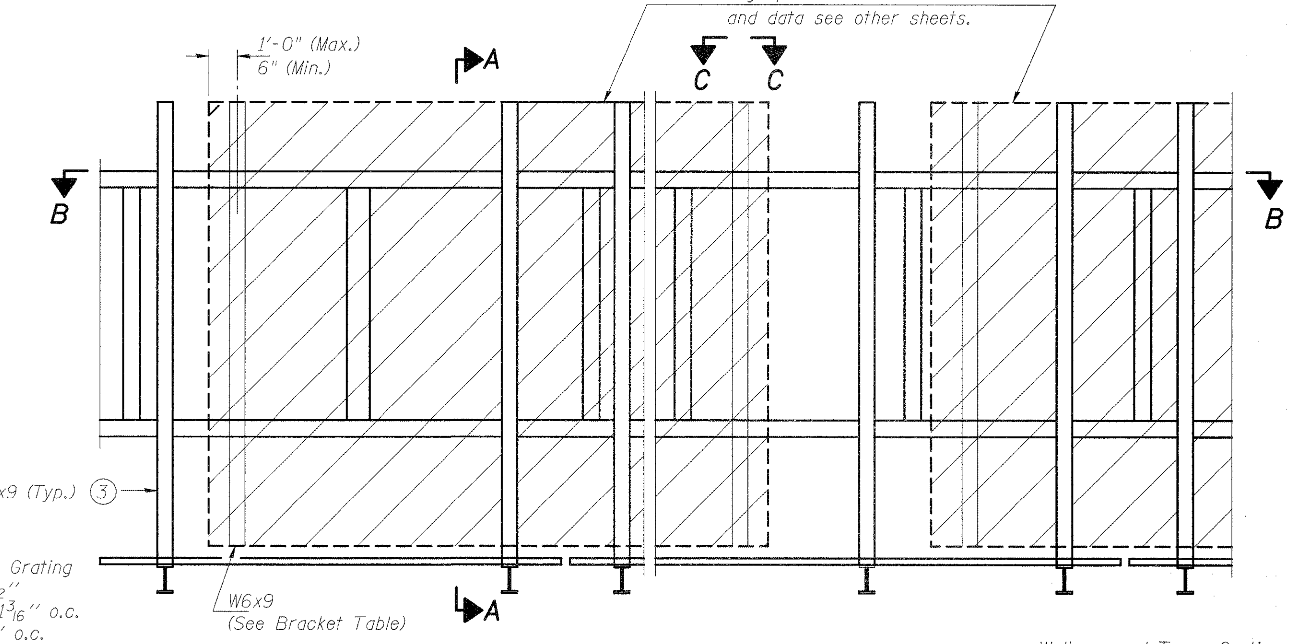
① M164, ASTM A325, or SAE Grade 5 bolts are acceptable alternates.

② Steel shapes for walkway bracket and sign panel supports, including W6x9, ∠1½" x 2" x ¼" and ∠6" x 6" x ½" shall be AASHTO M270 Gr. 36 or Gr. 50, or an equivalent acceptable to the Engineer.

③ End walkway brackets shall be spaced no more than 2'-0" from a truss vertical.

④ U-bolts, nuts and washers shall conform to ASTM A307, hot-dip galvanized per AASHTO M232.

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints.
Place all sign and walkway brackets as close to panel points as practical.
Grating, handrail and light support splices placed as needed.
Walkway grating should extend a minimum of 4'-0" past the edge of pavement into the shoulder unless the shoulder width is less than 10'-0". If shoulder width is less than 10'-0" or if the structure is on a low speed ramp, the walkway grating may begin at edge of pavement.

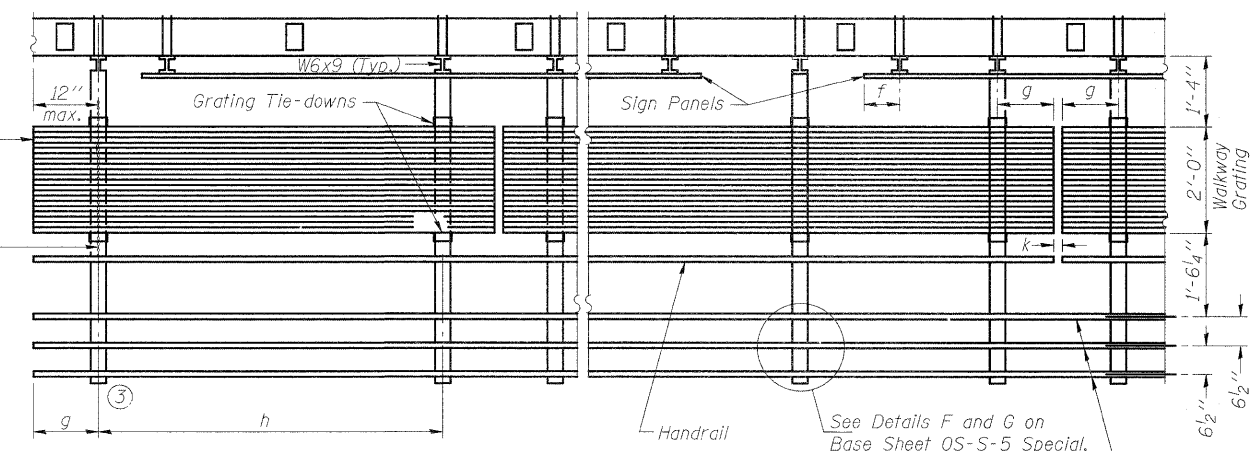


TYPICAL FRONT ELEVATION

(With lights, safety chain and handrail omitted for clarity.)

Walkway and Truss Grating width dimensions are nominal and may vary ±½" based on available standard widths.

Standard Steel Grating
Bars 3/16" x 1½"
Bearing Bars 1 3/16" o.c.
Cross Bars 4" o.c.
Steel shall conform to:
ASTM A-569 with a minimum yield of 30,000 p.s.i.;
or AASHTO M 270 Gr. 36,
M 270 Gr. 50W, or M 270
Gr. 50.



SECTION B-B

Light fixture supports. Length as required for lighting fixtures. (If required.)

f = 1'-0" maximum, 4" minimum (End of sign to ℄ of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway grating to ℄ of nearest support bracket)
h = 6'-0" maximum (℄ to ℄ sign and/or walkway support brackets)
k = 2" maximum gap between adjacent walkway grating sections and handrail ends

Sign Structure Number	Station	B	D
8S060S255R017.2	36+000	4'-4"	14'-7"
8S060S255R018.6	38+225	4'-4"	14'-7"
8S060S255R019.3	39+450	4'-4"	14'-7"
8S060S255L020.0	40+450	4'-4"	14'-7"

BRACKET TABLE

W6x9
ASTM B308, Alloy 6061-T6

Sign Width: Greater Than	Sign Width: Less Than or Equal To	Number Brackets Required
	10'-0"	2
10'-0"	16'-0"	3
16'-0"	22'-0"	4
22'-0"	28'-0"	5
28'-0"	34'-0"	6

DESIGNED	-
CHECKED	-
DRAWN	-
CHECKED	-

- 200
EXAMINED
ENGINEER OF BRIDGE DESIGN
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

OVERHEAD SIGN STRUCTURES
STEEL WALKWAY DETAILS

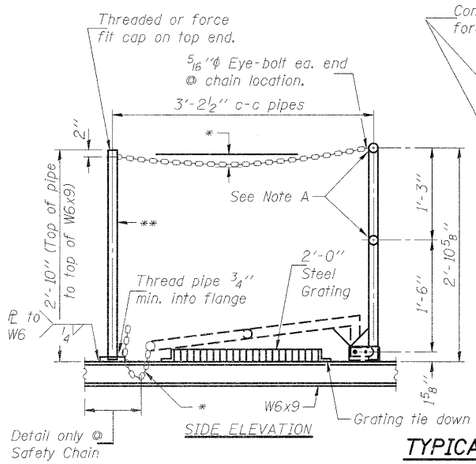
FAP ROUTE 310 (IL 255)
SECTION 60-15SG
MADISON COUNTY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

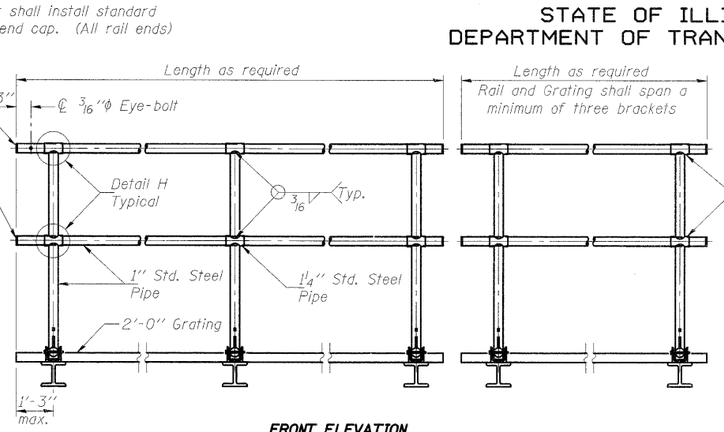
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 310	60-15SG	MADISON	54	35
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 5
6 SHEETS

Contract #76E76



SIDE ELEVATION



FRONT ELEVATION

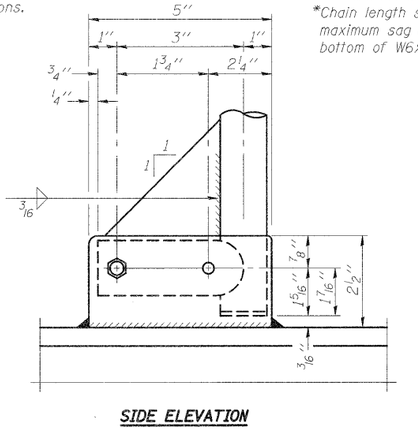
TYPICAL HANDRAIL DETAIL

*Chain length shall allow erection of handrail with maximum sag of 3" and shall not extend below bottom of W6x9 with railing lowered.

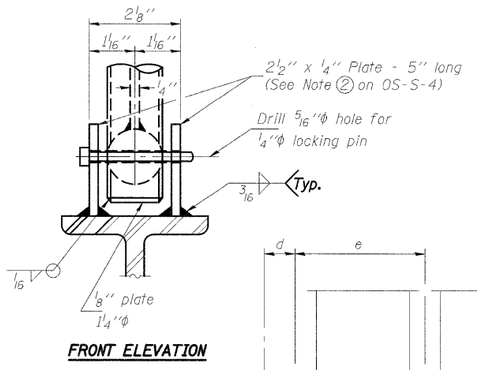
**1" ϕ Std. galvanized steel pipe at brackets nearest ends of walkway to hold safety chain. Bottom end threaded 3/4" minimum into flange. Cap or weld plate on top of pipe.

Note A:
Horizontal rail member shall be continuous thru fitting. Provide 7/16"ϕ hole in fitting for 3/8"ϕ hot-dip galvanized bolt. Field drill 7/16"ϕ hole in horizontal rail member. Provide washer and locknut for bolt.

Note: Handrail Pipe shall be ASTM A-120 or A53.

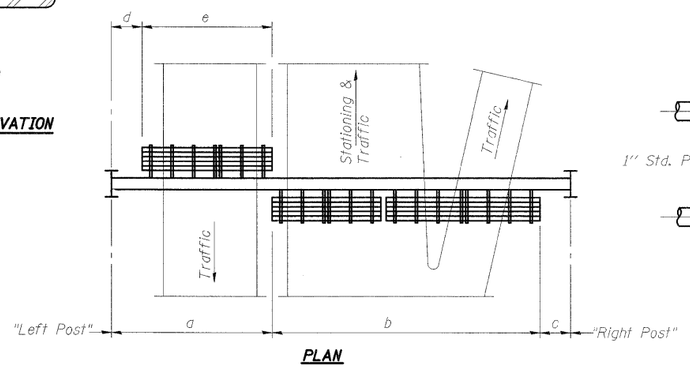


SIDE ELEVATION



FRONT ELEVATION

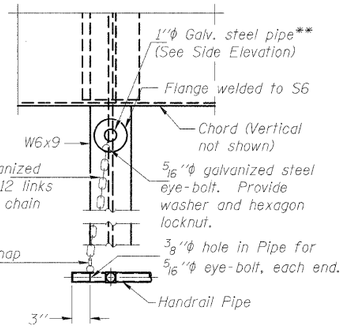
PLAN
DETAIL HANDRAIL HINGE



PLAN

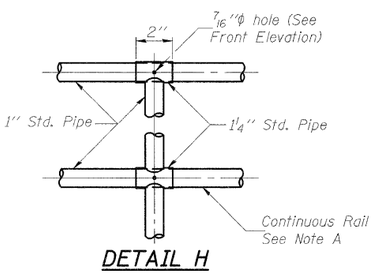
WALKWAY AND HANDRAIL SKETCH

(Road plan shown beneath truss varies.)

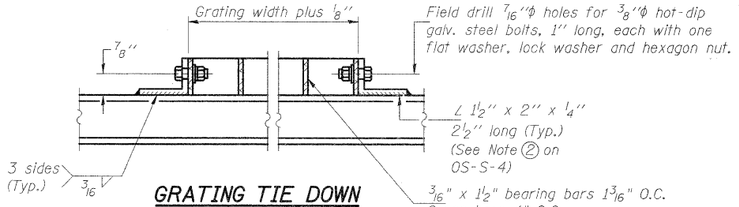


SAFETY CHAIN

One (1) required for each end of each walkway.

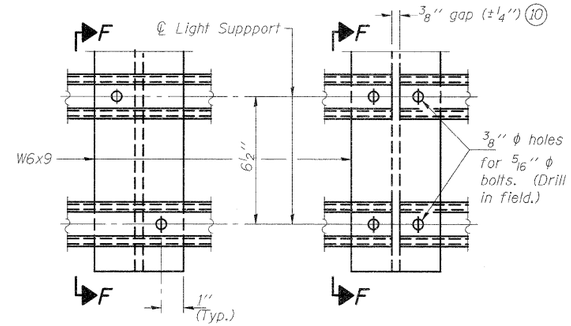


DETAIL H



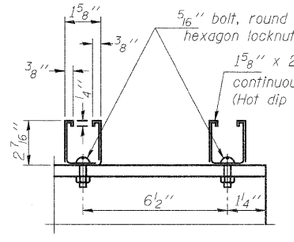
GRATING TIE DOWN

2 Req'd per Walkway Bracket

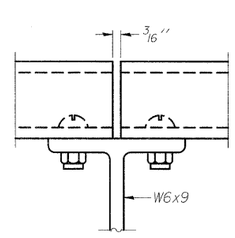


DETAIL F

DETAIL G



SECTION F-F



SECTION G-G

LIGHTING FIXTURE MOUNTS (IF REQUIRED)

Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.

All bolts, nuts and washers shall conform to ASTM A307, hot-dip galvanized per AASHTO M232.

Sign Structure Number	Station	a	b	c	d	e	Grating and Handrail Lengths
8S060S255R017.2	36+000	12.5'	28'	12.5'	X	X	28'
8S060S255R018.6	38+225	12.5'	28'	12.5'	X	X	28'
8S060S255R019.3	39+450	12.5'	40'	12.5'	X	X	40'
8S060S255L020.0	40+450	X	X	10.5'	12.5'	42'	42'

DESIGNED -	
CHECKED -	
DRAWN -	
CHECKED -	

- 200

EXAMINED

ENGINEER OF BRIDGE DESIGN

PASSED

ENGINEER OF BRIDGES AND STRUCTURES

OS-S-5 SPECIAL 7/01/2006

OVERHEAD SIGN STRUCTURES
STEEL WALKWAY DETAILS

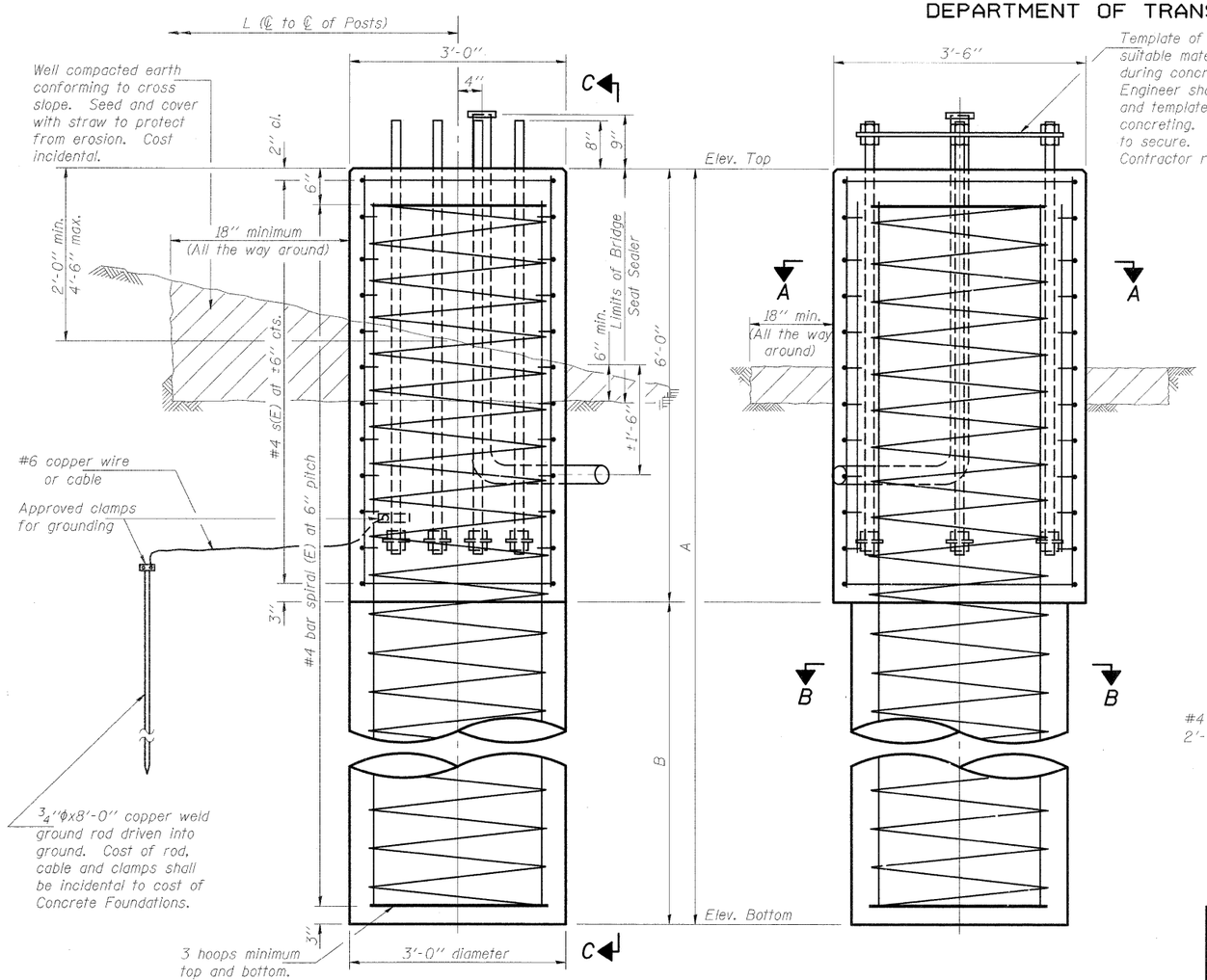
FAP ROUTE 310 (IL 255)
SECTION 60-15SG
MADISON COUNTY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 310	60-15SG	MADISON	54	36
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

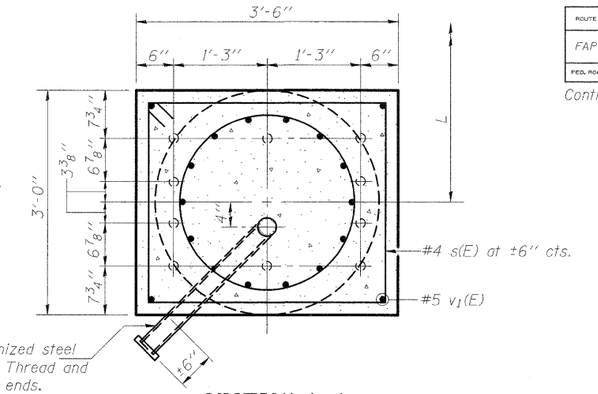
SHEET NO. 6
6 SHEETS

Contract #76E76



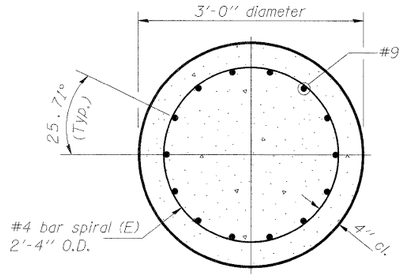
ELEVATION
(Looking parallel to ℄ Roadway)

VIEW C-C
(Looking toward Roadway)

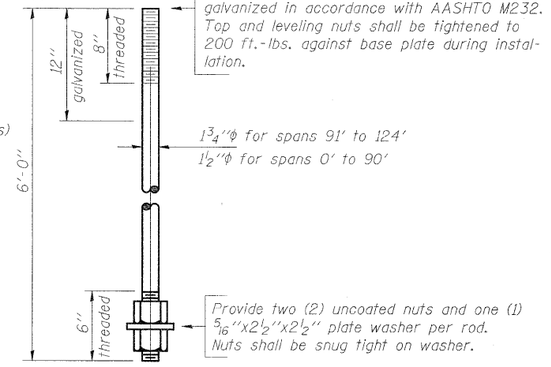


SECTION A-A

NOTE: The anchor bolts and reinforcing cage must be in place before pouring concrete, and shall be maintained in proper position during concreting. Concrete placement shall be continuous with no construction joints permitted.



SECTION B-B

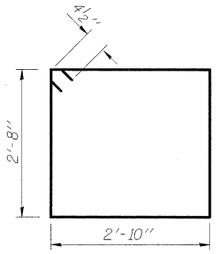


ANCHOR BOLT DETAILS

AASHTO M314 Grade 55. Minimum Charpy V-notch energy requirement of 15 ft.-lbs. at +10° F. before galvanizing. No welding is permitted on rods. Galvanize upper 12" in accordance with AASHTO M232.

BAR LIST-EACH FOUNDATION

Bar	No.	Size	Length.	Shape
s(E)	12	#4	11'-9"	□
v(E)	14	#9	B+(5'-7")	——
v1(E)	4	#5	5'-3"	——
#4 bar spiral (E)-see Elevation				



BAR s (E)

DEPTH TABLE

Span	B (min.)
70'	15'
80'	15'
90'	16'
100'	17'
110'	18'
124'	20'

Sign Structure Number	Station	B	Anchor Bolt Size	Left Foundation Elev. Top	Left Foundation Elev. Btm.	Left Foundation A	Right Foundation Elev. Top	Right Foundation Elev. Btm.	Right Foundation A	Class SI Concrete
8S060S255R017.2	36+000	15 '	1½"	169.564	163.163	21'	169.564	163.163	21'	12.5'
8S060S255R018.6	38+225	15 '	1½"	181.571	175.170	21'	181.571	175.170	21'	12.5'
8S060S255R019.3	39+450	15 '	1½"	191.862	185.461	21'	191.150	185.749	21'	12.5'
8S060S255L020.0	40+450	15 '	1½"	189.000	182.599	21'	189.000	182.599	21'	12.5'

NOTES:
The foundation details shown are for Average Cohesive Soil Conditions (stiff clays, sandy clays) and with minimum Qu=1.0 Tons/Sq. Ft., with "Qu" being the average value at various depths of the shaft as determined by previous soil borings.

Cost of excavation, reinforcement, anchor bolts, conduit, concrete, Bridge Seat Sealer and associated work is incidental to "Drilled Shaft Concrete Foundations".

OVERHEAD SIGN STRUCTURES
FOUNDATION DETAILS

FAP ROUTE 310 (IL 255)
SECTION 60-15SG
MADISON COUNTY

DESIGNED	-
CHECKED	-
DRAWN	-
CHECKED	-

- 200

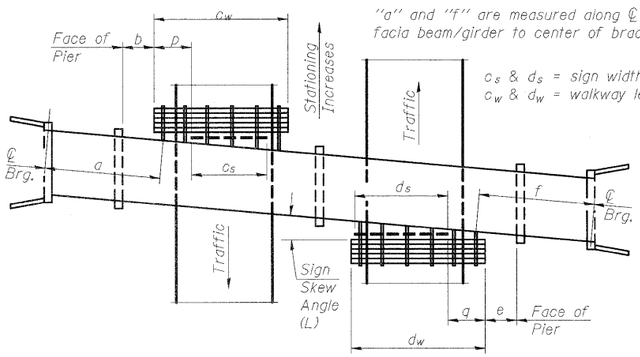
EXAMINED

ENGINEER OF BRIDGE DESIGN

PASSED

ENGINEER OF BRIDGES AND STRUCTURES

OS-S-6 SPECIAL 7/01/2006

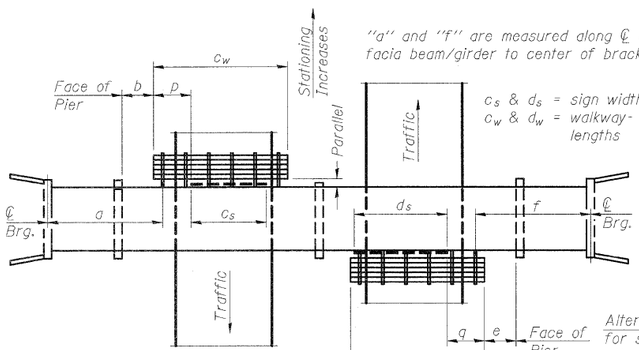


PLAN

(Left Sign Skew > 15°)

WALKWAY AND HANDRAIL SKETCH

(Road plan beneath structure varies.)

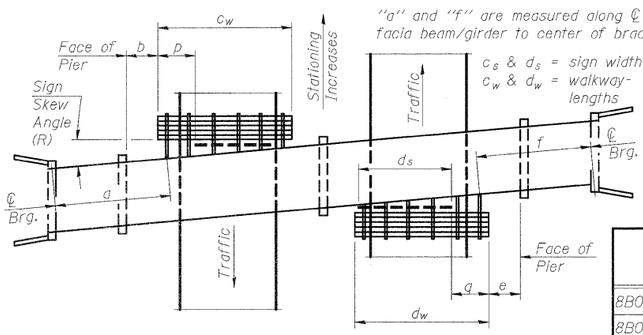


PLAN

(For Sign Skew ≤ 15°, all brackets constant)

WALKWAY AND HANDRAIL SKETCH

(Road plan beneath structure varies.)

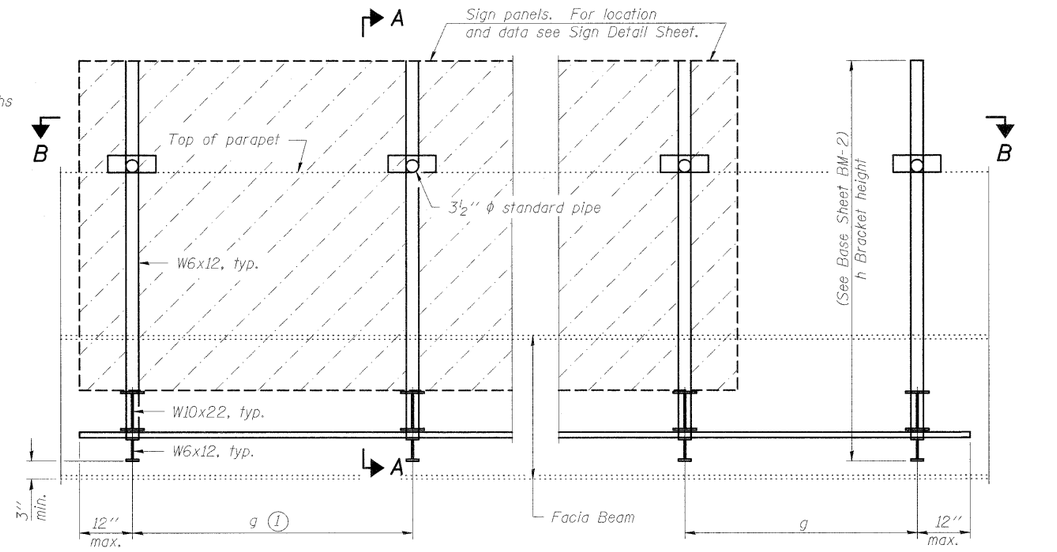


PLAN

(Right Sign Skew > 15°)

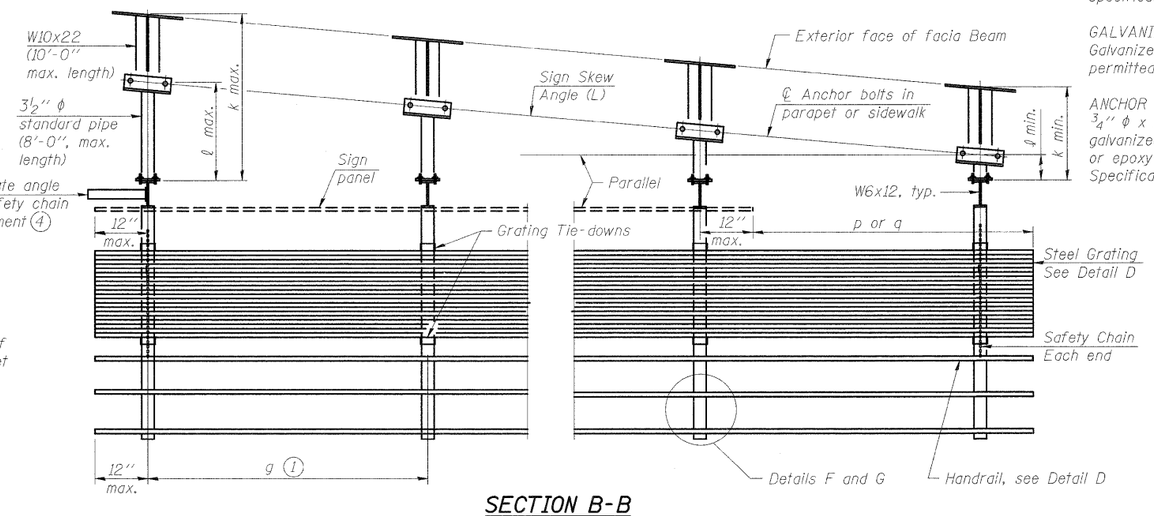
WALKWAY AND HANDRAIL SKETCH

(Road plan beneath structure varies.)



TYPICAL FRONT ELEVATION

(With lights, safety chain and handrail omitted for clarity.)



SECTION B-B

(Shown: Left Sign Skew > 15°)

Structure Number	Sign Skew Angle (L) or (R)	Bridge Station	Bridge Structure Number	Contract Route Designation	a	b	c_s	c_w	d_s	d_w	e	f	g	No. of Brackets (Total)	p	q	Total Grating/ Hndrl. Lengths (c_w + d_w)
8B060S255L0189	7°34'17"	38+829.9	060-0308	IL 255	77'-8"	X	13	14	X	X	X	X	4	4	6"	X	14
8B060S255R0189	7°34'17"	38+829.9	060-0309	IL 255	X	X	X	X	13	14	X	69'-2"	4	4	X	6"	14
8B060S255L0196	7°34'17"	39+914.6	060-0330	IL 255	61'-5"	X	13	14	X	X	X	X	4	4	6"	X	14
8B060S255R0189	7°34'17"	39+914.6	060-0331	IL 255	X	X	X	X	13	14	X	61'-5"	4	4	X	6"	14
8B060S255L0163	5°00'00"	34+773.8	060-0304	IL 255	51'-2"	X	13	14	X	X	X	X	4	4	6"	X	14

Dimensions a, b, e, f & g may vary as approved by the Engineer, see (1).
When c_w < c_s and/or d_w < d_s, use alternate brackets without walkway supports where applicable, see (3).

GENERAL NOTES

SPECIFICATIONS:

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications") (2)

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

MINIMUM CLEARANCE: 3" greater than bridge members at all locations. (All Obstructions)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 Structural Welding Code (Steel) and the Standard Specificiations.

MATERIALS: All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.
All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 (M183, M223 Gr. 50.).

HIGH STRENGTH BOLTS: All bolts, washers, nuts and locknuts shall satisfy the requirements of ASTM designation A307 unless noted as "H.S." which shall require AASHTO M164 (A325), ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise specified.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: All-threaded rod shall conform to ASTM F1554 Grade 105, $\frac{3}{4}$" ϕ x 12" long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 9".

(1) Bracket spacing g ≤ 6'-0", max. Spacing shall be uniform if possible but may vary ±6" to miss existing obstruction (rail post, light poles, web stiffeners, splice plates, etc.). Adjust bracket lengths accordingly on skewed structures.

(2) Any design modifications shall be based on the current version of applicable specifications and submitted for the Engineer's approval.

(3) Unit price includes grating, handrail, brackets, supports, anchor bolts, fasteners, fabrication, delivery, erection, field drilling and other necessary items. Limits of payment are based on grating length (cw, dw) unless otherwise specified. For Safety Chain Details and Details D, F and G, see Base Sheet BM-4.

(4) If walkway bracket at safety chain location is behind sign, add angle to bracket. See detail on Base Sheet BM-4.

TOTAL BILL OF MATERIAL

(3) OVERHEAD SIGN STRUCTURE-BRIDGE MOUNTED	Foot	70'

BM-1

1-20-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - ___	REVISED - ___
		DRAWN - ___	REVISED - ___
	PLOT SCALE = $SCALE$	CHECKED - ___	REVISED - ___
	PLOT DATE = $DATE$	DATE - _____	REVISED - ___

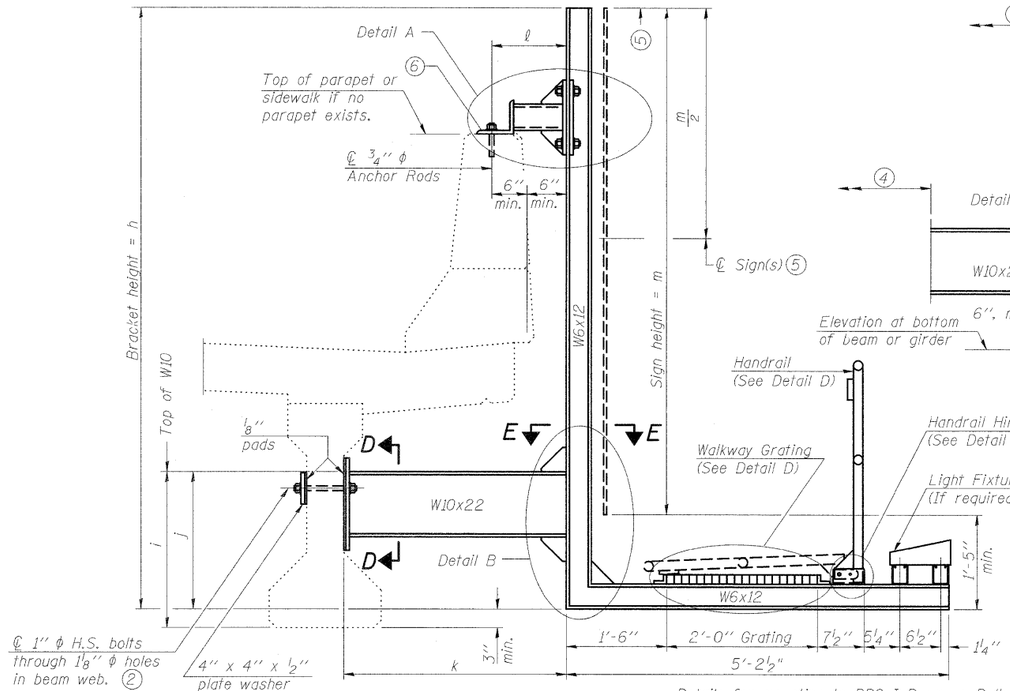
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE MOUNT SIGN STRUCTURES
GENERAL PLAN AND ELEVATION

SCALE: _____ | SHEET NO. __ OF ___ SHEETS | STA. _____ TO STA. _____

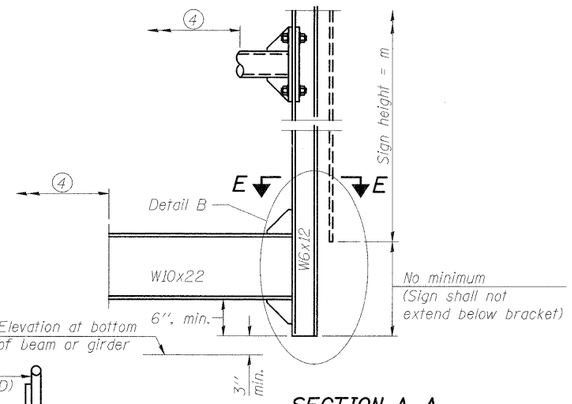
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	37
		CONTRACT NO. 76E76		

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



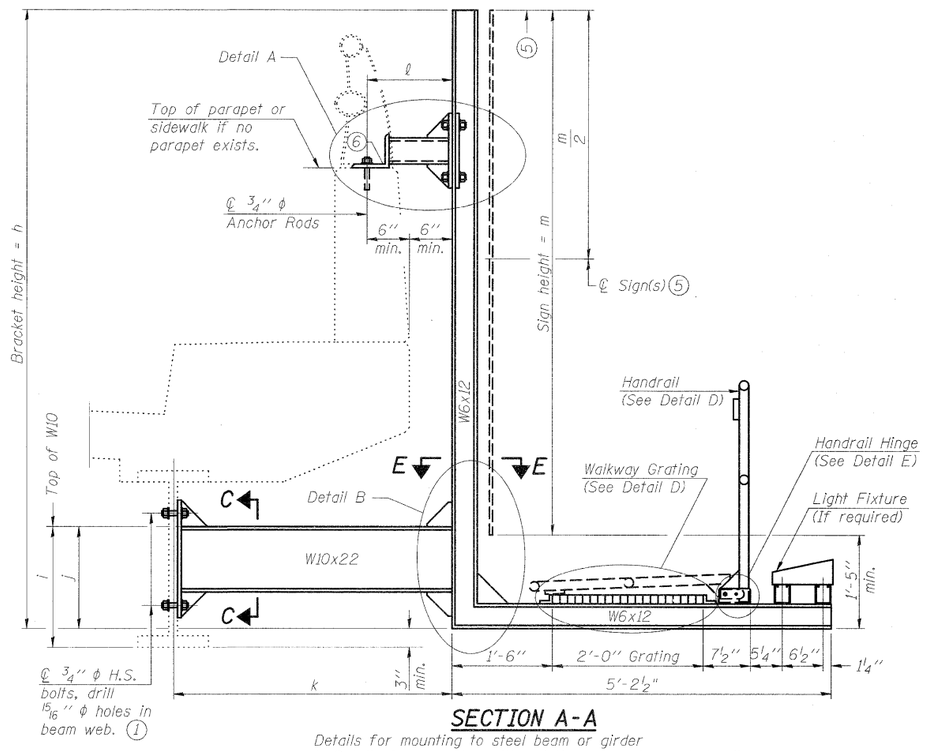
SECTION A-A

Details for mounting to PPC I Beam or Bulb "T" & Details for mounting to parapet w/o rail



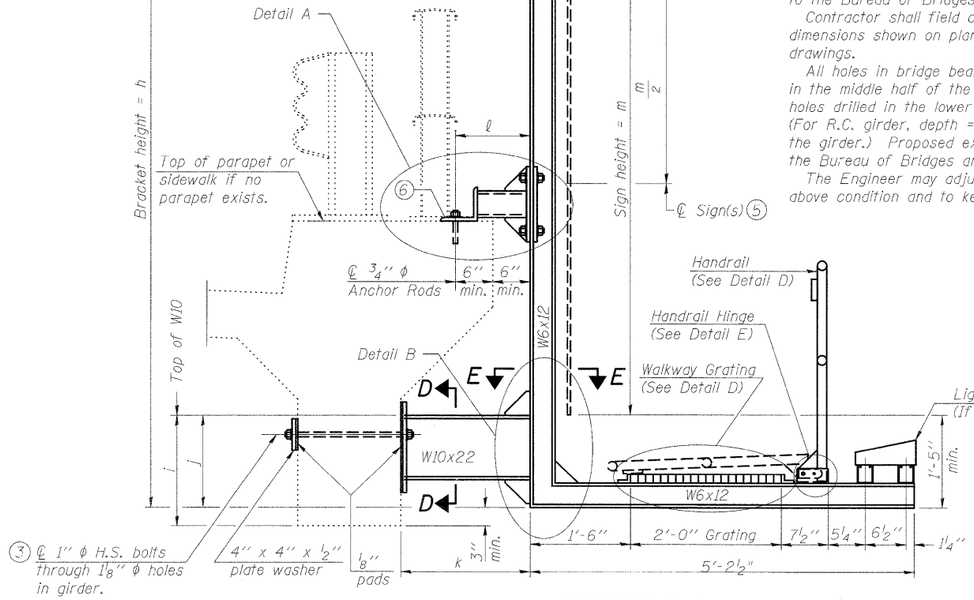
SECTION A-A

Alternate with no lights or walkways



SECTION A-A

Details for mounting to steel beam or girder & Details for mounting with existing parapet mounted rail



SECTION A-A

Details for mounting to integral reinforced concrete girder & Details for mounting on safety curb with surface-mount bridge rail

Notes:

Installations not within dimensional limits shown require special analysis for all components and must be submitted to the Bureau of Bridges and Structures for approval.

Contractor shall field check all pertinent existing bridge dimensions shown on plans before submitting shop drawings.

All holes in bridge beams or girders should be located in the middle half of the member. There shall be no holes drilled in the lower quarter of the member's depth. (For R.C. girder, depth = bottom of deck to bottom of the girder.) Proposed exceptions must be approved by the Bureau of Bridges and Structures.

The Engineer may adjust dimension "i" to meet the above condition and to keep the sign level.

(1) Holes in new steel members may be drilled in the fabrication shop or in the field. Field drill existing members.

(2) For new PPC I beams, holes shall be formed during casting. For existing PPC I beams, prestressing strand locations shall be determined and spaced to miss strands by 6", min. Minimize spalling during field drilling of existing beams.

(3) For new construction, form holes. For existing RC beams, locate primary reinforcement and space holes to miss by 6", min. Minimize spalling and concrete fracturing/damage during field drilling of existing concrete. Spalls over ¼" deep or beyond the coverage of the 4x4 plate washer shall be repaired with epoxy mortar before installing washer.

(4) For attachment details of 3½" pipe and W10x22, see other sections as applicable.

(5) Sign shall not extend more than 6" above top of bracket, and this dimension may vary to keep sign level if bridge is on grade or vertical curve. Multiple signs of various heights shall share a common horizontal centerline and use equal bracket heights. If no sign is attached to a W6x12 vertical (bracket only supporting walkway), dimension h shall be the same as an adjacent bracket with a sign attached, unless Engineer specifically directs shorter brackets due to locational restraints on future uses. (See Detail A for minimum bracket height.)

(6) For bridge mounted sign structures installed on new bridges with railing, during design, bracket spacing must be coordinated with railing post spacing and the Contractor must install upper brackets prior to railing installation. For bridge mounted sign structures installed on existing bridges with railing, during design, brackets spacing must be coordinated with railing post spacing and the Contractor must temporarily remove sections of railing to facilitate upper bracket installation. If it is determined during design that existing railings can't be removed, alternate upper connection details must be developed for the contract plans and approved by the Bureau of Bridges and Structures.

For Details A & B, Sections C-C, D-D and E-E, see Base Sheet BM-3.
For Details D & E, see Base Sheet BM-4.

060-0308
060-0309
060-0330
060-0331
060-0304

Structure Number	Station	h	i	j	k max. (10'-0" max.)	ℓ max. (8'-0" max.)	m (15'-0" max.)
8B060S255L0189	38+829.9	16'-5"	3'-8"	3'-5"	4'-0"	1'-0"	15'-0"
8B060S255R0189	38+829.9	16'-5"	3'-8"	3'-5"	4'-0"	1'-0"	15'-0"
8B060S255L0196	39+914.6	16'-5"	3'-4½"	3'-1½""	4'-0"	1'-0"	15'-0"
8B060S255R0196	39+914.6	16'-5"	3'-4½"	3'-1½""	4'-0"	1'-0"	15'-0"
8B060S255L0163	34+776.8	16'-5"	2' 8½"	2'-5½""	4'-0"	1'-0"	15'-0"

BM-2 1-20-11

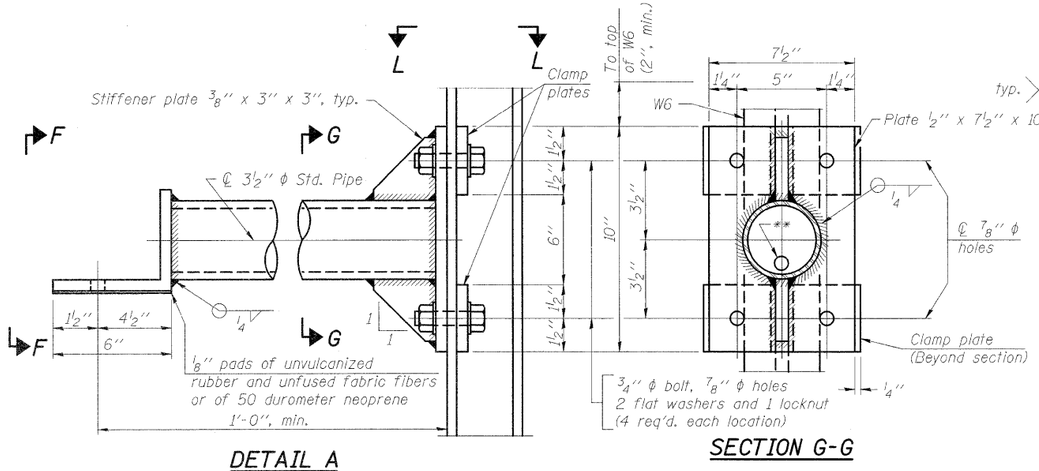
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - ___	REVISED - ___
		DRAWN - ___	REVISED - ___
	PLOT SCALE = $SCALE$	CHECKED - ___	REVISED - ___
	PLOT DATE = $DATE$	DATE - _____	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE MOUNT SIGN STRUCTURES
WALKWAY AND CONNECTION DETAILS

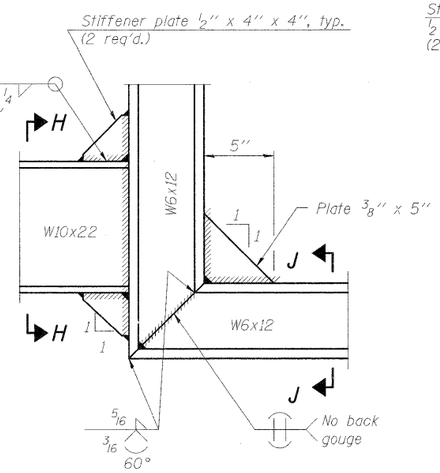
SCALE: _____ SHEET NO. __ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	38
		CONTRACT NO. 76676		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

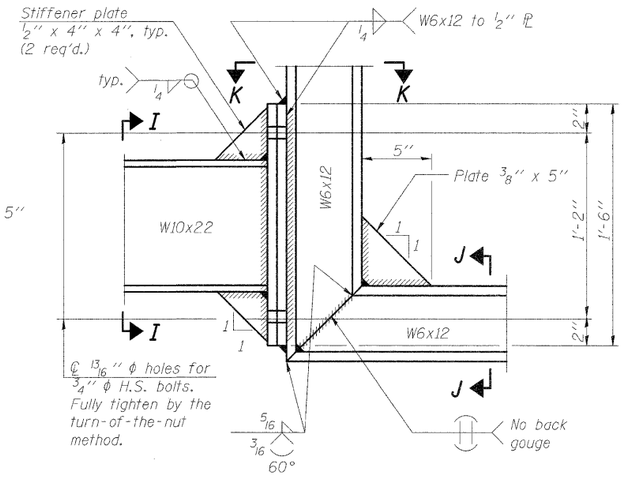


DETAIL A

SECTION G-G

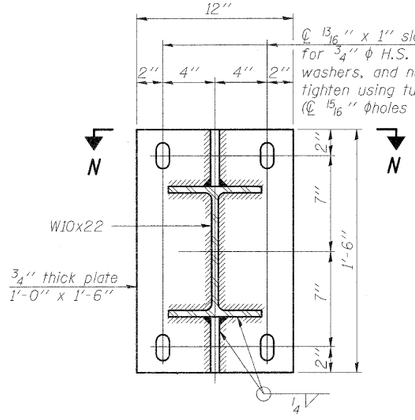


DETAIL B - WELDED W10x22 TO W6x12 CONNECTION



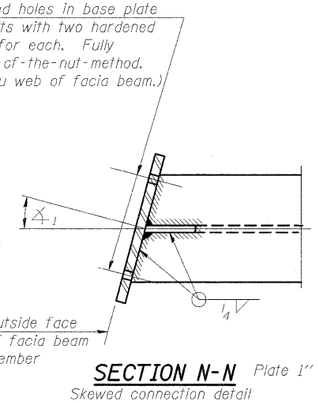
DETAIL B - ALTERNATE BOLTED W10x22 TO W6x12 CONNECTION

Alternate may be substituted by contractor to facilitate construction or galvanizing, especially on long struts for skewed bridges.



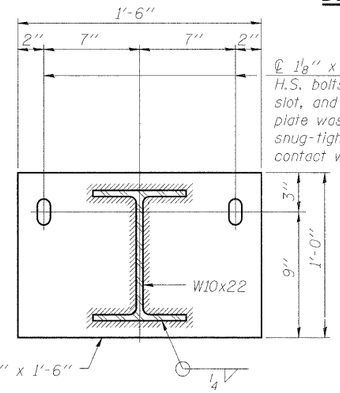
SECTION C-C

Steel beam or girder connection plate details



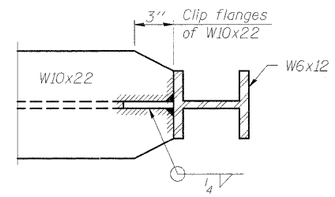
SECTION N-N

Skewed connection detail for W10x22 to facia beam.

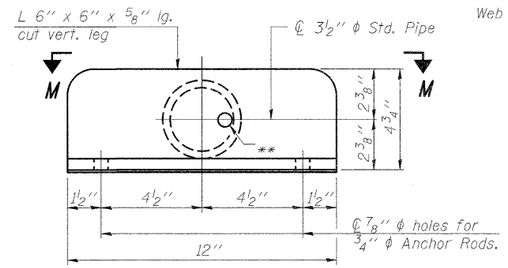


SECTION D-D

Concrete beam or girder connection plate details.

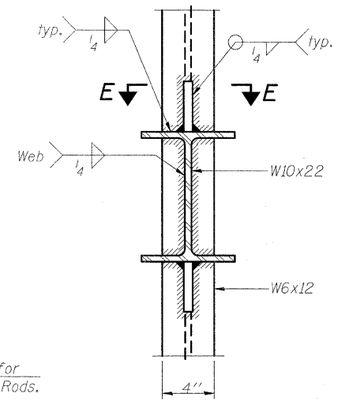


SECTION E-E

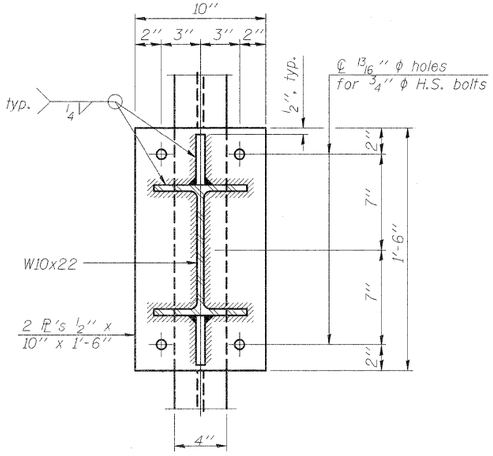


VIEW F-F

** 13/16" ϕ holes for galvanizing. After galvanizing, install 7/8" ϕ A307 hot-dip galvanized bolt to close hole in angle. (No bolt required in ½" plate.)

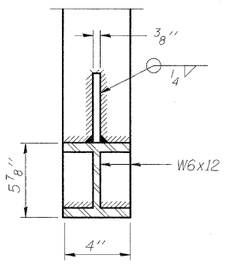


SECTION H-H

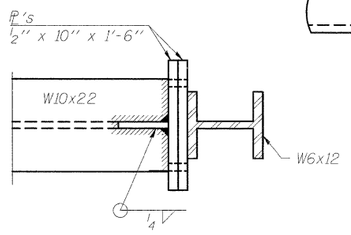


SECTION I-I

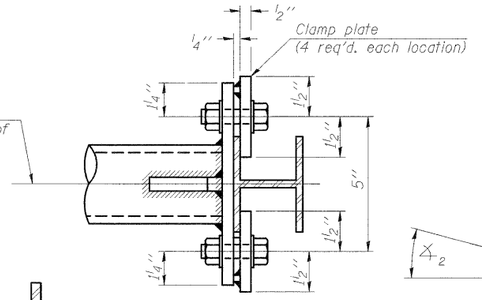
Note: For constant slab overhang at facia beam, ∠1 = ∠2 = sign angle. For flared beams or other special cases where ∠1 ≠ ∠2, ∠1 = sign angle.



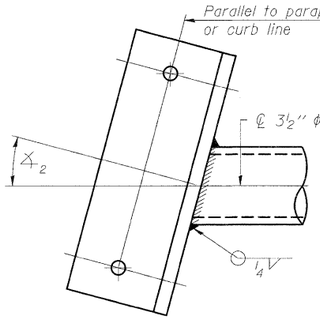
SECTION J-J



SECTION K-K

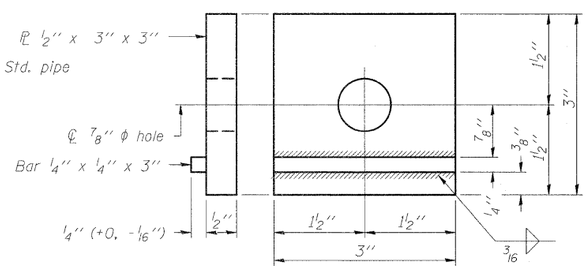


SECTION L-L



SECTION M-M

Skewed connection detail for 3½" ϕ pipe to parapet.



CLAMP PLATE DETAILS

BM-3

1-20-11

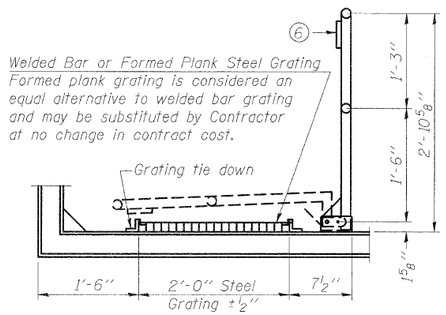
FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - ---	REVISED - ---
		DRAWN - ---	REVISED - ---
	PLOT SCALE = $SCALE$	CHECKED - ---	REVISED - ---
	PLOT DATE = $DATE$	DATE - ---------	REVISED - ---

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

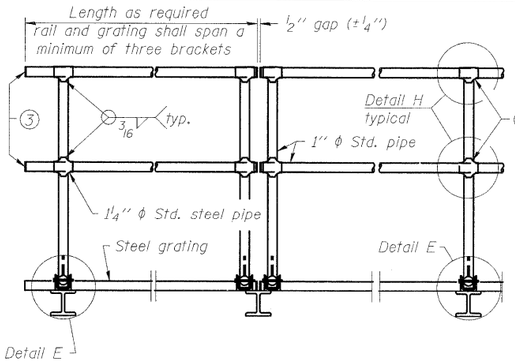
BRIDGE MOUNT SIGN STRUCTURES
CONNECTION DETAILS

SCALE: _____ | SHEET NO. __ OF ___ SHEETS | STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	39
		CONTRACT NO. 76676		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

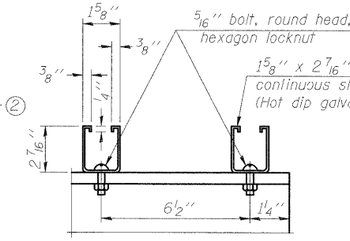


SIDE ELEVATION



DETAIL D HANDRAIL

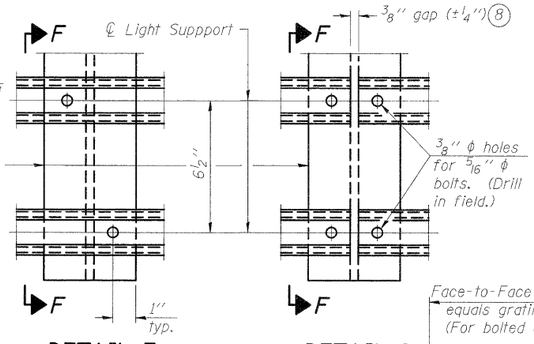
FRONT ELEVATION



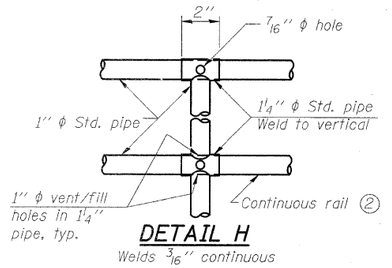
SECTION F-F

LIGHTING FIXTURE MOUNTS

(If required)



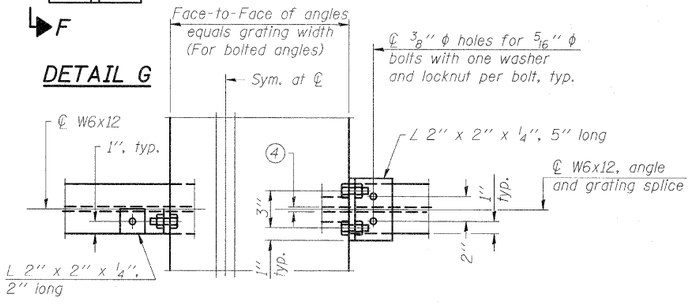
DETAIL F



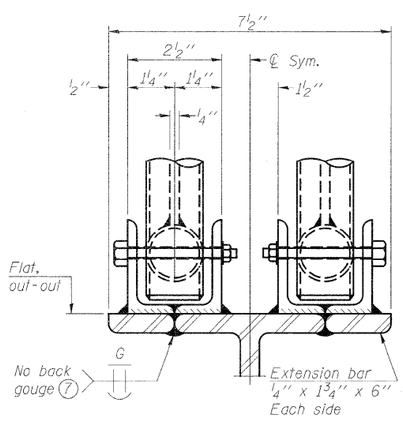
DETAIL H

Welds 3/16" continuous

DETAIL G

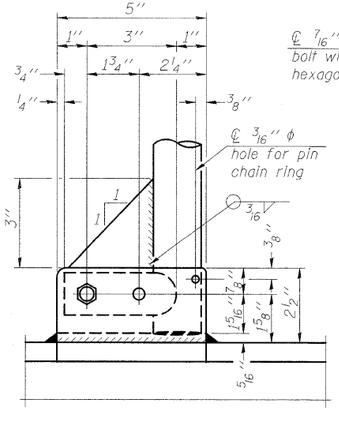


GRATING CONTINUOUS AT GRATING SPLICE

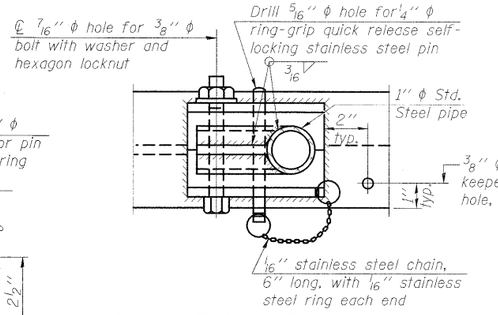


ELEVATION AT HANDRAIL JOINT

(Details not shown same as "FRONT ELEVATION")

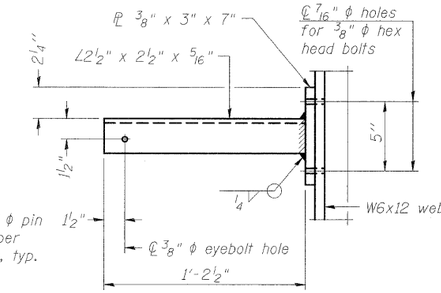


SIDE ELEVATION

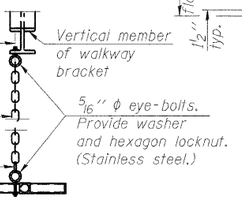


PLAN AT SINGLE HANDRAIL HINGE

DETAIL E



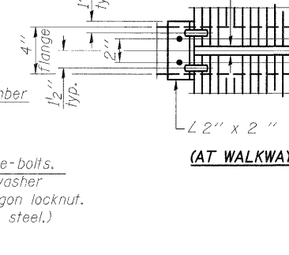
SECTION P-P



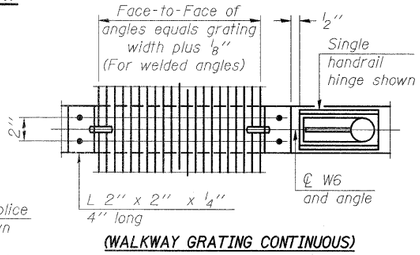
No Sign at Bracket

SAFETY CHAIN

One (1) required for each end of each walkway.

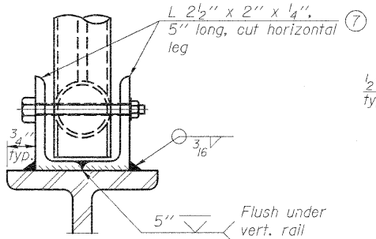


(AT WALKWAY GRATING SPLICE)



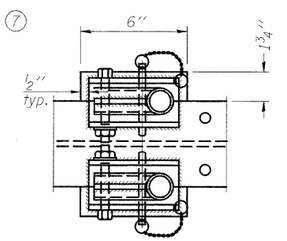
(WALKWAY GRATING CONTINUOUS)

PLAN



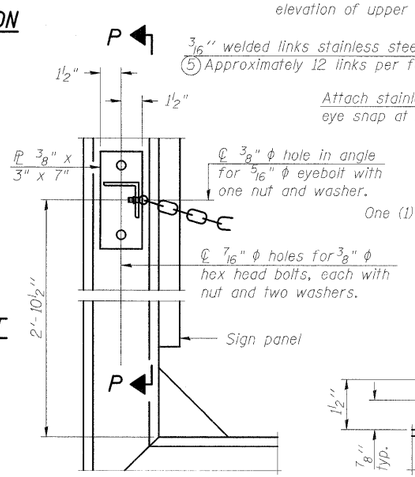
FRONT ELEVATION

(See above Elevations for dimensions.)



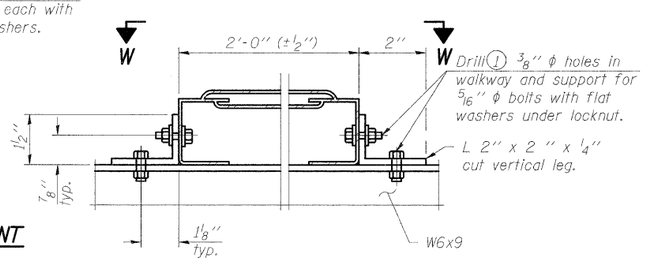
PLAN AT HANDRAIL JOINT

(For Details, see Elevations.)



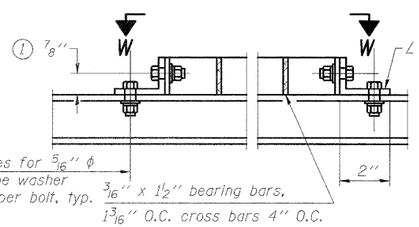
SAFETY CHAIN ATTACHMENT

(With Sign Present)
Items not shown same as "SIDE ELEVATION" and "SAFETY CHAIN"



ALTERNATE FORMED PLANK GRATING DETAILS

Plank Grating: nominal depth = 2½" (±½"); perforated or expanded steel sheet with a non-skid surface (non-serrated) concentrated load capacity = 500 lbs. with 6'-0" clear span.



WELDED BAR GRATING DETAILS

NOTES

1. Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment. Field drilled holes must be touched up with galvanized paint.
2. Horizontal rail member shall be continuous thru 1¼" ϕ pipe. Provide 7/16" ϕ hole in 1¼"ϕ pipe for ⅜" ϕ bolt. Field drill 7/16" ϕ hole in horizontal rail member. Provide washer and locknut for bolt. (Use 5/16" eyebolts in 7/16" ϕ holes on top rail at ends only.)
3. Install standard force-fit end caps or weld ⅛" end plates with ⅛" c.f.w. and grind smooth. (All rail ends.)
4. ⅜" (±¼") gap between grating panels at splice.
5. Chain to be type 304L stainless steel suitable for prolonged exterior exposure. Approximately 3'-6" long chain per location. Maximum sag with handrail erected = 4".
6. PL ⅛" x ½" x 2" welded to handrail posts to protect locations that contact grating.
7. Extrusions may be used in lieu of details shown, with approval by Engineer.
8. Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.

BM-4

1-20-11

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - ---	REVISED - ---
		DRAWN - ---	REVISED - ---
	PLOT SCALE = $SCALE$	CHECKED - ---	REVISED - ---
	PLOT DATE = $DATE$	DATE - ---	REVISED - ---

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE MOUNT SIGN STRUCTURES
WALKWAY DETAILS

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	40
		CONTRACT NO. 76E76		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

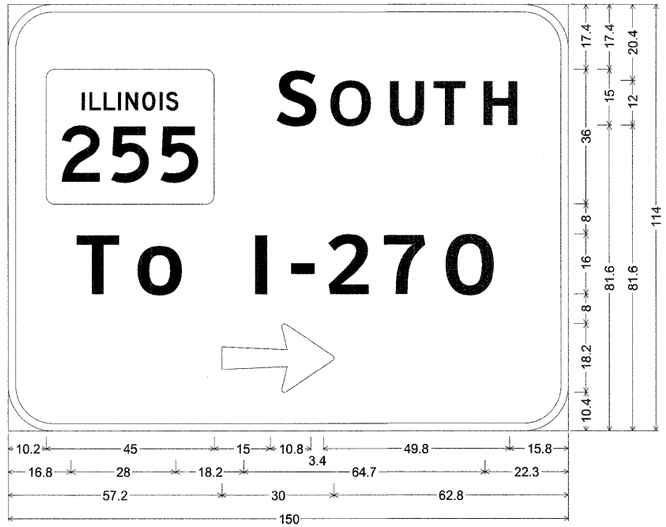
IL 111 STA 29+825 RT
HUMBERT RD STA 19+860 RT

SIGNING NOTES

1. DUE TO THE FACT THAT THE MAINLINE CONTRACT HAS NOT BEEN COMPLETED, SOIL BORINGS FOR THE SIGN STRUCTURE FOUNDATIONS HAVE NOT BEEN COMPLETED. THEREFORE THE CONTRACTOR SHALL BE AWARE THAT, FOR BIDDING PURPOSES, THE SIGN STRUCTURE PLANS WERE PREPARED BASED ON THE ASSUMPTIONS OF AVERAGE COHESIVE SOILS AND A MINIMUM Qu OF 1.0 TON/S.F.. PRIOR TO THE ORDERING OF MATERIALS THE CONTRACTOR MAY HAVE TO CONDUCT BORINGS TO CONFIRM THE Qu AND COHESIVE SOIL PROPERTIES ARE SUFFICIENT. IF NECESSARY, THE SIGN STRUCTURE FOUNDATIONS WILL BE REDESIGNED BY THE DEPARTMENT, AND THE CONTRACTOR WILL BE COMPENSATED FOR THE ACTUAL FOUNDATION DEPTH USED. ANY BORINGS CONDUCTED BY THE CONTRACTOR AT THE DEPARTMENT'S DIRECTION SHALL BE PAID FOR PER ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

2. ANY UNDERDRAINS PR UNDERDRAIN OUTLETS ENCOUNTERED IN THE INSTALLATION OF OVERHEAD SIGN STRUCTURES OR GUARDRAIL SHALL BE ADJUSTED AS NECESSARY AND CONSIDERED INCLUDED IN THE COST OF THOSE ITEMS.

3. IT SHALL BE NOTED THE OVERHEAD SIGN STRUCTURE BASE SHEETS ARE IN ENGLISH WHILE THE STATIONS AND ELEVATIONS ARE IN METRIC.

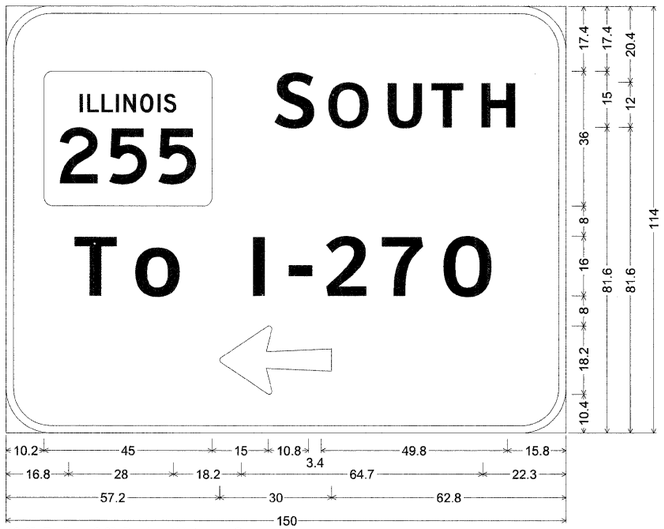


12.0" Radius, 2.0" Border, White on Green;
[S OUTH] ClearviewHwy-5-W; [To I-270] ClearviewHwy-5-W; Arrow 133 - 30.0° 0°;
Table of widths and spaces.

10.2	255 45.0	15.0	S 10.8	3.4	O 11.1	4.4	U 9.3	3.6	T 8.6	3.6	H 9.2	15.8										
16.8	T 11.5	4.1	o 12.4	18.2	I 3.1	6.5	- 6.3	5.0	2 11.0	4.2	7 11.3	4.3	O 13.0	22.3								
57.2	⇨ 30.0	62.8																				

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED - ___	REVISED - ___	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**SIGN PANEL DETAILS**			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - ___	REVISED - ___					310	60-15SG	MADISON	54	41
	PLOT SCALE = $SCALE$	CHECKED - ___	REVISED - ___								CONTRACT NO. 76E76	
	PLOT DATE = $DATE$	DATE - _____	REVISED - ___		SCALE: _____	SHEET NO. __ OF ___ SHEETS	STA. _____ TO STA. _____	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

IL STA 29+890 LT
HUMBERT RD STA 19+920 LT



12.0" Radius, 2.0" Border, White on Green;
[S OUTH] ClearviewHwy-5-W; [To I-270] ClearviewHwy-5-W; Arrow 133 - 30.0" 180°;
Table of widths and spaces.

	255		S		O		U		T		H	
10.2	45.0	15.0	10.8	3.4	11.1	4.4	9.3	3.6	8.6	3.6	9.2	15.8

T		o		I		-		2		7		O	
16.8	11.5	4.1	12.4	18.2	3.1	6.5	6.3	5.0	11.0	4.2	11.3	4.3	13.0	22.3

	⇦	
57.2	30.0	62.8

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - ___	REVISED - ___	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		DRAWN - ___	REVISED - ___	
	PLOT SCALE = $SCALE$	CHECKED - ___	REVISED - ___	
	PLOT DATE = $DATE$	DATE - _____	REVISED - ___	

SIGN PANEL DETAILS

SCALE: _____ | SHEET NO. __ OF ___ SHEETS | STA. _____ TO STA. _____

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	42
		CONTRACT NO. 76E76		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

IL 111 STA 29+981.25 RT
HUMBERT RD STA 19+981.25 RT
SEMINARY RD STA 4+981.25 RT

12.0" Radius, 2.0" Border, White on Green;
[N ORTH] ClearviewHwy-5-W; [Godfrey] ClearviewHwy-5-W;
[LEFT LANE] ClearviewHwy-5-W;
Table of widths and spaces.

	255		N		O		R		T		H															
15.2	45.0	15.0	12.4	4.3	11.2	4.3	9.0	2.9	8.7	3.6	9.2	15.2														
	G		o		d		f		r		e		y													
26.1	13.8	5.1	12.4	4.8	11.6	4.7	7.7	4.6	7.4	4.0	11.8	3.4	12.5	26.1												
	L		E		F		T		L		A		N		E											
35.9	5.8	3.2	6.4	3.4	6.1	2.3	7.2	11.0	5.9	2.0	9.4	2.9	8.3	4.0	6.3	35.9										

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - ___	REVISED - ___
		DRAWN - ___	REVISED - ___
	PLOT SCALE = $SCALE$	CHECKED - ___	REVISED - ___
	PLOT DATE = $DATE$	DATE - _____	REVISED - ___

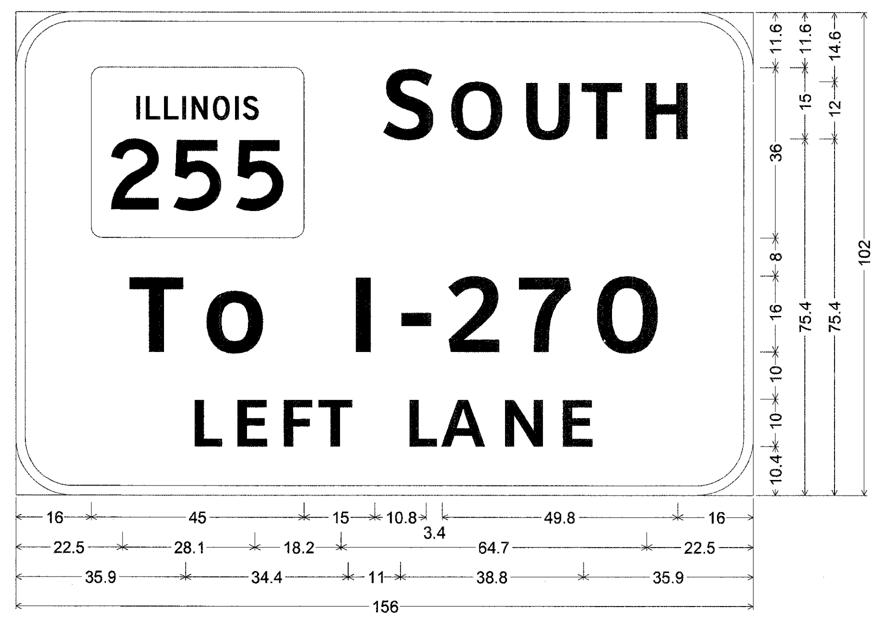
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

SCALE: _____ | SHEET NO. __ OF ___ SHEETS | STA. _____ TO STA. _____

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	43
		CONTRACT NO. 76E76		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

IL 111 STA 30+018.75 LT
HUMBERT RD STA 20+018.75 LT



12.0" Radius, 2.0" Border, White on Green;
[S OUTH] ClearviewHwy-5-W; [To I-270] ClearviewHwy-5-W;
[LEFT LANE] ClearviewHwy-5-W;
Table of widths and spaces.

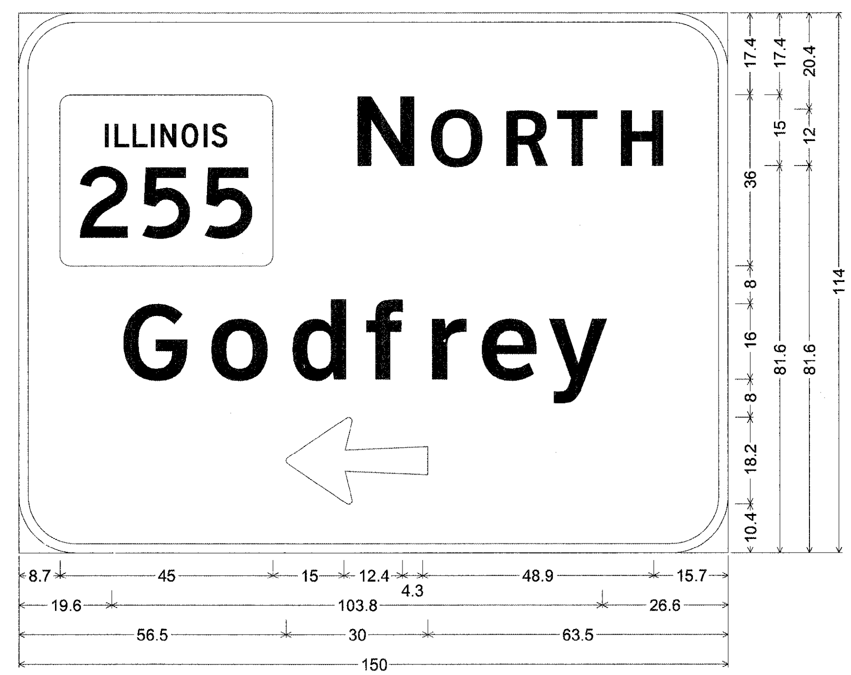
	255		S		O		U		T		H	
16.0	45.0	15.0	10.8	3.4	11.1	4.4	9.2	3.6	8.7	3.6	9.2	16.0

	T		o		I		-		2		7		O	
22.5	11.6	4.1	12.4	18.2	3.1	6.5	6.2	5.1	11.0	4.2	11.3	4.2	13.1	22.5

	L		E		F		T		L		A		N		E	
35.9	5.8	3.2	6.4	3.4	6.1	2.3	7.2	11.0	5.9	2.0	9.4	2.9	8.3	4.0	6.3	35.9

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - ___	REVISED - ___	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DETAILS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - ___	REVISED - ___			310	60-15SG	MADISON	54 / 44
	PLOT SCALE = $SCALE$	CHECKED - ___	REVISED - ___					CONTRACT NO. 76E76	
	PLOT DATE = $DATE$	DATE - ________	REVISED - ___		SCALE: ________ SHEET NO. __ OF ___ SHEETS STA. _________ TO STA. _________	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT	

IL 111 STA 30+070 RT
HUMBERT RD STA 20+080 RT
SEMINARY RD STA 5+110 RT



12.0" Radius, 2.0" Border, White on Green;
[N ORTH] ClearviewHwy-5-W; [Godfrey] ClearviewHwy-5-W; Arrow 133 - 30.0" 180°;
Table of widths and spaces.

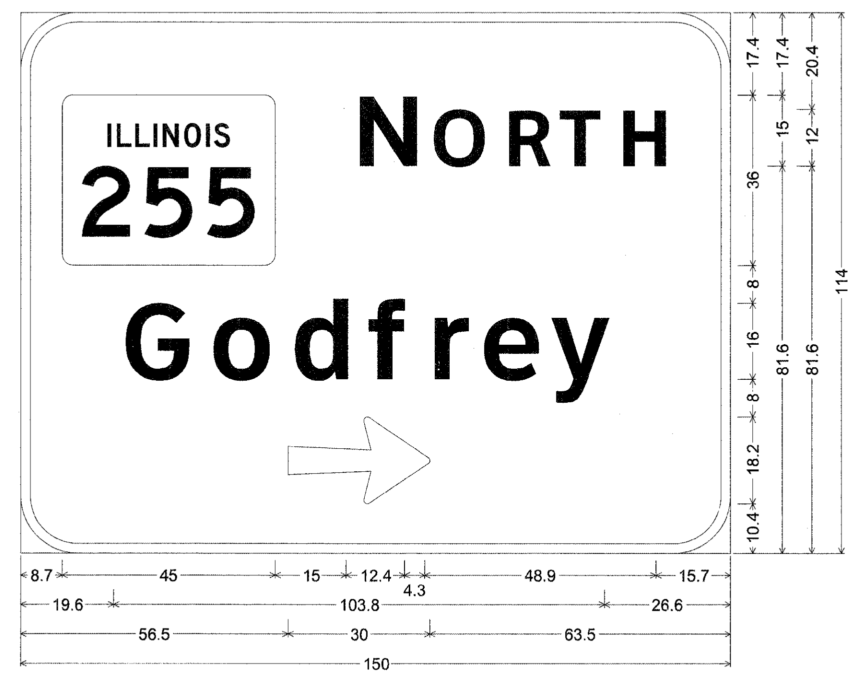
	[255]		N		O		R		T		H	
8.7	45.0	15.0	12.4	4.3	11.1	4.3	9.1	2.9	8.6	3.6	9.3	15.7

	G		o		d		f		r		e		y	
19.6	13.8	5.1	12.4	4.8	11.6	4.7	7.7	4.6	7.4	4.0	11.8	3.4	12.5	26.6

	[arrow]	
56.5	30.0	63.5

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - ___	REVISED - ___	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DETAILS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - ___	REVISED - ___			310	60-15SG	MADISON	54	45
	PLOT SCALE = $SCALE$	CHECKED - ___	REVISED - ___					CONTRACT NO. 76E76		
	PLOT DATE = $DATE$	DATE - ________	REVISED - ___		SCALE: ________ SHEET NO. __ OF ___ SHEETS STA. _________ TO STA. _________	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

IL 111 STA 30+160 LT
HUMBERT RD STA 20+140 LT
SEMINARY RD STA 5+170 LT



12.0" Radius, 2.0" Border, White on Green;
[N ORTH] ClearviewHwy-5-W; [Godfrey] ClearviewHwy-5-W; Arrow 133 - 30.0" 0°;
Table of widths and spaces.

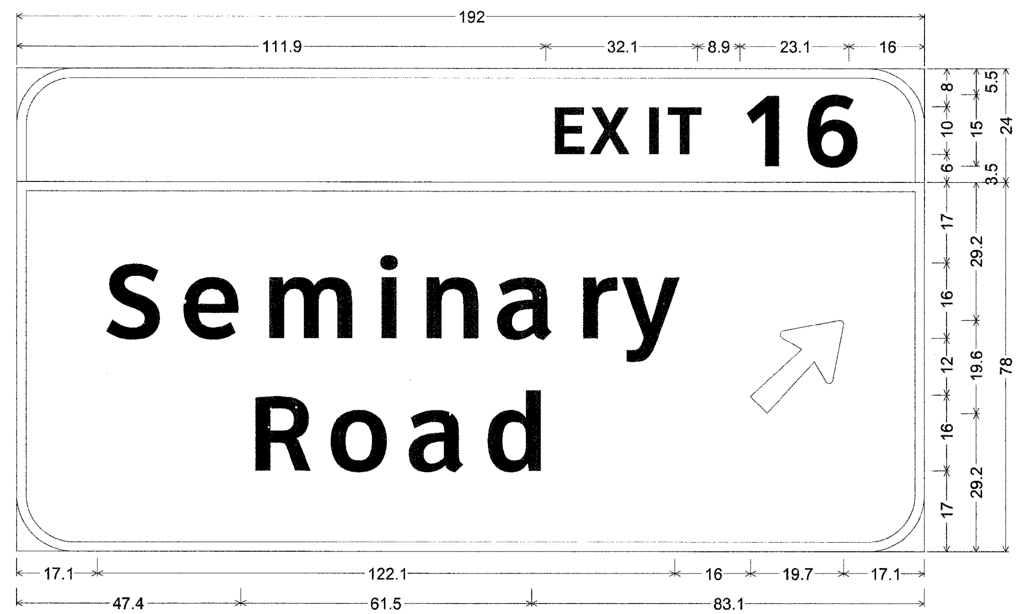
	255		N		O		R		T		H	
8.7	45.0	15.0	12.4	4.3	11.1	4.3	9.1	2.9	8.6	3.6	9.3	15.7

	G		o		d		f		r		e		y	
19.6	13.8	5.1	12.4	4.8	11.6	4.7	7.7	4.6	7.4	4.0	11.8	3.4	12.5	26.6

	⇨	
56.5	30.0	63.5

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - ___	REVISED - ___	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DETAILS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - ___	REVISED - ___			310	60-15SG	MADISON	54 / 46
	PLOT SCALE = $SCALE$	CHECKED - ___	REVISED - ___					CONTRACT NO. 76E76	
	PLOT DATE = $DATE$	DATE - ________	REVISED - ___		SCALE: ________ SHEET NO. __ OF ___ SHEETS STA. __________ TO STA. __________	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT	

IL 255 35+125 LT



12.0" Radius, 2.0" Border, White on Green;
[EXIT 16] ClearviewHwy-5-W;
12.0" Radius, 2.0" Border, White on Green;
[Seminary] ClearviewHwy-5-W; [Road] ClearviewHwy-5-W; Arrow 80 - 25.0" 45°;
Table of widths and spaces.

	E		X		I		T		1		6	
111.9	6.3	2.2	8.7	2.7	1.9	3.0	7.3	8.9	6.9	5.4	10.8	16.0

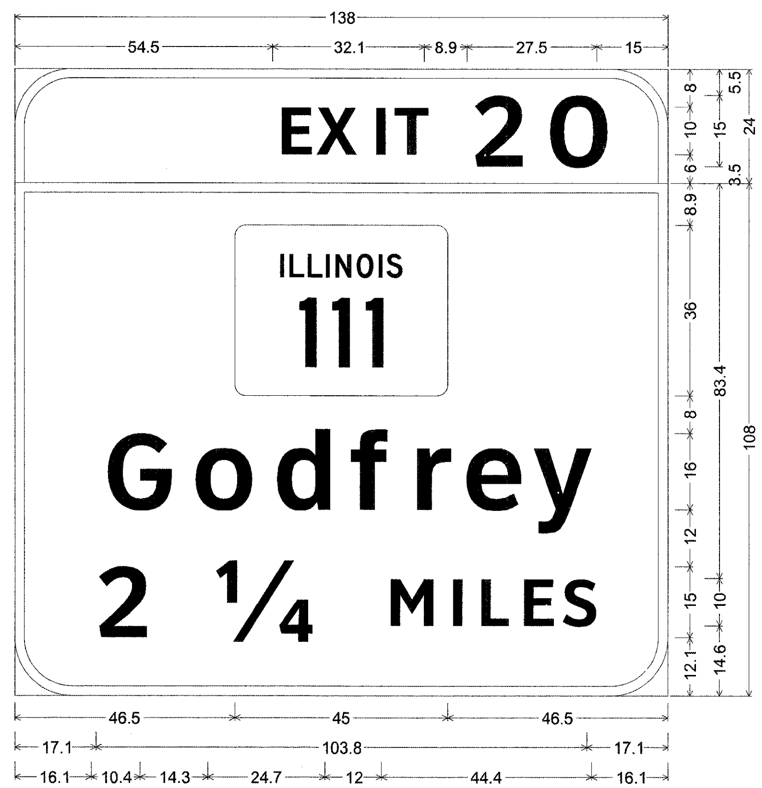
	S		e		m		i		n		a		r		y		↗	
17.1	11.6	4.4	11.8	5.4	18.1	5.6	3.8	5.7	11.2	5.0	12.0	5.0	7.3	2.7	12.5	16.0	19.7	17.1

	R		o		a		d	
47.4	12.0	4.8	12.4	4.4	11.9	4.5	11.5	83.1

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - ___	REVISED - ___	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DETAILS
		DRAWN - ___	REVISED - ___		
	PLOT SCALE = $SCALE$	CHECKED - ___	REVISED - ___		
	PLOT DATE = $DATE$	DATE - ________	REVISED - ___		SCALE: ________ SHEET NO. __ OF ___ SHEETS STA. _________ TO STA. _________

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	47
		CONTRACT NO. 76E76		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

IL 255 36+000 RT



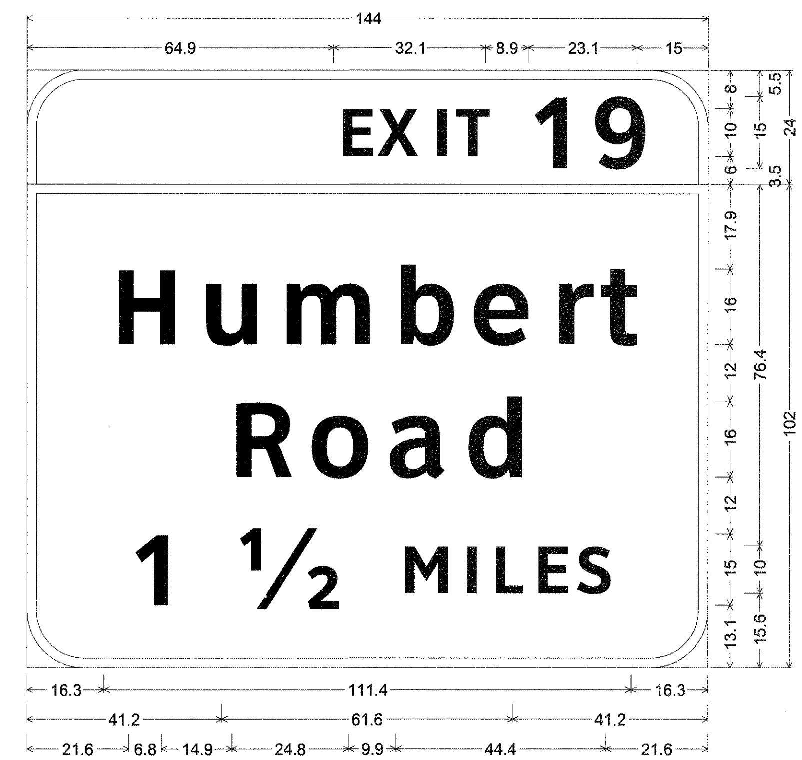
12.0" Radius, 2.0" Border, White on Green;
[EXIT 20] ClearviewHwy-5-W;
12.0" Radius, 2.0" Border, White on Green;
[Godfrey] ClearviewHwy-5-W; [2 ¼ MILES] ClearviewHwy-5-W;
Table of widths and spaces.

	E		X		I		T		2		O	
54.5	6.3	2.2	8.6	2.8	1.9	3.0	7.3	8.9	10.4	4.9	12.2	15.0

	111	
46.5	45.0	46.5

	G		o		d		f		r		e		y	
17.1	13.8	5.1	12.4	4.8	11.6	4.7	7.7	4.6	7.4	4.0	11.8	3.4	12.5	17.1

	2		¼		M		I		L		E		S	
16.1	10.4	14.3	24.7	12.0	9.2	3.9	2.0	4.0	5.8	3.3	6.3	2.6	7.3	16.1



12.0" Radius, 2.0" Border, White on Green;
[EXIT 19] ClearviewHwy-5-W;
12.0" Radius, 2.0" Border, White on Green;
[Humbert] ClearviewHwy-5-W; [Road] ClearviewHwy-5-W;
[1 ½ MILES] ClearviewHwy-5-W;
Table of widths and spaces.

	E		X		I		T		1		9	
64.9	6.3	2.2	8.7	2.7	1.9	3.0	7.3	8.9	6.9	5.3	10.9	15.0

	H		u		m		b		e		r		t	
16.3	12.3	6.2	10.9	6.1	18.1	6.0	11.6	4.8	11.7	5.5	7.3	3.1	7.8	16.3

	R		o		a		d	
41.2	12.0	4.8	12.4	4.4	12.0	4.4	11.6	41.2

	1		½		M		I		L		E		S	
21.6	6.8	14.9	24.8	9.9	9.2	4.0	1.9	4.1	5.8	3.2	6.4	2.6	7.2	21.6

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - ___	REVISED - ___
		DRAWN - ___	REVISED - ___
	PLOT SCALE = $SCALE$	CHECKED - ___	REVISED - ___
	PLOT DATE = $DATE$	DATE - ________	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

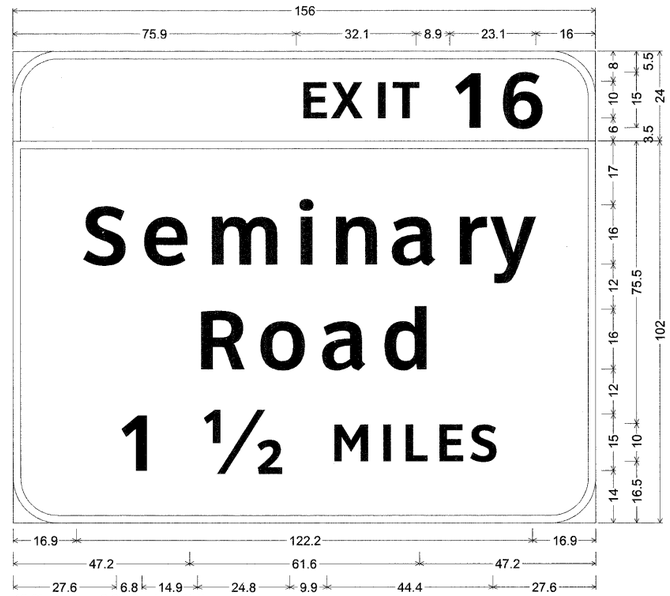
SIGN PANEL DETAILS

SCALE: ________ | SHEET NO. __ OF ___ SHEETS | STA. _________ TO STA. _________

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	48
		CONTRACT NO. 76E76		

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

IL 255 37+425 LT



12.0" Radius, 2.0" Border, White on Green;
[EXIT 16] ClearviewHwy-5-W;
12.0" Radius, 2.0" Border, White on Green;
[Seminary] ClearviewHwy-5-W; [Road] ClearviewHwy-5-W; [1 ½ MILES] ClearviewHwy-5-W;
Table of widths and spaces.

	E		X		I		T		1		6	
75.9	6.3	2.2	8.7	2.7	1.9	3.0	7.3	8.9	6.9	5.4	10.8	16.0

	S		e		m		i		n		a		r		y	
16.9	11.6	4.4	11.8	5.4	18.1	5.7	3.8	5.7	11.1	5.1	11.9	5.1	7.3	2.7	12.5	16.9

	R		o		a		d	
47.2	12.0	4.8	12.4	4.4	12.0	4.4	11.6	47.2

	1		½		M		I		L		E		S	
27.6	6.8	14.9	24.8	9.9	9.2	4.0	1.9	4.1	5.8	3.2	6.4	2.6	7.2	27.6

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - ___	REVISED - ___
		DRAWN - ___	REVISED - ___
	PLOT SCALE = $SCALE$	CHECKED - ___	REVISED - ___
	PLOT DATE = $DATE$	DATE - _____	REVISED - ___

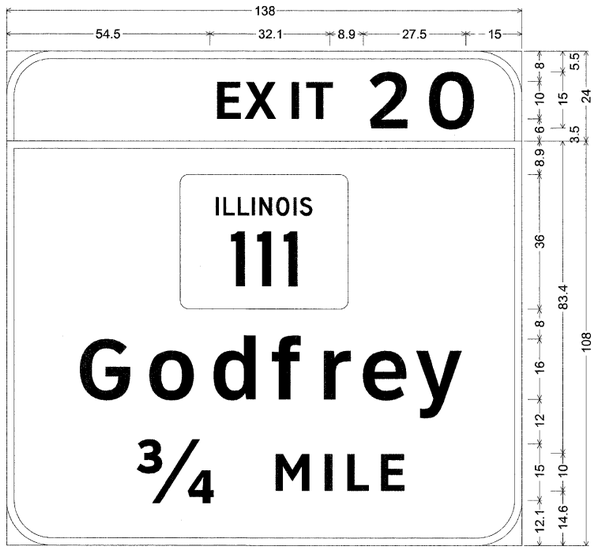
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

SCALE: _____ | SHEET NO. __ OF ___ SHEETS | STA. _____ TO STA. _____

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	49
		CONTRACT NO. 76E76		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

IL 255 38+225 RT



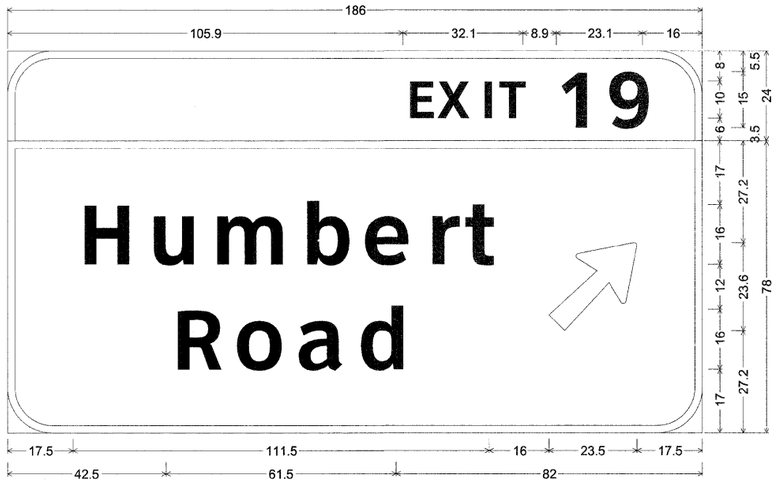
12.0" Radius, 2.0" Border, White on Green;
[EXIT 20] ClearviewHwy-5-W;
12.0" Radius, 2.0" Border, White on Green;
[Godfrey] ClearviewHwy-5-W; [¾ MILE] ClearviewHwy-5-W;
Table of widths and spaces.

54.5	E 6.3	2.2	X 8.6	2.8	I 1.9	3.0	T 7.3	8.9	2 10.4	4.9	0 12.2	15.0

46.5	45.0	46.5

17.1	G 13.8	5.1	o 12.4	4.8	d 11.6	4.7	f 7.7	4.6	r 7.4	4.0	e 11.8	3.4	y 12.5	17.1

33.4	¾ 24.7	12.0	M 9.2	4.0	I 1.9	4.0	L 5.9	3.2	E 6.3	33.4



12.0" Radius, 2.0" Border, White on Green;
[EXIT 19] ClearviewHwy-5-W;
12.0" Radius, 2.0" Border, White on Green;
[Humbert] ClearviewHwy-5-W; [Road] ClearviewHwy-5-W; Arrow 133 - 30.0° 45°;
Table of widths and spaces.

105.9	E 6.3	2.2	X 8.7	2.7	I 1.9	3.0	T 7.3	8.9	1 6.9	5.3	9 10.9	16.0		

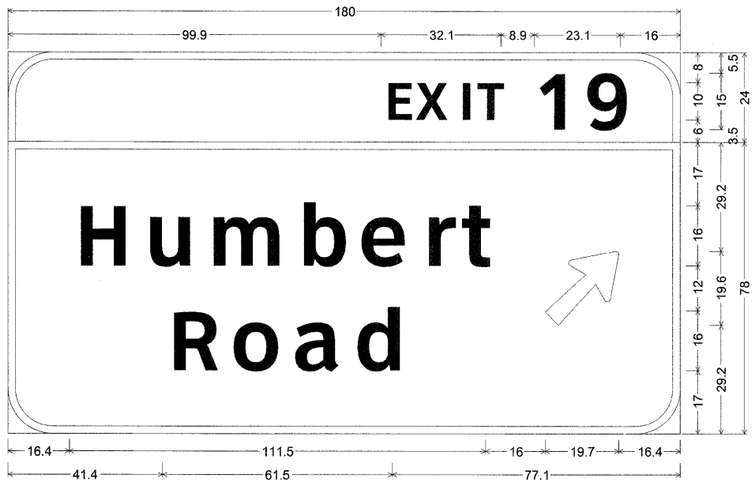
17.5	H 12.3	6.2	u 11.0	6.0	m 18.1	6.1	b 11.5	4.8	e 11.8	5.4	r 7.3	3.1	t 7.9	16.0	23.5	17.5

42.5	R 12.0	4.8	o 12.3	4.5	a 11.9	4.4	d 11.6	82.0

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - ___	REVISED - ___	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DETAILS
		DRAWN - ___	REVISED - ___		
	PLOT SCALE = $SCALE$	CHECKED - ___	REVISED - ___		SCALE: _____ SHEET NO. __ OF ___ SHEETS STA. _____ TO STA. _____
	PLOT DATE = $DATE$	DATE - _____	REVISED - ___		

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	50
		CONTRACT NO. _____		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

IL 255 39+225 LT



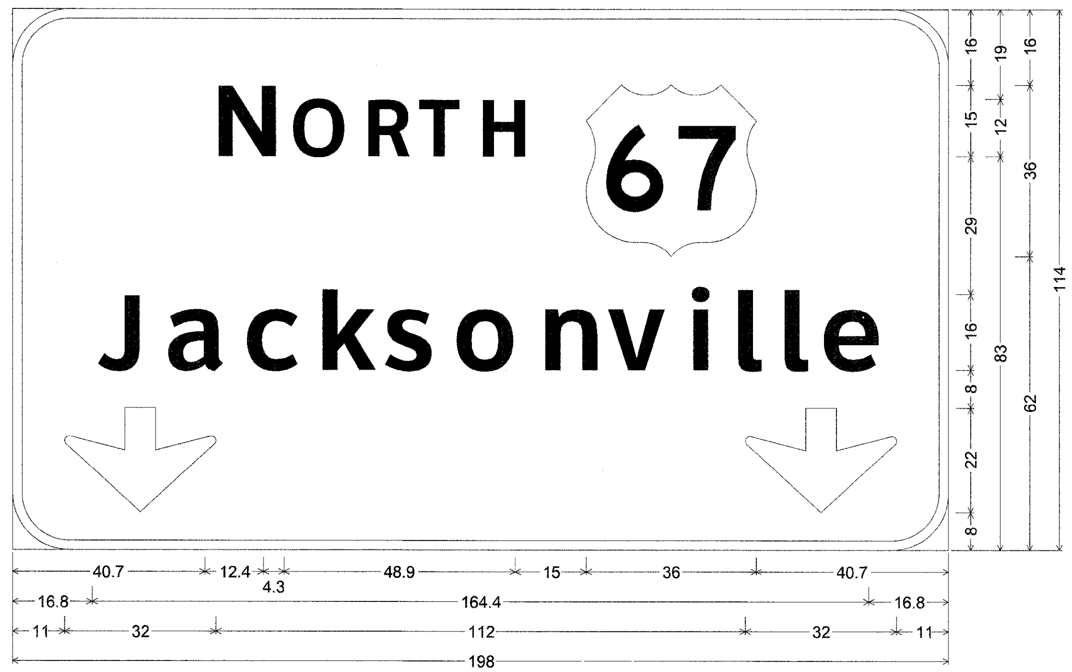
12.0" Radius, 2.0" Border, White on Green;
[EXIT 19] ClearviewHwy-5-W;
12.0" Radius, 2.0" Border, White on Green;
[Humbert] ClearviewHwy-5-W; [Road] ClearviewHwy-5-W; Arrow 80 - 25.0" 45°;
Table of widths and spaces.

	E		X		I		T		1		9							
99.9	6.3	2.2	8.7	2.7	1.9	3.0	7.3	8.9	6.9	5.3	10.9	16.0						
	H		u		m		b		e		r		t					
16.4	12.3	6.3	10.9	6.1	18.0	6.1	11.6	4.8	11.7	5.4	7.4	3.0	7.9	16.0	19.7	16.4		
	R		o		a		d											
41.4	12.0	4.8	12.4	4.4	11.9	4.5	11.5	77.1										

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - ___	REVISED - ___	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**SIGN PANEL DETAILS**
		DRAWN - ___	REVISED - ___		
	PLOT SCALE = $SCALE$	CHECKED - ___	REVISED - ___		SCALE: _____ SHEET NO. __ OF ___ SHEETS STA. _____ TO STA. _____
	PLOT DATE = $DATE$	DATE - _____	REVISED - ___		

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	51
		CONTRACT NO. 76E76		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

IL 255 39+450 RT

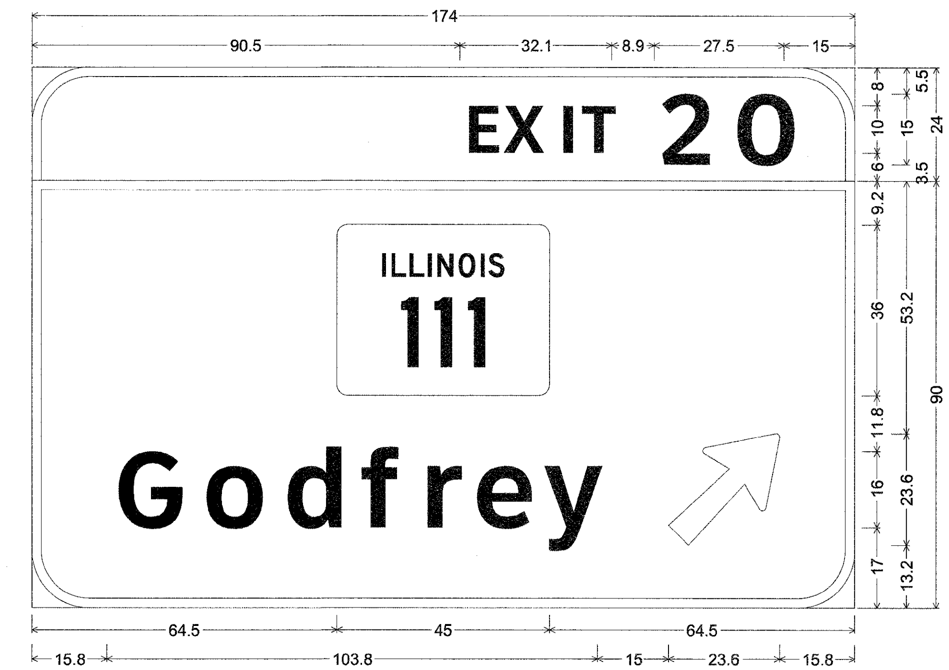


12.0" Radius, 2.0" Border, White on Green;
[N ORTH] ClearviewHwy-5-W; [Jacksonville] ClearviewHwy-5-W; Down Arrow 22.0" 270°; Down Arrow 22.0" 270°;
Table of widths and spaces.

	N		O		R		T		H		(67)	
40.7	12.4	4.3	11.2	4.3	9.0	2.9	8.7	3.6	9.2	15.0	36.0	40.7

	J		a		c		k		s		o		n		v		i		l		l		e	
16.8	8.9	5.3	12.0	4.4	10.8	4.6	11.3	2.9	10.2	4.6	12.4	5.4	11.1	4.1	12.2	3.9	3.7	5.7	5.1	4.8	5.1	4.1	11.8	16.8

	↓		↓	
11.0	32.0	112.0	32.0	11.0



12.0" Radius, 2.0" Border, White on Green;
[EXIT 20] ClearviewHwy-5-W;
12.0" Radius, 2.0" Border, White on Green;
[Godfrey] ClearviewHwy-5-W; Arrow 133 - 30.0" 45°;
Table of widths and spaces.

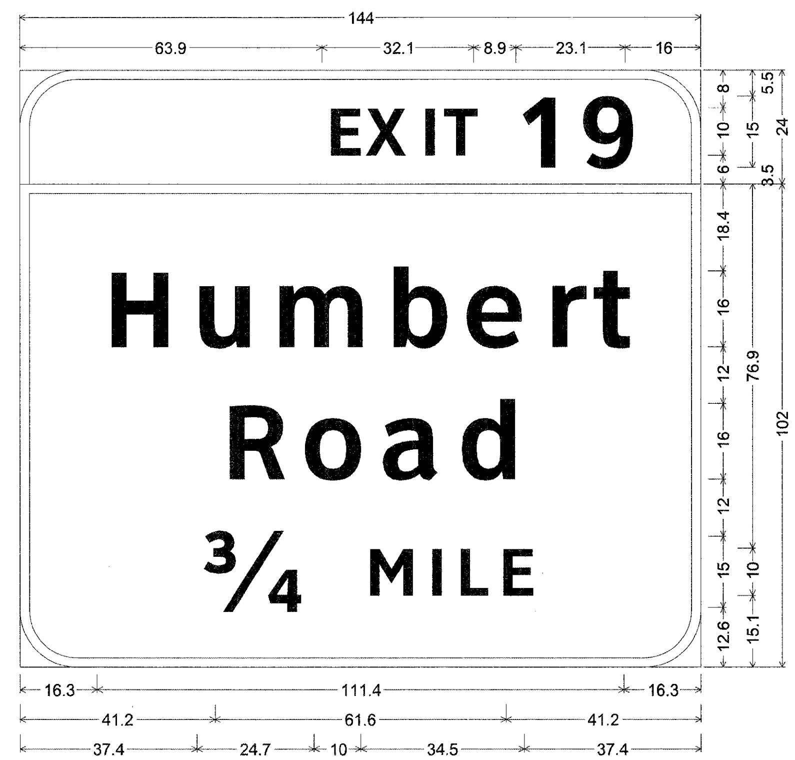
	E		X		I		T		2		0	
90.5	6.3	2.2	8.6	2.8	1.9	3.0	7.3	8.9	10.4	4.9	12.2	15.0

	(111)	
64.5	45.0	64.5

	G		o		d		f		r		e		y		↗	
15.8	13.9	5.0	12.4	4.8	11.6	4.7	7.8	4.6	7.3	4.1	11.7	3.4	12.5	15.0	23.6	15.8

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - ___	REVISED - ___	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DETAILS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - ___	REVISED - ___			310	60-15SG	MADISON	54	52
	PLOT SCALE = $SCALE$	CHECKED - ___	REVISED - ___					CONTRACT NO. 76E76		
	PLOT DATE = $DATE$	DATE - ________	REVISED - ___		SCALE: ________ SHEET NO. __ OF ___ SHEETS STA. _________ TO STA. _________	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

IL 255 40+150 LT



12.0" Radius, 2.0" Border, White on Green;
[EXIT 19] ClearviewHwy-5-W;
12.0" Radius, 2.0" Border, White on Green;
[Humbert] ClearviewHwy-5-W; [Road] ClearviewHwy-5-W;
[¾ MILE] ClearviewHwy-5-W;
Table of widths and spaces.

	E		X		I		T		1		9	
63.9	6.3	2.2	8.7	2.7	1.9	3.0	7.3	8.9	6.9	5.3	10.9	16.0

	H		u		m		b		e		r		t	
16.3	12.3	6.2	10.9	6.1	18.1	6.0	11.6	4.8	11.7	5.5	7.3	3.1	7.8	16.3

	R		o		a		d	
41.2	12.0	4.8	12.4	4.4	12.0	4.4	11.6	41.2

	¾		M		I		L		E	
37.4	24.7	10.0	9.2	3.9	2.0	4.0	5.9	3.2	6.3	37.4

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - ___	REVISED - ___	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DETAILS
		DRAWN - ___	REVISED - ___		
	PLOT SCALE = $SCALE$	CHECKED - ___	REVISED - ___		
	PLOT DATE = $DATE$	DATE - ________	REVISED - ___		SCALE: _________ SHEET NO. __ OF ___ SHEETS STA. __________ TO STA. __________

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	53
		CONTRACT NO. 76E76		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

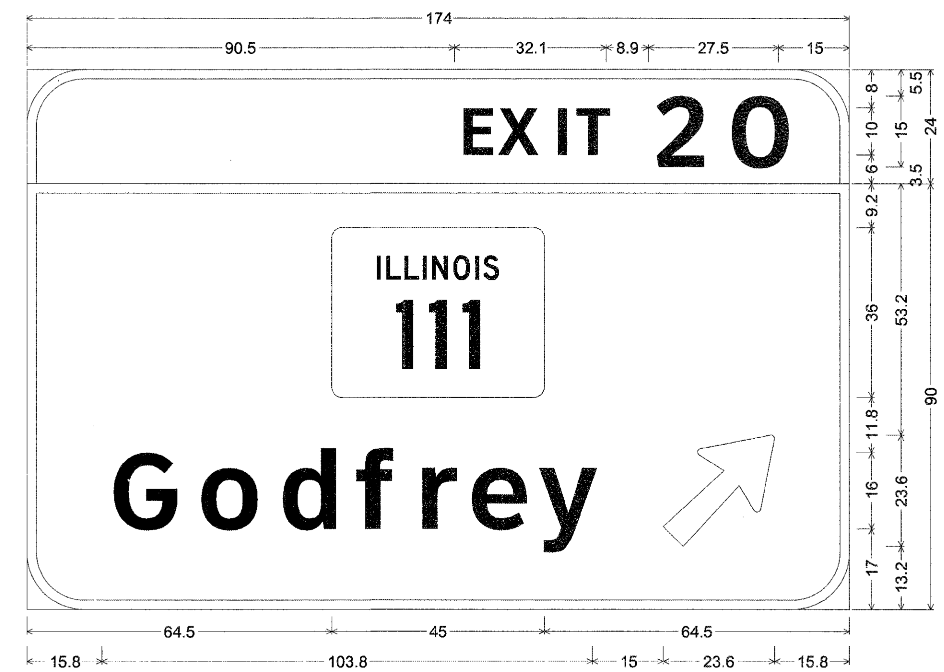
IL 255 40+450 LT

12.0" Radius, 2.0" Border, White on Green;
[S OUTH] ClearviewHwy-5-W; [To I-270] ClearviewHwy-5-W; [Memphis] ClearviewHwy-5-W;
Table of widths and spaces.

	S		O		U		T		H			
16.0	10.8	3.4	11.1	4.4	9.2	3.6	8.7	3.6	9.2	15.0	45.0	16.0

	T		o		I		-		2		7		0	
22.5	11.6	4.1	12.4	18.2	3.1	6.5	6.2	5.1	11.0	4.2	11.3	4.2	13.1	22.5

	M		e		m		p		h		i		s	
21.1	14.7	5.6	11.7	5.5	18.0	6.1	11.6	5.4	11.1	5.7	3.8	4.4	10.2	21.1



12.0" Radius, 2.0" Border, White on Green;
[EXIT 20] ClearviewHwy-5-W;
12.0" Radius, 2.0" Border, White on Green;
[Godfrey] ClearviewHwy-5-W; Arrow 133 - 30.0" 45°;
Table of widths and spaces.

	E		X		I		T		2		O	
90.5	6.3	2.2	8.6	2.8	1.9	3.0	7.3	8.9	10.4	4.9	12.2	15.0

64.5	45.0	64.5

	G		o		d		f		r		e		y			
15.8	13.9	5.0	12.4	4.8	11.6	4.7	7.8	4.6	7.3	4.1	11.7	3.4	12.5	15.0	23.6	15.8

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - ___	REVISED - ___
		DRAWN - ___	REVISED - ___
	PLOT SCALE = $SCALE$	CHECKED - ___	REVISED - ___
	PLOT DATE = $DATE$	DATE - ________	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGN PANEL DETAILS

SCALE: ________ | SHEET NO. __ OF ___ SHEETS | STA. _________ TO STA. _________

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-15SG	MADISON	54	54

CONTRACT NO. 76E76

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