



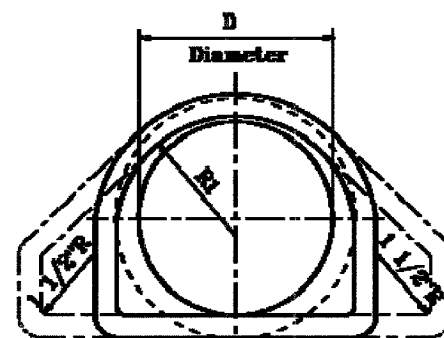
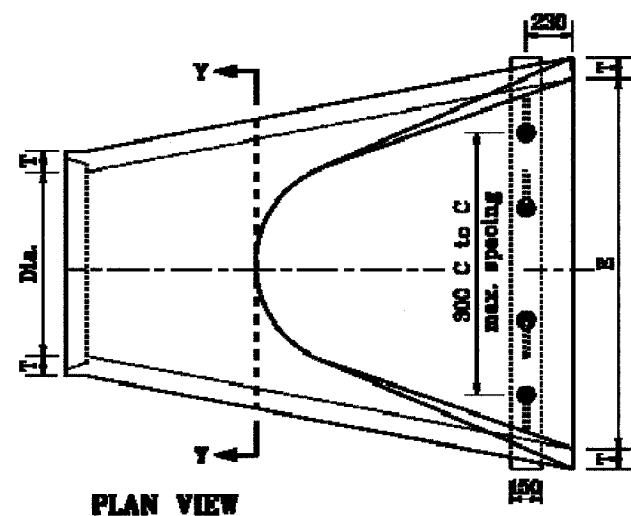
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	301
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

GENERAL NOTES

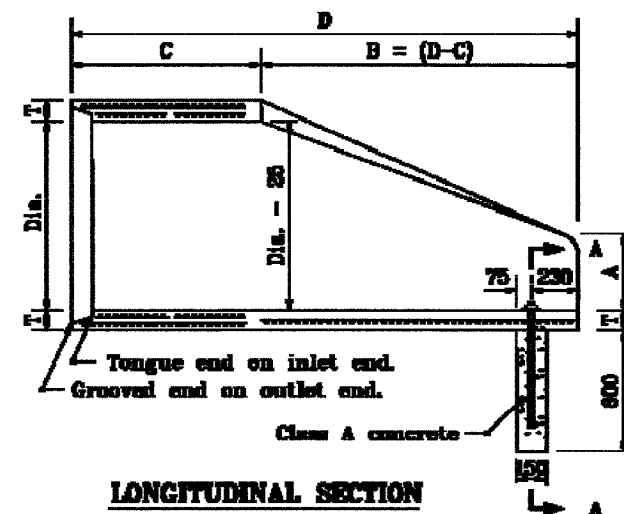
1. Standard Drawing 715-BKFL-01, 03, 06 and 07 illustrate the requirements for pipe installations utilizing structure backfill. Standard Drawings 715-BKFL-02, 04, 08, and 08 illustrate the requirements for pipe installations using flowable backfill.
2. Protective cover shall be constructed prior to running heavy equipment over installed pipes. The minimum covers are listed below:
 - a.) 0.5 m for $B_c \leq 450$, where B_c = pipe diameter or span
 - b.) 0.8 m for $450 < B_c \leq 1350$
 - c.) 1.2 m for $B_c > 1350$
3. For backfill purposes, paved shoulders, curbs, and sidewalks are considered pavement.
4. Method 1 backfill shall be utilized for all Type 2 or 5 pipe installed parallel to the mainline or public road approaches and within 1525 of pavement. Method 2 backfill shall be utilized for such pipe installed outside 1525 from pavement.
5. If the existing ground line is less than V_c above the proposed top of pipe elevation, the embankment shall be constructed to at least V_c above the proposed top of pipe elevation prior to pipe installation. $V_c = 300$ for $B_c \leq 450$ and $V_c = 500$ for $B_c > 450$.
6. In paved median areas, structure backfill shall be utilized instead of compacted earth backfill between the V_c dimension above the pipe and the top of the trench.
7. Flowable or structure backfill shall be encased by compacted earth backfill. The minimum encasement shall be 0.8 m. If necessary, the 2:1 slope between the flowable or structure backfill and the encasement shall be modified to maintain the minimum 0.8 m encasement.
8. Flowable backfill shall be utilized for plastic pipes fabricated of non hydrostatic design basis rated resins and installed at locations where method 1 backfill is required.

All Dimension are in mm unless otherwise specified

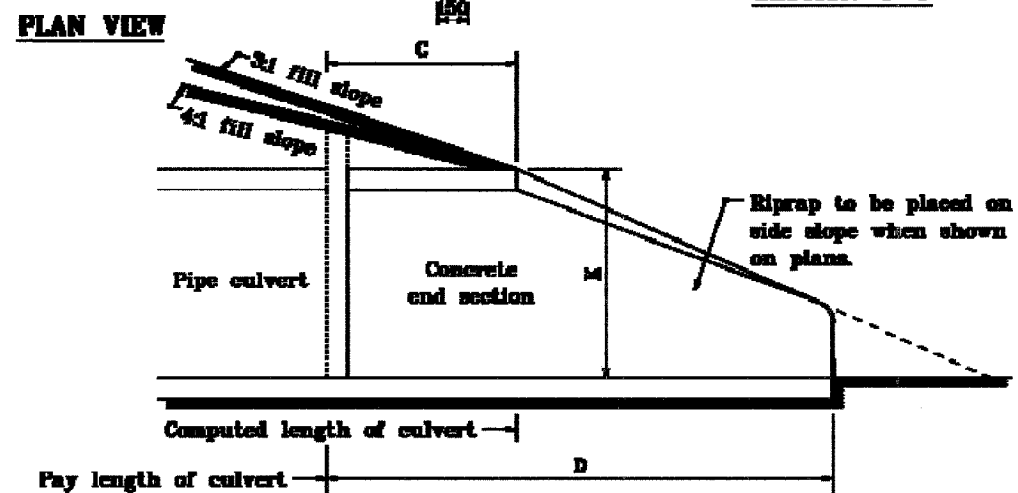
INDIANA DEPARTMENT OF TRANSPORTATION	
PIPE STRUCTURE BACKFILL	
MARCH 2005	
STANDARD DRAWING NO. 715-BKFL-08	
	<i>/s/ Richard L. VandClove</i> 3-01-05 DESIGN STANDARDS ENGINEER DATE
	<i>/s/ Richard K. Smutzer</i> 3-01-05 CHIEF HIGHWAY ENGINEER DATE



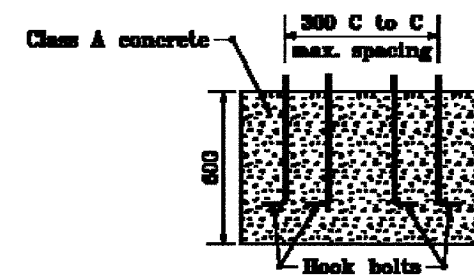
SECTION Y-Y



LONGITUDINAL SECTION



SLOPE DETAIL



SECTION A-A

Concrete Pipe Toe Anchor

TABLE OF DIMENSIONS									
DIA.	T (min.)	A (+25)	C (+25)	D (+25)	E (+25)	K	R1	R2	APPROX. WEIGHT, kg
300	61	125	1300	1800	610	380	267	230	390
375	57	180	1220	1800	700	450	310	200	500
450	64	280	1240	1800	810	550	304	300	580
525	70	280	1070	1900	1070	640	410	330	680
600	78	300	810	1900	1220	700	411	360	820
675	83	330	740	1900	1370	790	471	370	950
750	89	360	580	1900	1520	880	470	390	1090
825	95	380	1070	2510	1680	940	603	440	1800
900	102	380	940	2510	1830	1040	618	510	1910

All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION
PRECAST CONCRETE
END SECTION
MAY 1988

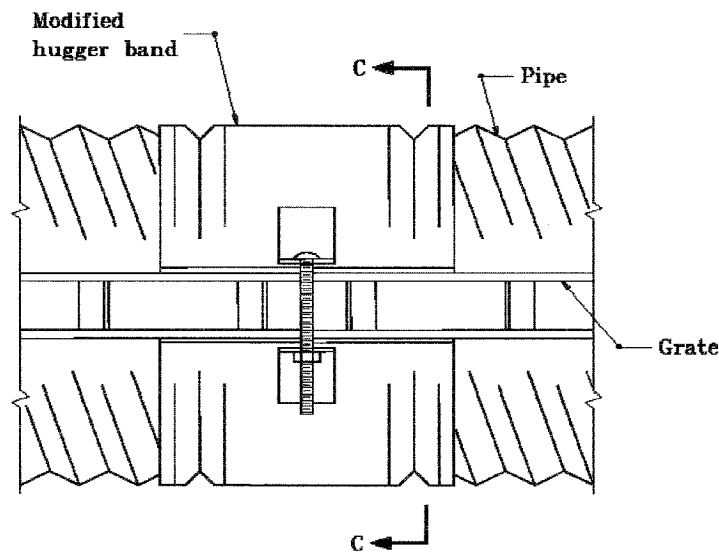
STANDARD DRAWING NO. 715-PCES-01

/s/ Anthony L. Emmerich 5-21-88
PROFESSIONAL ENGINEER DATE

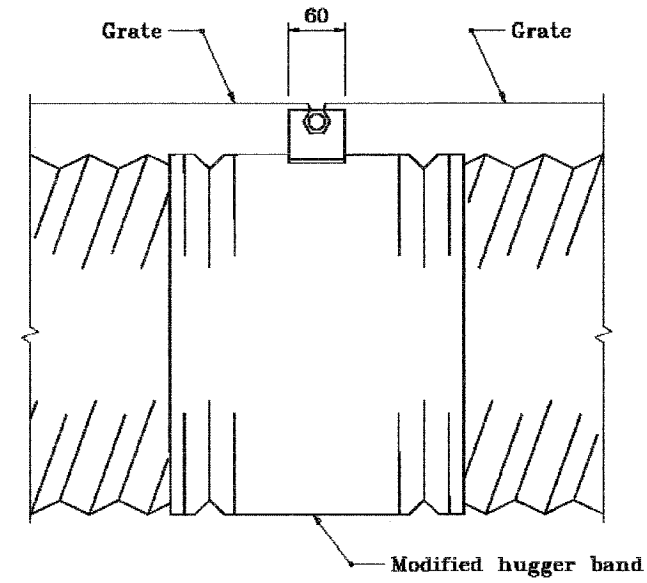
/s/ Ronald V. Lamm 5-21-88
CITY ENGINEER DATE

Source Sheet: ME2

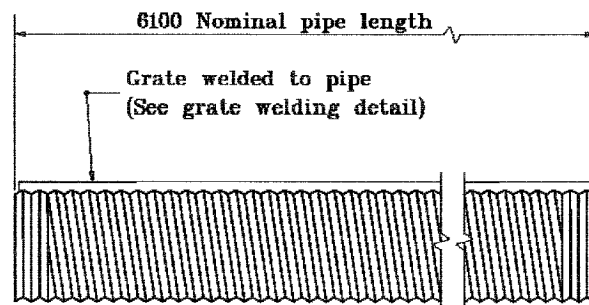
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	302A
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



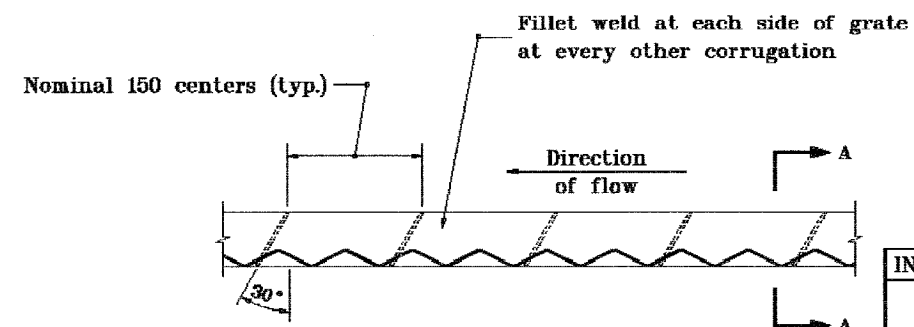
**MODIFIED HUGGER BAND
TOP VIEW**



**MODIFIED HUGGER BAND
SIDE VIEW**



TYPICAL PIPE SECTION



GRATE WELDING DETAIL

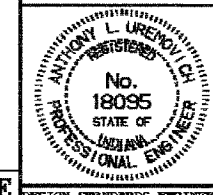
All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION

SLOTTED DRAIN PIPE

APRIL 1995

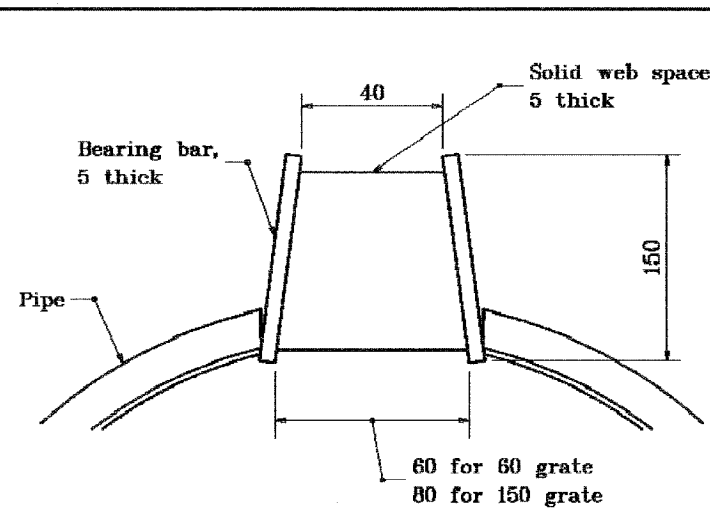
STANDARD DRAWING NO. 715-SLDR-01



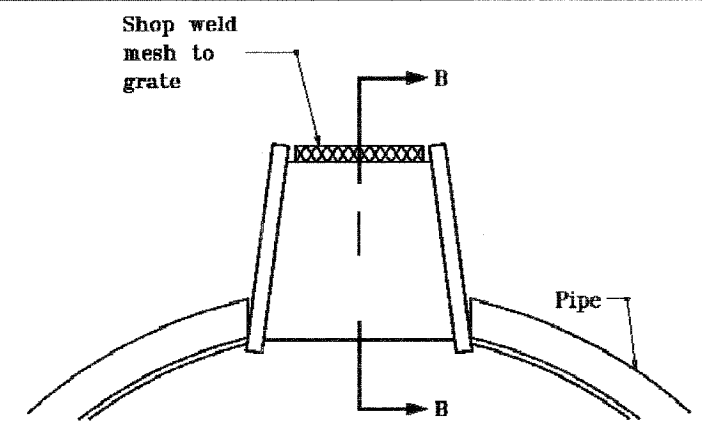
/s/ Anthony L. Uremovich 4-03-95
DESIGN STANDARDS ENGINEER DATE

/s/ Donald W. Lucas 4-03-95
CHIEF HIGHWAY ENGINEER DATE

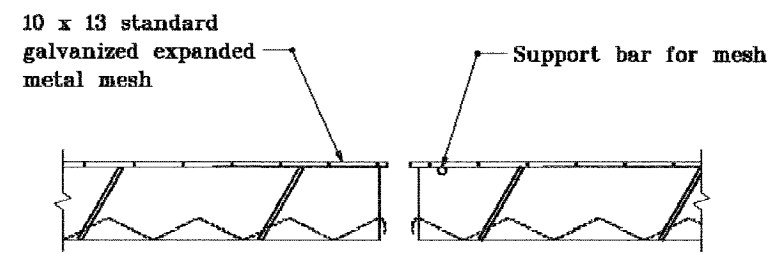
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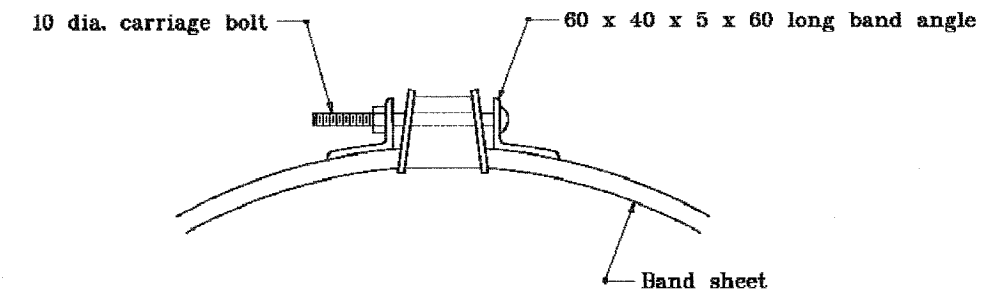
**SECTION A-A
STANDARD GRATE DETAIL**



**SECTION A-A
GRATE DETAIL WITH MESH**



SECTION B-B



SECTION C-C

STANDARD SIZES						
PIPE THICK-NESS	DIAMETER OF PIPE					
	300	375	450	600	750	900
1.63	X	X	X	X	X	X
2.01	X	X	X	X	X	X
2.77	N.A.	N.A.	N.A.	N.A.	X	X

X - Size available for designated thickness
 N.A. - Size not available for designated thickness

All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION

SLOTTED DRAIN PIPE

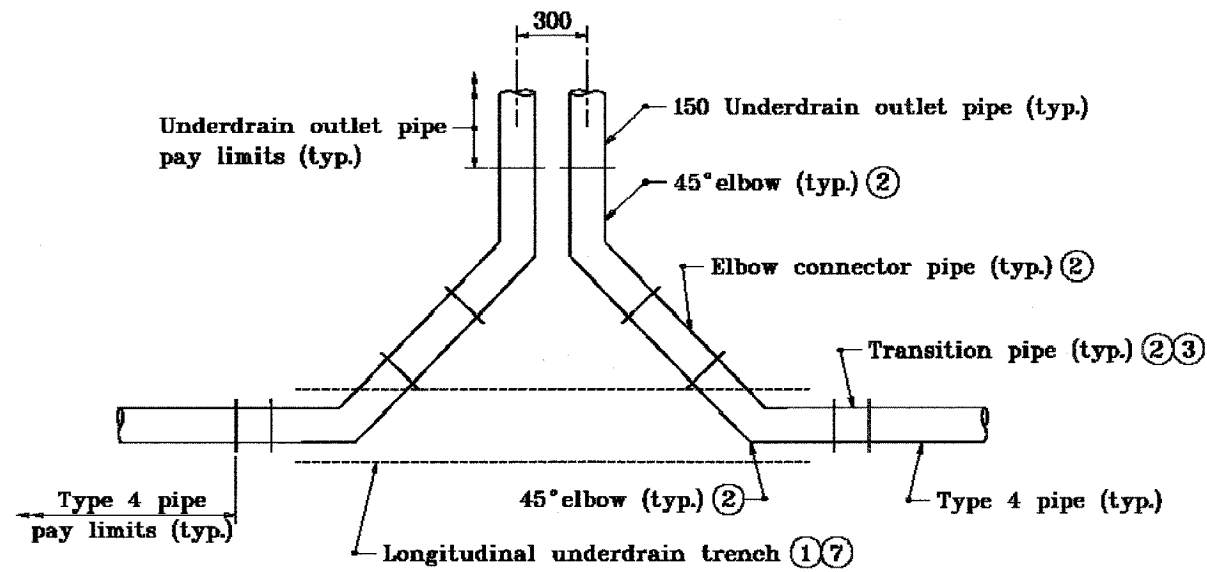
JANUARY 1998

STANDARD DRAWING NO. 715-SLDR-02

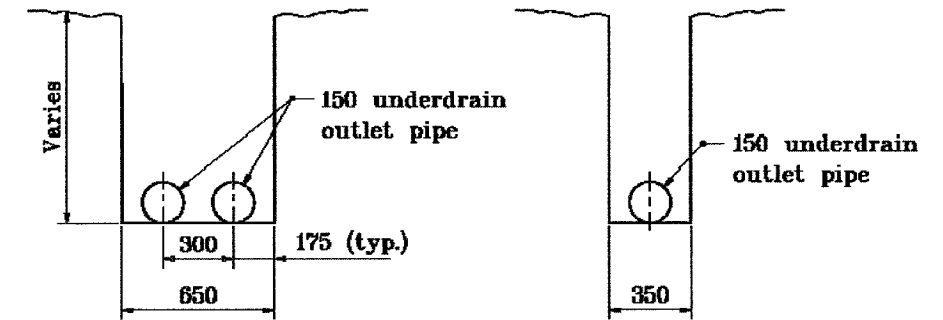
	/s/ Anthony L. Uremovich 1-02-98 DESIGN STANDARDS ENGINEER DATE
	/s/ Donald W. Lucas 1-02-98 CHIEF HIGHWAY ENGINEER DATE

Source Sheet: NONE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	303
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



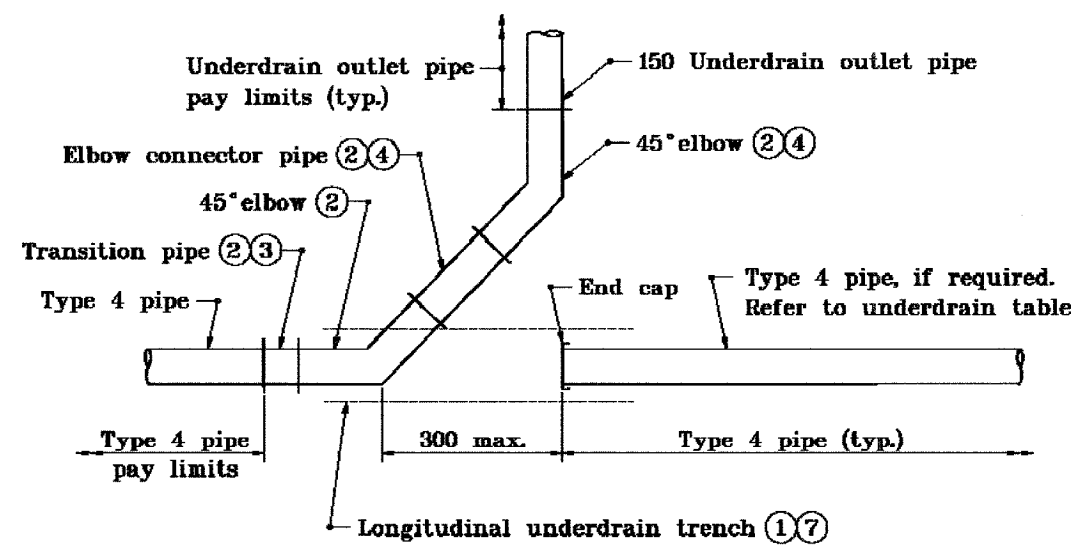
TWIN OUTLET DETAIL-PLAN VIEW



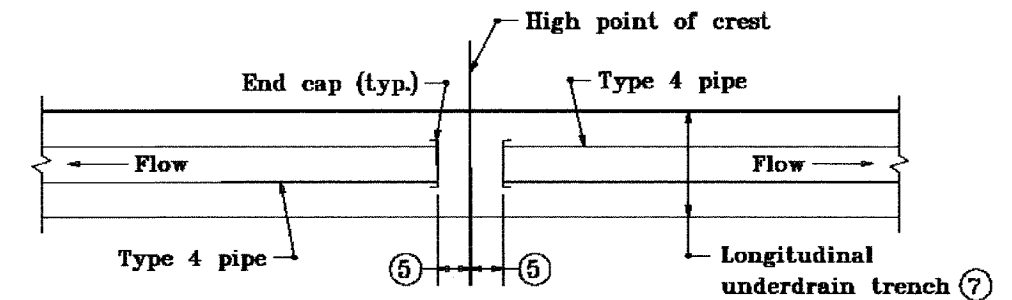
TWIN OUTLET DETAIL

SINGLE OUTLET DETAIL

OUTLET TRENCH DETAILS



SINGLE OUTLET DETAIL-PLAN VIEW

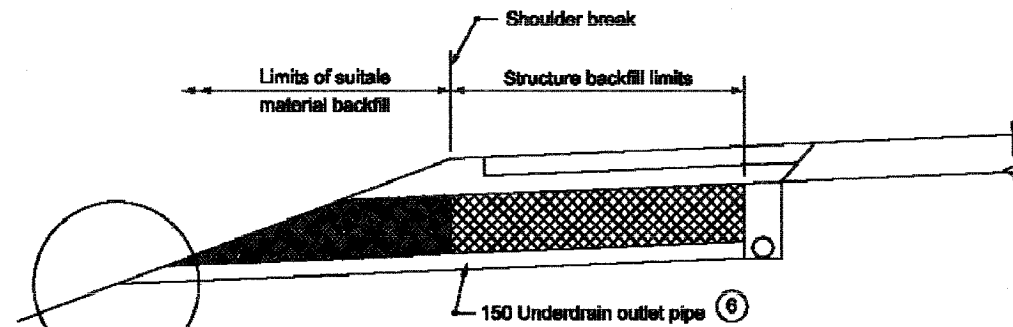


PLAN-INSTALLATION AT CREST

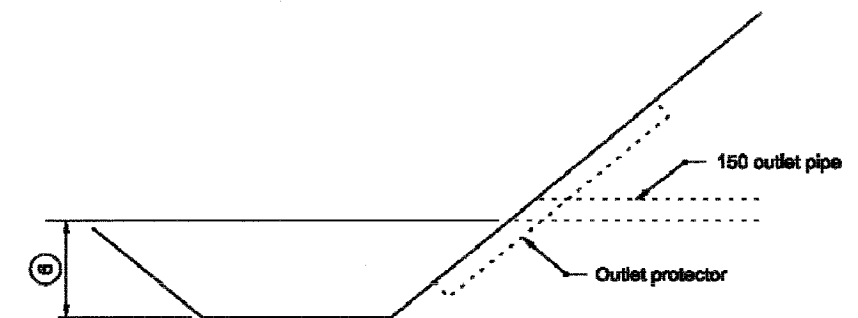
NOTE:
1. Standard Drawing 718-UNDR-07 for General Notes pertaining to this sheet.

All dimensions are in mm unless otherwise specified.

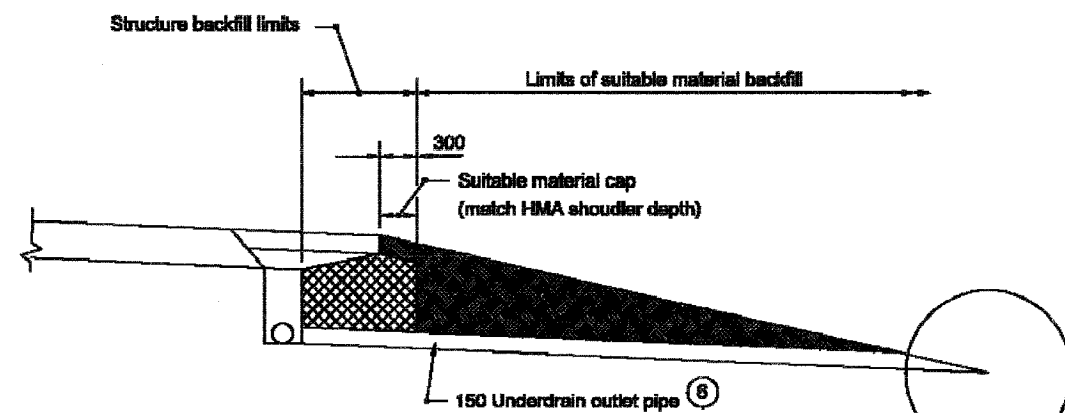
INDIANA DEPARTMENT OF TRANSPORTATION	
UNDERDRAIN DETAILS	
JANUARY 2000	
STANDARD DRAWING NO. 718-UNDR-01	
	/s/ Anthony L. Uremovich 1-03-00 DESIGN STANDARDS ENGINEER DATE
	/s/ Firooz Zandi 1-03-00 CHIEF HIGHWAY ENGINEER DATE



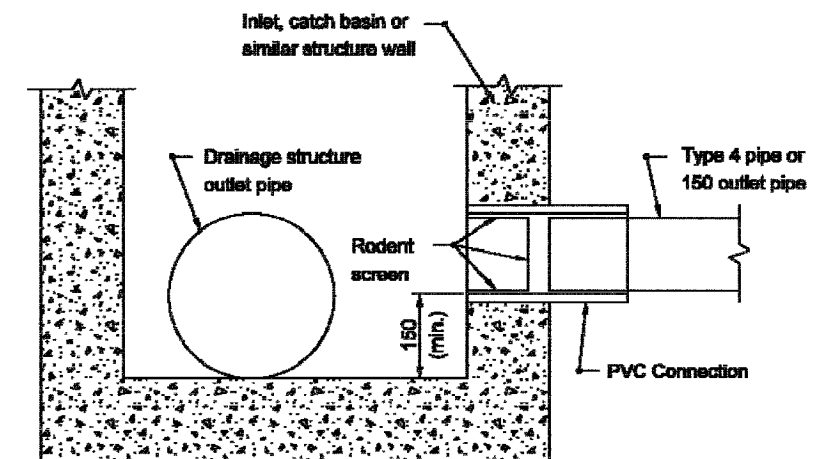
OUTSIDE SHOULDER INSTALLATIONS



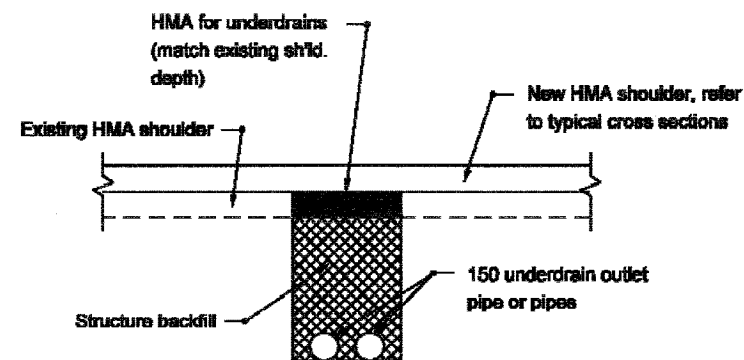
DITCH OUTLET DETAIL



MEDIAN SHOULDER INSTALLATIONS



DRAINAGE STRUCTURE OUTLET DETAIL



RETROFIT UNDERDRAIN OUTLET DETAIL (UNDER PAVED SHOULDER)

NOTE:

1. Standard Drawing 718-UNDR-07 for General Notes pertaining to this sheet.

All Dimension are in mm unless otherwise specified

INDIANA DEPARTMENT OF TRANSPORTATION									
UNDERDRAIN DETAILS									
MARCH 2003									
STANDARD DRAWING NO. 718-UNDR-02									
	<table border="0" style="width: 100%;"> <tr> <td style="width: 80%;">/s/ Anthony L. Uremowich</td> <td style="width: 20%;">3-03-03</td> </tr> <tr> <td>DESIGN STANDARDS ENGINEER</td> <td>DATE</td> </tr> <tr> <td style="width: 80%;">/s/ Richard K. Smutzer</td> <td style="width: 20%;">3-03-03</td> </tr> <tr> <td>CHIEF HIGHWAY ENGINEER</td> <td>DATE</td> </tr> </table>	/s/ Anthony L. Uremowich	3-03-03	DESIGN STANDARDS ENGINEER	DATE	/s/ Richard K. Smutzer	3-03-03	CHIEF HIGHWAY ENGINEER	DATE
/s/ Anthony L. Uremowich	3-03-03								
DESIGN STANDARDS ENGINEER	DATE								
/s/ Richard K. Smutzer	3-03-03								
CHIEF HIGHWAY ENGINEER	DATE								
DESIGN STANDARDS ENGINEER									

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	107	305
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID	PROJECT	
CONTRACT NO. 6314	INDOT DES.	NO. 0100987		

GENERAL NOTES

- ① Longitudinal underdrain trenches shall be cut continuously across all twin outlet areas and all single outlet areas that have an adjacent run of Type 4 pipe. These pipeless portions of longitudinal underdrain trench shall be backfilled with aggregate for underdrains.
- ② Transition pipe, 45° elbows, and elbow connector pipe shall be the same material as the underdrain outlet pipe.
- ③ If Type 4 pipe and underdrain outlet pipe are different sizes, an increaser of the same material as the underdrain outlet pipe shall be installed between the transition pipe and 45° elbow.
- ④ If a single outlet pipe is skewed 45°, only one 45° elbow is required. The second 45° elbow and elbow connector pipe are not required.
- ⑤ If underdrain run limits are not shown on Underdrain Table, use 150.
- ⑥ If underdrain outlet pipe elevations are not shown on Underdrain Table, the minimum outlet pipe slope shall be 0.3% and the minimum freeboard between the outlet pipe outfall and the ditch line shall be 300 for median ditches and 600 for side ditches.
- ⑦ The Type 4 pipe shall be installed in the longitudinal underdrain trench such that a minimum 50 clearance exists between the pipe and the trench wall.
- ⑧ See Standard Drawing 718-UNDR-06 for rodent screen details.
- ⑨ The outlet pipe or pipes shall be located as close as possible to the center of the outlet protector.
- ⑩ The #13 transverse bars in the upslope lug may be field cut to accomodate the outlet pipe or pipes. The 1304 bars in the upslope lug may be moved to accomodate the outlet pipe or pipes.

APPROXIMATE OUTLET PROTECTEOR QUANTITIES			
TYPE	CONCRETE, CLASS A (m ³)	REINFORCING STEEL (kg)	SODDING (m ²)
1	0.6	13.1	4.0
2	0.5	11.3	3.3
3	0.2	9.8	2.8

All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION

UNDERDRAIN NOTES

JANUARY 2001

STANDARD DRAWING NO. 718-UNDR-07



/s/ Anthony L. Uremovich 1-02-01
DESIGN STANDARDS ENGINEER DATE

/s/ Ferooz Zandi 1-02-01
CHIEF HIGHWAY ENGINEER DATE

Str.	Type	Casting Types													
		2	3	4	5	6	7	8	10	12	12A	13	14	15	
Catch Basins	A	X	X					X							
	D					X									
	E						X								
	J								X						
	K								X						
	S												X		
	W ^①	X	X						X						
Inlets	A	X	X					X							
	B													X	
	C													X	
	D					X									
	E						X								
	F						X								
	G						X								
	H, HA				X										
	J								X						
	M								X						
	N									X	X				
	P										X				
	R											X			
S												X			
T												X			
Manholes	A	X		X				X							
	B	X		X				X							
	C ^②	X		X				X							
	D	X		X				X							
	E	X		X				X							
	F	X		X				X							
	G	X		X				X							
	H	X		X				X							
	J	X		X				X							
	K	X		X				X							
	L	X		X				X							
M	X		X				X								
N	X		X				X								

- NOTES**
- ① May be substituted for catch basin type A.
 - ② May be substituted for manhole type A or B.


All dimensions are in mm unless otherwise specified

INDIANA DEPARTMENT OF TRANSPORTATION

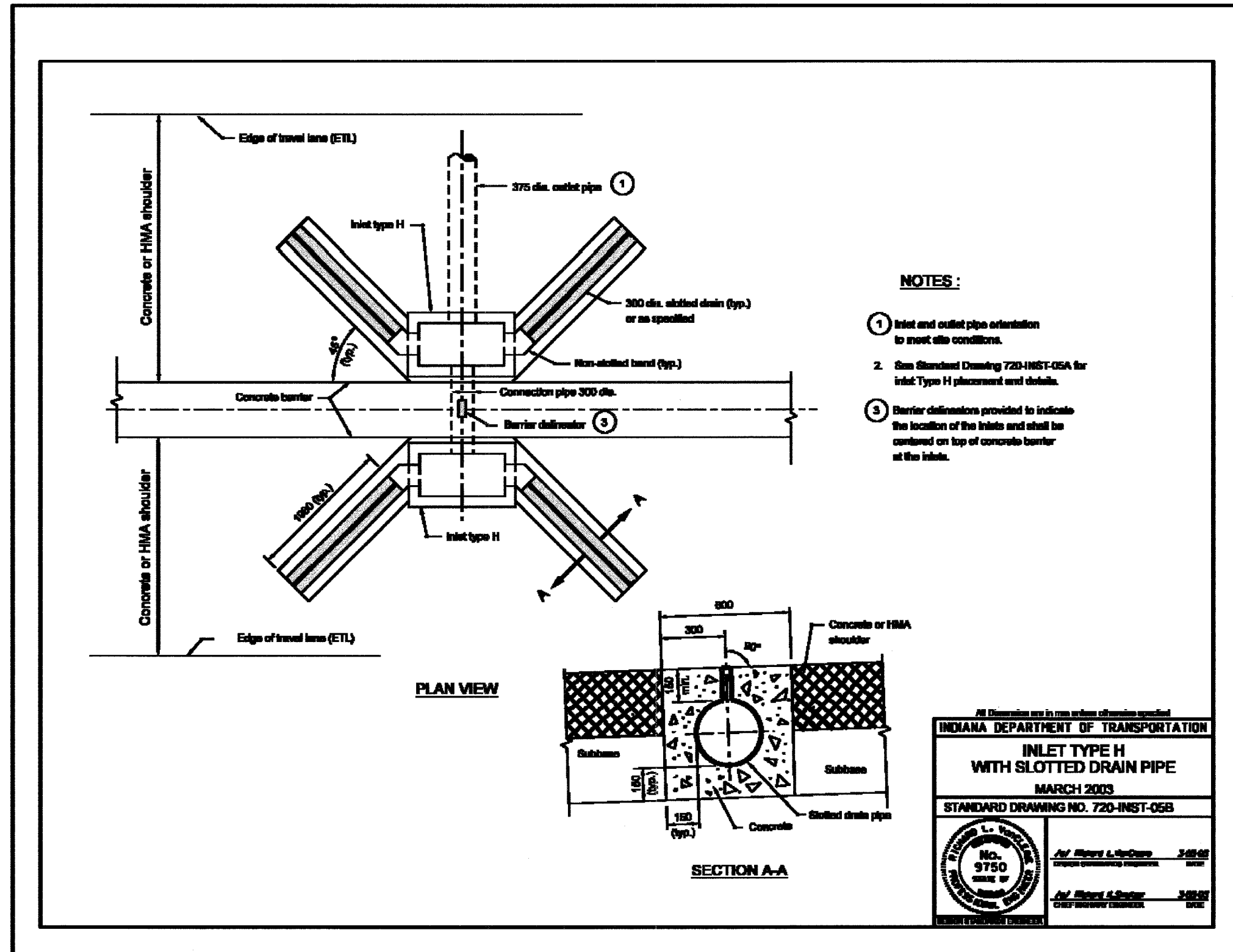
COMPATIBILITY OF DRAINAGE STRUCTURES AND CASTINGS

MARCH 2005

STANDARD DRAWING NO. 720-CDSC-01

	/s/ Richard L. Forciani REGISTERED PROFESSIONAL ENGINEER	3/05 DATE
	/s/ Richard K. Sauter CHIEF HIGHWAY ENGINEER	3/05 DATE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	308
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



All Dimensions are in mm unless otherwise specified

INDIANA DEPARTMENT OF TRANSPORTATION

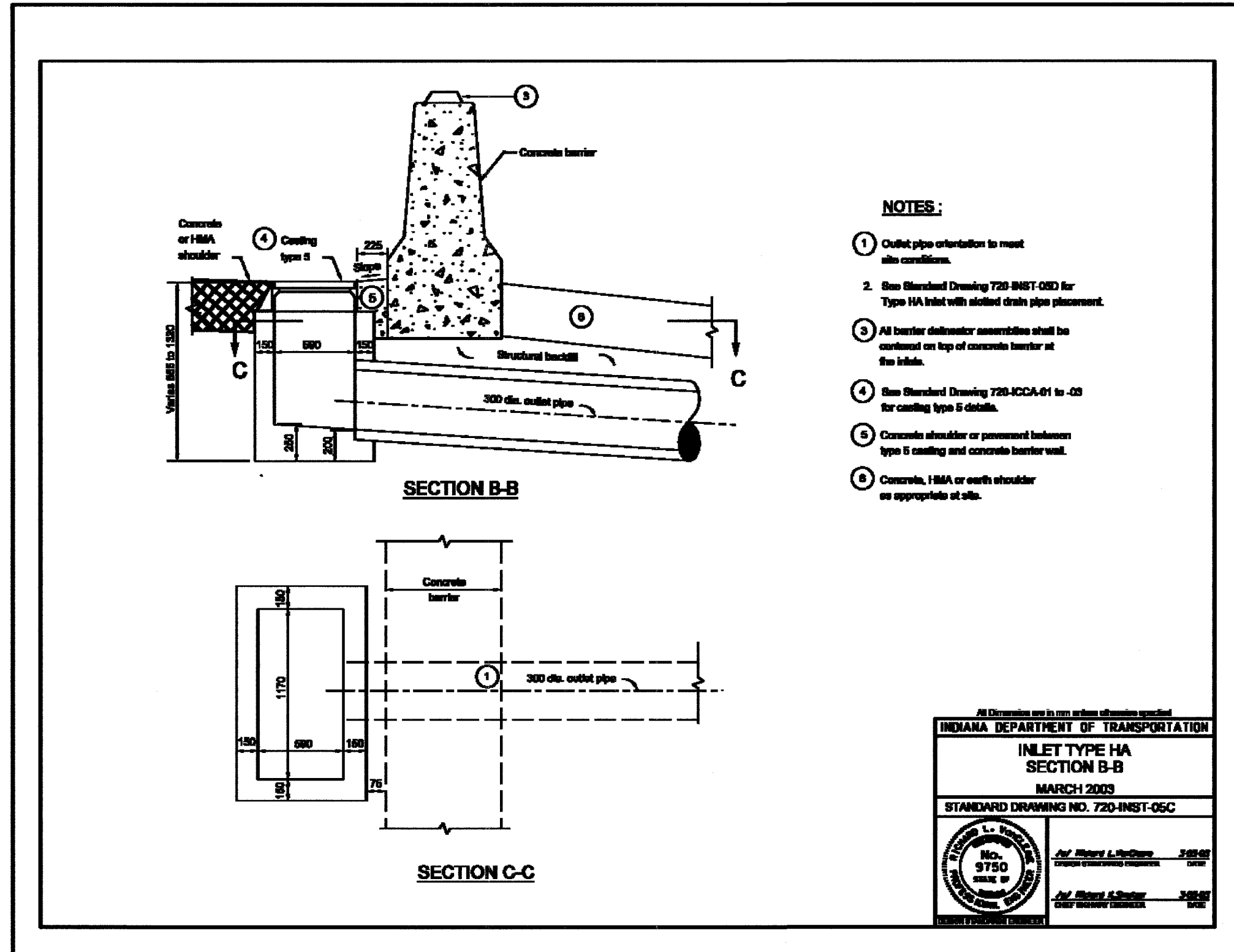
INLET TYPE H WITH SLOTTED DRAIN PIPE

MARCH 2003

STANDARD DRAWING NO. 720-INST-05B

	<i>Richard L. Woodruff</i> No. 9750 STATE OF INDIANA PROFESSIONAL ENGINEER	<i>Mark L. Woodruff</i> 3/2003 DESIGN CONSULTING ENGINEER
	<i>Mark L. Woodruff</i> 3/2003 CHIEF ENGINEER	<i>Mark L. Woodruff</i> 3/2003 CHIEF ENGINEER

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	309
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



NOTES:

- ① Outlet pipe orientation to meet site conditions.
- ② See Standard Drawing 720-INST-05D for Type HA inlet with slotted drain pipe placement.
- ③ All barrier delineator assemblies shall be centered on top of concrete barrier at the inlet.
- ④ See Standard Drawing 720-ICCA-01 to -03 for casting type 5 details.
- ⑤ Concrete shoulder or pavement between type 5 casting and concrete barrier wall.
- ⑥ Concrete, HMA or earth shoulder as appropriate at site.

All Dimensions are in mm unless otherwise specified

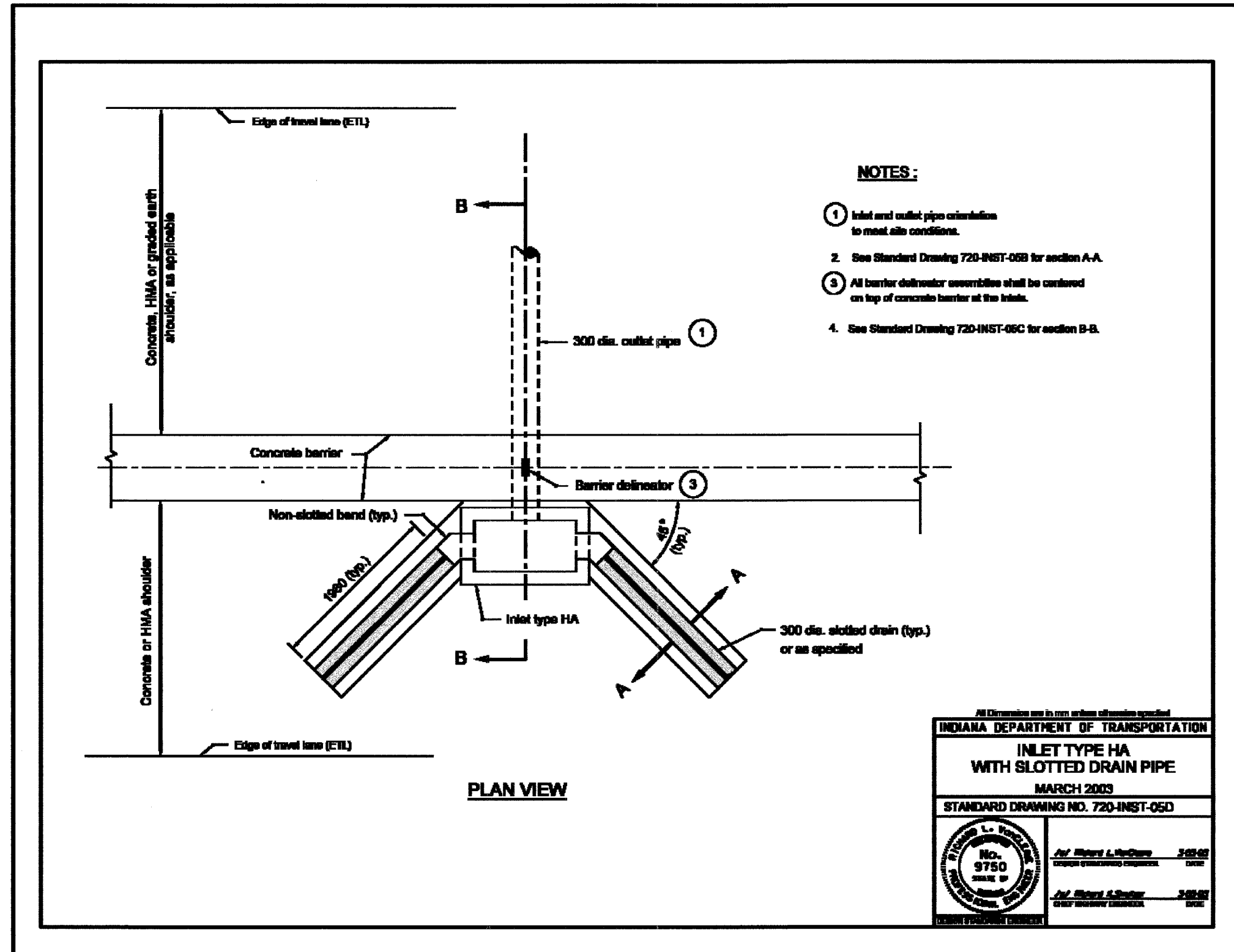
INDIANA DEPARTMENT OF TRANSPORTATION

INLET TYPE HA
SECTION B-B
MARCH 2003

STANDARD DRAWING NO. 720-INST-05C

	<i>Richard L. Foschler</i> <small>REGISTERED PROFESSIONAL ENGINEER</small> <small>DATE:</small>
	<i>Richard L. Foschler</i> <small>CHIEF ENGINEER</small> <small>DATE:</small>

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	310
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



All Dimensions are in mm unless otherwise specified

INDIANA DEPARTMENT OF TRANSPORTATION

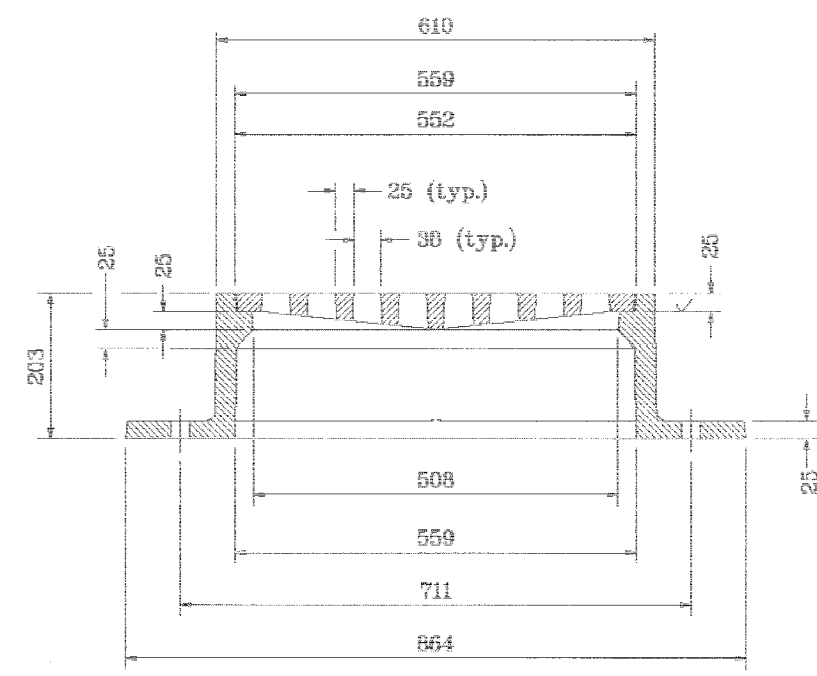
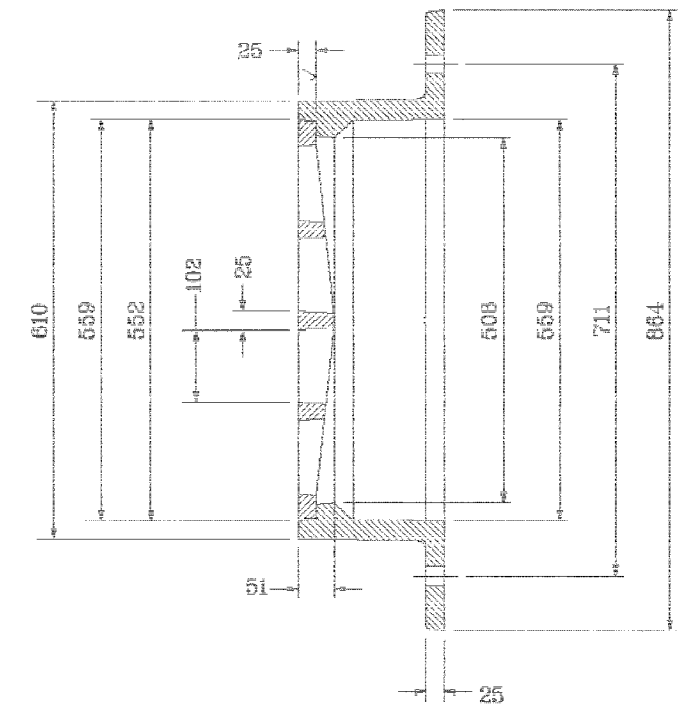
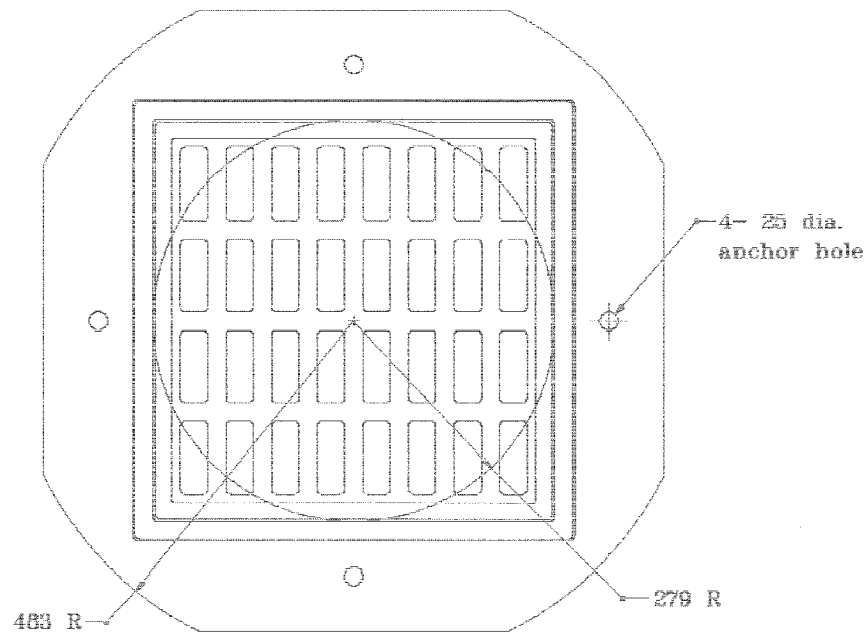
**INLET TYPE HA
WITH SLOTTED DRAIN PIPE**

MARCH 2003

STANDARD DRAWING NO. 720-INST-05D

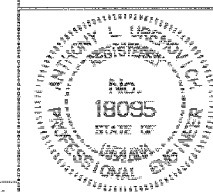
	<i>Richard L. Fong</i> No. 9750 STATE OF INDIANA PROFESSIONAL ENGINEER	<i>John L. McQuinn</i> 3-03-03 DESIGN ENGINEER
	<i>John L. McQuinn</i> 3-03-03 CHIEF ENGINEER	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	311
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION
FLAT TOP GRATE CASTING
TYPE 2
 SEPTEMBER 1998
 STANDARD DRAWING NO. 720-MHCA-01

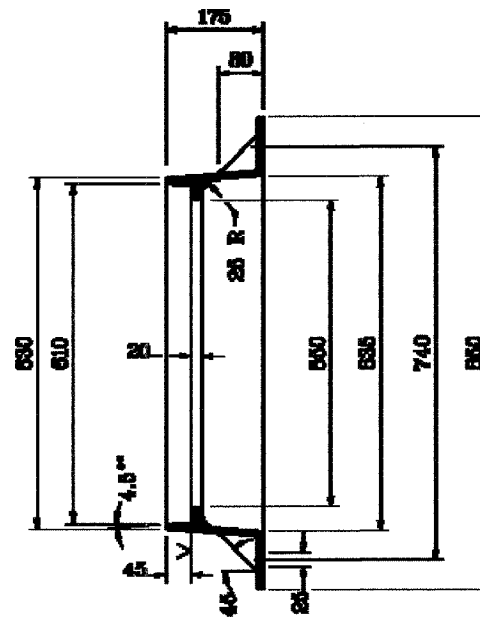
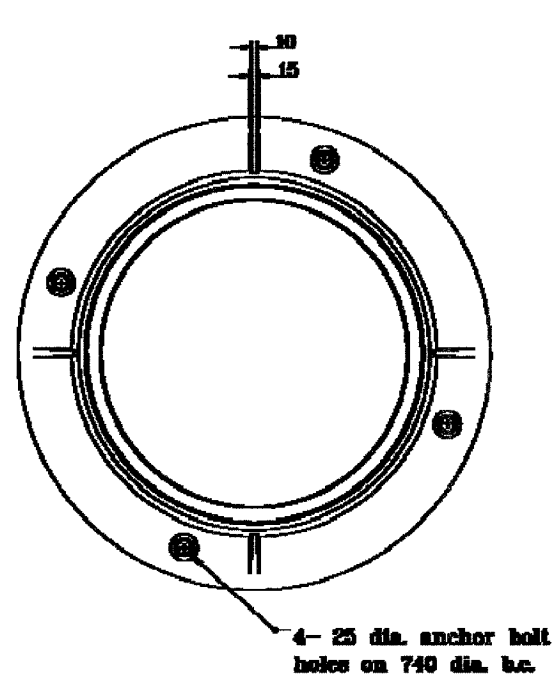
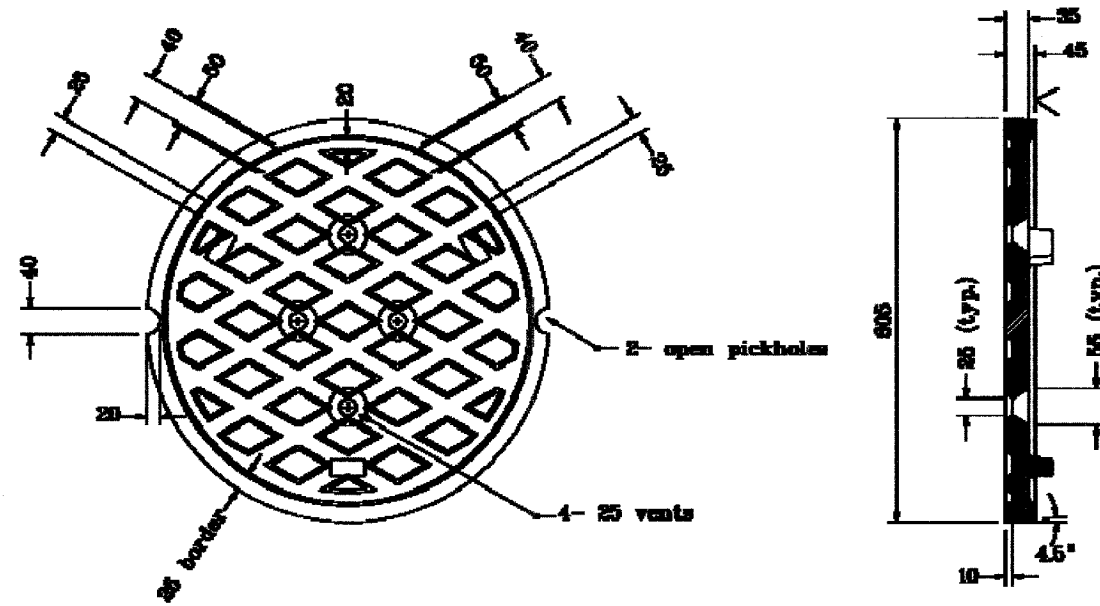


/s/ Anthony L. Uremovich 9-01-98
 DESIGN STANDARDS ENGINEER DATE

/s/ Donald W. Lucas 9-01-98
 CHIEF HIGHWAY ENGINEER DATE

Source Sheet: MC4

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	312
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION
MANHOLE CASTING
TYPE 4 RING AND COVER
 SEPTEMBER 1995
 STANDARD DRAWING NO. 720-MHCA-02

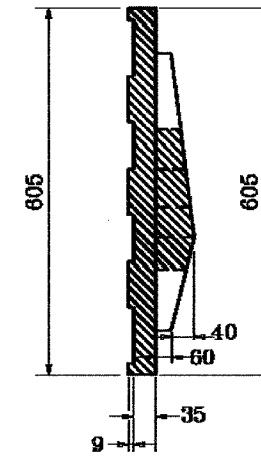
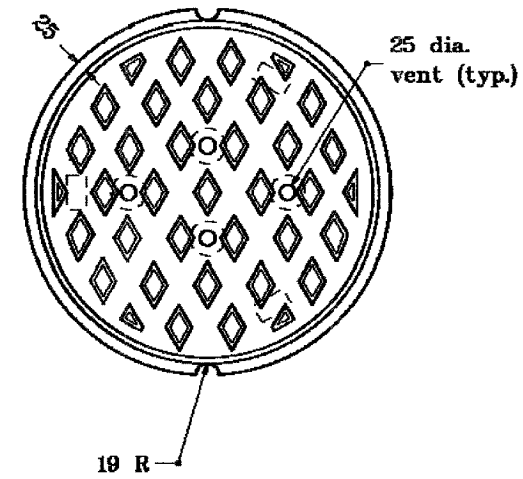
ANTHONY L. LIBERTY
 No. 18095
 ENGINEER

Anthony L. Hummel P-01-95
 SENIOR CIVIL ENGINEER

Ronald E. Leans P-01-95
 CIVIL ENGINEER

Source Sheet: MCA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	313
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. D100987		



All dimensions are in mm unless otherwise specified.

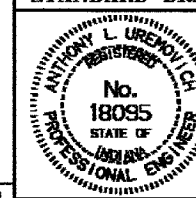
INDIANA DEPARTMENT OF TRANSPORTATION

MANHOLE CASTING TYPE 4

ALTERNATE COVER

SEPTEMBER 1998

STANDARD DRAWING NO. **720-MHCA-03**

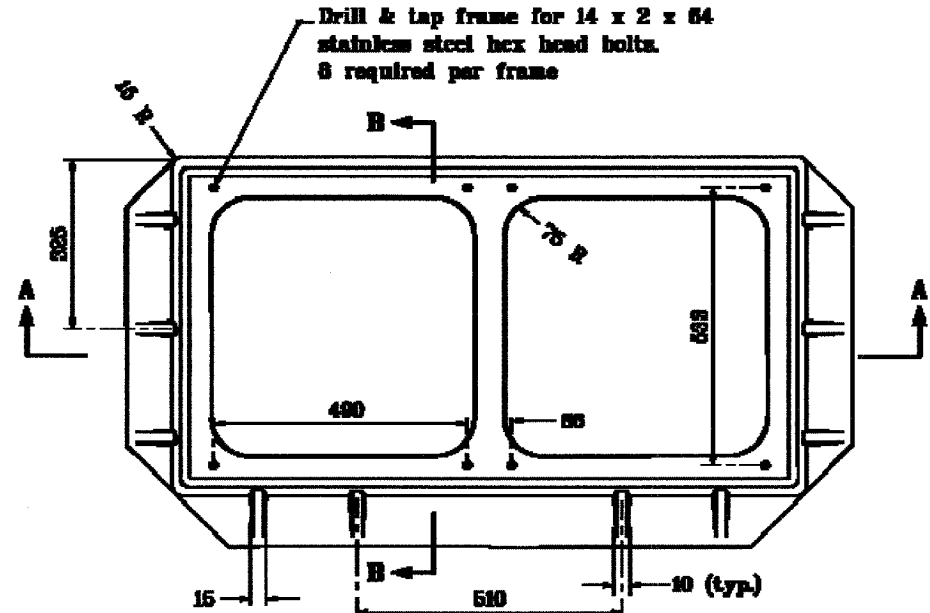


/s/ Anthony L. Uremovich 9-07-98
DESIGN STANDARDS ENGINEER DATE

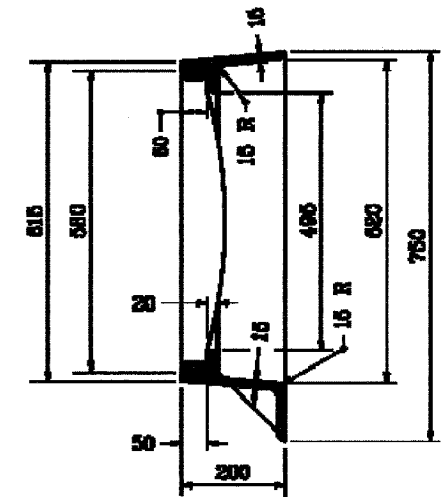
/s/ Donald W. Lucas 9-07-98
CHIEF HIGHWAY ENGINEER DATE

Source Sheet: **MC4**

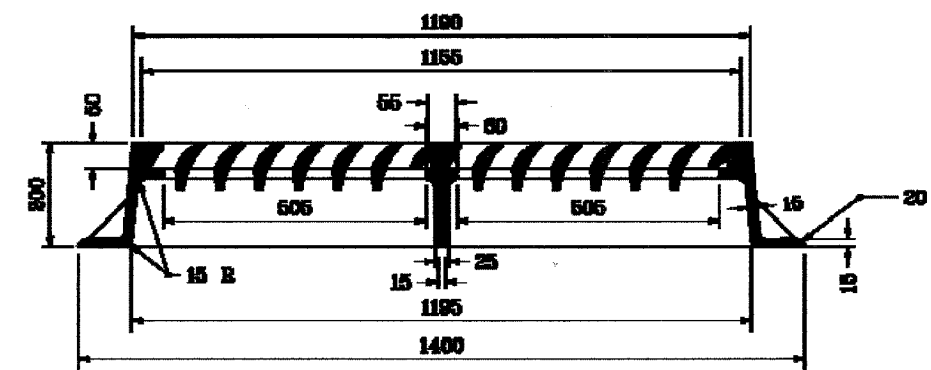
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	314
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



PLAN



SECTION B-B



SECTION A-A

All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION

CASTING TYPE 5

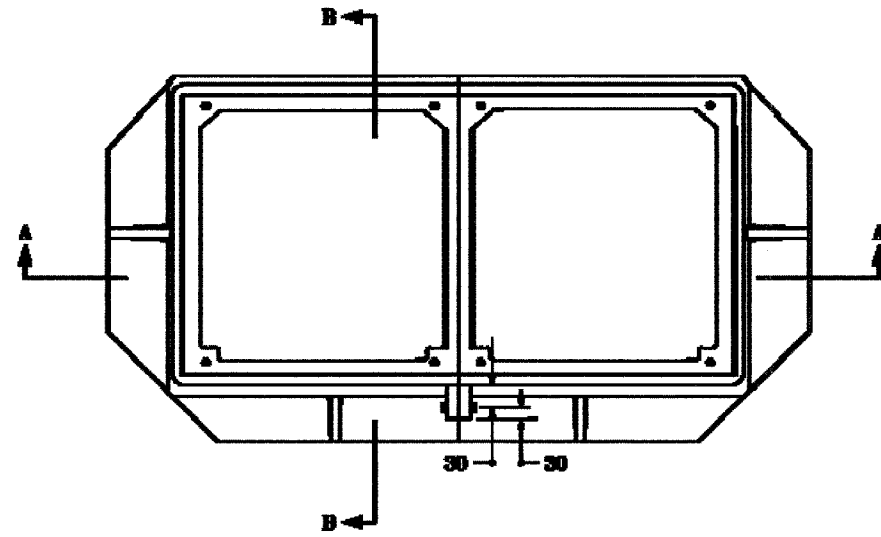
FRAME

SEPTEMBER 2001

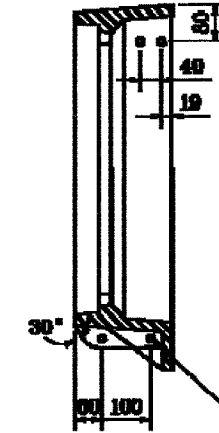
STANDARD DRAWING NO. 720-ICCA-01

	/s/ Anthony L. Grunwald 9-01-01 DESIGN SURVEILLANCE ENGINEER
	/s/ Frank Smith 9-01-01 CHIEF SURVEILLANCE ENGINEER

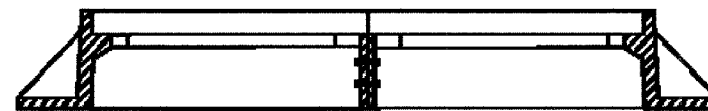
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	314A
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



PLAN



SECTION B-B



SECTION A-A

All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION

CASTING TYPE 5

ALTERNATE BOLTED FRAME

SEPTEMBER 2001

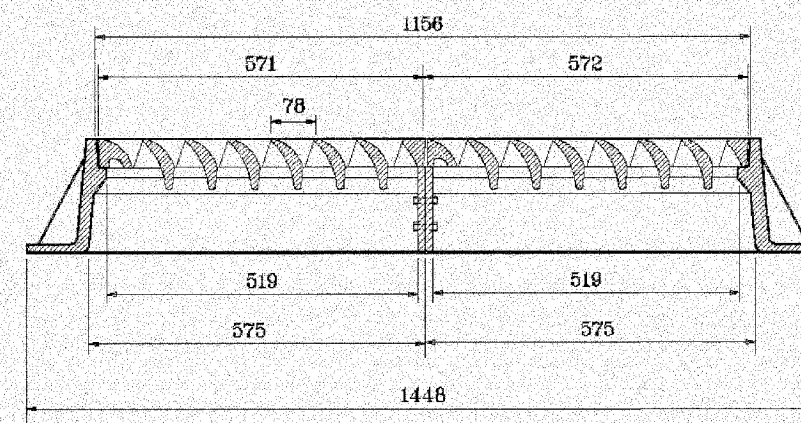
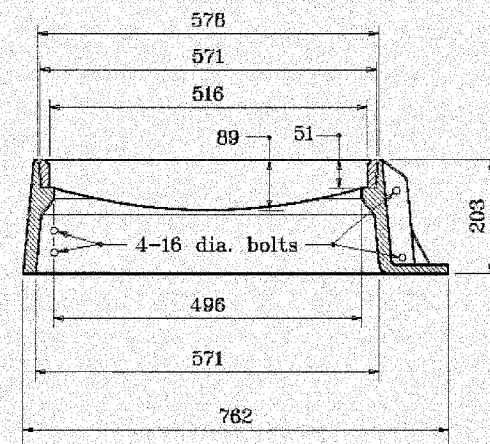
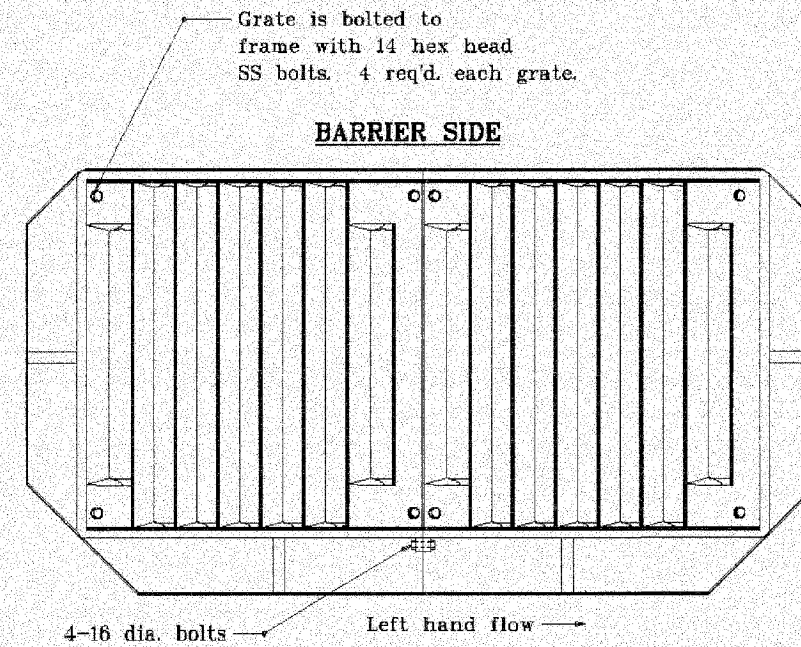
STANDARD DRAWING NO. 720-KCA-02



Anthony L. Emanuel 8-01-01
DESIGN CHIEF ENGINEER

Frank Smith 8-01-01
DESIGN CHIEF ENGINEER

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	314B
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



**FRAME AND GRATE
CASTING TYPE 5 (ALTERNATE)**

All dimensions are in mm unless otherwise specified.

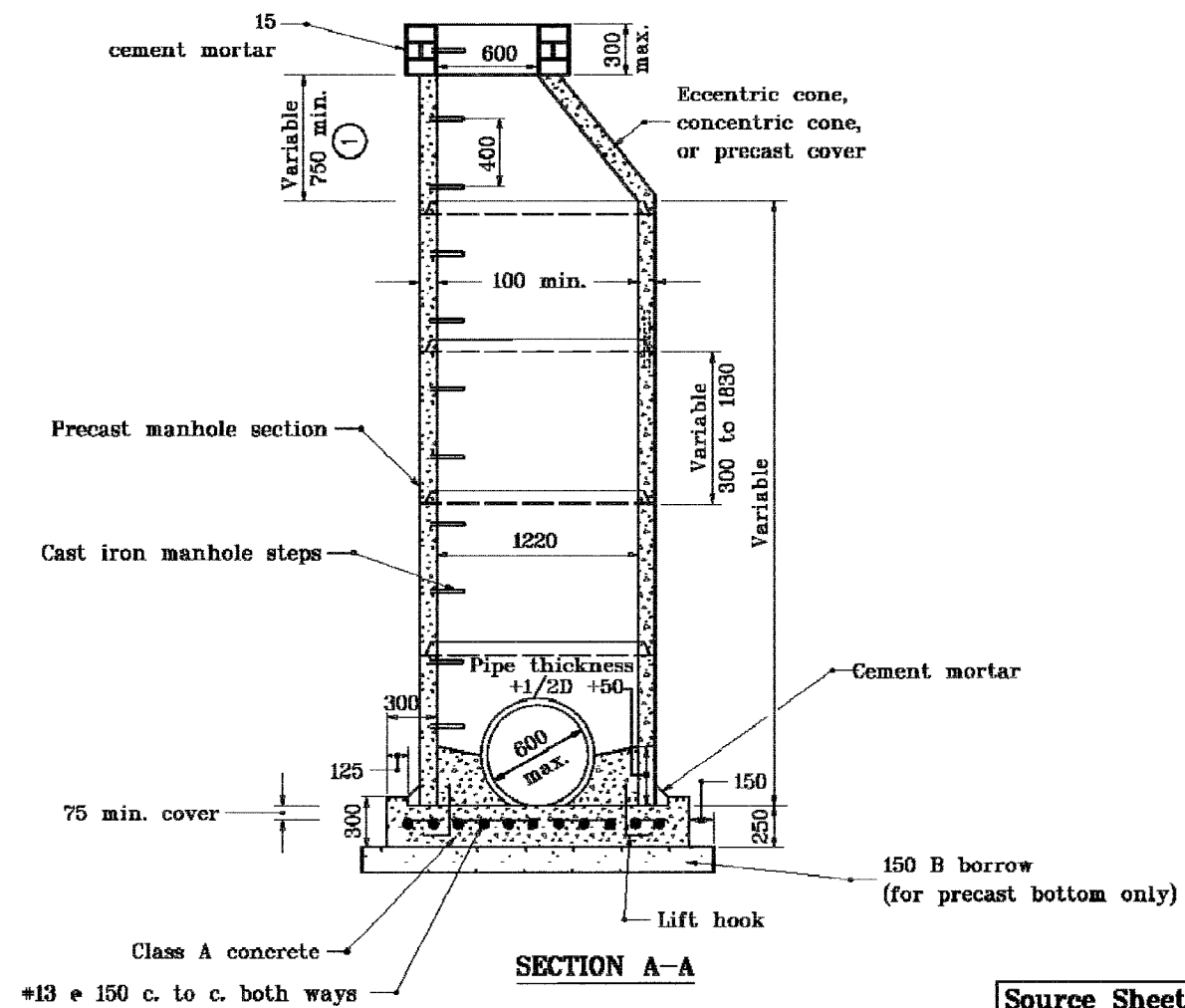
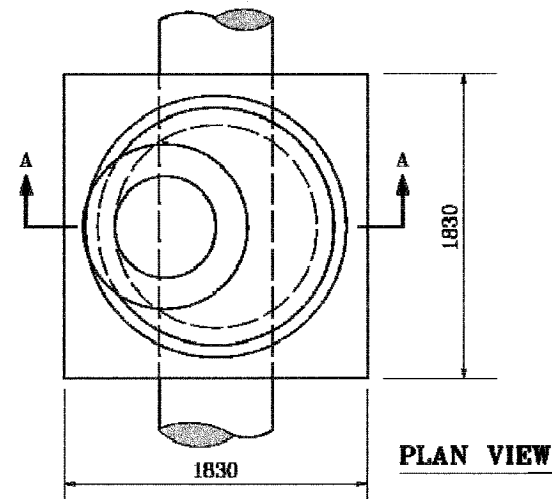
INDIANA DEPARTMENT OF TRANSPORTATION
CASTING TYPE 5 (ALTERNATE)
FRAME AND GRATE
 SEPTEMBER 2001
 STANDARD DRAWING NO. 720-ICCA-03

	/s/ Anthony L. Uremovich 9-04-01 DESIGN STANDARDS ENGINEER DATE
	/s/ Pirooz Zandi 9-04-01 CHIEF HIGHWAY ENGINEER DATE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	315
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

GENERAL NOTES

- ① For eccentric and concentric cone heights see cone heights table on Standard Drawing 720-MHST-08.

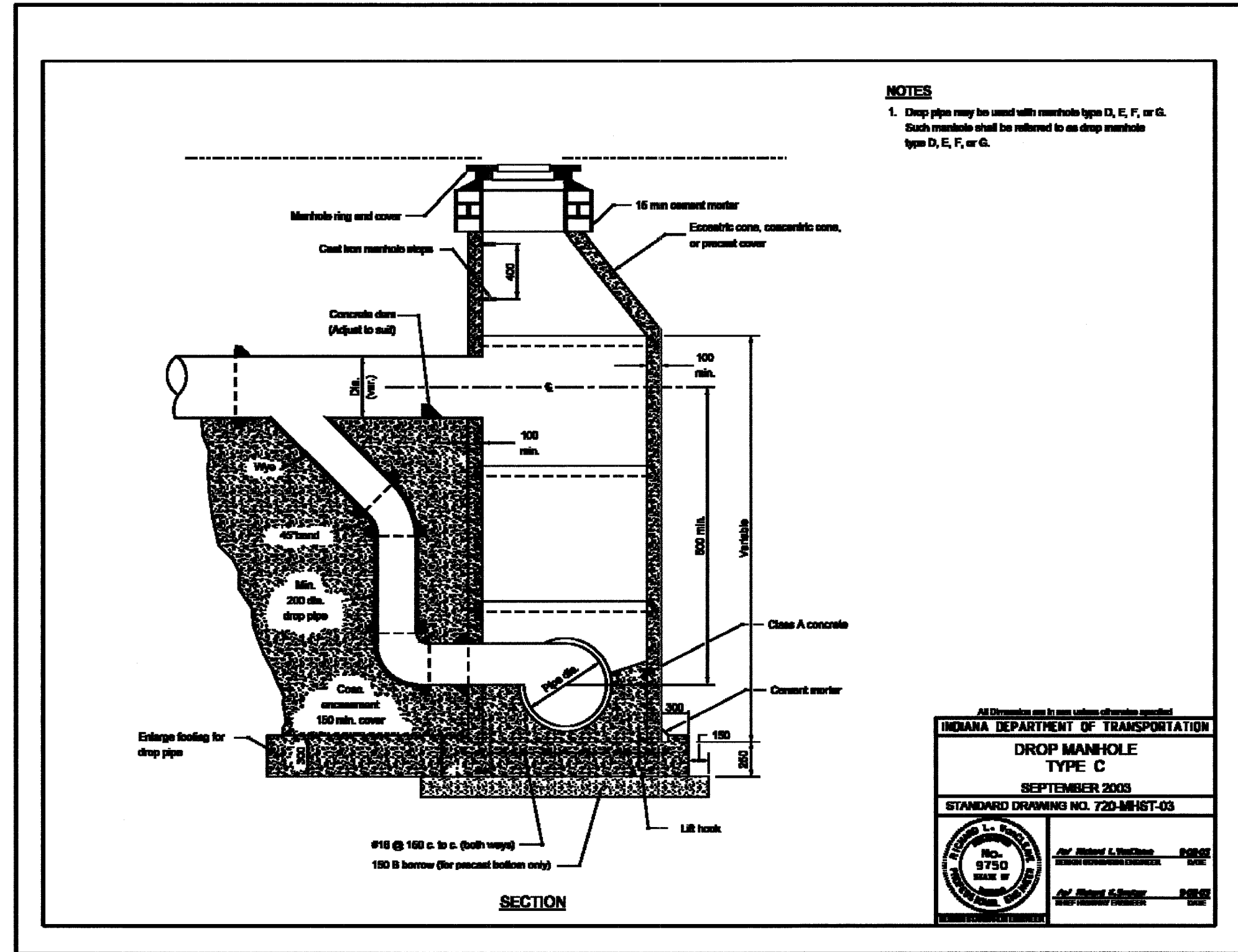


All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION	
MANHOLE TYPE C	
SEPTEMBER 1997	
STANDARD DRAWING NO. 720-MHST-02	
	/s/ Anthony L. Uremovich 9-01-97 DESIGN STANDARDS ENGINEER DATE
	/s/ Donald W. Lucas 9-01-97 CHIEF HIGHWAY ENGINEER DATE

Source Sheet: MD3

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	316
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



NOTES
 1. Drop pipe may be used with manhole type D, E, F, or G. Such manhole shall be referred to as drop manhole type D, E, F, or G.

All Dimensions are in mm unless otherwise specified

INDIANA DEPARTMENT OF TRANSPORTATION

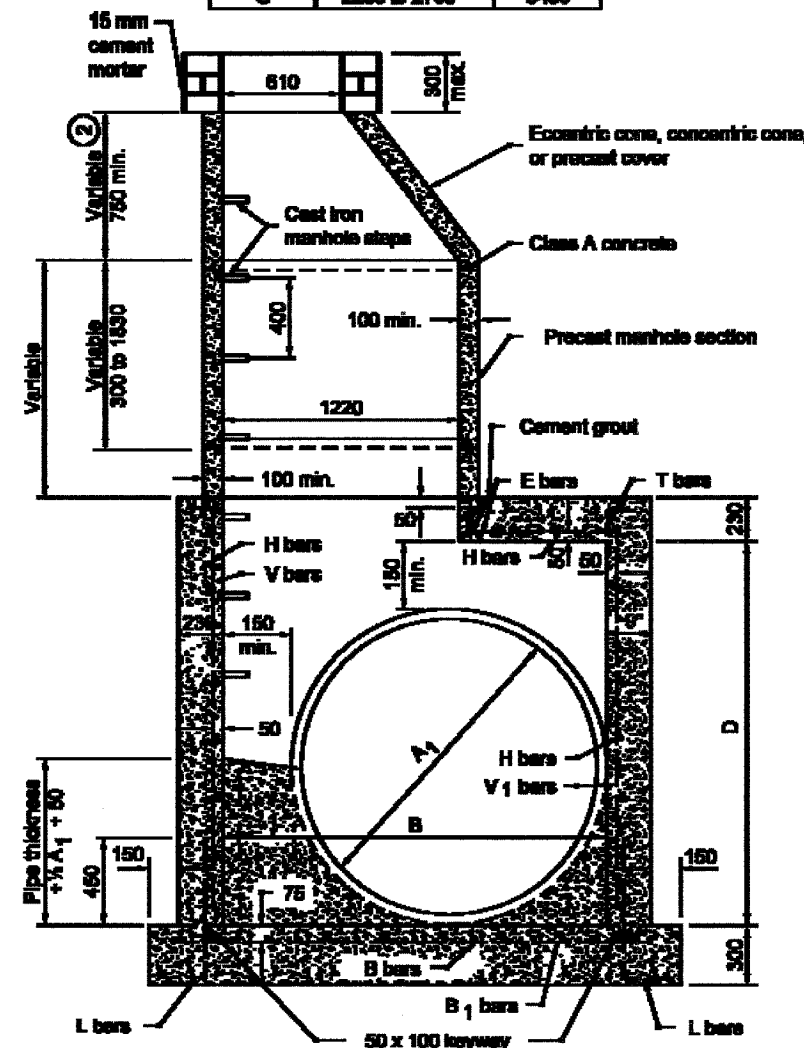
DROP MANHOLE TYPE C

SEPTEMBER 2003

STANDARD DRAWING NO. 720-MH1ST-03

	<i>Richard L. Vucelja</i> DESIGN ENGINEER DATE
	<i>Robert C. Sauer</i> SENIOR ENGINEER DATE

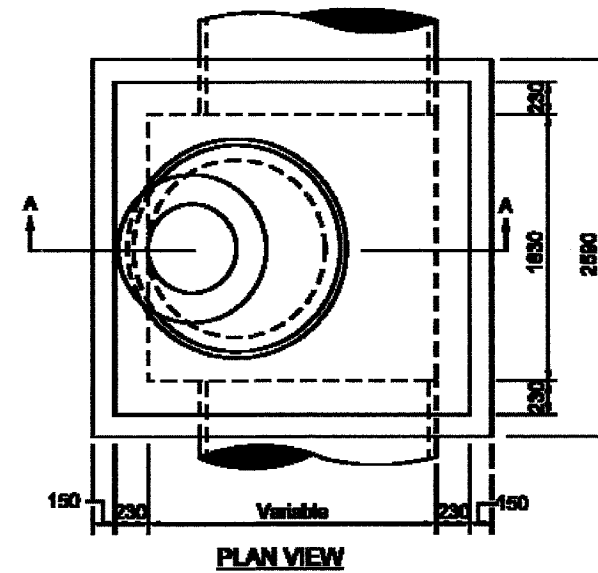
MANHOLE DIMENSIONS		
TYPE	A-1 PIPE SIZE DIA. (in)	B AND D
D	675 to 1050	1450
E	1200 to 1500	1980
F	1850 to 2100	2580
G	2250 to 2700	3400



SECTION A-A

NOTES

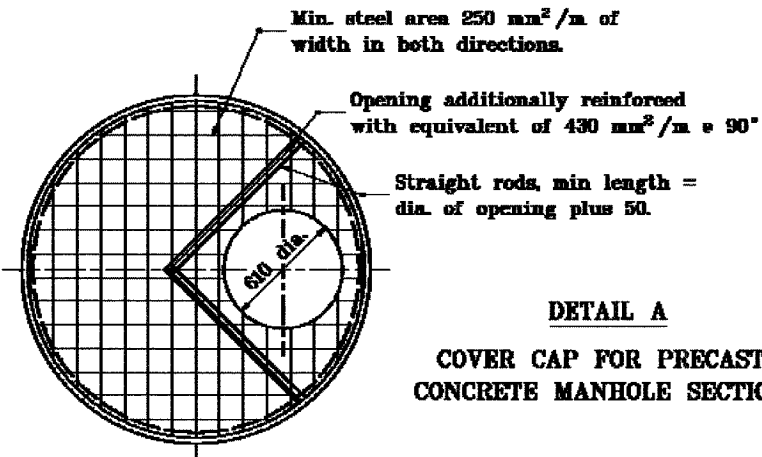
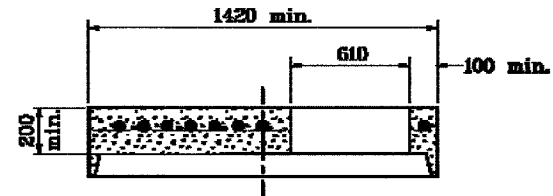
- Manhole type H, J, K, L, M, or N, may be substituted for manholes type C, D, E or F for comparable pipe sizes. See Standard Drawing 720-MHST-05 for manholes type H, J, K, L, M, and N details.
- For eccentric and concentric cone heights see Cone Heights Table on Standard Drawing E 720-MHST-08.
- See Standard Drawing E 720-MHST-10 for Reinforcing Steel for Manholes table.



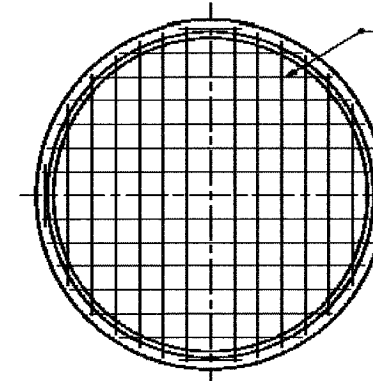
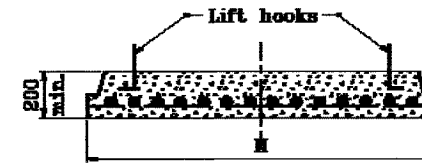
PLAN VIEW

All Dimensions are in mm unless otherwise specified

INDIANA DEPARTMENT OF TRANSPORTATION	
MANHOLES	
TYPE D, E, F, AND G	
SEPTEMBER 2003	
STANDARD DRAWING NO. 720-MHST-04	
	Mr. Michael L. Voth 2003 <small>DESIGN ENGINEER</small> <small>DATE</small>
	Mr. Henry K. Suter 2003 <small>DESIGN ENGINEER</small> <small>DATE</small>

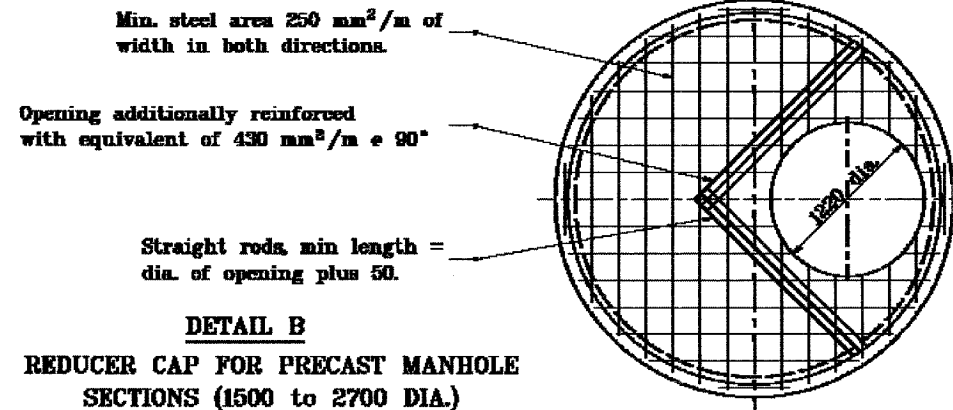
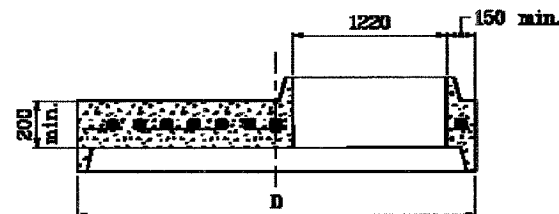


DETAIL A
COVER CAP FOR PRECAST
CONCRETE MANHOLE SECTION



DETAIL C
BASE FOR PRECAST
CONCRETE MANHOLE SECTIONS
(1500 to 2700 DIA.)

Section Dia.	H
1530	1830
1830	2190
2440	2900
2590	3080
2740	3250



DETAIL B
REDUCER CAP FOR PRECAST MANHOLE
SECTIONS (1500 to 2700 DIA.)

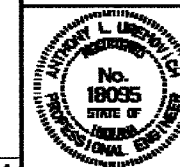
Section Dia.	D
1530	1830
1830	2190
2440	2900
2590	3080
2740	3250

Source Sheet: MD4

All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION
PRECAST CONCRETE MANHOLE
SECTIONS
APRIL 1995

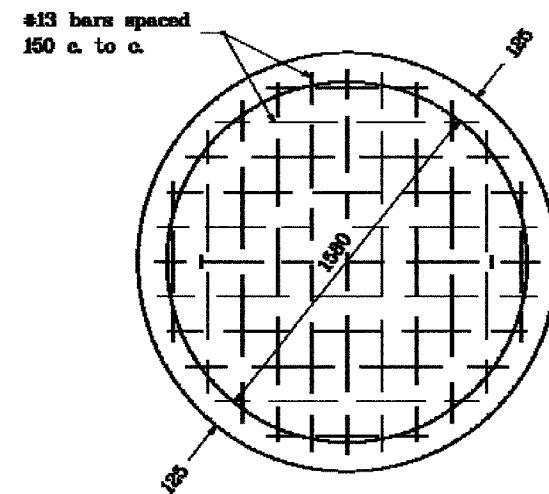
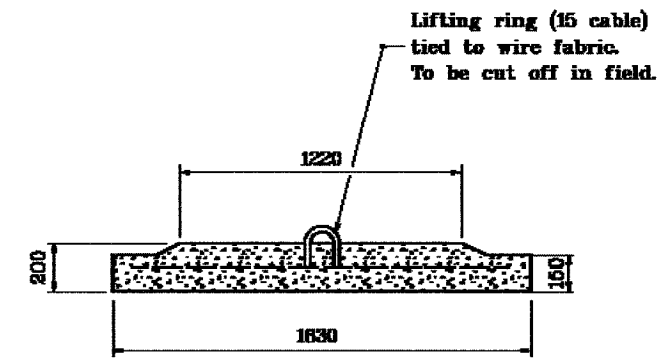
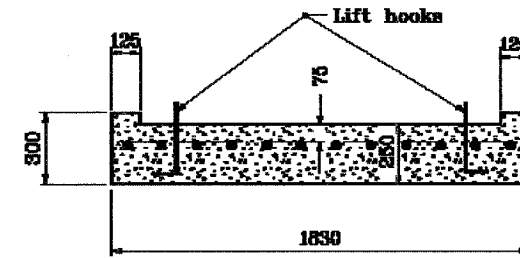
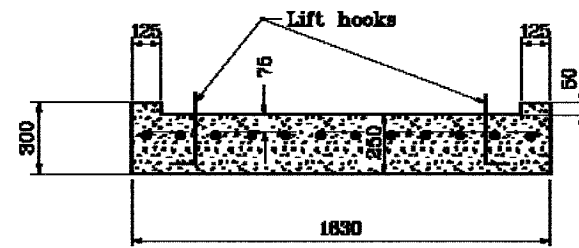
STANDARD DRAWING NO. 720-MHST-06



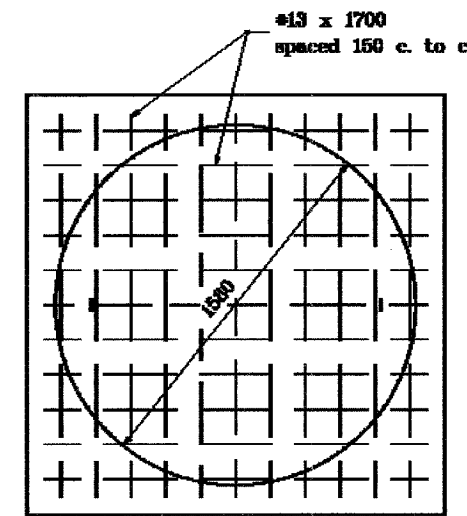
/s/ Anthony L. Urzavitch 4/03/95
DESIGN REGISTERED ENGINEER DATE

/s/ Donald V. Evans 4/03/95
CHIEF REGISTERED ENGINEER DATE

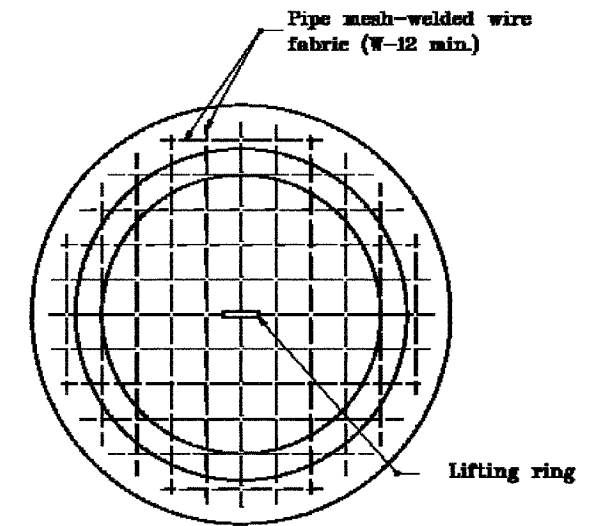
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	319
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



ROUND



SQUARE

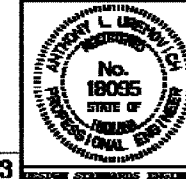


ROUND ALTERNATE

All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION
PRECAST MANHOLE
BOTTOM SECTION
 SEPTEMBER 1997

STANDARD DRAWING NO. 720-MHST-07

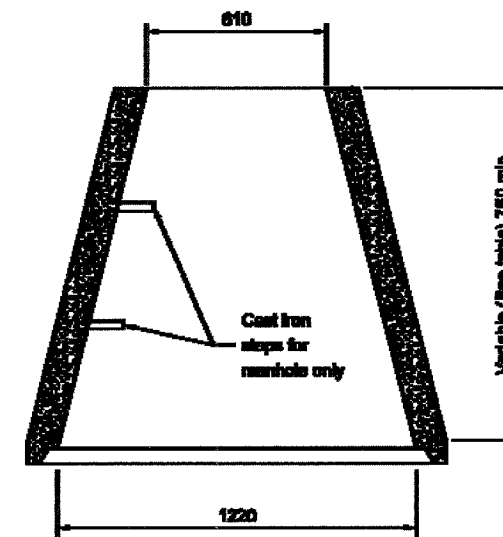


/s/ Anthony L. Urzavotok 9-01-97
 REGISTERED PROFESSIONAL ENGINEER DATE

/s/ Donald W. Evans 9-01-97
 CHIEF HIGHWAY ENGINEER DATE

Source Sheet: MDS

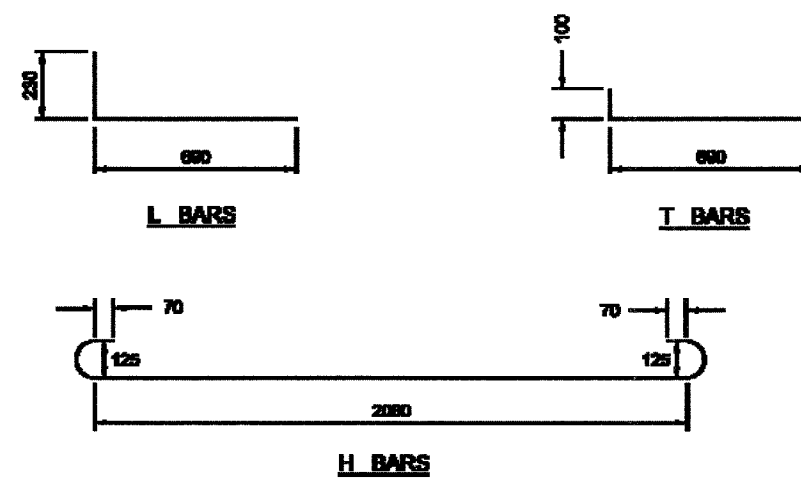
CONE HEIGHTS	
ECCENTRIC	CONCENTRIC
760	760
820	820
870	870
760	1220



CONCENTRIC CONE

NOTES

1. The concentric concrete section will not be permitted for manholes which are under the jurisdiction of the Indianapolis Sanitary District.



All Dimensions are in mm unless otherwise specified

INDIANA DEPARTMENT OF TRANSPORTATION

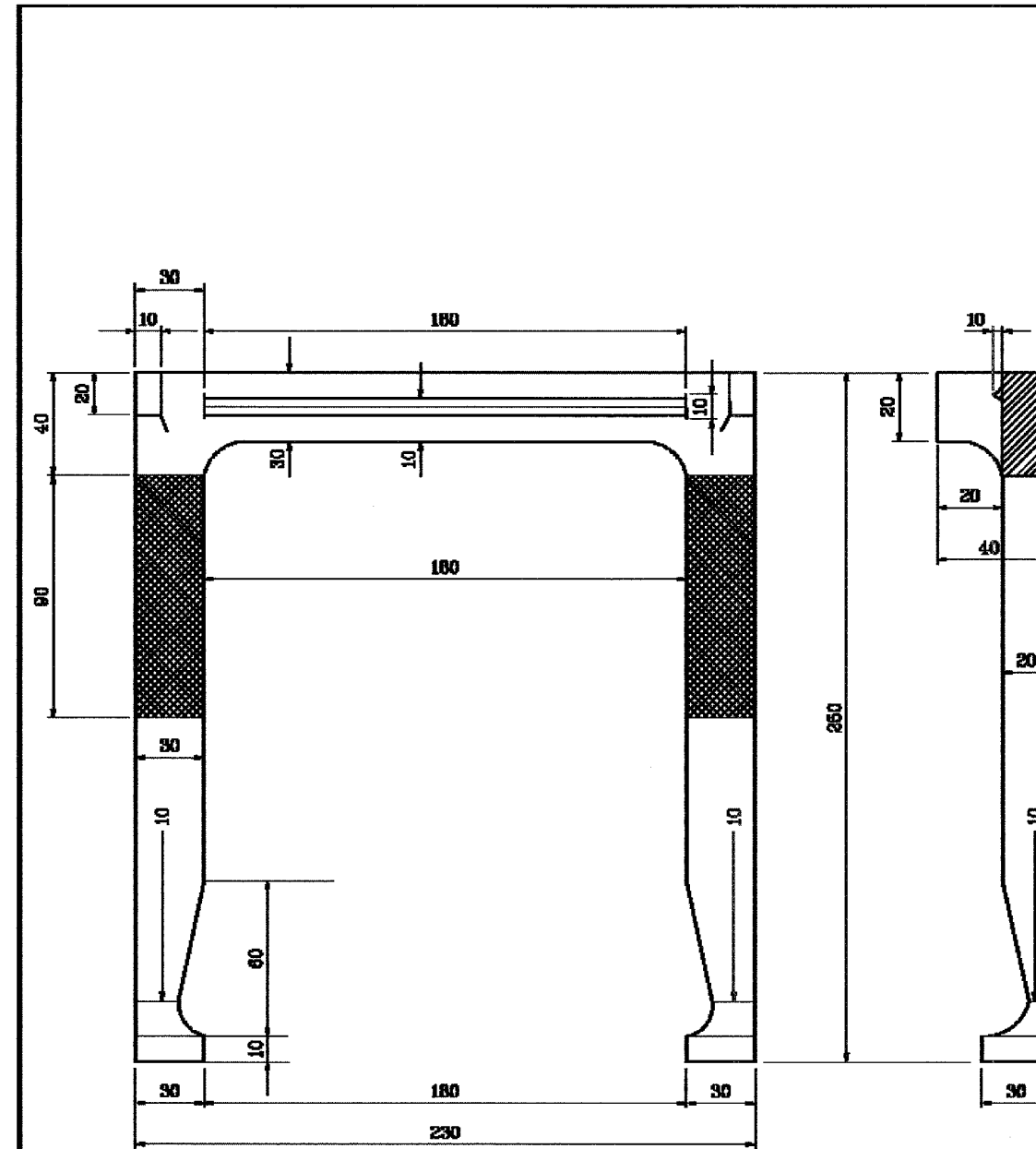
MANHOLE BARS AND CONCENTRIC CONE

SEPTEMBER 2003

STANDARD DRAWING NO. 720-MH-ST-08

	<i>Richard L. Vancleave</i> 9-26-03 <small>REGISTERED PROFESSIONAL ENGINEER</small> DATE:
	<i>Michael J. Suter</i> 9-26-03 <small>CHIEF ENGINEER</small> DATE:

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	321
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



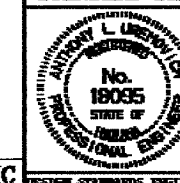
All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION

MANHOLE STEP

APRIL 1995

STANDARD DRAWING NO. 720-MHST-09



/s/ Anthony L. Urmovich 4/25/95
DESIGN STANDARD ENGINEER DATE

/s/ Donald V. Lucas 4/24/95
CHECK HIGHWAY ENGINEER DATE

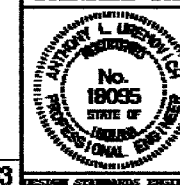
Source Sheet: MC

REINFORCING STEEL FOR MANHOLES																
Bars	Manhole Type D				Manhole Type E				Manhole Type F				Manhole Type G			
	Length	No.	Spa.	Size	Length	No.	Spa.	Size	Length	No.	Spa.	Size	Length	No.	Spa.	Size
B	2440	10	230	#16	2440	12	230	#16	2440	16	230	#16	2440	19	230	#16
B ₁	2080	12	230	#16	2590	12	230	#16	3360	12	230	#16	4040	12	230	#16
E	2210	3	50	#16	2210	3	50	#16	2210	3	50	#16	2210	3	50	#16
H	2590	22	150	#16	2590	33	150	#16	2590	41	150	#16	2590	58	150	#16
L	920	18	300	#16	920	16	300	#16	920	16	300	#16	920	16	300	#16
T	380	18	150	#16	920	16	150	#16	1600	16	150	#16	2290	16	150	#16
V	1530	18	150	#16	2060	16	150	#16	2740	16	150	#16	3510	16	150	#16
V ₁	1450	18	150	#16	1980	16	150	#16	2670	16	150	#16	3430	16	150	#16

All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION
 TABLE OF REINFORCING STEEL
 FOR MANHOLES
 SEPTEMBER 1997

STANDARD DRAWING NO. 720-MHST-10

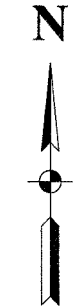


/s/ Anthony L. Ursvotek 9-01-97
 REGISTERED PROFESSIONAL ENGINEER

/s/ Donald W. Lucas 9-01-97
 REGISTERED PROFESSIONAL ENGINEER

Source Sheet: MD3

P.A. FTL	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2001-167R	COOK	1207	323
STA. 7+250		TO STA. 7+550		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114				

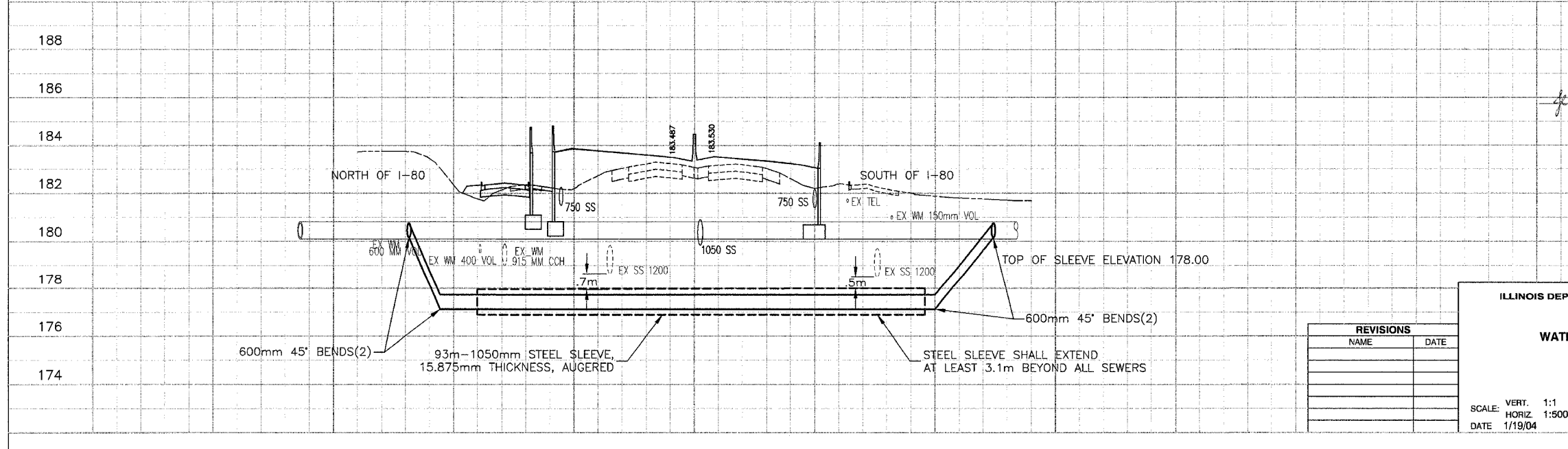
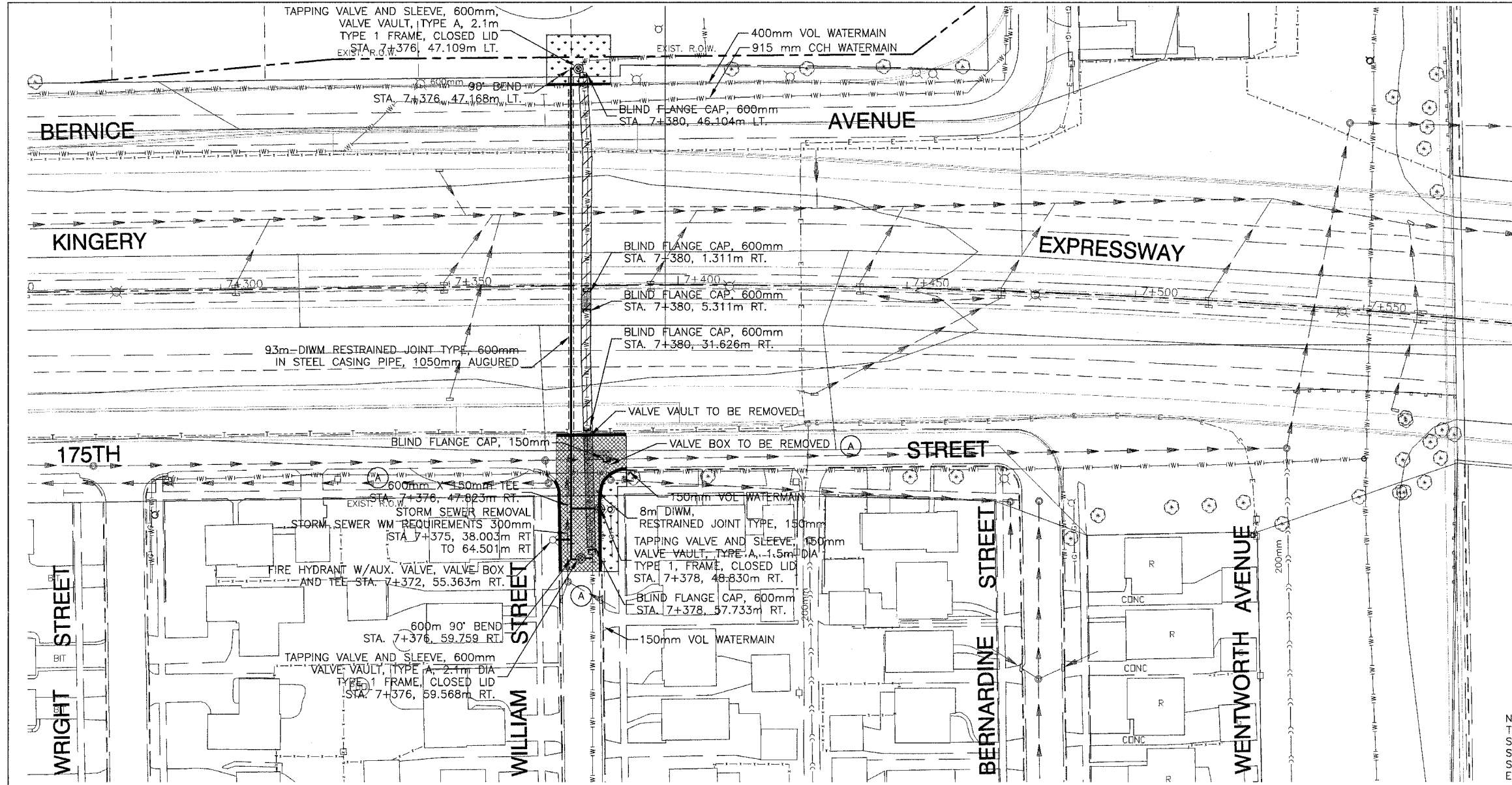


LEGEND

- COMBINATION CURB AND GUTTER REMOVAL AND COMBINATION CONCRETE CURB AND GUTTER, TYPE B-15.30
- PAVEMENT REMOVAL
AGGREGATE BASE COURSE, TYPE B
BITUMINOUS CONCRETE BINDER COURSE,
SUPERPAVE, IL-19.0, N50, 150mm
BITUMINOUS CONCRETE SURFACE COURSE,
SUPERPAVE, MIX "C", N50
- ABANDON WATER MAIN IN PLACE, CONTROLLED LOW STRENGTH MATERIAL
- REMOVE AND PLUG ABANDONED WATER MAIN
- TOPSOIL FURNISH AND PLACE, 100mm SEEDING, CLASS 2A
POTASSIUM FERTILIZER NUTRIENT
PHOSPHOROUS FERTILIZER NUTRIENT
NITROGEN FERTILIZER NUTRIENT
MULCH METHOD 3

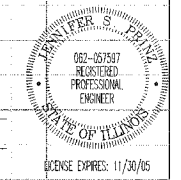


NOTE:
THE CONSTRUCTION OF THE WATER MAIN SHALL BE PERFORMED ACCORDING TO THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, 5TH EDITION, MAY 1996.



PREPARED BY OR UNDER THE DIRECT SUPERVISION OF:

Jennifer R. Wang
9-7-05



ILLINOIS DEPARTMENT OF TRANSPORTATION

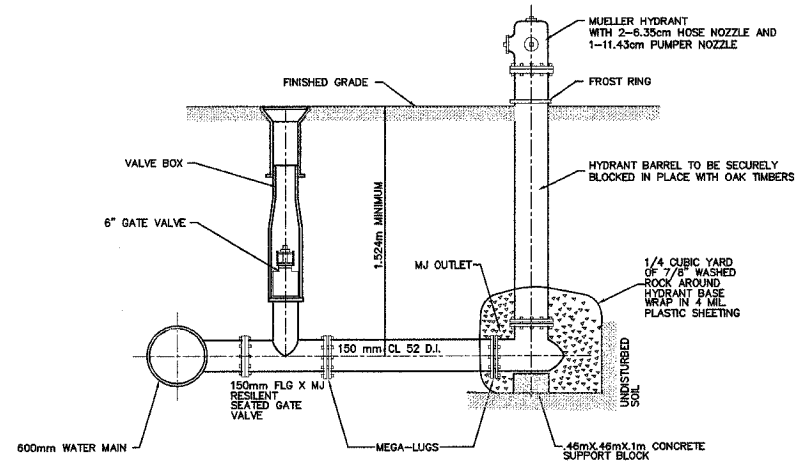
**WILLIAM STREET
WATER MAIN RELOCATION**

REVISIONS	
NAME	DATE

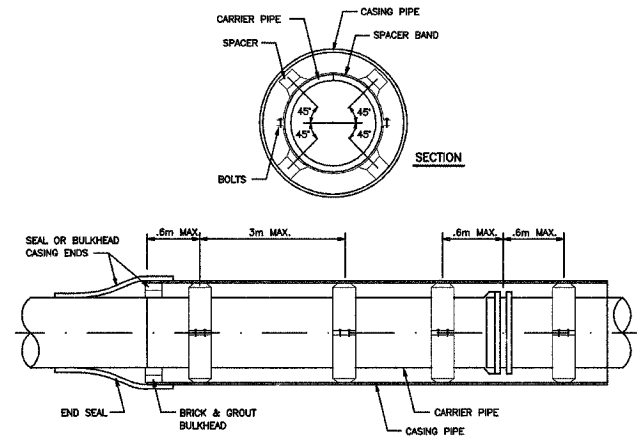
SCALE: VERT. 1:1
HORIZ. 1:500
DATE 1/19/04

DRAWN BY LTL
CHECKED BY JSP

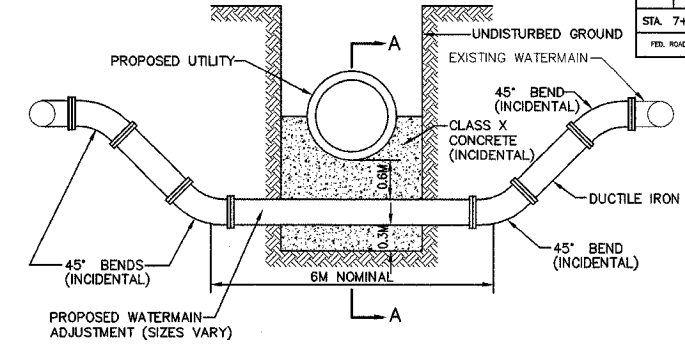
P. A. L. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2001-167R	COOK	1207	324
STA. 7+250	TO STA. 7+550			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114				



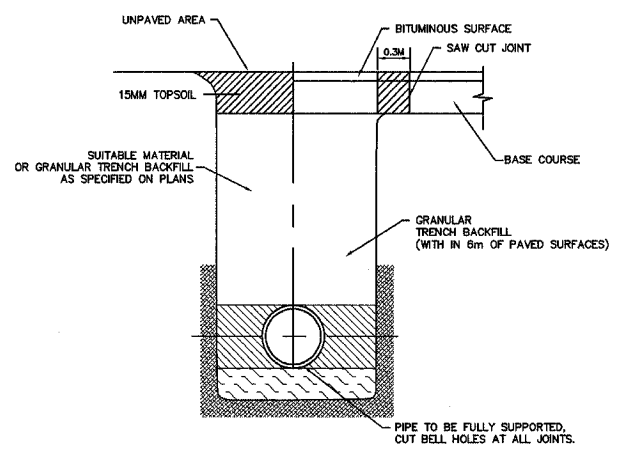
FIRE HYDRANT INSTALLATION



DUCTILE IRON PIPE CASING SPACER INSTALLATION

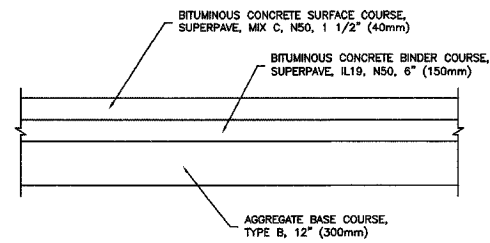


DETAIL OF WATERMAIN ADJUSTMENT



TYPE 3 TRENCH BACKFILL DETAIL FOR DUCTILE IRON WATERMAIN

NOTE: PIPE BEDDED IN 4" MINIMUM LOOSE SOIL. BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE. MAX. DEPTH OF COVER 14'. ANS/AWWA C150/A21.50 AND ANS/AWWA C151/A21.51 STANDARD LAYING CONDITIONS



PAVEMENT REPLACEMENT TYPICAL CROSS-SECTION

PREPARED BY OR UNDER THE DIRECT SUPERVISION OF:
Jennifer A. Prinz
 9-7-05



REVISIONS	
NAME	DATE

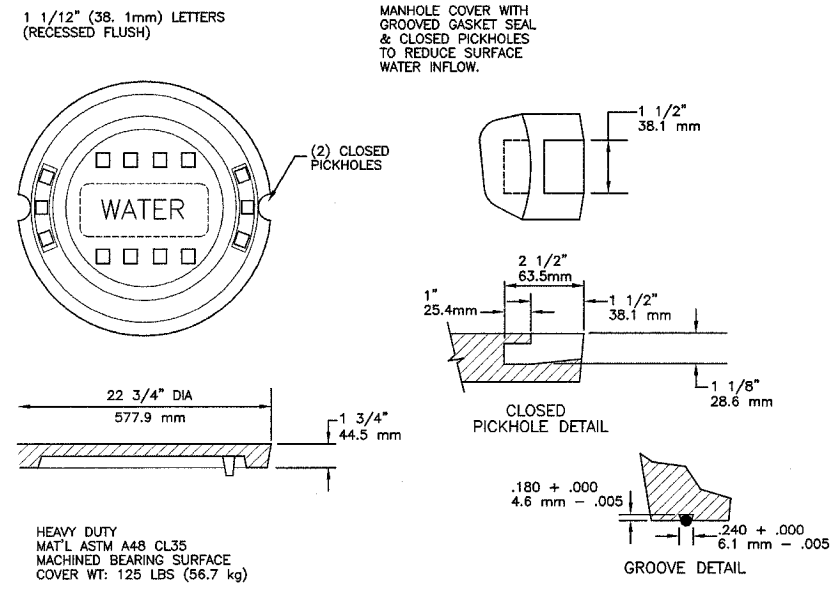
ILLINOIS DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

SCALE: VERT. N/A
 HORIZ. N/A
 DATE 2/3/05

DRAWN BY JM
 CHECKED BY JSP

P. A. L. SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2001-167R	COOK	1207	325
STA. 7+250		TO STA. 7+550		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114				



MANHOLE COVER
E.J.I.W. 1022Z3

HEAVY DUTY
MAT'L ASTM A48 CL35
MACHINED BEARING SURFACE
COVER WT: 125 LBS (56.7 kg)

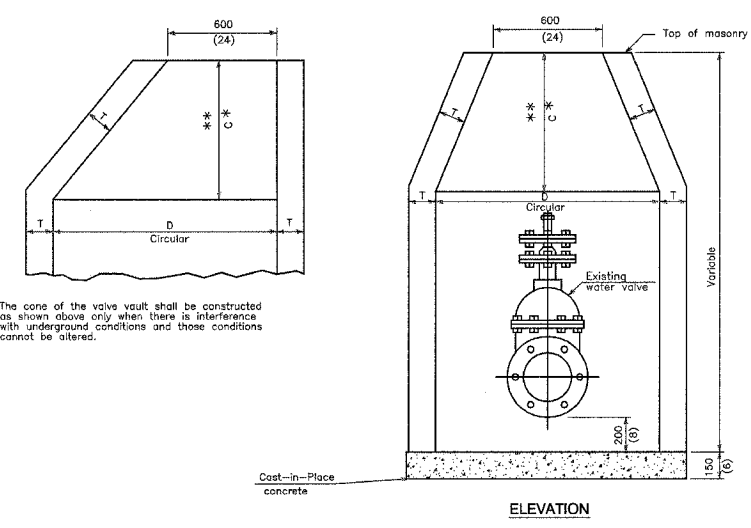
JOINT RESTRAINT TABLE - Unless additional pipe restraint is shown on the Plans, the restrained length measured from the fitting joint to the end of the last restrained joint pipe for pipe fittings shall equal or exceed those tabulated lengths - METERS

Pipe Size (mm)	FITTINGS				Dead Ends
	Tee * Branch	90 Elbow	45 Elbow	22-1/2 Elbow	
100	3	3	2	1	5
150	5	4	3	1	7
200	7	5	3	2	9
250	9	7	3	2	11
300	11	8	3	2	12
350	13	9	4	2	13
400	15	9	4	2	15
450	16	11	5	2	16
500	18	12	5	2	20
600	32	22	9	3	32
750	38	25	12	3	38
900	45	30	13	3	45

Test Pressure on sizes 500mm and smaller based on 100 psi.
Test Pressure on sizes 600mm and larger based on 150 psi.
Increase all lengths in Table by 75% for use on polyethylene wrapped pipe.
*One full length (5.5M) of pipe on both sides of branch to be restrained.

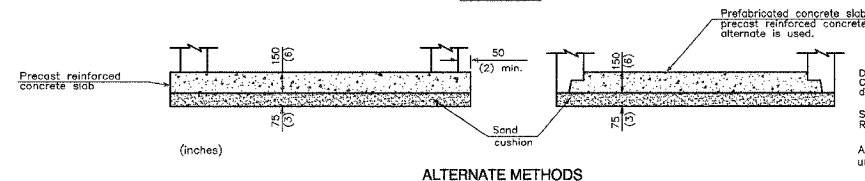
DUCTILE IRON JOINT RESTRAINT TABLE

NOTE:
FOR BIDDING PURPOSES ONLY
CONTRACTOR TO SUBMIT DESIGN
CALCULATIONS PRIOR TO CONSTRUCTION



The cone of the valve vault shall be constructed as shown above only when there is interference with underground conditions and those conditions cannot be altered.

ALTERNATE MATERIALS FOR WALLS	D	C	T (min.)
Precast Reinforced Concrete Section	1.2 m (4'-0")	750 (30)	100 (4)
	1.5 m (5'-0")	750 (30)	125 (5)
	2.1 m (7'-0")	1,115 m (3'-9")	200 (8)



VALVE VAULT TYPE A

*** GENERAL NOTES**
Dimension "C" for Precast Reinforced Concrete Section may vary from the dimension given to plus 150 mm (6").
See DETAIL 602601 for optional Precast Reinforced Concrete Flat Top Slab.
All dimensions are in millimeters unless otherwise shown.

PREPARED BY OR UNDER THE DIRECT SUPERVISION OF:

James P. Prinz
9-7-05



REVISIONS	
NAME	DATE

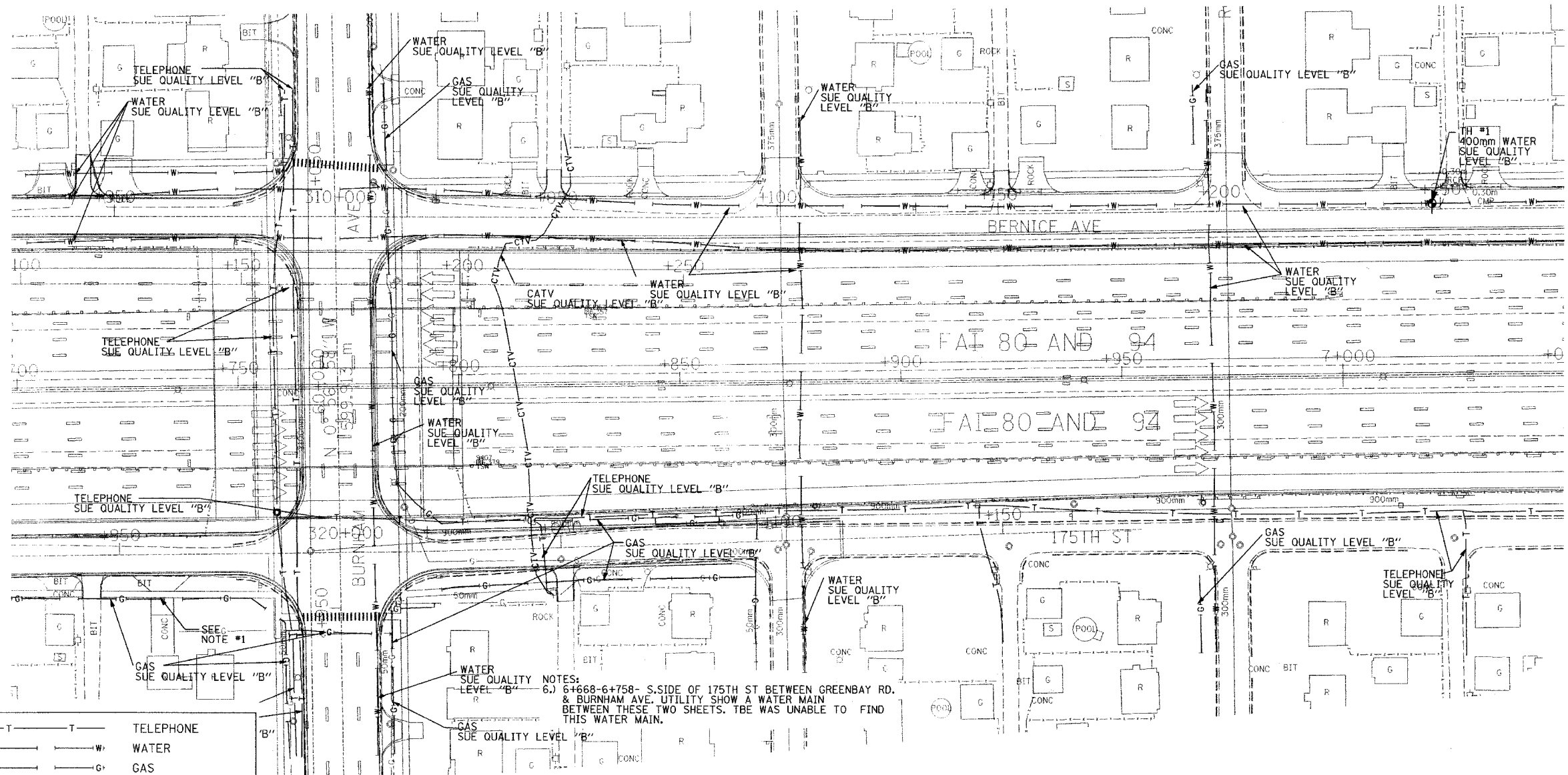
ILLINOIS DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

SCALE: VERT. N/A
HORIZ. N/A
DATE 2/3/05

DRAWN BY JM
CHECKED BY JSP

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	SEE BELOW	COOK	1207	326
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



— T — T —	TELEPHONE
— W — W —	WATER
— G — G —	GAS
— CTV — CTV — CTV —	CABLE TELEVISION
— FO — FO — FO —	FIBER OPTIC
— E — E —	ELECTRIC

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 * PLANNING * UTILITY ENGINEERING/LOCATING
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 PA, VA, CANADA
 WESTERN REGION: AZ, NV, NM, TX, CA, OR, UT, WA
 IL09500122, IL09500216
 TBE SUE PAGE NO: 40 of 52
 Checked By: *[Signature]*
 SUE Quality Level "A" : Test Holes
 SUE Quality Level "B" : Designating

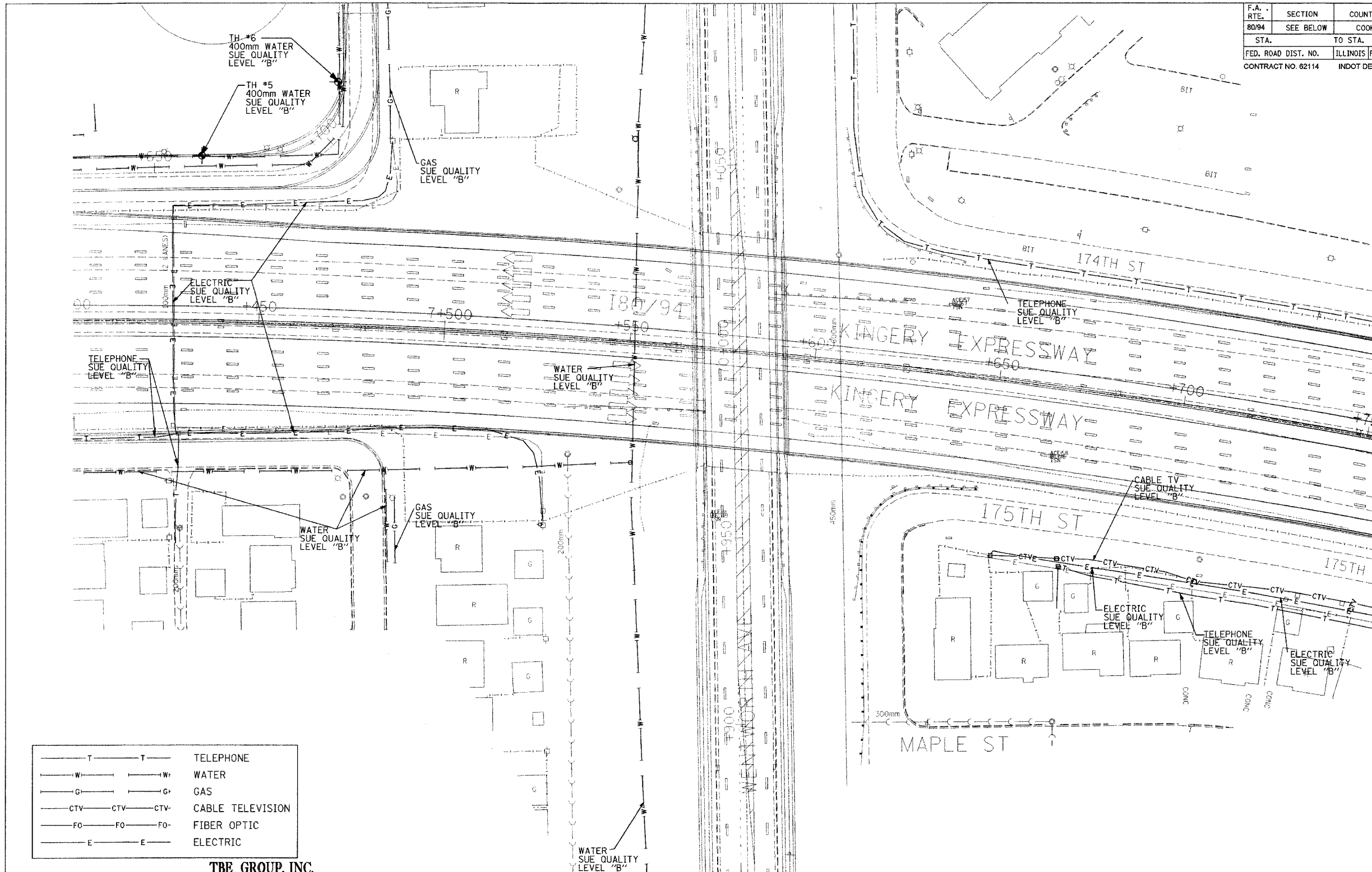


205 W. WACKER DRIVE
 SUITE 1020
 CHICAGO, IL 60606
 (312) 704-1970

Utilities shown on these plans as depicted in the legend have been investigated by TBE Group, Inc in accordance with SUE Industry Standards. All other information shown has been provided to TBE Group, Inc by others.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		E. of IL RT. 83/US RT. 6 to E. Burnham Ave.
		I-80/I-94 Burnham Ave. to State Line
		I-80/I-94 (Tollway) E. of I-94 to W. of RT. 83/US 6.
		I-94/IL RT. 394 S. of US 6 to 186th Street (N. bound & S. bound)
		Contract No. 62110, 62111, 62114, 62105, 62107, 62108, 216
		SOL "A" DATE : 4/19/04 DRAWN BY : JAC
		SOL "B" DATE : 2/8/02 SCALE : 500

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	SEE BELOW	COOK	1207	328
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



—T—T—	TELEPHONE
—W—W—	WATER
—G—G—	GAS
—CTV—CTV—	CABLE TELEVISION
—FO—FO—	FIBER OPTIC
—E—E—	ELECTRIC

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 NORTHERN REGION: IL, IN, MI, OH, MD, NJ, NY
 PA, VA, CANADA
 WESTERN REGION: AZ, NV, NM, TX, CA, OR, UT, WA

IL09500122, IL09500216
 TBE SUE PAGE NO: 43 of 52
 Signature: *[Signature]*
 SUE Quality Level "A" : Test Holes
 SUE Quality Level "B" : Designating

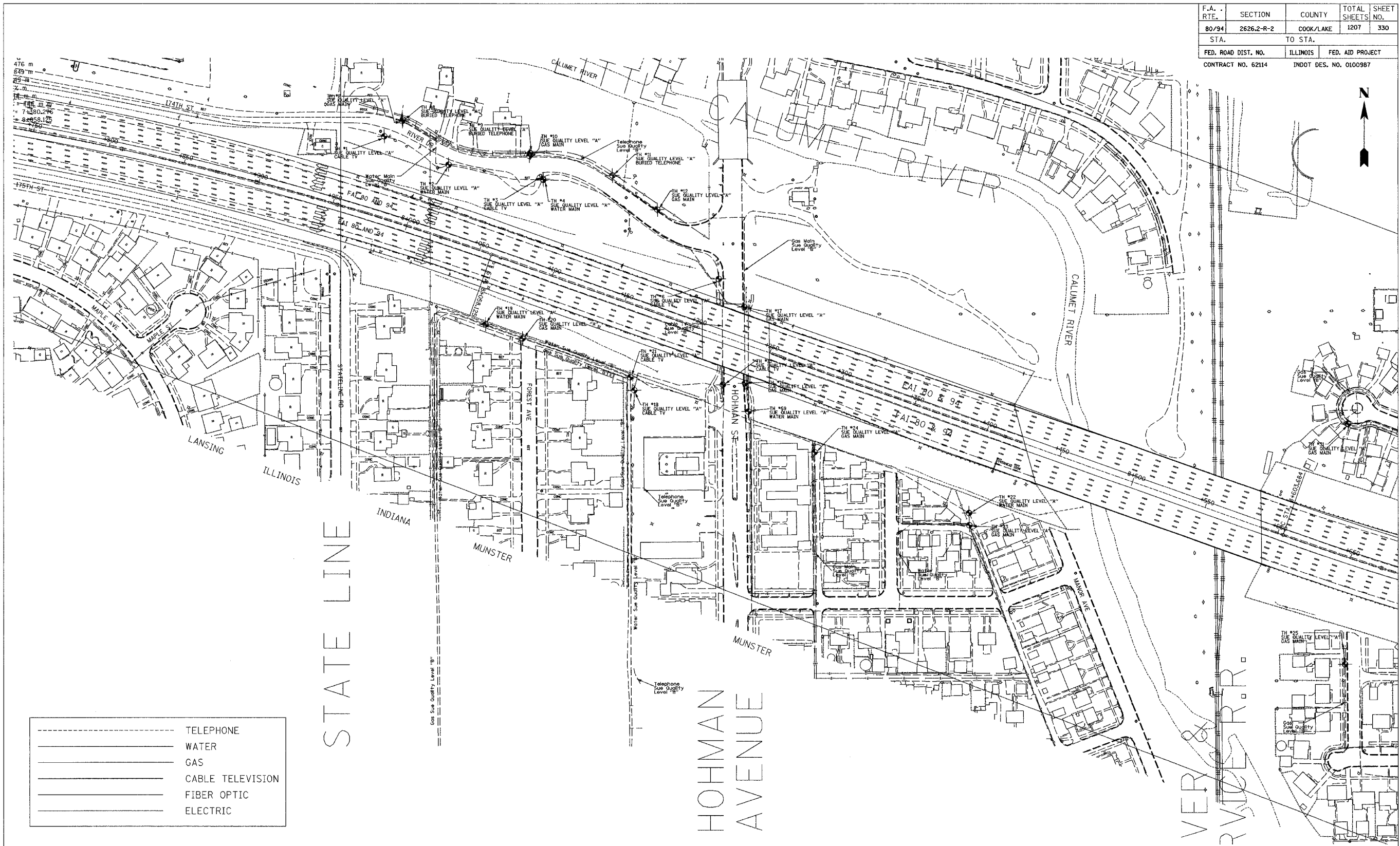


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REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	330
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



-----	TELEPHONE
_____	WATER
_____	GAS
_____	CABLE TELEVISION
_____	FIBER OPTIC
_____	ELECTRIC

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 PA, VA, CANADA
 WESTERN REGION: AZ, NV, NM, TX, CA, OR, UT, WA
 SUE Quality Level "A & B" Completed On: 2/27/02
 Prepared By: JAC QA/QC By: SLJ
 TBE Project No: IN09500411

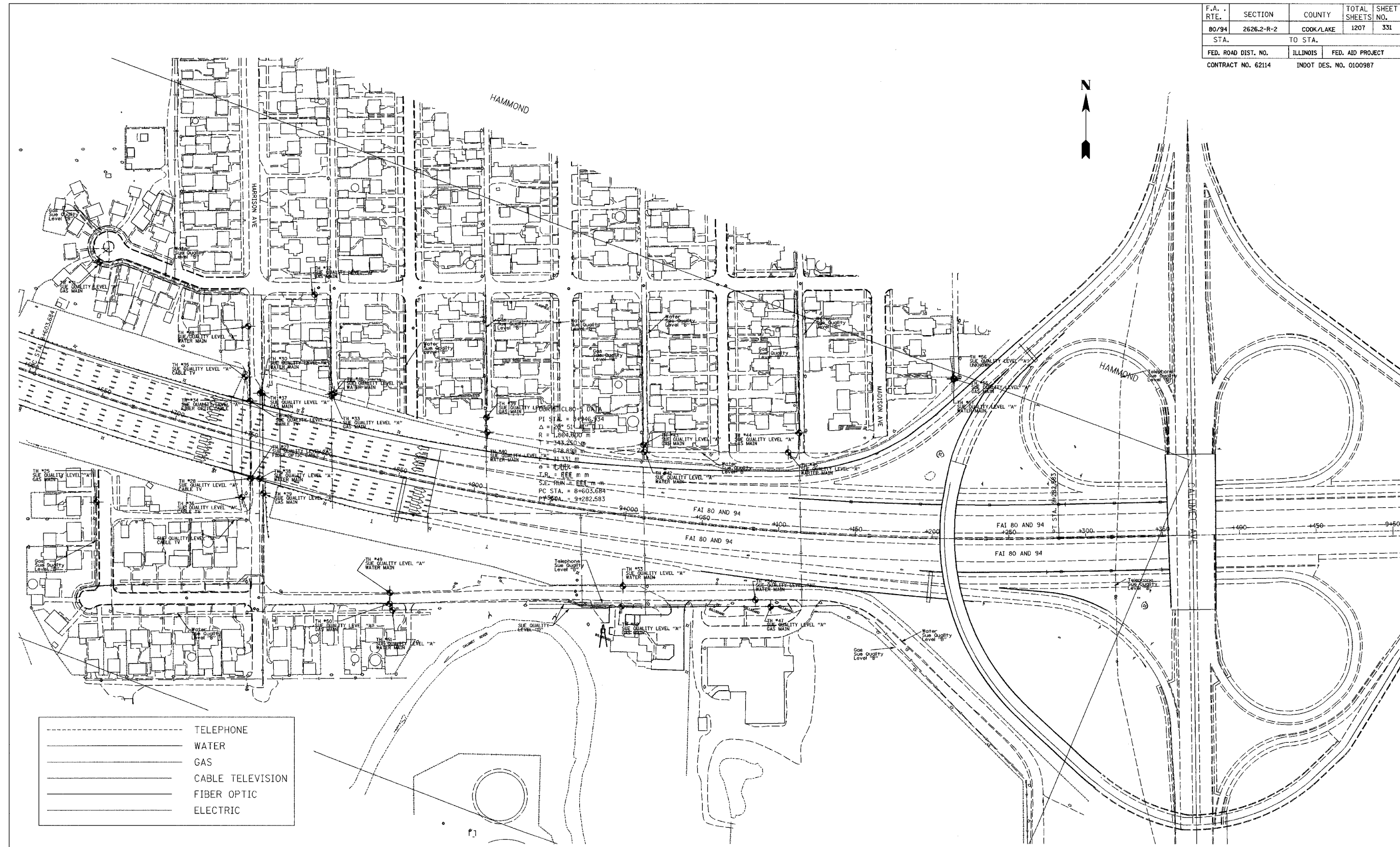
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US
 CONSULTANTS, INC.
 8415 East 56th Street
 Indianapolis, Indiana 46218

REVISIONS	
NAME	DATE

INDIANA DEPARTMENT OF TRANSPORTATION
 I-80 / 94
 SCALE: 1" = 30'
 DATE
 DRAWN BY
 CHECKED BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	331
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



-----	TELEPHONE
-----	WATER
-----	GAS
-----	CABLE TELEVISION
-----	FIBER OPTIC
-----	ELECTRIC

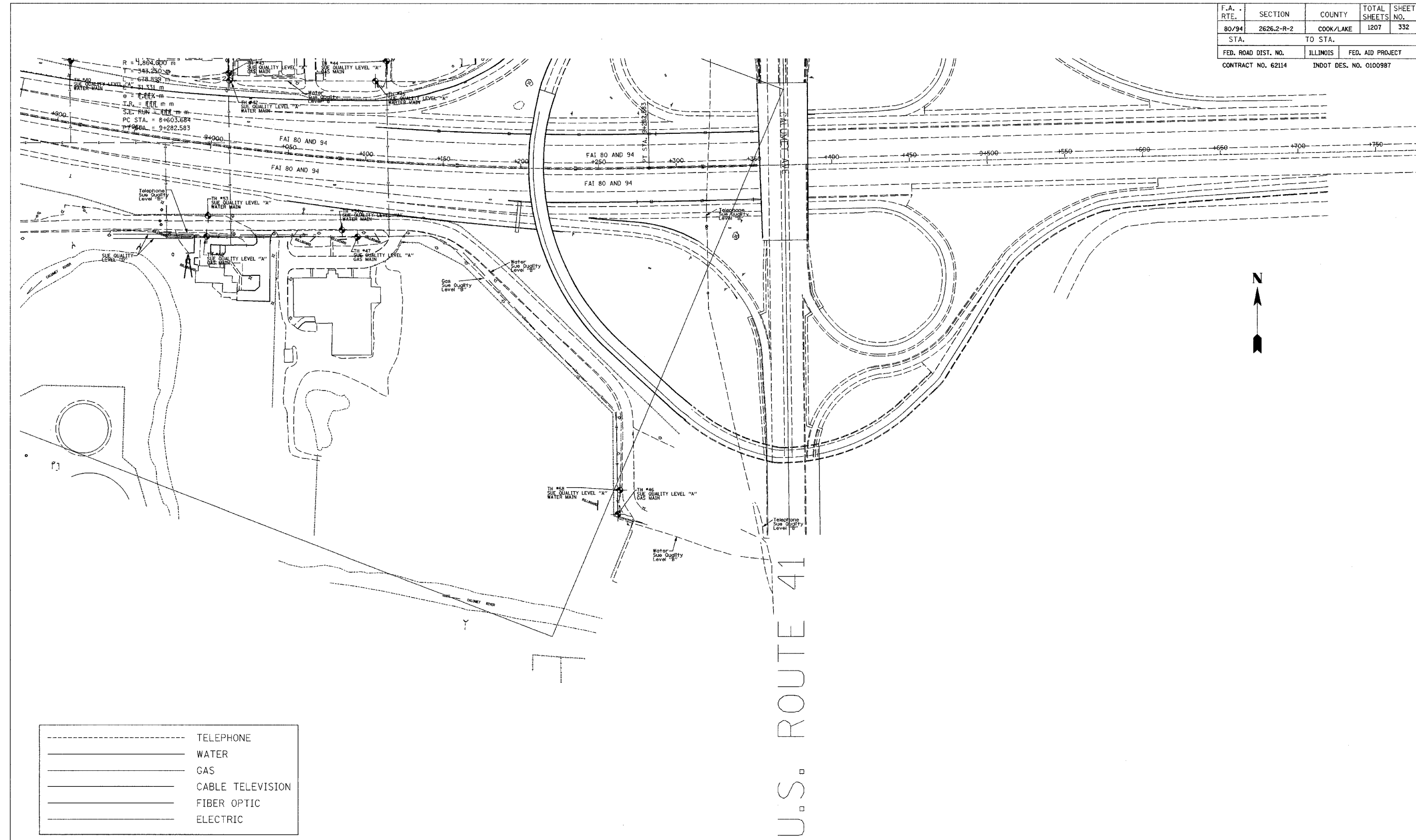
TBE GROUP, INC.
 CIVIL ENGINEERING • TRANSPORTATION • ENVIRONMENTAL
 • PLANNING • UTILITY ENGINEERING/LOCATING
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 Indianapolis, Indiana 46218

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NAME	DATE	
		I-80 / 94
		SCALE: 1"= 30'
		DATE
		DRAWN BY
		CHECKED BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	332
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



-----	TELEPHONE
_____	WATER
_____	GAS
_____	CABLE TELEVISION
_____	FIBER OPTIC
_____	ELECTRIC

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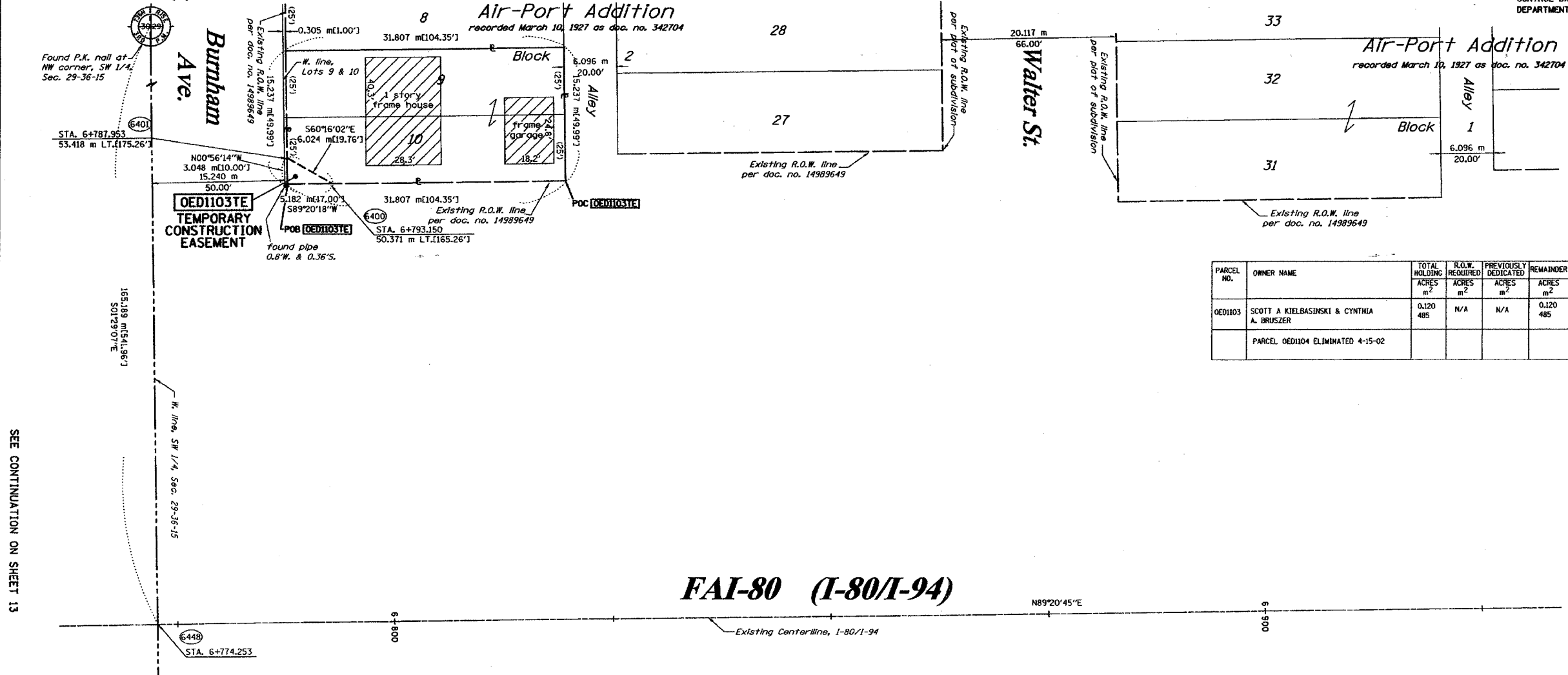
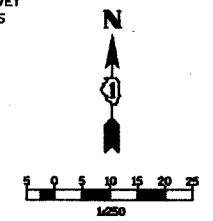
U.S. ROUTE 41

US
 CONSULTANTS, INC.
 8415 East 56th Street
 Indianapolis, Indiana 46218

REVISIONS		INDIANA DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		I-80 / 94
		SCALE: 1"=30'
		DATE
		DRAWN BY
		CHECKED BY

PART OF THE SW 1/4 SECTION 29, T36N, R15 EAST OF THE 3rd PM, COOK COUNTY, ILLINOIS

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.



PARCEL NO.	OWNER NAME	TOTAL HOLDING	R.O.W. REQUIRED	PREVIOUSLY DEDICATED	REMAINDER	EASEMENTS		EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
		ACRES	ACRES	ACRES	ACRES	TEMP	PERM			
OED1103	SCOTT A KIELBASINSKI & CYNTHIA A BRUSZER	0.120 485	N/A	N/A	0.120 485	0.002 8	N/A	GRADING	30-29-300-047	0021061448
	PARCEL OED1104 ELIMINATED 4-15-02								30-29-307-025	

- LEGEND (METRIC)**
- EXISTING CENTERLINE
 - PROPOSED CENTERLINE
 - EXISTING RIGHT OF WAY LINE
 - PROPOSED RIGHT OF WAY LINE
 - EXISTING EASEMENT LINE
 - SECTION LINE
 - QUARTER SECTION LINE
 - QUARTER QUARTER SECTION LINE
 - PROPERTY IDEED LINE
 - APPARENT PROPERTY LINE
 - APL
 - 121.45 MEASURED DIMENSION
 - 423.45 (COMP) COMPUTED DIMENSION
 - (23.45) RECORDED DIMENSION
 - FOUND IRON PIPE OR IRON ROD
 - SET 3/8 INCH IRON ROD
 - PERMANENT SURVEY MONUMENT, I.O.D.T. STD. 2135
 - ⊕ CUT CROSS FOUND OR SET
 - SAME OWNERSHIP
 - TEL EXISTING TELEPHONE SPLICE BOX
 - LGT EXISTING STREET LIGHT
 - P EXISTING MAIL BOX
 - WELL EXISTING WELL HEAD
 - STAKING OF PROPOSED RIGHT OF WAY. SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
 - STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
 - SECTION CORNER
 - QUARTER SECTION CORNER

STATE OF ILLINOIS)
) SS
 COUNTY OF WILL)

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 29, TOWNSHIP 36 NORTH, RANGE 15 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT CHICAGO, ILLINOIS THIS 20TH DAY OF NOVEMBER, 2002 A.D.

Ronald F. Hodgen
 RONALD F. HODGEN P.L.S. NO. 2630

SEE SHEETS 24 & 25 FOR COORDINATE DATA AND REFERENCE TIES

RUETTIGER, TONELLI & ASSOCIATES, INC.
Lead Surveyors/Engineers/Planners/Landscape Architects/G.I.S. Consultants
 2314 ONEDA STREET SUITE 170 JOLIET, ILLINOIS 60438
 PH. (815) 744-6600 FAX (815) 744-0101 P.O. BOX 420-TT40 JOLIET, ILLINOIS 60438

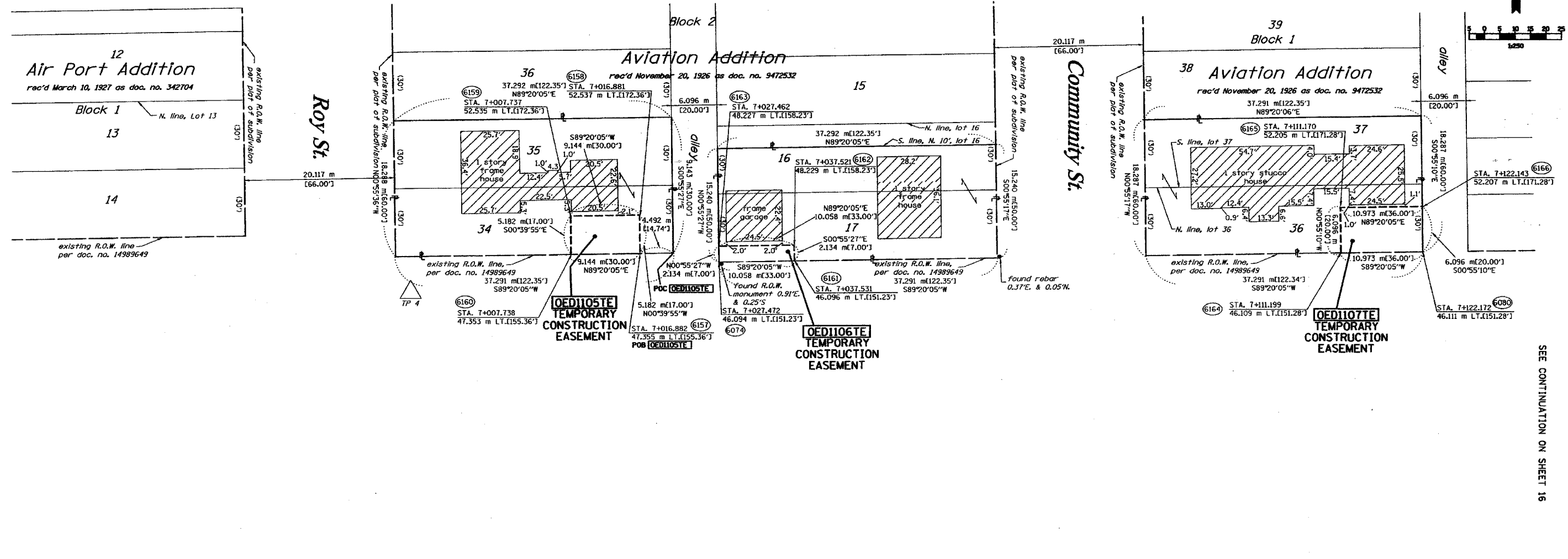
ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
 FAI-80 (I-80/I-94)
 COOK COUNTY
 JOB NO. R-90-010-01
 STATION 6+775 TO STATION 6+950

SHEET 14 OF 25

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/DISTRICT 1
 201 WEST CENTER COURT
 SCHMIDGALL, ILLINOIS 60196

PART OF THE SW 1/4 OF SECTION 29, T36N, R15 EAST OF THE 3rd PM, COOK COUNTY, ILLINOIS

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.



SEE CONTINUATION ON SHEET 14

SEE CONTINUATION ON SHEET 16

FAI-80 (I-80/I-94)

LEGEND (METRIC)

- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- MEASURED DIMENSION (121.45)
- COMPUTED DIMENSION (123.45)
- RECORDED DIMENSION (123.45)
- FOUND IRON PIPE OR IRON ROD
- SET 3/8 INCH IRON ROD
- PERMANENT SURVEY MONUMENT, 1.50" ST. 2135 (TO BE SET BY OTHERS)
- CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- EXISTING TELEPHONE SPLICE BOX
- EXISTING STREET LIGHT
- EXISTING MAIL BOX
- EXISTING WELL HEAD
- STAKING OF PROPOSED RIGHT OF WAY. SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY DESCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY DESCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	R.O.W. REQUIRED ACRES	PREVIOUSLY DEDICATED ACRES	REMAINDER ACRES	EASEMENTS		EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
						TEMP ACRES	PERM ACRES			
0ED1105	FLORENCE SMITH	0.169 682	N/A	N/A	0.169 682	0.012 47	N/A	GRADING	30-29-302-016	02 L 051274
0ED1106	CHRISTOPHER C. RUSK	0.142 574	N/A	N/A	0.142 574	0.005 21	N/A	GRADING	30-29-302-047	
0ED1107	EDUARDO & GRACE ORIHUELA	0.169 682	N/A	N/A	0.169 682	0.017 67	N/A	GRADING	30-29-303-046	

STATE OF ILLINOIS)
COUNTY OF WILL) SS



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DATED 20th JULIET, ILLINOIS THIS 20TH DAY OF NOVEMBER, 2002 A.D.
Ronald F. Hoogen
RONALD F. HOOGEN P.L.S. NO. 2630

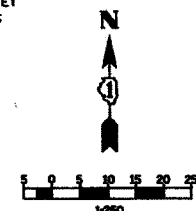
SEE SHEETS 24 & 25 FOR COORDINATE DATA AND REFERENCE TIES

RUETTIGER, TONELLI & ASSOCIATES, INC.
Lead Surveyors/Engineers/Planners/Landscape Architects/C.L.S. Consultants
214 OGDEN STREET 2500 SOUTH WASHINGTON STREET SUITE 170
JOLIET, ILLINOIS 60453 HAWKERSVILLE, ILLINOIS 60526
PH. (815) 744-6600 FAX (815) 744-0101 PH. (630) 420-7740 FAX (630) 420-7741

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAI-80 (I-80/I-94)
COOK COUNTY
JOB NO. R-90-010-01
STATION 6+960 TO STATION 7+135
SHEET 15 OF 25
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHMIDGALL, ILLINOIS 60086

PART OF THE SW 1/4 OF SECTION 29, T36N, R15 EAST OF THE 3rd PM, COOK COUNTY, ILLINOIS

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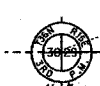


LEGEND (METRIC)

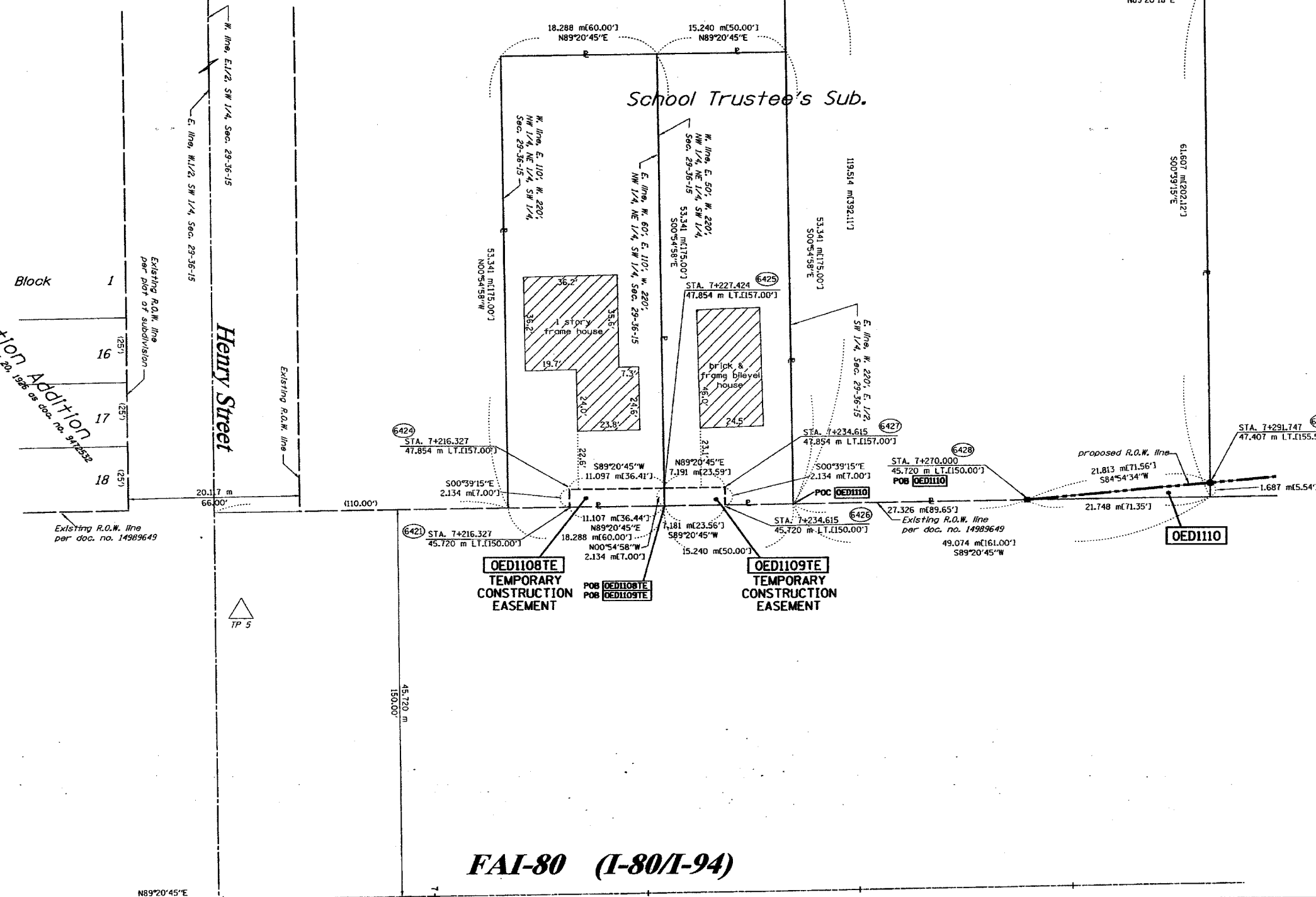
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
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- APL 121.45 MEASURED DIMENSION
- 123.45 (COMP) COMPUTED DIMENSION
- (123.45) RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- SET 1/2 INCH IRON ROD
- PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- ⊕ CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- TEL EXISTING TELEPHONE SPLICE BOX
- LG EXISTING STREET LIGHT
- MB EXISTING MAIL BOX
- WELL EXISTING WELL HEAD
- STAKING OF PROPOSED RIGHT OF WAY, SET 1/2 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, SET 1/2 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.



SEE CONTINUATION ON SHEET 17



403.214 m(1322.88')
N89°20'18"E
N. line, SW 1/4, Sec. 29-36-15
Found P.K. nail at NW corner,
SW 1/4, Sec. 29-36-15



SEE CONTINUATION ON SHEET 15

Block 1
Aviation Addition
recorded November 20, 1986 as doc. no. 947552
Existing R.O.W. line
per plot of subdivision

STATE OF ILLINOIS)
COUNTY OF WILL)

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DATED AT MOLIET, ILLINOIS THIS 20TH DAY OF NOVEMBER, 2002 A.D.
Ronald F. Hodgen
RONALD F. HODGEN P.L.S. NO. 2630

SEE SHEETS 24 & 25 FOR COORDINATE DATA AND REFERENCE TIES
RUETTIGER, TONELLI & ASSOCIATES, INC.
Lead Surveyors/Engineers/Planners/Landscape Architects/C.L.S. Consultants
214 ODEIA STREET SUITE 110
MURFreesboro, ILLINOIS 6005
PH 630 744-9600 FAX 630 744-0008

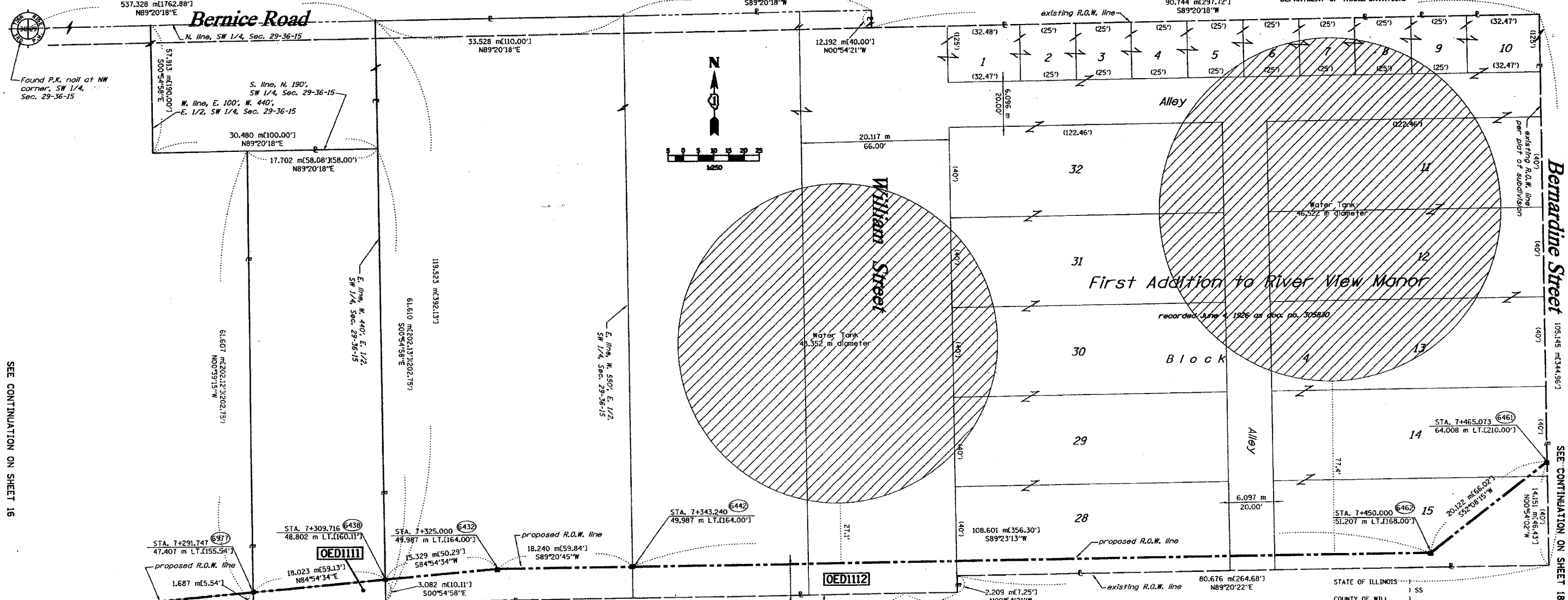
ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAI-80 (I-80/I-94)
COOK COUNTY
JOB NO. R-90-010-00
STATION 74125 TO STATION 74300
SHEET 16 OF 25
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHAMBERG, ILLINOIS 60196

PARCEL NO.	OWNER	TOTAL HOLDING	R.O.W. REQUIRED	PREVIOUSLY DEDICATED	REMAINDER	EASEMENTS		EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
		ACRES m ²	ACRES m ²	ACRES m ²	ACRES m ²	TEMP ACRES m ²	PERM ACRES m ²			
OED1108	SUZANNE PRIMOZIC	0.241 975	N/A	N/A	0.241 975	0.006 24	0.004 15	N/A	30-29-304-022	00009465
OED1109	FIRST NATIONAL BANK OF ILLINOIS, AS TRUSTEE, TRUST NO. 4850	0.201 813	N/A	N/A	0.201 813	0.006 24	0.004 15	N/A	30-29-304-020	00009464
OED1110	MIGUEL A. MORALES & CLARA L. BOJAS	1.273 5150	0.005 18	N/A	1.268 5132	N/A	N/A	N/A	30-29-304-008 30-29-304-017	

FAI-80 (I-80/I-94)

PART OF THE SW 1/4 OF SECTION 29, T36N, R15 EAST OF THE 3rd PM, COOK COUNTY, ILLINOIS

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.



SEE CONTINUATION ON SHEET 16

SEE CONTINUATION ON SHEET 18

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	H.O.W. REQUIRED ACRES	PREVIOUSLY DEDICATED ACRES	REMAINDER ACRES	EASEMENTS TEMP ACRES	EASEMENTS PERM ACRES	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
OED1111	FILBERTO & ROSALINDA ONTIVEROS	0.272	0.011	N/A	0.261	N/A	N/A	N/A	30-29-304-017	
OED1112	VILLAGE OF LANSING, A MUNICIPAL CORP.	4.356	0.143	N/A	4.213	N/A	N/A	N/A	30-29-304-010 30-29-304-011 30-29-305-025	0030287704

CURVE DATA TABLE

	20°11'25"	20°11'25"
Δ	20°11'25"	20°11'25"
R	6311.01'	1923.601 m
T	1123.61'	342.476 m
L	2223.91'	677.849 m
E	99.24'	30.249 m
P.C. STA.	242+13.45	7+380.276
P.T. STA.	264+37.36	8+058.124
P.I. STA.	253+37.06	7+722.152

LEGEND (METRIC)

- EXISTING CENTERLINE
- - - PROPOSED CENTERLINE
- - - EXISTING RIGHT OF WAY LINE
- - - PROPOSED RIGHT OF WAY LINE
- - - EXISTING EASEMENT LINE
- - - SECTION LINE
- - - QUARTER SECTION LINE
- - - QUARTER QUARTER SECTION LINE
- - - PROPERTY (OED) LINE
- - - APPARENT PROPERTY LINE
- MEASURED DIMENSION
- - - COMPUTED DIMENSION
- - - RECORDED DIMENSION
- FOUND IRON PIPE OR IRON ROD
- SET 3/4 INCH IRON ROD
- ⊕ PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- ⊕ CUT CROSS FOUND OR SET
- ⊕ SAME OWNERSHIP
- ⊕ EXISTING TELEPHONE SPLICE BOX
- ⊕ EXISTING STREET LIGHT
- ⊕ EXISTING MAIL BOX
- ⊕ EXISTING WELL HEAD
- ⊕ STAKING OF PROPOSED RIGHT OF WAY, SET 3/4 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ⊕ STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, SET 3/4 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ⊕ SECTION CORNER
- ⊕ QUARTER SECTION CORNER

STATE OF ILLINOIS)
COUNTY OF WILL) SS

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC. AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 29, TOWNSHIP 36 NORTH, RANGE 15 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED 20th DAY OF NOVEMBER 2012
Ronald F. Hodgen
RONALD F. HODGEN P.L.L.C. NO. 2630

SEE SHEETS 24 & 25 FOR COORDINATE DATA AND REFERENCE TIES

RUETTIGER, TONELLI & ASSOCIATES, INC.
Lead Surveyors/Engineers/Planners/Landscape Architects/U.S. Consultants
214 OMEGA STREET SUITE 170
MURFreesboro, ILLINOIS 60966
PH 630 744-6600 FAX 630 744-0001 PL 630 420-7740 FAX 630 420-7741

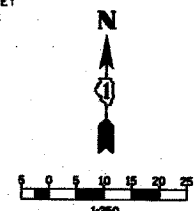
ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAI-80 (I-80/I-94)
COOK COUNTY
JOB NO. R-90-010-01
STATION 7+275 TO STATION 7+425

SHEET 17 OF 25
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/DISTRICT 1
201 WEST CENTER COURT
SCHAMMURG, ILLINOIS 60966

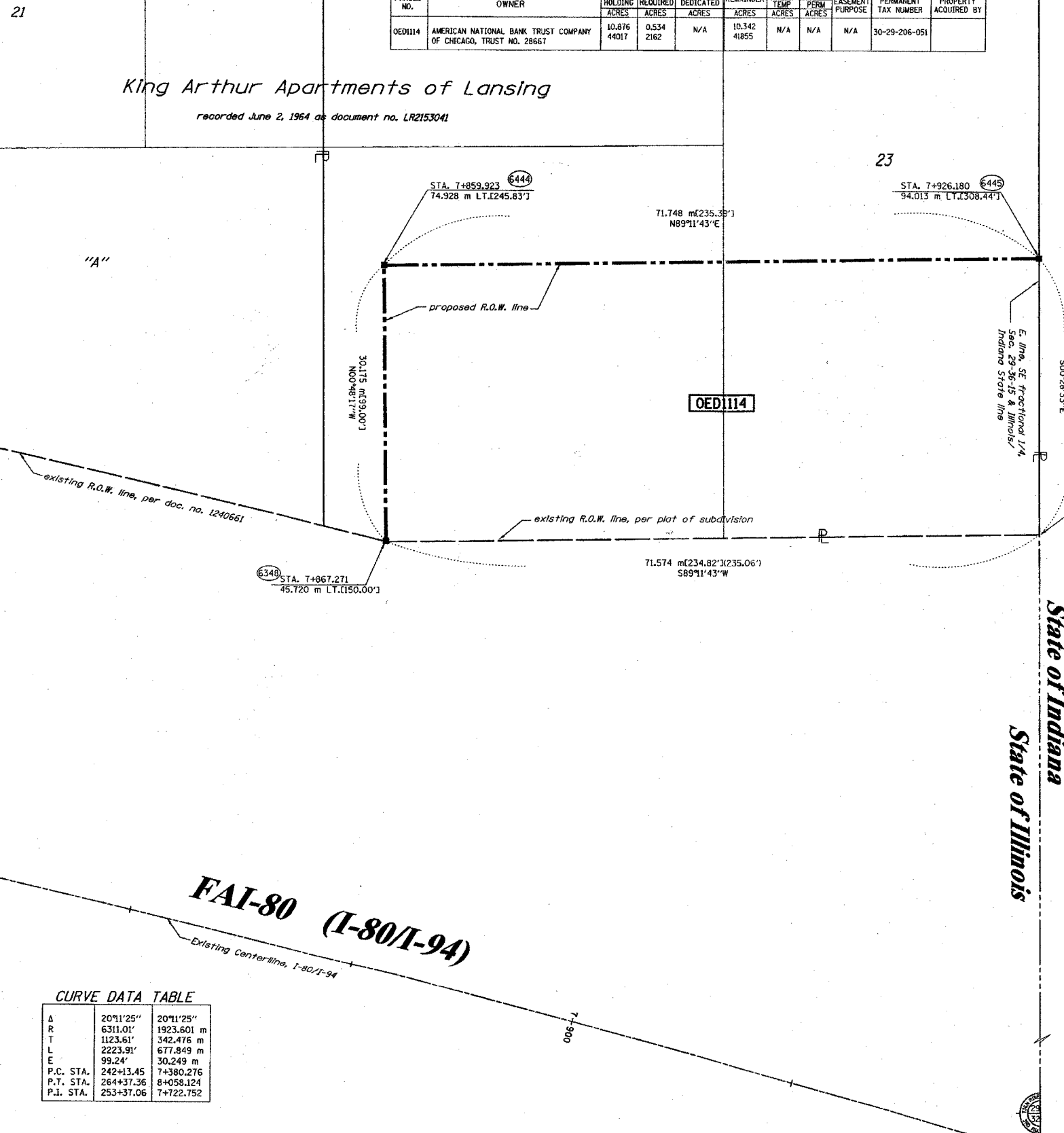
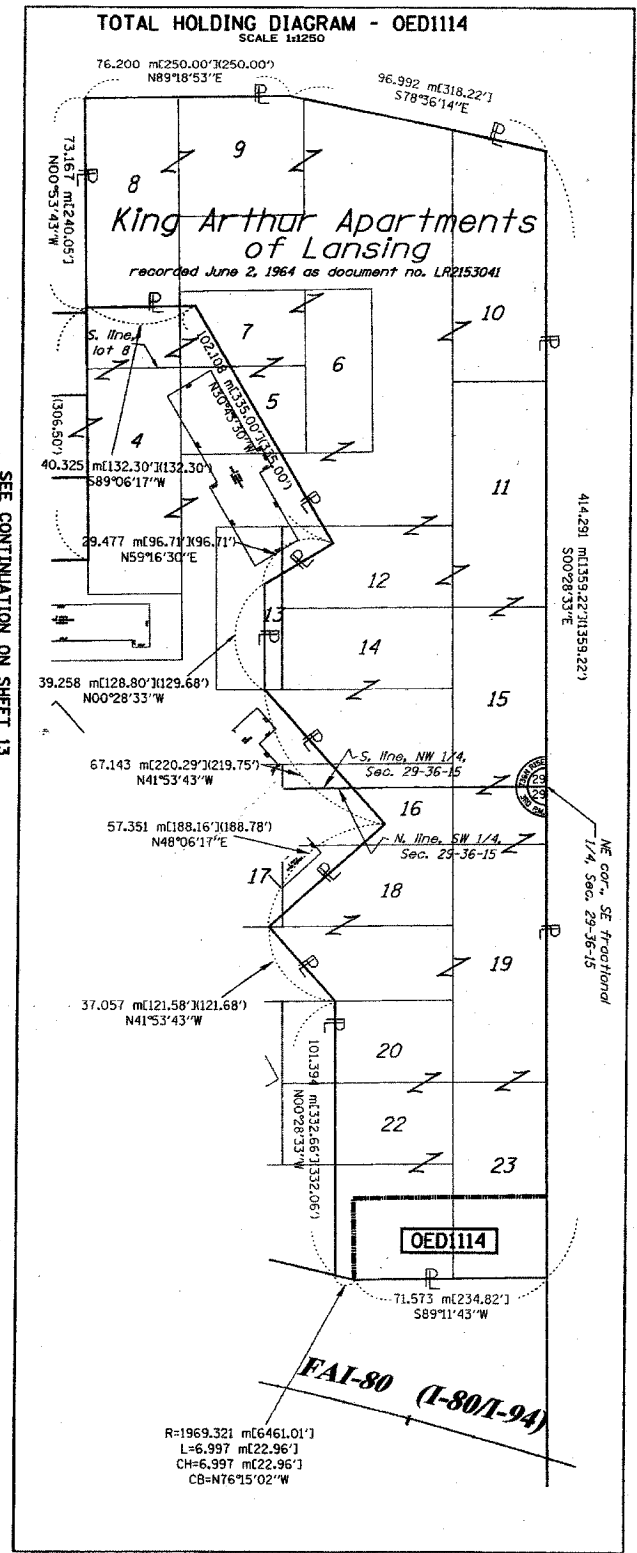
FAI-80 (I-80/I-94)

PART OF THE SE FRACTIONAL 1/4 OF SECTION 29, T36N, R15 EAST OF THE 3rd PM, COOK COUNTY, ILLINOIS

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.



PARCEL NO.	OWNER	TOTAL HOLDING ACRES	R.O.W. REQUIRED ACRES	PREVIOUSLY DEDICATED ACRES	REMAINDER ACRES	EASEMENTS TEMP ACRES	EASEMENTS PERM ACRES	EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
OED114	AMERICAN NATIONAL BANK TRUST COMPANY OF CHICAGO, TRUST NO. 28667	10.876 44017	0.534 2162	N/A	10.342 41855	N/A	N/A	N/A	30-29-206-051	



CURVE DATA TABLE

	20°11'25"	20°11'25"
Δ	20°11'25"	20°11'25"
R	6311.01'	1923.601 m
T	1123.61'	342.476 m
L	2223.91'	677.849 m
E	99.24'	30.249 m
P.C. STA.	242+13.45	7+380.276
P.T. STA.	264+37.36	8+058.124
P.I. STA.	253+37.06	7+722.752

- LEGEND (METRIC)**
- EXISTING CENTERLINE
 - - - PROPOSED CENTERLINE
 - - - EXISTING RIGHT OF WAY LINE
 - - - PROPOSED RIGHT OF WAY LINE
 - - - EXISTING EASEMENT LINE
 - - - SECTION LINE
 - - - QUARTER SECTION LINE
 - - - QUARTER QUARTER SECTION LINE
 - - - PROPERTY (DEED) LINE
 - - - APPI
 - - - APPARENT PROPERTY LINE
 - - - MEASURED DIMENSION
 - - - COMPUTED DIMENSION
 - - - RECORDED DIMENSION
 - - - FOUND IRON PIPE OR IRON ROD
 - - - SET 3/8 INCH IRON ROD
 - - - PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
 - - - CUT CROSS FOUND OR SET
 - - - SAME OWNERSHIP
 - - - EXISTING TELEPHONE SPLICE BOX
 - - - EXISTING STREET LIGHT
 - - - EXISTING MAIL BOX
 - - - EXISTING WELL HEAD
 - - - STAKING OF PROPOSED RIGHT OF WAY, SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
 - - - STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, SET 3/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
 - - - SECTION CORNER
 - - - QUARTER SECTION CORNER

STATE OF ILLINOIS)
) SS
 COUNTY OF WILL)

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 29, TOWNSHIP 36 NORTH, RANGE 15 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT OLIET, ILLINOIS THIS 20th DAY OF NOVEMBER, 2008.

Ronald F. Hodgen
 RONALD F. HODGEN P.L.S. NO. 2630

SEE SHEETS 24 & 25 FOR COORDINATE DATA AND REFERENCE TIES.

RUETTIGER, TONELLI & ASSOCIATES, INC.
Land Surveyors/Engineers/Planners/Landscape Architects/C.S. Consultants
 2174 OMEGA STREET
 JOLIET, ILLINOIS 60435
 PH. (815) 744-6600 FAX (815) 744-0101

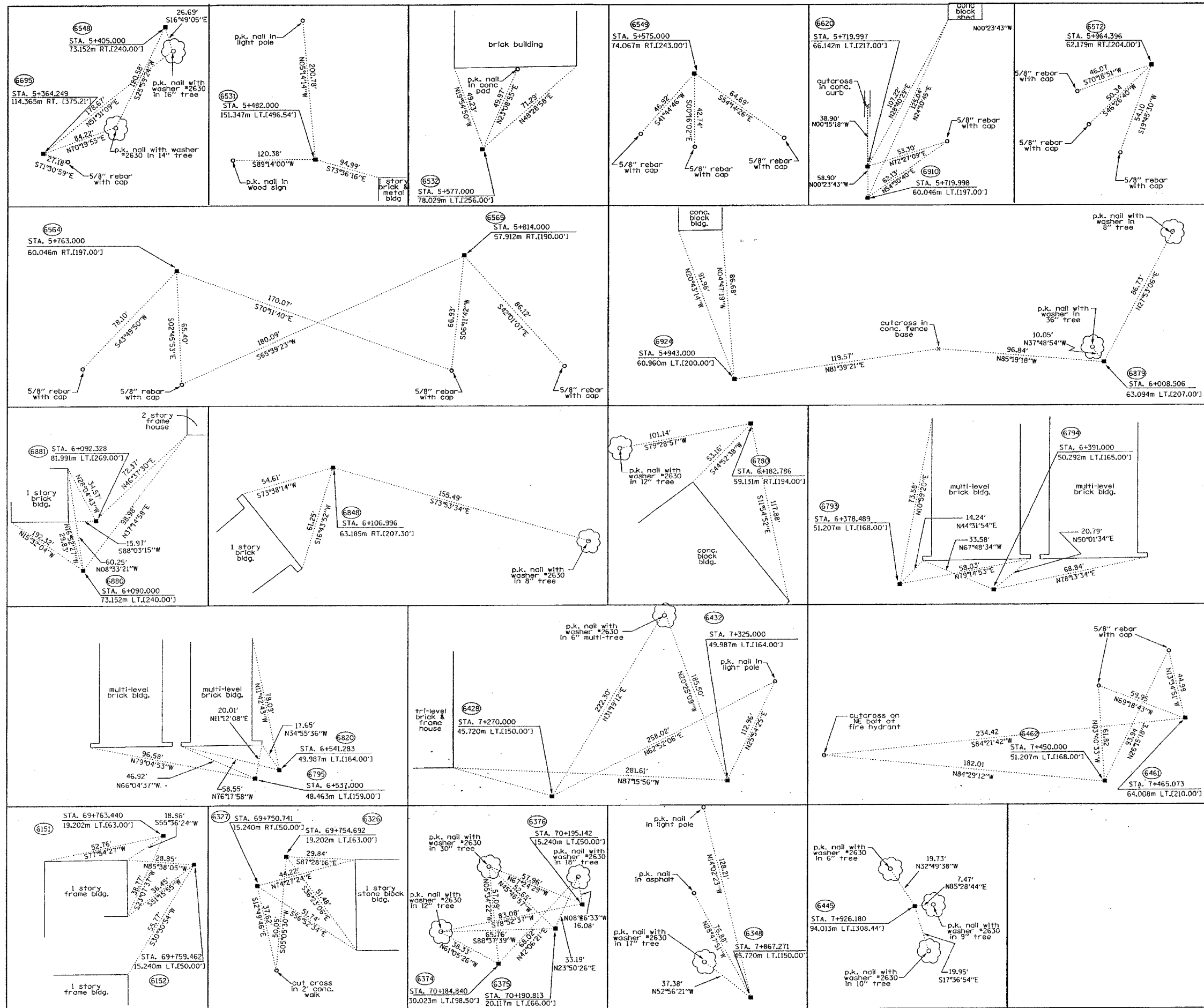
2830 SOUTH WASHINGTON STREET SUITE 170
 WASHINGTON, ILLINOIS 60696
 PH. (630) 420-7740 FAX (630) 420-7741

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
 FAI-80 (I-80/I-94)

COOK COUNTY
 JOB NO. R-90-010-01
 STATION 7+825 TO STATION 7+925

SHEET 18 OF 25

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/DISTRICT 1
 201 WEST CENTER COURT
 SCHAMBERG, ILLINOIS 60196



BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

- LEGEND**
- EXISTING CENTERLINE
 - PROPOSED CENTERLINE
 - EXISTING RIGHT OF WAY LINE
 - PROPOSED RIGHT OF WAY LINE
 - EXISTING EASEMENT LINE
 - SECTION LINE
 - QUARTER SECTION LINE
 - QUARTER QUARTER SECTION LINE
 - PROPERTY IDEED LINE
 - APPARENT PROPERTY LINE
 - APPL
 - 121.45 MEASURED DIMENSION
 - 123.45 (COMP) COMPUTED DIMENSION
 - (123.45) RECORDED DIMENSION
 - FOUND IRON PIPE OR IRON ROD
 - SET 1/2" IRON ROD PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
 - ⊕ CUT CROSS FOUND OR SET
 - SAME OWNERSHIP
 - TEL EXISTING TELEPHONE SPLICE BOX
 - LGT. EXISTING STREET LIGHT
 - MAIL BOX EXISTING MAIL BOX
 - WELL EXISTING WELL HEAD
 - STAKING OF PROPOSED RIGHT OF WAY, SET 3/4" INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
 - M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, SET 3/4" INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.



STATE OF ILLINOIS)
 COUNTY OF WILL) SS

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 29 & 30, TOWNSHIP 36 NORTH, RANGE 15 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT CHICAGO, ILLINOIS THIS 10th DAY OF NOVEMBER 2002

Ronald F. Hoogen
 RONALD F. HOOGEN P.L.S. NO. 2630

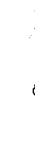
SEE SHEET 25 FOR COORDINATE DATA.

RUETTIGER, TONELLI & ASSOCIATES, INC.
 Land Surveyors/Engineers/Planners/Landscape Architects/C.L.S. Consultants
 214 OGDEN STREET SUITE 170
 JOLIET, ILLINOIS 60435
 PH. (815) 744-6600 FAX (815) 744-0101 PH. (630) 420-1740 FAX (630) 420-1741

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
 FAI-80 (I-80/I-94)
 COOK COUNTY
 JOB NO. R-90-010-01
 STATION TO STATION
 SHEET 24 OF 25

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/DISTRICT 1
 201 WEST CENTER COURT
 SCHMENGER, ILLINOIS 60166

BEARINGS SHOWN HEREON ARE BASED ON SURVEY CONTROL DATA AS PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.



COORDINATE TABLE - FEET

POINT #	NORTHING	EASTING
1	1789914.4442	1201417.8052
2	1789641.8652	1201550.7954
3	1789003.9774	1201434.6743
4	1789888.5373	1202169.1826
5	1789867.7421	1202797.4839
6	1789882.9340	1203773.3340
7	1789878.4491	1204314.5957
8	1789679.2418	1205332.6914
9	1791070.1360	1204053.1156
10	1788363.7730	1204172.5454
11	1789875.8113	1201080.4913
12	1789829.7274	1200573.3915
13	1789914.4132	1200112.5798
14	178950.9702	1199303.9633
15	1789894.9192	1198900.3368
16	1789821.4443	1198012.7018
17	1789838.5443	1197193.9957
18	1789565.5839	1196991.3666
19	1789560.9238	1199188.1775
20	1789553.1370	1199515.7126
21	1789578.2679	1200181.4058
22	1789587.2236	1200726.7964
211	1789030.4626	1204177.7085
212	1790336.6165	1204185.9493
411	1789592.7761	1204090.0325
6151	1788960.4365	1204065.4899
6152	1788947.5873	1204078.6922
6326	1788933.7077	1204191.9228
6327	1788920.5407	1204179.1270
6348	1789726.2940	1205082.7982
6374	1790342.2529	1204008.3937
6375	1790362.3565	1204040.5835
6376	1790376.8086	1204056.3596
6428	1789909.6258	1203100.4702
6432	1789925.6853	1203280.7445
6442	1789926.3685	1203340.5814
6444	1789825.2842	1205081.4078
6445	1789828.5904	1205316.7766
6461	1789970.6995	1203748.9811
6462	1789930.1811	1203696.8624
6528	1790190.1949	1197311.6142
6532	1789952.1985	1197545.1709
6539	1789962.9429	1197481.1811
6548	1789449.7876	1196986.5680
6549	1789453.1561	1197544.3079
6564	1789506.1956	1198160.5385
6565	1789515.1057	1198327.7707
6572	1789506.7405	1198821.3215
6620	1789918.5577	1198014.7347
6695	1789313.0580	1196854.4236
6703	1790055.1841	1197311.6142
6704	1790056.3059	1197400.0548
6707	1790004.8946	1197480.6912
6708	1790003.8796	1197400.6713
6780	1789524.9208	1199537.6622
6793	1789894.2283	1200175.5568
6794	1789891.6972	1200216.6349
6795	1789891.1668	1200695.6732
6820	1789896.3269	1200709.6659
6848	1789508.7816	1199289.1755
6879	1789919.3661	1198961.3381
6880	1789955.4167	1199228.3119
6881	1789984.5020	1199235.6174
6910	1789898.5591	1198014.9682
6924	1789909.9126	1198746.5171
6983	1789514.4913	1199412.5832
7008	1783453.1653	1203536.0141

COORDINATE TABLE - METERS

POINT #	NORTHING	EASTING
1	545567.0137	366192.8794
2	545483.9315	366233.4149
3	545289.5029	366198.0211
4	545559.1173	366421.8997
5	545552.7789	366613.4063
6	545557.4094	366910.8460
7	545556.0424	367075.8229
8	545495.3239	367386.1391
9	545919.2693	366996.1236
10	545094.3682	367032.5259
11	545555.2384	366090.0659
12	545541.1920	365935.5016
13	545567.0043	365795.0459
14	545578.1469	365548.5791
15	545561.0625	365425.5535
16	545538.6673	365155.0018
17	545543.8794	364905.4597
18	545460.6809	364843.6982
19	545459.2605	365513.2875
20	545456.8871	365613.1204
21	545464.5470	365816.0241
22	545467.2767	365982.2595
211	545297.5756	367034.0996
212	545695.6921	367036.6114
411	545468.9691	367007.3759
6151	545276.2316	366999.8953
6152	545272.3151	367003.9194
6326	545268.0847	367038.4321
6327	545264.0713	367034.5320
6348	545509.6654	367309.9715
6374	545697.4101	366982.4924
6375	545703.5377	366992.3038
6376	545707.9427	366997.1124
6428	545565.5451	366705.7567
6432	545570.4400	366760.7045
6442	545570.6483	366778.9428
6444	545539.8377	367309.5477
6445	545540.8454	367381.2883
6461	545584.1604	366903.4232
6462	545571.8103	366887.5374
6528	545651.0627	364941.3099
6532	545578.5212	365012.4981
6539	545581.7962	364992.9940
6548	545425.3861	364842.2356
6549	545426.4128	365012.2351
6564	545442.5793	365200.0625
6565	545445.2951	365251.0350
6572	545442.7454	365401.4696
6620	545568.2675	365155.6215
6695	545383.7109	364801.9579
6703	545609.9113	364941.3099
6704	545610.2533	364968.2666
6707	545594.5831	364992.8447
6708	545594.2737	364968.4546
6780	545448.2868	365619.8107
6793	545560.8519	365814.2413
6794	545560.0804	365826.7620
6795	545559.9188	365972.7731
6820	545561.4916	365977.0381
6848	545443.3675	365544.0718
6879	545568.5139	365444.1467
6880	545579.5022	365525.5205
6881	545588.3674	365527.7472
6910	545562.1719	365155.6926
6924	545565.6325	365378.6692
6983	545445.1078	365581.6865
7008	543597.6120	366838.5108

LEGEND

- EXISTING CENTERLINE
- - - PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- - - PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT LINE
- - - SECTION LINE
- QUARTER SECTION LINE
- - - QUARTER QUARTER SECTION LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- 121.45 MEASURED DIMENSION
- 123.45 (COMP) COMPUTED DIMENSION
- (123.45) RECORDED DIMENSION
- SET 3/4 INCH IRON ROD
- FOUND IRON PIPE OR IRON ROD
- PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- ⊕ CUT CROSS FOUND OR SET
- SAME OWNERSHIP
- TEL EXISTING TELEPHONE SPLICE BOX
- LG EXISTING STREET LIGHT
- MAIL EXISTING MAIL BOX
- WELL EXISTING WELL HEAD
- STAKING OF PROPOSED RIGHT OF WAY. SET 3/4 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. SET 3/4 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY MARKER 20 INCHES BELOW GROUND SURFACE TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.



STATE OF ILLINOIS)
) SS
COUNTY OF WILL)

THIS IS TO CERTIFY THAT RUETTIGER, TONELLI & ASSOCIATES, INC., AN ILLINOIS DESIGN FIRM, HAS SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 29 & 30, TOWNSHIP 36 NORTH, RANGE 15 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS 27th DAY OF NOVEMBER, 2002
Ronald F. Hodgen
 RONALD F. HODGEN P.L.S. NO. 2630

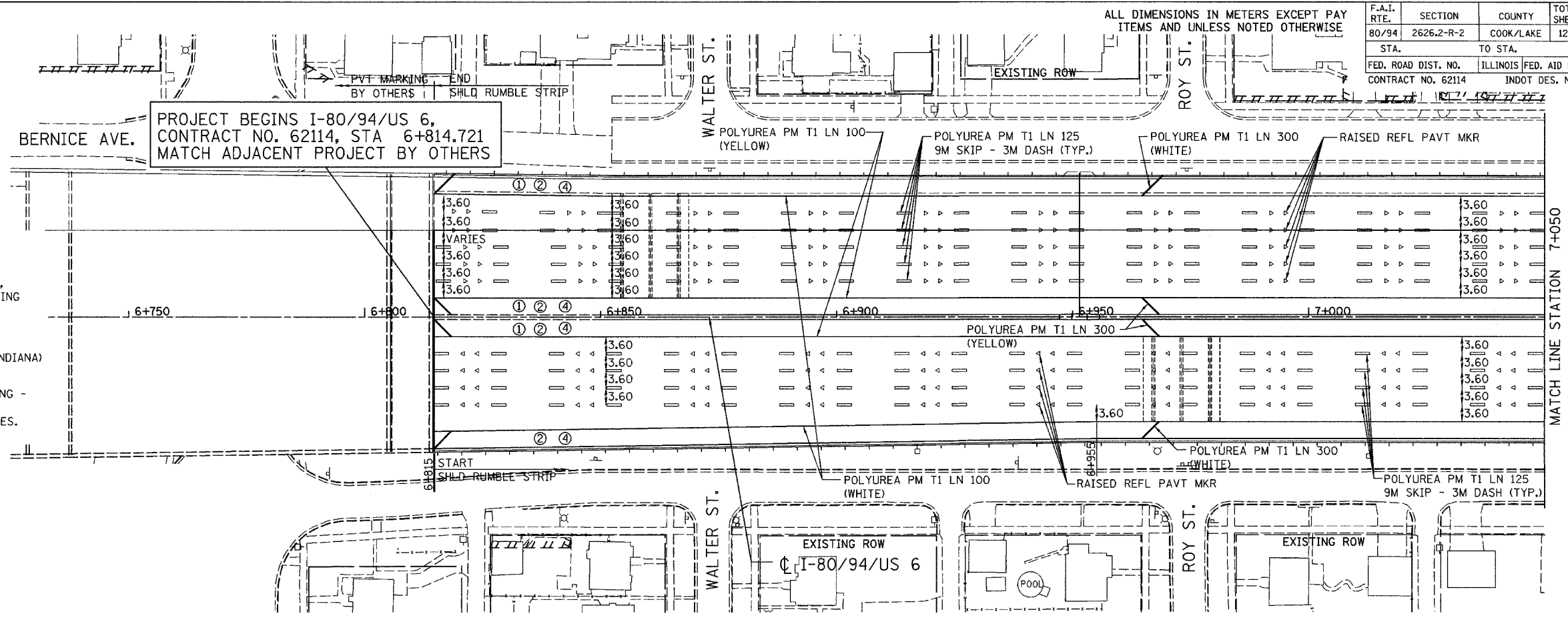
SEE SHEET 24 FOR REFERENCE TIES.

RUETTIGER, TONELLI & ASSOCIATES, INC.
 Lead Surveyors/Engineers/Planners/Landscape Architects/L.S. Consultants
 214 OGDEN STREET 2630 SOUTH WASHINGTON STREET SUITE 170
 JOLIET, ILLINOIS 60438 HAWKERSVILLE, ILLINOIS 60466
 PH (815) 744-6600 FAX (815) 744-0001 PH (630) 420-7740 FAX (630) 420-7741

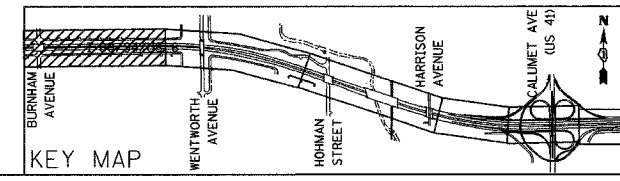
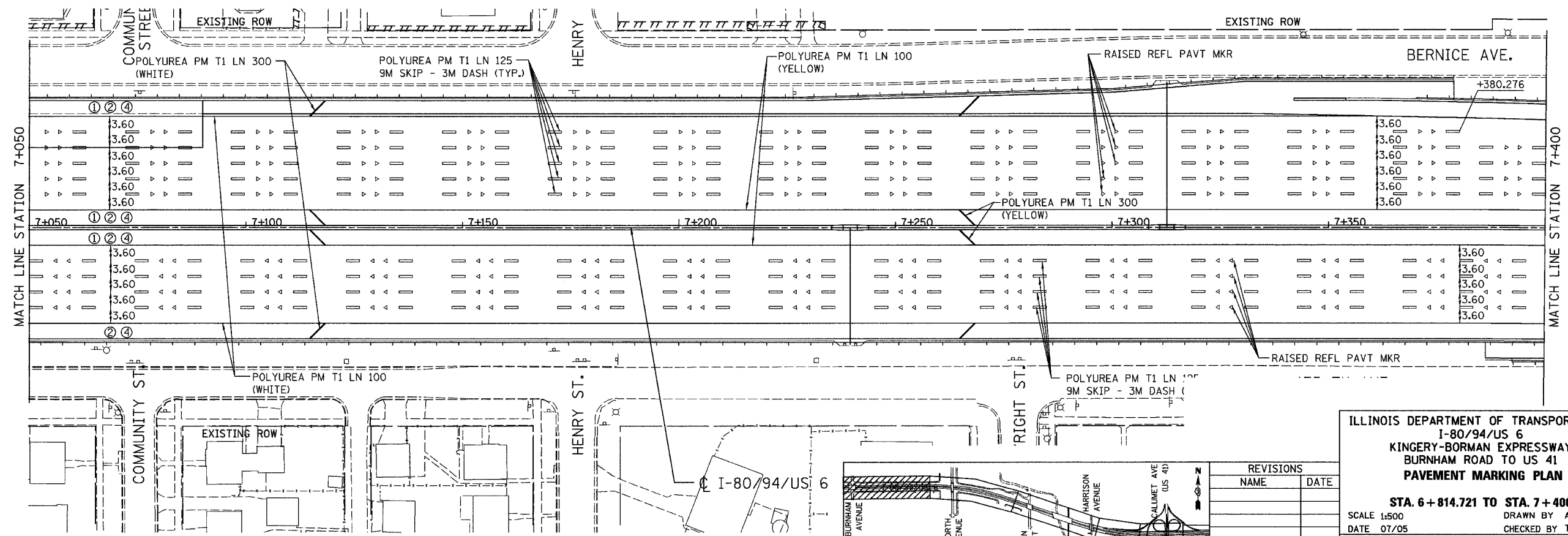
ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 FAI-80 (I-80/I-94)
 COOK COUNTY
 JOB NO. R-90-010-01
 STATION TO STATION

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/DISTRICT 1
 201 WEST CENTER COURT
 SCHAMBERG, ILLINOIS 60196

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	340
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



- LEGEND**
- ① BARRIER WALL MARKERS, TYPE C AT 120 M SPACING
 - ② RUMBLE STRIP
 - ③ BARRIER DELINEATOR (INDIANA) AT 12 M SPACING.
 - ④ PAINT PAVEMENT MARKING - LINE 125MM (SPECIAL) AT DRAINAGE STRUCTURES.



REVISIONS	
NAME	DATE

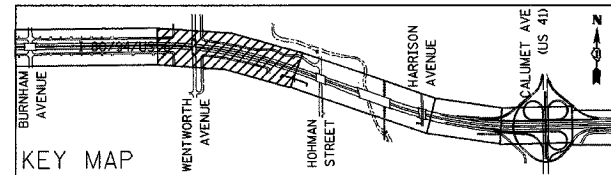
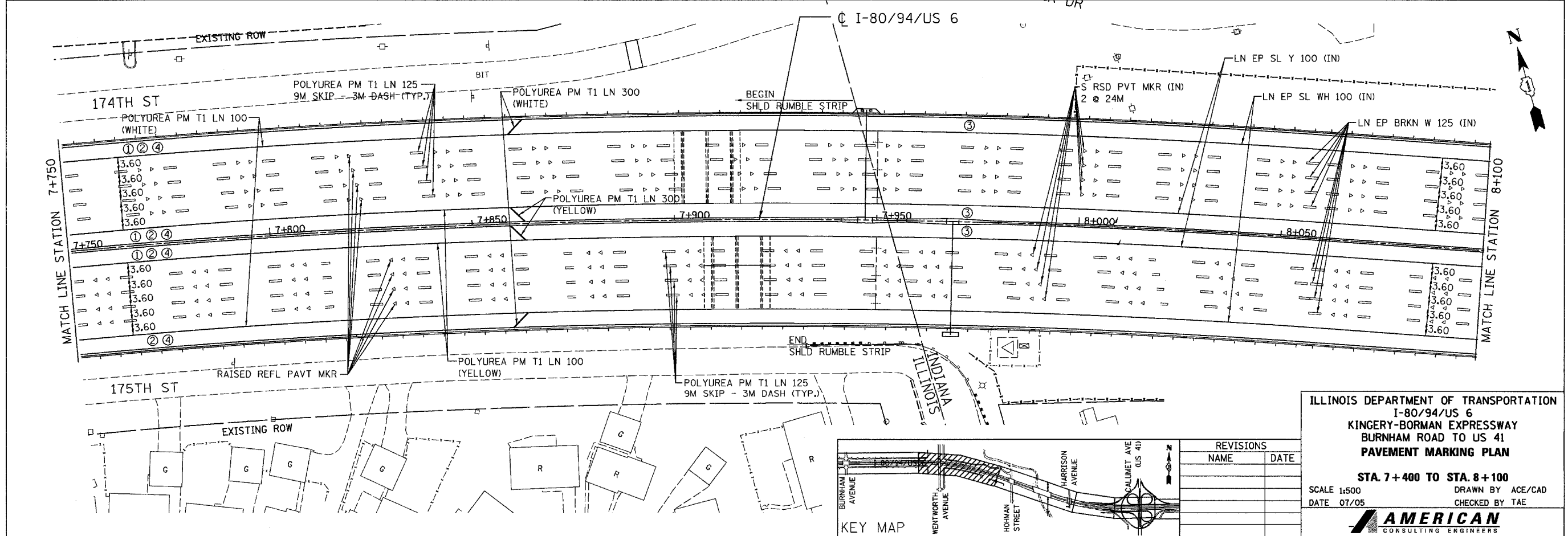
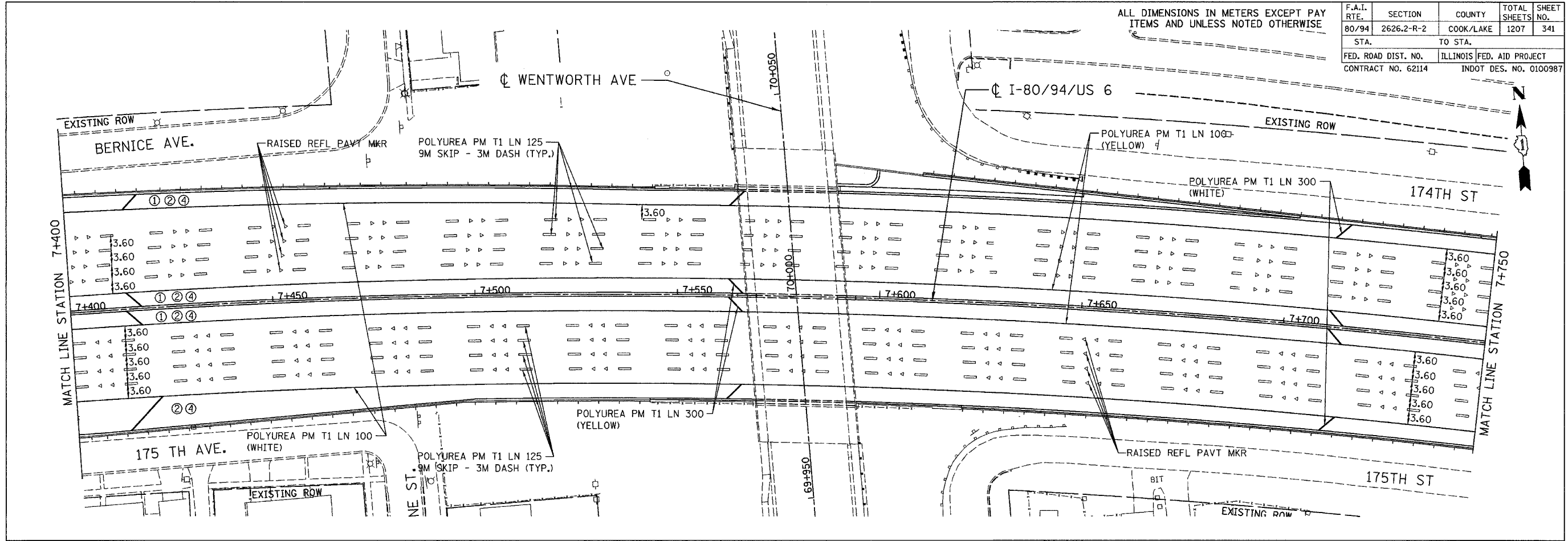
ILLINOIS DEPARTMENT OF TRANSPORTATION
 I-80/94/US 6
 KINGERY-BORMAN EXPRESSWAY
 BURNHAM ROAD TO US 41
PAVEMENT MARKING PLAN

STA. 6 + 814.721 TO STA. 7 + 400
 SCALE 1:500 DRAWN BY ACE/CAD
 DATE 07/05 CHECKED BY TAE

AMERICAN
 CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	341
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 I-80/94/US 6
 KINGERY-BORMAN EXPRESSWAY
 BURNHAM ROAD TO US 41
PAVEMENT MARKING PLAN

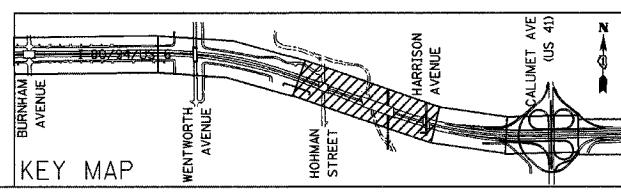
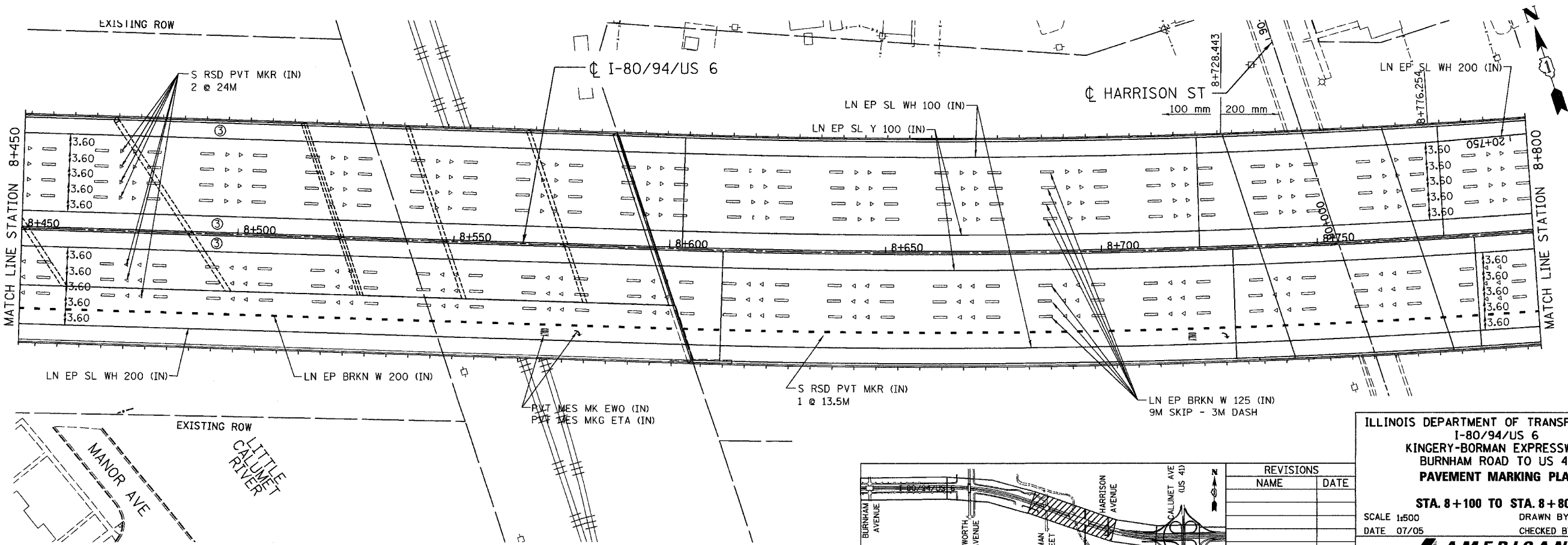
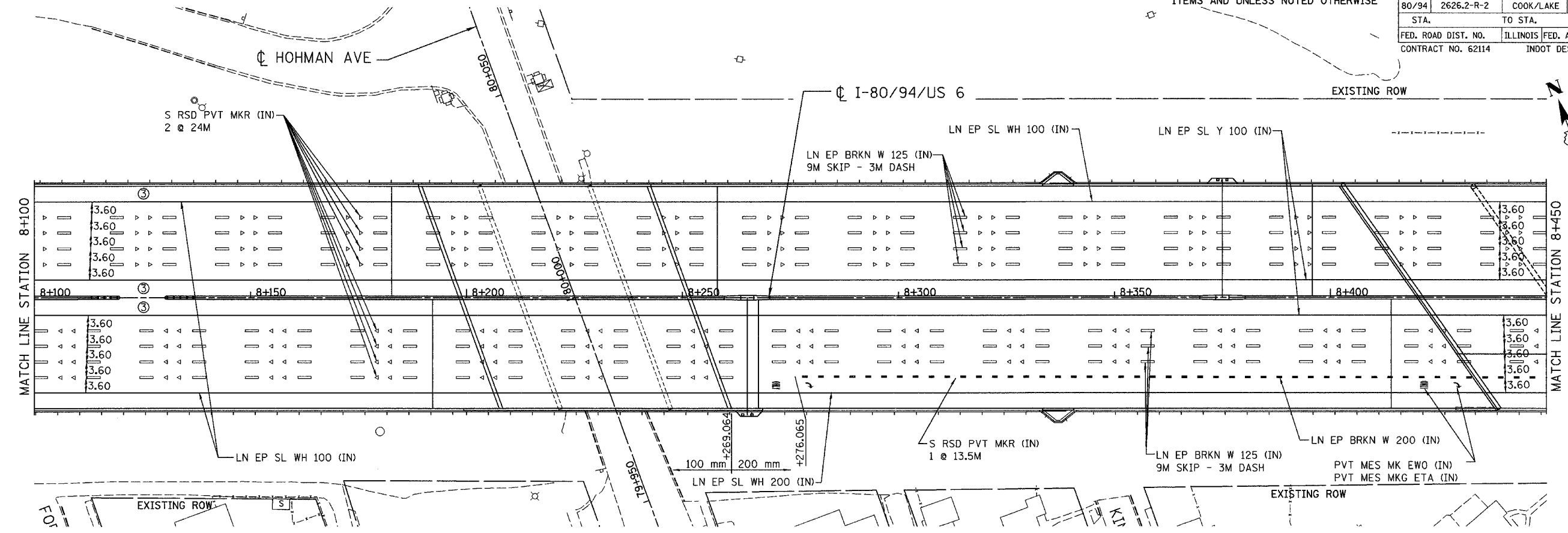
STA. 7+400 TO STA. 8+100

SCALE 1:500 DRAWN BY ACE/CAD
 DATE 07/05 CHECKED BY TAE

AMERICAN
 CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAVEMENT MARKING ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	342
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS		FED. AID PROJECT	
CONTRACT NO. 62114	INDOT DES. NO. 0100987			

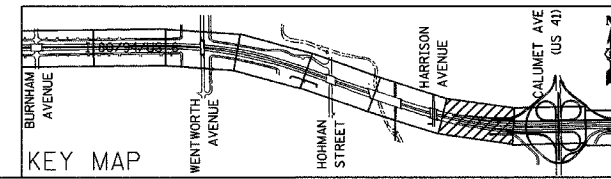
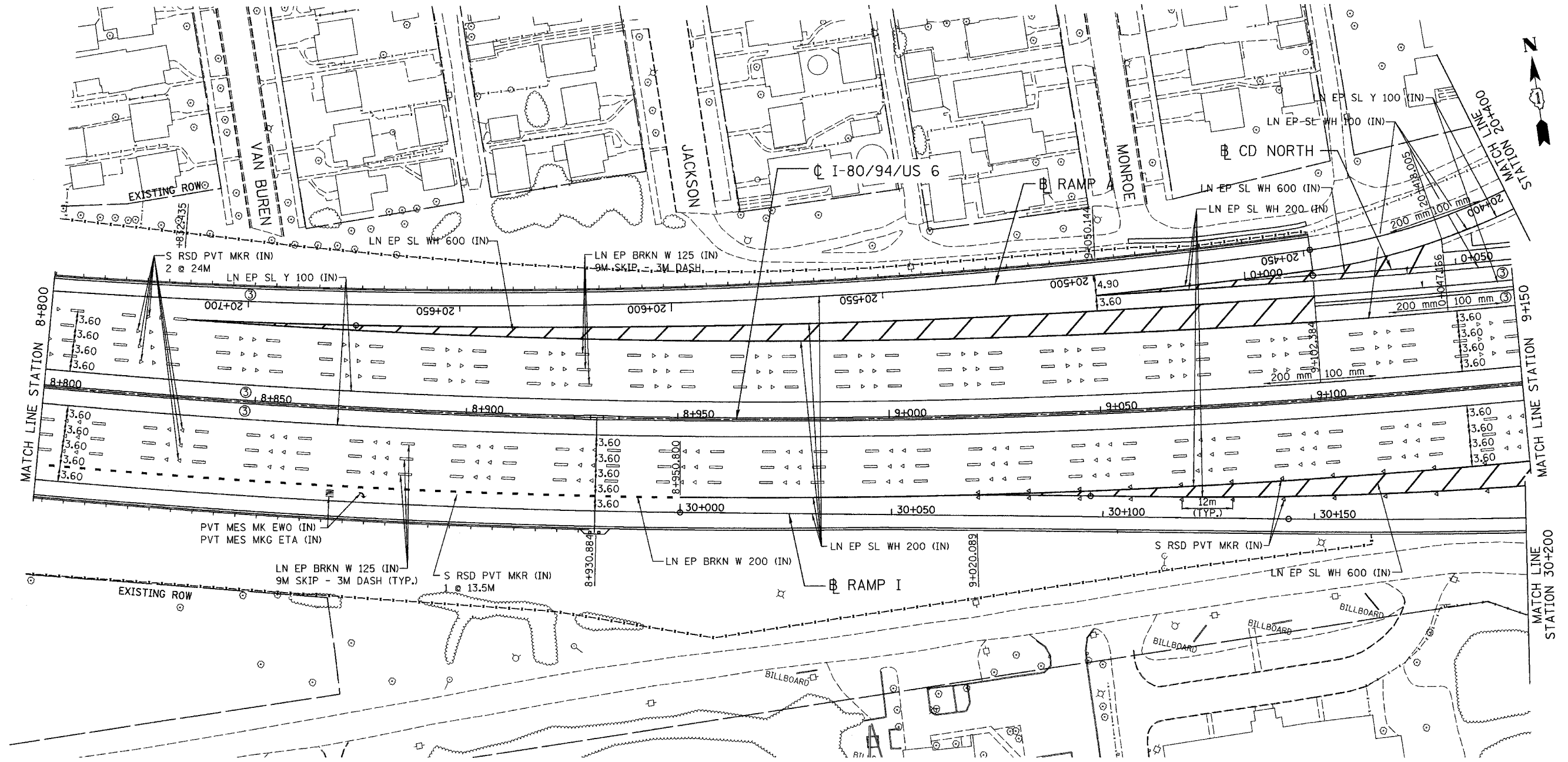


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 I-80/94/US 6
 KINGERY-BORMAN EXPRESSWAY
 BURNHAM ROAD TO US 41
PAVEMENT MARKING PLAN
 STA. 8+100 TO STA. 8+800
 SCALE 1:500
 DATE 07/05
 DRAWN BY ACE/CAD
 CHECKED BY TAE

ALL DIMENSIONS IN METERS EXCEPT PAV
ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	343
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
PAVEMENT MARKING PLAN

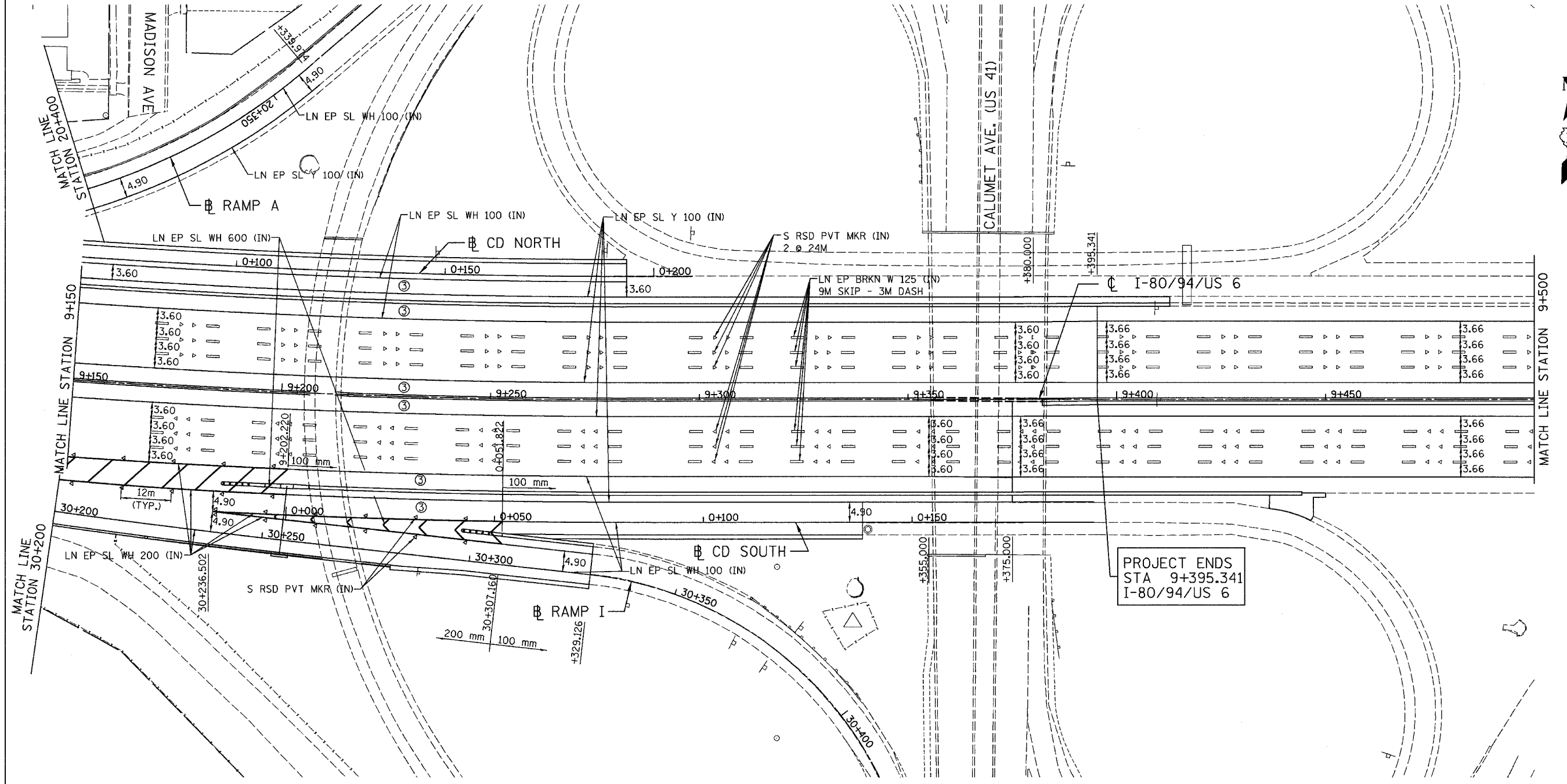
STA. 8+800 TO STA. 9+150
SCALE 1:500
DATE 07/05

DRAWN BY ACE/CAD
CHECKED BY TAE

AMERICAN
CONSULTING ENGINEERS

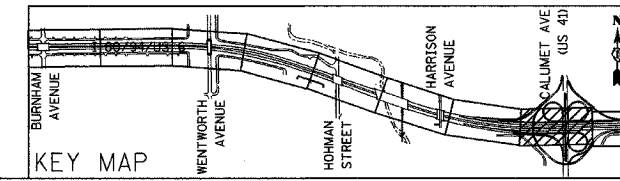
ALL DIMENSIONS IN METERS EXCEPT PAVEMENT MARKING ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	344
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



PROJECT ENDS
STA 9+395.341
I-80/94/US 6

NOTE: IF 3 EASTBOUND LANES EAST OF PROJECT LIMITS ARE OPEN THE CONTRACTOR SHALL COORDINATE LOCATION OF LANE DROP WITH INDOT.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
PAVEMENT MARKING PLAN

STA. 9+150 TO STA. 9+500

SCALE 1:500
DATE 07/05

DRAWN BY ACE/CAD
CHECKED BY TAE

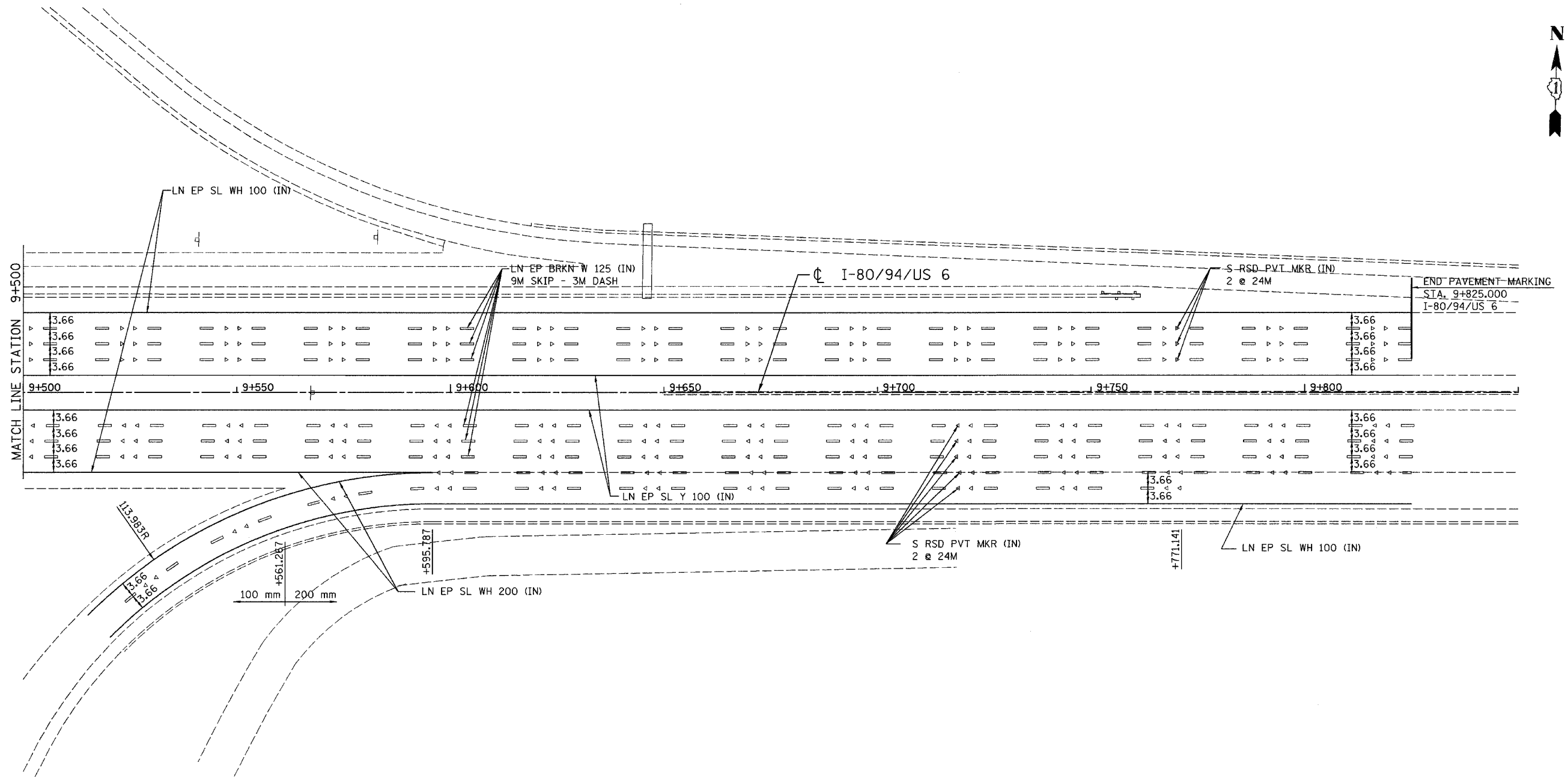
AMERICAN
CONSULTING ENGINEERS



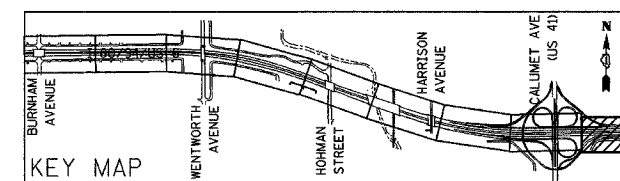
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ALL DIMENSIONS IN METERS EXCEPT PAVEMENT MARKING ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	345
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



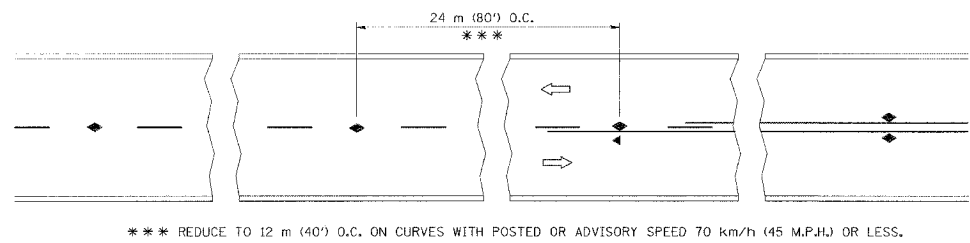
NOTE: IF 3 EASTBOUND LANES EAST OF PROJECT LIMITS ARE OPEN THE CONTRACTOR SHALL COORDINATE LOCATION OF LANE DROP WITH INDOT.



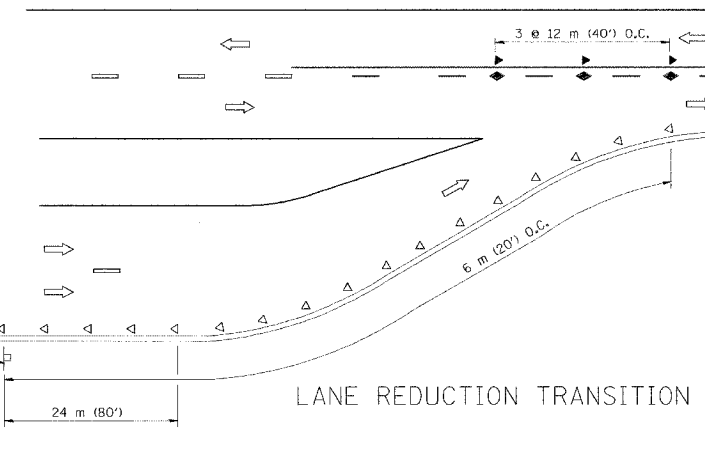
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 I-80/94/US 6
 KINGERY-BORMAN EXPRESSWAY
 BURNHAM ROAD TO US 41
PAVEMENT MARKING PLAN
STA. 9+500 TO STA. 9+850
 SCALE 1:500 DRAWN BY ACE/CAD
 DATE 07/05 CHECKED BY TAE

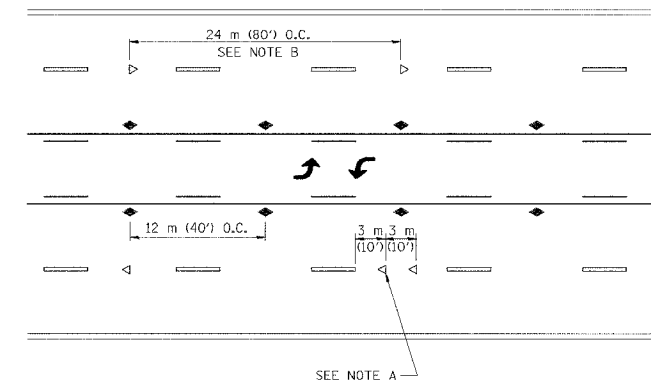
F. A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8094	2828.2-R-2	COOK/LAKE	1207	346
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100087		



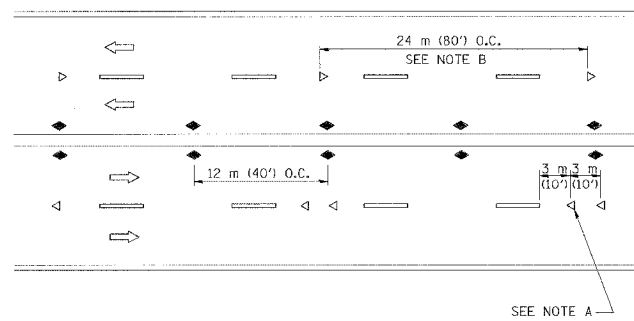
TWO-LANE/TWO-WAY



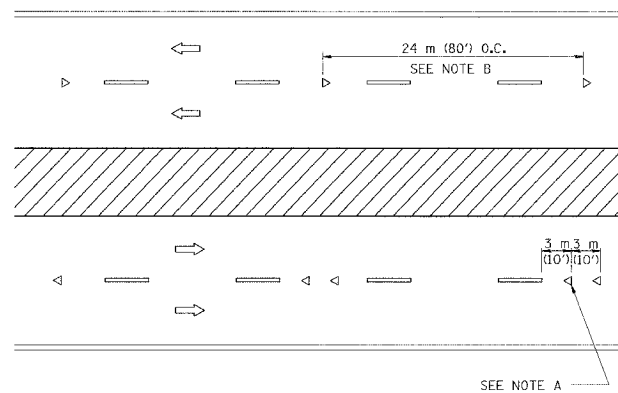
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

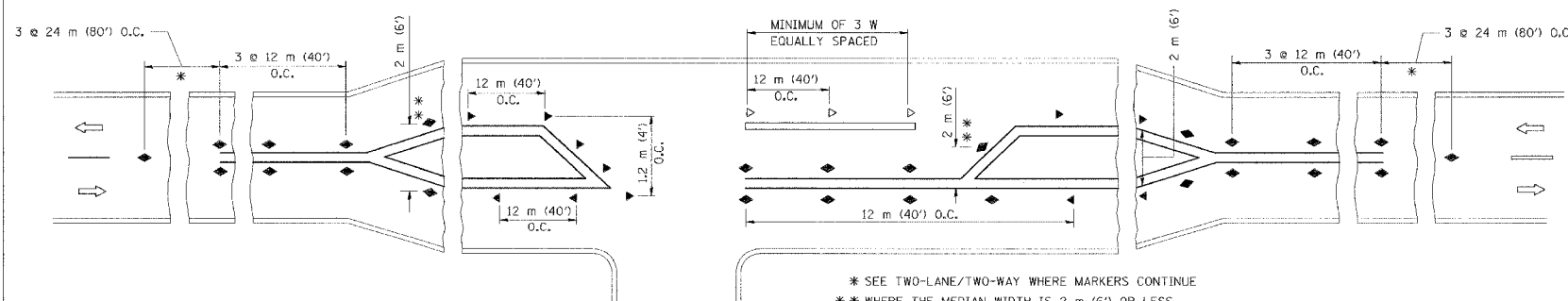
1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 50 TO 75 (2 TO 3) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 150 m (500') IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- B. REDUCE TO 12 m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 20 km/h (10 M.P.H.) LOWER THAN POSTED SPEEDS.
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.



LEFT TURN

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 2 m (6') OR LESS USE TWO-WAY MARKERS.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS
 (SNOW-PLOW RESISTANT)

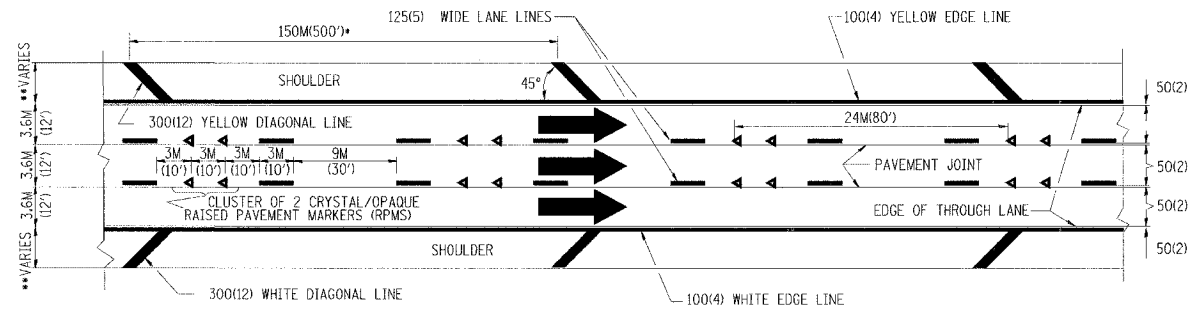
REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00

SCALE: NONE
 DATE: 02/01/2002

DRAWN BY CADD
 CHECKED BY

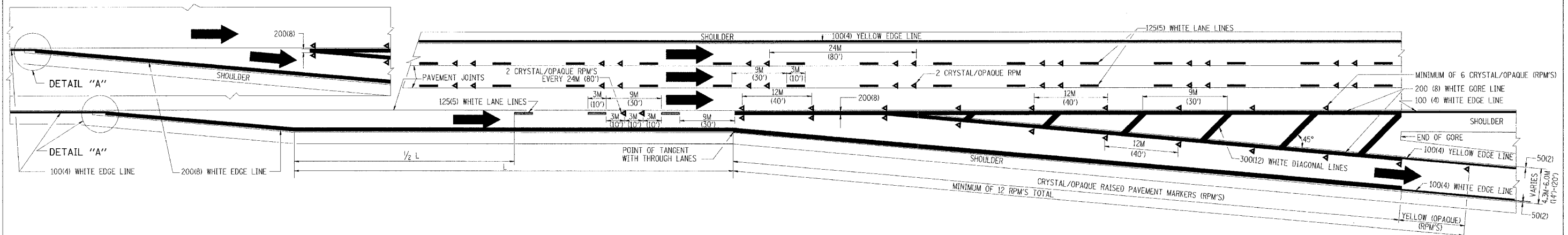
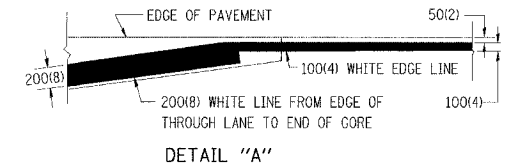
F. A. REG.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2828 2-R-2	COOK/LAKE	1207	347
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	TOD. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100887		

- THE DIAGONAL LINES SHALL BE SPACED AT 12M (40') C-C ACROSS ALL STRUCTURES WHICH ARE 150M (500') OR LESS IN LENGTH
- THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 1.8M (6') OR LESS IN WIDTH

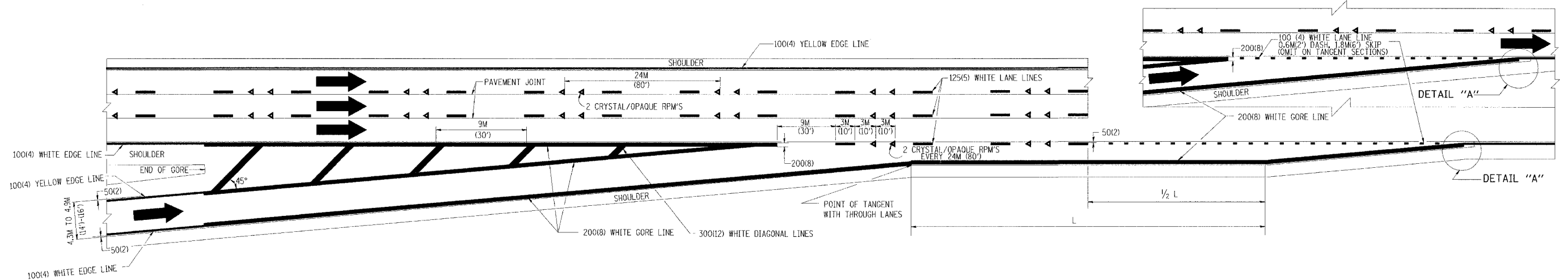


TYPICAL EDGE LINES & LANE LINES

- NOTES:
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
 2. PREFORMED PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR ALL LANE LINES
 3. PREFORMED PLASTIC PAVEMENT MARKING LINE SHALL BE USED ON PCC PAVEMENT.



TYPICAL EXIT RAMP PAVEMENT MARKINGS



TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS

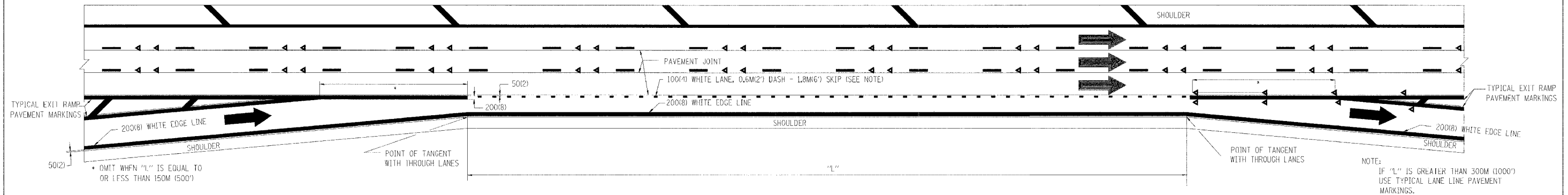
REVISIONS	
NAME	DATE
DWS	1/90
DWS	5/91
AH	3/96
DWS	7/96

ILLINOIS DEPARTMENT OF TRANSPORTATION

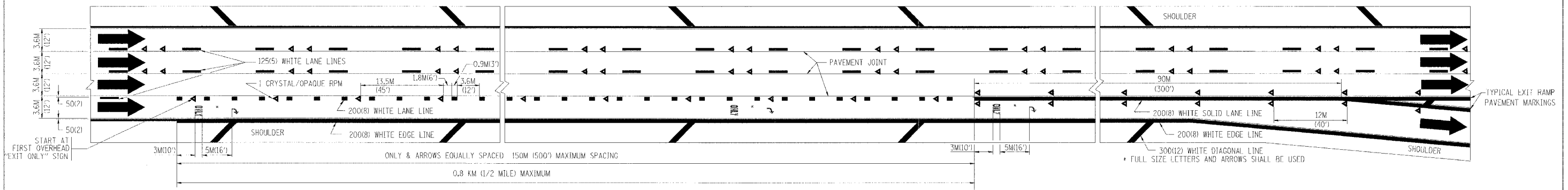
**MULTI-LANE FREEWAY
PAVEMENT MARKING
DETAILS**

SCALE: NONE DRAWN BY C.A.D.D.
DATE: **DATE** CHECKED BY

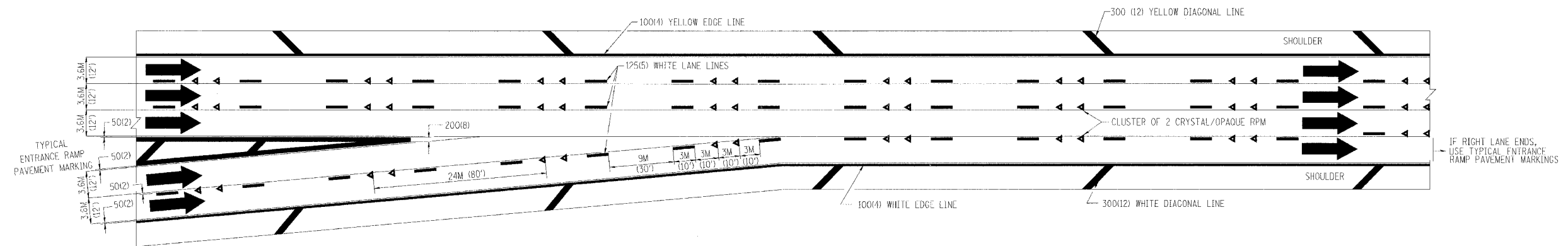
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STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100867		



TYPICAL ENTRANCE/EXIT RAMP COMBINATION PAVEMENT MARKINGS



TYPICAL EXIT ONLY LANE PAVEMENT MARKINGS



TYPICAL TWO LANE ENTRANCE RAMP PAVEMENT MARKINGS

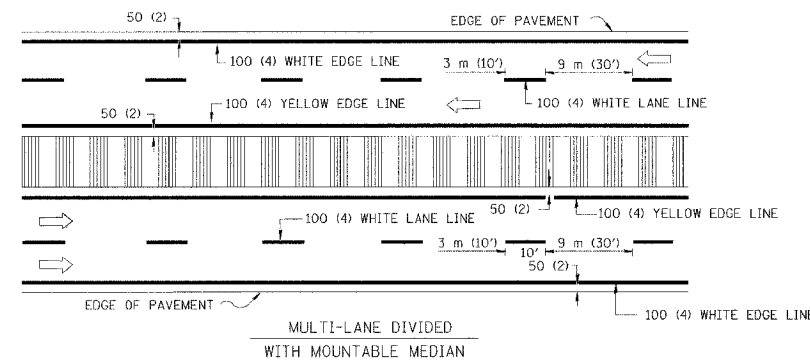
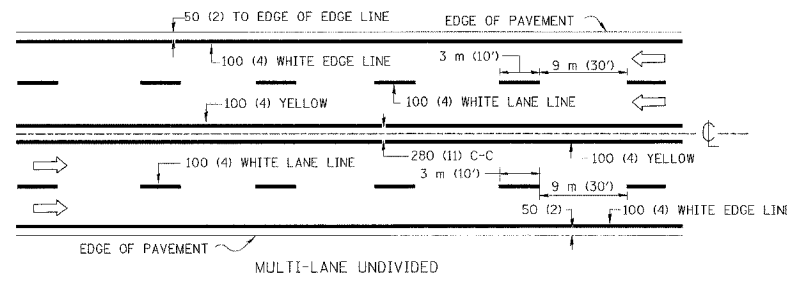
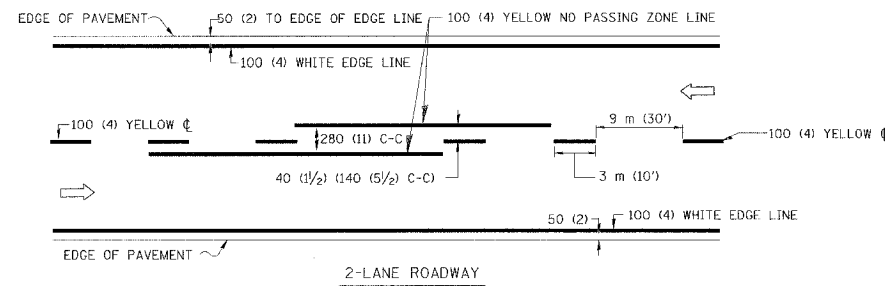
REVISIONS	
NAME	DATE
DWS	1/90
DWS	5/91

ILLINOIS DEPARTMENT OF TRANSPORTATION

**MULTI-LANE FREEWAY
PAVEMENT MARKING
DETAILS**

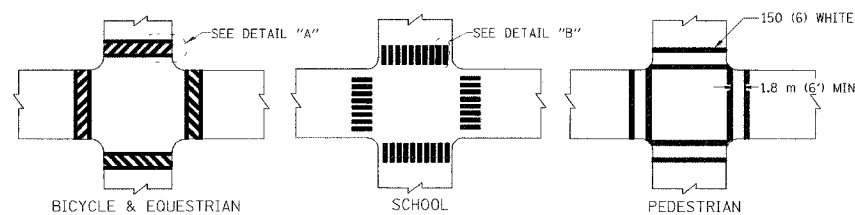
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DATE: **DATE**

DRAWN BY C.A.D.D.
CHECKED BY

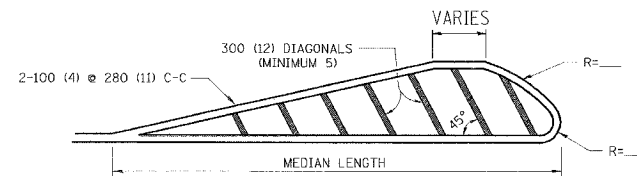
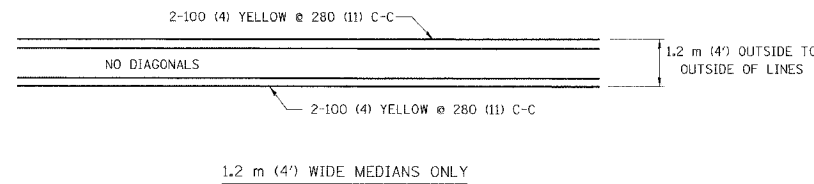


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING



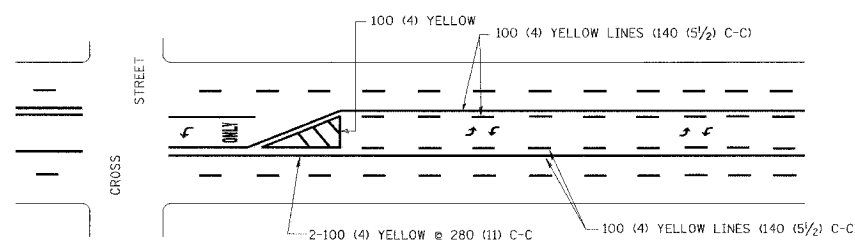
TYPICAL CROSSWALK MARKING



FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 15 m (50') C-C (LESS THAN 50 km/h (30 MPH))
25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH))
45 m (150') C-C (MORE THAN 70 km/h (45 MPH))

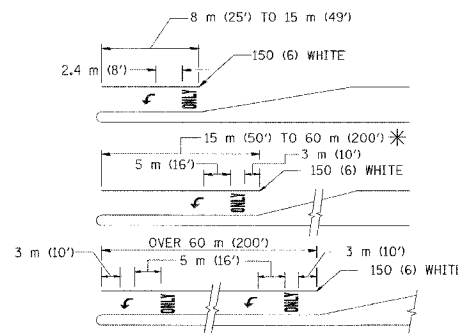
MEDIANS OVER 1.2 m (4') WIDE



A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 60 m (200') TO 90 m (300') INTERVALS.

MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

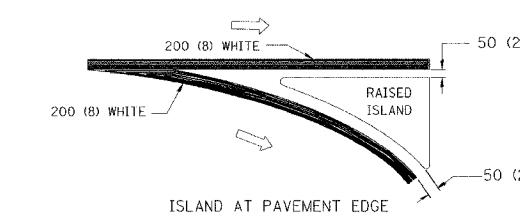
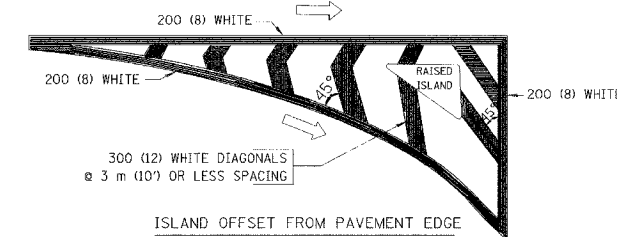


FULL SIZE LETTERS 2.4 m (8') AND ARROWS SHALL BE USED.
AREA = 1.5 m² (15.6 SQ. FT.) ONLY AREA = 1.9 m² (20.8 SQ. FT.)

* TURN LANES IN EXCESS OF 120 m (400') IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4)	SKIP-DASH	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 100 (4)	SOLID	YELLOW	280 (11) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	100 (4) 2 @ 100 (4)	SOLID SOLID	YELLOW YELLOW	140 (5 1/2) C-C FROM SKIP-DASH CENTERLINE 280 (11) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	3 m (10') LINE WITH 9 m (30') SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	600 (2') LINE WITH 1.8 m (6') SPACE
EDGE LINES	100 (4)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6) LINE; FULL SIZE LETTERS & SYMBOLS (2.4 m (8'))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 100 (4) EACH DIRECTION 2.4 m (8') LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	3 m (10') LINE WITH 9 m (30') SPACE FOR SKIP-DASH; 140 (5 1/2) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 150 (6) 300 (12) @ 45° 300 (12) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (2') APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m (4') IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 100 (4) WITH 300 (12) DIAGONALS @ 45° NO DIAGONALS USED FOR 1.2 m (4') WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	280 (11) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 4.5 m (15') C-C (LESS THAN 50 km/h (30 MPH)) 6 m (20') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 9 m (30') C-C (OVER 70 km/h (45 MPH))
RAILROAD CROSSING	600 (24) TRANSVERSE LINES; "RR" IS 1.8 m (6') LETTERS; 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=0.33m ² (3.6 SQ. FT.) EACH "X"=5.0 m ² (54.0 SQ. FT.)
SHOULDER DIAGONALS	15 m (50') C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 45 m (150') C-C (OVER 70 km/h (45 MPH))	SOLID	WHITE - RIGHT YELLOW - LEFT	

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE TYPICAL PAVEMENT MARKINGS

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

SCALE: NONE

DRAWN BY CADD

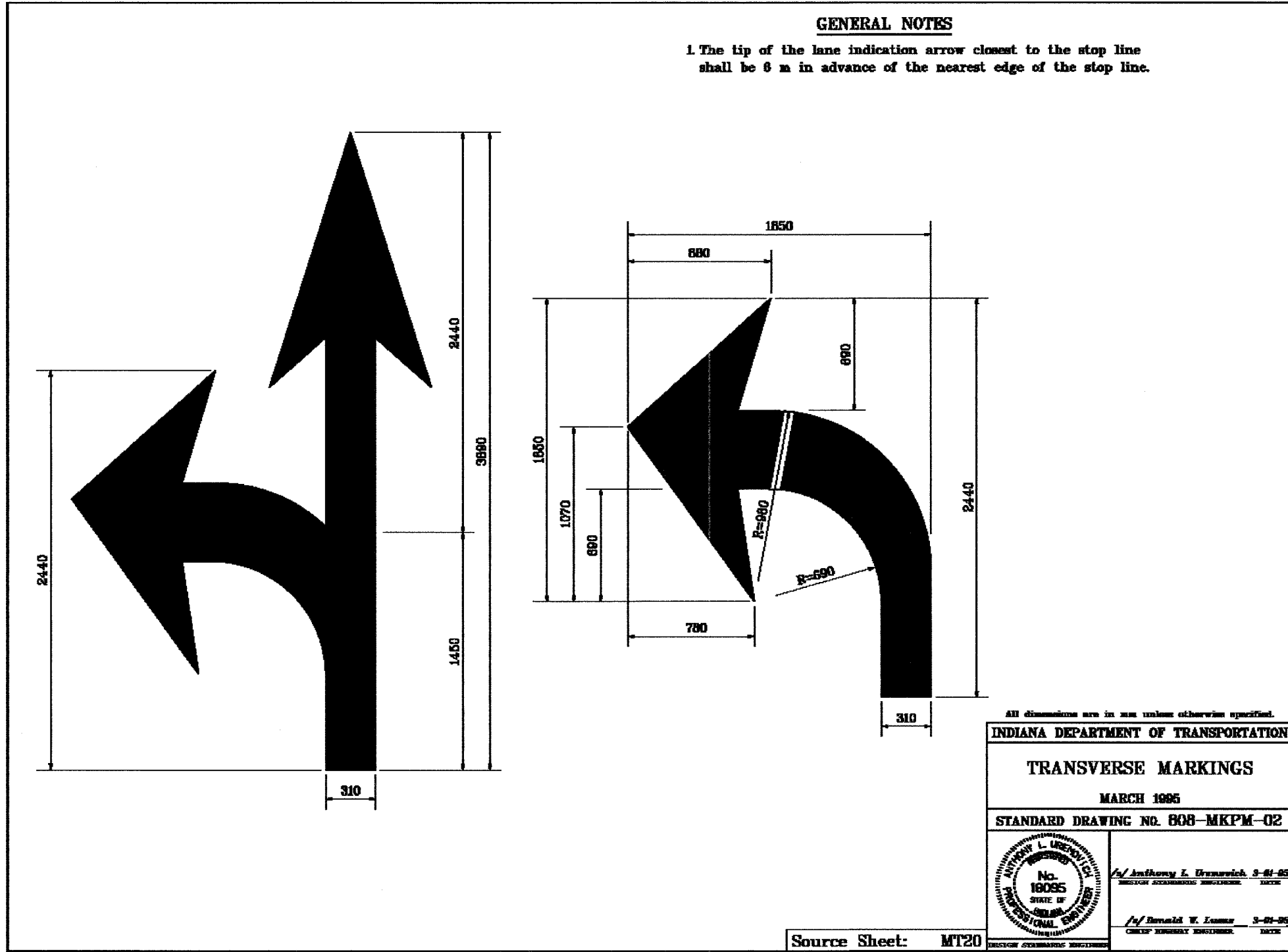
DATE ##DATE##

CHECKED BY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	350
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			

GENERAL NOTES

1. The tip of the lane indication arrow closest to the stop line shall be 6 m in advance of the nearest edge of the stop line.



All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION

TRANSVERSE MARKINGS

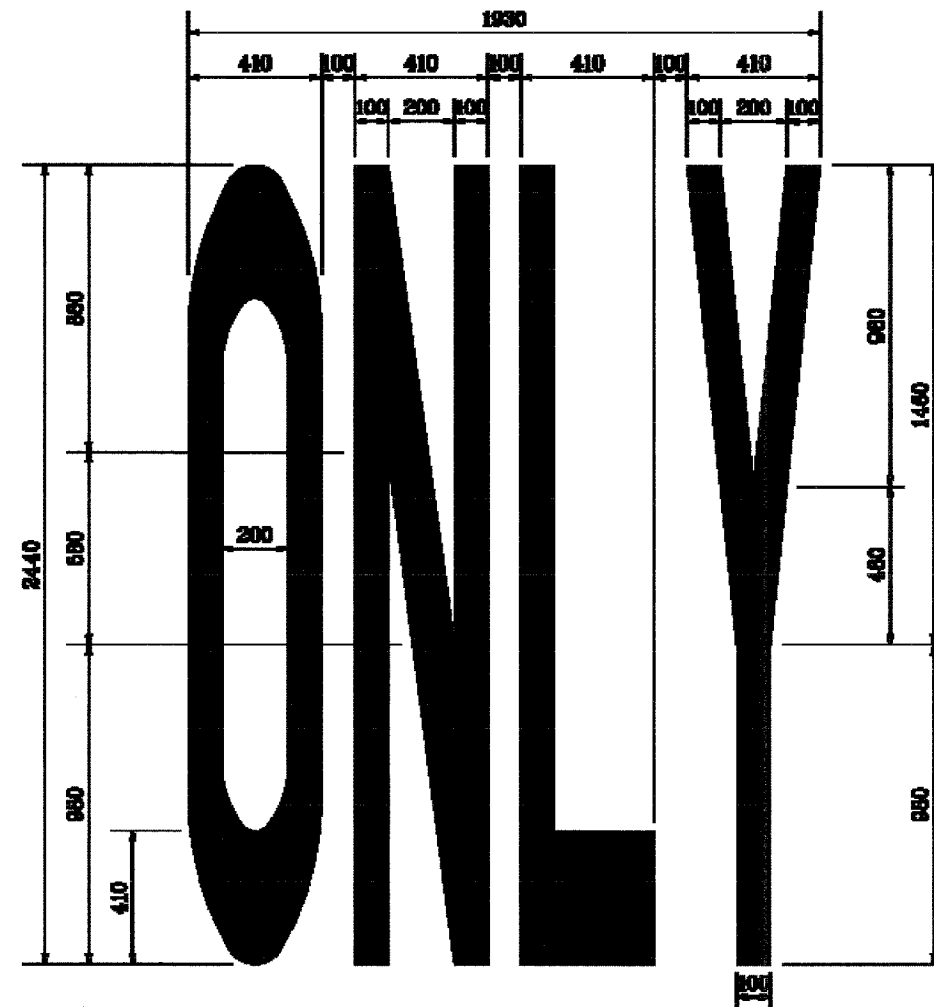
MARCH 1995

STANDARD DRAWING NO. 608-MKPM-02

	/s/ Anthony L. Uresowich 3-81-95 REGISTERED PROFESSIONAL ENGINEER
	/s/ Ronald W. Lucas 3-81-95 REGISTERED PROFESSIONAL ENGINEER

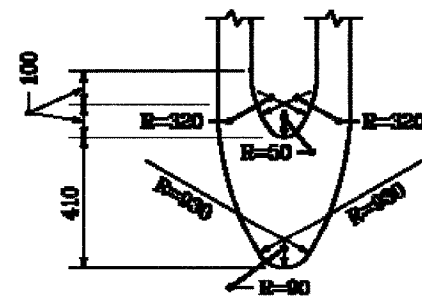
Source Sheet: MT20

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	351
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



GENERAL NOTES

1. The top edge of the word ONLY shall be located in advance of the back edge of the lane indication arrow, at least 4 times the height of the characters for posted speed \leq 45 mph but not more than 10 times the height of the characters for posted speed $>$ 45 mph
2. Horizontal strokes are 410 wide. Vertical strokes are 100 mm wide.



DETAILS FOR "O"

All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION

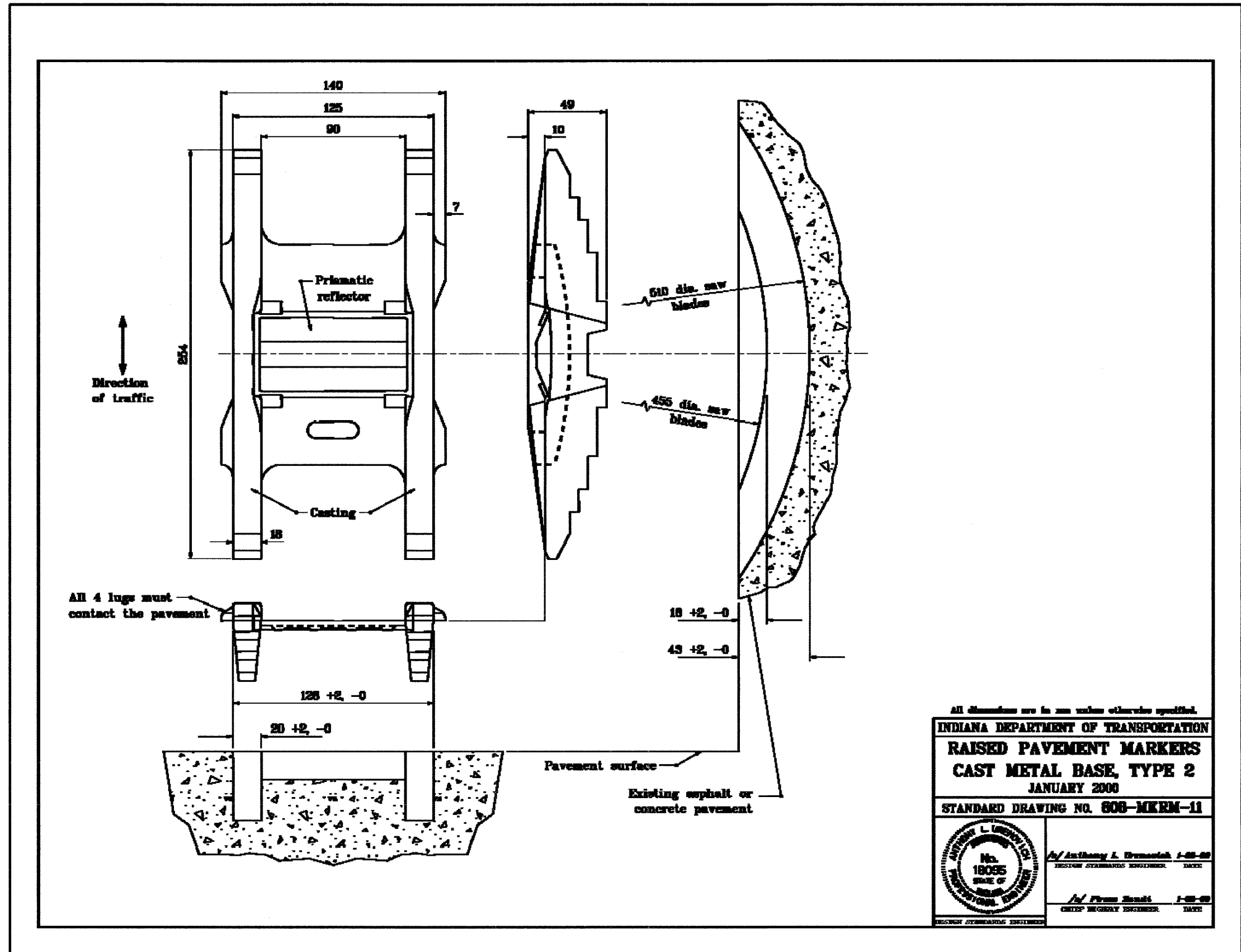
TRANSVERSE MARKINGS

JANUARY 2000

STANDARD DRAWING NO. 000-MKPM-03

	<i>/s/ Anthony L. Stenmark</i> (1-03-00) DESIGN GEOMETRIC ENGINEER SECT:
	<i>/s/ Pawan Khandel</i> (1-03-00) CHIEF HIGHWAY ENGINEER SECT:

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	352
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



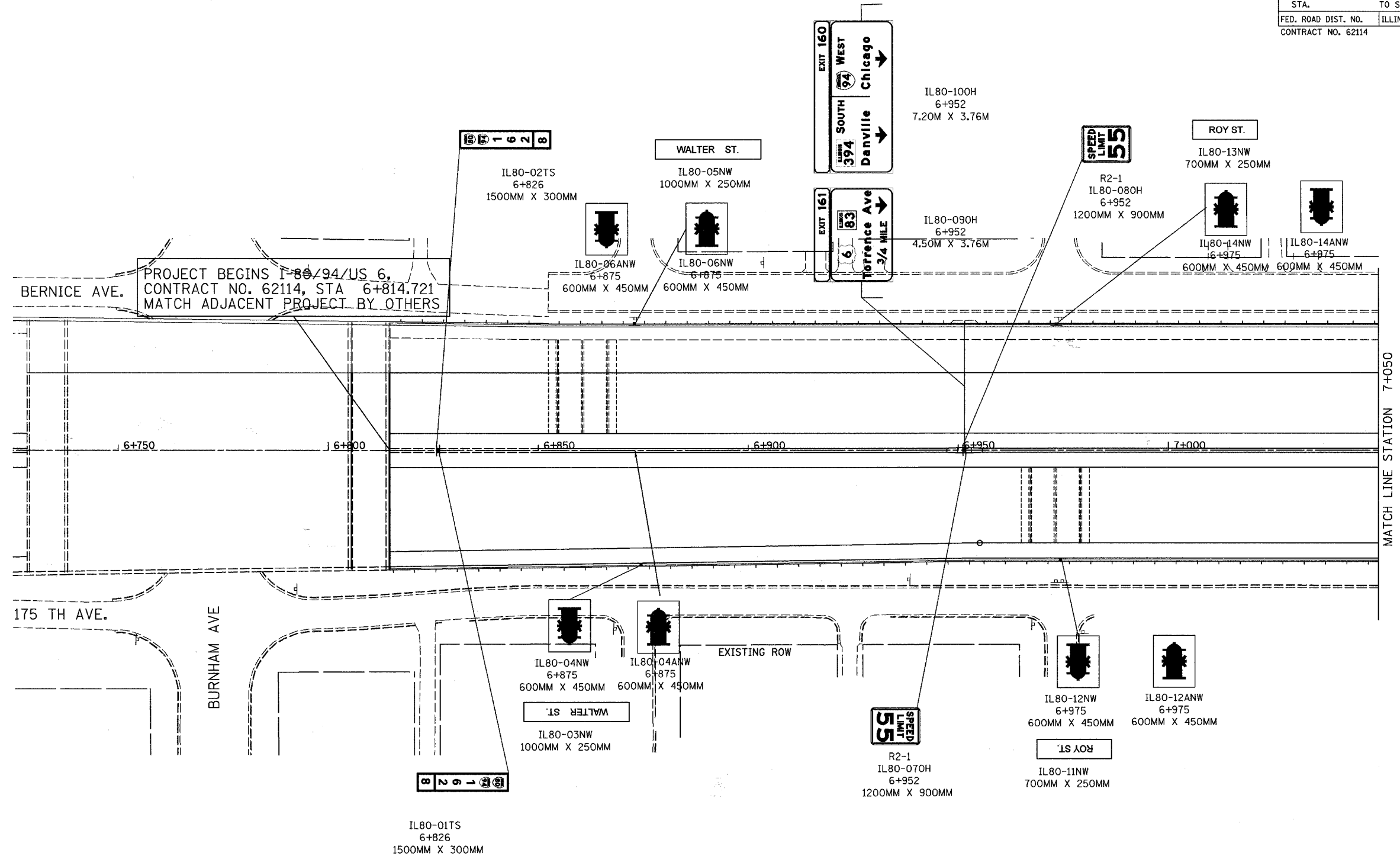
All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION
RAISED PAVEMENT MARKERS
CAST METAL BASE, TYPE 2
JANUARY 2000
STANDARD DRAWING NO. 808-MKRM-11

	<i>/s/ Anthony L. Driscoll</i> 1-00-00 DESIGN ENGINEER DATE
	<i>/s/ Frank Smith</i> 1-00-00 CHIEF ENGINEER DATE

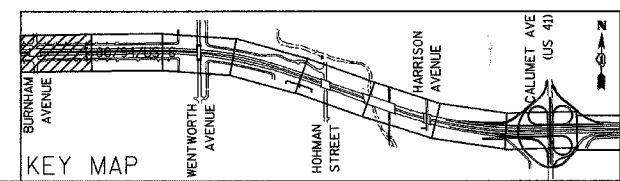
ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	353
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



MATCH LINE STATION 7+050

NOTE:
THE BANDING OF SIGNS TO THE OVERHEAD
SIGN STRUCTURE SUPPORTS SHALL BE INCLUDED
IN THE COST FOR SIGN PANELS.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
SIGNING PLAN

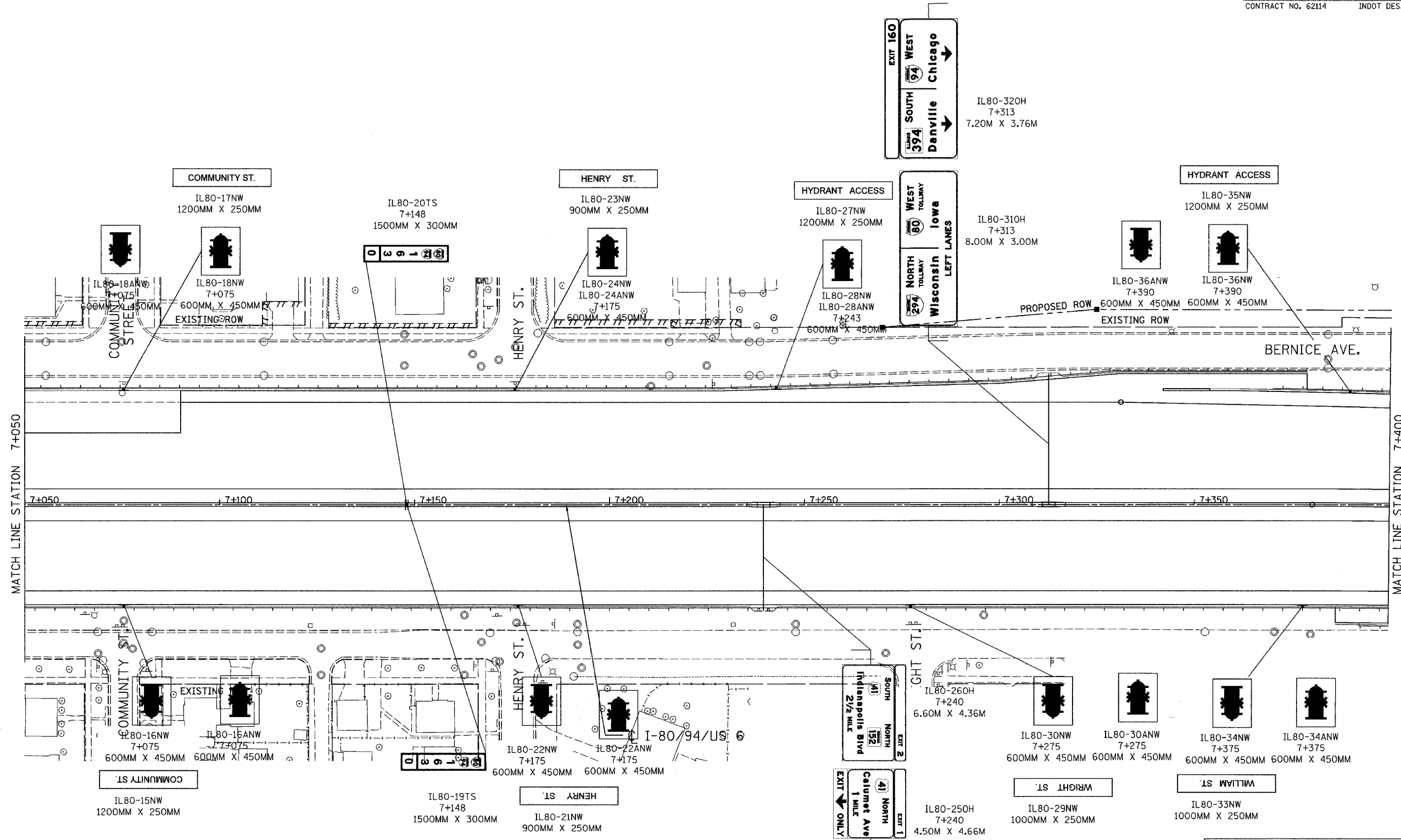
STA. 6 + 814.721 TO STA. 7 + 050

SCALE 1:500 DRAWN BY ACE/CAD
DATE 07/05 CHECKED BY TAE

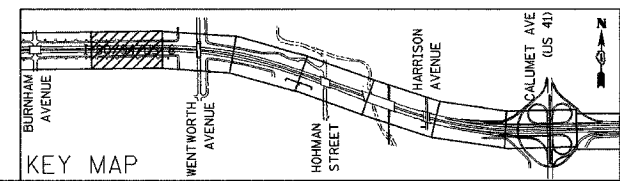
AMERICAN
CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	354
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



NOTE:
THE BANDING OF SIGNS TO THE OVERHEAD SIGN STRUCTURE SUPPORTS SHALL BE INCLUDED IN THE COST FOR SIGN PANELS.



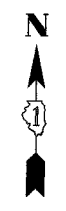
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
SIGNING PLAN

STA. 7+050 TO STA. 7+400

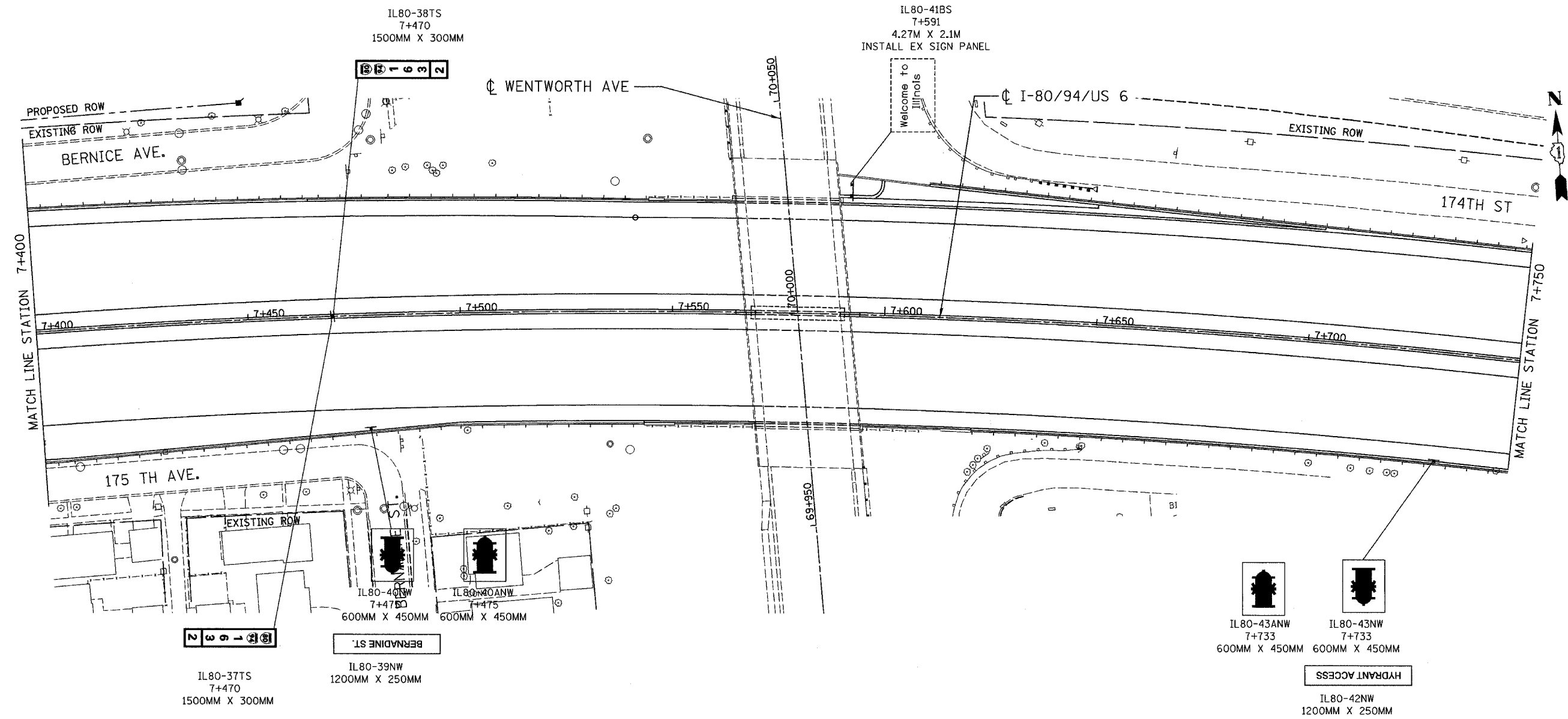
SCALE 1:500 DRAWN BY ACE/CAD
DATE 07/05 CHECKED BY TAE

AMERICAN
CONSULTING ENGINEERS



ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

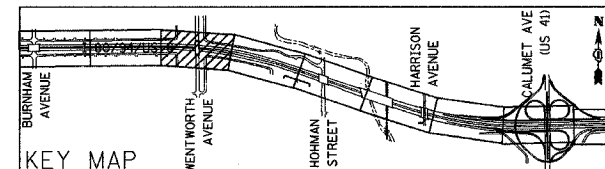
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	355
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



NOTE:
THE BANDING OF SIGNS TO THE OVERHEAD SIGN STRUCTURE SUPPORTS SHALL BE INCLUDED IN THE COST FOR SIGN PANELS.

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
SIGNING PLAN

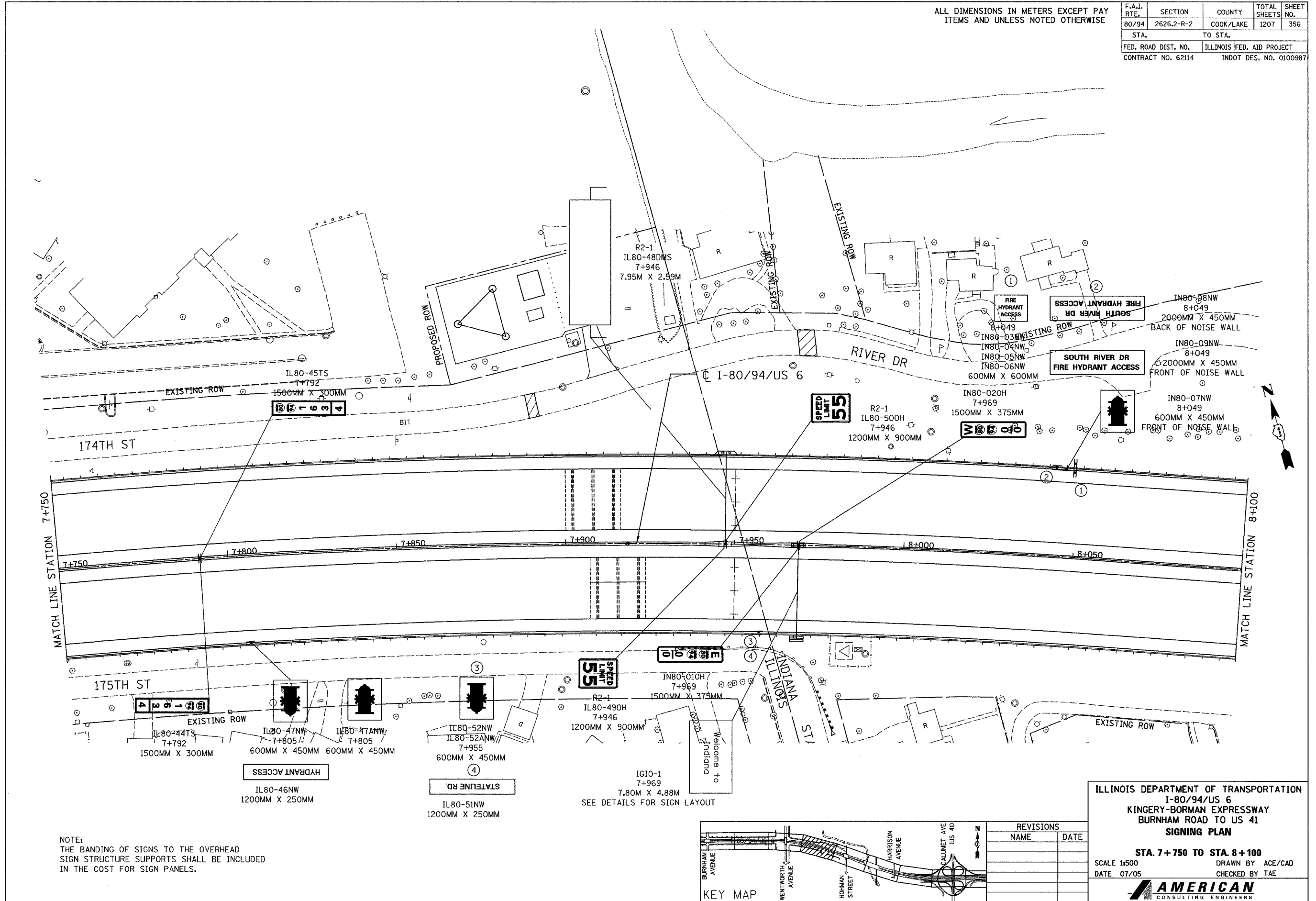
STA. 7+400 TO STA. 7+750
SCALE 1:500
DATE 07/05
DRAWN BY ACE/CAD
CHECKED BY TAE



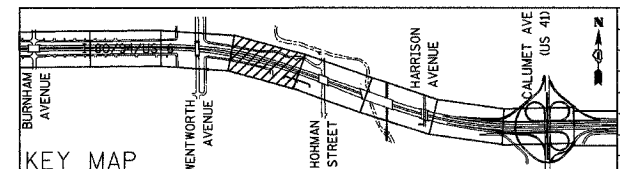
REVISIONS	
NAME	DATE

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	356
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



NOTE:
THE BANDING OF SIGNS TO THE OVERHEAD SIGN STRUCTURE SUPPORTS SHALL BE INCLUDED IN THE COST FOR SIGN PANELS.



REVISIONS	
NAME	DATE

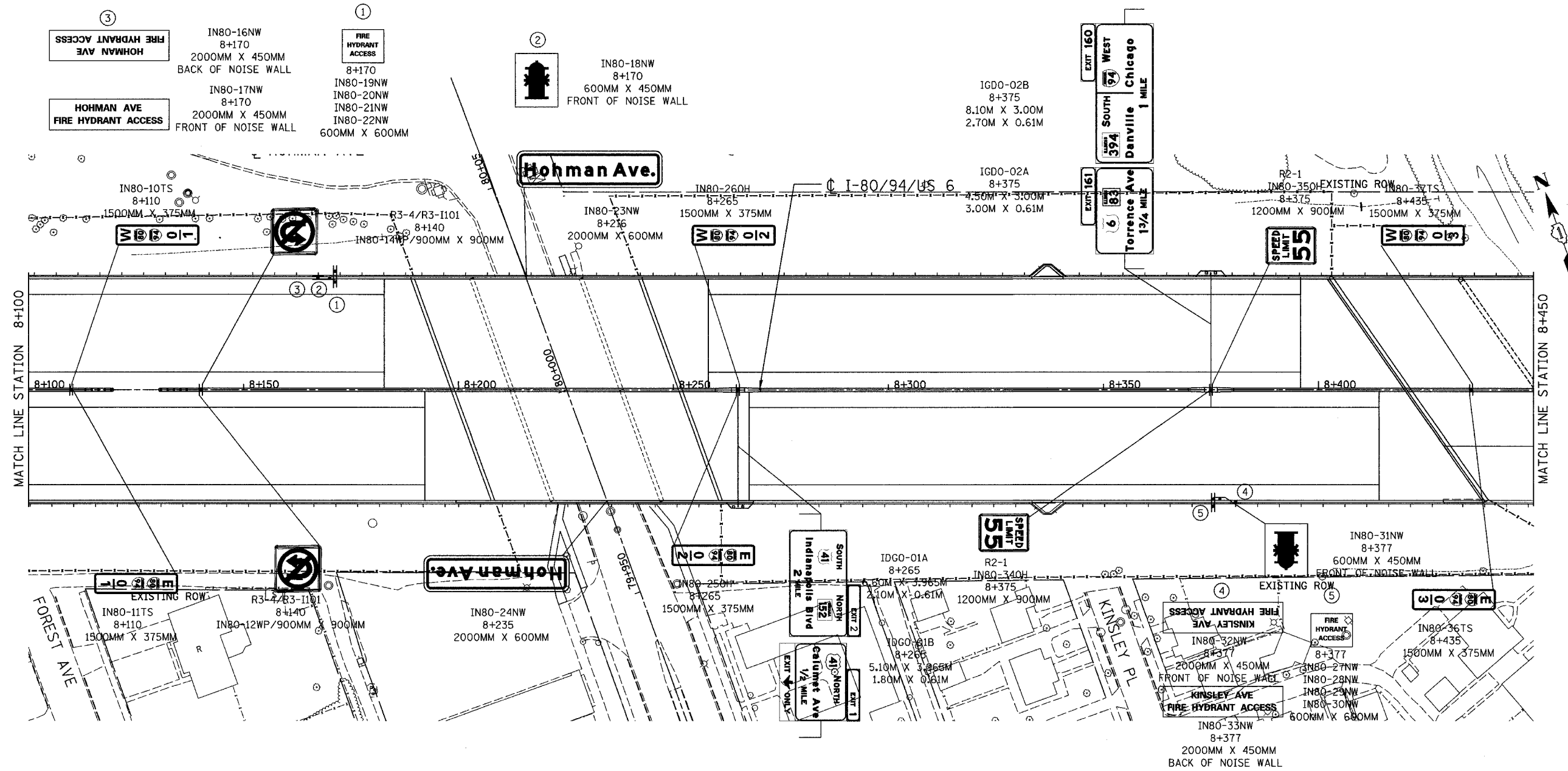
ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
SIGNING PLAN

STA. 7+750 TO STA. 8+100
SCALE 1:500
DATE 07/05

DRAWN BY ACE/CAD
CHECKED BY TAE

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	357
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

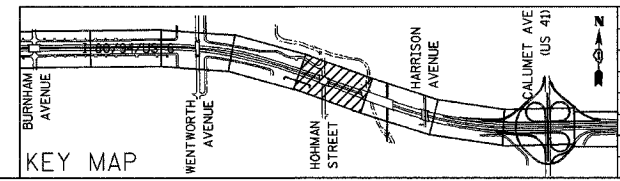


NOTE:
THE BANDING OF SIGNS TO THE OVERHEAD SIGN STRUCTURE SUPPORTS SHALL BE INCLUDED IN THE COST FOR SIGN PANELS.

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
SIGNING PLAN
STA. 8+100 TO STA. 8+450
SCALE 1:500
DATE 07/05
DRAWN BY ACE/CAD
CHECKED BY TAE

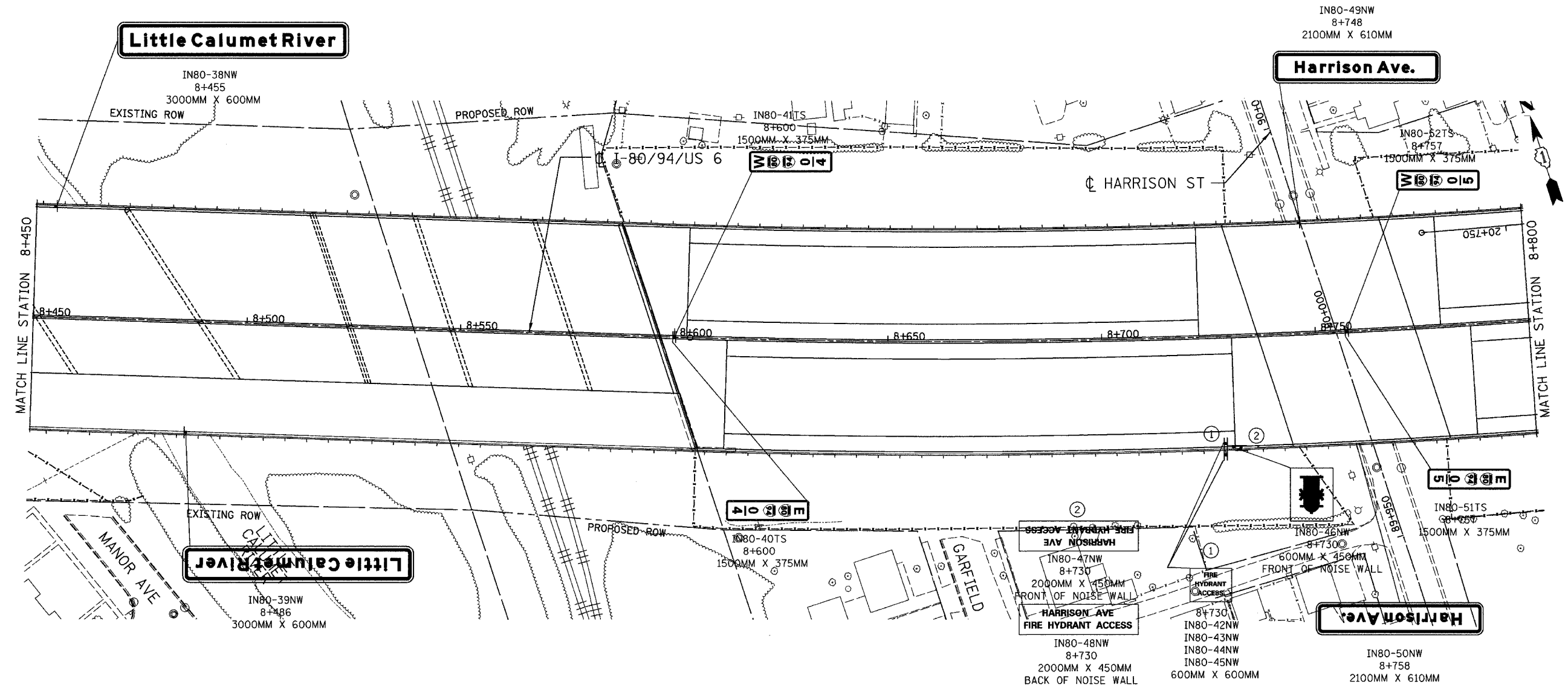
REVISIONS	
NAME	DATE

AMERICAN
CONSULTING ENGINEERS



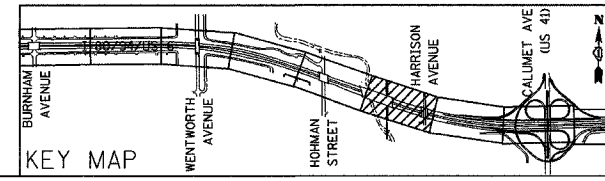
ALL DIMENSIONS IN METERS EXCEPT PAVEMENT ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	358
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



NOTE:
THE BANDING OF SIGNS TO THE OVERHEAD SIGN STRUCTURE SUPPORTS SHALL BE INCLUDED IN THE COST FOR SIGN PANELS.

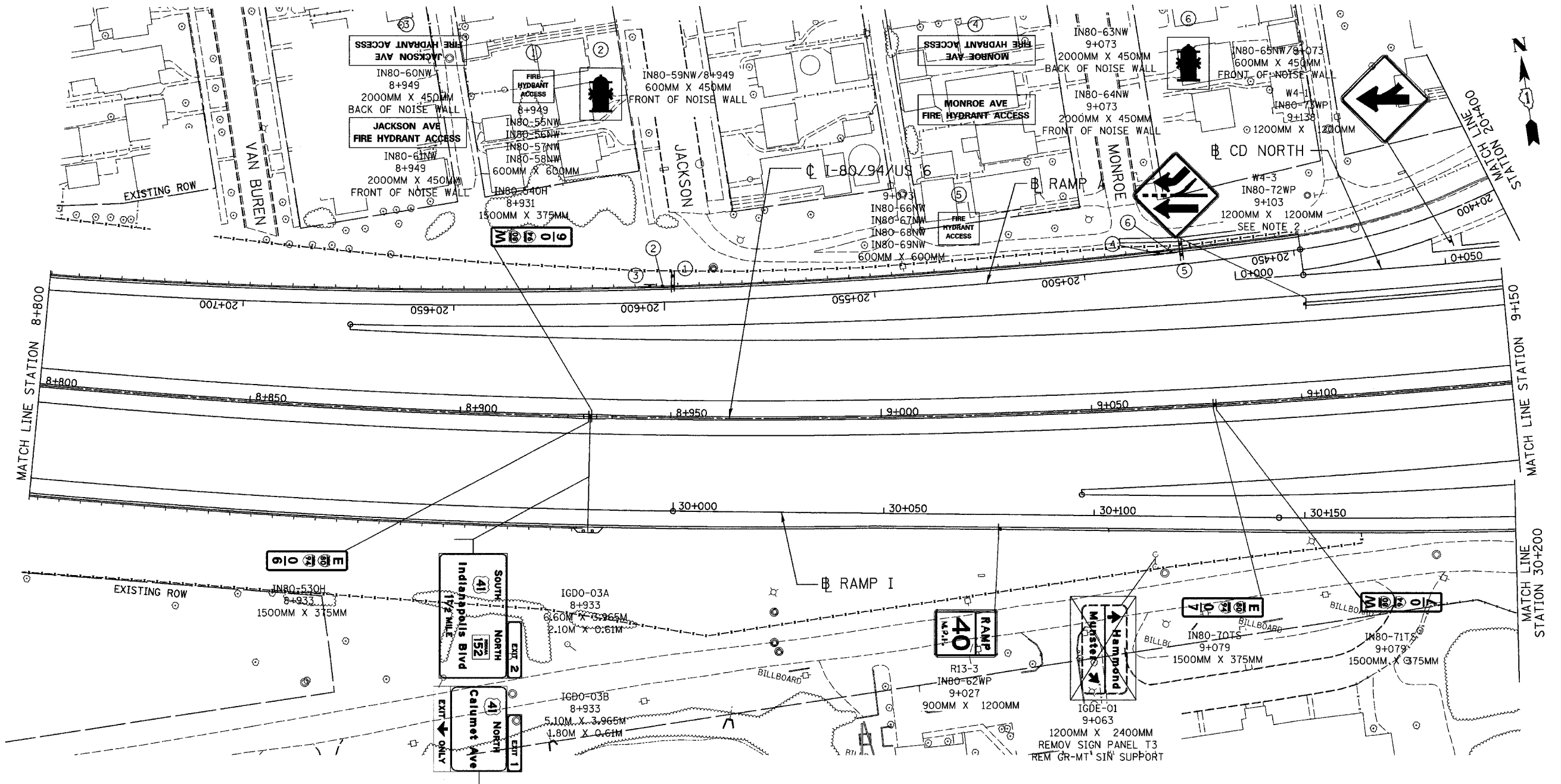
ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
SIGNING PLAN
STA. 8+450 TO STA. 8+800
SCALE 1:500
DATE 07/05
DRAWN BY ACE/CAD
CHECKED BY TAE



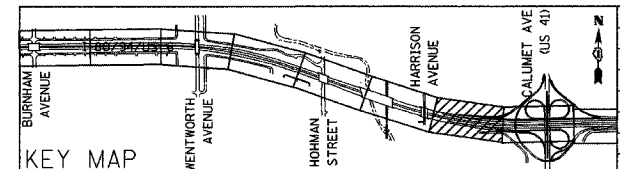
REVISIONS	
NAME	DATE

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	359
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



- NOTE:
- THE BANDING OF SIGNS TO THE OVERHEAD SIGN STRUCTURE SUPPORTS SHALL BE INCLUDED IN THE COST FOR SIGN PANELS.
 - CORE THROUGH SHOULDER TO INSTALL WOOD POST. COST OF CORING INCLUDED WITH PAY ITEM-SIGN POST, WOOD (INDIANA).



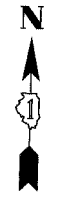
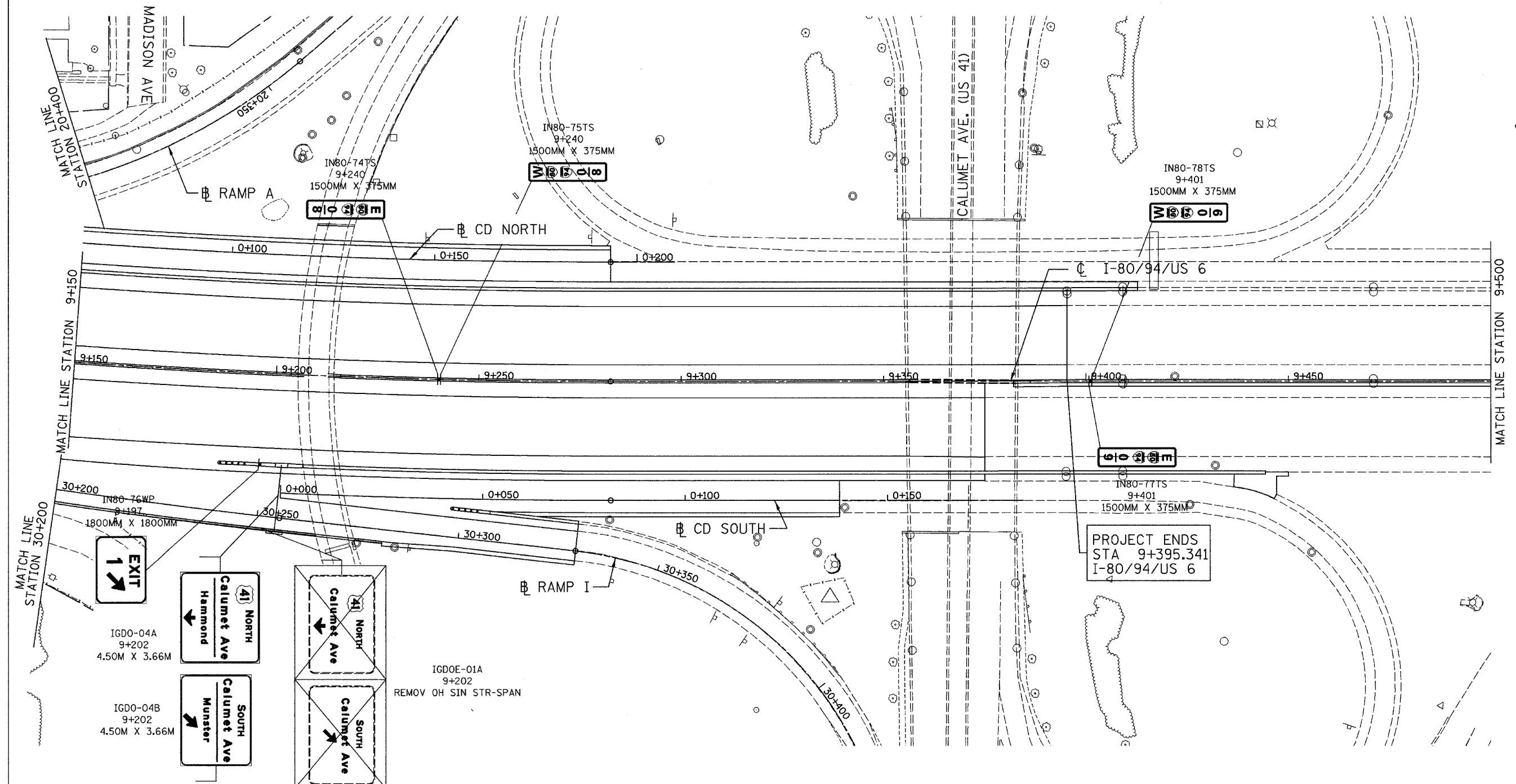
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 I-80/94/US 6
 KINGERY-BORMAN EXPRESSWAY
 BURNHAM ROAD TO US 41
SIGNING PLAN
 STA. 8+800 TO STA. 9+150
 SCALE 1:500 DRAWN BY ACE/CAD
 DATE 07/05 CHECKED BY TAE

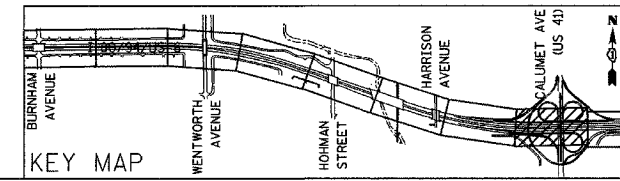
AMERICAN
 CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	360
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



NOTE:
THE BANDING OF SIGNS TO THE OVERHEAD SIGN STRUCTURE SUPPORTS SHALL BE INCLUDED IN THE COST FOR SIGN PANELS.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
SIGNING PLAN

STA. 9+150 TO STA. 9+500

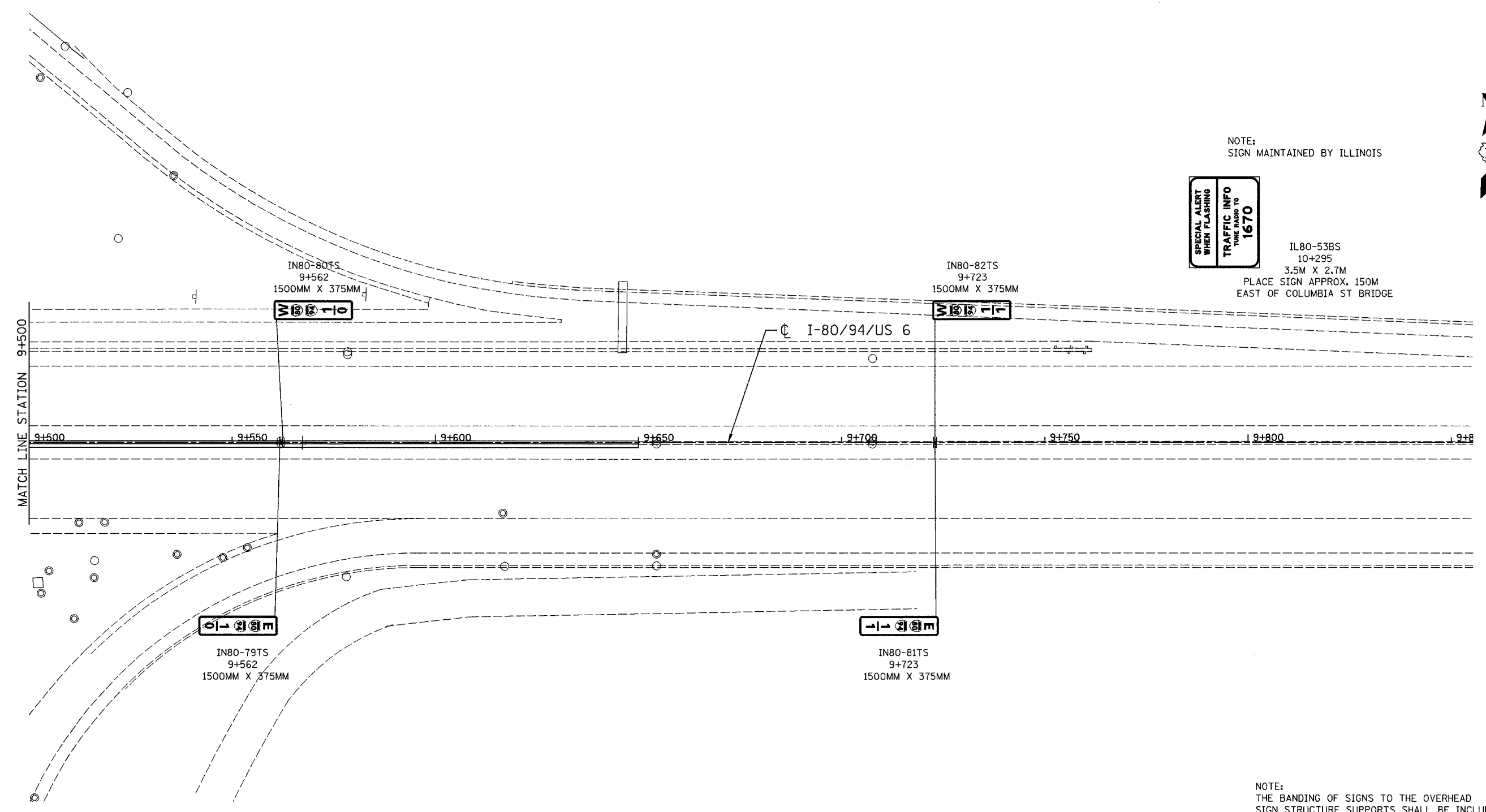
SCALE 1:500
DATE 07/05

DRAWN BY ACE/CAD
CHECKED BY TAE

I:\projects\103031a_r05_04\10/2005_05_26_05.dwg

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	361
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



NOTE:
SIGN MAINTAINED BY ILLINOIS



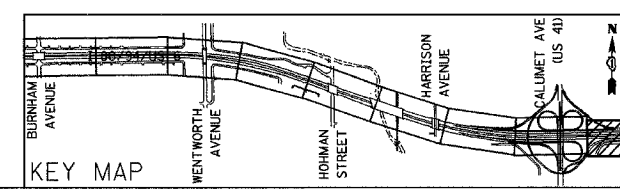
IL80-53BS
10+295
3.5M X 2.7M
PLACE SIGN APPROX. 150M
EAST OF COLUMBIA ST BRIDGE



NOTE:
THE BANDING OF SIGNS TO THE OVERHEAD SIGN STRUCTURE SUPPORTS SHALL BE INCLUDED IN THE COST FOR SIGN PANELS.

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
SIGNING PLAN

STA. 9 + 500 TO STA. 9 + 850
SCALE 1:500
DATE 07/05
DRAWN BY ACE/CAD
CHECKED BY TAE



REVISIONS	
NAME	DATE

SIGNING SCHEDULE - GROUND MOUNTED SIGNS

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE. 80/94	SECTION 2626.2-R-2	COUNTY COOK/LAKE	TOTAL SHEETS 1207	SHEET NO. 362A
STA. _____		TO STA. _____		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

SIGN NO.	STATION	LT/RT	"AA" (M)	"BB" (M)	WIDTH (M)	DEPTH (M)	EXIST TO REMAIN (Y)	ILLINOIS SIGN PANELS		STEEL SIGN SUPPORT			WOOD SIGN SUPPORT		INDIANA SIGN PANELS			INDIANA STEEL SIGN SUPPORT				NOTES		
								M7200100 INSTALL TYPE 1 (SQ. M)	M7200200 INSTALL TYPE 2 (SQ. M)	P1 (M)	M7280100 PAY LENGTH (M)	TUBULAR TF SIN POST (EACH)	P1 (M)	M7300100 PAY LENGTH (M)	73700100 REM CONC FDN-GR MT SUPPORT (M)	73700200 REM CONC FDN-GR MT (M)	S EN LEN LEG 203 (IN) (SQ M)	S EN LEN LEG 254 (IN) (SQ M)	S EN LEN LEG 318 (IN) (SQ M)	P1 (M)	SIGN POST WOOD (IN) (M.)		SIGN POST SQ T1 REINF AN BASE (M.)	SIGN POST SQ T2 REINF AN BASE (M.)
IL80-53NW	6+949	RT			1.05	0.45		0.47															MOUNTED TO NOISE WALL	
IL80-53ANW					1.05	0.45		0.47															MOUNTED TO BACK OF NOISE WALL	
IL80-54NW					1.20	0.30		0.36															MOUNTED TO NOISE WALL DOOR	
IL80-54ANW					1.20	0.30		0.36															MOUNTED TO NOISE WALL DOOR	
IL80-55NW	6+973	LT			1.05	0.45		0.47															MOUNTED TO NOISE WALL	
IL80-55ANW					1.05	0.45		0.47															MOUNTED TO BACK OF NOISE WALL	
IL80-56NW					0.45	0.30		0.14															MOUNTED TO NOISE WALL DOOR	
IL80-56ANW					0.45	0.30		0.14															MOUNTED TO NOISE WALL DOOR	
IL80-57NW	7+074	RT			1.05	0.45		0.47															MOUNTED TO NOISE WALL	
IL80-57ANW					1.05	0.45		0.47															MOUNTED TO BACK OF NOISE WALL	
IL80-58NW					1.20	0.30		0.36															MOUNTED TO NOISE WALL DOOR	
IL80-58ANW					1.20	0.30		0.36															MOUNTED TO NOISE WALL DOOR	
IL80-59NW	7+926	LT			1.05	0.45		0.47															MOUNTED TO NOISE WALL	
IL80-59ANW					1.05	0.45		0.47															MOUNTED TO BACK OF NOISE WALL	
IL80-60NW					0.45	0.30		0.14															MOUNTED TO NOISE WALL DOOR	
IL80-60ANW					0.45	0.30		0.14															MOUNTED TO NOISE WALL DOOR	
TOTALS								22.21	4.32			4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

NOTE:
 "AA" = DISTANCE FROM EDGE OF TRAVELED WAY
 "BB" = DISTANCE FROM BOTTOM OF SIGN TO PAVEMENT
 SIGN LOCATION SUBJECT TO MINOR RELOCATION IN FIELD
 AT TIME OF CONSTRUCTION AS DIRECTED BY THE ENGINEER

REVISIONS	
NAME	DATE
NEW SHEET - JBS	11-14-05

ILLINOIS DEPARTMENT OF TRANSPORTATION
 I-80/94/US 6
 KINGERY-BORMAN EXPRESSWAY
 BURNHAM ROAD TO US 41

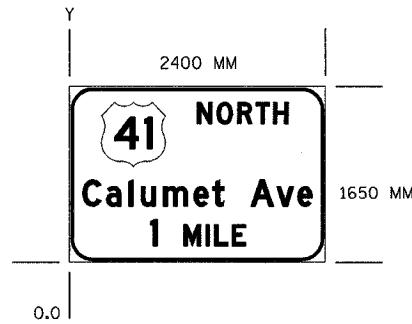
SIGNING SCHEDULE

SCALE _____ DATE 07/05 DRAWN BY ACE/CAD CHECKED BY TAE

AMERICAN
CONSULTING ENGINEERS

ALL DIMENSIONS IN MILLIMETERS EXCEPT
PAY ITEMS AND UNLESS NOTED OTHERWISE

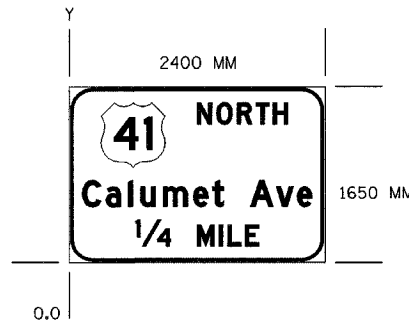
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	366
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



SIGN NUMBER	
WIDTH x HEIGHT	2400 X 1650
BORDER WIDTH	25
CORNER RADIUS	210
MOUNTING	
BACKGROUND	TYPE: REFLECTIVE COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: WHITE

SYMBOL	X	Y	WID	HT
M1 4	300	900	600	600

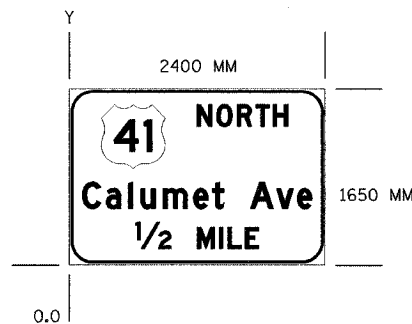
Y FONT	LETTER POSITIONS (X)													HT LEN		
1300	N	O	R	T	H											200
D	1200	1386	1576	1751	1913											850
525	C	a	l	u	m	e	t	A	v	e						250
D	125	347	556	670	1166	1343	1450	1700	1943	2140						200
																2150
150	1		M	I	L	E										250
D	762		1072	1230	1361	1525										200
																890



SIGN NUMBER	
WIDTH x HEIGHT	2400 X 1650
BORDER WIDTH	25
CORNER RADIUS	210
MOUNTING	
BACKGROUND	TYPE: REFLECTIVE COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: WHITE

SYMBOL	X	Y	WID	HT
M1 4	300	900	600	600

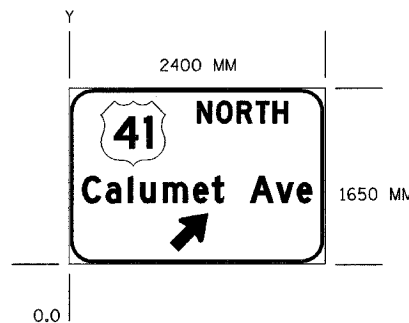
Y FONT	LETTER POSITIONS (X)													HT LEN		
1300	N	O	R	T	H											200
D	1200	1386	1576	1751	1913											850
525	C	a	l	u	m	e	t	A	v	e						250
D	125	347	556	670	1166	1343	1450	1700	1943	2140						200
																2150
150	1	/	4		M	I	L	E								250
D	623	684	829		1200	1407	1488	1651								200
																1154



SIGN NUMBER	
WIDTH x HEIGHT	2400 X 1650
BORDER WIDTH	25
CORNER RADIUS	210
MOUNTING	
BACKGROUND	TYPE: REFLECTIVE COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: WHITE

SYMBOL	X	Y	WID	HT
M1 4	300	900	600	600

Y FONT	LETTER POSITIONS (X)													HT LEN		
1300	N	O	R	T	H											200
D	1200	1386	1576	1751	1913											850
525	C	a	l	u	m	e	t	A	v	e						250
D	125	347	556	670	1166	1343	1450	1700	1943	2140						200
																2150
150	1	/	2		M	I	L	E								250
D	624	675	840		1202	1408	1488	1651								200
																1152



SIGN NUMBER	
WIDTH x HEIGHT	2400 X 1650
BORDER WIDTH	25
CORNER RADIUS	210
MOUNTING	
BACKGROUND	TYPE: REFLECTIVE COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: WHITE

SYMBOL	X	Y	WID	HT
M1 4	300	925	600	600
AR, 145DEG	950	125	350	350

Y FONT	LETTER POSITIONS (X)													HT LEN		
1325	N	O	R	T	H											200
D	1200	1386	1576	1751	1913											850
575	C	a	l	u	m	e	t	A	v	e						250
D	125	347	556	670	1166	1343	1450	1700	1943	2140						200
																2150

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41

TEMPORARY INFORMATION SIGNING

SCALE NONE
DATE 07/05

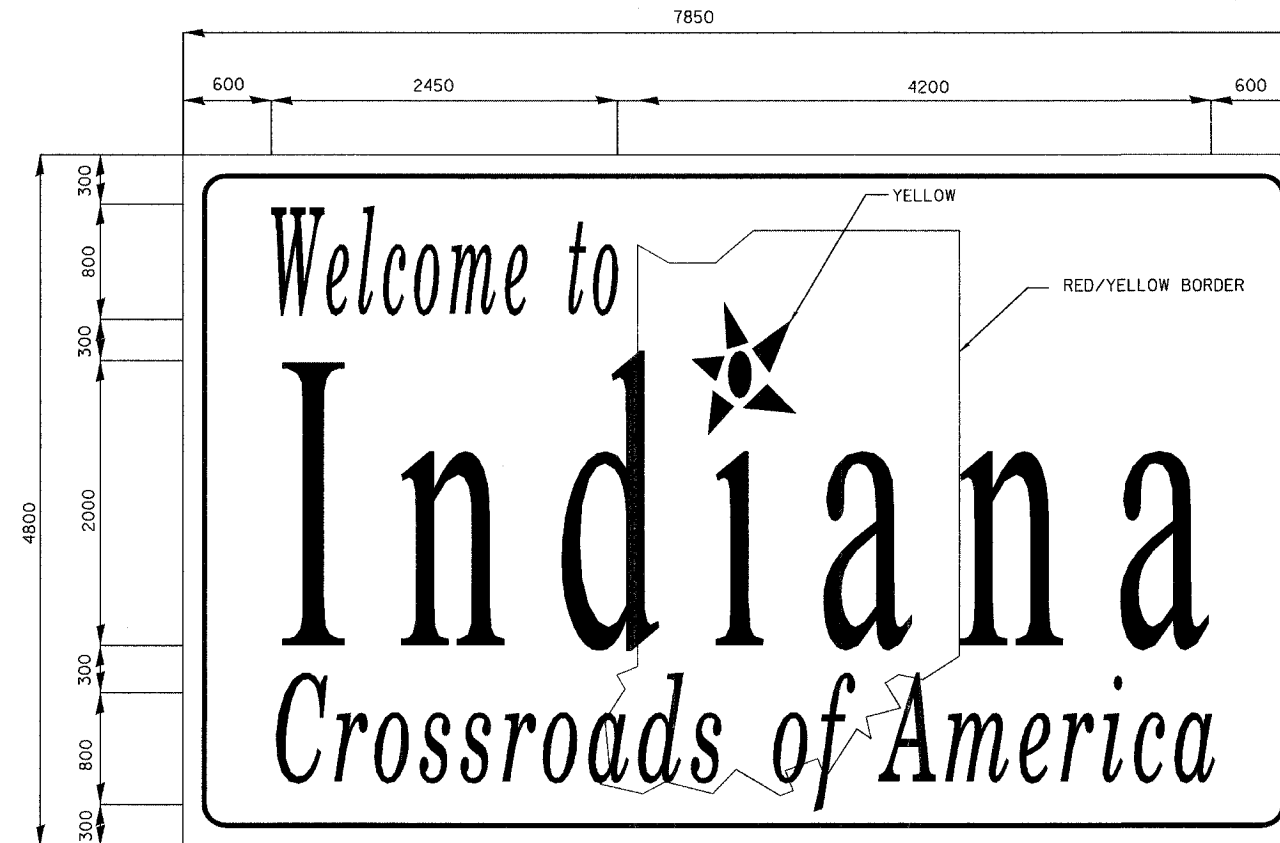
DRAWN BY ACE/CAD
CHECKED BY TAE



REVISIONS	
NAME	DATE

ALL DIMENSIONS IN MILLIMETERS EXCEPT
PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	367
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



SIGN LEGEND: WHITE/BLUE
BORDER: WHITE
RADIUS: 150

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41

INDIANA WELCOME SIGN DETAILS

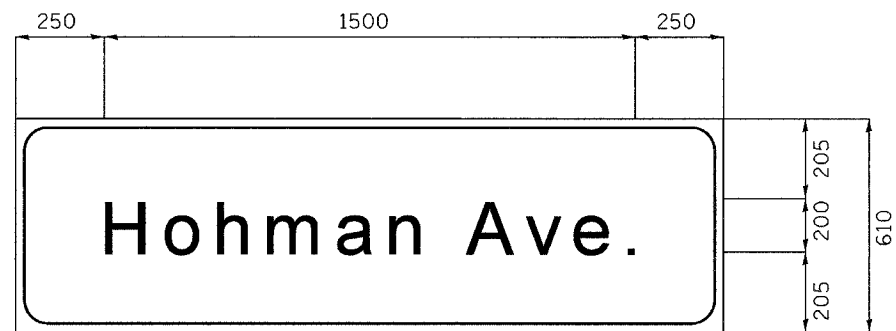
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DATE 07/05

DRAWN BY ACE/CAD
CHECKED BY TAE

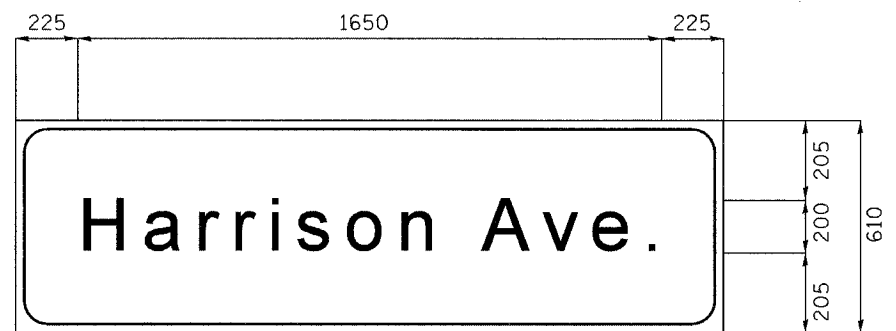


ALL DIMENSIONS IN MILLIMETERS EXCEPT
PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	368
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



BORDER R=200 TH=50 IN=35
SIGN: WHITE/GREEN
LETTERING: 200 UPPER CASE/ 150 LOWER CASE EM SERIES

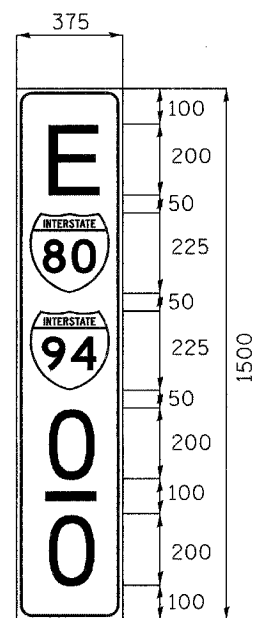


BORDER R=200 TH=50 IN=35
SIGN: WHITE/GREEN
LETTERING: 200 UPPER CASE/ 150 LOWER CASE EM SERIES



BORDER R=200 TH=50 IN=35
SIGN: WHITE/GREEN
LETTERING: 200 UPPER CASE/ 150 LOWER CASE EM SERIES

NOTE:
SIX BOLTS, LOCK NUTS, AND WASHERS
ARE REQUIRED FOR THE ABOVE SIGNS.

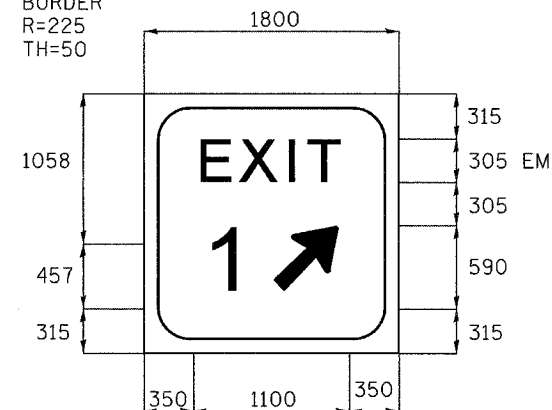


INDIANA MILE MARKER SIGN

OR "W"

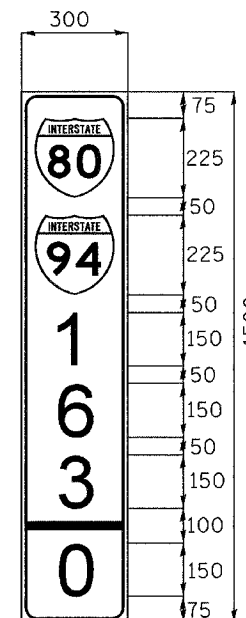
SIGN: WHITE/BLUE
SHIELDS: STANDARD COLORS

SIGN: WHITE/GREEN
BORDER R=225 TH=50



ARROW: 450 X 717 AT 45°

EXIT SIGN DETAIL



ILLINOIS MILE MARKER SIGN

SIGN: WHITE/GREEN
SHIELDS: STANDARD COLORS

REVISIONS	
NAME	DATE

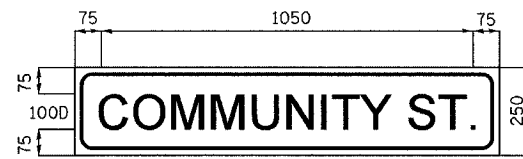
ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
MILE MARKER SIGN DETAILS
INDIANA STREET SIGN DETAILS

SCALE NONE DATE 07/05
DRAWN BY ACE/CAD
CHECKED BY TAE

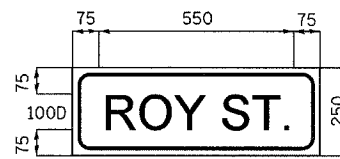


ALL DIMENSIONS IN MILLIMETERS EXCEPT
PAY ITEMS AND UNLESS NOTED OTHERWISE

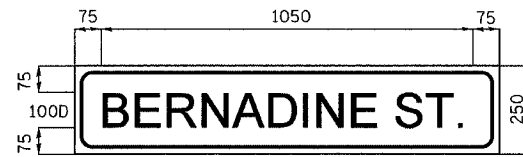
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	369
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



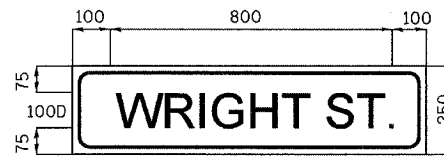
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TH=16
IN=10



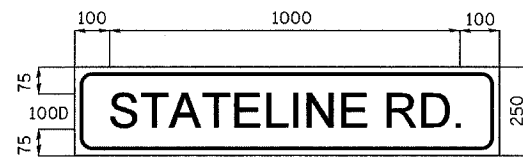
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R=30
TH=16
IN=10



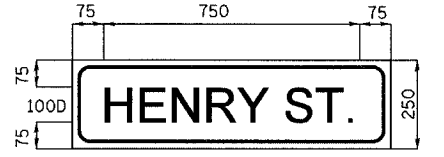
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R=30
TH=16
IN=10



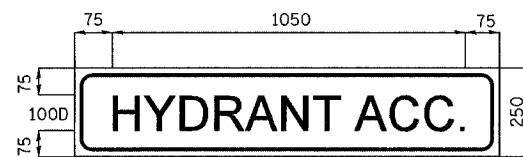
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R=30
TH=16
IN=10



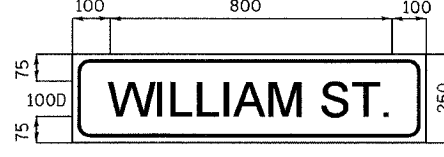
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R=30
TH=16
IN=10



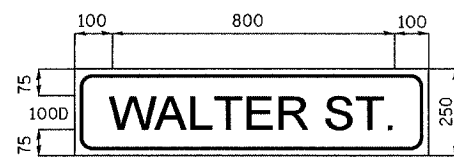
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R=30
TH=16
IN=10



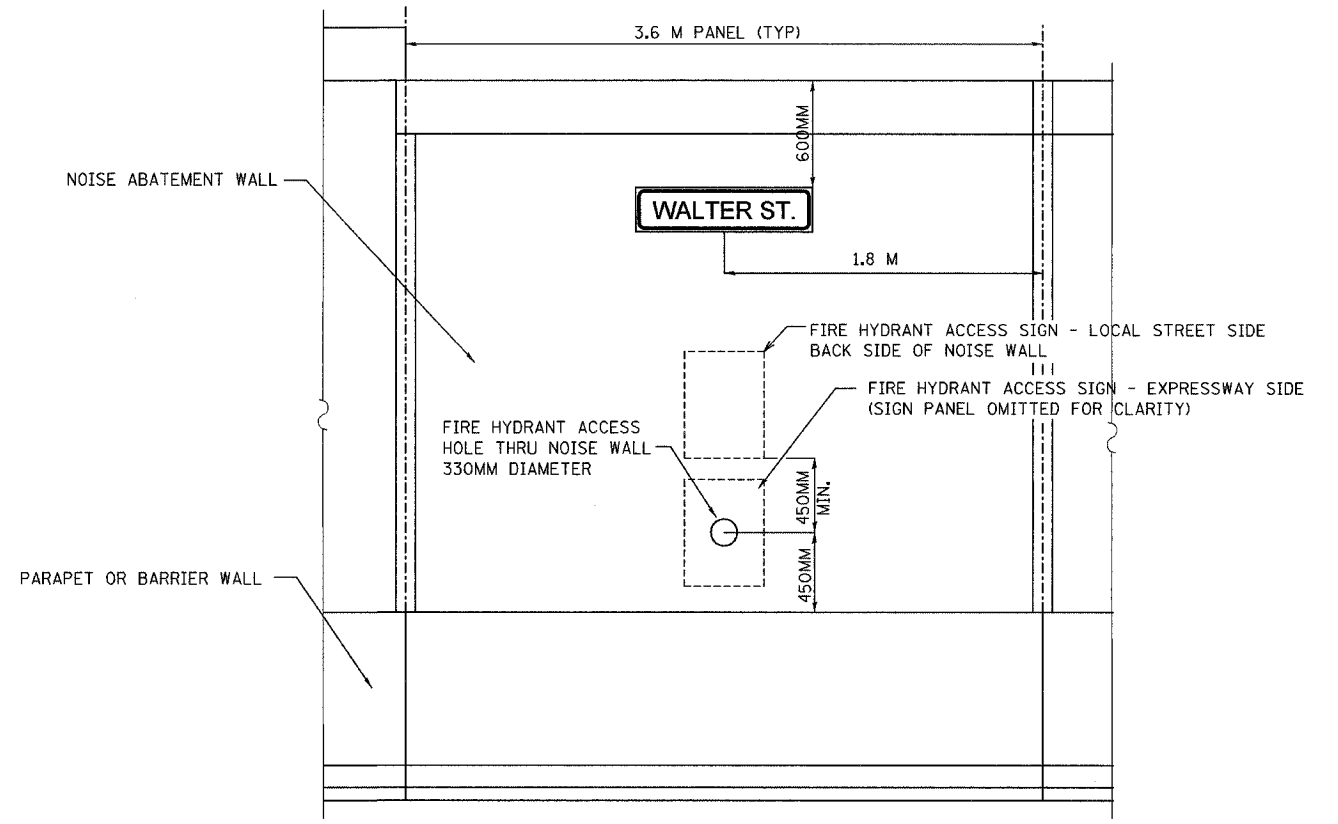
BORDER SIGN: WHITE/RED
R=30
TH=16
IN=10



BORDER SIGN: WHITE/RED
R=30
TH=16
IN=10



BORDER SIGN: WHITE/RED
R=30
TH=16
IN=10



FIRE HYDRANT ACCESS: SIGN PLACEMENT DETAIL

NOTE:
ALL STREET NAME SIGNS SHALL BE MOUNTED TO THE NOISE ABATEMENT WALL WITH A MINIMUM OF 4 BOLTS, SELF-LOCKING NUTS AND WASHERS, UNLESS OTHERWISE NOTED ON THE PLAN DETAILS. ALL 600MM X 450MM FIRE ACCESS SIGNS SHALL BE MOUNTED TO THE WALL WITH 2 BOLTS, SELF-LOCKING NUTS, AND WASHERS. ALL BOLTS SHALL BE OF SUFFICIENT LENGTH TO EXTEND THROUGH THE WALL AND BE A MINIMUM OF 6MM BEYOND THE NUT. ALL BOLTS, SELF-LOCKING NUTS AND WASHERS SHALL MEET THE REQUIREMENTS FOR MOUNTING SIGNS TO POSTS AS LISTED IN THE SPECIAL PROVISIONS AND IN THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE COST PER SQUARE METER FOR THE TYPE OF SIGN PANEL SPECIFIED.

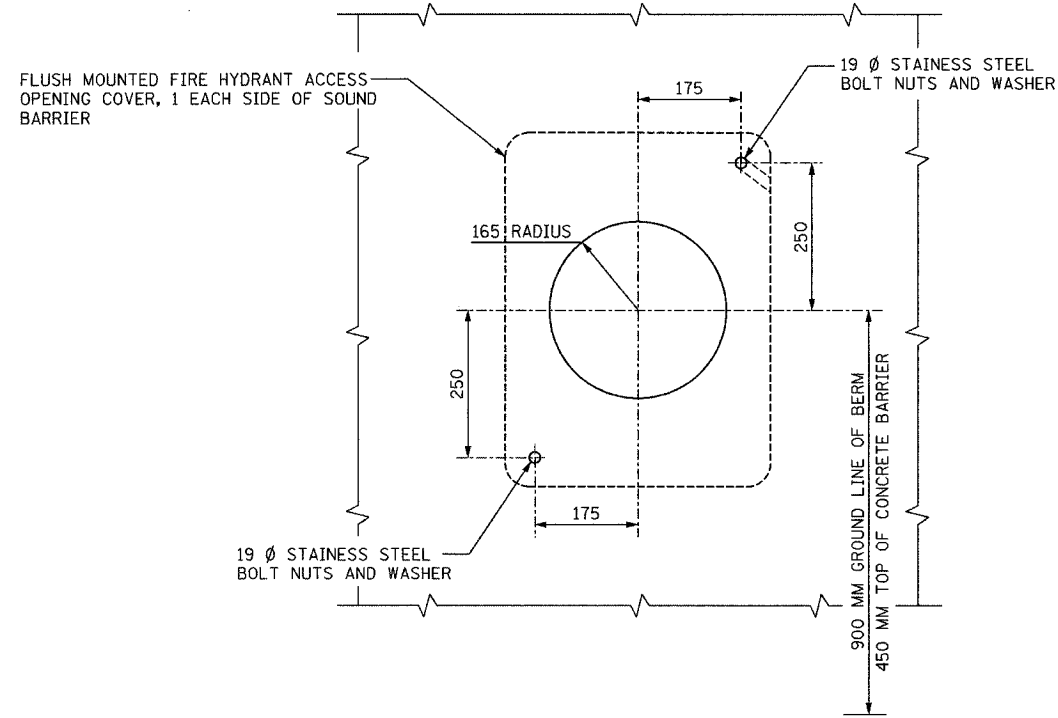
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
HYDRANT ACCESS SIGN LAYOUT
AND LOCATION DETAILS

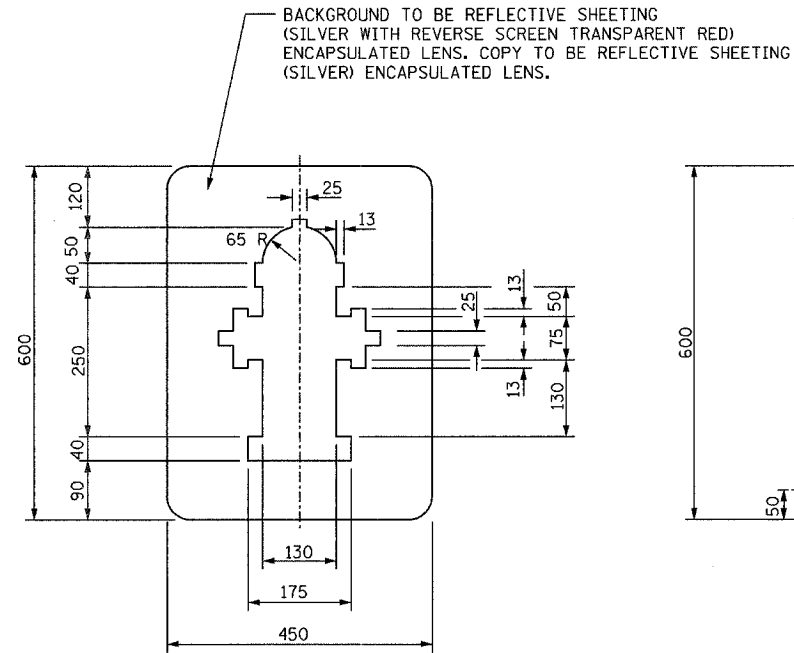
SCALE DATE 07/05 DRAWN BY ACE/CAD CHECKED BY TAE

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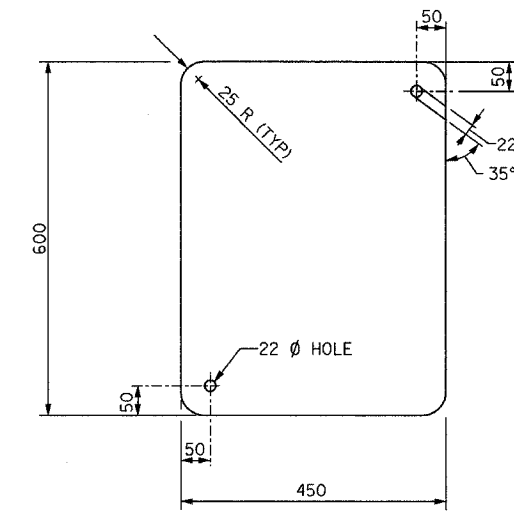
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	370
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



FIRE HYDRANT ACCESS HOLE DETAIL

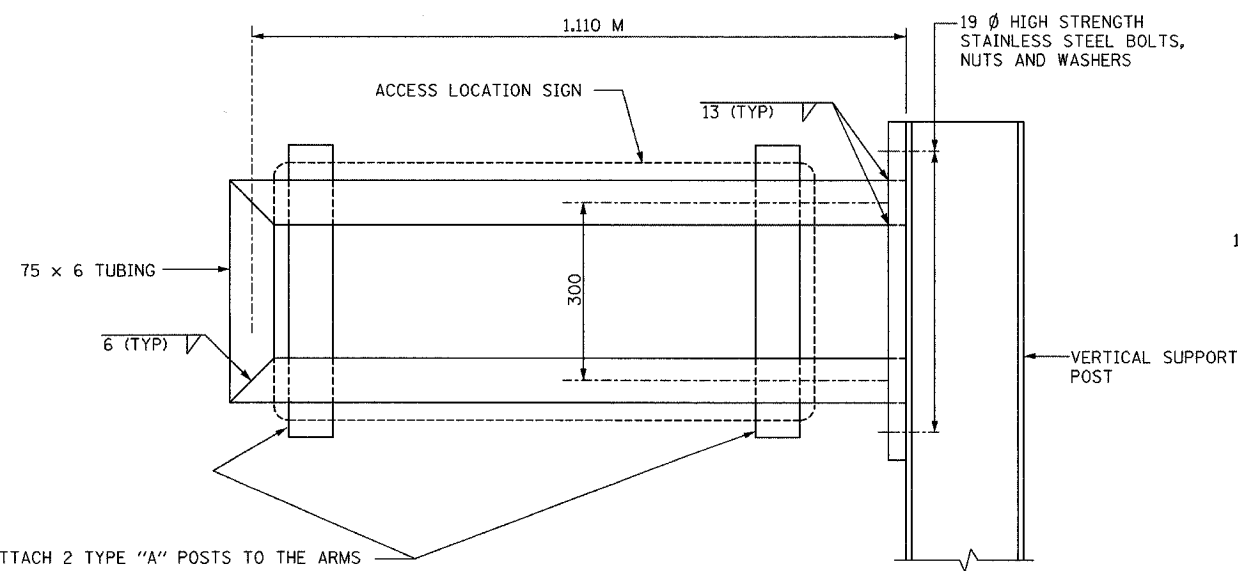


FIRE HYDRANT ACCESS OPENING COVER DETAIL

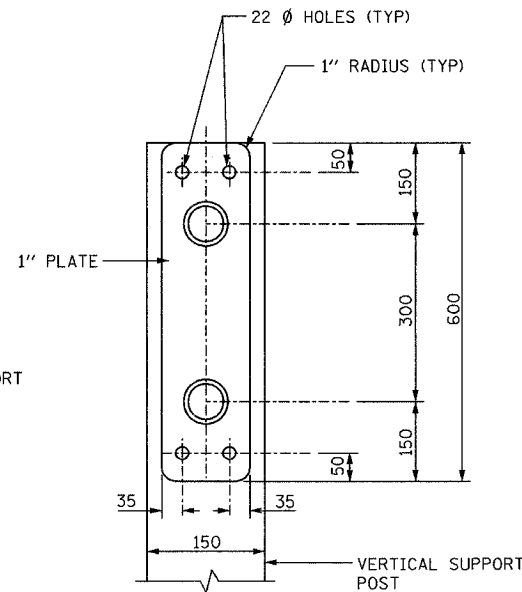


FIRE HYDRANT ACCESS OPENING COVER DETAIL

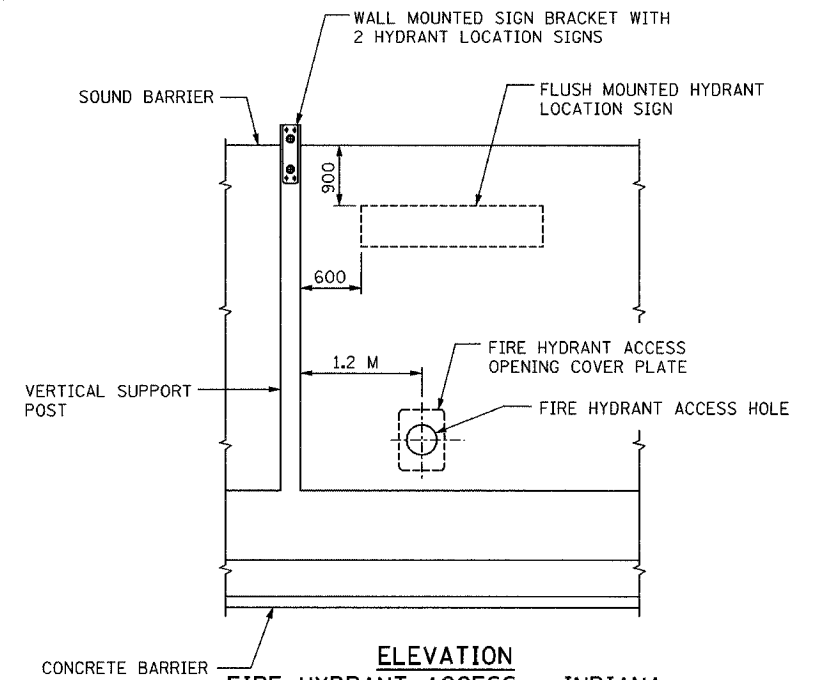
NOTES: TUBING AND PLATES FOR WALL MOUNTED SIGN BRACKET TO BE ALUMINUM 6061-T6 CONFORMING TO ASTM B 221.
 FIRE HYDRANT ACCESS OPENING COVER PLATES TO BE ENCAPSULATED LENS SHEET SIGNS (2 MM THICK).
 PROVIDE 4.27 M (MIN) CLEARANCE FROM SHOULDER TO BOTTOM OF SIGN.



WALL MOUNTED SIGN BRACKET - INDIANA



SECTION A-A



ELEVATION FIRE HYDRANT ACCESS - INDIANA

ATTACH 2 TYPE "A" POSTS TO THE ARMS W/STAINLESS STEEL U-BOLTS

ALL DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 I-80/94/US 6
 KINGERY-BORMAN EXPRESSWAY
 BURNHAM ROAD TO US 41

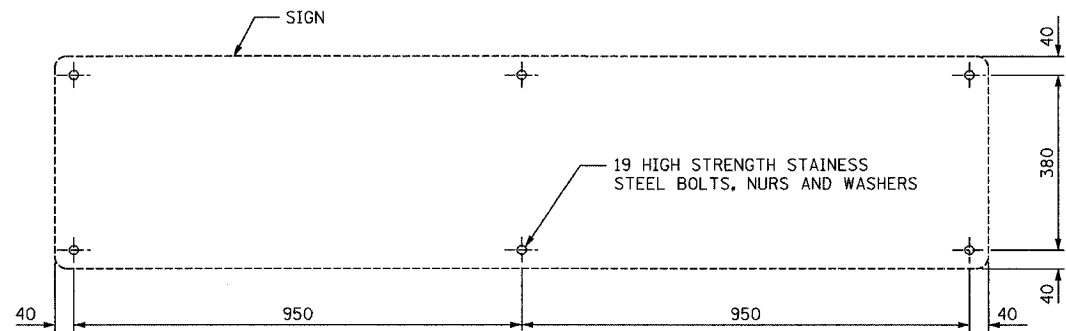
FIRE HYDRANT ACCESS

SCALE NONE
 DATE 07/05
 DRAWN BY ACE/CAD
 CHECKED BY TAE

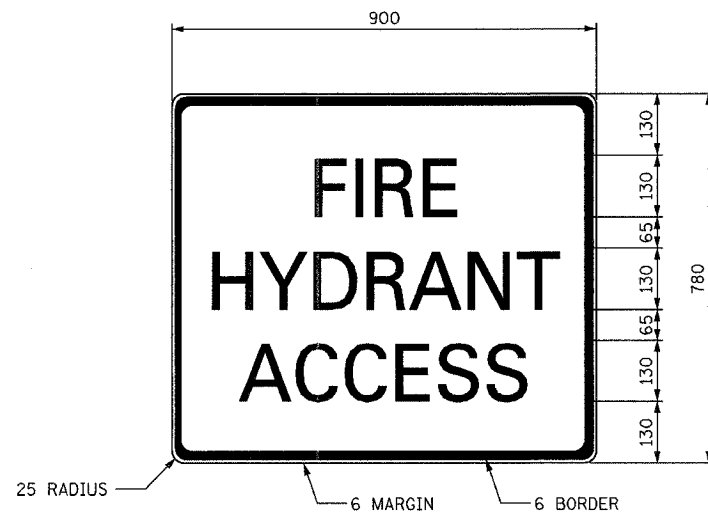




HYDRANT LOCATION SIGN - (INDIANA)



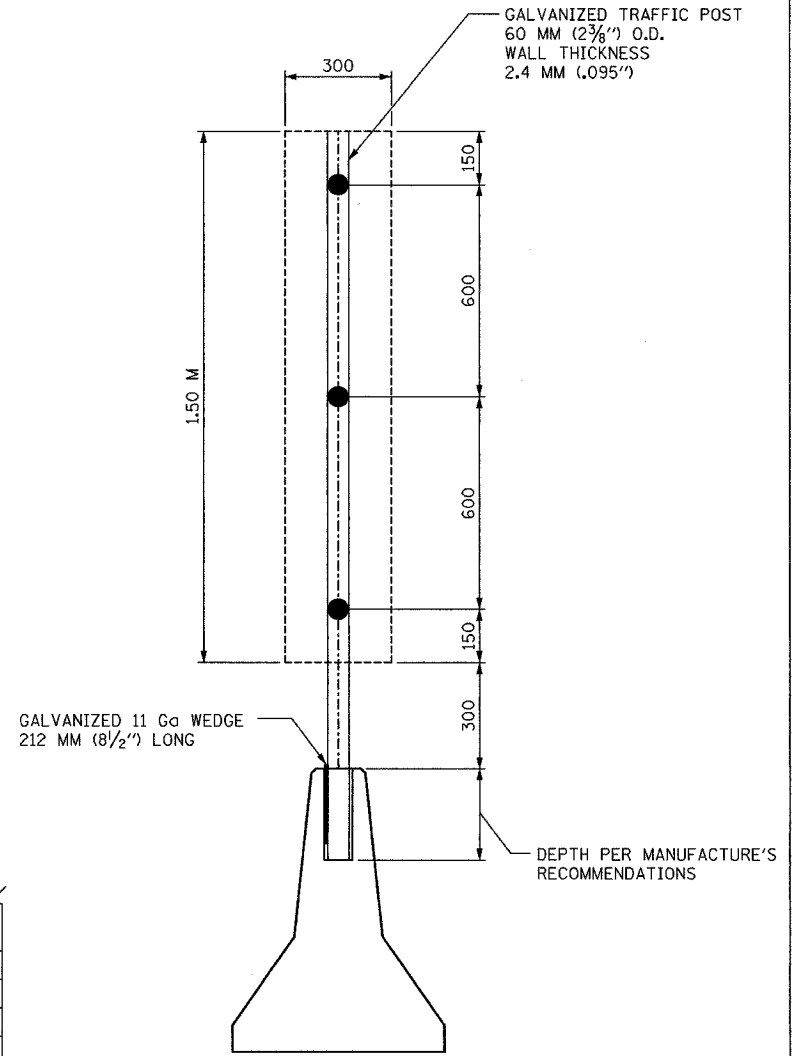
FLUSH MOUNTED SIGN DETAILS - (INDIANA)



ACCESS LOCATION SIGN - (INDIANA)

NOTES:

HYDRANT LOCATION SIGNS TO BE ENCAPSULATED LENS SHEET SIGNS.
 COPY AND BORDER TO REFLECTIVE SHEET (SILVER WITH REVERSE SCREEN TRANSPARENT RED) ENCAPSULATED LENS.
 BACKGROUND TO BE REFLECTIVE SHEETING (SILVER) ENCAPSULATED LENS.
 LETTERING TO BE 130 MM SERIES C.



SIGN PANEL MOUNTING TO BARRIER WALL DETAIL

FIRE HYDRANT ACCESS SUMMARY

LOCATION	ACCESS TO	SERIES SIGN	FLUSH MOUNTED SIGN	WALL MOUNTED SIGN BRACKETS	TOTAL SHEET SIGN AREA	TYPE A POSTS

SIGN DETAILS

HYDRANT LOCATION SIGN	"STREET"	SIGN AREA	SIGN THICKNESS

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED

ILLINOIS DEPARTMENT OF TRANSPORTATION
 I-80/94/US 6
 KINGERY-BORMAN EXPRESSWAY
 BURNHAM ROAD TO US 41

**FIRE HYDRANT ACCESS PANEL DETAIL
 BARRIER WALL SIGN MOUNTING DETAIL**

SCALE NONE DRAWN BY ACE/CAD
 DATE 07/05 CHECKED BY TAE



REVISIONS	
NAME	DATE

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ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	372
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 62114 INDOT DES. NO. 0100987		

GENERAL NOTES

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

MEASUREMENTS: All dimensions are in millimeters (mm) except as noted.

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: 145 km/h WIND VELOCITY

WIND LOADING: 1.44 kPa normal to Sign Panel Area and truss elements not behind sign Loading Diagram.

WALKWAY LOADING: Dead load plus 2.2 kN concentrated live load.

DESIGN STRESSES:

FIELD UNITS
 $f'c = 24 \text{ MPa}$
 $f_y = 400 \text{ MPa}$ (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 241 MPa, or A500 Grade B or C with a minimum yield of 319 MPa. 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 M270M Gr. 250, Gr. 345 or Gr. 345W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 20 J. at 4° C. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" (HS) must satisfy the requirements of AASTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if members interfere) must satisfy the requirements of ASTM A449, ASTM A193M, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04(f) of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts, and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

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

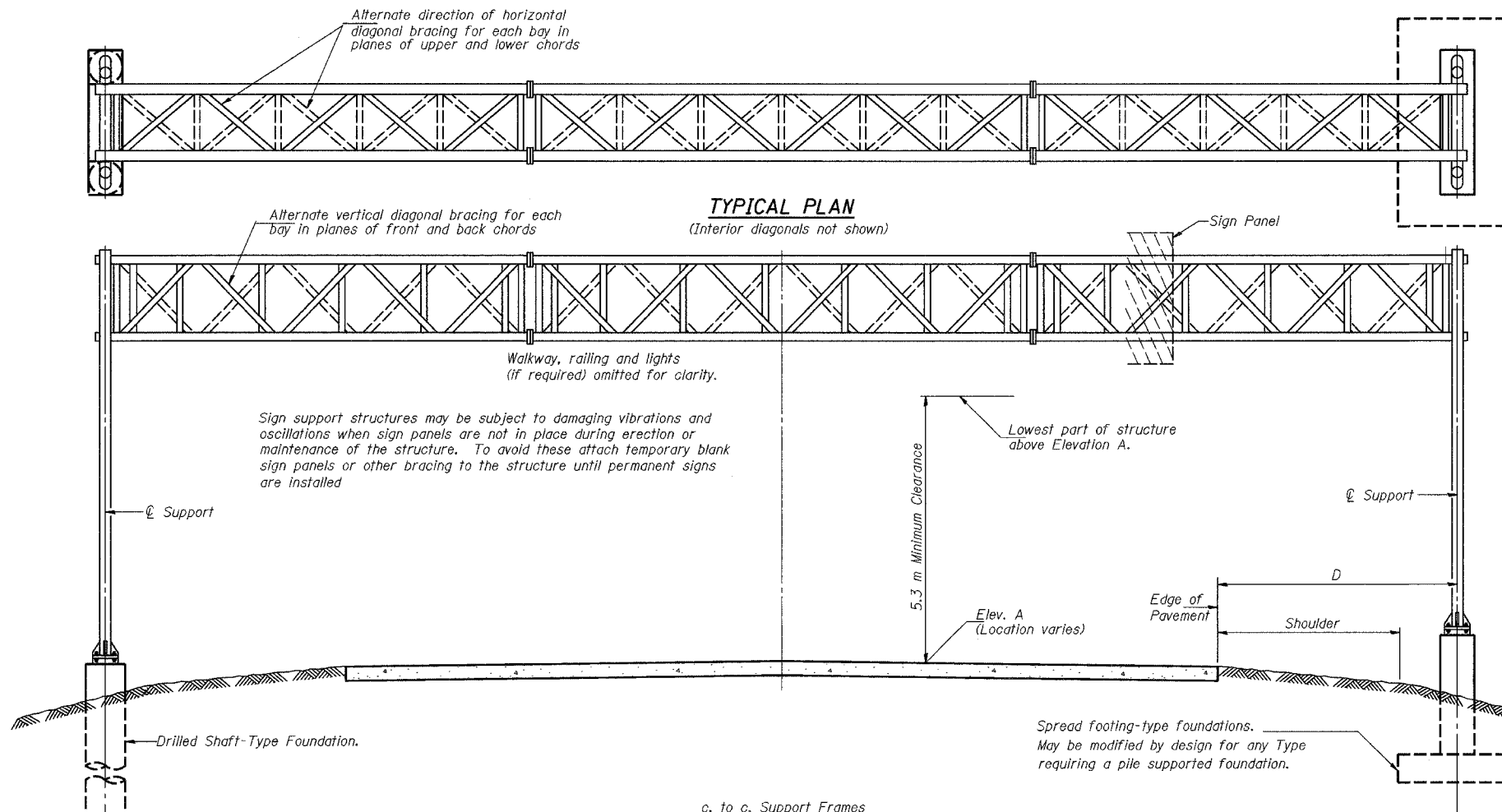
STEEL PIPE: DN indicates nominal diameter.

ANCHOR RODS: Shall conform to AASHTO M314 Gr. 250 or 380 (36 or 55) with a minimum Charpy V-Notch (CVN) energy of 20 J at 5° C.

CONCRETE SURFACES: All concrete surfaces above an elevation 150 mm below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

*If M270M Gr. 345W steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

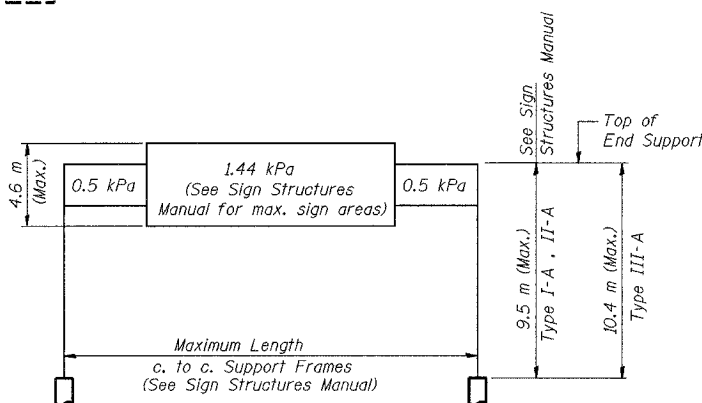


TYPICAL ELEVATION

(Looking at Face of Signs)**

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
ISO161080L162.9	6+951.478	II-A	30.430	188.105	4.75	3.76	43.99
ISO161080R163.1	7+239.540	II-A	26.830	184.070	4.75	4.66	49.75
ISO161080L163.1	7+312.695	II-A	33.447	183.843	7.77	3.76	51.70
ISO161080L163.5	7+948.045	III-A	26.830	184.570	4.75	2.59	25.89

**Looking upstation for structures with signs both sides.



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE TYPE I-A (1.22 x 1.37)	m	90.7
OVERHEAD SIGN STRUCTURE TYPE II-A (1.37 x 1.6)	m	26.8
OVERHEAD SIGN STRUCTURE TYPE III-A (1.52 x 2.13)	m	66.6
CONCRETE FOUNDATIONS	m ³	56.4
DRILLED SHAFT CONCRETE FOUNDATIONS	m ³	56.4

NUMBER	REVISION	DATE

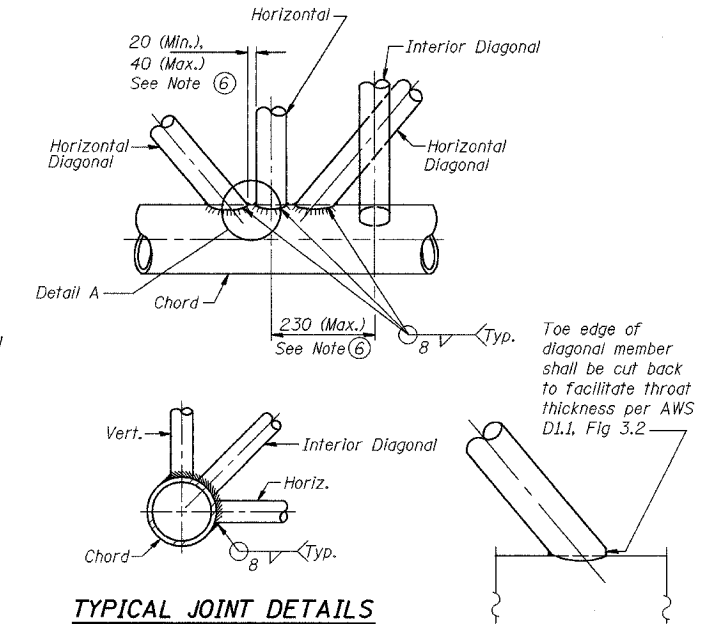
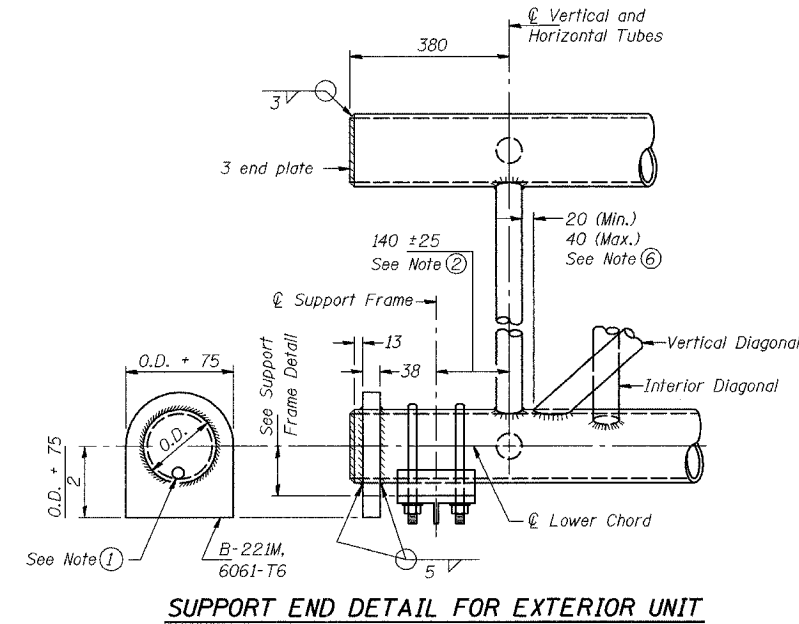
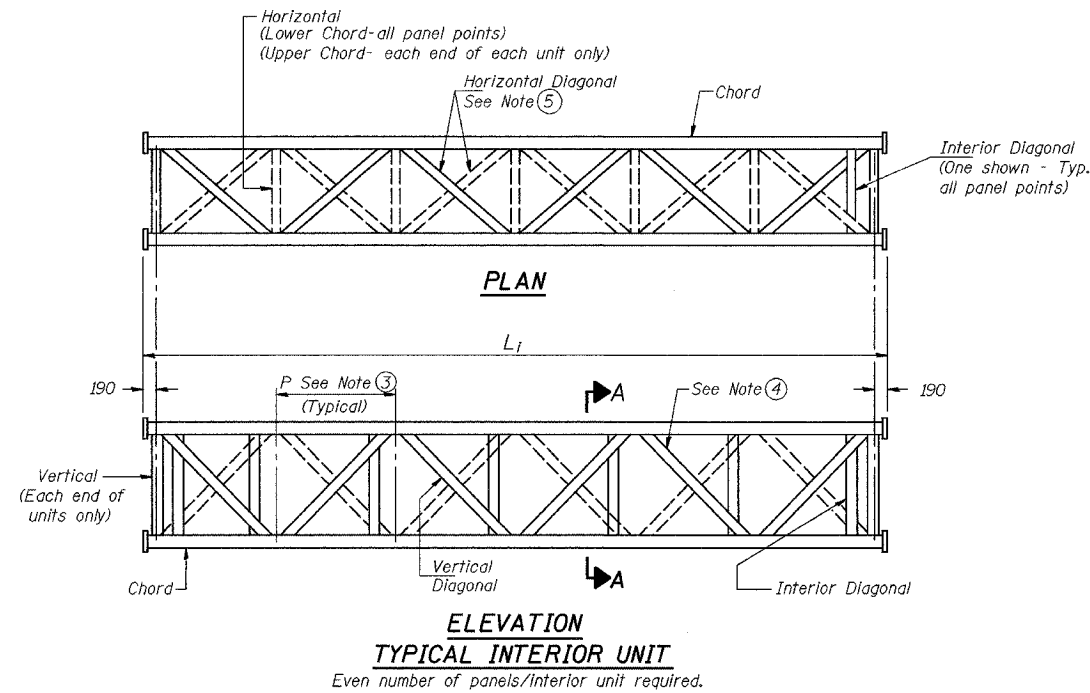
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 I-80/94/US 6
 KINGERY-BORMAN EXPRESSWAY
 BURNHAM ROAD TO US 41
OVERHEAD SIGN STRUCTURES
GENERAL PLAN & ELEVATION
ALUMINIUM TRUSS & STEEL SUPPORTS
 SCALE NONE DRAWN BY ACE/CAD
 DATE 07/05 CHECKED BY TAE

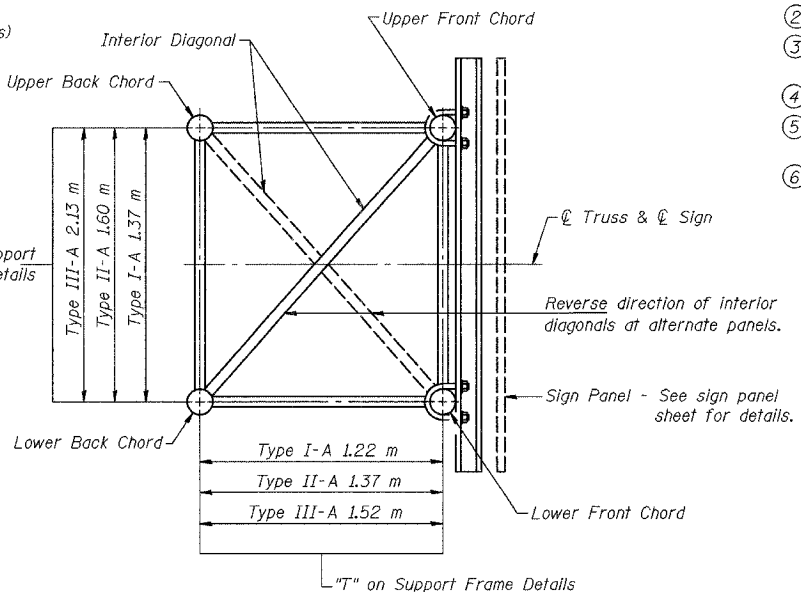
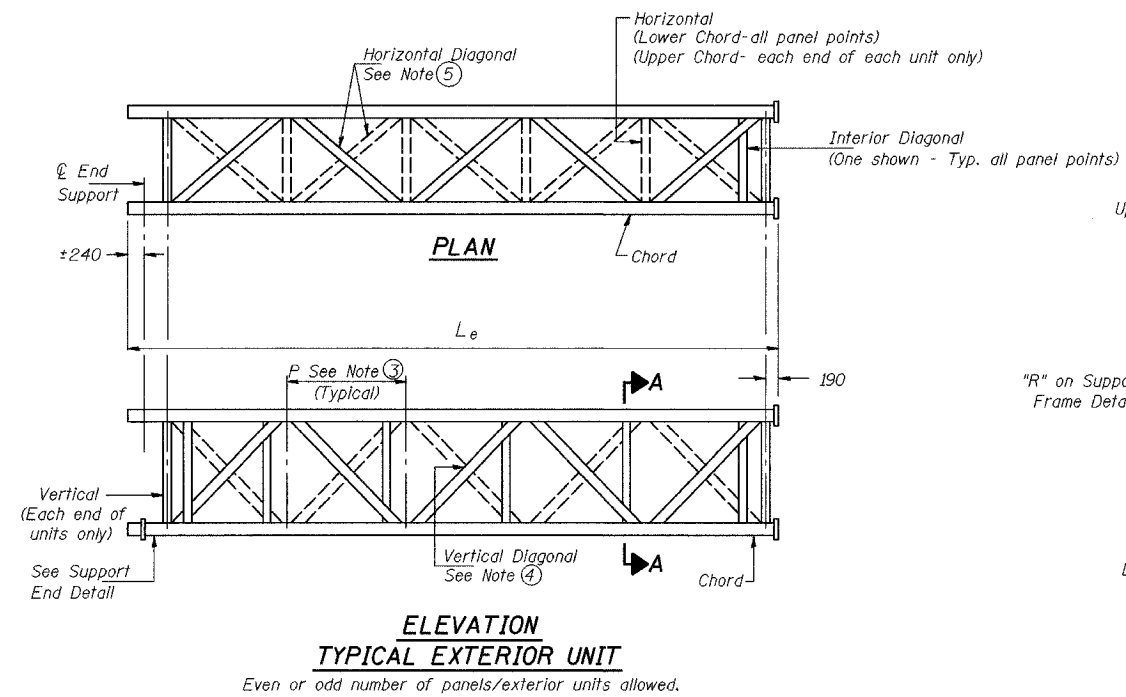
AMERICAN
 CONSULTING ENGINEERS

ALL DIMENSIONS IN MILLIMETERS EXCEPT
PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	373
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



- NOTES**
- Contractor may alternatively use standard aluminum drive-fit cap to close end. 13 mm ϕ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
 - 140 mm end dimension may vary by ± 25 mm to provide uniform panel spacing (P).
 - Panel spacing (P) shall be uniform for entire truss and between 1.20 m and 1.50 m for Type I-A or 1.20 m and 1.65 m for Types II-A and III-A.
 - Vertical Diagonals in front and back face shall alternate.
 - Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
 - All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a 20 mm minimum to 40 mm maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.



SECTION A-A

NUMBER	REVISION	DATE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
**OVERHEAD SIGN STRUCTURES
ALUMINUM TRUSS DETAILS
FOR TRUSS TYPES I-A, II-A and III-A**
SCALE NONE DRAWN BY ACE/CAD
DATE 07/05 CHECKED BY TAE

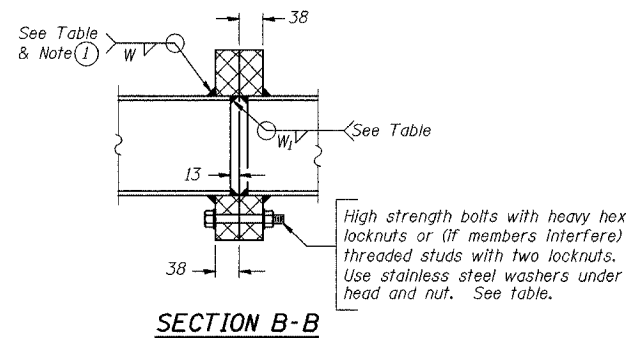
AMERICAN
CONSULTING ENGINEERS

ALL DIMENSIONS IN MILLIMETERS EXCEPT
PAY ITEMS AND UNLESS NOTED OTHERWISE

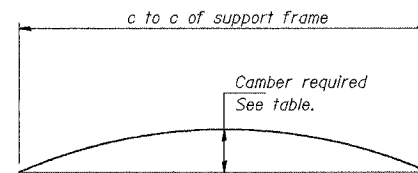
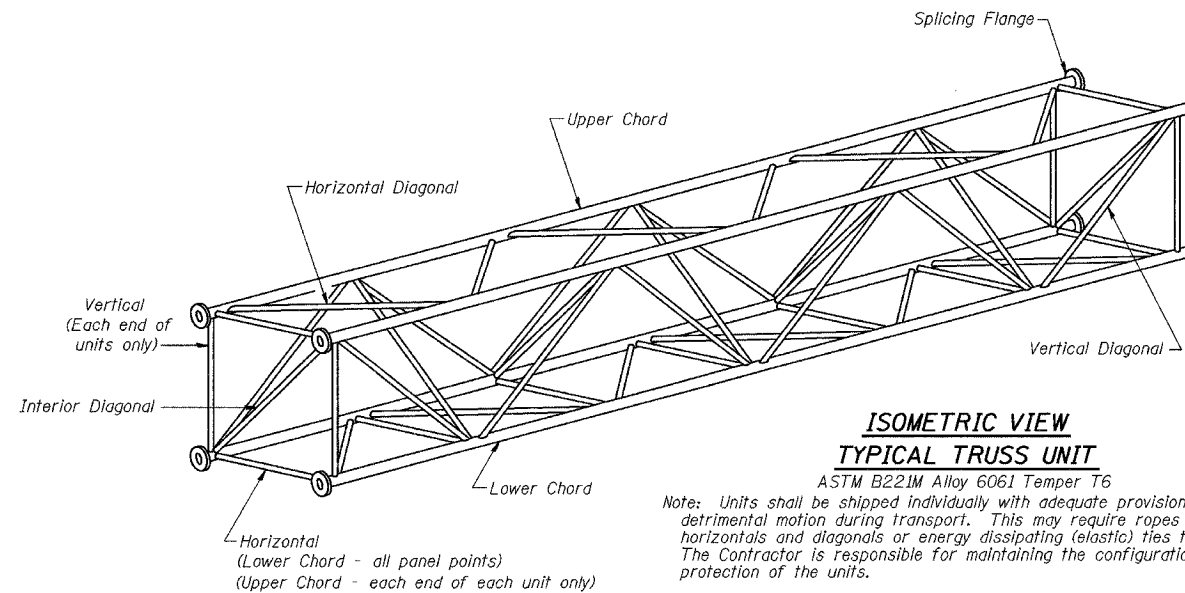
F.A.I. RTE. 80/94	SECTION 2626.2-R-2	COUNTY COOK/LAKE	TOTAL SHEETS 1207	SHEET NO. 374
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

TRUSS UNIT TABLE

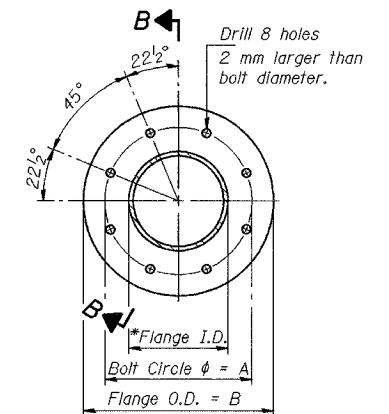
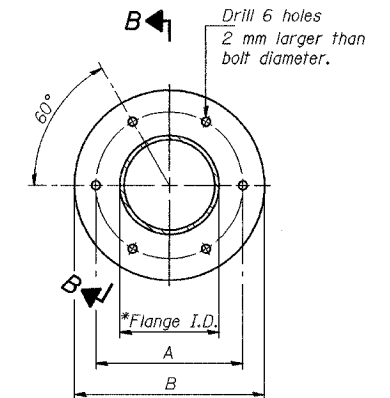
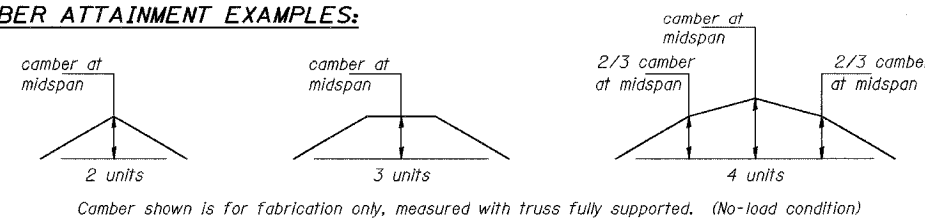
Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(L _e) (m)	Panel Lgth.(P) (m)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L _i) (m)	Panel Lgth.(P) (m)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W _i		
ISO161080L162.9	6+951.478	II-A	7	10.857	1.470	1	6	9.197	1.470	165	8	76	8	62.7	6	M30	10	6	279	368
ISO161080R163.1	7+239.540	II-A	6	9.168	1.433	1	6	8.978	1.433	140	8	76	8	49.3	6	M24	10	6	235	311
ISO161080L163.1	7+312.695	II-A	8	11.370	1.350	1	8	11.180	1.350	178	8	76	8	81.3	6	M30	8	6	292	368
ISO161080L163.5	7+948.045	III-A	6	9.168	1.433	1	6	8.978	1.433	178	8	83	8	42.6	8	M30	14	11	292	381



① Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



CAMBER ATTAINMENT EXAMPLES:



SPLICING FLANGES

ASTM B221M, Alloy 6061-T6
or ASTM B209M, Alloy 6061-T651

*To fit O.D. of Chord with maximum gap of 2 mm.

NUMBER	REVISION	DATE

REVISIONS	
NAME	DATE

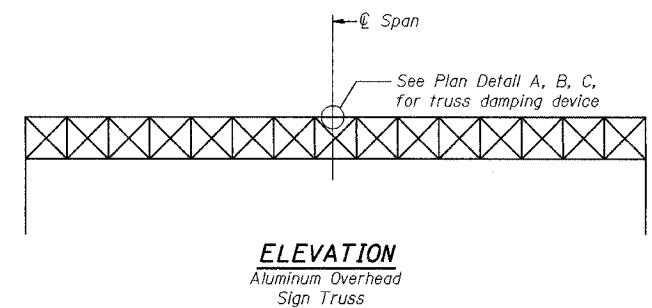
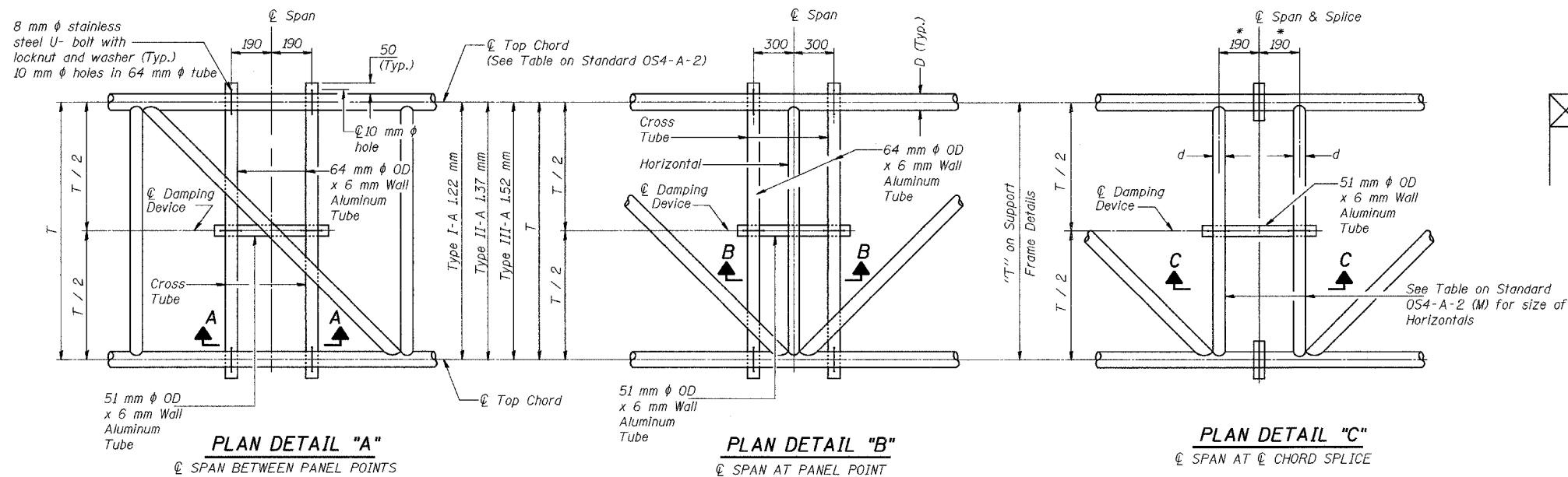
ILLINOIS DEPARTMENT OF TRANSPORTATION
1-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
**OVERHEAD SIGN STRUCTURES
ALUMINUM TRUSS DETAILS**
FOR TRUSS TYPES I-A, II-A and III-A
SCALE NONE DRAWN BY ACE/CAD
DATE 07/05 CHECKED BY TAE

AMERICAN
CONSULTING ENGINEERS

ALL DIMENSIONS IN MILLIMETERS EXCEPT
PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	375
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

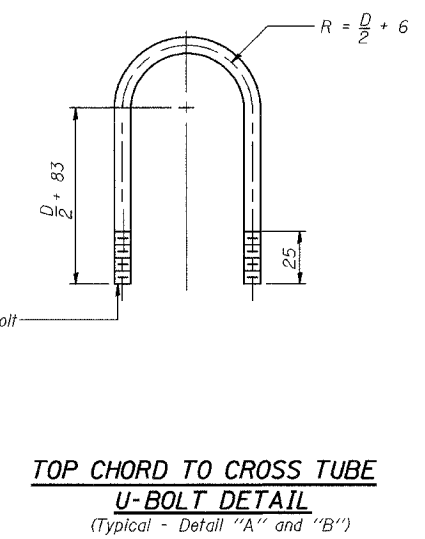
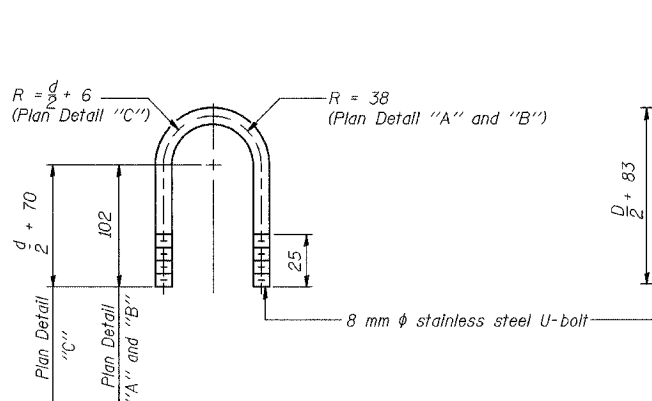
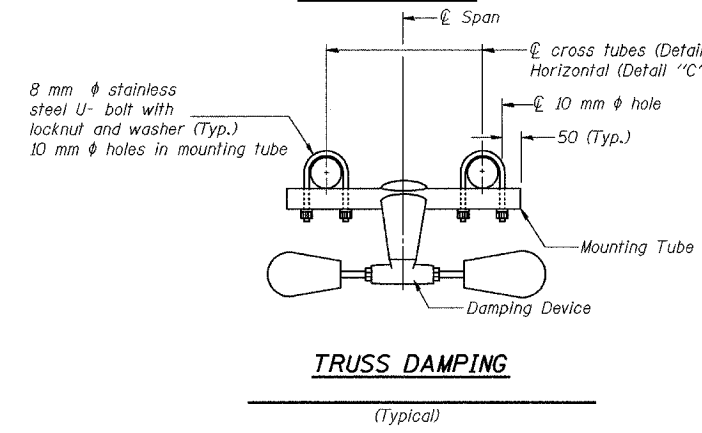
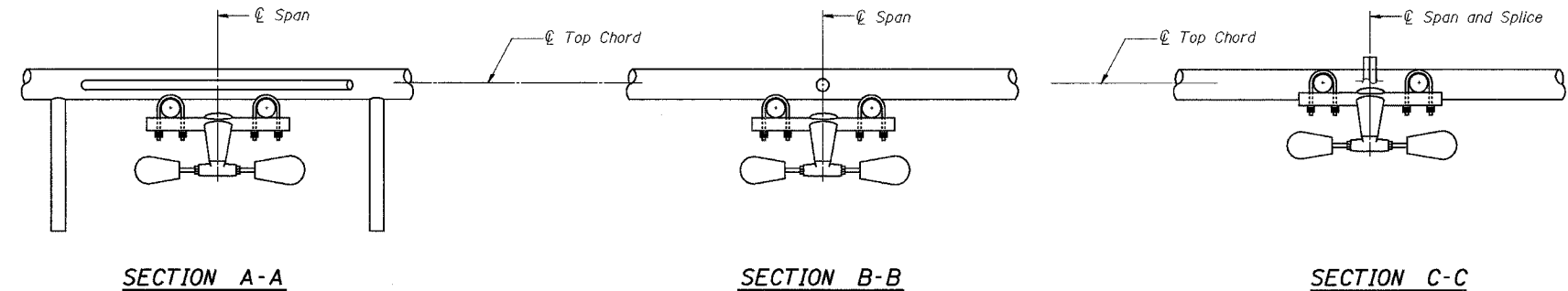


NOTES

Damper: One damper per truss.
(14 Kg Stockbridge-Type Aluminum)
Cost included in "Overhead Sign Structure..."

Materials: Aluminum tubes shall be ASTM B221M alloy 6061 Temper T6. Cost included in "Overhead Sign Structure..."

All dimensions are in millimeters (mm) except as noted



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
**OVERHEAD SIGN STRUCTURES
DAMPING DEVICE**

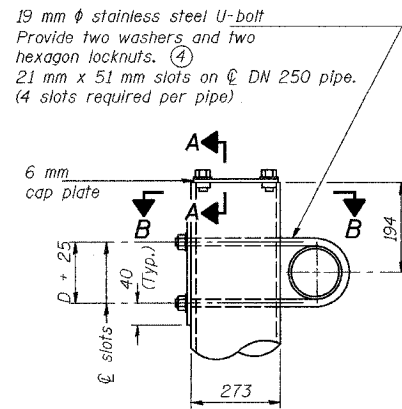
SCALE NONE
DATE 07/05

DRAWN BY ACE/CAD
CHECKED BY TAE

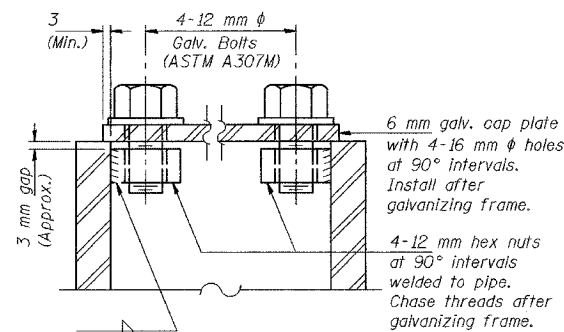
AMERICAN
CONSULTING ENGINEERS

ALL DIMENSIONS IN MILLIMETERS EXCEPT
PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	376
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

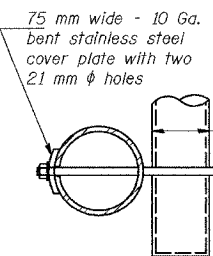


DETAIL A

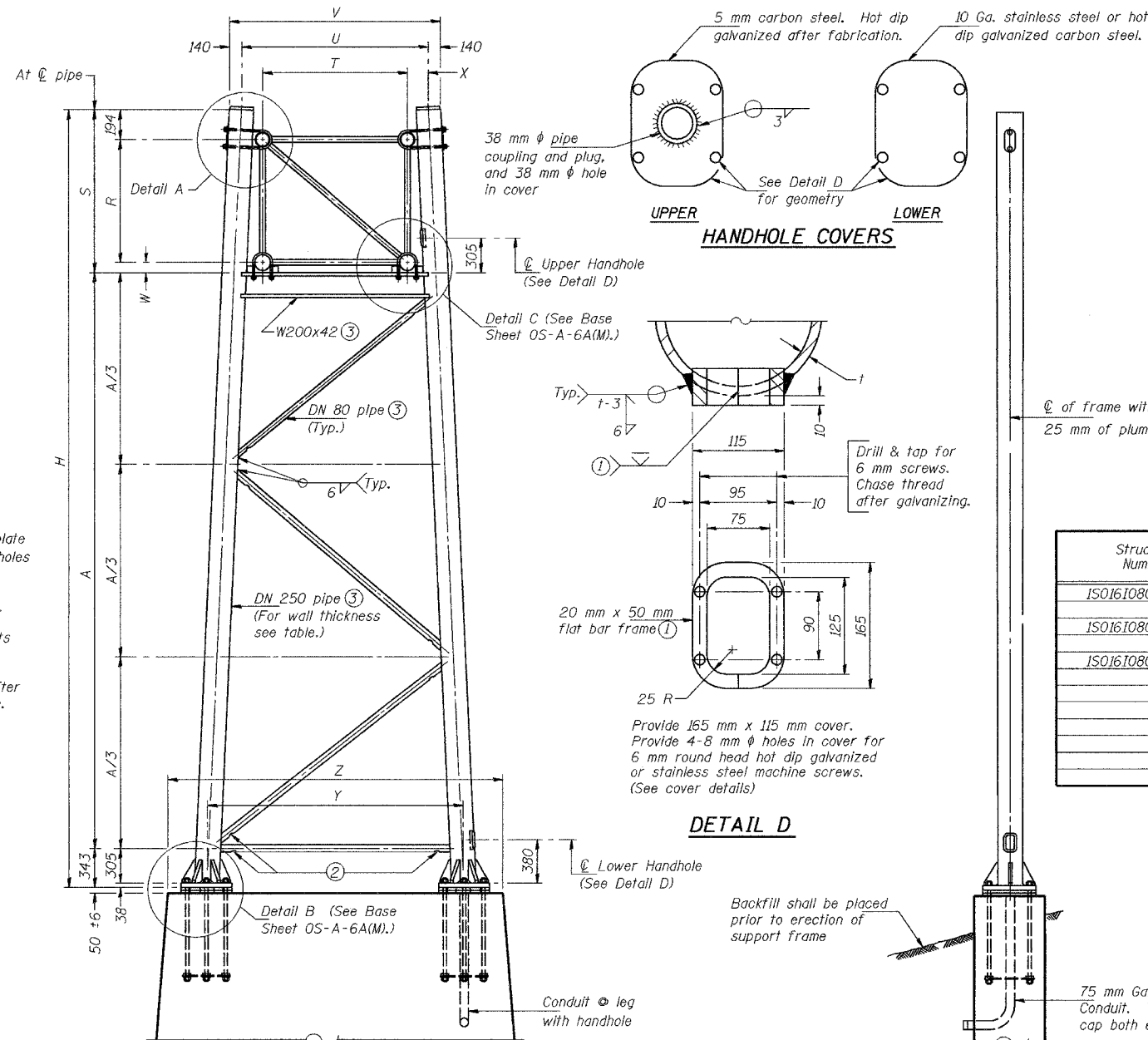


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



SECTION B-B



FOR FOUNDATION DETAILS SEE BASE SHEET OS-F3(M) (Spread Footing) or OS4-F3(M) (Drilled Shaft).

SIDE ELEVATION

DN 250 PIPE TRUSS SUPPORT FRAME

Truss Type	Dimensions								
	R (m)	S (m)	T (m)	U (m)	V (m)	W (mm)	X (mm)	Y (m)	Z (m)
I-A	1.37	1.66	1.22	1.68	1.96	100	230	2.52	3.28
II-A (5)	1.60	1.91	1.37	1.85	2.13	120	240	2.52	3.28

Support Design Loads: See Base Sheet OS-A-1(M) for design and loading criteria.
Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

- In lieu of fabricated handhole frame as shown, may cut from 50 mm plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 12.7 μ m or less.
- Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred. (Typ.)
- Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1(M).
- See General Notes for fasteners.
- Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.

Structure Number	Station	Support		Truss Type	Pipe Wall Thickness	H (m)	A (m)
		Left	Right				
ISO161080L162.9	6+951.478	X		II-A	9	7.842	5.589
			X			8.259	6.006
ISO161080R163.1	7+239.540	X		II-A	9	8.359	6.109
			X			8.624	6.371
ISO161080L163.1	7+312.695	X		II-A	9	7.909	5.656
			X			8.143	5.890

NUMBER	REVISION	DATE

REVISIONS	
NAME	DATE

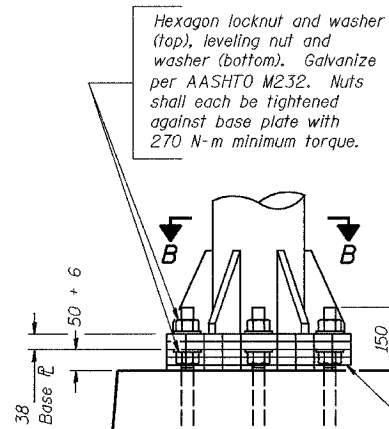
ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
**OVERHEAD SIGN STRUCTURES
SUPPORT FRAME for ALUMINUM TRUSS**

SCALE NONE
DATE 07/05
DRAWN BY ACE/CAD
CHECKED BY TAE

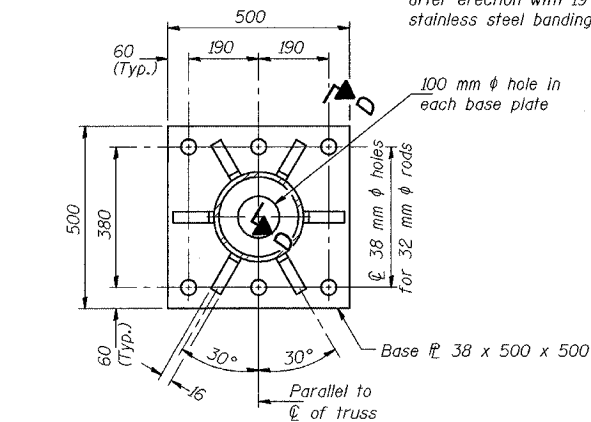


ALL DIMENSIONS IN MILLIMETERS EXCEPT
PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	377
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			

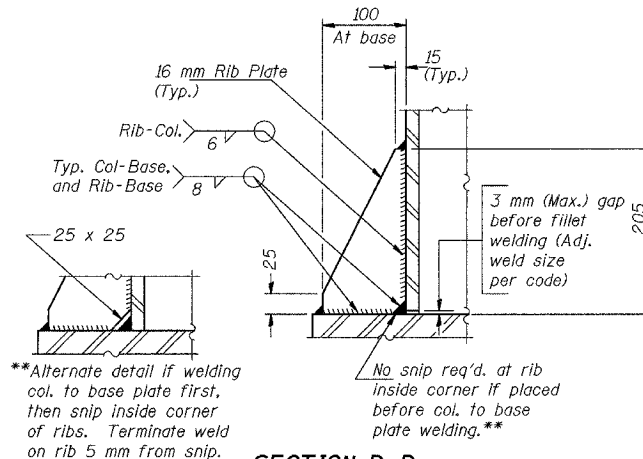


DETAIL B
Ribs shall be cut to fit slope of pipe.

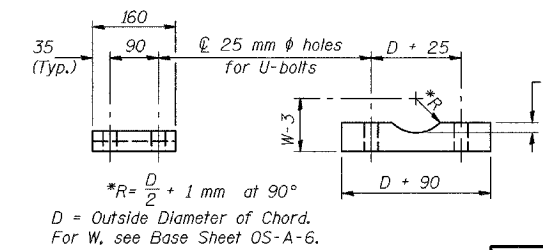


SECTION B-B

NUMBER	REVISION	DATE



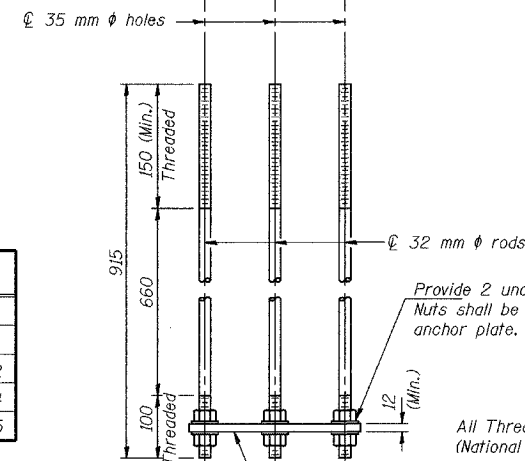
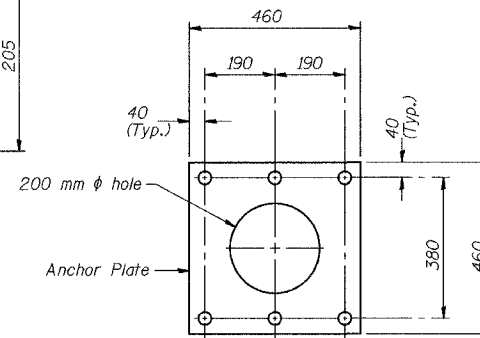
SECTION D-D



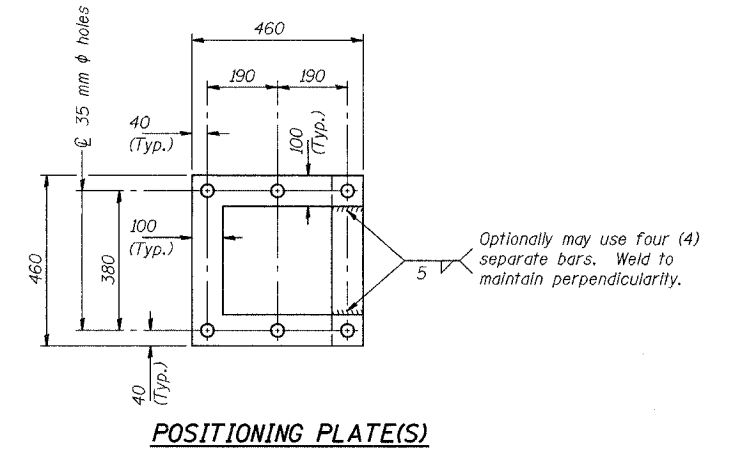
SADDLE SHIM DETAIL

ASTM B26M Alloy 356-F
or
ASTM B209M Alloy 6061-T651
(4 required per sign truss)

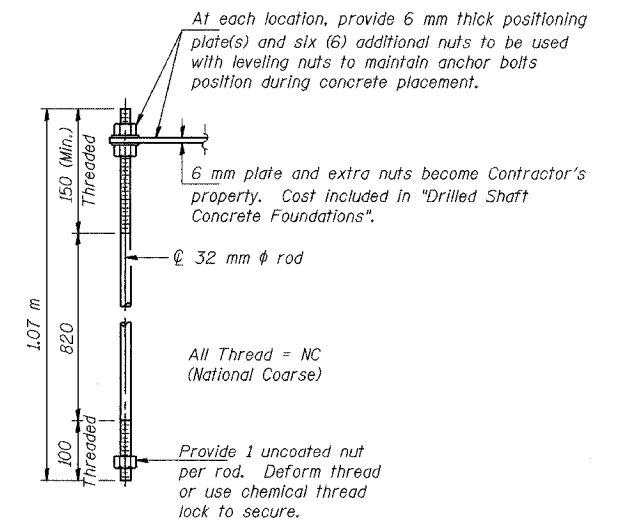
Truss Chord Nominal Dia.	a
127	19
140	21
152	22
165	24
178	25



ANCHOR ROD DETAIL
Spread Footing Foundation



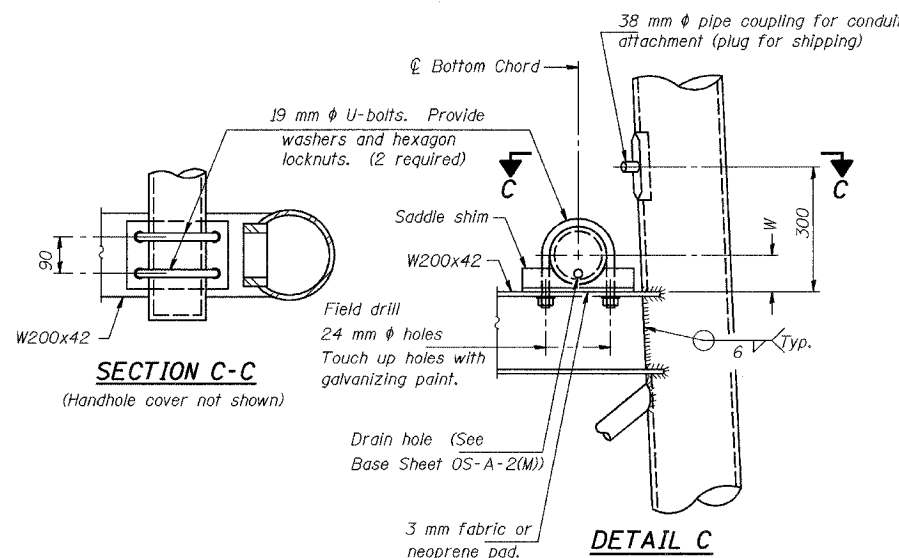
POSITIONING PLATE(S)



ANCHOR ROD DETAIL
Drilled Shaft Foundation

Anchor rods shall conform to AASHTO M314M Grade 250 or 380 (36 or 55) and meet Charpy V-Notch (CVN) energy of 20 J at 5°C. Galvanize upper 305 mm per AASHTO M232. No welding shall be permitted on rods.

DN 250 PIPE SUPPORT FRAME DETAILS



SECTION C-C
(Handhole cover not shown)

DETAIL C

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
**OVERHEAD SIGN STRUCTURES
SUPPORT FRAME DETAILS ALUMINUM TRUSS**

REVISIONS	
NAME	DATE

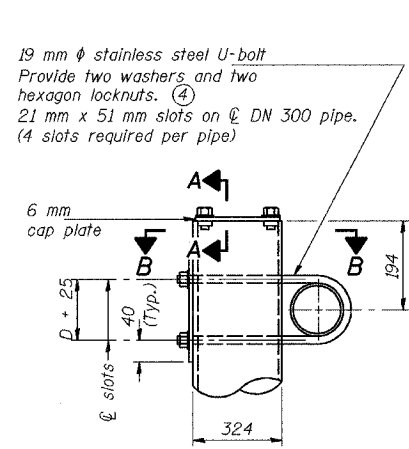
SCALE NONE
DATE 07/05

DRAWN BY ACE/CAD
CHECKED BY TAE

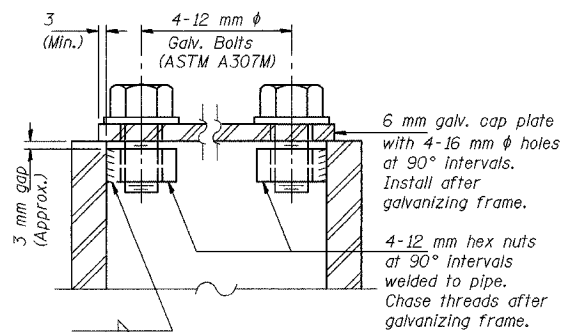


ALL DIMENSIONS IN MILLIMETERS EXCEPT
PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE. 80/94	SECTION 2626.2-R-2	COUNTY COOK/LAKE	TOTAL SHEETS 1207	SHEET NO. 378
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

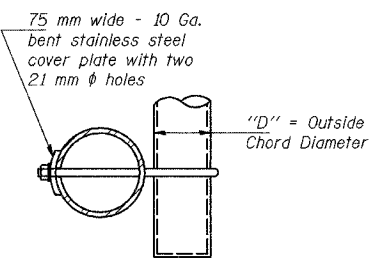


DETAIL A

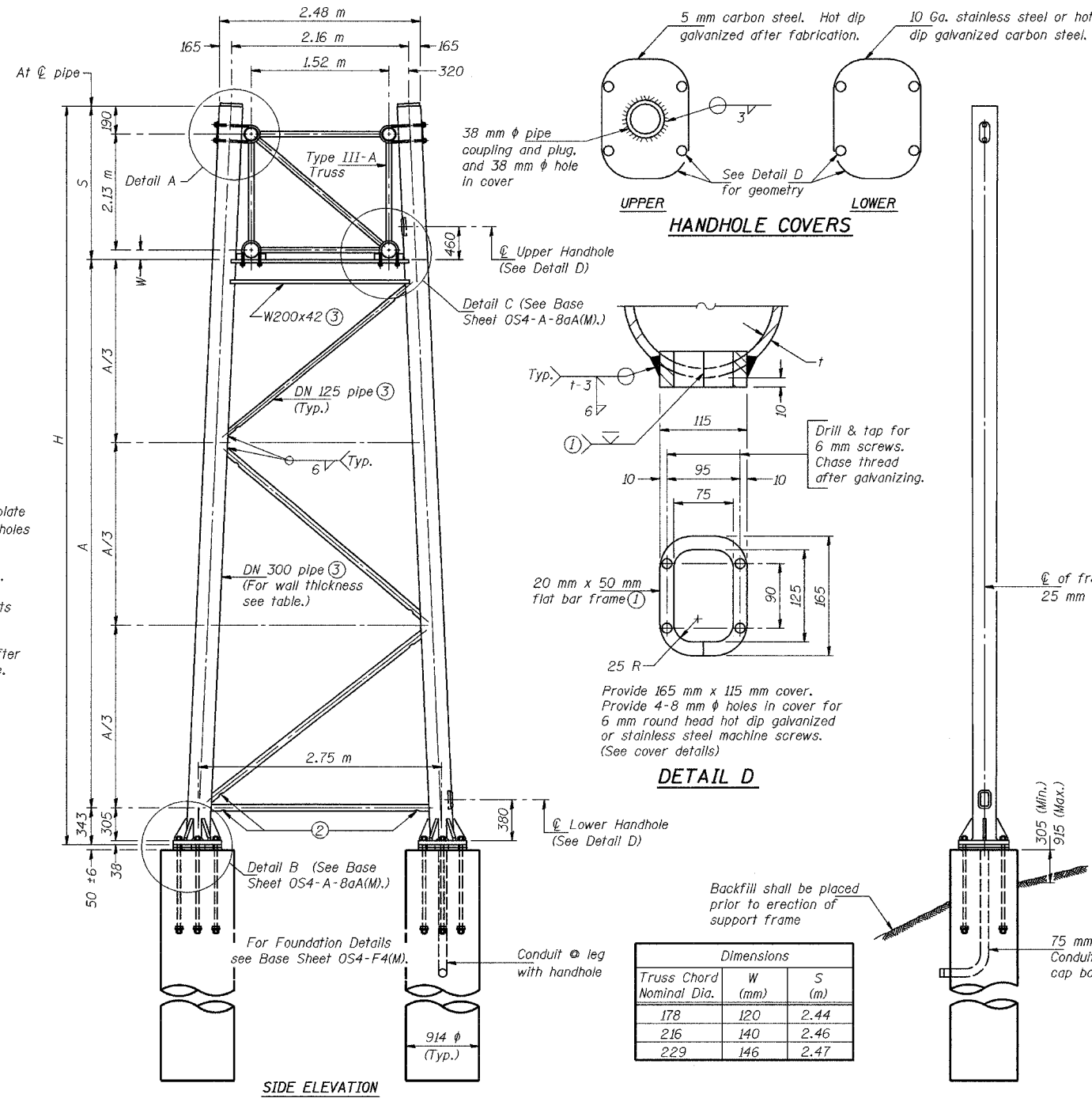


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



SECTION B-B



DETAIL D

Dimensions		
Truss Chord Nominal Dia.	W (mm)	S (m)
178	120	2.44
216	140	2.46
229	146	2.47

Support Design Loads: See Base Sheet OS-A-1(M) for design and loading criteria.
Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

- ① In lieu of fabricated handhole frame as shown, may cut from 50 mm plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 12.7 μ m or less.
- ② Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred. (Typ.)
- ③ Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1(M).
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.

Structure Number	Station	Support		Pipe Wall Thickness	H (m)	A (m)
		Left	Right			
IS0161080L163.5	7+948.045	X	X	10	7.985	5.202
					8.721	5.938

NUMBER	REVISION	DATE

TRUSS SUPPORT DETAILS
(DN 300 Pipe-Type III-A Truss)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
1-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
OVERHEAD SIGN STRUCTURES
SUPPORT FRAME for TYPE III-A
ALUMINUM TRUSS

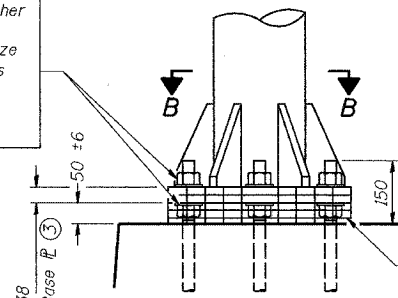
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DATE 07/05 CHECKED BY TAE

AMERICAN
CONSULTING ENGINEERS

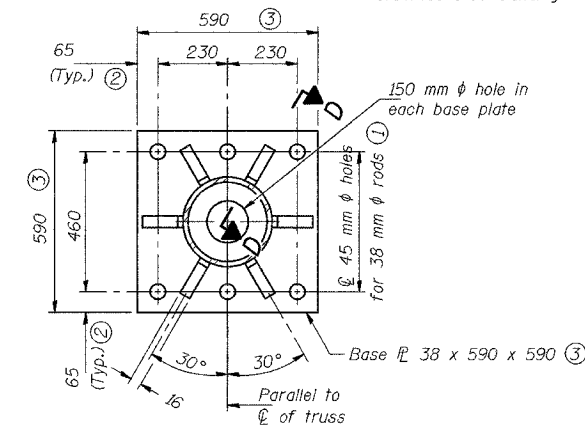
ALL DIMENSIONS IN MILLIMETERS EXCEPT
PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	379
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			

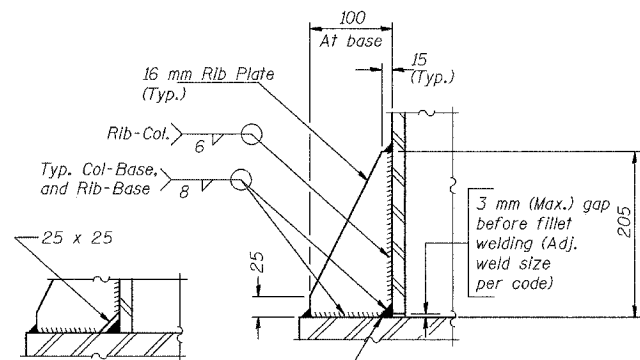
Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 270N-m minimum torque.



DETAIL B
Ribs shall be cut to fit slope of pipe.
Stainless Steel Standard Grade Wire Cloth, 75 mm wide, 6 mm maximum opening with a minimum wire diameter of AWG. No. 1.5 mm with a minimum 50 mm lap. Secure to base plate after erection with 19 mm stainless steel banding.

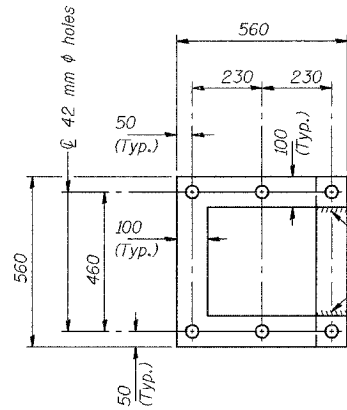


SECTION B-B



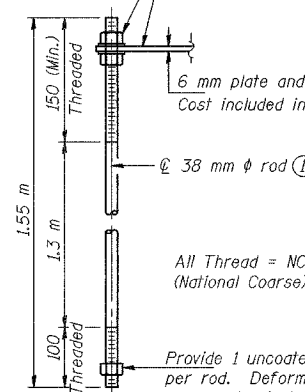
**Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 5 mm from snip.

SECTION D-D



POSITIONING PLATE(S)

At each location, provide 6 mm thick positioning plate(s) and six (6) additional nuts to be used with leveling nuts to maintain anchor bolts position during concrete placement.



ANCHOR ROD DETAIL

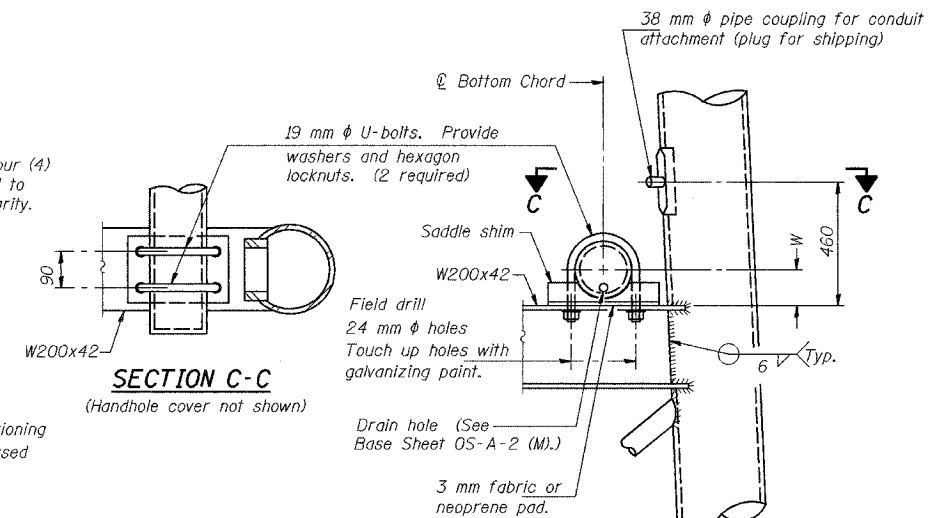
Anchor rods shall conform to AASHTO M314 Grade or 380 (36 or 55) and meet Charpy V-Notch (CVN) energy energy of 20 J at 5° C. Galvanize upper 305 mm per AASHTO M232. No welding shall be permitted on rods.

**TYPE III-A TRUSS
DN 300 PIPE SUPPORT FRAME DETAILS**

Notes: For Type III-A Truss spans greater than 45.7 m, and up to 48.8 m:

- ① 44 mm ϕ rod, 51 mm ϕ holes
- ② 70 mm edge distance
- ③ Base ϕ 41 x 600 x 600

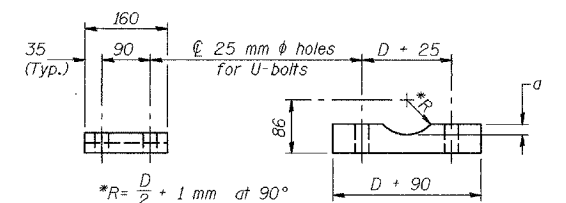
NUMBER	REVISION	DATE



SECTION C-C

(Handhole cover not shown)

DETAIL C



SADDLE SHIM DETAIL

ASTM B26M Alloy 356-F
or
ASTM B209M Alloy 6061-T651
(4 required per sign truss)

Truss Chord Nominal Dia.	a
178	25
216	32
229	35

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
**OVERHEAD SIGN STRUCTURES
SUPPORT FRAME for TYPE III-A
ALUMINIUM TRUSS**

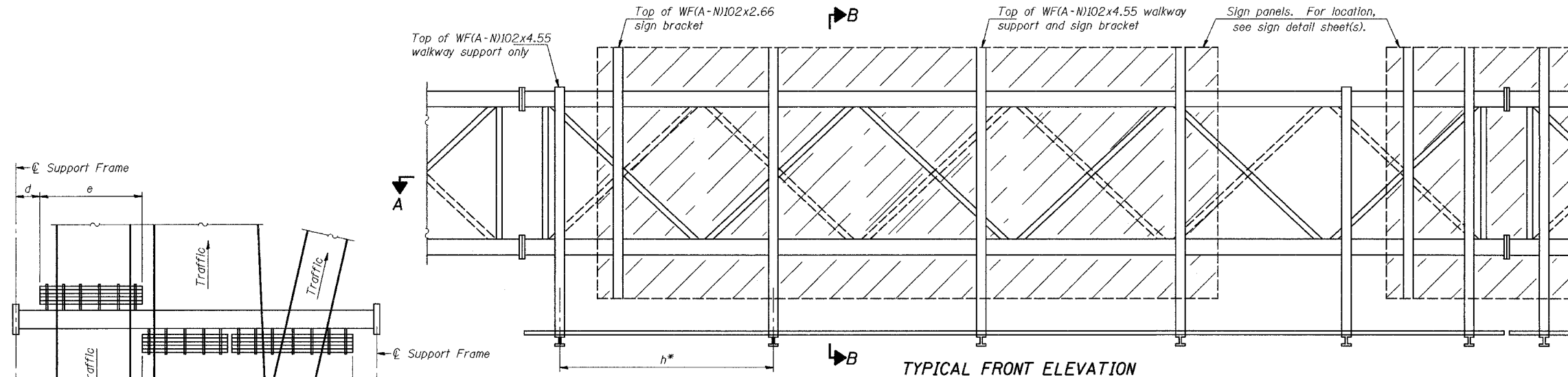
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DATE 07/05 CHECKED BY TAE

AMERICAN
CONSULTING ENGINEERS

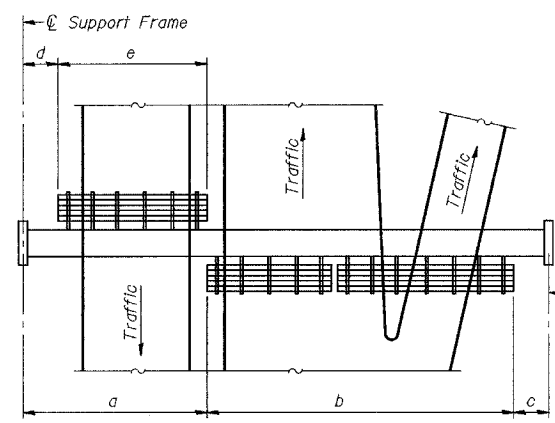
REVISIONS	
NAME	DATE

ALL DIMENSIONS IN MILLIMETERS EXCEPT
PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE. 80/94	SECTION 2626.2-R-2	COUNTY COOK/LAKE	TOTAL SHEETS 1207	SHEET NO. 380
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		CONTRACT NO. 62114		
		INDOT DES. NO. 0100987		



TYPICAL FRONT ELEVATION
With lights and handrail omitted for clarity.
For Section B-B, see Base Sheet OS-A-10(M).



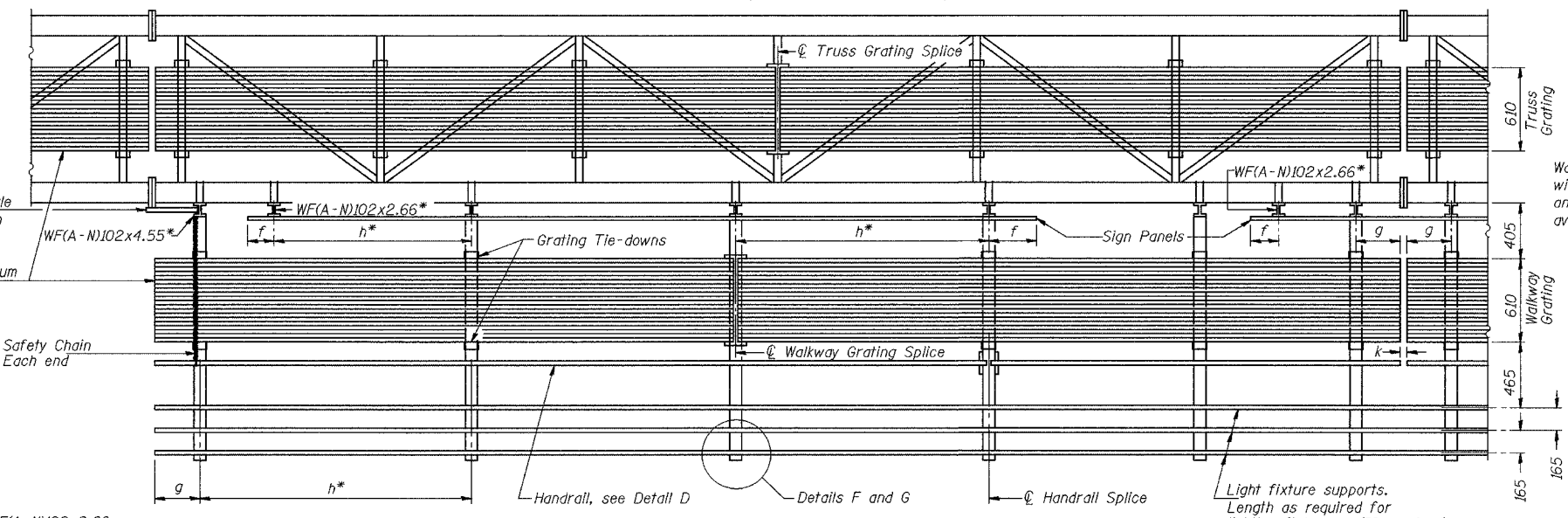
PLAN WALKWAY AND HANDRAIL SKETCH
(Road plan beneath truss varies)

BRACKET TABLE

WF(A-N)102x2.66 or WF(A-N)102x4.55 ASTM B308M, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
2.45	4.3	2
4.3	6.15	3
6.15	8.0	4
8.0	9.85	5
		6

Notes: *Space walkway brackets WF(A-N)102x4.55 and sign brackets WF(A-N)102x2.66 for efficiency and within limits shown:
 f = 300 mm maximum, 100 mm minimum (End of sign to ϕ of nearest bracket)
 g = 300 mm maximum, 100 mm minimum (End of walkway grating to ϕ of nearest support bracket)
 h = 1.85 m maximum (ϕ to ϕ sign and/or walkway support brackets, WF(A-N)102x2.66 or WF(A-N)102x4.55)
 k = 50 mm maximum gap between adjacent walkway grating sections and handrail ends
 **If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet OS-A-11(M).
 For Details T and W, Section B-B and Grating Splice Details, see Base Sheet OS-A-10(M).
 For Details D, F, G and P and Handrail Splice Details, see Base Sheet OS-A-11(M).

NUMBER	REVISION	DATE



SECTION A-A

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.

Truss grating to facilitate inspection shall run full length (center to center of support frames) ± 305 mm on overhead sign structures. Cost of truss grating is included in "Overhead Sign Structure".

Structure Number	Station	a (m)	b (m)	c (m)	d (m)	e (m)	Walkway Grating and Handrail Lengths
ISO161080L162.9	6+951.478	12.75	14.13	3.55	-	-	14.13
ISO161080R163.1	7+239.540	7.78	15.50	3.55	-	-	15.50
ISO161080L163.1	7+312.695	7.08	19.80	6.57	-	-	19.80

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
**OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS**

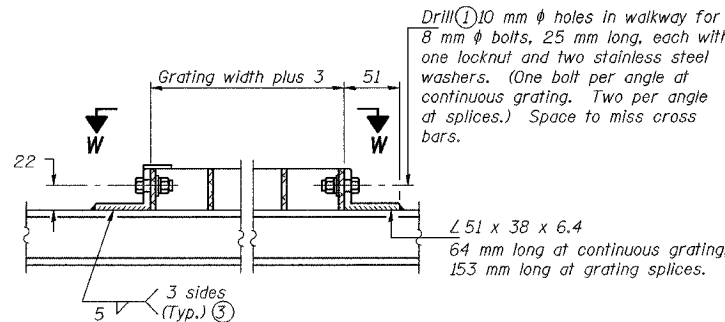
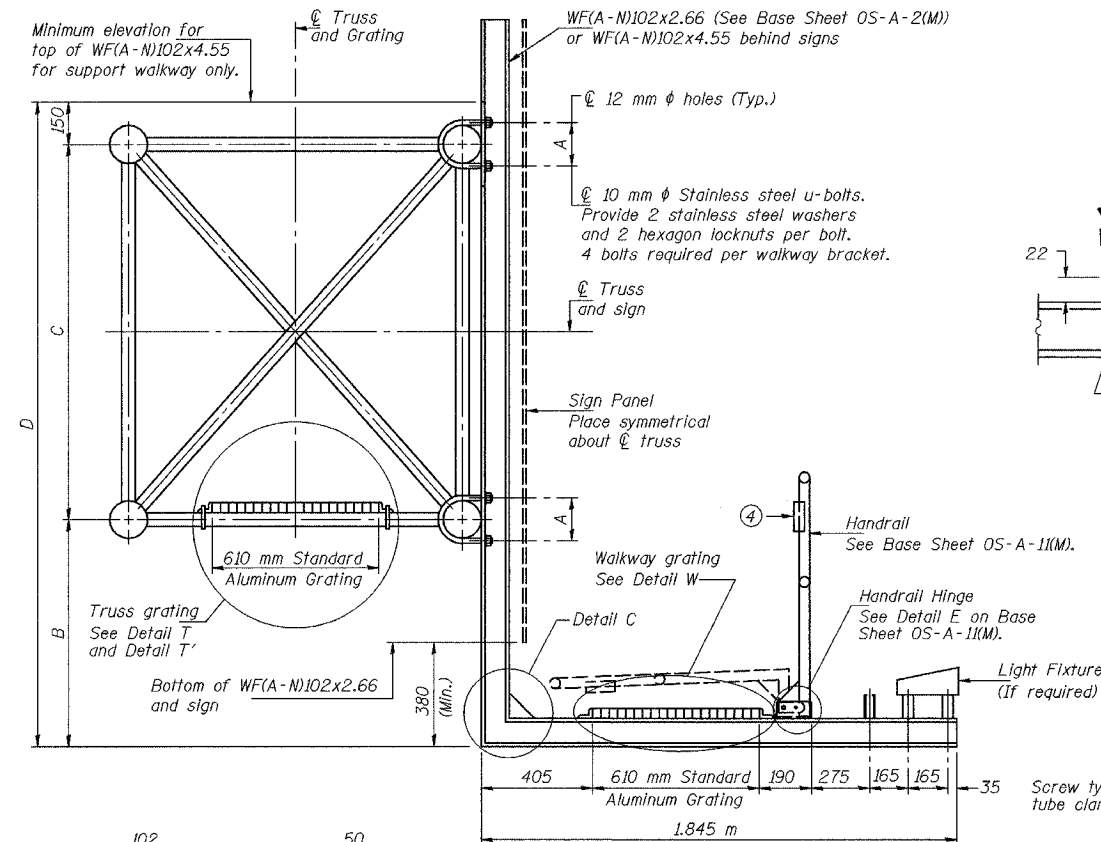
SCALE NONE
DATE 07/05

DRAWN BY ACE/CAD
CHECKED BY TAE

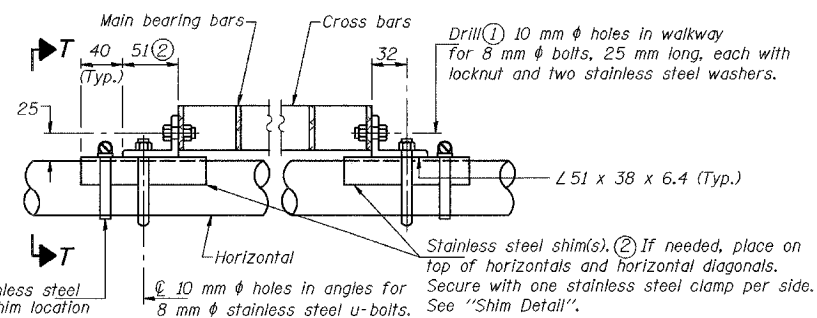
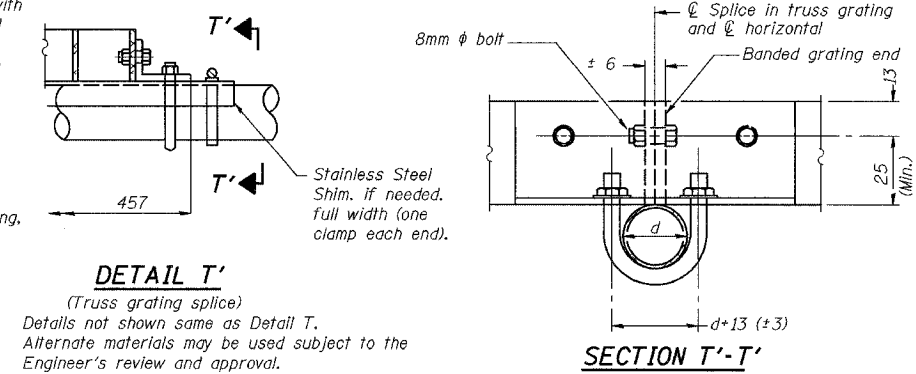
AMERICAN
CONSULTING ENGINEERS

ALL DIMENSIONS IN MILLIMETERS EXCEPT
PAY ITEMS AND UNLESS NOTED OTHERWISE

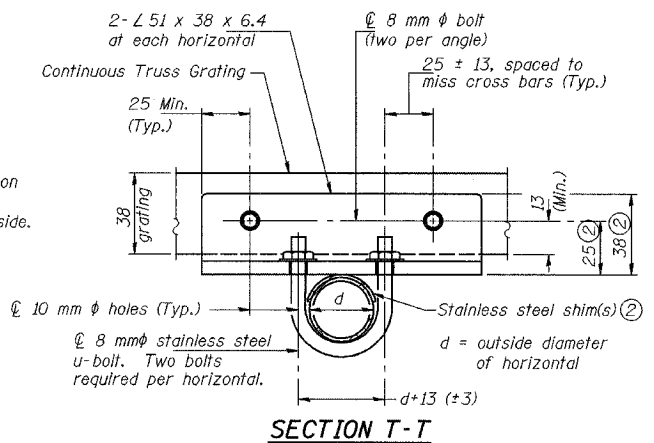
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	381
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



DETAIL W
(Walkway grating)



DETAIL T



SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 5 mm x 38 mm on 30 mm centers and conform to ASTM B221M Alloy 6061-T6.

Cross bars shall be 5 mm x 38 mm on 102 mm centers and conform to ASTM B221M Alloy 6063-T5 or 6061-T6

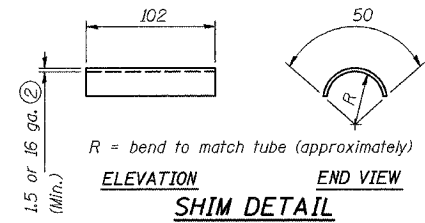
OR

Aluminum Grating with modified "T" sections for main bearing bars shall meet the following requirements:

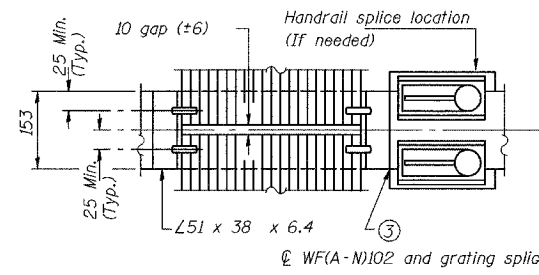
Main bars shall conform to ASTM B221M Alloy 6061-T6 and have a minimum section modulus equal to $1.16 \times 10^3 \text{ mm}^3$ per bar, a depth of 38 mm, spaced on 30 mm centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 100 mm centers.

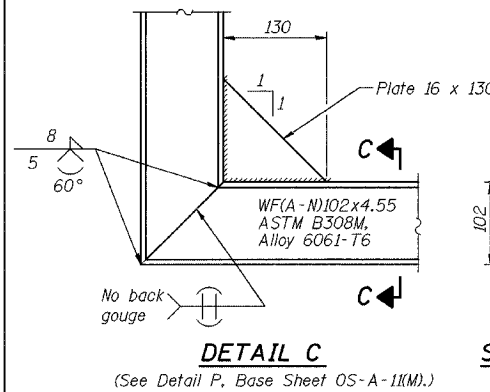
- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- If Handrail Joint present, weld angle to WF(A-N)102 and 6 mm extension bars. (See Base Sheet OS-A-11(M).)
- 3 mm x 13 mm x 50 mm welded to handrail posts to protect locations that contact grating.



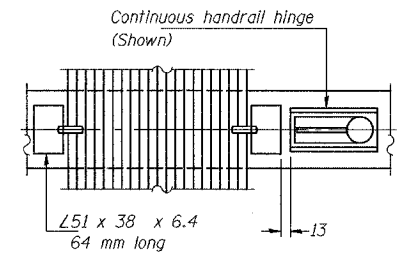
SECTION B-B



(AT WALKWAY GRATING SPLICE)



SECTION C-C



NUMBER	REVISION	DATE

Structure Number	Station	A	B	C	D
ISO161080L162.9	6+951.478	173	1.46	1.6	3.21
ISO161080R163.1	7+239.540	148	1.91	1.6	3.66
ISO161080L163.1	7+312.695	186	1.46	1.6	3.21

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
**OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS**

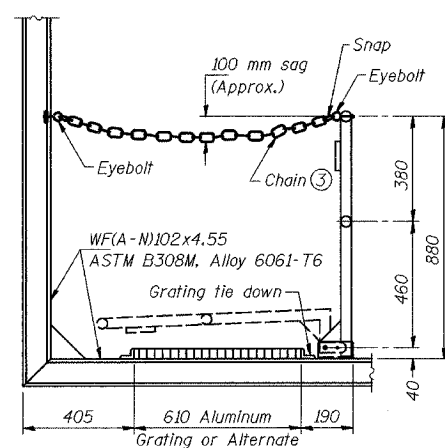
SCALE NONE DRAWN BY ACE/CAD
DATE 07/05 CHECKED BY TAE

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I:\Sheets\11010151.dwg 09/12/2005 08:05:31 AM

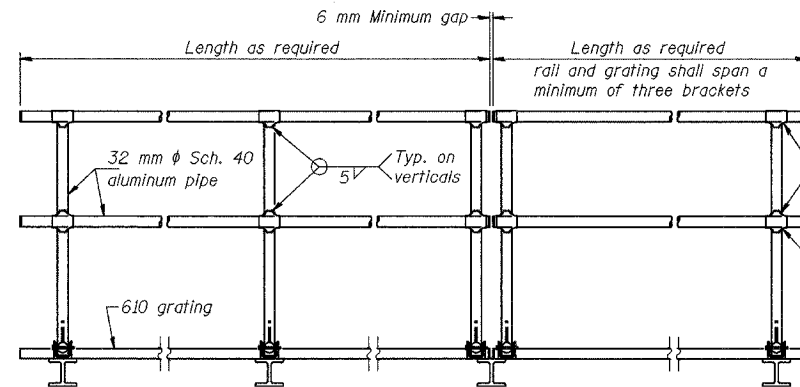
ALL DIMENSIONS IN MILLIMETERS EXCEPT
PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	382
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



SIDE ELEVATION

(Showing safety chain w/o sign)

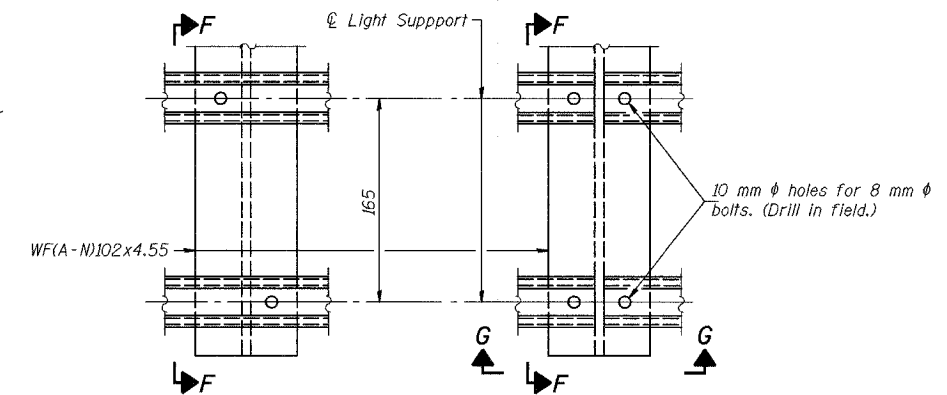


FRONT ELEVATION

HANDRAIL DETAILS

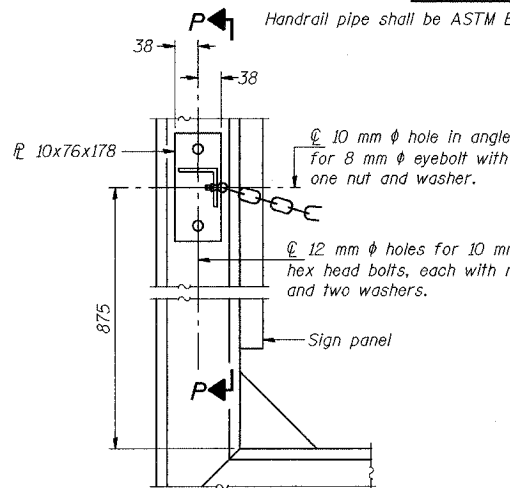
① Install standard force-fit end caps or weld 3 mm end plates with 3 mm c.f.w. and grind smooth. (All rail ends)

② Horizontal handrail member shall be continuous thru fitting. Provide 12 mm ϕ hole in fitting for 10 mm ϕ bolt. Field drill 12 mm ϕ hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 8 mm eyebolts in 12 mm ϕ holes on top rail at ends only.)



DETAIL F

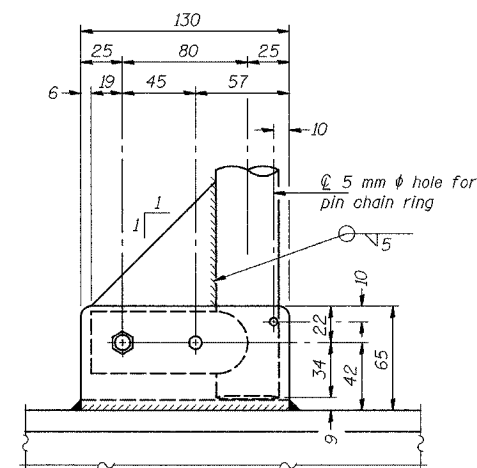
DETAIL G



ALTERNATE SAFETY CHAIN ATTACHMENT

(With Sign Present)

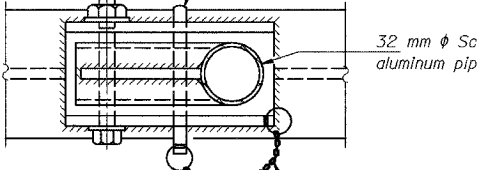
Items not shown same as "Side Elevation" of "Handrail Details"



SIDE ELEVATION

Drill and ream for 10 mm ϕ stainless steel bolt with hexagon locknut and two stainless steel washers.

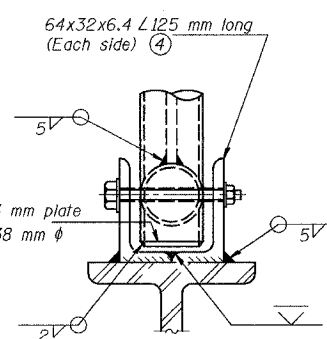
Drill 8 mm ϕ hole for 6 mm ϕ ring-grip quick release self-locking stainless steel pin



PLAN

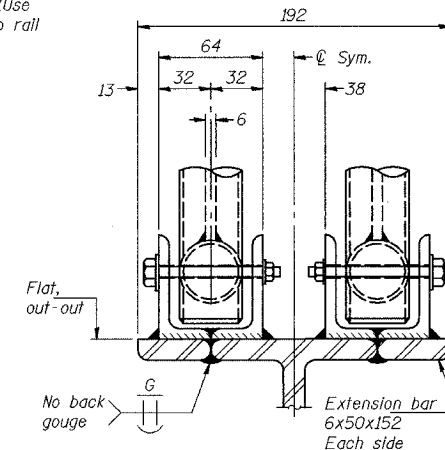
DETAIL E HANDRAIL HINGE

NUMBER	REVISION	DATE



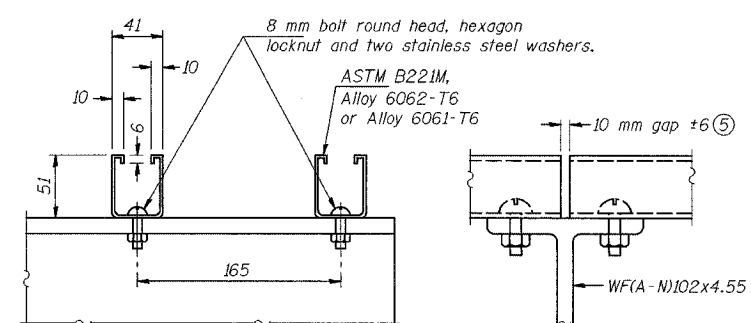
FRONT ELEVATION

See "ELEVATION" at right for dimensions.



ELEVATION AT HANDRAIL JOINT

Details not shown same as "FRONT ELEVATION"

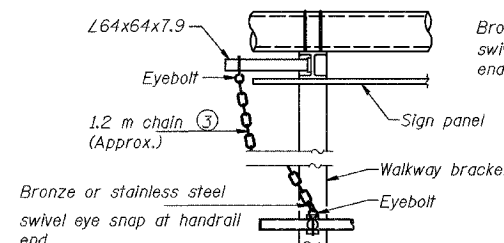


SECTION F-F

SECTION G-G

LIGHTING FIXTURE MOUNTS (IF REQUIRED)

⑤ Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.

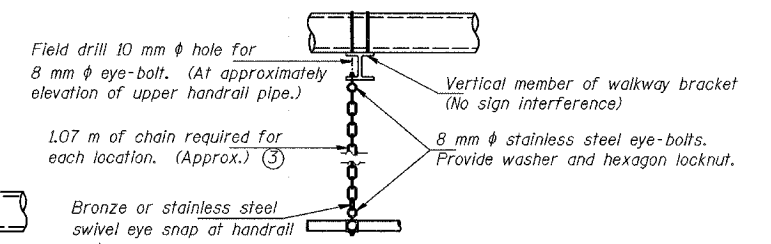


ALTERNATE SAFETY CHAIN ATTACHMENT

Details not shown similar to "Safety Chain" Details (Walkway omitted for clarity)

③ 5 mm galvanized steel chain, approximately 40 links per meter. Chain to be hot dip galvanized after manufacture and suitable for prolonged exterior exposure. Alternate materials may be substituted with the Engineer's approval.

④ Extrusions may be used in lieu of the details shown, with approval of the Engineer.



SAFETY CHAIN

One required for each end of each walkway.

Note: All eyebolts, bolts, nuts and washers shall be stainless steel. For material, see General Notes.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
**OVERHEAD SIGN STRUCTURES
ALUMINUM HANDRAIL DETAILS**

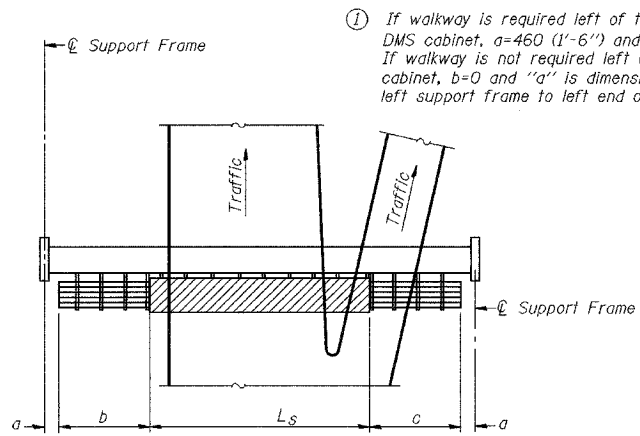
SCALE NONE
DATE 07/05
DRAWN BY ACE/CAD
CHECKED BY TAE



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALL DIMENSIONS IN MILLIMETERS EXCEPT
PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	384
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			

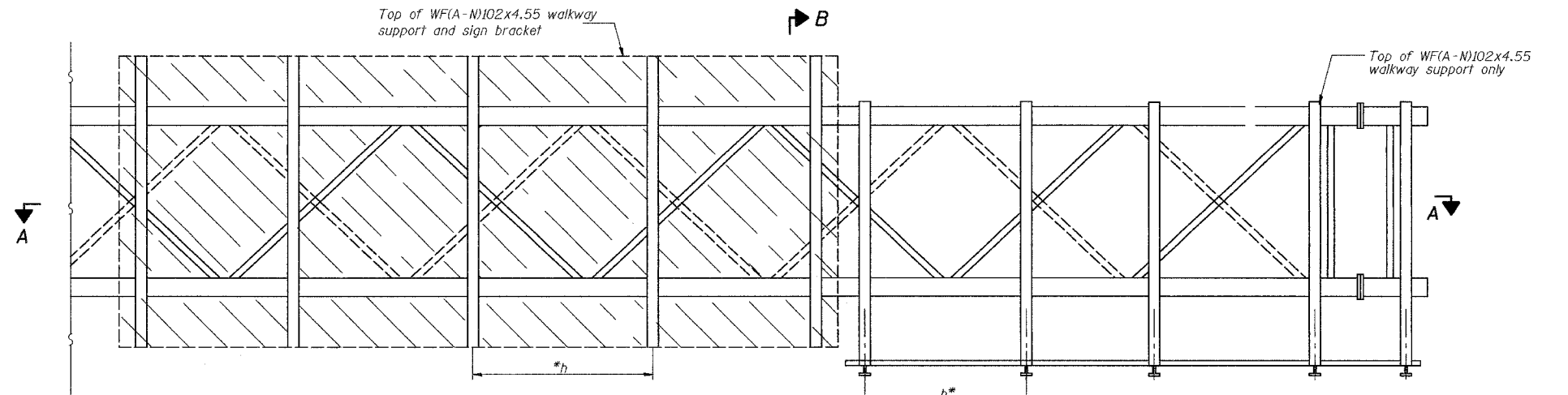


PLAN
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath truss varies)

BRACKET TABLE

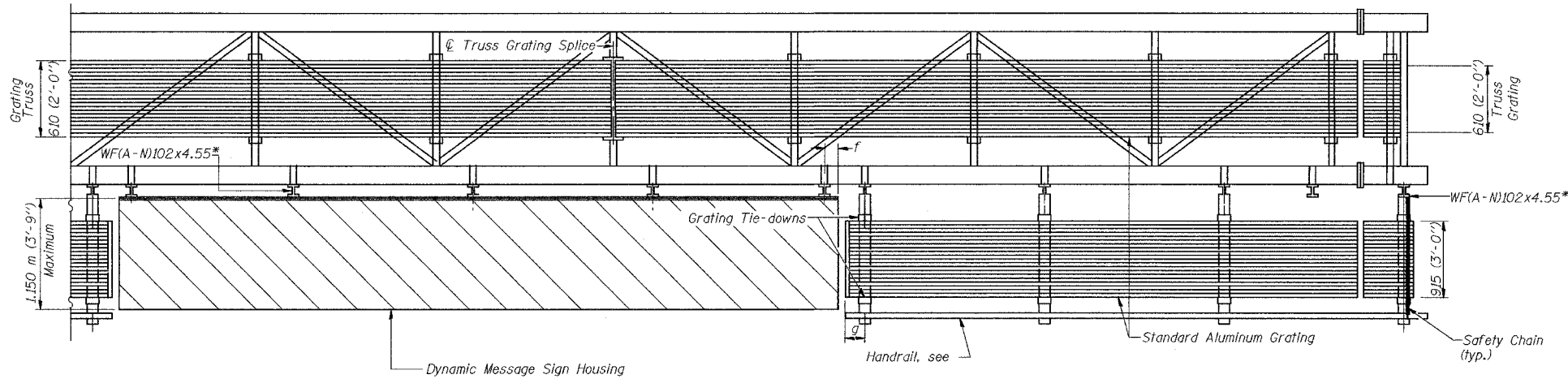
WFA-N)4x3.06 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
2.4m (8'-0")	2.4m (8'-0")	2
4.3m (14'-0")	4.3m (14'-0")	3
6.0m (20'-0")	6.0m (20'-0")	4
7.9m (26'-0")	7.9m (26'-0")	5
	9.8m (32'-0")	6

Walkway and Truss Grating width dimensions are nominal and may vary ±13 (1/2") based on available standard widths.



TYPICAL FRONT ELEVATION
With handrail omitted for clarity.
For Section B-B, see Base Sheet 05-A-10.

Bracket and grating dimensions are nominal and will vary based on actual DMS cabinet dimensions plus manufacturer's mounting devices.



SECTION A-A

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 and handrail splices placed as needed.

Truss grating to facilitate inspection shall run full length (center to center of support frames) ±305 (12") on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".

Notes: *Space walkway brackets WFA-N)102x4.55 and sign brackets WFA-N)102x4.55 for efficiency and within limits shown:

- f = 305 (12") maximum, 103 (4") minimum (End of sign to center of nearest bracket)
- g = 305 (12") maximum, 103 (4") minimum (End of walkway grating to center of nearest support bracket)
- h = 1.83 m (6'-0") maximum center to center of sign and/or walkway support brackets, WFA-N)102x4.55

For Details T and W, Section B-B and Grating Splice Details, see Base Sheet 05-A-10-DMS.
For Handrail Splice Details, see Base Sheet 05-A-11.

Structure Number	Station	a	b	c	L _s	Walkway Grating and Handrail Lengths
ISO161080L163.5	7+948.045	3.550 m	5.555 m	6.225 m	7.950 m	11.780 m

DESIGNED	19
CHECKED	EXAMINED
DRAWN	PASSED
CHECKED	

ENGINEER OF STRUCTURAL SERVICES
ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
**OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS**

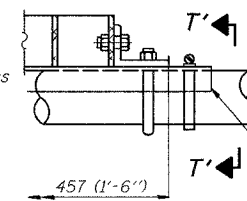
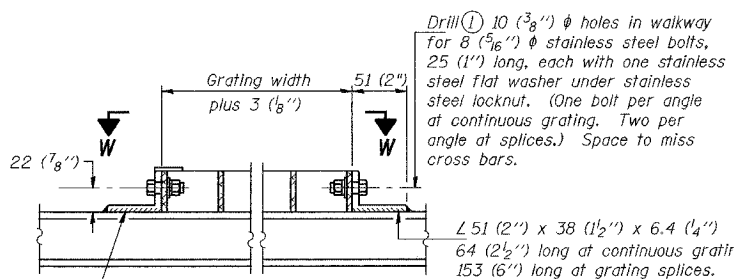
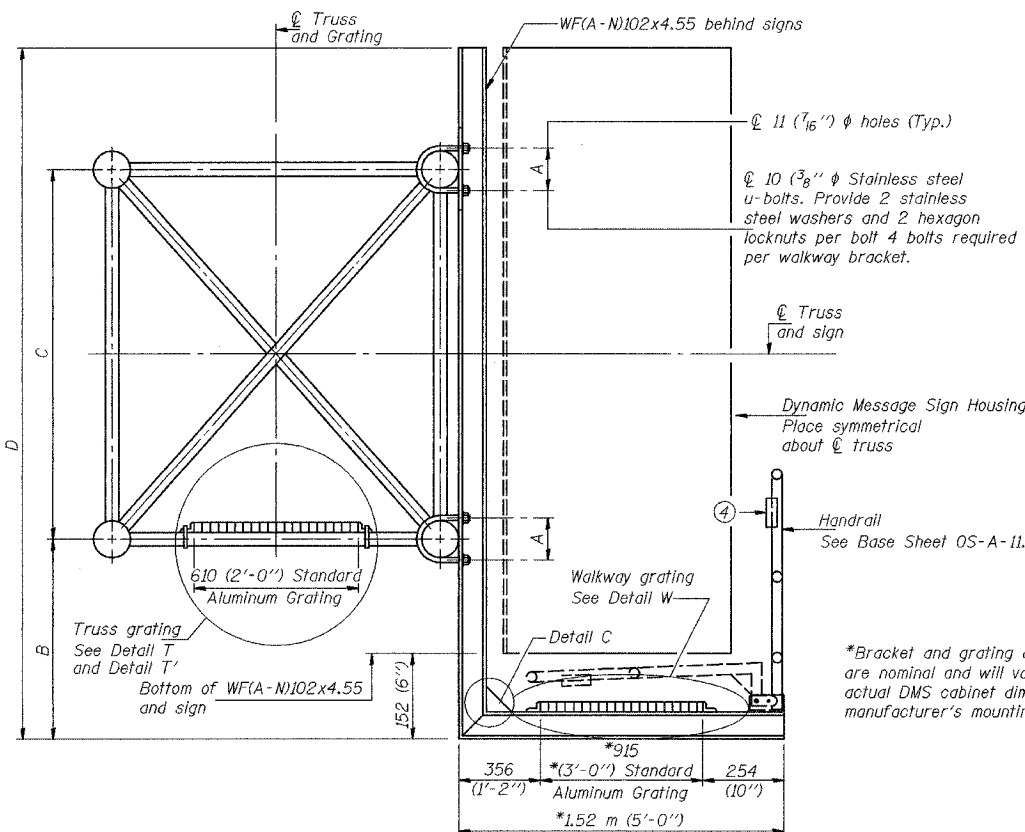
SCALE NONE
DATE 07/05
DRAWN BY
CHECKED BY



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

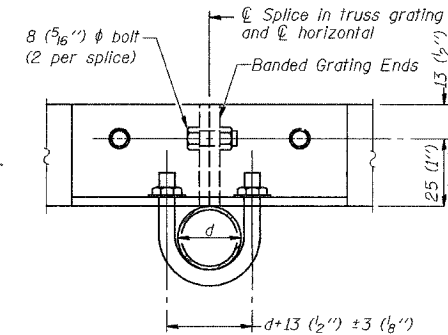
ALL DIMENSIONS IN MILLIMETERS EXCEPT
PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	385
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			

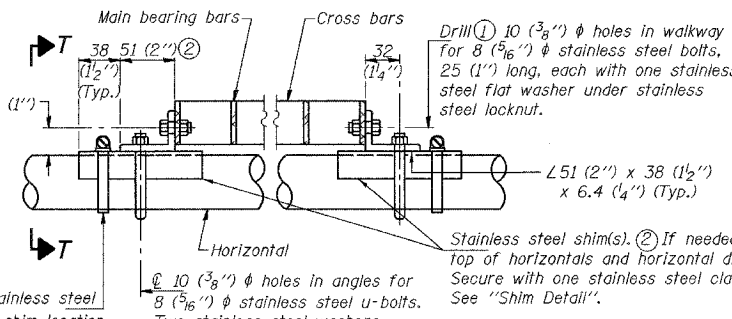


DETAIL T'

(Truss grating splice)
Details not shown same as Detail T.
Alternate materials may be used subject to the Engineer's review and approval.

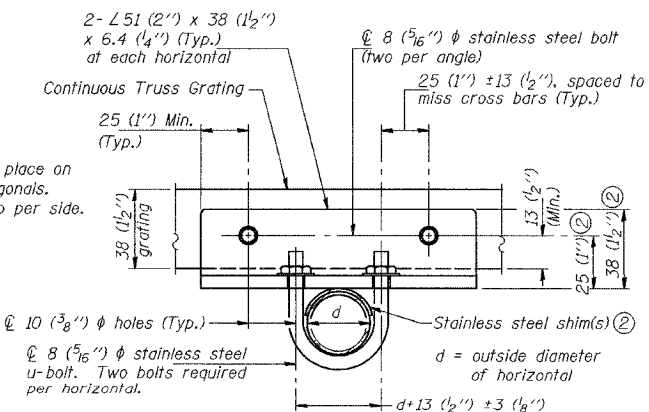


SECTION T'-T'

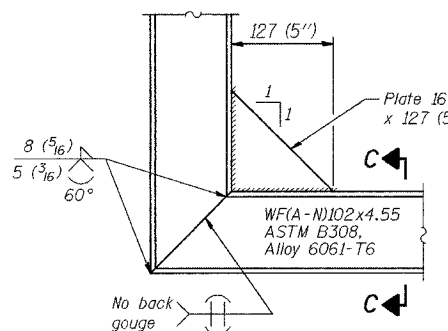
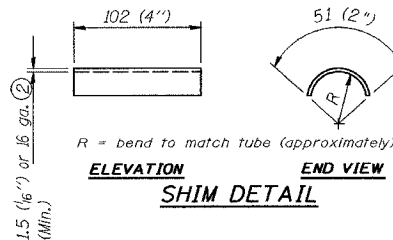


DETAIL T

(Continuous Truss grating)

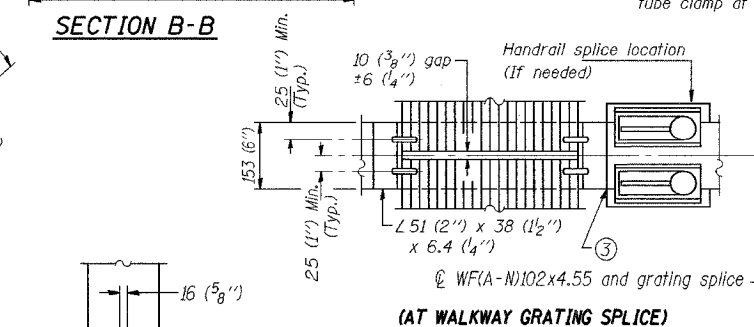


SECTION T-T



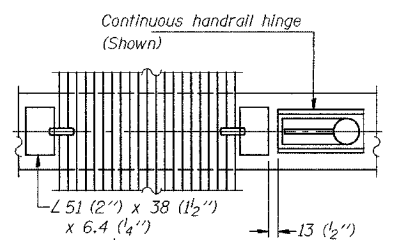
DETAIL C

(See Detail P, Base Sheet OS-A-11.)



SECTION B-B

SECTION C-C



SECTION W-W

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 5 (3/8 inch) x 38 (1 1/2 inch) on 30 (1 3/8 inch) centers and conform to ASTM B211 Alloy 6061-T6.
Cross bars shall be 5 (3/8 inch) x 38 (1 1/2 inch) on 102 (4 inch) centers and conform to ASTM B211 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "H" sections for main bearing bars shall meet the following requirements:
Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 1.16x10³ (0.0705 in.) per bar, a depth of 38 (1 1/2 inch), spaced on 30 (1 3/8 inch) centers.
Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 102 (4 inch) centers.

Structure Number	Station	A	B	C	D
ISO161080L163.5	7+948.045	191	0.508 m	2.13 m	2.791 m

DESIGNED	19
CHECKED	EXAMINED
DRAWN	PASSED
CHECKED	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

REVISIONS	
NAME	DATE

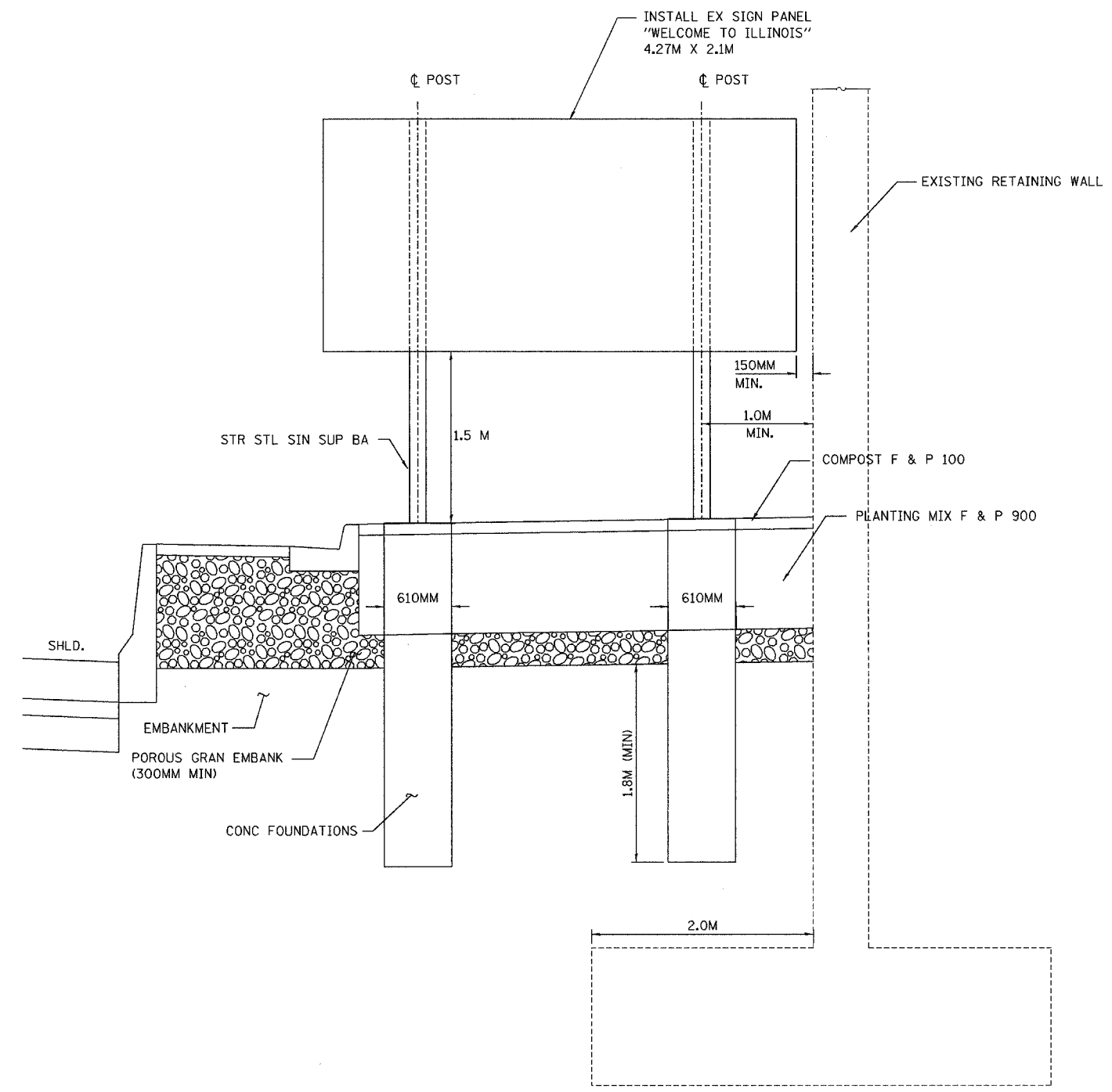
ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
**OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS**

SCALE NONE
DATE 07/05
DRAWN BY
CHECKED BY

AMERICAN
CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	388
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



NOTES:

1. CONTRACTOR TO COORDINATE WITH CONNIE SHANAHAN (847) 705-4501 FOR INSTALLATION OF EXISTING "WELCOME TO ILLINOIS" SIGN.
2. EMBANKMENT MATERIAL BEHIND RETAINING WALL MAY BE GRANULAR EMBANKMENT. THE CONTRACTOR SHALL VERIFY FOUNDATION NEEDS BEFORE INSTALLATION.
3. SEE BREAK-AWAY WIDE FLANGE STEEL SIGN POST DETAILS FOR FOUNDATION AND POST REQUIREMENTS.
4. SEE HIGHWAY STANDARD 720021 FOR SIGN PANEL MOUNTING DETAILS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 I-80/94/US 6
 KINGERY-BORMAN EXPRESSWAY
 BURNHAM ROAD TO US 41

**WELCOME TO ILLINOIS
 BREAKAWAY SIGN POST DETAILS**

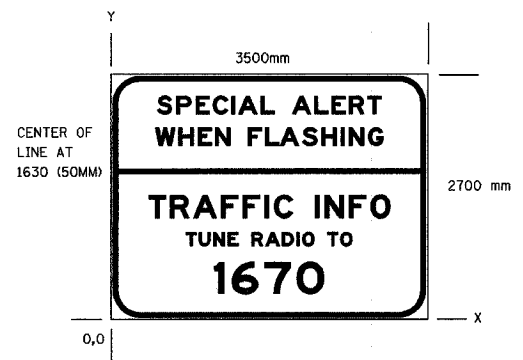
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 DATE 07/05 CHECKED BY TAE

AMERICAN
 CONSULTING ENGINEERS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	389
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

SIGN DETAIL

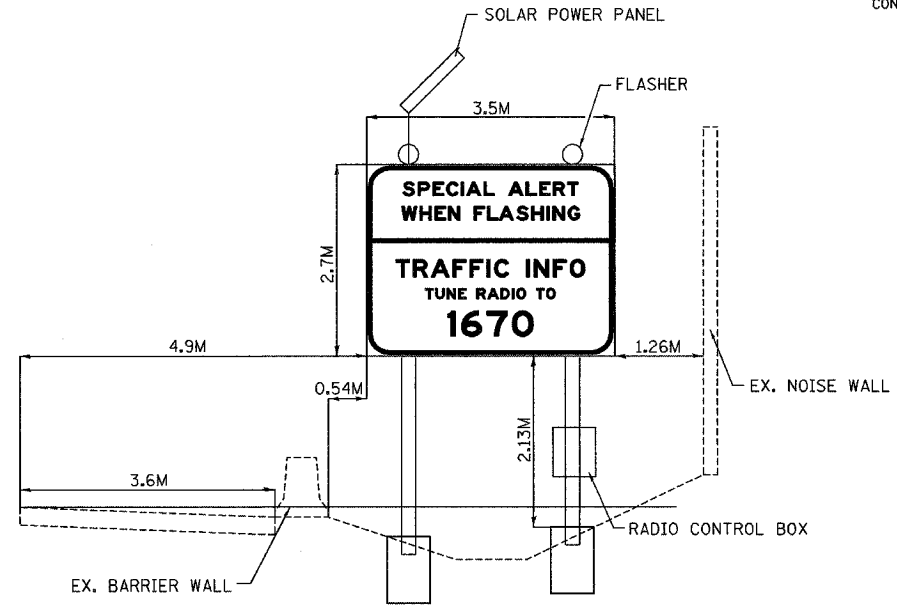


SIGN NUMBER	IL80-53BS
WIDTH X HEIGHT	3500 X 2700
BORDER WIDTH	50
CORNER RADIUS	225
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE
	COLOR: YELLOW ABOVE HORIZ. LINE
	BLUE BELOW HORIZ. LINE
LEGEND/BORDER	TYPE: REFLECTIVE
	COLOR: BLACK ABOVE HORIZ. LINE
	WHITE BELOW HORIZ. LINE

SYMBOL	X	Y	WID	HT

DIMENSIONS IN mm COORDINATES ARE TO LOWER LEFT CORNER

Y FONT	LETTER POSITIONS (X)													HT LEN									
2260	S	P	E	C	I	A	L	A	L	E	R	T											200
E	513	727	941	1133	1336	1419	1658	2007	2252	2443	2634	2838											2474
1915	W	H	E	N	F	L	A	S	H	I	N	G											200
E	497	752	966	1157	1519	1710	1873	2118	2332	2546	2633	2847											2512
1121	T	R	A	F	F	I	C	I	N	F	O											250	
E	421	660	615	1221	1460	1699	1808	2260	2369	2636	2875											2664	
815	T	U	N	E	R	A	D	I	O	T	O											150	
E	833	976	1137	1297	1559	1712	1896	2056	2123	2398	2542											1835	
279	I	6	7	O																		350	
E	1146	1342	1701	2059																		1208	



NOTE:
SIGN MAINTAINED BY ILLINOIS.

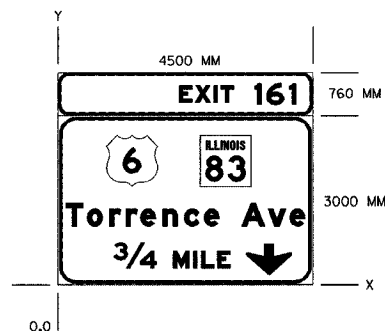
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
SIGN PANEL MOUNTING DETAILS

SCALE DATE 07/05 DRAWN BY ACE/CAD CHECKED BY TAE



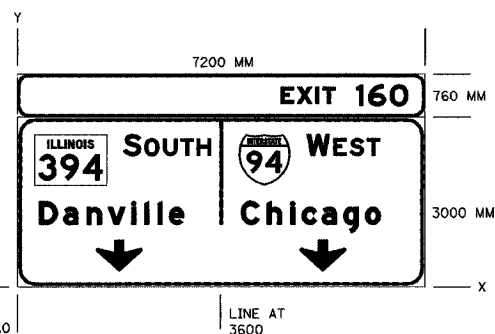
SIGN DETAIL



SIGN NUMBER	IL80-090H
WIDTH x HEIGHT	4500 X 3760
BORDER WIDTH	50
CORNER RADIUS	230
MOUNTING	OVERHEAD
BACKGROUND	TYPE: REFLECTIVE
	COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE
	COLOR: WHITE

SYMBOL	X	Y	WID	HT
SRMB-3	858	1745	900	900
M1-4	2510	1745	900	900
AR, DOWN	3327	176	799	548

Y FONT	LETTER POSITIONS (X)											HT LEN	
3230 EM	E	X	I	T		1	6	1				375	
	2141	2427	2753	2876		3475	3686	4087				300	
1045 EM	T	O	R	R	E	N	C	E		A	V	E	400
	144	520	911	1204	1463	1849	2235	2587		3246	3716	4099	300
300 EM	3/4		M	I	L	E							450
	987		2036	2395	2533	2819							300
													2056



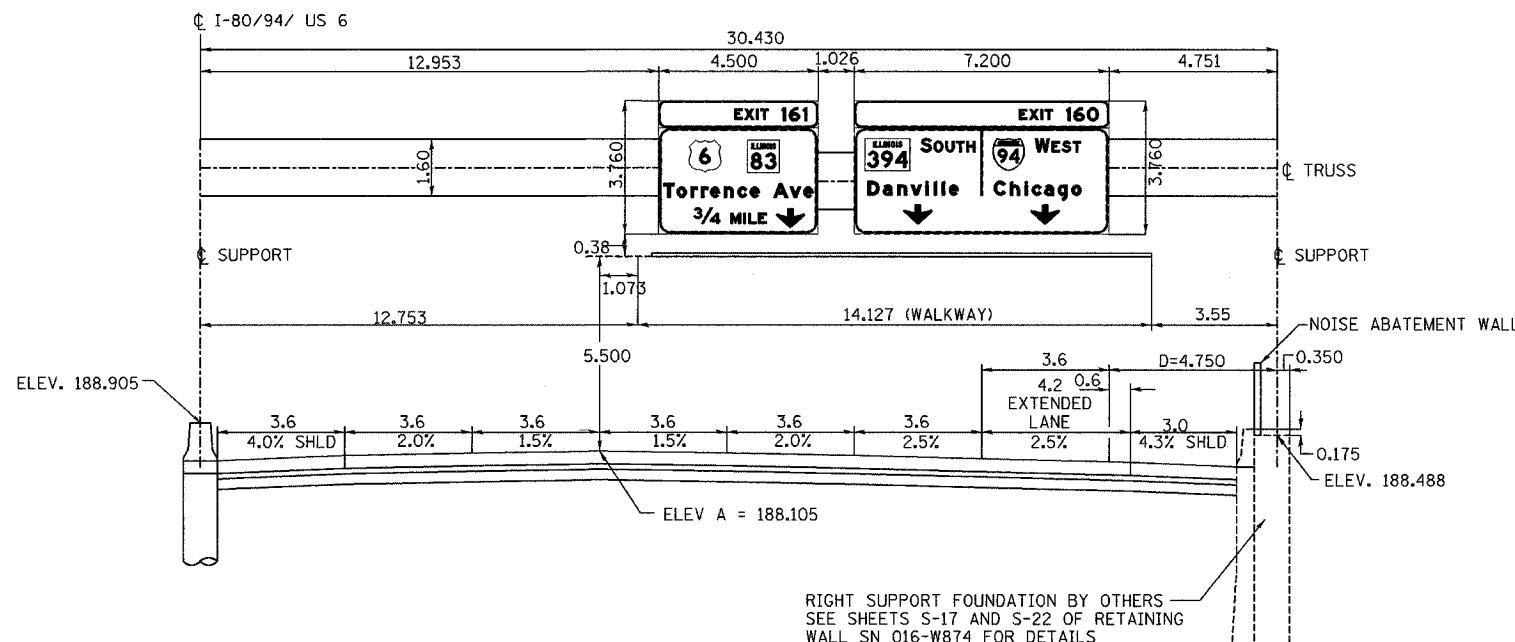
SIGN NUMBER	IL80-100H
WIDTH x HEIGHT	7200 X 3760
BORDER WIDTH	50
CORNER RADIUS	230
MOUNTING	OVERHEAD
BACKGROUND	TYPE: REFLECTIVE
	COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE
	COLOR: WHITE

SYMBOL	X	Y	WID	HT
M1-4	300	1796	1275	900
M1-1	3925	1796	900	900
AR, DOWN	1400	280	815	560
AR, DOWN	5000	280	815	560

Y FONT	LETTER POSITIONS (X)											HT LEN
3230 EM	E	X	I	T		1	6	0				375
	4656	4943	5268	5391		5991	6202	6586				300
2321 EM	S	O	U	T	H							375
	1876	2253	2581	2887	3173							300
2321 EM	W	E	S	T								375
	5113	5583	5870	6176								300
1106 EM	D	a	n	v	i	l	i	e				400
	385	815	1228	1602	2016	2250	2482	2684				300
1106 EM	C	h	i	c	a	g	o					400
	3954	4410	4824	5027	5380	5762	6147					300
												2461

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	390
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



1S016I080L162.9
MOUNTING DETAIL
PROPOSED OVERHEAD SIGN STRUCTURE
STA 6+951.478 Q I-80/94/US 6
LOOKING WEST

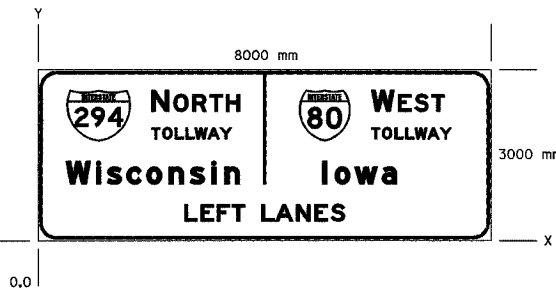
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
SIGN PANEL MOUNTING DETAILS

SCALE NTS
DATE 07/05
DRAWN BY ACE/CAD
CHECKED BY TAE



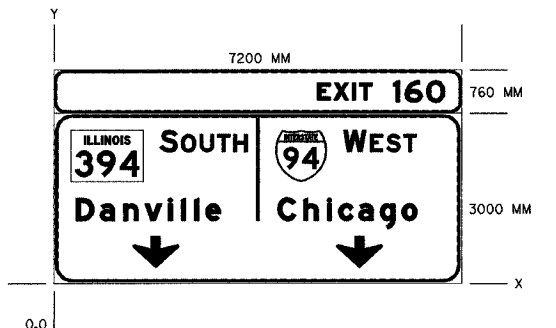
SIGN DETAIL



SIGN NUMBER	IL80-310H
WIDTH x HEIGHT	8000 X 3000
BORDER WIDTH	50
CORNER RADIUS	230
MOUNTING	
BACKGROUND	TYPE: REFLECTIVE COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: WHITE

SYMBOL	X	Y	WID	HT
M1 1	500	1745	1125	900
M1 1	4644	1745	900	900

Y FONT	LETTER POSITIONS (X)															HT LEN	
2270	N	O	R	T	H												375
EM	1983	2378	2707	3013	3299												300
2270	W	E	S	T													375
EM	5919	6393	6679	6985													300
1785	T	O	L	L	W	A	Y										200
EM	1985	2178	2399	2591	2755	2983	3201										1412
1785	T	O	L	L	W	A	Y										200
EM	5919	6112	6333	6525	6689	6917	7135										1412
995	W	I	S	C	O	N	S	I	N								400
EM	475	1006	1199	1545	1898	2291	2664	3044	3279								300
995	I	O	W	A													400
EM	5053	5274	5623	6107													300
345	L	E	F	T	L	A	N	E	S								300
EM	2588	2874	3161	3426	3950	4194	4562	4883	5170								2825



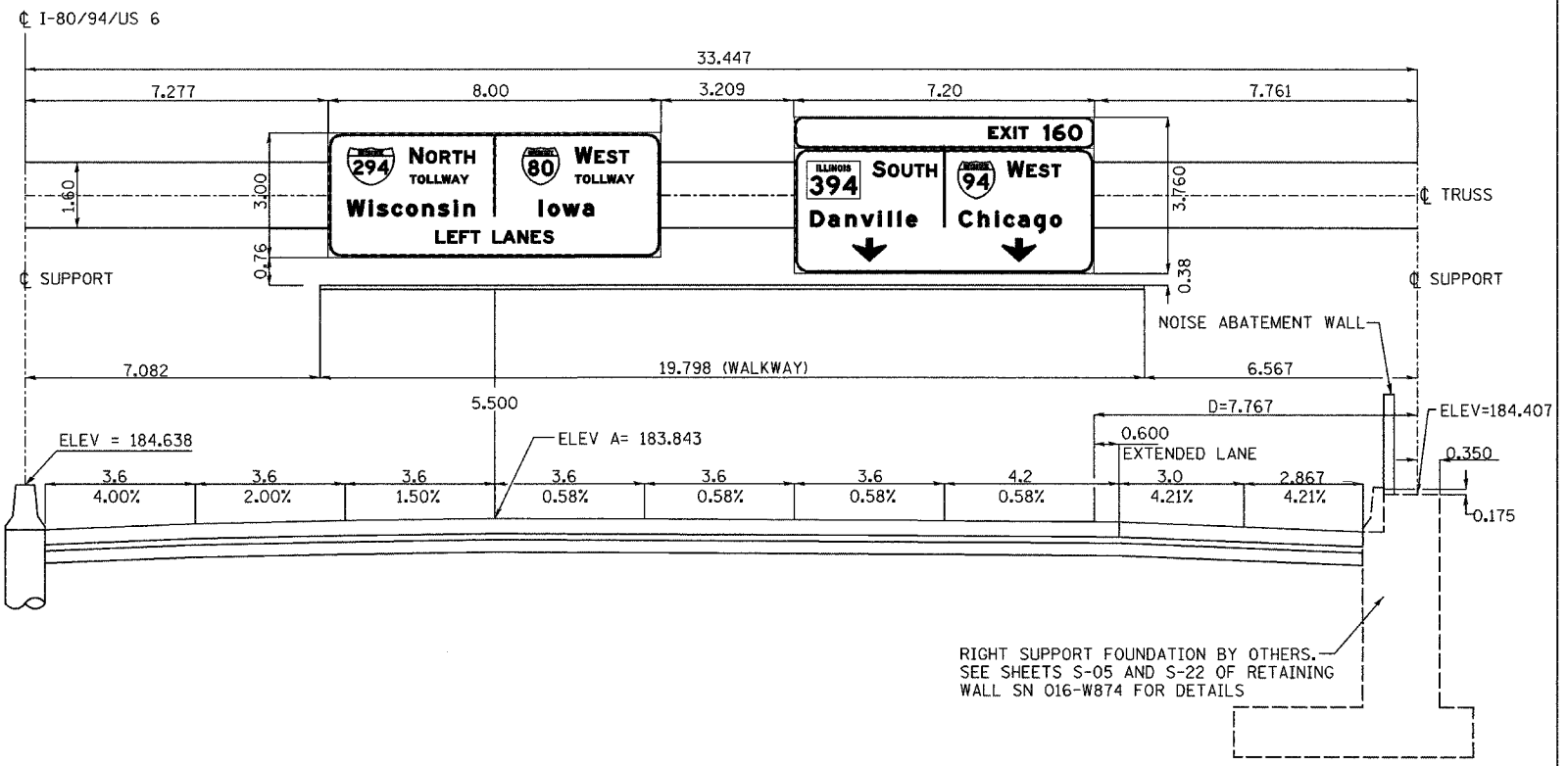
SIGN NUMBER	IL80-320H
WIDTH x HEIGHT	7200 X 3760
BORDER WIDTH	50
CORNER RADIUS	230
MOUNTING	
BACKGROUND	TYPE: REFLECTIVE COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: WHITE

SYMBOL	X	Y	WID	HT
AR, DOWN	1400	280	815	560
AR, DOWN	5000	280	815	560
M1 5	300	1796	1275	900
M1 1	3916	1796	900	900

Y FONT	LETTER POSITIONS (X)															HT LEN	
3230	E	X	I	T		1	6	O									375
EM	4656	4943	5268	5391		5991	6202	6586									300
2321	S	O	U	T	H												2244
EM	1876	2253	2581	2887	3173												375
2321	W	E	S	T													300
EM	5113	5583	5870	6176													1286
1106	D	a	n	v	i	l	i	e									400
EM	385	815	1228	1602	2016	2250	2482	2684									300
1106	C	h	i	c	a	g	o										2558
EM	3954	4410	4824	5027	5380	5762	6147										400
																	300
																	2461

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	392
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



RIGHT SUPPORT FOUNDATION BY OTHERS. SEE SHEETS S-05 AND S-22 OF RETAINING WALL SN 016-W874 FOR DETAILS

1S016I080L163.1
MOUNTING DETAIL
PROPOSED OVERHEAD SIGN STRUCTURE
STA 7+312.695 @ I-80/94/US 6
LOOKING WEST

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
SIGN PANEL MOUNTING DETAILS

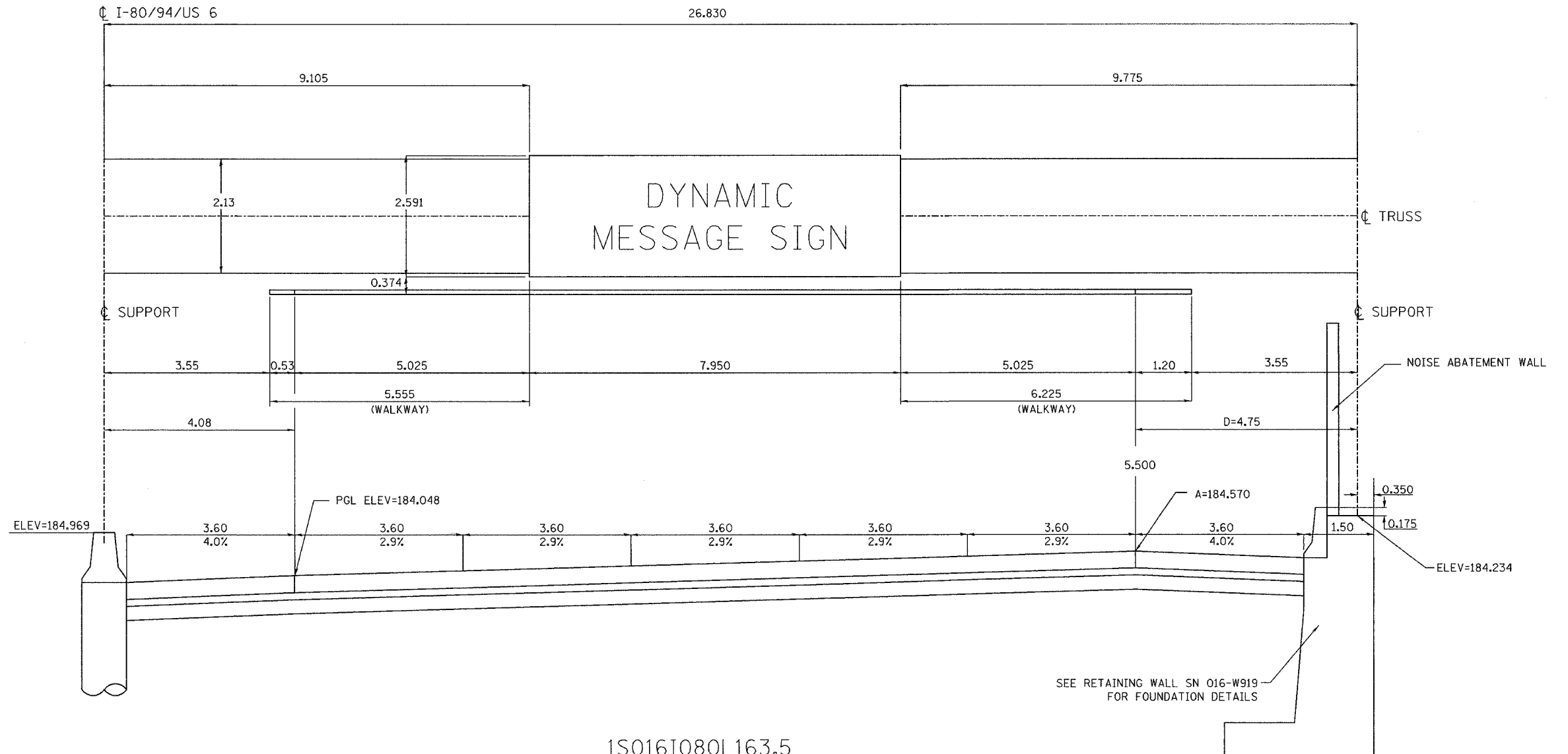
SCALE NTS
DATE 07/05

DRAWN BY ACE/CAD
CHECKED BY TAE

AMERICAN
CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAVEMENT ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	393
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



1S016I080L163.5
MOUNTING DETAIL
PROPOSED OVERHEAD SIGN STRUCTURE
STA 7+948.045 ϕ I-80/94/US 6
LOOKING WEST

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41

**DYNAMIC MESSAGE SIGN
MOUNTING DETAILS**

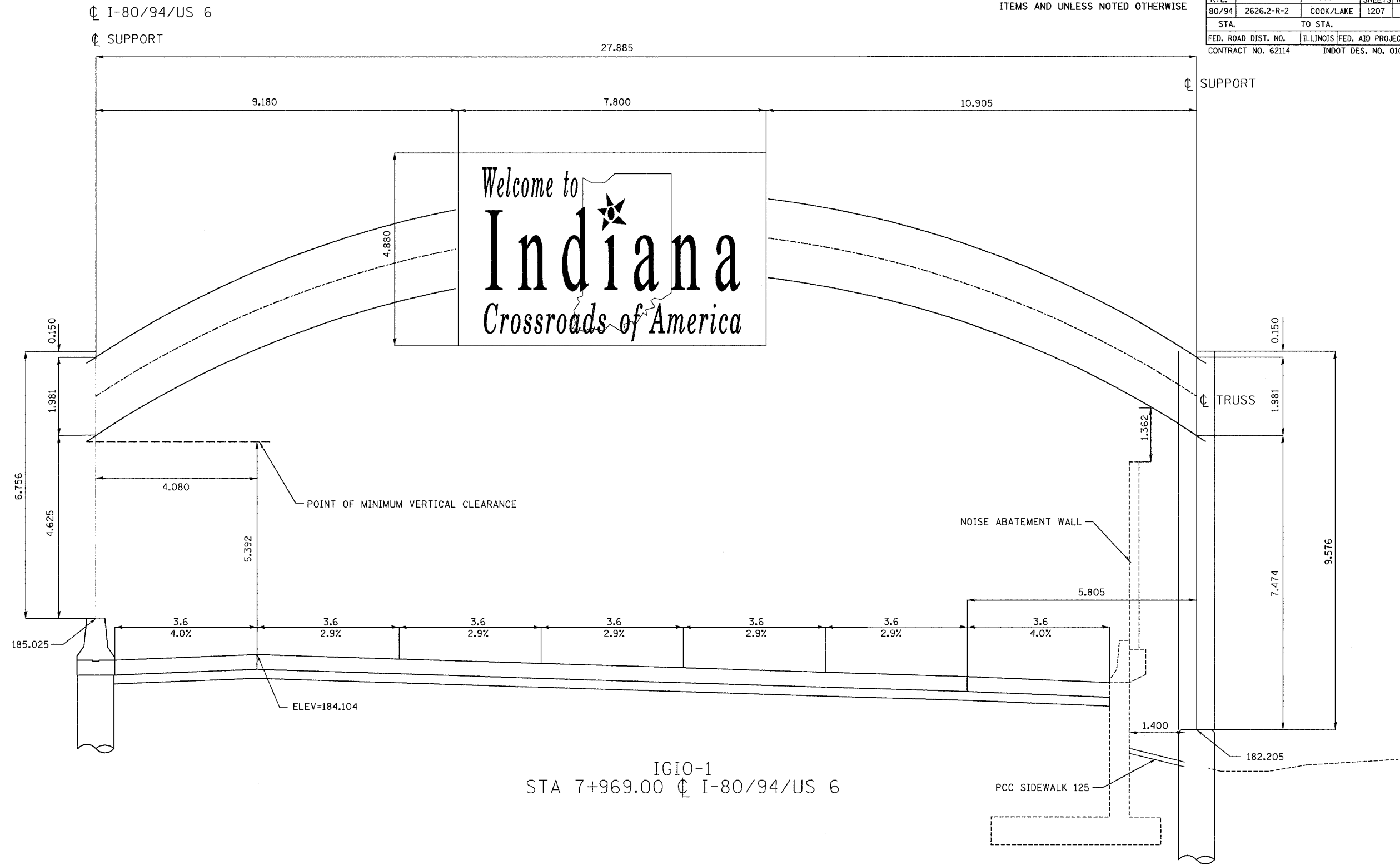
SCALE NTS
DATE 07/05

DRAWN BY ACE/CAD
CHECKED BY TAE

AMERICAN
CONSULTING ENGINEERS

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	394
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



IGIO-1
STA 7+969.00 ϕ I-80/94/US 6

Bill of Materials

ITEM	UNIT	QUANTITY
Concrete Sign Foundation (Indiana)	m ³	
Reinforcing Steel, Sign Foundation (Indiana)	kg	
Overhead Sign Structure, Box Truss, Special (Indiana)	m	27.885
Sign Panel, with Legend (Indiana)	m ²	38.1

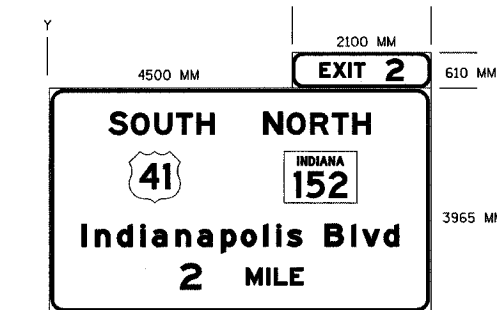
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
**INDIANA SIGN STRUCTURE
DETAILS**

SCALE NTS
DATE 07/05
DRAWN BY ACE/CAD
CHECKED BY TAE



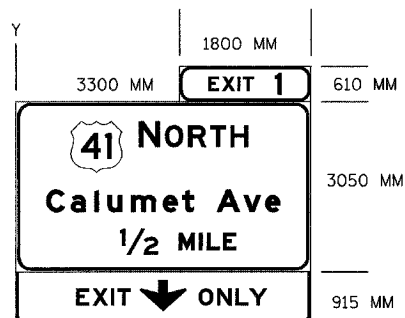
SIGN DETAIL



SIGN NUMBER	IDGO-01A
WIDTH x HEIGHT	6600 X 4575
BORDER WIDTH	50
CORNER RADIUS	230
MOUNTING	
BACKGROUND	TYPE: REFLECTIVE
	COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE
	COLOR: WHITE

SYMBOL	X	Y	WID	HT
MI 4	1196	1871	900	900
SRMB 3	4312	1871	1125	900

Y	LETTER POSITIONS (X)													HT				
FONT	E	X	I	T	2									LEN				
4145														250				
EM	4815	5053	5325	5421	5981									375				
														1485				
3150	S	O	U	T	H									375				
EM	819	1194	1524	1831	2117									300				
														1475				
3150	N	O	R	T	H									375				
EM	4123	4514	4845	5151	5437									300				
														1475				
1168	I	n	d	I	a	n	a	p	o	i	i	s	B	l	v	d	400	
EM	511	755	1140	1553	1756	2171	2555	2969	3317	3711	3939	4132	4791	5259	5449	5831	300	
																		5580
418	2		M	I	L	E	S											450
EM	2308		2987	3345	3477	3763	4049											300
																		1610



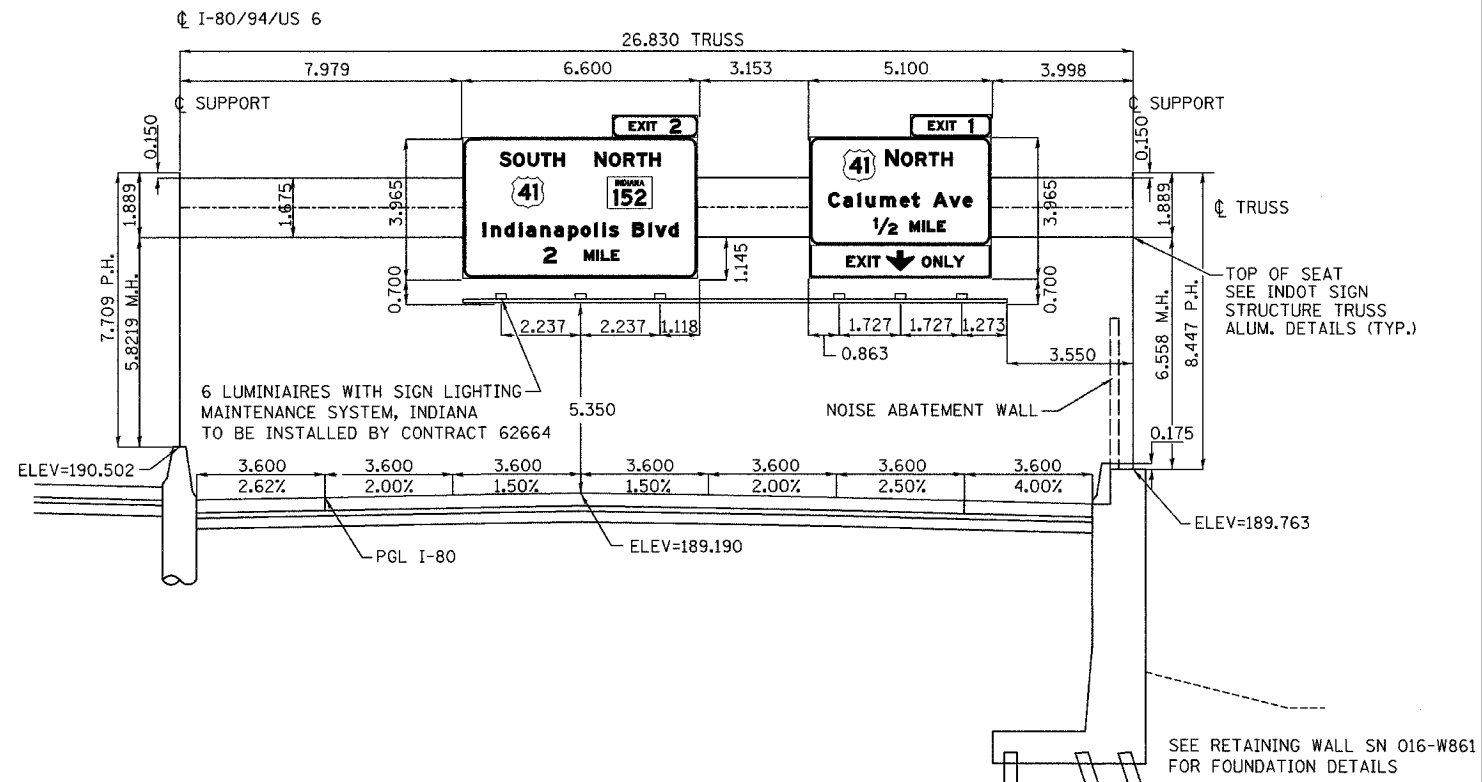
SIGN NUMBER	IDGO-01B
WIDTH x HEIGHT	5100 X 4575
BORDER WIDTH	50
CORNER RADIUS	230
MOUNTING	
BACKGROUND	TYPE: REFLECTIVE
	COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE
	COLOR: WHITE

SYMBOL	X	Y	WID	HT
MI 4	953	4173	900	900
AR, DOWN	2550	156	800	550

Y	LETTER POSITIONS (X)													HT
FONT	E	X	I	T	1									LEN
4145														250
EM	3560	3800	4070	4166	4726									375
														1280
3100	N	O	R	T	H									375
EM	2228	2619	2950	3256	3542									300
														1935
1950	C	a	l	u	m	e	t	A	v	e				400
EM	495	927	1341	1573	1989	2544	2889	3493	3963	4345				300
														4110
1205	1/2		M	I	L	E								450
EM	1717		2677	3035	3173	3459								300
														2033
300	E	X	I	T	O	N	L	Y						300
EM	950	1236	1562	1677	2950	3280	3602	3846						3596

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	395
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



IGDO-1
MOUNTING DETAIL
PROPOSED BOX TRUSS SIGN STRUCTURE
STA 8+264.972 ϕ I-80/94/US 6
LOOKING EAST

Bill of Materials

ITEM	UNIT	QUANTITY
Concrete Sign Foundation (Indiana)	m ³	
Reinforcing Steel, Sign Foundation (Indiana)	kg	
Overhead Sign Structure, Box Truss (Indiana)	m	26.830
Walkway, Handrail, and Lighting Support Assembly (Indiana)	m	
Sign Panel, with Legend (Indiana)	m ²	48.77

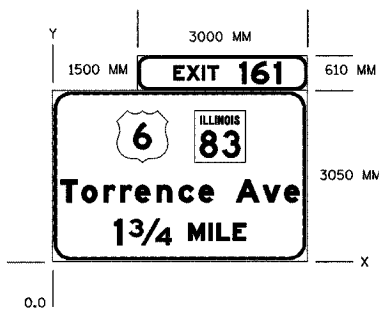
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
INDIANA SIGN STRUCTURE
DETAILS

SCALE NTS
DATE 07/05
DRAWN BY ACE/CAD
CHECKED BY TAE



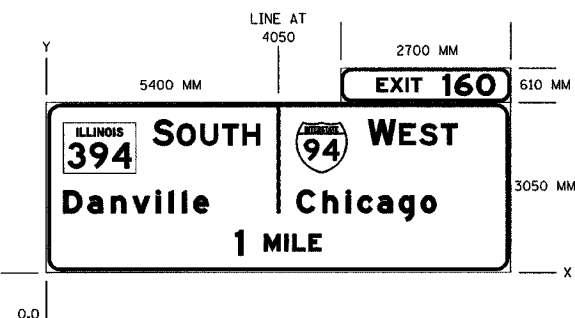
SIGN DETAIL



SIGN NUMBER	IGDO-02A
WIDTH x HEIGHT	4500 X 3660
BORDER WIDTH	50
CORNER RADIUS	230
MOUNTING	
BACKGROUND	TYPE: REFLECTIVE
	COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE
	COLOR: WHITE

SYMBOL	X	Y	WID	HT
M1 4	1140	1746	900	900
SRMB 2	2444	1746	900	900

Y	LETTER POSITIONS (X)											HT	
FONT												LEN	
3180	E	X	I	T		1	6	1				375	
EM	2404	2643	2914	3010		3572	3782	4184				250	
												1894	
1045	T	O	R	R	E	N	C	E		A	V	E	400
EM	143	518	910	1203	1461	1848	2233	2585		3245	3715	4097	300
													4214
300	1	3/4			M	I	L	E					450
EM	1274	1513			2437	2796	2926	3213					300
													2320



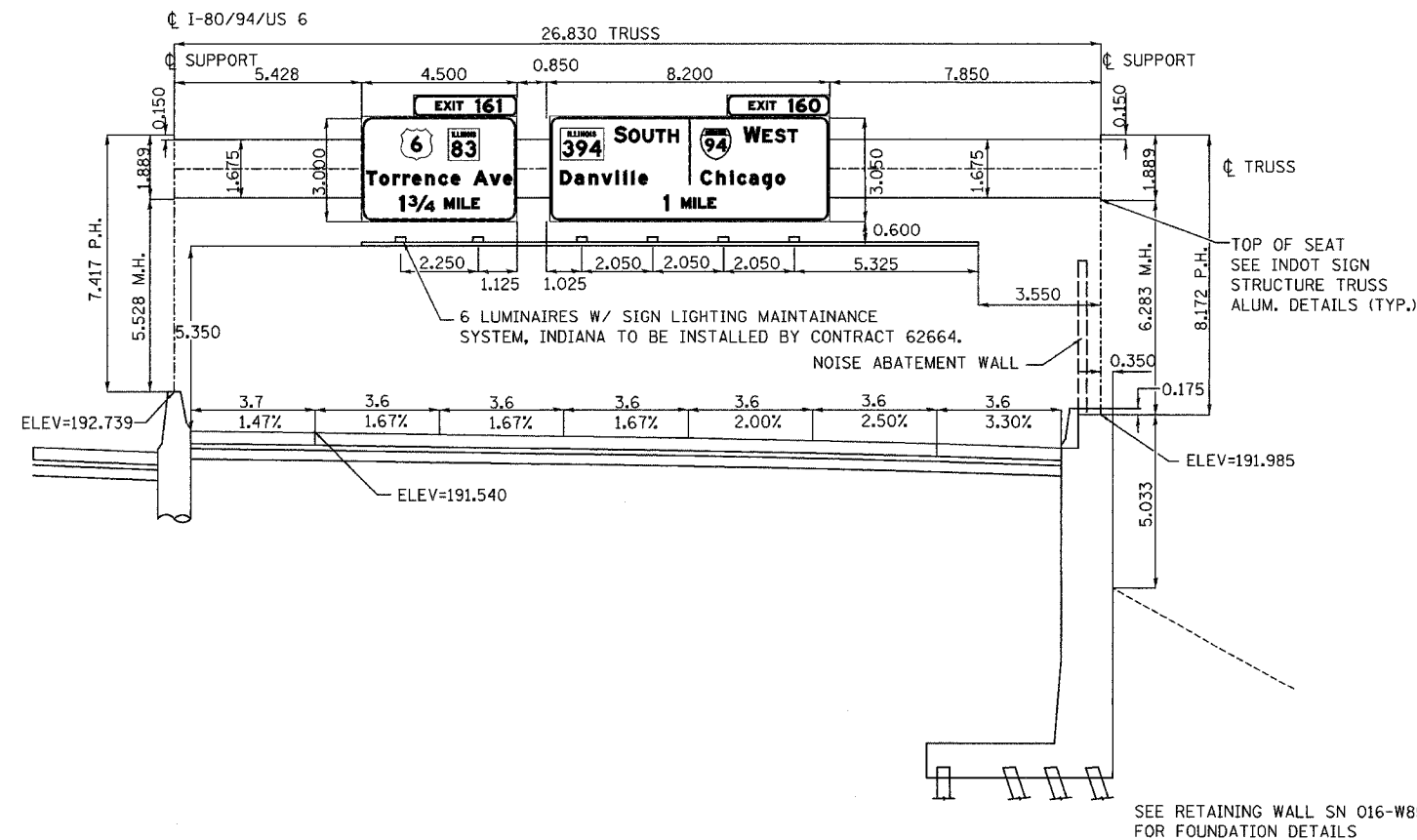
SIGN NUMBER	IGDO-02B
WIDTH x HEIGHT	8100 X 3660
BORDER WIDTH	50
CORNER RADIUS	300
MOUNTING	
BACKGROUND	TYPE: REFLECTIVE
	COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE
	COLOR: WHITE

SYMBOL	X	Y	WID	HT
SRMB 3	305	1750	1275	900
M1 1	4425	1750	900	900

Y	LETTER POSITIONS (X)											HT
FONT												LEN
3185	E	X	I	T		1	6	0				375
EM	5712	5951	6222	6318		6880	7090	7474				250
												2081
2245	S	O	U	T	H							450
EM	1956	2331	2661	2967	3253							375
												1892
2245	W	E	S	T								450
EM	5688	6158	6445	6751								375
												1570
1050	D	a	n	v	i	l	i	e				400
EM	305	734	1148	1522	1935	2170	2402	2603				300
												2558
1050	C	h	i	c	a	g	o					400
EM	4426	4883	5296	5499	5852	6234	6619					300
												2461
300	1		M	I	L	E						375
EM	3295		3783	4141	4271	4558						300
												1520

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	396
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



IGDO-2
MOUNTING DETAIL
PROPOSED BOX TRUSS SIGN STRUCTURE
STA 8+375.901 @ I-80/94/US 6
LOOKING WEST

Bill of Materials

ITEM	UNIT	QUANTITY
Concrete Sign Foundation (Indiana)	m ³	
Reinforcing Steel, Sign Foundation (Indiana)	kg	
Overhead Sign Structure, Box Truss (Indiana)	m	26.830
Walkway, Handrail, and Lighting Support Assembly (Indiana)	m	
Sign Panel, with Legend (Indiana)	m ²	41.91

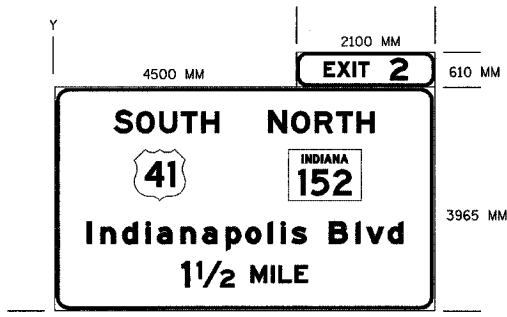
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
INDIANA SIGN STRUCTURE
DETAILS

SCALE NTS
DATE 07/05
DRAWN BY ACE/CAD
CHECKED BY TAE



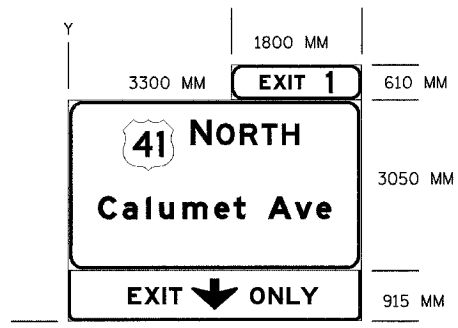
SIGN DETAIL



SIGN NUMBER	IGDO-03A
WIDTH x HEIGHT	6600 X 4575
BORDER WIDTH	50
CORNER RADIUS	230
MOUNTING	
BACKGROUND	TYPE: REFLECTIVE
	COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE
	COLOR: WHITE

SYMBOL	X	Y	WID	HT
M1 4	1196	1940	900	900
SRMB 3	4312	1940	1125	900

Y FONT	LETTER POSITIONS (X)															HT LEN	
4082 EM	E	X	I	T		2											250
	4814	5053	5324	5420		5982											375
																	1097
3087 EM	S	O	U	T	H												375
	1305	1680	2010	2317	2603												300
																	1469
3087 EM	N	O	R	T	H												375
	4163	4554	4885	5191	5477												300
																	1469
1205 EM	I	n	d	I	a	n	a	p	o	l	i	s	B	i	v	d	400
	671	915	1299	1712	1916	2331	2714	3129	3477	3871	4098	4291	4951	5419	5609	5990	300
																	5580
539 EM	1	1/2		M	I	L	E										450
	2508	2768		3727	4087	4217	4503										300
																	1794



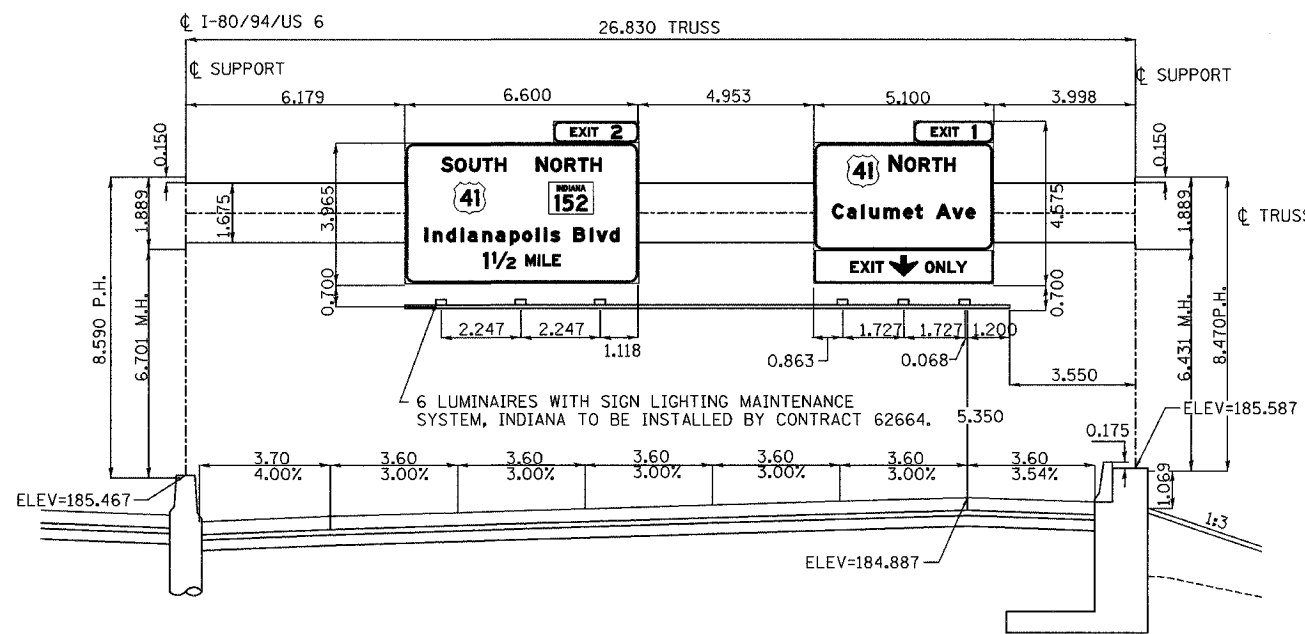
SIGN NUMBER	IGDO-03B
WIDTH x HEIGHT	5100 X 4575
BORDER WIDTH	50
CORNER RADIUS	230
MOUNTING	
BACKGROUND	TYPE: REFLECTIVE
	COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE
	COLOR: WHITE

SYMBOL	X	Y	WID	HT
M1 4	966	2272	900	900
AR, DOWN	2018	156	800	550

Y FONT	LETTER POSITIONS (X)															HT LEN	
4080 EM	E	X	I	T		1											250
	3560	3798	4070	4166		4727											375
																	905
2798 EM	N	O	R	T	H												375
	2206	2597	2928	3234	3520												300
																	1166
1423 EM	C	a	l	u	m	e	+	A	v	e							400
	495	927	1341	1573	1969	2544	2889	3493	3963	4345							300
																	4110
285 EM	E	X	I	T		O	N	L	Y								300
	950	1236	1562	1677		2950	3280	3602	3846								2150

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	397
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



SEE RETAINING WALL SN 016-W861 FOR FOUNDATION DETAILS

IGDO-3
MOUNTING DETAIL
PROPOSED BOX TRUSS SIGN STRUCTURE
STA 8+933.145 ϕ I-80/94/US 6
LOOKING EAST

Bill of Materials

ITEM	UNIT	QUANTITY
Concrete Sign Foundation (Indiana)	m ³	
Reinforcing Steel, Sign Foundation (Indiana)	kg	
Overhead Sign Structure, Box Truss (Indiana)	m	26.830
Walkway, Handrail, and Lighting Support Assembly (Indiana)	m	
Sign Panel, with Legend (Indiana)	m ²	48.77

REVISIONS	
NAME	DATE

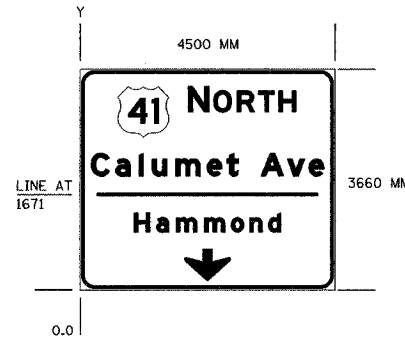
ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
**INDIANA SIGN STRUCTURE
DETAILS**

SCALE NTS
DATE 07/05

DRAWN BY ACE/CAD
CHECKED BY TAE

AMERICAN
CONSULTING ENGINEERS

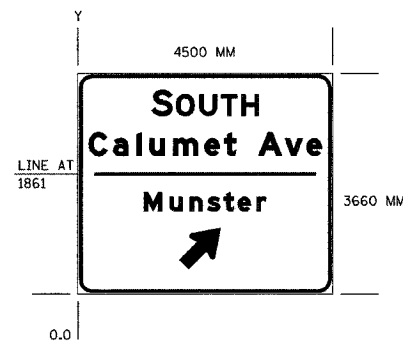
SIGN DETAIL



SIGN NUMBER	IGDO-04A
WIDTH x HEIGHT	4500 X 3660
BORDER WIDTH	50
CORNER RADIUS	230
MOUNTING	
BACKGROUND	TYPE: REFLECTIVE COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: WHITE

SYMBOL	X	Y	WID	HT
M1 4	667	2556	900	900
AR, DOWN	1850	103	800	550

Y FONT	LETTER POSITIONS (X)											HT LEN
2681 EM	N	O	R	T	H							375
	1907	2360	2772	3155	3513							300
												1909
1558 EM	C	a	i	u	m	e	t	A	v	e		400
	196	628	1041	1273	1689	2244	2589	3193	3663	4046		300
												4110
952 EM	H	a	m	m	o	n	d					339
	956	1350	1700	2196	2668	2999	3326					250
												2589



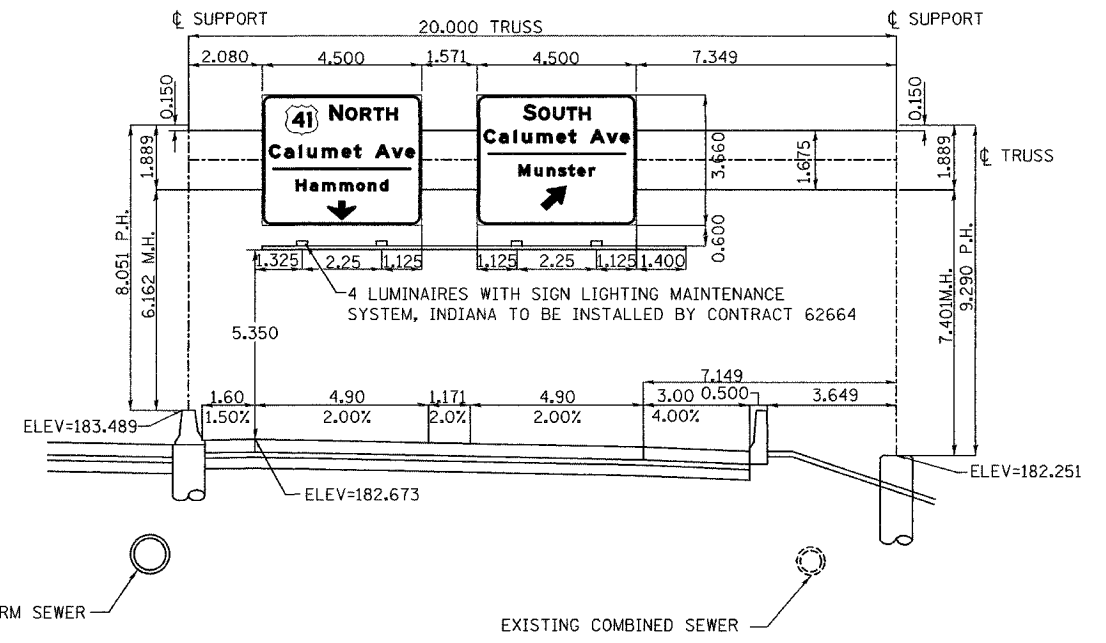
SIGN NUMBER	IGDO-04B
WIDTH x HEIGHT	4500 X 3900
BORDER WIDTH	50
CORNER RADIUS	230
MOUNTING	
BACKGROUND	TYPE: REFLECTIVE COLOR: GREEN
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: WHITE

SYMBOL	X	Y	WID	HT
AR, 45°	1893	302	672	672

Y FONT	LETTER POSITIONS (X)											HT LEN
3145 EM	S	O	U	T	H							375
	1304	1742	2152	2534	2893							300
												1892
2354 EM	C	a	i	u	m	e	t	A	v	e		400
	197	629	1041	1273	1689	2246	2589	3193	3663	4047		300
												4110
1152 EM	M	u	n	s	t	e	r					339
	1283	1740	2092	2409	2695	2947	3274					250
												2159

ALL DIMENSIONS IN METERS EXCEPT PAVEMENT ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	398
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



IGDO-4
MOUNTING DETAIL
PROPOSED BOX TRUSS SIGN STRUCTURE
STA 9+202.197 ϕ I-80/94/US 6
STA 30+254.620 RAMP I ϕ
LOOKING EAST

Bill of Materials

ITEM	UNIT	QUANTITY
Concrete Sign Foundation (Indiana)	m ³	
Reinforcing Steel, Sign Foundation (Indiana)	kg	
Overhead Sign Structure, Box Truss (Indiana)	m	20.000
Walkway, Handrail, and Lighting Support Assembly (Indiana)	m	
Sign Panel, with Legend (Indiana)	m ²	32.02

REVISIONS	
NAME	DATE

NOTE: 900MM DIA STORM SEWER (P163) SHALL BE INSTALLED NEAR SIGN FOUNDATION.

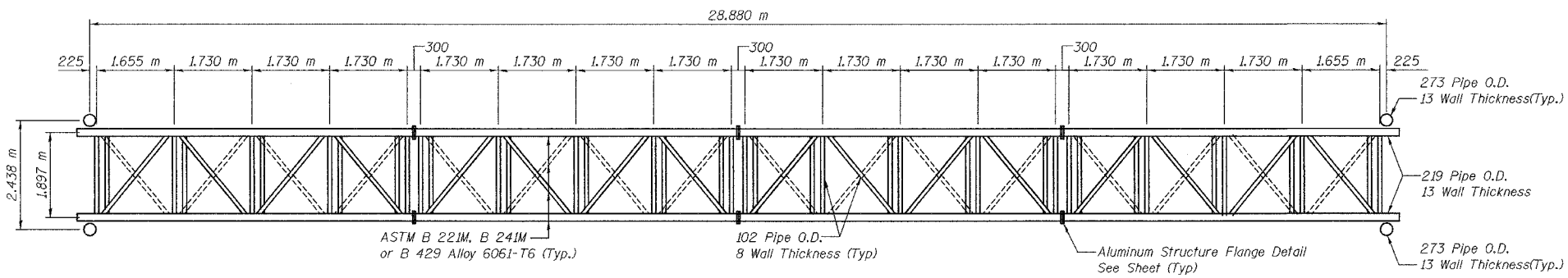
ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINGERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
INDIANA SIGN STRUCTURE
DETAILS

SCALE NTS
DATE 07/05
DRAWN BY ACE/CAD
CHECKED BY TAE

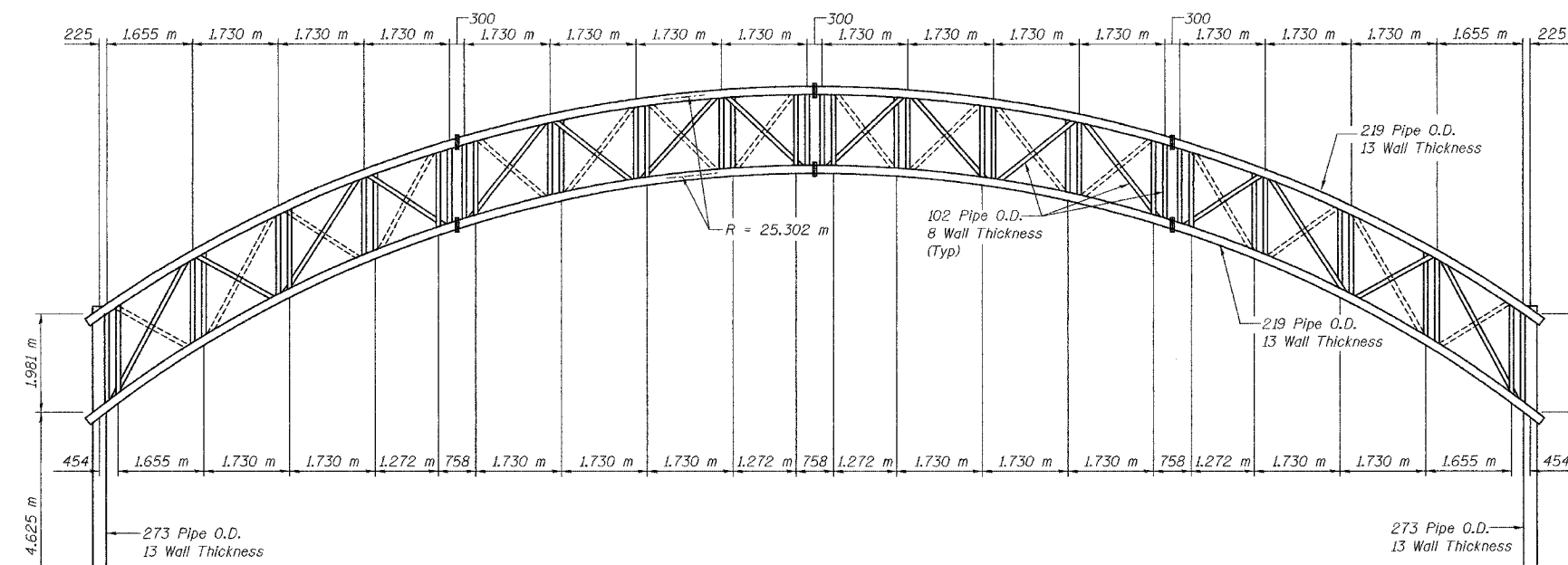


ROUTE NO.	SECTION	COUNTY	SHEET	TOTAL SHEETS
P.A.1	2823-2-2	LAKE COUNTY, INDIANA	1207	399

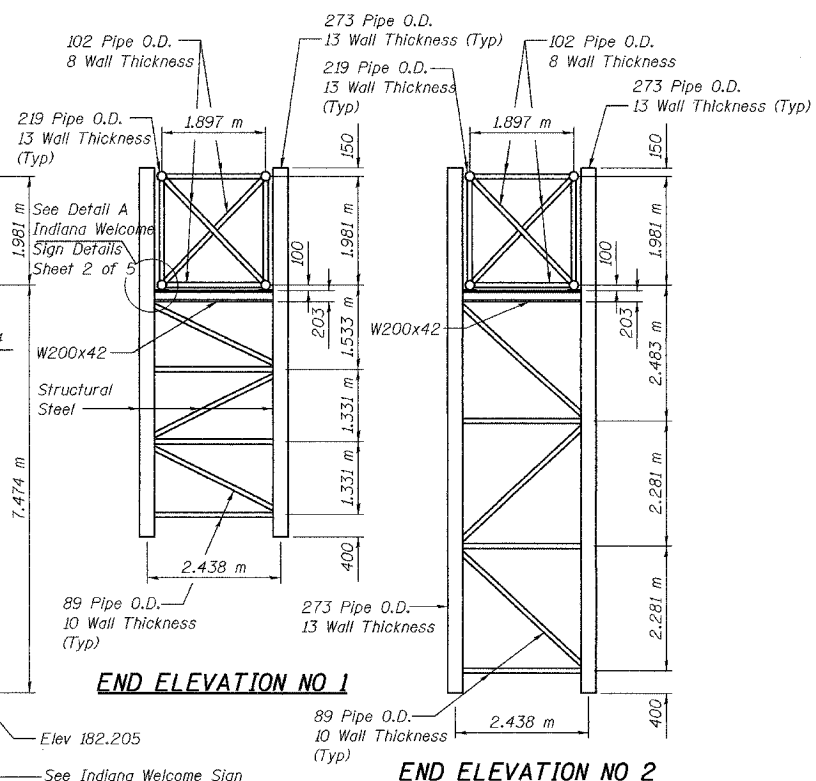
CONTRACT NO. 62114 INDOT DES. NO. 0100987



PLAN



ELEVATION
(Looking East)



END ELEVATION NO 1

END ELEVATION NO 2

See Indiana Welcome Sign Details - Sheet 4 of 5

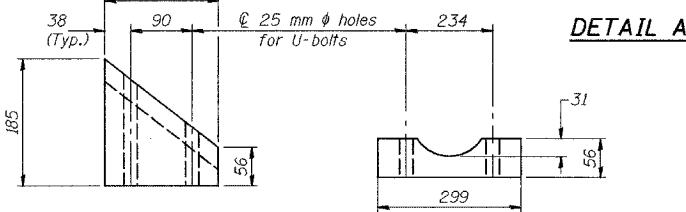
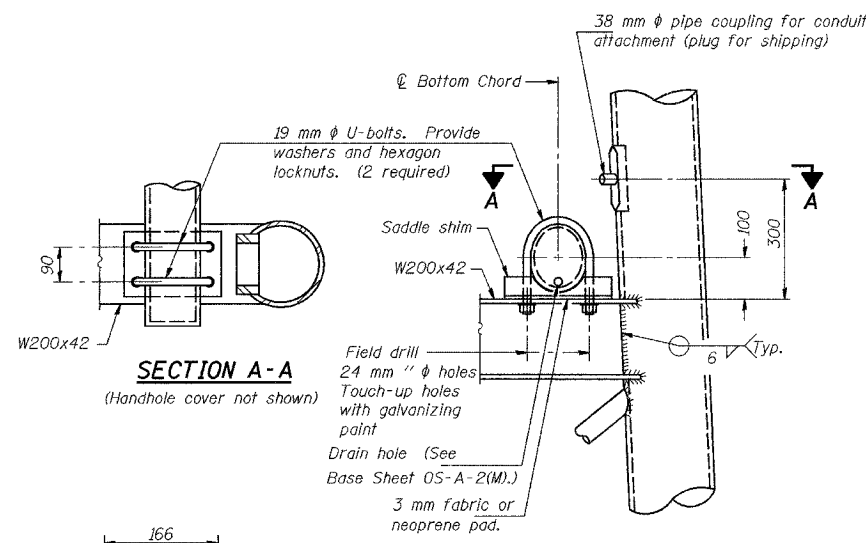
DESIGNED	BPS
CHECKED	KFA
DRAWN	MJB
CHECKED	GSP

ILLINOIS DEPARTMENT OF TRANSPORTATION
1-80/94/US 6
KINCERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41
INDIANA WELCOME SIGN DETAILS
SHEET 1 OF 5

SCALE NTS
DATE 07/05
DRAWN BY ACE/CAD
CHECKED BY
AMERICAN
CONSULTING ENGINEERS

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET
P.A.I.	2022-2-2	LAKE COUNTY, INDIANA	1207	400
BALANCE		PER. AID PROJECT		

CONTRACT NO. 62114 INDOT DES. NO. 0100987



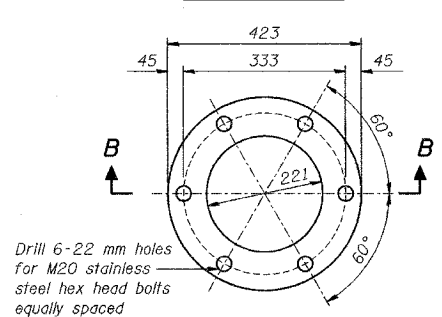
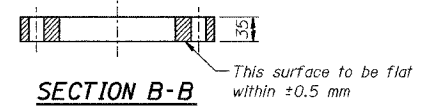
SADDLE SHIM DETAIL

ASTM B26M Alloy 356-F

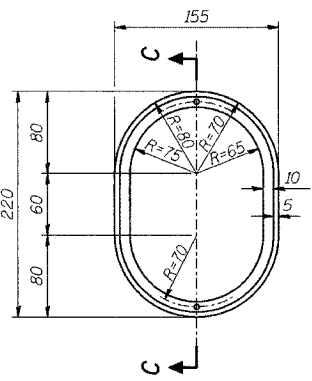
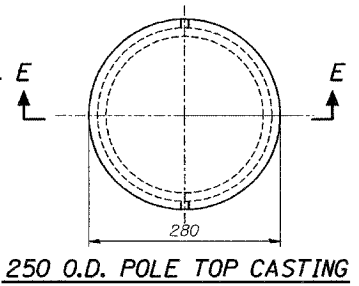
or

ASTM B209M Alloy 6061-T6S1

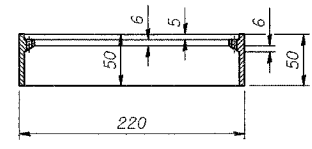
(4 required per sign truss)



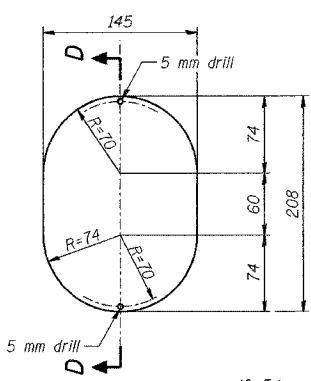
DESIGNED	BPS
CHECKED	KFA
DRAWN	MJB
CHECKED	GSP



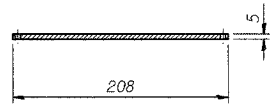
ELECTRICAL CONDULET



SECTION C-C



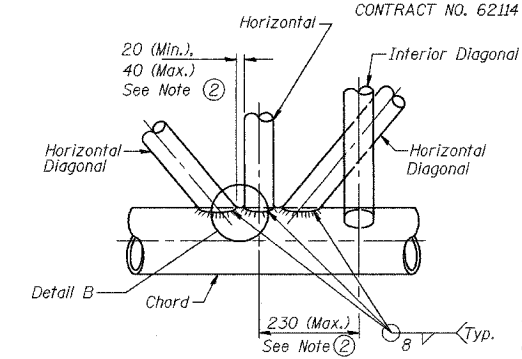
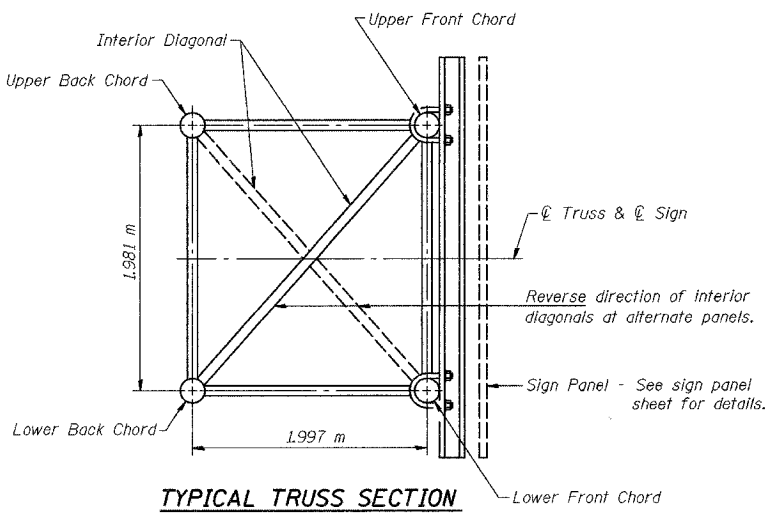
CONDULET COVER



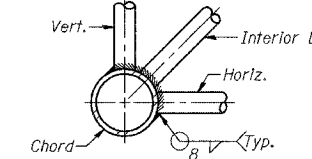
SECTION D-D

- Note:
1. Drill and tap (thru) two-3.3 mm holes with M4 threads.
 2. Two-Stainless Steel M4x12 long round-head phillips machine screws required

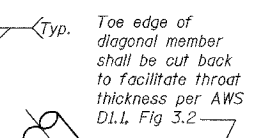
Note: Drill and tap holes 180° apart for M12 stainless steel set screws



TYPICAL JOINT

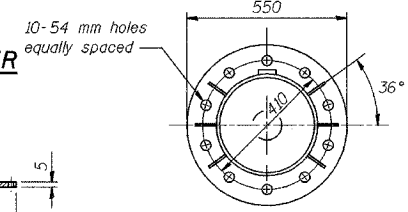


TYPICAL JOINT DETAILS

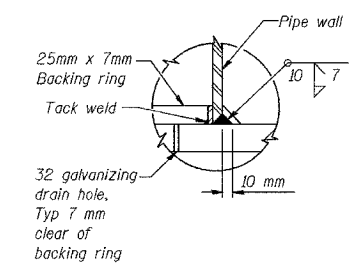


NOTES

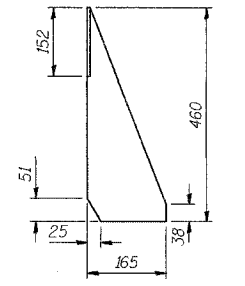
- ① Contractor may alternatively use standard aluminum drive-fit cap to close end. 13 mm ϕ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- ② All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a 20 mm minimum to 40 mm maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.
- ③ Anchor bolts are 51mm ϕ and 1.83m long.



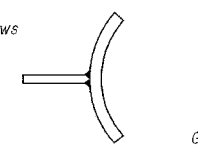
SINGLE POST TYPE BASE PLATE DETAIL



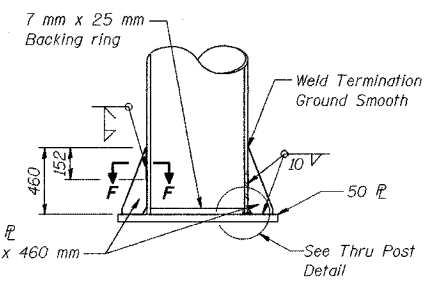
THRU POST BASE (NO COVER)



GUSSET DETAIL



SECTION F-F



COLUMN BASE ELEVATION

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-80/94/US 6
KINCERY-BORMAN EXPRESSWAY
BURNHAM ROAD TO US 41

INDIANA WELCOME SIGN DETAILS
SHEET 2 OF 5

SCALE NTS
DATE 07/05

DRAWN BY ACE/CAD
CHECKED BY

AMERICAN
CONSULTING ENGINEERS