

**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.

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 AASHTO 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.

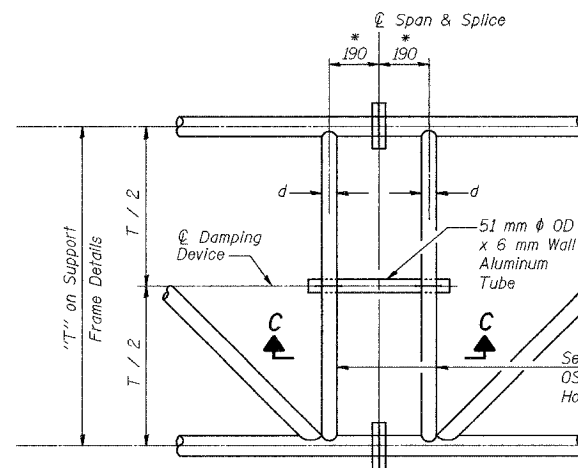
\*If M270M Gr. 345W steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

DESIGNED	BPS
CHECKED	KFA
DRAWN	MJB
CHECKED	GSP

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

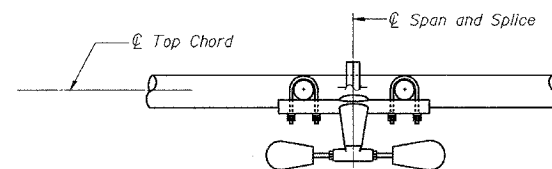
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P.A.L.	20242-2	LAKE COUNTY, INDIANA	1207	401
ALUMINUM	INDOT PROJECT			

CONTRACT NO. 62114 INDOT DES. NO. 0100987

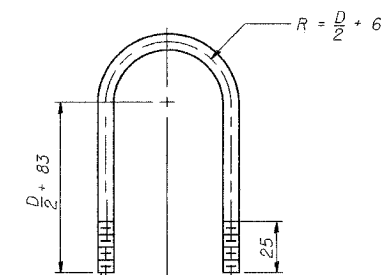


**PLAN DETAIL "C"**

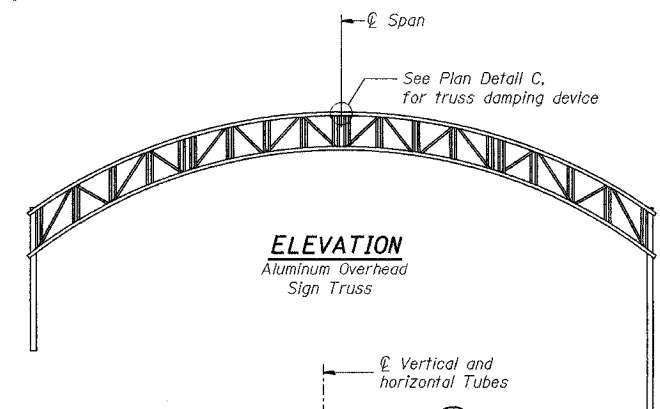
SPAN AT CHORD SPLICE



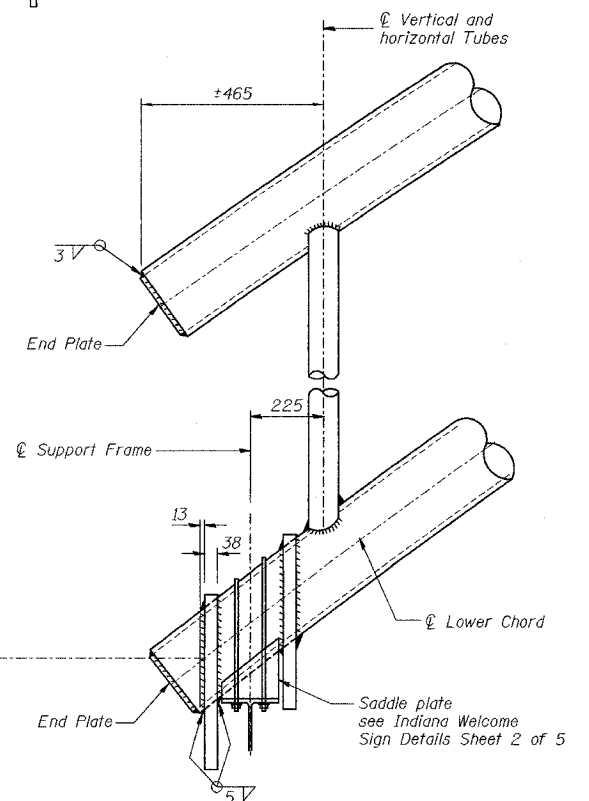
**SECTION C-C**



**TOP CHORD TO CROSS TUBE U-BOLT DETAIL**



**ELEVATION**  
Aluminum Overhead Sign Truss



**SUPPORT END DETAIL FOR EXTERIOR UNIT**

**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

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

INDIANA WELCOME SIGN DETAILS  
 SHEET 3 OF 5

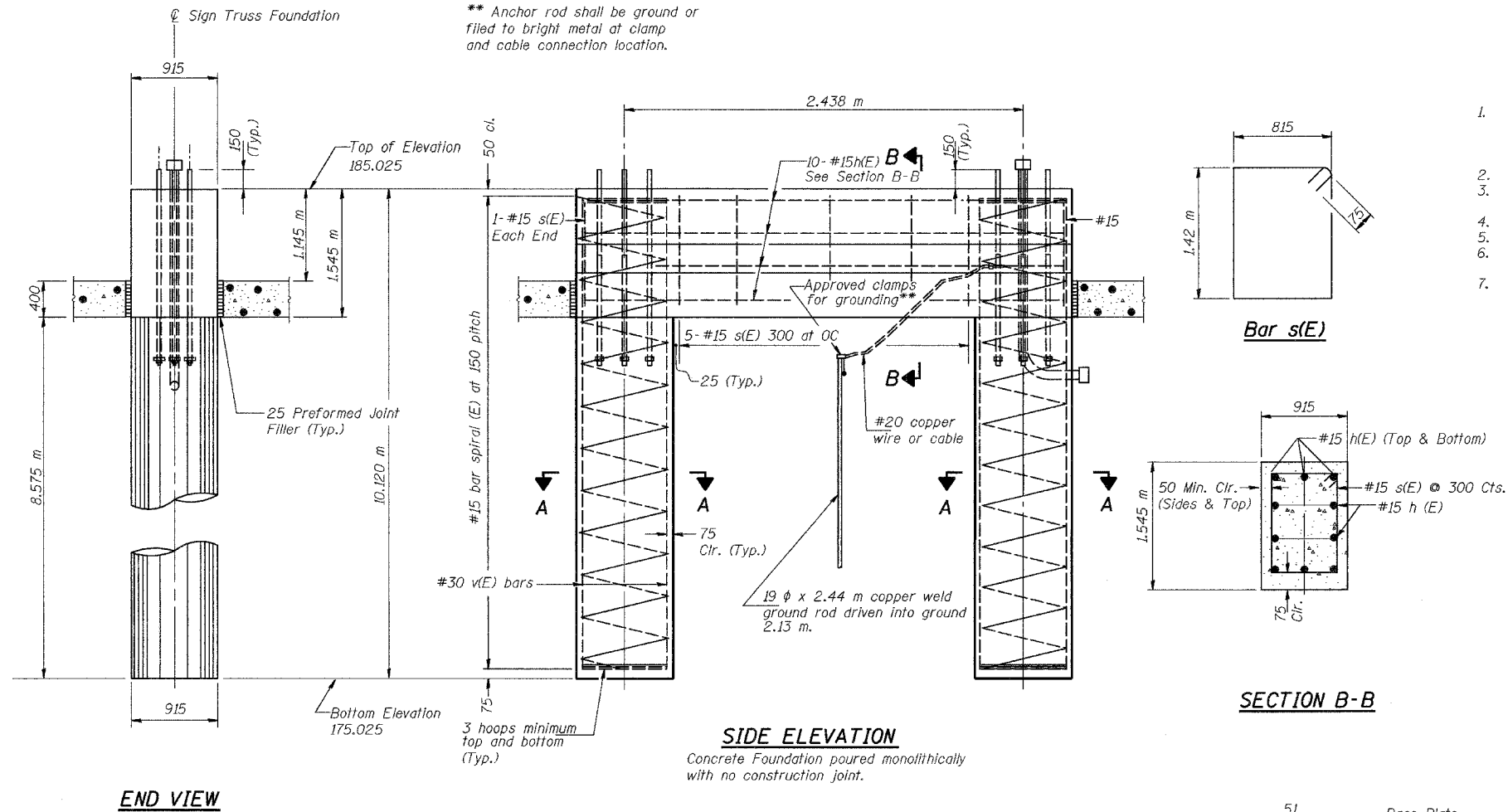
SCALE NTS  
 DATE 07/05  
 DRAWN BY ACE/CAD  
 CHECKED BY

**AMERICAN**  
 CONSULTING ENGINEERS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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	402
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



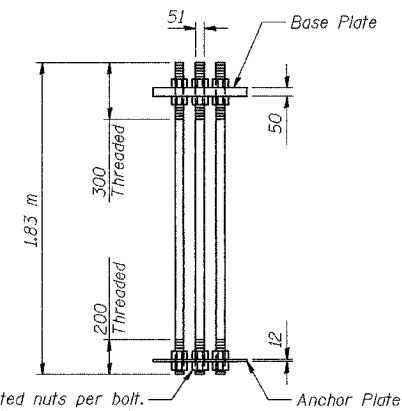
NOTES:

- If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If caisson depth is revised by more than 30% by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.
- No sonotubes or decomposable forms shall be used below the lower conduit entrance.
- Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.
- Concrete shall be placed monolithically, without construction joints.
- Backfill shall be placed prior to erection of support column.
- A normal surface finish followed by a Bridge Seal Sealer application will be required on concrete surfaces above the lowest elevation 150 below finished ground line.
- Anchor bolts shall conform to AASHTO M314M Grade 250 or 380 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 bolts.

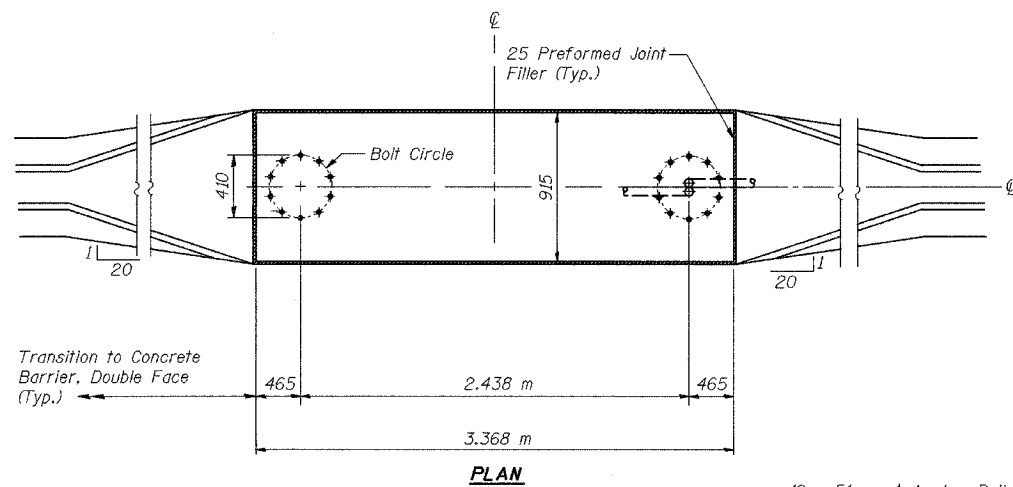
At caissons extending into granular soil or at locations where the underground water extends within a sand layer, a temporary casing should be required. At water locations, the temporary casing should extend down to the top of clay layer and sealed at least 150mm into the cohesive soil.

BILL OF MATERIAL

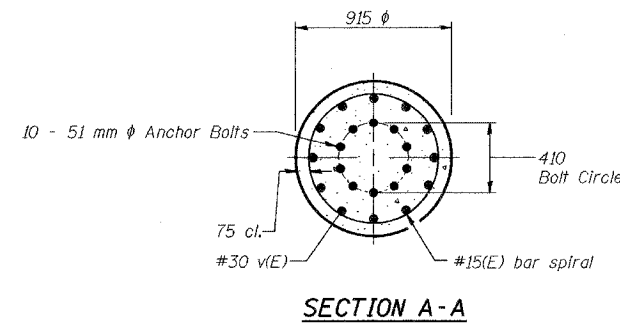
Bar	Number	Size	Length	Shape
h(E)	10	#15	3.27 m	—
s(E)	7	#15	4.62 m	□
v(E)	24	#30	9.99 m	—
#15(E) bar spiral see Side Elevation				
Reinforcing Steel, Sign Foundation (Indiana)			kg	2,300
Concrete Sign Foundation (Indiana)			m <sup>3</sup>	15.6



ANCHOR BOLT DETAIL



PLAN



SECTION A-A

DESIGNED	BPS
CHECKED	KFA
DRAWN	MJB
CHECKED	GSP

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
INDIANA WELCOME SIGN DETAIL  
SHEET 4 OF 5

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



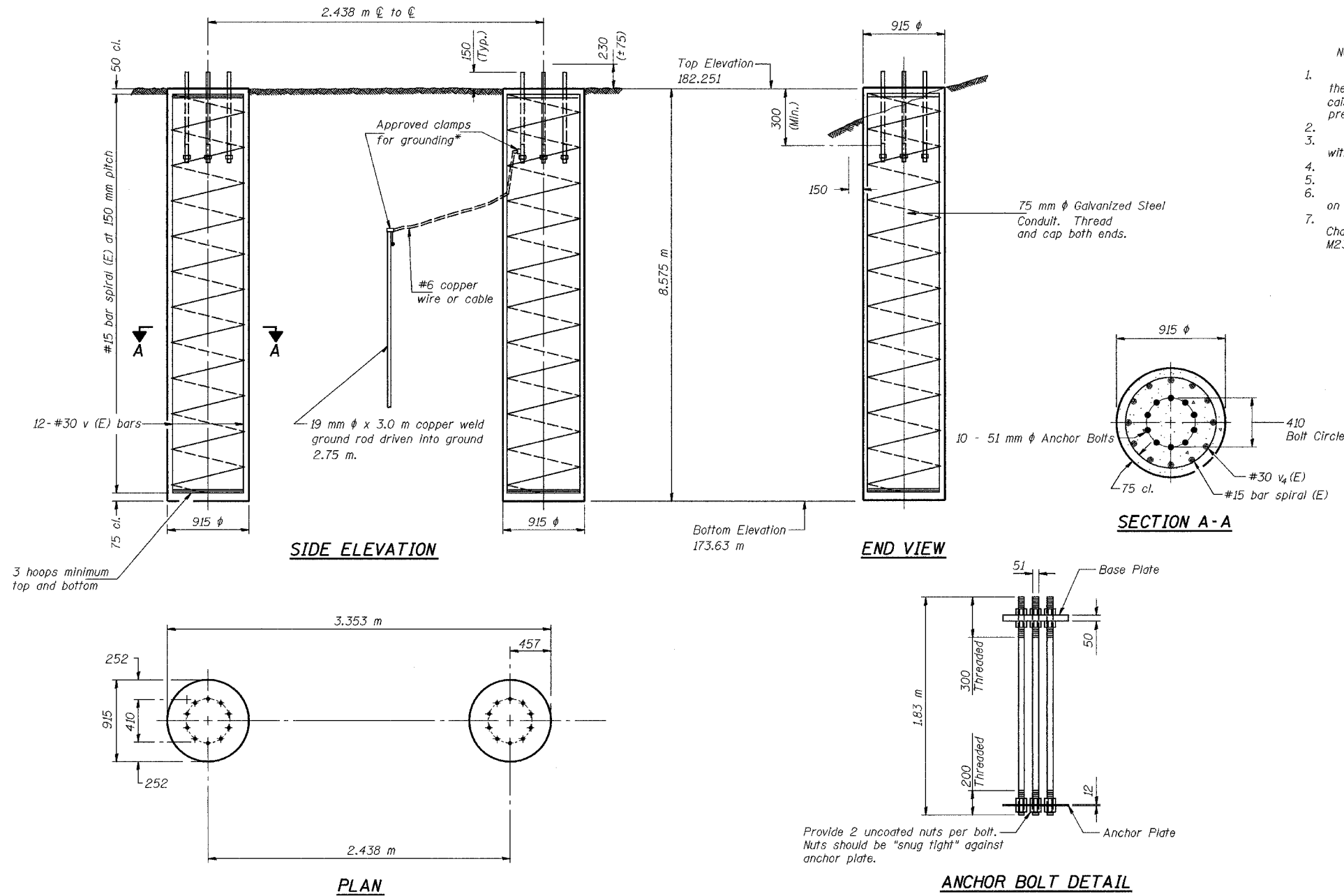
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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. 403
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

For anchor rod size and placement, see Support Frame Detail Sheet.

\*Anchor rod shall be ground or filled to bright metal at clamp and cable connection location.



NOTES:

- If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If the caisson depth is revised by more than 305 by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.
- No sonotubes or decomposable forms shall be used below the lower conduit entrance.
- Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.
- Concrete shall be placed monolithically, without construction joints.
- Backfill shall be placed prior to erection of support column.
- A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 150 below finished ground line.
- Anchor bolts shall conform to AASHTO M314M Grade 250 or 380 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 bolts.

At caissons extending into granular soil or at locations where the underground water extends within a sand layer, a temporary casing should be required. At water locations, the temporary casing should extend down to the top of clay layer and sealed at least 150mm into the cohesive soil.

BILL OF MATERIAL

Bar	Number	Size	Length	Shape
v (E)	24	#30	8.95 m	—
#15(E) bar spiral see Side Elevation				
Reinforcing Steel, Sign Foundation (Indiana)			kg	1,880
Concrete Sign Foundation (Indiana)			m <sup>3</sup>	8.7

DESIGNED	BPS
CHECKED	KFA
DRAWN	MJB
CHECKED	GSP

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**INDIANA WELCOME SIGN DETAIL**  
**SHEET 5 OF 5**

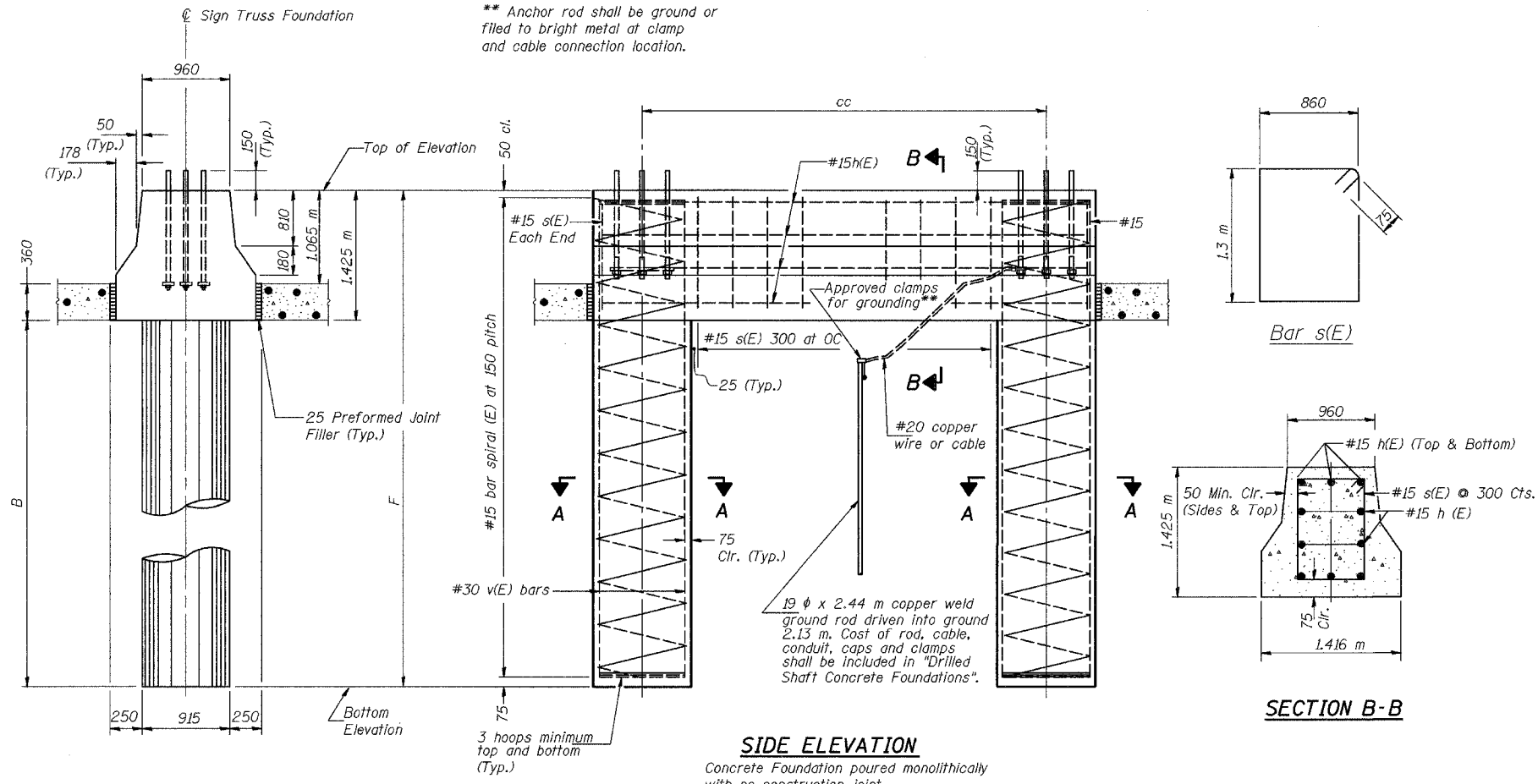
SCALE NTS  
DATE 07/05

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CONSULTING ENGINEERS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	404
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



**NOTES:**  
The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 120 kPa, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.  
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 305 by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.  
No sonotubes or decomposable forms shall be used below the lower conduit entrance.  
Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.  
Concrete shall be poured monolithically, without construction joints.  
Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.  
A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 150 below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

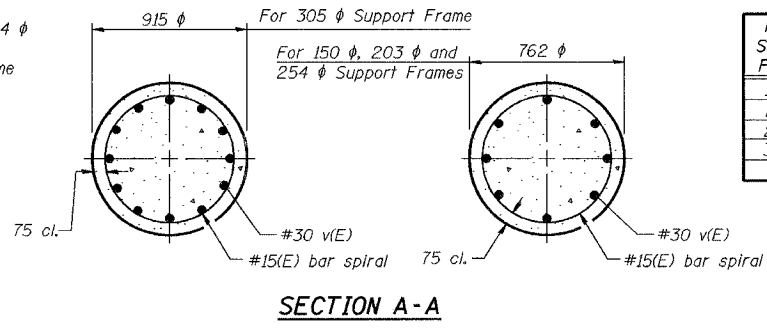
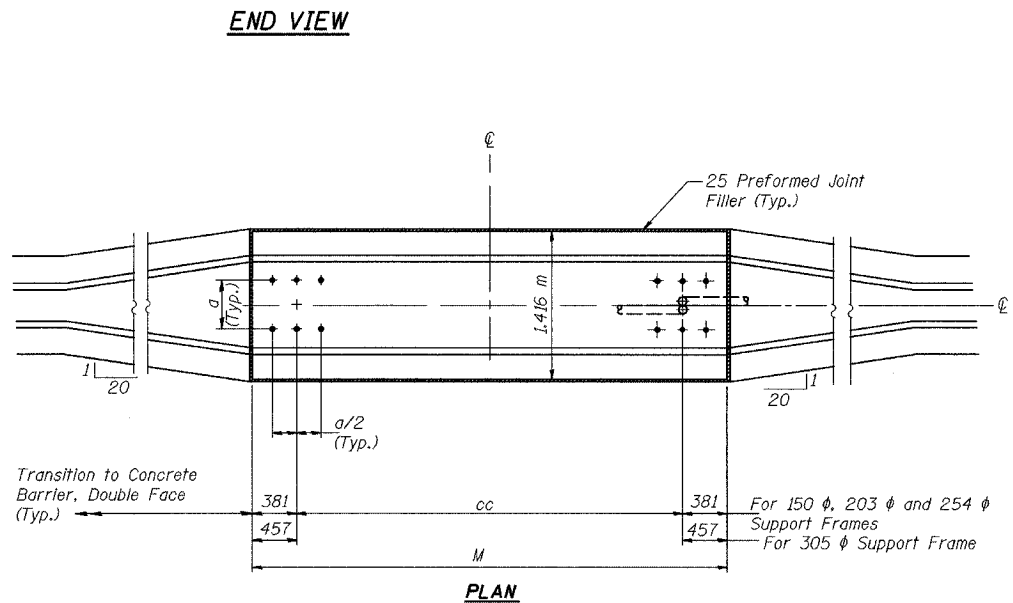
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ALL WORK AND MATERIALS SHALL BE INCLUDED FOR PAYMENT UNDER "DRILLED SHAFT CONCRETE FOUNDATIONS".

**BAR LIST - EACH FOUNDATION**

Bar	Number	Size	Length	Shape
h(E)	10	#15	M less 100	—
s(E)	Varies	#15	4.470 m	□
v(E)	16	#30	F less 127	—
v(E)	24	#30	F less 127	—

150 φ, 203 φ and 254 φ Support Frame  
305 φ Support Frame  
#15(E) bar spiral see Side Elevation

Structure Number	Station	Left Foundation				Right Foundation				Class SI Concrete (Cu. m)
		Elevation Top *	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F	
ISO161080L162.9	6+951.478	188.905	177.052	10.428	11.853					14.6
ISO161080R163.1	7+239.540	184.865	175.465	7.975	9.400					12.4
ISO161080L163.1	7+312.695	184.638	174.638	8.575	10.000					12.9
ISO161080L163.5	7+948.045	184.969	175.479	8.065	9.490					16.5



Pipe Support Frames	cc	M	a	a/2
150 φ	2.13 m	2.90 m	275	140
203 φ	2.29 m	3.05 m	343	171
254 φ	2.52 m	3.28 m	381	191
305 φ	2.75 m	3.66 m	457	229

Conduit in foundation is incidental to "Drilled Shaft Concrete Foundation" for sign structures pay item.

DESIGNED	BPS
CHECKED	KFA
DRAWN	MJB
CHECKED	GSP

REVISIONS	
NAME	DATE

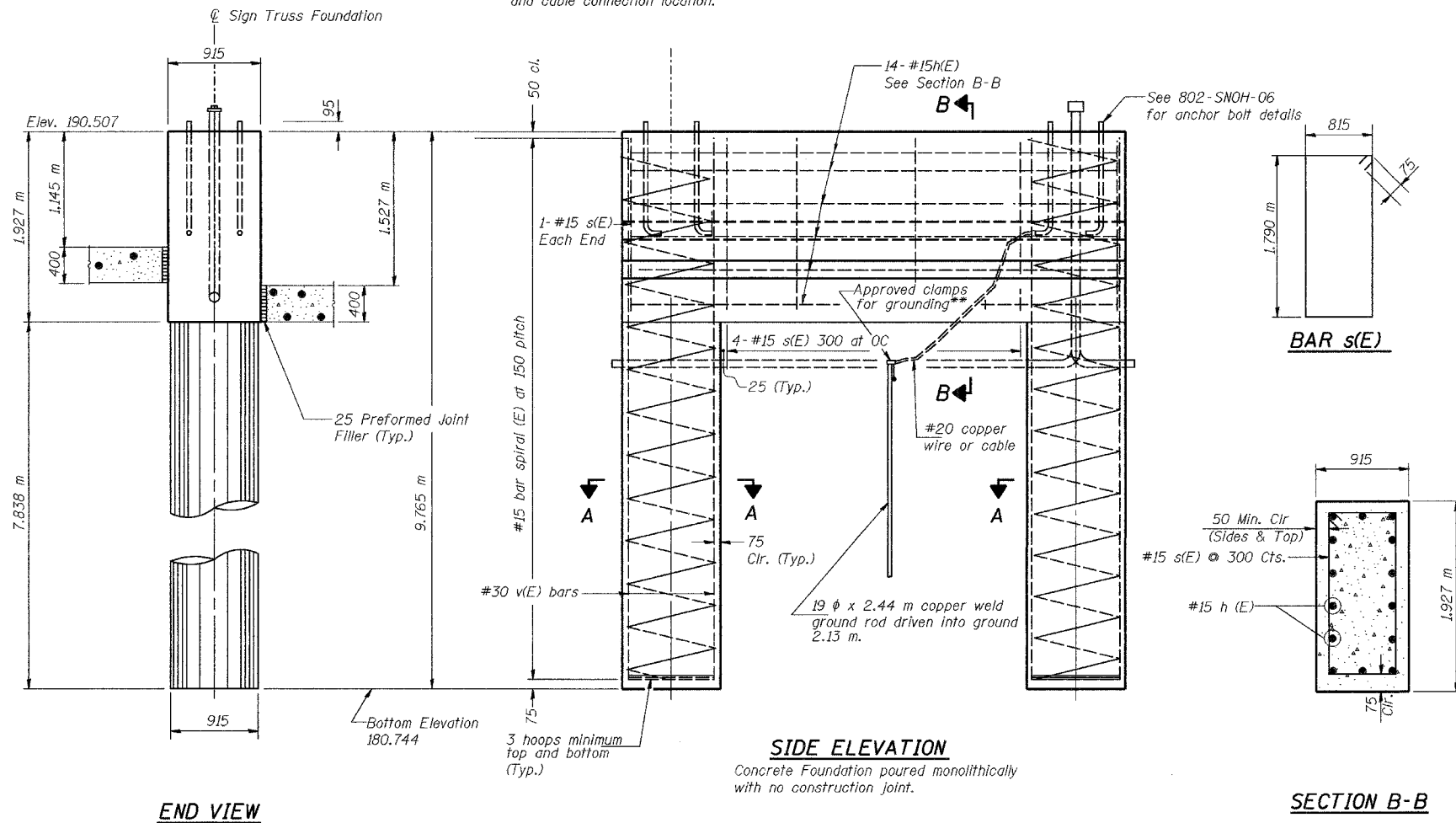
ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**ILLINOIS SIGN STRUCTURE FOUNDATION DETAILS**  
SCALE NTS  
DATE 07/05  
DRAWN BY ACE/CAD  
CHECKED BY  
**AMERICAN CONSULTING ENGINEERS**

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	405
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

\*\* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.



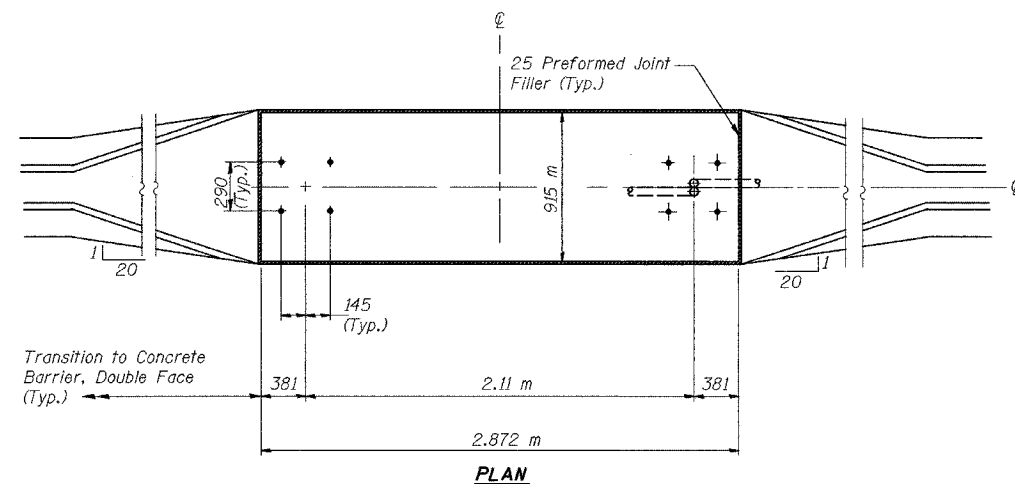
NOTES:

- If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If the caisson depth is revised by more than 305 by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.
- No sonotubes or decomposable forms shall be used below the lower conduit entrance.
- Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.
- Concrete shall be placed monolithically, without construction joints.
- Backfill shall be placed prior to erection of support column.
- A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 150 below finished ground line.

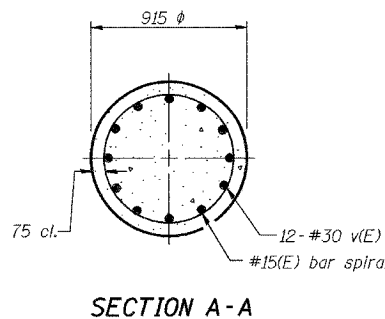
At caissons extending into granular soil or at locations where the underground water extends within a sand layer, a temporary casing should be required. At water locations, the temporary casing should extend down to the top of clay layer and sealed at least 150mm into the cohesive soil.

BILL OF MATERIALS

Bar	Number	Size	Length	Shape
h(E)	14	#15	2.77 m	—
s(E)	7	#15	3.83 m	□
v(E)	24	#30	9.63 m	—
#15(E) bar spiral see Side Elevation				
			Unit	Quantity
Reinforcing Steel, Sign Foundation (Indiana)			kg	2,240
Concrete Sign Foundation (Indiana)			m <sup>3</sup>	15.6



DESIGNED	BPS
CHECKED	KFA
DRAWN	MJB
CHECKED	GSP



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
INDIANA SIGN STRUCTURE  
FOUNDATION - STA. 8 + 264.972

SCALE NTS  
DATE 07/05

DRAWN BY ACE/CAD  
CHECKED BY

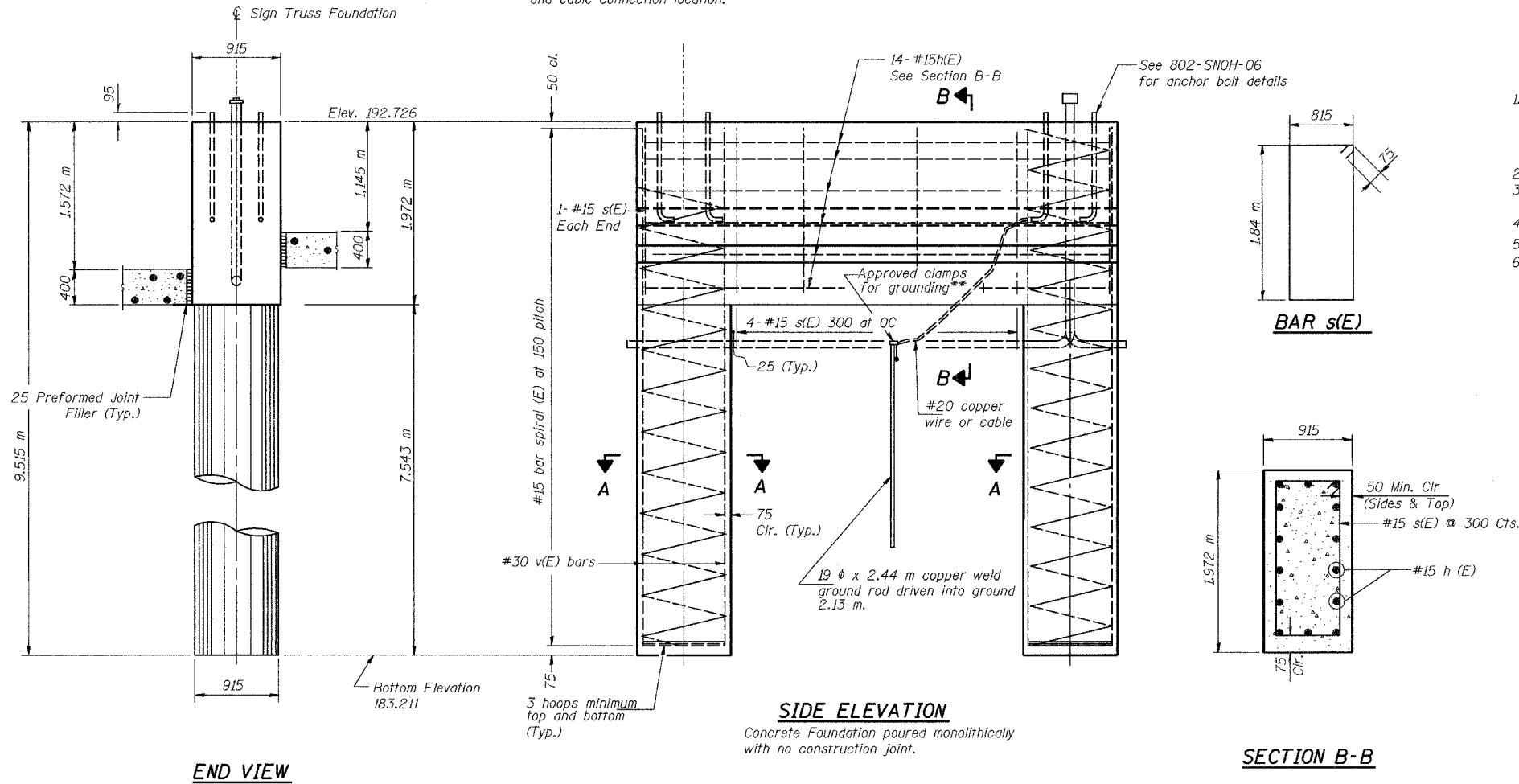
**AMERICAN**  
CONSULTING ENGINEERS

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	406
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

\*\* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

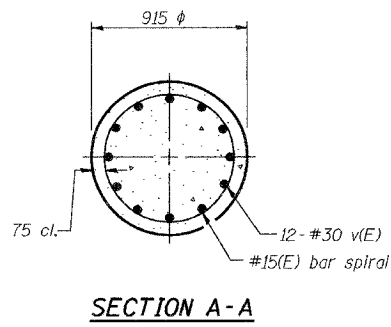
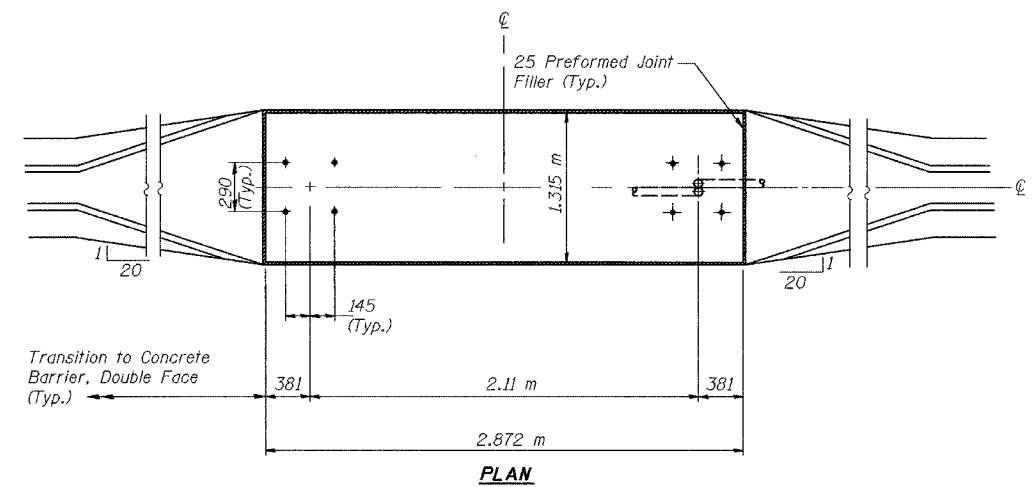


- NOTES:
- If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If the caisson depth is revised by more than 305 by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.
  - No sonotubes or decomposable forms shall be used below the lower conduit entrance.
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At caissons extending into granular soil or at locations where the underground water extends within a sand layer, a temporary casing should be required. At water locations, the temporary casing should extend down to the top of clay layer and sealed at least 150mm into the cohesive soil.

BILL OF MATERIALS

Bar	Number	Size	Length	Shape
h(E)	14	#15	2.77 m	—
s(E)	7	#15	5.46 m	□
v(E)	24	#30	9.38 m	—
#15(E) bar spiral see Side Elevation				
			Unit	Quantity
Reinforcing Steel, Sign Foundation (Indiana)			kg	2,200
Concrete Sign Foundation (Indiana)			m <sup>3</sup>	15.4



DESIGNED	BPS
CHECKED	KFA
DRAWN	MJB
CHECKED	GSP

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
1-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**INDIANA SIGN STRUCTURE**  
**FOUNDATION - STA. 8 + 375.901**

SCALE NTS  
DATE 07/05

DRAWN BY ACE/CAD  
CHECKED BY

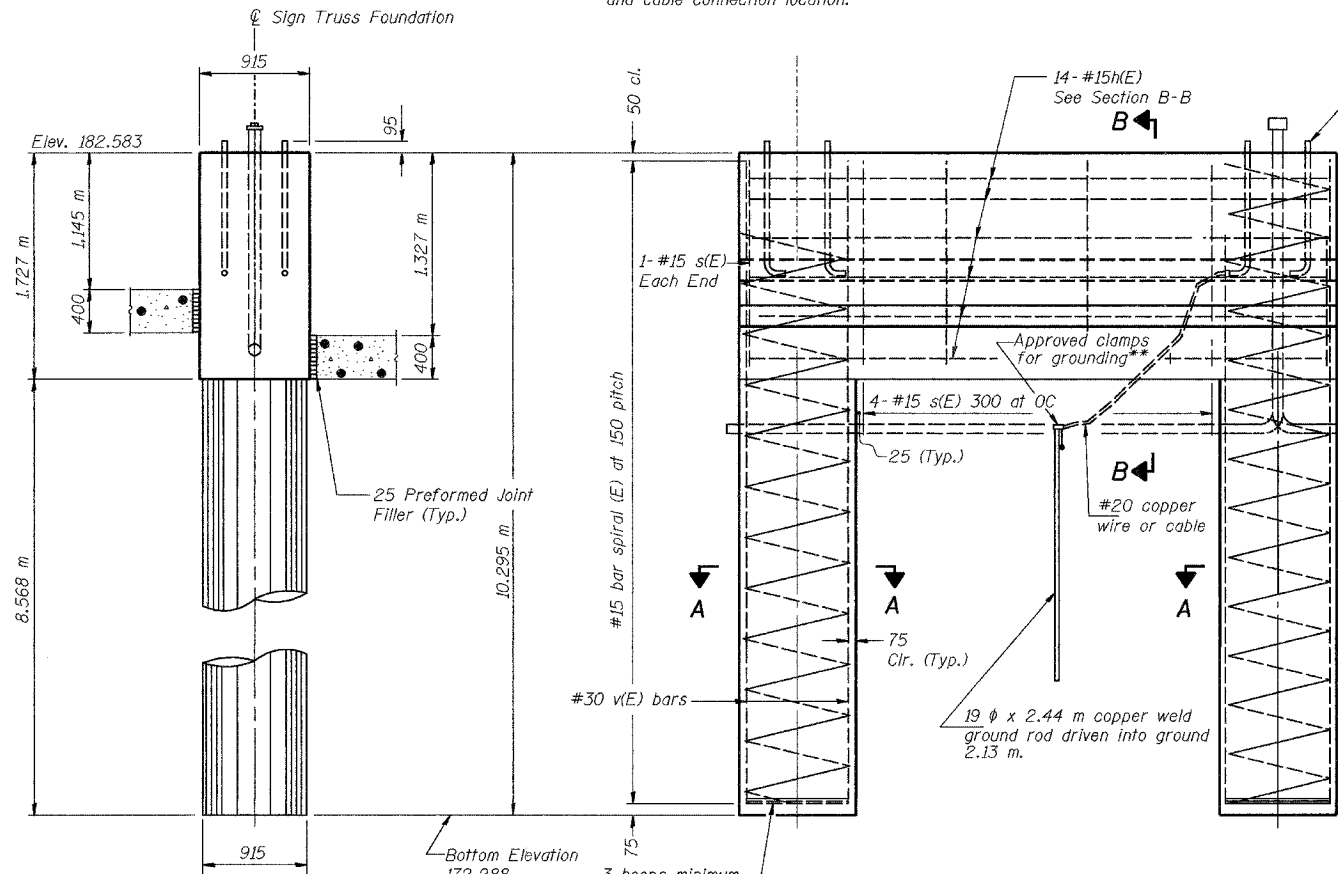
**AMERICAN**  
CONSULTING ENGINEERS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

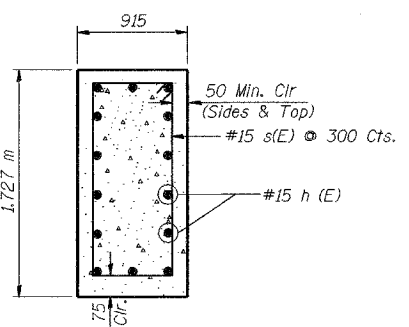
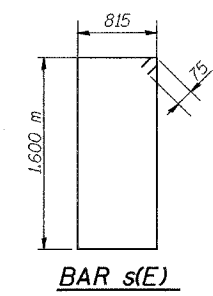
ALL DIMENSIONS IN MILLIMETERS EXCEPT  
PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	407
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

\*\* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.



**SIDE ELEVATION**  
Concrete Foundation poured monolithically with no construction joint.



**SECTION B-B**

NOTES:

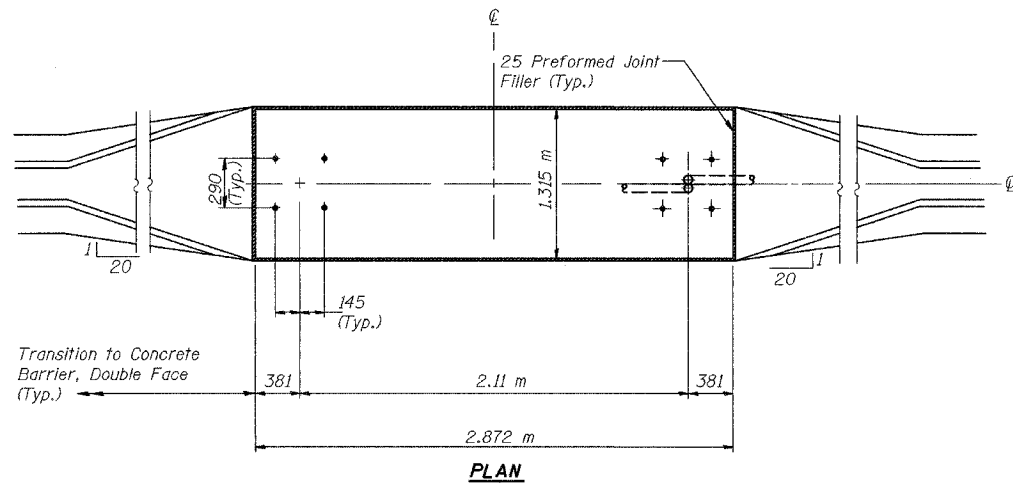
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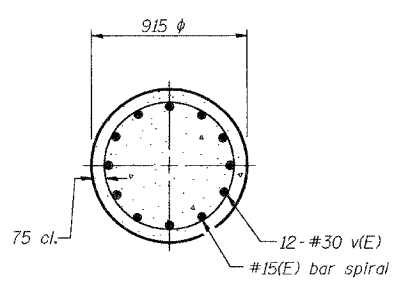
**BILL OF MATERIALS**

Bar	Number	Size	Length	Shape
h(E)	14	#15	2.77 m	—
s(E)	7	#15	4.98 m	□
v(E)	24	#30	10.16 m	—
#15(E) bar spiral see Side Elevation				
			Unit	Quantity
Reinforcing Steel, Sign Foundation (Indiana)			kg	2,360
Concrete Sign Foundation (Indiana)			m <sup>3</sup>	16.0

**END VIEW**



**PLAN**



**SECTION A-A**

DESIGNED	BPS
CHECKED	KFA
DRAWN	MJB
CHECKED	GSP

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**INDIANA SIGN STRUCTURE  
FOUNDATION - STA. 8 + 933.145**

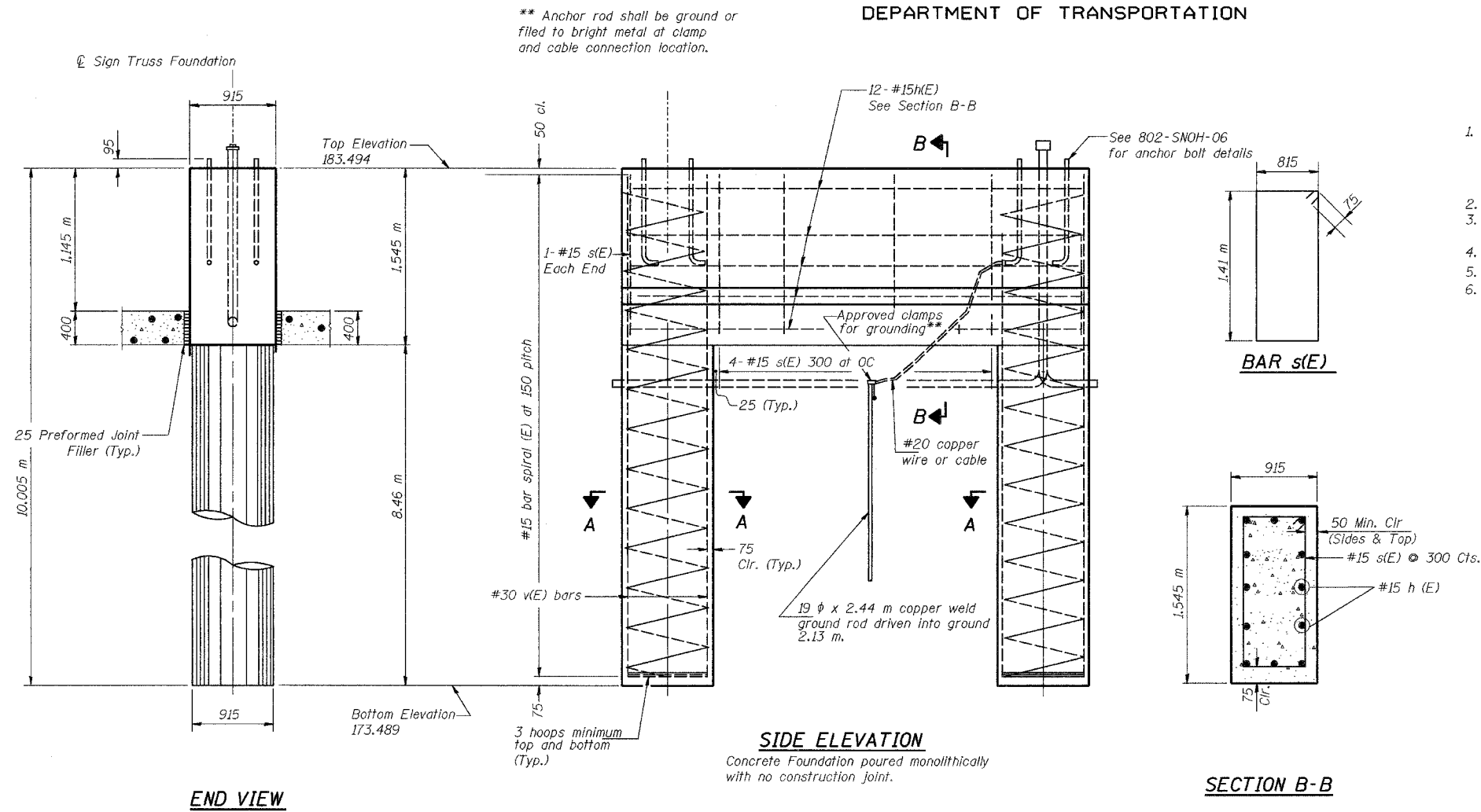
SCALE NTS  
DATE 07/05  
DRAWN BY ACE/CAD  
CHECKED BY



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	408
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



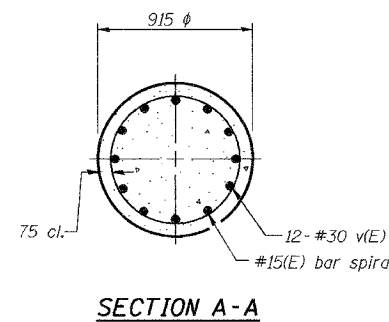
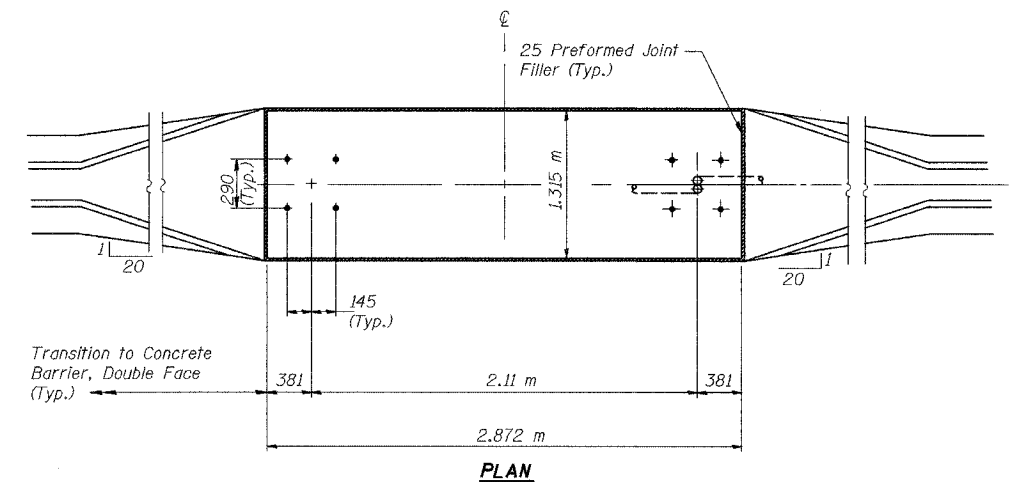
NOTES:

1. If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If the caisson depth is revised by more than 305 by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.
2. No sonotubes or decomposable forms shall be used below the lower conduit entrance.
3. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.
4. Concrete shall be placed monolithically, without construction joints.
5. Backfill shall be placed prior to erection of support column.
6. A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 150 below finished ground line.

At caissons extending into granular soil or at locations where the underground water extends within a sand layer, a temporary casing should be required. At water locations, the temporary casing should extend down to the top of clay layer and sealed at least 150mm into the cohesive soil.

BILL OF MATERIALS

Bar	Number	Size	Length	Shape
h(E)	12	#15	2.77 m	—
s(E)	7	#15	4.60 m	□
v(E)	24	#30	9.87 m	—
#15(E) bar spiral see Side Elevation				
				Unit
Reinforcing Steel, Sign Foundation (Indiana)				kg
Concrete Sign Foundation (Indiana)				m <sup>3</sup>
				Quantity
				2,290
				15.4



DESIGNED	BPS
CHECKED	KFA
DRAWN	MJB
CHECKED	GSP

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
INDIANA SIGN STRUCTURE  
FOUNDATION - STA. 9+202.197  
SHEET 1 OF 2

SCALE NTS  
DATE 07/05

DRAWN BY ACE/CAD  
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**AMERICAN**  
CONSULTING ENGINEERS



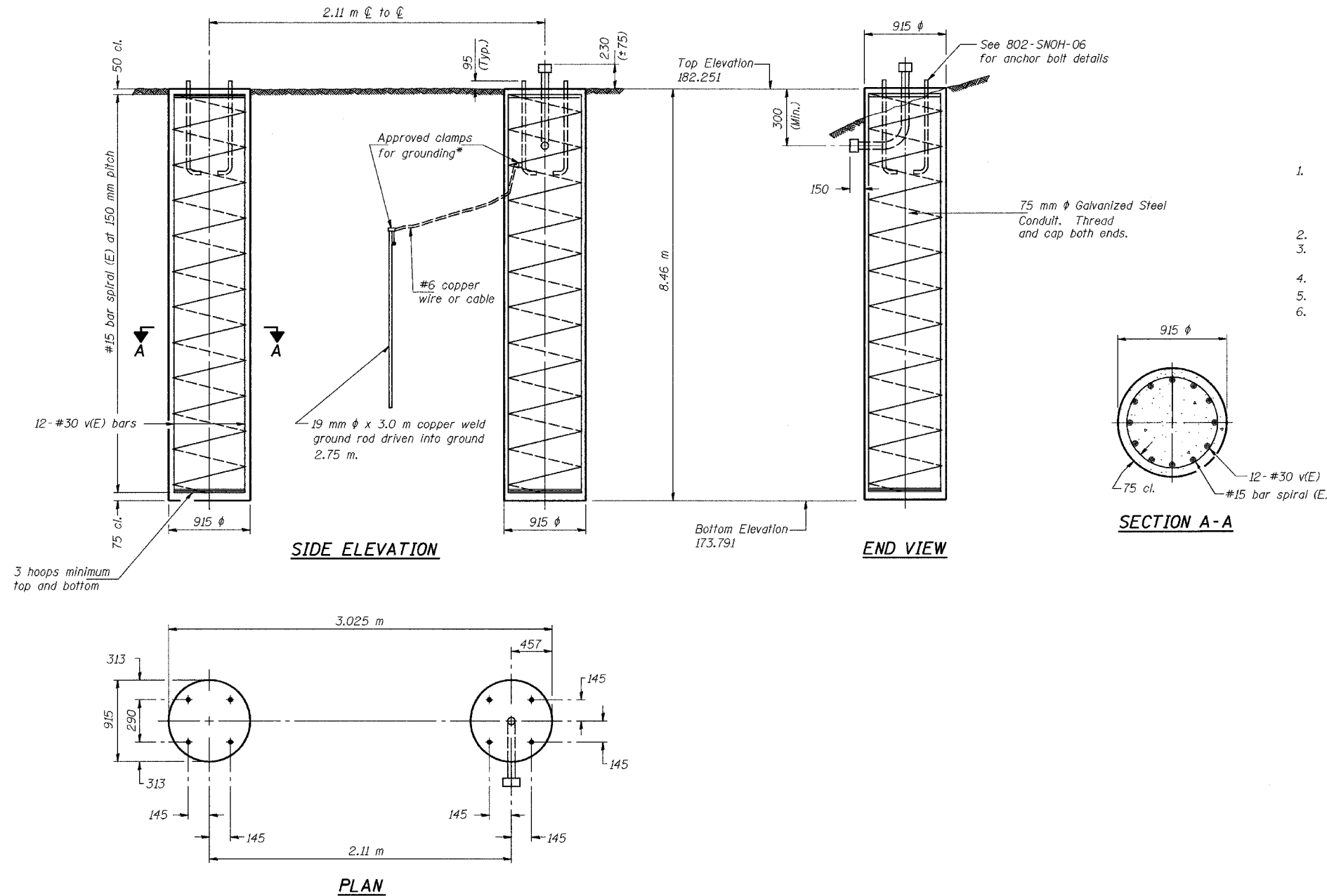
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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	409
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

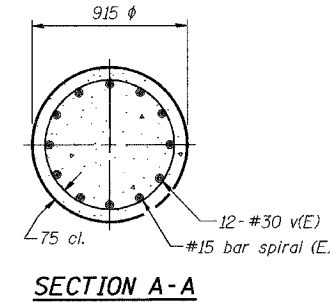
For anchor rod size and placement, see Support Frame Detail Sheet.

\*\*Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.



- NOTES:
- If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If the caisson depth is revised by more than 305 by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.
  - No sonotubes or decomposable forms shall be used below the lower conduit entrance.
  - Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.
  - Concrete shall be placed monolithically, without construction joints.
  - Backfill shall be placed prior to erection of support column.
  - A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 150 below finished ground line.

At caissons extending into granular soil or at locations where the underground water extends within a sand layer, a temporary casing should be required. At water locations, the temporary casing should extend down to the top of clay layer and sealed at least 150mm into the cohesive soil.



BILL OF MATERIALS

Bar	Number	Size	Length	Shape
v(E)	24	#30	8.33 m	—
#15(E) bar spiral see Side Elevation				
			Unit	Quantity
Reinforcing Steel, Sign Foundation (Indiana)			kg	1,860
Concrete Sign Foundation (Indiana)			m <sup>3</sup>	10.7

DESIGNED	BPS
CHECKED	KFA
DRAWN	MJB
CHECKED	GSP

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**INDIANA SIGN STRUCTURE**  
**FOUNDATION - STA. 9+202.197**  
**SHEET 2 OF 2**

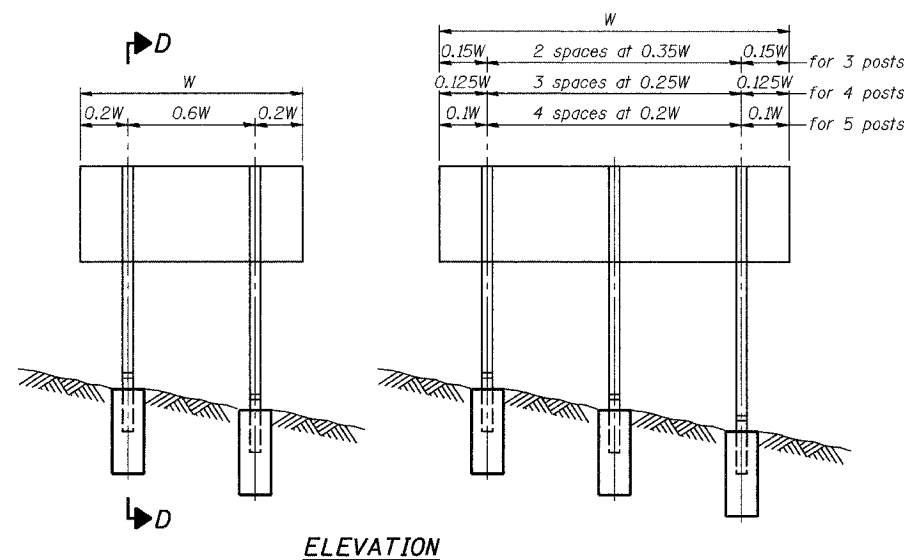
SCALE NTS  
DATE 07/05

DRAWN BY ACE/CAD  
CHECKED BY

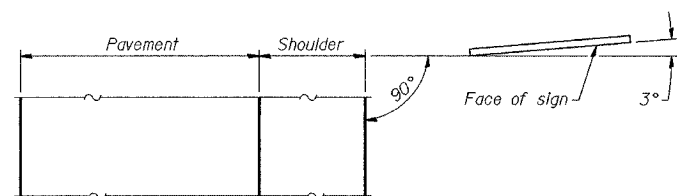
**AMERICAN**  
CONSULTING ENGINEERS

ALL DIMENSIONS IN MILLIMETERS EXCEPT  
PAY ITEMS AND UNLESS NOTED OTHERWISE

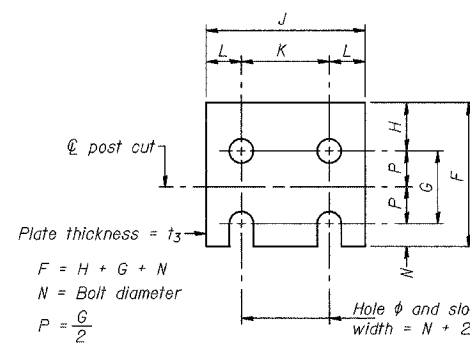
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	410
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



**ELEVATION**



**LOCATION SKETCH**

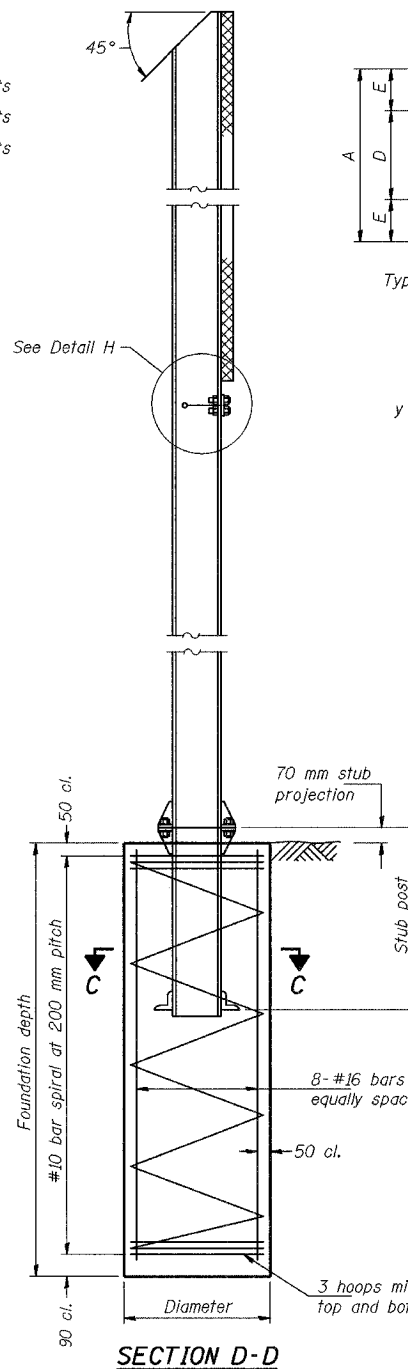


**FUSE PLATE DETAIL**

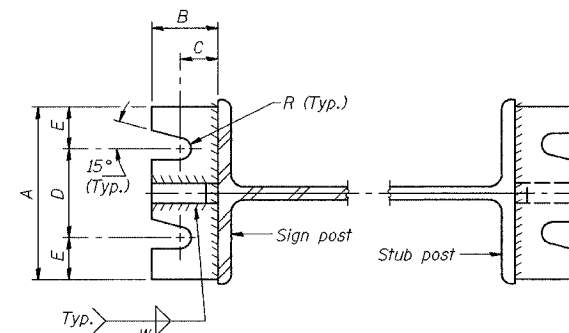
(Install with notches down.)

FUSE PLATE DATA		
N = Bolt Diameter	G	H
M12	50	30
M16	60	30
M20	65	35
M22	70	40
M24	75	40
M27	85	45

NUMBER	REVISION	DATE

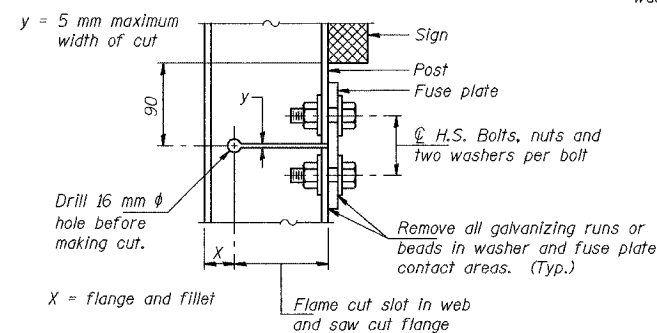


**SECTION D-D**

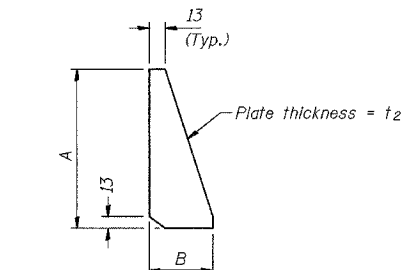


**SECTION A-A**

**SECTION B-B**

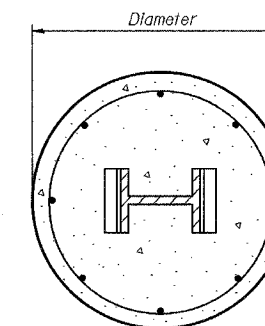


**DETAIL H**

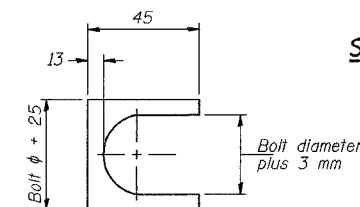


**STIFFENER PLATE DETAIL**

(See table for dimensions.)

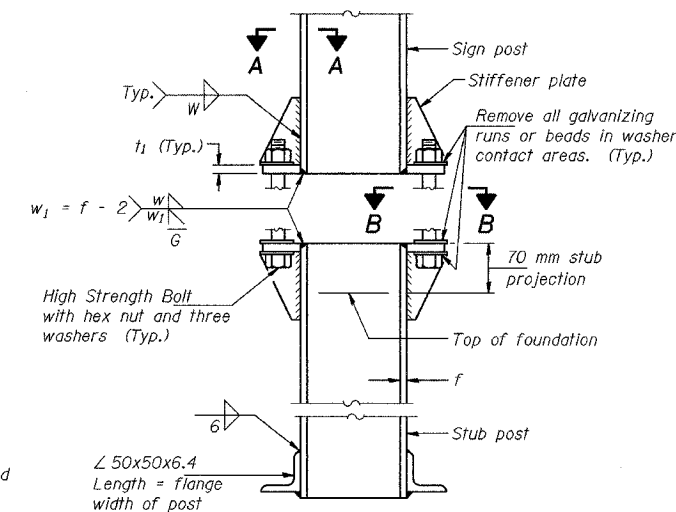


**SECTION C-C**



**SHIM DETAIL**

Furnish two 0.3 mm thick and two 0.8 mm thick stainless steel or brass (ASTM B36) shims per post.



**ELEVATION  
SIGN POST & STUB POST**

**GENERAL NOTES**

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

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 505.04(f)(3), and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 130 km/h wind with 30% gust factor, normal to sign.

DESIGN STRESSES:  
Structural steel - 138 MPa  
Reinforcing steel - 138 MPa  
Concrete - 10 MPa  
Footing soil pressure - 95 kPa

After fabrication, the post, fuse plate, base plate and upper 150 mm (Minimum) of the stub post shall be hot-dip galvanized in accordance with AASHTO M11. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2(M).

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
1-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**BREAK-AWAY WIDE FLANGE  
STEEL SIGN POST DETAILS**

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

**AMERICAN**  
CONSULTING ENGINEERS

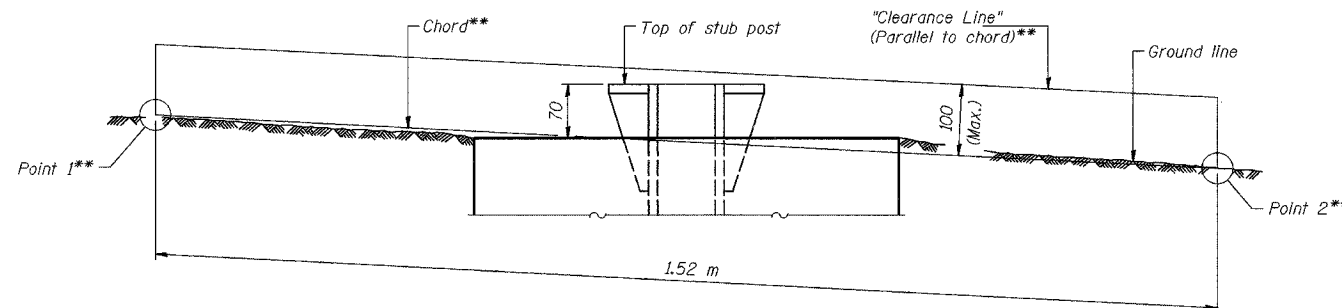
ALL DIMENSIONS IN MILLIMETERS EXCEPT  
PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	411
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

POST	CONCRETE FOUNDATION TABLE							POST TO STUB POST CONNECTION DATA										FUSE PLATE DATA				
	Foundation			Reinforcement				Stub Post Length	Bolt Size	A	B	C	D	E	t <sub>1</sub>	t <sub>2</sub>	R	W	J	K	L	t <sub>3</sub>
	Diameter	*Minimum Depth (m)	Concrete (m <sup>3</sup> ) (1)	Vertical Bars Length (m)	Bar Spirals Diameter	Bar Spirals Length (m)	kg (2)															
W150x14	610	1.8	0.53	1.72	520	24.1	41	690	M16x85	150	57	32	90	30	20	14	9	6	100	56	22	6
W150x22	610	1.8	0.53	1.72	520	24.1	41	760	M16x85	150	57	32	90	30	20	14	9	6	150	90	30	10
W200x27	610	1.8	0.53	1.72	520	24.1	41	760	M20x95	150	64	35	82	34	25	14	10	8	130	70	30	10
W250x33	760	2.0	0.91	1.92	675	32.0	49	910	M20x95	150	64	35	82	34	25	14	10	8	145	70	38	14
W250x39	760	2.1	0.95	2.02	675	34.1	52	910	M22x105	180	70	38	102	39	25	20	12	10	145	70	38	16
W310x39	760	2.4	1.09	2.32	675	36.3	58	910	M22x105	180	70	38	102	39	25	20	12	10	165	90	38	16
W360x45	910	2.2	1.43	2.12	825	44.2	61	910	M22x105	180	70	38	102	39	25	20	12	10	170	90	40	14
W360x57	910	2.4	1.56	2.32	825	46.6	66	1.07 m	M24x115	190	76	44	102	44	32	20	13	10	170	90	40	14
W410x67	910	2.6	1.69	2.52	825	49.4	70	1.07 m	M24x115	190	76	44	102	44	32	20	13	10	180	90	45	14

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

POST	FUSE PLATE BOLT SIZE													
	Sign Depth (m)													
	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	
W150x14	M12x40	M12x40	M12x40	M16x45	M16x45	M16x45	---	---	---	---	---	---	---	
W150x22	M12x45	M12x45	M16x50	M16x50	M20x50	M20x50	M20x50	M20x50	M22x60	M22x60	---	---	---	
W200x27	M12x45	M12x45	M16x50	M16x50	M20x50	M20x50	M22x60	M22x60	M22x60	M22x60	M22x60	M22x60	M22x60	
W250x33	M12x50	M12x50	M16x60	M16x60	M20x60	M20x60	M22x65	M22x65	M22x65	M24x70	M24x70	M24x70	M24x70	
W250x39	M12x50	M12x50	M16x60	M16x60	M20x65	M20x65	M22x65	M22x65	M22x65	M24x70	M24x70	M24x70	M27x80	
W310x39	---	---	---	---	M16x60	---	---	M22x65	M22x65	M24x70	M24x70	M24x70	M24x70	
W360x45	M12x50	M12x50	M12x50	M12x50	M16x60	M20x60	M20x60	M20x60	M22x65	M24x70	M24x70	M24x70	M24x70	
W360x57	---	M12x50	M12x50	M12x50	M12x50	M16x60	M20x65	M20x65	M20x65	M22x65	M22x65	M24x70	M24x70	
W410x67	---	---	M12x50	M12x50	M16x60	M16x60	M20x65	M20x65	M20x65	M22x65	M22x65	M24x70	M24x70	



**ELEVATION**  
**GROUND LINE & STUB POST**

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

- (1) Quantity includes all concrete necessary for one foundation.
- (2) Includes reinforcement bars and spiral hooping for one foundation.

CHECKED  
**BAW-A-2(M)** 11/1/2002

NUMBER	REVISION	DATE

REVISIONS	
NAME	DATE

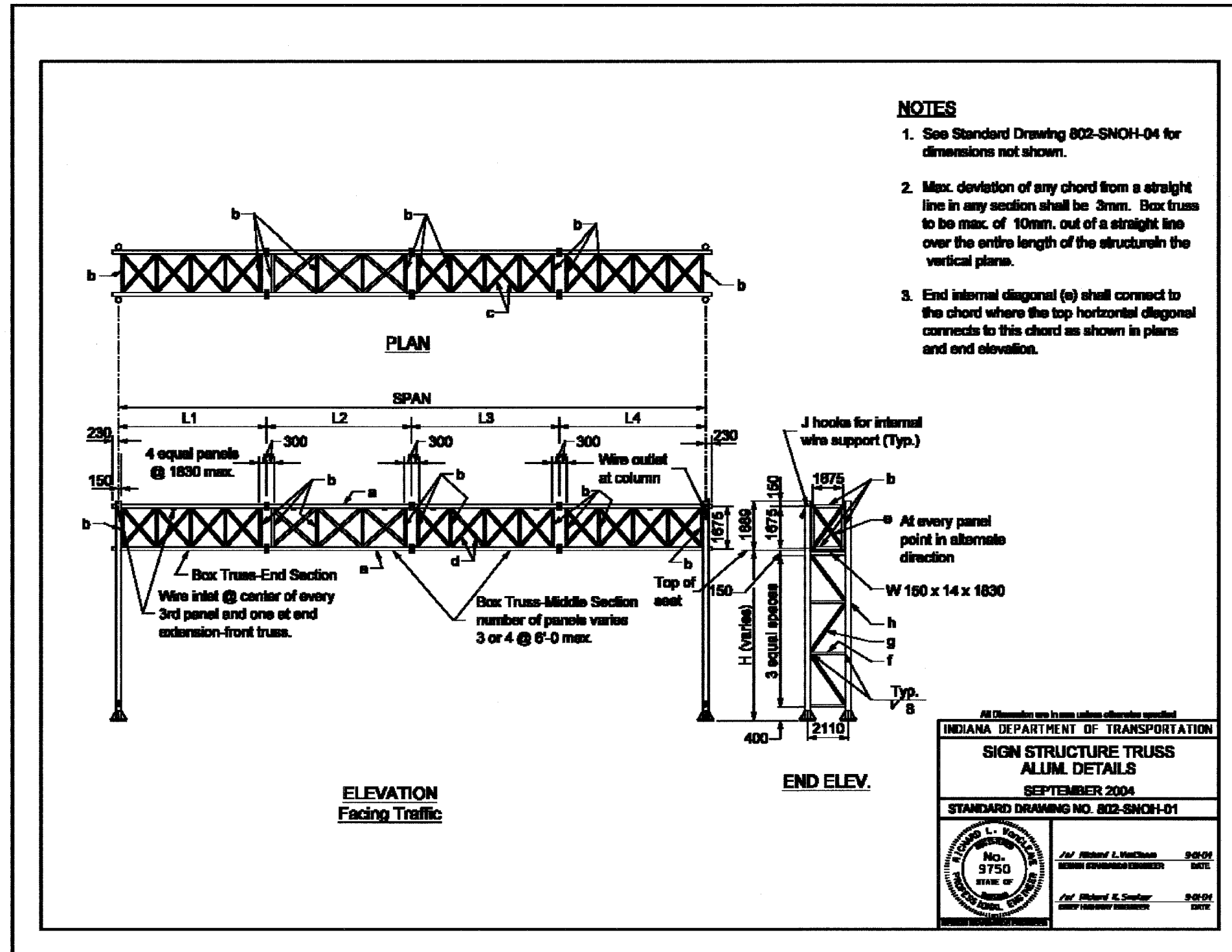
ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**BREAK-AWAY WIDE FLANGE  
STEEL SIGN POST DETAILS**

SCALE: DATE 07/05

DRAWN BY ACE/CAD  
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	415
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

**SIGN STRUCTURE TRUSS**

**ALUM. DETAILS**

SEPTEMBER 2004

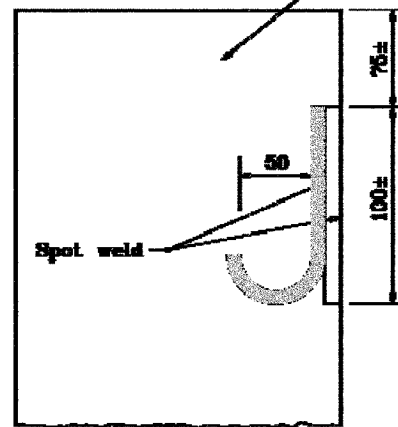
STANDARD DRAWING NO. 802-SNOH-01

	/s/ Richard L. VandenBerghe REGISTERED ENGINEER DATE: 9/8/04
	/s/ Richard K. Smiley CHIEF ENGINEER DATE: 9/8/04

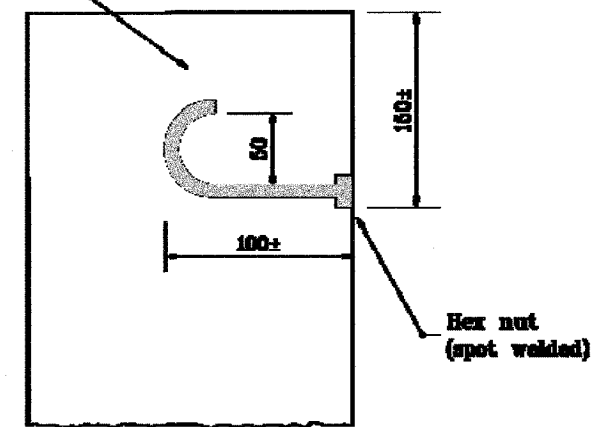
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80/94	2626.2-R-2	COOK/LAKE	1207	416
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

**J HOOKS**

End support



**TYPE A**



**TYPE B**

**NOTES:**

1. Type A hook shall consist of two 8 mm to 10 mm stainless steel bars, constructed as shown in detail above and spot welded to inside of the end support.
2. Type B hook shall consist of one 10 mm to 10 mm stainless steel bar shaped as shown in detail above, threaded on straight end and fastened to inside by means of a hex nut spot welded to the end support.

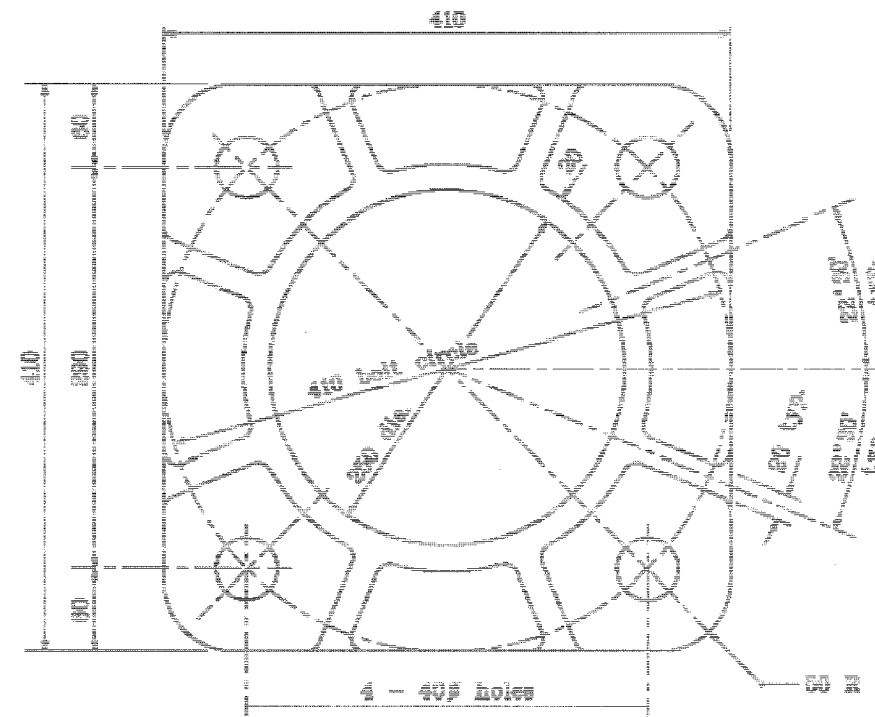
All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION	
SIGN STRUCTURE TRUSS	
DETAILS	
SEPTEMBER 2001	
STANDARD DRAWING NO. 802-SNOH-02	
	<i>/s/ Anthony J. Demasick</i> 2-01-01 DESIGN STRUCTURE ENGINEER INDC
	<i>/s/ Frank Smith</i> 2-01-01 DESIGN STRUCTURE ENGINEER INDC

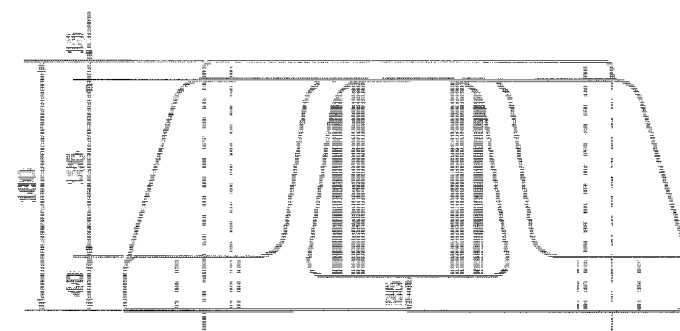
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80/94	2626.2-R-2	COOK/LAKE	1207	417
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

**GENERAL NOTES**

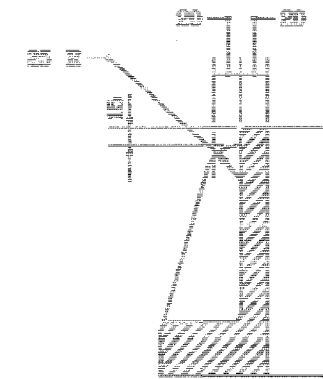
- All radii 5 mm unless noted.



**PLAN**



**ELEVATION**



**TYP. DETAIL OF RIB**

All dimensions are in mm unless otherwise specified.

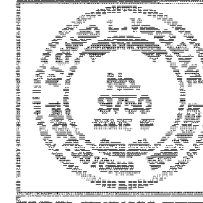
INDIANA DEPARTMENT OF TRANSPORTATION

**SIGN STRUCTURE TRUSS**

**DETAILS**

MARCH 2002

STANDARD DRAWING NO. 302-SNOH-03



/s/ Richard L. VanCleave 3-20-02  
DESIGN STANDARD ENGINEER DEPT

/s/ Richard K. Smuler 3-07-02  
CHIEF HIGHWAY ENGINEER DEPT


TRUSS SCHEDULE (ALUMINUM STRUCTURE)					See code table					CAMBER <sup>④</sup>
SPAN	L1	L2	L3	L4	a	b	c	d	e <sup>③</sup>	
18 m	6 m	6 m	—	6 m	EX	AX	CX	CX	BX	25 mm
24 m	6 m	6 m	6 m	6 m	EX	AX	CX	CX	BX	32 mm
30 m	7.5 m	7.5 m	7.5 m	7.5 m	EX	AX	CX	CX	BX	50 mm

END SUPPORT SCHEDULE				See code table				CODE	DIAMETER	CODE	WALL THICKNESS	
H	f	g	h	A	B	C	D	E	F	W	X	Z
7.4 m max.	CW	DX	FZ	50 mm	70 mm	75 mm	115 mm	120 mm	250 mm	5 mm	6.5 mm	10 mm

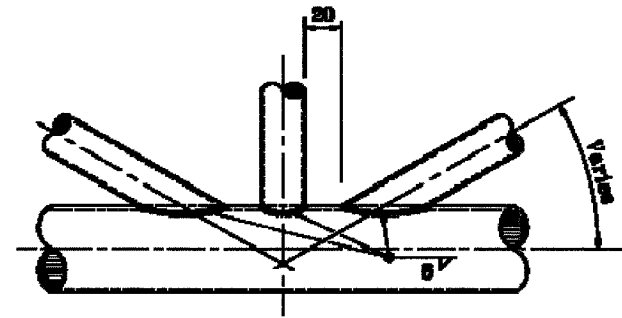
**NOTES:**

1. Sign area = 45 m<sup>2</sup> max.
2. See Standard Drawing 802-SNOH-01 for dimension locations.
- ③ Use 75 mm dia. x 6.5 mm wall thickness at panels adjacent to columns.
- ④ Ordinate at center of assembled truss prior to dead load deflection. Allowable camber tolerance for truss is 25%

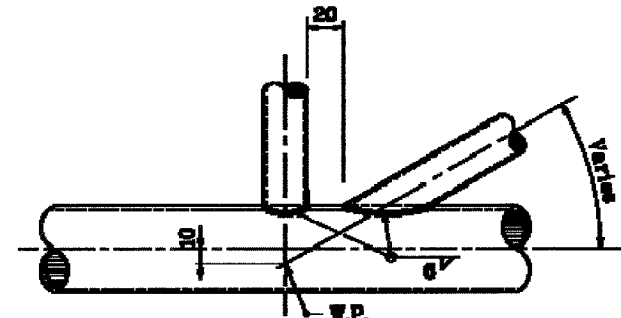
All Dimensions are in mm unless otherwise specified

INDIANA DEPARTMENT OF TRANSPORTATION	
SIGN STRUCTURE TRUSS ALUM. SCHEDULES	
March 2004	
STANDARD DRAWING NO. 802-SNOH-04	
	<i>Richard L. VanCleave</i> 3-04 <small>REGISTERED PROFESSIONAL ENGINEER</small>
	<i>Richard E. Sauter</i> 3-04 <small>REGISTERED PROFESSIONAL ENGINEER</small>

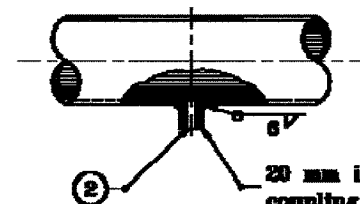
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	419
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



**DETAIL A  
PANEL CONNECTION**

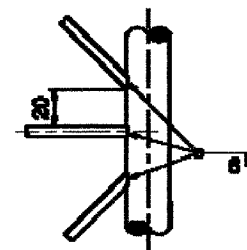


**DETAIL B  
PANEL CONNECTION**



**DETAIL C  
WIRE OUTLET**

20 mm inside diameter aluminum coupling welded into hole in chord



**TYPICAL WELD DETAIL**

**GENERAL NOTES**

1. All bracing members shall be machined to provide a snug fit to the chord members along the entire edge of bracing members before welding.
2. Drill 25 dia. hole in chord-round edges.

All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION

**ALUMINUM STRUCTURE  
DETAILS**

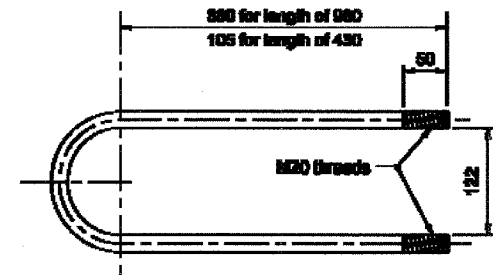
SEPTEMBER 2001

STANDARD DRAWING NO. 002-SNOH-05

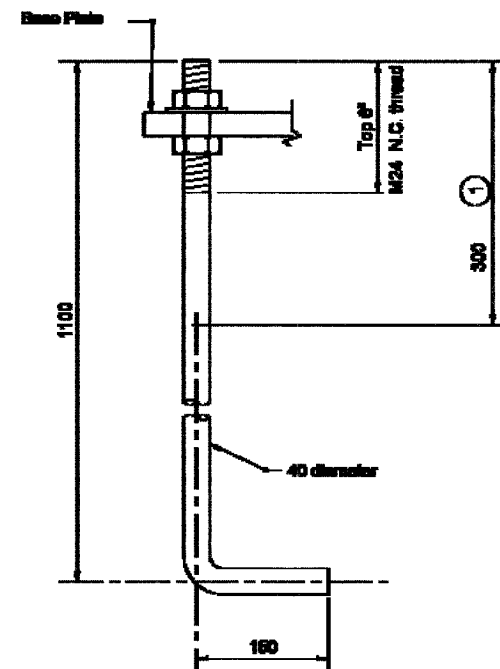
	<i>/s/ Anthony L. Brumback</i> 9-01-01 REGISTERED PROFESSIONAL ENGINEER    DATE:
	<i>/s/ Steve Smith</i> 9-01-01 CHIEF REGISTERED ENGINEER    DATE:



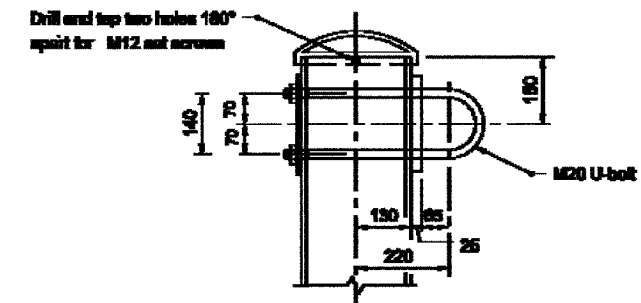
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	420
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



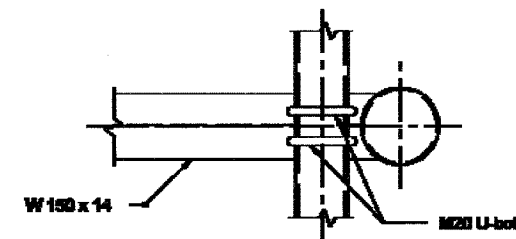
**3/8 IN. STAINLESS STEEL U-BOLT DETAIL**



**ANCHOR BOLT DETAIL**



**UPPER CHORD CONNECTION DETAIL**



**LOWER CHORD CONNECTION DETAIL**

**NOTES:**  
① After threading, coat or mechanically galvanize as required.

*All Dimensions are in mm unless otherwise specified*

**INDIANA DEPARTMENT OF TRANSPORTATION**

**ALUMINUM STRUCTURE BOLT DETAILS**

**MARCH 2004**

**STANDARD DRAWING NO. 802-SNOH-08**

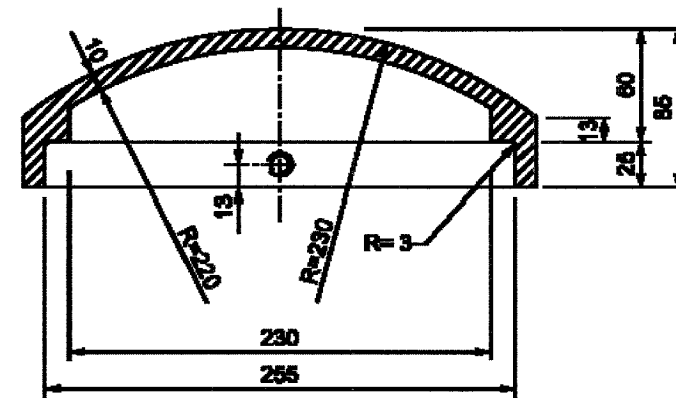
	<i>/s/ Richard L. VanCleave</i> <small>REGISTERED PROFESSIONAL ENGINEER</small> <small>DATE</small>	<b>3-0-04</b>
	<i>/s/ Richard L. VanCleave</i> <small>REGISTERED PROFESSIONAL ENGINEER</small> <small>DATE</small>	<b>3-0-04</b>

Division of Transportation Engineering

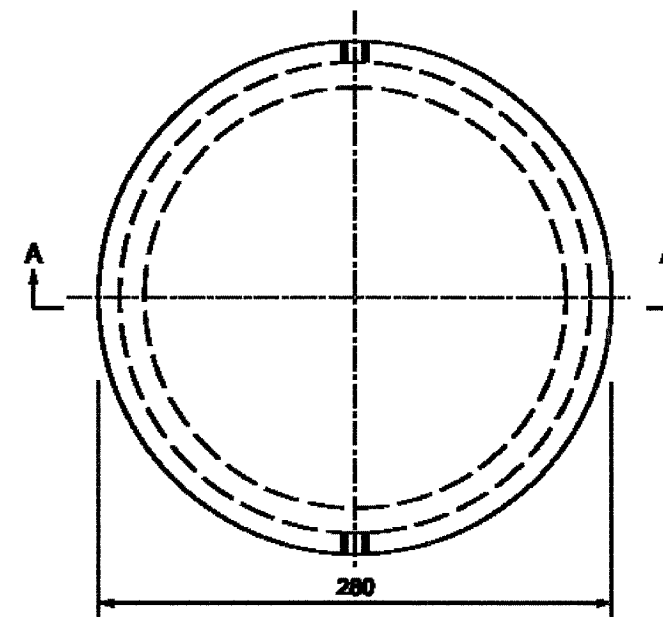
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	421
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			

**GENERAL NOTES**

1. Drill and tap two holes 180° apart for M12 stainless steel set screws.
2. Sand-cast aluminum alloy.



**SECTION A-A**



**250 O.D. POLE TOP CASTING**

All Dimensions are in mm unless otherwise specified

**INDIANA DEPARTMENT OF TRANSPORTATION**

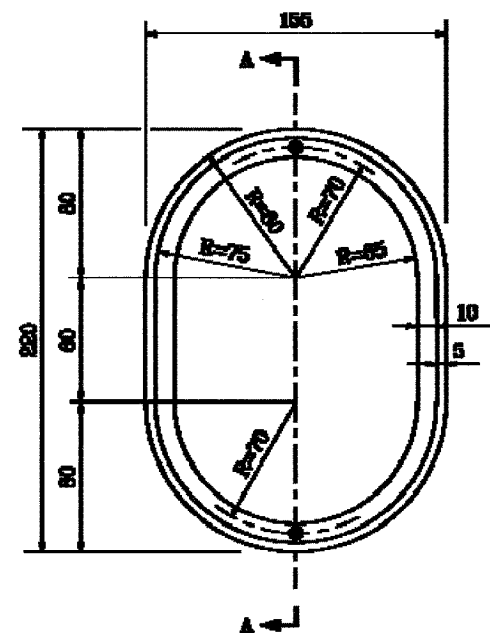
**ALUMINUM STRUCTURE  
POLE TOP CASTING**

**MARCH 2003**

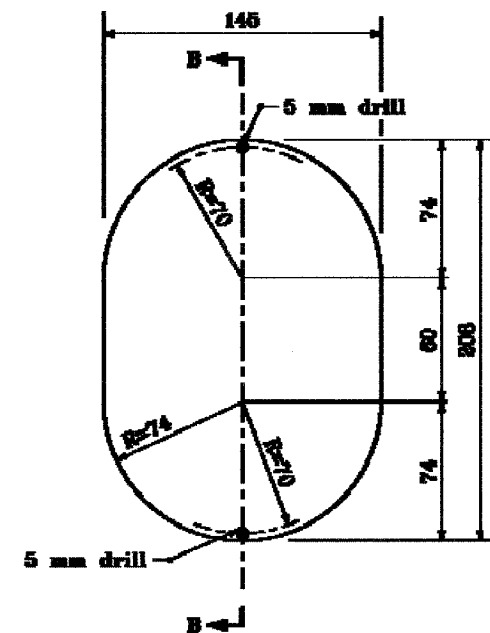
**STANDARD DRAWING NO. 802-SNOH-08**

	<i>Prof. Richard L. Koetzle</i> <b>3-03-03</b> <small>DESIGN ENGINEER</small> <small>DATE</small>
	<i>Prof. Richard L. Koetzle</i> <b>3-03-03</b> <small>CHIEF ENGINEER</small> <small>DATE</small>

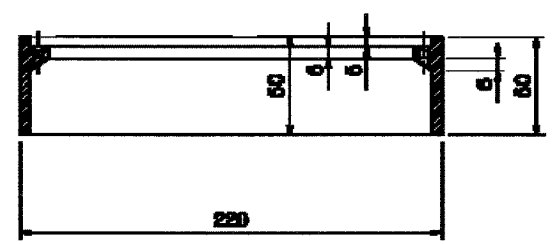
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	422
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



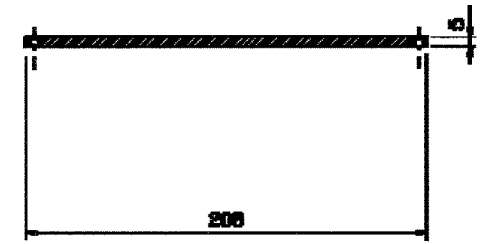
**ELECTRICAL CONDULET**



**CONDULET COVER**



**SECTION A-A**



**SECTION B-B**

**GENERAL NOTES**

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

All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION

**ALUMINUM STRUCTURE**

**CONDULET DETAILS**

SEPTEMBER 2001

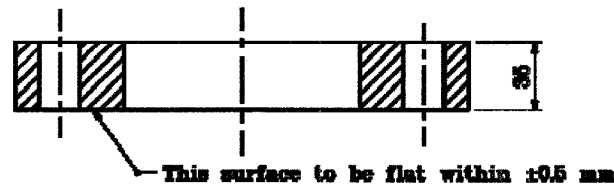
STANDARD DRAWING NO. 502-SNOH-09

	<i>/s/ Anthony L. Brumack</i> 9-01-01 DESIGN ENGINEER
	<i>/s/ Steve Smith</i> 9-01-01 DESIGN ENGINEER

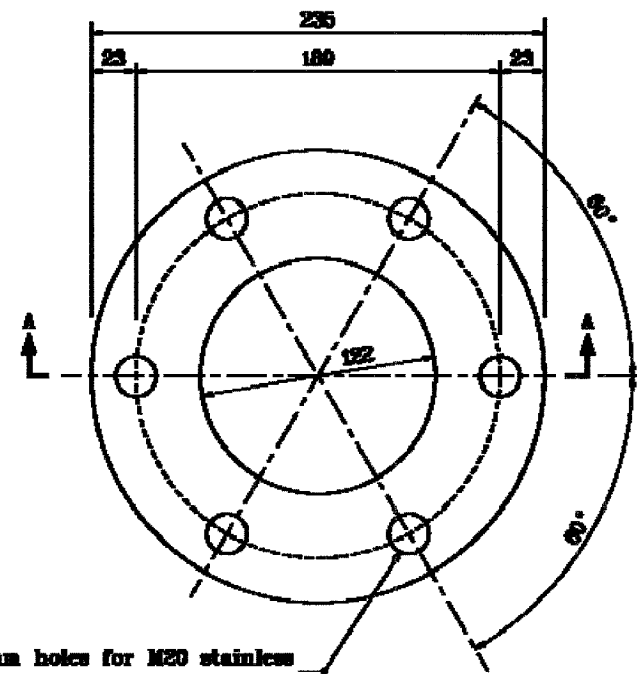
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	423
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			

**GENERAL NOTES**

1. Sand-cast aluminum alloy.



**SECTION A-A**



Drill 6-22 mm holes for M20 stainless steel hex head bolts equally spaced.

**PLAN**

All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION

ALUMINUM STRUCTURE

FLANGE DETAIL

SEPTEMBER 2001

STANDARD DRAWING NO. 602-SNOH-10



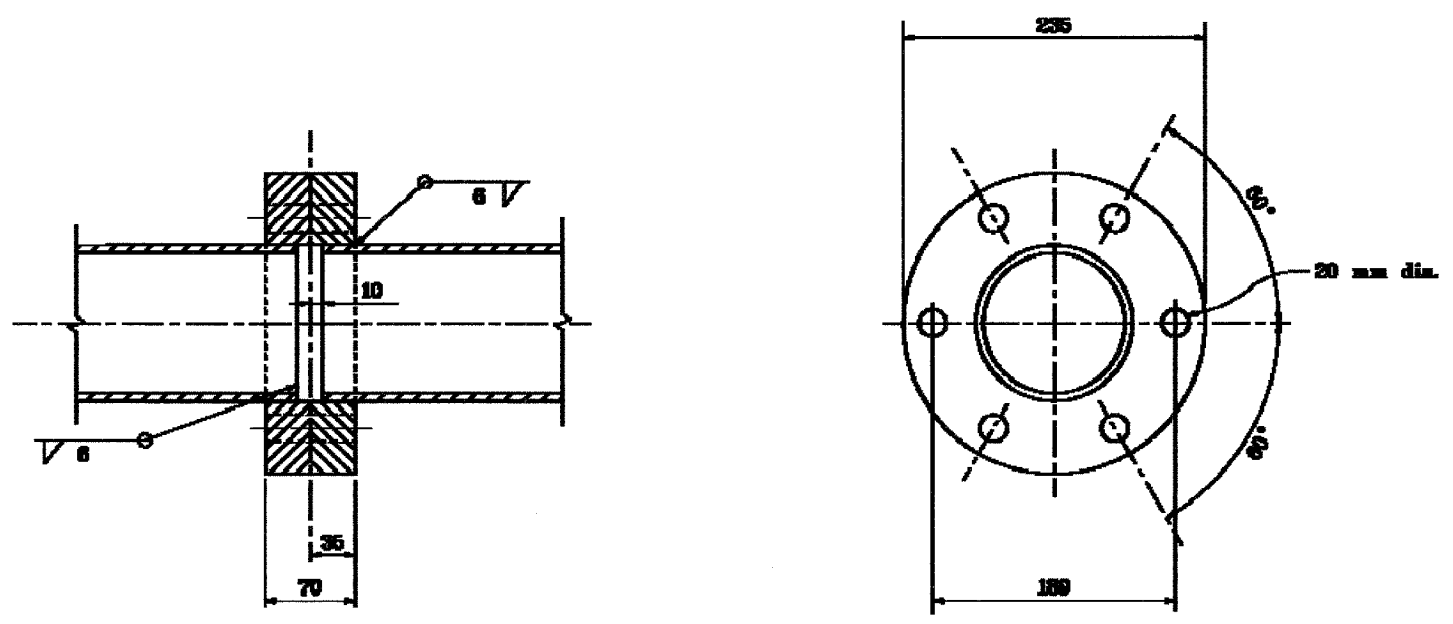
*/s/ Anthony L. Dransick 9-01-01*  
REGISTERED PROFESSIONAL ENGINEER

*/s/ Ferns Smith 9-01-01*  
CHECKED MECHANICAL ENGINEER

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	424
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			

**GENERAL NOTES**

1. Flanges shall be given additional finish if necessary to ensure contact between plates.



**SPLICE DETAIL**

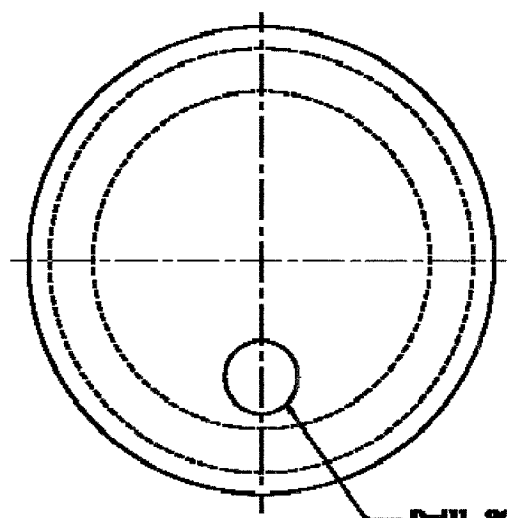
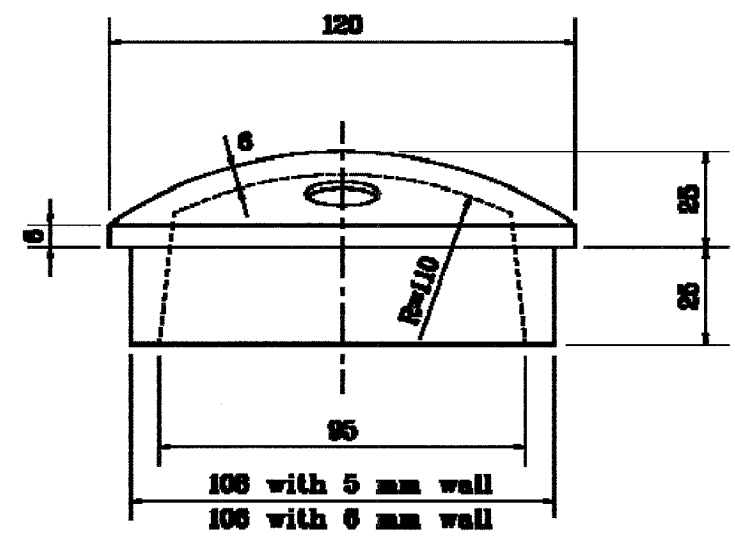
All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION  
**ALUMINUM STRUCTURE  
 SPLICE DETAIL**  
 SEPTEMBER 2001  
 STANDARD DRAWING NO. 602-SNOH-11

	<i>/s/ Anthony L. Grunwald</i> 9-01-07 <small>REGISTERED PROFESSIONAL ENGINEER</small>
	<i>/s/ Ferns Bault</i> 9-01-07 <small>REGISTERED PROFESSIONAL ENGINEER</small>

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	425
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			

**GENERAL NOTES**  
 1. Sand-cast aluminum alloy.



**END CAP FOR 120 O.D. TUBE**

All dimensions are in mm unless otherwise specified.

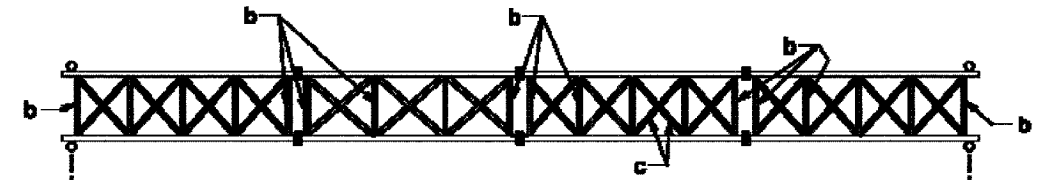
INDIANA DEPARTMENT OF TRANSPORTATION

**END CAP**

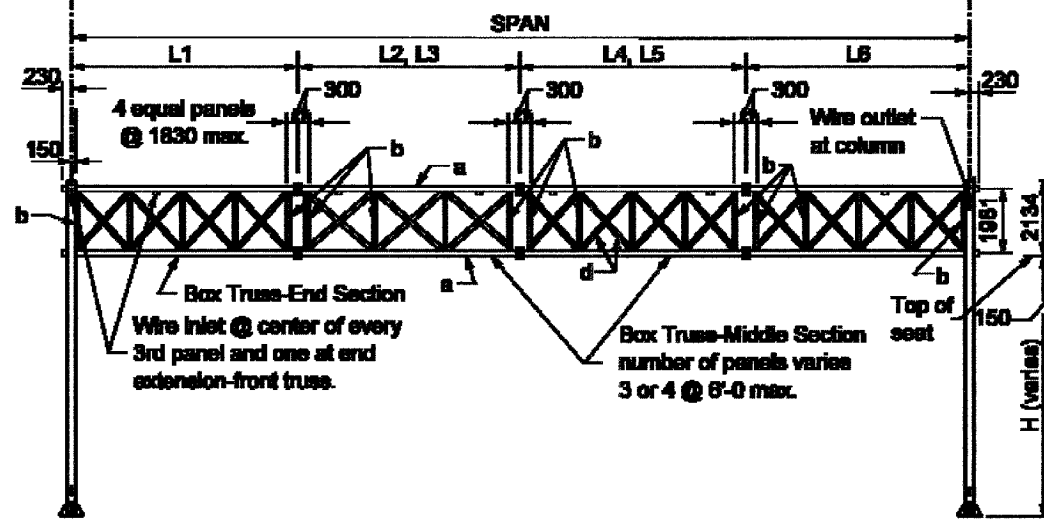
SEPTEMBER 2001

STANDARD DRAWING NO. 802-SNOH-12

	<i>/s/ Anthony L. Brumack</i> 9-01-01 REGISTERED PROFESSIONAL ENGINEER
	<i>/s/ Firms Smith</i> 9-01-01 CHECKED MECHANICAL ENGINEER



**PLAN**



**ELEVATION Facing Traffic**

**END ELEV.**

**NOTES**

1. See Standard Drawing 802-SNOH-16 for dimensions not shown.
2. Max. deviation of any chord from a straight line in any section shall be 3mm. Box truss to be max. of 10mm. out of a straight line over the entire length of the structure in the vertical plane.
3. End internal diagonal (e) shall connect to the chord where the top horizontal diagonal connects to this chord as shown in plans and end elevation.

All dimensions are in mm unless otherwise specified

<b>INDIANA DEPARTMENT OF TRANSPORTATION</b>	
<b>SIGN STRUCTURE TRUSS</b>	
<b>ALUM. DETAILS</b>	
<b>36m AND 40m SPANS</b>	
<b>MARCH 2005</b>	
<b>STANDARD DRAWING NO. 802-SNOH-15</b>	
	<i>Richard L. Wolfgram</i> 5/8/05 <small>DESIGN ENGINEER DATE</small>
	<i>Richard L. Wolfgram</i> 5/8/05 <small>CHIEF ENGINEER DATE</small>

TRUSS SCHEDULE (ALUMINUM)					See code table					CAMBER
SPAN	L1	L2, L3	L4, L5	L6	a	b	c	d	e	
36 m	6.1 m	6.1 m	6.1 m	6.1 m	EX	AY	AY	CY	AY	50 mm
40 m	7.5 m	6.1 m	6.1 m	7.5 m	EX	AY	AY	CY	AY	50 mm

END SUPPORT SCHEDULE (STEEL)				See code table				CODE	DIAMETER	CODE	WALL THICKNESS
H	f	g	h	A	B	C	E	X	Y	Z	
8.1 Max.	CZ	CZ	BX								


**NOTES:**

1. Sign area = 45 m<sup>2</sup> max.
2. Upright Material: ASTM A-53 yield stress 241 MP  
 Base plate thickness: 63.5 mm  
 Anchor Bolt: 51 mm X 1830 mm  
 Flange plate Thickness: 38.1 mm  
 Anchor Bolt: 10-25.4 mm
3. Use Footing Standard 802-SNBF-07.
- ④ Ordinate at center of assembled truss prior to dead load deflection. Allowable camber tolerance for truss is 25%.
5. See Standard Drawing 802-SNOH-15 for dimension locations.

All dimensions are in mm unless otherwise specified

**INDIANA DEPARTMENT OF TRANSPORTATION**  
**SIGN STRUCTURE TRUSS SCHEDULES**  
**36m AND 40m SPANS**  
**SEPTEMBER 2004**

**STANDARD DRAWING NO. 802-SNOH-16**

	<i>For</i> Richard L. VanChon     9-21-04 <small>REGISTERED PROFESSIONAL ENGINEER</small> DATE
	<i>For</i> Richard E. Switzer     9-21-04 <small>CHIEF STRUCTURE ENGINEER</small> DATE



TYPE OF ROADWAY	INTERSTATE AND DIVIDED HIGHWAY WITH SHOULDER, RURAL & URBAN	DIVIDED HIGHWAY WITH CURB, RURAL & URBAN	NON-DIVIDED HIGHWAY, RURAL OR CITY STREET	NON-DIVIDED HIGHWAY, URBAN
CLEARANCE				
VERTICAL: EDGE OF TRAVELED WAY PAVEMENT TO BOTTOM OF SIGN OR SIGNS	2.1 m TO 2.3 m ①	2.1 m TO 2.3 m ②	1.5 m TO 1.7 m ④②	2.1 m TO 2.3 m ②
HORIZONTAL: EDGE OF TRAVELED WAY PAVEMENT TO EDGE OF SIGN OR SIGNS	3.7m min. or 1.8m min. from the shoulder, whichever is greater	1.8m min. ③	3.7m min. or 1.8m min. from the shoulder, whichever is greater	3.7m min. or 1.8m min. from the shoulder, whichever is greater ③

**NOTES:**

- ① If a secondary sign is mounted below another sign, the secondary sign shall be installed at least 1.5m above the level of the pavement edge.
- ② The height to the bottom of a secondary sign mounted below another sign may be 0.3m less than the height specified above.
- ③ In urban areas where lateral offsets are limited, a minimum lateral offset of 0.6m may be used. A minimum offset of 0.3m from the face of the curb may be used in urban areas where sidewalk width is limited or where existing poles are close to the curb.
- ④ Where parking or pedestrian movements occur on an expected recurring basis, the clearance to the bottom of the sign shall be at least 2.1m.


All dimensions are in mm unless otherwise specified.

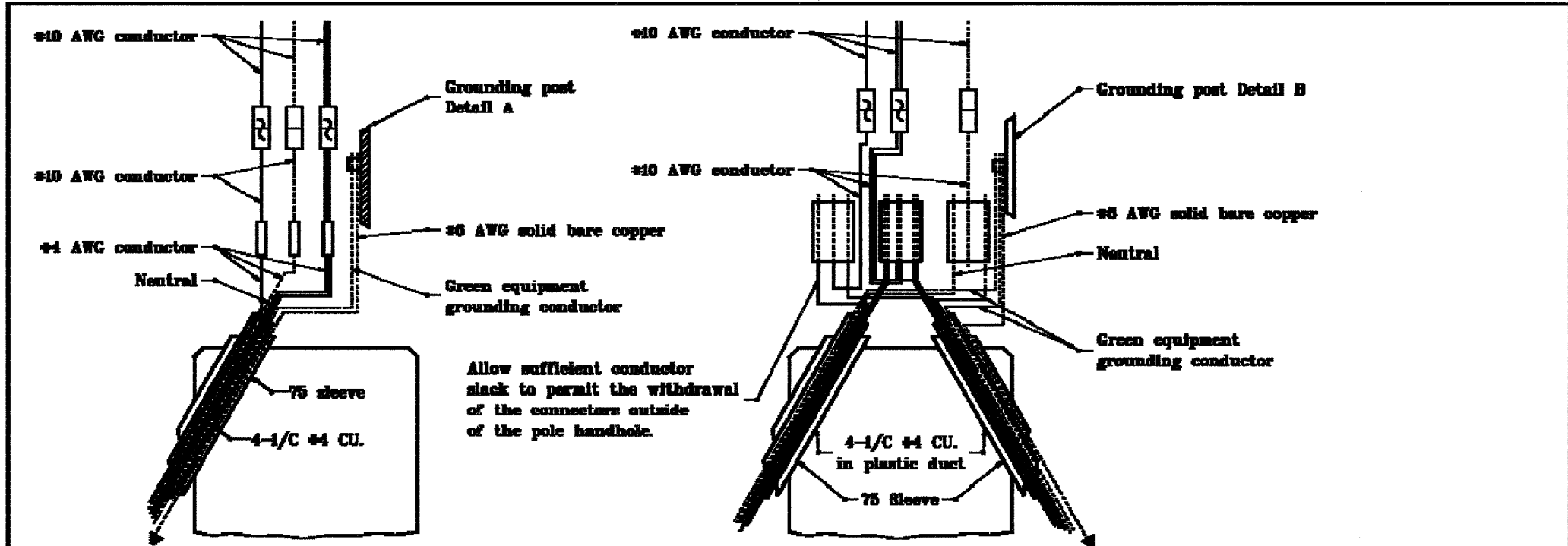
**INDIANA DEPARTMENT OF TRANSPORTATION**

**HORIZONTAL AND VERTICAL SHEET SIGN CLEARANCE**

**SEPTEMBER 2003**

**STANDARD DRAWING NO. 802-SINPL-02**

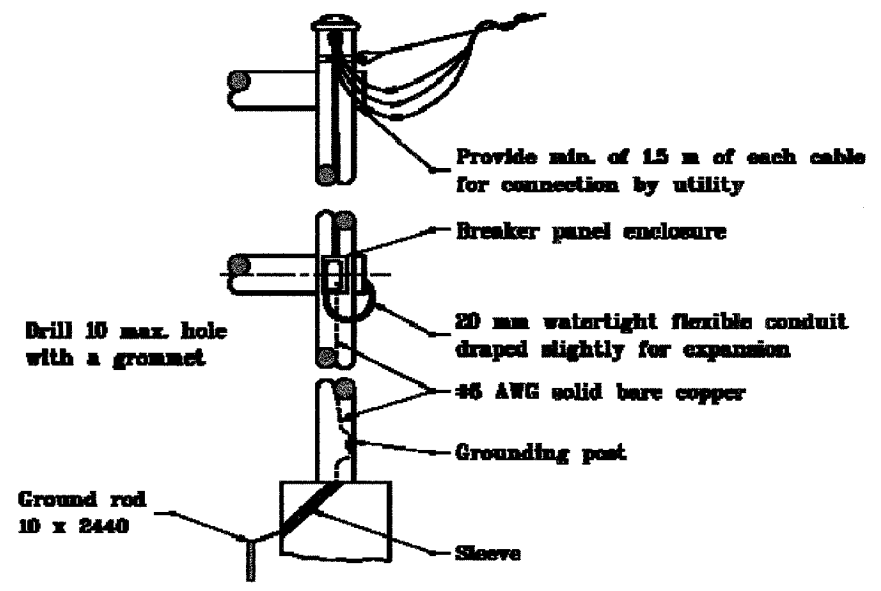
	<i>/s/ Richard L. Vogelbein</i> 09/03 <small>DESIGN ENGINEER</small> DATE
	<i>/s/ Richard L. Vogelbein</i> 09/03 <small>CHIEF ENGINEER</small> DATE



**OVERHEAD SIGN SERVICE DETAIL  
(UNDERGROUND CONNECTIONS)**

**GENERAL NOTES**

1. Breaker panel wiring to be used with bridge bracket sign illumination, or when lighting overhead sign is not part of a roadway lighting system.
2. Oxidation inhibitor shall be liberally applied to all surfaces that mate with a dissimilar material.



**OVERHEAD SIGN SERVICE DETAIL  
(AERIAL CONNECTION)**

**LEGEND**

- Self insulated splicer (Insulating Link)
- Un-fused connector
- Fused connector
- Compression connector

All dimensions are in mm unless otherwise specified.

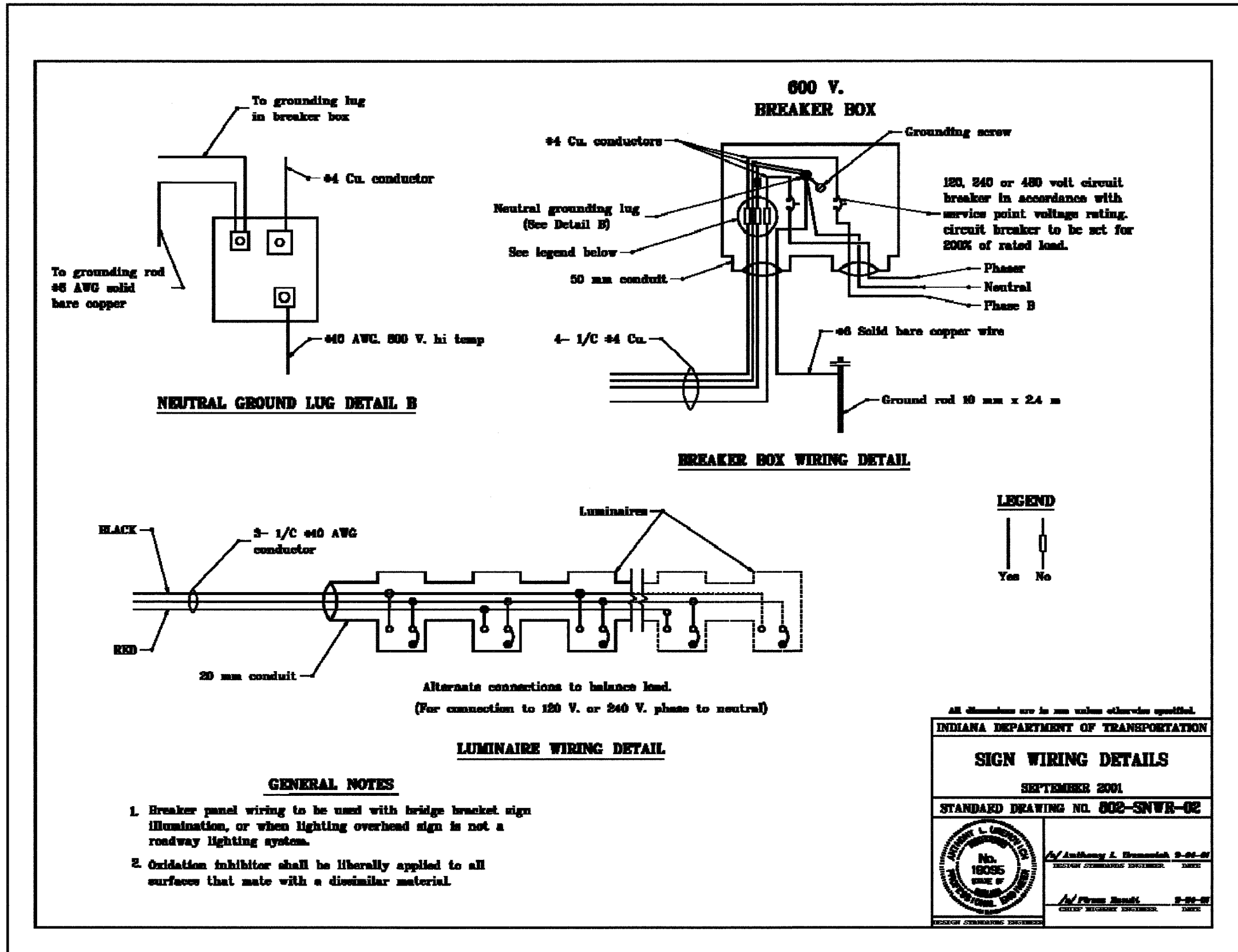
**INDIANA DEPARTMENT OF TRANSPORTATION**

**SIGN WIRING DETAILS**

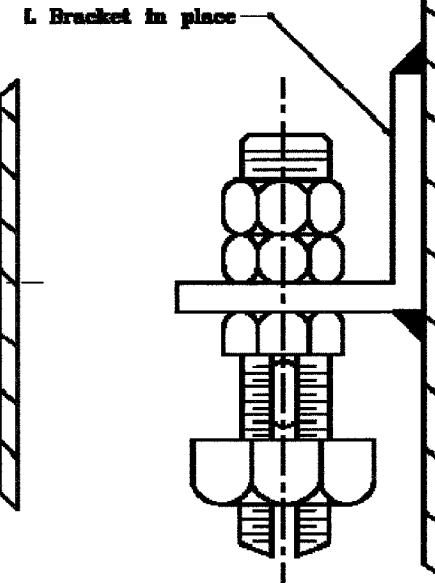
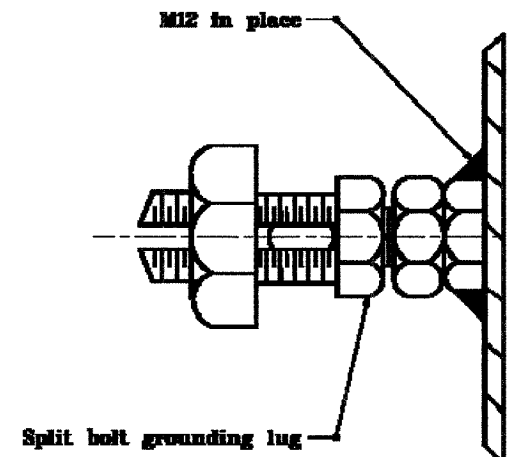
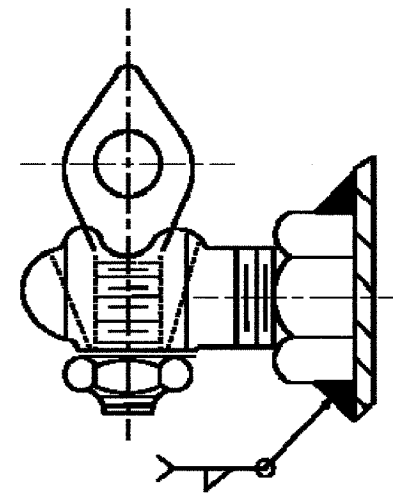
SEPTEMBER 2001

STANDARD DRAWING NO. 502-SNWR-01

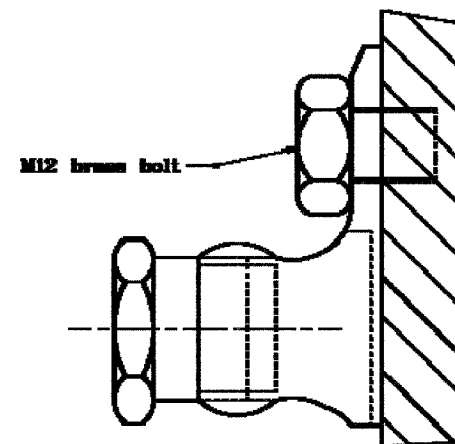
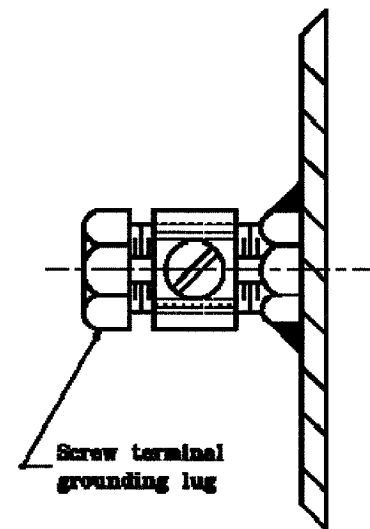
	<i>/s/ Anthony L. Brumback</i> 9-01-01 DESIGN ENGINEER
	<i>/s/ Fern Bunk</i> 9-01-01 DESIGN ENGINEER



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	431
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



**GENERAL NOTES**  
 1. Oxidation inhibitor shall be liberally applied to all surfaces that mate with a dissimilar material.



**ALTERNATIVE GROUNDING POSTS DETAIL A**

All dimensions are in mm unless otherwise specified.

**INDIANA DEPARTMENT OF TRANSPORTATION**

**SIGN WIRING DETAILS**

SEPTEMBER 2001

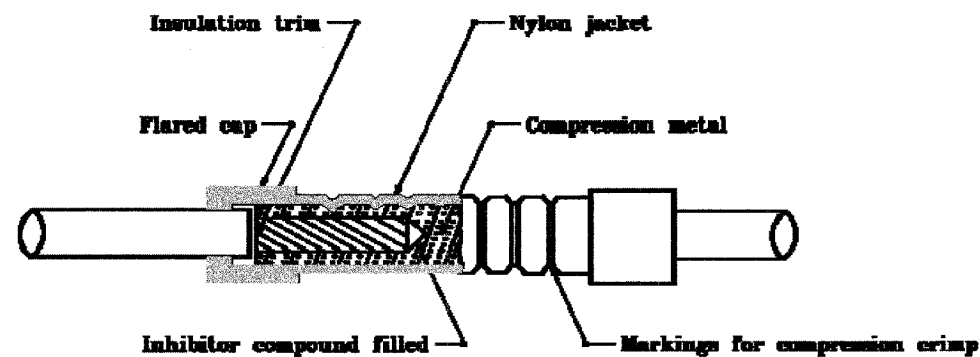
STANDARD DRAWING NO. 802-SNWR-03

	<i>/s/ Anthony L. Dymowski</i> 9-01-01 DESIGN STANDARD ENGINEER DATE
	<i>/s/ Bruce Smith</i> 9-01-01 CHIEF MECHANICAL ENGINEER DATE

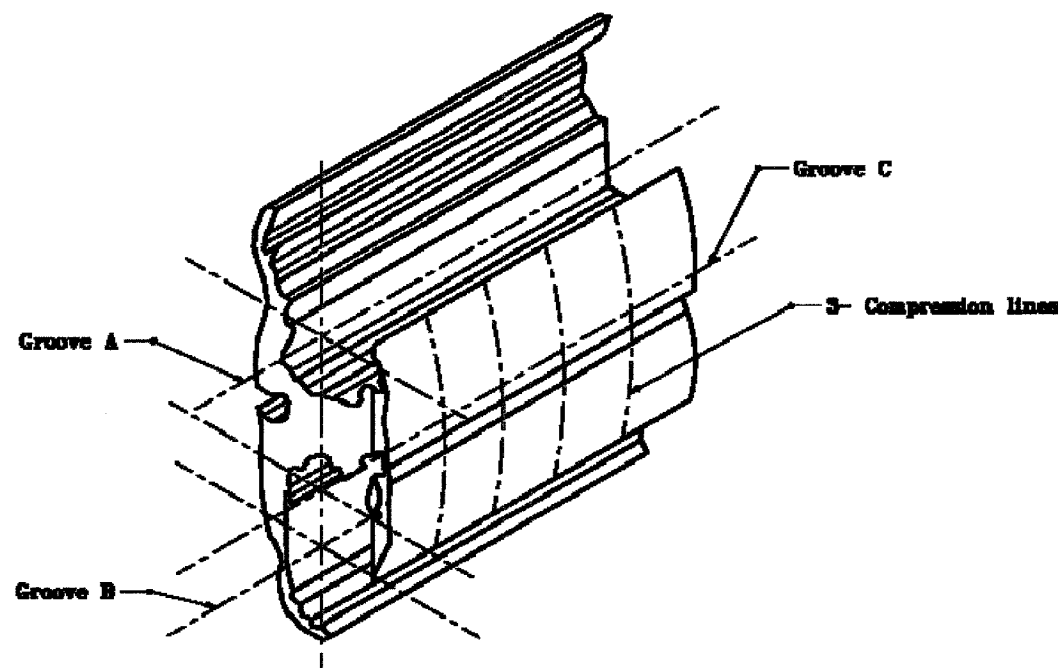
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80/94	2626.2-R-2	COOK/LAKE	1207	432
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

**GENERAL NOTES**

1. Oxidation inhibitor shall be liberally applied to all surfaces that mate with a dissimilar material.
2. Grooves A & B to receive 1 #4 Cu. conductor.
3. Groove C to receive 1 #10 conductor.
4. Use of inhibiting compound is mandatory for all connections.
6. Multiple compression fitting shall be covered with snap-on fiber or plastic covers. Taping shall not be permitted.



**INSULATING LINK DETAIL**



**MULTIPLE COMPRESSION FITTING DETAIL**

All dimensions are in mm unless otherwise specified.

**INDIANA DEPARTMENT OF TRANSPORTATION**

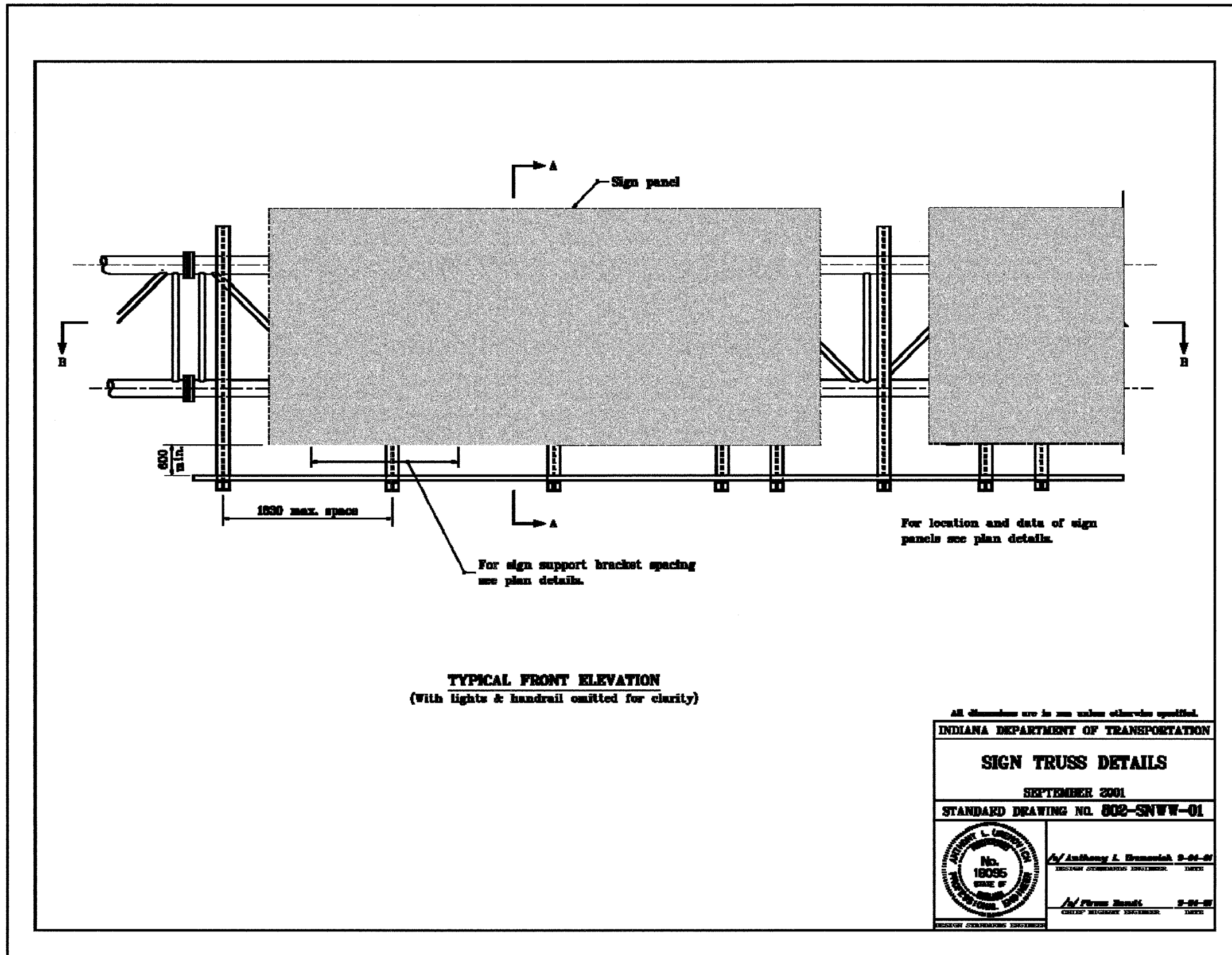
**SIGN WIRING DETAILS**

SEPTEMBER 2001

STANDARD DRAWING NO. 802-SNWR-04

	<i>/s/ Anthony L. Brannick</i> 2-01-01 REGISTERED PROFESSIONAL ENGINEER INDEP
	<i>/s/ Frank Smith</i> 2-01-01 CHIEF ELECTRICAL ENGINEER INDEP

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	433
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**

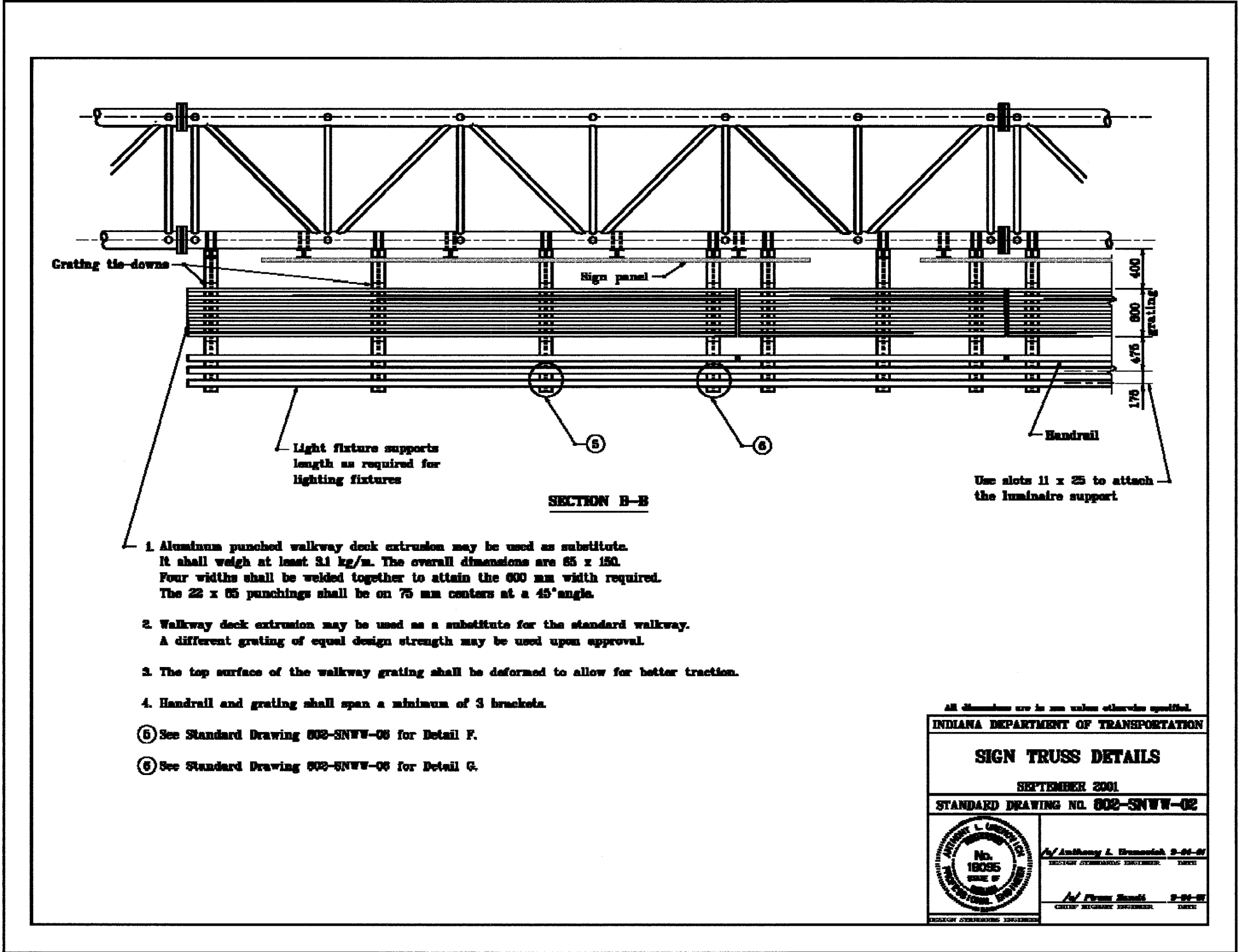
**SIGN TRUSS DETAILS**

SEPTEMBER 2001

STANDARD DRAWING NO. 802-SNW-01

	<i>/s/ Anthony L. Brumack</i> 9-01-01 <small>REGISTERED PROFESSIONAL ENGINEER</small>
	<i>/s/ Ferns Smith</i> 9-01-01 <small>REGISTERED PROFESSIONAL ENGINEER</small>

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	434
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



**SECTION B-B**

1. Aluminum punched walkway deck extrusion may be used as substitute. It shall weigh at least 3.1 kg/m. The overall dimensions are 85 x 150. Four widths shall be welded together to attain the 600 mm width required. The 22 x 65 punchings shall be on 75 mm centers at a 45° angle.
2. Walkway deck extrusion may be used as a substitute for the standard walkway. A different grating of equal design strength may be used upon approval.
3. The top surface of the walkway grating shall be deformed to allow for better traction.
4. Handrail and grating shall span a minimum of 3 brackets.

- 5 See Standard Drawing 802-SNWW-06 for Detail F.
- 6 See Standard Drawing 802-SNWW-06 for Detail G.

All dimensions are in mm unless otherwise specified.

**INDIANA DEPARTMENT OF TRANSPORTATION**

**SIGN TRUSS DETAILS**

SEPTEMBER 2001

STANDARD DRAWING NO. 802-SNWW-02

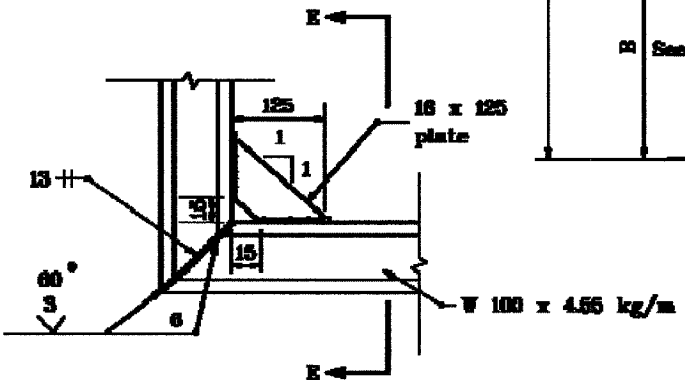
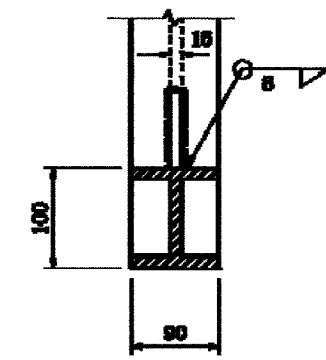
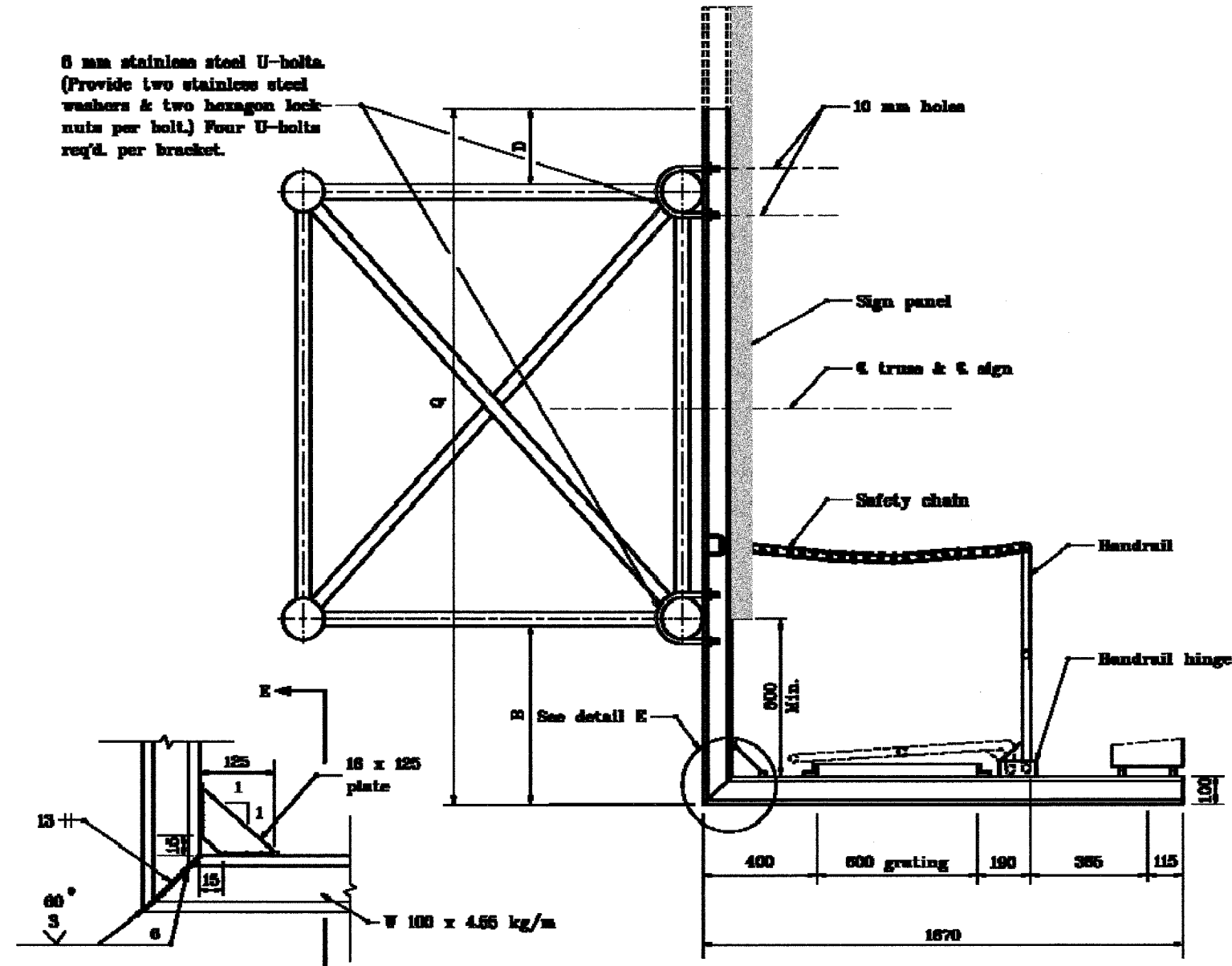
	<i>Anthony L. Brunstich</i> 9-01-01 <small>DESIGN ENGINEER</small>
	<i>Frank Smith</i> 9-01-01 <small>DESIGN ENGINEER</small>

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	435
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

**GENERAL NOTES**

1. Dimensions B, D and Q to be determined by contractor to fit signs involved.
2. Sign panel shall be placed symmetrically about C truss & sign.

6 mm stainless steel U-bolts.  
(Provide two stainless steel washers & two hexagon lock nuts per bolt.) Four U-bolts req'd. per bracket.



All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION

**SIGN TRUSS DETAILS**

SEPTEMBER 2001

STANDARD DRAWING NO. 602-SNWW-03

*Anthony L. Brumback* 2-01-01  
REGISTERED PROFESSIONAL ENGINEER

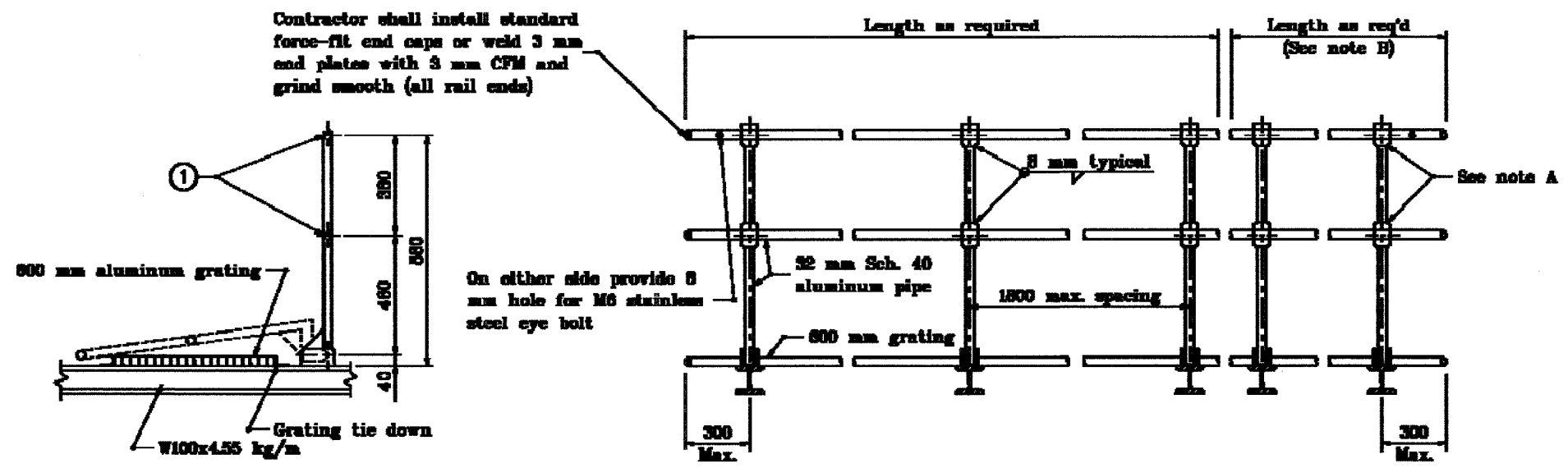
*Frank Bondi* 2-01-01  
REGISTERED PROFESSIONAL ENGINEER



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	436
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62114	INDOT DES. NO. 0100987			

**GENERAL NOTES**

- ① Horizontal rail member shall be continuous thru fitting. Provide 12 mm hole in fitting for M10 bolt. Field drill 12 mm hole in horizontal rail member. Provide M10 washer & M10 locknut for bolt.
2. Rail and grating shall span a minimum of three brackets.



**SIDE ELEVATION**

**FRONT ELEVATION**

All dimensions are in mm unless otherwise specified.

**INDIANA DEPARTMENT OF TRANSPORTATION**

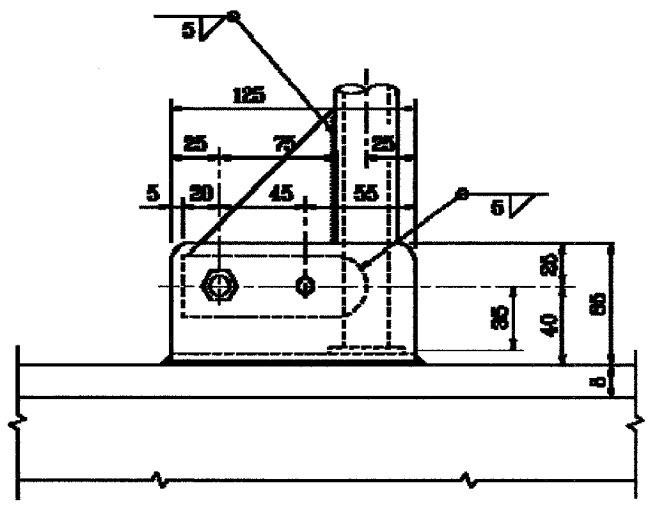
**SIGN WALKWAY/  
HANDRAIL DETAIL**

SEPTEMBER 2001

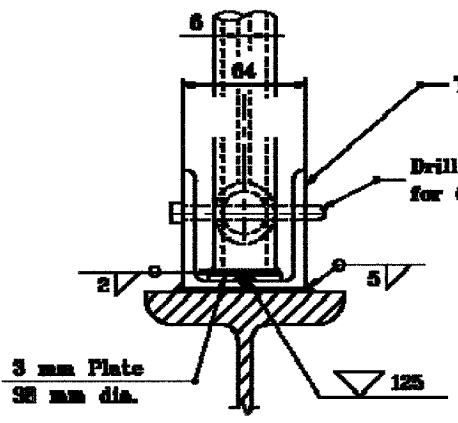
STANDARD DRAWING NO. 602-SNWW-04

	<i>/s/ Anthony L. Brumback</i> 9-01-01 <small>REGISTERED PROFESSIONAL ENGINEER</small>
	<i>/s/ Frank Brant</i> 9-01-01 <small>REGISTERED PROFESSIONAL ENGINEER</small>

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	437
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



**SIDE ELEVATION**

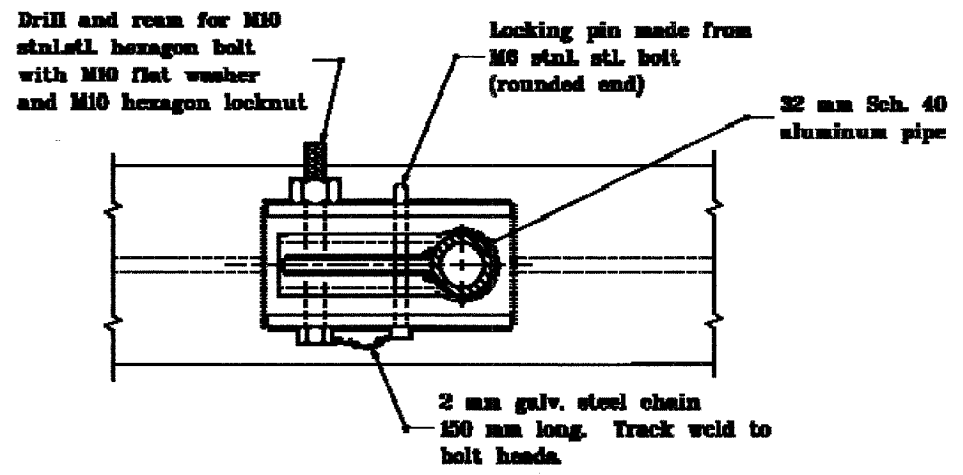


**FRONT ELEVATION**

Two - L 64 x 32 x 6.4, 125 mm long  
 Drill 6 mm hole for 6 mm locking pin

3 mm Plate  
 98 mm dia.

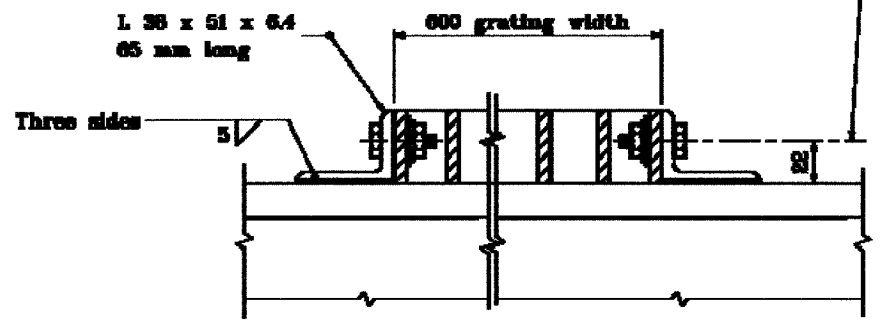
Field drill 12 mm holes for M10 x 25 stnl. stl. hexagon bolts with M10 flat washer, M10 lock washer and M10 hexagon nut.



**PLAN**

**DETAILS OF HANDRAIL HINGE**

Drill and ream for M10 stnl. stl. hexagon bolt with M10 flat washer and M10 hexagon locknut  
 Locking pin made from M6 stnl. stl. bolt (rounded end)  
 32 mm Sch. 40 aluminum pipe  
 2 mm galv. steel chain 150 mm long. Track weld to bolt heads.



**GRATING TIE DOWN**  
 (Two req'd per walkway bracket)

L 38 x 51 x 6.4  
 65 mm long  
 600 grating width

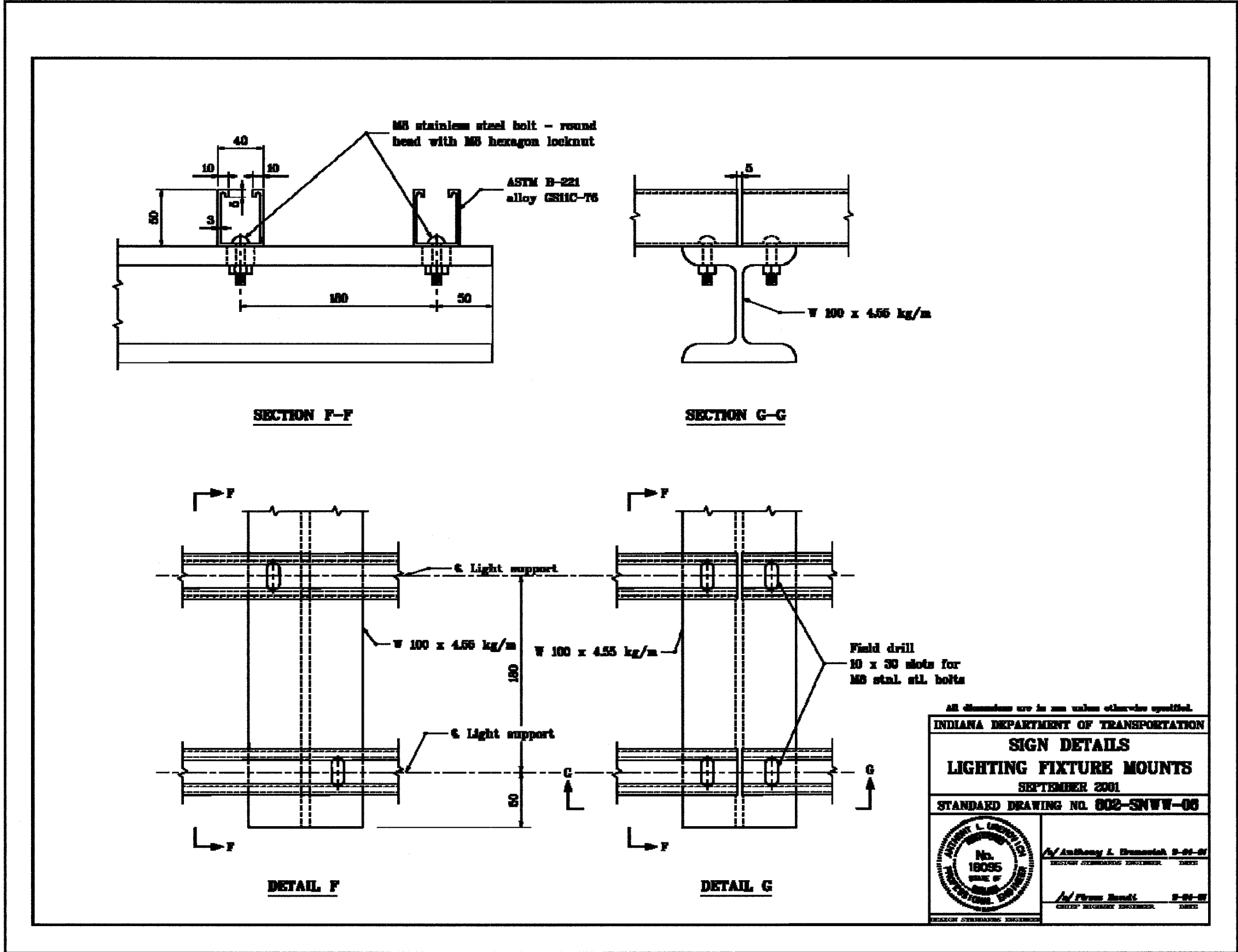
Three sides

All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION  
**SIGN WALKWAY  
 HANDRAIL DETAILS**  
 SEPTEMBER 2001  
 STANDARD DRAWING NO. 602-SNWW-05

	<i>Anthony L. Emanuel</i> 9-01-01 DESIGN SYMBOLIC ENGINEER DATE
	<i>Firm Name</i> 9-01-01 CHECK MECHANICAL ENGINEER DATE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	438
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

**SIGN DETAILS**

**LIGHTING FIXTURE MOUNTS**

SEPTEMBER 2001

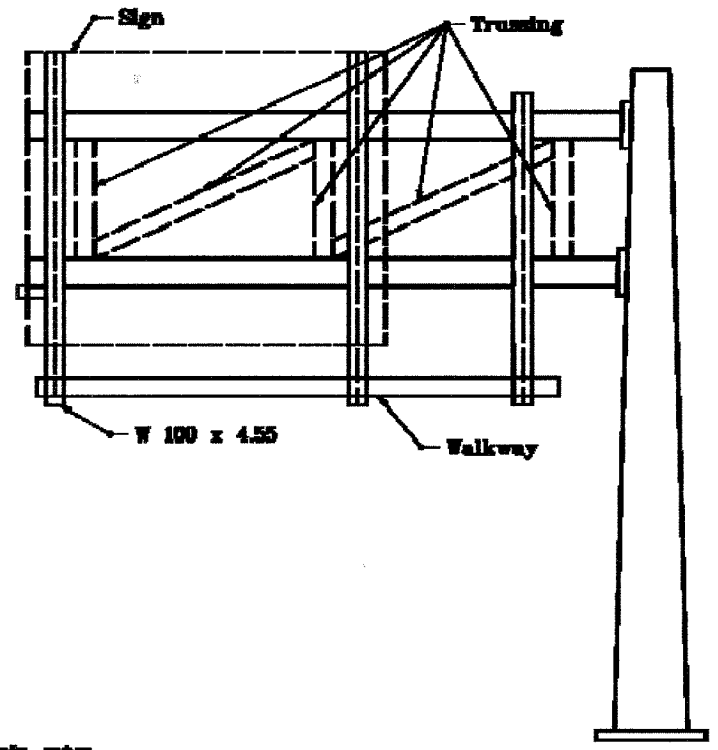
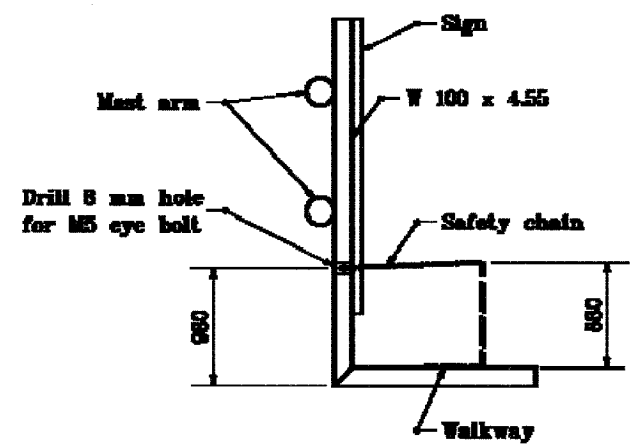
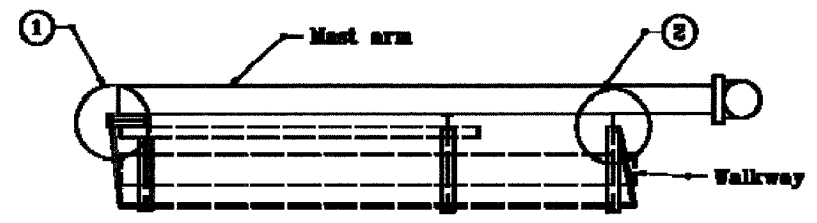
STANDARD DRAWING NO. 802-SNWW-06

	<i>/s/ Anthony J. Brunerich</i> 9-01-01 REGISTERED PROFESSIONAL ENGINEER
	<i>/s/ Perry Reed</i> 9-01-01 REGISTERED PROFESSIONAL ENGINEER

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	439
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			

**GENERAL NOTE**

- ① See Standard Drawing 802-SNWW-06 for Detail A.
- ② See Standard Drawing 802-SNWW-06 for Detail B.



**CHAIN SUPPORT FOR  
DOUBLE MASTARM CANTILEVER  
(BOX TRUSS SIMILAR)**

All dimensions are in mm unless otherwise specified.

**INDIANA DEPARTMENT OF TRANSPORTATION**

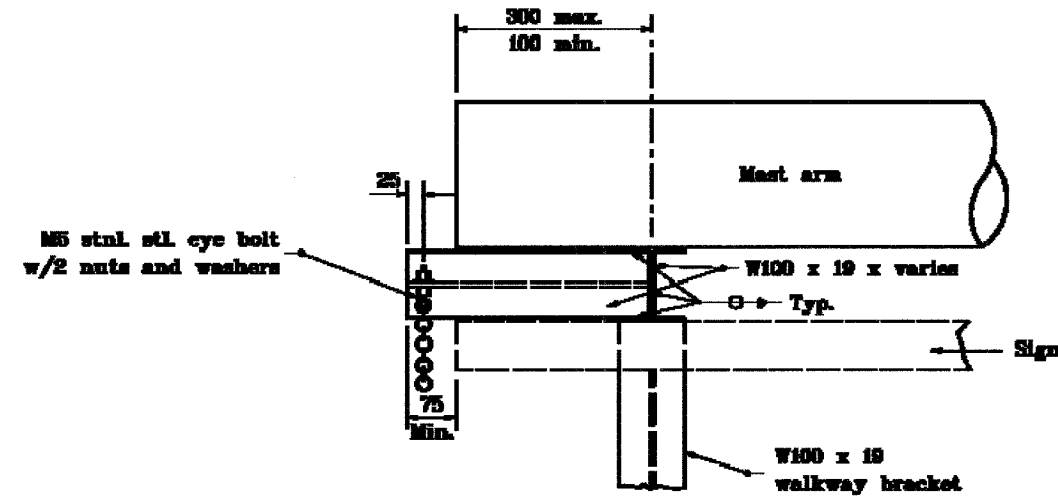
**SIGN WALKWAY DETAILS**

SEPTEMBER 2001

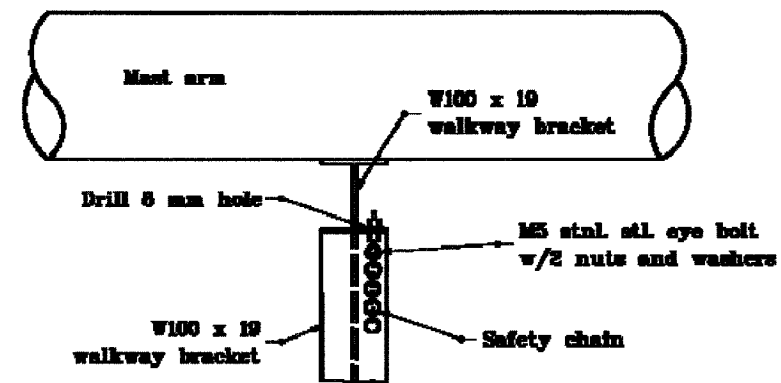
STANDARD DRAWING NO. 802-SNWW-07

	<i>/s/ Anthony L. Dransnik</i> 9-01-01 <small>REGISTERED PROFESSIONAL ENGINEER</small>
	<i>/s/ Steve Smith</i> 9-01-01 <small>REGISTERED PROFESSIONAL ENGINEER</small>

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	440
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



DETAIL A



DETAIL B

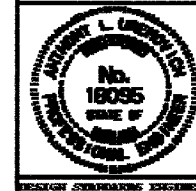
All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION

**SIGN WALKWAY DETAILS**

SEPTEMBER 2001

STANDARD DRAWING NO. 602-SNWW-06



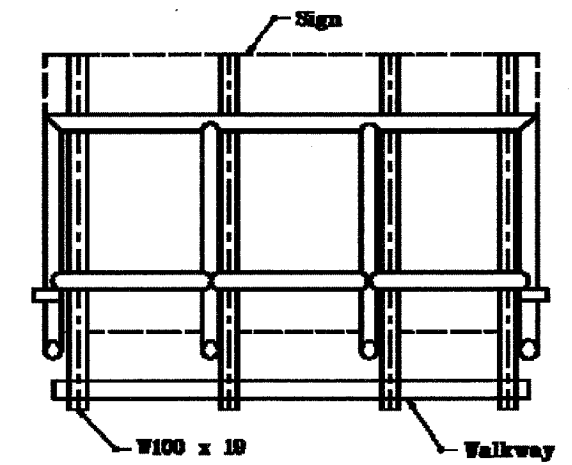
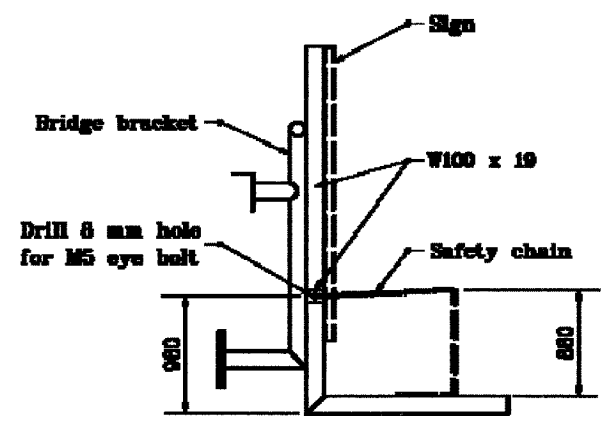
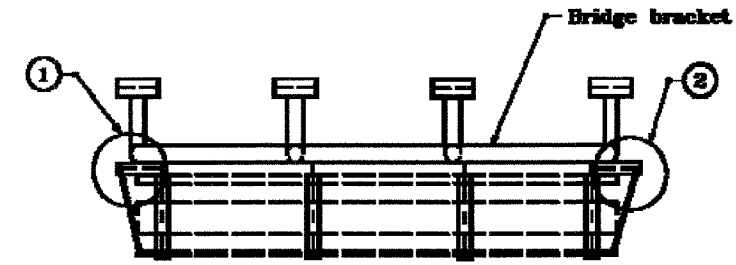
*/s/ Anthony L. Dumasick* 9-01-01  
DESIGN SIGNATURE ENGINEER

*/s/ Steve Smith* 9-01-01  
CHECK SIGNATURE ENGINEER

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	441
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62114		INDOT DES. NO. 0100987		

**GENERAL NOTES**

- ① See Standard Drawing 602-SNWW-11 for Detail C.
- ② See Standard Drawing 602-SNWW-11 for Detail D.



**CHAIN SUPPORT FOR  
BRIDGE BRACKET**

All dimensions are in mm unless otherwise specified.

**INDIANA DEPARTMENT OF TRANSPORTATION**

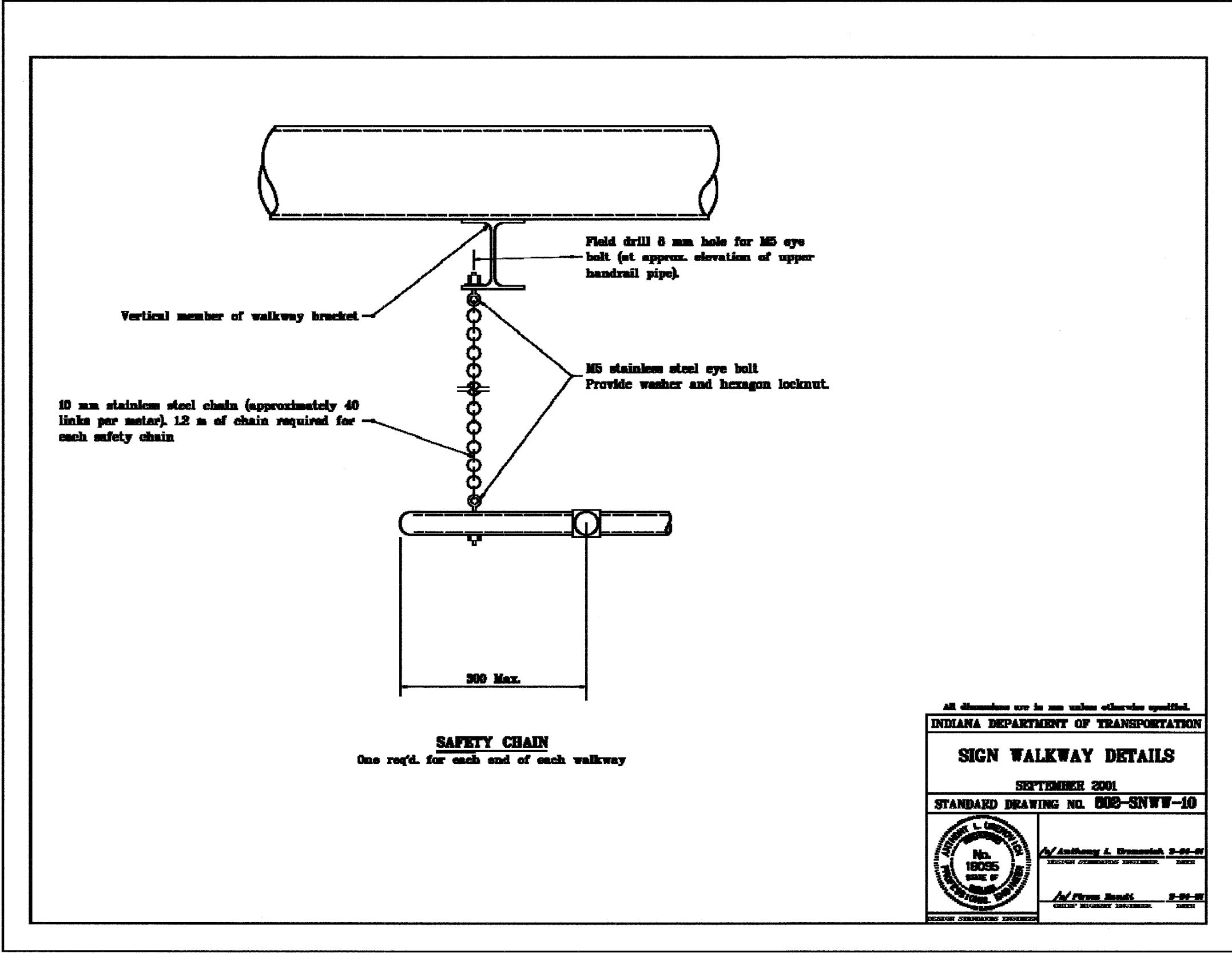
**SIGN WALKWAY DETAILS**

SEPTEMBER 2001

STANDARD DRAWING NO. 602-SNWW-08

	<i>/s/ Anthony L. Driscoll</i> 9-01-01 REGISTERED PROFESSIONAL ENGINEER    DATE
	<i>/s/ Frank Smith</i> 9-01-01 CHIEF REGISTERED ENGINEER    DATE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	442
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



**SAFETY CHAIN**  
 One req'd. for each end of each walkway

All dimensions are in mm unless otherwise specified.

**INDIANA DEPARTMENT OF TRANSPORTATION**

**SIGN WALKWAY DETAILS**

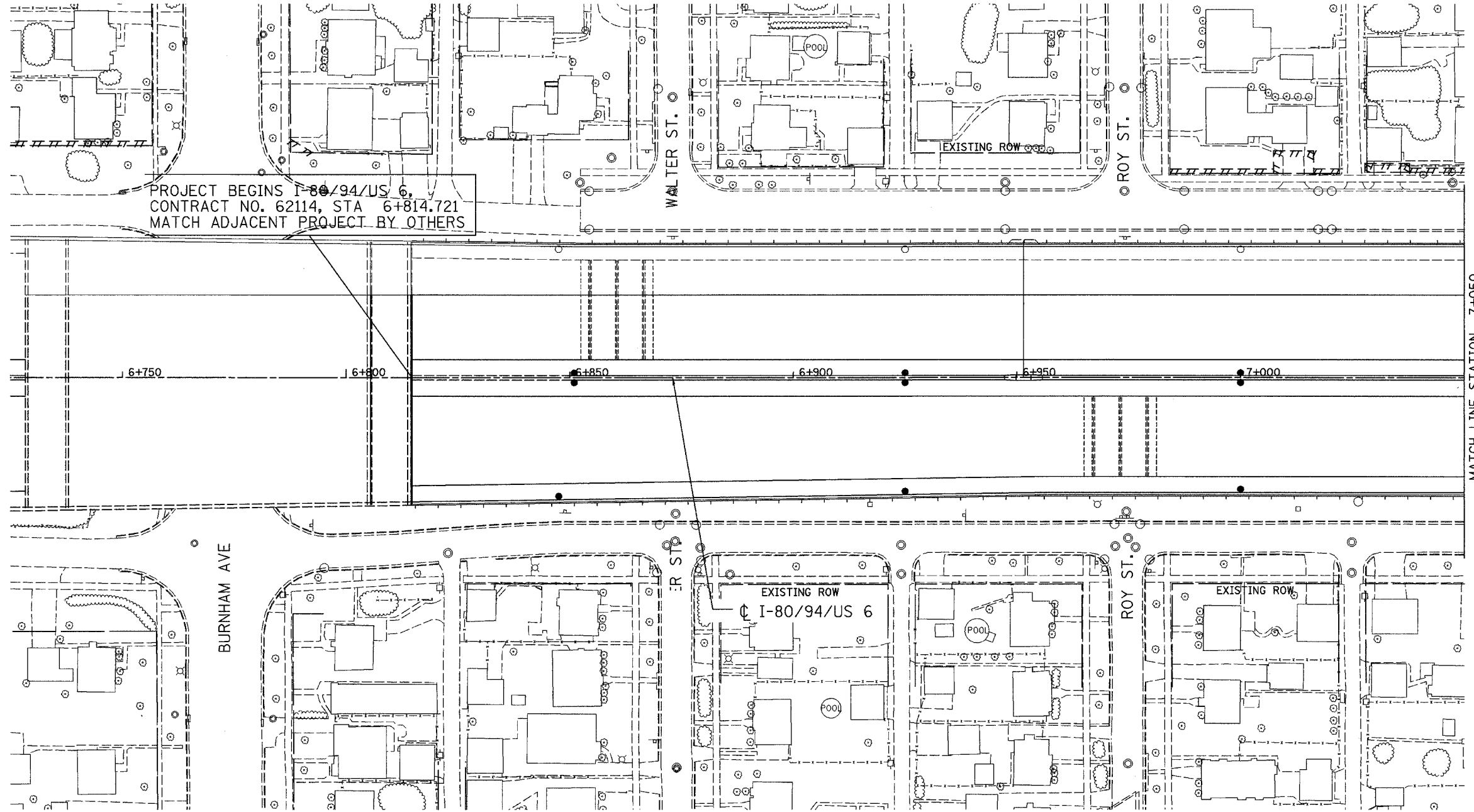
SEPTEMBER 2001

STANDARD DRAWING NO. 502-SNWW-10

	<b>/s/ Anthony L. Dransfield 9-01-01</b> <small>REGISTERED PROFESSIONAL ENGINEER</small>
	<b>/s/ Forum Smith 9-01-01</b> <small>REGISTERED PROFESSIONAL ENGINEER</small>

ALL DIMENSIONS IN METERS EXCEPT PAVEMENT ITEMS AND UNLESS NOTED OTHERWISE

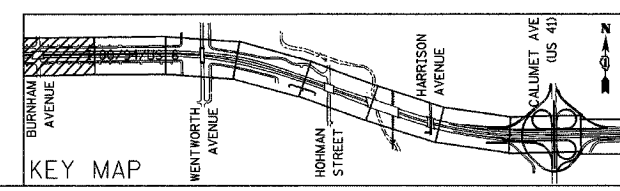
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	443
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



NOTE: CONTRACTOR RESPONSIBLE FOR RESTORATION OF EXISTING LANDSCAPING IN THIS AREA.

**LEGEND:**

	SEEDING CL 2A WITH TOPSOIL FURNISH AND PLACE, 150 mm & EROSION CONTROL BLANKET
	SEEDING CL 2A & EROSION CONTROL BLANKET
	SODDING, SALT TOLERANT WITH TOPSOIL FURNISH AND PLACE, 300 mm & COMPOST FURNISH AND PLACE, 100MM



REVISIONS	
NAME	DATE

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

STA. 6 + 814.721 TO STA. 7 + 050

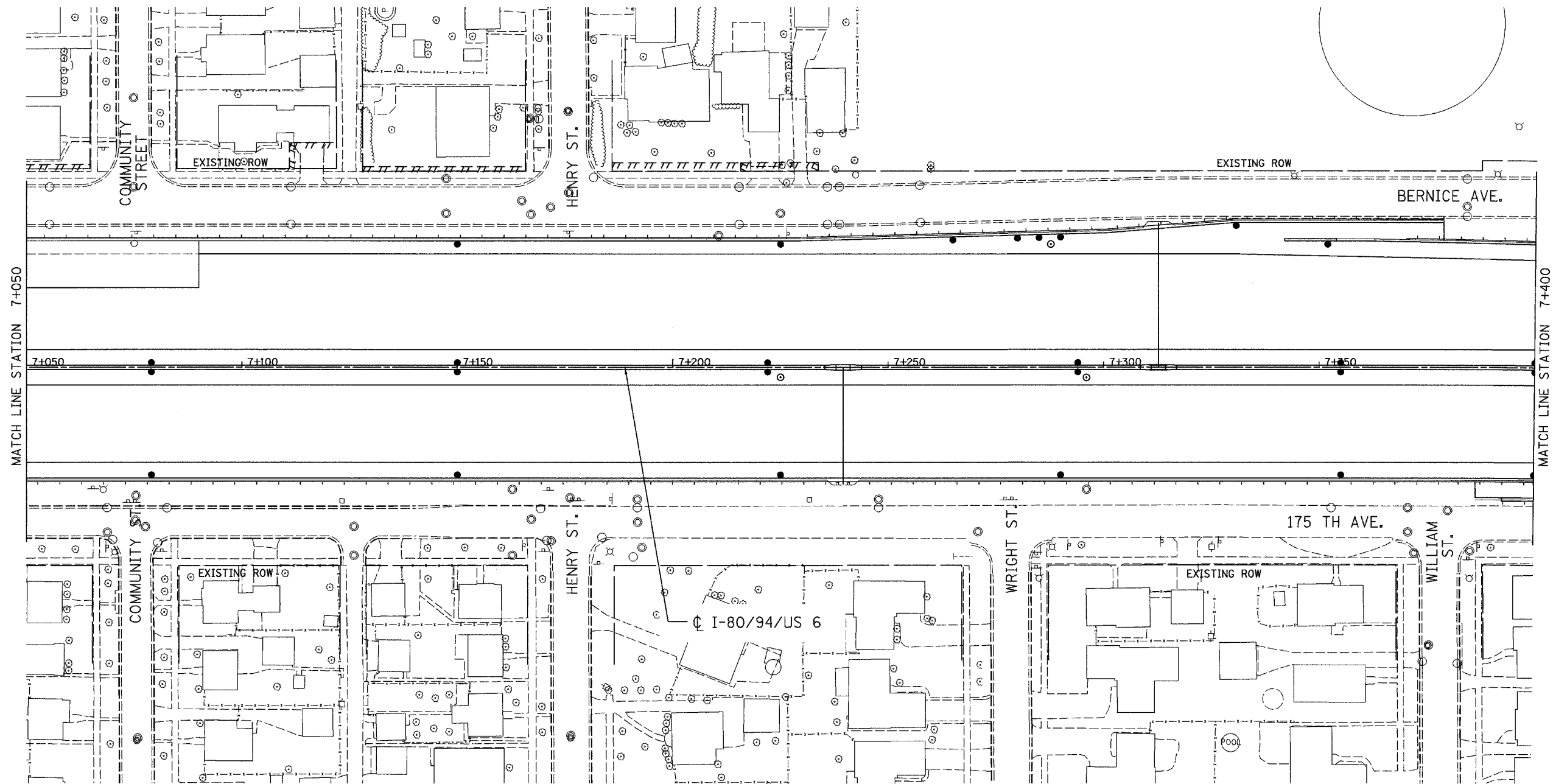
SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE

**AMERICAN**  
 CONSULTING ENGINEERS



ALL DIMENSIONS IN METERS EXCEPT PAVEMENT ITEMS AND UNLESS NOTED OTHERWISE

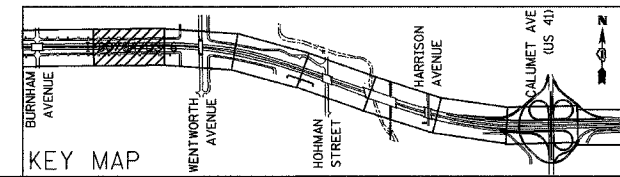
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	444
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



NOTE: CONTRACTOR RESPONSIBLE FOR RESTORATION OF EXISTING LANDSCAPING IN THIS AREA.

**LEGEND:**

	SEEDING CL 2A WITH TOPSOIL FURNISH AND PLACE, 150 mm & EROSION CONTROL BLANKET
	SEEDING CL 2A & EROSION CONTROL BLANKET
	SODDING, SALT TOLERANT WITH TOPSOIL FURNISH AND PLACE, 300 mm & COMPOST FURNISH AND PLACE, 100MM

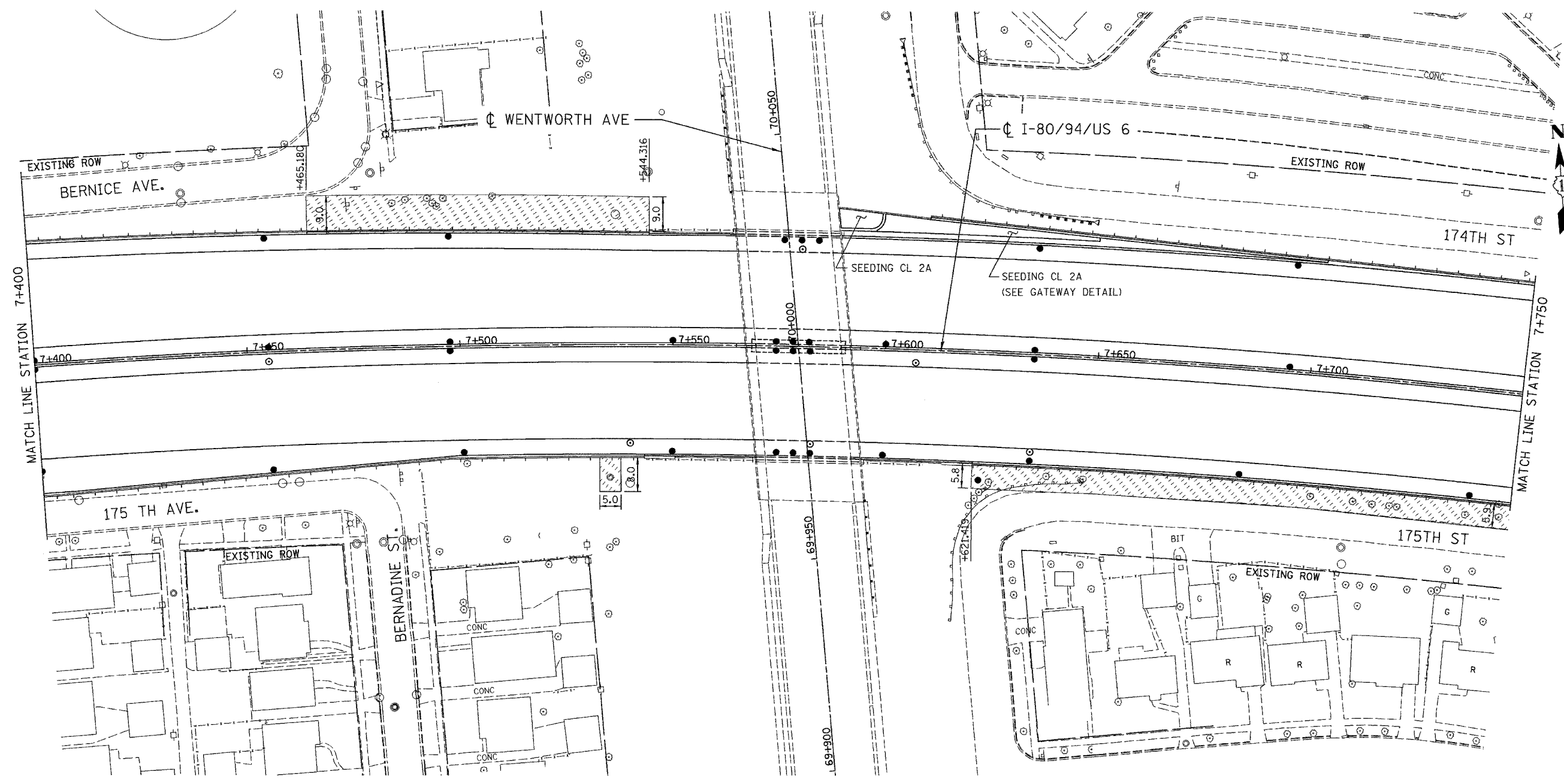


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**LANDSCAPE PLAN**  
 STA. 7+050 TO STA. 7+400  
 SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE

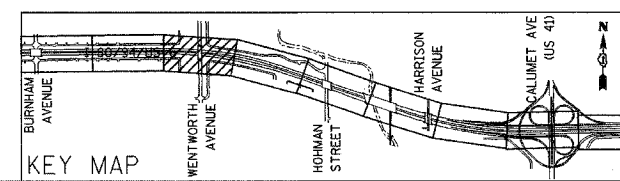
ALL DIMENSIONS IN METERS EXCEPT PAVEMENT ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE. 80/94	SECTION 2626.2-R-2	COUNTY COOK/LAKE	TOTAL SHEETS 1207	SHEET NO. 445
STA. 7+400		TO STA. 7+750		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



**LEGEND:**

	SEEDING CL 2A WITH TOPSOIL FURNISH AND PLACE, 150 mm & EROSION CONTROL BLANKET
	SEEDING CL 2A & EROSION CONTROL BLANKET
	SODDING, SALT TOLERANT WITH TOPSOIL FURNISH AND PLACE, 300 mm & COMPOST FURNISH AND PLACE, 100MM



REVISIONS	
NAME	DATE

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

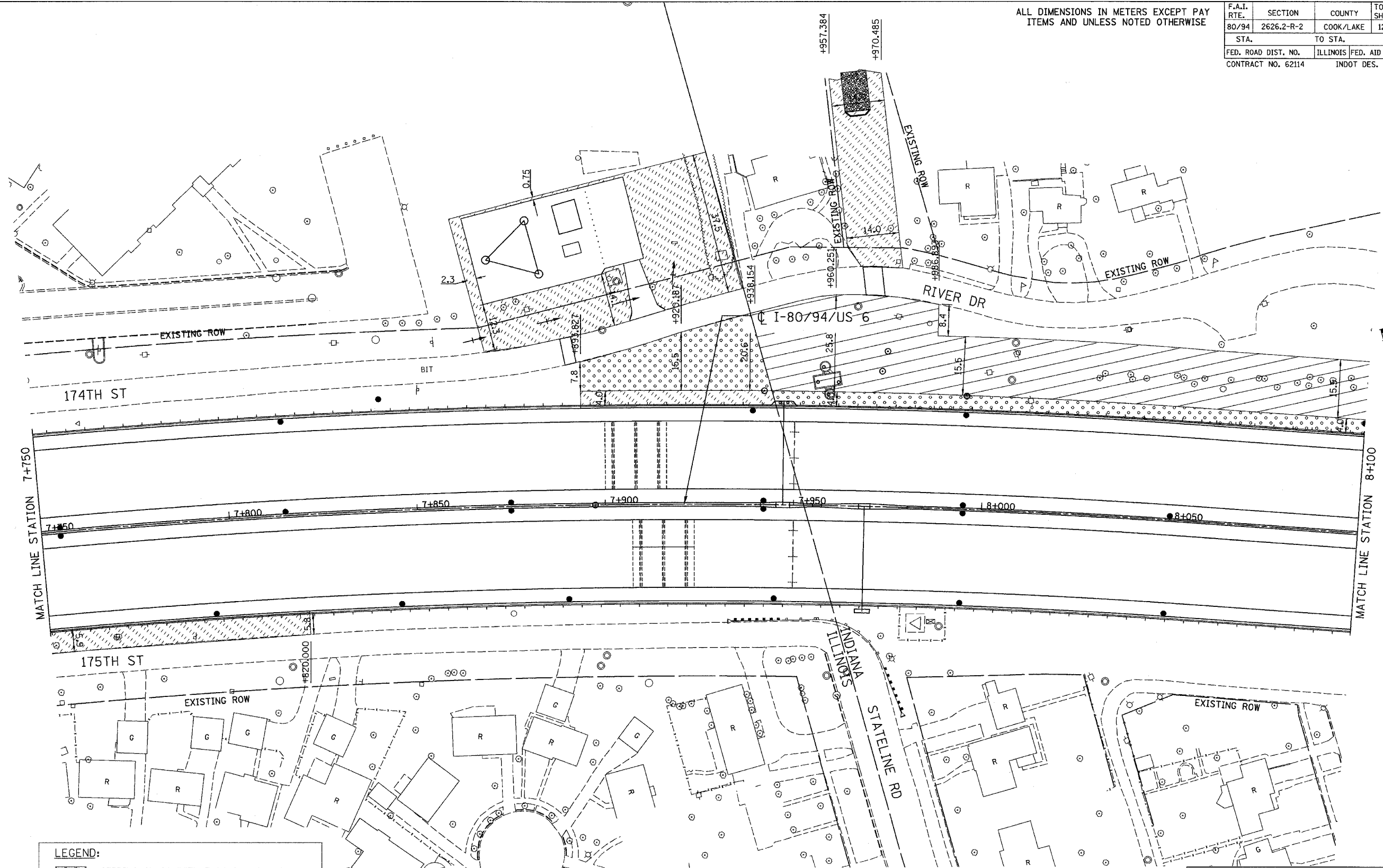
**STA. 7+400 TO STA. 7+750**

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

**AMERICAN**  
 CONSULTING ENGINEERS

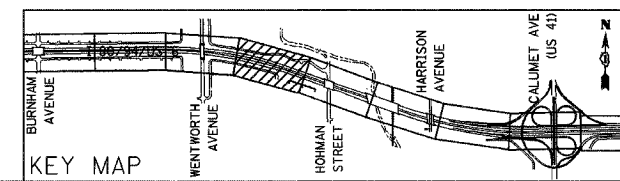
ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE. 80/94	SECTION 2626.2-R-2	COUNTY COOK/LAKE	TOTAL SHEETS 1207	SHEET NO. 446
STA. TO STA.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62114		INDOT DES. NO. 0100987		



**LEGEND:**

	SEEDING CL 2A WITH TOPSOIL FURNISH AND PLACE, 150 mm & EROSION CONTROL BLANKET
	SEEDING CL 2A & EROSION CONTROL BLANKET
	SODDING, SALT TOLERANT WITH TOPSOIL FURNISH AND PLACE, 300 mm & COMPOST FURNISH AND PLACE, 100MM

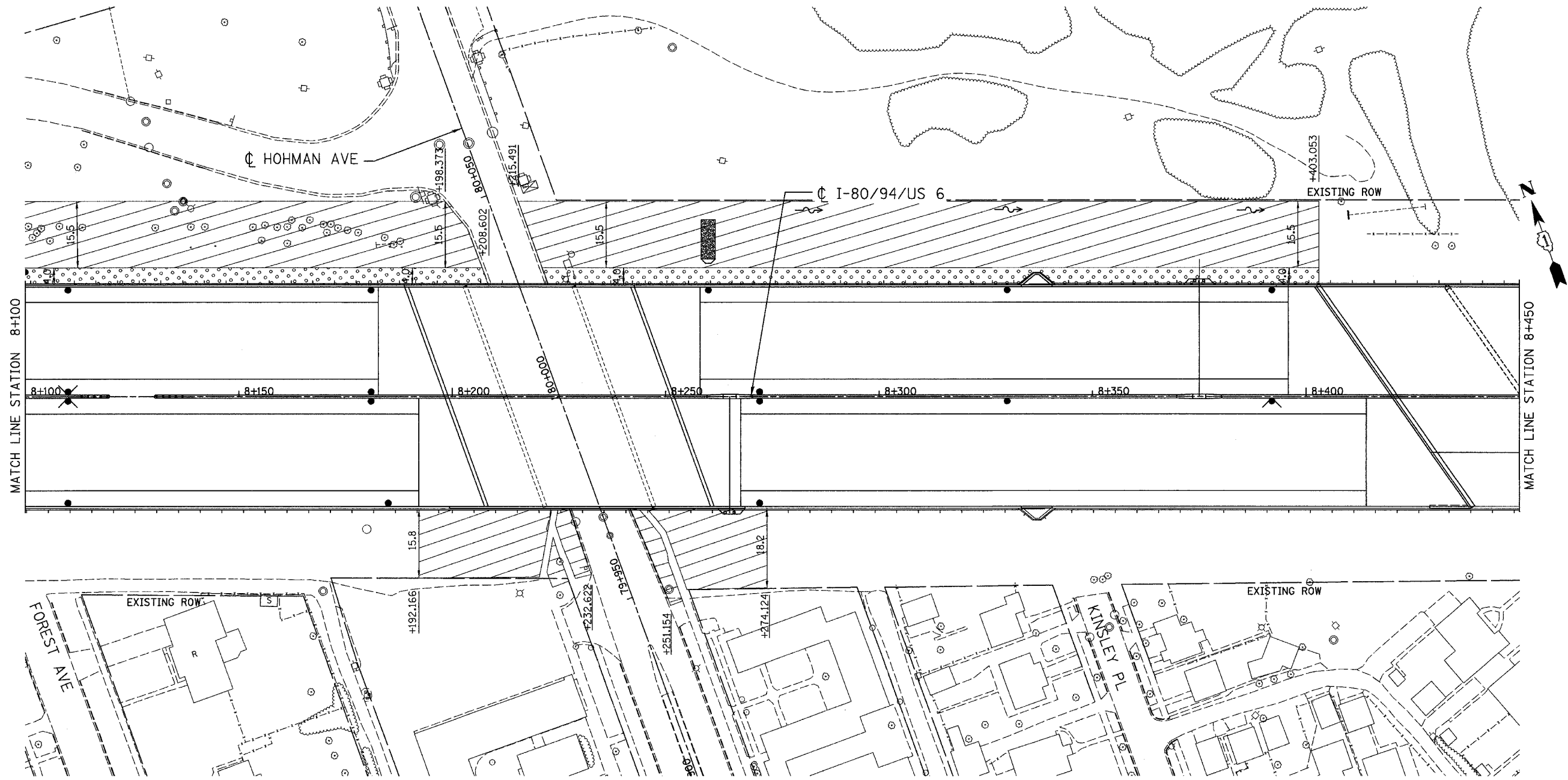


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**LANDSCAPE PLAN**  
 STA. 7+750 TO STA. 8+100  
 SCALE 1:500 DRAWN BY ACE/CAD  
 DATE 07/05 CHECKED BY TAE

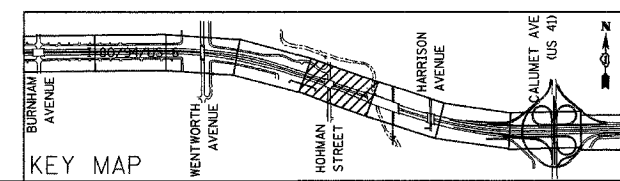
ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE. 80/94	SECTION 2626.2-R-2	COUNTY COOK/LAKE	TOTAL SHEETS 1207	SHEET NO. 447
STA. 80+000 TO STA. 80+450		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 62114 INDOT DES. NO. 0100987		



**LEGEND:**

	SEEDING CL 2A WITH TOPSOIL FURNISH AND PLACE, 150 mm & EROSION CONTROL BLANKET
	SEEDING CL 2A & EROSION CONTROL BLANKET
	SODDING, SALT TOLERANT WITH TOPSOIL FURNISH AND PLACE, 300 mm & COMPOST FURNISH AND PLACE, 100MM



REVISIONS	
NAME	DATE

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

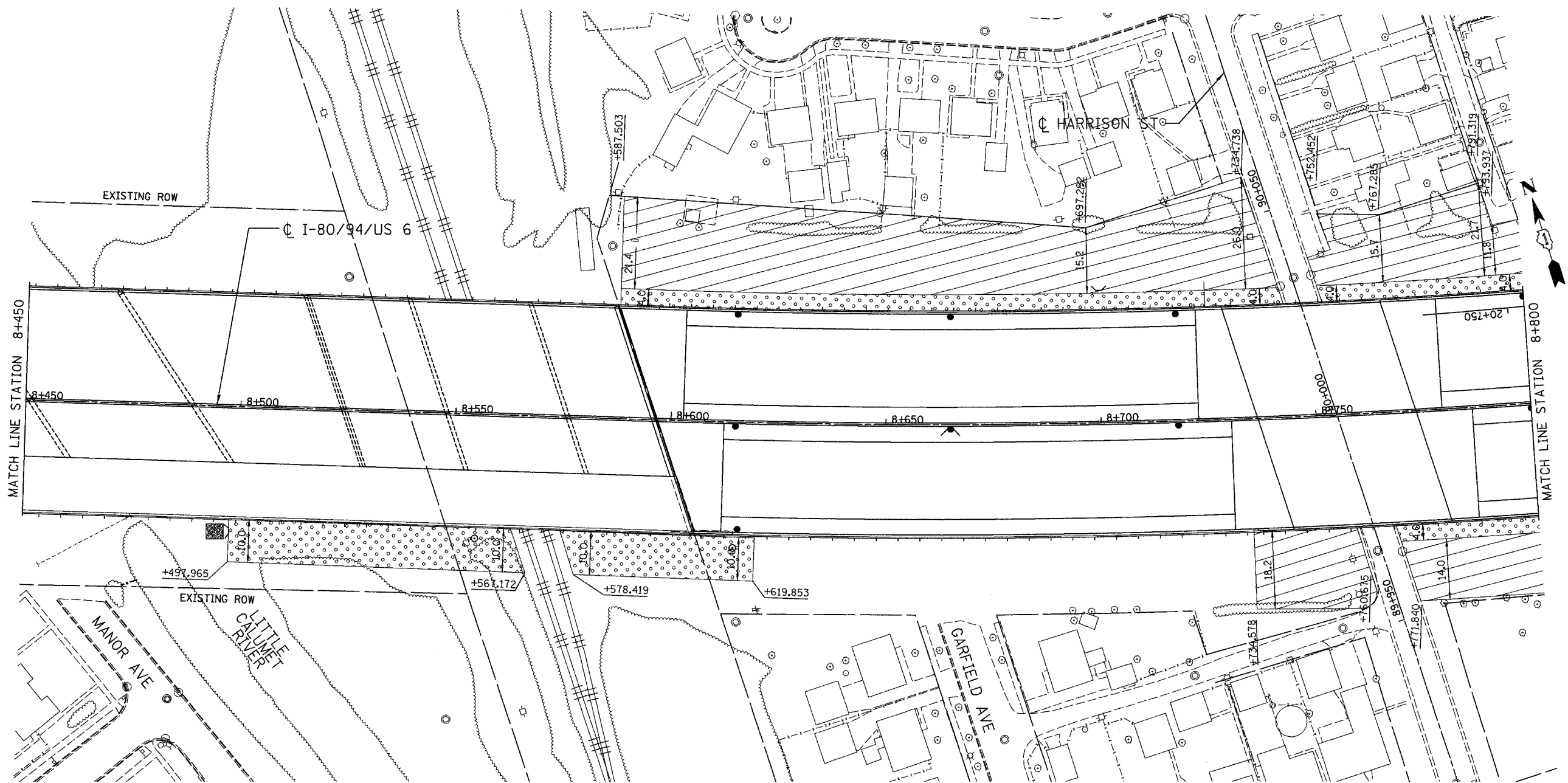
**STA. 8+100 TO STA. 8+450**

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

**AMERICAN**  
CONSULTING ENGINEERS

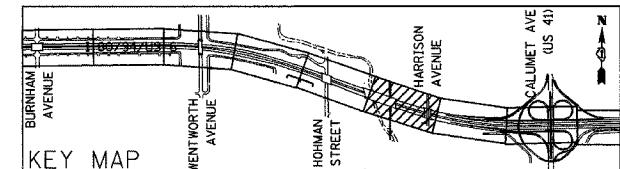
ALL DIMENSIONS IN METERS EXCEPT PAV  
ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	448
STA. TO STA.				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



**LEGEND:**

	SEEDING CL 2A WITH TOPSOIL FURNISH AND PLACE, 150 mm & EROSION CONTROL BLANKET
	SEEDING CL 2A & EROSION CONTROL BLANKET
	SODDING, SALT TOLERANT WITH TOPSOIL FURNISH AND PLACE, 300 mm & COMPOST FURNISH AND PLACE, 100MM



REVISIONS	
NAME	DATE

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

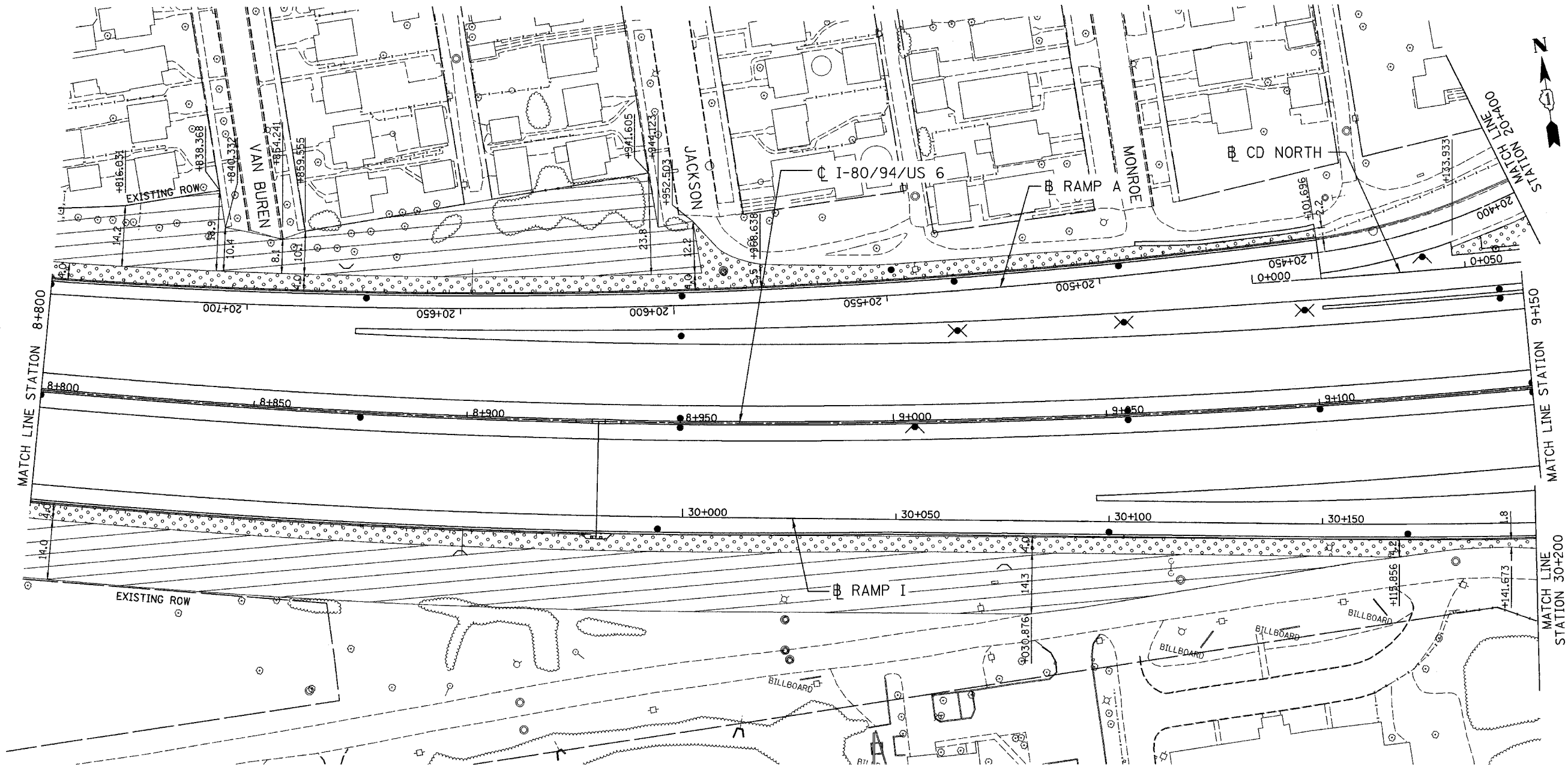
**STA. 8+450 TO STA. 8+800**

SCALE 1:500  
DATE 07/05

DRAWN BY ACE/CAD  
CHECKED BY TAE

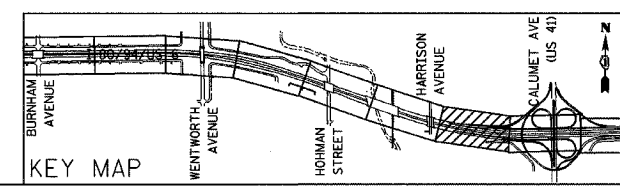
ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	449
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



**LEGEND:**

	SEEDING CL 2A WITH TOPSOIL FURNISH AND PLACE, 150 mm & EROSION CONTROL BLANKET
	SEEDING CL 2A & EROSION CONTROL BLANKET
	SODDING, SALT TOLERANT WITH TOPSOIL FURNISH AND PLACE, 300 mm & COMPOST FURNISH AND PLACE, 100MM



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURHAM ROAD TO US 41  
**LANDSCAPE PLAN**

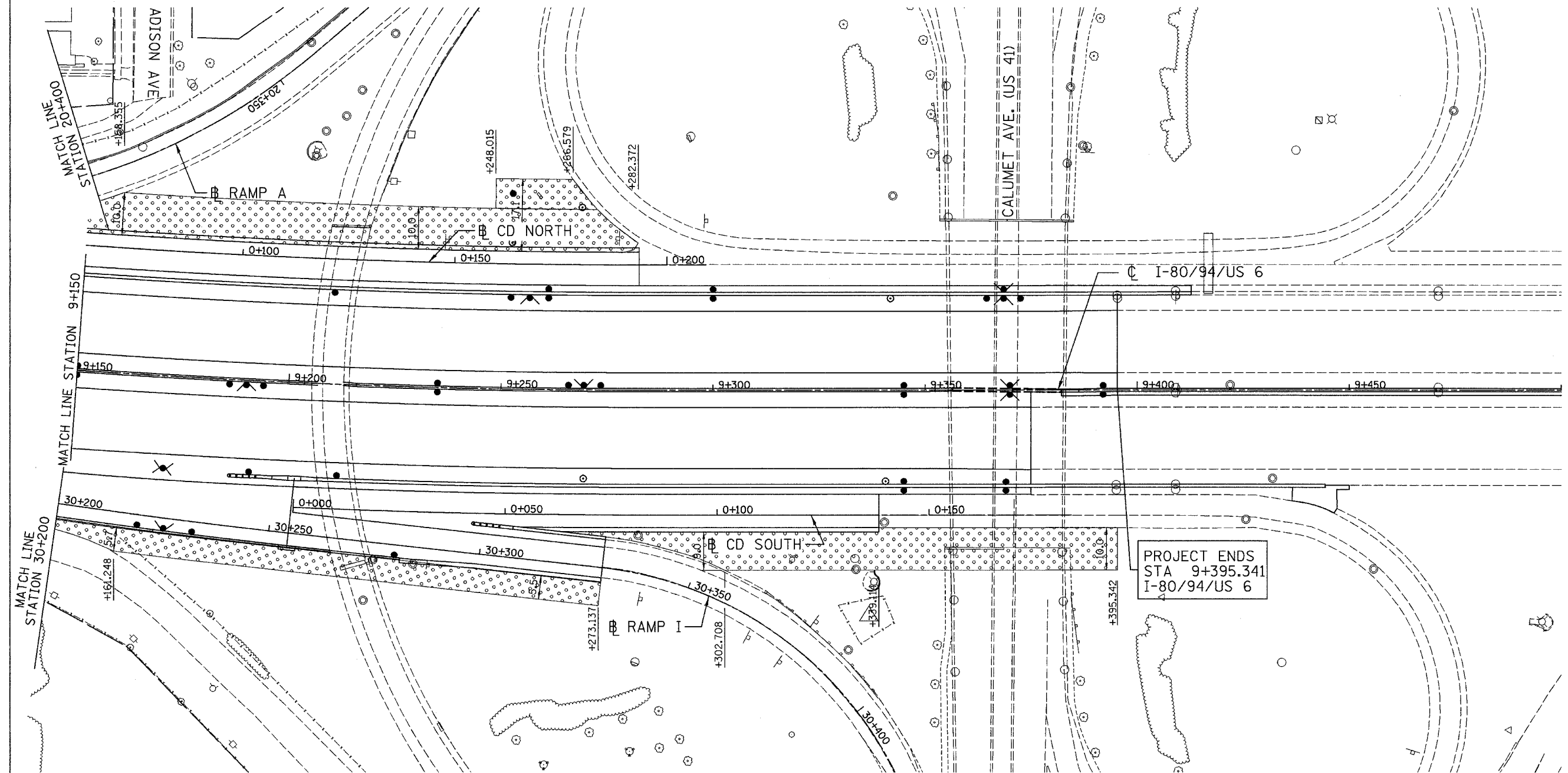
**STA. 8+800 TO STA. 9+150**

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

**AMERICAN**  
 CONSULTING ENGINEERS

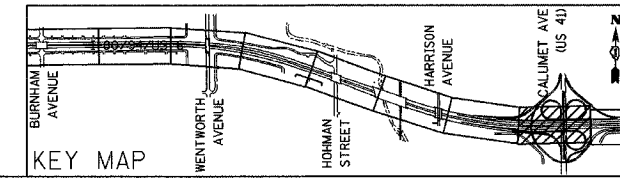
ALL DIMENSIONS IN METERS EXCEPT PAV  
ITEMS AND UNLESS NOTED OTHERWISE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK/LAKE	1207	450
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114	INDOT DES. NO. 0100987			



**LEGEND:**

	SEEDING CL 2A WITH TOPSOIL FURNISH AND PLACE, 150 mm & EROSION CONTROL BLANKET
	SEEDING CL 2A & EROSION CONTROL BLANKET
	SODDING, SALT TOLERANT WITH TOPSOIL FURNISH AND PLACE, 300 mm & COMPOST FURNISH AND PLACE, 100MM



REVISIONS	
NAME	DATE

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

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

DRAWN BY ACE/CAD  
CHECKED BY TAE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2003-0891	COOK	1207	451
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT # 62114				

ROADWAY ELECTRICAL SYMBOL															
SYMBOL	DESCRIPTION														
	EXISTING HIGH MAST TOWER TO REMAIN														
	EXISTING HIGH MAST TOWER TO BE REMOVED														
	PROPOSED HIGH MAST TOWER ARROWS INDICATE QUANTITY AND ORIENTATION OF LUMINAIRES. NUMBER INDICATES TOWER TYPE														
	<table border="1"> <tr> <th>TYPE</th> <th>TOWER HEIGHT</th> </tr> <tr> <td>1</td> <td>30.0m (100ft.)</td> </tr> <tr> <td>2</td> <td>33.5m (110ft.)</td> </tr> <tr> <td>3</td> <td>36.5m (120ft.)</td> </tr> <tr> <td>4</td> <td>40.0m (130ft.)</td> </tr> <tr> <td>5</td> <td>42.5m (140ft.)</td> </tr> <tr> <td>6</td> <td>45.5m (150ft.)</td> </tr> </table>	TYPE	TOWER HEIGHT	1	30.0m (100ft.)	2	33.5m (110ft.)	3	36.5m (120ft.)	4	40.0m (130ft.)	5	42.5m (140ft.)	6	45.5m (150ft.)
TYPE	TOWER HEIGHT														
1	30.0m (100ft.)														
2	33.5m (110ft.)														
3	36.5m (120ft.)														
4	40.0m (130ft.)														
5	42.5m (140ft.)														
6	45.5m (150ft.)														
	PROPOSED LIGHTING UNIT														
	PROPOSED LIGHTING UNIT, TWIN ARMS														
	EXISTING LIGHTING UNIT TO REMAIN														
	EXISTING LIGHTING UNIT, TWIN ARMS														
	EXISTING LIGHTING UNIT TO BE REMOVED														
	TEMPORARY LIGHTING UNIT														
	EXISTING TEMPORARY LIGHTING UNIT TO BE REMOVED														
	EXISTING TEMPORARY LIGHTING UNIT TO REMAIN														
	TEMPORARY LIGHTING UNIT WITH TWIN MAST ARM														
	EXPOSED CONDUIT														
	RACEWAY OR DIRECT BURIAL CABLE UNDERGROUND WITHOUT ENCASEMENT														
	EXISTING UNDERGROUND WIRING TO REMAIN														
	EXISTING CONDUIT EXPOSED														
	FLEXIBLE CONDUIT														
	EXISTING UNIT DUCT TO BE ABANDONDED														
	AERIAL ELECTRIC CABLE														
	EXISTING AERIAL ELECTRIC CABLE														
	RACEWAY EMBEDDED IN STRUCTURE														
	RIGID GALVANIZED STEEL CONDUIT SLEEVE, TRENCHED OR PUSHED														
	CONDUIT TURNED DOWN														
	CONDUIT TURNED UP														
	EXISTING UNDERPASS LUMINAIRE														
	UNDERPASS LUMINAIRE														
	ELECTRIC CONNECTION TO SIGN STRUCTURE CANTILEVER SIGN STRUCTURE														
	ELECTRIC CONNECTION TO SIGN STRUCTURE TRUSS TYPE SIGN STRUCTURE														
	ELECTRIC CONNECTION TO SIGN STRUCTURE BRIDGE MOUNTED SIGN STRUCTURE														
	DUCT BANK														

ROADWAY ELECTRICAL SYMBOL	
SYMBOL	DESCRIPTION
	ELECTRIC JUNCTION BOX, TYPE AND SIZE AS INDICATED
	ELECTRIC HANDHOLE
	ELECTRIC PULLBOX
	EXISTING LIGHTING CONTROLLER, DUPLEX
	EXISTING UTILITY SERVICE CONNECTION, POLE MOUNTED
	EXISTING UTILITY SERVICE CONNECTION, PAD MOUNTED
	PROPOSED LIGHTING CONTROLLER, DUPLEX
	PROPOSED UTILITY SERVICE CONNECTION, POLE MOUNTED
	PROPOSED UTILITY SERVICE CONNECTION, PAD MOUNTED
	TEMPORARY WOOD POLE
	ELECTRIC UTILITY POLE
	ELECTRIC GROUND ROD
	ELECTRIC SERVICE WEATHERHEAD
	EXISTING DYNAMIC MESSAGE SIGN
	EXISTING FLASHING BEACON SIGN
	EXISTING CLOSED CIRCUIT TELEVISION CAMERA
	EXISTING MICROWAVE DETECTOR
	EXISTING DETECTOR LOOP
	PROPOSED DYNAMIC MESSAGE SIGN
	PROPOSED FLASHING BEACON SIGN
	PROPOSED CLOSED CIRCUIT TELEVISION CAMERA
	PROPOSED MICROWAVE DETECTOR
	PROPOSED DETECTOR LOOP

### CALL-OUT SAMPLES

DEFINITION	EXAMPLE
<p>CKT. NO. LOCATION</p>	<p>6 ABC1 STA. 28+169, 48 LT</p>
<p>TOWER HANDHOLE INDICATOR</p>	
<p>QUANTITY OF LUMINAIRES</p>	
<p>LIGHTING CONTROL CABINET</p>	
<p>CIRCUIT NUMBERS</p>	
<p>POLE NUMBER</p>	
<p>CKT. NO. LOCATION MOUNTING HEIGHT (MH) MAST ARM (MA) LUMINAIRE WATTAGE (W)</p>	<p>CA1 STA. 600+29, 64 LT 14.5M MH, 4.5M MA, 400W</p>
<p>LIGHTING CONTROL CABINET</p>	
<p>CIRCUIT NUMBER</p>	
<p>POLE NUMBER</p>	
<p>WOOD POLE DESIGNATION/ LOCATION</p>	<p>WP 18 STA. 1721+30, 65 RT</p>
<p>WP18 - 18.3M POLE HEIGHT WP27 - 27.4M POLE HEIGHT</p>	
<p>CONTROLLER DESIGNATION LOCATION &amp; DESCRIPTION</p>	<p>LIGHTING CONTROLLER DA STA. 1652+29, 86 LT 240/480 V, 1Ø, 3 WIRE</p>
<p>CONDUIT QUANTITY, SIZE, TYPE, LENGTH INSTALLATION TYPE PUSHED, TRENCHED</p>	<p>100mm (4") DIA. RGC, 40' TRENCHED</p>
<p>CKT: CONDUCTORS RACEWAY</p>	<p>A&amp;B: 3#4 &amp; 1#6 GND. 30mm (1 1/4") DIA. UNIT DUCT</p>
<p>NEW OR EXISTING CABLE IN DUCT</p>	<p>CONCRETE ENCASED 100MM DIA. CNC CONDUIT WITH CABLE (TYPICAL, U.N.O.)</p>
<p>EMPTY DUCT</p>	<p>100MM DIA. CNC CONDUIT, SPARE LENGTH</p>
<p>DUCT IDENTIFICATION</p>	
<p>SIGN DESIGNATION # OF FLOURESCENT LUMINAIRES</p>	<p>B-1 6 LUMINAIRES</p>

### ABBREVIATIONS

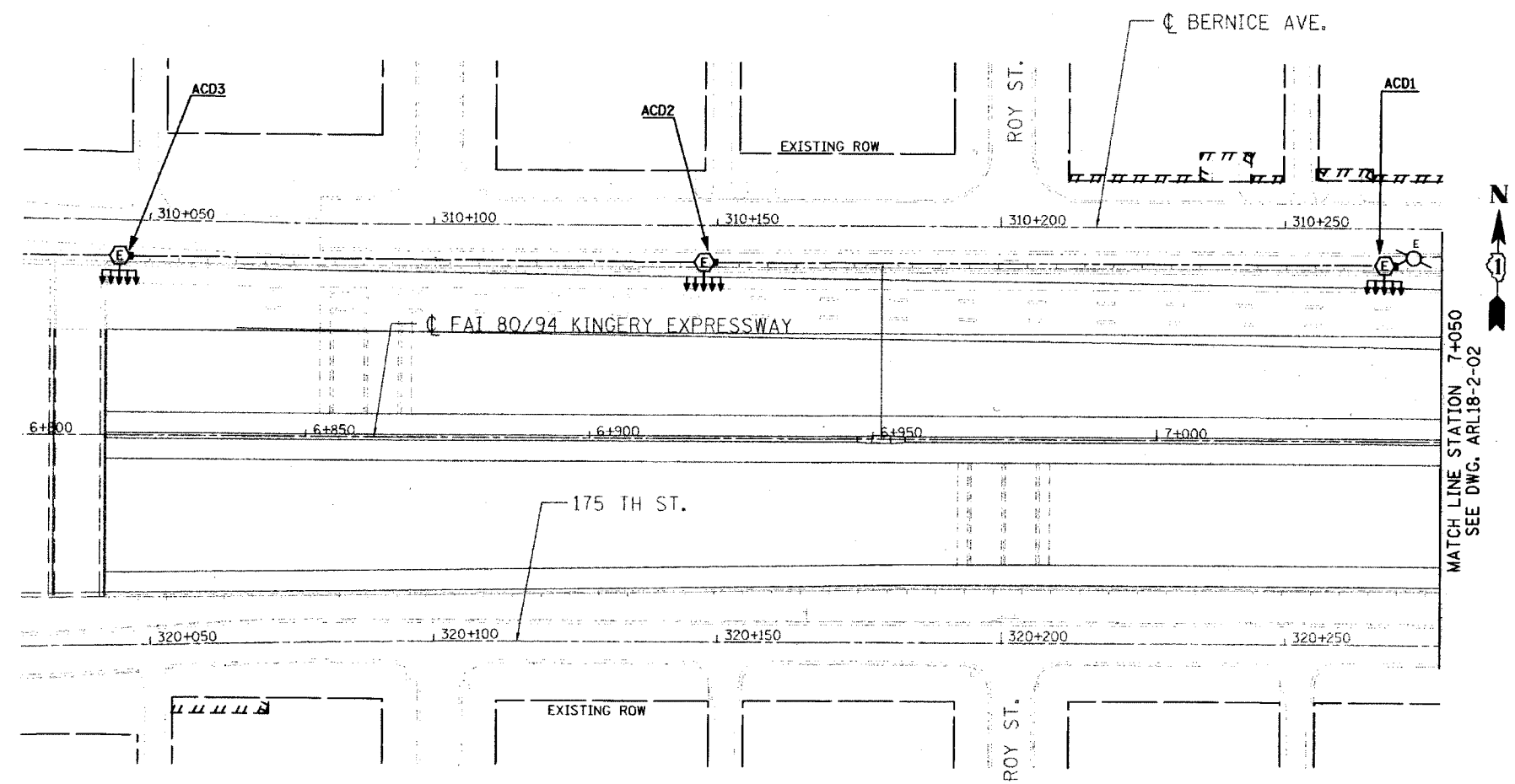
SYMBOL	DESCRIPTION
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
AFG	ABOVE FINISHED GRADE
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CENTIMETER
CNC	COILABLE NONMETALLIC CONDUIT
CT	CURRENT TRANSFORMER
CP	CONTROL PANEL
DA	DAVIT ARM
DC	DIRECT CURRENT
DIA	DIAMETER
DP	DISTRIBUTION PANEL
E	EXISTING UNIT TO REMAIN
ECA	ELECTRIC CABLE ASSEMBLY
EM	EXISTING UNIT TO BE MODIFIED (e.g. NEW LUMINAIRE, BALLAST OR MAST ARM)
ER	EXISTING RELOCATED UNIT
ET	EXISTING TEMPORARY UNIT TO REMAIN
ETR	EXISTING TEMPORARY RELOCATED UNIT
FT	FEET OR FOOT
FND BW	FOUNDATION BARRIER WALL
FND BW OS	FOUNDATION BARRIER WALL OFFSET
FND CON	FOUNDATION CONCRETE
FND CON OS	FOUNDATION CONCRETE OFFSET
FND MET	FOUNDATION METAL
FND PW	FOUNDATION PARAPET WALL
FU	FUSE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
M	METER
MA	MAST ARM
MM	MILLIMETER
MH	MOUNTING HEIGHT
NO. #	NUMBER
P	PROPOSED
PB	PUSH BUTTON
PNL	PANEL
PVCC RGC	PVC COATED RIGID GALVANIZED CONDUIT
PT	POTENTIAL TRANSFORMER
R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.)
RR	EXISTING UNIT TO BE REMOVED AND REINSTALLED
RECP	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
SEL SW	SELECTOR SWITCH
SPARE	SPARE
SPACE	SPACE
SS	STAINLESS STEEL
STA	STATION
T	TEMPORARY LIGHTING UNIT
TMP	TEMPORARY
TR	TEMPORARY UNIT TO BE REMOVED. SALVAGE EQUIPMENT AS SPECIFIED
TRR	TEMPORARY UNIT TO BE REMOVED AND RELOCATED
TUR	TEMPORARY UNIT ON UTILITY POLE TO BE REMOVED
UD	UNIT DUCT
U.N.O.	UNLESS NOTED OTHERWISE
WP	WOOD POLE
XFMR	TRANSFORMER

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. ROUTE 80/94 (INTERSTATE 80/294)
NAME	DATE	
TG	7/2/03	ELECTRICAL SYMBOL LIST AND ABBREVIATIONS
		SCALE NONE
		DATE 07/18/05
		DRAWN BY ACE/CAD
		CHECKED BY TJW





F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2003-089I	COOK	1207	452
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		CONTRACT • 62114	



MATCH LINE STATION 7+050  
SEE DWG. ARL18-2-02



Michael G. Kelly 07/13/05  
11/20/05

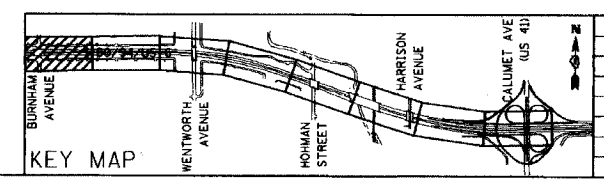


Michael G. Kelly 07/13/05  
Exp. 07/31/06

ARL18-2-01

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
EXISTING LIGHTING PLAN  
I-80/94/US 6  
STA. 6+800 TO STA. 7+050  
SCALE 1:500  
DATE 07/18/05  
DRAWN BY EAO/BC  
CHECKED BY PKG/BC

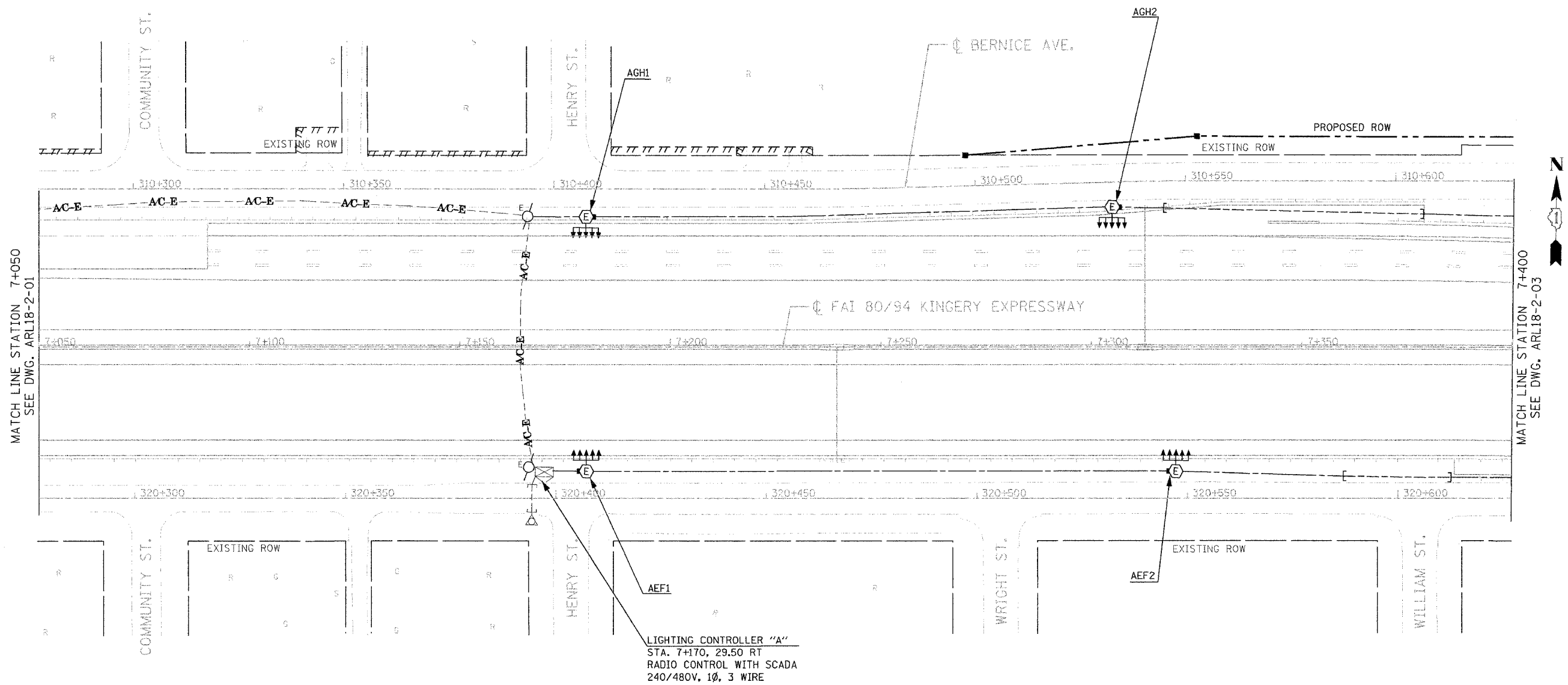
**GO** GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
200 S. MICHIGAN STREET  
CHICAGO, ILLINOIS 60606 TEL: 312.774.5800



REVISIONS	
NAME	DATE

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2003-0891	COOK	1207	453
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT # 62114				



MATCH LINE STATION 7+050  
SEE DWG. ARL18-2-01

MATCH LINE STATION 7+400  
SEE DWG. ARL18-2-03

LIGHTING CONTROLLER "A"  
STA. 7+170, 29.50 RT  
RADIO CONTROL WITH SCADA  
240/480V, 1Ø, 3 WIRE

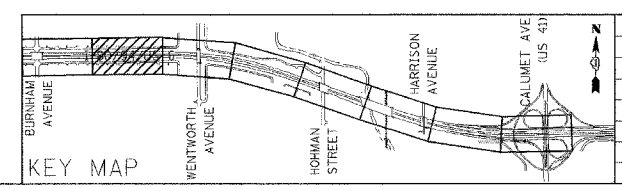
ARL18-2-02

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**EXISTING LIGHTING PLAN**  
I-80 /94 /US-6  
STA. 7+050 TO STA. 7+400

SCALE 1:500  
DATE 07/18/05

DRAWN BY EA0/BC  
CHECKED BY PKG/BC

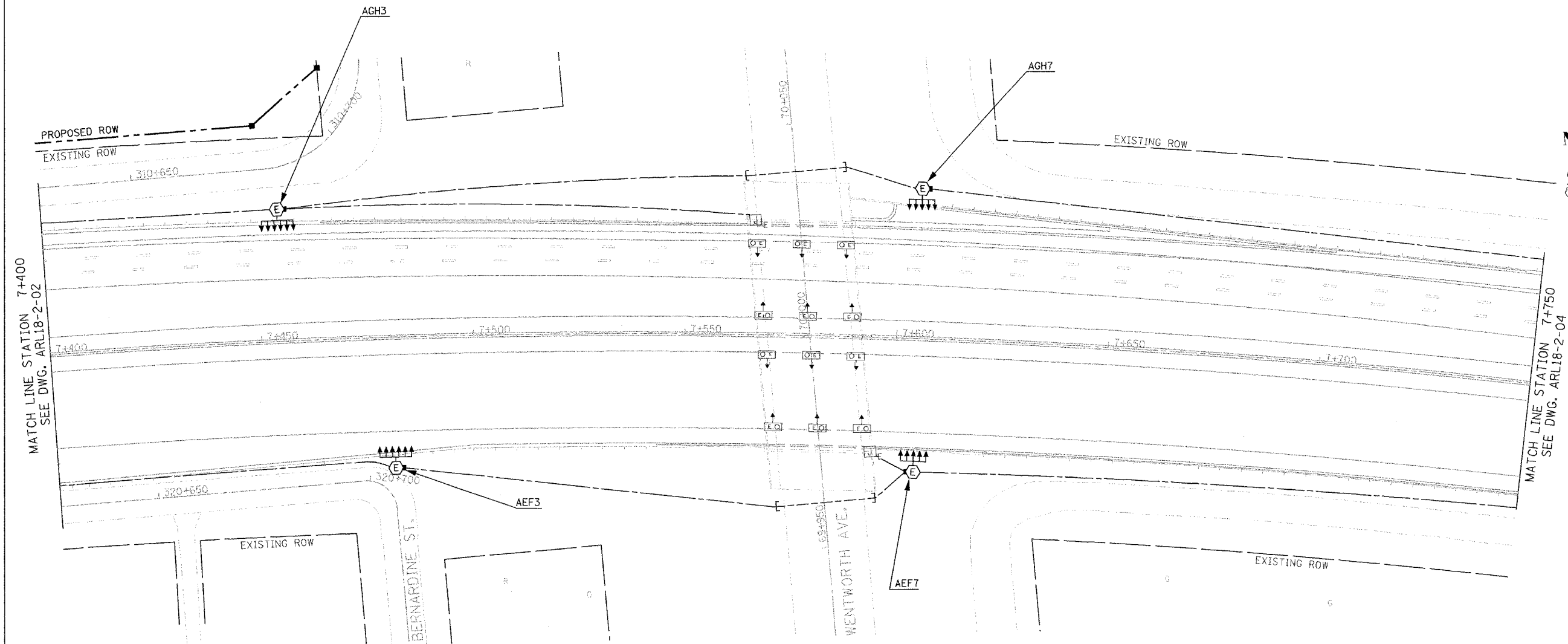
**GO** GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
5035 N. NORTHWEST TOWNSHIP  
SUITE 204  
CHICAGO, ILLINOIS 60631 TEL: (773)774-5900



REVISIONS	
NAME	DATE

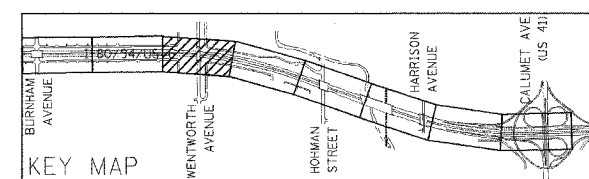
8/17/08  
8/18/08  
8/18/08

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2003-0891	COOK	1207	454
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT # 62114				

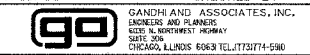


ARL18-2-03

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**EXISTING LIGHTING PLAN**  
 I-80 /94 /US-6  
**STA. 7+400 TO STA. 7+750**  
 SCALE 1:500 DRAWN BY EA0/BC  
 DATE 07/18/05 CHECKED BY PKG/BC

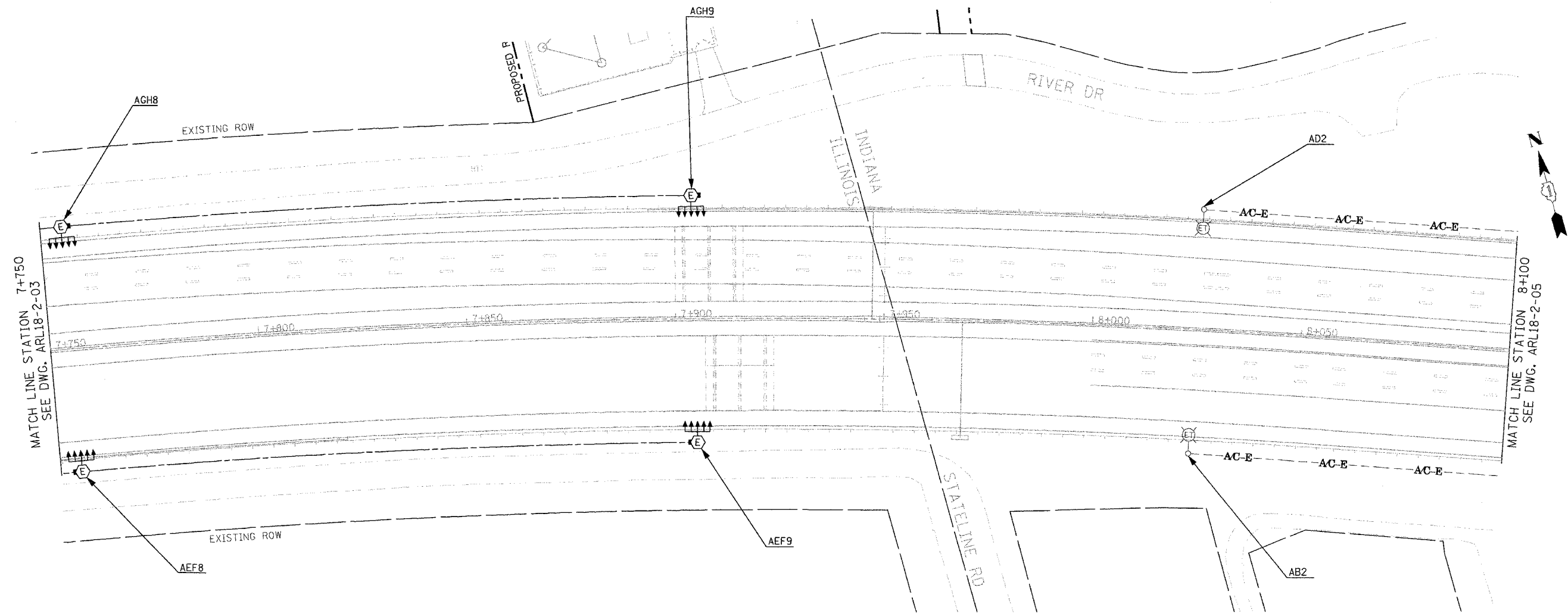


REVISIONS	
NAME	DATE



#1014  
 #1015  
 #1016

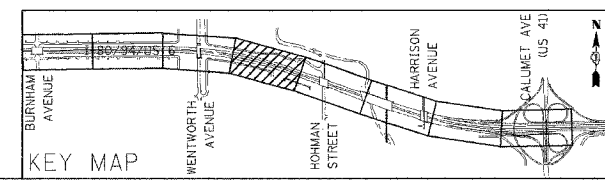
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2003-0891	COOK	1207	455
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT # 62114				



MATCH LINE STATION 7+750  
SEE DWG. ARL18-2-03

MATCH LINE STATION 8+100  
SEE DWG. ARL18-2-05

**NOTE:**  
INSTALLATION OF TEMPORARY LIGHT POLE UNITS,  
AND AERIAL CABLE ON NORTHSIDE IN INDIANA  
SHALL BE COORDINATED WITH CONTRACT 62664.



REVISIONS	
NAME	DATE

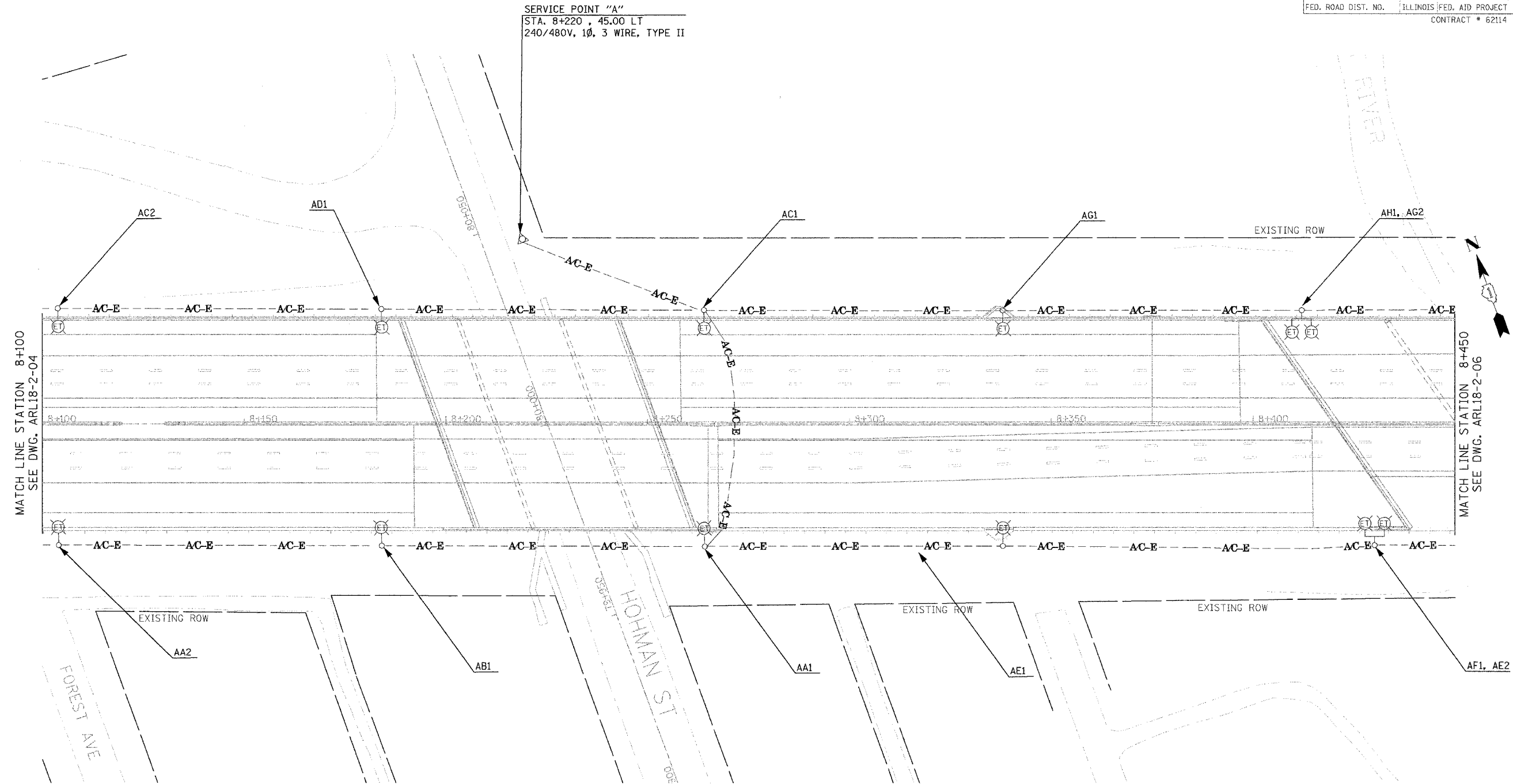
**ARL18-2-04**

**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**EXISTING LIGHTING PLAN**  
I-80/94/US-6  
**STA. 7+750 TO STA. 8+100**

SCALE 1:500 DRAWN BY EAO/BC  
DATE 07/18/05 CHECKED BY PKG/BC

**GO** GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
600 N. KENTWORTH HIGHWAY  
SUITE 200  
CHICAGO, ILLINOIS 60642 TEL: 312/774-5200

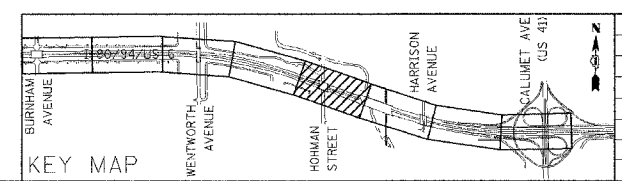
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
60/94	2003-0891	COOK	1207	456
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT # 62114		



MATCH LINE STATION 8+100  
SEE DWG. ARL18-2-04

MATCH LINE STATION 8+450  
SEE DWG. ARL18-2-06

NOTE:  
INSTALLATION OF TEMPORARY LIGHT POLE UNITS,  
AND AERIAL CABLE ON NORTHSIDE IN INDIANA  
SHALL BE COORDINATED WITH CONTRACT 62664.



REVISIONS	
NAME	DATE

ARL18-2-05

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
EXISTING LIGHTING PLAN  
I-80 /94 /US-6  
STA. 8 + 100 TO STA. 8 + 450

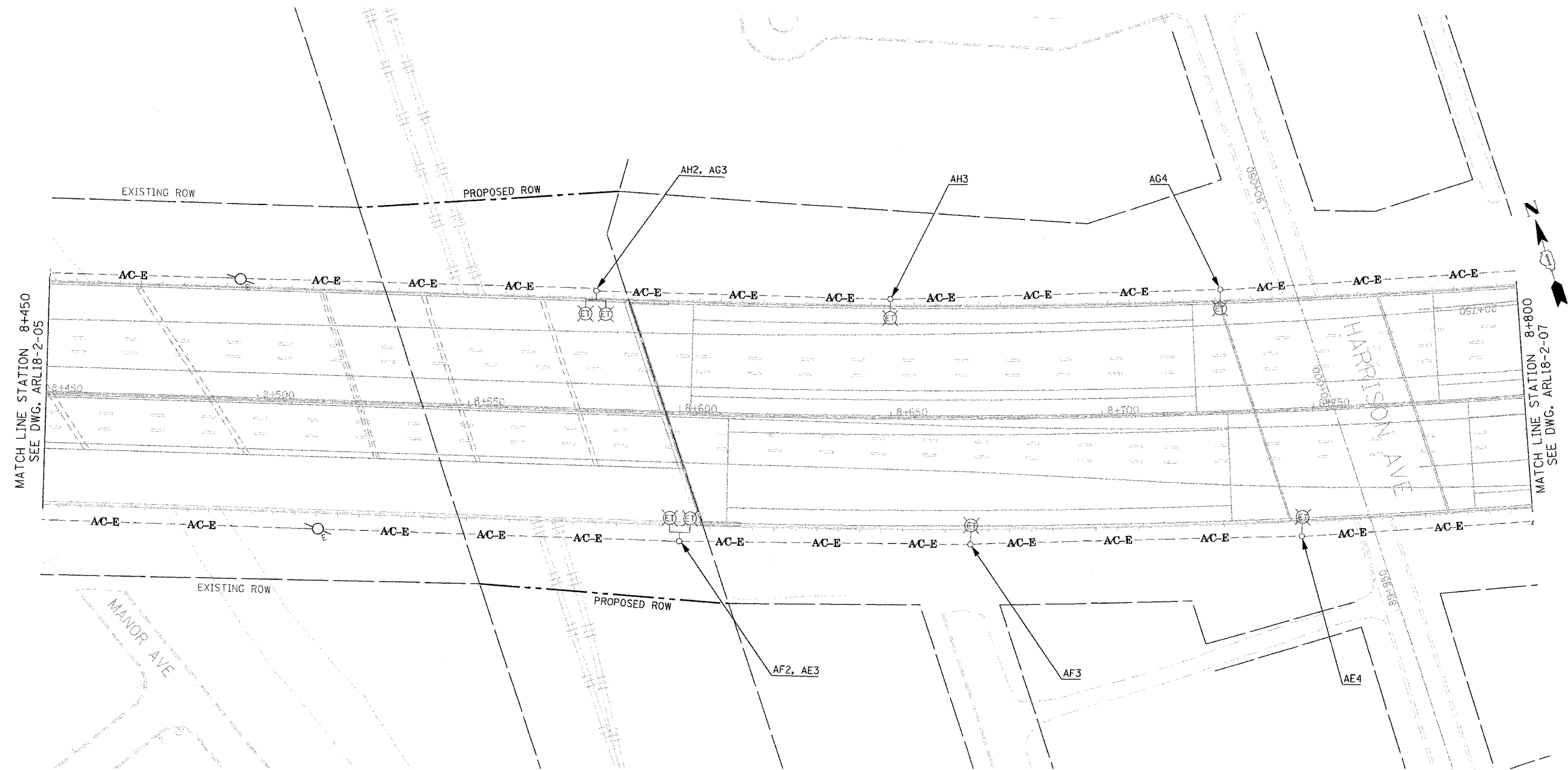
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DATE 07/18/05

DRAWN BY EA0/BC  
CHECKED BY PKG/BC

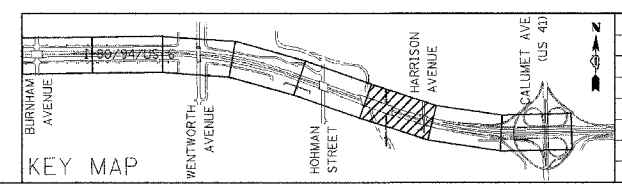
GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
800 N. WESTFIELD ROAD  
SUITE 200  
CHICAGO, ILLINOIS 60653 TEL: 312/774-5980

4/24/04  
6/24/04  
7/24/04

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2003-089I	COOK	1207	457
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT # 62114	



**NOTE:**  
 INSTALLATION OF TEMPORARY LIGHT POLE UNITS, AND AERIAL CABLE ON NORTHSIDE IN INDIANA SHALL BE COORDINATED WITH CONTRACT 62664.



REVISIONS	
NAME	DATE

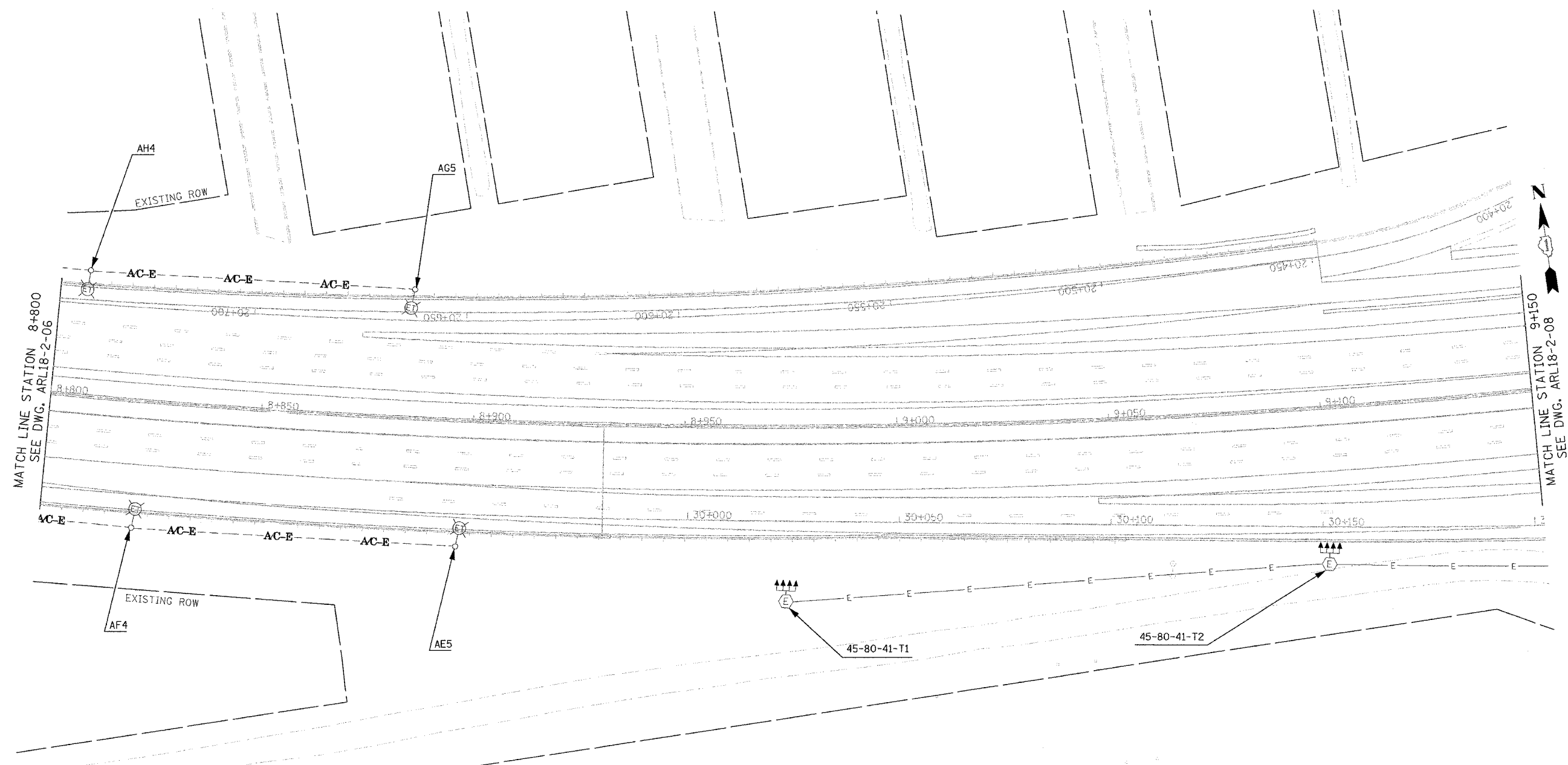
**ARL18-2-06**

**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
**I-80/94/US 6**  
**KINGERY-BORMAN EXPRESSWAY**  
**BURNHAM ROAD TO US 41**  
**EXISTING LIGHTING PLAN**  
**I-80 /94 /US-6**  
**STA. 8 + 450 TO STA. 8 + 800**

SCALE 1:500      DRAWN BY EAO/BC  
 DATE 07/18/05      CHECKED BY PKG/BC

**GO**  
 GANDHI AND ASSOCIATES, INC.  
 ENGINEERS AND PLANNERS  
 3000 N. NORTHWEST TOWNSHIP  
 SUITE 100  
 CHICAGO, ILLINOIS 60664 TEL: (773) 774-5900

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2003-089I	COOK	1207	458
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT * 62114	

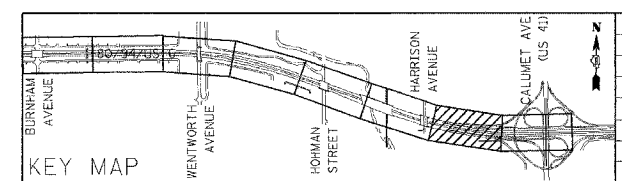


**NOTE:**  
 INSTALLATION OF TEMPORARY LIGHT POLE UNITS, AND AERIAL CABLE ON NORTHSIDE IN INDIANA SHALL BE COORDINATED WITH CONTRACT 62664.

ARL18-2-07

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**EXISTING LIGHTING PLAN**  
 I-80 /94 /US-6  
**STA. 8+800 TO STA. 9+150**  
 SCALE 1:500 DRAWN BY EAO/BC  
 DATE 07/18/05 CHECKED BY PKG/BC

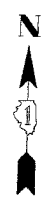
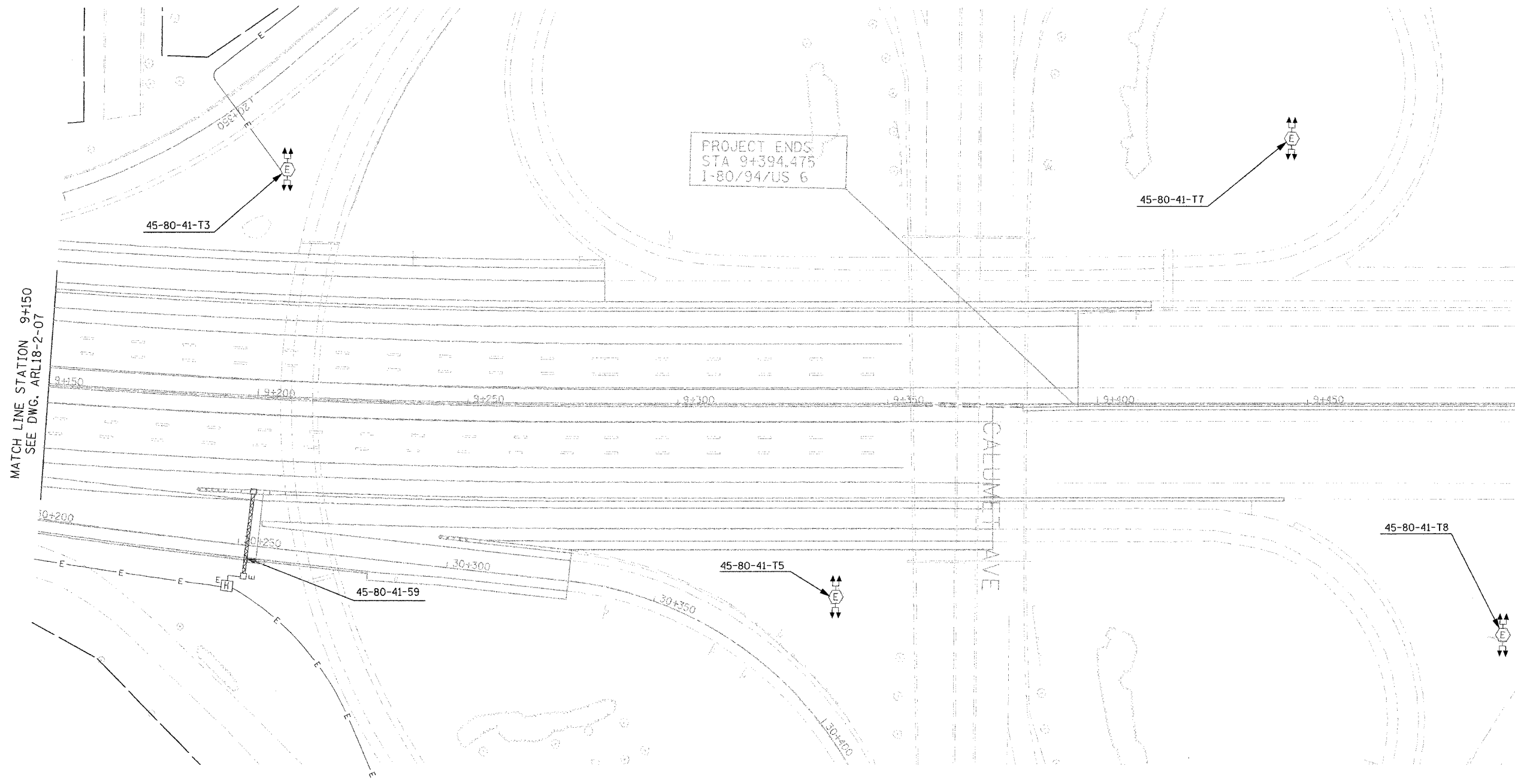
GANDHI AND ASSOCIATES, INC.  
 ENGINEERS AND PLANNERS  
 5000 N. BURNHAM HIGHWAY  
 SUITE 200  
 CHICAGO, ILLINOIS 60631 TEL: 773.3714.5900



REVISIONS	
NAME	DATE

FILED  
 DATE  
 TIME

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2003-089I	COOK	1207	459
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT # 62114				



MATCH LINE STATION 9+150  
SEE DWG. ARL18-2-07

PROJECT ENDS  
STA 9+394.475  
I-80/94/US 6

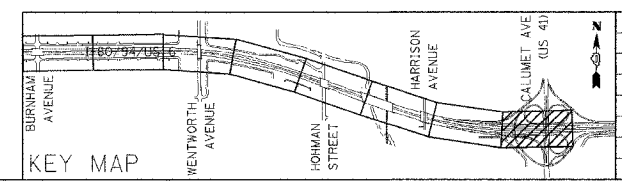
ARL18- 2-08

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
EXISTING LIGHTING PLAN  
I-80 /94 /US-6  
STA. 9 +150 TO STA. 9 +394.475

SCALE 1:500  
DATE 07/18/05

DRAWN BY EA0/BC  
CHECKED BY PKG/BC

GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
800 N. BURNHAM STREET, SUITE 200  
CHICAGO, ILLINOIS 60618 TEL: (773) 774-5300

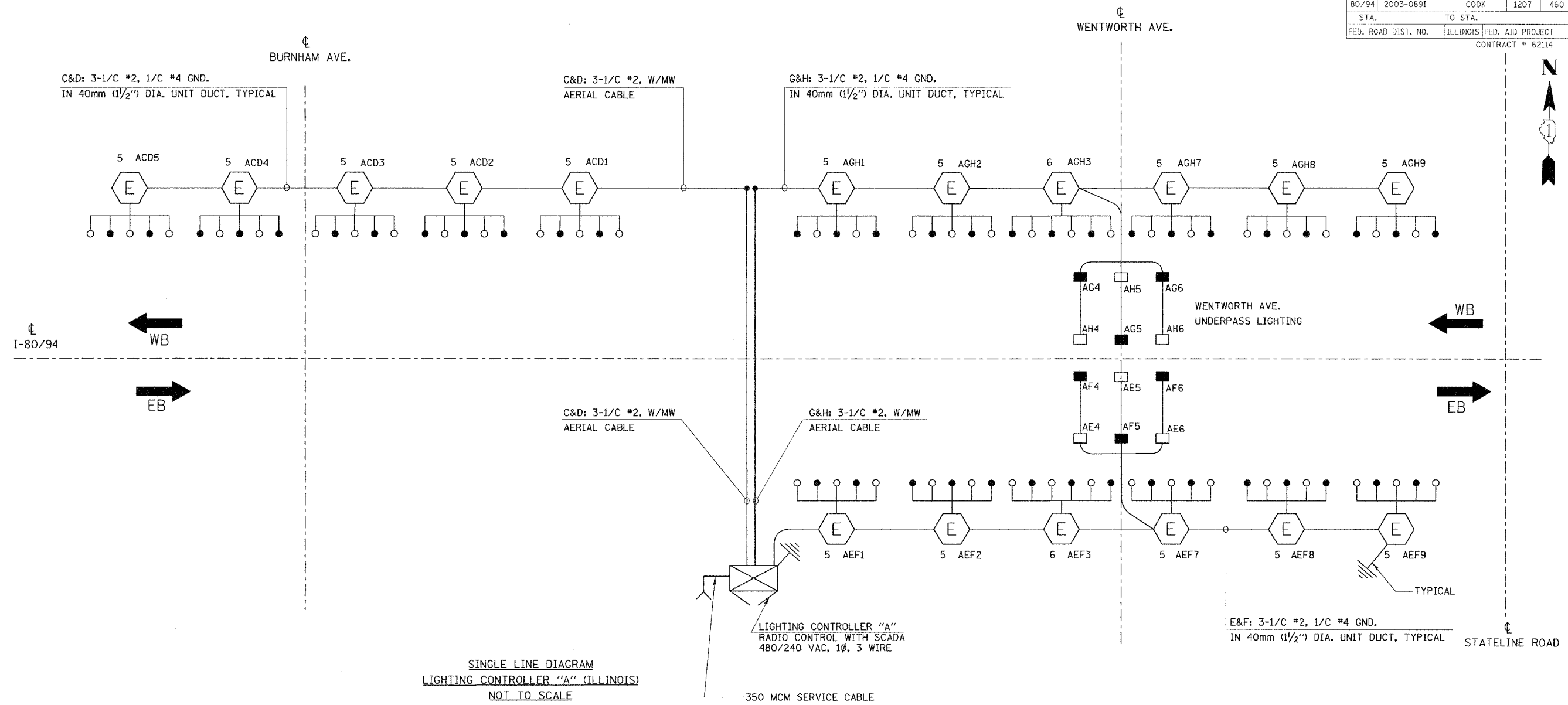


REVISIONS	
NAME	DATE

#FILES  
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#TIME

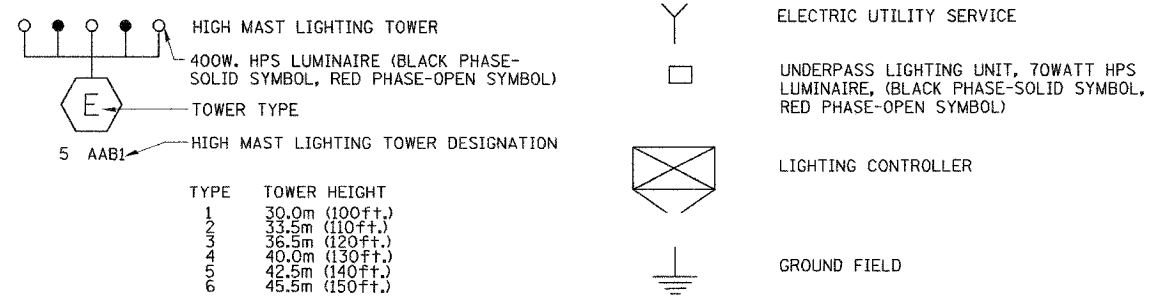


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2003-0891	COOK	1207	460
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT # 62114				



FOR INFORMATION ONLY

LEGEND



LOAD TABLE LIGHTING CONTROLLER "A" (ILLINOIS)					
CIRCUIT	RED PHASE		CIRCUIT	BLACK PHASE	
	AMPS	WATTS		AMPS	WATTS
C	26.0	6240	D	24.0	5760
E	33.2	7968	F	31.2	7488
G	31.2	7488	H	33.2	7968
<b>TOTAL</b>	<b>90.4</b>	<b>21696</b>	<b>TOTAL</b>	<b>88.4</b>	<b>21216</b>

**AWI8-2-01**

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
SINGLE LINE DIAGRAM  
LIGHTING CONTROLLER "A"  
(ILLINOIS)  
EXISTING LIGHTING

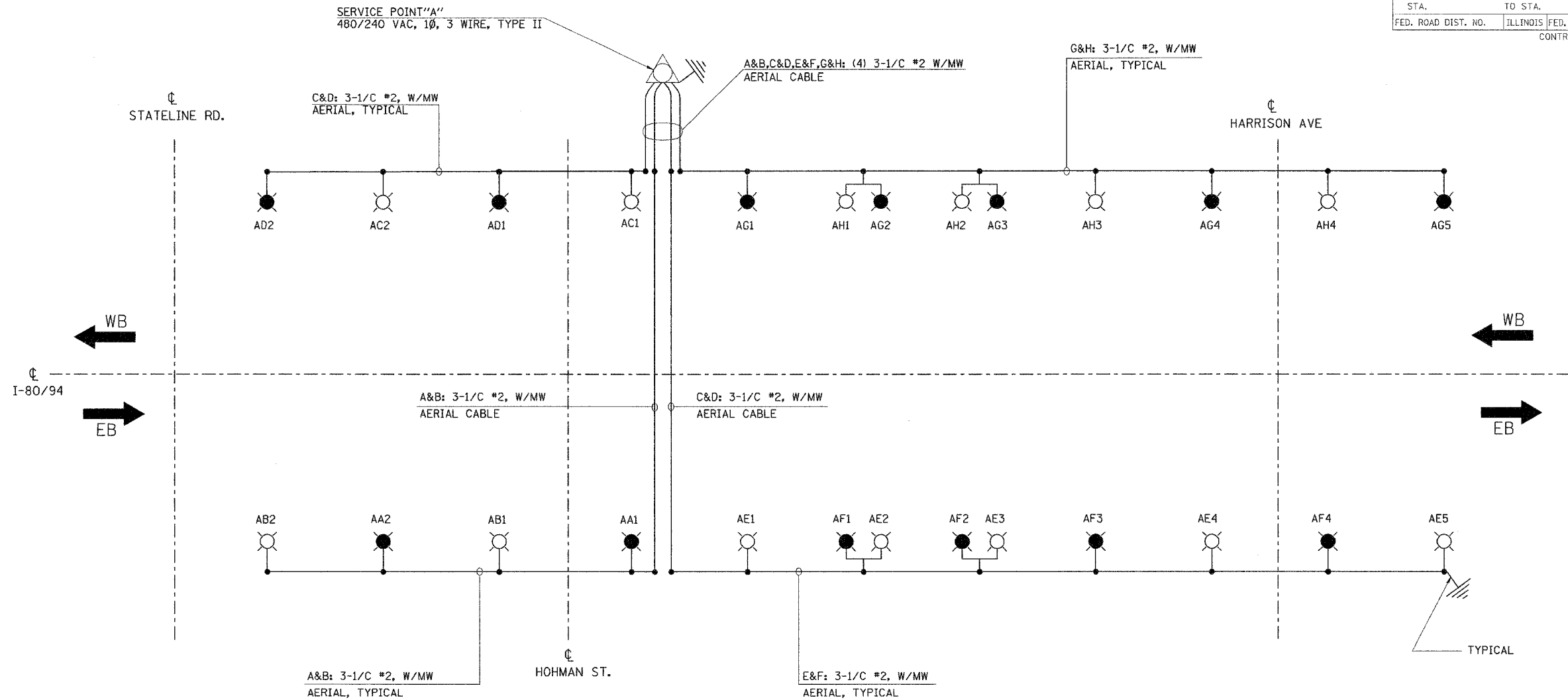
REVISIONS	
NAME	DATE

SCALE NONE      DRAWN BY EA0/BC  
DATE 07/18/05      CHECKED BY PKG/BC

**GO**  
GANZHE AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
200 N. WESTWIND BOULEVARD  
SUITE 200  
CHICAGO, ILLINOIS 60658 TEL: 312/374-5967

FILED  
NOTED  
DATE





F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2003-089I	COOK	1207	461
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT # 62114				



SINGLE LINE DIAGRAM  
SERVICE POINT "A" (INDIANA)  
NOT TO SCALE

FOR INFORMATION ONLY

LEGEND

-  SERVICE POINT, TYPE II
-  GROUND FIELD
-  TEMPORARY LIGHTING UNIT, 750WATT HPS LUMINAIRE, (BLACK PHASE-SOLID SYMBOL, RED PHASE-OPEN SYMBOL)
-  TEMPORARY LIGHTING UNIT, 750WATT HPS, WITH TWIN ARMS (BLACK PHASE-SOLID SYMBOL, RED PHASE-OPEN SYMBOL)


LOAD TABLE SERVICE POINT "A" (INDIANA)					
CIRCUIT	BLACK PHASE		CIRCUIT	RED PHASE	
	AMPS	WATTS		AMPS	WATTS
A	7.0	1680	B	7.0	1680
D	7.0	1680	C	7.0	1680
F	14.0	3360	E	17.5	4200
G	17.5	4200	H	14.0	3360
<b>TOTAL</b>	<b>45.5</b>	<b>10920</b>	<b>TOTAL</b>	<b>45.5</b>	<b>10920</b>

REVISIONS	
NAME	DATE

AWE18- 2-03

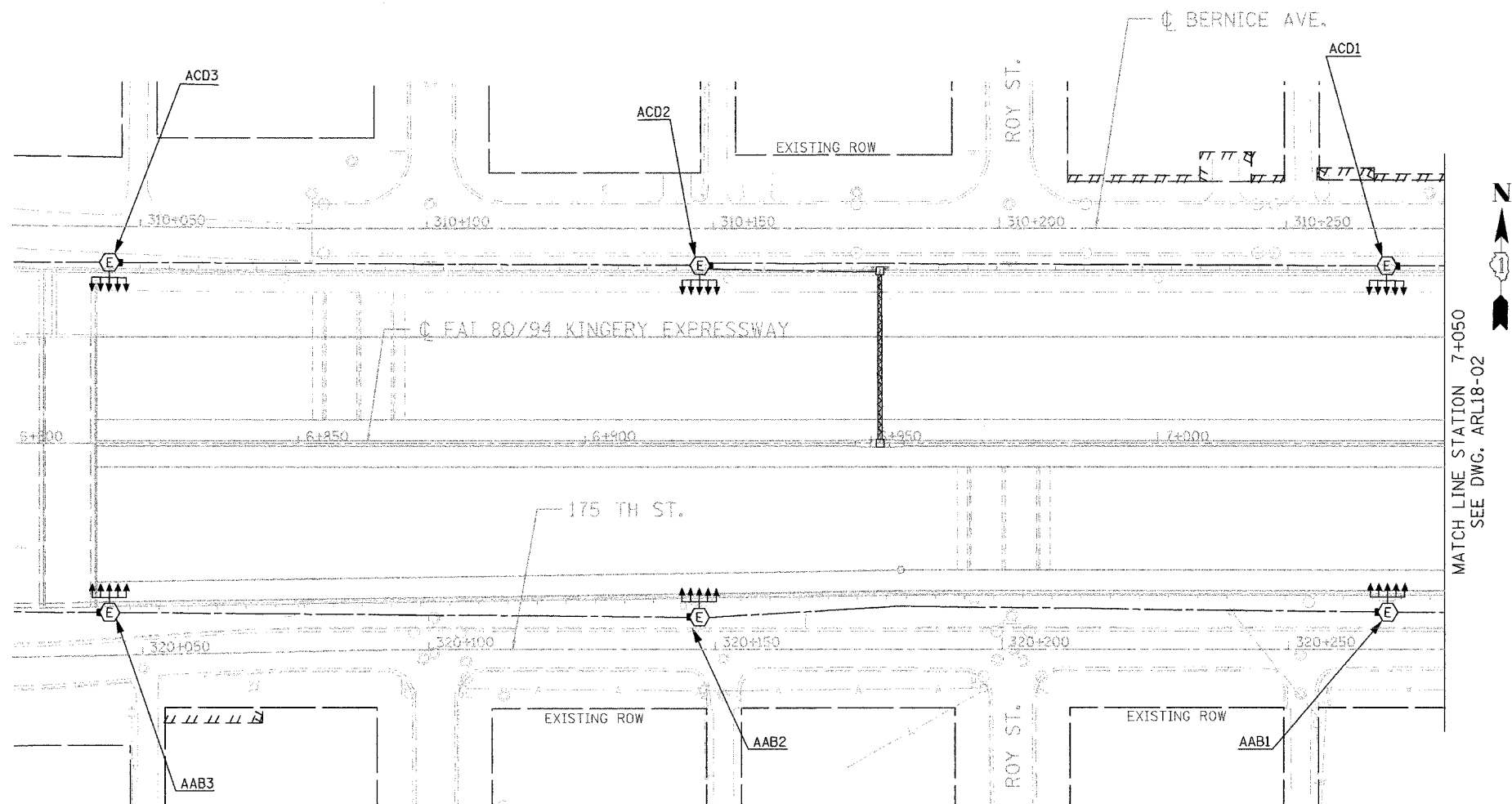
**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
SINGLE LINE DIAGRAM  
SERVICE POINT "A" (INDIANA)  
EXISTING LIGHTING

SCALE NONE      DRAWN BY EAO/BC  
DATE 07/18/05      CHECKED BY PKG/BC

 GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
1000 N. BURNHAM ST. SUITE 200  
CHICAGO, ILLINOIS 60614 TEL: 4737774-5810

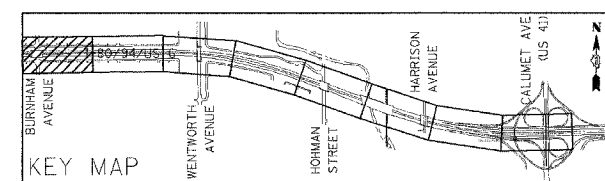
FILED  
DRAWN  
CHECKED

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2003-0891	COOK	1207	462
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT # 62114				



MATCH LINE STATION 7+050  
SEE DWG. ARL18-02

**NOTE:**  
1. ALL LIGHTING WORK SHOWN HERE UNLESS NOTED OTHERWISE IS DONE BY OTHERS AND FOR COORDINATION BETWEEN THE CONTRACTORS.



REVISIONS	
NAME	DATE

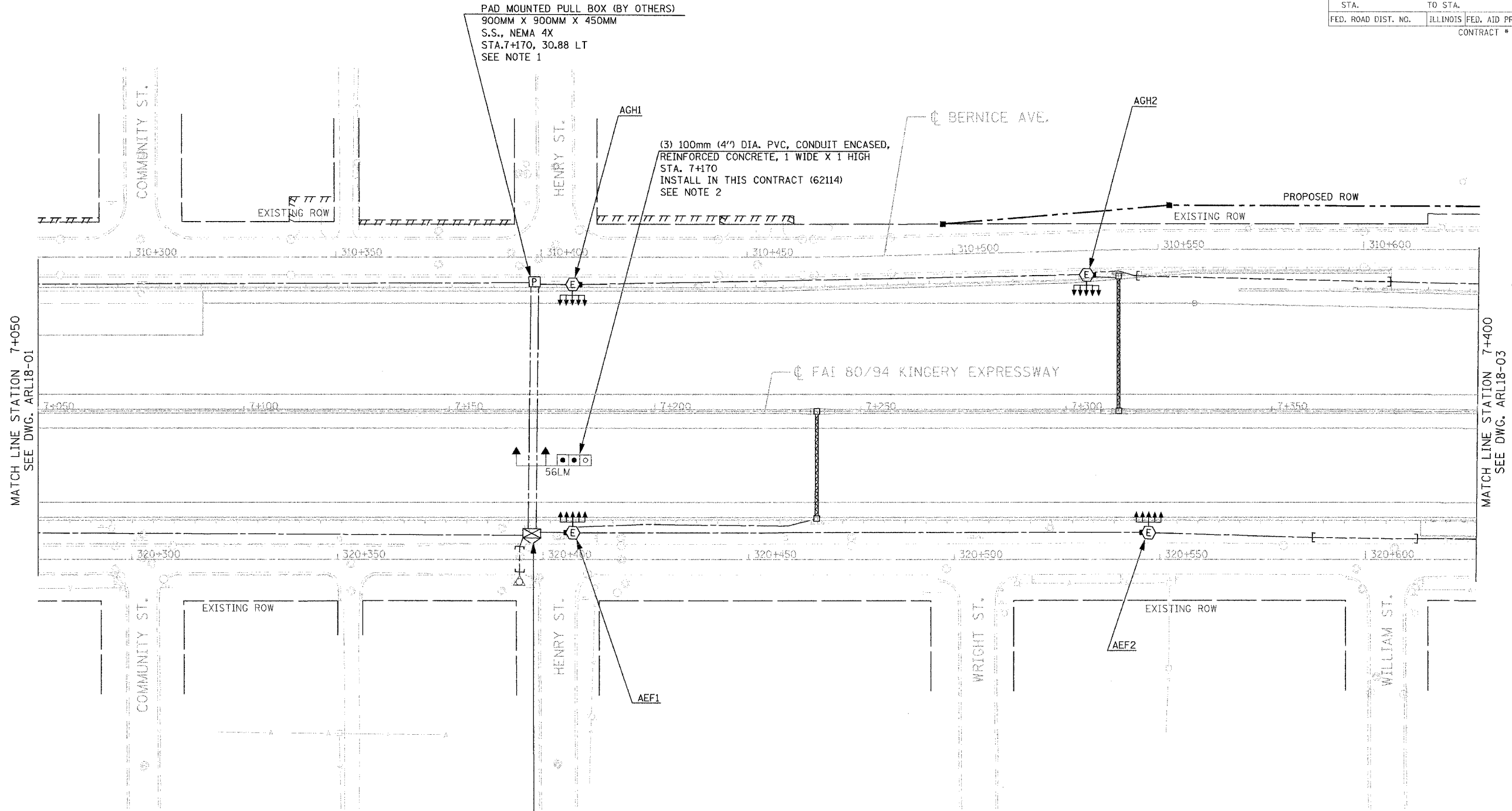
**ARL18-01**

**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**PROPOSED ROADWAY LIGHTING**  
I-80 /94 /US-6  
**STA. 6 + 800 TO STA. 7 + 050**

SCALE 1:500      DRAWN BY EA0/BC  
DATE 07/18/05      CHECKED BY PKG/BC

**GO**  
GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
8001 NORTHWEST HIGHWAY  
SUITE 200  
CHICAGO, ILLINOIS 60638 TEL: (773)714-5190

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2003-0891	COOK	1207	463
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT # 62114				



PAD MOUNTED PULL BOX (BY OTHERS)  
 900MM X 900MM X 450MM  
 S.S., NEMA 4X  
 STA. 7+170, 30.88 LT  
 SEE NOTE 1

(3) 100mm (4") DIA. PVC, CONDUIT ENCASED,  
 REINFORCED CONCRETE, 1 WIDE X 1 HIGH  
 STA. 7+170  
 INSTALL IN THIS CONTRACT (62114)  
 SEE NOTE 2

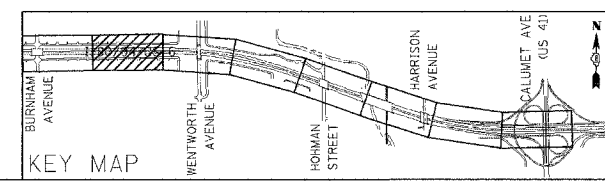
LIGHTING CONTROLLER "A" (BY OTHERS)  
 STA. 7+170, 29.5 RT  
 RADIO CONTROL WITH SCADA  
 240/480V, 1Ø, 3 WIRE

MATCH LINE STATION 7+050  
SEE DWG. ARL18-01

MATCH LINE STATION 7+400  
SEE DWG. ARL18-03



- NOTES:
- FOR PAD MOUNTED PULL BOX DETAIL, SEE DRAWING MED18-2.
  - REVIEW M.O.T. PLANS FOR STAGING TO INSTALL CONDUITS.
  - ALL LIGHTING WORK SHOWN HERE UNLESS NOTED OTHERWISE IS DONE BY OTHERS AND FOR COORDINATION BETWEEN THE CONTRACTORS.



REVISIONS	
NAME	DATE

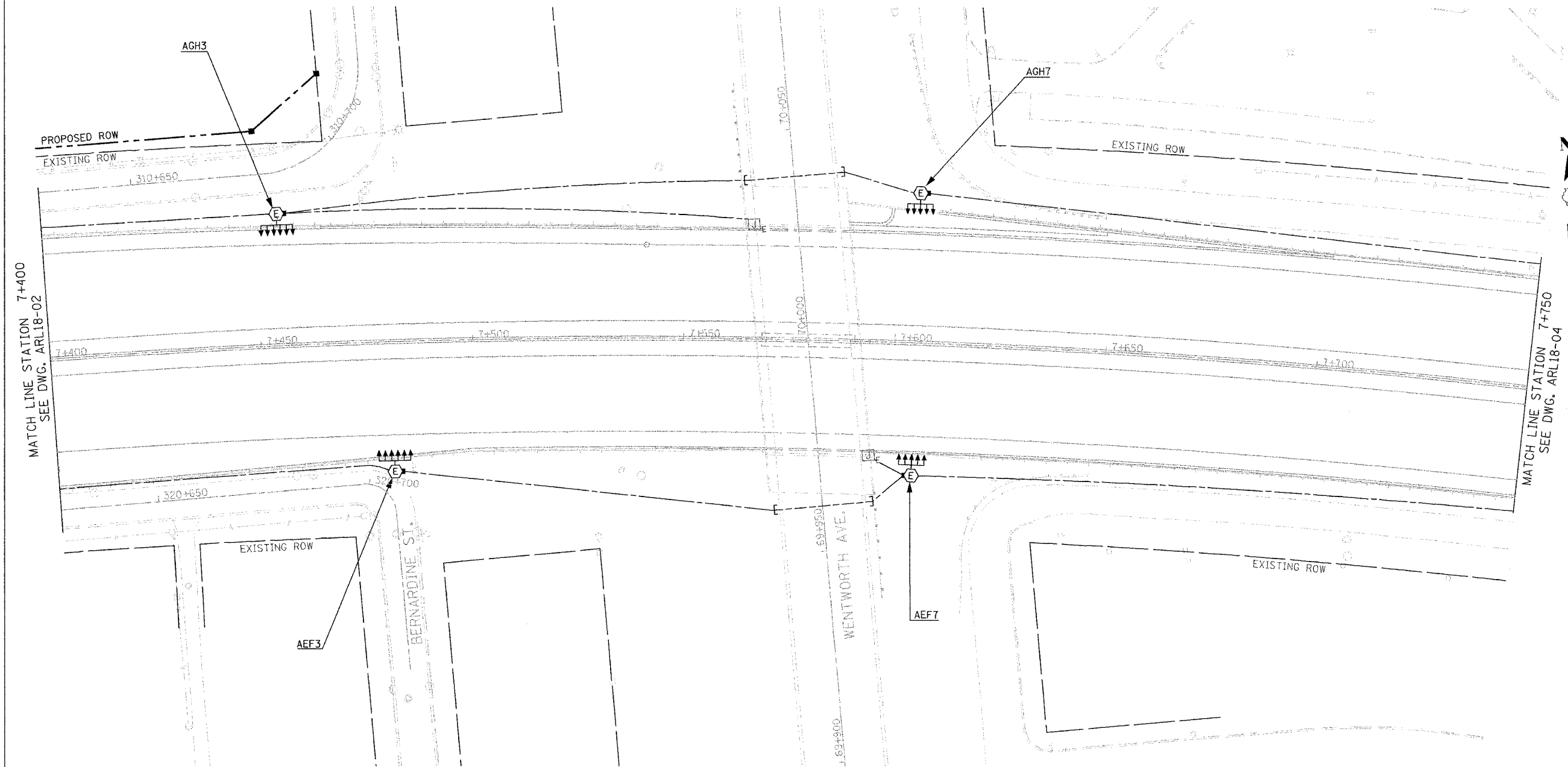
**ARL18-02**

**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**PROPOSED ROADWAY LIGHTING**  
 I-80 /94 /US-6  
**STA. 7+050 TO STA. 7+400**

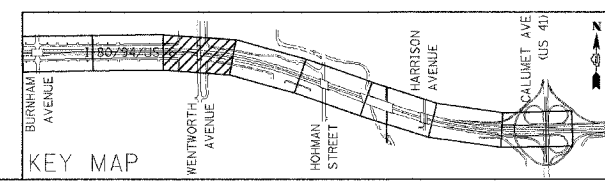
SCALE 1:500      DRAWN BY EAO/BC  
 DATE 07/18/05      CHECKED BY PKG/BC

**GO**  
GANDHI AND ASSOCIATES, INC.  
 ENGINEERS AND PLANNERS  
 8335 N. WESTWIND HIGHWAY  
 SUITE 206  
 CHICAGO, ILLINOIS 60649-1111 (773)714-5900

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2003-089I	COOK	1207	464
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT # 62114				



**NOTE:**  
 1. ALL LIGHTING WORK SHOWN HERE UNLESS NOTED OTHERWISE IS DONE BY OTHERS AND FOR COORDINATION BETWEEN THE CONTRACTORS.



REVISIONS	
NAME	DATE

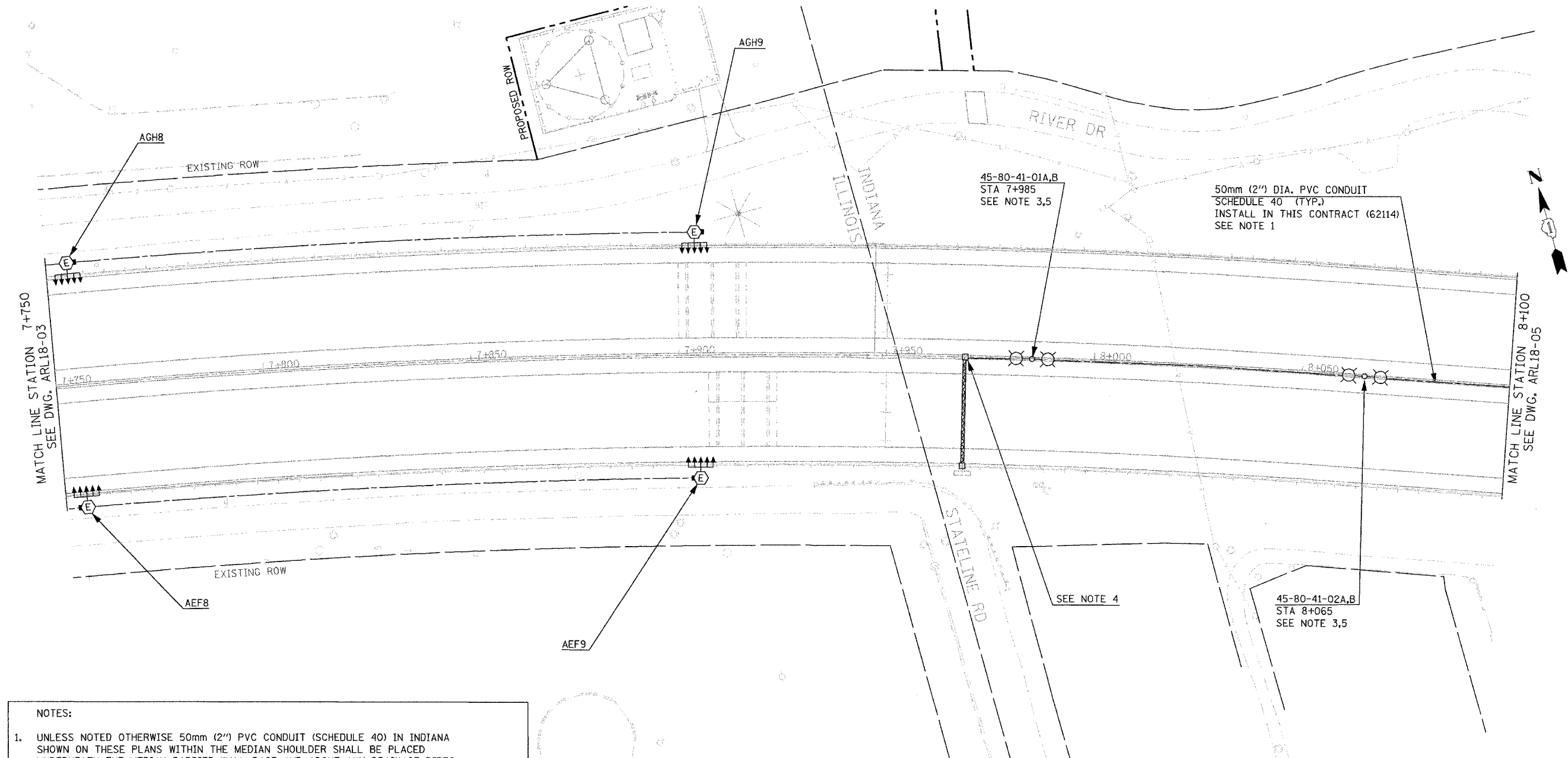
**ARL18- 03**

**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
**I-80/94/US 6**  
**KINCERY-BORMAN EXPRESSWAY**  
**BURNHAM ROAD TO US 41**  
**PROPOSED ROADWAY LIGHTING**  
**I-80 /94 /US-6**  
**STA. 7+400 TO STA. 7+750**

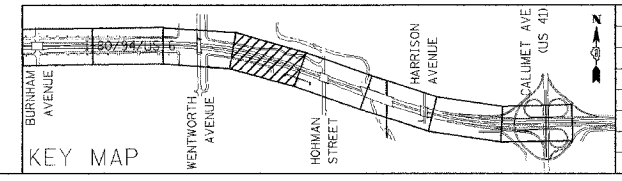
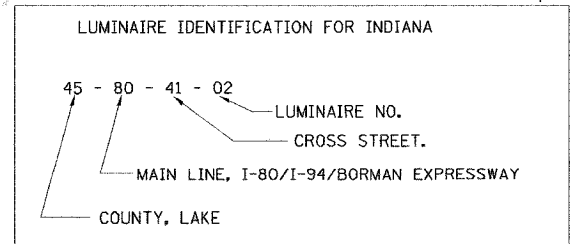
SCALE 1:500      DRAWN BY EAD/BC  
 DATE 07/18/05      CHECKED BY PKG/BC

**GO** GANDHI AND ASSOCIATES, INC.  
 ENGINEERS AND PLANNERS  
 600 N. KENTWORTH HIGHWAY  
 SUITE 200  
 CHICAGO, ILLINOIS 60642 TEL: 773/377-6900

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2003-089I	COOK	1207	465
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT # 62114				



- NOTES:**
- UNLESS NOTED OTHERWISE 50mm (2") PVC CONDUIT (SCHEDULE 40) IN INDIANA SHOWN ON THESE PLANS WITHIN THE MEDIAN SHOULDER SHALL BE PLACED UNDERNEATH THE MEDIAN BARRIER WALL BASE AND ABOVE ANY DRAINAGE PIPES.
  - ALL LIGHTING WORK SHOWN HERE UNLESS NOTED OTHERWISE IS DONE BY OTHERS AND FOR COORDINATION BETWEEN THE CONTRACTORS.
  - LIGHT POLE FOUNDATION AND CONDUITS SHALL BE FURNISHED AND INSTALLED IN THIS CONTRACT (62114). LIGHT POLE, MAST ARMS, CABLES AND LUMINAIRES SHALL BE FURNISHED AND INSTALLED IN CONTRACT 62664. ANCHOR BOLTS SHALL BE FURNISHED BY CONTRACT 62664 AND SHALL BE INSTALLED IN THIS CONTRACT (62114). CONTRACTORS ARE RESPONSIBLE TO COORDINATE ACCORDINGLY.
  - FOR CONDUIT STUBOUTS SEE THE SIGN STRUCTURE FOUNDATION DETAILS.
  - SEE THE INDIANA STANDARD FOUNDATION DETAIL ATTACHED. THE CONDUITS RUNNING UNDERNEATH THE MEDIAN BARRIER WALL SHALL RUN FROM POLE FOUNDATION TO POLE FOUNDATION. JUNCTION BOX SHOWN IN THE INDIANA STANDARD DETAIL AS ATTACHED TO THE FOUNDATION IS NOT REQUIRED. WHERE THERE ARE TWO CONDUITS RUNNING UNDERNEATH THE MEDIAN BARRIER WALL, EACH CONDUIT WILL BYPASS THE ALTERNATE FOUNDATION TO GO TO THE NEXT POLE FOUNDATION.



REVISIONS	
NAME	DATE

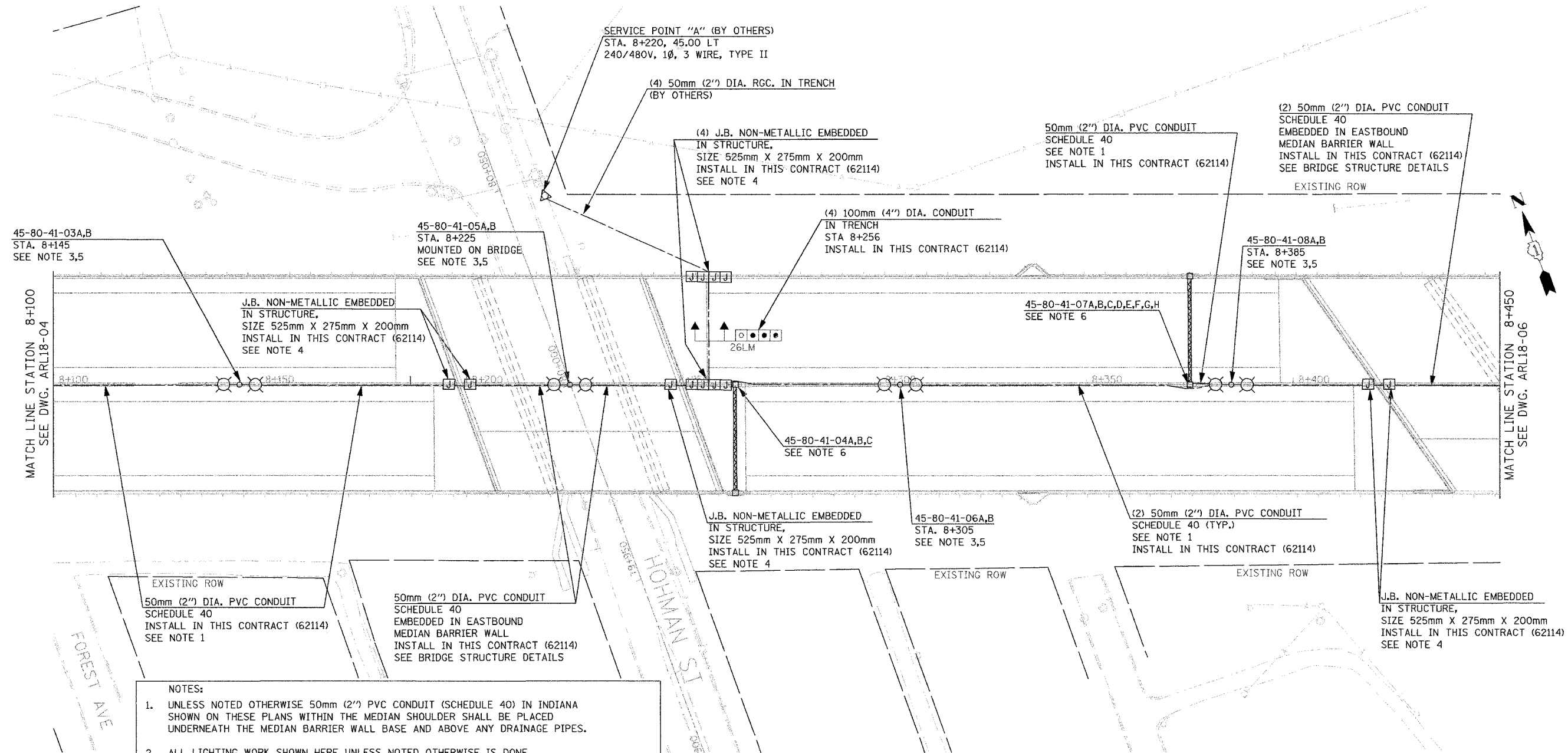
**ARL18-04**

**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
**I-80/94/US 6**  
**KINGERY-BORMAN EXPRESSWAY**  
**BURNHAM ROAD TO US 41**  
**PROPOSED ROADWAY LIGHTING**  
**I-80 /94 /US-6**  
**STA. 7+750 TO STA. 8+100**

SCALE 1:500      DRAWN BY EAO/BC  
DATE 07/18/05      CHECKED BY PKG/BC

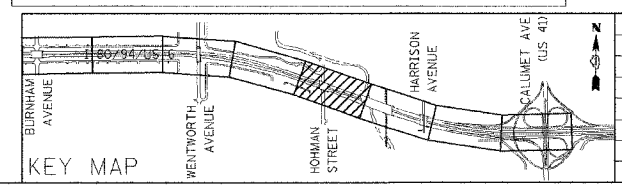
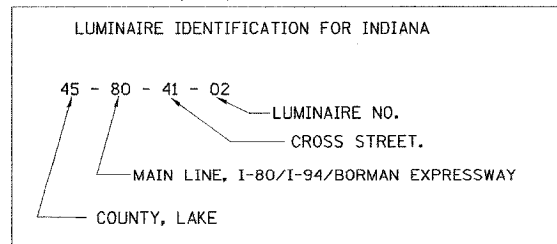
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#T124

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2003-0891	COOK	1207	466
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT # 62114				



**NOTES:**

- UNLESS NOTED OTHERWISE 50mm (2") PVC CONDUIT (SCHEDULE 40) IN INDIANA SHOWN ON THESE PLANS WITHIN THE MEDIAN SHOULDER SHALL BE PLACED UNDERNEATH THE MEDIAN BARRIER WALL BASE AND ABOVE ANY DRAINAGE PIPES.
- ALL LIGHTING WORK SHOWN HERE UNLESS NOTED OTHERWISE IS DONE BY OTHERS AND FOR COORDINATION BETWEEN THE CONTRACTORS.
- LIGHT POLE FOUNDATION AND CONDUITS SHALL BE FURNISHED AND INSTALLED IN THIS CONTRACT (62114). LIGHT POLE, MAST ARMS, CABLES AND LUMINAIRES SHALL BE FURNISHED AND INSTALLED IN CONTRACT 62664. ANCHOR BOLTS SHALL BE FURNISHED BY CONTRACT 62664 AND SHALL BE INSTALLED IN THIS CONTRACT (62114). CONTRACTORS ARE RESPONSIBLE TO COORDINATE ACCORDINGLY.
- FOR JUNCTION BOXES INSTALLATION AND CONDUIT TRANSITION SEE DETAILS SHEET NO. ADL18-01 AND ADL18-02.
- SEE THE INDIANA STANDARD FOUNDATION DETAIL ATTACHED. THE CONDUITS RUNNING UNDERNEATH THE MEDIAN BARRIER WALL SHALL RUN FROM POLE FOUNDATION TO POLE FOUNDATION. JUNCTION BOX SHOWN IN THE INDIANA STANDARD DETAIL AS ATTACHED TO THE FOUNDATION IS NOT REQUIRED. WHERE THERE ARE TWO CONDUITS RUNNING UNDERNEATH THE MEDIAN BARRIER WALL, EACH CONDUIT WILL BYPASS THE ALTERNATE FOUNDATION TO GO TO THE NEXT POLE FOUNDATION.
- SEE DETAIL SHEET NO. ADL18-01 FOR CONDUIT TRANSITION AT SIGN FOUNDATION AND FOR CONDUIT STUBOUTS SEE THE SIGN STRUCTURE FOUNDATION DETAILS.



REVISIONS	
NAME	DATE

**ARL18-05**

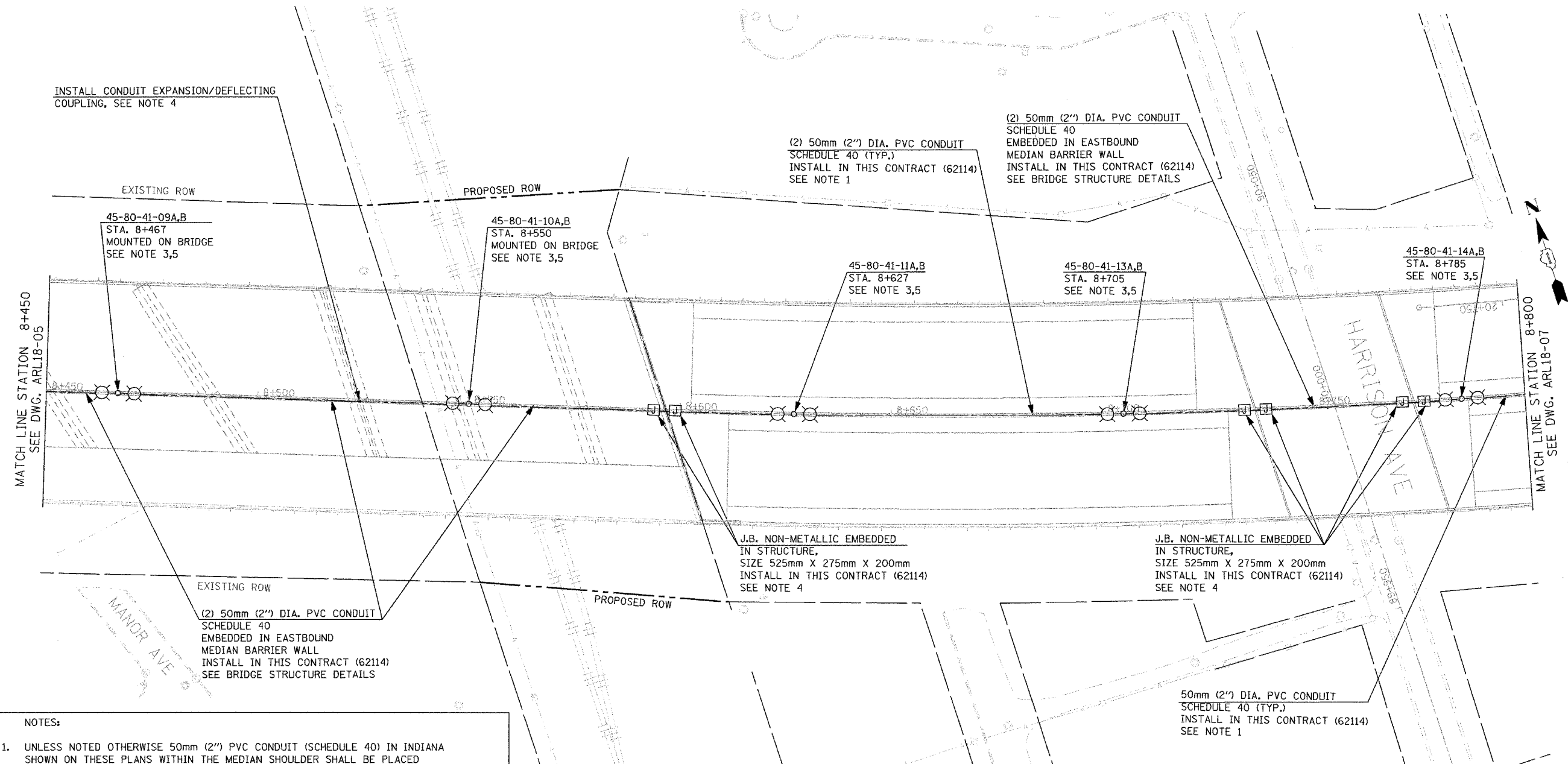
**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
**I-80/94/US 6**  
**KINGERY-BORMAN EXPRESSWAY**  
**BURNHAM ROAD TO US 41**  
**PROPOSED ROADWAY LIGHTING**  
**I-80 /94 /US-6**  
**STA. 8 + 100 TO STA. 8 + 450**

SCALE 1:500 DRAWN BY EA0/BC  
DATE 07/18/05 CHECKED BY PKG/BC

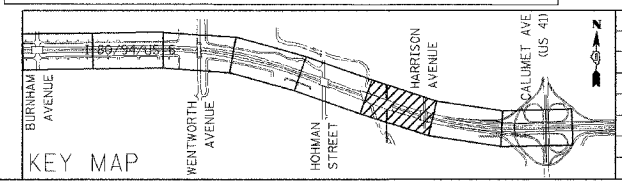
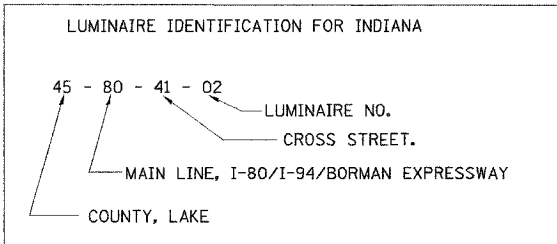
**GO**  
GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
1200 N. NORTHWEST HIGHWAY  
SUITE 200  
CHICAGO, ILLINOIS 60618 TEL: 312/737-5900

471519  
471519  
471519

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2003-0891	COOK	1207	467
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT # 62114	



- NOTES:
- UNLESS NOTED OTHERWISE 50mm (2") PVC CONDUIT (SCHEDULE 40) IN INDIANA SHOWN ON THESE PLANS WITHIN THE MEDIAN SHOULDER SHALL BE PLACED UNDERNEATH THE MEDIAN BARRIER WALL BASE AND ABOVE ANY DRAINAGE PIPES.
  - ALL LIGHTING WORK SHOWN HERE UNLESS NOTED OTHERWISE IS DONE BY OTHERS AND FOR COORDINATION BETWEEN THE CONTRACTORS.
  - LIGHT POLE FOUNDATION AND CONDUITS SHALL BE FURNISHED AND INSTALLED IN THIS CONTRACT (62114). LIGHT POLE, MAST ARMS, CABLES AND LUMINAIRES SHALL BE FURNISHED AND INSTALLED IN CONTRACT 62664. ANCHOR BOLTS SHALL BE FURNISHED BY CONTRACT 62664 AND SHALL BE INSTALLED IN THIS CONTRACT (62114). CONTRACTORS ARE RESPONSIBLE TO COORDINATE ACCORDINGLY.
  - FOR JUNCTION BOXES INSTALLATION AND CONDUIT TRANSITION SEE DETAILS SHEET NO. ADL18-01.
  - SEE THE INDIANA STANDARD FOUNDATION DETAIL ATTACHED. THE CONDUITS RUNNING UNDERNEATH THE MEDIAN BARRIER WALL SHALL RUN FROM POLE FOUNDATION TO POLE FOUNDATION. JUNCTION BOX SHOWN IN THE INDIANA STANDARD DETAIL AS ATTACHED TO THE FOUNDATION IS NOT REQUIRED. WHERE THERE ARE TWO CONDUITS RUNNING UNDERNEATH THE MEDIAN BARRIER WALL, EACH CONDUIT WILL BYPASS THE ALTERNATE FOUNDATION TO GO TO THE NEXT POLE FOUNDATION.



REVISIONS	
NAME	DATE

ARL18-06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
PROPOSED ROADWAY LIGHTING  
I-80/94/US-6  
STA. 8+450 TO STA. 8+800

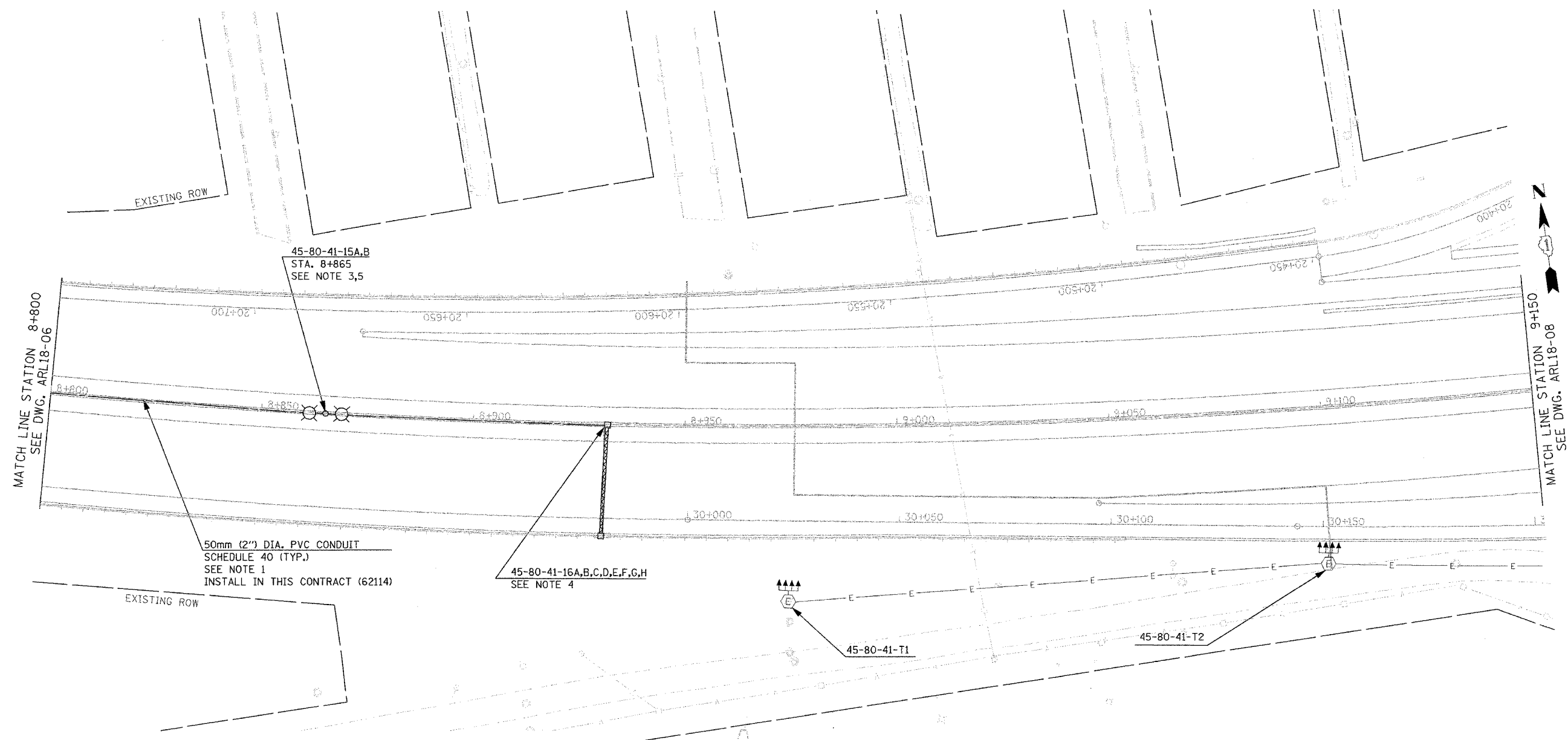
SCALE 1:500 DRAWN BY EAD/BC  
DATE 07/18/05 CHECKED BY PKG/BC

GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
800 N. WILSON AVENUE  
SUITE 300  
CHICAGO, ILLINOIS 60611 TEL: (773) 774-6900

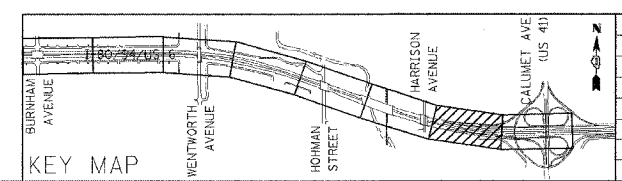
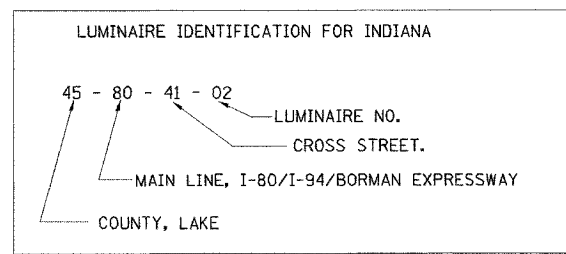
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2003-089I	COOK	1207	468
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT # 62114				



- NOTES:
- UNLESS NOTED OTHERWISE 50mm (2") PVC CONDUIT (SCHEDULE 40) IN INDIANA SHOWN ON THESE PLANS WITHIN THE MEDIAN SHOULDER SHALL BE PLACED UNDERNEATH THE MEDIAN BARRIER WALL BASE AND ABOVE ANY DRAINAGE PIPES.
  - ALL LIGHTING WORK SHOWN HERE UNLESS NOTED OTHERWISE IS DONE BY OTHERS AND FOR COORDINATION BETWEEN THE CONTRACTORS.
  - LIGHT POLE FOUNDATION AND CONDUITS SHALL BE FURNISHED AND INSTALLED IN THIS CONTRACT (62114). LIGHT POLE, MAST ARMS, CABLES AND LUMINAIRES SHALL BE FURNISHED AND INSTALLED IN CONTRACT 62664. ANCHOR BOLTS SHALL BE FURNISHED BY CONTRACT 62664 AND SHALL BE INSTALLED IN THIS CONTRACT (62114). CONTRACTORS ARE RESPONSIBLE TO COORDINATE ACCORDINGLY.
  - FOR CONDUIT STUBOUTS SEE THE SIGN STRUCTURE FOUNDATION DETAILS.
  - SEE THE INDIANA STANDARD FOUNDATION DETAIL ATTACHED. THE CONDUITS RUNNING UNDERNEATH THE MEDIAN BARRIER WALL SHALL RUN FROM POLE FOUNDATION TO POLE FOUNDATION. JUNCTION BOX SHOWN IN THE INDIANA STANDARD DETAIL AS ATTACHED TO THE FOUNDATION IS NOT REQUIRED. WHERE THERE ARE TWO CONDUITS RUNNING UNDERNEATH THE MEDIAN BARRIER WALL, EACH CONDUIT WILL BYPASS THE ALTERNATE FOUNDATION TO GO TO THE NEXT POLE FOUNDATION.



REVISIONS	
NAME	DATE

ARL18-07

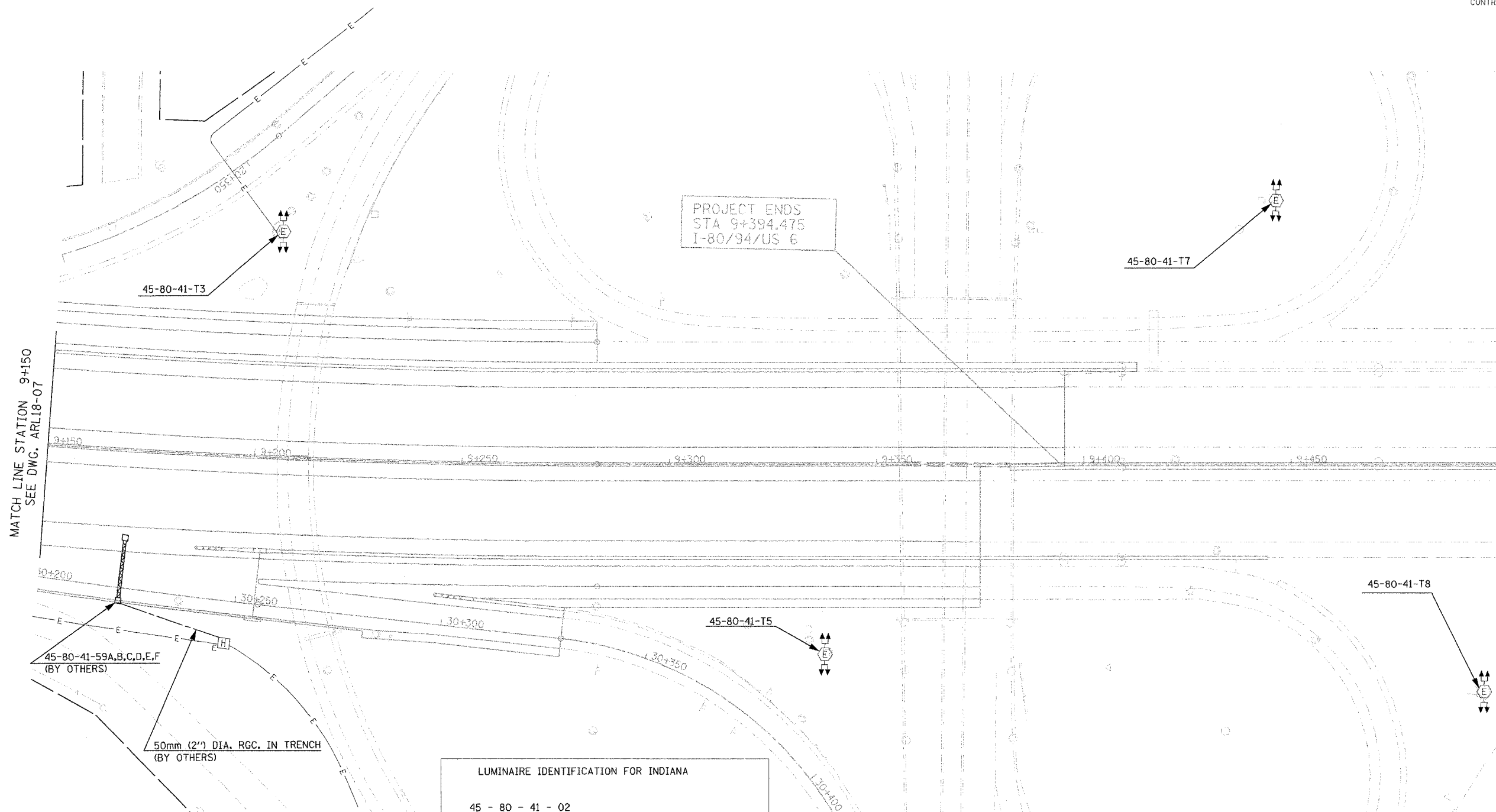
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**PROPOSED ROADWAY LIGHTING**  
 I-80 /94 /US-6  
**STA. 8 + 800 TO STA. 9 + 150**

SCALE 1:500 DRAWN BY EAO/BC  
 DATE 07/18/05 CHECKED BY PKG/BC

GANDHI AND ASSOCIATES, INC.  
 ENGINEERS AND PLANNERS  
 200 N. BURNHAM STREET  
 SUITE 206  
 CHICAGO, ILLINOIS 60663 TEL: (773) 714-5900

FILES  
 DATE  
 TIME

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2003-089I	COOK	1207	469
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		CONTRACT # 62114		

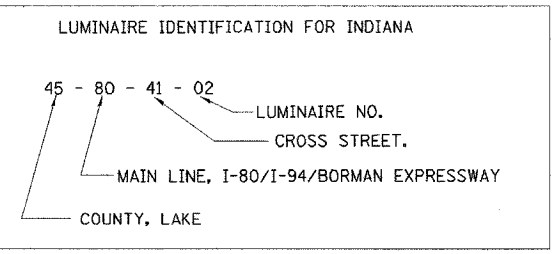


PROJECT ENDS  
STA 9+394.475  
I-80/94/US 6

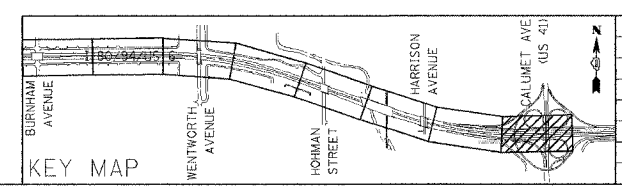
MATCH LINE STATION 9+150  
SEE DWG. ARL18-07

45-80-41-59A,B,C,D,E,F  
(BY OTHERS)

50mm (2") DIA. RGC. IN TRENCH  
(BY OTHERS)



NOTE:  
1. ALL LIGHTING WORK SHOWN HERE UNLESS NOTED OTHERWISE IS DONE BY OTHERS AND FOR COORDINATION BETWEEN THE CONTRACTORS.



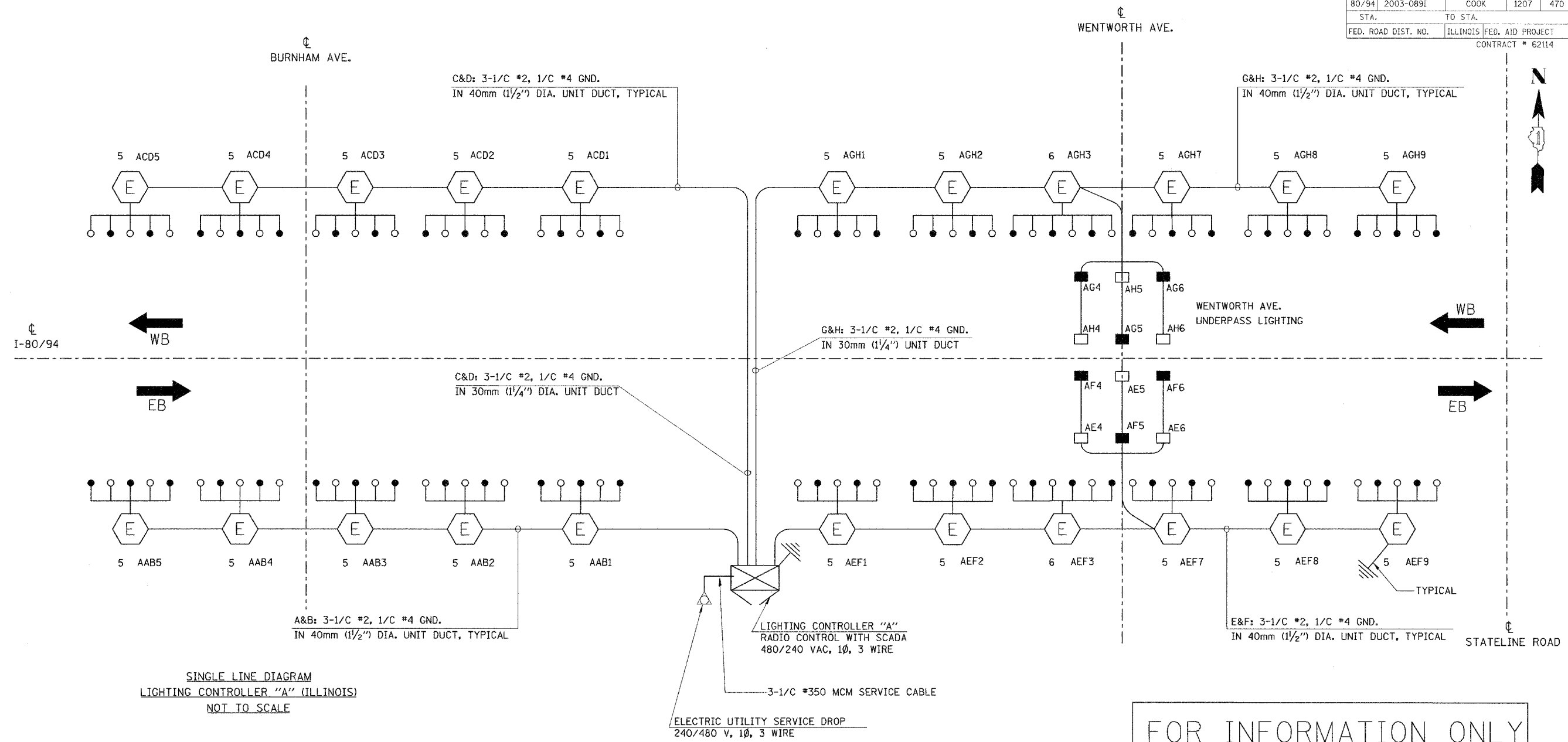
REVISIONS	
NAME	DATE

ARL18-08

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
PROPOSED ROADWAY LIGHTING  
I-80 /94 /US-6  
STA. 9+150 TO STA. 9+394.475  
SCALE 1:500 DRAWN BY EAD/BC  
DATE 07/18/05 CHECKED BY PKG/BC

GANDH AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
8000 N. NORTHWEST HIGHWAY  
SUITE 300  
CHICAGO, ILLINOIS 60631 TEL: (773) 714-5900

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2003-089I	COOK	1207	470
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT # 62114				



FOR INFORMATION ONLY

LOAD TABLE LIGHTING CONTROLLER "A" (ILLINOIS)					
CIRCUIT	RED PHASE		CIRCUIT	BLACK PHASE	
	AMPS	WATTS		AMPS	WATTS
A	24.0	5760	B	26.0	6240
C	26.0	6240	D	24.0	5760
E	33.2	7968	F	31.2	7488
G	31.2	7488	H	33.2	7968
<b>TOTAL</b>	<b>114.4</b>	<b>27456</b>	<b>TOTAL</b>	<b>114.4</b>	<b>27456</b>

**LEGEND**

- HIGH MAST LIGHTING TOWER
  - 400W. HPS LUMINAIRE (BLACK PHASE-SOLID SYMBOL, RED PHASE-OPEN SYMBOL)
  - TOWER TYPE
  - HIGH MAST LIGHTING TOWER DESIGNATION
  - UNDERPASS LIGHTING UNIT, 70WATT HPS LUMINAIRE, (BLACK PHASE-SOLID SYMBOL, RED PHASE-OPEN SYMBOL)
  - LIGHTED SIGN STRUCTURE WITH 170WATT FLUORESCENT LUMINAIRES, QUANTITY OF LUMINAIRES AS REQUIRED, (BLACK PHASE-SOLID SYMBOL, RED PHASE-OPEN SYMBOL)
  - LIGHTING CONTROLLER
  - GROUND FIELD
  - ELECTRIC UTILITY SERVICE
- | TYPE | TOWER HEIGHT   |
|------|----------------|
| 1    | 30.0m (100ft.) |
| 2    | 33.5m (110ft.) |
| 3    | 36.5m (120ft.) |
| 4    | 40.0m (130ft.) |
| 5    | 42.5m (140ft.) |
| 6    | 45.5m (150ft.) |

REVISIONS	
NAME	DATE

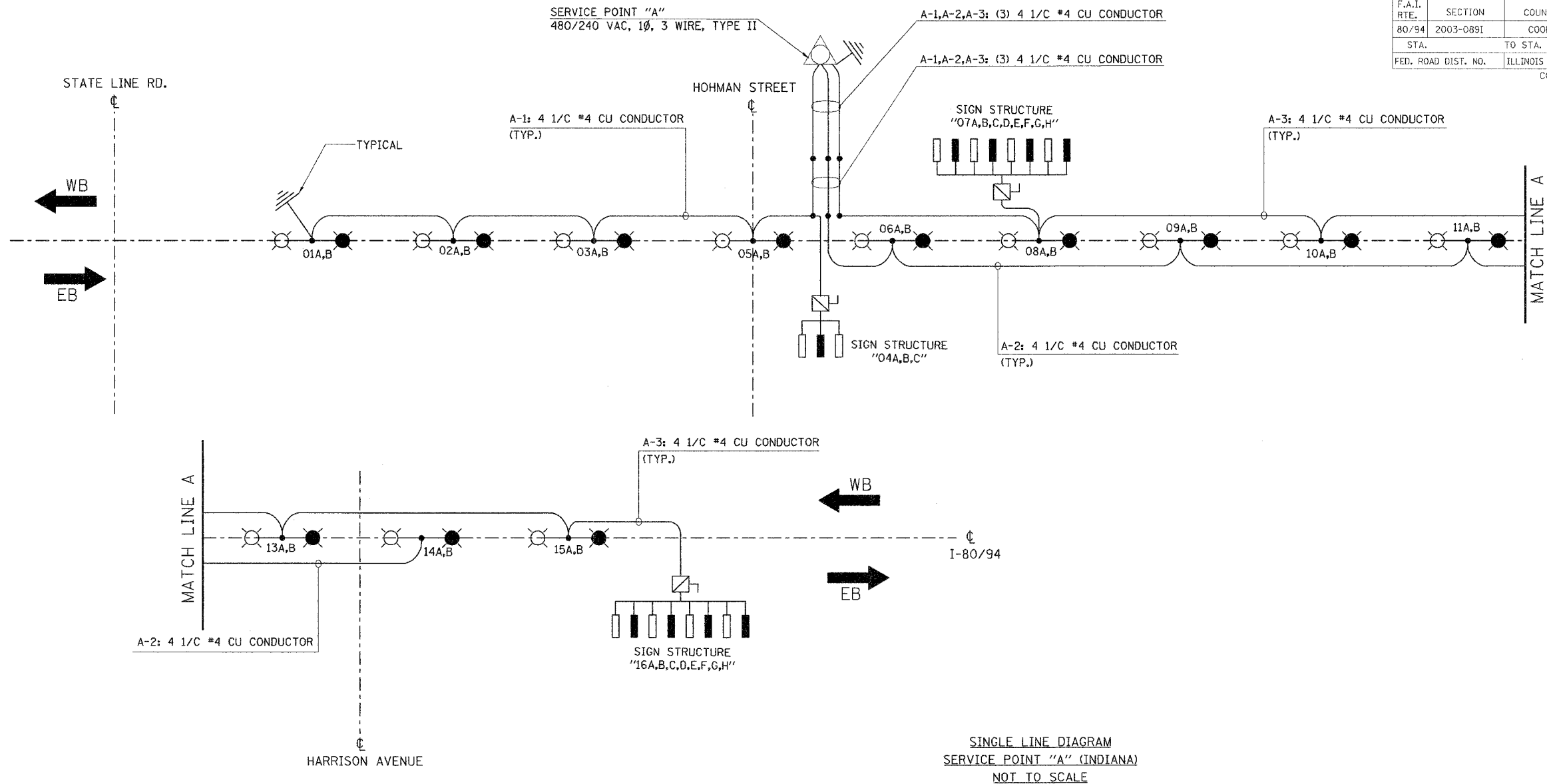
**AW18-01**

**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
I-80/94/US 6  
KINCERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
SINGLE LINE DIAGRAM  
LIGHTING CONTROLLER "A"  
(ILLINOIS)  
PROPOSED ROADWAY LIGHTING  
SCALE NONE DRAWN BY EAO/BC  
DATE 07/18/05 CHECKED BY PKG/BC

GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
505 N. KENTWORTH HIGHWAY  
SUITE 306  
CHICAGO, ILLINOIS 60648 TEL: 312/714-5900

#1323  
#10429  
#12064



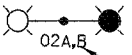


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2003-089I	COOK	1207	471
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT # 62114	



SINGLE LINE DIAGRAM  
SERVICE POINT "A" (INDIANA)  
NOT TO SCALE

CIRCUIT	BLACK PHASE		CIRCUIT	RED PHASE	
	AMPS	WATTS		AMPS	WATTS
A-1	9.3	2232	A-1	10.6	2544
A-2	8.0	1920	A-2	8.0	1920
A-3	18.4	4416	A-3	18.4	4416
TOTAL	35.7	8568	TOTAL	37.0	8880

LEGEND

-  SERVICE POINT, TYPE II
-  GROUND FIELD
-  HOLOPHANE MONGOOSE LIGHTING STRUCTURE WITH 2-400WATT HPS LUMINAIRES WITH THE PHOTOMETRIC CURVE NO. 51132 ON ANCHOR BASE.
-  LUMINAIRE NO.
-  LIGHTED SIGN STRUCTURE WITH 250WATT MERCURY VAPOR LUMINAIRES, QUANTITY OF LUMINAIRES AS REQUIRED, (BLACK PHASE-SOLID SYMBOL, RED PHASE-OPEN SYMBOL)

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

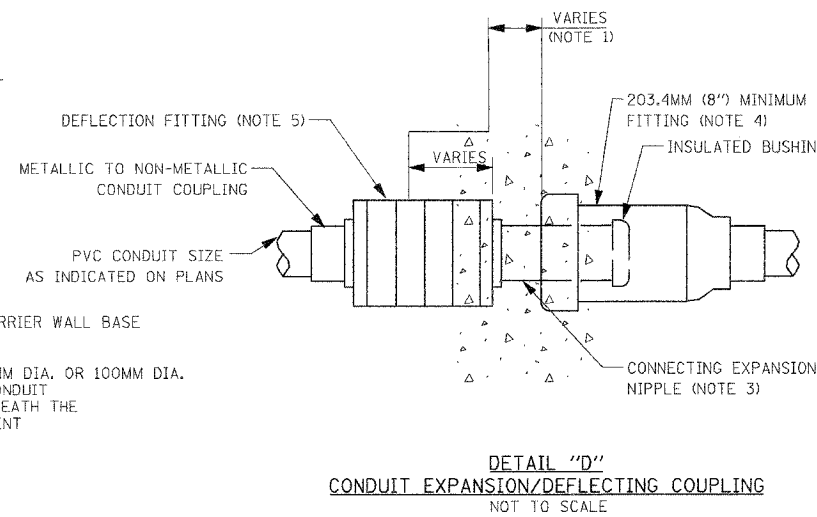
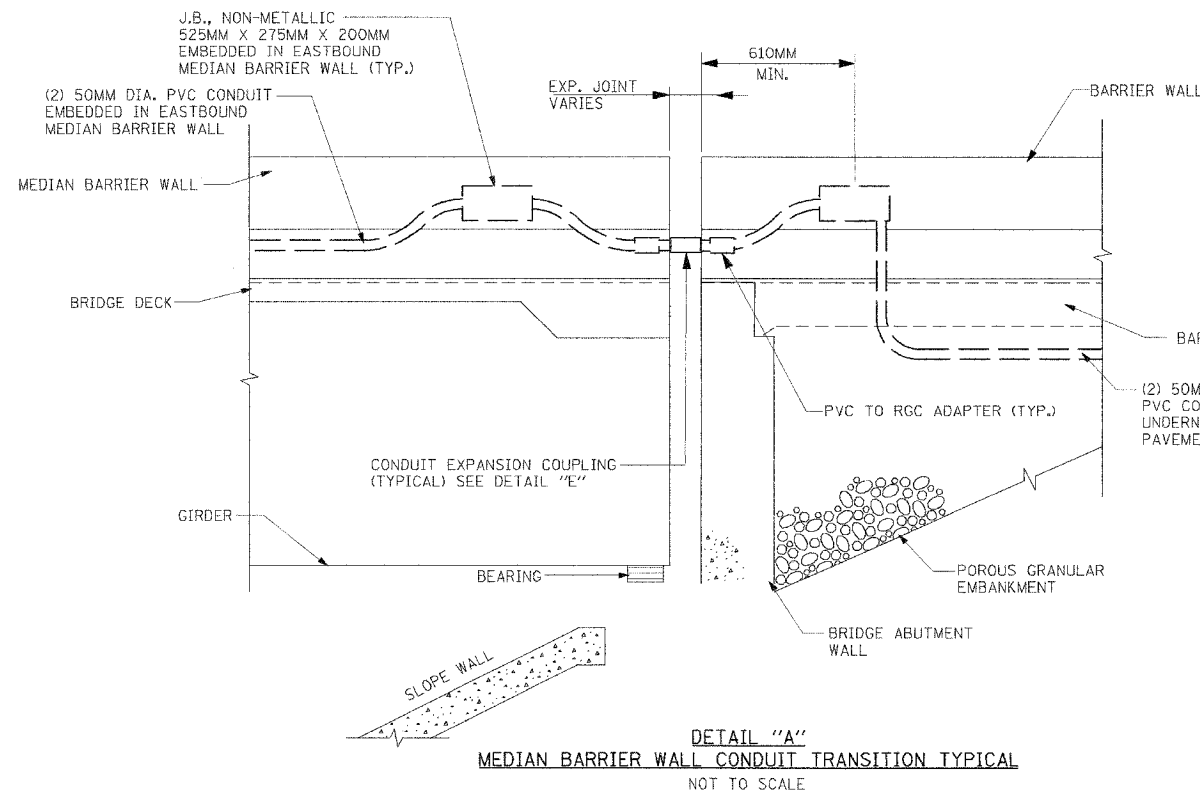
AWE18-02

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
SINGLE LINE DIAGRAM  
SERVICE POINT "A"  
(INDIANA)  
PROPOSED ROADWAY LIGHTING  
SCALE NONE DRAWN BY EAO/BC  
DATE 07/18/05 CHECKED BY PKG/BC

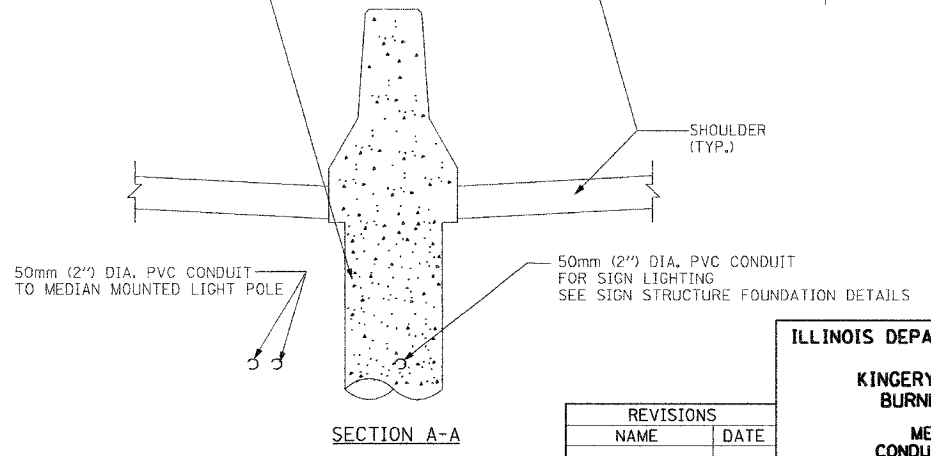
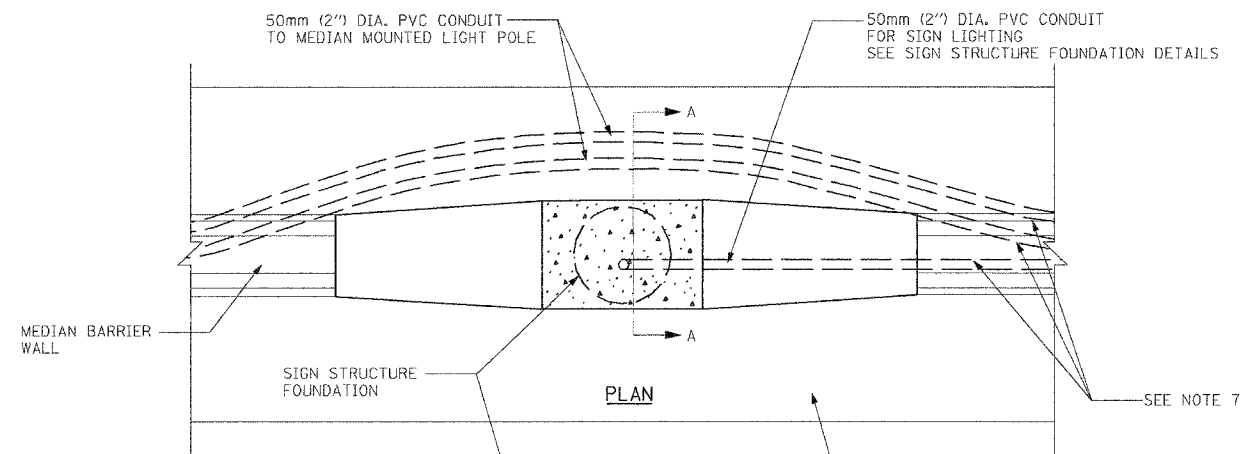
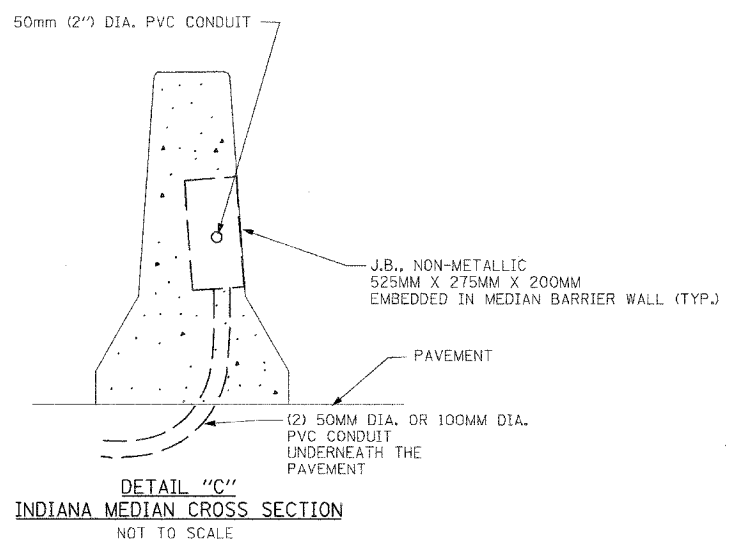
GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
8335 N. WESTWIND HIGHWAY  
SUITE 206  
CHICAGO, ILLINOIS 60648 TEL: 773/974-5900

8/12/04  
8/10/04  
8/13/04

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2003-089I	COOK	1207	472
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT # 62114	



- NOTES:
- REFER TO STRUCTURAL DRAWINGS FOR EACH EXPANSION JOINT LOCATION AND EACH EXPANSION JOINT WIDTH.
  - SEE STRUCTURAL DRAWINGS FOR DETAILS. THE INSERTS FOR CONDUITS SHALL BE SPACED AT 1.5M ON CENTER AND 610MM FROM THE JUNCTION BOX.
  - PROVIDE REQUIRED LENGTH OF CONNECTING EXPANSION NIPPLE. REFER TO STRUCTURAL DRAWINGS FOR THE EXPANSION JOINT CHARACTERISTICS.
  - THE BARREL OF THE FITTING SHALL BE FULLY EMBEDDED IN THE CONCRETE OF ONE SIDE OF THE EXPANSION JOINT.
  - A CAVITY OPENING, IF REQUIRED, SHALL BE 76.2MM LARGER IN DIAMETER AND A MAXIMUM DEPTH OF HALF OF THE DEFLECTION SLEEVE LENGTH. THE DEFLECTION FITTING SHALL BE CENTERED IN THE OPENING AND EMBEDDED IN THE CONCRETE ONLY UP TO THE DEFLECTION FITTING CENTER.
  - PVC TO RGC ADAPTER IS INCIDENTAL TO THE COST OF RGC CONDUIT. NO SEPARATE PAYMENT WILL BE MADE.
  - 50mm (2") DIA. PVC CONDUIT SHALL BE PLACED UNDERNEATH THE MEDIAN BARRIER WALL AND ABOVE ANY DRAINAGE PIPES.



DETAIL "B"  
TYPICAL CONDUIT TRANSITION AT  
SIGN STRUCTURE FOUNDATION  
NOT TO SCALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
MEDIAN BARRIER WALL  
CONDUIT TRANSITION DETAILS

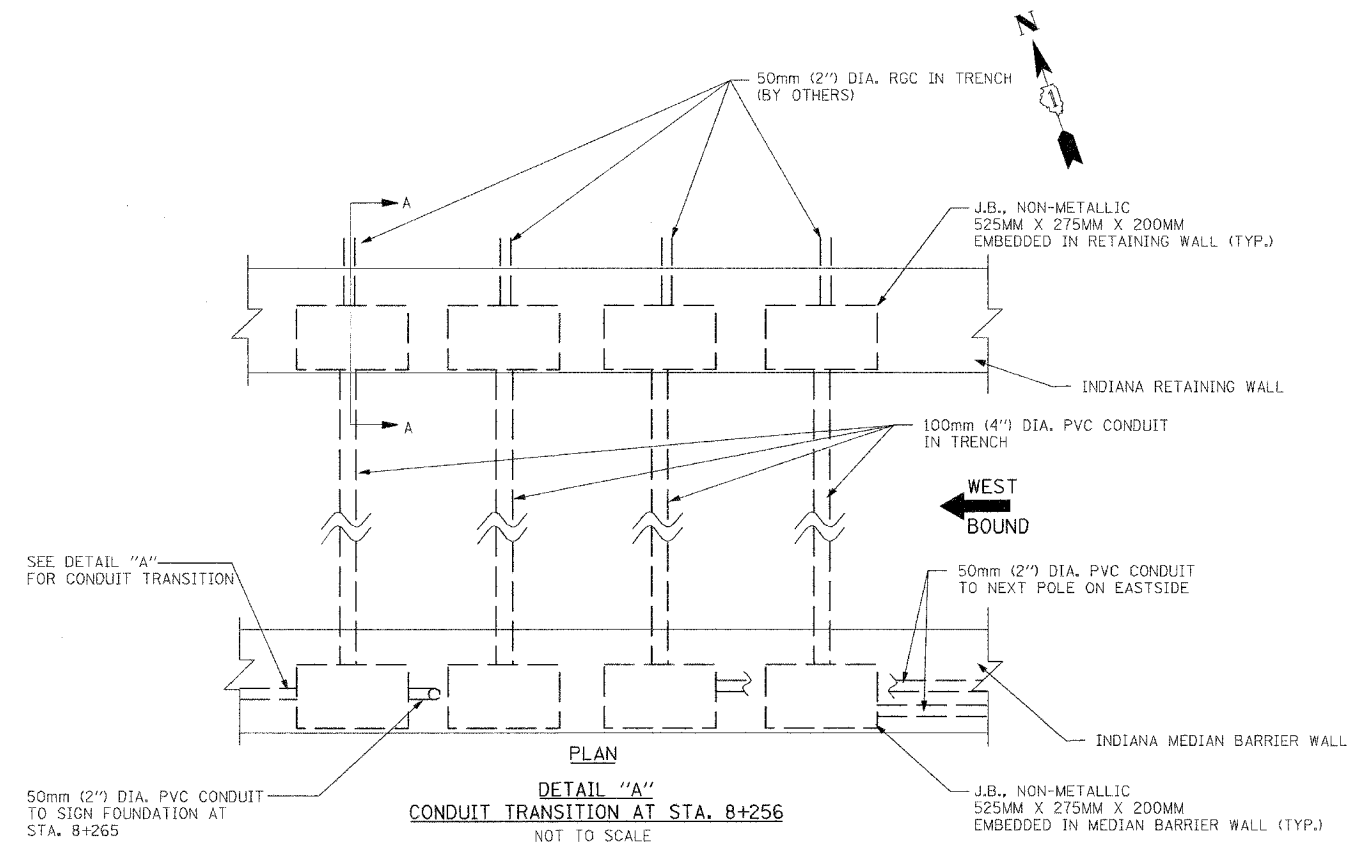
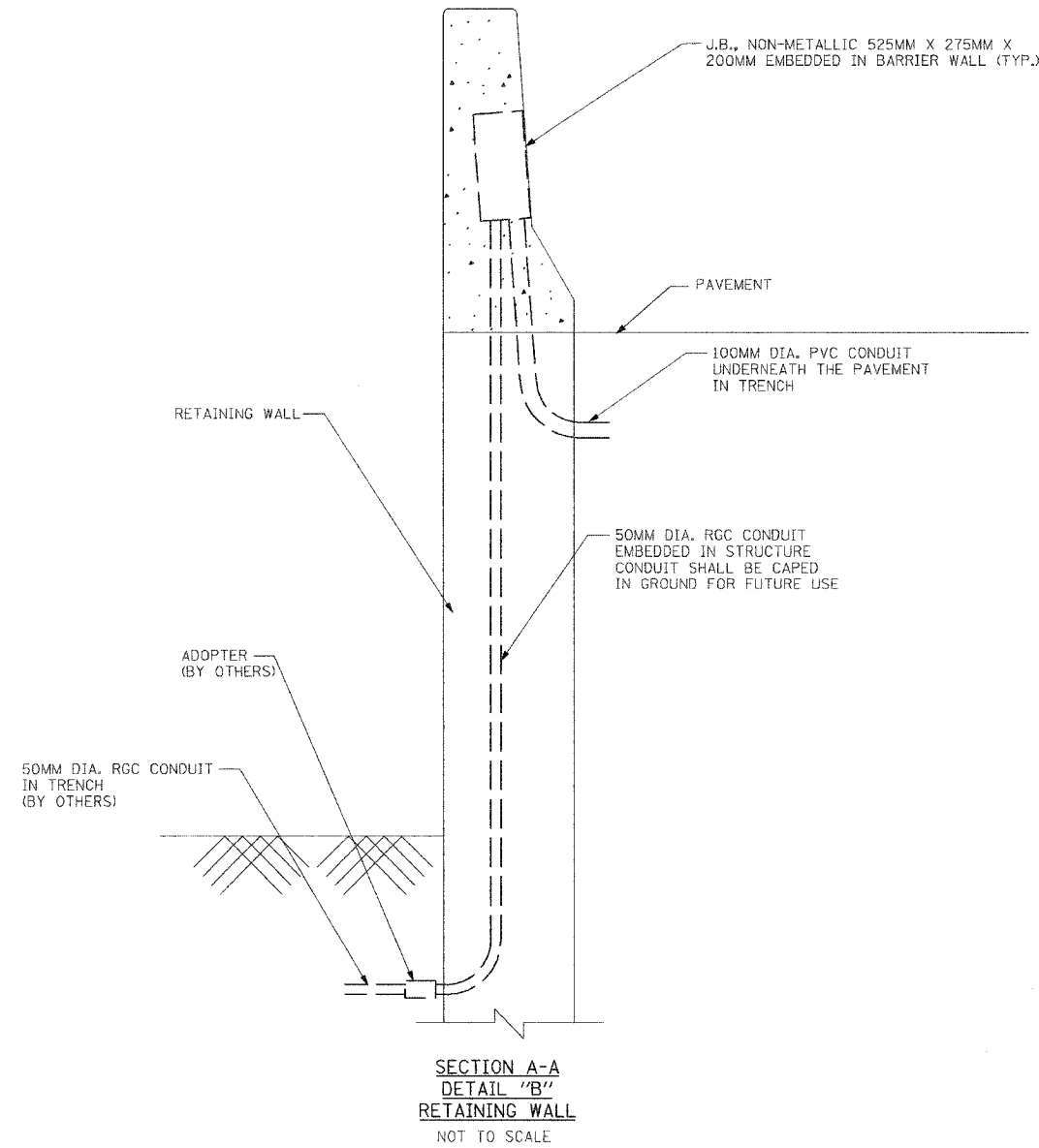
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DATE 07/18/05  
DRAWN BY EAO/BC  
CHECKED BY PKG/BC

ADL18-01

GANDHI AND ASSOCIATES, INC.  
ENGINEERS AND PLANNERS  
4335 N. WESTWIND HIGHWAY  
SUITE 306  
CHICAGO, ILLINOIS 60630 TEL: (773) 714-9910

#P3.04  
#DATE#  
#TIME#

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2003-089I	COOK	1207	472A
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT # 62114				

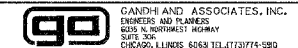


ADL18-02

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

**RETAINING WALL  
CONDUIT TRANSITION DETAILS**

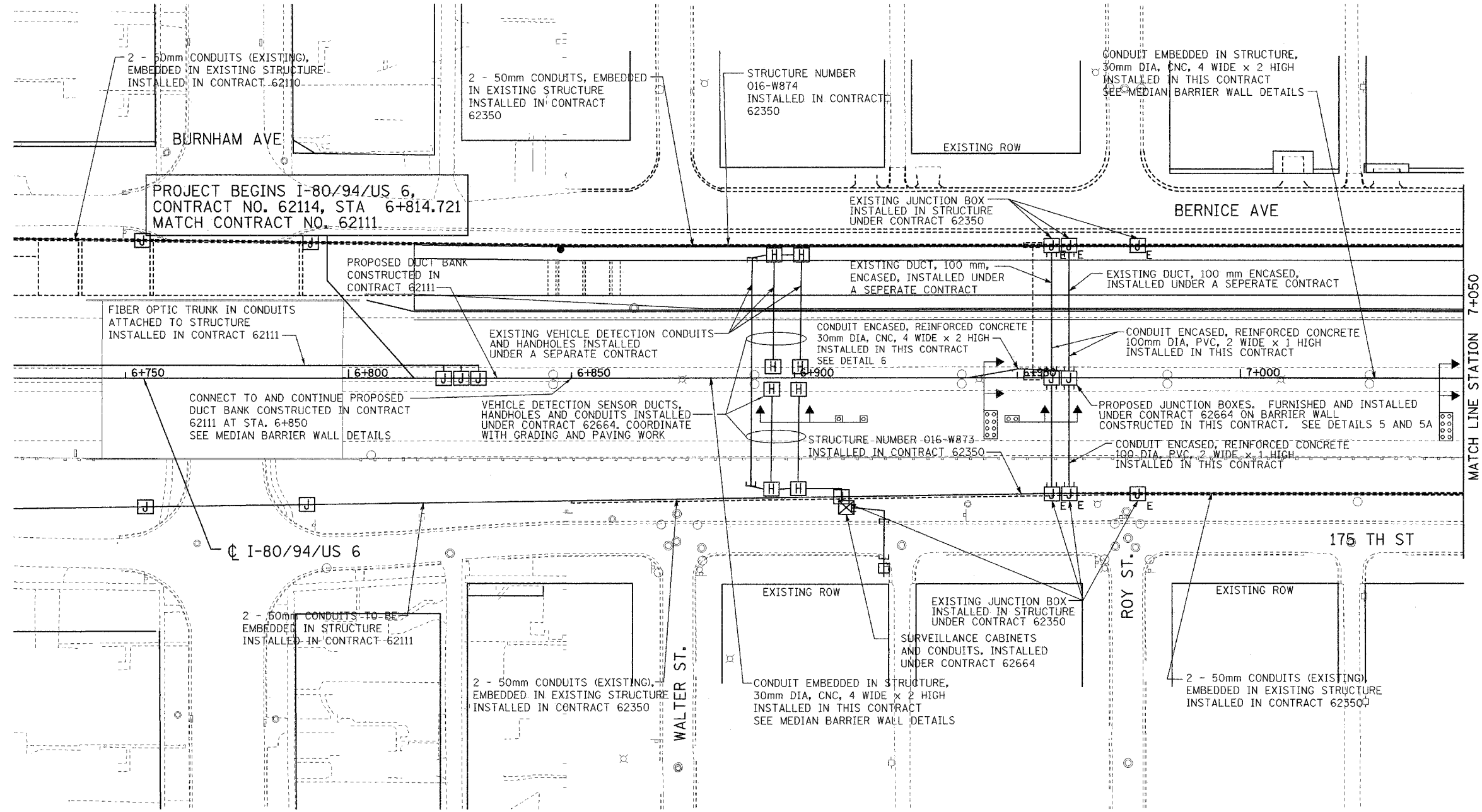
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DATE 07/18/05 CHECKED BY PKG/BC



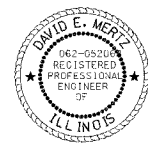
REVISIONS	
NAME	DATE

ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE.

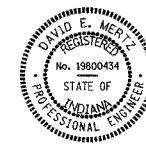
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80/94	2626.2-R-2	COOK	1207	473
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT #62114	INDOT DES. NO. 0100987			



THESE SEALS APPLY TO SHEETS 473 THRU 488 ONLY

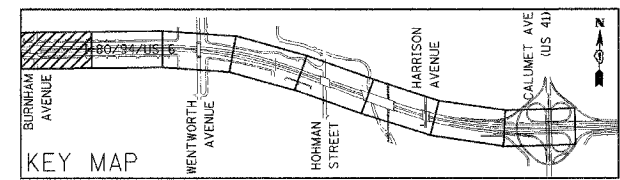


*David E. Mertz*  
 DAVID E. MERTZ, P.E.  
 IL. REG. NO. 062-052068  
 EXPIRES: 30 NOV 2005  
 DATE: 15 August 2005



*David E. Mertz*  
 DAVID E. MERTZ, P.E.  
 IN. REG. NO. 19800434  
 EXPIRES: 31 JULY 2006  
 DATE: 15 August 2005

NOTE:  
 SEE SHEET GE-1 FOR ELECTRICAL LEGEND.  
 (TYPICAL FOR ALL ELECTRICAL SHEETS)



REVISIONS	
NAME	DATE

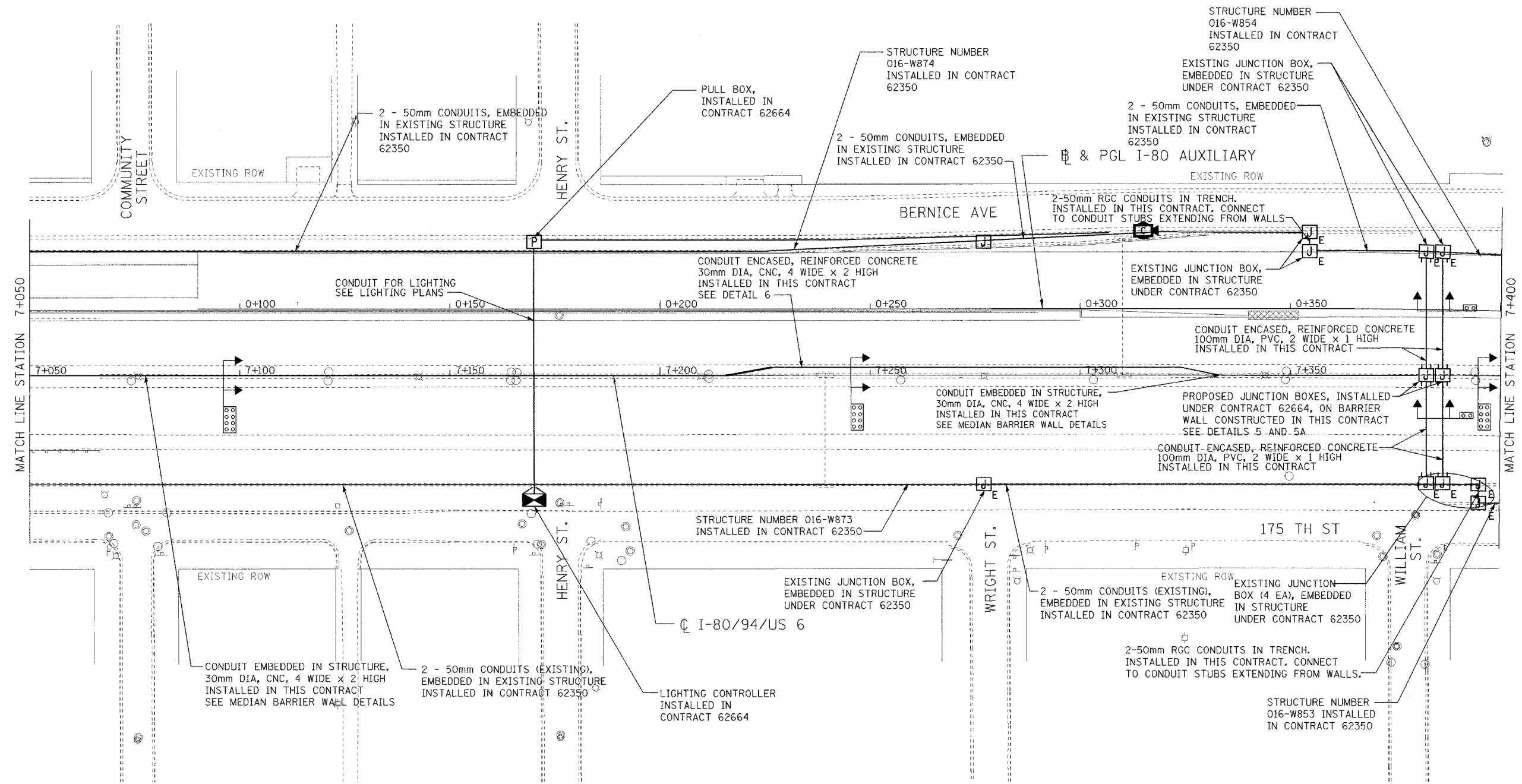
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**ELECTRICAL INSTALLATION PLAN**  
 STA. 6 + 814.721 TO STA. 7 + 050  
 SCALE 1:1500  
 DATE 07/05  
 DRAWN BY JRH  
 CHECKED BY DEM

SHEET 1 OF 16

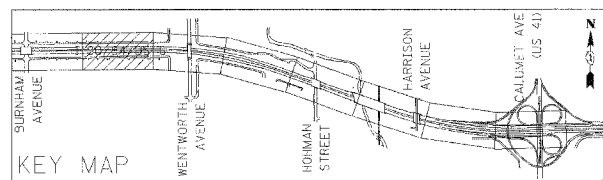
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ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK	1207	474
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT #62114	INDOT DES. NO. 0100987			



SHEET 2 OF 16



REVISIONS	
NAME	DATE

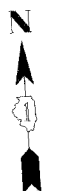
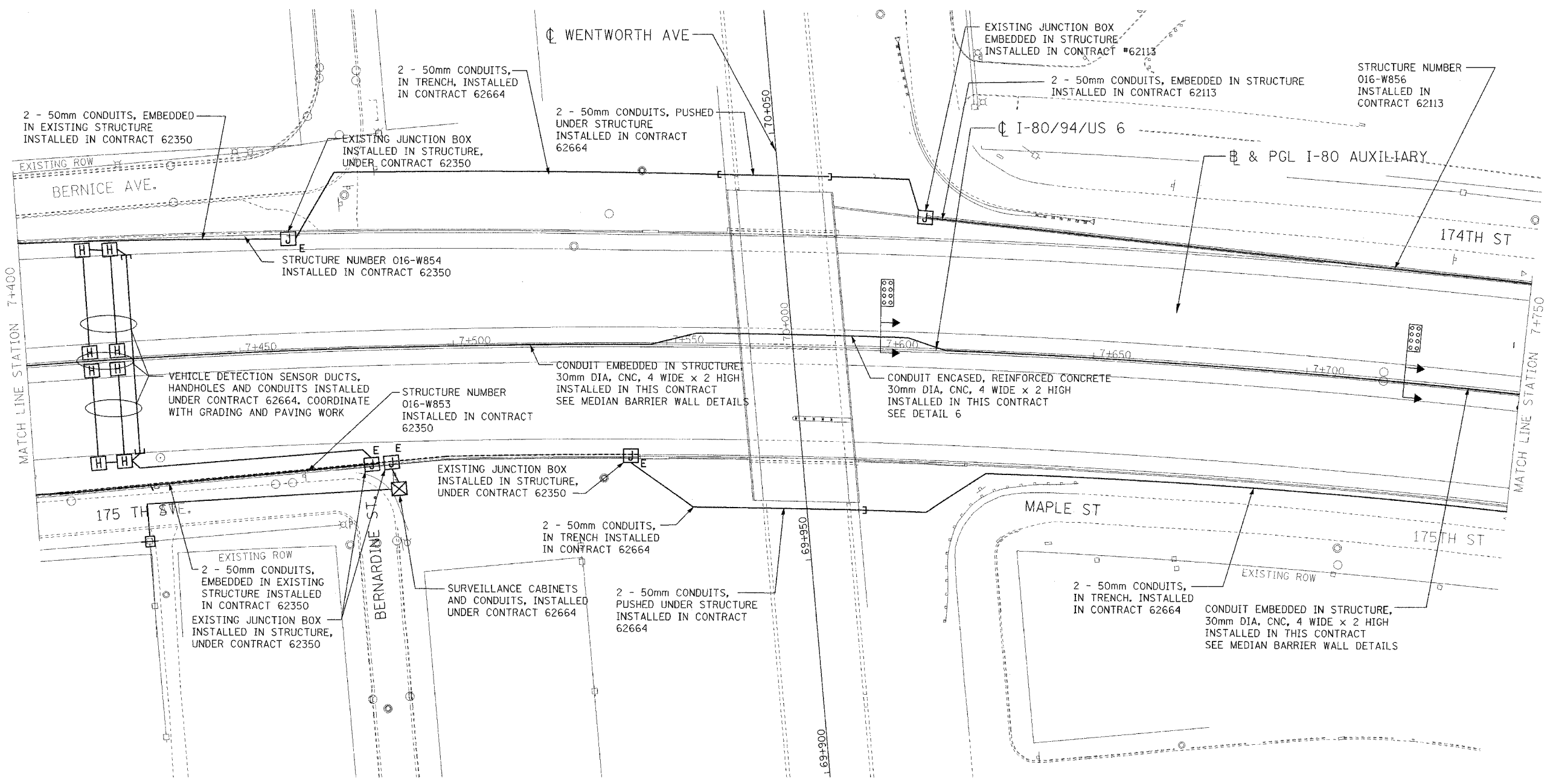
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**ELECTRICAL INSTALLATION PLAN**  
 STA. 7+050 TO STA. 7+400  
 SCALE 1:500  
 DATE 07/05  
 DRAWN BY JRH  
 CHECKED BY DEM

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ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE.

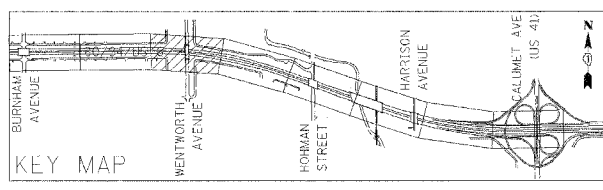
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80/94	2626.2-R-2	COOK	1207	475
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT #62114	INDOT DES. NO. 0100987			



SHEET 3 OF 16

REVISIONS	
NAME	DATE

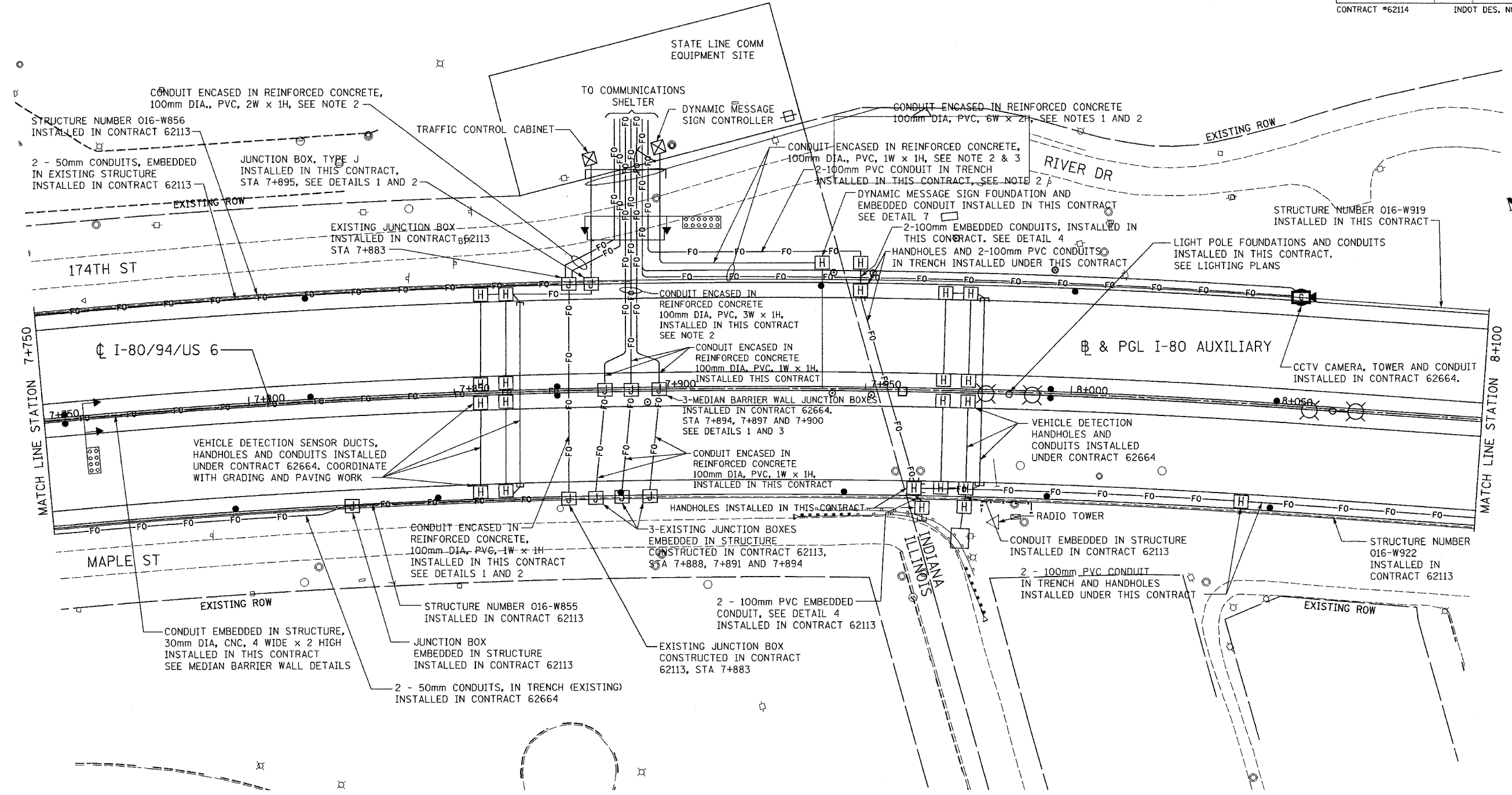
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**ELECTRICAL INSTALLATION PLAN**  
 STA. 7+400 TO STA. 7+750  
 SCALE 1:500  
 DATE 07/05  
 DRAWN BY JRH  
 CHECKED BY DEM



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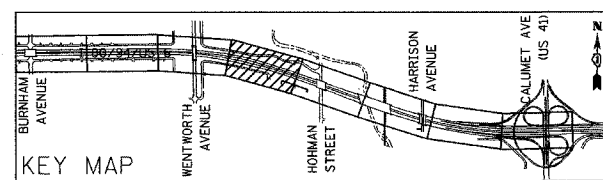
ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE.

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80/94	2626.2-R-2	COOK	1207	476
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT #62114	INDOT DES. NO. 0100987			



**NOTES:**

- COORDINATE CONSTRUCTION OF 6Wx2H DUCT BANK UNDER 174TH STREET WITH ROAD CLOSURE AND PATCHING FURTHER EAST TO MINIMIZE IMPACT TO LOCAL TRAFFIC.
- FIELD VERIFY DEPTH OF TWO STORM SEWERS NORTH OF 174TH STREET. INSTALL 6W x 2H DUCT BANK TO PROVIDE 75mm (3") CLEARANCE OVER SEWERS. COORDINATE DEPTH OF DUCT BANKS THAT CONNECT TO THE 6W x 2H DUCT BANK TO MATCH.
- INSTALLED IN CONTRACT 62664.



REVISIONS	
NAME	DATE

SHEET 4 OF 16

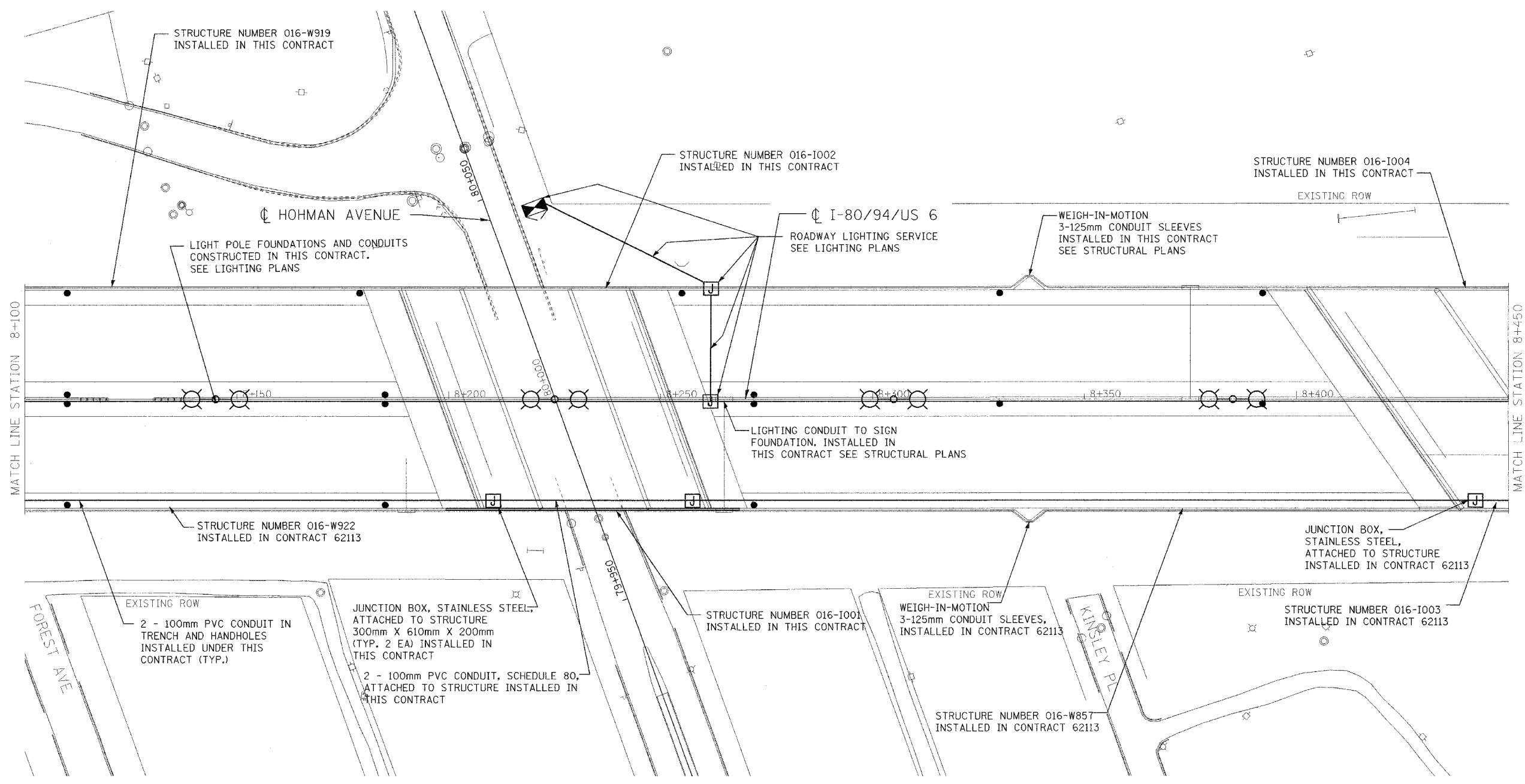
**ILLINOIS DEPARTMENT OF TRANSPORTATION**  
**I-80/94/US 6**  
**KINGERY-BORMAN EXPRESSWAY**  
**BURNHAM ROAD TO US 41**  
**ELECTRICAL INSTALLATION PLAN**

**STA. 7+750 TO STA. 8+100**

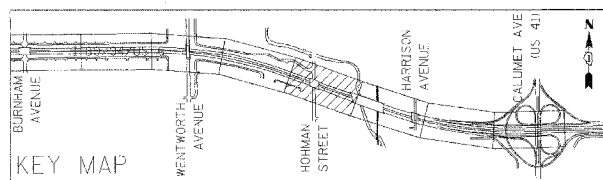
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 DATE 07/05      CHECKED BY DEM

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	1207	477
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT #62114	INDOT DES. NO. 0100987			



SHEET 5 OF 16



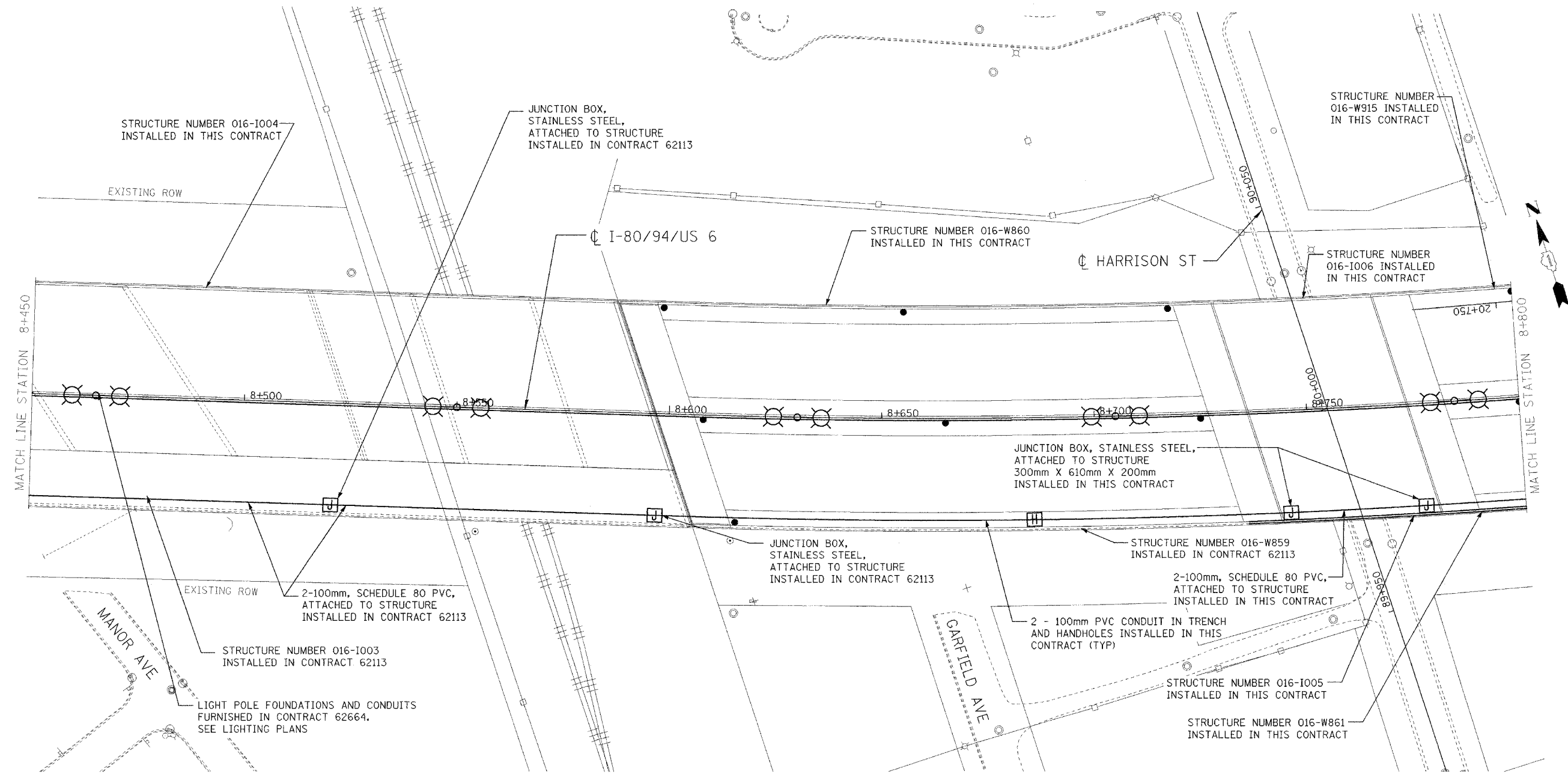
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**ELECTRICAL INSTALLATION PLAN**  
STA. 8+100 TO STA. 8+450  
SCALE 1:500  
DATE 07/05  
DRAWN BY JRH  
CHECKED BY DEM

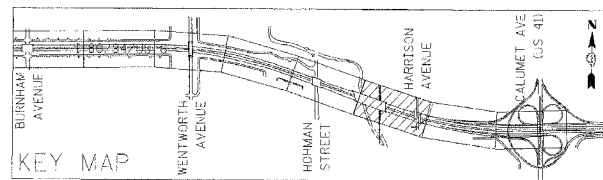
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ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK	1207	478
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT #62114	INDOT DES. NO. 0100987			



SHEET 6 OF 16



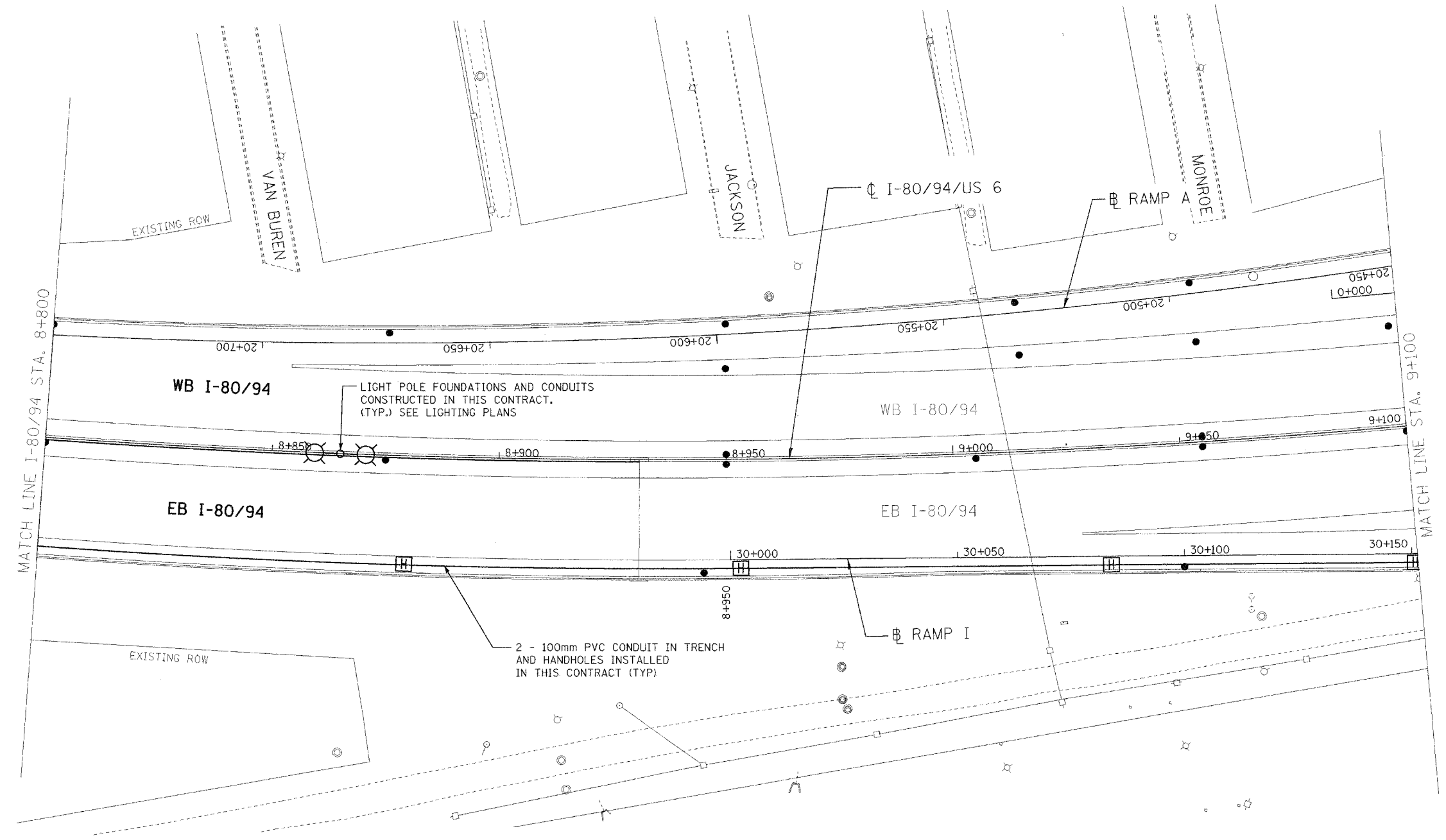
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**ELECTRICAL INSTALLATION PLAN**  
 STA. 8+450 TO STA. 8+800  
 SCALE 1:500  
 DATE 07/05  
 DRAWN BY JRH  
 CHECKED BY DEM

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ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE.

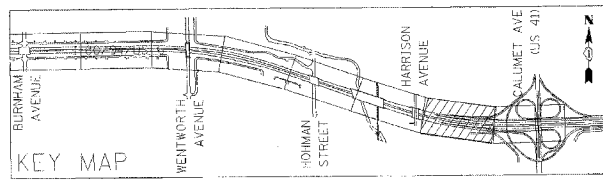
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STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT #62114	INDOT DES. NO. 0100987			



SHEET 7 OF 16

REVISIONS	
NAME	DATE

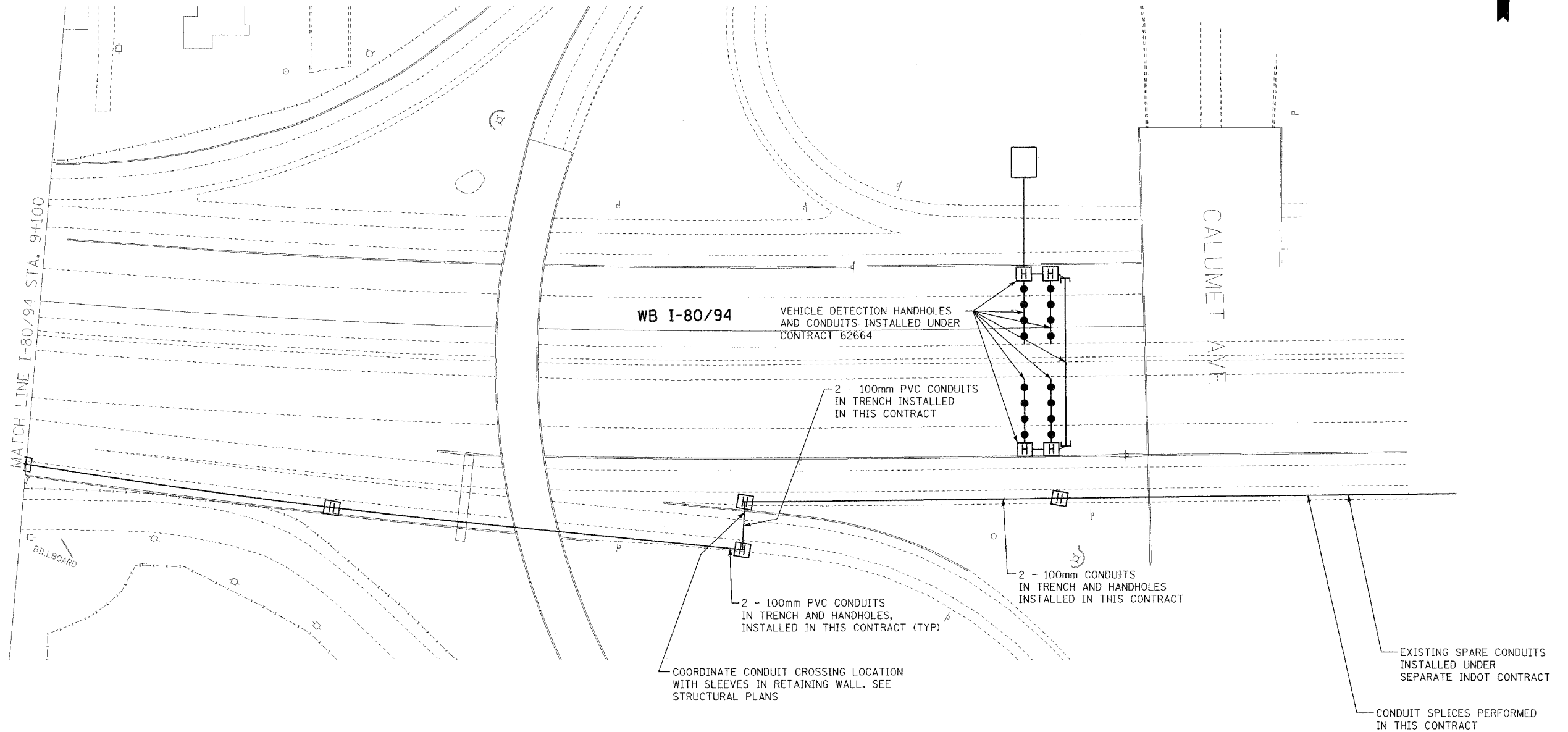
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**ELECTRICAL INSTALLATION PLAN**  
 STA. 8+800 TO STA. 9+150  
 SCALE 1:500  
 DATE 07/05  
 DRAWN BY JRH  
 CHECKED BY DEM



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ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE.

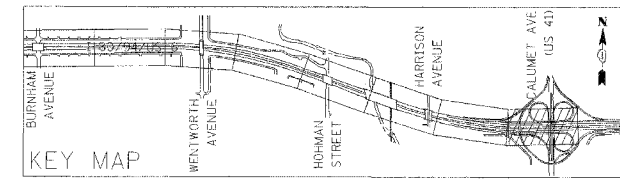
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK	1207	480
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT #62114	INDOT DES. NO. 0100987			



SHEET 8 OF 16

REVISIONS	
NAME	DATE

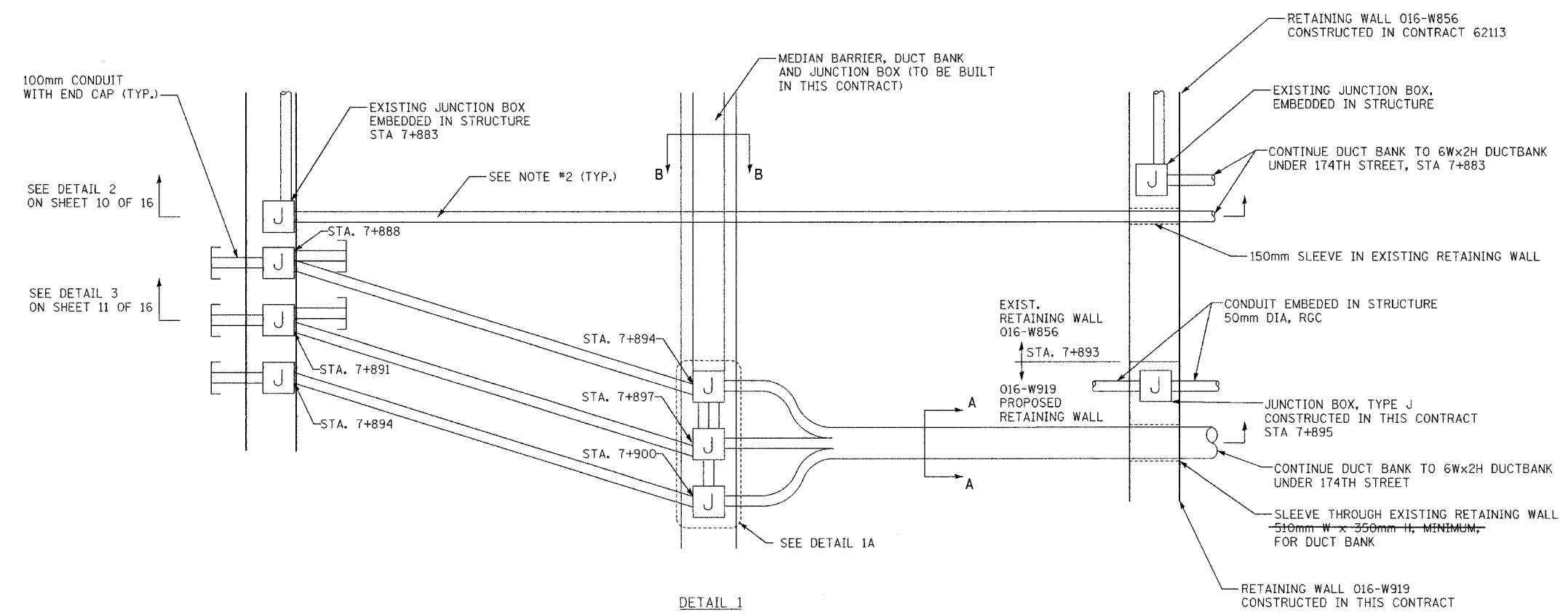
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**ELECTRICAL INSTALLATION PLAN**  
 STA. 9+150 TO EAST PROJECT LIMIT  
 SCALE 1:500 DRAWN BY JRH  
 DATE 07/05 CHECKED BY DEM



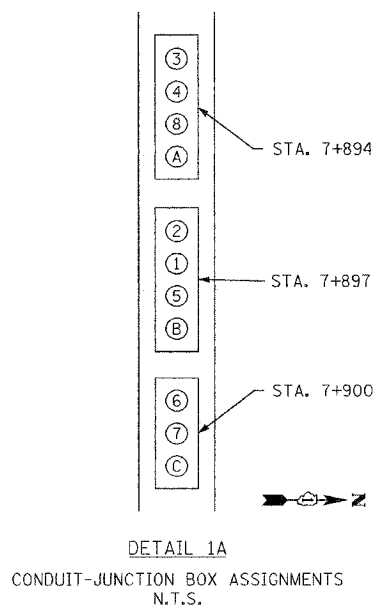
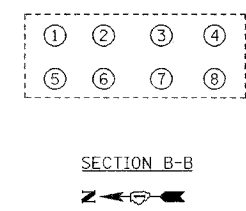
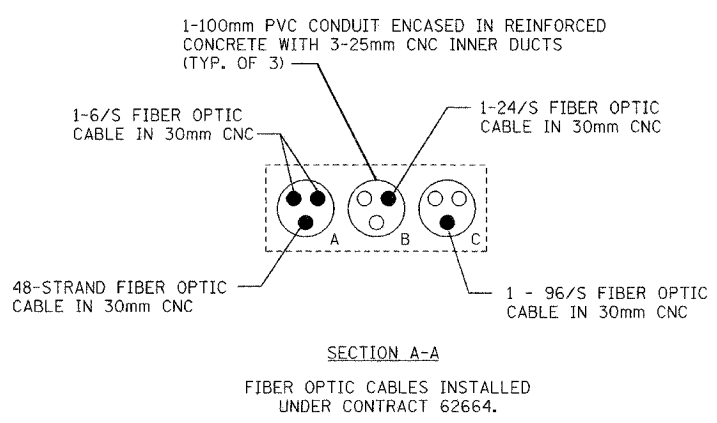
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ALL DIMENSIONS IN METERS EXCEPT PAVEMENT ITEMS AND UNLESS NOTED OTHERWISE.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK	1207	481
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT #62114		INDOT DES. NO. 0100987		



**DETAIL 1**  
PLAN VIEW  
I-80, STATION 7+883 TO 7+900  
N.T.S.



- NOTES:**
1. FOR TYPICAL ELEVATIONS, SEE SHEETS 10 AND 11.
  2. ALL DUCT BANKS UNDER PAVEMENT IN REINFORCED CONCRETE.
  3. MEDIAN BARRIER WALL, DUCT BANK IN MEDIAN BARRIER WALL FOUNDATION, AND CONDUIT STUBS EXTENDING FROM MEDIAN BARRIER WALL CONSTRUCTED IN THIS CONTRACT. CONDUITS IN DUCT BANKS UNDER PAVEMENT CONSTRUCTED IN THIS CONTRACT. CONDUITS IN TRENCH CONSTRUCTED IN CONTRACT 62664. CONDUITS AND JUNCTION BOXES EMBEDDED IN BARRIER WALLS CONSTRUCTED IN CONTRACT 62113.

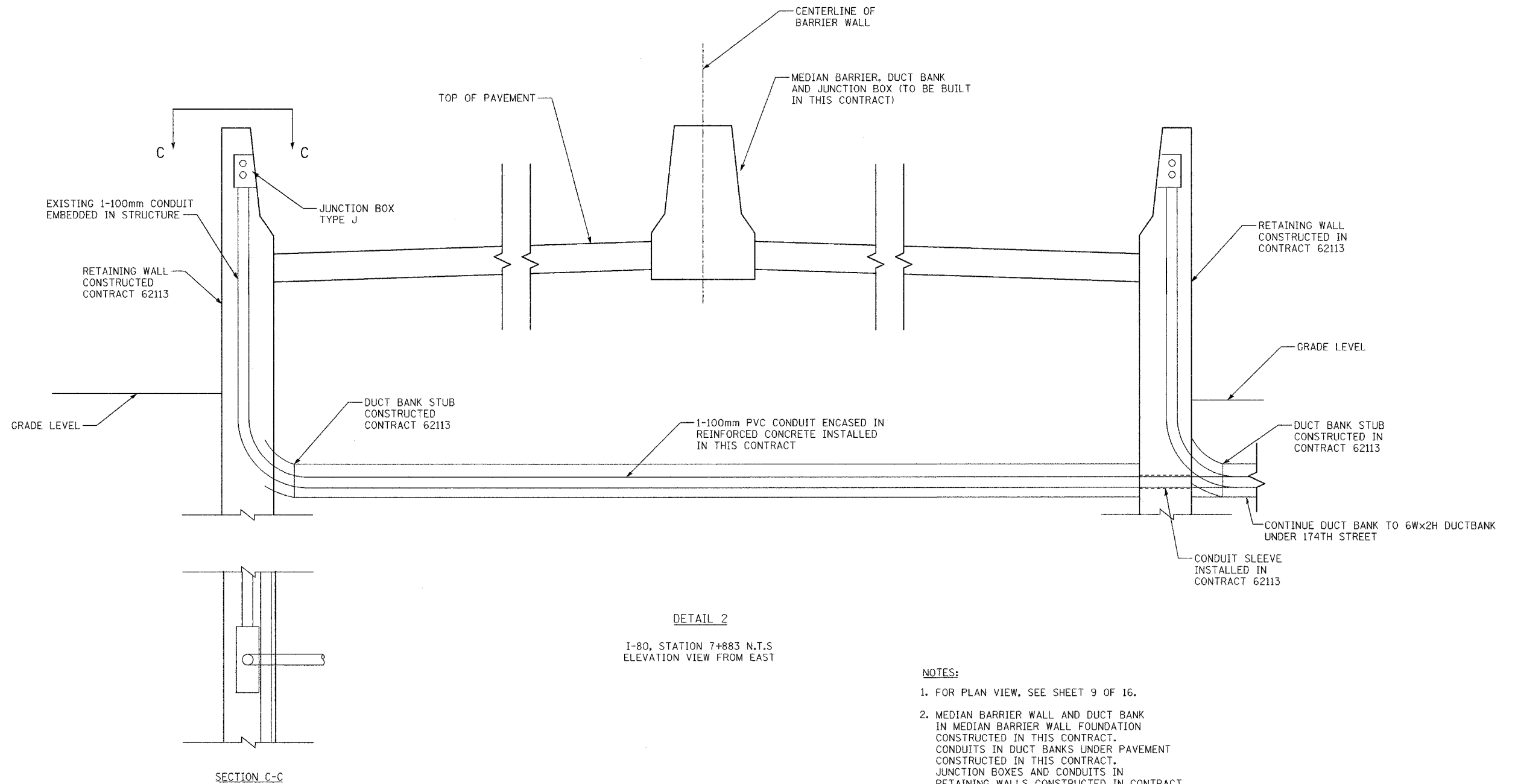
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**STATE LINE CONDUIT ARRANGEMENT**  
**STA. 7+870**  
SCALE N.T.S. DATE 07/05  
DRAWN BY JRH  
CHECKED BY DEM



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	1207	482
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT #62114	INDOT DES. NO. 0100987			



DETAIL 2  
I-80, STATION 7+883 N.T.S.  
ELEVATION VIEW FROM EAST

NOTES:

1. FOR PLAN VIEW, SEE SHEET 9 OF 16.
2. MEDIAN BARRIER WALL AND DUCT BANK IN MEDIAN BARRIER WALL FOUNDATION CONSTRUCTED IN THIS CONTRACT. CONDUITS IN DUCT BANKS UNDER PAVEMENT CONSTRUCTED IN THIS CONTRACT. JUNCTION BOXES AND CONDUITS IN RETAINING WALLS CONSTRUCTED IN CONTRACT 62113.

SHEET 10 OF 16



REVISIONS	
NAME	DATE

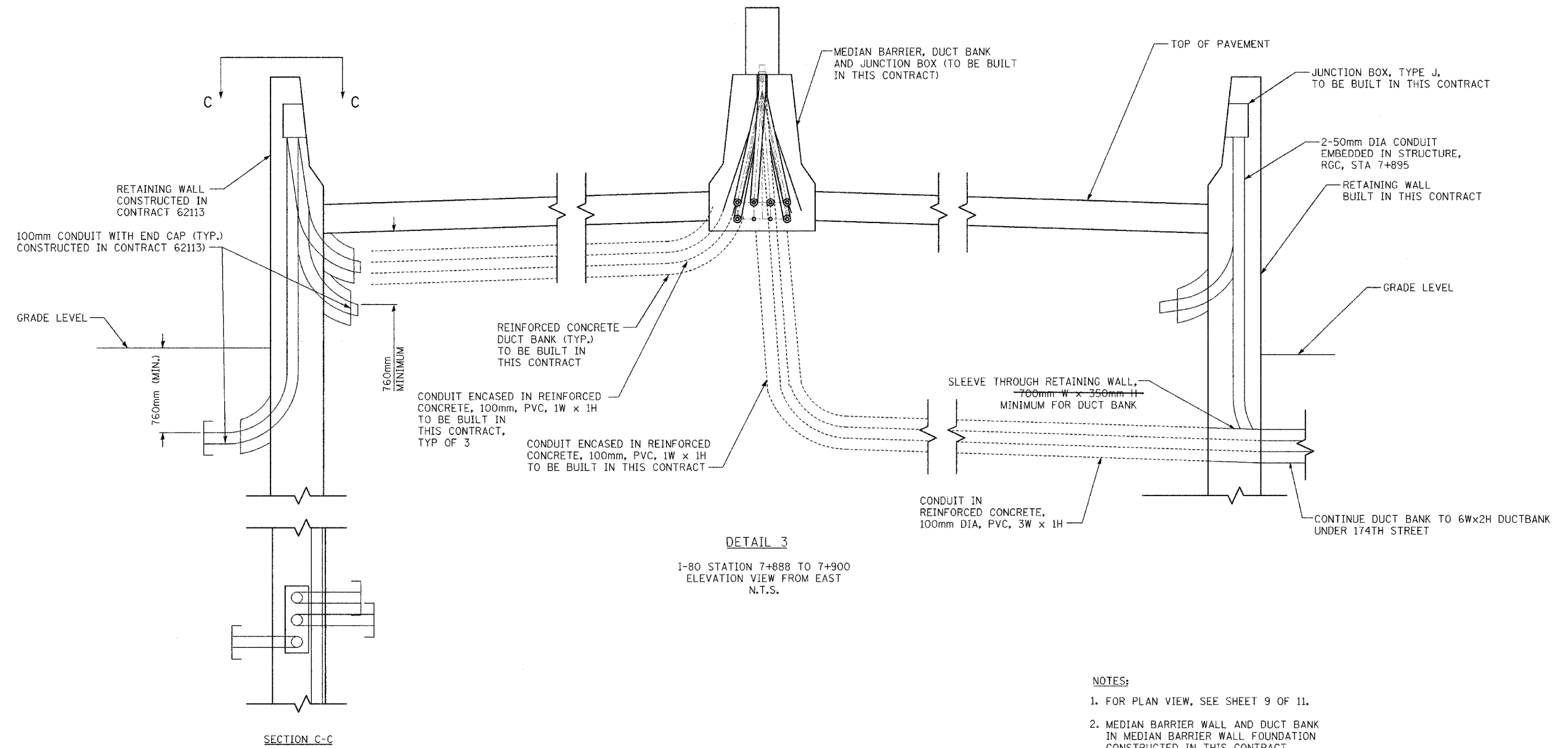
ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
STATE LINE CONDUIT  
ELEVATION VIEW  
STA. 7+850  
SCALE N.T.S. DATE 07/05  
DRAWN BY JRH  
CHECKED BY DEM

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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	1207	483
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT #62114	INDOT DES. NO. 0100987			



**NOTES:**

1. FOR PLAN VIEW, SEE SHEET 9 OF 11.
2. MEDIAN BARRIER WALL AND DUCT BANK IN MEDIAN BARRIER WALL FOUNDATION CONSTRUCTED IN THIS CONTRACT. CONDUITS IN DUCT BANKS UNDER PAVEMENT CONSTRUCTED IN THIS CONTRACT. JUNCTION BOXES AND CONDUITS IN RETAINING WALLS CONSTRUCTED IN THIS CONTRACT.

SHEET 11 OF 16

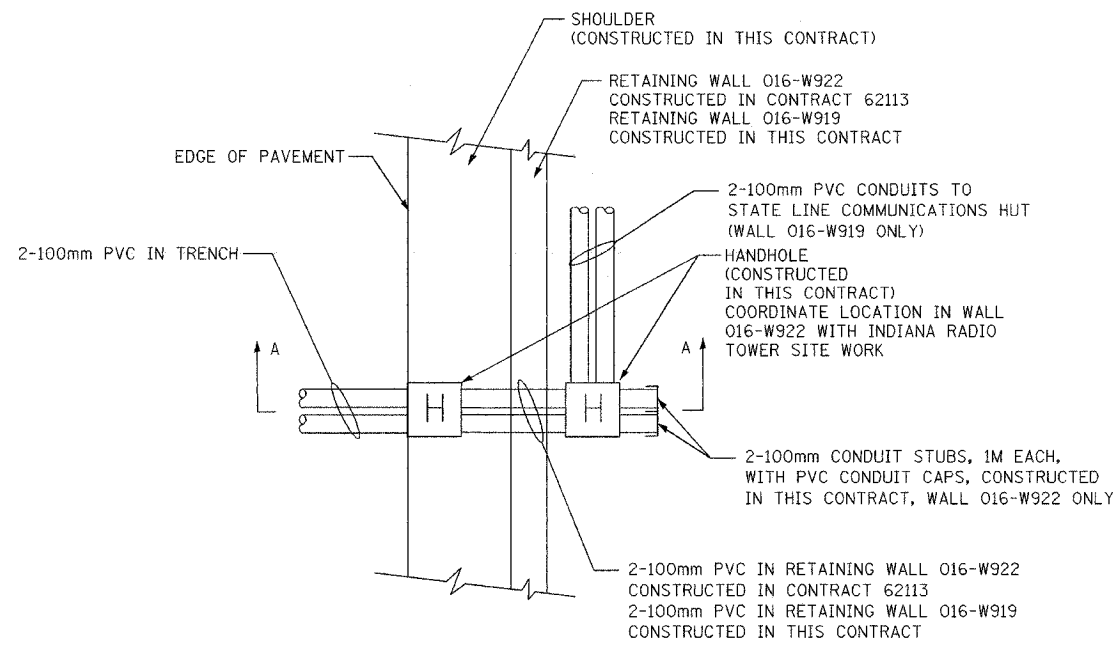
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
**STATE LINE CONDUIT**  
**ELEVATION VIEW**  
**STA. 7+860**  
SCALE N.T.S.  
DATE 07/05  
DRAWN BY JRH  
CHECKED BY DEM

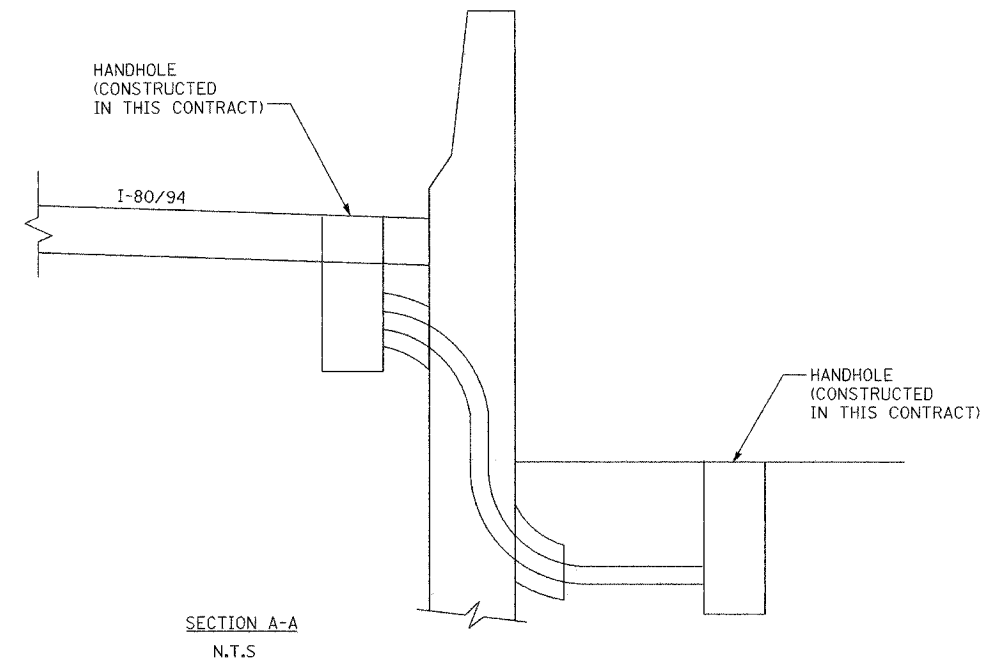


ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-2	COOK	1207	484
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT #62114	INDOT DES. NO. 0100987			



**DETAIL 4**  
 PLAN VIEW, RETAINING WALLS  
 016-W919 & 016W922  
 NEAR I-80, STATION 7+960  
 N.T.S



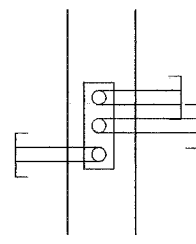
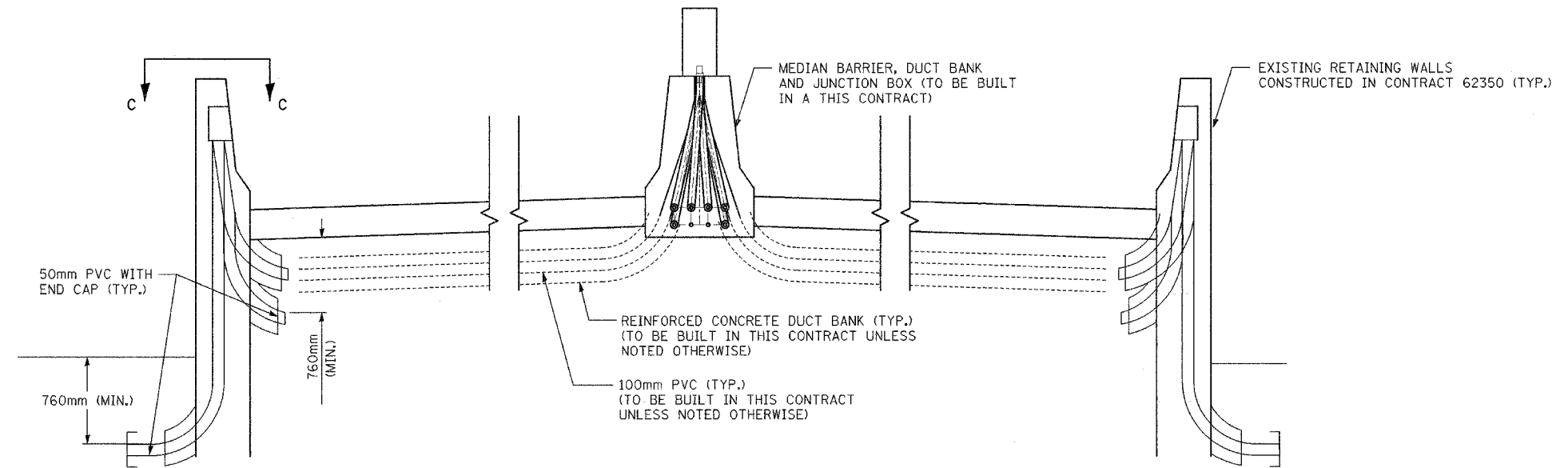
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**MISCELLANEOUS ELECTRICAL  
 INSTALLATION DETAILS**  
**SHEET 1**  
 SCALE N.T.S  
 DATE 07/05  
 DRAWN BY JRH  
 CHECKED BY DEM

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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	1207	485
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT #62114	INDOT DES. NO. 0100987			



SECTION C-C

DETAIL 5

SHEET 13 OF 16

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**BARRIER WALL CONDUIT  
 INSTALLATION DETAILS**

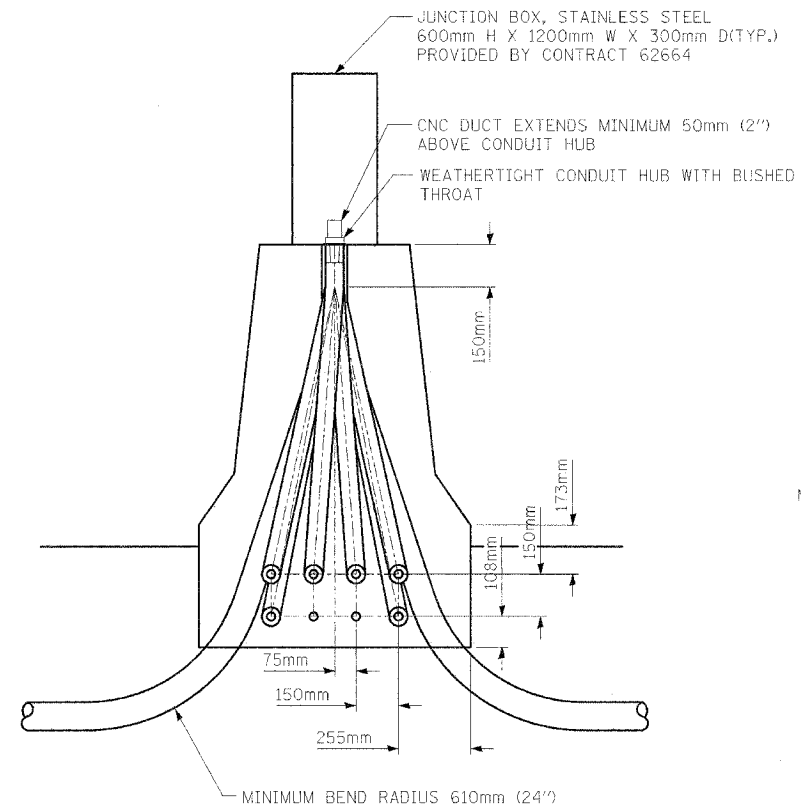
SCALE N.T.S. DRAWN BY JRH  
 DATE 07/05 CHECKED BY DEM



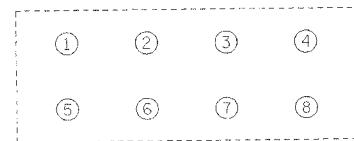
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ALL DIMENSIONS IN METERS EXCEPT PAY ITEMS AND UNLESS NOTED OTHERWISE.

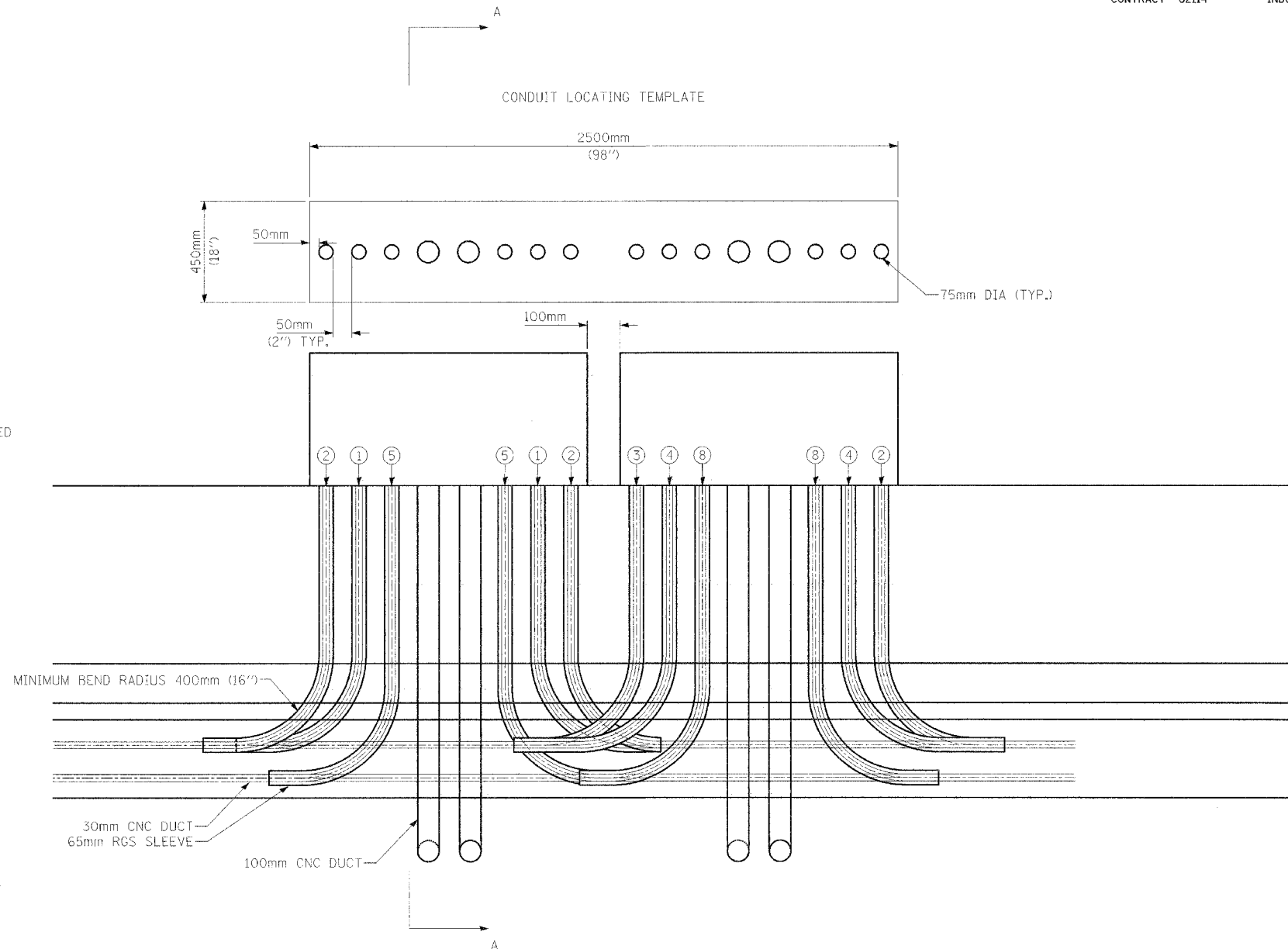
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80/94	2626.2-R-2	COOK	1207	486
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT #62114	INDOT DES. NO. 0100987			



SECTION A-A



← NORTH OR EAST  
DUCT IDENTIFICATION



ELEVATION VIEW  
LOOKING NORTH OR EAST

DETAIL 5A

NOTE:  
ALL WORK SHOWN PERFORMED IN THIS CONTRACT UNLESS NOTED OTHERWISE.



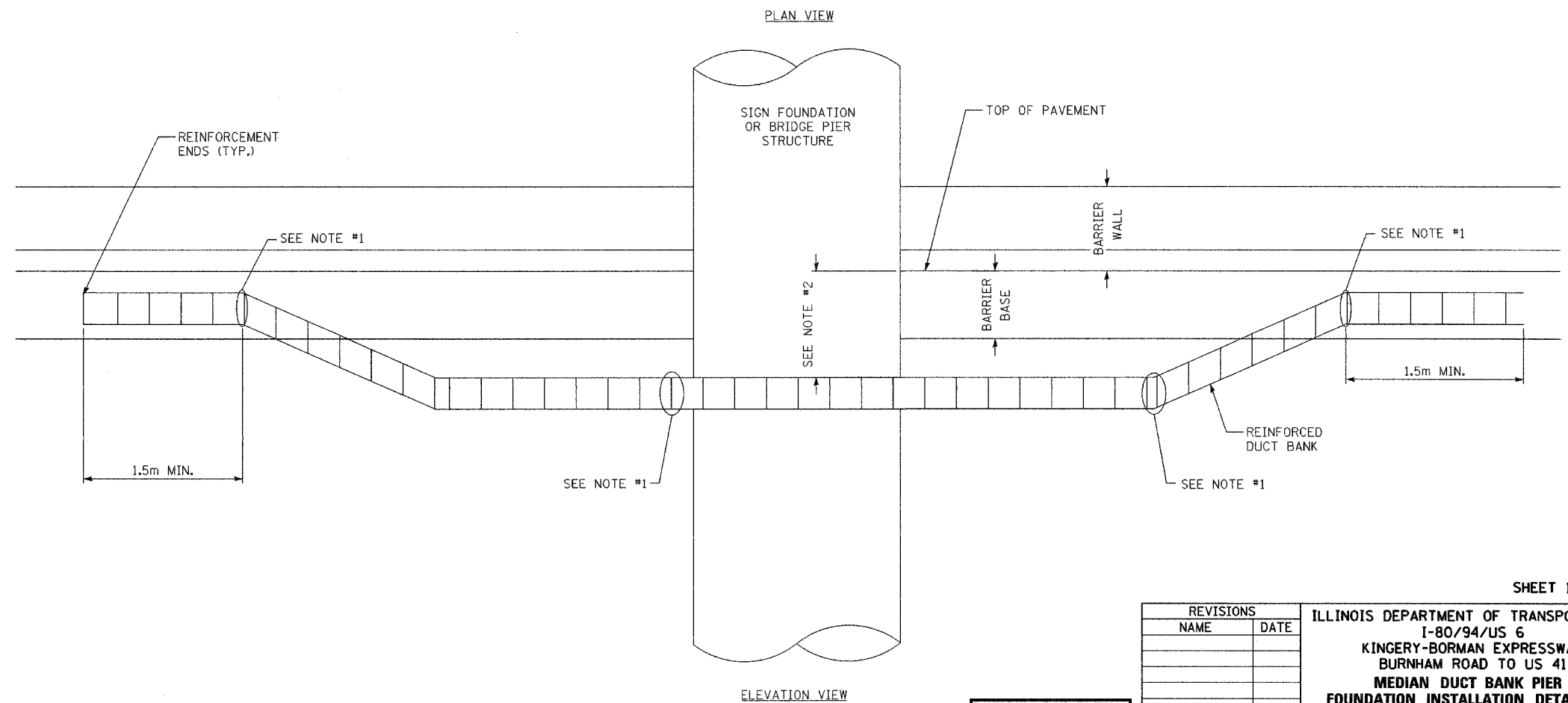
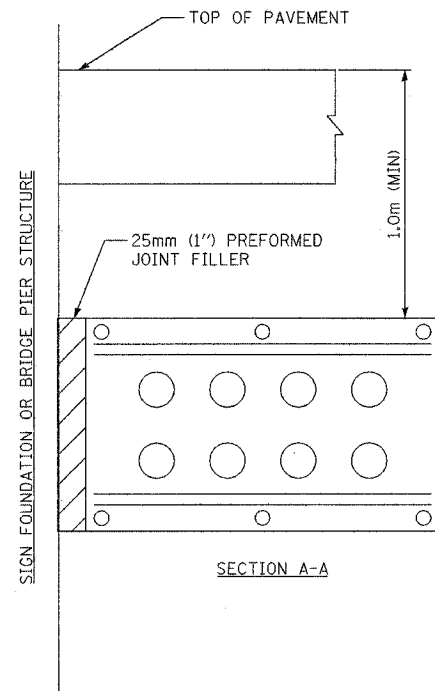
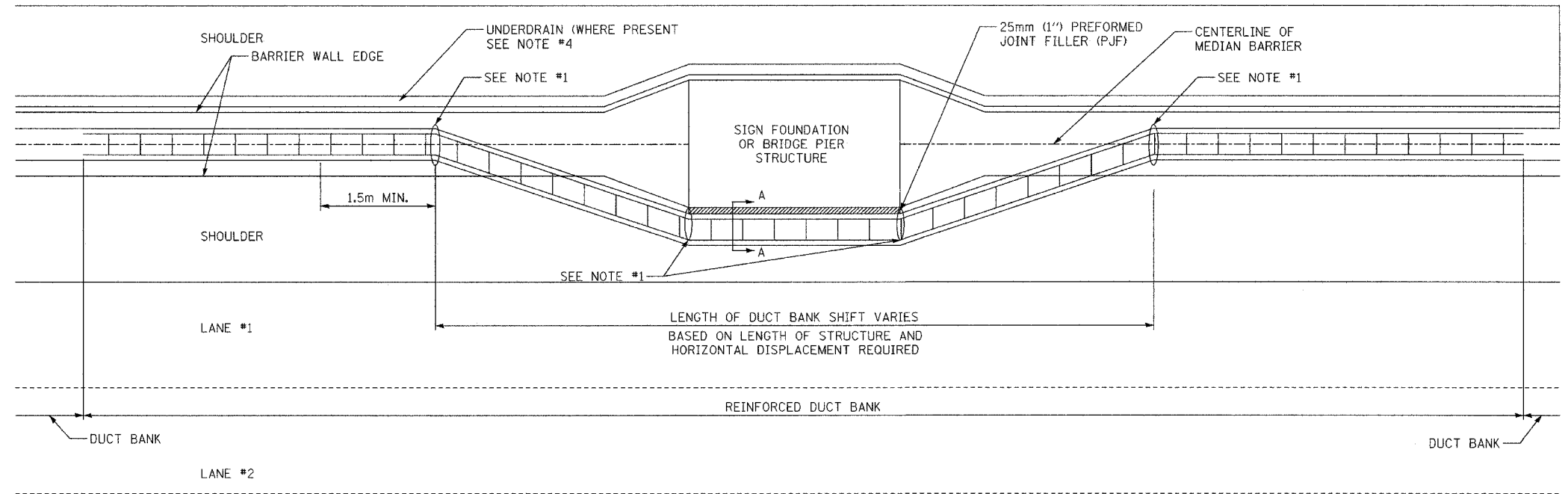
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41  
BARRIER WALL CONDUIT  
INSTALLATION AT JUNCTION BOXES

SCALE NO SCALE  
DATE 07/05  
DRAWN BY JRH  
CHECKED BY DEM

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	1207	487
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT #62114	INDOT DES. NO. 0100987			



**NOTES:**

1. BEND IN DUCT SHALL BE NO GREATER THAN 11.25 DEGREES.
2. DUCT UNDER STRUCTURE MUST BE NO LESS THAN 1.0m BELOW GRADE.
3. DETAIL IS TYPICAL. REFER TO PLAN DRAWINGS FOR APPLICABLE LOCATIONS AND STRUCTURE DIMENSIONS.
4. COORDINATE DUCT BANK LOCATION WITH DRAINAGE STRUCTURES.

ELEVATION VIEW

DETAIL 6



REVISIONS	
NAME	DATE

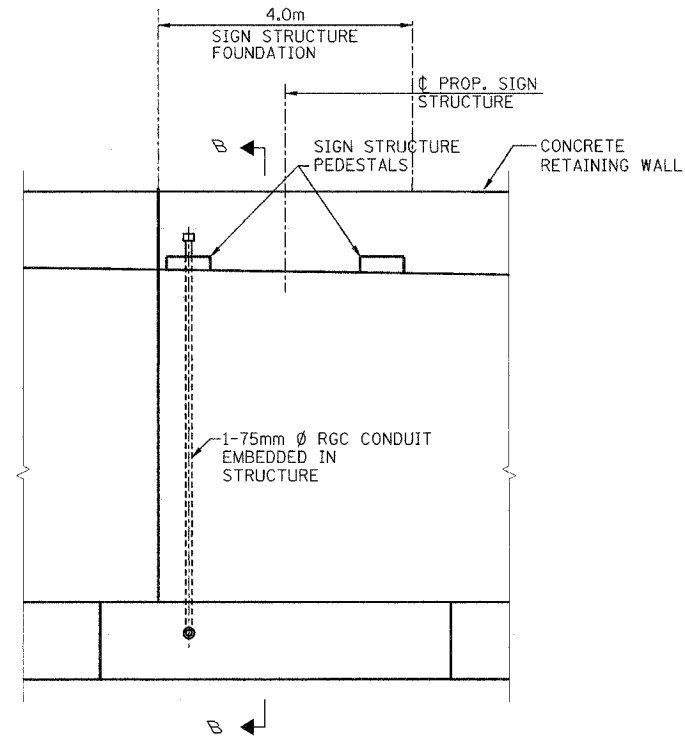
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
**MEDIAN DUCT BANK PIER AND FOUNDATION INSTALLATION DETAILS**

SCALE N.T.S. DATE 07/05  
 DRAWN BY JRH CHECKED BY DEM

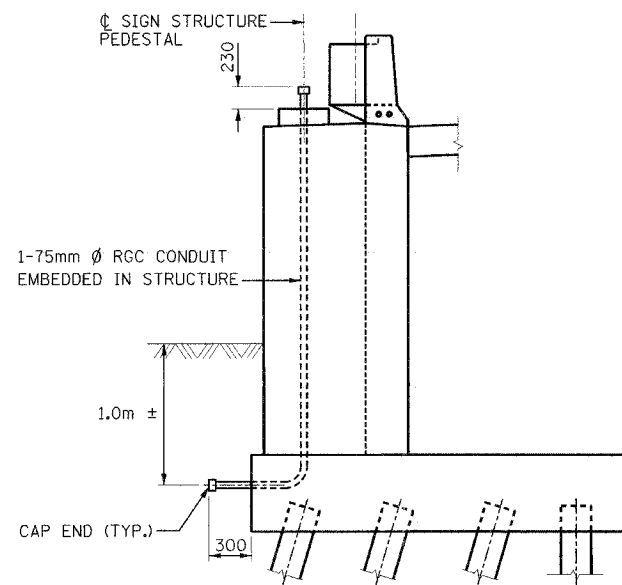
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STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT #62114	INDOT DES. NO. 0100987			



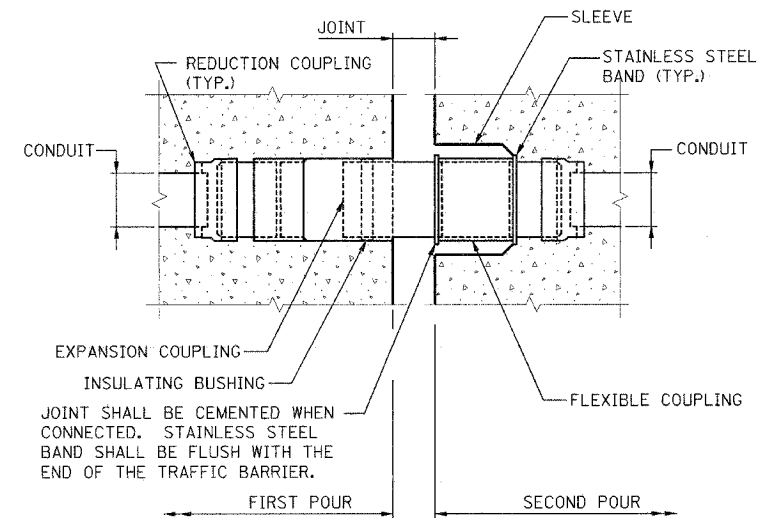
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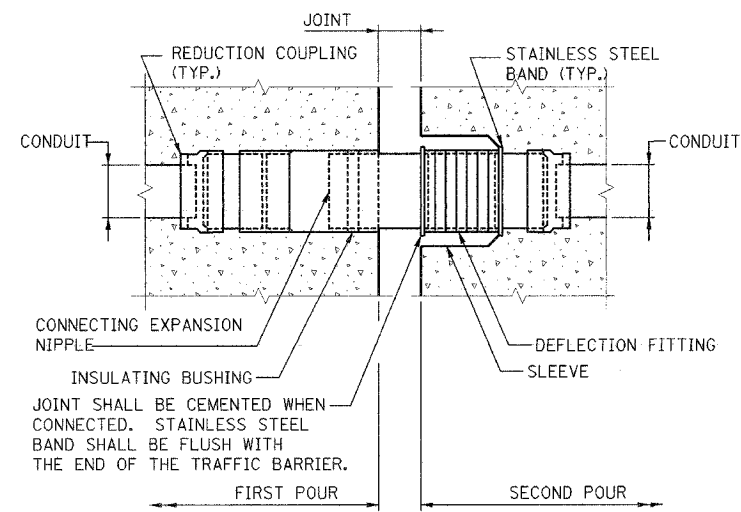
SECTION B-B

DETAIL 7

STRUCTURE SHOWN TO ILLUSTRATE CONDUIT LOCATION ONLY. REFER TO STRUCTURAL PLANS FOR DESIGN OF SPECIFIC STRUCTURES.



CONDUIT EXPANSION JOINT



CONDUIT EXPANSION/DEFLECTION JOINT

NOTES FOR CONDUIT EXP. & EXP./DEFL. JOINTS:

1. ALL MATERIALS (FITTING, COUPLINGS, CONDUIT, ETC.) INCLUDED WITH CONDUIT EMBEDDED IN STRUCTURE.
2. ALL COUPLINGS SHALL BE WATERTIGHT.
3. EXPANSION ASSEMBLY SHALL BE INSTALLED IN ALL EXPANSION JOINTS THAT ARE AT LEAST 45MM AT 10°C, UNLESS OTHERWISE SHOWN OR AS DIRECTED BY THE ENGINEER. EXPANSION COUPLINGS SHALL HAVE A TOTAL MINIMUM MOVEMENT OF 150MM OR THE MOVEMENT CAPACITY OF THE STRUCTURAL JOINT, WHICHEVER IS GREATER.
4. EXPANSION/DEFLECTION ASSEMBLY SHALL BE INSTALLED AT EXPANSION JOINT LOCATIONS WHERE MOVEMENT PERPENDICULAR TO THE LONGITUDINAL AXIS OF THE CONDUIT OR CONDUITS IS POSSIBLE, OR AS DIRECTED BY THE ENGINEER. EXPANSION/DEFLECTION COUPLINGS SHALL HAVE A TOTAL LONGITUDINAL MOVEMENT OF 100MM OR THE MOVEMENT CAPACITY OF THE STRUCTURAL JOINT, WHICHEVER IS GREATER. THE ROTATIONAL CAPACITY OF THE DEFLECTION FITTING SHALL ALLOW FOR A MINIMUM MOVEMENT OF 18MM IN THE TRANSVERSE DIRECTION.
5. EXPANSION AND EXPANSION/DEFLECTION COUPLING TYPES SHALL BE APPROVED BY THE ENGINEER.

REVISIONS	
NAME	DATE

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

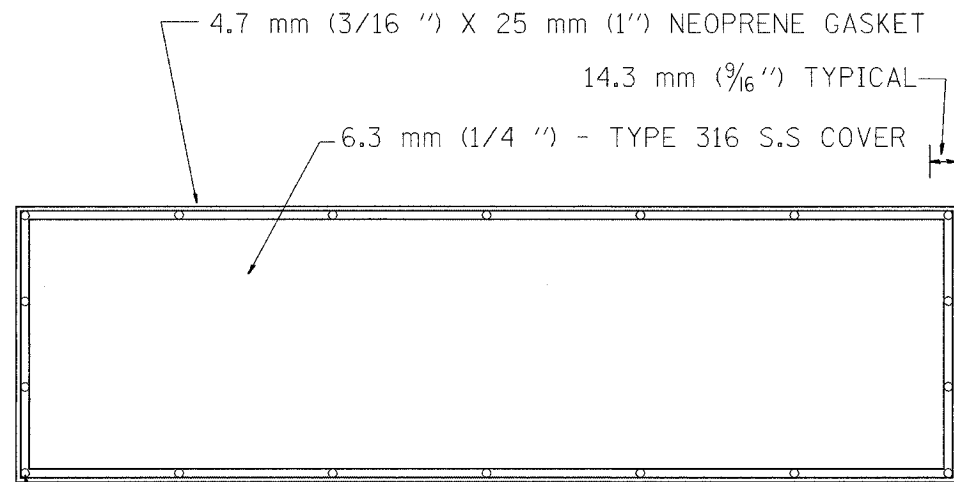
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DATE 07/05

DRAWN BY JRH  
CHECKED BY DEM



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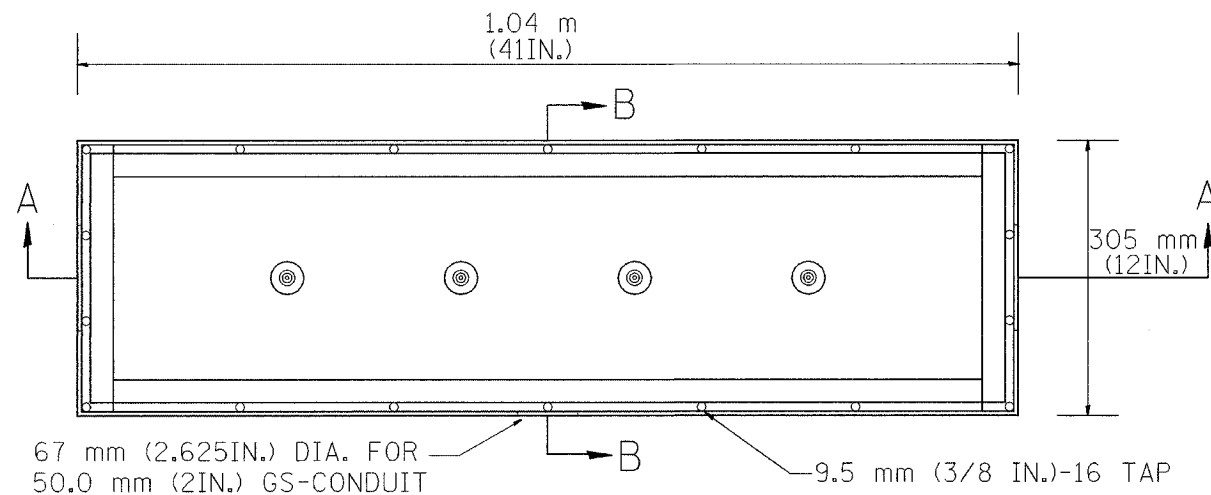
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT #62114 INDOT DES. NO. 0100987				



DRILL AND COUNTERSINK TOP OF COVER FOR  
9.5 mm (3/8 inch) 16 X 19 mm (3/4 inch)  
FLAT HEAD STAINLESS STEEL SLOTTED SCREWS

BACK VIEW

STAINLESS STEEL COVER WITH NEOPRENE GASKET

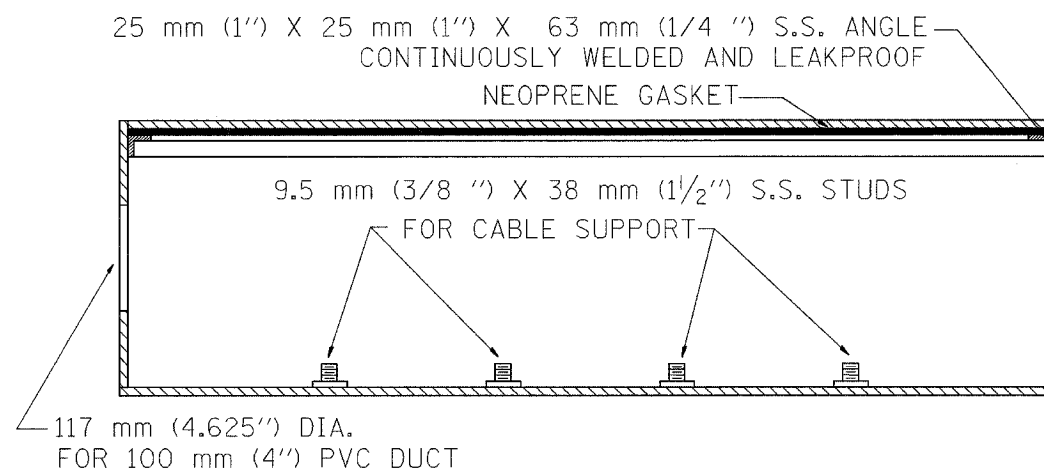


TOP VIEW

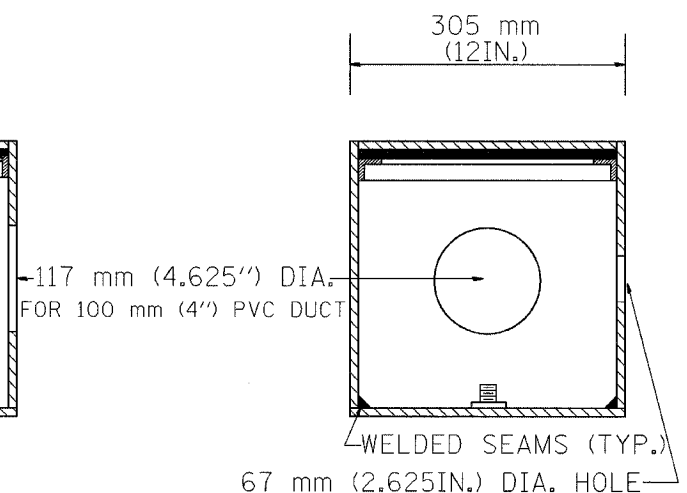
STAINLESS STEEL JUNCTION BOX TYPE "J"



SIDE VIEW  
STAINLESS STEEL COVER



SIDE VIEW SECTION A-A



SIDE VIEW SECTION B-B

**NOTE:**  
JUNCTION BOX TO BE CONSTRUCTED OF  
6.3 mm (1/4 IN.) TYPE 316 STAINLESS STEEL  
ALL WELDS SHALL BE CONTINUOUS AND LEAKPROOF  
ALL COVERS SHALL BE UNIVERSAL IN FIT.

BARRIER WALL SHALL BE GAPPED A MINIMUM OF 4.57 m (15ft+) FOR PROPER PLACEMENT OF JUNCTION BOX TYPE "J" AND FOR A SMOOTH TRANSITION OF 100 mm (4IN.) PVC SURVEILLANCE DUCT(S) FROM BARRIER WALL FOOTER INTO JUNCTION BOX.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER CONCRETE BARRIER WALL JUNCTION BOX TYPE "J"
NAME	DATE	
R.L.	6/94	SCALE: NONE DATE 6-22-94
T.C.	10/96	

SHEET 16A OF 16

RD-TYPMET.DGN  
RF=

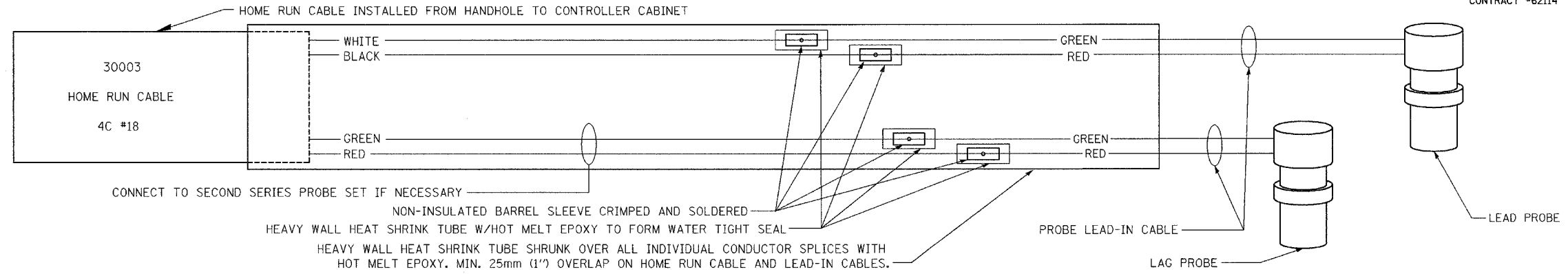
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1 MODIFIED TRAFFIC SYSTEMS CENTER (TY-1TSC-663#1)

V:\ROAD\BARRIERS\BARRIERS.DGN 09/14/2006 09:44:03 AM

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	1207	488B
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT #62114	INDOT DES. NO. 0100987			



TYPICAL SINGLE MAGNETO-INDUCTIVE VEHICLE SENSOR SERIES SPLICING DETAIL

NOTES:

PROBE SHALL BE POSITIONED IN THE CENTER OF EACH LANE. EXACT POSITIONING AND CONFIGURATION TO BE DETERMINED BY MANUFACTURER'S FIELD REPRESENTATIVE.

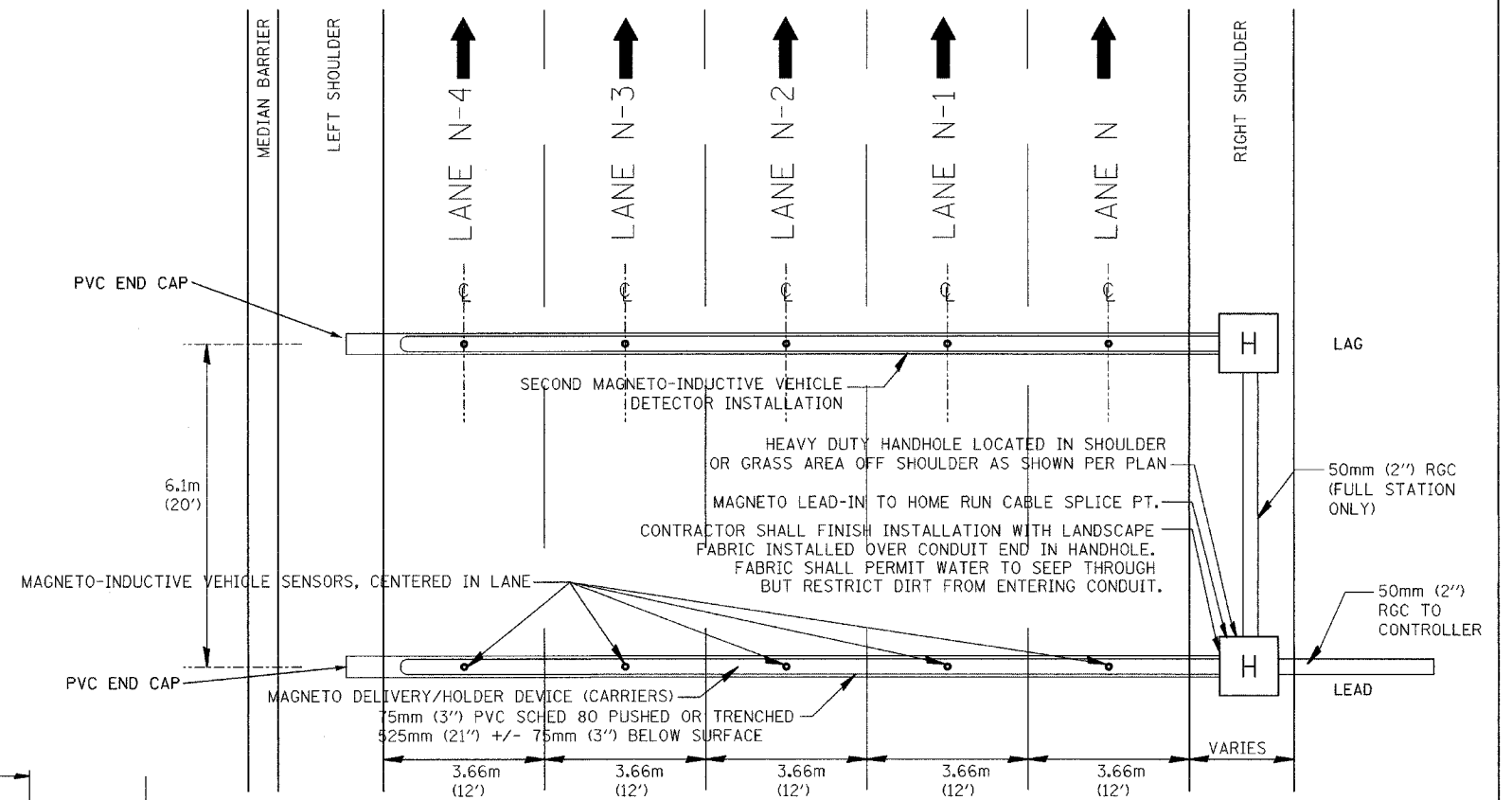
SUFFICIENT NUMBER OF CARRIERS TO BE INSTALLED TO COVER THE DISTANCE FROM THE HANDHOLE TO THE FARTHEST PROBE. FIRST CARRIER INSERTED SHALL BE END CAP CARRIER.

ANY DEVIATION IN CONDUIT ALIGNMENT SHALL BE LESS THAN 20mm PER METER.

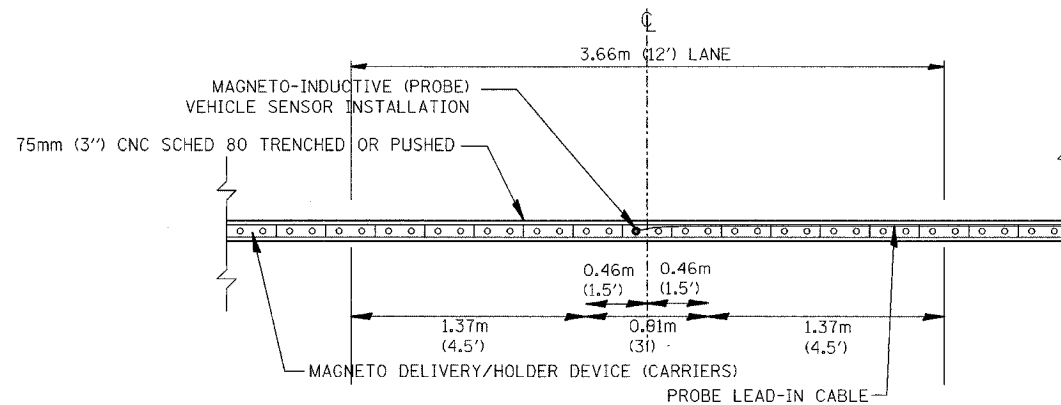
CONDUIT END CAP TO BE PRESS FITTED (NO ADHESIVE), 5mm (3/16"). DRAINAGE HOLE TO BE DRILLED IN END CAP. HOLE TO BE POSITIONED AT BOTTOM.

CONDUIT TO EXTEND APPROXIMATELY 75mm (3") INTO HANDHOLE.

LEAD PROBES SHALL USE ODD CHANNELS AND HAVE B/W WIRES; LAG PROBES SHALL USE EVEN CHANNELS AND HAVE R/G WIRES. CHANNELS SHALL BE USED IN INCREASING ORDER BEGINNING WITH LANE 1 OF NEAR LANES AND ENDING WITH OUTER-MOST LANE OF FAR LANES.



KINGERY-BORMAN TYPICAL MULTILANE LANE CROSS SECTION WITH NON-INVASIVE MAGNETO-INDUCTIVE VEHICLE SENSORS FULL STATION



KINGERY-BORMAN TYPICAL MAINLINE/MULTI LANE EXIT/MULTI LANE ENTR. 3.66m (12') WITH SINGLE MAGNETO-INDUCTIVE VEHICLE SENSOR (PROBE) INSTALLATION PER LANE

ELECTRICAL CONTRACT - FOR INFORMATION ONLY



REVISIONS	
NAME	DATE

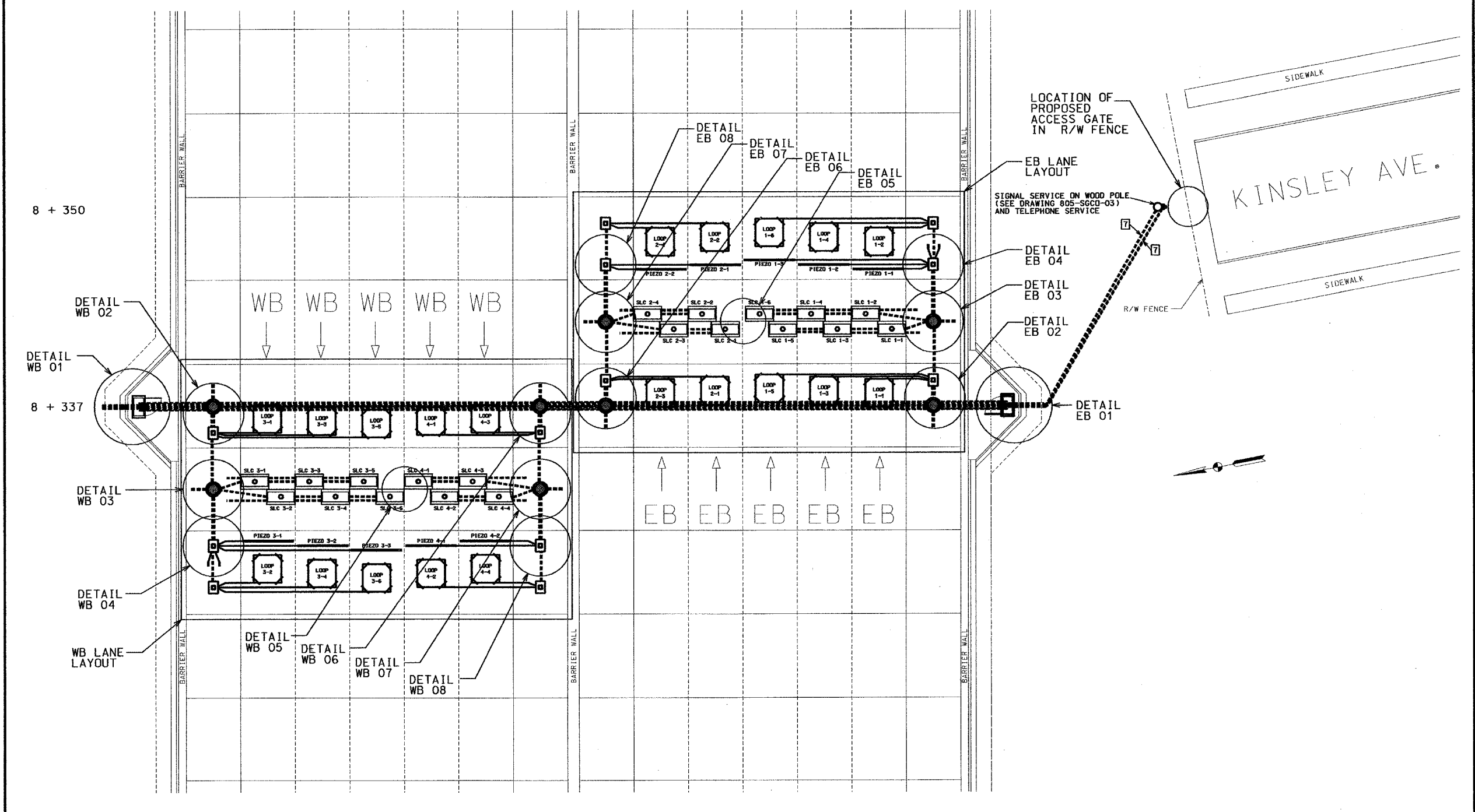
SHEET 16B OF 16  
 ILLINOIS DEPARTMENT OF TRANSPORTATION  
 I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41  
 TYPICAL SINGLE MAGNETO-INDUCTIVE VEHICLE SENSOR (FULL INSTALLATION/SPEED TRAP)  
 SCALE N.T.S. DRAWN BY JRH/MAP  
 DATE 03-10-04 CHECKED BY DEM/CMW



# WEIGH IN MOTION (WIM) STATION OVERVIEW

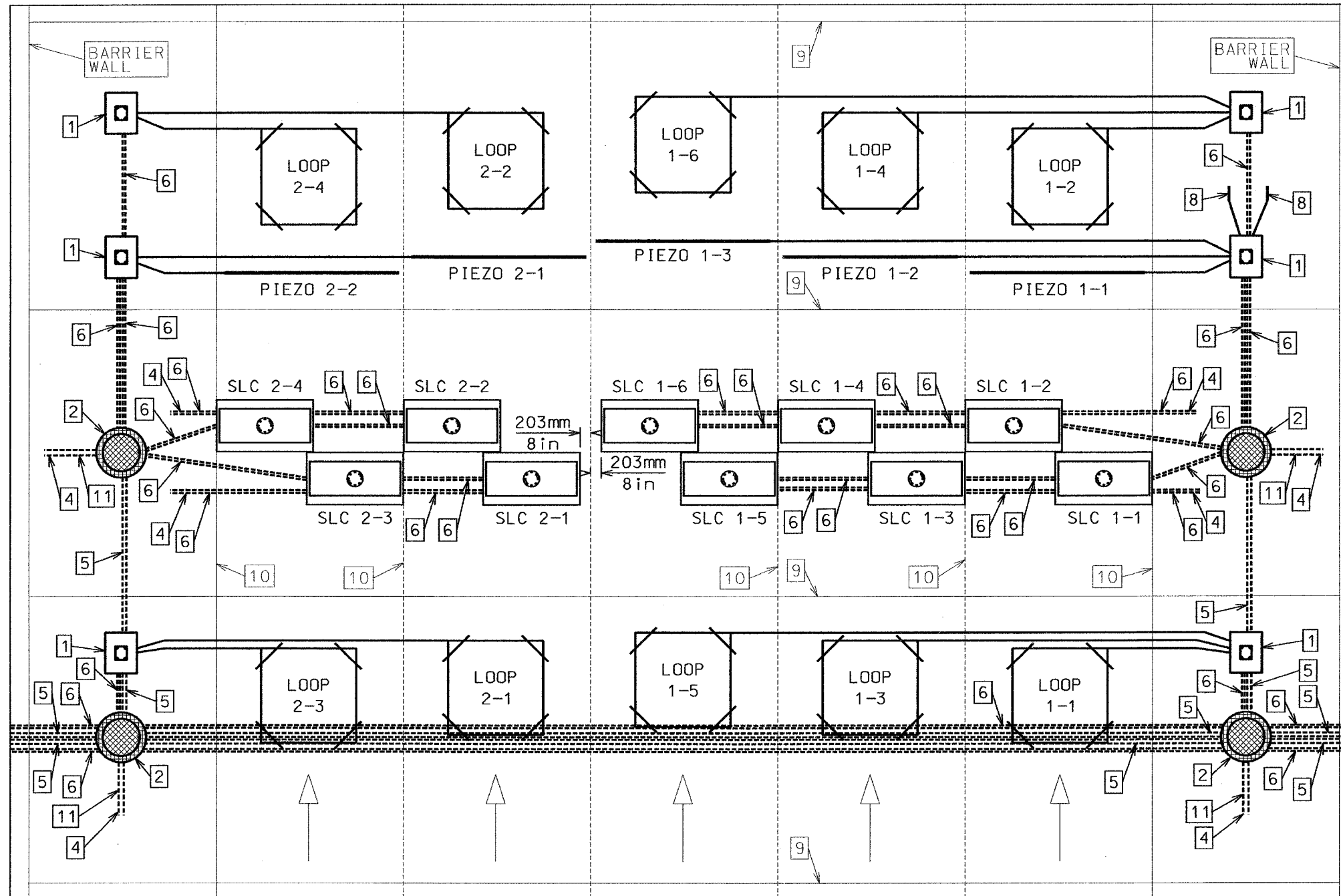
## STA. 8 + 337

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-1	COOK	1207	489
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114				



<p><b>LEGEND</b></p> <p>1 DETECTOR HOUSING (SEE DETAIL)</p> <p>2 WEIGH-IN-MOTION HANDHOLE WITH FRAME, FLANGE &amp; LID ASSEMBLY</p> <p>3 TYPE "R" SIGNAL CONTROLLER CABINET AND FOUNDATION</p> <p>4 CONNECT TO NEAREST CATCH BASIN</p> <p>5 76 MM PVC CONDUIT OR 76 MM HIGH DENSITY POLYETHYLENE EHMW PIPE</p> <p>6 50 MM PVC CONDUIT OR 50 MM HIGH DENSITY POLYETHYLENE EHMW PIPE</p> <p>7 50 MM GALVANIZED STEEL CONDUIT</p> <p>8 TEMPERATURE SENSOR</p> <p>9 D1 CONTRACTION PAVEMENT JOINT</p> <p>10 LONGITUDINAL PAVEMENT JOINT</p> <p>11 100 MM PVC CONDUIT OR 100 MM HIGH DENSITY POLYETHYLENE EHMW PIPE</p>	<p><b>REVISIONS</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	DATE	DESCRIPTION										<p>RECOMMENDED FOR APPROVAL <i>Scott A. MacArthur</i> 6-9-05 DESIGN ENGINEER DATE</p> <p>DESIGNED: DRK      DRAWN: DRK</p> <p>CHECKED: DRK      CHECKED: DRK</p>	<p><b>INDIANA DEPARTMENT OF TRANSPORTATION</b></p> <p><b>WEIGH-IN-MOTION STATION OVERVIEW</b></p> <p><b>STA. 8 + 337</b></p>	<p>I-80/94/US 6 KINGERY-BORMAN EXPRESSWAY BURNHAM ROAD TO US 41</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">HORIZONTAL SCALE</td> <td rowspan="3" style="text-align: center; vertical-align: middle;"><b>WIM STATION DETAILS</b></td> </tr> <tr> <td>Not To Scale</td> </tr> <tr> <td>VERTICAL SCALE</td> </tr> <tr> <td>Not To Scale</td> <td> </td> </tr> </table>	HORIZONTAL SCALE	<b>WIM STATION DETAILS</b>	Not To Scale	VERTICAL SCALE	Not To Scale	
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626-2-R-1	COOK	1207	490
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114				

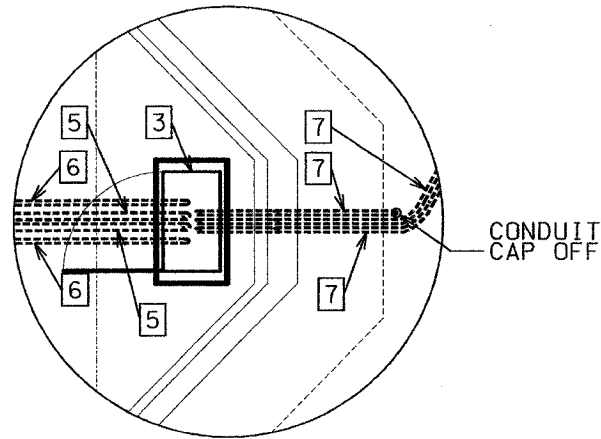


NOTES:  
 1. FOR ADDITIONAL PLACEMENT AND SENSOR SIZE DETAILS, SEE THE EB PLACEMENT DETAILS AND EB DETAILS SHEETS OF THE PLANS.

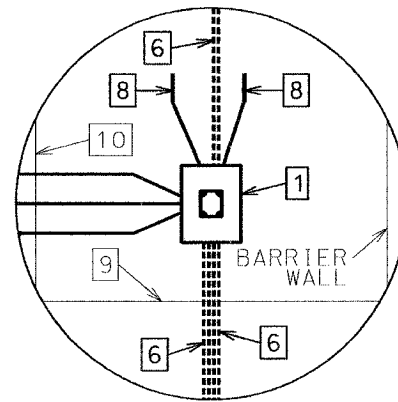
## EB LANE LAYOUT

<p><b>LEGEND</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <p>1 DETECTOR HOUSING (SEE DETAIL)</p> <p>2 SIGNAL HANDHOLE WITH NEENAH R-1672 SOLID LID &amp; RING ASSY</p> <p>3 TYPE "M" SIGNAL CONTROLLER CABINET AND FOUNDATION</p> <p>4 CONNECT TO NEAREST CATCH BASIN</p> <p>5 76 MM PVC CONDUIT OR 76 MM HIGH DENSITY POLYETHYLENE EHMW PIPE</p> </td> <td style="width: 50%; border: none;"> <p>6 50 MM PVC CONDUIT OR 50 MM HIGH DENSITY POLYETHYLENE EHMW PIPE</p> <p>7 50 MM GALVANIZED STEEL CONDUIT</p> <p>8 TEMPERATURE SENSOR</p> <p>9 D1 CONTRACTION PAVEMENT JOINT</p> <p>10 LONGITUDINAL PAVEMENT JOINT</p> <p>11 100 MM PVC CONDUIT OR 100 MM HIGH DENSITY POLYETHYLENE EHMW PIPE</p> </td> </tr> </table>	<p>1 DETECTOR HOUSING (SEE DETAIL)</p> <p>2 SIGNAL HANDHOLE WITH NEENAH R-1672 SOLID LID &amp; RING ASSY</p> <p>3 TYPE "M" SIGNAL CONTROLLER CABINET AND FOUNDATION</p> <p>4 CONNECT TO NEAREST CATCH BASIN</p> <p>5 76 MM PVC CONDUIT OR 76 MM HIGH DENSITY POLYETHYLENE EHMW PIPE</p>	<p>6 50 MM PVC CONDUIT OR 50 MM HIGH DENSITY POLYETHYLENE EHMW PIPE</p> <p>7 50 MM GALVANIZED STEEL CONDUIT</p> <p>8 TEMPERATURE SENSOR</p> <p>9 D1 CONTRACTION PAVEMENT JOINT</p> <p>10 LONGITUDINAL PAVEMENT JOINT</p> <p>11 100 MM PVC CONDUIT OR 100 MM HIGH DENSITY POLYETHYLENE EHMW PIPE</p>	<p style="text-align: center;"><b>REVISIONS</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	DATE	DESCRIPTION												<p>RECOMMENDED FOR APPROVAL <i>Scott A. MacArthur</i> 6-9-05  <small>DESIGN ENGINEER DATE</small></p> <hr/> <p>DESIGNED: DRK      DRAWN: DRK</p> <hr/> <p>CHECKED: DRK      CHECKED: DRK</p>	<p><b>INDIANA</b>  <b>DEPARTMENT OF TRANSPORTATION</b></p> <hr/> <p><b>EB LANE LAYOUT</b></p>	<p style="text-align: center;">I-80/94/US 6        KINGERY-BORMAN EXPRESSWAY        BURNHAM ROAD TO US 41</p> <hr/> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <p>HORIZONTAL SCALE Not To Scale</p> </td> <td style="width: 50%; border: none;"> <p style="text-align: center;"><b>WIM</b> STATION DETAILS</p> </td> </tr> <tr> <td style="border: none;"> <p>VERTICAL SCALE Not To Scale</p> </td> <td style="border: none;"></td> </tr> </table>	<p>HORIZONTAL SCALE Not To Scale</p>	<p style="text-align: center;"><b>WIM</b> STATION DETAILS</p>	<p>VERTICAL SCALE Not To Scale</p>	
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DATE	DESCRIPTION																						
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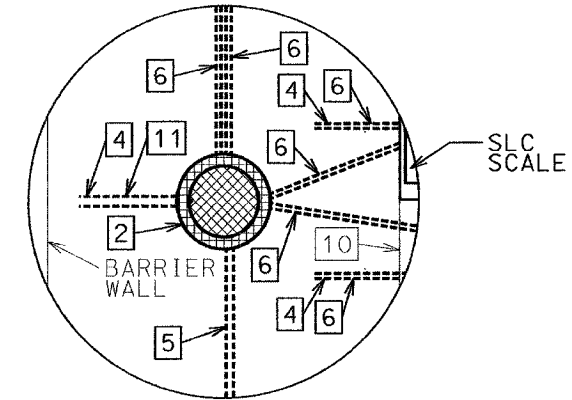
F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-1	COOK	1207	491
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114				



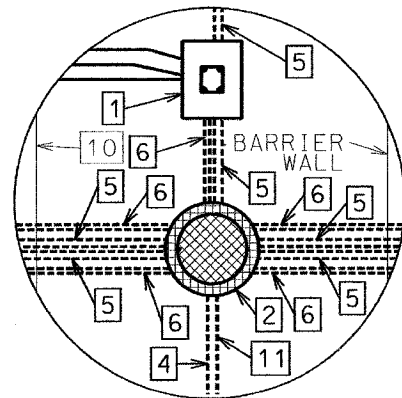
DETAIL EB 01



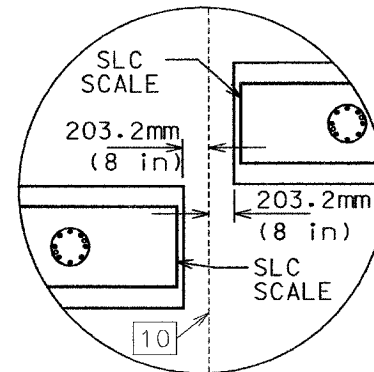
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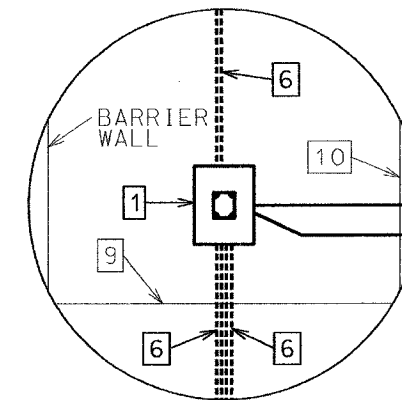
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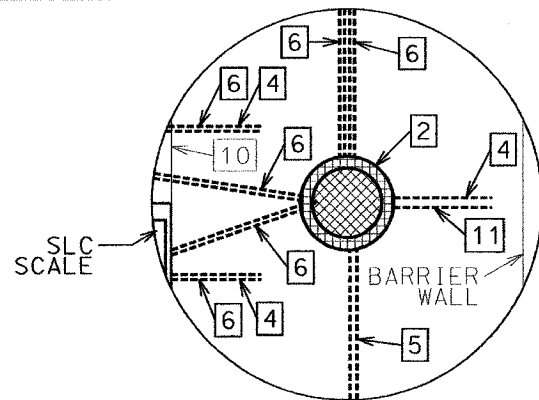
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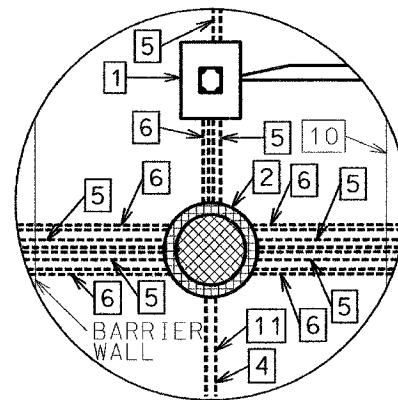
DETAIL EB 05



DETAIL EB 08



DETAIL EB 03



DETAIL EB 06

EB DETAILS

**LEGEND**

1 DETECTOR HOUSING (SEE DETAIL)	6 50 MM PVC CONDUIT OR 50 MM HIGH DENSITY POLYETHYLENE EHMW PIPE
2 SIGNAL HANDHOLE WITH NEENAH R-1672 SOLID LID & RING ASSY	7 50 MM GALVANIZED STEEL CONDUIT
3 TYPE "R" SIGNAL CONTROLLER CABINET AND FOUNDATION	8 TEMPERATURE SENSOR
4 CONNECT TO NEAREST CATCH BASIN	9 D1 CONTRACTION PAVEMENT JOINT
5 76 MM PVC CONDUIT OR 76 MM HIGH DENSITY POLYETHYLENE EHMW PIPE	10 LONGITUDINAL PAVEMENT JOINT
	11 100 MM PVC CONDUIT OR 100 MM HIGH DENSITY POLYETHYLENE EHMW PIPE

**REVISIONS**

DATE	DESCRIPTION



RECOMMENDED FOR APPROVAL: *Scott MacArthur 6-9-05*  
DESIGN ENGINEER DATE

DESIGNED: DRK	DRAWN: DRK
CHECKED: DRK	CHECKED: DRK

**INDIANA DEPARTMENT OF TRANSPORTATION**

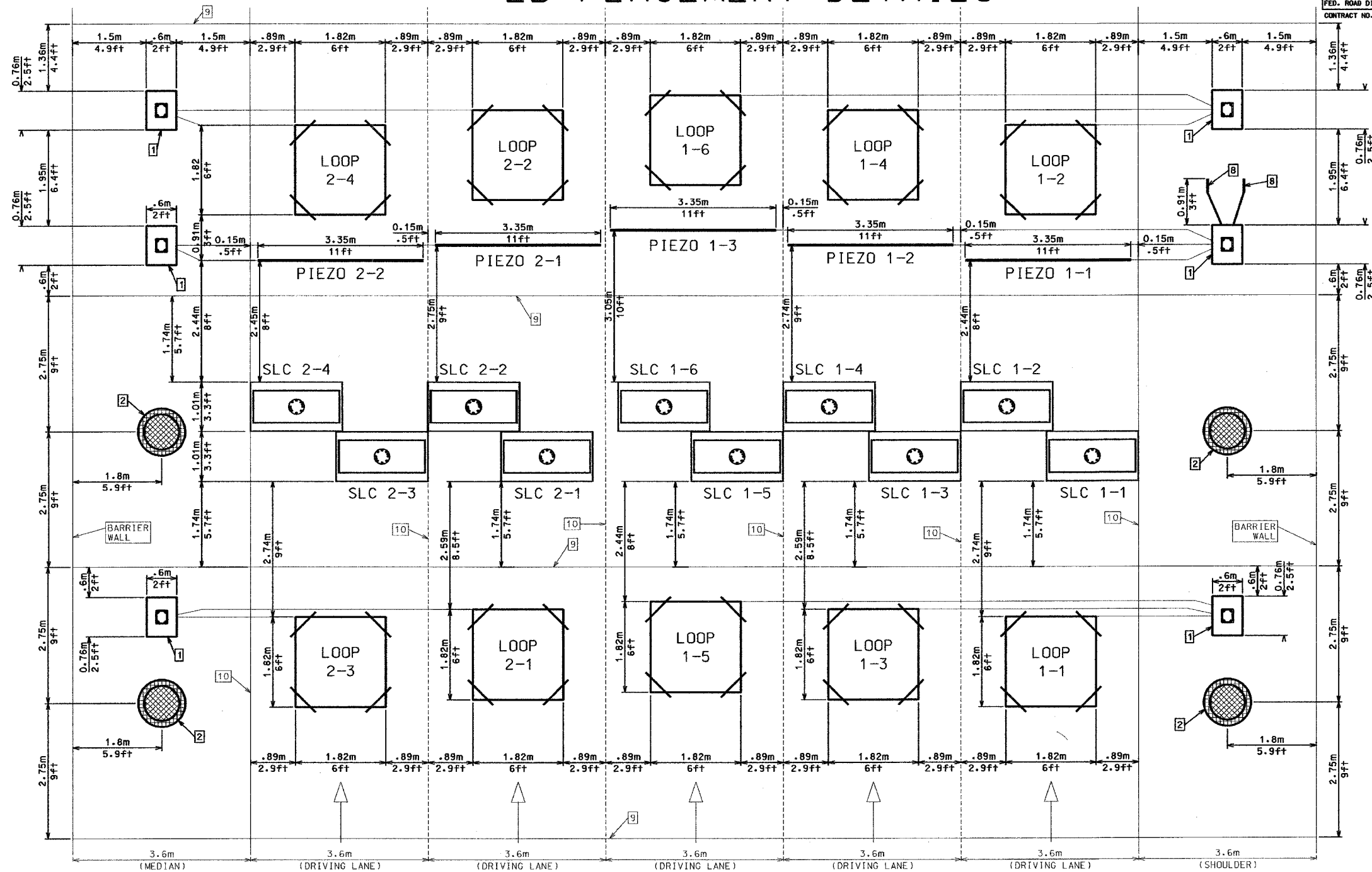
**EB DETAILS**

I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41

HORIZONTAL SCALE	WIM STATION DETAILS
Not To Scale	
VERTICAL SCALE	
Not To Scale	

# EB PLACEMENT DETAILS

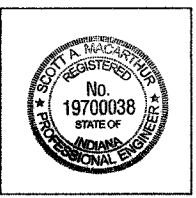
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626-2-R-1	COOK	1207	492
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114				



- NOTES:**
- UNDERGROUND CONDUITS HAVE BEEN OMITTED FOR CLARITY.
  - SENSOR LEAD CUTS SHALL BE PERPENDICULAR TO LONGITUDINAL PAVEMENT JOINTS EXCEPTING ON SHOULDERS AND MEDIAN PAVEMENT.

LEGEND	
1	DETECTOR HOUSING (SEE DETAIL)
2	SIGNAL HANDHOLE WITH NEENAH R-1672 SOLID LID & RING ASSY
3	TYPE "A" SIGNAL CONTROLLER CABINET AND FOUNDATION
4	CONNECT TO NEAREST CATCH BASIN
5	76 MM PVC CONDUIT OR 76 MM HIGH DENSITY POLYETHYLENE EHMW PIPE
6	50 MM PVC CONDUIT OR 50 MM HIGH DENSITY POLYETHYLENE EHMW PIPE
7	50 MM GALVANIZED STEEL CONDUIT
8	TEMPERATURE SENSOR
9	D1 CONTRACTION PAVEMENT JOINT
10	LONGITUDINAL PAVEMENT JOINT
11	100 MM PVC CONDUIT OR 100 MM HIGH DENSITY POLYETHYLENE EHMW PIPE

REVISIONS	
DATE	DESCRIPTION



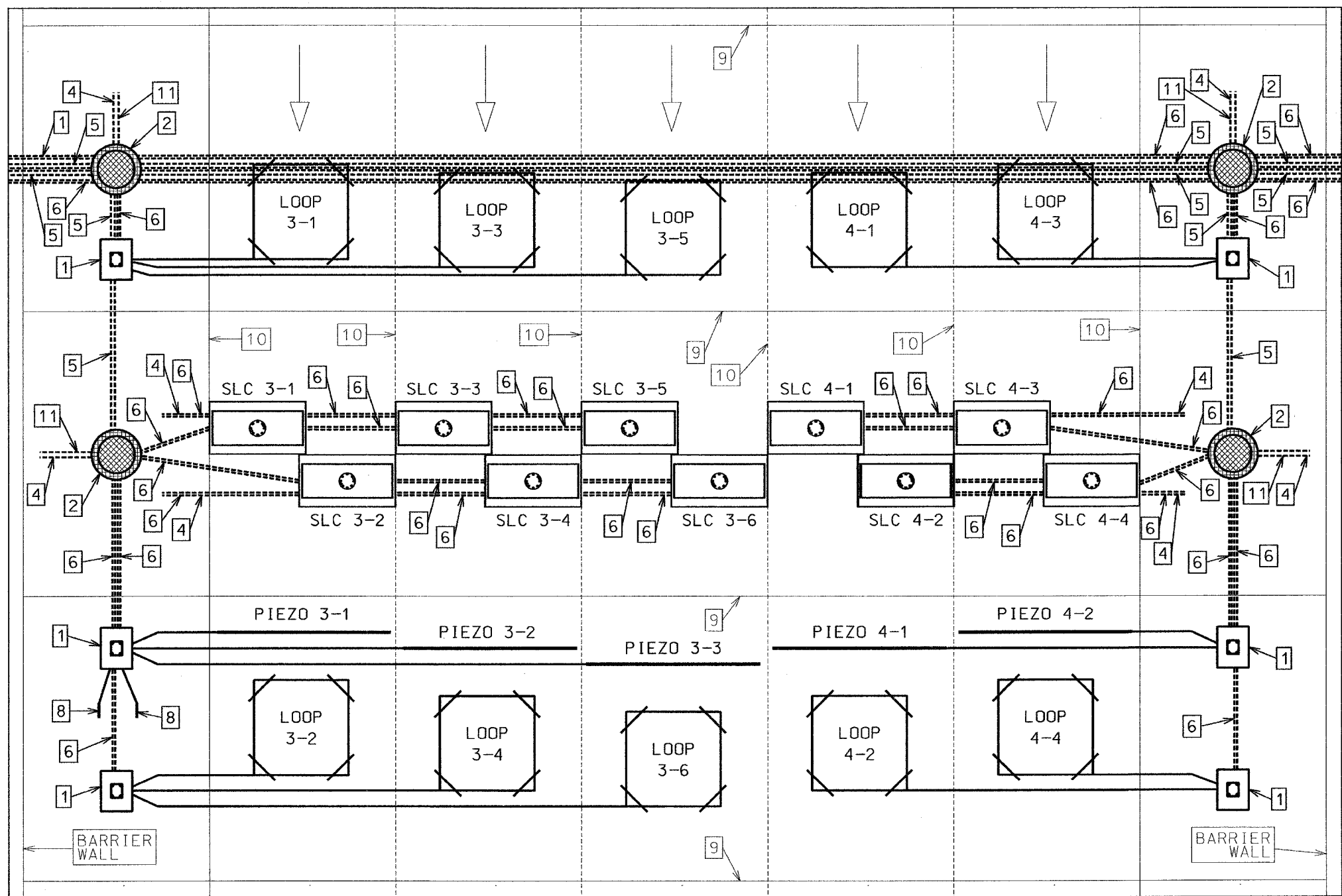
RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	
<i>Scott A. MacArthur</i>		6-9-05	
DATE			
DESIGNED: DRK	DRAWN: DRK		
CHECKED: DRK	CHECKED: DRK		

**INDIANA DEPARTMENT OF TRANSPORTATION**

**EB PLACEMENT DETAILS**

I-80/94/US 6 KINGERY-BORMAN EXPRESSWAY BURNHAM ROAD TO US 41	
HORIZONTAL SCALE	<b>WIM STATION DETAILS</b>
Not To Scale	
VERTICAL SCALE	
Not To Scale	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2826.2-R-1	COOK	1207	493
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114				



NOTES:  
 1. FOR ADDITIONAL PLACEMENT AND SENSOR SIZE DETAILS, SEE THE WB PLACEMENT DETAILS AND WB DETAILS SHEETS OF THE PLANS.

### WB LANE LAYOUT

- LEGEND**
- 1 DETECTOR HOUSING (SEE DETAIL)
  - 2 WEIGH-IN-MOTION HANDHOLE WITH FRAME, FLANGE, & LID ASSEMBLY
  - 3 TYPE "R" SIGNAL CONTROLLER CABINET AND FOUNDATION
  - 4 CONNECT TO NEAREST CATCH BASIN
  - 5 76 MM PVC CONDUIT OR 76 MM HIGH DENSITY POLYETHYLENE EHMW PIPE
  - 6 50 MM PVC CONDUIT OR 50 MM HIGH DENSITY POLYETHYLENE EHMW PIPE
  - 7 50 MM GALVANIZED STEEL CONDUIT
  - 8 TEMPERATURE SENSOR
  - 9 D1 CONTRACTION PAVEMENT JOINT
  - 10 LONGITUDINAL PAVEMENT JOINT
  - 11 100 MM PVC CONDUIT OR 100 MM HIGH DENSITY POLYETHYLENE EHMW PIPE

REVISIONS	
DATE	DESCRIPTION



RECOMMENDED FOR APPROVAL *Scott A. MacArthur* 6-9-05  
 DESIGN ENGINEER DATE

DESIGNED: DRK DRAWN: DRK  
 CHECKED: DRK CHECKED: DRK

**INDIANA DEPARTMENT OF TRANSPORTATION**

**WB LANE LAYOUT**

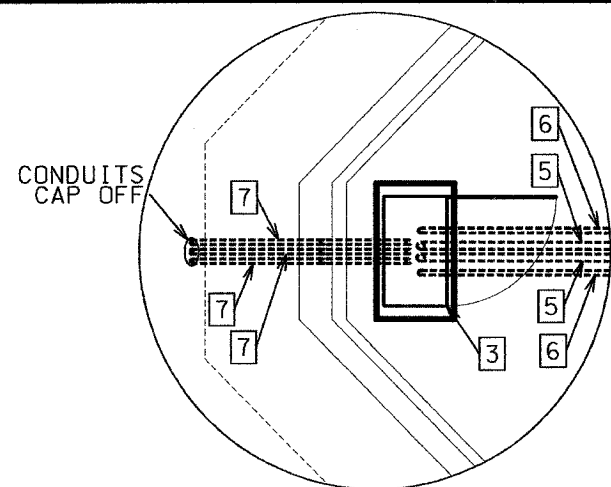
I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41

HORIZONTAL SCALE  
 Not To Scale

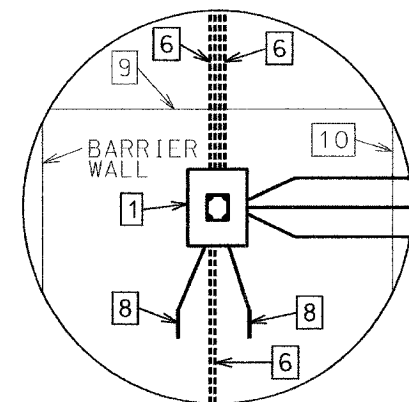
VERTICAL SCALE  
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**WIM STATION DETAILS**

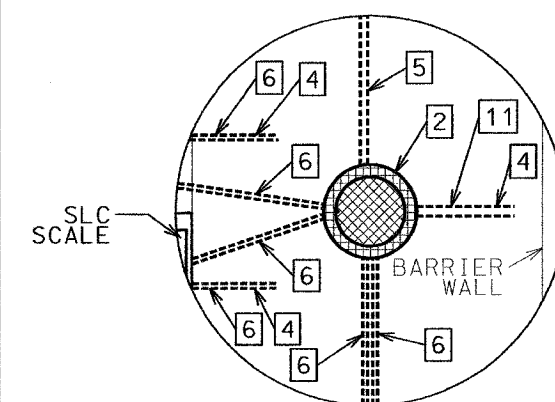
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80/94	2626.2-R-1	COOK	1207	494
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114				



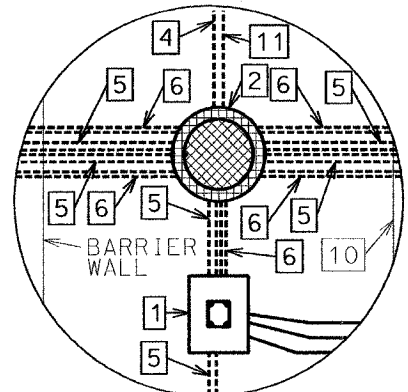
DETAIL WB 01



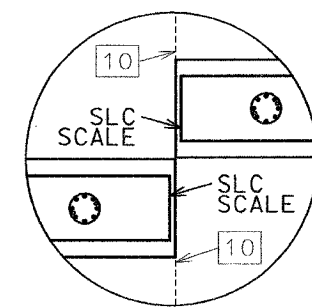
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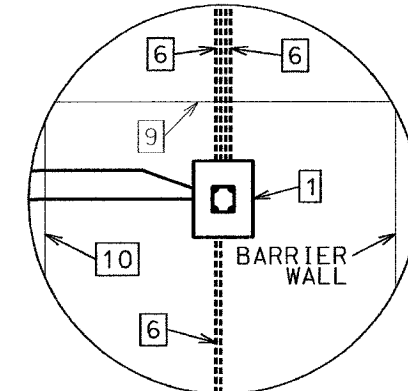
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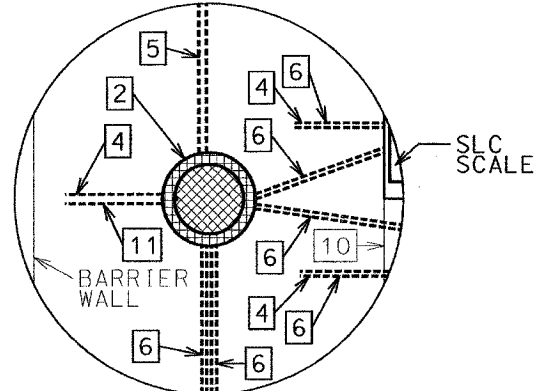
DETAIL WB 02



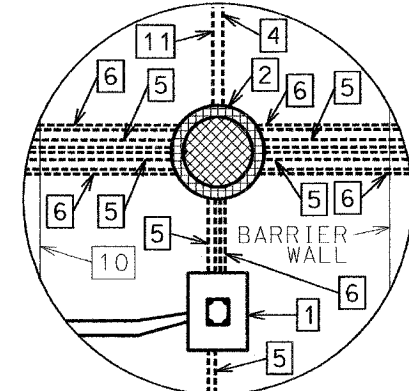
DETAIL WB 05



DETAIL WB 08



DETAIL WB 03



DETAIL WB 06

WB DETAILS

**LEGEND**

1 DETECTOR HOUSING (SEE DETAIL)	6 50 MM PVC CONDUIT OR 50 MM HIGH DENSITY POLYETHYLENE EHMW PIPE
2 SIGNAL HANDHOLE WITH NEENAH R-1672 SOLID LID & RING ASSY	7 50 MM GALVANIZED STEEL CONDUIT
3 TYPE "B" SIGNAL CONTROLLER CABINET AND FOUNDATION	8 TEMPERATURE SENSOR
4 CONNECT TO NEAREST CATCH BASIN	9 D1 CONTRACTION PAVEMENT JOINT
5 76 MM PVC CONDUIT OR 76 MM HIGH DENSITY POLYETHYLENE EHMW PIPE	10 LONGITUDINAL PAVEMENT JOINT
	11 100 MM PVC CONDUIT OR 100 MM HIGH DENSITY POLYETHYLENE EHMW PIPE

**REVISIONS**

DATE	DESCRIPTION



RECOMMENDED FOR APPROVAL: *Scott MacArthur* 6-9-05  
DESIGN ENGINEER DATE

DESIGNED: DRK	DRAWN: DRK
CHECKED: DRK	CHECKED: DRK

**INDIANA DEPARTMENT OF TRANSPORTATION**

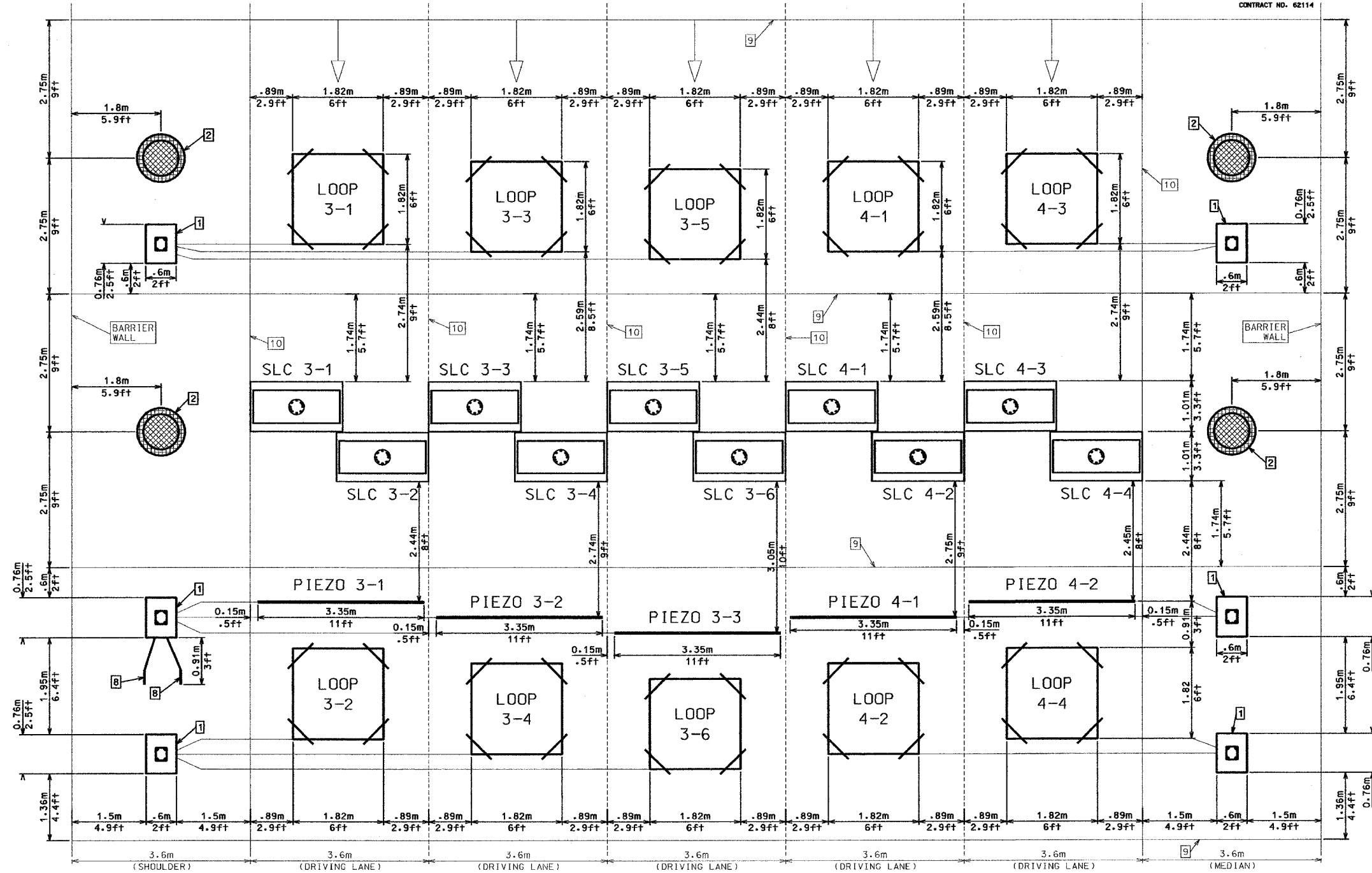
**WB DETAILS**

I-80/94/US 6  
KINGERY-BORMAN EXPRESSWAY  
BURNHAM ROAD TO US 41

HORIZONTAL SCALE Not To Scale	WIM STATION DETAILS
VERTICAL SCALE Not To Scale	

# WB PLACEMENT DETAILS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-1	COOK	1207	495
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT
CONTRACT NO. 62114				



- NOTES:**
1. UNDERGROUND CONDUITS HAVE BEEN OMITTED FOR CLARITY.
  2. SENSOR LEAD CUTS SHALL BE PERPENDICULAR TO LONGITUDINAL PAVEMENT JOINTS EXCEPTING ON SHOULDERS AND MEDIAN PAVEMENT.

**LEGEND**

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>1 DETECTOR HOUSING (SEE DETAIL)</li> <li>2 SIGNAL HANDHOLE WITH NEENAH R-1672 SOLID LID &amp; RING ASSY</li> <li>3 TYPE "R" SIGNAL CONTROLLER CABINET AND FOUNDATION</li> <li>4 CONNECT TO NEAREST CATCH BASIN</li> <li>5 76 MM PVC CONDUIT OR 76 MM HIGH DENSITY POLYETHYLENE EHMW PIPE</li> </ul> | <ul style="list-style-type: none"> <li>6 50 MM PVC CONDUIT OR 50 MM HIGH DENSITY POLYETHYLENE EHMW PIPE</li> <li>7 50 MM GALVANIZED STEEL CONDUIT</li> <li>8 TEMPERATURE SENSOR</li> <li>9 D1 CONTRACTION PAVEMENT JOINT</li> <li>10 LONGITUDINAL PAVEMENT JOINT</li> <li>11 100 MM PVC CONDUIT OR 100 MM HIGH DENSITY POLYETHYLENE EHMW PIPE</li> </ul> |
|--|--|

**REVISIONS**

DATE	DESCRIPTION



RECOMMENDED FOR APPROVAL  
*Scott A. MacArthur 6-9-05*  
 DESIGN ENGINEER DATE

DESIGNED: DRK      DRAWN: DRK  
 CHECKED: DRK      CHECKED: DRK

**INDIANA DEPARTMENT OF TRANSPORTATION**

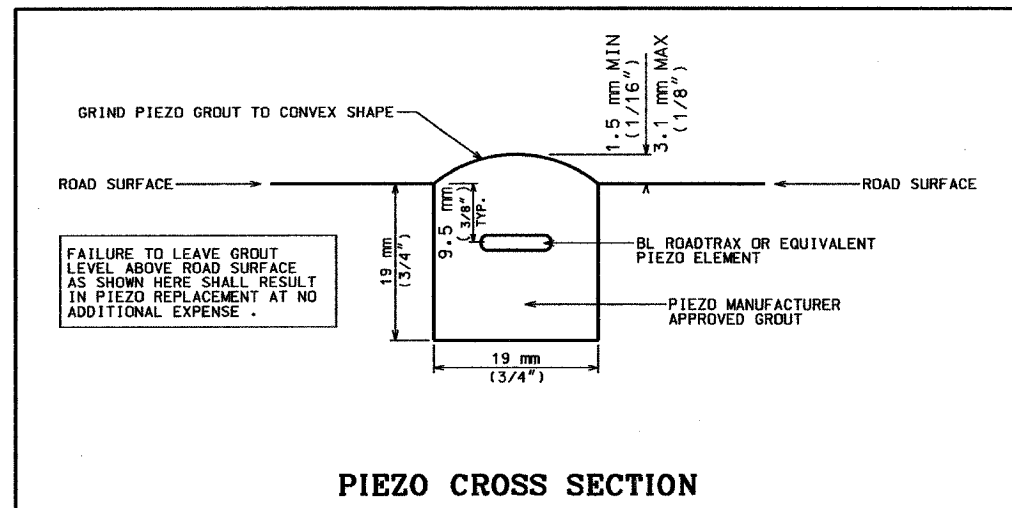
**WB PLACEMENT DETAILS**

I-80/94/US 6  
 KINGERY-BORMAN EXPRESSWAY  
 BURNHAM ROAD TO US 41

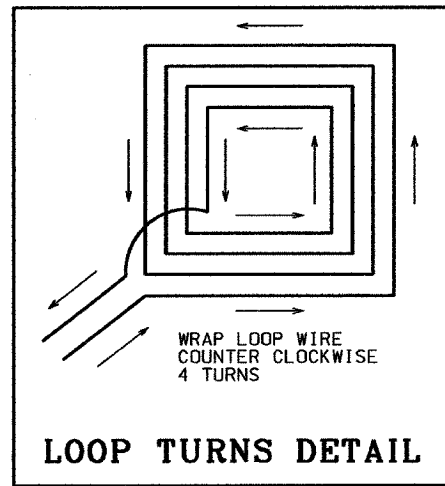
HORIZONTAL SCALE  
 Not To Scale  
 VERTICAL SCALE  
 Not To Scale

**WIM STATION DETAILS**

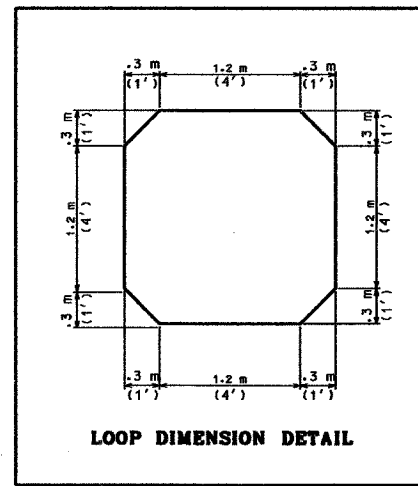
F.A.I. SHEETS NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-1	COOK	1207	496
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114				



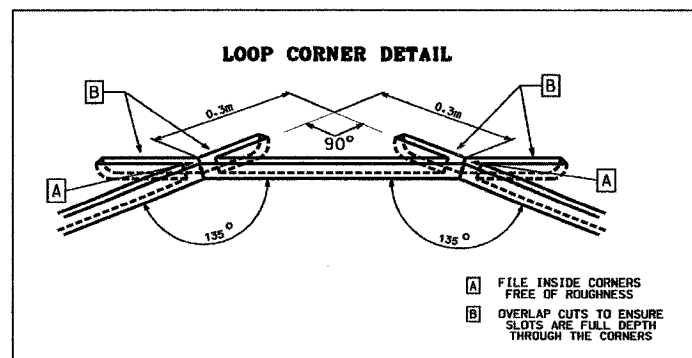
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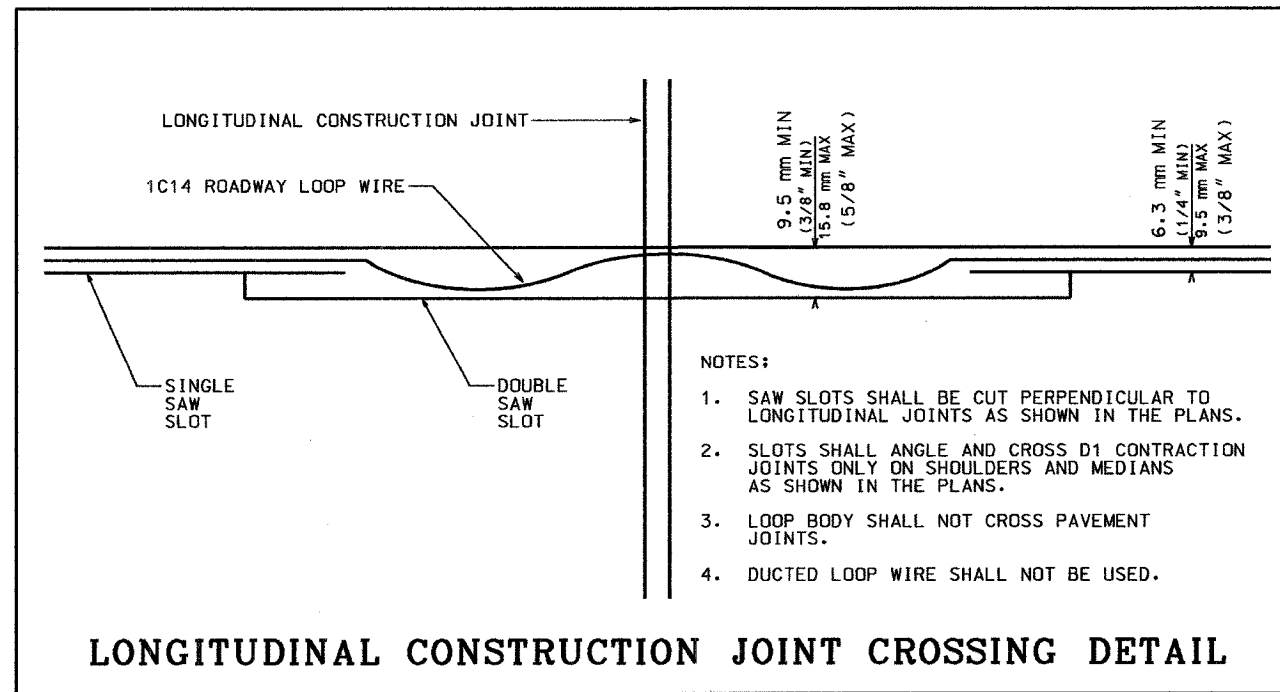
**LOOP TURNS DETAIL**



**LOOP DIMENSION DETAIL**



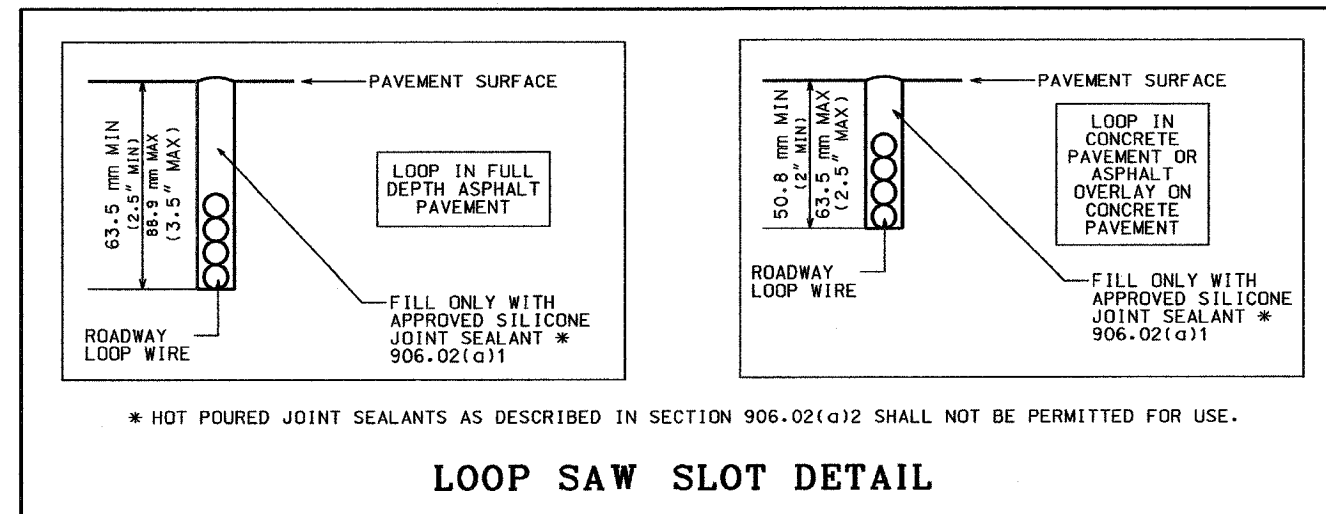
**LOOP CORNER DETAIL**



**NOTES:**

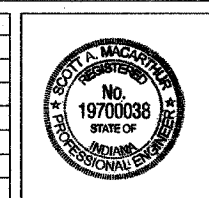
1. SAW SLOTS SHALL BE CUT PERPENDICULAR TO LONGITUDINAL JOINTS AS SHOWN IN THE PLANS.
2. SLOTS SHALL ANGLE AND CROSS D1 CONTRACTION JOINTS ONLY ON SHOULDERS AND MEDIANS AS SHOWN IN THE PLANS.
3. LOOP BODY SHALL NOT CROSS PAVEMENT JOINTS.
4. DUCTED LOOP WIRE SHALL NOT BE USED.

**LONGITUDINAL CONSTRUCTION JOINT CROSSING DETAIL**



**LOOP SAW SLOT DETAIL**


REVISIONS	
DATE	DESCRIPTION



RECOMMENDED FOR APPROVAL	<i>Scott MacArthur</i>	6-9-05	DATE
DESIGNED:	DRK	DRAWN:	DRK
CHECKED:	DRK	CHECKED:	DRK

**INDIANA DEPARTMENT OF TRANSPORTATION**

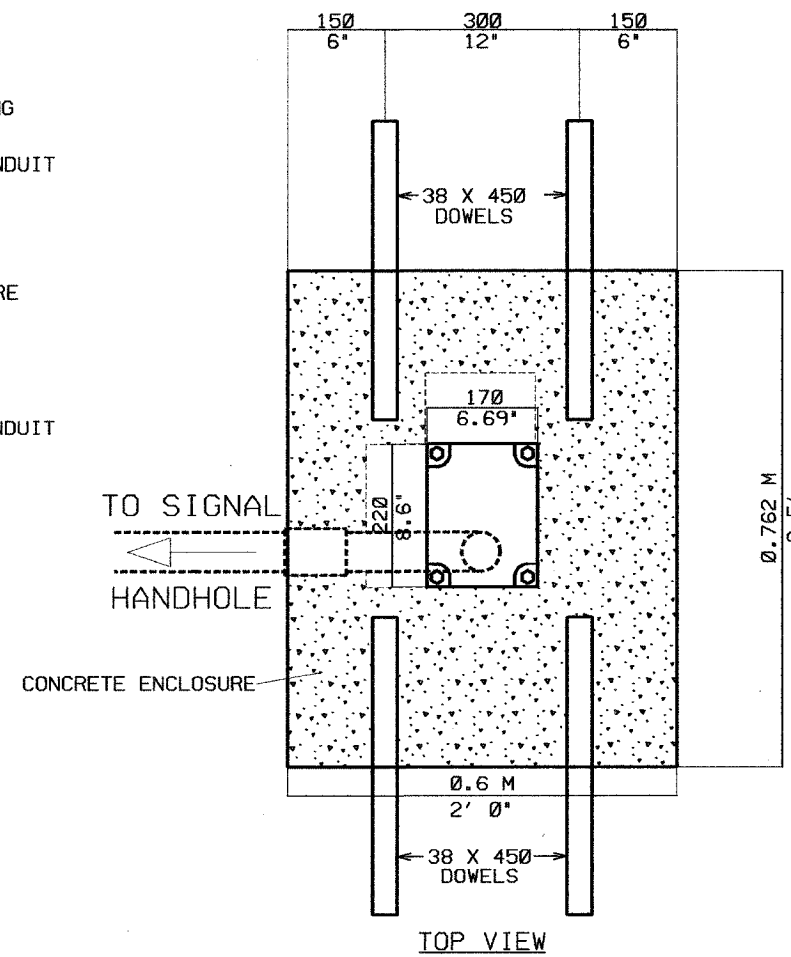
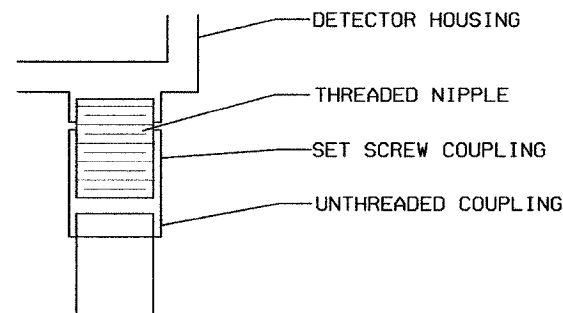
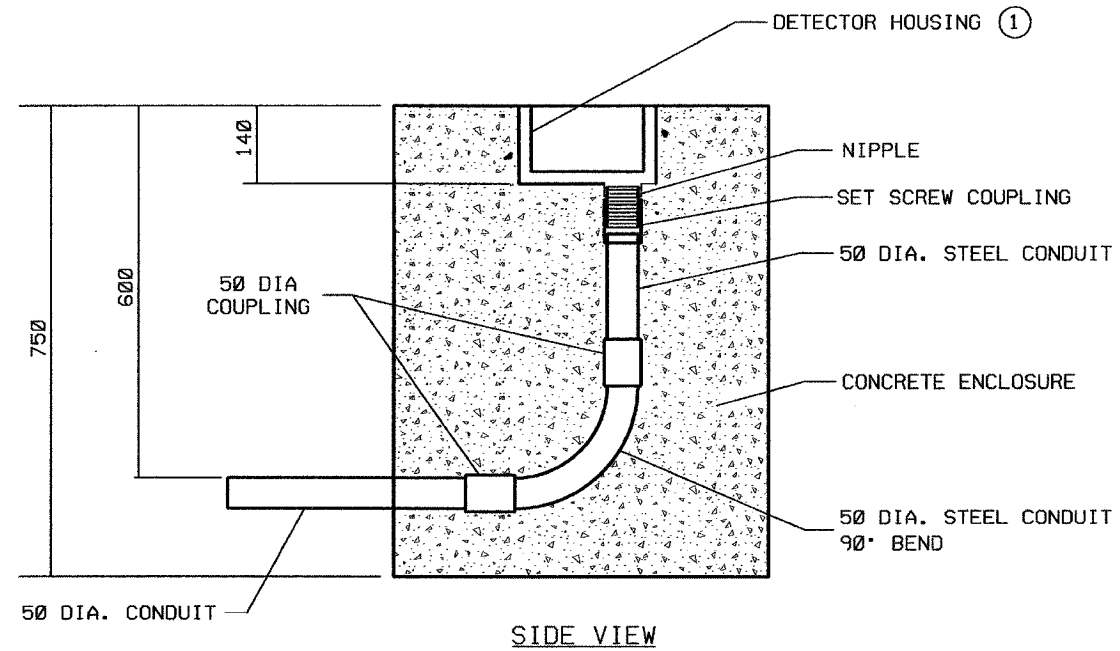
**DETAIL SHEET 1**

I-80/94/US 6 KINGERY-BORMAN EXPRESSWAY BURNHAM ROAD TO US 41	
HORIZONTAL SCALE	WIM STATION DETAILS
Not To Scale	
VERTICAL SCALE	
Not To Scale	



F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94	2626.2-R-1	COOK	1207	497
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62114				

## DETECTOR HOUSING INSTALLATION DETAIL



### GENERAL NOTES

① SEE STANDARD DRAWING 805-SGDH-02 FOR DETECTOR HOUSING DETAIL.

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED

REVISIONS	
DATE	DESCRIPTION

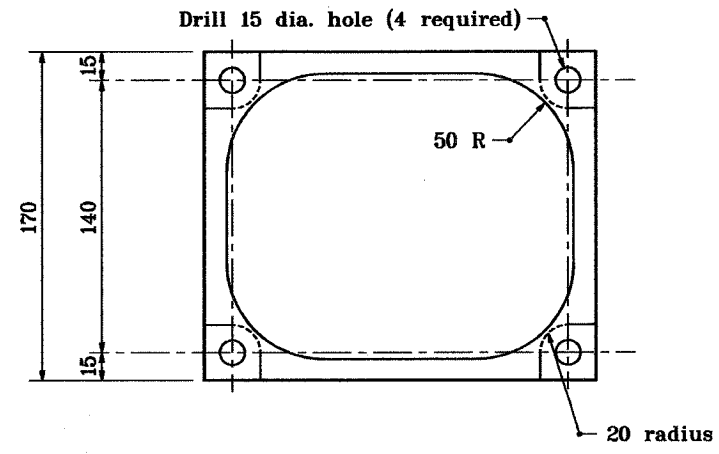
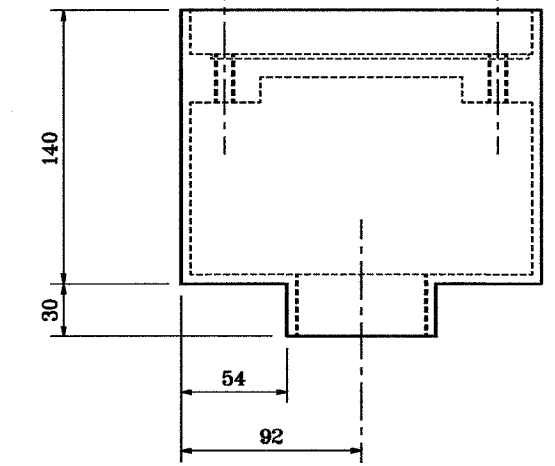
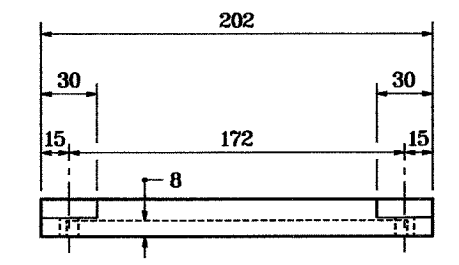
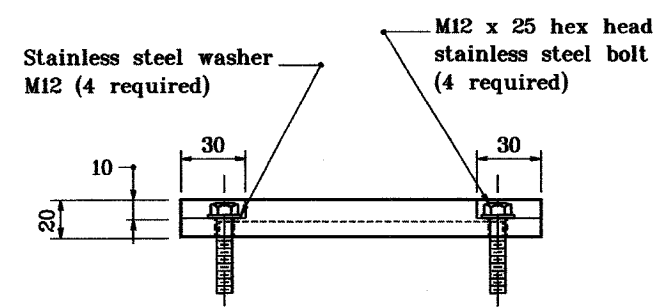
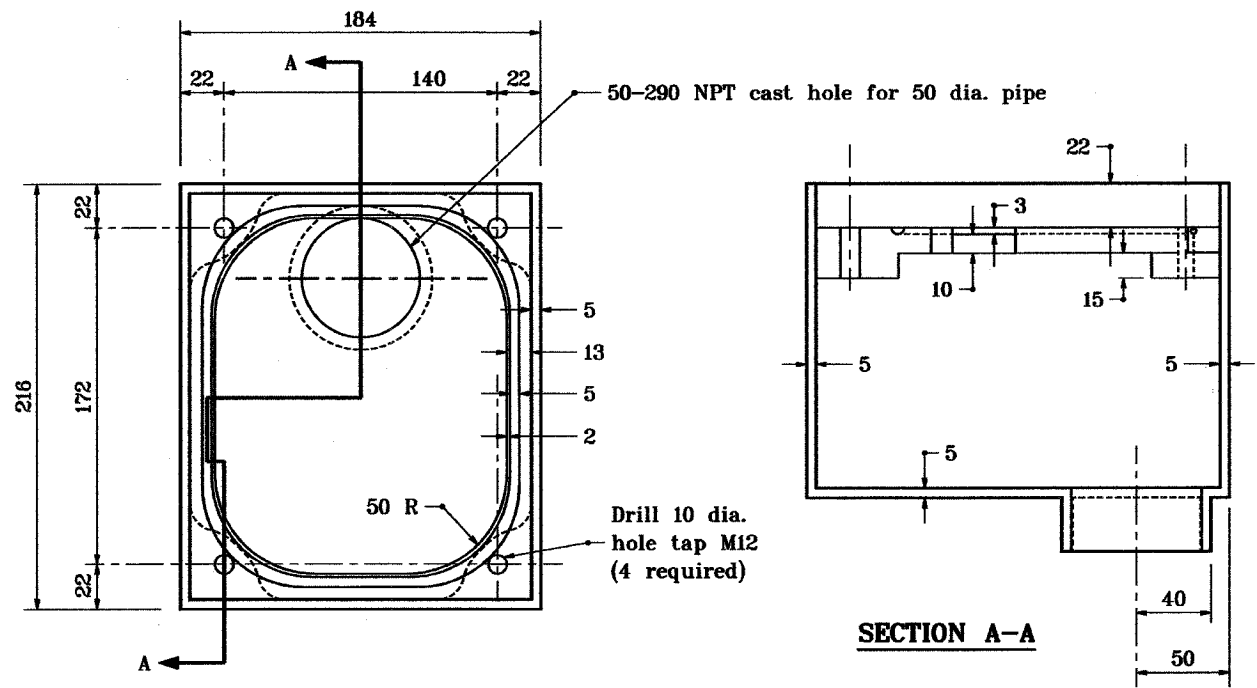


RECOMMENDED FOR APPROVAL	<i>Scott A. MacArthur</i>	6-9-05
DESIGN ENGINEER	DATE	
DESIGNED: DRK	DRAWN: DRK	
CHECKED: DRK	CHECKED: DRK	

**INDIANA**  
DEPARTMENT OF TRANSPORTATION

**DETECTOR HOUSING  
INSTALLATION DETAILS**

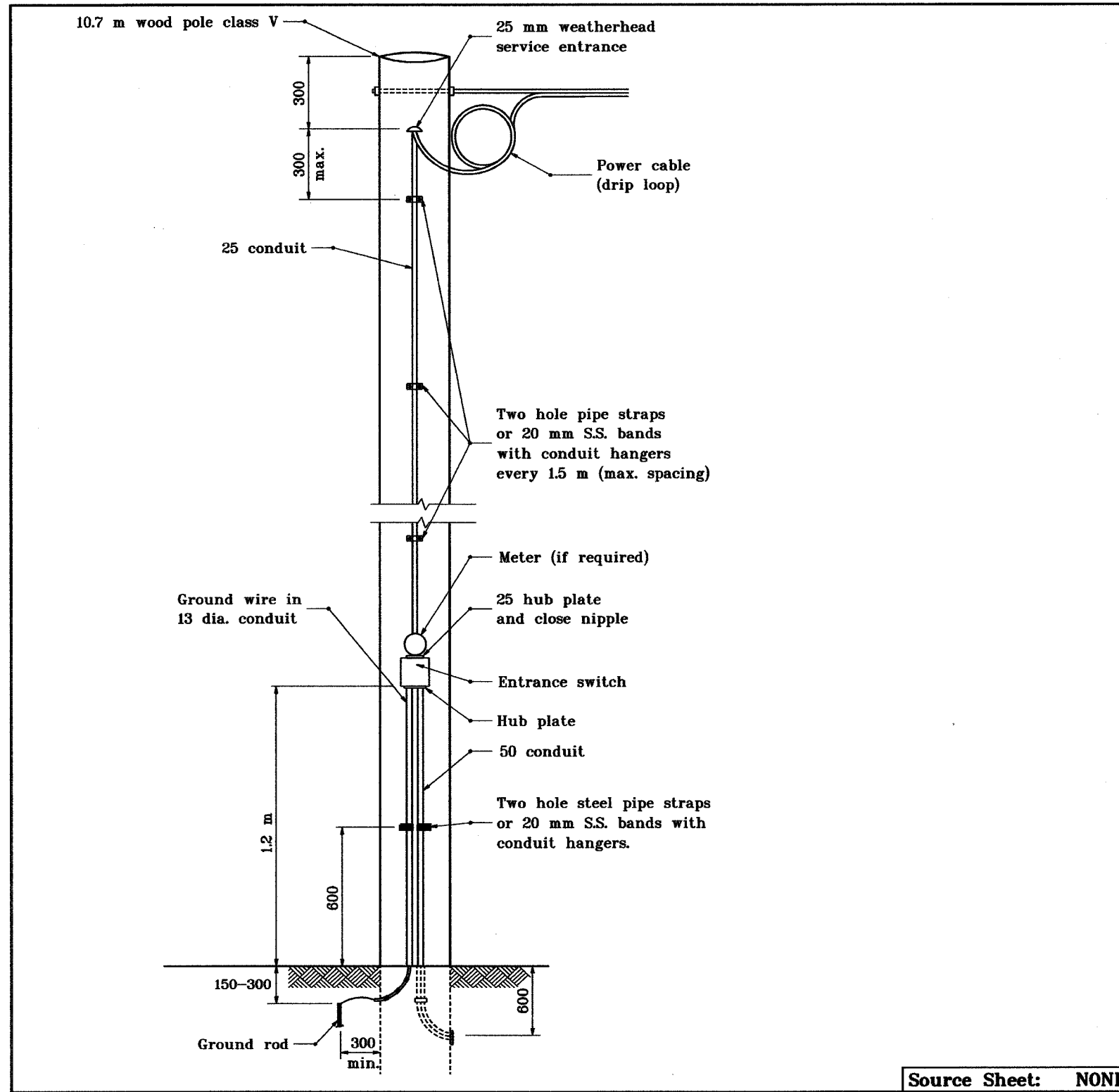
I-80/94/US 6 KINGERY-BORMAN EXPRESSWAY BURNHAM ROAD TO US 41	
HORIZONTAL SCALE	<b>WIM STATION DETAILS</b>
Not To Scale	
VERTICAL SCALE	
Not To Scale	



All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION	
DETAIL OF DETECTOR HOUSING	
MAY 1998	
STANDARD DRAWING NO. 805-SGDH-02	
	/s/ Anthony L. Uremovich 5-01-98 DESIGN STANDARDS ENGINEER DATE
	/s/ Donald W. Lucas 5-01-98 CHIEF HIGHWAY ENGINEER DATE

Source Sheet: NONE

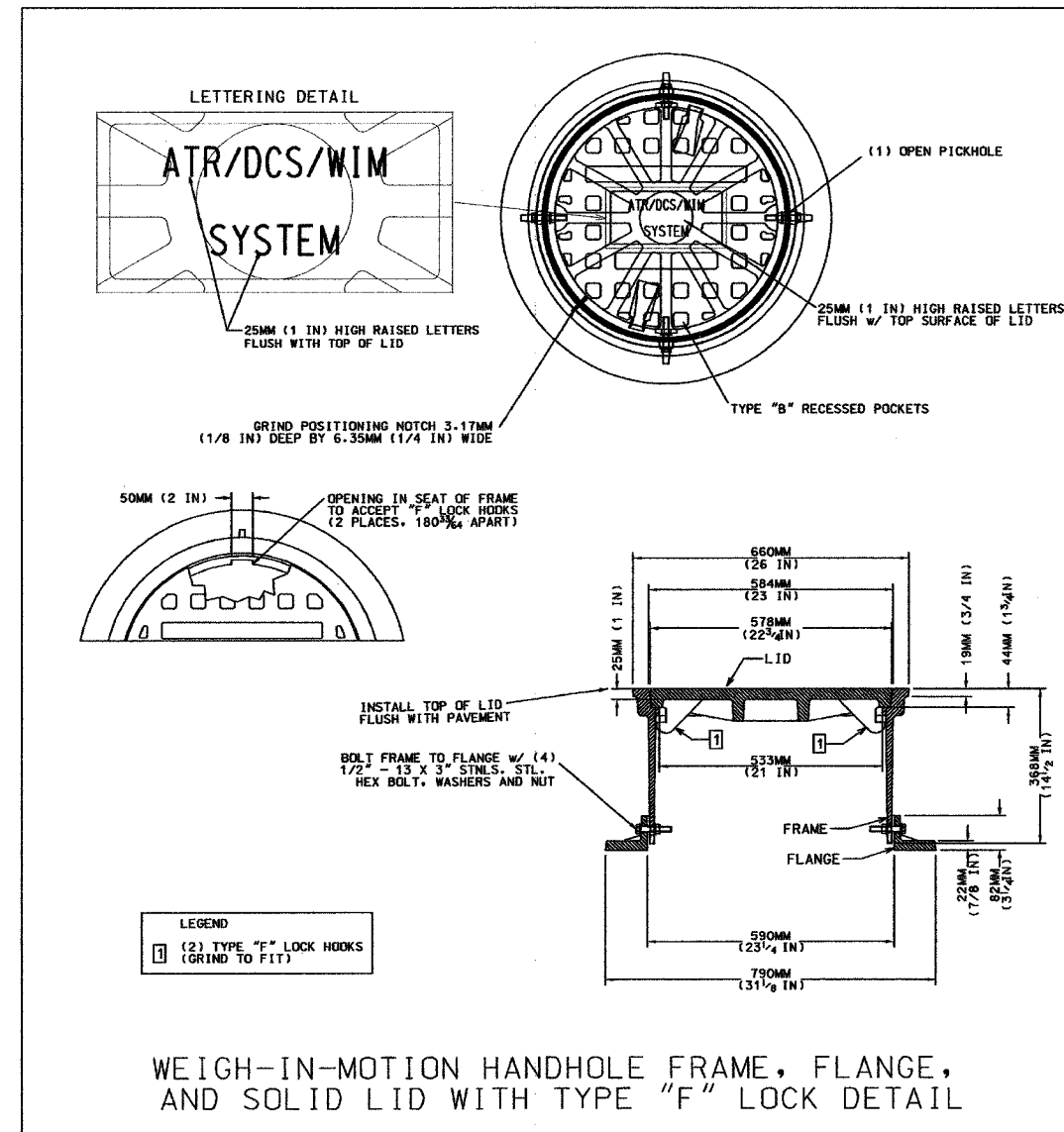
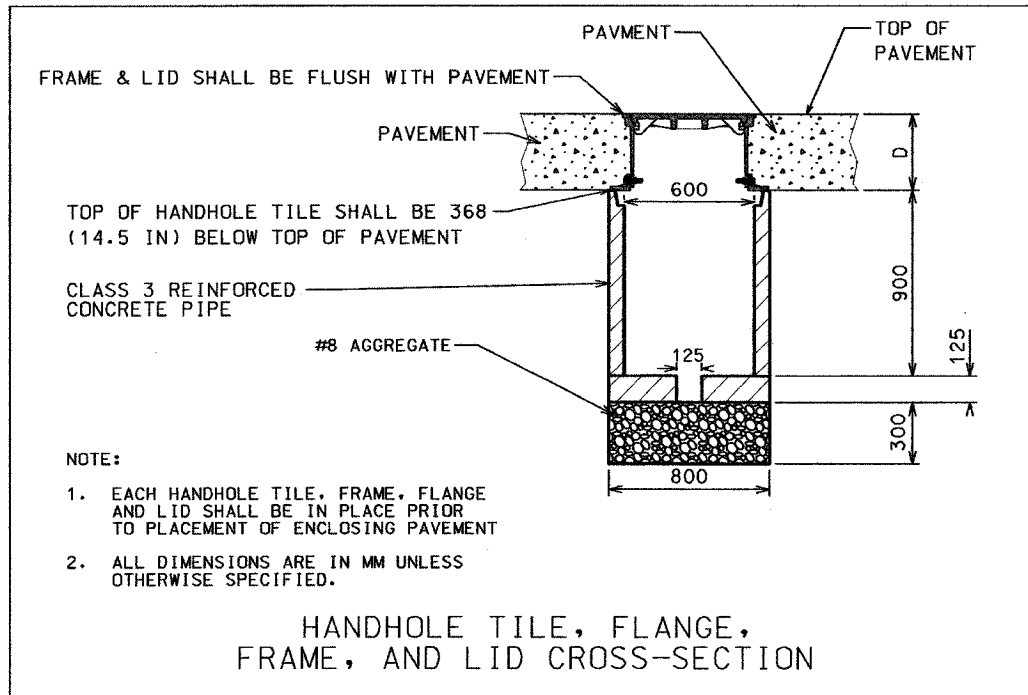


All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION	
SIGNAL SERVICE	
ON WOOD POLE	
SEPTEMBER 1998	
STANDARD DRAWING NO. 805-SGCO-03	
	/s/ Anthony L. Uremovich 9-01-98 DESIGN STANDARDS ENGINEER DATE
	/s/ Donald W. Lucas 9-01-98 CHIEF HIGHWAY ENGINEER DATE

Source Sheet: NONE

F.A.T. RTE. 80/94	SECTION 2626.2-R-1	COUNTY COOK	TOTAL SHEETS 1207	SHEET NO. 500
STA. TO STA.		ILLINOIS		
FED. ROAD DIST. NO.		FED. AID PROJECT		
CONTRACT NO. 62114				



# WEIGH-IN-MOTION STATION HANDHOLE DETAILS

	<b>REVISIONS</b>			RECOMMENDED FOR APPROVAL <i>Scott A. MacArthur 6-9-05</i> DESIGN ENGINEER DATE	<b>INDIANA DEPARTMENT OF TRANSPORTATION</b>	I-80/94/US 6 KINGERY-BORMAN EXPRESSWAY BURNHAM ROAD TO US 41
	DATE	DESCRIPTION				
				DESIGNED: DRK	DRAWN: DRK	HORIZONTAL SCALE Not To Scale VERTICAL SCALE Not To Scale
				CHECKED: DRK	CHECKED: DRK	