

### STAGE III

#### STAGE III NOTES

- SUGGESTED SEQUENCE OF CONSTRUCTION: PAVEMENT PATCHING, HMA SURFACE REMOVAL AND PROPOSED HMA COURSES AS DETAILED IN EACH OPERATION. THE CONTRACTOR MAY SUBMIT AN ALTERNATE SEQUENCE OF OPERATIONS PLAN FOR APPROVAL OF THE ENGINEER. IF THE ALTERNATE SEQUENCE OF OPERATIONS CONTAINS GRADE DIFFERENTIALS BETWEEN LANES GREATER THAN 2", A LONGITUDINAL WEDGE WILL BE REQUIRED. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL THE LOCATION(S) AND DETAIL(S) FOR THE LONGITUDINAL WEDGE IF REQUIRED. THE COST FOR THE PLACEMENT AND REMOVAL OF THE WEDGE SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF VARIOUS HMA ITEMS. RAMP WORK WILL BE COMPLETED USING DISTRICT DETAIL TC-8 - FREEWAY AND EXIT RAMP CLOSURE DETAILS.
- LANE AND RAMP CLOSURES ALLOWED AS STIPULATED IN THE SPECIAL PROVISIONS. CONTRACTOR MAY NOT CLOSE ADJACENT EXIT OR ENTRANCE RAMP AT THE SAME TIME.
- LANE CLOSURES FOR RESURFACING OPERATIONS SHALL BE AS STIPULATED IN THE SPECIAL PROVISION "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC."
- LANE CLOSURES PER STANDARDS 701400, 701401 AND 701446.
- REDUCE LANE WIDTH USING 35:1 TAPER PER DISTRICT DETAIL TC-9 - TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE AND MULTI-LANE WEAVE, A W5-1 (48 X 48) ROAD NARROWS SIGN WILL BE ERECTED 500' IN ADVANCE OF THE TAPER.
- THE CONTRACTOR SHALL ERECT ROAD CONSTRUCTION AHEAD SIGNS (W20-1103(0-48) WITH FLASHING BEACON ON ALL ARTERIAL ROADWAYS APPROACHING INTERCHANGE RAMP.
- GRADE DIFFERENTIAL BETWEEN LANES SHALL NOT EXCEED 2".
- PARTIAL MILLING OF PAVEMENT FOR AN OPERATION WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE PAID FOR AT THE FINAL MILLING THICKNESS SHOWN ON THE TYPICAL SECTIONS.
- EPOXY PAVEMENT MARKING LINES SHALL BE USED FOR TEMPORARY PAVEMENT MARKINGS.
- REMOVAL OF EXISTING PAVEMENT MARKING, WHEN REQUIRED, SHALL BE PAID FOR AS "PAVEMENT MARKING REMOVAL"
- EXISTING OR TEMPORARY PAVEMENT MARKINGS REMOVED DURING MILLING OPERATIONS WILL NOT BE PAID FOR SEPARATELY.
- CASTINGS EXPOSED IN TRAVEL LANES SHALL BE PROTECTED PER APPLICABLE PORTIONS OF ARTICLE 603.07 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE VARIOUS HMA/SMA BINDER AND SURFACE COURSES PLACED.
- OMIT STAGE III OPERATIONS THROUGH BRIDGE AND CONCRETE SECTIONS.
- SIGNS SHALL BE INSTALLED AS INSTRUCTED BELOW.



SIGN SHALL BE INSTALLED IN ADVANCE OF ALL OPEN/EXIT RAMP WHEN THE RIGHT LANES ARE CLOSED.

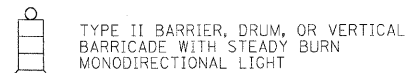


SIGN SHALL BE INSTALLED ON BOTH SIDES OF THE ROADWAY 500' IN ADVANCE OF AREAS WHERE THERE IS A GRADE DIFFERENTIAL BETWEEN LANES, AFTER EACH ENTRANCE RAMP AND A MINIMUM OF EVERY MILE.

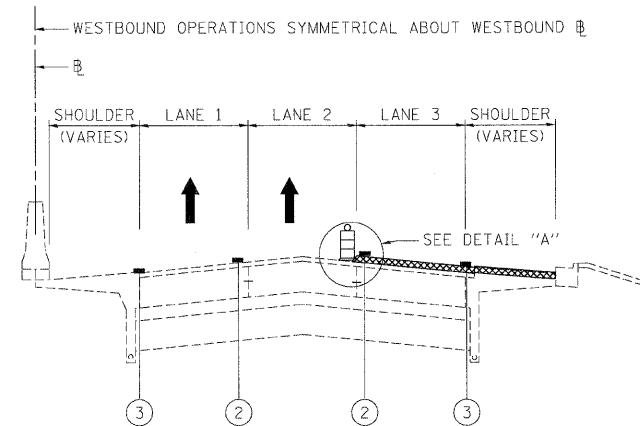
- THE CONTRACTOR SHALL COORDINATE THE ROADWAY AND STRUCTURAL WORK SO BITUMINOUS MATERIALS ARE NOT TRACKED ON THE BRIDGE DECKS BEFORE BEING SEALED.
- "EPOXY PAVEMENT MARKING - LETTERS AND SYMBOLS" SHALL BE INSTALLED ON MAINLINE ROADWAY DURING STAGE III OPERATIONS, IN LOCATIONS WHERE LETTERS/SYMBOLS PAVEMENT MARKINGS EXIST PRIOR TO SURFACE REMOVAL.
- WORK ZONE SPEED LIMIT SIGNS SHALL REMAIN IN PLACE UNTIL ALL BINDER IS PLACED.

#### LEGEND

- ① EXISTING PAVEMENT MARKING
- ② EPOXY PAVEMENT MARKING - LINE 5" (WHITE 10' DASH, 30' SKIP)
- ③ EPOXY PAVEMENT MARKING - LINE 4" (YELLOW LEFT & WHITE RIGHT)
- ④ PROPOSED PAVEMENT MARKING. SEE PAVEMENT MARKING PLANS.



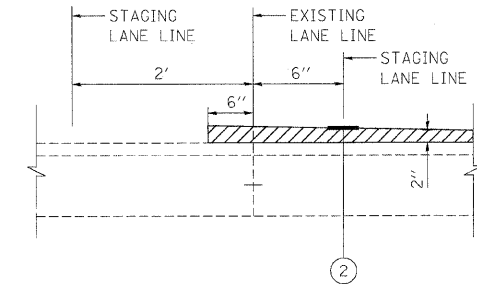
- BITUMINOUS SURFACE REMOVAL
- HMA/SMA BINDER AND SURFACE COURSES



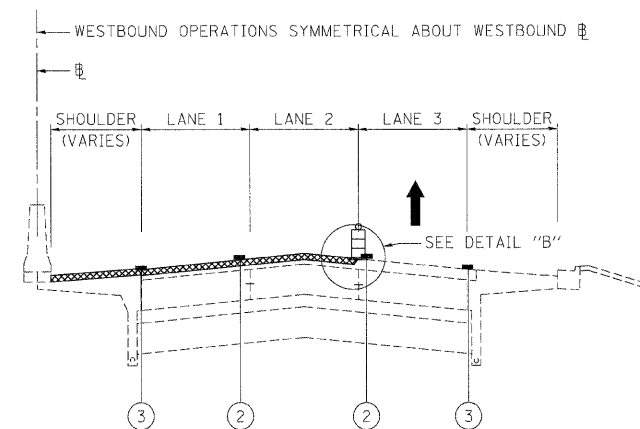
#### STAGE III - OPERATION FIVE - I-290

BINDER COURSE 2" - LANES 3, 4 & 5

BINDER COURSE 2-1/4" - AUXILIARY LANE, SHOULDER & INSIDE OF ROOSEVELT ROAD TO I-88



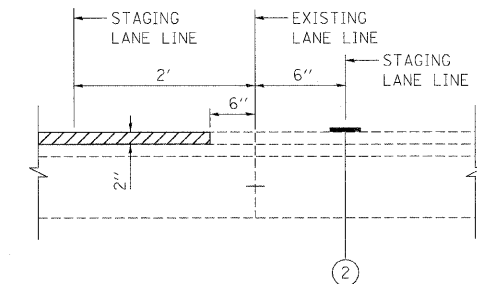
#### DETAIL A



#### STAGE III - OPERATION SIX - I-290

BINDER COURSE 2" - LANES 1 & 2

BINDER COURSE 2-1/4" - SHOULDER & OUTSIDE OF ROOSEVELT ROAD RAMP TO I-88



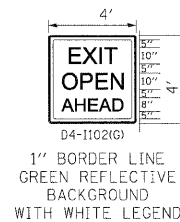
#### DETAIL B

FILE NAME = ...\\orpin\ABC\C2\ml\mot.tgp.st.3_04.dgn	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC TYPICAL SECTION - STAGE 3</b>	F.A.I. RTE. = 290	SECTION = (313), ETC., 3435)RS-6	COUNTY = COOK	TOTAL SHEETS = 215	SHEET NO. = 101		
USER NAME = jmojewski	DRAWN - TMB	REVISED -				SCALE:	SHEET NO. 47 OF 50 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			
PLOT DATE = 1/25/2010	CHECKED - JJT	REVISED -				CONTRACT NO. 60K10						
	DATE = 1/25/10	REVISED -										

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#### STAGE III NOTES

- SUGGESTED SEQUENCE OF CONSTRUCTION: PAVEMENT PATCHING, HMA SURFACE REMOVAL AND PROPOSED HMA COURSES AS DETAILED IN EACH OPERATION. THE CONTRACTOR MAY SUBMIT AN ALTERNATE SEQUENCE OF OPERATIONS PLAN FOR APPROVAL OF THE ENGINEER. IF THE ALTERNATE SEQUENCE OF OPERATIONS CONTAINS GRADE DIFFERENTIALS BETWEEN LANES GREATER THAN 2", A LONGITUDINAL WEDGE WILL BE REQUIRED. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL THE LOCATION(S) AND DETAIL(S) FOR THE LONGITUDINAL WEDGE IF REQUIRED. THE COST FOR THE PLACEMENT AND REMOVAL OF THE WEDGE SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF VARIOUS HMA ITEMS. RAMP WORK WILL BE COMPLETED USING DISTRICT DETAIL TC-8 - FREEWAY AND EXIT RAMP CLOSURE DETAILS.
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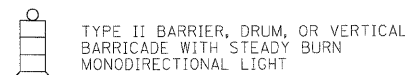


SIGN SHALL BE INSTALLED ON BOTH SIDES OF THE ROADWAY 500' IN ADVANCE OF AREAS WHERE THERE IS A GRADE DIFFERENTIAL BETWEEN LANES, AFTER EACH ENTRANCE RAMP AND A MINIMUM OF EVERY MILE.

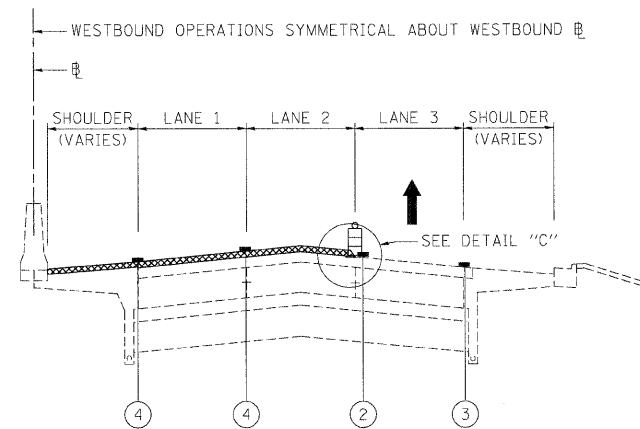
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#### LEGEND

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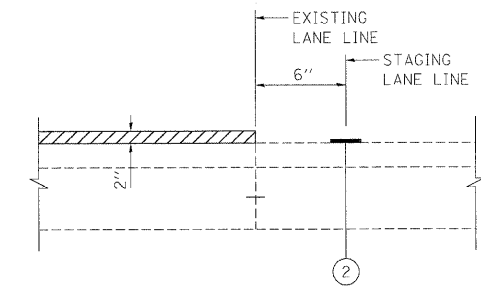
- BITUMINOUS SURFACE REMOVAL
- HMA/SMA BINDER AND SURFACE COURSES



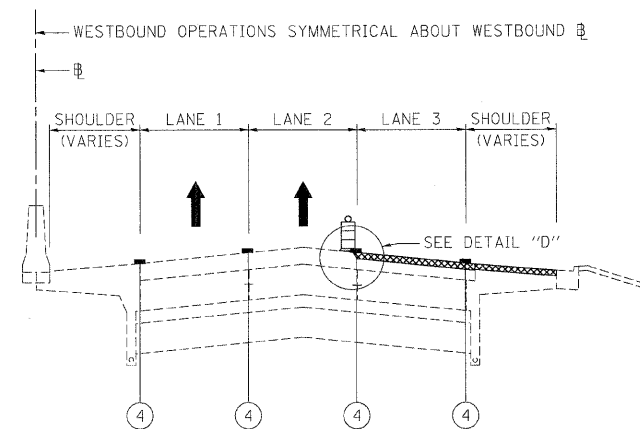
#### STAGE III - OPERATION SEVEN - I-290

SURFACE COURSE 2" - LANES 1 & 2

SURFACE COURSE 1-1/2" - SHOULDER & OUTSIDE OF ROOSEVELT ROAD RAMPS TO I-88



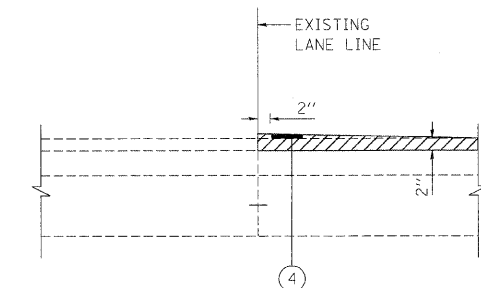
#### DETAIL C



#### STAGE III - OPERATION EIGHT - I-290

SURFACE COURSE 2" - LANES 3, 4, 5

SURFACE COURSE 1-1/2" - AUXILIARY LANE, SHOULDER & INSIDE OF ROOSEVELT ROAD RAMPS TO I-88



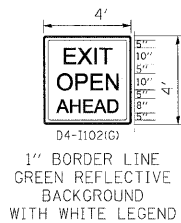
#### DETAIL D

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>			<b>MAINTENANCE OF TRAFFIC TYPICAL SECTION - STAGE 3</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
... \prip\rv_abc_c2.m3\mot_tgp.st.3.05.dgn	DRAWN - TMB	REVISED -								290	(313), ETC., 3435RS-6	COOK	215	102
USER NAME = jmo_jewski	CHECKED - JJT	REVISED -								CONTRACT NO. 60K10				
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -								ILLINOIS FED. AID PROJECT				
			SCALE:	SHEET NO. 48 OF 50 SHEETS	STA.	TO STA.								

**STAGE III**

STAGE III NOTES

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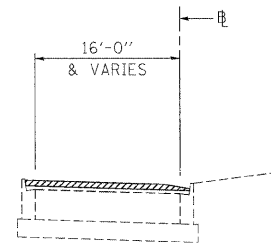


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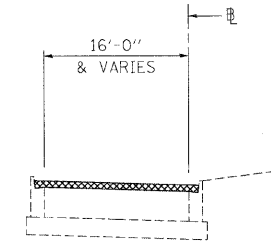
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- WORK ZONE SPEED LIMIT SIGNS SHALL REMAIN IN PLACE UNTIL ALL BINDER IS PLACED.

**LEGEND**

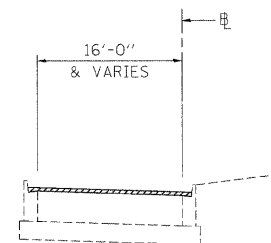
- ① EXISTING PAVEMENT MARKING
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- ③ EPOXY PAVEMENT MARKING - LINE 4" (YELLOW LEFT & WHITE RIGHT)
- ④ PROPOSED PAVEMENT MARKING. SEE PAVEMENT MARKING PLANS.
- TYPE II BARRIER, DRUM, OR VERTICAL BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- BITUMINOUS SURFACE REMOVAL
- HMA/SMA BINDER AND SURFACE COURSES



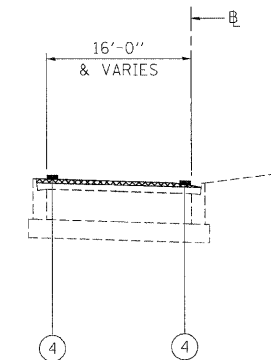
**STAGE III - RAMP OPERATION ONE - I-290**  
BITUMINOUS SURFACE REMOVAL 2"



**STAGE III - RAMP OPERATION THREE - I-290**  
BINDER COURSE 2-1/4"

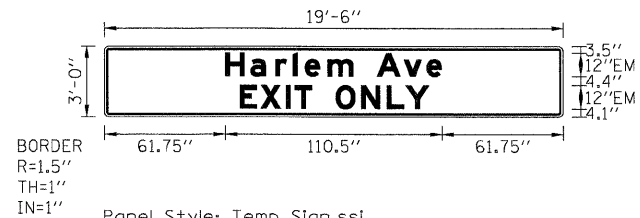


**STAGE III - RAMP OPERATION TWO - I-290**  
BITUMINOUS SURFACE REMOVAL FINAL 1-3/4"



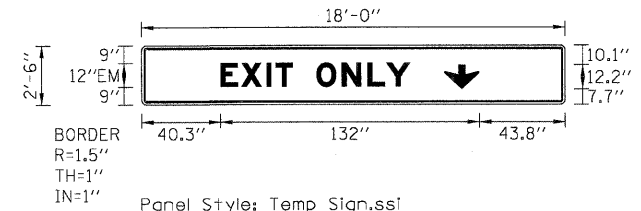
**STAGE III - RAMP OPERATION FOUR - I-290**  
SURFACE COURSE 1-1/2"

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC TYPICAL SECTION - STAGE 3</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...prpln_ABC_C2.m1_mot_tgp_st_3_06.dgn	DRAWN - TMB	REVISED -			290	(3131, ETC., 3435)RS-6	COOK	215	103			
USER NAME = jmojewski	CHECKED - JJT	REVISED -			CONTRACT NO. 60K10							
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -			ILLINOIS FED. AID PROJECT							
			SCALE:	SHEET NO. 49 OF 50 SHEETS	STA.	TO STA.						



Panel Style: Temp Sign.ssi  
 M.U.T.C.D.: 2003 Edition

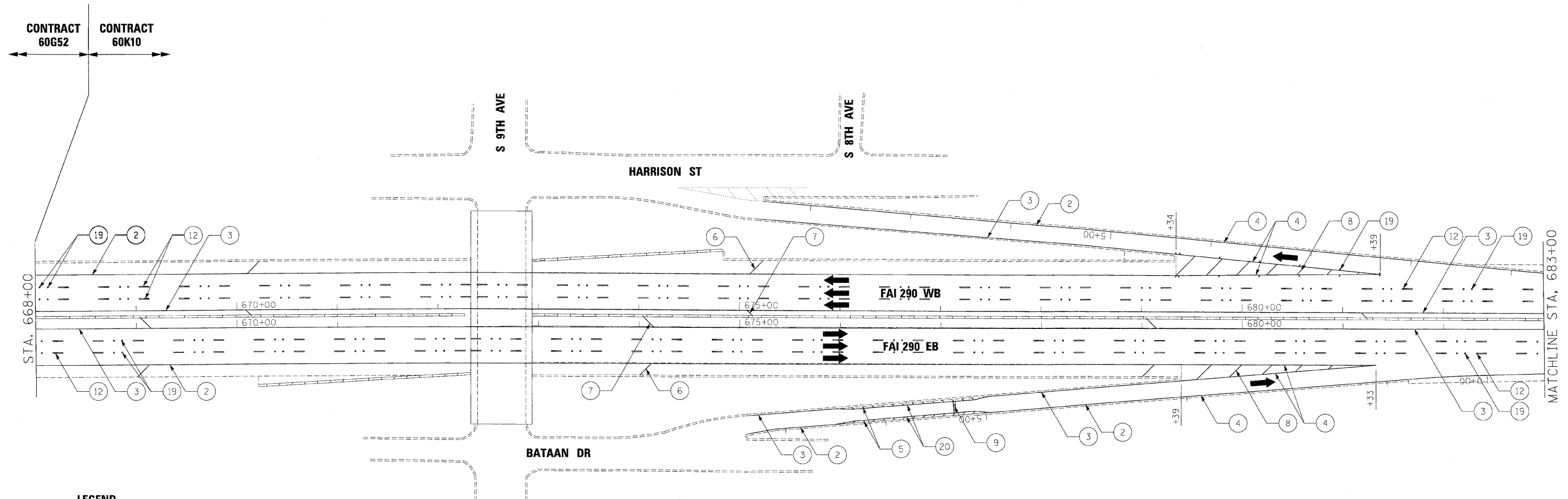
STAGE 2  
 BLACK LETTERS ON ORANGE BACKGROUND  
 STA 795+00



Panel Style: Temp Sign.ssi  
 M.U.T.C.D.: 2003 Edition

STAGE 2  
 BLACK LETTERS ON ORANGE BACKGROUND  
 STA 809+40  
 STA 836+30

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC TEMPORARY INFORMATION SIGNING</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\pp\in\ABC_C2_TempSignDetails_01.dgn	DRAWN - TMB	REVISED -				290	(3131, ETC., 3435)RS-6	COOK	215	104
USER NAME = jmojewski	CHECKED - JJT	REVISED -				CONTRACT NO. 60K10				
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -				FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
			SCALE: N.T.S.	SHEET NO. 50 OF 50 SHEETS	STA. TO STA.					

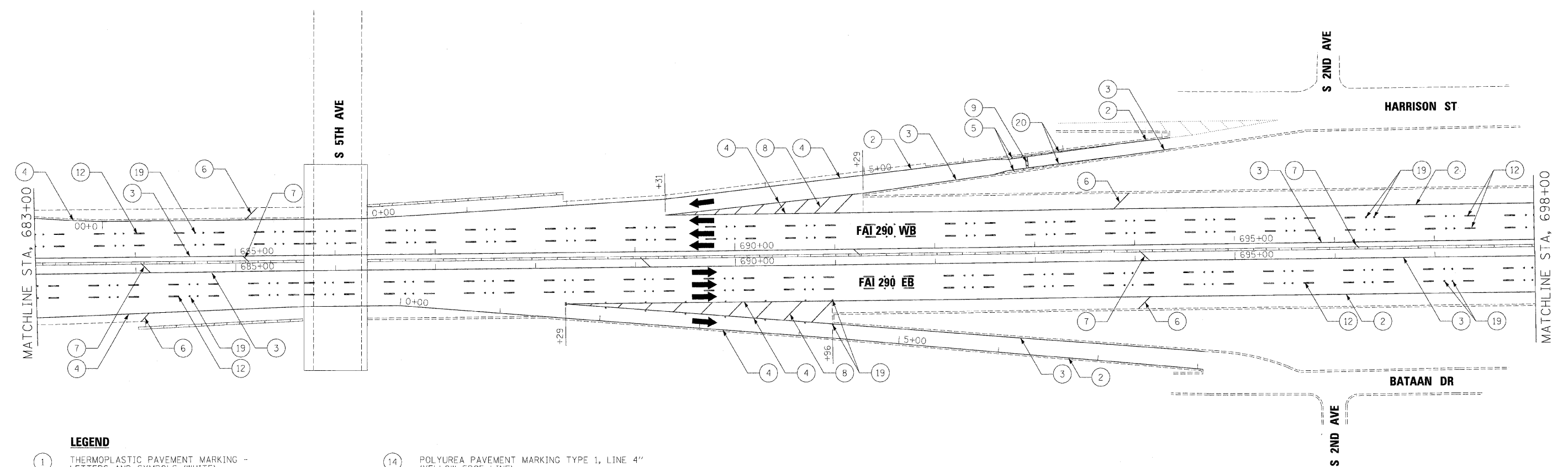
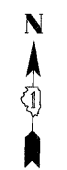


- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)</li> <li>② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE EDGE LINE)</li> <li>③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW EDGE LINE)</li> <li>④ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE EDGE LINE)</li> <li>⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE DIAGONALS SPACED @ 10' CENTERS)</li> <li>⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS SPACED @ 500' CENTERS)</li> <li>⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS)</li> <li>⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE GORE DIAGONALS SPACED @ 30' CENTERS)</li> <li>⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE)</li> <li>⑩ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID, LINE 4" (WHITE 2' DASH, 6' SKIP)</li> <li>⑪ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID, LINE 8" (WHITE 3' DASH, 9' SKIP)</li> <li>⑫ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID, LINE 5" (WHITE 10' DASH, 30' SKIP)</li> <li>⑬ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (WHITE EDGE LINE)</li> </ul> | <ul style="list-style-type: none"> <li>⑭ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (YELLOW EDGE LINE)</li> <li>⑮ POLYUREA PAVEMENT MARKING TYPE 1, LINE 8" (WHITE EDGE LINE)</li> <li>⑯ POLYUREA PAVEMENT MARKING TYPE 1, LINE 5" (WHITE 10' DASH, 30' SKIP)</li> <li>⑰ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (WHITE GORE DIAGONALS SPACED @ 30' CENTERS)</li> <li>⑱ RAISED REFLECTIVE PAVEMENT MARKER (1-WAY YELLOW / OPAQUE)</li> <li>⑲ RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL / OPAQUE)</li> <li>⑳ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE EDGE LINE)</li> <li>㉑ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE THRU LANE LINE)</li> <li>㉒ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS)</li> <li>㉓ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (WHITE DIAGONALS SPACED @ 500' CENTERS)</li> <li>㉔ POLYUREA PAVEMENT MARKING TYPE 1, LETTERS AND SYMBOLS (WHITE)</li> <li>㉕ POLYUREA PAVEMENT MARKING TYPE 1, LINE 8" (WHITE 3' DASH, 9' SKIP)</li> <li>㉖ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (WHITE 2' DASH, 6' SKIP)</li> </ul> |
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**NOTE:**

1. SEE IDOT DISTRICT 1 STANDARD TC-12 "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT AND TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS.
2. FOR PROPOSED PAVEMENT MARKINGS IN THE PCC SECTIONS USE POLYUREA PAVEMENT MARKINGS ACCORDING TO STANDARD TC-12.
3. REFER TO ROADWAY PLANS FOR LIMITS OF RESURFACING.

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING PLANS</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
...Nprpln\ABC_C2_290.pvm\mkg_19.dgn	DRAWN - TMB	REVISED -			<b>I-290 MAINLINE POB TO STA 683+00</b>			290	(3131, ETC., 3435)RS-6	COOK	215	105	
USER NAME = sblank	CHECKED - JWM	REVISED -			SCALE: 1"=50'			SHEET NO. 1 OF 14 SHEETS		CONTRACT NO. 60K10			
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -			STA. TO STA.			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



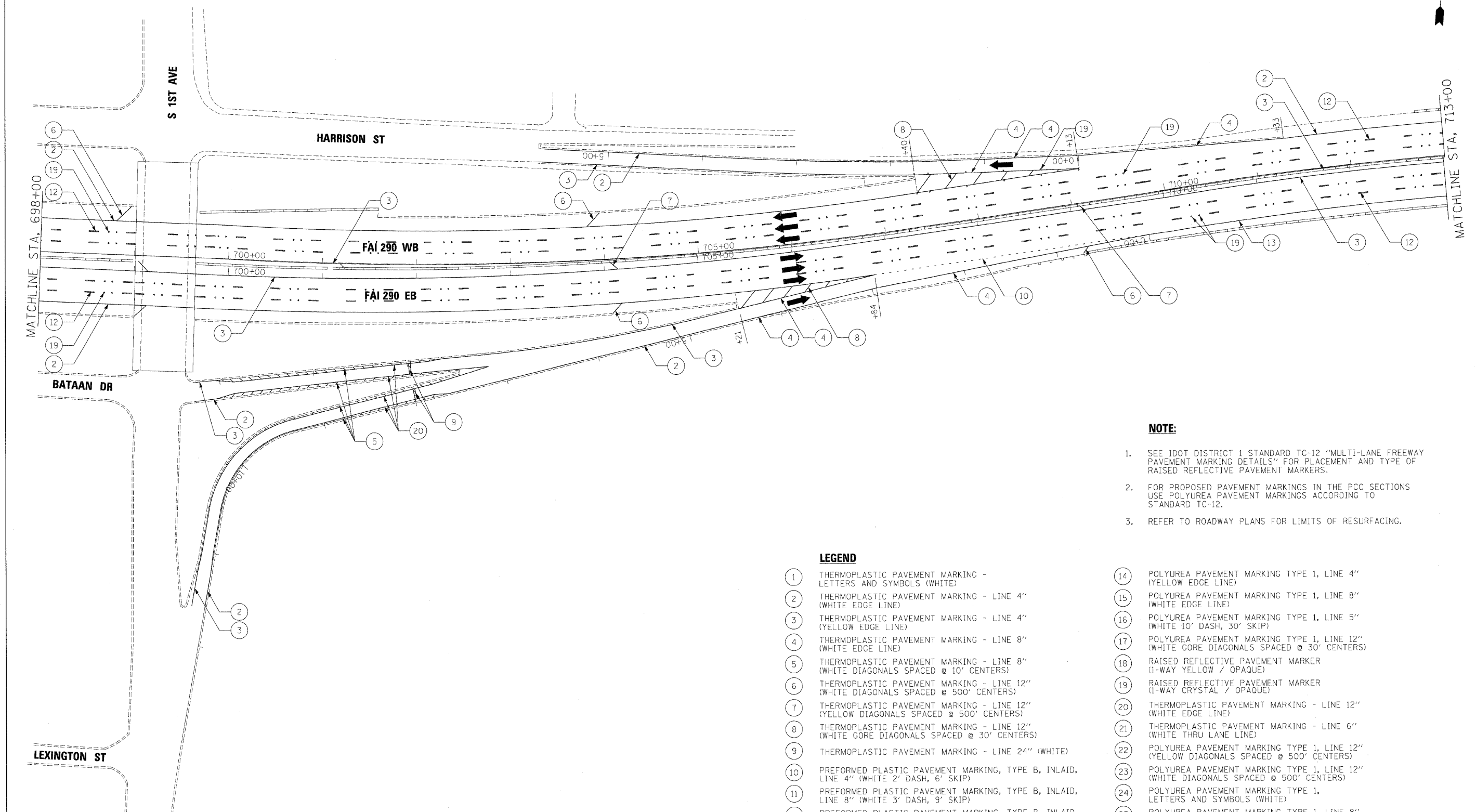
**LEGEND**

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| ① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)                           | ⑭ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (YELLOW EDGE LINE)                           |
| ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE EDGE LINE)                             | ⑮ POLYUREA PAVEMENT MARKING TYPE 1, LINE 8" (WHITE EDGE LINE)                            |
| ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW EDGE LINE)                            | ⑯ POLYUREA PAVEMENT MARKING TYPE 1, LINE 5" (WHITE 10' DASH, 30' SKIP)                   |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE EDGE LINE)                             | ⑰ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (WHITE GORE DIAGONALS SPACED @ 30' CENTERS) |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE DIAGONALS SPACED @ 10' CENTERS)        | ⑱ RAISED REFLECTIVE PAVEMENT MARKER (1-WAY YELLOW / OPAQUE)                              |
| ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS SPACED @ 500' CENTERS)      | ⑲ RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL / OPAQUE)                             |
| ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS)     | ⑳ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE EDGE LINE)                            |
| ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE GORE DIAGONALS SPACED @ 30' CENTERS)  | ㉑ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE THRU LANE LINE)                        |
| ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE)                                      | ㉒ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS)    |
| ⑩ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID, LINE 4" (WHITE 2' DASH, 6' SKIP)   | ㉓ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (WHITE DIAGONALS SPACED @ 500' CENTERS)     |
| ⑪ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID, LINE 8" (WHITE 3' DASH, 9' SKIP)   | ㉔ POLYUREA PAVEMENT MARKING TYPE 1, LETTERS AND SYMBOLS (WHITE)                          |
| ⑫ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID, LINE 5" (WHITE 10' DASH, 30' SKIP) | ㉕ POLYUREA PAVEMENT MARKING TYPE 1, LINE 8" (WHITE 3' DASH, 9' SKIP)                     |
| ⑬ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (WHITE EDGE LINE)                            | ㉖ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (WHITE 2' DASH, 6' SKIP)                     |

**NOTE:**

- SEE IDOT DISTRICT 1 STANDARD TC-12 "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT AND TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS.
- FOR PROPOSED PAVEMENT MARKINGS IN THE PCC SECTIONS USE POLYUREA PAVEMENT MARKINGS ACCORDING TO STANDARD TC-12.
- REFER TO ROADWAY PLANS FOR LIMITS OF RESURFACING.

FILE NAME = ...\\pdpin\ABC\02_290_pvmtnkq_28.dgn	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING PLANS</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
USER NAME = tdenk	DRAWN - TMB	REVISED -			<b>I-290 MAINLINE STA 683+00 TO STA 698+00</b>			290	(3131, ETC., 3435)RS-6	COOK	215	106	
PLOT DATE = 1/25/2010	CHECKED - JMM	REVISED -			SCALE: 1"=50'	SHEET NO. 2 OF 14 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
	DATE - 1/25/10	REVISED -											



**NOTE:**

1. SEE IDOT DISTRICT 1 STANDARD TC-12 "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT AND TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS.
2. FOR PROPOSED PAVEMENT MARKINGS IN THE PCC SECTIONS USE POLYUREA PAVEMENT MARKINGS ACCORDING TO STANDARD TC-12.
3. REFER TO ROADWAY PLANS FOR LIMITS OF RESURFACING.

**LEGEND**

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| <ul style="list-style-type: none"> <li>1 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)</li> <li>2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE EDGE LINE)</li> <li>3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW EDGE LINE)</li> <li>4 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE EDGE LINE)</li> <li>5 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE DIAGONALS SPACED @ 10' CENTERS)</li> <li>6 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS SPACED @ 500' CENTERS)</li> <li>7 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS)</li> <li>8 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE GORE DIAGONALS SPACED @ 30' CENTERS)</li> <li>9 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE)</li> <li>10 PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID, LINE 4" (WHITE 2' DASH, 6' SKIP)</li> <li>11 PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID, LINE 8" (WHITE 3' DASH, 9' SKIP)</li> <li>12 PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID, LINE 5" (WHITE 10' DASH, 30' SKIP)</li> <li>13 POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (WHITE EDGE LINE)</li> </ul> | <ul style="list-style-type: none"> <li>14 POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (YELLOW EDGE LINE)</li> <li>15 POLYUREA PAVEMENT MARKING TYPE 1, LINE 8" (WHITE EDGE LINE)</li> <li>16 POLYUREA PAVEMENT MARKING TYPE 1, LINE 5" (WHITE 10' DASH, 30' SKIP)</li> <li>17 POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (WHITE GORE DIAGONALS SPACED @ 30' CENTERS)</li> <li>18 RAISED REFLECTIVE PAVEMENT MARKER (1-WAY YELLOW / OPAQUE)</li> <li>19 RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL / OPAQUE)</li> <li>20 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE EDGE LINE)</li> <li>21 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE THRU LANE LINE)</li> <li>22 POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS)</li> <li>23 POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (WHITE DIAGONALS SPACED @ 500' CENTERS)</li> <li>24 POLYUREA PAVEMENT MARKING TYPE 1, LETTERS AND SYMBOLS (WHITE)</li> <li>25 POLYUREA PAVEMENT MARKING TYPE 1, LINE 8" (WHITE 3' DASH, 9' SKIP)</li> <li>26 POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (WHITE 2' DASH, 6' SKIP)</li> </ul> |
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PLT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

**benesch**

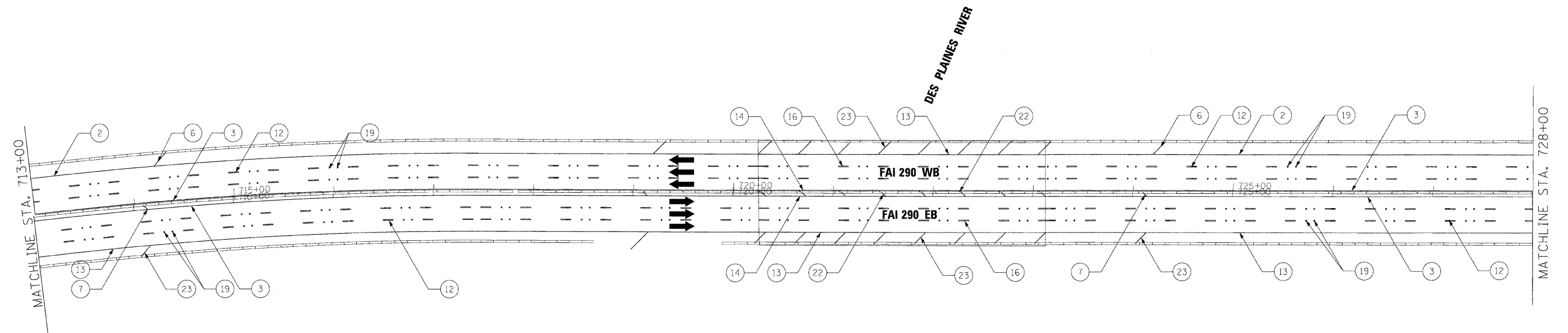
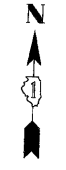
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLANS**  
**I-290 MAINLINE STA 698+00 TO STA 713+00**

SCALE: 1"=50' SHEET NO. 3 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(313), ETC., 3435/RS-6	COOK	215	107
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60K10	

- NOTE:**
- SEE IDOT DISTRICT 1 STANDARD TC-12 "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT AND TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS.
  - FOR PROPOSED PAVEMENT MARKINGS IN THE PCC SECTIONS USE POLYUREA PAVEMENT MARKINGS ACCORDING TO STANDARD TC-12.
  - REFER TO ROADWAY PLANS FOR LIMITS OF RESURFACING.



**LEGEND**

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| <ul style="list-style-type: none"> <li>① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)</li> <li>② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE EDGE LINE)</li> <li>③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW EDGE LINE)</li> <li>④ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE EDGE LINE)</li> <li>⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE DIAGONALS SPACED @ 10' CENTERS)</li> <li>⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS SPACED @ 500' CENTERS)</li> <li>⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS)</li> <li>⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE GORE DIAGONALS SPACED @ 30' CENTERS)</li> <li>⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE)</li> <li>⑩ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID, LINE 4" (WHITE 2' DASH, 6' SKIP)</li> <li>⑪ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID, LINE 8" (WHITE 3' DASH, 9' SKIP)</li> <li>⑫ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID, LINE 5" (WHITE 10' DASH, 30' SKIP)</li> <li>⑬ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (WHITE EDGE LINE)</li> </ul> | <ul style="list-style-type: none"> <li>⑭ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (YELLOW EDGE LINE)</li> <li>⑮ POLYUREA PAVEMENT MARKING TYPE 1, LINE 8" (WHITE EDGE LINE)</li> <li>⑯ POLYUREA PAVEMENT MARKING TYPE 1, LINE 5" (WHITE 10' DASH, 30' SKIP)</li> <li>⑰ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (WHITE GORE DIAGONALS SPACED @ 30' CENTERS)</li> <li>⑱ RAISED REFLECTIVE PAVEMENT MARKER (1-WAY YELLOW / OPAQUE)</li> <li>⑲ RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL / OPAQUE)</li> <li>⑳ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE EDGE LINE)</li> <li>㉑ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE THRU LANE LINE)</li> <li>㉒ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS)</li> <li>㉓ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (WHITE DIAGONALS SPACED @ 500' CENTERS)</li> <li>㉔ POLYUREA PAVEMENT MARKING TYPE 1, LETTERS AND SYMBOLS (WHITE)</li> <li>㉕ POLYUREA PAVEMENT MARKING TYPE 1, LINE 8" (WHITE 3' DASH, 9' SKIP)</li> <li>㉖ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (WHITE 2' DASH, 6' SKIP)</li> </ul> |
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**benesch**

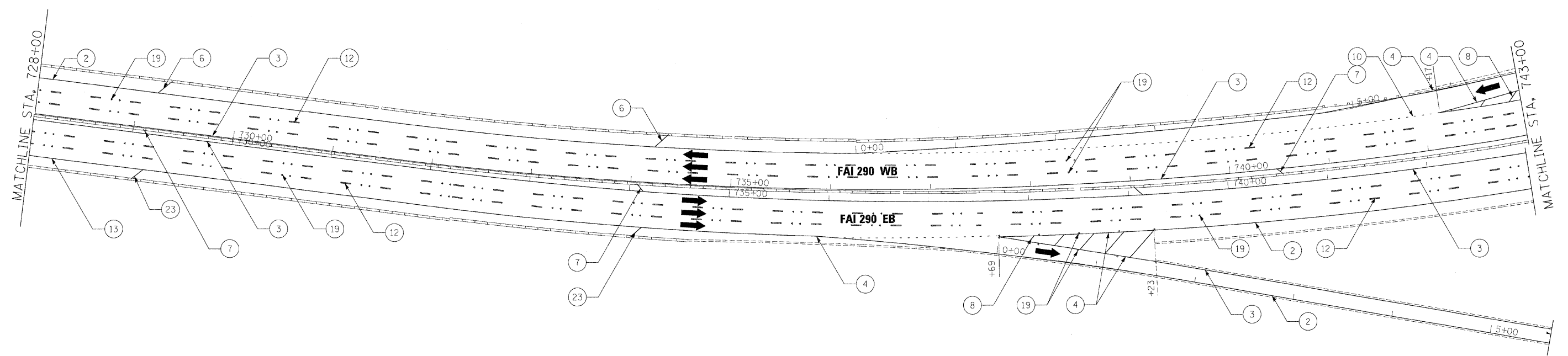
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLANS  
I-290 MAINLINE STA 713+00 TO STA 728+00**

SCALE: 1"=50' SHEET NO. 4 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(313), ETC., 3435RS-6	COOK	215	108
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60K10	





**LEGEND**

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**NOTE:**

1. SEE IDOT DISTRICT 1 STANDARD TC-12 "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT AND TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS.
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3. REFER TO ROADWAY PLANS FOR LIMITS OF RESURFACING.

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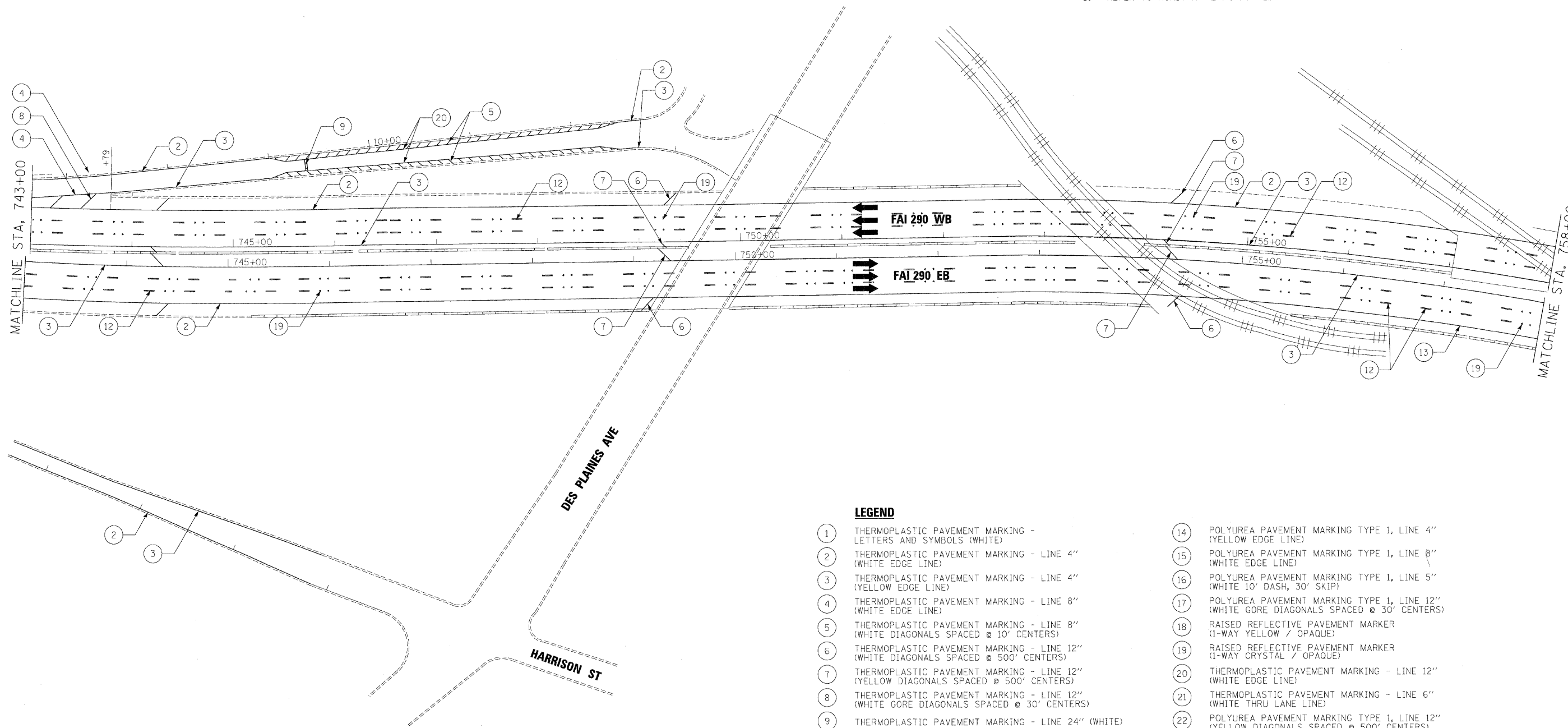
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PAVEMENT MARKING PLANS</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>I-290 MAINLINE STA 728+00 TO STA 743+00</b>		290	(3131, ETC., 3435)RS-6	COOK	215	109
SCALE: 1"=50'	SHEET NO. 5 OF 14 SHEETS	STA.	TO STA.	CONTRACT NO. 60K10		
		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

**NOTE:**

1. SEE IDOT DISTRICT 1 STANDARD TC-12 "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT AND TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS.
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**LEGEND**

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|--|---|
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PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

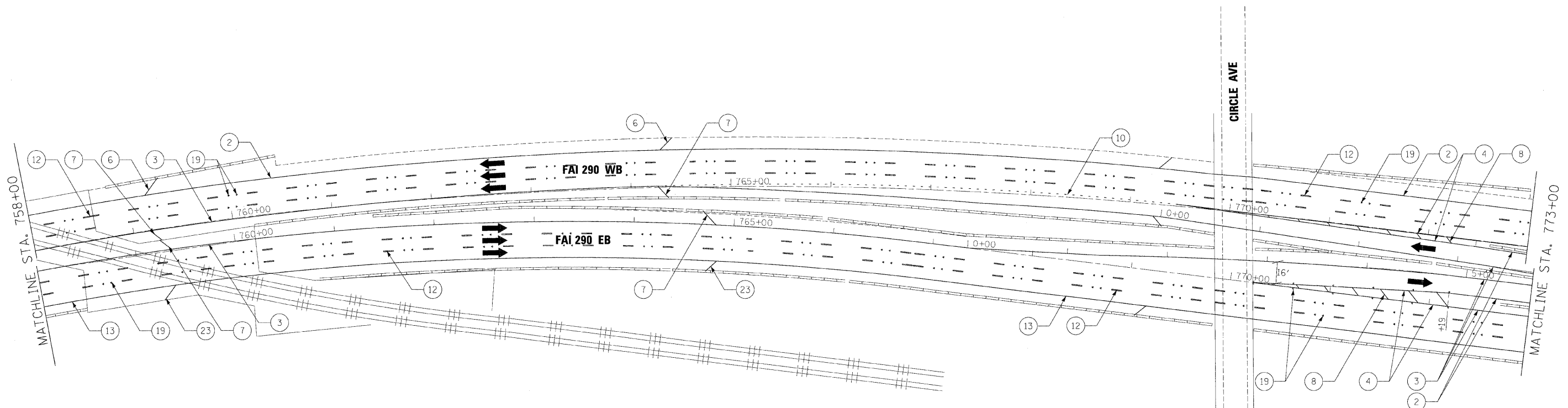
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLANS  
I-290 MAINLINE STA 743+00 TO STA 758+00**

SCALE: 1"=50' SHEET NO. 6 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(313), ETC., 3435)RS-6	COOK	215	110
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60K10	



**LEGEND**

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**NOTE:**

1. SEE IDOT DISTRICT 1 STANDARD TC-12 "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT AND TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS.
2. FOR PROPOSED PAVEMENT MARKINGS IN THE PCC SECTIONS USE POLYUREA PAVEMENT MARKINGS ACCORDING TO STANDARD TC-12.
3. REFER TO ROADWAY PLANS FOR LIMITS OF RESURFACING.

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...NorpInABC_C2.298_pvmtnkg-25.dgn	DRAWN - TMB	REVISED -
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**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

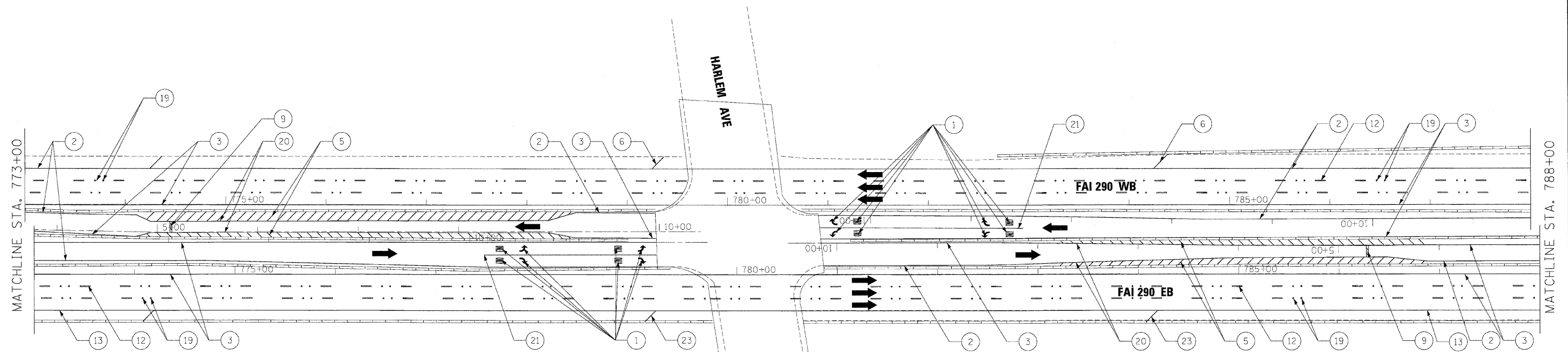
**PAVEMENT MARKING PLANS**  
**I-290 MAINLINE STA 758+00 TO STA 773+00**

SCALE: 1"=50'    SHEET NO. 7 OF 14 SHEETS    STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	111
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60K10	

**NOTE:**

1. SEE IDOT DISTRICT 1 STANDARD TC-12 "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT AND TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS.
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**LEGEND**

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**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

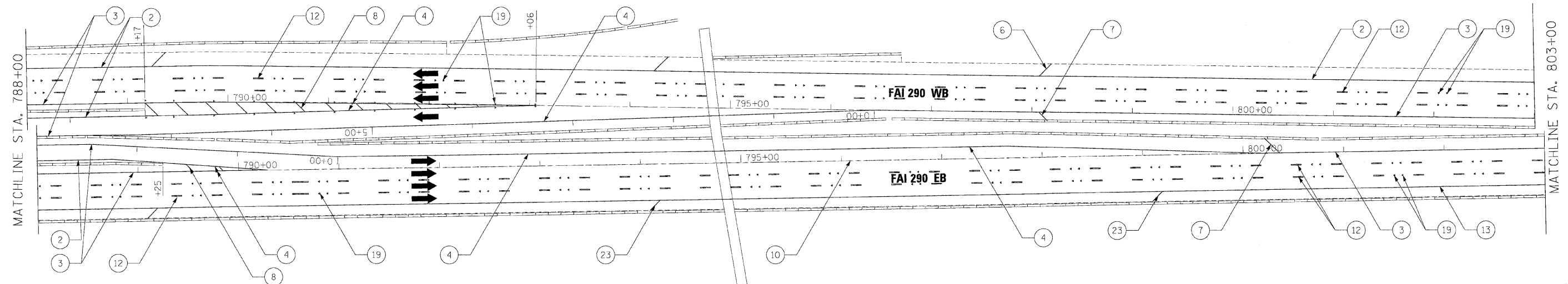
**PAVEMENT MARKING PLANS  
I-290 MAINLINE STA 773+00 TO STA 788+00**

SCALE: 1"=50' SHEET NO. 8 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	112
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60K10	

**NOTE:**

1. SEE IDOT DISTRICT 1 STANDARD TC-12 "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT AND TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS.
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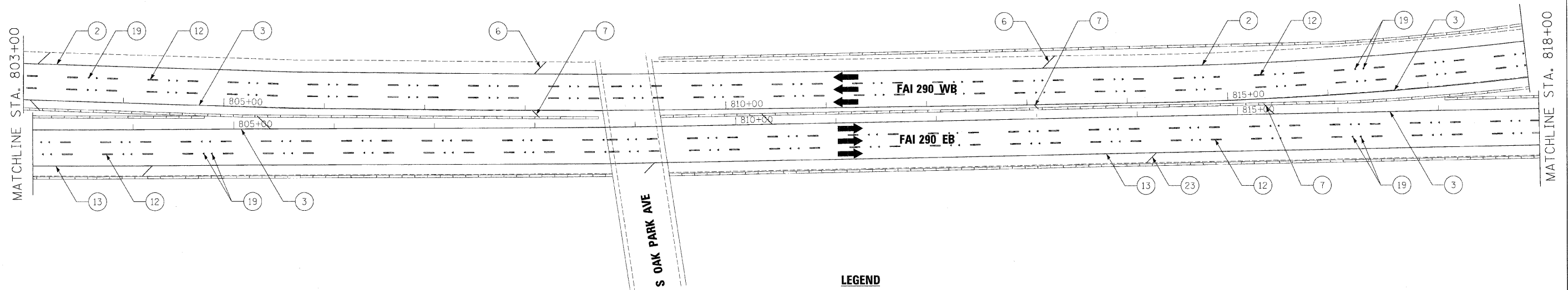
**LEGEND**

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FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING PLANS</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
...Narplin_ABC.C2.290_pvmtrng_27.dgn	DRAWN - TMB	REVISED -			<b>I-290 MAINLINE STA 788+00 TO STA 803+00</b>			290	(3131, ETC., 3435)RS-6	COOK	215	113	
USER NAME = tblank	CHECKED - JMM	REVISED -			SCALE: 1"=50'	SHEET NO. 9 OF 14 SHEETS	STA.	FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -					TO STA.	CONTRACT NO. 60K10					

**NOTE:**

1. SEE IDOT DISTRICT 1 STANDARD TC-12 "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT AND TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS.
2. FOR PROPOSED PAVEMENT MARKINGS IN THE PCC SECTIONS USE POLYUREA PAVEMENT MARKINGS ACCORDING TO STANDARD TC-12.
3. REFER TO ROADWAY PLANS FOR LIMITS OF RESURFACING.



**LEGEND**

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**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

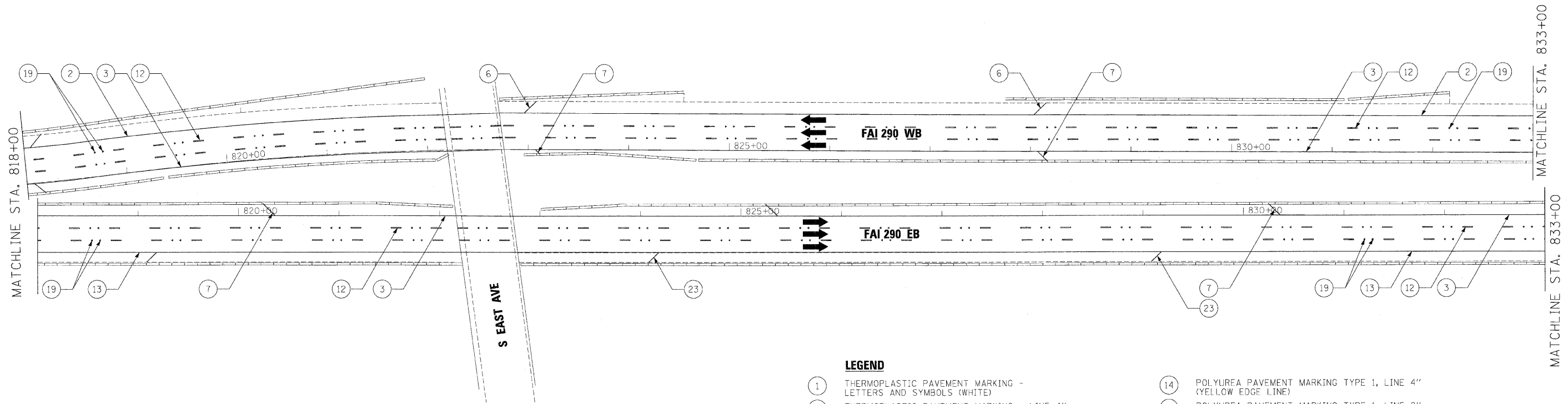
**PAVEMENT MARKING PLANS  
I-290 MAINLINE STA 803+00 TO STA 818+00**

SCALE: 1"=50' SHEET NO. 10 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	114
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 60K10		

**NOTE:**

1. SEE IDOT DISTRICT 1 STANDARD TC-12 "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT AND TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS.
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**LEGEND**

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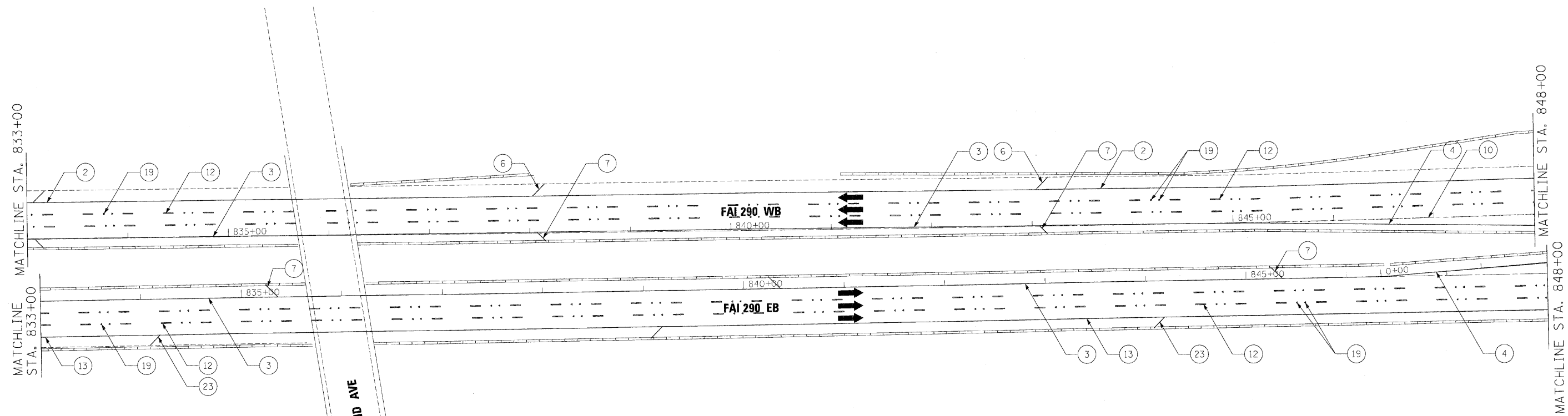
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**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLANS			
I-290 MAINLINE STA 818+00 TO STA 833+00			
SCALE: 1"=50'	SHEET NO. 11 OF 14 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	115
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 60K10		



**NOTE:**

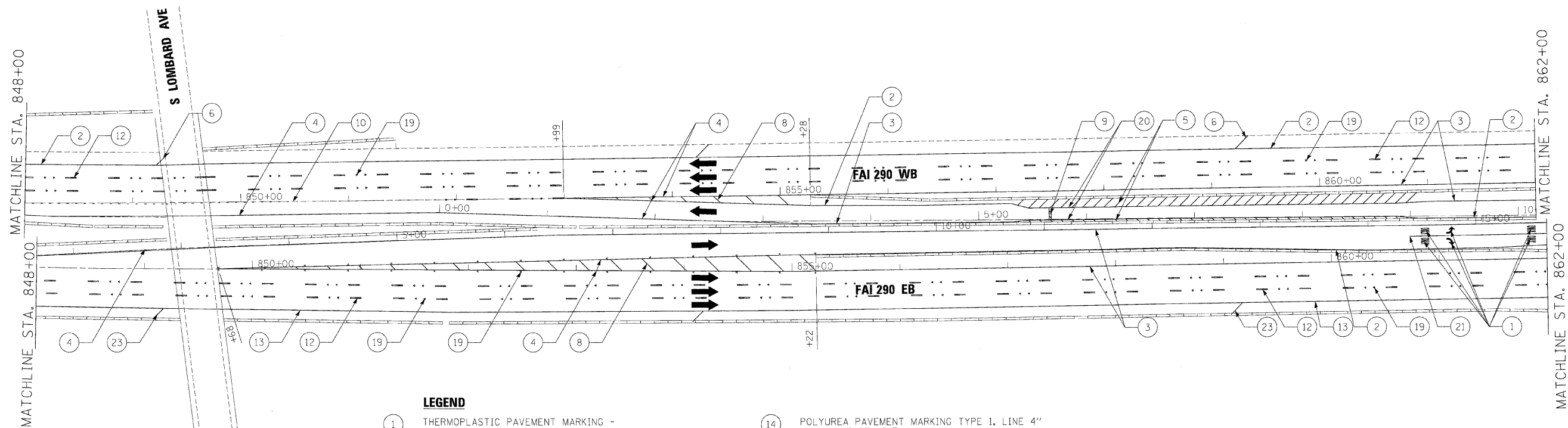
1. SEE IDOT DISTRICT 1 STANDARD TC-12 "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT AND TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS.
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**LEGEND**

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| <ul style="list-style-type: none"> <li>① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)</li> <li>② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE EDGE LINE)</li> <li>③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW EDGE LINE)</li> <li>④ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE EDGE LINE)</li> <li>⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE DIAGONALS SPACED @ 10' CENTERS)</li> <li>⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS)</li> <li>⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE GORE DIAGONALS SPACED @ 30' CENTERS)</li> <li>⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE GORE DIAGONALS SPACED @ 30' CENTERS)</li> <li>⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE)</li> <li>⑩ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID, LINE 4" (WHITE 2' DASH, 6' SKIP)</li> <li>⑪ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID, LINE 8" (WHITE 3' DASH, 9' SKIP)</li> <li>⑫ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID, LINE 5" (WHITE 10' DASH, 30' SKIP)</li> <li>⑬ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (WHITE EDGE LINE)</li> </ul> | <ul style="list-style-type: none"> <li>⑭ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (YELLOW EDGE LINE)</li> <li>⑮ POLYUREA PAVEMENT MARKING TYPE 1, LINE 8" (WHITE EDGE LINE)</li> <li>⑯ POLYUREA PAVEMENT MARKING TYPE 1, LINE 5" (WHITE 10' DASH, 30' SKIP)</li> <li>⑰ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (WHITE GORE DIAGONALS SPACED @ 30' CENTERS)</li> <li>⑱ RAISED REFLECTIVE PAVEMENT MARKER (1-WAY YELLOW / OPAQUE)</li> <li>⑲ RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL / OPAQUE)</li> <li>⑳ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE EDGE LINE)</li> <li>㉑ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE THRU LANE LINE)</li> <li>㉒ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS)</li> <li>㉓ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (WHITE DIAGONALS SPACED @ 500' CENTERS)</li> <li>㉔ POLYUREA PAVEMENT MARKING TYPE 1, LETTERS AND SYMBOLS (WHITE)</li> <li>㉕ POLYUREA PAVEMENT MARKING TYPE 1, LINE 8" (WHITE 3' DASH, 9' SKIP)</li> <li>㉖ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (WHITE 2' DASH, 6' SKIP)</li> </ul> |
|--|--|

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING PLANS I-290 MAINLINE STA 833+00 TO STA 848+00</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
...prpln_abc_c2_290_pvmtekg_30.dgn	DRAWN - TMB	REVISED -				290	(3131, ETC., 3435)RS-6	COOK	215	116	
USER NAME = sblank	CHECKED - JMM	REVISED -				CONTRACT NO. 60K10					
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -				SCALE: 1"=50'		SHEET NO. 12 OF 14 SHEETS		STA. TO STA.	





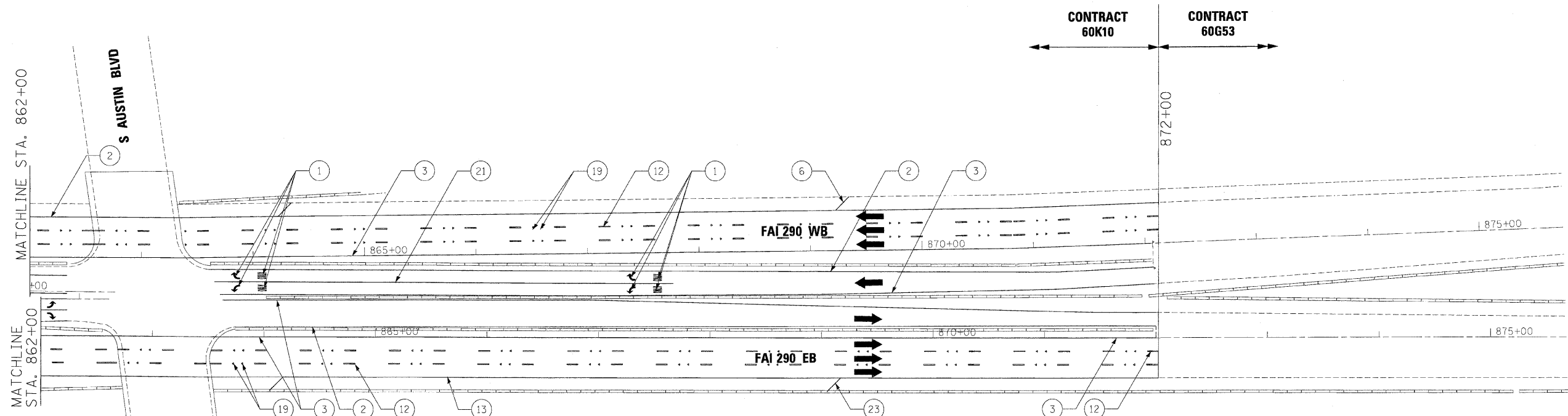
**LEGEND**

- ① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE EDGE LINE)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW EDGE LINE)
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE EDGE LINE)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE DIAGONALS SPACED @ 10' CENTERS)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS SPACED @ 500' CENTERS)
- ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS)
- ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE GORE DIAGONALS SPACED @ 30' CENTERS)
- ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE)
- ⑩ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID, LINE 4" (WHITE 2' DASH, 6' SKIP)
- ⑪ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID, LINE 8" (WHITE 3' DASH, 9' SKIP)
- ⑫ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID, LINE 5" (WHITE 10' DASH, 30' SKIP)
- ⑬ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (WHITE EDGE LINE)
- ⑭ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (YELLOW EDGE LINE)
- ⑮ POLYUREA PAVEMENT MARKING TYPE 1, LINE 8" (WHITE EDGE LINE)
- ⑯ POLYUREA PAVEMENT MARKING TYPE 1, LINE 5" (WHITE 10' DASH, 30' SKIP)
- ⑰ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (WHITE GORE DIAGONALS SPACED @ 30' CENTERS)
- ⑱ RAISED REFLECTIVE PAVEMENT MARKER (1-WAY YELLOW / OPAQUE)
- ⑲ RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL / OPAQUE)
- ⑳ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE EDGE LINE)
- ㉑ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE THRU LANE LINE)
- ㉒ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS)
- ㉓ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (WHITE DIAGONALS SPACED @ 500' CENTERS)
- ㉔ POLYUREA PAVEMENT MARKING TYPE 1, LETTERS AND SYMBOLS (WHITE)
- ㉕ POLYUREA PAVEMENT MARKING TYPE 1, LINE 8" (WHITE 3' DASH, 9' SKIP)
- ㉖ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (WHITE 2' DASH, 6' SKIP)

**NOTE:**

1. SEE IDOT DISTRICT 1 STANDARD TC-12 "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT AND TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS.
2. FOR PROPOSED PAVEMENT MARKINGS IN THE PCC SECTIONS USE POLYUREA PAVEMENT MARKINGS ACCORDING TO STANDARD TC-12.
3. REFER TO ROADWAY PLANS FOR LIMITS OF RESURFACING.

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING PLANS</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
...prpln_ABC.C2.290.pvmtkg_31.dgn	DRAWN - TMB	REVISED -			<b>I-290 MAINLINE STA 848+00 TO STA 862+00</b>			290	(3131, ETC., 3435)RS-6	COOK	215	117	
USER NAME = tblank	CHECKED - JMM	REVISED -			SCALE: 1"=50'	SHEET NO. 13 OF 14 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -											



**LEGEND**

- ① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE EDGE LINE)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW EDGE LINE)
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE EDGE LINE)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE DIAGONALS SPACED @ 10' CENTERS)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS SPACED @ 500' CENTERS)
- ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS)
- ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE GORE DIAGONALS SPACED @ 30' CENTERS)
- ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE)
- ⑩ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID, LINE 4" (WHITE 2' DASH, 6' SKIP)
- ⑪ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID, LINE 8" (WHITE 3' DASH, 9' SKIP)
- ⑫ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID, LINE 5" (WHITE 10' DASH, 30' SKIP)
- ⑬ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (WHITE EDGE LINE)
- ⑭ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (YELLOW EDGE LINE)
- ⑮ POLYUREA PAVEMENT MARKING TYPE 1, LINE 8" (WHITE EDGE LINE)
- ⑯ POLYUREA PAVEMENT MARKING TYPE 1, LINE 5" (WHITE 10' DASH, 30' SKIP)
- ⑰ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (WHITE GORE DIAGONALS SPACED @ 30' CENTERS)
- ⑱ RAISED REFLECTIVE PAVEMENT MARKER (1-WAY YELLOW / OPAQUE)
- ⑲ RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL / OPAQUE)
- ⑳ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE EDGE LINE)
- ㉑ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE THRU LANE LINE)
- ㉒ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS)
- ㉓ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (WHITE DIAGONALS SPACED @ 500' CENTERS)
- ㉔ POLYUREA PAVEMENT MARKING TYPE 1, LETTERS AND SYMBOLS (WHITE)
- ㉕ POLYUREA PAVEMENT MARKING TYPE 1, LINE 8" (WHITE 3' DASH, 9' SKIP)
- ㉖ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (WHITE 2' DASH, 6' SKIP)

**NOTE:**

1. SEE IDOT DISTRICT 1 STANDARD TC-12 "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT AND TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS.
2. FOR PROPOSED PAVEMENT MARKINGS IN THE PCC SECTIONS USE POLYUREA PAVEMENT MARKINGS ACCORDING TO STANDARD TC-12.
3. REFER TO ROADWAY PLANS FOR LIMITS OF RESURFACING.

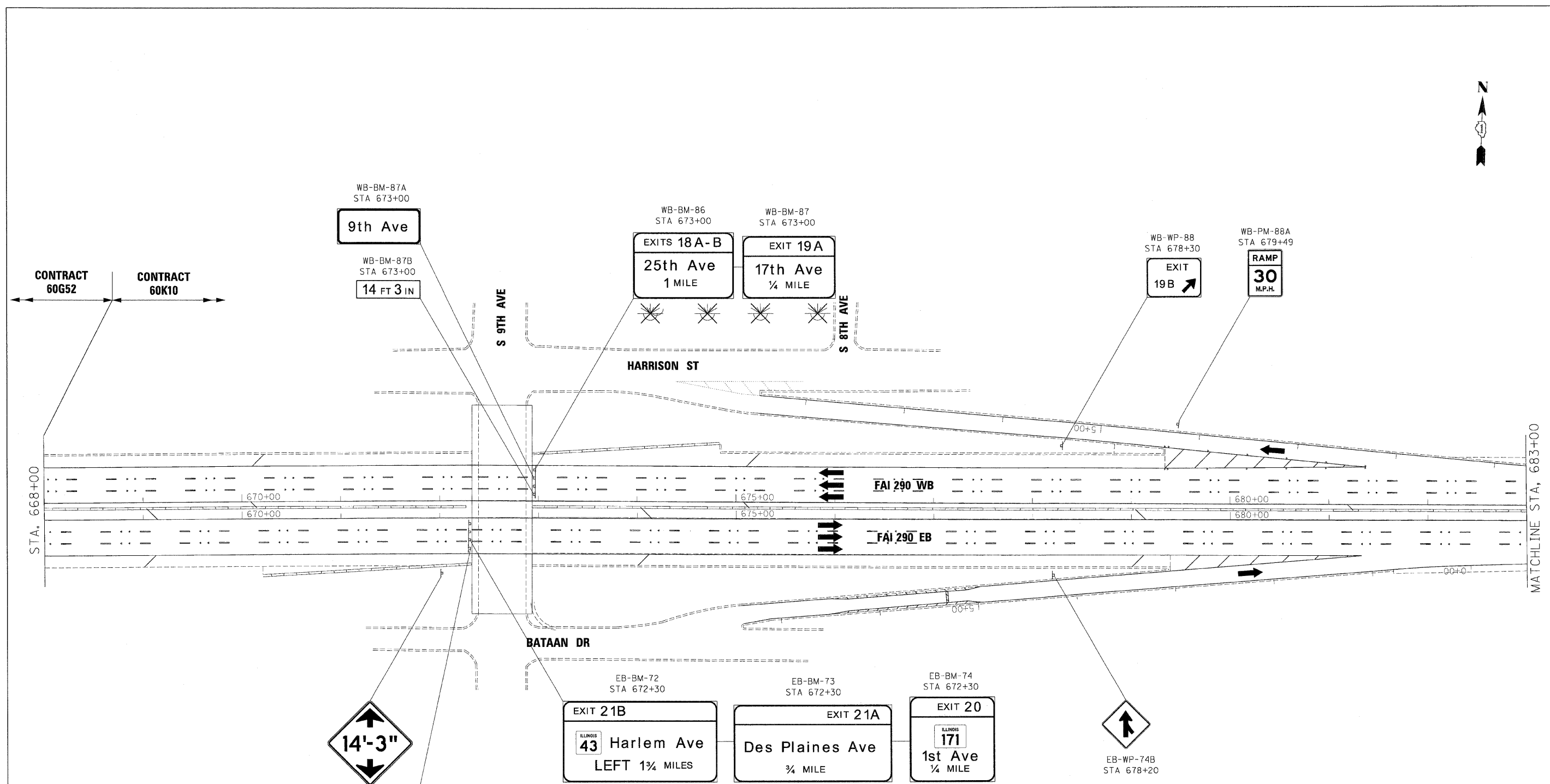
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PLT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLANS			
I-290 MAINLINE STA 862+00 TO P.O.E.			
SCALE: 1"=50'	SHEET NO. 14 OF 14 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	118
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 60K10		



**EXAMPLE**

DIRECTION OF TRAFFIC	EB-TR-03	SIGN PANEL NUMBER
MOUNTING TYPE		

NB - NORTHBOUND FAI 355  
 SB - SOUTHBOUND FAI 355  
 EB - EASTBOUND FAI 290  
 WB - WESTBOUND FAI 290  
 LS - LAKE STREET  
 AT - ARMY TRAIL RD  
 83 - IL 83 (KINGERY HWY)  
 64 - IL 64 (NORTH AVE)

[ ] REMOVE AND REPLACE SIGN PANEL  
 [X] EXISTING LUMINAIRE TO BE REMOVED

TR - TRUSS  
 CL - CANTILEVER  
 BM - BRIDGE MOUNTED  
 WP - WOOD POST  
 BS - BREAKAWAY STEEL  
 LP - LIGHT POLE  
 GM - GROUND MOUNTED

FILE NAME =	DESIGNED - AJP	REVISED -
...prpln,ABC,60J22,290.pvmtrkg,19.dgn	DRAWN - TMB	REVISED -
USER NAME = ublenk	CHECKED - JMM	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

benesch

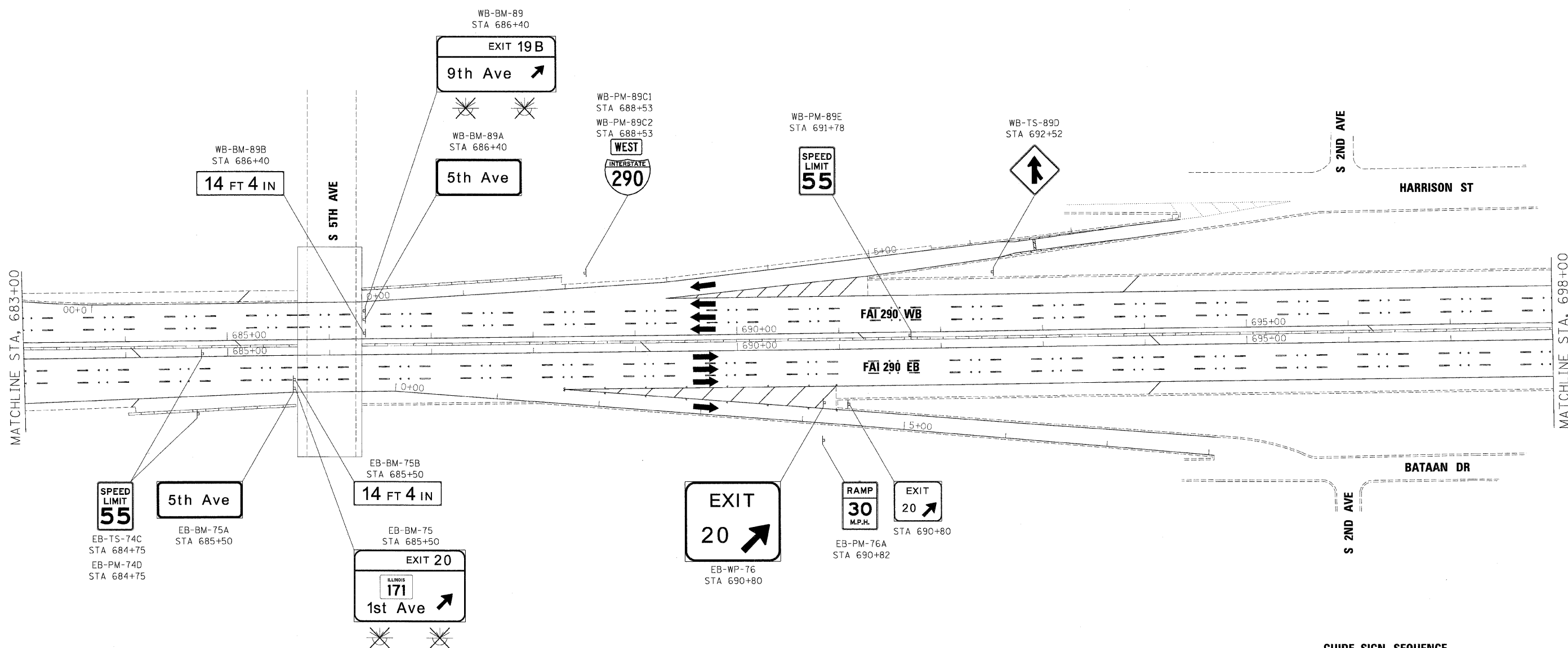
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGNING PLANS  
I-290 MAINLINE POB TO STA 683+00

SCALE: 1"=50' SHEET NO. 1 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	119
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 60K10



**EXAMPLE**

EB-TR-03

DIRECTION OF TRAFFIC	SIGN PANEL NUMBER	MOUNTING TYPE
NB - NORTHBOUND FAL 355		TR - TRUSS
SB - SOUTHBOUND FAL 355		CL - CANTILEVER
EB - EASTBOUND FAL 290		BM - BRIDGE MOUNTED
WB - WESTBOUND FAL 290		WP - WOOD POST
LS - LAKE STREET		BS - BREAKAWAY STEEL
AT - ARMY TRAIL RD		LP - LIGHT POLE
83 - IL 83 (KINGERY HWY)		GM - GROUND MOUNTED
64 - IL 64 (NORTH AVE)		
REMOVE AND REPLACE SIGN PANEL		
EXISTING LUMINAIRE TO BE REMOVED		

FILE NAME =	DESIGNED - AJP	REVISED -
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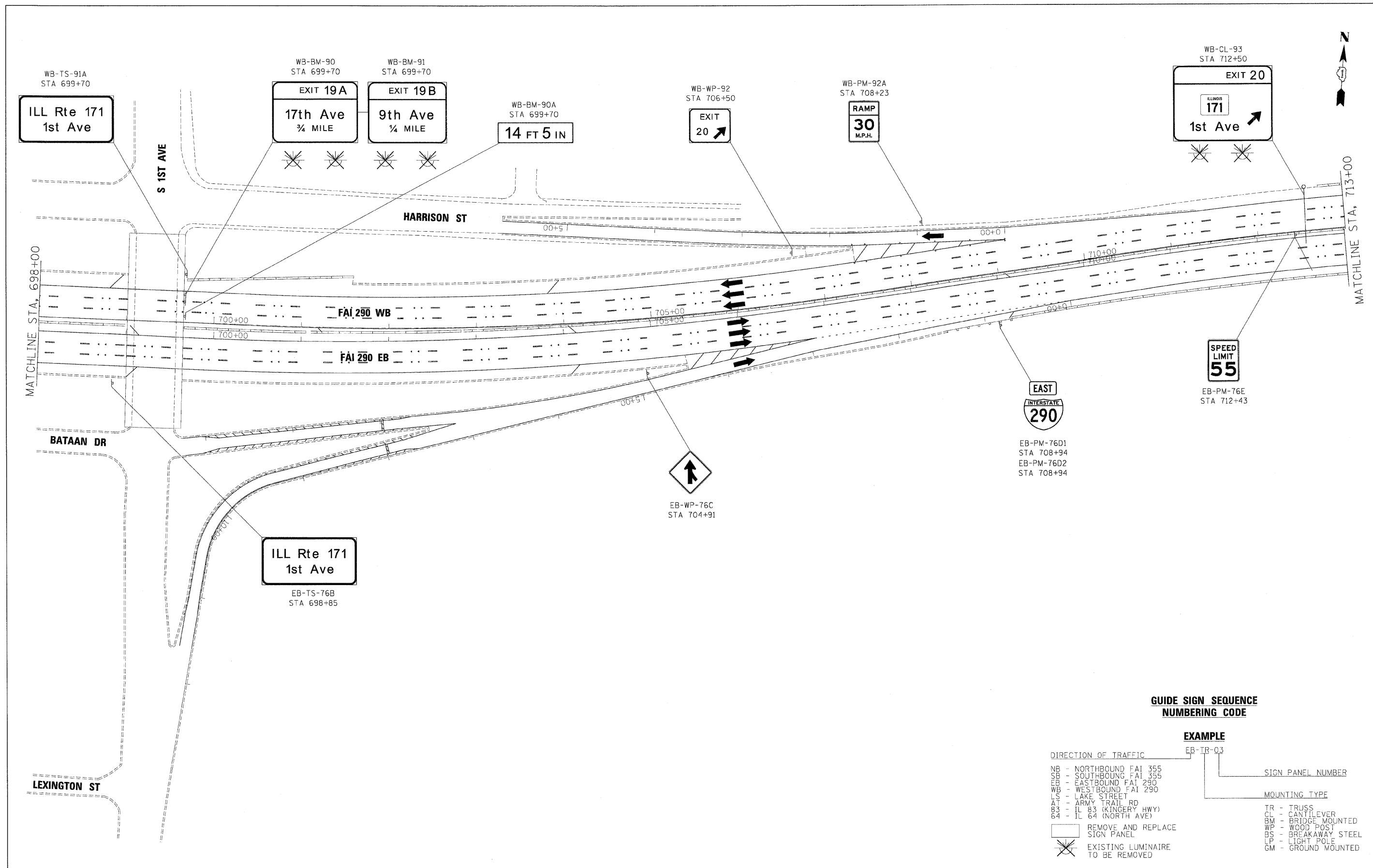
benesch

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLANS**  
**I-290 MAINLINE STA 683+00 TO STA 698+00**

SCALE: 1"=50' SHEET NO. 2 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	13131, ETC., 3435RS-6	COOK	215	120
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**GUIDE SIGN SEQUENCE NUMBERING CODE**

**EXAMPLE**

EB-TR-03

DIRECTION OF TRAFFIC: EB - EASTBOUND FAI 290

SIGN PANEL NUMBER: 03

MOUNTING TYPE: TR - TRUSS

NB - NORTHBOUND FAI 355  
 SB - SOUTHBOUND FAI 355  
 EB - EASTBOUND FAI 290  
 WB - WESTBOUND FAI 290  
 LS - LAKE STREET  
 AT - ARMY TRAIL RD  
 83 - IL 83 (KINGERY HWY)  
 64 - IL 64 (NORTH AVE)

[Symbol] REMOVE AND REPLACE SIGN PANEL  
 [Symbol] EXISTING LUMINAIRE TO BE REMOVED

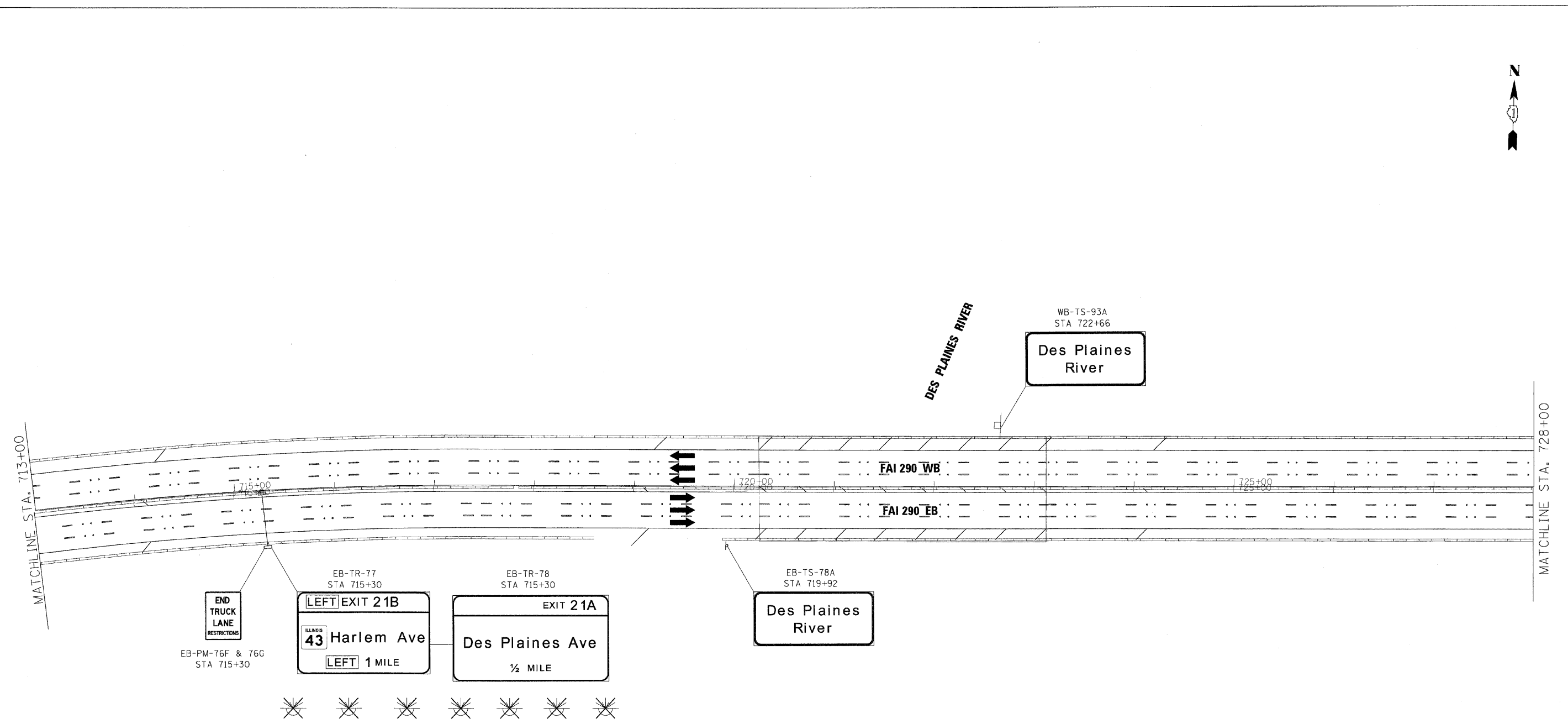
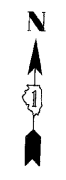
TR - TRUSS  
 CL - CANTILEVER  
 BM - BRIDGE MOUNTED  
 WP - WOOD POST  
 BS - BREAKAWAY STEEL  
 LP - LIGHT POLE  
 GM - GROUND MOUNTED

FILE NAME =	DESIGNED - AJP	REVISED -
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PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

**benesch**

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

<b>SIGNING PLANS</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>I-290 MAINLINE STA 698+00 TO STA 713+00</b>		290	(3131, ETC., 3435)RS-6	COOK	215	121
SCALE: 1"=50'	SHEET NO. 3 OF 14 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	
				CONTRACT NO. 60K10		



**EXAMPLE**

DIRECTION OF TRAFFIC: EB-TR-03

SIGN PANEL NUMBER

MOUNTING TYPE

NB - NORTHBOUND FAI 355  
 SB - SOUTHBOUND FAI 355  
 EB - EASTBOUND FAI 290  
 WB - WESTBOUND FAI 290  
 LS - LAKE STREET  
 AT - ARMY TRAIL RD  
 83 - IL 83 (KINGERY HWY)  
 64 - IL 64 (NORTH AVE)

[Empty Box] REMOVE AND REPLACE SIGN PANEL  
 [Asterisk] EXISTING LUMINAIRE TO BE REMOVED

TR - TRUSS  
 CL - CANTILEVER  
 BM - BRIDGE MOUNTED  
 WP - WOOD POST  
 BS - BREAKAWAY STEEL  
 LP - LIGHT POLE  
 GM - GROUND MOUNTED

FILE NAME =	DESIGNED - AJP	REVISED -
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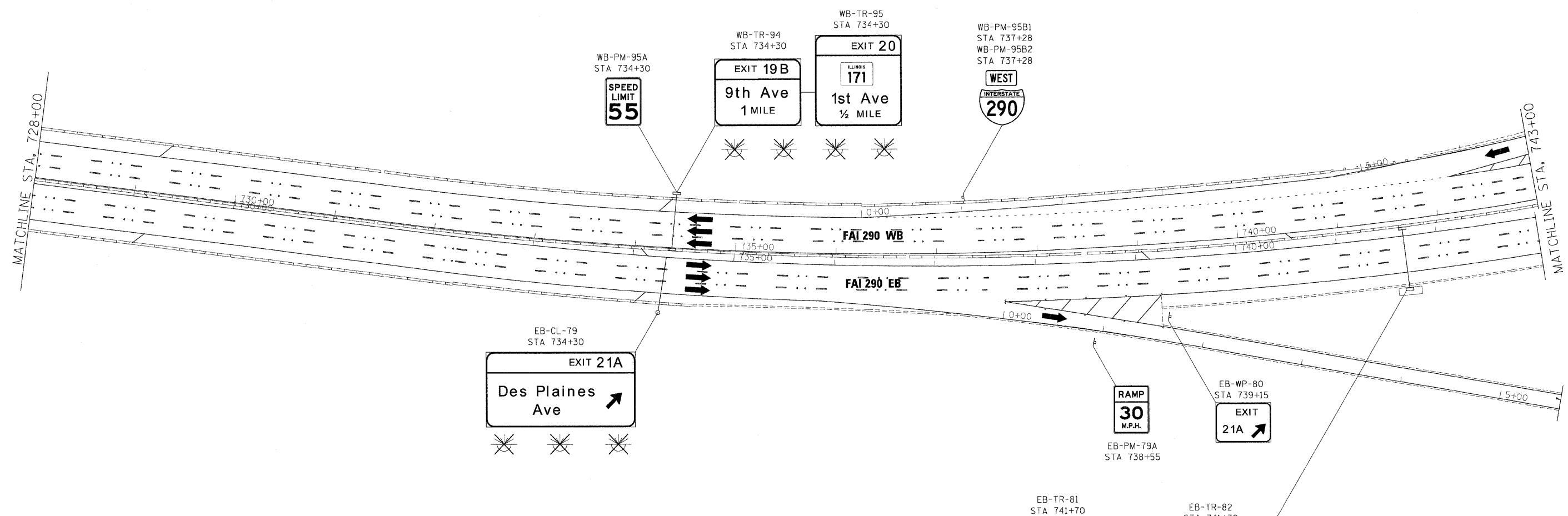
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLANS**  
**I-290 MAINLINE STA 713+00 TO STA 728+00**

SCALE: 1"=50' SHEET NO. 4 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	122
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60K10	



**GUIDE SIGN SEQUENCE  
NUMBERING CODE**

**EXAMPLE**

- |   |   |  |
|---|---|--|
| <p><b>DIRECTION OF TRAFFIC</b></p> <ul style="list-style-type: none"> <li>NB - NORTHBOUND FAI 355</li> <li>SB - SOUTHBOUND FAI 355</li> <li>EB - EASTBOUND FAI 290</li> <li>WB - WESTBOUND FAI 290</li> <li>LS - LAKE STREET</li> <li>AT - ARMY TRAIL RD</li> <li>83 - IL 83 (KINGERY HWY)</li> <li>64 - IL 64 (NORTH AVE)</li> </ul> | <p><b>SIGN PANEL NUMBER</b></p> <p>EB-TR-03</p> | <p><b>MOUNTING TYPE</b></p> <ul style="list-style-type: none"> <li>TR - TRUSS</li> <li>CL - CANTILEVER</li> <li>BM - BRIDGE MOUNTED</li> <li>WP - WOOD POST</li> <li>BS - BREAKAWAY STEEL</li> <li>LP - LIGHT POLE</li> <li>GM - GROUND MOUNTED</li> </ul> |
|---|---|--|

- REMOVE AND REPLACE SIGN PANEL
- EXISTING LUMINAIRE TO BE REMOVED

FILE NAME =	DESIGNED - AJP	REVISED -
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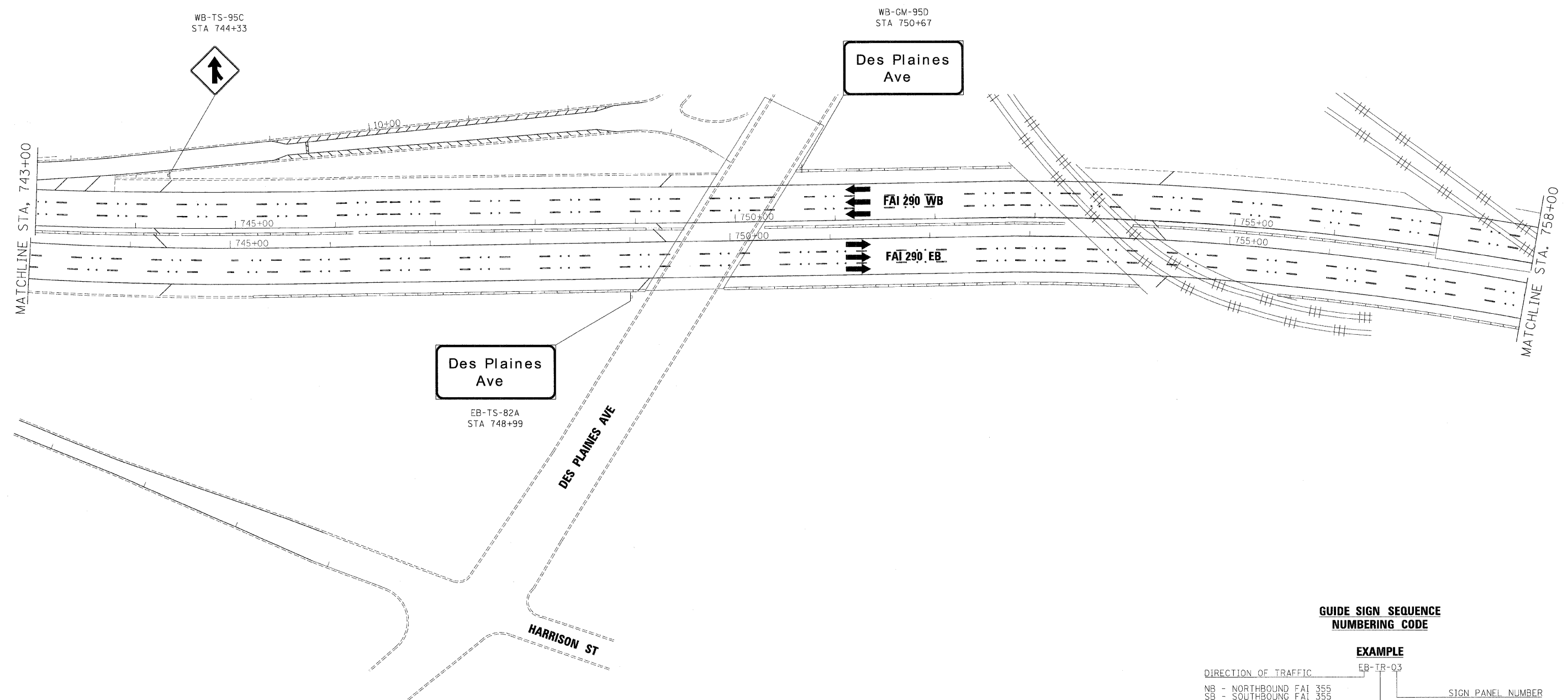
benesch

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGNING PLANS  
I-290 MAINLINE STA 728+00 TO STA 743+00

SCALE: 1"=50' SHEET NO. 5 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	123
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**EXAMPLE**

- DIRECTION OF TRAFFIC
- NB - NORTHBOUND FAI 355
  - SB - SOUTHBOUND FAI 355
  - EB - EASTBOUND FAI 290
  - WB - WESTBOUND FAI 290
  - LS - LAKE STREET
  - AT - ARMY TRAIL RD
  - 83 - IL 83 (KINGERY HWY)
  - 64 - IL 64 (NORTH AVE)
- REMOVE AND REPLACE SIGN PANEL
- EXISTING LUMINAIRE TO BE REMOVED
- SIGN PANEL NUMBER
- MOUNTING TYPE
- TR - TRUSS
  - CL - CANTILEVER
  - BM - BRIDGE MOUNTED
  - WP - WOOD POST
  - BS - BREAKAWAY STEEL
  - LP - LIGHT POLE
  - GM - GROUND MOUNTED
- EXAMPLE: EB-TR-03

FILE NAME =	DESIGNED - AJP	REVISED -
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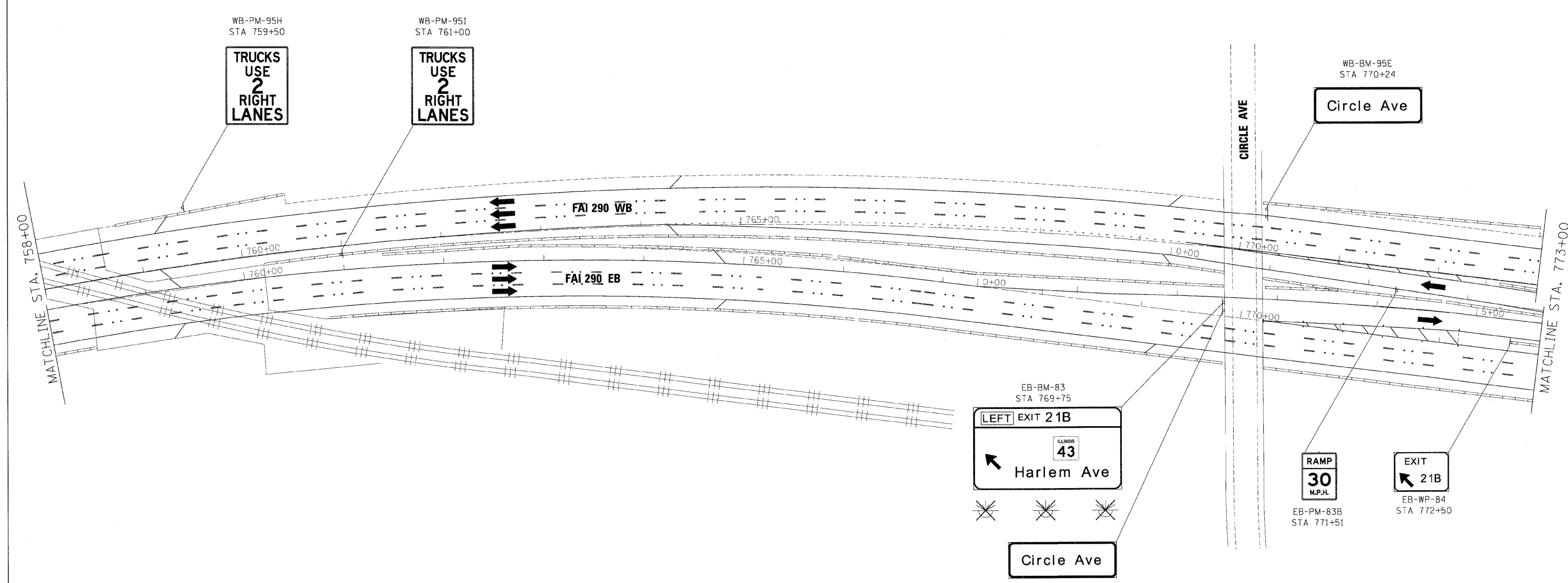
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SIGNING PLANS	
I-290 MAINLINE STA 743+00 TO STA 758+00	
SCALE: 1"=50'	SHEET NO. 6 OF 14 SHEETS
STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(313), ETC., 3435/RS-6	COOK	215	124
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 60K10		





**GUIDE SIGN SEQUENCE  
NUMBERING CODE**

**EXAMPLE**

DIRECTION OF TRAFFIC		EB-TR-03	SIGN PANEL NUMBER
NB - NORTHBOUND FAI 355	CL - CANTILEVER		
SB - SOUTHBOUND FAI 355	BM - BRIDGE MOUNTED		
EB - EASTBOUND FAI 290	WP - WOOD POST		
WB - WESTBOUND FAI 290	BS - BREAKAWAY STEEL		
LS - LAKE STREET	LP - LIGHT POLE		
AT - ARMY TRAIL RD	GM - GROUND MOUNTED		
83 - IL 83 (KINGERY HWY)			
64 - IL 64 (NORTH AVE)			
REMOVE AND REPLACE SIGN PANEL			
EXISTING LUMINAIRE TO BE REMOVED			

FILE NAME =	DESIGNED - AJP	REVISED -
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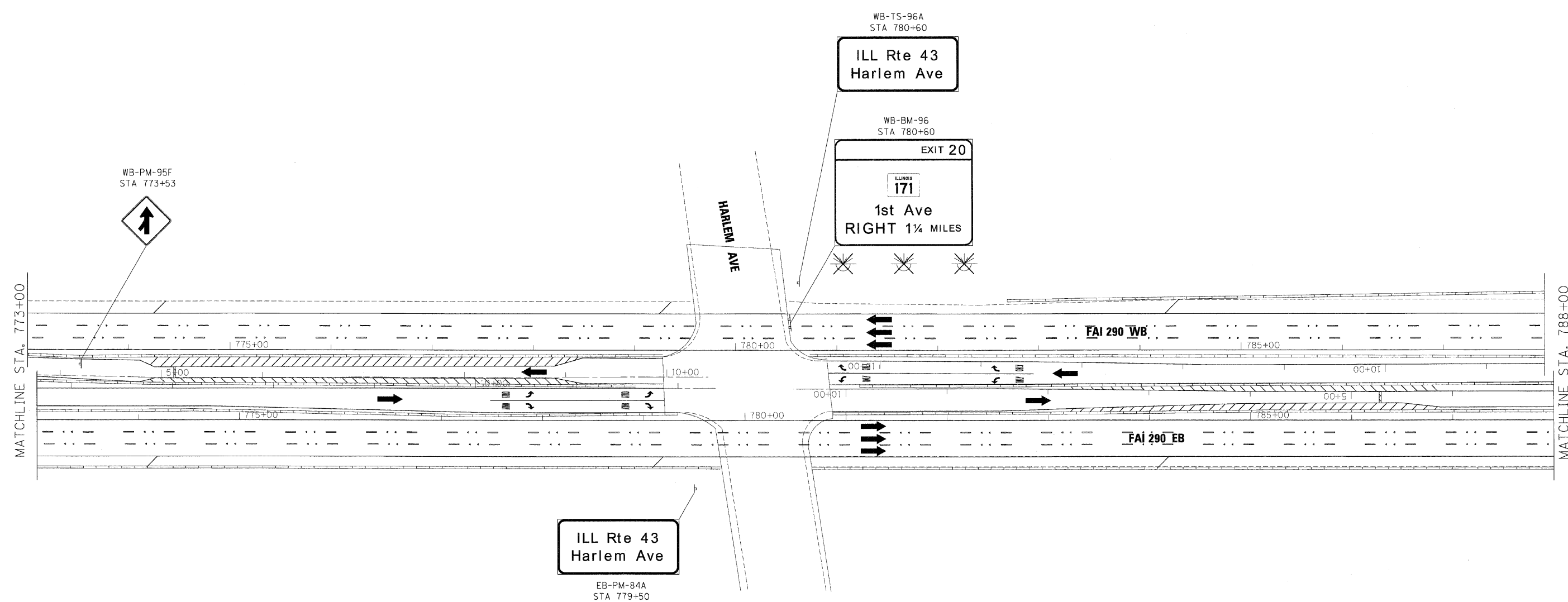
benesch

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLANS**  
**I-290 MAINLINE STA 758+00 TO STA 773+00**

SCALE: 1"=50' SHEET NO. 7 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	125
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 60K10		



**GUIDE SIGN SEQUENCE  
NUMBERING CODE**

**EXAMPLE**

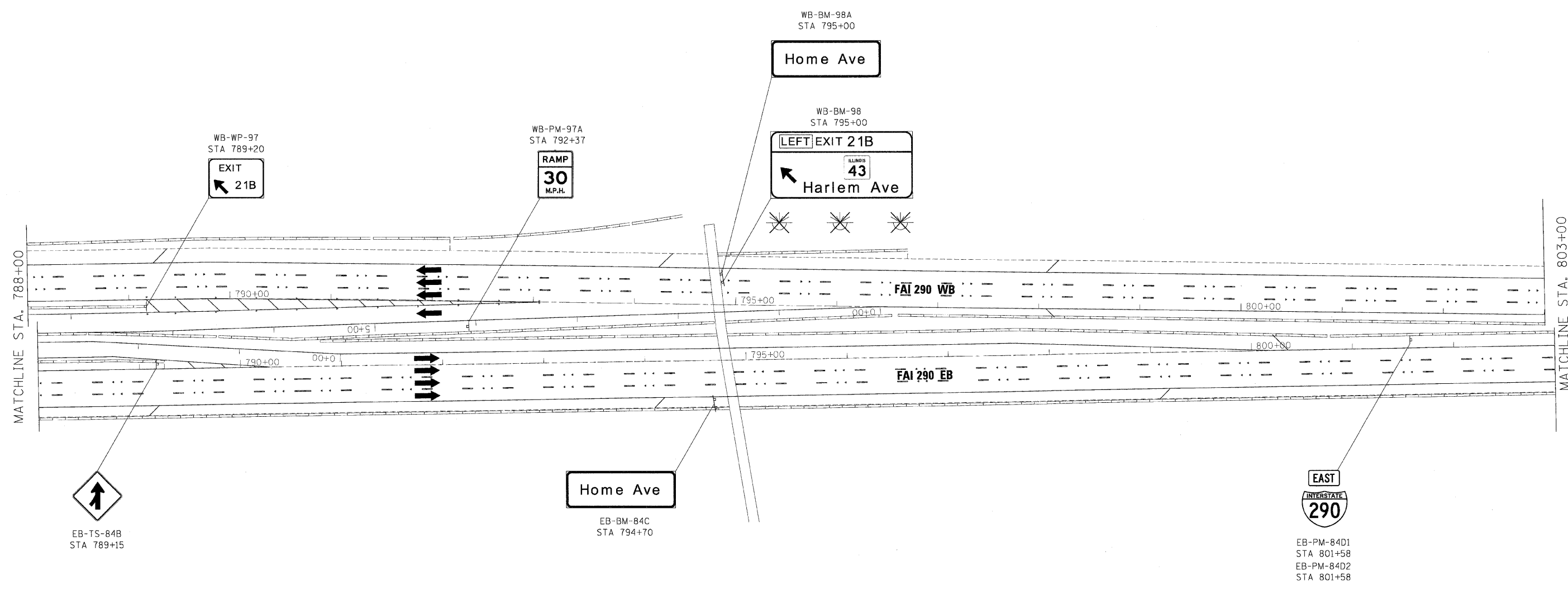
DIRECTION OF TRAFFIC	EB-TR-03	SIGN PANEL NUMBER
NB - NORTHBOUND FAI 355		
SB - SOUTHBOUND FAI 355		
EB - EASTBOUND FAI 290		
WB - WESTBOUND FAI 290		
LS - LAKE STREET		
AT - ARMY TRAIL RD		
83 - IL 83 (KINGERY HWY)		
64 - IL 64 (NORTH AVE)		
REMOVE AND REPLACE SIGN PANEL		MOUNTING TYPE
EXISTING LUMINAIRE TO BE REMOVED		TR - TRUSS
		CL - CANTILEVER
		BM - BRIDGE MOUNTED
		WP - WOOD POST
		BS - BREAKAWAY STEEL
		LP - LIGHT POLE
		GM - GROUND MOUNTED

FILE NAME =	DESIGNED - AJP	REVISED -
...prpln.ABC.60J22.290.pvntnkg.26.dgn	DRAWN - TMB	REVISED -
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PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SIGNING PLANS</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>I-290 MAINLINE STA 773+00 TO STA 788+00</b>		290	(3131, ETC., 3435/RS-6	COOK	215	126
SCALE: 1"=50'	SHEET NO. 8 OF 14 SHEETS	STA.	TO STA.	CONTRACT NO. 60K10		
		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**GUIDE SIGN SEQUENCE  
NUMBERING CODE**

**EXAMPLE**

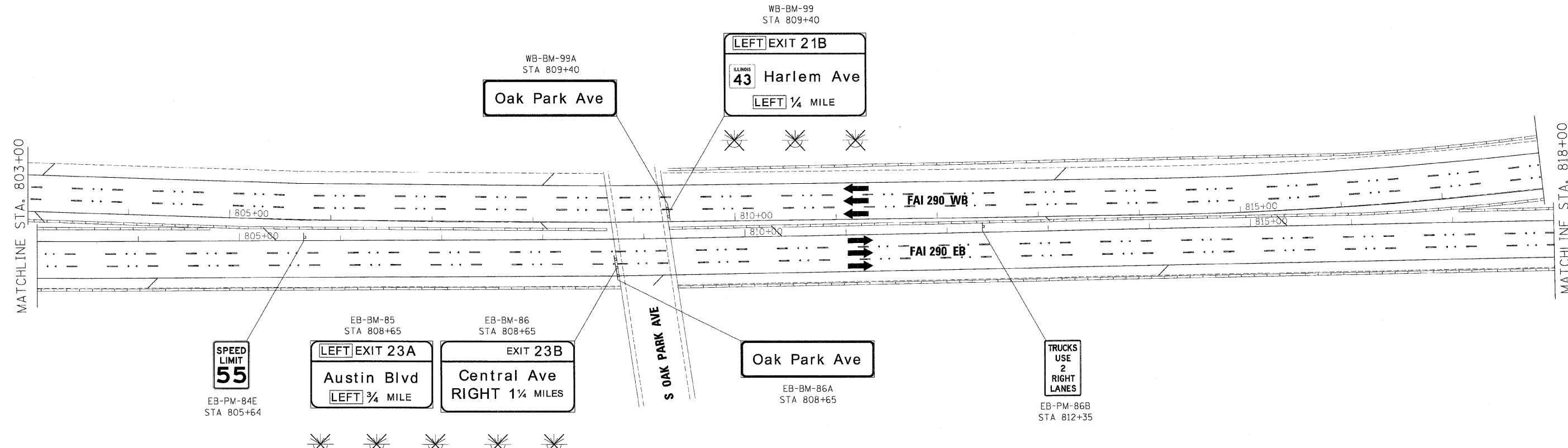
DIRECTION OF TRAFFIC	EB-TR-03	SIGN PANEL NUMBER
NB - NORTHBOUND FAI 355		
SB - SOUTHBOUND FAI 355		
EB - EASTBOUND FAI 290		
WB - WESTBOUND FAI 290		
LS - LAKE STREET		
AT - ARMY TRAIL RD		
83 - IL 83 (KINGERY HWY)		
64 - IL 64 (NORTH AVE)		
REMOVE AND REPLACE SIGN PANEL		MOUNTING TYPE
EXISTING LUMINAIRE TO BE REMOVED		TR - TRUSS
		CL - CANTILEVER
		BM - BRIDGE MOUNTED
		WP - WOOD POST
		BS - BREAKAWAY STEEL
		LP - LIGHT POLE
		GM - GROUND MOUNTED

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**benesch**

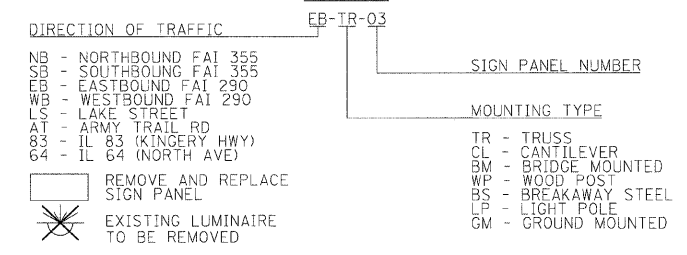
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SIGNING PLANS</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>I-290 MAINLINE STA 788+00 TO STA 803+00</b>		290	(3131, ETC., 3435)RS-6	COOK	215	127
SCALE: 1"=50'	SHEET NO. 9 OF 14 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	
				CONTRACT NO. 60K10		



**GUIDE SIGN SEQUENCE  
NUMBERING CODE**

**EXAMPLE**

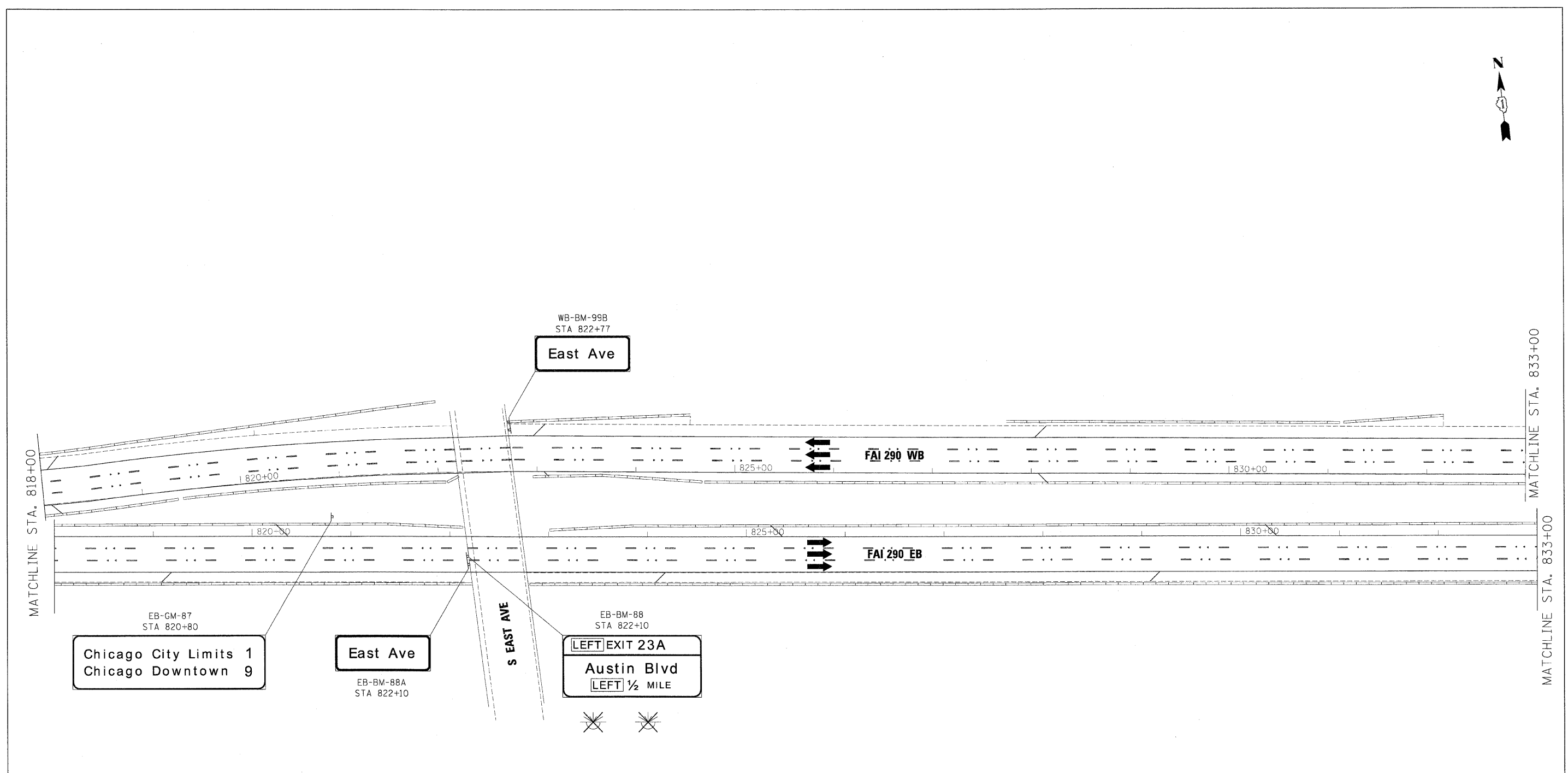


**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

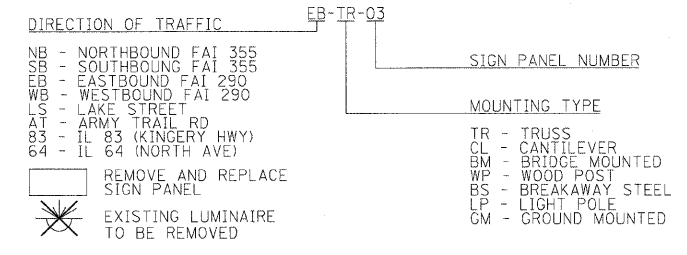
SIGNING PLANS	
<b>I-290 MAINLINE STA 803+00 TO STA 818+00</b>	
SCALE: 1"=50'	SHEET NO. 10 OF 14 SHEETS
STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(313), ETC., 3435RS-6	COOK	215	128
CONTRACT NO. 60K10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**GUIDE SIGN SEQUENCE  
NUMBERING CODE**

**EXAMPLE**



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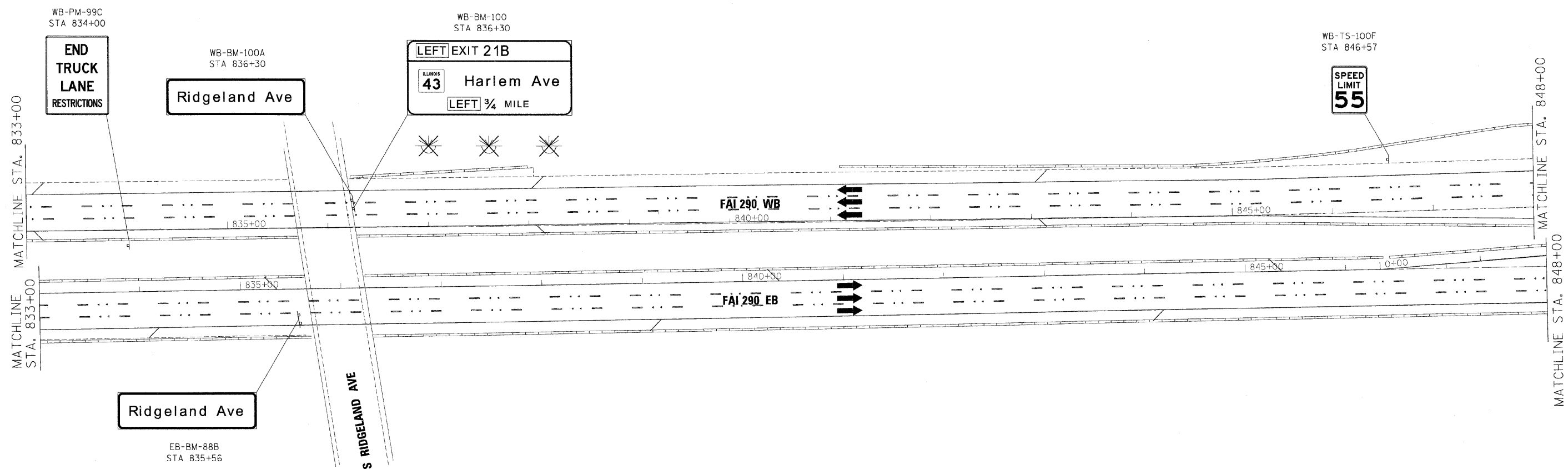
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLANS**  
**I-290 MAINLINE STA 818+00 TO STA 833+00**

SCALE: 1"=50' SHEET NO. 11 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	129
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**EXAMPLE**

DIRECTION OF TRAFFIC	EB-TR-03	SIGN PANEL NUMBER
NB - NORTHBOUND FAI 355		
SB - SOUTHBOUND FAI 355		
EB - EASTBOUND FAI 290		
WB - WESTBOUND FAI 290		
LS - LAKE STREET		
AT - ARMY TRAIL RD		
83 - IL 83 (KINGERY HWY)		
64 - IL 64 (NORTH AVE)		
REMOVE AND REPLACE SIGN PANEL		
EXISTING LUMINAIRE TO BE REMOVED		
		MOUNTING TYPE
		TR - TRUSS
		C - CANTILEVER
		BM - BRIDGE MOUNTED
		WP - WOOD POST
		BS - BREAKAWAY STEEL
		LP - LIGHT POLE
		GM - GROUND MOUNTED

FILE NAME =	DESIGNED - AJP	REVISED -
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PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

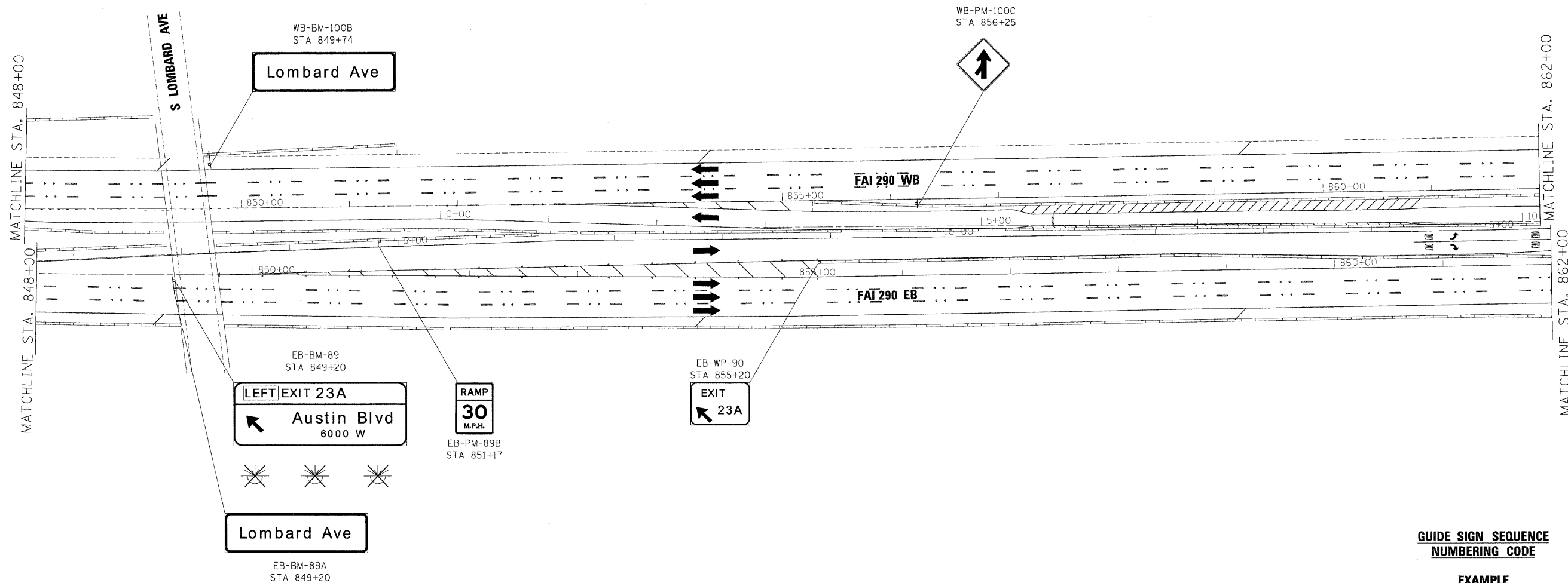
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLANS  
I-290 MAINLINE STA 833+00 TO STA 848+00**

SCALE: 1"=50' SHEET NO. 12 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	130
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 60K10		



**GUIDE SIGN SEQUENCE  
NUMBERING CODE**

DIRECTION OF TRAFFIC		SIGN PANEL NUMBER	
NB - NORTHBOUND FAI 355	TR - TRUSS	EB-IR-03	
SB - SOUTHBOUND FAI 355	CL - CANTILEVER		
EB - EASTBOUND FAI 290	BM - BRIDGE MOUNTED		
WB - WESTBOUND FAI 290	WP - WOOD POST		
LS - LAKE STREET	BS - BREAKAWAY STEEL		
AT - ARMY TRAIL RD	LP - LIGHT POLE		
83 - IL 83 (KINGERY HWY)	GM - GROUND MOUNTED		
64 - IL 64 (NORTH AVE)			
REMOVE AND REPLACE SIGN PANEL			
EXISTING LUMINAIRE TO BE REMOVED			

FILE NAME =	DESIGNED - AJP	REVISED -
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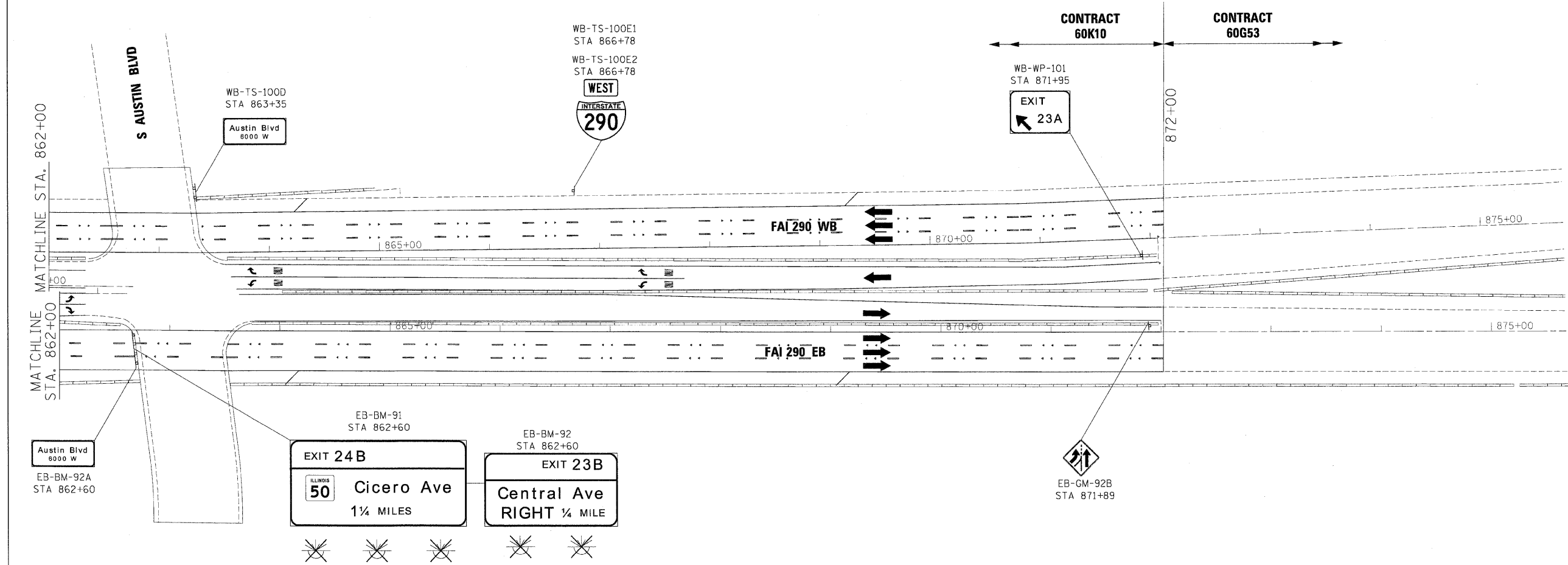
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLANS  
I-290 MAINLINE STA 848+00 TO STA 862+00**

SCALE: 1"=50' SHEET NO. 13 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	131
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 60K10		



**GUIDE SIGN SEQUENCE  
NUMBERING CODE**

**EXAMPLE**

DIRECTION OF TRAFFIC	EB-IR-03	SIGN PANEL NUMBER
NB - NORTHBOUND FAI 355		
SB - SOUTHBOUND FAI 355		
EB - EASTBOUND FAI 290		
WB - WESTBOUND FAI 290		
LS - LAKE STREET		
AT - ARMY TRAIL RD		
83 - IL 83 (KINGERY HWY)		
64 - IL 64 (NORTH AVE)		
REMOVE AND REPLACE SIGN PANEL		
EXISTING LUMINAIRE TO BE REMOVED		
		MOUNTING TYPE
		TR - TRUSS
		CL - CANTILEVER
		BM - BRIDGE MOUNTED
		WP - WOOD POST
		BS - BREAKAWAY STEEL
		LP - LIGHT POLE
		GM - GROUND MOUNTED

FILE NAME =	DESIGNED - AJP	REVISED -
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**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

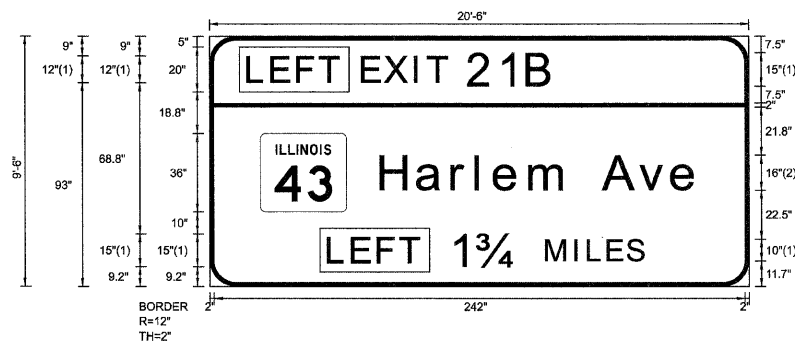
<b>SIGNING PLANS</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>I-290 MAINLINE STA 862+00 TO P.O.E.</b>		290	(3131, ETC., 3435)RS-6	COOK	215	132
SCALE: 1"=50'	SHEET NO. 14 OF 14 SHEETS	STA.	TO STA.		CONTRACT NO. 60K10	
		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



SIGN DETAIL  
1:75

EB-BM-72  
STA. 672+30

SIGN NUMBER	name
WIDTH x HGHT.	20'-6" x 9'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White



FONT:  
(1) ClearviewHwy-5-W  
(2) ClearviewHwy-5-W-R

Panel Style: sign\_default.ssi  
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SYMBOL	ROT	X	Y	WID	HT
M1-1100A-2-22-10D		23.1	34.2	39.3	36

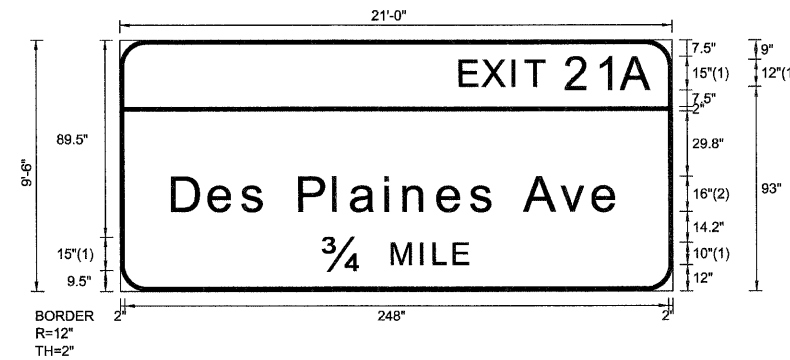
LETTER POSITIONS (X)

													LENGTH	SERIES/SIZE
L	E	F	T										41.2	ClearviewHwy-5-W 12
18	28.8	40.5	50.6										86.8	ClearviewHwy-5-W 12,15
E	X	I	T	2	1	B							144.5	ClearviewHwy-5-W-R 16/13
70.1	80.4	94.1	100	118.6	132.8	145.5							41.2	ClearviewHwy-5-W 12
H	a	r	l	e	m		A	v	e				87.2	ClearviewHwy-5-W 15,10
78.4	94.9	110.9	121.9	130.1	146.3	164.4	179.9	196.4	211.1					
L	E	F	T											
54.6	65.4	77.1	87.2											
1	3/4	M	I	L	E	S								
110.8	122.6	153.8	166.9	172.8	181.9	190.8								

SIGN DETAIL  
1:75

EB-BM-73  
STA. 672+30

SIGN NUMBER	name
WIDTH x HGHT.	21'-0" x 9'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White



FONT:  
(1) ClearviewHwy-5-W  
(2) ClearviewHwy-5-W-R

Panel Style: sign\_default.ssi  
Dimensions are in inches,tenths

Letter locations are panel edge to lower left corner

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

LENGTH SERIES/SIZE

Letter	X	Y	WID	HT	Series/Size
E	155.6	15.0	15.0	12.15	ClearviewHwy-5-W
X	165.9	15.0	15.0	12.15	ClearviewHwy-5-W
I	179.6	15.0	15.0	12.15	ClearviewHwy-5-W
T	185.5	15.0	15.0	12.15	ClearviewHwy-5-W
2	204.1	15.0	15.0	12.15	ClearviewHwy-5-W
1	218.3	15.0	15.0	12.15	ClearviewHwy-5-W
A	229.4	15.0	15.0	12.15	ClearviewHwy-5-W
D	24.2	41.0	55.8	66.0	ClearviewHwy-5-W-R
e	41.0	41.0	55.8	66.0	ClearviewHwy-5-W-R
s	55.8	41.0	55.8	66.0	ClearviewHwy-5-W-R
P	82.2	41.0	55.8	66.0	ClearviewHwy-5-W-R
l	97.8	41.0	55.8	66.0	ClearviewHwy-5-W-R
a	105.7	41.0	55.8	66.0	ClearviewHwy-5-W-R
i	121.3	41.0	55.8	66.0	ClearviewHwy-5-W-R
n	129.8	41.0	55.8	66.0	ClearviewHwy-5-W-R
e	145.3	41.0	55.8	66.0	ClearviewHwy-5-W-R
s	160.1	41.0	55.8	66.0	ClearviewHwy-5-W-R
A	170.3	41.0	55.8	66.0	ClearviewHwy-5-W-R
v	184.8	41.0	55.8	66.0	ClearviewHwy-5-W-R
e	201.4	41.0	55.8	66.0	ClearviewHwy-5-W-R
3/4	93.2	124.4	137.5	143.4	ClearviewHwy-5-W
M	124.4	124.4	137.5	143.4	ClearviewHwy-5-W
l	137.5	124.4	137.5	143.4	ClearviewHwy-5-W
L	143.4	124.4	137.5	143.4	ClearviewHwy-5-W
E	152.5	124.4	137.5	143.4	ClearviewHwy-5-W















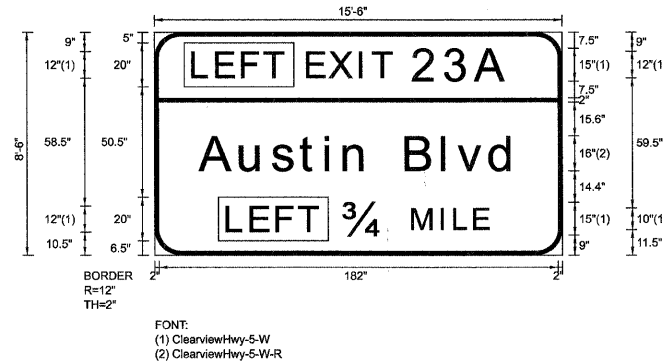




SIGN DETAIL  
1:75

EB-BM-85  
STA. 808+65

SIGN NUMBER	name
WIDTH x HGHT.	15'-6" x 8'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White



Panel Style: sign\_default.ssi  
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE
L	E	F	T											ClearviewHwy-5-W
18	28.8	40.5	50.6										41.2	12
E	X	I	T	2	3	A								ClearviewHwy-5-W
70.1	80.4	94.1	100	118.6	133	147.1							91	12,15
A	u	s	t	i	n		B	l	v	d				ClearviewHwy-5-W-R
21.1	39.6	54.1	66.8	78.4	86.8	97.9	115.1	131.7	138.7	153.4			143.9	16/13
L	E	F	T											ClearviewHwy-5-W
33.5	44.4	56.1	66.2										41.2	12
34	M	I	L	E										ClearviewHwy-5-W
86.8	118	131.1	137.1	146.1									65.7	15,10































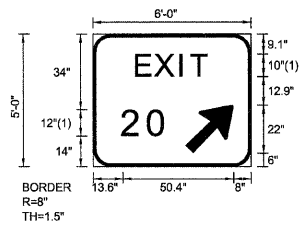






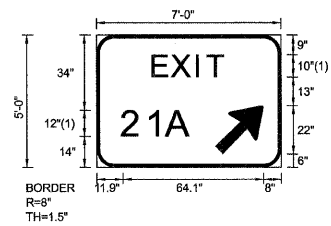






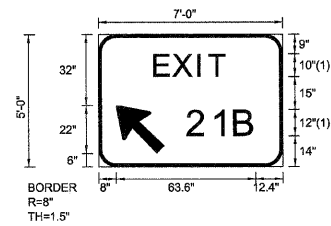
FONT:  
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EB-WP-76  
STA. 690+80



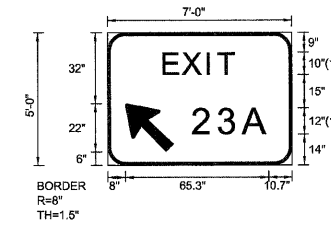
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(1) ClearviewHwy-5-W

EB-WP-80  
STA. 739+15



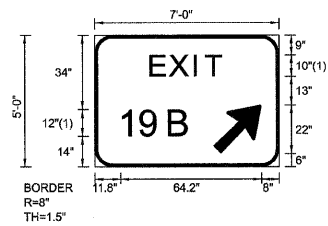
FONT:  
(1) ClearviewHwy-5-W

EB-WP-84  
STA. 772+50



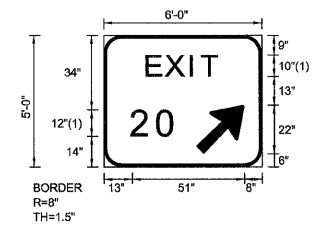
FONT:  
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EB-WP-90  
STA. 855+22



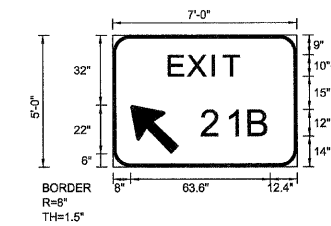
FONT:  
(1) ClearviewHwy-5-W

WB-WP-88  
STA. 678+30



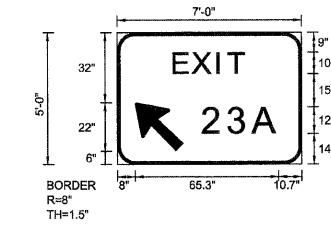
FONT:  
(1) ClearviewHwy-5-W

WB-WP-92  
STA. 706+50



FONT:  
(1) ClearviewHwy-5-W

WB-WP-97  
STA. 789+20



FONT:  
(1) ClearviewHwy-5-W

WB-WP-101  
STA. 871+95

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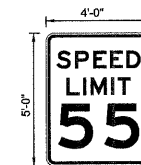
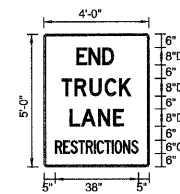
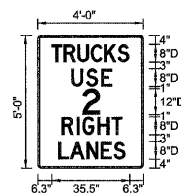
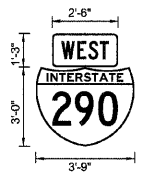


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

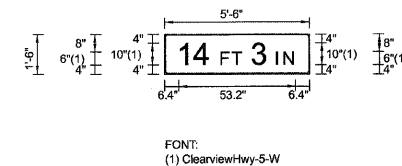
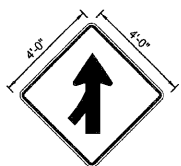
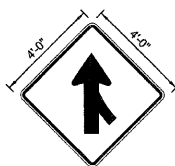
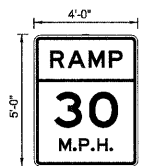
SIGNING DETAILS

SCALE: N.T.S. SHEET NO. 30 OF 34 SHEETS STA. TO STA.

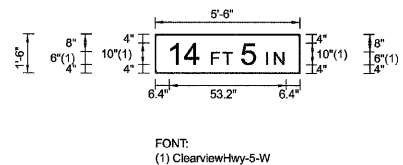
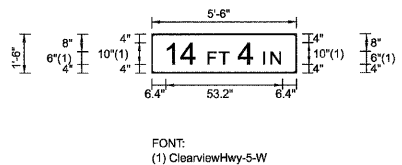
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(313, ETC., 3435) RS-6	COOK	215	162
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60K10	



NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION
WB-PM-89C	688+53			EB-PM-76D	708+94			EB-PM-86B	812+35			EB-PM-76F	715+30			EB-TS-74C	684+75
WB-PM-95B	737+28			EB-PM-84D	801+58			WB-PM-95H	759+50			EB-PM-76C	715+30			EB-PM-74D	684+75
WB-TS-100E	866+78							WB-PM-95I	761+00			WB-PM-99C	834+00			EB-PM-76E	712+43
																EB-PM-84E	805+64
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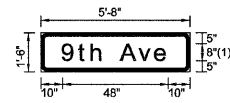


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EB-PM-79A	738+55			EB-WP-76C	704+91			WB-PM-95F	773+53								
EB-PM-83B	771+51			WB-TS-89D	692+52			WB-PM-100C	856+25								
EB-PM-89B	851+17			WB-TS-95C	744+53												
WB-PM-88A	679+49																
WB-PM-92A	708+23																
WB-PM-97A	792+37																



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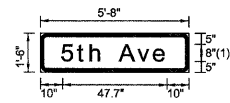
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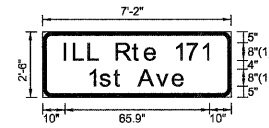
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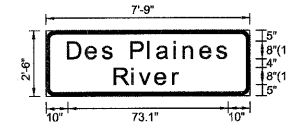
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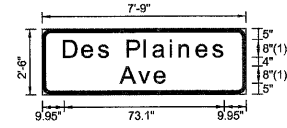
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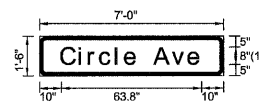
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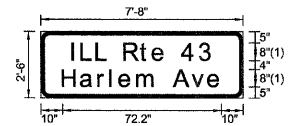
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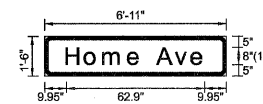
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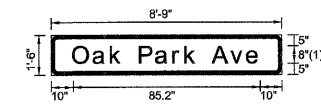
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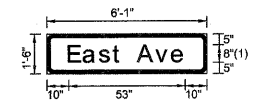
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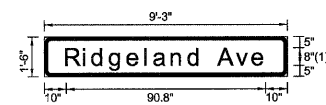
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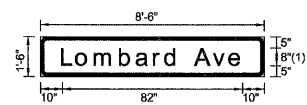
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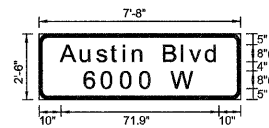
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WB-TS-100D  
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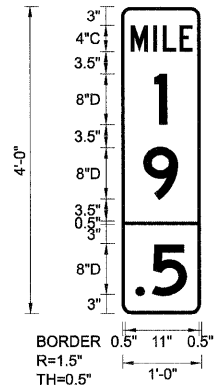
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS	
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STA.	TO STA.

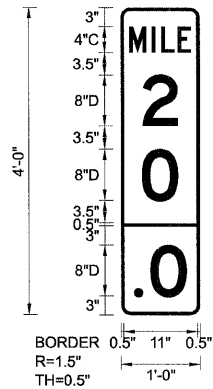
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FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60K10	



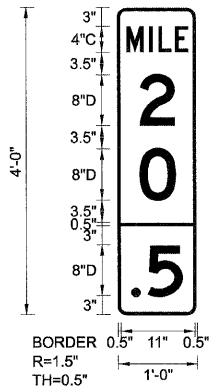
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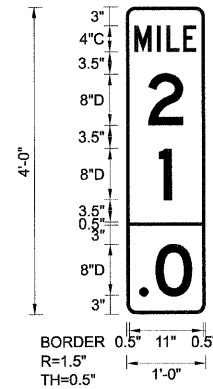
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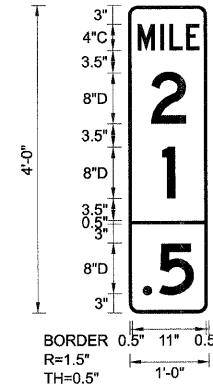
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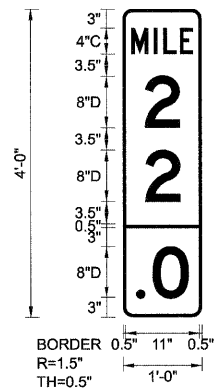
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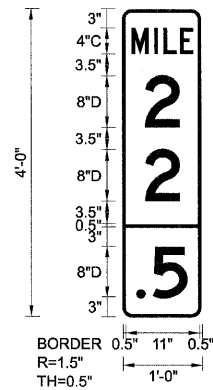
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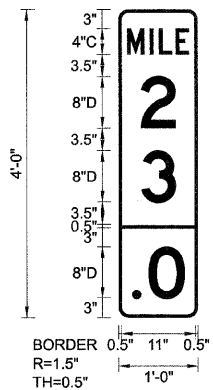
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EB-MM-46  
STA. 827+40



EB-MM-47  
STA. 853+80



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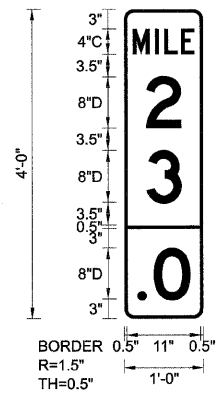
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS

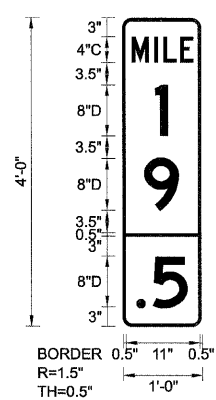
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60K10			ILLINOIS FED. AID PROJECT	

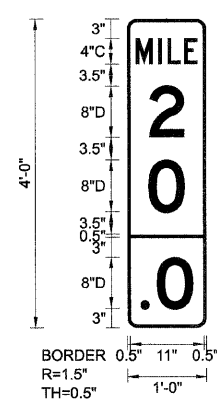
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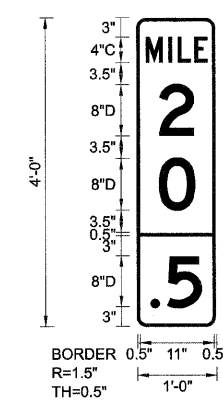
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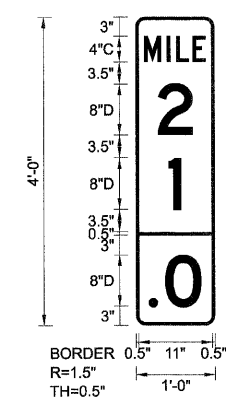
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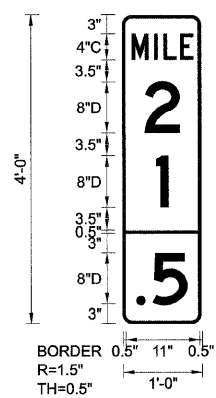
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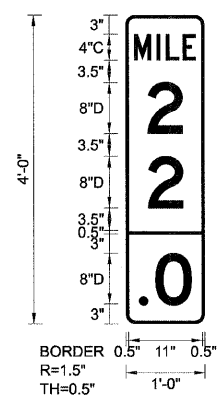
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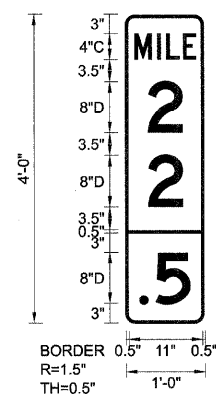
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WB-MM-45  
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WB-MM-46  
STA. 827+40



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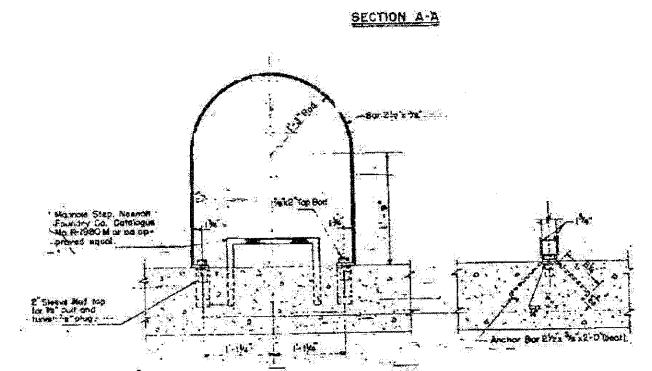
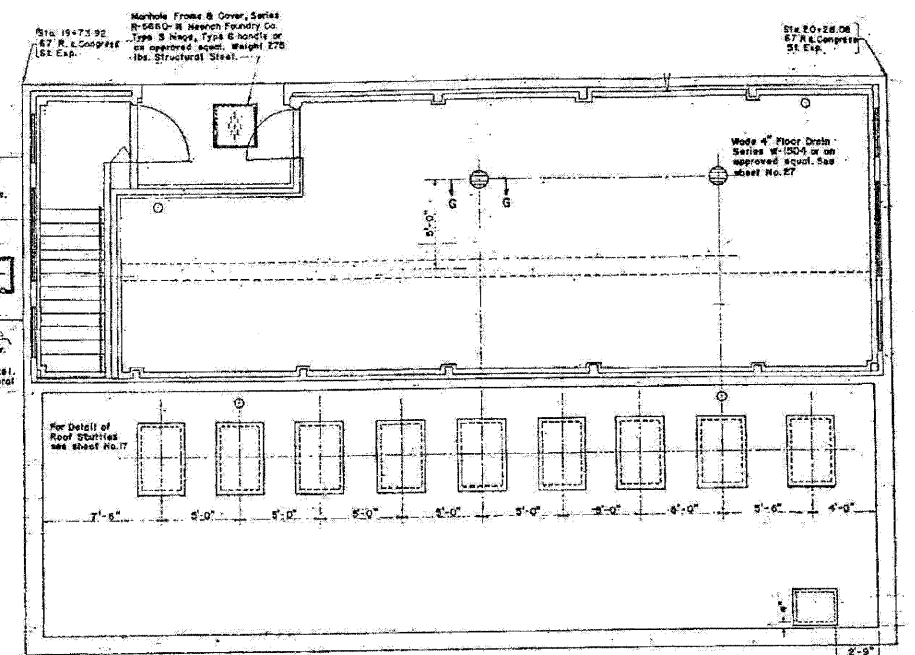
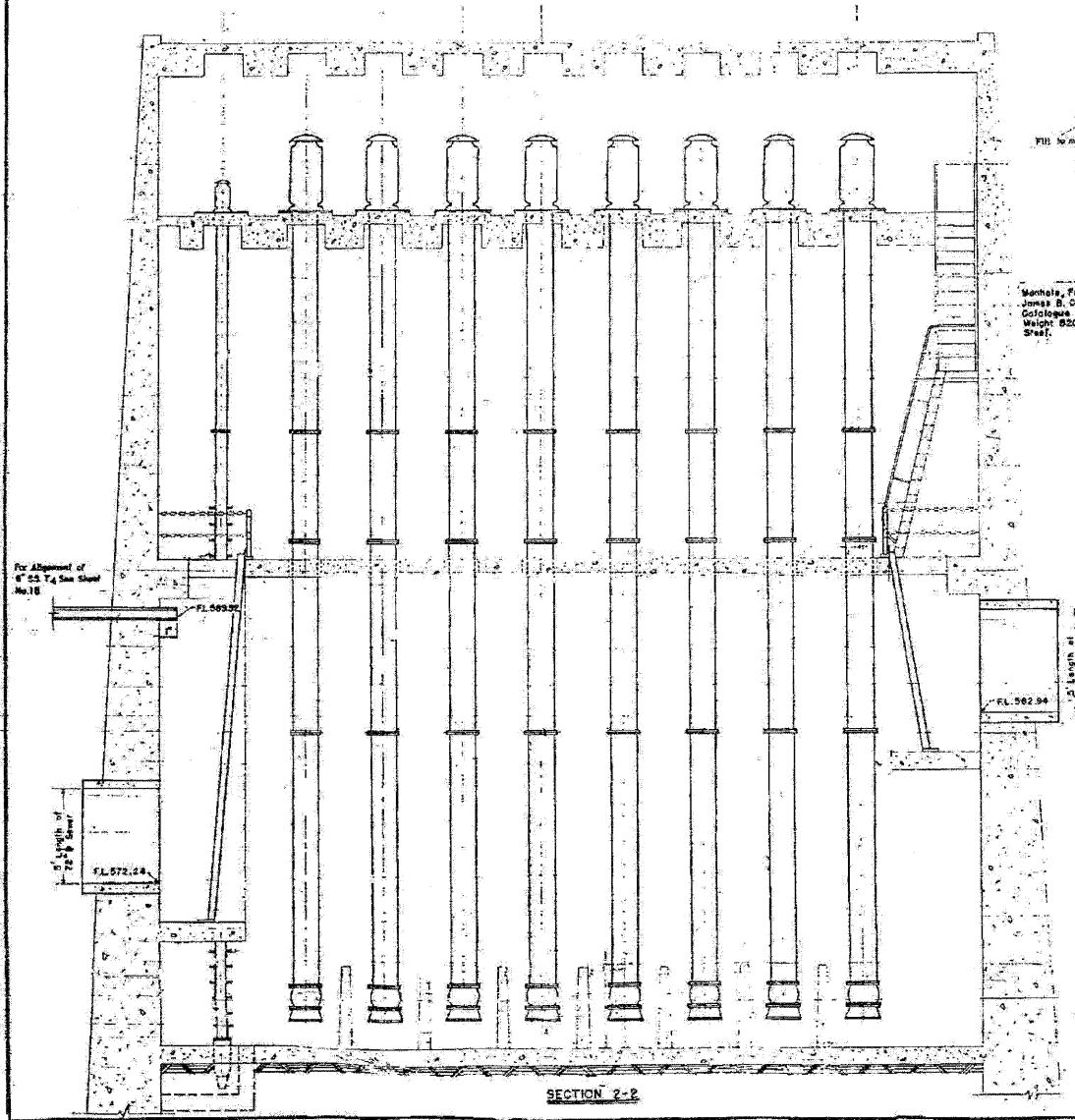
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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		COUNTY COOK	
		TOTAL SHEETS 215	
		SHEET NO. 166	
CONTRACT NO. 60K10			
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

Field Sheet Title  
 No. No. Sheet  
 062 1950-86 33  
 SLIPR 062-34292 RPT

FOR INFORMATION ONLY

PS 4



NOTE:  
 The 6\"/>

LADDER-GUARD (5 Required) Weight 125 lbs. Street Steel  
 MANHOLE STEPS (6 Required) Weight 600 lbs. Street Steel  
 Scale 1/4\"/>

DESIGNED BY  
 J.C.S.  
 DEPARTMENT OF HIGHWAYS  
 CONGRESS ST. EXPRESSWAY  
 PUMPING STATION  
 MECHANICAL DETAILS  
 J.C.S.  
 DATE 11-25-62 Rev. 1-11-63

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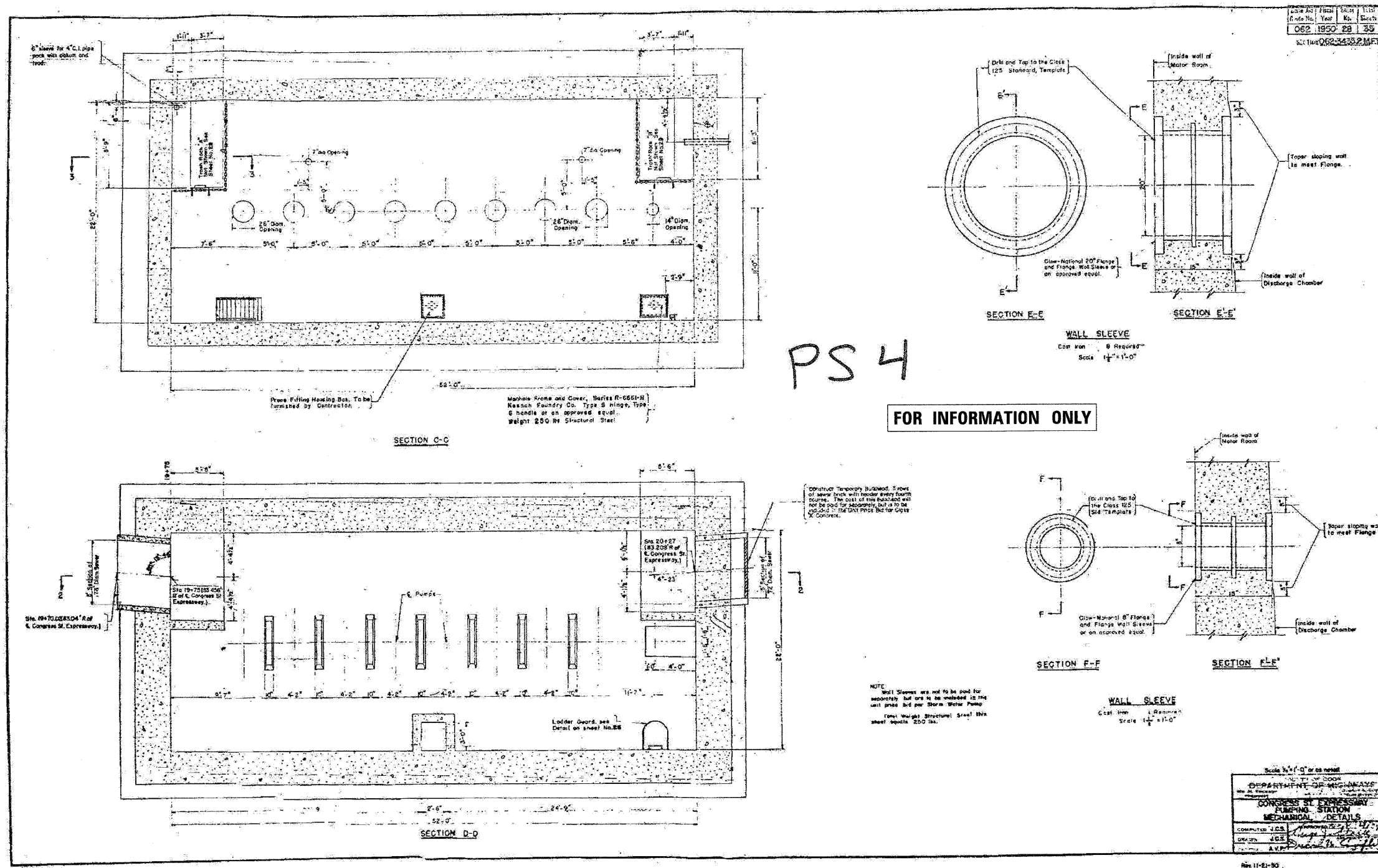
**LE** LIN ENGINEERING, LTD.  
 Consulting Engineers  
 Chatham, Illinois    Westmont, Illinois

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PUMP STATION NO. 4  
 RECORD DRAWINGS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435) RS-6	COOK	215	167
			CONTRACT NO. 60K10	
ILLINOIS FED. AID PROJECT				

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



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PLOT DATE = #DATE#	DATE - 1/25/10	REVISED -



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

<b>PUMP STATION NO. 4</b>		
<b>RECORD DRAWINGS</b>		
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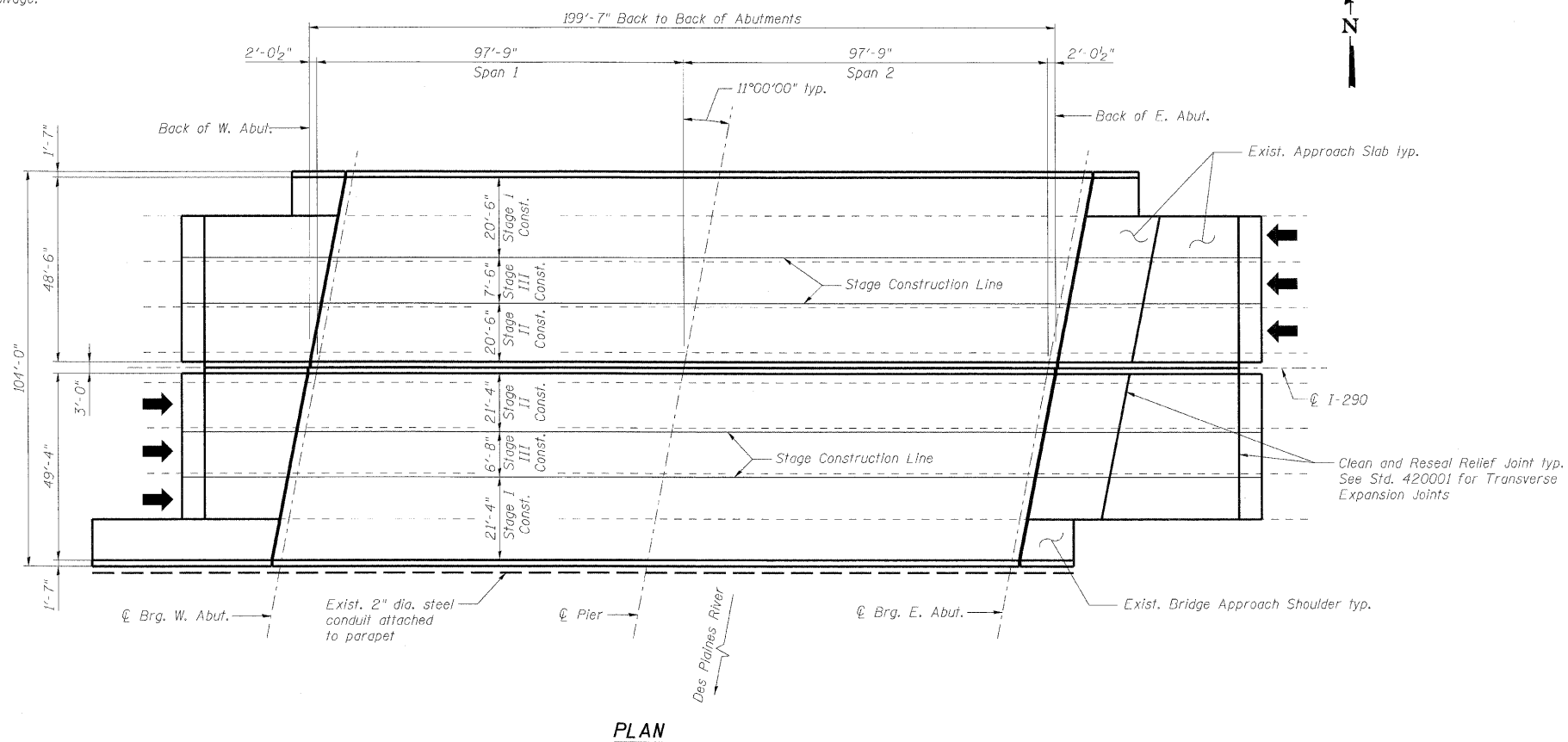
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290	(3131, ETC., 3435) RS-6	COOK	215	168
CONTRACT NO. 60K10				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

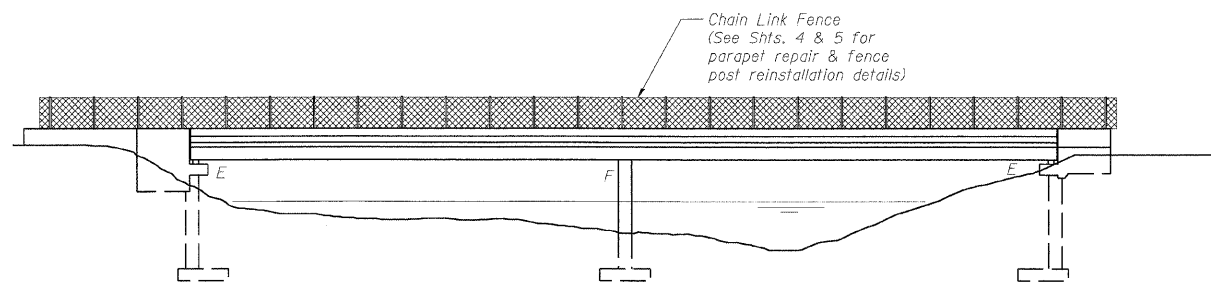
Existing Structure:  
Existing Bridge No. 016-0090 at Sta. 22+27.21 F.A.I. Rte. 290 was built in 1958 as F.A. Rte. 1-Project I-01-4(1), Section 062-3434.1-150. It is a two span continuous composite wide flange beam bridge, 199'-7" bk. to bk. closed abutments cantilever type and solid pier on spread footing. The Bridge was widened in 1984 to 104'-0" O. to O.

Stage construction shall be utilized to maintain traffic during construction.

No salvage.



PLAN



ELEVATION

**DESIGN SPECIFICATIONS**

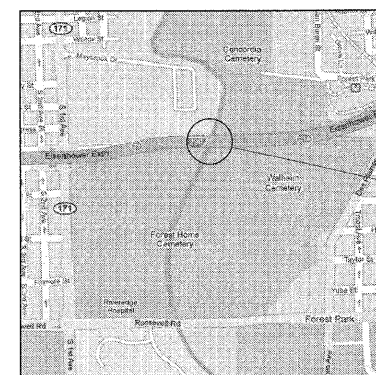
2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

**DESIGN STRESSES**

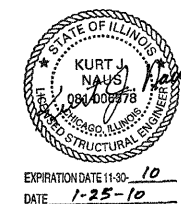
$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi

**SCOPE OF WORK**

1. Repair bridge decks.
2. Repair approach slabs.
3. Remove and reinstall chain link fence posts and base plates, including concrete repair along eastbound outside parapet.
4. Clean and reseal relief joints at end of approach slabs.
5. Replace preformed joint seals with silicone joint seals.
6. Apply concrete sealer to bridge decks, parapets, approach slabs, abutment seats and backwalls.



LOCATION SKETCH



**GENERAL PLAN AND ELEVATION**  
**I-290 OVER DES PLAINES RIVER**  
COOK COUNTY  
STATION 721+68  
STRUCTURE NO. 016-0090

DESIGNED -	DMS
CHECKED -	EFS
DRAWN -	RMG
CHECKED -	KJN

**benesch**

alfred benesch & company  
Engineers - Surveyors - Planners  
205 North Michigan Avenue, Suite 2400  
Chicago, Illinois 60601  
312-565-0450 Job No. 10050

SHEET NO. 1 5 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	290	(3131, ETC., 3435)RS-6	COOK	215	169
			CONTRACT NO. 60K10		
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT	

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES**

1. Reinforcement bars shall conform to the requirements of ASIM A 706 Gr 60. See Special Provisions.
2. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
3. Concrete Sealer shall be applied to the bridge decks, top and inside faces of parapets, approach slabs, abutment seats and abutment backwalls. All surfaces to be sealed shall be cleaned thoroughly prior to sealer application. Cost included in Concrete Sealer.
4. Stage construction shall be utilized to maintain traffic during construction.

**INDEX OF SHEETS**

- 1 General Plan and Elevation
- 2 General Notes, Bill of Material and Index of Sheets
- 3 Stage Construction Details
- 4 Bridge Deck and Approach Slab Repairs
- 5 Chain Link Fence Post and Bridge Parapet Repairs

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Sealer	Sq. Ft.	28,100	1,327	29,427
Silicone Joint Sealer	Foot	199.5		199.5
Approach Slab Repair (Partial Depth)	Sq. Yd.	49.0		49.0
Deck Slab Repair (Partial)	Sq. Yd.	10.0		10.0
Clean & Reseal Relief Joint	Foot	217.5		217.5
Remove and Reinstall Chain Link Fence Post	Each	7		7

DESIGNED	DMS
CHECKED	EFS
DRAWN	RMG
CHECKED	KJN

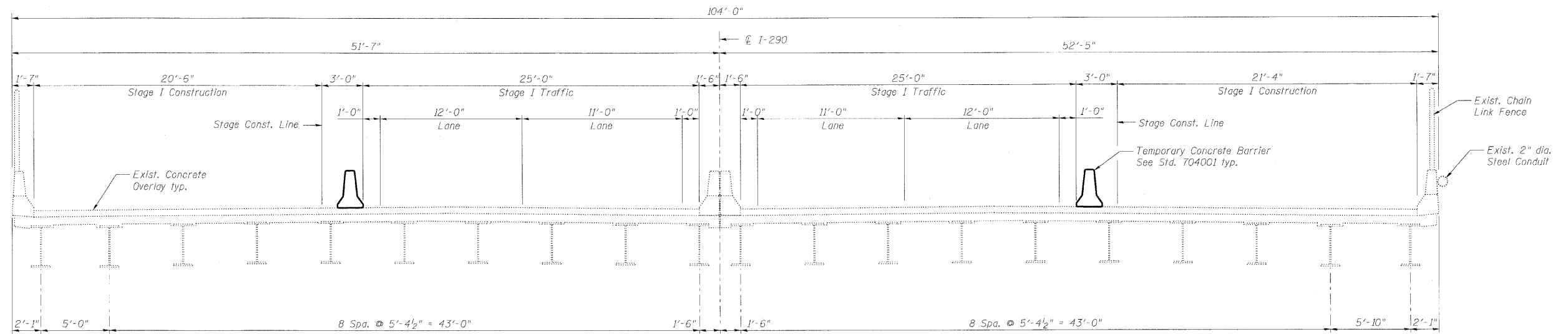
**GENERAL NOTES, BILL OF MATERIAL  
AND INDEX OF SHEETS  
STRUCTURE NO. 016-0090**

**benesch**

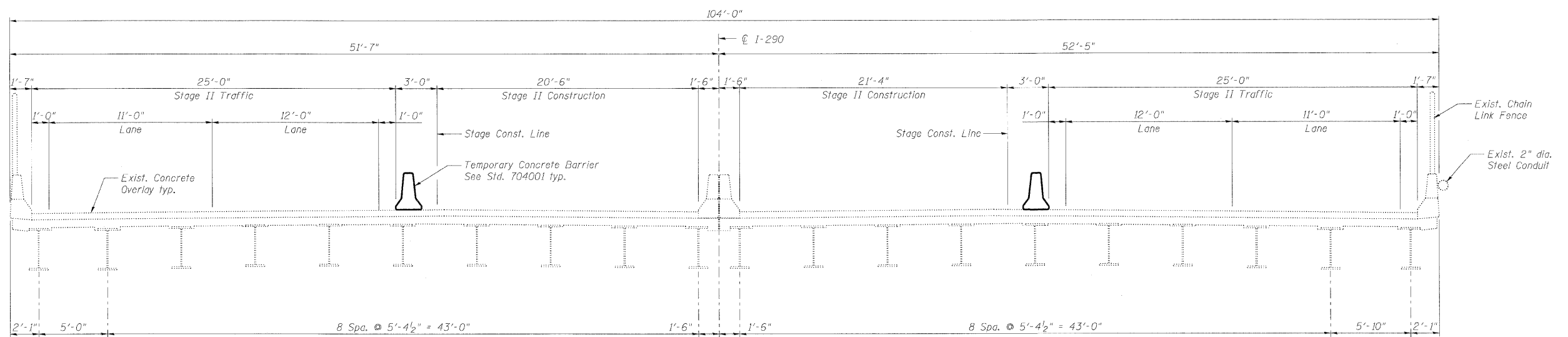
alfred benesch & company  
Engineers • Surveyors • Planners  
205 North Michigan Avenue, Suite 2400  
Chicago, Illinois 60601  
312-565-0450 Job No. 10050

SHEET NO. 2	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	290	(3131, ETC., 3435)RS-6	COOK	215	170
5 SHEETS	CONTRACT NO. 60K10				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**STAGE I CROSS SECTION**  
(Looking East)



**STAGE II CROSS SECTION**  
(Looking East)

**Stage III Note:**

Bridge deck and approach slab repairs between Stage I and Stage II construction lines shall be performed over a weekend using IDOT District 1 Std. TC-25 Center Lane Closure. See Maintenance of Traffic Plans. Concrete for Stage III patching shall be Class PP-2.

**Note:**  
For quantity of Temporary Concrete Barrier, see roadway plans.

**STAGE CONSTRUCTION DETAILS**  
**STRUCTURE NO. 016-0090**

DESIGNED -	MFB
CHECKED -	MAC
DRAWN -	VH
CHECKED -	KJN

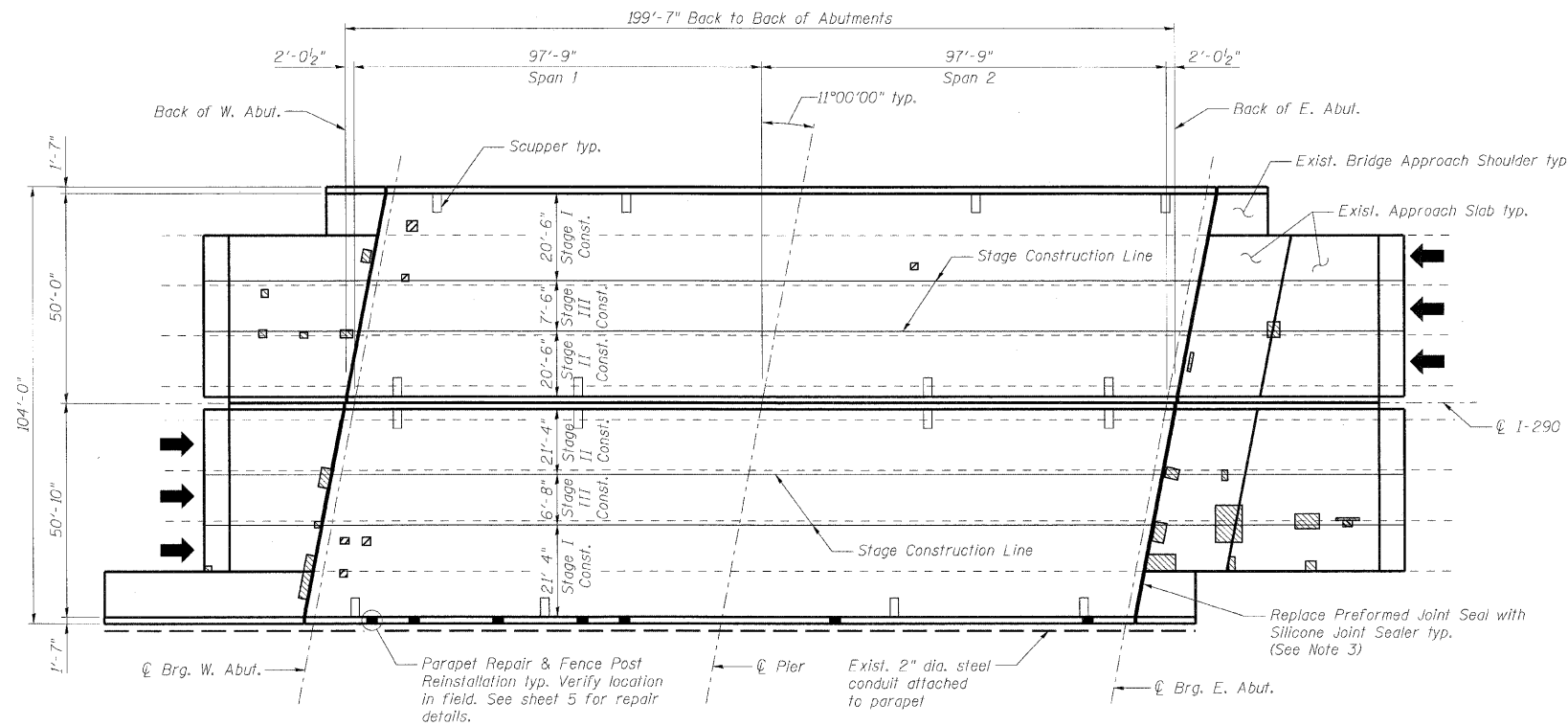
**benesch**

alfred benesch & company  
Engineers • Surveyors • Planners  
205 North Michigan Avenue, Suite 2400  
Chicago, Illinois 60601  
312-565-0450 Job No. 10050

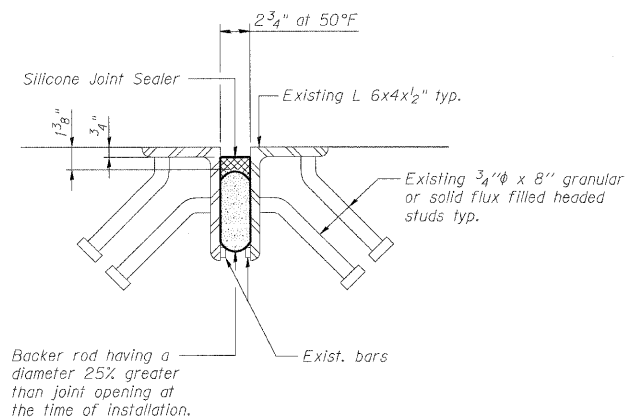
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	CONTRACT NO. 60K10				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

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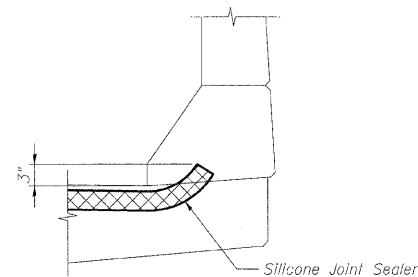
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



PLAN



SILICONE JOINT SEALER DETAIL



SILICONE JOINT SEALER  
TREATMENT AT PARAPET

**Stage III Note:**

Bridge deck and approach slab repairs between Stage I and Stage II construction lines shall be performed over a weekend using IDOT District 1 Std. TC-25 Center Lane Closure. See Maintenance of Traffic Plans. Concrete for Stage III patching shall be Class PP-2.

**BILL OF MATERIAL**

Symbol	Item	Unit	Quantity
	Deck Slab Repair (Partial)	Sq. Yd.	10.0
	Approach Slab Repair (Partial Depth)	Sq. Yd.	49.0
	Silicone Joint Sealer	Foot	199.5

**Notes:**

- Deck and approach slab repair areas are estimated based on visual inspection completed in June 2009. Actual repair areas and locations shall be determined by the Engineer and shown on As-Built plans.
- Deck drains (downspouts, floor drains and scuppers) shall be cleaned with the bridge deck prior to application of the Concrete Sealer. Cost of cleaning the deck drains is included with Concrete Sealer.
- The construction joint between the approach slab and backwall closure pour, adjacent to the existing preformed joint seal, shall be cleaned and sealed with hot-poured joint sealer according to Section 452 of the Std. Specifications. Cost included with "Concrete Sealer".
- Cost of Removal of existing preformed joint seal is included with Silicone Joint Sealer.

**BRIDGE DECK AND APPROACH SLAB REPAIRS  
STRUCTURE NO. 016-0090**

DESIGNED	DMS
CHECKED	EFS
DRAWN	RMG
CHECKED	KJN

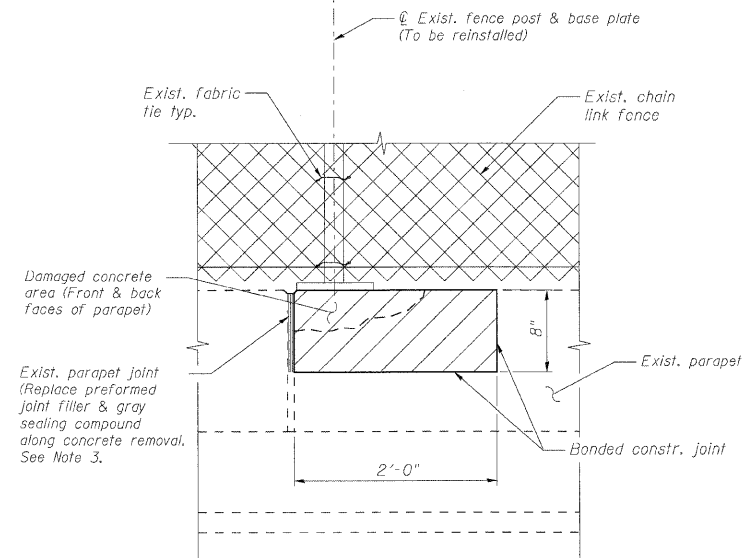
**benesch**

alfred benesch & company  
Engineers • Surveyors • Planners  
205 North Michigan Avenue, Suite 2400  
Chicago, Illinois 60601  
312.666-0450 Job No. 10060

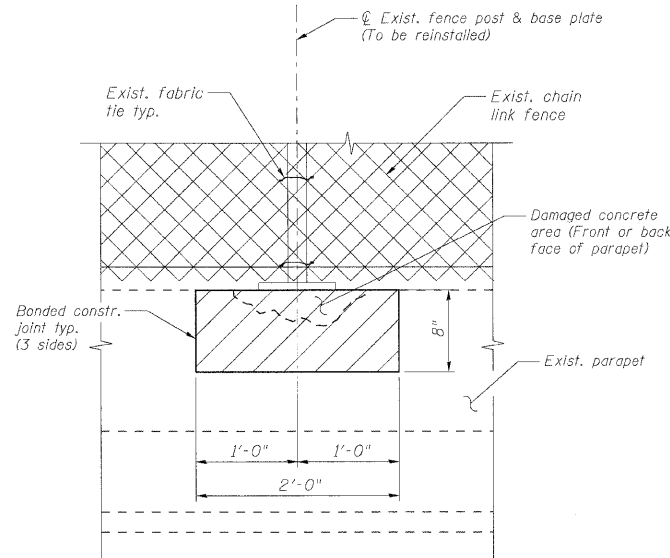
SHEET NO. 4	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	290	(3131, ETC., 3435)RS-6	COOK	215	172
5 SHEETS			CONTRACT NO. 60K10		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			




STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

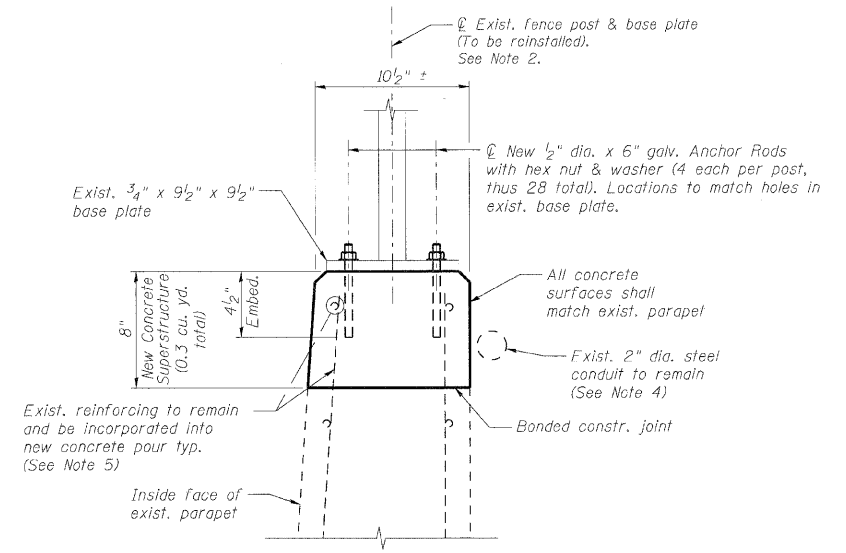


**INSIDE ELEVATION - REPAIR AT PARAPET JOINT**  
(2 Locations)



**INSIDE ELEVATION - REPAIR AWAY FROM PARAPET JOINT**  
(5 Locations)

 Limits of Concrete Removal & Replacement  
(See Note 6)



**TYPICAL SECTION AT PARAPET REPAIR**

**Notes:**

1. Work this sheet with sheets 1 and 4.
2. The existing fence post and base plate have twisted, causing localized damage to the existing concrete parapet and several anchor rods. The existing fence post and base plate shall be removed and reinstalled with the new concrete parapet repair. The fence post and base plate shall be realigned and centered across the parapet to match the existing non-damaged fence posts and base plates. The new anchor rods shall be cast-in-place. Drilling and setting of the anchor rods is prohibited.
3. The existing parapet joint shall be replaced using a 1/2" Preformed Self-Expanding Cork Joint Filler according to Article 105L07 of the Std. Spec., and non-staining gray one component non-sag elastomeric gun grade polyurethane sealant meeting the requirements of ASTM C-290, Type S, Grade NS, Class 25, Use T, to match the existing joint installation.
4. The Contractor shall exercise extreme care with the existing steel conduit attached to the back face of the parapet to be removed, and to protect and support the conduit. The Contractor will be required to repair any damage done to the conduit to the satisfaction of the Engineer. No splicing will be allowed to any cable damage resulting from this work, instead the Contractor will be required to repair the entire span of any damaged cable at no additional cost to the Department.
5. Existing reinforcement bars extending into the concrete removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be repaired or replaced with an approved bar splicer or anchorage system. Cost included with "Remove and Reinstall Chain Link Fence Post".
6. The Contractor shall ensure that all concrete parapet to be removed is contained and not allowed to fall into the Des Plaines River. If Protective Shield is necessary, then the cost shall be included in "Remove and Reinstall Chain Link Fence Post".
7. The cost of concrete removal, concrete superstructure, preformed joint filler, gray sealing compound, chain link fence fabric ties, threaded anchor rods, nuts and washers is included with "Remove and Reinstall Chain Link Fence Post". See Special Provision.

**BILL OF MATERIAL**

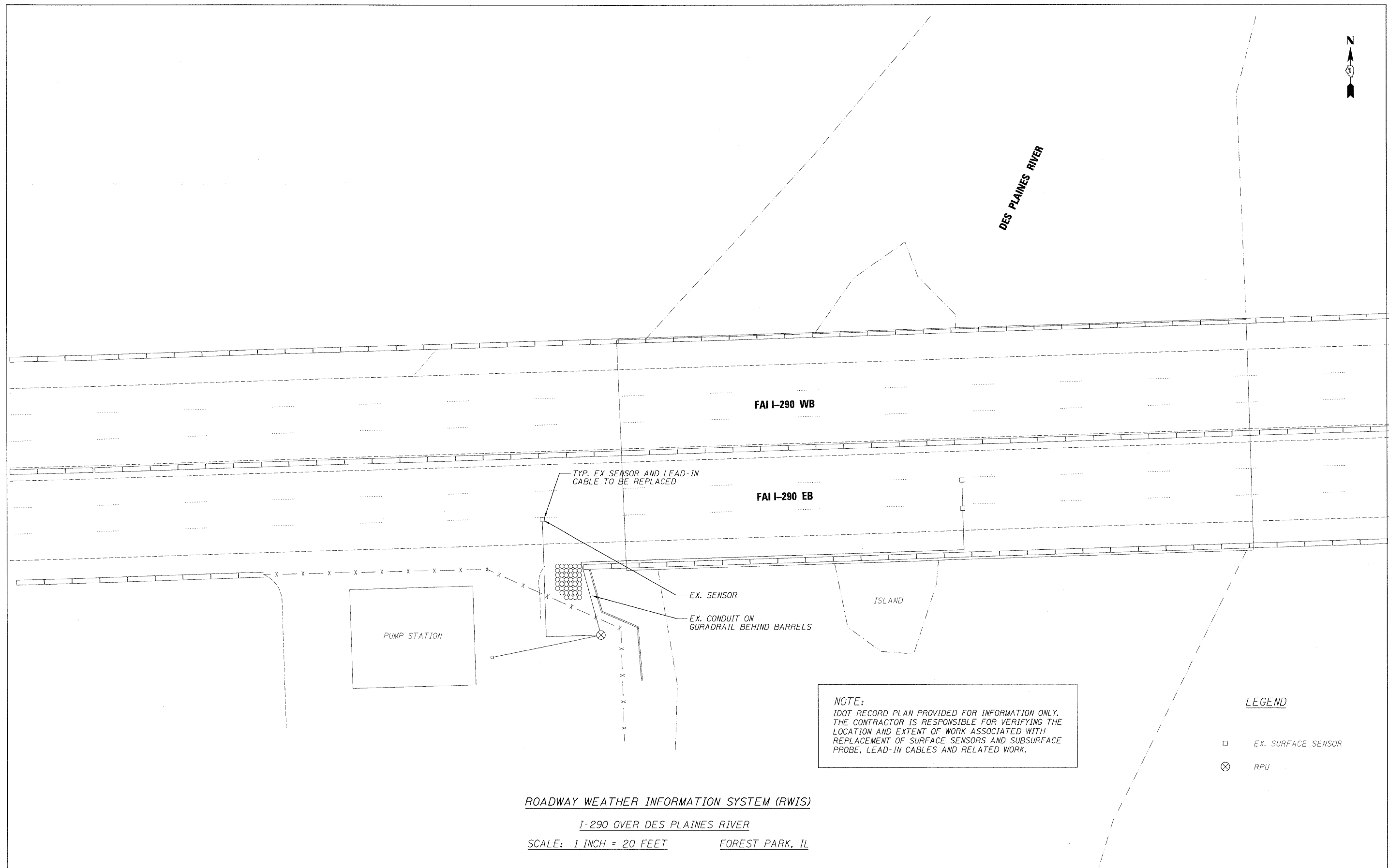
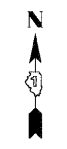
ITEM	UNIT	QUANTITY
Remove and Reinstall Chain Link Fence Post	Each	7

DESIGNED	-	KJN
CHECKED	-	KWS
DRAWN	-	RMG
CHECKED	-	KJN

**benesch**  
alfred benesch & company  
Engineers - Surveyors - Planners  
205 North Michigan Avenue, Suite 2400  
Chicago, Illinois 60601  
312-565-0460 Job No. 10050

**CHAIN LINK FENCE POST  
AND BRIDGE PARAPET REPAIRS  
STRUCTURE NO. 016-0090**

SHEET NO. 5 5 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	290	(3131, ETC., 3435)RS-6	COOK	215	173
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60K10					



**NOTE:**  
 IDOT RECORD PLAN PROVIDED FOR INFORMATION ONLY.  
 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE  
 LOCATION AND EXTENT OF WORK ASSOCIATED WITH  
 REPLACEMENT OF SURFACE SENSORS AND SUBSURFACE  
 PROBE, LEAD-IN CABLES AND RELATED WORK.

**LEGEND**

□ EX. SURFACE SENSOR

⊗ RPU

**ROADWAY WEATHER INFORMATION SYSTEM (RWIS)**  
**I-290 OVER DES PLAINES RIVER**  
**SCALE: 1 INCH = 20 FEET**      **FOREST PARK, IL**

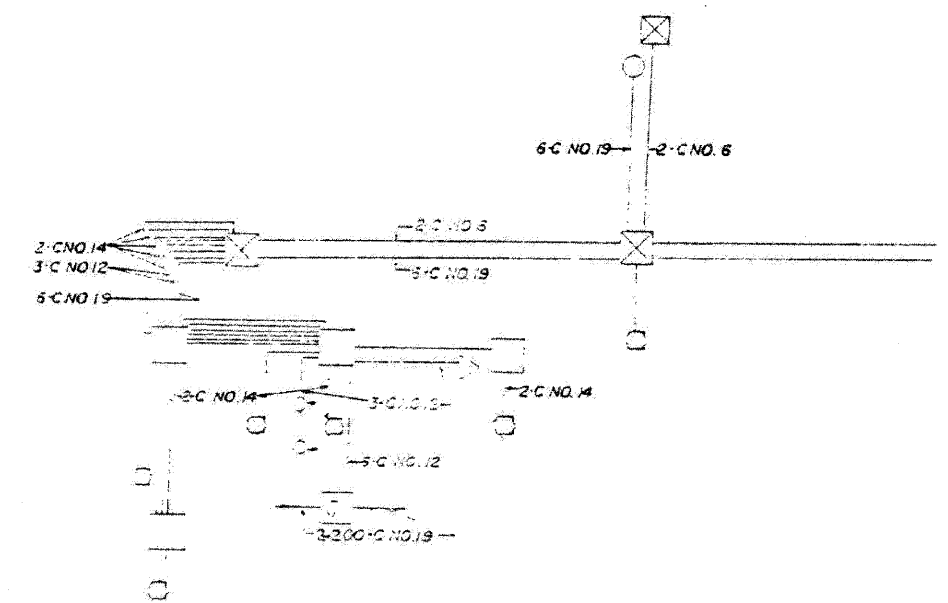
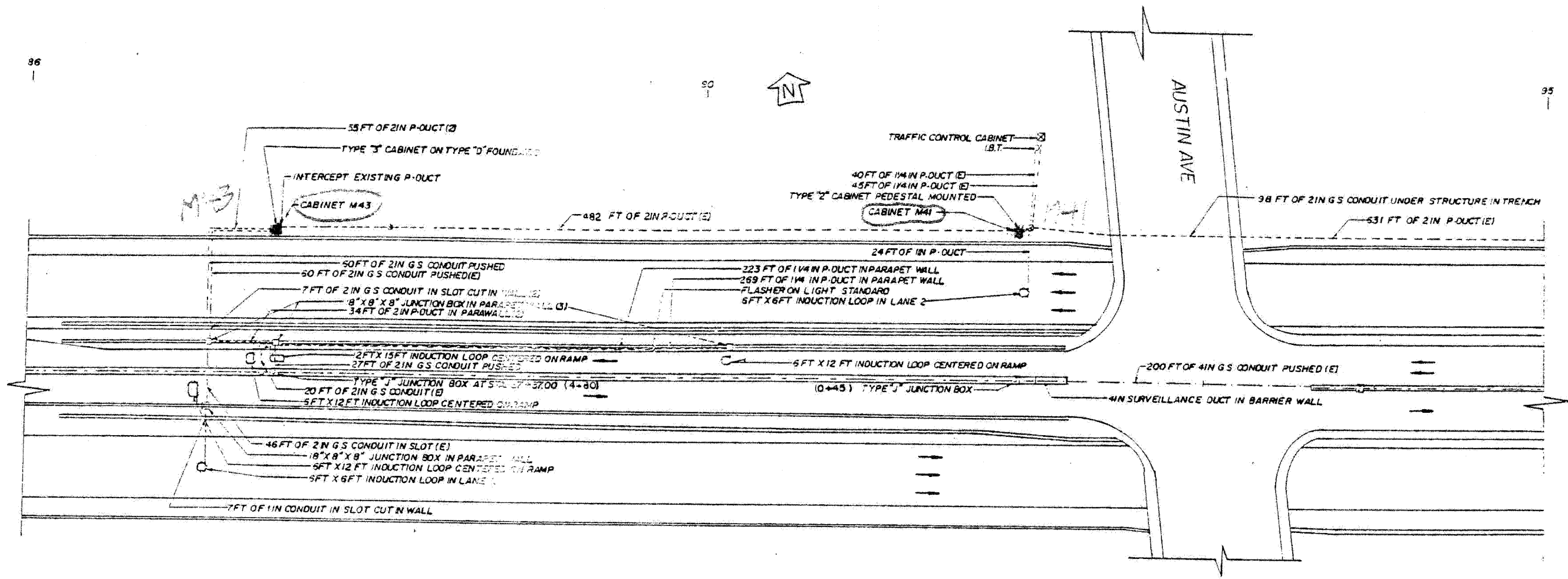
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**benesch**

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

<b>ROADWAY WEATHER INFORMATION SYSTEM SENSOR</b>			
SCALE: N.T.S.	SHEET NO. 1	OF 9 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	13131, ETC., 3435RS-6	COOK	215	174
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60K10	



- LEGEND**
- INDUCTION LOOP
  - ⊗ T.S.C. CABINET
  - POLYETHYLENE DUCT
  - HANDHOLE
  - JUNCTION BOX
  - SERVICE INSTALLATION
  - (E) EXISTING FACILITIES

**NOTE:**  
 IDOT RECORD PLANS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND EXTENT OF WORK ASSOCIATED WITH REPLACEMENT OF INDUCTION LOOPS, LEAD-IN CABLE AND RELATED WORK.

SUMMARY OF QUANTITIES (THIS SHEET)		
DESCRIPTION	UNIT	QUANTITY
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 4/C, TWISTED, SHIELDED	LF	1037
INDUCTION LOOP	LF	256

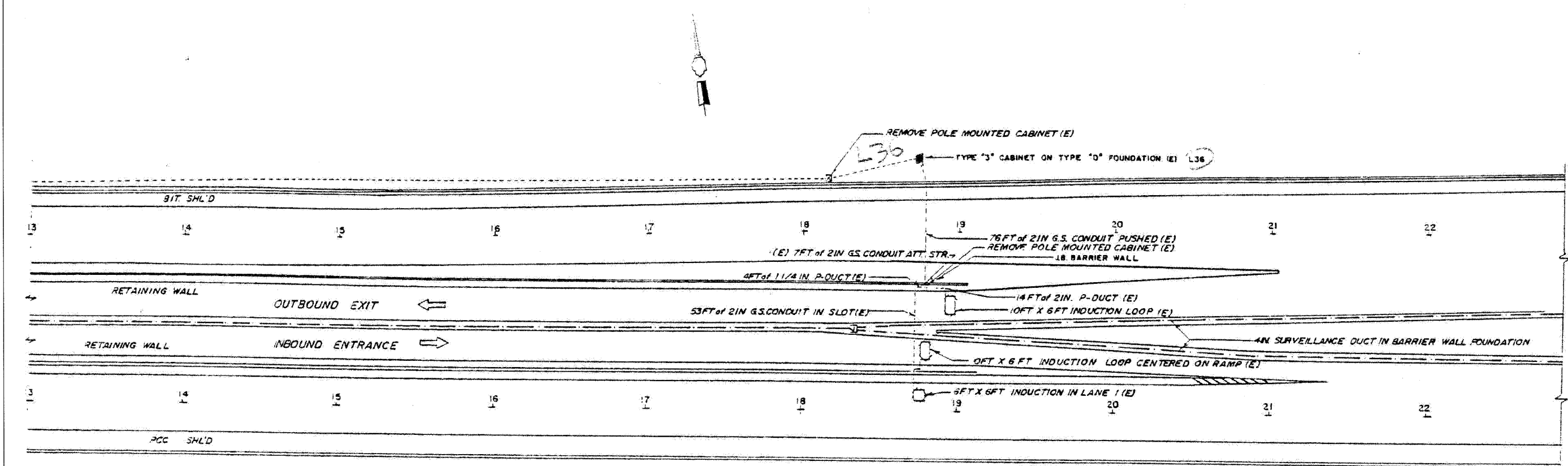
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SURVEILLANCE  
 AUSTIN AVE INSTALLATION (1 OF 2)**  
 SCALE: N.T.S. SHEET NO. 2 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
290	(3131, ETC., 3435)RS-6	COOK	215 175
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	



- INDUCTION LOOP
- POLYETHYLENE DUCT
- G.S. CONDUIT
- PULL POINT
- HANDHOLE
- HEAVY DUTY HAND HOLE
- T.S. CABINET
- SERVICE INSTALLATION
- (E) EXISTING FACILITIES
- (R) REMOVE EXISTING FACILITIES

**NOTE:**

IDOT RECORD PLANS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND EXTENT OF WORK ASSOCIATED WITH REPLACEMENT OF INDUCTION LOOPS, LEAD-IN CABLE AND RELATED WORK.

SUMMARY OF QUANTITIES (THIS SHEET)		
DESCRIPTION	UNIT	QUANTITY
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 4/C, TWISTED, SHIELDED	LF	377
INDUCTION LOOP	LF	104

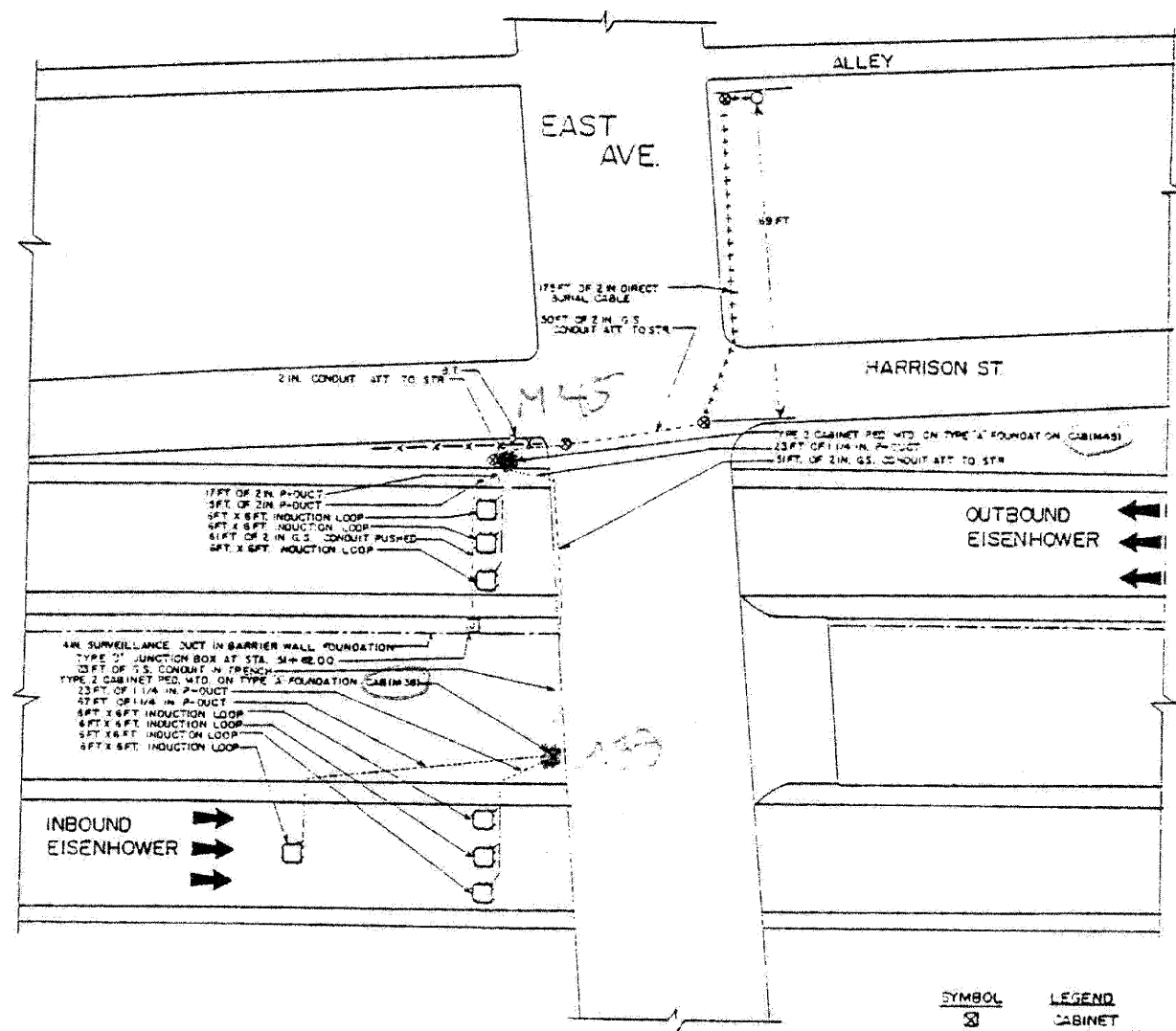
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**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TRAFFIC SURVEILLANCE AUSTIN AVE INSTALLATION (2 OF 2)</b>			
SCALE: N.T.S.	SHEET NO. 3 OF 9 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	176
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				CONTRACT NO. 60K10

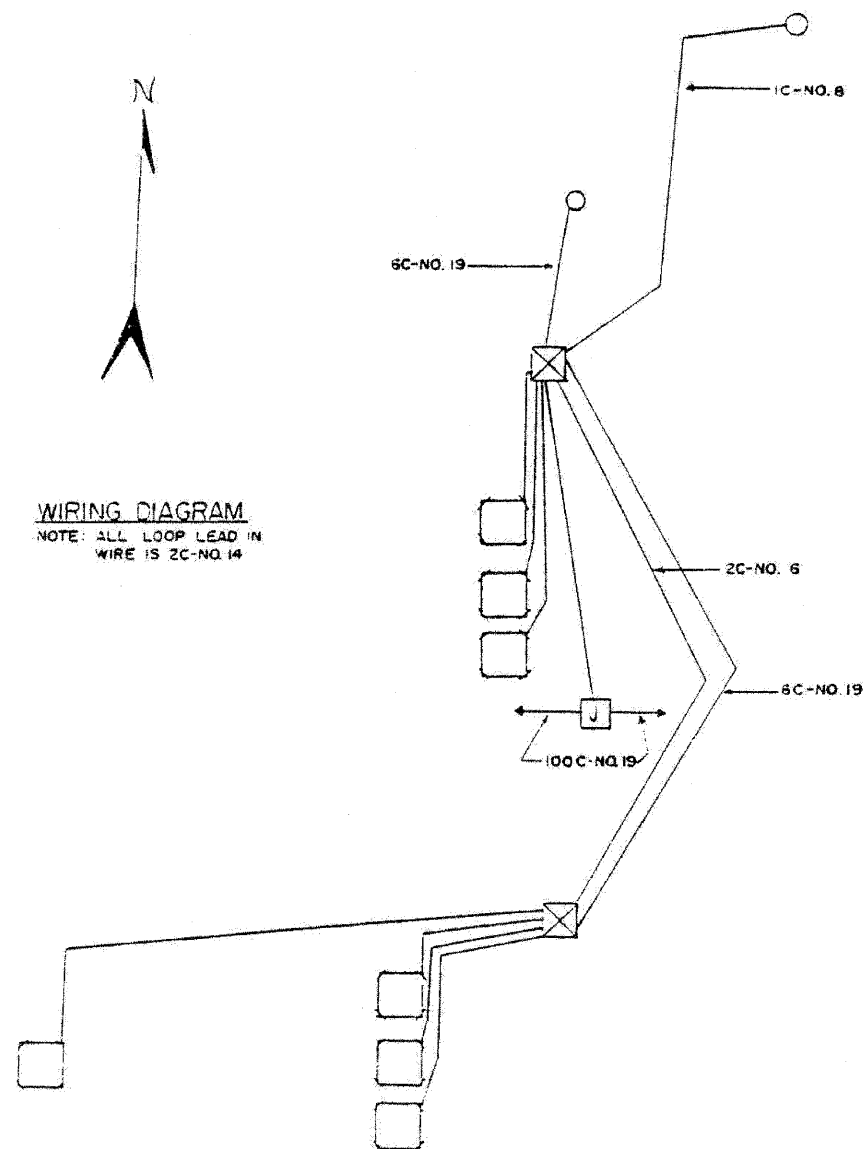


PLAN

SYMBOL	LEGEND
⊠	CABINET
⊙	HANDHOLE
—○—	P-DUCT
○	LOOP
○	SERVICE INSTALLATION
---	G.S. CONDUIT
⊠	JUNCTION BOX
+++++	DIRECT BURIAL CABLE
-X-X-X-	FENCE



WIRING DIAGRAM  
NOTE: ALL LOOP LEAD IN WIRE IS 2C-NO. 14



**NOTE:**

IDOT RECORD PLANS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND EXTENT OF WORK ASSOCIATED WITH REPLACEMENT OF INDUCTION LOOPS, LEAD-IN CABLE AND RELATED WORK.

SUMMARY OF QUANTITIES (THIS SHEET)		
DESCRIPTION	UNIT	QUANTITY
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 4/C, TWISTED, SHIELDED	LF	214
INDUCTION LOOP	LF	266

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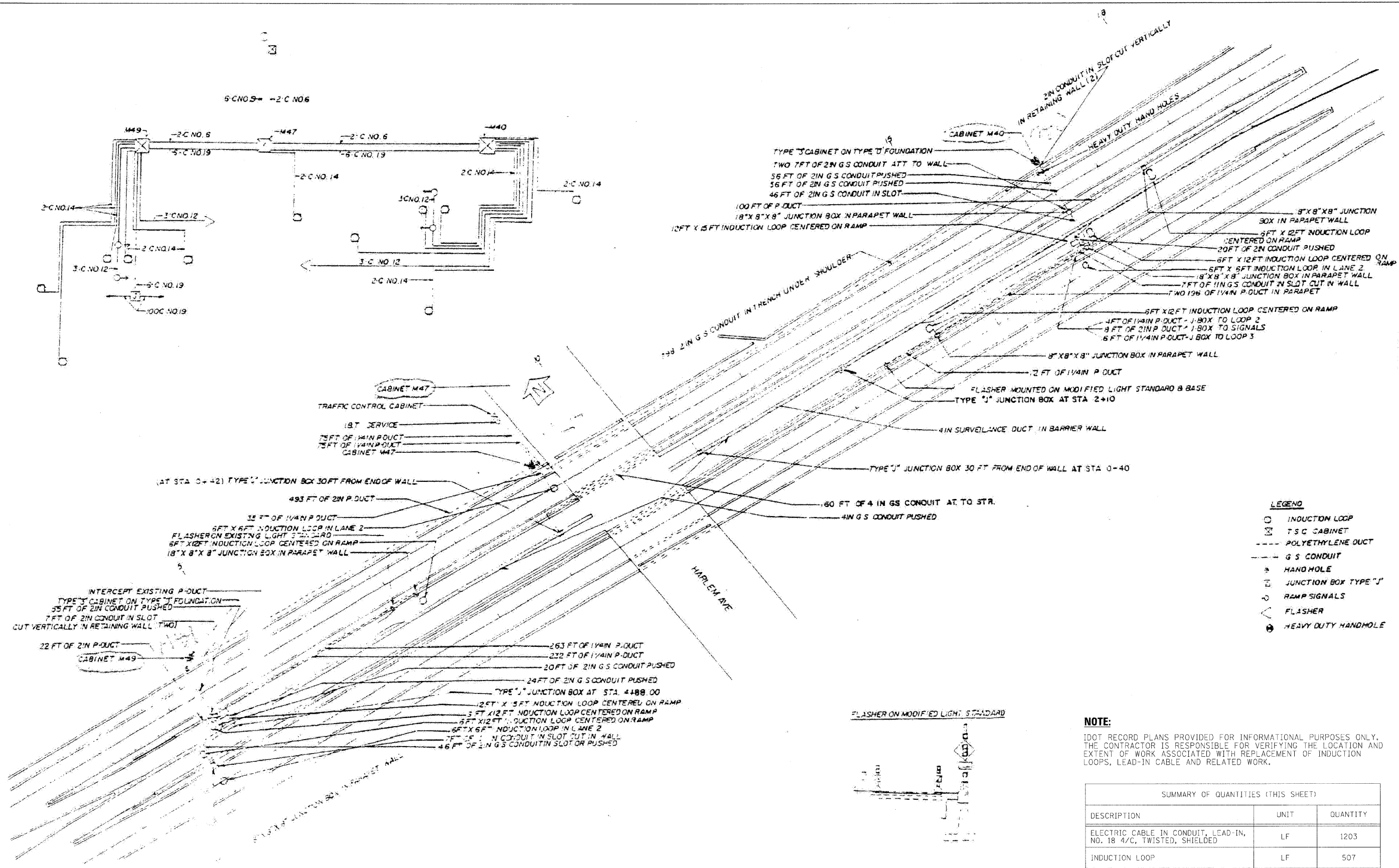
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SURVEILLANCE  
EAST AVE INSTALLATION**

SCALE: N.T.S. SHEET NO. 4 OF 9 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	177
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60K10	



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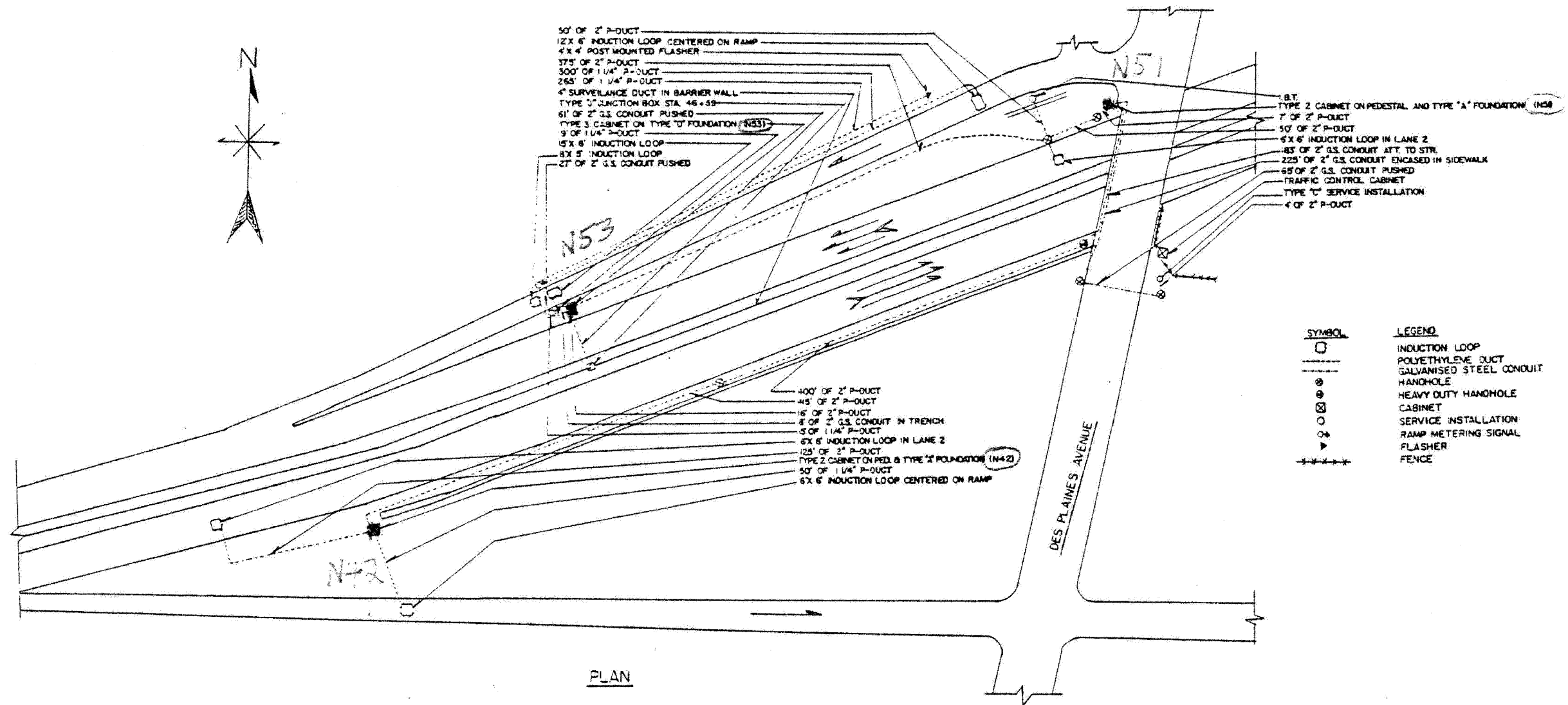
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SURVEILLANCE  
HARLEM AVE INSTALLATION**

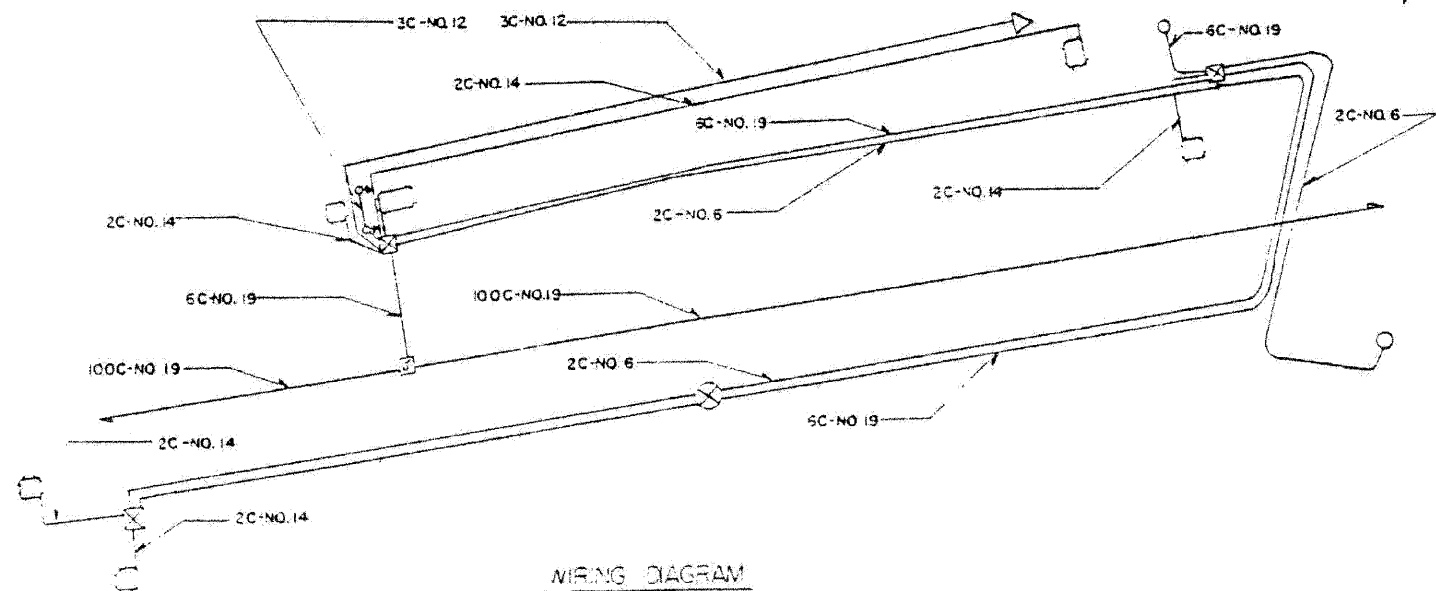
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435RS-6	COOK	215	178
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES (THIS SHEET)		
DESCRIPTION	UNIT	QUANTITY
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 4/C, TWISTED, SHIELDED	LF	1203
INDUCTION LOOP	LF	507



PLAN

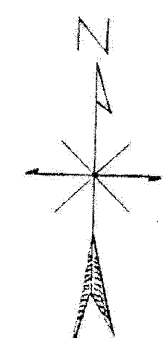
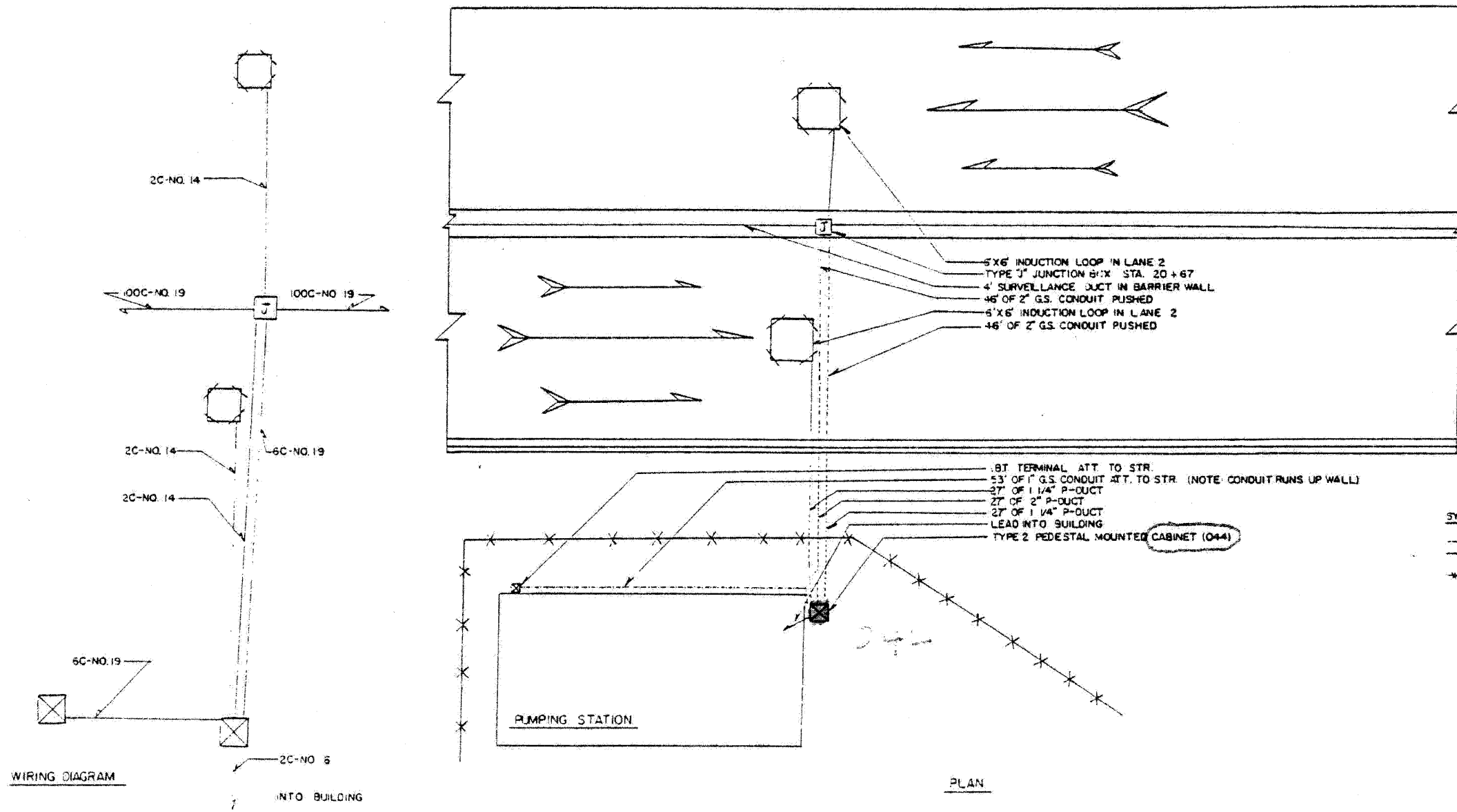


WIRING DIAGRAM

SYMBOL	LEGEND
	INDUCTION LOOP
	POLYETHYLENE DUCT
	GALVANISED STEEL CONDUIT
	HANDHOLE
	HEAVY DUTY HANDHOLE
	CABINET
	SERVICE INSTALLATION
	RAMP METERING SIGNAL
	FLASHER
	FENCE

**NOTE:**  
 IDOT RECORD PLANS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND EXTENT OF WORK ASSOCIATED WITH REPLACEMENT OF INDUCTION LOOPS, LEAD-IN CABLE AND RELATED WORK.

SUMMARY OF QUANTITIES (THIS SHEET)		
DESCRIPTION	UNIT	QUANTITY
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 4/C, TWISTED, SHIELDED	LF	934
INDUCTION LOOP	LF	224



SYMBOL	LEGEND
○	INDUCTION LOOP
—	POLYETHYLENE DUCT
—	GALVANISED STEEL CONDUIT
⊠	CABINET
***	FENCE

**NOTE:**  
 IDOT RECORD PLANS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND EXTENT OF WORK ASSOCIATED WITH REPLACEMENT OF INDUCTION LOOPS, LEAD-IN CABLE AND RELATED WORK.

SUMMARY OF QUANTITIES (THIS SHEET)		
DESCRIPTION	UNIT	QUANTITY
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 4/C, TWISTED, SHIELDED	LF	122
INDUCTION LOOP	LF	76

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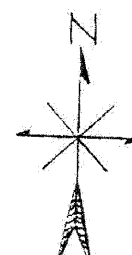
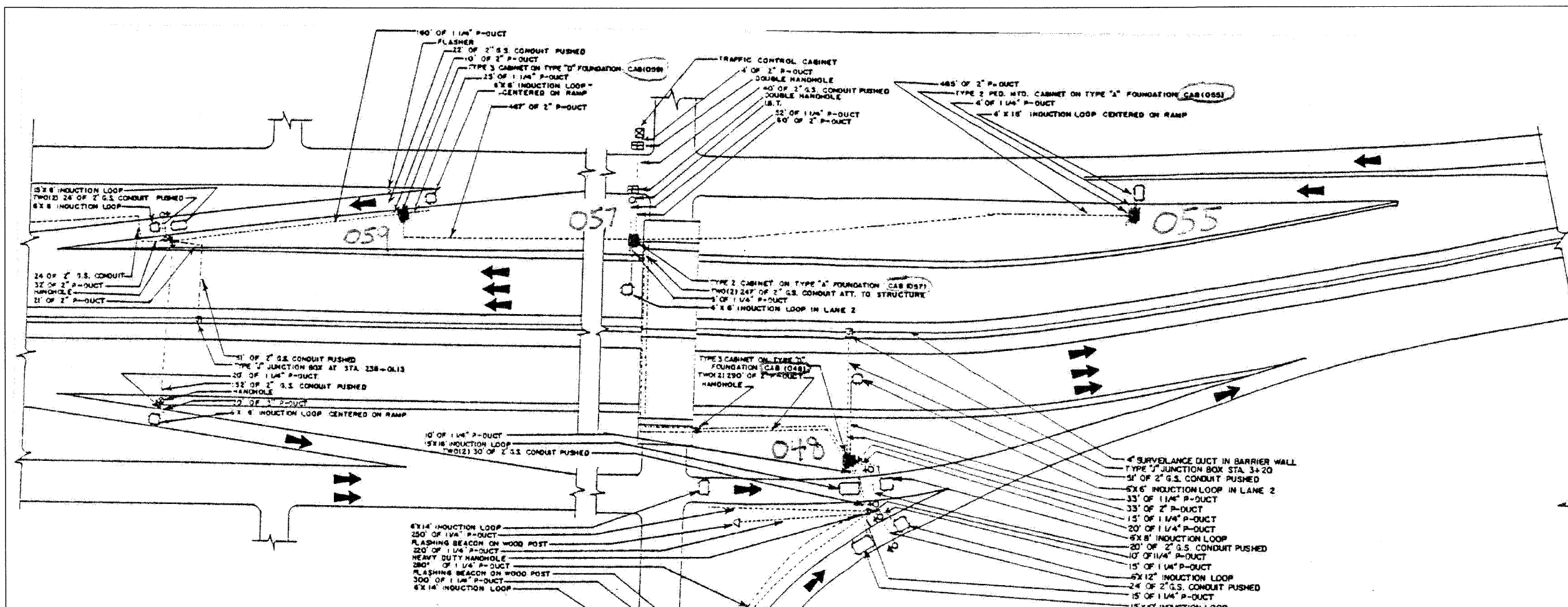
**benesch**

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SURVEILLANCE  
 DES PLAINES RIVER INSTALLATION**  
 SCALE: N.T.S. SHEET NO. 7 OF 9 SHEETS STA. TO STA.

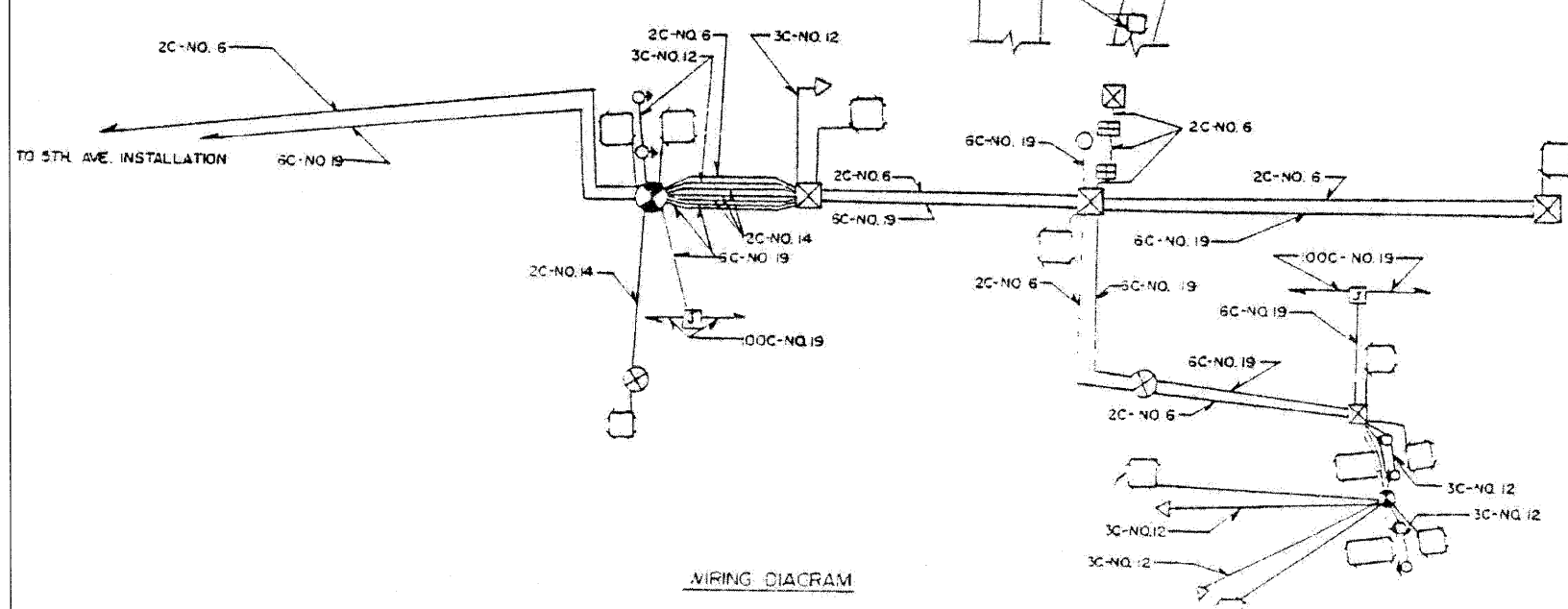
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	180
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60K10	





PLAN

SYMBOL	LEGEND
○	INDUCTION LOOP
—	POLYETHYLENE DUCT
—	GALVANISED STEEL CONDUIT
⊙	HANDHOLE
⊕	HEAVY DUTY HANDHOLE
□	CABINET
○	SERVICE INSTALLATION
⊙	RAMP METERING SIGNAL
⊕	FLASHER
⊕	DOUBLE HANDHOLE



WIRING DIAGRAM

**NOTE:**  
 IDOT RECORD PLANS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND EXTENT OF WORK ASSOCIATED WITH REPLACEMENT OF INDUCTION LOOPS, LEAD-IN CABLE AND RELATED WORK.

SUMMARY OF QUANTITIES (THIS SHEET)		
DESCRIPTION	UNIT	QUANTITY
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 4/C, TWISTED, SHIELDED	LF	1457
INDUCTION LOOP	LF	508

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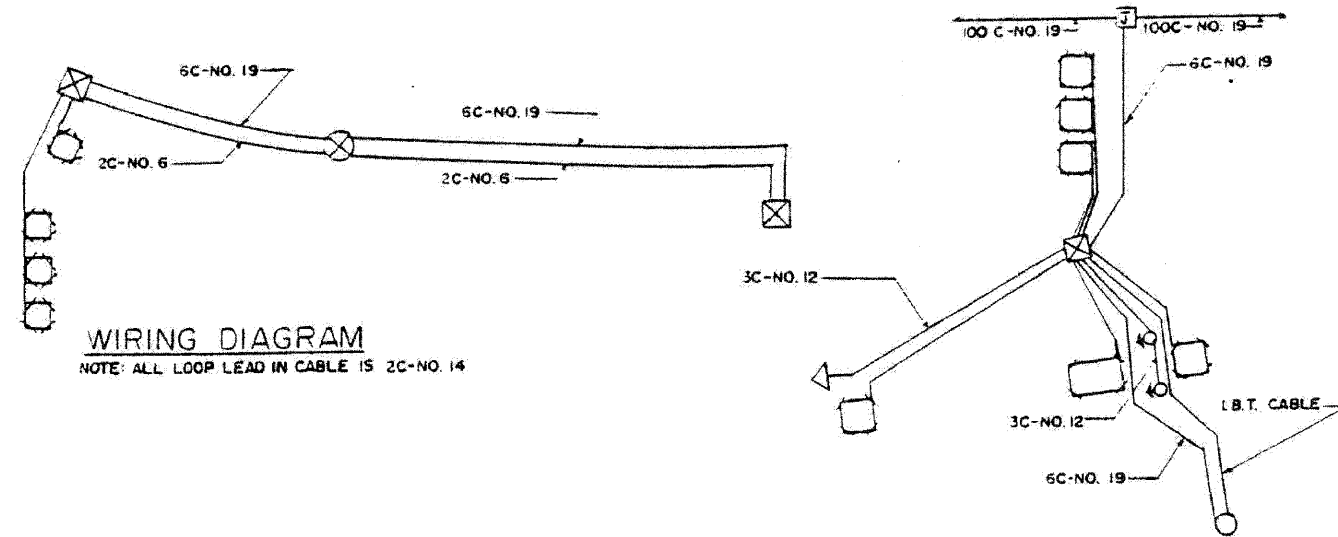
**benesch**

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SURVEILLANCE  
 FIRST AVE INSTALLATION**

SCALE: N.T.S. SHEET NO. 8 OF 9 SHEETS STA. TO STA.

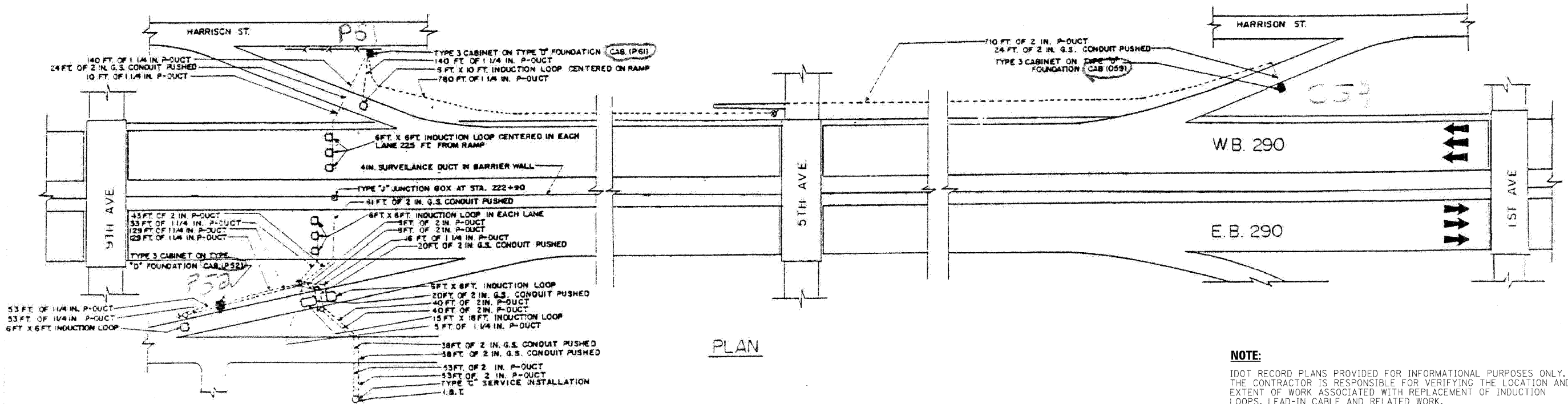
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	181
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	



**WIRING DIAGRAM**

NOTE: ALL LOOP LEAD IN CABLE IS 2C-NO. 14

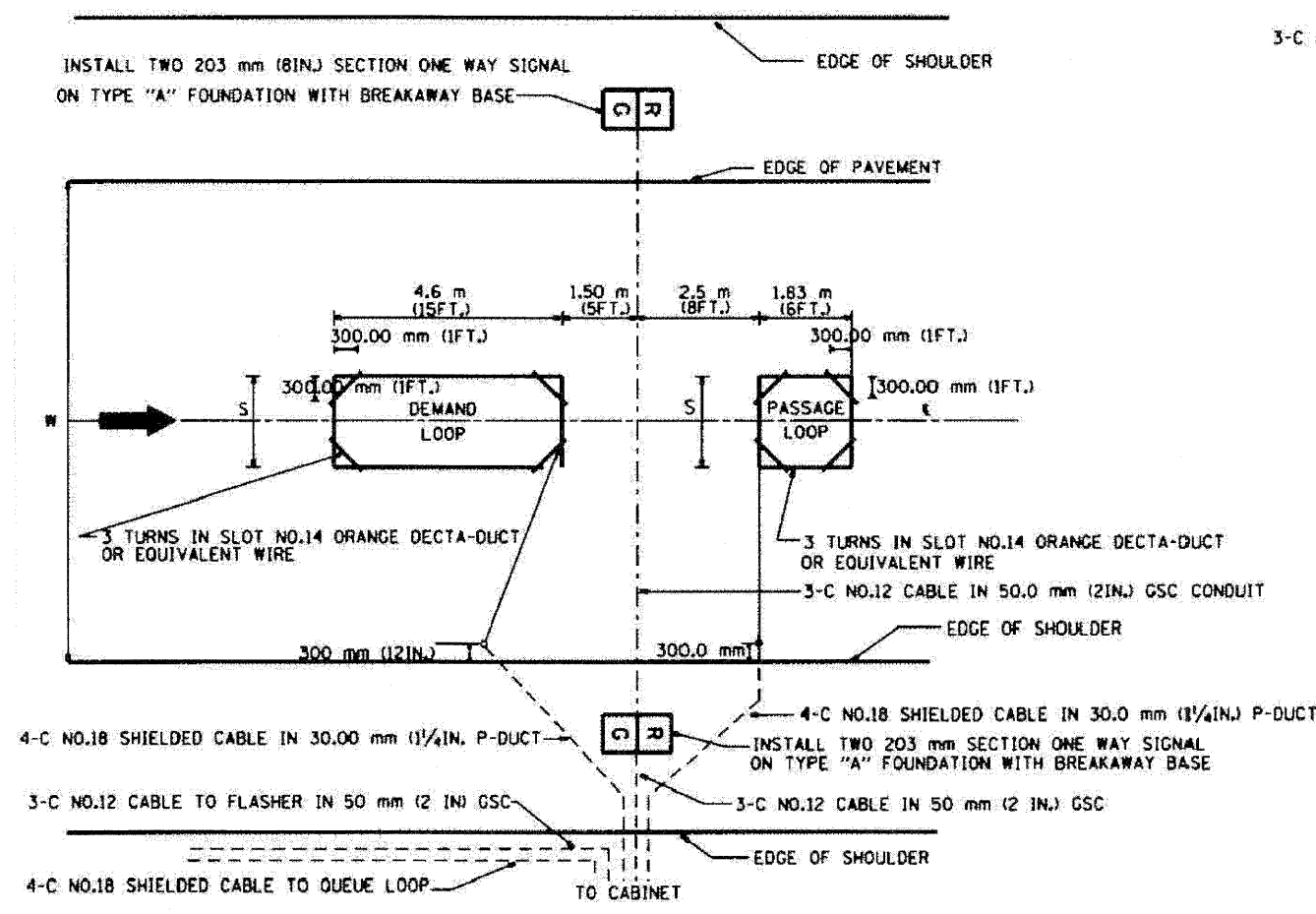
SYMBOL	LEGEND
○	INDUCTION LOOP
—	POLYETHYLENE DUCT
---	G.S. CONDUIT
⊗	HANDHOLE
⊕	HEAVY DUTY HANDHOLE
⊠	CABINET
⊙	SERVICE INSTALLATION
⊚	RAMP SIGNAL
4	FLASHER
-X-X-	FENCE



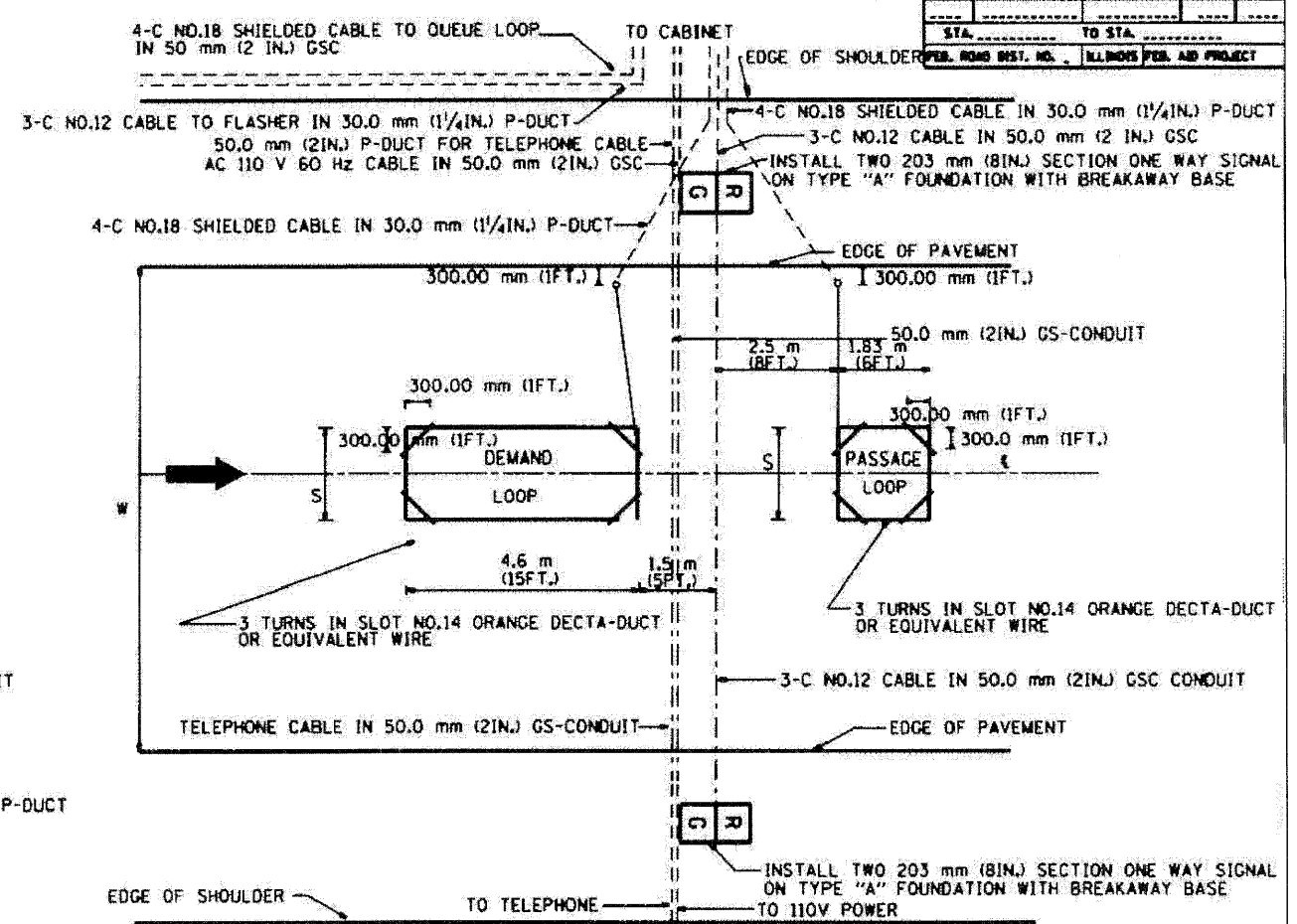
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 IDOT RECORD PLANS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND EXTENT OF WORK ASSOCIATED WITH REPLACEMENT OF INDUCTION LOOPS, LEAD-IN CABLE AND RELATED WORK.

SUMMARY OF QUANTITIES (THIS SHEET)		
DESCRIPTION	UNIT	QUANTITY
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 4/C, TWISTED, SHIELDED	LF	1316
INDUCTION LOOP	LF	378

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	183
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

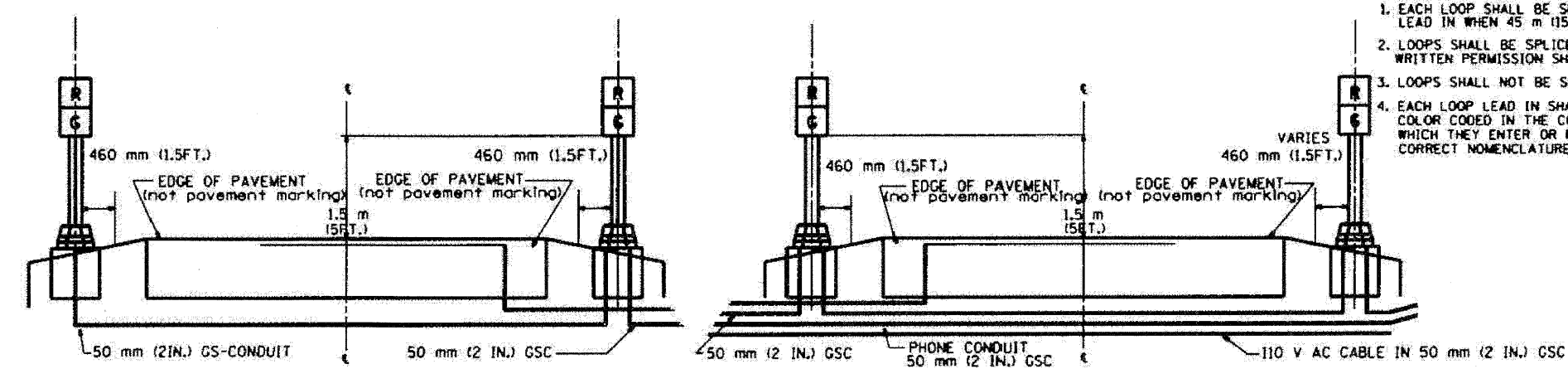


**TYPICAL SIGNAL AND LOOP LAYOUT (TYPE I)**



**TYPICAL SIGNAL AND LOOP LAYOUT (TYPE II)**

NOTE: ALL SIGNALS & FOUNDATIONS SHALL BE FIELD LOCATED FOR ACTUAL SITE AND TRAFFIC CONDITIONS.



**SECTION**

**SECTION**

- NOTES
1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 45 m (150FT.) OR MORE FROM CABINET.
  2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
  3. LOOPS SHALL NOT BE SPLICED IN SERIES.
  4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

WIDTH (W)	WIDTH (S)
3.7 m (12')	2.5 m (8')
4.0 m (13')	2.8 m (9')
4.3 m (14')	3.1 m (10')
4.6 m (15')	3.4 m (11')
4.9 m (16')	3.7 m (12')
5.2 m (17')	4.0 m (13')
5.5 m (18')	4.3 m (14')
5.8 m (19')	4.6 m (15')
6.1 m (20')	4.9 m (16')
6.4 m (21')	5.2 m (17')
6.7 m (22')	5.5 m (18')
7.0 m (23')	5.8 m (19')
7.3 m (24')	6.1 m (20')
7.6 m (25')	6.4 m (21')

REVISION	DATE
R.L.	8/94
T.C.	9/94
R.L.	2/98

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER

**TYPICAL RAMP METERING  
INSTALLATION TYPE I & II  
(FOR RAMP WITHOUT CURBS & GUTTERS)**

SCALE: NONE  
DATE: 6-22-94

DRAWN BY: G.M.  
CHECKED BY: R.L.

**TRAFFIC SYSTEMS CENTER (TY-1TSC-400\*)**

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PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

**benesch**

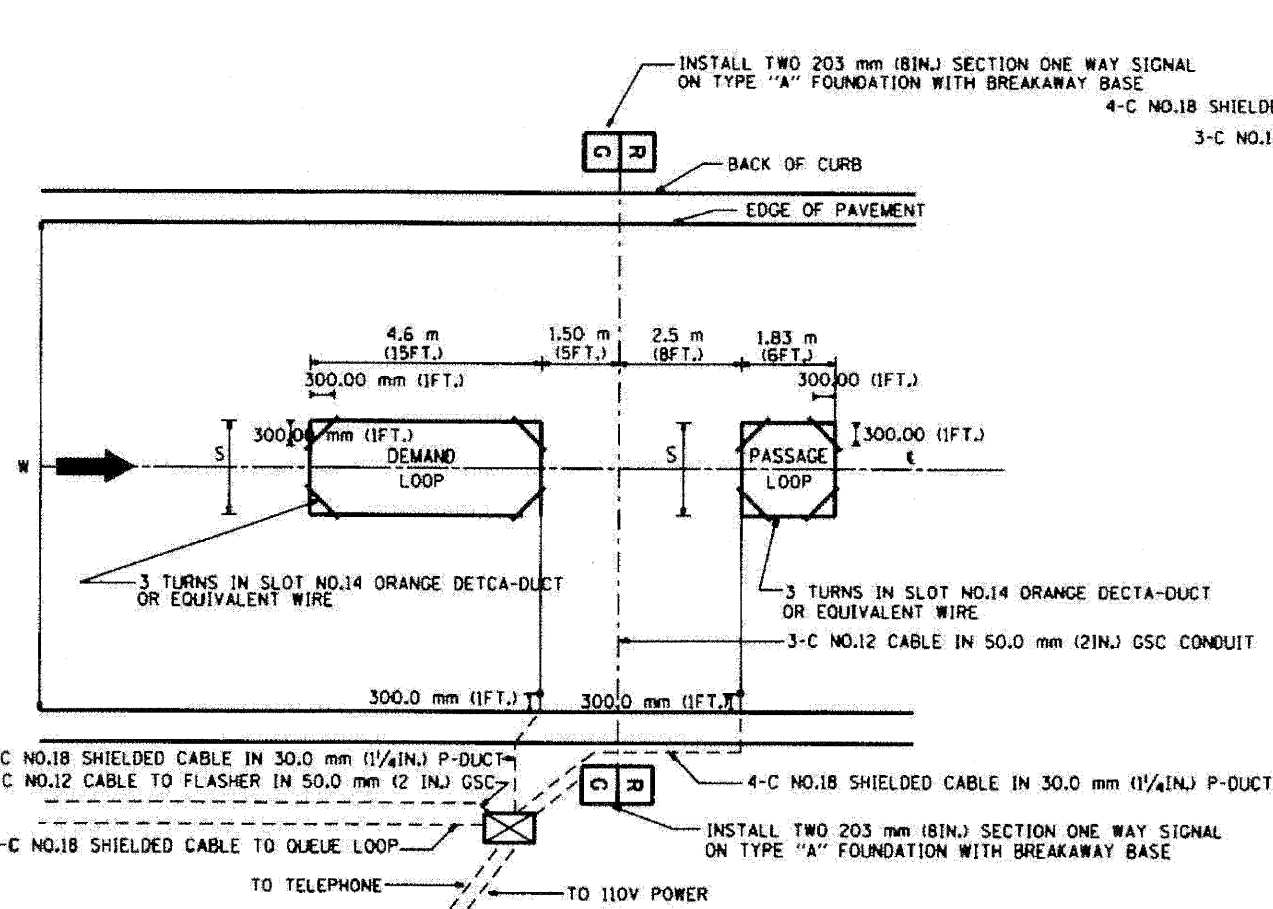
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SYSTEMS CENTER  
DETAIL SHEETS**

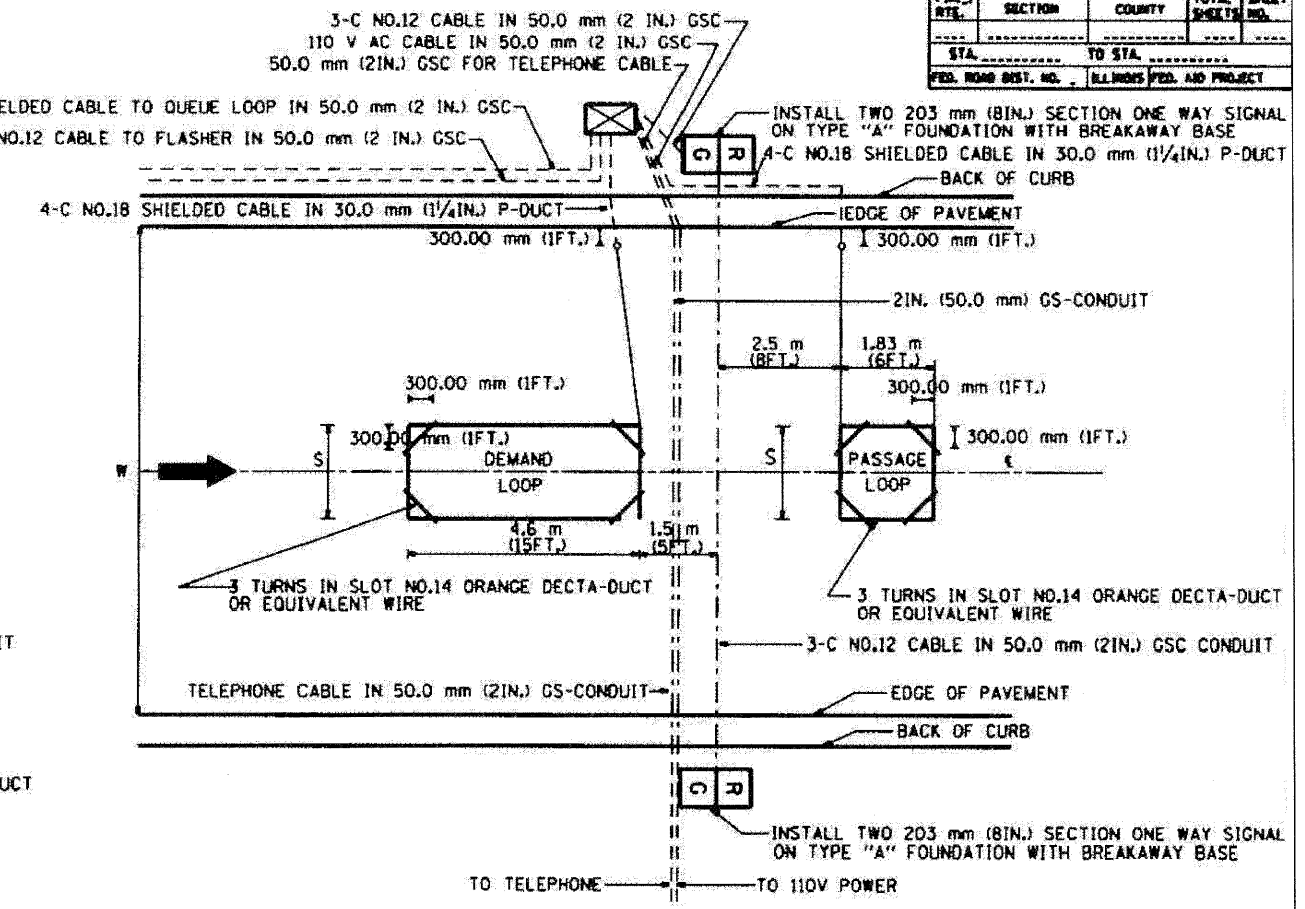
SCALE: N.T.S. SHEET NO. 1 OF 17 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	183
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 60K10		

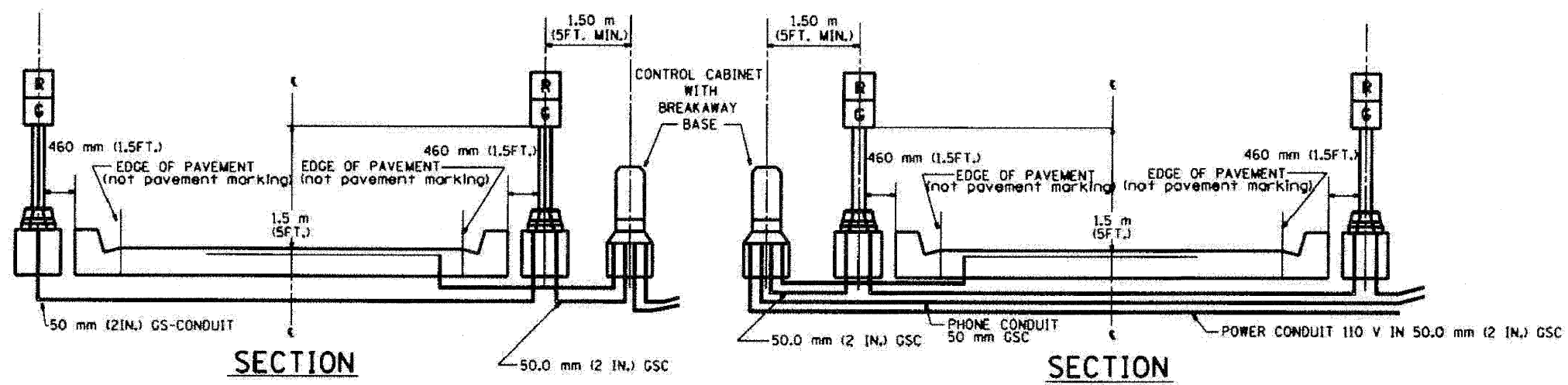
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	184



TYPICAL SIGNAL AND LOOP LAYOUT (TYPE I)



TYPICAL SIGNAL AND LOOP LAYOUT (TYPE II)



WIDTH (W)	WIDTH (S)
3.7 m (12')	2.5 m (8')
4.0 m (13')	2.8 m (9')
4.3 m (14')	3.1 m (10')
4.6 m (15')	3.4 m (11')
4.9 m (16')	3.7 m (12')
5.2 m (17')	4.0 m (13')
5.5 m (18')	4.3 m (14')
5.8 m (19')	4.6 m (15')
6.1 m (20')	4.9 m (16')
6.4 m (21')	5.2 m (17')
6.7 m (22')	5.5 m (18')
7.0 m (23')	5.8 m (19')
7.3 m (24')	6.1 m (20')
7.6 m (25')	6.4 m (21')

- NOTES
1. EACH LOOP SHALL BE SPliced TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150FT. (45 m) OR MORE FROM CABINET.
  2. LOOPS SHALL BE SPliced IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
  3. LOOPS SHALL NOT BE SPliced IN SERIES.
  4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

REVISION	DATE
RL	6/94
T.C.	3/98
RL	2/98

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER  
**TYPICAL RAMP METERING  
INSTALLATION TYPE I & II  
(WITH CURB & GUTTER)**

SCALE: VERT. NONE  
HORIZ. NONE  
DATE: 6-22-94  
DRAWN BY: G.J.K.  
CHECKED BY: R.L.

**TRAFFIC SYSTEMS CENTER (TY-ITSC-400#2)**

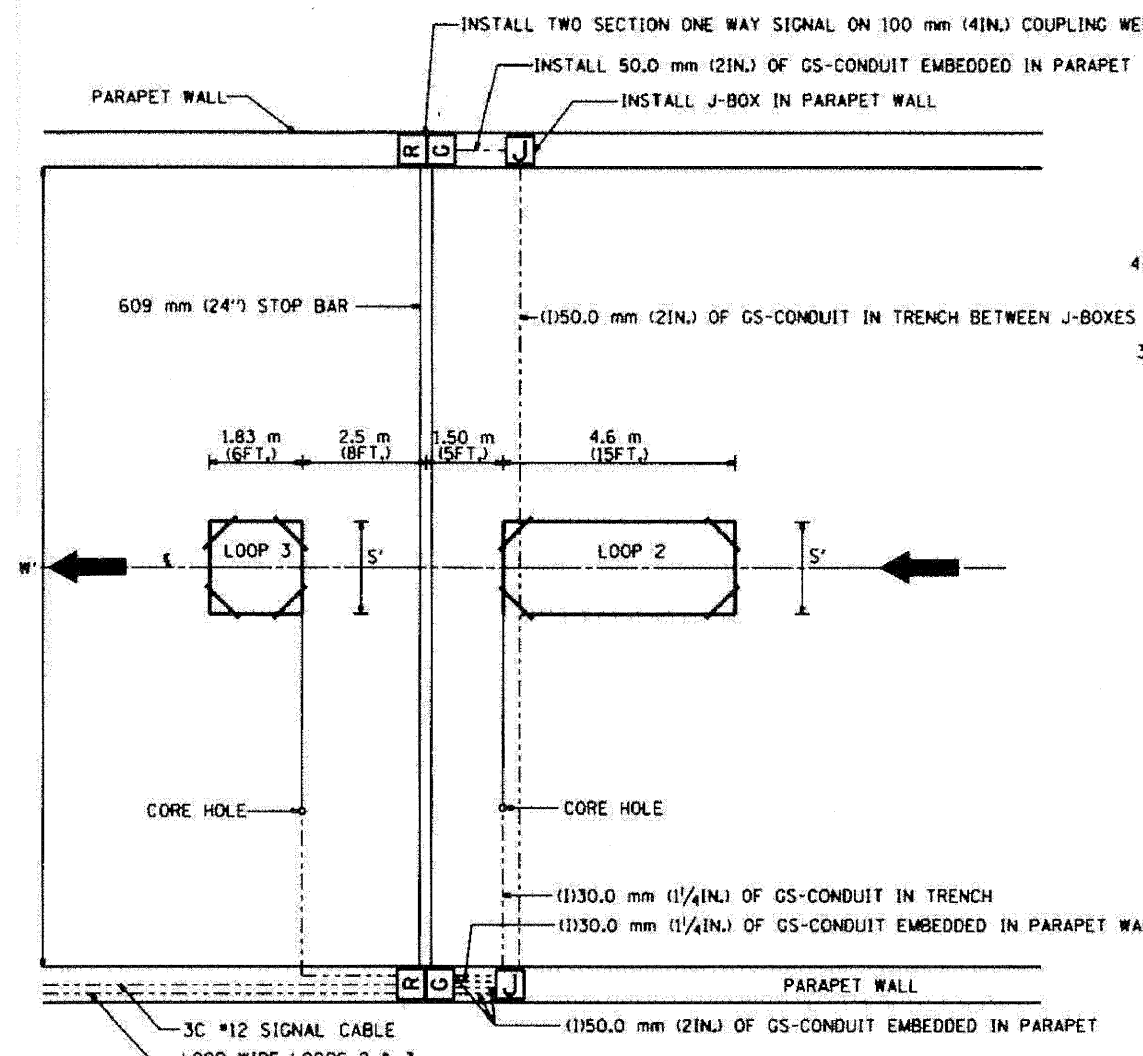
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USER NAME = tblank	CHECKED - MPM	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

**benesch**

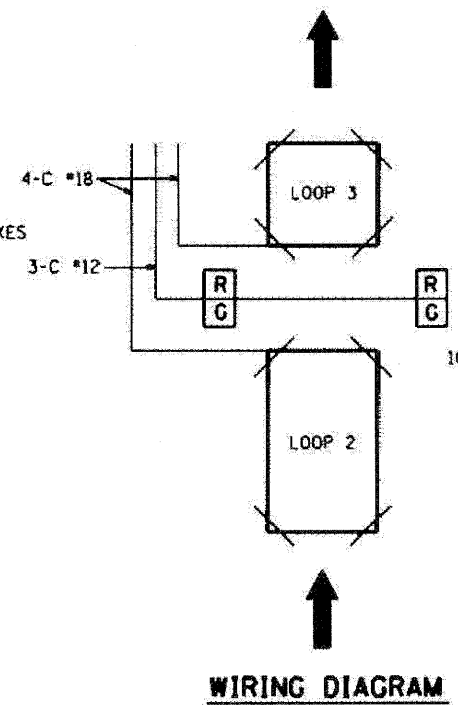
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SYSTEMS CENTER  
DETAIL SHEETS

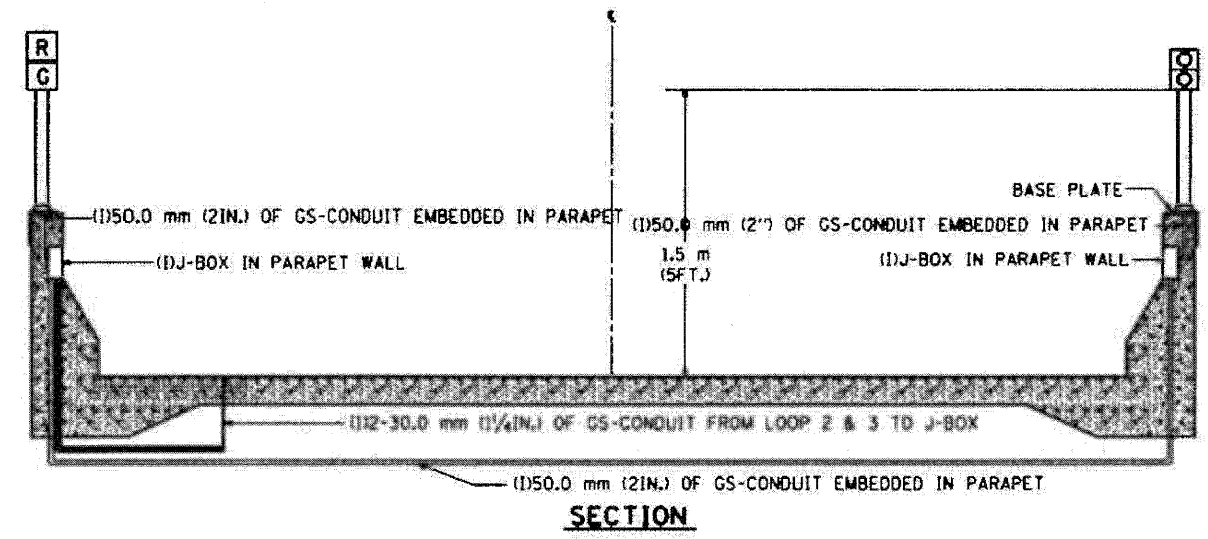
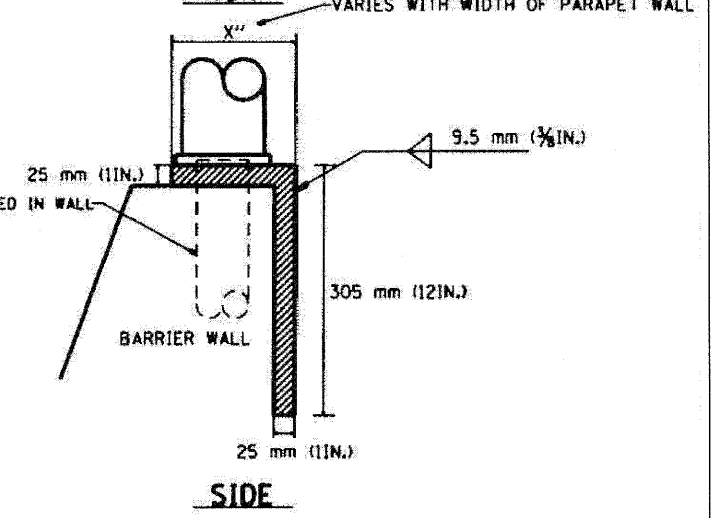
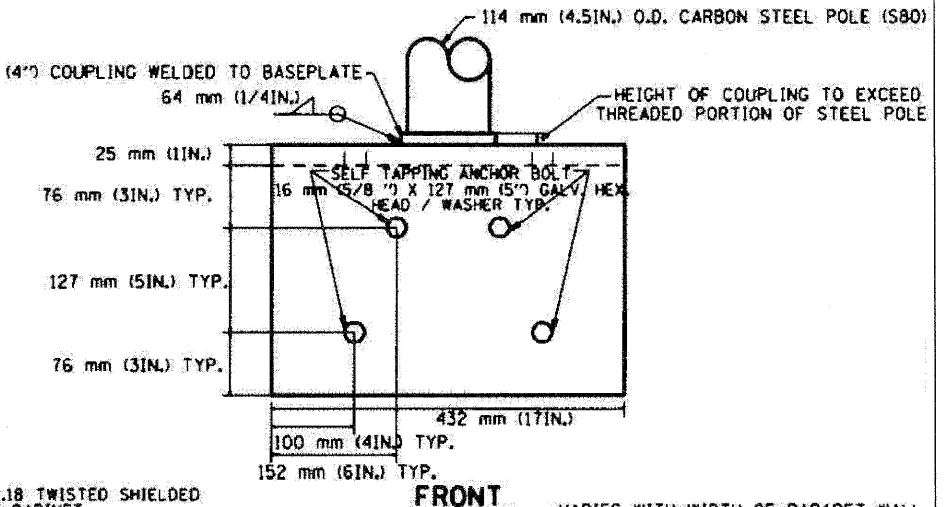
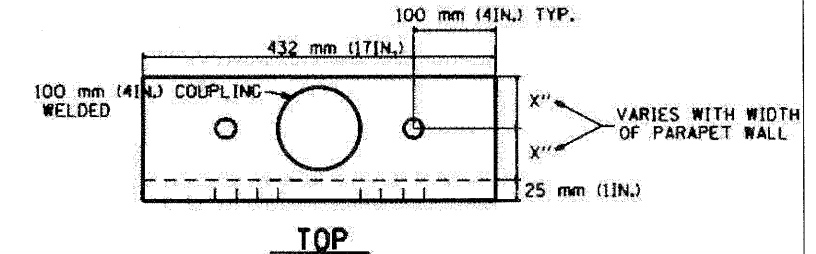
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(313), ETC., 3435RS-6	COOK	215	185
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		



**TYPICAL LOOP LAYOUT**



- NOTES**
1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 45 m (150FT.) OR MORE FROM CABINET.
  2. LOOPS SHALL BE SPLICED IN HANDHOLES OR J-BOX ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
  3. LOOPS SHALL NOT BE SPLICED IN SERIES.
  4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.



**TABLE 1**

WIDTH (W)	WIDTH (S)
3.7 m (12')	2.5 m (8')
4.0 m (13')	2.8 m (9')
4.3 m (14')	3.1 m (10')
4.6 m (15')	3.4 m (11')
4.9 m (16')	3.7 m (12')
5.2 m (17')	4.0 m (13')
5.5 m (18')	4.3 m (14')
5.8 m (19')	4.6 m (15')
6.1 m (20')	4.9 m (16')
6.4 m (21')	5.2 m (17')
6.7 m (22')	5.5 m (18')
7.0 m (23')	5.8 m (19')
7.3 m (24')	6.1 m (20')
7.6 m (25')	6.4 m (21')

**REVISIONS**

NO.	DATE	DESCRIPTION
1.	6/94	
2.	2/96	
3.	3/96	
4.	2/98	

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER  
**TYPICAL RAMP METERING  
TYPE 3 BARRIER WALL  
INSTALLATION**

SCALE: VERT. NONE  
HORIZ. 1/8"=1'

DATE: 6-22-94

DRAWN BY: G.M.  
CHECKED BY: R.L.

**TRAFFIC SYSTEMS CENTER (TY-1TSC-400#3)**

FILE NAME -	DESIGNED - GHT	REVISED -
...ppr1n_ABC.C2.TS.DET_03.dgn	DRAWN - TMB	REVISED -
USER NAME - tblank	CHECKED - MPM	REVISED -
PLOT DATE - 1/25/2010	DATE - 1/25/10	REVISED -

**benesch**

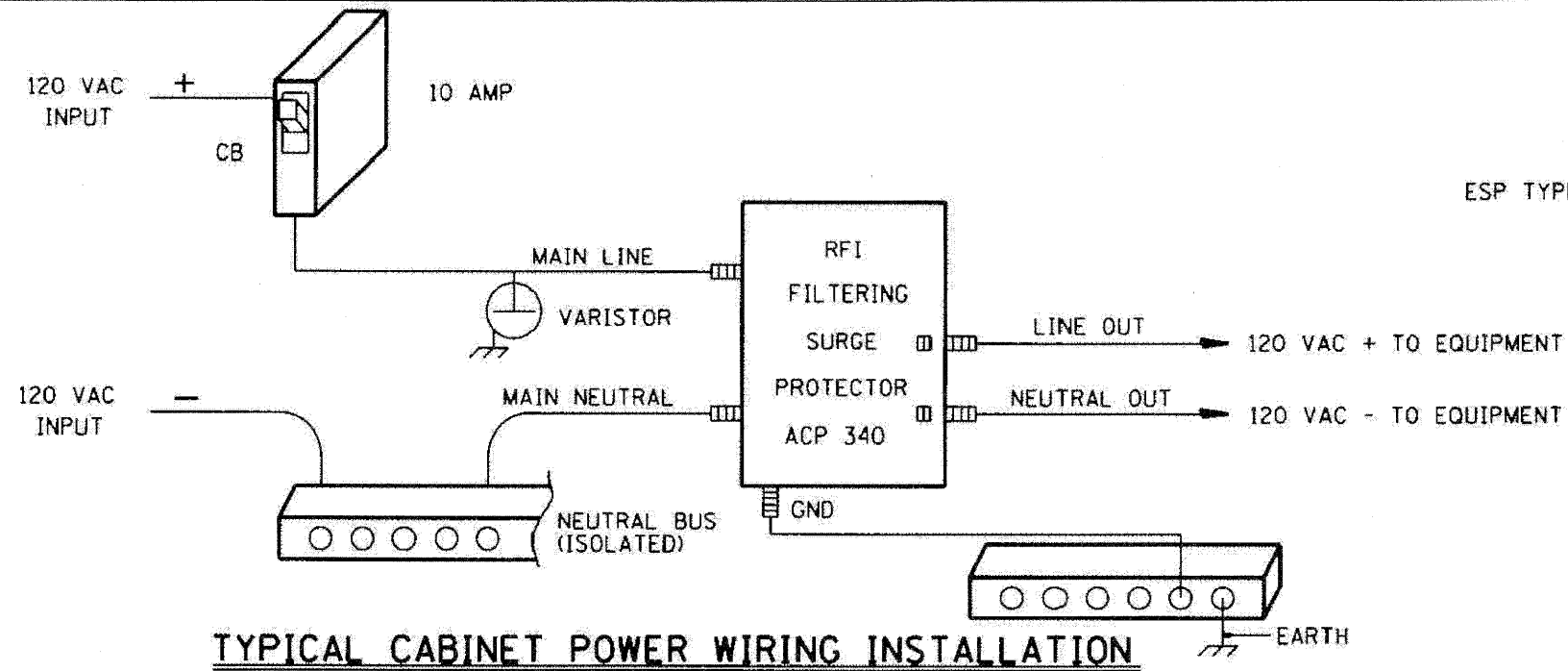
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SYSTEMS CENTER  
DETAIL SHEETS**

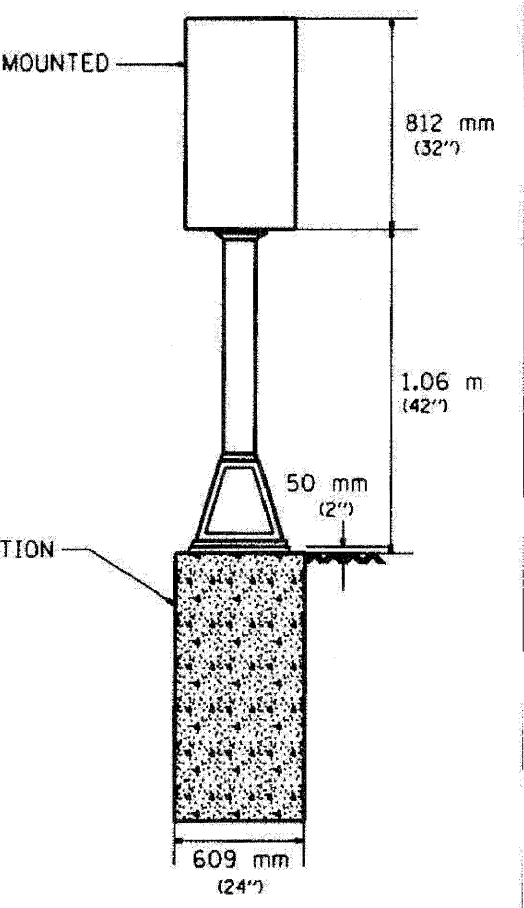
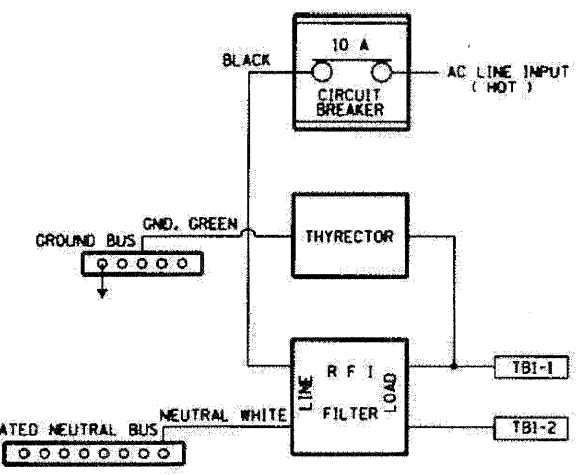
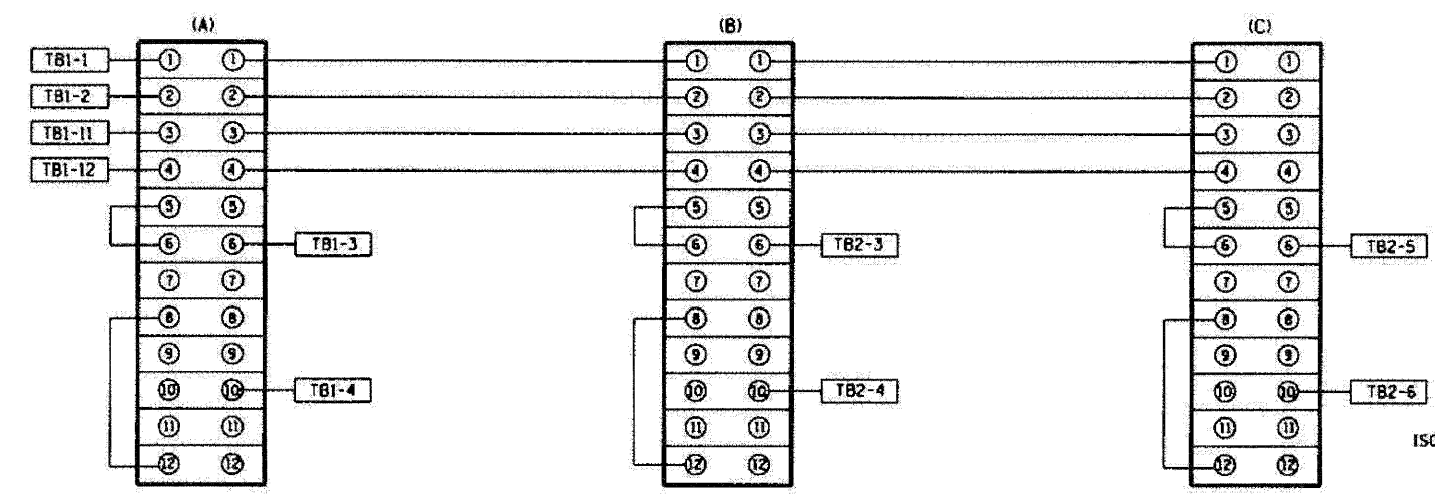
SCALE: N.T.S. SHEET NO. 3 OF 17 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(313), ETC., 3435RS-6	COOK	215	185
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 60K10		

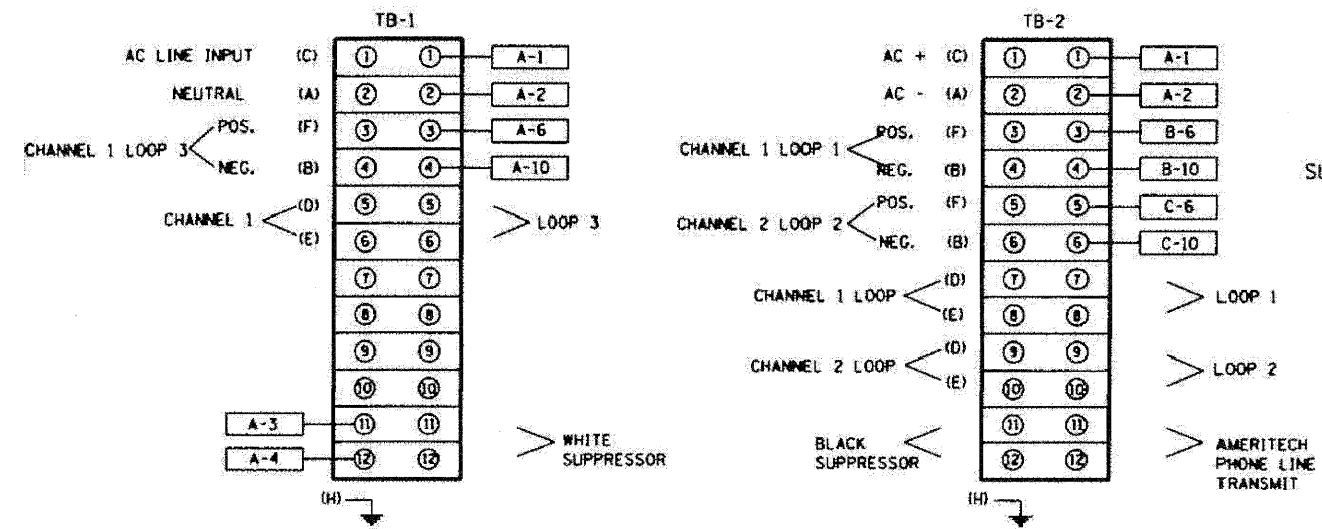
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



**TYPICAL CABINET POWER WIRING INSTALLATION**



**TYPE 2 CABINET INSTALLATION**



REVISION	DATE
T.C.	5/94
R.L.	3/95
R.L.	10/96
T.C.	5/98
R.L.	3/99
R.L.	1/99

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER  
**TYPE II CABINET WIRING**  
SCALE: NONE  
DATE: 4-21-94  
DRAWN BY: G.M.  
CHECKED BY: T.C.

**TRAFFIC SYSTEMS CENTER (TY-1TSC-400\*5)**

FILE NAME =	DESIGNED - GHT	REVISED -
USER NAME = tblank	DRAWN - TMB	REVISED -
PLLOT DATE = 1/25/2010	CHECKED - MPM	REVISED -
	DATE - 1/25/10	REVISED -

**benesch**

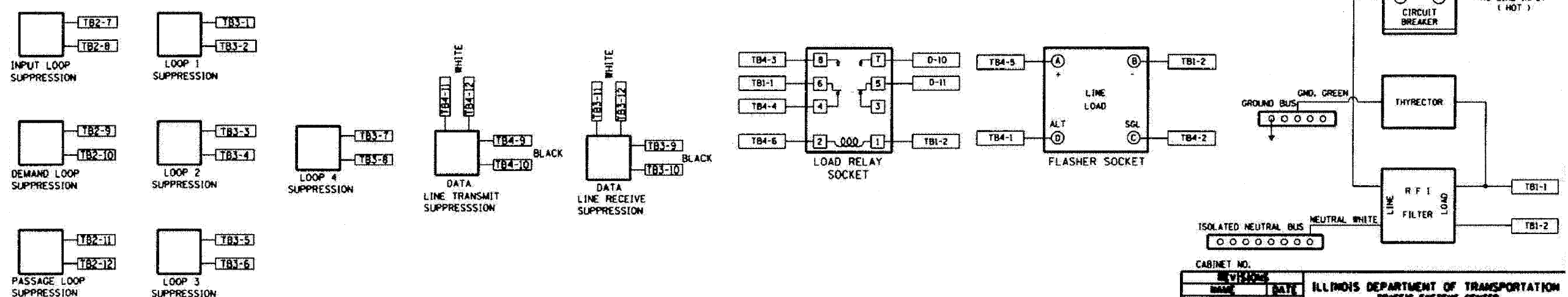
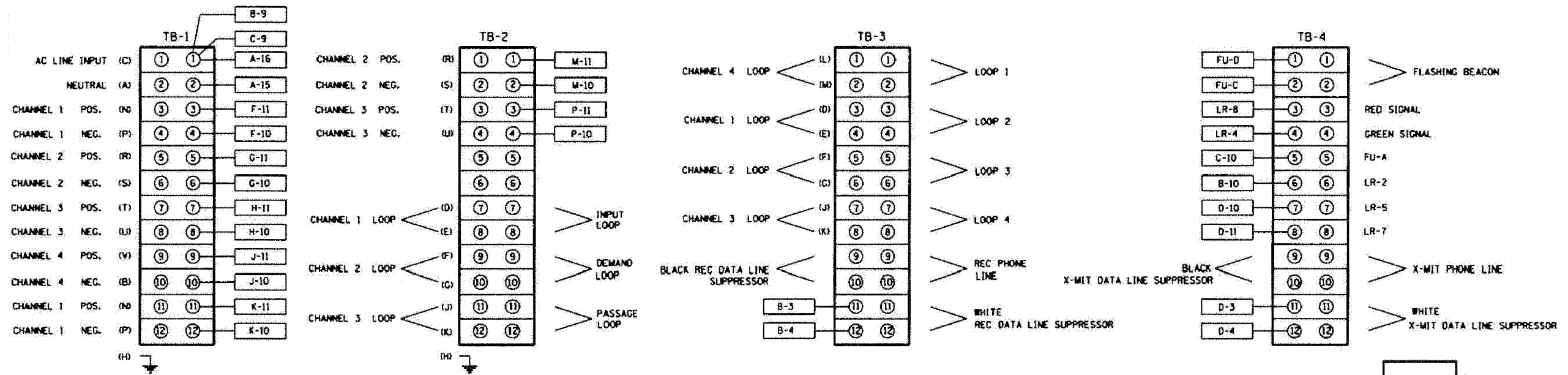
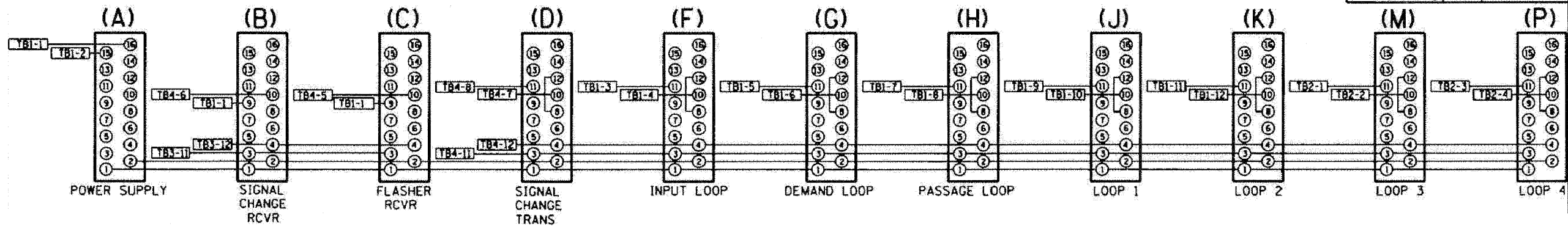
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SYSTEMS CENTER DETAIL SHEETS	
SCALE: N.T.S.	SHEET NO. 4 OF 17 SHEETS
STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	186
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

# BACK VIEW OF TONE RACK

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



CABINET NO.	REVISED	DATE	BY
ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER			
<b>METERING CABINET WIRING DIAGRAM</b>			
SCALE: VERT. NONE HORIZ.	DATE: 6/21/94	DRAWN BY: C.K.	CHECKED BY: T.C.

## TRAFFIC SYSTEMS CENTER (TY-1TSC-400#8)

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PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

**benesch**

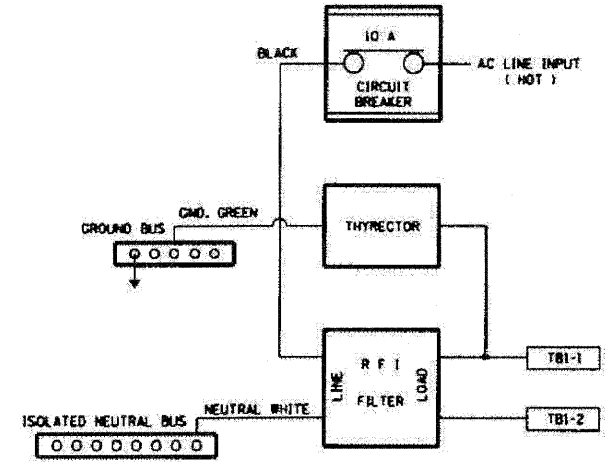
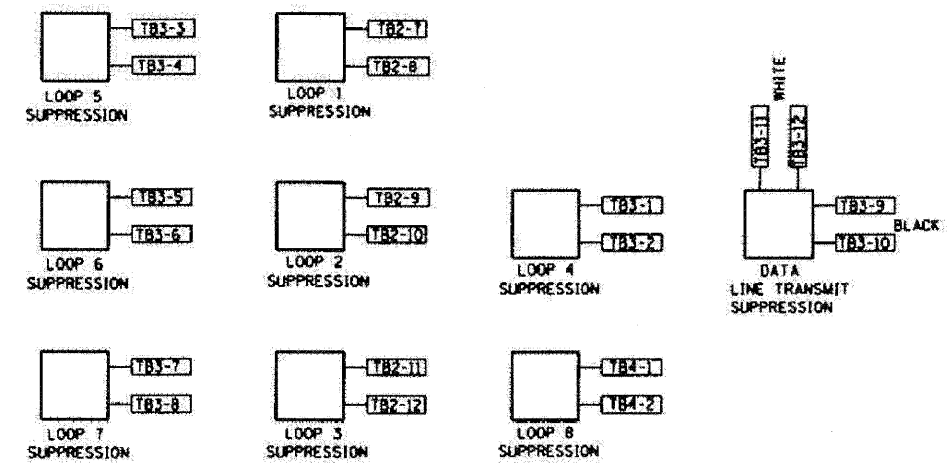
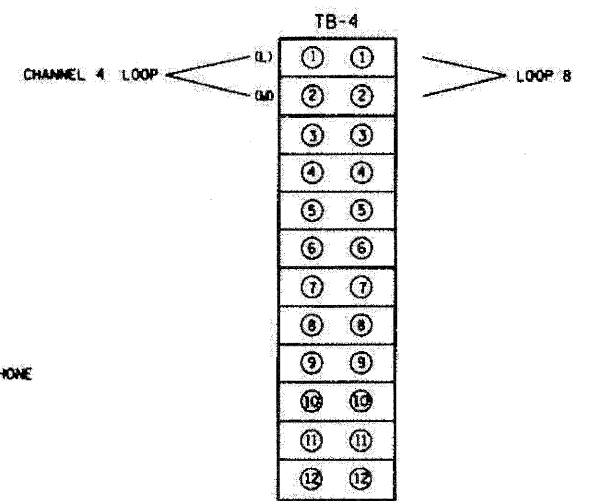
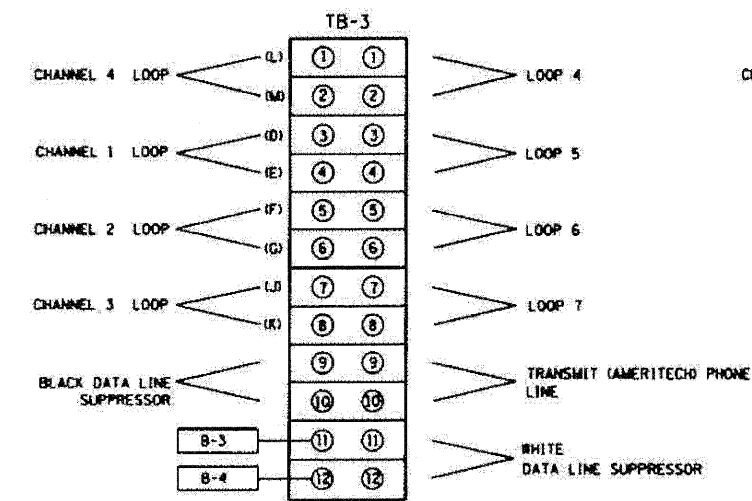
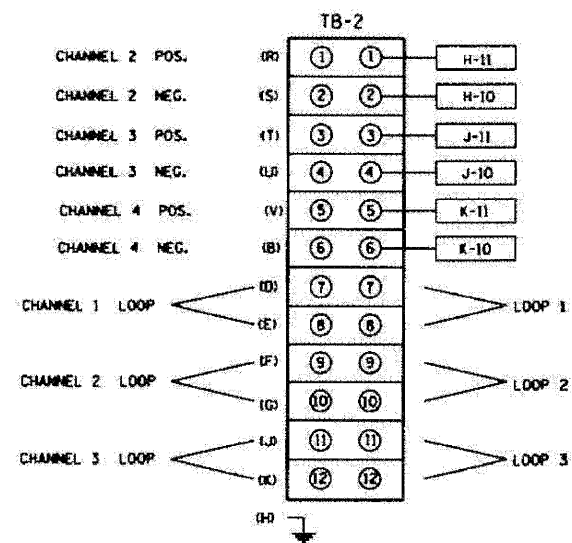
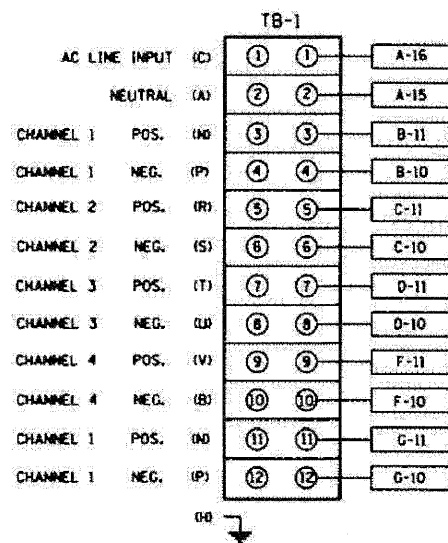
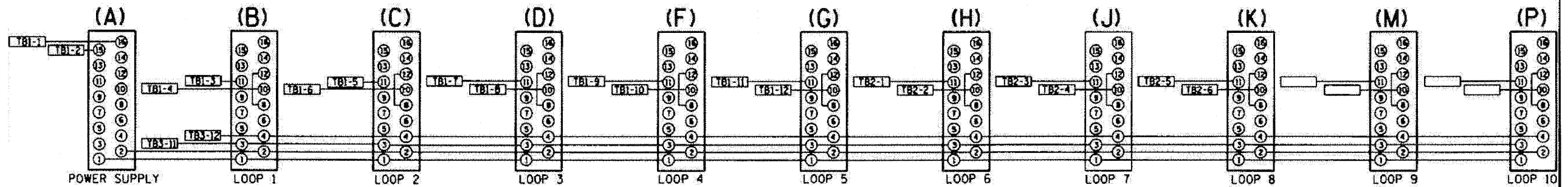
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SYSTEMS CENTER DETAIL SHEETS		
SCALE: N.T.S.	SHEET NO. 5 OF 17 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(313), ETC., 3435/RS-6	COOK	215	187
CONTRACT NO. 60K10				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA. ....	TO STA. ....			
FED. ROAD DIST. NO. .	ILLINOIS FED. AID PROJECT			

BACK VIEW OF TONE RACK



CABINET NO.		ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER <b>TYPE 3 CABINET WIRING DIAGRAM</b> SCALE: VERT. NONE DATE 10/17/05 DRAWN BY G.M. CHECKED BY R.L.
REVISION	DATE	

TRAFFIC SYSTEMS CENTER (TY-1TSC-400#13)

FILE NAME -	DESIGNED - GHT	REVISED -
USER NAME - tblank	DRAWN - TMB	REVISED -
PLOT DATE - 1/25/2010	CHECKED - MPM	REVISED -
	DATE - 1/25/10	REVISED -

**benesch**

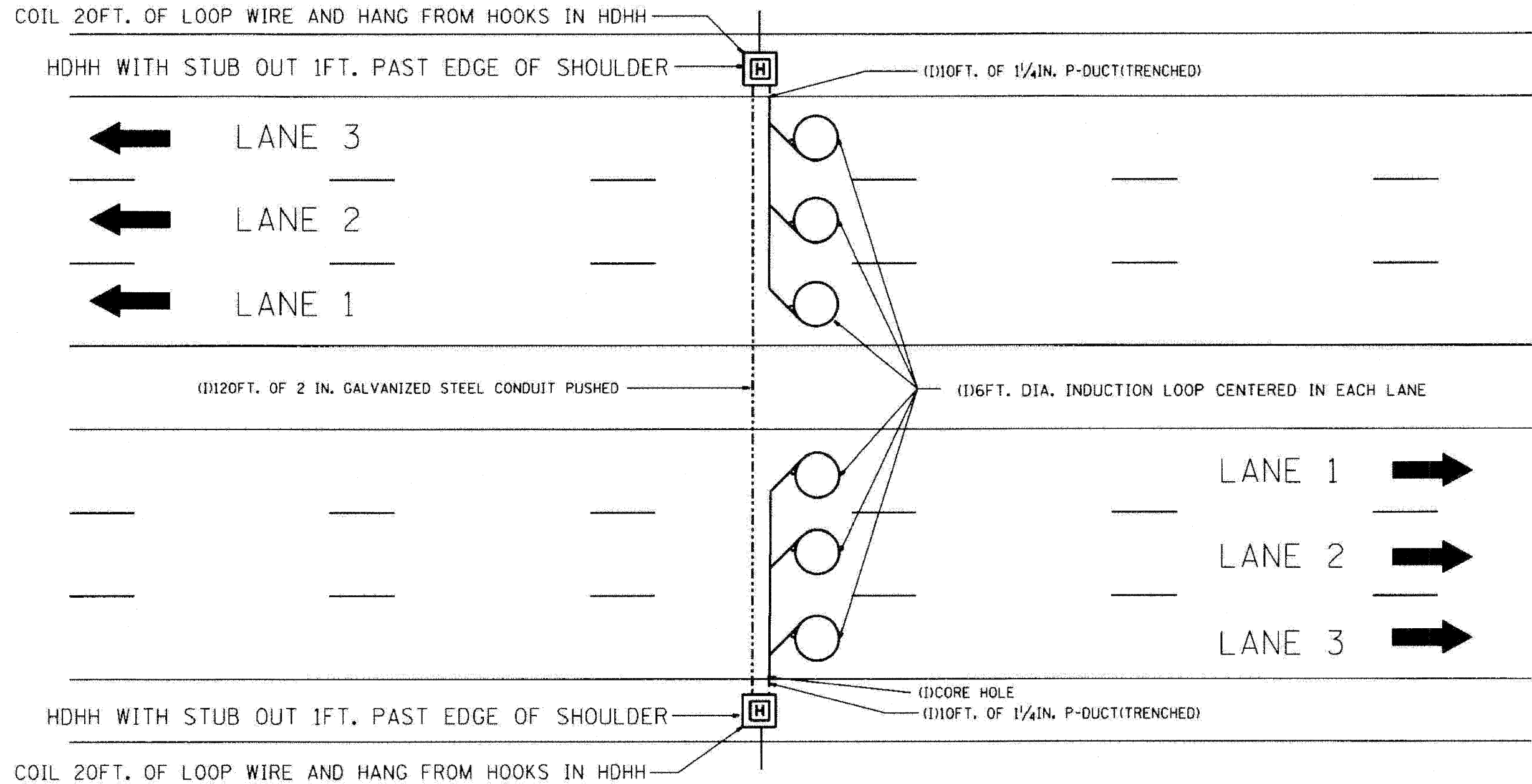
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SYSTEMS CENTER DETAIL SHEETS		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: N.T.S.	SHEET NO. 6 OF 17 SHEETS	290	(313, ETC., 3435)RS-6	COOK	215	188
		STA. TO STA.		CONTRACT NO. 60K10		
		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		





F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**NOTE:**  
 THE COST OF LOOP WIRE IN HDHH IS INCIDENTAL TO THE INDUCTION LOOP.  
 IT SHALL NOT BE MEASURE FOR PAYMENT.

INSTALL AT STATIONS.

REVISED		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE	3 LANE COUNT STATION	
		SCALE: VERT. NONE	DRAWN BY: G.M.
		HORIZ.	CHECKED BY: J.C.
		DATE: 01-31-07	

**TRAFFIC SYSTEMS CENTER (TY-1TSC-400\*32)**

FILE NAME =	DESIGNED - GHT	REVISED -
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PLOT DATE = 1/25/2008	DATE = 1/25/10	REVISED -

**benesch**

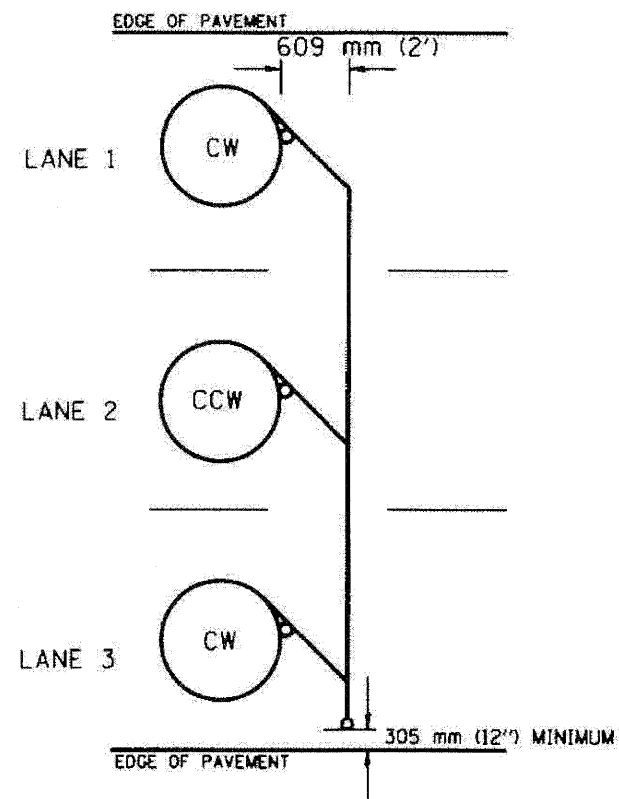
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SYSTEMS CENTER  
 DETAIL SHEETS

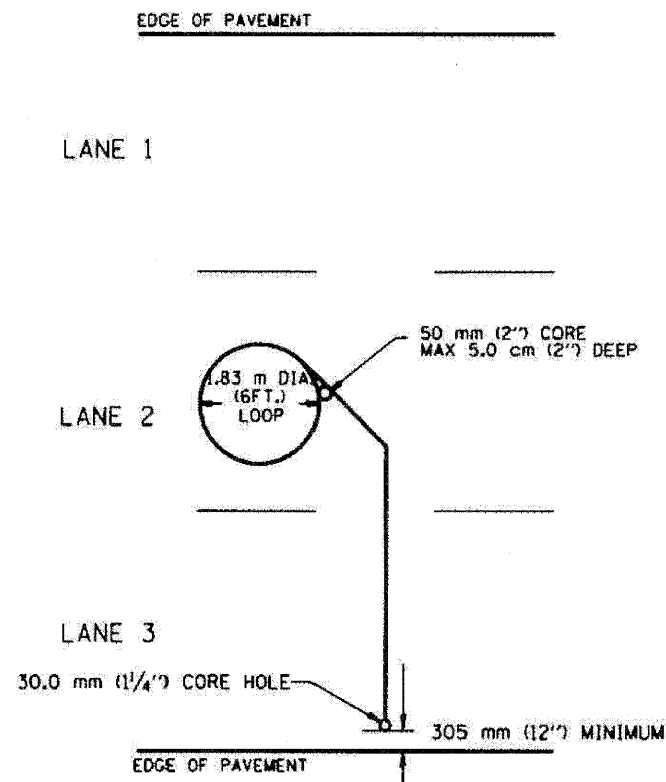
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(313), ETC., 3435RS-6	COOK	215	190
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

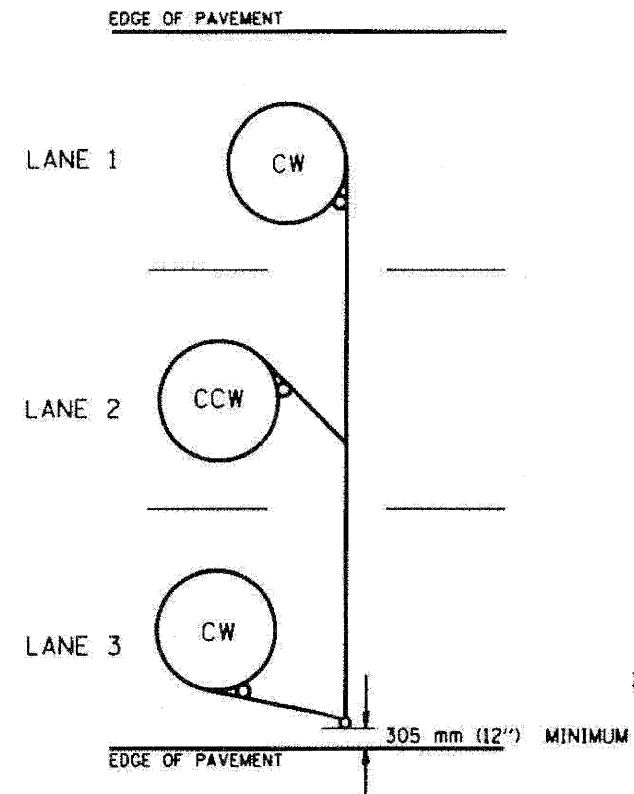
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



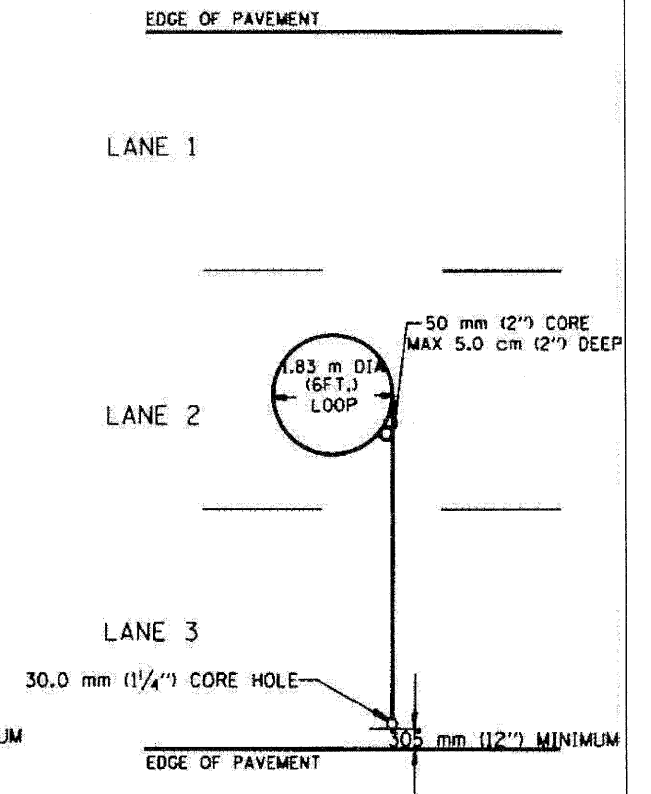
**TYPICAL 1.83 m (6FT.) DIA. INDUCTION LOOP CORE DRILL LAYOUT FOR MULTIPLE LANE ROADWAY**



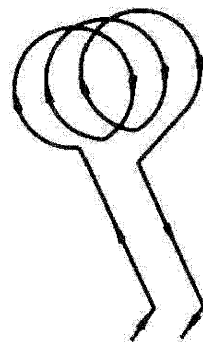
**TYPICAL 1.83 m (6') DIA. INDUCTION LOOP LAYOUT FOR LANE 2**



**TYPICAL 1.83 m (6') DIA. INDUCTION LOOP CORE DRILL LAYOUT FOR MULTIPLE LANE ROADWAY**



**TYPICAL 1.83 m (6') DIA. INDUCTION LOOP LAYOUT FOR LANE 2**



**WIRING DETAILS**

**NOTES**

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 45 m (150FT.) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

REVISION	NAME	DATE
	R.L.	5/14
	T.C.	5/16

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER  
**EXISTING ROUND LOOP  
INSTALLATION**

SCALE: VERT. NONE  
DATE: 5-22-14  
DRAWN BY: G.M.  
CHECKED BY: R.L.

**TRAFFIC SYSTEMS CENTER (TY-1TSC-418\*1)**

FILE NAME =	DESIGNED - GHT	REVISED -
...\\prbln.abc.c2.ts.det.0%.dgn	DRAWN - TMB	REVISED -
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PLCT DATE = 1/25/2012	DATE - 1/25/10	REVISED -

**benesch**

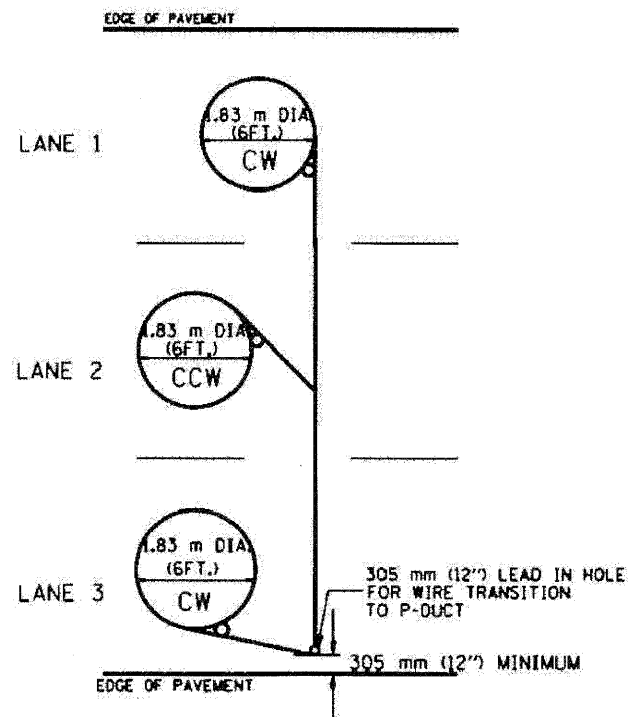
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SYSTEMS CENTER  
DETAIL SHEETS

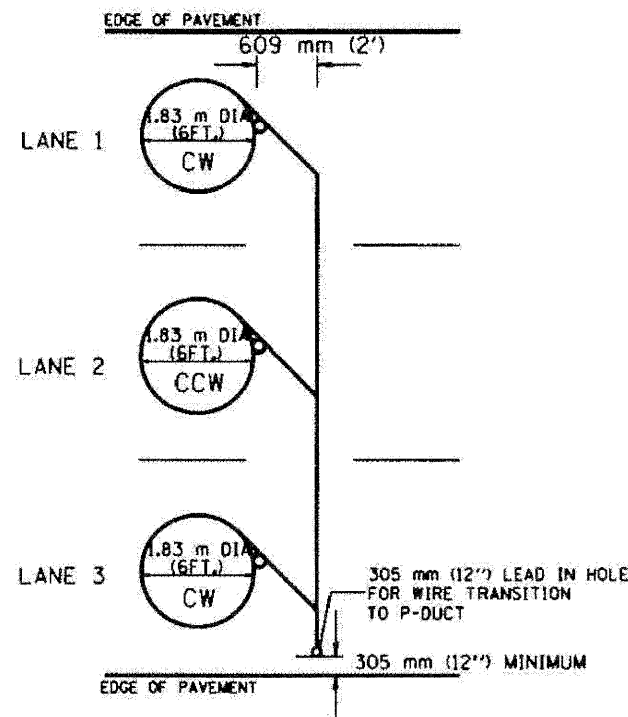
SCALE: N.T.S. SHEET NO. 9 OF 17 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(313), ETC., 3435/RS-6	COOK	215	191
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60K10	

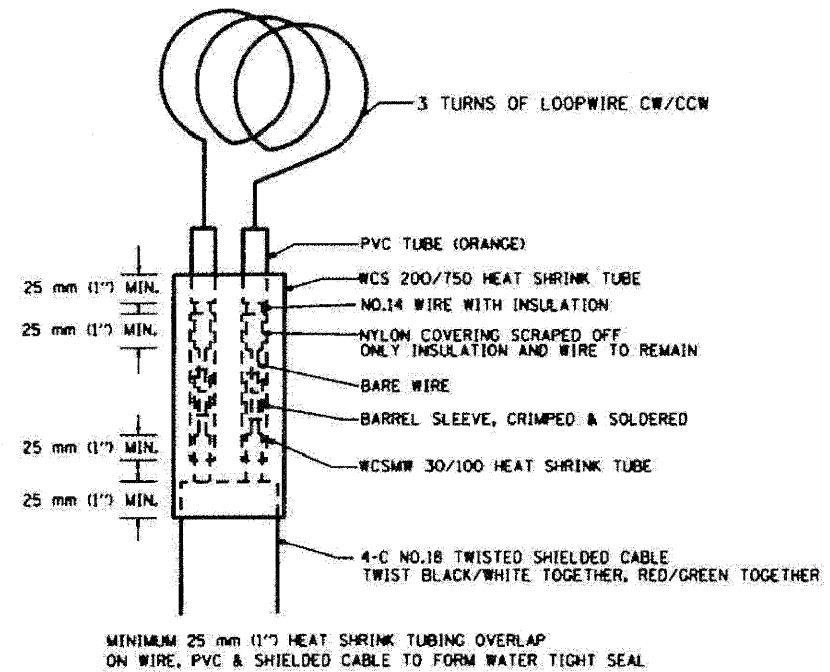
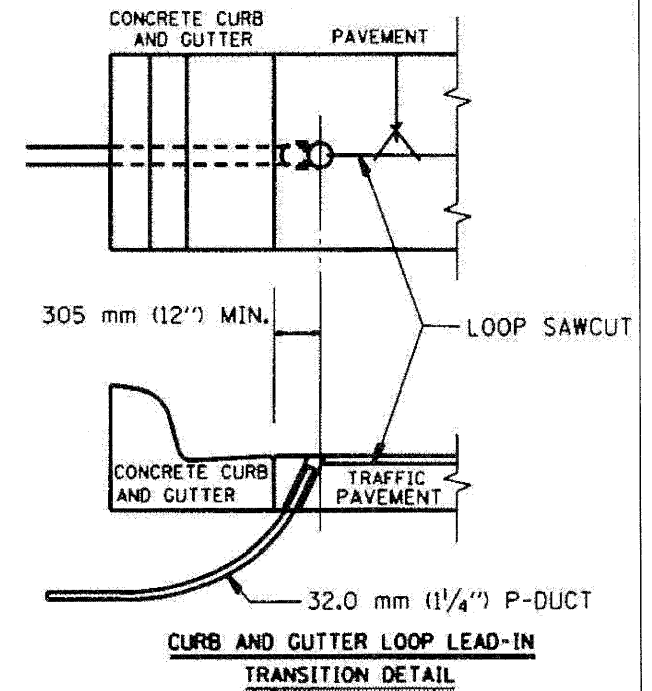
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA. ....	TO STA. ....			
FED. ROAD DIST. NO. ....	ILLINOIS FED. AID PROJECT			



TYPICAL 1.83 m (6FT.) DIA. INDUCTION LOOP CORE DRILL  
LAYOUT FOR MULTIPLE LANE ROADWAY



TYPICAL 1.83 m (6FT.) DIA. INDUCTION LOOP CORE DRILL  
LAYOUT FOR MULTIPLE LANE ROADWAY



LOOP SPLICING REQUIREMENTS

NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 45 m (150FT.) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

DESIGNED	DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER <b>EXISTING ROUND INDUCTION LOOP TYPICALS</b>	SCALE: VERT. NONE DATE 5-22-94	DRAWN BY: G.M. CHECKED BY: R.L.
DRAWN	6/94			
CHECKED	10/96			

TRAFFIC SYSTEMS CENTER (TY-1TSC-418#2)

FILE NAME =	DESIGNED - GHT	REVISED -
...\\prpln-abc.c2.ts-det.10.egn	DRAWN - TMB	REVISED -
USER NAME = tblank	CHECKED - MPM	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

benesch

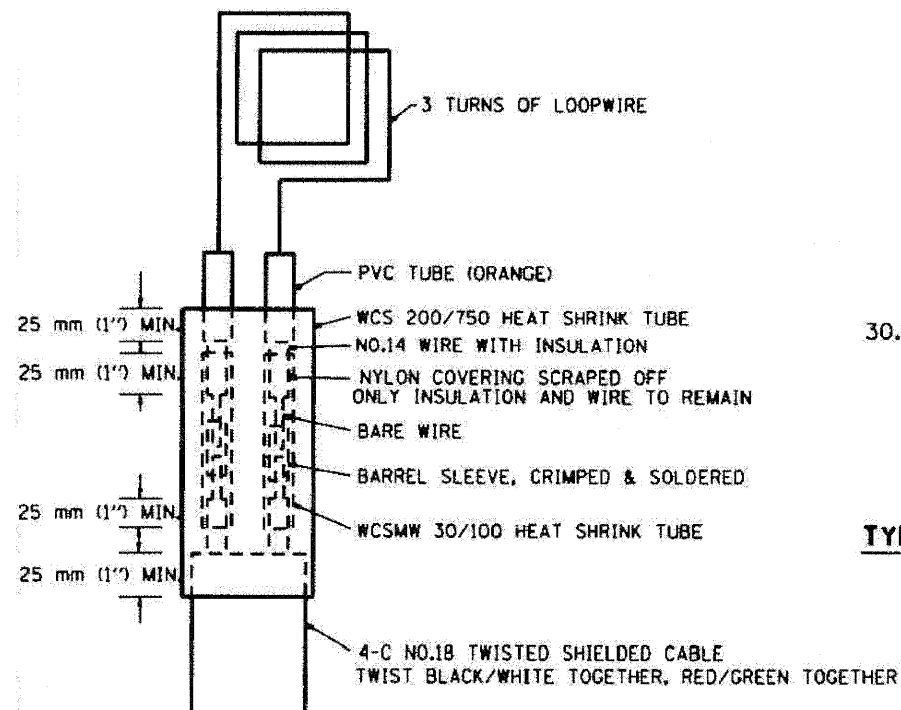
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SYSTEMS CENTER  
DETAIL SHEETS

SCALE: N.T.S. SHEET NO. 10 OF 17 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	192
FED. ROAD DIST. NO. ....			ILLINOIS FED. AID PROJECT	

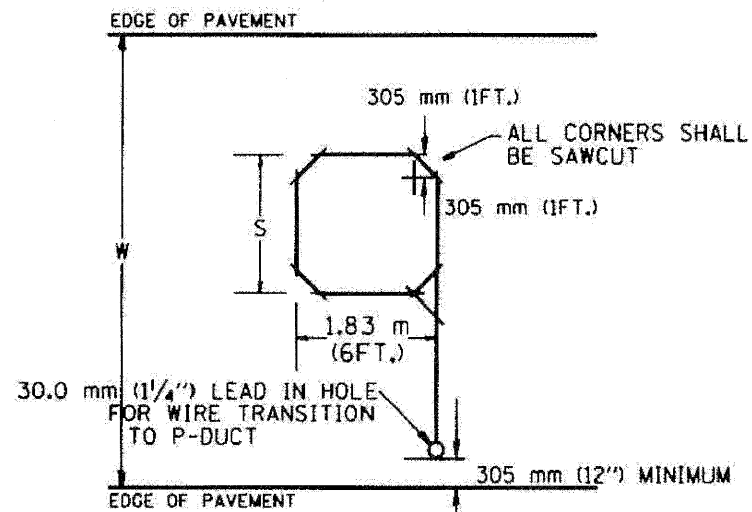
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



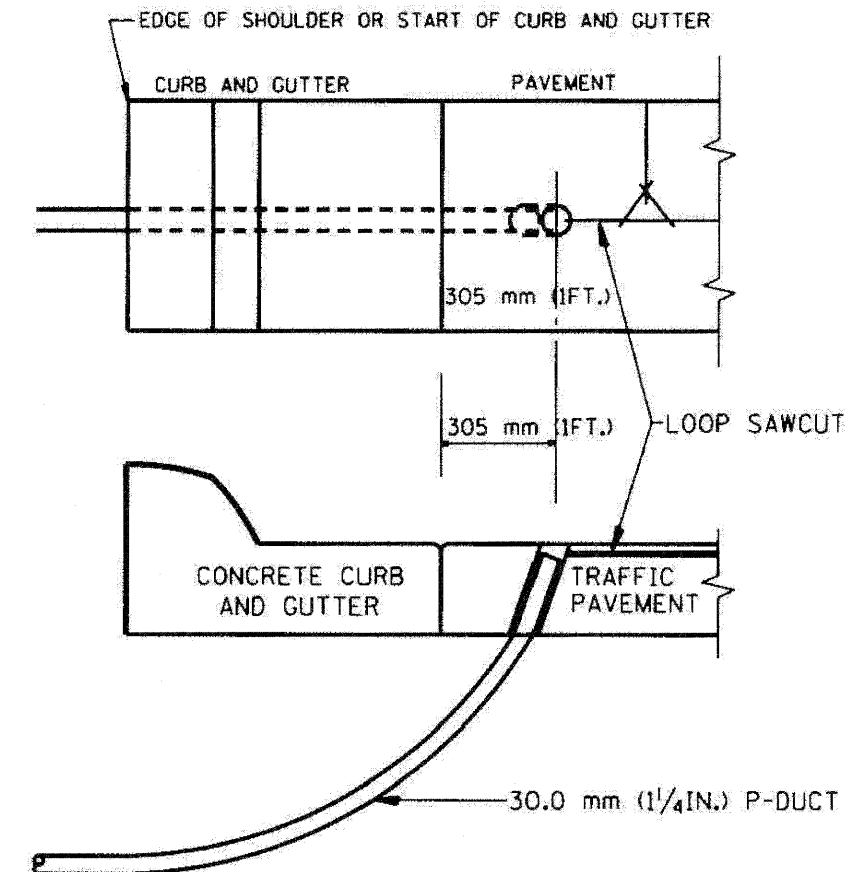
MINIMUM 25 mm (1") HEAT SHRINK TUBING OVERLAP ON WIRE, PVC & SHIELDED CABLE TO FORM WATER TIGHT SEAL

**LOOP SPLICING REQUIREMENTS**

WIDTH (W)	WIDTH (S)
3.7 m (12')	2.5 m (8')
4.0 m (13')	2.8 m (9')
4.3 m (14')	3.1 m (10')
4.6 m (15')	3.4 m (11')
4.9 m (16')	3.7 m (12')
5.2 m (17')	4.0 m (13')
5.5 m (18')	4.3 m (14')
5.8 m (19')	4.6 m (15')
6.1 m (20')	4.9 m (16')
6.4 m (21')	5.2 m (17')
6.7 m (22')	5.5 m (18')
7.0 m (23')	5.8 m (19')
7.3 m (24')	6.1 m (20')
7.6 m (25')	6.4 m (21')



**TYPICAL "S" FT. BY 1.83 m (6FT.) INDUCTION LOOP SAWCUT LAYOUT FOR RAMP**



**CURB AND GUTTER LOOP LEAD-IN TRANSITION DETAIL**

**NOTES**

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 45 m (150FT.) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

REVISES		ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER
NAME	DATE	
R.L.	6/94	RECTANGULAR INDUCTION LOOP TYPICAL
T.C.	11/95	
R.L.	05/96	
T.C.	10/96	
SCALE: VERT. NONE HORIZ. NONE		DRAWN BY: G.M.
DATE: 6-22-94		CHECKED BY: R.L.

**TRAFFIC SYSTEMS CENTER (TY-1TSC-418\*3)**

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USER NAME = tblank	CHECKED - MPM	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

**benesch**

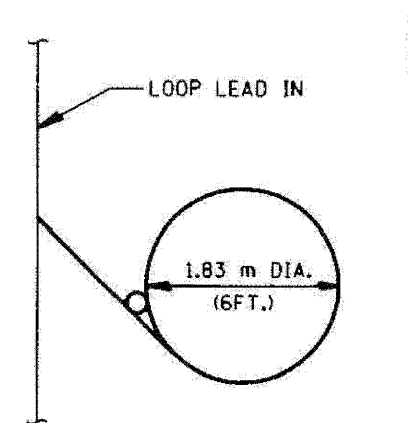
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SYSTEMS CENTER  
DETAIL SHEETS**

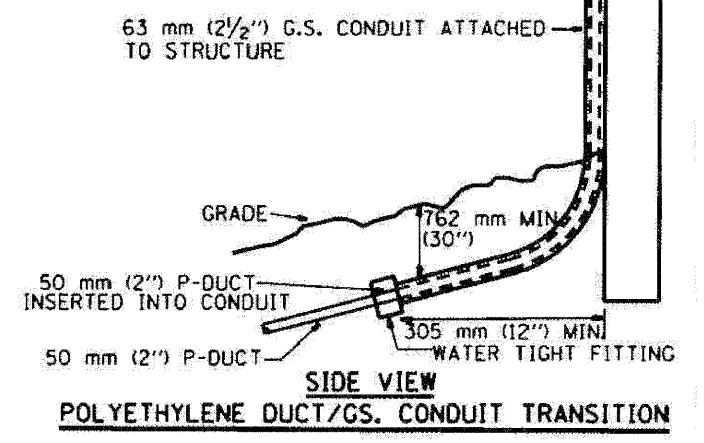
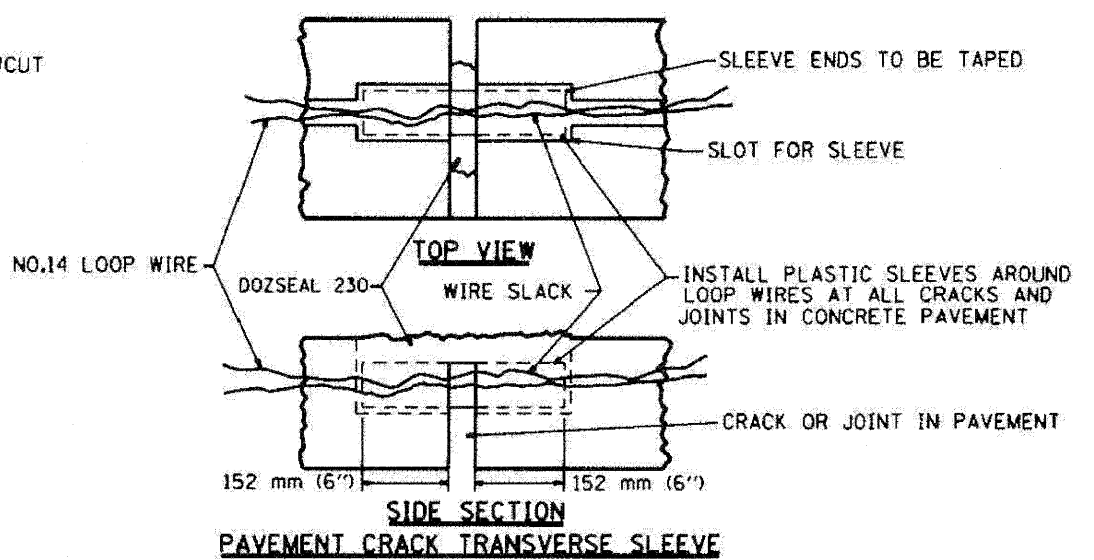
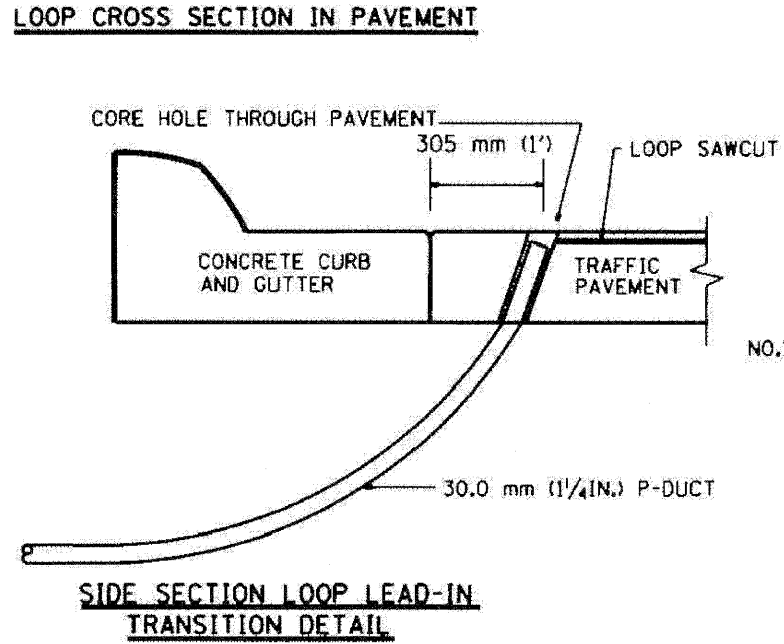
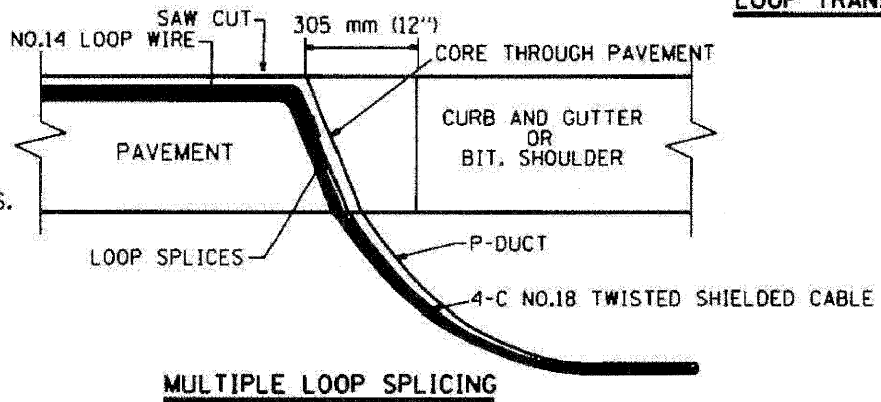
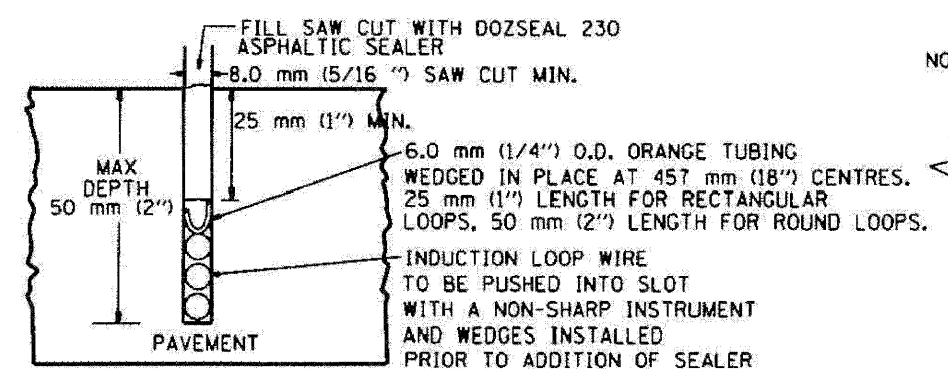
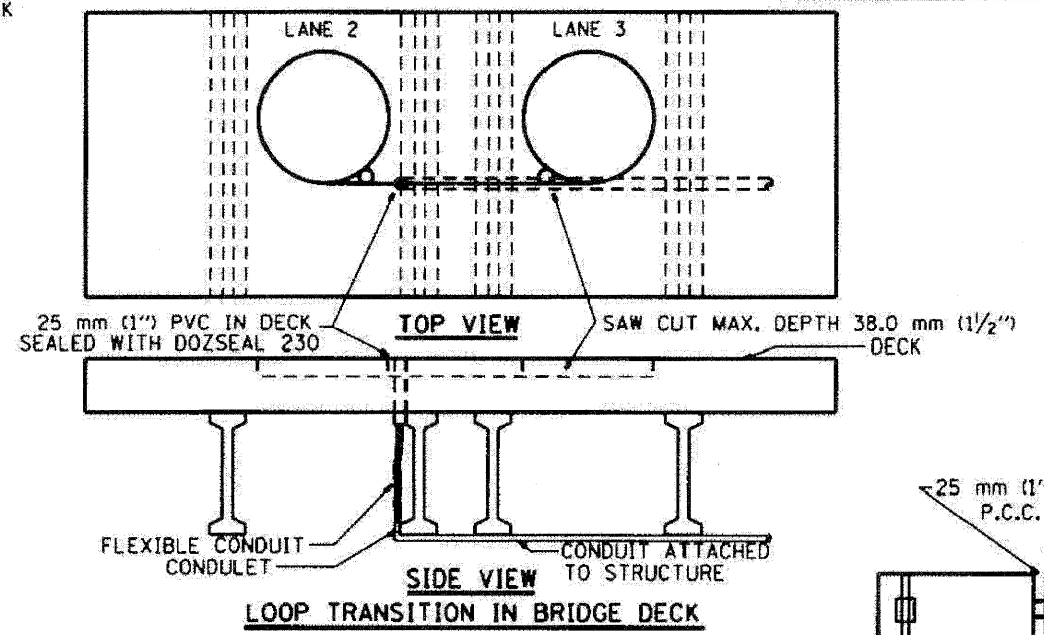
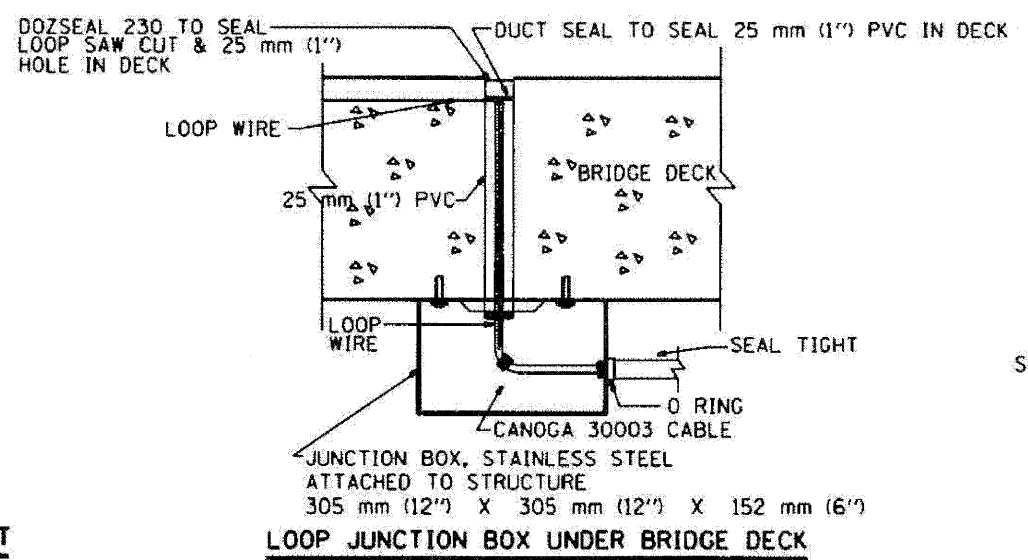
SCALE: N.T.S. SHEET NO. 11 OF 17 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(313), ETC., 3435RS-6	COOK	215	193
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435RS-6	COOK	215	194
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	



TYPICAL LOOP SAWCUT LAYOUT



REVISION	DATE
R.L.	5/04
R.L.	5/05
T.E.	11/05
R.L.	08/06
T.E.	10/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER

**LOOP, CONDUIT & DUCT INSTALLATION DETAILS**

SCALE: VERT. NONE  
DATE: 6-22-04

DRAWN BY: G.M.  
CHECKED BY: R.L.

TRAFFIC SYSTEMS CENTER (TY-1TSC-418\*4)

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benesch

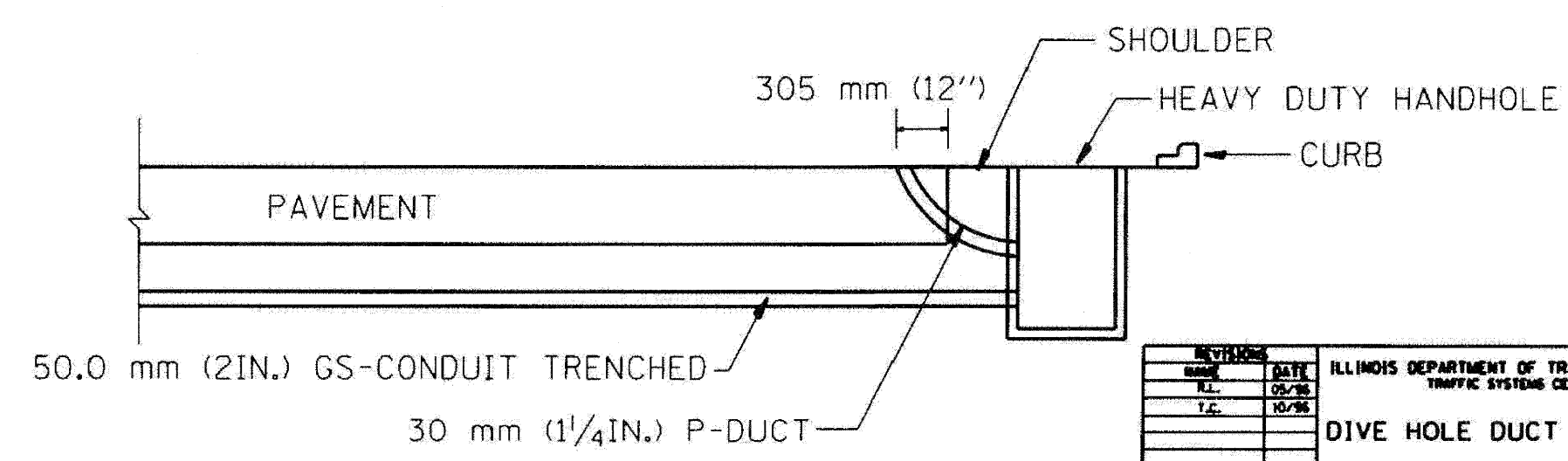
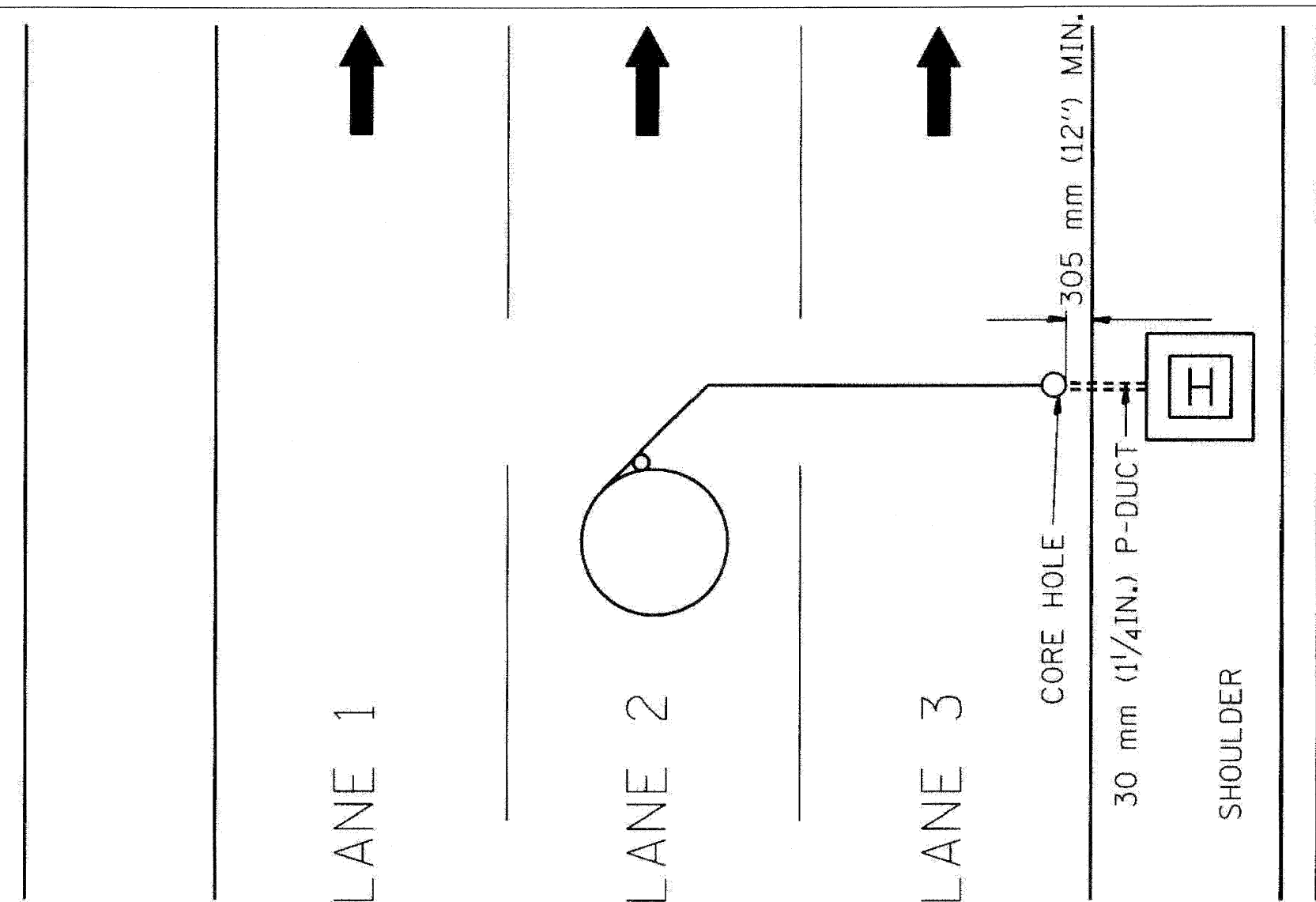
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SYSTEMS CENTER  
DETAIL SHEETS

SCALE: N.T.S. SHEET NO. 12 OF 17 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435RS-6	COOK	215	194
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



REVISION	DATE
None	05/98
R.L.	10/98
T.C.	

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER

**DIVE HOLE DUCT SYSTEM**

SCALE: VERT. NONE  
DATE 11/7/95

DRAWN BY G.M.  
CHECKED BY R.L.

**TRAFFIC SYSTEMS CENTER (TY-1TSC-418\*8)**

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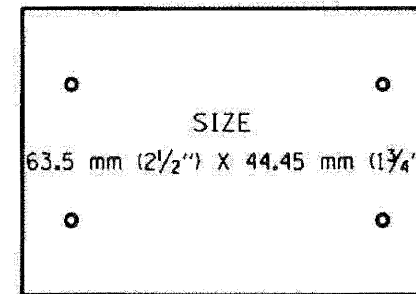
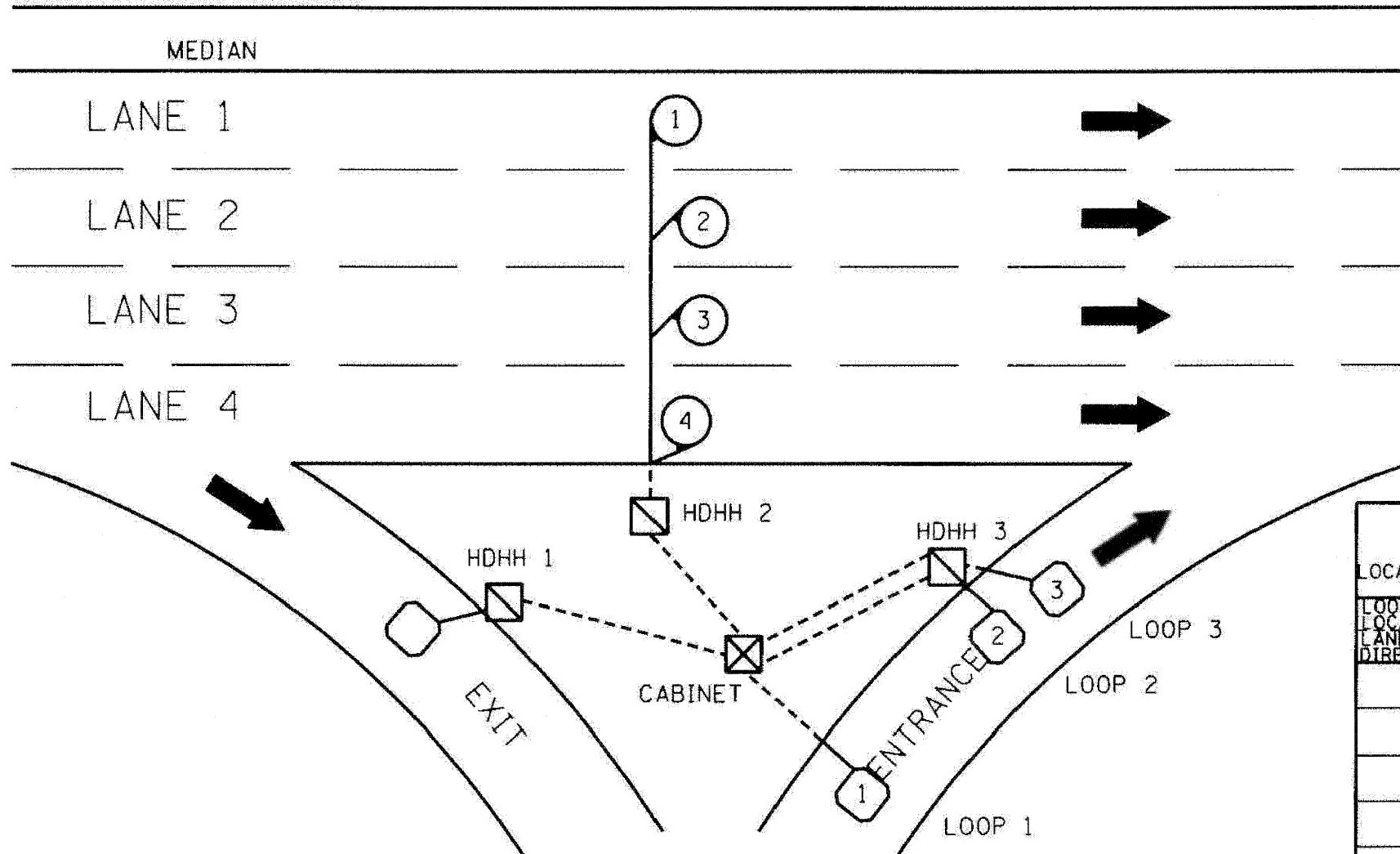
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SYSTEMS CENTER DETAIL SHEETS	
SCALE: N.T.S.	SHEET NO. 13 OF 17 SHEETS
STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	195
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 60K10				

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



SUGGESTED TAG PANDUIT  
\*MP250W175-C  
OR EQUIVALENT

LOOP ANALYZER					
LOCATION _____				DATE _____	
LOOP LOCATION LANE DIRECTION	LOOP WIRE MARKED AND CODED	LOOP SIZE	FREQ. INDUCTANCE	INSULATION	LOOP RESISTANCE

HDHH 1 EXAMPLE

IB-EB EXIT  
CCW IN/  
TO CABINET # \_\_\_\_

HDHH 2 EXAMPLE

IB (OB) LANE # \_\_\_\_  
CCW /OUT  
TO CABINET # \_\_\_\_

HDHH 3 EXAMPLE

IB-EB ENT.  
LOOP #2  
CW IN/

NOTE:  
EACH LOOP WIRE SHALL BE TAGGED AS "IN" OR "OUT" AND "CW" OR "CCW". SHIELDED CABLE WILL BE TAGGED IN EACH HANDHOLE AND CABINET TO MATCH THE CABLE LOG.

REVISIONS	
NAME	DATE
R.L.	6/24
T.C.	10/96

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER

**LOOP STATUS REPORT**

SCALE: VERT. NONE  
DATE 6-27-94

DRAWN BY G.M.  
CHECKED BY R.L.

**TRAFFIC SYSTEMS CENTER (TY-1TSC-418#7)**

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**benesch**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

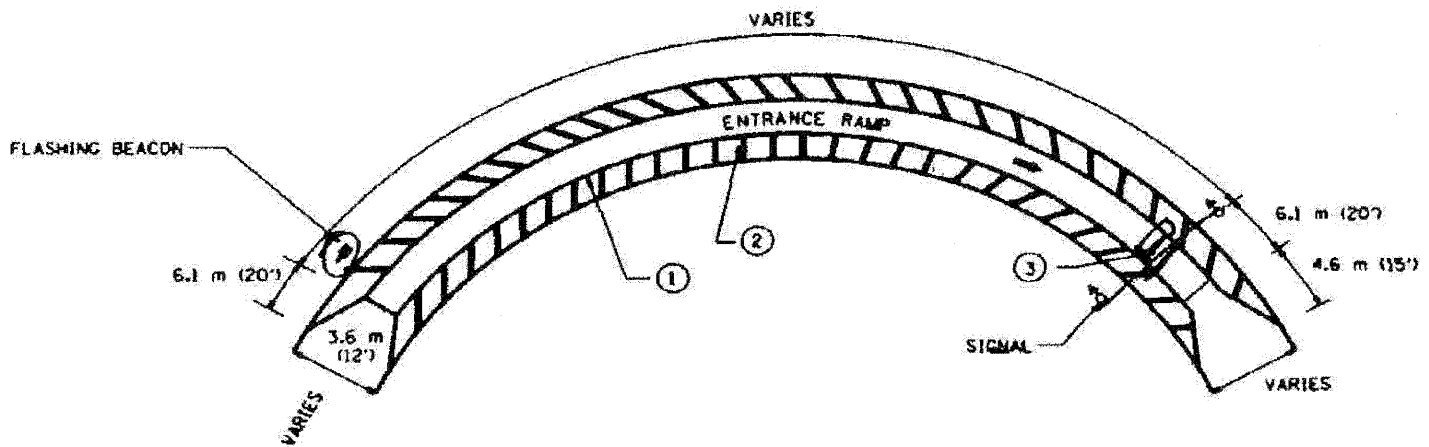
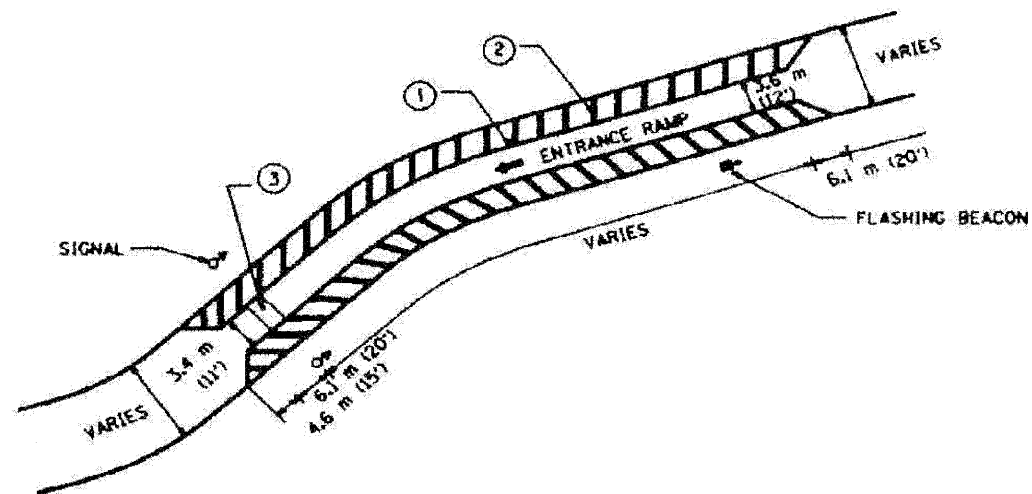
TRAFFIC SYSTEMS CENTER  
DETAIL SHEETS

SCALE: N.T.S. SHEET NO. 14 OF 17 SHEETS STA. TO STA.

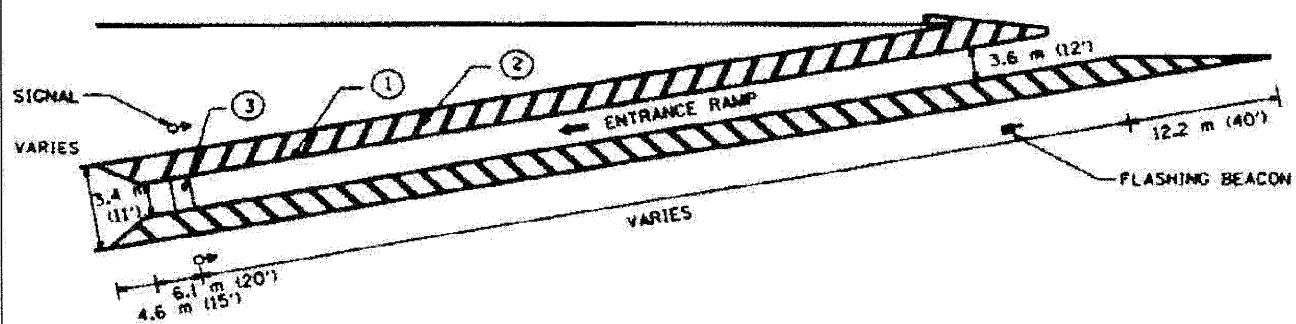
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	196
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
			CONTRACT NO. 60K10	



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



FRONTAGE ROAD



PAVEMENT MARKING

- ① 305 mm (12") WHITE CHANNEL MARKINGS
- ② 203 mm (8") WHITE CROSS-HATCHING AT 3.05 m (10') INTERVALS
- ③ 609 mm (24") WHITE STOP BAR CENTERED BETWEEN SIGNALS

REVISIONS	
NO.	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER  
**TYPICAL RAMP  
METERING STRIPING**  
SCALE: NONE  
DATE: 8-22-14  
DRAWN BY: C.J.  
CHECKED BY: A.L.

TRAFFIC SYSTEMS CENTER (TY-1TSC-500#1)

FILE NAME =	DESIGNED - OHT	REVISED -
USER NAME = tblank	DRAWN - TMB	REVISED -
PLOT DATE = 1/25/2010	CHECKED - MPM	REVISED -
	DATE - 1/25/10	REVISED -

**benesch**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

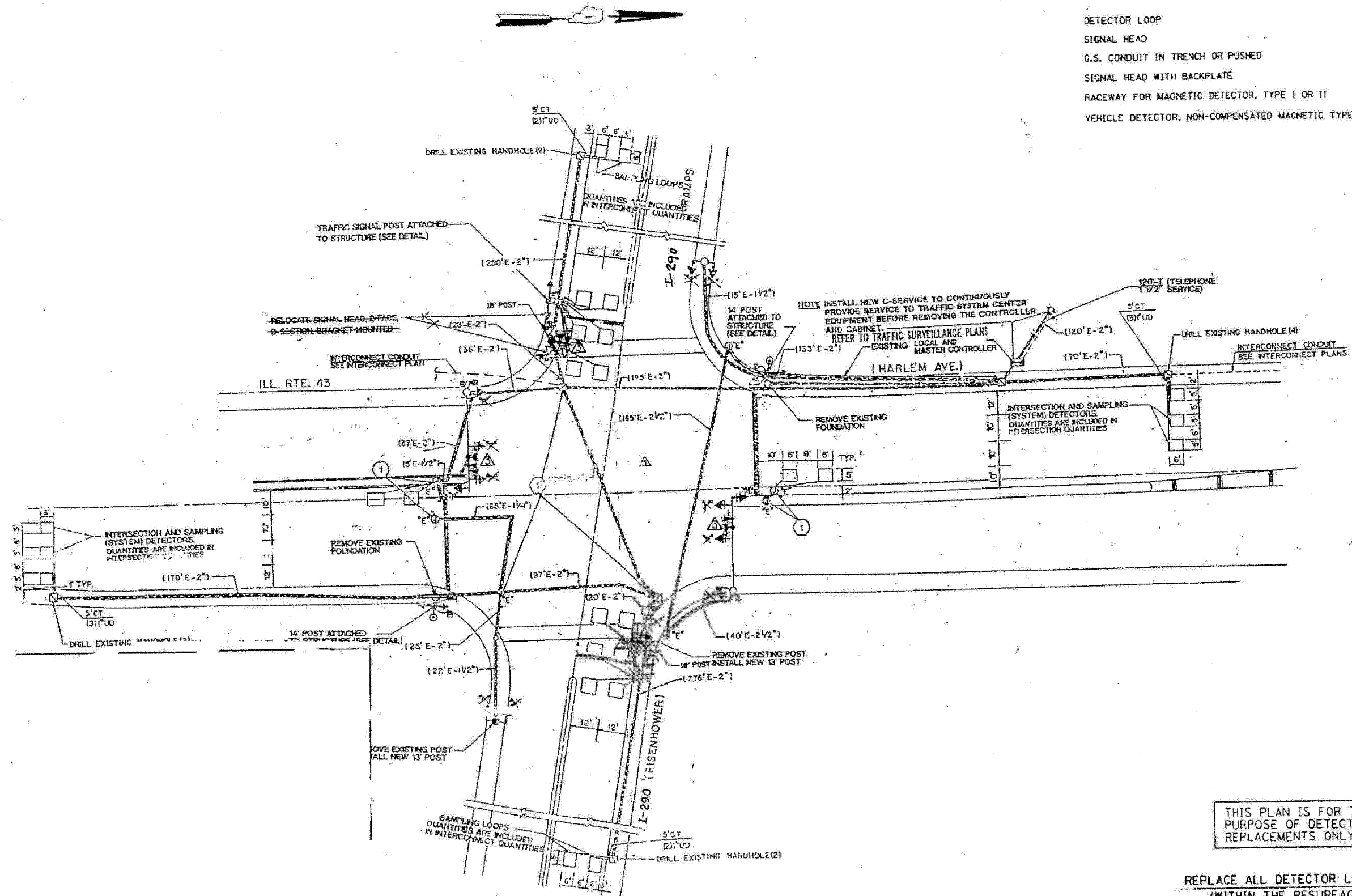
TRAFFIC SYSTEMS CENTER  
DETAIL SHEETS

SCALE: N.T.S. SHEET NO. 15 OF 17 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(313), ETC., 3435RS-6	COOK	215	197
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60K10	

**TRAFFIC SIGNAL LEGEND**

	PROPOSED	EXISTING
DETECTOR LOOP		
SIGNAL HEAD		
G.S. CONDUIT IN TRENCH OR PUSHED		
SIGNAL HEAD WITH BACKPLATE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR II		
VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE		



THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

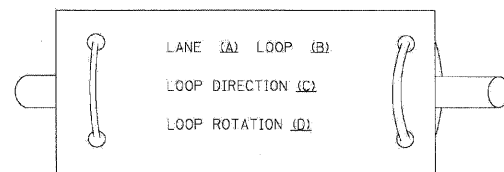
REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

FILE NAME -	DESIGNED - GHT	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE - DETECTOR LOOP REPLACEMENT I-290 (CENTER RAMPS) @ ILL RTE 43</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...nprpln_abc_c2_ts_dct_17.dgn	DRAWN - TMB	REVISED -				290	(3131, ETC., 3435)RS-6	COOK	215	198
USER NAME = tblank	CHECKED - MPM	REVISED -				CONTRACT NO. 60K10				
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
		SCALE: N.T.S.				SHEET NO. 16 OF 17 SHEETS STA. TO STA.				

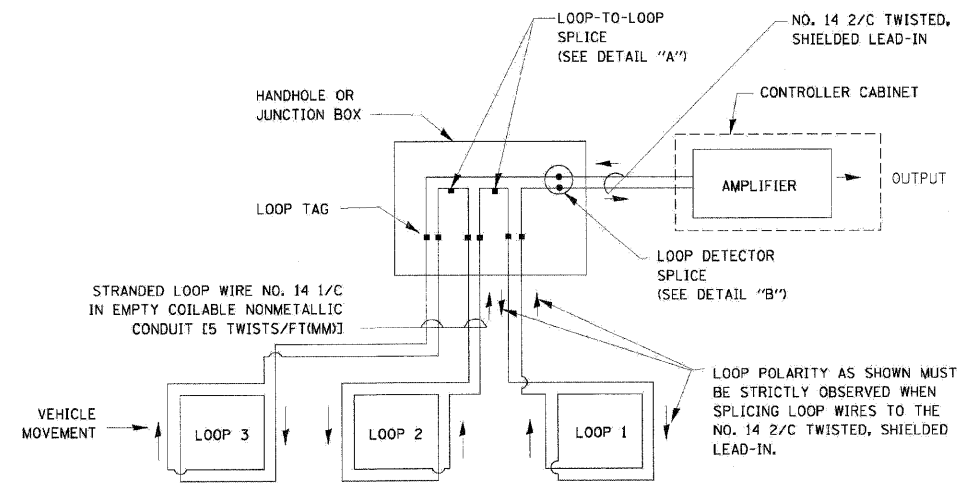
**LOOP DETECTOR NOTES**

- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVESHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

**LOOP LEAD-IN CABLE TAG**

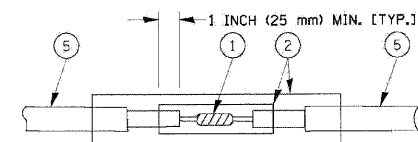


- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

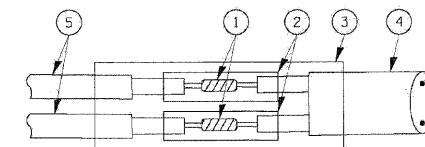


**DETECTOR LOOP WIRING SCHEMATIC**

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm), IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

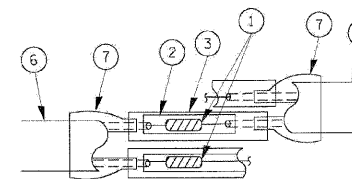


**DETAIL "A"  
LOOP-TO-LOOP SPLICE**

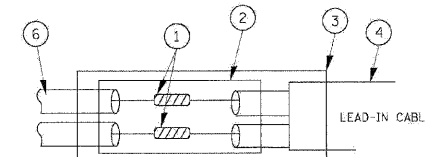


**DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE**

**TYPE I LOOP**



**DETAIL "A"  
LOOP-TO-LOOP SPLICE**



**DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE**

**LOOP DETECTOR SPLICE**

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2/C TWISTED, SHIELDED CABLE.
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = konthaptrayb	DESIGNED - DAD	REVISED -
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PLOT DATE = 1/25/2010		DATE - 10/28/09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	199
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO.				

SCALE: SHEET NO. 1 OF 6 SHEETS STA. TO STA.

FILE NAME =	DESIGNED - GHT	REVISED -
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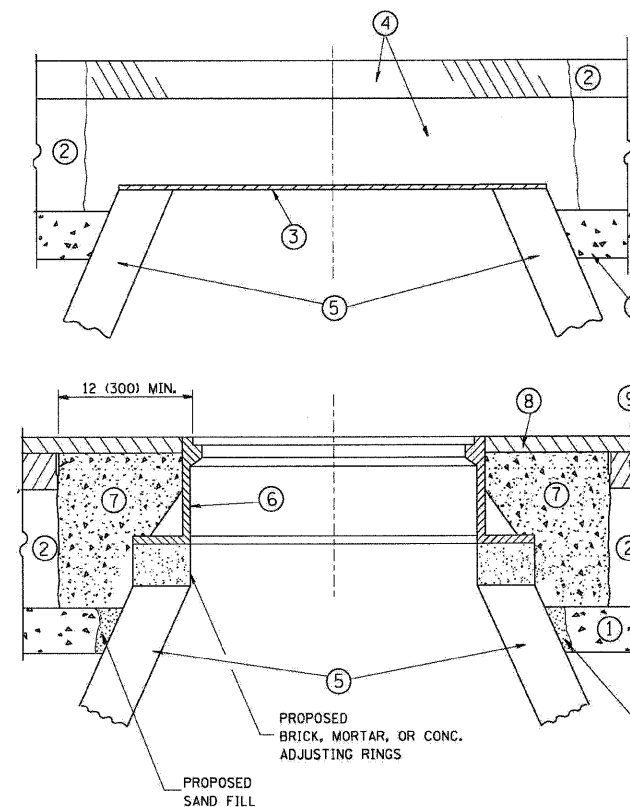
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SYSTEMS CENTER  
I-290 (CENTER RAMPS) @ ILL RTE 43**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	199
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 60K10				

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.



**CONSTRUCTION PROCEDURES**

**STAGE 1 (BEFORE PAVEMENT MILLING)**

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1½ (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

**STAGE 2 (AFTER PAVEMENT MILLING)**

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

**LEGEND**

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

**LOCATION OF STRUCTURES:**

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

**BASIS OF PAYMENT:** THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL" NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

**NOTES:**

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

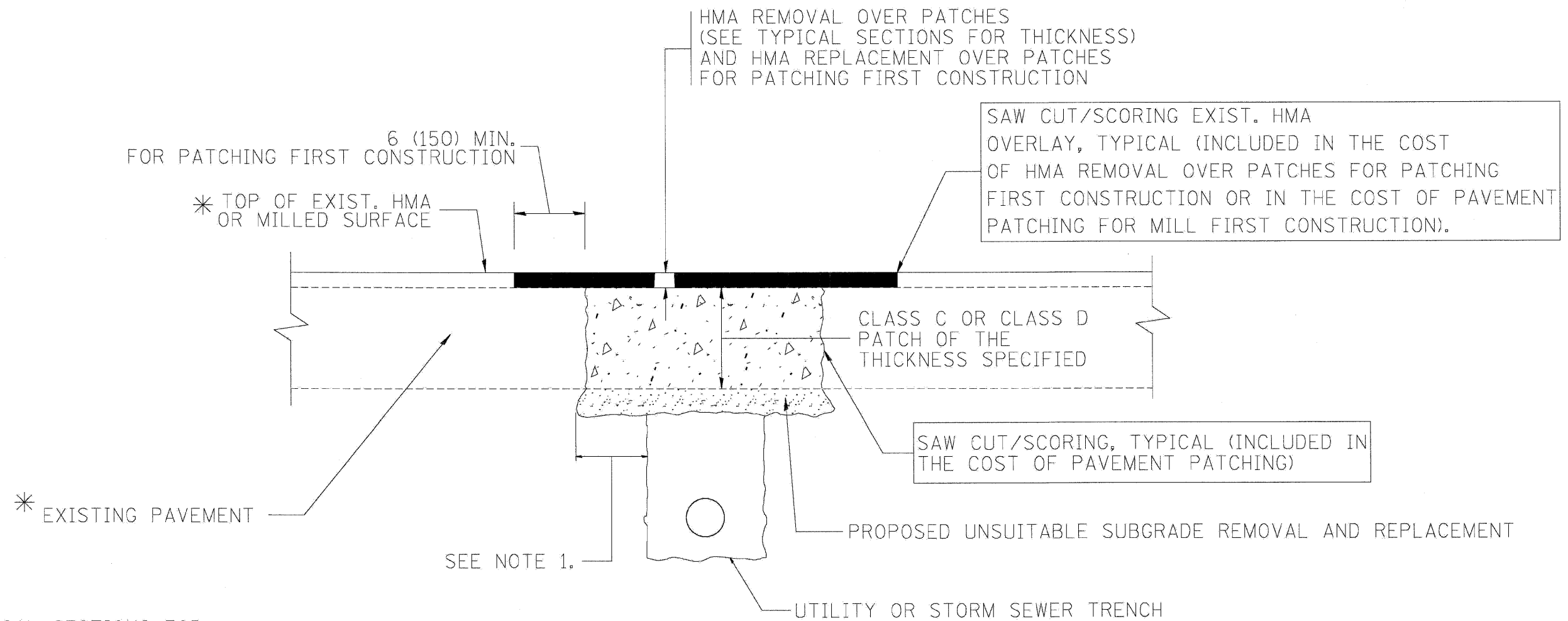
WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

**DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING**

**BD-08**

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>FRAMES AND LIDS WITH MILLING</b>		F.A.I. RTL.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\preln_abc_c2_dl180-8.dgn	DRAWN - TMB	REVISED -			290	(313), ETC., 3435/RS-6	COOK	215	200		
USER NAME = tblank	CHECKED - JMM	REVISED -			CONTRACT NO. 60K10						
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						
					SCALE: N.T.S.	SHEET NO. 1 OF 16 SHEETS	STA.	TO STA.			



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**NOTES:**

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

**SEQUENCE OF CONSTRUCTION (PATCHING FIRST)**

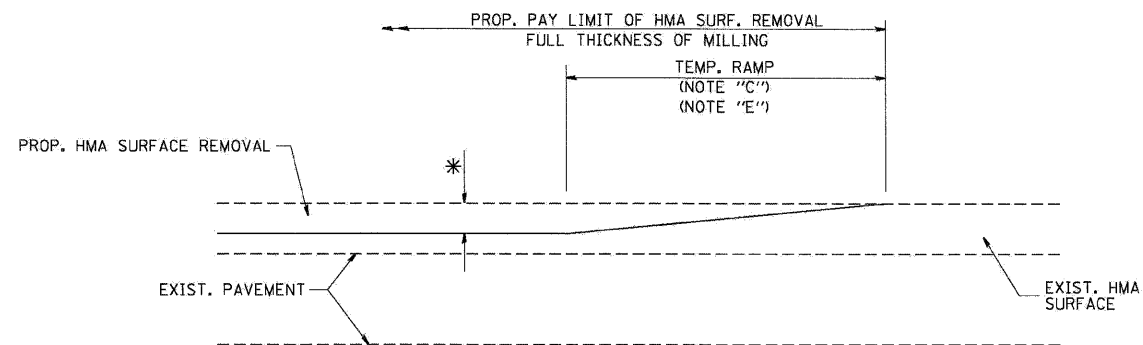
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

**SEQUENCE OF CONSTRUCTION (MILLING FIRST)**

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

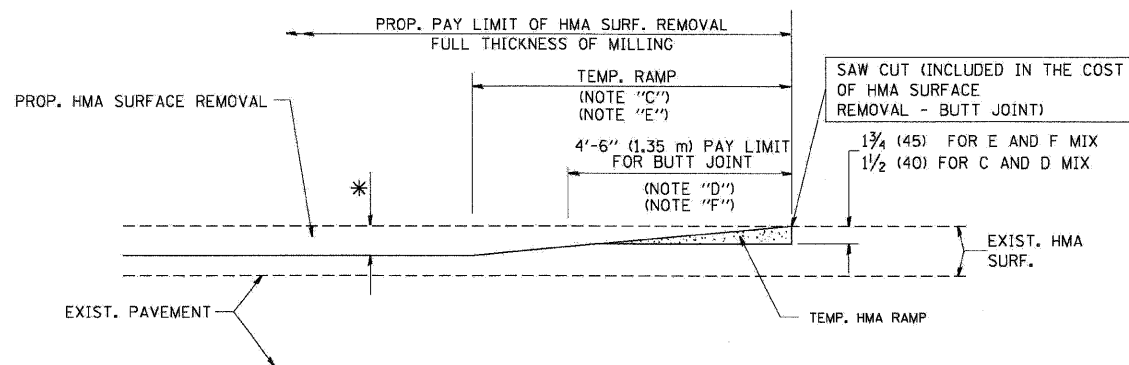
BD-22  
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\prp\in_abc_c2_01_00-22.dgn	DRAWN - TMB	REVISED -				290	(3131, ETC., 3435)RS-6	COOK	215	201
USER NAME = tblank	CHECKED - JMM	REVISED -				CONTRACT NO. 60K10				
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
SCALE: N.T.S.						SHEET NO. 2 OF 16 SHEETS		STA. TO STA.		



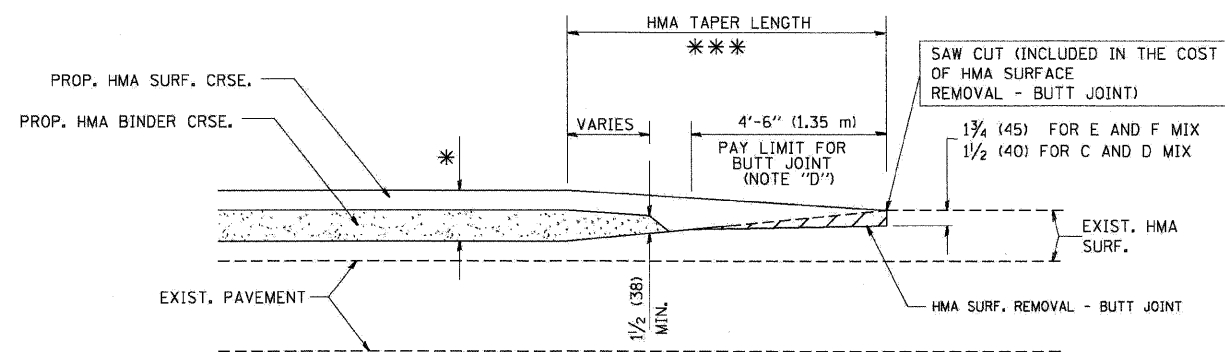
MILLED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

**OPTION 1**

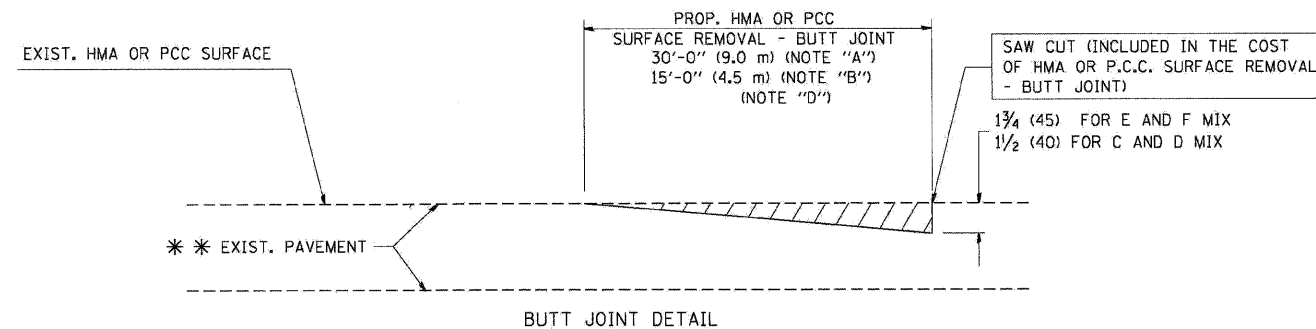


HMA CONSTRUCTED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

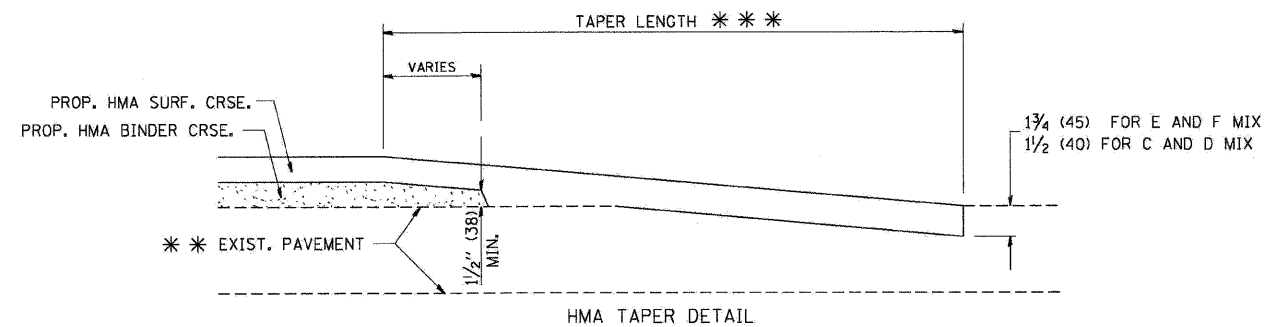
**OPTION 2**  
**TYPICAL TEMPORARY RAMP**



BUTT JOINT AND HMA TAPER  
**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**



**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

\*\*\* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

**NOTES**

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
  - B: MINOR SIDE ROADS.
  - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
  - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
  - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
  - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
  - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \*\*\* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

**BASIS OF PAYMENT:**

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

**BD-32**

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

FILE NAME =	DESIGNED - AJP	REVISED -
...\\prp\In-ABC_C2_01_BD-32.dgn	DRAWN - TMB	REVISED -
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PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

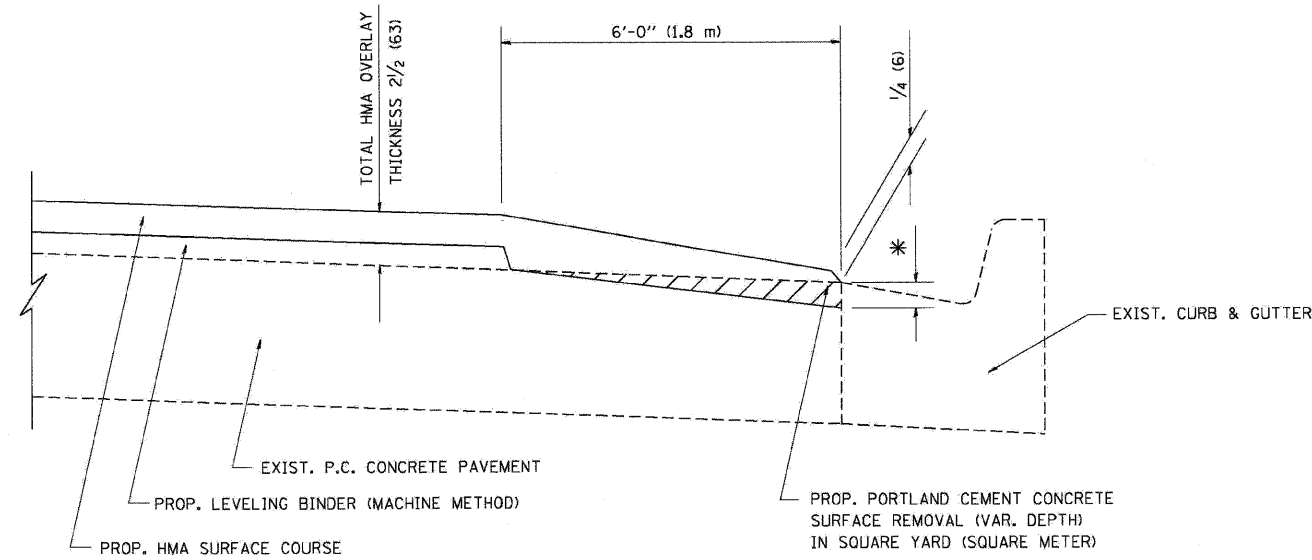
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINTS AND HMA TAPER**

SCALE: N.T.S. SHEET NO. 3 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	202
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60K10	



**HMA TAPER AT  
EDGE OF P.C.C PAVEMENT**

HMA SURFACE	LEVELING BINDER	* MILLING AT GUTTER FLAG	
MIX	THICKNESS	THICKNESS	
C OR D	1 1/2 (38)	1 (25)	1/4 (33)
F	1 3/4 (44)	3/4 (19)	1/2 (38)

**BD-33**

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

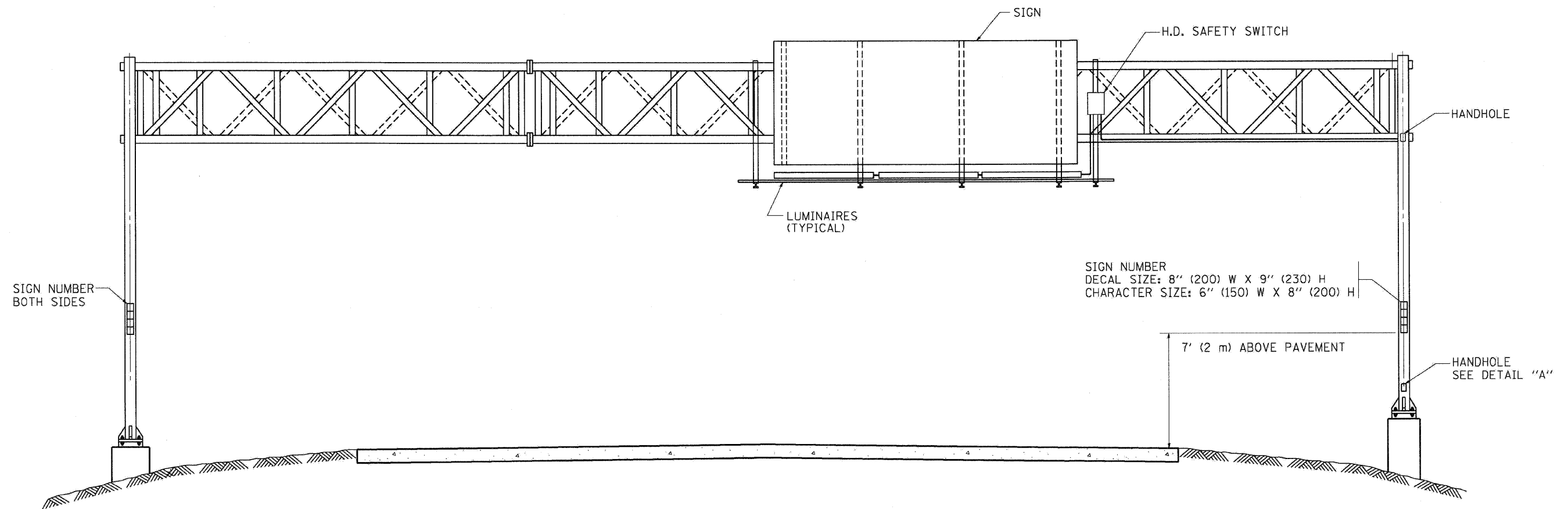
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USER NAME = tblank	CHECKED - JMM	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>HMA TAPER AT EDGE OF PCC PAVEMENT</b>		
SCALE: N.T.S.	SHEET NO. 4 OF 16 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	203
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60K10	



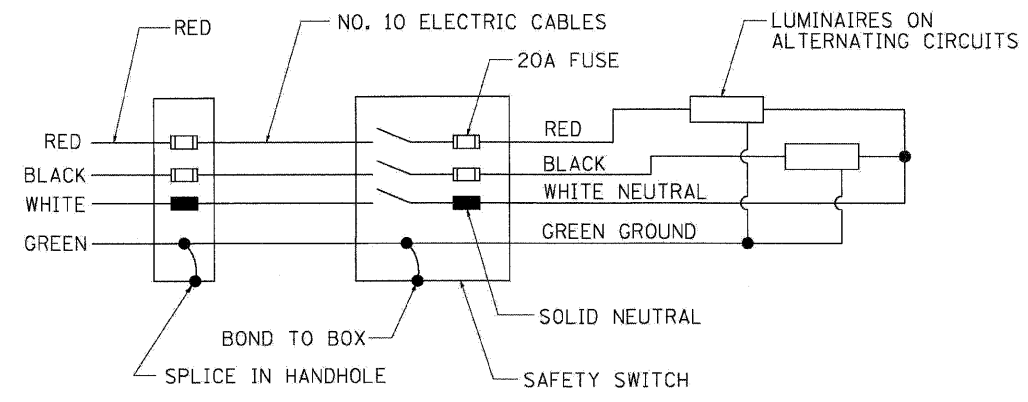
SIGN NUMBER  
 DECAL SIZE: 8" (200) W X 9" (230) H  
 CHARACTER SIZE: 6" (150) W X 8" (200) H

7' (2 m) ABOVE PAVEMENT

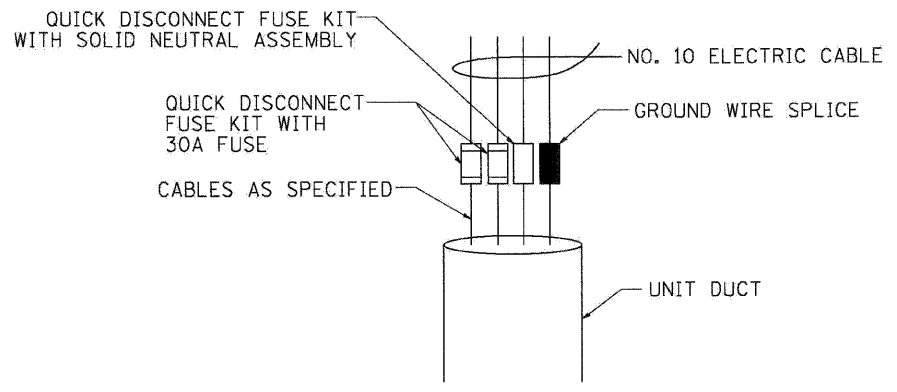
HANDHOLE  
 SEE DETAIL "A"

**NOTES:**

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
2. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE GALVANIZED RIGID METALIC CONDUIT, PVC COATED (GRMC, PVC)
3. THE USE OF LIQUID TIGHT METAL CONDUIT (TYPE LFMC) SHALL BE LIMITED TO LOCATIONS WHERE MOVEMENT IS ANTICIPATED AND SHALL NOT EXCEED 5' (1.5 m) IN LENGTH
4. ALL WORK INDICATED SHALL BE INCLUDED IN THE PAY ITEM FOR ELECTRIC CONNECTION TO SIGN STRUCTURE
5. THE SAFETY SWITCH SHALL BE LOCATED ON THE SIDE OF THE SIGN STRUCTURE WHICH IS CLOSEST TO THE SHOULDER, OR EDGE OF PAVEMENT.



**WIRING DIAGRAM**

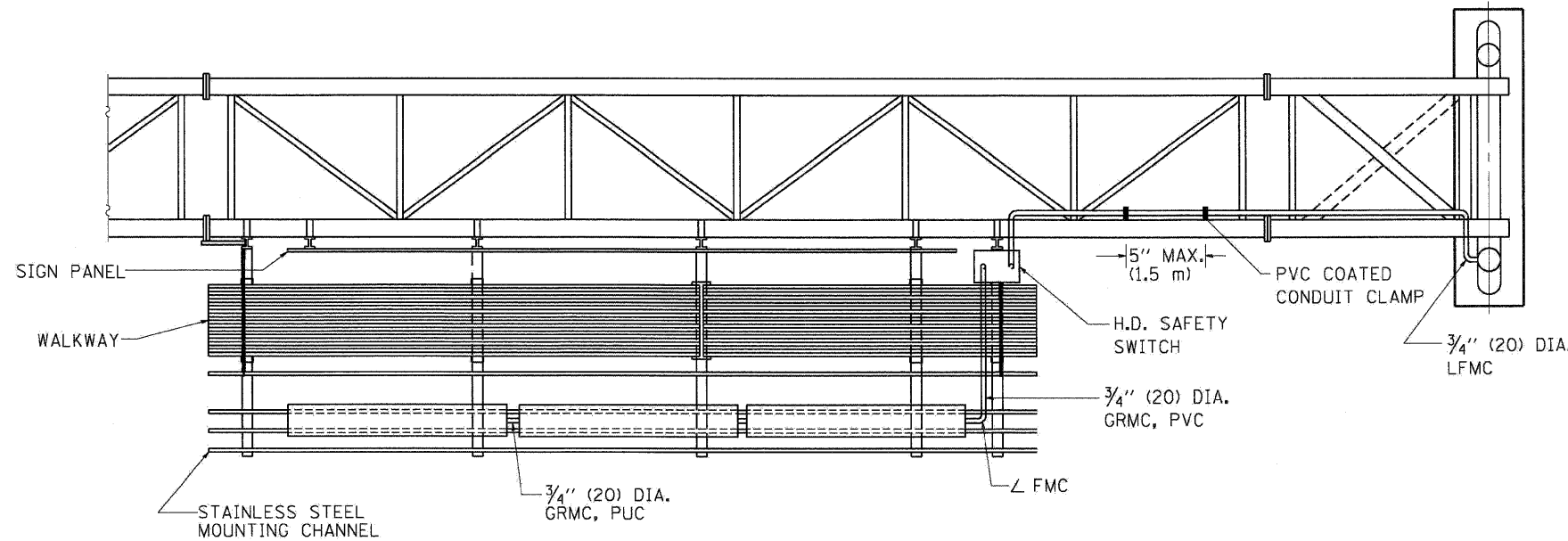


**DETAIL A**

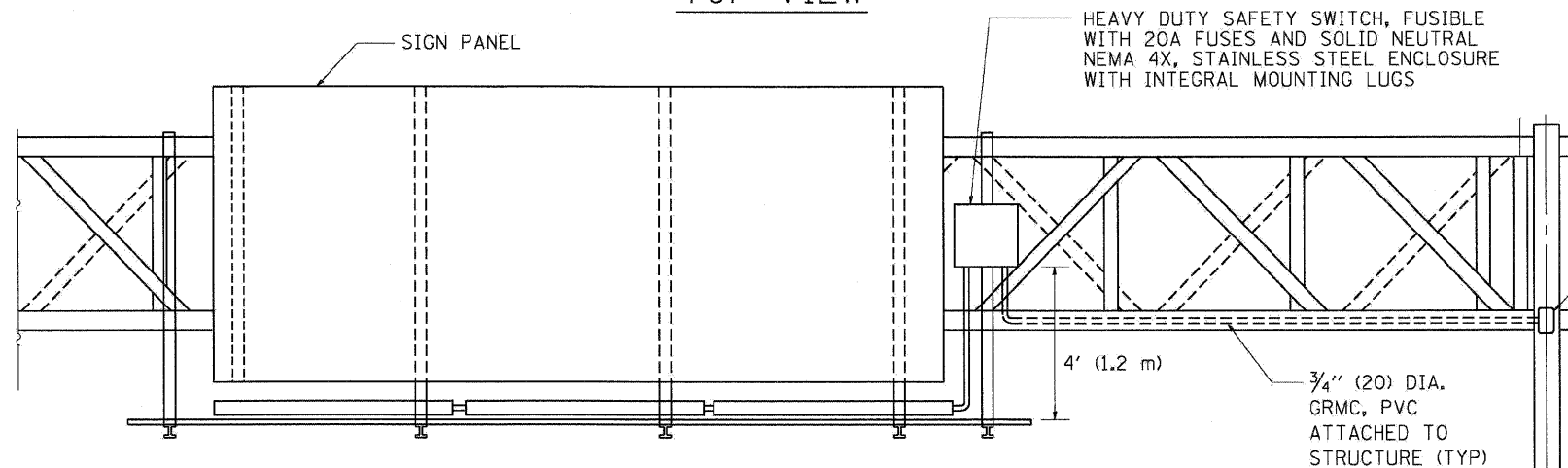
**BE-600**

FILE NAME = ...prpIn-ABC.C2_01.BE-600A.dgn	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ELECTRIC CONNECTION TO SIGN STRUCTURE SPAN TYPE</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME = tblank	DRAWN - TMB	REVISED -			290	(3131, ETC., 3435)RS-6	COOK	215	204		
PLOT DATE = 1/25/2010	CHECKED - JMM	REVISED -			SCALE: N.T.S. SHEET NO. 5 OF 16 SHEETS STA. TO STA.		CONTRACT NO. 60K10		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	
DATE = 1/25/10	REVISI	REVISED -									

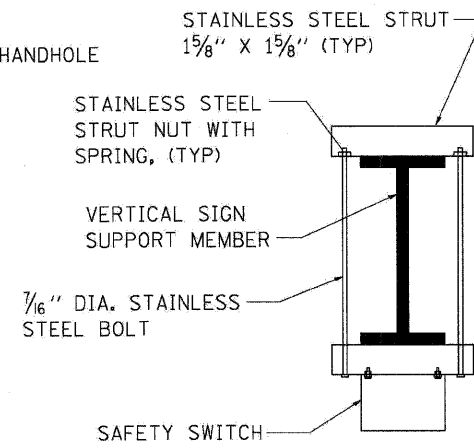
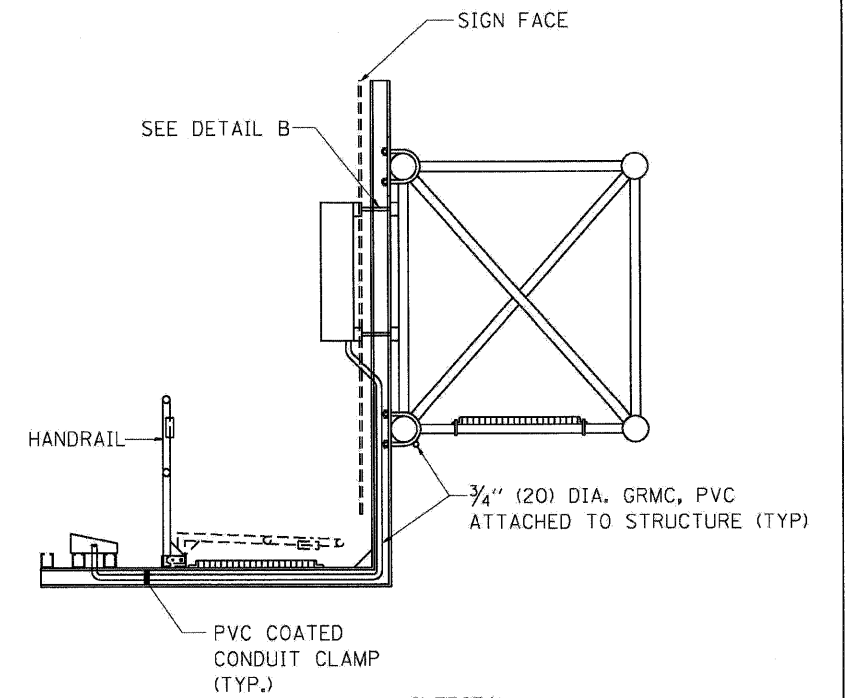




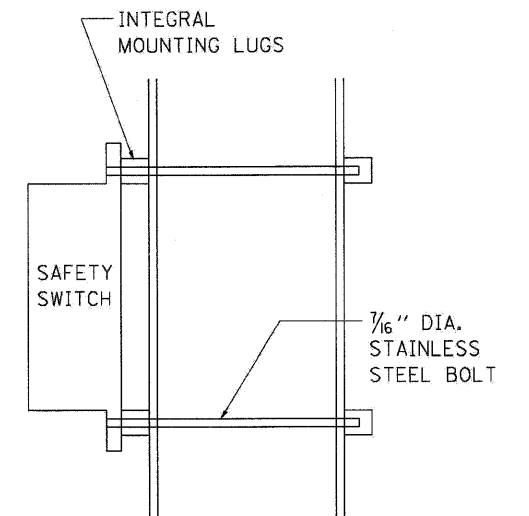
TOP VIEW



ELEVATION VIEW



TOP VIEW



SIDE VIEW

DETAIL B

BE-600

FILE NAME =	DESIGNED - AJP	REVISED -
...prpln_ABC.C2.D1.BE-600B.dgn	DRAWN - TMB	REVISED -
USER NAME = tblank	CHECKED - JMM	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

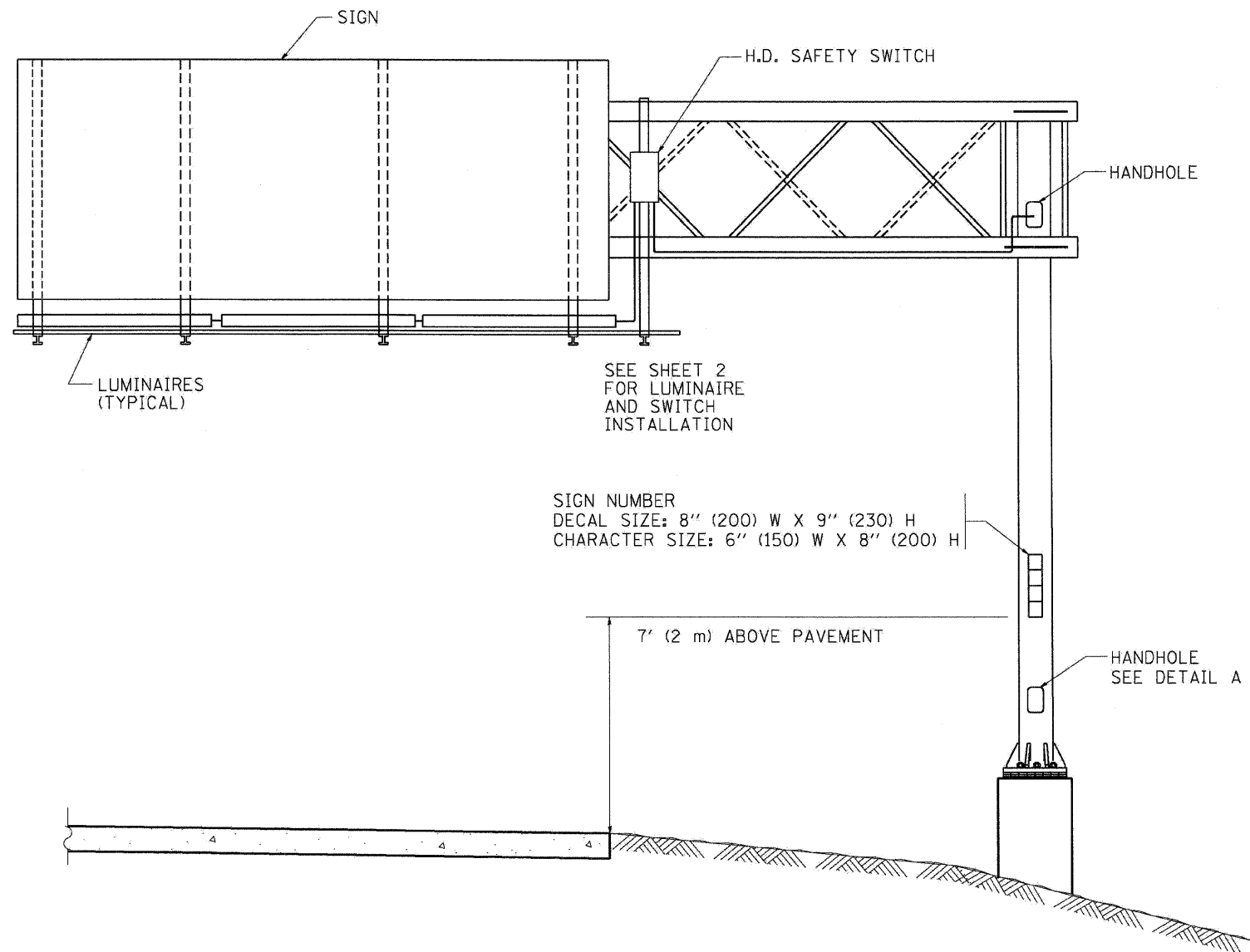
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ELECTRIC CONNECTION TO SIGN STRUCTURE SPAN TYPE**

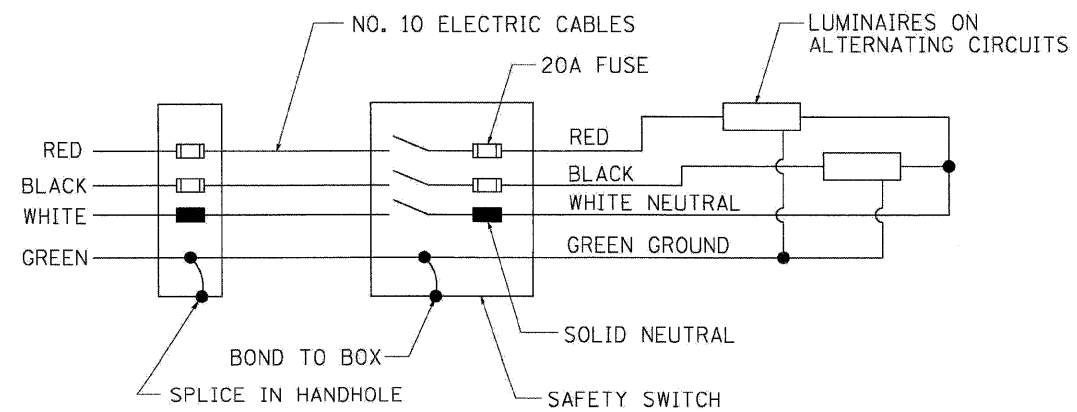
SCALE: N.T.S. SHEET NO. 6 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	205
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60K10	

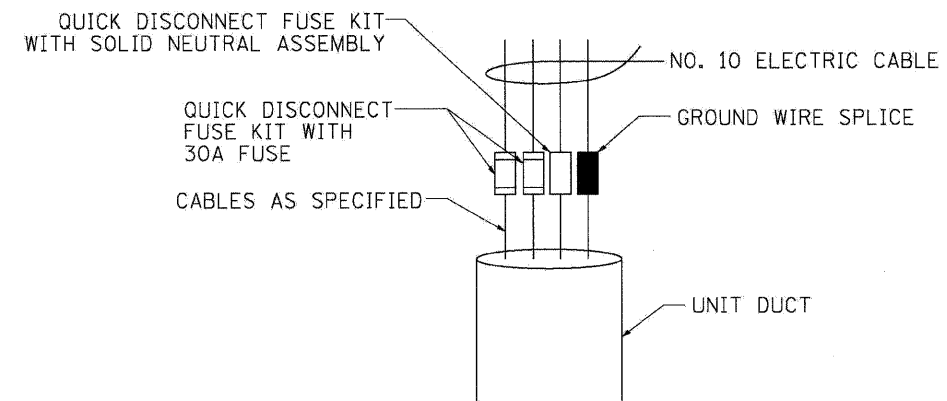


**NOTES:**

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
2. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE GALVANIZED RIGID METALIC CONDUIT, PVC COATED (GRMC, PVC)
3. THE USE OF LIQUID TIGHT METAL CONDUIT (TYPE LFMC) SHALL BE LIMITED TO LOCATIONS WHERE MOVEMENT IS ANTICIPATED AND SHALL NOT EXCEED 5' (1.5M) IN LENGTH
4. ALL WORK INDICATED SHALL BE INCLUDED IN THE PAY ITEM FOR ELECTRIC CONNECTION TO SIGN STRUCTURE
5. THE SAFETY SWITCH SHALL BE LOCATED ON THE SIDE OF THE SIGN STRUCTURE WHICH IS CLOSEST TO THE SHOULDER, OR EDGE OF PAVEMENT.



**WIRING DIAGRAM**



**DETAIL A**

**BE-601**

FILE NAME =	DESIGNED - AJP	REVISED -
...prpIn_ABC_C2_D1_BE-601A.dgn	DRAWN - TMB	REVISED -
USER NAME = tblank	CHECKED - JMM	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

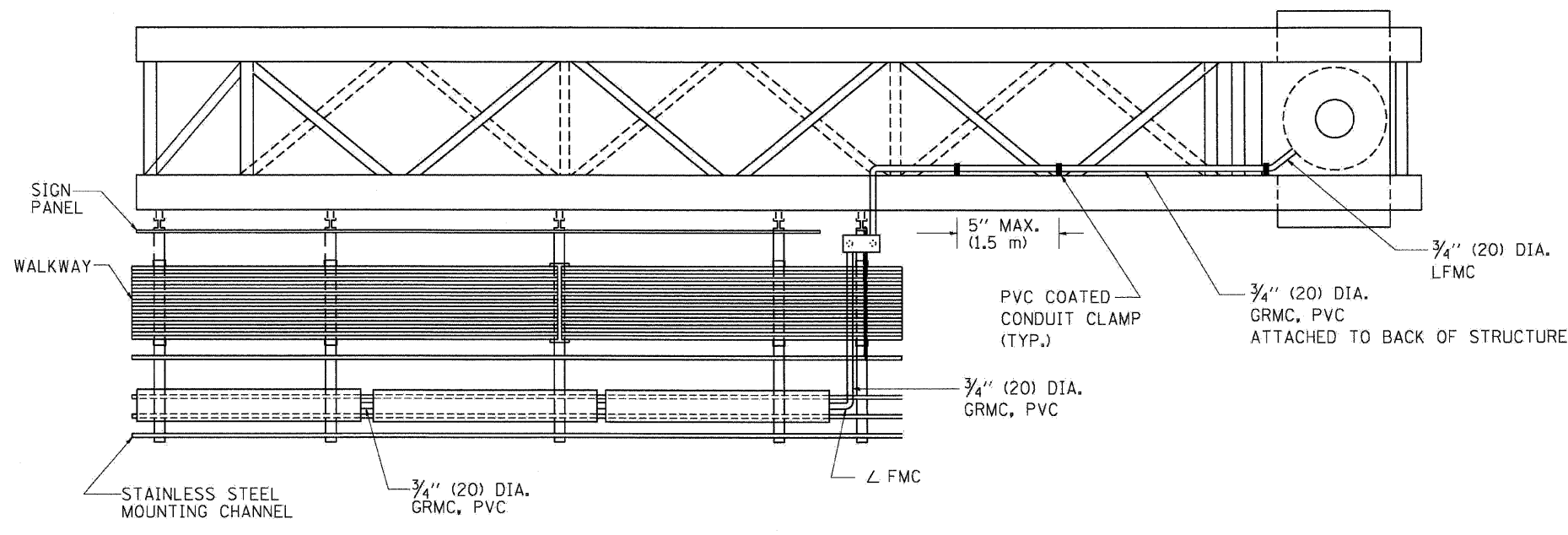
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

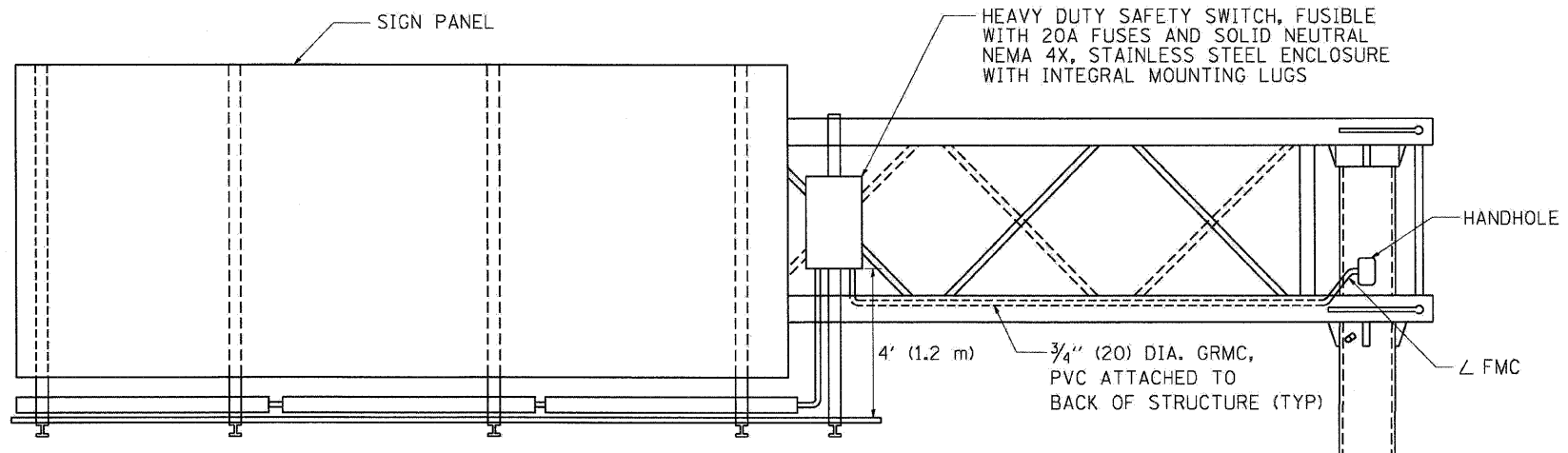
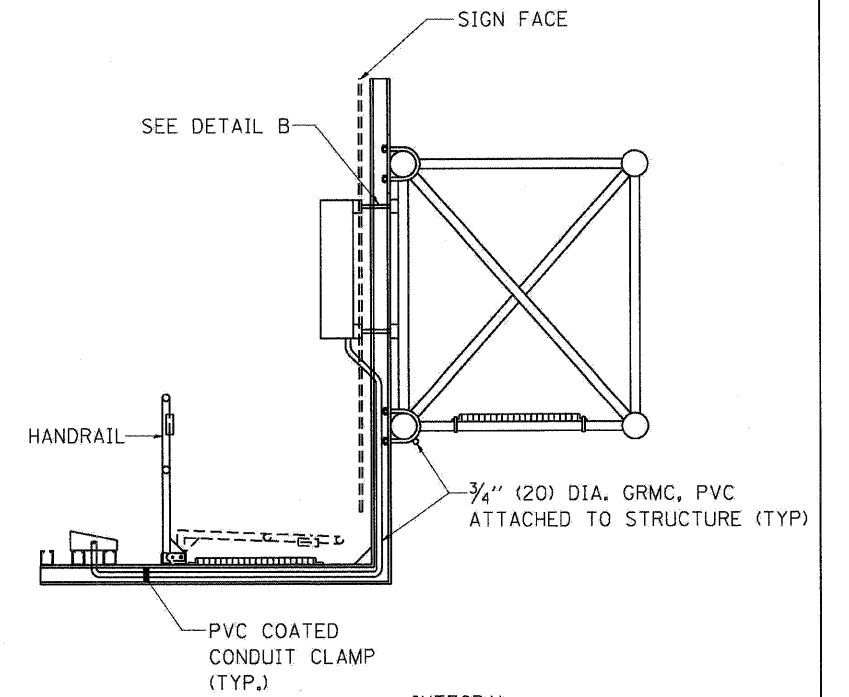
**ELECTRIC CONNECTION TO SIGN STRUCTURE CANTILEVER TYPE**

SCALE: N.T.S. SHEET NO. 7 OF 16 SHEETS STA. TO STA.

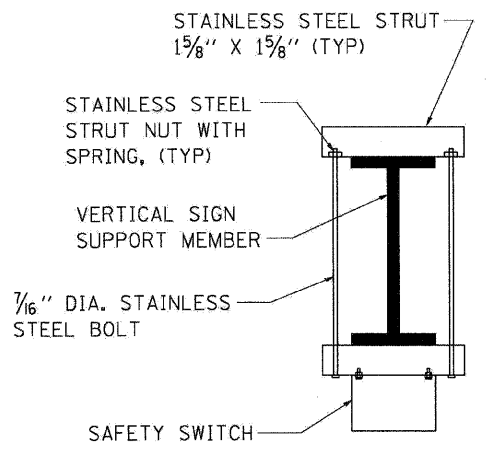
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	206
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60K10	



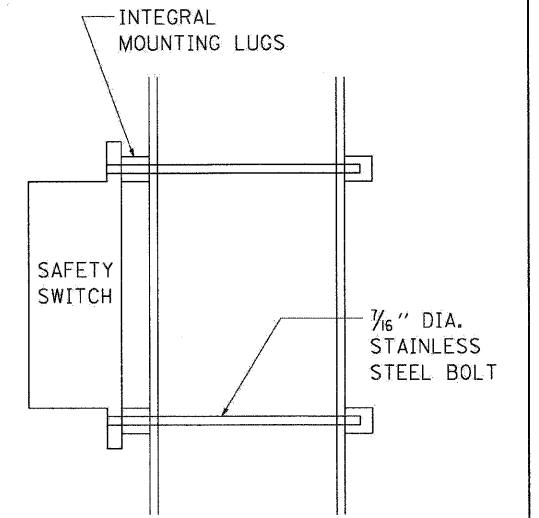
TOP VIEW



ELEVATION VIEW



TOP VIEW



SIDE VIEW

DETAIL B

FILE NAME =	DESIGNED - AJP	REVISED -
\\prpln\abc\c2\dl\be-601b.dgn	DRAWN - TMB	REVISED -
USER NAME = tblank	CHECKED - JMM	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

**benesch**

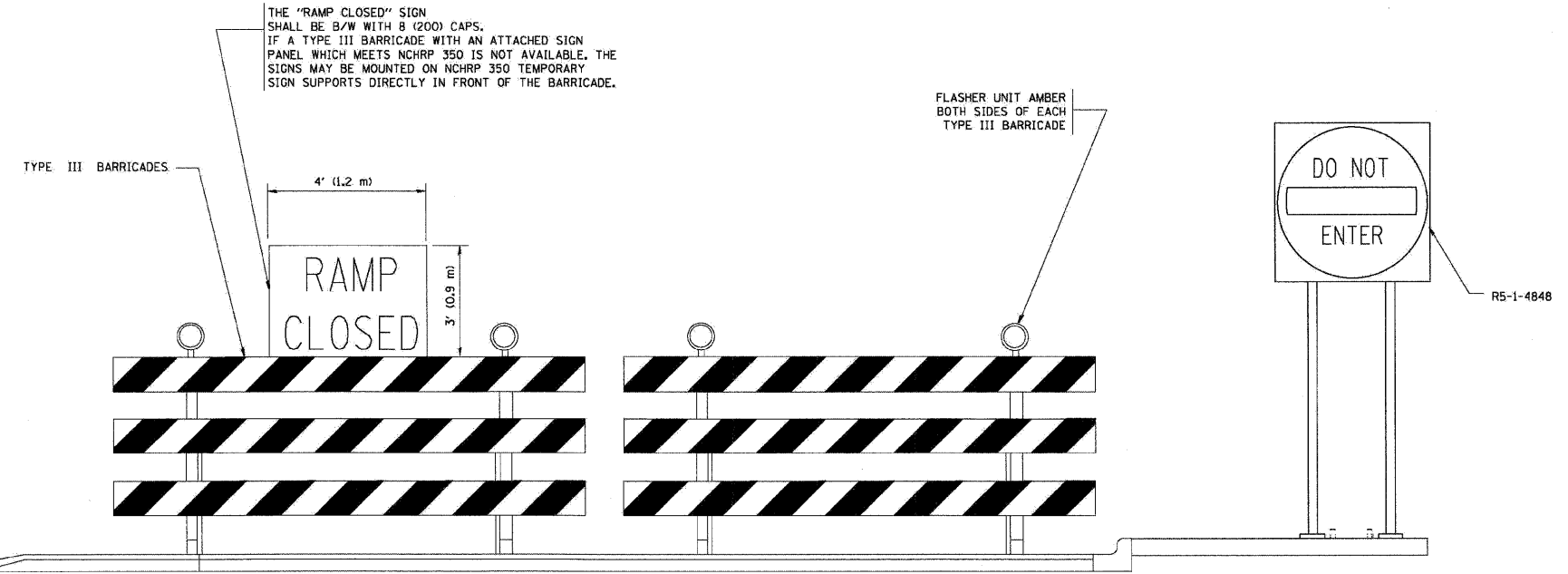
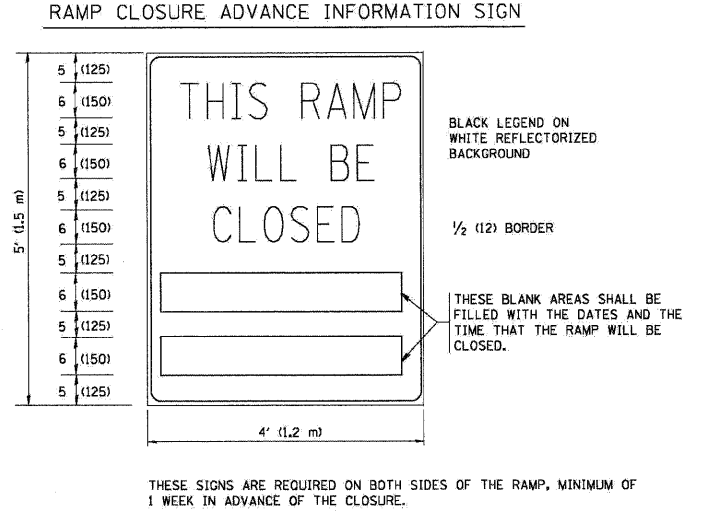
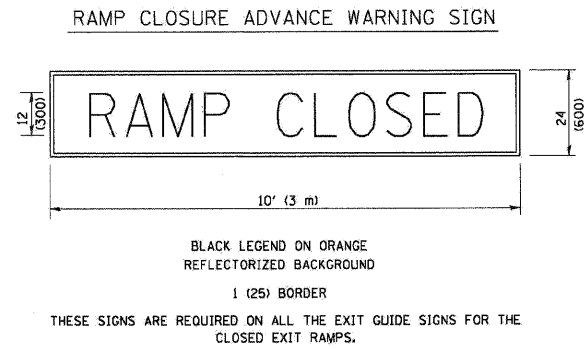
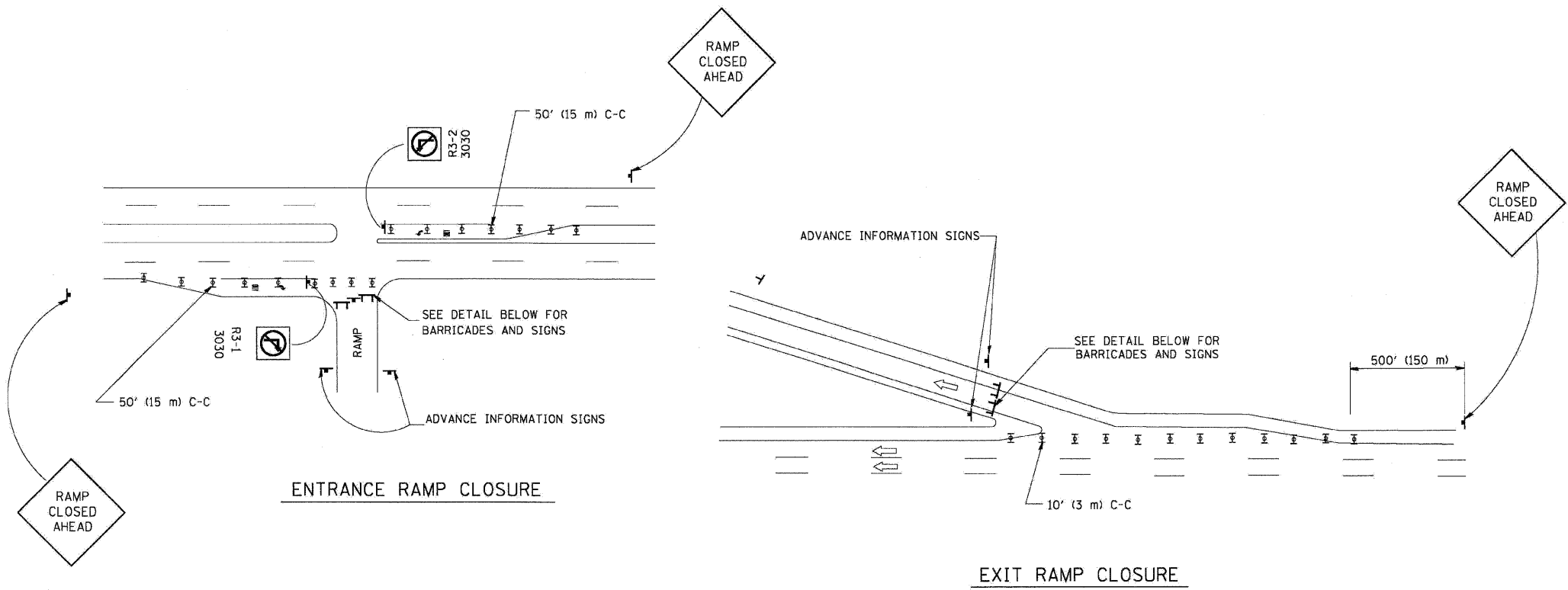
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ELECTRIC CONNECTION TO SIGN STRUCTURE CANTILEVER TYPE**

SCALE: N.T.S. SHEET NO. 8 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(313), ETC., 3435RS-6	COOK	215	207
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60K10	

BE-601



THE "RAMP CLOSED" SIGN SHALL BE B/W WITH 8 (200) CAPS. IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS DIRECTLY IN FRONT OF THE BARRICADE.

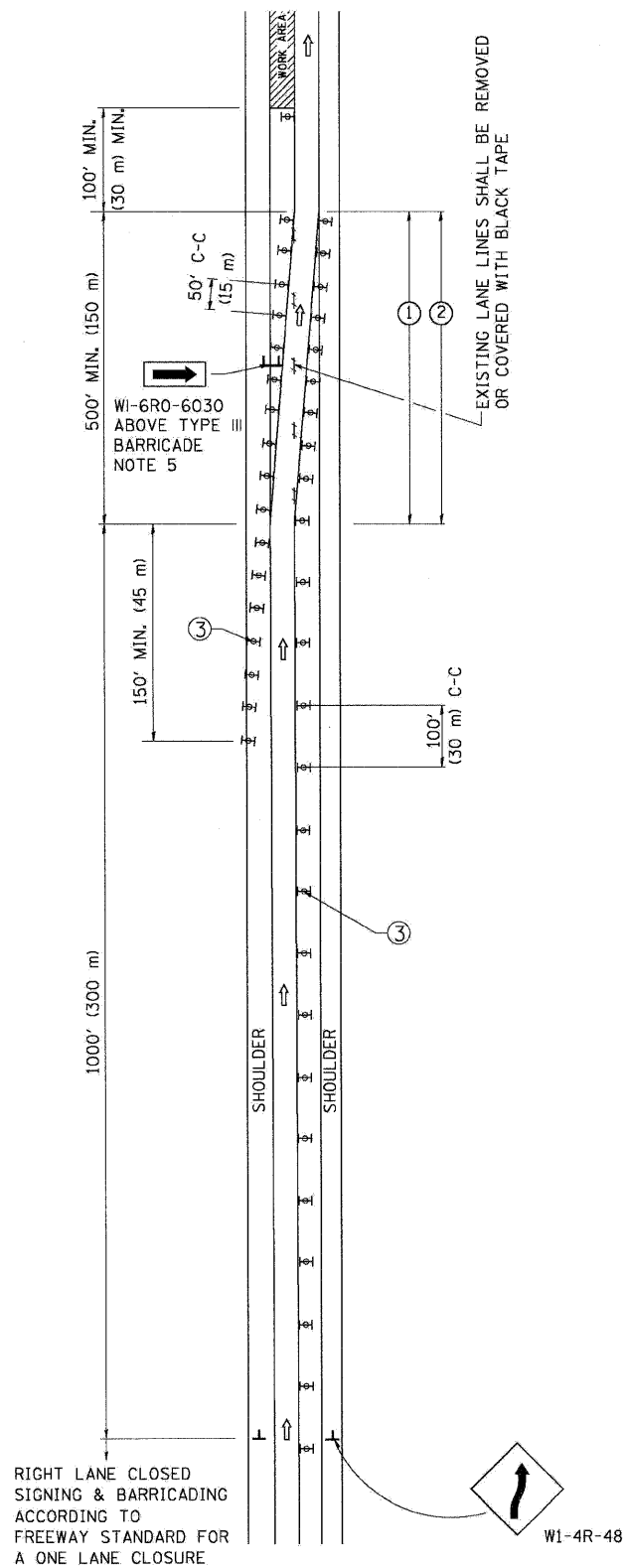
- SYMBOLS**
- ▬ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
  - ▬ TYPE III BARRICADE WITH FLASHING LIGHT

- GENERAL NOTES:**
1. CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
  2. STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
  3. A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
  4. ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
  5. THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
  6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
  7. THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY FOUR (24) HOURS IN LENGTH.

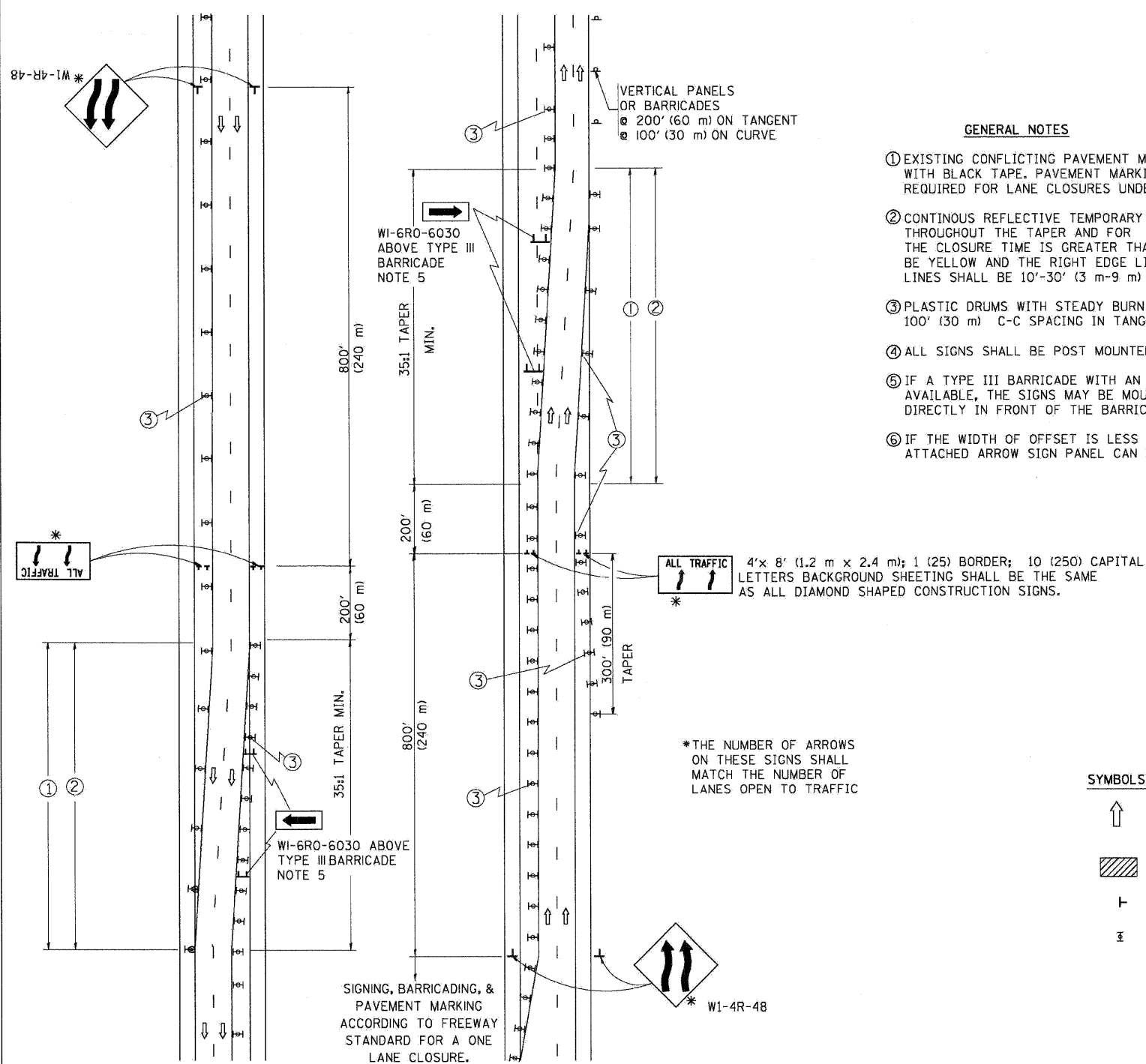
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ENTRANCE AND EXIT RAMP CLOSURE DETAILS</b>			F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME = tblank	DRAWN - TMB	REVISED -			290	(313), ETC., 3435/RS-6	COOK	215	208			
PLOT DATE = 1/25/2010	CHECKED - JMM	REVISED -			SCALE: N.T.S. SHEET NO. 9 OF 16 SHEETS STA. TO STA.		CONTRACT NO. 60K10		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
	DATE - 1/25/10	REVISED -										

# SINGLE LANE WEAVE



# MULTI-LANE WEAVE



### GENERAL NOTES

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED OR COVERED WITH BLACK TAPE. PAVEMENT MARKING REMOVAL OR BLACK TAPE SHALL NOT BE REQUIRED FOR LANE CLOSURES UNDER 24 HOURS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVE LANE LINES SHALL BE 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS DIRECTLY IN FRONT OF THE BARRICADE.
- ⑥ IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.

### SYMBOLS

- ↑ DIRECTION OF TRAFFIC
- ▨ WORK AREA
- ┌ SIGN ON PORTABLE OR PERMANENT SUPPORT
- ⊞ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONO-DIRECTIONAL STEADY BURNING LIGHT

TC-09

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	DESIGNED - AJP	REVISED -
...\\prp\in_ABC_C2_D1_TC-9.dgn	DRAWN - TMB	REVISED -
USER NAME = tblank	CHECKED - JMM	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

**benesch**

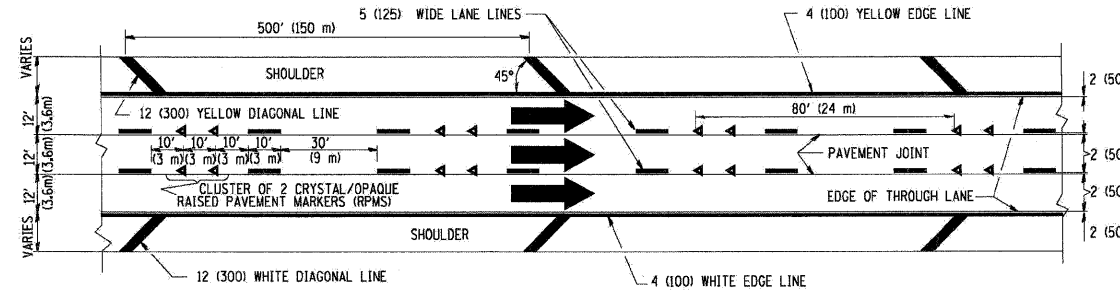
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FREEWAY SINGLE AND MULTI-LANE WEAVE**

SCALE: N.T.S. SHEET NO. 10 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(313), ETC., 3435RS-6	COOK	215	209
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60K10	

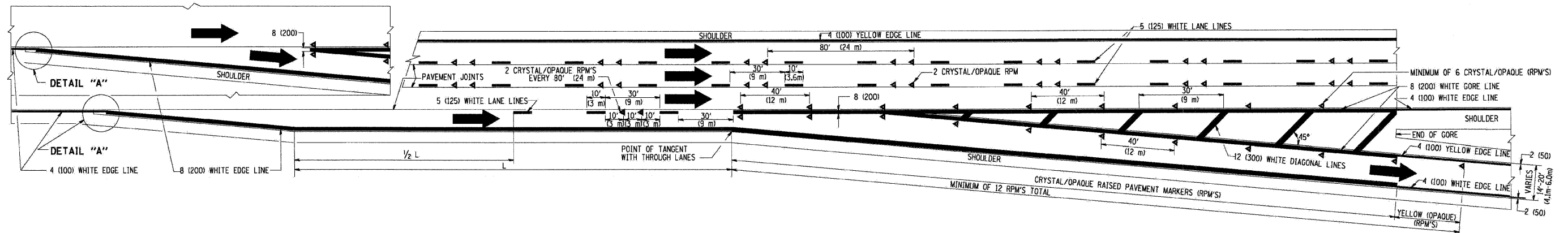
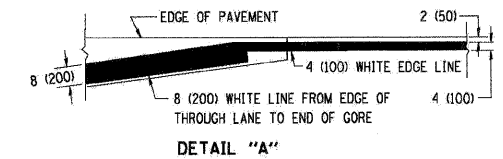
THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH  
 THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH



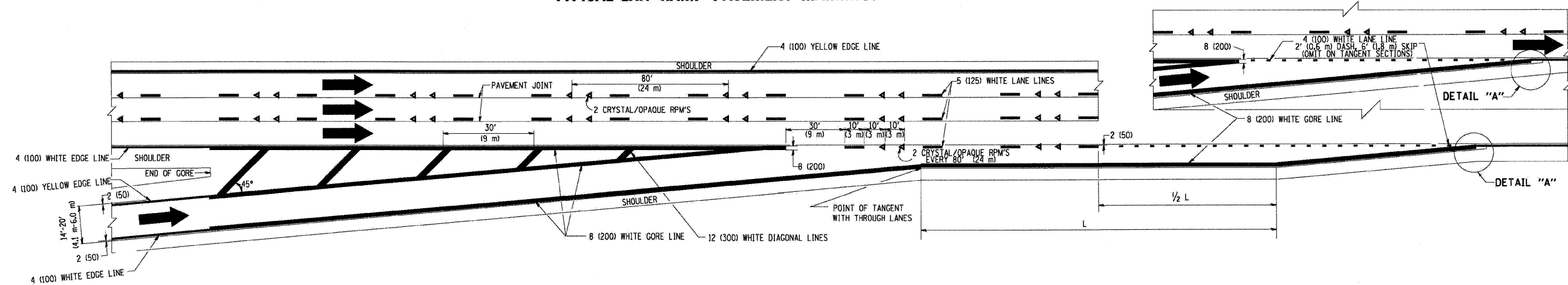
TYPICAL EDGE LINES & LANE LINES

NOTES:

1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE SHALL BE USED FOR ALL LANE LINES ON BITUMINOUS PAVEMENT
3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC

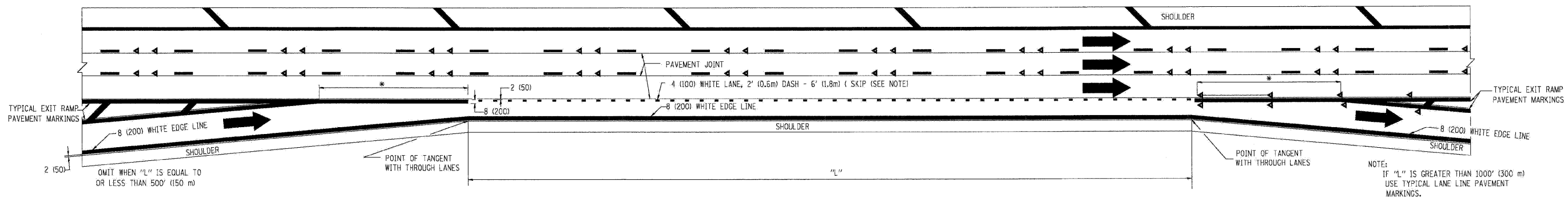


TYPICAL EXIT RAMP PAVEMENT MARKINGS

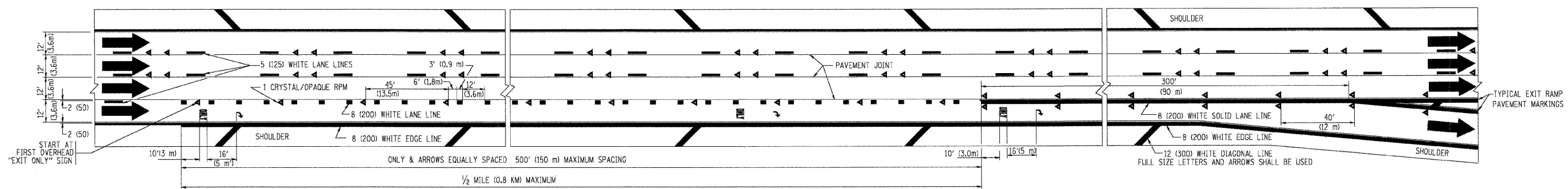


TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS

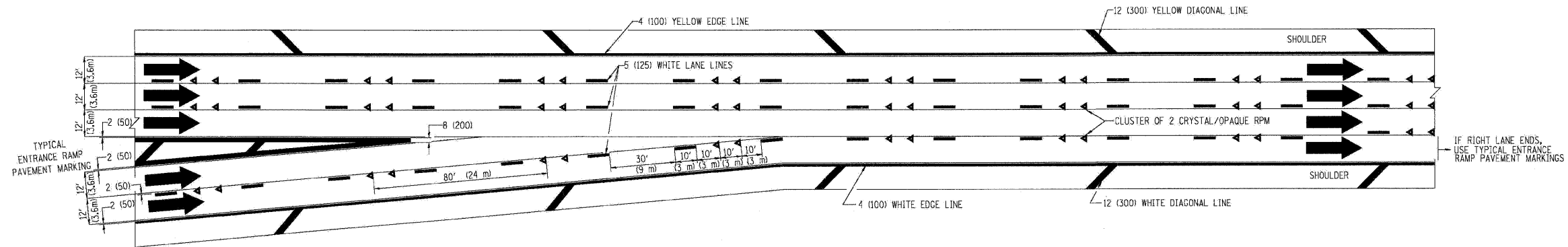
FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MULTI-LANE FREEWAY PAVEMENT MARKING</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
USER NAME = tblank	DRAWN - TMB	REVISED -				290	(313), ETC., 3435RS-6	COOK	215	210
PLOT DATE = 1/25/2010	CHECKED - JMM	REVISED -				CONTRACT NO. 60K10				
	DATE - 1/25/10	REVISED -				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
						SCALE: N.T.S.	SHEET NO. 11 OF 16 SHEETS	STA.	TO STA.	



**TYPICAL ENTRANCE/EXIT RAMP COMBINATION PAVEMENT MARKINGS**



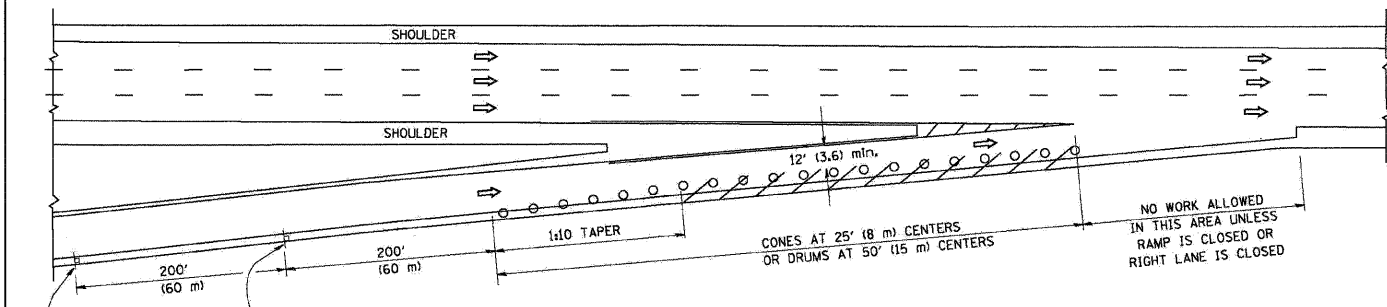
**TYPICAL EXIT ONLY LANE PAVEMENT MARKINGS**



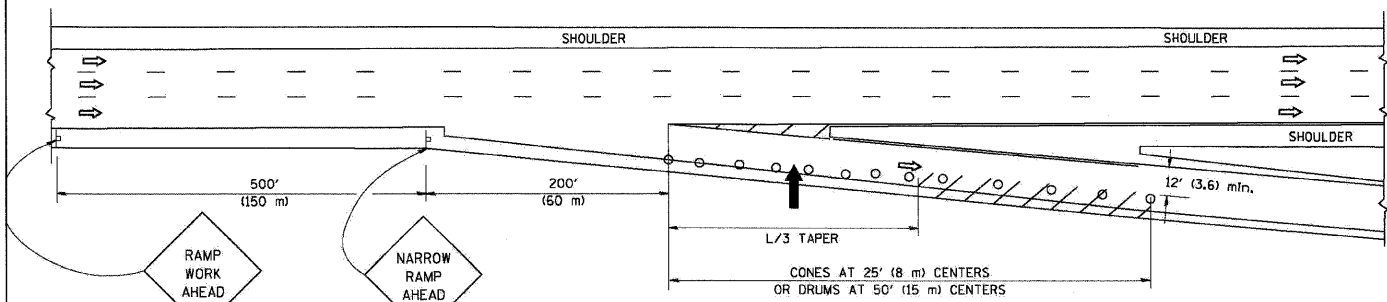
**TYPICAL TWO LANE ENTRANCE RAMP PAVEMENT MARKINGS**

FILE NAME = ...p\p\in_abc.c2.dl.tc-12b.dgn	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MULTI-LANE FREEWAY PAVEMENT MARKING</b>		F.A.I. RTE. 290	SECTION (3131, ETC., 3435)RS-6	COUNTY COOK	TOTAL SHEETS 215	SHEET NO. 211		
USER NAME = tblank	DRAWN - TMB	REVISED -			SCALE: N.T.S.	SHEET NO. 12 OF 16 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		CONTRACT NO. 60K10		
CHECKED - JMM	DATE - 1/25/10	REVISED -											
PLOT DATE = 1/25/2010													

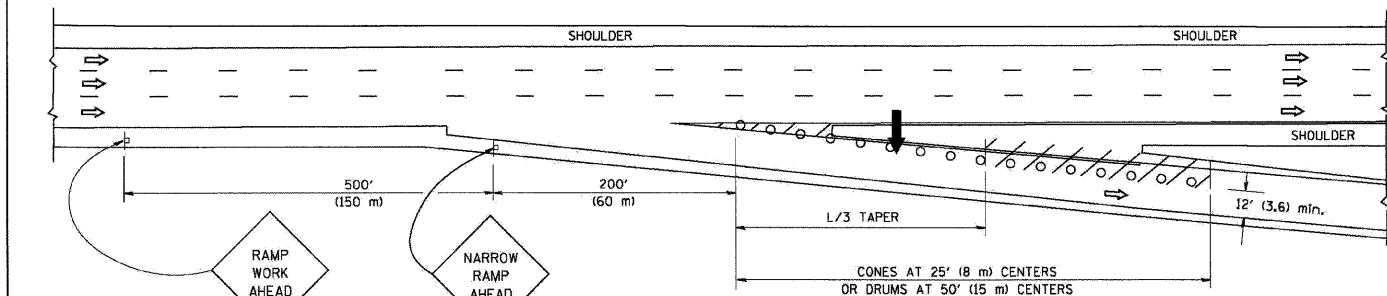
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

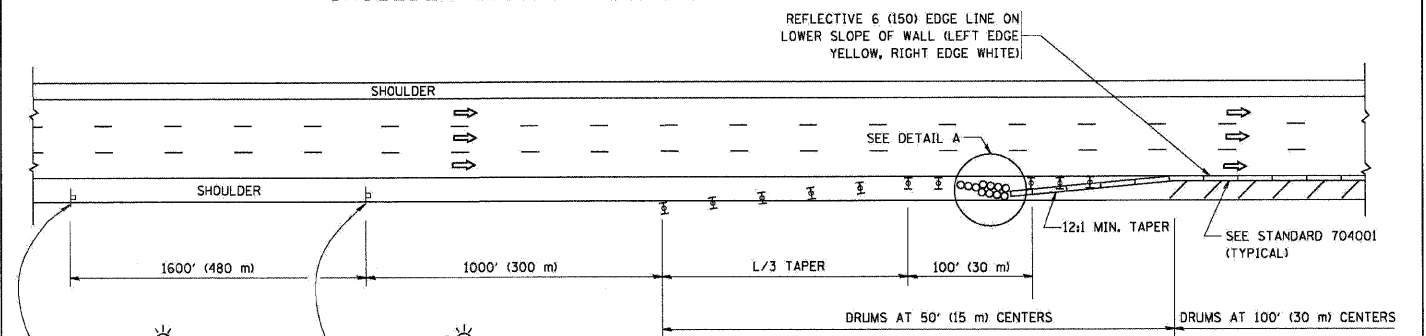
- ARROWBOARD
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

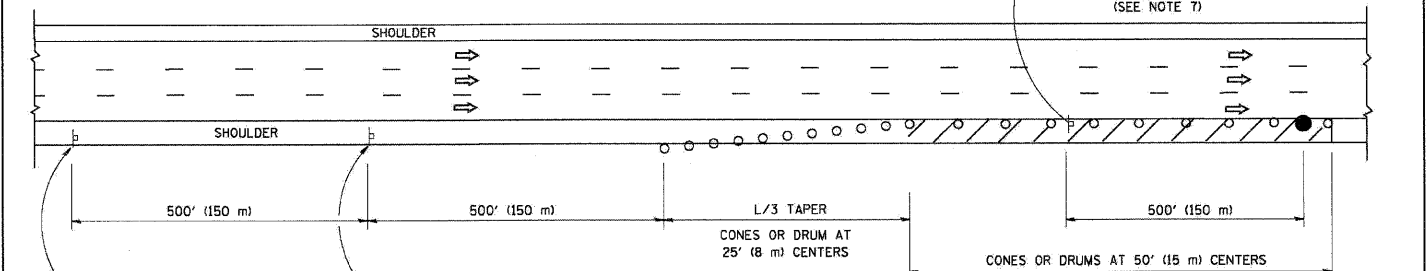
1. THE "L" DISTANCE EQUALS:
 

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC ENGLISH $L=0.65(W/S)$ $L=(W/S)$
W = WIDTH OF OFFSET IN FEET (METERS)	
S = NORMAL POSTED SPEED MPH (KM/H)	
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE



DETAIL "A"  
IMPACT ATTENUATOR, TEMPORARY  
(SEE NOTE 5)

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

FILE NAME =	DESIGNED - AJP	REVISED -
...prp\In_ABC_C2_D1_TC-17.dgn	DRAWN - TMB	REVISED -
USER NAME = tblank	CHECKED - JMM	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

**benesch**

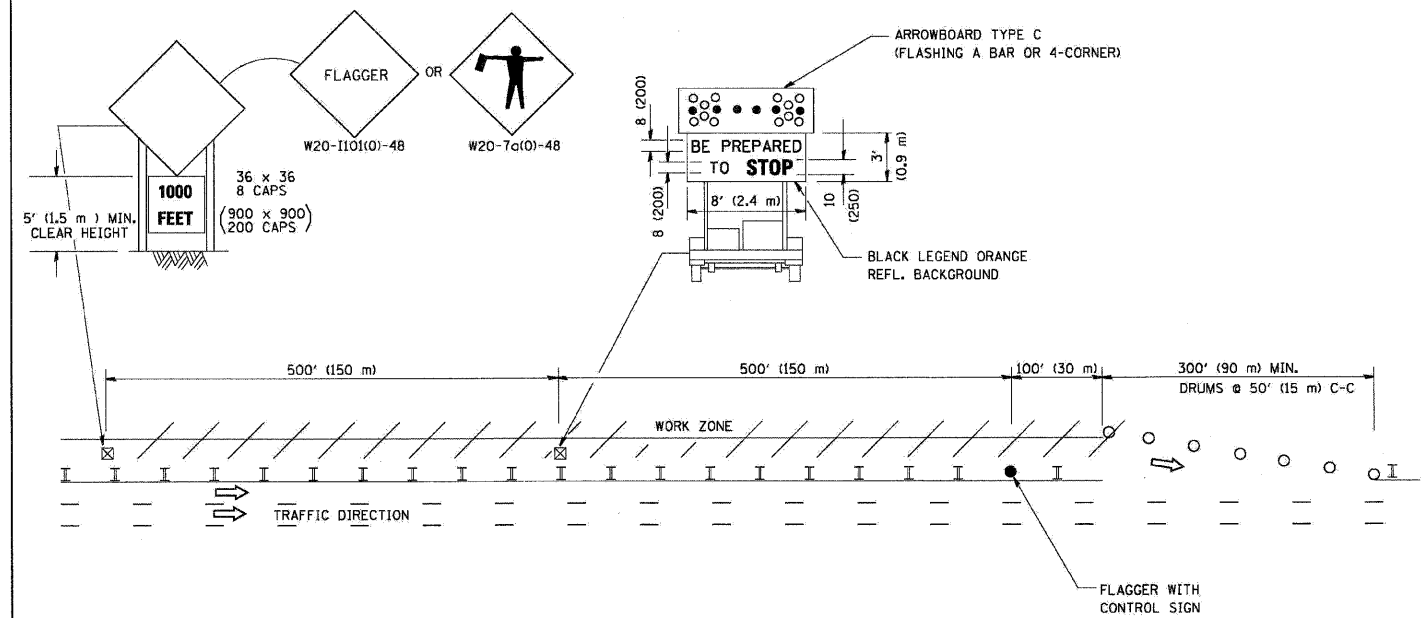
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TRAFFIC CONTROL FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES</b>		F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: N.T.S.		290	(3131, ETC., 3435)RS-6	COOK	215	212
SHEET NO. 13 OF 16 SHEETS STA. TO STA.		CONTRACT NO. 60K10				
		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

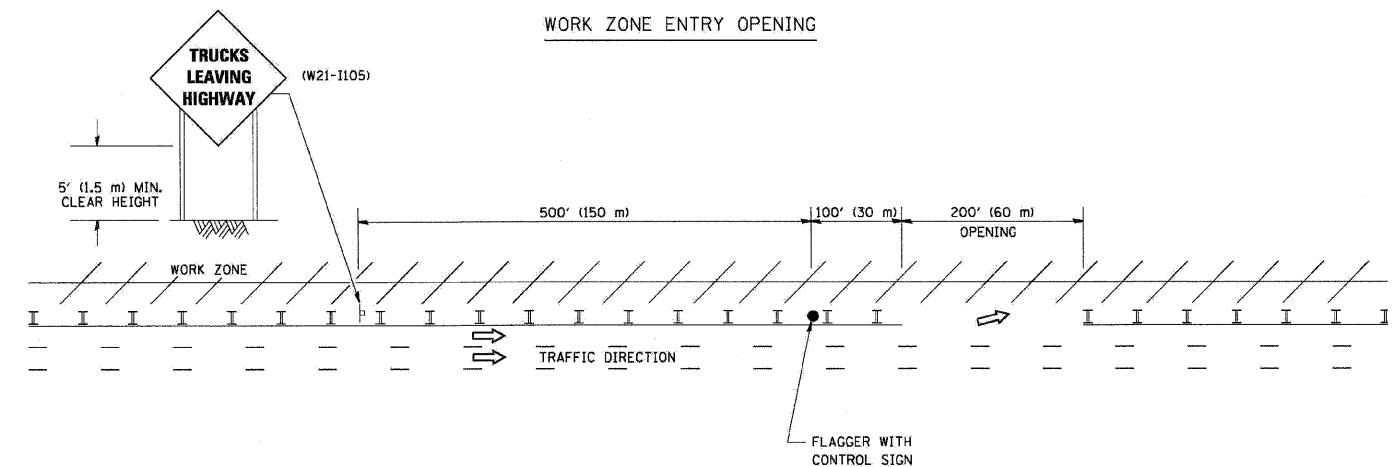


## SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

### WORK ZONE EXIT OPENING



### WORK ZONE ENTRY OPENING



**NOTES:**

1. The Arrowboard, the Flagger Ahead trailer mounted sign, and the Trucks Leaving Highway sign shall be removed or turned away from traffic and the exit and entry openings shall be closed when the flagging operation ceases.
2. Work Zone Exit Openings should be a minimum of one half mile apart.
3. Exiting the work zone at any place other than at a Work Zone Exit Opening will be prohibited.
4. All vehicles shall enter the work zone at entry openings, using their turn signals to warn motorists

**TC-18**

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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USER NAME = tblank	CHECKED - JMM	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

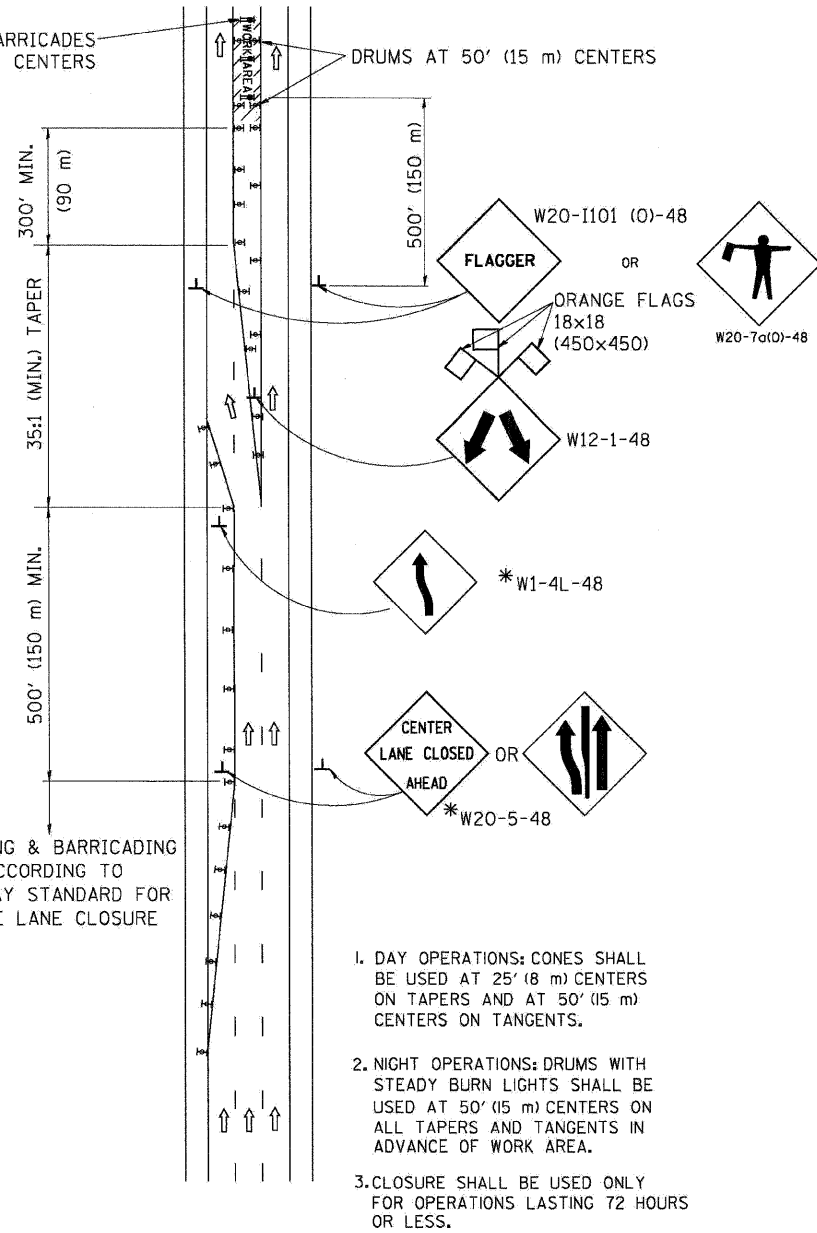
**SIGNING FOR FLAGGING OPERATIONS AT  
WORK ZONE OPENINGS**

SCALE: N.T.S. SHEET NO. 14 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	213
CONTRACT NO. 60K10				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

# CENTER LANE CLOSURE

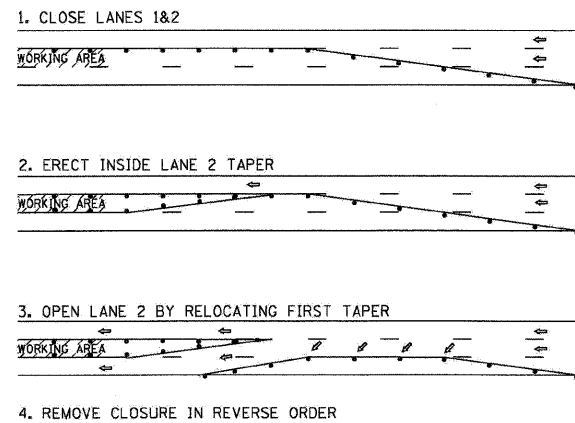
TYPE I CHECK BARRICADES AT 100' (30 m) CENTERS



SIGNING & BARRICADING ACCORDING TO FREEWAY STANDARD FOR A ONE LANE CLOSURE

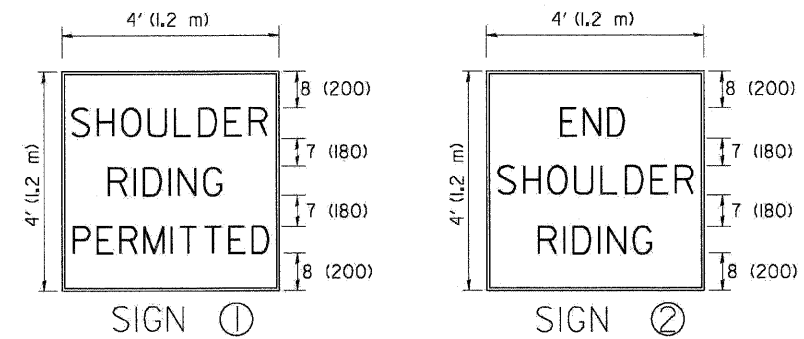
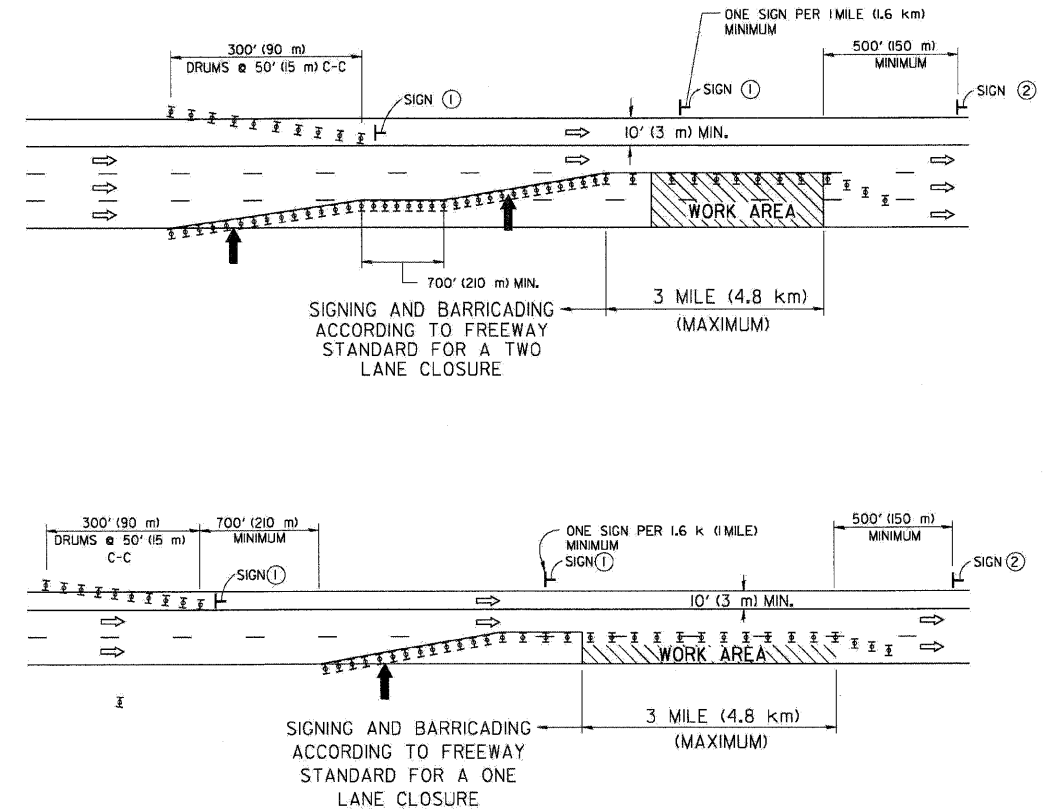
1. DAY OPERATIONS: CONES SHALL BE USED AT 25' (8 m) CENTERS ON TAPERS AND AT 50' (15 m) CENTERS ON TANGENTS.
2. NIGHT OPERATIONS: DRUMS WITH STEADY BURN LIGHTS SHALL BE USED AT 50' (15 m) CENTERS ON ALL TAPERS AND TANGENTS IN ADVANCE OF WORK AREA.
3. CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.

## INSTALLATION SEQUENCE



# SHOULDER LANE

NOTE: CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.



6 (150) SERIES "C" LEGEND  
BLACK LEGEND  
WHITE REFLECT. BACKGROUND  
1 (25) BORDER

## SYMBOLS

- ↑ DIRECTION OF TRAFFIC
- ➔ ARROWBOARD
- ▨ WORK AREA
- ◇ SIGN WITH 18x18 (450x450) ORANGE FLAGS ATTACHED \*
- ┌ SIGN ON PORTABLE OR PERMANENT SUPPORT \*
- ⊥ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHT

TC-25

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

\* ALL SIGNS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).

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...\\ppln\ABC_C2.D1.TC-25.dgn	DRAWN - TMB	REVISED -
USER NAME = tblank	CHECKED - JMM	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

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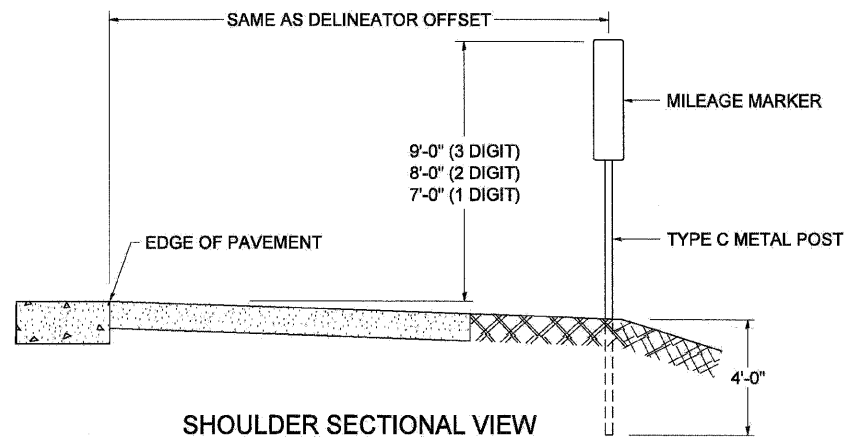
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY  
CENTER LANE CLOSURE SHOULDER LANE

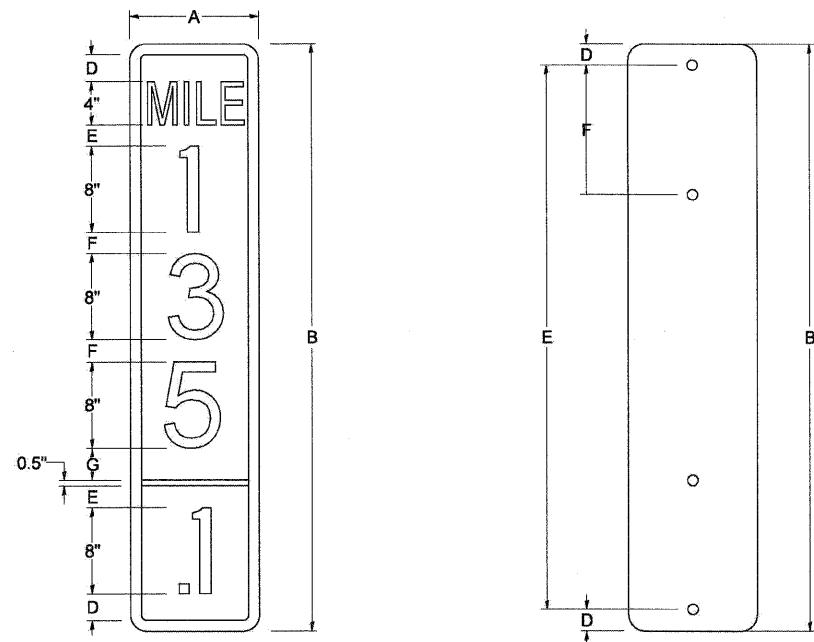
SCALE: N.T.S. SHEET NO. 15 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	214
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60K10	

STANDARD DESIGN FOR MILE POST



SHOULDER SECTIONAL VIEW

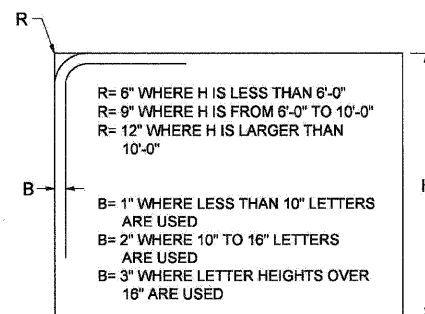


SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	DIGIT
12 x 24	12.0	24.0	1.5	1.5	1.5	N/A	1.5	1
12 x 36	12.0	36.0	1.5	2.0	2.0	2.0	1.5	2
12 x 48	12.0	48.0	1.5	2.5	2.0	2.0	2.5	3

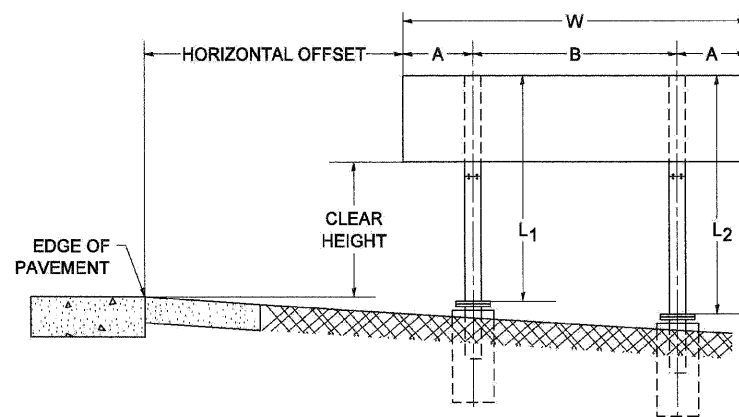
BLANK	A	B	C	D	E	F
B9-1224	12.0	24.0	1.5	2.0	20.0	N/A
B9-1236	12.0	36.0	1.5	2.0	32.0	12.0
B9-1248	12.0	48.0	1.5	2.0	44.0	12.0

SIGN SIZE	SERIES					BORDER	BLANK STD.
	1	2	3	4	5		
12 x 24	4C	8D	4C	N/A	N/A	0.5	B9-1224
12 x 36	4C	8D	8D	4C	N/A	0.5	B9-1236
12 x 48	4C	8D	8D	8D	4C	0.5	B9-1248

BORDER AND RADIUS LAYOUT



MAJOR GUIDE SIGN LAYOUT

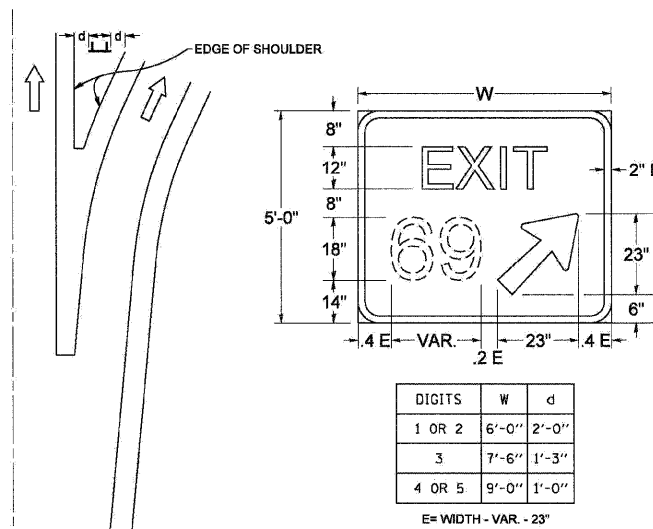


NUMBER OF STEEL SUPPORTS	A	B
2	.2 W	.6 W
3	.15 W	.35 W
4	.125 W	.25 W
5	.1 W	.2 W

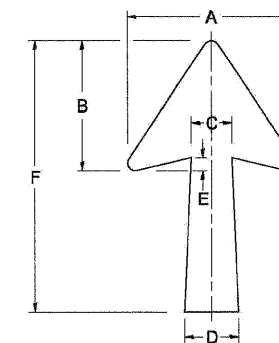
"L1 IS THE LENGTH OF SUPPORT, NOT INCLUDING THE STUB PROJECTION, CLOSEST TO THE EDGE OF THE PAVEMENT.

"A" IS THE DISTANCE FROM THE SIGN EDGE TO THE CENTERLINE OF THE NEAREST SUPPORT. "B" IS THE DISTANCE BETWEEN CENTERLINES OF SUPPORTS.

GORE SIGNS

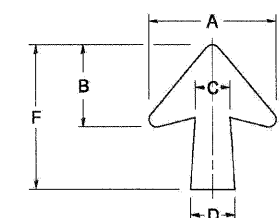


STANDARD ARROWS FOR INTERSTATE GUIDE SIGNS



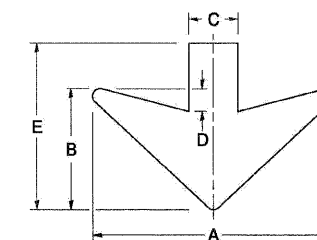
ARROW SYMBOL	A	B	C	D	E	F	R
24 1/4 x 15 1/8	15 1/8	11 3/8	3 3/4	5	1 1/2	24 1/4	9/8
29 1/4 x 18 1/4	18 1/4	14	4 1/2	6	1 1/2	29 1/4	3/4
35 5/8 x 22 1/4	22 1/4	17	5 3/8	7 1/8	1 3/4	35 5/8	1
18 1/4 x 11 1/4	11 1/4	8 3/4	3 3/8	3 3/8		18 1/4	

NOTE: D & F ARE RECOMMENDED DIMENSIONS. TAPER SHOULD BE HELD CONSTANT FOR LONGER OR SHORTER SHAFT LENGTHS



ARROW SYMBOL	A	B	C	D	E	F	R
17 1/4 x 14 1/4	14 1/4	9 3/8	3 3/8	4 1/2	5/8	17 1/4	3/4
20 3/4 x 17 1/4	17 1/4	11 3/4	4 3/8	5 5/8	1 1/2	20 3/4	
25 x 21 1/8	21 1/8	14 1/4	5	6 3/4	1 3/4	25	1
9 3/8 x 8 3/8	8 3/8	5 3/8	2 3/8	2 3/8		9 3/8	1/2

DOWN ARROWS



ARROW SYMBOL	A	B	C	D	E	R
16 1/2 x 24	24	12	5	1 1/2	16 1/2	3/4
22 x 32	32	16	6 1/2	3	22	1

FILE NAME =	DESIGNED - AJP	REVISED -
...prp\In_ABC_C2_D1_TC_27.dgn	DRAWN - TMB	REVISED -
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PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MILE POST MARKERS - GORE SIGNS -  
MAJOR GUIDE SIGN LAYOUT - ARROWS

SCALE: N.T.S. SHEET NO. 16 OF 16 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(3131, ETC., 3435)RS-6	COOK	215	215
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60K10	