

**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 ON M.L. AND 150' CENTERS ON RAMPS)</li> <li>⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS ON M.L. AND 150' CENTERS ON RAMPS)</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> </ul> | <ul style="list-style-type: none"> <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> <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> </ul> | <ul style="list-style-type: none"> <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 ON M.L. AND 40' CENTERS ON STRUCTURES)</li> <li>㉓ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (WHITE DIAGONALS SPACED @ 500' CENTERS ON M.L. AND 40' CENTERS ON STRUCTURES)</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. SEE ROADWAY PLANS FOR LIMITS OF RESURFACING.

FILE NAME =	DESIGNED - CAG	REVISED -
...p\p\in_abc_c3_290_pvm\mkkg_05.dgn	DRAWN - DMS	REVISED -
USER NAME = jmo_ewaki	CHECKED - CAR	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

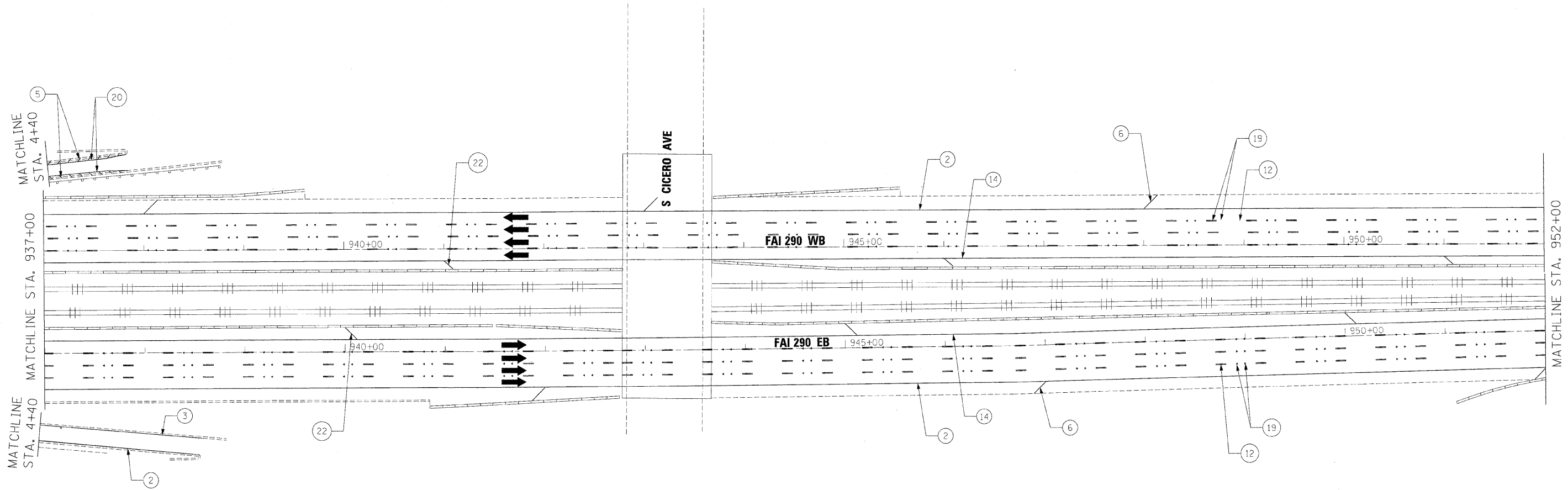
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLANS  
STA 922+00 TO STA 937+00**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131RS-7)	COOK	216	101
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60G53	



**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 ON M.L. AND 40' CENTERS ON RAMPS)</li> <li>⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS ON M.L. AND 150' CENTERS ON RAMPS)</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> </ul> | <ul style="list-style-type: none"> <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> <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> </ul> | <ul style="list-style-type: none"> <li>⑳ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE THRU LANE LINE)</li> <li>㉑ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS ON M.L. AND 40' CENTERS ON STRUCTURES)</li> <li>㉒ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (WHITE DIAGONALS SPACED @ 500' CENTERS ON M.L. AND 40' CENTERS ON STRUCTURES)</li> <li>㉓ POLYUREA PAVEMENT MARKING TYPE 1, LETTERS AND SYMBOLS (WHITE)</li> <li>㉔ POLYUREA PAVEMENT MARKING TYPE 1, LINE 8" (WHITE 3' DASH, 9' SKIP)</li> <li>㉕ 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. SEE ROADWAY PLANS FOR LIMITS OF RESURFACING.

FILE NAME -	DESIGNED - CAC	REVISED -
...p\p\in_abc\c3.290.pvmtmkg_06.dgn	DRAWN - DMS	REVISED -
USER NAME - jnojewski	CHECKED - CAR	REVISED -
PLDT DATE - 1/25/2010	DATE - 1/25/10	REVISED -

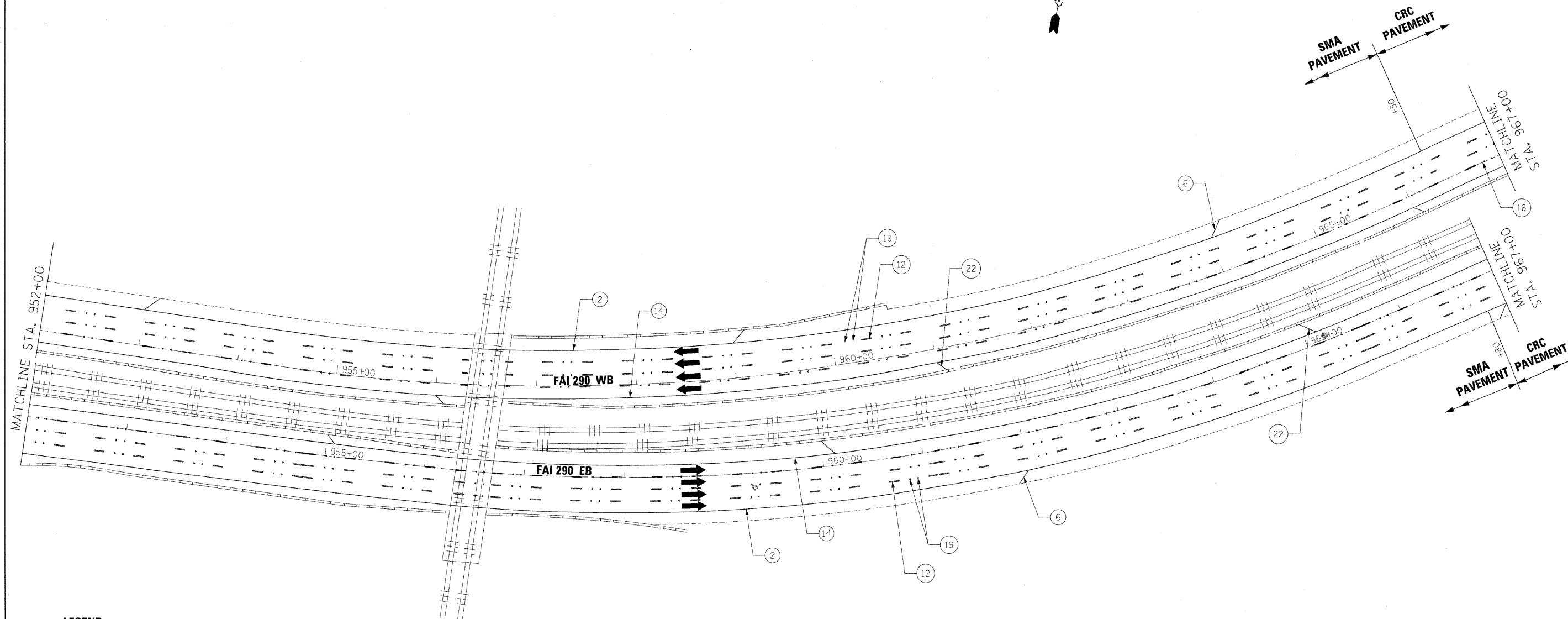
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLANS  
STA 937+00 TO STA 952+00**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 313)RS-7	COOK	216	102
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60G53	



**LEGEND**

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|--|--|---|
| ① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)   | ⑪ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID, LINE 8" (WHITE 3' DASH, 9' SKIP)   | ⑲ RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL / OPAQUE)  |
| ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE EDGE LINE)   | ⑫ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID, LINE 5" (WHITE 10' DASH, 30' SKIP) | ⑳ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE EDGE LINE)   |
| ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW EDGE LINE)  | ⑬ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (WHITE EDGE LINE)                            | ㉑ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE THRU LANE LINE)   |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE EDGE LINE)   | ⑭ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (YELLOW EDGE LINE)                           | ㉒ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS ON M.L. AND 40' CENTERS ON STRUCTURES) |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE DIAGONALS SPACED @ 10' CENTERS)                                      | ⑮ POLYUREA PAVEMENT MARKING TYPE 1, LINE 8" (WHITE EDGE LINE)                            | ㉓ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (WHITE DIAGONALS SPACED @ 500' CENTERS ON M.L. AND 40' CENTERS ON STRUCTURES)  |
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| ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE GORE DIAGONALS SPACED @ 30' CENTERS)                                | ⑱ RAISED REFLECTIVE PAVEMENT MARKER (1-WAY YELLOW / OPAQUE)                              | ㉖ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (WHITE 2' DASH, 6' SKIP)  |
| ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE)  | ⑳ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE EDGE LINE)                            |   |
| ⑩ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID, LINE 4" (WHITE 2' DASH, 6' SKIP)                                 |  |   |

**NOTE:**

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FILE NAME -	DESIGNED - CAG	REVISED -
...p\p\in_abc.c3.290.pvmtknkg.07.dgn	DRAWN - DMS	REVISED -
USER NAME - jmojevski	CHECKED - CAR	REVISED -
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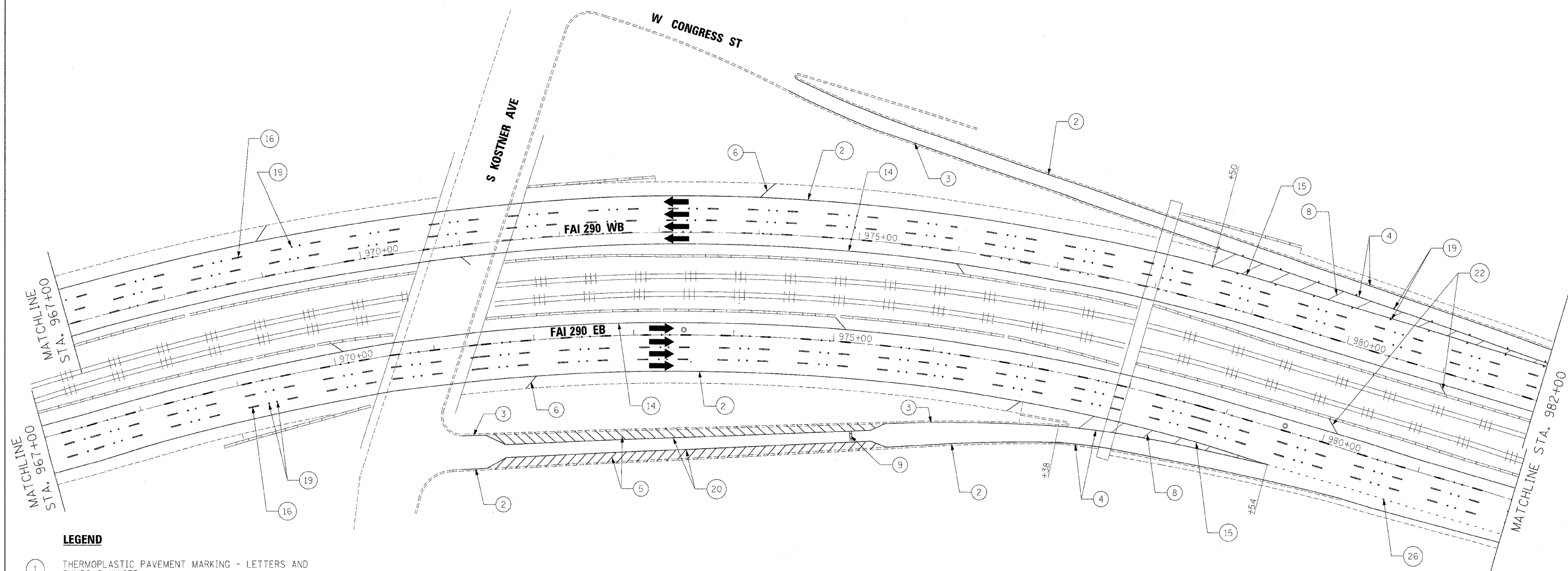
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLANS  
STA 952+00 TO STA 967+00**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	103
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 60G53		



**LEGEND**

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**NOTE:**

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FILE NAME =	DESIGNED - CAG	REVISED -
...\\plbln_abc_c3_290_pvmtrkg_08.dgn	DRAWN - DMS	REVISED -
USER NAME = jma_ewski	CHECKED - CAR	REVISED -
PLOT DATE = 1/25/2012	DATE - 1/25/10	REVISED -

**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

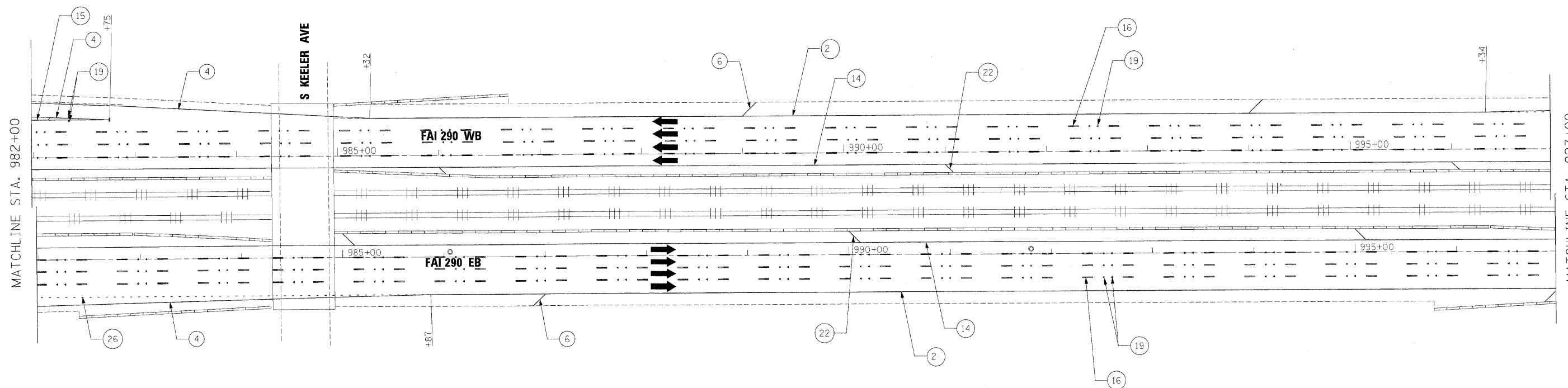
**PAVEMENT MARKING PLANS  
STA 967+00 TO STA 982+00**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131RS-7)	COOK	216	104
CONTRACT NO. 60G53				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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USER NAME = jmojewski	CHECKED - CAR	REVISED -
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**benesch**

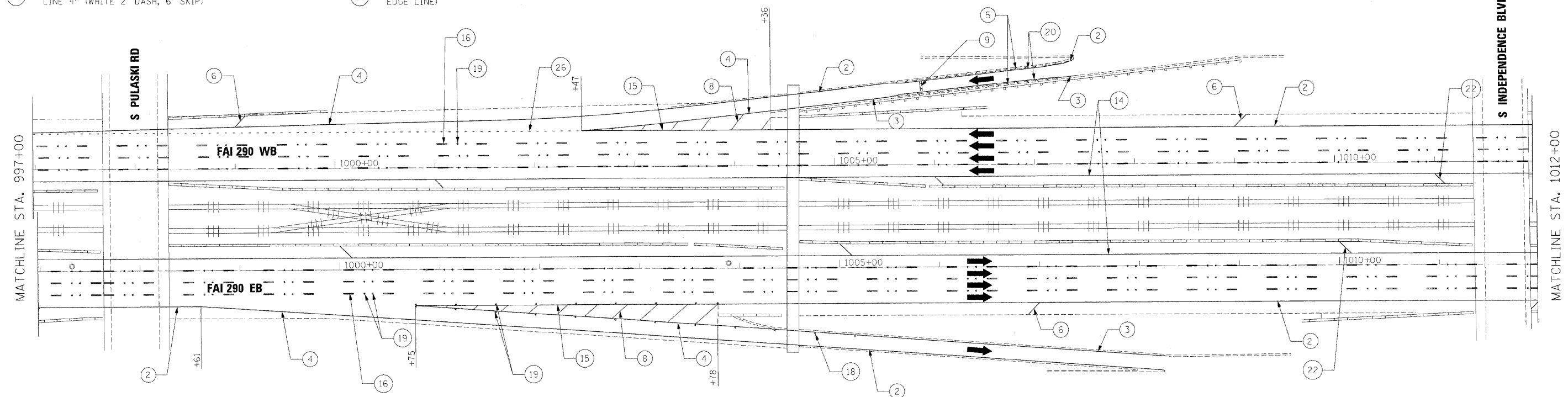
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLANS STA 982+00 TO STA 997+00			
SCALE: 1"=50'	SHEET NO. 9 OF 14 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	105
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C53	

**LEGEND**

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| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE EDGE LINE)   | ⑭ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (YELLOW EDGE LINE)                           | ㉓ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (WHITE DIAGONALS SPACED @ 500' CENTERS ON M.L. AND 40' CENTERS ON STRUCTURES)  |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE DIAGONALS SPACED @ 10' CENTERS)                                      | ⑮ POLYUREA PAVEMENT MARKING TYPE 1, LINE 8" (WHITE EDGE LINE)                            | ㉔ POLYUREA PAVEMENT MARKING TYPE 1, LETTERS AND SYMBOLS (WHITE)   |
| ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS SPACED @ 500' CENTERS ON M.L. AND 150' CENTERS ON RAMPS)  | ⑯ POLYUREA PAVEMENT MARKING TYPE 1, LINE 8" (WHITE EDGE LINE)                            | ㉕ POLYUREA PAVEMENT MARKING TYPE 1, LINE 8" (WHITE 3' DASH, 9' SKIP)  |
| ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS ON M.L. AND 150' CENTERS ON RAMPS) | ⑰ POLYUREA PAVEMENT MARKING TYPE 1, LINE 5" (WHITE 10' DASH, 30' SKIP)                   | ㉖ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (WHITE 2' DASH, 6' SKIP)  |
| ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE GORE DIAGONALS SPACED @ 30' CENTERS)                                | ⑱ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (WHITE GORE DIAGONALS SPACED @ 30' CENTERS) |   |
| ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE)  | ⑲ RAISED REFLECTIVE PAVEMENT MARKER (1-WAY YELLOW / OPAQUE)                              |   |
| ⑩ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B, INLAID, LINE 4" (WHITE 2' DASH, 6' SKIP)                                 | ⑳ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE EDGE LINE)                            |   |



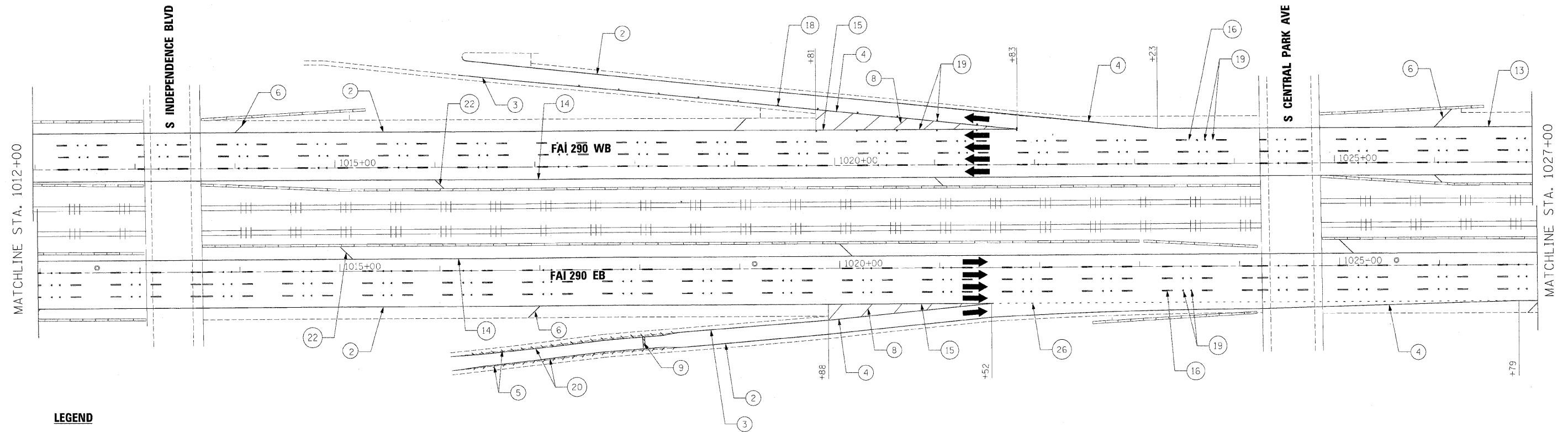
- NOTE:**
- SEE IDOT DISTRICT 1 STANDARD TC-12 "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" FOR PLACEMENT AND TYPE OF RAISED REFLECTIVE PAVEMENT MARKERS.
  - FOR PROPOSED PAVEMENT MARKINGS IN THE PCC SECTIONS, USE POLYUREA PAVEMENT MARKINGS ACCORDING TO STANDARD TC-12.
  - SEE ROADWAY PLANS FOR LIMITS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

FILE NAME = ...	DESIGNED - CAG	REVISED -
USER NAME = jmojewski	DRAWN - DMS	REVISED -
PLOT DATE = 1/25/2010	CHECKED - CAR	REVISED -
	DATE - 1/25/10	REVISED -

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

**PAVEMENT MARKING PLANS**  
**STA 997+00 TO STA 1012+00**  
 SCALE: 1"=50' SHEET NO. 10 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	106
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60653	



**LEGEND**

- |   |  |   |
|---|--|---|
| <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 ON M.L. AND 150' CENTERS ON RAMP)</li> <li>⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS ON M.L. AND 150' CENTERS ON RAMP)</li> <li>⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE CORE 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> </ul> | <ul style="list-style-type: none"> <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> <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 CORE 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> </ul> | <ul style="list-style-type: none"> <li>⑳ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE THRU LANE LINE)</li> <li>㉑ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS ON M.L. AND 40' CENTERS ON STRUCTURES)</li> <li>㉒ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (WHITE DIAGONALS SPACED @ 500' CENTERS ON M.L. AND 40' CENTERS ON STRUCTURES)</li> <li>㉓ POLYUREA PAVEMENT MARKING TYPE 1, LETTERS AND SYMBOLS (WHITE)</li> <li>㉔ POLYUREA PAVEMENT MARKING TYPE 1, LINE 8" (WHITE 3' DASH, 9' SKIP)</li> <li>㉕ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (WHITE 2' DASH, 6' SKIP)</li> </ul> |
|---|--|---|

**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. SEE ROADWAY PLANS FOR LIMITS OF RESURFACING.

FILE NAME =	DESIGNED - CAG	REVISED -
...p1p1n_ABC.C3.290_pvm.tskg.11.dgn	DRAWN - DMS	REVISED -
USER NAME = jnojewski	CHECKED - CAR	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

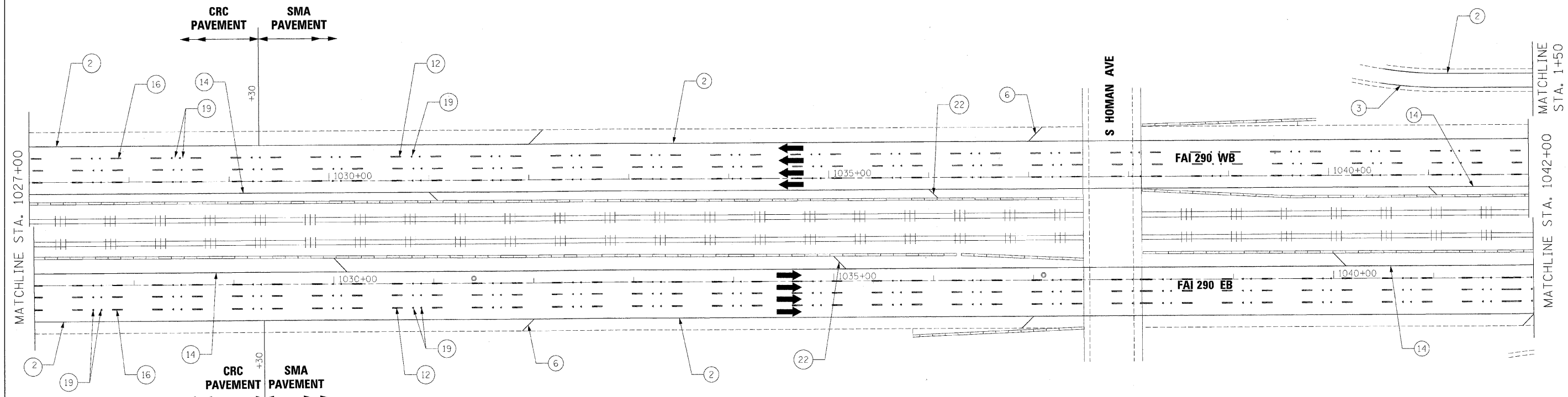
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLANS  
STA 1012+00 TO STA 1027+00**

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

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 313)RS-7	COOK	216	107
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60653	



**LEGEND**

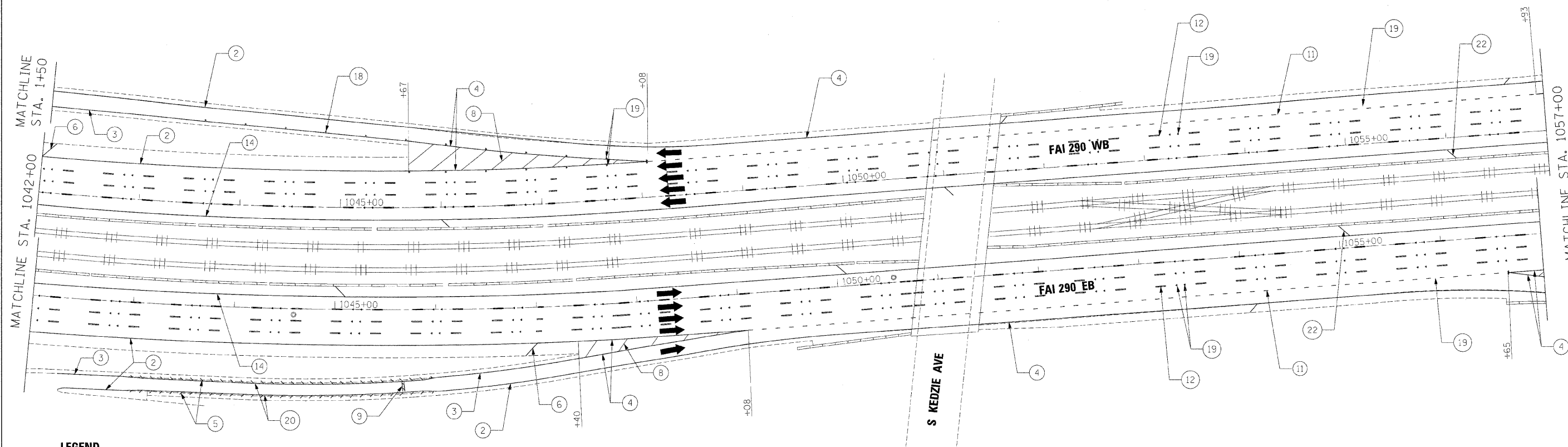
- |   |  |   |
|---|--|---|
| <ul style="list-style-type: none"> <li>① THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)</li> <li>② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE EDGE LINE)</li> <li>③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW EDGE LINE)</li> <li>④ THERMOPLASTIC PAVEMENT 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 ON M.L. AND 150' CENTERS ON RAMP)</li> <li>⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS ON M.L. AND 150' CENTERS ON RAMP)</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> </ul> | <ul style="list-style-type: none"> <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> <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 CRYSTAL / OPAQUE)</li> <li>⑲ RAISED REFLECTIVE PAVEMENT MARKER (1-WAY YELLOW / OPAQUE)</li> <li>⑳ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE EDGE LINE)</li> </ul> | <ul style="list-style-type: none"> <li>⑳ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE THRU-LANE LINE)</li> <li>㉑ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS ON M.L. AND 40' CENTERS ON STRUCTURES)</li> <li>㉒ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (WHITE DIAGONALS SPACED @ 500' CENTERS ON M.L. AND 40' CENTERS ON STRUCTURES)</li> <li>㉓ POLYUREA PAVEMENT MARKING TYPE 1, LETTERS AND SYMBOLS (WHITE)</li> <li>㉔ POLYUREA PAVEMENT MARKING TYPE 1, LINE 8" (WHITE 3' DASH, 9' SKIP)</li> <li>㉕ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (WHITE 2' DASH, 6' SKIP)</li> </ul> |
|---|--|---|

**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. SEE ROADWAY PLANS FOR LIMITS OF RESURFACING.

FILE NAME =	DESIGNED - CAG	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING PLANS STA 1027+00 TO STA 1042+00</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
USER NAME = jma_ewskj	DRAWN - DMS	REVISED -			290	(2727, ETC., 313)RS-7	COOK	216	108					
PLOT DATE = 1/25/2010	CHECKED - CAR	REVISED -			SCALE: 1"=50'			SHEET NO. 12 OF 14 SHEETS STA. TO STA.			CONTRACT NO. 60G53			
	DATE - 1/25/10	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT									





**LEGEND**

- |   |  |   |
|---|--|---|
| <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 ON M.L. AND 150' CENTERS ON RAMPS)</li> <li>⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS ON M.L. AND 150' CENTERS ON RAMPS)</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> </ul> | <ul style="list-style-type: none"> <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> <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> </ul> | <ul style="list-style-type: none"> <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 ON M.L. AND 40' CENTERS ON STRUCTURES)</li> <li>㉓ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (WHITE DIAGONALS SPACED @ 500' CENTERS ON M.L. AND 40' CENTERS ON STRUCTURES)</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> |
|---|--|---|

**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. SEE ROADWAY PLANS FOR LIMITS OF RESURFACING.

FILE NAME =	DESIGNED - CAG	REVISED -
USER NAME = jma_gwsk	DRAWN - DMS	REVISED -
PLOT DATE = 1/25/2010	CHECKED - CAR	REVISED -
	DATE - 1/25/10	REVISED -

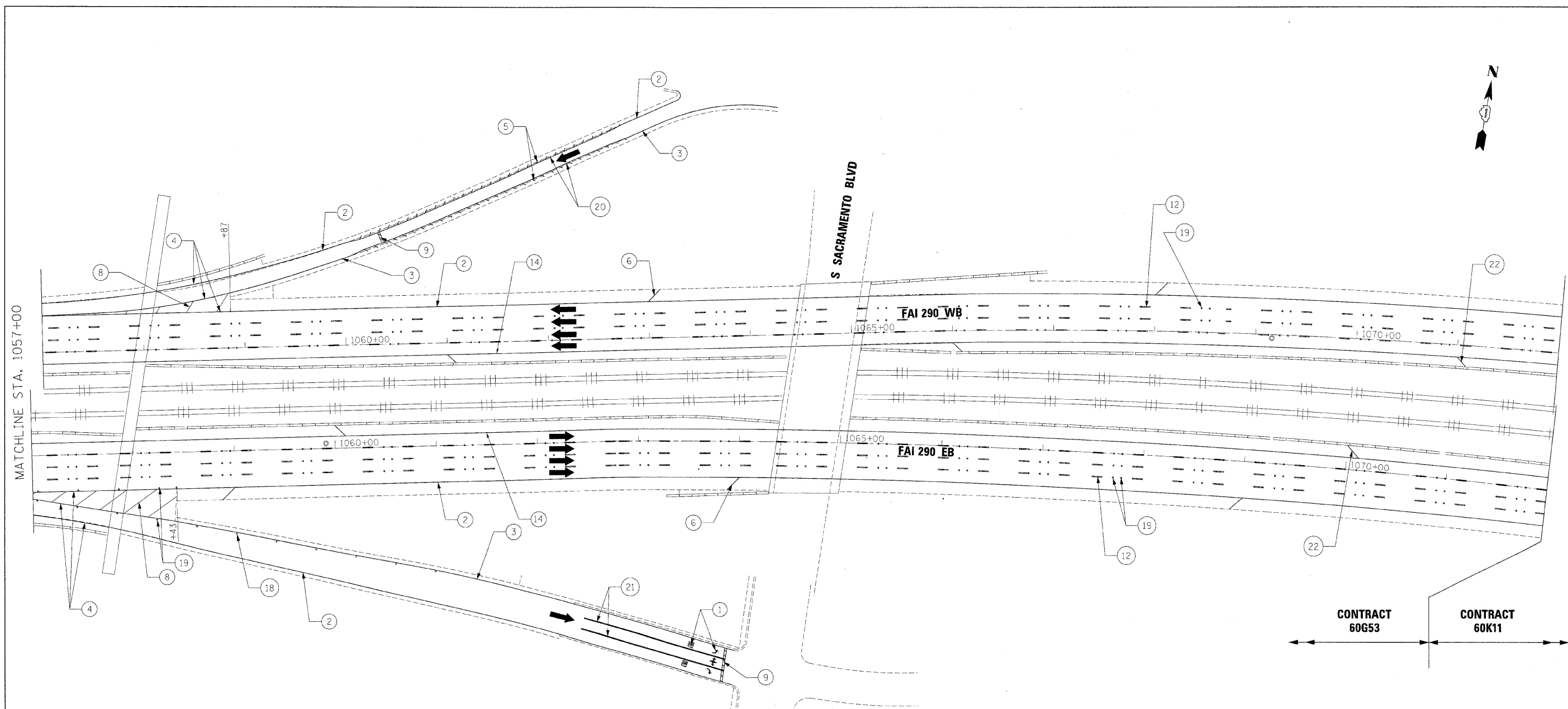
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLANS  
STA 1042+00 TO STA 1057+00**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COCK	216	109
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60G53	



**LEGEND**

- |   |  |   |
|---|--|---|
| <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 ON M.L. AND 150' CENTERS ON RAMP)</li> <li>⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS ON M.L. AND 150' CENTERS ON RAMP)</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> </ul> | <ul style="list-style-type: none"> <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> <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> </ul> | <ul style="list-style-type: none"> <li>⑳ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE THRU LANE LINE)</li> <li>㉑ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (YELLOW DIAGONALS SPACED @ 500' CENTERS ON M.L. AND 40' CENTERS ON STRUCTURES)</li> <li>㉒ POLYUREA PAVEMENT MARKING TYPE 1, LINE 12" (WHITE DIAGONALS SPACED @ 500' CENTERS ON M.L. AND 40' CENTERS ON STRUCTURES)</li> <li>㉓ POLYUREA PAVEMENT MARKING TYPE 1, LETTERS AND SYMBOLS (WHITE)</li> <li>㉔ POLYUREA PAVEMENT MARKING TYPE 1, LINE 8" (WHITE 3' DASH, 9' SKIP)</li> <li>㉕ POLYUREA PAVEMENT MARKING TYPE 1, LINE 4" (WHITE 2' DASH, 6' SKIP)</li> </ul> |
|---|--|---|

**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. SEE ROADWAY PLANS FOR LIMITS OF RESURFACING.

FILE NAME =	DESIGNED - CAG	REVISED -
...\\p1n.abc.c3.290.svntkg.14.dgn	DRAWN - DMS	REVISED -
USER NAME = jmojewski	CHECKED - CAR	REVISED -
PLOT DATE = 1/25/2018	DATE - 1/25/10	REVISED -

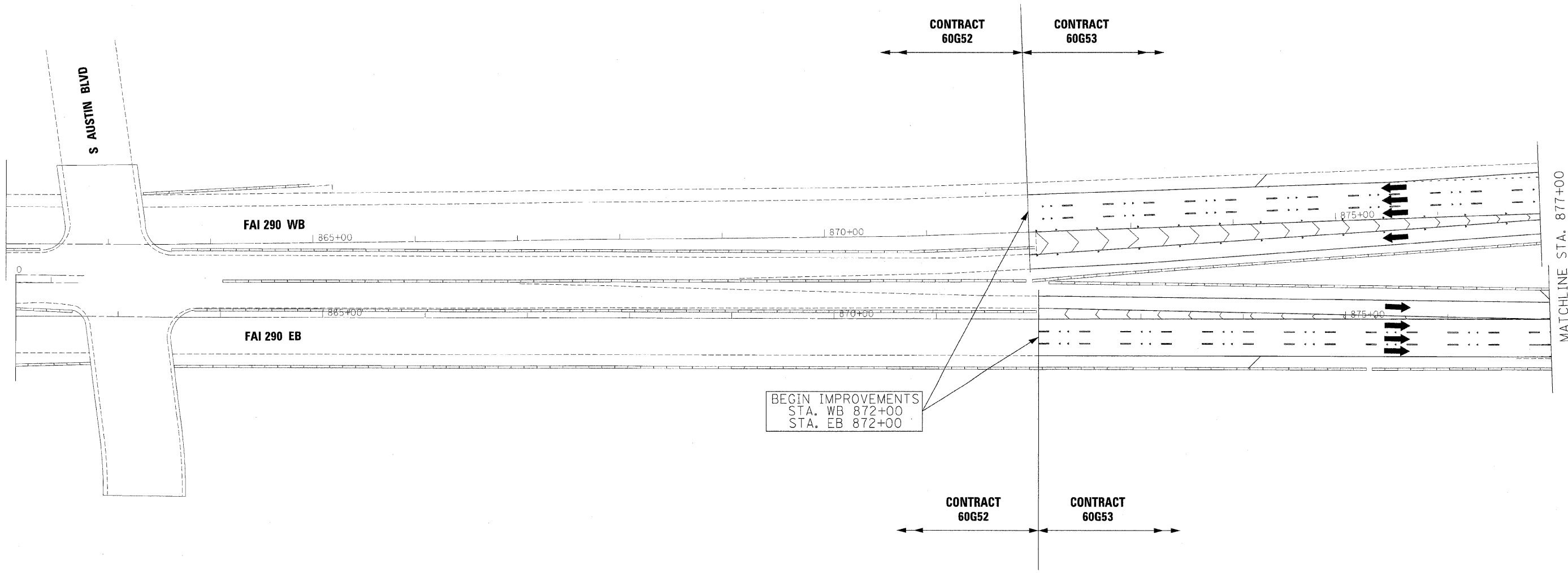
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLANS  
STA 1057+00 TO POE**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	110
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60G53	



FILE NAME =	DESIGNED - CAC	REVISED -
...p\p\In-ABC-68J22-290-pvmtmk-g.01.dgn	DRAWN - DMS	REVISED -
USER NAME = jma_ewski	CHECKED - CAR	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

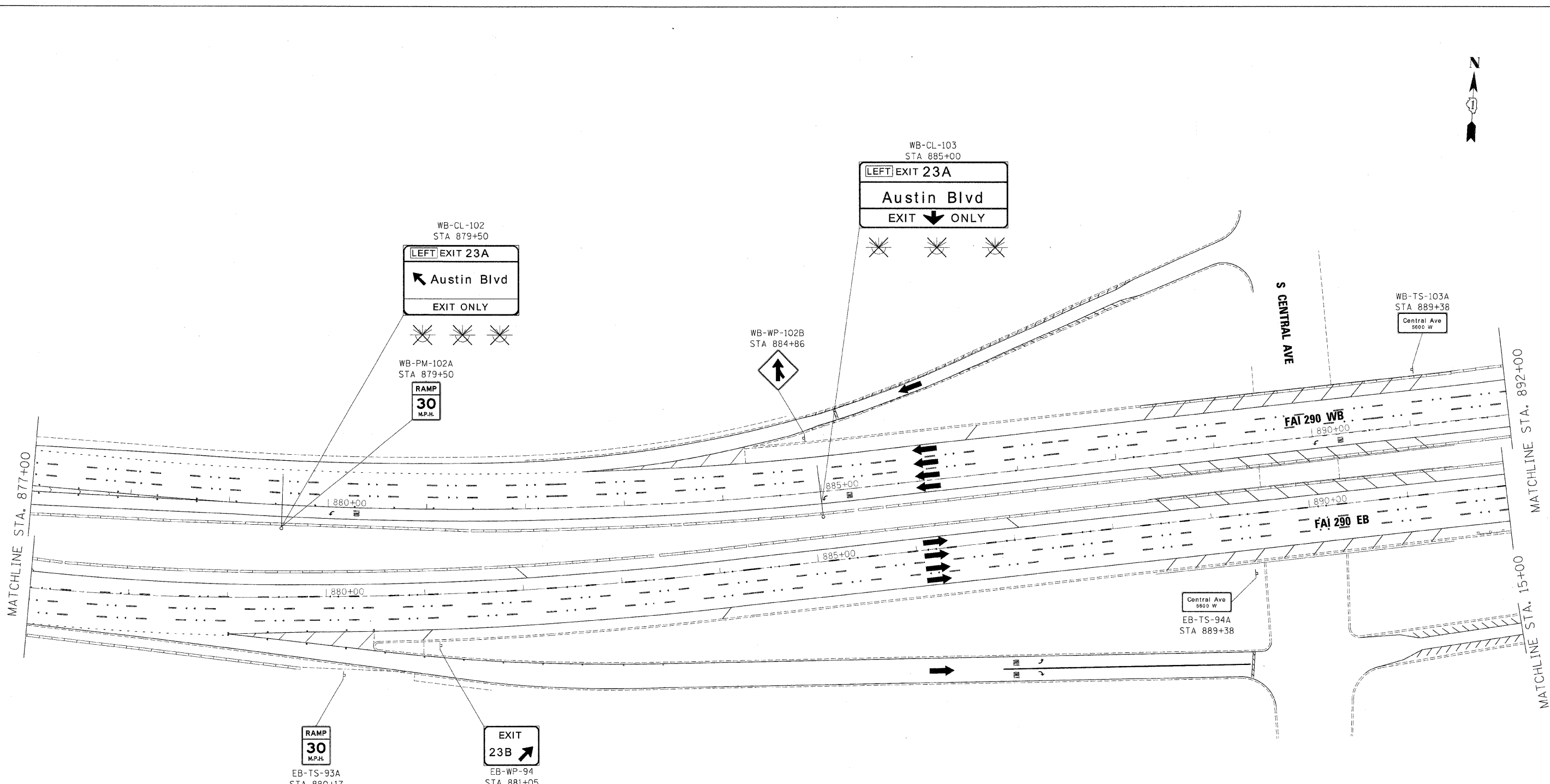
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
POB TO STA 877+00**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 313)RS-7	COOK	216	111
CONTRACT NO. 60G53				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**EXAMPLE**  
EB-IR-03

DIRECTION OF TRAFFIC	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 -
...\\p1n-abc-60J22_290.pvtnkkg-82.dgn	DRAWN - TMB	REVISED -
USER NAME = jmojewski	CHECKED - JMM	REVISED -
PLOT DATE = 1/25/2010	DATE = 1/25/10	REVISED -

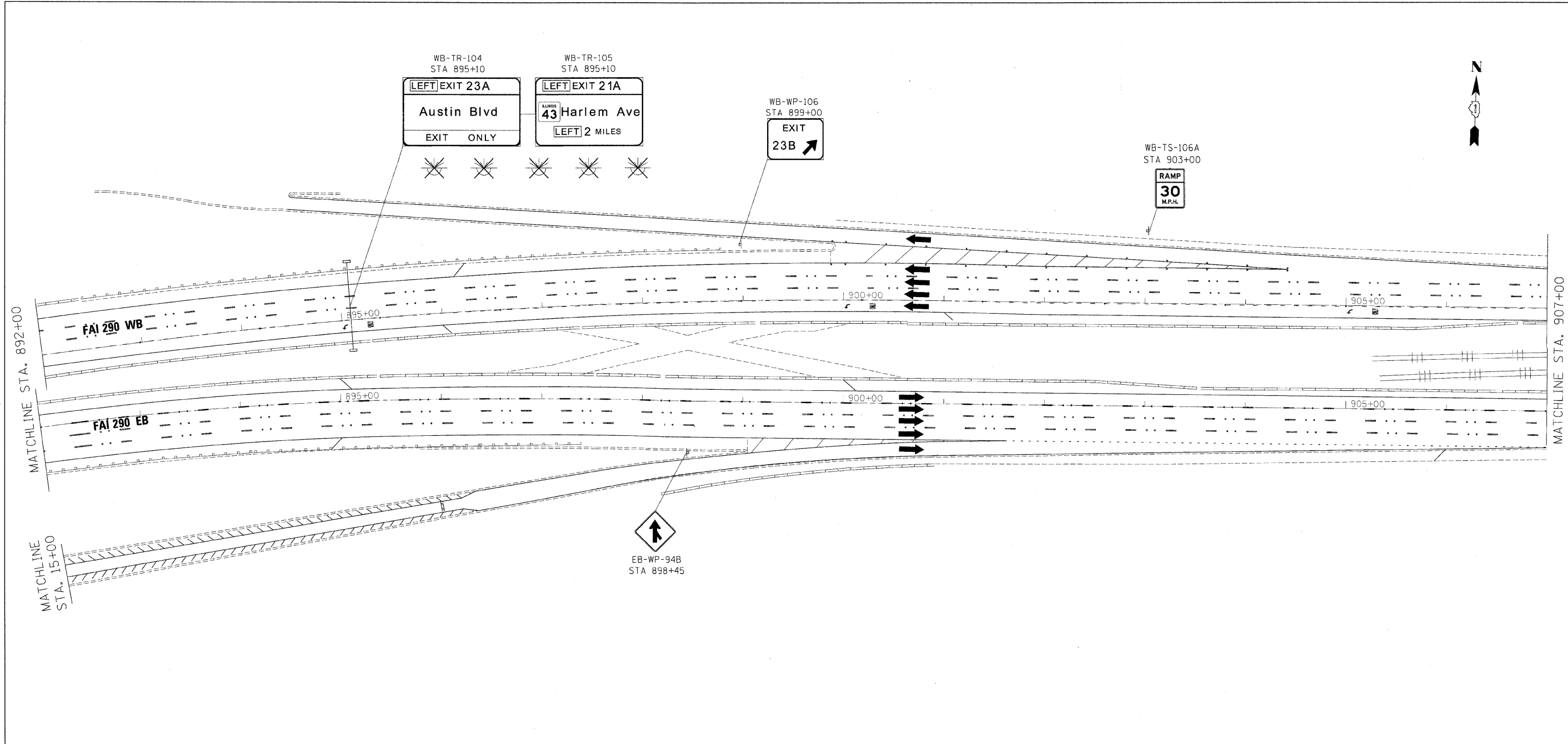
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
STA 877+00 TO STA 892+00**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)PS-7	COOK	216	112
CONTRACT NO. 60653				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**GUIDE SIGN SEQUENCE  
NUMBERING CODE**

**EXAMPLE**  
EB-IR-03

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)

SIGN PANEL NUMBER

MOUNTING TYPE

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

REMOVE AND REPLACE SIGN PANEL

EXISTING LUMINAIRE TO BE REMOVED

FILE NAME =	DESIGNED - AJP	REVISED -
...p\p\p\ABC_68J22_290_p\m\m\kg_83.dgn	DRAWN - TMB	REVISED -
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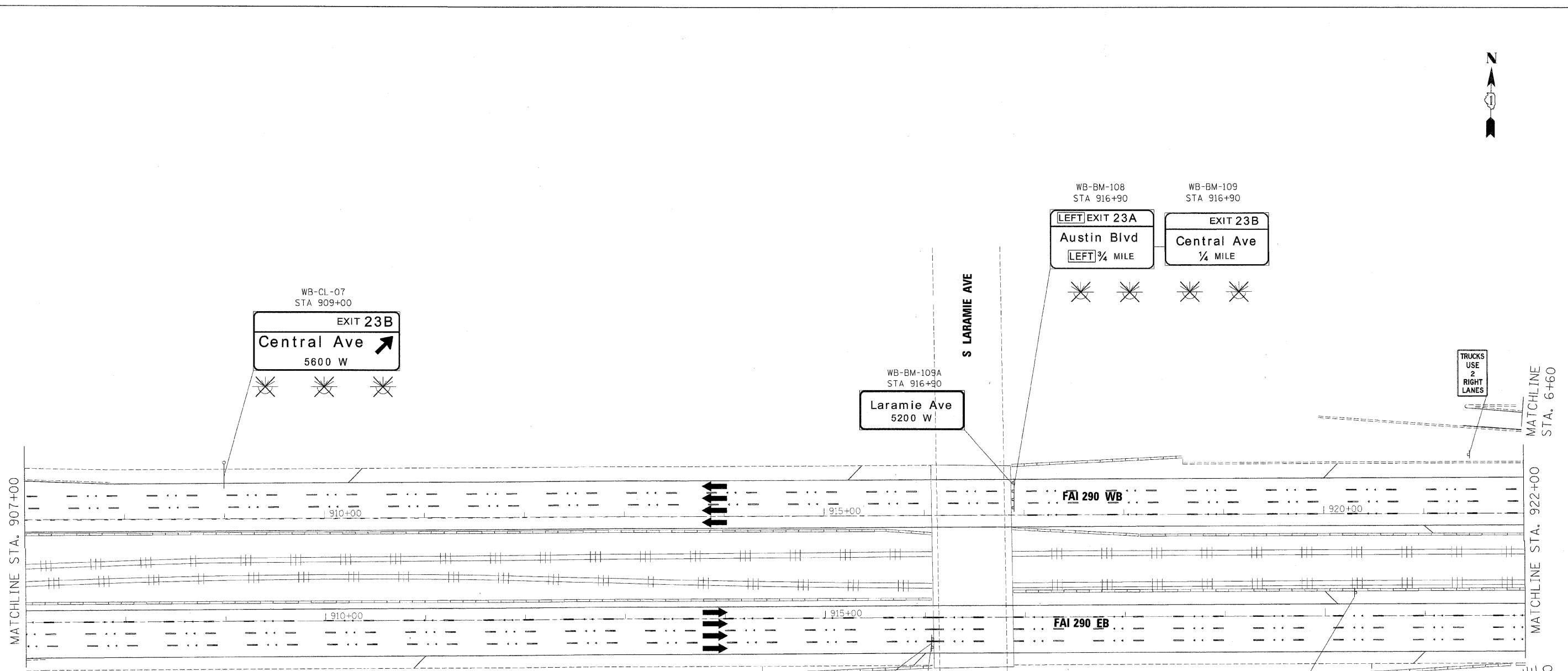
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
STA 892+00 TO STA 907+00**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	113
CONTRACT NO. 60G53				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



EB-PM-94C1  
STA 908+96  
EB-PM-94C2  
STA 908+96

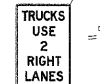


EB-PM-94D  
STA 913+47

Laramie Ave  
5200 W

EB-BM-95A  
STA 916+10  
EB-BM-95  
STA 916+10

EXIT 24 B  
ILLINOIS 50 Cicero Ave  
1/4 MILE



EB-TS-95B  
STA 920+30

**GUIDE SIGN SEQUENCE  
NUMBERING CODE**

- EXAMPLE**  
EB-TR-03
- 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

FILE NAME =	DESIGNED - AJP	REVISED -
...xp\pin_abc_68j22_298_pvmtmkg_04.dgn	DRAWN - TMB	REVISED -
USER NAME = jnojewski	CHECKED - JMM	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

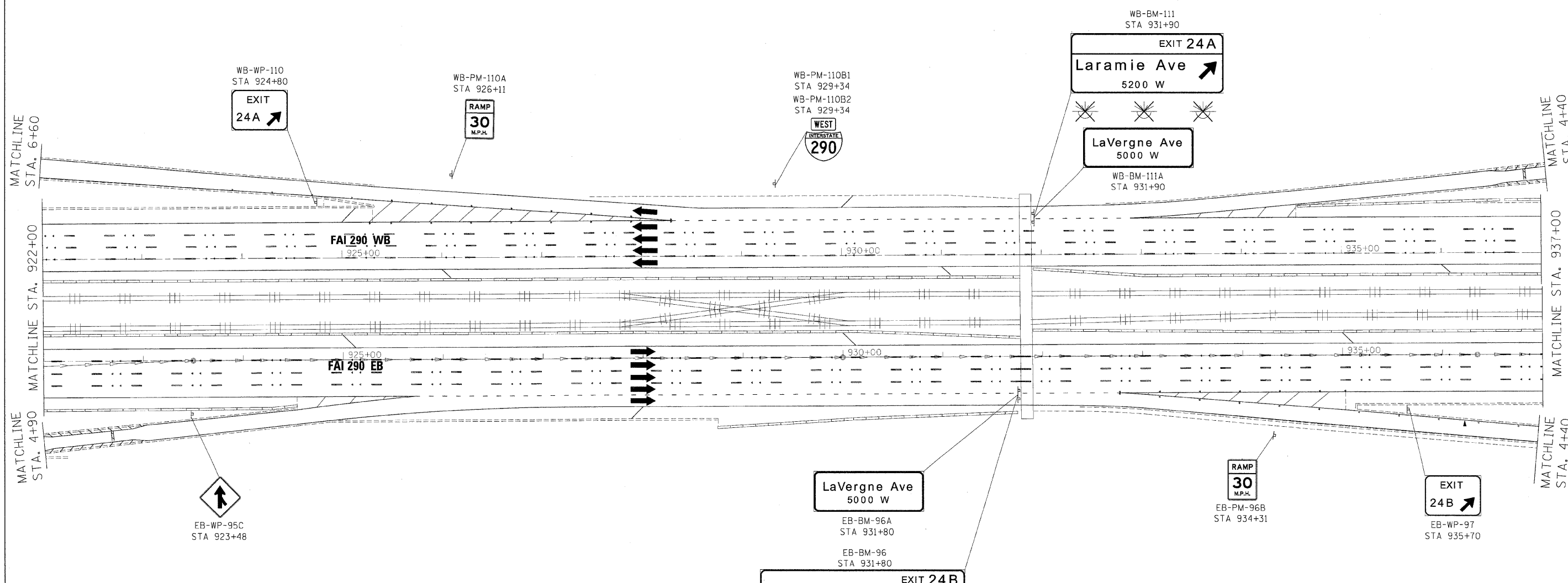
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
STA 907+00 TO STA 922+00**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 313)RS-7	COOK	216	114
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60G53	



**GUIDE SIGN SEQUENCE  
NUMBERING CODE**

**EXAMPLE**  
EB-TR-03

DIRECTION OF TRAFFIC	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)	
	MOUNTING TYPE
	TR - TRUSS
	CL - CANTILEVER
	BM - BRIDGE MOUNTED
	WP - WOOD POST
	BS - BREAKAWAY STEEL
	LP - LIGHT POLE
	GM - GROUND MOUNTED

  REMOVE AND REPLACE SIGN PANEL  
✕ EXISTING LUMINAIRE TO BE REMOVED

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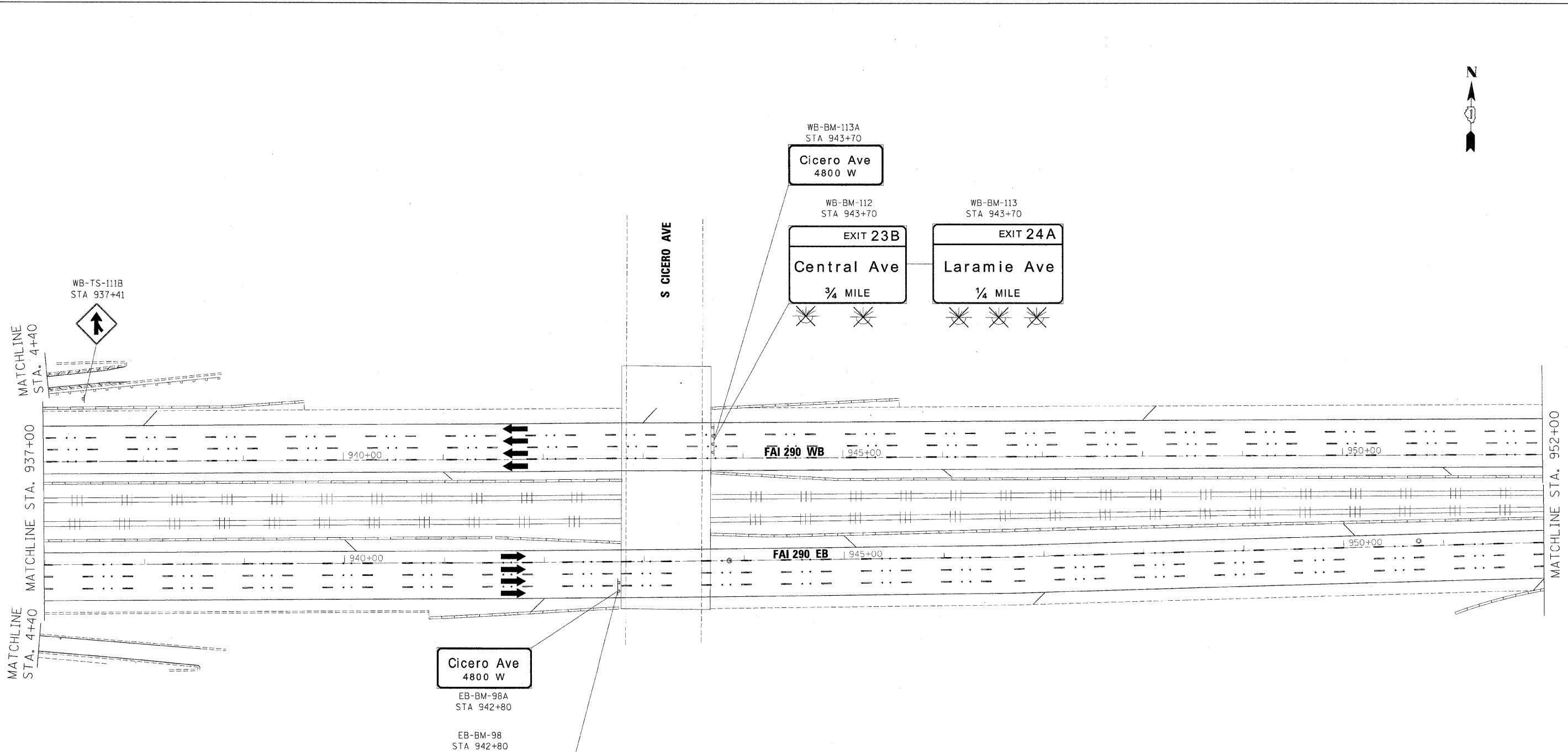
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
STA 922+00 TO STA 937+00**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	115
CONTRACT NO. 60G53				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



**GUIDE SIGN SEQUENCE NUMBERING CODE**

**EXAMPLE**

EB-TR-03

DIRECTION OF TRAFFIC	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)	
	MOUNTING TYPE
	TR - TRUSS
	CL - CANTILEVER
	BM - BRIDGE MOUNTED
	WP - WOOD POST
	BS - BREAKAWAY STEEL
	LP - LIGHT POLE
	GM - GROUND MOUNTED

  REMOVE AND REPLACE SIGN PANEL  
✕ EXISTING LUMINAIRE TO BE REMOVED

FILE NAME =	DESIGNED - AJP	REVISED -
...\\p1\abc_68J22_290_pventakg_06.dgn	DRAWN - TMB	REVISED -
USER NAME = jmojmask:	CHECKED - JMM	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

**benesch**

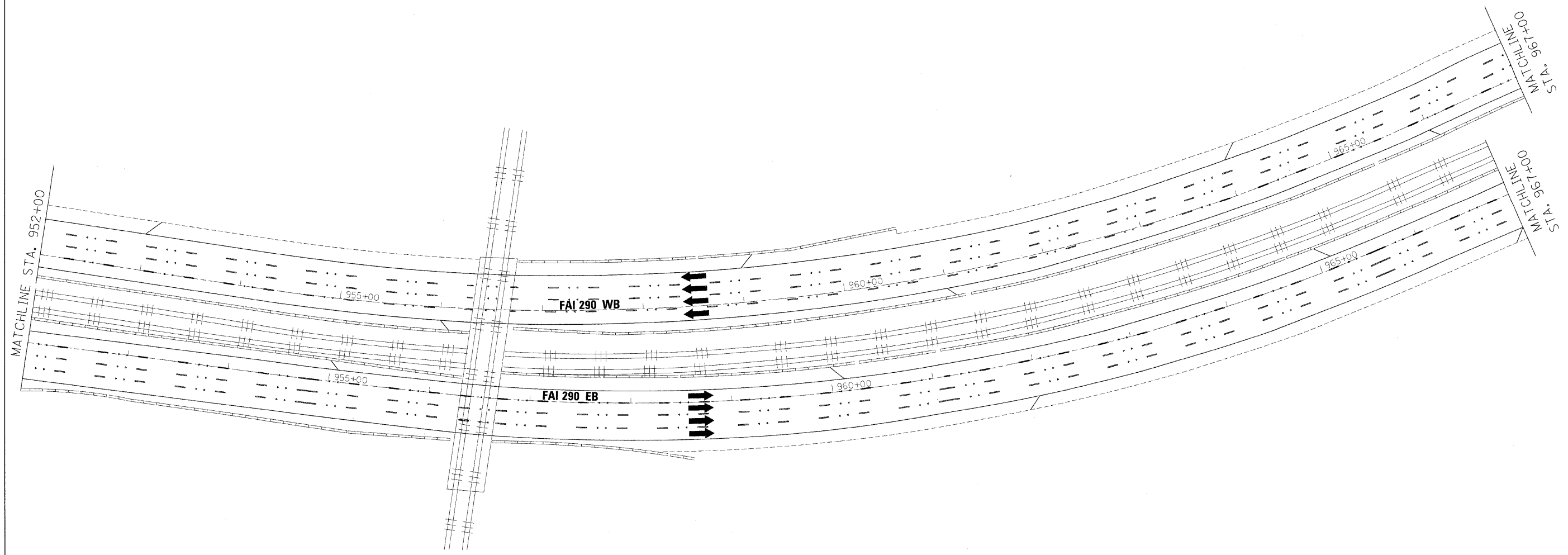
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
STA 937+00 TO STA 952+00**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	12727, ETC., 3131RS-7	COOK	216	116
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60G53	





**GUIDE SIGN SEQUENCE  
NUMBERING CODE**

**EXAMPLE**

DIRECTION OF TRAFFIC: EB-TR-03

SIGN PANEL NUMBER: EB-TR-03

MOUNTING TYPE: TR

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

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 -

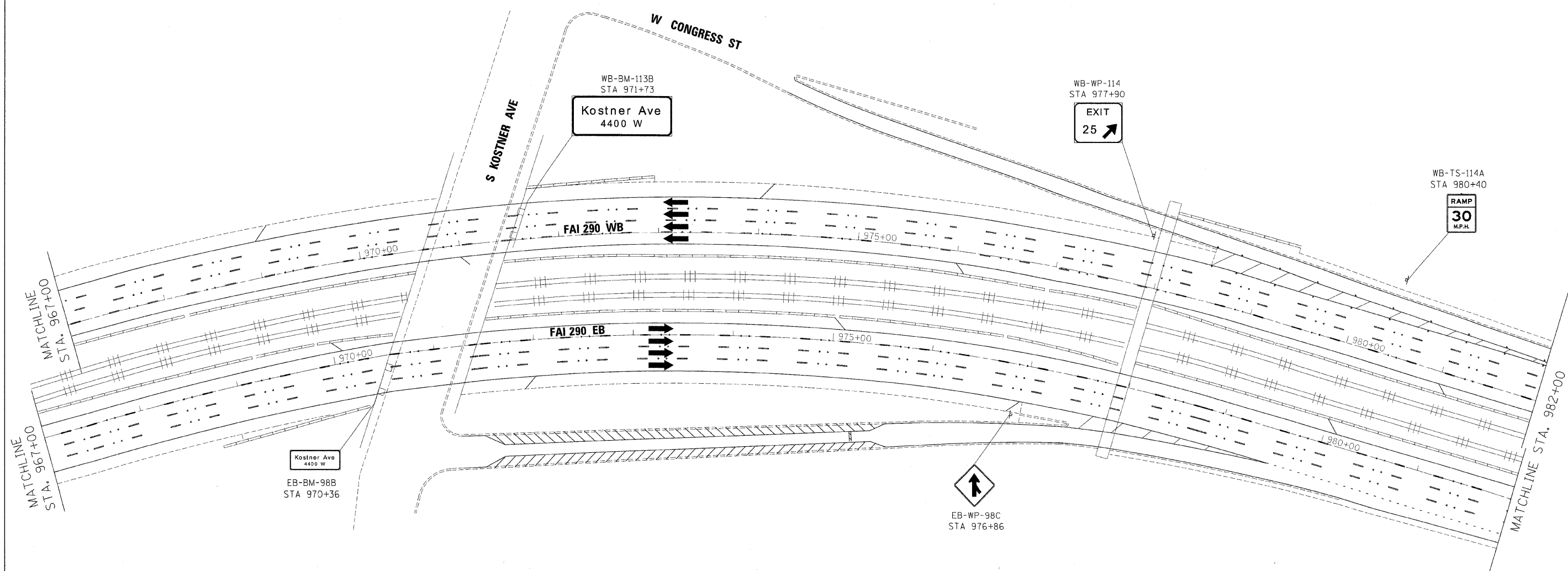
benesch

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN  
STA 952+00 TO STA 967+00

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 313)RS-7	COOK	216	117
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60G53	



**GUIDE SIGN SEQUENCE  
NUMBERING CODE**

**EXAMPLE**  
EB-TR-03

DIRECTION OF TRAFFIC	EB - EASTBOUND FAI 290	SIGN PANEL NUMBER	TR - TRUSS
NB - NORTHBOUND FAI 355			CL - CANTILEVER
SB - SOUTHBOUND FAI 355			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 -
...xp\p\in_abc_62\22_248_p\m\mkkg_08.dgn	DRAWN - TMB	REVISED -
USER NAME = jmojewski	CHECKED - JMM	REVISED -
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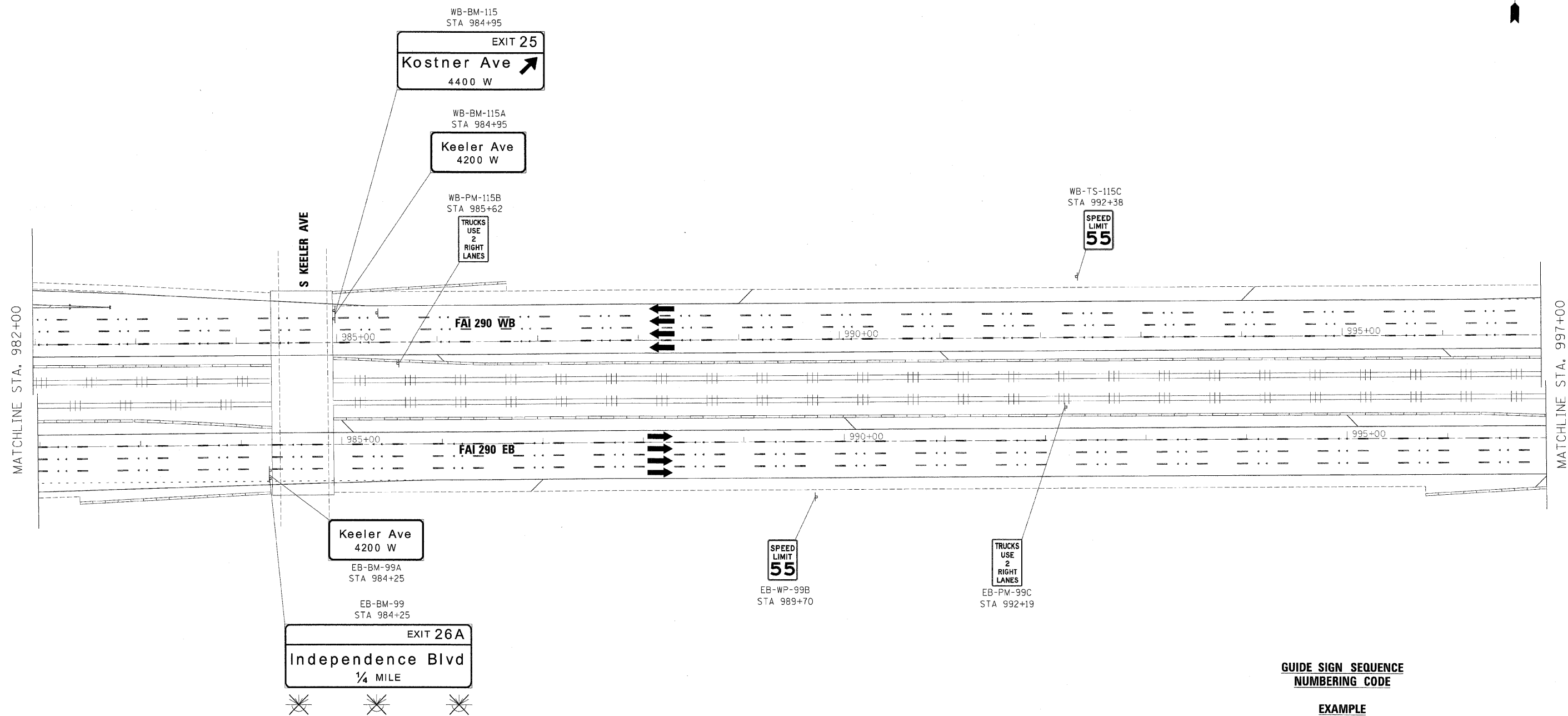
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
STA 967+00 TO STA 982+00**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	118
CONTRACT NO. 60G53				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**GUIDE SIGN SEQUENCE  
NUMBERING CODE**

- EXAMPLE**  
EB-IR-03
- 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)
- SIGN PANEL NUMBER
- MOUNTING TYPE
- TR - TRUSS
  - CL - CANTILEVER
  - BM - BRIDGE MOUNTED
  - WP - WOOD POST
  - BS - BREAKAWAY STEEL
  - LP - LIGHT POLE
  - GM - GROUND MOUNTED
- REMOVE AND REPLACE SIGN PANEL
- EXISTING LUMINAIRE TO BE REMOVED

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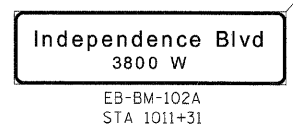
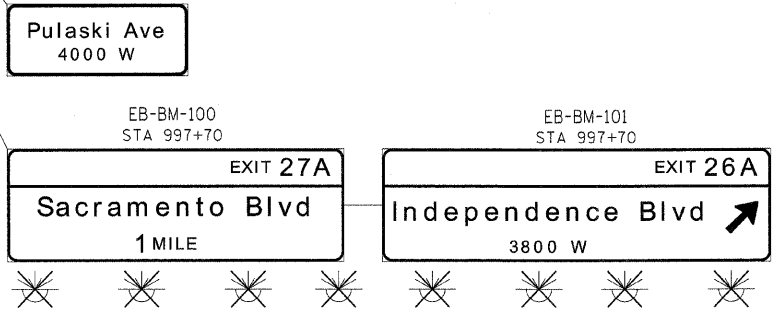
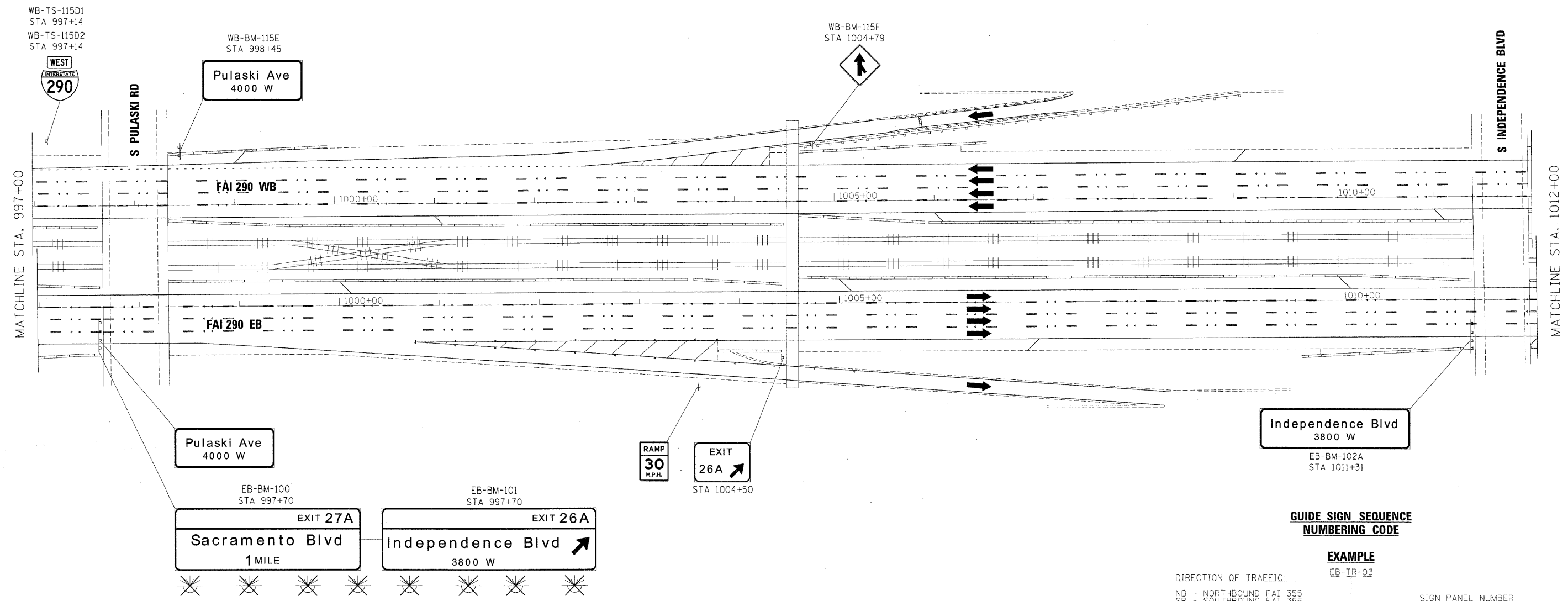
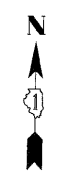
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
STA 982+00 TO STA 997+00**

SCALE: 1"=50' SHEET NO. 9 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	119
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60G53	



**GUIDE SIGN SEQUENCE NUMBERING CODE**

- EXAMPLE**  
EB-IR-03
- 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)
  - SIGN PANEL NUMBER
  - MOUNTING TYPE
  - TR - TRUSS
  - CL - CANTILEVER
  - BM - BRIDGE MOUNTED
  - WP - WOOD POST
  - BS - BREAKAWAY STEEL
  - LP - LIGHT POLE
  - GM - GROUND MOUNTED
  - REMOVE AND REPLACE SIGN PANEL
  - EXISTING LUMINAIRE TO BE REMOVED

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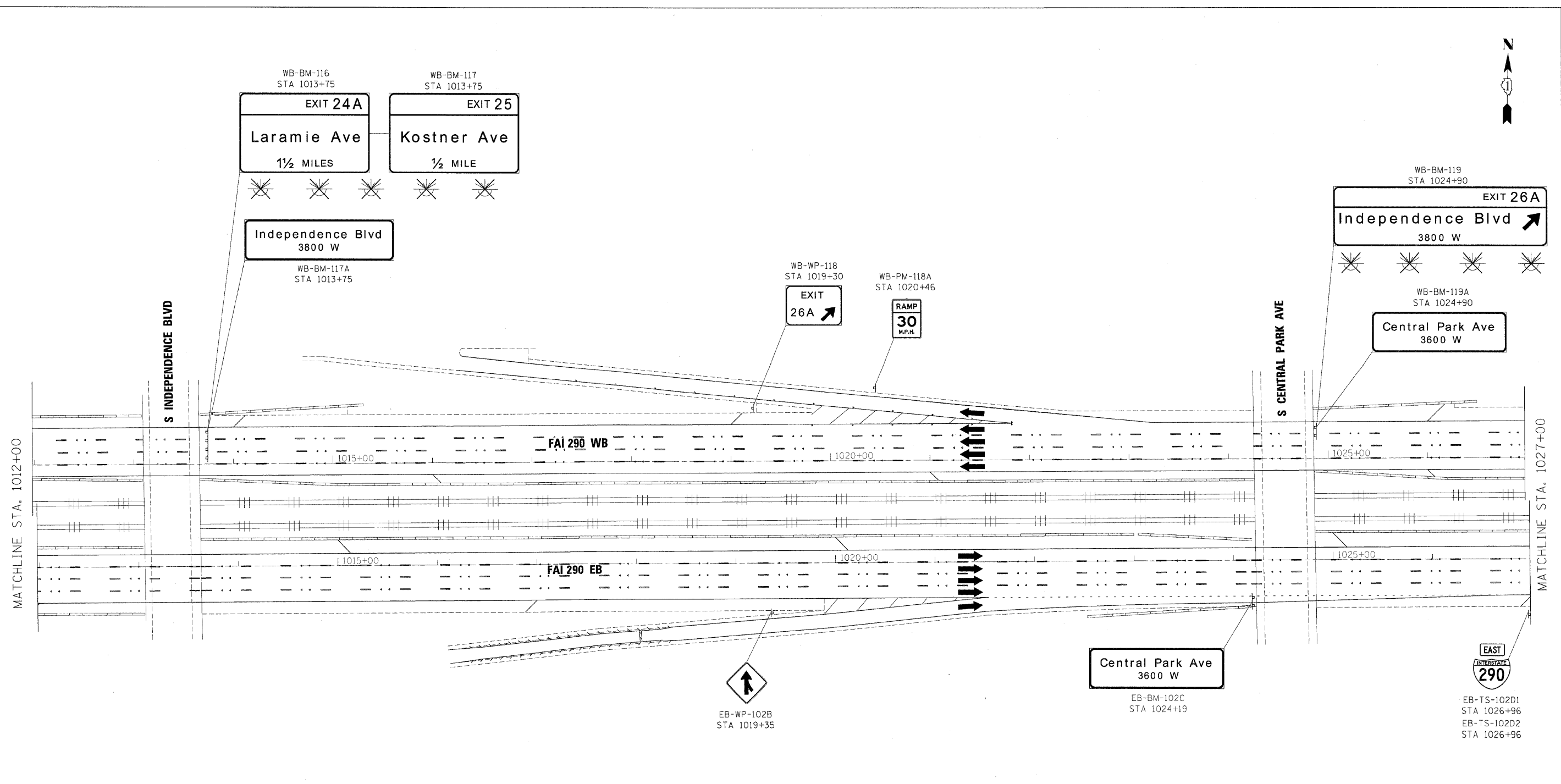
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
STA 997+00 TO STA 1012+00**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	120
CONTRACT NO. 60G53			FED. ROAD DIST. NO. [IL INOIS] FED. AID PROJECT	



**GUIDE SIGN SEQUENCE  
NUMBERING CODE**

**EXAMPLE**

DIRECTION OF TRAFFIC		EB-TR-03	SIGN PANEL NUMBER
NB - NORTHBOUND FAI 355	TR - TRUSS		
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 -
...\\p1n.fbc.68J22.298_pvmtrkg.11.dgn	DRAWN - TMB	REVISED -
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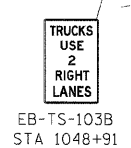
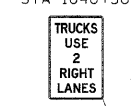
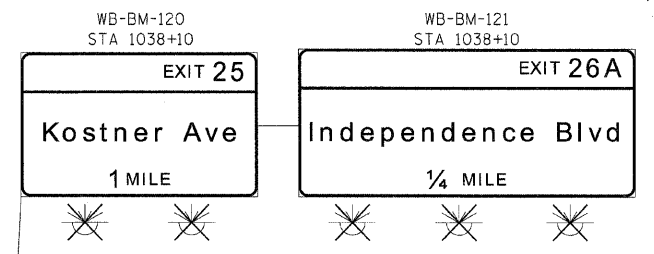
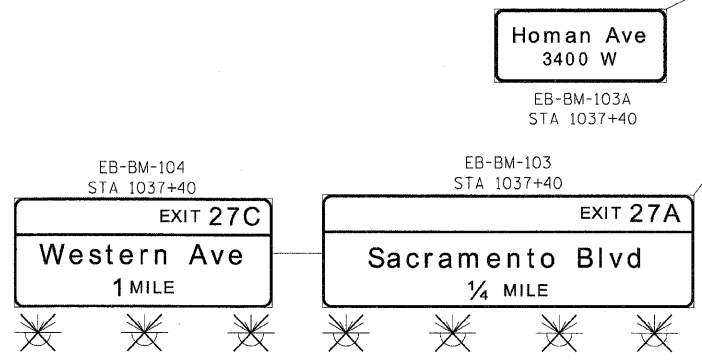
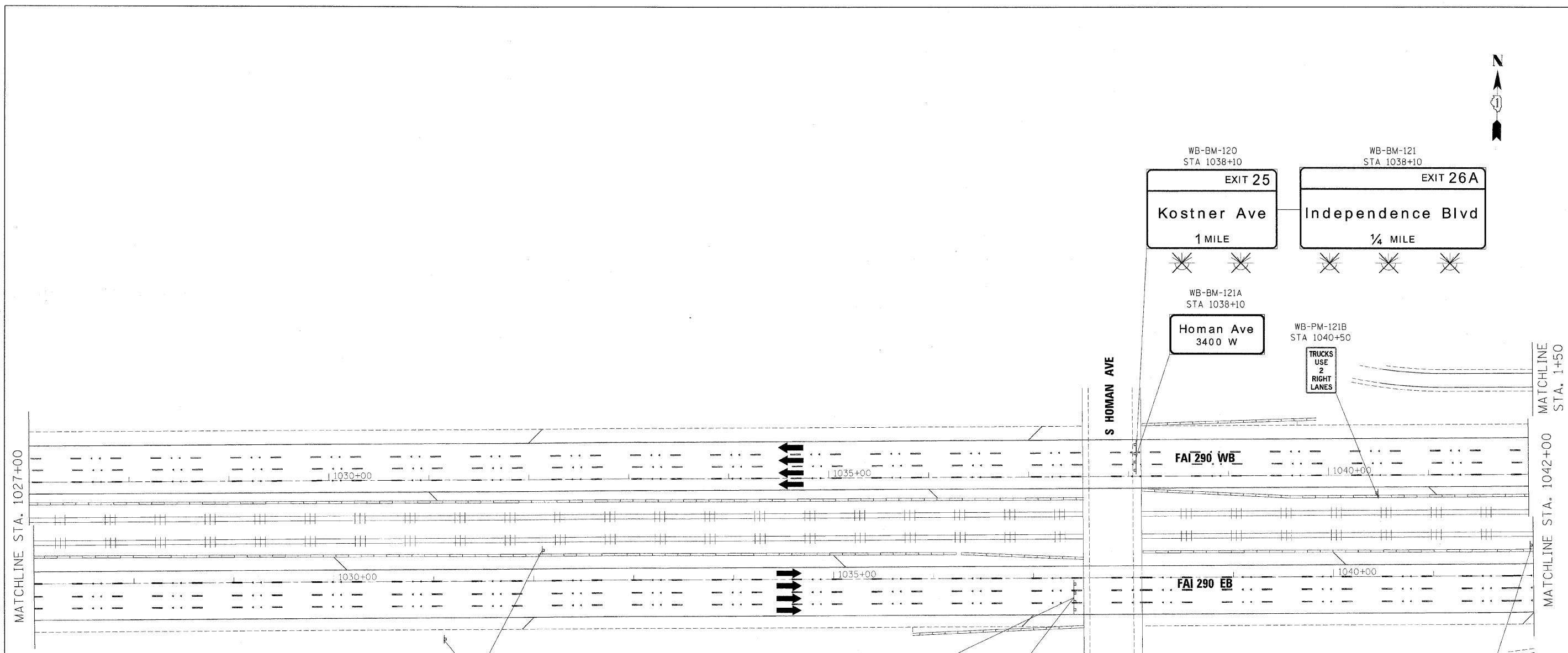
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
STA 1012+00 TO STA 1027+00**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	121
CONTRACT NO. 60C53				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



**GUIDE SIGN SEQUENCE NUMBERING CODE**

**EXAMPLE**

EB-TR-03

DIRECTION OF TRAFFIC	SIGN PANEL NUMBER	MOUNTING TYPE
NB - NORTHBOUND FAI 355		TR - TRUSS
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 -
...\\p\p\in\ABC_68J22_29E.pym\mkg_12.dgn	DRAWN - TMB	REVISED -
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PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

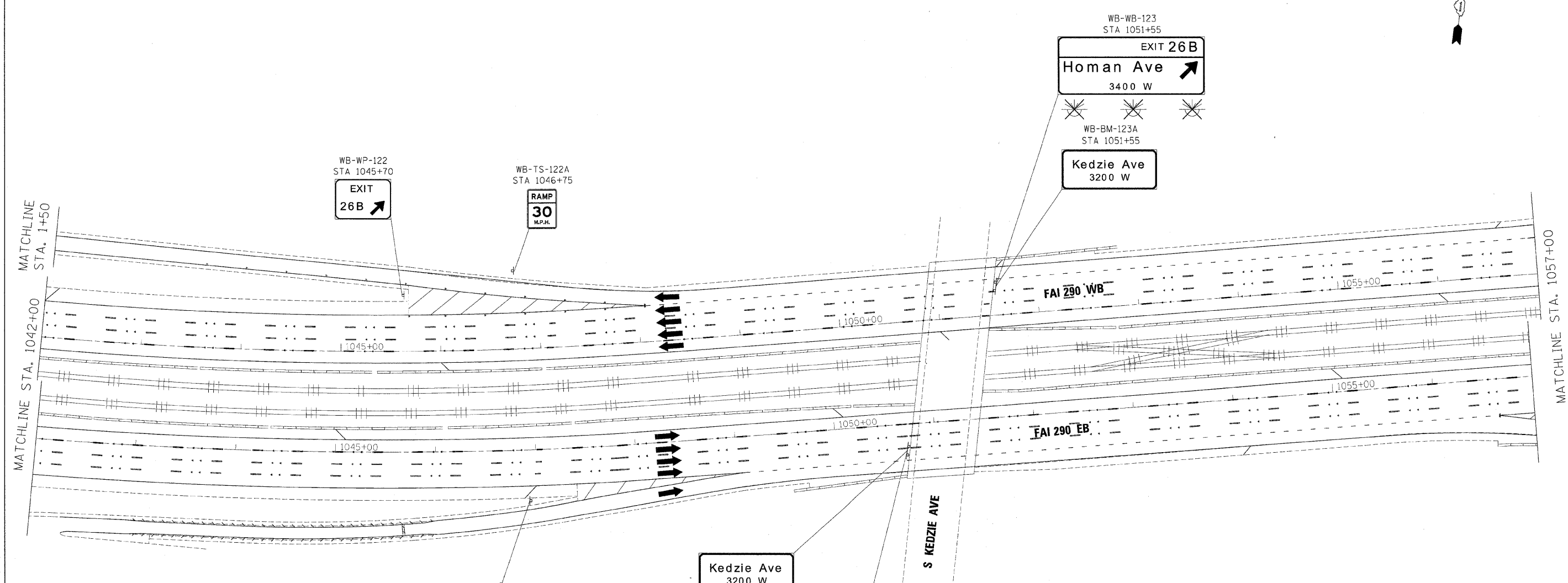
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
STA 1027+00 TO STA 1042+00**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	122
CONTRACT NO. 60C53				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



**GUIDE SIGN SEQUENCE  
NUMBERING CODE**

**EXAMPLE**  
EB-TR-03

DIRECTION OF TRAFFIC	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 -
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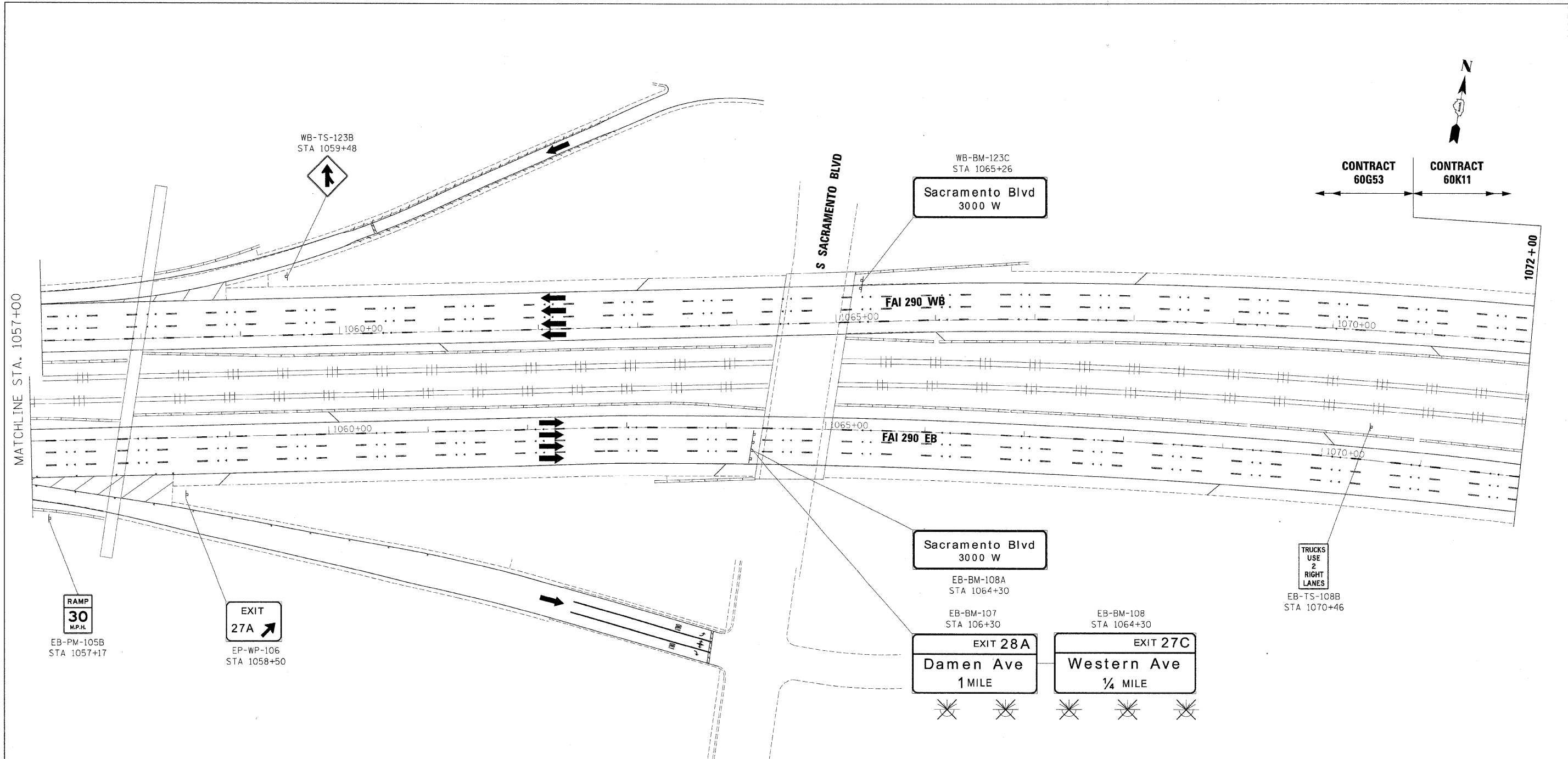
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
STA 1042+00 TO STA 1057+00**

SCALE: 1/4"=50' SHEET NO. 13 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	123
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 60G53		



**GUIDE SIGN SEQUENCE  
NUMBERING CODE**

- EXAMPLE**  
EB-TR-03
- 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)
  - SIGN PANEL NUMBER
  - MOUNTING TYPE
    - TR - TRUSS
    - CL - CANTILEVER
    - BM - BRIDGE MOUNTED
    - WP - WOOD POST
    - BS - BREAKAWAY STEEL
    - LP - LIGHT POLE
    - GM - GROUND MOUNTED
- REMOVE AND REPLACE SIGN PANEL  
  EXISTING LUMINAIRE TO BE REMOVED

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 PLAN  
STA 1057+00 TO POE**

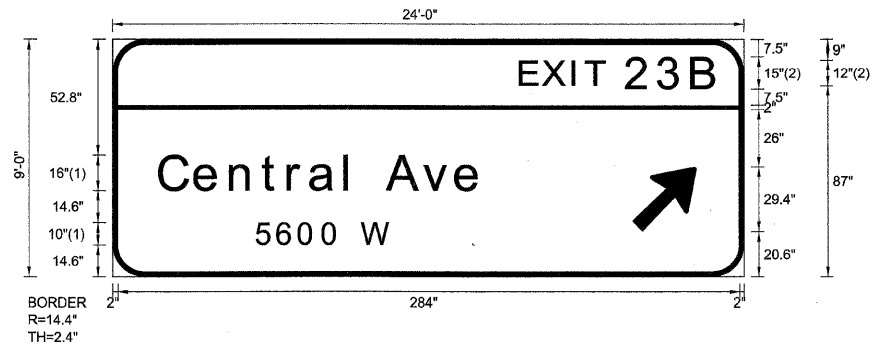
SCALE: 1"=50' SHEET NO. 14 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	124
CONTRACT NO. 60G53				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



SIGN DETAIL  
1:75

EB-CL-93  
STA. 876+50



SIGN NUMBER	name
WIDTH x HGHT.	24'-0" x 9'-0"
BORDER WIDTH	2.4"
CORNER RADIUS	14.4"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
ARMED	45	237	20.6	24	37.8

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

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

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

LETTER POSITIONS (X)																LENGTH	SERIESSIZE	
E	X	I	T	2	3	B											90	ClearviewHwy-5-W 12,15
186.4	196.7	210.3	216.3	234.9	249.2	265											147.1	ClearviewHwy-5-W-R 1613
C	e	n	t	r	a	l			A	v	e						61.1	ClearviewHwy-5-W-R 10
21.6	37.8	54	68.6	80.4	90.4	106.4	111.4	125.6	142.2	156.9								
5	6	0	0			W												
65.9	75.3	85.1	96	104.2	113.7													

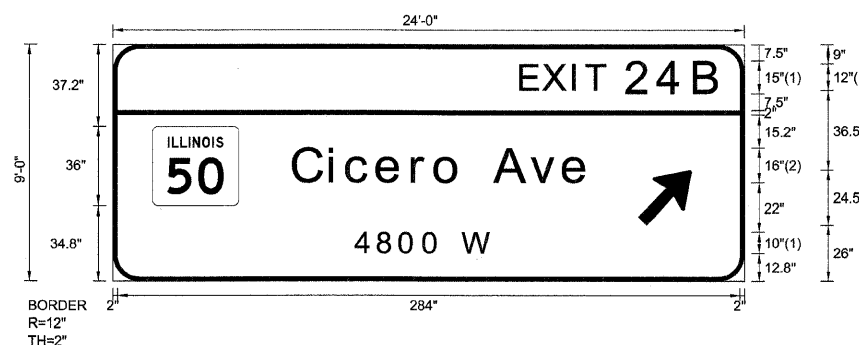


SIGN DETAIL  
1:75

EB-BM-96  
STA. 931+80

SIGN NUMBER	name
WIDTH x HGHT.	24'-0" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1-1100A-2-22-10D	0	18	34.8	39.3	36
ARMED	45	239.5	26	20	31.5



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

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

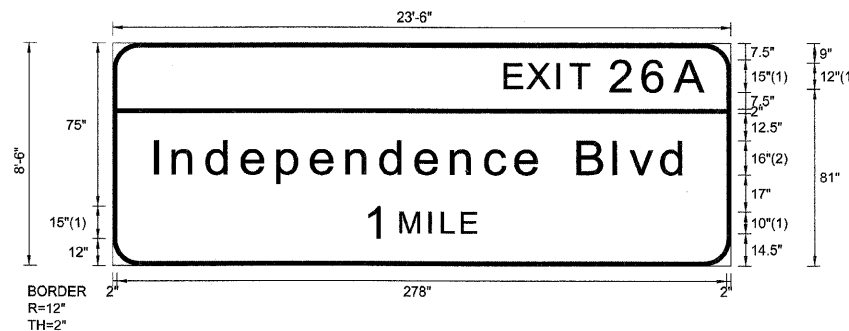
Letter locations are paneledge to lower left corner

LETTER POSITIONS (X)													LENGTH	SERIESSIZE
E	X	I	T	2	4	B								ClearviewHwy-5-W
186.4	196.7	210.3	216.2	234.9	249.4	266.1							91	12,15
C	i	c	e	r	o	A	v	e						ClearviewHwy-5-W-R
82.6	99.1	106.9	120.8	137	147.3	159.6	174.5	191	205.8				134.9	1613
4	8	0	0		W									ClearviewHwy-5-W-R
110.8	121	131	141.9	150	159.5								61.9	10

**SIGN DETAIL**

1:75

EB-BM-98  
STA. 942+80



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

SIGN NUMBER	name
WIDTH x HGHT.	23'-6" x 8'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: WhiteWhite

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

																												LENGTH	SERIESSIZE	
E	X	I	T	2	6	A																							92	ClearviewHwy-5-W 12,15
179.4	189.7	203.3	209.3	227.9	243	257.4																							243	ClearviewHwy-5-W-R 1613
I	n	d	e	p	e	n	d	e	n	c	e		B	I	v	d													50.2	ClearviewHwy-5-W 15,10
19.5	27.9	43.4	59.4	75.6	91	107.2	122.8	138.8	155	170.5	184.4	196.1	212.7	229.3	236.2	250.9														
1	M	I	L	E																										
115.9	131.7	144.8	150.7	159.8																										

FILE NAME =	DESIGNED - SEW	REVISED -
*FILEL*	DRAWN - SEW	REVISED -
USER NAME = *USER*	CHECKED - SEW	REVISED -
PLOT DATE = *DATE*	DATE - 1/25/10	REVISED -



**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING DETAILS**

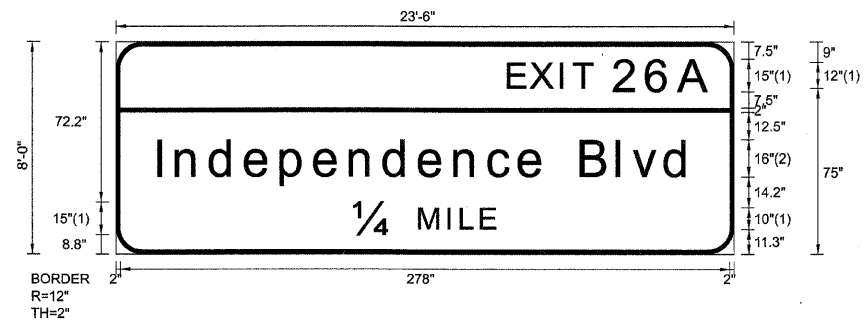
SCALE: N.T.S. SHEET NO. 4 OF 34 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	128
FED. ROAD DIST. NO. ILLINOIS/FED. AID PROJECT			CONTRACT NO. 60G53	

SIGN DETAIL

1:75

EB-BM-99  
STA. 984+25



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

SIGN NUMBER	name
WIDTH x HGHT.	23'-6" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: WhiteWhite

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

LETTER POSITIONS (X)																								LENGTH	SERIESSIZE			
E	X	I	T	2	6	A																					ClearviewHwy-5-W	
179.4	189.7	203.3	209.3	227.9	243	257.4																					92	12,15
I	n	d	e	p	e	n	d	e	n	c	e		B	I	v	d											ClearviewHwy-5-W-R	
19.5	27.9	43.4	59.4	75.6	91	107.2	122.8	138.8	155	170.5	184.4	196.1	212.7	229.3	236.2	250.9											243	1613
1/4	M	I	L	E																							ClearviewHwy-5-W	
108.8	138.8	151.9	157.8	166.9																							64.5	15,10

FILE NAME =	DESIGNED - SEW	REVISED -
#FILE#	DRAWN - SEW	REVISED -
USER NAME = #USER#	CHECKED - SEW	REVISED -
PLOT DATE = #DATE#	DATE - 1/25/10	REVISED -



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS

SCALE: N.T.S. SHEET NO. 5 OF 34 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	129
CONTRACT NO. 60653			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

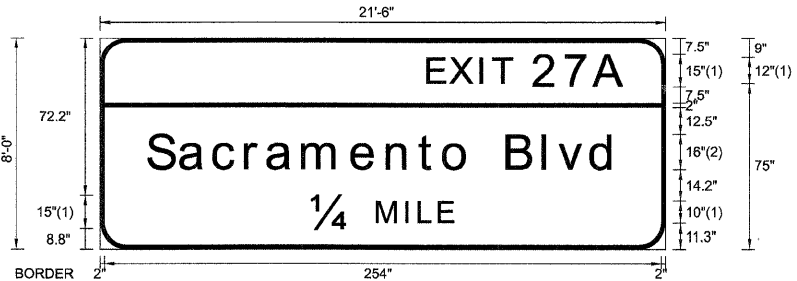




SIGN DETAIL

1:75

EB-BM-104  
STA. 1037+40



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

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

SIGN NUMBER	name
WIDTH x HGHT.	21'-6" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																						LENGTH	SERIESSIZE	
E	X	I	T	2	7	A																90.1	12,15	
149.9	160.2	173.9	179.8	198.4	212.6	226																		
S	a	c	r	a	m	e	n	t	o	B	l	v	d											
22.1	36.9	52.2	66.7	76.7	92.7	115.2	131.4	146	157.2	169.5	186.1	202.6	209.6	224.3										
1/4	M	I	L	E																				
96.8	126.8	139.9	145.9	154.9																				

FILE NAME =	DESIGNED - SEW	REVISED -
\$FILEL\$	DRAWN - SEW	REVISED -
USER NAME = \$USER\$	CHECKED - SEW	REVISED -
PLOT DATE = \$DATE\$	DATE - 1/25/10	REVISED -



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS

SCALE: N.T.S. SHEET NO. 8 OF 34 SHEETS STA. TO STA.

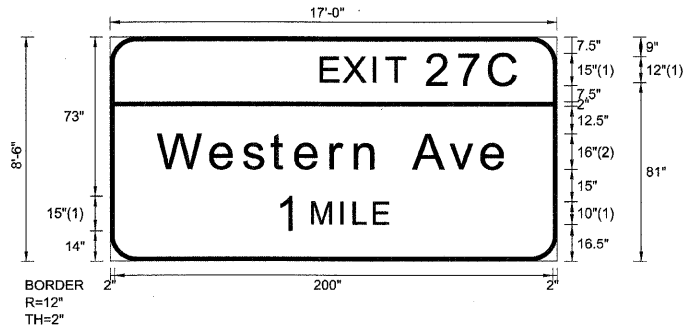
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	132
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				CONTRACT NO. 60G53



**SIGN DETAIL**  
1:75

EB-BM-103  
STA. 1037+40

SIGN NUMBER	name
WIDTH x HGHT.	17'-0" x 8'-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

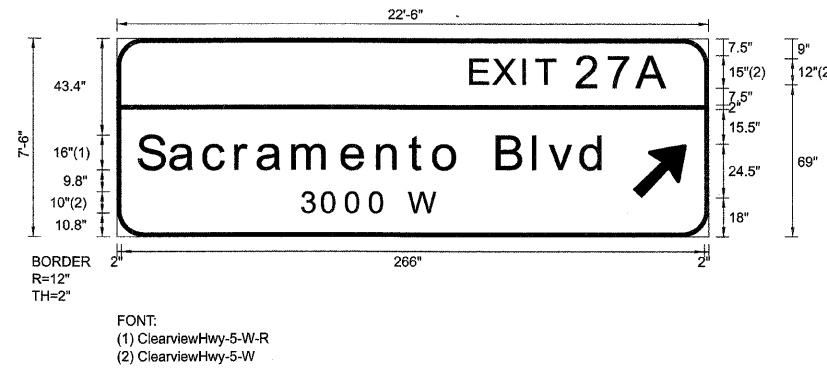
SYMBOL	ROT	X	Y	WID	HT

**LETTER POSITIONS (X)**

																LENGTH	SERIESSIZE
E	X	I	T	2	7	C											ClearviewHwy-5-W
96.7	107	120.7	126.6	145.2	159.4	173.8											89.3 12,15
W	e	s	t	e	r	n	A	v	e								ClearviewHwy-5-W-R
22.2	46.4	61.1	73.9	85.1	101.3	112.3	123.3	138.8	155.4	170.1							159.6 1613
1	M	I	L	E													ClearviewHwy-5-W
76.9	92.6	105.8	111.7	120.7													50.2 15,10

SIGN DETAIL  
1:75

EB-BM-105  
STA. 1050+70



SIGN NUMBER	name
WIDTH x HIGHT.	22'-6" x 7'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
ARMED	45	235.5	18	20	31.5

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

Letter locations are panel edge to lower left corner

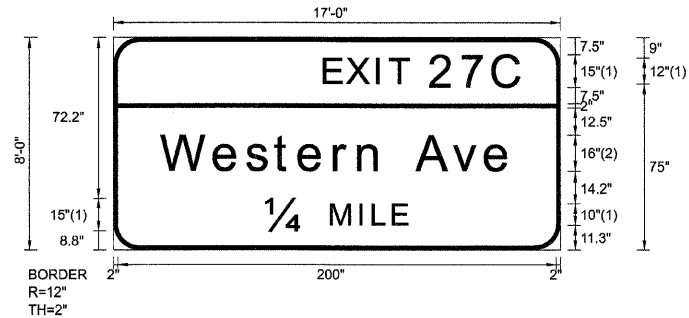
LETTER POSITIONS (X)

																LENGTH	SERIESSIZE
E	X	I	T	2	7	A											ClearviewHwy-5-W
161.9	172.2	185.9	191.8	210.4	224.6	238											90.1 12,15
S	a	c	r	a	m	e	n	t	o	B	l	v	d				ClearviewHwy-5-W-R
10	24.7	40.1	54.5	64.6	80.5	103.1	119.3	133.8	145	157.3	173.9	190.5	197.5	212.2			213.8 16/13
3	0	0	0	W													ClearviewHwy-5-W-R
84.3	93.9	104.8	115.7	123.8	133.4												62.3 10

SIGN DETAIL

1:75

EB-BM-108  
STA. 1064+30



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

SIGN NUMBER	name
WIDTH x HGHT.	17'-0" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

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

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

												LENGTH	SERIESSIZE
E	X	I	T	2	7	C							ClearviewHwy-5-W
96.7	107	120.7	126.6	145.2	159.4	173.8						89.3	12,15
W	e	s	t	e	r	n	A	v	e				ClearviewHwy-5-W-R
22.2	46.4	61.1	73.9	85.1	101.3	112.3	123.3	138.8	155.4	170.1		159.6	1613
14	M	I	L	E									ClearviewHwy-5-W
69.8	99.8	112.9	118.8	127.9								64.5	15,10

FILE NAME =	DESIGNED - SEW	REVISED -
*FILEL*	DRAWN - SEW	REVISED -
USER NAME = *USER*	CHECKED - SEW	REVISED -
PLOT DATE = *DATE*	DATE - 1/25/10	REVISED -



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

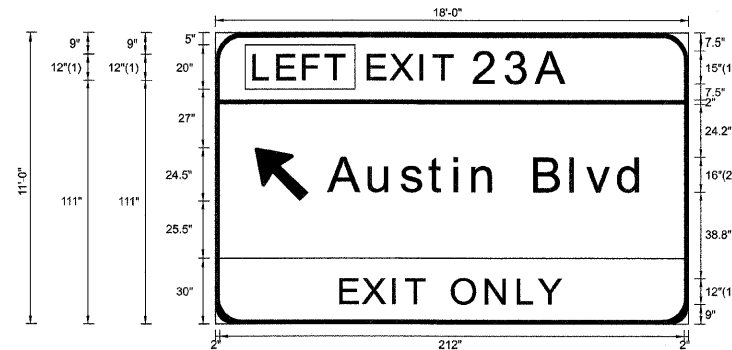
SIGNING DETAILS			
SCALE: N.T.S.	SHEET NO. 11 OF 34 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	135
CONTRACT NO. 60G53				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**SIGN DETAIL**  
1:75

WB-CL-102  
STA. 879+50



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

SIGN NUMBER	name
WIDTH x HGHT.	18'-0" x 11'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White,RedWhite

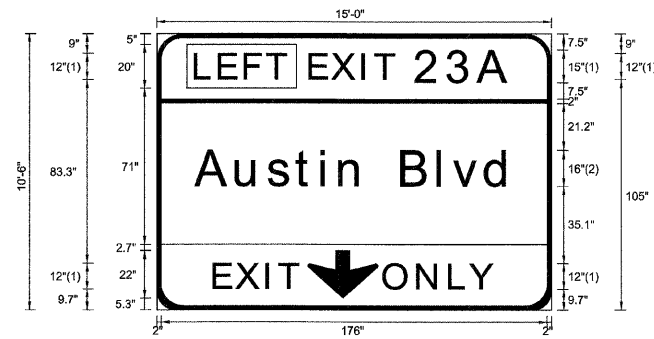
SYMBOL	ROT	X	Y	WID	HT
ARMED	135	18	55.5	20	31.5

LETTER POSITIONS (X)

										LENGTH	SERIESSIZE	
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	I	v	d		ClearviewHwy-5-W-R	
52.2	70.6	85.2	97.9	109.4	117.9	129	146.2	162.8	169.7	184.4	143.8	16/13
E	X	I	T		O	N	L	Y			ClearviewHwy-5-W	
57.5	67.8	81.4	87.4	96	108.7	124.1	138.7	148		101	12	

SIGN DETAIL  
1:75

WB-CL-103  
STA. 885+00



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

SIGN NUMBER	name
WIDTH x HGHT.	15'-0" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White,BlackWhite

SYMBOL	ROT	X	Y	WID	HT
ARDOWN	0	68.9	5.4	32	22

LETTER POSITIONS (X)												LENGTH	SERIESIZE
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	I	v	d			ClearviewHwy-5-W-R
18	36.5	51	63.8	75.3	83.8	94.8	112	128.6	135.6	150.3		143.8	16/13
E	X	I	T										ClearviewHwy-5-W
26.3	36.6	50.3	56.2									38.5	12
O	N	L	Y										ClearviewHwy-5-W
103.9	119.3	134	143.2									49.8	12

FILE NAME =	DESIGNED - SEW	REVISED -
USER NAME = *USER*	CHECKED - SEW	REVISED -
PLOT DATE = *DATE*	DATE - 1/25/10	REVISED -



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S.	SHEET NO. 14 OF 34 SHEETS	STA. TO STA.
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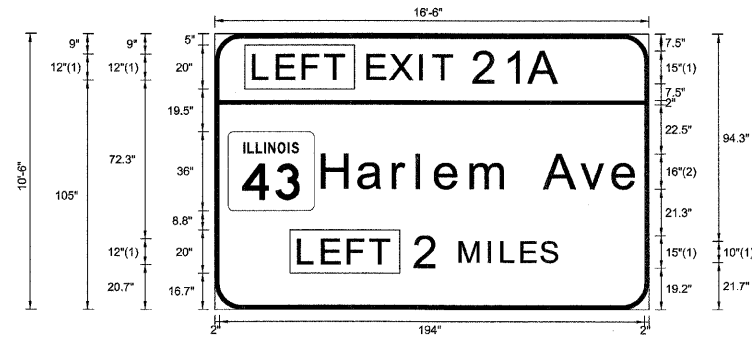
SIGNING DETAILS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	138
CONTRACT NO. 60653				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



SIGN DETAIL  
1:75

WB-TR-105  
STA. 895+10



SIGN NUMBER	name
WIDTH x HGHT.	16'-6" x 10'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1-H100A-2-22-10D		6	45.5	39.3	36

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

Letter locations are panel edge to lower left corner

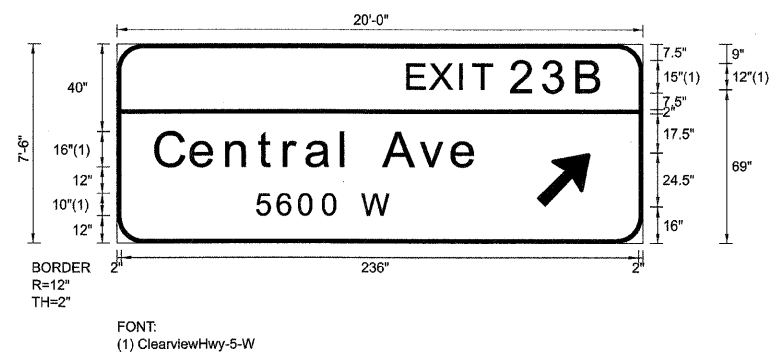
FONT:  
(1) ClearviewHwy-S-W  
(2) ClearviewHwy-S-W-R

LETTER POSITIONS (X)																	LENGTH	SERIESSIZE
L	E	F	T														41.2	ClearviewHwy-5-W 12
18	28.8	40.5	50.6															
E	X	I	T	2	1	A											87.8	ClearviewHwy-5-W 12,15
70.1	80.4	94.1	100	118.6	132.8	143.9												
H	a	r	l	e	m		A	v	e								144.5	ClearviewHwy-5-W-R 16/13
49.3	65.8	81.8	92.8	101	117.2	135.3	150.7	167.3	182									
L	E	F	T														41.2	ClearviewHwy-5-W 12
38.6	49.4	61.1	71.2															
2	M	I	L	E	S												64.6	ClearviewHwy-5-W 15,10
91.8	112.1	125.3	131.2	140.2	149.2													



SIGN DETAIL  
1:75

WB-CL-107  
STA. 909+00



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

Letter locations are panel edge to lower left corner

SIGN NUMBER	name
WIDTH x HGHT.	20'-0" x 7'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

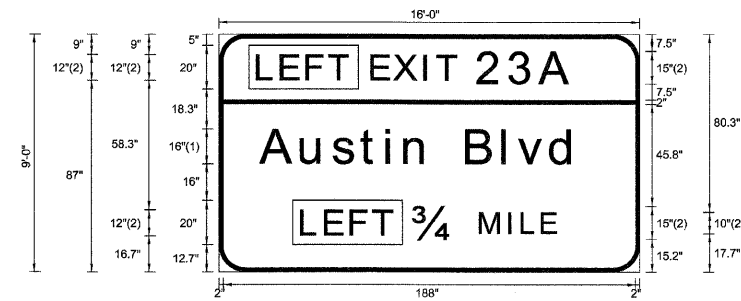
SYMBOL	ROT	X	Y	WID	HT
ARMED	45	191.5	16	20	31.5

LETTER POSITIONS (X)

															LENGTH	SERIESSIZE	
E	X	I	T	2	3	B										ClearviewHwy-5-W	
133	143.3	157	162.9	180.5	194.9	210.7									89	12,15	
C	e	n	t	r	a	l	A	v	e							ClearviewHwy-5-W-R	
18	34.2	50.4	65	76.8	86.8	102.8	107.8	122	138.6	153.3					147.1	16/13	
5	6	0	0	W												ClearviewHwy-5-W-R	
64.2	73.6	83.4	94.4	102.5	112											61.1	10

SIGN DETAIL  
1:75

WB-BM-108  
STA. 916+90



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

Panel Style: guide\_exp\_interchange.ssi  
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	name
WIDTH x HGHT.	16'-0" x 9'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

													LENGTH	SERIESSIZE
L	E	F	T										41.2	ClearviewHwy-5-W 12
18	28.8	40.5	50.6										91	ClearviewHwy-5-W 12,15
E	X	I	T	2	3	A							143.9	ClearviewHwy-5-W-R 16/13
70.2	80.4	94.1	100	118.6	133	147.1							41.2	ClearviewHwy-5-W 12
A	u	s	t	i	n	B	l	v	d				64.7	ClearviewHwy-5-W 15,10
19.4	37.9	52.4	65.2	76.7	85.1	96.2	113.4	130	137	151.7				
L	E	F	T											
38.1	48.9	60.6	70.7											
34	M	I	L	E										
89.3	119.5	132.7	138.6	147.6										

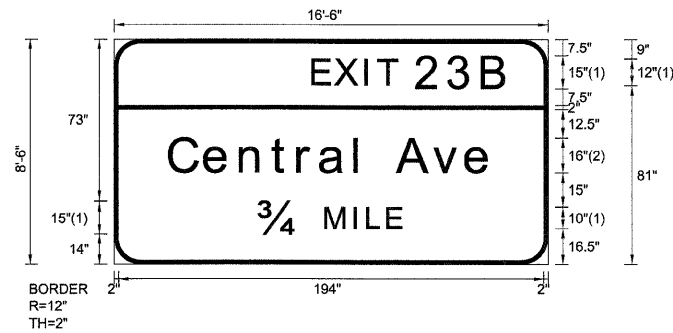




SIGN DETAIL

1:75

WB-BM-112  
STA. 943+70



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

SIGN NUMBER	name
WIDTH x HIGHT.	16'-6" x 8'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

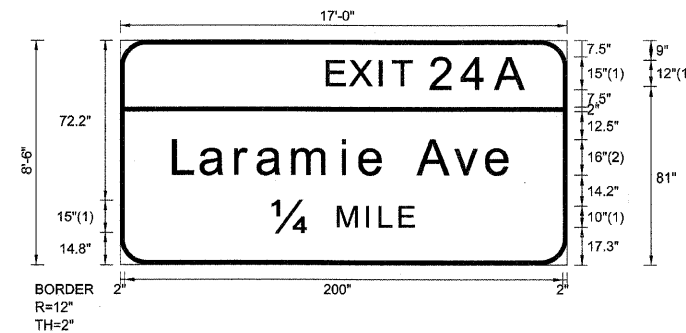
Panel Style: sign\_default.ssi  
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)												LENGTH	SERIESSIZE			
E	X	I	T	2	3	B									89	ClearviewHwy-5-W 12,15
91	101.3	115	120.9	138.5	152.9	168.7										
C	e	n	t	r	a	l	A	v	e						147.1	ClearviewHwy-5-W-R 16/13
25.5	41.7	57.9	72.4	84.3	94.3	110.3	115.3	129.5	146.1	160.8						
34	M	I	L	E											64.7	ClearviewHwy-5-W 15,10
66.7	96.9	110	116	125												

SIGN DETAIL  
1:75

WB-BM-113  
STA. 943+70



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

SIGN NUMBER	name
WIDTH x HGHT.	17'-0" x 8'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

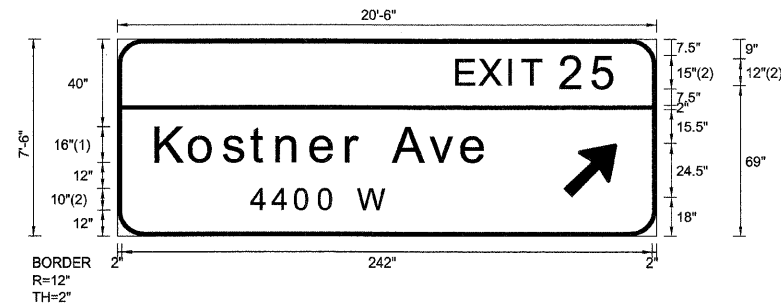
Panel Style: sign\_default.ssi  
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)												LENGTH	SERIESIZE
E	X	I	T	2	4	A							ClearviewHwy-5-W
94.9	105.2	118.9	124.8	142.4	156.9	172						91.1	12,15
L	a	r	a	m	i	e		A	v	e			ClearviewHwy-5-W-R
24.7	37.1	53	63.1	79	101.9	109.7	121.5	136.3	152.9	167.6		154.6	1613
1/4	M	I	L	E									ClearviewHwy-5-W
69.8	99.8	112.9	118.8	127.9								64.5	15,10

SIGN DETAIL  
1:75

WB-BM-115  
STA. 984+95



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

SIGN NUMBER	name
WIDTH x HIGHT.	20'-6" x 7'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
ARMED	45	203.5	18	20	31.5

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

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

																									LENGTH	SERIESSIZE		
E	X	I	T	2	5																							ClearviewHwy-5-W
155.3	165.6	179.2	185.1	202.8	217.7																						72.7	12.15
K	o	s	t	n	e	r		A	v	e																		ClearviewHwy-5-W-R
18	33.3	48.6	61.4	73.2	88.7	104.9	112.3	126.3	142.9	157.6																151.3	16.13	
4	4	0	0		W																							ClearviewHwy-5-W-R
61.3	71.1	81.3	92.2	100.3	109.9																						61.8	10

FILE NAME =	DESIGNED - SEW	REVISED -
\$FILEL\$	DRAWN - SEW	REVISED -
USER NAME = \$USER\$	CHECKED - SEW	REVISED -
PLOT DATE = \$DATE\$	DATE - 1/25/10	REVISED -



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS

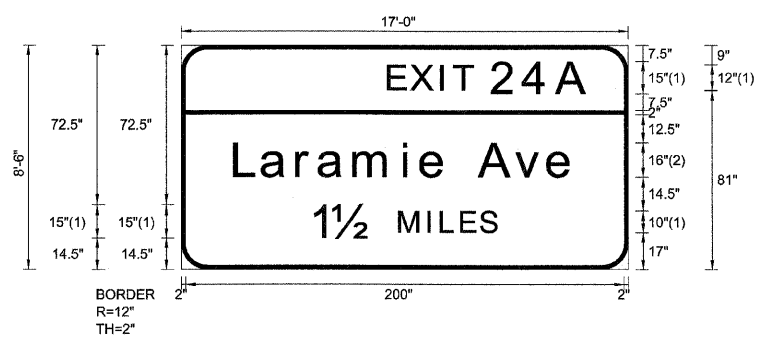
SCALE: N.T.S. SHEET NO. 23 OF 34 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	147
CONTRACT NO. 60G53				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SIGN DETAIL  
1:75

WB-BM-116  
STA. 1013+75

SIGN NUMBER	name
WIDTH x HGHT.	17'-0" x 8'-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)

LETTER POSITIONS (X)												LENGTH	SERIESSIZE
E	X	I	T	2	4	A							ClearviewHwy-5-W
94.9	105.2	118.9	124.8	142.4	156.9	172						91.1	12,15
L	a	r	a	m	i	e	A	v	e				ClearviewHwy-5-W-R
24.7	37.1	53	63.1	79	101.9	109.7	121.5	136.3	152.9	167.6		154.6	1613
1	12	M	I	L	E	S							ClearviewHwy-5-W
59.8	69.6	99.9	113	119	128	137						84.4	15,10

FILE NAME =	DESIGNED - SEW	REVISED -
*FILEL*	DRAWN - SEW	REVISED -
USER NAME = *USER*	CHECKED - SEW	REVISED -
PLOT DATE = *DATE*	DATE - 1/25/10	REVISED -



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS			
SCALE: N.T.S.	SHEET NO. 24 OF 34 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	148
FED. ROAD DIST. NO.				ILLINOIS FED. AID PROJECT
CONTRACT NO. 60G53				

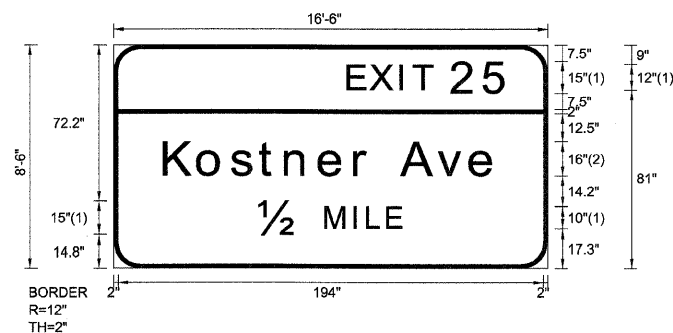


SIGN DETAIL

1:75

WB-BM-117  
STA. 1013+75

SIGN NUMBER	name
WIDTH x HGHT.	16'-6" x 8'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White



BORDER  
R=12"  
TH=2"

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

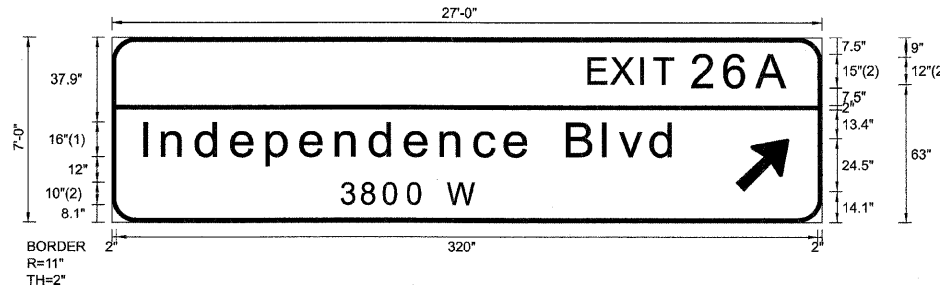
SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

																LENGTH	SERIESIZE	
E	X	I	T	2	5												ClearviewHwy-5-W	
107.3	117.6	131.2	137.2	154.8	169.7												72.7	12,15
K	o	s	t	n	e	r		A	v	e								ClearviewHwy-5-W-R
23.4	38.6	54	66.7	78.6	94.1	110.3	117.6	131.6	148.2	162.9							151.3	1613
12	M	I	L	E														ClearviewHwy-5-W
66.6	97	110.1	116	125.1													64.8	15,10

SIGN DETAIL  
1:75

WB-BM-119  
STA. 1024+90



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

SIGN NUMBER	name
WIDTH x HGHT.	27'-0" x 7'-0"
BORDER WIDTH	2"
CORNER RADIUS	11"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
ARMED	45	284.5	14.1	20	31.5

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

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

																								LENGTH	SERIESSIZE
E	X	I	T	2	6	A																			ClearviewHwy-5-W
218	228.3	241.9	247.8	265.5	280.6	295																		91	12,15
I	n	d	e	p	e	n	d	e	n	c	e		B	I	v	d									ClearviewHwy-5-W-R
15	23.4	38.9	54.9	71.1	86.5	102.7	118.3	134.3	150.5	166	179.9	191.6	208.2	224.8	231.7	246.4								243	1613
3	8	0	0		W																				ClearviewHwy-5-W-R
104.7	114.3	124.4	135.3	143.5	153.3																			61.9	10

FILE NAME =	DESIGNED - SEW	REVISED -
#FILE#	DRAWN - SEW	REVISED -
USER NAME = #USER#	CHECKED - SEW	REVISED -
PLOT DATE = #DATE#	DATE - 1/25/10	REVISED -



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S.	SHEET NO. 26 OF 34 SHEETS	STA. _____	TO STA. _____
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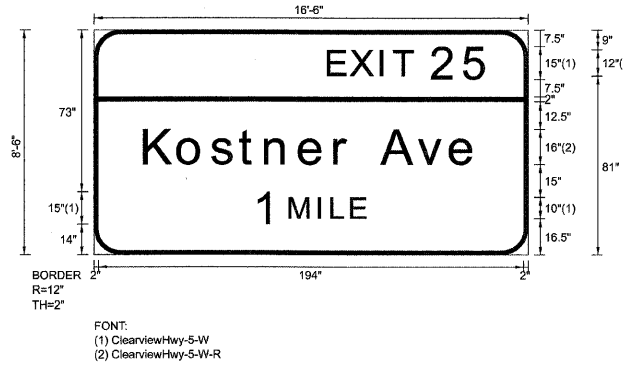
SIGNING DETAILS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	150
CONTRACT NO. 60G53				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SIGN DETAIL  
1:75

WB-BM-120  
STA. 1038+10

SIGN NUMBER	name
WIDTH x HGHT.	16'-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.esi  
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

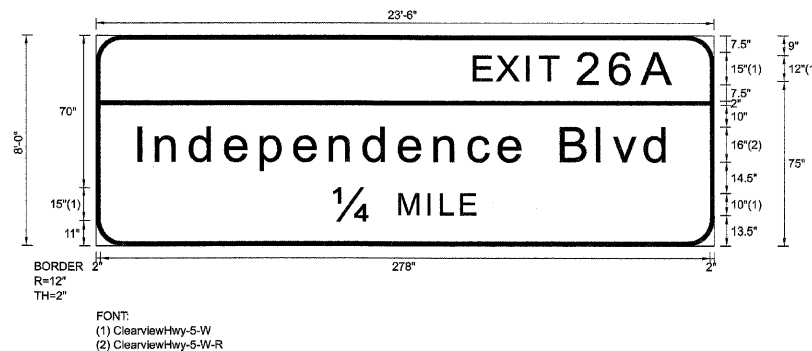
SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)										LENGTH	SERIESSIZE	
E	X	I	T	2	5						ClearviewHwy-5-W	
107.3	117.6	131.2	137.1	154.8	169.7					72.7	12,15	
K	o	s	t	n	e	r		A	v	e	ClearviewHwy-5-W-R	
23.3	38.6	54	66.7	78.6	94.1	110.3	117.6	131.6	148.2	162.9	151.3	1613
1	M	I	L	E							ClearviewHwy-5-W	
73.9	89.7	102.8	108.7	117.8							50.2	15,10

**SIGN DETAIL**

1:75

WB-BM-121  
STA. 1038+10



SIGN NUMBER	name
WIDTH x HGHT.	23'-6" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

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

Letter locations are panel edge to lower left corner

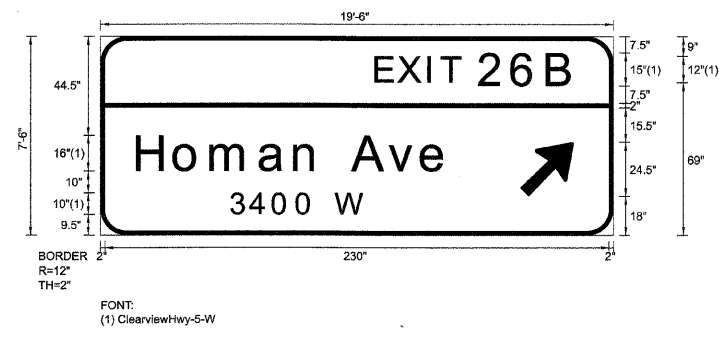
**LETTER POSITIONS (X)**

															LENGTH	SERIESSIZE	
E	X	I	T	2	6	A											ClearviewHwy-5-W
173	183.3	196.9	202.8	220.5	235.6	250											91 12,15
I	n	d	e	p	e	n	d	e	n	c	e	B	I	v	d		ClearviewHwy-5-W-R
19.5	27.9	43.4	59.4	75.6	91	107.2	122.8	138.8	155	170.5	184.4	196.1	212.7	229.3	236.2	250.9	243 16,13
14	M	I	L	E													ClearviewHwy-5-W
108.8	138.8	151.9	157.8	166.9													64.5 15,10

**SIGN DETAIL**  
1:75

WB-BM-123  
STA. 1051+55

SIGN NUMBER	name
WIDTH x HGHT.	19'-6" x 7'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

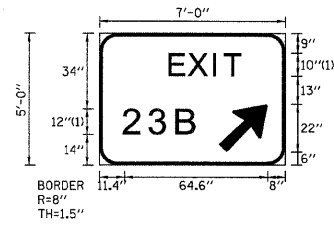


Panel Style: sign\_default.ssi  
Dimensions are in inches,tenths

Letter locations are panel edge to lower left corner

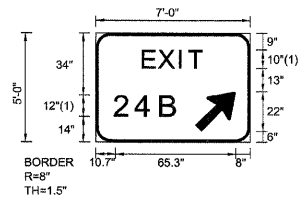
SYMBOL	ROT	X	Y	WID	HT
ARMED	45	191.5	18	20	31.5

LETTER POSITIONS (X)															LENGTH	SERIESSIZE							
E	X	I	T	2	6	B															ClearviewHwy-5-W		
126	136.3	149.9	155.9	173.5	188.6	204.6															90	12,15	
H	o	m	a	n		A	v	e														ClearviewHwy-5-W-R	
17.1	34	50.7	72.9	88.9	100	115.4	132	146.7														141.3	16/13
3	4	0	0		W																	ClearviewHwy-5-W-R	
59.5	68.6	78.9	89.8	97.9	107.5																	61.2	10



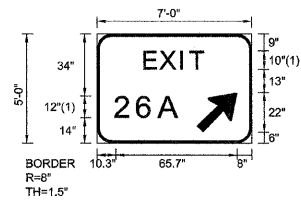
FONT:  
(1) ClearviewHwy-5-W

EB-WP-94  
STA. 881+05



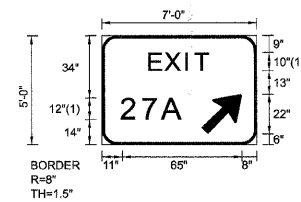
FONT:  
(1) ClearviewHwy-5-W

EB-WP-97  
STA. 935+70



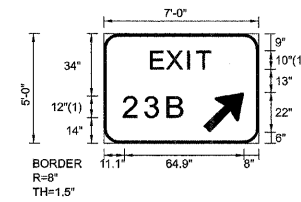
FONT:  
(1) ClearviewHwy-5-W

EB-WP-102  
STA. 1004+50



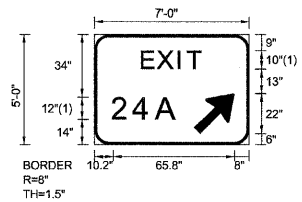
FONT:  
(1) ClearviewHwy-5-W

EB-WP-106  
STA. 1058+50



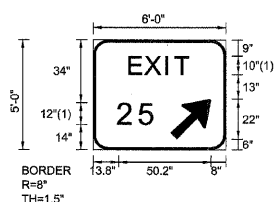
FONT:  
(1) ClearviewHwy-5-W

WB-WP-106  
STA. 899+00



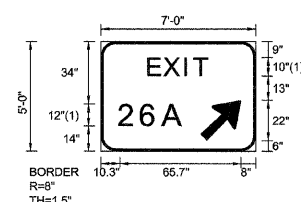
FONT:  
(1) ClearviewHwy-5-W

WB-WP-110  
STA. 924+80



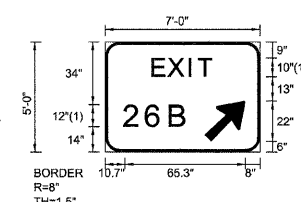
FONT:  
(1) ClearviewHwy-5-W

WB-WP-114  
STA. 977+90



FONT:  
(1) ClearviewHwy-5-W

WB-WP-118  
STA. 1019+30



FONT:  
(1) ClearviewHwy-5-W

WB-WP-122  
STA. 1045+70

FILE NAME =	DESIGNED - SEW	REVISED -
*FILE#	DRAWN - SEW	REVISED -
USER NAME = #USER#	CHECKED - SEW	REVISED -
PLOT DATE = #DATE#	DATE - 1/25/10	REVISED -

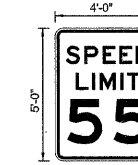
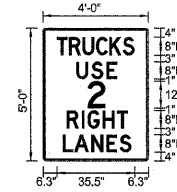
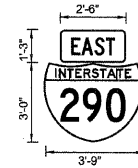


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

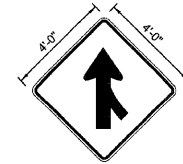
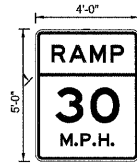
SIGNING DETAILS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	154
CONTRACT NO. 60G53				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



NAME	STATION			NAME	STATION			NAME	STATION	NAME	STATION		
WB-PM-110B	929+34			EB-WP-93B	876+60			EB-TS-95B	920+30	EB-PM-94D	913+47		
WB-TS-115D	997+14			EB-PM-94C	908+96			EB-PM-99C	992+19	EB-WP-99B	989+70		
				EB-TS-102D	1026+96			EB-TS-103B	1048+91	EB-TS-102E	1031+10		
								EB-TS-108B	1070+46	EB-PM-102F	1032+08		
								WB-WP-109B	921+46	WB-TS-115C	992+38		
								WB-PM-115B	985+62				
								WB-PM-121B	1040+50				



NAME	STATION	NAME	STATION	NAME	STATION	NAME	STATION
EB-TS-93A	880+17	WB-PM-102A	879+50	EB-WP-94B	898+45	WB-WP-102B	884+86
EB-PM-96B	934+31	WB-TS-106A	903+00	EB-WP-95C	923+48	WB-TS-111B	937+41
EB-TS-101B	1003+57	WB-PM-110A	926+11	EB-WP-98C	976+86	WB-BM-115F	1004+79
EB-PM-105B	1057+17	WB-TS-114A	980+40	EB-WP-102B	1019+35	WB-TS-123B	1059+48
		WB-PM-118A	1020+46	EB-WP-103C	1046+93		
		WB-TS-122A	1046+75				

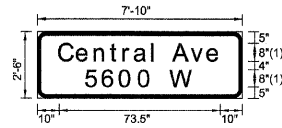
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USER NAME = #USER#	CHECKED - SEW	REVISED -
PLOT DATE = #DATE#	DATE - 1/25/10	REVISED -



**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SIGNING DETAILS			
SCALE: N.T.S.	SHEET NO. 31 OF 34 SHEETS	STA.	TO STA.

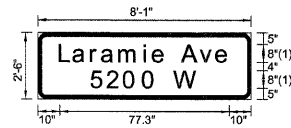
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	155
CONTRACT NO. 60G53				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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

EB-TS-94A  
STA. 889+38

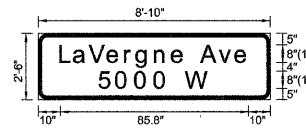
WB-TS-103A  
STA. 891+08



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

EB-BM-95A  
STA. 916+10

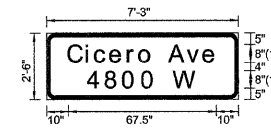
WB-BM-109A  
STA. 916+90



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

EB-BM-96A  
STA. 931+80

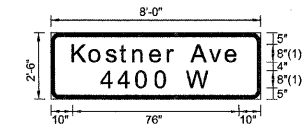
WB-BM-111A  
STA. 931+90



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

EB-BM-98A  
STA. 942+80

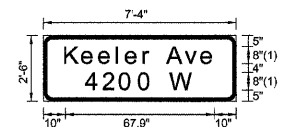
WB-BM-113A  
943+70



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

EB-BM-98B  
STA. 970+36

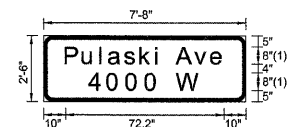
WB-BM-113B  
STA. 971+73



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

EB-BM-99A  
STA. 984+25

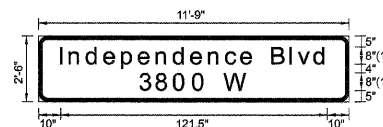
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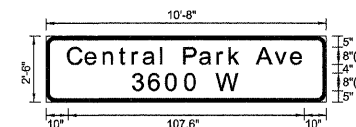
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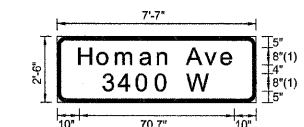
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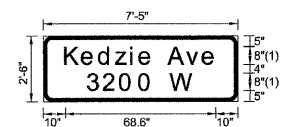
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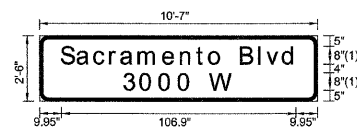
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WB-BM-123A  
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WB-BM-123C  
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PLOT DATE = *DATE*	DATE - 1/25/10	REVISED -



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

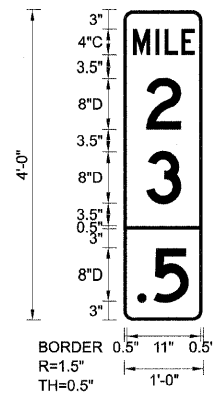
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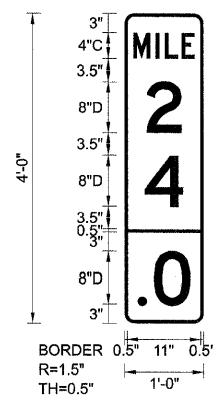
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CONTRACT NO. 60653				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



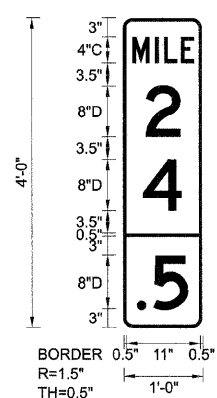
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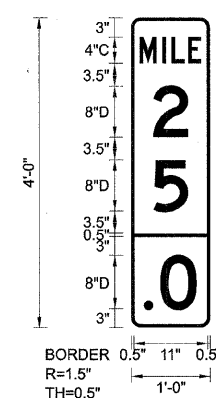
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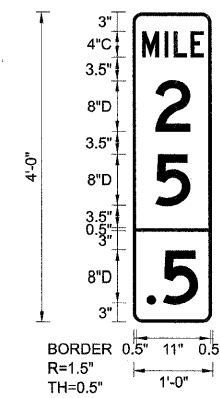
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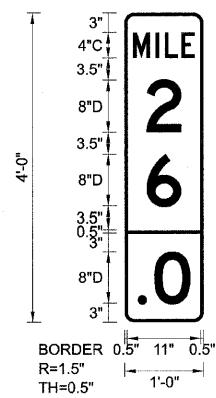
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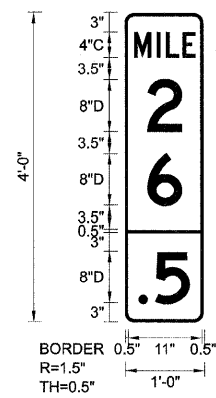
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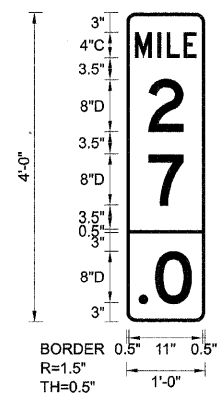
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EB-MM-54  
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EB-MM-55  
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USER NAME = *USER*	CHECKED - SEW	REVISED -
PLOT DATE = *DATE*	DATE - 1/25/10	REVISED -

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

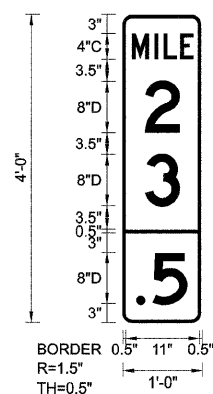
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS

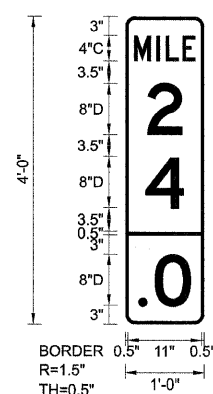
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FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60G53	

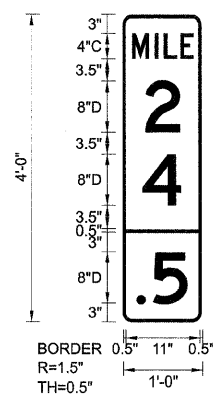
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STA. 880+20



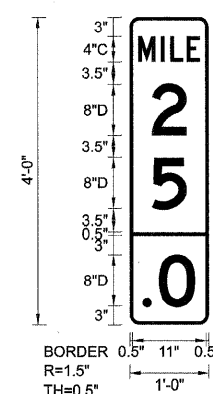
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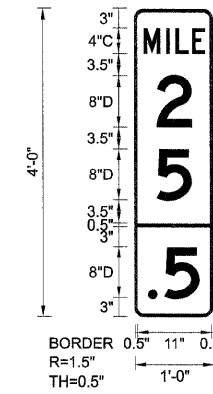
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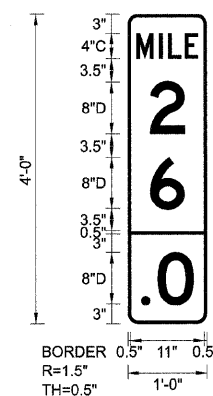
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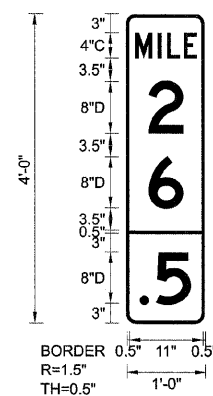
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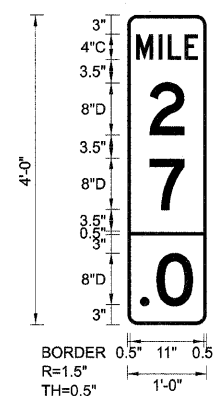
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WB-MM-54  
STA. 1038+60



WB-MM-55  
STA. 1065+00



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USER NAME = *USER*	CHECKED - SEW	REVISED -
PLOT DATE = *DATE*	DATE - 1/25/10	REVISED -



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS

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

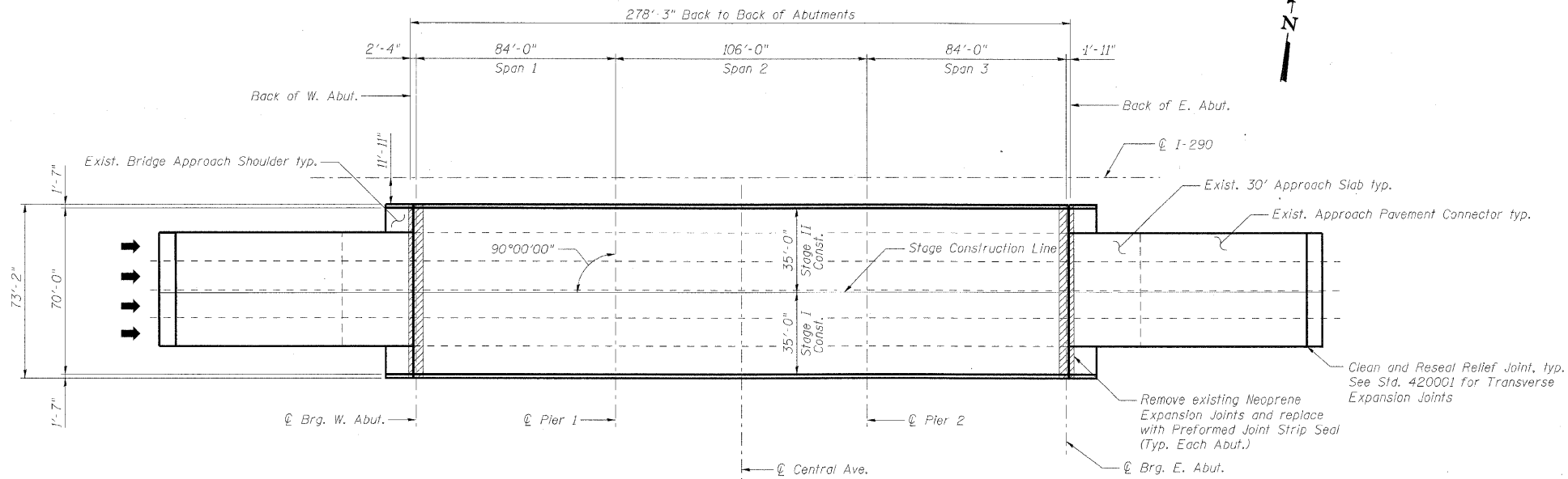
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FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60G53	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

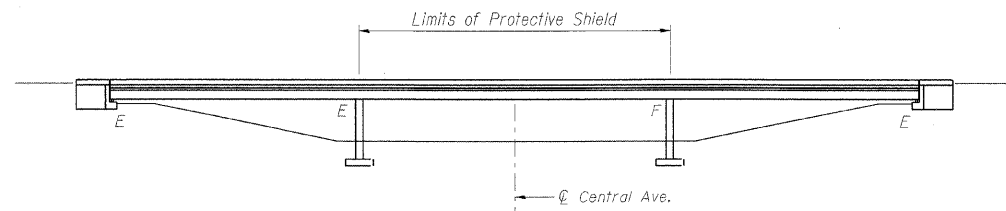
**Existing Structure:**  
The structure is a three-span continuous, composite plate girder structure with a 7-inch reinforced concrete deck and a 2-inch concrete overlay. The original structure was built in 1957 as FAI Route 1, Section 062-3031.2-MFT. In 1983, the bridge was widened, patched and overlaid and the approach slabs, backwalls and expansion joints were reconstructed. In 1998, the expansion joints were reconstructed and the approach slabs were repaired.

Stage construction shall be utilized to maintain traffic during construction.

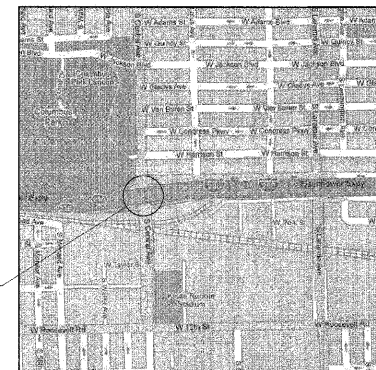
No salvage.



PLAN



ELEVATION



LOCATION SKETCH

**DESIGN SPECIFICATIONS**

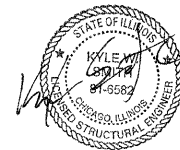
2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

**DESIGN STRESSES**

$f'_c = 3,500 \text{ psi}$   
 $f_y = 60,000 \text{ psi}$

**SCOPE OF WORK**

1. Repair bridge deck.
2. Repair approach slab.
3. Reconstruct deck joints at each abutment with preformed joint strip seal.
4. Clean and reseal relief joints at the ends of approach pavement connectors.
5. Apply concrete sealer to bridge deck, parapets, approach slabs, abutment seats and backwalls.



EXPIRATION DATE: 11-30-10  
DATE: 01/22/10

GENERAL PLAN AND ELEVATION  
I-290 EB OVER CENTRAL AVENUE  
COOK COUNTY  
STATION 889+92  
STRUCTURE NO. 016-0094

DESIGNED -	MFB
CHECKED -	KWS
DRAWN -	RMG
CHECKED -	KWS

**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 8 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	290	(2727, ETC., 3131)RS-7	COOK	216	159
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		
CONTRACT NO. 60G53					

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES**

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.  
As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding 1/4 inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
4. 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.
5. Concrete Sealer shall be applied to the bridge deck, parapets, approach slabs, abutment seats and abutment backwalls. All surfaces to be sealed shall be cleaned thoroughly prior to sealer application. Cost included with Concrete Sealer.
6. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
7. Stage construction shall be utilized to maintain traffic during construction.
8. The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams and diaphragms integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams and diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
9. Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.

**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 Expansion Joint Repairs
- 6 Expansion Joint Details
- 7 Preformed Joint Strip Seal
- 8 Bar Splicer Assembly Details

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	23.5		23.5
Protective Shield	Sq. Yd.	10		10
Concrete Superstructure	Cu. Yd.	23.5		23.5
Reinforcement Bars, Epoxy Coated	Pound	2,430		2,430
Bar Splicers	Each	22		22
Preformed Joint Strip Seal	Foot	144.0		144.0
Concrete Sealer	Sq. Ft.	24,536	790	25,326
Approach Slab Repair (Partial Depth)	Sq. Yd.	12.1		12.1
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	5.0		5.0
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	5.0		5.0
Deck Slab Repair (Partial)	Sq. Yd.	5.0		5.0
Cleaning and Painting Exposed Rebar (Special)	Sq. Ft.	125		125
Clean and Reseal Relief Joint	Foot	96.0		96.0

DESIGNED -	MFB
CHECKED -	KWS
DRAWN -	VH
CHECKED -	KWS

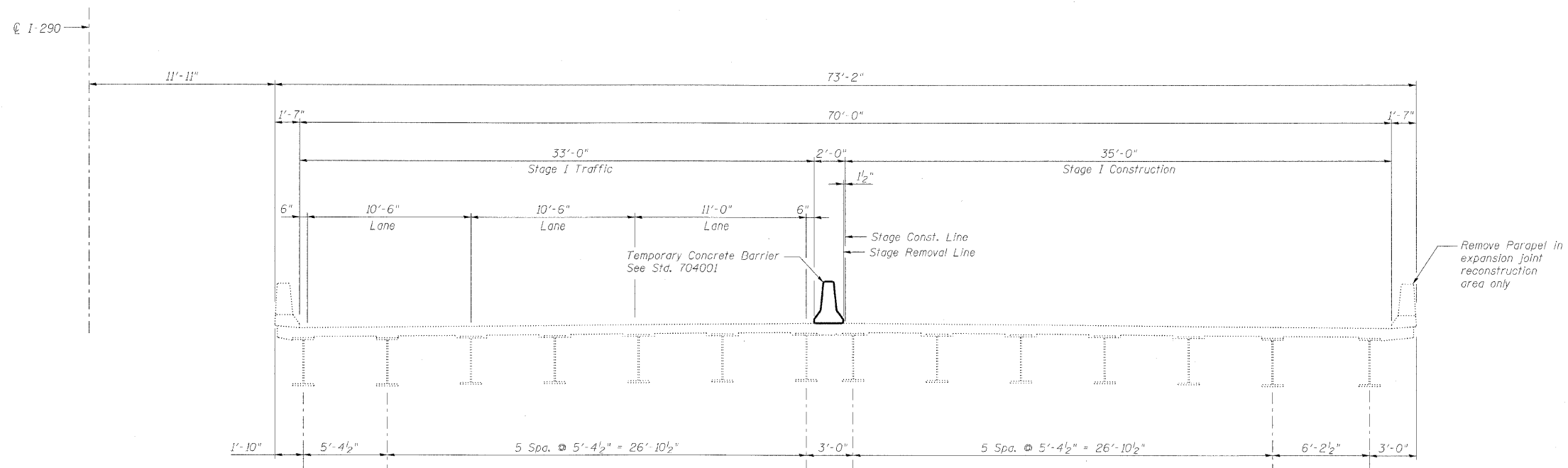
**GENERAL NOTES, BILL OF MATERIAL  
AND INDEX OF SHEETS  
STRUCTURE NO. 016-0094**

**benesch**

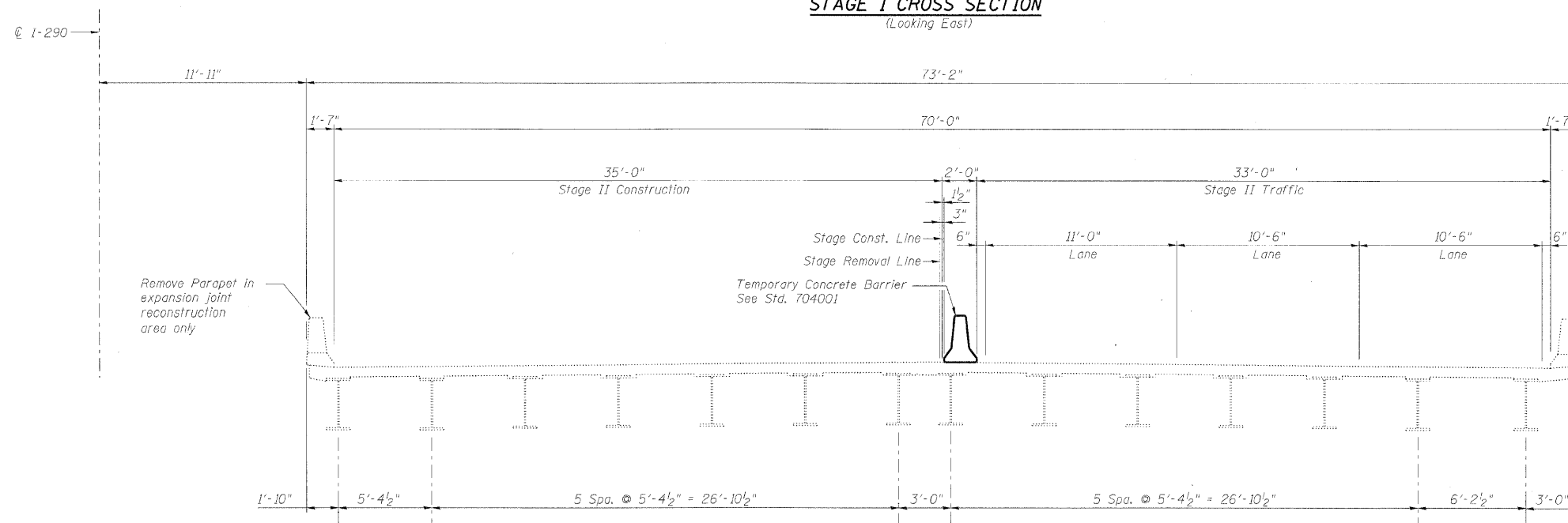
alfred benesch & company  
Engineers • Surveyors • Planners  
205 North Michigan Avenue, Suite 2400  
Chicago, Illinois 60601  
312-865-0450 Job No. 10050

SHEET NO. 2  8 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	290	(2727, ETC., 3131)RS-7	COOK	216	160
			CONTRACT NO. 60G53		
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)

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

DESIGNED	MFB
CHECKED	KWS
DRAWN	VH
CHECKED	KWS

**benesch**

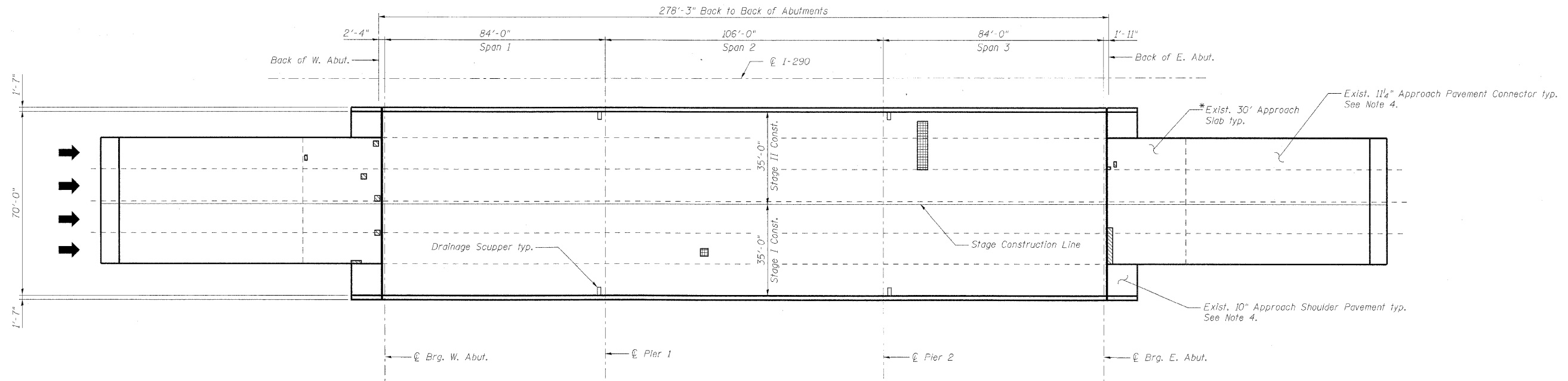
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Engineers • Surveyors • Planners  
205 North Michigan Avenue, Suite 2400  
Chicago, Illinois 60601  
312-565-0450 Job No. 10050

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	290	(2727, ETC., 3131)RS-7	COOK	216	161
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 60G53		

**STAGE CONSTRUCTION DETAILS**  
**STRUCTURE NO. 016-0094**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

\* See Section B-B on Expansion Joint Details sheet for the location of the start of the 30' Approach Slab.

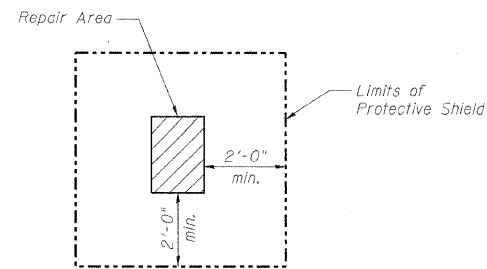


PLAN

BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
	Deck Slab Repair (Partial)	Sq. Yd.	5.0**
	Deck Slab Repair (Full Depth - Type I)	Sq. Yd.	5.0**
	Deck Slab Repair (Full Depth - Type II)	Sq. Yd.	5.0**
	Cleaning & Painting Exposed Rebar (Special)	Sq. Ft.	125
	Approach Slab Repair (Partial Depth)	Sq. Yd.	12.1
	Protective Shield	Sq. Yd.	10

\*\* The quantity shown is provided as a contingency in the event the Resident Engineer determines that deck slab repair is required.



PROTECTIVE SHIELD DETAIL

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.
- Protective Shield required for deck slab and/or parapet repairs shall be installed according to Article 501.03 of the Standard Specifications. For limits of Protective Shield, see Protective Shield Detail on this sheet and Elevation on General Plan and Elevation sheet.
- 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 Engineer shall determine the type and quantity of Class A patching and the quantity of Mixture for Cracks, Joints and Flangeways. Estimated quantities are included in the overall Summary of Quantities in Roadway Plans.

DESIGNED -	MFB
CHECKED -	KWS
DRAWN -	RMG
CHECKED -	KWS

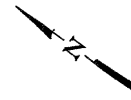
BRIDGE DECK  
AND APPROACH SLAB REPAIRS  
STRUCTURE NO. 016-0094

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

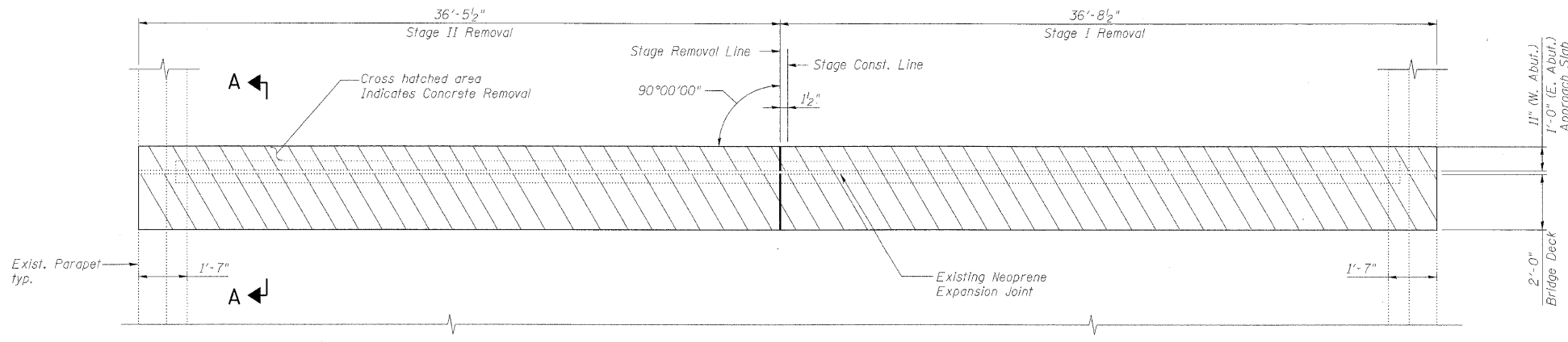
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FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
				CONTRACT NO. 60G53	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

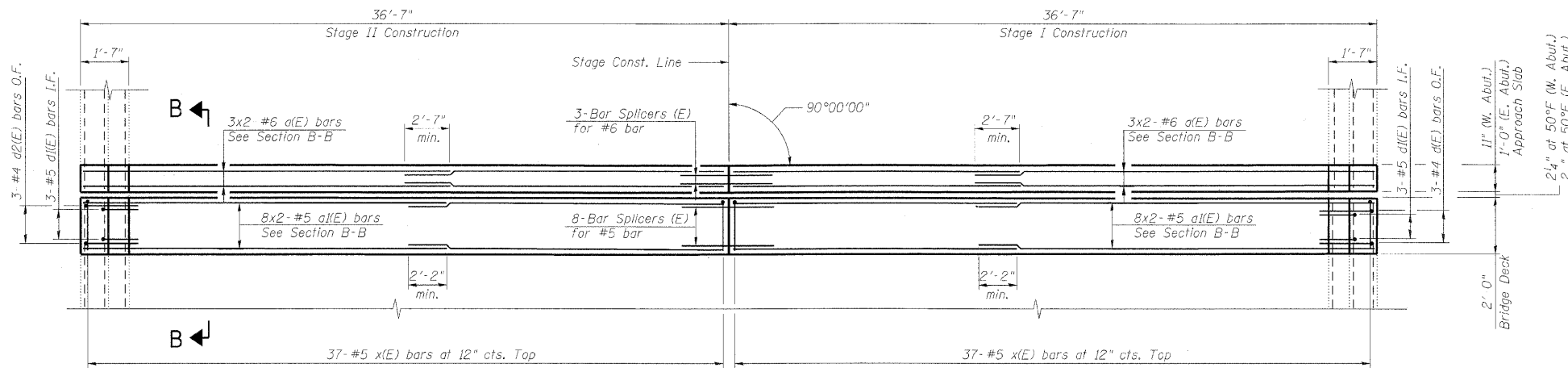


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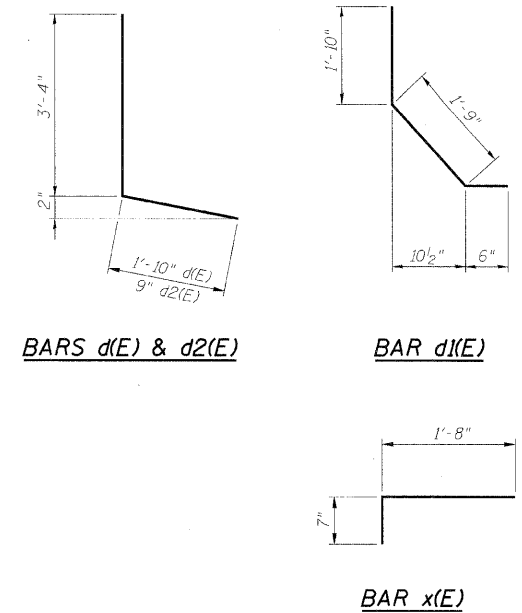
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a1(E)	64	#5	19'-3"	—	
d(E)	6	#4	5'-2"	└┘	
d1(E)	12	#5	4'-1"	└┘	
d2(E)	6	#4	4'-1"	└┘	
x(E)	148	#5	2'-3"	└┘	
Item				Unit	Total
Concrete Removal				Cu. Yd.	23.5
Concrete Superstructure				Cu. Yd.	23.5
Reinforcement Bars, Epoxy Coated				Pound	2,430



**EXISTING PARTIAL PLAN AT EAST ABUTMENT**  
(Opposite Hand for West Abutment)



**PROPOSED PARTIAL PLAN AT EAST ABUTMENT**  
(Opposite Hand for West Abutment)



**Notes:**

1. Bars indicated thus 8x2-#5 etc. indicates 8 lines of bars with 2 lengths per line.
2. I.F. denotes Inside Face.  
O.F. denotes Outside Face.
3. Work this sheet with Expansion Joint Details sheet and Bar Splicer Assembly Details sheet.

DESIGNED	MFB
CHECKED	KWS
DRAWN	VH
CHECKED	KWS

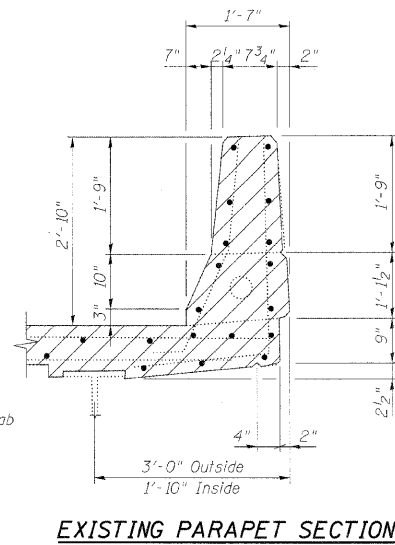
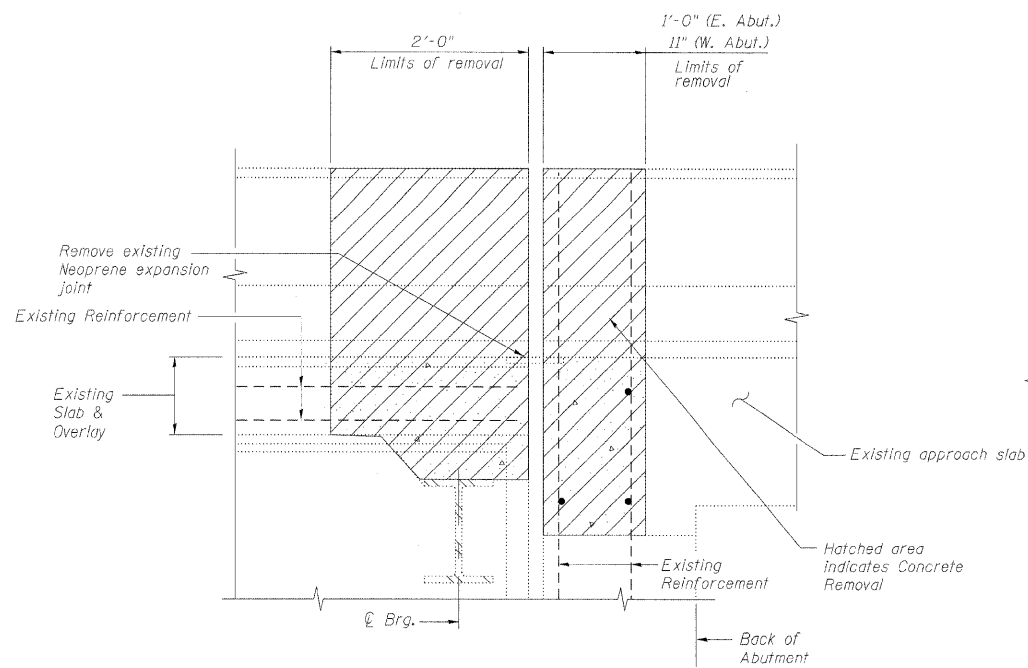
**benesch**

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205 North Michigan Avenue, Suite 2400  
Chicago, Illinois 60601  
312-666-0450 Job No. 10050

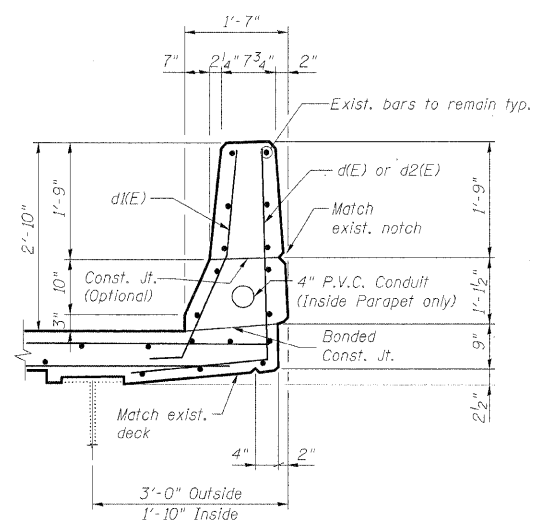
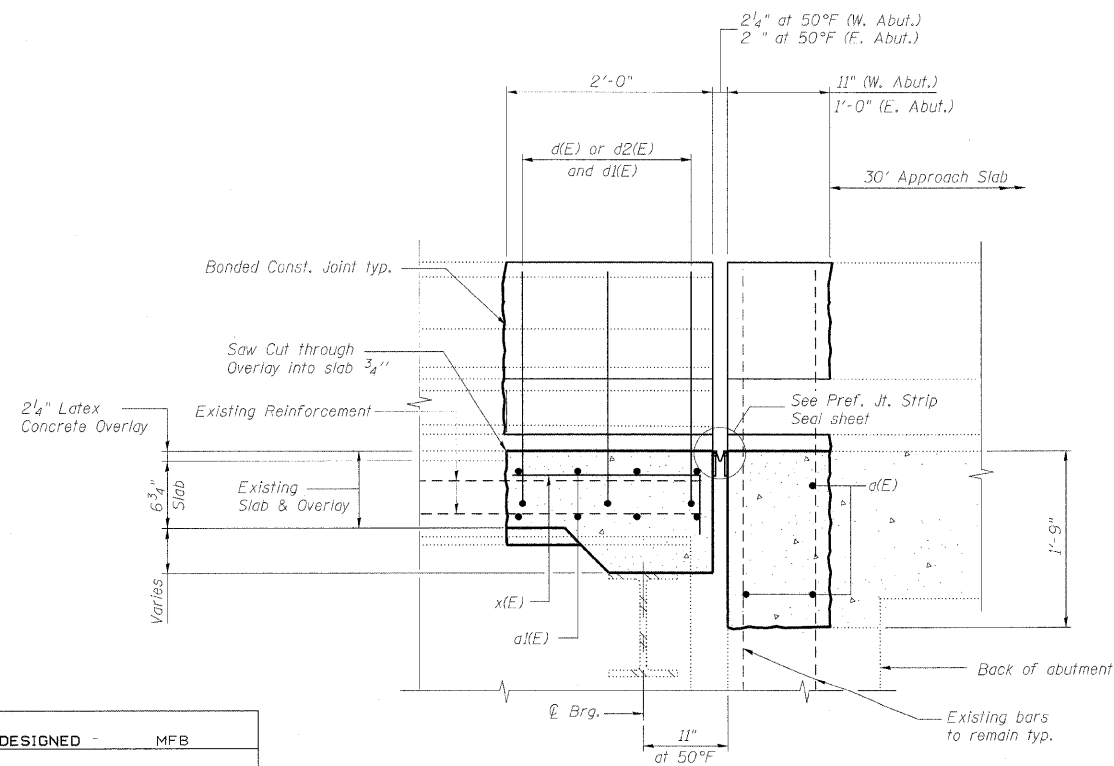
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FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60G53					

**EXPANSION JOINT REPAIRS**  
**STRUCTURE NO. 016-0094**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



SECTION A-A



PROPOSED PARAPET SECTION

Notes:

- Existing reinforcement bars extending into the concrete removal area shall be blast-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 Concrete Removal.
- Existing reinforcement bars in the concrete removal area parallel to the expansion joints shall be removed.
- Removal and disposal of the existing expansion joints will not be paid for separately, but shall be included with the cost of Concrete Removal.
- If existing name plate falls within the limits of Concrete Removal, it shall be removed and reinstalled in its original location in accordance with IDOT Std. 515001. Cost included with Concrete Superstructure.
- If existing guardrail and/or end shoe falls within the limits of Concrete Removal, they shall be removed and reinstalled in its original location in accordance with District 1 Std. BM-21. Cost included with Concrete Superstructure.
- The Contractor shall exercise extreme care with the existing conduits in sections of the parapet to be removed and shall protect and support the conduit. The Contractor will be required to repair any damage done to the conduit to the satisfaction of the Engineer at no additional cost to the Department. 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.
- Work this sheet with Expansion Joint Repairs sheet.

DESIGNED	MFB
CHECKED	KWS
DRAWN	VH
CHECKED	KWS

SECTION B-B

EXPANSION JOINT DETAILS  
STRUCTURE NO. 016-0094

benesch

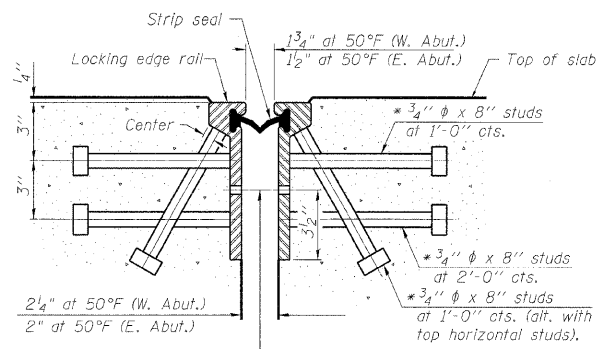
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Engineers • Surveyors • Planners  
205 North Michigan Avenue, Suite 2400  
Chicago, Illinois 60601  
312-565-0450 Job No. 10050

SHEET NO. 6 8 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	290	(2727, ETC., 3131)RS-7	COOK	216	164
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 60G53		



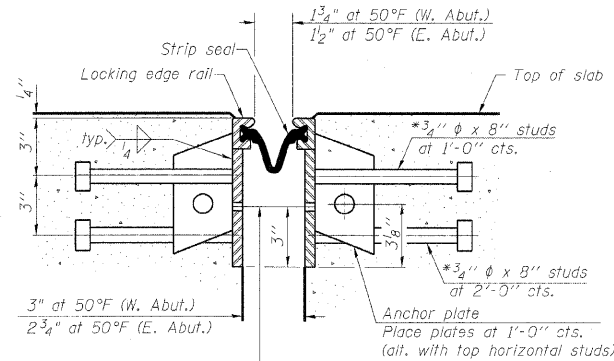
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



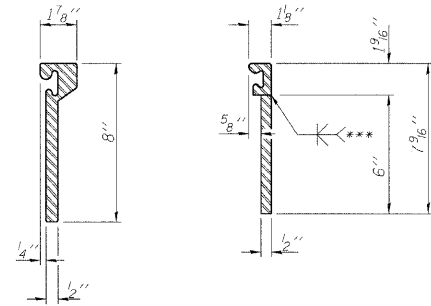
7/16"  $\phi$  holes at 4'-0" cts. for 3/8"  $\phi$  bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

SECTION THRU  
ROLLED RAIL JOINT

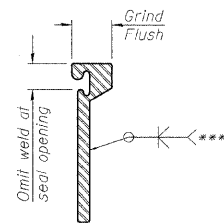


7/16"  $\phi$  holes at 4'-0" cts. for 3/8"  $\phi$  bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

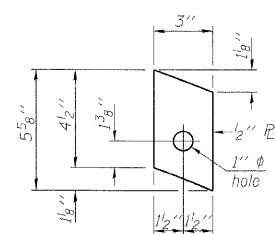
SECTION THRU  
WELDED RAIL JOINT



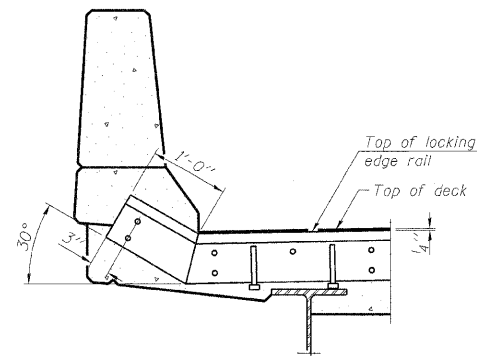
ROLLED  
EXTRUDED RAIL      WELDED RAIL



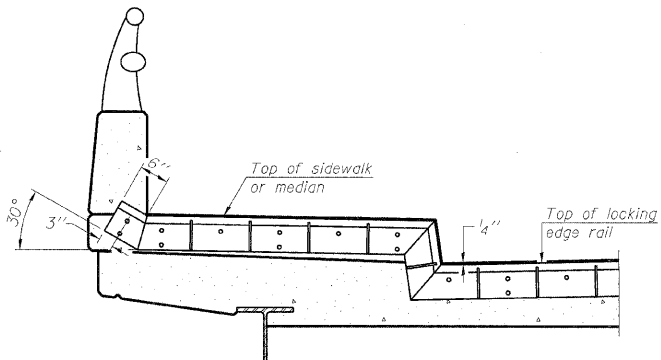
\*\*\*Back gouge not required if complete joint penetration is verified by mock-up.



ANCHOR PLATE  
(for welded rail)



AT PARAPET



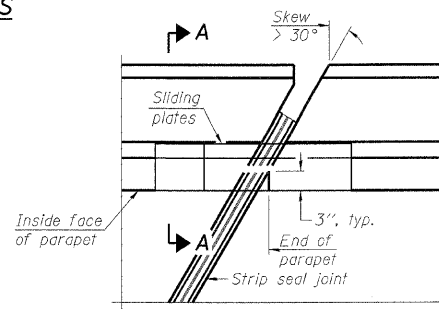
AT SIDEWALK OR MEDIAN

Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

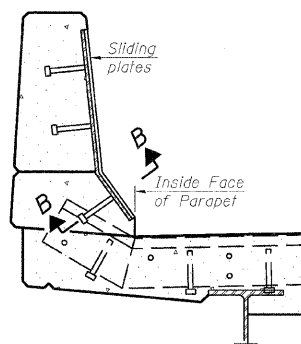
LOCKING EDGE RAILS

LOCKING EDGE  
RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residus.



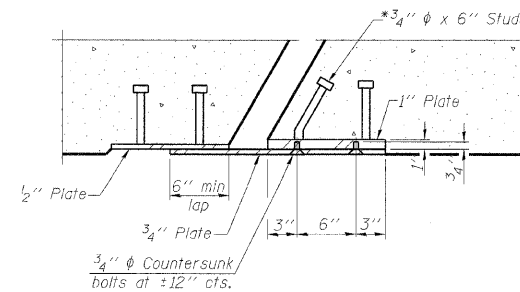
PLAN



SECTION A-A

POINT BLOCK DETAILS  
(for skews > 30°)

TYPICAL END TREATMENTS



SECTION B-B

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	144

DESIGNED	MFB
CHECKED	KWS
DRAWN	VH
CHECKED	KWS

EJ-SSJ

10-1-08

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Chicago, Illinois 60601  
312-565-0450      Job No. 10050

SHEET NO. 7	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	290	(2727, ETC., 3131)RS-7	COOK	216	165
8 SHEETS	CONTRACT NO. 60G53				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

PREFORMED JOINT STRIP SEAL  
STRUCTURE NO. 016-0094

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

The diameter of this part is equal or larger than the diameter of bar spliced.

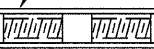
The diameter of this part is the same as the diameter of the bar spliced.

ROLLED THREAD DOWEL BAR



\*\* ONE PIECE

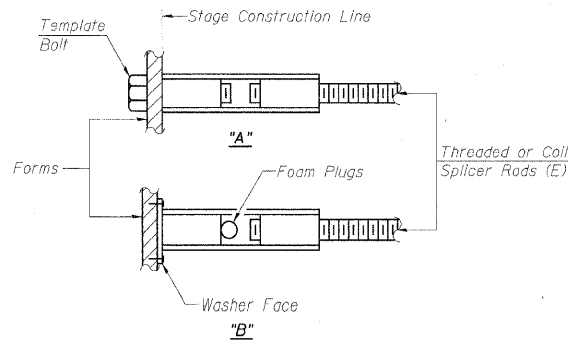
Wire Connector



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

\*\*Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

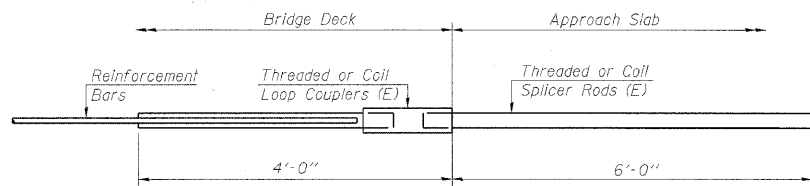
"A": Set bar splicer assembly by means of a template bolt.  
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
(E): Indicates epoxy coating.

Notes:

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.  
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.  
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.  
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.  
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

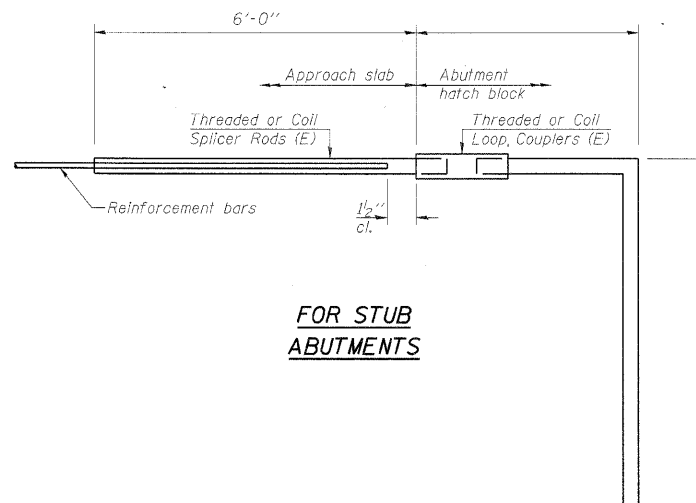
- ① Minimum Capacity =  $1.25 \times f_y \times A_s$   
(Tension in kips)
  - ② Minimum \*Pull-out Strength =  $0.66 \times f_y \times A_s$   
(Tension in kips)
- Where  $f_y$  = Yield strength of lapped reinforcement bars in ksi.  
 $A_s$  = Tensile stress area of lapped reinforcement bars.  
\* = 28 day concrete

Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-2"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



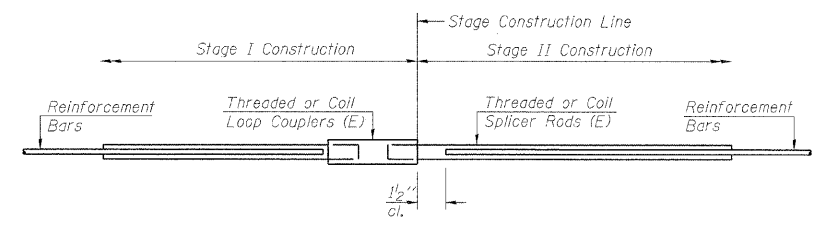
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar	
Min. Capacity =	23.0 kips - tension
Min. Pull-out Strength =	12.3 kips - tension
No. Required =	



FOR STUB ABUTMENTS

Bar Splicer for #5 bar	
Min. Capacity =	23.0 kips - tension
Min. Pull-out Strength =	12.3 kips - tension
No. Required =	



STANDARD

Bar Size	No. Assemblies Required	Location
#5	16	Deck
#6	6	Deck

DESIGNED -	MFB
CHECKED -	KWS
DRAWN -	VH
CHECKED -	MFB

BSD-1

10-1-08

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312-665-0450 Job No. 10060

SHEET NO. 8 8 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	290	(2727, ETC., 3131)RS-7	COOK	216	166
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60G53					

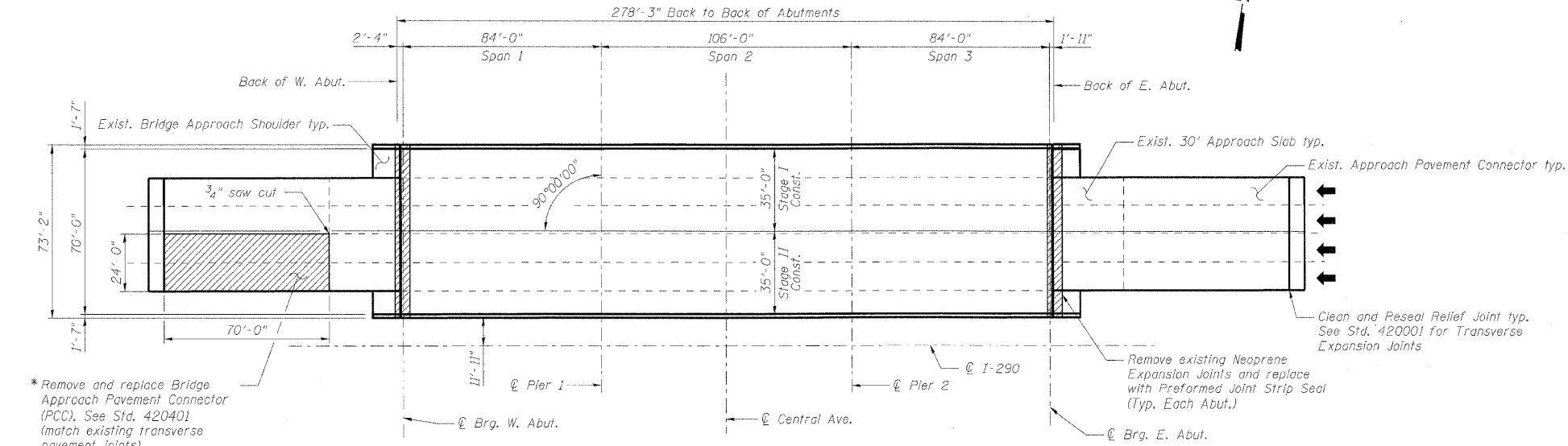
BAR SPLICER ASSEMBLY DETAILS  
STRUCTURE NO. 016-0094

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**Existing Structure:**  
The structure is a three-span continuous, composite plate girder structure with a 7-inch reinforced concrete deck and a 2-inch concrete overlay. The original structure was built in 1957 as FAI Route 1, Section 062-3031.2-MFT. In 1983, the bridge was widened, patched and overlaid and the approach slabs, backwalls and expansion joints were reconstructed. In 1998, the expansion joints were reconstructed and the approach slabs were repaired.

Stage construction shall be utilized to maintain traffic during construction.

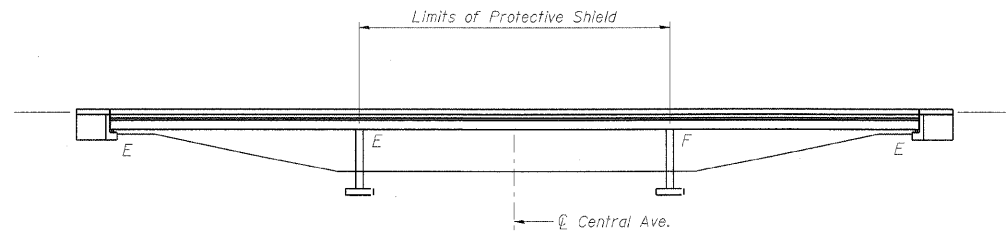
No salvage.



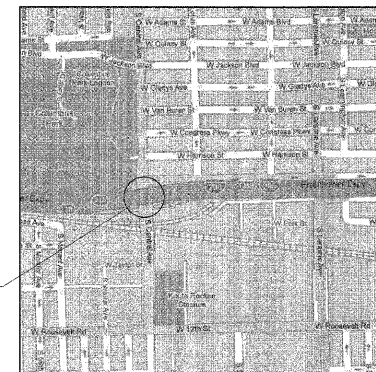
\* Remove and replace Bridge Approach Pavement Connector (PCC). See Std. 420401 (match existing transverse pavement joints)

\* The existing reinforcement bars connecting the existing approach connector to the adjacent section of approach connector and to the 30' approach slab are to remain. Existing #5 tie bars are spaced at 2'-6" cts. along the longitudinal construction joint. The existing bottom longitudinal bars extending from the approach slab into the connector pavement are #5 bars at 12" cts. and extend 3'-0" into the connector pavement. The top bars are #4 bars at 7" cts. and can be cut off 3'-0" into the proposed connector pavement. Cost included in Bridge Approach Pavement Removal.

**PLAN**



**ELEVATION**



**LOCATION SKETCH**

**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 deck.
2. Repair approach slab.
3. Reconstruct deck joints at each abutment with preformed joint strip seal.
4. Replace inside two lanes of west bridge approach pavement connector.
5. Clean and reseal relief joints at the ends of approach pavement connectors.
6. Apply concrete sealer to bridge deck, parapets, approach slabs, abutment seats and backwalls.



EXPIRATION DATE: 11/20/10  
DATE: 01/23/10

**GENERAL PLAN AND ELEVATION  
I-290 WB OVER CENTRAL AVENUE  
COOK COUNTY  
STATION 889+83  
STRUCTURE NO. 016-0095**

DESIGNED	MFB
CHECKED	KWS
DRAWN	RMG
CHECKED	KWS

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205 North Michigan Avenue, Suite 2400  
Chicago, Illinois 60601  
312-565-0450 Job No. 10050

SHEET NO. 1 8 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	290	(2727, ETC., 3131)RS-7	COOK	216	167
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		
		CONTRACT NO. 60G53			

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES**

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.  
As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding 1/4 inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
4. 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.
5. Concrete Sealer shall be applied to the bridge deck, 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.
6. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
7. Stage construction shall be utilized to maintain traffic during construction.
8. 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.
9. Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.

**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 Expansion Joint Repairs
- 6 Expansion Joint Details
- 7 Preformed Joint Strip Seal
- 8 Bar Splicer Assembly Details

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Bridge Approach Pavement Connector (PCC)	Sq. Yd.	187		187
Pavement Reinforcement II 1/4"	Sq. Yd.	187		187
Concrete Removal	Cu. Yd.	23.5		23.5
Protective Shield	Sq. Yd.	181		181
Concrete Superstructure	Cu. Yd.	23.5		23.5
Reinforcement Bars, Epoxy Coated	Pound	2,430		2,430
Bar Splicers	Each	22		22
Preformed Joint Strip Seal	Foot	144.0		144.0
Concrete Sealer	Sq. Ft.	24,536	790	25,326
Bridge Approach Pavement Removal	Sq. Yd.	187		187
Approach Slab Repair (Partial Depth)	Sq. Yd.	21.8		21.8
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	5.0		5.0
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	23.3		23.3
Deck Slab Repair (Partial)	Sq. Yd.	140.0		140.0
Cleaning and Painting Exposed Rebar (Special)	Sq. Ft.	67		67
Clean and Reseal Relief Joint	Foot	72.0		72.0

DESIGNED -	MFB
CHECKED -	KWS
DRAWN -	VH
CHECKED -	KWS

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Chicago, Illinois 60601  
312-565-0450 Job No. 10060

SHEET NO. 2	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	290	(2727, ETC., 3131)RS-7	COOK	216	168
8 SHEETS	CONTRACT NO. 60G53				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

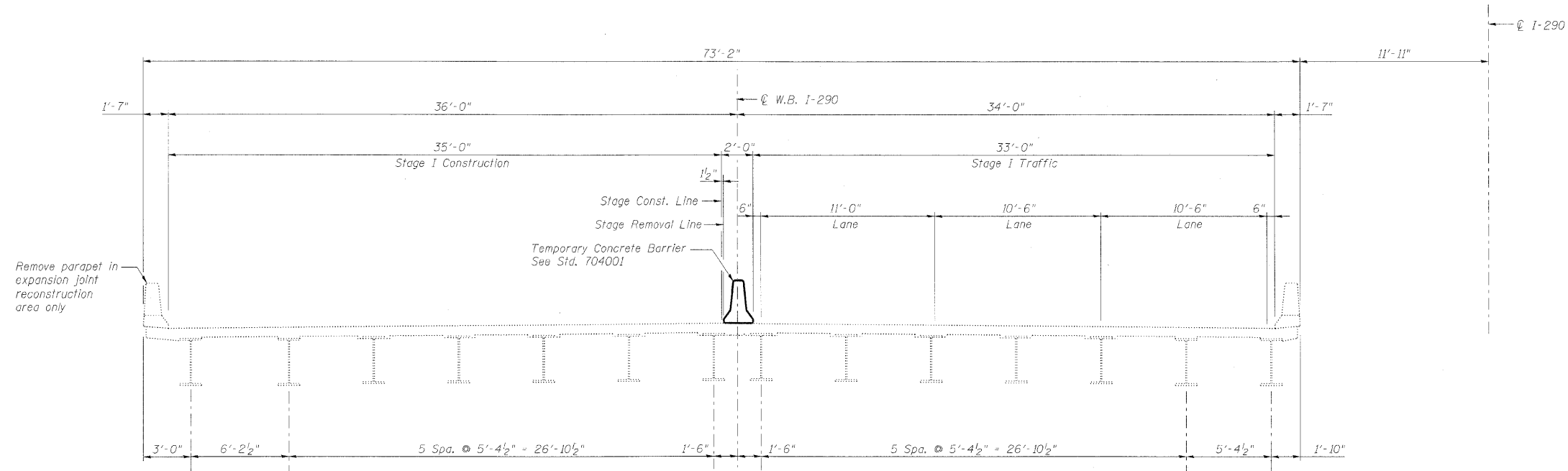
**GENERAL NOTES, BILL OF MATERIAL  
AND INDEX OF SHEETS  
STRUCTURE NO. 016-0095**

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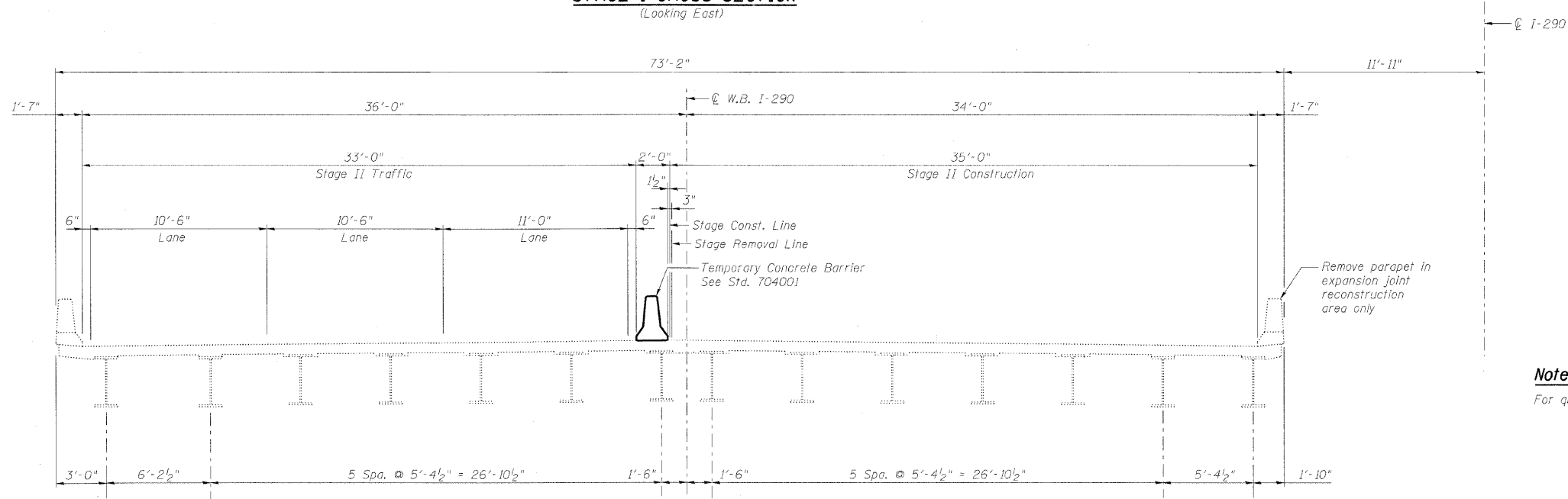
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



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



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

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

DESIGNED	MFB
CHECKED	KWS
DRAWN	VH
CHECKED	KWS

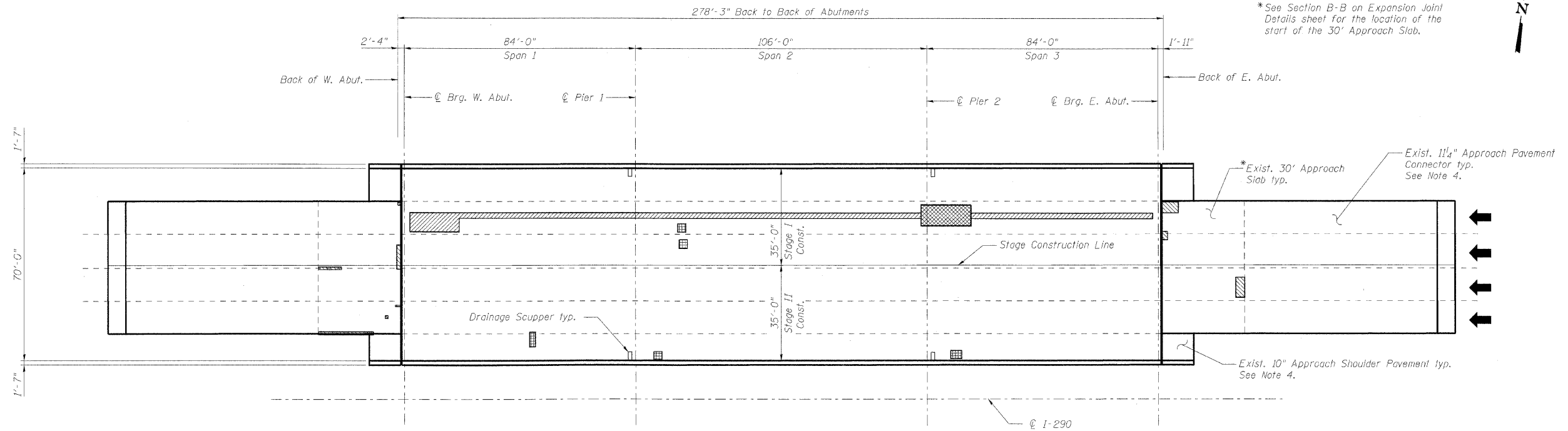
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 Chicago, Illinois 60601  
 312-565-0450 Job No. 10050

SHEET NO. 3 8 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	290	(2727, ETC., 3131)RS-7	COOK	216	169
			CONTRACT NO. 60G53		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

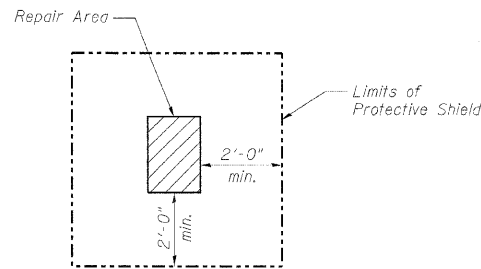


PLAN

BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
	Deck Slab Repair (Partial)	Sq. Yd.	140.0
	Deck Slab Repair (Full Depth - Type I)	Sq. Yd.	5.0**
	Deck Slab Repair (Full Depth - Type II)	Sq. Yd.	23.3
	Cleaning & Painting Exposed Rebar (Special)	Sq. Ft.	67
	Approach Slab Repair (Partial Depth)	Sq. Yd.	21.8
	Protective Shield	Sq. Yd.	181

\*\* The quantity shown is provided as a contingency in the event the Resident Engineer determines that deck repair is required.



PROTECTIVE SHIELD DETAIL

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.
- Protective Shield required for deck slab and/or parapet repairs shall be installed according to Article 501.03 of the Standard Specifications. For limits of Protective Shield, see Protective Shield Detail on this sheet and Elevation on General Plan and Elevation.
- 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 Engineer shall determine the type and quantity of Class A patching and the quantity of Mixture for Cracks, Joints and Flangeways. Estimated quantities are included in the overall Summary of Quantities in Roadway Plans.

DESIGNED	MFB
CHECKED	KWS
DRAWN	RMG
CHECKED	KWS

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312-565-0450 Job No. 10060

SHEET NO. 4 8 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	290	(2727, ETC., 3131)RS-7	COOK	216	170
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 60G53		

BRIDGE DECK  
AND APPROACH SLAB REPAIRS  
STRUCTURE NO. 016-0095

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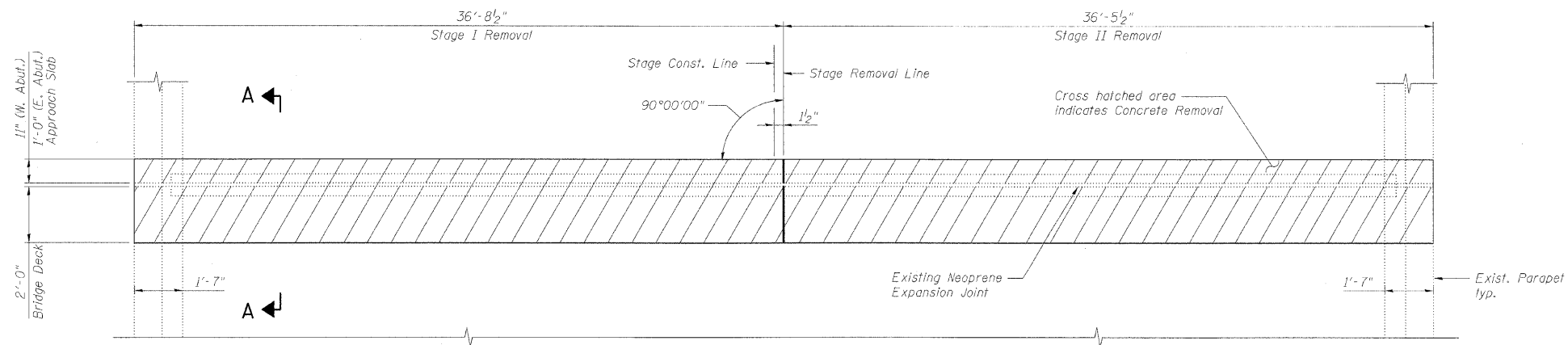
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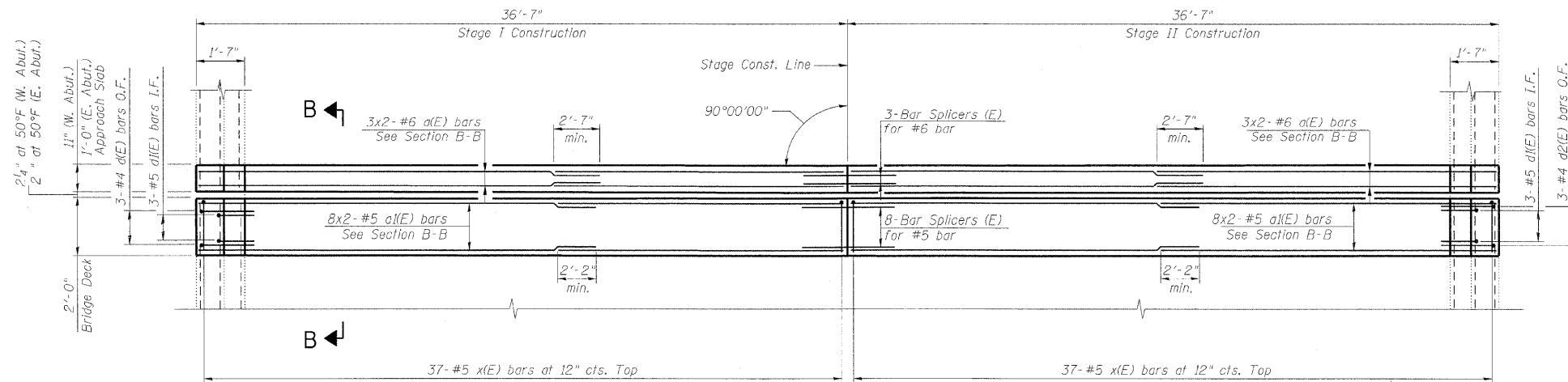
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BILL OF MATERIAL

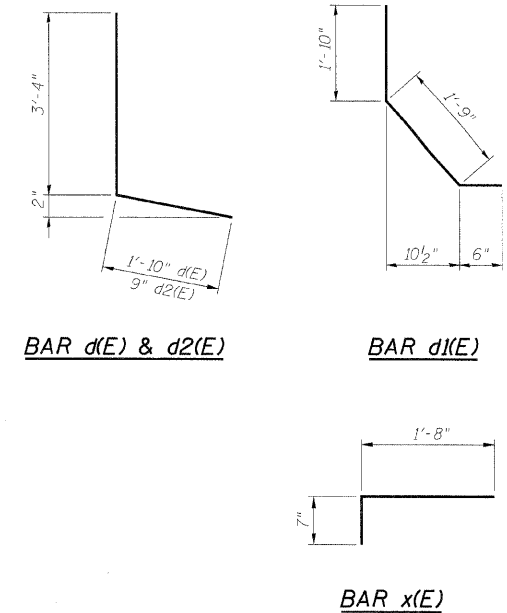
Bar	No.	Size	Length	Shape
d(E)	24	#6	19'-6"	—
a1(E)	64	#5	19'-3"	—
d(E)	6	#4	5'-2"	└
d1(E)	12	#5	4'-1"	└
d2(E)	6	#4	4'-1"	└
x(E)	148	#5	2'-3"	└
Item	Unit	Total		
Concrete Removal	Cu. Yd.	23.5		
Concrete Superstructure	Cu. Yd.	23.5		
Reinforcement Bars, Epoxy Coated	Pound	2,430		



**EXISTING PARTIAL PLAN AT EAST ABUTMENT**  
(Opposite Hand for West Abutment)



**PROPOSED PARTIAL PLAN AT EAST ABUTMENT**  
(Opposite Hand for West Abutment)



**Notes:**

1. Bars indicated thus Bx2-#5 etc. Indicates 8 lines of bars with 2 lengths per line.
2. I.F. denotes Inside Face.  
O.F. denotes Outside Face.
3. Work this sheet with Expansion Joint Details sheet and Bar Splicer Assembly Details sheet.

DESIGNED -	MFB
CHECKED -	KWS
DRAWN -	VH
CHECKED -	KWS

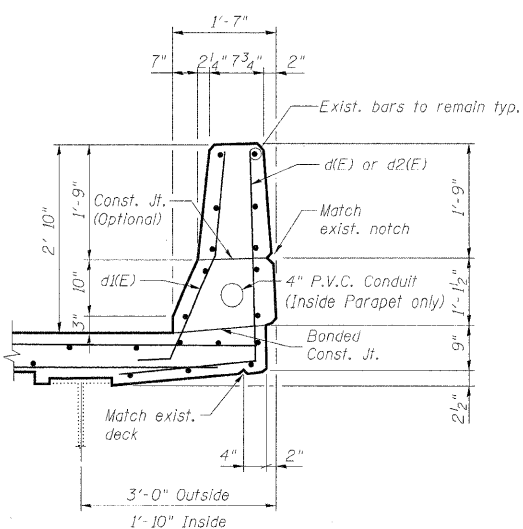
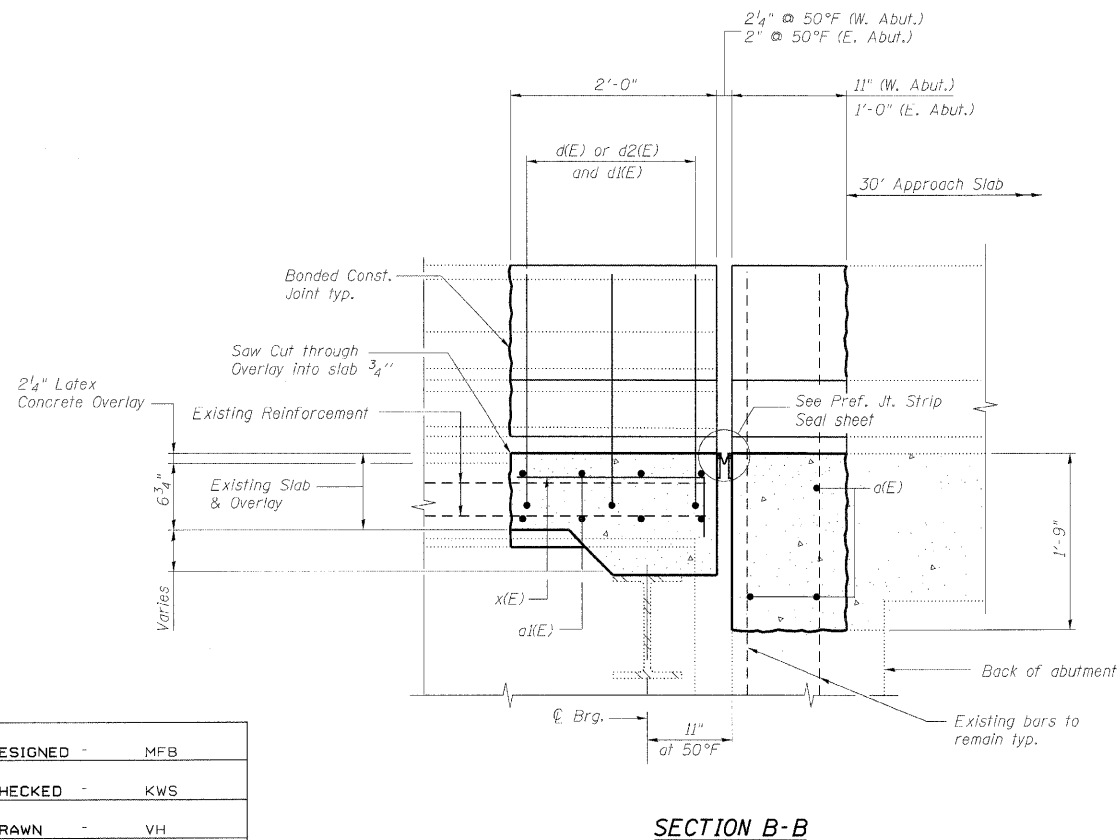
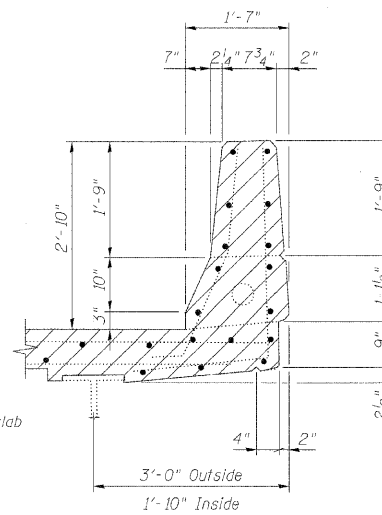
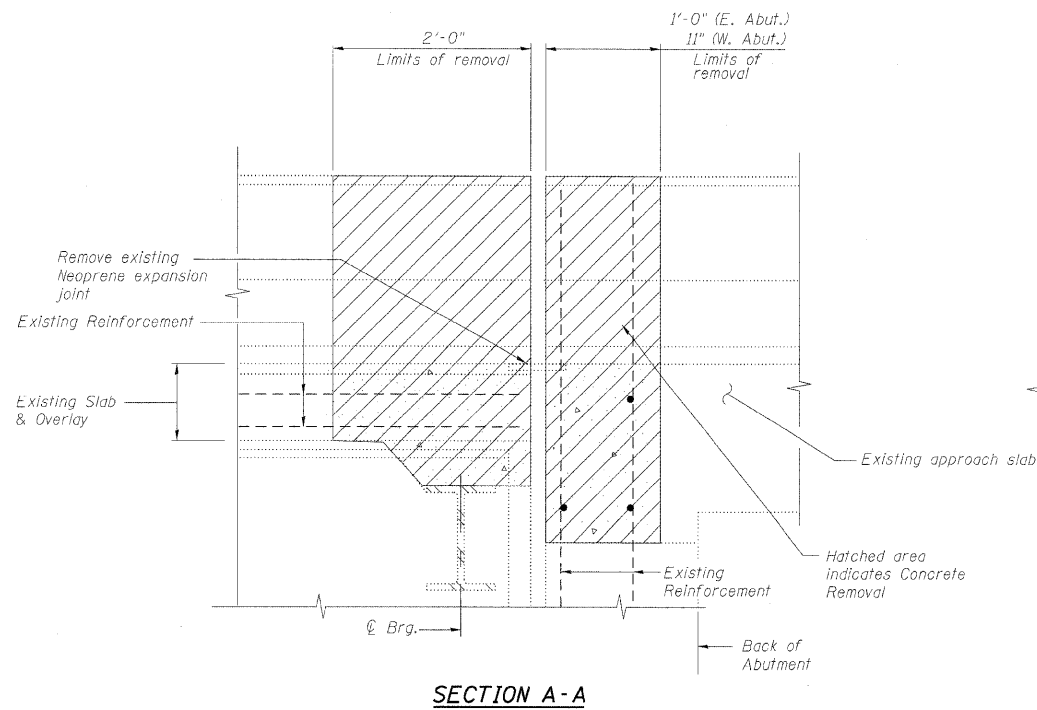
**benesch**

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205 North Michigan Avenue, Suite 2400  
Chicago, Illinois 60601  
312-565-0450 Job No. 10050

SHEET NO. 5 8 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	290	(2727, ETC., 3131)RS-7	COOK	216	171
			CONTRACT NO. 60G53		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

**EXPANSION JOINT REPAIRS**  
**STRUCTURE NO. 016-0095**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**Notes:**

- Existing reinforcement bars extending into the concrete removal area shall be blast-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 Concrete Removal.
- Existing reinforcement bars in the concrete removal area parallel to the expansion joints shall be removed.
- Removal and disposal of the existing expansion joints will not be paid for separately, but shall be included with the cost of Concrete Removal.
- If existing name plate falls within the limits of Concrete Removal, it shall be removed and reinstalled in its original location in accordance with IDOT Std. 515001. Cost included with Concrete Superstructure.
- If existing guardrail and/or end shoe falls within the limits of Concrete Removal, they shall be removed and reinstalled in its original location in accordance with District 1 Std. BM-21. Cost included with Concrete Superstructure.
- The Contractor shall exercise extreme care with the existing conduits in sections of the parapet to be removed and shall protect and support the conduit. The Contractor will be required to repair any damage done to the conduit to the satisfaction of the Engineer at no additional cost to the Department. 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.
- Work this sheet with Expansion Joint Repairs sheet.

DESIGNED -	MFB
CHECKED -	KWS
DRAWN -	VH
CHECKED -	KWS

SECTION B-B

PROPOSED PARAPET SECTION

**EXPANSION JOINT DETAILS  
STRUCTURE NO. 016-0095**

**benesch**

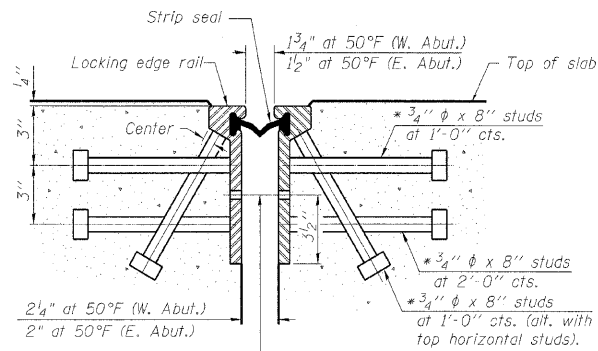
alfred benesch & company  
Engineers • Surveyors • Planners  
205 North Michigan Avenue, Suite 2400  
Chicago, Illinois 60601  
312-565-0450 Job No. 10050

SHEET NO. 6 8 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	290	(2727, ETC., 3131)RS-7	COOK	216	172
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 60G53					



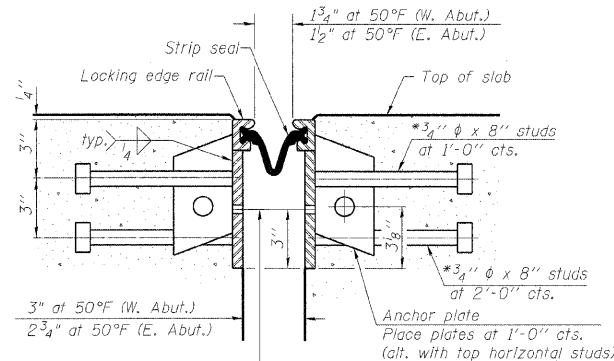
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



$\frac{7}{16}$ "  $\phi$  holes at 4'-0" cts. for  $\frac{3}{8}$ "  $\phi$  bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

SECTION THRU  
ROLLED RAIL JOINT

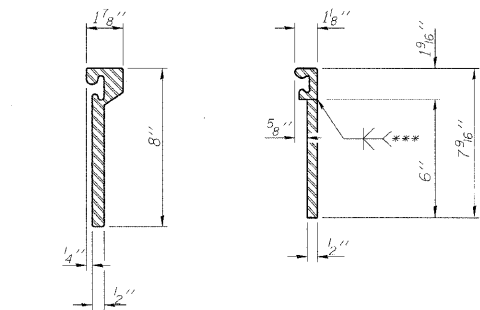


$\frac{7}{16}$ "  $\phi$  holes at 4'-0" cts. for  $\frac{3}{8}$ "  $\phi$  bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

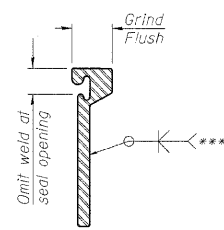
SECTION THRU  
WELDED RAIL JOINT

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of  $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches. The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints. The manufacturer's recommended installation methods shall be followed. The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State. All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.



ROLLED  
EXTRUDED RAIL      WELDED RAIL

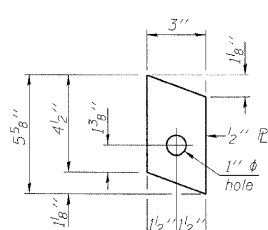


\*\*\*Back gauge not required if complete joint penetration is verified by mock-up.

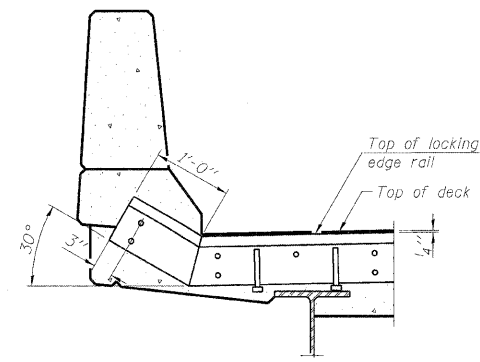
LOCKING EDGE  
RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.

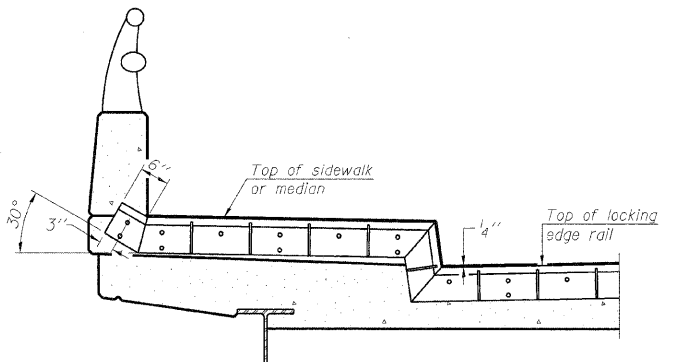
LOCKING EDGE RAILS



ANCHOR PLATE  
(for welded rail)



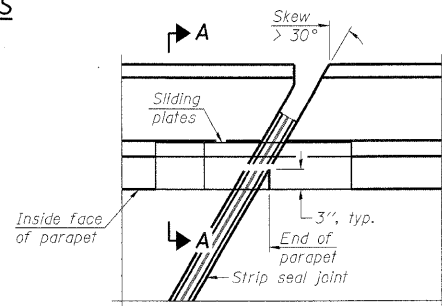
AT PARAPET



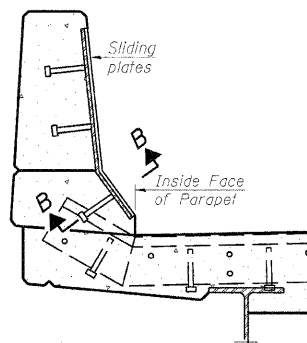
AT SIDEWALK OR MEDIAN

Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

TYPICAL END TREATMENTS

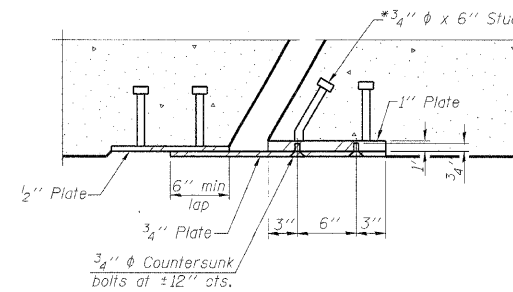


PLAN



SECTION A-A

POINT BLOCK DETAILS  
(for skews > 30°)



SECTION B-B

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	144.0

DESIGNED	MFB
CHECKED	KWS
DRAWN	RMG
CHECKED	KWS

EJ-SSJ

10-1-08

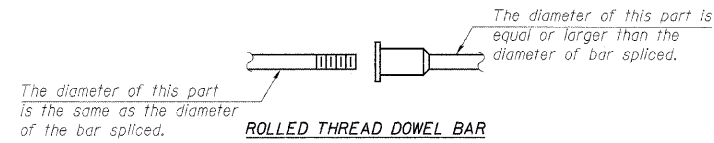
benesch

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205 North Michigan Avenue, Suite 2400  
Chicago, Illinois 60601  
312-565-0450 Job No. 10050

SHEET NO. 7	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	290	(2727, ETC., 3131)RS-7	COOK	216	173
8 SHEETS	CONTRACT NO. 60G53				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

PREFORMED JOINT STRIP SEAL  
STRUCTURE NO. 016-0095

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



ROLLED THREAD DOWEL BAR



\*\* ONE PIECE

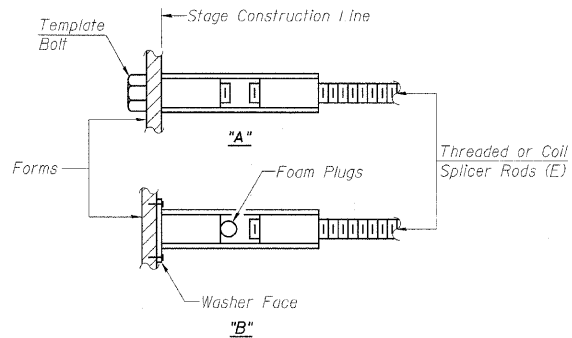
Wire Connector



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

\*\*Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.

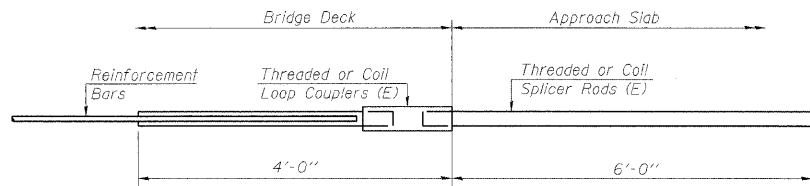


INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt.

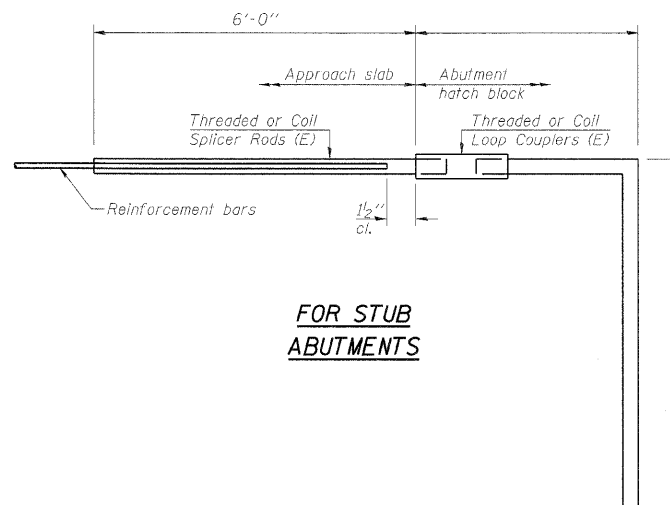
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar	
Min. Capacity =	23.0 kips - tension
Min. Pull-out Strength =	12.3 kips - tension
No. Required =	



FOR STUB ABUTMENTS

Bar Splicer for #5 bar	
Min. Capacity =	23.0 kips - tension
Min. Pull-out Strength =	12.3 kips - tension
No. Required =	

Notes:

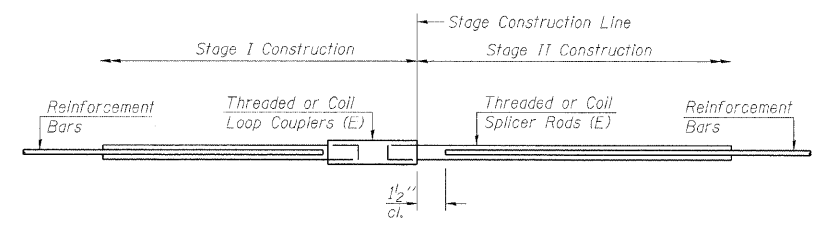
Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.  
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.  
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.  
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity =  $1.25 \times f_y \times A_t$   
(Tension in kips)
- ② Minimum \*Pull-out Strength =  $0.66 \times f_y \times A_t$   
(Tension in kips)

Where  $f_y$  = Yield strength of lapped reinforcement bars in ksi.  
 $A_t$  = Tensile stress area of lapped reinforcement bars.  
\* = 28 day concrete

Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-2"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



STANDARD

Bar Size	No. Assemblies Required	Location
#5	16	Deck
#6	6	Deck

DESIGNED -	MFB
CHECKED -	KWS
DRAWN -	RMG
CHECKED -	KWS

BSD-1

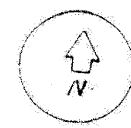
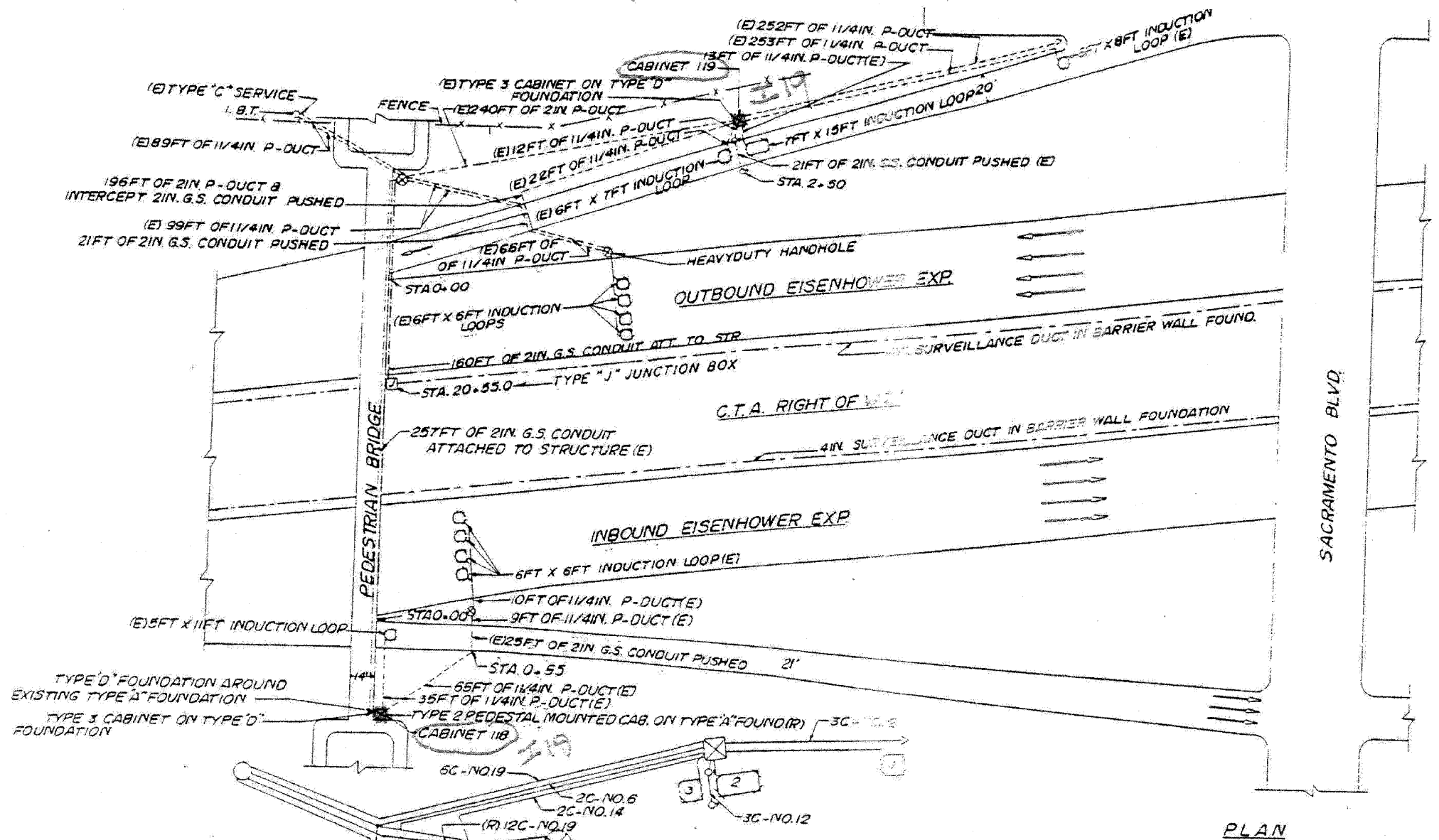
10-1-08

benesch

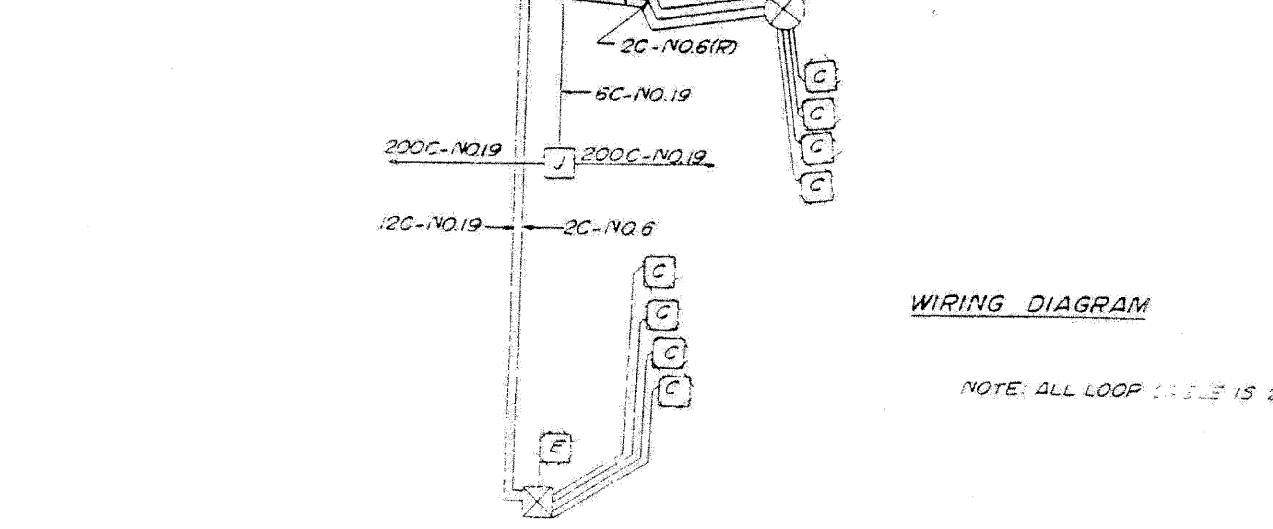
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Chicago, Illinois 60601  
312-665-0450 Job No. 10050

SHEET NO. 8  8 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	290	(2727, ETC., 3131)RS-7	COOK	216	174
	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60G53	

BAR SPLICER ASSEMBLY DETAILS  
STRUCTURE NO. 016-0095



PLAN



WIRING DIAGRAM

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

- LEGEND
- ⊠ CABINET
  - INDUCTION LOOP
  - HANDHOLE
  - ⊙ METERING SIGNAL
  - ⊙ SERVICE INSTALLATION
  - ⊙ FLASHER
  - DUCT
  - CONDUIT
  - (E) EXISTING
  - (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	1862
INDUCTION LOOP	LF	503

FILE NAME =	DESIGNED - GHT	REVISED -
...:\signals\prp\in_abc_c3.ts.12.dgn	DRAWN - DMS	REVISED -
USER NAME = jnojewski	CHECKED - MPV	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

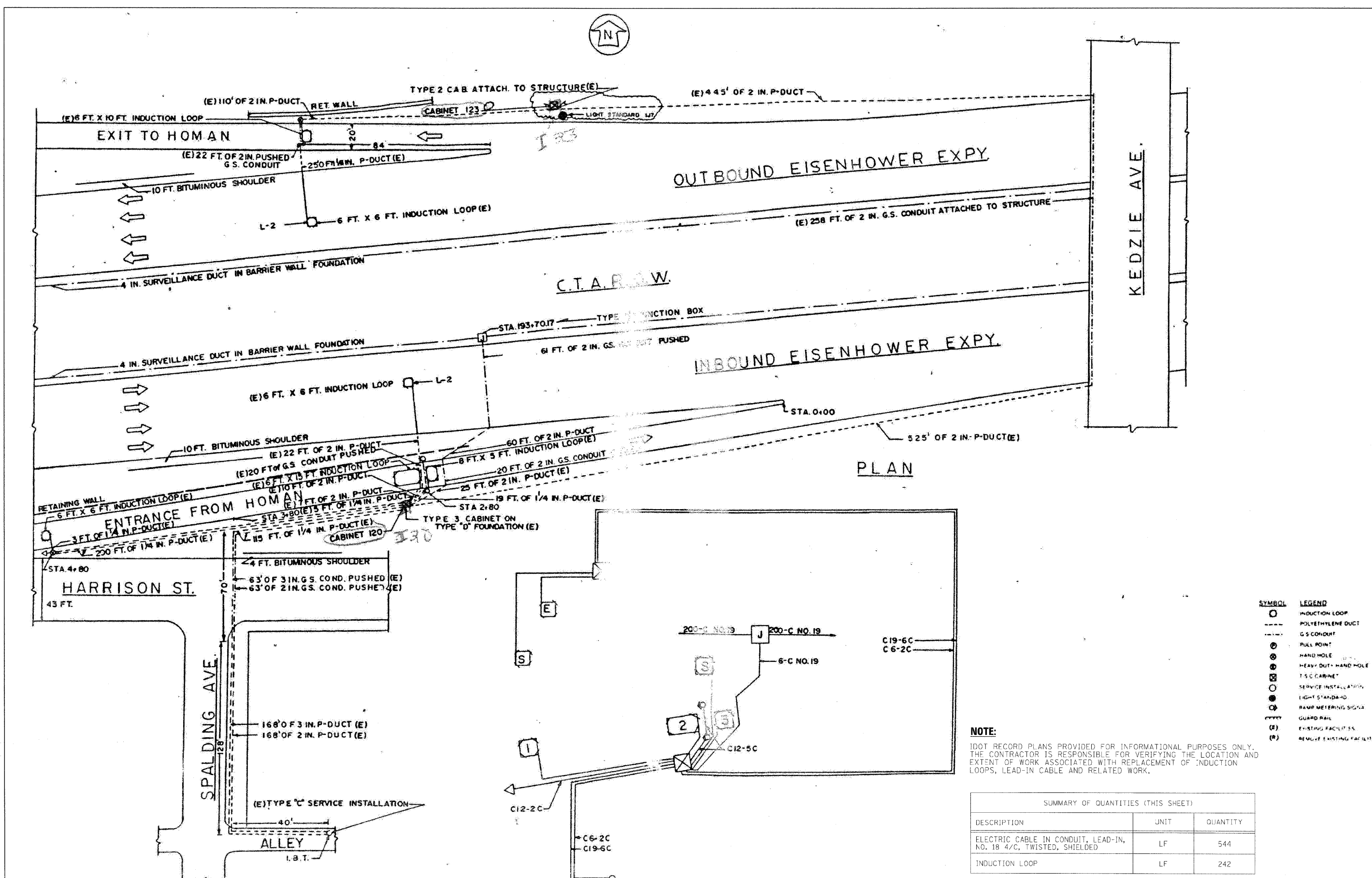
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SURVEILLANCE  
SACRAMENTO BLVD INSTALLATION**

SCALE: N.T.S. SHEET NO. 1 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	175
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60653	



PLAN

SYMBOL	LEGEND
○	INDUCTION LOOP
---	POLYETHYLENE DUCT
---	G.S. CONDUIT
⊙	PULL POINT
⊕	HAND HOLE
⊕	HEAVY DUTY HAND HOLE
⊕	T.S.C. CABINET
⊕	SERVICE INSTALLATION
⊕	LIGHT STANDARD
⊕	RAMP METERING SIGNAL
⊕	GUARD RAIL
(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	544
INDUCTION LOOP	LF	242

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**benesch**

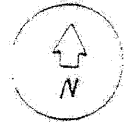
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SURVEILLANCE  
 HOMAN AVE INSTALLATION**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 313)RS-7	COOK	216	176
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

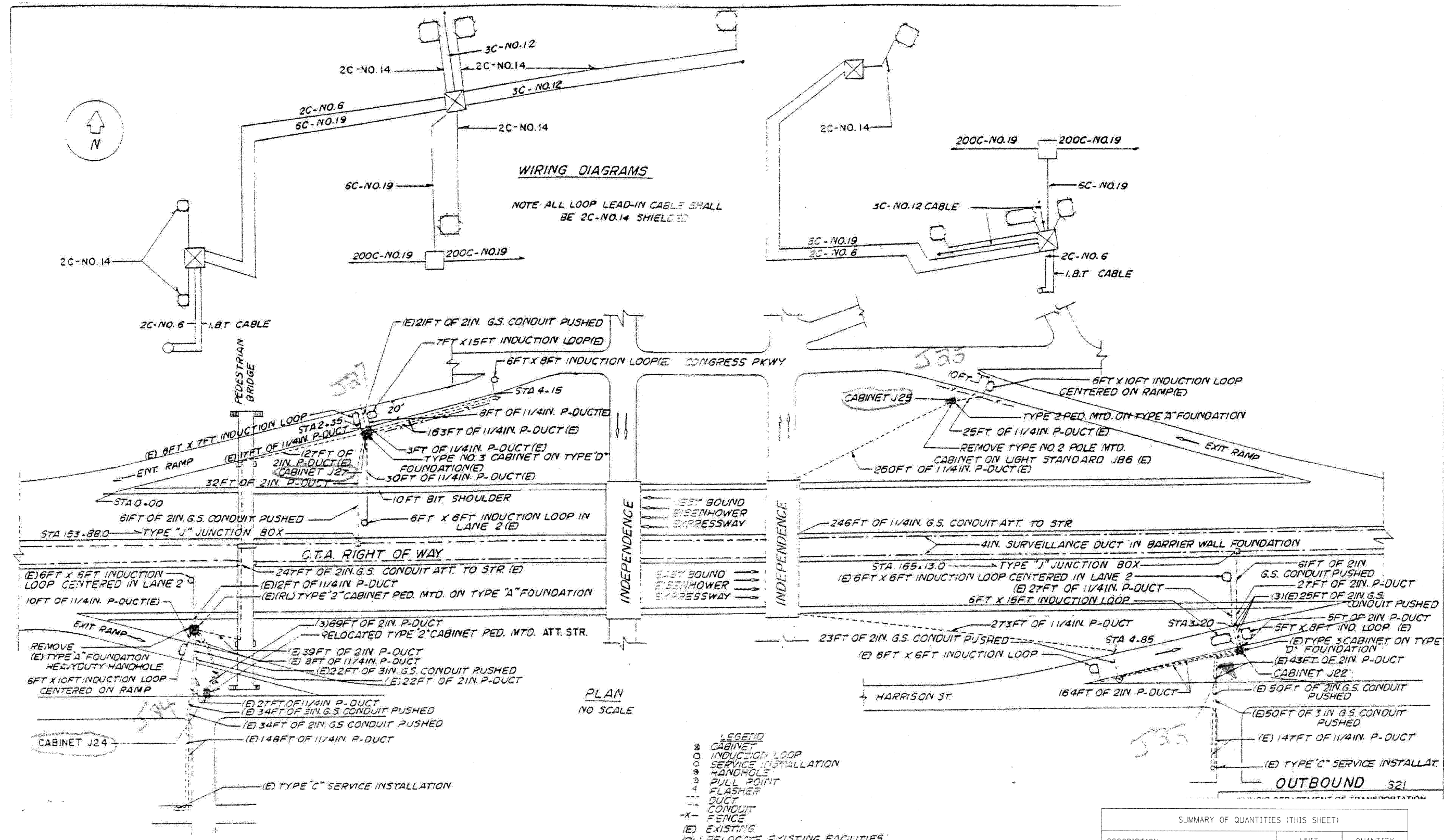
SCALE: N.T.S. SHEET NO. 2 OF 7 SHEETS STA. TO STA.

CONTRACT NO. 60653



**WIRING DIAGRAMS**

NOTE: ALL LOOP LEAD-IN CABLE SHALL BE 2C-NO.14 SHIELDED



PLAN  
NO SCALE

- LEGEND**
- CABINET
  - INDUCTION LOOP
  - SERVICE INSTALLATION
  - HANDHOLE
  - PULL POINT
  - FLASHER
  - DUCT
  - CONDUIT
  - X- FENCE
  - (E) EXISTING
  - (RL) RELOCATE 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	332
INDUCTION LOOP	LF	449

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

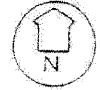
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

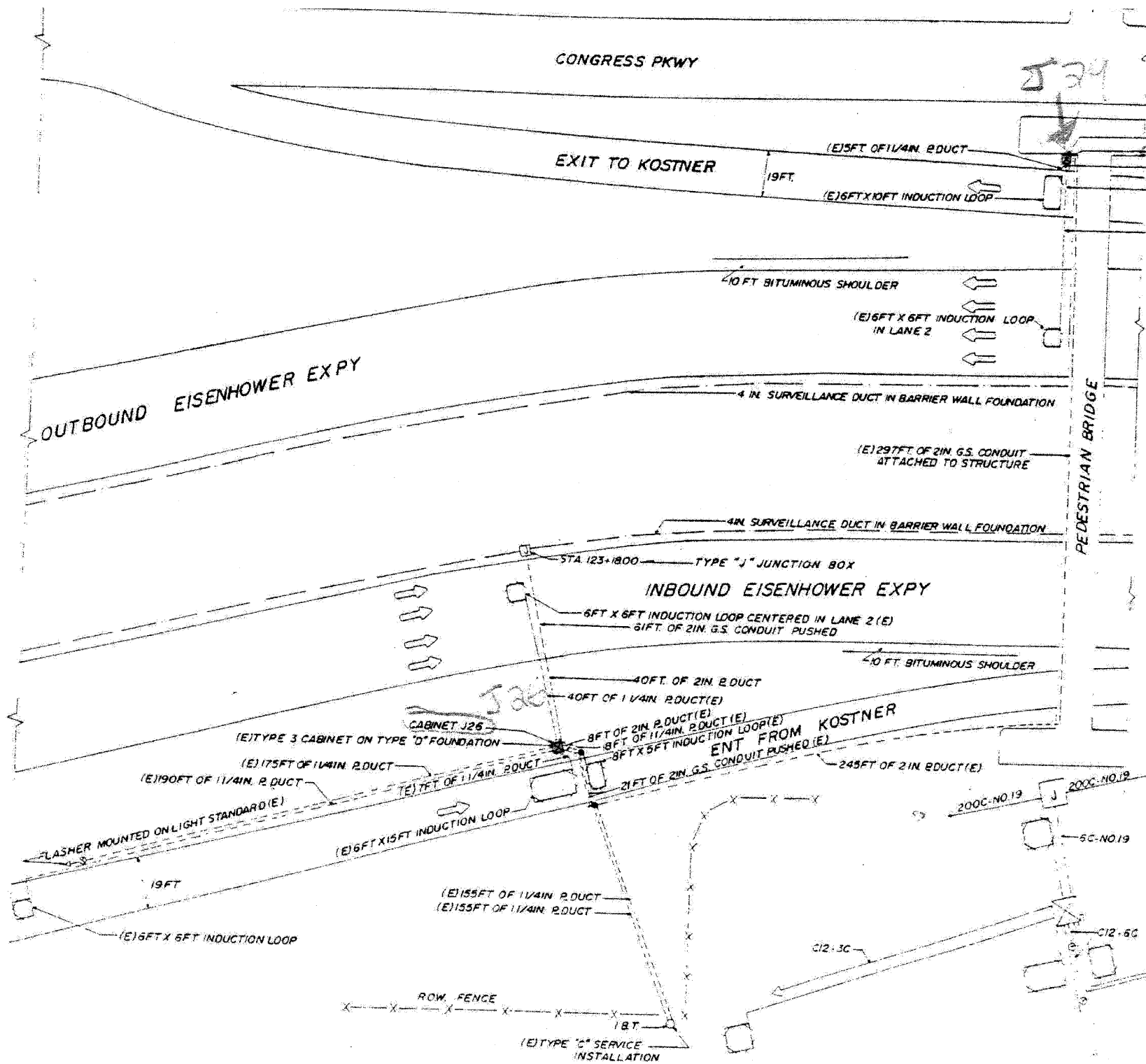
**TRAFFIC SURVEILLANCE  
INDEPENDENCE BLVD INSTALLATION**

SCALE: N.T.S. SHEET NO. 3 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	177
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60053	



KOSTNER AVENUE



PLAN

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.

**NOTES**

ALL LOOP CABLE IS C14-2C.

INBOUND S22

- LEGEND**
- INDUCTION LOOP
  - DUCT
  - CONDUIT
  - ⊙ PULL POINT
  - ⊙ HANDHOLE
  - ⊕ HEAVY DUTY HANDHOLE
  - ⊠ CABINET
  - SERVICE INSTALLATION
  - LIGHT STANDARD
  - PUMP METERING INSTALLATION
  - GUARD RAIL
  - (E) EXISTING
  - (R) REMOVE EXISTING

SUMMARY OF QUANTITIES (THIS SHEET)		
DESCRIPTION	UNIT	QUANTITY
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 4/C, TWISTED, SHIELDED	LF	304
INDUCTION LOOP	LF	270

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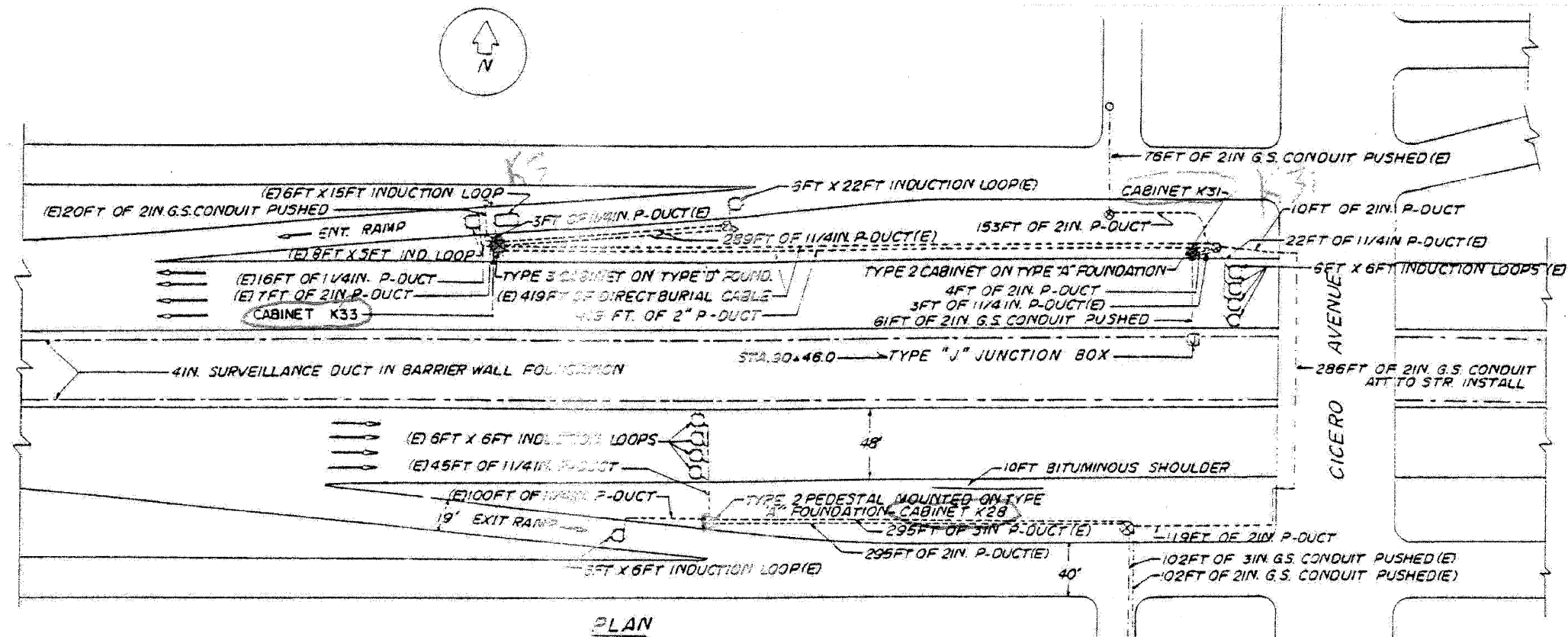
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

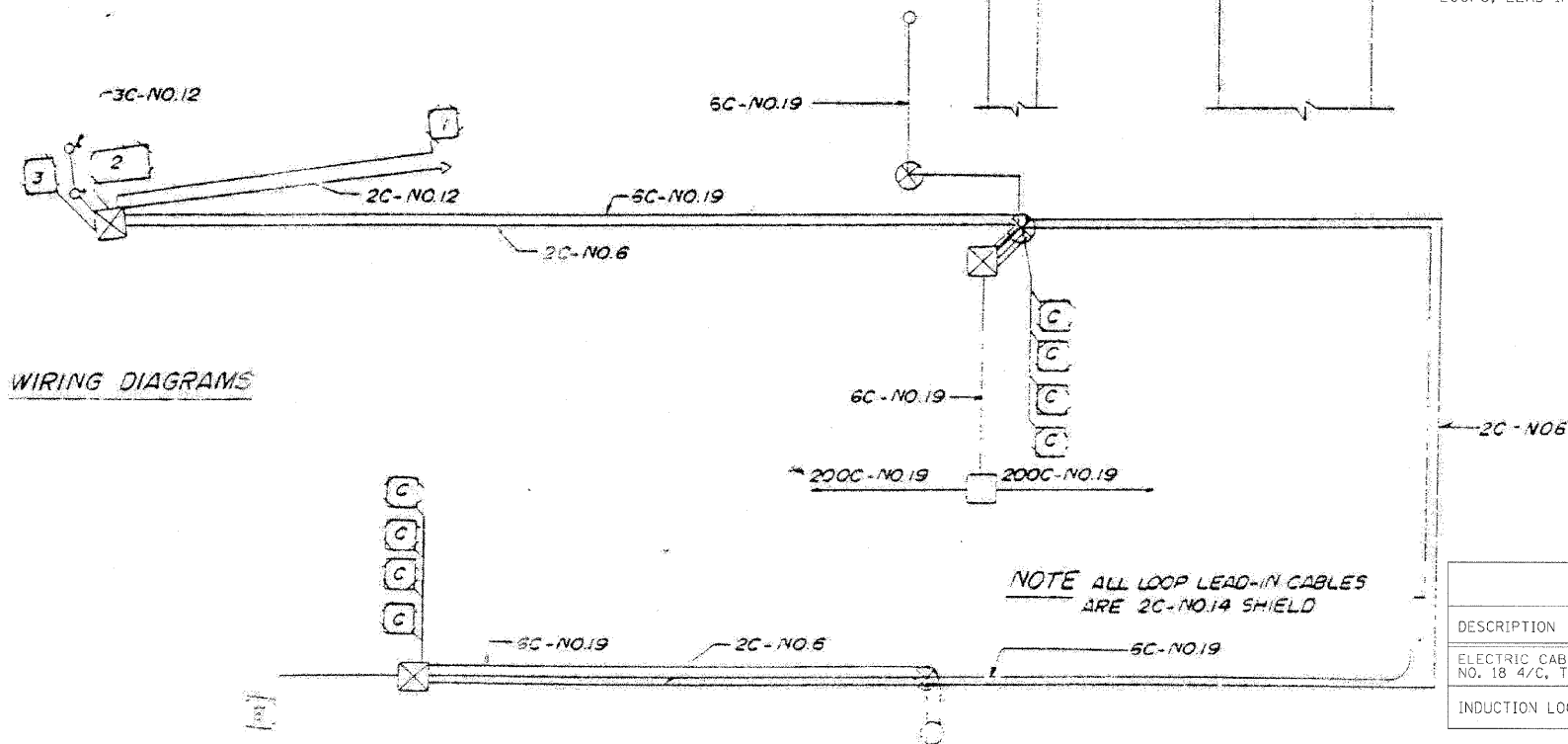
**TRAFFIC SURVEILLANCE  
KOSTNER AVE INSTALLATION**

SCALE: N.T.S. SHEET NO. 4 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	178
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60G53	



PLAN



WIRING DIAGRAMS

**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.

**LEGEND**

- 3 CABINET
- 0 INDUCTION LOOP
- 0 HANDHOLE
- 0 SERVICE INSTALLATION
- 0 METERING SIGNAL
- 0 FLASHER
- DUCT
- CONDUIT
- DIRECT BURIAL CABLE
- (E) EXISTING
- (R) REMOVE EXISTING FACILITIES
- (A) ABANDON FACILITIES

OUTBOUND S23

SUMMARY OF QUANTITIES (THIS SHEET)		
DESCRIPTION	UNIT	QUANTITY
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 4/C, TWISTED, SHIELDED	LF	676
INDUCTION LOOP	LF	525

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...signals\prp\in_abc_c3_ts_16.dgn	DRAWN - DMS	REVISED -
USER NAME = jmajewski	CHECKED - MPM	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SURVEILLANCE  
CICERO AVE INSTALLATION**

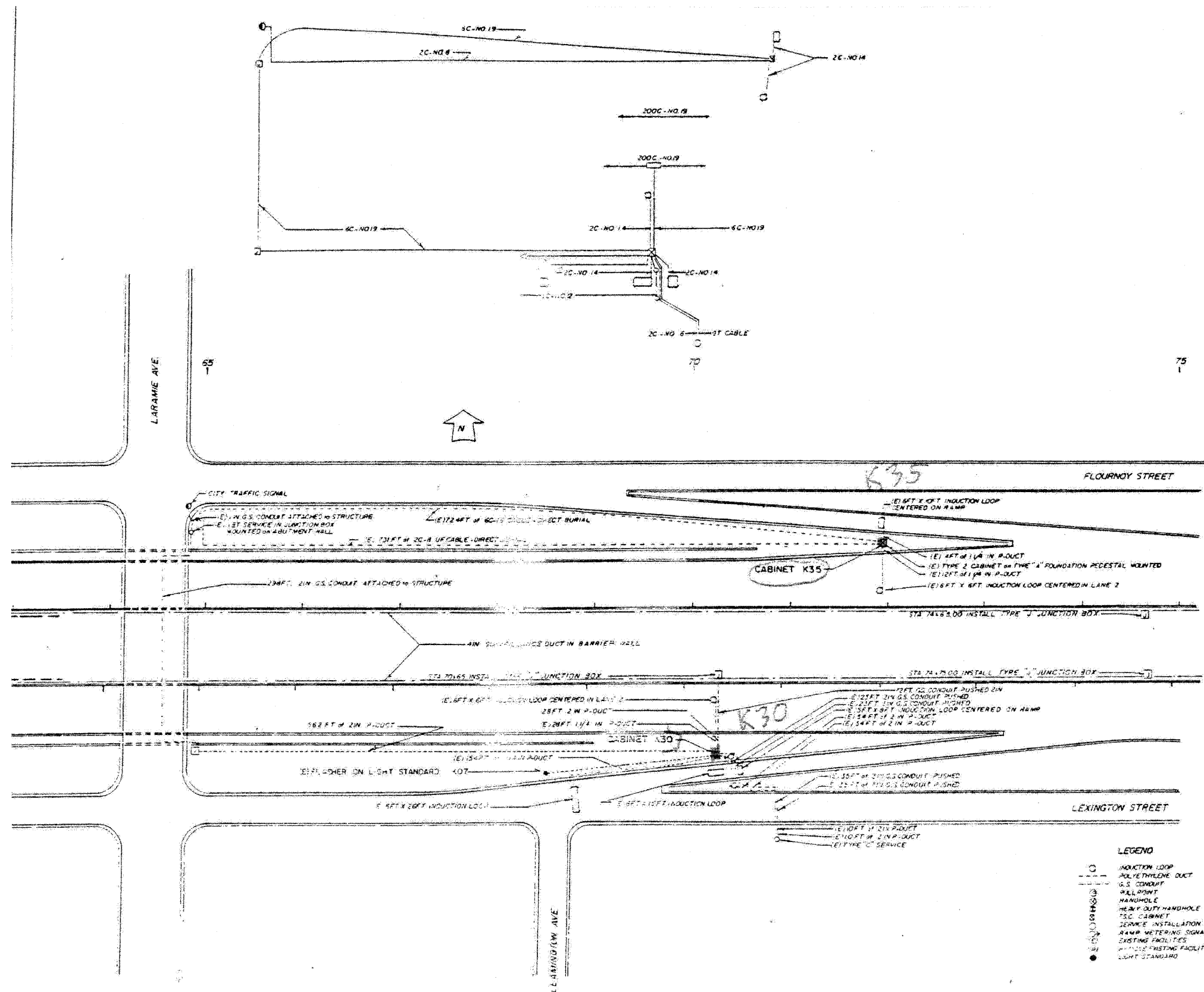
SCALE: N.T.S. SHEET NO. 5 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	179
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60053	

SUMMARY OF QUANTITIES (THIS SHEET)		
DESCRIPTION	UNIT	QUANTITY
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 4/C, TWISTED, SHIELDED	LF	224
INDUCTION LOOP	LF	318

**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.



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

**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

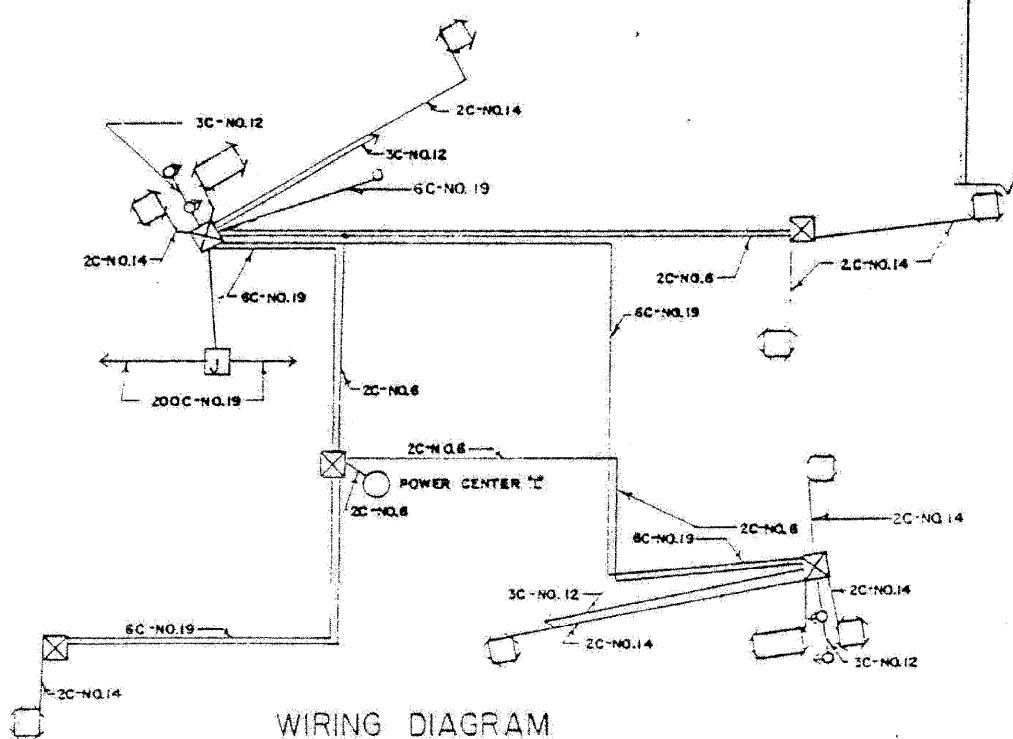
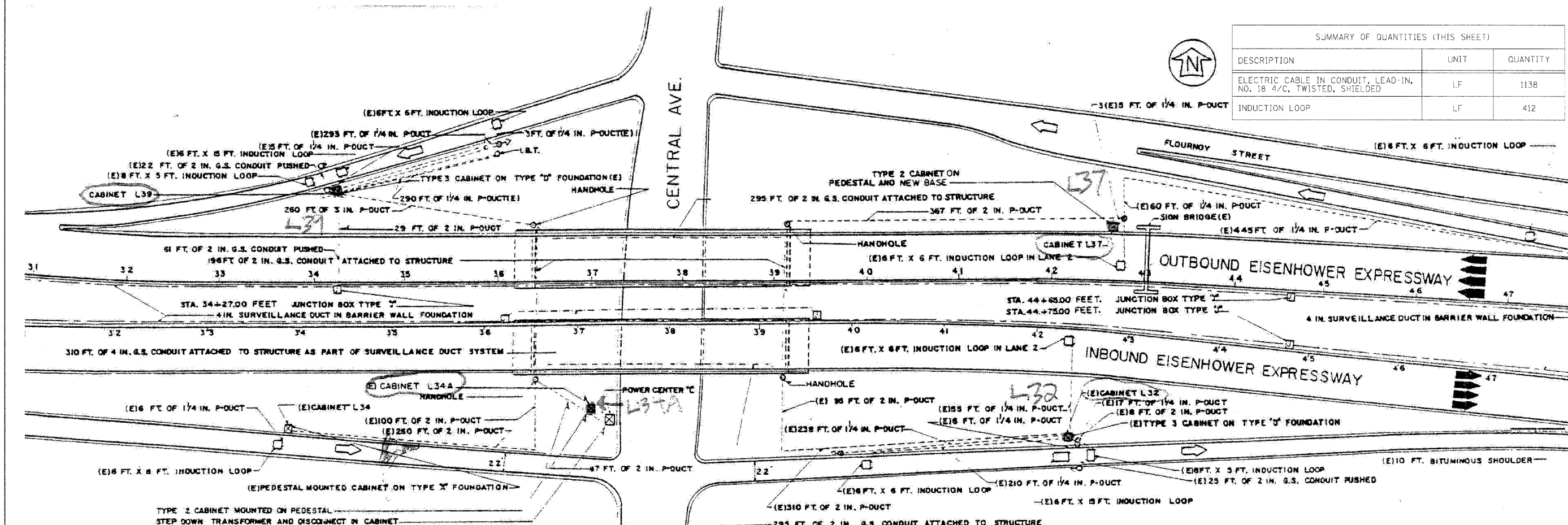
**TRAFFIC SURVEILLANCE  
LARAMIE AVE INSTALLATION**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	180
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

SCALE: N.T.S. SHEET NO. 6 OF 7 SHEETS STA. TO STA.



SUMMARY OF QUANTITIES (THIS SHEET)		
DESCRIPTION	UNIT	QUANTITY
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 4/C, TWISTED, SHIELDED	LF	1138
INDUCTION LOOP	LF	412



X0-30	XF-10	X0-30	X0-37
540	540	540	540
780	780	780	780
1020	1020	1020	1020
1260	1260	1260	1260
1500	1500	1500	1500
1740	1740	1740	1740
	1980	1980	1980
			2340

**ESTIMATE of QUANTITY**

1	EACH	IND. LOOP DET. SEN. UNIT
1	EACH	DIG. LOOP DET. SEN. UNIT 2
131	LN. FT.	INDUCTION LOOP
25	LN. FT.	POLYETHYLENE DUCT
747	LN. FT.	GALV. CON. AT ST. 2
210	LN. FT.	GALV. CON. AT ST. 1
403	LN. FT.	POLY DUCT 1/4"
442	LN. FT.	POLY DUCT 2"
1147	LN. FT.	EL. CBL. 05 20
279	LN. FT.	EL. CBL. 012 30
1972	LN. FT.	EL. CBL. 019 30
1400	LN. FT.	EL. CBL. 019 200C
294	LN. FT.	EL. CBL. 014 20 SHIELD
1	EACH	SERV. INSTALL. TY. C.
1	EACH	HANDHOLE
218	LN. FT.	TRENCH & BACKFILL
1	EACH	CAB. HANG. EQ. ATT. STR. ESP. 2
218	LN. FT.	THPL. RVT. MK. LINE 8
802	LN. FT.	THPL. RVT. MK. LINE 12
1	EACH	THPL. RVT. MK. LINE 18
1	EACH	STEP-DOWN DRAIN

SYMBOL	LEGEND
[Square with diagonal line]	INDUCTION LOOP
[Dashed line]	POLYETHYLENE DUCT
[Solid line]	G.S. CONDUIT
[Square with 'X']	T.S.C. CABINET
[Circle with dot]	HANDHOLE
[Circle with 'H']	HEAVY DUTY HANDHOLE
[Circle with 'P']	PULL POINT
[Circle with 'S']	SERVICE INSTALLATION
[Circle with 'L']	LIGHT STANDARD
[Circle with 'R']	RAMP METERING SIGNAL
[Circle with 'G']	GUARD RAIL
(E)	EXISTING FACILITIES
(R)	REMOVE EXISTING FACILITIES
(A)	ABANDON FACILITIES

**NOTES**

1. ALL LOOP LEAD-IN CABLE SHALL BE 2C-NQ.14 SHIELDED
2. ALL REPLACED AC. CABLE SHALL BE 2C-NQ.6
3. ALL REPLACED TELEPHONE INTERCONNECT CABLE SHALL BE 6C-NQ.19

**INBOUND**

**NOTE:**  
 IDGT 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.

FILE NAME =	DESIGNED - GHT	REVISED -
...Signal\prp\In_ABC_C3_ts.18.dgn	DRAWN - DMS	REVISED -
USER NAME = jinajewski	CHECKED - MPM	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

**benesch**

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

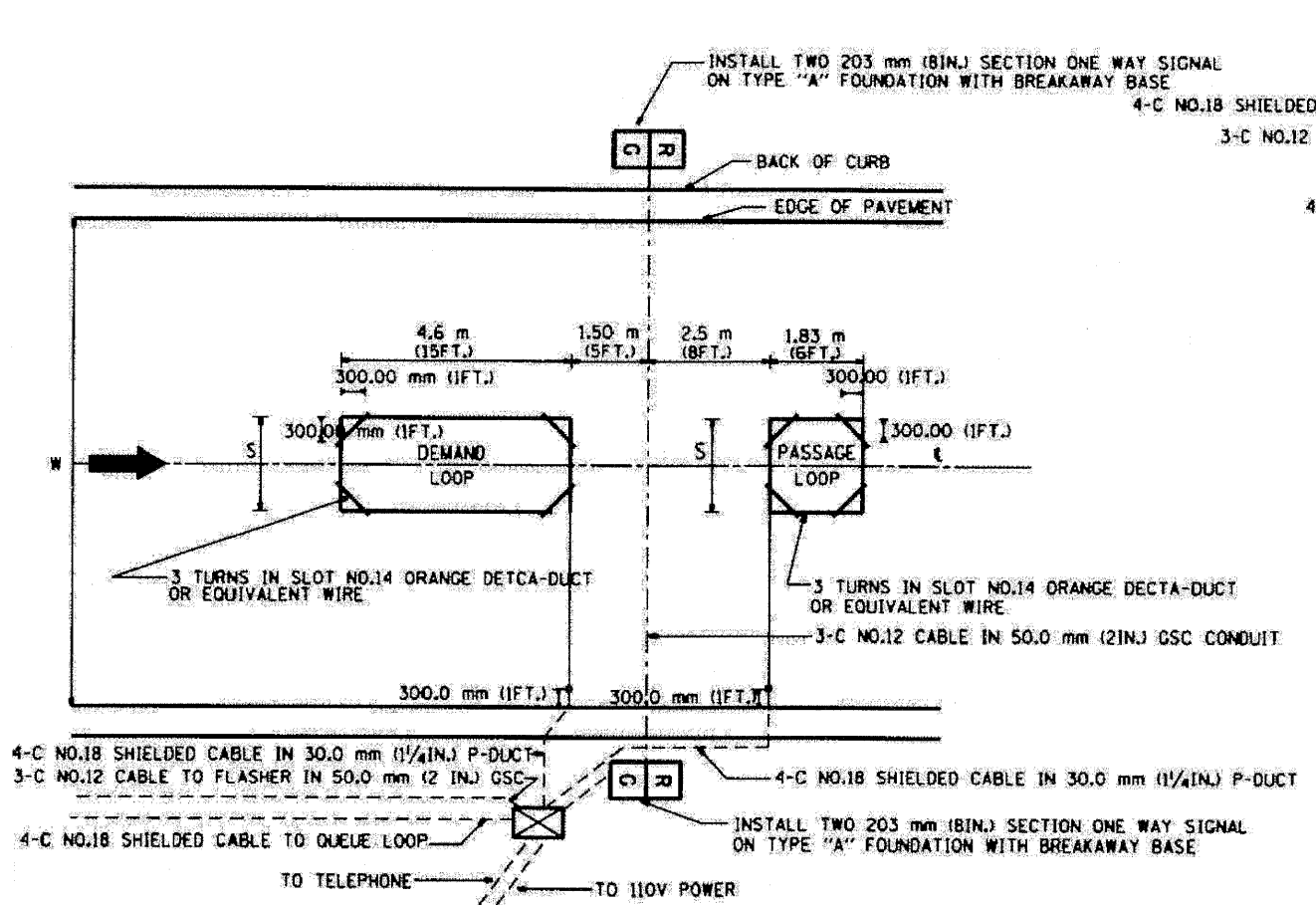
**TRAFFIC SURVEILLANCE  
 CENTRAL AVE INSTALLATION**

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

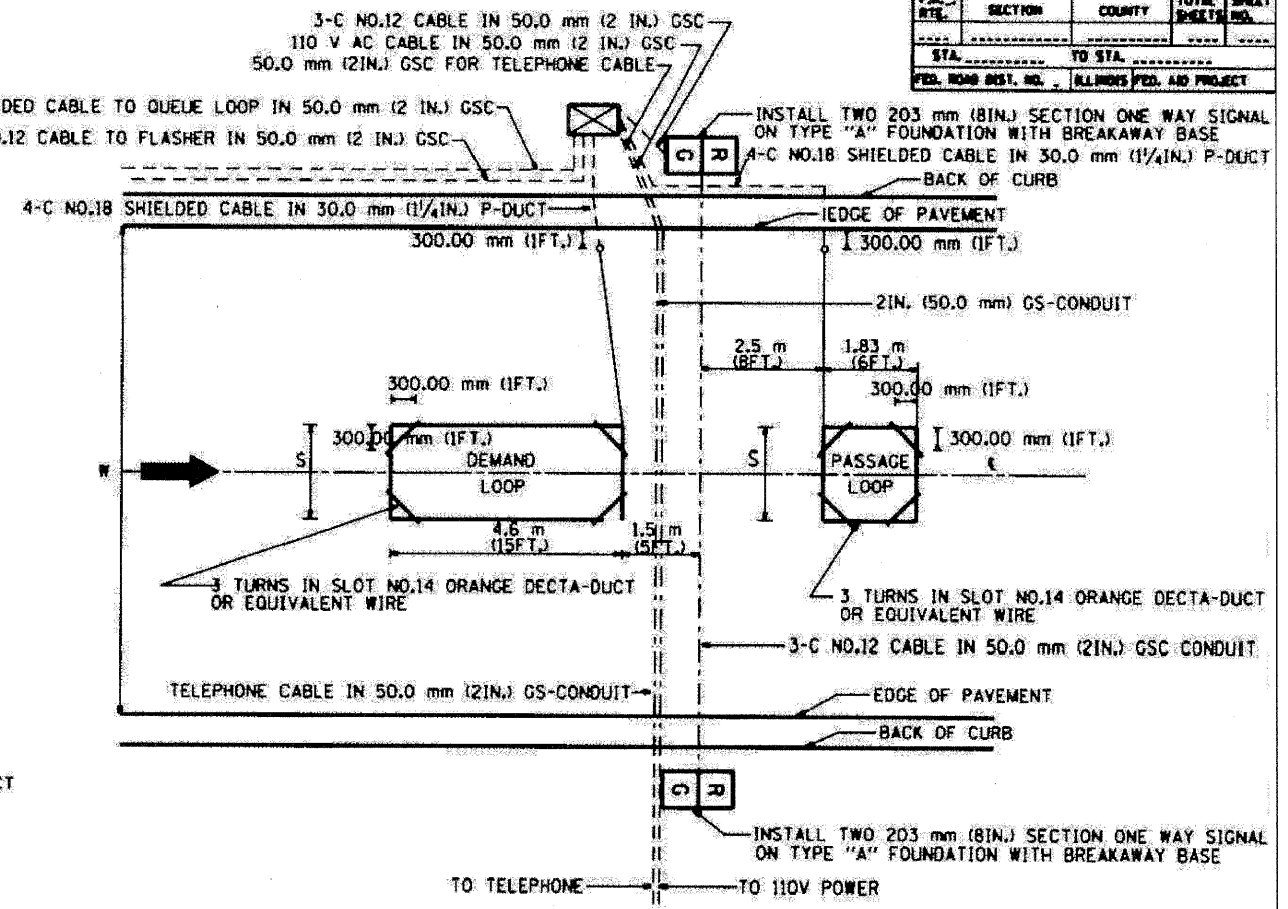
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	181
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60G53	



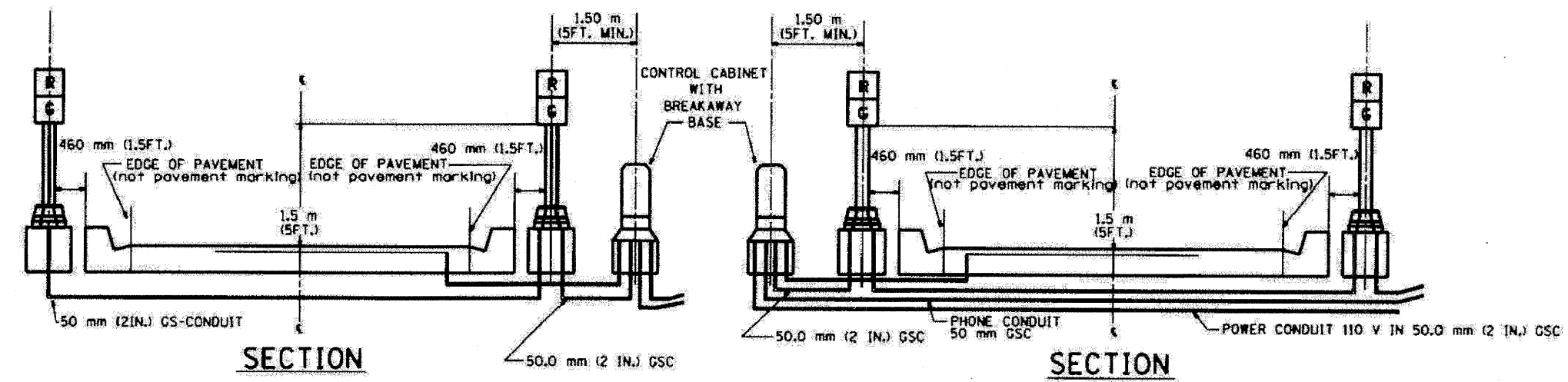
P.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	183



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.

DESIGNED	DATE	<b>ILLINOIS DEPARTMENT OF TRANSPORTATION</b> <b>TRAFFIC SYSTEMS CENTER</b> <b>TYPICAL RAMP METERING</b> <b>INSTALLATION TYPE I &amp; II</b> <b>(WITH CURB &amp; GUTTER)</b>
DRAWN	6/24	
CHECKED	6/28	
DATE	6-22-14	
SCALE: NONE		DRAWN BY: GJM
		CHECKED BY: RL

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

FILE NAME =	DESIGNED - GHT	REVISED -
...prp1n_abc_C3_TS_DET_02.dgn	DRAWN - DMS	REVISED -
USER NAME = jmojewski	CHECKED - MPM	REVISED -
PLOT DATE = 1/25/2018	DATE - 1/25/10	REVISED -

**benesch**

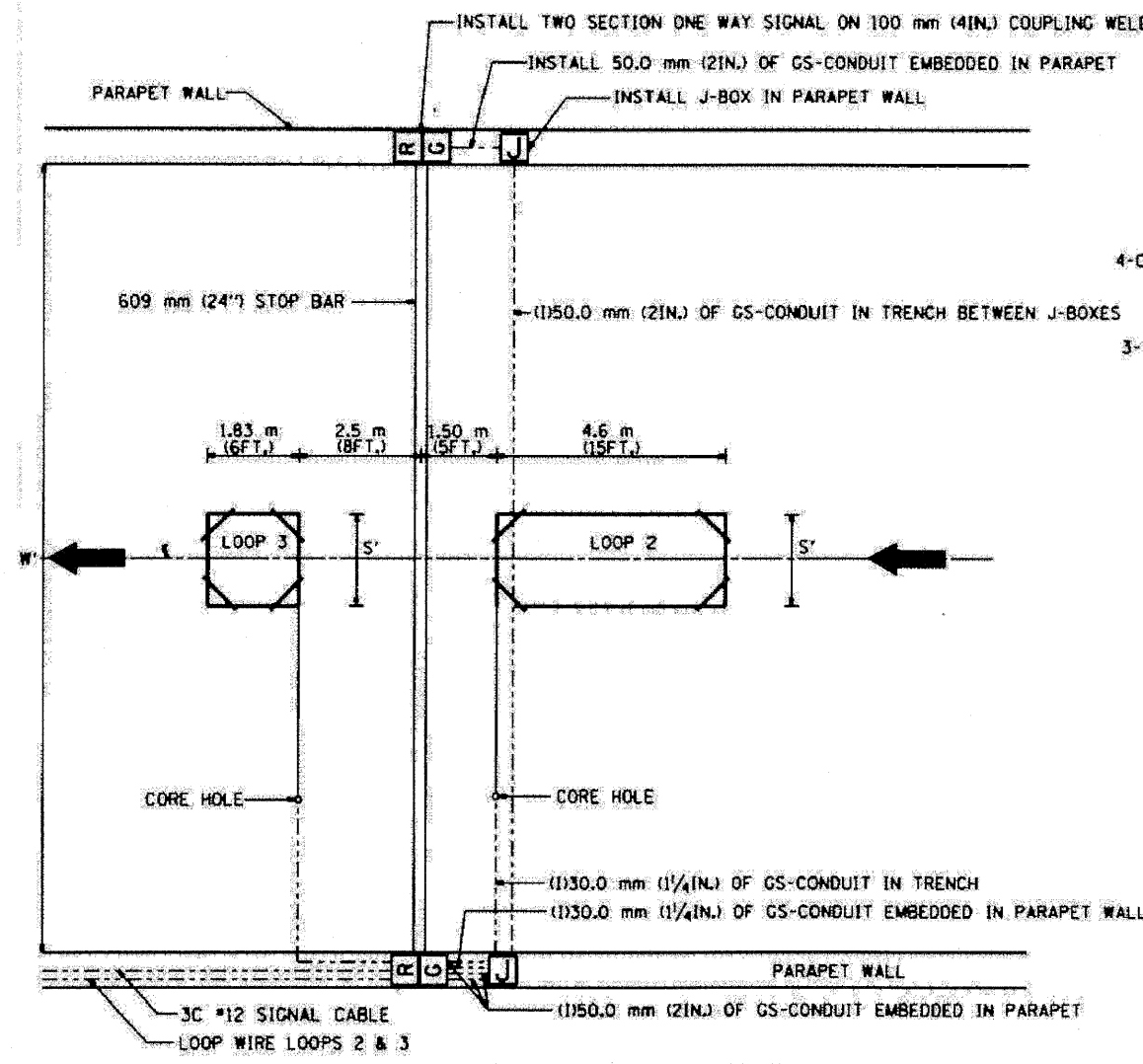
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SYSTEM CENTER**  
**DETAIL SHEETS**

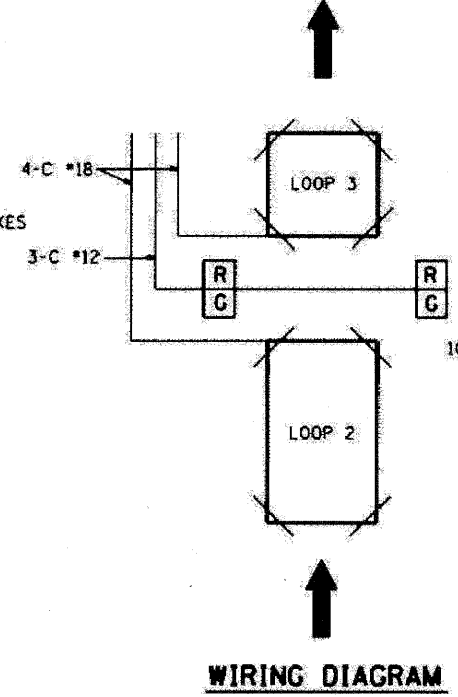
SCALE: N.T.S. SHEET NO. 2 OF 15 SHEETS STA. TO STA.

P.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	183
FED. ROAD DIST. NO.				ILLINOIS FED. AID PROJECT

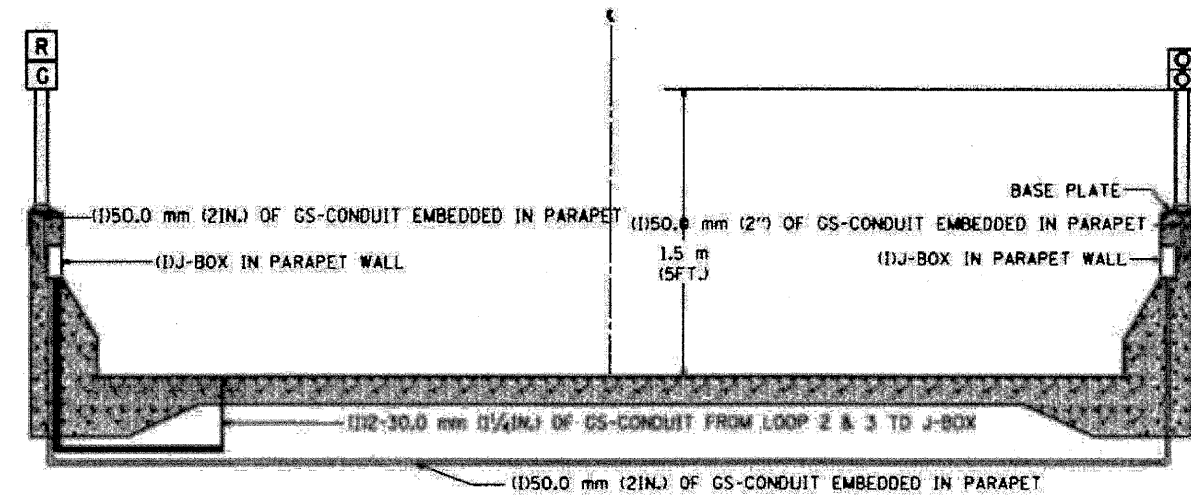
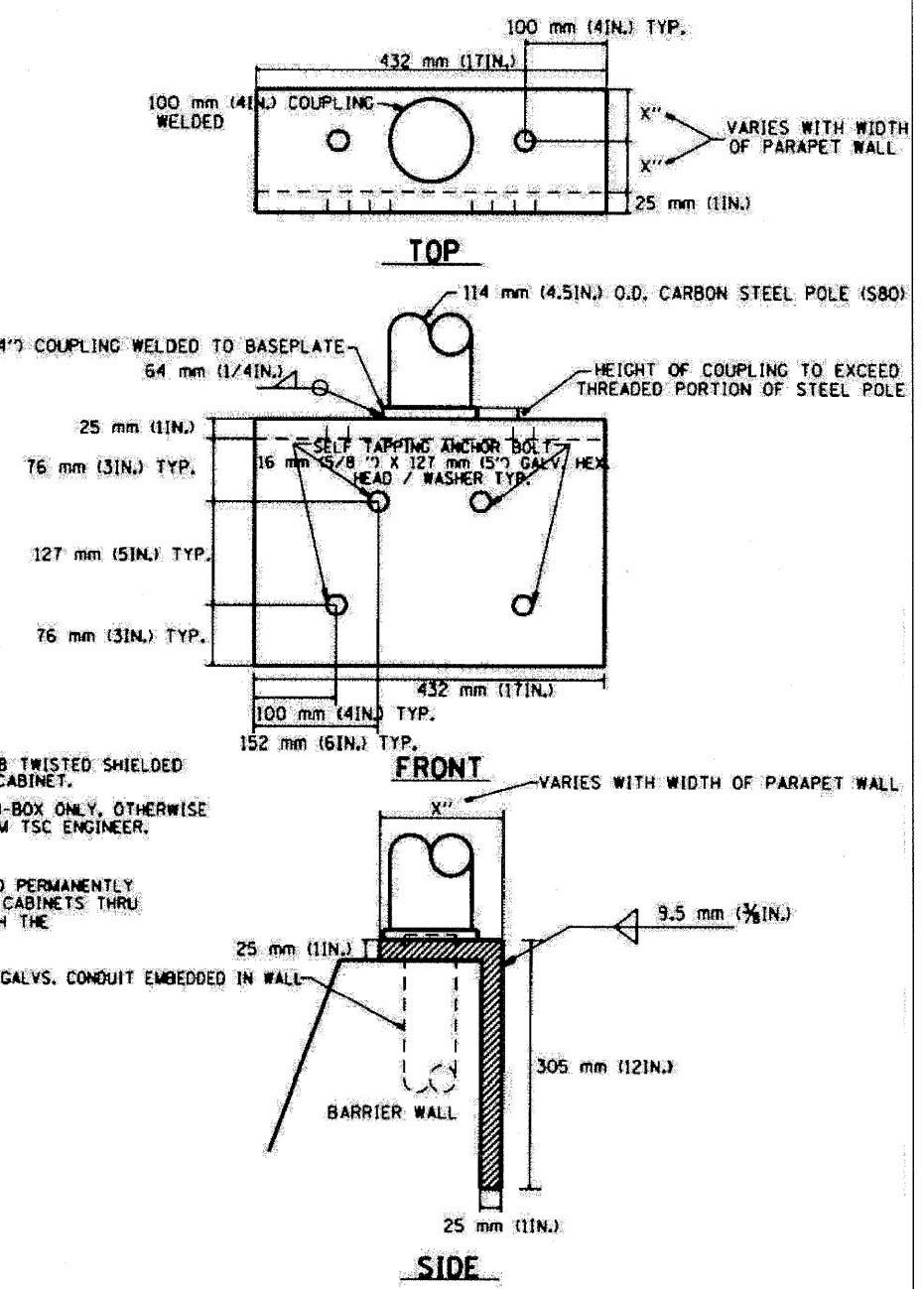
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**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')

DESIGNED	GHT	REVISIONS	
DRAWN	DMS	DATE	
CHECKED	MPM	R.L.	6/94
DATE	1/25/10	R.L.	2/96
		R.L.	9/96
		R.L.	2/98

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

SCALE: VERT. NONE  
DATE: 6-22-94

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

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

FILE NAME =	DESIGNED - GHT	REVISIONS	
USER NAME = jmajewski	DRAWN - DMS	DATE	
PLOT DATE = 1/25/2012	CHECKED - MPM	R.L.	6/94
	DATE - 1/25/10	R.L.	2/96
		R.L.	9/96
		R.L.	2/98

**benesch**

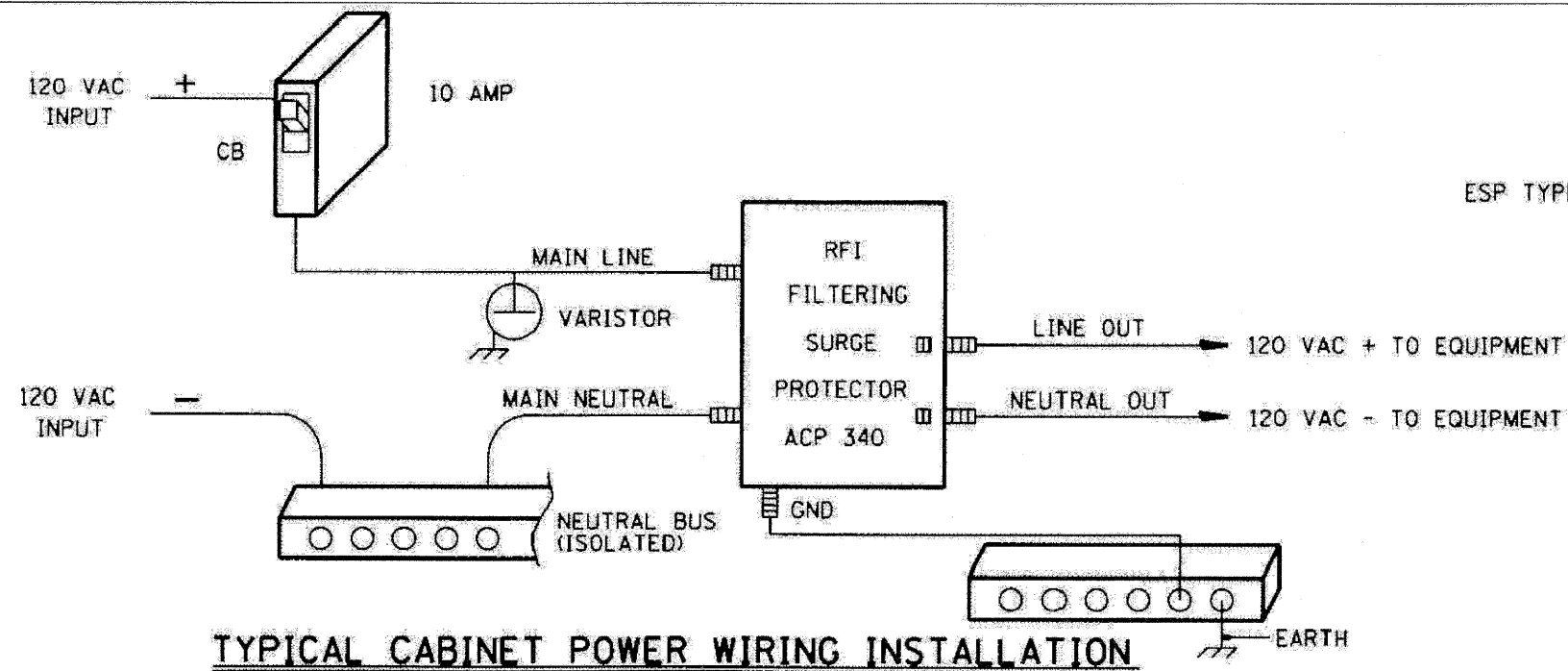
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SYSTEM CENTER  
DETAIL SHEETS**

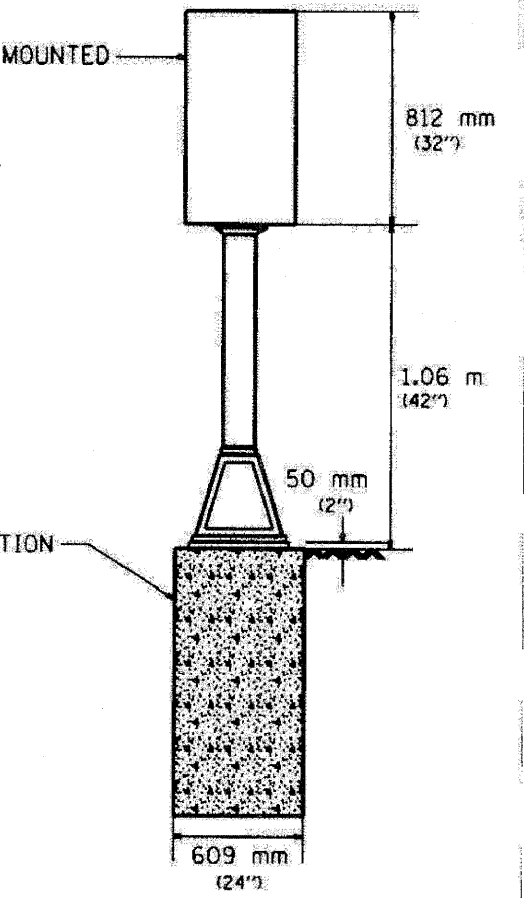
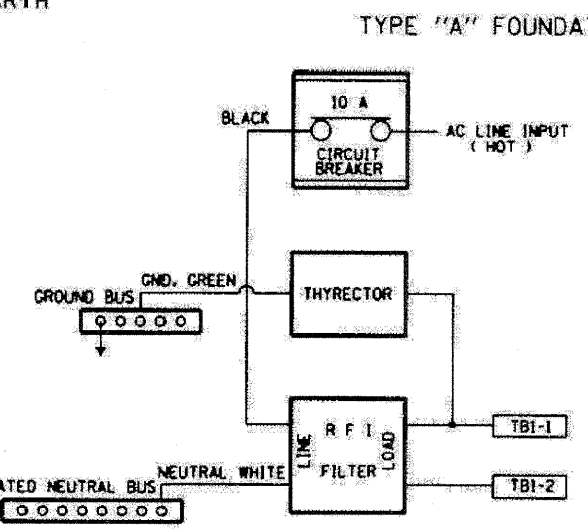
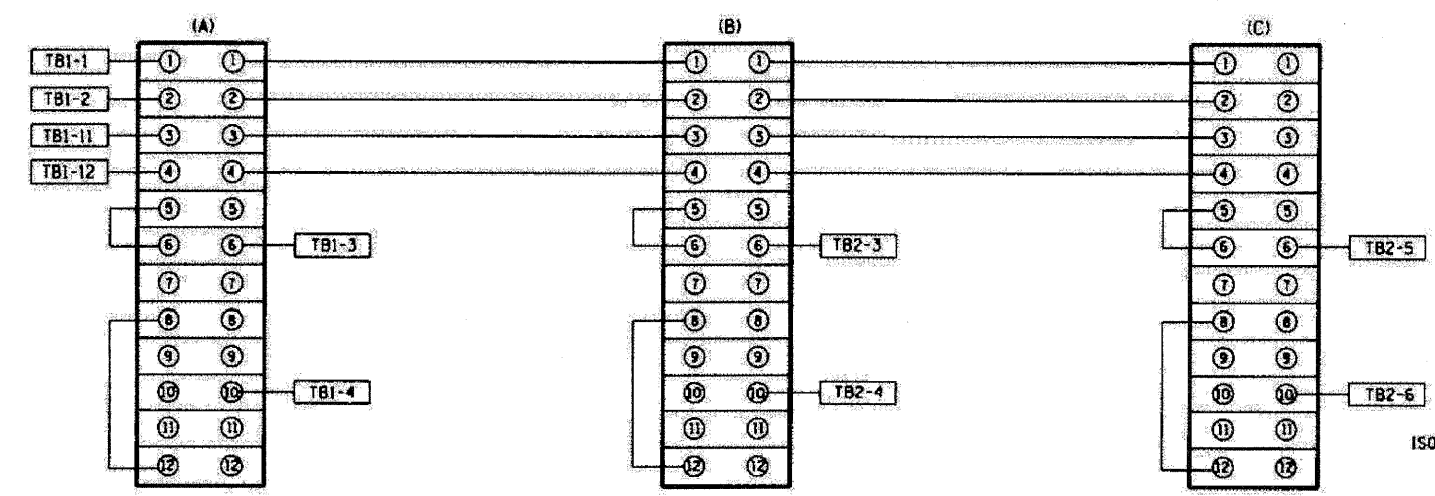
SCALE: N.T.S. SHEET NO. 3 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
290	(2727, ETC., 313)RS-7	COOK	216	184
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 60G53		

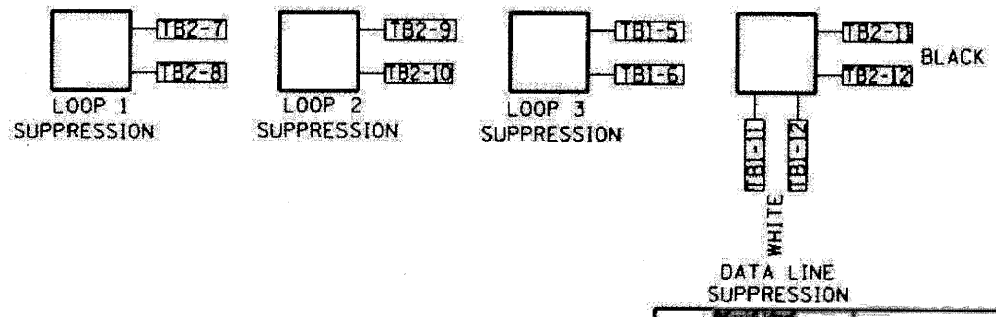
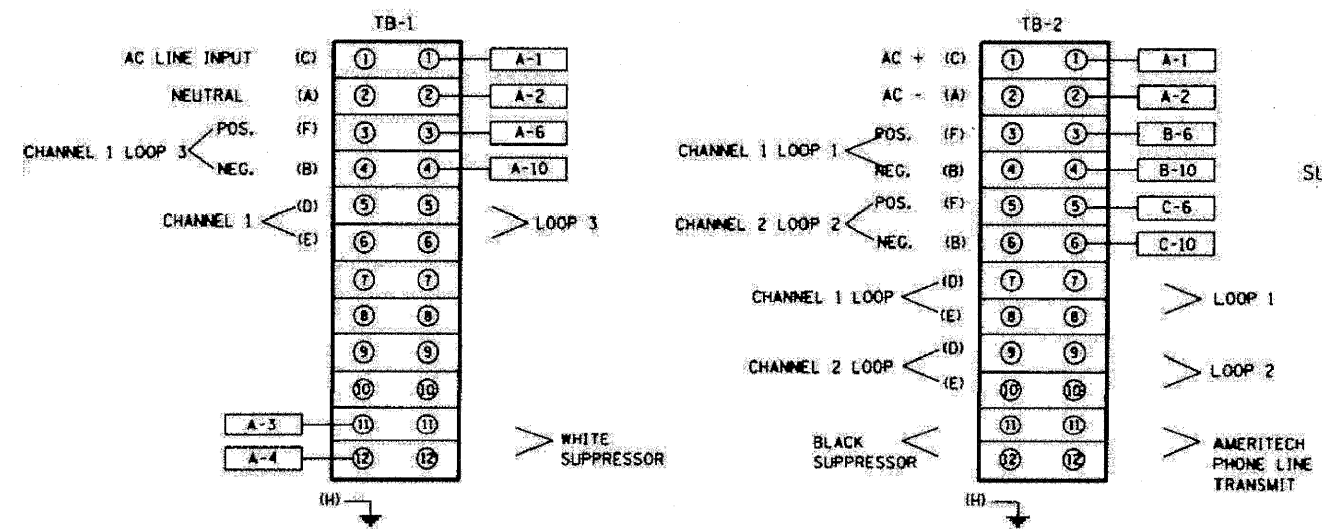
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA. _____	TO STA. _____		216	185
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



**TYPICAL CABINET POWER WIRING INSTALLATION**



**TYPE 2 CABINET INSTALLATION**



REVISIONS	
NO.	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER			
<b>TYPE II CABINET WIRING</b>			
SCALE: VERT. NONE	DATE: 4-21-94	DRAWN BY: C.M. CHECKED BY: T.C.	

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

FILE NAME =	DESIGNED - GHT	REVISED -
\\prp.in.abc.c3.ts.d01.04.dgn	DRAWN - DMS	REVISED -
USER NAME = jmajewski	CHECKED - MPM	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

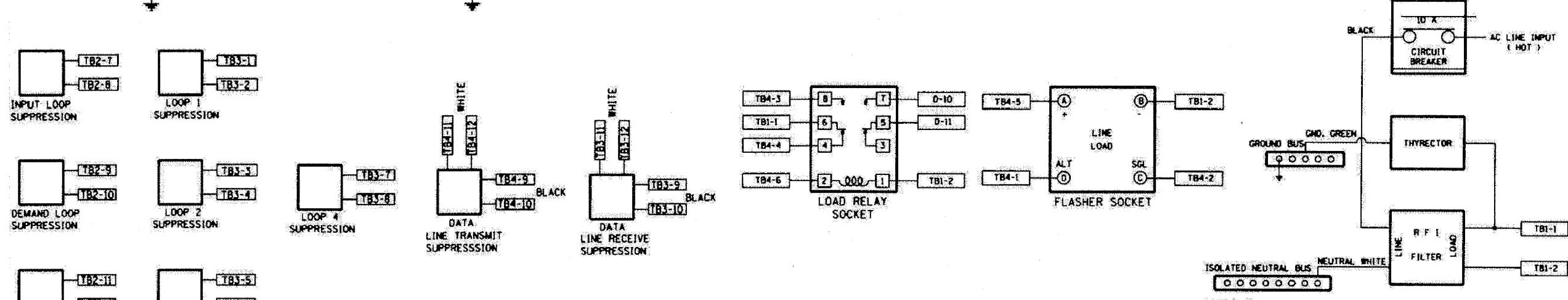
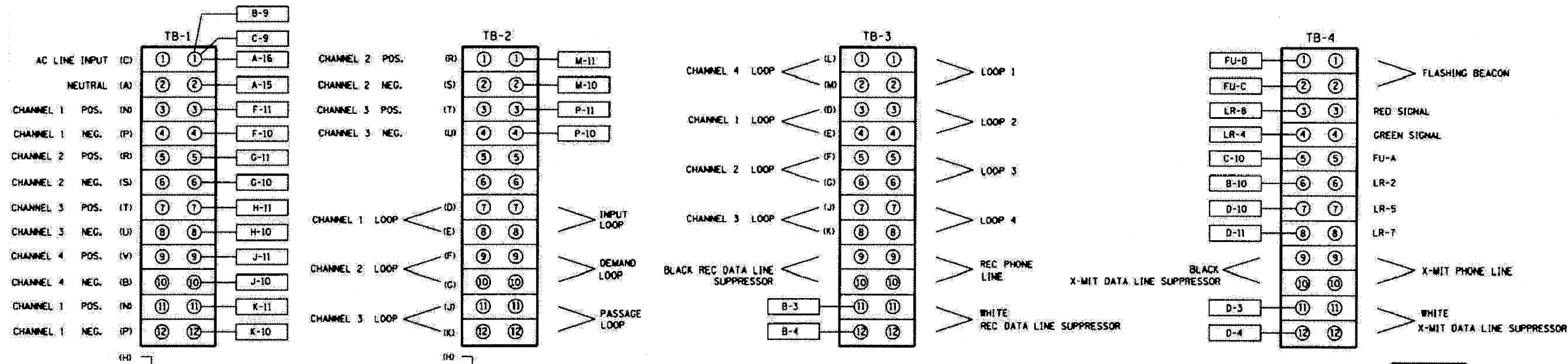
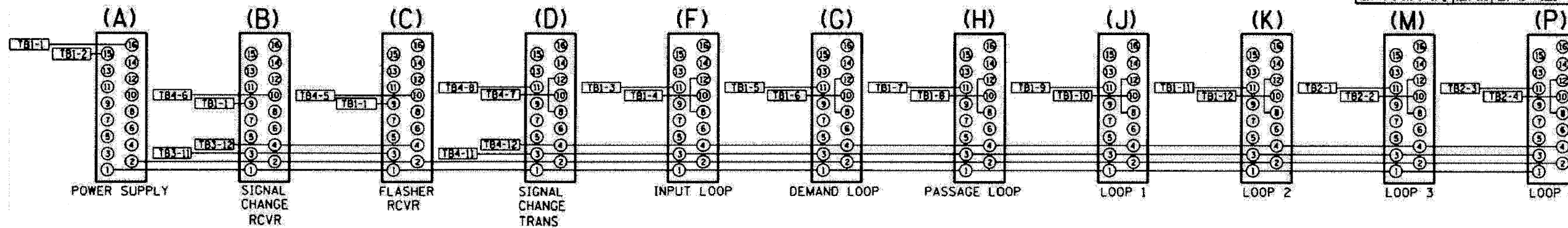
**TRAFFIC SYSTEM CENTER  
DETAIL SHEETS**

SCALE: N.T.S. SHEET NO. 4 OF 15 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	185
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
			CONTRACT NO. 60G53	

# BACK VIEW OF TONE RACK

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA. _____	TO STA. _____		216	186
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



CABINET NO. <b>REVISED</b>		ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER <b>METERING CABINET WIRING DIAGRAM</b>
NAME	DATE	
T.C.	6/94	
R.L.	3/98	
R.L.	5/99	
SCALE: METR. NONE		DRAWN BY: C.M.
DATE: 6/21/94		CHECKED BY: T.C.

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

FILE NAME: \\ppp\in_abc\c3.ts.det_05.dgn	DESIGNED - GHT	REVISED -
USER NAME: jmojewski	DRAWN - DMS	REVISED -
PLT DATE: 1/25/2010	CHECKED - MPM	REVISED -
	DATE: 1/25/10	REVISED -

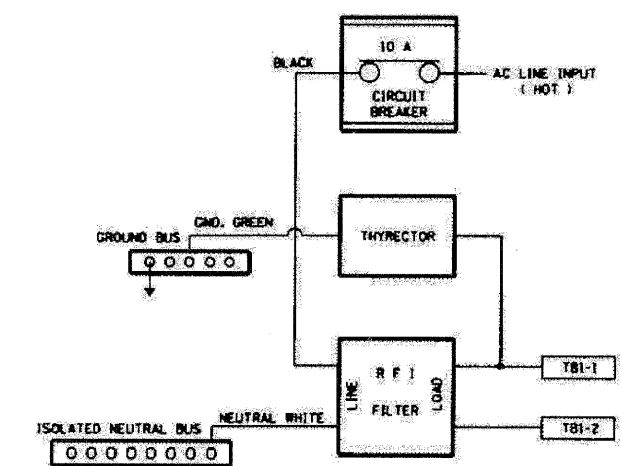
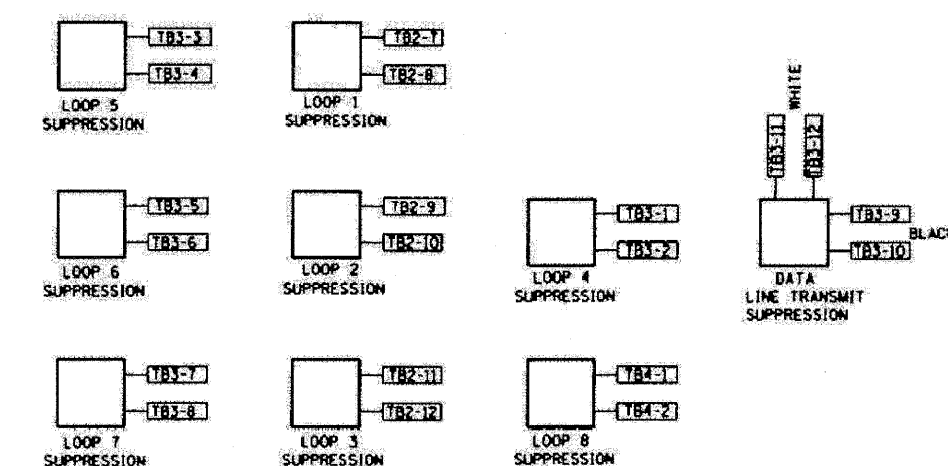
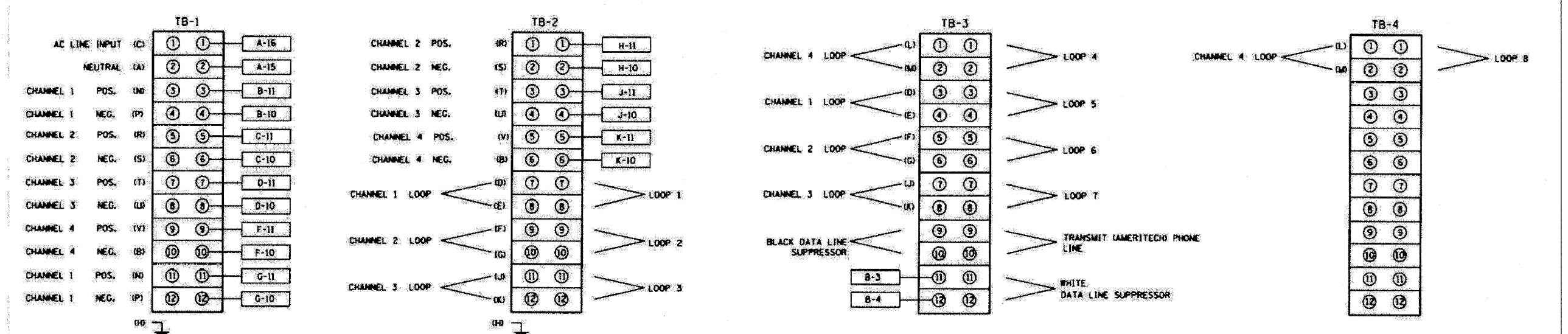
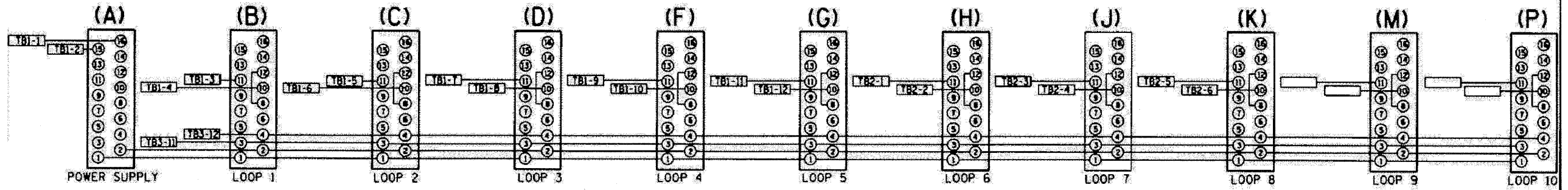
**benesch**  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SYSTEM CENTER  
DETAIL SHEETS  
SCALE: N.T.S. SHEET NO. 5 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 313)RS-7	COOK	216	186
CONTRACT NO. 60C53				
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.		REVISIONS	
NO.	DATE	BY	DATE
1	7/78	RL	
2	9/78	RL	
ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER		SCALE: NEXT NONE	
TYPE 3 CABINET WIRING DIAGRAM		DATE 10/17/85	
DRAWN BY G.M.		CHECKED BY R.L.	

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

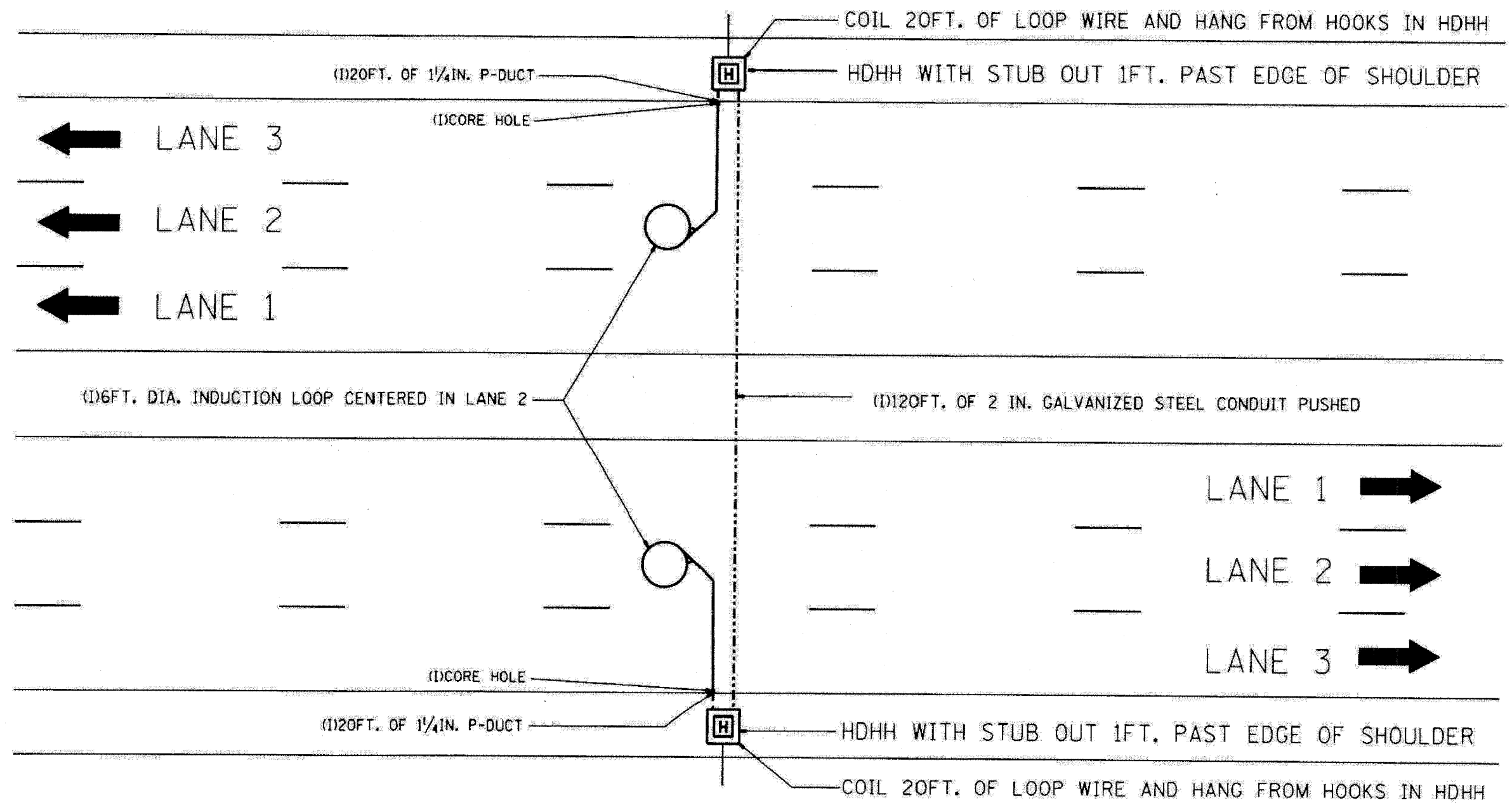
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USER NAME = jmajewski	DRAWN - DMS	REVISED -
PLOT DATE = 1/25/2010	CHECKED - MPM	REVISED -
	DATE - 1/25/10	REVISED -

**benesch**  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SYSTEM CENTER DETAIL SHEETS	
SCALE: N.T.S.	SHEET NO. 6 OF 15 SHEETS
STA. ....	TO STA. ....

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	187
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 60C53		

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.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NO.	DATE		
		ONE LANE COUNT STATION	
		SCALE: VERT. NONE	DRAWN BY: CJK
		DATE: 01-31-07	CHECKED BY: J.G.

**TRAFFIC SYSTEMS CENTER (TY-1TSC-400\*31)**

FILE NAME =	DESIGNED - GHT	REVISED -
...\\ppp\in-ABC\C3_TS_DET_07.dgn	DRAWN - DMS	REVISED -
USER NAME = jmajewski	CHECKED - MPM	REVISED -
PLCT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

**benesch**

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

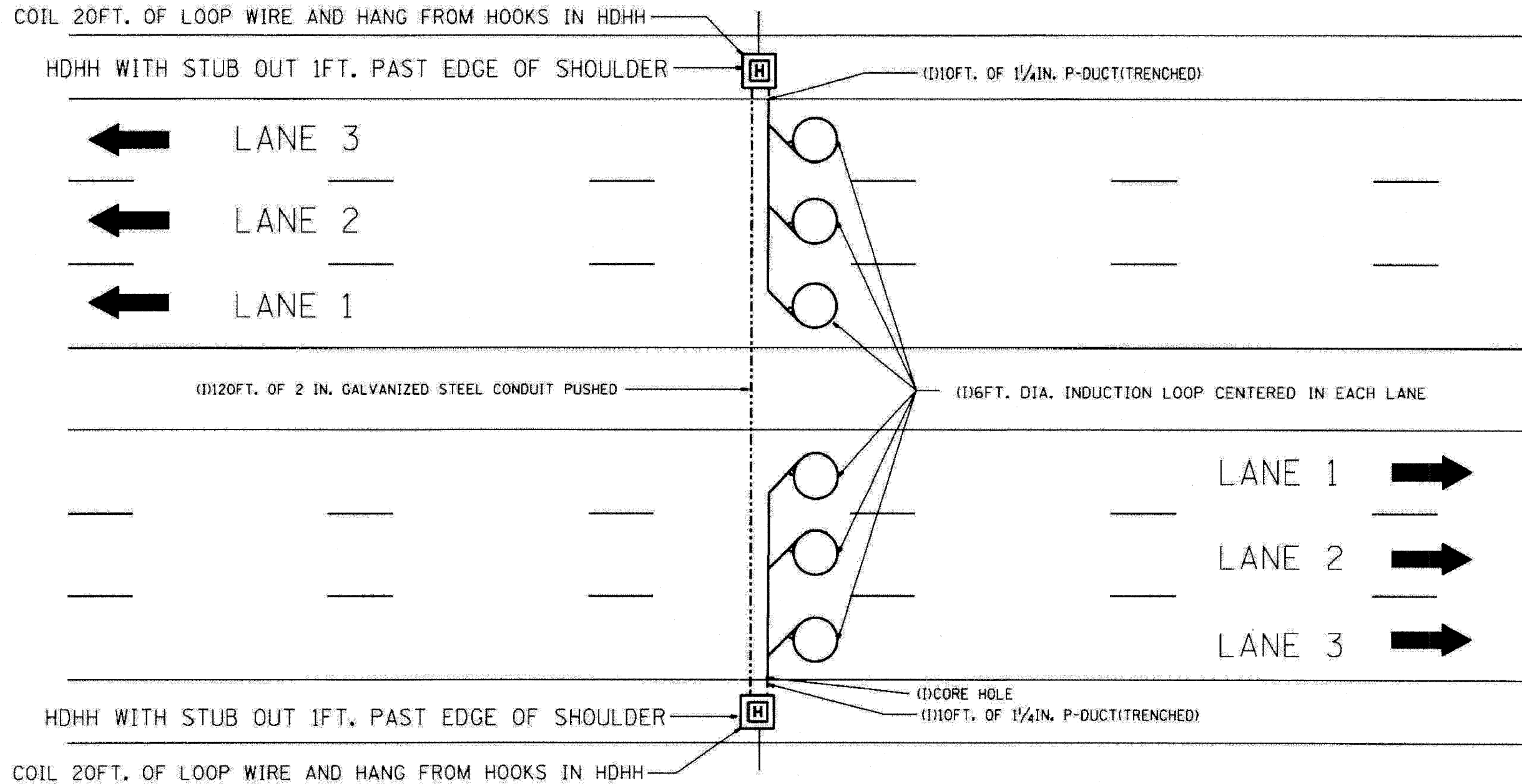
**TRAFFIC SYSTEM CENTER  
 DETAIL SHEETS**

SCALE: N.T.S. SHEET NO. 7 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	188
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 60G53				



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA. ....	TO STA. ....		216	189
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.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NO.	DATE	
		3 LANE COUNT STATION

SCALE: VERT. NONE  
 HORIZ. DATE 01-31-07  
 DRAWN BY: G.A.  
 CHECKED BY: J.G.

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

FILE NAME =	DESIGNED - GHT	REVISED -
...prp1n-ABC.C3.TS.DET.09.dgn	DRAWN - DMS	REVISED -
USER NAME = jmajewski	CHECKED - MPM	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

**benesch**

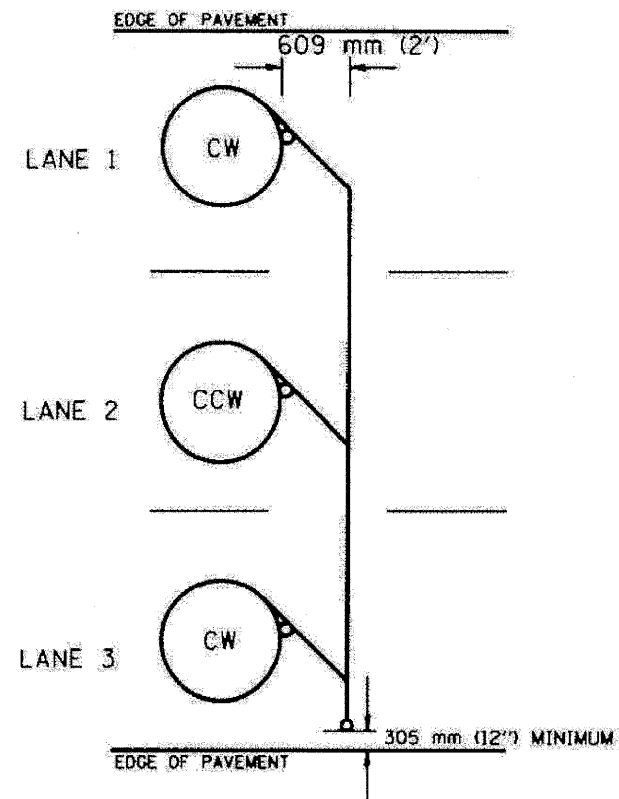
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SYSTEM CENTER  
 DETAIL SHEETS**

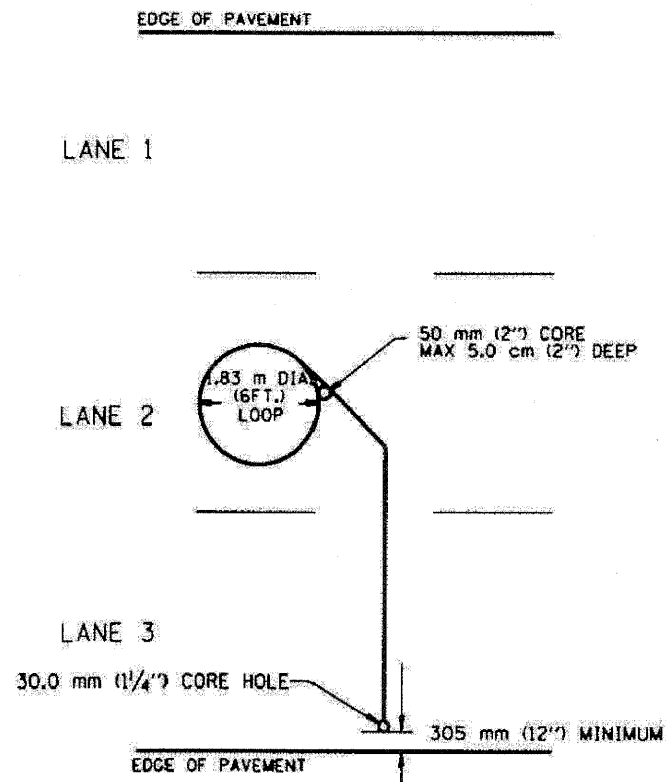
SCALE: N.T.S. SHEET NO. 8 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	189
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

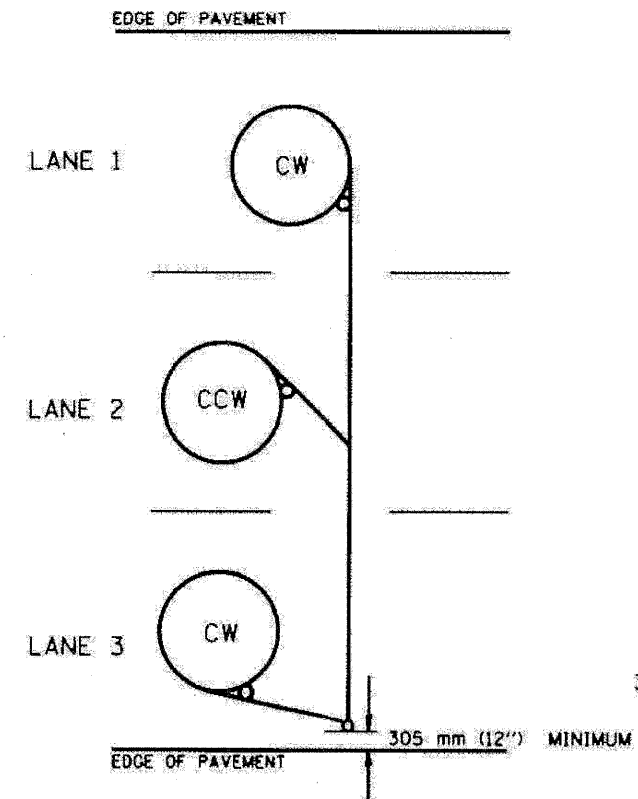
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STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



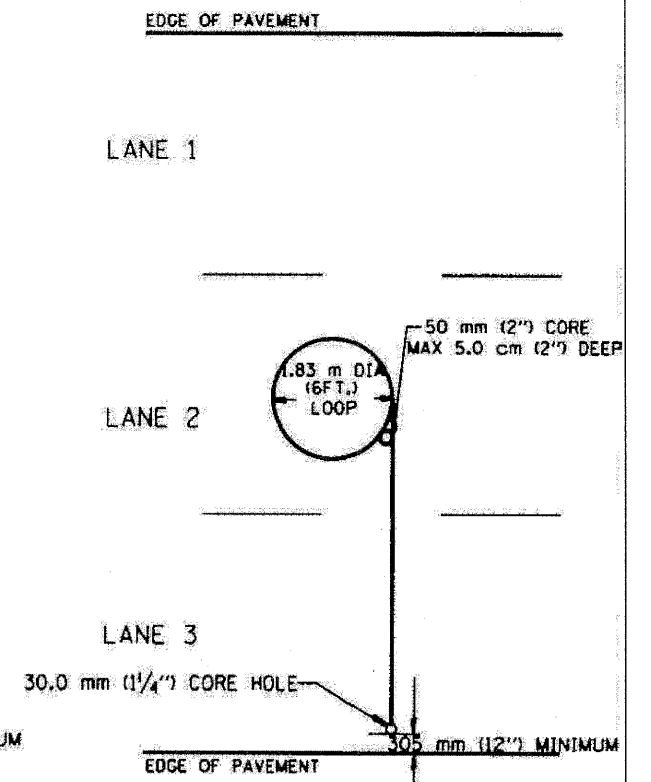
TYPICAL 1.83 m (6FT.) DIA. INDUCTION LOOP CORE DRILL  
LAYOUT FOR MULTIPLE LANE ROADWAY



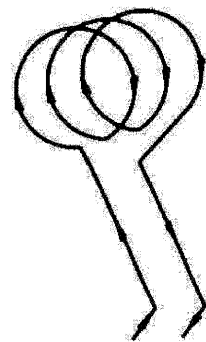
TYPICAL 1.83 m (6') DIA. INDUCTION LOOP  
LAYOUT FOR LANE 2



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.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	
NO.	DATE	EXISTING ROUND LOOP INSTALLATION	
1.	1/25		
2.	1/25		
SCALE: VERT. NONE HORIZ. DATE 5-22-94		DRAWN BY: C.M. CHECKED BY: R.L.	

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

FILE NAME =	DESIGNED - GHT	REVISED -
...prop\ABC_C3_TS_DET_09.dgn	DRAWN - DMS	REVISED -
USER NAME = jmajewski	CHECKED - MPV	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

**benesch**

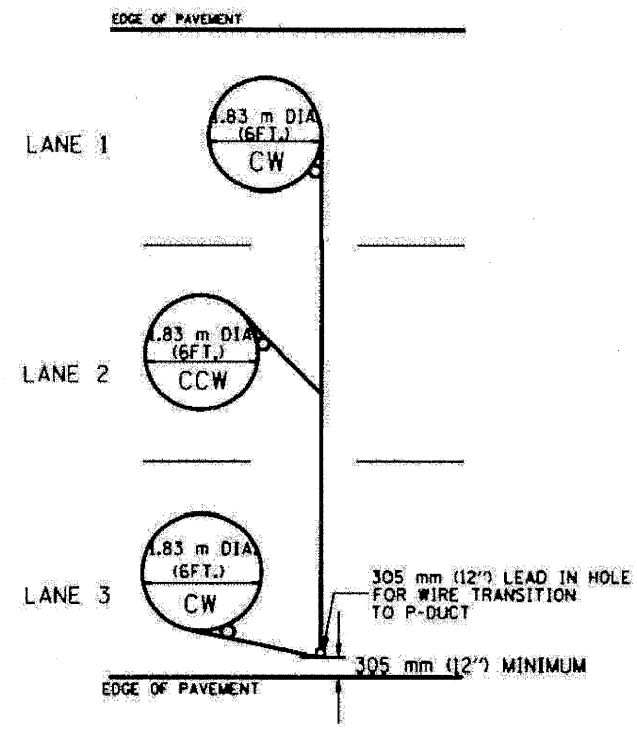
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SYSTEM CENTER  
DETAIL SHEETS**

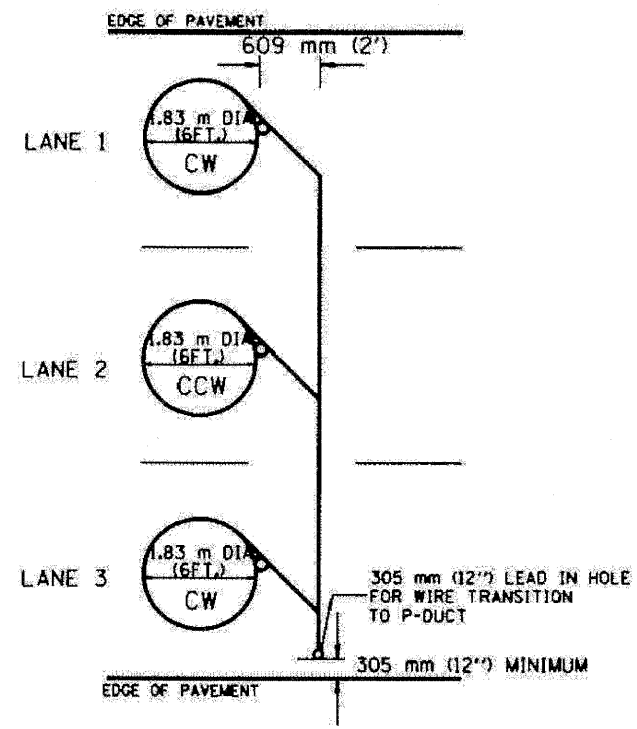
SCALE: N.T.S. SHEET NO. 9 OF 15 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131RS-7)	COOK	216	190
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60653	

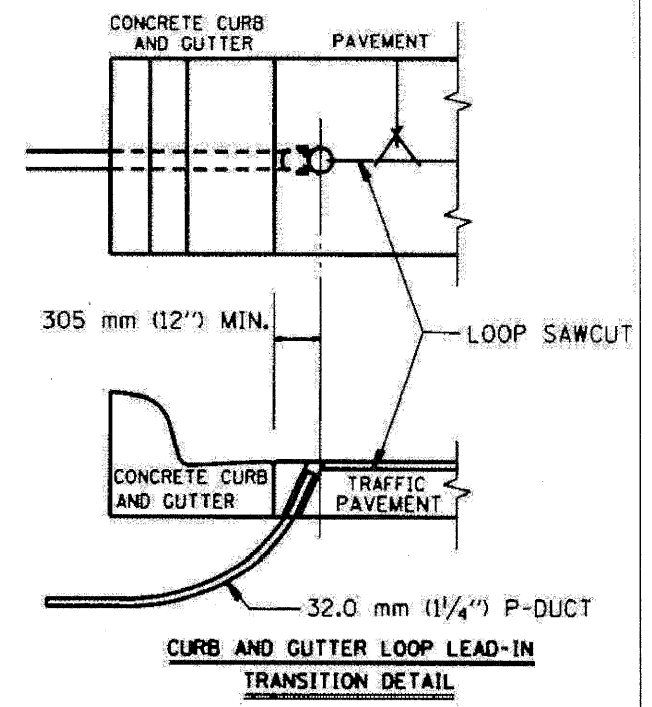
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



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



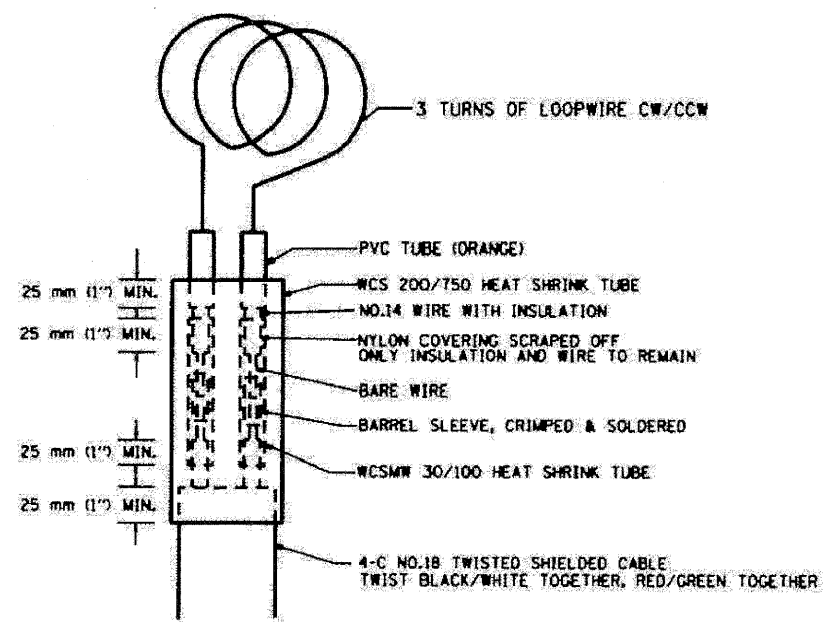
**TYPICAL 1.83 m (6FT.) DIA. INDUCTION LOOP CORE DRILL LAYOUT FOR MULTIPLE LANE ROADWAY**



**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.



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

**LOOP SPlicing REQUIREMENTS**

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER <b>EXISTING ROUND INDUCTION LOOP TYPICALS</b>
NO.	DATE	
1.	6/94	SCALE: VERT. NONE DATE 5-22-94
2.	10/96	
		DRAWN BY: G.M. CHECKED BY: R.L.

**TRAFFIC SYSTEMS CENTER (TY-ITSC-418#2)**

FILE NAME =	DESIGNED - GHT	REVISED -
...prp1n_ABC_C3_TS_DET_10.dgn	DRAWN - DMS	REVISED -
USER NAME = jhojwaks	CHECKED - MPM	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

**benesch**

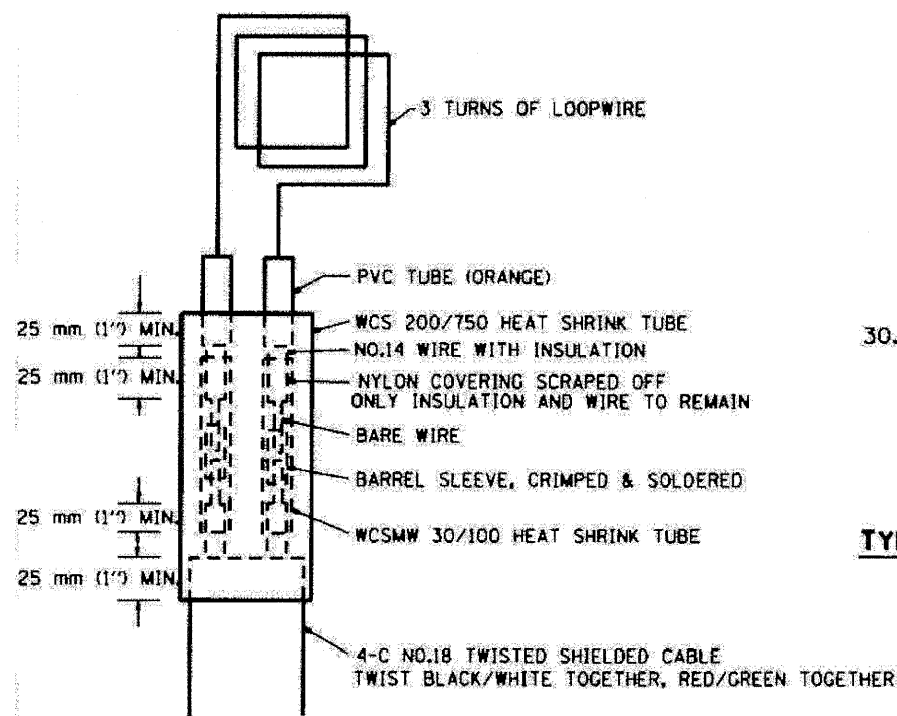
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SYSTEM CENTER  
DETAIL SHEETS**

SCALE: N.T.S.	SHEET NO. 10 OF 15 SHEETS	STA. TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131RS-7)	COOK	216	191
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
			CONTRACT NO. 60G53	

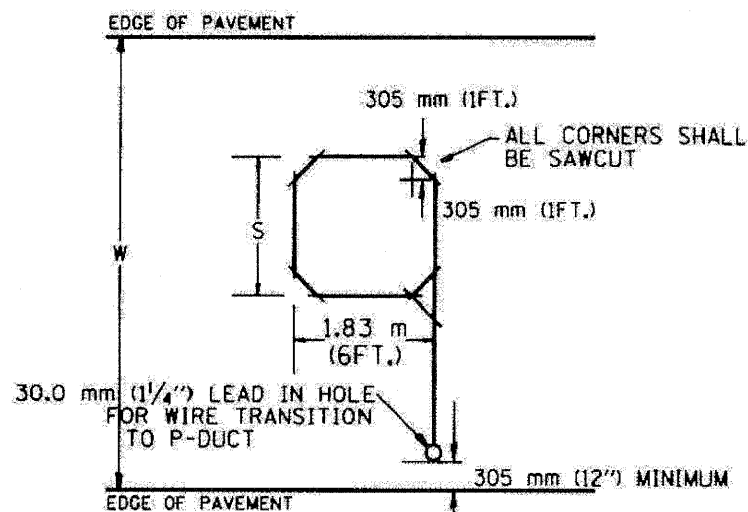
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _____	ILLINOIS FED. AID PROJECT			



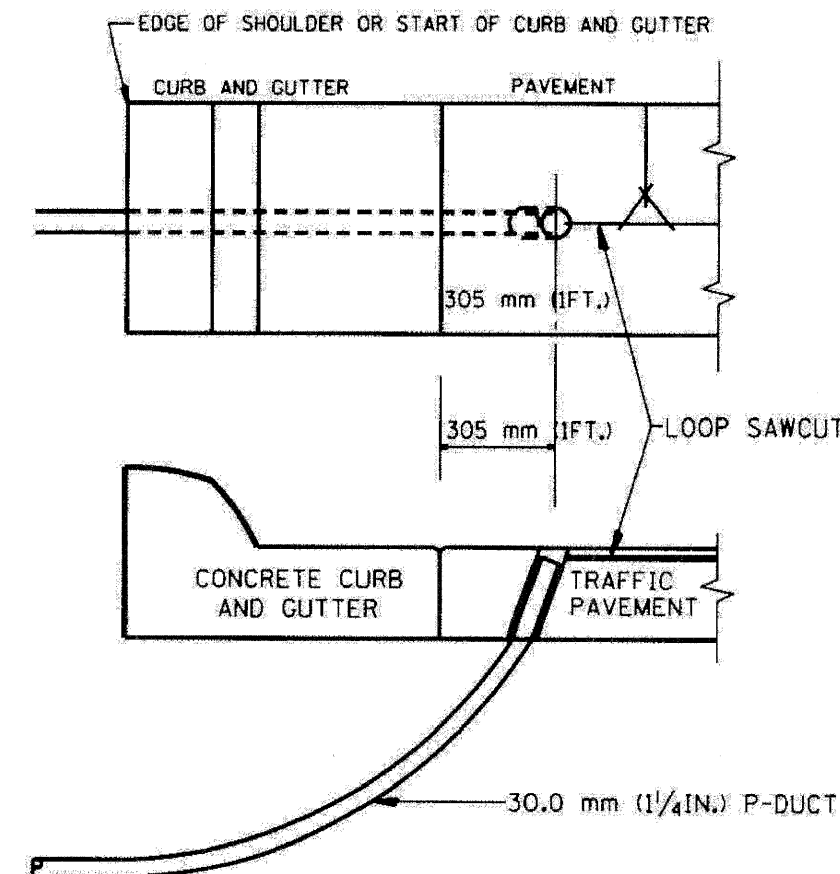
MINIMUM 25 mm (1") HEAT SHRINK TUBING OVERLAP ON WIRE, PVC & SHIELDED CABLE TO FORM WATER TIGHT SEAL

**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 RAMPS**



**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.

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

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

FILE NAME =	DESIGNED - GHT	REVISED -
...:\proj\in_abc_c3_ts_det_11.dgn	DRAWN - DMS	REVISED -
USER NAME = jmajewski	CHECKED - MPW	REVISED -
PLDT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

**benesch**

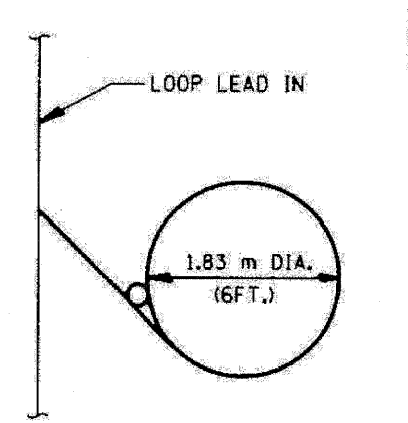
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SYSTEM CENTER  
DETAIL SHEETS**

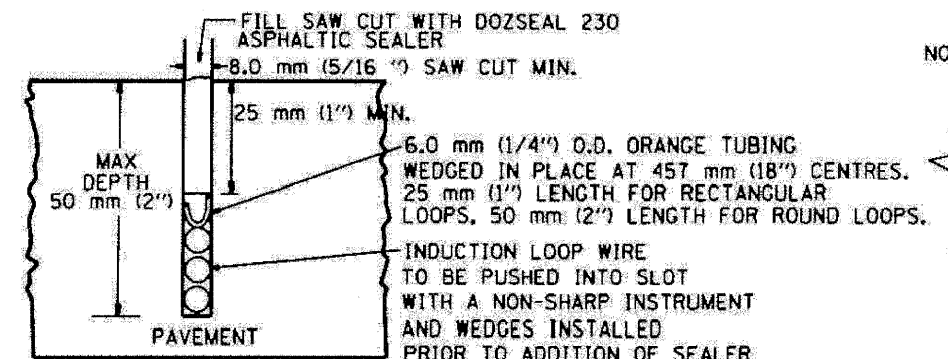
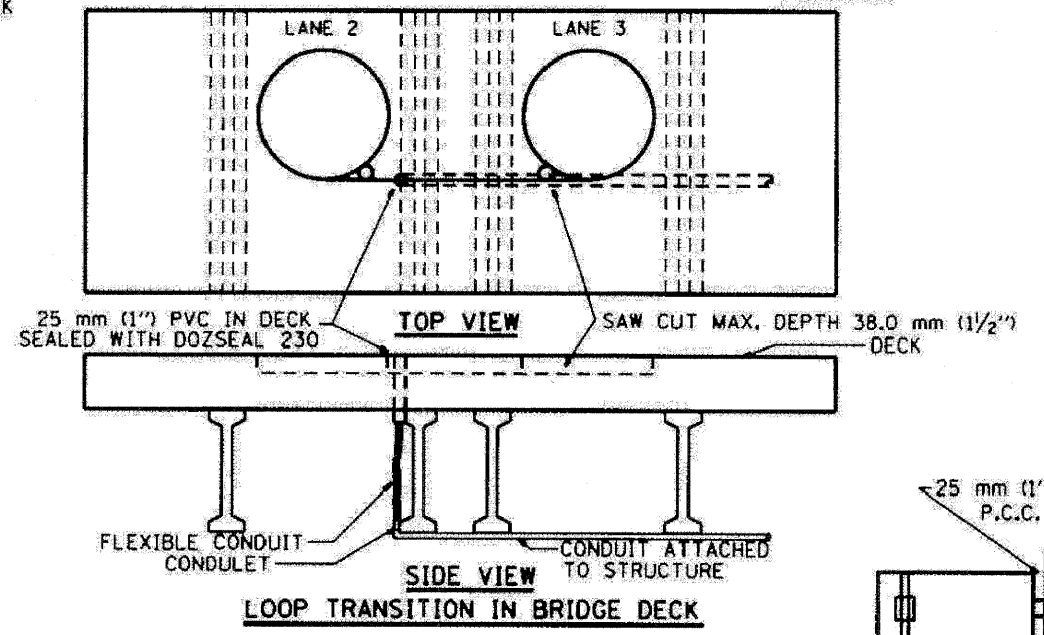
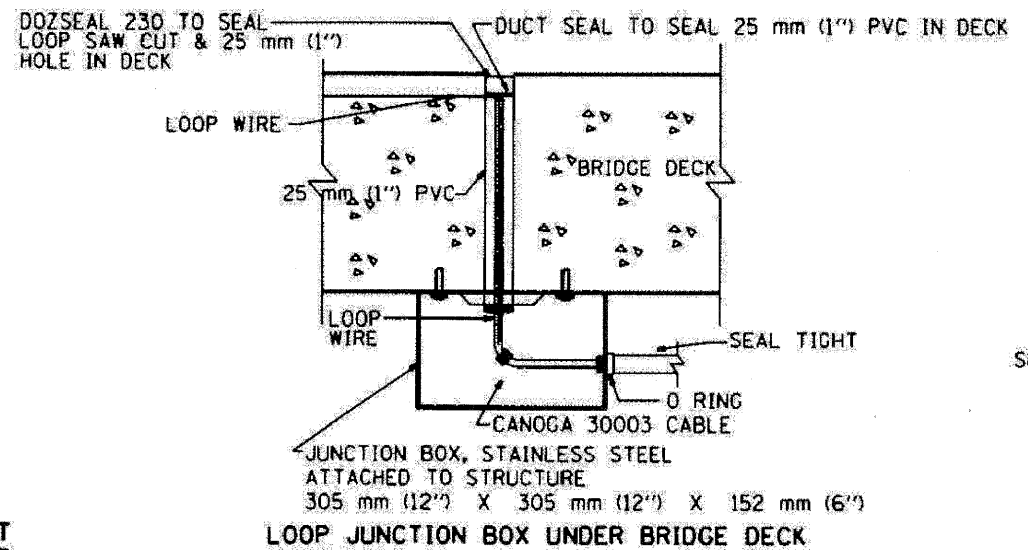
SCALE: N.T.S. SHEET NO. 11 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	192
FED. ROAD DIST. NO. _____			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60C53	

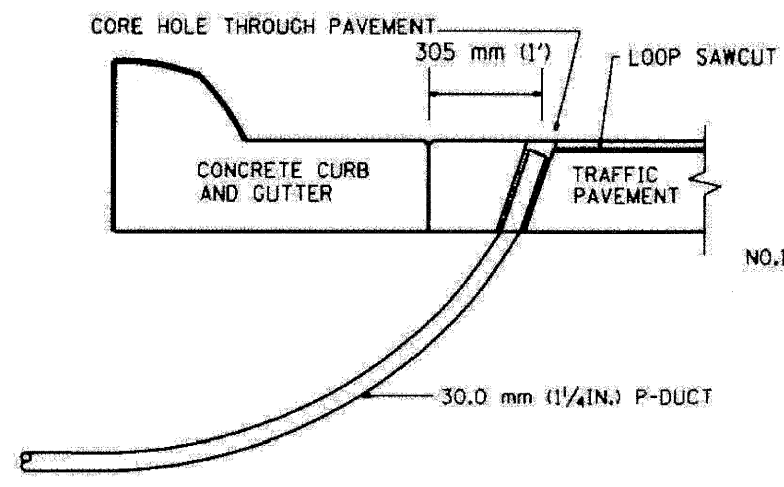
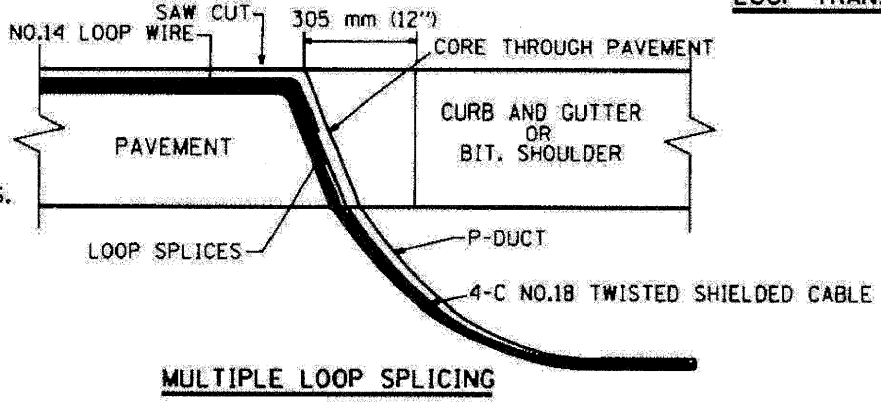
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



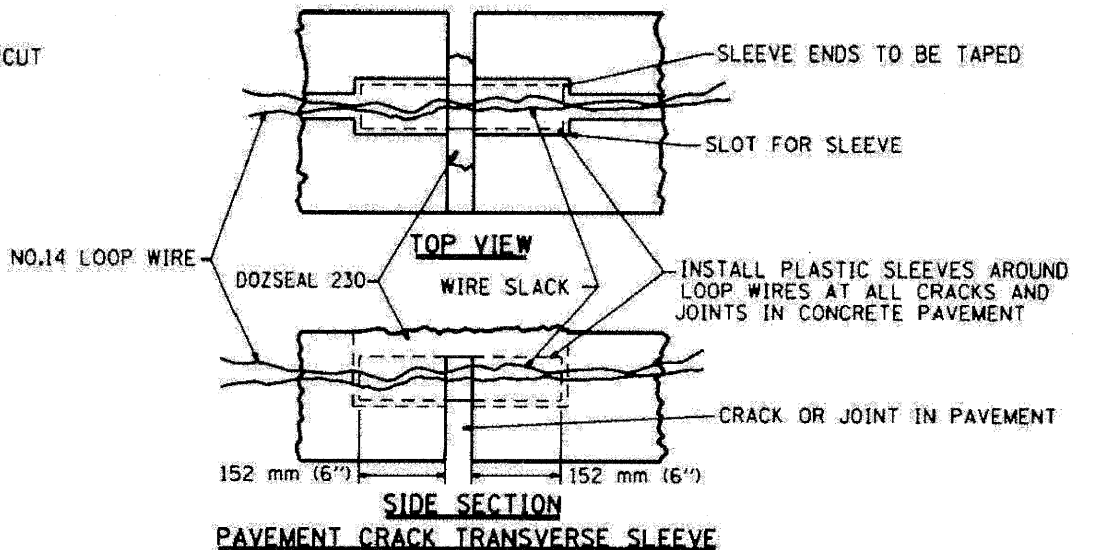
TYPICAL LOOP SAWCUT LAYOUT



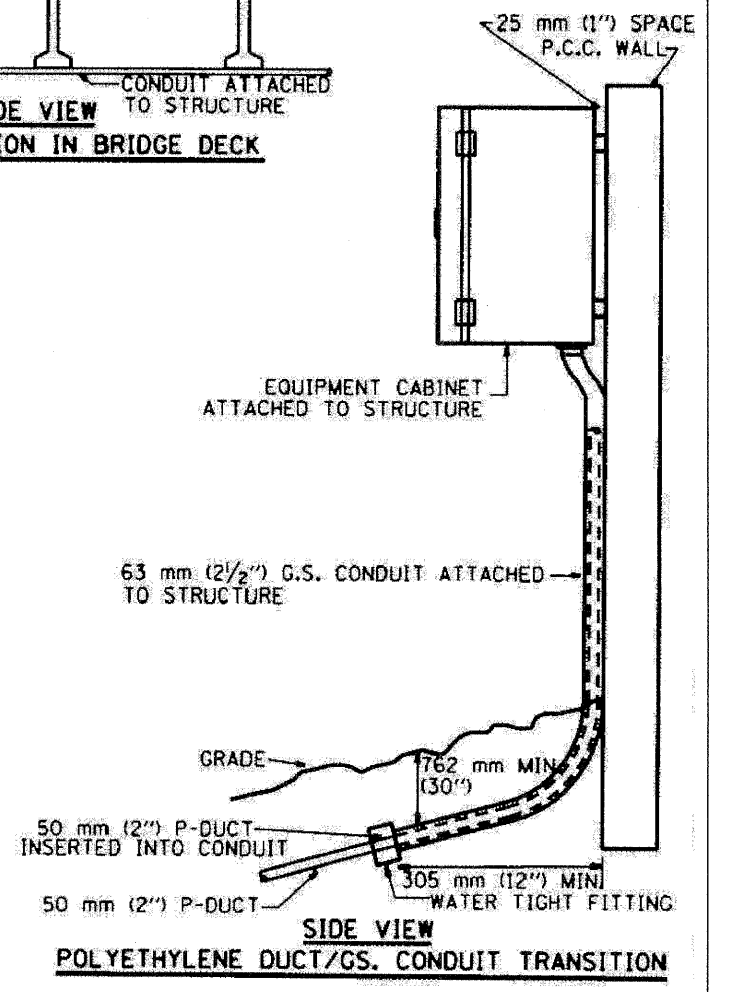
LOOP CROSS SECTION IN PAVEMENT



SIDE SECTION LOOP LEAD-IN TRANSITION DETAIL



SIDE SECTION PAVEMENT CRACK TRANSVERSE SLEEVE



REVISION	DATE
R.L.	5/01
R.L.	5/08
T.C.	11/05
R.L.	08/06
T.C.	10/06

ILLINOIS DEPARTMENT OF TRANSPORTATION  
TRAFFIC SYSTEMS CENTER

**LOOP, CONDUIT & DUCT INSTALLATION DETAILS**

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

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

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

FILE NAME =	DESIGNED - GHT	REVISED -
...pprIn_ABC_C3_TS_DET.12.dgn	DRAWN - DMS	REVISED -
USER NAME = jnajewski	CHECKED - MPM	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

**benesch**

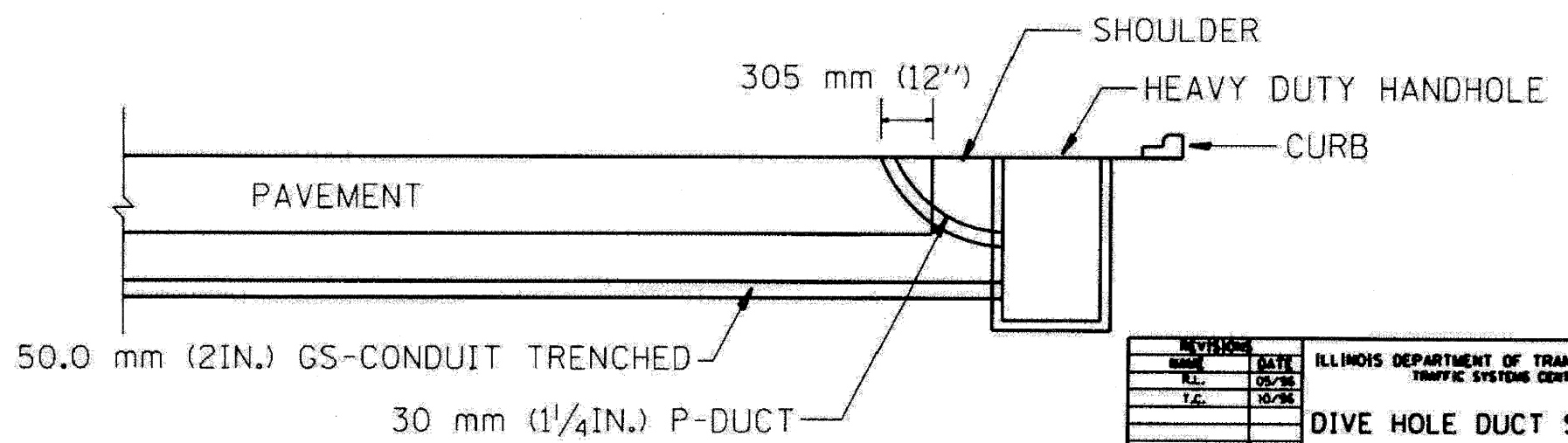
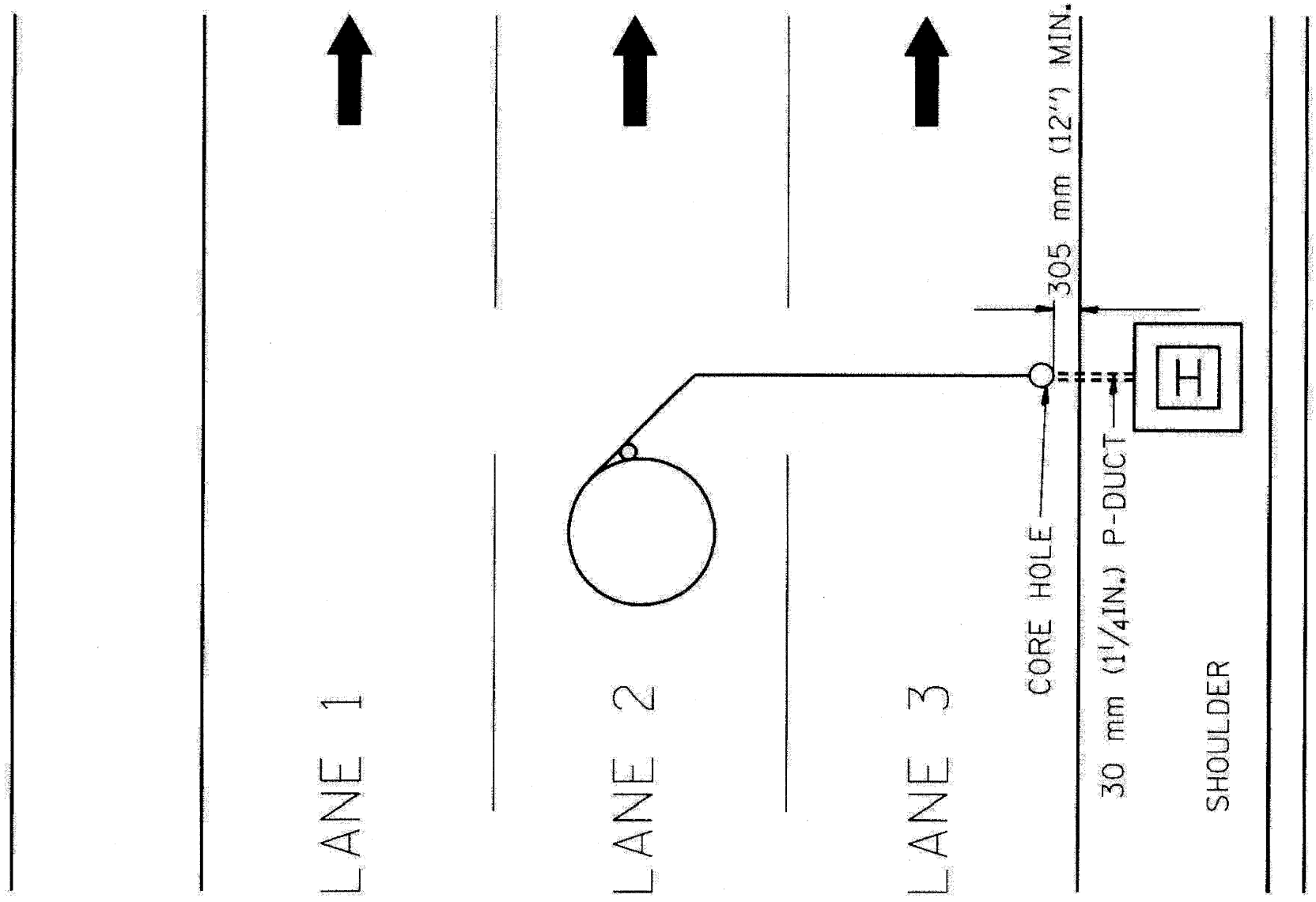
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SYSTEM CENTER  
DETAIL SHEETS

SCALE: N.T.S. SHEET NO. 12 OF 15 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131RS-7	COOK	216	193
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 60C53		

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



REVISION	DATE

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)**

FILE NAME -	DESIGNED - GHT	REVISED -
...\\ppp1n_abc.c3.ts_det_13.dgn	DRAWN - DMS	REVISED -
USER NAME - jmajewski	CHECKED - MPM	REVISED -
PLOT DATE - 1/25/2010	DATE - 1/25/10	REVISED -

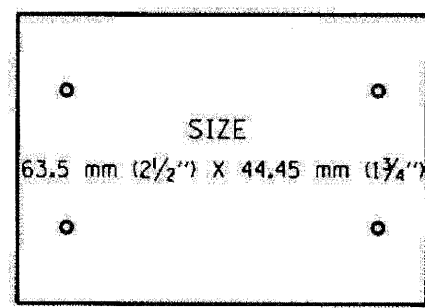
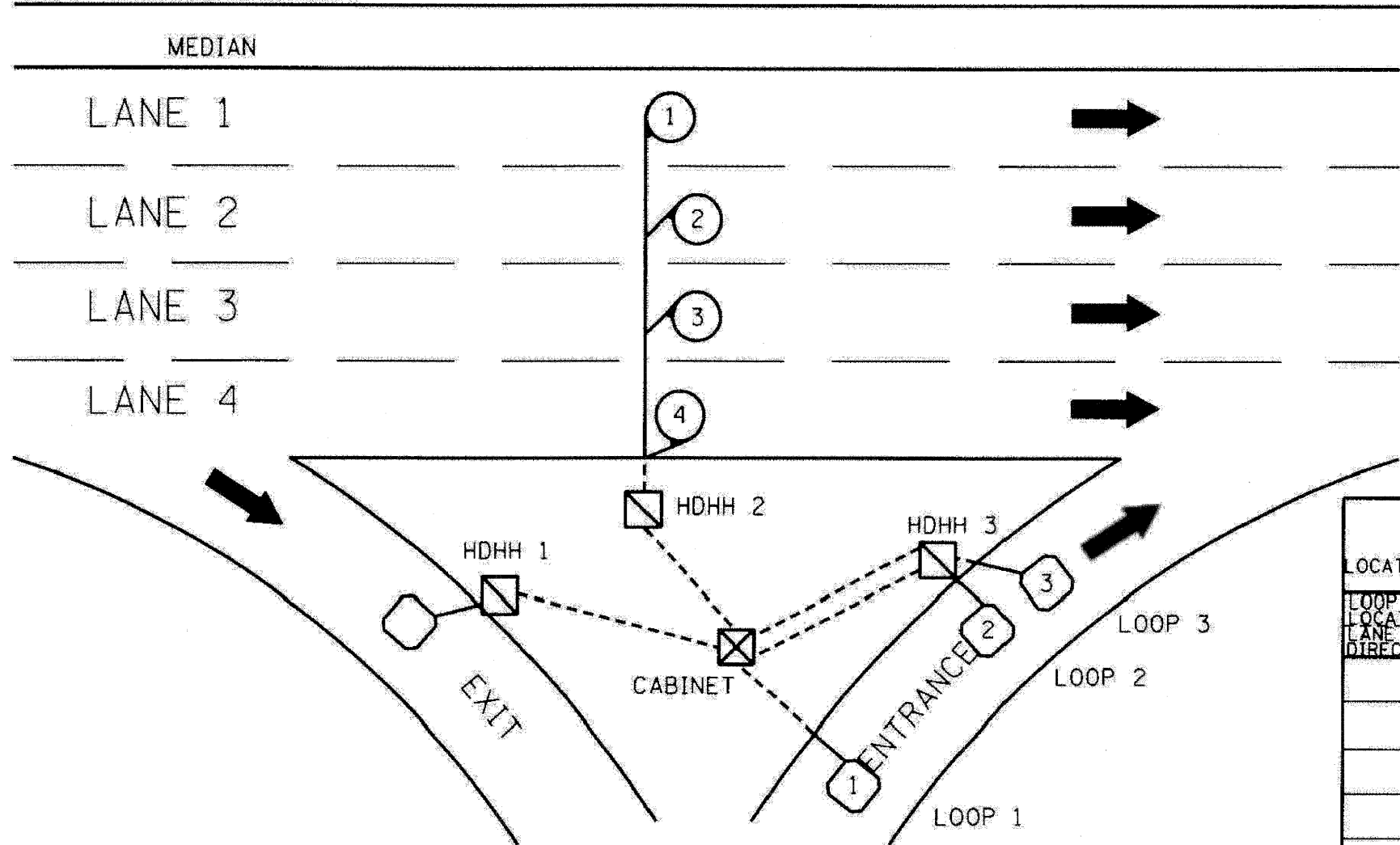
**benesch**

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TRAFFIC SYSTEM CENTER DETAIL SHEETS	
SCALE: N.T.S.	SHEET NO. 13 OF 15 SHEETS
STA. _____	TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 313)RS-7	COOK	216	194
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT _____		
CONTRACT NO. 60G53				

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	DATE
R.L.	6/94
T.E.	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)**

FILE NAME =	DESIGNED - GHT	REVISED -
...prepIn_ABC_C3_TS_DET_14.dgn	DRAWN - DMS	REVISED -
USER NAME = jmajevski	CHECKED - MPM	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

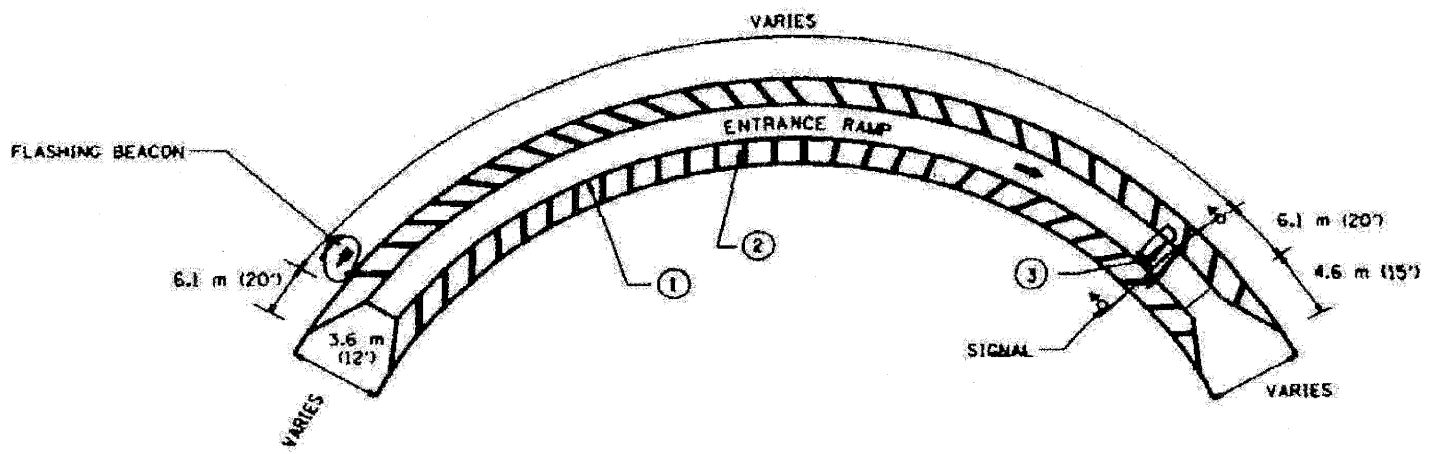
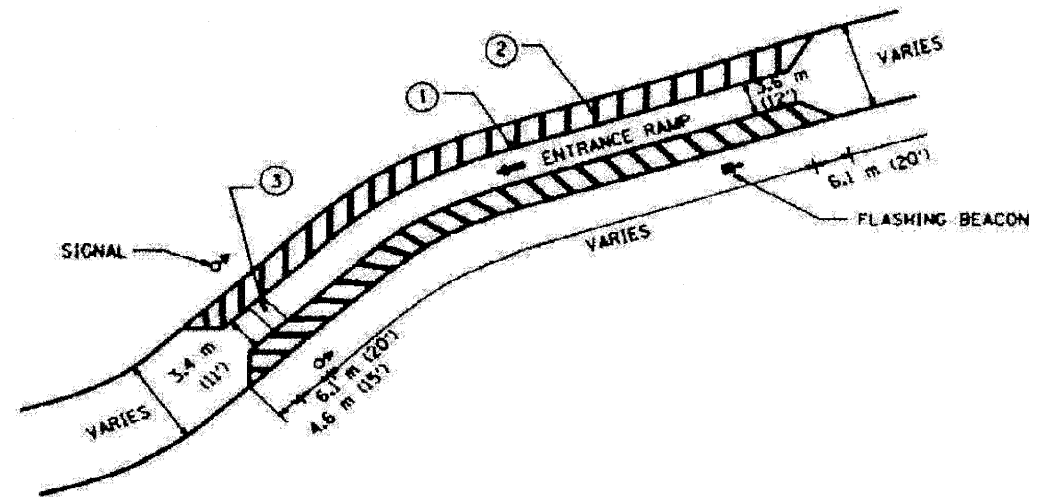


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC SYSTEM CENTER DETAIL SHEETS		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: N.T.S.		290	(2727, ETC., 3131)RS-7	COOK	216	195
SHEET NO. 14 OF 15 SHEETS		STA.		TO STA.		

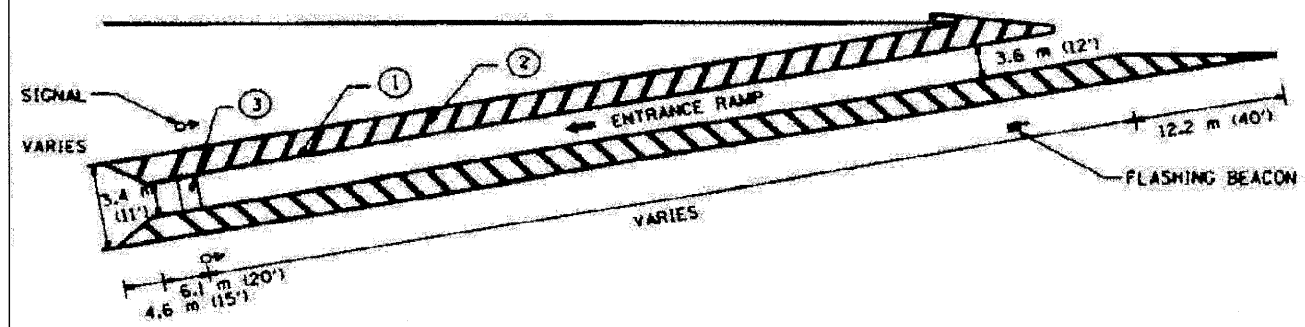
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	195
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 60G53		

F.A.I. SECTION	COUNTY	TOTAL SHEETS
STA. TO STA.	ILLINOIS FED. AID PROJECT	



**PAVIMENT 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



REVISION	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC SYSTEMS CENTER  
**TYPICAL RAMP  
 METERING STRIPING**  
 SCALE: 1/8" = 1'-0"  
 DATE: 1-22-10  
 DRAWN BY: C.M.  
 CHECKED BY: A.L.

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

FILE NAME =	DESIGNED - GHT	REVISED -
...prp1n_abc.c3.ts_det_16.dgn	DRAWN - DMS	REVISED -
USER NAME = jma/jmaki	CHECKED - MPM	REVISED -
PLT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

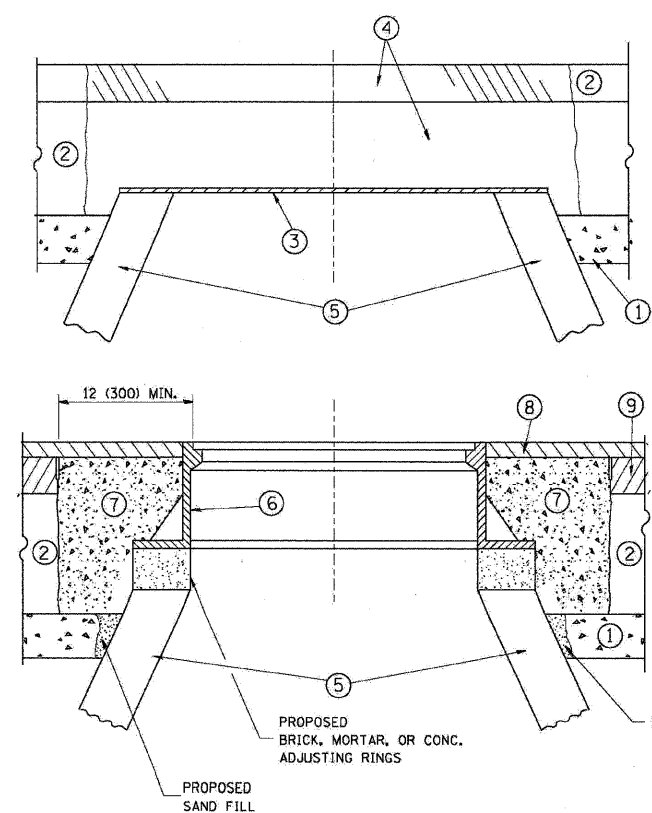
**benesch**

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SYSTEM CENTER  
 DETAIL SHEETS**  
 SCALE: N.T.S. SHEET NO. 15 OF 15 SHEETS STA. TO STA.

F.A.I. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290 (2727, ETC., 313)RS-7	COOK	216	196
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 60653	





**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 1 1/2 (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

**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.

**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.

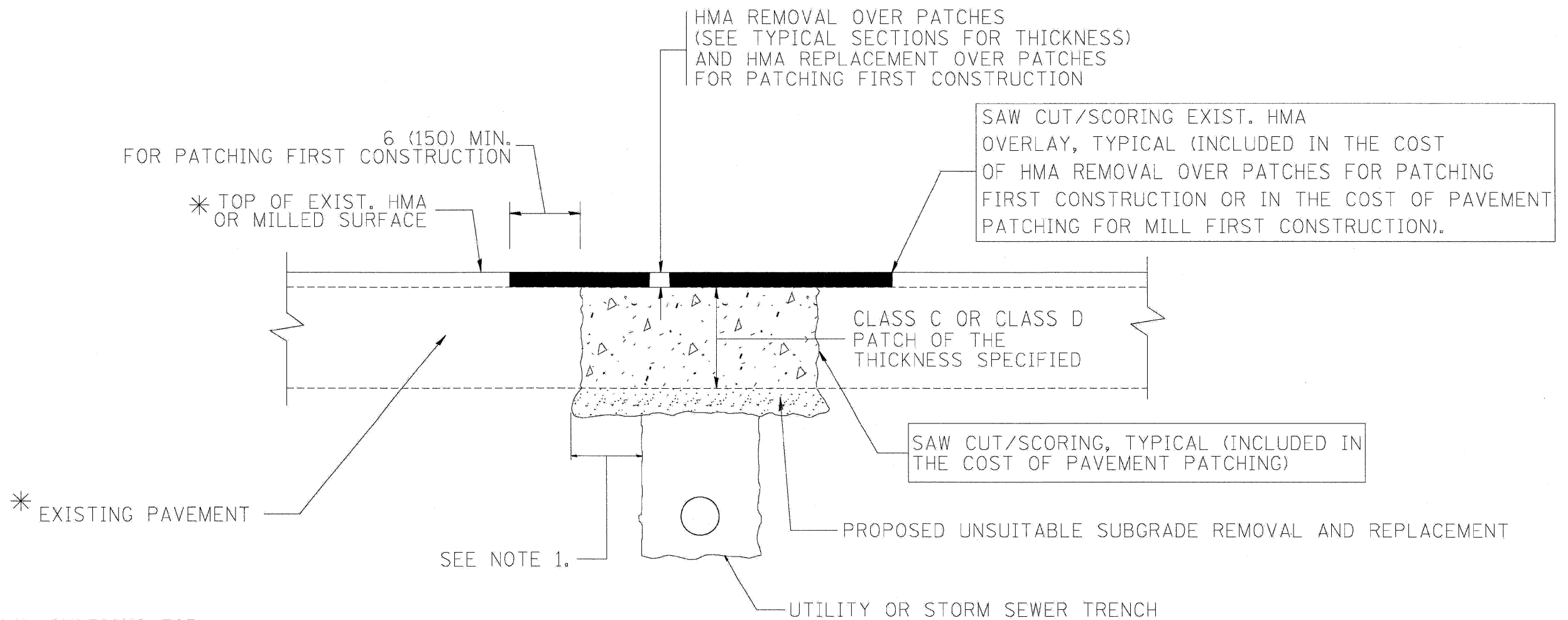
**BASIS OF PAYMENT:** THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL" NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

**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. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...prep.in_ABC.C3.D1_BD-B.dgn	DRAWN - TMB	REVISED -				290	(2727, ETC., 3131)RS-7	COOK	216	197
USER NAME = jma@jmwsk	CHECKED - JMM	REVISED -				CONTRACT NO. 60G53				
PLOT DATE = 1/25/2018	DATE - 1/25/10	REVISED -				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
SCALE: N.T.S. SHEET NO. 1 OF 20 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 -
...prp\In_ABC_C3_01_80-22.dgn	DRAWN - TMB	REVISED -
USER NAME - jma,jewski	CHECKED - JMM	REVISED -
PLOT DATE - 1/25/2012	DATE - 1/25/10	REVISED -

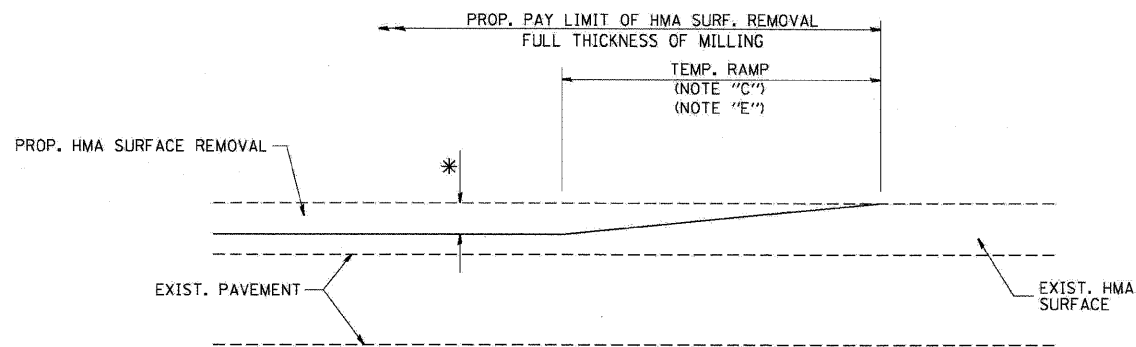
**benesch**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT**

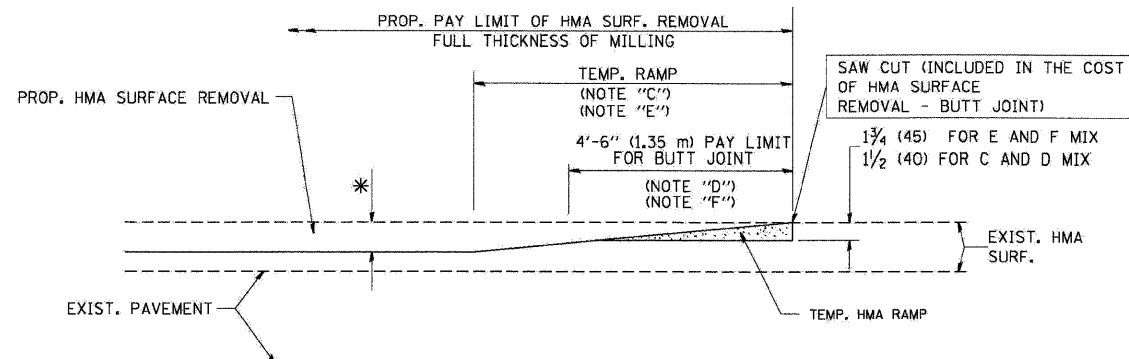
SCALE: N.T.S. SHEET NO. 2 OF 20 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	198
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60G53	



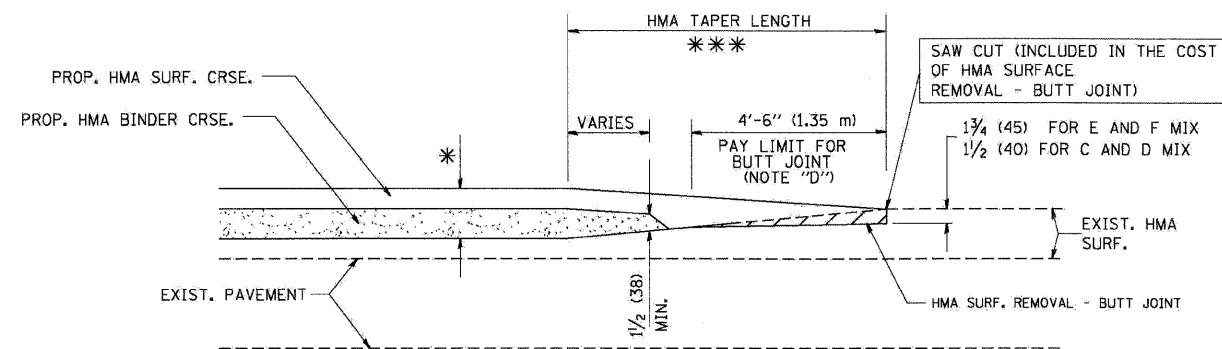
MILLED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

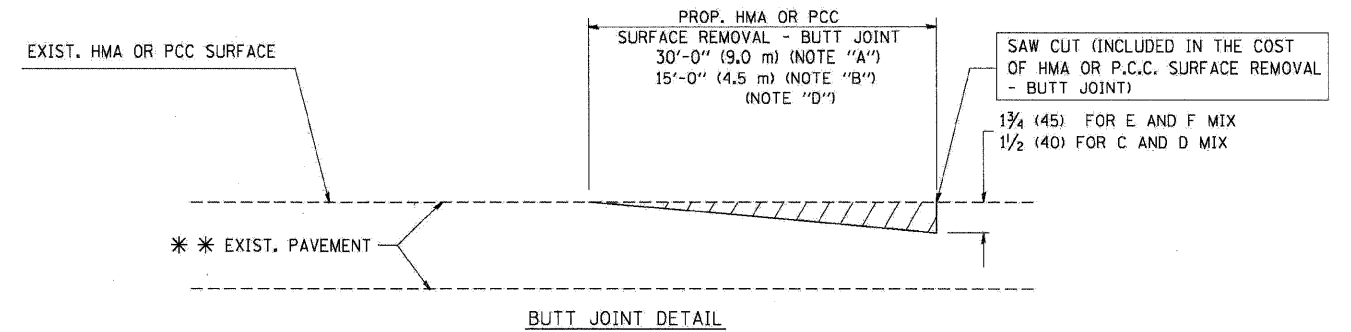


HMA CONSTRUCTED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

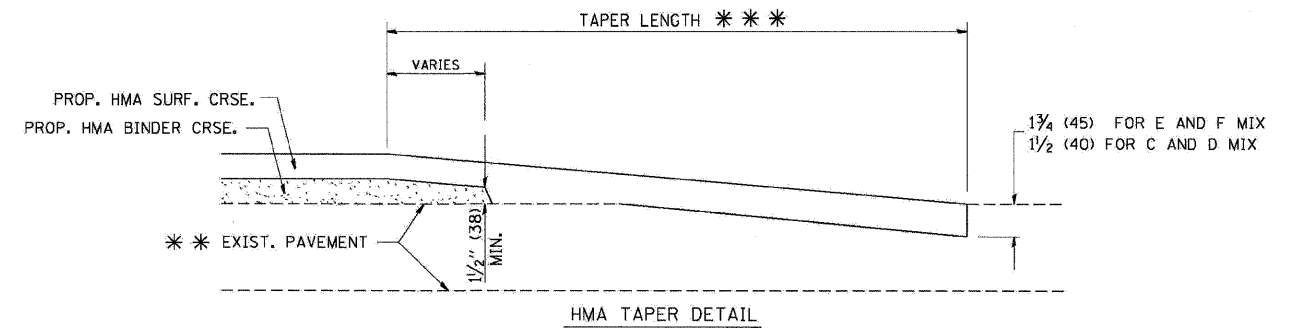
OPTION 2  
TYPICAL TEMPORARY RAMP



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 -
...propin-ABC_C3_D1_BD-32.dgn	DRAWN - TMB	REVISED -
USER NAME = jmajewski	CHECKED - JMM	REVISED -
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -

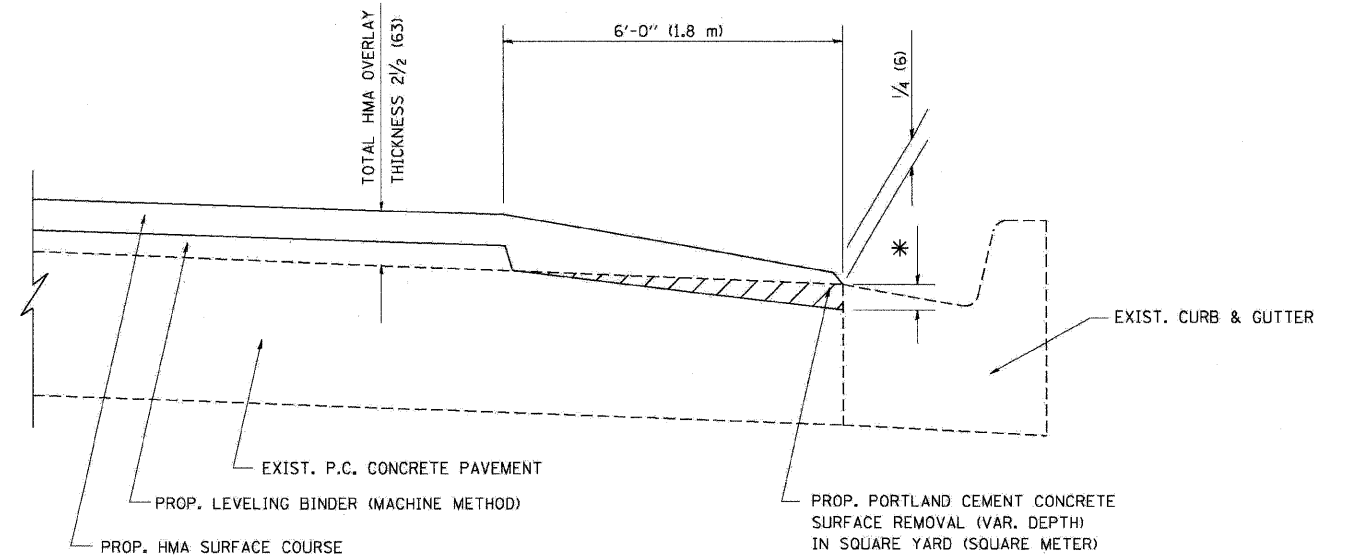
benesch

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BUTT JOINTS AND HMA TAPER

SCALE: N.T.S. SHEET NO. 3 OF 20 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	199
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60G53	



HMA TAPER AT  
EDGE OF P.C.C PAVEMENT

HMA SURFACE	THICKNESS	LEVELING BINDER THICKNESS	* MILLING AT GUTTER FLAG
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.

FILE NAME =	DESIGNED - AJP	REVISED -
...\\p1n.abc.c3.01.80-33.dgn	DRAWN - TMB	REVISED -
USER NAME = jmojewski	CHECKED - JMM	REVISED -
PLOT DATE = 1/25/2013	DATE - 1/25/10	REVISED -

**benesch**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HMA TAPER AT EDGE OF PCC PAVEMENT

SCALE: N.T.S. SHEET NO. 4 OF 20 SHEETS STA. TO STA.

F.A.I. RITE:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(2727, ETC., 3131)RS-7	COOK	216	200
FED. ROAD DIST. NO. (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 60G53	