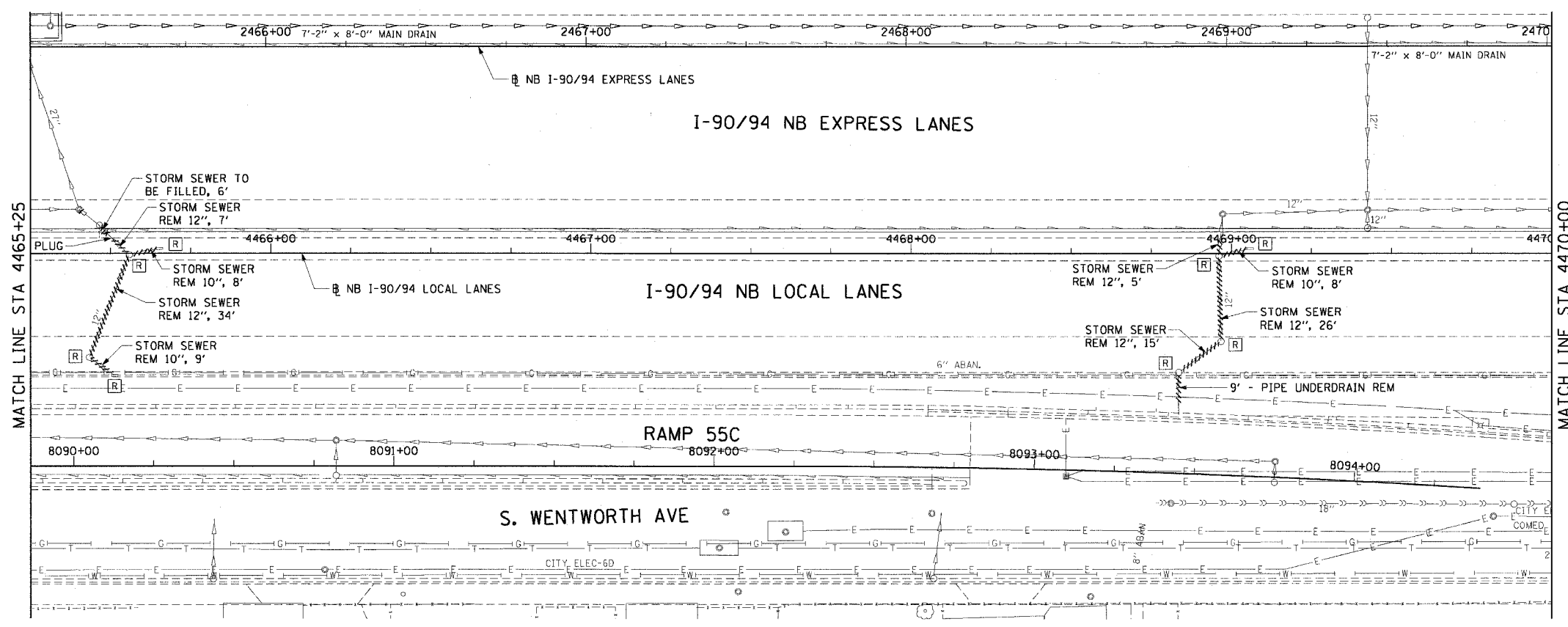
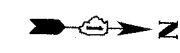
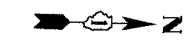


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	101
STA. 4465+25		TO STA. 4470+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



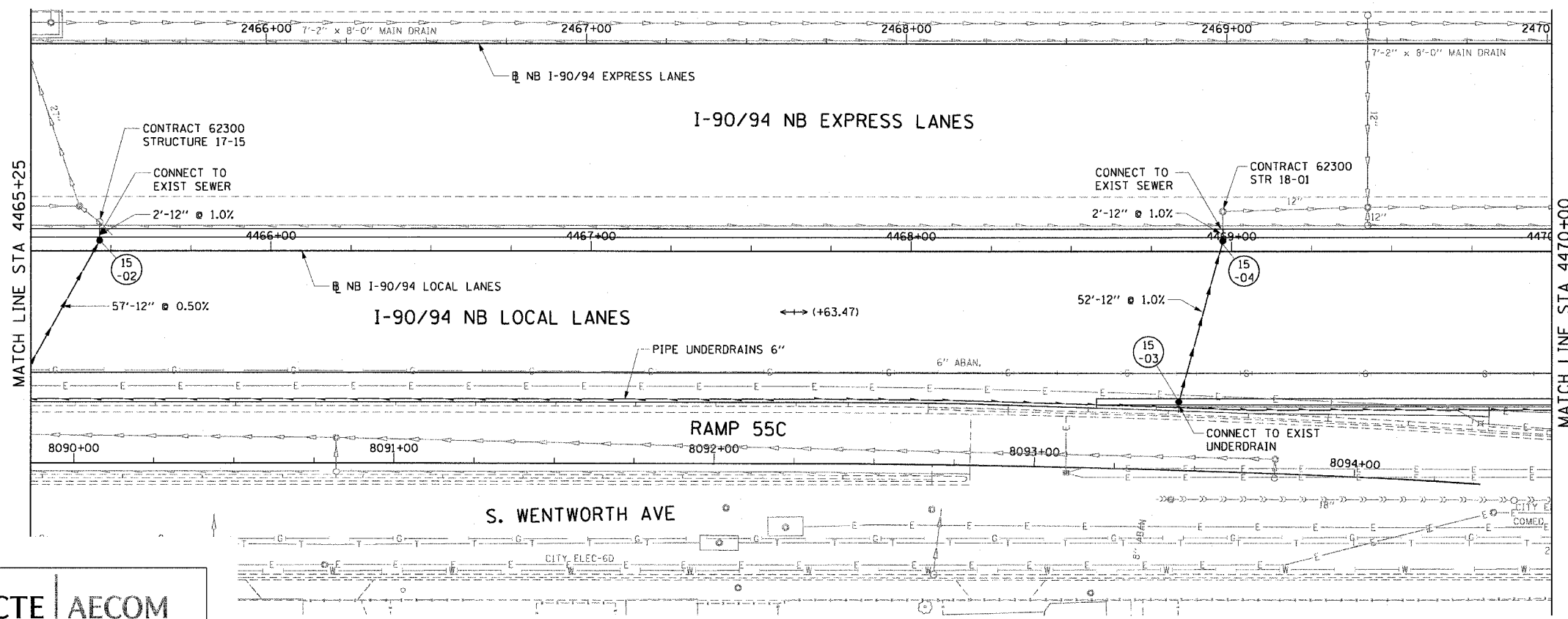
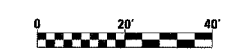
- LEGEND: EXISTING**
- INLET
  - CATCH BASIN
  - MANHOLE
  - STORM SEWER
  - COMBINED SEWER
  - PIPE UNDERDRAIN
  - [R] STRUCTURE TO BE REMOVED
  - [AD] STRUCTURE TO BE ADJUSTED
  - //// STORM SEWER REMOVAL
  - //// COMBINED SEWER REMOVAL
  - //// WATER MAIN REMOVAL
  - \*\*\*\*\* ABANDON EXISTING PIPE

**EXISTING CONDITIONS AND REMOVAL**  
**PROPOSED IMPROVEMENTS**



- LEGEND: PROPOSED**
- INLET
  - CATCH BASIN
  - MANHOLE
  - STORM SEWER
  - PIPE UNDERDRAIN
  - PROPOSED SWALE
  - HIGH POINT
  - LOW POINT
  - (XX-01) PROPOSED STRUCTURE

- NOTES:**
- SEE DRAINAGE SCHEDULES FOR STRUCTURE, PIPE AND UNDERDRAIN INFORMATION.
  - THE LOCATION OF DRAINAGE STRUCTURES AND PIPES CONSTRUCTED IN PREVIOUS CONTRACTS IS BASED OFF OF CONTRACT PLAN DRAWINGS. THE CONTRACTOR MUST VERIFY LIMITS OF PREVIOUS CONSTRUCTION IN THE FIELD.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

**DRAINAGE AND UTILITY PLANS**

SCALE: 1"=20'  
DATE: June 9, 2006

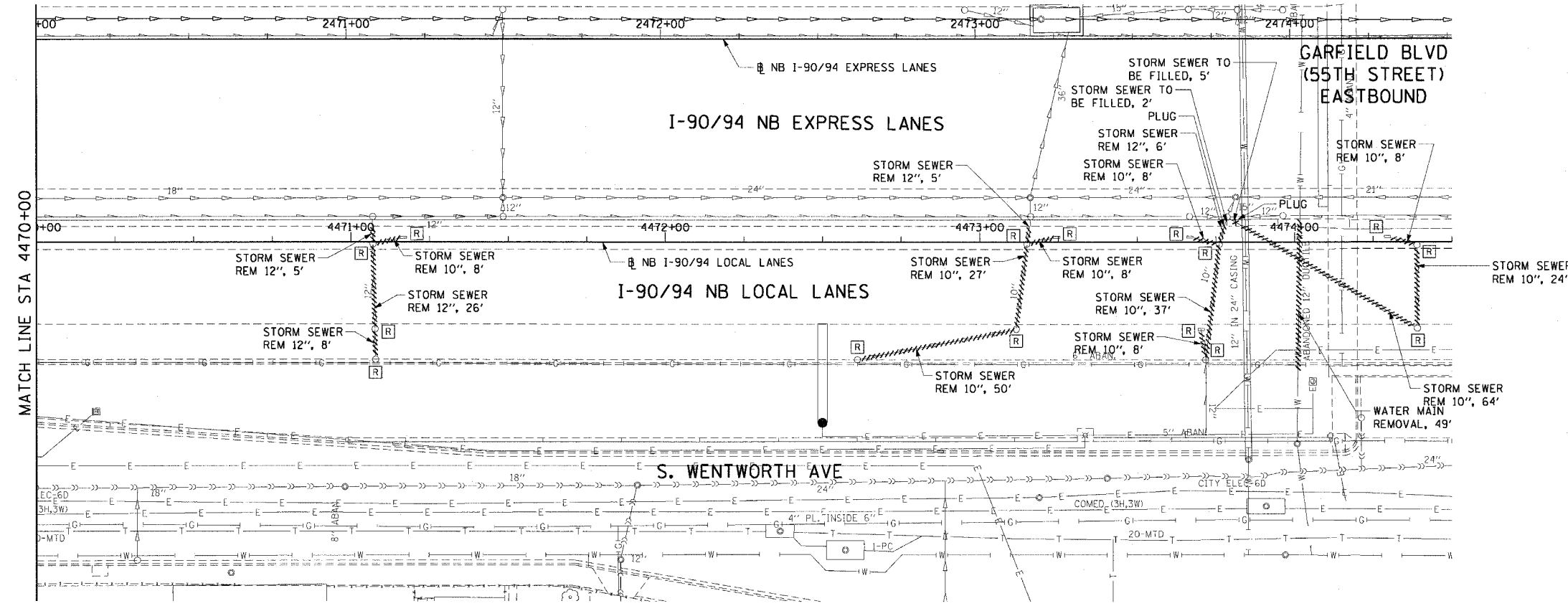
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CTE | AECOM

DU-15

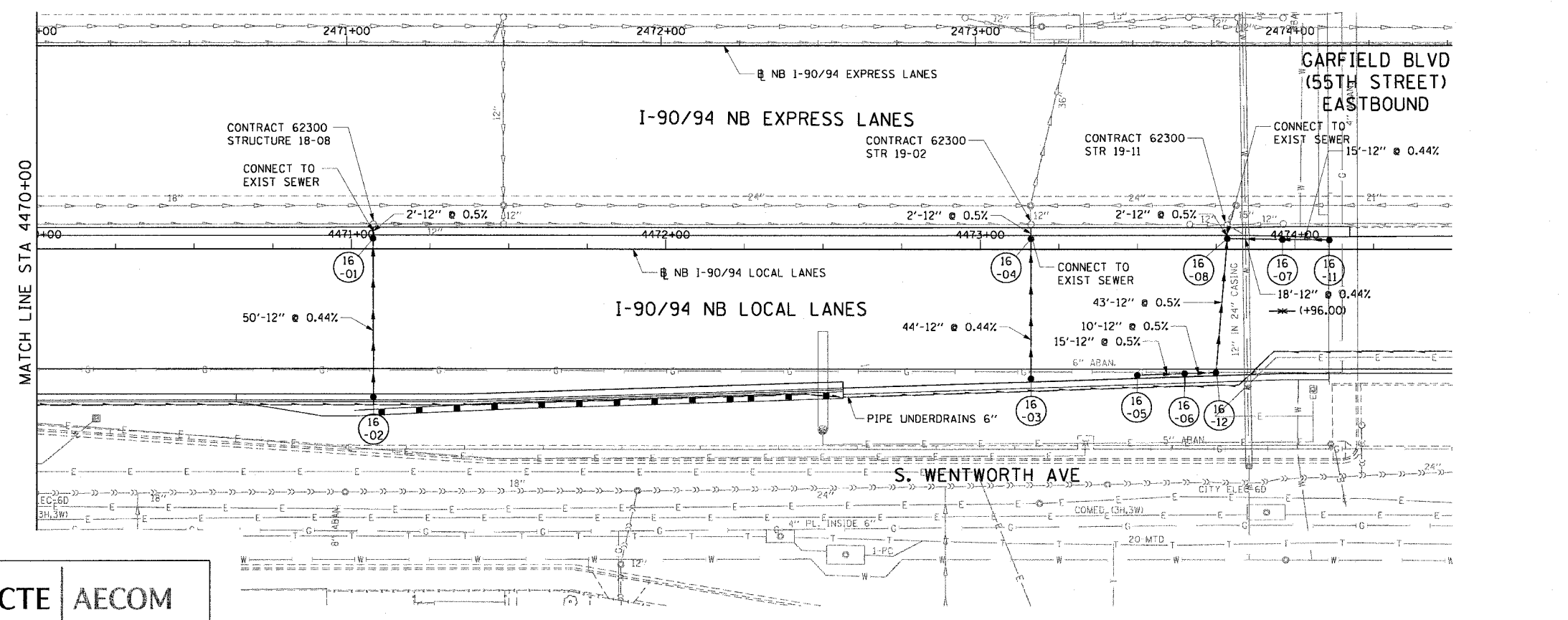
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F.A.I. RTE. 90/94	SECTION	COUNTY COOK	TOTAL SHEETS 312	SHEET NO. 102
STA. 4470+00		TO STA. 4474+50		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
62301 (2021-922 PT2 ETC 2324.6-1P) R-10				



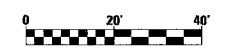
- LEGEND: EXISTING**
- INLET
  - CATCH BASIN
  - MANHOLE
  - STORM SEWER
  - COMBINED SEWER
  - PIPE UNDERDRAIN
  - [R] STRUCTURE TO BE REMOVED
  - [ADJ] STRUCTURE TO BE ADJUSTED
  - //// STORM SEWER REMOVAL
  - //// COMBINED SEWER REMOVAL
  - //// WATER MAIN REMOVAL
  - \*\*\*\*\* ABANDON EXISTING PIPE

**EXISTING CONDITIONS AND REMOVAL**  
**PROPOSED IMPROVEMENTS**



- LEGEND: PROPOSED**
- INLET
  - CATCH BASIN
  - MANHOLE
  - STORM SEWER
  - PIPE UNDERDRAIN
  - PROPOSED SWALE
  - ↔ HIGH POINT
  - ↔ LOW POINT
  - ⊙(XX-01) PROPOSED STRUCTURE

- NOTES:**
- SEE DRAINAGE SCHEDULES FOR STRUCTURE, PIPE AND UNDERDRAIN INFORMATION.
  - THE LOCATION OF DRAINAGE STRUCTURES AND PIPES CONSTRUCTED IN PREVIOUS CONTRACTS IS BASED OFF OF CONTRACT PLAN DRAWINGS. THE CONTRACTOR MUST VERIFY LIMITS OF PREVIOUS CONSTRUCTION IN THE FIELD.



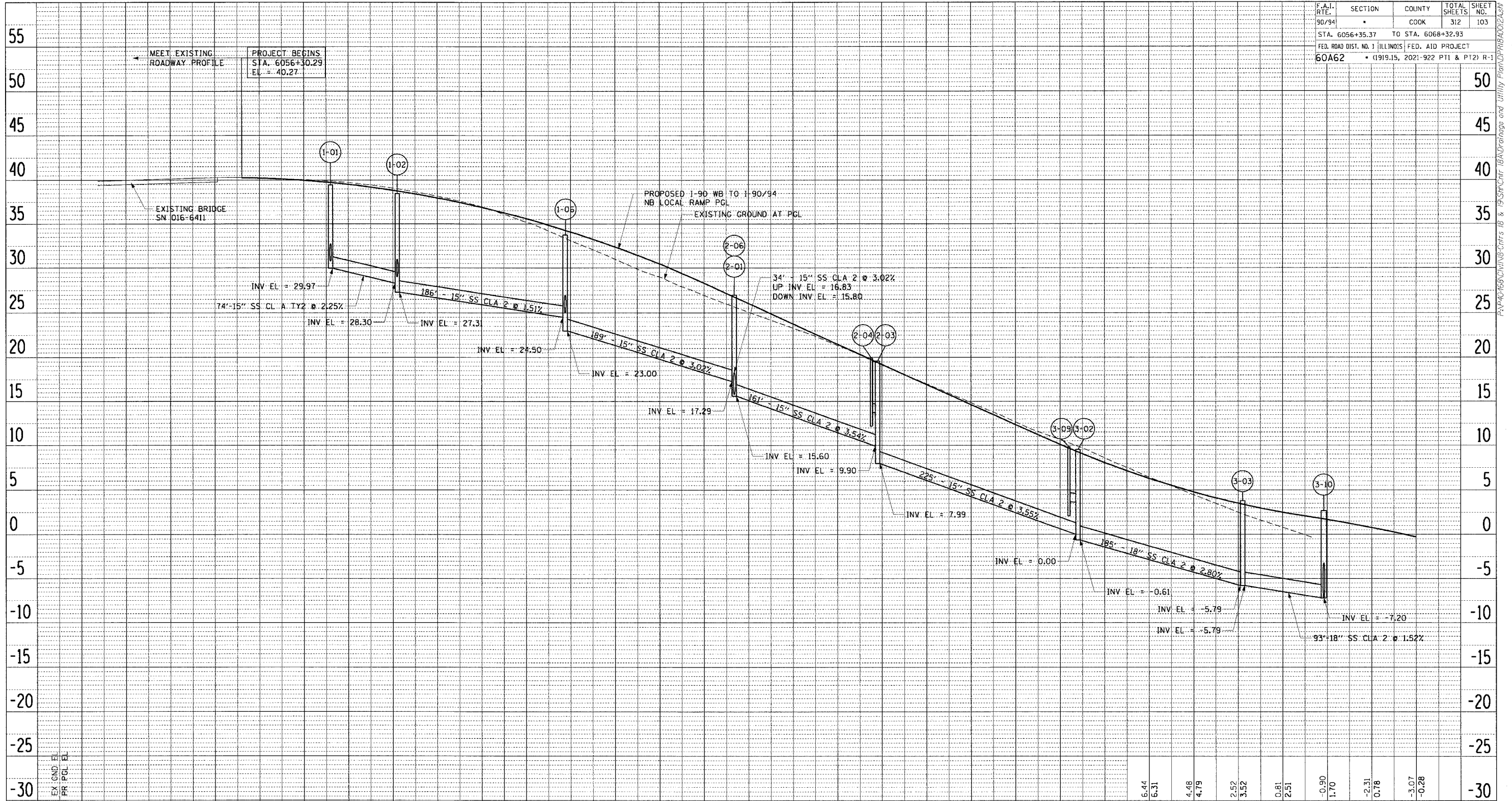
REVISIONS	
NAME	DATE

DU-16  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
GARFIELD BLVD TO 31ST STREET (NB LOCAL LANES)  
**DRAINAGE AND UTILITY PLANS**  
SCALE: 1"=20'  
DATE: June 9, 2006  
DRAWN BY: MDD  
CHECKED BY: MS

CTE | AECOM

PAV04068CIV18-cntrs 18 & 19.dwg 18drainage and utility plans/6/9/06/2006 6/25/2006

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	312	103
STA. 6056+35.37 TO STA. 6068+32.93				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 (1919.15, 2021-922 PT1 & PT2) R-1				



PLAN	SURVEYED	BY	DATE
NOTE BOOK	ALIGNED	CHECKED	
NO.	NO.	NO.	

PLAN	SURVEYED	BY	DATE
NOTE BOOK	ALIGNED	CHECKED	
NO.	NO.	NO.	

6055+00	39.98	40.14	40.27	6056+00	41.27	40.23	6057+00	40.06	39.98	39.73	39.53	6058+00	39.11	38.86	38.19	37.98	6059+00	36.97	36.90	35.18	35.60	6060+00	33.11	34.10	30.89	32.38	6061+00	29.02	30.46	26.97	28.32	6062+00	25.07	26.04	23.30	23.76	6063+00	21.35	21.48	19.15	19.20	6064+00	17.01	16.92	14.86	14.64	6065+00	12.67	12.35	10.65	10.11	6066+00	8.61	8.08
---------	-------	-------	-------	---------	-------	-------	---------	-------	-------	-------	-------	---------	-------	-------	-------	-------	---------	-------	-------	-------	-------	---------	-------	-------	-------	-------	---------	-------	-------	-------	-------	---------	-------	-------	-------	-------	---------	-------	-------	-------	-------	---------	-------	-------	-------	-------	---------	-------	-------	-------	-------	---------	------	------

6.44	6.31	4.48	4.79	2.52	3.52	0.81	2.51	-0.90	1.70	-2.31	0.78	-3.07	-0.28		
6067+00												6068+00		6069+00	

DRNPRO-1

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

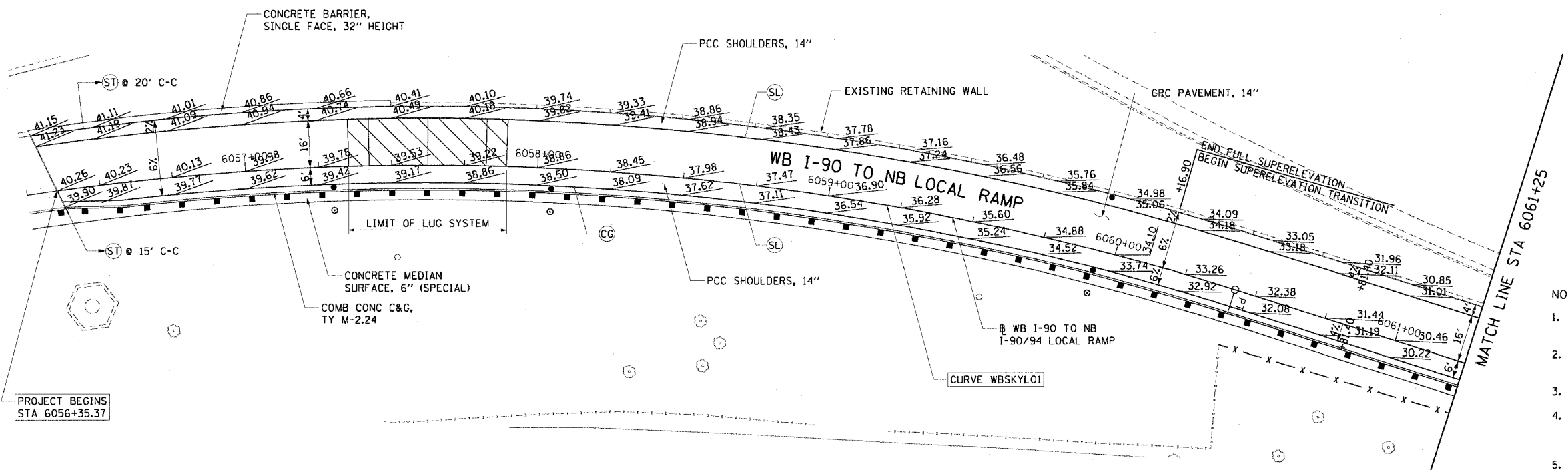
PROPOSED DRAINAGE PROFILE  
 WB 1-90 TO NB I-90/94 LOCAL RAMP

SCALE: V: 1"=50' H: 1"=5'  
 DATE: June 9, 2006  
 DRAWN BY: NJH  
 CHECKED BY: XXX

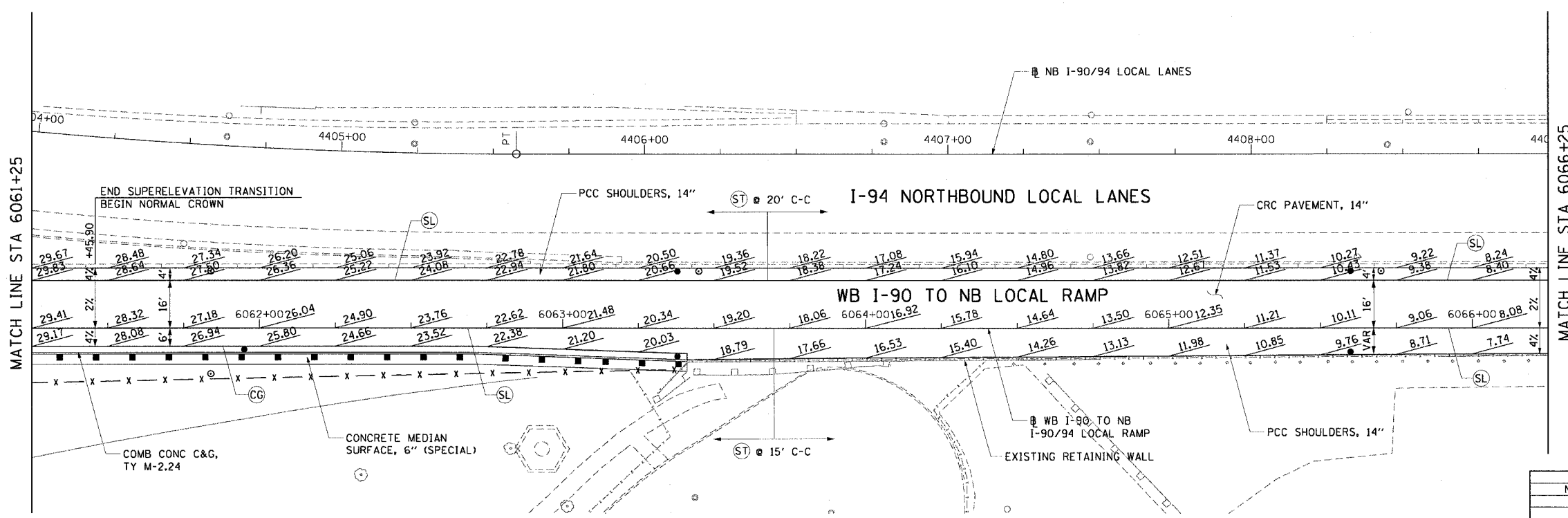


RAY-0165/ARCHIVE/CATS 18 & 19/CONTR 18/Drainage and Utility Plan/UPR/BA02/25/06

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	104
STA. 6056+35.37 TO STA. 6066+25				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



- NOTES:
1. SEE ALIGNMENT AND TIES SHEETS FOR CURVE INFORMATION.
  2. SEE ROADWAY PLAN SHEETS FOR BEGINNING AND END TAPER STATIONS AND TAPER RATES.
  3. PAVEMENT ELEVATIONS ARE SHOWN AT 25' INTERVALS.
  4. AT THE PROJECT LIMITS, THE CONTRACTOR SHALL MEET THE EXISTING ROADWAY ELEVATIONS OF CONTRACT 62589 AT THAT STATION.
  5. SEE ROADWAY DETAILS FOR LUG SYSTEM COMPLETE 16' DETAILS.
  6. SEE ROADWAY DETAILS FOR THE TYING OF THE BARRIER BASE TO THE PCC SHOULDER.



- LEGEND:
- ⊙ LONGITUDINAL CURB AND GUTTER JOINT - NO. 6 EPOXY COATED TIE BARS, 24" LONG AT 24" C-C
  - ⊙ LONGITUDINAL SAWED JOINT - NO. 6 EPOXY COATED TIE BARS, 30" LONG AT 30" C-C
  - ⊙ LONGITUDINAL CONSTRUCTION JOINT - NO. 8 EPOXY COATED TIE BARS, 24" LONG AT 24" C-C
  - ⊙ LONGITUDINAL SHOULDER CONSTRUCTION JOINT - NO. 8 EPOXY COATED TIE BARS, 30" LONG AT 24" C-C
  - ⊙ TRANSVERSE SHOULDER CONTRACTION JOINT - SPACED 15' C-C ALONG OUTSIDE SHOULDER - SPACED 20' C-C AT ALL OTHER LOCATIONS
  - ▨ LUG SYSTEM

CTE | AECOM

REVISIONS	
NAME	DATE

PJE-1

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

PAVEMENT JOINT AND ELEVATION PLANS

SCALE: 1"=20'  
DATE: June 9, 2006

DRAWN BY: PHP  
CHECKED BY: NJH

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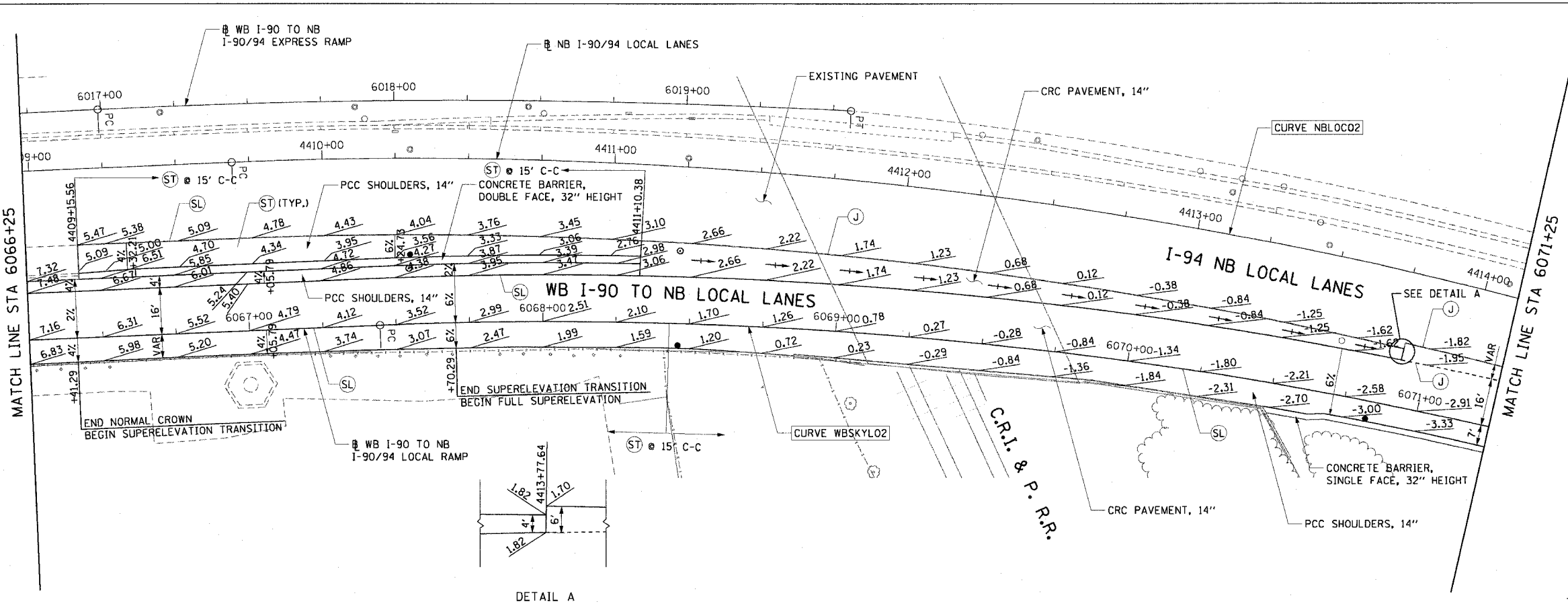
F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	312	105
STA. 6066+25		TO STA. 4419+00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
60A62		(1919.15, 2021-922 PT1 & PT2) R-1		

**NOTES:**

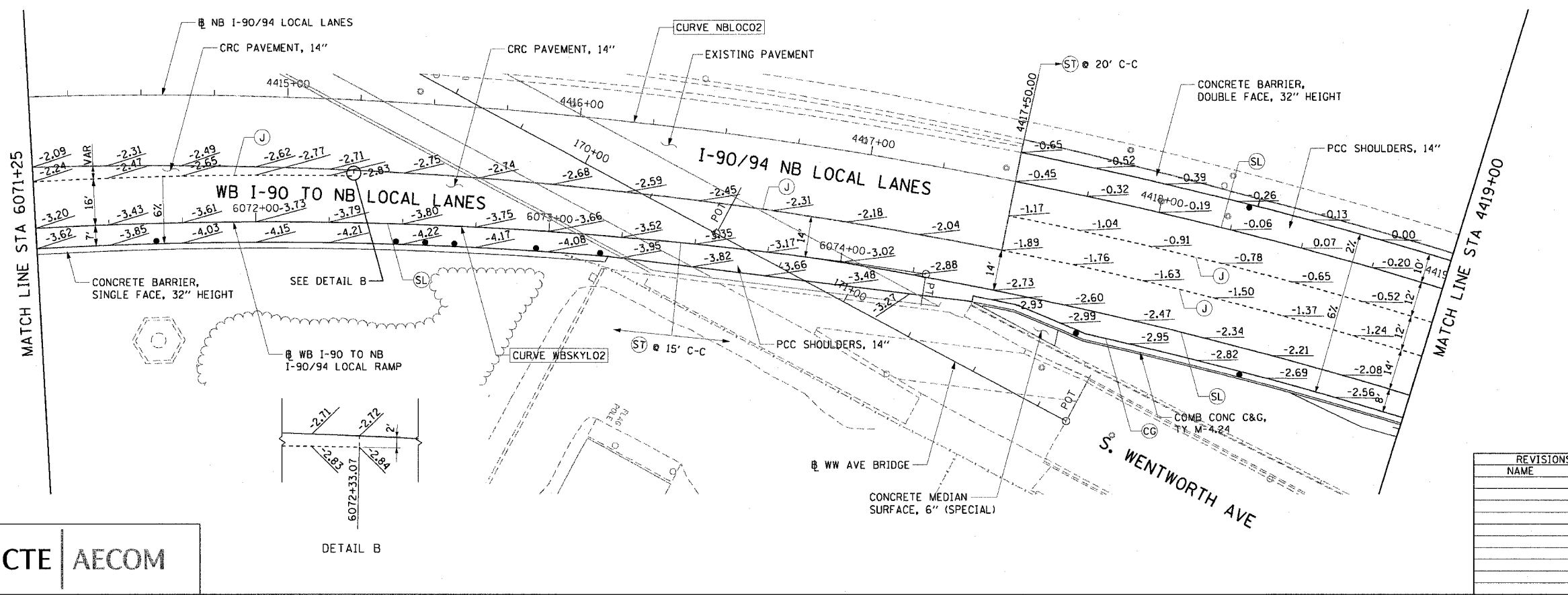
- SEE ALIGNMENT AND TIES SHEETS FOR CURVE INFORMATION.
- SEE ROADWAY PLAN SHEETS FOR BEGINNING AND END TAPER STATIONS AND TAPER RATES.
- PAVEMENT ELEVATIONS ARE SHOWN AT 25' INTERVALS.
- SEE ROADWAY DETAILS FOR THE TYING OF THE BARRIER BASE TO THE PCC SHOULDER.
- TRANSVERSE SHOULDER CONTRACTION JOINT SPACING SHALL BE COORDINATED WITH THE JOINT SPACING OF CONTRACT 62589
- TRANSITION FROM 4% SHOULDER SLOPE TO 1.5% GORE SLOPE AT A DISTANCE OF 25' FROM THE START OF THE GORE.

**LEGEND:**

- ⊙ LONGITUDINAL CURB AND GUTTER JOINT - NO. 6 EPOXY COATED TIE BARS, 24" LONG AT 24" C-C
- ⊙ LONGITUDINAL SAWED JOINT - NO. 6 EPOXY COATED TIE BARS, 30" LONG AT 30" C-C  
LONGITUDINAL CONSTRUCTION JOINT - NO. 8 EPOXY COATED TIE BARS, 24" LONG AT 24" C-C
- ⊙ LONGITUDINAL SHOULDER CONSTRUCTION JOINT - NO. 8 EPOXY COATED TIE BARS, 30" LONG AT 24" C-C
- ⊙ TRANSVERSE SHOULDER CONTRACTION JOINT  
- SPACED 15' C-C ALONG OUTSIDE SHOULDER  
- SPACED 20' C-C AT ALL OTHER LOCATIONS
- ↔ SWALE

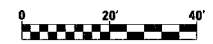


DETAIL A



DETAIL B

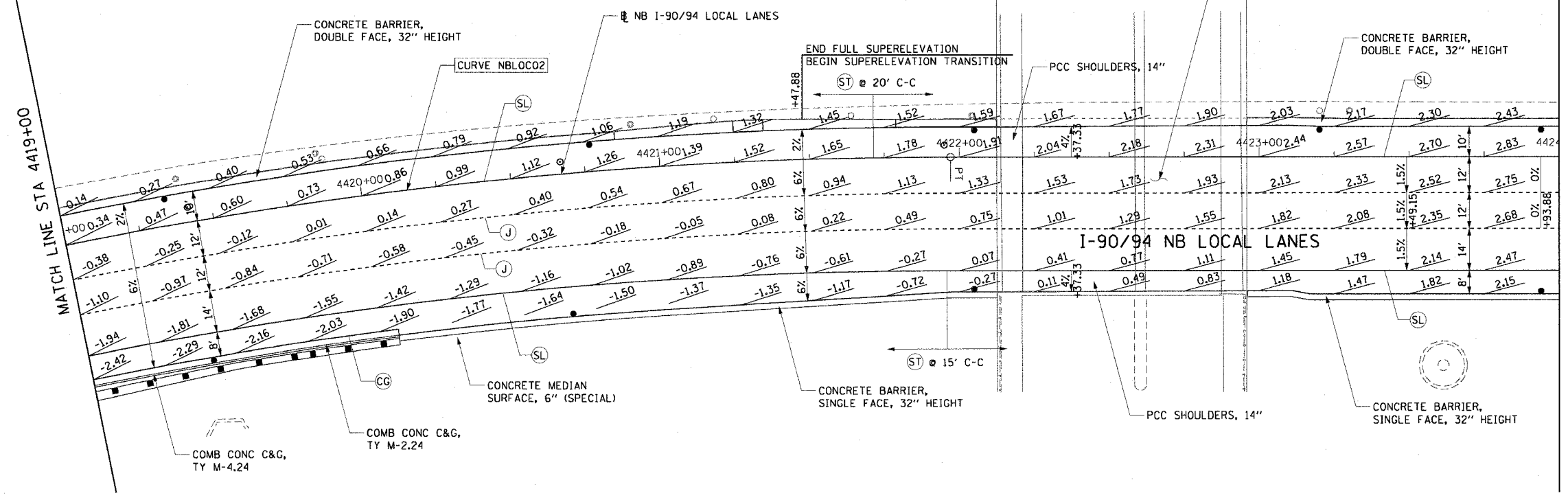
SWALE ELEVATIONS		
STATION	OFFSET	ELEVATION
6068+50.00	21.72' LT	2.58
	+75.00	21.32' LT 2.15
6069+00.00	20.91' LT	1.68
	+25.00	20.52' LT 1.17
	+50.00	20.13' LT 0.63
6070+00.00	19.74' LT	0.08
	+75.00	19.36' LT -0.42
	+25.00	18.98' LT -0.88
	+50.00	18.61' LT -1.28
	+75.00	18.23' LT -1.64



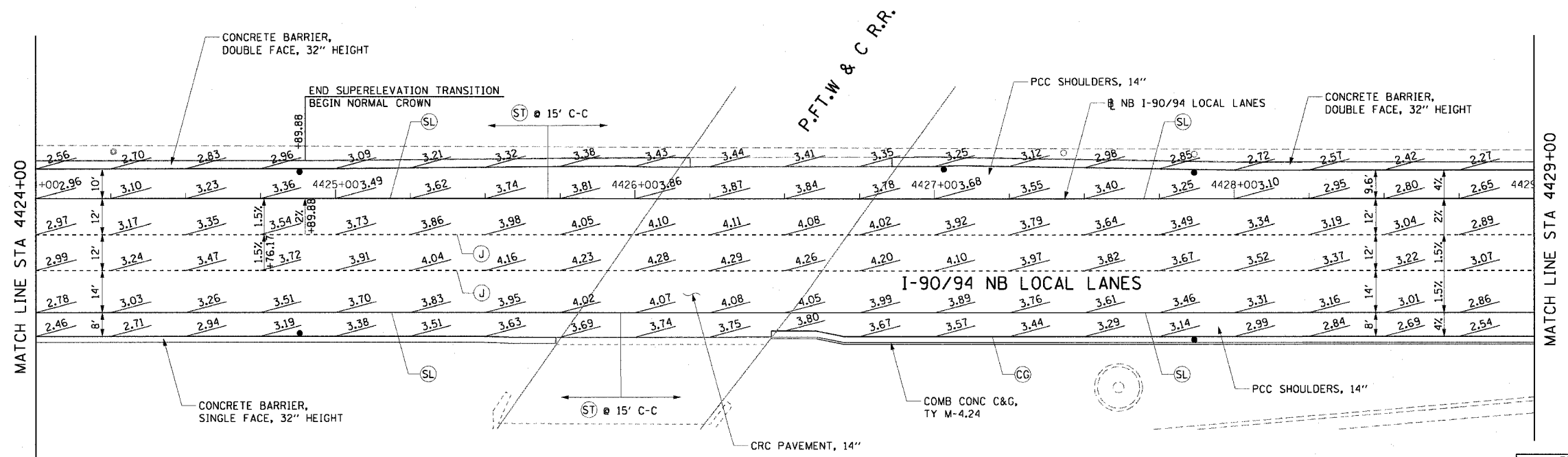
REVISIONS	
NAME	DATE

PJE-2  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
**PAVEMENT JOINT AND ELEVATION PLANS**  
SCALE: 1"=20'  
DATE: June 9, 2006  
DRAWN BY: PHP  
CHECKED BY: NJH

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	106
STA. 4419+00		TO STA. 4429+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



- NOTES:
- SEE ALIGNMENT AND TIES SHEETS FOR CURVE INFORMATION.
  - SEE ROADWAY PLAN SHEETS FOR BEGINNING AND END TAPER STATIONS AND TAPER RATES.
  - PAVEMENT ELEVATIONS ARE SHOWN AT 25' INTERVALS.
  - SEE ROADWAY DETAILS FOR THE TYING OF THE BARRIER BASE TO THE PCC SHOULDER.
- LEGEND:
- CG LONGITUDINAL CURB AND GUTTER JOINT - NO. 6 EPOXY COATED TIE BARS, 24" LONG AT 24" C-C
  - J LONGITUDINAL SAWED JOINT - NO. 6 EPOXY COATED TIE BARS, 30" LONG AT 30" C-C
  - LONGITUDINAL CONSTRUCTION JOINT - NO. 8 EPOXY COATED TIE BARS, 24" LONG AT 24" C-C
  - SL LONGITUDINAL SHOULDER CONSTRUCTION JOINT - NO. 8 EPOXY COATED TIE BARS, 30" LONG AT 24" C-C
  - ST TRANSVERSE SHOULDER CONTRACTION JOINT - SPACED 15' C-C ALONG OUTSIDE SHOULDER - SPACED 20' C-C AT ALL OTHER LOCATIONS



REVISIONS	
NAME	DATE

PJE-3

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

PAVEMENT JOINT AND ELEVATION PLANS

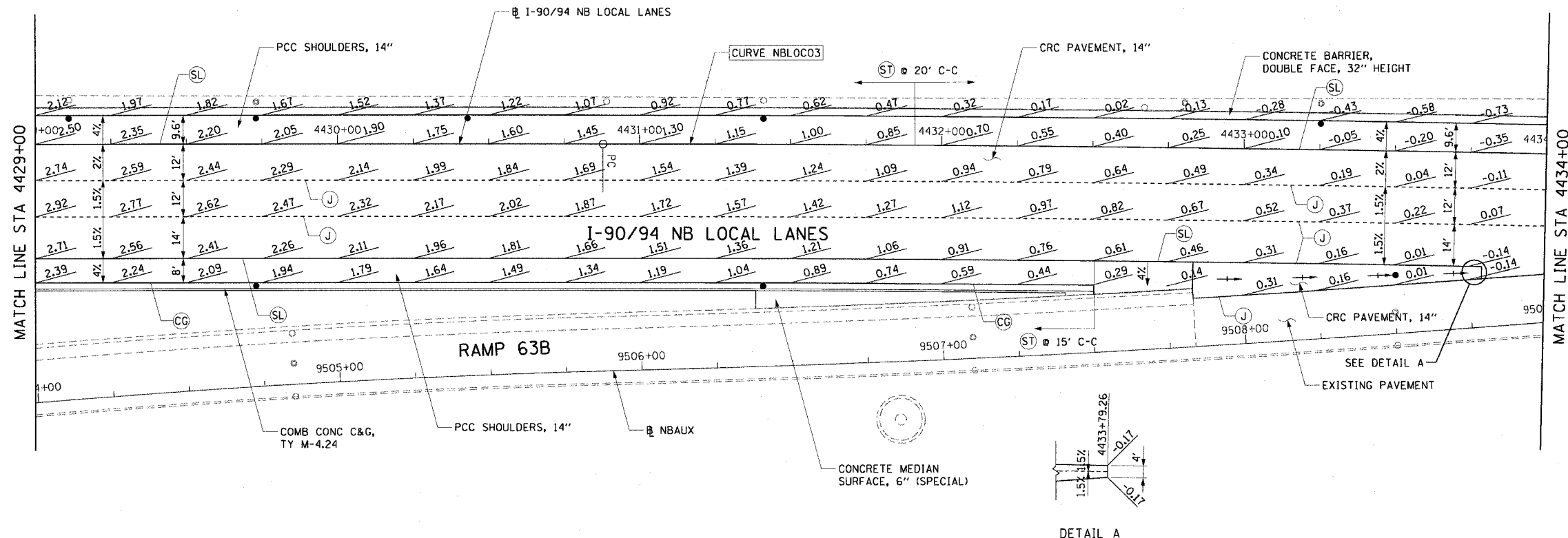
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DATE: June 9, 2006

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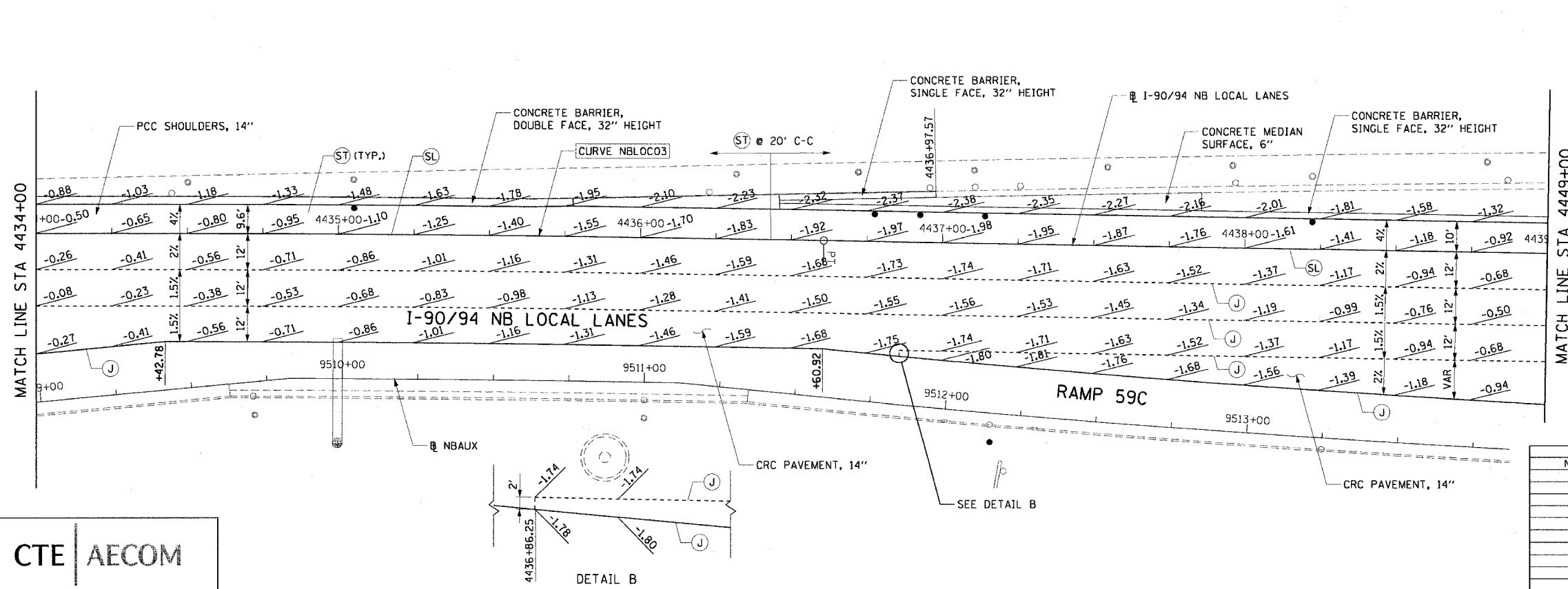
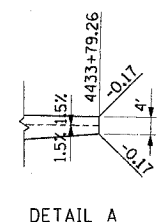
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	107
STA. 4429+00		TO STA. 4439+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



- NOTES:
- SEE ALIGNMENT AND TIES SHEETS FOR CURVE INFORMATION.
  - SEE ROADWAY PLAN SHEETS FOR BEGINNING AND END TAPER STATIONS AND TAPER RATES.
  - PAVEMENT ELEVATIONS ARE SHOWN AT 25' INTERVALS.
  - SEE ROADWAY DETAILS FOR THE TYING OF THE BARRIER BASE TO THE PCC SHOULDER.
  - TRANSITION FROM 4% SHOULDER SLOPE TO 1.5% GORE SLOPE AT A DISTANCE OF 25' FROM THE START OF THE GORE.

- LEGEND:
- CG LONGITUDINAL CURB AND GUTTER JOINT - NO. 6 EPOXY COATED TIE BARS, 24" LONG AT 24" C-C
  - J LONGITUDINAL SAWED JOINT - NO. 6 EPOXY COATED TIE BARS, 30" LONG AT 30" C-C  
LONGITUDINAL CONSTRUCTION JOINT - NO. 8 EPOXY COATED TIE BARS, 24" LONG AT 24" C-C
  - SL LONGITUDINAL SHOULDER CONSTRUCTION JOINT - NO. 8 EPOXY COATED TIE BARS, 30" LONG AT 24" C-C
  - ST TRANSVERSE SHOULDER CONTRACTION JOINT  
- SPACED 15' C-C ALONG OUTSIDE SHOULDER  
- SPACED 20' C-C AT ALL OTHER LOCATIONS
  - SWALE



SWALE ELEVATIONS		
STATION	OFFSET	ELEVATION
4432+83.54	44.01' RT	0.32
4433+00.00	43.37' RT	0.23
+25.00	42.36' RT	0.09
+50.00	41.30' RT	-0.04
+75.00	40.19' RT	-0.17
4433+79.26	41.00' RT	-0.19

REVISIONS	
NAME	DATE

PJE-4

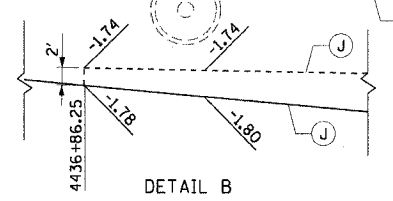
ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

PAVEMENT JOINT AND ELEVATION PLANS

SCALE: 1"=20'  
DATE: June 9, 2006

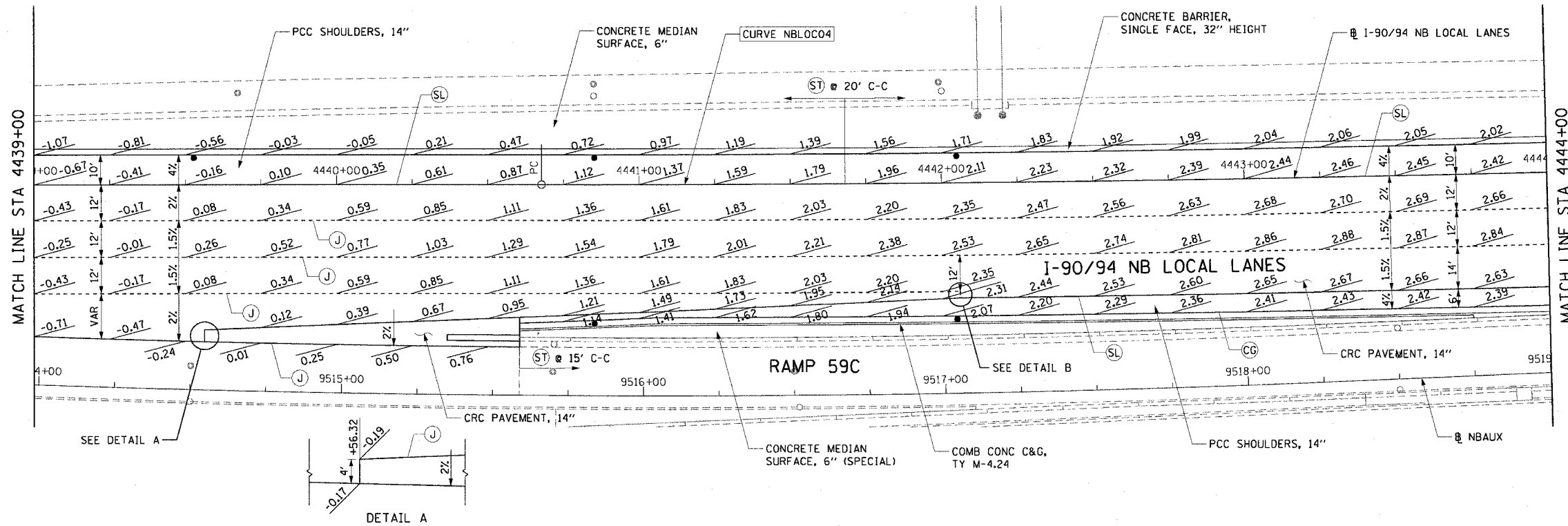
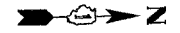
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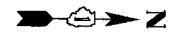
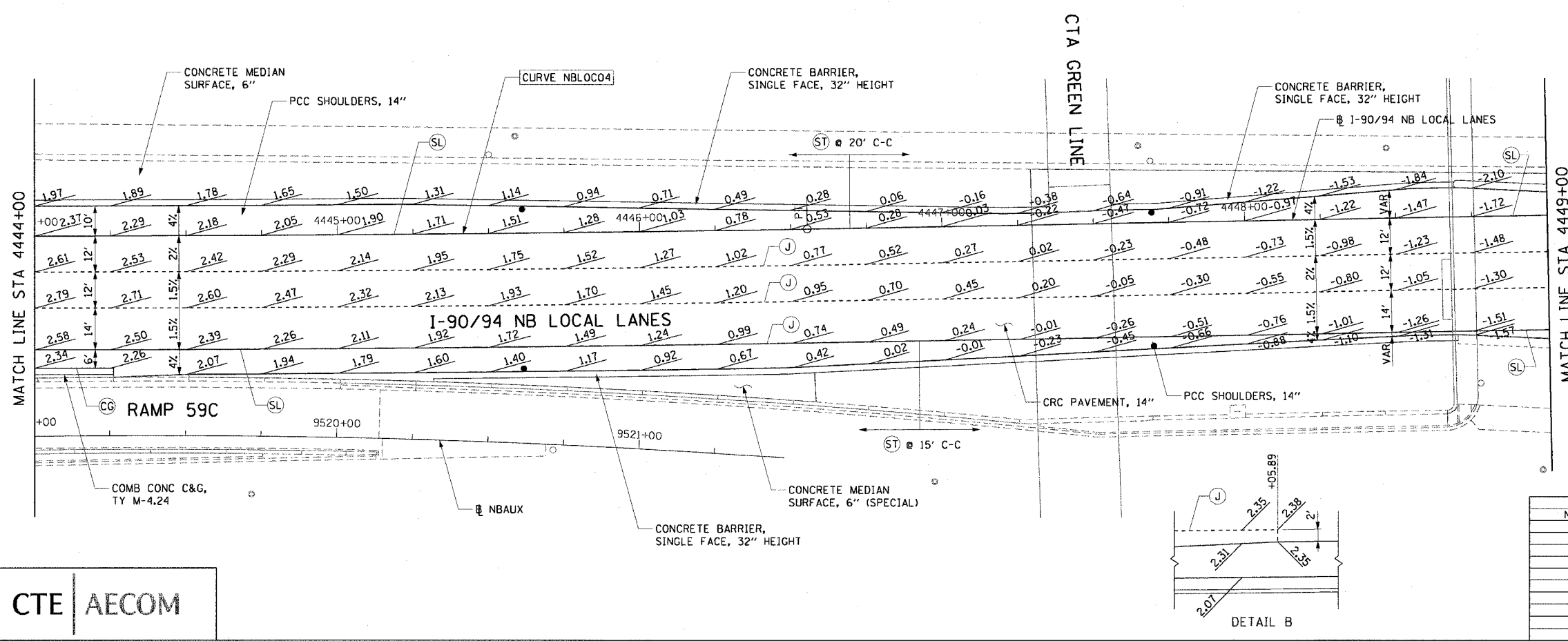
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	108
STA. 4439+00		TO STA. 4449+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



- NOTES:
- SEE ALIGNMENT AND TIES SHEETS FOR CURVE INFORMATION.
  - SEE ROADWAY PLAN SHEETS FOR BEGINNING AND END TAPER STATIONS AND TAPER RATES.
  - PAVEMENT ELEVATIONS ARE SHOWN AT 25' INTERVALS.
  - SEE ROADWAY DETAILS FOR THE TYING OF THE BARRIER BASE TO THE PCC SHOULDER.
  - TRANSITION FROM 4% SHOULDER SLOPE TO 1.5% GORE SLOPE AT A DISTANCE OF 25' FROM THE START OF THE GORE.

- LEGEND:
- (CG) LONGITUDINAL CURB AND GUTTER JOINT - NO. 6 EPOXY COATED TIE BARS, 24" LONG AT 24" C-C
  - (J) LONGITUDINAL SAWED JOINT - NO. 6 EPOXY COATED TIE BARS, 30" LONG AT 30" C-C  
LONGITUDINAL CONSTRUCTION JOINT - NO. 8 EPOXY COATED TIE BARS, 24" LONG AT 24" C-C
  - (SL) LONGITUDINAL SHOULDER CONSTRUCTION JOINT - NO. 8 EPOXY COATED TIE BARS, 30" LONG AT 24" C-C
  - (ST) TRANSVERSE SHOULDER CONTRACTION JOINT  
- SPACED 15' C-C ALONG OUTSIDE SHOULDER  
- SPACED 20' C-C AT ALL OTHER LOCATIONS



REVISIONS	
NAME	DATE

PJE-5

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

PAVEMENT JOINT AND ELEVATION PLANS

SCALE: 1"=20'  
DATE: June 9, 2006

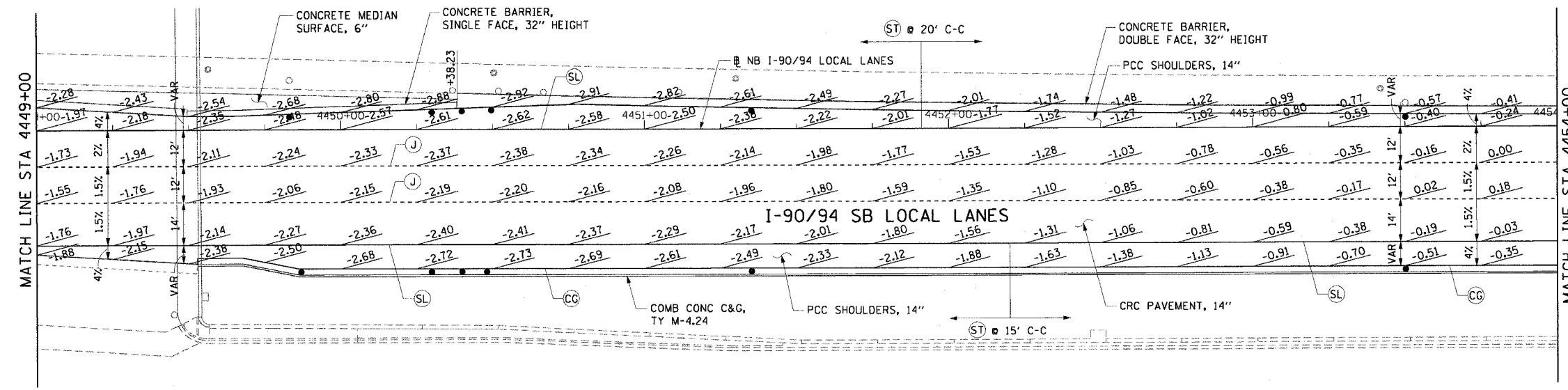
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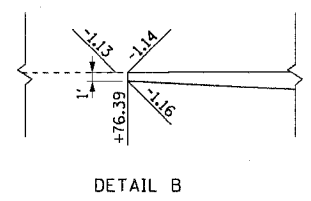
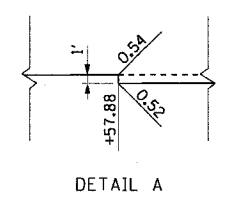
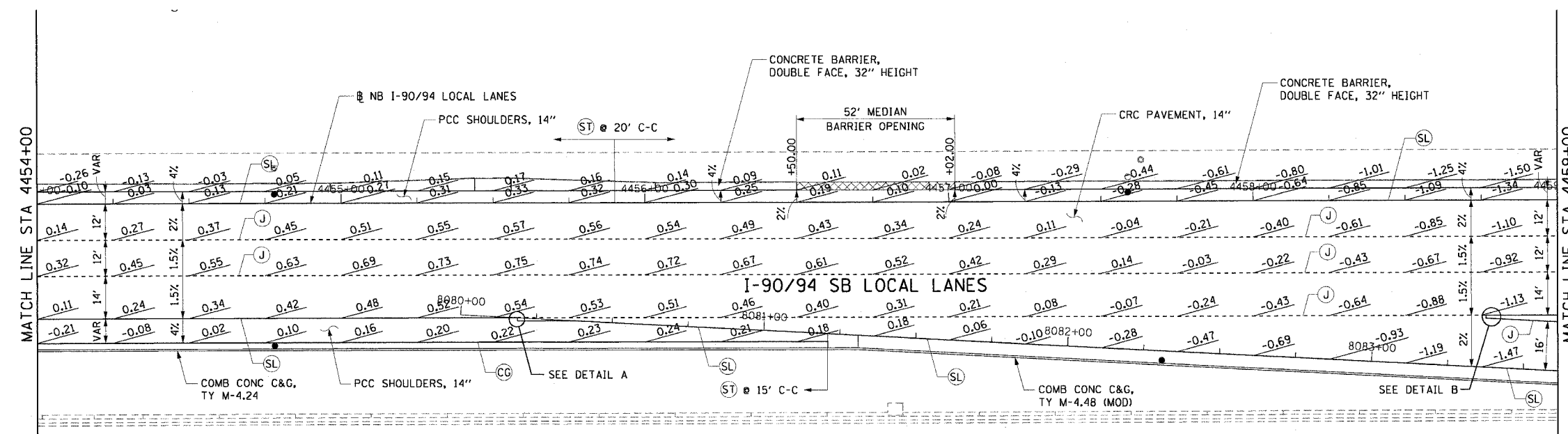
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	312	109
STA. 4449+00		TO STA. 4459+00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
60A62		• (1919.15, 2021-922 PT1 & PT2) R-1		

W. 59th ST



- NOTES:
- SEE ALIGNMENT AND TIES SHEETS FOR CURVE INFORMATION.
  - SEE ROADWAY PLAN SHEETS FOR BEGINNING AND END TAPER STATIONS AND TAPER RATES.
  - PAVEMENT ELEVATIONS ARE SHOWN AT 25' INTERVALS.
  - SEE ROADWAY DETAILS FOR THE TYING OF THE BARRIER BASE TO THE PCC SHOULDER.
  - AT THE MEDIAN BARRIER OPENING, THE ELEVATION OF THE LOCAL LANE EDGE OF SHOULDER SHALL MATCH THE ELEVATION OF THE EXPRESS LANE EDGE OF SHOULDER.

- LEGEND:
- CG LONGITUDINAL CURB AND CUTTER JOINT - NO. 6 EPOXY COATED TIE BARS, 24" LONG AT 24" C-C
  - J LONGITUDINAL SAWED JOINT - NO. 6 EPOXY COATED TIE BARS, 30" LONG AT 30" C-C  
LONGITUDINAL CONSTRUCTION JOINT - NO. 8 EPOXY COATED TIE BARS, 24" LONG AT 24" C-C
  - SL LONGITUDINAL SHOULDER CONSTRUCTION JOINT - NO. 8 EPOXY COATED TIE BARS, 30" LONG AT 24" C-C
  - ST TRANSVERSE SHOULDER CONTRACTION JOINT  
- SPACED 15' C-C ALONG OUTSIDE SHOULDER  
- SPACED 20' C-C AT ALL OTHER LOCATIONS



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REVISIONS	NAME	DATE

PJE-6

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

PAVEMENT JOINTING AND ELEVATION PLANS

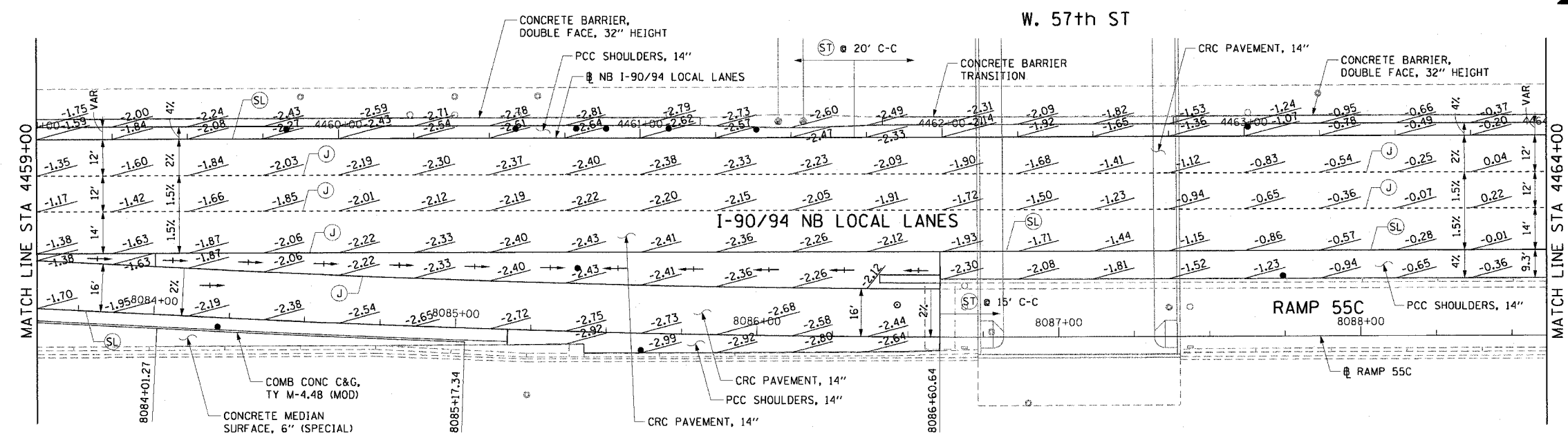
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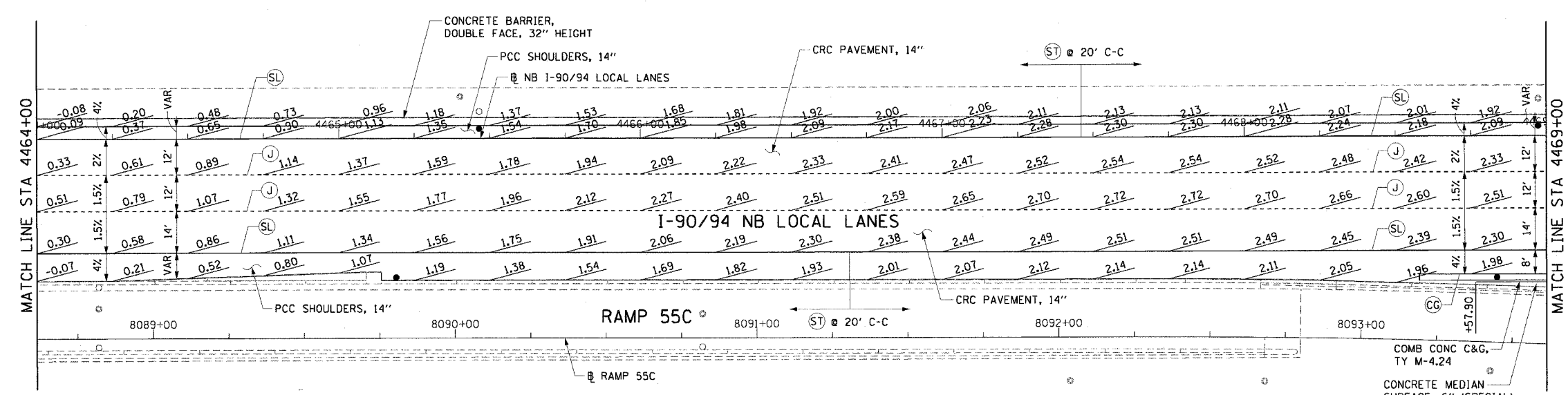


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	110
STA. 4459+00		TO STA. 4469+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



- NOTES:
- SEE ALIGNMENT AND TIES SHEETS FOR CURVE INFORMATION.
  - SEE ROADWAY PLAN SHEETS FOR BEGINNING AND END TAPER STATIONS AND TAPER RATES.
  - PAVEMENT ELEVATIONS ARE SHOWN AT 25' INTERVALS.
  - SEE ROADWAY DETAILS FOR THE TYING OF THE BARRIER BASE TO THE PCC SHOULDER.
  - TRANSITION FROM 4% SHOULDER SLOPE TO 1.5% GORE SLOPE AT A DISTANCE OF 25' FROM THE START OF THE GORE.

- LEGEND:
- CG LONGITUDINAL CURB AND GUTTER JOINT - NO. 6 EPOXY COATED TIE BARS, 24" LONG AT 24" C-C
  - J LONGITUDINAL SAWED JOINT - NO. 6 EPOXY COATED TIE BARS, 30" LONG AT 30" C-C
  - LONGITUDINAL CONSTRUCTION JOINT - NO. 8 EPOXY COATED TIE BARS, 24" LONG AT 24" C-C
  - SL LONGITUDINAL SHOULDER CONSTRUCTION JOINT - NO. 8 EPOXY COATED TIE BARS, 30" LONG AT 24" C-C
  - TRANSVERSE SHOULDER CONTRACTION JOINT - SPACED 15' C-C ALONG OUTSIDE SHOULDER - SPACED 20' C-C AT ALL OTHER LOCATIONS
  - SWALE



SWALE ELEVATIONS		
STATION	OFFSET	ELEVATION
4458+76.39	38.50' RT	-1.15
4459+00.00	39.13 RT	-1.39
	+25.00	39.80' RT -1.66
	+50.00	40.46' RT -1.90
	+75.00	41.12' RT -2.11
4460+00.00	41.71' RT	-2.27
	+25.00	42.75' RT -2.39
	+50.00	42.72' RT -2.47
	+75.00	43.12' RT -2.50
4461+00.00	43.47' RT	-2.49
	+25.00	43.75' RT -2.44
	+50.00	43.97' RT -2.35
	+75.00	44.12' RT -2.21
4461+99.17	44.22' RT	-2.03

CTE | AECOM

REVISIONS	
NAME	DATE

PJE-7

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

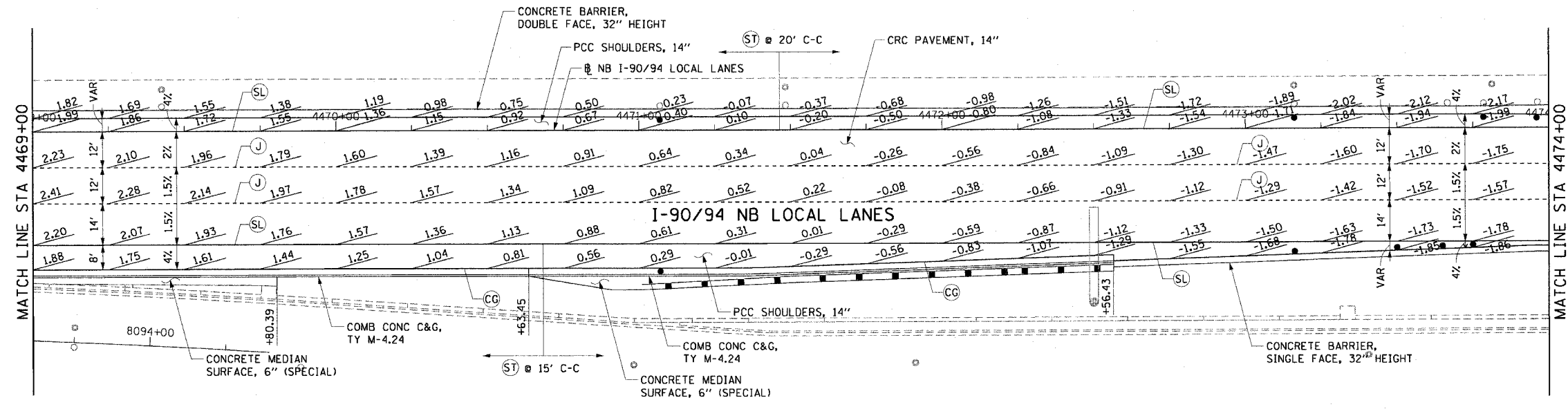
PAVEMENT JOINTING AND ELEVATION PLANS

SCALE: 1"=20'  
DATE: June 9, 2006

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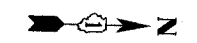
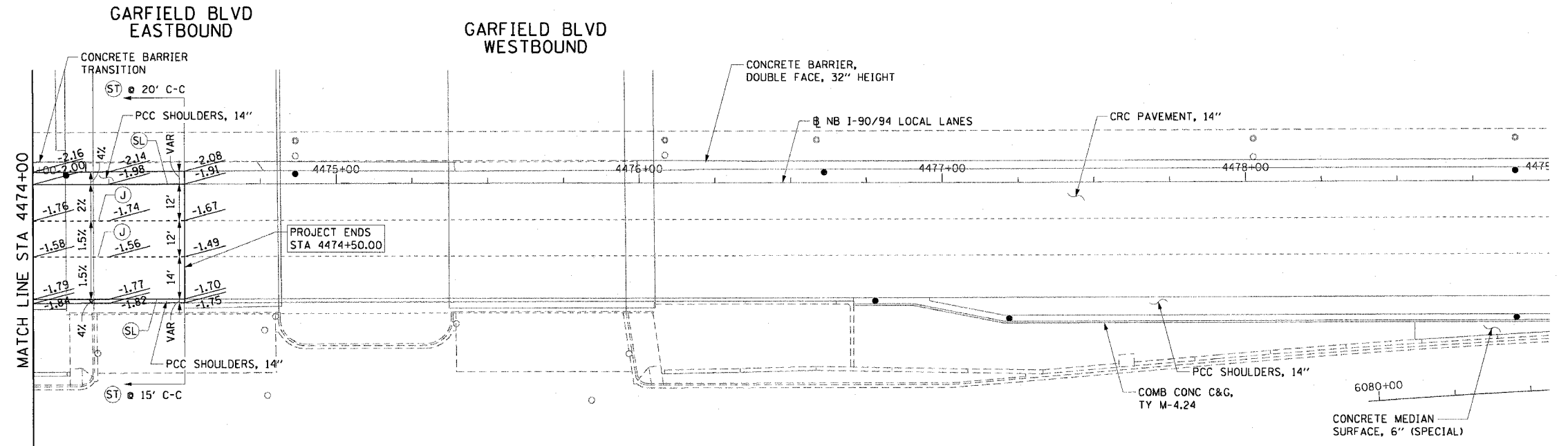
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	111
STA. 4469+00		TO STA. 4474+50		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



- NOTES:
- SEE ALIGNMENT AND TIES SHEETS FOR CURVE INFORMATION.
  - SEE ROADWAY PLAN SHEETS FOR BEGINNING AND END TAPER STATIONS AND TAPER RATES.
  - PAVEMENT ELEVATIONS ARE SHOWN AT 25' INTERVALS.
  - SEE ROADWAY DETAILS FOR THE TYING OF THE BARRIER BASE TO THE PCC SHOULDER.
  - AT THE PROJECT LIMITS, THE CONTRACTOR SHALL MEET THE FUTURE ROADWAY ELEVATIONS AND TRANSVERSE SHOULDER CONTRACTION JOINT SPACING OF CONTRACT 62301 AT THAT STATION.

- LEGEND:
- CC LONGITUDINAL CURB AND GUTTER JOINT - NO. 6 EPOXY COATED TIE BARS, 24" LONG AT 24" C-C
  - J LONGITUDINAL SAWED JOINT - NO. 6 EPOXY COATED TIE BARS, 30" LONG AT 30" C-C  
LONGITUDINAL CONSTRUCTION JOINT - NO. 8 EPOXY COATED TIE BARS, 24" LONG AT 24" C-C
  - SL LONGITUDINAL SHOULDER CONSTRUCTION JOINT - NO. 8 EPOXY COATED TIE BARS, 30" LONG AT 24" C-C
  - ST TRANSVERSE SHOULDER CONTRACTION JOINT  
- SPACED 15' C-C ALONG OUTSIDE SHOULDER  
- SPACED 20' C-C AT ALL OTHER LOCATIONS



REVISIONS	
NAME	DATE

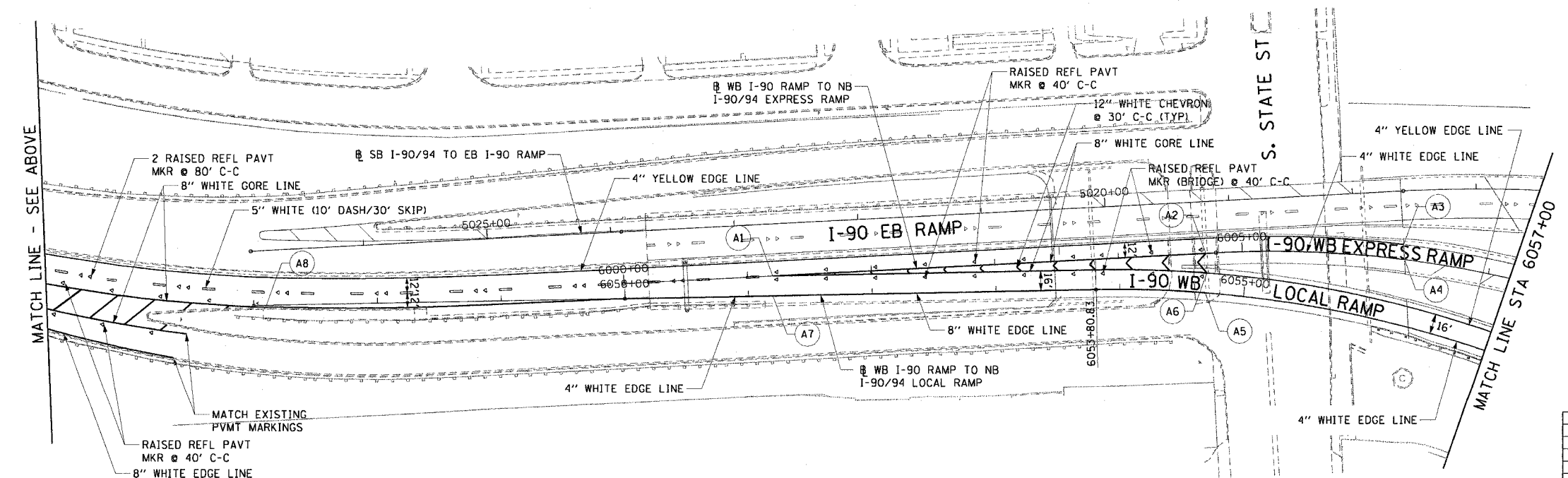
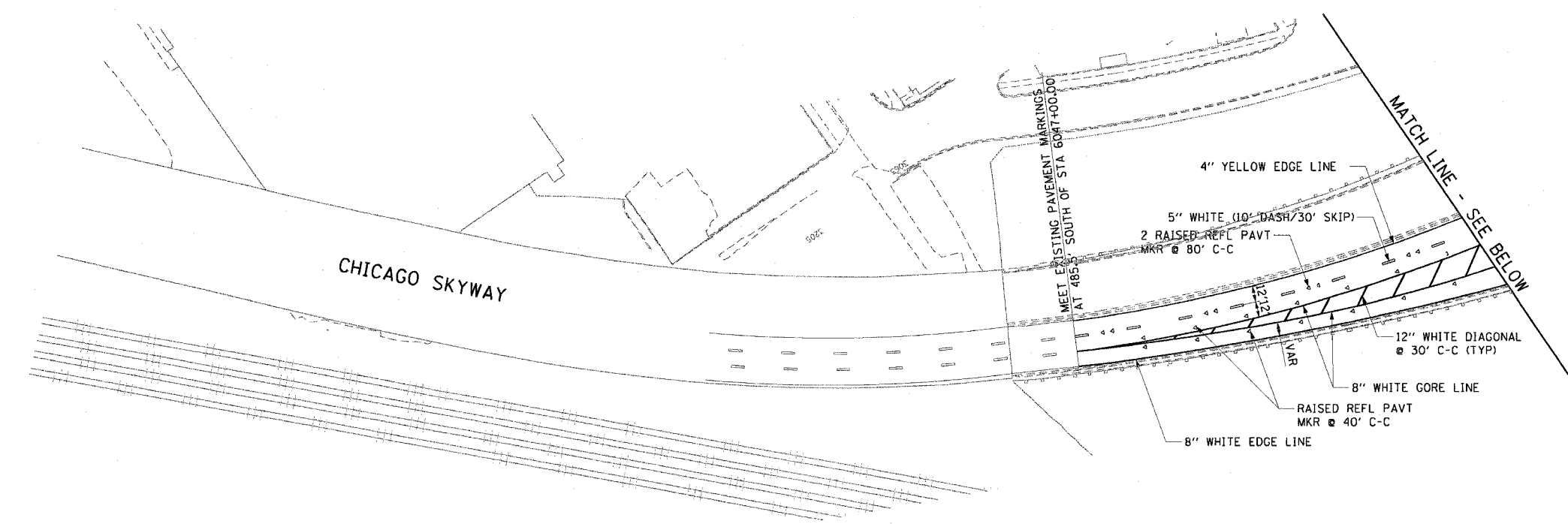
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 ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
 PAVEMENT JOINTING AND ELEVATION PLANS  
 SCALE: 1"=20'  
 DATE: June 9, 2006  
 DRAWN BY: NJH  
 CHECKED BY: XXX

CTE | AECOM

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	112
STA. 6056+35.37 TO STA. 6057+00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



- NOTES:
1. ALL PAVEMENT MARKINGS SHALL BE POLYUREA.
  2. THE PAVEMENT MARKINGS SHALL MATCH THOSE OF CONTRACT 62589 AT THE BEGINNING OF THE JOB.
  3. FOR PAVEMENT MARKING DETAILS, SEE DISTRICT 1 STANDARDS TC-12 AND TC-13.
  4. RAISED REFLECTIVE PAVEMENT MARKING SPACING SHALL BE COORDINATED WITH THE SPACING OF THE EXISTING RAISED REFLECTIVE PAVEMENT MARKING AT THE BEGINNING OF THE JOB.

PT.	STATION	OFFSET
A1	6051+19.78	16.00' LT
A2	6004+70.61	0.00'
A3	6006+29.23	12.00' LT
A4	6006+31.38	0.00'
A5	6054+69.06	0.00'
A6	6054+69.06	16.00' LT
A7	6051+19.78	0.00'
A8	6047+09.92	1.48' RT

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REVISIONS	
NAME	DATE

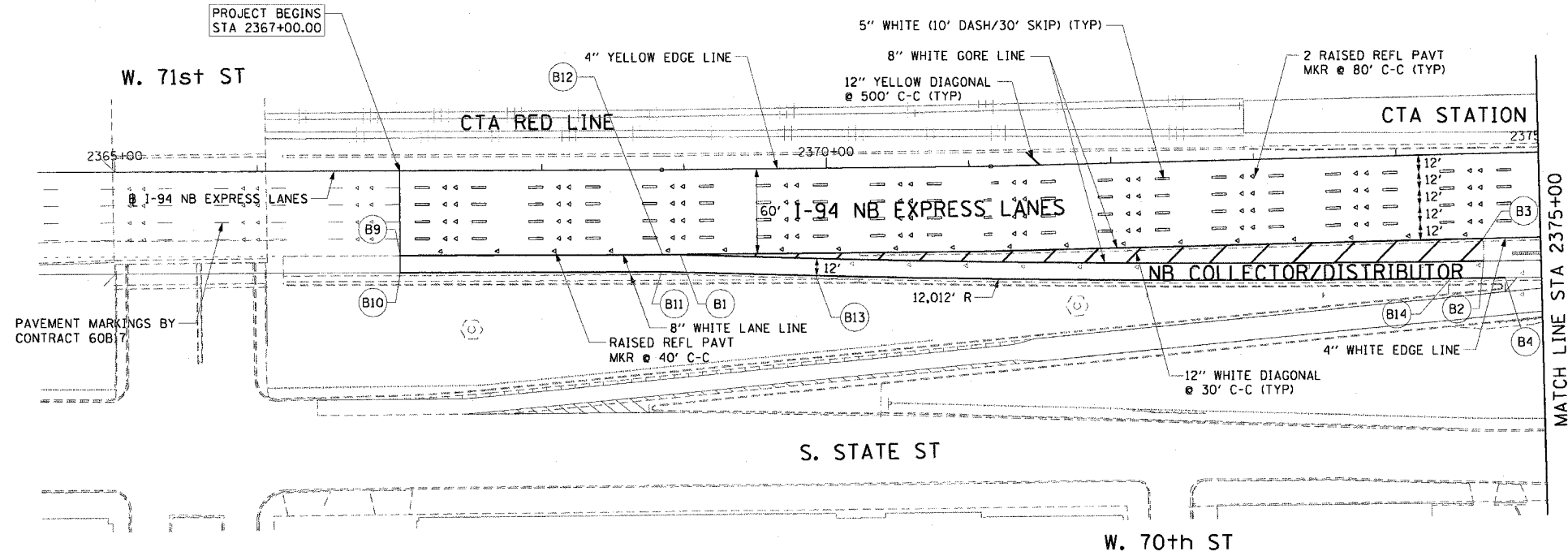
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
**PROPOSED PAVEMENT MARKING PLANS**

SCALE: 1"=50'  
 DATE: June 9, 2006

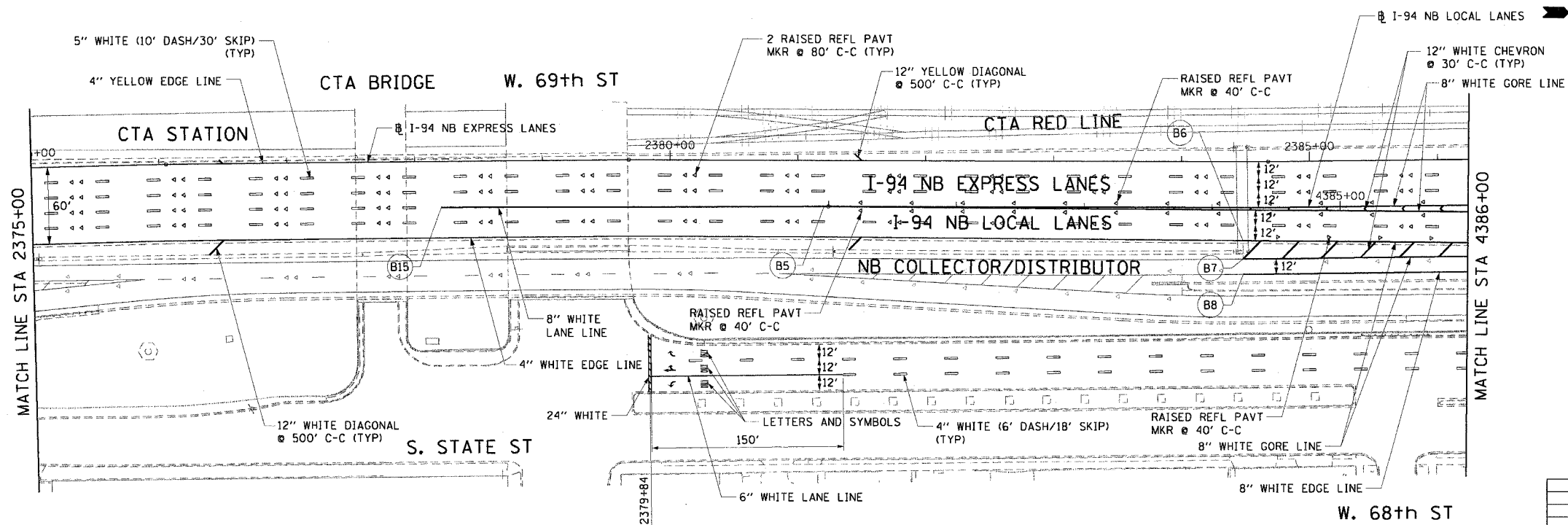
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	113
STA. 2367+00		TO STA. 4386+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



- NOTES:
1. ALL PAVEMENT MARKINGS SHALL BE POLYUREA.
  2. FOR PAVEMENT MARKING DETAILS, SEE DISTRICT 1 STANDARDS TC-12 AND TC-13.
  3. PAVEMENT MARKINGS SHALL MATCH THOSE OF CONTRACT 60B17 AT THE BEGINNING OF THE PROJECT AT STATION 2367+00 AND THOSE OF CONTRACT 62590 AT THE NB COLLECTOR/DISTRIBUTOR.
  4. SHOULDER DIAGONAL SPACING AND RAISED REFLECTIVE PAYMENT MARKING SPACING SHALL BE COORDINATED WITH THE SPACING OF CONTRACT 60B17.
  5. PAVEMENT MARKINGS ALONG STATE STREET SHALL BE PLACED AT THE SAME LOCATIONS AS THE EXISTING PAVEMENT MARKINGS, OF THE SAME SIZE AND COLOR.



PT.	STATION	OFFSET	PT.	STATION	OFFSET
B1	2368+94.83	60.00' RT	B11	2368+83.77	72.00' RT
B2	2374+59.60	76.00' RT	B12	2368+84.48	60.00' RT
B3	2374+59.79	60.00' RT	B13	2369+91.92	75.80' RT
B4	2374+74.60	88.18' RT	B14	2374+36.35	87.72' RT
B5	2381+20.66	36.00' RT	B15	2378+20.66	36.00' RT
B6	4384+24.27	24.00' RT			
B7	4384+24.55	38.19' RT			
B8	4384+24.79	50.19' RT			
B9	2367+00.00	60.00' RT			
B10	2367+00.00	72.00' RT			

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
**PROPOSED PAVEMENT MARKING PLANS**

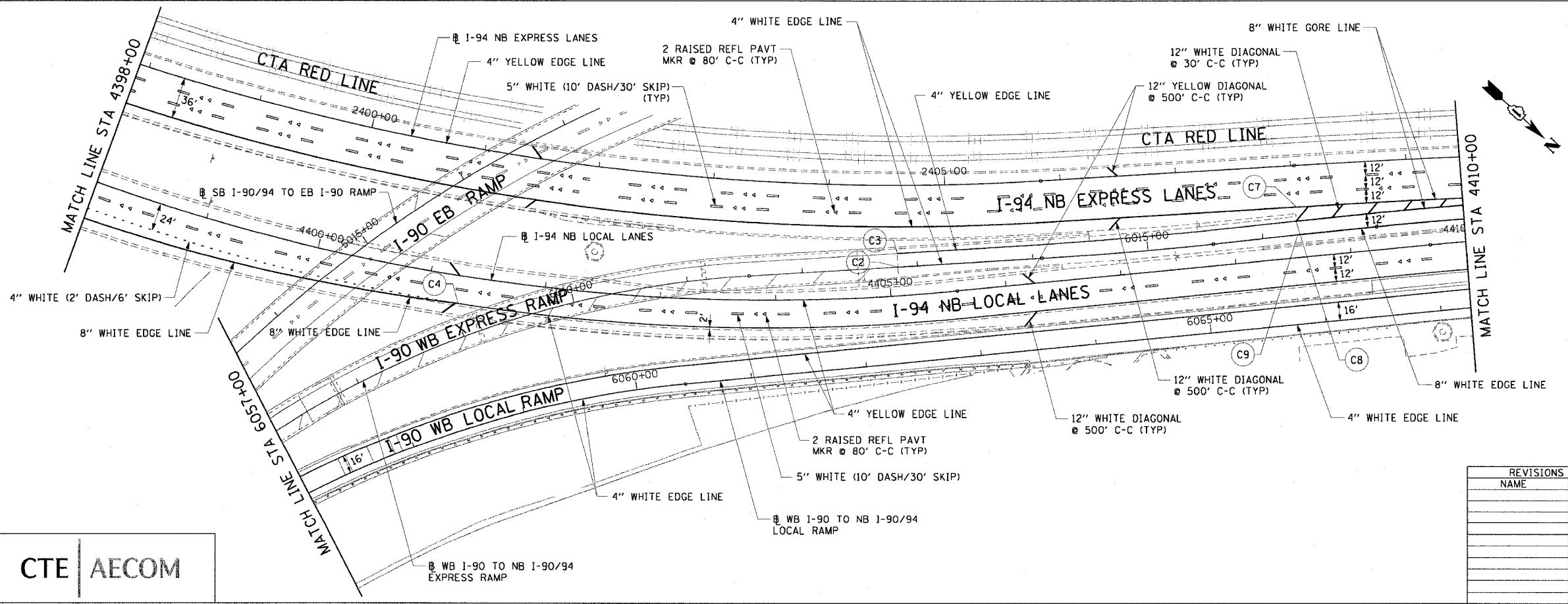
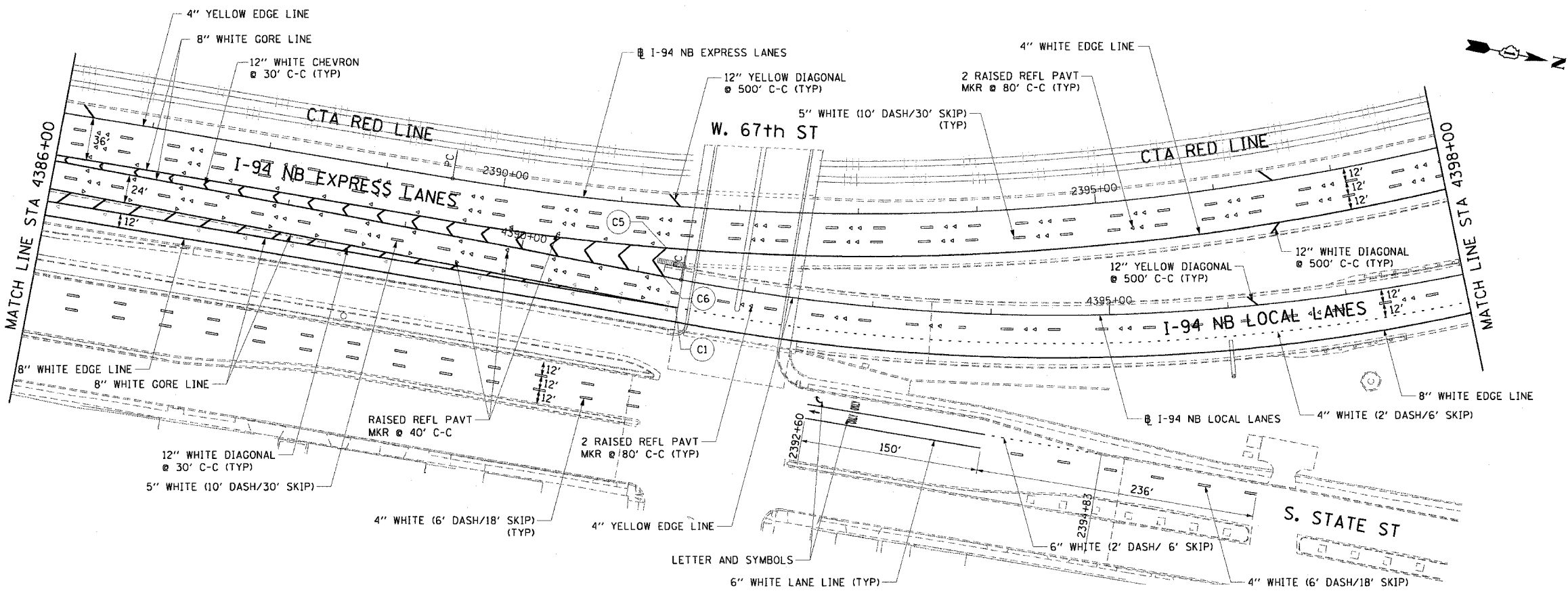
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CTE | AECOM

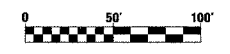
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	114
STA. 4386+00		TO STA. 4410+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



- NOTES:
1. ALL PAVEMENT MARKINGS SHALL BE POLYUREA.
  2. THE PAVEMENT MARKINGS SHALL MATCH THOSE OF CONTRACT 62589 AT THE I-90 WB EX RAMP.
  3. FOR PAVEMENT MARKING DETAILS, SEE DISTRICT 1 STANDARDS TC-12 AND TC-13.
  4. PAVEMENT MARKINGS ALONG STATE STREET SHALL BE PLACED AT THE SAME LOCATIONS AS THE EXISTING PAVEMENT MARKINGS, OF THE SAME SIZE AND COLOR.

PT.	STATION	OFFSET
C1	4391+36.97	24.00' RT
C2	6012+83.00	0.00'
C3	6012+83.00	12.00' LT
C4	4401+27.19	24.00' RT
C5	2391+41.02	36.00' RT
C6	4391+21.62	0.00'
C7	2408+03.10	36.00' RT
C8	6016+60.30	12.00' LT
C9	6016+60.30	0.00'



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
**PROPOSED PAVEMENT MARKING PLANS**

SCALE: 1"=50'  
 DATE: June 9, 2006

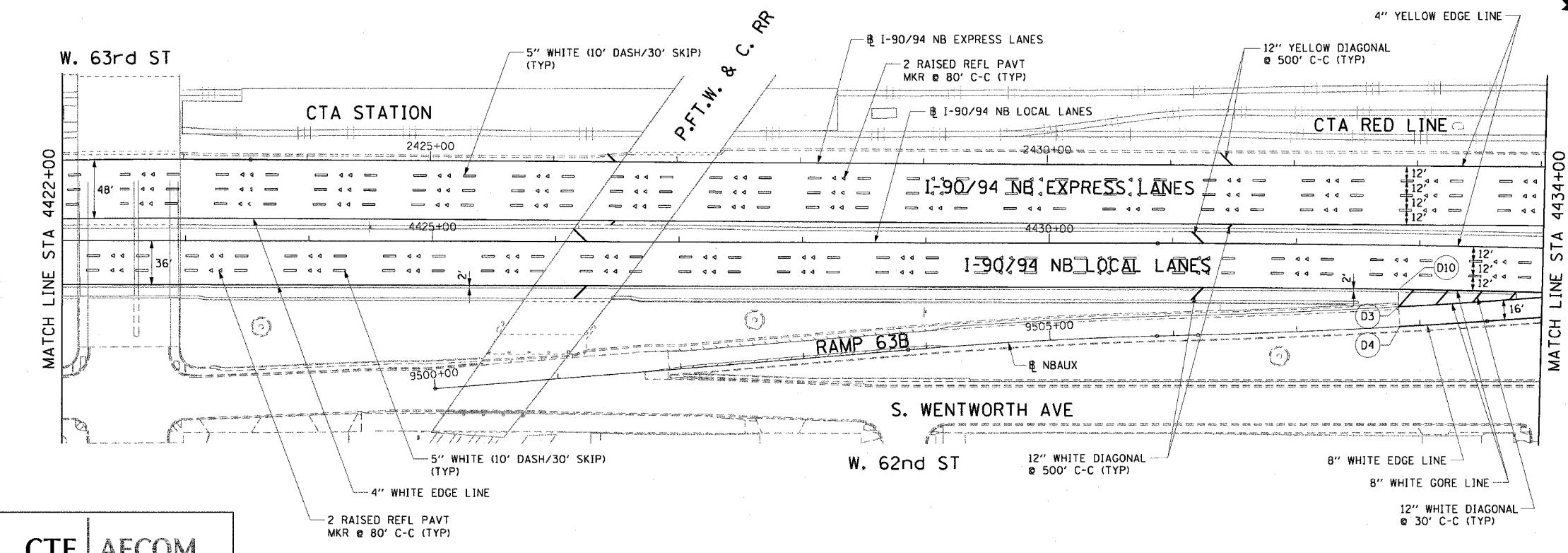
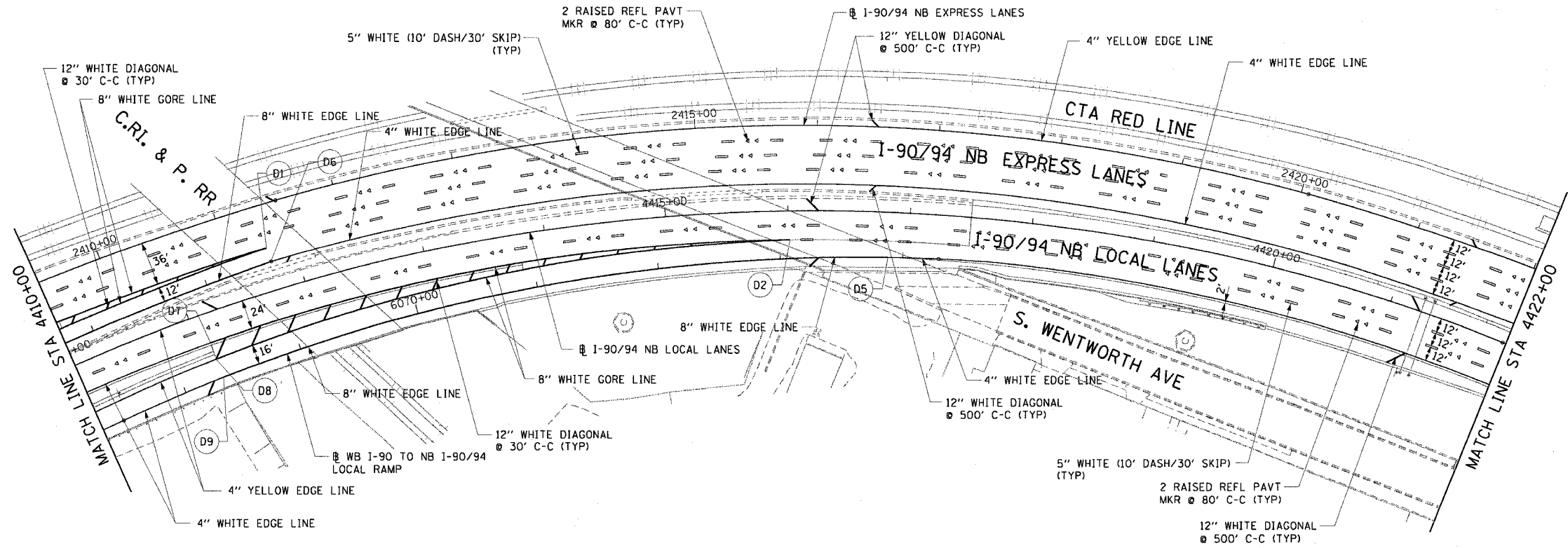
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CTE | AECOM

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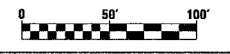


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	312	115
STA. 4410+00		TO STA. 4434+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



- NOTES:
1. ALL PAVEMENT MARKINGS SHALL BE POLYUREA.
  2. THE PAVEMENT MARKINGS SHALL MATCH THOSE OF CONTRACT 62837 AT RAMP 63B.
  3. FOR PAVEMENT MARKING DETAILS, SEE DISTRICT 1 STANDARDS TC-12 AND TC-13.

PT.	STATION	OFFSET
D1	2411+32.73	36.00' RT
D2	4416+01.33	24.00' RT
D3	9507+83.45	16.00' LT
D4	9507+83.45	0.00'
D5	4416+83.12	38.00' RT
D6	2411+32.95	48.00' RT
D7	4411+10.38	24.00' RT
D8	6068+32.80	16.00' LT
D9	6068+32.80	0.00'
D10	4432+83.86	36.00' RT



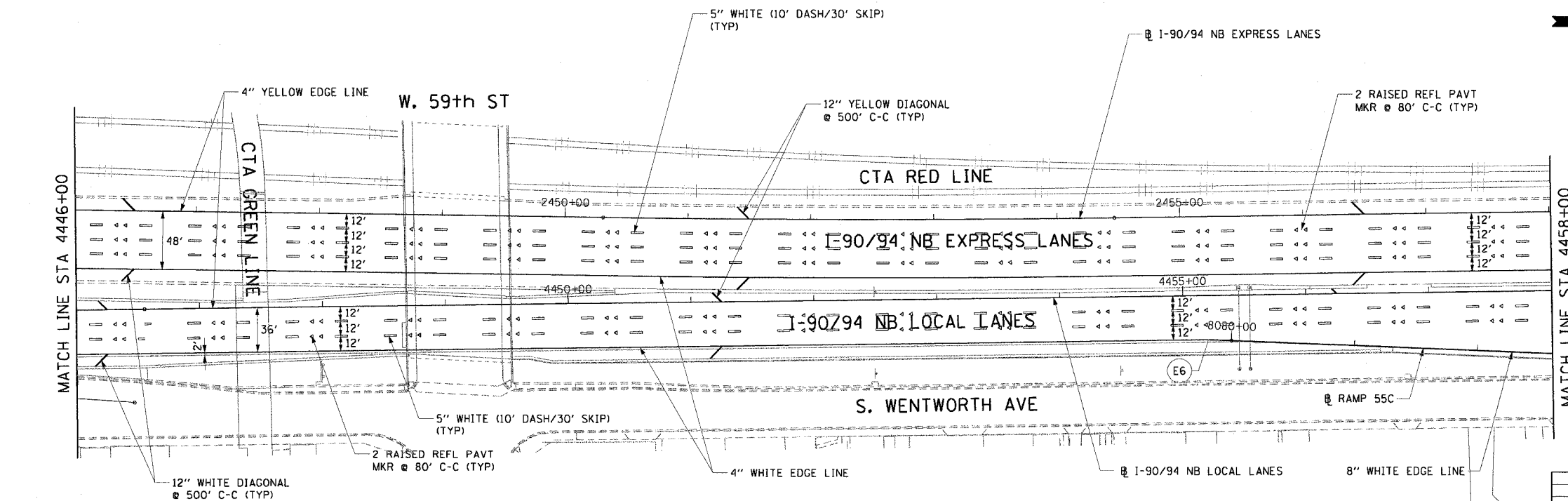
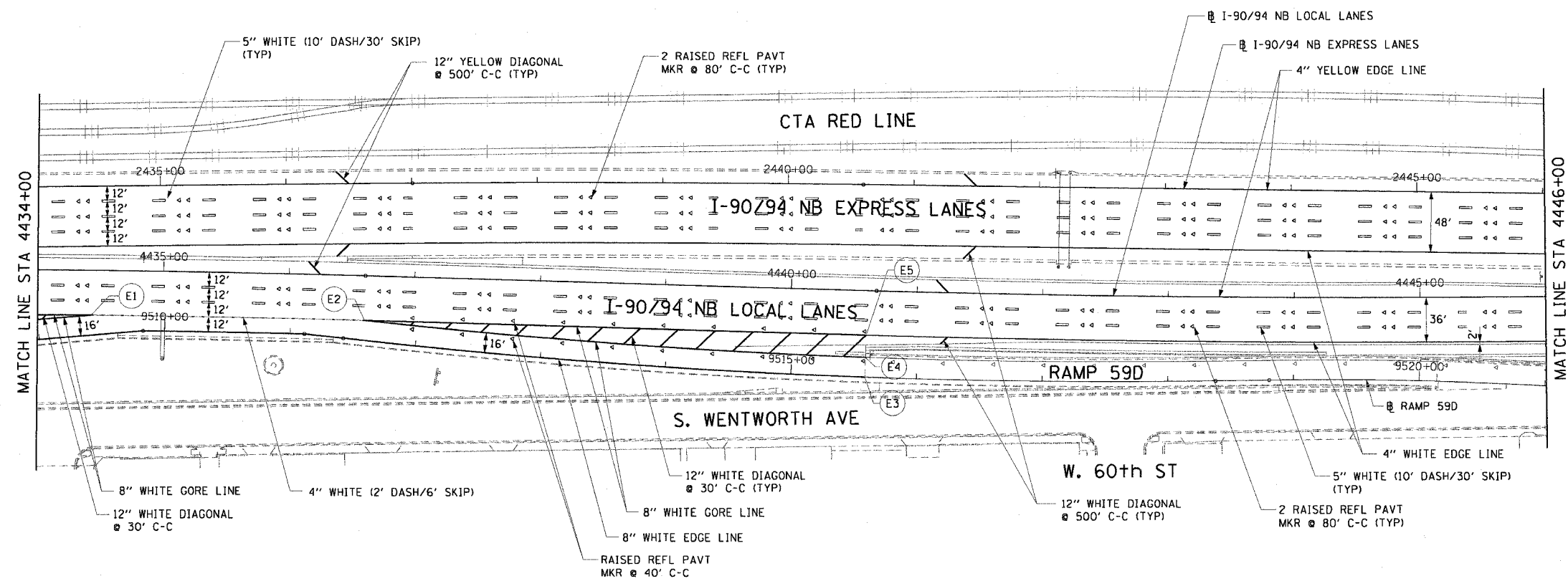
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
**PROPOSED PAVEMENT MARKING PLANS**  
 SCALE: 1"=50'  
 DATE: June 9, 2006  
 DRAWN BY: PHP  
 CHECKED BY: NJH

CTE | AECOM

PM-4  
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 6/5/2006

F.A.I. RTE. 90/94	SECTION *	COUNTY COOK	TOTAL SHEETS 312	SHEET NO. 116
STA. 4434+00		TO STA. 4458+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



- NOTES:
1. ALL PAVEMENT MARKINGS SHALL BE POLYUREA.
  2. THE PAVEMENT MARKINGS SHALL MATCH THOSE OF CONTRACT 62301 AT THE END OF THE PROJECT AT STATION 4449+00.00 AND THOSE OF CONTRACT 62837 AT RAMP 59D.
  3. FOR PAVEMENT MARKING DETAILS, SEE DISTRICT 1 STANDARDS TC-12 AND TC-13.
  4. SHOULDER DIAGONAL SPACING AND RAISED REFLECTIVE PAVEMENT MARKING SPACING SHALL BE COORDINATED WITH THE SPACING OF CONTRACT 62301.

PT.	STATION	OFFSET
E1	4434+42.78	36.00' RT
E2	4436+60.92	36.00' RT
E3	9515+58.89	0.00'
E4	9515+58.89	16.00' LT
E5	4440+60.48	36.00' RT
E6	4455+20.46	36.00' RT



REVISIONS	
NAME	DATE

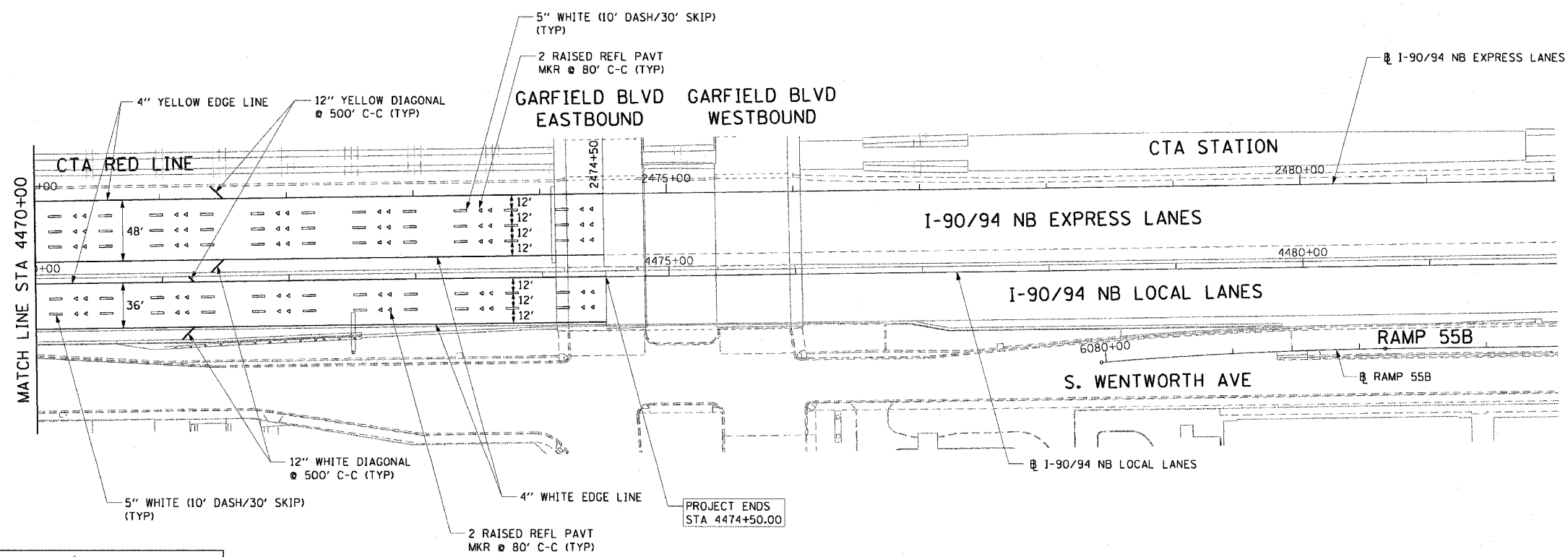
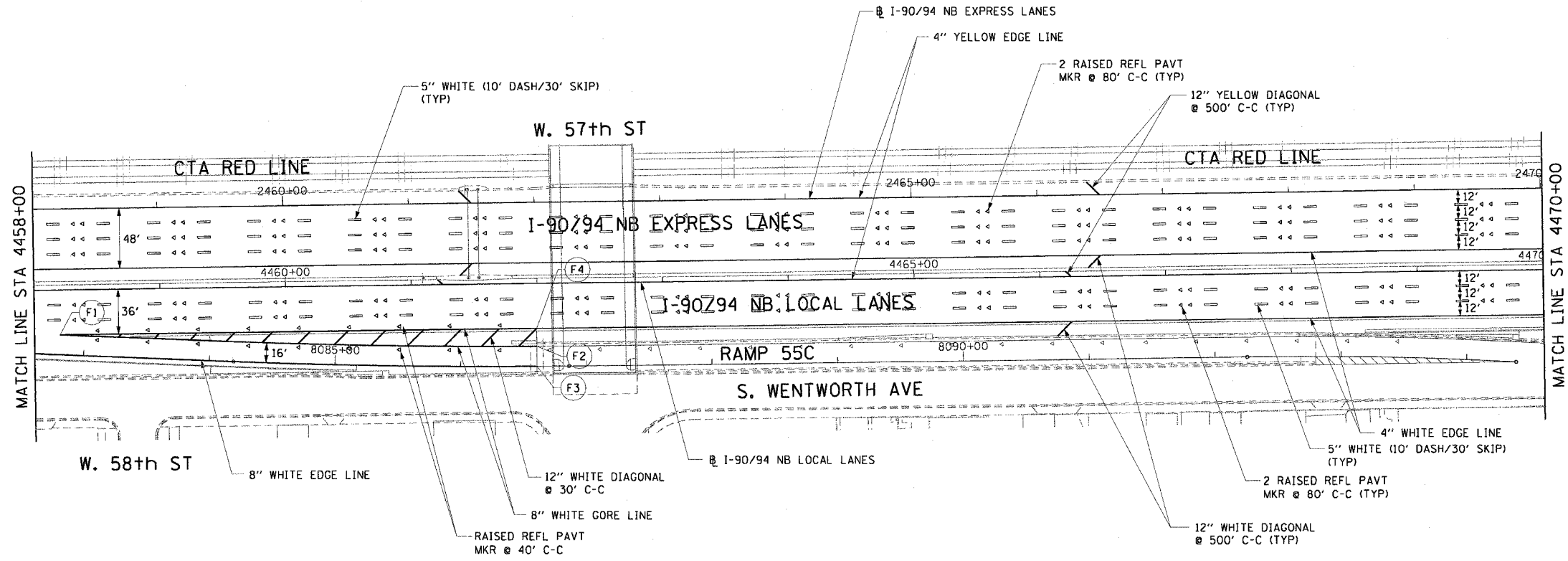
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
 PROPOSED PAVEMENT MARKING PLANS

SCALE: 1"=50'  
 DATE: June 9, 2006

DRAWN BY: PHP  
 CHECKED BY: NJH

CTE | AECOM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	117
STA. 4458+00		TO STA. 4475+50		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



- NOTES:
1. ALL PAVEMENT MARKINGS SHALL BE POLYUREA.
  2. THE PAVEMENT MARKINGS SHALL MATCH THOSE OF CONTRACT 62799 AT RAMP 55C.
  3. FOR PAVEMENT MARKING DETAILS, SEE DISTRICT 1 STANDARDS TC-12 AND TC-13.

PT.	STATION	OFFSET
F1	4458+20.26	36.00' RT
F2	8086+60.64	16.00' LT
F3	8086+60.64	0.00'
F4	4461+99.18	36.00' RT



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
**PROPOSED PAVEMENT MARKING PLANS**

SCALE: 1"=50'  
 DATE: June 9, 2006

DRAWN BY: PHP  
 CHECKED BY: NJH

CTE | AECOM

PROJECT ENDS  
 STA 4474+50.00

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F.A.I. RTE. 90/94	SECTION *	COUNTY COOK	TOTAL SHEETS 312	SHEET NO. 118
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
60A62		(1919.15, 2021-922 PT1 & PT2) R-1		

PROPOSED SIGNING SCHEDULE

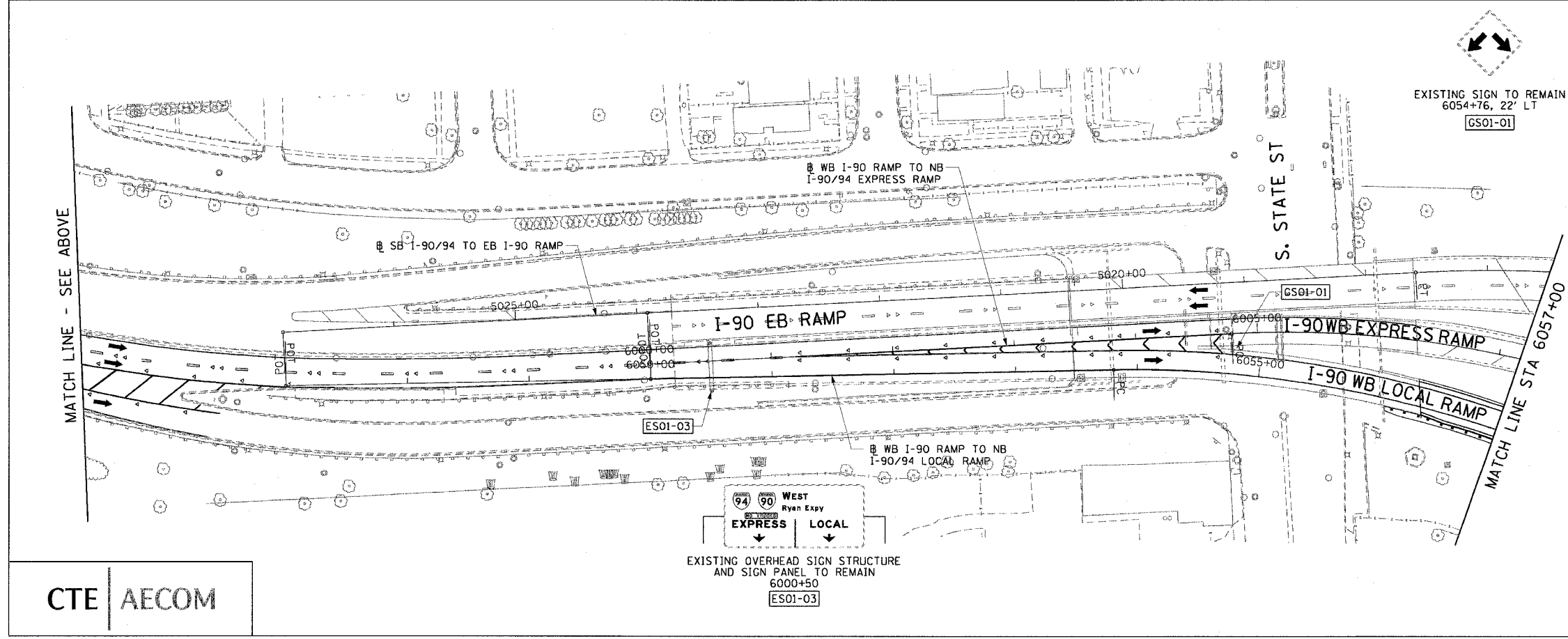
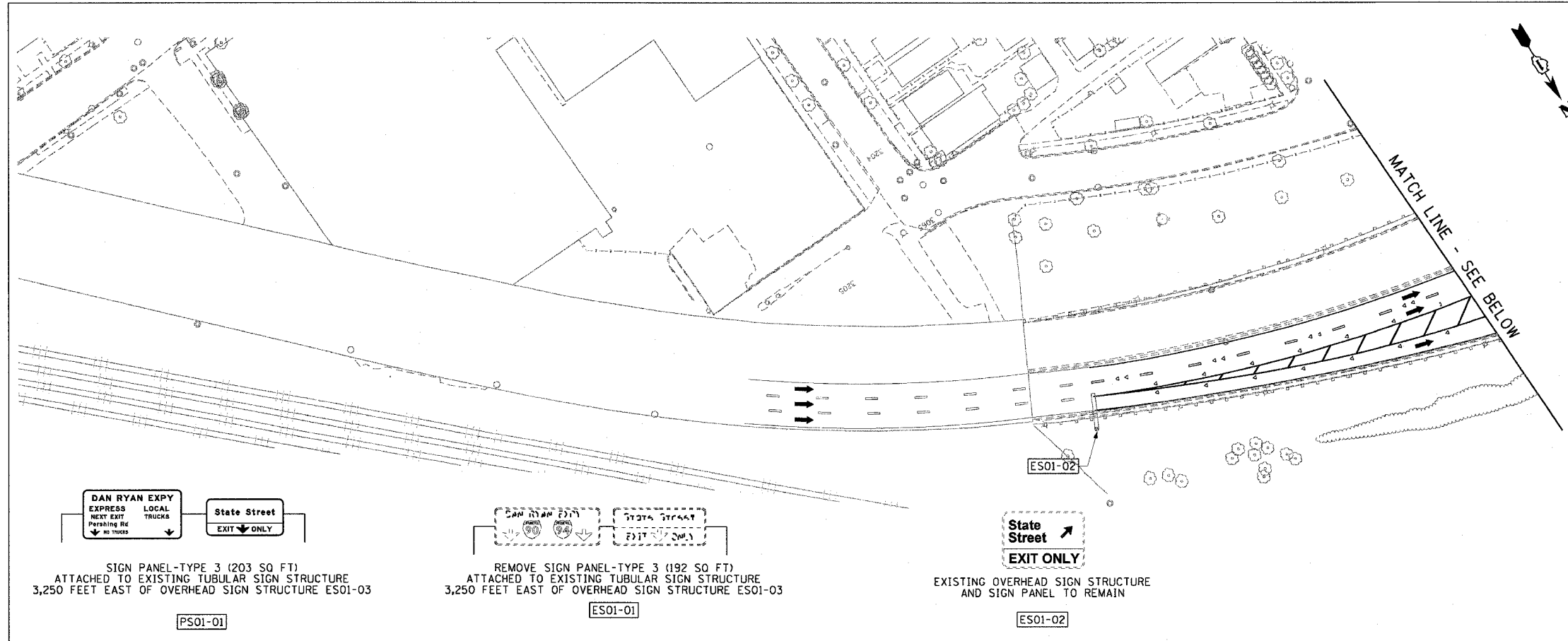
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				SO FT	SO FT	SO FT	EACH	SO FT	POUND	FOOT	FOOT	EACH	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	CU YD	CU YD	EACH	EACH
SG-01	-	3250' E of ES01-03	ES01-01					192															
SG-01	-	3250' E of ES01-03	PS01-01			203																	
SG-02	-	4381+05	PS02-01	4						8		1											
SG-02	-	2384+47	ES02-02					114															
SG-02	-	2384+47	PS02-02		12																		
SG-03	1C0161094L059.2	4396+00	PS03-01			84									32.25		14.5		7.5				
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SG-03	-	4399+00	PS03-03	11							15												
SG-03	-	4407+50	PS03-04	4						8		1											
SG-04	-	4421+19	ES04-01																		1		1
SG-04	-	4412+50	GS04-01				1																
SG-04	-	4429+51	GS04-02				1																
SG-04	-	4410+25	PS04-01		16							1											
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SG-04	-	4421+30	PS04-03		12																		
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SG-04	-	4429+00	PS04-05		16						17												
SG-05	-	4448+56	ES05-03																		1		1
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SG-05	-	4447+13	GS05-03					112														2	2
SG-05	-	4455+50	GS05-04																		1		1
SG-05	-	4434+85	PS05-01	4							8	1											
SG-05	-	4440+65	PS05-02		16.3						10.25	1											
SG-05	-	2442+20	PS05-03		12																		
SG-05	-	4448+00	PS05-04			112			652									1.4					
SG-05	1B0161094L058.2	4448+68	PS05-05			128										16							
SG-05	-	4452+50	PS05-06	20						10.5		1											
SG-05	-	4452+50	PS05-07	24.5							19												
SG-05	-	4454+50	PS05-08			30					32												
SG-05	1S0161094L058.1	4455+50	PS05-09			102								66			46.5		26.7				
SG-06	-	4462+01	GS06-01				1																
SG-06	-	4461+10	PS06-01	4						8		1											
SG-06	-	2461+51	PS06-02		12																		
SG-06	-	4462+05	PS06-03		16.3					15.25		1											
TOTALS				102.5	112.6	871	4	226	652	90.5	98	9	64	66	32.25	16	107	1.4	48.9	3	2	2	3

CTE | AECOM

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  SCHEDULE OF QUANTITIES FOR PROPOSED SIGNING  SCALE: NONE DATE: June 9, 2006	DRAWN BY: NJH CHECKED BY: XXX
NAME	DATE		

F:\24066\CHINB-Ctr 18 & 19\SHCNtr 18A\signing Plan\SS18A001.dwg 6/5/2006 5:34:0 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	119
STA. 6056+35.37 TO STA. 6057+00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



- LEGEND:**
- ESXX-XX EXISTING OVERHEAD OR CANTILEVER SIGNS
  - GSXX-XX EXISTING POST MOUNTED SIGNS
  - PSXX-XX PROPOSED SIGNS

- NOTES:**
1. FOR SIGN PANEL DETAILS SEE OVERHEAD SIGN STRUCTURE DETAIL SHEETS.
  2. SIGN PS01-01 IS TO BE INSTALLED ON THE EXISTING MONOTUBE OVERHEAD SIGN STRUCTURE LOCATED APPROXIMATELY 3250 FEET EAST OF SIGN ES01-03.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

**PROPOSED SIGNING PLANS**

SCALE: 1"=50'  
DATE: June 9, 2006

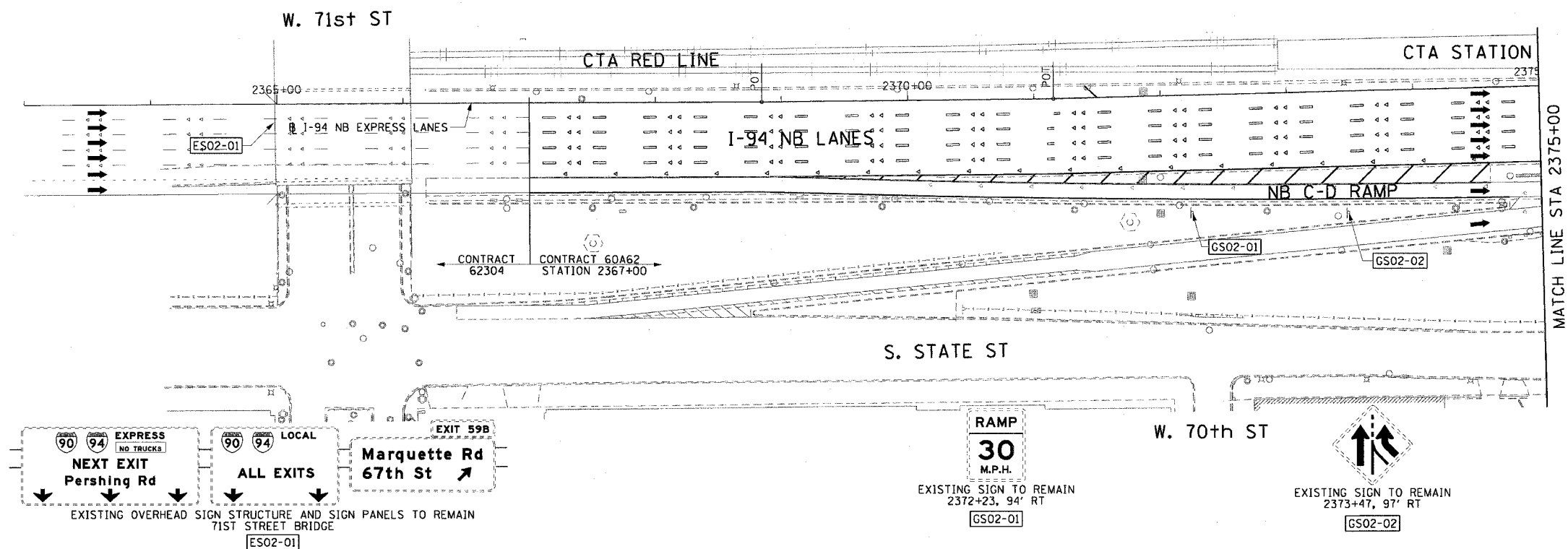
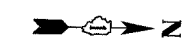
DRAWN BY: PHP  
CHECKED BY: RMG

CTE | AECOM

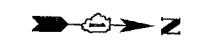
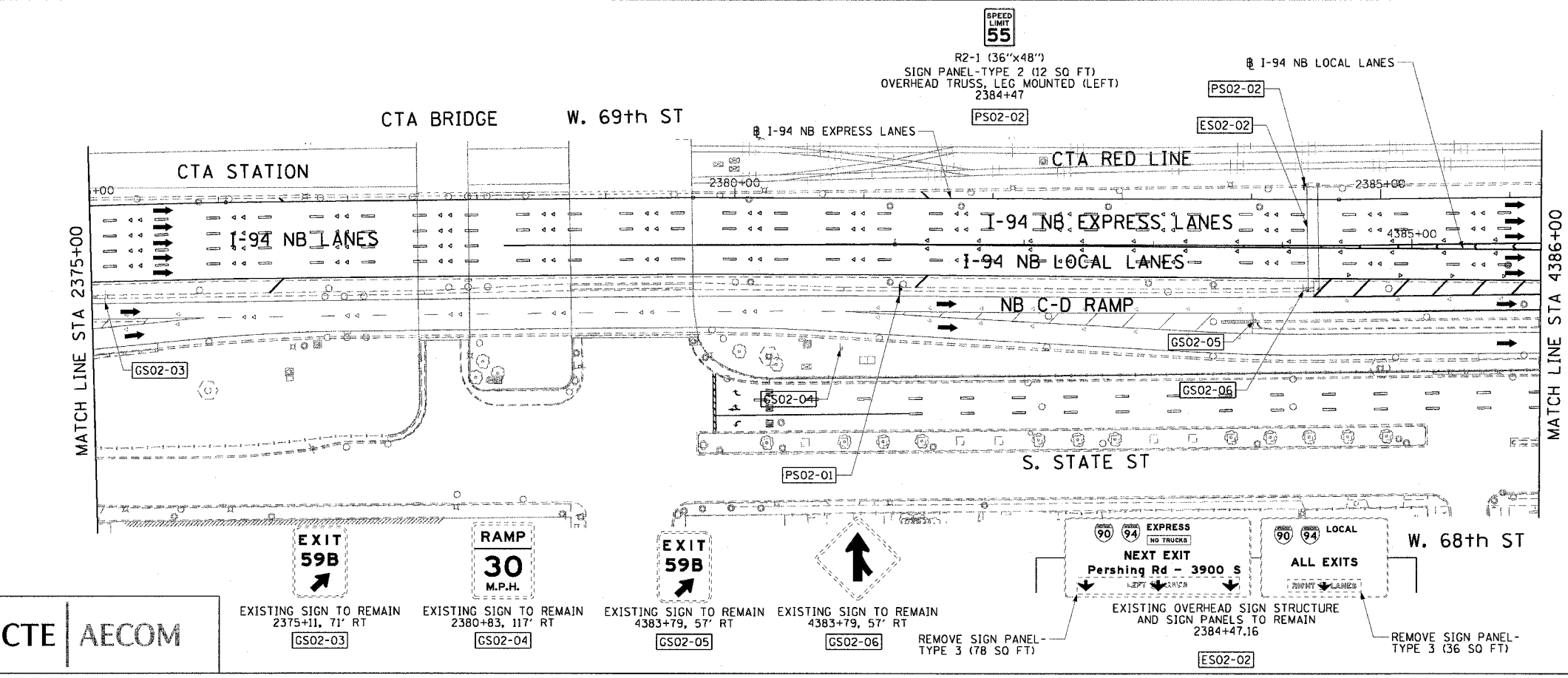
SC-01  
3/3/2006



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	120
STA. 000+00 TO STA. 4386+00		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		
60A62		• (1919.15, 2021-922 PT1 & PT2) R-1		

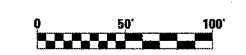


MATCH LINE STA 2375+00



- LEGEND:**
- ESXX-XX EXISTING OVERHEAD OR CANTILEVER SIGNS
  - GSXX-XX EXISTING POST MOUNTED SIGNS
  - PSXX-XX PROPOSED SIGNS
- NOTES:**
- FOR SIGNS MOUNTED ON OVERHEAD TRUSS LEGS, A CLEAR HEIGHT OF 6-FEET SHALL BE MAINTAINED.
  - FOR MILE MARKER PANEL DETAILS SEE THE PROPOSED SIGN PANEL DETAILS SHEETS.

SIGN PANEL-TYPE 1 (4 SQ FT)  
 TELESCOPING STEEL SIGN SUPPORT (8 FEET)  
 BASE FOR TELESCOPING STEEL SIGN SUPPORT (1 EACH)  
 4381+05, 35' RT  
PS02-01



REVISIONS	
NAME	DATE

SG-02

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

**PROPOSED SIGNING PLANS**

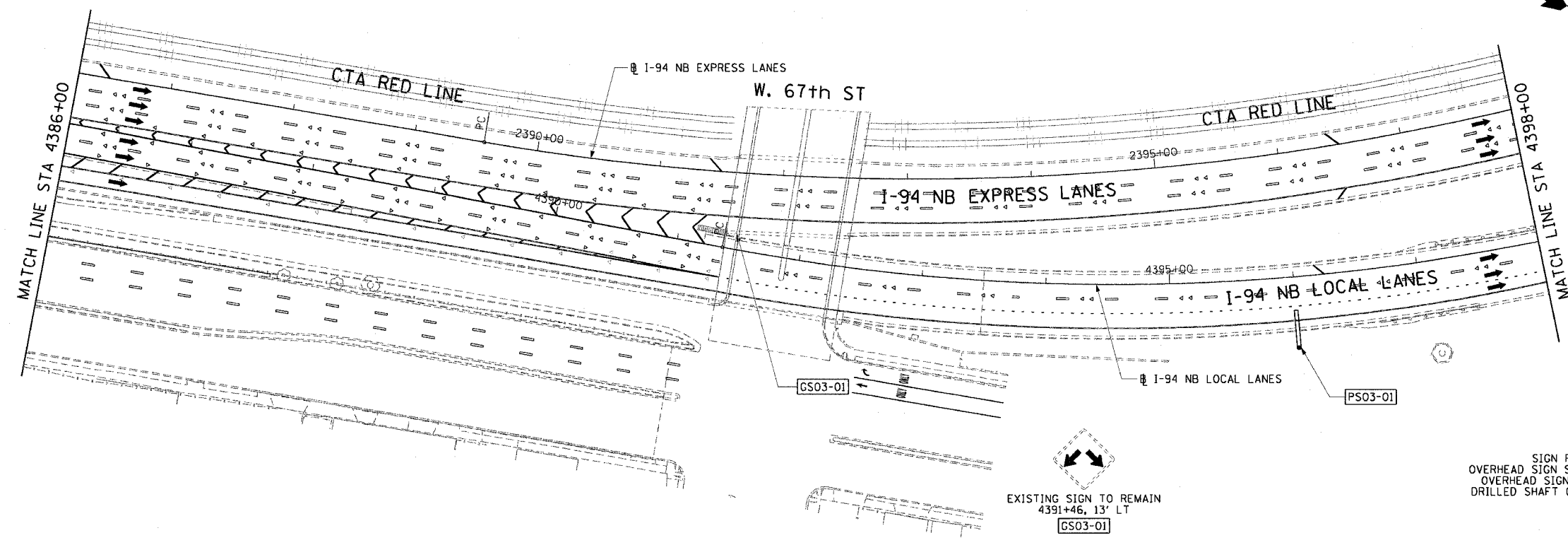
SCALE: 1"=50'  
 DATE: June 9, 2006

DRAWN BY: PHP  
 CHECKED BY: RMG

**CTE | AECOM**

3-5623 PH 6/5/2006

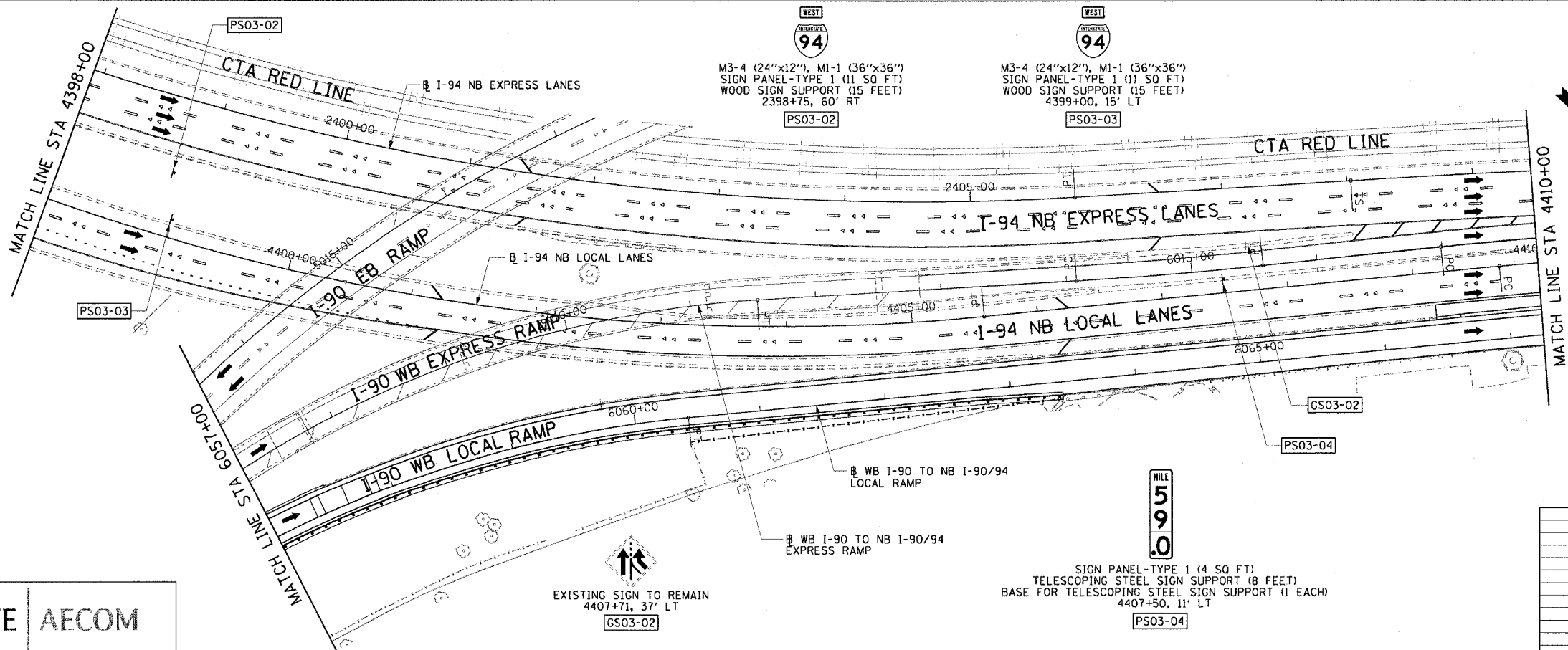
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	121
STA. 4386+00		TO STA. 4410+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



**EXIT 58A**  
**59th St**  
 1/2 MILE

SIGN PANEL-TYPE 3 (84 SQ FT)  
 OVERHEAD SIGN STRUCTURE-CANTILEVER (32.25 FEET)  
 OVERHEAD SIGN STRUCTURE WALKWAY (14.5 FEET)  
 DRILLED SHAFT CONCRETE FOUNDATIONS (7.5 CU YD)  
 1C0161094L059.2  
 4396+00  
 PS03-01

EXISTING SIGN TO REMAIN  
 4391+46, 13' LT  
 GS03-01



M3-4 (24"x12"), M1-1 (36"x36")  
 SIGN PANEL-TYPE 1 (11 SQ FT)  
 WOOD SIGN SUPPORT (15 FEET)  
 2398+75, 60' RT  
 PS03-02

M3-4 (24"x12"), M1-1 (36"x36")  
 SIGN PANEL-TYPE 1 (11 SQ FT)  
 WOOD SIGN SUPPORT (15 FEET)  
 4399+00, 15' LT  
 PS03-03

- LEGEND:
- ESXX-XX EXISTING OVERHEAD OR CANTILEVER SIGNS
  - GSXX-XX EXISTING POST MOUNTED SIGNS
  - PSXX-XX PROPOSED SIGNS

- NOTES:
- FOR SIGN PANEL AND TRUSS DETAILS SEE OVERHEAD SIGN STRUCTURE DETAIL SHEETS.
  - FOR MILE MARKER PANEL DETAILS SEE THE PROPOSED SIGN PANEL DETAILS SHEETS.

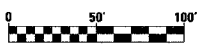
EXISTING SIGN TO REMAIN  
 4407+71, 37' LT  
 GS03-02

SIGN PANEL-TYPE 1 (4 SQ FT)  
 TELESCOPING STEEL SIGN SUPPORT (8 FEET)  
 BASE FOR TELESCOPING STEEL SIGN SUPPORT (1 EACH)  
 4407+50, 11' LT  
 PS03-04



CTE | AECOM

REVISIONS	
NAME	DATE



ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

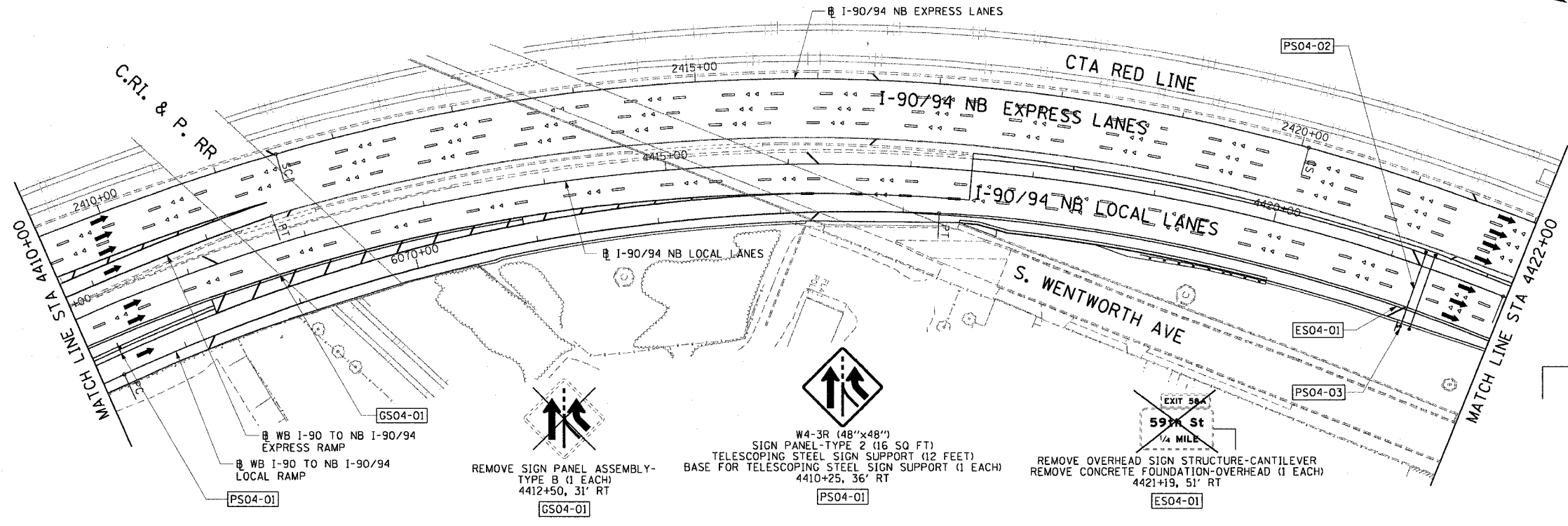
PROPOSED SIGNING PLANS

SCALE: 1"=50'  
 DATE: June 9, 2006  
 DRAWN BY: PHF  
 CHECKED BY: RMG

SG-03

6/5/2006 3:36:25 PM P:\p40468\ch\N8-cntrs\19 & 15\util\cntr\19asn\signing\plans\sg0303.dwg

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	122
STA. 4410+00 TO STA. 4434+00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



**SPEED LIMIT 45**

R2-1 (36"x48")  
SIGN PANEL-TYPE 2 (12 SQ FT)  
OVERHEAD TRUSS LEG MOUNTED (RIGHT)  
4421+30  
PS04-03

**EXIT 57**  
Garfield Blvd  
3/4 MILE

**EXIT 58A**  
59th St  
1/4 MILE

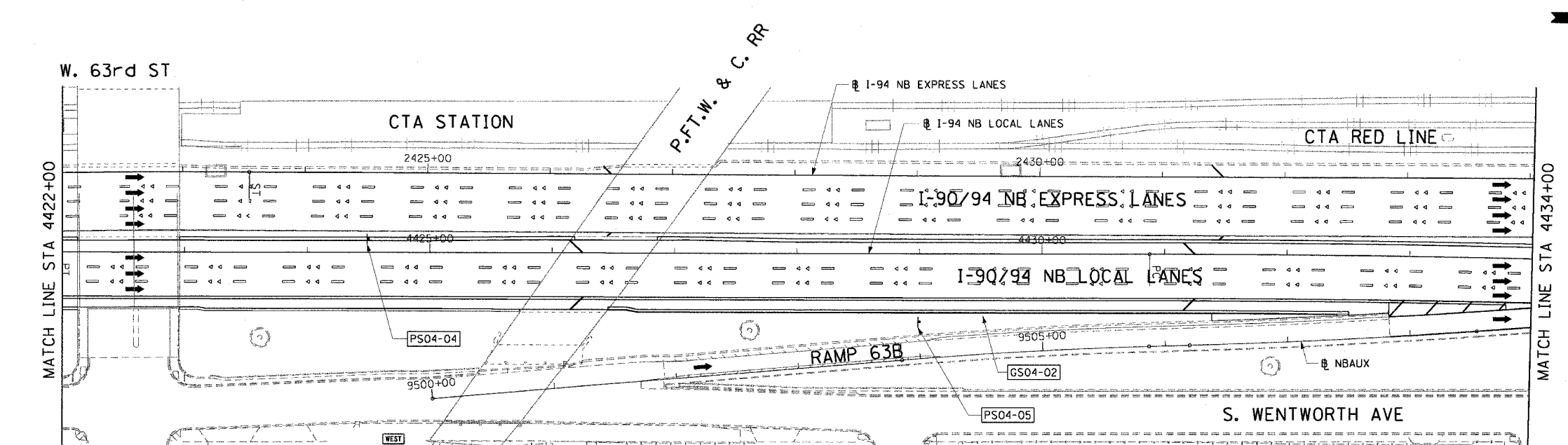
SIGN PANEL-TYPE 3 (212 SQ FT)  
OVERHEAD SIGN STRUCTURE-SPAN (64 FEET)  
OVERHEAD SIGN STRUCTURE WALKWAY (46 FEET)  
DRILLED SHAFT CONCRETE FOUNDATIONS (14.7 CU YD)  
1SS0161094L058.8  
4421+30  
PS04-02

REMOVE SIGN PANEL ASSEMBLY-TYPE B (1 EACH)  
4412+50, 31' RT  
GS04-01

W4-3R (48"x48")  
SIGN PANEL-TYPE 2 (16 SQ FT)  
TELESCOPING STEEL SIGN SUPPORT (12 FEET)  
BASE FOR TELESCOPING STEEL SIGN SUPPORT (1 EACH)  
4410+25, 36' RT  
PS04-01

REMOVE OVERHEAD SIGN STRUCTURE-CANTILEVER  
REMOVE CONCRETE FOUNDATION-OVERHEAD (1 EACH)  
4421+19, 51' RT  
ES04-01

WB I-90 TO NB I-90/94 EXPRESS RAMP  
WB I-90 TO NB I-90/94 LOCAL RAMP  
PS04-01



- LEGEND:
- ESXX-XX EXISTING OVERHEAD OR CANTILEVER SIGNS
  - GSXX-XX EXISTING POST MOUNTED SIGNS
  - PSXX-XX PROPOSED SIGNS
- NOTES:
- FOR SIGN PANEL AND TRUSS DETAILS SEE OVERHEAD SIGN STRUCTURE DETAIL SHEETS.
  - FOR SIGNS MOUNTED ON OVERHEAD TRUSS LEGS, A CLEAR HEIGHT OF 6-FEET SHALL BE MAINTAINED.

M3-4 (24"x12"), M1-1 (36"x36"), M1-1 (36"x36")  
SIGN PANEL-TYPE 1 (20 SQ FT)  
TELESCOPING STEEL SIGN SUPPORT (10.5' FEET)  
BASE FOR TELESCOPING STEEL SIGN SUPPORT (1 EACH)  
STA 4424+50, 11' LT  
PS04-04

W4-1R (48"x48")  
SIGN PANEL-TYPE 2 (16 SQ FT)  
WOOD SIGN SUPPRT (17 FEET)  
4429+00, 56' RT  
PS04-05

REMOVE SIGN PANEL ASSEMBLY-TYPE B (1 EACH)  
4429+51, 50' RT  
GS04-02

CTE AECOM

REVISIONS		DATE
NAME		

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

PROPOSED SIGNING PLANS

SCALE: 1"=50'  
DATE: June 9, 2006

DRAWN BY: PHP  
CHECKED BY: RMG

SG-04

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	123
STA. 4434+00	TO STA. 4458+00			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				

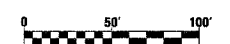
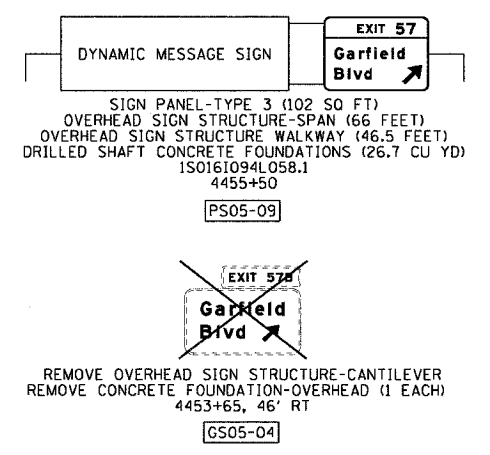
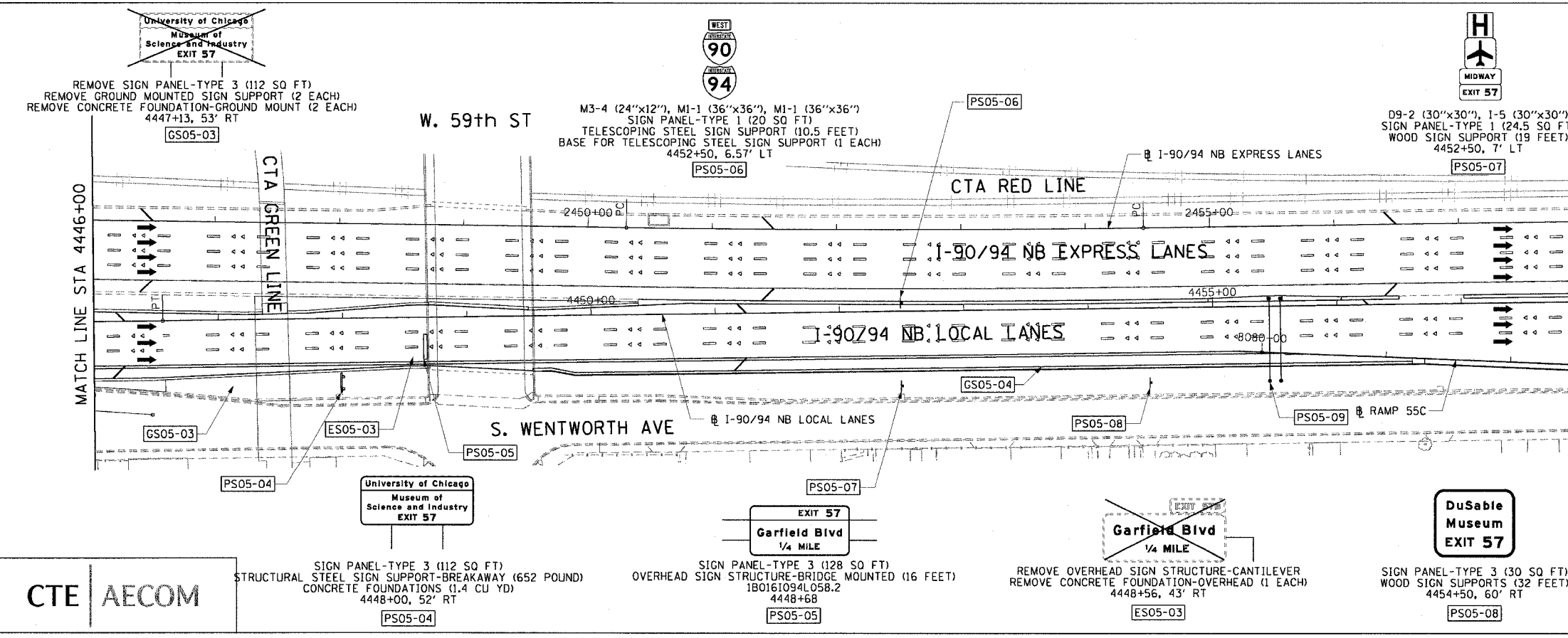
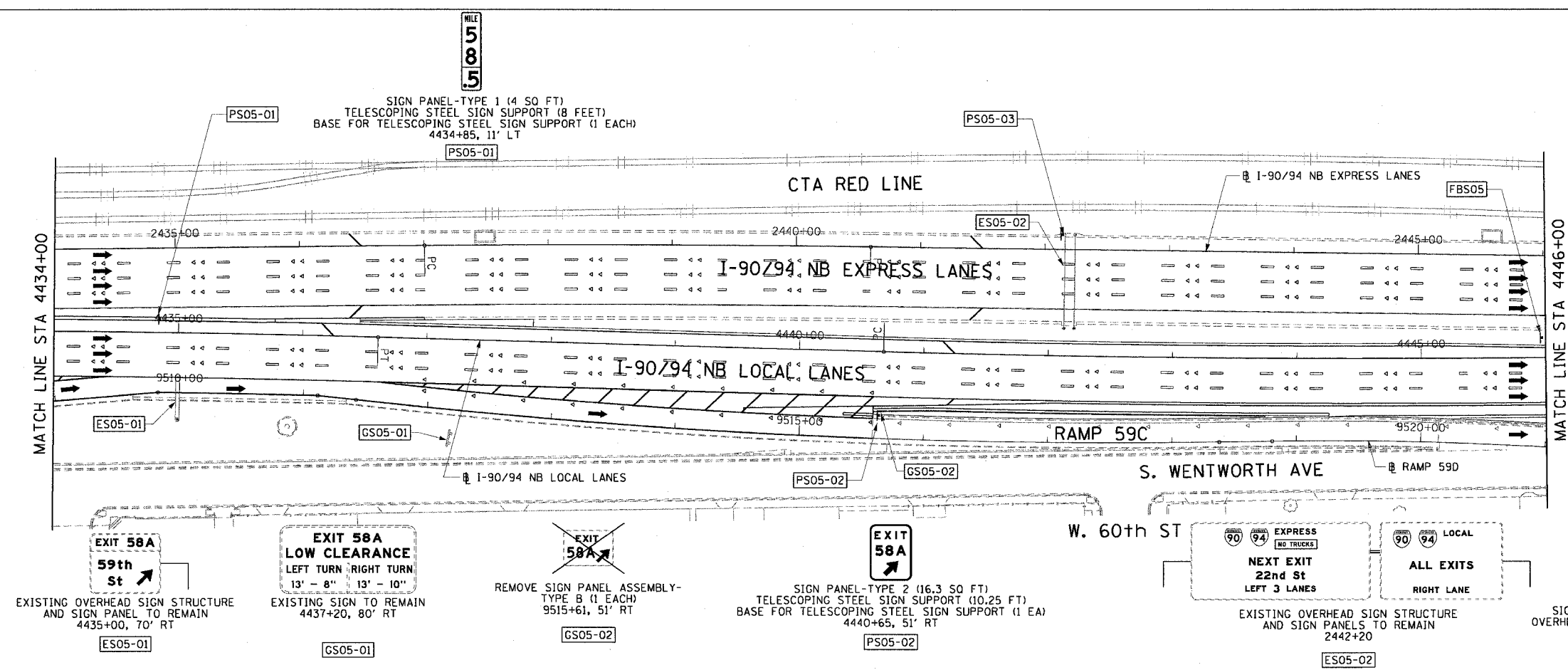


**NOTES:**

- FOR SIGN PANEL AND TRUSS DETAILS SEE OVERHEAD SIGN STRUCTURE DETAIL SHEETS.
- FOR SIGNS MOUNTED ON OVERHEAD SIGN TRUSS LEGS, A CLEAR HEIGHT OF 6-FEET SHALL BE MAINTAINED.
- SEE ROADWAY DETAIL RDT-11 FOR MOUNTING OF PROPOSED SIGN PS05-02.
- THE DYNAMIC MESSAGE SIGN WILL BE PROCURED BY IDOT CONTRACT 62947.
- THE DYNAMIC MESSAGE SIGN WILL BE SUPPLIED BY IDOT CONTRACT 62583.
- THE DYNAMIC MESSAGE SIGN SHALL BE FASTENED TO THE SIGN TRUSS BY THE CONTRACTOR 60A62 CONTRACTOR. THE CONTRACTOR SHALL COORDINATE THE ERECTION OF THE SIGN TRUSS WITH CONTRACT 62583.
- SEE CONTRACT 62583 FOR LOCATION OF FLASHING BEACON SIGN - FBS05. CONTRACTOR SHALL COORDINATE WITH CONTRACT 62583 FOR THE INSTALLATION OF FBS05.
- FOR GROUND AND BARRIER WALL MOUNTED SIGNS, SEE PROPOSED SIGN PANEL DETAILS.

**LEGEND:**

- ESXX-XX EXISTING OVERHEAD OR CANTILEVER SIGNS
- GSXX-XX EXISTING POST MOUNTED SIGNS
- PSXX-XX PROPOSED SIGNS



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

**PROPOSED SIGNING PLANS**

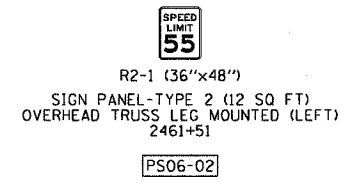
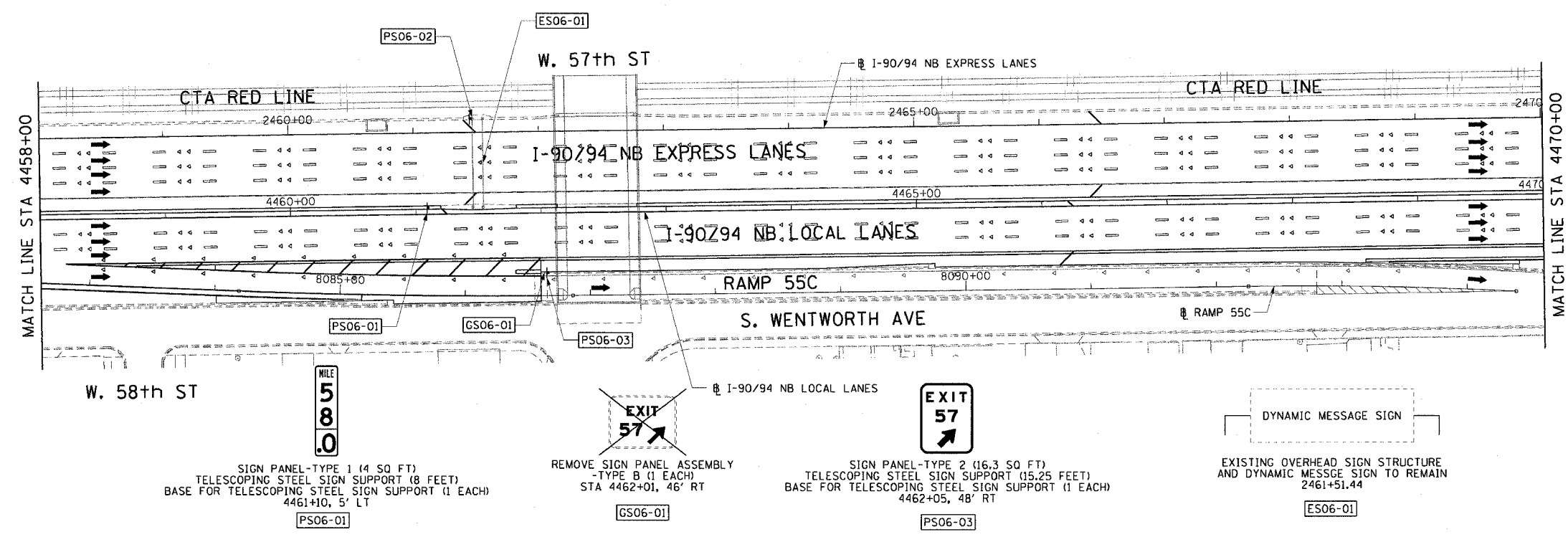
SCALE: 1"=50'  
 DATE: June 9, 2006

DRAWN BY: PHP  
 CHECKED BY: RMC

**CTE AECOM**

3-16-29 744  
 6/5/2006  
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	124
STA. 4458+00		TO STA. 4474+50		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



PS06-01  
SIGN PANEL-TYPE 1 (4 SQ FT)  
TELESCOPING STEEL SIGN SUPPORT (8 FEET)  
BASE FOR TELESCOPING STEEL SIGN SUPPORT (1 EACH)  
4461+10, 5' LT

GS06-01  
REMOVE SIGN PANEL ASSEMBLY  
-TYPE B (1 EACH)  
STA 4462+01, 46' RT

PS06-03  
SIGN PANEL-TYPE 2 (16.3 SQ FT)  
TELESCOPING STEEL SIGN SUPPORT (15.25 FEET)  
BASE FOR TELESCOPING STEEL SIGN SUPPORT (1 EACH)  
4462+05, 48' RT

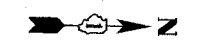
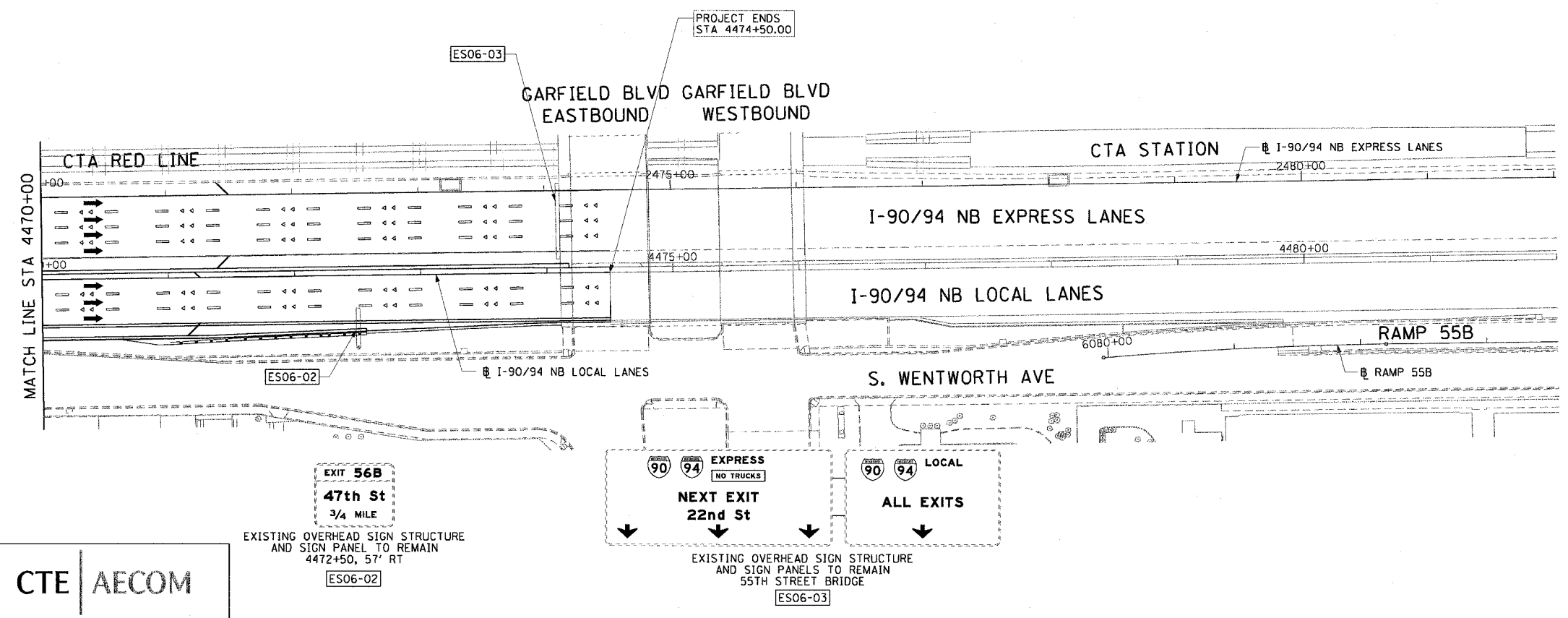
ES06-01  
EXISTING OVERHEAD SIGN STRUCTURE  
AND DYNAMIC MESSAGE SIGN TO REMAIN  
2461+51.44

LEGEND:

- ESXX-XX EXISTING OVERHEAD OR CANTILEVER SIGNS
- GSXX-XX EXISTING POST MOUNTED SIGNS
- PSXX-XX PROPOSED SIGNS

NOTES:

1. FOR SIGN PANEL AND TRUSS DETAILS SEE OVERHEAD SIGN STRUCTURE DETAIL SHEETS.
2. FOR SIGNS MOUNTED ON OVERHEAD TRUSS LEGS, A CLEAR HEIGHT OF 6-FEET SHALL BE MAINTAINED.
3. SEE ROADWAY DETAIL SHEET ROT-11 FOR MOUNTING DETAIL FOR PROPOSED SIGN PS06-03.
4. FOR GROUND AND BARRIER WALL MOUNTED SIGNS, SEE PROPOSED SIGN PANEL DETAILS.

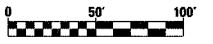


ES06-02  
EXISTING OVERHEAD SIGN STRUCTURE  
AND SIGN PANEL TO REMAIN  
4472+50, 57' RT

GS06-03  
EXISTING OVERHEAD SIGN STRUCTURE  
AND SIGN PANELS TO REMAIN  
55TH STREET BRIDGE

CTE | AECOM

REVISIONS	
NAME	DATE



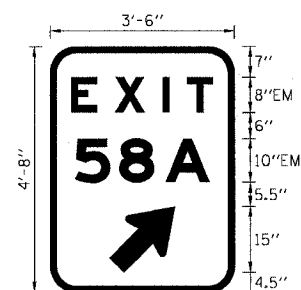
SG-06  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
**PROPOSED SIGNING PLANS**  
SCALE: 1"=50'  
DATE: June 9, 2006  
DRAWN BY: PHP  
CHECKED BY: RMC

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	125
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				

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SIGN DETAIL



BORDER CORNER RADIUS = 6"  
THICKNESS = 1"

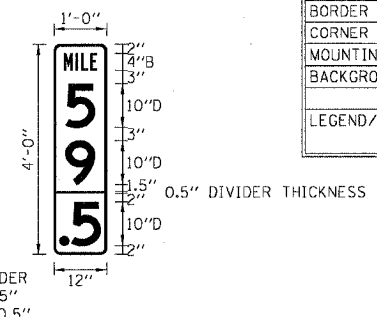
SIGN NUMBER	PS05-02
WIDTH x HEIGHT	3'-6" x 4'-8"
BORDER WIDTH	1.5"
CORNER RADIUS	6"
MOUNTING	BARRIER/RETAINING WALL
BACKGROUND	TYPE: REFLECTIVE
LEGEND/BORDER	COLOR: GREEN
	TYPE: REFLECTIVE
	COLOR: WHITE

SYMBOL	X	Y	WID	HT
ARUP	13.5	4.6	12.6	18.9

DIMENSIONS ARE IN INCHES, TENTHS LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

LETTER POSITIONS (X)				LENGTH SERIES, SIZE	
E	X	I	T		
4.8	14.7	25.7	31.3	32.3	EM8
5	8	A		30.6	EM10
5.7	15.7	26.3			

SIGN DETAIL



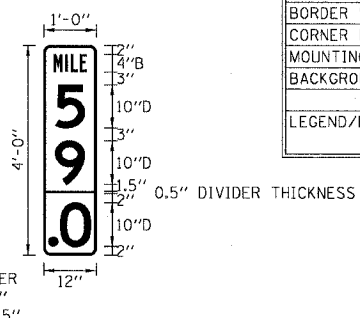
BORDER R=1.5"  
TH=0.5"

SIGN NUMBER	MM59.5
WIDTH x HEIGHT	1'-0" x 4'-0"
BORDER WIDTH	0.5"
CORNER RADIUS	1.5"
MOUNTING	BARRIER/RETAINING WALL
BACKGROUND	TYPE: REFLECTIVE
LEGEND/BORDER	COLOR: Green
	TYPE: REFLECTIVE
	COLOR: White

DIMENSIONS ARE IN INCHES, TENTHS LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

LETTER POSITIONS (X)				LENGTH SERIES, SIZE	
M	I	L	E		
2.3	5	6.2	8.3	7.5	B4
5				6.8	D10
2.6				6.8	D10
9				9.5	D10
2.6					
.	5				
1.2	3.9				

SIGN DETAIL



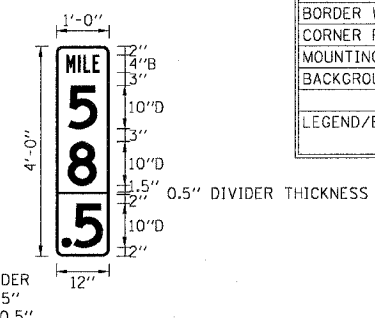
BORDER R=1.5"  
TH=0.5"

SIGN NUMBER	MM59.0
WIDTH x HEIGHT	1'-0" x 4'-0"
BORDER WIDTH	0.5"
CORNER RADIUS	1.5"
MOUNTING	BARRIER/RETAINING WALL
BACKGROUND	TYPE: REFLECTIVE
LEGEND/BORDER	COLOR: GREEN
	TYPE: REFLECTIVE
	COLOR: WHITE

DIMENSIONS ARE IN INCHES, TENTHS LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

LETTER POSITIONS (X)				LENGTH SERIES, SIZE	
M	I	L	E		
2.3	5	6.2	8.3	7.5	B4
5				6.8	D10
2.6				6.8	D10
9				9.8	D10
2.6					
.	0				
1.1	3.8				

SIGN DETAIL



BORDER R=1.5"  
TH=0.5"

SIGN NUMBER	MM58.5
WIDTH x HEIGHT	1'-0" x 4'-0"
BORDER WIDTH	0.5"
CORNER RADIUS	1.5"
MOUNTING	BARRIER/RETAINING WALL
BACKGROUND	TYPE: REFLECTIVE
LEGEND/BORDER	COLOR: GREEN
	TYPE: REFLECTIVE
	COLOR: WHITE

DIMENSIONS ARE IN INCHES, TENTHS LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

LETTER POSITIONS (X)				LENGTH SERIES, SIZE	
M	I	L	E		
2.3	5	6.2	8.3	7.5	B4
5				6.8	D10
2.6				6.6	D10
8				9.5	D10
2.6					
.	5				
1.2	3.9				

REVISIONS	
NAME	DATE

SPD-01

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

PROPOSED SIGN PANEL DETAILS

SCALE: 1"=20'  
DATE: June 9, 2006

DRAWN BY: SWANG  
CHECKED BY: XXX

6/5/2006 3:36:32 PM



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SIGN DETAIL

SIGN NUMBER	PS06-03			
WIDTH x HEIGHT	3'-6" x 4'-8"			
BORDER WIDTH	1.5"			
CORNER RADIUS	6"			
MOUNTING	BARRIER/RETAINING WALL			
BACKGROUND	TYPE: REFLECTIVE			
	COLOR: GREEN			
LEGEND/BORDER	TYPE: REFLECTIVE			
	COLOR: WHITE			

SYMBOL	X	Y	WID	HT
ARUP	13.5	4.6	12.6	18.9

BORDER CORNER RADIUS = 6"  
THICKNESS = 1"

DIMENSIONS ARE IN INCHES.TENTHS      LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

LETTER POSITIONS (X)				LENGTH SERIES, SIZE	
E	X	I	T		
4.8	14.7	25.7	31.3	32.3	EM8
5	7			18	EM10
12	22				

SIGN DETAIL

SIGN NUMBER	MM58.0	
WIDTH x HEIGHT	1'-0" x 4'-0"	
BORDER WIDTH	0.5"	
CORNER RADIUS	1.5"	
MOUNTING	BARRIER/RETAINING WALL	
BACKGROUND	TYPE: REFLECTIVE	
	COLOR: GREEN	
LEGEND/BORDER	TYPE: REFLECTIVE	
	COLOR: WHITE	

0.5" DIVIDER THICKNESS

BORDER R=1.5"  
TH=0.5"

DIMENSIONS ARE IN INCHES.TENTHS

LETTER POSITIONS (X)				LENGTH SERIES, SIZE	
M	I	L	E		
2.3	5	6.2	8.3	7.5	B4
5				6.8	D10
2.6					
8				6.8	D10
2.6					
.	0			9.8	D10
1.1	3.8				

CTE | AECOM

REVISIONS	
NAME	DATE

SPD-02

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

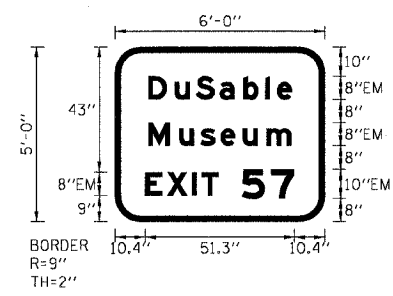
**PROPOSED SIGN PANEL DETAILS**

SCALE: NONE      DRAWN BY: SWANG  
DATE: June 9, 2006      CHECKED BY: XXX

6/5/2006 3:36:33 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	•	COOK	312	127
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
60A62		• (1919.15, 2021-922 PT1 & PT2) R-1		

SIGN DETAIL



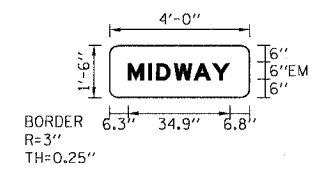
SIGN NUMBER	PS05-03
WIDTH x HEIGHT	6'-0" x 5'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE
	COLOR: BROWN
LEGEND/BORDER	TYPE: REFLECTIVE
	COLOR: WHITE

SYMBOL	X	Y	WID	HT

DIMENSIONS ARE IN INCHES.TENTHS LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

LETTER POSITIONS (X)							LENGTH SERIES, SIZE	
D	u	s	a	b	i	e		
11.4	20.5	27.7	36	44.1	51.7	55.7	49.4	EM8/6
M	u	s	e	u	m		49.2	EM8/6
11.4	22.1	29.4	36.3	43.9	52.1			
E	X	I	T	S	7		51.3	EM8,EM10
10.4	17.9	26.5	29.7	43.6	53.6			

SIGN DETAIL

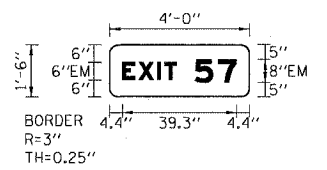


SIGN NUMBER	PS06-06
WIDTH x HEIGHT	4'-0" x 1'-6"
BORDER WIDTH	0.25"
CORNER RADIUS	3"
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE
	COLOR: BLUE
LEGEND/BORDER	TYPE: REFLECTIVE
	COLOR: WHITE

DIMENSIONS ARE IN INCHES.TENTHS LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

LETTER POSITIONS (X)							LENGTH SERIES, SIZE	
M	I	D	W	A	Y		34.9	EM6
6.3	13.3	16	22.1	28.8	35.2			

SIGN DETAIL



SIGN NUMBER	PS06-06
WIDTH x HEIGHT	4'-0" x 1'-6"
BORDER WIDTH	0.25"
CORNER RADIUS	3"
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE
	COLOR: BLUE
LEGEND/BORDER	TYPE: REFLECTIVE
	COLOR: WHITE

DIMENSIONS ARE IN INCHES.TENTHS LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

LETTER POSITIONS (X)							LENGTH SERIES, SIZE	
E	X	I	T	S	7		39.3	EM6,EM8
4.4	10	16.4	18.8	29.2	37.3			

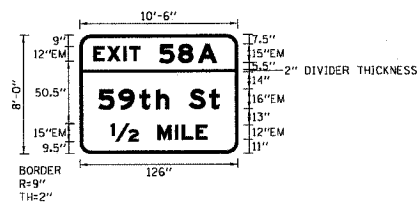
CTE | AECOM

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  PROPOSED SIGN PANEL DETAILS  SCALE: NONE DATE: June 9, 2006	DRAWN BY: SWANG CHECKED BY: XXX
NAME	DATE		
		SPD-03	

p:\2006\9094\9094-18 & 19\sign\180\signing\_plan\spd\60a62\03.dwg 3/36/06 3:36:34 PM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	312	128
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
60A62		• (1919.15, 2021-922 PT1 & PT2) R-1		

SIGN DETAIL

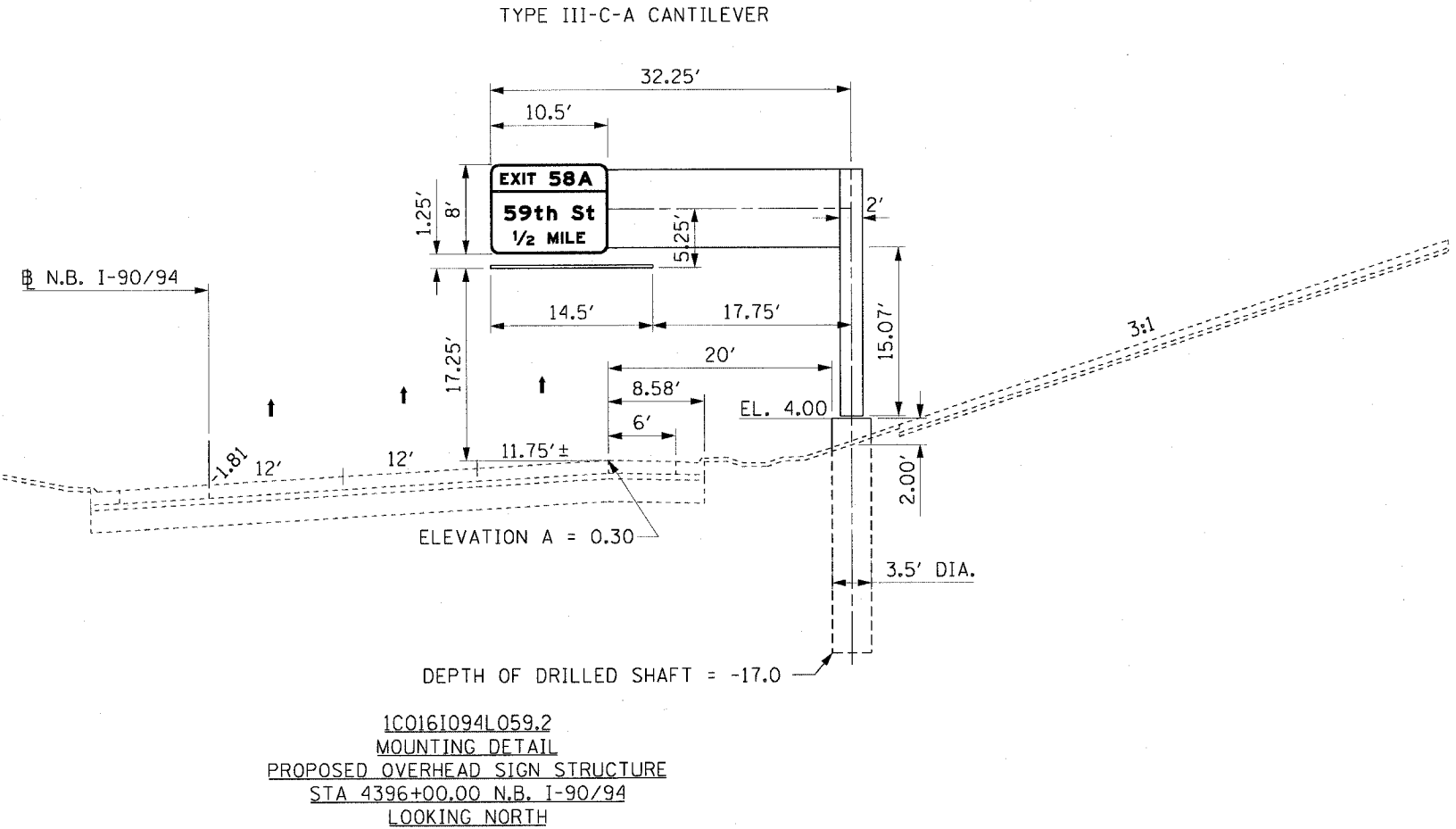


SIGN NUMBER	1C0161094L059.2
WIDTH x HEIGHT	10'-6" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	OVERHEAD
BACKGROUND TYPE	REFLECTIVE
BACKGROUND COLOR	GREEN
LEGEND/BORDER TYPE	REFLECTIVE
LEGEND/BORDER COLOR	WHITE

SYMBOL	X	Y	WID	HT

DIMENSIONS ARE IN INCHES, TENTHS      LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

LETTER POSITIONS (X)											LENGTH SERIES, SIZE	
E	X	I	T	S	B	A					98.7	EM12, EM15
10.7	21.9	34.8	39.6	63.4	78.5	94.4						
5	9	t	h	s	t						96.5	EM16/12
14.7	30.8	47.7	60.8	71	87	103.2						
1/2	M	I	L	E							76.6	EM15, EM12
24.7	61.7	75.8	81.2	92.5								



1C0161094L059.2  
MOUNTING DETAIL  
PROPOSED OVERHEAD SIGN STRUCTURE  
STA 4396+00.00 N.B. I-90/94  
LOOKING NORTH

NOTES:

- EXISTING PAVEMENT FOR LOCAL LANES IS SHOWN FOR INFORMATION ONLY.
- CONTRACTOR SHALL VERIFY ELEVATION "A" BEFORE ORDERING ANY MATERIALS OR STARTING FABRICATION.
- REFER TO ELECTRICAL INFRASTRUCTURE PLANS FOR ORIENTATION AND LOCATION OF THE CONDUIT EMBEDDED IN THE OVERHEAD SIGN FOUNDATIONS.



REVISIONS		NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PERMANENT SIGN PANEL MOUNTING DETAILS  
PROPOSED OVERHEAD SIGN STRUCTURE  
STA. 4396+00.00

SCALE: NONE      DRAWN BY: JSS  
DATE: June 9, 2006      CHECKED BY: RDP

6/21/2006 11:03:32 AM

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 90/94	*	COOK	312	129
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
* 1919.15 & 2021-922 PT. II R-1				

GENERAL NOTES

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

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

LOADING: 90 M.P.H. WIND VELOCITY

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

DESIGN STRESSES:  
Field Units  
f<sub>c</sub> = 3,500 p.s.i.  
f<sub>y</sub> = 60,000 p.s.i. (reinforcement)

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

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W\*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2) of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

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

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

ANCHOR RODS: Shall conform to AASHTO M314 Gr. 55 with a minimum Charpy V-Notch (CVN) energy of 15 lb.-ft. at 10° F.

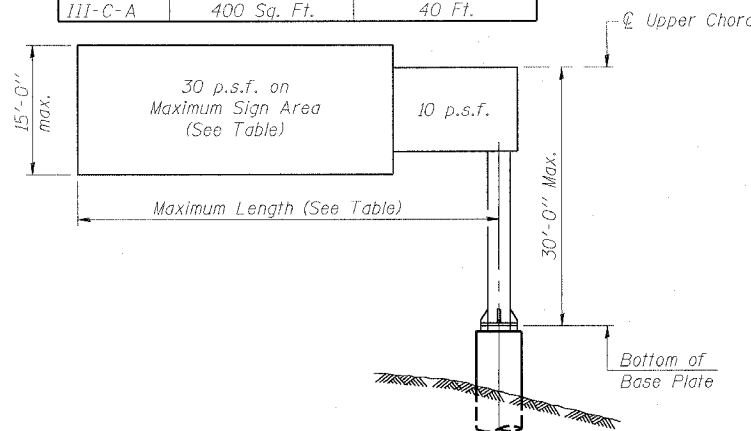
CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

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

\* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

Structure Number	Station	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	D <sub>s</sub>	Total Sign Area
1C0161094L059.2	4396+00.00	III-C-A	32.25'	0.30'	21.75'	8.0'	84 SF

Truss Type	Maximum Sign Area	Maximum Length
I-C-A	170 Sq. Ft.	25 Ft.
II-C-A	340 Sq. Ft.	30 Ft.
III-C-A	400 Sq. Ft.	40 Ft.



DESIGN WIND LOADING DIAGRAM

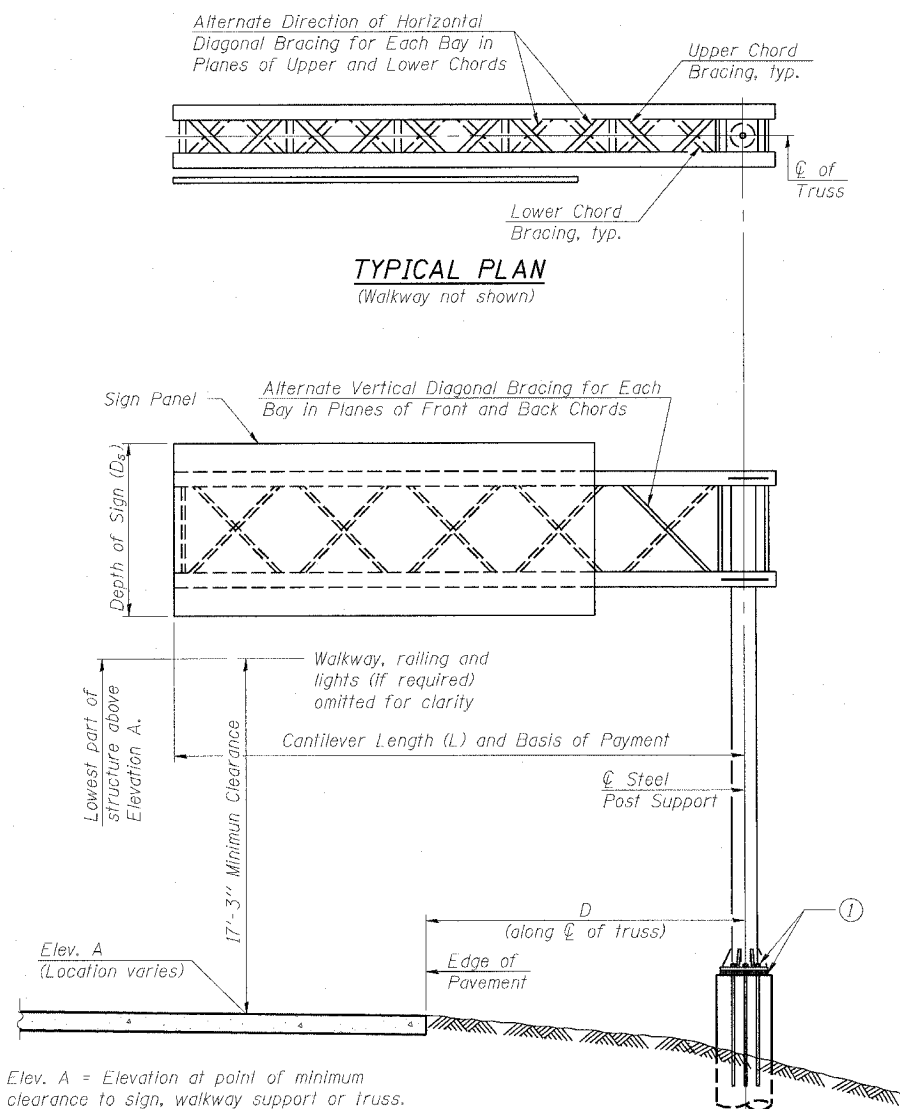
Parameters shown are basis for I.D.O.T. Standards  
Installations not within dimensional limits shown  
require special analysis for all components.

① After adjustments to level truss and insure adequate vertical clearance, all top and leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.

Note:  
Trusses shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The contractor is responsible for maintaining the configuration and protection of the trusses.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE I-C-A	Foot	
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE II-C-A	Foot	
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A	Foot	32.25
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	14.5
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	7.5



TYPICAL ELEVATION

Looking in Direction of Traffic

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to the structure.

DESIGNED - JSS	20
CHECKED - RDP	ENGINEER OF STRUCTURAL SERVICES
DRAWN - JSS	PASSED
CHECKED - RDP	ENGINEER OF BRIDGES AND STRUCTURES

OSC-A-1

1-7-05

NUMBER	REVISION	DATE

CANTILEVER SIGN STRUCTURES  
GENERAL PLAN & ELEVATION  
ALUMINUM TRUSS & STEEL POST

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

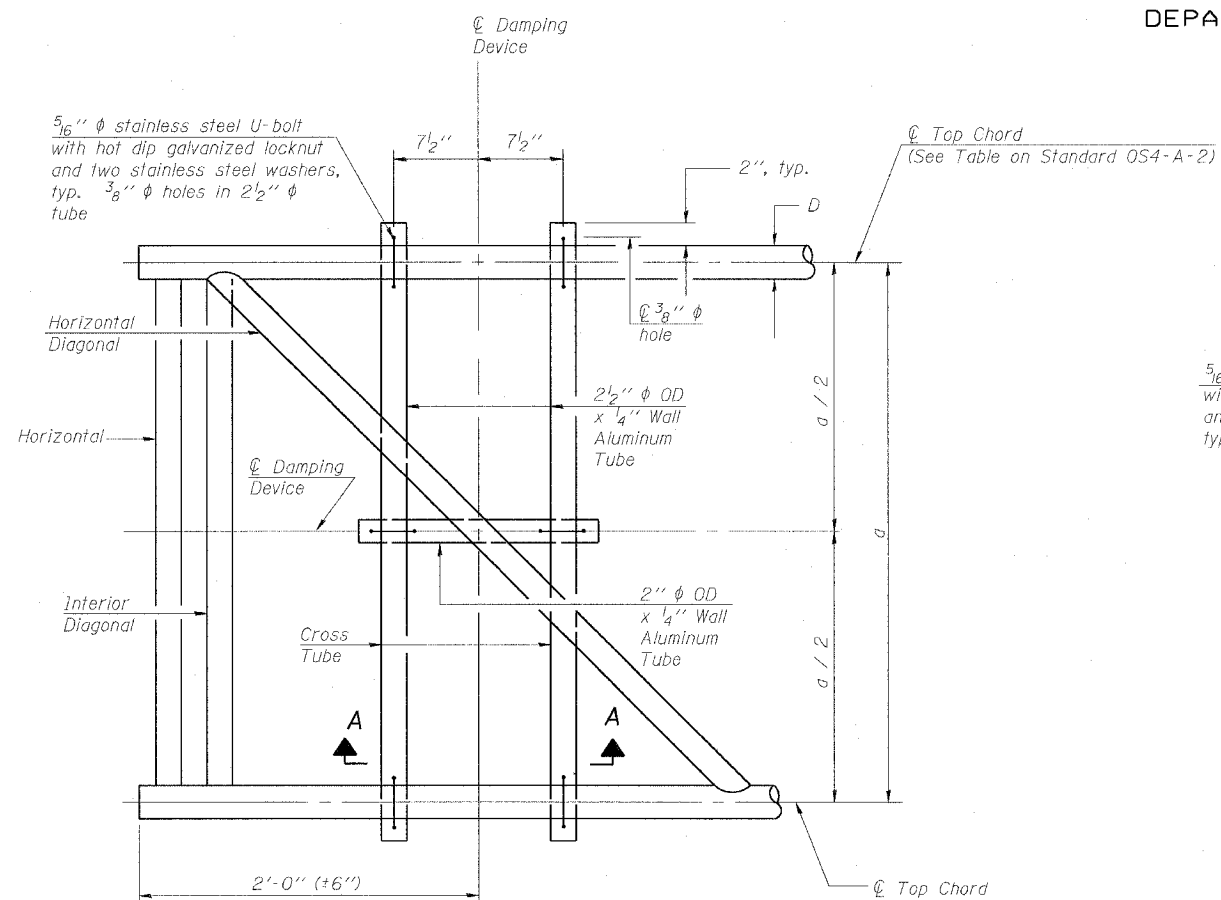
OSS-2

11/4/05 AM 6/2/2006



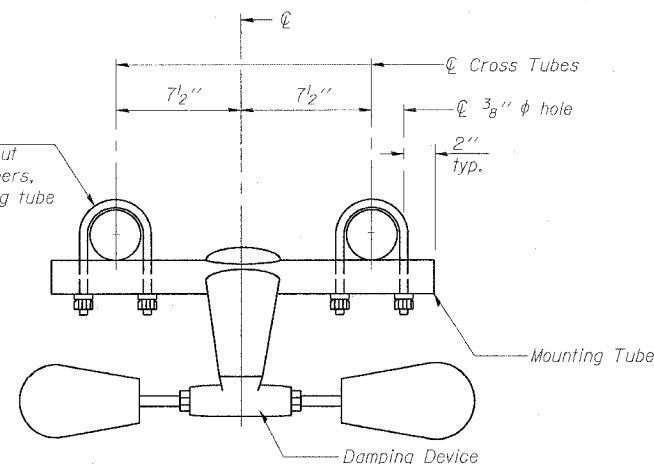
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL
F.A.I. RTE. 90/94		COOK	312	131
FED. AID DIST. NO. 1		ILLINESS	FED. AID PROJECT	
(1919,15 & 2021-922 PT.1) R-1			60A62	

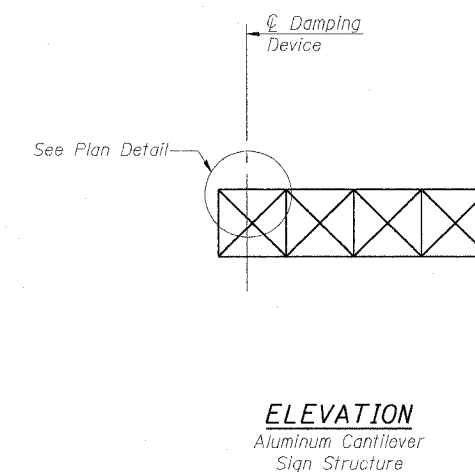


PLAN DETAIL

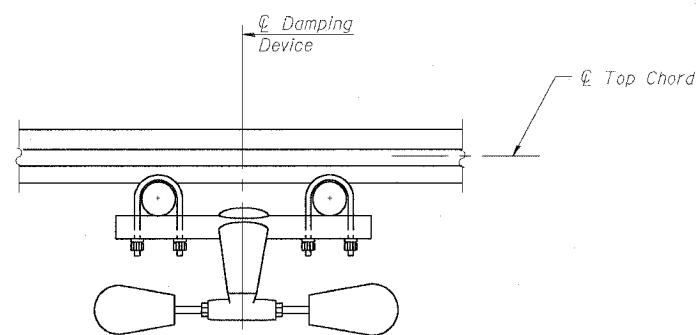
5/16"  $\phi$  stainless steel U-bolt with hot dip galvanized locknut and two stainless steel washers, typ. 3/8"  $\phi$  holes in mounting tube



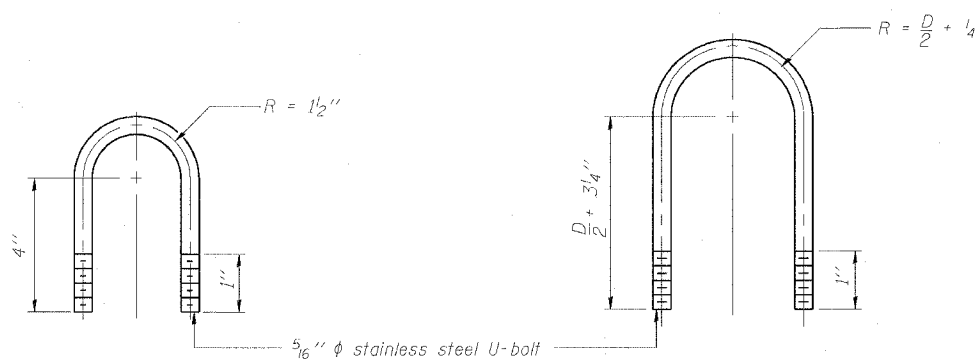
TRUSS DAMPING DEVICE CONNECTION DETAIL



ELEVATION  
Aluminum Cantilever  
Sign Structure



SECTION A-A



DAMPING DEVICE MOUNTING  
TUBE U-BOLT DETAIL  
(Typical)

TOP CHORD TO CROSS TUBE  
U-BOLT DETAIL  
(Typical)

GENERAL NOTES

- Damper: One damper per truss. (31 lbs. Stockbridge-Type Aluminum)
- Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6

DESIGNED - JSS	20
CHECKED - RDP	EXAMINED
DRAWN - JSS	ENGINEER OF STRUCTURAL SERVICES
CHECKED - RDP	PASSED
	ENGINEER OF BRIDGES AND STRUCTURES

OSC-A-D

1-7-05

OSS-4

CANTILEVER SIGN STRUCTURE  
DAMPING DEVICE

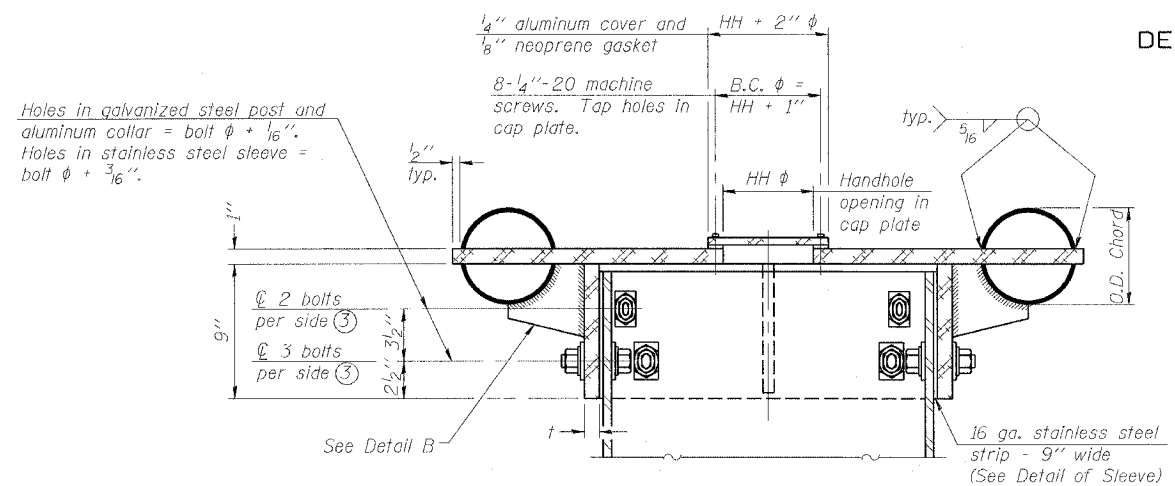
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

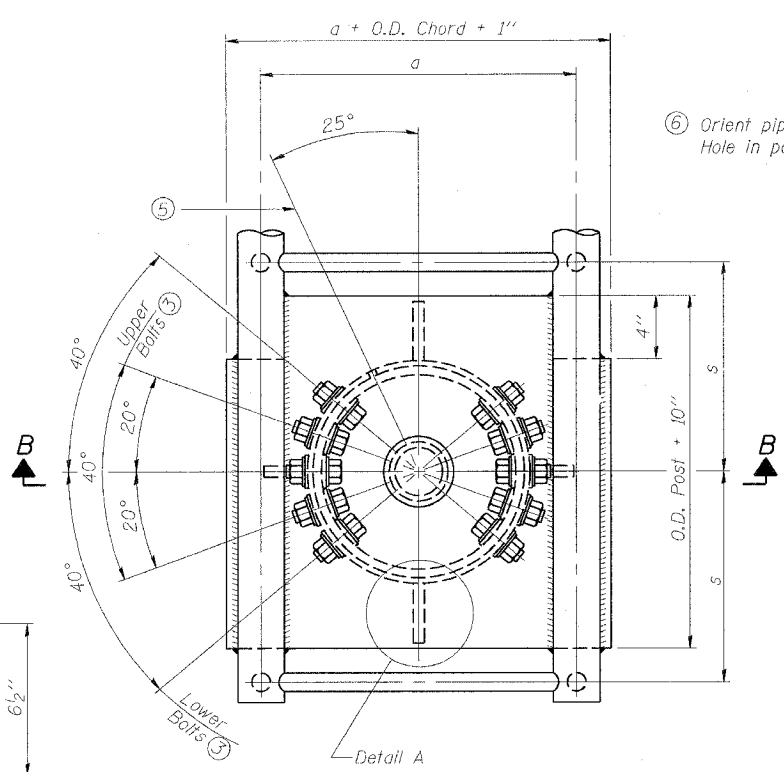
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 90/94		COOK	312	132
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
• (1919,15 & 2021-922 P.T.) R-1				



④ Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus 1/8 inch (± 1/16 inch). Maximum gap between post and collar at any location equals 1/8 inch before tightening bolts.

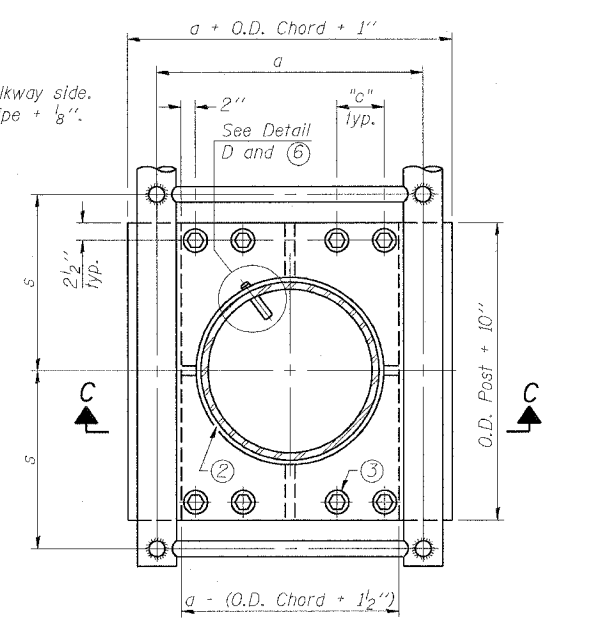
**SECTION B-B**

Bolts, washers (including contoured washers), and locknuts shall be stainless steel.

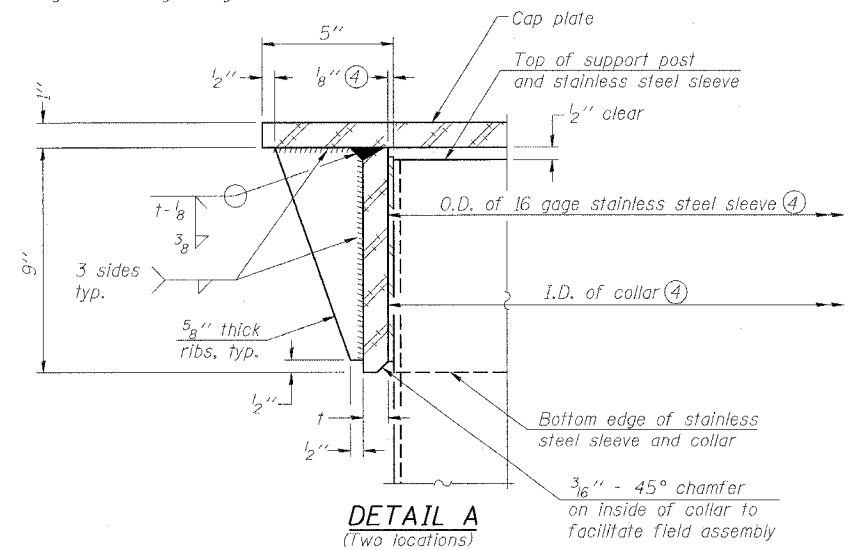


**PLAN VIEW - TOP OF COLUMN**

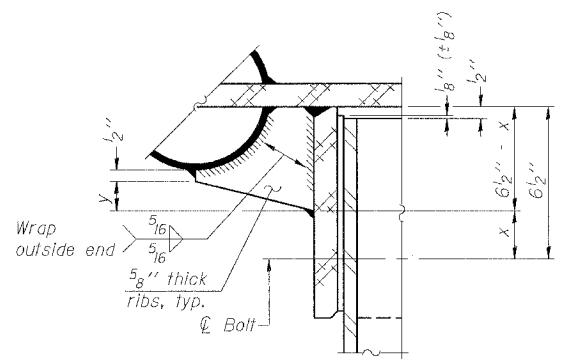
⑤ Optional full penetration weld in collar. (Two locations maximum....(180° apart)....X-ray or UT 100%)



**SECTION THRU POST ABOVE LOWER CHORDS**

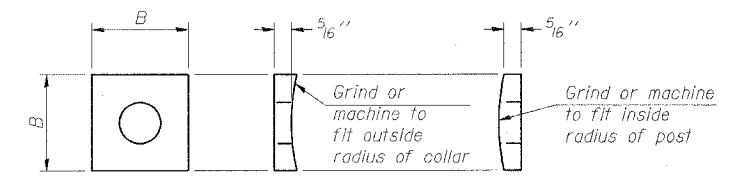


**DETAIL A**  
(Two locations)



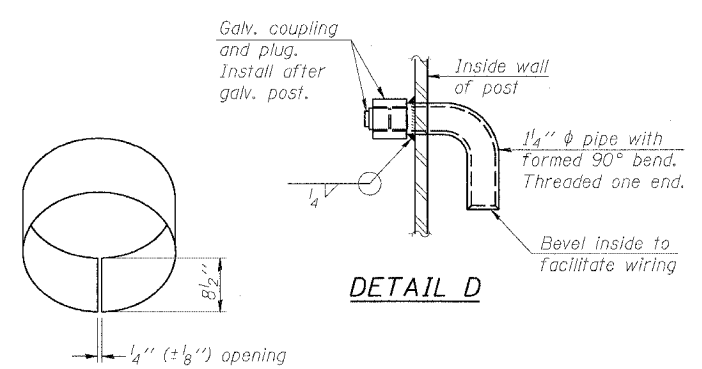
**DETAIL B**

Two locations  
(For details not shown, see Detail C)



**CONTOURED WASHERS**

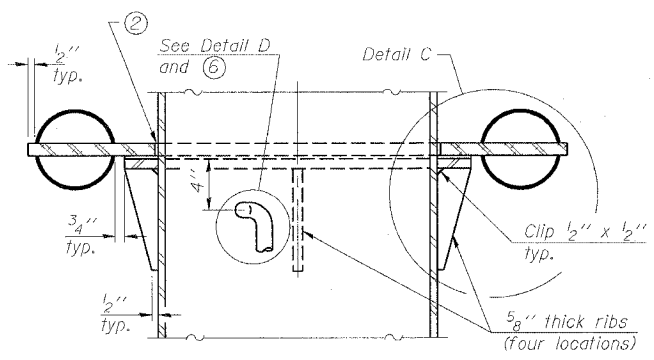
Bolt Size	Contoured Washers	
	Hole Dia.	B
7/8"	1"	2 1/2"
1"	1 1/8"	3"
1 1/4"	1 3/8"	3 1/4"



**DETAIL D**

**DETAIL OF STAINLESS STEEL SLEEVE**

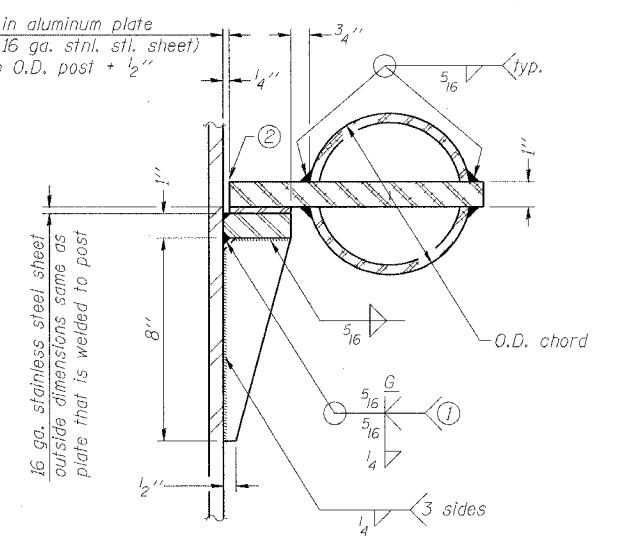
Weld to post after galvanizing. (Prepare post surface to insure tight, uniform fit and allow welding.) Welds to be 1/2 inch long at 6 inch cts. along top edge and at 1/4 inch opening.



**SECTION C-C**

Truss Type	Post Size	Upper & Lower Connection Bolt Diameter ③	Lower Juncture Bolt Spacing Dimension "c" ③	Opening in Cap Plate "HH"	Collar Thickness (t)	Side Ribs	
						x	y
I-C-A	16" φ (83#/#)	7/8"	3 1/4"	8"	5/8"	1 3/4"	2 1/4"
II-C-A	24" φ (125#/#)	1"	3 1/2"	12"	7/8"	2"	1 1/4"
III-C-A (35' max.)	24" φ (125#/#)	1 1/4"	3 1/2"	12"	7/8"	2"	1"
III-C-A (>35' to 40')	24" φ (171#/#)	1 1/4"	3 1/2"	12"	7/8"	2"	1"

③ Upper and lower connection bolts in collar and bolts at lower chord connection shall be high strength with matching locknuts. Connection bolts shall have 2 stainless steel flat washers each.



**DETAIL C**

- ① Grind top if required to fully seat aluminum plate and stainless steel sheet.
- ② After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cost is included in Overhead Sign Structure Cantilever.

**CANTILEVER SIGN STRUCTURES  
JUNCTURE DETAILS  
ALUMINUM TRUSS & STEEL POST**

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

DESIGNED	JSS
CHECKED	RDP
DRAWN	JSS
CHECKED	RDP

EXAMINED	20
PASSED	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

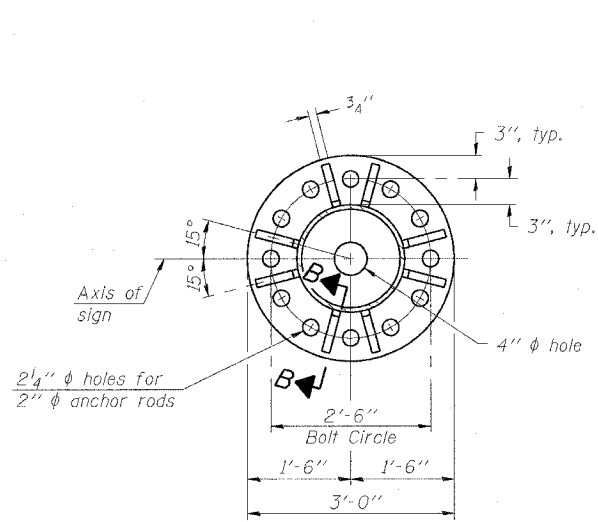
OSC-A-3 1-7-05

OSS-5

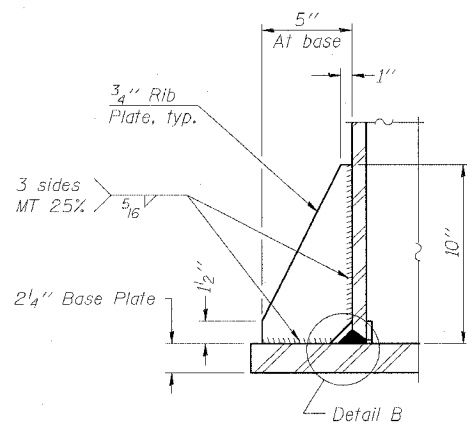
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

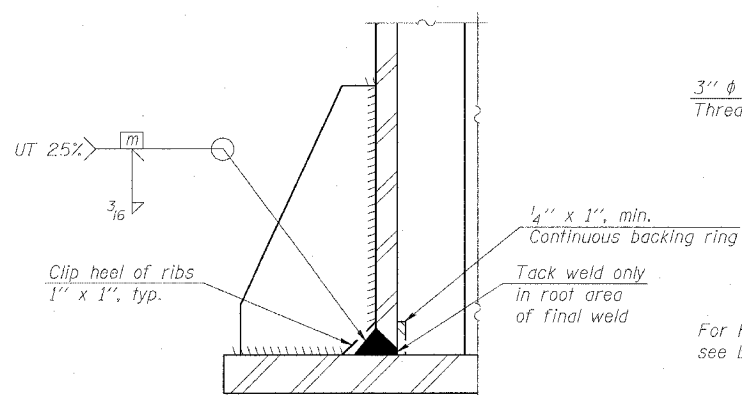
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL
F.A.I. RTE. 90/94		COOK	112	133
FED. AID DIST. NO. 1	ALIGNMENT	FED. AID PROJECT		
11919.15 & 2021-922 PT. II R-1				



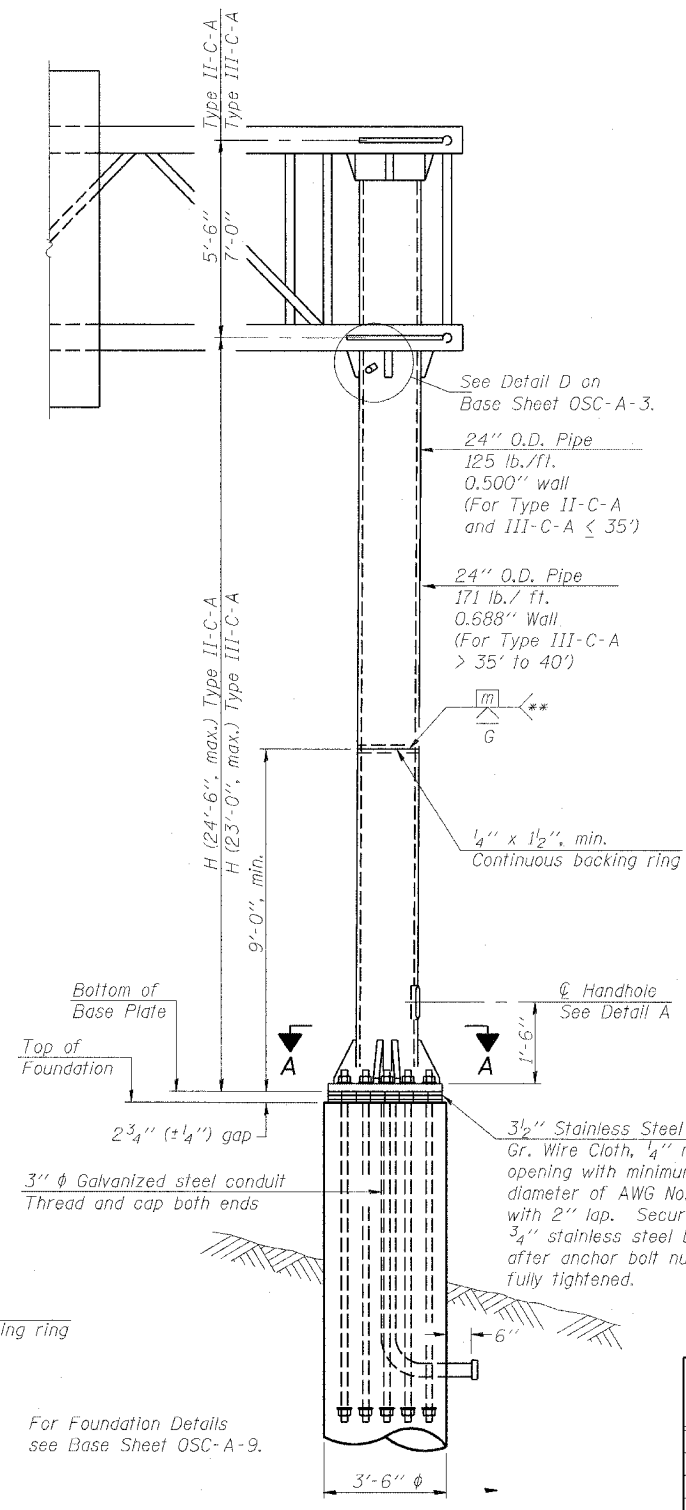
SECTION A-A



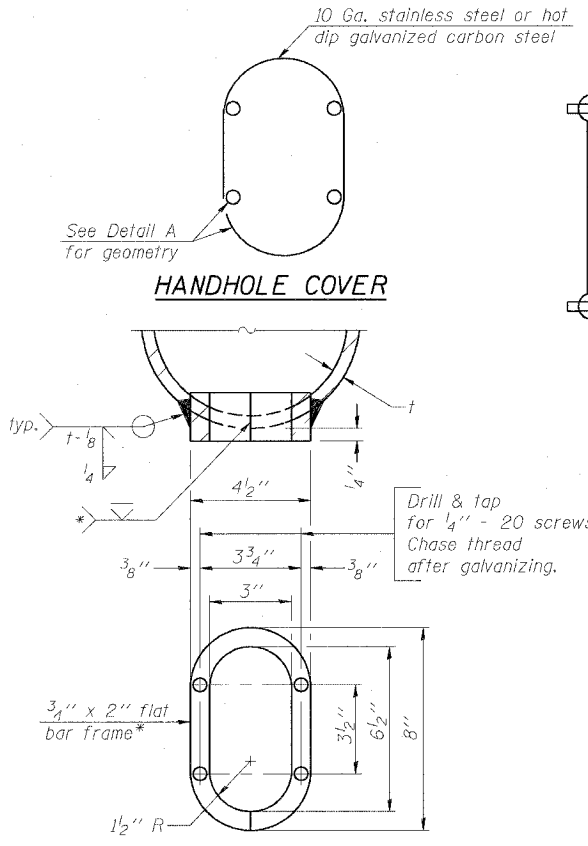
SECTION B-B



DETAIL B  
(Typical rib)



FRONT ELEVATION

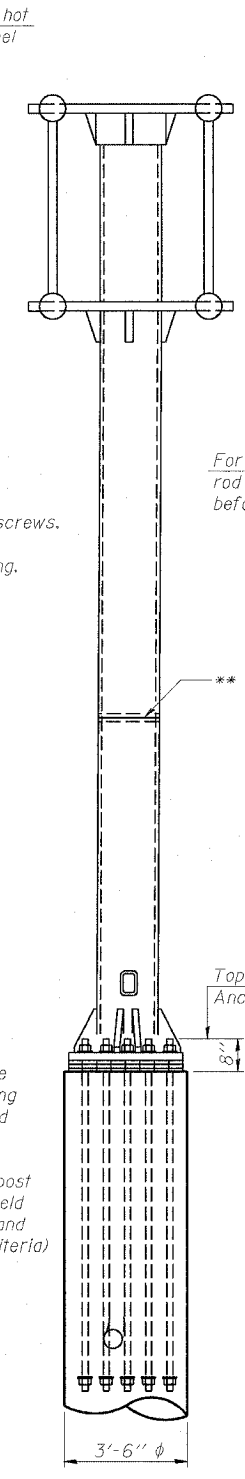


DETAIL A

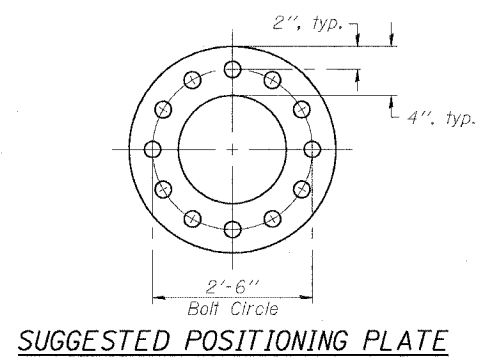
Provide 8" x 4 1/2" cover. Outside corners = 2 1/4" radius. Provide 4 - 5/16"  $\phi$  holes in cover for 1/4" - 20 round head hot dip galvanized or stainless steel machine screws. (See cover details.)

\* Bent bars may be butt welded top and bottom or bottom only. In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500  $\mu$ m or less.

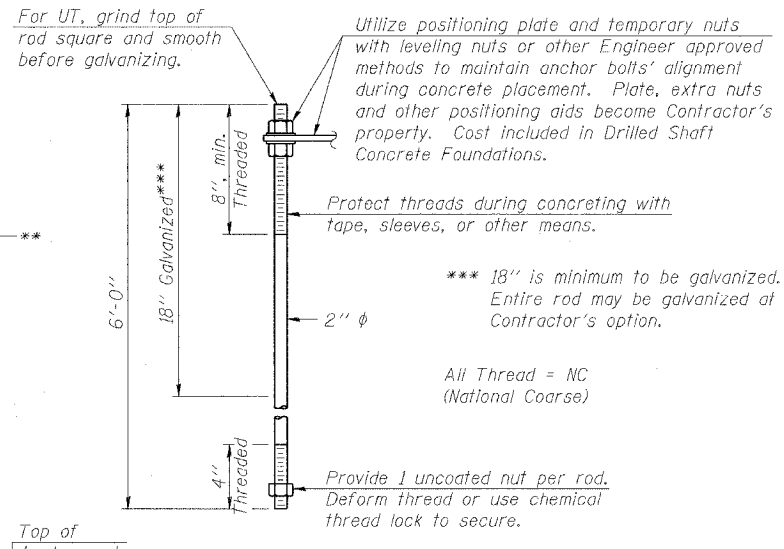
\*\* Butt welded joint in post is only allowed for post heights (H) over 20 ft. in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.



SIDE ELEVATION



SUGGESTED POSITIONING PLATE



ANCHOR ROD DETAIL

Anchor rods shall conform to AASHTO M314 Grade 55 and meet Charpy V-Notch (CVN) energy of 15 lb.-ft. at 10° F. before galvanizing. Galvanize the upper 18" (minimum) and associated M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide an unfinished nut at bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Nuts shall each be tightened with 200 lb.-ft. minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III inspector, qualified in accord with ANSI guidelines, using a straight beam, 1/2"  $\phi$  3.5 mhz. transducer, to insure no rejectable flaws exist in the upper 18" (tension criteria). Cost of testing included in Drilled Shaft Concrete Foundations.

Structure Number	Station	H
IC0161094L059.2	4396+00.00	15.07'

DESIGNED - JSS	20
CHECKED - RDP	EXAMINED
DRAWN - JSS	PASSED
CHECKED - RDP	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

OSC-A-5 1-7-05

OSS-6

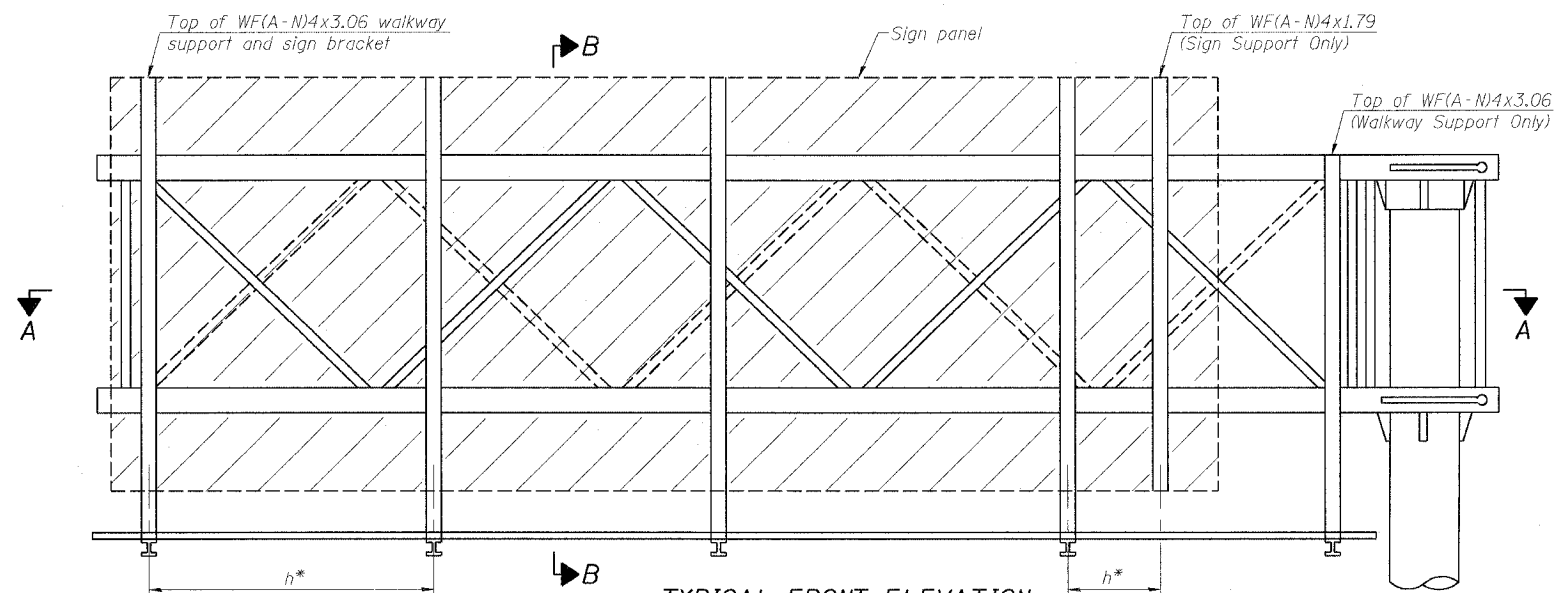
CANTILEVER SIGN STRUCTURES  
TYPE II-C-A & III-C-A TRUSS SUPPORT POST  
ALUMINUM TRUSS & STEEL POST

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

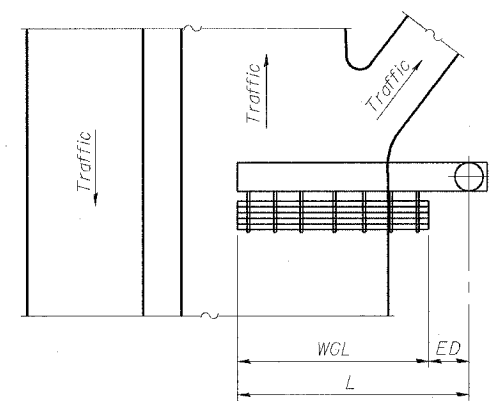
6/27/2006 11:54:41 AM P:\P\06\CONCRETE\CHS 18 & 19\AS\PCNT\BANSIGN\SS18\0602A.dgn

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 90/94	*	COOK	312	134
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT-	
* (1919,15 & 2021-922 PT.) R-1				

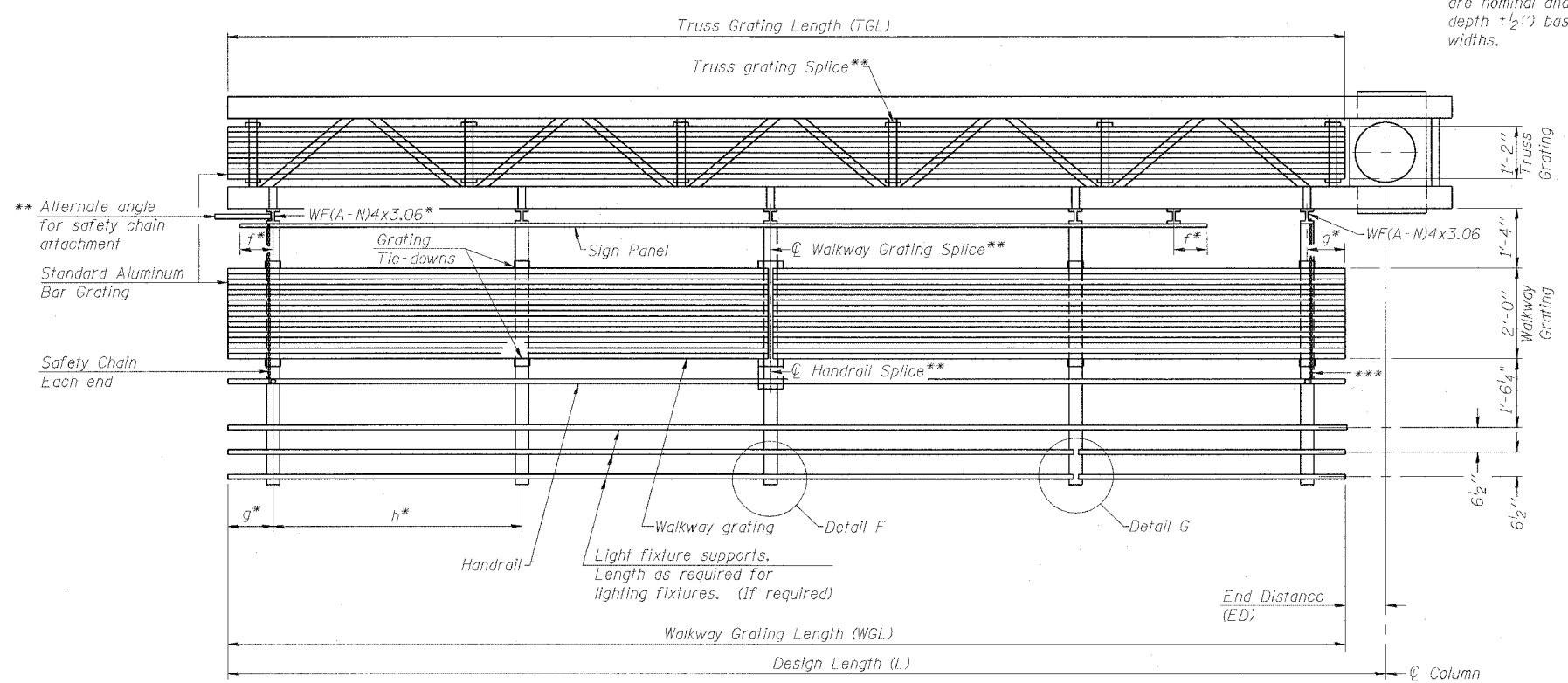


**TYPICAL FRONT ELEVATION**  
With lights and handrail omitted for clarity.



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

Walkway and truss grating dimensions are nominal and may vary (width ±1/2", depth ±1/2") based on available standard widths.



**SECTION A-A**

Truss grating to facilitate inspection shall run full length of cantilevers. Cost of truss grating is included in Overhead Sign Structure Cantilever.

Handrail and walkway grating shall span a minimum of three brackets between splices. \*\* Use and location of handrail or grating splices are optional, based on lengths needed and material availability.

$$TGL = L - \left( \frac{\text{Post O.D.} + 6''}{2} \right)$$

DESIGNED	- JSS
CHECKED	- RDP
DRAWN	- JSS
CHECKED	- RDP

EXAMINED	20
PASSED	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

OSC-A-6 1-7-05

Structure Number	Station	WGL	ED	TGL
1C0161094L059.2	4396+00.00	14.5'	17.75'	30.75'

Notes:  
\* Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:  
f = 12" maximum, 4" minimum (End of sign to center of nearest bracket)  
g = 12" maximum, 4" minimum (End of walkway to center of nearest bracket)  
h = 6'-0" maximum (center to center sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)  
\*\*\* If walkway bracket at safety chain location is behind sign, add angle to bracket.  
For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see Base Sheet OSC-A-7.  
For details of handrail, handrail splice, safety chain and Details F and G, see Base Sheet OSC-A-8.

**BRACKET TABLE**

Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
8'-0"	8'-0"	2
14'-0"	14'-0"	3
20'-0"	20'-0"	4
26'-0"	26'-0"	5
32'-0"	32'-0"	6

**CANTILEVER SIGN STRUCTURES  
ALUMINUM WALKWAY DETAILS  
ALUMINUM TRUSS & STEEL POST**

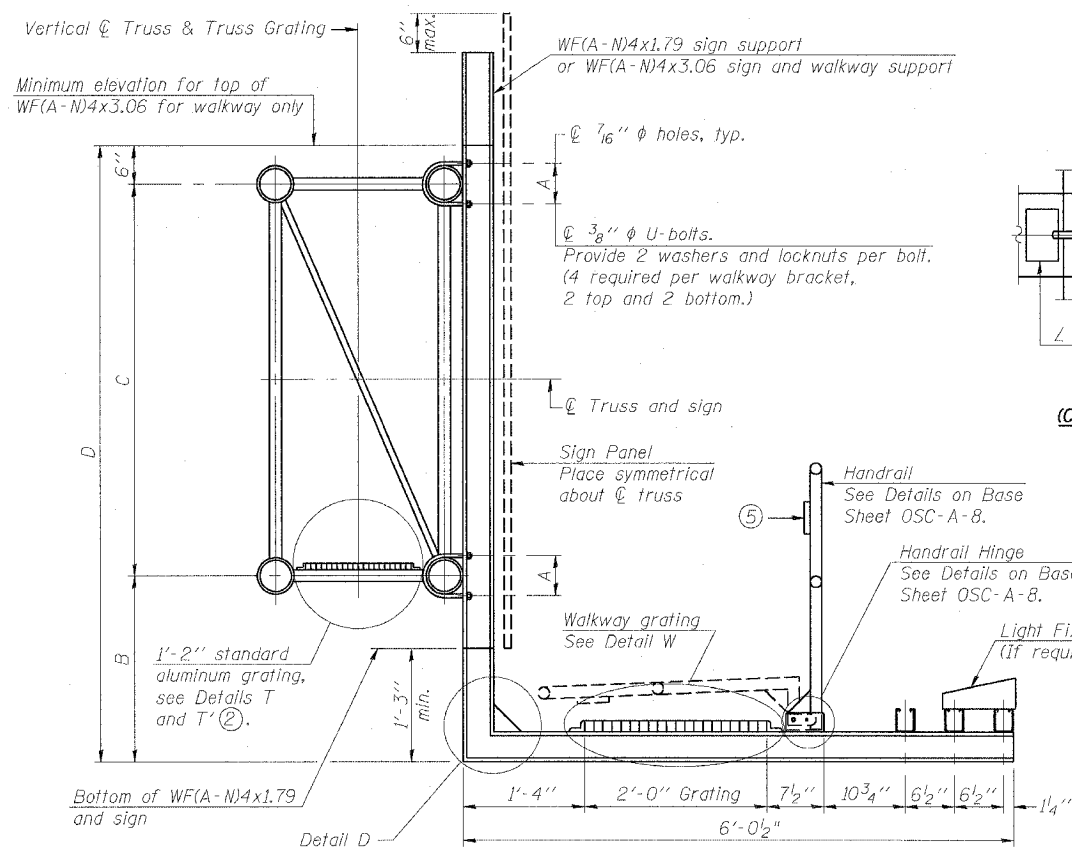
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

OSS-7

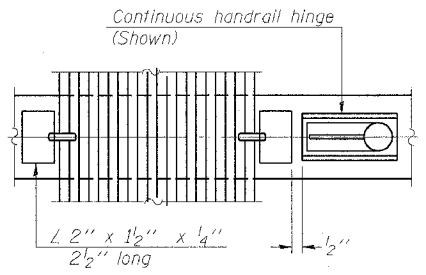
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

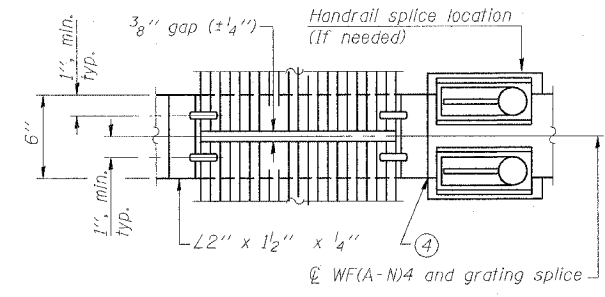
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 90/94		COOK	312	135
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
• (1915,15 & 2021-922 P1.1) R-1				



SECTION B-B

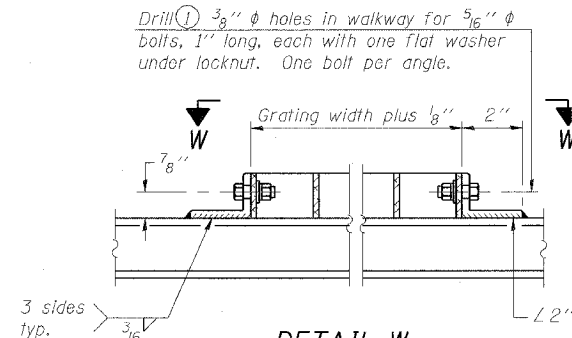


(CONTINUOUS WALKWAY GRATING)

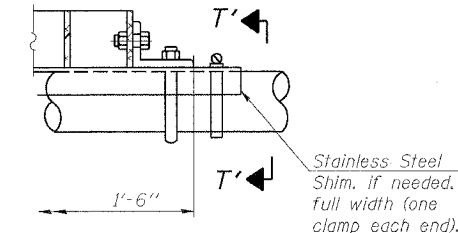


(AT WALKWAY GRATING SPLICE)

SECTION W-W

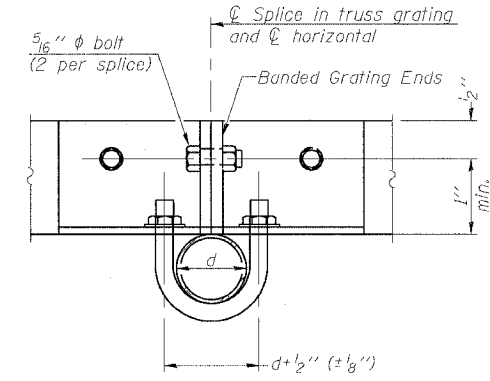


DETAIL W  
(Walkway grating)

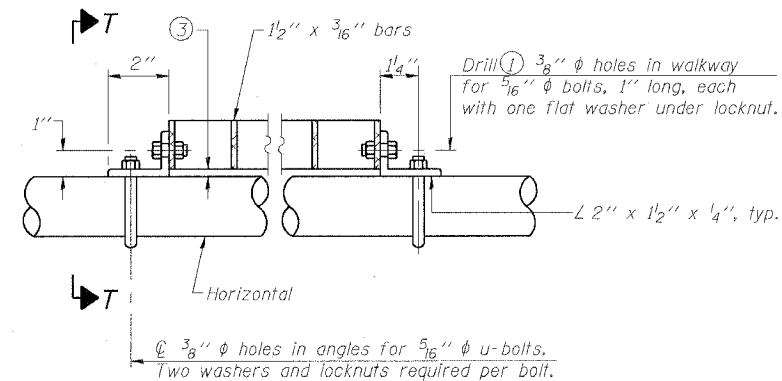


DETAIL T'  
(Truss grating splice)

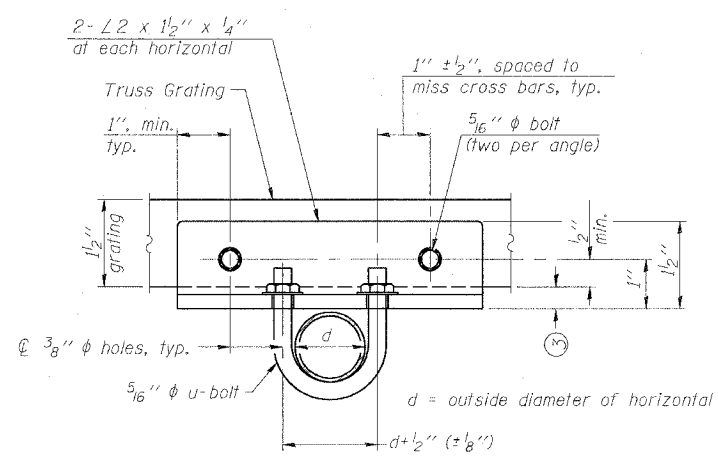
Details not shown same as Detail T. Alternate materials may be used subject to the Engineer's review and approval.



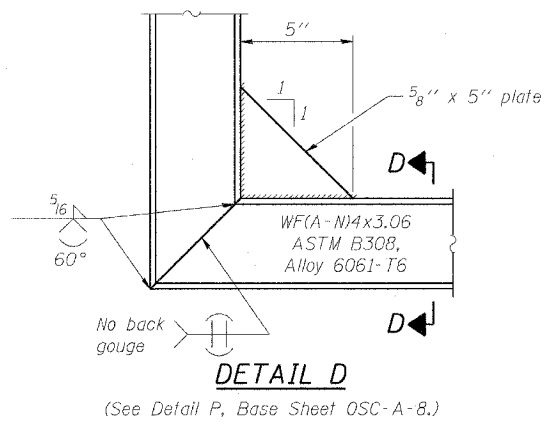
SECTION T'-T'



DETAIL T  
(Truss grating at horizontal)

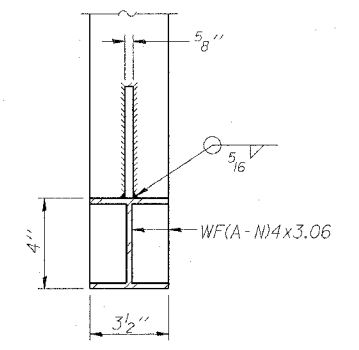


SECTION T-T



DETAIL D

(See Detail P, Base Sheet OSC-A-8.)



SECTION D-D

NUMBER	REVISION	DATE

DESIGNED - JSS	20
CHECKED - RDP	EXAMINED
DRAWN - JSS	PASSED
CHECKED - RDP	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

OSC-A-7 1-7-05

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- When truss grating must be spliced, use suggested detail or other methods subject to the Engineer's review and approval. Locate splice to avoid interference between cross bars and bolt locations.
- Tube to grating gap may vary from 0 to 1/2 inch, max. to align walkway, allow for camber, etc.
- If Handrail Joint present, weld angle to WF(A-N)4 and 1/4 inch extension bars. (See Base Sheet OSC-A-8)
- 1/8 inch x 1/2 inch x 2 inch welded to handrail posts to protect locations that contact grating.

Structure Number	Station	A	B	C	D
IC0161094L059.2	4396+00.00	7 1/2"	1'-9"	7'-0"	9'-3"

OSS-8

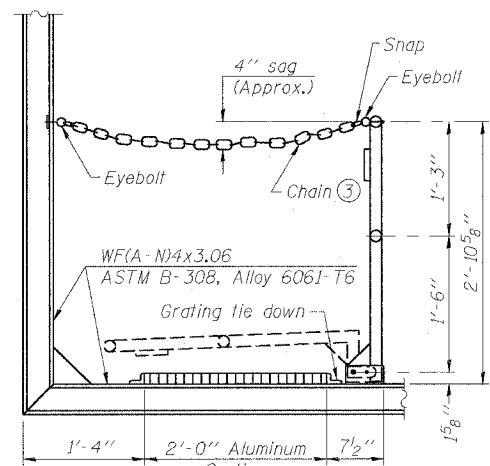
**CANTILEVER SIGN STRUCTURES  
WALKWAY DETAILS  
ALUMINUM TRUSS & STEEL POST**

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

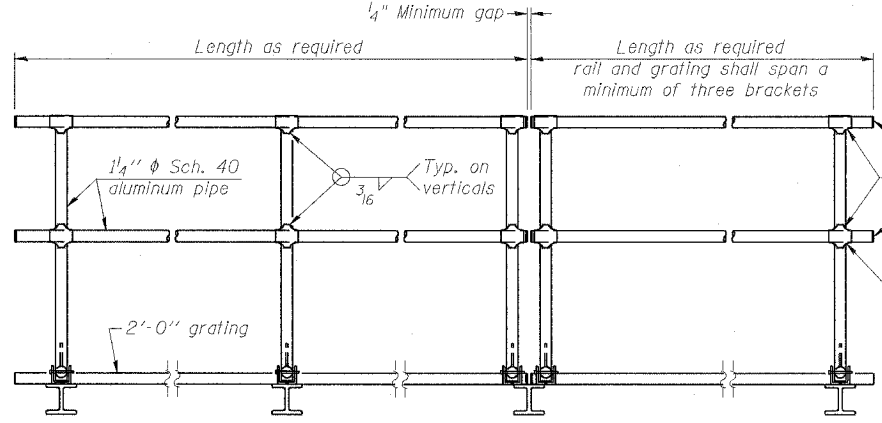
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
F.A.I. RTE. 90/94		COOK	312	136
FED. AID DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
11919.15 & 2021-922 PT.11 R-1			60A62	



**SIDE ELEVATION**  
(Showing Safety Chain W/O Sign)

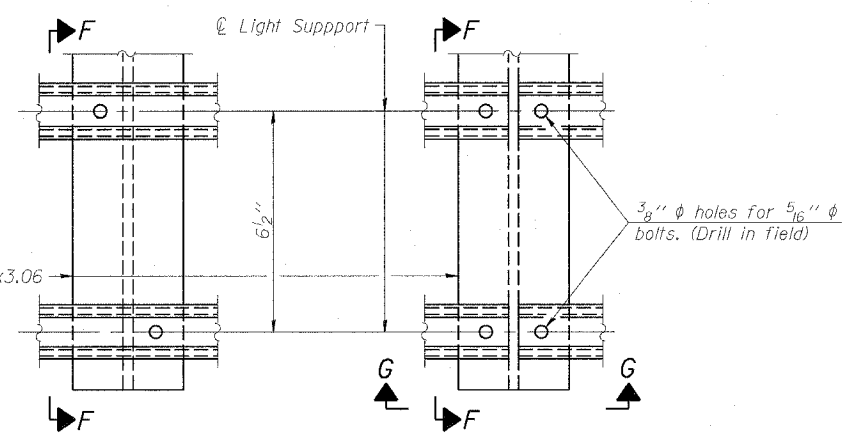


**FRONT ELEVATION**

**HANDRAIL DETAILS**

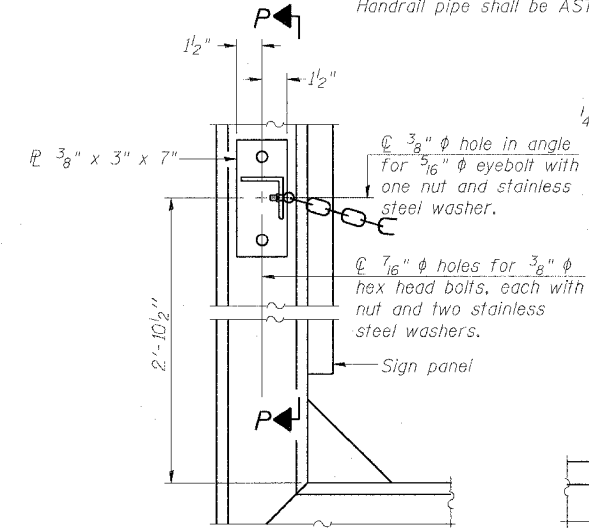
Handrail pipe shall be ASTM B241, Alloy 6063-T6 or Alloy 6061-T6.

- ① Install standard force-fit end caps or weld 1/8" end plates with 1/8" c.f.w. and grind smooth. (All rail ends)
- ② Horizontal handrail member shall be continuous thru fitting. Provide 7/16" hole in fitting for 3/8" bolt. Field drill 7/16" hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 5/16" eyebolts in 7/16" holes on top rail at ends only.)

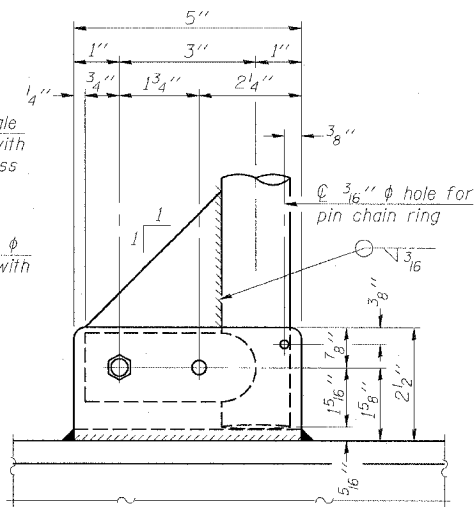


**DETAIL F**

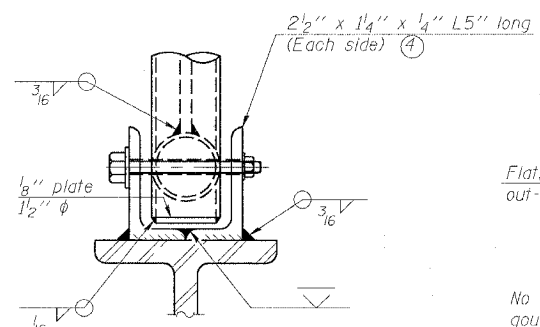
**DETAIL G**



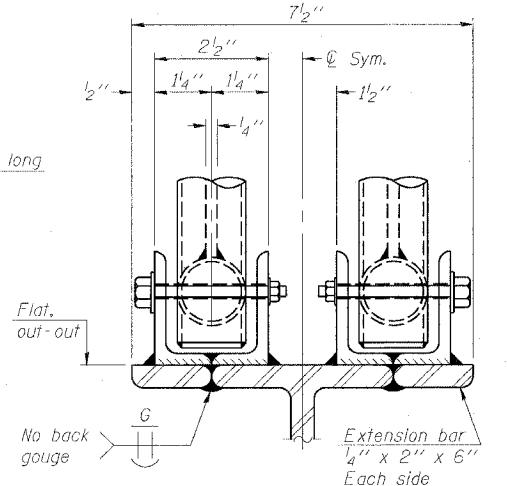
**ALTERNATE SAFETY CHAIN ATTACHMENT**  
(With Sign Present)



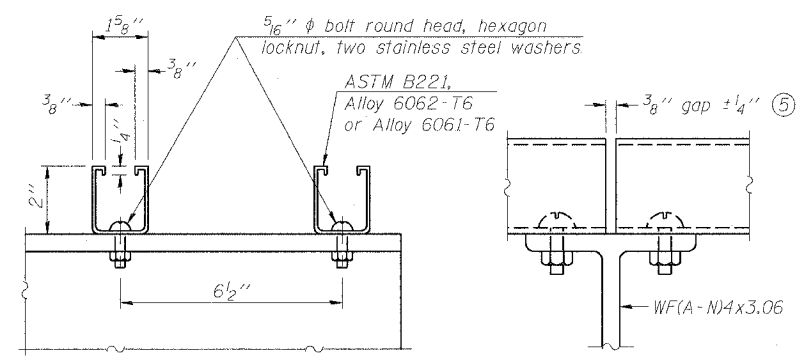
**SIDE ELEVATION**



**FRONT ELEVATION**



**ELEVATION AT HANDRAIL JOINT** ④

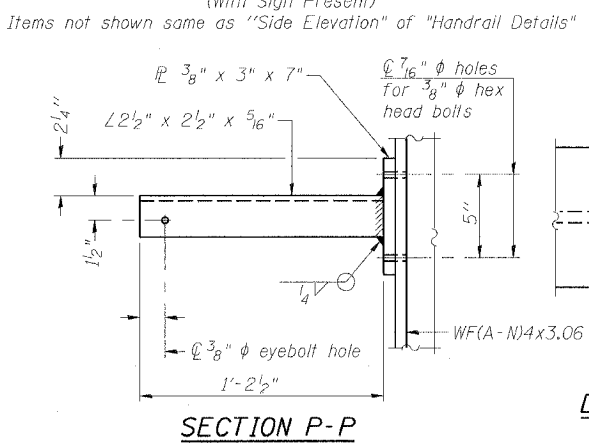


**SECTION F-F**

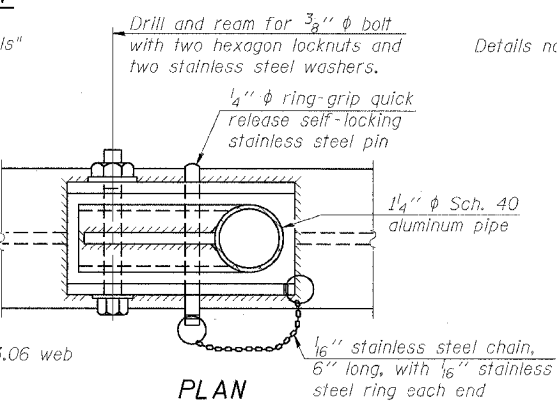
**SECTION G-G**

**LIGHTING FIXTURE MOUNTS (IF REQUIRED)**

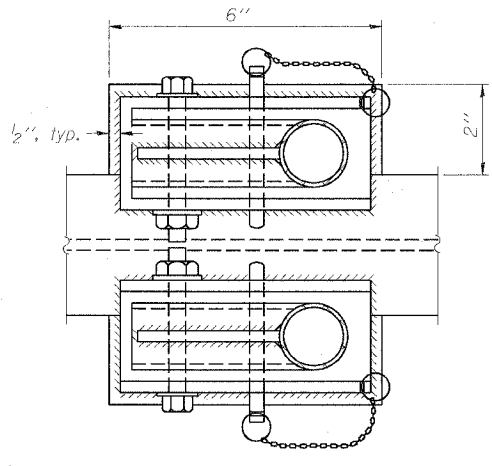
- ⑤ Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.



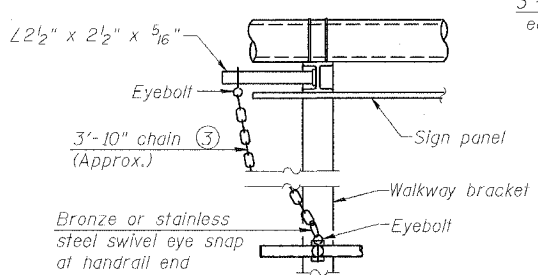
**SECTION P-P**



**PLAN**  
**DETAIL E HANDRAIL HINGE**

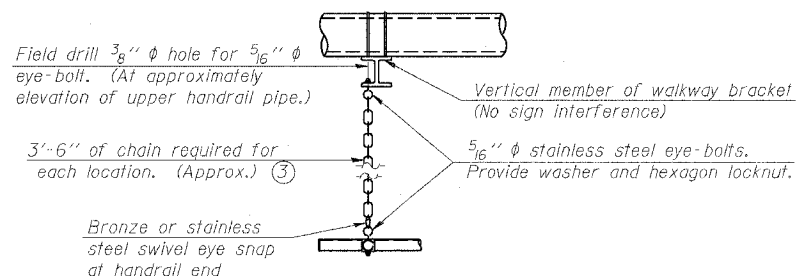


**PLAN AT HANDRAIL JOINT**  
Details not shown same as "PLAN"



**ALTERNATE SAFETY CHAIN ATTACHMENT**  
Details not shown similar to "Safety Chain" Details (Walkway omitted for clarity)

- ③ 3/16" galvanized steel chain, approximately 12 links per foot. Chain to be hot dip galvanized after manufacture and suitable for prolonged exterior exposure. Alternate materials may be substituted with the Engineer's approval.
- ④ Extrusions may be used in lieu of the details shown, with approval of the Engineer.



**SAFETY CHAIN**

One required for each end of each walkway.

DESIGNED - JSS	EXAMINED - 20
CHECKED - RDP	PASSED - ENGINEER OF STRUCTURAL SERVICES
DRAWN - JSS	PASSED - ENGINEER OF BRIDGES AND STRUCTURES
CHECKED - RDP	

OSC-A-8 1-7-05

NUMBER	REVISION	DATE

OSS-9

**CANTILEVER SIGN STRUCTURES  
HANDRAIL DETAILS  
ALUMINUM TRUSS & STEEL POST**

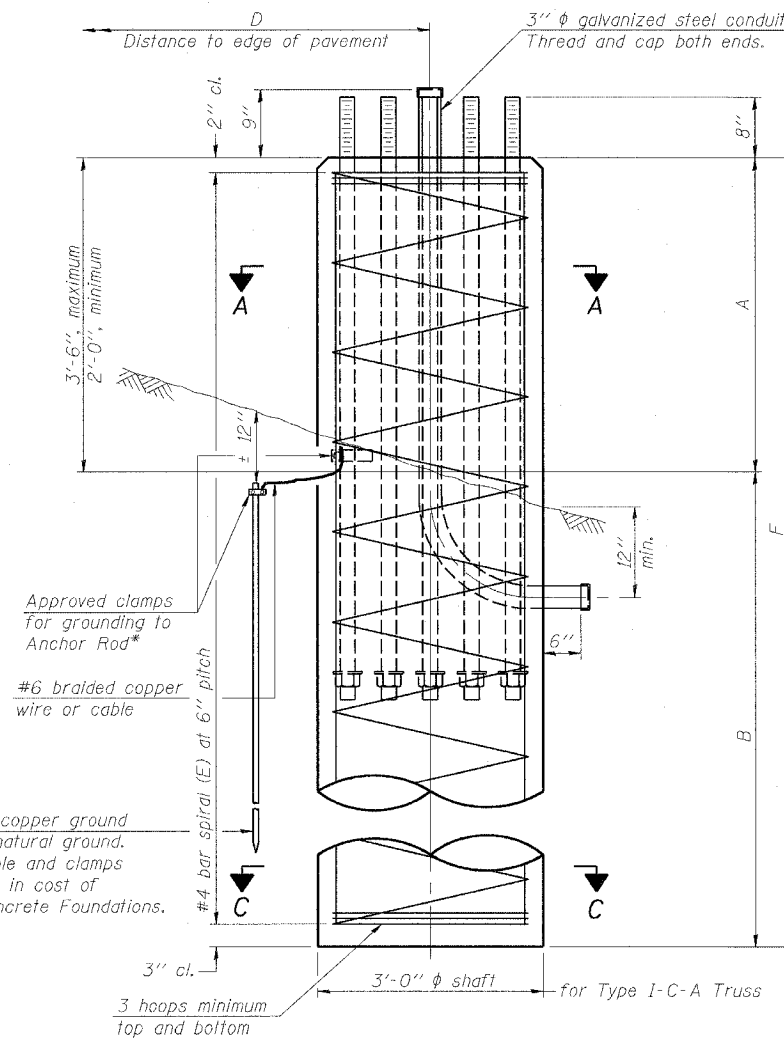
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

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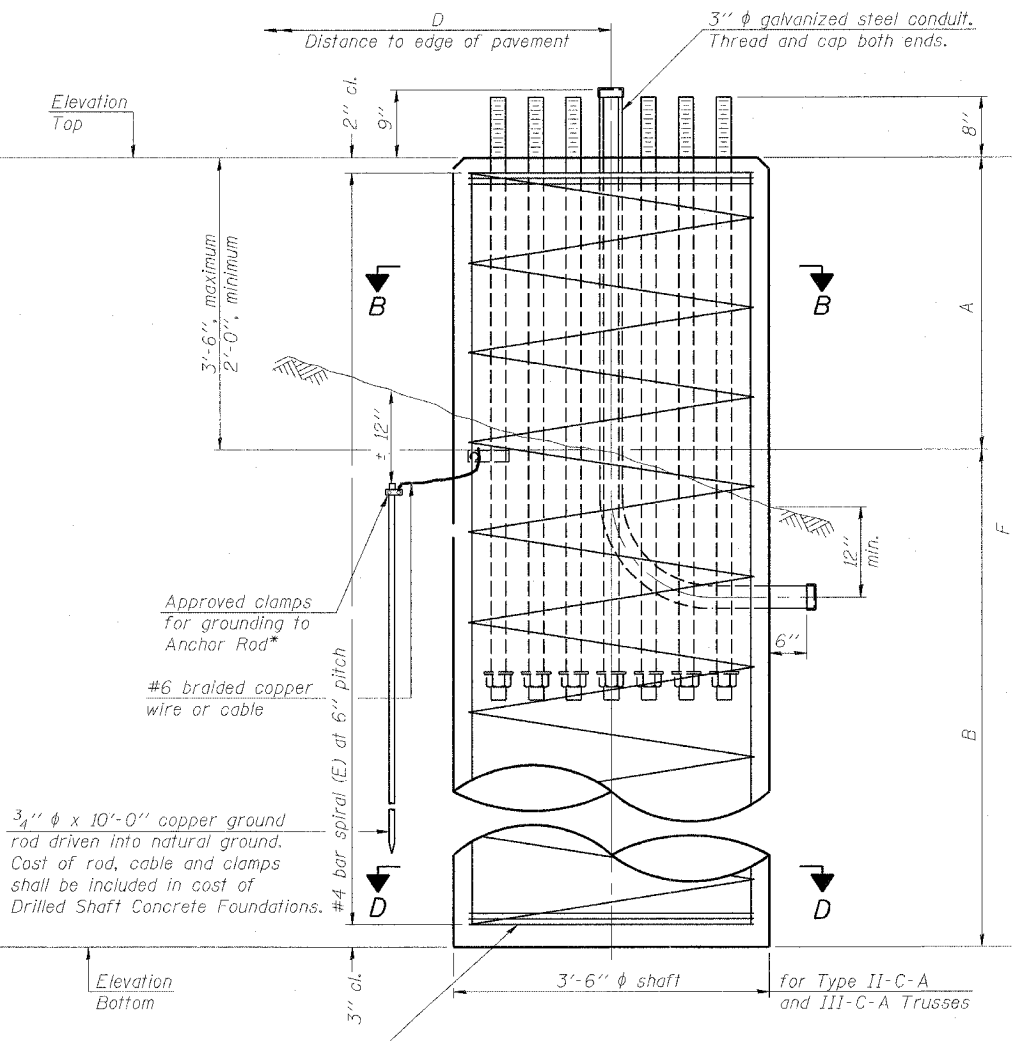
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SHEET NO.	SECTION	COUNTY	DISTRICT	SHEET NO.
F.A.I. R.T.E. 90/94		COOK	312	137
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
(1915,15 & 2021-922 PT.1) R-1				60A62

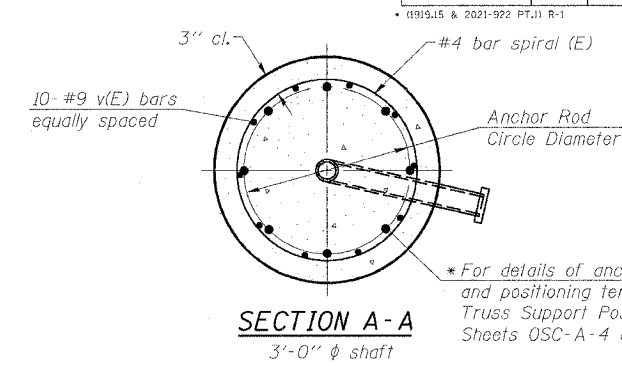
\* Grind anchor rod to bright finish at ground clamp location before installing clamp.



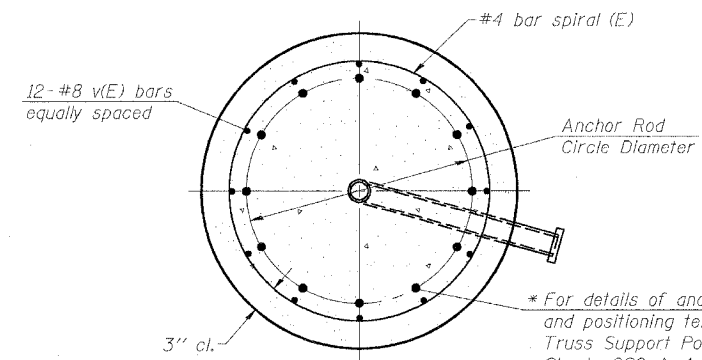
ELEVATION



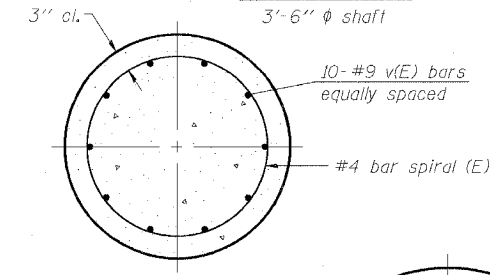
ELEVATION



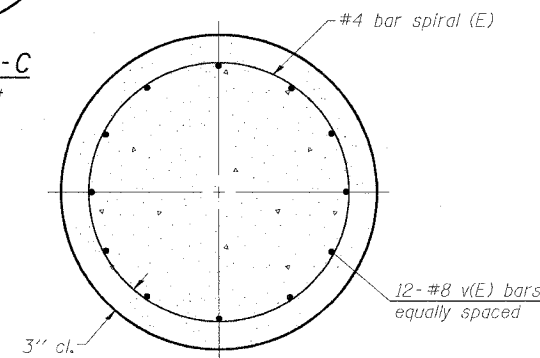
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

**NOTES:**  
The foundation dimensions shown in the Foundation Design Table are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength ( $Q_u$ ) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown in the Foundation Data Table will be the result of site specific designs.  
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.  
No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.  
Concrete shall be placed monolithically, without construction joints.  
Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.  
A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	$Q_u$	A	B	F	Class S1 Concrete Cubic Yards
1C0161094L059.2	4396+00.00	III-C-A	3.5'	4.00'	-17.0'	4.9 tsf	2.0'	19'	21.0'	7.5

Truss Type	Post Base Sheet	Maximum Cantilever Length (ft)	Maximum Total Sign Area (sq ft)	Shaft Diameter (in)	"B" Depth (ft)	Anchor Rods		Anchor Rod Circle Diameter (in)
						No.	Diameter (in)	
I-C-A	OSC-A-4	25	170	3.0	16.0	8	2	22
II-C-A	OSC-A-5	30	170	3.5	17.0	12	2	30
II-C-A	OSC-A-5	30	340	3.5	21.5	12	2	30
III-C-A	OSC-A-5	35	170	3.5	19.0	12	2	30
III-C-A	OSC-A-5	35	250	3.5	22.5	12	2	30
III-C-A	OSC-A-5	35	400	3.5	26.5	12	2	30
III-C-A	OSC-A-5	40	400	3.5	32.0	12	2	30

DESIGNED	JSS
CHECKED	RDP
DRAWN	JSS
CHECKED	RDP

EXAMINED	20
PASSED	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

OSC-A-9 1-7-05

**CANTILEVER SIGN STRUCTURES  
DRILLED SHAFT  
ALUMINUM TRUSS & STEEL POST**

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

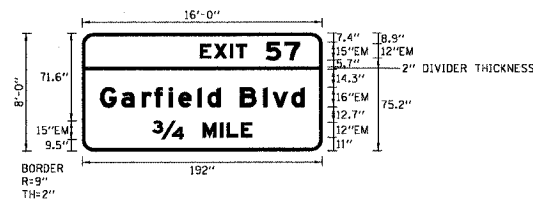
OSS-10

6/27/2006 11:56:24 AM



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	138
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
60A62		(1919.15, 2021-922 PT1 & PT2) R-1		

SIGN DETAIL



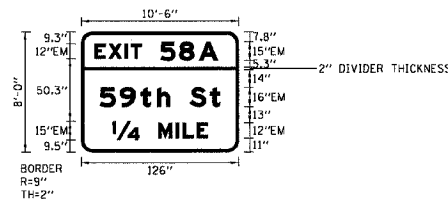
SIGN NUMBER	ISO161094L058.8 LT
WIDTH x HEIGHT	16'-0" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	OVERHEAD
BACKGROUND	TYPE: REFLECTIVE
LEGEND/BORDER	TYPE: REFLECTIVE
	COLOR: GREEN
	COLOR: WHITE

SYMBOL	X	Y	WID	HT

DIMENSIONS ARE IN INCHES.TENTHS LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

LETTER POSITIONS (X)											LENGTH SERIES, SIZE			
E	X	I	T	S	7						79.8	EM12,EM15		
94.2	105.5	118.3	123.1	146.9	162									
G	a	r	f	i	e	l	d	B	l	v	d	163.4	EM16/12	
14.3	31.3	47.6	57.7	69	77.1	92.3	100.2	110.4	126.4	144.9	152.4	167.5		
3/4	M	I	L	E									79.6	EM15,EM12
56.2	96.2	110.3	115.7	127										

SIGN DETAIL

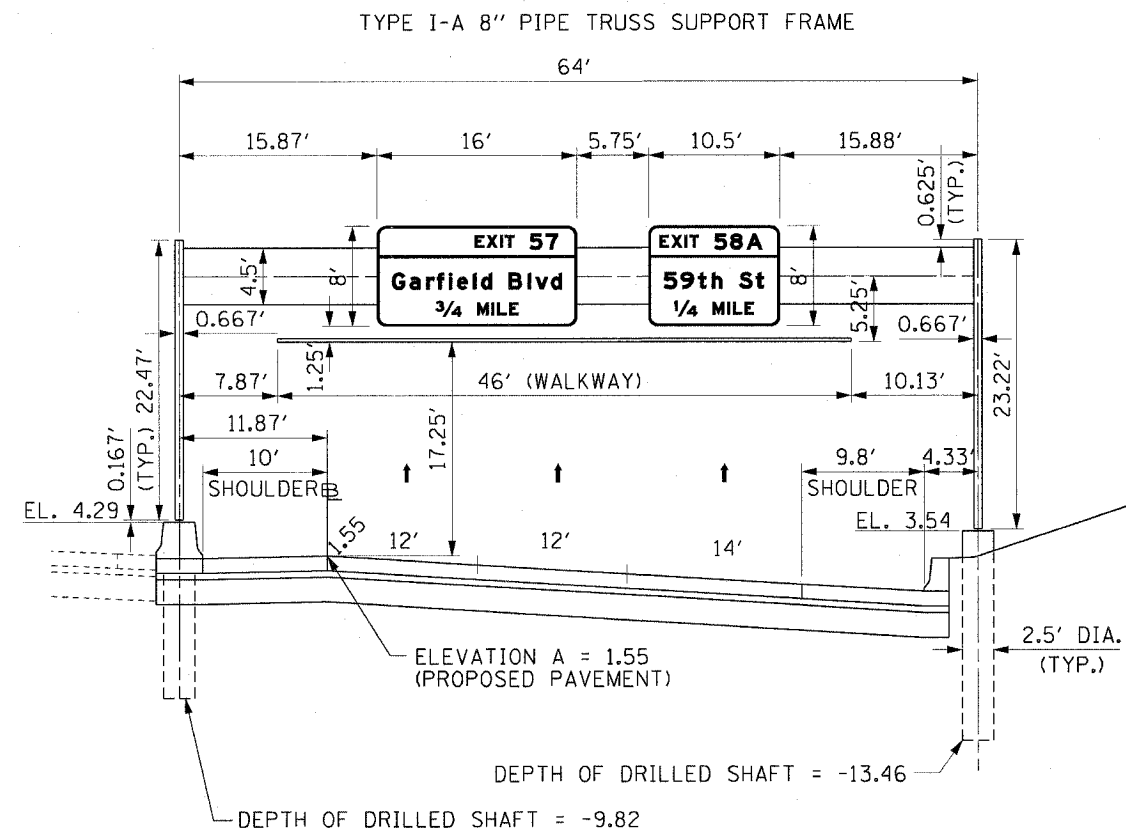


SIGN NUMBER	ISO161094L058.8 RT
WIDTH x HEIGHT	10'-6" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	OVERHEAD
BACKGROUND	TYPE: REFLECTIVE
LEGEND/BORDER	TYPE: REFLECTIVE
	COLOR: GREEN
	COLOR: WHITE

SYMBOL	X	Y	WID	HT

DIMENSIONS ARE IN INCHES.TENTHS LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

LETTER POSITIONS (X)											LENGTH SERIES, SIZE	
E	X	I	T	S	8	A					98.7	EM12,EM15
10.7	21.9	34.8	39.6	63.4	78.5	94.4						
5	9	t	h	S	t						96.5	EM16/12
14.7	30.8	47.7	60.8	71	87	103.2						
1/4	M	I	L	E							76.6	EM15,EM12
24.7	61.7	75.8	81.2	92.5								



ISO161094L058.8  
MOUNTING DETAIL  
PROPOSED OVERHEAD SIGN STRUCTURE  
STA 4421+30.00 N.B. LOCAL I-90/94  
LOOKING NORTH

NOTES:

1. PROPOSED PAVEMENT FOR LOCAL LANES IS SHOWN FOR INFORMATION ONLY.
2. REFER TO ELECTRICAL INFRASTRUCTURE PLANS FOR ORIENTATION AND LOCATION OF THE CONDUIT EMBEDDED IN THE OVERHEAD SIGN FOUNDATIONS.

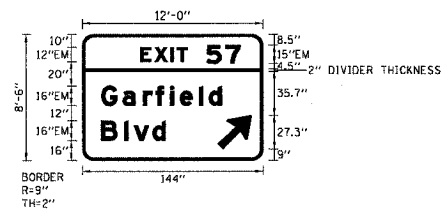


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PERMANENT SIGN PANEL MOUNTING DETAILS  
PROPOSED OVERHEAD SIGN STRUCTURE  
STA. 4421+30.00  
SCALE: NONE DRAWN BY: JSS  
DATE: June 9, 2006 CHECKED BY: RDP

OSS-11  
1/10/06 AM  
6/2/2006

SIGN DETAIL



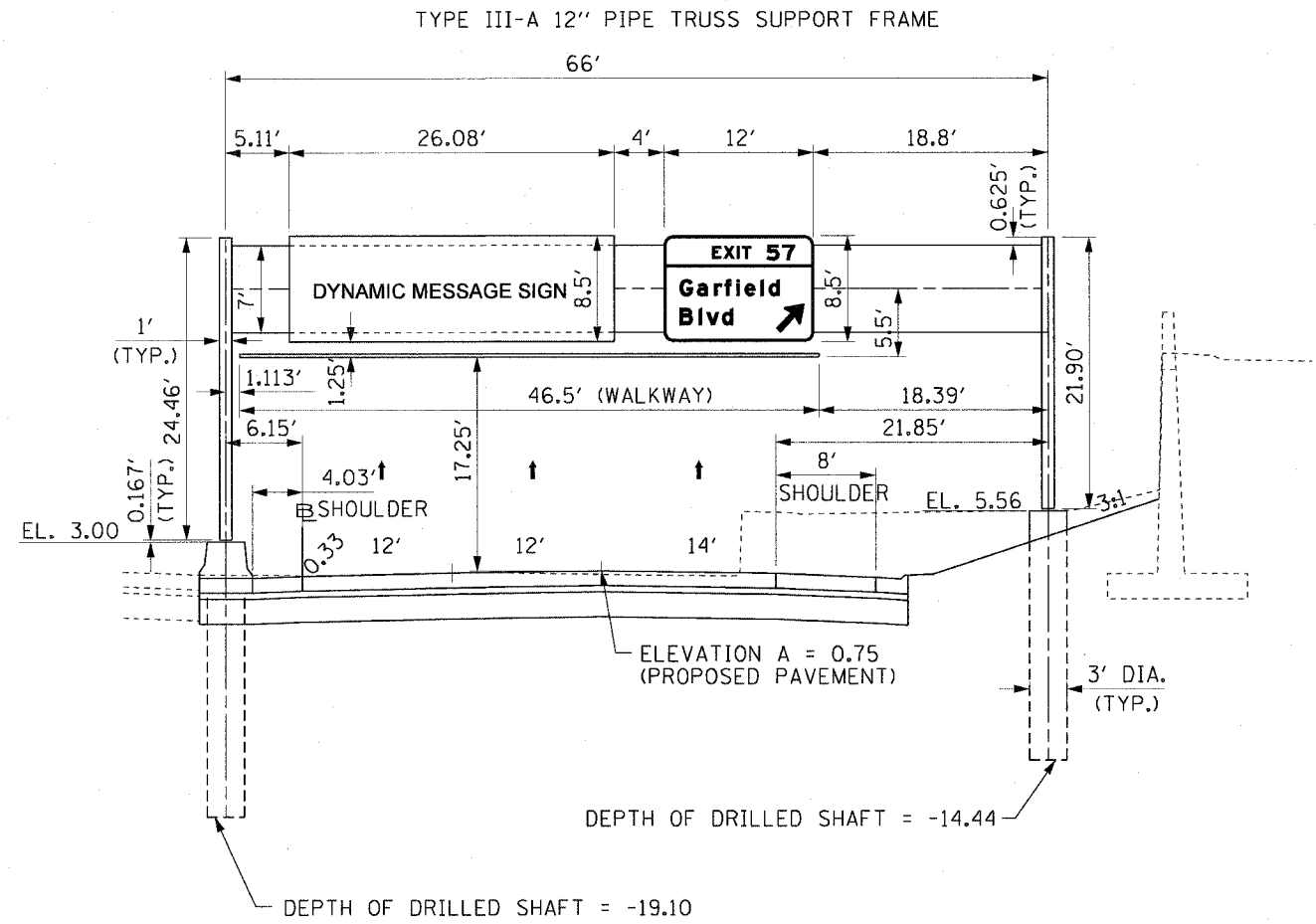
SIGN NUMBER	1S0161094L058.1 RT
WIDTH X HEIGHT	12'-0" x 8'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	OVERHEAD
BACKGROUND	TYPE: REFLECTIVE
LEGEND/BORDER	COLOR: GREEN
	TYPE: REFLECTIVE
	COLOR: WHITE

SYMBOL	X	Y	WID	HT
ARMED	107.7	9	22.3	35.1

DIMENSIONS ARE IN INCHES.TENTHS LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

LETTER POSITIONS (X)										LENGTH SERIES, SIZE	
E	X	I	T	S	7					79.8	EM12,EM15
46.2	57.5	70.3	75.2	99	114						
C	a	r	f	i	e	l	d			96.1	EM16/12
14.9	32	48.3	58.3	69.7	77.7	92.9	100.9				
B	l	v	d							51.3	EM16/12
14.9	33.4	40.9	56								

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	139
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
60A62	• (1919.15, 2021-922 PT1 & PT2) R-1			



1S0161094L058.1  
MOUNTING DETAIL  
PROPOSED OVERHEAD SIGN STRUCTURE  
STA 4455+50.00 N.B. LOCAL I-90/94  
LOOKING NORTH

NOTES:

1. PROPOSED PAVEMENT FOR LOCAL LANES IS SHOWN FOR INFORMATION ONLY.
2. REFER TO ELECTRICAL INFRASTRUCTURE PLANS FOR ORIENTATION AND LOCATION OF THE CONDUIT EMBEDDED IN THE OVERHEAD SIGN FOUNDATIONS.
3. THE DYNAMIC MESSAGE SIGN SHALL BE FASTENED TO THE SIGN TRUSS BY THE CONTRACT 62303 CONTRACTOR. THE CONTRACTOR SHALL COORDINATE THE ERECTION OF THE SIGN TRUSS WITH CONTRACT 62583.
4. THE FABRICATOR SHALL COORDINATE WITH THE MANUFACTURER OF THE DYNAMIC MESSAGE SIGN (DMS) TO DETERMINE THE ACTUAL SIZE, WEIGHT AND MOUNTING DETAILS OF THE DMS BEFORE ORDERING OR FABRICATING ANY MATERIALS FOR THE TRUSS OR WALKWAY/SIGN SUPPORTS.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)
NAME	DATE	
		PERMANENT SIGN PANEL MOUNTING DETAILS PROPOSED OVERHEAD SIGN STRUCTURE STA. 4455+50.00 SCALE: NONE DRAWN BY: JSS DATE: June 9, 2006 CHECKED BY: RDP

OSS-12

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
F.A.I. RTEL 90/94	*	COOK	312	140
FED. AID DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
* (1919,15 & 2021-922 PT.1) R-1				

GENERAL NOTES

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

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

LOADING: 90 M.P.H. WIND VELOCITY

WIND LOADING: 30 p.s.f. normal to Sign Panel Area and truss elements not behind sign Loading Diagram.

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

DESIGN STRESSES:  
Field Units  
f<sub>c</sub> = 3,500 p.s.i.  
f<sub>y</sub> = 60,000 p.s.i. (reinforcement)

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

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W\*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

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

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

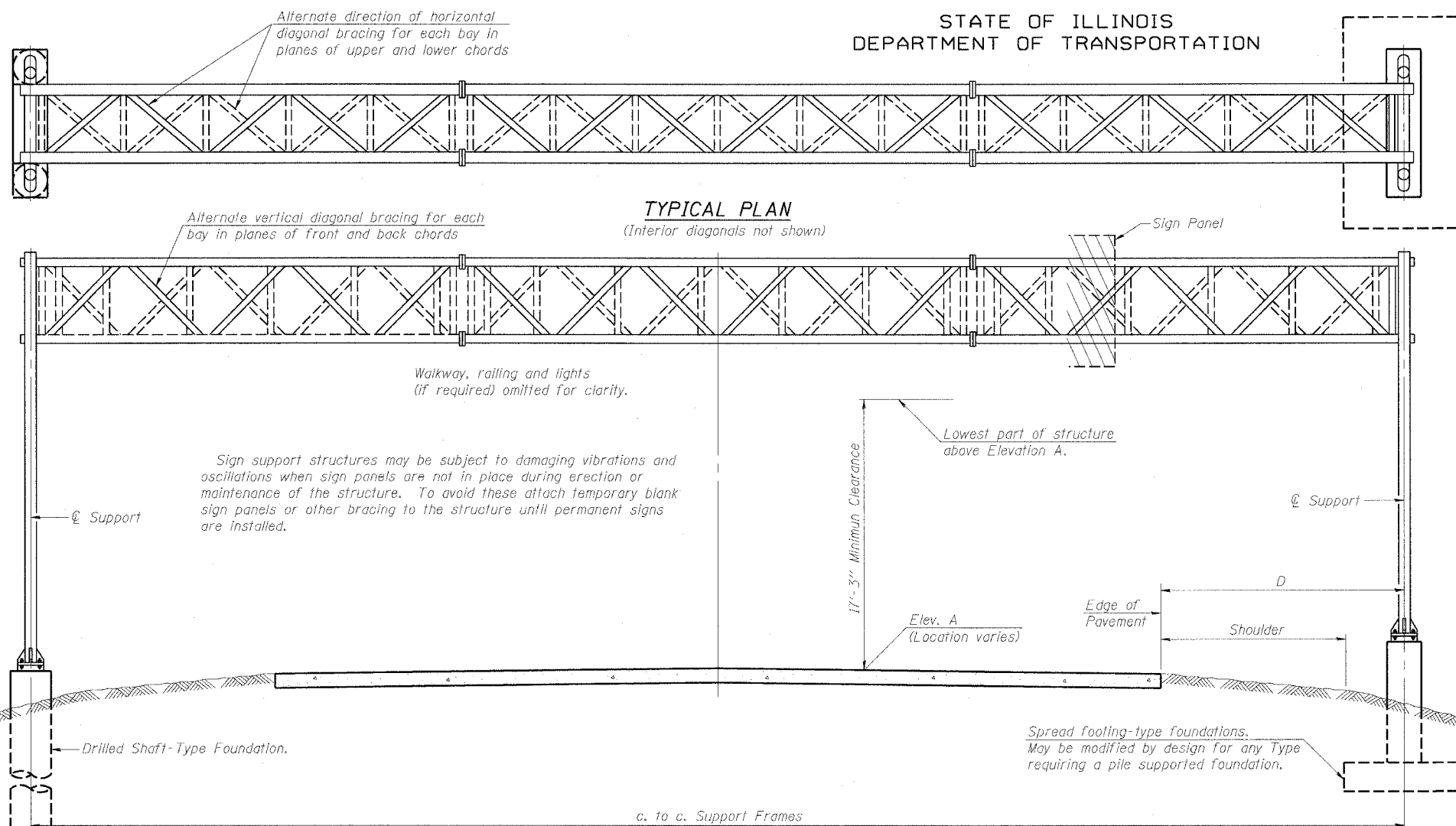
ANCHOR RODS: Shall conform to AASHTO M314 Gr. 36 or 55 with a minimum Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

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

\* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

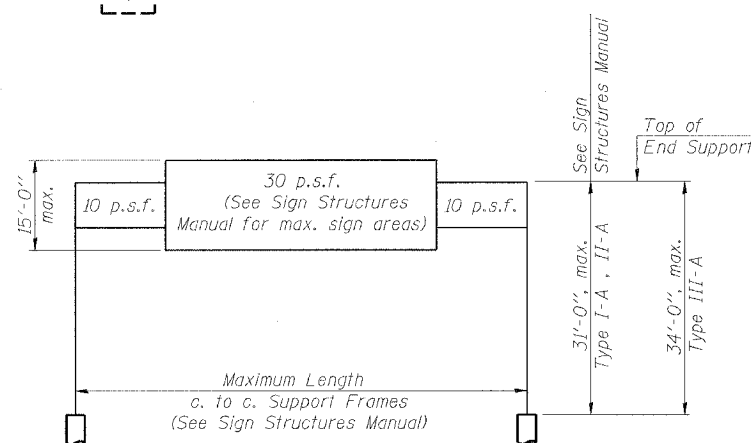
OSS-13



TYPICAL ELEVATION  
(Looking at Face of Signs)\*\*

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
ISO161094L058.8	4421+30.00	I-A	64'	1.55'	11.87' L 14.13' R	8.0'	212.0 SF
ISO161094L058.1	4455+50.00	III-A	66'	0.75'	6.15' L 21.85' R	8.5'	324.0 SF

\*\*Looking upstation for structures with signs both sides.



DESIGN WIND LOADING DIAGRAM

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

DESIGNED - JSS	20
CHECKED - RDP	EXAMINED
DRAWN - JSS	PASSED
CHECKED - RDP	ENGINEER OF BRIDGES AND STRUCTURES

OS-A-1 1-7-05

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE TYPE I-A (4'-0" x 4'-6")	Foot	64
OVERHEAD SIGN STRUCTURE TYPE II-A (4'-6" x 5'-3")	Foot	0
OVERHEAD SIGN STRUCTURE TYPE III-A (5'-0" x 7'-0")	Foot	66
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	92.5
CONCRETE FOUNDATIONS	Cu. Yds.	0
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	41.4

NUMBER	REVISION	DATE

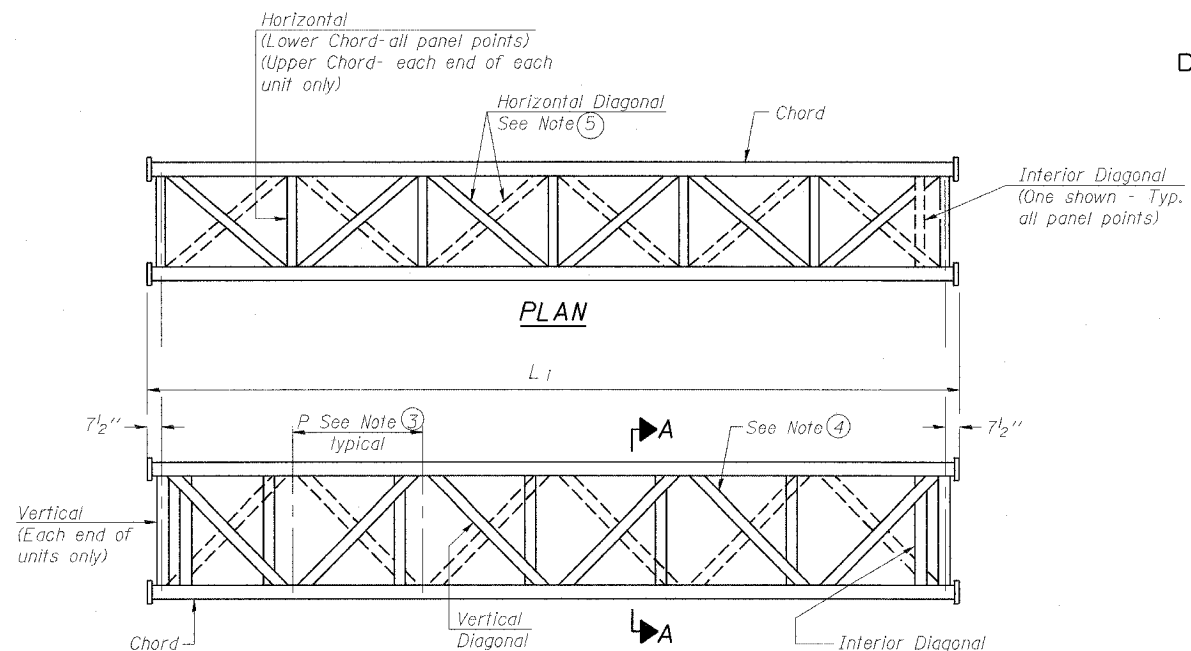
OVERHEAD SIGN STRUCTURES  
GENERAL PLAN & ELEVATION  
ALUMINUM TRUSS & STEEL SUPPORTS

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

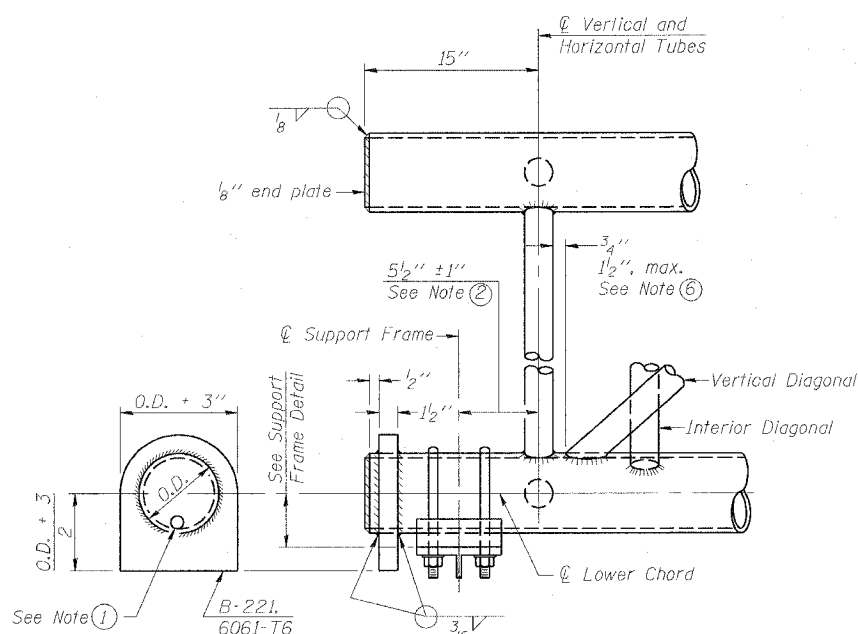
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

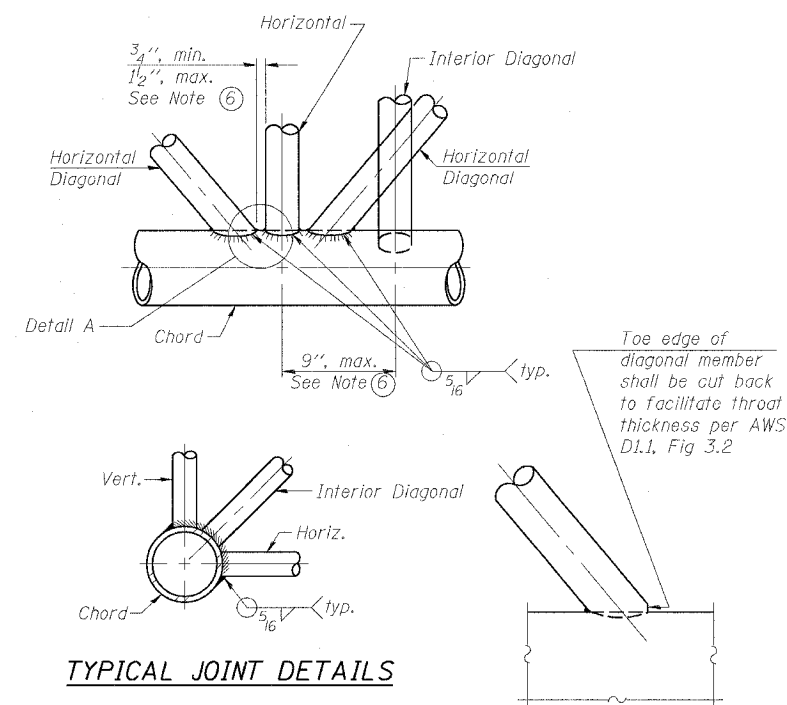
ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.I. RTE. 90/94		COOK	312	141
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
* (1919,15 & 2021-922 PT.1) R-1				



**ELEVATION**  
**TYPICAL INTERIOR UNIT**  
Even number of panels/interior unit required.



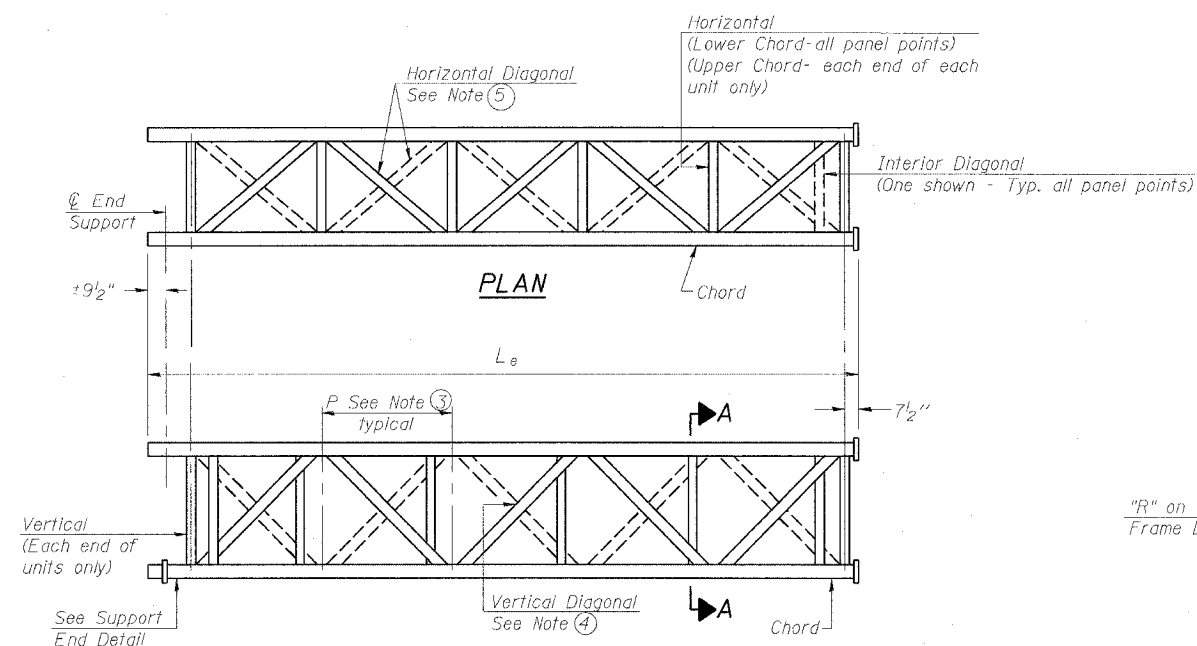
**SUPPORT END DETAIL FOR EXTERIOR UNIT**



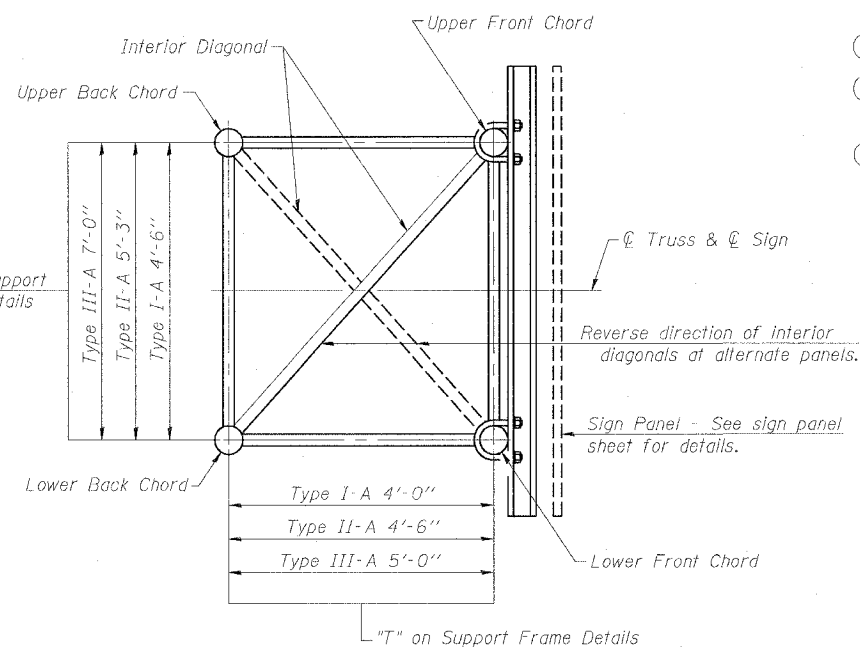
**TYPICAL JOINT DETAILS**

**NOTES**

- Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2" Ø drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- 5 1/2" end dimension may vary by ±1" to provide uniform panel spacing (P).
- Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
- Vertical Diagonals in front and back face shall alternate.
- Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
- All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a 3/4" minimum to 1 1/2" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.



**ELEVATION**  
**TYPICAL EXTERIOR UNIT**  
Even or odd number of panels/exterior units allowed.



**SECTION A-A**

DESIGNED - JSS	20
CHECKED - RDP	EXAMINED
DRAWN - JSS	PASSED
CHECKED - RDP	ENGINEER OF BRIDGES AND STRUCTURES

20
EXAMINED
PASSED
ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

OS-A-2

1-7-05

OVERHEAD SIGN STRUCTURES  
ALUMINUM TRUSS DETAILS  
FOR TRUSS TYPES I-A, II-A and III-A

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

OSS-14

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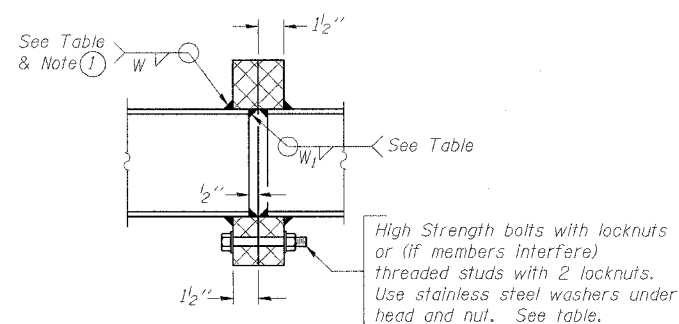
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 90/94		COOK	312	142
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

(1919.15 & 2021-922 PT.1) R-1 60A62

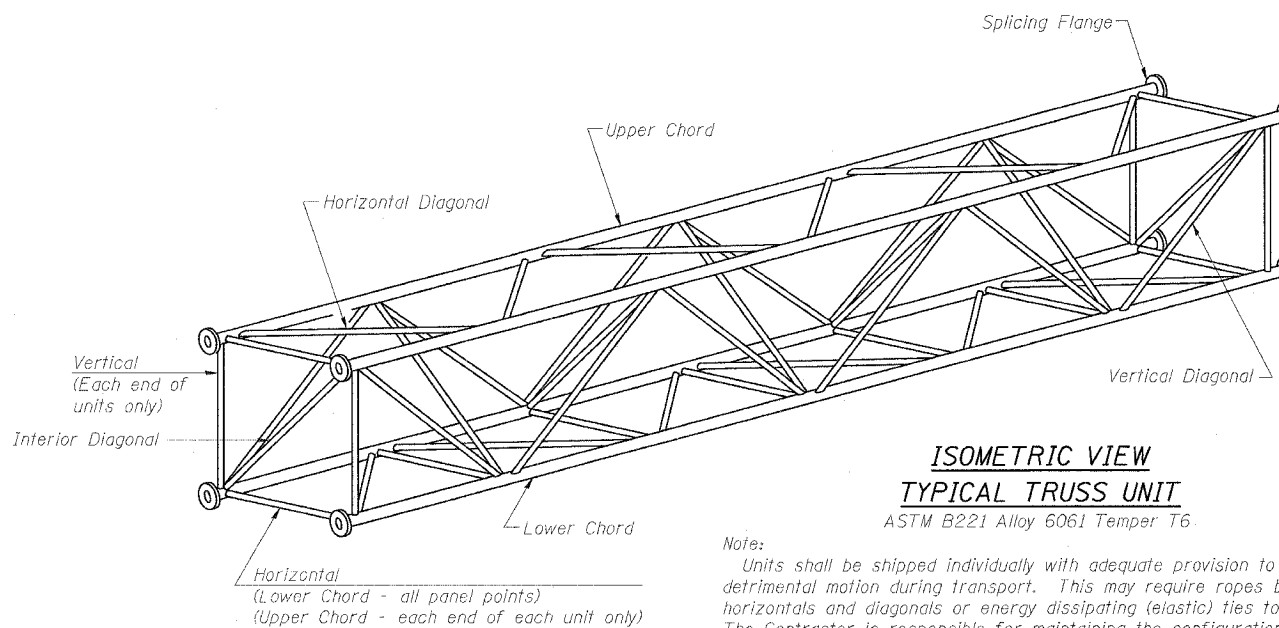
TRUSS UNIT TABLE

Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(L <sub>e</sub> )	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L <sub>i</sub> )	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes			
															No./Splice	Dia.	W	W <sub>i</sub>	A	B
ISO161094L058.8	4421+30.00	I - A	7	32'-9 1/2"	4'-5"	0	--	--	--	4 1/2"	1/4"	2 1/4"	1/4"	1.4"	6	3/4"	1/4"	3/16"	8 1/4"	11 1/4"
ISO161094L058.1	4455+50.00	III - A	7	33'-9 3/4"	4'-6 3/4"	0	--	--	--	7"	5/16"	3 1/4"	5/16"	1.8"	6	1"	1/16"	5/16"	11 1/2"	15"

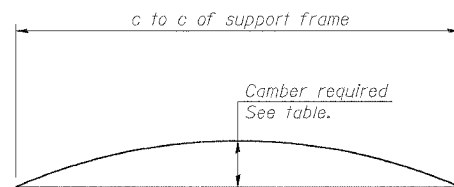


SECTION B-B

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



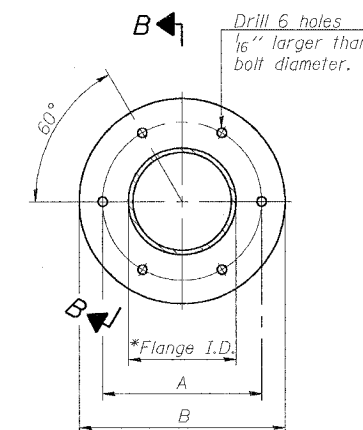
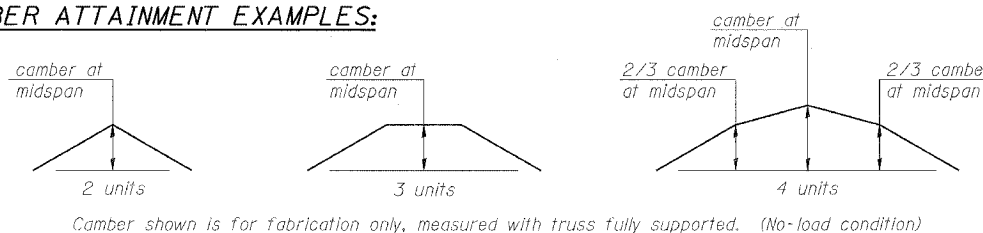
Note: Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.



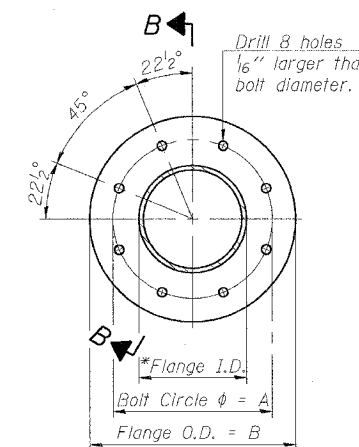
CAMBER DIAGRAM

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

CAMBER ATTAINMENT EXAMPLES:



TRUSS TYPES I-A, II-A, & III-A



TRUSS TYPES II-A & III-A  
SPLICING FLANGES

ASTM B221, Alloy 6061-T6  
or ASTM B209, Alloy 6061-T651

\*To fit O.D. of Chord with maximum gap of 1/16".

NUMBER	REVISION	DATE

DESIGNED	JSS
CHECKED	RDP
DRAWN	JSS
CHECKED	RDP

EXAMINED	20
PASSED	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

OS4-A-2

1-7-05

OVERHEAD SIGN STRUCTURES  
ALUMINUM TRUSS DETAILS  
FOR TRUSS TYPES I-A, II-A and III-A

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

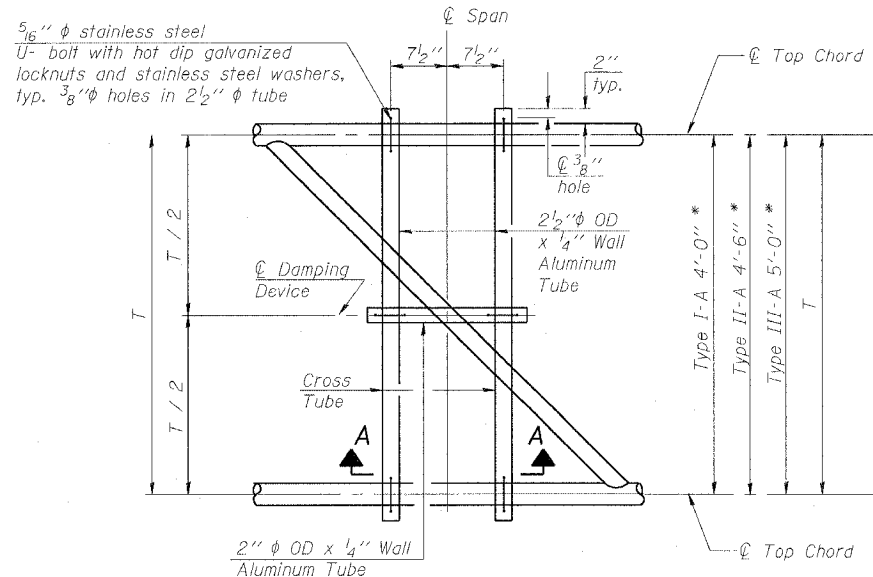
OSS-15

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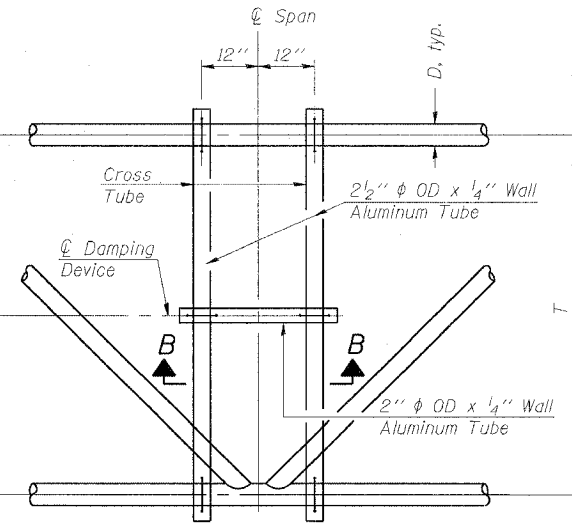
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

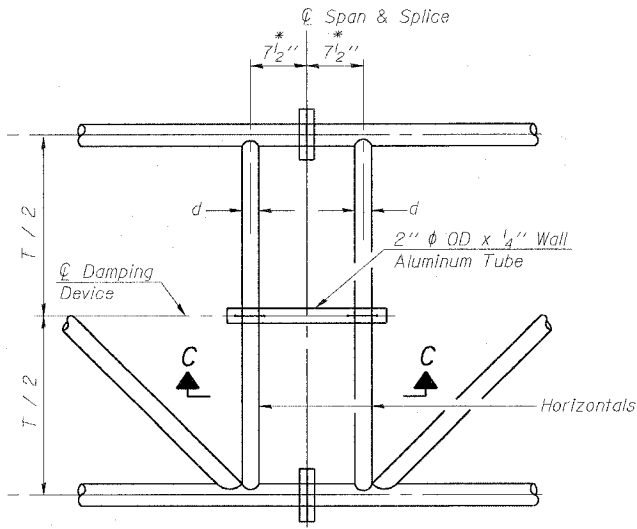
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET
F.A.I. RTE. 90/94		COOK	312	143
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		
* (1919.15 & 2021-922 PT.1) R-1				



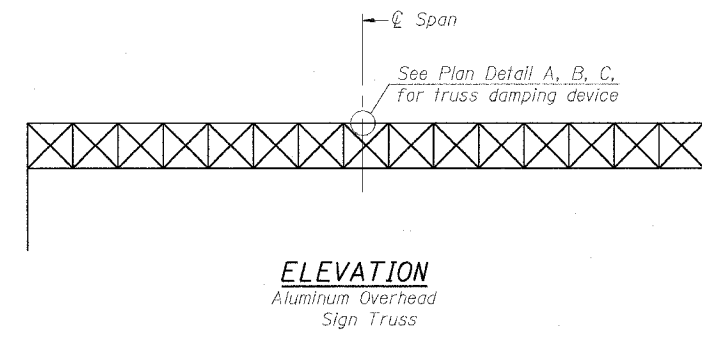
**PLAN DETAIL "A"**  
Span between Panel Points



**PLAN DETAIL "B"**  
Span at Panel Point

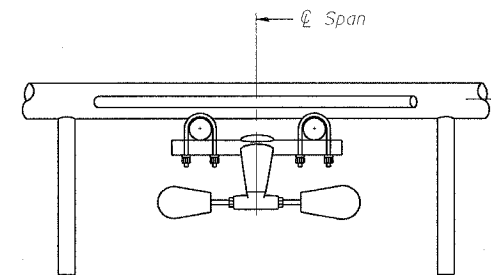


**PLAN DETAIL "C"**  
Span at Chord Splice

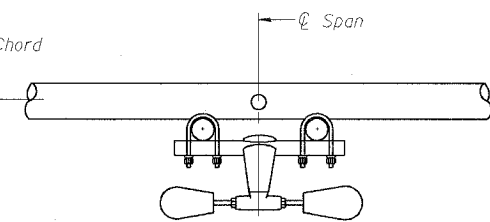


**ELEVATION**  
Aluminum Overhead Sign Truss

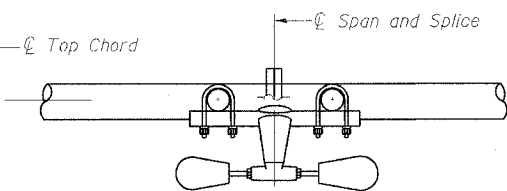
**NOTES**  
Damper: One damper per truss. (31 lbs. Stockbridge-Type Aluminum)  
Cost included in Overhead Sign Structure...  
Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



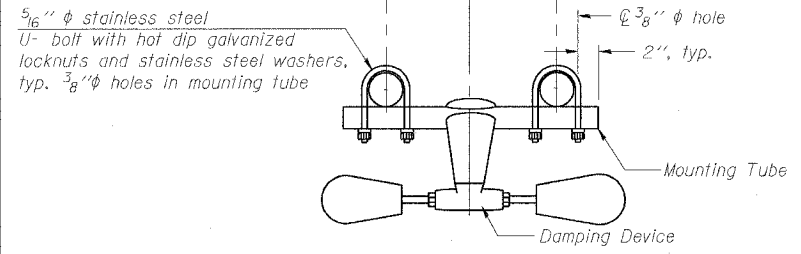
**SECTION A-A**



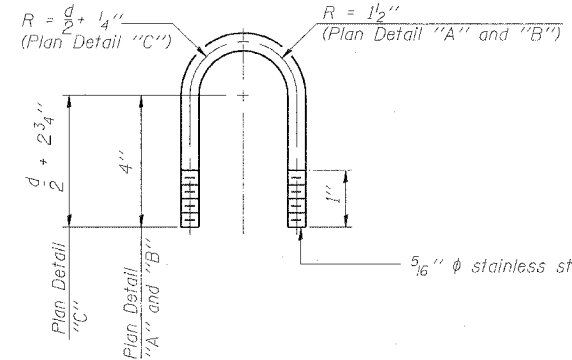
**SECTION B-B**



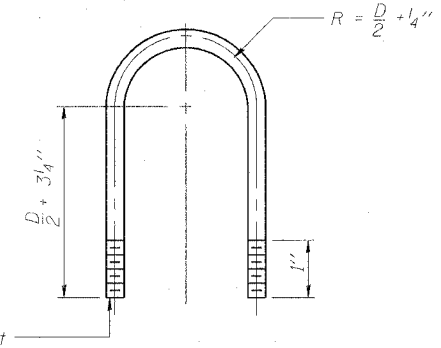
**SECTION C-C**



**TRUSS DAMPING DEVICE CONNECTION DETAIL**  
(Typical)



**DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL**  
(Typical)



**TOP CHORD TO CROSS TUBE U-BOLT DETAIL**  
(Typical - Detail "A" and "B")

DESIGNED - JSS	EXAMINED
CHECKED - RDP	PASSED
DRAWN - JSS	
CHECKED - RDP	

20  
ENGINEER OF STRUCTURAL SERVICES  
ENGINEER OF BRIDGES AND STRUCTURES

OS-A-D 1-7-05

OSS-16

**OVERHEAD SIGN STRUCTURE DAMPING DEVICE**

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

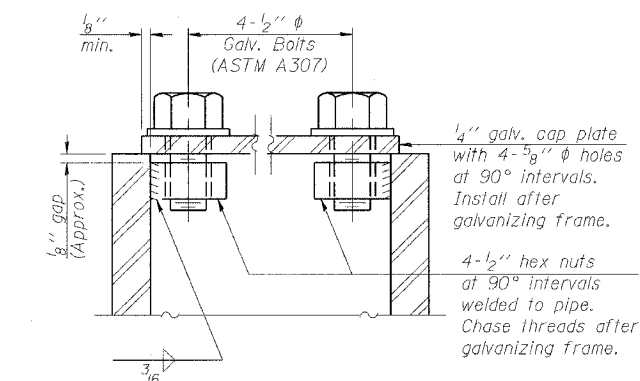
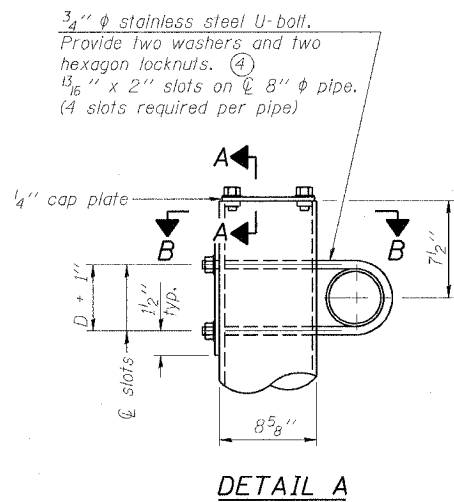
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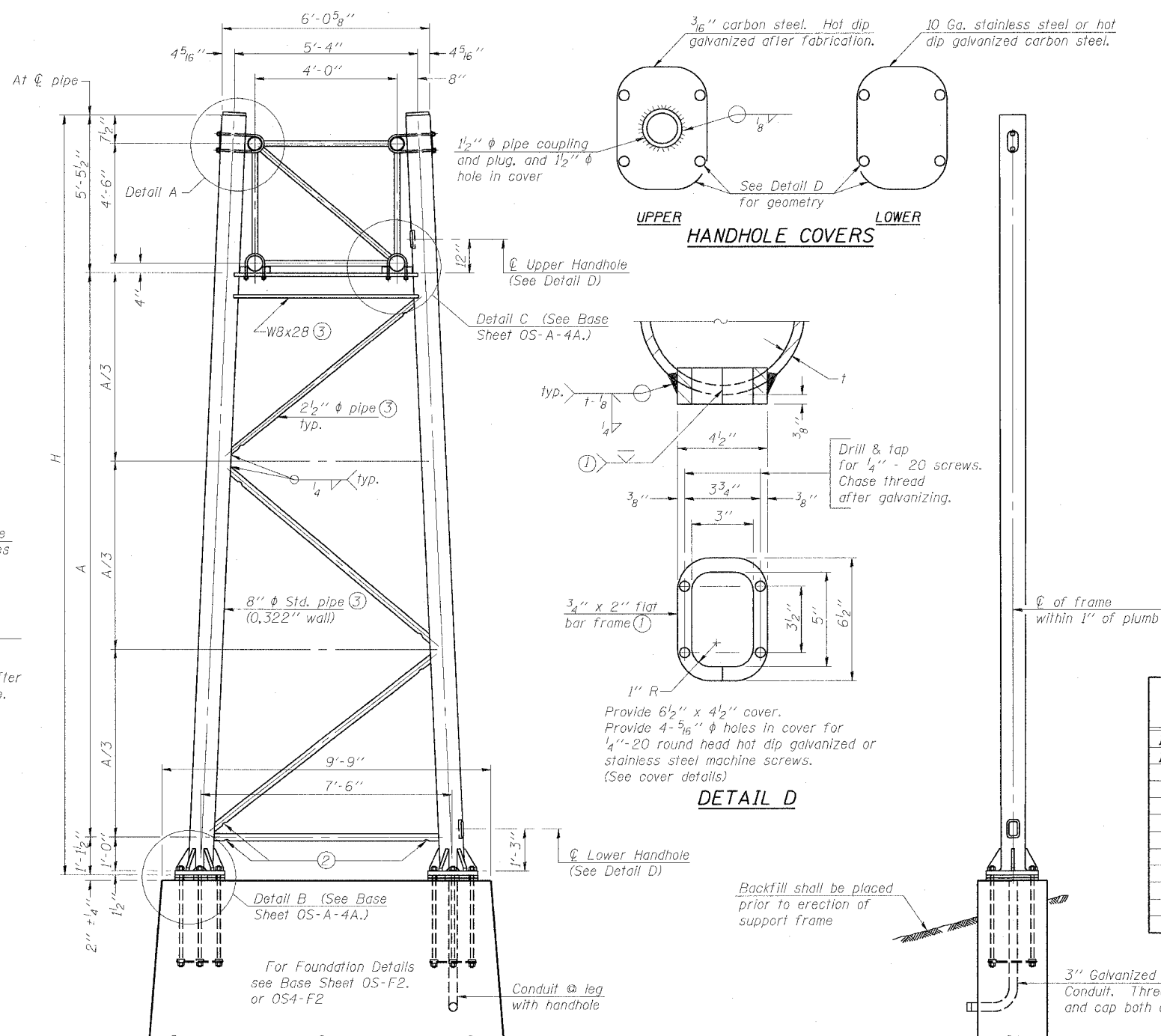
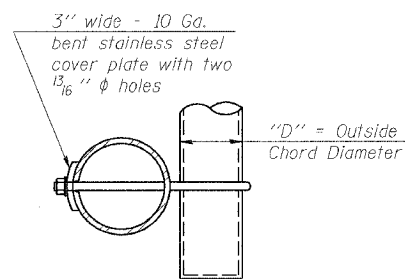
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 90/94		COOK	312	144
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		

• (1919,15 & 2021-922 PT.1) R-1 60462



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



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

- ① In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500  $\mu$ m or less.
- ② Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- ③ Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.

Structure Number	Station	Support		H	A
		Left	Right		
ISO161094L058.8	4421+30.00	X		22.47'	15.89'
ISO161094L058.8	4421+30.00		X	23.22'	16.64'

DESIGNED - JSS	20
CHECKED - RDP	EXAMINED
DRAWN - JSS	PASSED
CHECKED - RDP	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

OS-A-4 1-7-05

NUMBER	REVISION	DATE

8"  $\phi$  PIPE TRUSS SUPPORT FRAME

END ELEVATION

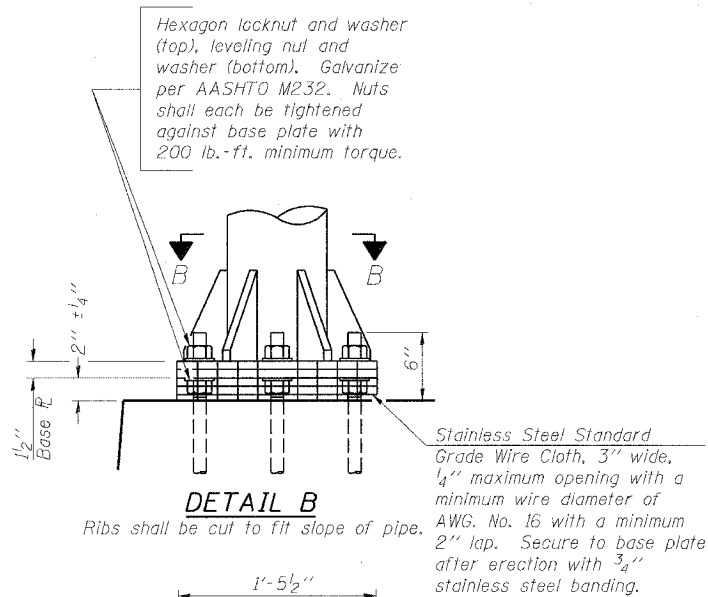
OVERHEAD SIGN STRUCTURES  
SUPPORT FRAME for TYPE I-A ALUMINUM TRUSS

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

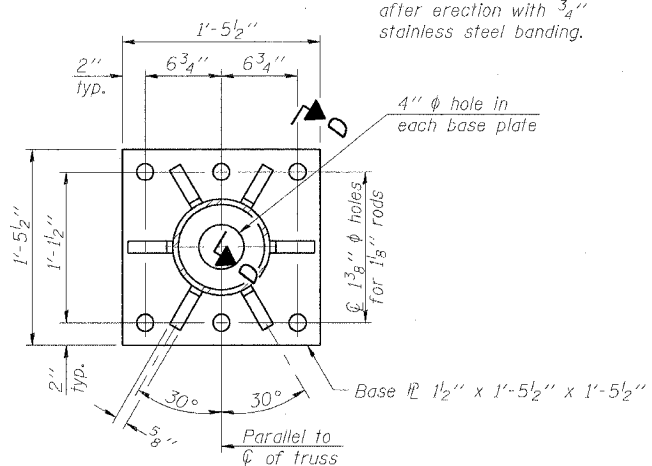
OSS-17

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

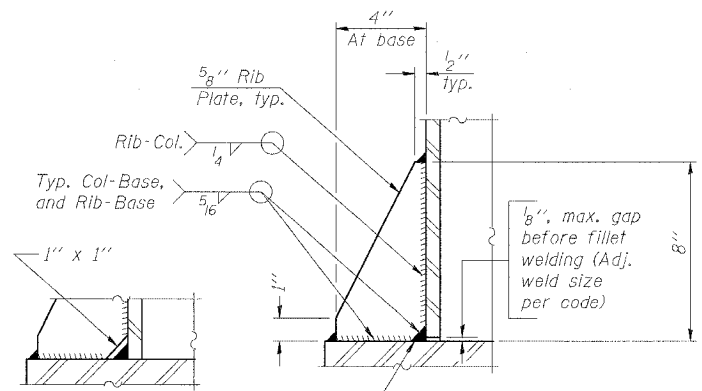
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL
F.A.I. RTE. 90/94		COOK	312	145
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		
* (S1919.15 & 2021-922 PT.1) R-1				



DETAIL B

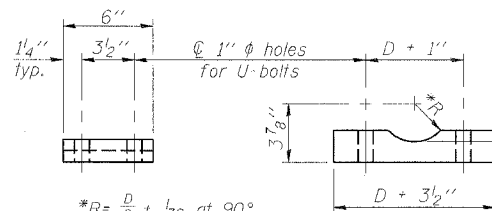


SECTION B-B



SECTION D-D

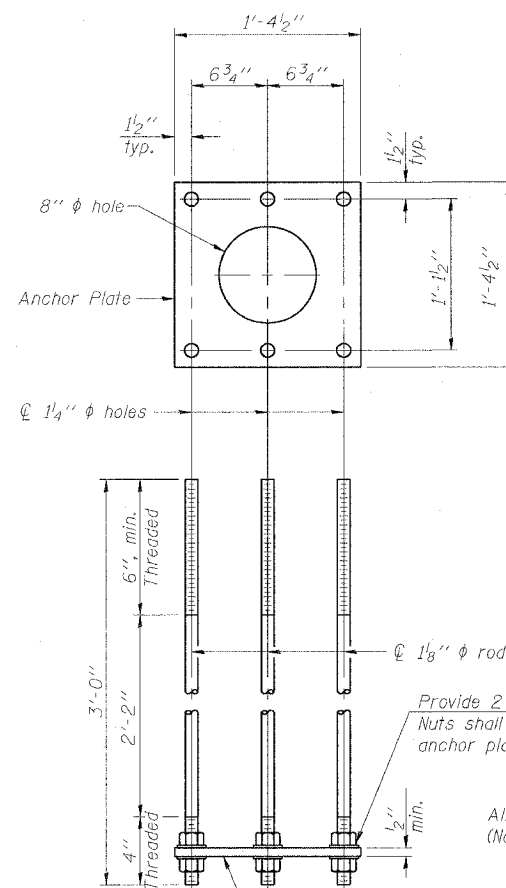
\*\* Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.



SADDLE SHIM DETAIL

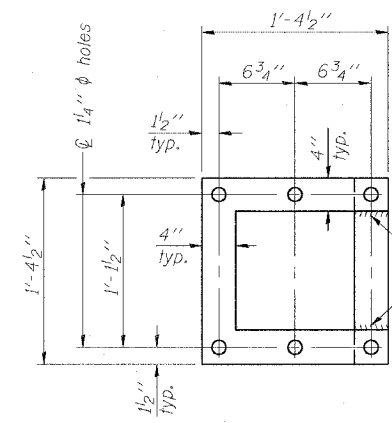
ASTM B26 Alloy 356-F  
or  
ASTM B209 Alloy 6061-T651  
(4 required per sign truss)

Truss Chord Nominal Dia.	a
5"	3/4"
5 1/2"	13/16"
6"	7/8"
6 1/2"	15/16"



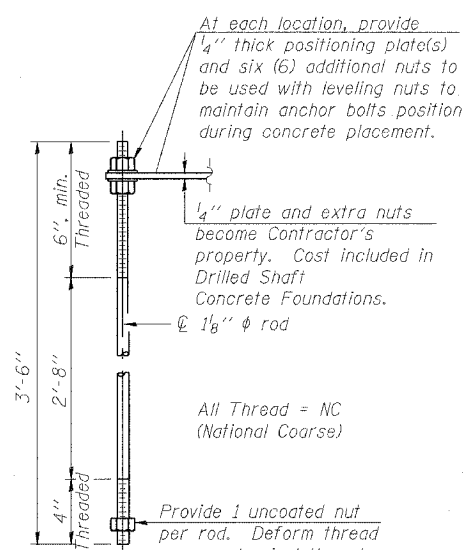
ANCHOR ROD DETAIL  
Spread Footing Foundation

Anchor rods shall conform to AASHTO M314 Grade 36 or 55 and meet Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. Galvanize upper 12" per AASHTO M232. No welding shall be permitted on rods.

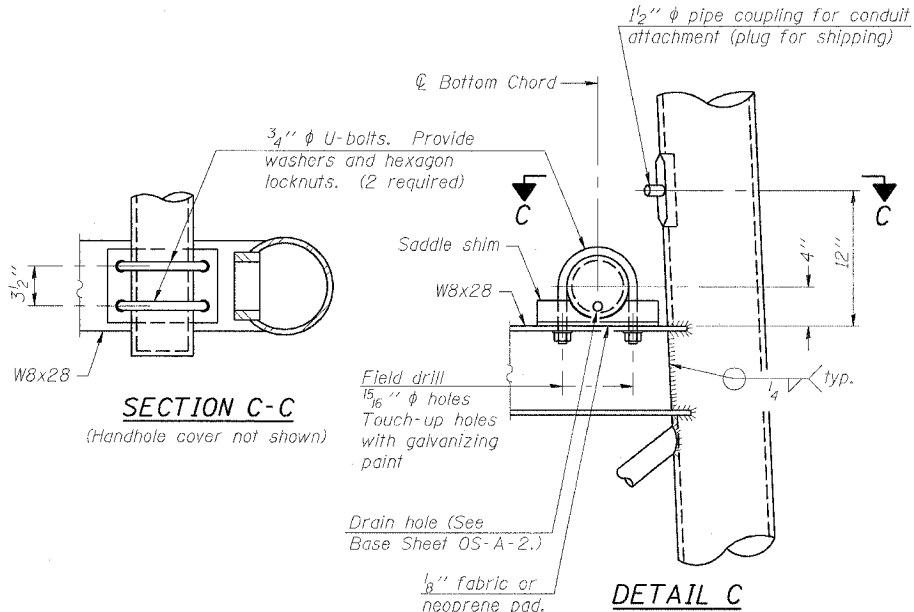


POSITIONING PLATE(S)

Optionally may use four (4) separate bars. Weld to maintain perpendicularity.



ANCHOR ROD DETAIL  
Drilled Shaft Foundation



SECTION C-C

(Handhole cover not shown)

TYPE I-A TRUSS  
8"  $\phi$  PIPE SUPPORT FRAME DETAILS

NUMBER	REVISION	DATE

DESIGNED - JSS	20
CHECKED - RDP	EXAMINED
DRAWN - JSS	PASSED
CHECKED - RDP	ENGINEER OF BRIDGES AND STRUCTURES

OS-A-4A

1-7-05

OVERHEAD SIGN STRUCTURES  
SUPPORT FRAME DETAILS ALUMINUM TRUSS

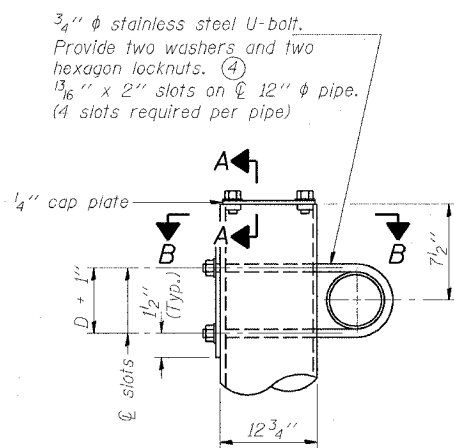
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

OSS-18

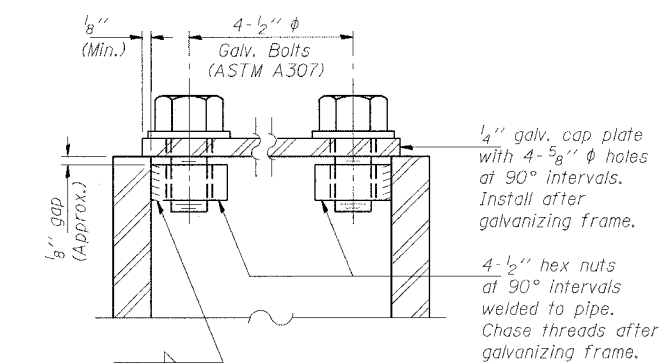
6/27/2006 11:17:56 AM P:\P\066\CHINA\CHINA 18 & 19 SIGN\CHINA\CHINA\CHINA\CHINA

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL
F.A.I. RTE. 90/94		COOK	312	146
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
• (1919.15 & 2021-922 PT.1) R-1				

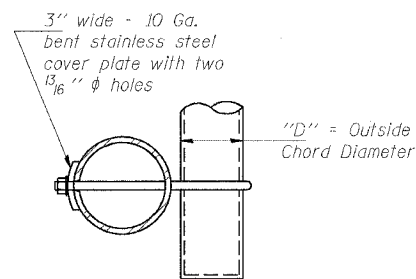


DETAIL A

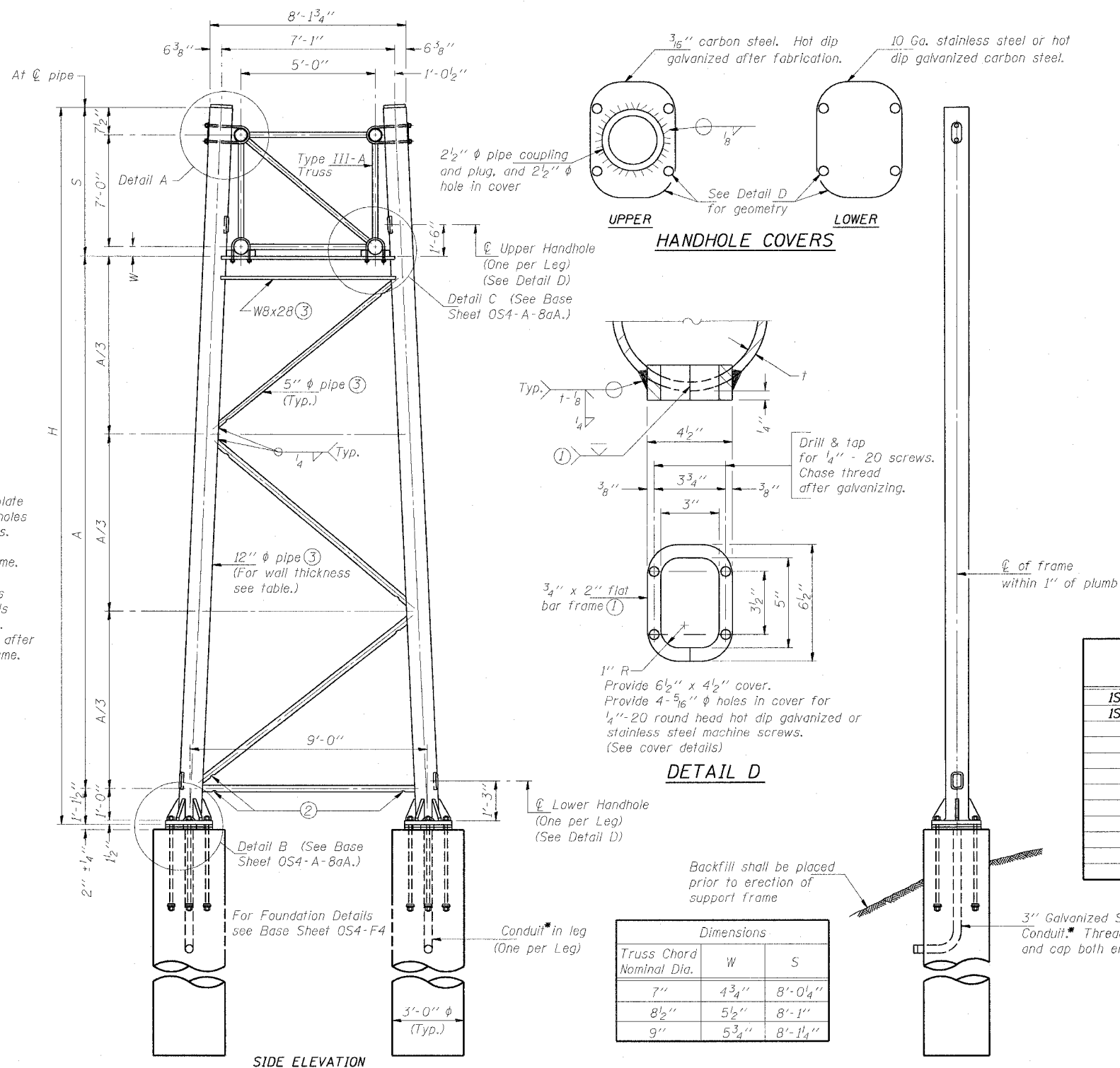


SECTION A-A

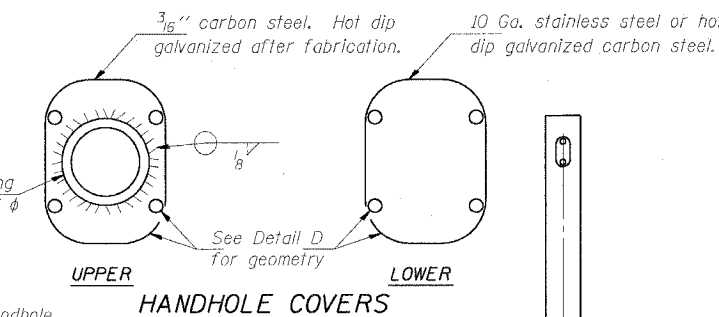
As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



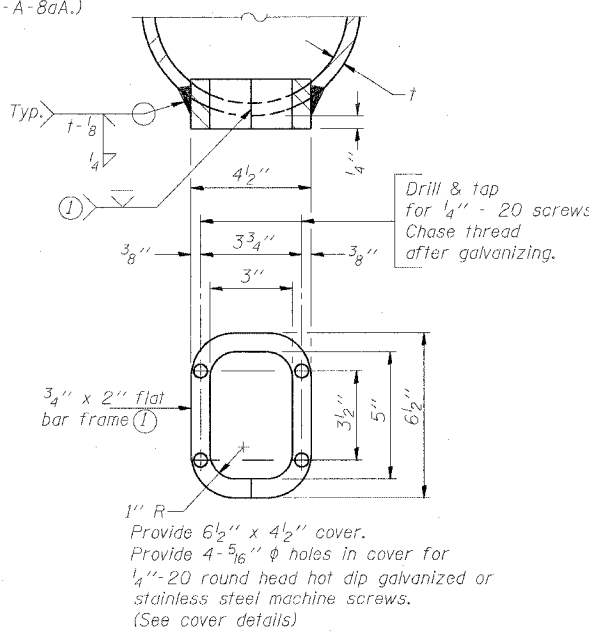
SECTION B-B



SIDE ELEVATION



HANDHOLE COVERS



DETAIL D

Dimensions		
Truss Chord Nominal Dia.	W	S
7"	4 3/4"	8'-0 1/4"
8 1/2"	5 1/2"	8'-1"
9"	5 3/4"	8'-1 1/4"

TRUSS SUPPORT DETAILS  
(12"  $\phi$  Pipe-Type III-A Truss)

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

- In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500  $\mu$ in or less.
- Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- See General Notes for Fasteners.
- Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.

Structure Number	Station	Support		Pipe Wall Thickness	H	A
		Left	Right			
ISO161094L058.1	4455+50.00	X		0.330	24.46'	15.31'
ISO161094L058.1	4455+50.00		X	0.330	21.90'	12.75'

DESIGNED - JSS	20
CHECKED - RDP	EXAMINED
DRAWN - JSS	PASSED
CHECKED - RDP	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

\* COORDINATE WITH CONTRACT 62583 FOR LOCATION, TYPE, AND ORIENTATION OF CONDUIT.

OSS-19  
**OVERHEAD SIGN STRUCTURES  
SUPPORT FRAME for TYPE III-A ALUMINUM TRUSS**  
  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

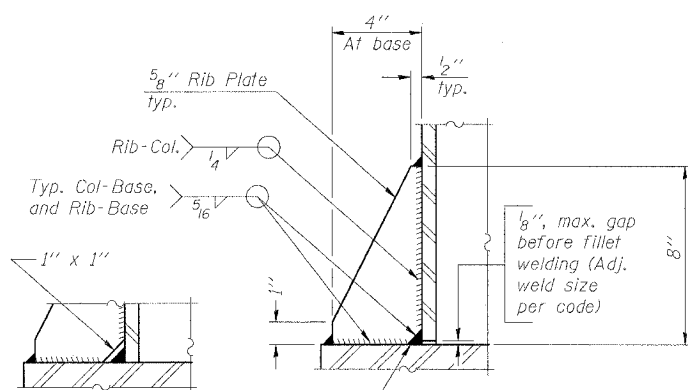
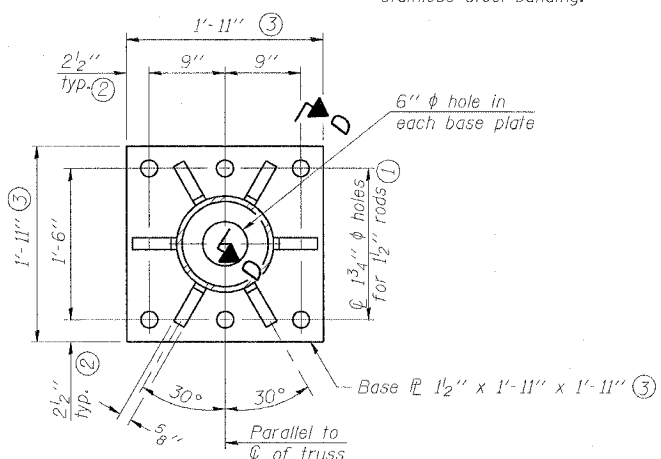
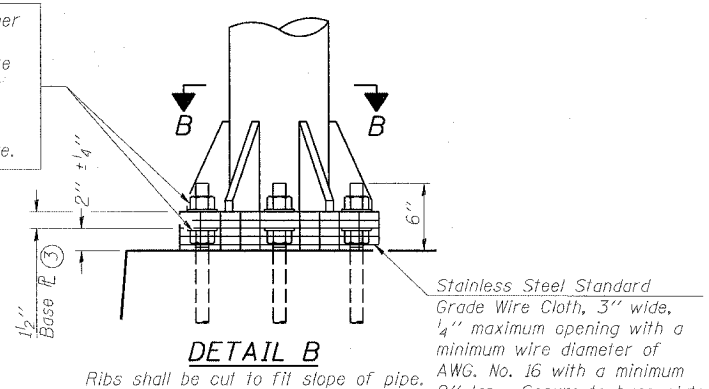
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 51/94	*	COOK	312	147
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT -		

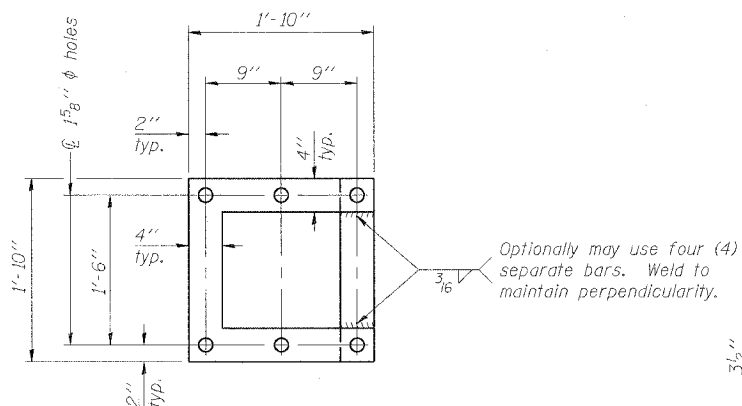
(19) 9.15 & 2021-922 PT. 1) R-1 60A62

Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.



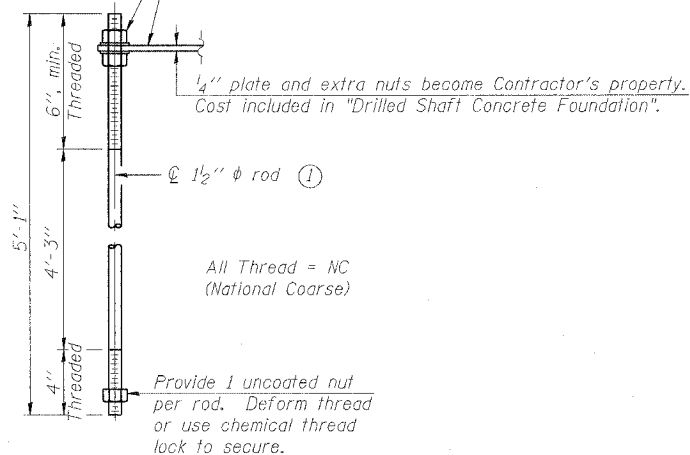
\*\* Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.

**SECTION D-D**



**POSITIONING PLATE(S)**

At each location, provide 1/4" thick positioning plate(s) and six (6) additional nuts to be used with leveling nuts to maintain anchor bolts position during concrete placement.



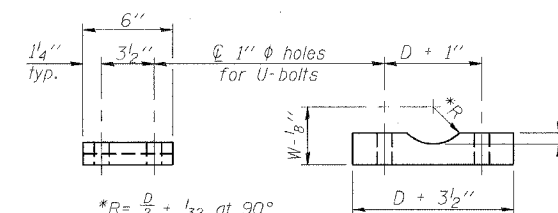
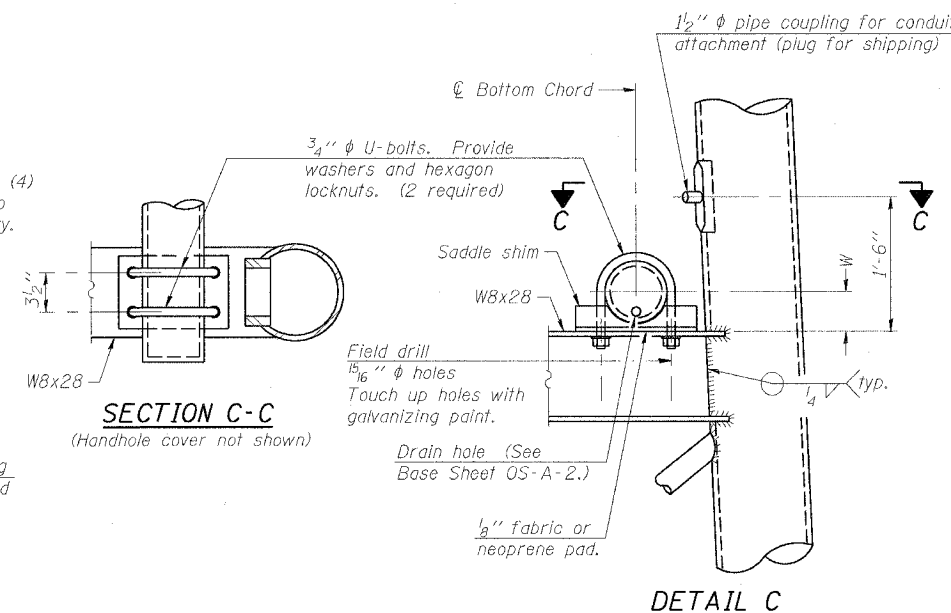
**ANCHOR ROD DETAIL**

Anchor rods shall conform to AASHTO M314 Grade 36 or 55 and meet Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. Galvanize upper 12" per AASHTO M232. No welding shall be permitted on rods.

**TYPE III-A TRUSS  
12" φ PIPE SUPPORT FRAME DETAILS**

Notes:  
For Type III-A Truss spans greater than 150 ft. and up to 160 ft.:

- ① 1 3/4" φ rod, 2" φ holes
- ② 2 3/4" edge distance
- ③ Base Pl. 1 5/8" x 1'-11 1/2" x 1'-11 1/2"



Truss Chord Nominal Dia.	a
7"	1"
8 1/2"	1 1/4"
9"	1 3/8"

**SADDLE SHIM DETAIL**  
ASTM B26 Alloy 356-F  
or  
ASTM B209 Alloy 6061-T651  
(4 required per sign truss)

DESIGNED	JSS
CHECKED	RDP
DRAWN	JSS
CHECKED	RDP

EXAMINED	20
PASSED	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

OS4-A-8aA

1-7-05

**OVERHEAD SIGN STRUCTURES  
SUPPORT FRAME for TYPE III-A ALUMINUM TRUSS**

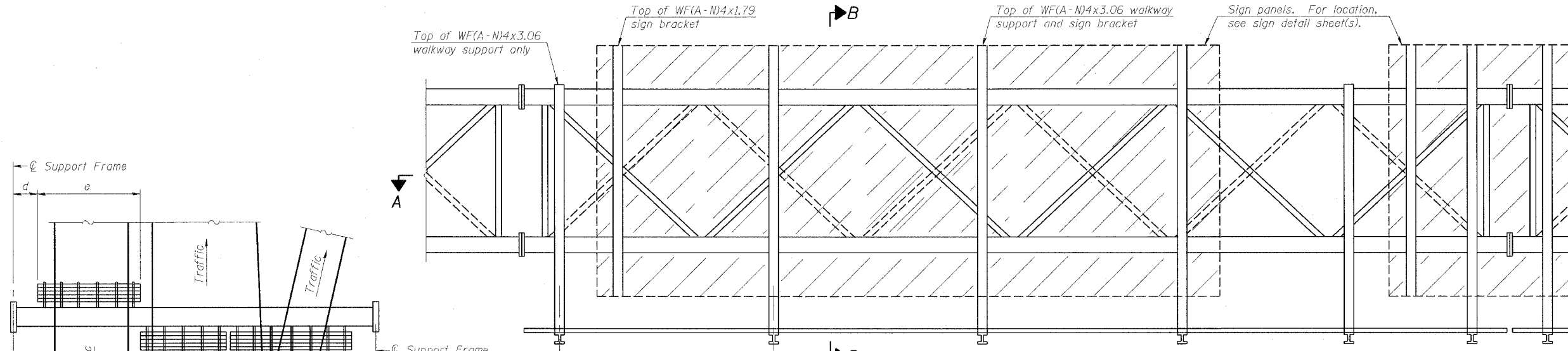
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

OSS-20

1/18/07 AM 5/2/2006

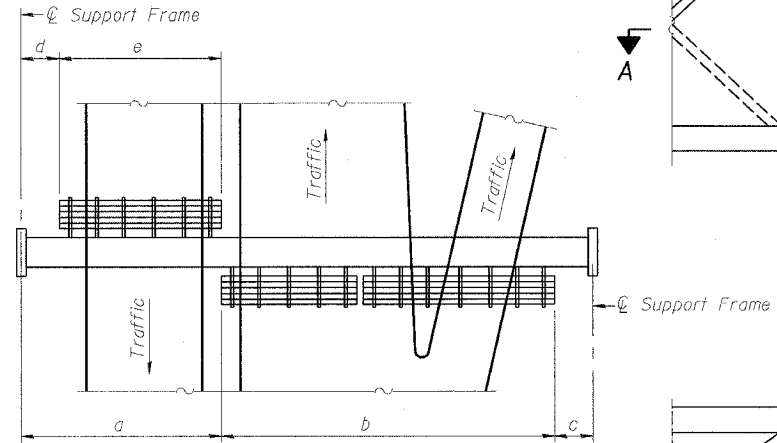
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RIF. 90/94		COOK	312	148
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		
				60AB2

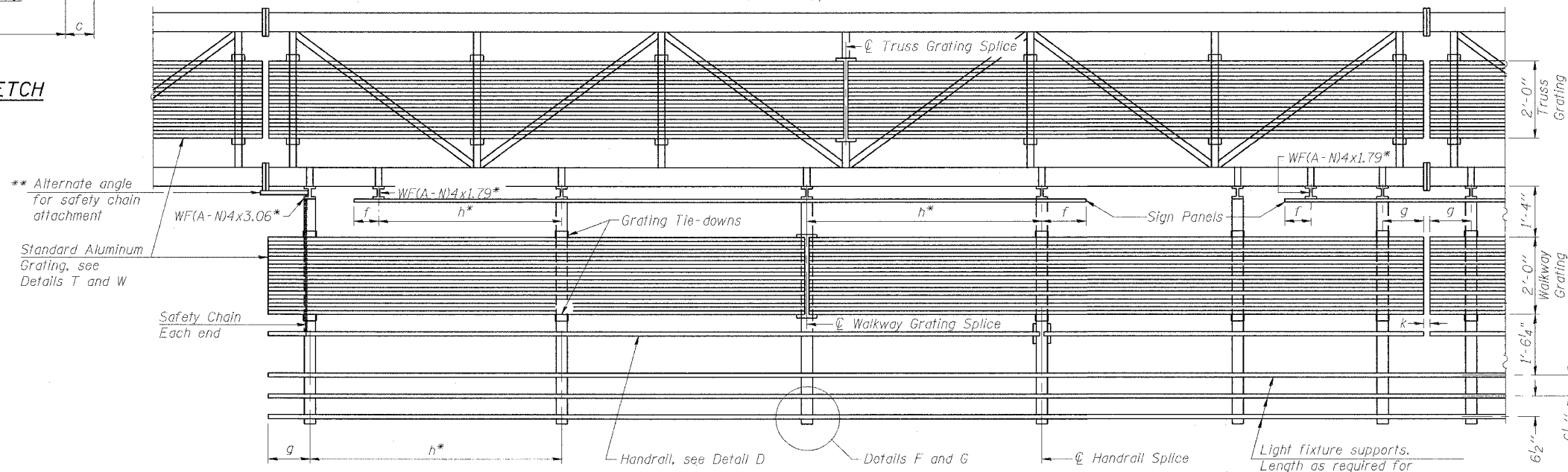


TYPICAL FRONT ELEVATION

With lights and handrail omitted for clarity.  
For Section B-B, see Base Sheet OS-A-10.



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



SECTION A-A

Handrail and walkway shall span a minimum of three brackets between spans and/or gap joints.  
Place all sign and walkway brackets as close to panel points as practical.  
Grating, handrail and light support splices placed as needed.

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

BRACKET TABLE

Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

\*\* Alternate angle for safety chain attachment

Standard Aluminum Grating, see Details T and W

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

Notes:

\* Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to center of nearest bracket)  
g = 12" maximum, 4" minimum (End of walkway grating to center of nearest support bracket)  
h = 6'-0" maximum (center to center of sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)  
k = 2" maximum gap between adjacent walkway grating sections and handrail ends

\*\* If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet OS-A-11.

For Details T and W, Section B-B and Grating Splice Details, see Base Sheet OS-A-10.  
For Details D, F, G and P and Handrail Splice Details, see Base Sheet OS-A-11.

DESIGNED - JSS	20
CHECKED - RDP	EXAMINED
DRAWN - JSS	PASSED
CHECKED - RDP	

ENGINEER OF STRUCTURAL SERVICES
ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths
ISO161094L058.8	4421+30.00	7.87'	42.0'	14.13'	---	---	46.0'

OS-A-9

1-7-05

OVERHEAD SIGN STRUCTURES  
ALUMINUM WALKWAY DETAILS

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

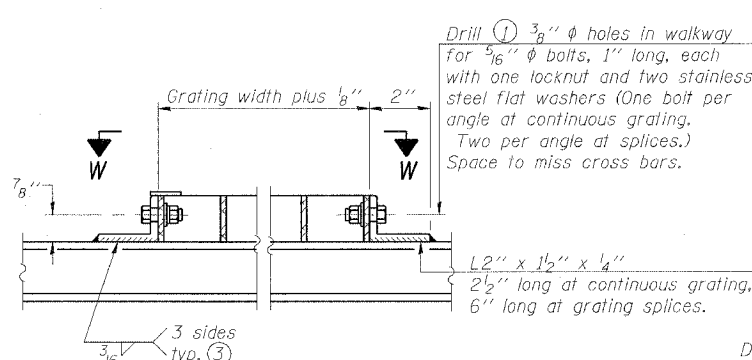
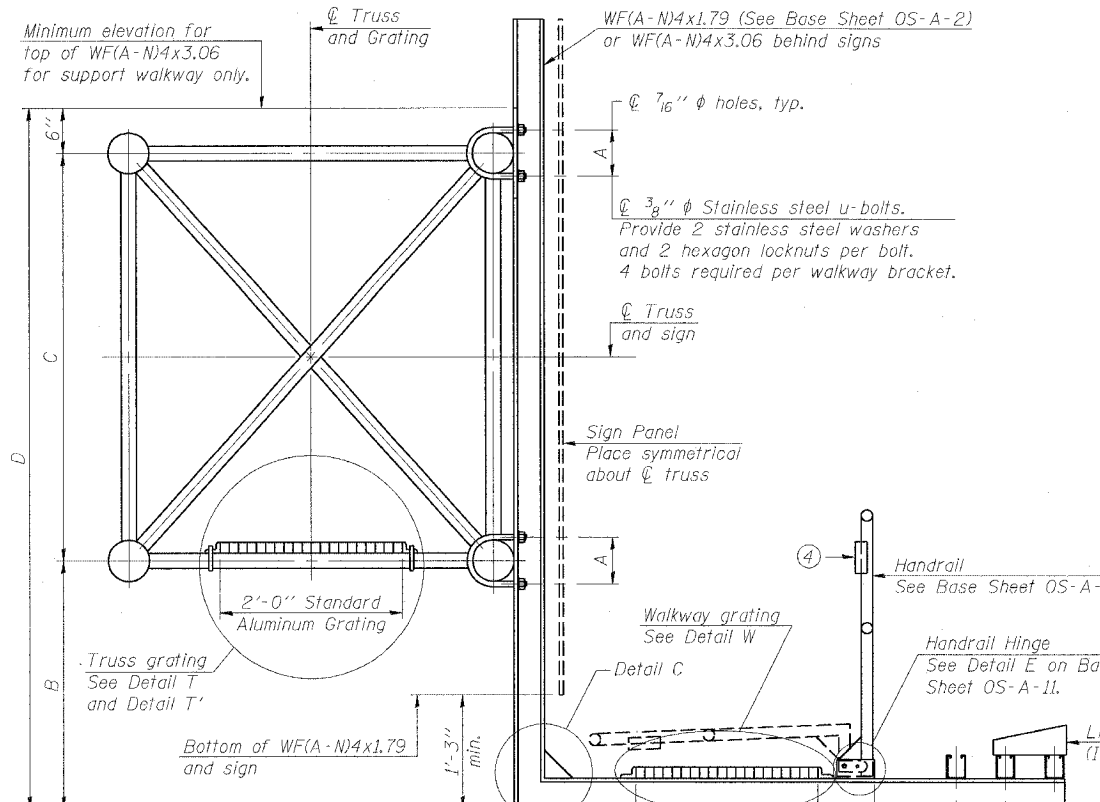
OSS-21

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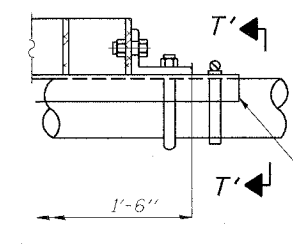
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

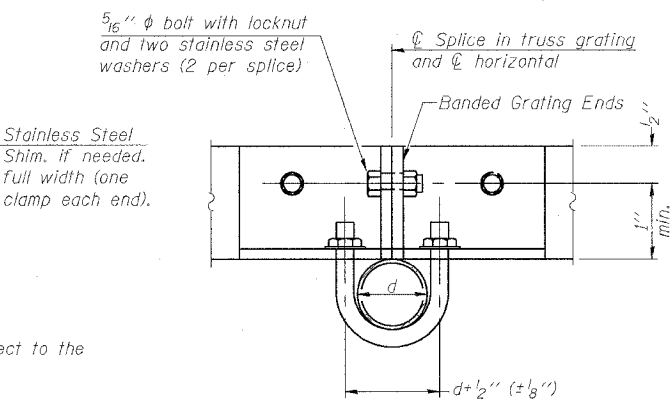
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL
F.A.I. RTE. 90/94		COOK	312	149
FED. RDW. DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
* US19,15 & 2071-922 PT.11 R-1 60A62				



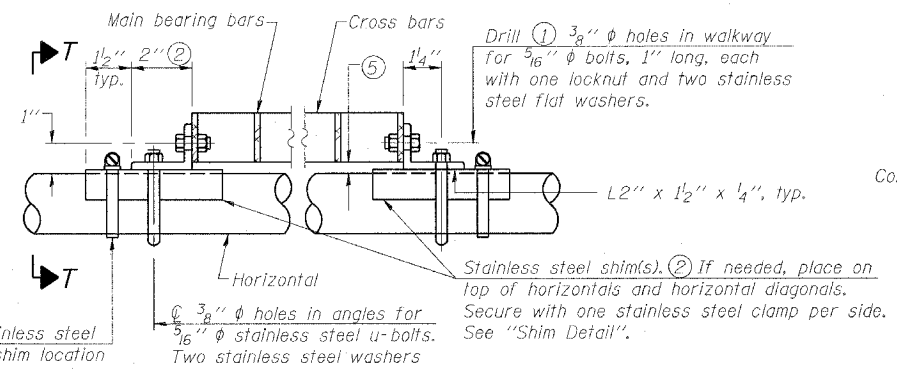
**DETAIL W**  
(Walkway grating)



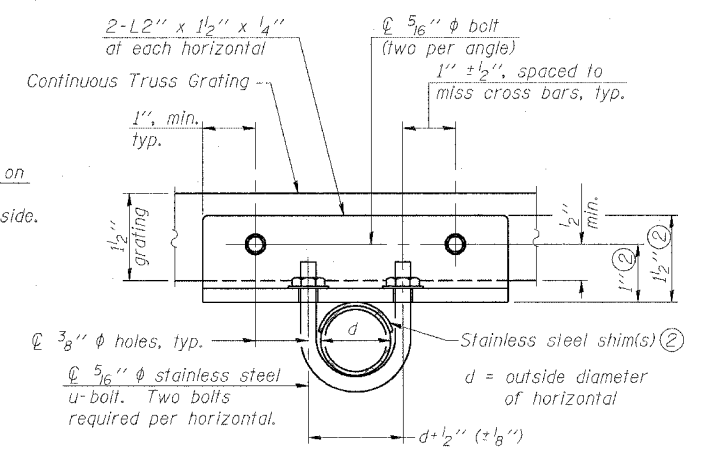
**DETAIL T'**  
(Truss grating splice)  
Details not shown same as Detail T. Alternate materials may be used subject to the Engineer's review and approval.



**SECTION T'-T'**



**DETAIL T**  
(Continuous Truss grating)



**SECTION T-T**

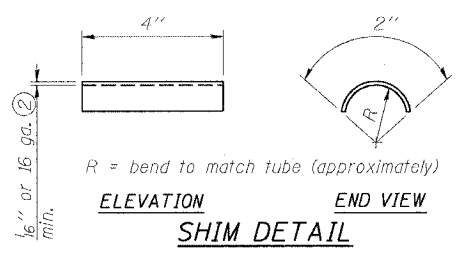
**SPECIFICATIONS FOR STANDARD ALUMINUM GRATING**

Main Bearing Bars shall be 3/16" x 1 1/2" on 13/16" centers and conform to ASTM B221 Alloy 6061-T6.  
Cross bars shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

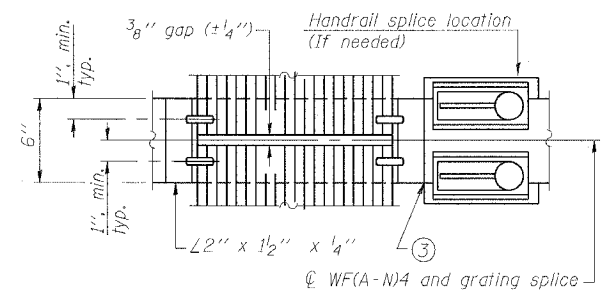
**OR**

Aluminum Grating with modified "I" sections for main bearing bars shall meet the following requirements:  
Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.<sup>3</sup> per bar, a depth of 1 1/2", spaced on 13/16" centers.  
Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

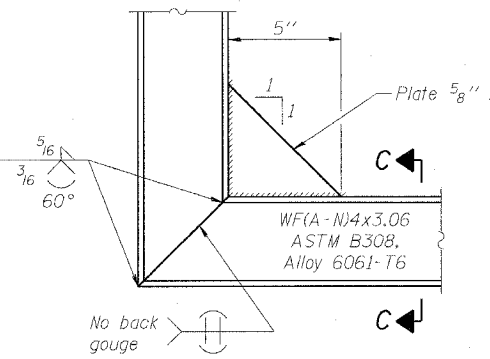
Structure Number	Station	A	B	C	D
ISO161094L058.8	4421+30	5"	3'-0"	4'-6"	8'-0"



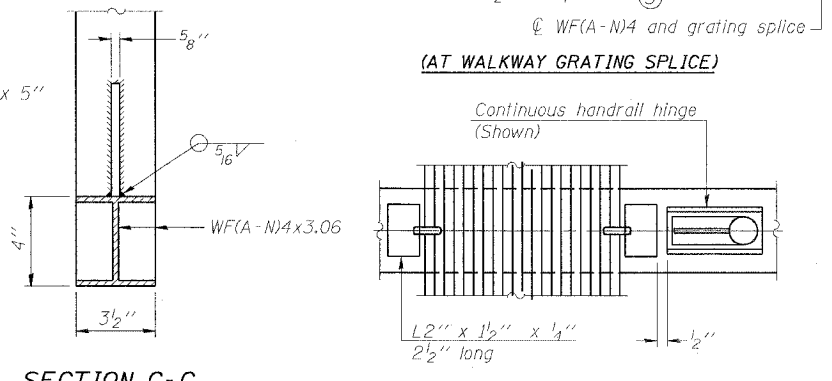
**SECTION B-B**



(AT WALKWAY GRATING SPLICE)



**SECTION C-C**



**SECTION W-W**  
(CONTINUOUS WALKWAY GRATING)

DESIGNED - JSS	20
CHECKED - RDP	EXAMINED
DRAWN - JSS	PASSED
CHECKED - RDP	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

OS-A-10

1-7-05

OSS-22

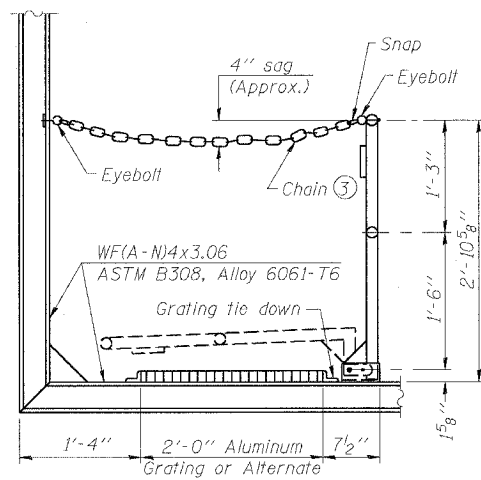
**OVERHEAD SIGN STRUCTURES  
ALUMINUM WALKWAY DETAILS**

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

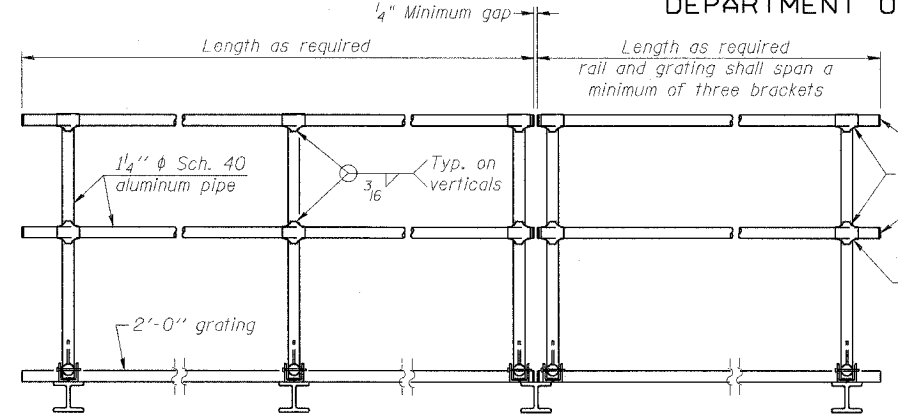
6/27/2006 11:18:39 AM P:\40466C\W\B-C\118 & 19\5\1\CHTR\BANSIGNING\SS\BHD222A.dgn

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DIST. SHEETS	SHEET NO.
F.A.I. RTE. 90/94	*	COOK	312	150
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
(1919,15 & 2021-922 PT.1) R-1				



**SIDE ELEVATION**  
(Showing safety chain w/o sign)

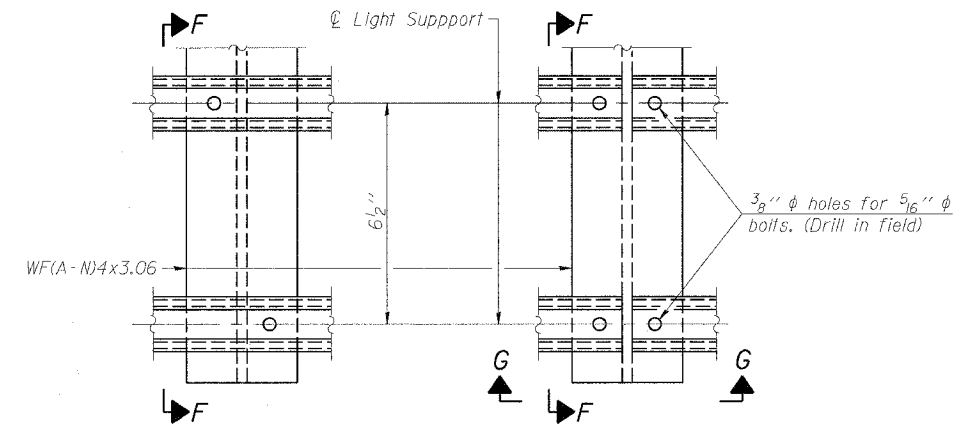


**FRONT ELEVATION**

**HANDRAIL DETAILS**

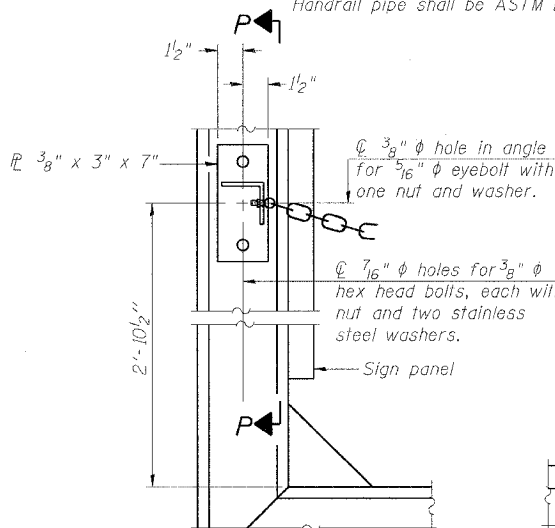
Handrail pipe shall be ASTM B241, Alloy 6063-T6 or Alloy 6061-T6.

- Install standard force-fit end caps or weld 1/2" end plates with 1/2" c.f.w. and grind smooth. (All rail ends)
- Horizontal handrail member shall be continuous thru fitting. Provide 7/16" hole in fitting for 3/8" bolt. Field drill 7/16" hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 5/16" eyebolts in 7/16" holes on top rail at ends only.)



**DETAIL F**

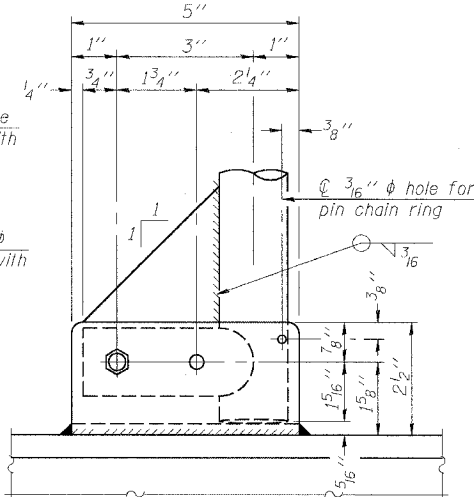
**DETAIL G**



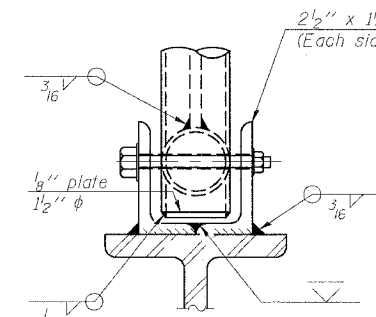
**ALTERNATE SAFETY CHAIN ATTACHMENT**

(With Sign Present)

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

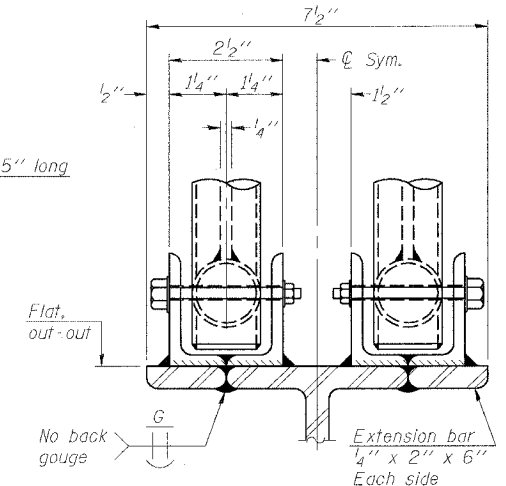


**SIDE ELEVATION**

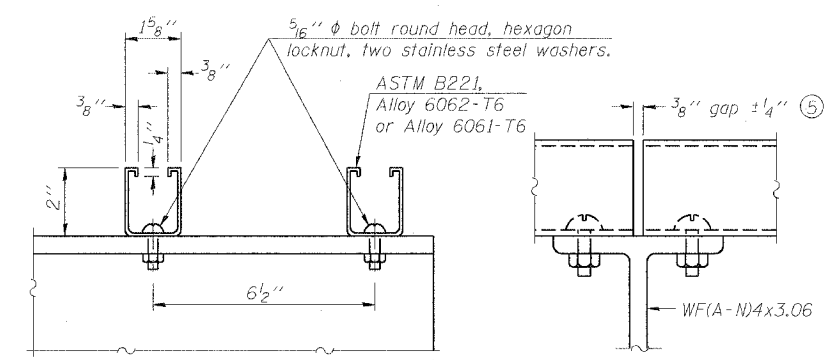


**FRONT ELEVATION**

See "Elevation" at right for dimensions.



**ELEVATION AT HANDRAIL JOINT**

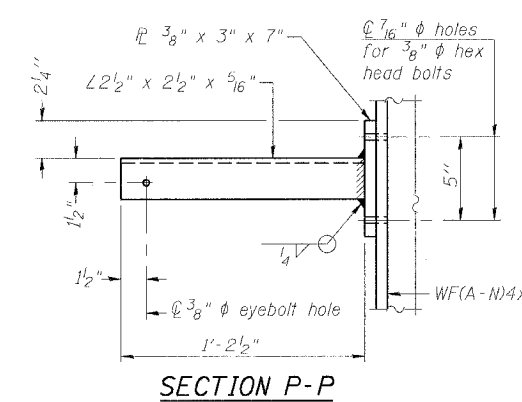


**SECTION F-F**

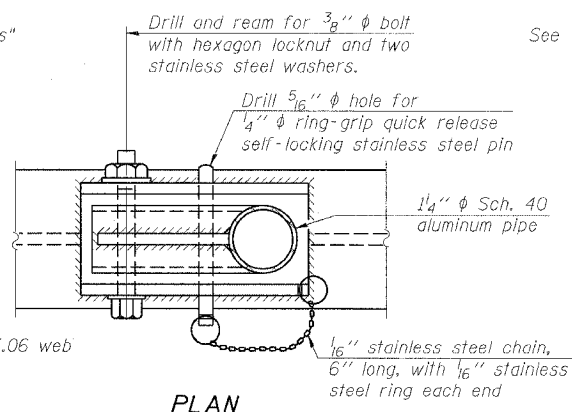
**SECTION G-G**

**LIGHTING FIXTURE MOUNTS (IF REQUIRED)**

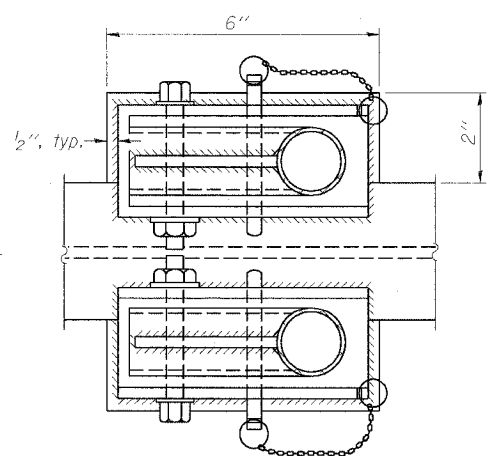
- Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.



**SECTION P-P**

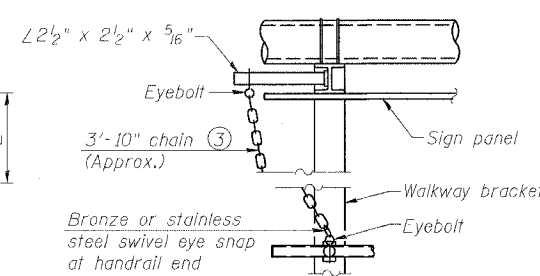


**DETAIL E HANDRAIL HINGE**



**PLAN AT HANDRAIL JOINT**

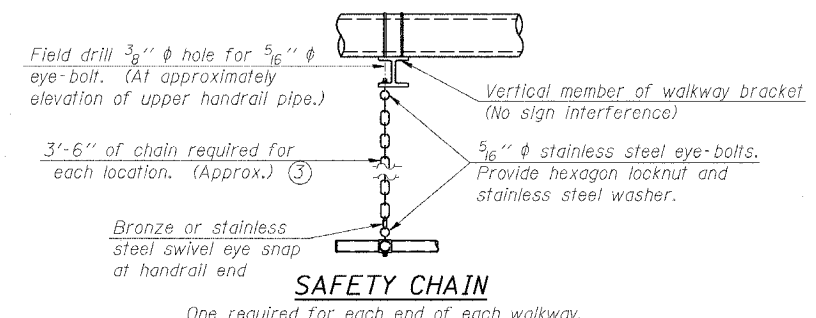
Details not shown same as "PLAN"



**ALTERNATE SAFETY CHAIN ATTACHMENT**

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

- 3/16" galvanized steel chain, approximately 12 links per foot. Chain to be hot dip galvanized after manufacture and suitable for prolonged exterior exposure. Alternate materials may be substituted with the Engineer's approval.
- Extrusions may be used in lieu of the details shown, with approval of the Engineer.



**SAFETY CHAIN**

One required for each end of each walkway.

DESIGNED - JSS	20
CHECKED - RDP	EXAMINED
DRAWN - JSS	PASSED
CHECKED - RDP	ENGINEER OF BRIDGES AND STRUCTURES

DESIGNED - JSS	20
CHECKED - RDP	EXAMINED
DRAWN - JSS	PASSED
CHECKED - RDP	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

OS-A-11

1-7-05

**OVERHEAD SIGN STRUCTURES  
ALUMINUM HANDRAIL DETAILS**

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

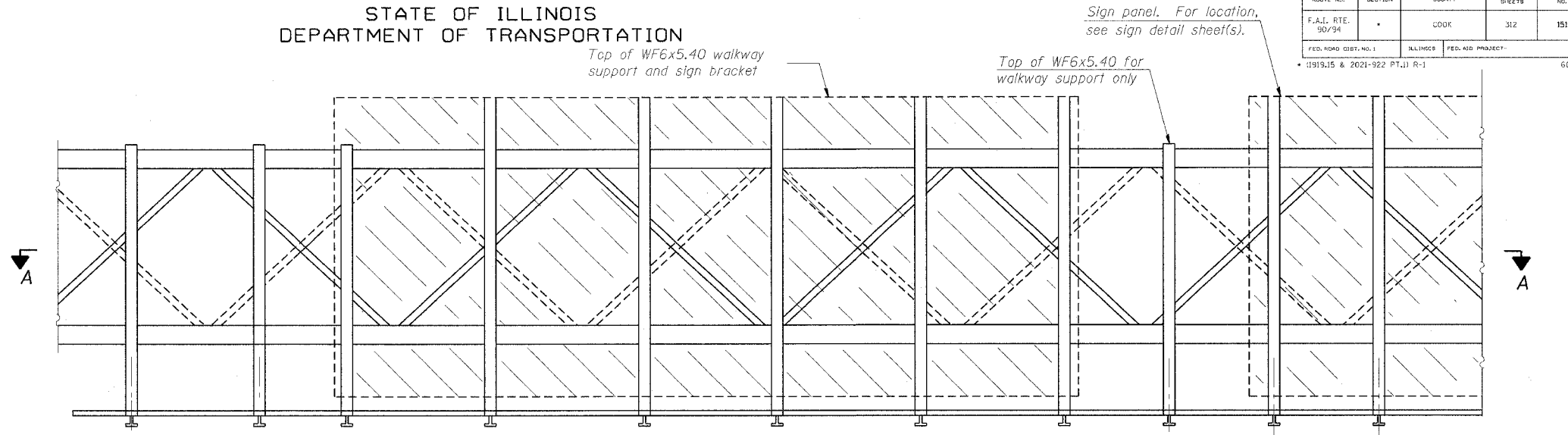
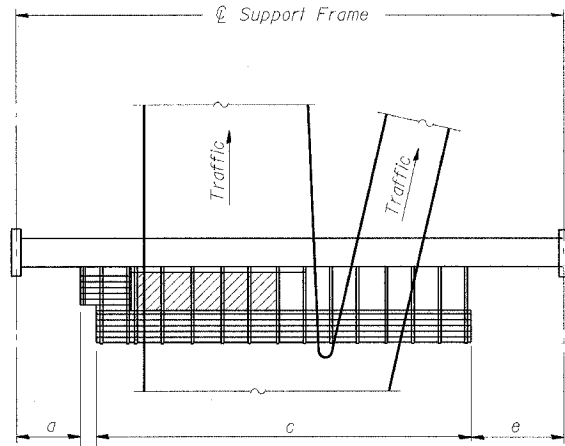
OSS-23

6/27/2006 11:50 AM



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

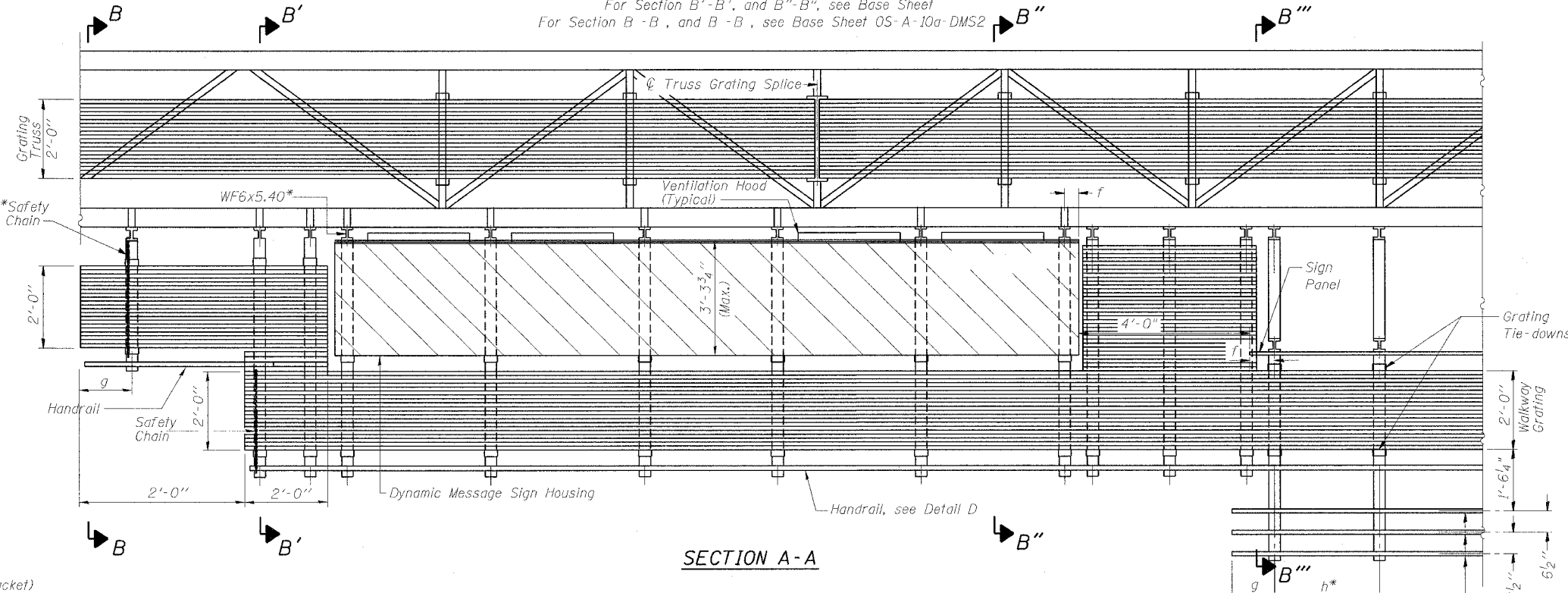
ROUTE NO.	SECTION	COUNTY	FEET IN MILES	SHEET NO.
F.A.I. RTE. 90/94		COOK	312	151
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
1919, 15 & 2021-922 (T.I.) R-1				



BRACKET TABLE

WF6x5.40 ASTM B308, Alloy 6061-T6	
Sign Width	Number Brackets Required
26'-1"	6
12'-0"	6

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



Notes: \*Space WF6x5.40 brackets for efficiency and within limits shown:

- f = 12" maximum, 4" minimum (End of sign to center of nearest bracket)
- g = 12" maximum, 4" minimum (End of walkway grating to center of nearest support bracket)
- h = 6'-0" maximum (center to center of walkway support brackets, WF6x5.40)

\*\*If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet OS-A-11-DMS2

For Details T and W, Section B-B and Grating Splice Details, see Base Sheet OS-A-10-DMS2.  
For Details D, F, G and P and Handrail Splice Details, see Base Sheet OS-A-11-DMS2.

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Grating and handrail splices placed as needed.

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

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

DESIGNED - JSS	20
CHECKED - RDP	EXAMINED
DRAWN - JSS	PASSED
CHECKED - RDP	ENGINEER OF BRIDGES AND STRUCTURES

20	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths
ISO161094L058.1	4455+50.00	1.11'	2.00'	46.50'	0	18.39'	46.50'

OSS-24

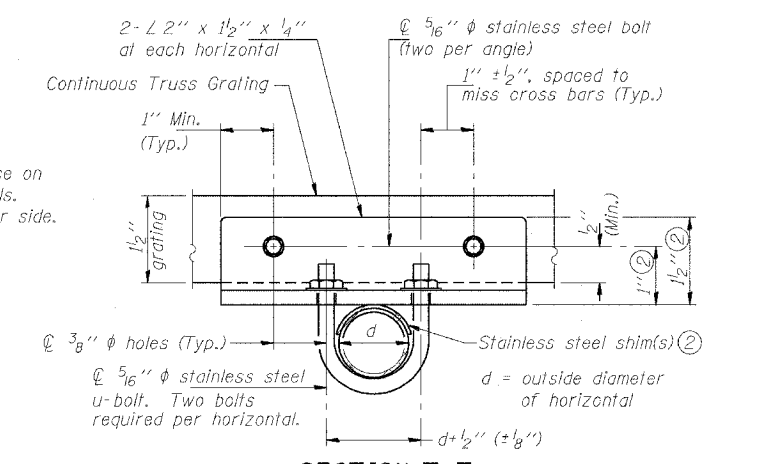
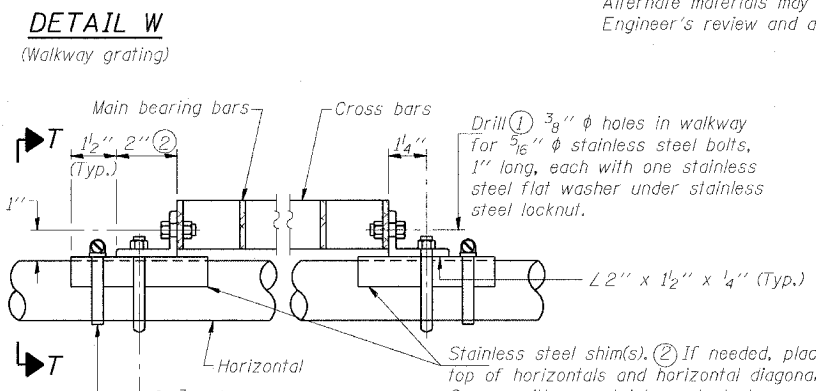
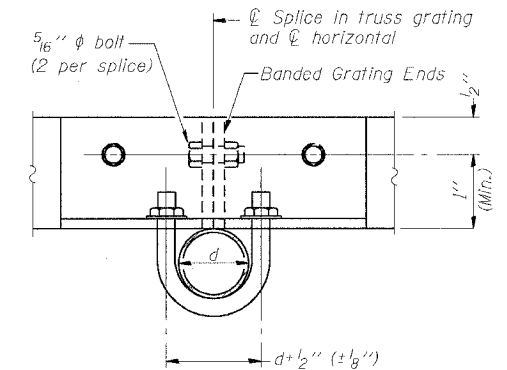
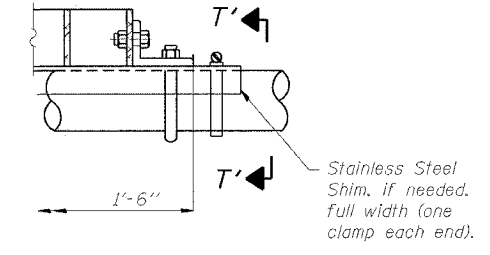
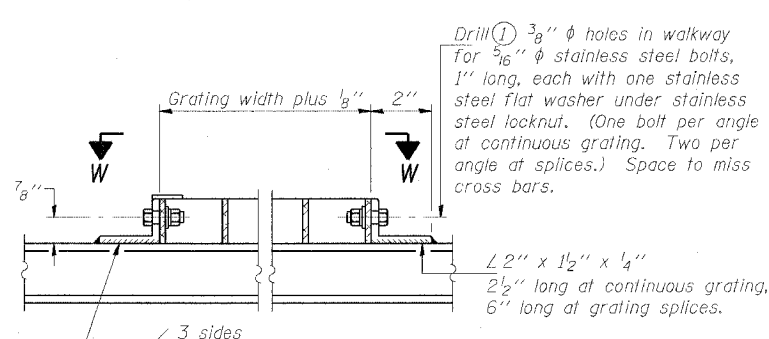
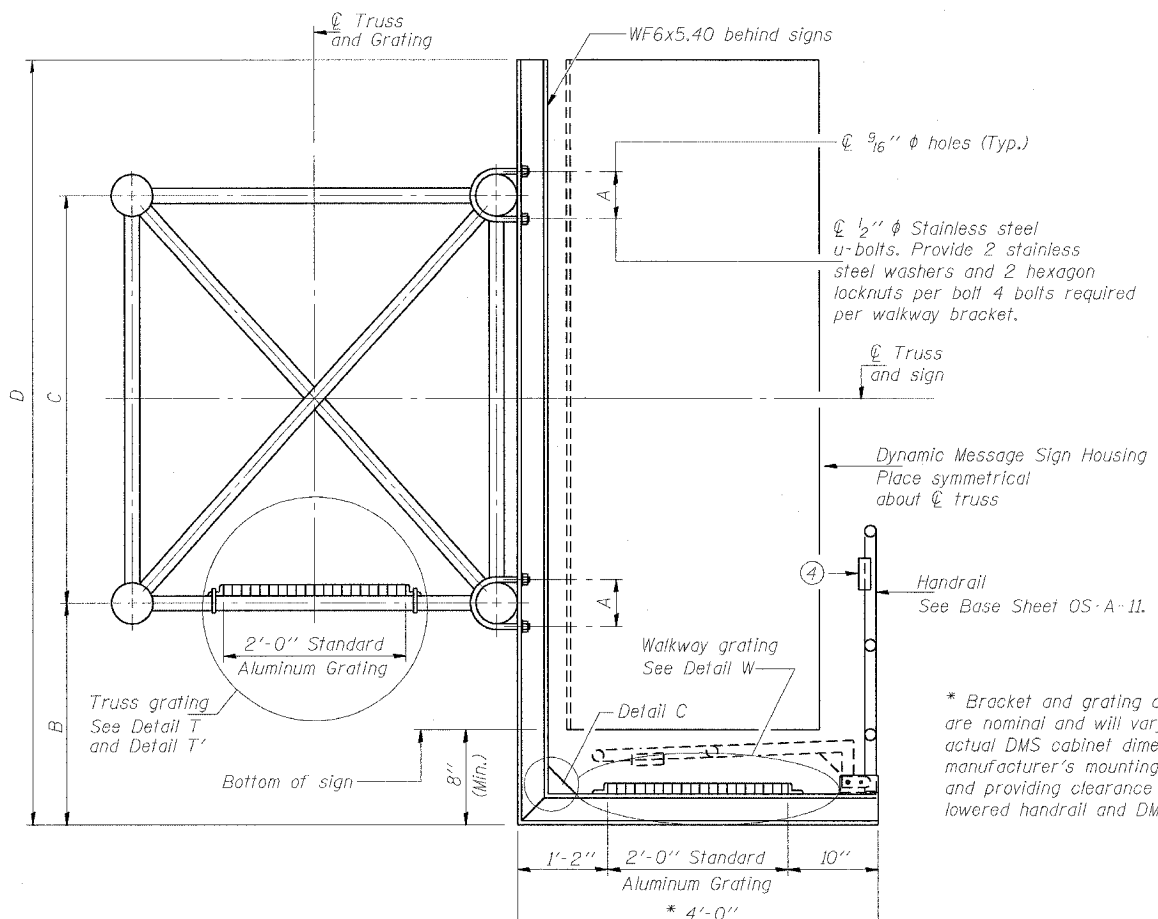
**OVERHEAD SIGN STRUCTURES  
ALTERNATE ALUMINUM WALKWAY DETAILS**

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

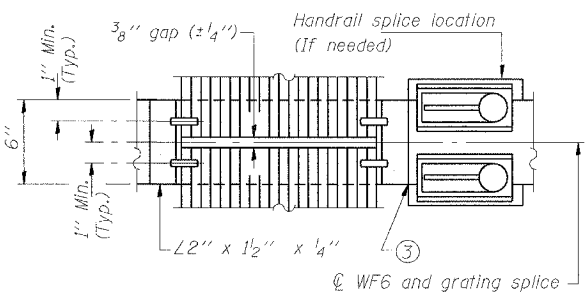
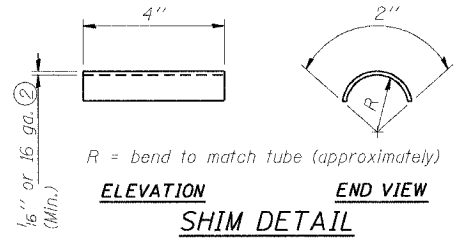
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 90/94		COOK	312	152
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
(1919.15 & 2021-922 PT.1) R-1				60462



SECTION B-B



SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

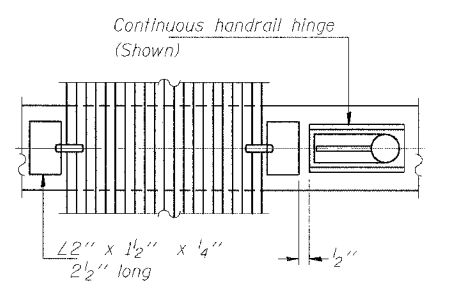
Main Bearing Bars shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.  
Cross bars shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "T" sections for main bearing bars shall meet the following requirements:  
Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.<sup>3</sup> per bar, a depth of 1 1/2", spaced on 1 3/16" centers.  
Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- If Handrail Joint present, weld angle to WF6 and 1/4" extension bars. (See Base Sheet OS-A-11-DMS2.)
- 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.

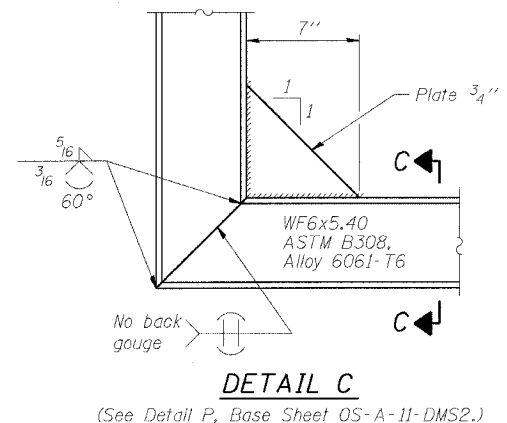
(AT WALKWAY GRATING SPLICE)



SECTION W-W

NUMBER	REVISION	DATE

Structure Number	Station	A	B	C	D
ISO161094L058.1	4455+50.00	7 1/2"	2'-0"	7'-0"	9'-9"



DETAIL C

SECTION C-C

DESIGNED - JSS	20
CHECKED - RDP	EXAMINED
DRAWN - JSS	PASSED
CHECKED - RDP	ENGINEER OF BRIDGES AND STRUCTURES

OS-A-10-DMS2 7/1/2001

OVERHEAD SIGN STRUCTURES  
ALTERNATE ALUMINUM WALKWAY DETAILS

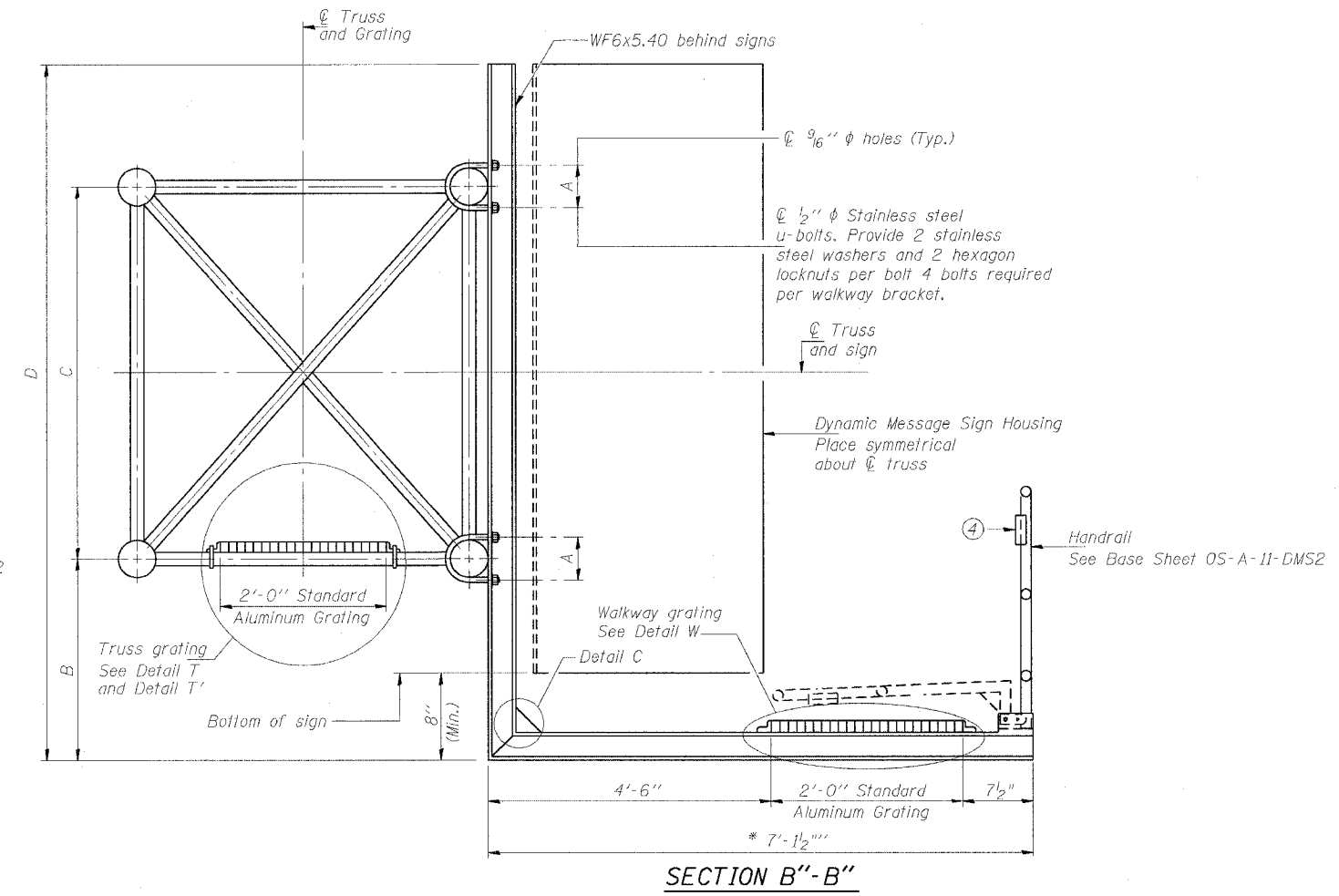
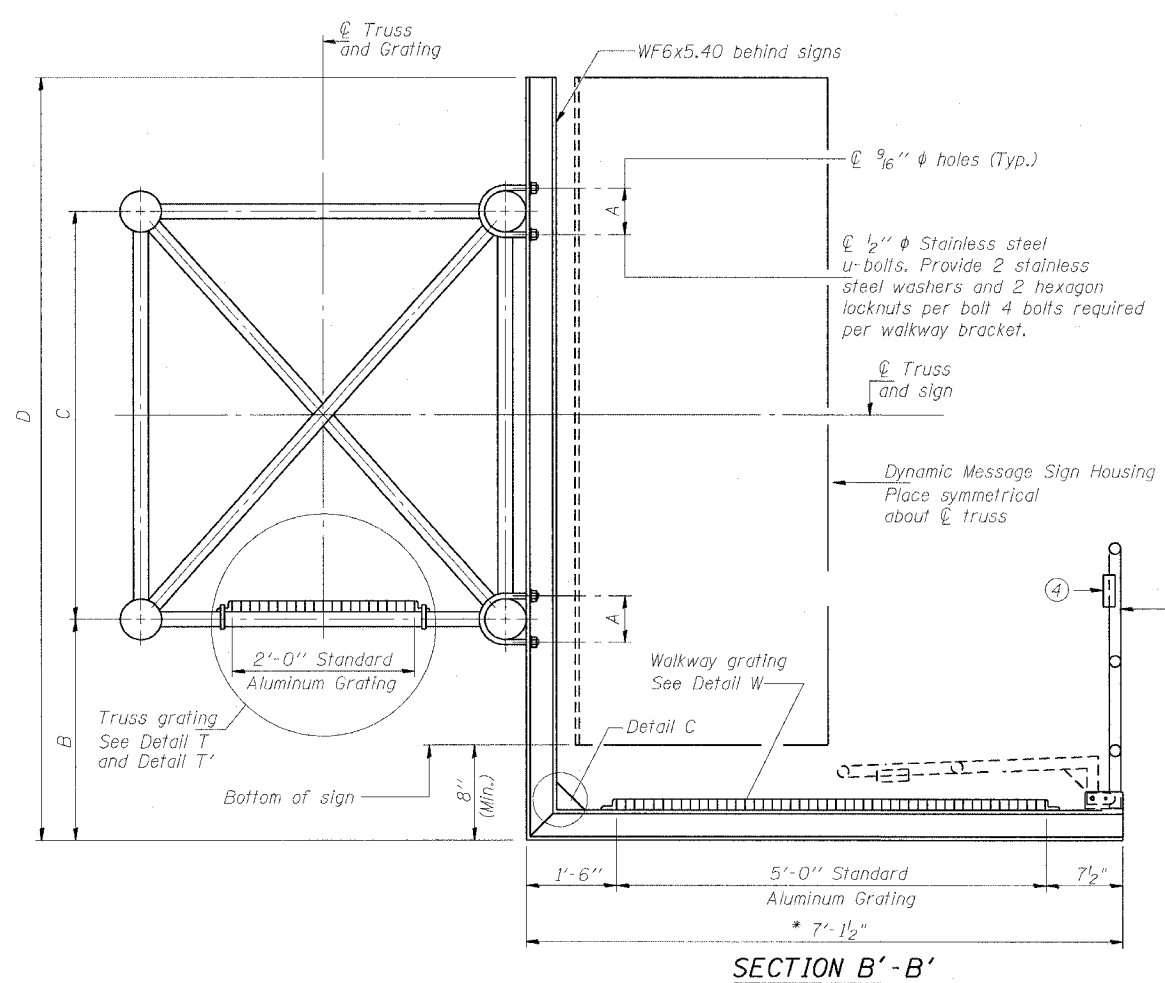
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

OSS-25

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET
F.A.I. RTE. 90/94	*	COOK	312	153
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
11519.15 & 2021-922 PT. II R-1				60462



\* Bracket and grating dimensions are nominal and will vary based on actual DMS cabinet dimensions plus manufacturer's mounting devices, and providing clearance between the lowered handrail and DMS cabinet.

Note:  
For dimensions "A" to "D" and remaining details, see sheet OS-A-10-DMS2

DESIGNED - JSS	20
CHECKED - RDP	EXAMINED
DRAWN - JSS	PASSED
CHECKED - RDP	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

OSS-26

OVERHEAD SIGN STRUCTURES  
ALTERNATE ALUMINUM WALKWAY DETAILS

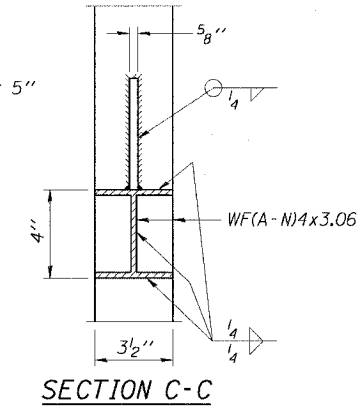
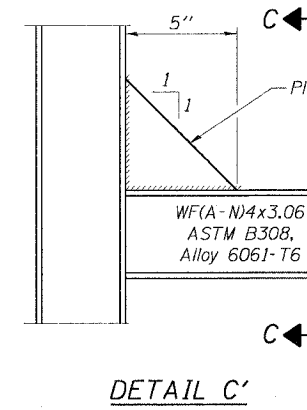
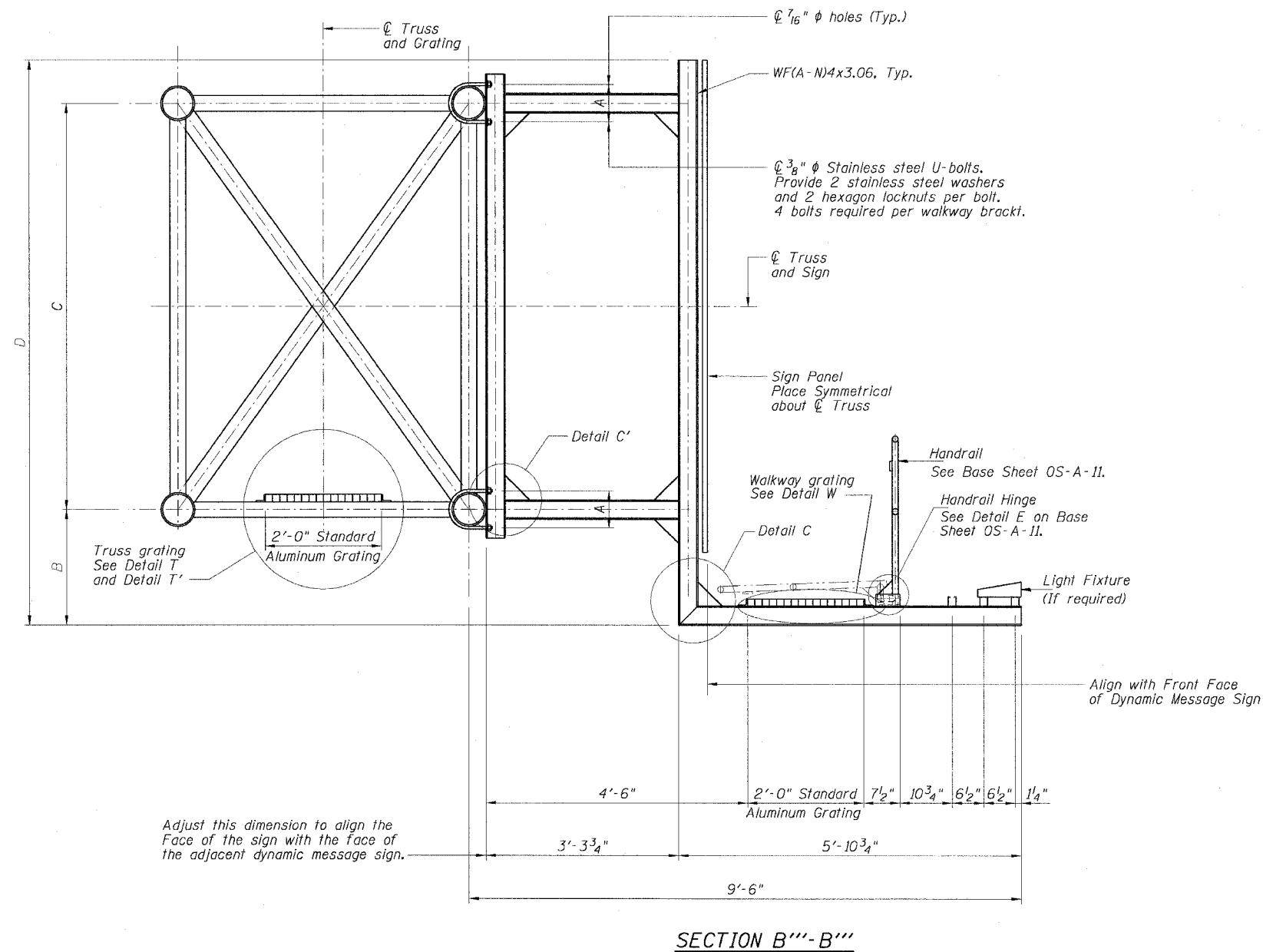
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 90/94		COOK	312	154
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		

• (1919, 15 & 2021-922 PT.1) R-1 60A62



DESIGNED	- JSS
CHECKED	- RDP
DRAWN	- JSS
CHECKED	- RDP

20	EXAMINED
	ENGINEER OF STRUCTURAL SERVICES
	PASSED
	ENGINEER OF BRIDGES AND STRUCTURES

MODIFIED BY CTE ENGINEERS, INC FROM OS-A-9-DMS2

OSS-27

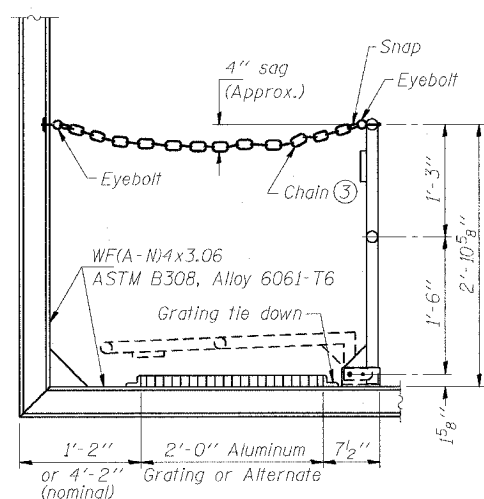
OVERHEAD SIGN STRUCTURES  
ALTERNATE ALUMINUM WALKWAY DETAILS

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

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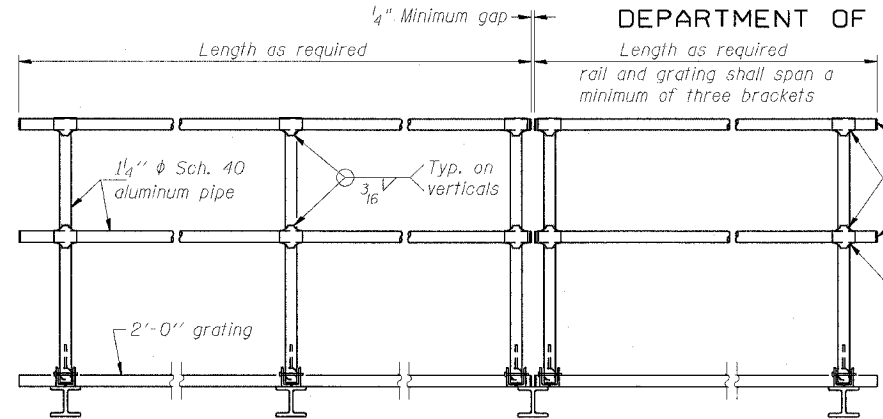
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 90/94		COOK	312	155
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
• (U919,15 & 2021-922 PT.1) R-1				



**SIDE ELEVATION**

(Showing safety chain w/o sign)



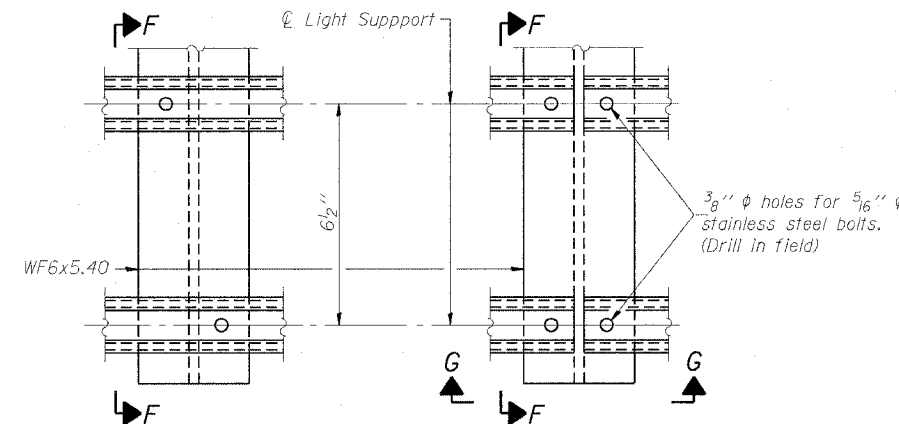
**FRONT ELEVATION**

**HANDRAIL DETAILS**

Handrail pipe shall be ASTM B241, Alloy 6063-T6 or Alloy 6061-T6.

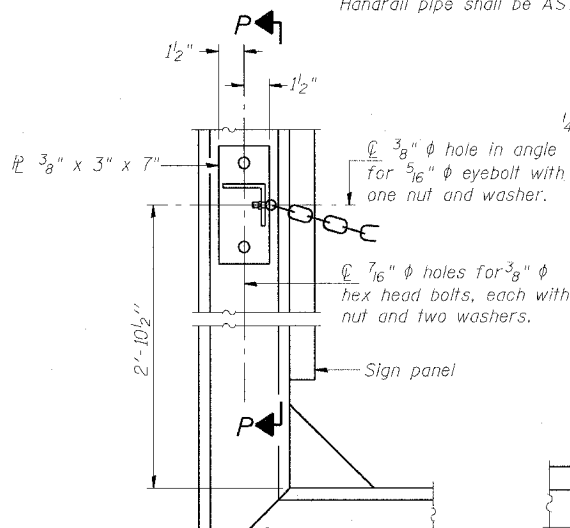
① Install standard force-fit end caps or weld 1/8" end plates with 1/8" c.f.w. and grind smooth. (All rail ends)

② Horizontal handrail member shall be continuous thru fitting. Provide 1/16" hole in fitting for 3/8" bolt. Field drill 1/16" holes in horizontal rail member. Provide washer and locknut for bolt. (Use 5/16" eyebolts in 1/16" holes on top rail at ends only.)



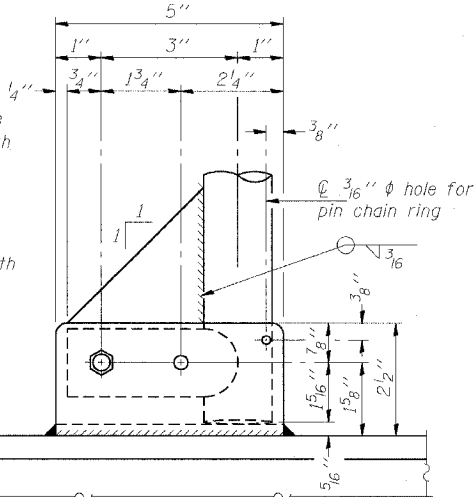
**DETAIL F**

**DETAIL G**

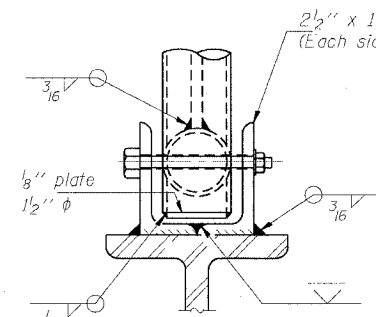


**ALTERNATE SAFETY CHAIN ATTACHMENT**

(With Sign Present)  
Items not shown same as "Side Elevation" of "Handrail Details"

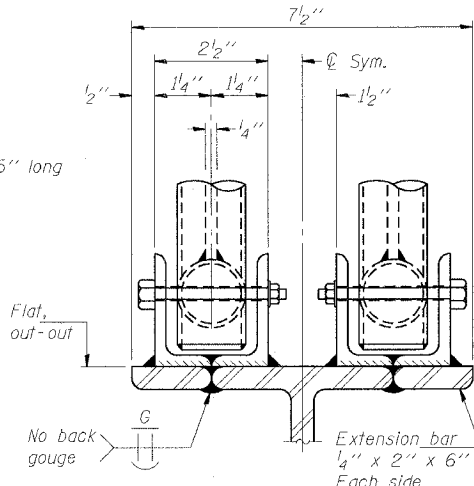


**SIDE ELEVATION**

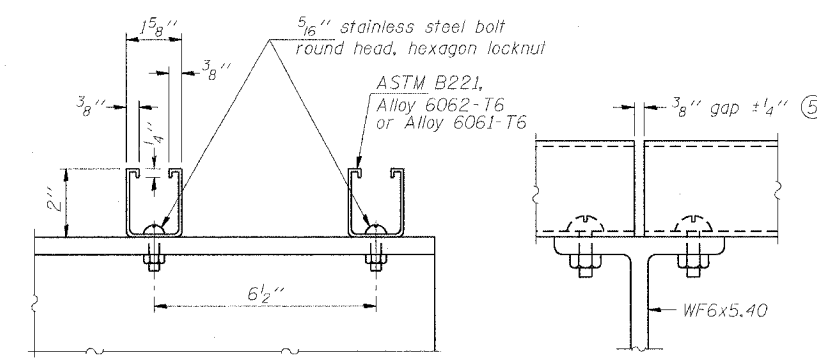


**FRONT ELEVATION**

See "ELEVATION" at right for dimensions.



**ELEVATION AT HANDRAIL JOINT**

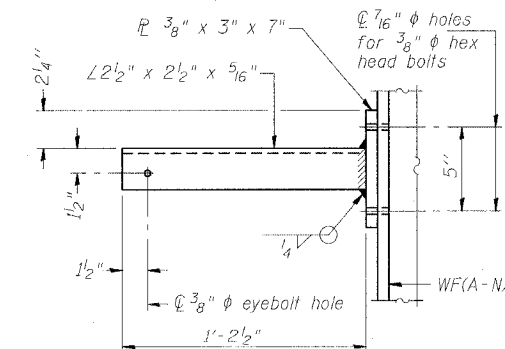


**SECTION F-F**

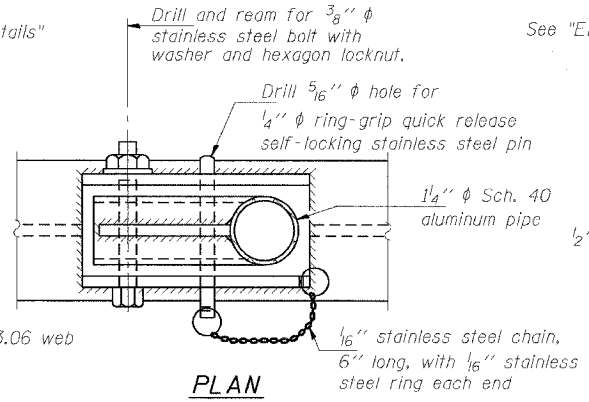
**SECTION G-G**

**LIGHTING FIXTURE MOUNTS (IF REQUIRED)**

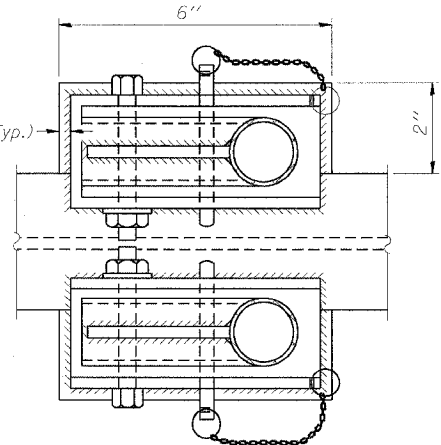
⑤ Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.



**SECTION P-P**

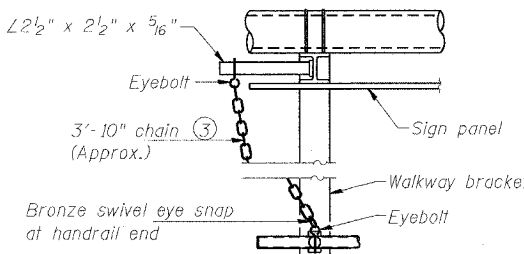


**PLAN  
DETAIL E HANDRAIL HINGE**



**PLAN AT HANDRAIL JOINT**

Details not shown same as "PLAN"

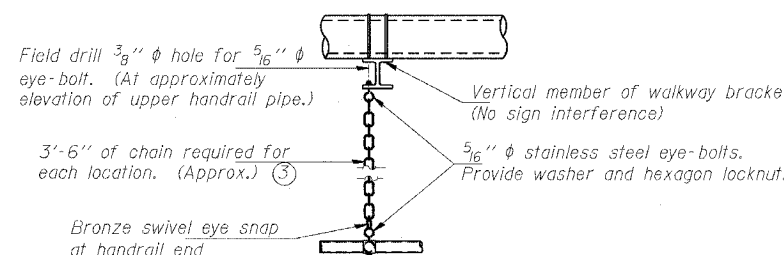


**ALTERNATE SAFETY CHAIN ATTACHMENT**

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

③ 3/16" galvanized steel chain, approximately 12 links per foot. Chain to be hot dip galvanized after manufacture and suitable for prolonged exterior exposure. Alternate materials may be substituted with the Engineer's approval.

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



**SAFETY CHAIN**

One required for each end of each walkway.

DESIGNED - JSS	20
CHECKED - RDP	EXAMINED
DRAWN - JSS	PASSED
CHECKED - RDP	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

OVERHEAD SIGN STRUCTURES  
ALTERNATE ALUMINUM HANDRAIL DETAILS

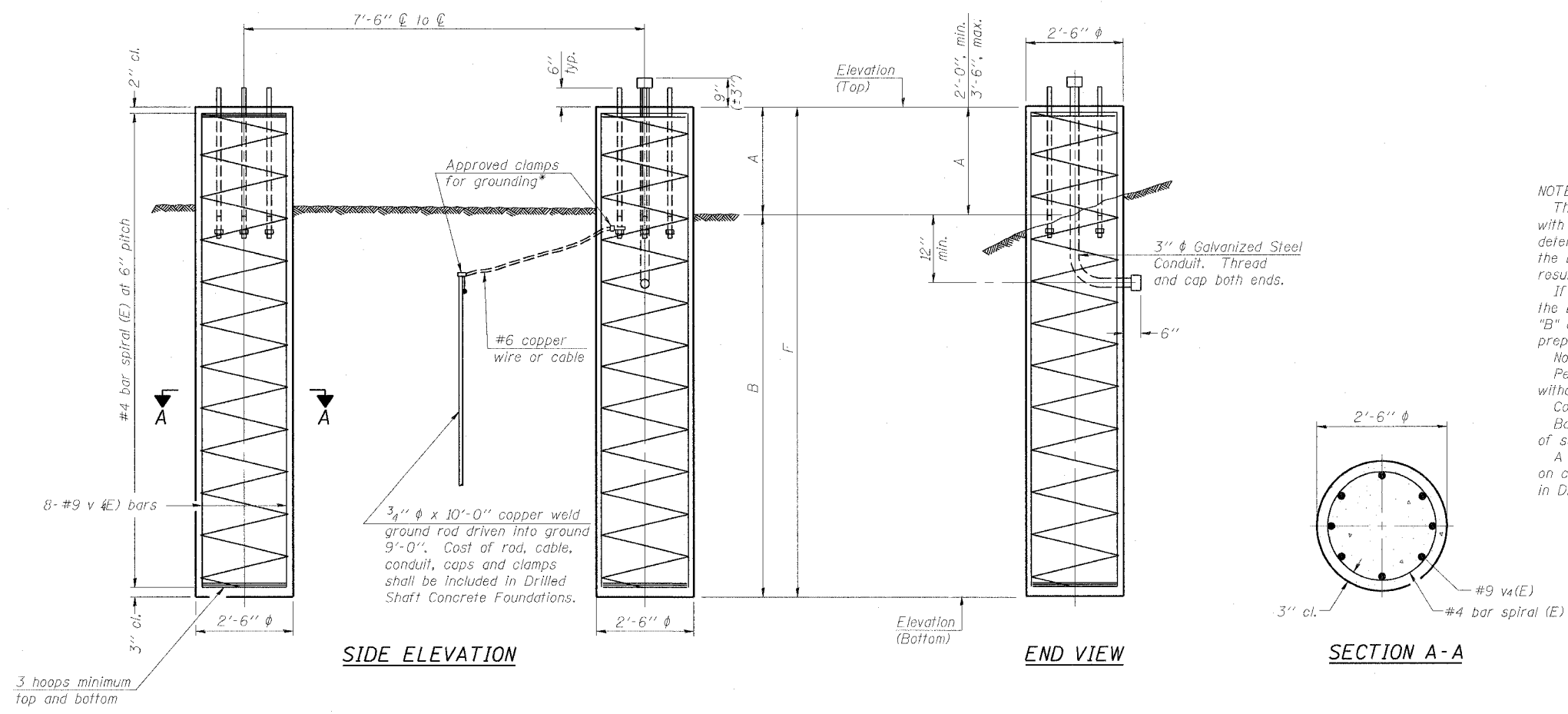
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DISTRICT	SHEET NO.
F.A.I. RTE. 90/94	*	COOK	312	156
FED. RDG. DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		
* 0919,15 & 2021-922 PT.11 R-1				60A62

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

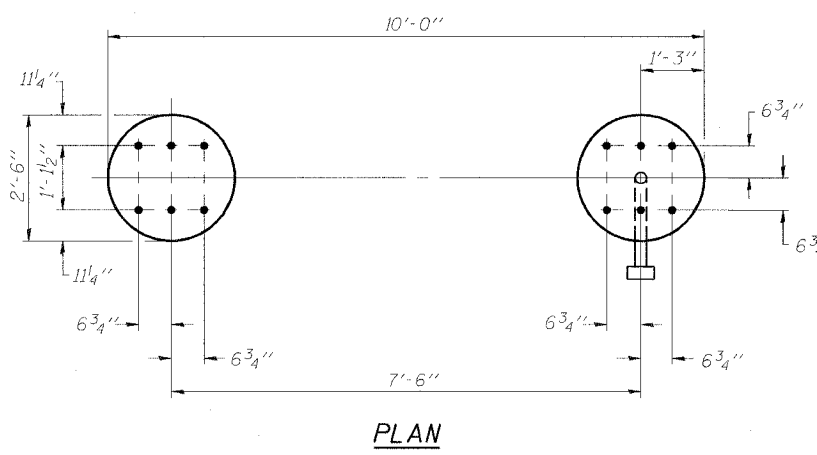
\* Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.



BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	16	#9	F less 5"	
#4 bar spiral (E) - see Side Elevation				

NOTES:  
The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations of the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.  
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.  
No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.  
Concrete shall be placed monolithically, without construction joints.  
Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.  
A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.



Structure Number	Station	Left Foundation					Right Foundation					Class SI Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top	Elevation Bottom	A	B	F	
ISO161094L058.8	4421+30	---	---	---	---	---	3.54'	-13.46'	2.0'	15.0'	17.0'	6.2

DESIGNED - JSS	20
CHECKED - RDP	EXAMINED
DRAWN - JSS	PASSED
CHECKED - RDP	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

DETAILS FOR 8" φ SUPPORT FRAME  
TYPE I-A TRUSS

OVERHEAD SIGN STRUCTURES  
DRILLED SHAFT DETAILS

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

OSS-29

OS4-F2 1-7-05

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

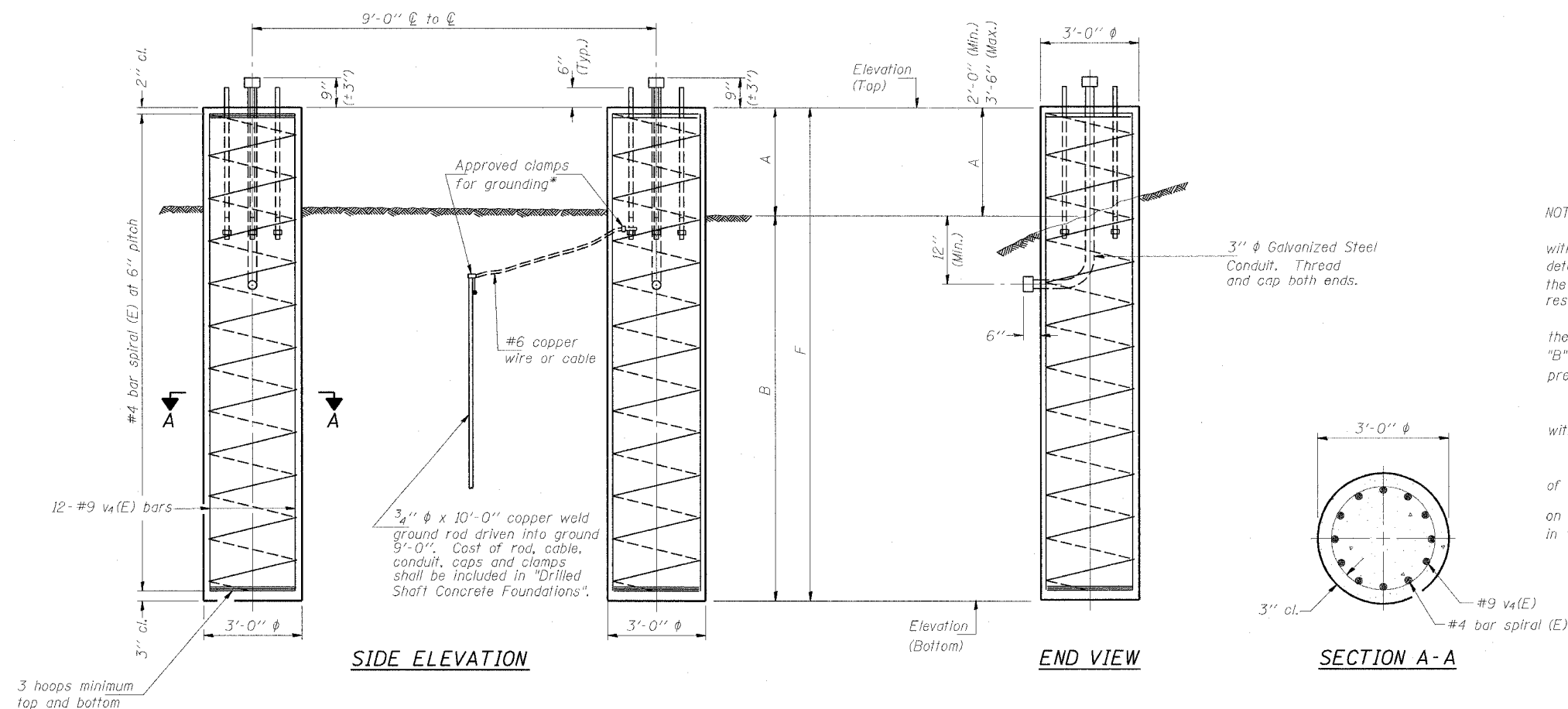
ROUTE NO.	SECTION	COUNTY	DISTRICT	SHEET
F.A.I. R.I.E. 90/94		COOK	312	157
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
01919.15 & 2021-922 PT. II R-1				60A62

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

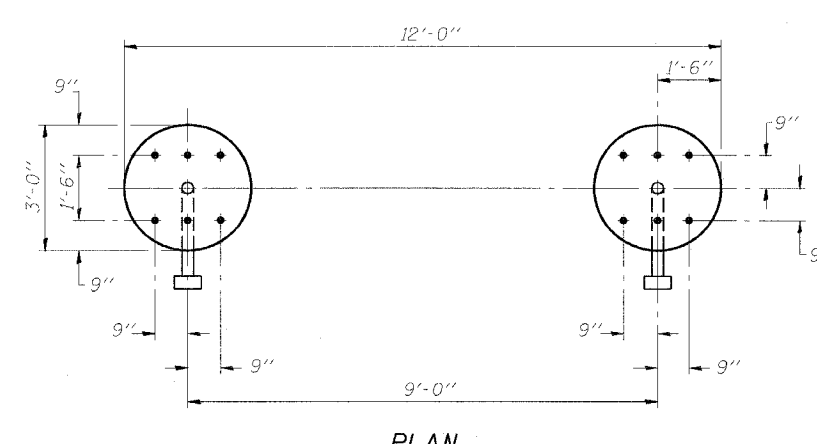
\*Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	---
#4 bar spiral (E) - see "SIDE ELEVATION"				



NOTES:  
The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength ( $Q_u$ ) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.  
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.  
No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.  
Concrete shall be placed monolithically, without construction joints.  
Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.  
A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".



Structure Number	Station	Left Foundation			Right Foundation			Class SI Concrete (Cu. Yds.)				
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top		Elevation Bottom	A	B	F
ISO161094L058.1	4455+50.00	----	----	----	----	----	5.56'	-14.44'	2.00'	18.00'	20.00'	10.5

DESIGNED - JSS	EXAMINED - 20	NUMBER	REVISION	DATE
CHECKED - RDP	PASSED - ENGINEER OF STRUCTURAL SERVICES			
DRAWN - JSS				
CHECKED - RDP				

DETAILS FOR 12"  $\phi$  SUPPORT FRAME  
TYPE III-A TRUSS

OSS-30

OVERHEAD SIGN STRUCTURES  
DRILLED SHAFT DETAILS

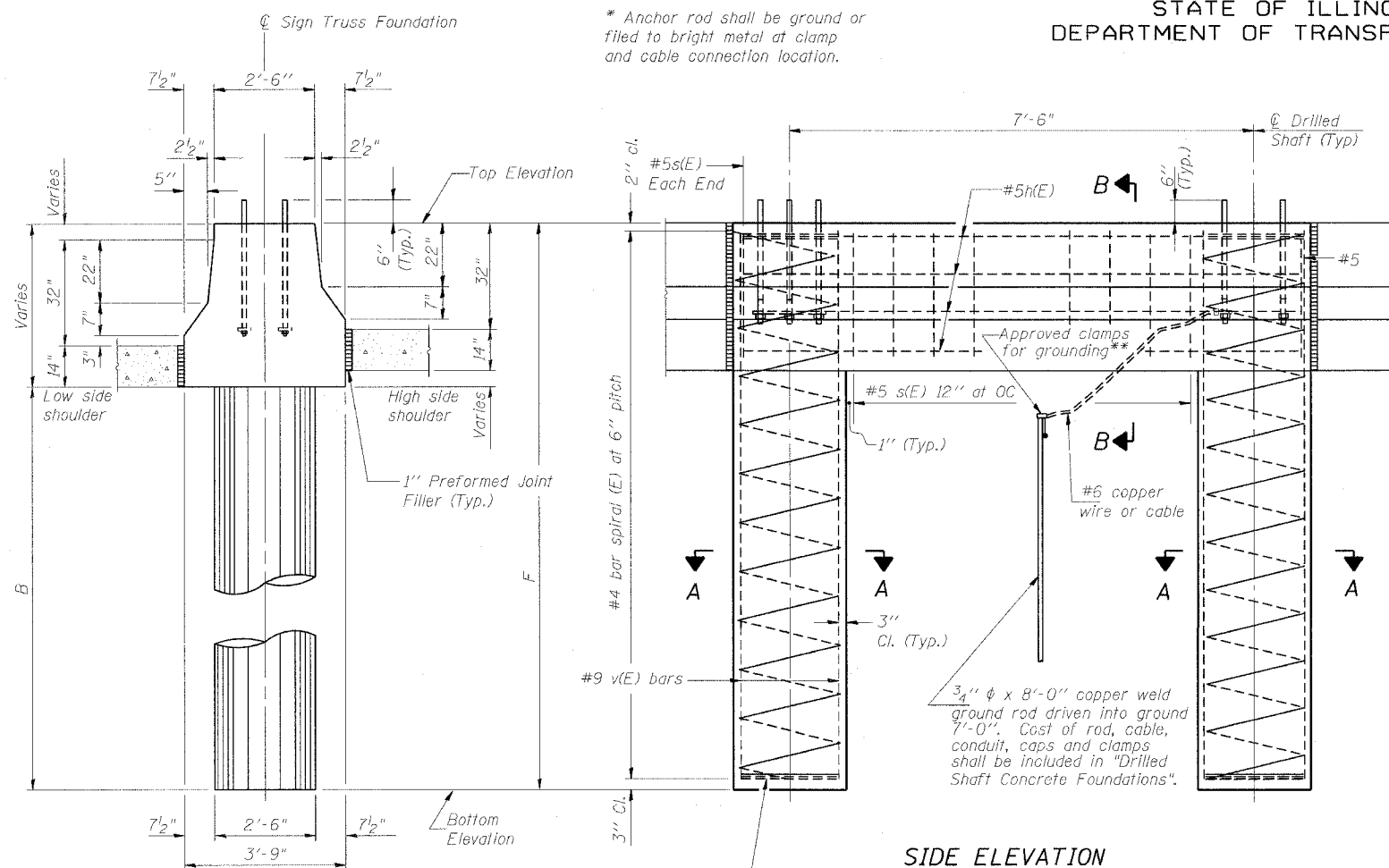
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 90/94		COOK	312	158
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

• (1919.15 & 2021-922 PT.) R-1 60A62



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

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints. Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

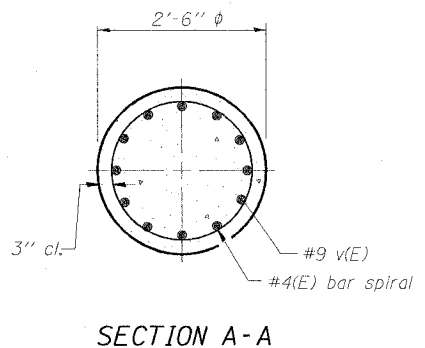
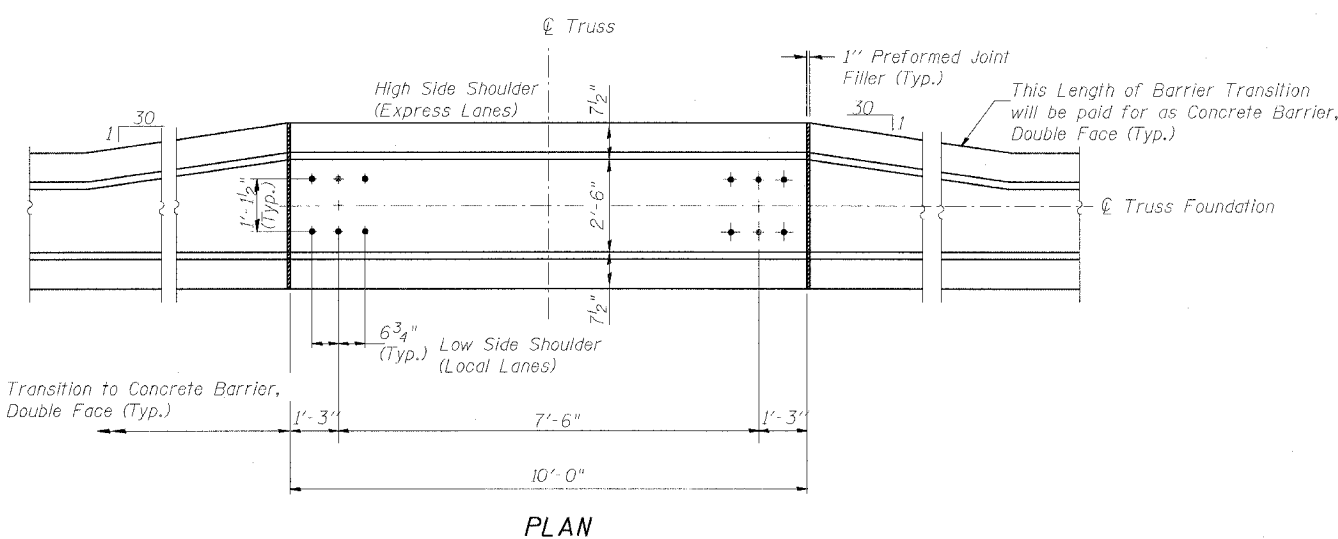
Face of median support foundation shall match dimensions of permanent barrier wall F shape.

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
h(E)	10	#5	9'-8"	—
s(E)	9	#5	Varies	□
v(E)	24	#9	F less 0'-5"	—

#4(E) bar spiral - see Side Elevation

Structure Number	Station	Left Foundation				Right Foundation				Class SI Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F	
ISO161094L058.8	4421+30.00	4.29'	-9.82'	10.0'	14.11'	----	----	----	----	8.5



DESIGNED - JSS	20
CHECKED - RDP	EXAMINED
DRAWN - JSS	PASSED
CHECKED - RDP	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

MODIFIED BY CTE ENGINEERS, INC. FROM OS4-MED

OSS-31

OVERHEAD SIGN STRUCTURES  
MEDIAN SUPPORT FOUNDATION DETAILS

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD  
DOUBLE FACE MEDIAN SUPPORT FOUNDATION

F:\P4\468\DRAWING\CONTR. 18 & 19\SPACING\18ASIGNING\18ASIGNING.DWG

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET TOTAL
F.A.I. RTE. 90/94	*	COOK	312	159
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

(1919.15 & 2021-922 PT.1) R-1  
60A62

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

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength ( $Q_u$ ) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

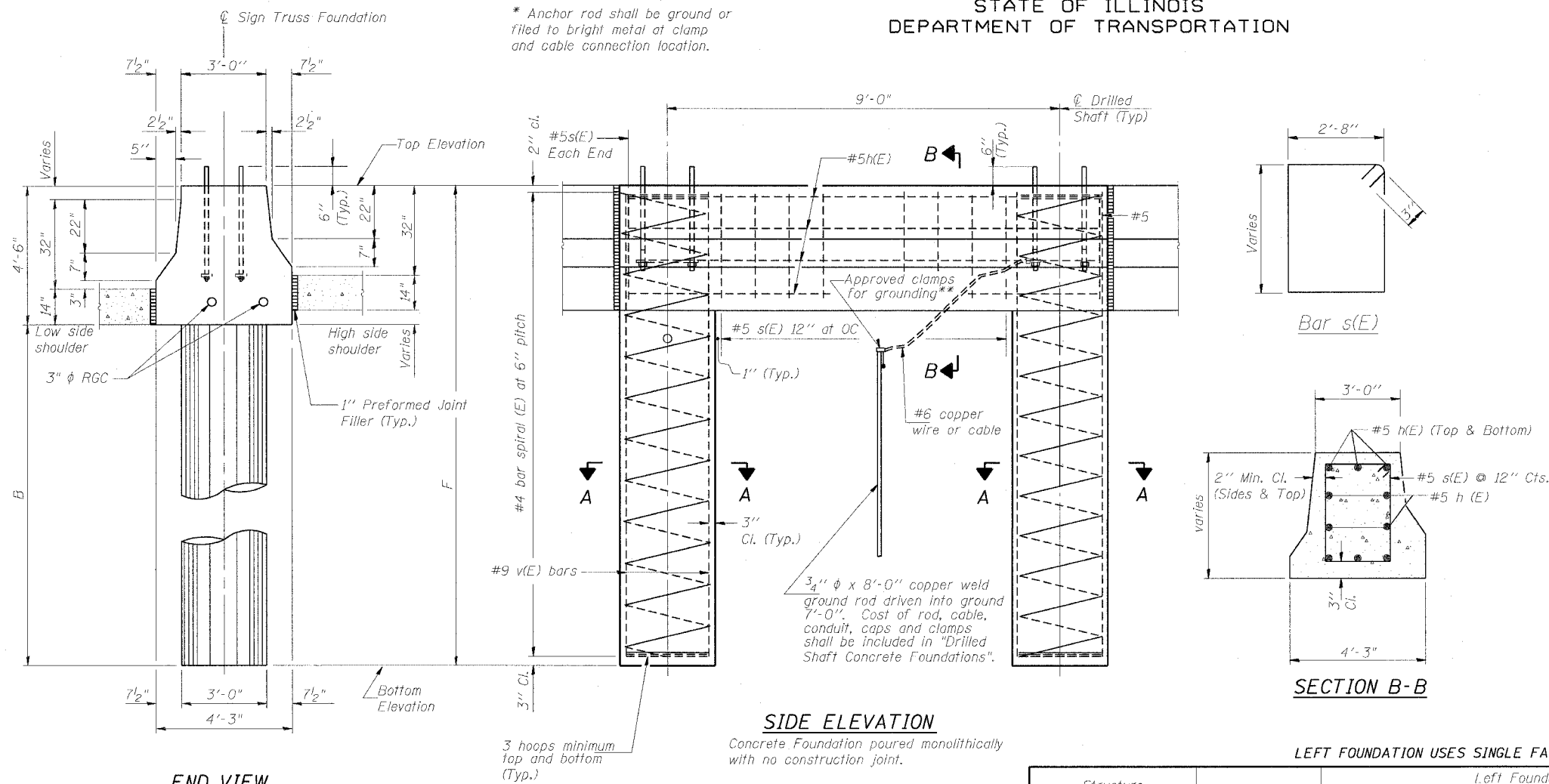
If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints. Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

Face of median support foundation shall match dimensions of permanent barrier wall F shape.

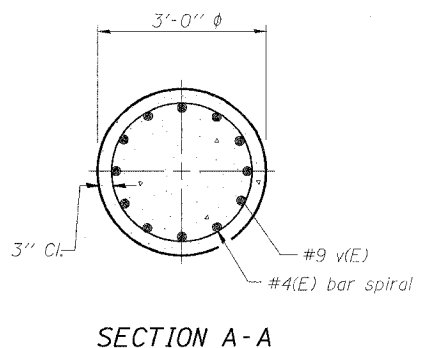
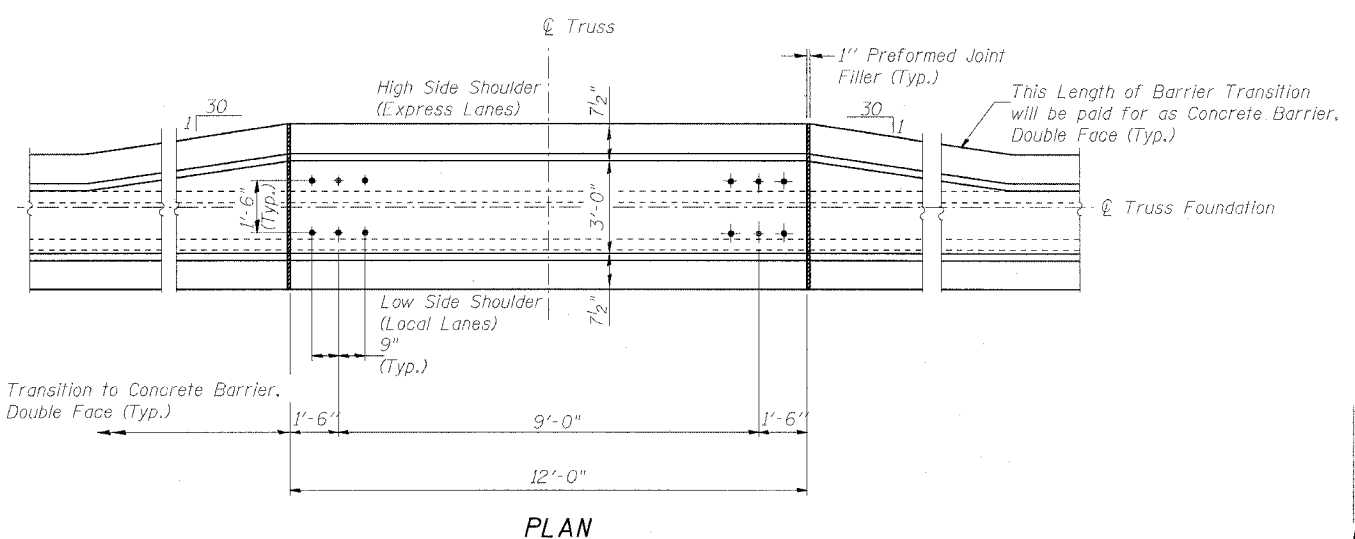


BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
h(E)	10	#5	11'-8"	—
s(E)	9	#5	Varies	□
v(E)	24	#9	F less 0'-5"	—
#4(E) bar spiral - see Side Elevation				

LEFT FOUNDATION USES SINGLE FACE MEDIAN SUPPORT FOUNDATION

Structure Number	Station	Left Foundation				Right Foundation				Class SI Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F	
ISO161094L058.1	4455+50.00	3.00'	-19.10'	18.0'	22.10'	----	----	----	----	16.2



DESIGNED - JSS	20
CHECKED - RDP	EXAMINED
DRAWN - JSS	PASSED
CHECKED - RDP	

ENGINEER OF STRUCTURAL SERVICES  
ENGINEER OF BRIDGES AND STRUCTURES

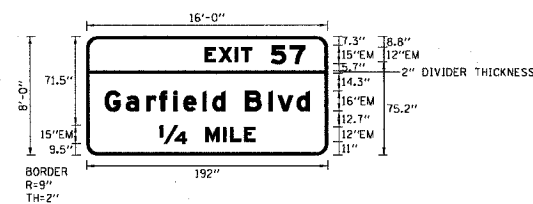
MODIFIED BY CTE ENGINEERS, INC. FROM OS4-MED

OSS-32

OVERHEAD SIGN STRUCTURES  
MEDIAN SUPPORT FOUNDATION DETAILS

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD  
DOUBLE FACE MEDIAN SUPPORT FOUNDATION

SIGN DETAIL



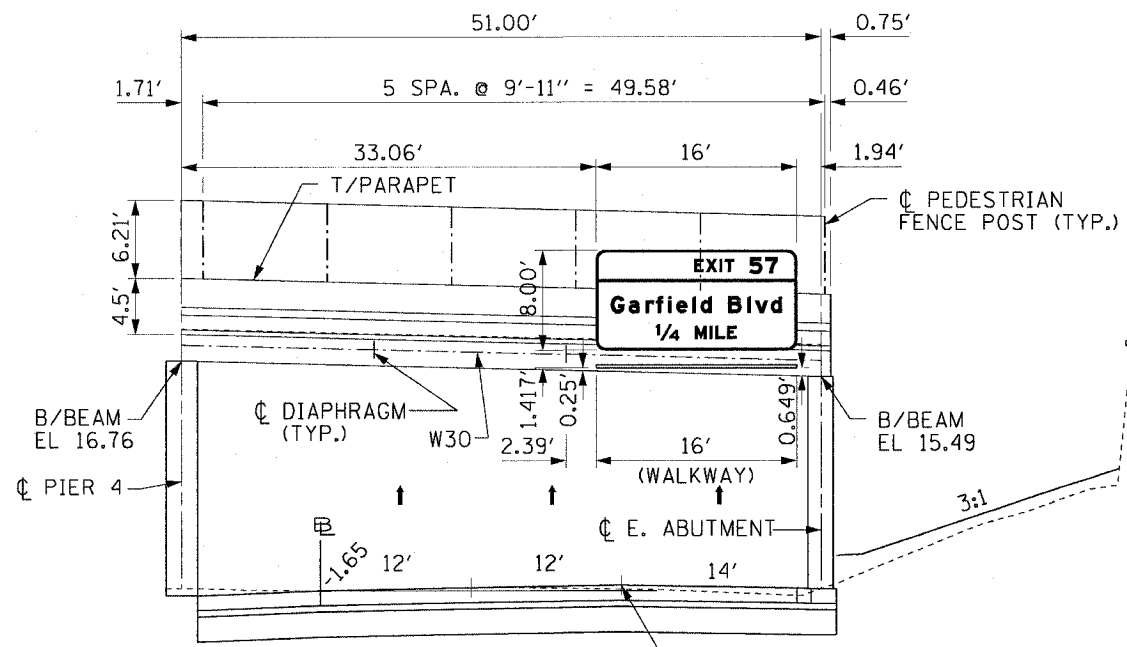
SIGN NUMBER	1B0161094L058.2
WIDTH x HEIGHT	16'-0" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	OVERHEAD
BACKGROUND	TYPE: REFLECTIVE
LEGEND/BORDER	COLOR: GREEN
	TYPE: REFLECTIVE
	COLOR: WHITE

SYMBOL	X	Y	WID	HT

DIMENSIONS ARE IN INCHES.TENTHS LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

LETTER POSITIONS (X)													LENGTH SERIES, SIZE	
E	X	I	T	5	7								79.8	EM12,EM15
94.2	105.5	118.3	123.1	146.9	162									
G	a	r	f	l	e	l	d	B	l	v	d		163.4	EM16/12
14.3	31.3	47.6	57.7	69	77	92.3	100.2	110.4	126.4	144.9	152.4	167.5		
1/4	M	I	L	E									76.6	EM15,EM12
57.7	94.7	108.8	114.2	125.5										

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	160
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
60A62		(1919.15, 2021-922 PT1) & PT2) R-1		



1B0161094L058.2  
MOUNTING DETAIL  
PROPOSED BRIDGE MOUNTED SIGN STRUCTURE  
STA 4448+67.83 N.B. LOCAL I-90/94  
LOOKING NORTH

NOTES:

1. PROPOSED PAVEMENT FOR LOCAL LANES IS SHOWN FOR INFORMATION ONLY, SEE ROADWAYPLANS FOR DETAILS.
2. REFER TO LIGHTING PLANS FOR ORIENTATION AND LOCATION OF THE CONDUIT.

CTE | AECOM

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)
NAME	DATE	
		PERMANENT SIGN PANEL MOUNTING DETAILS PROPOSED BRIDGE MOUNTED SIGN STRUCTURE STA. 4448+67.83
SCALE: NONE		DRAWN BY: JSS
DATE: June 9, 2006		CHECKED BY: RDP

OSS-33

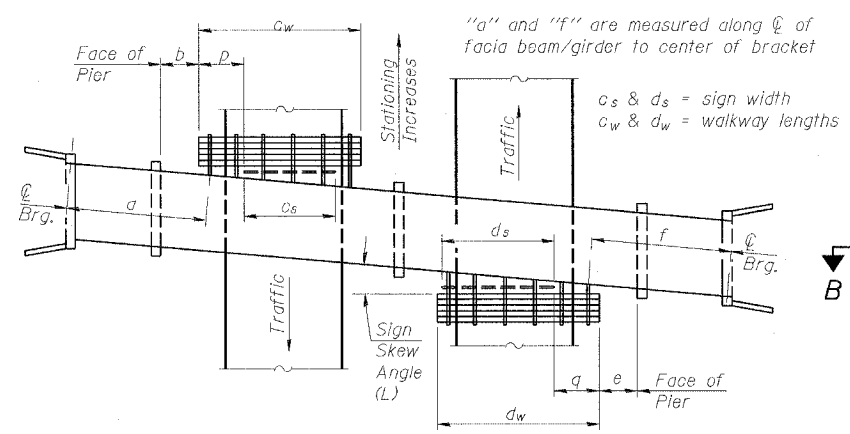
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

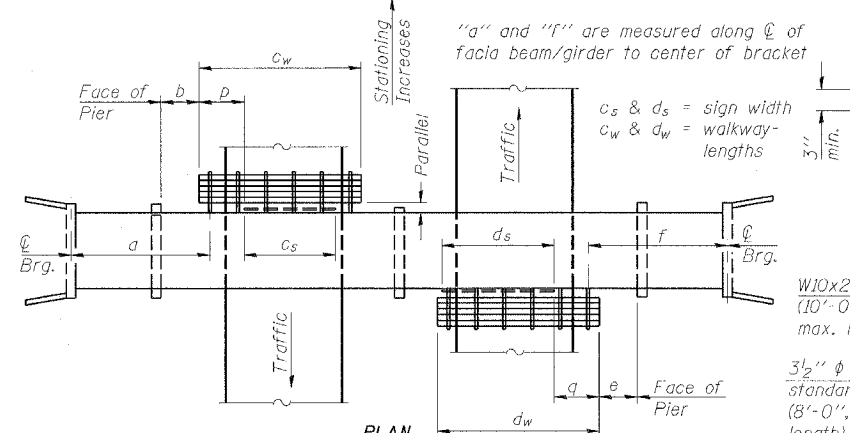
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 90/94		COOK	312	161
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
11919.15 & 2021-922 P.T.11 R-1				60462

GENERAL NOTES

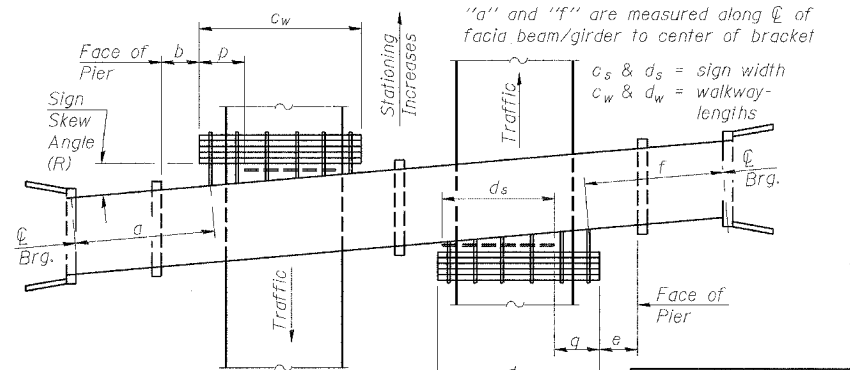
**SPECIFICATIONS:**  
**DESIGN:** AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications") (2)  
**CONSTRUCTION:** Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")  
**LOADING:** 90 M.P.H. WIND VELOCITY  
**WALKWAY LOADING:** Dead load plus 500 lbs. concentrated live load.  
**MINIMUM CLEARANCE:** 3" greater than bridge members at all locations. (All Obstructions)  
**WELDING:** All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 Structural Welding Code (Steel) and the Standard Specifications.  
**MATERIALS:** All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.  
 All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 (M183, M223 Gr. 50).  
**HIGH STRENGTH BOLTS:** All bolts, washers, nuts and locknuts shall satisfy the requirements of ASTM designation A307 unless noted as "H.S." which shall require AASHTO M164 (A325), ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise specified.  
**GALVANIZING:** All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.  
**ANCHOR RODS:** All-threaded rod conforming to ASTM A307, 3/4" φ x 12" long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 9".



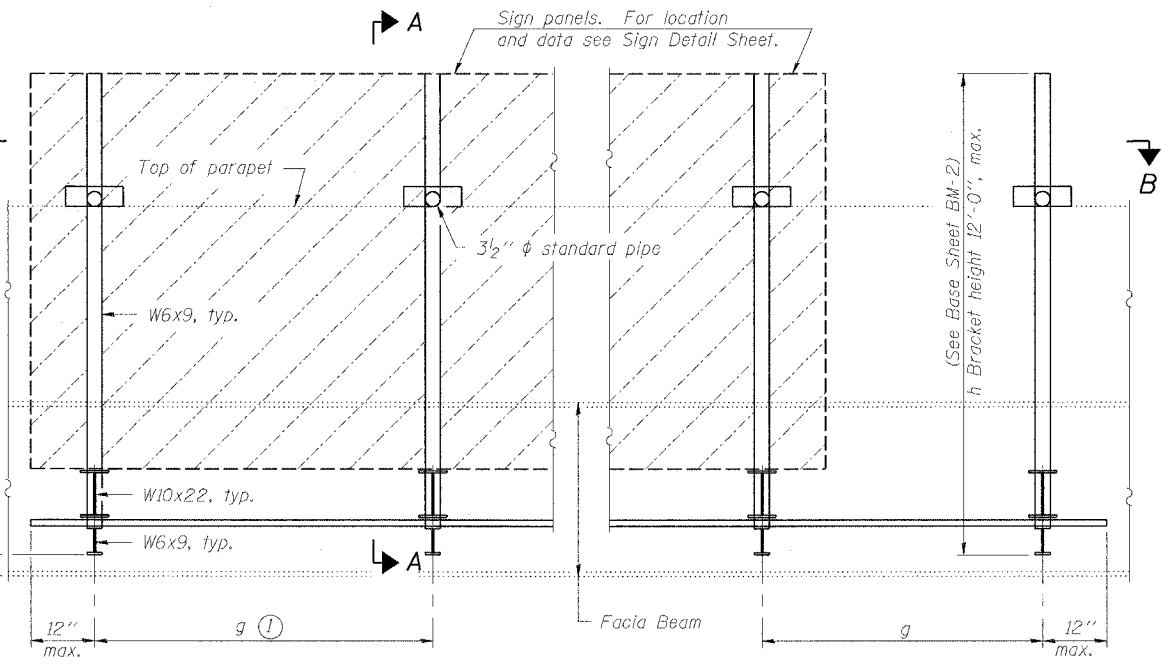
PLAN  
(Left Sign Skew > 15°)  
**WALKWAY AND HANDRAIL SKETCH**  
(Road plan beneath structure varies.)



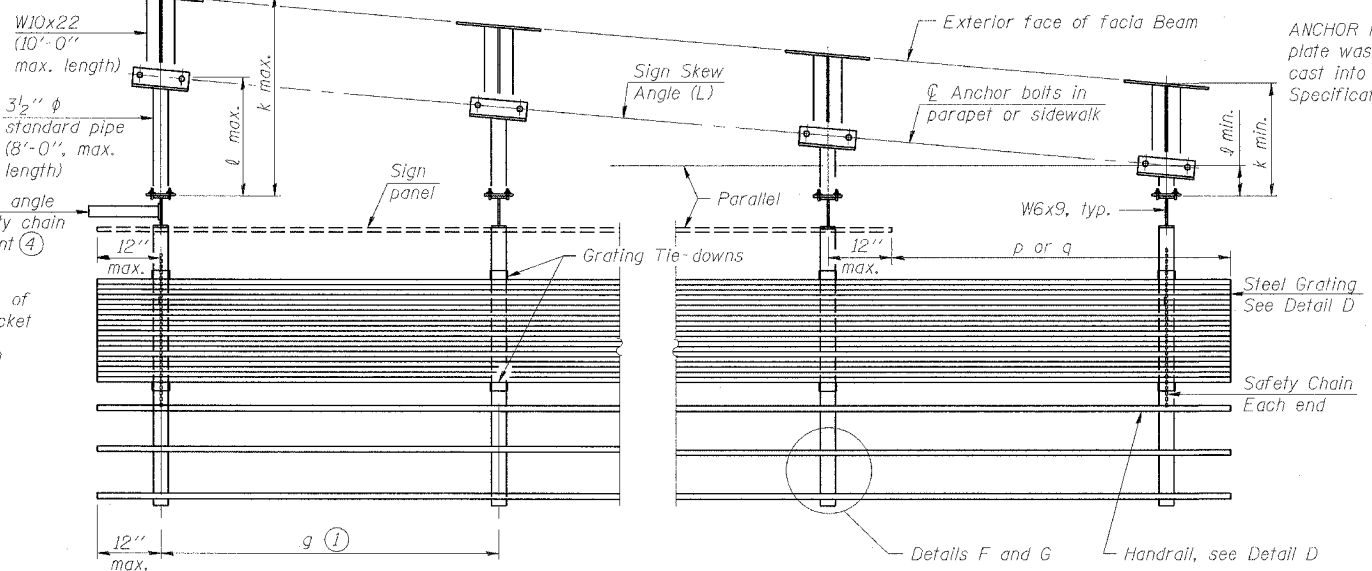
PLAN  
(For Sign Skew ≤ 15°, all brackets constant)  
**WALKWAY AND HANDRAIL SKETCH**  
(Road plan beneath structure varies.)



PLAN  
(Right Sign Skew > 15°)  
**WALKWAY AND HANDRAIL SKETCH**  
(Road plan beneath structure varies.)



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



SECTION B-B  
(Shown: Left Sign Skew > 15°)

- ① Bracket spacing  $g \leq 6'-0"$ , max. Spacing shall be uniform if possible but may vary  $\pm 6"$  to miss existing obstruction (rail post, light poles, web stiffeners, splice plates, etc.). Adjust bracket lengths accordingly on skewed structures.
- ② Any design modifications shall be based on the current version of applicable specifications and submitted for the Engineer's approval.
- ③ Unit price includes grating, handrail, brackets, supports, anchor bolts, fasteners, fabrication, delivery, erection, field drilling and other necessary items. Limits of payment are based on grating length ( $c_w$ ,  $d_w$ ) unless otherwise specified. For Safety Chain Details and Details D, F and G, see Base Sheet BM-4.
- ④ If walkway bracket of safety chain location is behind sign, add angle to bracket. See detail on Base Sheet BM-4.

NUMBER	REVISION	DATE

TOTAL BILL OF MATERIAL OSS-34

③ OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	Foot	16.0'
--	------	-------

BRIDGE MOUNT SIGN STRUCTURES  
GENERAL PLAN AND ELEVATION

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

DESIGNED - JSS	20
CHECKED - RDP	EXAMINED
DRAWN - JSS	PASSED
CHECKED - RDP	ENGINEER OF BRIDGES AND STRUCTURES

BM-1 1-7-05

Structure Number	Sign Skew Angle (L) or (R)	Bridge Station	Bridge Structure Number	Contract Route Designation	a	b	c <sub>s</sub>	c <sub>w</sub>	d <sub>s</sub>	d <sub>w</sub>	e	f	g	No. of Brackets (Total)	p	q	Total Grating/Hndrl. Lengths (c <sub>w</sub> + d <sub>w</sub> )
1B0161094L058.2	0°	100+73.73	016-1150	FAI-94					16.0'	16.0'	0.90'	2.44'	5.0'	4			16.0'

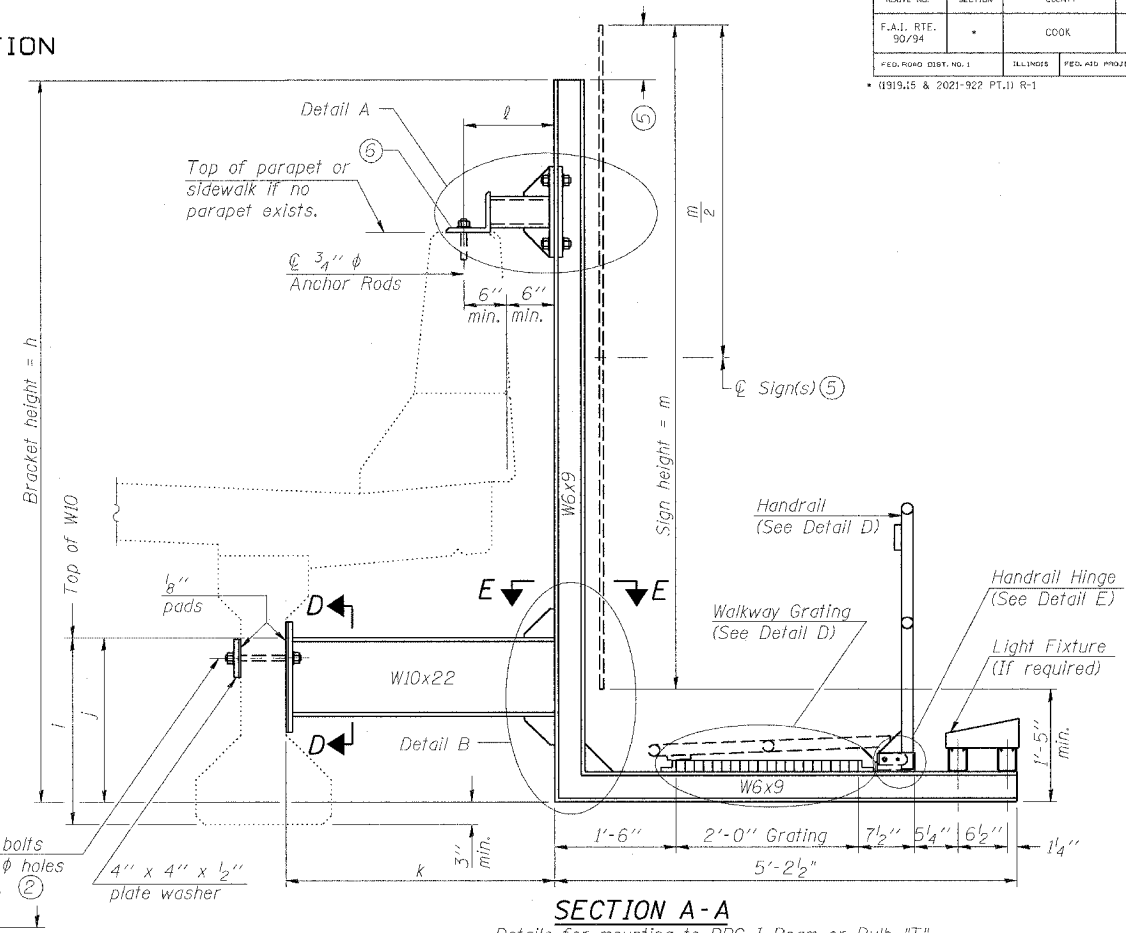
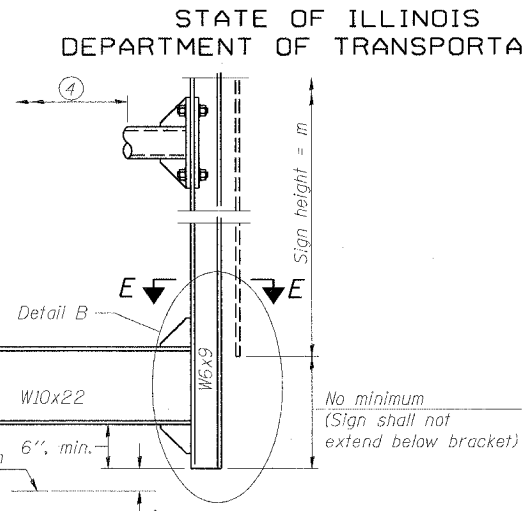
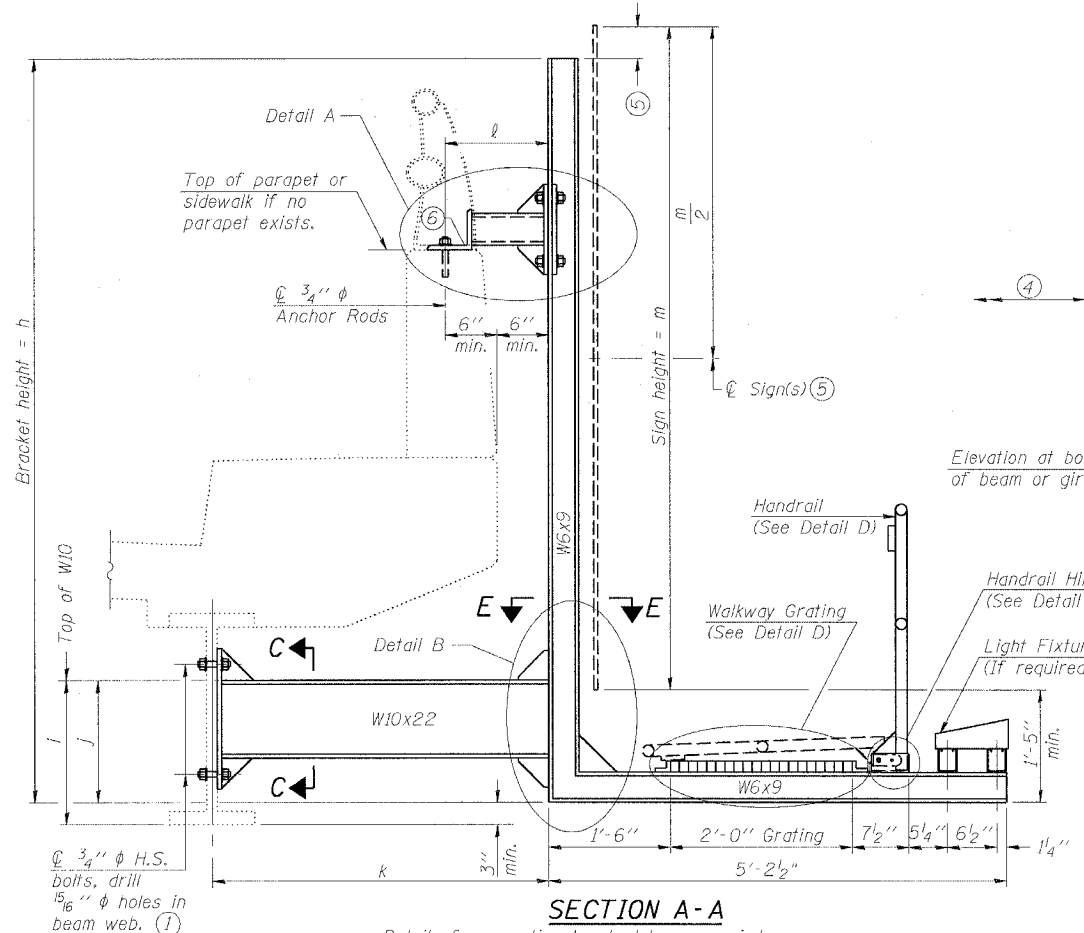
Dimensions a, b, e, f & g may vary as approved by the Engineer, see ①.  
When  $c_w < c_s$  and/or  $d_w < d_s$ , use alternate brackets without walkway supports where applicable, see ③.

6/27/2006 11:55:38 AM

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET
F.A.I. RTE. 90/94		COOK	312	152
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

(1919,15 & 2021-927 PT.1) R-1 60A62



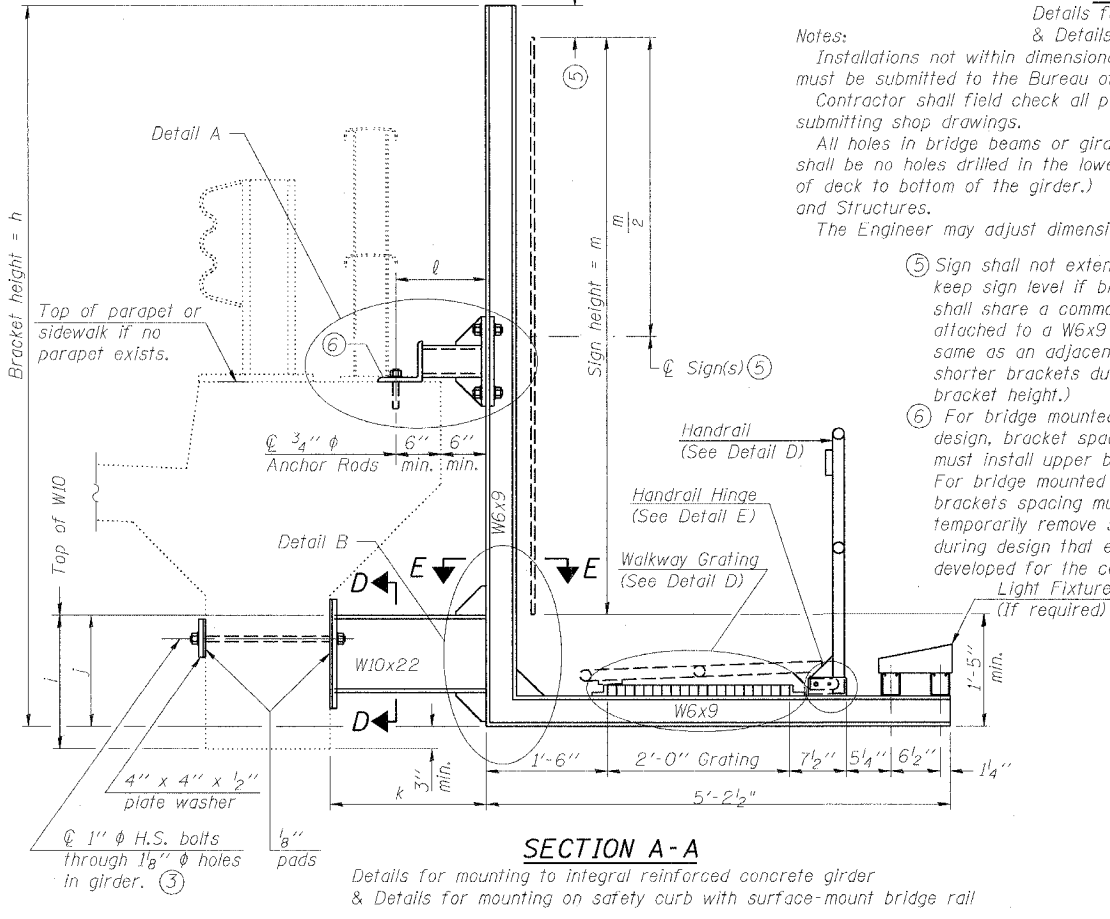
Structure Number	Station	h (12'-0" max.)	i	j	k max. (10'-0" max.)	l max. (8'-0" max.)	m (11'-0" max.)
1B0161094L058.2	4448+67.83	8'-11"	1'-6"	1'-3"	3'-9"	1'-0"	8'-0"

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

- Holes in new steel members may be drilled in the fabrication shop or in the field. Field drill existing members.
- For new PPC I beams, holes shall be formed during casting. For existing PPC I beams, prestressing strand locations shall be determined and spaced to miss strands by 6", min. Minimize spalling during field drilling of existing beams.
- For new construction, form holes. For existing RC beams, locate primary reinforcement and space holes to miss by 6", min. Minimize spalling and concrete fracturing/damage during field drilling of existing concrete. Spalls over 1/4" deep or beyond the coverage of the 4x4 plate washer shall be repaired with epoxy mortar before installing washer.

DESIGNED - JSS	20
CHECKED - RDP	ENGINEER OF STRUCTURAL SERVICES
DRAWN - JSS	PASSED
CHECKED - RDP	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE



Notes:  
Installations not within dimensional limits shown require special analysis for all components and must be submitted to the Bureau of Bridges and Structures for approval.  
Contractor shall field check all pertinent existing bridge dimensions shown on plans before submitting shop drawings.  
All holes in bridge beams or girders should be located in the middle half of the member. There shall be no holes drilled in the lower quarter of the member's depth. (For R.C. girder, depth = bottom of deck to bottom of the girder.) Proposed exceptions must be approved by the Bureau of Bridges and Structures.  
The Engineer may adjust dimension "i" to meet the above condition and to keep the sign level.

- Sign shall not extend more than 6" above top of bracket, and this dimension may vary to keep sign level if bridge is on grade or vertical curve. Multiple signs of various heights shall share a common horizontal centerline and use equal bracket heights. If no sign is attached to a W6x9 vertical bracket only supporting walkway, dimension h shall be the same as an adjacent bracket with a sign attached, unless Engineer specifically directs shorter brackets due to locational restraints on future uses. (See Detail A for minimum bracket height.)
- For bridge mounted sign structures installed on new bridges with railing, during design, bracket spacing must be coordinated with railing post spacing and the Contractor must install upper brackets prior to railing installation. For bridge mounted sign structures installed on existing bridges with railing, during design, brackets spacing must be coordinated with railing post spacing and the Contractor must temporarily remove sections of railing to facilitate upper bracket installation. If it is determined during design that existing railings can't be removed, alternate upper connection details must be developed for the contract plans and approved by the Bureau of Bridges and Structures.

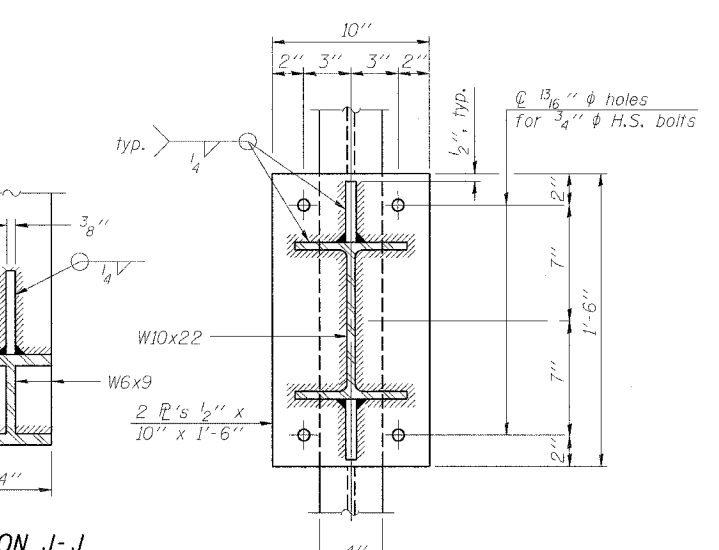
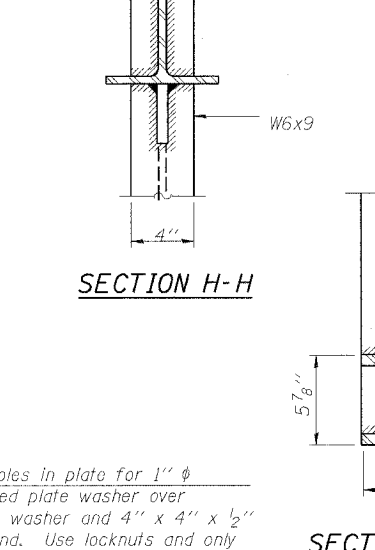
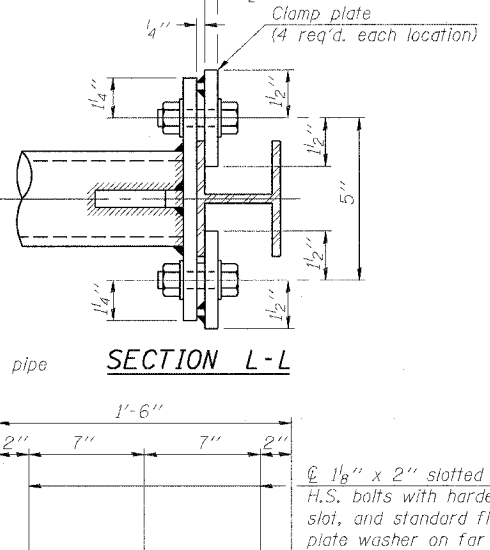
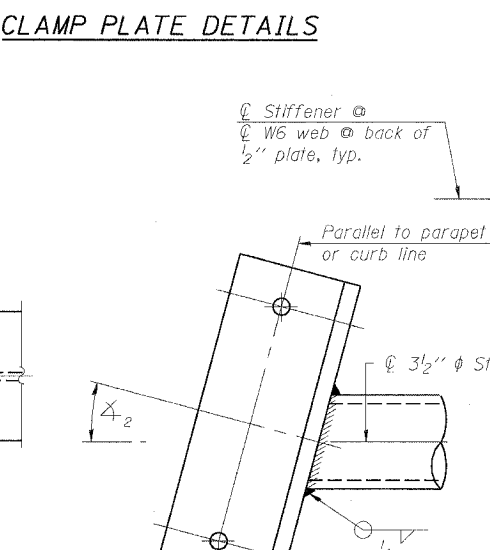
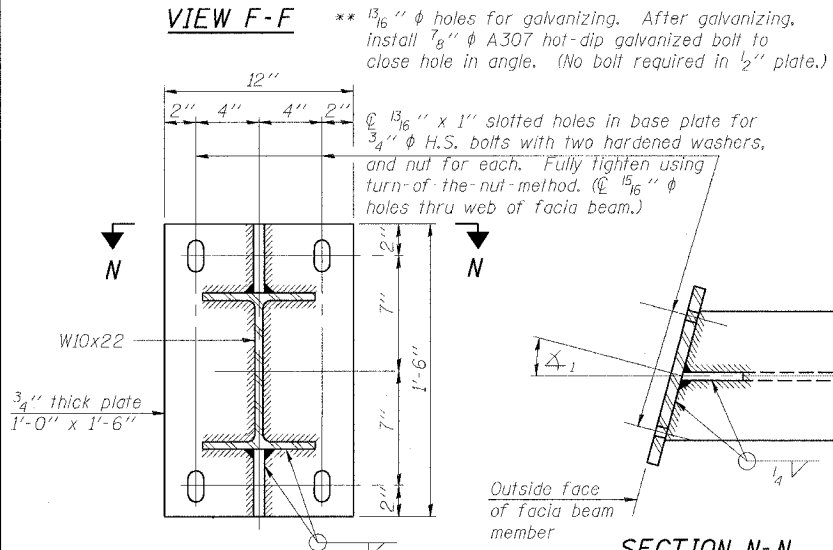
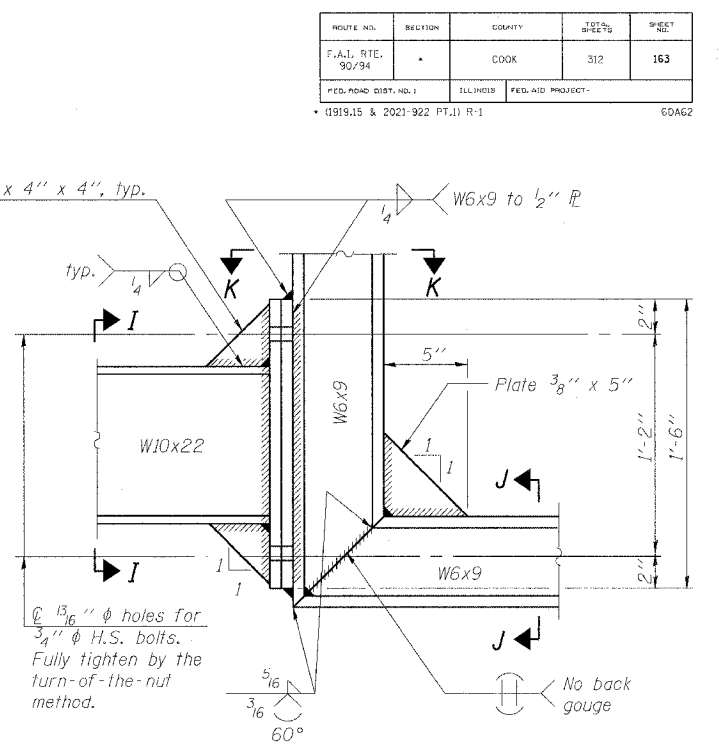
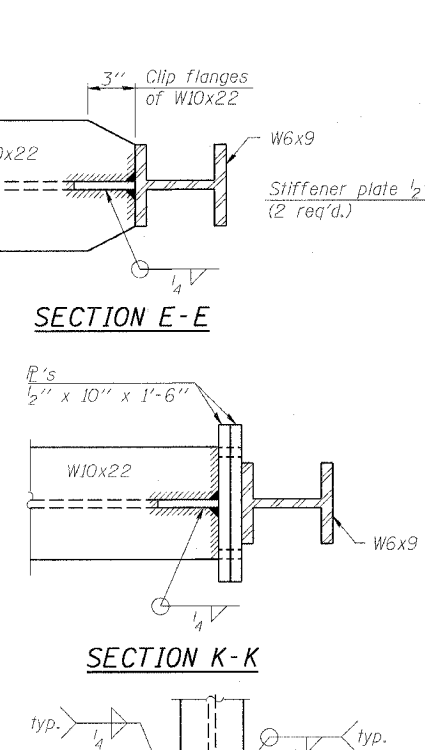
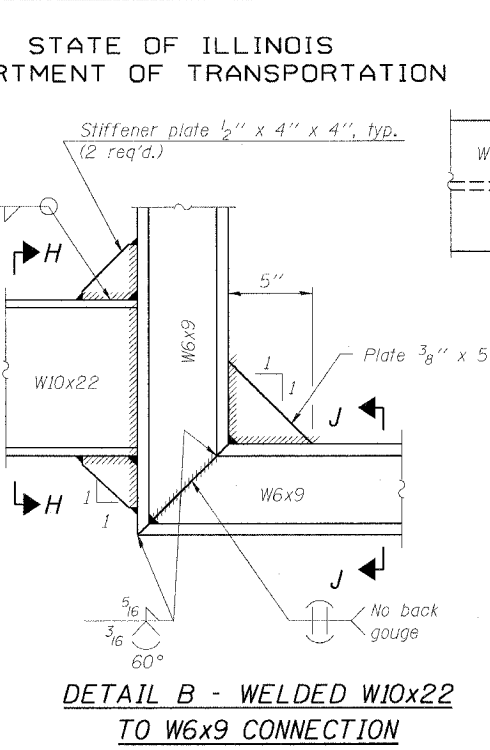
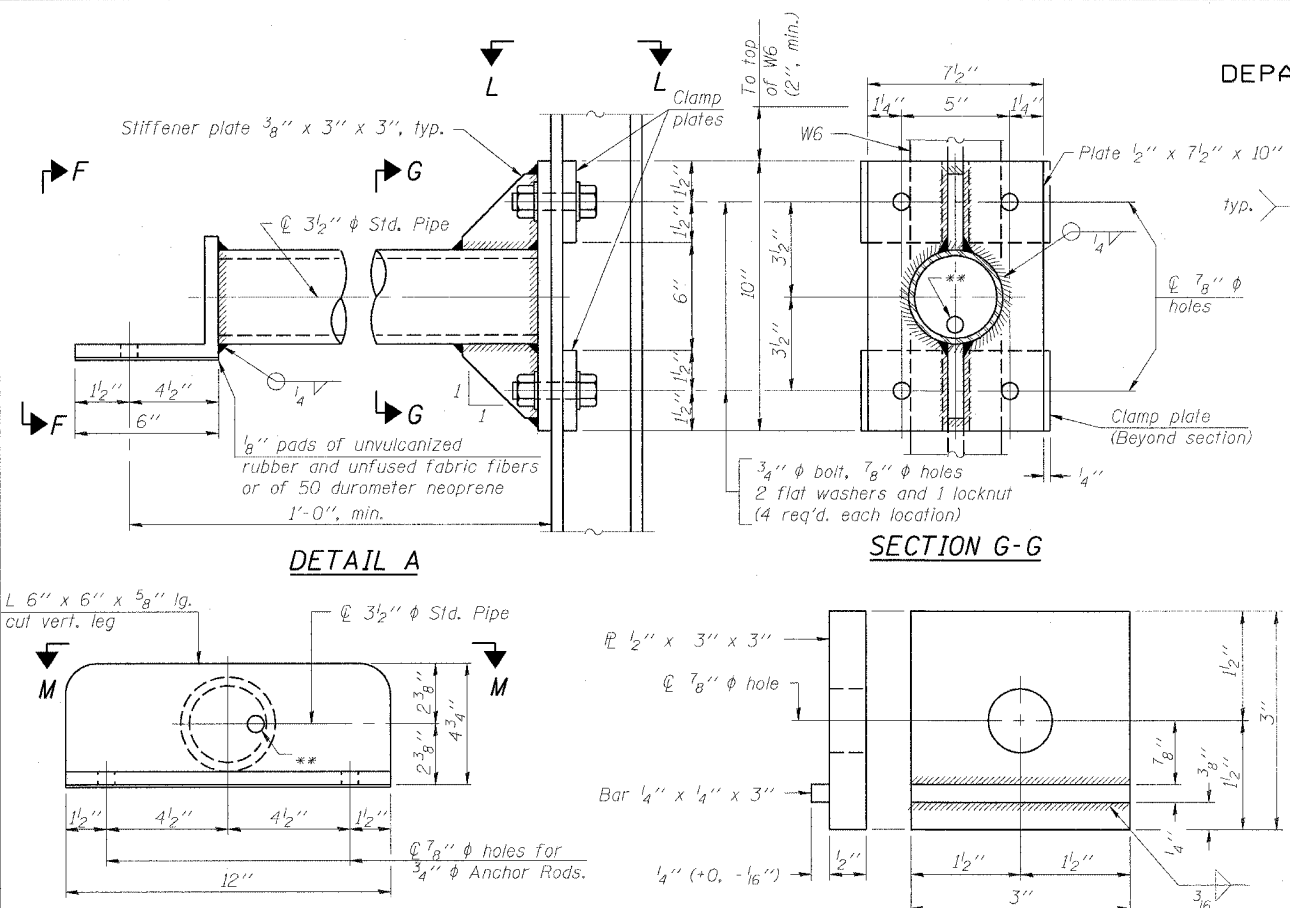
BRIDGE MOUNT SIGN STRUCTURES  
WALKWAY AND CONNECTION DETAILS

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

6/27/2006 11:49:49 AM

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	OF SET
F.A.I. RTE. 90/94		COOK	312	163
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		
* (9/19/15 & 2021-922 P.T.) R-1				



DESIGNED	-	JSS
CHECKED	-	RDP
DRAWN	-	JSS
CHECKED	-	RDP

20	
EXAMINED	ENGINEER OF STRUCTURAL SERVICES
PASSED	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

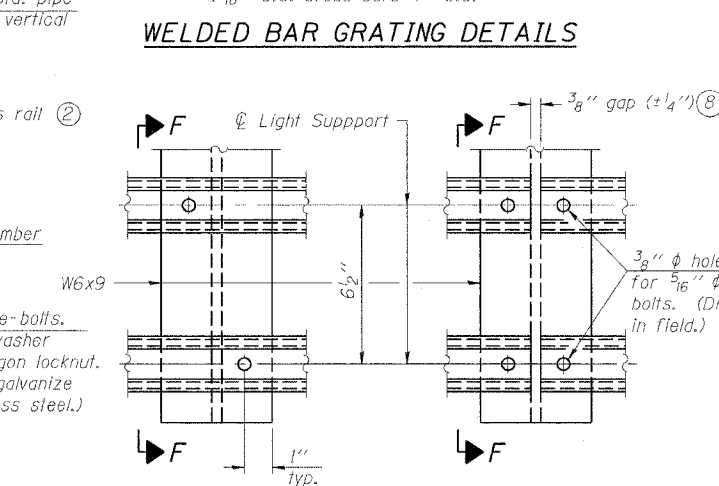
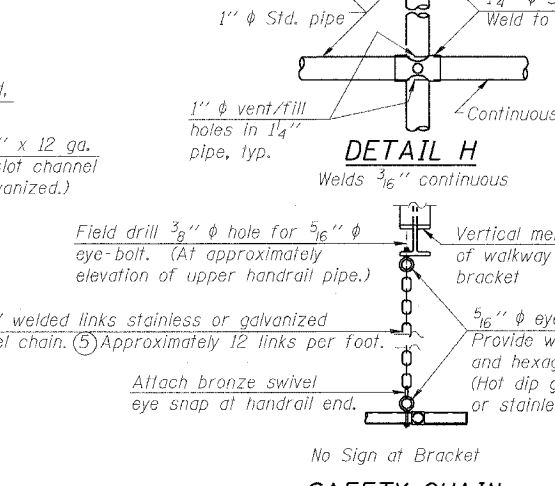
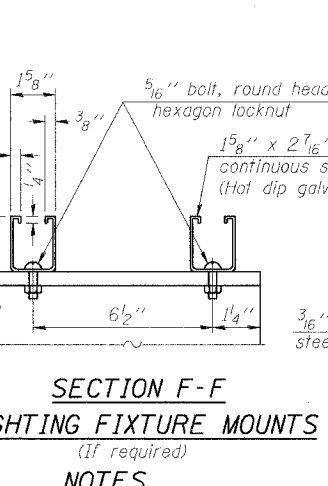
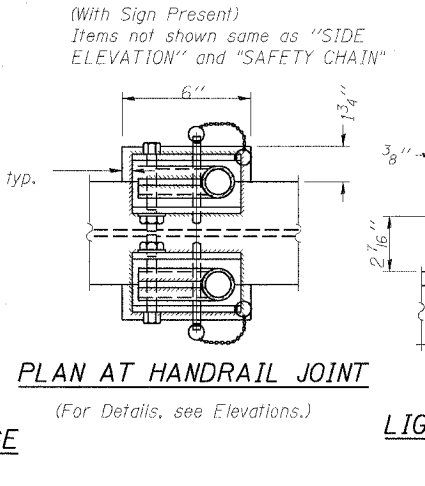
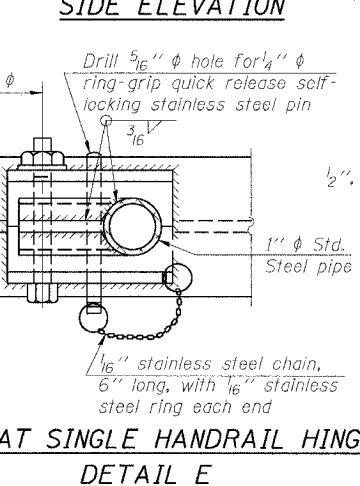
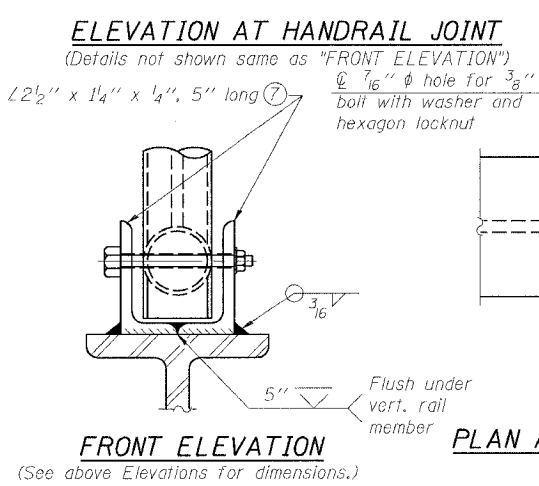
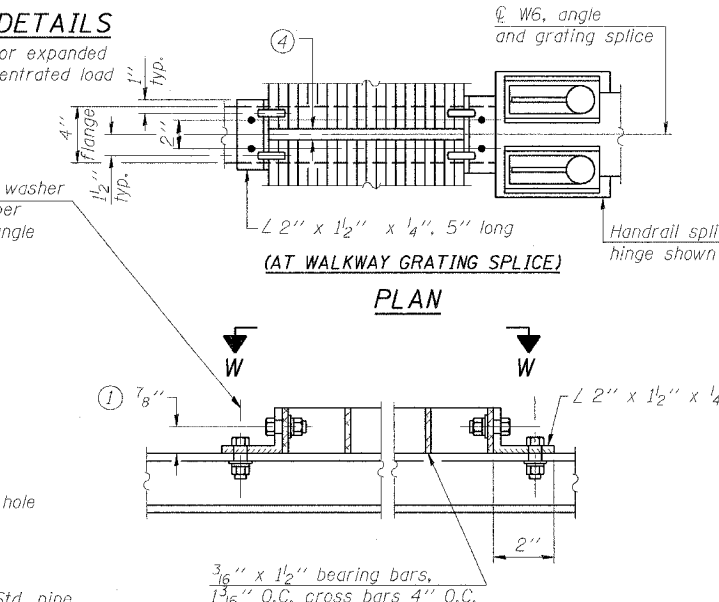
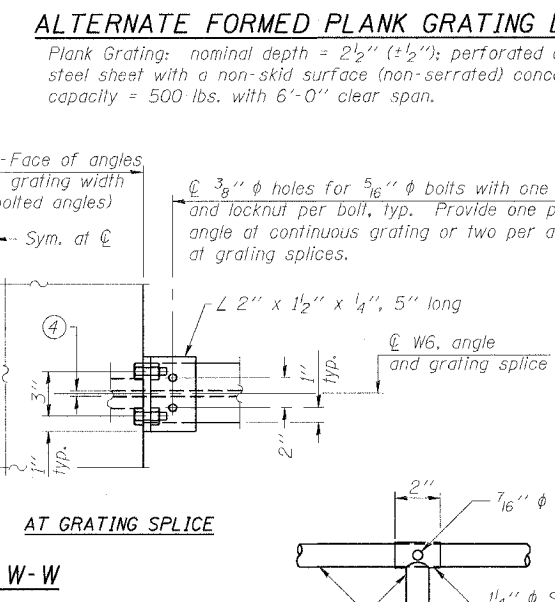
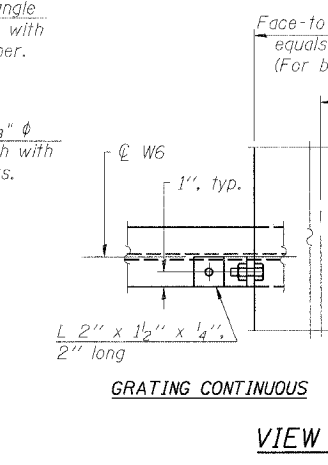
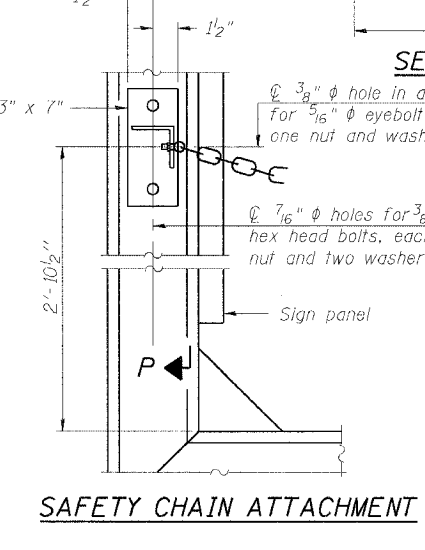
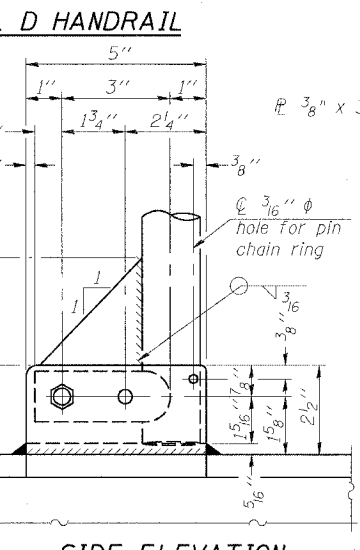
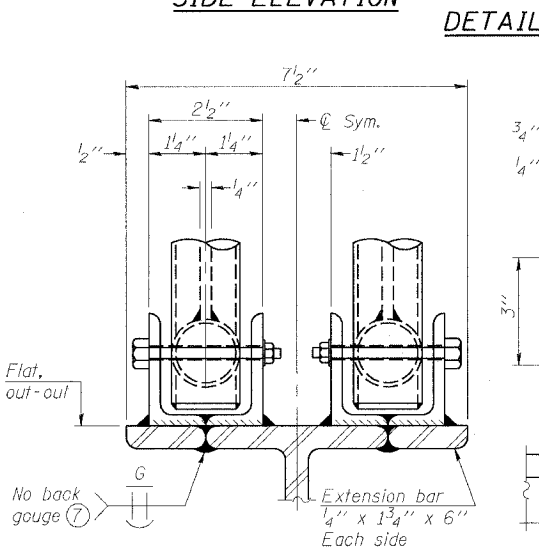
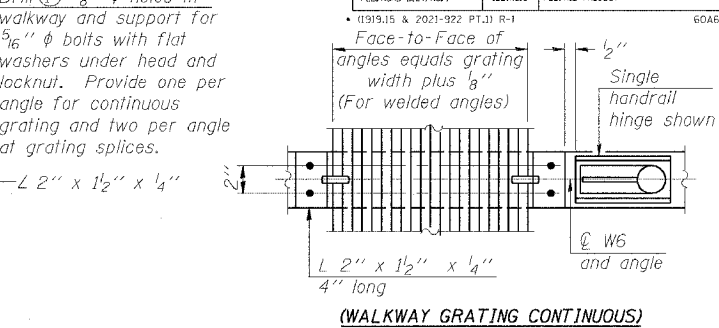
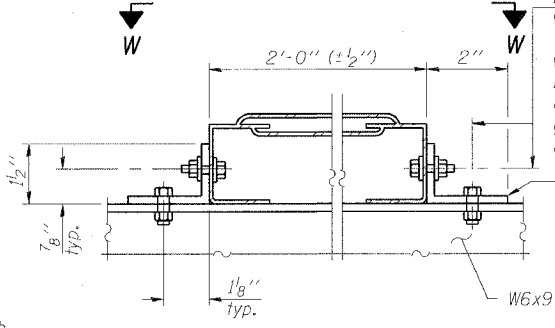
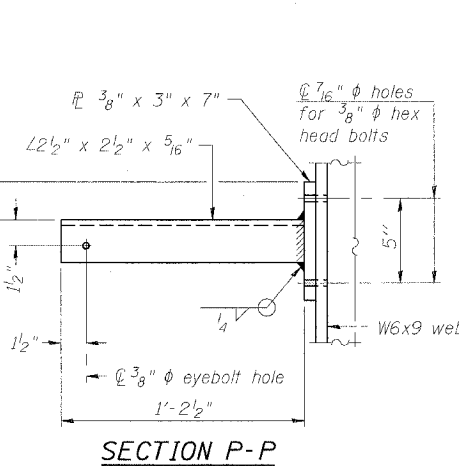
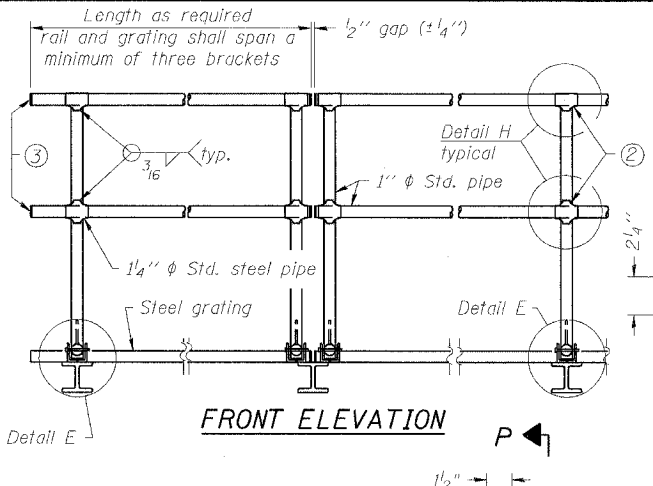
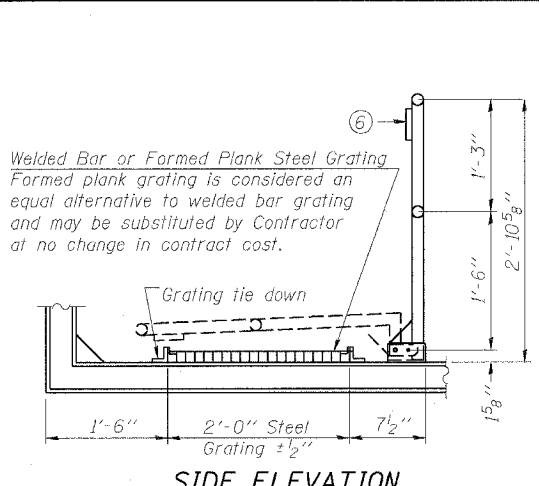
BRIDGE MOUNT SIGN STRUCTURES  
CONNECTION DETAILS

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

8/27/2006 11:29:40 AM  
 P:\PROJECTS\CIVIL\BRIDGE\CONTR 18 & 19\SIGN\CONTR 18\SIGNING\SSR\NOV06\SSR06A.dgn

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 90/94		COOK	332	164
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
(1919.15 & 2021-922 PT.3) R-1			60A62	



NUMBER	REVISION	DATE

DESIGNED - JSS	EXAMINED	20
CHECKED - RDP	ENGINEER OF STRUCTURAL SERVICES	
DRAWN - JSS	PASSED	
CHECKED - RDP	ENGINEER OF BRIDGES AND STRUCTURES	

BM-4 1-7-05

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

BRIDGE MOUNT SIGN STRUCTURES  
WALKWAY DETAILS

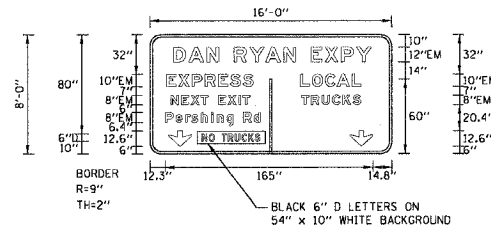
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

OSS-37

6/27/2006 11:20:20 AM



SIGN DETAIL



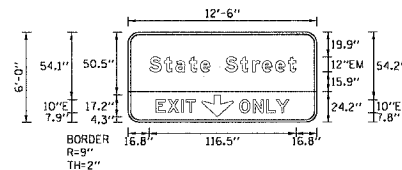
SIGN NUMBER	name
WIDTH x HEIGHT	16'-0" x 8'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	OVERHEAD
BACKGROUND	TYPE: REFLECTIVE
LEGEND/BORDER	COLOR: GREEN
	TYPE: REFLECTIVE
	COLOR: WHITE

SYMBOL	X	Y	WID	HT
ARDOWN	14.9	6	18.3	12.6
ARDOWN	158.9	6	18.3	12.6

DIMENSIONS ARE IN INCHES, TENTHS LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

LETTER POSITIONS (X)											LENGTH SERIES, SIZE			
D	A	N	R	Y	A	N	E	X	P	Y			157.2	EM12
18.8	30.9	45.4	54.9	66.9	79	91.8	106.3	115.9	127.9	139.2	152	164		
E	X	P	R	E	S	S							68.8	EM10
13.3	22.7	33.4	43.9	54.4	63.8	73.9								
L	O	C	A	L									48.5	EM10
119.5	128.9	139.3	148.6	160.7										
N	E	X	T	E	X	I	T						63	EM8
16.5	24.9	32.5	40.5	46.3	54.3	61.9	70.4	73.6						
T	R	U	C	K	S								47.1	EM8
120.4	128	136.4	144.9	152.9	161									
P	e	r	s	h	i	n	g	R	d				75.4	EM8/6
12.3	20.6	28.2	33.1	40.6	48.8	53.4	61	66.1	74.1	82.6				
N	O	T	R	U	C	K	S						45.9	D6
41.5	47	51.2	57.2	62	67.4	72.9	78.1	83.3						

SIGN DETAIL

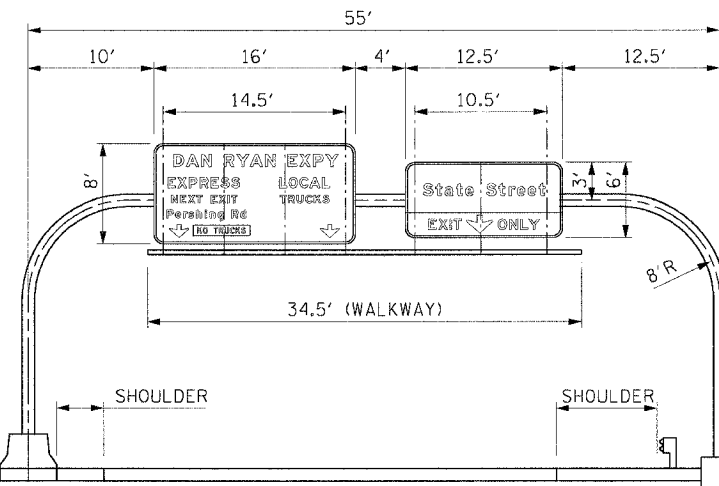
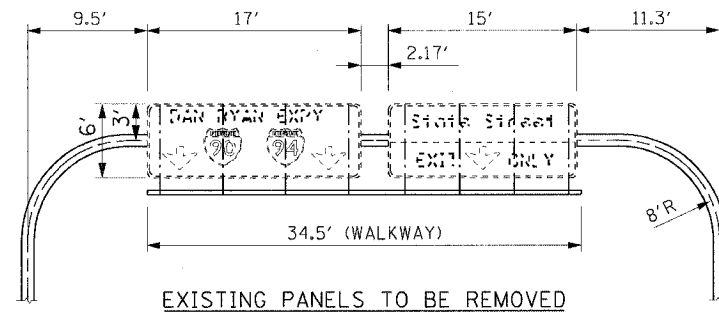


SIGN NUMBER	name
WIDTH x HEIGHT	12'-6" x 6'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	OVERHEAD
BACKGROUND	TYPE: REFLECTIVE
LEGEND/BORDER	COLOR: GREEN
	TYPE: REFLECTIVE
	COLOR: WHITE

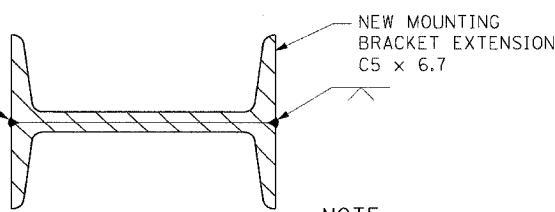
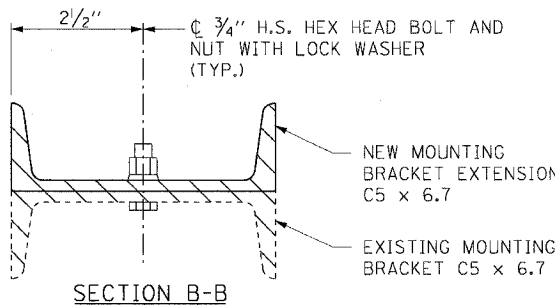
SYMBOL	X	Y	WID	HT
ARDOWN	58.4	4.4	25	17.2

DIMENSIONS ARE IN INCHES, TENTHS LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

LETTER POSITIONS (X)											LENGTH SERIES, SIZE			
S	t	a	t	e	S	t	r	e	e	t			116.5	EM12/9
16.7	28.9	37.6	48.6	57.3	65	77	89.1	98.9	106.6	117	127.2			
E	X	I	T										31.2	E10
22.2	31.6	42.3	46.1											
O	N	L	Y										39.4	E10
88.4	99.2	109.8	117.8											

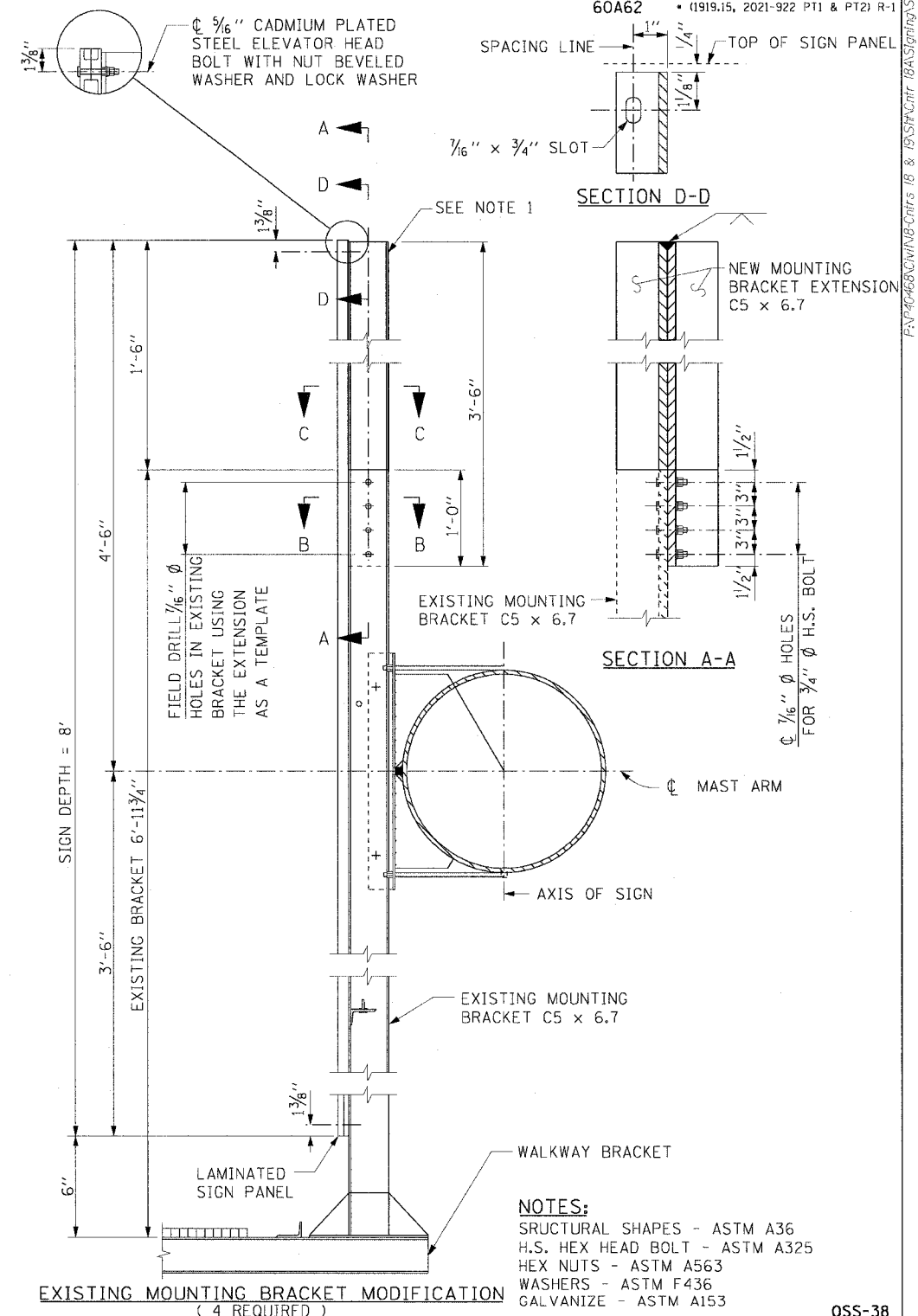


MOUNTING DETAIL FOR PANEL REPLACEMENT  
OVERHEAD SIGN TUBULAR FRAME  
3,252.00 FEET DOWN STREAM FROM  
OVERHEAD SIGN STRUCTURE 11-WB\_SKY1  
STATION 6000+50.00 W.B. SKYWAY  
LOOKING WEST



NOTE:  
THE COST OF FURNISHING, FABRICATING  
FINISHING AND INSTALLING FOUR (4)  
BRACKET EXTENSION INCLUDING FIELD  
DRILLING IS INCLUDED IN THE COST OF  
FURNISHING AND MOUNTING THE NEW  
SIGN PANEL.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	165
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



NOTES:  
STRUCTURAL SHAPES - ASTM A36  
H.S. HEX HEAD BOLT - ASTM A325  
HEX NUTS - ASTM A563  
WASHERS - ASTM F436  
GALVANIZE - ASTM A153

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
  
PERMANENT SIGN PANEL MOUNTING DETAILS  
PROPOSED PANEL REPLACEMENT  
EXISTING SKYWAY TUBULAR SIGN STRUCTURE  
SCALE: NONE DRAWN BY: JSS  
DATE: June 9, 2006 CHECKED BY: RDP

F:\N40466\CH\WB-Ctrns 18 & 19\STAFF\CTR 18A\Signing\SS18A03824517

Illinois Department of Transportation SOIL BORING LOG  
 Date 4/9/05  
 ROUTE F.A.I. 1-90 / I-94 DESCRIPTION Dan Ryan Expressway (I-91-419-01) LOGGED BY R.P.  
 SECTION 2122-921PT.1) R-3 LOCATION Chicago, Illinois  
 COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	Station	D	B	U	M	Surface Water Elev.	ft	D	B	U	M
STB-52	4379+93.62	1	5	0	1	10.0	10.0	1	5	0	1
Groundwater Elev.: Dry ft											
Upon Completion After Hrs.											
Ground Surface Elev. 9.63 ft											
Asphalt 2" Concrete 10" Sub Base Gravel (FILL) Very Stiff to Hard Gray CLAY											
Very Stiff Gray SILTY CLAY LOAM											
Auger Refusal @ 26.5 feet -23.87											
End of Boring											
Hard / Very Dense Gray SILTY CLAY LOAM / SILTY LOAM											
End of Boring											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM D 1586)  
 BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation SOIL BORING LOG  
 Date 4/9/05  
 ROUTE F.A.I. 1-90 / I-94 DESCRIPTION Dan Ryan Expressway (I-91-419-01) LOGGED BY R.P.  
 SECTION 2122-921PT.1) R-3 LOCATION Chicago, Illinois  
 COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	Station	D	B	U	M	Surface Water Elev.	ft	D	B	U	M
STB-52	4379+93.62	1	5	0	1	10.0	10.0	1	5	0	1
Groundwater Elev.: Dry ft											
Upon Completion After Hrs.											
Ground Surface Elev. 14.97 ft											
Base Material: 10" Brown to Gray Clay and Sand (FILL) Medium Dense to Dense Brown SAND, trace Gravel											
Hard / Medium Dense Gray SILTY CLAY LOAM / SILTY LOAM											
Loose Gray SILTY LOAM											
Very Stiff Gray CLAY											
End of Boring											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM D 1586)  
 BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation SOIL BORING LOG  
 Date 4/9/05  
 ROUTE F.A.I. 1-90 / I-94 DESCRIPTION Dan Ryan Expressway (I-91-419-01) LOGGED BY R.P.  
 SECTION 2122-921PT.1) R-3 LOCATION Chicago, Illinois  
 COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	Station	D	B	U	M	Surface Water Elev.	ft	D	B	U	M
STB-46	4421+92.40	1	5	0	1	10.0	10.0	1	5	0	1
Groundwater Elev.: Dry ft											
Upon Completion After Hrs.											
Ground Surface Elev. 0.23 ft											
Base Material: 10" Stiff Gray CLAY											
Very Stiff Gray SILTY CLAY LOAM											
Hard / Very Dense Gray SILTY CLAY LOAM / SILTY LOAM											
Auger Refusal @ 31.5' -31.27											
End of Boring											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM D 1586)  
 BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation SOIL BORING LOG  
 Date 5/22/03  
 ROUTE F.A.I. 1-94 / I-90 DESCRIPTION Dan Ryan Expressway (I-91-419-01) LOGGED BY P.P.  
 SECTION 2122-921PT.1) R-2 LOCATION Chicago, Illinois  
 COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	Station	D	B	U	M	Surface Water Elev.	ft	D	B	U	M
SSU-9	2421+52.60	1	5	0	1	10.0	10.0	1	5	0	1
Groundwater Elev.: Dry ft											
Upon Completion After Hrs.											
Ground Surface Elev. 2.96 ft											
Concrete 10" Hard Gray CLAY											
Very Stiff to Hard Gray SILTY CLAY LOAM											
Hard / Medium Dense Gray SILTY CLAY LOAM / SILTY LOAM											
Auger Refusal @ 31.5' -31.27											
End of Boring											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM D 1586)  
 BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation SOIL BORING LOG  
 Date 8/18/03  
 ROUTE F.A.I. 1-90 / I-94 DESCRIPTION Dan Ryan Expressway (I-91-419-01) LOGGED BY A.P.  
 SECTION 2122-921PT.1) R-3 LOCATION Chicago, Illinois  
 COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	Station	D	B	U	M	Surface Water Elev.	ft	D	B	U	M
STB-19	2453+93.10	1	5	0	1	10.0	10.0	1	5	0	1
Groundwater Elev.: Dry ft											
Upon Completion After Hrs.											
Ground Surface Elev. 5.35 ft											
Brown Sub Base and Gravel (FILL) Medium Dense L. Brown medium to fine SAND											
Very Stiff Gray CLAY											
Very Stiff to Hard Gray CLAY LOAM											
End of Boring											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM D 1586)  
 BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation SOIL BORING LOG  
 Date 4/6/06  
 ROUTE F.A.I. 1-90 / I-94 DESCRIPTION Dan Ryan Expressway (I-91-419-01) LOGGED BY R.P.  
 SECTION 2122-921PT.1) R-3 LOCATION Chicago, Illinois  
 COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	Station	D	B	U	M	Surface Water Elev.	ft	D	B	U	M
STB-50	4453+92.23	1	5	0	1	10.0	10.0	1	5	0	1
Groundwater Elev.: Dry ft											
Upon Completion After Hrs.											
Ground Surface Elev. 0.94 ft											
Asphalt 2" Concrete 10" Very Stiff to Hard Gray SILTY CLAY LOAM (continued)											
Very Stiff to Hard Gray SILTY CLAY LOAM											
Hard / Very Dense Gray SILTY CLAY LOAM / SILTY LOAM											
Medium Dense Gray SILT											
Very Stiff to Hard Gray SILTY CLAY LOAM											
End of Boring											

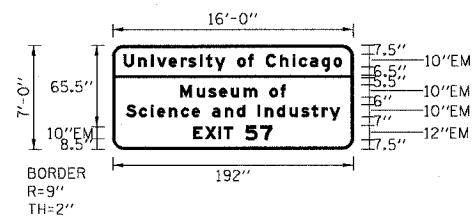
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM D 1586)  
 BBS, from 137 (Rev. 8-99)



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)
NAME	DATE	
		SOIL BORING LOGS FOR SIGN STRUCTURE FOUNDATIONS  SCALE: NONE DRAWN BY: SLW DATE: June 9, 2006 CHECKED BY: PJO

P:\140466\CHIN\CHIN-CHIN-18 & 19\SI\CHIN-18\CHIN-18-166.dwg 11/06/24 AM 6/2/2006

SIGN DETAIL



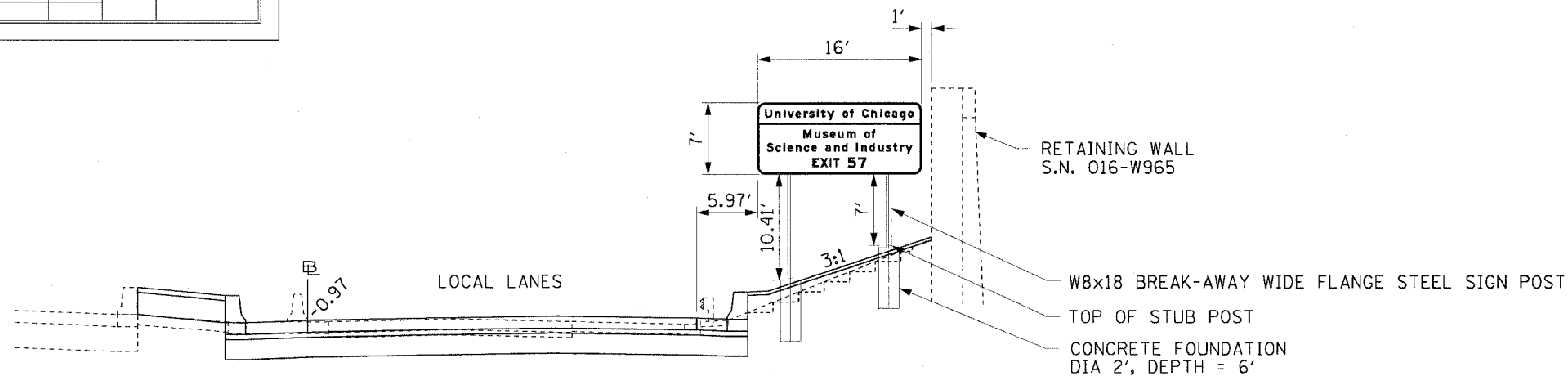
SIGN NUMBER	57 UC & MSI
WIDTH x HEIGHT	16'-0" x 7'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE COLOR TOP PANEL: GREEN COLOR BOTTOM PANEL: BROWN
LEGEND/BORDER	TYPE: REFLECTIVE COLOR: WHITE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	167
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				

DIMENSIONS ARE IN INCHES, TENTHS

LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

LETTER POSITIONS (X)													LENGTH SERIES, SIZE										
U	n	i	v	e	r	s	i	t	y				(CONTINUED ON NEXT LINE)										
8.9	20.5	30.7	35.4	44.8	54.4	60.5	69.9	74.6	81.7	89.7													
(CONTINUATION OF PREVIOUS LINE)													o	f	c	h	i	c	a	g	o	174.1	EM10/7.5
M	u	s	e	u	m								84.1	EM10/7.5									
53.9	67.2	76.4	85	94.5	104.7	115.3	125.4	134															
S	c	i	e	n	c	e							(CONTINUED ON NEXT LINE)										
10.7	21.1	30.5	35.5	45	54.5	63.2	69.6	79.6	89.8	99.3	105.6												
(CONTINUATION OF PREVIOUS LINE)													I	n	d	u	s	t	r	y	170.5	EM10/7.5	
													115.6	121.7	131.2	141.4	150.6	158.9	167.1	173.2			
E	X	I	T	5	7								63.1	EM10,EM12									
64.4	73.9	84.5	88.6	105.9	118																		



MOUNTING DETAIL  
PROPOSED GROUND MOUNT  
N.B. I-90/94 STA. 4448+00  
LOOKING NORTH

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)
NAME	DATE	
		PERMANENT SIGN PANEL MOUNTING DETAILS PROPOSED GROUND MOUNTED SIGN PANELS
SCALE: NONE		DRAWN BY: SWANG
DATE: June 9, 2006		CHECKED BY: RMG

CTE | AECOM

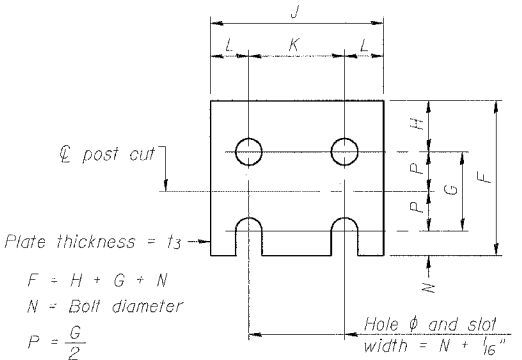
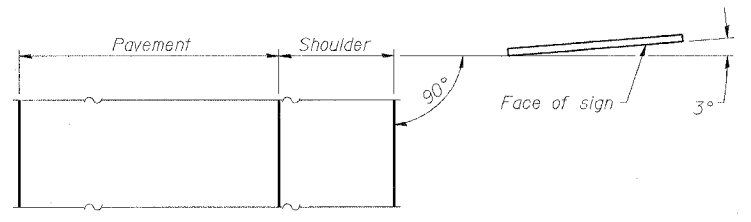
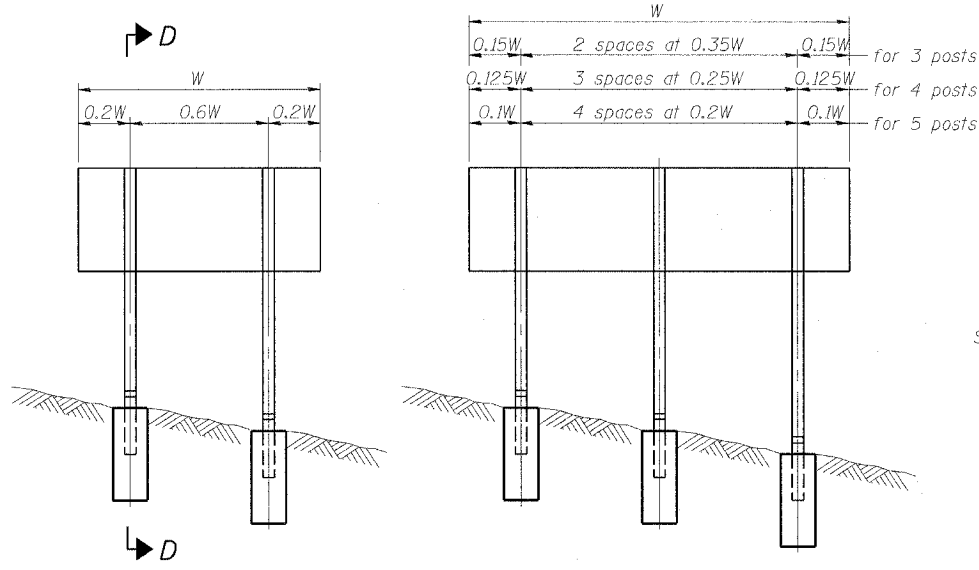
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160258 AM

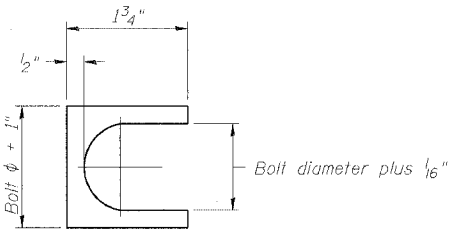
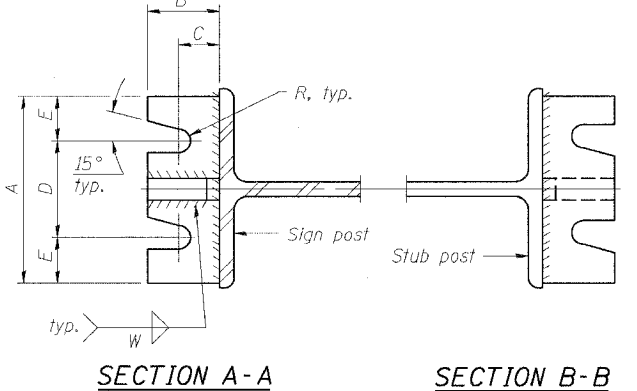
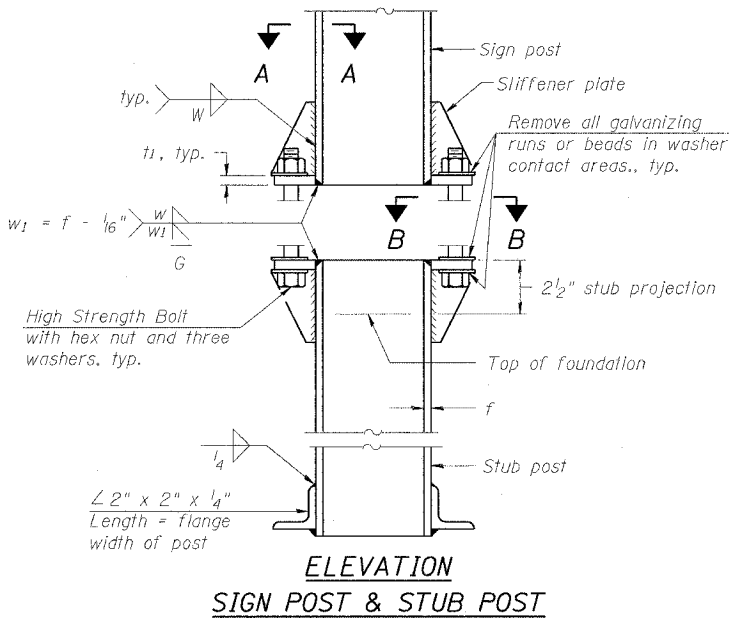
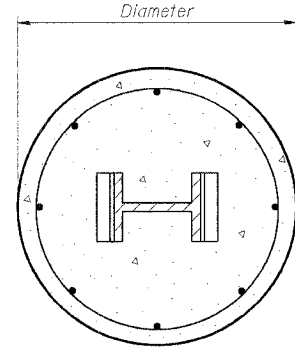
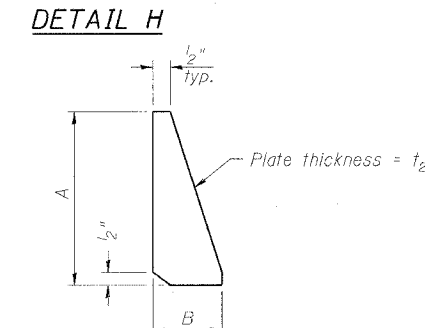
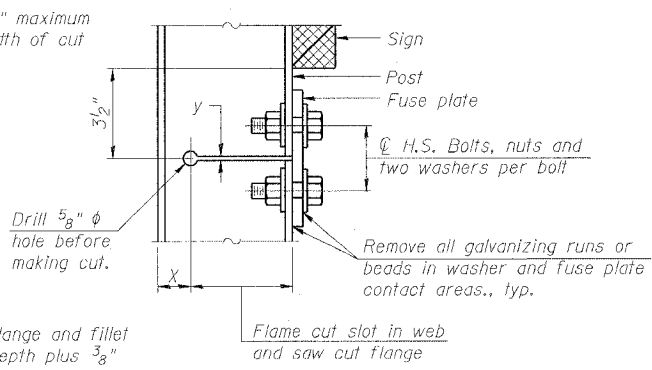
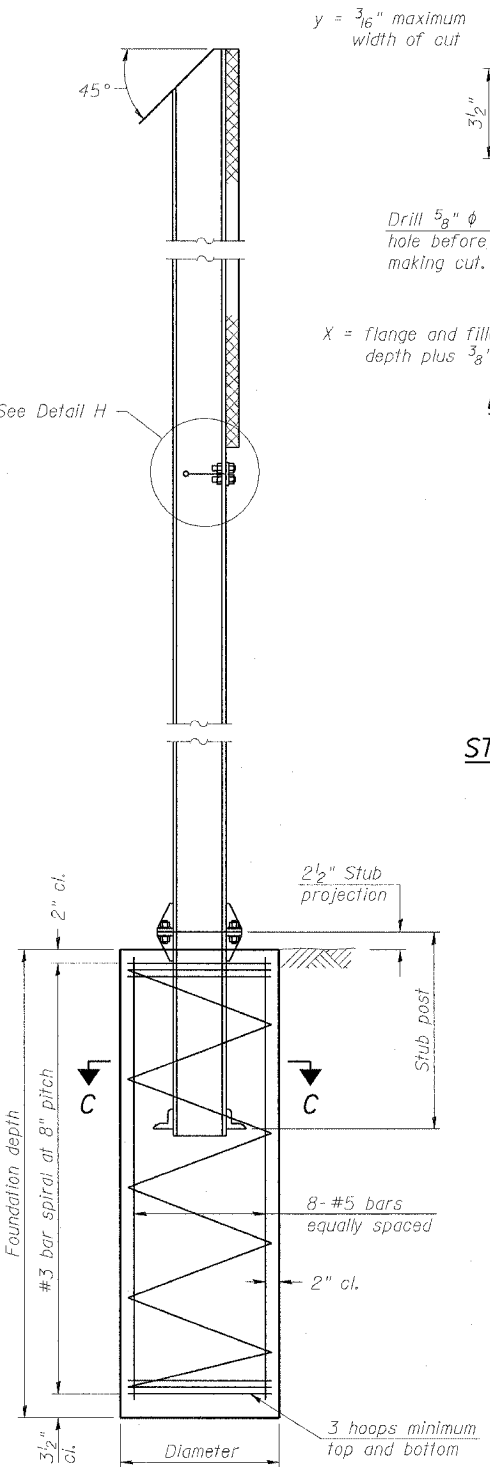
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.I. RTE. 90/94		COOK	312	168
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

(1919), 5 & 2021-922 PT.1 R-1 60A62



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



**GENERAL NOTES**

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 505.04(FX3), and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

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

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

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

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

**BREAK-AWAY WIDE FLANGE STEEL SIGN POST DETAILS**

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
 PROPOSED IMPROVEMENT  
 63RD STREET TO GARFIELD BLVD

DESIGNED - JSS	20
CHECKED - RDP	EXAMINED
DRAWN - JSS	PASSED
CHECKED - RDP	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

BAW-A-1 1-7-05

NUMBER	REVISION	DATE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

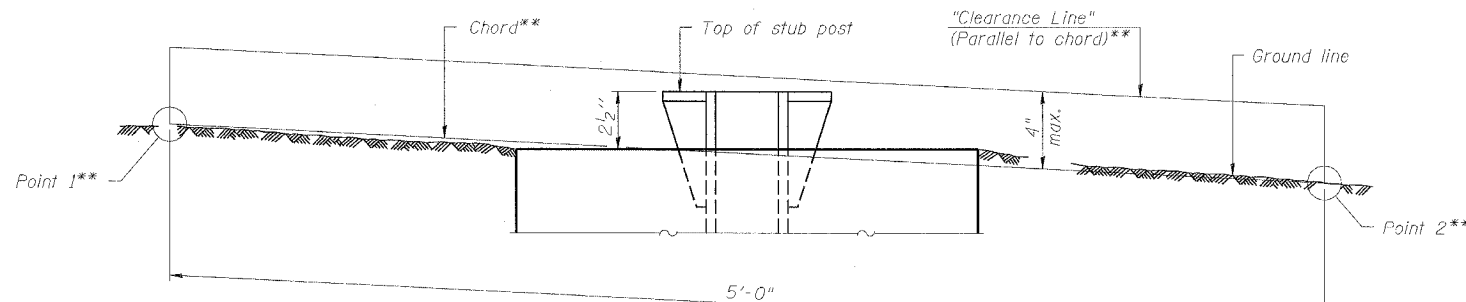
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RIE. 90/94		COOK	312	169
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

11913.15 & 2021-922 PT.11 R-1 60A62

POST	CONCRETE FOUNDATION TABLE							POST TO STUB POST CONNECTION DATA										FUSE PLATE DATA					
	Foundation			Reinforcement				Stub Post Length	Bolt Size	A	B	C	D	E	t <sub>1</sub>	t <sub>2</sub>	R	W	J	K	L	t <sub>3</sub>	
	Diameter	* Minimum Depth	Concrete (cu. yds.) ①	Vertical Bars Length	Bar Spirals Diameter	Bar Spirals Length	lbs. ②																
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-3"	5/8" x 3 1/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	1 1/2"	1 1/4"	1/4"	4"	2 1/4"	7/8"	1/4"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	5/8" x 3 1/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	1 1/2"	1 1/4"	1/4"	6"	3 1/2"	1 1/4"	3/8"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	3/4" x 3 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	1 1/2"	5/16"	5/16"	5 1/4"	2 3/4"	1 1/4"	3/8"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2 1/2"	105'-0"	92	3'-0"	3/4" x 3 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	1 1/2"	5/16"	5/16"	5 3/4"	2 3/4"	1 1/2"	1/2"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2 1/2"	112'-0"	98	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	1 1/2"	3/8"	3/8"	5 3/4"	2 3/4"	1 1/2"	5/8"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2 1/2"	119'-0"	107	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	1 1/2"	3/8"	3/8"	6 1/2"	3 1/2"	1 1/2"	5/8"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8 1/2"	145'-0"	113	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	1 1/2"	3/8"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8 1/2"	153'-0"	122	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	1 1/2"	3/8"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8 1/2"	162'-0"	130	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	1 1/2"	3/8"	3/8"	7"	3 1/2"	1 3/4"	1/2"

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

POST	FUSE PLATE BOLT SIZE															
	Sign Depth															
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"			
W6x9	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	5/8" x 1 3/4"	5/8" x 1 3/4"	5/8" x 1 3/4"	---	---	---	---	---	---	---	---	---	
W6x15	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	7/8" x 2"	7/8" x 2"	---	---	---	---	---	
W8x18	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	
W10x22	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/4"	7/8" x 2 1/2"	1" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	
W10x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1 1/8" x 3"	---	---	
W12x26	---	---	---	---	---	5/8" x 2 1/4"	---	---	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	---	
W14x30	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	7/8" x 2 1/2"	1" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	---	
W14x38	---	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	---	
W16x45	---	---	---	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 1/2"	1" x 2 3/4"	---	



ELEVATION  
GROUND LINE & STUB POST

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

① Quantity includes all concrete necessary for one foundation.

② Includes reinforcement bars and spiral hooping for one foundation.

DESIGNED	- JSS
CHECKED	- RDP
DRAWN	- JSS
CHECKED	- RDP

EXAMINED	20
PASSED	ENGINEER OF STRUCTURAL SERVICES
	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

BAW-A-2

1-7-05

BREAK-AWAY WIDE FLANGE  
STEEL SIGN POST TABLES

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
PROPOSED IMPROVEMENT  
63RD STREET TO GARFIELD BLVD

(Sheet 2 of 2)

GM-3

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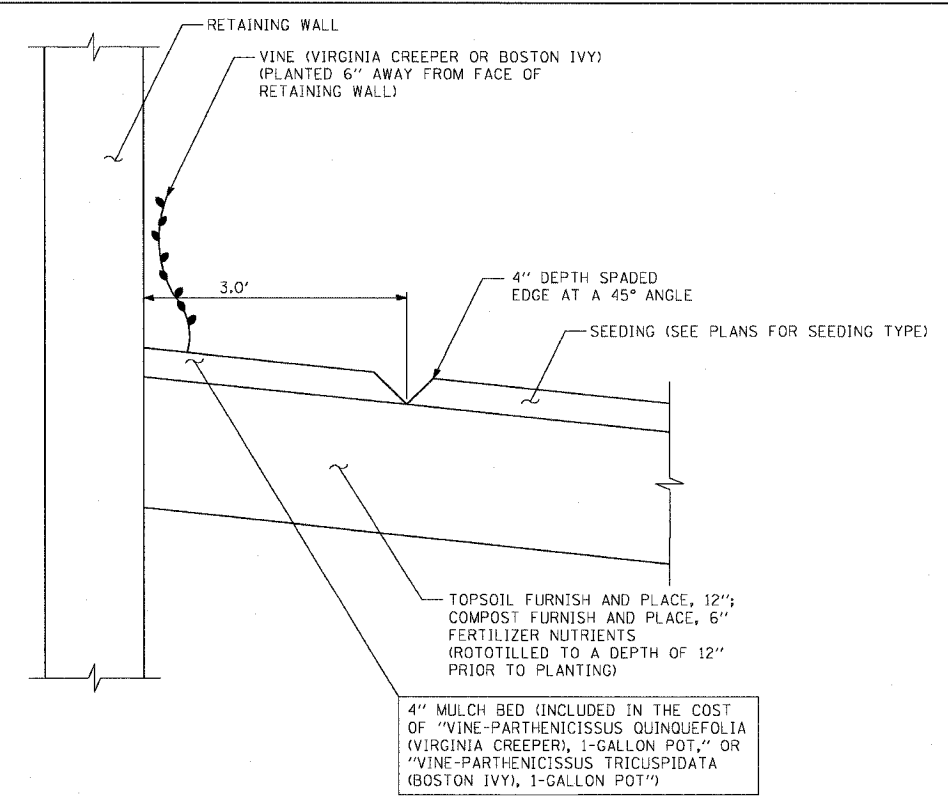
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90/94		COOK	312	170
STA.		TO STA.		
60A62		• (1919.15, 2021-922 PT1 & PT2) R-1		

**GENERAL PLAN NOTES - LANDSCAPING:**

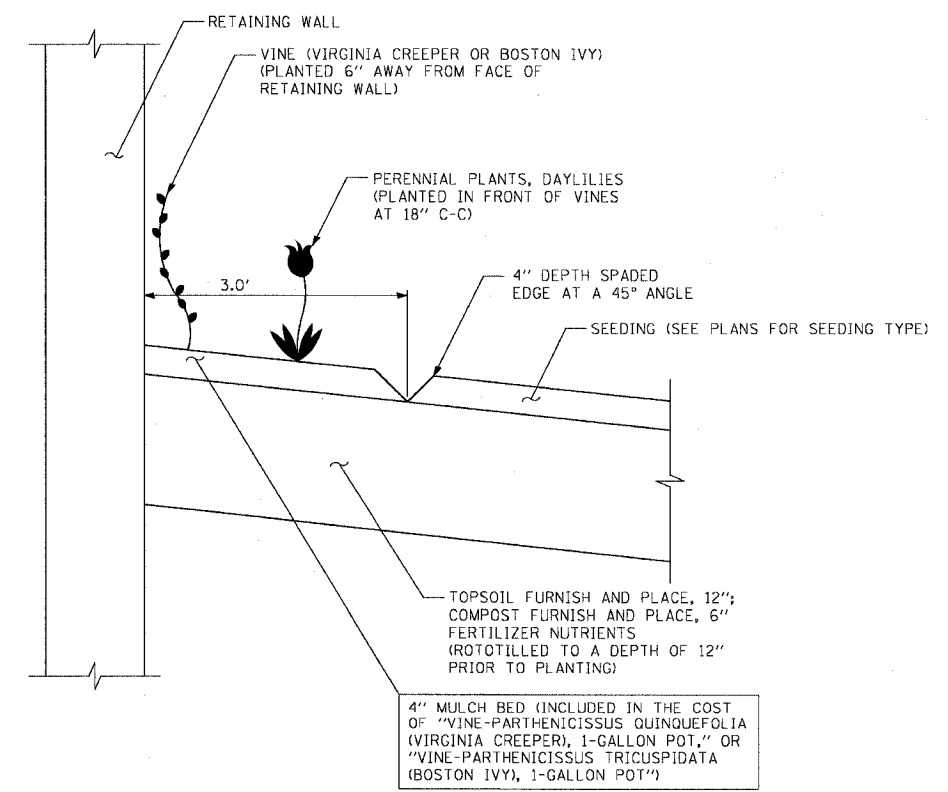
1. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
2. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
3. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 2A SHALL BE FROM APRIL 1 TO JUNE 1 AND FROM AUGUST 15 TO SEPTEMBER 30. ALL SEEDING NOT SOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AS HIS/HER EXPENSE.
4. AREAS TO BE SEEDED BETWEEN NOVEMBER 15 AND MARCH 31 SHALL REQUIRE DORMANT SEEDING, WHICH SHALL BE INCLUDED IN THE COST OF "SEEDING CLASS 2A," "SEEDING CLASS 4 (MODIFIED)," OR "SEEDING, CLASS 5A (MODIFIED)."
5. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASSES 4 AND 5 SHALL BE FROM APRIL 15 TO JUNE 30 AND FROM OCTOBER 15 TO DECEMBER 1. ALL SEEDING NOT SOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AS HIS/HER EXPENSE.
6. LAYOUT OF LANDSCAPED AREAS WILL REQUIRE APPROVAL OF THE ENGINEER PRIOR TO TOPSOIL PLACEMENT, SEEDING, AND PLANTING.

**GENERAL PLAN NOTES - PLANTING BED:**

7. SEE LANDSCAPING PLANS FOR SPECIFIC LOCATIONS AND QUANTITIES OF VINES, SHRUBS, AND DAYLILIES.
8. ALL COMPOST AND TOPSOIL AREAS SHALL BE THOROUGHLY ROTOTILLED TO A DEPTH OF 12" PRIOR TO PLANTING AND/OR SEEDING
9. THE CONTRACTOR SHALL ORDER THE FOLLOWING PLANT MATERIAL IMMEDIATELY FOLLOWING EXECUTION OF THE CONTRACT TO ASSURE AVAILABILITY OF THE PLANT MATERIAL FOR SPRING PLANTING AT THE CONCLUSION OF THE CONTRACT:
  - VINE-PARTHENOCISSUS QUINQUEFOLIA (VIRGINIA CREEPER), 1-GALLON
  - VINE-PARTHENOCISSUS TRICUSPIDATA (BOSTON IVY), 1-GALLON
  - HEMEROCALLIS "STELLA D'ORO" (STELLA D'ORO DAYLILY), 1-GALLON
  - SHRUB, SYRINGA X PERSICA (PERSIAN LILAC), 3' HEIGHT, BALLED AND BURLAPPED.
10. MULCH BED SHALL BE PLACED OVER ROTOTILLED COMPOST/TOPSOIL AS SHOWN IN THE PLANTING DETAILS AND ACCORDING TO IDOT STANDARD SPECIFICATION 253.11, EXCEPT THAT NO WEED BARRIER FABRIC IS REQUIRED. COST OF MULCH COVER IS INCLUDED WITH PAYMENT FOR THE VINES, DAYLILIES, AND SHRUBS.
11. PRE-EMERGENT GRANULAR HERBICIDE SHALL BE PLACED IN MULCHED BEDS ACCORDING TO THE SPECIAL PROVISION.
12. FERTILIZER NUTRIENTS SHALL BE ADDED AND APPLIED TO THE VINE BEDS AT A 5:3:2 RATIO AS FOLLOWS:
  - NITROGEN FERTILIZER NUTRIENTS: 90 LBS/ACRE
  - PHOSPHORUS FERTILIZER NUTRIENTS: 54 LBS/ACRE
  - POTASSIUM FERTILIZER NUTRIENTS: 36 LBS/ACRE
 THIS FERTILIZER SHALL BE TILLED AND CULTIVATED INTO THE SOIL TO A DEPTH OF 12"



**VINE PLANTING DETAIL**



**VINE AND DAYLILY PLANTING DETAIL**

**SCHEDULE OF LANDSCAPE ITEMS**

PAY ITEM DESCRIPTION	COMMON NAME	SIZE	SPACING	UNIT	TOTAL
VINE - PARTHENOCISSUS QUINQUEFOLIA, 1- GALLON POT	VIRGINIA CREEPER	1-GALLON	3' C-C	EACH	379
VINE - PARTHENOCISSUS TRICUSPIDATA	BOSTON IVY	1-GALLON	3' C-C	EACH	273
SHRUB, SYRINGA X PERSICA	PERSIAN LILAC	3' HEIGHT - BALLED AND BURLAPPED	3' C-C" STAGGERED	EACH	153
PERENNIAL PLANTS, DAYLILIES	STELLA D'ORO	1-GALLON	18" C-C"	UNITS	2.33

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

**LANDSCAPING NOTES AND DETAILS**

SCALE: NONE  
 DATE: June 9, 2006







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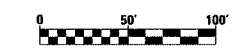
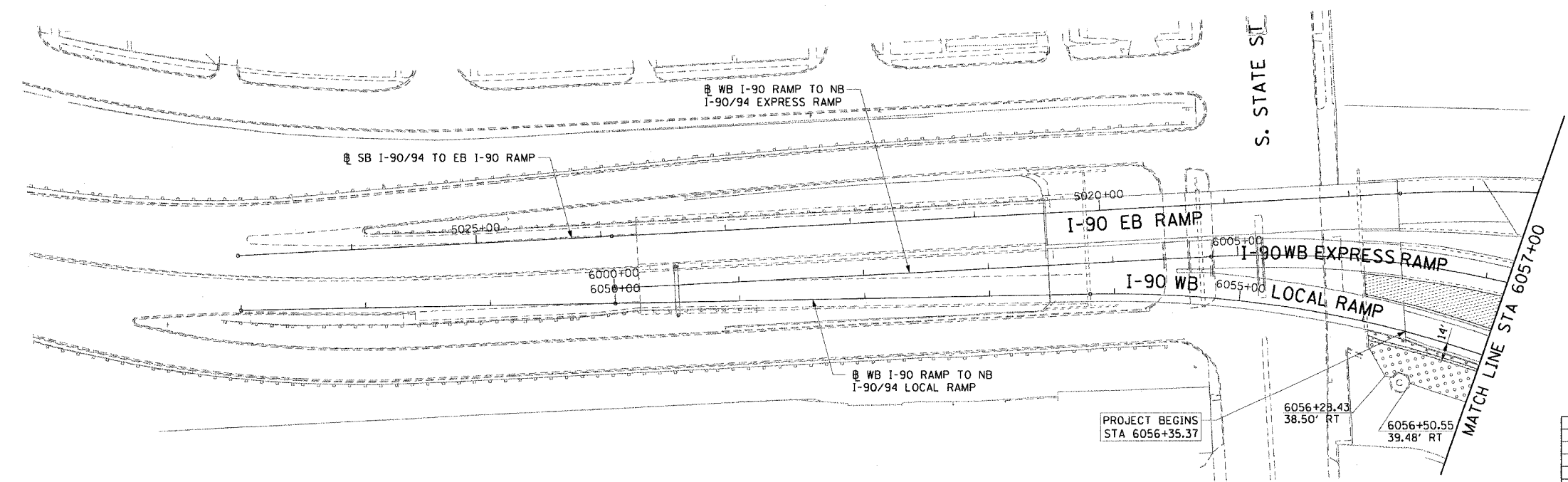
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	171
STA. 6056+35.37		TO STA. 6057+00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
60A62		(1919.15, 2021-922 PT1 & PT2) R-1		

LEGEND:

-  TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A EROSION CONTROL BLANKET
-  TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 2A EROSION CONTROL BLANKET
-  TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 4 (MODIFIED) SEEDING, CLASS 5A (MODIFIED) EROSION CONTROL BLANKET
-  TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 4A (MODIFIED) SEEDING, CLASS 5 (MODIFIED) EROSION CONTROL BLANKET
-  PERENNIAL PLANTS, IVY OR SHRUBS TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" EROSION CONTROL BLANKET
-  VINE

NOTES:

1. THE DIMENSIONS SHOWN ON THE PLANS SHALL BE USED AS A GUIDE TO LAY OUT THE SPECIFIED RESTORATION AREAS.



REVISIONS	
NAME	DATE

LA-01

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

**LANDSCAPING PLANS  
 AND DETAILS**

SCALE: 1"=50'  
 DATE: June 9, 2006

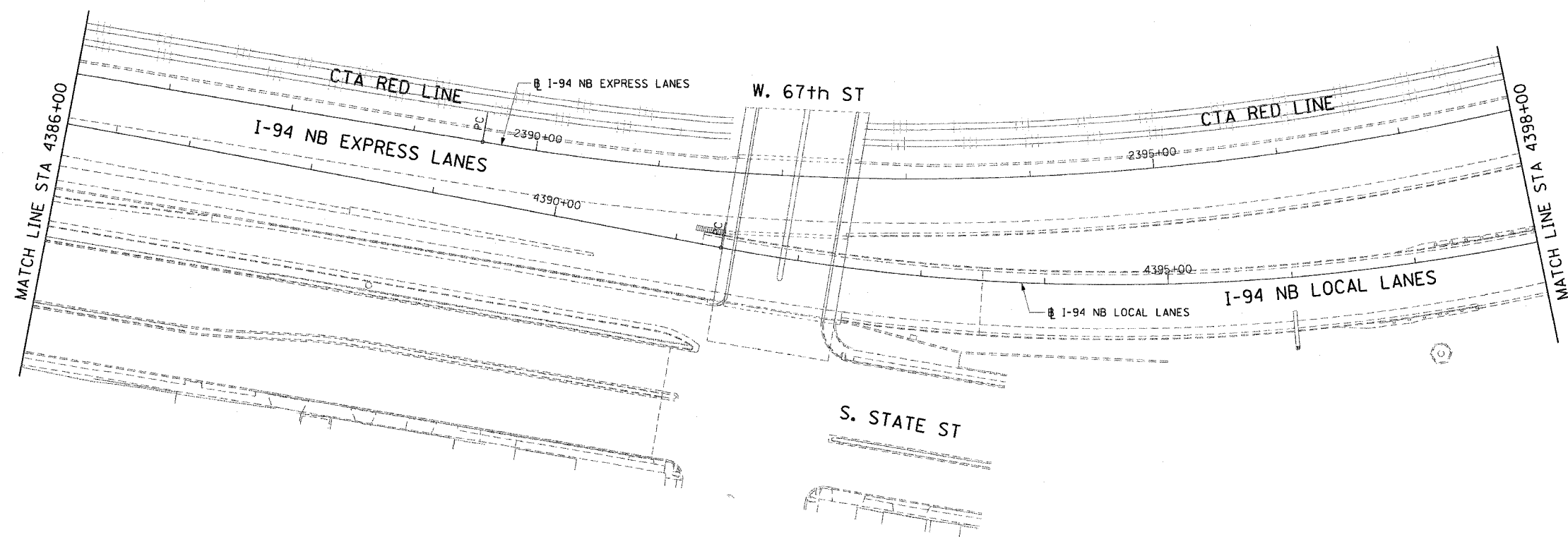
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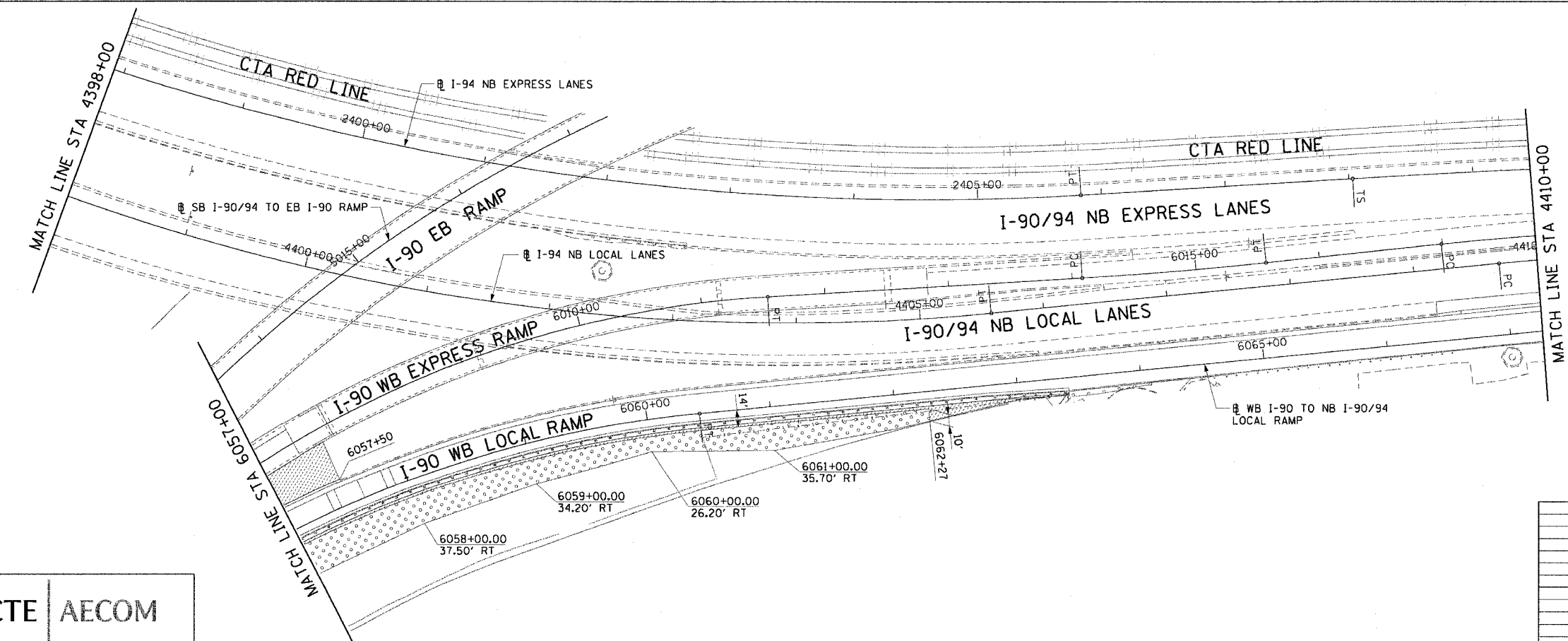
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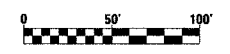
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90/94	*	COOK	312	172
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 * (1919.15, 2021-922 PT1 & PT2) R-1				



- LEGEND:
- TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A EROSION CONTROL BLANKET
  - TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 2A EROSION CONTROL BLANKET
  - TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 4 (MODIFIED) SEEDING, CLASS 5A (MODIFIED) EROSION CONTROL BLANKET
  - TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 4A (MODIFIED) SEEDING, CLASS 5 (MODIFIED) EROSION CONTROL BLANKET
  - PERENNIAL PLANTS, IVY OR SHRUBS TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" EROSION CONTROL BLANKET
  - VINE



- NOTES:
- THE DIMENSIONS SHOWN ON THE PLANS SHALL BE USED AS A GUIDE TO LAY OUT THE SPECIFIED RESTORATION AREAS.



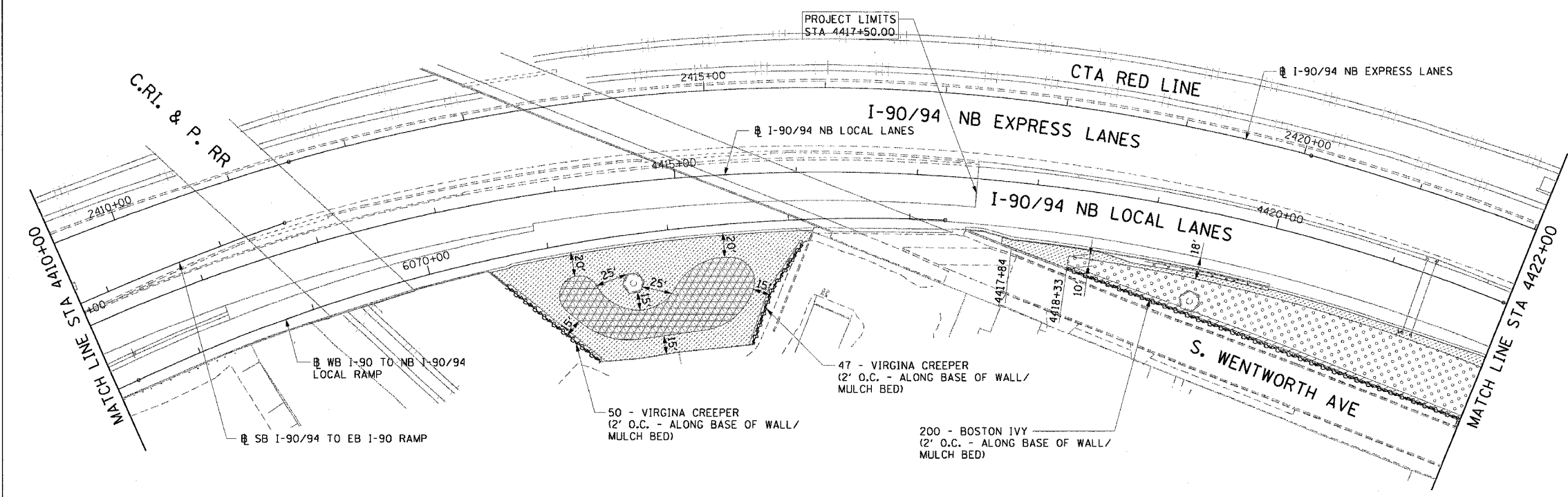
REVISIONS	
NAME	DATE

LA-02  
 ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
 LANDSCAPING PLANS  
 AND DETAILS  
 SCALE: 1"=50'  
 DATE: June 9, 2006  
 DRAWN BY: PHP  
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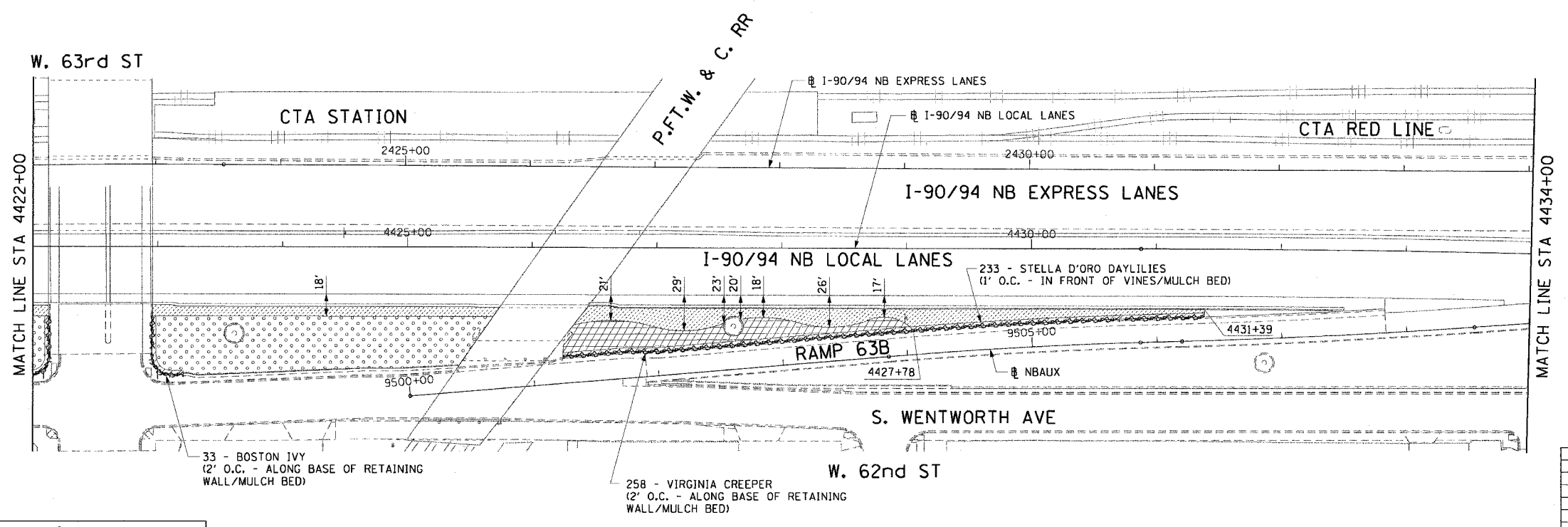
CTE | AECOM

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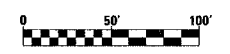
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	312	173
STA. 4410+00		TO STA. 4434+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



- LEGEND:**
- TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A EROSION CONTROL BLANKET
  - TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 2A EROSION CONTROL BLANKET
  - TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 4 (MODIFIED) SEEDING, CLASS 5A (MODIFIED) EROSION CONTROL BLANKET
  - TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 4A (MODIFIED) SEEDING, CLASS 5 (MODIFIED) EROSION CONTROL BLANKET
  - PERENNIAL PLANTS, IVY OR SHRUBS TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" EROSION CONTROL BLANKET
  - VINE



- NOTES:**
- THE DIMENSIONS SHOWN ON THE PLANS SHALL BE USED AS A GUIDE TO LAY OUT THE SPECIFIED RESTORATION AREAS.



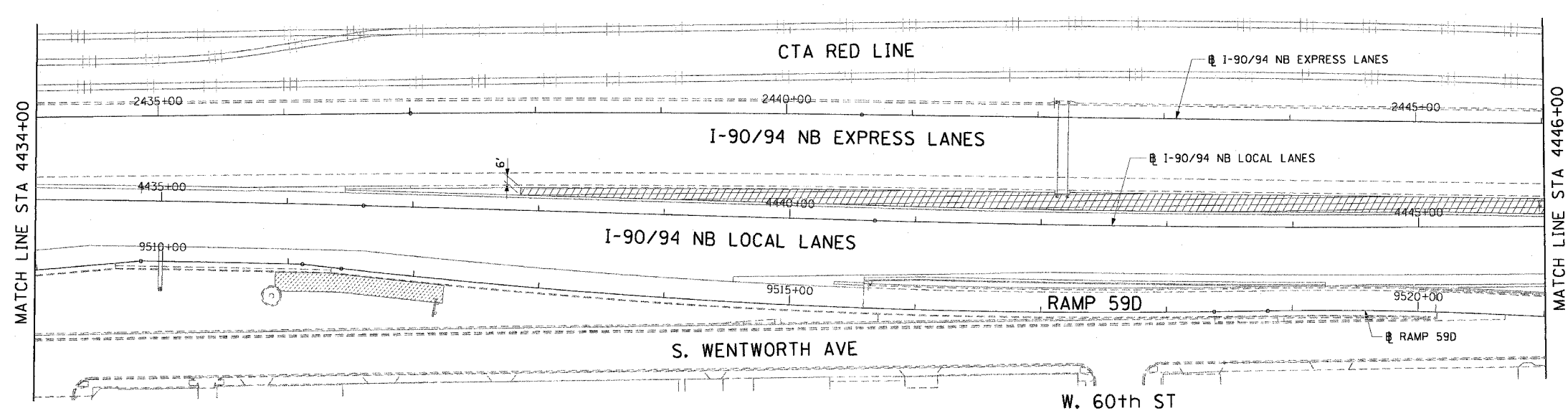
REVISIONS	
NAME	DATE

LA-03  
 ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
**LANDSCAPING PLANS AND DETAILS**  
 SCALE: 1"=50'  
 DATE: June 9, 2006  
 DRAWN BY: PHP  
 CHECKED BY: RMG

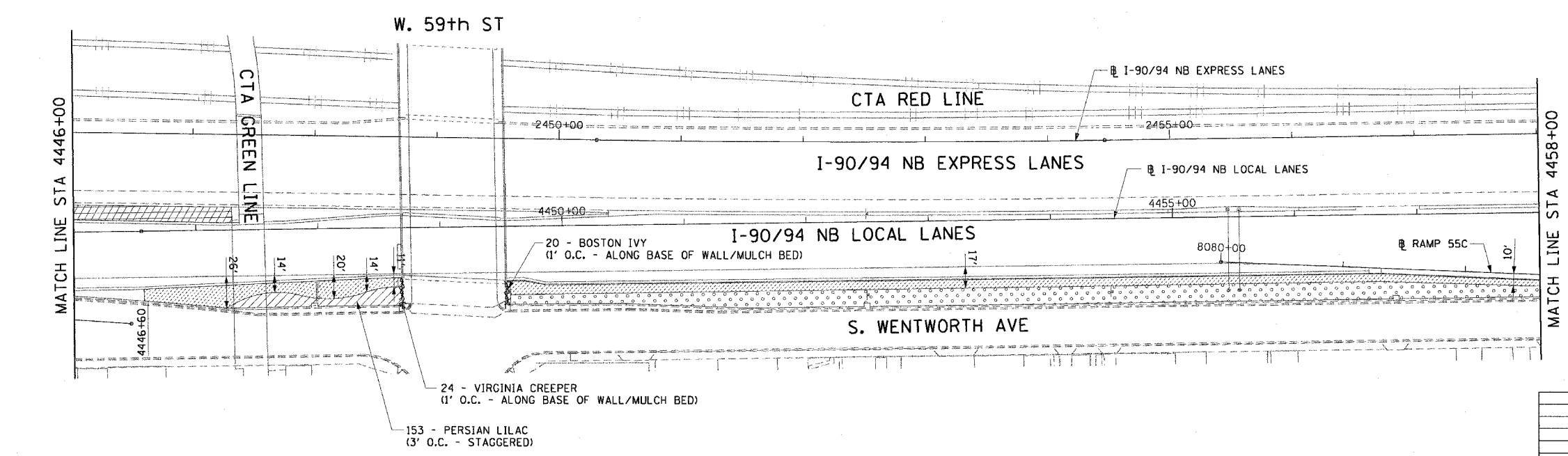
CTE | AECOM

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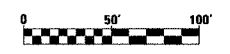
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	174
STA. 4434+00		TO STA. 4458+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



- LEGEND:
- TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A EROSION CONTROL BLANKET
  - TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 2A EROSION CONTROL BLANKET
  - TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 4 (MODIFIED) SEEDING, CLASS 5A (MODIFIED) EROSION CONTROL BLANKET
  - TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 4A (MODIFIED) SEEDING, CLASS 5 (MODIFIED) EROSION CONTROL BLANKET
  - PERENNIAL PLANTS, IVY OR SHRUBS TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" EROSION CONTROL BLANKET
  - VINE



- NOTES:
- THE DIMENSIONS SHOWN ON THE PLANS SHALL BE USED AS A GUIDE TO LAY OUT THE SPECIFIED RESTORATION AREAS.



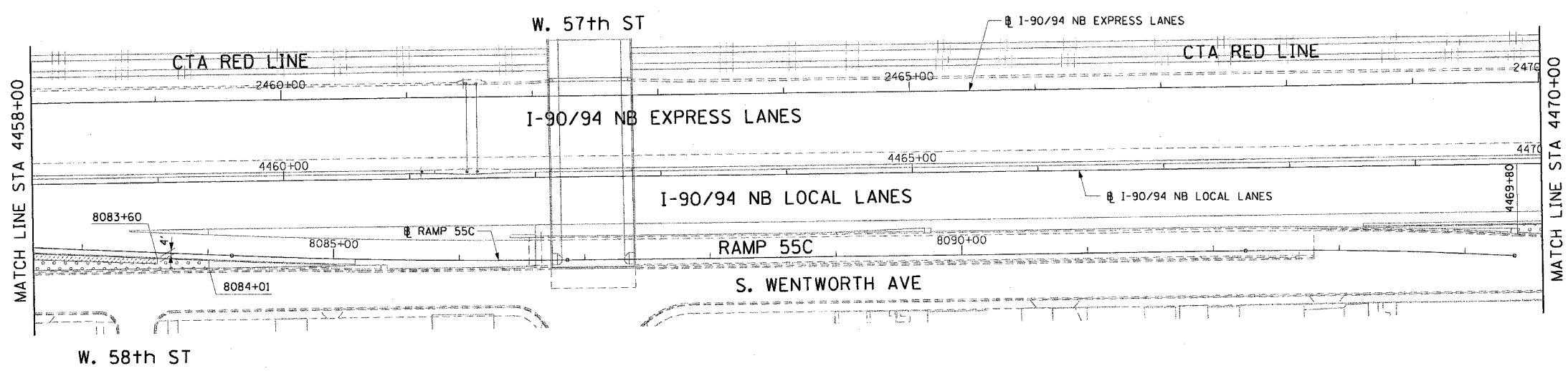
REVISIONS	
NAME	DATE

LA-04  
 ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
 LANDSCAPING PLANS  
 AND DETAILS  
 SCALE: 1"=50'  
 DATE: June 9, 2006  
 DRAWN BY: PHP  
 CHECKED BY: RMG

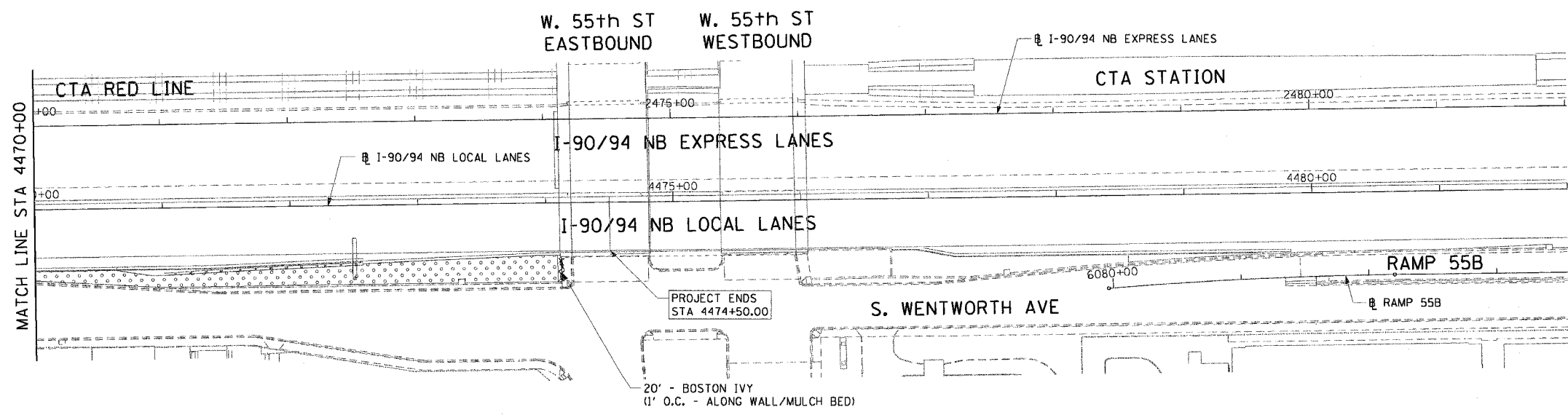
CTE | AECOM

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	312	175
STA. 4458+00		TO STA. 4474+50		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 * (1919.15, 2021-922 PT1 & PT2) R-1				



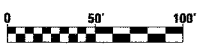
- LEGEND:
- TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A EROSION CONTROL BLANKET
  - TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 2A EROSION CONTROL BLANKET
  - TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 4 (MODIFIED) SEEDING, CLASS 5A (MODIFIED) EROSION CONTROL BLANKET
  - TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 4A (MODIFIED) SEEDING, CLASS 5 (MODIFIED) EROSION CONTROL BLANKET
  - PERENNIAL PLANTS, IVY OR SHRUBS TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" EROSION CONTROL BLANKET
  - VINE



- NOTES:
- THE DIMENSIONS SHOWN ON THE PLANS SHALL BE USED AS A GUIDE TO LAY OUT THE SPECIFIED RESTORATION AREAS.

CTE | AECOM

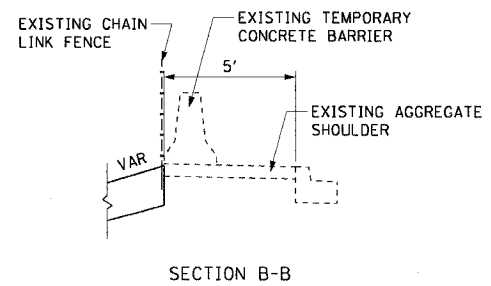
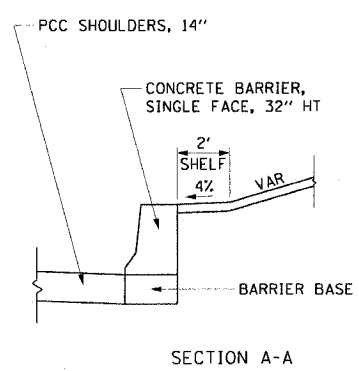
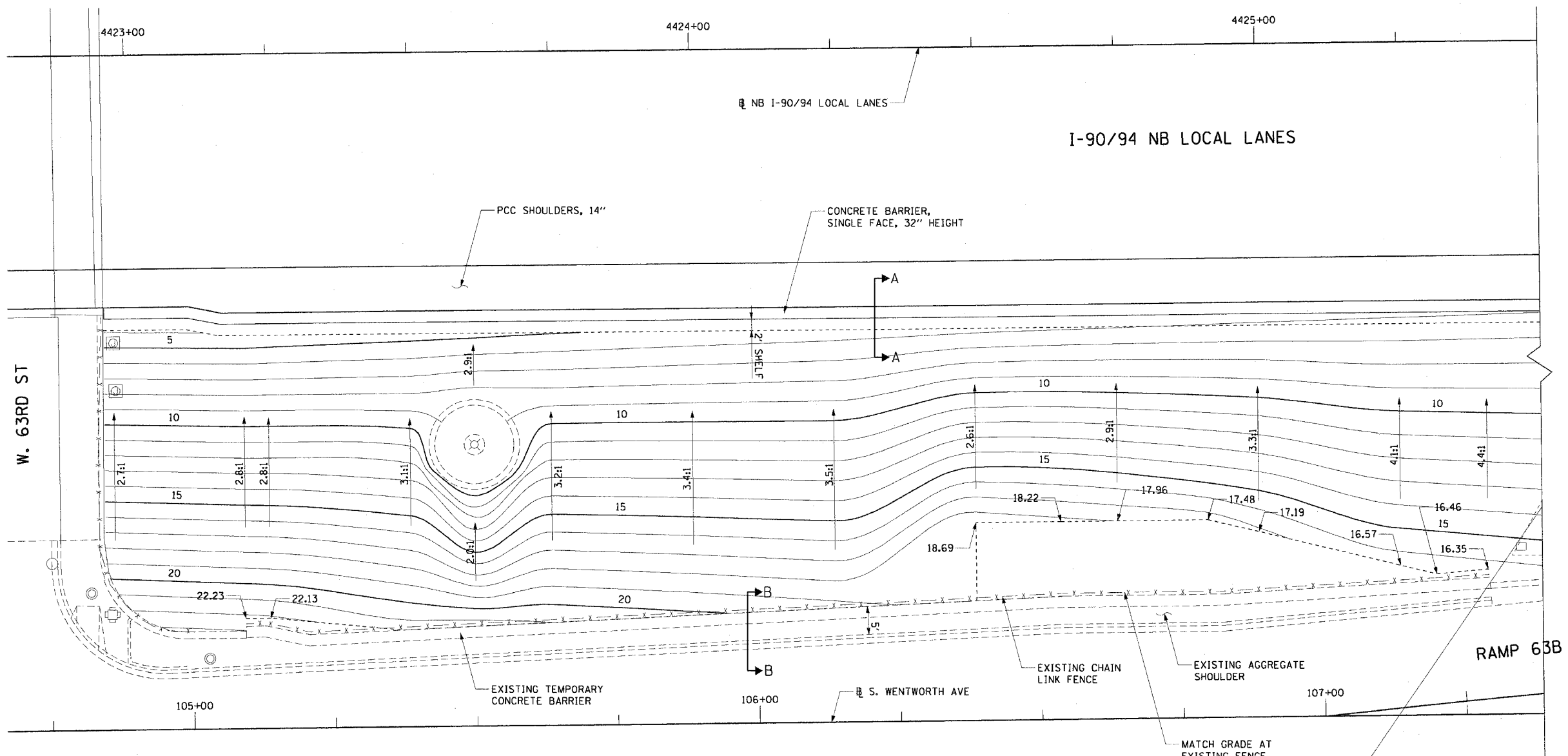
REVISIONS	
NAME	DATE



LA-05  
 ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
 LANDSCAPING PLANS  
 AND DETAILS  
 SCALE: 1"=50'  
 DATE: June 9, 2006  
 DRAWN BY: PHP  
 CHECKED BY: RMG

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	•	COOK	312	176
STA. 4423+20.70 TO STA. 4425+40.42				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



GRADING ELEVATIONS		
STATION	OFFSET	ELEV
4423+20.70	100.22' RT	22.23
+25.00	100.21' RT	22.13
+50.00	•	•
+61.36	•	•
+75.00	•	•
4424+00.00	•	•
+25.00	•	•
+50.00	84.41' RT	18.69
+65.01	84.41' RT	18.22
+75.00	84.39' RT	17.96
+90.99	84.37' RT	17.48
4425+00.00	86.57' RT	17.19
+25.00	92.78' RT	16.57
+31.36	94.39' RT	16.46
4425+40.50	93.61' RT	16.35

NOTE:  
ELEVATIONS ARE FOR FUTURE LOCATION OF FLUTED KNEE WALL CONSTRUCTED IN CONTRACT 62985.

• OFFSETS AND ELEVATIONS SHALL MATCH THE EXISTING AGGREGATE SHOULDER.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

**GRADING PLANS**

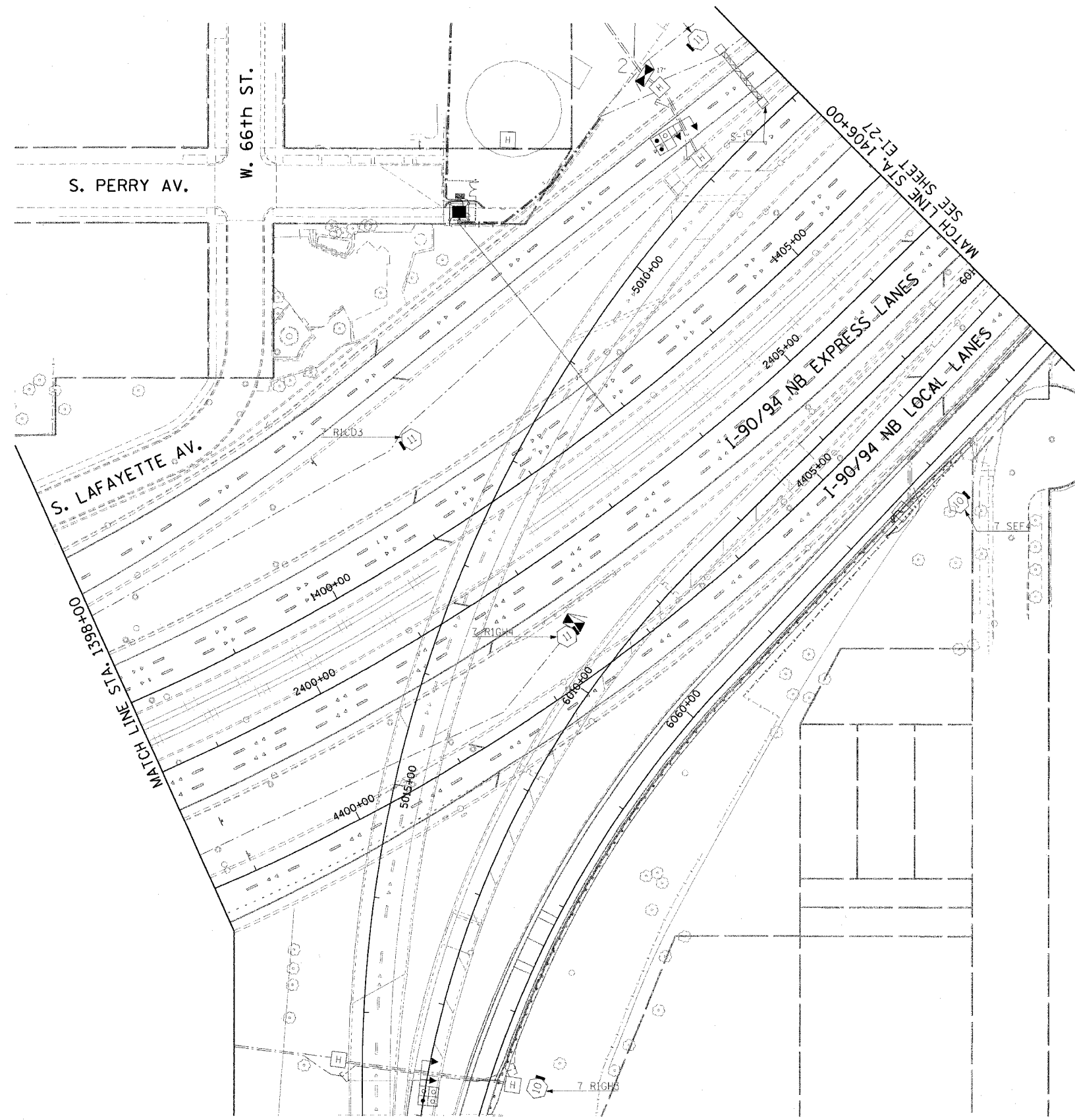
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DATE: June 9, 2006

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CHECKED BY: RMG

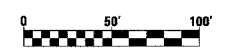


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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	312	177
STA. 1398+00.00		TO STA. 1406+00.00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
60A62		• (1919.15, 2021-922 PT1 & PT2) R-1		



NO WORK PROPOSED  
ON THIS SHEET



EI-26

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
**ELECTRICAL INFRASTRUCTURE PLAN**

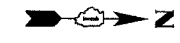
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DATE: June 9, 2006

DRAWN BY: HAR  
CHECKED BY: JPC

CTE | AECOM

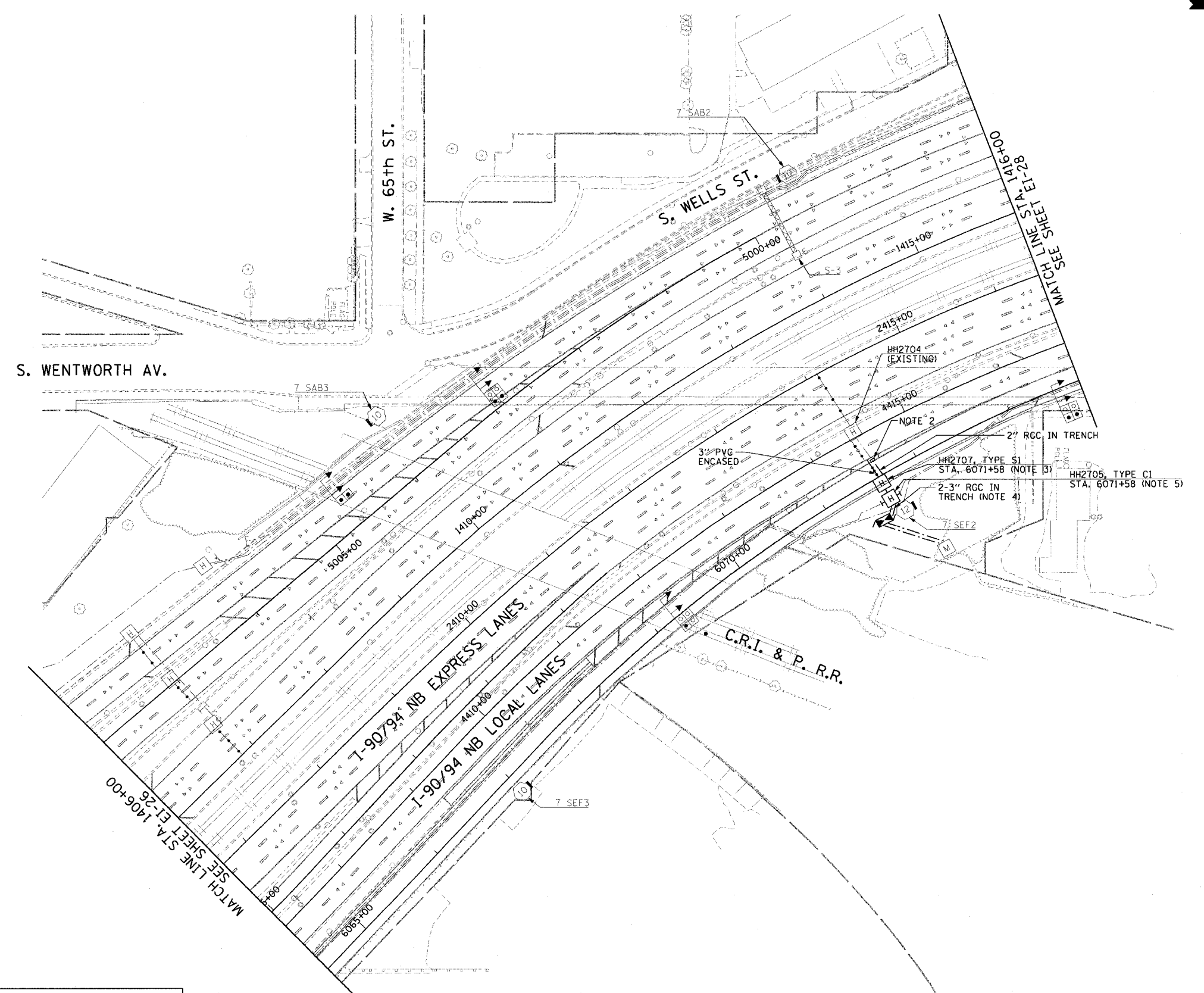
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	178
STA. 1406+00.00		TO STA. 1416+00.00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				

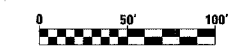


**NOTES:**

1. SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. THE CONTRACTOR SHALL LOCATE THE 2" RGC IN TRENCH INSTALLED IN IDOT CONTRACT NO. 62589 AND CONNECT THE PROPOSED CONDUIT.
3. SEE DRAWING EI-103 FOR TYPICAL INSTALLATION DETAILS OF HANDHOLE IN SHOULDER. PROVIDE 3" RGC FROM HH2707 TO HH2705.
4. CONTROLLER AND FOUNDATION ARE INSTALLED IN CONTRACT 62583. COORDINATE ROUTING OF 3" RGC WITH CONTRACT 62583.
5. SEE DRAWING EI-105 FOR TYPICAL HANDHOLE INSTALLATION DETAILS. PROVIDE TWO 3" RGC STUB-OUTS IN EAST WALL FOR CONTROLLER AND ONE 4" CNC STUB-OUT EACH IN NORTH AND SOUTH WALLS. CNC STUB-OUTS SHALL BE INCIDENTAL TO COST OF COMMUNICATION VAULT. PROVIDE ONE 3" RGC TO HH2707.
6. UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED NEW ITEMS AND WORK.



CTE | AECOM



EI-27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
**ELECTRICAL INFRASTRUCTURE PLAN**

SCALE: 1"=50'  
DATE: June 9, 2006

DRAWN BY: HAR  
CHECKED BY: JPC

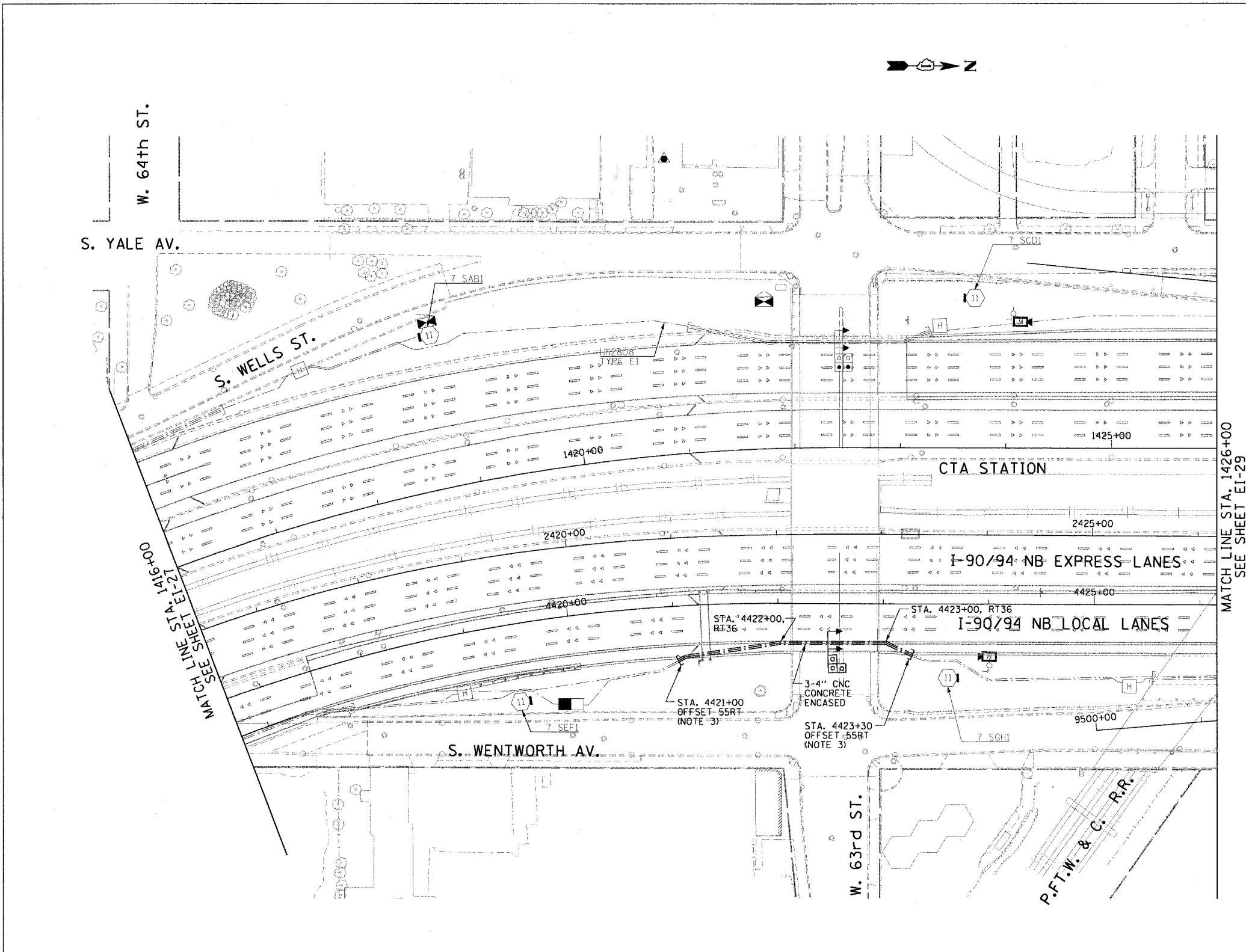
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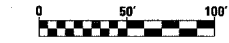
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	312	179
STA. 1416+00.00		TO STA. 1426+00.00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				

**NOTES:**

1. SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. SEE DRAWING EI-106 FOR ELECTRICAL DUCTBANK INSTALLATION DETAILS.
3. SEE DRAWING EI-107 FOR TYPICAL INSTALLATION DETAIL OF DUCTBANK AT AN EXISTING BRIDGE ABUTMENT. DUCTBANK SHALL BE TERMINATED AT THE STATIONS AND OFFSETS SHOWN APPROXIMATELY 30" BELOW FINISHED GRADE.
4. UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED NEW ITEMS AND WORK.



MATCH LINE STA. 1426+00  
SEE SHEET EI-29



EI-28

REVISIONS	
NAME	DATE

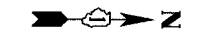
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
**ELECTRICAL INFRASTRUCTURE PLAN**

SCALE: 1"=50'  
 DATE: June 9, 2006  
 DRAWN BY: HAR  
 CHECKED BY: JPC



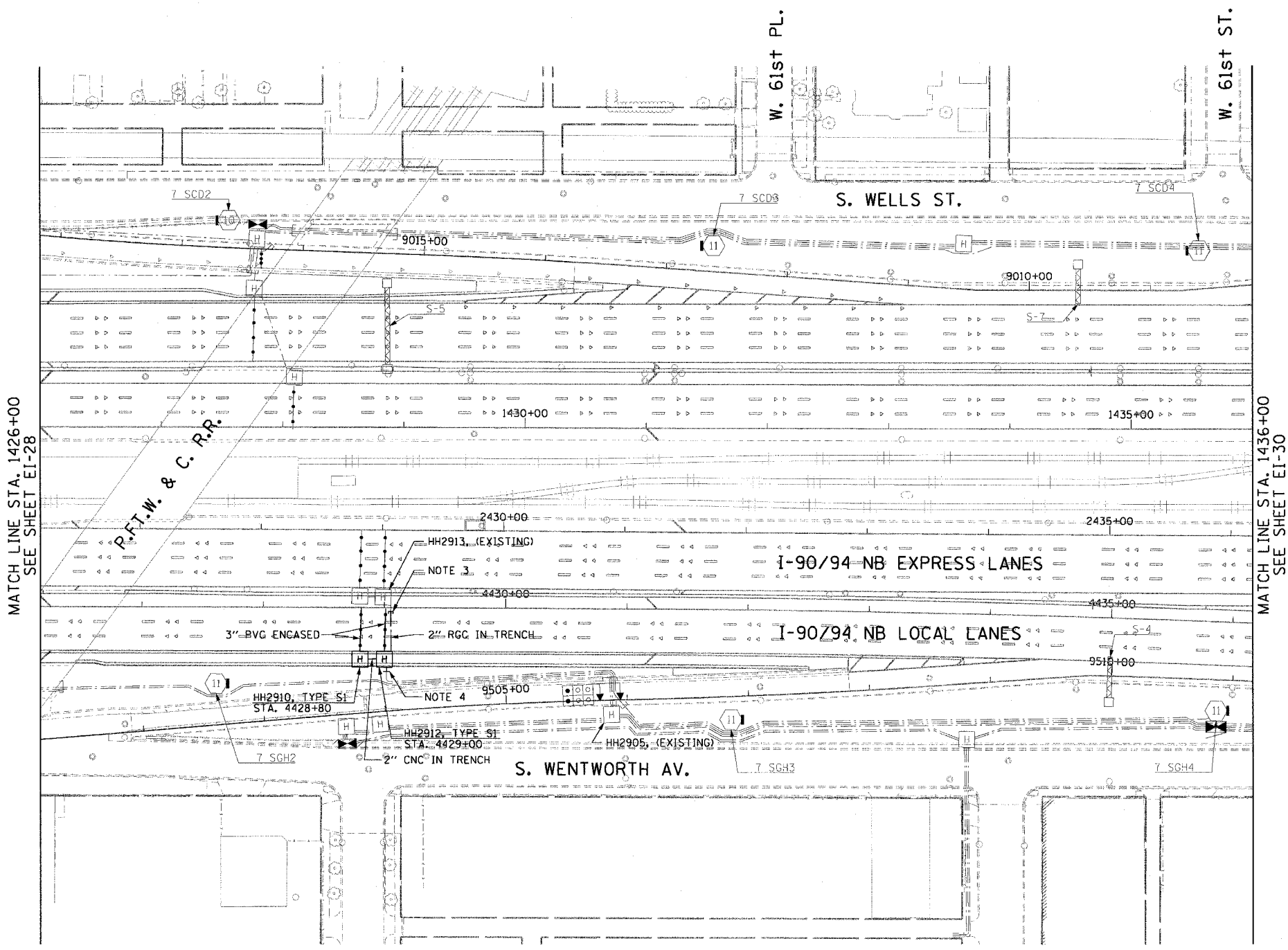
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	180
STA. 1426+00.00		TO STA. 1436+00.00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
60A62		(1919.15, 2021-922 PT1 & PT2) R-1		



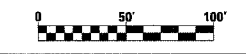
**NOTES:**

- SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- SEE DRAWINGS EI-102, EI-103, AND EI-104 FOR TYPICAL HANDHOLE INSTALLATION DETAILS.
- THE CONTRACTOR SHALL LOCATE THE EXISTING CONDUIT STUB-OUT INSTALLED IN IDOT CONTRACT NO. 62300 AND CONNECT THE PROPOSED CONDUIT.
- THE CONTRACTOR SHALL PROVIDE A 2" RGC SLEEVE IN THE EAST SIDE OF HH2912 FOR A 2" CNC DUCT FROM HH2905 BEING INSTALLED IN CONTRACT 62583. SLEEVE SHALL EXTEND 2' EAST OF CURB. COORDINATE WITH CONTRACT 62583.
- UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED NEW ITEMS AND WORK.



MATCH LINE STA. 1426+00  
SEE SHEET EI-28

MATCH LINE STA. 1436+00  
SEE SHEET EI-30



EI-29

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

**ELECTRICAL INFRASTRUCTURE PLAN**

SCALE: 1"=50'  
DATE: June 9, 2006

DRAWN BY: HAR  
CHECKED BY: JPC

CTE | AECOM

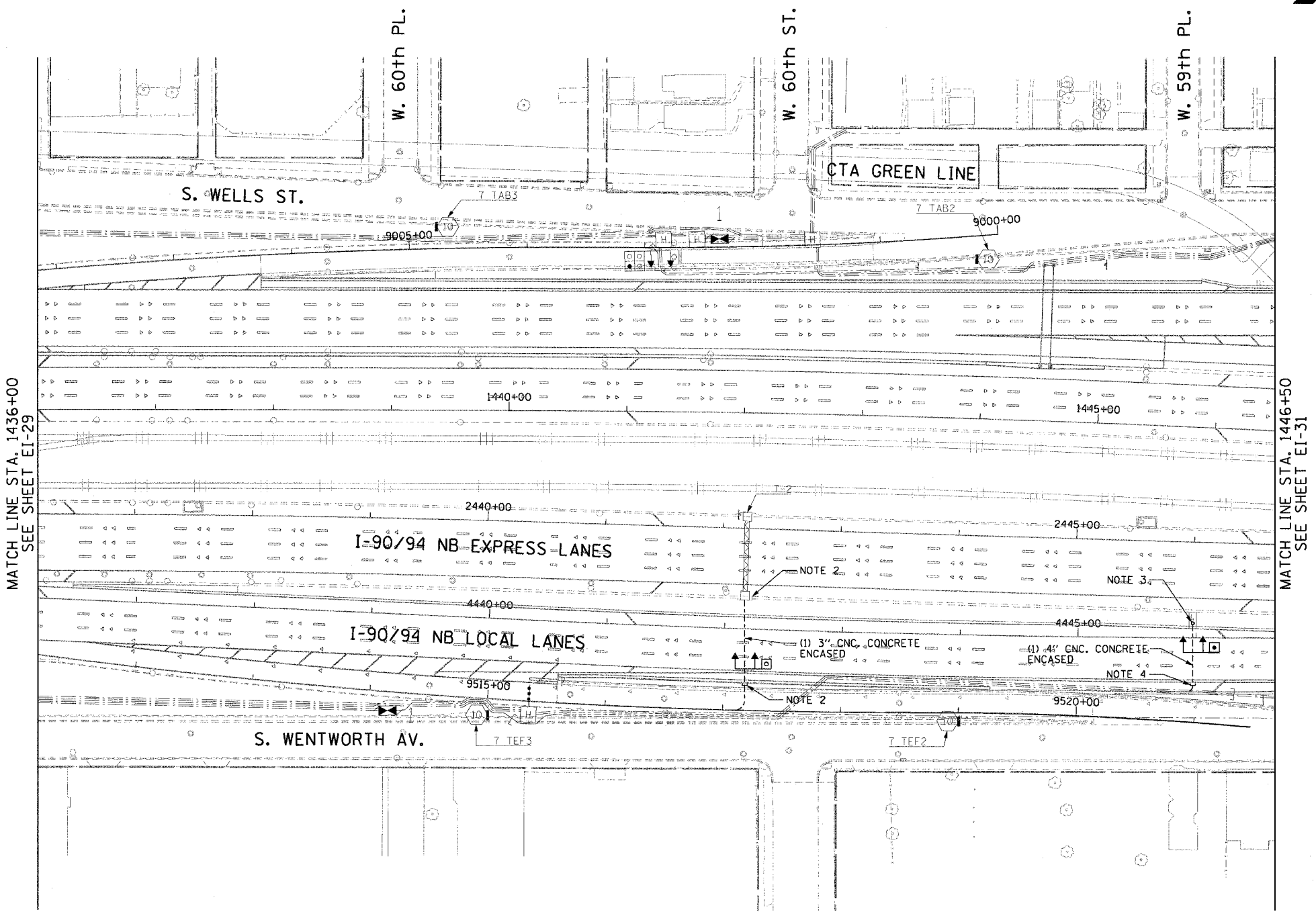
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	181
STA. 1436+00.00 TO STA. 1446+50.00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



**NOTES:**

- SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- THE CONTRACTOR SHALL LOCATE THE EXISTING CONDUIT STUB-OUTS INSTALLED IN IDOT CONTRACT NO. 62693 AND NO. 62300 AND CONNECT THE PROPOSED CONDUIT. PROVIDE 3" TO 4" REDUCER FITTING.
- STUB UP 4" CNC FOR FLASHING BEACON SIGN (FBS) BETWEEN THE TWO BARRIER WALLS. COORDINATE EXACT LOCATION WITH CONTRACT 62583. CONTRACT 62583 INSTALLS THE FBS.
- THE CONTRACTOR SHALL LOCATE THE EXISTING CONDUIT STUB-OUT INSTALLED IN IDOT CONTRACT 62693 AND CONNECT THE PROPOSED CONDUIT.
- UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED NEW ITEMS AND WORK.



MATCH LINE STA. 1436+00  
SEE SHEET EI-29

MATCH LINE STA. 1446+50  
SEE SHEET EI-31



EI-30

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
  
ELECTRICAL INFRASTRUCTURE PLAN  
  
SCALE: 1"=50'  
DATE: June 9, 2006  
DRAWN BY: HAR  
CHECKED BY: JPC

CTE | AECOM

06/02/2006 03:51:21 PM

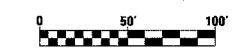
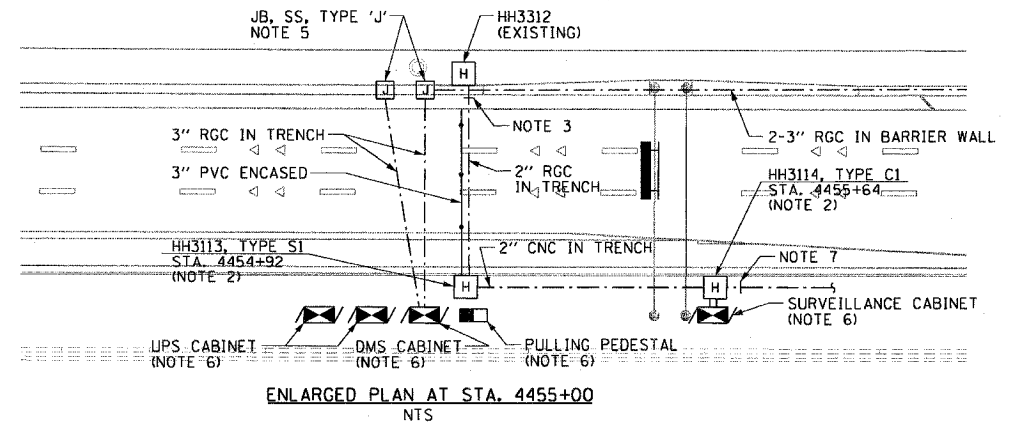
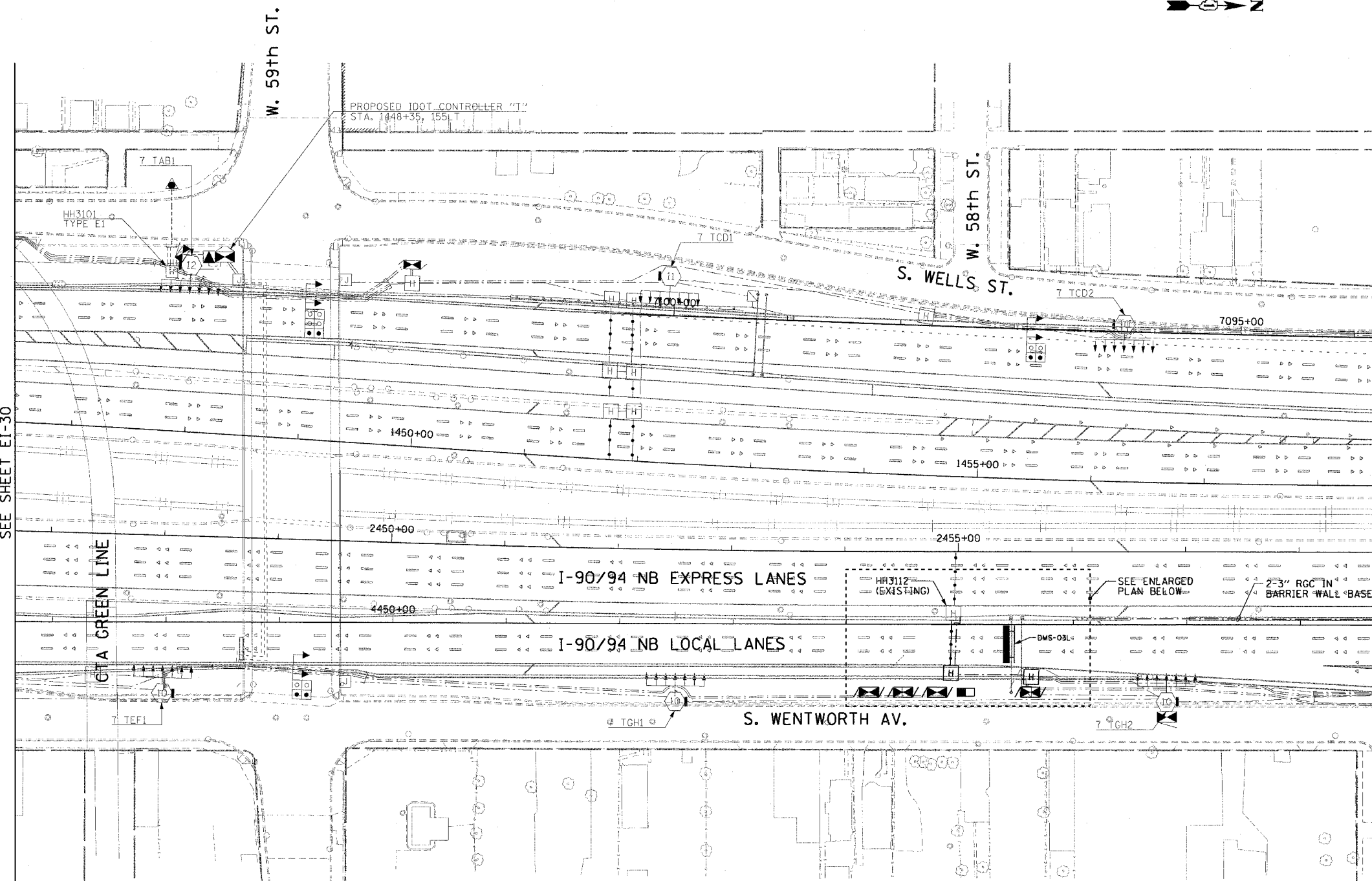
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	182
STA. 1446+50.00 TO STA. 1458+50.00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				

**NOTES:**

1. SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. SEE DRAWINGS EI-102, EI-103, AND EI-104 FOR TYPICAL HANDHOLE INSTALLATION DETAILS.
3. THE CONTRACTOR SHALL LOCATE THE EXISTING CONDUIT STUB-OUT INSTALLED IN IDOT CONTRACT NO. 62300 AND CONNECT THE PROPOSED CONDUIT.
4. UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED NEW ITEMS AND WORK.
5. SEE DRAWING EI-108 FOR JUNCTION BOX IN MEDIAN BARRIER WALL INSTALLATION DETAILS.
6. CABINETS AND PULLING PEDESTALS ARE INSTALLED IN CONTRACT 62583.
7. THE CONTRACTOR SHALL PROVIDE A 2" CNC SLEEVE IN THE NORTH SIDE OF HH3114 FOR A 2" CNC DUCT INSTALLED IN CONTRACT 62583.

MATCH LINE STA. 1446+50  
SEE SHEET EI-30

MATCH LINE STA. 1458+50  
SEE SHEET EI-32



EI-31

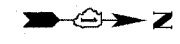
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
**ELECTRICAL INFRASTRUCTURE PLAN**  
SCALE: 1"=50'  
DATE: June 9, 2006  
DRAWN BY: HAR  
CHECKED BY: JPC

CTE | AECOM

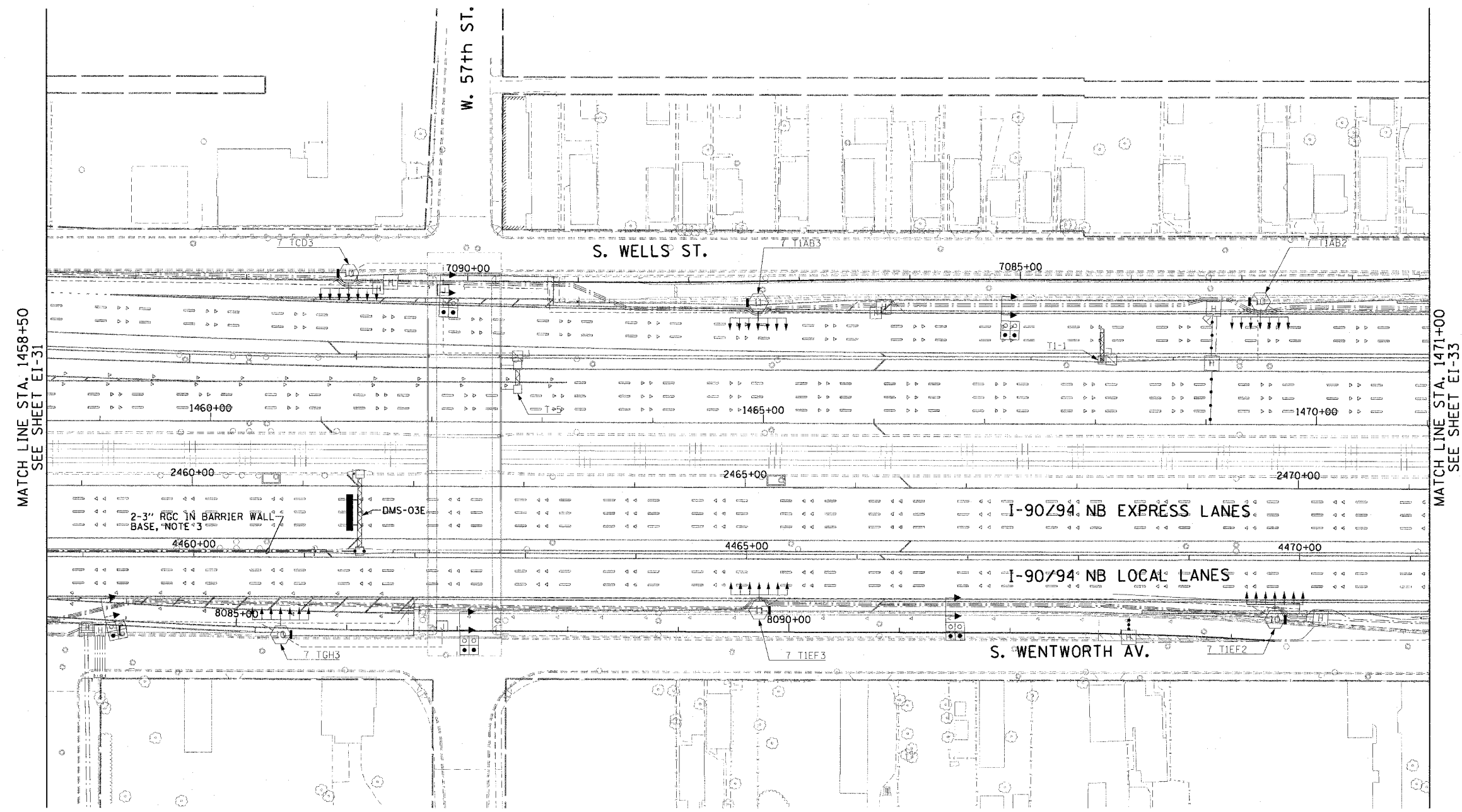
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	183
STA. 1458+50.00		TO STA. 1471+00.00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



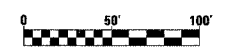
**NOTES:**

1. SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED NEW ITEMS AND WORK.
3. SEE DRAWING EI-108 FOR CONDUITS ROUTED TO DMS STRUCTURE.



MATCH LINE STA. 1458+50  
SEE SHEET EI-31

MATCH LINE STA. 1471+00  
SEE SHEET EI-33



EI-32

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
**ELECTRICAL INFRASTRUCTURE PLAN**

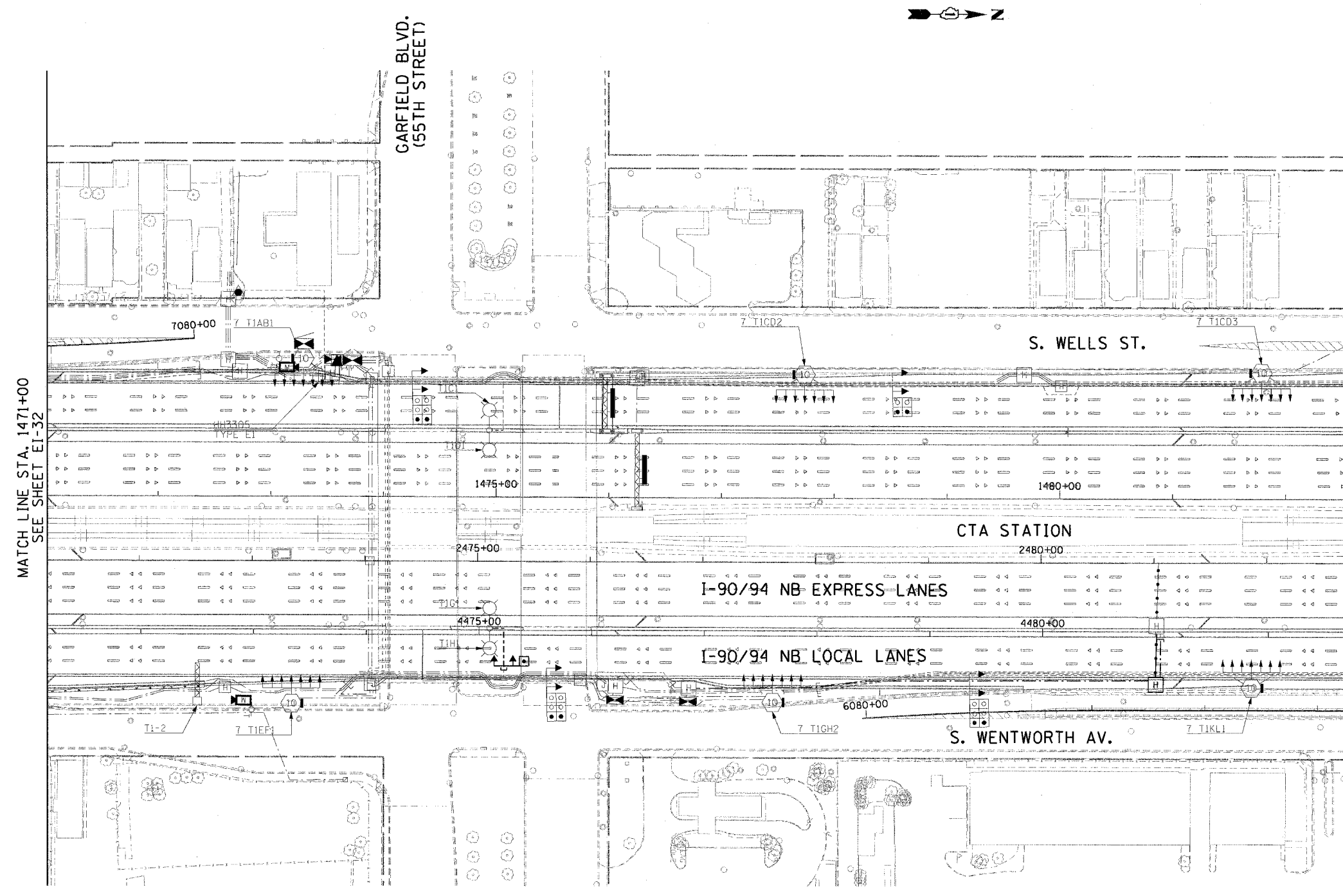
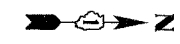
SCALE: 1"=50'  
DATE: June 9, 2006

DRAWN BY: HAR  
CHECKED BY: JPC

CTE | AECOM

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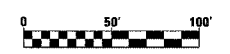
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	184
STA. 1471+00.00		TO STA. 1482+50.00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
60A62		• (1919.15, 2021-922 PT1 & PT2) R-1		



MATCH LINE STA. 1471+00  
SEE SHEET EI-32

NO WORK PROPOSED  
ON THIS SHEET

CTE | AECOM



EI-33

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
  
ELECTRICAL INFRASTRUCTURE PLAN  
  
SCALE: 1"=50'  
DATE: June 9, 2006  
DRAWN BY: HAR  
CHECKED BY: JPC

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	185
STA. 60A62		TO STA. 1528+10		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
• (1919.15, 2021-922 PT1 & PT2) R-1				

ELECTRICAL SYMBOLS FOR PROPOSED WORK

GENERAL ELECTRICAL CALLOUTS

- LIGHT TOWER FOUNDATION  
NUMBER INSIDE HEXAGON INDICATES TOWER TYPE  
HANDHOLE LOCATION AS INDICATED  
TOWER INSTALLED BY OTHERS,  
UNDER A SEPARATE CONTRACT

TYPE	TOWER HEIGHT
10	100 FEET
11	110 FEET
12	120 FEET

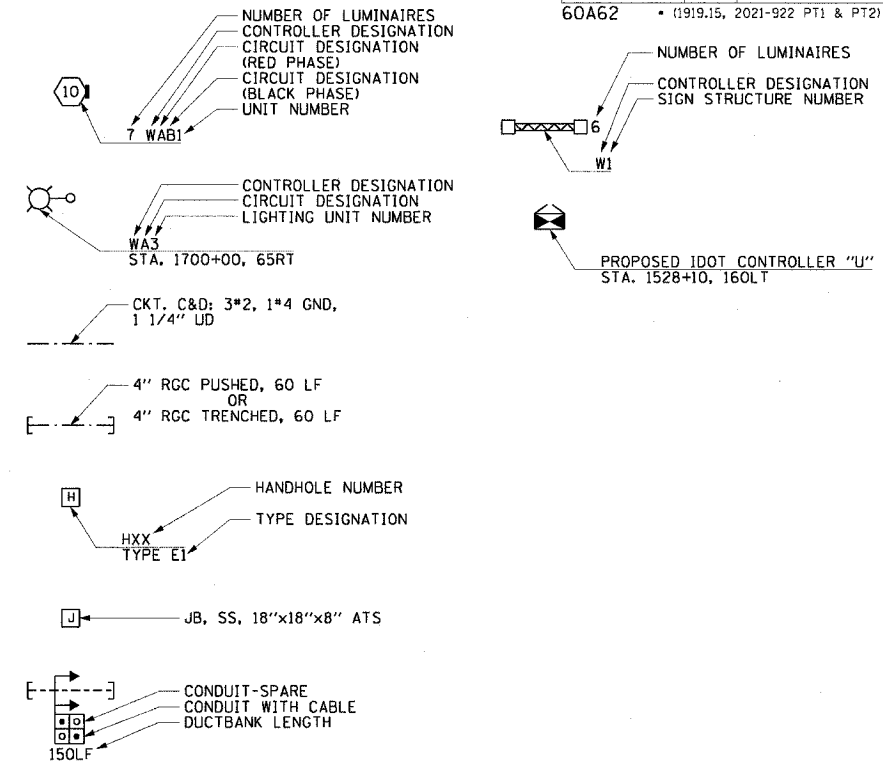
- LIGHT POLE FOUNDATION  
POLE INSTALLED BY OTHERS  
UNDER A SEPARATE CONTRACT
- TEMPORARY LIGHTING UNIT INCLUDING 60 FOOT  
WOOD POLE (CLASS 4), 8'-0" MAST ARM WITH  
400 WATT HPS LUMINAIRE
- ELECTRIC HANDHOLE; TYPE AS INDICATED

  - TYPE E1: PC CONCRETE, 21.5"x21.5"x30"  
IDOT STANDARD 814001
  - TYPE E2: PC CONCRETE-HEAVY DUTY, 22"x22"x30",  
IDOT STANDARD 814001
  - TYPE C1: COMMUNICATIONS VAULT
  - TYPE S1: PC CONCRETE-HEAVY DUTY, 22"x22"x36"
  - TYPE S2: PC CONCRETE-HEAVY DUTY SPECIAL,  
30"x30"x36"

- JUNCTION BOX: TYPE AND SIZE AS INDICATED  
ON PLANS
- PULL BOX: TYPE AND SIZE AS INDICATED  
ON PLANS
- TELEPHONE CONNECTION
- FIBER OPTIC COMMUNICATIONS HUT
- LIGHTED SIGN STRUCTURE-CANTILEVER TYPE  
(NUMBER OF FLUORESCENT FIXTURES AS  
INDICATED WITH ASSOCIATED DISCONNECT  
SWITCH - TYP.) (N.I.C.)

- LIGHTED SIGN STRUCTURE-TRUSS TYPE
- TEMPORARY LIGHTED SIGN STRUCTURE-TRUSS  
TYPE, QUANTITY OF LUMINAIRES AS SHOWN  
ON SIGNING PLANS
- LIGHTED SIGN STRUCTURE-BRIDGE MOUNT TYPE
- DYNAMIC MESSAGE SIGN
- FLASHING BEACON SIGN
- CLOSED CIRCUIT TELEVISION CAMERA
- MICROWAVE DETECTOR
- DETECTOR LOOP
- CONTROLLER CABINET FOUNDATION
- CONTROLLER CABINET FOUNDATION: SURVEILLANCE
- CONTROLLER CABINET FOUNDATION: SURVEILLANCE,  
TYPE 334
- RAMP METER SIGNAL POLE/HEAD FOUNDATION
- RAMP METER FLASHER FOUNDATION
- TEMPORARY WOOD POLE, 50 FOOT LENGTH  
(10 FOOT BURIED, 40 FOOT INSTALLED HEIGHT)
- HIGHWAY ADVISORY RADIO ANTENNA
- ELECTRIC UTILITY POLE
- CCTV CAMERA POLE
- PULLING PEDESTAL

- POLE MOUNTED ELECTRIC UTILITY TRANSFORMER(S)
- PAD MOUNTED ELECTRIC UTILITY TRANSFORMER
- GROUND ROD
- MAIN SERVICE FUSED DISCONNECT SWITCH  
(RATING AS INDICATED)
- EXISTING RACEWAY OR CONDUIT RUN  
AS INDICATED ON PLANS
- RACEWAY EMBEDDED IN STRUCTURE
- RACEWAY OR DIRECT BURIAL CABLE  
UNDERGROUND WITHOUT ENCASEMENT
- RIGID GALVANIZED STEEL CONDUIT  
SLEEVE, TRENCHED OR PUSHED
- UNDERGROUND REINFORCED CONCRETE ENCASED  
DUCTBANK, UNO. (NUMBER, TYPE, AND SIZE OF  
DUCTS AS SHOWN)
- RACEWAY OR CONDUIT IN TRENCH, TYPE AS  
INDICATED ON PLANS
- AERIAL CABLE, TYPE AS INDICATED ON PLANS
- CONDUIT TURNED DOWN
- CONDUIT TURNED UP



ELECTRICAL SYMBOLS FOR EXISTING CONDITIONS

- EXISTING LIGHTING UNIT, TWIN LUMINAIRE
- EXISTING LIGHTING UNIT
- EXISTING TEMPORARY LIGHTING UNIT
- EXISTING CDOT LIGHTING UNIT
- EXISTING UNDERPASS LUMINAIRE
- EXISTING ELECTRIC HANDHOLE
- EXISTING JUNCTION BOX
- EXISTING PULL BOX
- EXISTING TELEPHONE CONNECTION
- EXISTING FIBER OPTIC COMMUNICATIONS HUT
- EXISTING ELECTRIC HANDHOLE/MANHOLE

- EXISTING CDOT ELECTRIC HANDHOLE/MANHOLE
- EXISTING LIGHTED SIGN STRUCTURE-  
CANTILEVER TYPE
- EXISTING LIGHTED SIGN STRUCTURE-TRUSS TYPE
- EXISTING LIGHTED SIGN STRUCTURE-  
BRIDGE MOUNT TYPE
- EXISTING DYNAMIC MESSAGE SIGN
- EXISTING FLASHING BEACON SIGN
- EXISTING CLOSED CIRCUIT TELEVISION CAMERA
- EXISTING MICROWAVE DETECTOR
- EXISTING DETECTOR LOOP
- EXISTING LIGHTING CONTROLLER, DUPLEX
- EXISTING CONTROLLER CABINET
- EXISTING RAMP METER SIGNAL POLE/HEAD
- EXISTING PULLING PEDESTAL

- EXISTING RAMP METER FLASHER
- EXISTING HIGHWAY ADVISORY RADIO ANTENNA
- EXISTING CCTV CAMERA POLE
- EXISTING UTILITY SERVICE CONNECTION,  
POLE MOUNTED
- EXISTING UTILITY SERVICE CONNECTION,  
PAD MOUNTED
- EXISTING CONCEALED CONDUIT IN STRUCTURE
- EXISTING EXPOSED CONDUIT
- EXISTING RACEWAY OR DIRECT BURIED CABLE  
WITHOUT ENCASEMENT
- EXISTING CONCEALED CONDUIT UNDERGROUND,  
TRENCHED OR PUSHED
- EXISTING ELECTRIC CABLE IN CONDUIT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

ELECTRICAL SYMBOLS

SCALE: NOT TO SCALE  
 DATE: June 9, 2006

DRAWN BY: HAR  
 CHECKED BY: JPC

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	312	186
STA.		TO STA.		
60A62		* (1919.15, 2021-922 PT1 & PT2) R-1		

ABBREVIATIONS

A	AMPERES	ID	INNERDUCT	WB	WESTBOUND
AC	ALTERNATING CURRENT	IDOT	ILLINOIS DEPARTMENT OF TRANSPORTATION	WM	WALL MOUNTED
A/C	AERIAL CABLE	IN	INCHES	WP	WOOD POLE
AFG	ABOVE FINISHED GRADE	J, JB	JUNCTION BOX	XFMR	TRANSFORMER
ANT	ANTENNA	KVA	KILOVOLT-AMPERE		
AOBE	AS ORDERED BY THE ENGINEER	KW	KILOWATT		
ASPH	ASPHALT	LF	LINEAR FEET		
ATS	ATTACHED TO STRUCTURE	LP	LIGHT POLE		
AVE	AVENUE	L SUM	LUMP SUM		
BHD	BULKHEAD	LT	LEFT		
BIT	BITUMINOUS	M	METER		
BLK	BLOCK	MA	MAST ARM		
BR	BRIDGE	MD	MICROWAVE DETECTOR		
C	CONDUIT, CONDUCTOR	MM	MULTI-MODE		
CAB	CABINET	MW	MESSENGER WIRE		
CBW	CONCRETE BLOCK WALL	NB	NORTHBOUND		
CC	COMMUNICATIONS CENTER	NIC	NOT IN CONTRACT		
CCTV	CLOSED CIRCUIT TELEVISION	NM	NONMETALLIC		
CDOT	CDOT-CHICAGO DEPARTMENT OF TRANSPORTATION	NO	NUMBER		
COMED	COMED	NTS	NOT TO SCALE		
CKT	CIRCUIT	OH	OVERHEAD		
CLF	CHAIN LINK FENCE	PL	PROPERTY LINE		
CNC	COILABLE NONMETALLIC CONDUIT	PH	PHASE		
COMM	COMMUNICATIONS	PIN	PROJECT IDENTIFICATION NUMBER		
CONC	CONCRETE	PNL	PANEL		
CONST	CONSTRUCTION	PROP	PROPOSED		
CORR	CORRUGATED	PTZ	PAN-TILT-ZOOM		
CW	CONCRETE WALL	PEC	POLYETHYLENE CONDUIT		
☺	CENTERLINE	PVC	POLYVINYL CHLORIDE		
DB	DIRECT BURIED	PVCC	POLYVINYL CHLORIDE COATED		
DC	DIRECT CURRENT	R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED UNO)		
DF	DARK FIBER	RC	REINFORCED CONCRETE		
DIA	DIAMETER	RD	ROAD		
DMS	DYNAMIC MESSAGE SIGN	RGC	RIGID GALVANIZED STEEL CONDUIT		
DWG	DRAWING(S)	RM	RAMP METER		
E	EXISTING UNIT TO REMAIN	ROW	RIGHT OF WAY		
EA	EACH	RR	EXISTING UNIT TO BE REMOVED AND REINSTALLED		
EB	EASTBOUND	RT	RIGHT		
ECA	ELECTRIC CABLE ASSEMBLY	RW	RETAINING WALL		
EL	ELEVATION	SB	SOUTHBOUND		
EM	EXISTING UNIT TO BE MODIFIED (e.g. NEW LUMINAIRE, BALLAST, OR MAST ARM)	SH	SHEET		
ER	EXISTING RELOCATED UNIT	SM	SINGLE MODE		
ET	EXISTING TEMPORARY UNIT TO REMAIN OR MODIFIED	SS	STAINLESS STEEL		
ETP	EMERGENCY TRAFFIC PATROL	ST	STREET		
ETR	EXISTING TEMPORARY RELOCATED UNIT	STA	STATION		
EXCAV	EXCAVATION	STD	STANDARD		
F, FT	FOOT, FEET	STL	STEEL		
FDN	FOUNDATION	STRUCT	STRUCTURE		
FO	FIBER OPTIC	SURF	SURFACE		
GM	GROUND MOUNTED	SURV	SURVEILLANCE		
GND, GRD	GROUND	SW	SIDEWALK		
GR	GUARD RAIL	T	TEMPORARY		
GSC	GALVANIZED STEEL CONDUIT	TAN	TANGENT		
HAR	HIGHWAY ADVISORY RADIO	TC	TRAY CABLE		
HD	HEAVY DUTY	TEL	TELEPHONE		
HH	HANDHOLE	TS	TRAFFIC SIGNAL		
HPS	HIGH PRESSURE SODIUM	TSC	TRAFFIC SYSTEMS CENTER		
HYD	HYDRANT	TYP	TYPICAL		
I	INTERSTATE	UD	UNIT DUCT		
		UND	UNDERDRAIN		
		UNO	UNLESS NOTED OTHERWISE		
		V	VOLT		
		W	WATT		

EI-101

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
  
ELECTRICAL ABBREVIATIONS

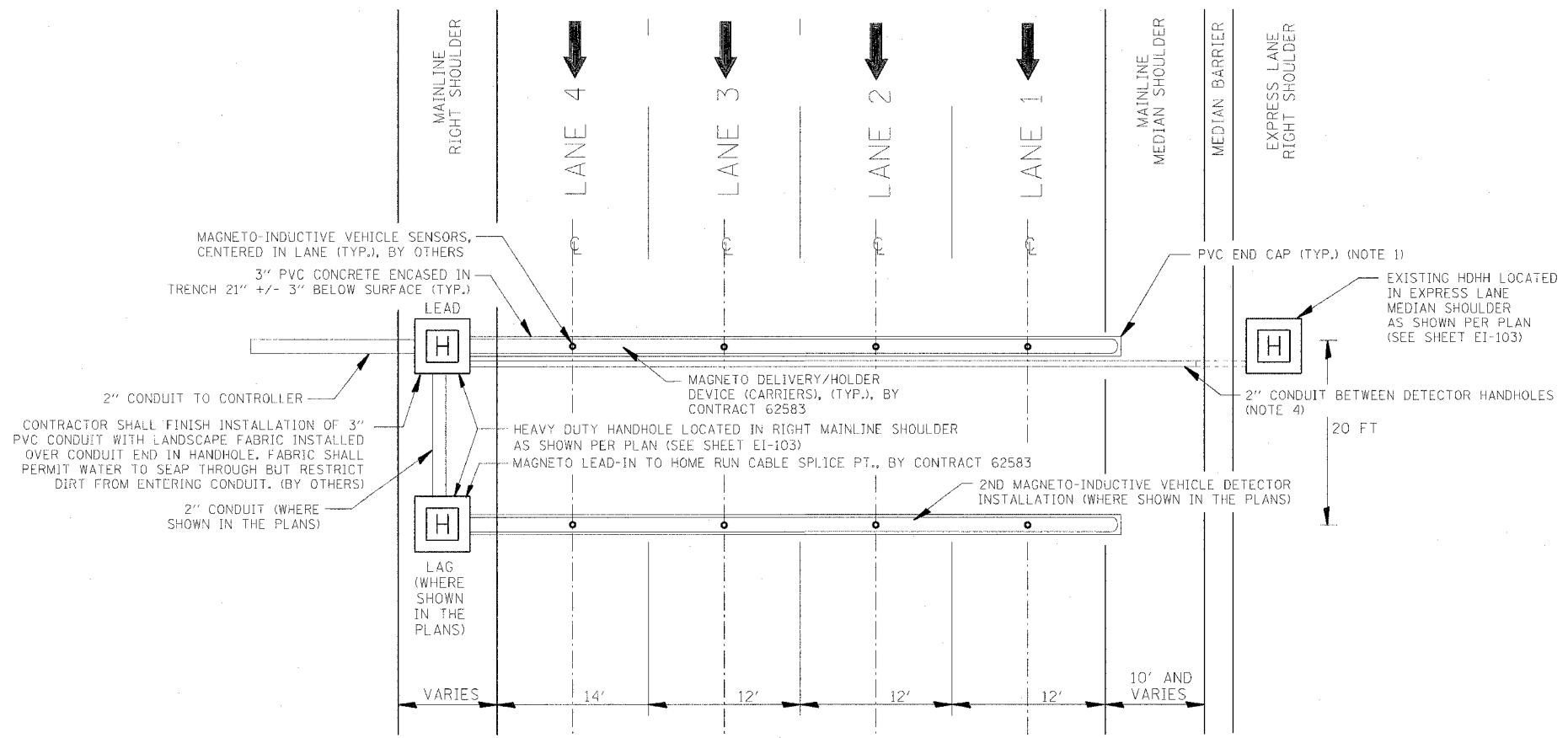
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DATE: June 9, 2006      CHECKED BY: JPC



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	312	187
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
60A62	* (1919.15, 2021-922 PT1 & PT2) R-1			

**NOTES:**

1. CONDUIT END CAP TO BE PRESS FITTED (NO ADHESIVE).
2. CONDUIT TO EXTEND 2-3 IN. INTO HANDHOLE.
3. FOR 3" PVC CONCRETE ENCASED IN TRENCH DETAIL, SEE SHEET EI-103. FOR HANDHOLE DETAIL, SEE SHEET EI-104.
4. CONNECT PROPOSED 2" RGC TO EXISTING 2" RGC (SEE ELECTRICAL INFRASTRUCTURE SHEETS FOR EXISTING CONDUIT LOCATIONS AND ELEVATIONS).



**DAN RYAN TYPICAL MULTI-LANE CROSS SECTION WITH NON-INVASIVE MAGNETO-INDUCTIVE VEHICLE SENSOR (PROBE) INSTALLED IN ALL LANES**



REVISIONS	
NAME	DATE

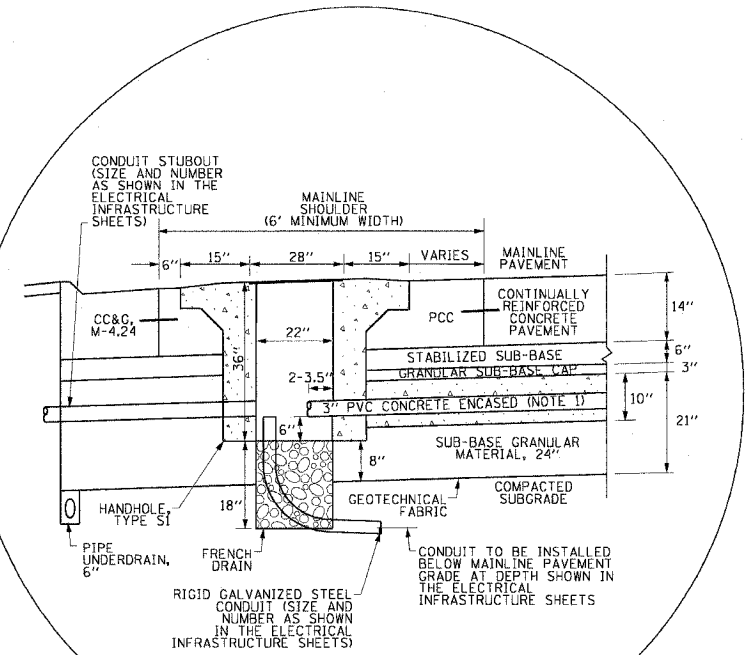
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
**TYPICAL LOCAL LANE  
 DETECTOR STATION LAYOUT**

SCALE: NOT TO SCALE  
 DATE: June 9, 2006  
 DRAWN BY: HAR  
 CHECKED BY: JPC

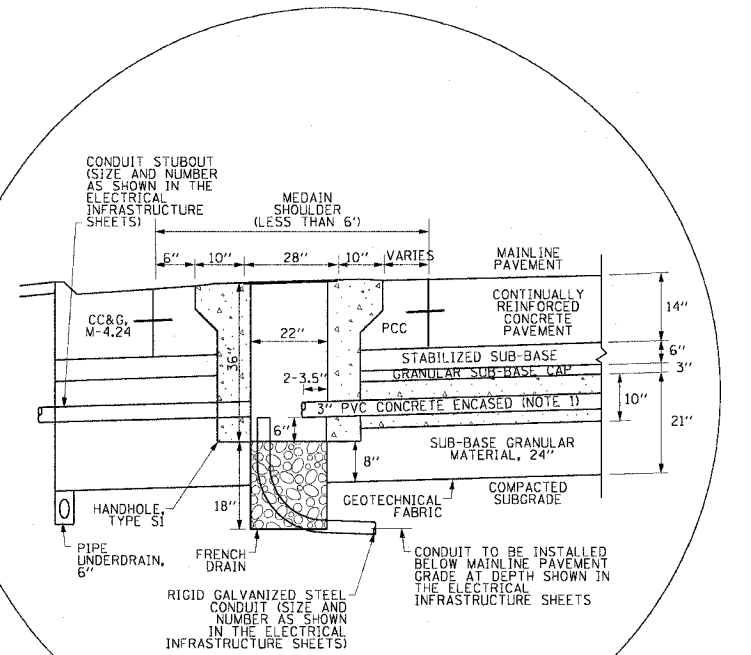
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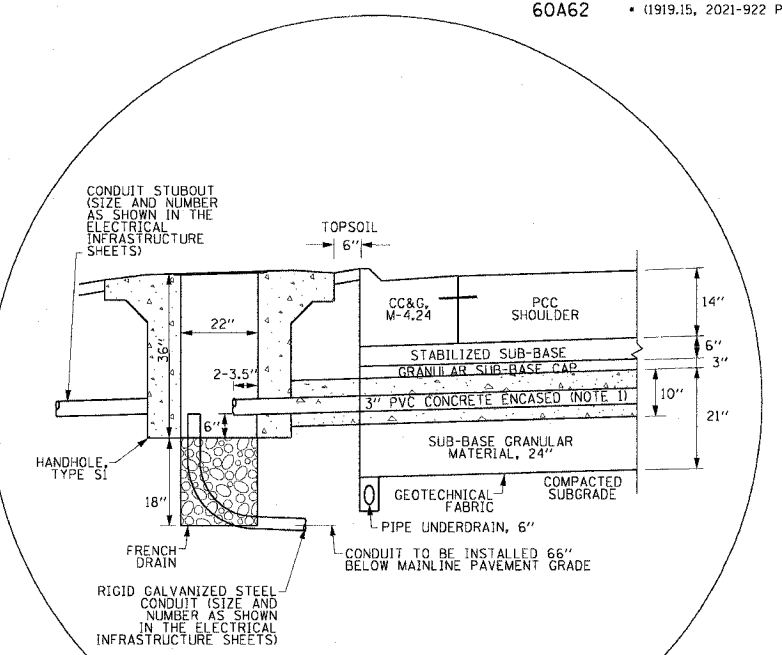
F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	188
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
60A62		(1919.15, 2021-922 PT1 & PT2) R-1		



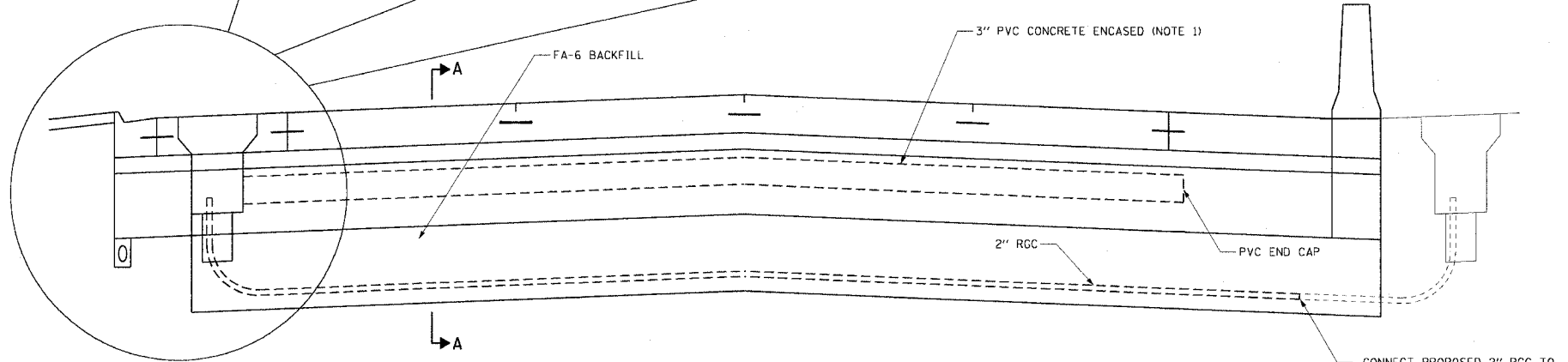
HANDHOLE INSTALLATION IN MAINLINE SHOULDER



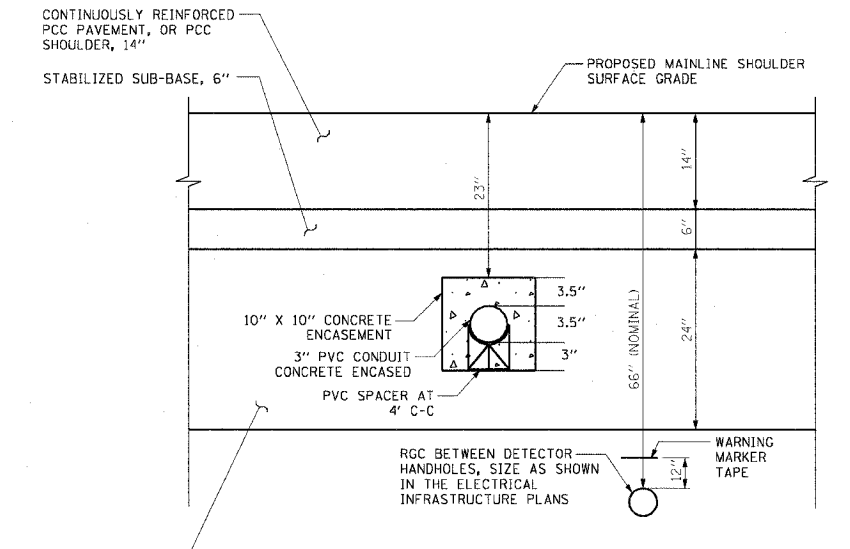
HANDHOLE (SPECIAL) INSTALLATION IN MAINLINE SHOULDER



HANDHOLE INSTALLATION BEHIND MAINLINE CURB



TYPICAL MAINLINE DETECTOR INSTALLATION



SECTION A-A  
TYPICAL DETECTOR CONDUIT INSTALLATION

- NOTES
1. 3" PVC CONCRETE ENCASED CONDUIT IS REQUIRED ONLY WHERE SHOWN ON THE PLAN DRAWINGS. WHEN INSTALLED, THE CONDUIT MUST MAINTAIN THE SAME ANGLE AS THE PAVEMENT THROUGHOUT ITS ENTIRE LENGTH.
  2. FOR HANDHOLE DETAIL SEE SHEET EI-104.
  3. WHEN INSTALLING CONDUIT NEAR OR THROUGH UNDERDRAIN GEOTECHNICAL FABRIC, THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY AND UNIFORMITY OF THE UNDERDRAIN FABRIC THROUGH OVERLAP TO THE SATISFACTION OF THE ENGINEER.

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REVISIONS	
NAME	DATE

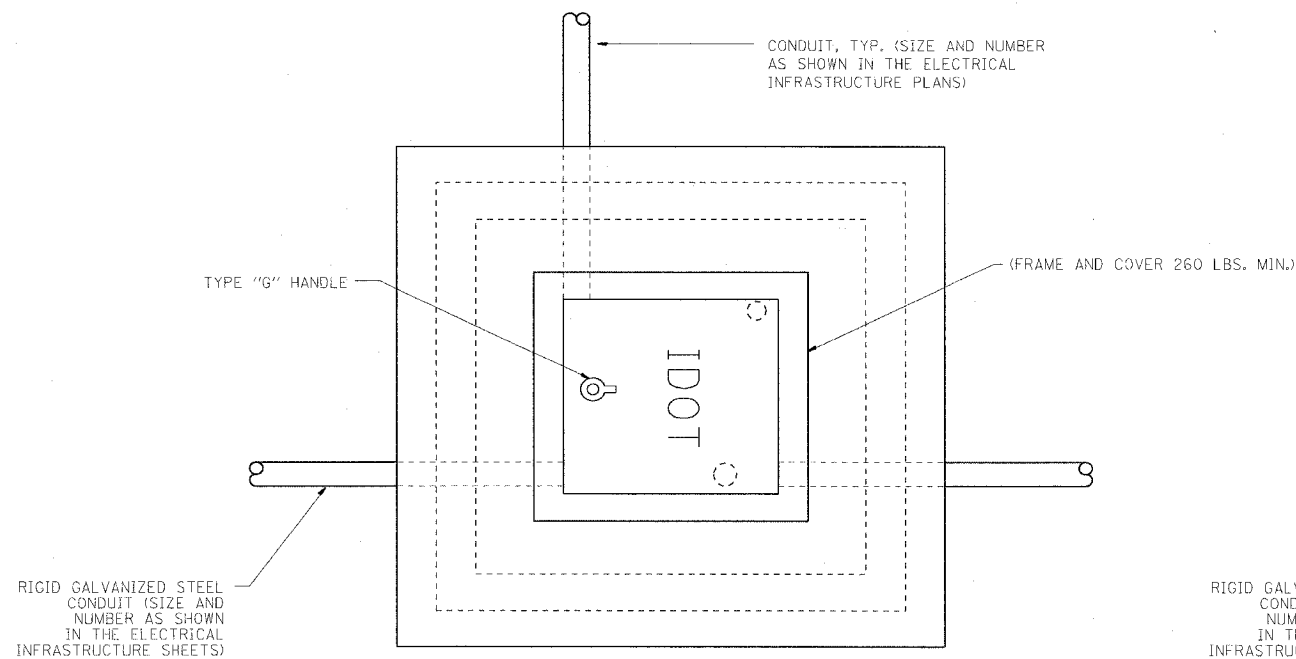
ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
TYPICAL DETECTOR  
INSTALLATION

SCALE: NOT TO SCALE  
DATE: June 9, 2006  
DRAWN BY: HAR  
CHECKED BY: JPC

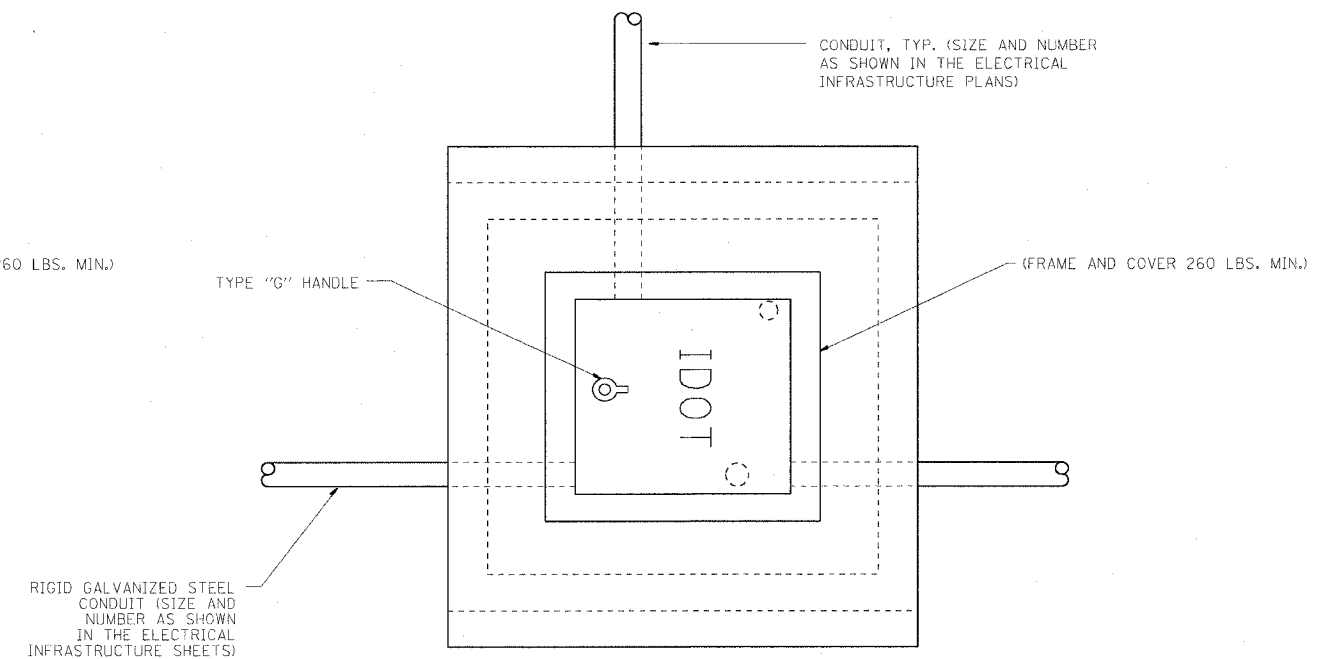
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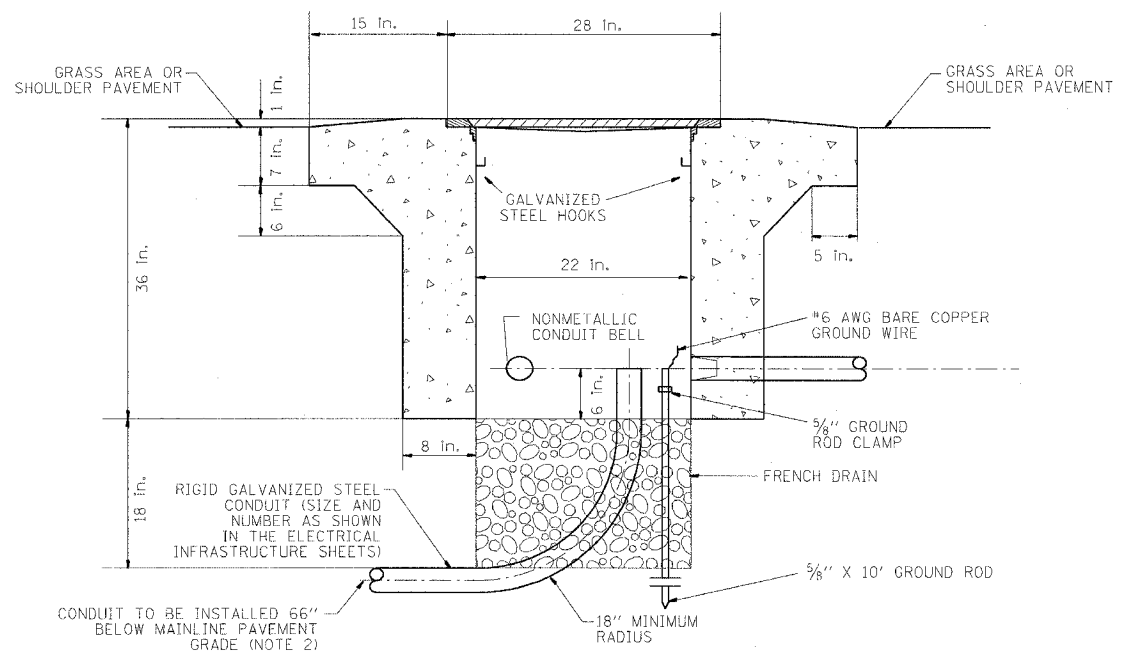
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90/94	*	COOK	312	189
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
60A62		• (1919.15, 2021-922 PT1 & PT2) R-1		



PLAN



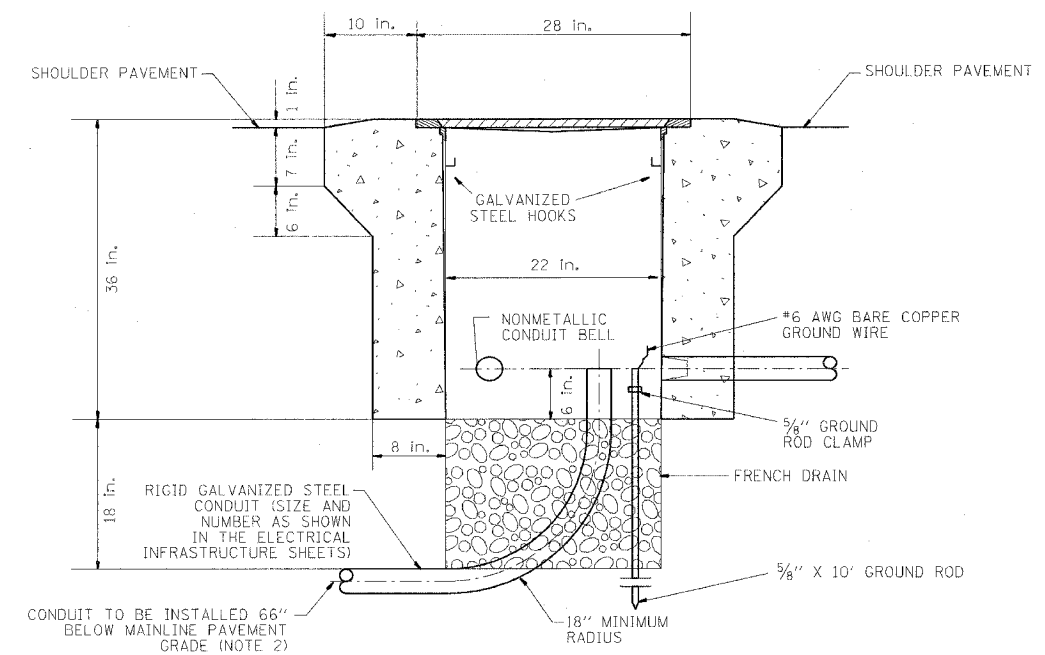
PLAN



ELEVATION

**PC CONCRETE  
HEAVY DUTY HANDHOLE, TYPE S1**

(FOR INSTALLATION IN SHOULDER WIDER THAN 6' OR BEHIND PAVED AREA)



ELEVATION

**PC CONCRETE  
HEAVY DUTY HANDHOLE, TYPE S1 (SPECIAL)**

(FOR INSTALLATION IN SHOULDER NARROWER THAN 6', 4' MINIMUM WIDTH)

- NOTE:**
1. ALL METALLIC ELEMENTS SHALL BE GROUND IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC), SECTION 250. GROUNDING METAL COVERS AND OTHER EXPOSED CONDUCTIVE SURFACES SHALL BE BONDED IN ACCORDANCE WITH NEC ARTICLE 250.96 (A).
  2. CONDUIT TO BE INSTALLED BELOW MAINLINE PAVEMENT WHERE SHOWN IN THE ELECTRICAL INFRASTRUCTURE PLANS (SEE SHEET EI-103).

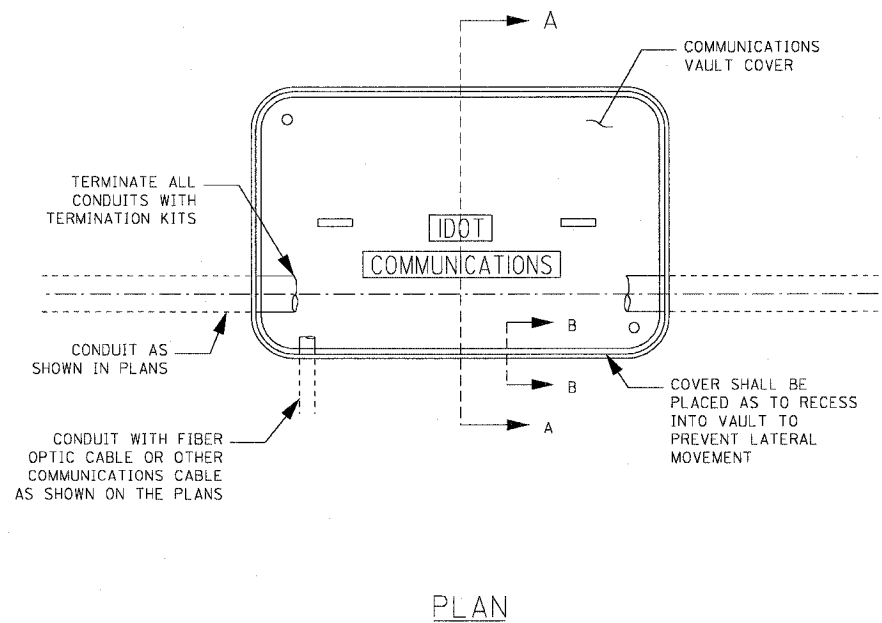
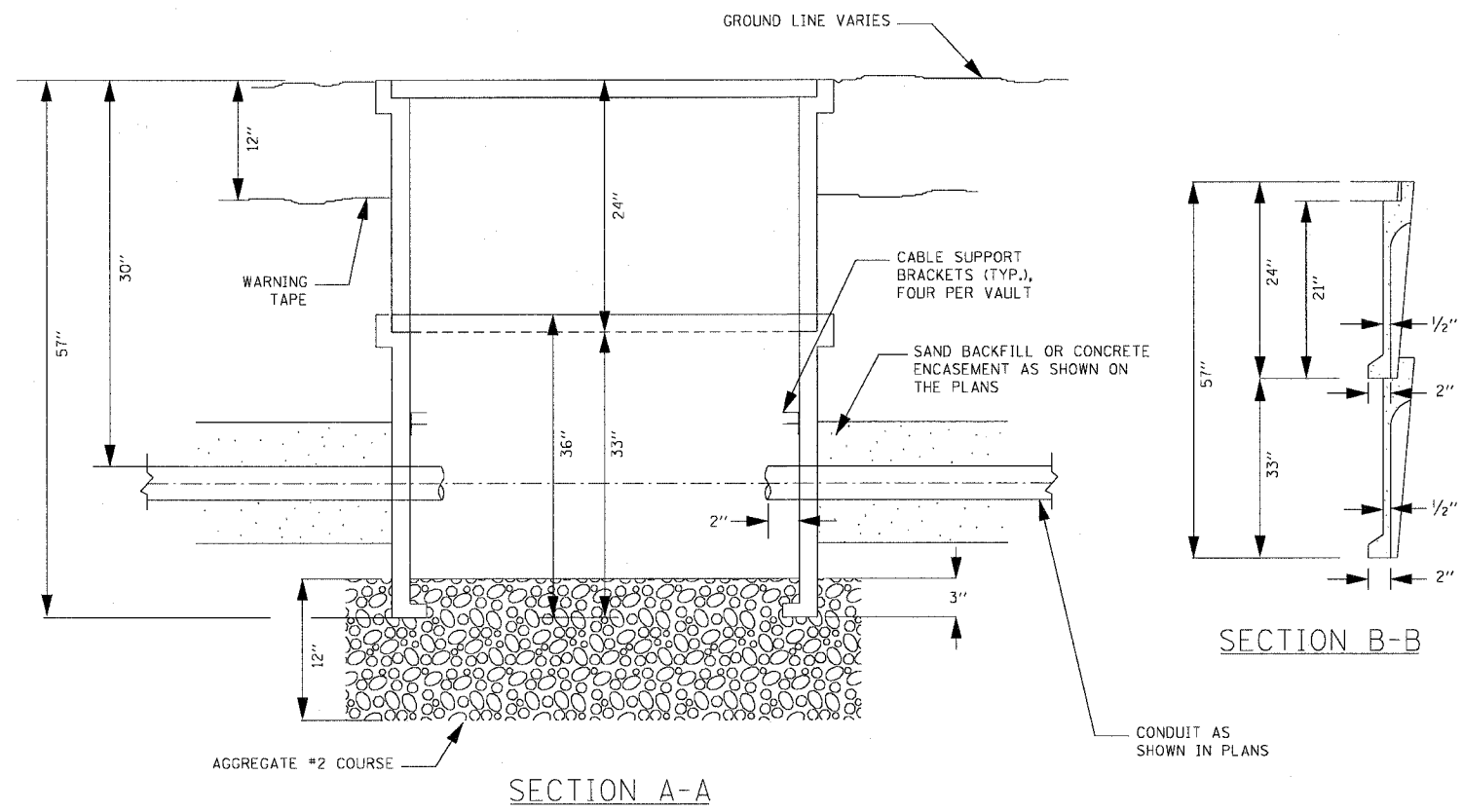
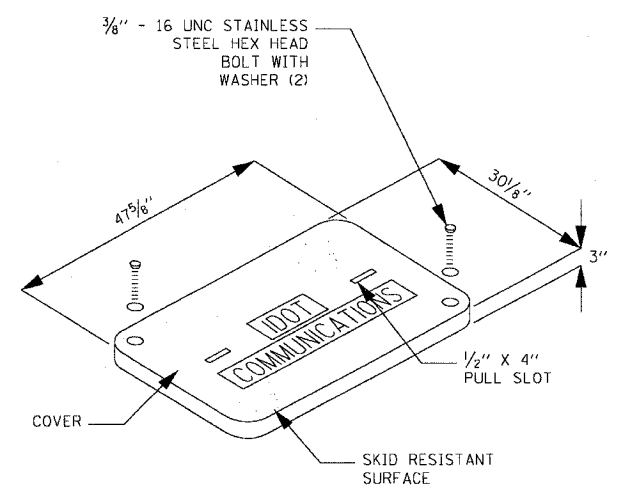
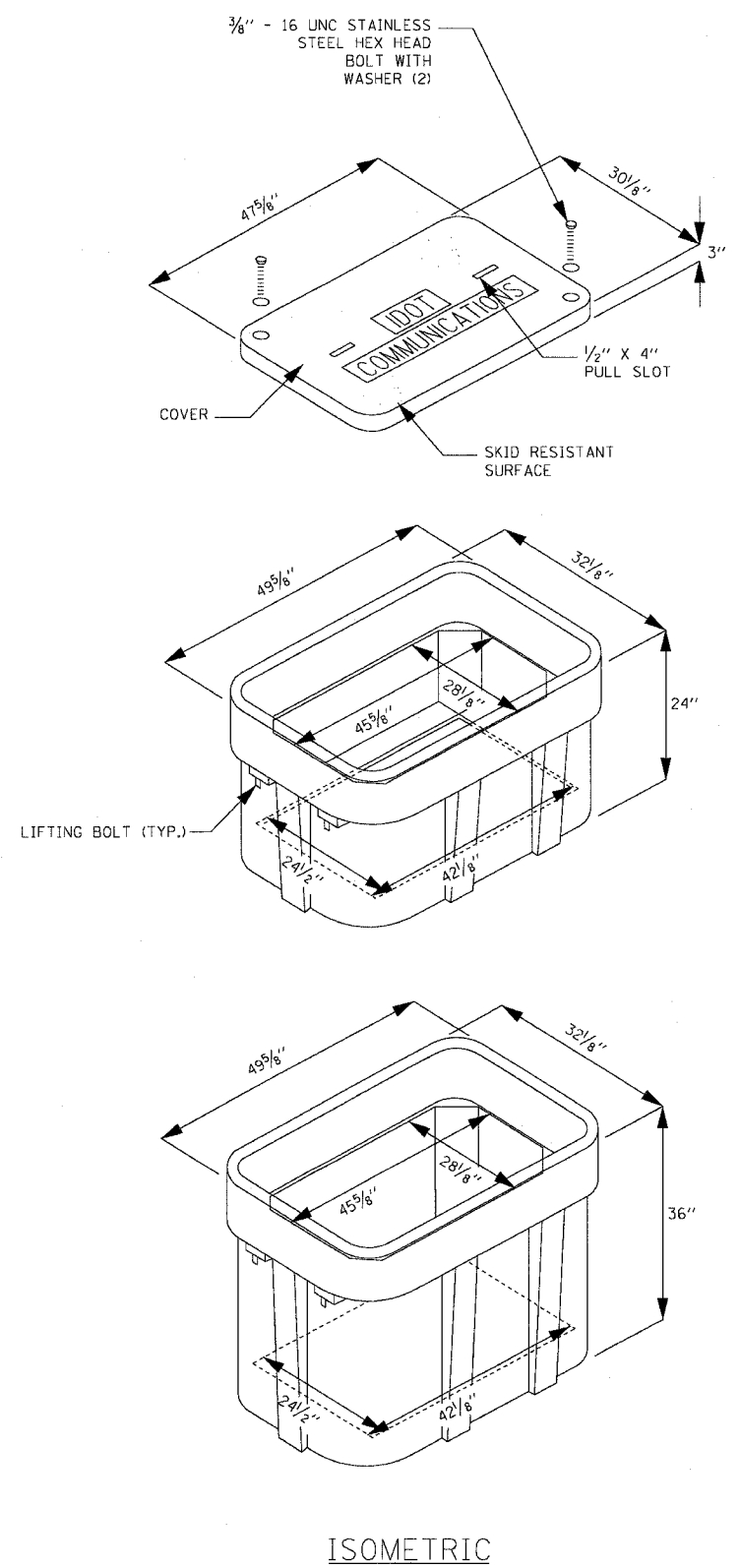
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
**PC CONCRETE - HEAVY DUTY HANDHOLE  
DETAIL, TYPE S1 AND  
TYPE S1 SPECIAL**

SCALE: NOT TO SCALE  
DATE: June 9, 2006

DRAWN BY: HAR  
CHECKED BY: JPC

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	312	190
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



- NOTES:**
1. BOX SHALL HAVE AN OPEN BASE.
  2. COVER SHALL BE TYPE HA AND SHALL LOCK.
  3. ALL OPENINGS IN STRUCTURE MUST BE MACHINED AT TIME OF FABRICATION OR PUNCH DRIVEN AT TIME OF PLACEMENT.
  4. FIELD PLACEMENT OF COMMUNICATIONS VAULT SHALL BE AS DIRECTED BY THE ENGINEER.

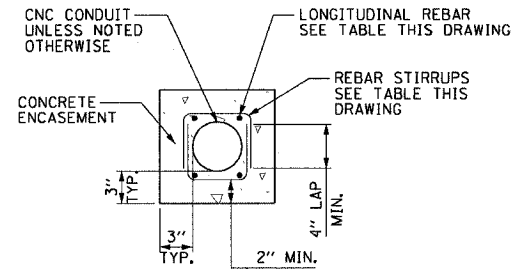
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
**COMMUNICATIONS VAULT DETAILS**  
 (HANDHOLE TYPE C1)

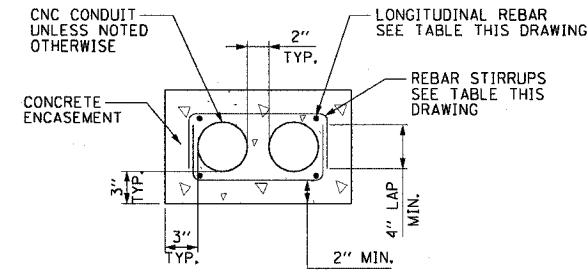
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 DRAWN BY: HAR  
 CHECKED BY: JPC

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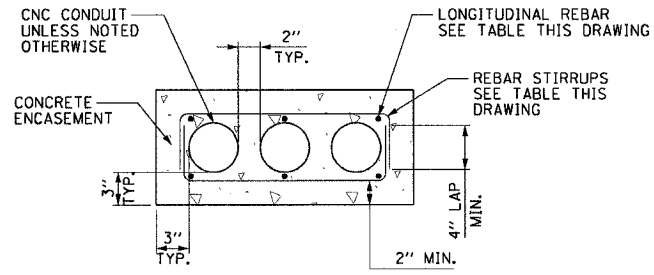
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	191
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
60A62		1919.15, 2021-922 PT1 & PT2) R-1		



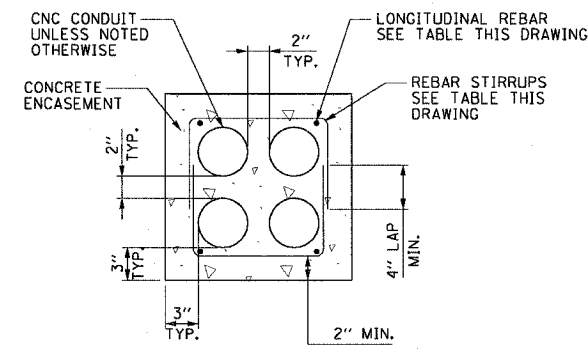
**1x1 DUCTBANK DETAIL-  
IN REINFORCED CONCRETE**  
NOT TO SCALE



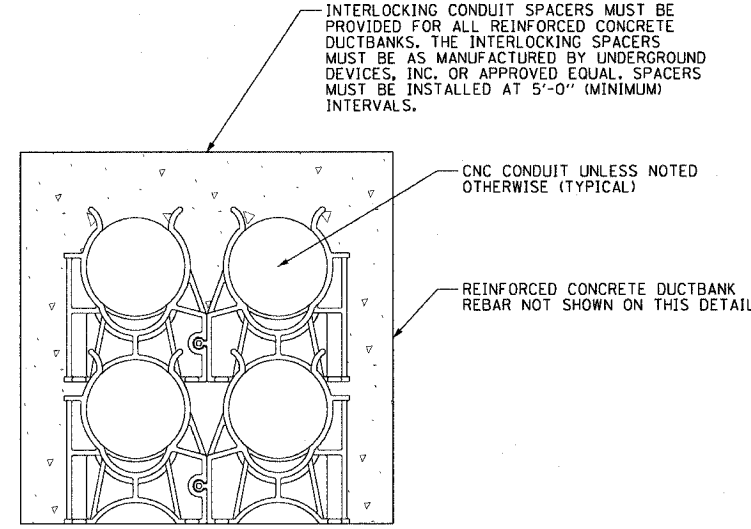
**2x1 DUCTBANK DETAIL-  
IN REINFORCED CONCRETE**  
NOT TO SCALE



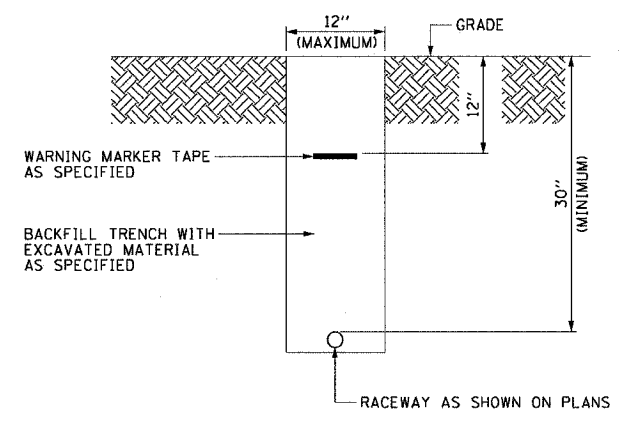
**3x1 DUCTBANK DETAIL-  
IN REINFORCED CONCRETE**  
NOT TO SCALE



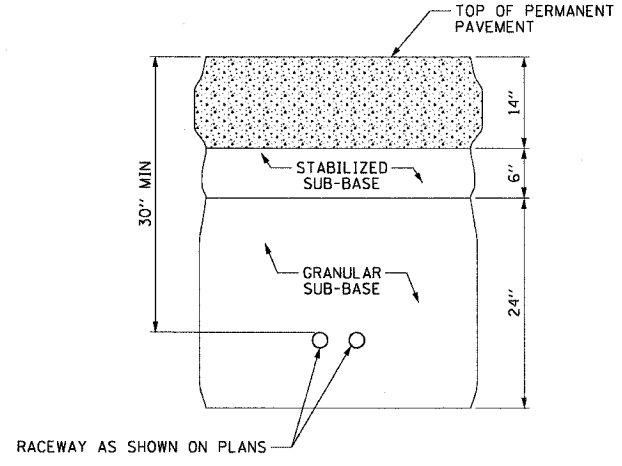
**2x2 DUCTBANK DETAIL-  
IN REINFORCED CONCRETE**  
NOT TO SCALE



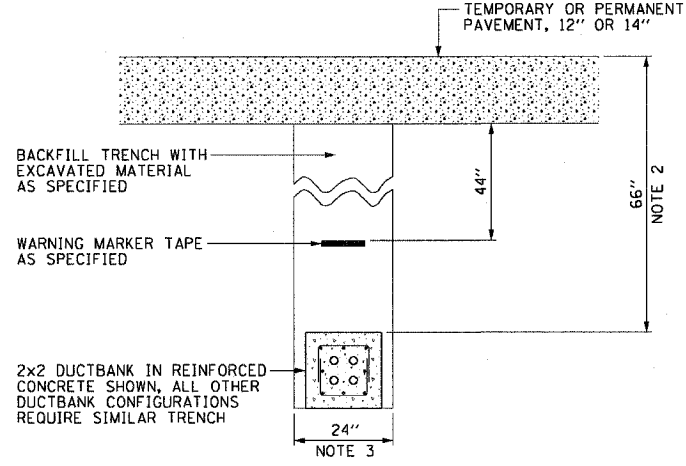
**INTERLOCKING CONDUIT SPACER DETAIL**  
NOT TO SCALE



**TYPICAL ELECTRICAL  
CONDUIT IN UNPAVED AREA**  
NOT TO SCALE



**TYPICAL SURVEILLANCE  
CONDUIT UNDER PERMANENT PAVEMENT**  
NOT TO SCALE



**TYPICAL ELECTRICAL  
DUCTBANK UNDER PAVEMENT**  
NOT TO SCALE

**NOTES:**

- SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- PROVIDE MINIMUM CLEARANCE SHOWN FROM TOP OF DUCTBANK TO FINISHED GRADE FOR ALL DUCTBANKS, REGARDLESS OF SIZE, CONTRACTOR MUST INSTALL DUCTBANKS SUCH THAT THEY WILL CLEAR ALL UNDERGROUND OBSTACLES.
- TRENCH MUST HAVE MINIMUM WIDTH SHOWN FOR ALL DUCTBANKS DETAILED ON THIS DRAWING. THE CONTRACTOR MUST INCREASE TRENCH WIDTH FOR ADDITIONAL CONDUITS, AS DIRECTED BY THE COMMISSIONER, AT NO ADDITIONAL COST.
- NOT ALL DUCTBANK CONFIGURATIONS ARE SHOWN. ALL DUCTBANKS INSTALLED UNDER THIS CONTRACT WILL CONFORM TO THE TYPICAL SPACINGS SHOWN ON THIS DRAWING.

DUCTBANK REINFORCEMENT TABLE		
DUCTBANK CONCRETE CROSS-SECTIONAL AREA SQ. INCHES	LONGITUDINAL REBAR	REBAR STIRRUPS
	BARS	
LESS THAN 450	#4	#3 AT 12" SPACING
451 TO 650	#5	#3 AT 12" SPACING
GREATER THAN 651	#6	#3 AT 12" SPACING

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

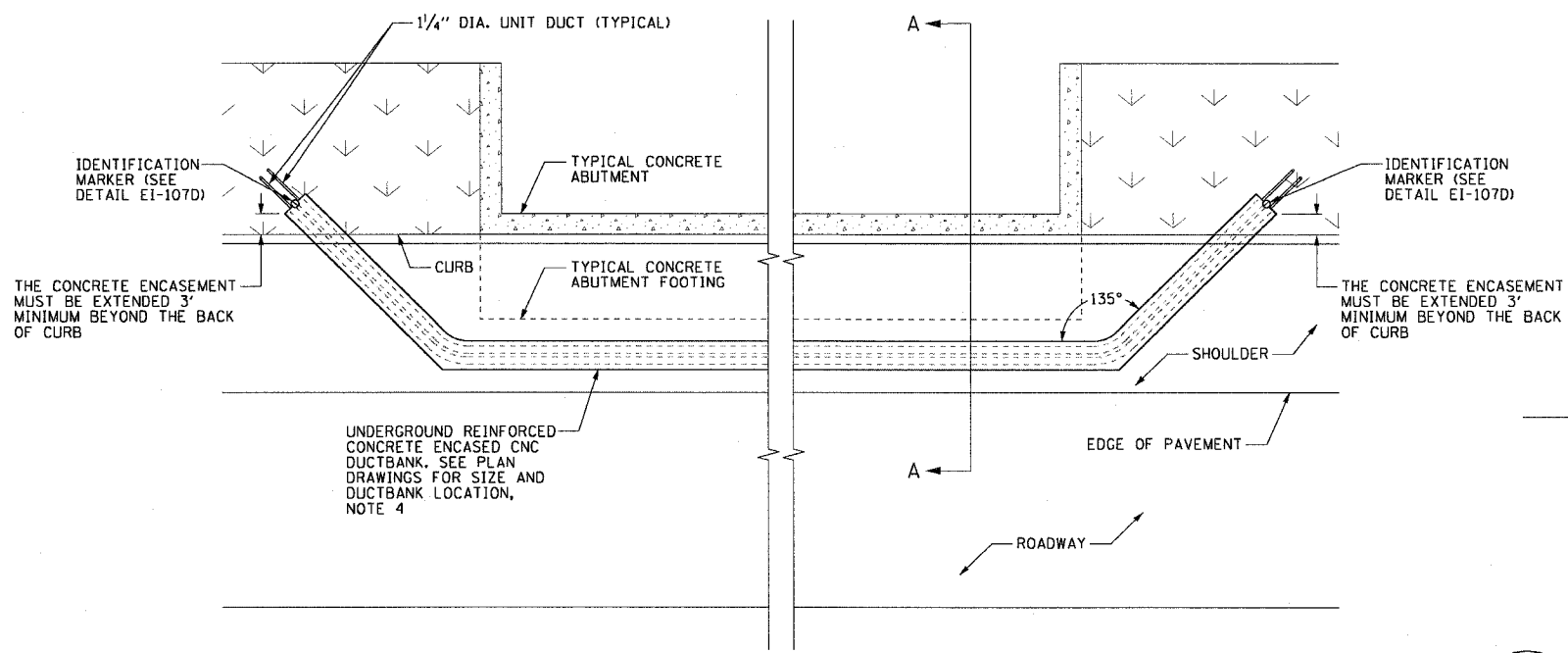
**ELECTRICAL DUCTBANK DETAILS**

SCALE: NOT TO SCALE  
DATE: June 9, 2006

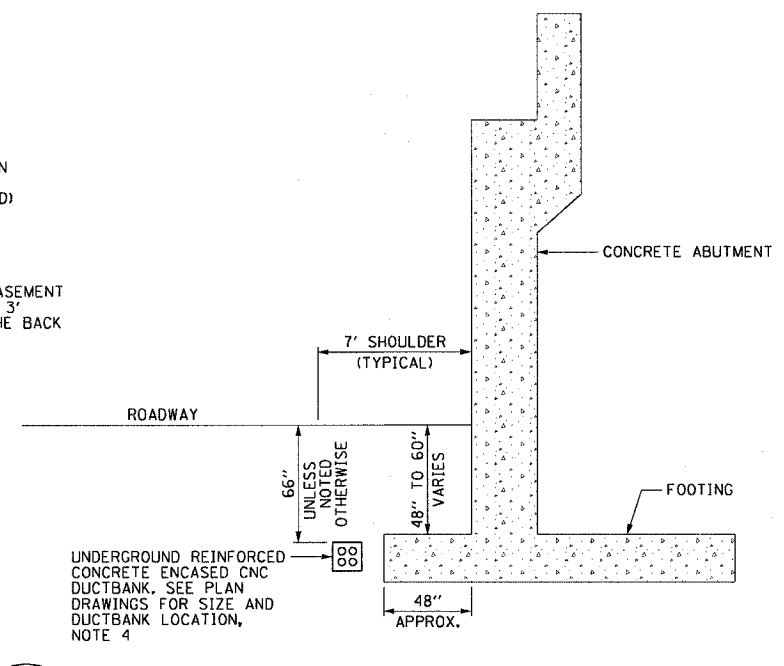
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CHECKED BY: JPC

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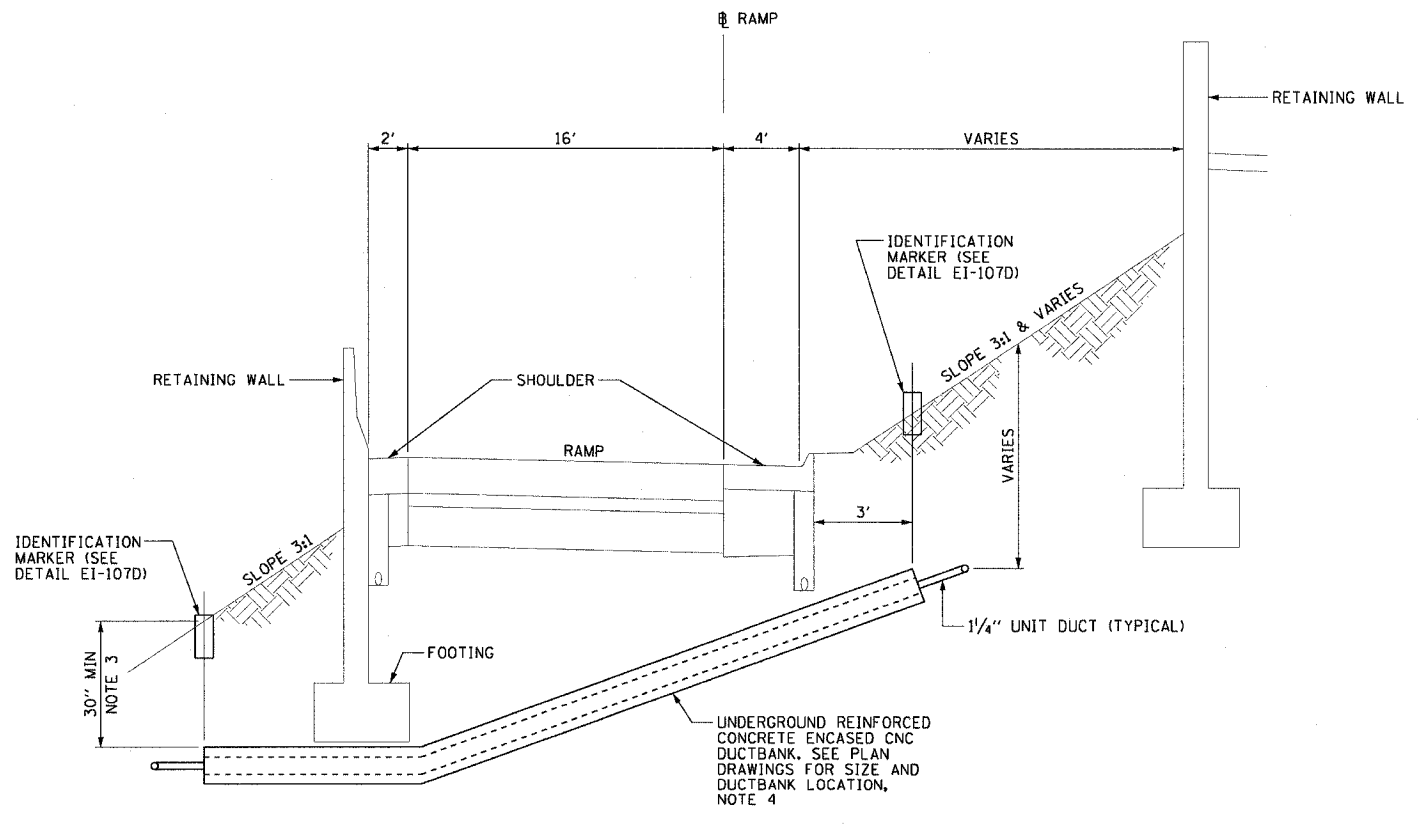
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	312	192
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
60A62		1919.15, 2021-922 PT1 & PT2) R-1		



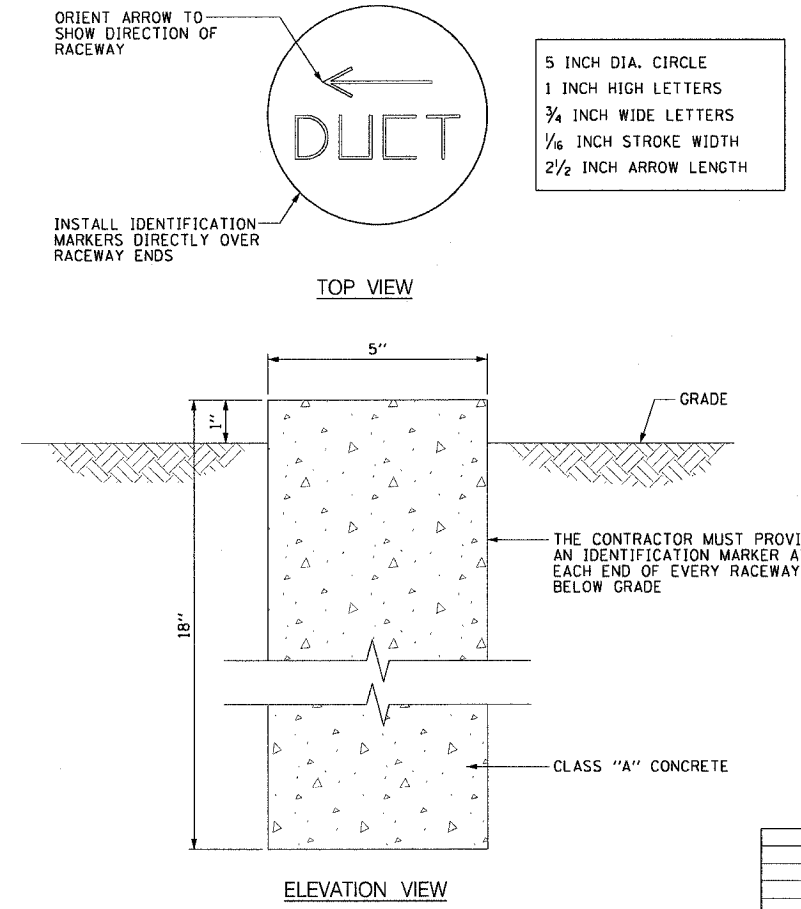
**EI-107A** DUCTBANK ROUTING AROUND ABUTMENT  
SCALE: 1/4" = 1'-0"



**EI-107B** DUCTBANK INSTALLATION DETAIL A-A  
SCALE: 1/4" = 1'-0"

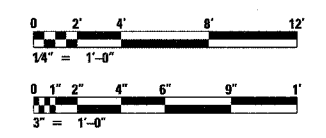


**EI-107C** TYPICAL CONCRETE ENCASED CNC UNDER RAMP INSTALLATION DETAIL  
NOT TO SCALE



**EI-107D** IDENTIFICATION MARKER DETAIL  
SCALE: 3" = 1'-0"

- NOTES:**
- SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
  - SEE PLAN DRAWINGS FOR THE PROPOSED CONDUIT ROUTING.
  - DUCTBANK DEPTH MUST BE ADJUSTED SUCH THAT THE TOP OF CONCRETE ENCASEMENT IS INSTALLED UNDER THE RETAINING WALL FOOTING. FOR SOLDIER PILE TYPE RETAINING WALLS THE DUCTBANK IS ROUTED BETWEEN PILES. THE DUCTBANK DEPTH MUST BE 30 INCHES MINIMUM.
  - SEE DRAWING EI-106 FOR ELECTRICAL CONCRETE DUCTBANK DETAILS.
  - SEE PLAN DRAWINGS FOR ANY DEVIATIONS IN DUCTBANK DEPTH.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

**DUCTBANK INSTALLATION DETAILS  
UNDER RAMP AND AROUND  
ABUTMENTS**

SCALE: AS SHOWN  
DATE: June 9, 2006

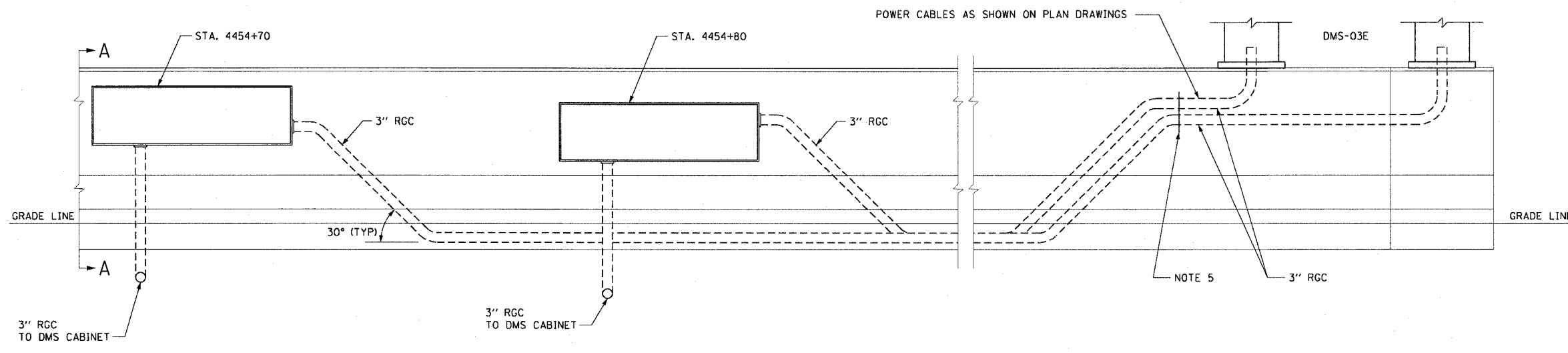
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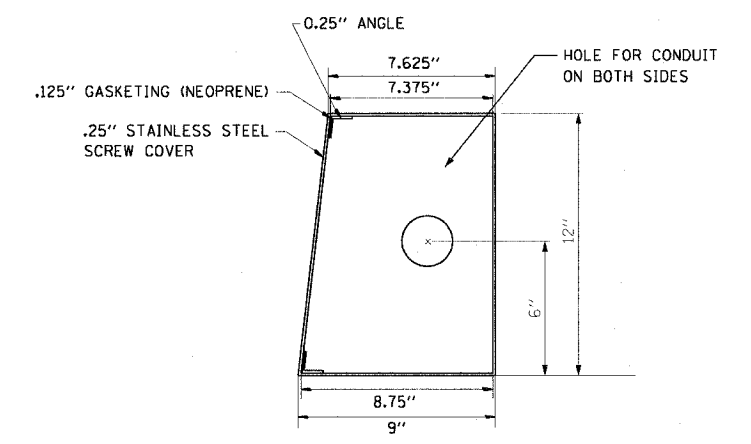


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
60A62		* (1919.15, 2021-922 PT1 & PT2) R-1		

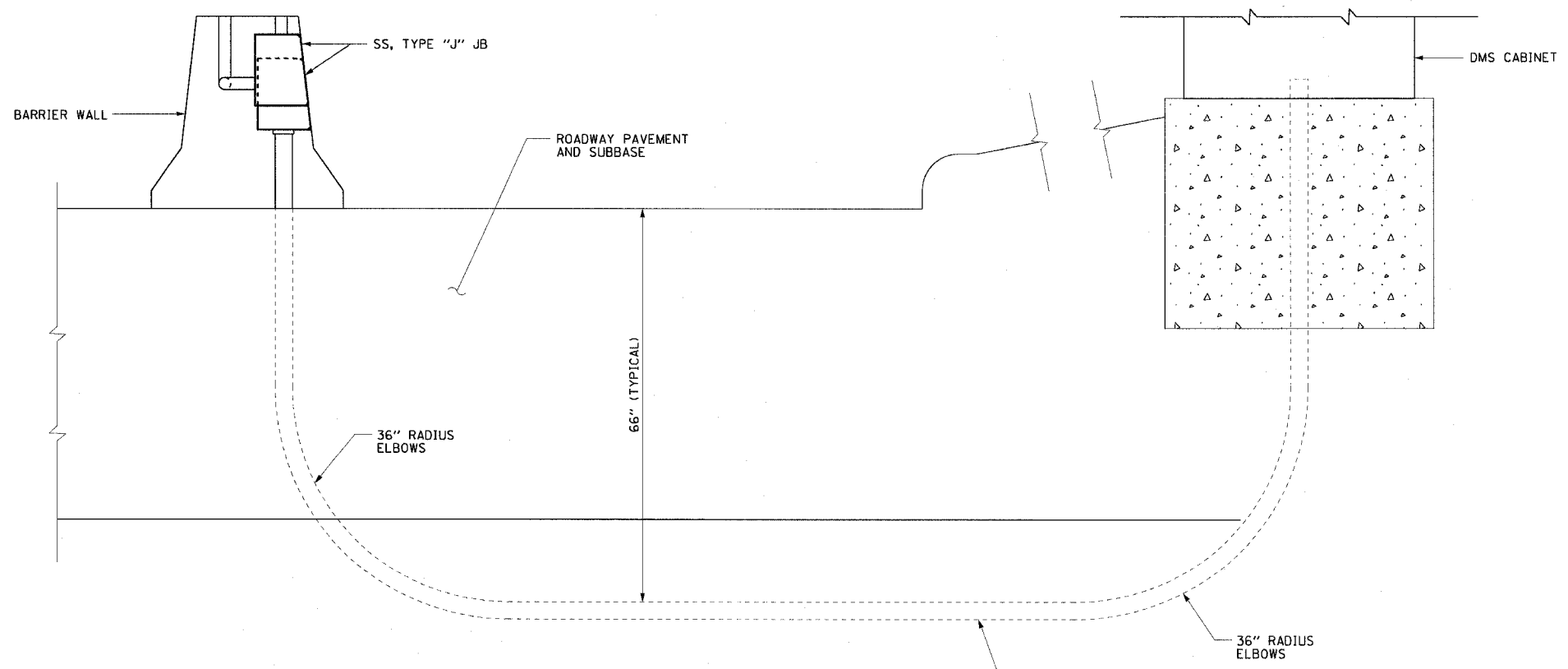


- NOTES:**
- SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
  - ALL WELDS MUST BE CONTINUOUS AND LEAK PROOF. BOX AND COVER MUST BE .25" TYPE 316 STAINLESS STEEL.
  - ALL CONDUIT AND JUNCTION BOXES SHOWN IN BARRIER WALLS OR UNDER PAVEMENT ARE FURNISHED AND INSTALLED IN CONTRACT 60A62. ALL ELECTRIC CABLES ARE FURNISHED AND INSTALLED UNDER CONTRACT 62583.
  - CABINET AND CONDUIT ENTRY CONFIGURATION IS TYPICAL. SEE PLAN SHEETS FOR SPECIFIC CONFIGURATION.
  - THE CONTRACTOR SHALL LOCATE THE EXISTING 3" RGC CONDUITS INSTALLED IN THE BARRIER WALL IN 100T CONTRACT 62300 AND CONTINUE THEM TO JUNCTION BOXES.

1 BARRIER WALL DUCT DETAIL ELEVATION  
NOT TO SCALE



3 SPECIAL JUNCTION BOX  
TYPE "J" - SIDE VIEW  
NOTE 2



2 SECTION A-A

REVISIONS	
NAME	DATE

EI-108

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
DUCT DETAIL FOR DMS  
CONDUITS IN MEDIAN WALL

SCALE: NOT TO SCALE  
DATE: June 9, 2006

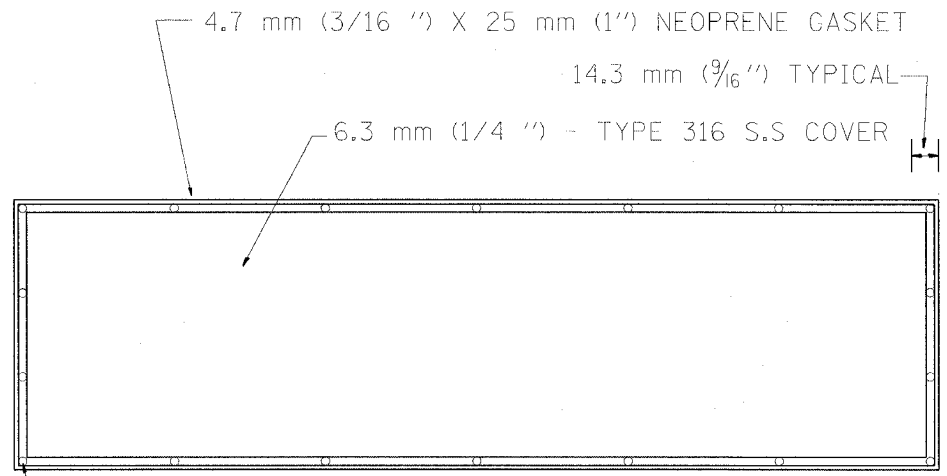
DRAWN BY: HAR  
CHECKED BY: JPC

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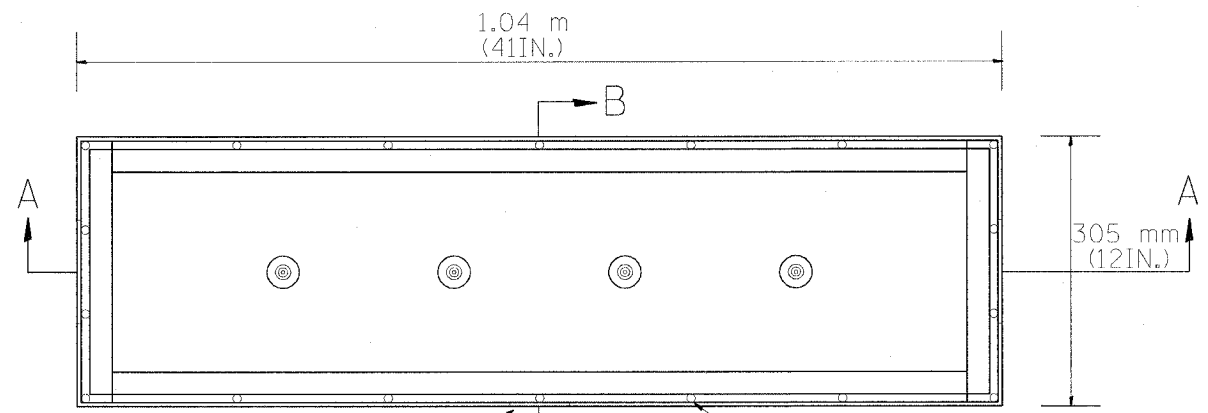
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	194
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
60A62		• (1919.15, 2021-922 PT1 & PT2) R-1		



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

BACK VIEW

STAINLESS STEEL COVER WITH NEOPRENE GASKET

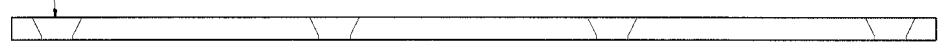


67 mm (2.625 IN.) DIA. FOR 50.0 mm (2 IN.) GS-CONDUIT

9.5 mm (3/8 IN.)-16 TAP

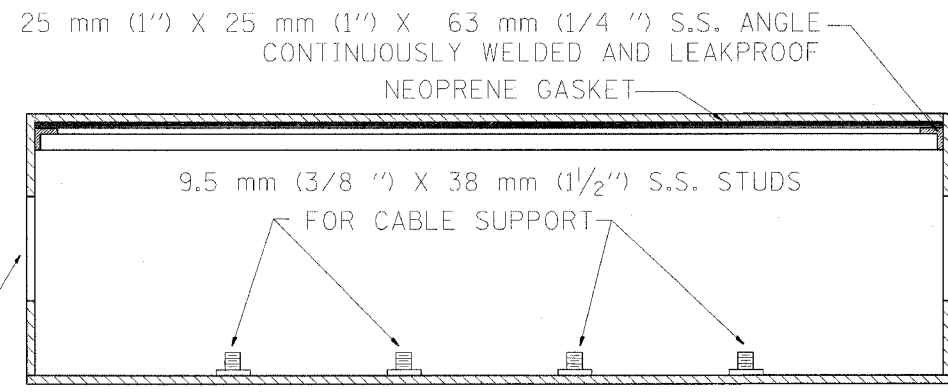
TOP VIEW

STAINLESS STEEL JUNCTION BOX TYPE "J"



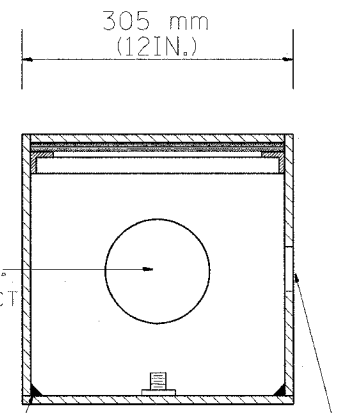
SIDE VIEW

STAINLESS STEEL COVER



117 mm (4.625 inch) DIA. FOR 100 mm (4 inch) PVC DUCT

SIDE VIEW SECTION A-A



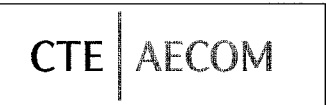
117 mm (4.625 inch) DIA. FOR 100 mm (4 inch) PVC DUCT

67 mm (2.625 IN.) DIA. HOLE

SIDE VIEW SECTION B-B

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

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



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
CONCRETE  
BARRIER WALL JUNCTION BOX  
TYPE "J"

SCALE: NOT TO SCALE  
DATE: June 9, 2006

DRAWN BY: HAR  
CHECKED BY: JPC

EI-109

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**ELECTRICAL GENERAL NOTES**

1. ALL WORK MUST BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST CHICAGO ELECTRICAL CODE RULES AND ORDINANCES, CITY OF CHICAGO DEPARTMENT OF ELECTRICAL WIRING AND COMMUNICATIONS REQUIREMENTS, BUREAU OF BRIDGES, AND CHICAGO BUREAU OF ELECTRICITY (BOE) STANDARDS, DRAWINGS, DETAILS AND ALL APPLICABLE SPECIFICATIONS/REQUIREMENTS FOR COMPLETE AND APPROVED ROADWAY AND UNDERPASS LIGHTING INSTALLATIONS.
2. REFER TO CIVIL AND STRUCTURAL DRAWINGS FOR STAGING DIAGRAMS AND PHASES OF CONSTRUCTION. COORDINATE ALL DEMOLITION OF EXISTING AND INSTALLATION OF PROPOSED ELECTRICAL WORK SUCH AS INSTALLATION OF EXPANSION/DEFLECTION FITTINGS, LIGHT POLES, HANDHOLES, MANHOLES, CONTROLLERS, ETC., WITH ROADWAY CONSTRUCTION STAGES.
3. A STAGING SCHEDULE FOR MATERIAL AND EQUIPMENT REMOVAL, INSTALLATION, AND APPROXIMATE DATE OF PROPOSED ENERGIZING OF PERMANENT LIGHTING SYSTEMS MUST BE SUBMITTED PRIOR TO THE COMMENCEMENT OF WORK TO ASSURE COORDINATION OF THE WORK SCHEDULE.
4. ALL INFORMATION FOR EXISTING ITEMS SHOWN ON THE DRAWINGS ARE BASED ON FIELD OBSERVATIONS AND AVAILABLE DOCUMENTS, AND ARE NOT GUARANTEED TO BE COMPLETE AND/OR TOTALLY ACCURATE. THE CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS AND EQUIPMENT LOCATIONS IN THE FIELD PRIOR TO SUBMITTING PROPOSAL. FAILURE TO DO SO WILL NOT RELIEVE THIS CONTRACTOR FROM PERFORMING THE WORK AS PART OF THIS CONTRACT. INCLUDE IN THE PROPOSAL ANY RELOCATION OR ALTERATION OF EXISTING ELECTRICAL SYSTEMS, EQUIPMENT OR COMPONENTS WHICH ARE REQUIRED TO CLEAR THE NEW CONSTRUCTION, ADDITIONS OR ALTERATIONS TO BE PERFORMED.
5. NOTIFY THE ENGINEER, IN WRITING, OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND NEW WORK, OR BETWEEN ELECTRICAL WORK AND THE WORK OF OTHER TRADES PRIOR TO SUBMITTING PROPOSAL. LACK OF SUCH NOTIFICATION WILL BE CONSTRUED TO INDICATE NO DISCREPANCIES OR CONFLICTS EXIST. ADDITIONAL COMPENSATION WILL NOT BE GRANTED AFTER AWARD OF CONTRACT FOR ANY SUCH WORK REQUIRED TO COMPLY WITH THESE REQUIREMENTS.
6. THE QUANTITIES OF ALL MATERIALS AS INDICATED ON THESE PLAN DRAWINGS ARE APPROXIMATIONS ONLY. THE CONTRACTOR MUST FIELD VERIFY ALL LENGTHS AND QUANTITIES PRIOR TO ORDERING MATERIALS IN COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
7. THE CONTRACTOR IS RESPONSIBLE TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES, HANDHOLES, MANHOLES, CONDUIT ROUTES, AND OTHER EQUIPMENT AND ITEMS FOR A CONTRACTOR REQUESTED PRE CONSTRUCTION INSPECTION BY THE ENGINEER. THE EXACT LOCATIONS OF ALL ITEMS MUST BE APPROVED BY THE ENGINEER PRIOR TO STARTING WORK. ANY WORK INSTALLED WITHOUT LOCATION APPROVAL WILL BE SUBJECT TO CORRECTIVE ACTION AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR WILL NOT DE-ENERGIZE ANY EXISTING ELECTRICAL EQUIPMENT WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
9. FURNISH, INSTALL, AND MAINTAIN ADEQUATE TEMPORARY POWER AND LIGHTING REQUIRED FOR CONSTRUCTION. THE CONTRACTOR MUST PAY ALL ENERGY COSTS AND ALL POWER COMPANY COSTS.
10. ALL EXISTING AREAS THAT ARE DAMAGED AS PART OF THIS WORK; INCLUDING BUT NOT LIMITED TO FENCING, CURB AND GUTTER, SIDEWALKS, AND WHERE RESTORATION IS NOT COVERED BY THE APPLICABLE SECTIONS OF THE SPECIFICATIONS, MUST BE RESTORED TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL BE INCLUDED IN THE COST OF THIS CONTRACT. SEPARATE PAYMENT WILL NOT BE MADE.
11. NOTIFY THE UTILITY COMPANIES (SUCH AS COMED, CABLE TV, TELEPHONE, ETC.) TO RELOCATE THEIR EXISTING EQUIPMENT LOCATED ON PUBLIC RIGHT OF WAY SPACES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION OF ROADWAY.
12. TRENCHED CONDUITS MUST BE INSTALLED AT A MINIMUM DEPTH OF 30" BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH TREE ROOTS, ROADWAY SEWER DRAINS, SHEET PILING, AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR MUST INCREASE THE DEPTH OF TRENCH AND CONDUITS TO AVOID CONFLICTS AS REQUIRED AT NO ADDITIONAL COST TO IDOT.
13. ALL EQUIPMENT, CONDUITS, LIGHT POLES, LIGHTING CONTROLLERS AND CABINET ENCLOSURES MUST BE PROPERLY GROUNDED IN ACCORDANCE WITH THE CITY OF CHICAGO ELECTRICAL CODE REQUIREMENTS. USE A CONTINUOUS EQUIPMENT GROUNDING CONDUCTOR THROUGHOUT ALL WIRING, PROPERLY BONDED TO POLES, JUNCTION BOXES, CABINETS ETC. AND INCORPORATED IN ALL CIRCUIT RUNS.
14. GROUND RODS MUST BE INSTALLED FOR SERVICE GROUNDING AT LIGHTING CONTROLLERS, TEMPORARY LIGHTING UNITS, CONTROLLER FOUNDATION, AND AT EACH CONCRETE POLE FOUNDATION INSTALLED ON EMBANKMENT.
15. CONNECTIONS TO THE GROUND RODS MUST BE MADE WITH EXOTHERMIC WELDS, CITY OF CHICAGO APPROVED. THE DRIVEN GROUND ROD ELECTRODES MUST HAVE A LOW RESISTANCE TO THE GROUND NOT TO EXCEED 25 OHMS.
16. THE ELECTRIC CABLE PHASE AND NEUTRAL CONDUCTORS MUST BE RUN CONTINUOUS WITHOUT ANY UNDERGROUND SPLICES, LIGHTING CONTROLLER SPLICES, HANDHOLE SPLICES, OR MANHOLE SPLICES. SPLICING OF ELECTRIC CABLE PHASE AND NEUTRAL CONDUCTORS WILL BE PERMITTED ONLY IN THE BASE OF THE EXISTING TO REMAIN OR PROPOSED LIGHT POLES. THIS WORK WILL BE INCLUDED IN THE ELECTRIC CABLE PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
17. PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM, TEST THE ENTIRE INSTALLATION FOR GROUNDS, SHORTS, IMPROPER INSULATION RESISTANCE OR IMPROPER CONNECTION. APPLY DC VOLTAGE OF 1000 VOLTS FOR MEASUREMENT OF INSULATION RESISTANCE. (USE MOTOR DRIVEN MEGGER INSTRUMENT.)
18. THE CONTRACTOR MUST SCHEDULE A FINAL ACCEPTANCE INSPECTION WITH THE ENGINEER AND THE BOE UPON COMPLETION OF ALL PROPOSED LIGHTING WORK. UPON FINAL ACCEPTANCE, THE CONTRACTOR MUST TRANSFER ALL LIGHTING INSTALLATIONS TO THE BOE FOR MAINTENANCE PURPOSES.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	312	195
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
60A62		* (1919.15, 2021-922 PT1 & PT2) R-1		

E-1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)  
  
**CDOT ELECTRICAL GENERAL NOTES**  
  
 SCALE: NOT TO SCALE      DRAWN BY: HAR  
 DATE: June 9, 2006      CHECKED BY: JPC



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**ELECTRICAL SYMBOLS FOR CDOT (BOE) WORK**

- EXISTING CDOT COMBINATION TRAFFIC SIGNAL/LIGHTING UNIT; POLE, MAST ARM AND LUMINAIRE AS INDICATED ON PLANS.
- EXISTING CDOT LIGHTING UNIT; POLE, MAST ARM AND LUMINAIRE AS INDICATED ON PLANS
- EXISTING LUMINAIRE, 310W HPS LAMP, 240V, SEMI-CUTOFF
- EXISTING CDOT LIGHTING UNIT TO BE REMOVED AND/OR RELOCATED (POLE, MAST ARM AND LUMINAIRE) AS INDICATED ON PLANS
- EXISTING POLE, CITY STEEL, EMBEDDED, 4"x9"x20' 7 GA, TAPERED TUBULAR
- EXISTING POLE, CITY STEEL, ANCHOR BASE, 20'-0", 7 GA, STEEL AND FND WITH 10" BC AND 1/4" ANCHOR RODS
- EXISTING STREET LIGHTING CONTROLLER, PEDESTAL OR BASE MOUNTED

**GENERAL ELECTRICAL CABLE AND CONDUIT SYMBOLS**

- EXISTING RACEWAY OR CONDUIT RUN AS INDICATED ON PLANS
- RACEWAY OR CONDUIT IN TRENCH, LENGTH AND TYPE AS INDICATED ON PLANS
- EXPOSED RACEWAY OR CONDUIT, LENGTH AND TYPE AS INDICATED ON PLANS
- RACEWAY OR CONDUIT EMBEDDED IN STRUCTURE, LENGTH AND TYPE AS INDICATED ON PLANS
- PROPOSED RACEWAY OR CONDUIT IN TRENCH FOR TRAFFIC SIGNALS/LIGHTING, LENGTH AND TYPE AS INDICATED ON THE TRAFFIC SIGNAL PLANS.
- AERIAL CABLE, LENGTH AND TYPE AS INDICATED ON PLANS
- CABLE, STREET LIGHTING, 2-1/C\*6, 1-1/C\*8 GND EPRN, 600 V, TRIPLEXED, IN RACEWAY OR CONDUIT AS INDICATED ON PLANS
- EXISTING CABLE, STREET LIGHTING, IN EXISTING RACEWAY OR CONDUIT RUN
- CABLE, STREET LIGHTING, 3-1/C \*2/0 EPR, 600V, IN RACEWAY OR CONDUIT AS INDICATED ON THE PLANS

**ABBREVIATIONS (CDOT)**

A	AMPERES	LF	LINEAR FEET
AC	ALTERNATING CURRENT	LT	LEFT
A/C	AERIAL CABLE	LTG	LIGHTING
ALUM	ALUMINUM	MA	MAST ARM
ATS	ATTACHED TO STRUCTURE	MAX	MAXIMUM
AWG	AMERICAN WIRE GAUGE	MIN	MINIMUM
℄	BASELINE	MTD	MOUNTED
BC	BOLT CIRCLE	NB	NORTHBOUND
BHB	BALLAST HOUSING BASE	NEC	NATIONAL ELECTRIC CODE
BOE	CITY OF CHICAGO BUREAU OF ELECTRICITY	NEMA	NATIONAL ELEC MANUFACTURERS ASSOCIATION
C	CONDUIT	NM	NON-METALLIC
CDOT	CITY OF CHICAGO DEPARTMENT OF TRANSPORTATION	NO	NUMBER
CEC	CHICAGO ELECTRIC CODE	NTS	NOT TO SCALE
CONC	CONCRETE	PH	PHASE
CKT(S)	CIRCUIT(S)	PNL	PANEL
℄	CENTERLINE	PTZ	PAN-TILT-ZOOM
D	DUCTBANK	PVC	POLYVINYL CHLORIDE
DC	DIRECT CURRENT	PVCC	PVC COATED
DIA	DIAMETER	PVGRS	PVC COATED GALVANIZED RIGID STEEL CONDUIT
DWG(S)	DRAWING(S)	R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED UNO)
E	EXISTING UNIT TO REMAIN	ROW	RIGHT OF WAY
EB	EASTBOUND	RT	RIGHT
ECA	ELECTRIC CABLE ASSEMBLY	SB	SOUTHBOUND
EL	ELEVATION	SS	STAINLESS STEEL
EM	EXISTING UNIT TO BE MODIFIED	STA	STATION
ER	EXISTING RELOCATED UNIT	STRUCT	STRUCTURE
F	FOOT, FEET	T	TEMPORARY EQUIPMENT OR INSTALLATION
FND	FOUNDATION	TYP	TYPICAL
GA	GAUGE	UNO	UNLESS NOTED OTHERWISE
GND	GROUND	V	VOLT
GRS	GALVANIZED RIGID STEEL CONDUIT	W	WATT
HPS	HIGH PRESSURE SODIUM	WB	WESTBOUND
JB	JUNCTION BOX	WM	WALL MOUNTED
KVA	KILOVOLT-AMPERE	WP	WOOD POLE
KW	KILOWATT	XFMR	TRANSFORMER
LC	LIGHTING CONTROLLER		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	312	196
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
60A62		• (1919.15, 2021-922 PT1 & PT2) R-1		



REVISIONS	
NAME	DATE

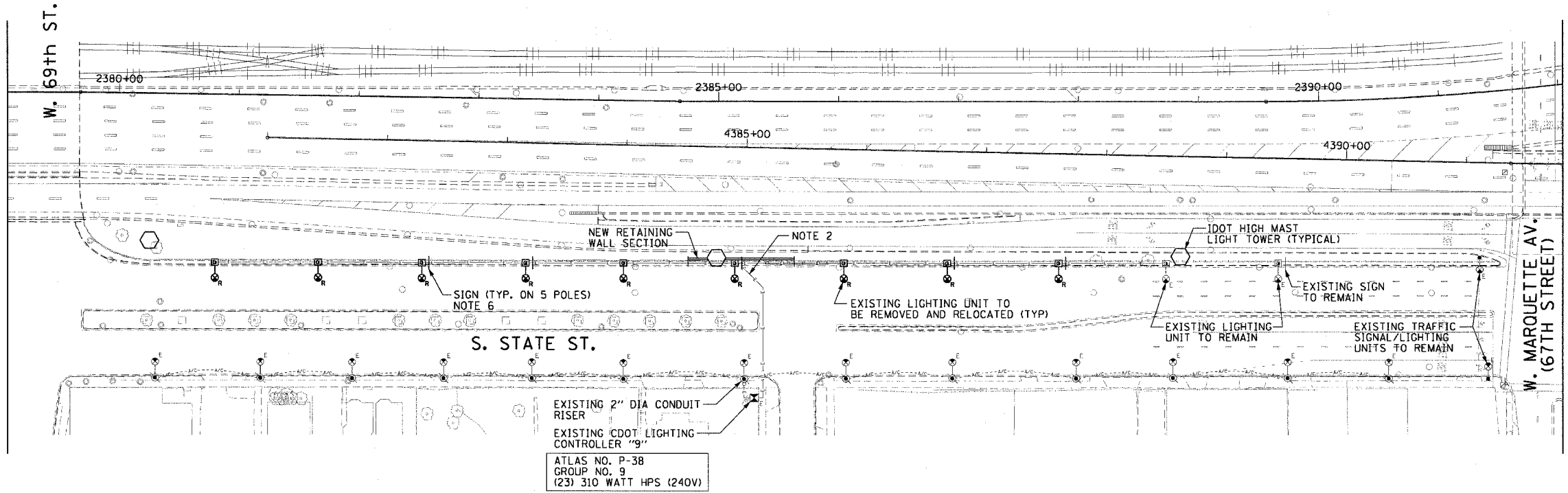
ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

**CDOT ELECTRICAL SYMBOLS AND ABBREVIATIONS**

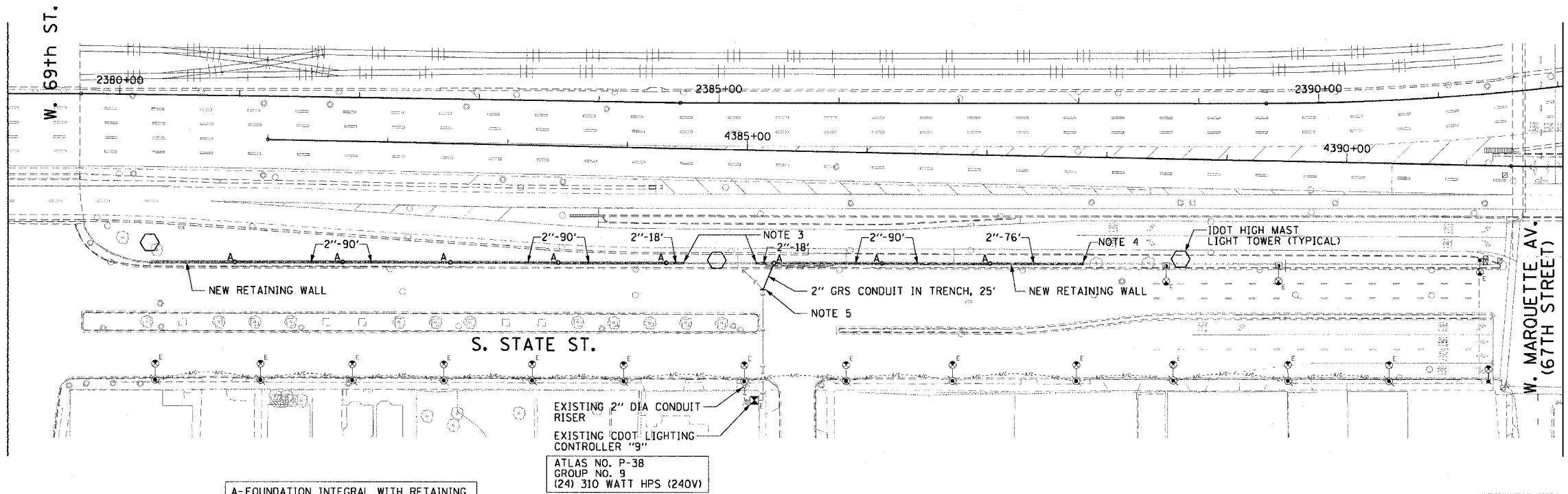
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DATE: June 9, 2006      CHECKED BY: JPC

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	197
STA. 1376+00.00 TO STA. 1388+00.00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



**EXISTING CONDITION/DEMOLITION PLAN**



**PROPOSED CONDUIT AND FOUNDATION PLAN**

A- FOUNDATION INTEGRAL WITH RETAINING WALL SEE STRUCTURAL DRAWINGS, 10" B.C., 1/4" ANCHOR RODS  
 2" CONDUIT BETWEEN FOUNDATIONS SHALL BE SCHEDULE 80 PVC EMBEDDED IN RETAINING WALL

**NOTES:**

- SEE DRAWINGS E-1 AND E-2 FOR GENERAL NOTES SYMBOLS AND ABBREVIATIONS.
- REMOVE EXISTING WIRING BACK TO LIGHTING CONTROLLER. CUT AND CAP CONDUIT FOR FUTURE USE.
- CONNECT TO EXISTING 2" CONDUIT EMBEDDED IN EXISTING RETAINING WALL.
- EXTEND CONDUIT 12" PAST END OF WALL AND CAP FOR FUTURE EXTENSION.
- INTERCEPT EXISTING RACEWAY AND EXTEND TO WALL MOUNTED LIGHTING UNIT. (2" RGS IN TRENCH). REPAIR STREET TO MATCH EXISTING. STREET REPAIR WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED UNDER THE PAY ITEM TRENCH AND BACKFILL WITH SCREENINGS AND/OR SAND.
- REGULATORY SIGNS ATTACHED TO LIGHT POLES SHALL BE INVENTORIED, REMOVED AND STORED BY THE CONTRACTOR FOR REINSTALLATION ON RELOCATED LIGHT POLES.

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REVISIONS	
NAME	DATE

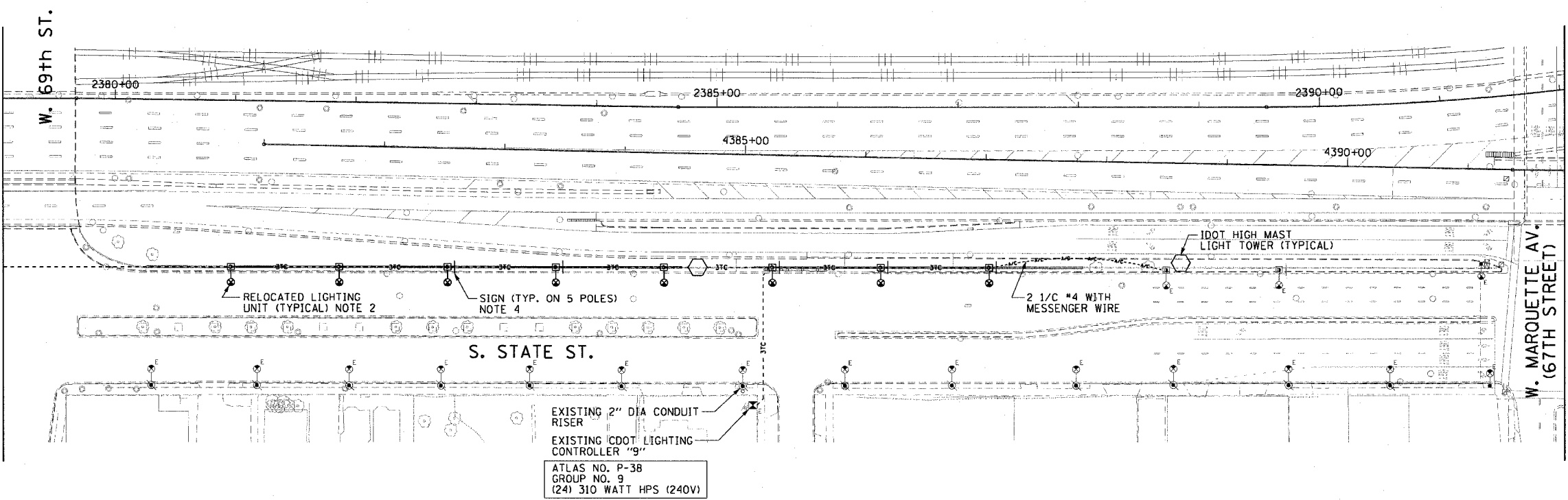
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

**EXISTING PLAN  
 PROPOSED CONDUIT AND  
 FOUNDATION PLAN**

SCALE: 1"=50'  
 DATE: June 9, 2006

DRAWN BY: HAR  
 CHECKED BY: JPC

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	198
STA. 1376+00.00 TO STA. 1388+00.00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



WIRING PLAN

NOTES:

- SEE DRAWINGS E-1 AND E-2 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- EXISTING GROUND MOUNTED LIGHTING UNITS TO BE REMOVED, CLEANED, PAINTED, PROVIDED WITH NEW LAMPS AND BE INSTALLED ON TOP OF THE NEW RETAINING WALL. EXCESS EQUIPMENT SHALL BE RETURNED TO THE CITY OF CHICAGO. SEE STRUCTURAL DRAWINGS FOR RETAINING WALL FOUNDATION DETAILS. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
- ROUTE ALL PROPOSED LIGHTING CIRCUIT CABLE SHOWN ON THIS DRAWING IN CONDUIT SHOWN ON THE PROPOSED CONDUIT AND FOUNDATION PLAN, DRAWING E-3.
- EXISTING REGULATORY SIGNS SHALL BE REINSTALLED ON LIGHT POLES AS DIRECTED BY THE COMMISSIONER.

E-4

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

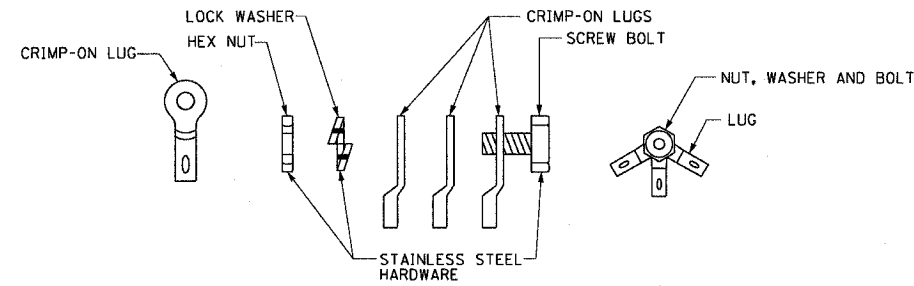
WIRING PLAN

SCALE: 1"=50'  
 DATE: June 9, 2006  
 DRAWN BY: HAR  
 CHECKED BY: JPC

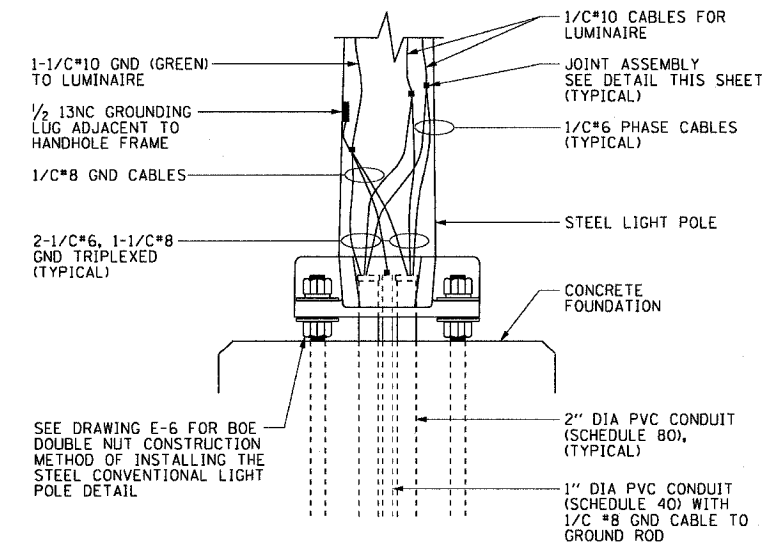


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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	312	199
STA. -		TO STA. -		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				



**JOINT ASSEMBLY DETAILS**  
NOT TO SCALE



**WALL MOUNTED POLE BASE WIRING DETAIL**  
NOT TO SCALE

**NOTES:**

1. SEE DRAWINGS E-1 AND E-2 FOR CDOT ELECTRICAL GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. SEE PLAN DRAWING E-3 FOR THE PROPOSED CONDUIT ROUTING.

CTE | AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

MISCELLANEOUS ELECTRICAL DETAILS

SCALE: AS SHOWN      DRAWN BY: HAR  
DATE: June 9, 2006      CHECKED BY: JPC

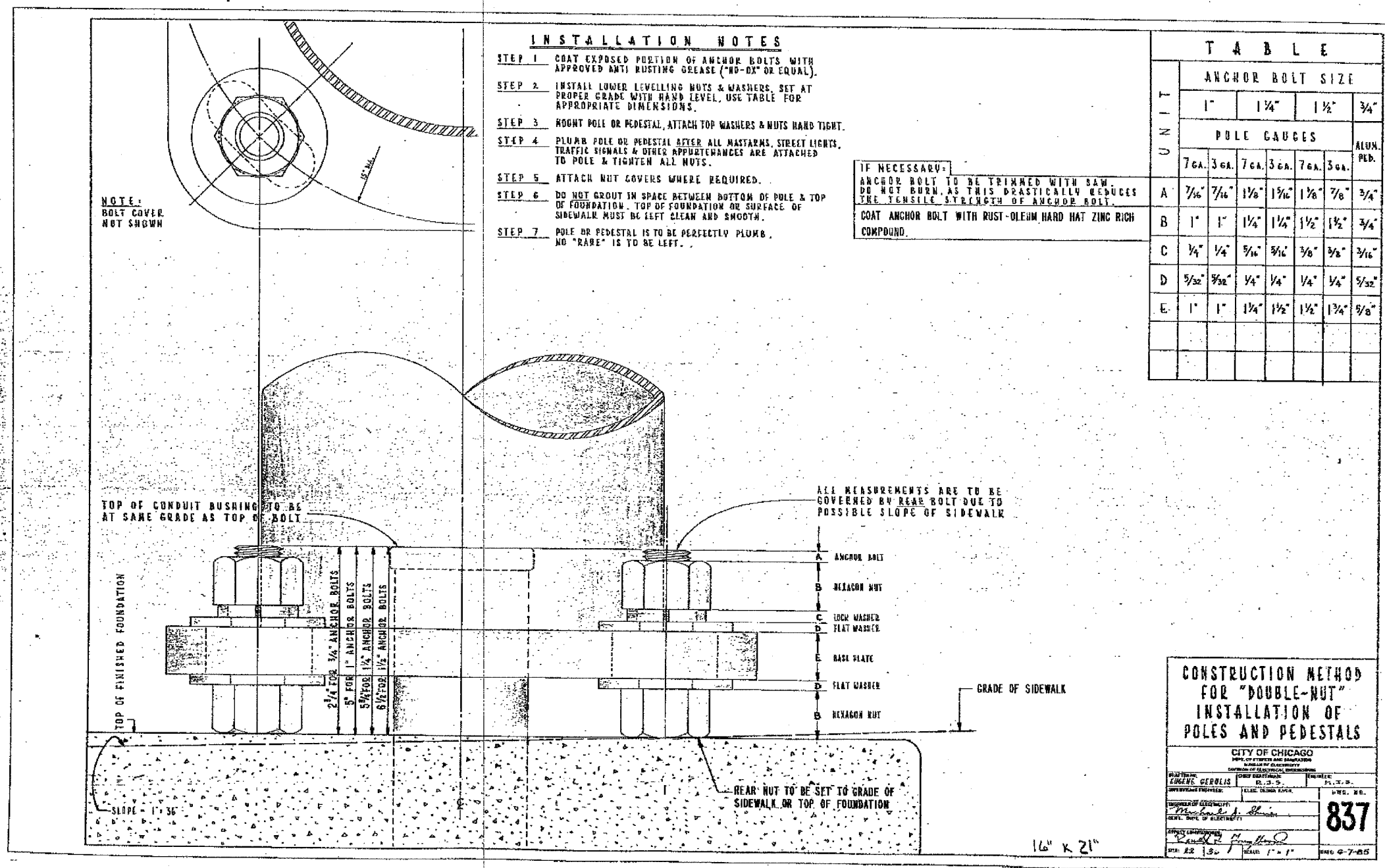
P:\p40468\elec\8-cifs\18 & 19\contract\86317\86317.dwg 05/25/06 02:47:05 PM



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	200
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
60A62 • (1919.15, 2021-922 PT1 & PT2) R-1				

**NOTES:**

- THIS IS A STANDARD DRAWING MADE BY THE CITY OF CHICAGO, DEPARTMENT OF STREETS AND SANITATION, BUREAU OF ELECTRICITY. THIS DRAWING IS INCLUDED FOR THE CONVENIENCE OF THE CONTRACTOR.



CTE | AECOM

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)
NAME	DATE	
		STANDARD BOE DETAILS

SCALE: NOT TO SCALE  
DATE: June 9, 2006  
DRAWN BY: HAR  
CHECKED BY: JPC

06/02/2006 02:54:05 PM