

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
IS0161094R058.3	3444+50.00	1- A	86′	2.80′	8.48′L	12.5'	346.5 SF
					21.38'R		
1S0161094R058.1	3453+00.00	<i>I-</i> A	71′	-1.12'	9.86 L	12.5′	346.5 SF
TO THE PART WAS TO SHARE A PARTY PARTY.					22.71'R		
		1					
	ļ						
		1		1			

DATE

REVISION

NUMBER

Maximum Lenath

c. to c. Support Frames

(See Sign Structures Manual)

DESIGN WIND LOADING DIAGRAM

analysis for all components.

DESIGNED

CHECKED

DRAWN

CHECKED 0S-A-1 JSS

MJP

JSS

Parameters shown are basis for I.D.O.T. Standards and Sign Manual

Tables. Installations not within dimensional limits shown require special

EXAMINED

PASSED

1-7-05

NGINEER OF BRIDGES AND STRUCTURES

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE TYPE I-A (4'-0" x 4'-6")	Foot	157
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	0
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	100
CONCRETE FOUNDATIONS	Cu. Yds.	0
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	43.3

ROUTE NO.	SECTION	cou	INTY	TOTAL SHEETS	SHEET NO.
F.A.J. RTE. 90/94	*	· co	OK	247	101
PED. ROAD DIST	NO. 1	1LL1NDIS	FED, ALD PR	DJECT-	
(1919.15 & 20	21-922 PT	J) R-2			60A63

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 $f'_c = 3,500 p.s.i.$

* If M270 Gr. 50W (M222) steel is

and welding.

proposed, chemistry for plate to be

used shall first be approved by the

Engineer as suitable for galvanizing

fy = 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 Specificiations.

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 MI64 (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 nyion 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 MIII. 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.

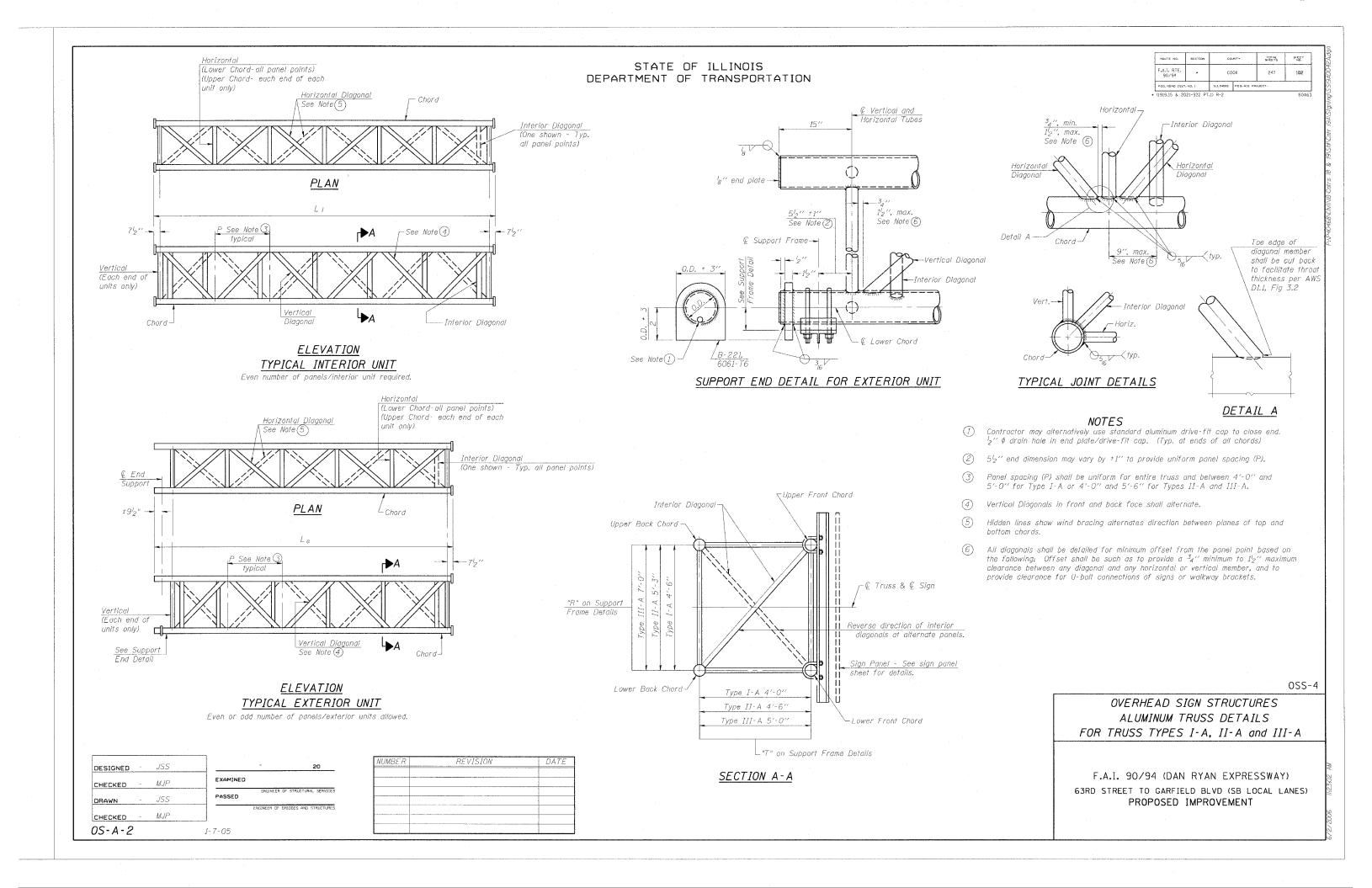
REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

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

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

0SS-3

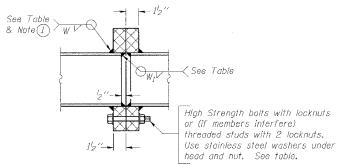
^{**}Looking upstation for structures with signs both sides.



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TRUSS UNIT TABLE

Structure		Design Truss	Exte.	rior Units	(2)		Interio	r Unit		1	Lower ord		zontals; Vertical, Interior Diagonals	Camber			Splicing	Flange		
Number	Station	Type	No. Panels per Unit	Unit Lath.(Le)	Panel Lath.(P)	No. Rea'd	No. Panels per Unit	Unit Lath.(L;)	Panel		Wall	0.D.	Wall	Midspan .	Bolts No./Splice	Dia.	Weld	Sizes Wı	А	В
1S0161094R058.3	3444+50.00	I - A	6	29'-412"	4'-7"	1	6	28'-9"	4'-7"	5"	516"	212"	5 ₁₆ "	2.6"	6	78"	5,6 "	14"	8 ³ 4"	1134"
1S0161094R058.1	3453+00.00	I - A	7	36'-3 ¹ 2"	4'-11"	0				5"	5/6"	212"	516"	1.8"	6	7 ₈ "	5/6"	4"	8 ³ 4"	1134"
A-12-12-12-12-12-12-12-12-12-12-12-12-12-														-						
							<u> </u>			<u> </u>							-			
												1								



SECTION B-B

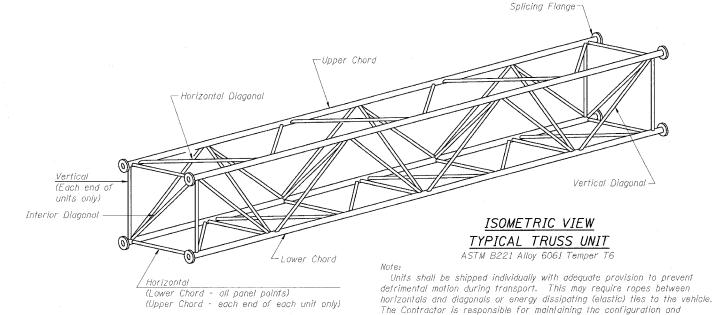
(1) Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining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

NUMBER	REVISION	DATE

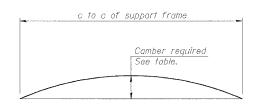
	-					
DESIGNED	-	JSS				20
CHECKED	_	MJP	EXAMINED			
DRAWN	-	JSS	PASSED	ENGINEER	OF STRUCTUR	IAL SERVICI
CHECKED	-	MJP		ENGINEER OF	BRIDGES AND	STRUCTURE

1-7-05

0S4-A-2



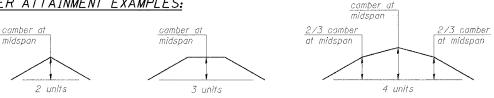
protection of the units.



CAMBER DIAGRAM

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

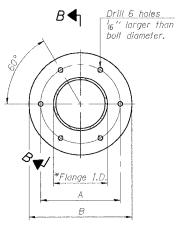
CAMBER ATTAINMENT EXAMPLES:



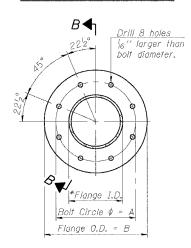
Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)

F.A.I. RTE. 90/94 CDOX 247 103	ROUTE NO.	SECTION	COL	JNTY	TOTAL	SHEET NO.
		×	CD	OK	247	103
FED. ROAD DIST. NO. 1 1LUINDIS FED. ATD PROJECT-	FED. ROAD DIST.	NO. I	1L LINOIS	FEO. ALC PRI		

• (1919,15 & 2021-922 PT.I) R-2



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



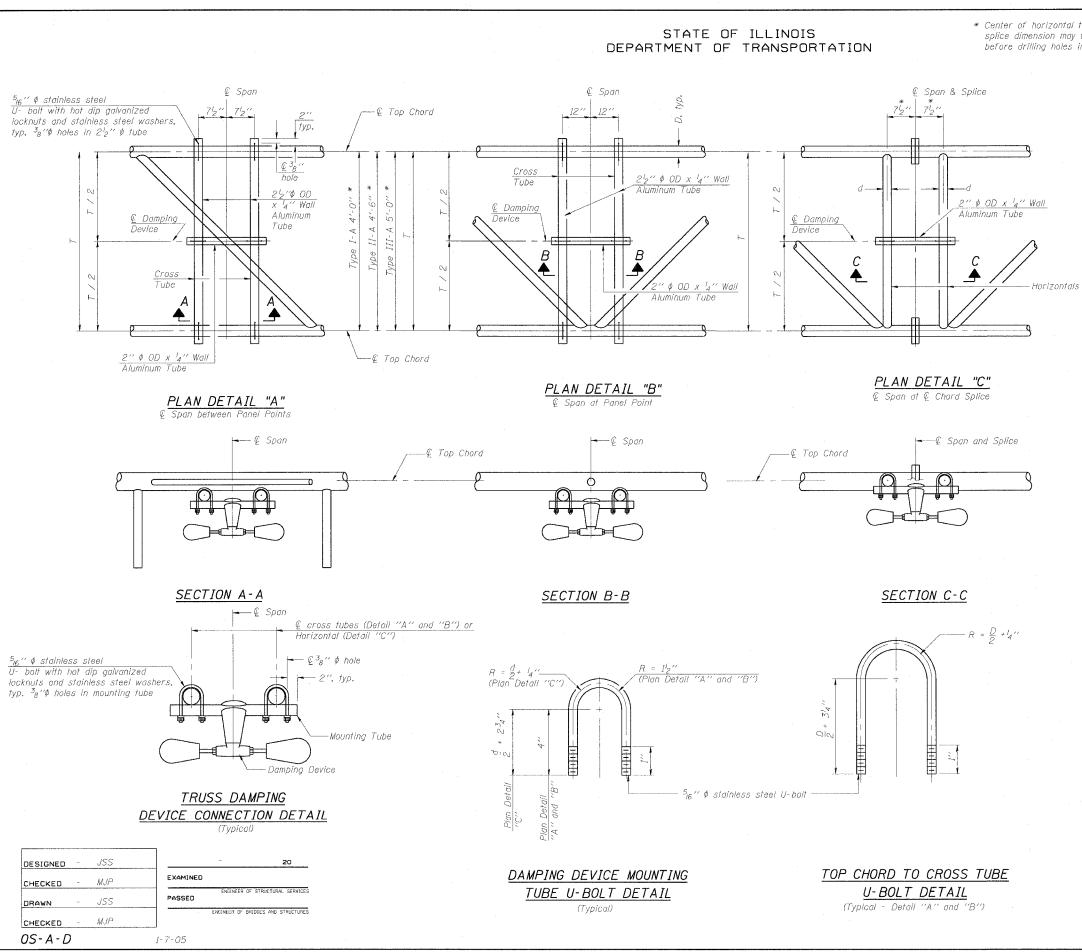
TRUSS TYPES II-A & III-A

SPLICING FLANGES

ASTM B221, Alloy 6061-T6 or ASTM B209, Alloy 6061-T651 *To fit O.D. of Chord with maximum gap of $\frac{1}{16}$ ".

0SS-5

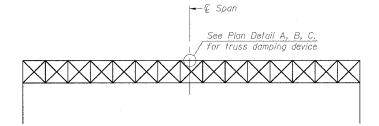
OVERHEAD SIGN STRUCTURES ALUMINUM TRUSS DETAILS FOR TRUSS TYPES I-A, II-A and III-A



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

ROUTE NO.	SECTION	coi	UNTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 90/94	•	co	OK .	247	104
FEB. MOAD GIST	NO. 1	FED, AID PRI	D. AID PROJECT-		
(1919.15 & 20	21-922 PT	.11 R-2			60A63

* (1919,15 & 2021-922 PT.11 R-2



ELEVATION Aluminum Overhead Sign Truss

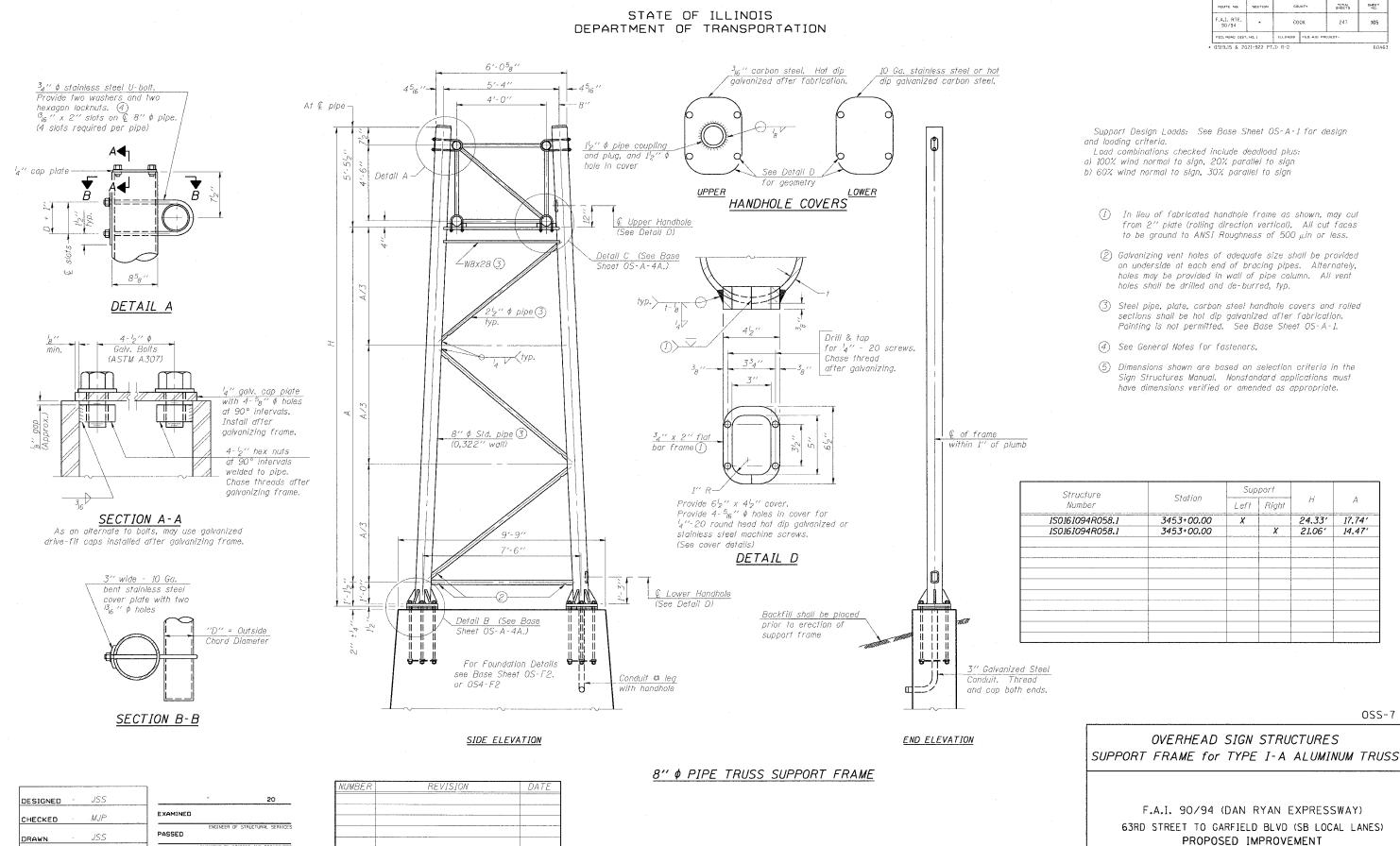
NOTES

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...

0\$\$-6

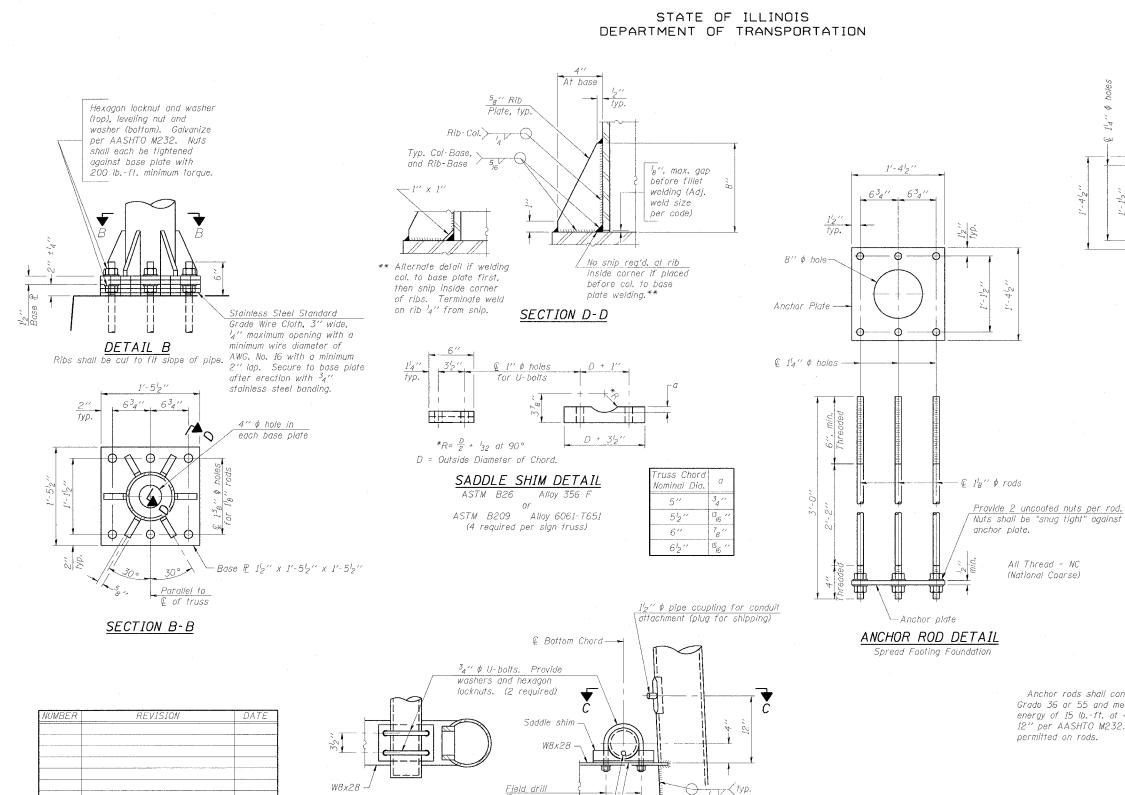
OVERHEAD SIGN STRUCTURE DAMPING DEVICE



OS-A-4

1-7-05

'2006 11:23:37 AM



Drain hole (See

Base Sheet OS-A-2.)

l_B'' fabric or

neoprene pad.

DETAIL C

paint

Touch-up holes

with galvanizing

SECTION C-C

(Handhole cover not shown)

DESIGNED

DRAWN

CHECKED -

CHECKED -0S-A-4A

MJP

EXAMINED

PASSED

1-7-05

ENGINEED OF RRIDGES AND STRUCTURES

F.A.L. RTE. 90/94 COOK 247 106

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

maintain perpendicularity.

POSITIONING PLATE(S)

- ф -

Φ.

 $\frac{l_2^{\prime\prime}}{typ_*}$

tvo.

At each location, provide (4" thick positioning plate(s) and six (6) additional nuts to be used with leveling nuts to maintain anchor bolts position during concrete placement. 14" plate and extra nuts become Contractor's property. Cost included in Drilled Shaft Concrete Foundations. € 1'8" ¢ rod All Thread = NC (National Coarse) Provide 1 uncoated nut per rod. Deform thread or use chemical thread lock to secure.

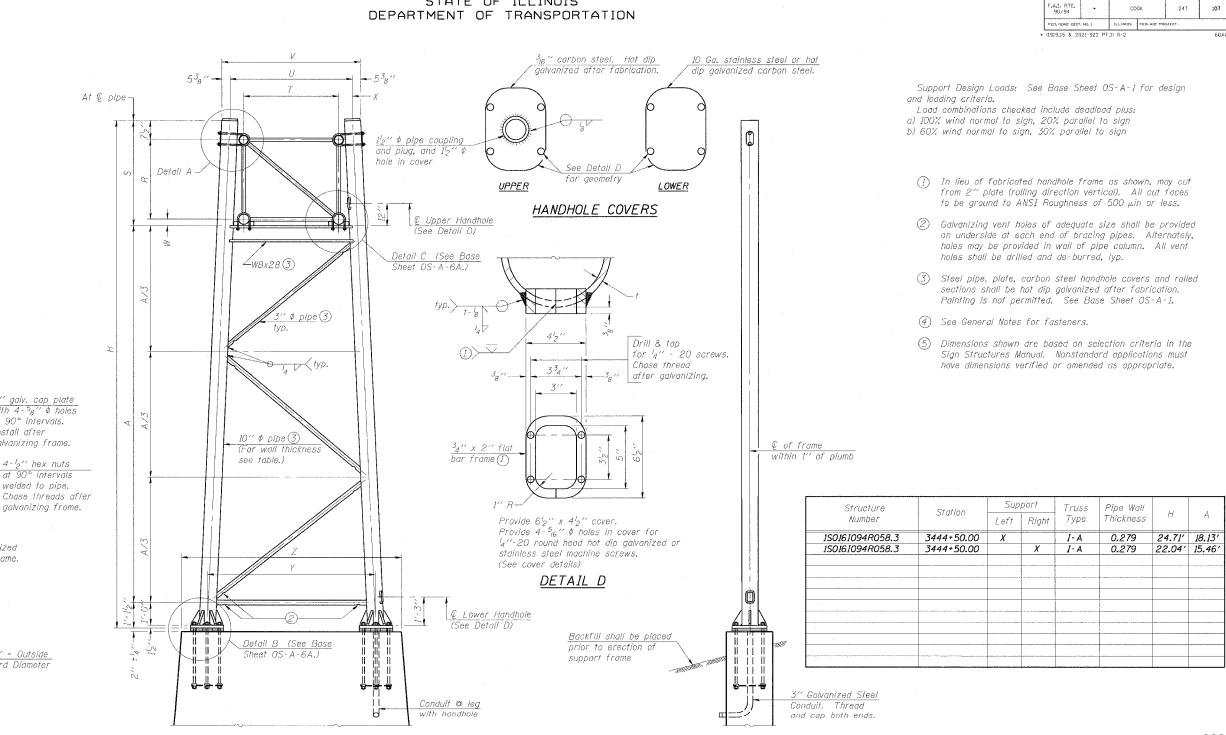
> ANCHOR ROD DETAIL Drilled Shaft Foundation

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

0SS-8

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

OVERHEAD SIGN STRUCTURES SUPPORT FRAME DETAILS ALUMINUM TRUSS



STATE OF ILLINOIS

OSS-9

TOTAL SHEZIS

SHEET NO.

OVERHEAD SIGN STRUCTURES SUPPORT FRAME for ALUMINUM TRUSS

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

10" \$ PIPE TRUSS SUPPORT FRAME

END ELEVATION

Truss					Dimensions	3			
Туре	R	S	T	U	V	W	X	Υ	Z
I- A	4'-6''	5'-5 ^l 2"	4'-0''	5′-6′′	6'-4 ³ 4"	4''	9''	8'-3''	11'-3''
II-A (5)	5′-3′′	6'-34"	4'-6''	6'-1''	6'-11 ³ 4''	434''	912"	8′-3′′	11'-3''

JSS DESIGNED CHECKED - MJP DRAWN CHECKED

20 EXAMINED PASSED ENGINEER OF BRIDGES AND STRUCTURES

 $\frac{I_4^{\prime\prime\prime}}{galv}$, cap plate with $4-\frac{5}{8}^{\prime\prime}$ ϕ holes at 90° intervals. Install after

galvanizing frame.

4-12" hex nuts at 90° intervals welded to pipe.

galvanizing frame.

"D" = Outside

For Foundation Details, see base sheet OS-F3 (Spread Footing) or OS4-F3 (Drilled Shaft).

SIDE ELEVATION

Chord Diameter

0S-A-6 1-7-05

³4" \$\phi\$ stainless steel U-bolt.

Provide two washers and two

(4 slots required per pipe)

В

1034

DETAIL A

Galv. Bolts

(ASTM A307)

SECTION A-A

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

3'' wide · 10 Ga. bent stainless steel

cover plate with two $^{3}_{16}$ $^{\prime\prime}$ ϕ holes

SECTION B-B

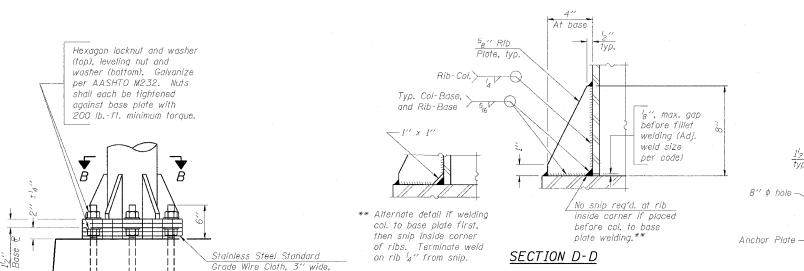
'4" cap plate

hexagon locknuts. (4) ¹³₁₆ " x 2" slots on © 10" ¢ pipe.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	ÇO	-NTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST	. ND. 1	irr inois	FED. ALD PRO	DJECT-	

* (1919.15 & 2021-922 PT.1) R-2



a'' maximum opening with a

2" lap. Secure to base plate

minimum wire diameter of

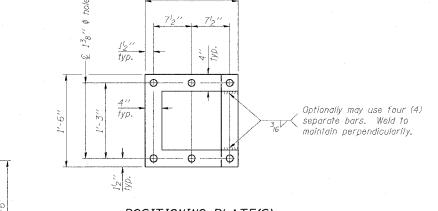
after erection with 34"

stainless steel banding.

·Base ₽ 1½'' x 1'-8'' x 1'-8''

5″ ¢ hole in each base plate

AWG. No. 16 with a minimum



POSITIONING PLATE(S)

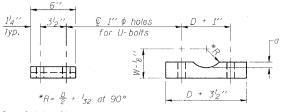
Provide 2 uncoated nuts per rod.

All Thread = NC

(National Coarse)

Nuts shall be "snug tight" against

At each location, provide 4" thick positioning plate(s) and six (6) additional nuts to be used with leveling nuts to maintain anchor bolts position during concrete placement. '4'' plate and extra nuts become Contractor's property. Cost included in Drilled Shaft Concrete Foundations. - € 1'4" \$ rod All Thread = NC (National Coarse) Provide 1 uncoated nut per rod. Deform thread or use chemical thread lock to secure.



D = Outside Diameter of Chord. For W, see Base Sheet OS-A-6.

SADDLE SHIM DETAIL

ASTM B26 Alloy 356-F

ASTM B209 Alloy 6061-T651 (4 required per sign truss)

€ Bottom Chord ---

Truss Chord Nominal Dia.	а	
5″	34"	
5½"	1316 "	
6''	78′′	
612''	15, ′′	
7''	1''	

 $1^{l_{2}}^{\prime\prime}$ ϕ pipe coupling for conduit attachment (plug for shipping)

ANCHOR ROD DETAIL

Anchor rods shall conform to AASHTO M314 Grade 36 or 50 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.

OSS-10

10" \$\phi\$ PIPE SUPPORT FRAME DETAILS

--- Anchor plate

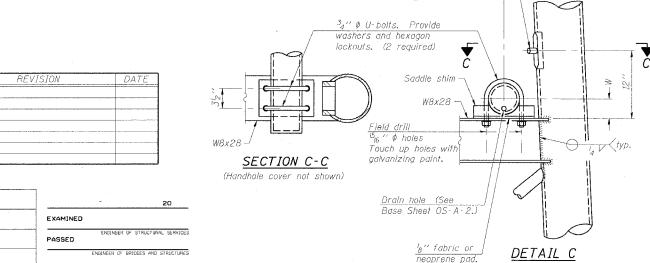
ANCHOR ROD DETAIL

- € 1'4" ¢ rods

anchor plate.

OVERHEAD SIGN STRUCTURES SUPPORT FRAME DETAILS ALUMINUM TRUSS

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



_ Parallel to

SECTION B-B

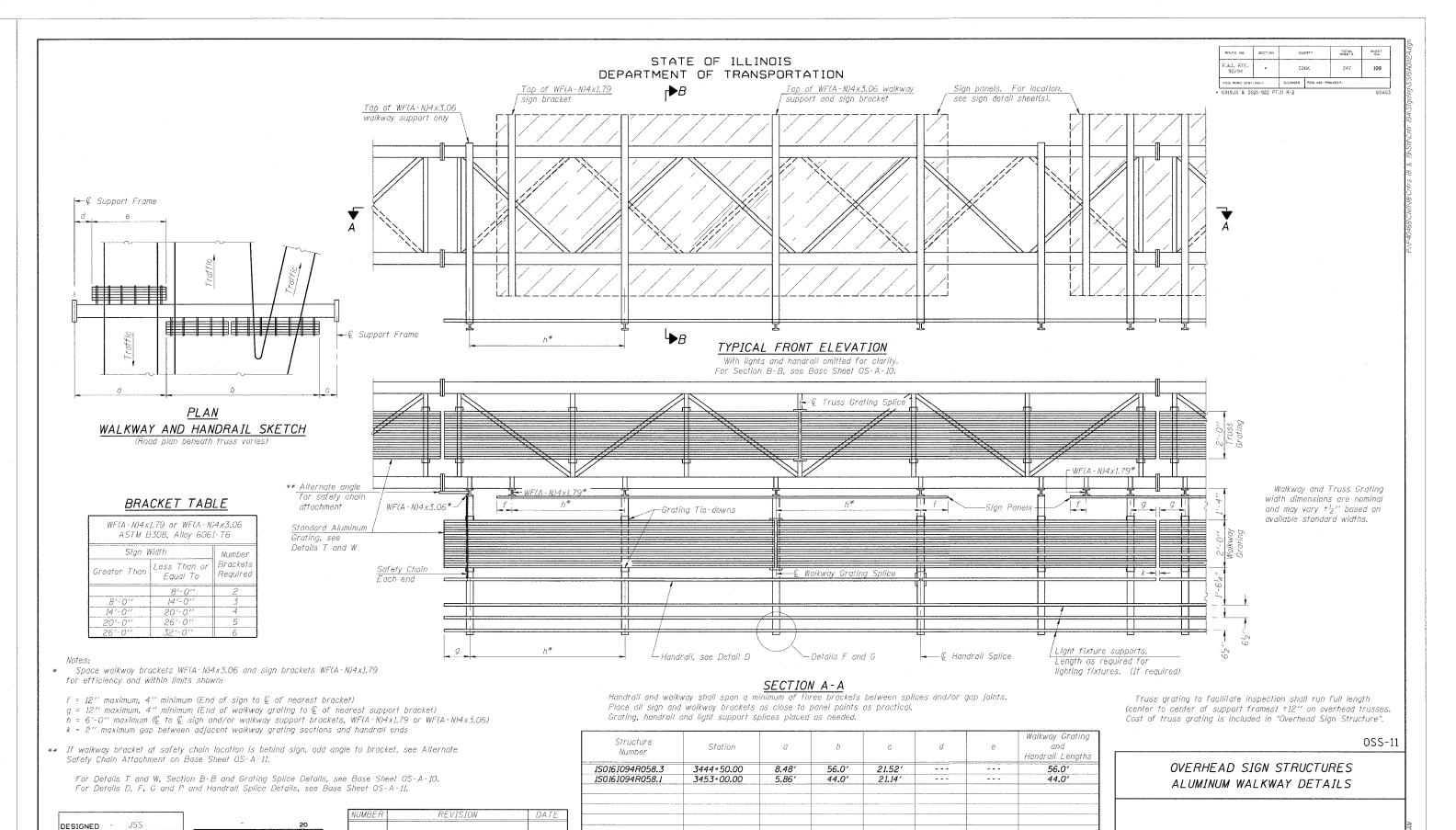
DETAIL B

Ribs shall be cut to fit slope of pipe.

JSS DESIGNED MJPCHECKED JSS CHECKED

0S-A-6A

1-7-05



EXAMINED

PASSED

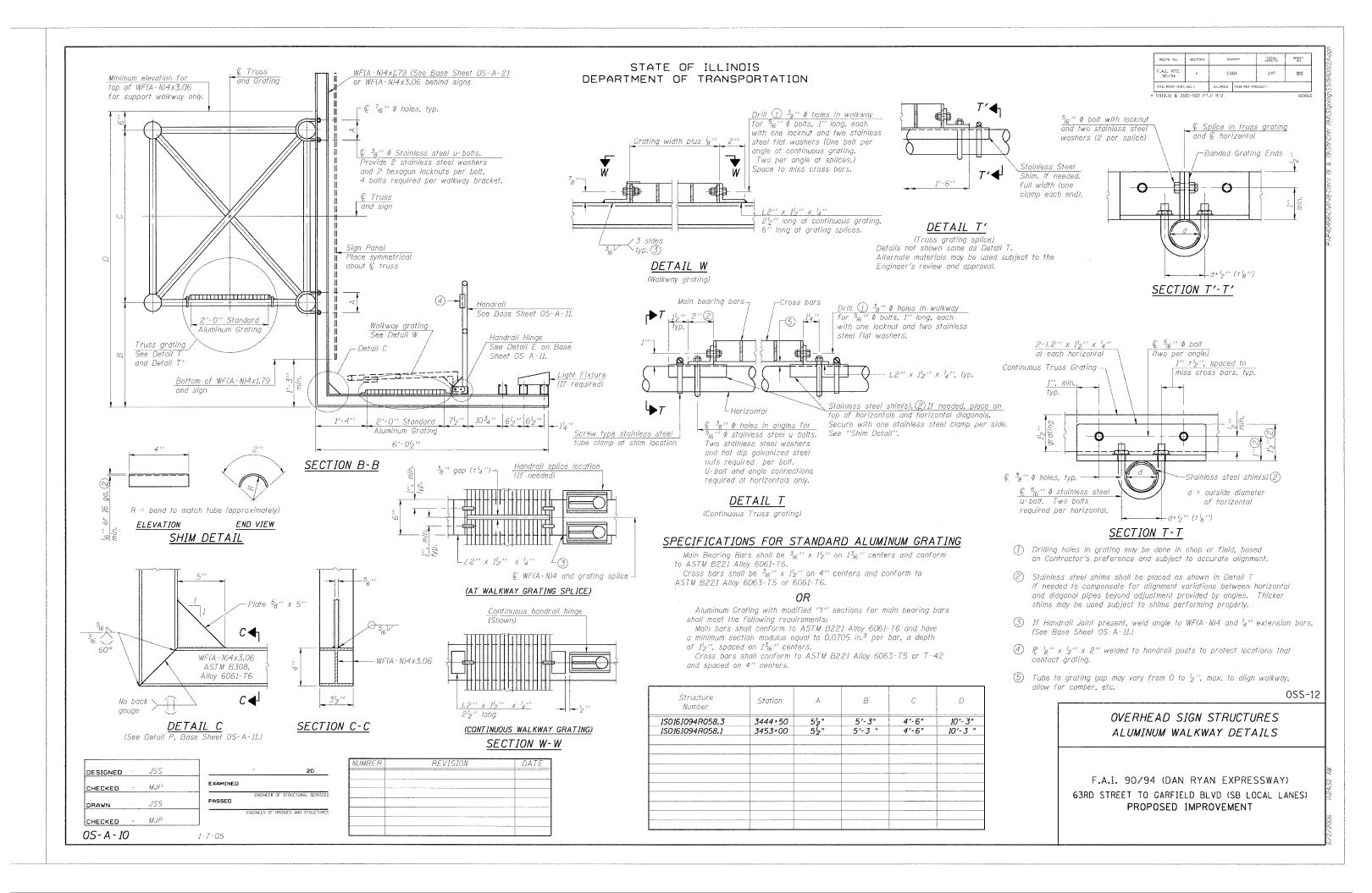
1-7-05

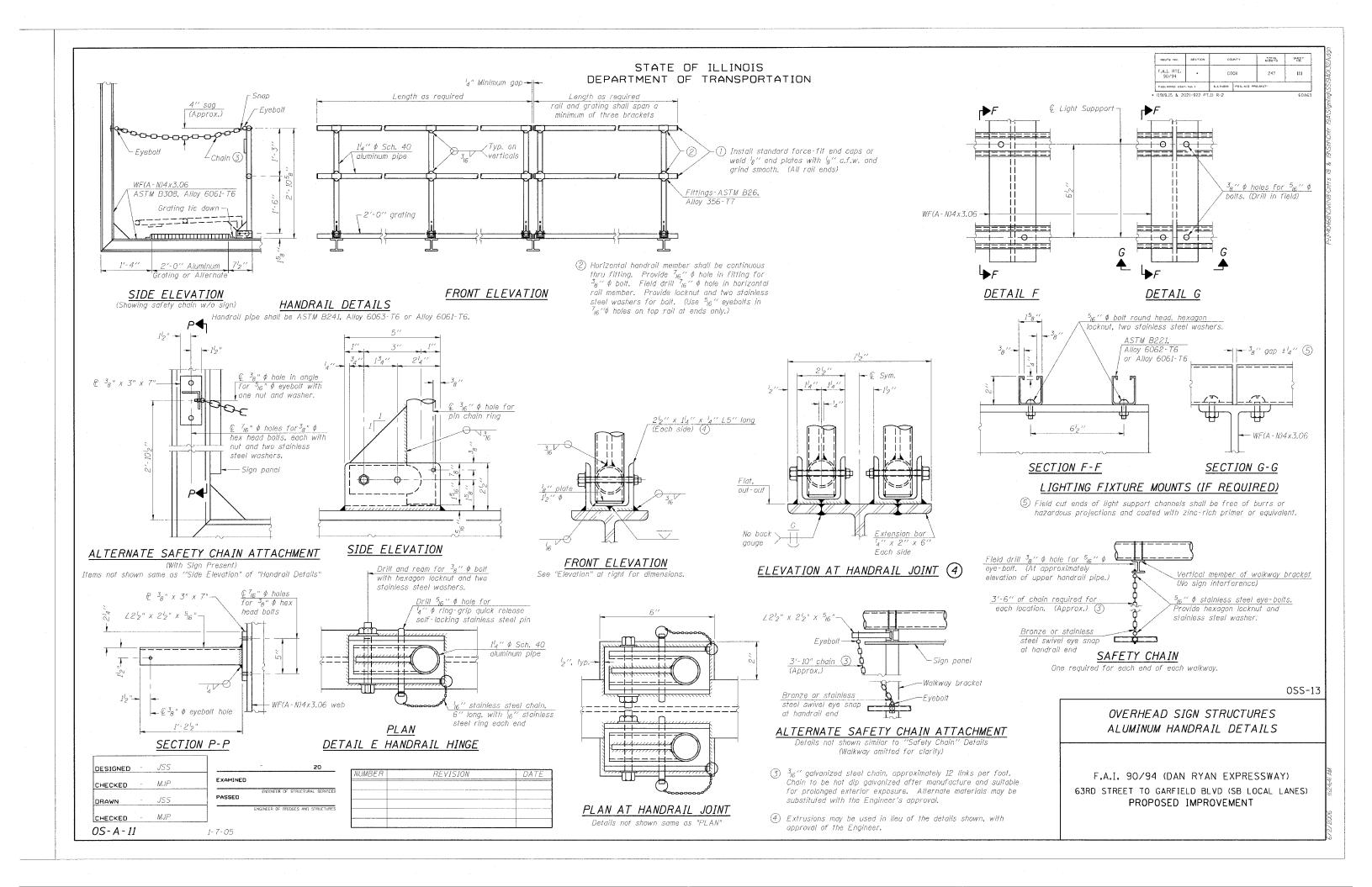
MJP

CHECKED

DRAWN

OS-A-9





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

8-#9 v 4E) bars

3 hoops minimum top and bottom

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

7'-6" & to &

•

2'-6" Ø

Approved clamps
\for grounding*

#6 copper

3₄" ♦ x 10'-0" copper weld ground rod driven into ground 9'-0". Cost of rod, cable, conduit, caps and clamps shall be included in Drilled Shaff Concrete Foundations.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

and cap both ends.

Elevation (Top)

Elevation (Bottom)

END VIEW

ROUTE NO.	SECTION	cos	PTM	TOTAL	SHERT
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FED. ROAD DIST	, NO. 1	1LLINOIS	PCD. ATD P76	ougot-	

• (1919.15 & 2021-922 PT.1) R-2

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4 (E)	16	#9	F less 5"	
#4 b	ar spiral (E) - see	Side Elevati	on

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.

SECTION A-A

10'-0	<i>"</i>
11/4" 63 ₄ " 7'-6'	6 ³ ₄ "

PLAN

SIDE ELEVATION

			Left Foundation				Right Foundation				Class SI	
Structure Station E	Elevation Top	Elevation Bottom	Α	· B	F	Elevation Top	Elevation Bottom	А	В	F	F Concrete (Cu. Yds.)	
1S0161094R058.1	3453+00			The state of the s			5.28′	-11.22'	2.0′	14.5′	16.5′	6.0

									**************************************	and the second and the second control of the	W10	

OSS-14

OVERHEAD SIGN STRUCTURES
DRILLED SHAFT DETAILS

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

DESIGNED	_	JSS		-	20
CHECKED	-	MJP	EXAMINED		
DRAWN	-	JSS	PASSED	ENGINEER (DF STRUCTURAL SERVICES
CHECKED	_	MJP		ENGINEER OF 6	BRIDGES AND STRUCTURES
0S4-F2			1-7-05		

NUMBER	REVISION	DATE
	The second secon	
	777.274.4444	
		1.

2'-6" \$

DETAILS FOR 8" \$ SUPPORT FRAME

TYPE I-A TRUSS

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

12-#9 v4(E) bars-

3 hoops minimum top and bottom

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

> Approved clamps for grounding

> > #6 copper

 $^34'' \phi \times 10'-0''$ copper weld ground rod driven into groun 9'-0". Cost of rod, cable, conduit, caps and clamps shall be included in Drilled Shaft Concrete Foundations.

wire or cable

8'-3" & to &

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Elevation (Bottom)

END VIEW

3'' ∮ Galvanized Steel

Conduit, Thread

and cap both ends.

ROUTE NO.	SECTION	cau	NTY	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 90/94		co	ок	247	113
FED, ROAD DIST	. NQ. 1	JLL INOJS	FED. AID PR	DJECT-	L

• (1919.15 & 2021-922 PT.i) R-2

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
V4(E)	24	#9	F less 5"	
#4 bo	ar spiral (i	E) - soe :	Side Elevatio	าก

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.

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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.

3'-0" Ø `—#4 bar spiral (E)

SECTION A-A

11'-3	
7½" 7½" 7½" 7½" 8'-3	7 ¹ 2" 7 ¹ 2" 7 ¹ 2"

PLAN

SIDE ELEVATION

C1212				Left Fou	undation			Rìght Fo	undation			Class SI
Structure Station Number	Elevation Top	Elevation Bottom	А	В	F	Elevation Top	Elevation Bottom	Α	В	F	Concrete (Cu. Yds.)	
ISO161094R058.3	3444+50		7 - 1				8.22'	- 10.28′	2.00′	16.5′	18.5′	9.7
		No. of the control of										
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												w
		· · · · · · · · · · · · · · · · · · ·										

OSS-15

OVERHEAD SIGN STRUCTURES DRILLED SHAFT DETAILS

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

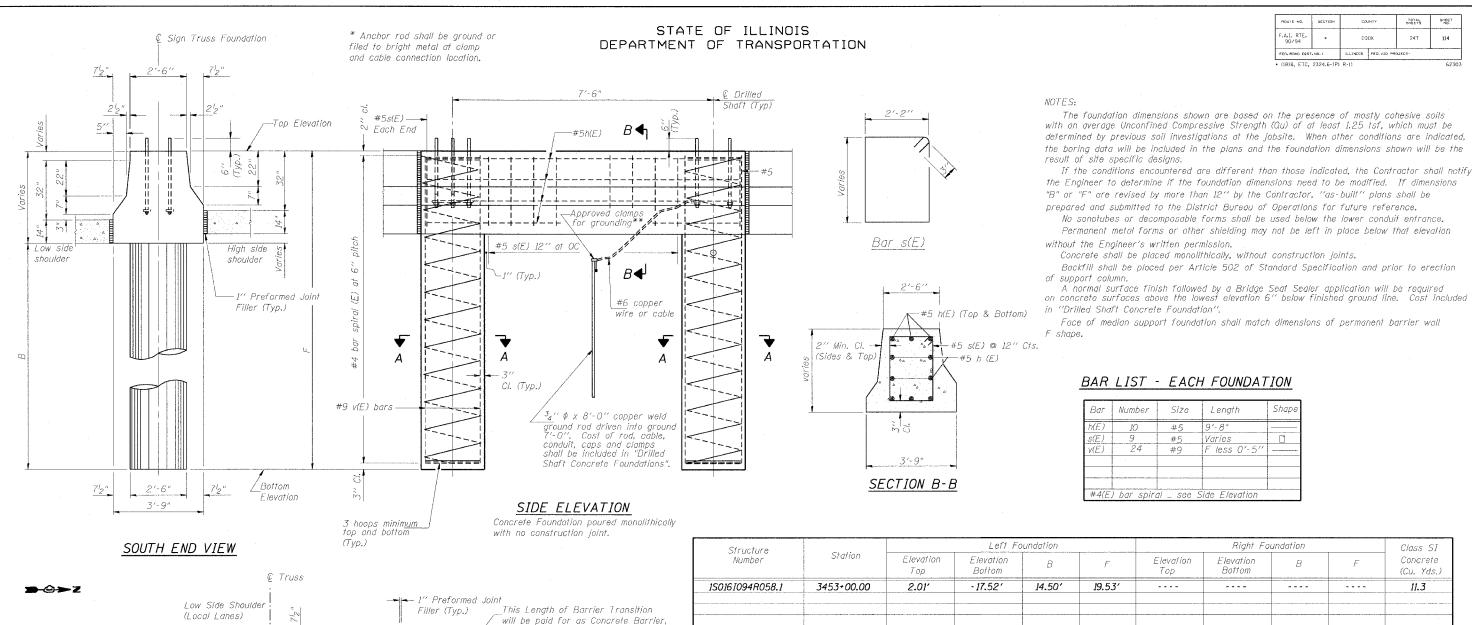
DESIGNED	-	JSS	
CHECKED	-	MJP	EXAMINED
DRAWN	-	JSS	ENGINEER OF STRUCTURAL SERVICES PASSED
HECKED	_	MJP	ENGINEER OF BRIDGES AND STRUCTURES

3'-0" ¢

NUMBER	REVISION	DATE
		i i
	· · · · · · · · · · · · · · · · · · ·	
		ļ

3'-0" ¢

DETAILS FOR 10" \$ SUPPORT FRAME TYPE I-A or II-A TRUSS



Double Face (Typ.)

6³4" High Side Shoulder (Typ.) (Express Lanes)

10'-0"

PLAN

Transition to Concrete Barrier,

JSS

MJP

JSS

EXAMINED

PASSED

MODIFIED BY CTE ENGINEERS, INC. FROM 0S4-MED

Double Face (Typ.)

DESIGNED

CHECKED

DRAWN

CHECKED

2'-6" ¢

SECTION A-A

Class SI Concrete (Cu. Yds.) ----11.3

OSS-16

TOTAL

247

114

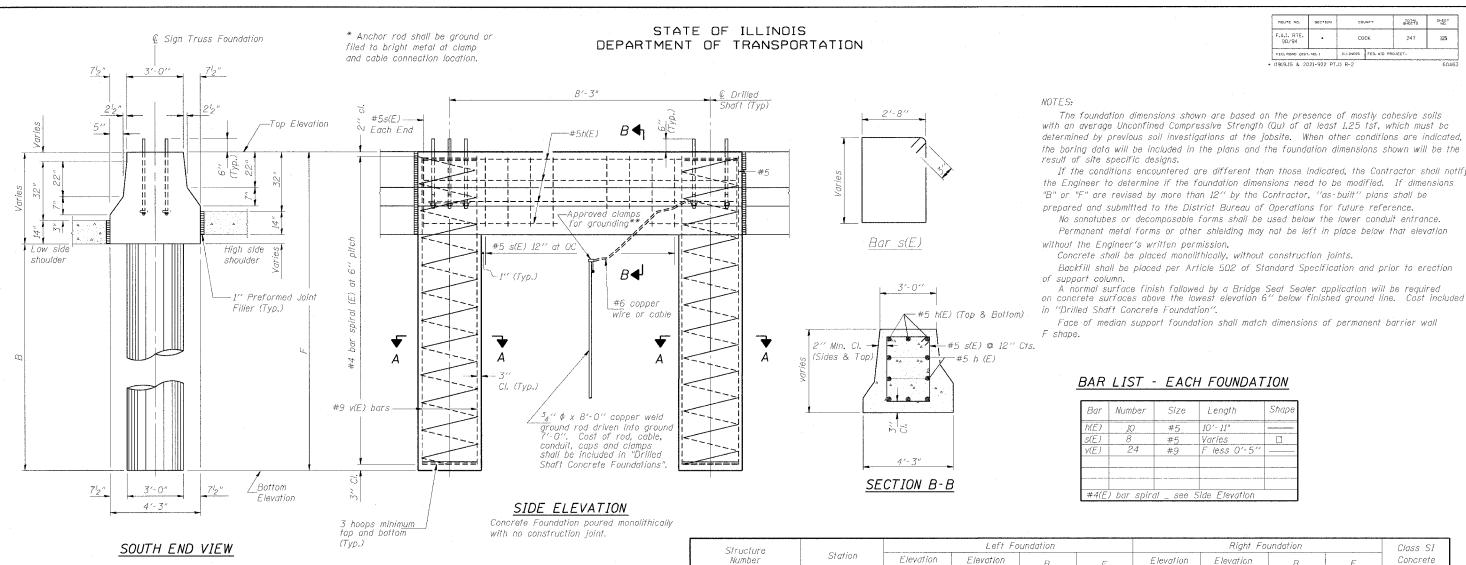
COOK

OVERHEAD SIGN STRUCTURES MEDIAN SUPPORT FOUNDATION DETAILS

PROPOSED IMPROVEMENT

F.A.I. 90/94 (DAN RYAN EXPRESSWAY) GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES) - #4(E) bar spiral

DOUBLE FACE MEDIAN SUPPORT FOUNDATION



TOTAL SHEETS SHEET NO. 247 115 COOK

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

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

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

- Backfill shall be placed per Article 502 of Standard Specification and prior to erection
- Face of median support foundation shall match dimensions of permanent barrier wall

Class SI Concrete B Bottom (Cu. Yds.) Bottom Top Top IS0161094R058.3 3444+50.00 5.55 - 15.94' 16.5 21.49' ----16.3

OSS-17

OVERHEAD SIGN STRUCTURES MEDIAN SUPPORT FOUNDATION DETAILS

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

DOUBLE FACE MEDIAN SUPPORT FOUNDATION

3'-0'' φ	
3" cl. #9 v(E) #4(E) bar spira	

SECTION A-A

MODIFIED BY CTE ENGINEERS, INC. FROM OS4-MED

EXAMINED

PASSED

>--->Z

Transition to Concrete Barrier,

JSS

MJP

JSS

Double Face (Typ.)

DESIGNED

CHECKED

DRAWN

CHECKED -

₡ Truss

Low Side Shoulder

('2" High Side Shoulder

(Express Lanes)

ENGINEER OF BRIDGES AND STRUCTURES

PLAN

20

(Local Lanes)

- 1" Preformed Joint

-This Length of Barrier Transition

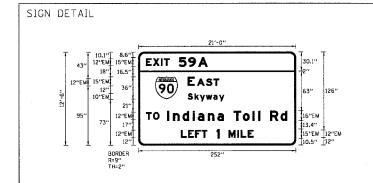
Double Face (Typ.)

will be paid for as Concrete Barrier,

© Truss Foundation

Filler (Typ.)

30

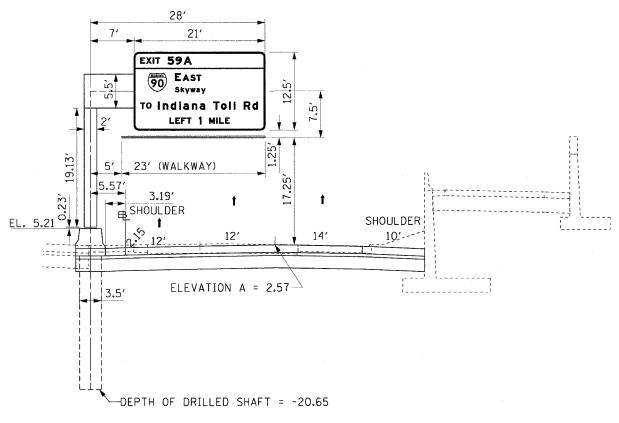


SIGN NUMBER	10016109	34R057.9
WIDTH x HEIGHT	21'-0" ×	12'-6"
BORDER WIDTH	2"	
CORNER RADIUS	9"	
MOUNTING	OVERHEA	ND.
BACKGROUND	TYPE:	REFLECTIVE
	COLOR:	GREEN
LEGEND/BORDER	TYPE:	REFLECTIVE
	COLOR:	WH]TE

SYMBOL	X	Y	WID	НТ
M1_1	26,7	73,9	36	36
	-			

							LET	TER !	POSIT	IONS	(X)					LENGTH	SERIES, S
E.	X	1	Т	5	9	Α										98.7	EM12,EM15
12	23.3	36.1	41	64.8	79.8	95.7										1 30.1	LIVITZ, LIVITS
E	Α	S	Ŧ									-				50.3	EM15,EM12
78.7	93.7	108.2	120.2													30.3	EMITO, EMITZ
S	k	У	w	а	У											58.5	EM10/7.5
78.7	89.9	98.2	108.1	120	129,1										36.3	EMIO71.3	
Т	0															21.3	EM12
12	23,4															21.5	LW12.
I	n	d	ī	a	n	٥		Т	0	ı	ı		R	d		192.2	EM16/12
45.8	55.4	70.6	86.9	94.9	111.2	126.3	136.5	152.5	167.3	182.7	191.8	194,8	210.8	227.8		132.2	EW10712
L	Ε	F	Т	1	М	1	L	E								115.7	EM12,EM15
68.1	79.4	90.7	101.2	125	144.2	158.3	163.8	175.1								115.7	EMIZ,EMIS

TYPE II-C-A CANTILEVER



1C016I094R057.9

MOUNTING DETAIL

PROPOSED OVERHEAD SIGN STRUCTURE

STA 3468+00.00 S.B. I-90/94

LOOKING SOUTH

NOTES:

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

REVISIONS
NAME
DATE
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (SB LOCAL LANES)
PERMANENT SIGN PANEL MOUNTING DETAILS
PROPOSED OVERHEAD SIGN STRUCTURES
STA. 3468+00.00
SCALE: NONE
DATE: June 9, 2006
CHECKED BY: MJP

CTE | AECOM

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 $f'_c = 3,500 \text{ p.s.i.}$

* If M270 Gr. 50W (M222) steel is proposed,

approved by the Engineer as suitable for

galvanizing and welding.

chemistry for plate to be used shall first be

fy = 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 Specificiations.

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 out or under both outs 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 Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO MIII. 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.

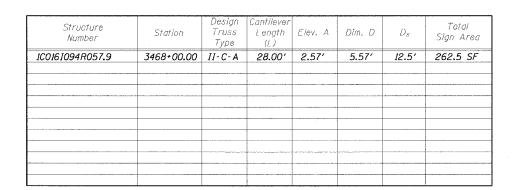
CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

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

OSS-19

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

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



I	russ Type -C-A I-C-A II-C-A	Maximum Sign Area 170 Sq. Ft. 340 Sq. Ft. 400 Sq. Ft.	Maximum Length 25 Ft. 30 Ft. 40 Ft.		r-€ Upper Chord
15'~0''' max.	· Ma	30 p.s.f. on ximum Sign Area (See Table)	10 p.s.f.	Max.	The opportunity
	МС	aximum Length (See T	Table)	30′- 0″	
					Bottom of Base Plate

DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for L.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	28.0
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A	Foot	
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	23
WWW. 17 AV 10 AV 1		
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	10.0

JSS 20 DESIGNED EXAMINED MIP CHECKED PASSED DRAWN NOTHER OF BRIDGES AND STRUCTURES

Alternate Direction of Horizontal

Diagonal Bracing for Each Bay in

Planes of Upper and Lower Chords

Upper Chord

Bracing, typ.

Lower Chord

Bracing, typ.

TYPICAL PLAN

(Walkway not shown)

Bay in Planes of Front and Back Chords

Walkway, railing and lights (if required)

omitted for clarity

Alternate Vertical Diagonal Bracing for Each

Cantilever Length (L) and Basis of Payment

Edge of

Pavemen

TYPICAL ELEVATION

Looking in Direction of Traffic

Sign support structures may be subject to damaging vibrations and

maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to

oscillations when sign panels are not in place during erection or

NUMBER

The state of the s

REVISION

(along € of truss)

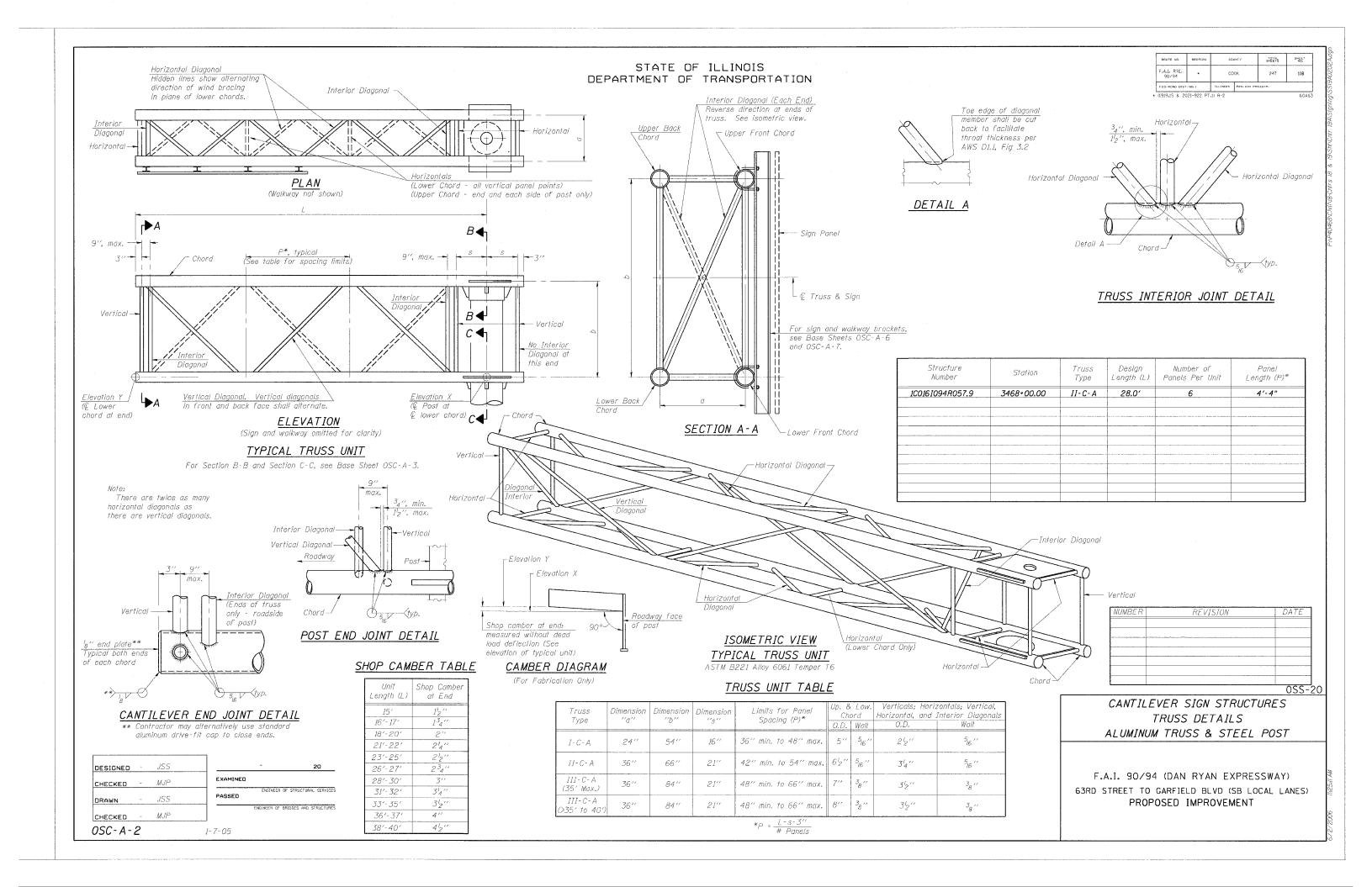
CHECKED OSC-A-1 1-7-05

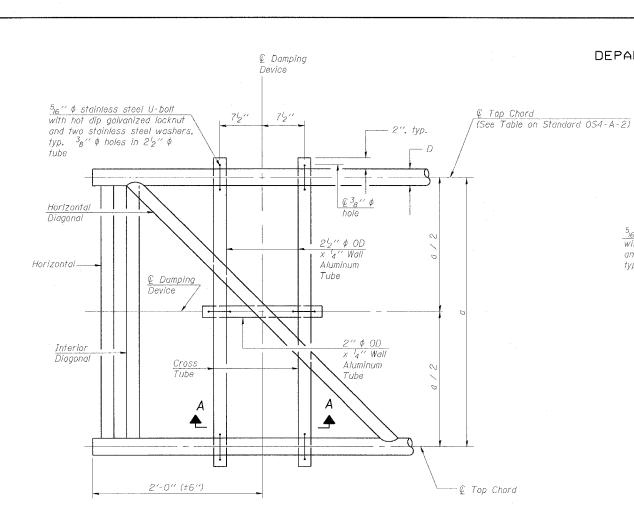
Elev. A

(Location varies)

Elev. A = Elevation at point of minimum

clearance to sign, walkway support or truss.



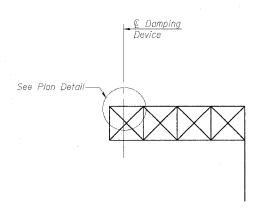


STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

 $\frac{s_{16} \circ \circ}{\text{with hot dip galvanized locknut}}$

and two stainless steel washers, typ. ${}^38{}''$ ϕ holes in mounting tube





ELEVATION Aluminum Cantilever

Sign Structure

GENERAL NOTES

Damper:

-€ Cross Tubes

-Mounting Tube

tyρ.

-Damping Device

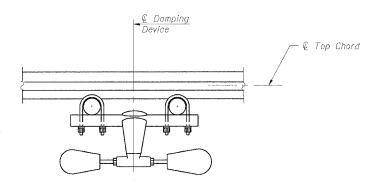
TRUSS DAMPING DEVICE CONNECTION DETAIL

One damper per truss. (31 lbs. Stockbridge-Type Aluminum)

Aluminum tubes shall be ASTM B221 alloy 6061

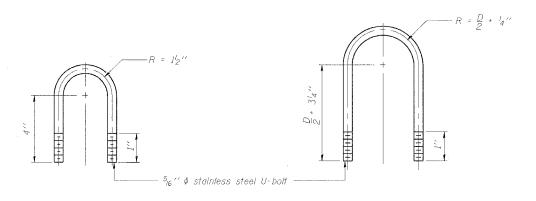
temper T6

PLAN DETAIL



SECTION A-A

DESIGNED	-	JSS		
CHECKED	_	MJP	EXAMINED	
DRAWN	-	JSS	ENGINEER OF STRUCTURAL SE	RVICE
CHECKED		MJP	ENGINEER OF BRIDGES AND STRU	CTURES



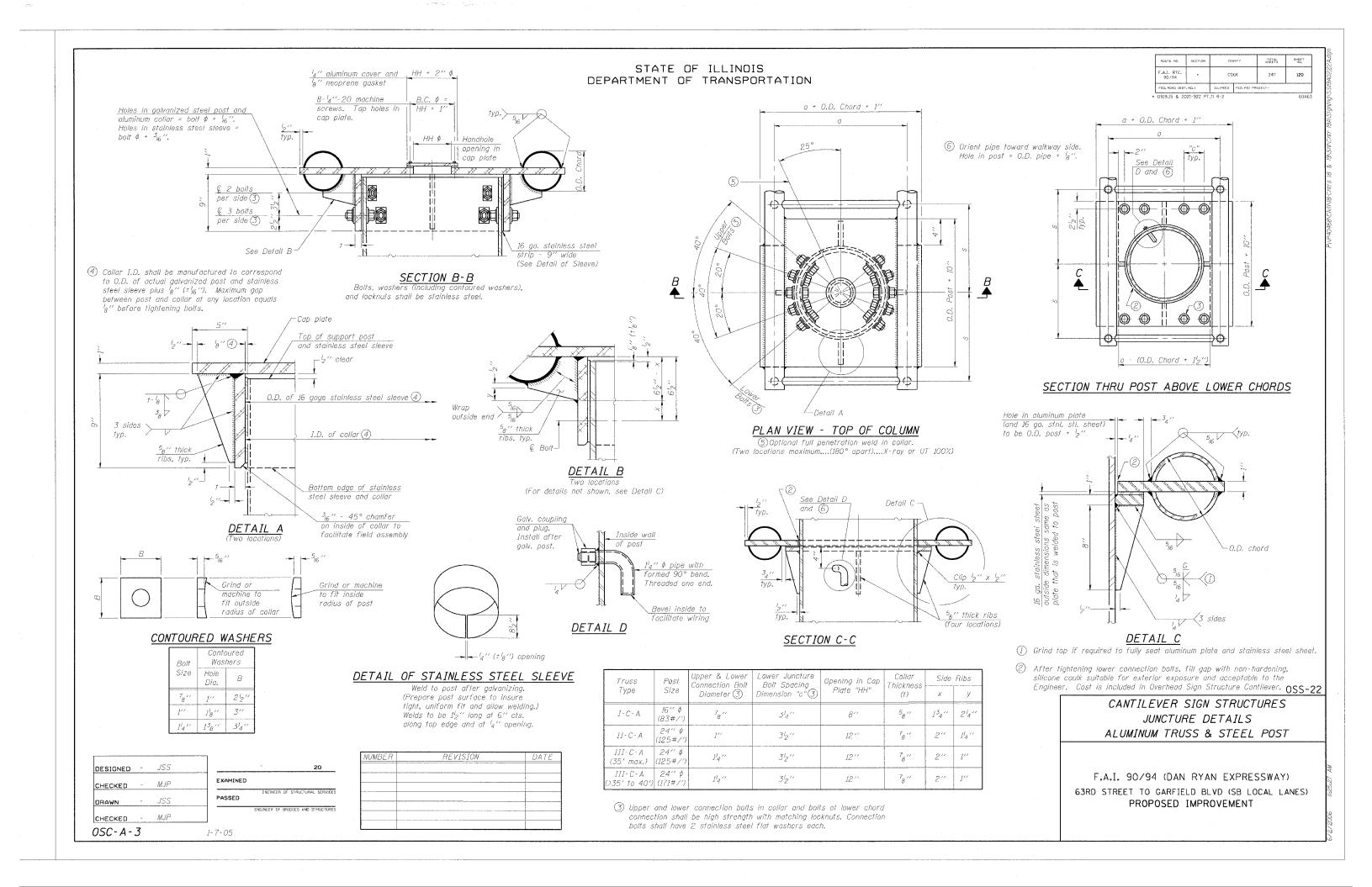
DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL

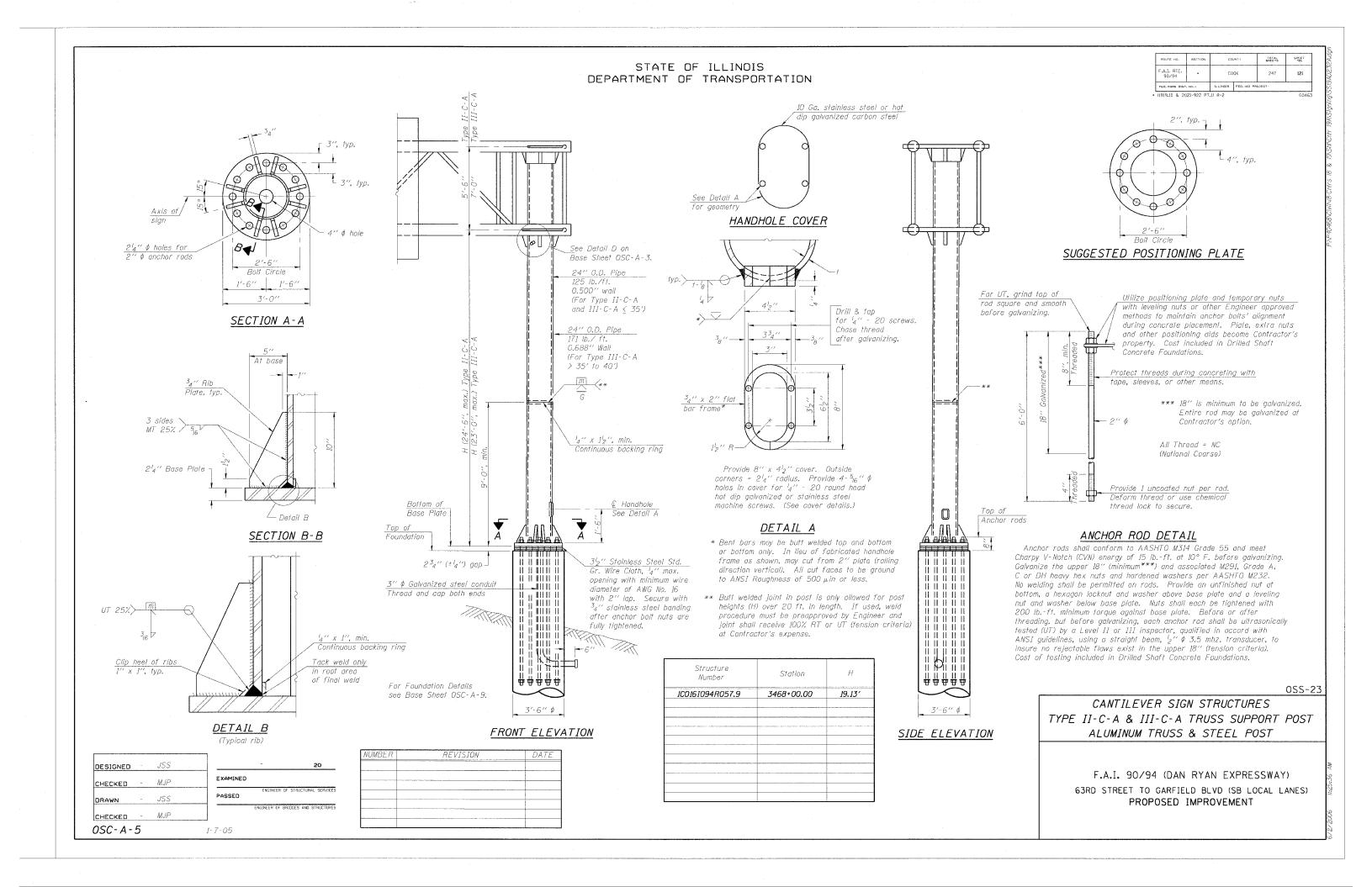
(Typical)

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

OSS-21

CANTILEVER SIGN STRUCTURE DAMPING DEVICE

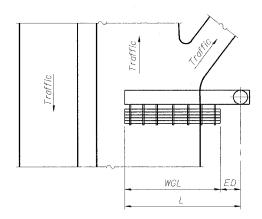




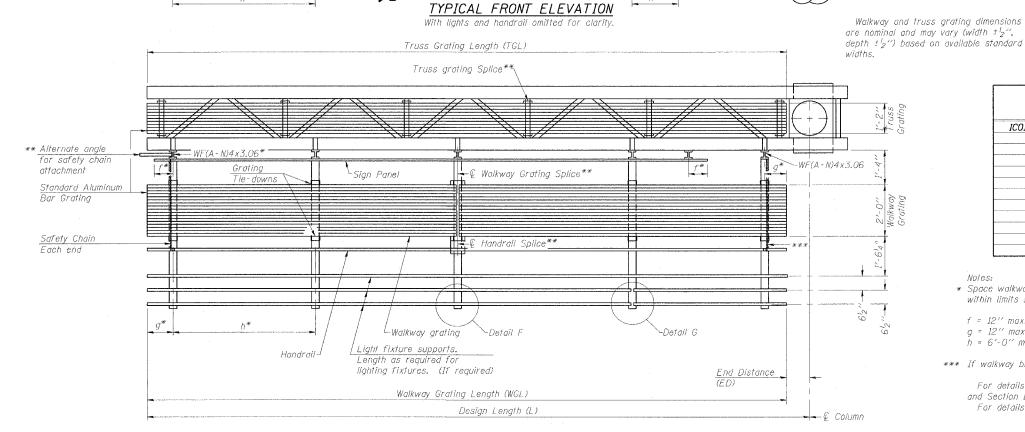


Top of WF(A-N)4x3.06 (Walkway Support Only)





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



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

MJP

EXAMINED

PASSED

1-7-05

DESIGNED

CHECKED

CHECKED 0SC-A-6 Top of WF(A-N)4x3.06 walkway

 $\triangleright B$

support and sign bracket

SECTION A-A

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.

REVISION	DATE
The state of the s	

BRA	CKET	TABL	Ε

WF(A-N)4x1.79 or WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6						
. Sign V	Vidth	Number				
Greater Than	Less Than or Equal To	Brackets Required				
And a state of the contract of	8'-0''	2				
8'-0''	14'-0''	3				
14'-0''	20'-0''	4				
20'-0''	26'-0''	5				
26'-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 (SB LOCAL LANES) PROPOSED IMPROVEMENT

Structure Station WGL EDTGL1C016I094R057.9 3468+00.00 23.0' 26.5' 5.00'

* 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 ${\Bbb C}$ of nearest bracket) g = 12" maximum, 4" minimum (End of walkway to ${\Bbb C}$ of nearest bracket)

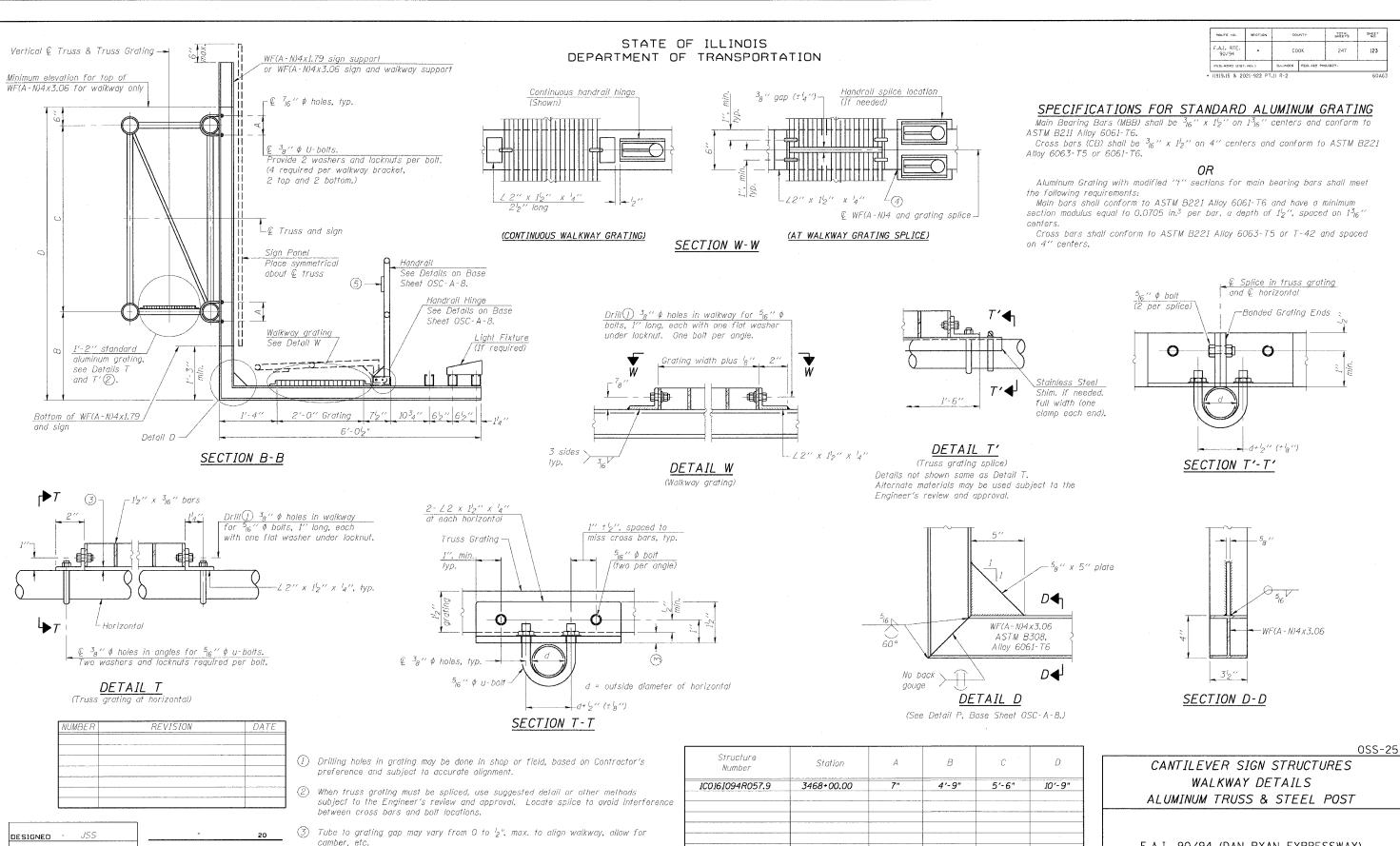
h = 6'-0'' maximum (€ to € sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)

*** 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.

OSS-24



EXAMINED

PASSED

1-7-05

(4) If Handrail Joint present, weld angle to WF(A-N)4 and ${}^{l}_{4}$ " extension bars.

 $\boxed{5}$ \mathbb{R}^{l}_{8} " \times $^{l}_{2}$ " \times 2" welded to handrail posts to protect locations that contact grating.

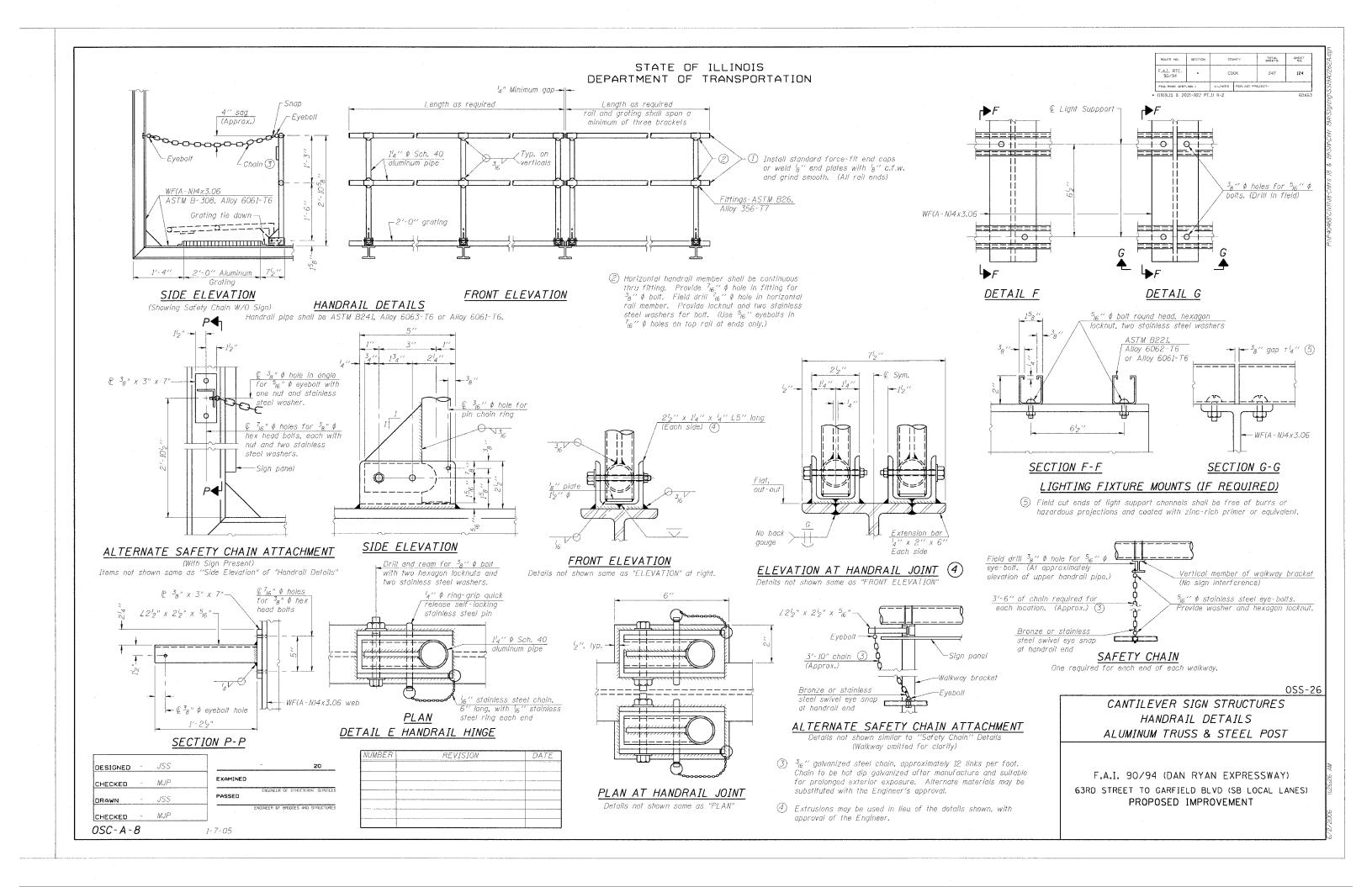
(See Base Sheet OSC-A-8)

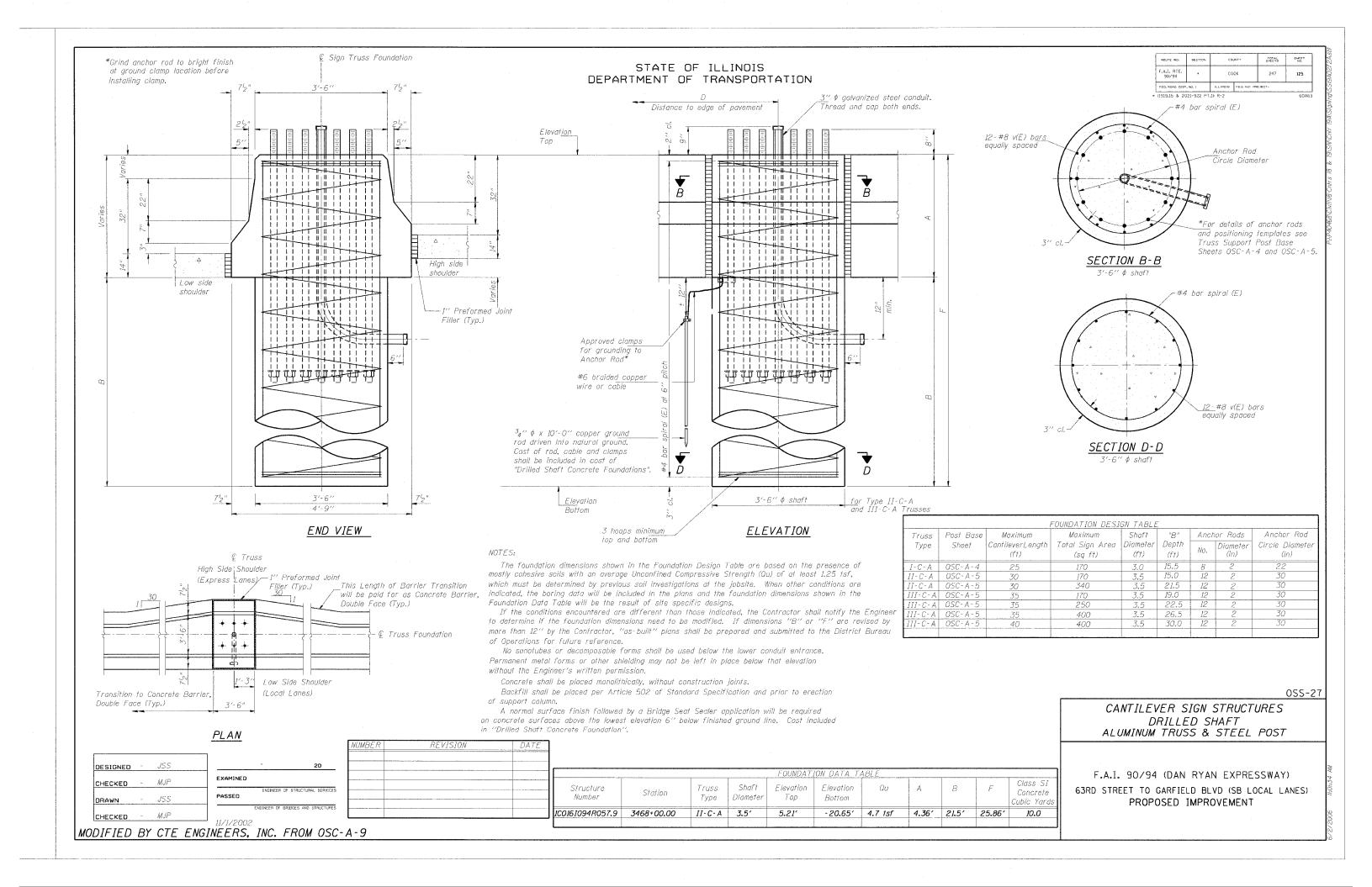
MJP

JSS

CHECKED

CHECKED OSC-A-7





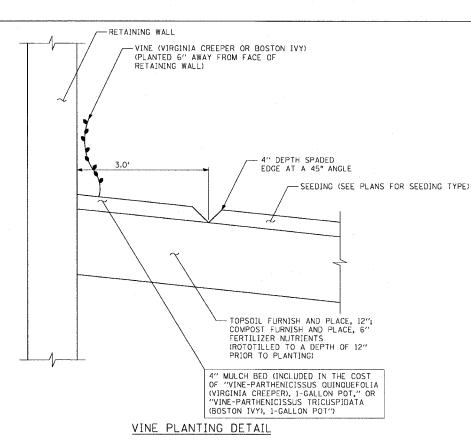
Illinois Department of Transportation SOIL BORING LOG Page 1 of 1 Date _8/12/03	of Transportation SOIL BORING LOG	Illinois Department of Transportation SOIL BORING LOG pote _3/21/03.	Illinois Department of Transportation SOIL BORING LOG	F.A.1 SECTION COUNTY TOTAL SHEETS NH SHEETS SHEET
ROUTE [F.A.]. 1-90 / 1-94 DESCRIPTION Don RNON EXPRESSMOY (D-91-419-01) LOGGED BY A.P. (2021-92971) 2 & SECTION 2122-921PTI1 R-4 LOCATION Chicago, Illinois	ROUTE <u>f.A.h.</u> 1-90 / 1-94 DESCRIPTION <u>Don Ryon Expressway 10-91-419-011</u> LOGGED BY <u>A.P.</u> (2021-92297-11-2 & SECTION <u>2122-921P113 H-4</u> LOCATION <u>Chicage</u> , Illinois	ROUTE F.A.), 1-90 / 1-94 DESCRIPTION DON RYON EXCESSION (D-91-419-01) LOGGED BY A.P., 1204-9291 1, 2 A SECTION 2122-921P11) R-4 LOCATION Chicago, Illinois	ROUIE F.A.L.1-90 / 1-94 DESCRIPTION <u>On Ryon Expressions (0-91-419-01)</u> LOGGED BY <u>A.P.</u> (2021-02971-12 & SECTION 2122-921PI1) R-4 LOCATION Chicago, Illinois.	
COUNTY COOK DRILLING METHOD Hollow Stem Auger NAMMER TYPE Automotic	COUNTY COOK DRILLING METHOD HOLLOW STEM AUGUS HAMMER TYPE Automatic	COUNTY COOK DRILLING WEINED HOLLOW Stem Augor HAMKER TIPE Automotic	CDUNITY Cook DRILLING METHOD Hallow Stem Auger MAMMER TYPE Automatic	
Ground Surface Liev_18_38_ et ft /6" k tef (12) After lies et /6" k tef (3) Aspholit. e	Ground Surface Erex. 3.01 +1 ff1 /67 % x set (%)	Concrete: 10" 13:17	GOOD SUPPORE INVESTIGATION OF THE STATE OF T	
11 10 4.3 (5.70) -9 13 Hord / Dense	6 1.6 17.0 14 4.2 17.0 28 16 5 5	Possible Back Fill) 9 LOAM 24.314.6 4.314.6 6 6	9 5.113.0 -16 13 6.5	
6 SILTY CLAY LOAM / SILTY 10 18 5.6 117.0 26 S	3 9 9 11 5.6 12.0 4 2.7 17.0 11 5.6 12.0 Very \$\$11ff to Hord	8 5 7 4.7 12.0 8 10 8		
5 -10 17 7.5 13.0 -10 4 -36 21 5 -10	SILTY CLAY LOAM	- 8 - 7 - 10 3.9 113.0 - 38 14 8 - 38 14 8	15 17.0 15.0 17.0 15.0 17.0	
4	16 - 1 5.2 13.0 - 24 B	3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		
7 12 19 10.0	-14 7.2 11.0 -20 35 17.0 -35 17.0 -35 21 5 End of Barling -31.99 -35 (50)	Groy SILTY LOAM - 2 - 4 - 7 - 15.0 - 9 - 9 - 8 - 9 - 9 - 8	- 15	
Gray CLAY 5		1 2 21.0 4 Very Stiff -3.50 4 4		
7 10 2.2 18.0	ter The Importings Compressive Streamth (INS) Editing Mode is Indicated by (N-Buyer, S-Penetrope-	Cray LOAM	The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (R-Bulge, S-Shear, P-Penetrometer)	
885. From 137 (Rev. 8-99)	BBS- From 137 (Rev. 8-99)	885. From 137 (Rev. 8-99)	The Broomfined Compressive Strength (USS) Failure Mode is indicated by (R-Bulge, S-Sheer, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (ASMID 1206) BBS, from 137 (Rev. 8–99)	
Illinois Department SOIL BORING LOG	Illinois Department of Transportation SOIL BORING LOG Page 1 of 1 Online (Property) Date 5/22/03			
	BUTSET AT HISTORY Date 5,722/93			
COUNTY	COUNTY Cook DRILLING METHOD HOLLOW Step Auger HANNER TYPE Automotic			
BORING NO. STB-49 Shation 3:55-43.11 Dffset 14.79f1 (58.001) Ground surface Elev-0.35 ft ft //6* 2 tsf1 (79.15) Apphalty 7:79-32 Very Stiff to Nard / Defrae	BURING NO. SIB-22 T W S U S Groundwater Elev.: T H S U S Forundwater Elev.: T First Encounter -11.1 ft \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
Asphalit, 2"	Asphol*1, 4"			
15 15 17 17 17 17 17 17	3 26 38 010 13.0 7 8 27 8			
Very STITY 6	7 3.6 18.0			
- 7 - 9 - 9 - 14 7.2 13.0 - 10.35 - 10 15 B - 30 17 5	4 3.4 16.0 End of Boring -1.55 -10 6 B -1.50 -10 6 B			
Very STIFF to Nord / Dense	Very S1147 Groy CLAY LOAM 5 2.217.0 8 8			
10 21 21 21 21 21 21 21 21 21 21 21 21 21	-12.55 -15 tt B -35			
End of Boring	Very Stiff Groy Silty Clay LDAM 9 18 7.2 12.0 35 5			
9 12 6.3 13.70 700 10 1 B	20			
The Unconfined Compressive Strength (UCS) Follure Mode 1s Indicated by (8-Burge, S-Shear, P-Penetromet The SPI (N value) is the eum of the test two blow values in each sampling zone (AASTO 2005) 825. "For 177 (New 8-99)	The linconfined Compressive Strength (UCS) Failure Mode is indicated by (8-Buige, S-Shear, P-Penatronet the SPT (N value) is the sum of the last two blow values in each sampling zone (AASHO 2020) ABS- From 131 (New 2-93)	er)	REVISIONS NAME DATE	OSS-2 ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
				63RD STREET TO GARFIELD BLVD (SB LOCAL LANES

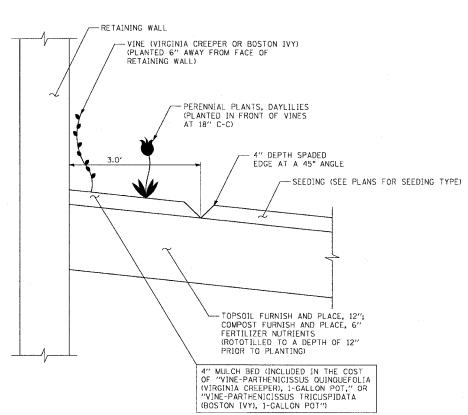
SOIL BORING LOGS FOR SIGN STRUCTURE FOUNDATIONS

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

CHECKED BY: MJP

CTE AECOM





VINE AND DAYLILY PLANTING DETAIL

GENERAL PLAN NOTES - LANDSCAPING:

- 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.
- 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 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 QUINOUEFOLIA (VIRGINIA CREEPER), 1-GALLON

 VINE-PARTHENOCISSUS TRICUSPIDATA (BOSTON IVY), 1-GALLON

 HEMEROCALLIS "STELLA D'ORO" (STELLA D'ORO DAYLLY), 1-GALLON

 SHRUB, SYRINGA X PERSICA (PERSIAN LILAC), 3' HEIGHT, BALLED AND BURLAPPED.

 SHRUB, RHUS AROMTICA GRO-LOW (GRO-LOW FRAGRANT SUMAC), 18" CONTAINER,
- 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.
- 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 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"

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	234
VINE - PARTHENOCISSUS TRICUSPIDATA	BOSTON IVY	1-GALLON	3' C-C	EACH	108
SHRUB, RHUS AROMTICA GRO-LOW	GRO-LOW FRAGRANT SUMAC	18" CONTAINER	3' C-C" STAGGERED	EACH	144
SHRUB, SYRINGA X PERSICA	PERSIAN LILAC	3' HEIGHT - BALLED AND BURLAPPED	3' C-C" STAGGERED	EACH	463
PERENNIAL PLANTS, DAYLILIES	STELLA D'ORO	1-GALLON	18" C-C"	UNITS	4.67

REVISIONS NAME	DATE		T OF TRANSPORTATION RYAN EXPRESSWAY)
			LD BLVD (SB LOCAL LANES)
		I ANDSCADING NO	DIES AND DETAILS
		LANDSCAPING NO	TIES AND DETAILS
		SCALE: NONE	DRAWN BY: PHP
		DATE: June 9, 2006	CHECKED BY: RMG

COUNTY TOTAL SHEE

247 127

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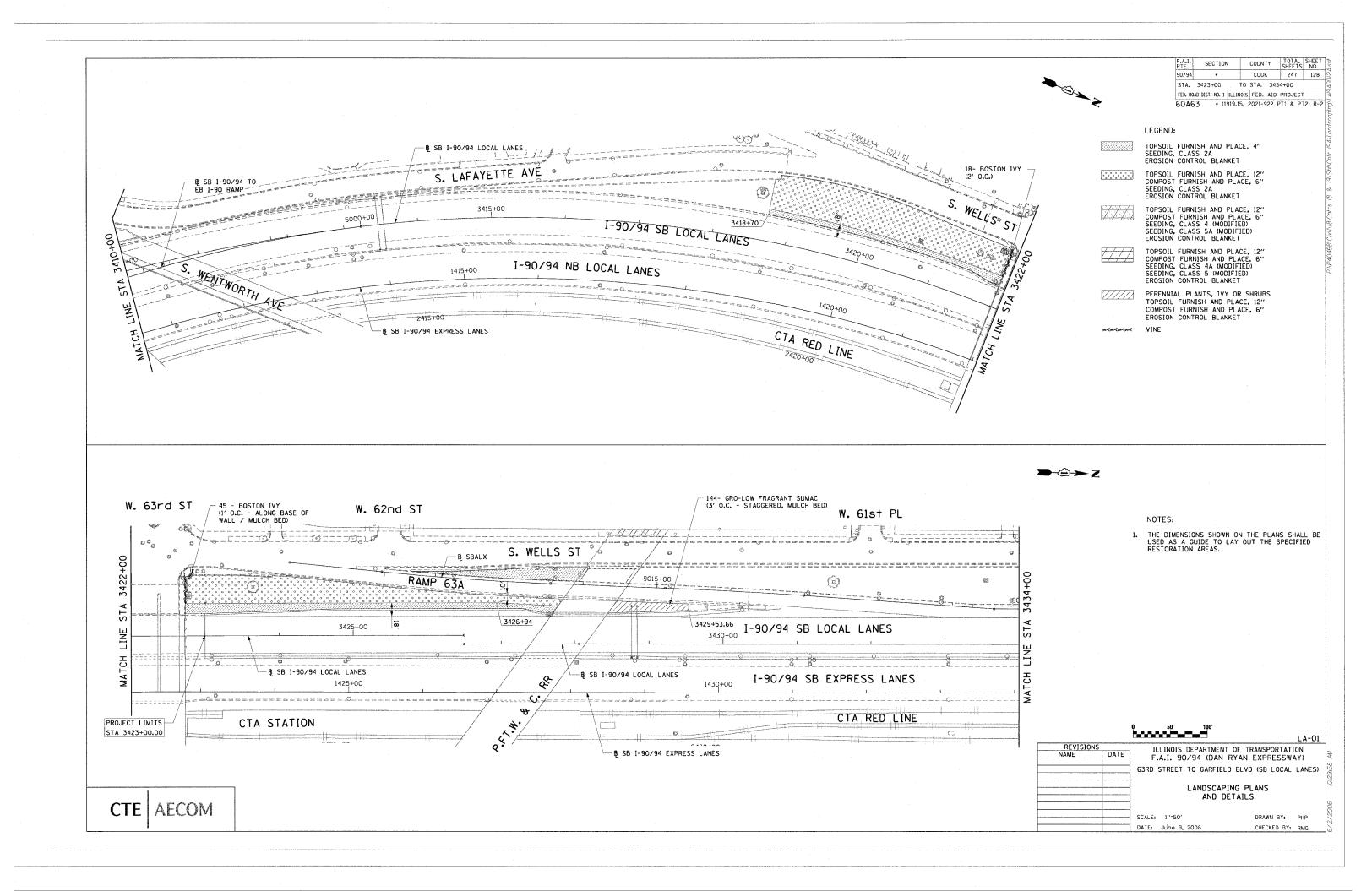
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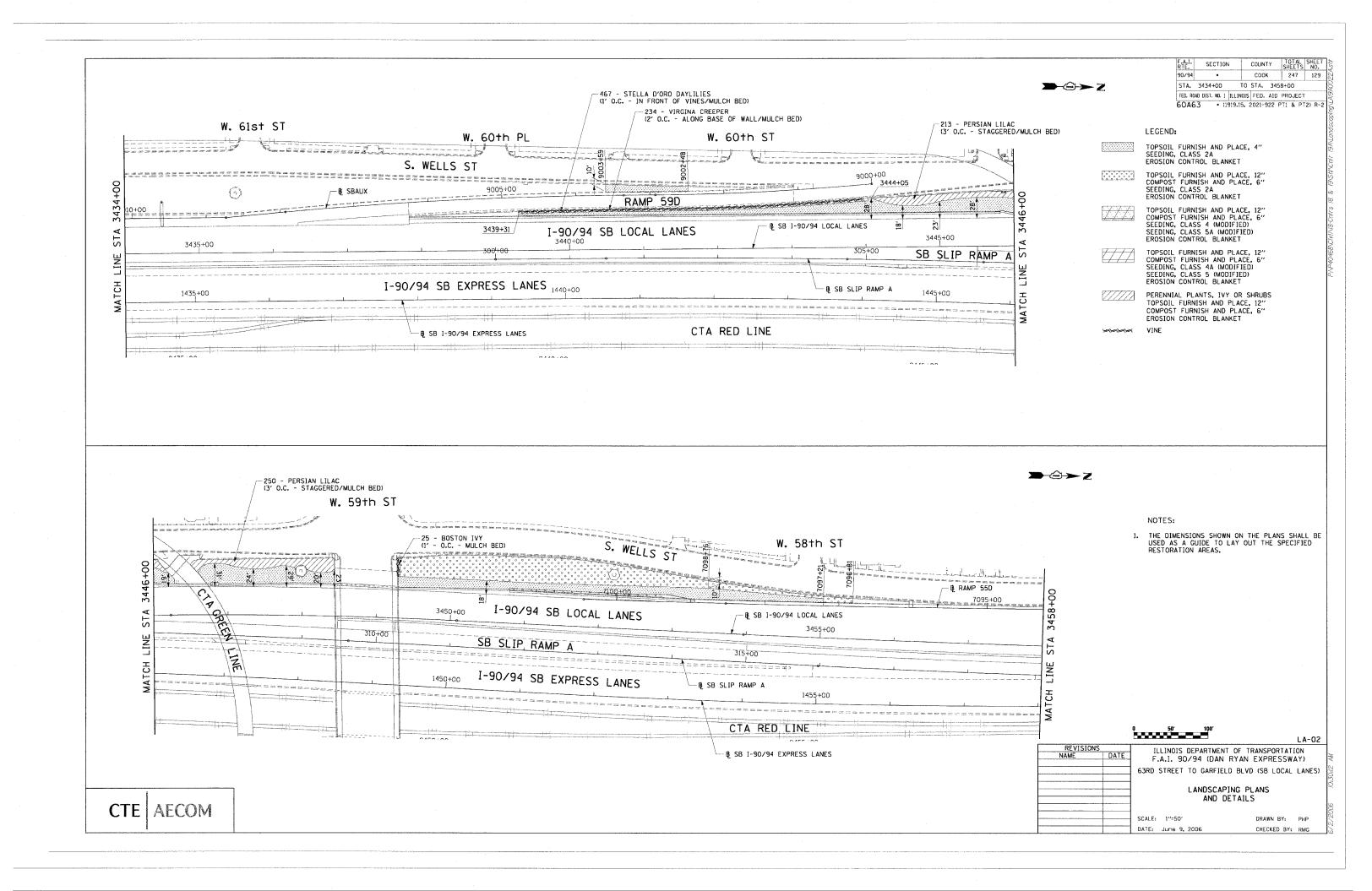
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT 60A63 * (1919.15, 2021-922 PT1 & PT2) R-2

SECTION

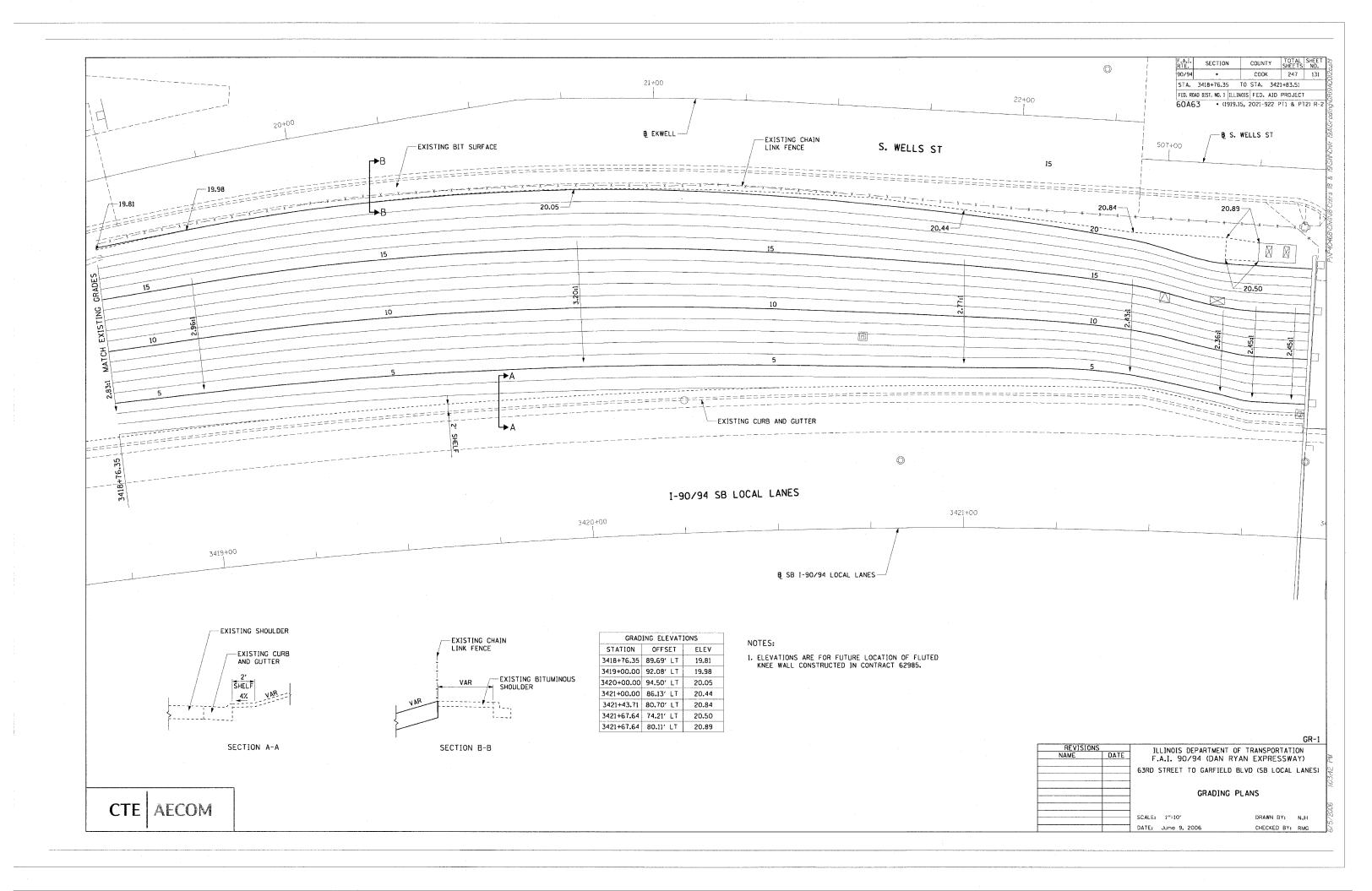
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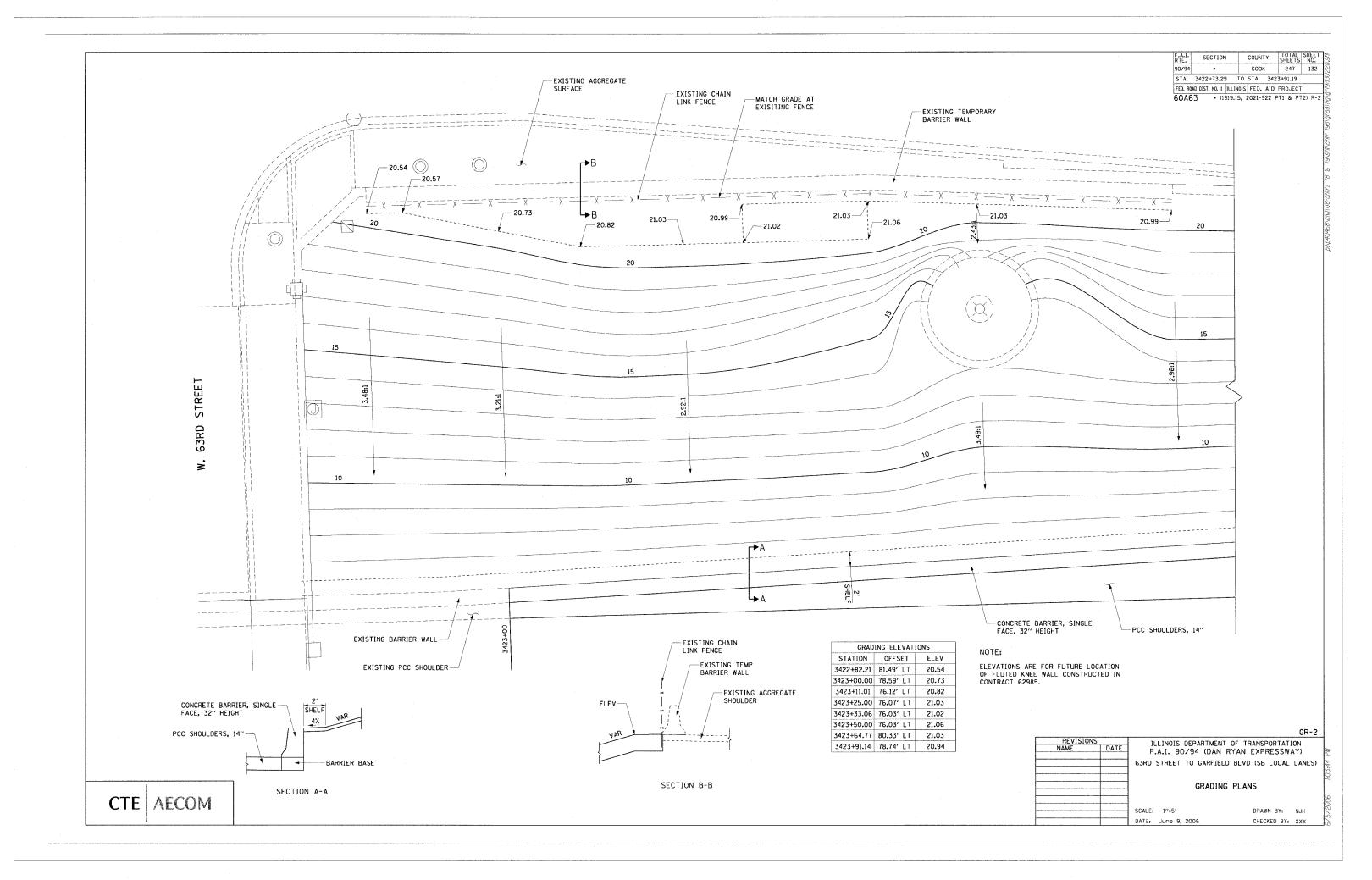
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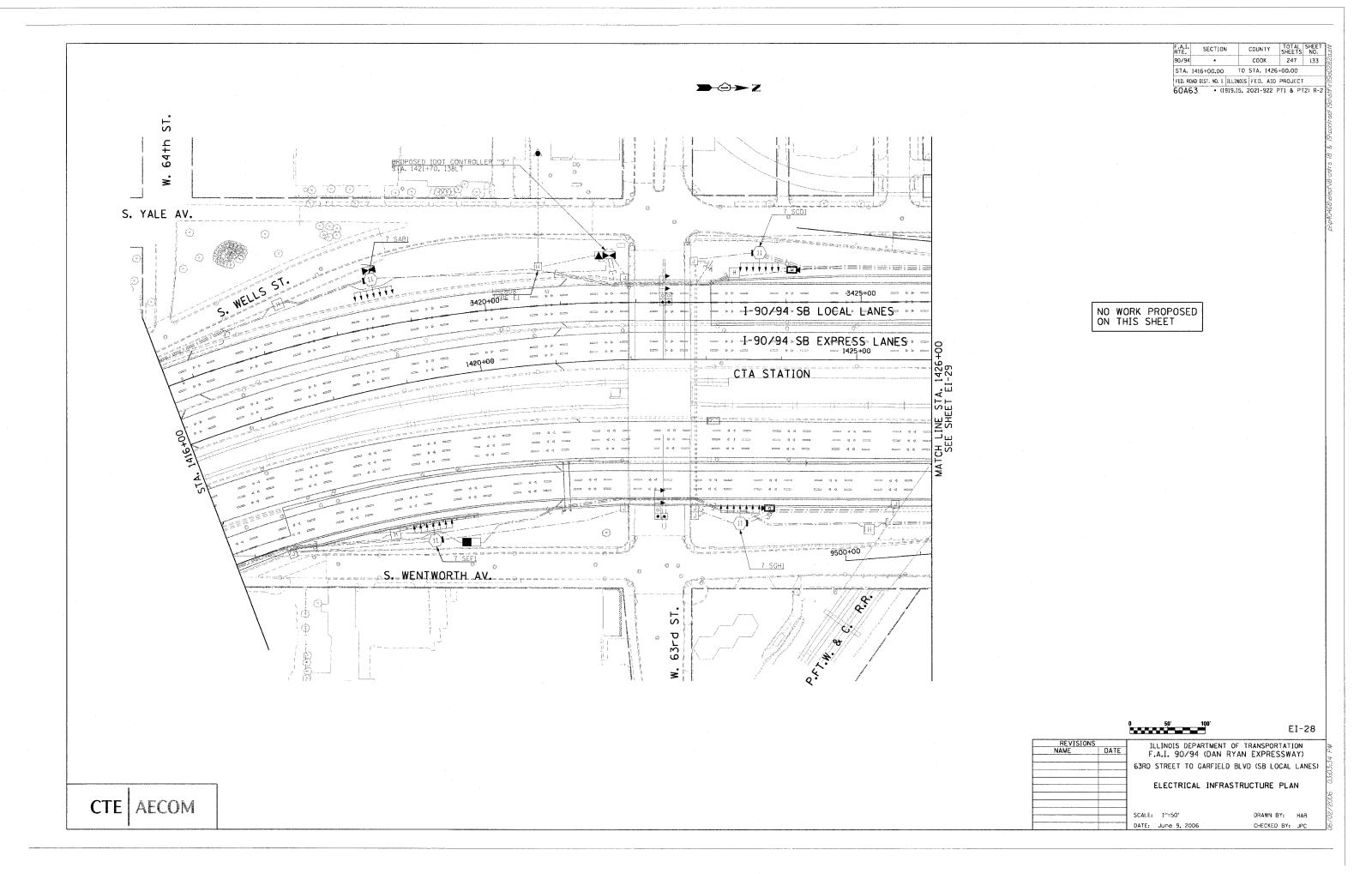




SECTION. COUNTY TOTAL SHE COOK 247 130 **>**□ > Z STA. 3458+00 TO STA. 3482+00 FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT 60A63 * (1919.15, 2021-922 PT1 & PT2) R-LEGEND: TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A EROSION CONTROL BLANKET W. 57th ST TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 2A EROSION CONTROL BLANKET - B RAMP 55D S. WELLS ST TOPSOIL FURNISH AND PLACE, 12"
COMPOST FURNISH AND PLACE, 6"
SEEDING, CLASS 4 (MODIFIED)
SEEDING, CLASS 54 (MODIFIED)
EROSION CONTROL BLANKET RAMP 55D 347¢ S -₿ SB I-90/94 LOCAL LANES I-90/94 SB LOCAL LANES 3460+00 TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" SEEDING, CLASS 4A (MODIFIED) SEEDING, CLASS 5 (MODIFIED) EROSION CONTROL BLANKET LINE 320+00 SB SLIP RAMP A 1470- H WATCH I-90/94 SB EXPRESS LANES PERENNIAL PLANTS, IVY OR SHRUBS SB SLIP RAMP A 1465+00 1460+00 TOPSOIL FURNISH AND PLACE, 12" COMPOST FURNISH AND PLACE, 6" EROSION CONTROL BLANKET CTA RED LINE CTA RED LINE UB SB I-90/94 EXPRESS LANES W. GARFIELD W. GARFIELD NOTES: BOULEVARD BOULEVARD THE DIMENSIONS SHOWN ON THE PLANS SHALL BE USED AS A GUIDE TO LAY OUT THE SPECIFIED RESTORATION AREAS. WESTBOUND EASTBOUND 3470+00 B RAMP 55D-7080+00 -20 - BOSTON IVY (1' O.C. - MULCH BED) S. WELLS ST RAMP 55D STA B SB I-90/94 LOCAL LANES STA I-90/94 SB LOCAL LANES 3480+00 3475+00 I-90/94 SB EXPRESS LANES PROJECT LIMITS MATCH 1480+00 1475+00 CTA STATION CTA RED LINE B SB I-90/94 EXPRESS LANES LA-03 ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) REVISIONS NAME 63RD STREET TO GARFIELD BLVD (SB LOCAL LANES) LANDSCAPING PLANS AND DETAILS AECOM CTE SCALE: 1"=50" DRAWN BY: PHP DATE: June 9, 2006 CHECKED BY: RMG







→②→ Z ٦. ST. 61s† 61st ≥. 7 SCD2 S. WELLS ST. 2" RGC IN - NOTE 4 -2"/RGC IN TRENCH 3" EXC ENCASED-→ → I-90/94 SB LOCAL LANES - PP 3430+00- PP b b 3435+00b b HH2907, TYPE S1 STA: 3427+00, 43LT HH 2908 - - I-90/94_SB EXPRESS LANES ⇒ > 1430+00 ⇒ > > □ CH LINE STA. 1436 SEE SHEET EI-30 ℃ ⅌ MATCH emma **∢** ⟨ ⟨ ⟨ ⟨ ⟨ ⟨ | | S. WENTWORTH AV. 7 SGH4 CTE | AECOM

| F.A.I. | SECTION | COUNTY | TOTAL | SHEET |

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-OUTS INSTALLED IN IDOT CONTRACT NO. 62302 AND CONNECT THE PROPOSED CONDUITS.

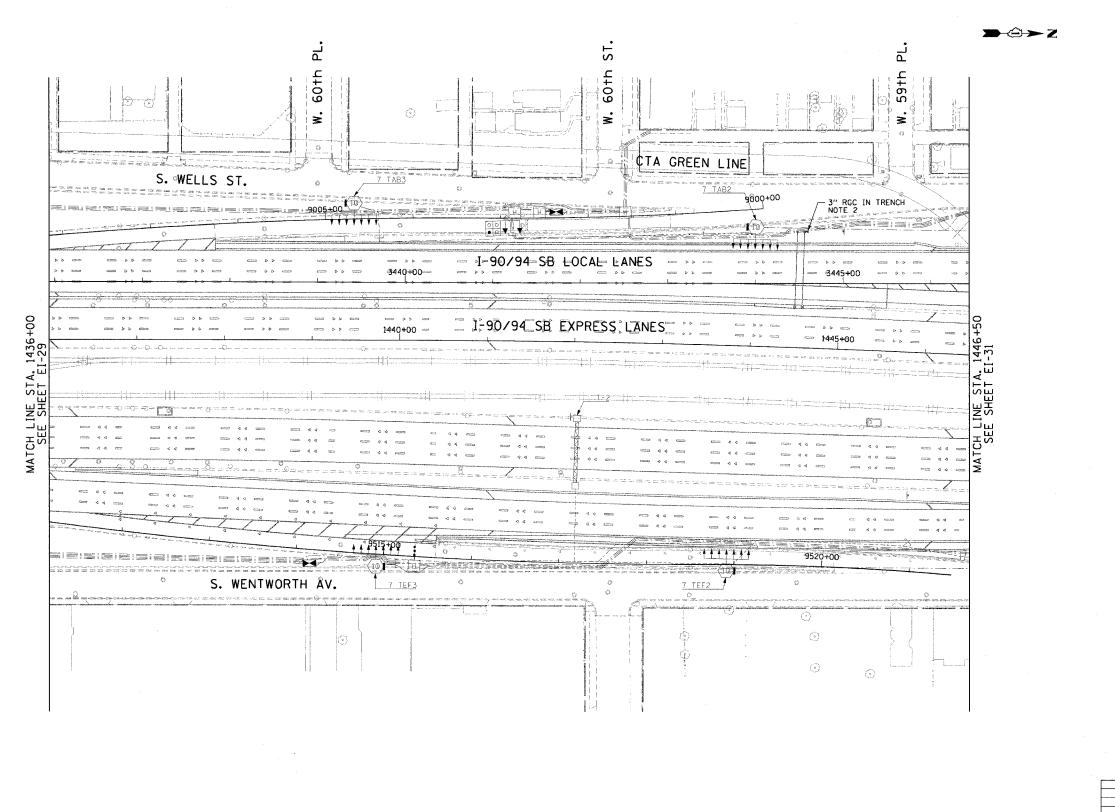
4. THE CONTRACTOR SHALL LOCATE THE EXISTING CONDUIT STUB-OUT INSTALLED IN IDOT CONTRACT NO. 62693 AND CONNECT THE PROPOSED CONDUIT.

5. UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED NEW ITEMS AND WORK.

0 50' 100

EI-29

REVISIONS NAME DATE	ILLINOIS DEPARTMENT OF F.A.I. 90/94 (DAN RYA	
	63RD STREET TO GARFIELD BL	VD (SB LOCAL LANES)
	ELECTRICAL INFRAST	RUCTURE PLAN
	SCALE: 1"=50"	DRAWN BY: HAR
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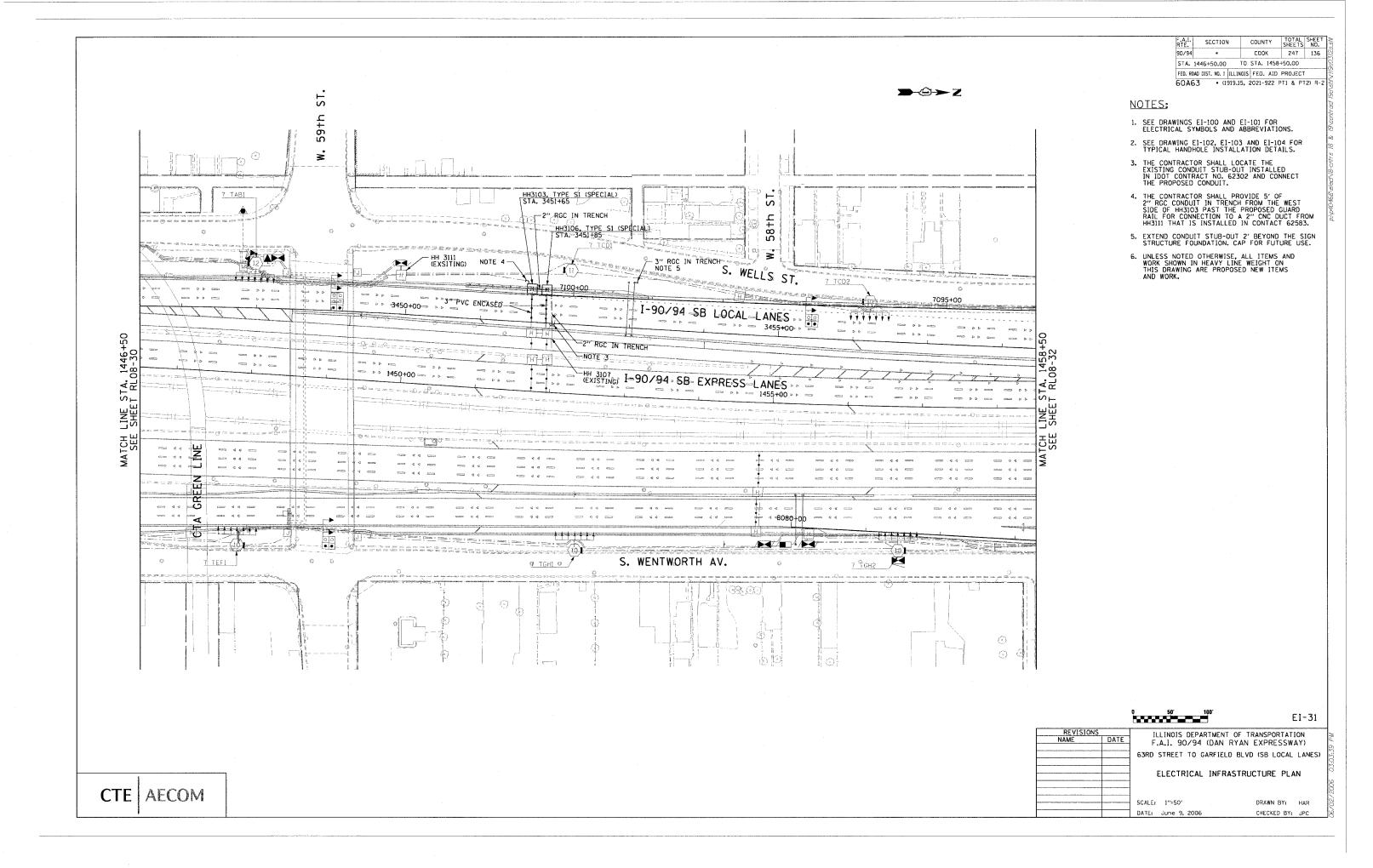
NOTES:

- 1. SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- 2. EXTEND CONDUIT STUB-OUT 2' BEYOND THE SIGN STRUCTURE FOUNDATION. CAP FOR FUTURE USE.
- 3. UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED NEW ITEMS AND WORK.

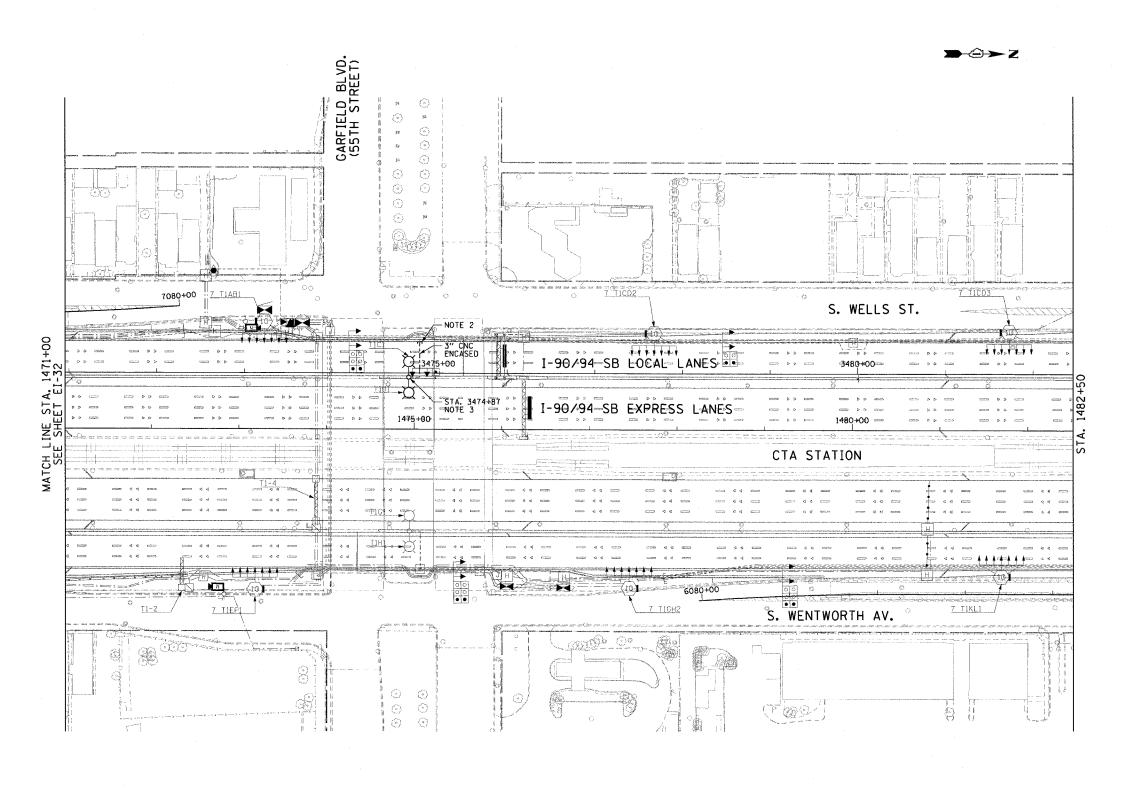
0 50′ 100

EI-30

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



SECTION COUNTY COOK 247 137 90/94 STA, 1458+50.00 TO STA, 1471+00.00 FED. ROAD DIST. NO. 1 ILLINGIS FED. AID PROJECT 60A63 • (1919.15, 2021-922 PT1 & PT2) R **→**②→ Z NOTES: 1. SEE DRAWINGS E1-100 AND E1-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS. ST. 2. SEE DRAWING 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. 62302 AND CONNECT THE PROPOSED CONDUIT. 57+h 4. THE CONTRACTOR SHALL LOCATE THE EXISTING 4" CNC CONDUIT STUB-OUT INSTALLED IN IDOT CONTRACT NO. 62586 AND CONNECT THE PROPOSED CONDUIT. PROVIDE 4" TO 3" REDUCER FITTING. ≥. 5. UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED NEW ITEMS AND WORK. HH3201, TYPE SI (SPECIAL) 6. THE CONTRACTOR SHALL LOCATE THE 2" RGC CONDUIT STUB-OUT INSTALLED IN CONTRACT NO. 62586 AND CONTINUE THE 2" RGC TO HH32O9. HH3204, TYPE S1 STA. 7086+50 (NOTE 7) 7 S. WELLS ST. HH3209, TYPE S1 STA. 7083+26 7. THE CONTRACTOR SHALL INSTALL THE HH IN THE APPROXIMATE LOCATION SHOWN AND EXTEND EXISTING CONCRETE ENCASED DUCTS INSTALLED IN CONTRACT 62586 TO THE NEW HH. SEE DRAWINGS EI-106 AND EI-107 FOR INSTALLATION DETAILS. NOTE 6-7 7085+00 I-90/94 SB LOCAL LANES ==3460+00 3" PVC → ► ENCASED > ► NOTE 4 | encom p 5 ≈ > ≥3465+00 A. 1471 EI-33 - → I-90/94 SB-EXPRESS +ANES → --NOTE 3 ---1460+00 MATCH SEI 8085-100111111 8090+00 7 TGH3 S. WENTWORTH AV. 0 50 19 EI-32 ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) DATE 63RD STREET TO GARFIELD BLVD (SB LOCAL LANES) ELECTRICAL INFRASTRUCTURE PLAN **AECOM** CTE SCALE: 1"=50" DRAWN BY: HAR DATE: June 9, 2006 CHECKED BY: JPC



| F.A.1. | SECTION | COUNTY | TOTAL | SHEET |

NOTES:

1. SEE DRAWINGS E1-100 AND E1-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.

2. THE CONTRACTOR SHALL LOCATE THE EXISTING CONDUIT STUB-OUT INSTALLED IN IDOT CONTRACT NO. 62586 AND CONNECT THE PROPOSED CONDUIT.

3. THE CONTRACTOR SHALL INSTALL THE LIGHT POLE FOUNDATION ONLY. LIGHT POLE AND LUMINAIRES TO BE INSTALLED UNDER CONTRACT 62583. SEE SHEET EI-108 FOR FOUNDATION DETAIL.

 UNLESS NOTED OTHERWISE, ALL ITEMS AND WORK SHOWN IN HEAVY LINE WEIGHT ON THIS DRAWING ARE PROPOSED NEW ITEMS AND WORK.

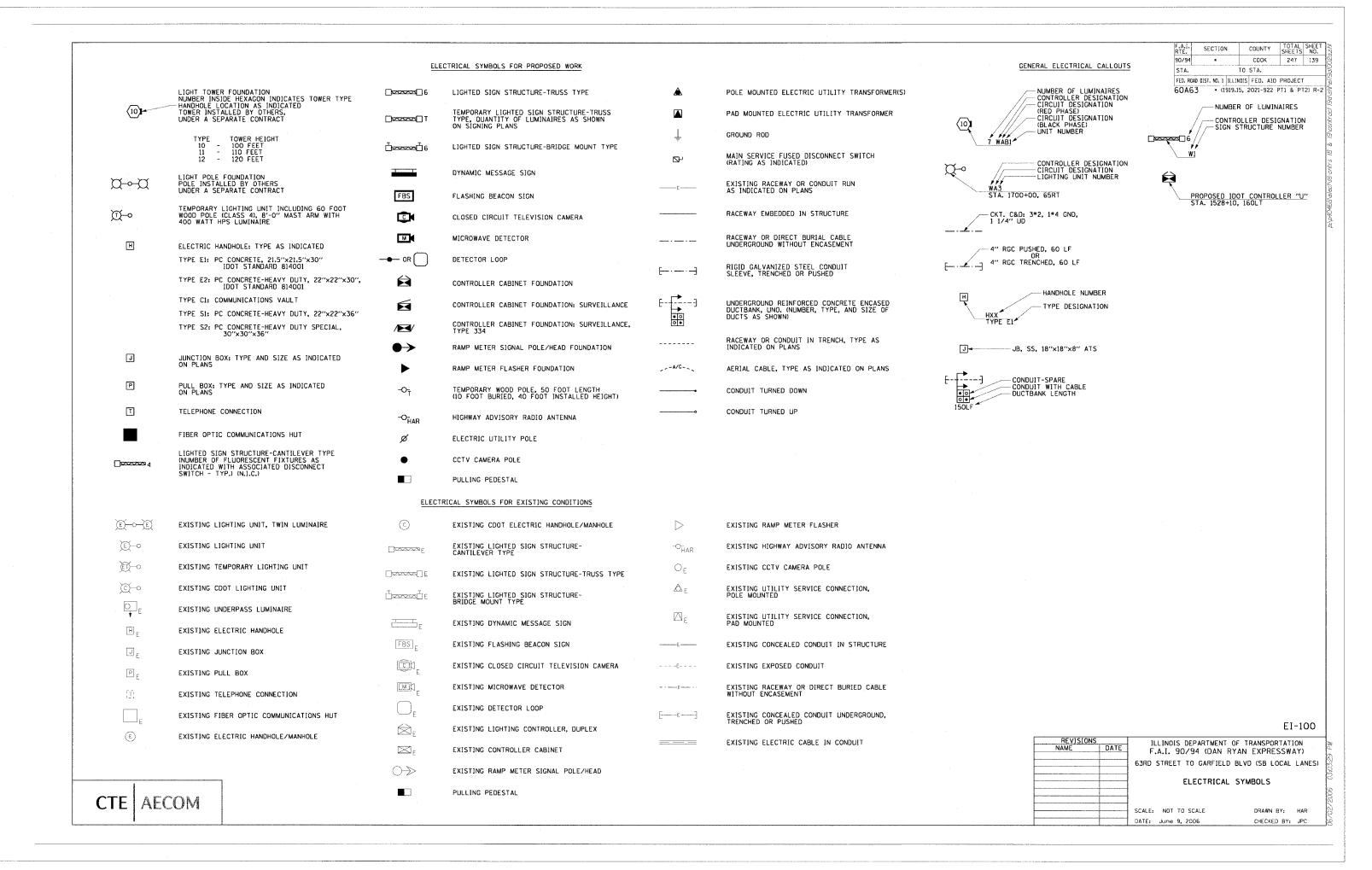
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DATE: June 9, 2006

EI-33

CHECKED BY: JPC

REVISIONS	ILLINOIS DEPARTMENT OF TRANSPORTATION	:
NAME DATE	F.A.I. 90/94 (DAN RYAN EXPRESSWAY)	٢
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	63RD STREET TO GARFIELD BLVD (SB LOCAL LANES)	1
	1	C
	1	ľ
	ELECTRICAL INFRASTRUCTURE PLAN	ľ
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	4	ĸ
	SCALE: 1"=50' DRAWN BY; HAR	0



	ABBREVIATIONS				
Α	AMPERES	ID	INNERDUCT	WB	WESTBOUND
AC	ALTERNATING CURRENT	IDOT	ILLINOIS DEPARTMENT OF	WM .	WALL MOUNTE
A/C	AERIAL CABLE	751	TRANSPORTATION	WP	WOOD POLE
AFG	ABOVE FINISHED GRADE	IN	INCHES	XFMR	TRANSFORMER
ANT	ANTENNA	J, JB	JUNCTION BOX		
AOBE	AS ORDERED BY THE ENGINEER	KVA	KILOVOLT-AMPERE		
ASPH	ASPHALT	KW	KILOWATT		
ATS	ATTACHED TO STRUCTURE	LF	LINEAR FEET		
AVE	AVENUE	LP	LIGHT POLE		
BHD	BULKHEAD	L SUM	LUMP SUM		
BIT	BITUMINOUS	LT	LEFT		
BLK	BLOCK	М	METER		
BR	BRIDGE	MA	MAST ARM		
C .	CONDUIT, CONDUCTOR	MD	MICROWAVE DETECTOR		
CAB	CABINET	MM	MULTI-MODE		
CBW	CONCRETE BLOCK WALL	MW	MESSENGER WIRE		
CC	COMMUNICATIONS CENTER	NB	NORTHBOUND		
CCTV	CLOSED CIRCUIT TELEVISION	NIC	NOT IN CONTRACT		
CDOT	CDOT-CHICAGO DEPARTMENT OF	NM	NONMETALLIC		
	TRANSPORTATION	NO	NUMBER		
COMED	COMED	NTS	NOT TO SCALE		
CKT	CIRCUIT	ОН	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		
DWG	DRAWING(S)	NOC	CONDUIT		
E	EXISTING UNIT TO REMAIN	RM	RAMP METER		
EA	EACH	ROW	RIGHT OF WAY		
EB	EASTBOUND	RR	EXISTING UNIT TO BE REMOVED		
ECA	ELECTRIC CABLE ASSEMBLY	0.7	AND REINSTALLED		
EL	ELEVATION	RT	RIGHT		
EM	EXISTING UNIT TO BE MODIFIED (e.g. NEW LUMINAIRE, BALLAST,	RW	RETAINING WALL		
	OR MAST ARM)	SB	SOUTHBOUND		
ER	EXISTING RELOCATED UNIT	SH	SHEET		
ET	EXISTING TEMPORARY UNIT TO REMAIN OR MODIFIED	SM SS	SINGLE MODE STAINLESS STEEL		
ETP	EMERGENCY TRAFFIC PATROL	ST	STREET		
ETR	EXISTING TEMPORARY RELOCATED	STA	STATION		
EVCAU	UNIT	STD	STANDARD		
EXCAV	EXCAVATION	STL	STEEL		
F, FT	FOOT, FEET	STRUCT	STRUCTURE		
FDN	FOUNDATION	SURF	SURFACE		
F0	FIBER OPTIC	SURV	SURVEILLANCE		
GM	GROUND MOUNTED	CW	CIDEMAIN		

SW

TAN

TC

TEL

TSC

TYP

UD

UND

SIDEWALK

TANGENT

TEMPORARY

TRAY CABLE

TRAFFIC SIGNAL

TRAFFIC SYSTEMS CENTER

UNLESS NOTED OTHERWISE

TELEPHONE

TYPICAL

VOLT

WATT

UNIT DUCT

UNDERDRAIN

GR

GSC

HAR

HD

HPS

HYD

CTE AECOM

GND, GRD

GALVANIZED STEEL CONDUIT

HIGHWAY ADVISORY RADIO

HIGH PRESSURE SODIUM

GROUND

GUARD RAIL

HEAVY DUTY

HANDHOLE

HYDRANT

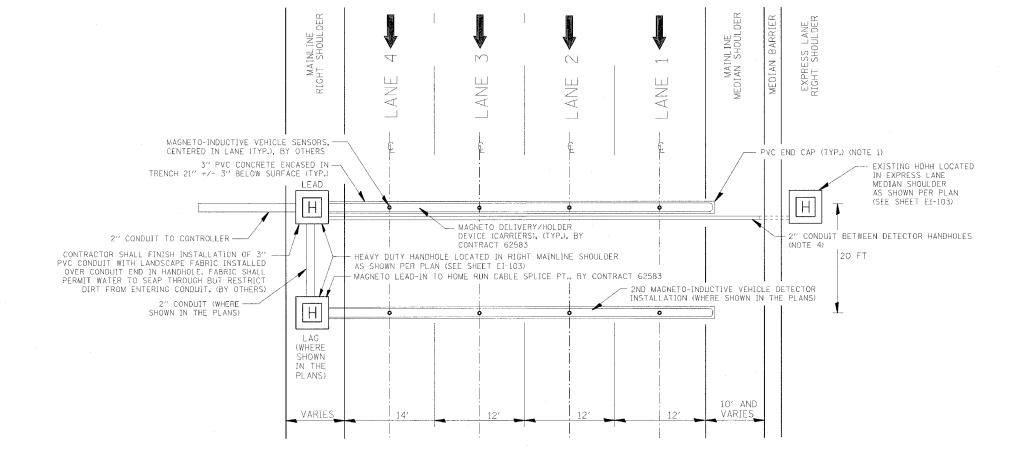
INTERSTATE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	247	140
STA,		TO STA.		
FED. ROAD	DIST. NO. 1	LLINOIS FED. AID	PROJECT	•
60A63	• (19	19.15, 2021-922	PT1 & PT	(2) R-2

EI-101

				£1-	101
	REVISIONS NAME	DATE	ILLINOIS DEPARTMENT F.A.I. 90/94 (DAN 1		
	·		63RD STREET TO GARFIELD	D BLVD (SB LOCAL L	ANES)
			ELECTRICAL A	BBREVIATIONS	03
					72006
-			SCALE: NOT TO SCALE	DRAWN BY:	HAR 🖇
			DATE: June 9, 2006	CHECKED BY:	JPC 🙎

F.A.I. RTE.	SECTION		COUNTY	TOTAL	SHEET NO.
90/94	•		COOK	247	141
STA.		TO	STA.		
FED. ROAL	DIST. NO. 1	ILLINOIS	FED. AID	PROJECT	
60A63	3 • (19	19.15,	2021-922	PT1 & P1	2) R-2



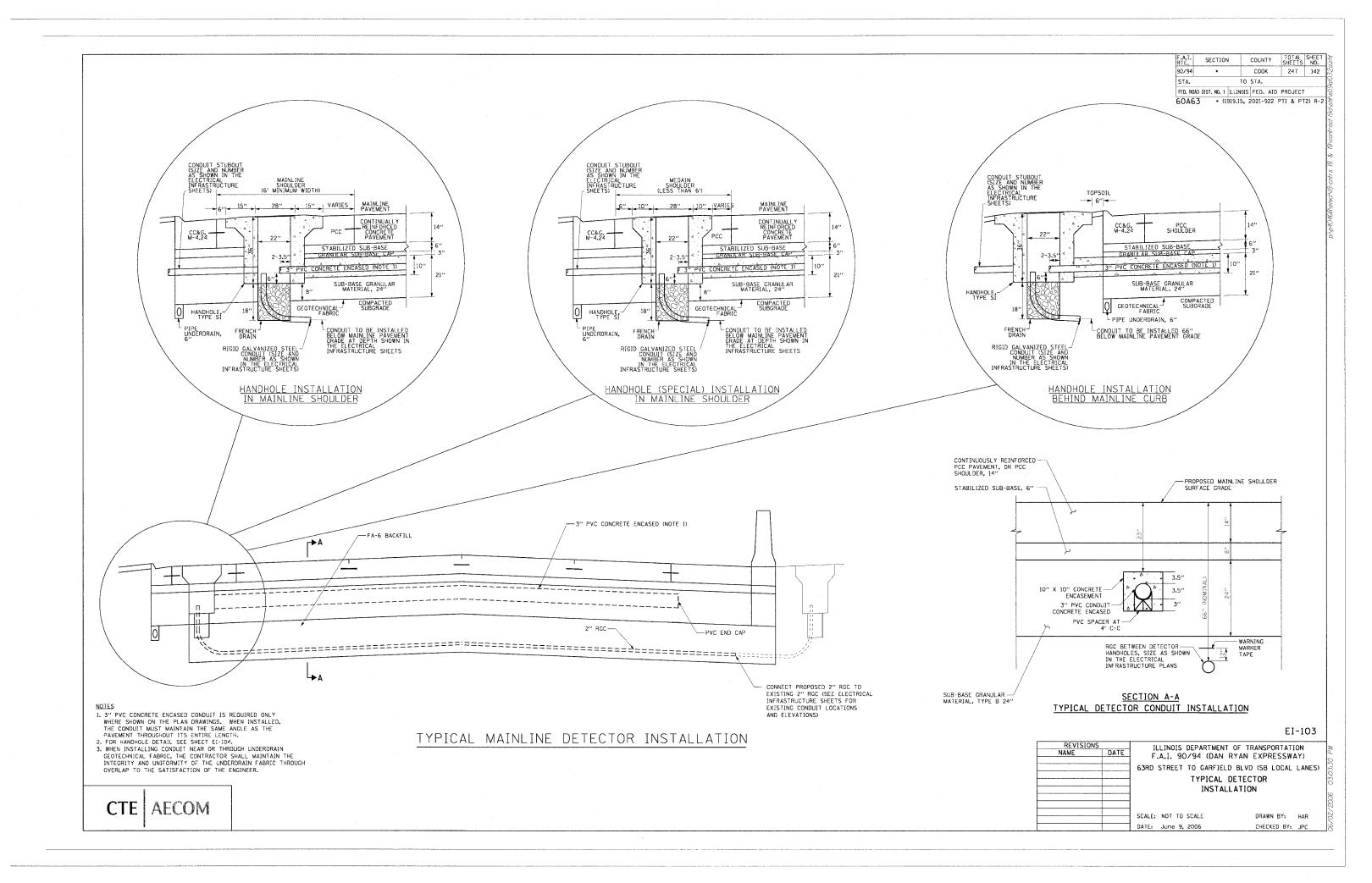
DAN RYAN TYPICAL MULTI-LANE CROSS SECTION WITH NON-INVASIVE MAGNETO-INDUCTIVE VEHICLE SENSOR (PROBE) INSTALLED IN ALL LANES

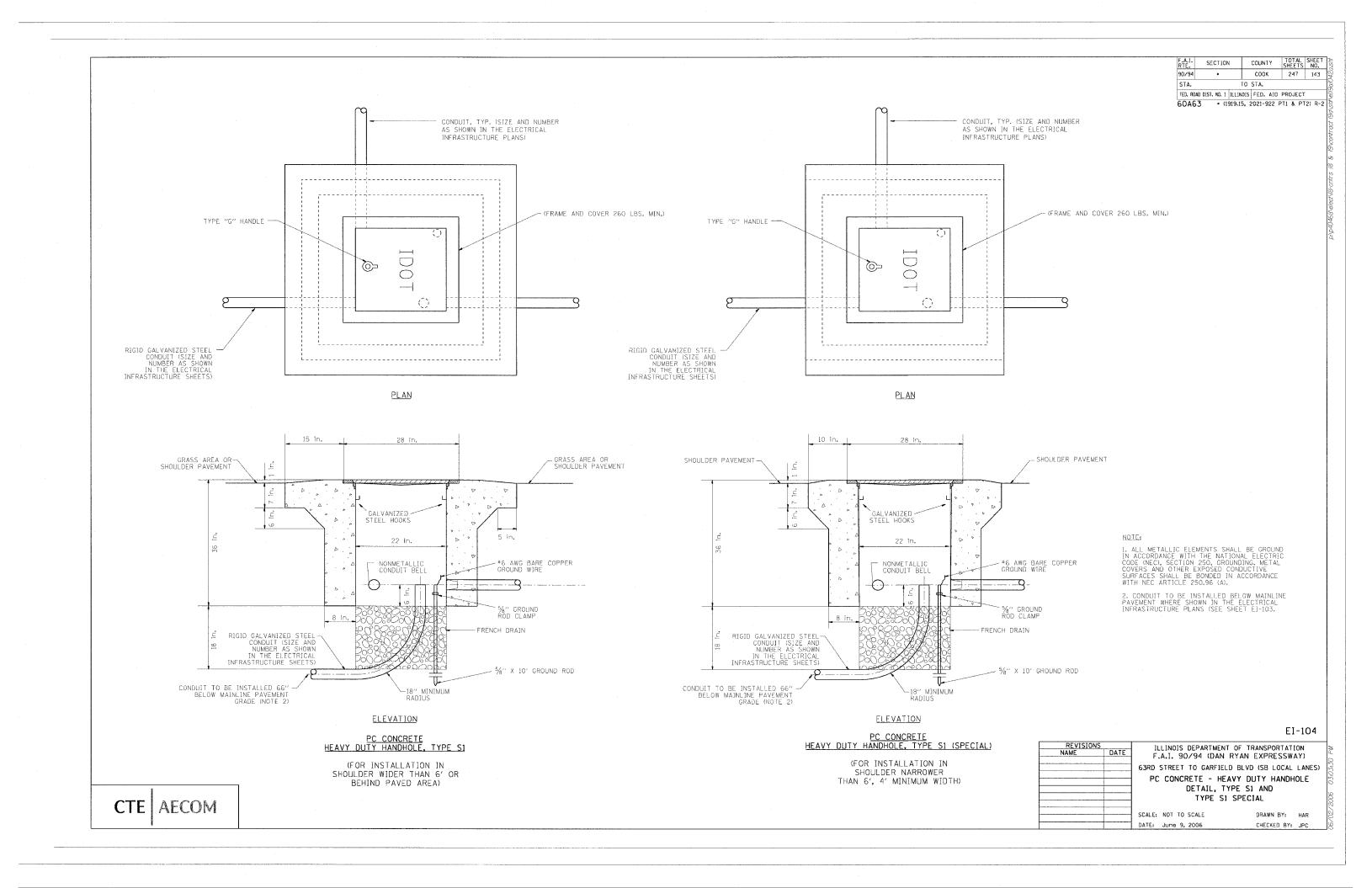
EI-102

REVISIONS	ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME DATE	F.A.I. 90/94 (DAN RYAN EXPRESSWAY)	
	63RD STREET TO GARFIELD BLVD (SB LOCAL LANE	S)
	TYPICAL LOCAL LANE	
	DETECTOR STATION LAYOUT	
	SCALE: NOT TO SCALE DRAWN BY: HAR	
	DATE: June 9, 2006 CHECKED BY: JPC	

NOTES:

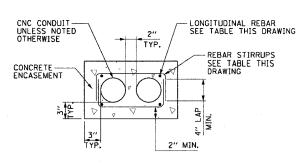
- 1. CONDUIT END CAP TO BE PRESS FITTED (NO ADHESIVE).
- 2. CONDUIT TO EXTEND 2-3 IN. INTO HANDHOLE.
- 3. FOR 3" PVC CONCRETE ENCASED IN TRENCH DETAIL, SEE SHEET EI-103, FOR HANDHOLE DETAIL, SEE SHEET EI-104.
- 4. CONNECT PROPOSED 2" RGC TO EXISTING 2" RGC (SEE ELECTRICAL INFRASTRUCTURE SHEETS FOR EXISTING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



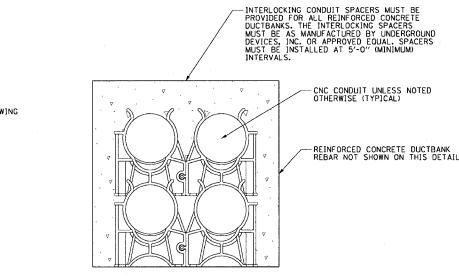


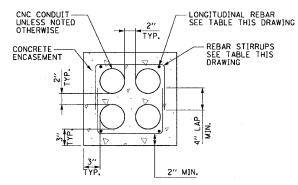


- 1. SEE DRAWINGS EI-100 AND EI-101 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- 2. PROVIDE MINIMUM CLEARANCE SHOWN FROM TOP OF DUCTBANK TO FINISHED GRADE FOR ALL DUCTBANKS, REGARDLESS OF SIZE, CONTRACTOR MUST INSTALL DUCTBANKS SUCH THAT THEY WILL CLEAR ALL UNDERGROUND OBSTACLES.
- 3. TRENCH MUST HAVE 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.
- 4. NOT ALL DUCTBANK CONFIGURATIONS ARE SHOWN. ALL DUCTBANKS INSTALLED UNDER THIS CONTRACT WILL CONFORM TO THE TYPICAL SPACINGS SHOWN ON THIS DRAWING.

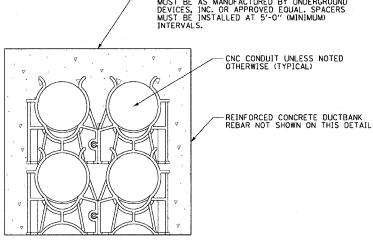


2x1 DUCTBANK DETAIL-IN REINFORCED CONCRETE NOT TO SCALE

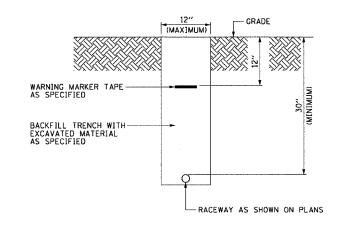




2x2 DUCTBANK DETAIL-IN REINFORCED CONCRETE NOT TO SCALE



INTERLOCKING CONDUIT SPACER DETAIL NOT TO SCALE



CNC CONDUIT — UNLESS NOTED OTHERWISE

CONCRETE — ENCASEMENT

CNC CONDUIT ---UNLESS NOTED OTHERWISE

CONCRETE — ENCASEMENT

LONGITUDINAL REBAR SEE TABLE THIS DRAWING

REBAR STIRRIPS

SEE TABLE THIS DRAWING

LONGITUDINAL REBAR SEE TABLE THIS DRAWING

-REBAR STIRRUPS SEE TABLE THIS DRAWING

2" MIN.

2" MIN.

1x1 DUCTBANK DETAIL-

IN REINFORCED CONCRETE

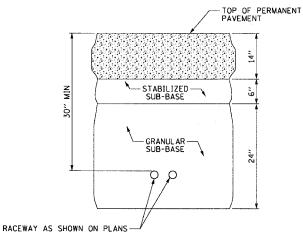
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3x1 DUCTBANK DETAIL-

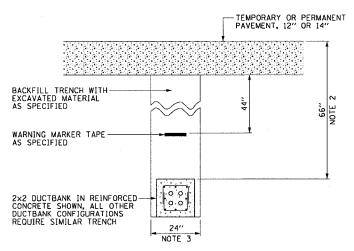
IN REINFORCED CONCRETE

NOT TO SCALE

TYPICAL ELECTRICAL CONDUIT IN UNPAVED AREA



TYPICAL SURVEILLANCE CONDUIT UNDER PERMANENT PAVEMENT



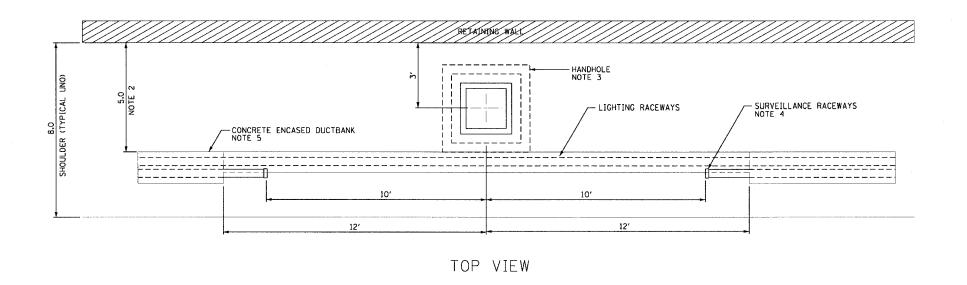
TYPICAL ELECTRICAL DUCTBANK UNDER PAVEMENT

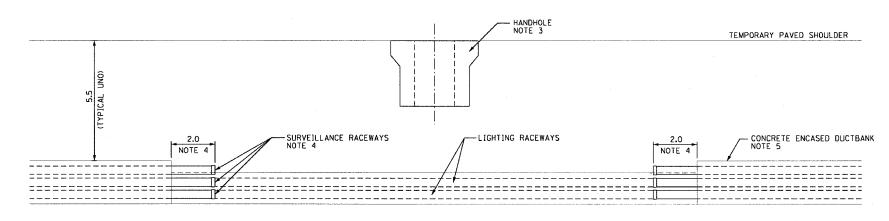
DUCTBANK REINFORCEMENT TABLE				
LONGITUDINAL REBAR	REBAR STIRRUPS			
BARS				
#4	*3 AT 12" SPACING			
#5	#3 AT 12" SPACING			
*6	#3 AT 12" SPACING			
	LONGITUDINAL REBAR BARS #4 #5			

E1-105

					C.1	-105	
REVISIONS NAME [DATE			MENT OF TR			МЧ
	27,1.6	F.A.1.	90/94 (0	AN RYAN E	XPRESSWA	(Y)	0
	6	3RD STREE	ET TO GAR	FIELD BLVD	(SB LOCAL	LANES)	03:03:30
							5
		ELE	CTRICAL	DUCTBANK	DETAILS		0
							90
							12
	Si	CALE: NOT	TO SCALE		DRAWN BY:	HAR	36/02/200 6
	D.	ATE: June	9, 2006		CHECKED BY:	JPC	199

AECOM





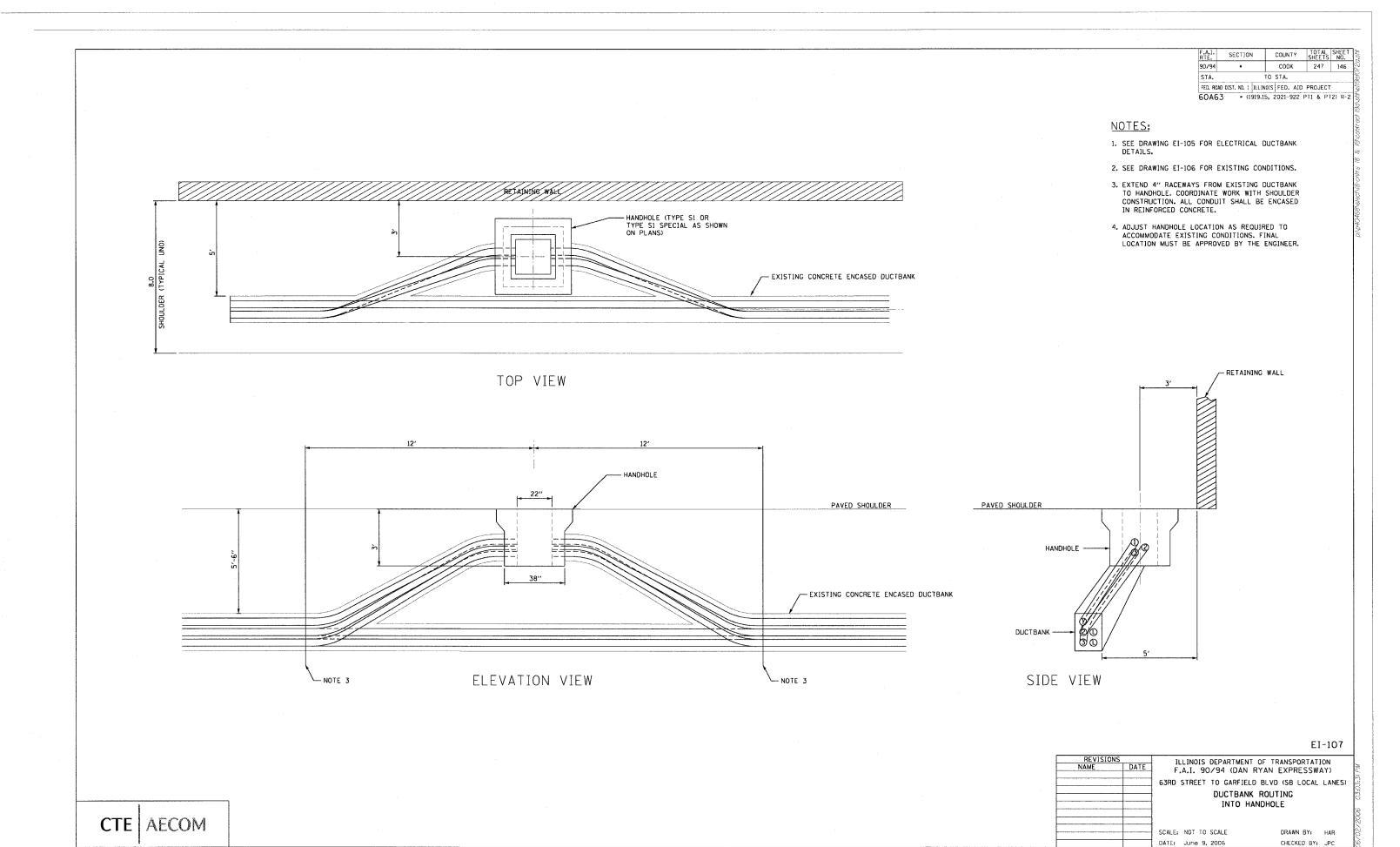
ELEVATION VIEW

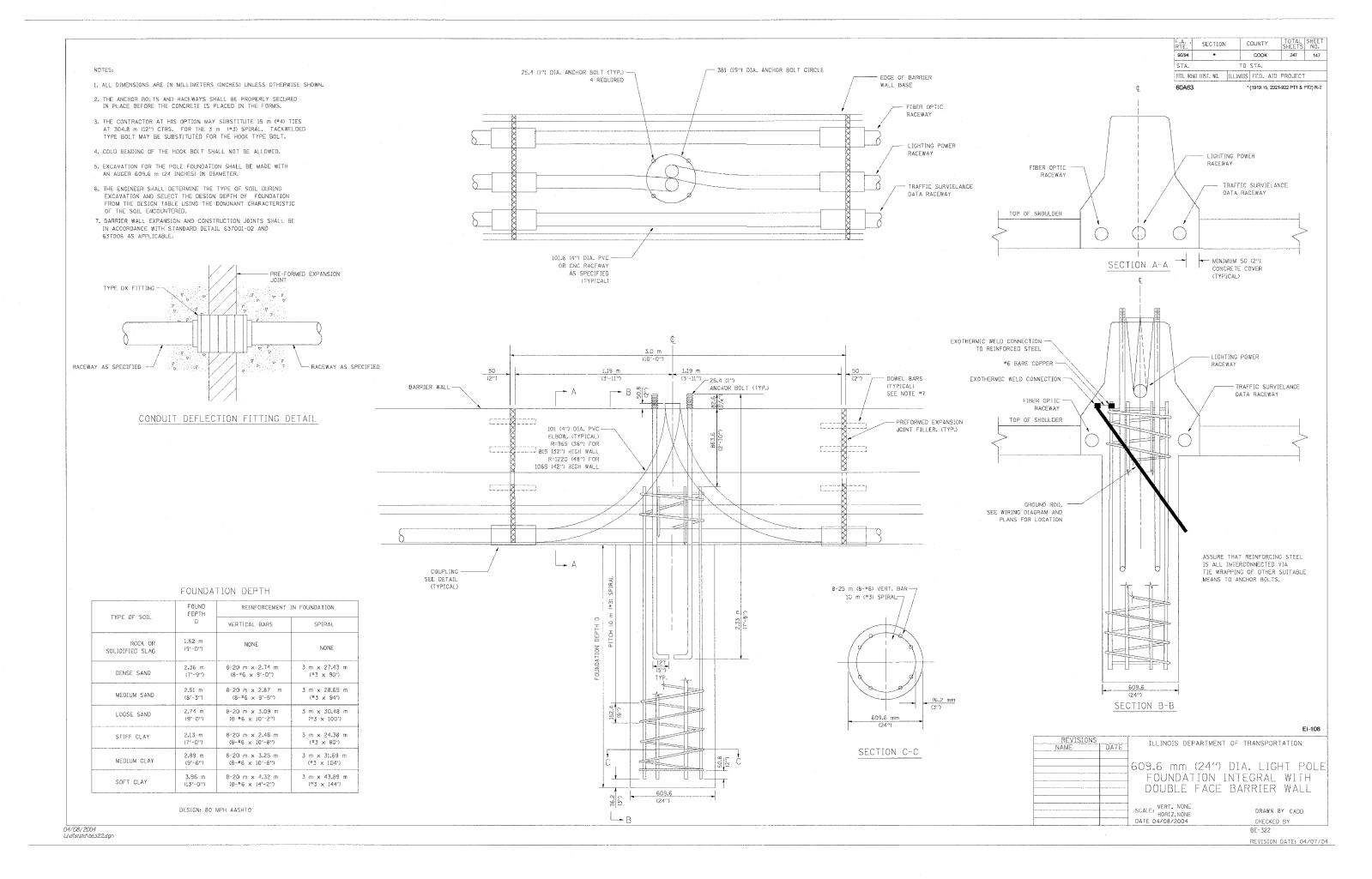
NOTES:

- SEE DRAWING EI-105 FOR ELECTRICAL DUCTBANK DETAILS.
- 2. THE DISTANCE IS MEASURED FROM THE FRONT FACE OF RETAINING WALL TO THE FACE OF DUCTBANK.
- 3. THE HANDHOLE WILL BE INSTALLED CONTRACT 60A63. THE PLANS SHOW THE ANTICIPATED LOCATIONS OF PROPOSED HANDHOLES. THIS SHEET IS INCLUDED TO PROVIDE THE CONTRACTOR WITH ANTICIPATED EXISTING CONDITIONS. DUCTBANK SHOWN WAS INSTALLED IN CONTRACT 62586.
- 4. THE SURVEILLANCE RACEWAYS SHOULD BE STUBBED OUT FROM THE CONCRETE ENCASEMENT AND CAPPED AS SHOWN. THE DUCTBANK REINFORCING REBAR SHOULD ALSO BE EXTENDED OUT FROM THE CONCRETE ENCASEMENT A MINIMUM OF 2 FEET AS SHOWN.
- 5. DUCTBANK WAS LOCATED 5 FEET FROM THE FACE OF WALL TO AVOID CONFLICTS WITH PROPOSED AND FUTURE DRAINAGE STRUCTURES.

EI-106

REVISIO	NS	ILLINOIS DEPARTMENT	OF TRANSPORTATION
NAME	DATE	F.A.I. 90/94 (DAN F	
		63RD STREET TO GARFIELD	BLVD (SB LOCAL LANES)
		EXISTING [INSTALLATIO	
		AT PROPOSED) HANDHOLE
		SCALE: NOT TO SCALE	DRAWN BY: HAR
		DATE: June 9, 2006	CHECKED BY: JPC





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.
- 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.
- 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 FORINEER. 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	SHEET :
90/94	. •	COOK	247	148
STA.		TO STA.		
FED. ROA	D DIST. NO. 1 ILLIN	IOIS FED. AID	PROJECT	

60A63 • (1919.15, 2021-922 PT1 & PT2) R-2

E-1

REVISIONS	ILLINOIS DEPARTMENT	OF TRANSPORTATION	35
NAME DATE	F.A.I. 90/94 (DAN F		Q.
	1 .A.1. 30/ 34 (DAN)		S
	63RD STREET TO GARFIELD	BLVD (SB LOCAL LANES)	03:03:25
		i	8
	COOT ELECTRICAL	OFFICE NATES	8
	CDOT ELECTRICAL	GENERAL NOTES	
			9
			2006
			ćΛ
	SCALE: NOT TO SCALE	DRAWN BY: HAR	Š
	DATE: June 9, 2006	CHECKED BY: JPC	9

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 CITY ELECTRIC HANDHOLE/MANHOLE

 \bigcirc_{ϵ}

- EXISTING POLE, CITY STEEL, EMBEDDED, 4"x9"x20' 7 GA, TAPERED TUBULAR
- EXISTING POLE, CITY STEEL, ANCHOR BASE, 20'-O", 7 GA, STEEL AND FND WITH 10" BC AND $1\frac{1}{4}$ " ANCHOR RODS
- EXISTING STREET LIGHTING CONTROLLER, PEDESTAL OR BASE MOUNTED

GENERAL ELECTRICAL CABLE AND CONDUIT SYMBOLS

——Е——	EXISTING RACEWAY OR CONDUIT RUN AS INDICATED ON PLANS
_ <u>165 LF</u> .	RACEWAY OR CONDUIT IN TRENCH, LENGTH AND TYPE AS INDICATED ON PLANS
_165_LF_	EXPOSED RACEWAY OR CONDUIT, LENGTH AND TYPE AS INDICATED ON PLANS
165 LF	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.
165 LF	AERIAL CABLE, LENGTH AND TYPE AS INDICATED ON PLANS
31C	CABLE, STREET LIGHTING, 2-1/C*6, 1-1/C*8 GND EPRN, 600 V, TRIPLEXED, IN RACEWAY OR CONDUIT AS INDICATED ON PLANS
E	EXISTING CABLE, STREET LIGHTING, IN EXISTING RACEWAY OR CONDUIT RUN
3NE	CABLE, STREET LIGHTING, 3-1/C *2/O EPR, 600V, IN RACEWAY OR CONDUIT AS INDICATED ON THE PLANS

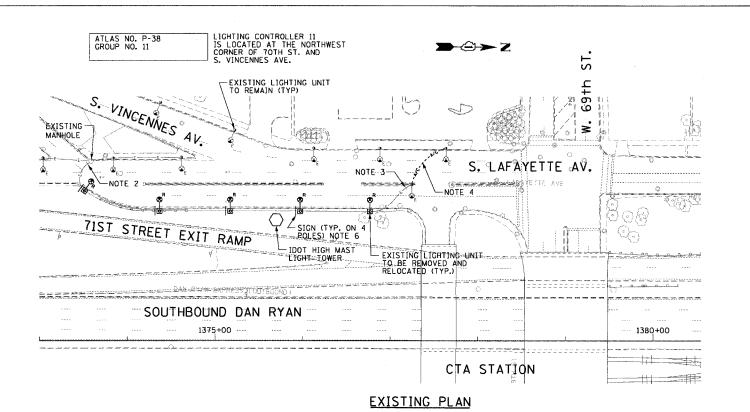
	ADDDEN/ATIONS (COOK		F.A.I. SECTION COUNTY TOTAL SHEETS
	ABBREVIATIONS (CDOT	7	90/94 COOK 247 1 LINEAR FFFT STA. TO STA.
A	AMPERES	LF	
AC	ALTERNATING CURRENT	LT	COAC3 + (1010 15 2021-022 DT1 & DT2)
A/C	AERIAL CABLE	LTG	LIGHTING
ALUM	ALUMINUM	MA	MAST ARM
ATS	ATTACHED TO STRUCTURE	MAX	MAXIMUM
AWG	AMERICAN WIRE GAUGE BASELINE	MIN MTD	MINIMUM
₽		NB	MOUNTED NORTHBOUND
BC	BOLT CIRCLE	_	
BHB BOE	BALLAST HOUSING BASE CITY OF CHICAGO BUREAU OF ELECTRICITY	NEC NEMA	NATIONAL ELECTRIC CODE NATIONAL ELEC MANUFACTURERS ASSOCIATION
C	CONDUIT	NEMA 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 RT	
ECA	ELECTRIC CABLE ASSEMBLY		RIGHT
EL	ELEVATION	SB	SOUTHBOUND
EM	EXISTING UNIT TO BE MODIFIED	SS	STAINLESS STEEL
		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		

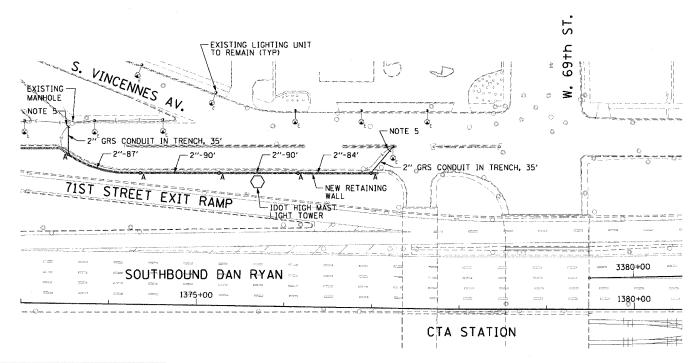
E-2

SCALE: NOT TO SCALE DATE: June 9, 2006

DRAWN BY: HAR CHECKED BY: JPC

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





A-FOUNDATION INTEGRAL WITH RETAINING WALL SEE STRUCTURAL DRAWINGS. 10" B.C., 11/4" ANCHOR RODS

2" CONDUIT BETWEEN FOUNDATIONS SHALL BE SCHEDULE 80 PVC EMBEDDED IN RETAINING WALL PROPOSED CONDUIT AND FOUNDATION PLAN

60A63 • (1919,15, 2021-922 PTI & PT2) R-2

NOTES:

- SEE DRAWINGS E-1 AND E-2 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
- 2. REMOVE EXISTING WIRING BACK TO MANHOLE. CUT AND CAP CONDUIT FOR FUTURE USE.
- 3. REMOVE EXISTING WIRING BACK TO LIGHT POLE. CUT AND CAP CONDUIT FOR FUTURE USE.
- 4. PROVIDE TEMPORARY AERIAL CABLE TO MAINTAIN LIGHTING UNIT DURING CONSTRUCTION, REMOVE AERIAL CABLE WHEN THE PERMANENT WIRING IS COMPLETE. COST OF FURNISHING, INSTALLING AND REMOVING THE TEMPORARY AERIAL CABLE SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE "MAINTAIN EXISTING LIGHTING SYSTEM" PAY ITEM.
- 5. 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.
- 6. REGULATORY SIGNS ATTACHED TO LIGHT POLES SHALL BE INVENTORIED, REMOVED AND STORED BY THE CONTRACTOR FOR REINSTALLATION ON RELOCATED LIGHT POLES.

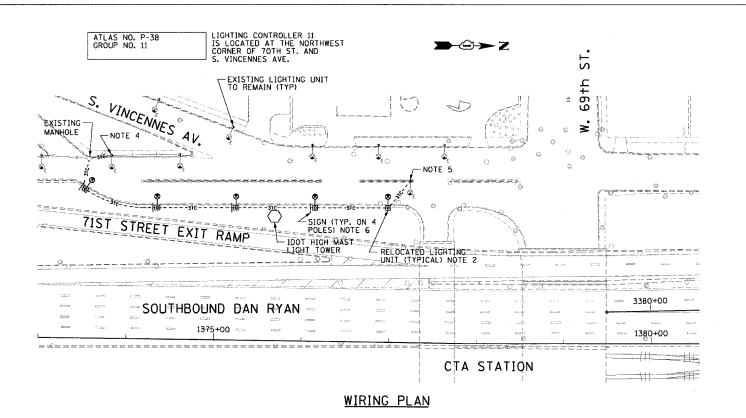
0 50 100

DATE: June 9, 2006

E-3

CHECKED BY: JPC

REVISIONS NAME DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY)		
	63RD STREET TO GARFIELD BLVD (SB LOCAL LANES)		
	EXISTING PLAN		
	PROPOSED CONDUIT AND FOUNDATION PLAN		
	SCALE: 1"=50" DRAWN BY: HAR		



| F.A.I. | SECTION | COUNTY | TOTAL | SHEET | F.A.I. | SHEET | F.A.I. | SHEET | SHEETS | NO. | SHEETS | NO. | SHEETS | NO. | SHEETS | SHEETS | NO. | SHEETS | SHEETS | SHOW | SHEETS | SHOW | SHEETS | SHOW | SHEETS | S

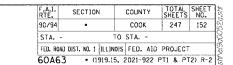
NOTES:

- 1. SEE DRAWINGS E-1 AND E-2 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
- 2. EXISTING 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.
- 4. SPLICE NEW CIRCUIT CABLES TO EXISTING CIRCUIT CABLES AT EXISTING LIGHT POLE OR AS DIRECTED BY THE COMMISSIONER.
- 5. CONNECT EXISTING LIGHT POLE TO NEW CIRCUIT CABLES.
- 6. EXISTING REGULATORY SIGNS SHALL BE REINSTALLED ON LIGHT POLES AS DIRECTED BY THE COMMISSIONER.

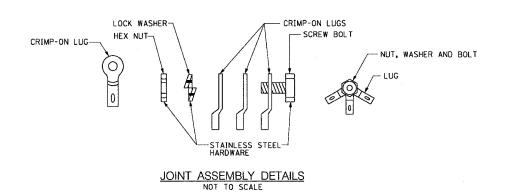
0 50' 100

E-4

REVISIONS NAME	DATE	ILLINOIS DEPARTMENT OF TE F.A.I. 90/94 (DAN RYAN		B PM
		63RD STREET TO GARFIELD BLVD	(SB LOCAL LANES)	5.03:28
		WIRING PLAN	1	00
				3005/
		SCALE: 1"=50"	DRAWN BY: HAR	,05
		DATE: June 9, 2006	CHECKED BY: JPC	9



- 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.



1-1/C*10 CND (GREEN)
TO LUMINAIRE

1-1/C*10 CND (GREEN)
TO LUMINAIRE

1-1/C*10 CND (GREEN)
TO LUMINAIRE

1-1/C*10 CND (GREEN)

1-1/C

WALL MOUNTED POLE BASE WIRING DETAIL NOT TO SCALE

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

MISCELLANEOUS ELECTRICAL DETAILS

SCALE: AS SHOWN DATE: June 9, 2006

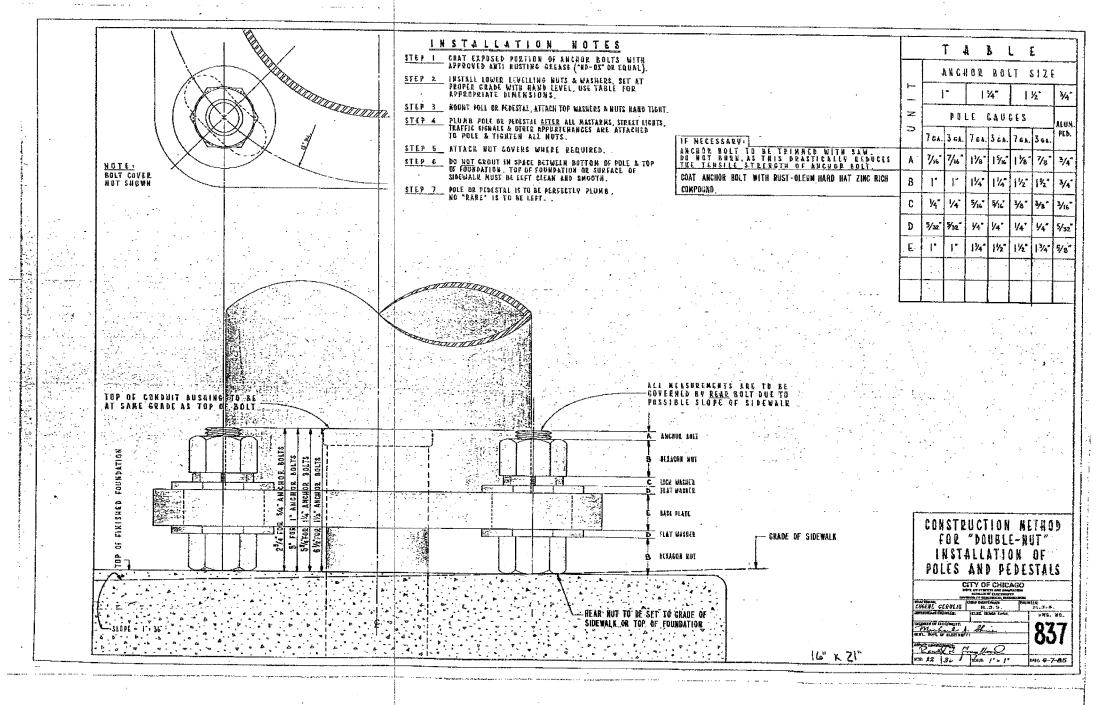
DRAWN BY: HAR CHECKED BY: JPC

E-5

CTE AECOM

F.A.I. RTE.	SECTION	٧	COUN	ΓY	TOTAL SHEETS	SHEET NO.
90/94	•		COO	<	247	153
STA.		7	TO STA.			
FED. RO	DAD DIST, NO. 1	ILLIN	OIS FED.	AID	PROJECT	
6046	33 • (1	919.15	5. 2021-9	322 P	T1 & P1	(2) R-2

1. 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.



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

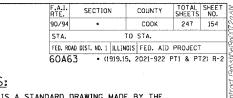
SCALE: NOT TO SCALE
DATE: June 9, 2006

DRAWN BY: HAR CHECKED BY: JPC

E-6

CTE | AECOM

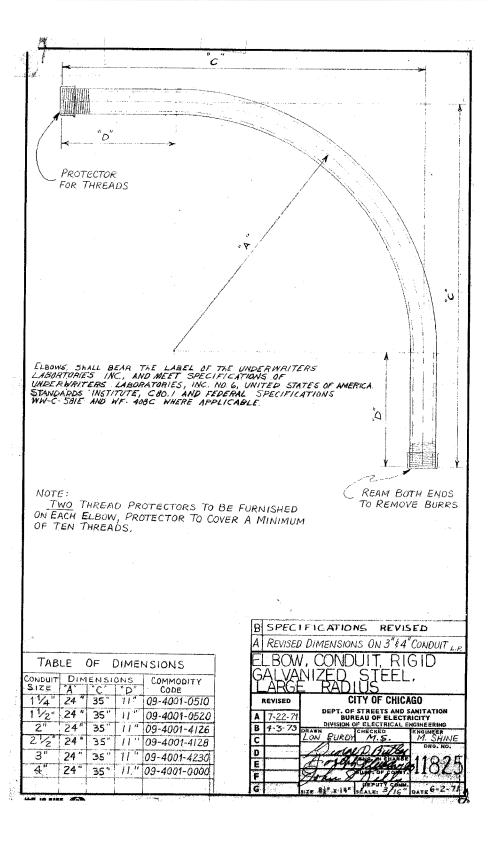
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1. THIS IS A STANDARD DRAWING MADE BY THE CITY OF CHICAGO, DEPARTMENT OF STREETS AND SANITATION, BUREAU OF ELECTRICITY. THIS DRAWING IS INCLUDED FOR THE CONVENIENCE OF THE CONTRACTOR.

THE X A G O N N U T TARE MATE, STD. MEANY SEX. FLAT BUT (ANSI S 16. 2.2 - 1972)	2.045 max. 1.312 may. 2.045 max. 1.271 may. 2.045 max. 1.271 may. 2.045 max. 1.271 may. 2.045 max. 2.045
U.S. STARDARD 1½"-7 N. C. ROLLED THREAD A ZINC COATING, O. DOZI INC SMALL BE APPLIED DY R.T. HIS COVERED WITH MEADY NO-6X-1 RUST IN HIBLITING COMPOUND	NATERIAL: ASTA AAOQ, CERET R-2 ADDIFIED STEEL, 35 000 Lbs. MINIAUM VIELD. MARDMARE TO BE FORKISHED & ATTACRED IN PLACE OF ROD FOR SHIPPING:

		E-7
REVISIONS NAME DATE	ILLINOIS DEPARTMENT F.A.I. 90/94 (DAN F	
	63RD STREET TO GARFIELD	BLVD (SB LOCAL LANES)
	STANDARD BO	DE DETAILS
	SCALE: NOT TO SCALE	DRAWN BY: HAR
	DATE: June 9, 2006	CHECKED BY: JPC



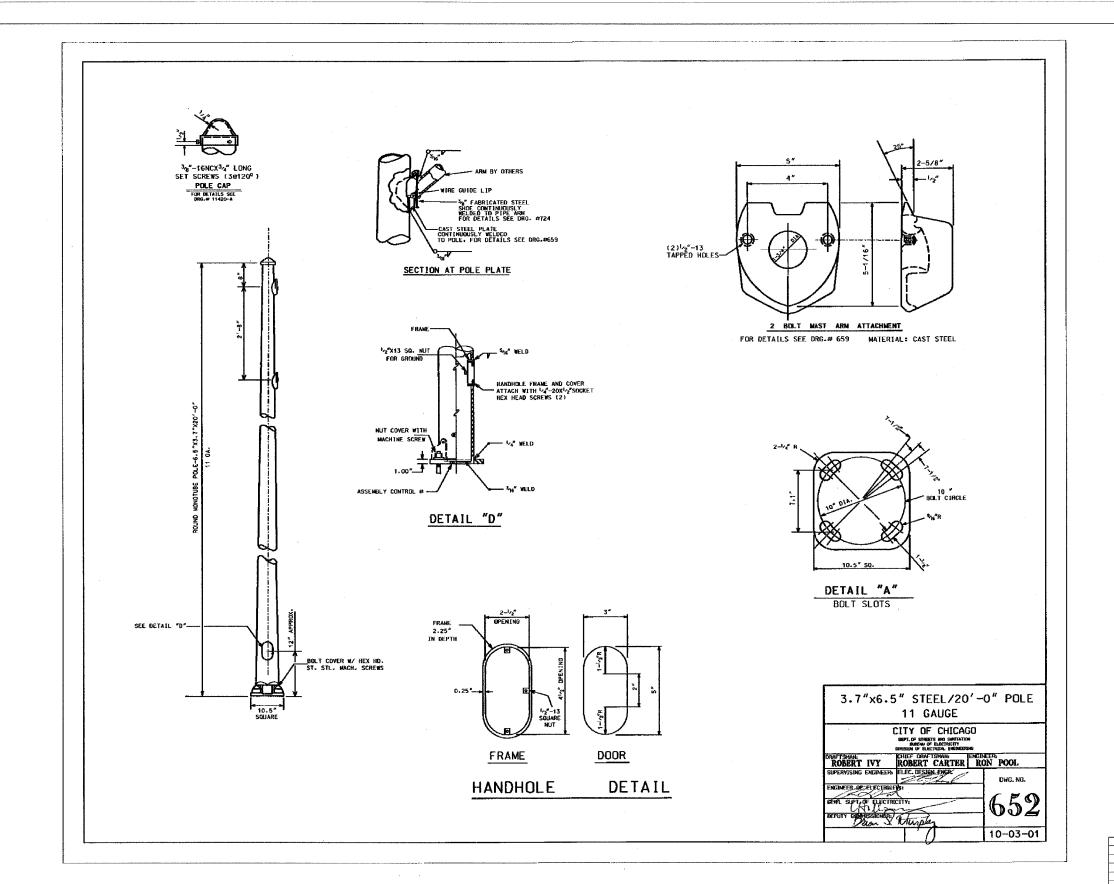
60A63 • (1919.15, 2021-922 PT1 & PT2) R-2

NOTES:

1. 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.

E-8

REVISIONS NAME DATE	ILLINOIS DEPARTMENT OF F.A.I. 90/94 (DAN RYA	N EXPRESSWAY)
	63RD STREET TO GARFIELD BL	AD (2R FOCAT TAVES)
	STANDARD BOE	DETAILS
	SCALE: NOT TO SCALE	DRAWN BY: HAR
	DATE: June 9, 2006	CHECKED BY: JPC

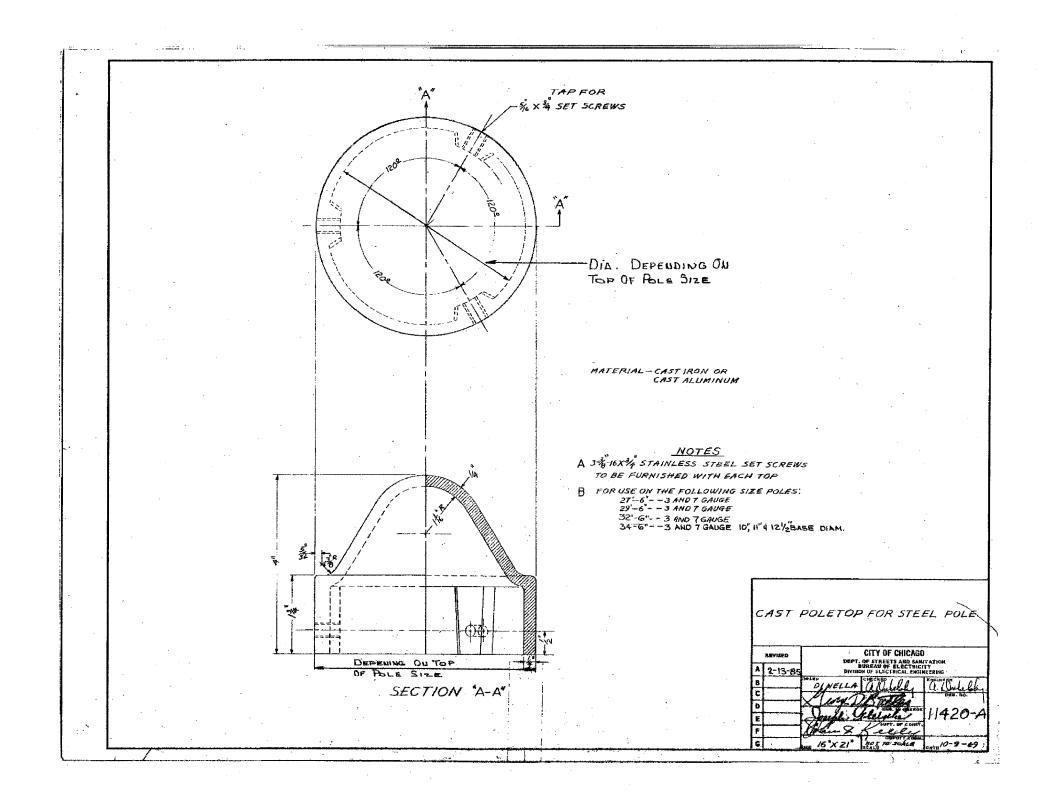


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
90/94	• .	COOK	247	156				
STA.	STA. TO STA.							
FED. RO	STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
60A6	60A63 • (1919.15, 2021-922 PT1 & PT2) R-2							

1. 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.

E-9

REVISIONS	ILLINOIS DEPARTMENT OF	TRANSPORTATION
NAME DATE	F.A.I. 90/94 (DAN RY)	
	63RD STREET TO GARFIELD B	LVD (SB LOCAL LANES)
	STANDARD BOE	DETAILS
	SCALE: NOT TO SCALE	DRAWN BY: HAR
	DATE: June 9, 2006	CHECKED BY: JPC

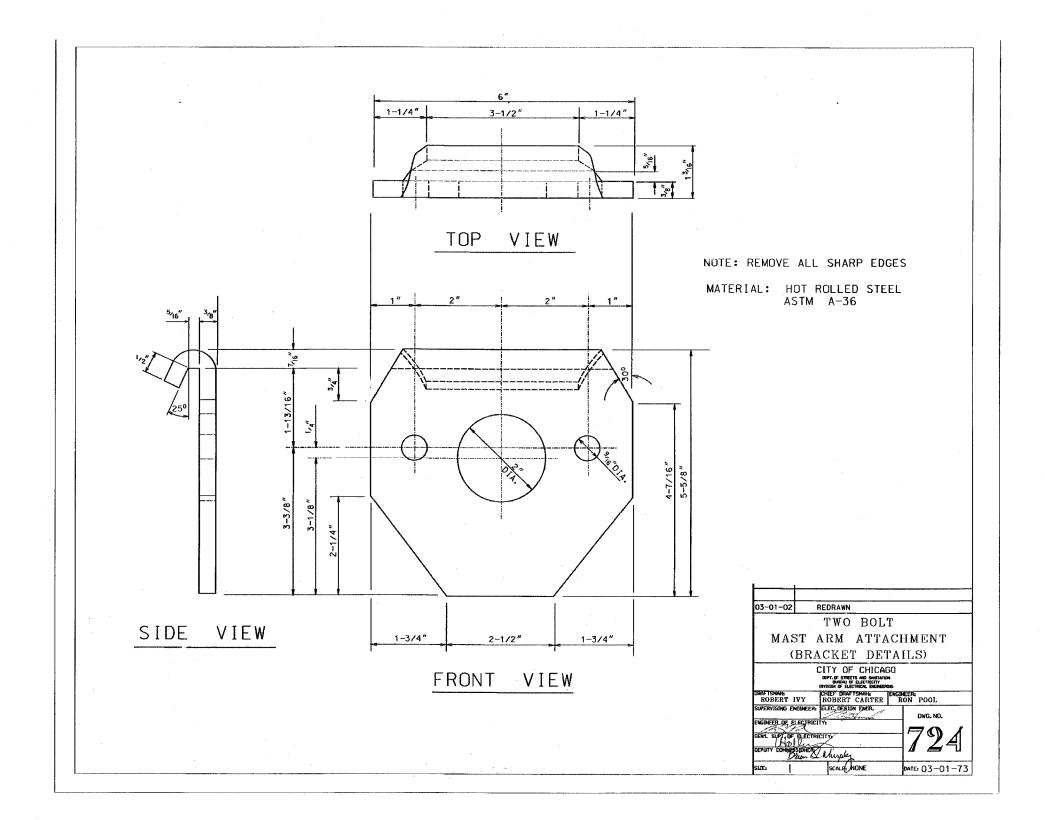


F.A.I. RTE.	SECTION	ı	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	•		соок	247	157
STA.		то	STA.		
FED. RO	AD DIST. NO. 1	ILLINOIS	FED. AI	D PROJECT	
60A6	3 • 09	919.15, 2	2021-922	PT1 & PT	2) R-2

1. 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.

E-10

REVISIONS	ILLINOIS DEPARTMENT OF	TRANSPORTATI	ΩN
NAME DATE	F.A.I. 90/94 (DAN RYAN		
	1 - Mail SOY DE TORIN INTERIO	LAINESSII	
	63RD STREET TO GARFIELD BLV	D (SB LOCAL	LANES)
	STANDARD BOE (DETAILS	
	SCALE: NOT TO SCALE	DRAWN BY:	
	SCALE: NOT TO SCALE	URAWN BT:	HAR
	DATE: June 9, 2006	CHECKED BY:	JPC .

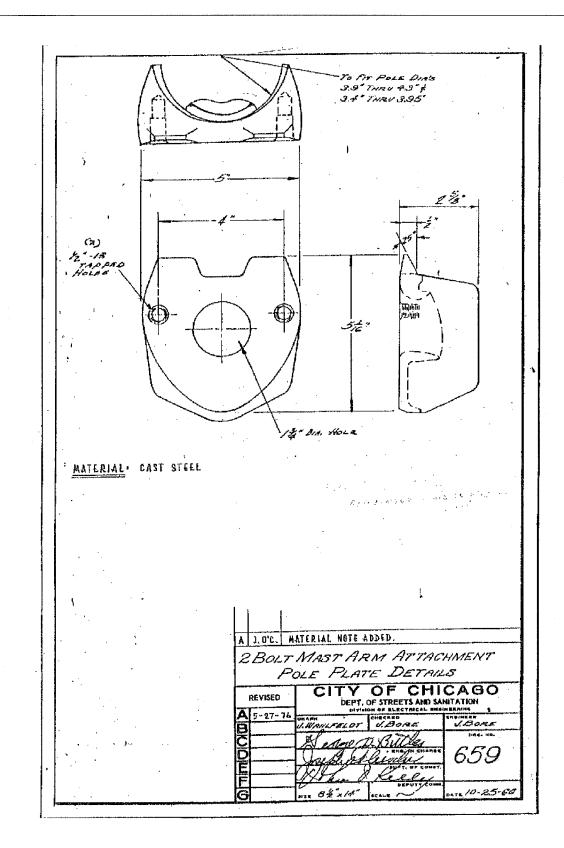


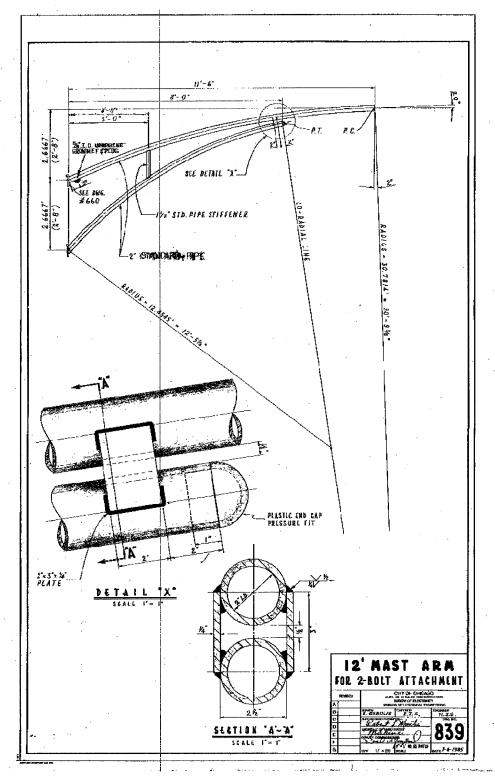
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
90/94	•	COOK	247	158				
STA.	STA. TO STA.							
FED. RO	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
60A6	60A63 • (1919.15, 2021-922 PT1 & PT2) R-2							

1. 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.

E-11

REVISIONS	ILLINOIS DEPARTMEN	T OF TRANSPORTATION	7
NAME DATE		RYAN EXPRESSWAY)	W.J
		THE ENTIRE DOMAIN	
	63RD STREET TO GARFIE	LD BLVD (SB LOCAL LANES)	03:01:10
			Š
	CT AND ADD	DOE DETAILS	0
	STANDARD	BOE DETAILS	1
			2006
	•		Š
	SCALE: NOT TO SCALE	DRAWN BY: HAR	02
	DATE: June 9, 2006	CHECKED BY: JPC	190
			





F.A.I. RTE.	SECTION	SECTION COUNTY		TOTAL SHEETS	SHEET NO,
90/94	•		COOK	247	159
STA.		то	STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
60A63	• (19:	19.15, 2	2021-922	PT1 & P1	2) R-2

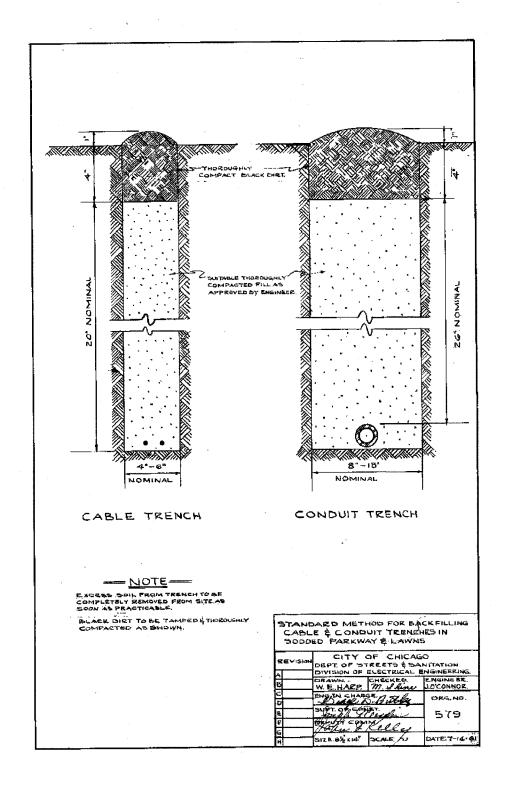
1. THIS IS A STANDARD DRAWING MADE BY THE CITY OF CHICAGO, DEPARTMENT OF STREETS AND SANITATION, BUREAU OF ELECTRICITY. THIS DRAWING IS INCLUDED FOR THE CONVENIENCE OF THE CONTRACTOR.

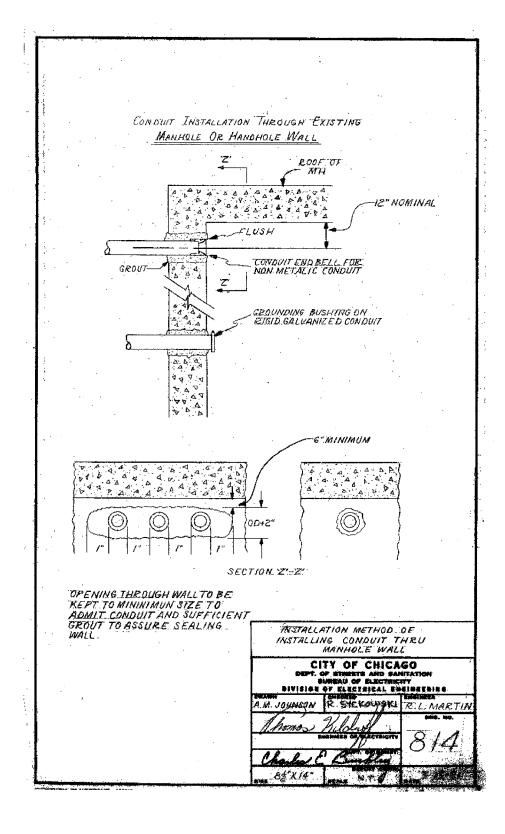
E-12

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
		63RD STREET TO GARFIELD BLVD (SB LOCAL LANE
		67.110.100 Dec 057.11.6
		STANDARD BOE DETAILS

SCALE: NOT TO SCALE

DRAWN BY: HAR CHECKED BY: JPC



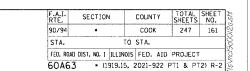


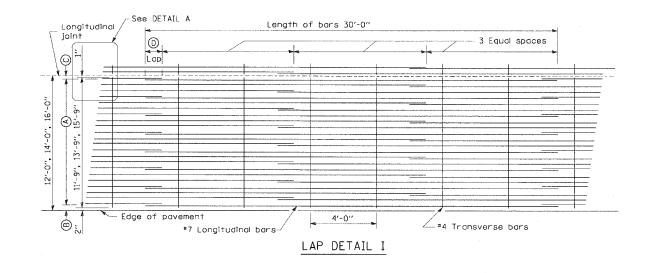
F.A.I. RTE.	SECTION	COL	COUNTY		SHEET NO.	
90/94	•		соок		247	160
STA.			TO ST	۸.	*,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	to a programme, new room
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						
60A6	3 • 11	919.1	5, 202	1-922 F	T1 & PT	(2) R-2

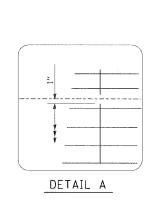
1. THIS IS A STANDARD DRAWING MADE BY THE CITY OF CHICAGO, DEPARTMENT OF STREETS AND SANITATION, BUREAU OF ELECTRICITY. THIS DRAWING IS INCLUDED FOR THE CONVENIENCE OF THE CONTRACTOR.

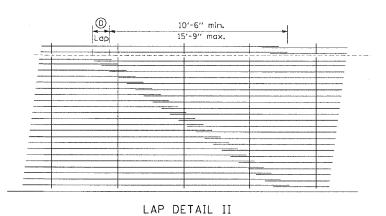
E-13

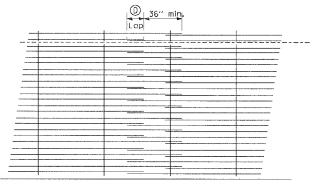
REVISION	NS .	ILLINOIS DEPARTMENT OF TRA	NSPORTATION
NAME	DATE	F.A.I. 90/94 (DAN RYAN E)	
		63RD STREET TO GARFIELD BLVD (SB LOCAL LANES
		STANDARD BOE DET	AILS
		SCALE: NOT TO SCALE D	RAWN BY: HAR
		DATE: June 9, 2006 C	HECKED BY: JPC











LAP DETAIL III

Pavement Width	Bar Size	Povement Thickness	(Approx. Spacing)	₿	0	0
12 feet	#7	14"	26 spaces (27 bars) @ 5 ¹ / ₄ ''	31/2"	3"	26"
14 feet	#7	14"	30 spaces (31 bars) @ 53/8"	31/2"	3′′	26"
16 feet	#7	14"	35 spaces (36 bars) @ 51/4"	31/2"	3"	26"

GENERAL NOTES

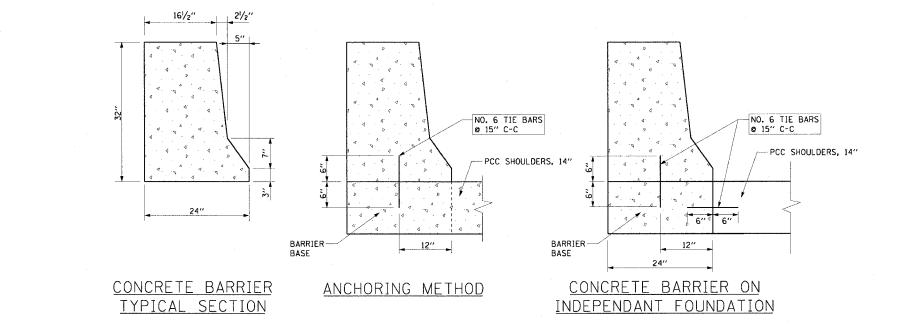
- 1. THE PAVEMENT REINFORCEMENT SHALL BE 4.5" FROM THE TOP OF PAVEMENT.
- EXCEPT AS NOTED OR SHOWN, THE DIMENSIONS AND NOTES SPECIFIED FOR LAP DETAIL 1 ARE TYPICAL FOR LAP DETAIL 11 AND III.
- 3. THE ® DIMENSION AND THE DISTANCE FROM THE END OF THE TRANSVERSE BAR TO THE EDGE OF PAVEMENT MAY BE INCREASED BY 1" FOR SLIP FORM PAVING.

PDT.

				RDT-1
REVISIONS NAME	DATE		NT OF TRANSPORTATI	
		63RD STREET TO GARFIE	ELD BLVD (SB LOCAL	LANES)
		ROADWAY EXTENDED LANE R CONTINUOUSLY REINFO		R
		SCALE: NONE	DRAWN BY:	NJH
	 	DATE: June 9, 2006	CHECKED BY:	RMG

CTE AECOM





2' SHELF 4%

CAPABLE OF SOIL RETENTION

BARRIER

MONOLITHIC CONCRETE BARRIER

IF SOIL RETENTION IS USED, 14" PCC SHOULDER PAVEMENT MUST BE IN PLACE PRIOR TO BACKFILLING BARRIER WALL

BASE

PCC SHOULDERS, 14" BARRIER

CONCRETE BARRIER INTEGRAL WITH PCC SHOULDERS, 14"

BASE

NO. 6 TIE BARS @ 15" C-C

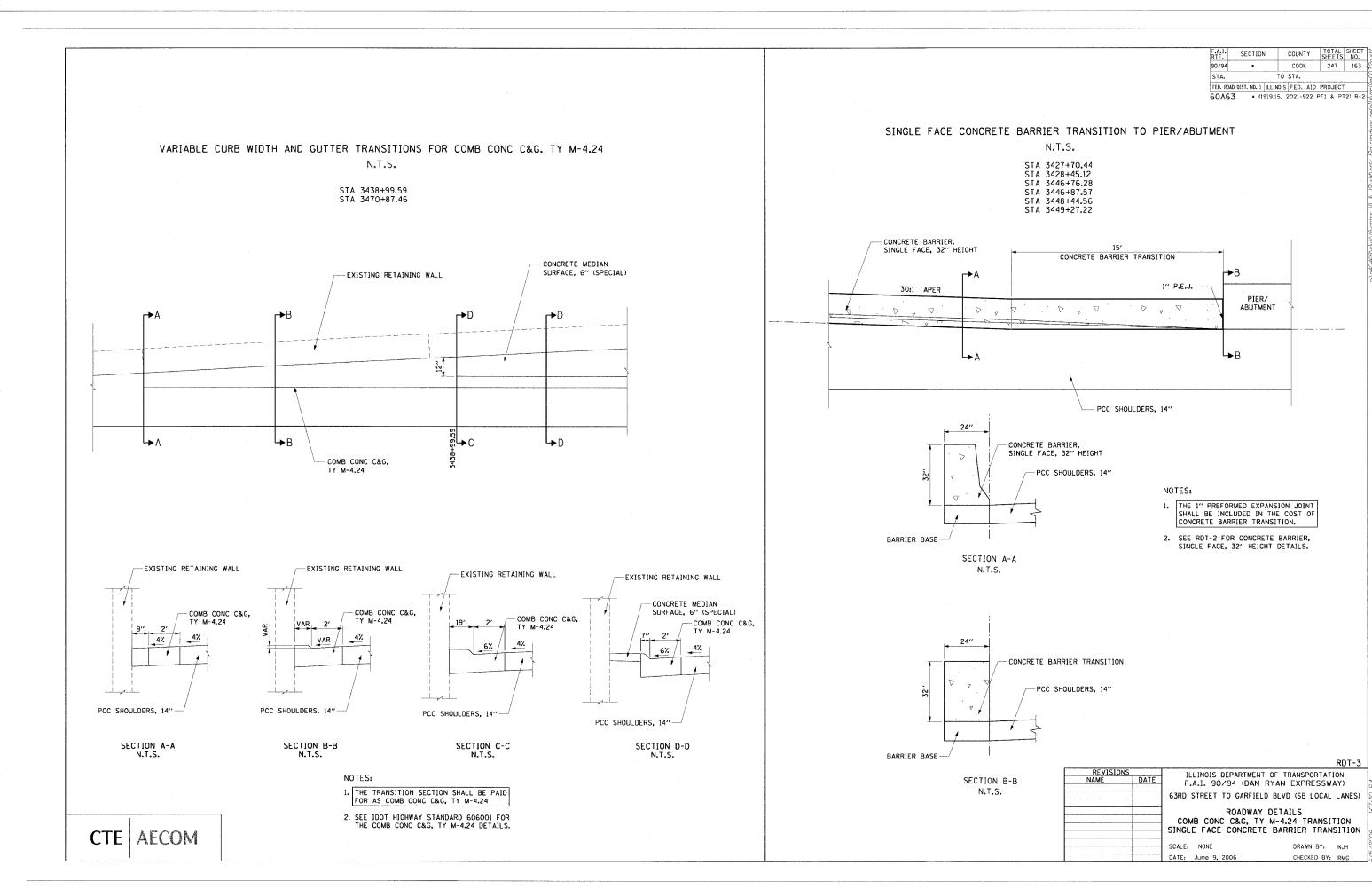
-PCC SHOULDERS, 14"

CONCRETE BARRIER, SINGLE FACE, 32" HEIGHT

NOTE:

- 1. TIE BARS SHALL BE EPOXY COATED AND INCLUDED IN THE COST OF CONCRETE BARRIER, SINGLE FACE, 32" HEIGHT AND BARRIER BASE.
- 2. THE CONTRACTOR HAS THE OPTION OF CHOOSING BETWEEN ANCHORING METHODS SHOWN ON THIS

	RD	T-2
IONS DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY)	MA
	63RD STREET TO GARFIELD BLVD (SB LOCAL LAI	NES) 67:201
	ROADWAY DETAILS CONCRETE BARRIER, SINGLE FACE, 32" HE	IGHT
	SCALE: NONE DRAWN BY: NJ:	- 2/2006
	DATE: June 9, 2006 CHECKED BY: RM	G S



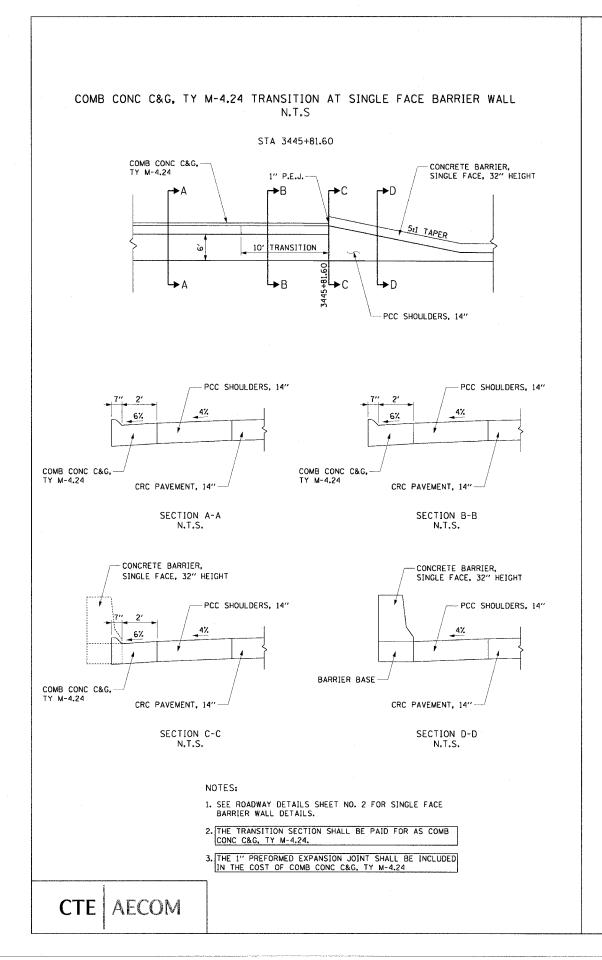
соок

247 163

RDT-3

DRAWN BY: NJH

CHECKED BY: RMG



DOUBLE FACE BARRIER WALL ELEVATIONS N.T.S.

LOCAL LANE	EL	EVATIO	N	LOCAL LANE	El	.EVATIO	N	LOCAL LANE	EL	EVATION	N
STATION	"X"	″Υ″	T/WALL	STATION	"X"	"Υ"	T/WALL	STATION	"X"	"γ"	T/WALL
3423+00.00	2.20	3.79	6.46	3440+00.00	0,42	1.07	3,74	3460+75.00	-3.66	-2.09	0.58
3423+25.00	2.44	3.77	6.44	3440+25.00	0.67	1.33	4.00	3461+00.00	-3.55	-1.99	0.68
3423+50.00 3423+75.00	2.61 2.77	3.73 3.68	6.39 6.35	3440+50.00 3440+75.00	0.92	1.58 1.83	4.25 4.50	3461+25.00 3461+50.00	-3.39 -3.19	-1.86 -1.69	0.80
3424+00.00	2.90	3.63	6.30	3441+00.00	1.37	2.08	4.75	3461+75.00	-2.96	0.71	3.38
3424+25.00	3.00	3.56	6.23	3441+25.00	1.56	2.30	4.97	3462+00.00		ST Br	
3424+50 . 00 3424+75 . 00	3.08 3.14	3.53 3.52	6.20	3441+50.00 3441+75.00	1.72	2.50 2.67	5.17 5.34	3462+25.00 3462+50.00	57†r 57†r	ST Br	idge idge
3425+00.00	3.18	3.58	6.25	3442+00.00	1.97	2.82	5.49	3462+75.00	-1.61	-0.48	2.19
3425+25.00	3.19	3.64	6.31	3442+25.00	2.06	2.94	5.61	3463+00.00	-1.25	-0.23	2,44
3425+50.00	3.17	3.67	6.34	3442+50.00	2.12	3.03	5.70	3463+25.00	-0.88 -0.53	0.02	2.69
3425+75.00 3426+00.00	3.13 3.07	3.70 3.70	6.37	3442+75.00 3443+00.00	2.15	3.10 3.14	5.77 5.81	3463+50.00 3463+75.00	-0.19	0.27	2.94 3.19
3426+25.00	2.98	3.70	6.37	3443+25.00	2.15	3.15	5.82	3464+00.00	0.12	0.77	3,44
3426+50.00	2.87	3.68	6.35	3443+50.00	2,10	3.14	5.81	3464+25.00	0.41	1.02	3.69
3426+75.00	2.75	3.65	6.32	3443+75.00	2.03	3.10	5.77	3464+50.00	0.68	1.27	3.94 4.17
3427+00.00 3427+25.00	2.61	3.60 3.52	6.27	3444+00.00 3444+25.00	1.93 1.85	3.04 2.97	5.71 5.63	3464+75.00 3465+00.00	0.92	1.50	4.17
3427+50.00	CONRAI			3444+50.00	1.73	2.87	5.54	3465+25.00	1.34	1.88	4.55
3427+75.00	CONRAI			3444+75.00	1.57	2.70	5.37	3465+50.00	1.52	2.04	4,71
3428+00.00	CONRAI			3445+00.00	1.40	2.53	5.20	3465+75.00	1.66	2.18	4.85
3428+25.00 3428+50.00	1.98	3.15 3.02	5.82	3449+00.00 3449+25.00	59+h			3466+00.00 3466+25.00	1.80	2.30	4.97 5.06
3428+75.00	1.74	2.90	5.57	3449+50.00	-3.27	-3.17	-0.50	3466+50.00	1.99	2.47	5.14
3429+00.00	1.59	2.77	5,44	3449+75.00	-3.43	-3.24	-0.58	3466+75.00	2.05	2.52	5.19
3429+25.00	1.44	2,65	5.32	3450+00.00	-3.54	-3.27	-0.61	3467+00.00	2.09	2.55	5.22
3429+50.00	1.31	2.52	5,19	3450+25.00	-3.61	-3.25	-0.59	3467+25.00	2.10	2.56	5.23
3429+75.00 3430+00.00	1.19	2.40	5.07 4.94	3450+50.00 3450+75.00	-3.64 -3.62	-3.19 -3.08	-0.53 -0.41	3467+50.00 3467+75.00	2.10	2.56	5.23
3430+25.00	0.94	2.15	4.82	3451+00.00	-3.57	-2.91	-0.41	3468+00.00	2.02	2.56	5.23
3430+50.00	0.81	2.02	4.69	3451+25.00	-3.48	-2.63	0.04	3468+25.00	1.95	2.42	5.09
3430+75.00	0.69	1.90	4.57	3451+50.00	-3,34	-2.33	0.33	3468+50.00	1.86	2.29	4.96
3431+00.00	0.56	1.77	4.44	3451+75.00	-3.16	-2.05	0.62	3468+75.00	1.74	2.15	4.82
3431+25.00 3431+50.00	0.44	1.65	4.32 4.19	3452+00.00 3452+25.00	-2.95 -2.69	-1.76 -1.47	1.20	3469+00.00 3469+25.00	1.61	2.01 1.84	4.68 4.51
3431+75,00	0.19	1.40	4.07	3452+50.00	-2.41	-1.19	1.47	3469+50.00	1.27	1.66	4.33
3432+00.00	0.06	1.27	3.94	3452+75.00	-2.15	-0.93	1.74	3469+75.00	1.07	1.45	4.12
3432+25.00	-0.06	1.15	3.82	3453+00.00	-1.86	-0.67	2.00	3470+00.00	0.85	1.22	3.89
3432+50.00	-0.19	1.02	3.69	3453+25.00	-1.65	-0.47	2.20	3470+25.00	0.60	0.97	3.64
3432+75.00 3433+00.00	-0.31 -0.44	0.90	3.57	3453+50.00 3453+75.00	-1.45 -1.26	-0.28 -0.10	2.38	3470+50.00 3470+75.00	0.34	0.70	3.37
3433+25.00	-0.56	0.65	3.32	3454+00.00	-1.11	0.04	2.71	3471+00.00	-0.23	0.16	2.83
3433+50.00	-0.69	0.52	3.19	3454+25.00	-0.99	0.17	2.84	3471+25.00	-0.52	-0.12	2,55
3433+75.00	-0.81	0.40	3.07	3454+50.00	-0.89	0.28	2.94	3471+50.00	-0.80	-0.39	2,28
3434+00.00 3434+25.00	-0.94 -1.06	0.27	2.94	3454+75.00	-0.82 -0.79	0.36	3.03	3471+75.00 3472+00.00	-1.09 -1.37	-0.66 -0.93	2.01 1.74
3434+50.00	-1.18	0.13	2.69	3455+25.00	-0.77	0.45	3.12	3472+25.00	-1.65	-1.20	1.47
3434+75.00	-1.30	-0.10	2.57	3455+50.00	-0.78	0.46	3.13	3472+50.00	-1.87	-1.43	1.24
3435+00.00	-1.43	-0.23	2,44	3455+75.00	-0.83	0.46	3.13	3472+75.00	-2.05	-1.63	1.04
3435+25.00	-1.55	-0.35	2.32	3456+00.00	-0.90	0.44	3.10	3473+00.00	-2.20	-1,77	0.90
3435+50.00 3435+75.00	-1.68 -1.80	-0.48	2.19	3456+25.00 3456+50.00	-0.99 -1.11	0.38	3.05 2.97	3473+25.00 3473+50.00	-2.30 -2.36	-1.88 -1.93	0.79
3436+00.00	-1.93	-0.73	1.94	3456+75.00	-1.25	0.20	2.87	3473+75.00	-2.38	-1.94	0.72
3436+25.00	-2,03	-0.85	1.82	3457+00.00	-1.43	0.08	2.75	3474+00.00		st Br	idge
3436+50.00	-2.09	-0.96	1.71	3457+25.00	-1.62	-0.07	2.60	3474+25.00		ST Br	
3436+75.00	-2,11	-1.02	1.65	3457+50,00	-1.84	-0.24	2.43	3474+50.00		ST Br	
3437+00.00 3437+25.00	-2.09 -2.02	-1.05 -1.04	1.62	3457+75.00 3458+00.00	-2.05 -2.26	-0.43 -0.65	2.24	3474+75.00 3475+00.00	-2.04 -1.85	-1.54 -1.33	1.12
3437+50.00	-1.91	-0.99	1.68	3458+25.00	-2,48	-0.89	1.78	5.75.750100		1100	
3437+75.00	-1.76	-0.91	1.76	3458+50.00	-2.69	-1.14	1.53				
3438+00.00	-1.57	-0.79	1.88	3458+75.00	-2.91	-1.39	1.28				
3438+25.00	-1.33	-0.63	2.04	3459+00.00	-3.11	-1.62	1.05				
3438+50.00 3438+75.00	-1.08 -0.83	-0.43 -0.19	2.24	3459+25.00 3459+50.00	-3.32 -3.50	-1.82 -1.97	0.85				
3439+00.00	-0.58	0.06	2.73	3459+75.00	-3.62	-2.09	0.58				
3439+25.00	-0.33	0.31	2.98	3460+00.00	-3.69	-2.15	0.52				
3439+50.00	-0.08	0.57	3.24	3460+25.00	-3.74	-2.17	0.50				
3439+75.00	0.17	0.82	3.49	3460+50.00	-3.73	-2.14	0.53				

/ T/WALL
CONCRETE BARRIER,
/ DOUBLE FACE, 32" HEIGHT
LOCAL LANES // EXPRESS LANES
— EL "Y"
EL "X" — / / /
EXISTING PCC SHOULDERS
PCC SHOULDERS, 14"—\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
SUB-BASE GRANULAR — / /
MATERIAL, TY B 24"
EXISTING STABILIZED
STABILIZED SUB-BASE, 6" SUB-BASE
3176121229 330 BA32, 0
BARRIER BASE — EXISTING SUB-BASE
GRANULAR MATERIAL
DOUBLE FACE BARRIER WALL
N.T.S.
NOTES:
1 CEE IDAT HICHWAY CTANDADD CZZOOL FOD

SECTION

STA

COUNTY соок

TO STA.

FED. ROAD DIST, NO. 1 ILLINOIS FED. AID PROJECT 60A63 • (1919.15, 2021-922 PT1 & PT2) R-

247 164

- 1 SEE IDOT HIGHWAY STANDARD 637001 FOR DOUBLE FACE CONCRETE BARRIER DETAILS.
- 2. THE EDGE OF THE BARRIER WALL ALONG THE EXPRESS LANES SHOULDER SHALL MATCH THE EXISTING SHOULDER ELEVATION.
- 3. ELEVATIONS ARE TAKEN AT THE TOE OF THE DOUBLE FACE BARRIER WALL.
- 4. SEE RDT-5 FOR CONSTRUCTION OF THE SUB-BASE GRANULAR MATERIAL UNDER THE PROPOSED DOUBLE FACE BARRIER WALL.

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

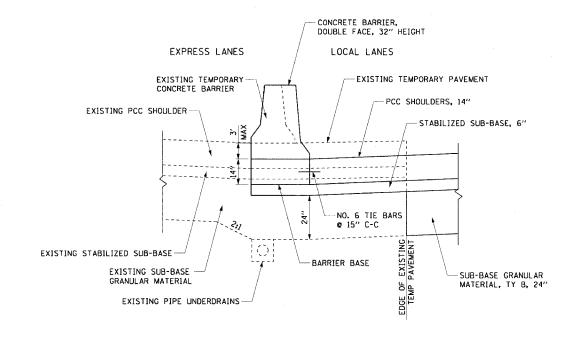
ROADWAY DETAILS C&G TRANSITION AT SF BARRIER WALL DOUBLE FACE BARRIER WALL ELEVATIONS

SCALE: NONE DATE: June 9, 2006

DRAWN BY: NJH CHECKED BY: RMG

RDT-4

CONSTRUCTION OF SUB-BASE GRANULAR MATERIAL UNDER PROPOSED DOUBLE FACE BARRIER WALL



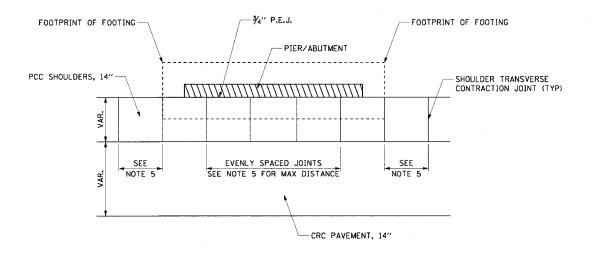
EXISTING EXPRESS LANES HIGHER THAN PROPOSED LOCAL LANES N.T.S. $\ensuremath{\mathsf{N}}$

NOTES:

- 1. SEE IDOT HIGHWAY STANDARD 637001 FOR DOUBLE FACE CONCRETE BARRIER DETAILS.
- 2. THE TOE OF THE PROPOSED BARRIER WALL ALONG THE EXPRESS LANES SHOULDER SHALL MATCH THE EDGE OF THE EXISTING SHOULDER.
- 3. SEE RDT-4 FOR DOUBLE FACE BARRIER WALL ELEVATIONS.
- PROPOSED SUB-BASE GRANULAR MATERIAL, TY B, 24" SHALL BE CONSTRUCTED BEGINNING AT THE EDGE OF THE EXISTING TEMPORARY PAYEMENT.
- 5. IF THE BARRIER BASE IS CONSTRUCTED INDEPENDENTLY OF THE PCC SHOULDER, THE TIE BARS SHALL BE PLACED AT A DEPTH WHERE THE BAR TIES THE BARRIER BASE TO THE "LOW SIDE" PCC SHOULDER.
- 6. TIE BARS SHALL BE NO. 6 EPOXY COATED, 12" LONG, 15" C-C AND SHALL BE INCLUDED IN THE COST OF THE BARRIER BASE.

F.A.I. RTE.	SECTION	SECTION COUNTY			SHEET NO.		
90/94	*		COOK	247	165		
STA.		TO STA.					
FED. ROAE	DIST. NO. 1	ILLINOIS	FEO. AIC	PROJECT			
60A63	3 • (1	919.15,	2021-922	PT1 & PT	(2) R-2		

SHOULDER JOINTS AT PIERS AND ABUTMENTS



NOTES

- CARE SHOULD BE TAKEN WHEN EXCAVATING NEAR AND AROUND EXISTING PIERS AND ABUTMENTS.
- 2. THE CONTRACTOR SHALL VERIFY THE FOOTPRINT OF THE FOOTING DURING EXCAVATION.
- 3. THE MINIMUM WIDTH BETWEEN SHOULDER TRANSVERSE CONTRACTION JOINTS SHOULD BE NO LESS THAN 7' C-C.
- 4. 34" P.E.J. SHALL BE INCLUDED IN THE COST OF PCC SHOULDERS, 14".
- 5. THE SPACING OF THE SHOULDER TRANSVERSE CONSTRUCTION JOINT SHALL BE 20' C-C ALONG THE INSIDE SHOULDER AND 15' C-C ALONG THE OUTSIDE SHOULDER.

RDT-5

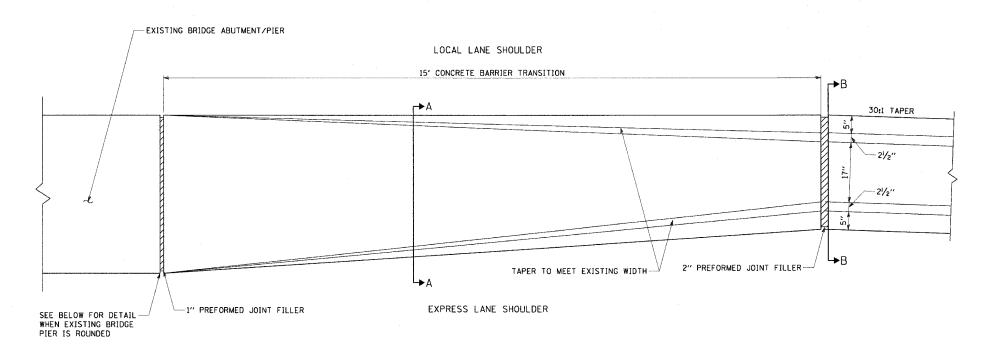
CHECKED BY: RMG

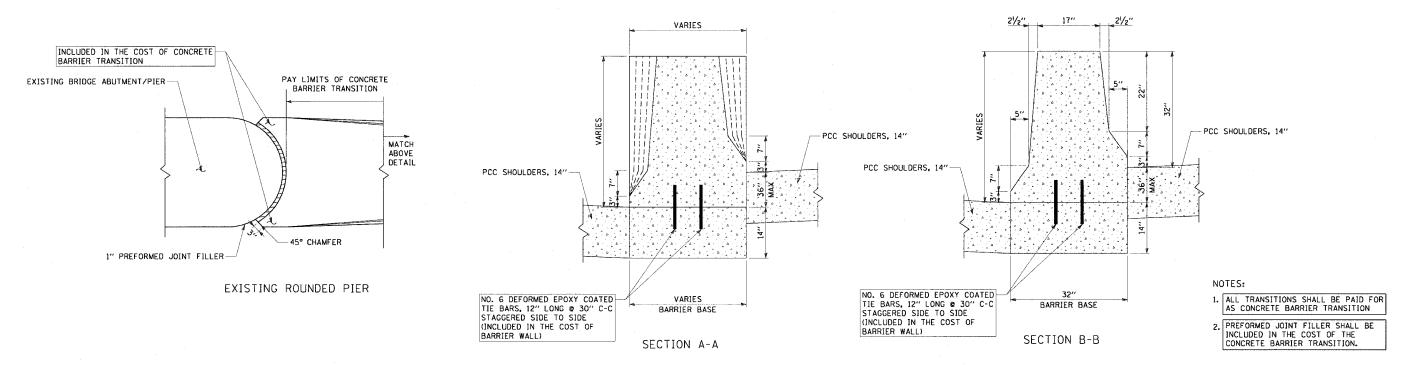
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
		TANTE SOY ST TORIT INTAKE ENTINESSHATI
		63RD STREET TO GARFIELD BLVD (SB LOCAL LANES)
		ROADWAY DETAILS
		SHOULDER JOINTS AT PIERS AND ABUTMENTS
		CONSTRUCTION OF SUB-BASE GRAN MATERIAL
		SCALE; NONE DRAWN BY: NJH

DATE: June 9, 2006

DOUBLE FACE CONCRETE BARRIER TRANSITION N.T.S.







NAME DATE F.A.I 63RD STF

RDT-6

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)

63RD STREET TO GARFIELD BLVD (SB LOCAL LANES)

ROADWAY DETAILS
DOUBLE FACE CONCRETE BARRIER TRANSITION

SCALE: NONE DATE: June 9, 2006

DRAWN BY: NJH CHECKED BY: RMG

CTE AECOM

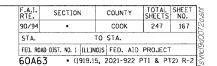
BENCHING DETAIL FOR EMBANKMENT N.T.S.

PROPOSED FORESLOPE -

VARIES VARIES

TOPSOIL -

REMOVAL AND DISPOSAL OF-UNSUITABLE MATERIAL



LEGEND:

EARTH EXCAVATION (SPECIAL)

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL

NOTES:

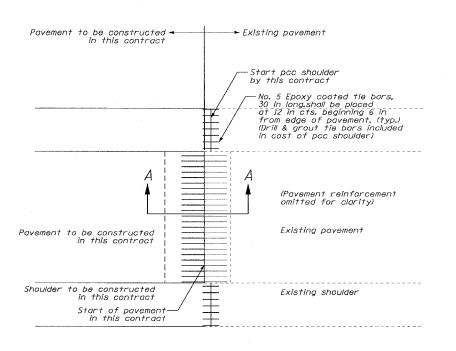
- 1. SEE LANDSCAPING PLANS AND DETAILS FOR TOPSOIL AND SEEDING TYPES.
- THE EXCAVATION OF THE TOP 6" OF EXISTING SOIL SHALL BE PAID FOR AS "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL."
- 3. CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.04 OF THE STANDARD SPECIFICATIONS.
- 5. BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- 6. EQUAL 6-INCH LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.06 OF THE STANDARD
- 7. EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR "EARTH EXCAVATION (SPECIAL)". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 8. SEE CROSS SECTIONS SHEETS FOR EMBANKMENT AREAS THAT NEED TO BE BENCHED.
- BENCHING HEIGHT SHALL BE 1 FOOT TYPICAL WITH A MAXIMUM HEIGHT OF 2.5 FOOT.

		RUI-7
REVISIONS	5	ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
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		63RD STREET TO GARFIELD BLVD (SB LOCAL LANES)
		ROADWAY DETAILS
		BENCHING DETAIL FOR EMBANKMENT

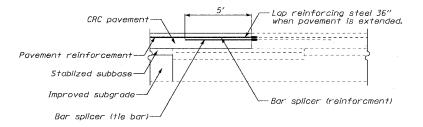
AECOM

SCALE: NONE

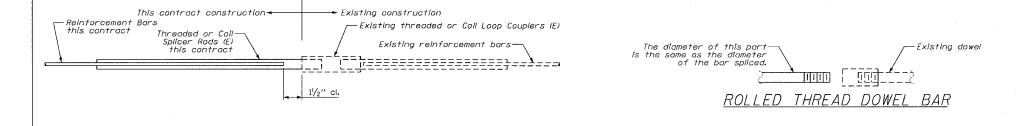
DRAWN BY: NJH CHECKED BY: RMG



PLAN (CONNECTION TO EXISTING LONG TERM TRANSVERSE CONSTRUCTION JOINT)



LONG TERM TRANSVERSE CONSTRUCTION JOINT SECTION A-A



BAR SPLICER ASSEMBLY DETAIL

(E): Indicates epoxy coating.

COUNTY TOTAL SHEE SHEETS NO. SECTION COOK 247 168 90/94 TO STA. FED. ROAD DIST. NO. 1 JULINOIS FED. AID PROJECT 60A63 • (1919.15, 2021-922 PT1 & PT2) R-2

NOTES

- This detail shows connection of proposed CRC pavement to existing pavement at an existing long term transverse construction joint.
- 2. Bar splicer assemblies shall be of an 1DOT approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
- 3. Bar splicers shall be of the "coupler" type, and shall not have flanges.
- 4. Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
- 5. All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
- Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
- 7. Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:
 - A. Minimum Capacity (Tension in ksi) = $1.25 \times fy \times A(t)$
 - B. Minimum *Pull-out Strength (Tension in ksi) = 1.25 x fs (allow) x A(t)

Where:
fy = Yield strength of lapped reinforcement bars in ksi.
fs(allow) = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
A(t) = Tensile stress area of lapped reinforcement bars (in²). * = 28 day concrete

	BAR SPLICER	ASSEMBLIES			
		STRENGTH REQUIREMENTS			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Min. Capacity (kips) tension	Min. Pull-Out Strength (kips) tension		
#5	2'-0"	23.0	9.2		
#6	2'-7"	33.1	13.3		
#7	3′-5″	45.1	18.0		
#8	4'-6"	58.9	23.6		
#9	5'-9"	75.0	30.0		

- 8. Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted.
- 9, Reinforcement shall not be paid for separately but included in the cost of PAVEMENT REINFORCEMENT, 14"
- 10. Connection to long term transverse construction joint work includes the installation of the bar splicers, payment for this work will be included in the cost of CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENTIA".
 Tie bars to be drilled and grouted shall not be paid for separately but included in the cost of PORTLAND CEMENT CONCRETE SHOULDERS, 14"

GENERAL NOTES

- 1. See Standard 421001 for details of CRC pavement reinforcment.
- 2. See Standards 420001 and 420401 for details of joints and tie bars not shown.
- 3. See Standard 483001 for pcc shoulder details

RDT-8

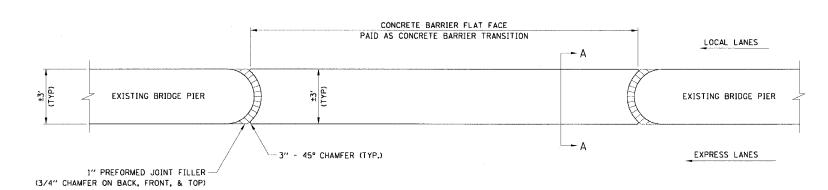
ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 63RD STREET TO GARFIELD BLVD (SB LOCAL LANES) ROADWAY DETAILS CONNECTION TO EXISTING LONG TERM TRANSVERSE CONSTRUCTION JOINT

AECOM

SCALE: NONE DRAWN BY: TAI DATE: June 9, 2006

CHECKED BY: PJM

F.A.I. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
90/94	•	COOK	247	169
STA.		TO STA.		
FED. ROAL	DIST. NO. 1 ILLIN	OIS FED. AID	PROJECT	
6016	3 • (1919.1	5 2021-922	PT1 & PT	2) R-2

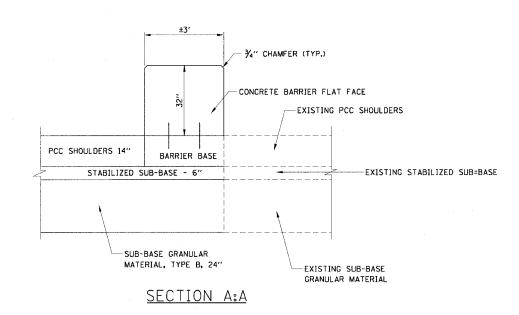


CONCRETE BARRIER FLAT FACE

STA 3474+54.32 TO STA 3475+17.14

NOTES:

1. THE 1" PREFORMED JOINT FILLER SHALL BE INCLUDED IN THE COST OF THE CONCRETE BARRIER TRANSITION



RDT-9

REVISIONS
NAME DATE

F.A.I. 90/94 (DAN RYAN EXPRESSWAY)

63RD STREET TO GARFIELD BLVD (SB LOCAL LANES)

ROADWAY DETAILS
CONCRETE BARRIER FLAT FACE

SCALE: NONE

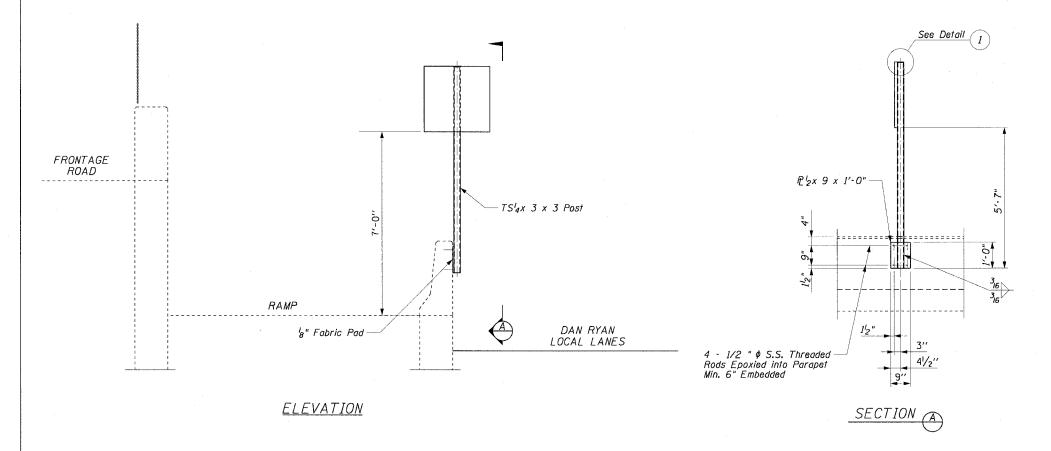
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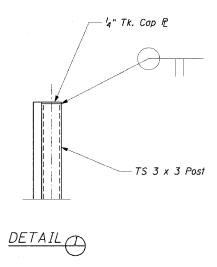
CTE AECOM

EXISTING BARRIER WALL SIGN POST MOUNTING DETAILS

F.A.I. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
90/94			соок	247	170
STA.		TO	STA.		
FFD. ROAL	DIST. NO. 1	ILLINOIS	FED. AJD	PROJECT	

FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT 60A63 • (1919.15, 2021-922 PT1 & PT2) R-2





NOTE

When drilling and epoxy grouting the anchor rods, the Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by IDOT. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or the adhesive cartridge shall be sealed with pre-measured amounts of the adhesive chemical. This associated materials and work performed shall be included in the cost of Base For Telescoping Steel Sign Support.

RDT-10

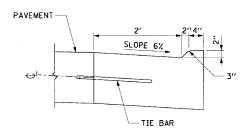
		NOT TO			
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION			
NAME	DATE	F.A.I. 90/94 (DAN RYAN EXPRESSWAY)			
		63RD STREET TO GARFIELD BLVD (SB LOCAL LANES)			
		ROADWAY DETAILS			
		EXISTING BARRIER WALL			
		SIGN POST MOUNTING DETAILS			

SCALE: NONE
DATE: June 9, 2006

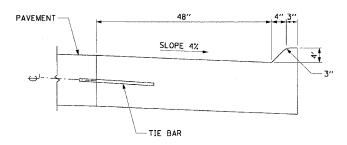
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CTE AECOM

COMB CONC C&G, TY M-2.24 AND M-4.48 (MOD) DETAILS N.T.S.



TY M-2.24



TY M-4.48 (MODIFIED)

NOTES:

- 1. CONTRACTOR SHALL FOLLOW IDOT HIGHWAY STANDARD 606001 FOR GENERAL NOTES AND PROCEDURES
- TIE BARS SHALL BE INCLUDED IN THE COST OF COMB CONC C&G, TY M-2.24 & TY M-4.48 (MOD).
- FOR THE TY M-2.24 C&G, THE TIE BARS SHALL BE NO. 6 DEFORMED EPOXY, 24" LONG AT 24" C-C.
- 4. FOR THE TY M-4.48 (MOD) C&G, THE TIE BARS SHALL BE NO. 8 DEFORMED EPOXY, 30" LONG AT 24" C-C.

C&G TY M-4.48 (MOD) TRANSITION TO C&G TY M-2.24

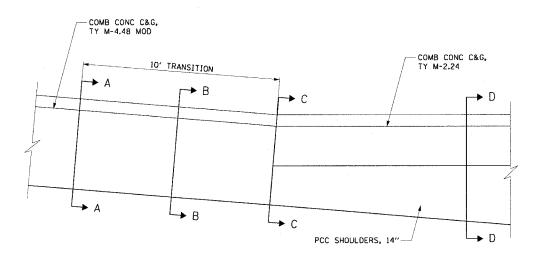
STA 3453+28.74

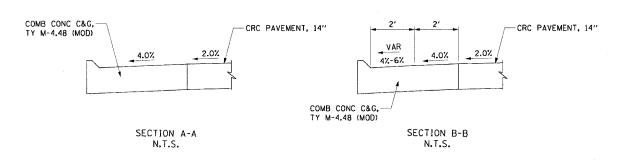
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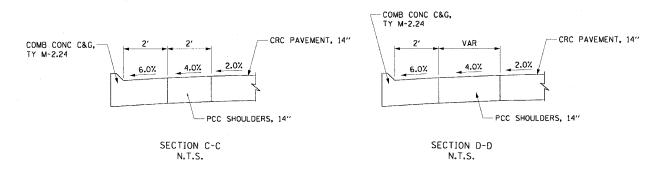


COUNTY TOTAL SHEET NO.

SECTION

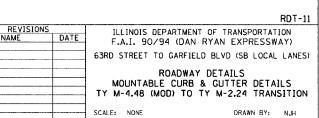






NOTES:

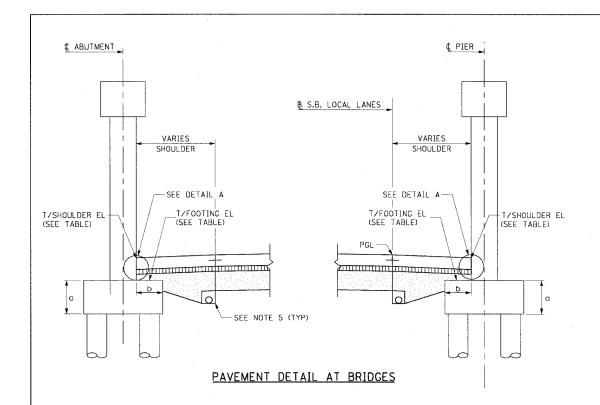
- 1. THE TRANSITION SECTION SHALL BE PAID FOR AS COMB CONC C&G, TY M-4.48 (MOD)
- SEE RDT-11 FOR COMB CONC C&G, TY M-4.48 (MOD) DETAILS.



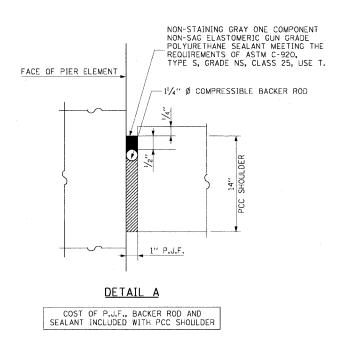
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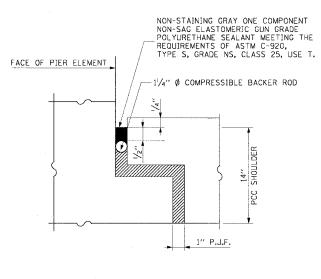
DATE: June 9, 2006

CHECKED BY: RMG



LOCATION	PIER	T/FOOTING EL	FOOTING THICKNESS "a" (FT)	TOE WIDTH "b" (FT)	T/SHOULDER EL	
LOCATION					MAX	MIN
CONRAIL R.R.	6	0.10	4.50	4,75	2.82	2.47
	5	0.10	4.50	4.75	2.45	2.09
59TH ST	W. ABUT.	-4,00	2.00	3.50	-1.30	-2.09
	1	-4.00	2.00	1.75	-0.90	-2.91
57TH ST	W. ABUT.	-6.00	2.50	6.13	-1.54	-2.37
	1	-6.00	1,50	2,25	-0.74	-2.75
55TH ST (SOUTH BRIDGE)	W. ABUT.	-2.92	2.00	3.50	-1.91	-2.11
	1	-3,00	2.00	2.50	-1.69	-2.36
55TH ST (NORTH BRIDGE)	W. ABUT.	-3.17	2.00	3.50	-0.73	-1.45
	1	-3.00	2.00	2.50	-0.53	-1.70





<u>DETAIL B</u> COST OF P.J.F., BACKER ROD AND SEALANT INCLUDED WITH PCC SHOULDER LEGEND:

STABILIZED SUB-BASE 6"

SUB-BASE GRANULAR MATERIAL, TY B 24"

- 1. SEE TYPICAL SECTIONS FOR COMPOSITION OF EXISTING AND PROPOSED PAVEMENT.
- 2. ALL VIEWS LOOKING NORTH.
- 3. CONTRACTOR SHALL USE CAUTION DURING PAVEMENT REMOVAL AND EXCAVATION OPERATIONS AROUND EXISTING OVERHEAD BRIDGE FOUNDATION.
- 4. PROVIDE 10 MIL POLYETHYLENE BOND BRAKER AND POUR SHOULDER PAVEMENT DIRECTLY ON PIER FOOTING.
- 5. SEE DRAINAGE AND UTILITY SHEETS FOR LOCATION OF PIPE UNDERDRAINS 6".
- 6. SEE DETAIL B WHEN PCC SHOULDER IS LOCATED WITHIN
- 7. THE ADDITIONAL DEPTH OF AGGREGATE SUBGRADE UNDER THE SHOULDER SHALL BE INCLUDED IN THE COST OF SUB-BASE GRANULAR MATERIAL, TY B, 24".

RDT-12

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

ROADWAY DETAILS PAVEMENT DETAILS AT CROSS STREET BRIDGES

SECTION

STA.

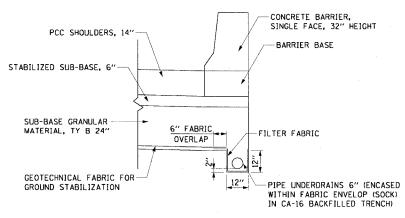
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TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT 60A63 • (1919.15, 2021-922 PT1 & PT2) R-2

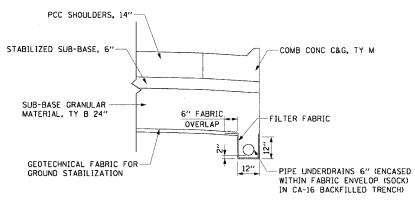
247 172

SCALE: NONE DATE: June 9, 2006

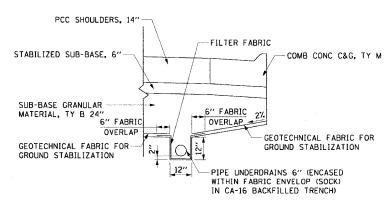
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PIPE UNDERDRAINS 6" LOCATED UNDER SINGLE FACE BARRIER WALL



PIPE UNDERDRAINS 6"
LOCATED UNDER COMB CONC C&G



PIPE UNDERDRAINS 6"
NOT LOCATED AT BACK OF CURB OR BARRIER WALL

F.A.I. RTE,	SE	SECTION		COUNTY		TOTAL SHEETS	SHEET NO.
90/94		*		COOK		247	173
STA. TO STA.							
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
60A	63	* (1	919.19	, 2021-922	2 PT	1 & PT	2) R-2

NOTES:

- GEOTECHNICAL FABRIC FOR GROUND STABILIZATION SHALL BE PLACED SUCH THAT IT EXTENDS TO THE EDGE OF THE TRENCH AND OVERLAPS THE FILTER FABRIC BY A MINIMUM OF 6". AT NO TIME SHALL THE GEOTECHNICAL FABRIC FOR GROUND STABILIZATION BE OVER OR COVER THE UNDERDRAIN TRENCH.
- 2. NO CONSTRUCTION TRAFFIC SHALL BE ALLOWED ON THE TRENCH UNTIL A MINIMUM OF 12" OF COMPACTED SUB-BASE IS PROVIDED.
- 3. THE PIPE UNDERDRAIN TRENCH SHALL BE LINED WITH FILTER FABRIC ON THE BOTTOM AND SIDES OF THE TRENCH. THE TOP OF THE TRENCH MUST NOT BE COVERED WITH ANY FABRIC.
- 4. FILTER FABRIC, FABRIC ENVELOPE, AND CA-16 AGGREGATE ARE INCLUDED IN THE UNIT COST OF PIPE UNDERDRAIN, 6".
- 5. CONTRACTOR SHALL FLUSH PIPE UNDERDRAIN WITH WATER TO INSURE UNDERDRAIN IS FUNCTIONING PROPERLY PRIOR TO THE PLACEMENT OF STABILIZED SUB-BASE. PRIOR TO COMMENCING THIS WORK, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH HIS APPROACH AND METHODS FOR COMPLETING THIS WORK, FOR THE ENGINEER'S REVIEW AND APPROVAL. THE COST OF FLUSHING THE PIPE IS INCLUDED IN THE UNIT COST OF PIPE UNDERDRAIN, 6".

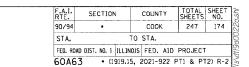
DDT-1

ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 63RD STREET TO GARFIELD BLVD (SB LOCAL LANES) DRAINAGE DETAILS PIPE UNDERDRAINS 6"

> SCALE: NONE DATE: June 9, 2006

DRAWN BY: RMG CHECKED BY: XXX

AECOM



EXISTING DRAINAGE STRUCTURE -EXISTING STORM SEWER-

EXISTING CRC PAVEMENT

NOTES

-EXISTING PCC SHOULDERS

TEMPORARY SOIL RETENTION SYSTEM

- PROPOSED DRAINAGE STRUCTURE

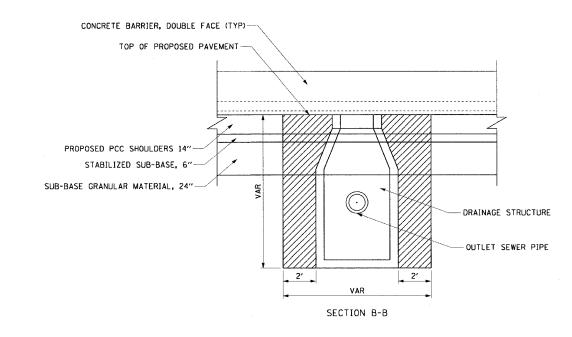
1. STORM SEWER PENETRATIONS THROUGH THE TEMPORARY SOIL RETENTION SYSTEM WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST FOR THE TEMPORARY SOIL RETENTION SYSTEM.

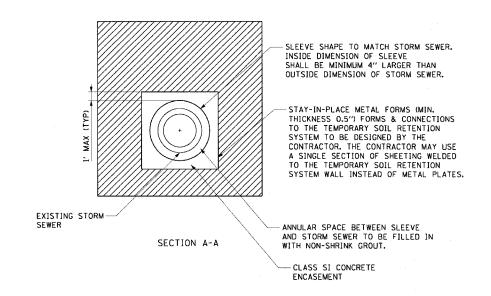
LEGEND

TEMPORARY SOIL RETENTION SYSTEM

PLAN VIEW

VAR



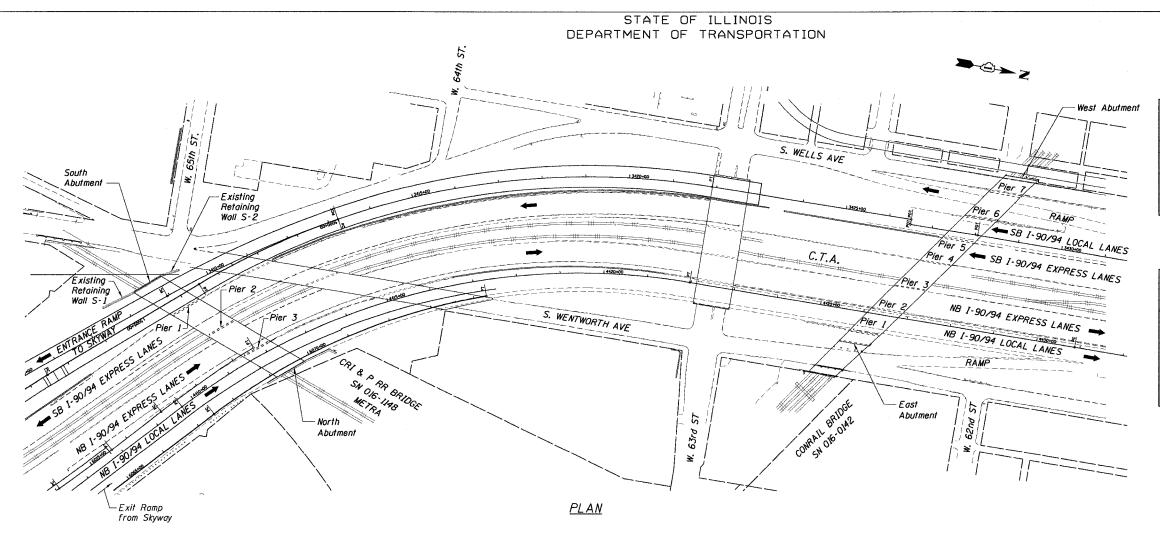


DDT-2 ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 63RD STREET TO GARFIELD BLVD (SB LOCAL LANES) DRAINAGE DETAILS TEMPORARY SOIL RETENTION SYSTEM SCALE: NONE DRAWN BY: RMG

DATE: June 9, 2006

CHECKED BY: XXX

AECOM



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
90/94	•	соок	247	175				
STA.	STA. TO STA.							
FED. ROAG	DIST. NO. 1 ILLIN	OIS FED. AID	PROJEC1	ſ				
60A63	• (1919.1	5, 2021-922	PT1 & P1	T2) R-2				

TOTAL BILL OF MATERIAL Structure No. 016-1148

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq Ft	903
Epoxy Crack Sealing	LF	140
Protective Coat	Sq Yd	101

TOTAL BILL OF MATERIAL Structure No. 016-0142

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq Ft	715
Structural Repair of Concrete (Special)	Sq Ft	1,196
Epoxy Crack Sealing	LF	213
Protective Coat	Sq Yd	213



GENERAL NOTES:

- 1. Pier Repair Locations and Quantities are estimated. The necessary adjustments based on current field conditions will be made at time of construction. However, such variations shall not be cause for additional compensation for a change in the Scope of Work: however, the Contractor will be paid for the quantity actually furnished at the Unit Price bid for the Work.
- 2. The Contractor shall expose the top of footing at all pier and abutment repair locations. The cost shall be included in the cost of Structural Repair of Concrete.
- 3. Delaminated and spalled areas of concrete shall be repaired by utilizing Structural Repair of Concrete and described in the Specifications as Structural Repair of Concrete.
- 4. Cracks shall be repaired by utilizing the Epoxy Crack Sealing and described in Section 590 of the Standard Specifications as Epoxy Crack Sealing.

- 5. The approximate location of the downspout is shown in the Elevation. If repairs are to be made near the attachments of the downspout, the downspout shall be detached before making the repairs. The Contractor shall reattach the downspout. The cost of the detachment and reattachment of the downspouts to the Piers shall be included in the cost of Structural Repair of Concrete and Structural Repair of Concrete
- 6. Existing rustication shall be maintained and re-established in new repair areas and shall be included in the cost of Structural Repair of Concrete and Structural Repair of Concrete (Special).
- 7. The Contractor shall provide Railroad Protective Liability Insurance in accordance with Articles 107.11 and 107.12 of the Standard Specifications for all Railroad Highway Crossings and the Chicago Transit Authority (CTA). The CTA has additional requirements as shown in the "CTA Coordination" provision as shown in the Contract Special Provisions.

INDEX OF SHEETS

General Plan

BR2 Pier 1 - Plan and Elevation (SN 016-1148)

BR3 South Abutment - Plan and Elevation (SN 016-1148) BR4 Pier 5 (West Face) - Plan and Elevation (SN 016-0142)

BR5 Pier 6 - Plan and Elevation (SN 016-0142) BR6 Pier 7 and West Abutment - Plan and Elevation

(SN 016-0142)

DESIGN SPECIFICATIONS

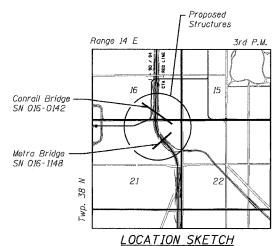
2002 AASHTO, Standard Specifications for Highway Bridges

DESIGN STRESSES

f'c = 3,500 psi fy = 60,000 psi (Reinf.)

SUBSTRUCTURE REPAIR WORK ITEMS

- 1) Metra Railroad Bridge (SN 016-1148) a) Pier 1 Repairs (South Face) b) South Abutment Repairs (North Face)
- 2) Conrall Railroad Bridge (SN 016-0142) a) Pier 5 Repairs (West Face) b) Pier 6 Repairs (East and West Face) c) Pier 7 Repairs (East and West Face)



Sheet BR1 of 6

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F.A.I. 9	DATE	NAME
1.4.1.		
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SUBSTRI		
METI		
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SCALE: None		

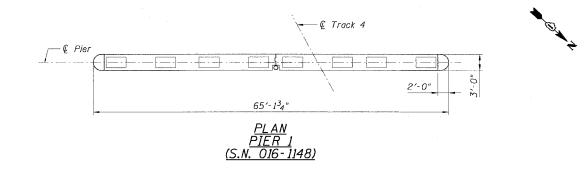
ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) RD STREET TO GARFIELD BLVD (SB LOCAL LANES) GENERAL PLAN

SUBSTRUCTURE AND ABUTMENT REPAIRS METRA BRIDGE (SN 016-1148) AND CONRAIL BRIDGE (SN 016-0142) COOK COUNTY DRAWN BY: CHD

DATE: June 9, 2006

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





Clean and incorporate existing
Reinforcement Bars. Reinforcement
Bars that have been cut or have
lost 25% or more of their original
cross sectional area shall be
supplemented by new Epoxy
Coated Reinforcement Bars.

Existing
Concrete Pier

Depth of concrete removal
for depth greater than 8", and for
all overhead repair areas, provide

Apply a protective coat to the exposed surface of all Structural Repair of Concrete in accordance with Article 503.19 of the Standard Specifications

Formwork shall be completely mortar tight and closely fitted where it adjoins the existing concrete surface to prevent leakage

Existing
Concrete Pier

Pipe Nipples, Zerk or
Alemite Fittings, or
Polyethylene One-Way
Valves spaced at
1 to 3 ft., as required,
depending on width
of crack

STRUCTURAL REPAIR OF CONCRETE DETAIL

Deteriorated

Concrete Area

³₄"¢ Expansion Hook Bolts

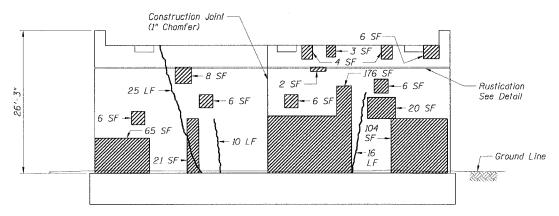
spaced 15" Max. cts., both

vertically and horizontally

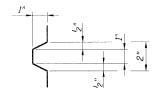
EPOXY CRACK SEALING DETAIL

Epoxy -Sealing

Compound



<u>ELEVATION</u> <u>PIER 1 - SOUTH FACE</u> (S.N. 016-1148)



<u>DETAIL OF</u> RUSTICATION

LEGEND

Area of Structural Repair of Concrete (Depth Equal to or Less than 5")

Epoxy Crack Sealing

Sheet BR2 of 6

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ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.1. 90/94 (DAN RYAN EXPRESSWAY)
63RD STREET TO GARFIELD BLVD (SB LOCAL LANES)
PIER I - PLAN AND ELEVATION
SUBSTRUCTURE AND ABUTMENT REPAIRS
METRA BRIDGE (SN 016-1148) AND
COOK COUNTY
SCALE: NODE DRAWN BY: CHD

SCALE: None

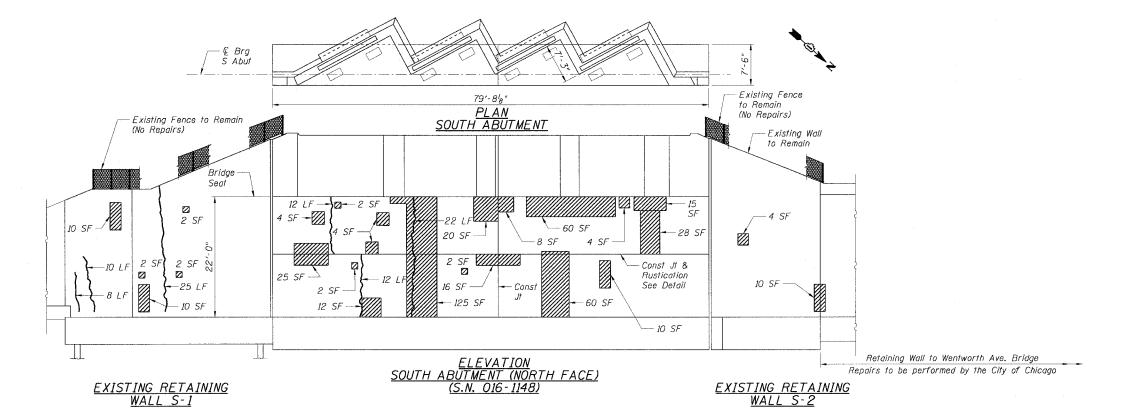
DATE: June 9, 2006

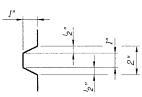
CHECKED BY: MJP

CTE	AECOM

BILL OF MATERIAL						
Item	Unit	Quantity Pier 1 South Face				
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq Ft	462				
Epoxy Crack Sealing Protective Coat	LF Sq Yd	51 51				

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





<u>DETAIL OF</u> <u>RUSTICATION</u>

<u>LEGEND</u>

Area of Structural Repair of Concrete (Depth Equal to or Less than 5")

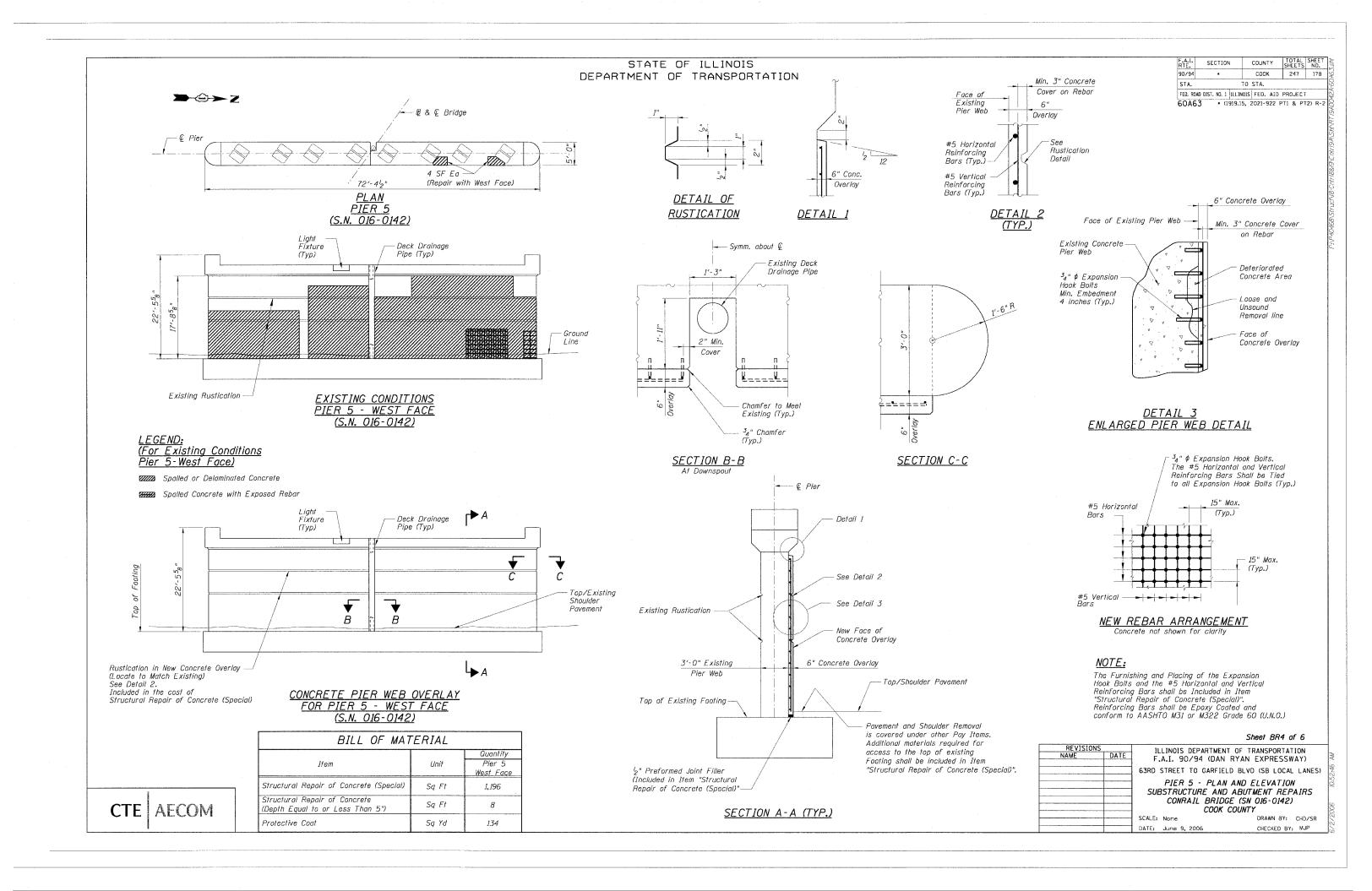
Epoxy Crack Sealing

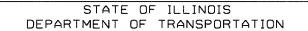
Sheet BR3 of 6

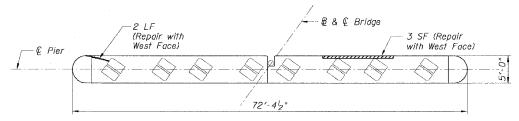
BILL OF MATERIAL								
Quantity								
Item	Unit	South Abutment	Retaining Wall S-1	Retaining Wall S-2				
Structural Repair of Concrete								
(Depth Equal to or Less Than 5")	Sq Ft	401	26	14				
Epoxy Crack Sealing	LF	46	43	0				
Protective Coat	Sa Vd	45	T 3	1 2				

			Shoot Bits of
REVISIONS		ILLINOIS DEPARTMENT O	OF TRANSPORTATION
NAME	DATE	F.A.I. 90/94 (DAN R)	
		63RD STREET TO GARFIELD	BLVD (SB LOCAL LANES
		SOUTH ABUTMENT - PLA SUBSTRUCTURE AND AE	
		METRA BRIDGE (SN	016-1148) AND
		COOK COU	INTY
		SCALE: None	DRAWN BY: CHD
•		DATE: June 9, 2006	CHECKED BY: MJP

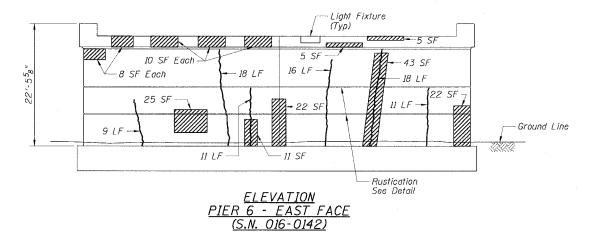
CTE | AECOM

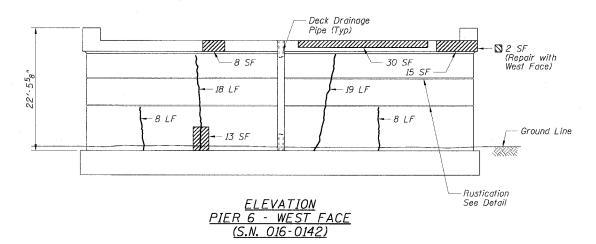






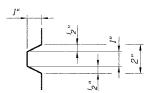
<u>PLAN</u> <u>PIER 6</u> (S.N. 016-0142)





BILL OF MATERIAL							
Quantity							
Item	Unit	Pier 6					
		East Face	West Face				
Structural Repair of Concrete							
(Depth Equal to or Less Than 5")	Sq Ft	179	71				
Epoxy Crack Sealing	LF	83	55				
Protective Coat	Sq Yd	20	8				

| F.A.I. | SECTION | COUNTY | TOTAL | SHEET | SOLUTION | STAL | FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID | PROJECT | SOLUTION |



<u>DETAIL OF</u> <u>RUSTICATION</u>

<u>LEGEND</u>

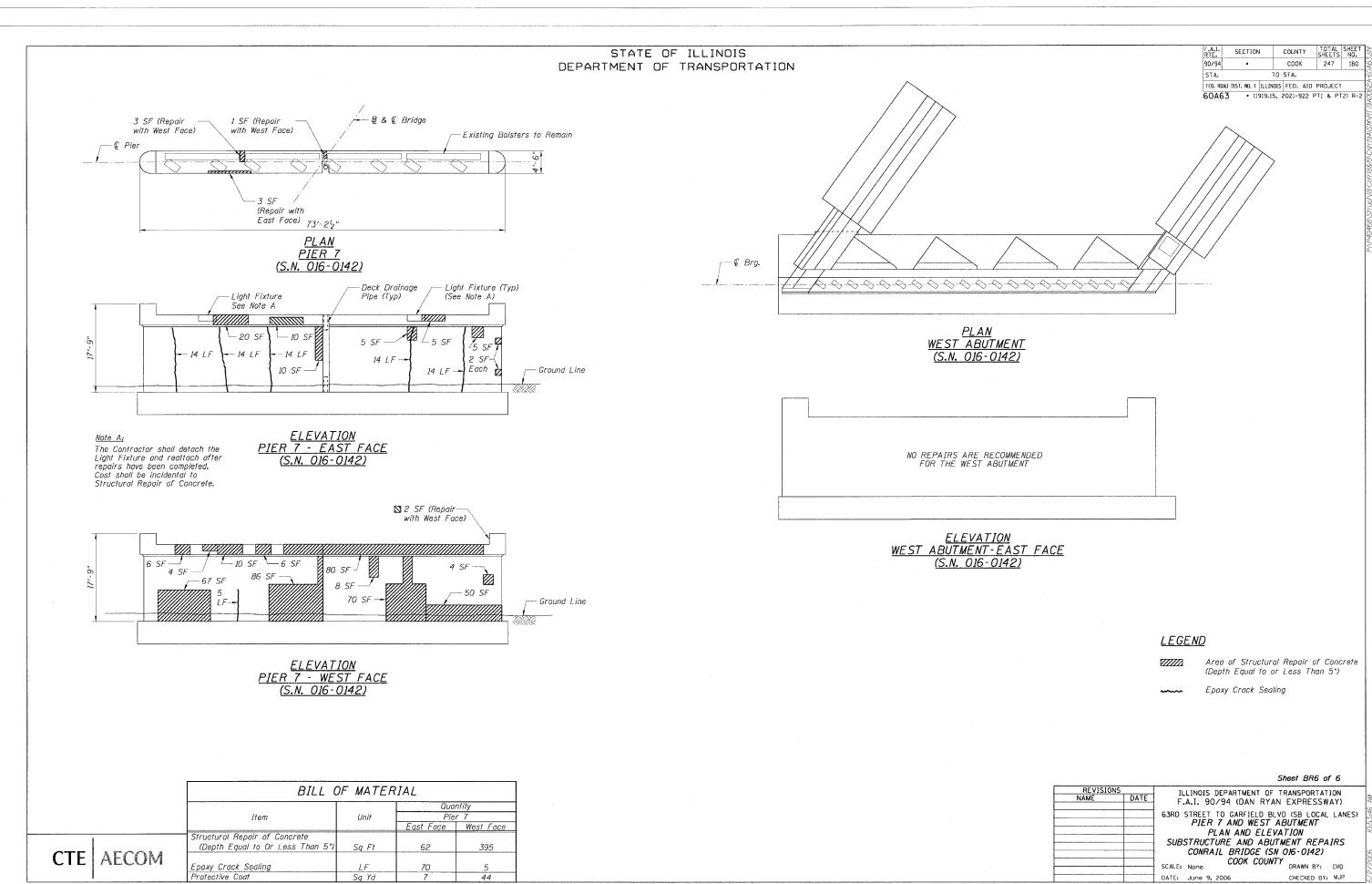
Area of Structural Repair of Concrete (Depth Equal to or Less Than 5")

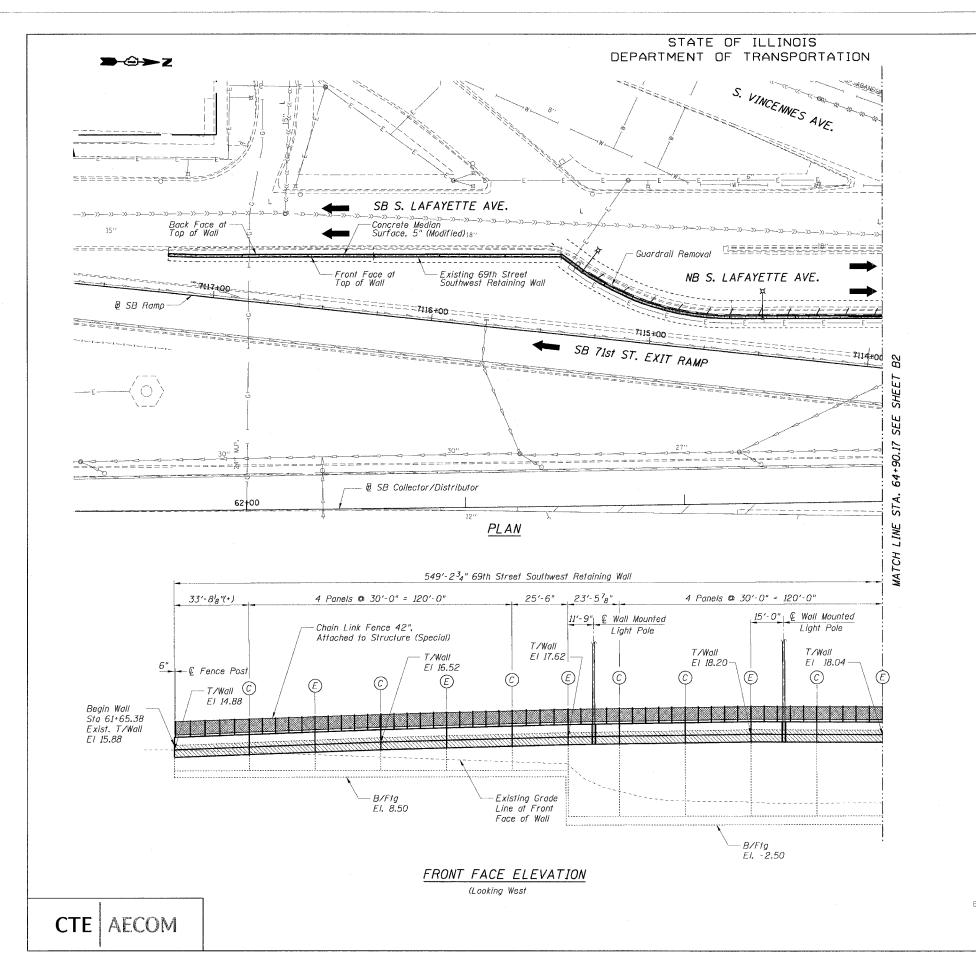
Epoxy Crack Sealing

Sheet BR5 of 6

REVISIONS NAME D	ATE				MENT OF DAN RYA			AY)
		63RD	STREET	TO GAR	RFIELD BI	LVD (S	B LOCAL	LANES)
			STRUCT	URE A	AN AND ND ABU IDGE (S	TMEN N 016	T REPA	
				COC	OK COUN	TY		
		SCALE:	None			DR	AWN BY:	CHD
		NATE:	h 0	2000		011	TOKED DV	

CTE AECOM





GENERAL NOTES:

- 1. Station and offsets are measured from ₿ SB Collector/Distributor to the front face of the retaining wall.

 2. All construction joints shall be bonded.
- 3. All exposed concrete edges shall have a ³₄" by 45° chamfer except where shown otherwise. Chamfer on vertical edges shall be continued a minimum of 1 foot below the finished ground line.
- 4. A protective coat shall be applied according to Section 503.19 of the Standard Specifications to all concrete surfaces not in contact with soil.

 5. Reinforcement bars shall conform to
- the requirements of AASHTO M31 or M322, Grade 60.
- 6. Reinforcement bars designated "(E)" shall be epoxy coated.
- 7. Removal and disposal of existing fence is included in the cost of Concrete Removal.
- 8. Plan dimensions and details relating to existing structures have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and to make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation or a change in the scope of work. However, the Contractor will be paid for the quantity actually
- furnished at the unit price for the work. 9. For Concrete Median Surface, 5" (Modified), see sheet B7.

ABBREVIATIONS:

B	Bottom
-	
BF	Back Fac
EF	Each Fac
ΕW	Each Way
FF	Front Fac
Ftq	Footing
LŤ	Left
Sta	Station
T	Ton

LEGEND:

/////////////////////////////////////	Concrete	Removai
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(C) - Construction Joint

- Expansion Joint

Wall Mounted Light Pole

- Chain Link Fence



EXPIRATION DATE: 11-30-2006

F.A.I. RTE.	SECTION	ı	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	•		COOK	247	181
STA.		TO	STA.		
FED. RO	DAD DIST. NO. 1	ILLINOIS	FED. AID	PROJECT	
COA/	7 . /1/	210 15	2001 000 /	771 0 DT	133 D 3

STRUCTURAL BILL OF	MATE	RIAL
ITEM	UNIT	QUANTITY
Concrete Removal	Cu Yd	61
Concrete Superstructure	Cu. Yd.	116.5
Protective Coat	Sq. Yd.	528
Reinforcement Bars, Epoxy Coated	Pound	14,161
Rustication Finish	Sq. Ft.	1,005
Chain Link Fence 42",		
Attached to Structure (Special)	Foot	549
Structure Excavation	Cu. Yd.	71
Porous Granular Embankment	Cu. Yd.	55

INDEX OF SHEETS

General Plan I

General Plan II

Detailed Elevation I B3 B4

Detailed Elevation II

Wall Sections & Details Standard Details

Chain Link Fence

DESIGN SPECIFICATIONS

2002 AASHTO, Standard Specifications for Highway Bridges

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi fy = 60,000 psi (Reinf.)

NOTE:

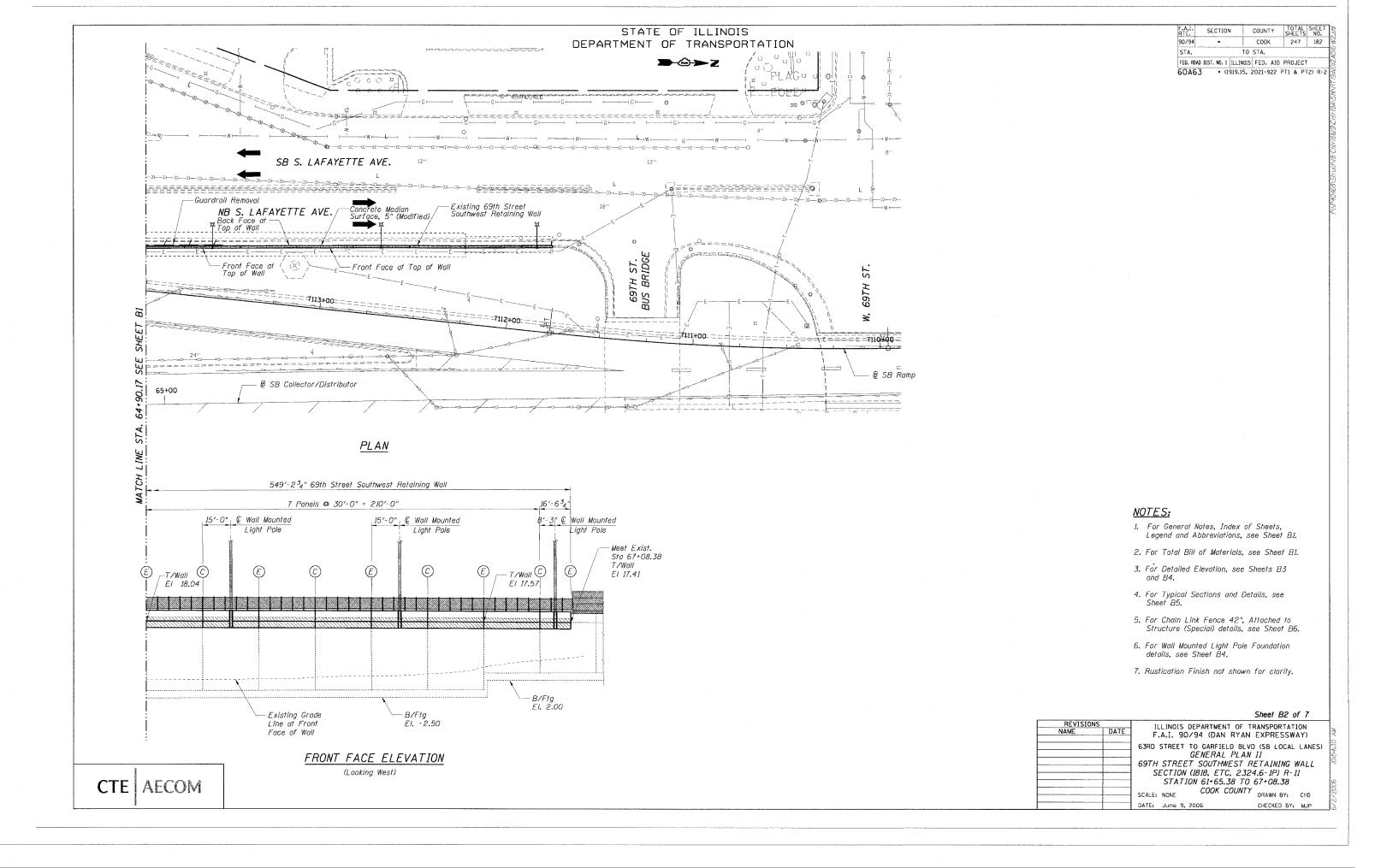
Rustication Finish not shown for clarity.

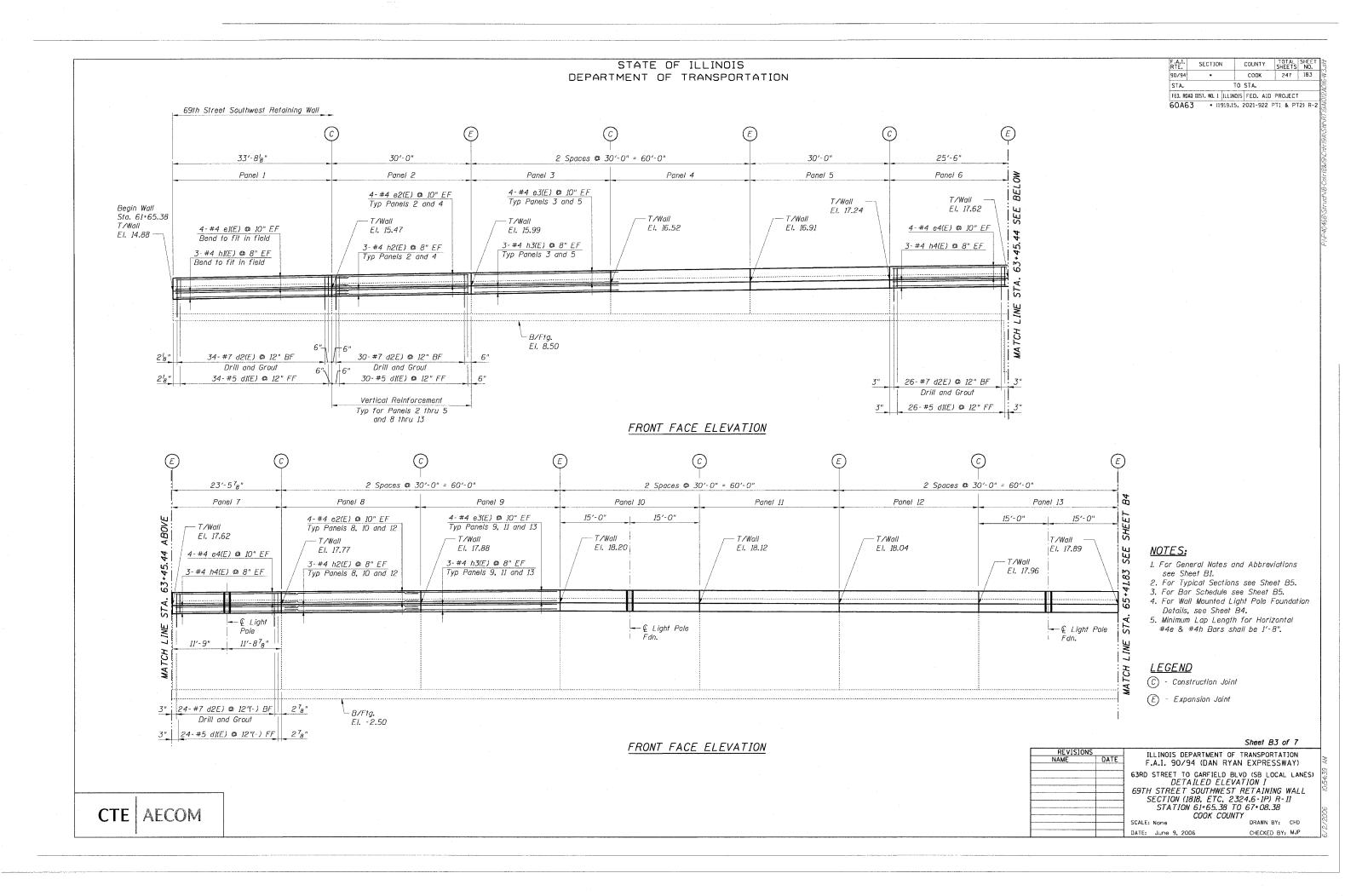


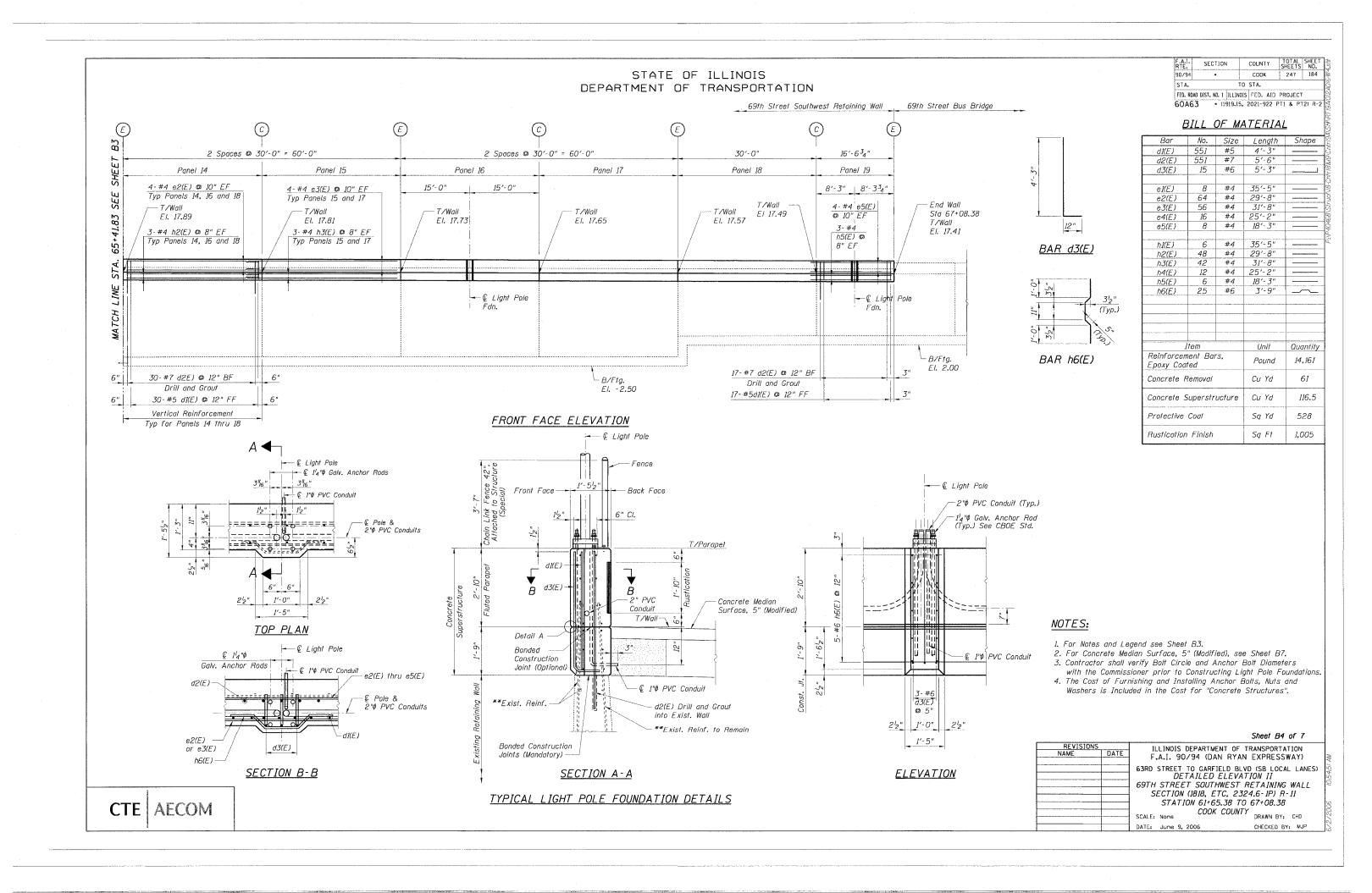
LOCATION SKETCH

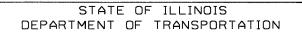
Sheet Bl of 7

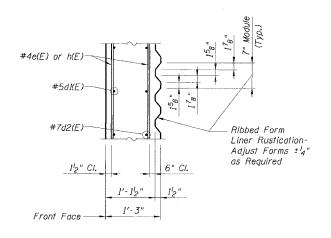
		Sheel DI of 1
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
		63RD STREET TO GARFIELD BLVD (SB LOCAL LANES)
		GENERAL PLAN I
		69TH STREET SOUTHWEST RETAINING WALL
		SECTION (1818, ETC, 2324.6-1P) R-11
		STATION 61+65.38 TO 67+08.38
		COOK COUNTY
		SCALE: NONE DRAWN BY: CHD
		BATE INTO COOK CHECKER DV MID



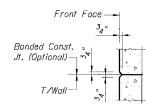




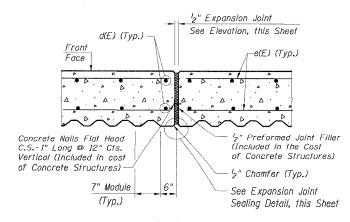




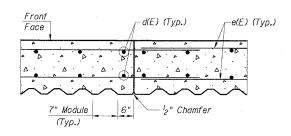
<u>SECTION J-J</u>



DETAIL A



EXPANSION JOINT DETAIL



CONSTRUCTION JOINT DETAIL

34" (Typ) 2" Sealing Compound (Typ) 12" PJF (Typ) Front Face 6" Non-metallic Water Seal

EXPANSION JOINT ELEVATION

<u>LEGEND:</u>

Structure Excavation

Porous Granular Embankment

Concrete Removal

Sheet B5 of 7

REVISIONS		ILLINOIS DEPARTMENT	OF TRANSPORTATION
NAME	DATE	F.A.I. 90/94 (DAN R	
		63RD STREET TO GARFIELD WALL SECTIONS	
		69TH STREET SOUTHWES	ST RETAINING WALL
		SECTION (1818, ETC.	2324.6-1P) R-11
		STATION 61+65.38	TO 67+08.38
***************************************		SCALE: None COOK COL	UNTY DRAWN BY: CHD
······································		DATE: June 9, 2006	CHECKED BY: MJP

EXPANSION JOINT SEALING DETAIL

TYPICAL TOP OF WALL SECTION

* Drill & Grout d2(E) & d4(E) Bars in 1½" Dia. drilled holes with a minimum depth of 1'-3", according to Article 584 of the Standard Specifications. (Cost included with Reinforcement

** Existing reinforcing steel which is exposed by the concrete

removal process, but which is to remain partially embedded

in the existing structure, shall be cleaned to be free of existing

concrete and rust, straightened if necessary, and recast into the new concrete. (Cost included with Concrete Removal).

Fence

Face

T/Wall-

2'-0" Limits

of Struct. Exc.

#4h1(E) thru

#4h4(E) EF

Concrete Median
Surface, 5" (Modified)

*d2(E) Drill And Grout

into Exist. Wall

** Exist. Reinf. to Remain

3₄"/Ft. Batter

Exist. Back Face

Two component nonstaining

gray sealing compound with

polysulfide liquid polymer

gun-grade with primer.

-½" Preformed Joint Filler T/Roadway

Front — Face d1(E)

2" PVC Conduit

Remove Exposed-

Existing #4 Or #5

Horiz. As Required

Ronded -

Construction

Joint (Optional)

Exist. Reinf. to

Bonded Construction

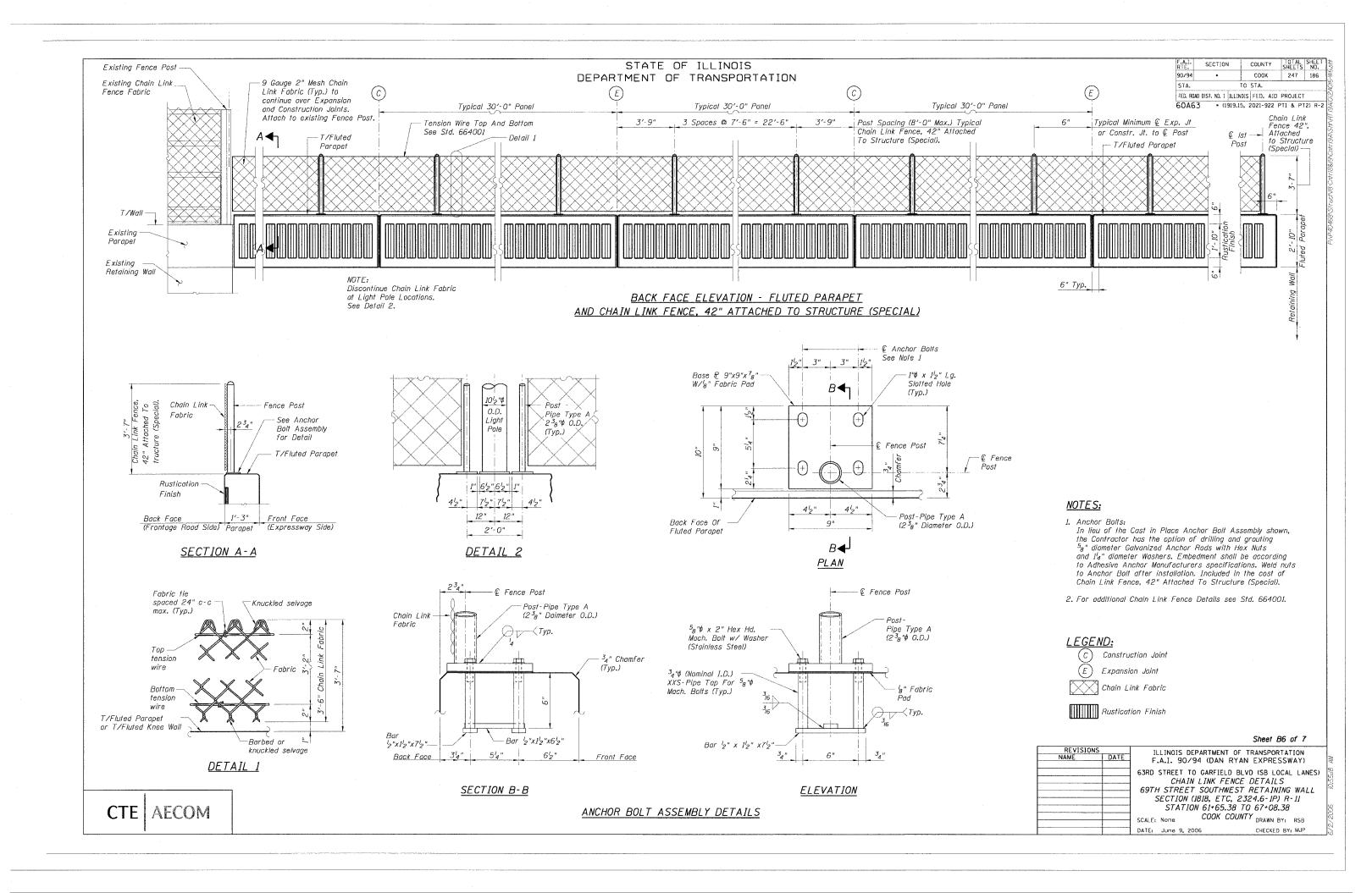
Joints (Mandatory) -

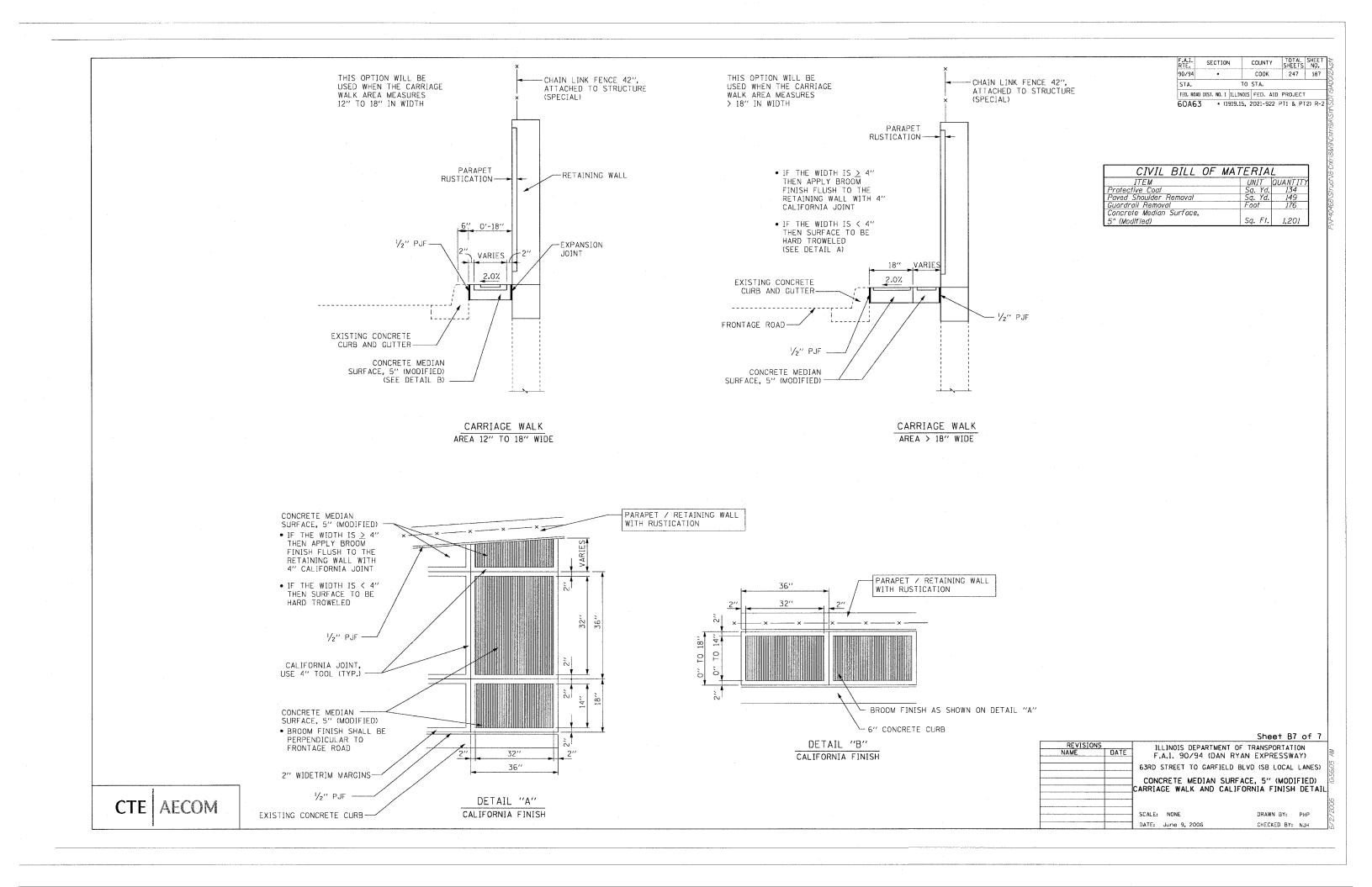
Bars, Epoxy Coated)

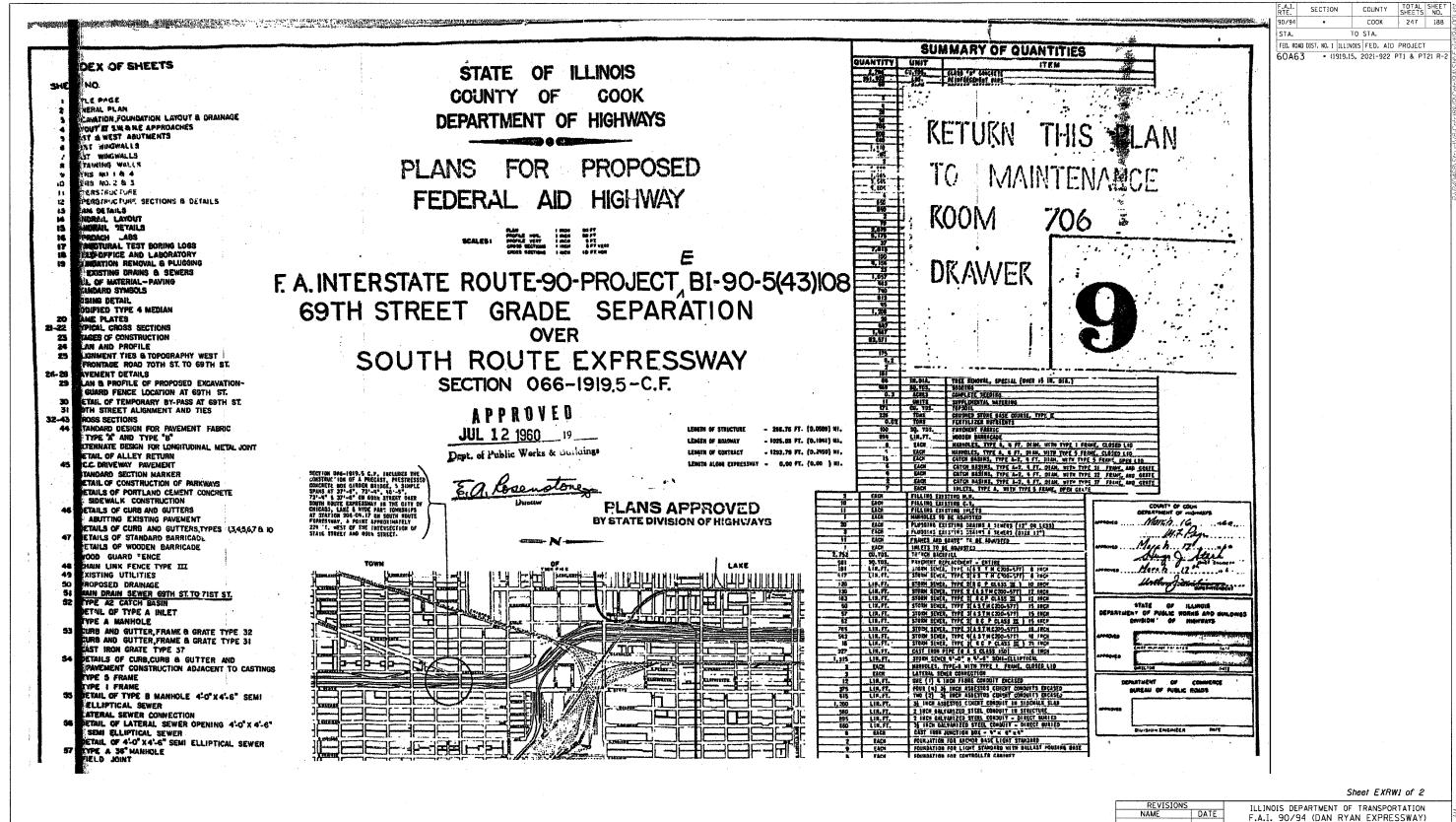
Remain (Typ.) -

Detail A-

CTE AECOM

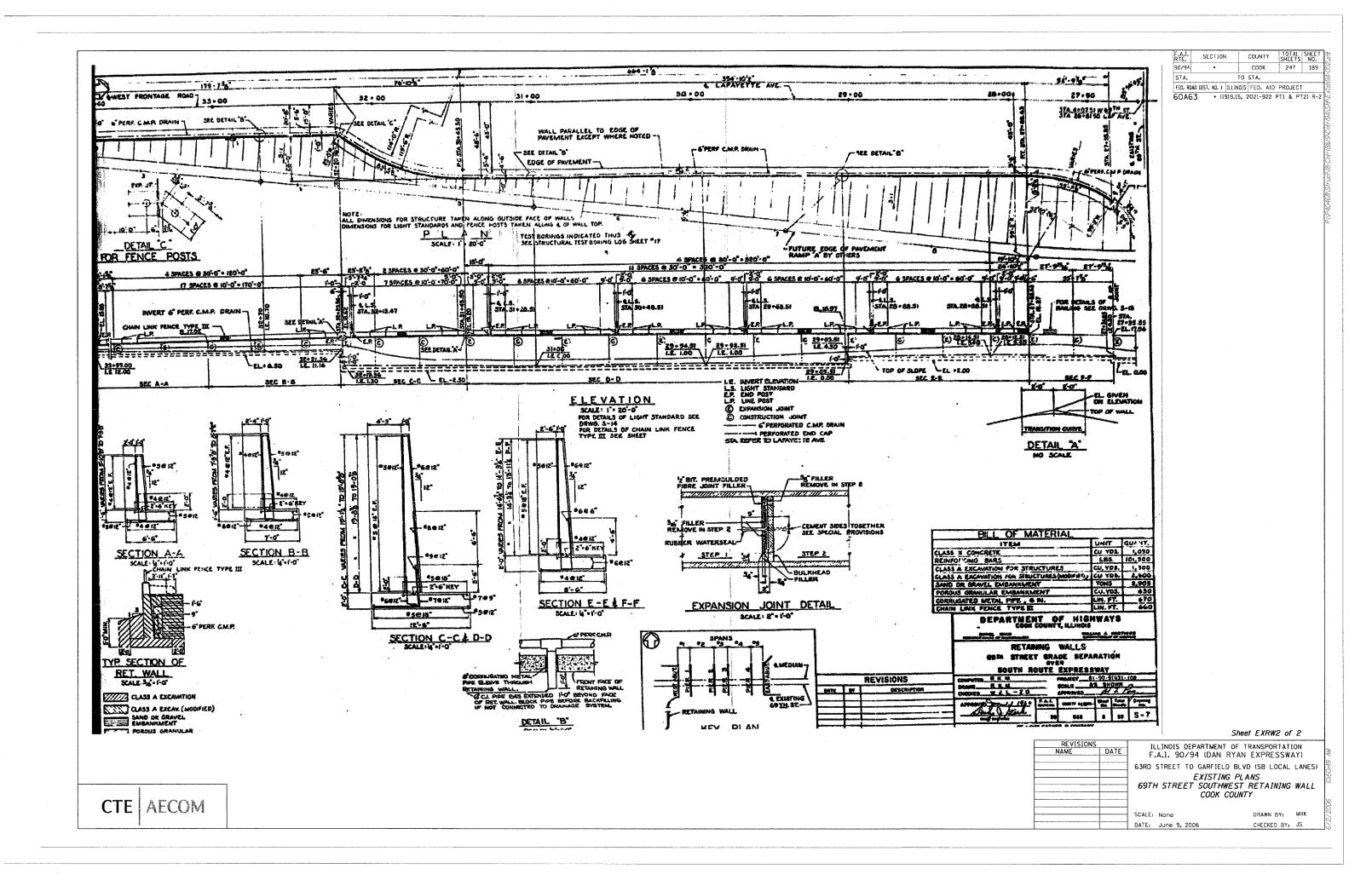


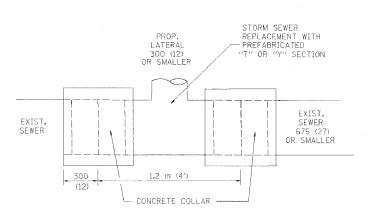




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REVISIONS	ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME DATE	F.A.I. 90/94 (DAN RYAN EXPRESS	
	63RD STREET TO GARFIELD BLVD (SB LOCA	L LANES)
	EXISTING PLANS	L LANES)
	69TH STREET SOUTHWEST RETAINING	2 WALL
		MALL
	COOK COUNTY	
	SCALE: None DRAWN BY:	MRK
	DATE: June 9, 2006 CHECKED B	Y: JS

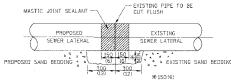
CTE | AECOM

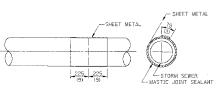


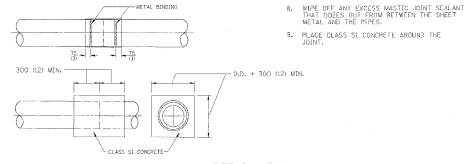


DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER OF 675 (27) OR SMALLER







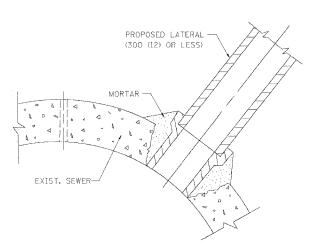
DETAIL "B"

CLASS SI CONCRETE COLLAR

COUNTY TOTAL SHEETS SECTION COOK 247 TO STA. FEO. ROAD DIST. NO. 1 ILLINOIS

60A63

* (1919.15, 2021-922 PT1 & PT2) R-2



DETAIL "C"

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 750 (30) OR LARGER

NOTES

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- I THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- II CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS: A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 675 (27) OR SMALLER SEE
 - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 750 (30) OR LARGER SEE

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EOUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

CONSTRUCTION SEQUENCE

 CUI THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT, BRUSH AND CLEAN ALL PIPES. 2. APPLY THE MASTIC JOINT SEALANT TO THE FIRST 150 (6) OF EACH PIPE.

3. BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 300 \times 150 (12 \times 6) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.

WRAP THE SHEET METAL AROUND THE PIPES, 225 (9) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.

6. LAP THE SHEET METAL AT LEAST 75 (3) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.

7. PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TICHTEN.

4. CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 450 (18) WIDE BY THE CUTSIDE CIRCUMFERANCE OF THE PIPE PLUS 75 (3) LONG.

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REDUITED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER

SCALE: NONE

DRAWN BY CADD CHECKED BY

o:\projects\diststd\bd07.dgn VI+BD7

DATE 10/18/2002

BD500-01 (BD-7) REVISION DATE: 06/12/96

SECTION

90/94

STA.

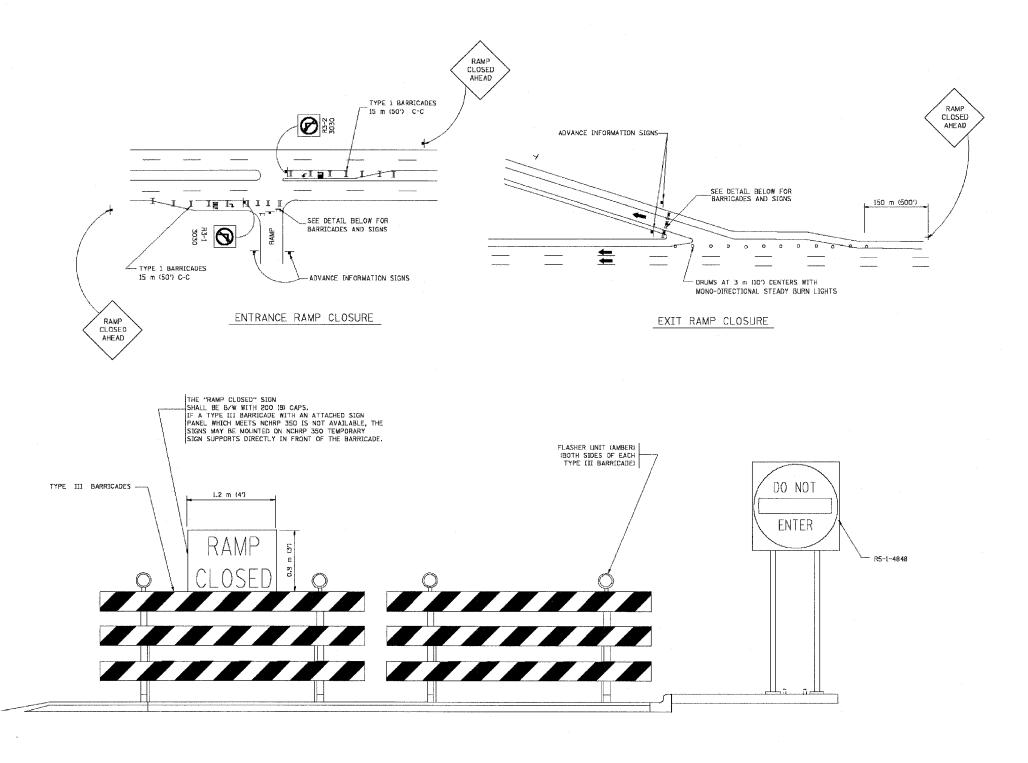
COUNTY TOTAL SHEET NO.

247 191

COOK

* (1919.15, 2021-922 PT1 & PT2) R-2

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



DETAIL FOR REQUIRED BARRICADES & SIGNS

RAMP CLOSURE ADVANCE WARNING SIGN

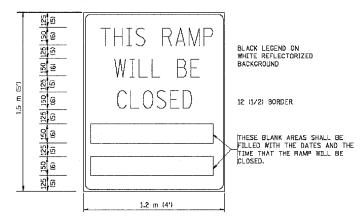
3 m (10)

BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND

25 (1) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE CLOSED EXIT RAMPS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, 4 MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

GENERAL NOTES:

- CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS, CONES SHALL BE A MINIMUM OF 7DO (28) HIGH.
- STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- 3. A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
- 4. FOR DAYTIME RAMP CLOSURES, LASTING 6 HOURS OR LESS, THE CONTRACTOR MAY ELIMINATE THE ADVANCE WARNING SIGNS ON THE EXIT GUIDE SIGNS.
- 5. ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
- 6. THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE CONSIDERED INCIDENTAL TO TRAFFIC CONTROL AND PROTECTION.
- 7. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

FREEWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS

2-83 DWS 1/90 9/94 12/94 12/02 SCALE: NONE DWS Revise devices to 4/03 meet NCHRP 350

DATE 05/06/2003

CHECKED BY

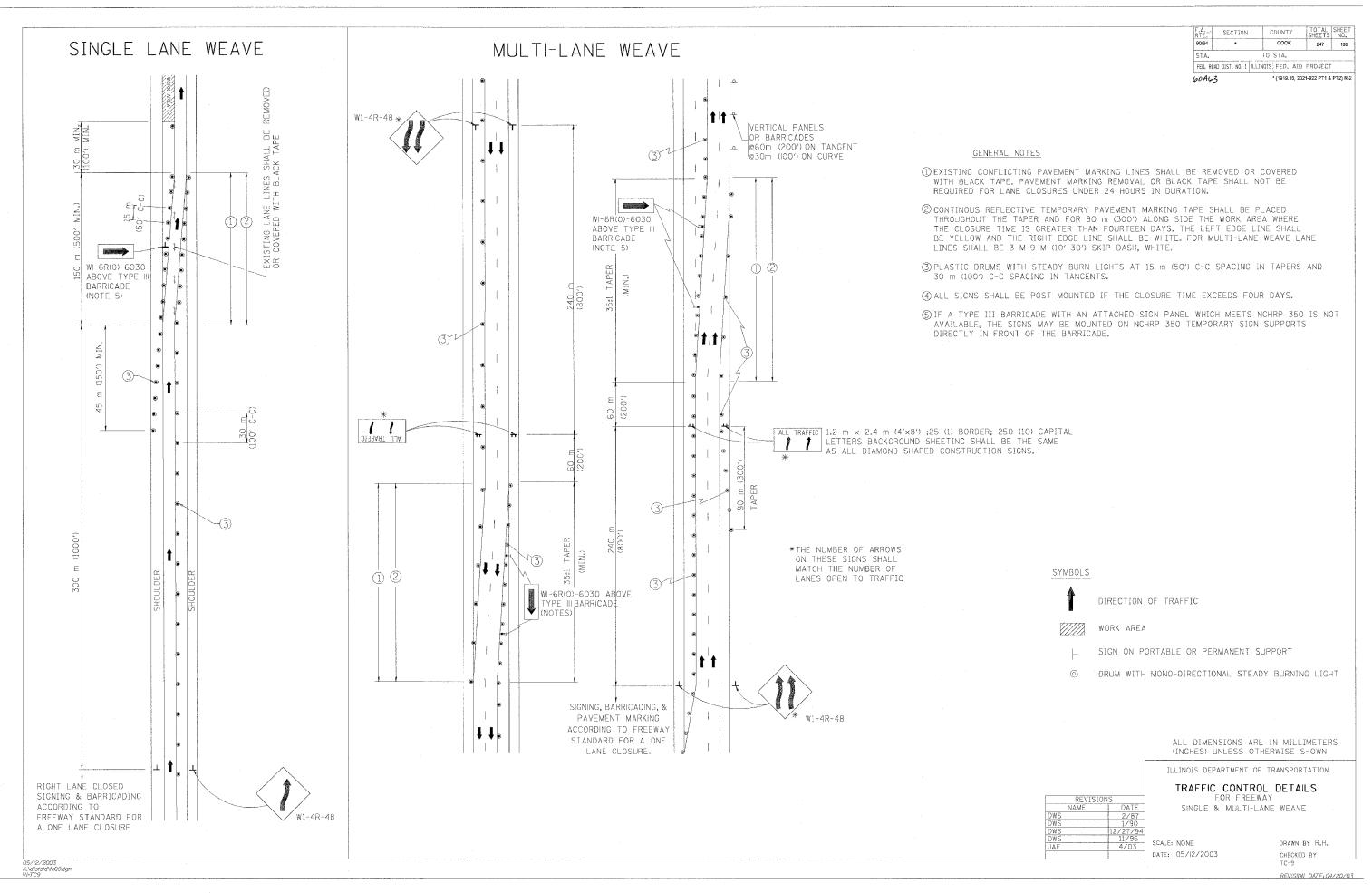
REVISION DATE: 04/03/03

NOTES:

- 1. CONES MAY BE SUBSTITUTED FOR TYPE I AND TYPE II BARRICADES DURING DAY OPERATIONS. COMES SHALL BE A MINIMUM OF 28" IN HEIGHT.
- 2. STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- 3. THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY- FOUR (24) HOURS.

4. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY FOUR (24) HOURS IN LENGTH.

05/06/2003 ci\pro lecte\distatd\tc08.dgn VI-T08



COOK 90/94 FED. ROAD DIST, ND. 1 ILLINOIS FED. AID PROJECT 60A63 TYPE III BARRICADES WITH TWO FLASHING AMBER LIGHTS ON EACH. TYPE I OR TYPE II BARRICADES WITH ONE FLASHING AMBER LIGHT ON EACH, OR TYPE III BARRICADES WITH TWO FLASHING 60 m± (200'±)---AMBER LIGHTS ON EACH. DRIVEWAY 60 m± (200'±) (40 W20-1(0) S ROAD CONSTRUCTION M6-4(0)-2115 M6-1(0)-2115 **€mess**

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 60 km/h (40 MPH) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- O) ONE ROAD CONSTRUCTION AHEAD SIGN 900x900 (36x36) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 60 m (200") IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- .0) ONE ROAD CONSTRUCTION AHEAD SIGN 1.2 m \times 1.2 m (48 \times 48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500') IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4),

- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

SECTION

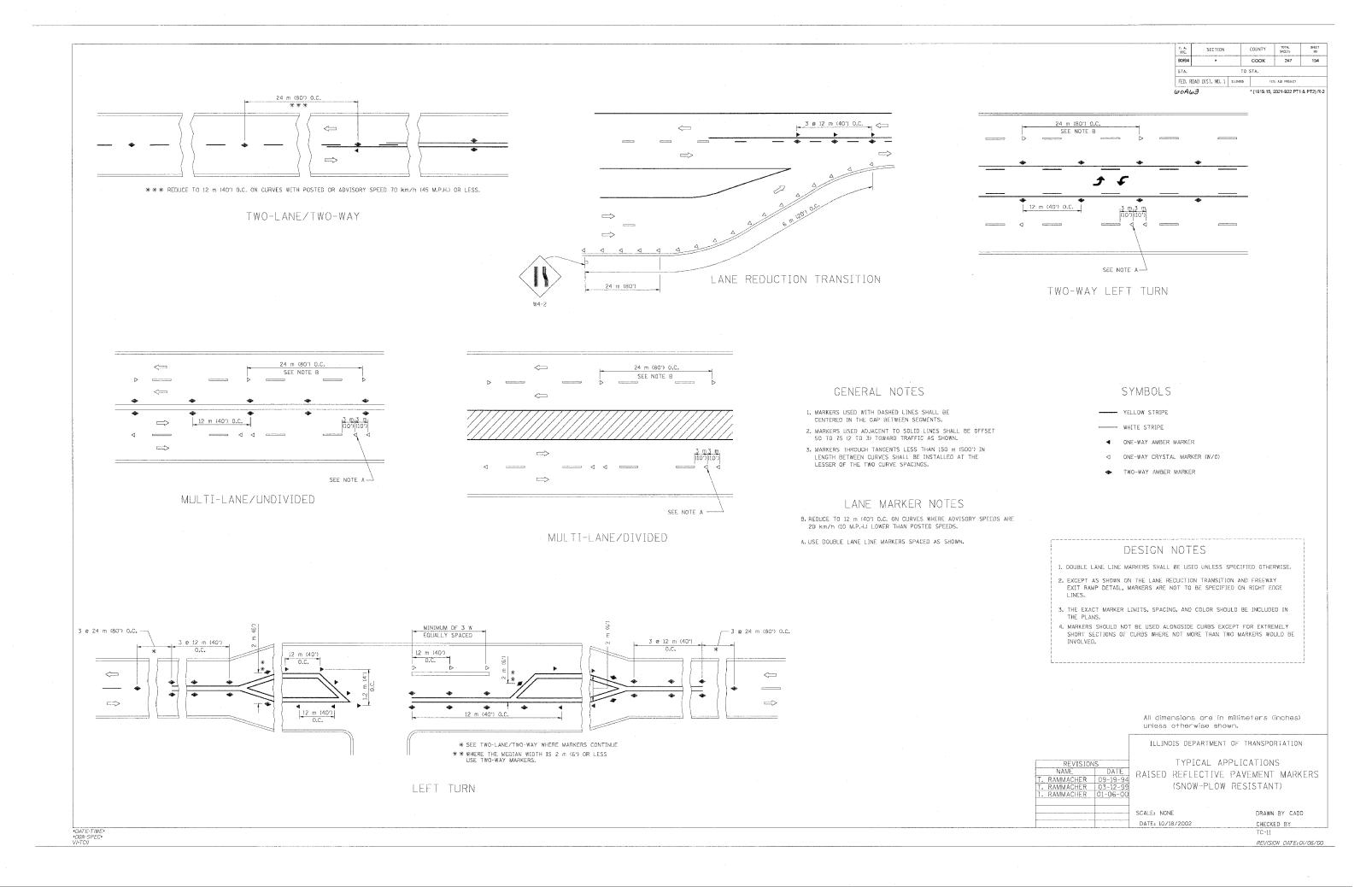
COUNTY

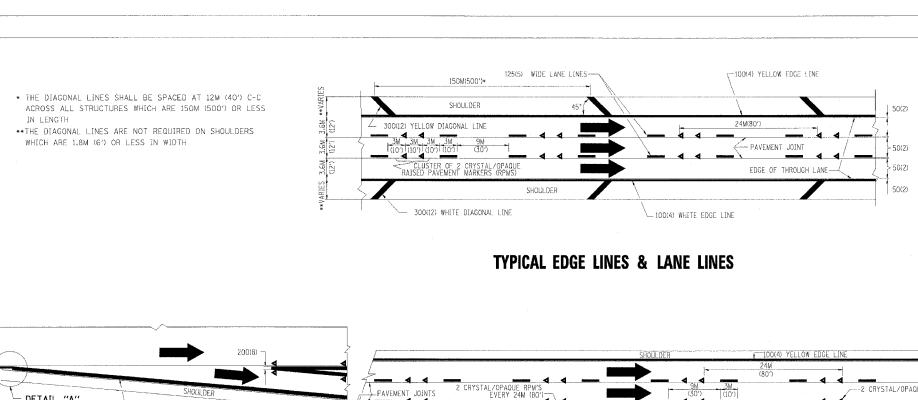
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

REVISIONS		THE TNOTS DEPARTM	ENT OF TRANSPORTATION
NAME	DATE	ILLINOIS DEI MICHA	ENT OF THANSFORTATION
LHA	6/89	TRAFFIC CONTR	ROL AND PROTECTION
, RAMMACHER	09/08/94	INALLIC CONTR	OL AND THOTECTION
J. OBERLE	10/18/95		FOR
A. HOUSEH	03/06/96	CIDE DOADS	NITED CECTION C AND
A. HOUSEH	10/15/96	SIDE RUADS, I	INTERSECTIONS, AND
. RAMMACHER	01/06/00	ne.	RIVEWAYS
		Ur	VIVEWAIS
		SCALE: VÉRT. HORIZ,	DRAWN BY
		DATE 10/18/2002	CHECKED BY

L Friday October 18,2002 @ 10:20:23 AM c:\projects\diststd\tol@.dgm LV=35,63 *!JSFR*

REVISION DATE: 01/06/00







* (1919.15, 2021-922 PT1 & PT2) R-2

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



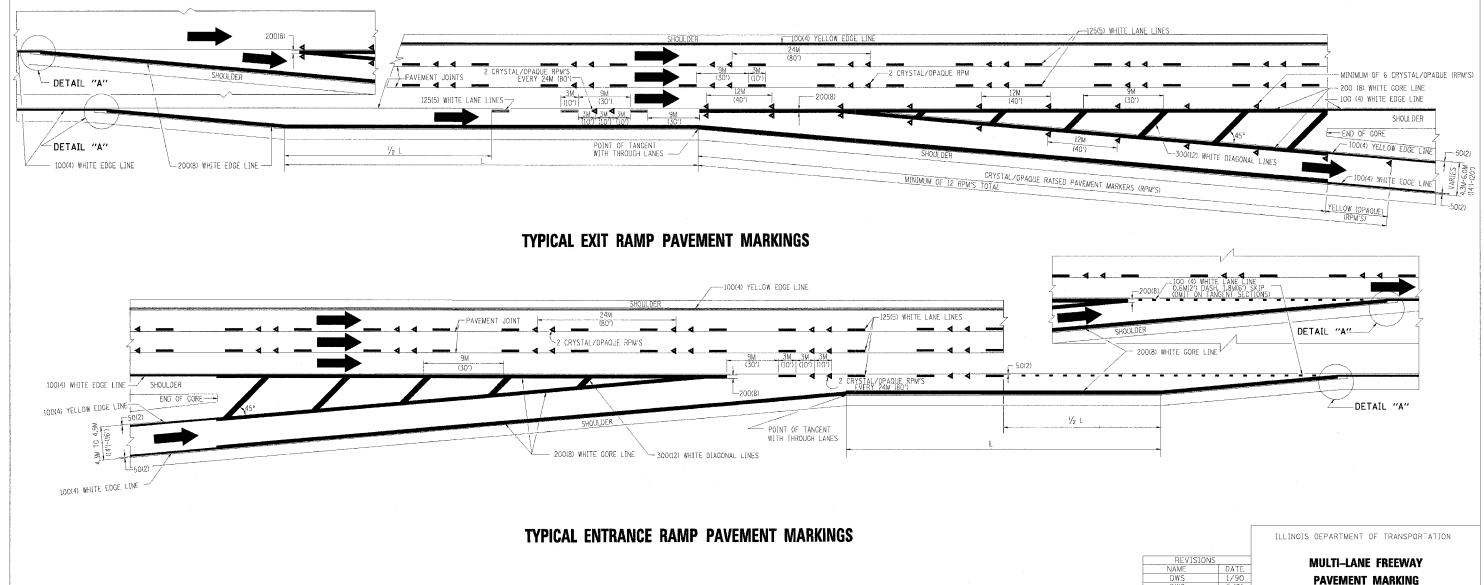
DETAILS

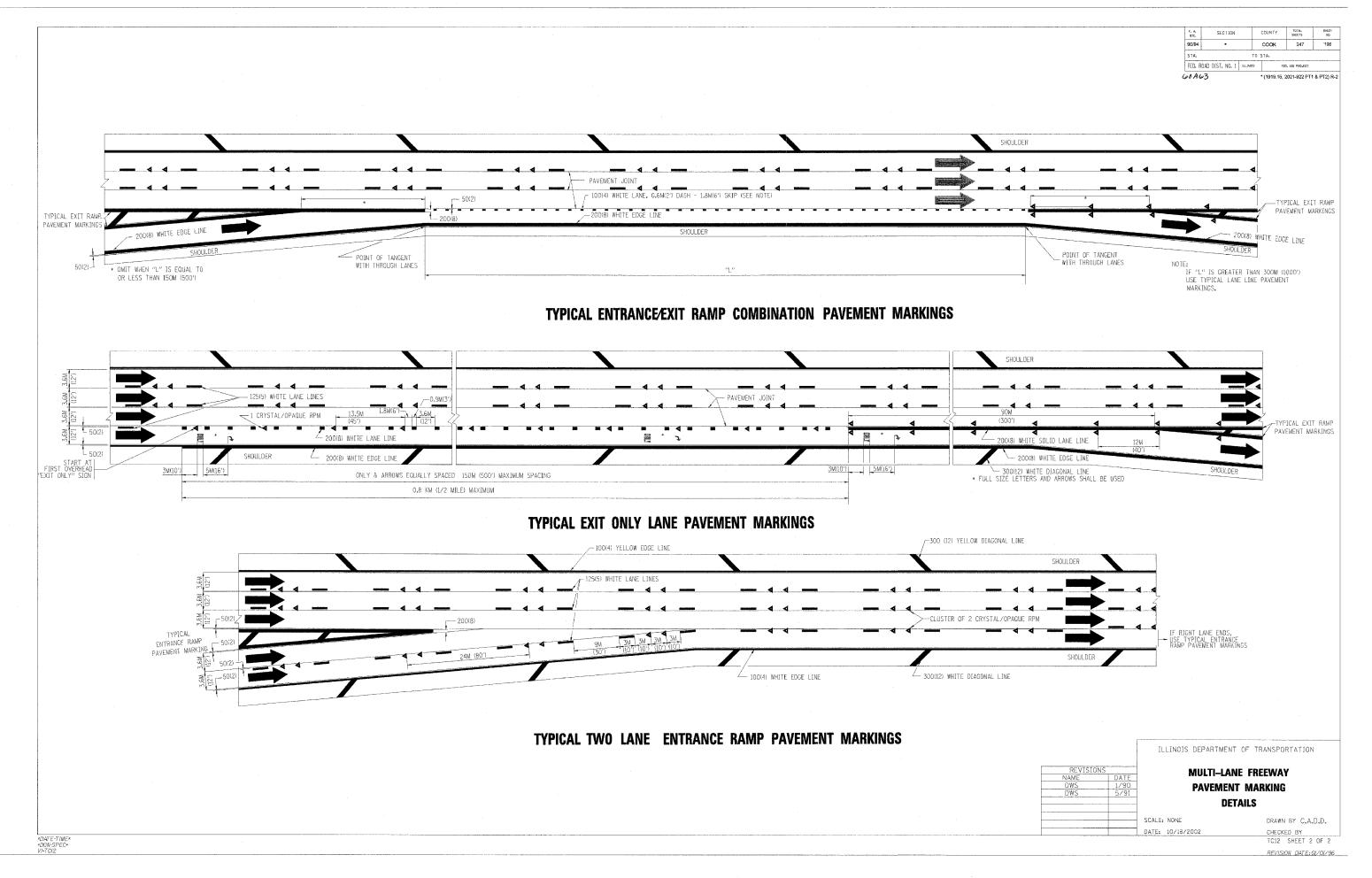
DRAWN BY C.A.D.D.

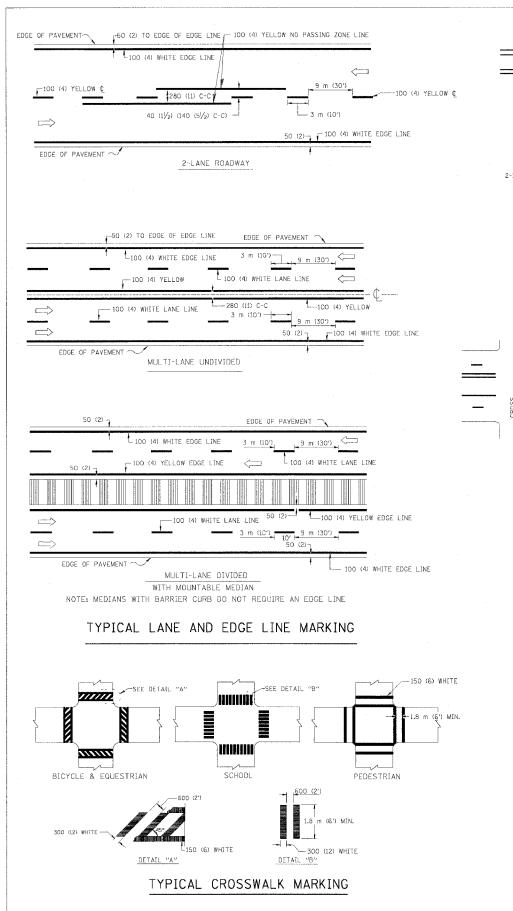
CHECKED BY TC12 SHEET 1 OF 2 REVISION DATE: 01/01/96

SCALE: NONE

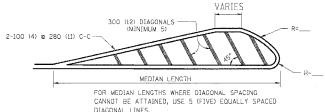
DATE: 10/18/2002





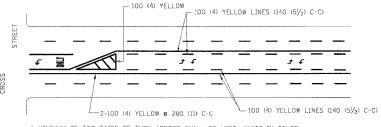




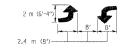


DIAGONAL LINE SPACING: 15 m (50") C-C (LESS THAN 50 km/h (30 MPH))
25 m (75") C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH))
45 m (150") C-C (MORE THAN 70 km/h (45 MPH))

MEDIANS OVER 1.2 m (4') WIDE

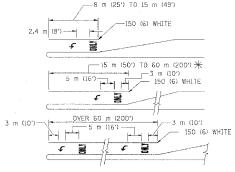


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 60 m (200') TO 90 m (300') INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

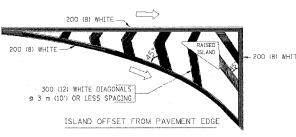
TYPICAL PAINTED MEDIAN MARKING

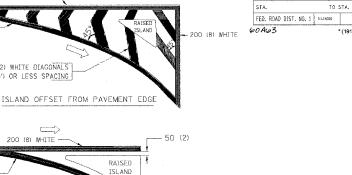


* TURN LANES IN EXCESS OF 120 m (400") IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING





TYPICAL ISLAND MARKING

ISLAND AT PAVEMENT EDGE

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4)	SKIP-DASH	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 @ 100 (4)	SOLID	YELLOW	280 (11) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	100 (4) 2 @ 100 (4)	SOLID SOLID	YELLOW YELLOW	140 (5½) C-C FROW SKIP-DASH CENTERLINE 280 (11) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	3 m (10') LINE WITH 9 m (30') SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	600 (2') LINE WITH 1.8 m (6') SPACE
EDGE LINES	100 (4)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6) LINE; FULL SIZE LETTERS & SYMBOLS (2.4 m (8'))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 100 (4) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	3 m (IO') LINE WITH 9 m (3O') SPACE FOR SKIP-DASH; 14O (5½) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	2.4 m (8') LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 150 (6) 300 (12) @ 45° 300 (12) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (2') APART 600 (2') APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m (4'1 IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 100 (4) WITH 300 (12) DIAGONALS	SOLID	YELLOW: TWO WAY TRAFFIC	280 (11) C-C FOR THE DOUBLE LINE
	@ 45° NO DIAGONALS USED FOR 1.2 m (4') WIDE MEDIANS		WHITE: ONE WAY TRAFFIC	SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIAGONALS @ 45°	SOLID	WHITE	DIACONALS: 4.5 m (15') C-C (LESS THAN 50 km/h (30 MPH) 6 m (20') C-C (50 km/h (30 MPH) TD 70 km/h (45 MPH 9 m (30') C-C (OVER 70 km/h (45 MPH)
RAILROAD CROSSING	600 (24) TRANSVERSE LINES; "RR" IS 1.8 m (6') LETTERS; 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA 0F: "R"-0.33m2 (3.6 SQ. FT.) EACH "X"-5.0 m2 (54.0 SQ. FT.)
SHOULDER DIAGONALS	300 (12) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	15 m (50") C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75") C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH 45 m (150") C-C (OVER 70 km/h (45 MPH))

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

> SCALE: NONE DATE 10/18/2002

DRAWN BY CADD CHECKED BY

COUNTY FOTAL SHEET NO

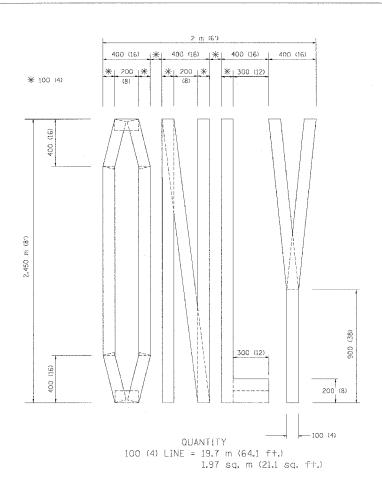
* (1919.15, 2021-922 PT1 & PT2) R-2

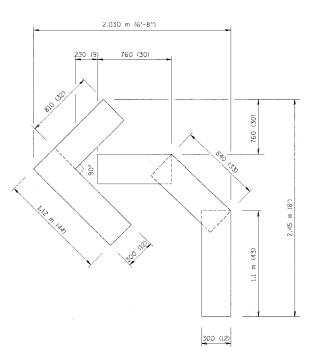
COOK 247

SECTION

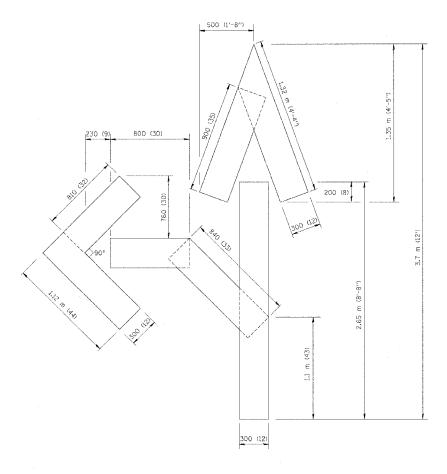
TC-13

REVISION DATE: 01/06/00





QUANTITY 100 (4) LINE = 13.9 m (45.5 ft.) 1.39 sq. m (15.2 sq. ft.)



QUANTITY 100 (4) LINE = 25.3 m (82.5 ft.) 2.53 sq. m (27.5 sq. ft.)

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

REVISIO	REVISIONS			
NAME	DATE			
T. RAMMACHER	09/18/94			
J. OBERLE	06/01/96			
T. RAMMACHER	06/05/96			
T. RAMMACHER	11/04/97			
T. RAMMACHER	03/02/98			
E. GOMEZ	08/28/00			

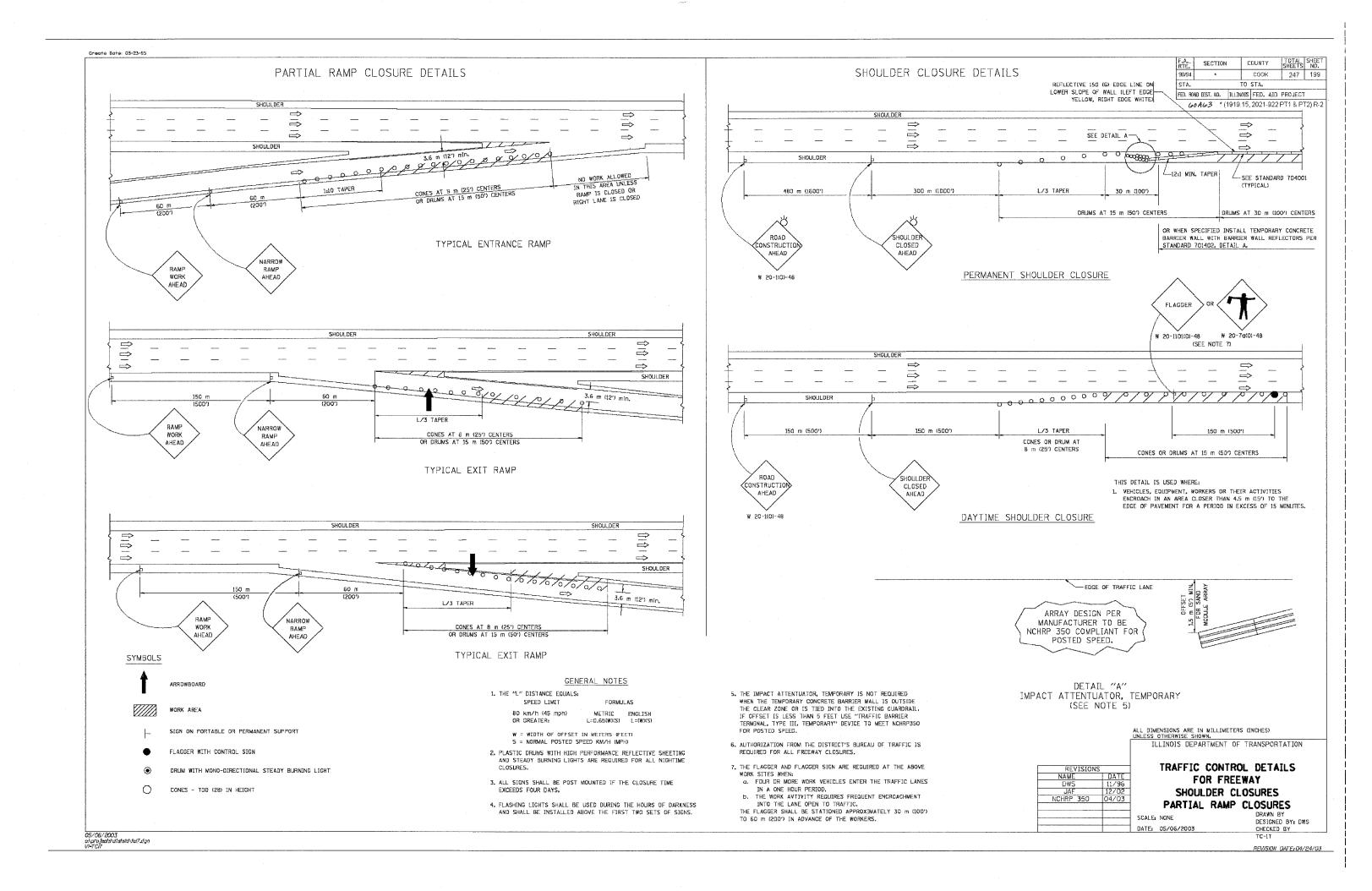
_	PAVEMENT N	MARKING
16	LETTERS AND FOR TRAFFIC	
16	TOR TRAITIC	3 I AGING

SCALE: NONE

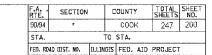
DATE 10/18/2002

DRAWN BY CADD CHECKED BY TC-16

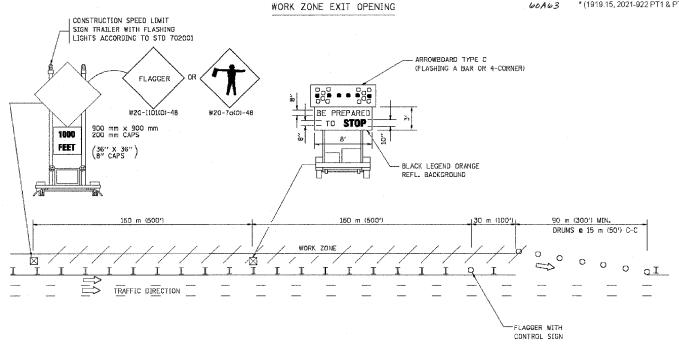
REVISION DATE: 08/28/00

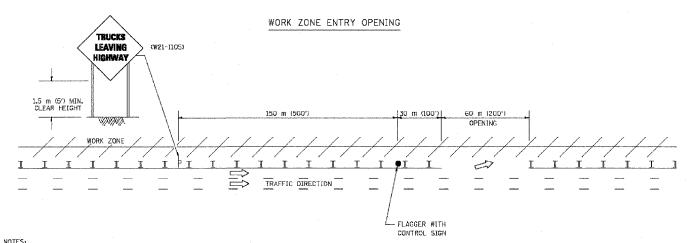


SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS



60A63 * (1919.15, 2021-922 PT1 & PT2) R-2





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

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN

ILLINOIS DEPARTMENT OF TRANSPORTATION

DATE 8/98 4/03 NAME DWS

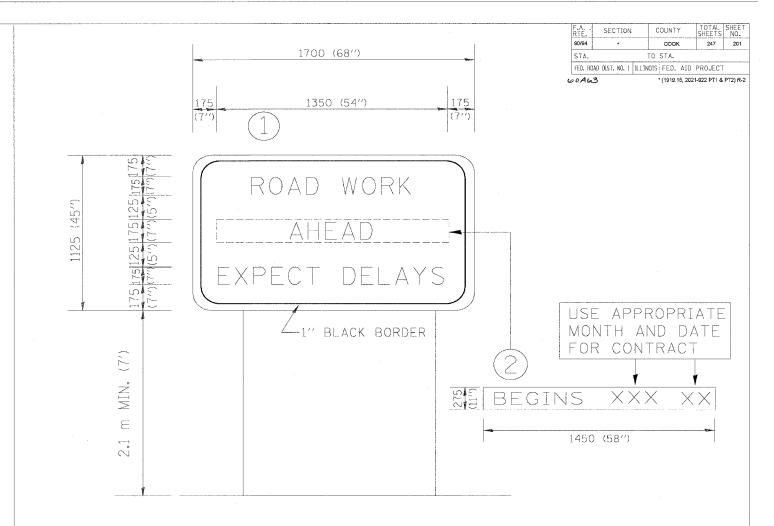
SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

SCALE: NONE

DRAWN BY CADD CHECKED BY

REVISION DATE: 04/24/03

05/06/2003 c\projects\diststd\tcl8.dgn VI-TCl8

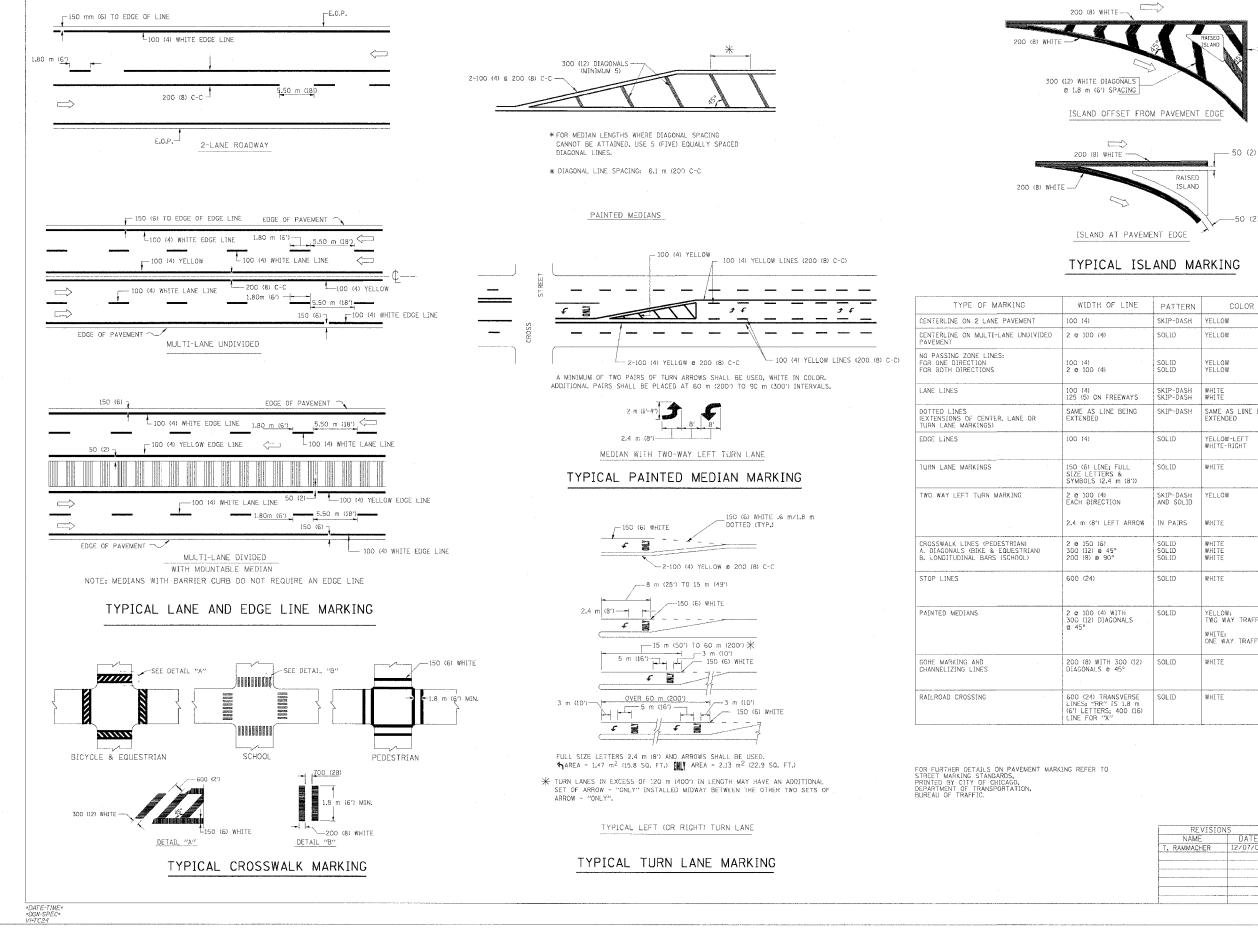


NOTES:

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN 1 WITH INSTALLED PANEL 2 ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 2.3 SQ. M. (25.70 SQ. FT.)



REVISION DATE: 02/02/99



SECTION COUNTY соок 247 FED. ROAD DIST, NO. 1 THI THOUSE FED. ATD PROJECT * (1919.15, 2021-922 PT1 & PT2) R-2

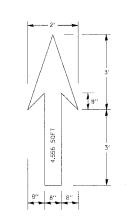
SPACING / REMARKS YELLOW 1.80 m (6') LINE WITH 5.50 m (18') SPACE YELLOW 200 (8) C-C 200 (8) C-C 1.80 m (6') LINE WITH 5.50 m (18') SPACE SAME AS LINE BEING EXTENDED 600 (2") LINE WITH 1.8 (6") SPACE OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB YELLOW-LEFT WHITE-RIGHT SEE TYPICAL TURN LANE MARKING DETAIL 1.8 m (6') LINE WITH 5.50 m (18') SPACE FOR SKIP-DASH; 200 (8) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE YELLOW SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL NOT LESS THAN 1.8 m (6') APART 600 (2') APART 700 (2'-4") APART SEE TYPICAL CROSSWALK MARKING DETAILS. PLACE 1.2 m (4') IN ADVANCE OF AND PARALLEL TO GROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO GROSSROAD CENTERLINE, WHERE POSSIBLE 200 (8) C-C FOR THE DOUBLE LINE YELLOW: TWG WAY TRAFFIC SEE TYPICAL PAINTED MEDIAN MARKING. WHITE: ONE WAY TRAFFIC DIAGONALS: 6.1 m (20') (LESS THAN 50 km/h (30 MPHI) SEE STATE STANDARD 780001 AREA OF: AREA OF: "R"=0.33m² (3.6 SO, FT.) EACH "X"=5.0 m² (54.0 SQ, FT.)

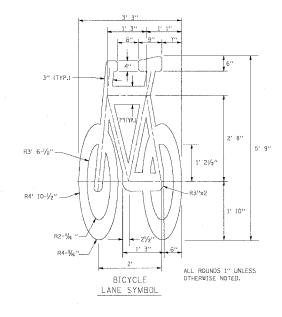
> All dimensions are in millimeters (Inches) 1 OF 2 ILLINOIS DEPARTMENT OF TRANSPORTATION

> > CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS

SCALE: NONE DATE 10/18/2008 DRAWN BY CADD CHECKED BY TC-24

REVISION DATE: 12/07/00

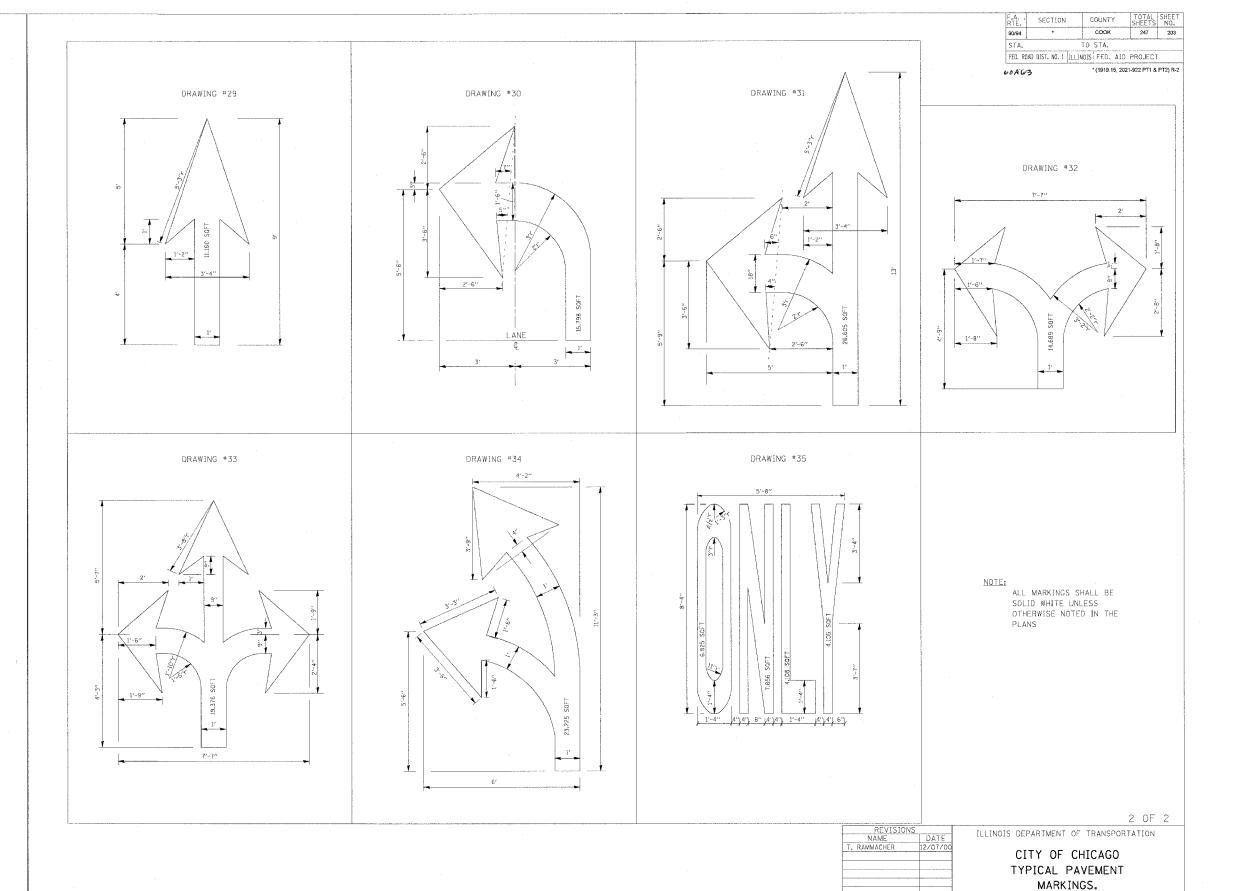




NOTE:
1.) FOR BIKE LANE SYMBOLS ONLY,
USE PRE-FORMED THERMOPLASTIC
WITH A MINIMUM THICKNESS OF 90 MILS,
MINIMUM SKID RESISTANCE VALUE OF 60 BPN,
& A MINIMUM INDEX OF REFRACTION OF 1.50.

2.) THE RESIDENT ENGINEER SHALL CONTACT MR. BEN GOMBERG AT 312-744-8093 AT LEAST ONE CALENDAR WEEK PRIOR TO INSTALLING BIKE LANE SYMBOLS.

TYPICAL BIKE LANE SYMBOLS
DRAWING #28

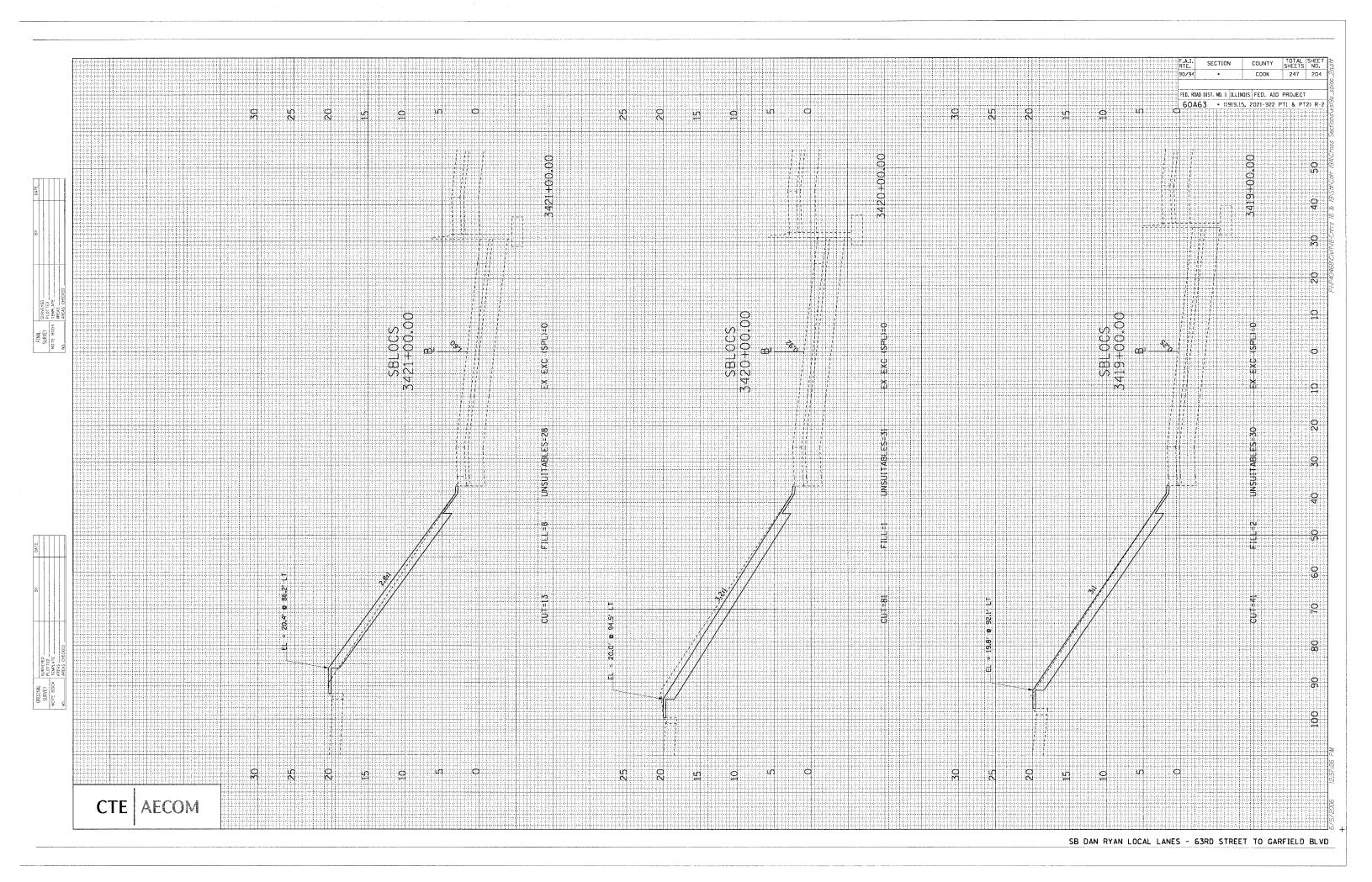


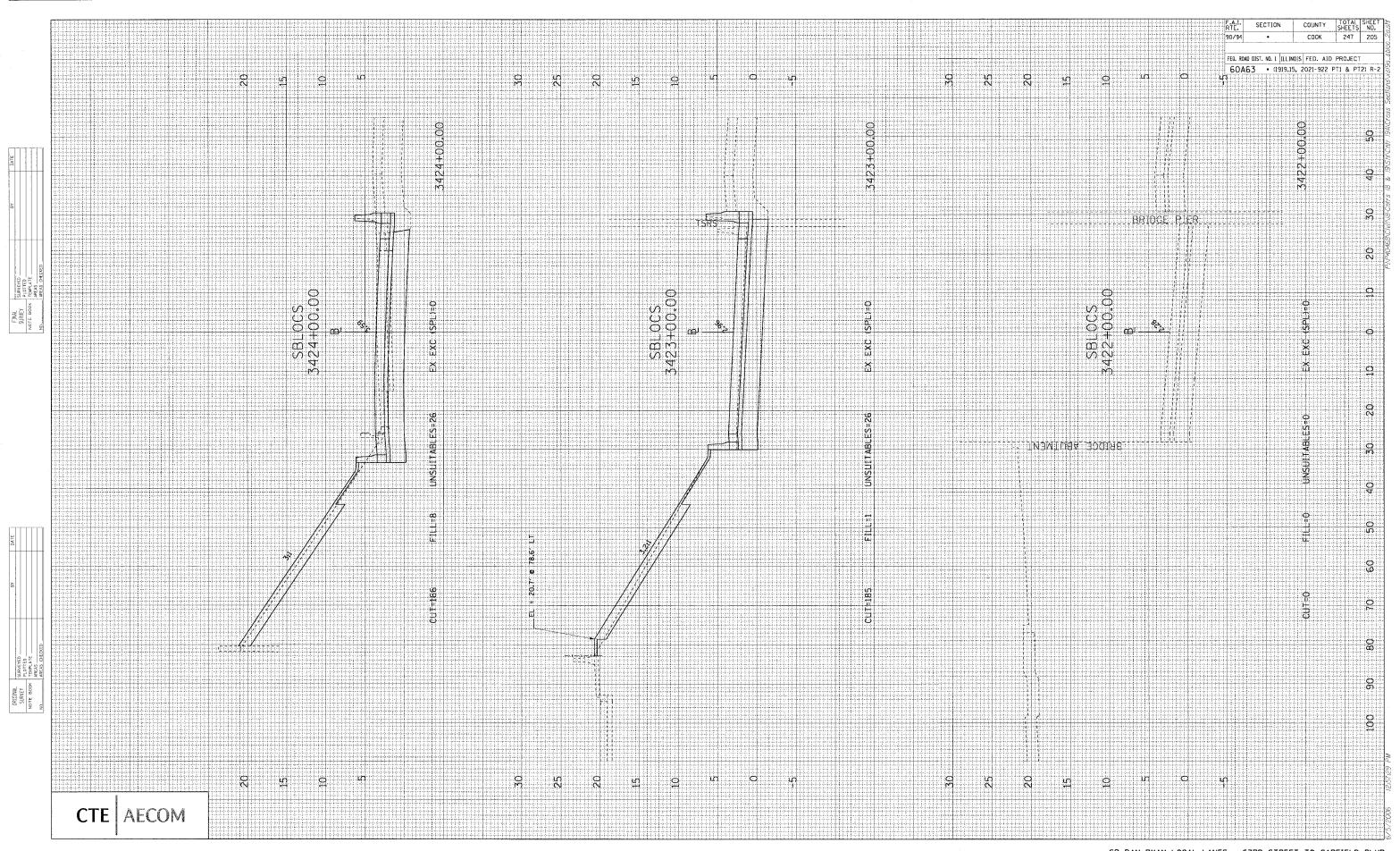
CHECKED BY REVISION DATE: 02/25/04

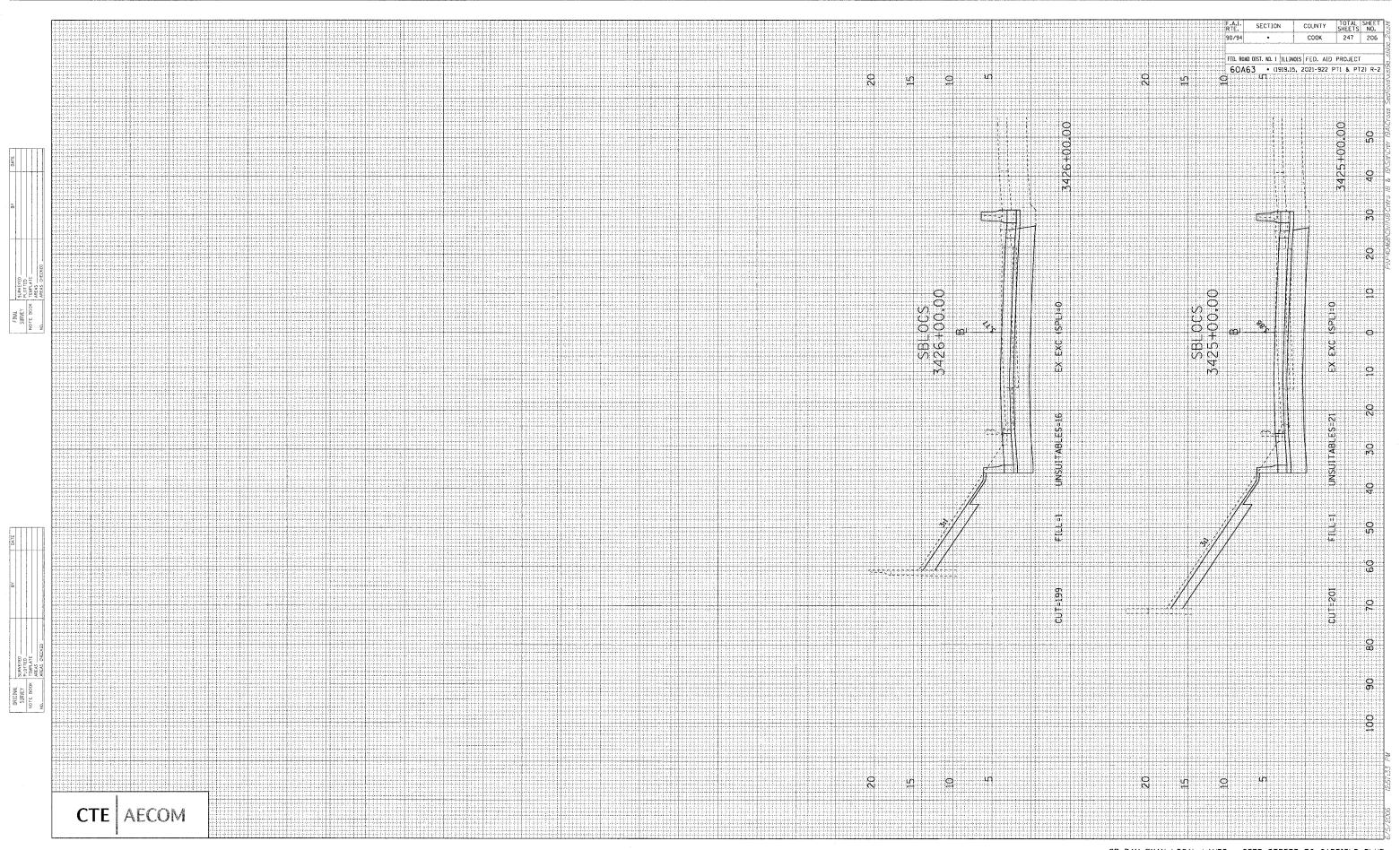
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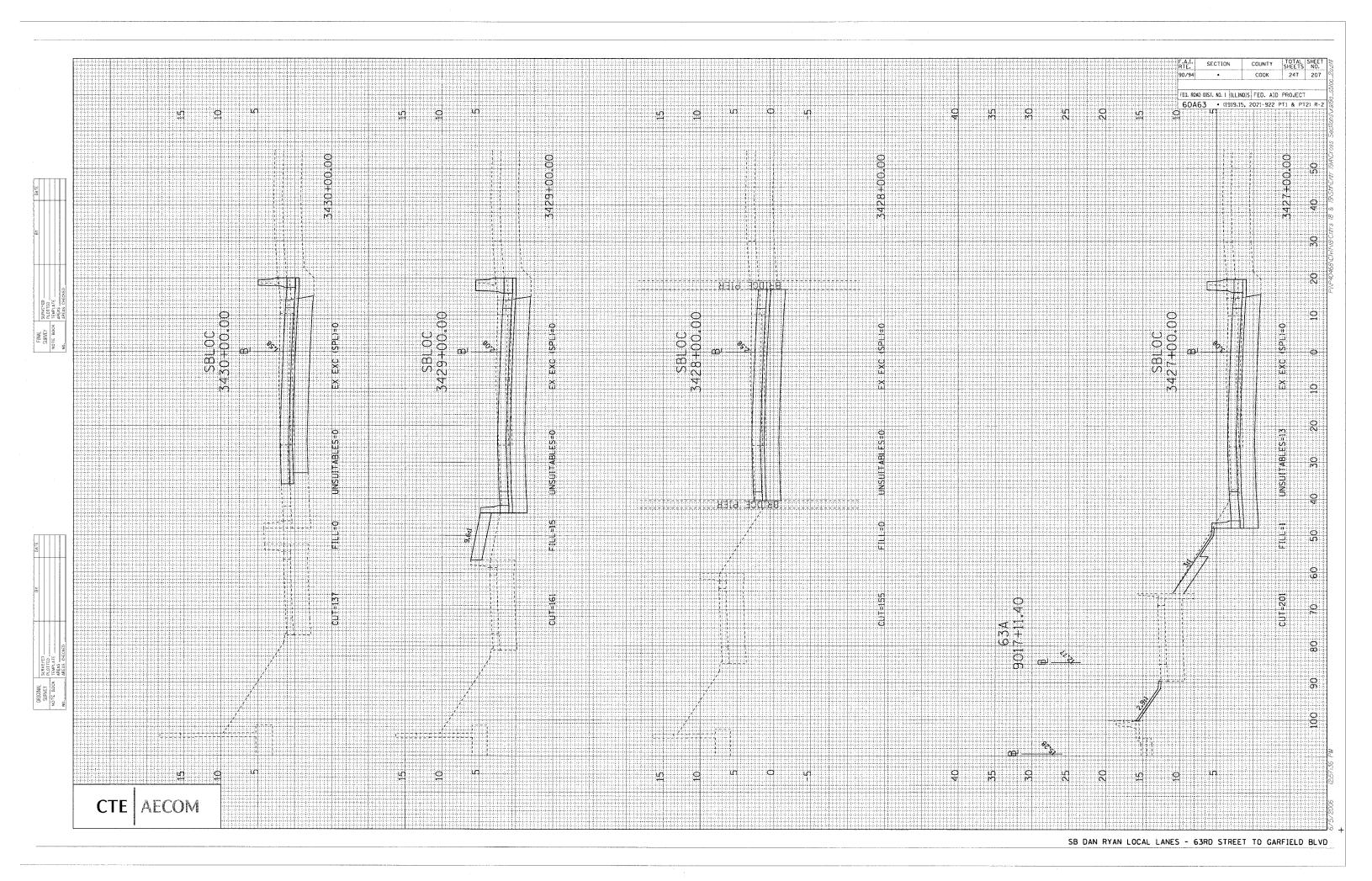
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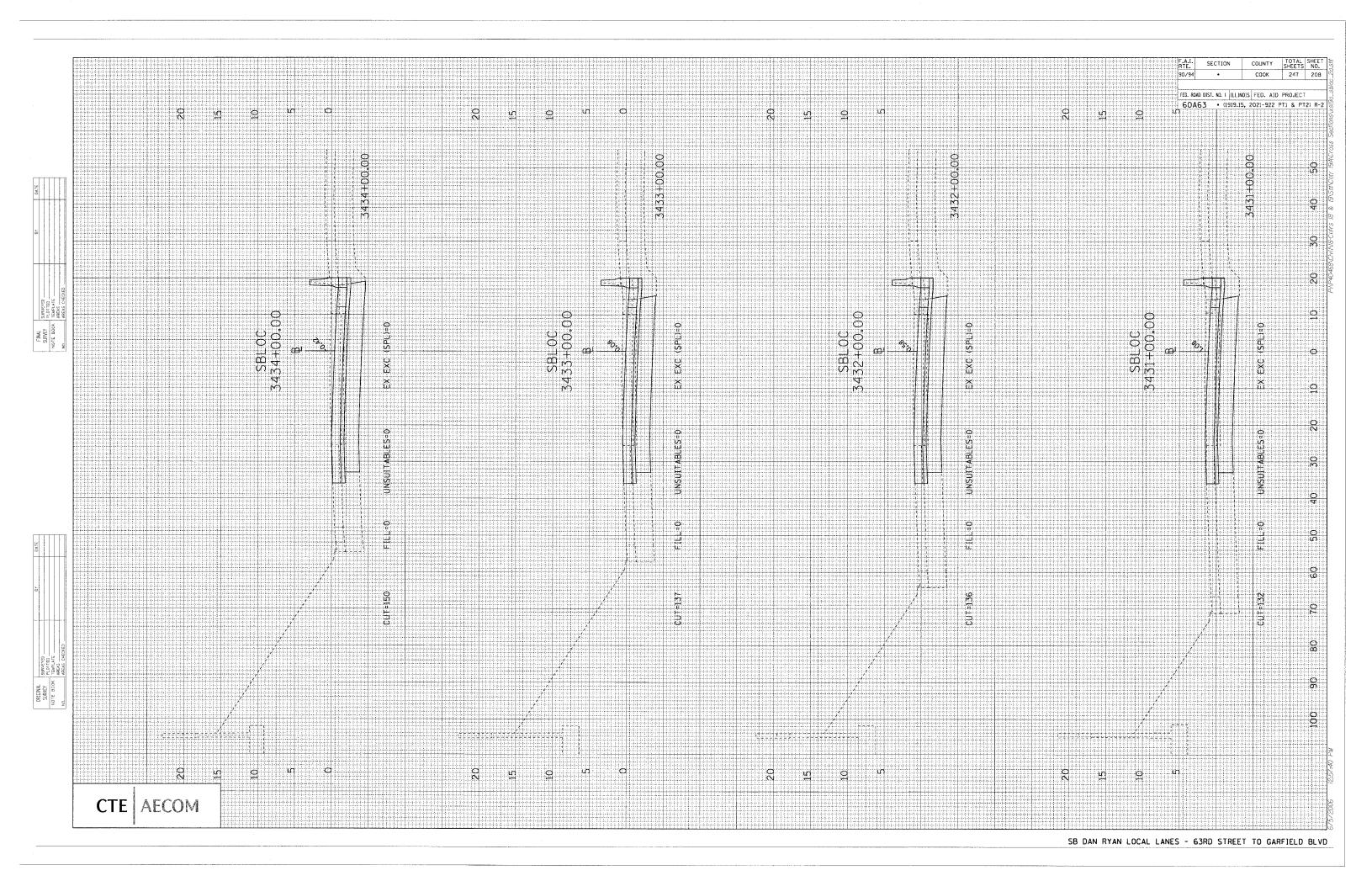
DATE 03/09/2004

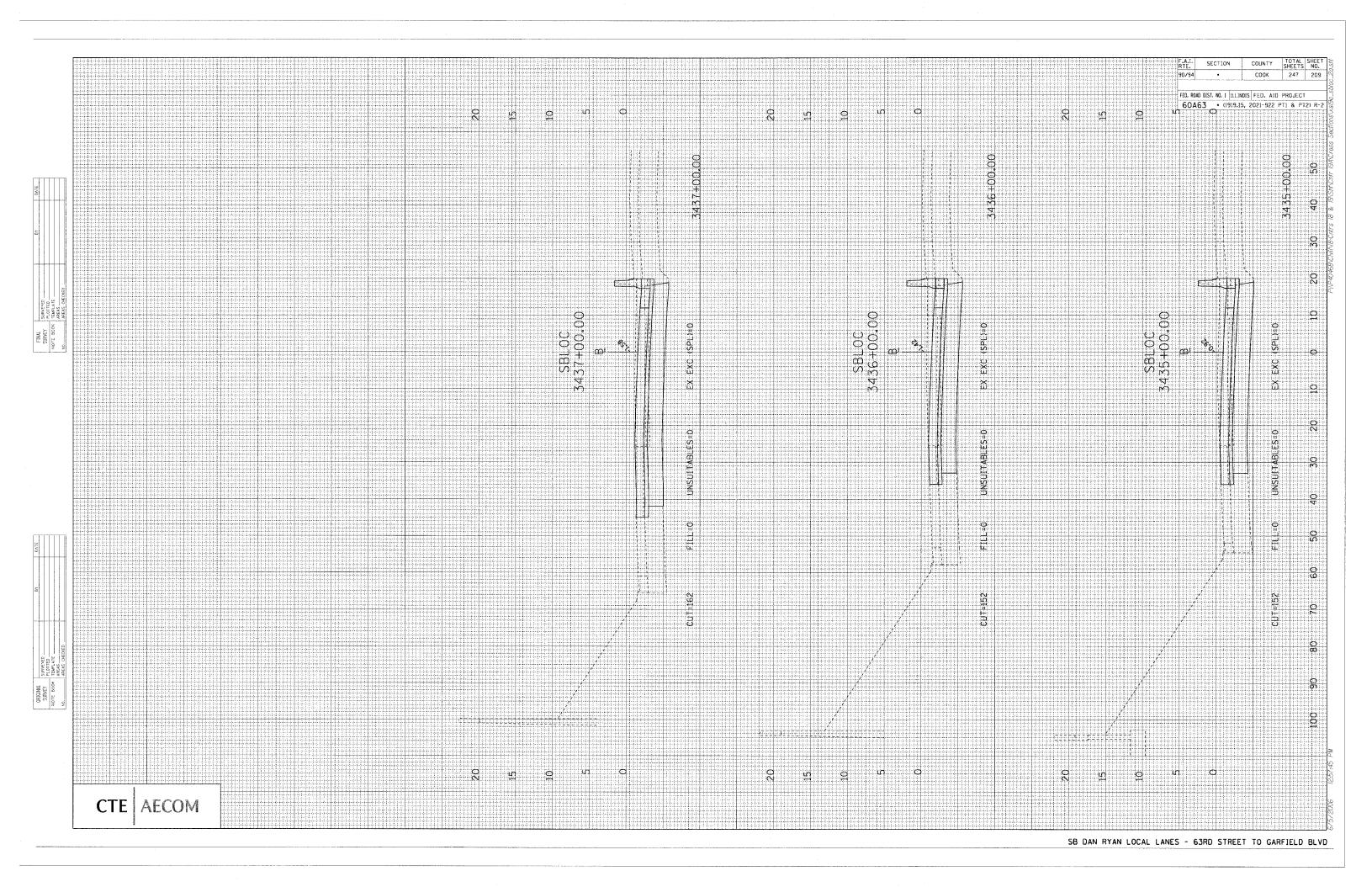




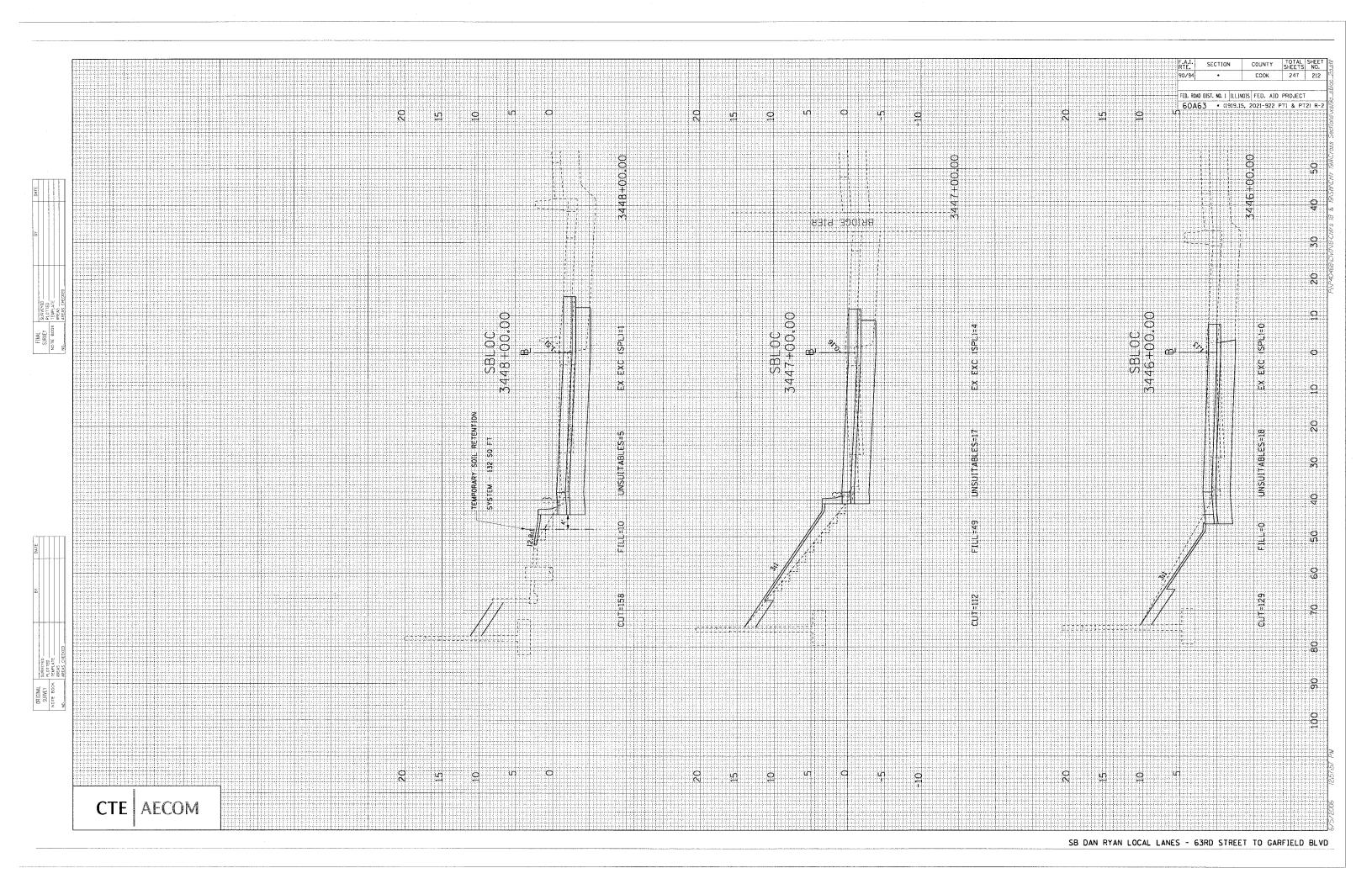


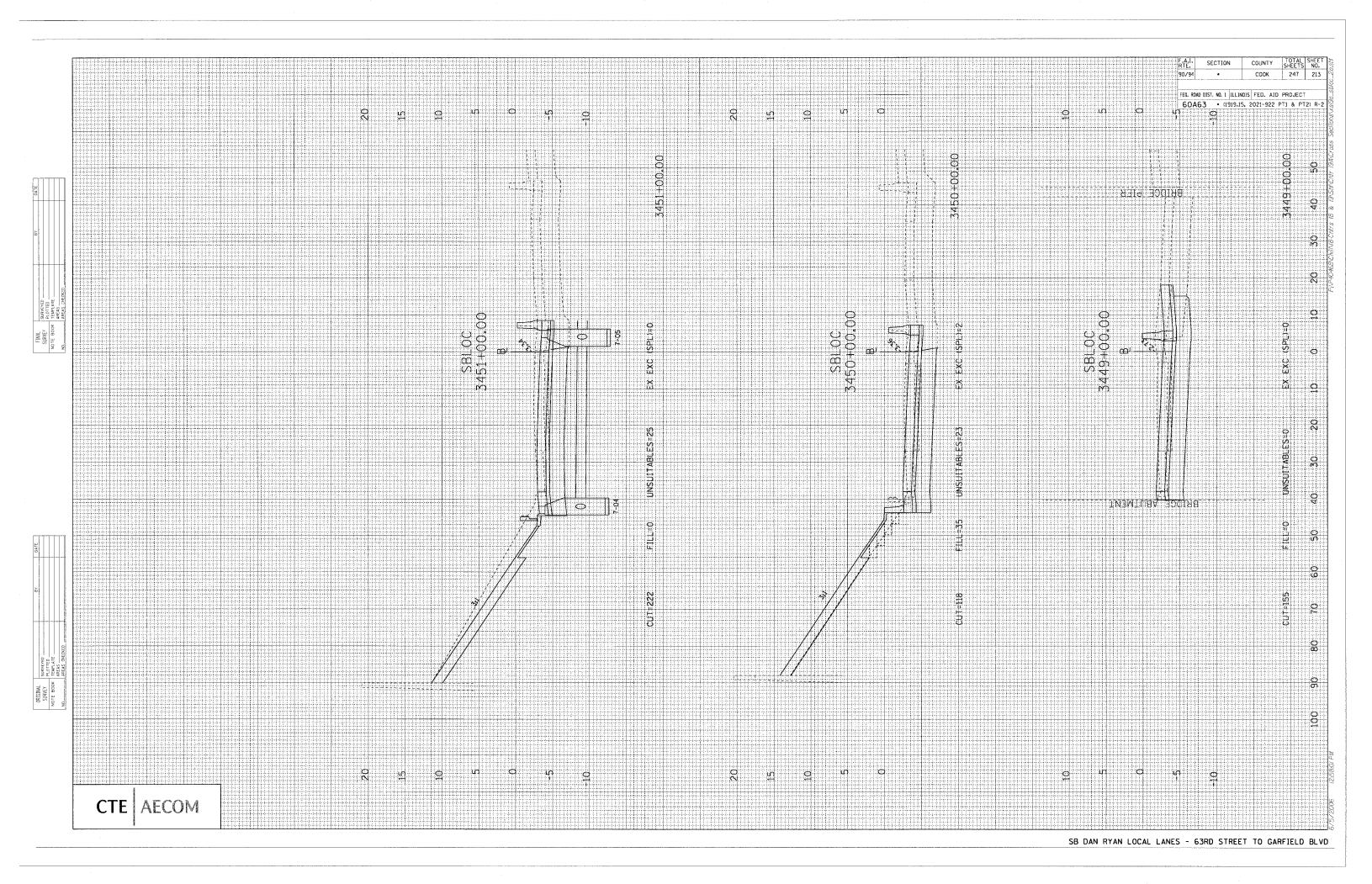


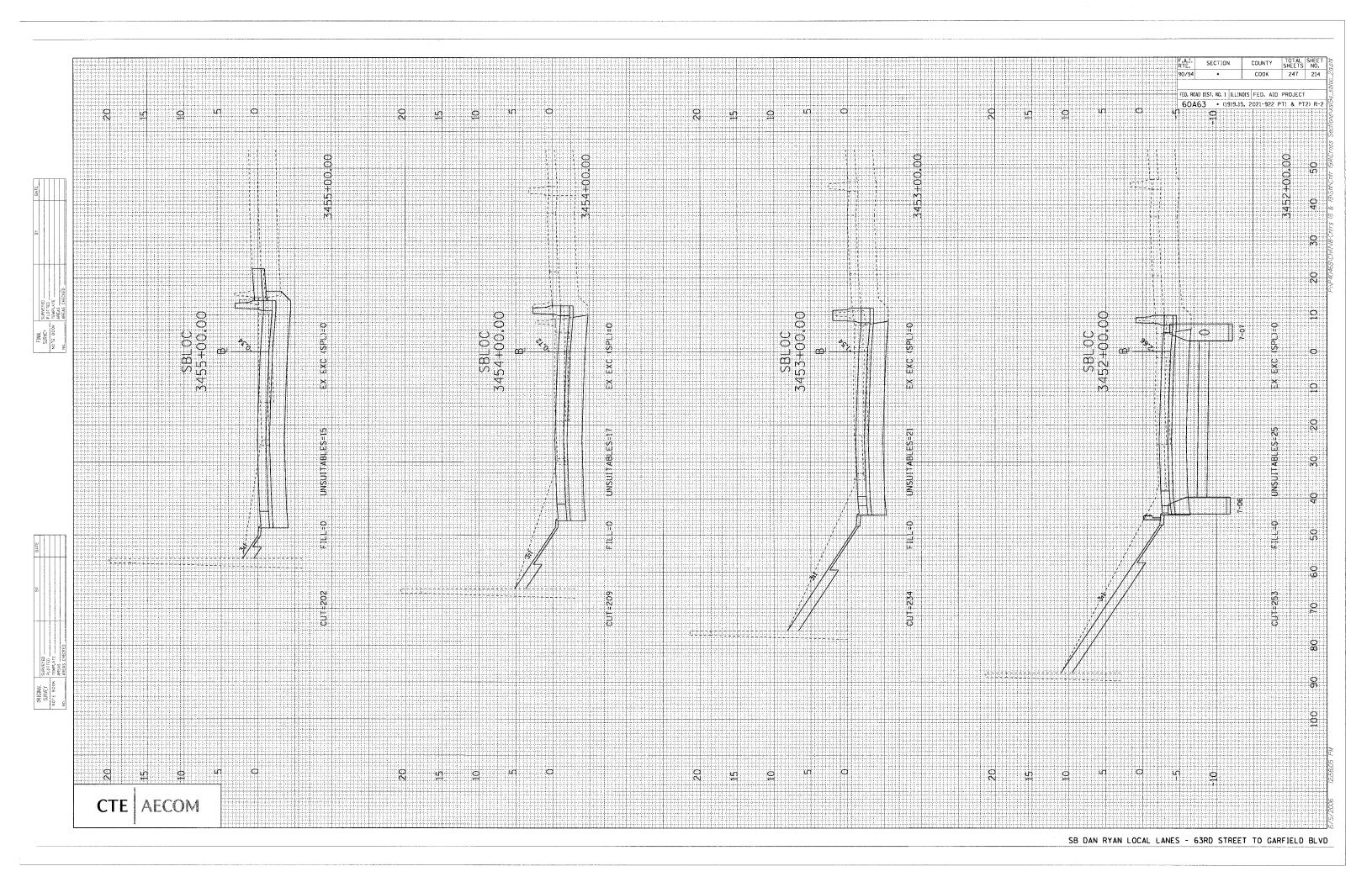


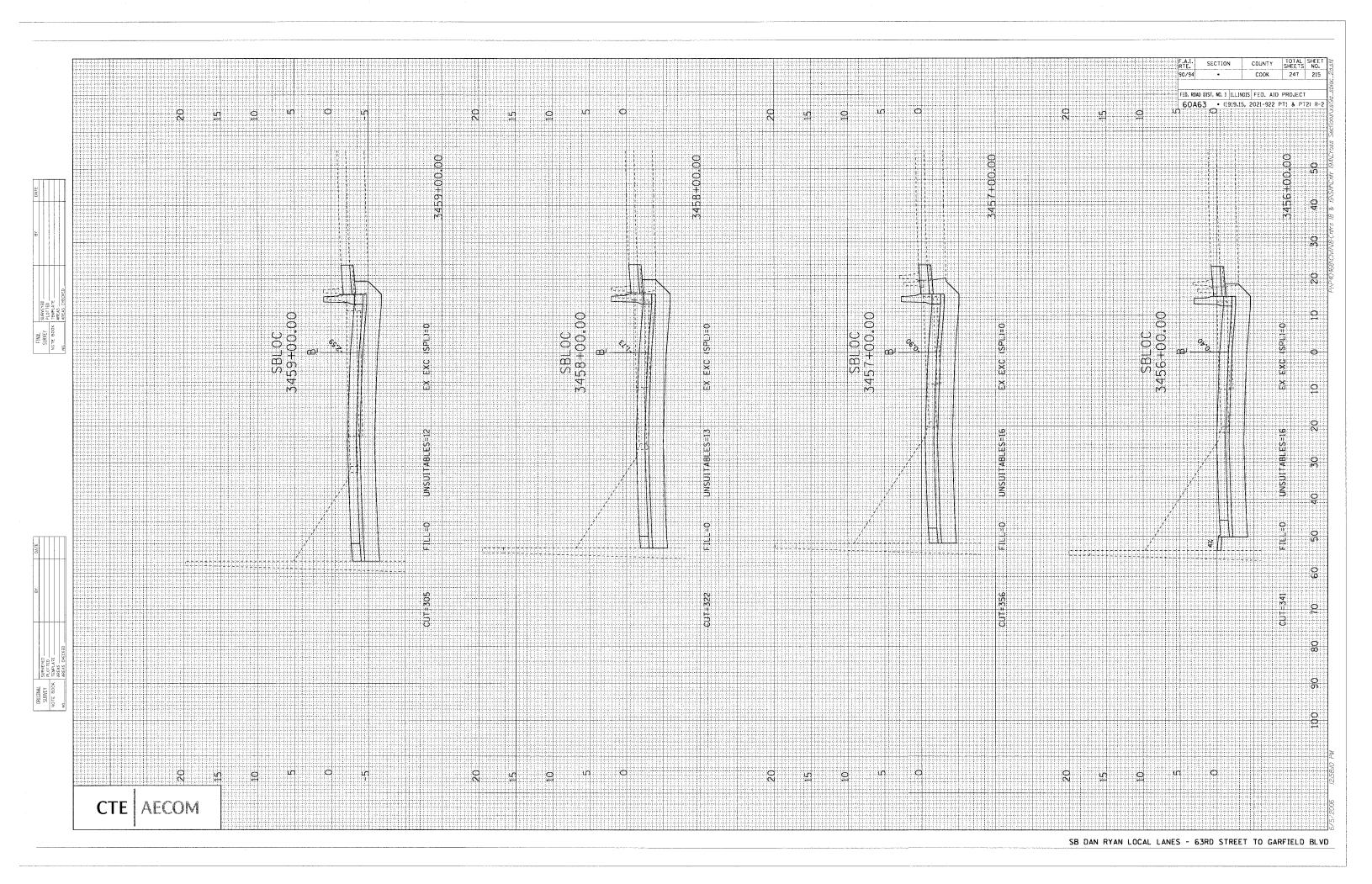


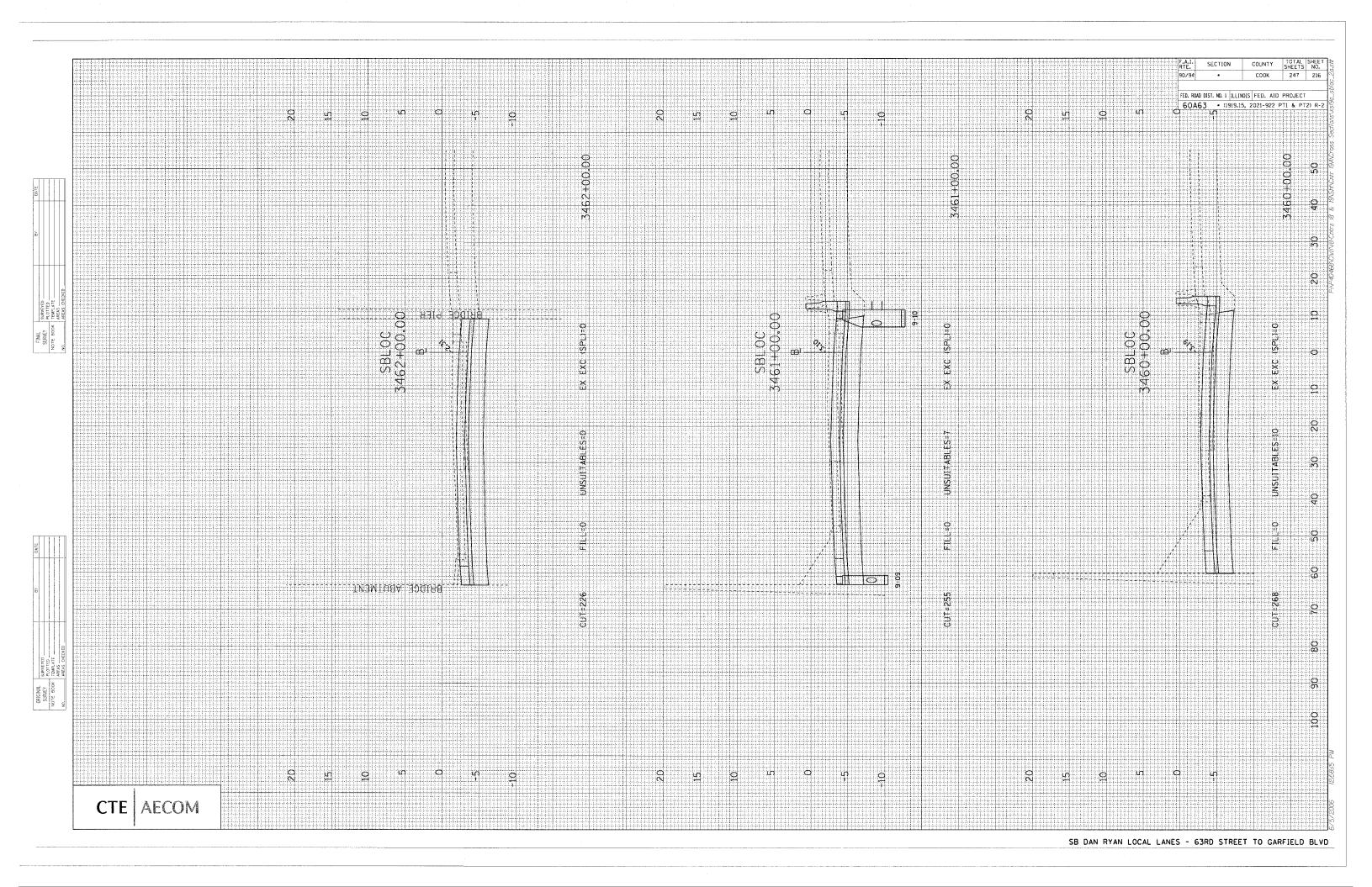
COUNTY 20

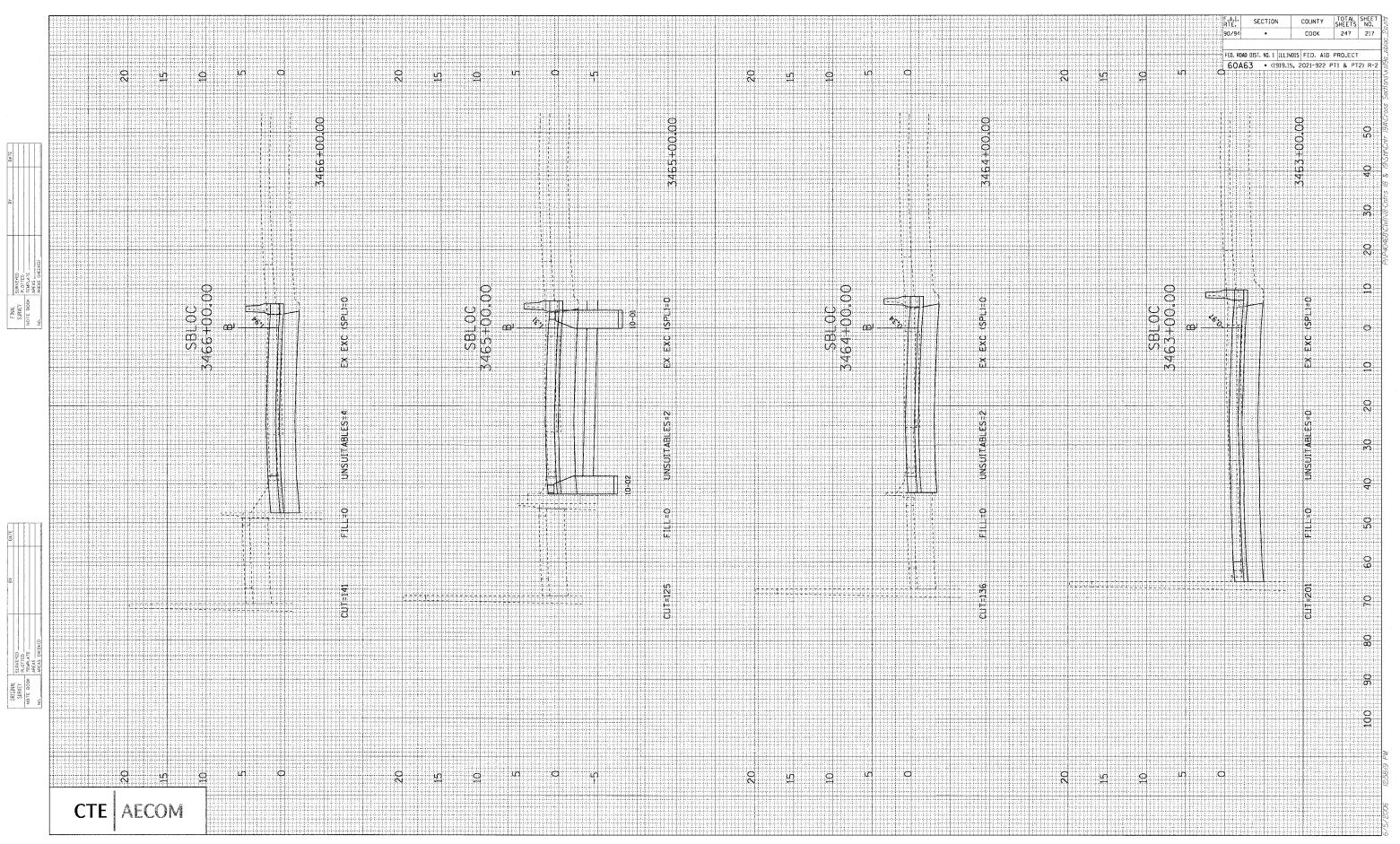


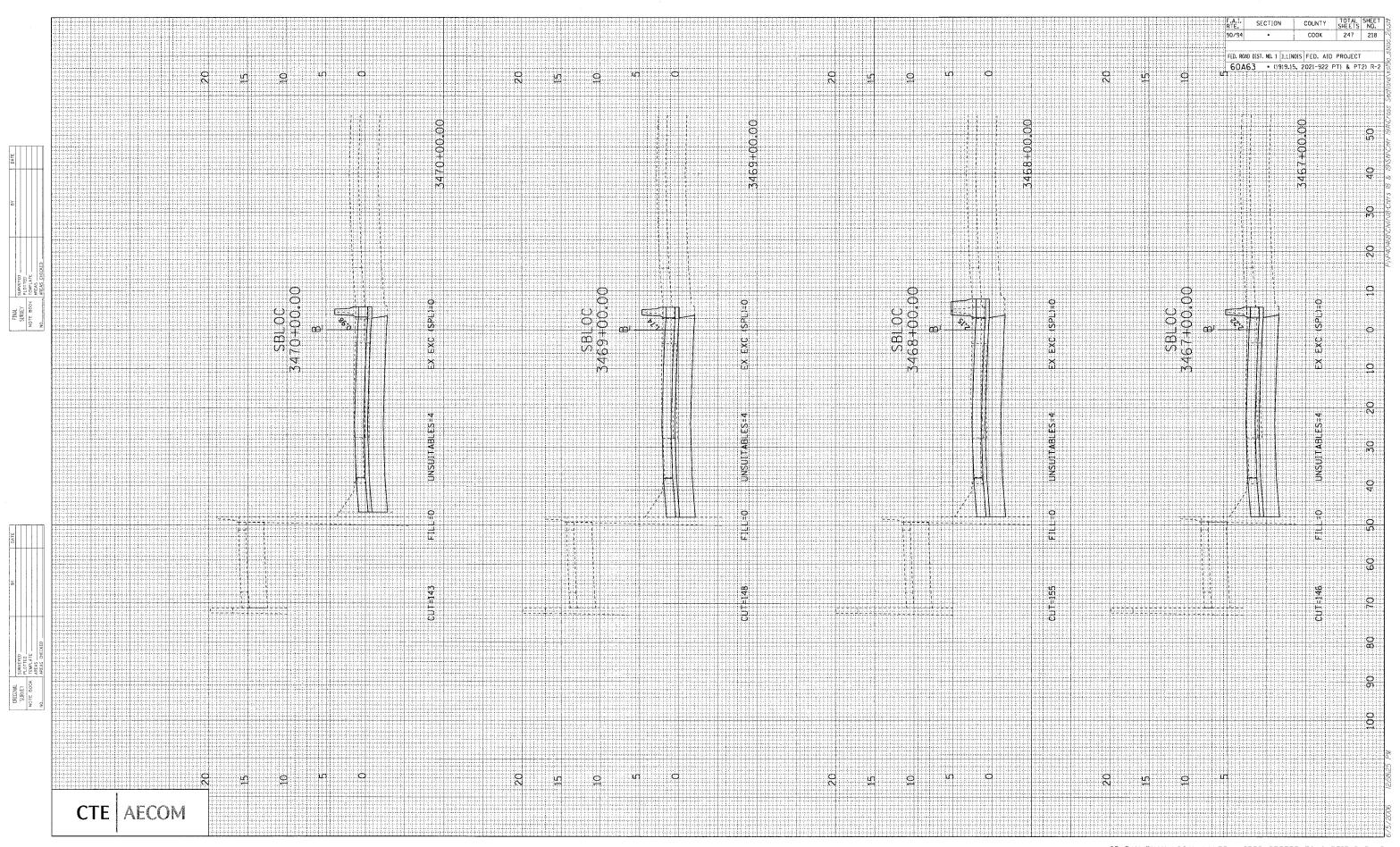


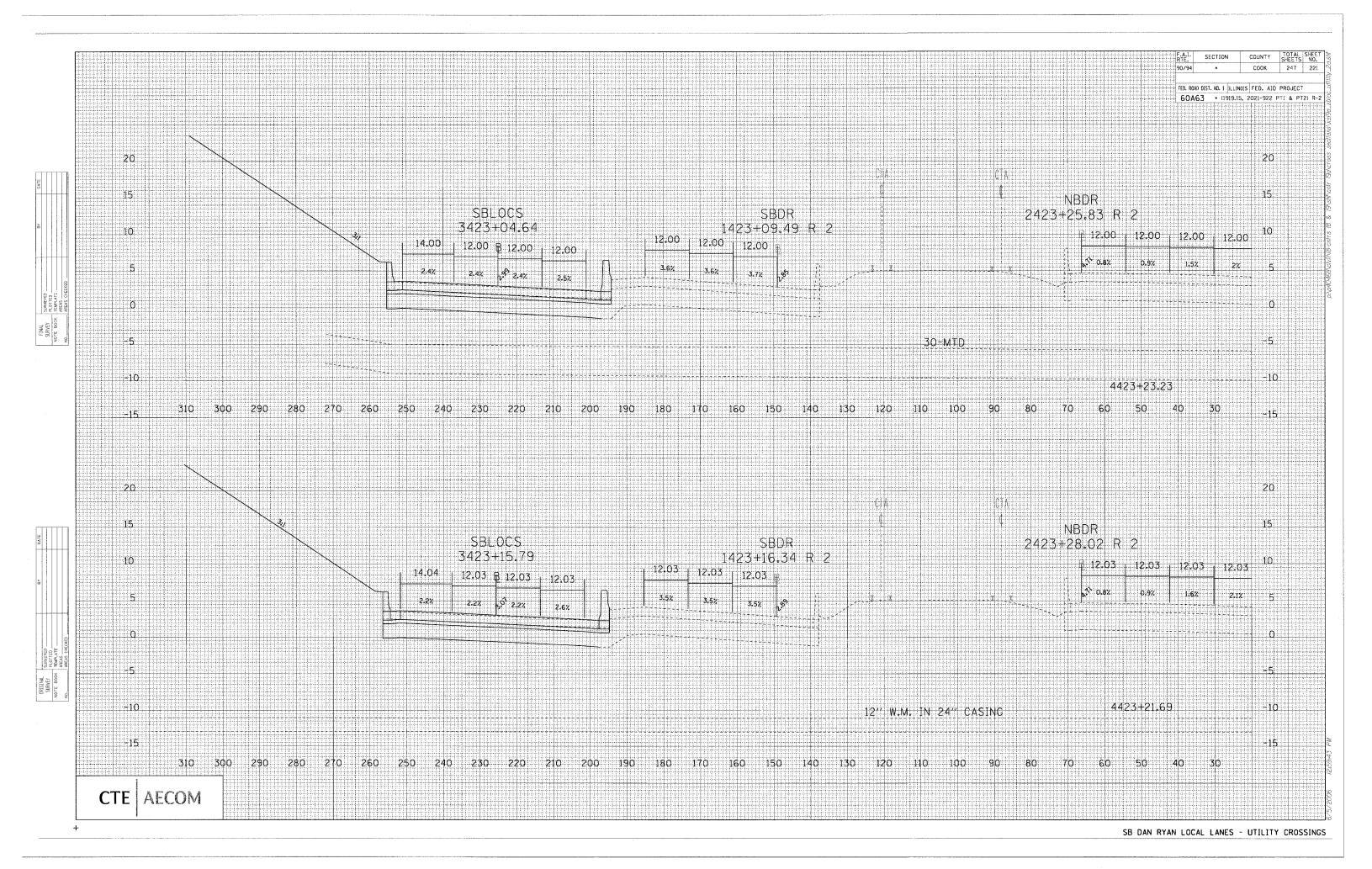


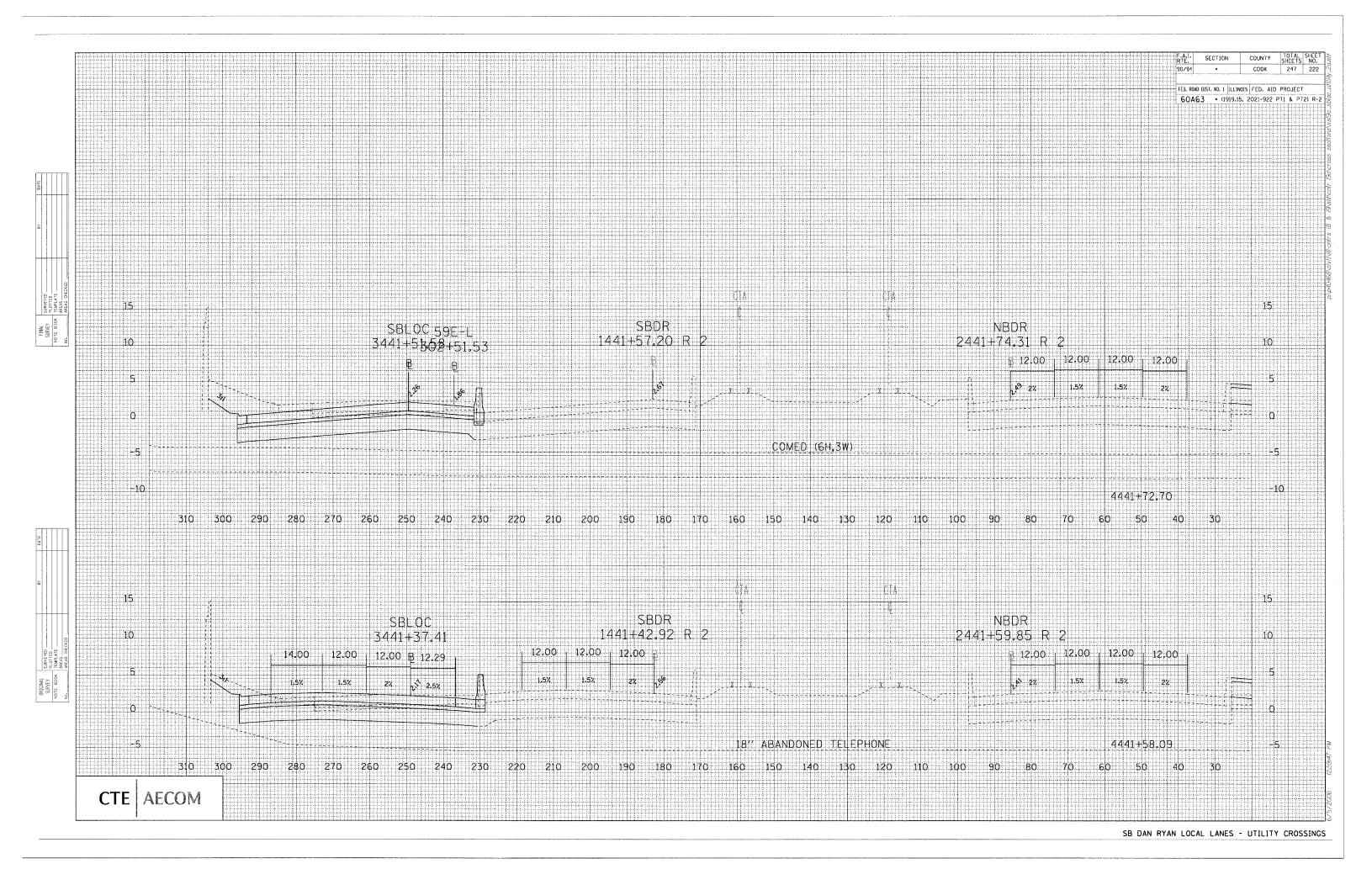


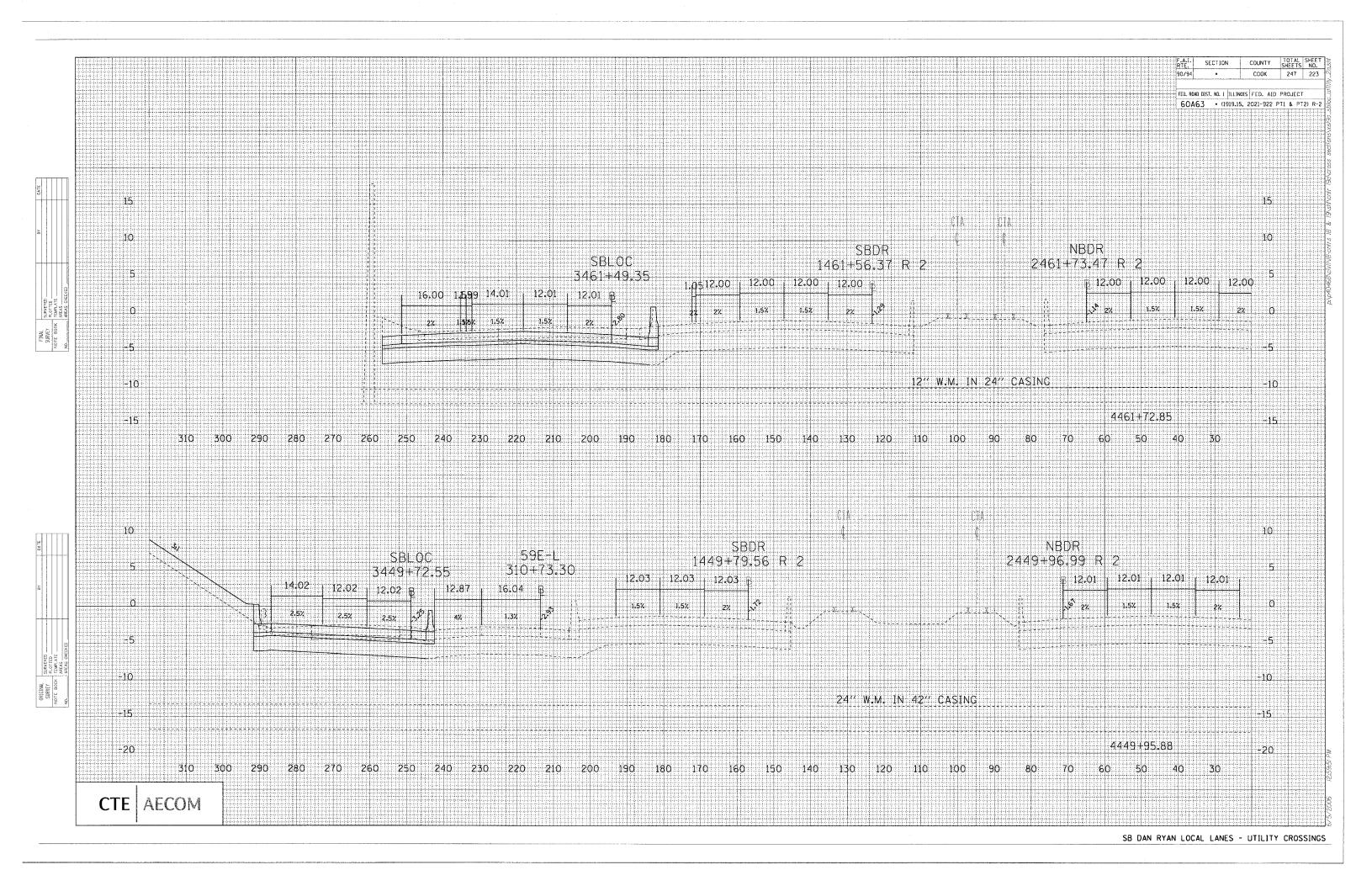


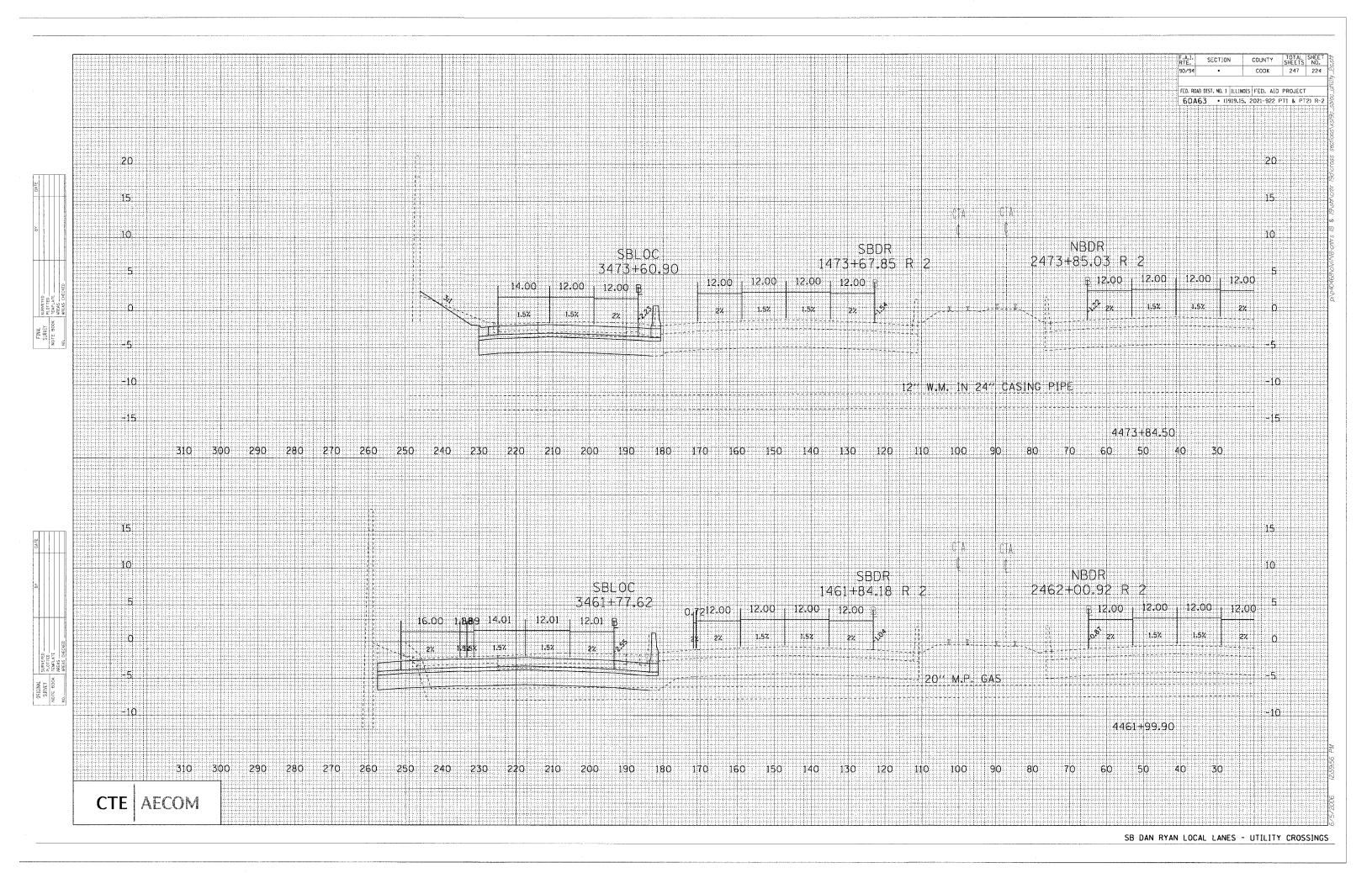


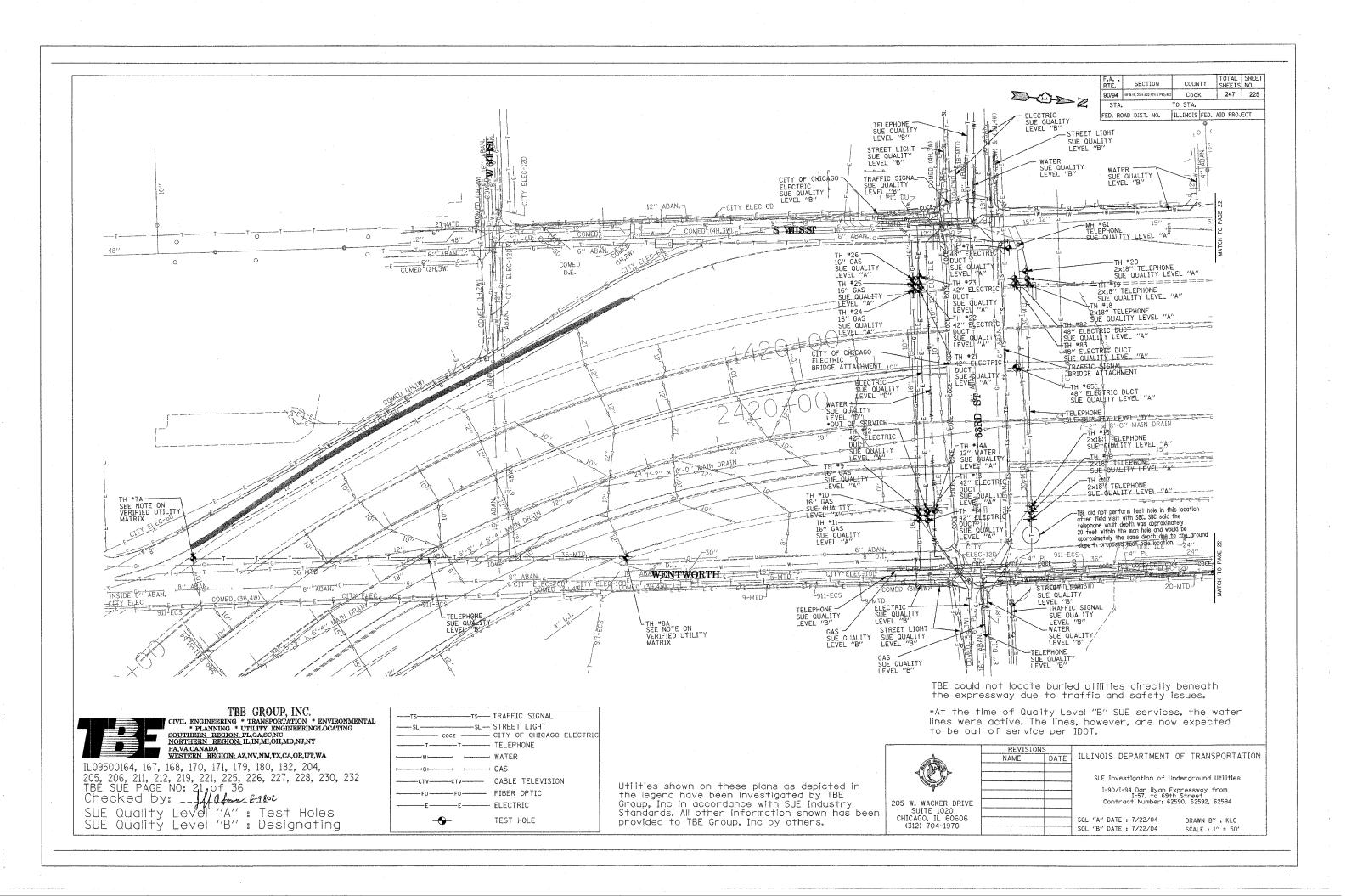


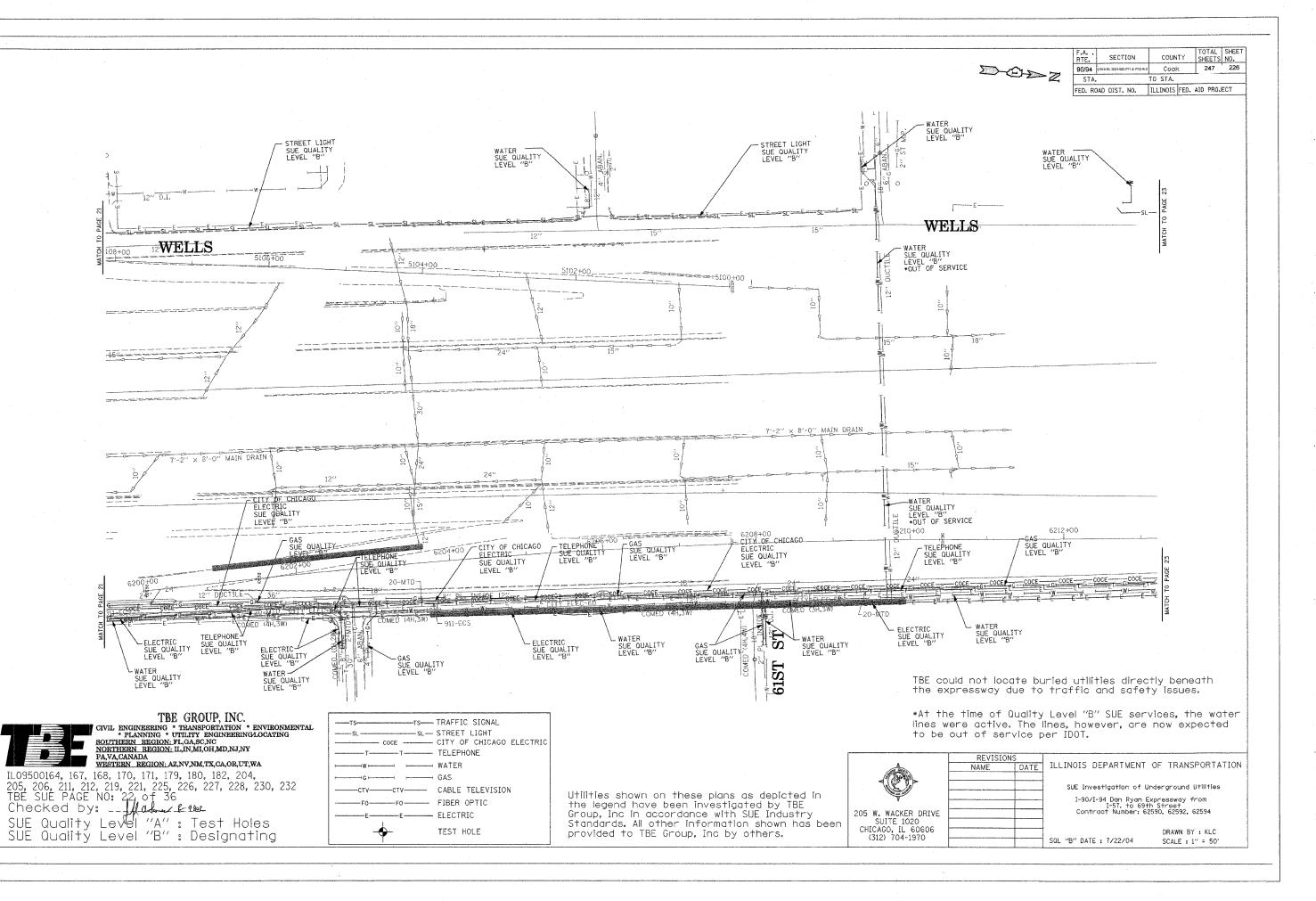


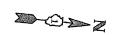




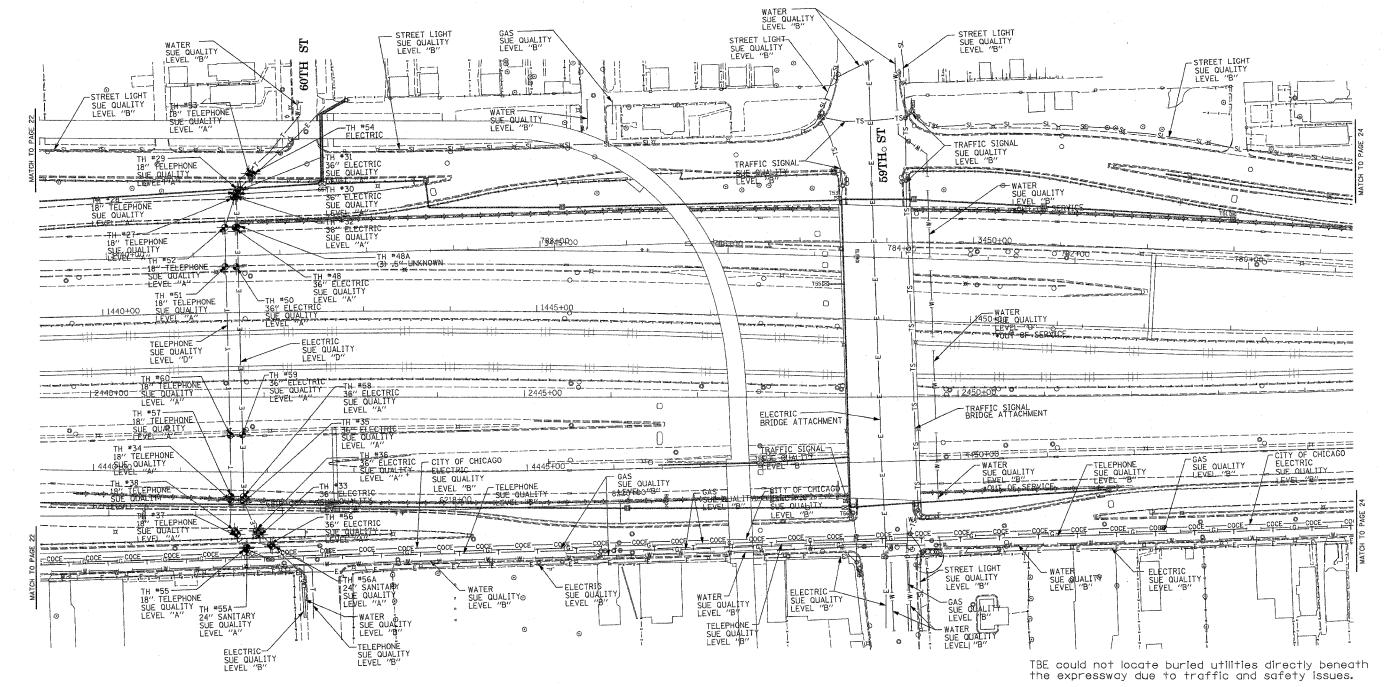








TOTAL SHEET SHEETS NO. RTE. COUNTY SECTION 247 227 90/94 (1919.15, 2021-922 PT1 8 PT Cook STA. TO STA. FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



TBE GROUP, INC.

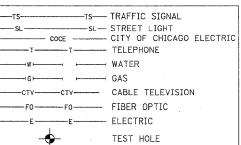
CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL
* PLANNING * UTILITY ENGINEERING/LOCATING SOUTHERN REGION: FL,GA,SC,NC NORTHERN REGION: IL,IN,MI,OH,MD,NJ,NY PA,VA,CANADA

WESTERN REGION: AZ,NV,NM,TX,CA,OR,UT,WA

IL09500164, 167, 168, 170, 171, 179, 180, 182, 204, 205, 206, 211, 212, 219, 221, 225, 226, 227, 228, 230, 232

TBE SUE PAGE NO: 23 of 36 Checked by: Sanda Llever Pt

SUE Quality Level "A" : Test Holes SUE Quality Level "B": Designating



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

*At the time of Quality Level "B" SUE services, the water lines were active. The lines, however, are now expected to be out of service per IDOT.

REVISIONS

NAME

205	W. WACKER DRIVE SUITE 1020

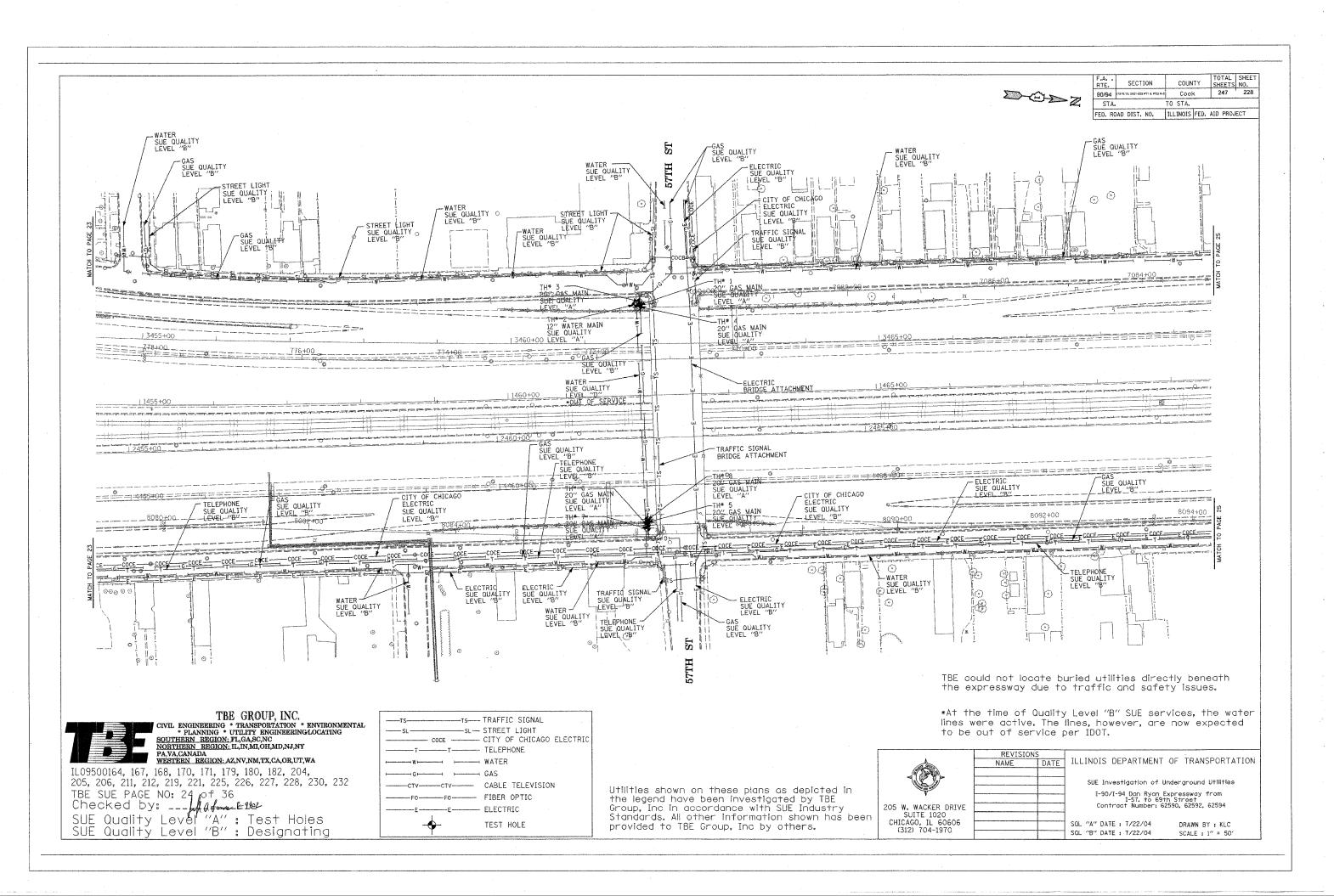
CHICAGO, IL 60606 (312) 704-1970

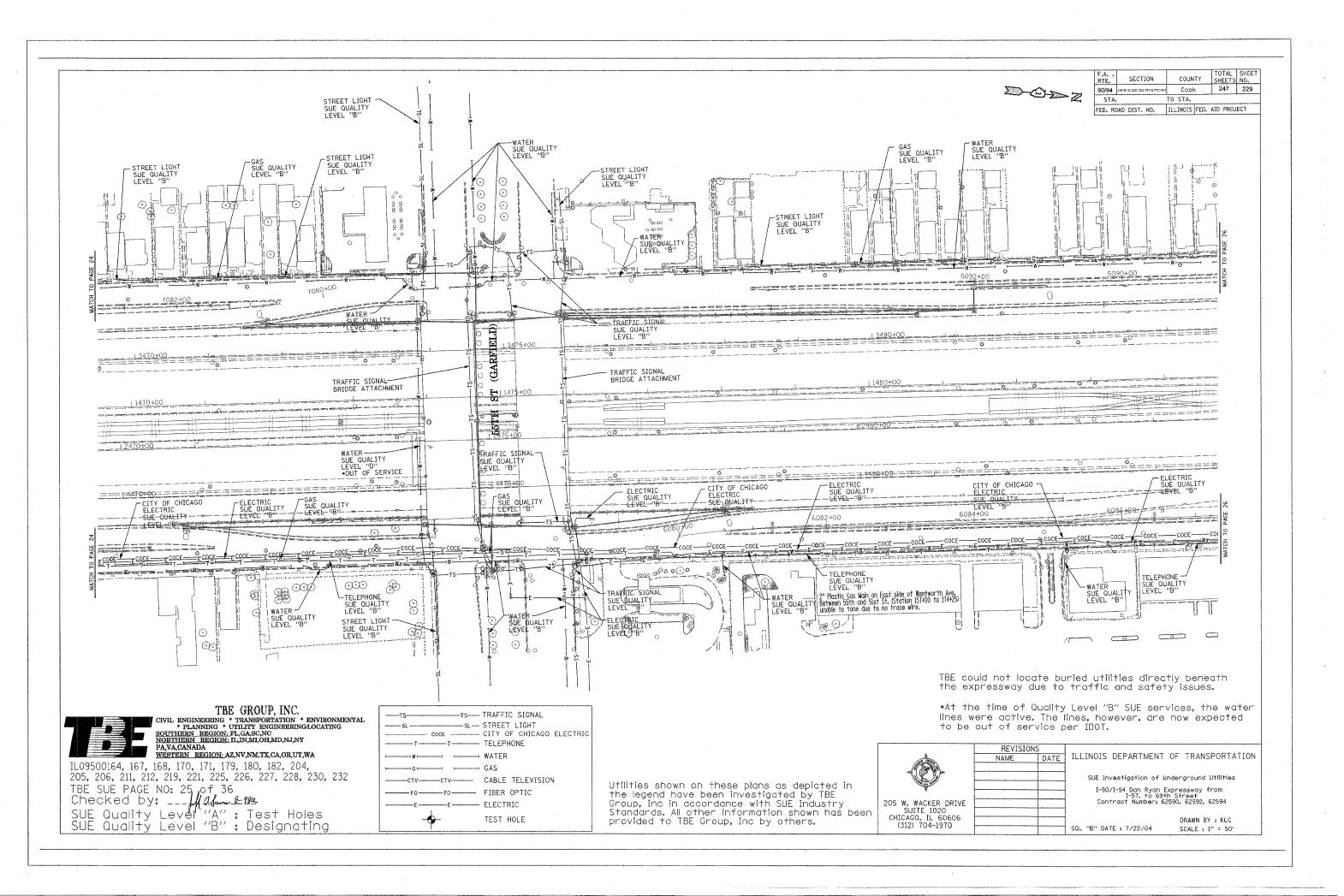
ILLINOIS DEPARTMENT OF TRANSPORTATION

SUE Investigation of Underground Utilities I-90/I-94 Dan Ryan Expressway from I-57, to 69th Street Contract Number: 62590, 62592, 62594

SQL "A" DATE : 7/22/04 SQL "B" DATE : 7/22/04

DRAWN BY : KLC SCALE : 1" = 50'





		VI	ERIFIED UTILI	TY INFORM	MATION						VER	FIED UTIL	TY INFOR	MATION		
TEST HOLE #	SIZE & TYPE	NORTHING	EASTING	TOP OF UTILITY	EXISTING CUT	REFERENCE GROUND ELEVATION	COMMENTS	TEST HOLE #	SIZE &	TYPE	NORTHING	EASTING	TOP OF UTILITY	EXISTING CUT	REFERENCE GROUND ELEVATION	COMMENTS
1	20" G	1867123.035	1175606.560	-1.85	1,50	-0.35	SUE QUALITY LEVEL "A"	23	*42"	E	1863105.310	1175651.280	-0.63'	10.05'	9.42'	SUE QUALITY LEVEL "A"
2	12" W	1867115.884	1175606.924	-1.53	1,13	-0.40	SUE QUALITY LEVEL "A"	24	16"	G	1863097.580	1175669.900	0.15'	4.36'	4.51'	SUE QUALITY LEVEL "A"
3	20" G	1867122.650	1175602.392	-0.08	0.69	0.61	SUE QUALITY LEVEL "A"	25	16"	G	1863097.130	1175661.950	1.09'	5.01'	6.10'	SUE QUALITY LEVEL "A"
4	20" G	1867122.945	1175609.366	-6.36	5.41	-0.95	SUE QUALITY LEVEL "A"	26	16"	G	1863096.690	1175655.260	1.53'	6.63'	8.16'	SUE QUALITY LEVEL "A"
5	20" G	1867132.835	1175901.810	-4.63	3.39	-1.24	SUE QUALITY LEVEL "A"	27	*18"	₿T	1865094.940	1175582.150	0.35'	11.57'	11.92'	SUE QUALITY LEVEL "A"
6	20" G	1867132.928	1175905.856	-2.34	2.74	0.40	SUE QUALITY LEVEL "A"	28	*18"	ВТ	1865097.810	1175578.180	1.03'	12.10'	13.13'	SUE QUALITY LEVEL "A"
7	20" G	1867132.947	1175910.232	0.11	1,93	2.04	SUE QUALITY LEVEL "A"	29	*18"	BT	1865100.160	1175573.950	2.11'	12.35'	14.46'	SUE QUALITY LEVEL "A"
8	20" G	1867132.990	1175897.762	-5.44	3,49	-1.95	SUE QUALITY LEVEL "A"	30	*36"	E	1865099.910	1175578.500	-3.55'	16.71'	13.16'	SUE QUALITY LEVEL "A"
1A	20" G	1861211.910	1177445.200	15.85	3.65	19.50	SUE QUALITY LEVEL "A"	31	*36"	E	1865103.162	1175573.669	-2.89'	17.47'	14.58'	SUE QUALITY LEVEL "A"
2A	8" W	1861211.860	1177441.360	14.70	4.87	19.57	SUE QUALITY LEVEL "A"	32	*36"	E	1865097.615	1175581.930	-3.91'	15.88'	11.97'	SUE QUALITY LEVEL "A"
3A	6" G	1861211.740	1177450.260	15.19	4.18	19.37	SUE QUALITY LEVEL "A"	33	*36"	E	1865124.435	1175973.073	0.82'	13.43'	14.25'	SUE QUALITY LEVEL "A"
4A	6" G	1861598.210	1177437.850	15.50	4.43	19.93	SUE QUALITY LEVEL "A"	34	*18"	BT	1865090.975	1175932.544	-4.41'	6.37'	1.96'	SUE QUALITY LEVEL "A"
5A.	20" G	1861598.200	1177433.420	17.22	2.82	20.04	SUE QUALITY LEVEL "A"	35	*36"	E	1865105.924	1175934.833	-4.59'	7.05'	2.46'	SUE QUALITY LEVEL "A"
6A	8" W	1861597.270	1177429.100	15.66	4.42	20.08	SUE QUALITY LEVEL "A"	36	*36"	E	1865120.467	1175968.691	-0.94'	14.14'	13.20'	SUE QUALITY LEVEL "A"
7A	SEE NOTE	1862113.690	1176035.420		7.29	0.33	SEE NOTE	37	*18"	BT	1865098.448	1175972.477	2.26'	10.37'	12.63'	SUE QUALITY LEVEL "A"
8A	SEE NOTE	1862704.020	1176033.590	-6.74	5.31	-1.43	SUE QUALITY LEVEL "A"	38	*18"	BT	1865095.321	1175968.307	-0.23'	12.22'	11.99'	SUE QUALITY LEVEL "A"
9	16" G	1863104.250	1175969.140	-2.44	4.55	2,11	SUE QUALITY LEVEL "A"	39	See Not	ie G	1873623.853	1175722.432		16.00'	12.60'	CLEARANCE DEPTH
10	16" G	1863104.500	1175976.510	-1.83	5.77	3,94	SUE QUALITY LEVEL "A"	40	20"	G	1873624.086	1175713.696	-6.36'	16.78'	10.42'	SUE QUALITY LEVEL "A"
11	16" G	1863104.750	1175982.670	0.42	5.48	5,90	SUE QUALITY LEVEL "A"	41	20"	G	1873629.270	1175680.376	-10.19'	9.14'	-1.05'	SUE QUALITY LEVEL "A"
12	*42" E	1863114.170	1175968.110	-2.35	4.64	2.29	SUE QUALITY LEVEL "A"	42	20"	G	1873630.734	1175671.020	-12.73'	9.01'	-3.72'	SUE QUALITY LEVEL "A"
13	*42" E	1863114.830	1175975.120	-2.35	6.43	4.08	SUE QUALITY LEVEL "A"	43	20"	G	1873631.833	1175664.164	-13.65'	7.75'	-5.90'	SUE QUALITY LEVEL "A"
14	*42" E	1863116.050	1175983.240	-2.34	9.02	6.68	SUE QUALITY LEVEL "A"	44	20"	G	1873662.688	1175369.141	-3.90'	4.72'	0.82'	SUE QUALITY LEVEL "A"
14A	12" W	1863125.770	1175969.560	-2.99	5.96	2.97	SUE QUALITY LEVEL "A"	45	20"	G	1873663.608	1175361.458	-2.90'	5.76'	2.86'	SUE QUALITY LEVEL "A"
15	2x*18" BT	1863258.330	1175962.750	-6.25	9.98	3.73	SUE QUALITY LEVEL "A"	46	20"	G	1873664.488	1175351.804	-0.50'	5.98'	5.48'	SUE QUALITY LEVEL "A"
16	2X*18" BT	1863256.850	1175970.740	-3.14	9.44	6.30	SUE QUALITY LEVEL "A"	47	20"	G	1873661.260	1175377.470	-4.21'	3.61'	-0.60'	SUE QUALITY LEVEL "A"
17	2x*18" BT	1863255.680	1175981.210	-3.00	12.97	9,97	SUE QUALITY LEVEL "A"	48	*36"	E	1865096.950	1175617.420	-3.95'	5.91'	1.96'	SUE QUALITY LEVEL "A"
18	2x*18" BT	1863254.030	1175661.690	-5.00	8.95	3.95	SUE QUALITY LEVEL "A"	48A	(3)1/2"	UNK	1865098.890	1175616.560	-1.25'	3.20'	1.95'	
19	2x*18" BT	1863252.560	1175654.200	-4.38	11.01	6.63	SUE QUALITY LEVEL "A"	49	20"	G	1873654.520	1175434.880	-6.86'	4.54'	-2.32'	SUE QUALITY LEVEL "A"
20	2x*18" BT	1863250.510	1175644,060	-3.62	13.39	9.77	SUE QUALITY LEVEL "A"		*36"	E	1865097.950	1175663.360	-4.48'	6.85'	2.37'	SUE QUALITY LEVEL "A"
21	*42" E	1863105.180	1175669.260	0.89	3.54	4.43	SUE QUALITY LEVEL "A"		*18"	BT	1865085.150	1175663.290	-5.46'	7.73'	2.27'	SUE QUALITY LEVEL "A"
22	*42" E	1863105.160	1175660.820	-1.00	7.50	6.50	SUE QUALITY LEVEL "A"	52	*18"	ВТ	1865085.030	1175617.240	-4.60'	6.57'	1.97'	SUE QUALITY LEVEL "A"
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TBE Project Information

TH#7A unable to determine object found due to water & soil collapsing.

TH#8A found old wood RR ties laid straight in direction of duct. Could not expose utility, however, SBC confirmed that the duct is directly below RR ties. The existing cut is to top of RR ties.

TH#39 TBE could not physically see gas main. Dug to 16' got electronic depth of 19.5'.

ALL INFORMATION SHOWN WAS OBTAINED FROM A LOCATION SURVEY,

Illinois Department of Transportation

I-90 /94 (NB & SB of Dan Ryan Expressway)

Chicago-Cook County

Sec No: (2122-921 PT1) R, (2021-922 PTI,2)

Contract No. 62586, 62589, 62693, 62694, 62695

TBE Project No.: IL09500164, 167, 168, 170, 171, 179, 180, 182, 204, 205,

206, 211, 212, 219, 221, 225, 226, 227, 228, 230, 232

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	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
	6-15-05	KIC	REMOVE OL "A" FROM TH#48A		1			7										
	0-19-69	D.I.C.	KEMOVE OL "A" PROM TH*46A	1	1								1	1		1 1		
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TBE CROUP, INC.
SOUTHERN REGION: FI, GA, SC, NC
NONTHERN REGION: JA, DA, MD, NJ, NY
PA, VA, CANADA
WEITEN BEGION: AZ, NY, NJ, TX, CA, OR, UT, WA

VERIFIED UTILITY LOCATIONS

^{*} Size given is duct width only.

COMMENTS

SUE QUALITY LEVEL "A" SUE QUALITY LEVEL "A"

CLEARANCE DEPTH ONLY

SUE QUALITY LEVEL "A"

SUE QUALITY LEVEL "A"

SUE QUALITY LEVEL "A"

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SUE QUALITY LEVEL "A" SUE QUALITY LEVEL "A"

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CLEARANCE DEPTH ONLY SUE QUALITY LEVEL "A"

SUE QUALITY LEVEL "A" SUE QUALITY LEVEL "A"

SUE QUALITY LEVEL "A"

SUE QUALITY LEVEL "A" CLEARANCE DEPTH ONLY

SUE QUALITY LEVEL "A"

SUE QUALITY LEVEL "A" SUE QUALITY LEVEL "A"

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SUE QUALITY LEVEL "A"

SUE QUALITY LEVEL "A"

CLEARANCE DEPTH ONLY

SUE QUALITY LEVEL "A"

SUE QUALITY LEVEL "A"

NOT SURVEYED SUE QUALITY LEVEL "A"

REFERENCE

1.00'

-7.26'

6.80'

4.31'

-2.17

-5.35'

6.88' 0.60'

0.49' 0.40'

16.47' -9.25

0.81'

3.12'

-1.39'

14.92'

5.25'

1.83'

4.06'

15,77'

16.80'

0.50'

8.42'

7.85

16.49

1.26'

GROUND ELEVATION -0.96

		VE	RIFIED UTILI	TY INFORI	MATION					VERI	FIED UTILI	TY INFORI	MATION
TEST HOLE #	SIZE & TYPE	NORTHING	EASTING	TOP OF UTILITY	EXISTING CUT	REFERENCE GROUND ELEVATION	COMMENTS	TEST HOLE #	SIZE & TYPE	NORTHING	EASTING	TOP OF UTILITY	EXISTING CUT
53	*18" BT	1865113.010	1175555.020	4.67'	14.33'	19.00'	SUE QUALITY LEVEL "A"	78	*48" E	1841506.430	1177692,980	-8.94'	7.98'
54	See Note E	1865117.050	1175555.790		18.59'	18.99'	CLEARANCE DEPTH ONLY	79	*48" E	1841510.920	1177755,020	-9.22'	10.16'
55	*18" BT	1865108.400	1175989.320	9.85'	9.02'	18.87	SUE QUALITY LEVEL "A"	80	SEE NOTE E	1841493.150	1177753.350	mage-re-area	7.88'
55A	24" SAN	1865109.300	1175987.610	11.77'	7.10'	18.87'	SUE QUALITY LEVEL "A"	81	SEE NOTE E	1852793.298	1177394.984	-11.95'	4.69'
56	*36" E	1865136.380	1175984.770	3.20'	15.68'	18.88'	SUE QUALITY LEVEL "A"	82	*48" E	1863234.932	1175653.520	-0.86'	7.66'
56A	24" SAN	1865138.320	1175986,600	11.93'	6.92'	18.85'	SUE QUALITY LEVEL "A"	83	*48" E	1863235.070	1175661.514	-1.64'	5.94'
57	*18" BT	1865091.120	1175928.050	-5.77'	7.13'	1.36'	SUE QUALITY LEVEL "A"	84	36" W	1839944.740	1178217.900	-5.13'	2,96'
58	*36" E	1865105.640	1175928.120	-4,59'	6.03'	1.44'	SUE QUALITY LEVEL "A"	85	36" W	1839889.120	1178193.100	-13.96'	8.61'
59	*36" E	1865104.390	1175856.480	-4.90'	7.41'	2.51'	SUE QUALITY LEVEL "A"	86	36" W	1839415.910	1178025,040	-1.59'	3.05'
60	*18" BT	1865090.480	1175856.950	-5.29'	7.65'	2.36'	SUE QUALITY LEVEL "A"	87	16" UNK	1839528.800	1178066,220	-8.15'	10.03'
								88	24" TEL	1839826.880	1178316.500	-6.59'	7.19'
MAN HOLE #	TYPE	NORTHING	EASTING	TOP OF UTILITY	EXISTING CUT	REFERENCE MH RIM ELEVATION	COMMENTS	89	SEE NOTE TEL	1839836.600	1178319.800	-5.49'	5.98'
61	Telephone	1863240.510	1175610.790	*1,41'	19.13'	20.54'	SUE QUALITY LEVEL "A"	90	SEE NOTE TEL	1839793.600	1178305,180	***************************************	13.65'
	,			7				91	24" TEL	1844059.140	1177578.380	13.58'	2.89'
TEST HOLE #	SIZE & TYPE	NORTHING	EASTING	TOP OF UTILITY	EXISTING CUT	REFERENCE GROUND ELEVATION	COMMENTS	92	36" W	1839745.710	1178145.690	-18.57'	9.32'
62	*48" E	1876425.900	1176044.730	-6.88'	3.44'	-3,44'	SUE QUALITY LEVEL "A"	93	24" BT	1844060.690	1177635,830	-6.44'	7.25'
63	*48" E	1876427.860	1176056.140	-4.87'	4.14'	-0.73'	SUE QUALITY LEVEL "A"	94	24" BT	1844060.680	1177625.600	-3.42'	6.54'
64	*48" E	1876443.770	1176104.400	4.13'	8.39'	12,52'	SUE QUALITY LEVEL "A"	95	16" W	1839246.750	1178863.580	-6.12'	3,82'
65	*48" E	1863237.110	1175774.930	-1,66'	4.62'	2.96'	SUE QUALITY LEVEL "A"	96	SEE NOTE W	1838928.400	1178898,950		10.80'
66	*48" E	1841495.350	1177598.790	8.42'	7.24'	15.66'	SUE QUALITY LEVEL "A"	97	18" BT				6.12'
67	*48" E	1852792.550	1177384.230	-10.35'	4.37'	-5.98'	SUE QUALITY LEVEL "A"	98	20" BT	1841825.960	1177936.970	6.82'	8.10'
68	*48" E	1852792.730	1177375.900	-8.91'	4.03'	-4.88'	SUE QUALITY LEVEL "A"	99	36" W	1874261.670	1175871.220	-1.10'	3.83'
69	*48" E	1841506.530	1177600.310	7.60'	8.15'	15.75'	SUE QUALITY LEVEL "A"	100	36" W	1874261.650	1175880.560	1.35'	3.90'
70	*48" E	1852792.330	1177435.710	-12.58'	5.65'	-6.93'	SUE QUALITY LEVEL "A"	101	36" W	1874245.970	1175540,410	-2.86'	4.69'
71	*28" E	1841906.380	1177641.010	12.54'	3.46'	16.00'	SUE QUALITY LEVEL "A"	102	36" W	1874245.820	1175531.730	-0.50'	4.56'
72	*48" E	1852791.510	1177336.410	1.83'	7.76	9.59'	SUE QUALITY LEVEL "A"	103	36" W	1874244.500	1175483,430	11.43'	4.34'
73	*48" E	1876423.560	1175920.080	-12.48'	8.82'	-3.66'	SUE QUALITY LEVEL "A"	104	SEE NOTE W	1874262.410	1175925,500	13.62'	3.18'
74	*48" E	1863227.820	1175613.390	8.97'	11.23'	20,20'	SUE QUALITY LEVEL "A"	105	36" W	1874245.260	1175675,910	-2.22'	2.72'
75	*48" E	1841508.250	1177677.360	-7.19'	4.61'	-2.58'	SUE QUALITY LEVEL "A"	106	18" BT	1847350.430	1177491.230	-0.33'	8.75'
76	*48" E	1841493.000	1177684.360	-7.65	4.53'	-3.12'	SUE QUALITY LEVEL "A"	107	SEE NOTE BT	1847365.000	1177775.620	¬y,00	16.79'
77	*48" E	1841492.150	1177692.100	-7.95'	7.02'	-0.93'	SUE QUALITY LEVEL "A"	108	24" BT	1844064.680	1177880.760	6,97'	9.52'
					1			109	36" W	1874248.230	1175729.730	-1.93'	
		TBE	Project Information					100	- TT	10 (4240.200	1140120,100	-T.39	3.19'

* Size given is duct width only.

TH#54 TBE could not reach utility due to depth, Clearance given.

MH#61 Man Hole elevation to top of phone cables exiting man hole.

TH#80 Could not expose utilities due to extremely hard clay. Clearance depth of 7.88' given.

TH#81 Appears to be a 34" poured in place concrete cap over CTA conduit.

TH#87 found a 16" pipe but was unable to see it due to water table. Probed another 3' down past pipe, unable to find 36" w/m electronic Depth 24'

TH#89 Utility not exposed due to excessive water in hole.

TH#90 Utility not exposed, clearance depth of 13.65'.

TH#96 Utility not exposed, clearance depth of 10.80'.

TH#97 Reference point destroyed by construction crews before survey could be completed. Material was unidentifiable.

TH#104 Concrete cap poured over utility. TH#107 Utility not exposed, clearance depth of 16.79'.

ALL INFORMATION SHOWN WAS OBTAINED FROM A LOCATION SURVEY.

Illinois Department of Transportation

I-90 /94 (NB & SB of Dan Ryan Expressway)

Chicago-Cook County

Sec No: (2122-921 PT1) R, (2021-922 PTI,2)

Contract No. 62586, 62589, 62693, 62694, 62695

TBE Project No.: IL09500164, 167, 168, 170, 171, 179, 180, 182, 204, 205,

206, 211, 212, 219, 221, 225, 226, 227, 228, 230, 232

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	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION DATE	BY	DESCRIPTION DATE	BY	DESCRIPTION DATE BY DESCRIPTION	TRE CRAID INC	VERIFIED
	6-15-05	KLC REMOVE	QL "A" FROM TH*87 & 89										DEDUCATION	SOUTHERN EPOSON- PL CA SC NO	
	1							1	· ·					SOUTHERN REGION: FL, GA, SC, NC NORTHERN BEGION: IL, IN, MI, OH, MD, NJ, NY	UTILITY
														FA, VA, CANADA WESTERN REGION: AZ, NV, NM, TX, CA, OR, UT, WA	LOCATIONS
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Jefladon E-980Z

			VE	ERIFIED UTILI	TY INFORM	MATION					VER	IFIED UTILI	TY INFORM	MATION		
TEST HOLE #	SIZE & 7	ГУРЕ	NORTHING	EASTING	TOP OF UTILITY	existing cut	REFERENCE GROUND ELEVATION	COMMENTS	TEST HOLE #	SIZE & TYPE	NORTHING	EASTING	TOP OF UTILITY	EXISTING CUT	REFERENCE GROUND ELEVATION	COMMENTS
110	24"	ВТ	1841825.430	1177895.600	-4.15'	4.72'	0.57'	SUE QUALITY LEVEL "A"	141	8" G	1847360.470	1177779.600	3.77'	4.76'	8.53'	SUE QUALITY LEVEL "A"
111	24"	BT	1841825.960	1177908.730	1.05'	4.44'	5.49'	SUE QUALITY LEVEL "A"	142	18" G	1852731.450	1177624.740	-0.09'	9.49'	9.40'	SUE QUALITY LEVEL "A"
112	SEE NOTE	BT	1844068.060	1177841.750		6.79'	2.89'	CLEARANCE DEPTH ONLY	143	18" G	1852724.450	1177627.310	-1.19'	10.92'	9.73'	SUE QUALITY LEVEL "A"
113	SEE NOTE	BT	1844066.820	1177850.390		8.03'	5.95'	CLEARANCE DEPTH ONLY	144	34" BT	1853977.420	1177596.570	1.18'	8.13'	9.31'	SUE QUALITY LEVEL "A"
114	24"	BT	1847363.280	1177733.270	-13.55'	5.33'	-8.22'	SUE QUALITY LEVEL "A"	145	18" G	1852725.400	1177579.740	-14.03'	6.32'	-7.71'	
115	24"	BT	1847363.890	1177740.570	-12.87'	7.00°	-5.87'	SUE QUALITY LEVEL "A"	146	18" G	1852729.670	1177579.630	-14.36'	6.93'	-7.43	
116	24"	ВТ	1847364.010	1177750.010	-13.15'	10.51'	-2.64'	SUE QUALITY LEVEL "A"	147	18" G	1852729.620	1177588.130	12.06'	7.15'	-4.91'	SUE QUALITY LEVEL "A"
117	24"	BT	1847354.070	1177540.800	-12.62'	4.98'	-7.64'	SUE QUALITY LEVEL "A"	148	18" G	1852725.710	1177589.950	-11.85'	7.38'	-4.47'	SUE QUALITY LEVEL "A"
118	24"	BT	1847354.020	1177532.210	-11.52'	4.52'	-7.00'	SUE QUALITY LEVEL "A"	149	8" G	1847359.120	1177733.980	-13.27'	4.96'	-8.31'	SUE QUALITY LEVEL "A"
119	24"	BT	1841818.360	1177704.030	-6.42'	4.55'	-1.87'	SUE QUALITY LEVEL "A"	150	8" G	1847359.090	1177742.040	-10.62'	5.02'	-5.603	SUE QUALITY LEVEL "A"
120	24"	BT	1841818.190	1177694.600	-5.43'	5.12'	-0.31'	SUE QUALITY LEVEL "A"	151	34" BT	1853976.090	1177565.940	-2.85*	4.64'	1.79'	SUE QUALITY LEVEL "A"
121	24"	E	1844061.030	1177617.950	-1.50'	6.67'	5.17'	SUE QUALITY LEVEL "A"	152	34" BT	1853965.300	1177212.750	1.75'	6.56'	8.31'	SUE QUALITY LEVEL "A"
122	(3) 1"	E	1840742.250	1177446.860	10.93'	4.47'	15.40'	SUE QUALITY LEVEL "A"	153	34" BT	1853967.560	1177268.590	-5.31'	4.54'	-0.77	SUE QUALITY LEVEL "A"
123	(2)2.5"	E	1840753.910	1177452.070	12.73'	2.88'	15.61'	SUE QUALITY LEVEL "A"	154	34" BT	1853974,820	1177507.770	-7.53	5.75'	-1.78'	SUE QUALITY LEVEL "A"
124	2"	BT	1840831.420	1177479.340	13.17*	2.57'	15.74'	SUE QUALITY LEVEL "A"	155	34" BT	1853976,540	1177529.050	-4.24*	5.72'	1.48'	SUE QUALITY LEVEL "A"
125	2"	Е	1840820.710	1177506.720	5.90'	3.01'	8.91'	SUE QUALITY LEVEL "A"	156	34" BT	1853967,230	1177304.800	-5.16'	4.11'	-1.05'	SUE QUALITY LEVEL "A"
126	2"	Е	1840804.920	1177597.800	0.06'	3.54'	3.60'	SUE QUALITY LEVEL "A"	157	30" G	1839844.630	1178297.170	-11.94'	11.58'	-0.363	SUE QUALITY LEVEL "A"
127	(3) 1"	Е	1840788.150	1177588.790	0.28'	3.56'	3.84'	SUE QUALITY LEVEL "A"	158	30" G	1839771.030	1178274.550	-15.29'	6.58'	-8.71'	SUE QUALITY LEVEL "A"
128	2"	E	1840818.210	1177530.500	0.02'	1.85'	1.87'	SUE QUALITY LEVEL "A"	159	30" G	1839779.300	1178277.090	-15.12'	6.55'	-8.5'7'	SUE QUALITY LEVEL "A"
129	2"	E	1840816.460	1177545.960	0.42'	1.74'	2.16'	SUE QUALITY LEVEL "A"	160	N/A G	1839815.630	1178285.320		7.00'	-7.56'	CLEARANCE ONLY
130	SEE NOTE	BT	1839700.920	1178266.540		10.98'	-7.69'	CLEARANCE DEPTH ONLY	161	30" G	1839683.380	1178240.910	-8.79	10.86'	-19.65'	
131	SEE NOTE	BT	1839752.990	1178287.460		11.56'	-8.92'	CLEARANCE DEPTH ONLY	162	N/A G	1839720.200	1178252.850	April 1 march	7.00'	-14.44'	CLEARANCE ONLY
132	18"	G	1852714.050	1177342.550	0.87'	7.94'	8.81'	SUE QUALITY LEVEL "A"	163	30" G	1839633.400	1178223.490	-10.63'	6.14'	-16.77'	
133	18"	G	1852719.380	1177840.460	1.09'	8.36'	9.45'	SUE QUALITY LEVEL "A"	164	30" G	1839624.490	1178220.270	-10.23'	6.61'	-16.84'	
134	.8"	G	1847348.900	1177540.960	-13.64'	6.05'	-7.59'	SUE QUALITY LEVEL "A"								
135	8"	G	1847348.540	1177532.100	-11.04'	4.42'	-6.62'	SUE QUALITY LEVEL "A"					,,			
136	8"	G	1847347.120	1177490.770	1.16'	7.28'	8.44'									
137	18"	G	1852715.850	1177387.130	-13.52'	7.22'	-6.30'	SUE QUALITY LEVEL "A"								
138	18"	G	1852720.360	1177878.410	-11.64'	7.05'	-4.59'	SUE QUALITY LEVEL "A"								
139	18"	G	1852715.890	1177378.870	-10.80'	6.30'	-4.50'	SUE QUALITY LEVEL "A"								
140	18"	G	1852720.130	1177387.470	-13.53'	7.46'	-6.07'	SUE QUALITY LEVEL "A"					ANTHORIS II MARTINIA			

TBE Project Information

TH#112 Utility not exposed, clearance depth of 6.79'.

TH#112 Utility not exposed, clearance depth of 8.79'.

TH#113 Utility not exposed, clearance depth of 10.98'.

TH#130 Utility not exposed, clearance depth of 10.98'.

TH#131 Utility not exposed, clearance depth of 11.56'.

TH#136 Unable to expose utility due to hard clay, probed and felt top and side of utility.

TH#145 & 146 Unable to expose utility due to water table at 3' +/-, but were able to feel the sides and top.

TH#160 & 162 Unable to expose utility due to hard clay, clearance of 7' given.

TH#161 Unable to expose utility due to water, but did feel the pipe.

TH#163 & 164 Unable to expose utility due to water, but did feel top and sides of 30" pipe.

ALL INFORMATION SHOWN WAS OBTAINED FROM A LOCATION SURVEY.

Illinois Department of Transportation

I-90 /94 (NB & SB of Dan Ryan Expressway)

Chicago-Cook County

Sec No: (2122-921 PT1) R, (2021-922 PTI,2)

Contract No. 62586, 62589, 62693, 62694, 62695

TBE Project No.: IL09500164, 167, 168, 170, 171, 179, 180, 182, 204, 205,

206, 211, 212, 219, 221, 225, 226, 227, 228, 230, 232

		R E V ISIO N S														_			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY		DESCRIPTION	TBE GROUP, INC.	VERIFIED
6-15-06	KLC	REMOVE QL *A" FROM TH*136, 145,													-	,		SOUTHERN REGION: FL, GA, BC, NC NORTHERN REGION: IL, IN, MI, OH, MD, NJ, NY	UTILITY
		146, 161, 163 & 164. REMOVED TOP																PA. VA. CANADA	
	1	OF UTILITY FROM TH#160 & 162	1 1						1						1			WESTERN REGION: AZ, NV, NM, TX, CA, OR, U/I, WA	LOCATIONS

VERIFIED UTILITY INFORMATION

TEST HOLE #	SIZE & TY	/PE	NORTHING	EASTING	OFFSET	TOP OF UTILITY	EXISTING CUT	REFERENCE GROUND ELEVATION	COMMENTS
165	24" G		1858583.099	1177452.100	148.05 RT	-2.91'	6.08'	3.18'	SUE QUALITY LEVEL "A
166	24" G		1858582.607	1177422.881	118.82 RT	-7.96'	11.04'	3.08'	SUE QUALITY LEVEL "A
167	24" G		1858581.829	1177388.290	84.23 RT	-11.42'	5.64'	-5.78'	SUE QUALITY LEVEL "A
168	— G		1858576.435	1177169.958	73.59 LT	-14.41'	7.92'	-6.49'	SEE NOTE
169A	G		1858575.515	1177148.755	94.81 LT	-8.73'	5.63'	-3.10'	SEE NOTE
169B	8" —	_	1858574.341	1177148.755	94.81 LT	-7.34'	4.24'	-3.10'	SUE QUALITY LEVEL "A
170	24" G		1858574.341	1177125.527	118.07 LT	1.84'	4.35'	6.19'	SUE QUALITY LEVEL "A
171	24" G		1858573.831	1177107.217	136.38 LT	5.50'	5.82'	11.32'	SUE QUALITY LEVEL "A
172	36" E		1859349.450	1177086.590	133.62 LT	-2.77'	10.34'	7.57'	SUE QUALITY LEVEL "A"
173	36" E		1859349.210	1177115.830	104.39 LT	-5.89'	4.92'	-0.97'	SUE QUALITY LEVEL "A
174	— В	T	1859189.980	1177120.790	104.24 LT	-13.77'	12.58'	-1.19*	SUE QUALITY LEVEL "A
175	— в	T	1859187.890	1177093.060	132,02 LT	SEE NOTE	9.12'	4.53'	CLEARANCE ONLY
176	36" E		1859357.690	1177382.160	100.06 RT	-11.29'	4.45'	-6.84'	SUE QUALITY LEVEL "A
177	— Е		1859358.400	1177405.990	123.90 RT	-10.32'	10.06'	-0.26'	SUE QUALITY LEVEL "A
178	— т		1859198.040	1177390.570	103.95 RT	-21.35'	12.85	-8.50'	SUE QUALITY LEVEL "A
179	— Е		1859345.500	1177059.620	160.69 LT	SEE NOTE	15.15'	16.93'	CLEARANCE ONLY
180	36" G		1851291.10	1177413.23	80.62 LT	-9.95	6.63	-3.32	SUE QUALITY LEVEL "A"
181	36" G		1851290.85	1177418.67	75.19 LT	-9.70	6.38	-3.32	SUE QUALITY LEVEL "A
182	36" G		1851297.11	1177630.28	136.52 RT	-8.83	5.89	-2.94	SUE QUALITY LEVEL "A
MAN HOLE #									
183	24" G		1851285.94	1177708.75	45.04 RT	4.76	4.16	8.92	Elev. taken from RIM of MH.
184	12" G		1851278.82	1177708.69	44.77 RT	4.39	4.52	8.91	Elev. taken from RIM of MH.
TEST HOLE #	SIZE & TY	YPE	NORTHING	EASTING	OFFSET	TOP OF UTILITY	EXISTING CUT	REFERENCE GROUND ELEVATION	COMMENTS
185	72" B	T	1877424.23	1176032.38	61.60 LT	-3.79	2.70	-1.09	SUE QUALITY LEVEL "A
186	66" B	T	1877416.11	1175712.30	66.43 RT	-8.51	5.85	-2.66	SEE NOTE

TH #168 Unable to see gas due to ground water.

TH #169A Unable to see gas due to back fill continually caving in.

TH #174 We were unable to determine size due to ground water in the hole.

TH #175 Attempt was made to expose phone duct but were unsuccessful due to extreme heavy compacted clay, we were only able to reach 9.12'

TH #179 Attempt was made to find electric duct. Went down 15.15' & 2.5' radius of Reference Point.

TH #186 Unable to expose due to mud and ground water, felt top and sides.
TH #187 Unable to expose due to wet sand collapsing in hole..
TH #189 - Offset is taken from N. bound Dan Ryan fence line..

TH #190 - Unable to expose due to soil collapsing in hole

TH #192 - Telephone was buried/trenched underneath a slab of concrete with rough edges; width was 48"

TH #195 - Unable to expose due to deep roots in hole

TH #200 - Felt both sides of gas line but unable to cover completely for picture, doing so would

leave a void in soil because of angle of ground level. Back fill kept falling from uphill.

TH #204 - Found the utilities for the street lights at about 2' deep. Offset pulled from CL of Dan Ryan on ramp.

TH #207 - Could not expose due to collapsing sand. Had a good feel with the air lance. Offset taken from CL of exit ramp

TH #215A - TBE could not find electric crossing, vacumed down 13'.

VERIFIED UTILITY INFORMATION

	TEST HOLE #	SIZE & TYPE	NORTHING	EASTING	OFFSET	TOP OF UTILITY	EXISTING CUT	REFERENCE GROUND ELEVATION	COMMENTS
	187	— W	1880442.920	1175949.580	65.37' RT	3.59'	8.43'	12.02'	SEE NOTE
	188	16" BT	1880464.590	1175947.690	64.06' RT	6.63'	5.31'	11.94'	SUE QUALITY LEVEL "A"
	189	24" W	1880443.800	1175999.780	115.57' RT	7.85'	7.83'	15.68'	SUE QUALITY LEVEL "A"
	190	— W	1880442.870	1175973.130	88.91' RT	3.81'	10.10'	13.91'	SEE NOTE
	191	16" BT	1880465.830	1175973.580	89.98' RT	9.59'	4.42'	14.01'	SUE QUALITY LEVEL "A"
	192	16" BT	1880464.890	1175999.080	115.44' RT	10.21'	5.35'	15.56'	SUE QUALITY LEVEL "A"
	193	16" BT	1880456.000	1175630.210	61.54' LT	5.65'	8.94'	11.59'	SUE QUALITY LEVEL "A"
	194	16" BT	1880454.690	1175603.520	88.25' LT	5.44'	8.66'	14.10'	SUE QUALITY LEVEL "A"
	195	— ВТ	1880453.540	1175575.610	116.18' LT	4.75'	12.13'	16.88'	SEE NOTE
	196	24" W	1880435.180	1175604.240	88.06' LT	6.76'	7.24'	14.00'	SUE QUALITY LEVEL "A"
	197	24" W	1880435.160	1175579.320	112.97' LT	11.06'	5.48'	16.54'	SUE QUALITY LEVEL "A"
	198	36" G	1883748.370	1175516.740	86.01' LT	1.10'	7.08'	8.18'	SUE QUALITY LEVEL "A"
	199	36" G	1883747.800	1175488.980	113.78' LT	6.36'	8.62'	14.98'	SUE QUALITY LEVEL "A"
	200	36" G	1883758.000	1175883.780	89.15' RT	-1.07'	5.96'	4.89'	SUE QUALITY LEVEL "A"
	201	36" G	1883758.190	1175903,970	109.34'RT	4.06'	6.58'	10.64'	SUE QUALITY LEVEL "A"
	202	36" W	1883741.550	1175904.750	109.67'RT	4.82'	5.74'	10.56'	SUE QUALITY LEVEL "A"
	203	36" W	1883730.260	1175489.640	113.59' LT	8.72'	6.25'	14.97'	SUE QUALITY LEVEL "A"
	204	36" W	1883731.680	1175518.680	84.53' LT	1.69'	5.90'	7.59'	SUE QUALITY LEVEL "A"
	205	36" W	1883740.460	1175883.620	88.52' RT	-3.96'	8.26'	4.30'	SUE QUALITY LEVEL "A"
	206	36" W	1883731.390	1175553.040	50.19'LT	-5.51'	6.13'	0.62'	SUE QUALITY LEVEL "A"
	207	BT	1884487.410	1175842.900	67.99' RT	-6.61'	2.98'	-3.63'	SEE NOTE
	208	24" W	1880435.060	1175628.960	63.35' LT	3.08'	8.72'	11.80'	SUE QUALITY LEVEL "A"
	209	36" G	1883749.960	1175552.500	50.22' LT	-5.24'	5.99'	0.75'	SUE QUALITY LEVEL "A"
	210	36" G	1883756.720	1175845,280	50.63' RT	-6.85'	8.42'	1.566'	SUE QUALITY LEVEL "A"
	211	36" W	1883739.550	1175839,290	44.18' RT	-5.25'	5.86'	0.606'	SUE QUALITY LEVEL "A"
	212	18" BT	1884480.420	1175521.840	61.14' LT	-7.58'	4.95'	-2.634'	SUE QUALITY LEVEL "A"
	213	18" BT	1884480.320	1175509.110	73.87' LT	-3.89'	4.91'	1.019'	SUE QUALITY LEVEL "A"
	214	20" BT	1884487.060	1175860.740	85.82' RT	-0.82'	3.19'	2.370'	SUE QUALITY LEVEL "A"
	215	(1)2" (3).25" SL	1879776.080	1175973.630	71.39' RT	2.91'	4.08'	6.995'	SUE QUALITY LEVEL "A"
	215A	SEE NOTE	1879798.750	1175970.990	69.36' RT	SEE NOTE	13.00'	7.040'	SEE NOTE

Illinois Department of Transportation

I-90 /94 (NB & SB of Dan Ryan Expressway)

Chicago-Cook County

Sec No: (2122-921 PT1) R, (2021-922 PTI,2)

Contract No. 62584, 62585, 62586, 62589, 62693, 62694, 62695

TBE Project No.: IL09500164, 167, 168, 170, 171, 179, 180, 182, 204, 205,

206, 211, 212, 219, 221, 225, 226, 227, 228, 230, 232, 238

ALL INFORMATION SHOWN WAS OBTAINED FROM A LOCATION SURVEY.

	R E V 1910 N S																
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/4/05	500	Hac															



VERIFIED UTILITY LOCATIONS

