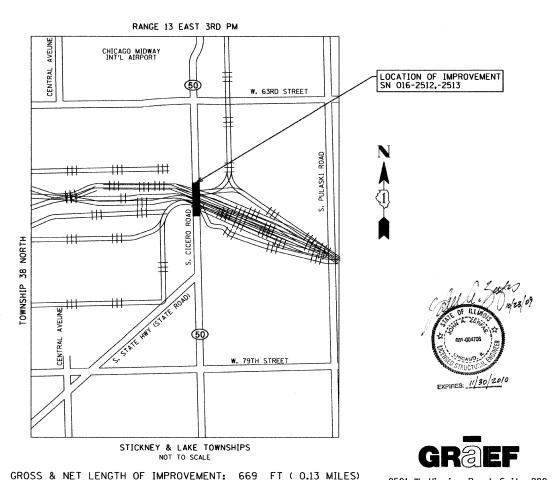
STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 350: IL 50 (CICERO AVE) SECTION: 50-1 VB-1-BR **OVER BRC RR (SN 016-2512, -2513) BRIDGE JOINT RECONSTRUCTION AND SUBSTRUCTURE REPAIRS COOK COUNTY** C-91-789-09



8501 **W.** Higgins Road; Suite 280 Chicago, Illinois 60631 (773) 399-0112

COUNTY SHEETS NO 50-1 VB-1-BR

D-91-789-09



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA

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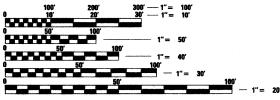
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EXISTING ADT =47,900 TO 61,000 (2007) POSTED SPEED LIMIT = 35 MPH

THE PROJECT IS LOCATED IN THE CITY OF CHICAGO AND IN THE VILLAGE OF BEDFORD PARK.



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811 D.I.G.G.E.R. FOR EXCAVATION IN THE CITY OF CHICAGO AT 1-312-744-7000

PROJECT ENGINEER: ROBERT BORO (IDOT) (847) 705-4178 PROJECT MANAGER: KEN ENG (IDOT) 847-705-4247

CONTRACT NO. 60H76



INDEX OF SHEETS

SHEET DESCRIPTION

- 1 COVER SHEET
- 2 INDEX, GENERAL NOTES AND HIGHWAY STANDARDS
- 3 SUMMARY OF QUANTITIES
- 4-9 MAINTENANCE OF TRAFFIC SHEETS
- 10-11 PAVEMENT MARKING PLANS
- 12-27 BRIDGE REPAIR PLANS
- 28 TRAFFIC CONTROL AND PROTECTION FOR SIDEROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)
- 29 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11)
- 30 DISTRICT ONE PAVEMENT MARKINGS (TC-13)
- 31 TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
- 32 PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC16)
- 33 TEMPORARY INFORMATION SIGNING (TC22)

HIGHWAY STANDARDS

STD. NO. TITLE

701426-03 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION FOR SPEEDS ≥ 45 MPH

701601-26 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN

701801-04 LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE

701901-01 TRAFFIC CONTROL DEVICES

704001-00 TEMPORARY CONCRETE BARRIER

780001-02 TYPICAL PAVEMENT MARKINGS

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 OR 811 OR CALL "C.U.A.N." (CHICAGO UTILITY ALERT NETWORK) AT (312 744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED).

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF CHICAGO AND THE VILLAGE OF BEDFORD PARK

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILTY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM 72 HOURS PRIOR TO BEGINNING WORK.

MATCH EXISTING PAVEMENT MARKINGS AT PROJECT LIMITS.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS

THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO INSURE THAT NO DEBRIS WILL ENDANGER OR INTERFERE WITH THE RAILROAD BENEATH THE BRIDGE ACCORDING TO ARTICLE 107.12 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL NOT BE PAID FOR SEPERATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPOPRIATE PAY ITEM INVOLVED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

CONCRETE SUPERSTRUCTURE SHALL HAVE A SEVEN DAY MINIMUM CURE.

THERE IS EXISTING CONDUIT FOR FIBER OPTIC SIGNAL INTERCONNECT MOUNTED TO THE PARAPET ON THE WEST SIDE OF THE SOUTHBOUND BRIDGE. THE CONTRACTOR MUST PROTECT THIS CONDUIT AT ALL TIMES DURING CONSTRUCTION AND MUST USE EXTREME CARE WHILE REMOVING PORTIONS OF THE CONCRETE PARAPET FOR JOINT REPLACEMENT. THE CONDUIT MUST BE RIGIDLY SUPPORTED AT ALL TIMES IN ORDER TO MINIMIZE DEFLECTION AND MOVEMENT (SWAYING).

THE CITY OF CHICAGO HAS A 2" STREET LIGHTINGING CONDUIT EMBEDDED IN THE PARAPET ON THE WEST SIDE OF THE SOUTHBOUND BRIDGE AND ON THE EAST SIDE OF THE NORHTBOUND BRIDGE. CARE SHALL BE TAKEN NOT TO DAMEAGE CONDUIT DURING CONSTRUCTION.

REMOVAL OF EXISTING RAISED REFLECTIVE MARKER LENSES SHALL BE INCIDENTAL TO PAVEMENT MARKING REMOVAL AND WILL NOT BE PAID FOR SEPARARELY.

DESIGNED - RS USER NAME = _USER_ REVISED . DRAWN - EF REVISED -CHECKED -PLOT SCALE = 50.0000 '/ IN. REVISED -PLOT DATE = 10/30/2009 DATE - 10/23/09 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SCALE:

IL 50 (CICERO AVENUE) INDEX OF SHEETS AND GENERAL NOTES SHEET NO. OF SHEETS STA.

SECTION COUNTY COOK 33 2 50-1 VB-1-BR CONTRACT NO. 60H76

FILE NAME =

	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	SFTY-2A STATE
	50102400	CONCRETE REMOVAL	CU YD	77	77
	50300255	CONCRETE SUPERSTRUCTURE	CUYD	78	78
	50300300	PROTECTIVE COAT	SQ YD	111	111
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	15,040	15,040
	50800515	BAR SPLICERS	EACH	74	74
	52000110	PREFORMED JOINT STRIP SEAL	FOOT	159	159
	52000340	NEOPRENE EXPANSION JOINT 4"	FOOT	54	54
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
	67100100	MOBILIZATION	L SUM	1	1
	70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	2,589	2,589
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	988	988
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	988	988
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	36	36
#	78000200	THERMOPLASTIC PAVEMENT MARKING -LINE 4"	FOOT	1,728	1,728
*	78000400	THERMOPLASTIC PAVEMENT MARKING -LINE 6"	FOOT	140	140
*	78100300	REPLACEMENT REFLECTOR	EACH	50	50
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	682	682
	X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	102	102
	X0322933	SILICONE JOINT SEALER, 2.5"	FOOT	51	51
	X0320887	POLYMER CONCRETE	CU FT	5. 3	5.3
	X0323076	SILICONE JOINT SEALER, 1 3/4"	FOOT	53	53
	X0323077	SILICONE JOINT SEALER, 2 3/4"	FOOT	51	51
	X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	447	447
	X0325775	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4 INCH	FOOT	6,964	6,964
	X0325837	WET REFLECTIVE TEMPORARY TAPE TYPE III, 6 INCH	FOOT	394	394
	X0325842	WET REFLECTIVE TEMPORARY TAPE, TYPE III, LETTERS AND SYMBOLS	SQ FT	73	73
	X0325737	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2	2
	Z0010605	CLEANING DRAINAGE SYSTEM	L SUM	1	1
	Z0030240	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	EACH	2	2
	Z0030340	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2	EACH	2	2
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1
	Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	4	4

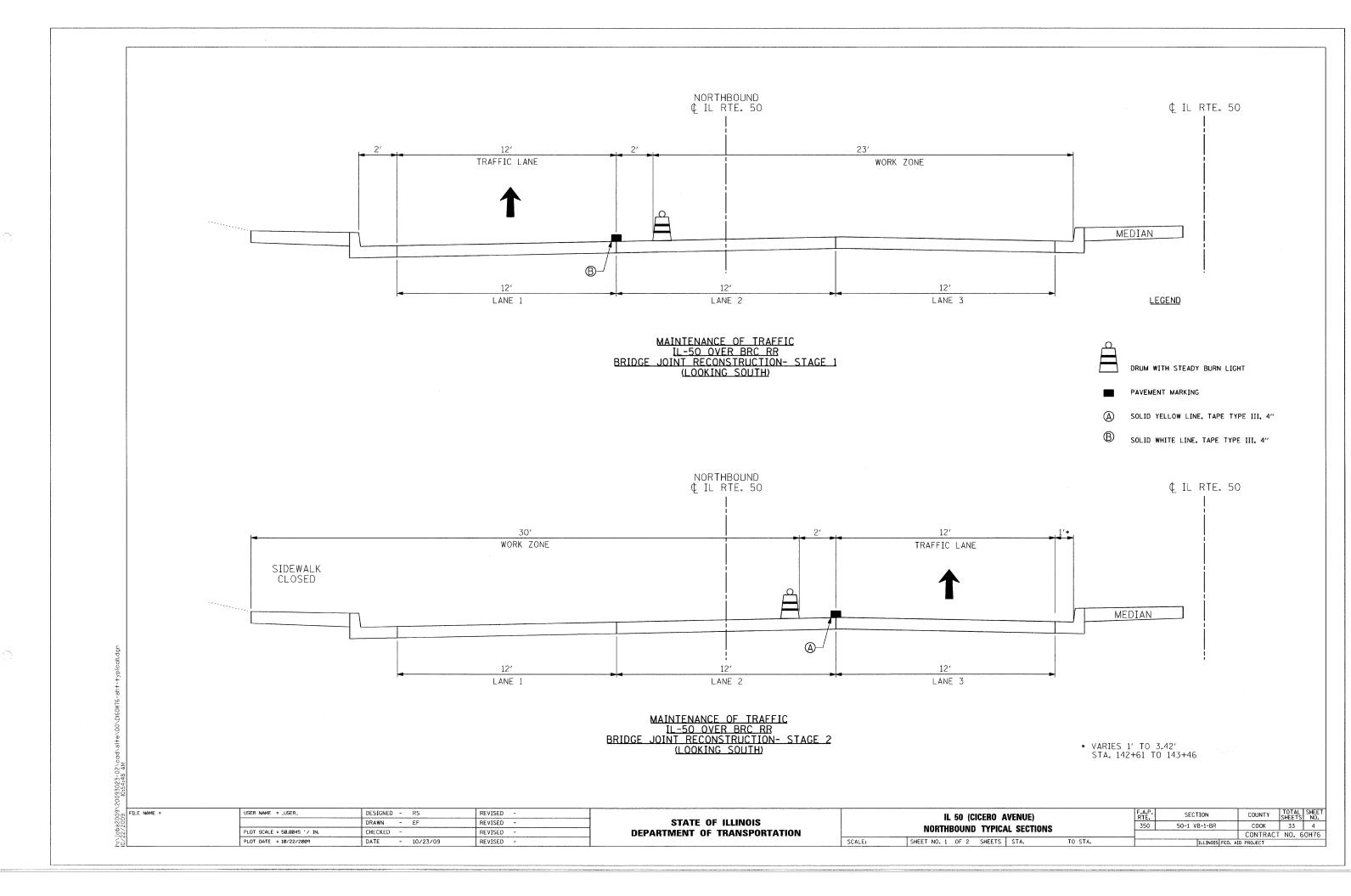
DENOTES SPECIALTY ITEM

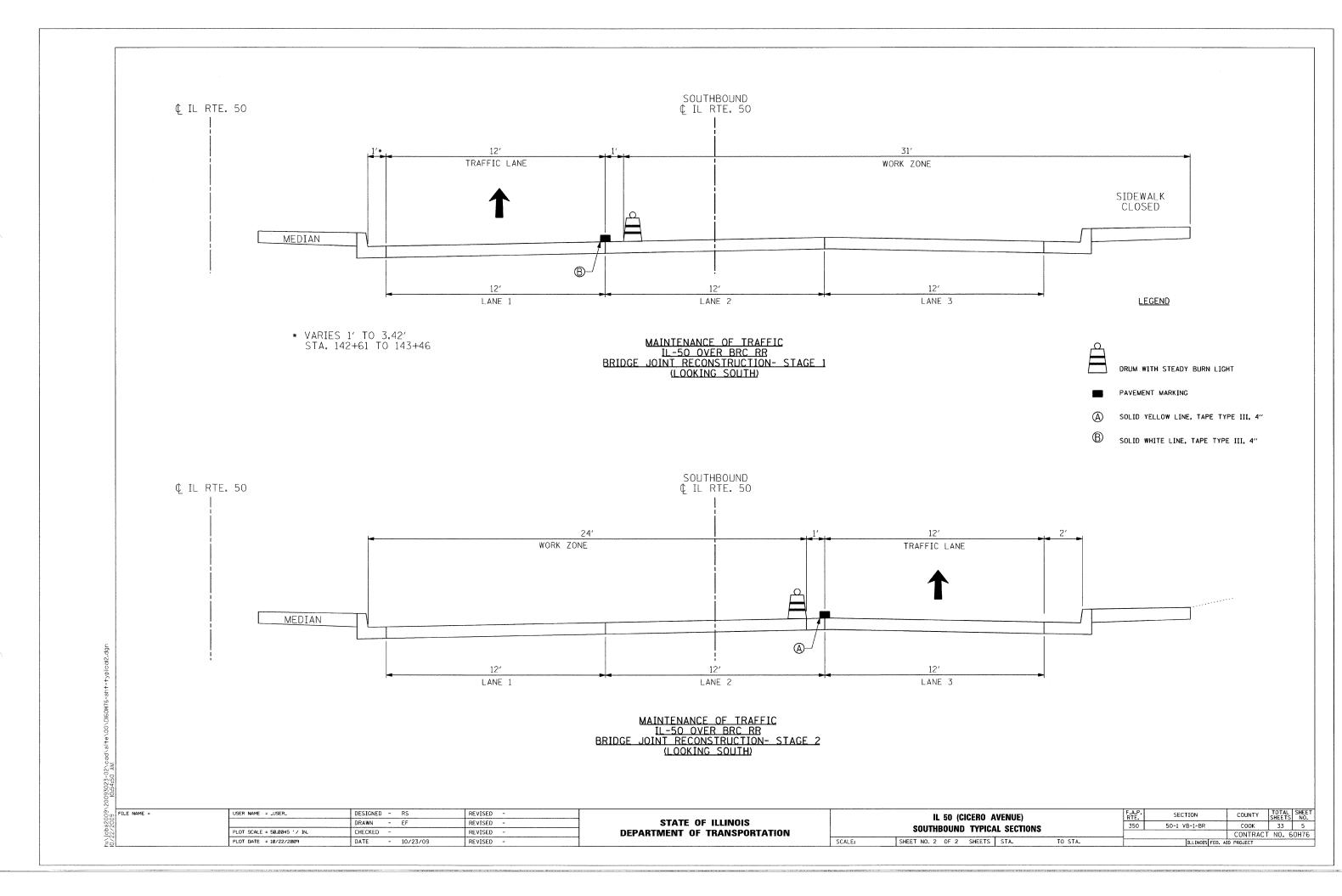
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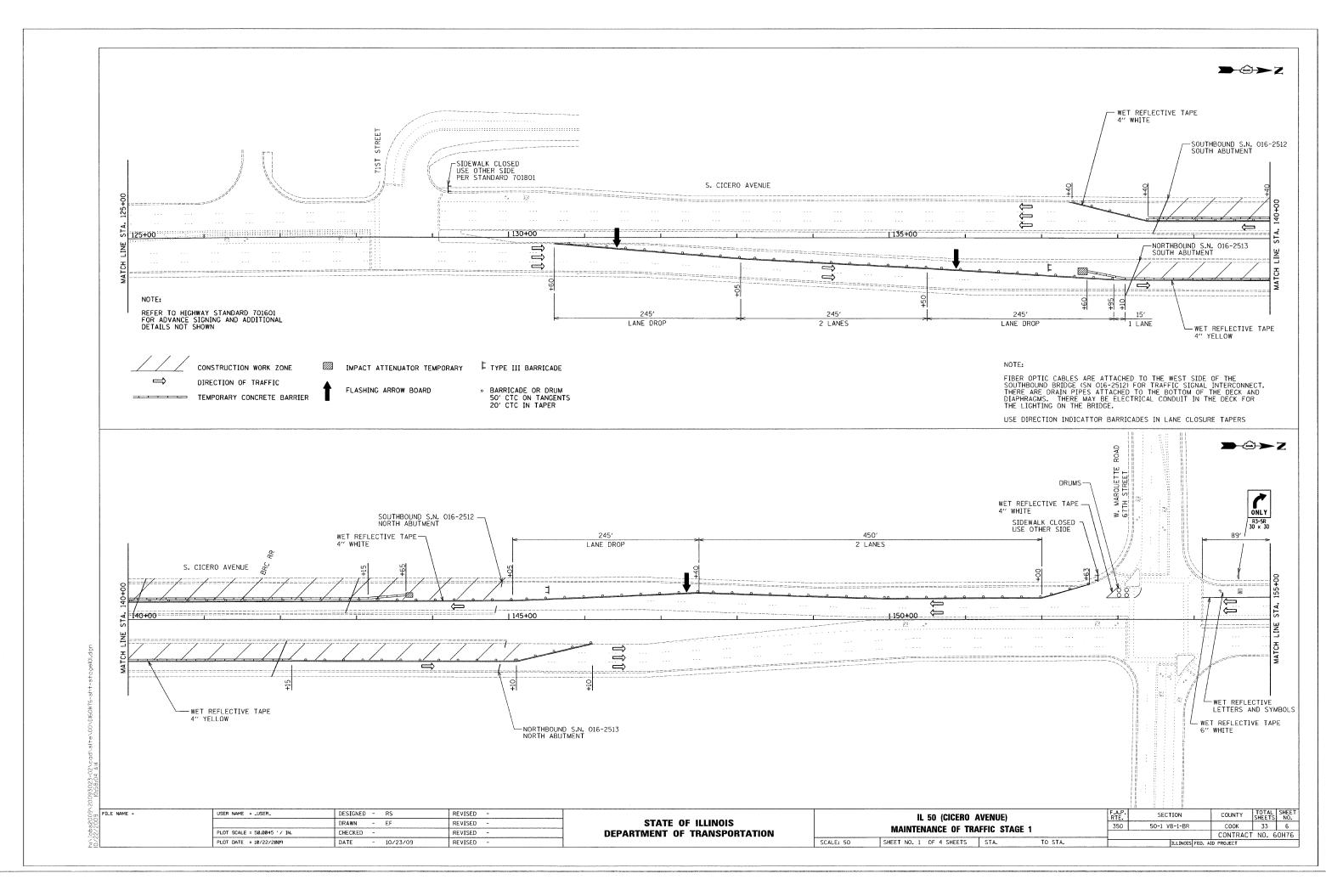
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

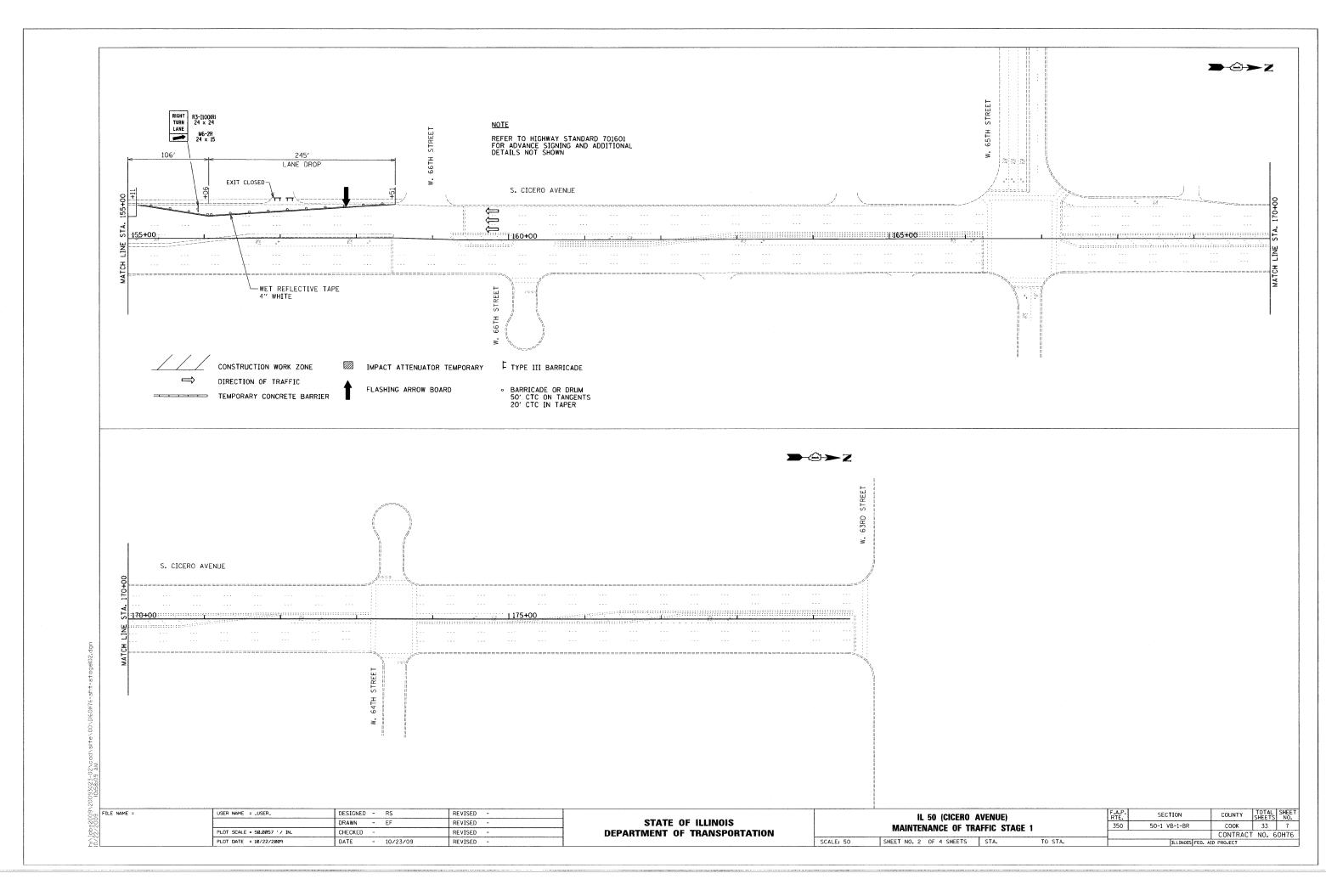
,	IL 50 (CICERO AVENUE) SUMMARY OF QUANTITIES					
SCALE:	SHEET		OF	SHEETS	STA.	TO STA.

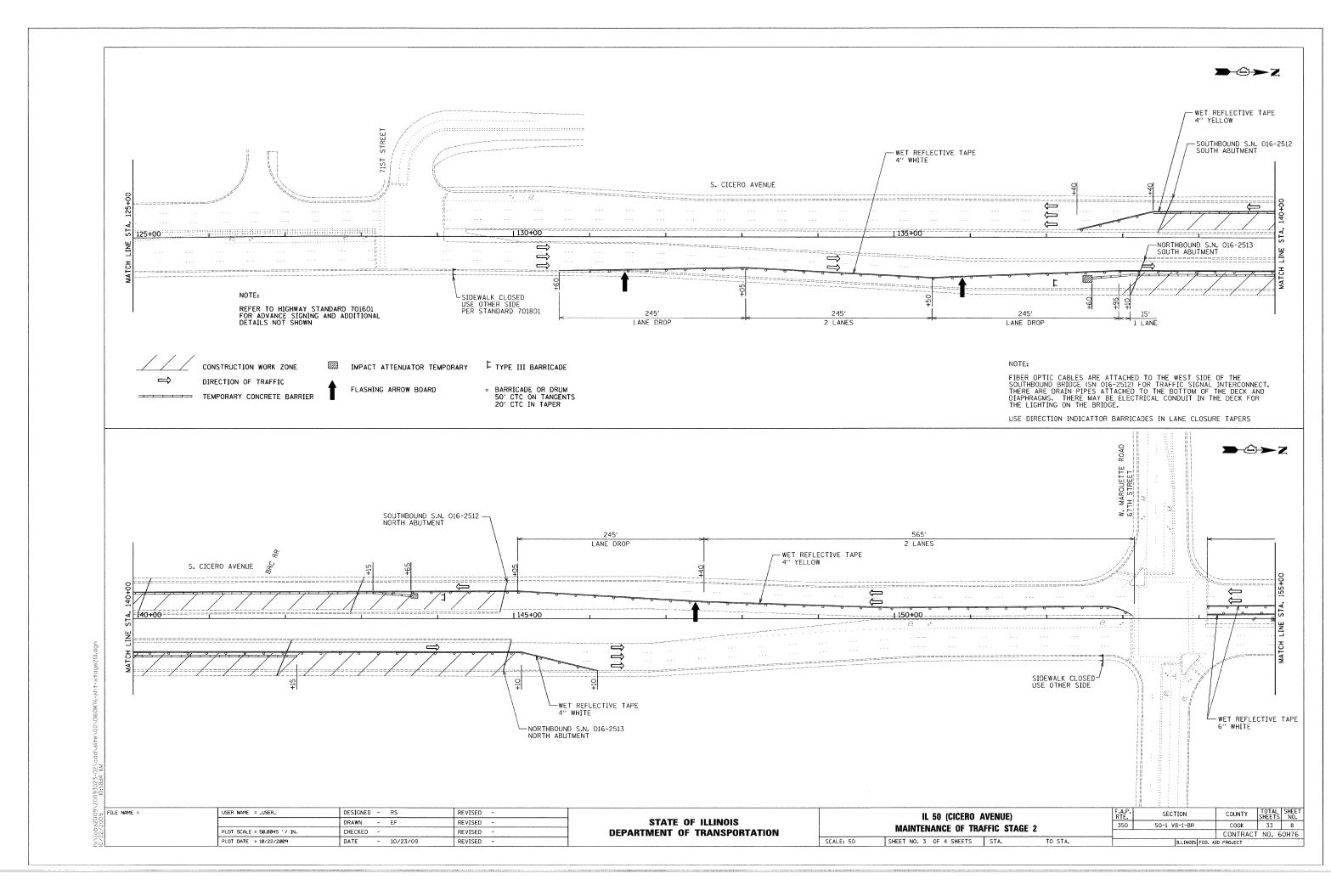
			F	Per.			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
350	50-1 VB-1-BR	COOK	33	3			
CONTRACT NO. 60H76							
ILLINOIS FED. AID PROJECT							

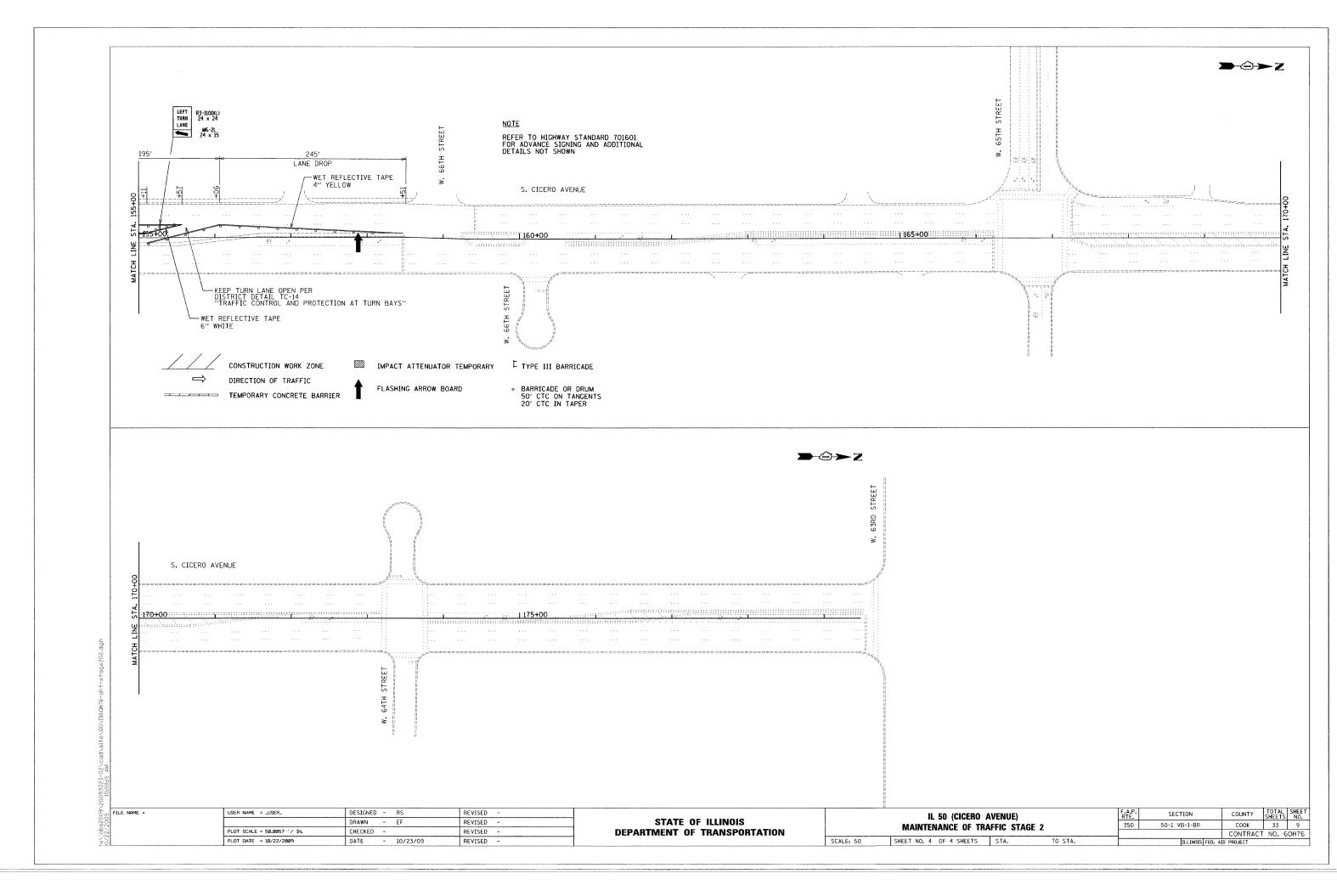


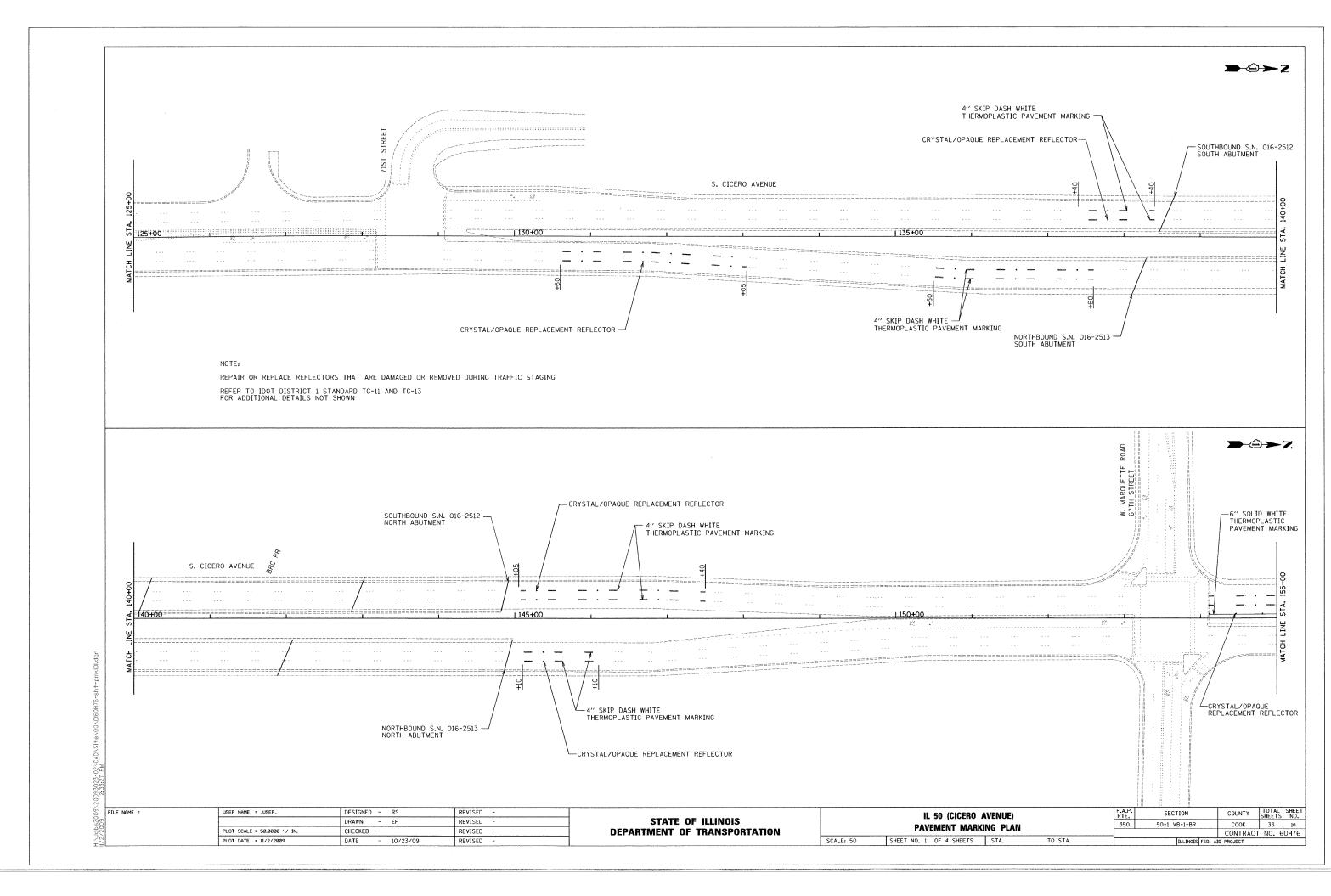


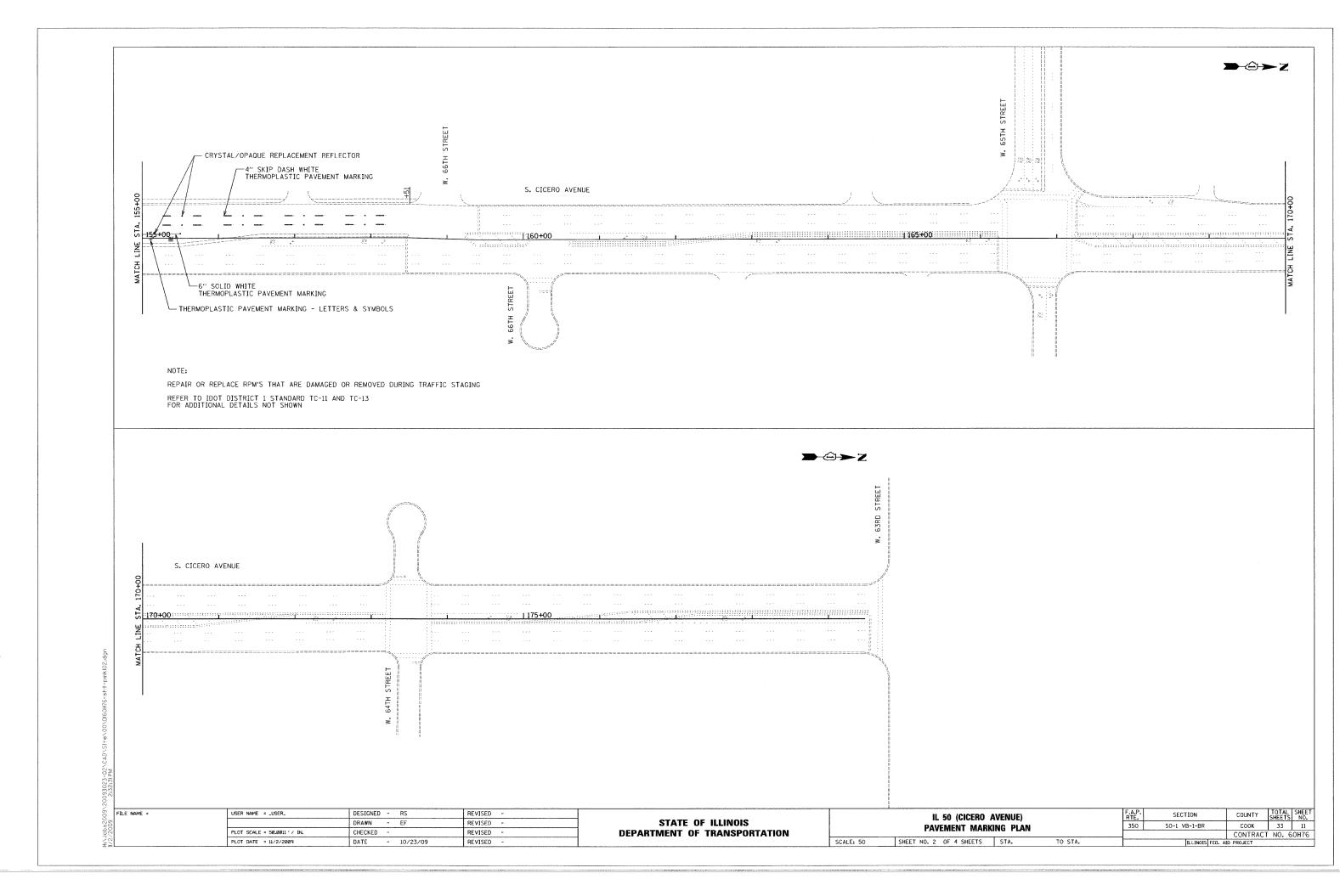


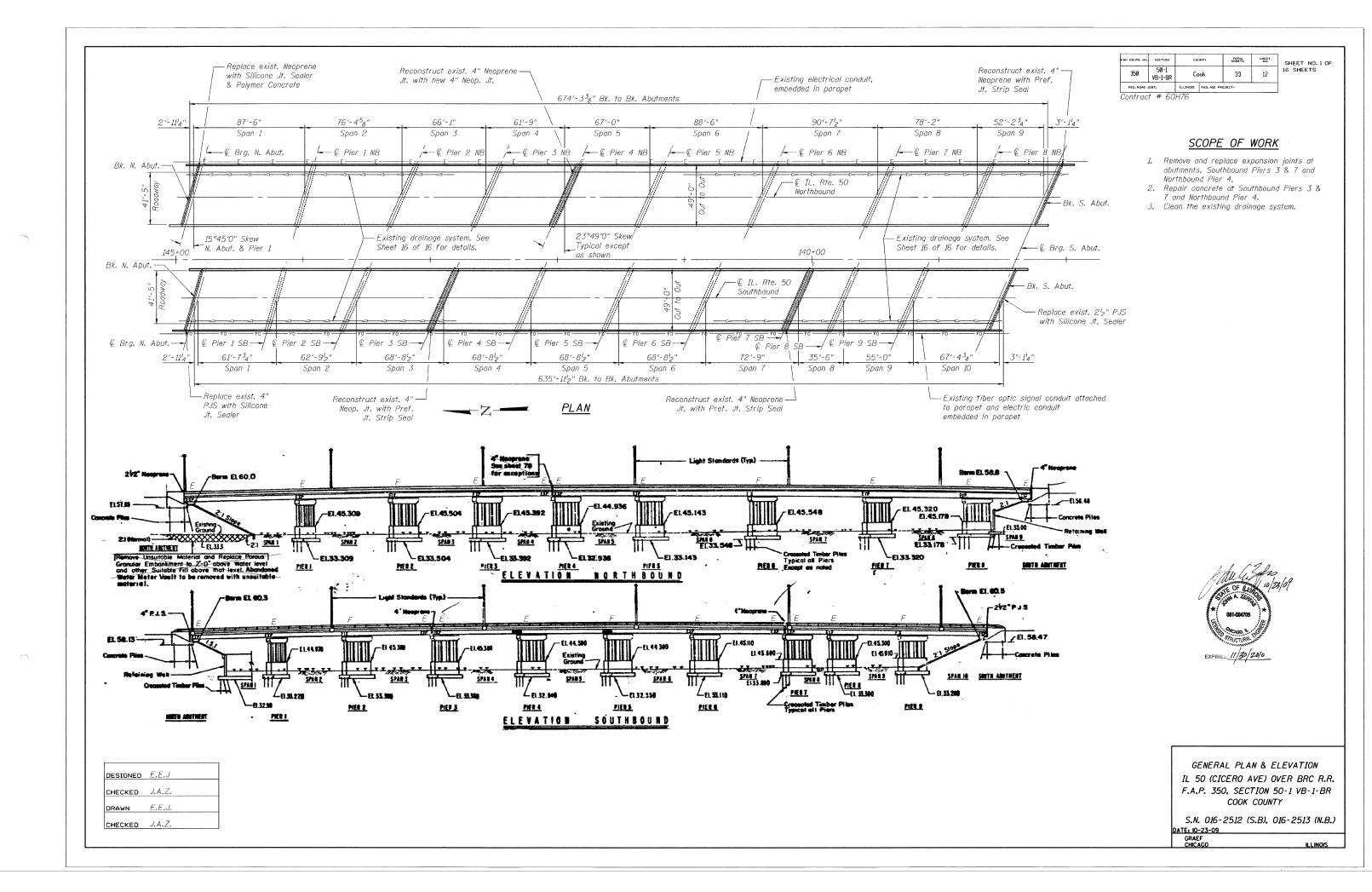












FAP ROUTE NO.	SECTION	COL	UNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. :
350	50-1 VB-1-BR	Сс	ook	33	13	16 SHEETS
FED. ROAD DIST.		ILLINOIS	FED. AND PR	OJECT-		

Contract # 60H76

GENERAL NOTES

- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60. See Special Provisions.
- 2. Reinforcement bars designated (E) shall be epoxy coated.
- 3. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- 4. At SB Piers 3 and 7, NB Pier 4 and the NB South Abutment, existing guardrail and/or railings are attached to the parapets in areas where concrete is to be removed. The cost to disconnect and reconnect the guardrail and railings shall be included in the cost of Concrete Removal. If the embedded anchorages for the railings are damaged during concrete removal, the Contractor shall furnish and install new anchorages to match the existing and the cost shall also be included in the cost of Concrete Removal.
- 5. Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
- 6. The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beam.
- 7. The deck surface shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with Concrete Superstructures.
- 8. Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.

TOTAL BILL OF MATERIAL

Item	Unit	Total	SB	NB
Concrete Removal	CU YD	77	42	35
Concrete Superstructure	CU YD	78.0	42.8	35.2
Protective Coat	SQ YD	111	60	51
Reinforcement Bars, Epoxy Coated	POUND	15,040	8,400	6,640
Bar Splicers	EACH	74	40	34
Preformed Joint Strip Seal	FOOT	159	106	53
Neoprene Expansion Joint 4"	FOOT	54	-	54
Silicone Joint Sealer, 2.5"	FOOT	51	-	51
Polymer Concrete	CU FT	5.3	-	5.3
Silicone Joint Sealer, 1 ³ ₄ "	FOOT	53	53	-
Silicone Joint Sealer, 2 ³ 4"	FOOT	51	51	-
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	SQ FT	447	316	131
Cleaning Drainage System	L SUM	1	-	-
Temporary Shoring and Cribbing	EACH	4	3	1

INDEX OF SHEETS

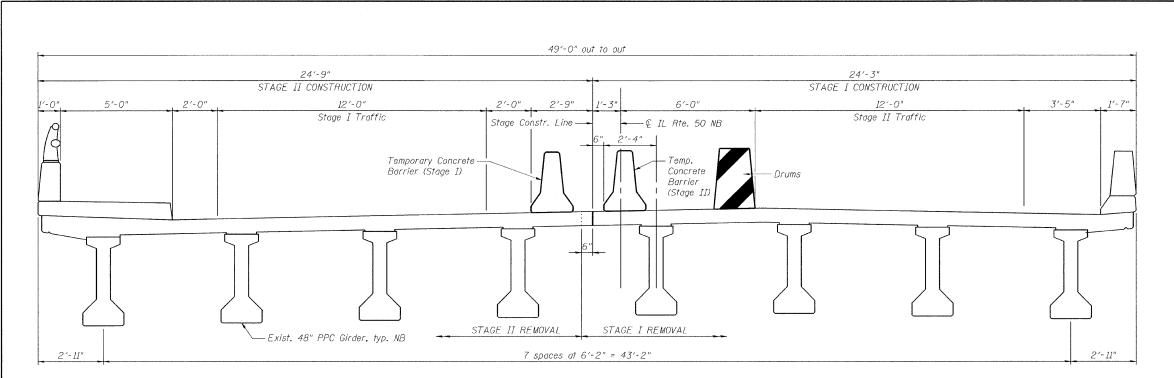
- 1. GENERAL PLAN & ELEVATION
- 2. GENERAL NOTES & TOTAL BILL OF MATERIAL
- 3. CONSTRUCTION STAGING
- 4. EXPANSION JOINTS, SB ABUTMENTS & NB NORTH ABUTMENT
- 5. EXPANSION JOINT, NB SOUTH ABUTMENT
- 6. EXPANSION JOINTS, SB PIERS 3 & 7
- 7. PREFORMED JOINT STRIP SEAL
- 8. EXPANSION JOINT, NB PIER 4
- 9. CONTINUOUS SEAL 4" NEOPRENE EXPANSION JOINTS
- 10. EXPANSION JOINT BILLS OF MATERIAL
- 11. SB PIER 3 REPAIRS
- 12. SB PIER 7 REPAIRS
- 13. NB PIER 4 REPAIRS
- 14. BAR SPLICER ASSEMBLY DETAILS
- 15. RAILING
- 16. DRAINAGE SYSTEM

GENERAL NOTES & TOTAL BILL OF MATERIAL IL 50 (CICERO AVE) OVER BRC R.R. F.A.P. 350, SECTION 50-1 VB-1-BR COOK COUNTY

S.N. 016-2512 (S.B), 016-2513 (N.B.) DATE: 10-23-09

ILLINOIS

DESIGNED E.E.J CHECKED J.A.Z. DRAWN E.E.J. CHECKED J.A.Z.

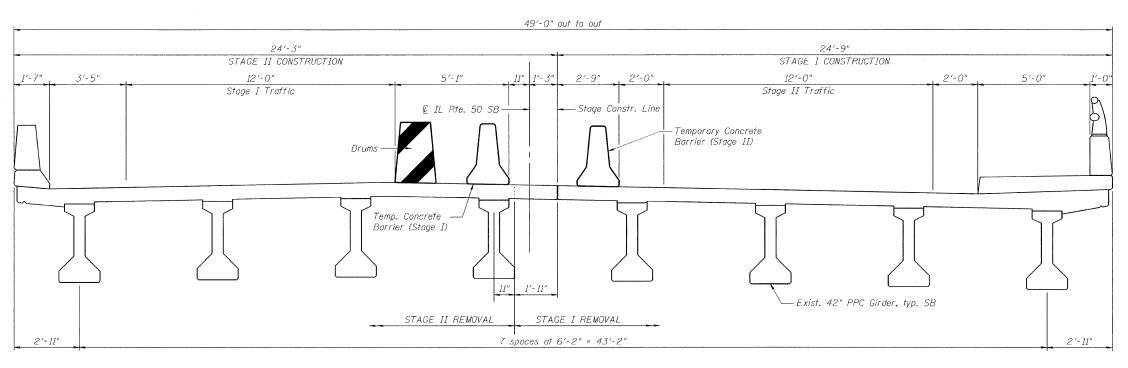


350 SECTION 50-1 VB-1-BR SHEET NO. 3 OF 16 SHEETS Cook 33 14

Contract # 60H76

NORTHBOUND DECK CROSS SECTION

(Looking South)



SOUTHBOUND DECK CROSS SECTION

(Looking South)

CONSTRUCTION STAGING IL 50 (CICERO AVE) OVER BRC R.R. F.A.P. 350, SECTION 50-1 VB-1-BR COOK COUNTY

S.N. 016-2512 (S.B), 016-2513 (N.B.) DATE: 10-23-09 ILLINOIS

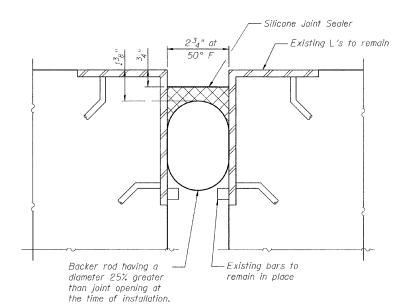
DRAWN E.E.J. CHECKED J.A.Z.

DESIGNED E.E.J

CHECKED J.A.Z.

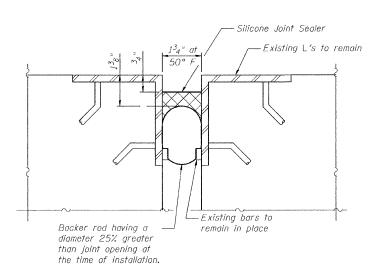


Contract # 60H76



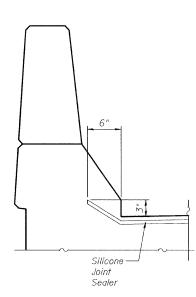
SB, N. ABUTMENT EXPANSION JOINT

(Horiz. dimensions at Rt. L's)
Note: Remove existing preformed joint sealer.
Cost included with Silicone Joint Sealer, 2³4"

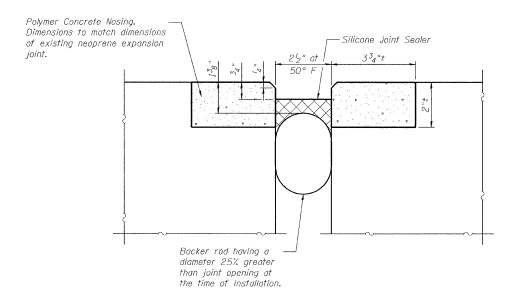


SB. S. ABUTMENT EXPANSION JOINT

(Horiz. dimensions at Rt. L's) Note: Remove existing preformed joint sealer. Cost included with Silicone Joint Sealer, 1³4"



SB END TREATMENT



DESIGNED E.E.J

CHECKED J.A.Z.

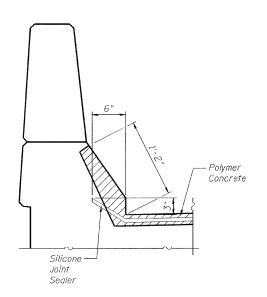
CHECKED J.A.Z.

DRAWN

E.E.J.

NB, N. ABUTMENT EXPANSION JOINT

(Horiz. dimensions at Rt. L's)
Note: Remove existing neoprene expansion joint.
Cost included with Silicone Joint Sealer, 2.5".



NB END TREATMENT

Notes:

 Joint opening widths are based on original plans. Contractor must verify dimensions.

BILL OF MATERIAL

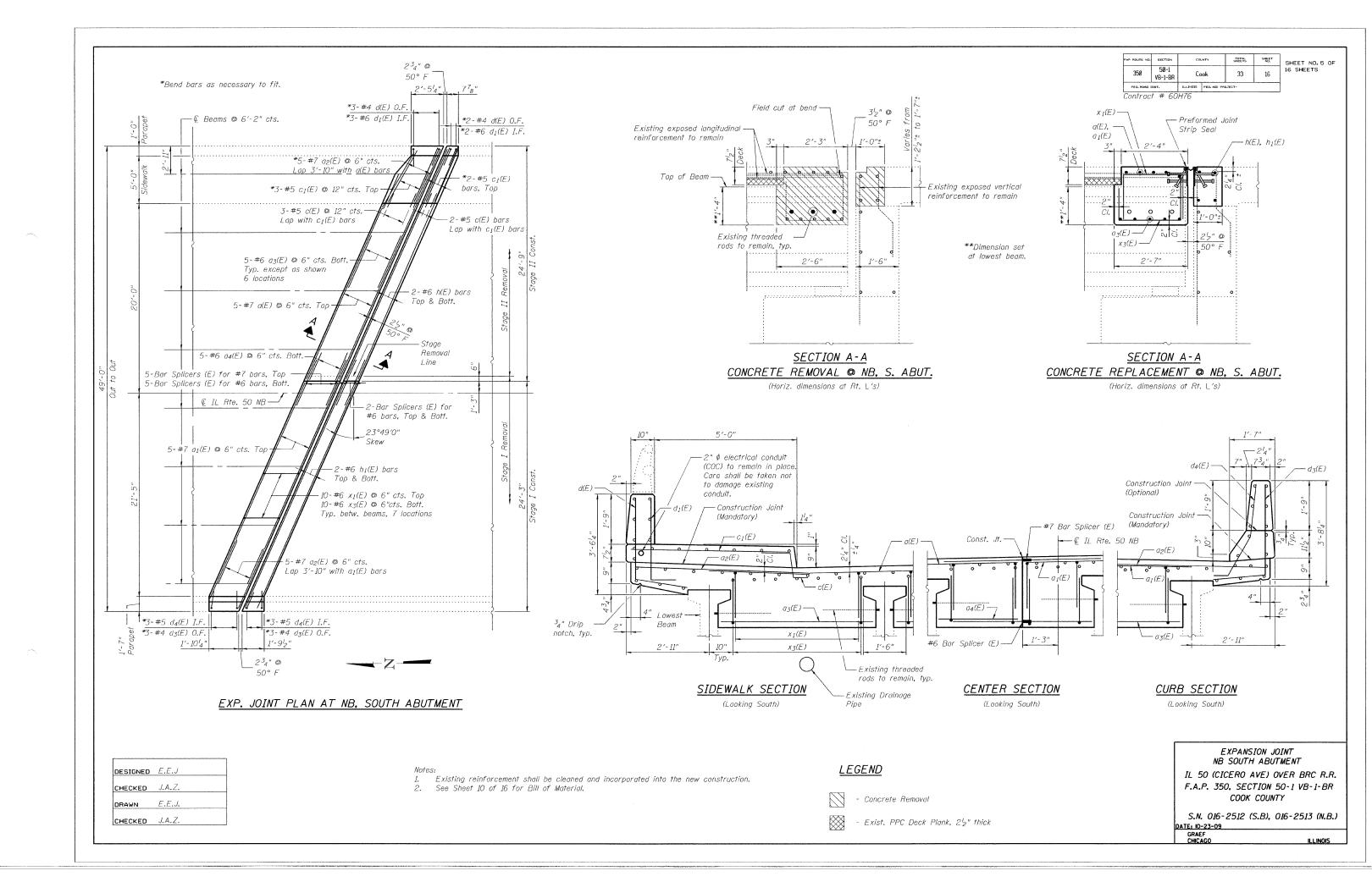
Item	Unit	Quantity
Silicone Joint Sealer, 2.5"	Foot	51
Polymer Concrete	Cu. Ft.	5.3
Silicone Joint Sealer, 1 ³ 4"	Foot	53
Silicone Joint Sealer, 23 ₄ "	Foot	51

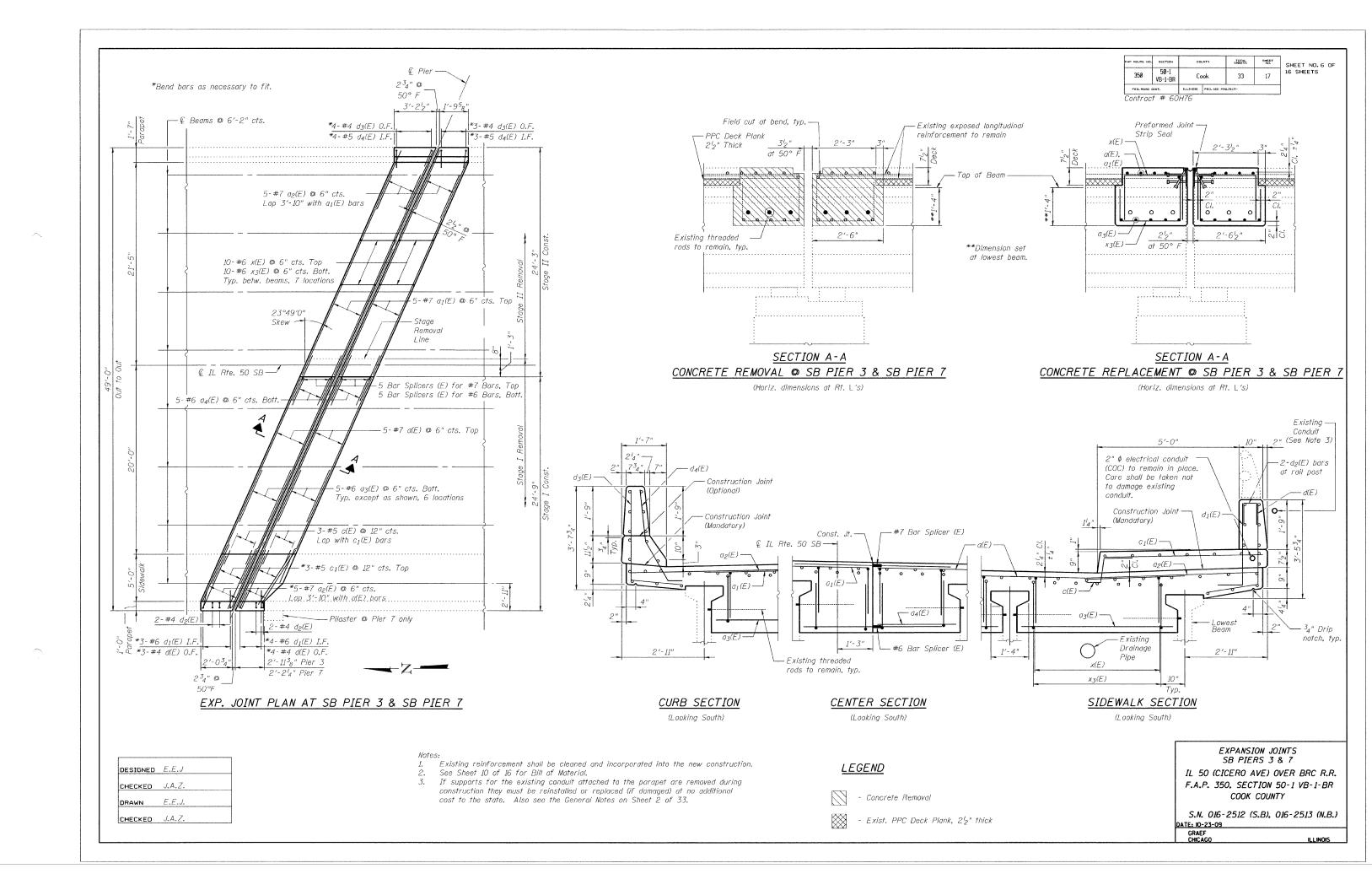
EXPANSION JOINTS
SB ABUTMENTS & NB NORTH ABUTMENT
IL 50 (CICERO AVE) OVER BRC R.R.
F.A.P. 350, SECTION 50-1 VB-1-BR
COOK COUNTY

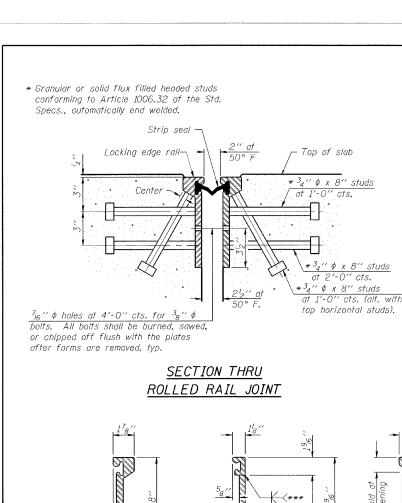
S.N. 016-2512 (S.B), 016-2513 (N.B.) DATE: 10-23-09

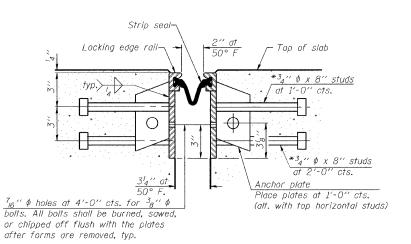
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ILLINOIS

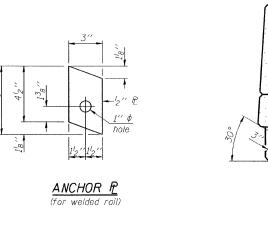


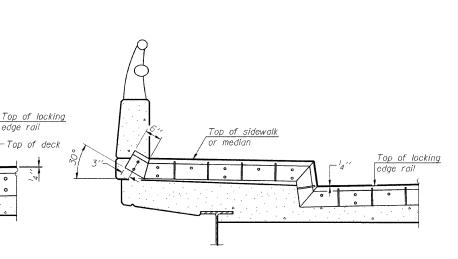






SECTION THRU WELDED RAIL JOINT





AP ROUTE NO. SECTION

350

and stage construction joints.

shall be made at no additional cost to the State.

Article 520.03 of the Standard Specifications.

50-1 VB-1-BR

Contract # 60H76

The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not

permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities

The manufacturer's recommended installation methods shall be followed. The joint opening and deck dimensions detailed on the superstructure are

based on a rolled rail expansion joint. If the Contractor elects to use the

according to the dimensions detailed on this sheet. Required modifications

All steel components shall be galvanized after fabrication according to

welded rail expansion joint, the opening and deck dimensions shall be modified

ROLLED EXTRUDED RAIL WELDED RAIL

LOCKING EDGE RAIL SPLICE

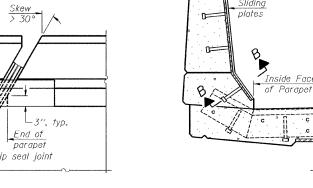
The inside of the locking edge rail groove shall be free of weld residue.

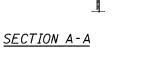
***Back gouge not required if complete joint penetration is verified by mock-up.

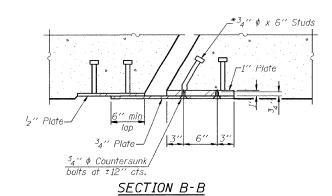
AT PARAPET

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

TYPICAL END TREATMENTS







PREFORMED JOINT STRIP SEAL IL 50 (CICERO AVE) OVER BRC R.R. F.A.P. 350, SECTION 50-1 VB-1-BR COOK COUNTY

Foot

BILL OF MATERIAL

reformed Joint Strip Seal

SHEET NO.

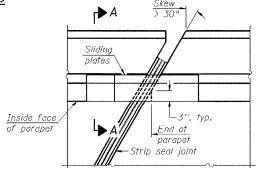
SHEET NO. 7 OF

TOTAL SHEETS

33

S.N. 016-2512 (S.B), 016-2513 (N.B.) DATE: 10-23-09 GRAEF

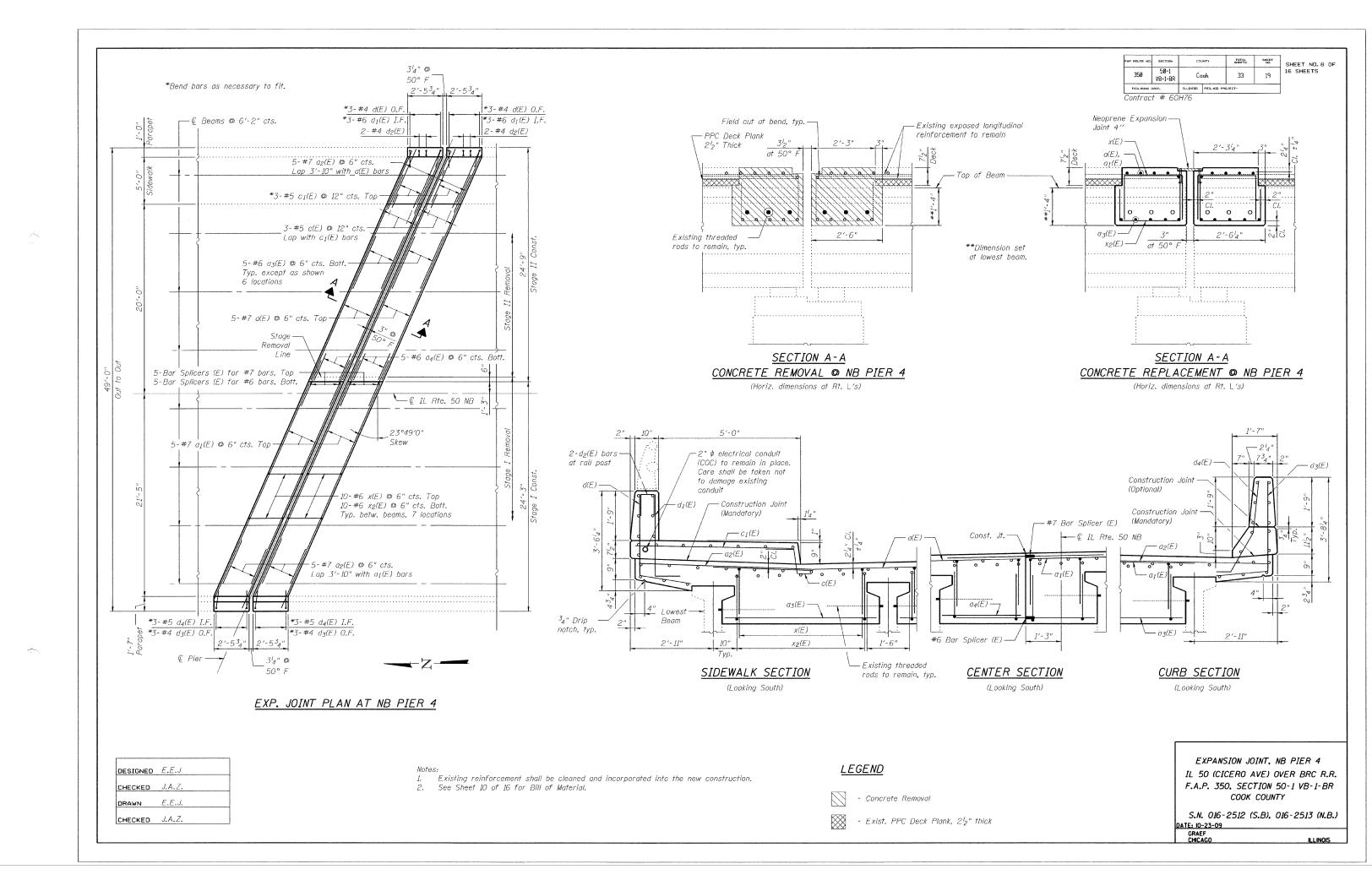
LOCKING EDGE RAILS

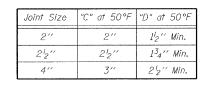


PLAN

POINT BLOCK DETAILS

DESIGNED E.E.J CHECKED J.A.Z. DRAWN CHECKED J.A.Z. EJ-SSJ 10-1-08





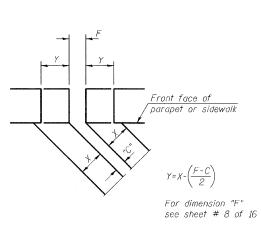
INSTALLATION NOTES

- Install continuous seal in roadway, parapet, curb, and sidewalk.
- (2) Install anchor blocks as indicated.

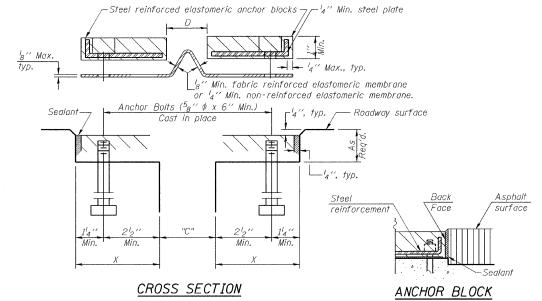
Maximum spacing of anchor bolts shall be 12"

SKEW LIMITATIONS

The details of the anchor blocks and the elastomeric membrane in the parapet, as shown, are for up to 50° skews. For skews greater than 50°, the anchor blocks and the elastomeric membrane, installed according to dimension "D", might require modifications to insure a minimum clearance of $I_2^{\prime\prime}$ from centerline of anchor studs to edge of parapet opening. The anchor blocks and the elastomeric membrane shall also be installed to the top of the parapet with the anchor studs spaced at ±12" cts.



FORMING BLOCKOUT SKETCH



TOTAL SHEETS SHEET NO. 350 VB-1-BR 16 SHEETS 33 20

GENERAL NOTES

Continuous Seal Neoprene Expansion Joint shall consist of molded anchor blocks of elastomer and steel, field assembled over continuous lengths of elastomeric membrane.

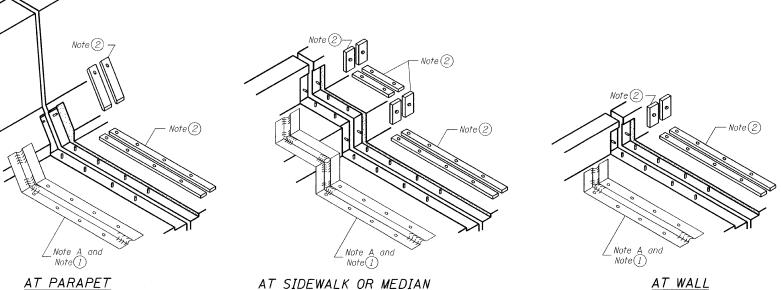
The elastomeric membrane shall be premolded with a single or a double upward convolution that will have a "memory" to return to its molded position upon joint closure.

The convolution length shall be such that the extended length will not be greater than the manufactured length when the joint is fully expanded in its design range and will not protrude above the anchor blocks when the joint is fully compressed.

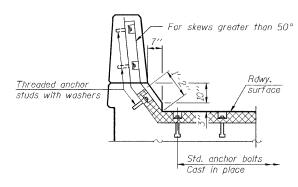
Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.

The parapet and roadway membrane shall be made continuous by an approved vulcanizing process. Lapping will not be permitted.

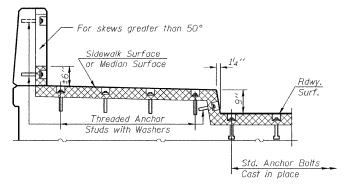
> After initial setting of the concrete the Temporary Wood Blockout shall be cut.



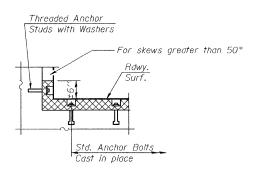




AT PARAPET

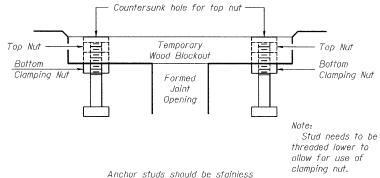


AT SIDEWALK OR MEDIAN TYPICAL END TREATMENTS



WITH ASPHALT SURFACE

AT WALL



RECOMMENDED BLOCKOUT DETAIL

CONTINUOUS SEAL 4" NEOPRENE EXPANSION JOINTS IL 50 (CICERO AVE) OVER BRC R.R. F.A.P. 350, SECTION 50-1 VB-1-BR COOK COUNTY

S.N. 016-2512 (S.B), 016-2513 (N.B.) DATE: 10-23-09 GRAEF

CHECKED J.A.Z. EJ-CS

DRAWN

DESIGNED E.E.J

CHECKED J.A.Z.

E.E.J.

Threaded Anchor Studs with Washers

10-22-04

Std. Anchor Bolts

Cast in place

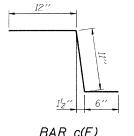
AT CURB

FAP ROUTE NO.	SECTION	cos	INTY	TOTAL SHEETS	SHEET NO.	SHEET NO.10 OF
350	50-1 VB-1-BR	Cook		33	21	16 SHEETS
PED. ROAG (DIST.	ILLINOIS FED. AID PRO		DJECT-		

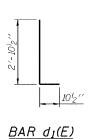
NB S.N. 016-2513

BILL OF MATERIAL

Contract # 60H76



BAR d(E)



BILL OF MATERIAL
 Bar
 No.
 Size
 Length
 Shape

 a(E)
 20
 #7
 23'-8"
 —

 a₁(E)
 20
 #7
 23'-2"
 —

12 #5 2'-5" 12 #5 6'-2"

x(E) 280 #6 5'-4'' □ x₃(E) 280 #6 5'-3'' □

Cu. Yd.

Pound

42.8

8,400

Superstructures

Epoxy Coated

Reinforcement Bars,

SB S.N. 016-2512

Bar	No.	Size	Length	Shape
a(E)	15	#7	23'-8''	
a ₁ (E)	15	#7	23'-2"	
a ₂ (E)	30	#7	6'-8''	
a3(E)	90	#6	5'-10''	
04(E)	15	#6	3'-1''	
c(E)	11	#5	2'-5"	7
c1(E)	11	#5	6'-2"	
d(E)	11	#4	4'-8''	L
di(E)	11	#6	3'-9"	L L
d2(E)	4	#4	2'-0"	П
	12	#4	5'-0"	- !!
d3(E) d4(E)	12	#5	3'-11''	-
(14(E)	12	#-5	J - 11	
h(E)	4	#6	26'-6"	
h1(E)	4	#6	26'-0"	
x(E)	140	#6	5′-4′′	
x1(E)	70	#6	5′-5′′	П
x2(E)	140	#6	5'-2''	Ш
x3(E)	70	#6	5′-3′′	니
	-	-		
	-	 		

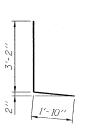
Concrete

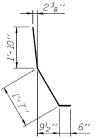
Superstructures

Reinforcement Bars, Epoxy Coated



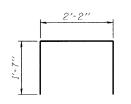
BAR d2(E)



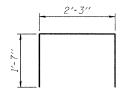


BAR d3(E)

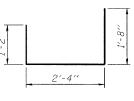
BAR d4(E)

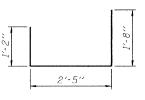


BAR x(E)



BAR $x_1(E)$





BAR x2(E)

BAR x3(E)

DESIGNED	E.E.J
CHECKED	J.A.Z.
	F.F.J.
DRAWN	E.E.J.
CHECKED	J.A.Z.

EXPANSION JOINT BILLS OF MATERAL IL 50 (CICERO AVE) OVER BRC R.R. F.A.P. 350, SECTION 50-1 VB-1-BR COOK COUNTY

Cu. Yd.

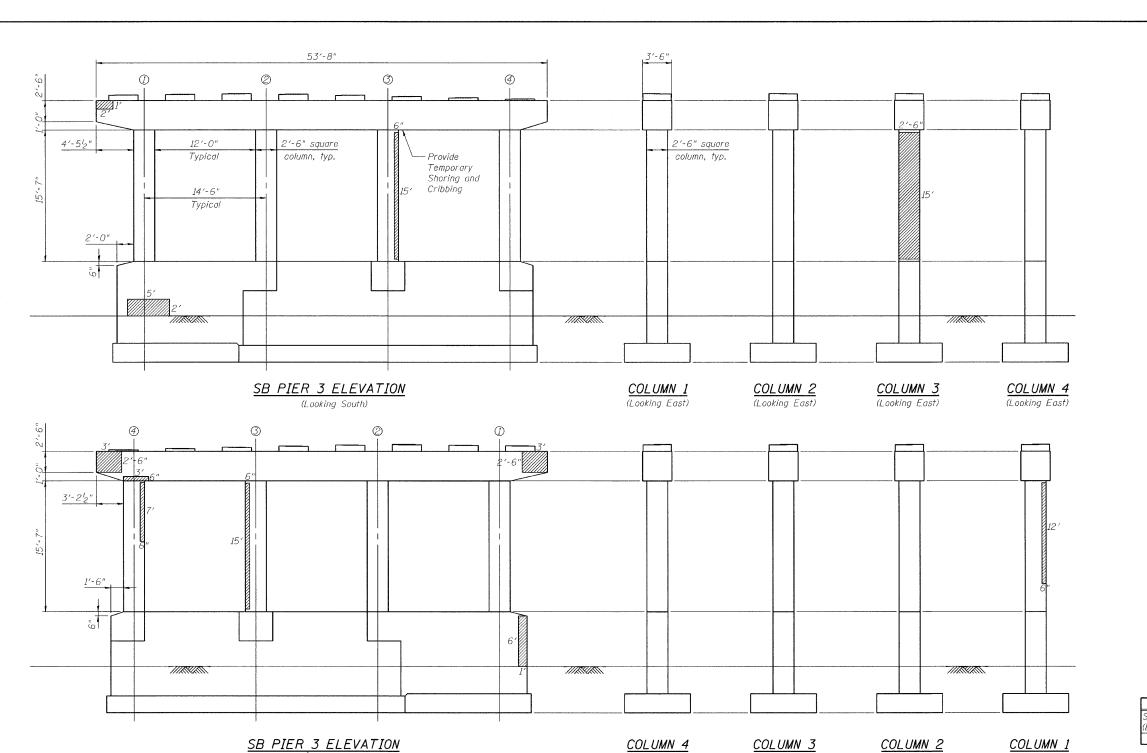
Pound

35.2

6,640

S.N. 016-2512 (S.B), 016-2513 (N.B.)

DATE: 10-23-09 GRAEF CHICAGO



(Looking West)

(Looking North)

DESIGNED E.E.J

CHECKED J.A.Z.

DRAWN E.E.J.

CHECKED J.A.Z.

FAP ROUTE ND.	SECTION	cou	COUNTY		SHEET NO.	
350	50-1 VB-1-BR	Cook		33	22	1
FED. ROAD I	DIST.	ILLINOIS	FED. AID PR	DJECT~		

Contract # 60H76

SB PIER 3 REACTIONS (BEAM LOADS ONLY)

		Span 3	Span 4
R_{DL}	(k)	36.8	36.8
RsDL	(k)	5.0	4.9
R_{LL}	(k)	33.5	33.6
R_I	(k)	8.6	8.7
RTotal	(k)	83.9	84.0

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	97

LEGEND

- Structural Repair of Concrete (Depth equal to or less than 5")

(Looking West)

(Looking West)

💢 - Column Number

SB PIER 3 REPAIRS

IL 50 (CICERO AVE) OVER BRC R.R.

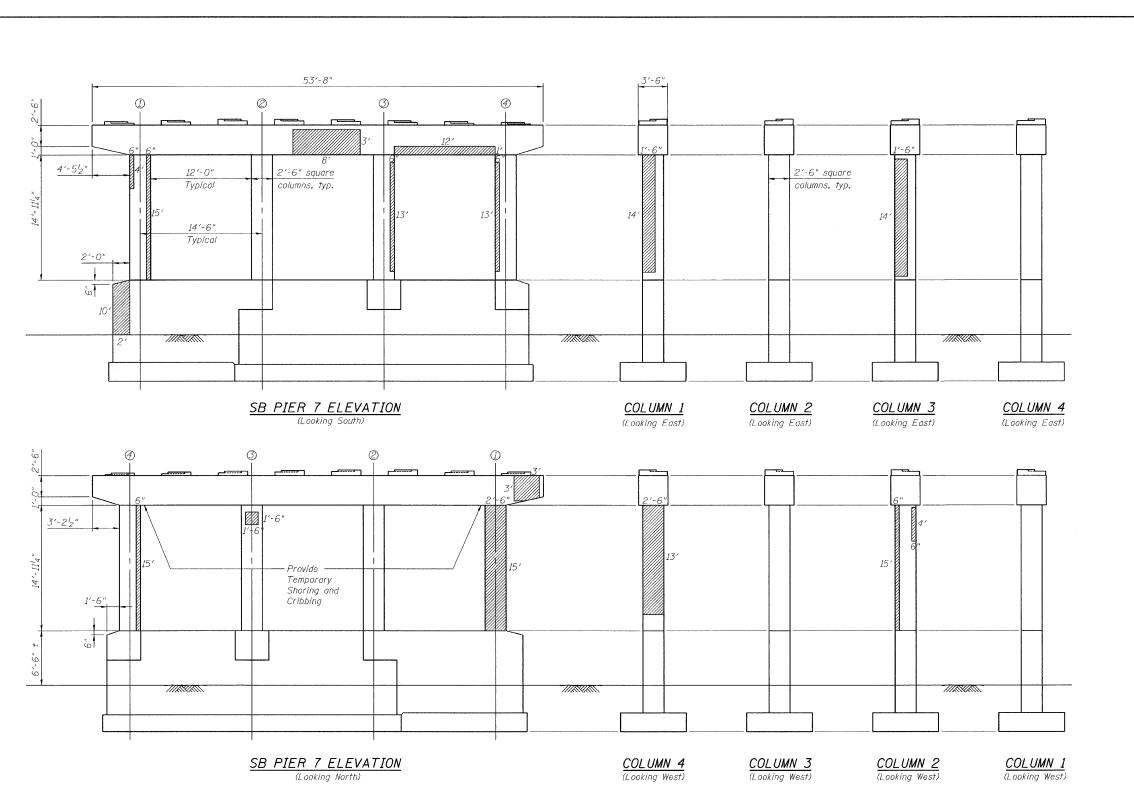
F.A.P. 350, SECTION 50-1 VB-1-BR

COOK COUNTY

S.N. 016-2512 (S.B), 016-2513 (N.B.) DATE: 10-23-09

TE: IO-23-09 GRAEF

ILLINOIS



DESIGNED E.E.J

CHECKED J.A.Z.

DRAWN E.E.J.

CHECKED J.A.Z.

SHEET NO. 12 OF 16 SHEETS 350 SECTION 50-1 VB-1-BR 33 23 Cook

Contract # 60H76

SB PIER 7 REACTIONS (BEAM LOADS ONLY)

		Span 7	Span 8
R_{DL}	(k)	38.9	19.0
R_{SDL}	(k)	5.2	2.4
R_{LL}	(k)	33.9	28.3
R_I	(k)	8.6	8.5
RTotal	(k)	86.6	58.2

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	219

LEGEND

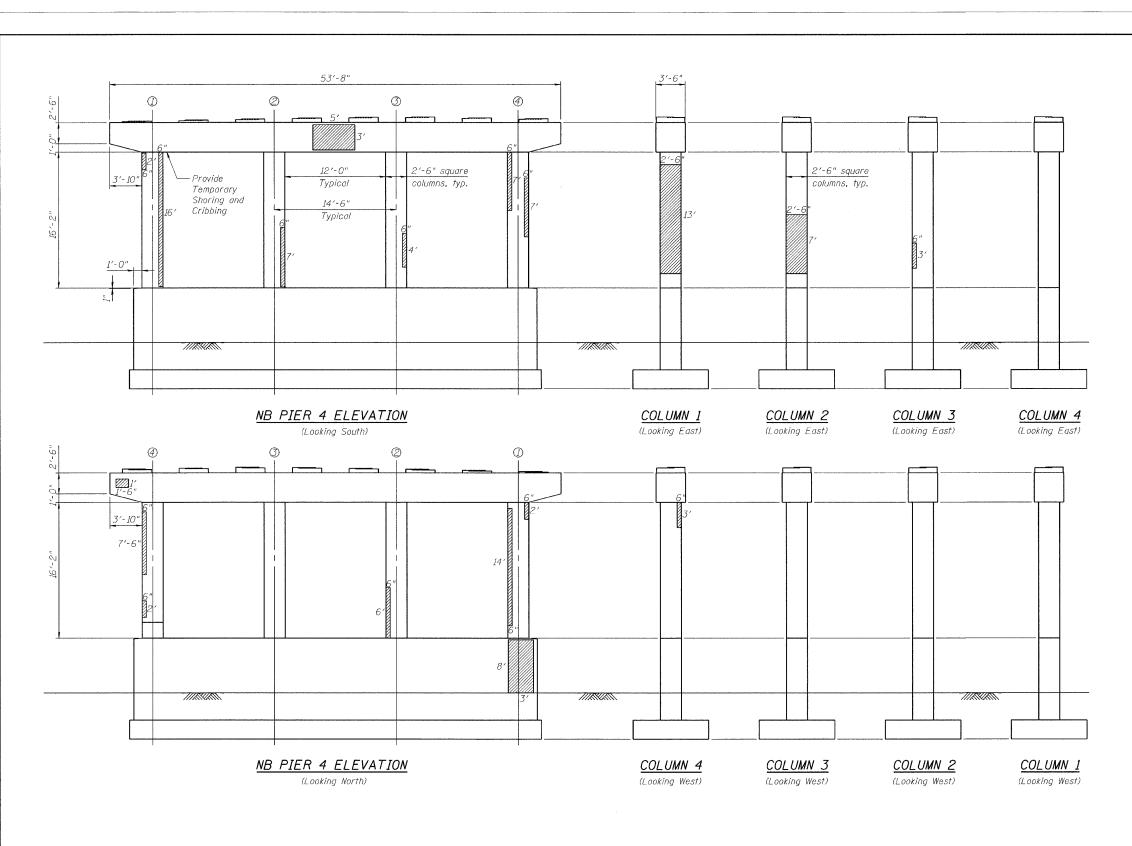
- Structural Repair of Concrete (Depth equal to or less than 5")

💢 - Column Number

SB PIER 7 REPAIRS IL 50 (CICERO AVE) OVER BRC R.R. F.A.P. 350, SECTION 50-1 VB-1-BR COOK COUNTY

S.N. 016-2512 (S.B), 016-2513 (N.B.)

DATE: IO-23-09 GRAEF CHICAGO



DESIGNED E.E.J

CHECKED J.A.Z.

DRAWN E.E.J.

CHECKED J.A.Z.

TOTAL SHEET NO. 13 OF 16 SHEETS FAP ROUTE NO. SECTION 350 50-1 Cook 3

FRD. ROGG DIST. LLINGIS FED. AND FROMEET
CONTract # 60H76 33

NB PIER 4 REACTIONS (BEAM LOADS ONLY)

		Span 4	Span 5
RDL	(k)	36.4	39.5
R_{SDL}	(k)	4.3	4.4
R_{LL}	(k)	32.9	33.6
R_I	(k)	8.8	8.8
RTotal	(k)	82.4	86.3

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	131

LEGEND

- Structural Repair of Concrete (Depth equal to or less than 5")

🔾 - Column Number

NB PIER 4 REPAIRS IL 50 (CICERO AVE) OVER BRC R.R. F.A.P. 350, SECTION 50-1 VB-1-BR COOK COUNTY

S.N. 016-2512 (S.B), 016-2513 (N.B.) DATE: 10-23-09

GRAEF CHICAGO



Contract # 60H76

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length, All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for

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

- Minimum Capacity (Tension in kips) = $1.25 \times fy \times A_t$

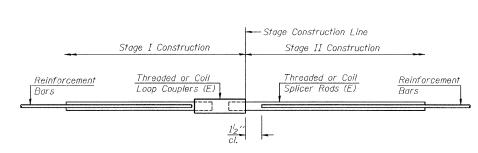
Tension III kips:

Minimum *Pull-out Strength = $0.66 \times fy \times A_t$ (Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi.

 A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

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



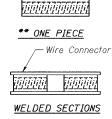
STANDARD

Bar Size	No. Assemblies Required	Location
#6	10	SB PIER 3
#7	10	SB PIER 3
#6	10	SB PIER 7
#7	10	SB PIER 7
#6	10	NB PIER 4
#7	10	NB PIER 4
#6	9	NB S, ABUT.
#7	5	NB S. ABUT.

BAR SPLICER ASSEMBLY DETAILS IL 50 (CICERO AVE) OVER BRC R.R. F.A.P. 350, SECTION 50-1 VB-1-BR COOK COUNTY

S.N. 016-2512 (S.B), 016-2513 (N.B.) DATE: 10-23-09 GRAEF CHICAGO

The diameter of this part is equal or larger than the - diameter of bar spliced. 1111 The diameter of this part is the same as the diamete ROLLED THREAD DOWEL BAR of the bar spliced.



BAR SPLICER ASSEMBLY ALTERNATIVES

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

Bridge Deck

4'-0"

Threaded or Coil

Loop Couplers (E)

INSTALLATION AND SETTING METHODS

-Washer Face

<u>"B"</u>

←Stage Construction Line

-Foam Plugs

Threaded or Coil Splicer Rods (E)

<u>"A"</u>

Template

Forms-

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



Approach slab hatch block Threaded or Coil Threaded or Coil Splicer Rods (E) Loop Couplers (E) -Reinforcement bars

FOR STUB

ABUTMENTS

FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Approach Slab

6'-0"

Threaded or Coil

Splicer Rods (E)

	Bar	Splice	for	#5	bar		
Min.	Capacity	= 23.0	kips	s - 1	tensio	า	
Min.	Pull-out	Strengt	h =	12.3	kips	-	tension
No.	Required	=					

DESIGNED	E.E.J
CHECKED	J.A.Z.
DRAWN	E.E.J.
CHECKED	J.A.Z.

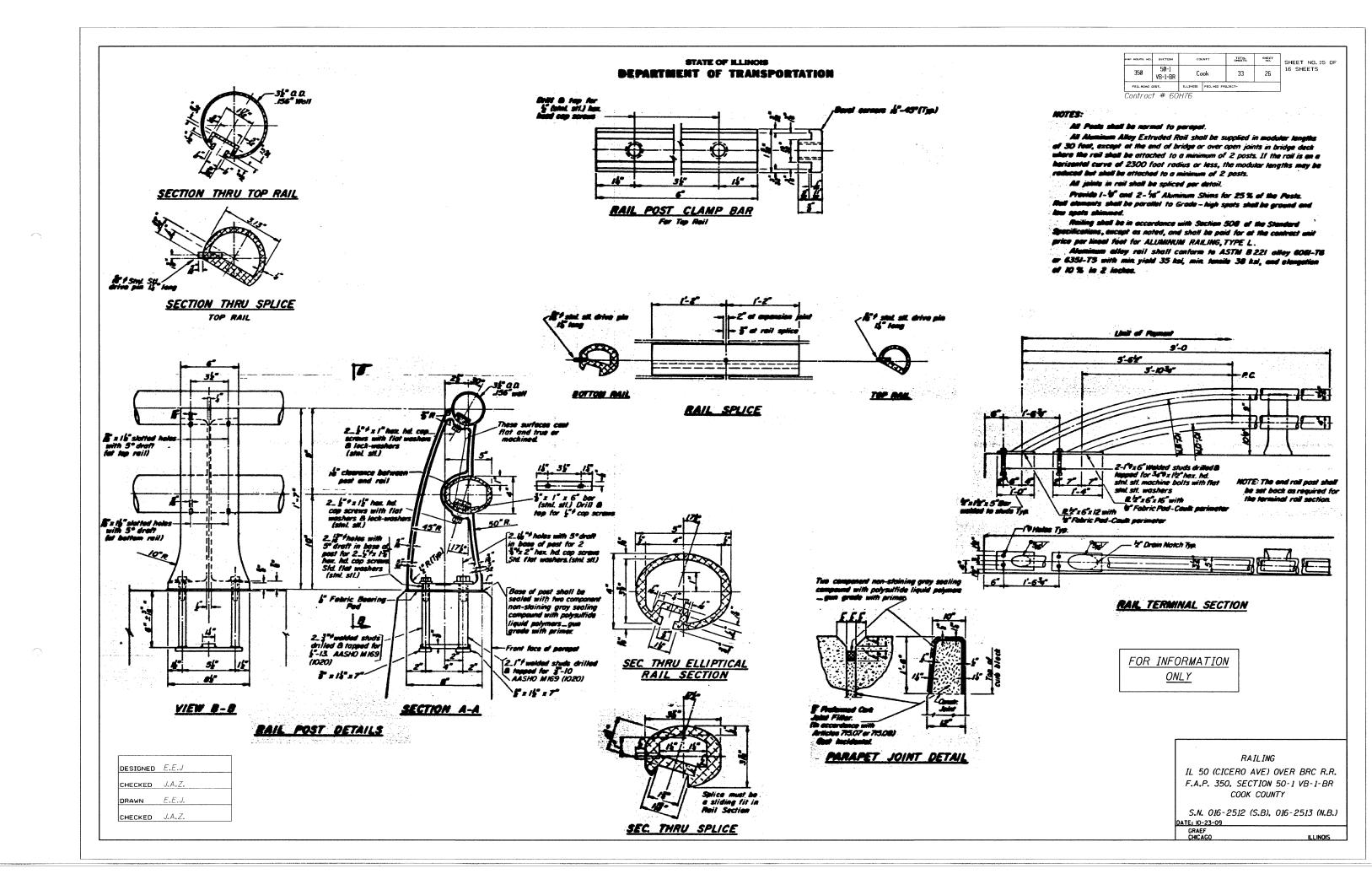
BSD-1

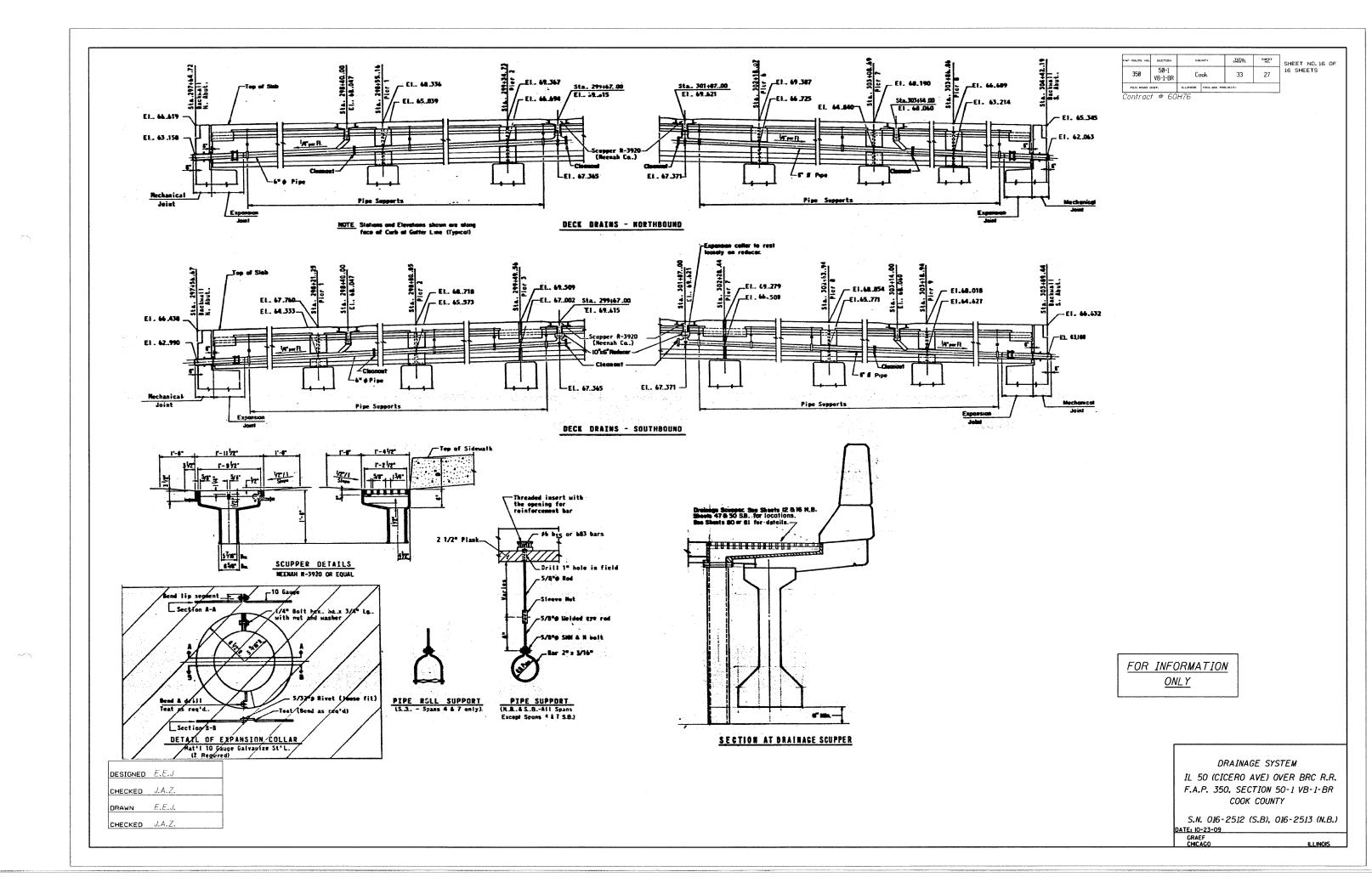
Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension lo. Required =

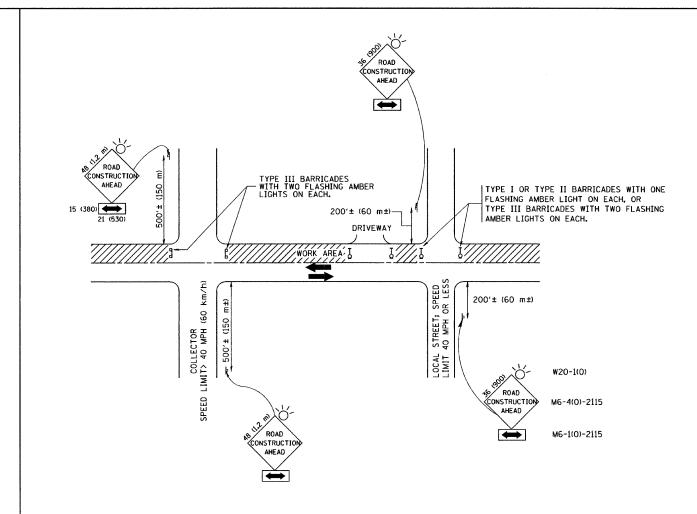
10-1-08

 $\underline{\textit{Reinforcement}}$

Bars







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 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- Q) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) 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 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- Q) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) 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.
- 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).

SCALE: NONE

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.

- 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.

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

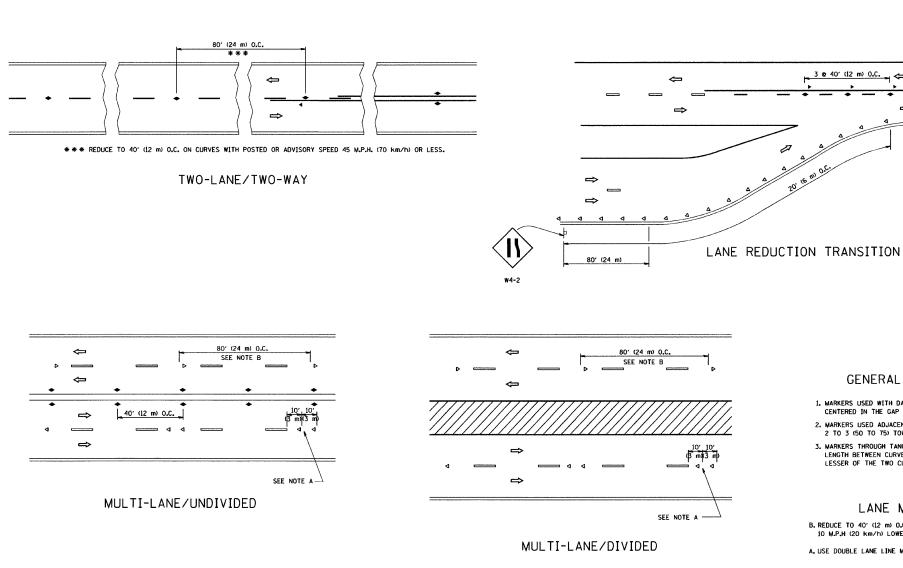
FILE NAME =	USER NAME = gaglianobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
W:\diststd\22x34\tc10.dgn		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED -T, RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TR	AFFI	C	ON	TRO	L AND	PF	ROTEC	TION	FOR		
IDE	ROA	DS	, IN	TER	SECTIO	NS,	AND	DRIV	EWAYS		
UEET	NO	1	OE.	1	CHEETC	- T	CTA			TO	· ·

F.A.P. SECTION COUNTY TOTAL SHEETS NO. 350 50-1 VB-1-BR COOK 33 28

TC-10 CONTRACT NO. | ILLINOIS FED. AID PROJECT



GENERAL NOTES

3 e 40' (12 m) O.C.

- 1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- 3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

LANE MARKER NOTES

- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

SYMBOLS

YELLOW STRIPE

1 5

SEE NOTE A

TWO-WAY LEFT TURN

40' (12 m) O.C.

- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

DESIGN NOTES

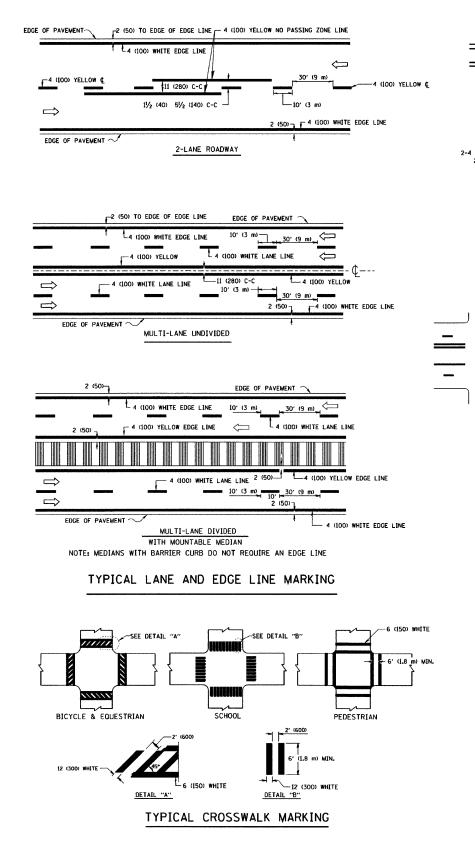
- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
- 4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

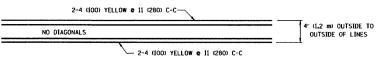
3 @ 80' (24 m) O.C. -__ 3 @ 80' (24 m) O.C. 3 @ 40' (12 m) 40' (12 m) 40' (12 m) 0.C. * SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

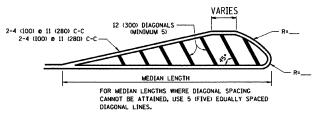
All dimensions are in inches (millimeters) unless otherwise shown.

TYPICAL APPLICATIONS		SECTION	COUNTY	OTAL SHEET
	350	50-1 VB-1-BR	COOK	33 29
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)		TC-11	CONTRACT N	iO.
SHEETS STA. TO STA.	FED. ROAD D		AID PROJECT	
•	NT MARKERS (SNOW-PLOW RESISTANT)	NT MARKERS (SNOW-PLOW RESISTANT)	NT MARKERS (SNOW-PLOW RESISTANT) 350 50-1 VB-1-BR TC-11	NT MARKERS (SNOW-PLOW RESISTANT) TC-11 CONTRACT NO



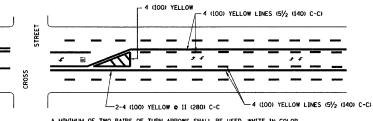


4' (1.2 m) WIDE MEDIANS ONLY

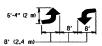


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) T0 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

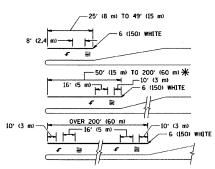


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR, ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

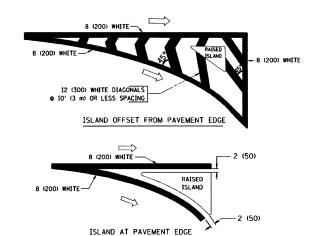


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SO. FT. (1.5 m²) \P AREA = 20.8 SO. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400" (120 m) 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



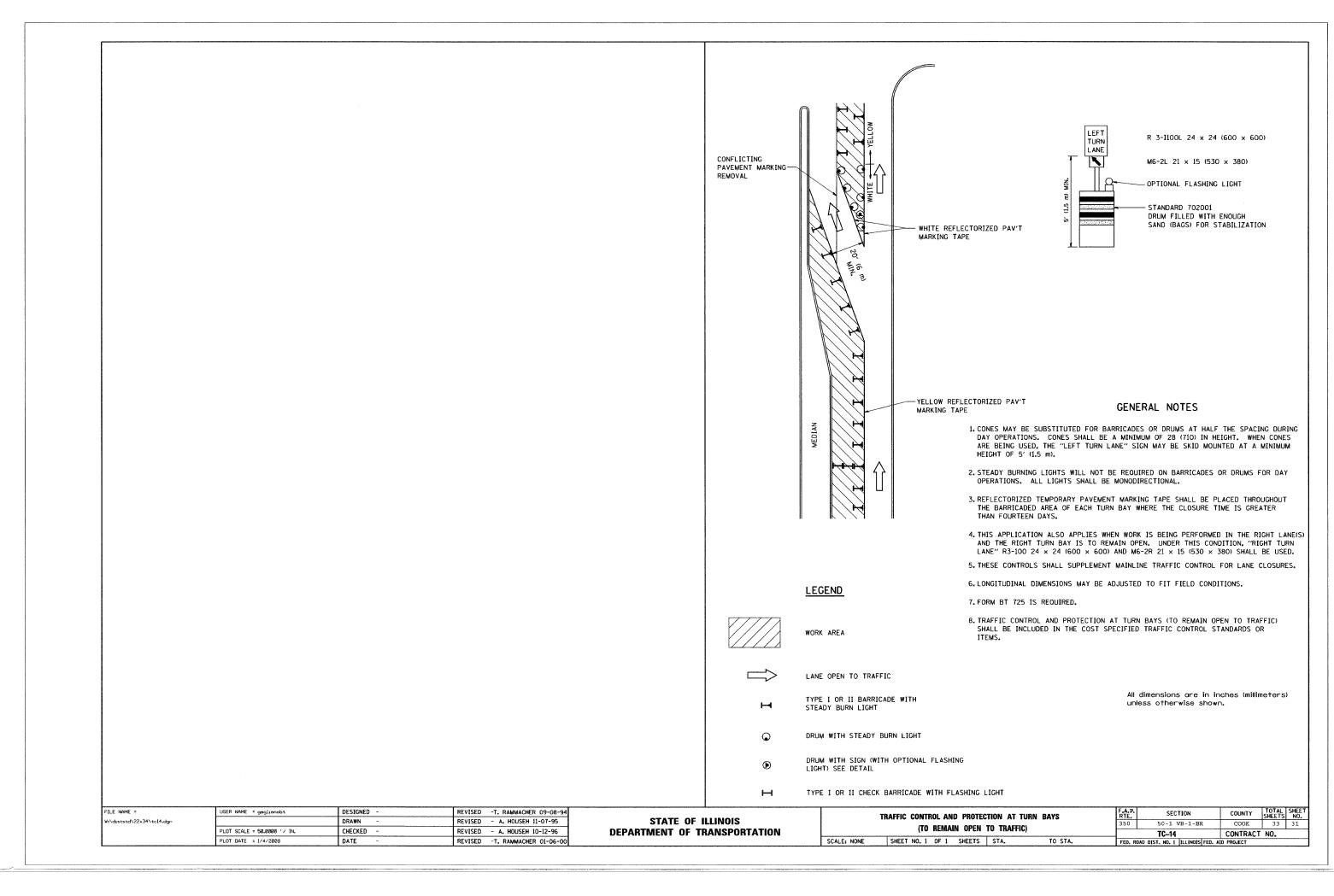
TYPICAL ISLAND MARKING

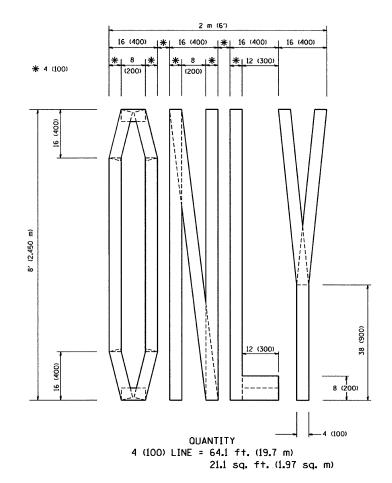
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS		
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE		
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 2 4 (100)	SOLID	YELLOW	11 (280) C-C		
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 e 4 (100)	SOL ID SOL ID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 1280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN		
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE		
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE		
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB		
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL		
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 51/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE		
	8' (2.4m) 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 e 6 (150) 12 (300) e 45° 12 (300) e 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.		
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1,2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE		
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.		
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS © 45°	SOLID	WHITE	DIACONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h); 30' (9 m) C-C (OVER 45MPH (70 km/h))		
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m! LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33 m ²) EACH "X"=54.0 SO. FT. (5.0 m ²)		
SHOULDER DIAGONALS	12 (300) e 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))		

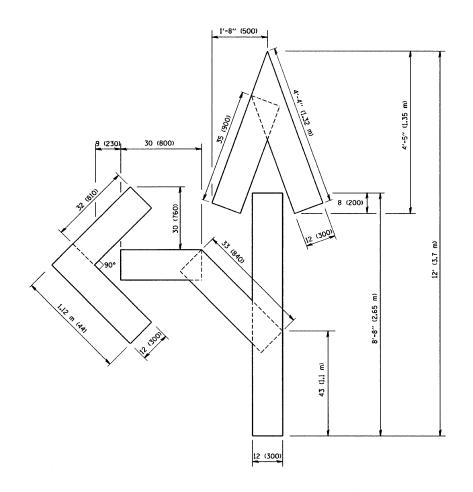
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

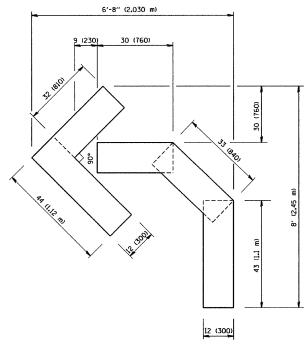
FILE NAME =	USER NAME = gaglianobt	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94		DISTRICT ONE	F.A.P. SECTION	COUNTY TOTAL SHEET SHEETS NO.
W:\diststd\22x34\tcl3.dgn		DRAWN -	REVISED -A. HOUSEH 10-09-96	STATE OF ILLINOIS	l i	350 50-1 VB-1-BR	COOK 33 30
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -A. HOUSEH 10-17-96	DEPARTMENT OF TRANSPORTATION	TYPICAL PAVEMENT MARKINGS	TC-13	CONTRACT NO.
	PLOT DATE = 1/4/2008	DATE - 03-19-90	REVISED -T. RAMMACHER 01-06-00		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.		ID PROJECT







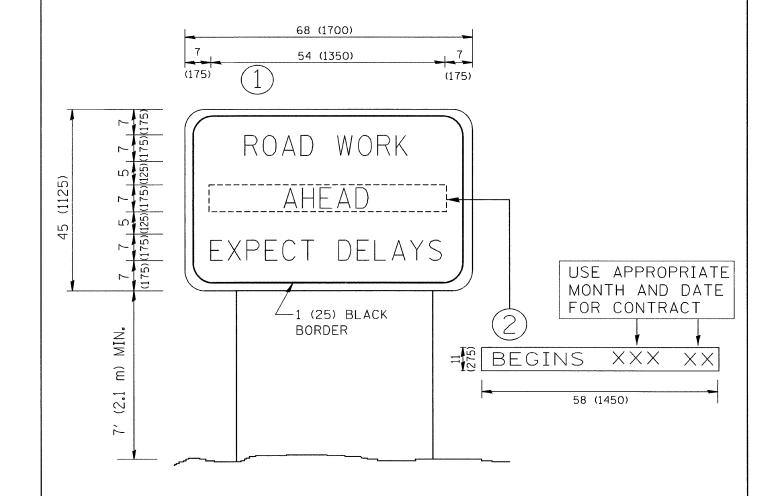
OUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)



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

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

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED -T. RAMMACHER 06-05-96	· · · · · · · · · · · · · · · · · · ·	PAVEMENT MARKING LETTERS AND SYMBOLS		F.A.P.	SECTION	COUNTY TOTAL SHEET
W:\diststd\22x34\tc16.dgn	DRAWN -	DRAWN -	REVISED -T. RAMMACHER 11-04-97				350	50-1 VB-1-BR	COOK 33 32
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98	DEPARTMENT OF TRANSPORTATION	FOR TRAFFIC STAGING		TC16	CONTRACT NO.	
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED - E. GOMEZ 08-28-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		



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 25.70 SQ. FT. (2.3 SQ. M.)
- 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

COUNTY TOTAL SHEET NO. FILE NAME = SER NAME = gaglianobt DESIGNED -REVISED - R. MIRS 09-15-97 SECTION ARTERIAL ROAD STATE OF ILLINOIS DRAWN -REVISED - R. MIRS 12-11-97 50-1 VB-1-BR COOK 33 33 INFORMATION SIGN PLOT SCALE = 50.000 ' / IN. CHECKED -**DEPARTMENT OF TRANSPORTATION** REVISED -T. RAMMACHER 02-02-99 TC-22 CONTR.
FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID | PROJECT PLOT DATE = 1/4/2008 SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. DATE REVISED - C. JUCIUS 01-31-07