# **PROPOSED HIGHWAY PLANS**

FAU 0318 /US ROUTE 6 OVER I& M CANAL SECTION DB-1-R-B BRIDGE BEAM REPLACEMENT, NEW DECK

THIS IMPROVEMENT IS LOCATED IN THE VILLAGE OF ROCKDALE

WILL COUNTY C-91-122-08

TRAFFIC DATA

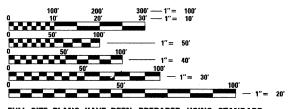
2005 ADT - 6200 POSTED SPEED LIMIT - 45 MPH

FOR INDEX OF SHEETS SEE SHEET NUMBER 2

**IMPROVEMENT LOCATION** SN: 099-0098

US 6 OVER I& M CANAL

SN: 099-0098 SINGLE SPAN PPC DECK
BEAM BRIDGE ON CLOSED ABUTMENT



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

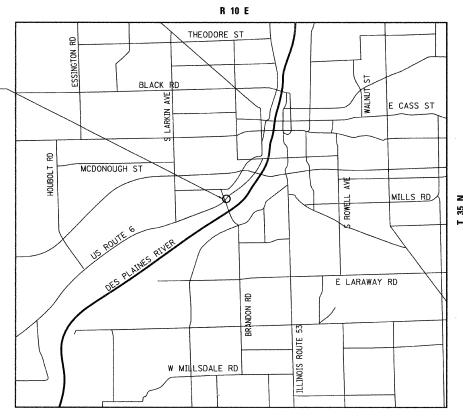
CONTRACT NO. 60D88

Ciorba Group, Inc.

DESIGN FIRM REGISTRATION NUMBER

184-001016

CONSULTING ENGINEERS SUITE 402, 5507 NORTH CUMBERLAND AVE CHICAGO, ILLINOIS 60656 :: (773) 775-4009



JOLIET TOWNSHIP

LOCATION MAP 1:5000

GROSS AND NET LENGTH OF PROJECT = 562 FT = 0.11 MI





SECTION DB-1-R-B WILL 40 0318 FED. ROAD DIST. NO. ILLINOIS CONTRACT NO.

D-91-122-08



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

SUBMITTED

August 15, 2008
Eric E Ham/D
Interior Engineer of Design and Environment

Christine M. Reed 10 HIGHWAYS, CHIEF ENGINEER

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#### STATE STANDARDS

### SIDGE APPROACH PAVEMENT  515001-02 NAME PLATE FOR BRIDGES  606001-03 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER  609006-03 BRIDGE APPROACH PAVEMENT (DRAIN DETAIL)  630001-07 STEEL PLATE BEAM GUARDRAIL  630301-04 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS  631032-03 TRAFFIC BARRIER TERMINAL, TYPE 6  635006-02 REFLECTOR AND TERMINAL MARKER PLACEMENT  635011-01 REFLECTOR MARKER AND MOUNTING DETAILS  701431-04 LANE CLOSURE, MULTILANE, UNDIV. WITH CROSSOVER, FOR SPEEDS > 45 MPH TO 55 MPH  701901 TRAFFIC CONTROL DEVICES  704001-04 TEMPORARY CONCRETE BARRIER  857001 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES  880001 SPAN WIRE MOUNTED SIGNAL AND FLASHING LIGHT BEACON INSTALLATION	000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER  609006-03 BRIDGE APPROACH PAVEMENT (DRAIN DETAIL)  630001-07 STEEL PLATE BEAM GUARDRAIL  630301-04 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS  631032-03 TRAFFIC BARRIER TERMINAL, TYPE 6  635006-02 REFLECTOR AND TERMINAL MARKER PLACEMENT  635011-01 REFLECTOR MARKER AND MOUNTING DETAILS  701431-04 LANE CLOSURE, MULTILANE, UNDIV. WITH CROSSOVER, FOR SPEEDS > 45 MPH TO 55 MPH  701901 TRAFFIC CONTROL DEVICES  704001-04 TEMPORARY CONCRETE BARRIER  857001 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES  880001 SPAN WIRE MOUNTED SIGNAL AND FLASHING LIGHT	420401-06	BRIDGE APPROACH PAVEMENT
CURB AND GUTTER  609006-03 BRIDGE APPROACH PAVEMENT (DRAIN DETAIL)  630001-07 STEEL PLATE BEAM GUARDRAIL  630301-04 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS  631032-03 TRAFFIC BARRIER TERMINAL, TYPE 6  635006-02 REFLECTOR AND TERMINAL MARKER PLACEMENT  635011-01 REFLECTOR MARKER AND MOUNTING DETAILS  701431-04 LANE CLOSURE, MULTILANE, UNDIV. WITH CROSSOVER, FOR SPEEDS > 45 MPH TO 55 MPH  701901 TRAFFIC CONTROL DEVICES  704001-04 TEMPORARY CONCRETE BARRIER  857001 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES  880001 SPAN WIRE MOUNTED SIGNAL AND FLASHING LIGHT	515001-02	NAME PLATE FOR BRIDGES
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TERMINALS  631032-03 TRAFFIC BARRIER TERMINAL, TYPE 6  635006-02 REFLECTOR AND TERMINAL MARKER PLACEMENT  635011-01 REFLECTOR MARKER AND MOUNTING DETAILS  701431-04 LANE CLOSURE, MULTILANE, UNDIV. WITH CROSSOVER, FOR SPEEDS > 45 MPH TO 55 MPH  701901 TRAFFIC CONTROL DEVICES  704001-04 TEMPORARY CONCRETE BARRIER  857001 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES  880001 SPAN WIRE MOUNTED SIGNAL AND FLASHING LIGHT	630001-07	STEEL PLATE BEAM GUARDRAIL
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FOR SPEEDS > 45 MPH TO 55 MPH  701901 TRAFFIC CONTROL DEVICES  704001-04 TEMPORARY CONCRETE BARRIER  857001 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES  880001 SPAN WIRE MOUNTED SIGNAL AND FLASHING LIGHT	635011-01	REFLECTOR MARKER AND MOUNTING DETAILS
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PHASE SEQUENCES  880001 SPAN WIRE MOUNTED SIGNAL AND FLASHING LIGHT	704001- <i>04</i>	TEMPORARY CONCRETE BARRIER
	857001	
	880001	
886001 DETECTOR LOOP INSTALLATIONS	886001	DETECTOR LOOP INSTALLATIONS

#### GENERAL NOTES

- 1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATIONS IS REQUIRED)
- 2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- 3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 4. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- 5. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE PAVEMENT MARKING LIMITS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 6. TWO WEEKS PRIOR TO PLACING PAVMENT MARKINGS, CONTACT MS. CORA MATHIS, AREA TRAFFIC FIELD ENGINEER AT (815) 485-6475.
- 7. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 72 HOURS PRIOR TO THE PLACEMENT OF TRAFFIC CONTROL DEVICES.
- 8. CHANGEABLE MESSAGE SIGNS SHALL BE PLACED IN ADVANCE OF THE PROJECT LIMITS AT LEAST ONE WEEK PRIOR TO LANE CLOSURE AND TEMPORARY TRAFFIC SIGNAL OPERATIONS.
- 9. AN EXISTING TRAFFIC SIGNAL CONDUIT IS ATTACHED TO THE WEST SIDE OF THE BRIDGE. THE REMOVAL OF THIS CONDUIT SHALL BE INCLUDED IN THE COST OF REMOVAL OF EXISTING SUPERSTRUCTURES.

#### **COMMITMENTS**

NONE

#### HOT-MIX ASPHALT MIXTURE REQUIREMENTS

			······
OPERATIONS	MIXTURE TYPE	AC TYPE	PERCENT AIR VOIDS
BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5), 2"	PG 64-22	4% @ 70 GYR
	HOT-MIX ASPHALT BINDER COURSE, IL 19.0 mm, N70, 15" to 16"	PG 64-22*	4% @ 70 GYR
HOT-MIX ASPHALT SHOULDER	HOT-MIX ASPHALT SHOULDER, 2"	PG 64-22*	2% @ 30 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

 $\bullet$  WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

	Ciorba Group, Inc.	Ī
	CONSULTING ENGINEERS	L
ア	5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656	ŀ
	Tal 779 776 4000 Fau 779 776 4044	1

USER NAME = wlancaster	DESIGNED		JCC	REVISED -
	DRAWN	-	JCC	REVISED -
PLOT SCALE = 1.00000 '/ IN.	CHECKED	-	MJL	REVISED -
PLOT DATE = 7/8/2008	DATE	-	07/09/2008	REVISED -

FAU 0318/US ROUTE 6 (RAILROAD AVENUE)	F.A.U. RTE.	SECTION	COUNTY
OVER I & M CANAL	0318	DB-1-R-B	WILL
INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES			CONTRACT
SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. RO	DAD DIST. NO ILLINOIS FED. A	D PROJECT

	SUMMARY OF QUANTITIES		<i>URBAN</i> TOTAL	CONSTRUC	TION CODE
CODE NO.	DESCRIPTION	UNIT	QUANTITY 100% STATE	ROADWAY IOOO	BRIDGE X081-2A
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	12	12	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	5,650	5,650	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	430	430	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	350	350	
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQFT	40	40	
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	13,700	13,700	
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	155	155	
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	120	120	·
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	90 .	90	
78008200	POLYUREA PAVEMENT MARKING TYPE 1 - LETTERS AND SYMBOLS	SQ FT	40	40	
78008210	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 4"	FOOT	440	440	
78008230	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 6"	FOOT	155°	155	
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	405	405	
78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	27	27	
78200450	MONODIRECTIONAL GUARDRAIL REFELECTORS	EACH	14	14	
78200530	BARRIER WALL MARKERS, TYPE C	EACH	31	31	
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	3	3	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	5,100	5,100	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	410	410	
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	200	200	
81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	60	60	
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	200	200	
87301305	ELECTRICAL CABLE IN CONDUIT, LEAD-IN, 14 PAIR	FOOT	450	450	
88600600	DETECTOR LOOP REPLACEMENT	FOOT	545	545	
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	1	
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	52	52	
X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	354		354
X0325775	WET REFLECTIVE TEMPORARY TAPE, TYPE III,4 INCH	FOOT	16,500	16,500	
X0325841	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 24 INCH	FOOT	60	60	
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	17		17
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.2	0.8
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	<u> </u>
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	<u></u>

DENOTES SPECIALTY ITEM

1		Ciorba Gr		1
177	بت	5507 North Cumberlar Chicago, Illinois 60656 Tel. 773.775.4009	nd Avenue, Suite 402	

USER NAME = wlancaster	DESIGNED	-	JCC	REVISED	-
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PLOT SCALE = 1.0000 '/ IN.	CHECKED	-	MJL	REVISED	=
PLOT DATE = 7/8/2008	DATE	-	07/09/2008	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXIST. CURVE US6-1 PI STA. = 105+69.69  $\Delta = 42^{\circ} \ 06' \ 29'' \ (LT)$ D = 7° 38′ 22′′ R = 750.00'

> P.C. STA. = 102+80.97 P.T. STA. = 108+32.17 DESIGN SPEED = 45 MPH

EXIST. CURVE US6-2 PI STA. = 114+95.56  $\triangle$  = 36° 59′ 25″ (RT) D = 9° 32′ 57″ R = 600.00'T = 288.71' L = 551.19' E = 53.65' T = 200.70' L = 387.36' E = 32.68'

P.C. STA. = 112+94.86 P.T. STA. = 116+82.22

DESIGN SPEED = 45 MPH

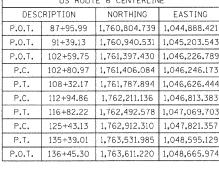
EXIST. CURVE US6-3 PI STA. = 130+45.69  $\triangle$  = 19° 01′ 12″ (LT)

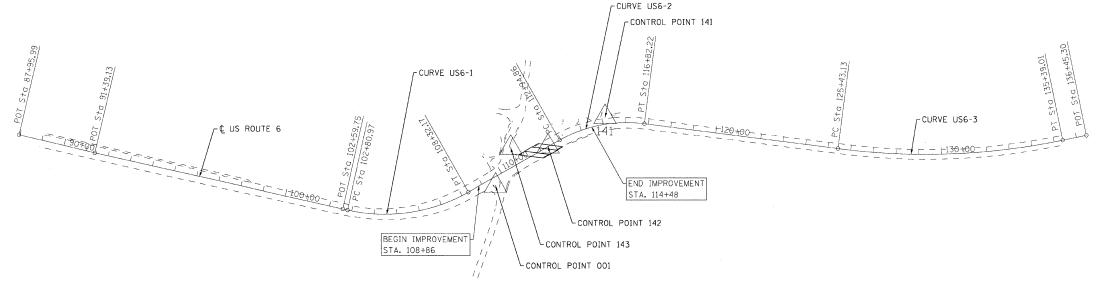
D = 1° 54′ 35″ R = 3,000.00' T = 502.57'L = 995.89'

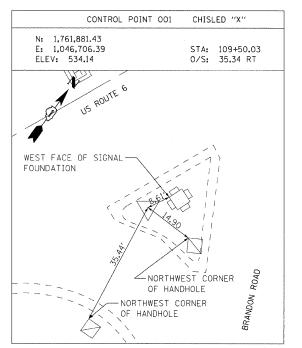
E = 41.80' P.C. STA. = 125+43.13 P.T. STA. = 135+39.01 DESIGN SPEED = 45 MPH

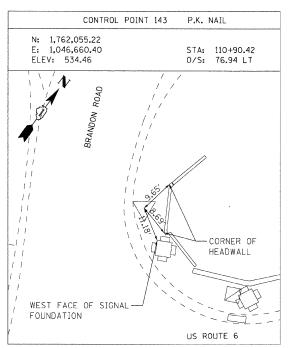


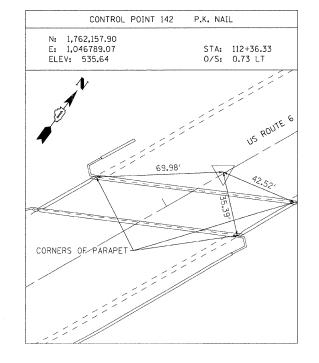
US ROUTE 6 CENTERLINE						
DESCRIPTION		NORTHING	EASTING			
P.O.T.	87+95.99	1,760,804.739	1,044,888.421			
P.O.T.	91+39.13	1,760,940.531	1,045,203.543			
P.O.T.	102+59.75	1,761,397.430	1,046,226.789			
P.C.	102+80.97	1,761,406.084	1,046,246.173			
P.T.	108+32.17	1,761,787.894	1,046,626.444			
P.C.	112+94.86	1,762,211.136	1,046,813.383			
P.T.	116+82.22	1,762,492,578	1,047,069.703			
P.C.	125+43.13	1,762,912.310	1,047,821.357			
P.T.	135+39.01	1,763,531.985	1,048,595.129			
P.O.T.	136+45.30	1,763,611.220	1,048,665.974			

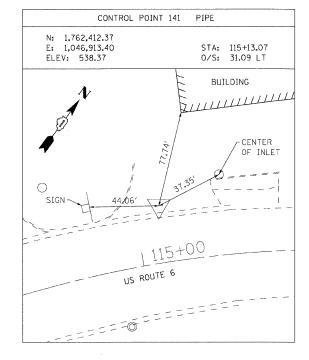












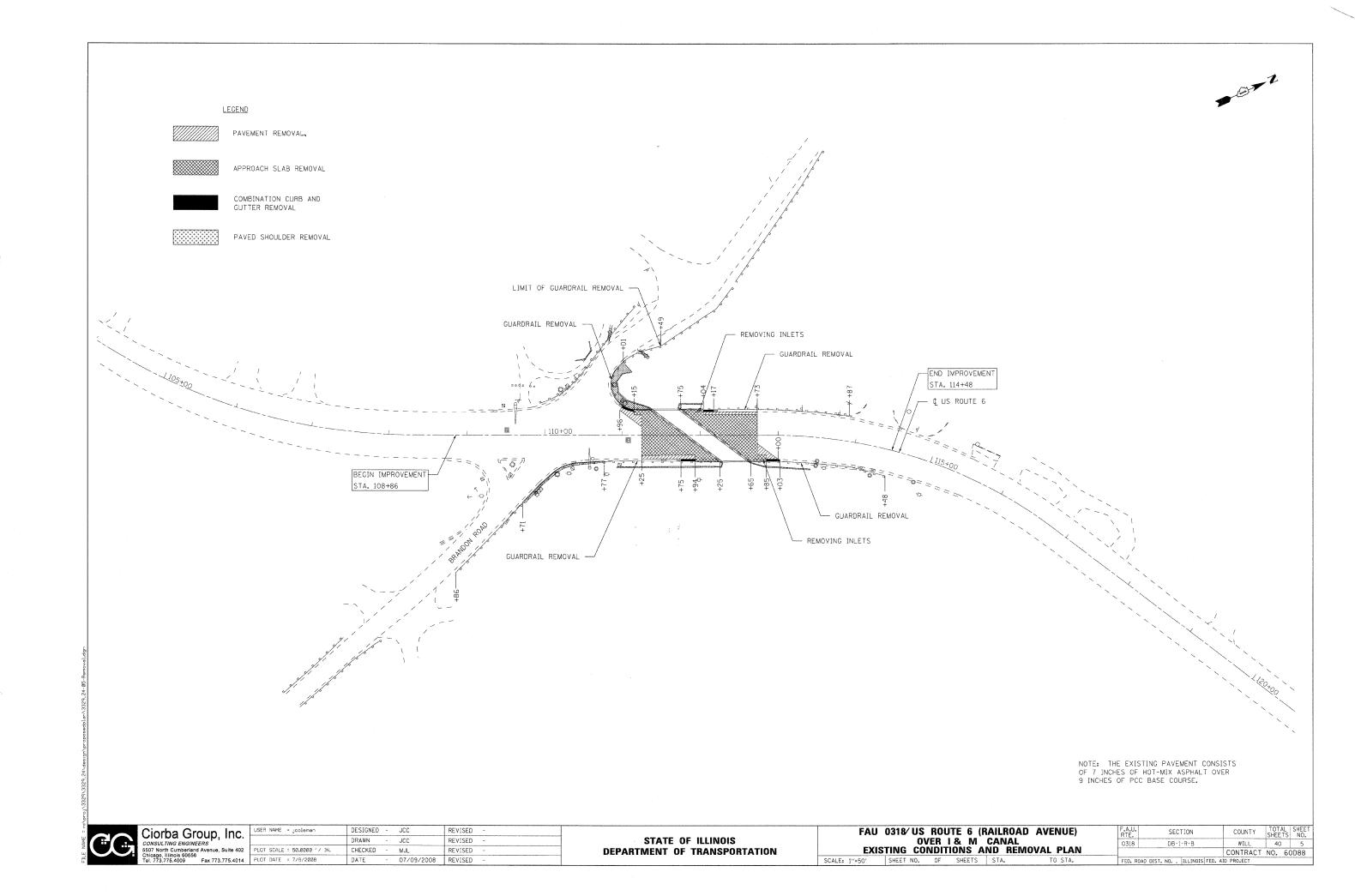
	Ciorba Group, Inc.
	CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656
_	Tel. 773.775.4009 Fax 773.775.4014

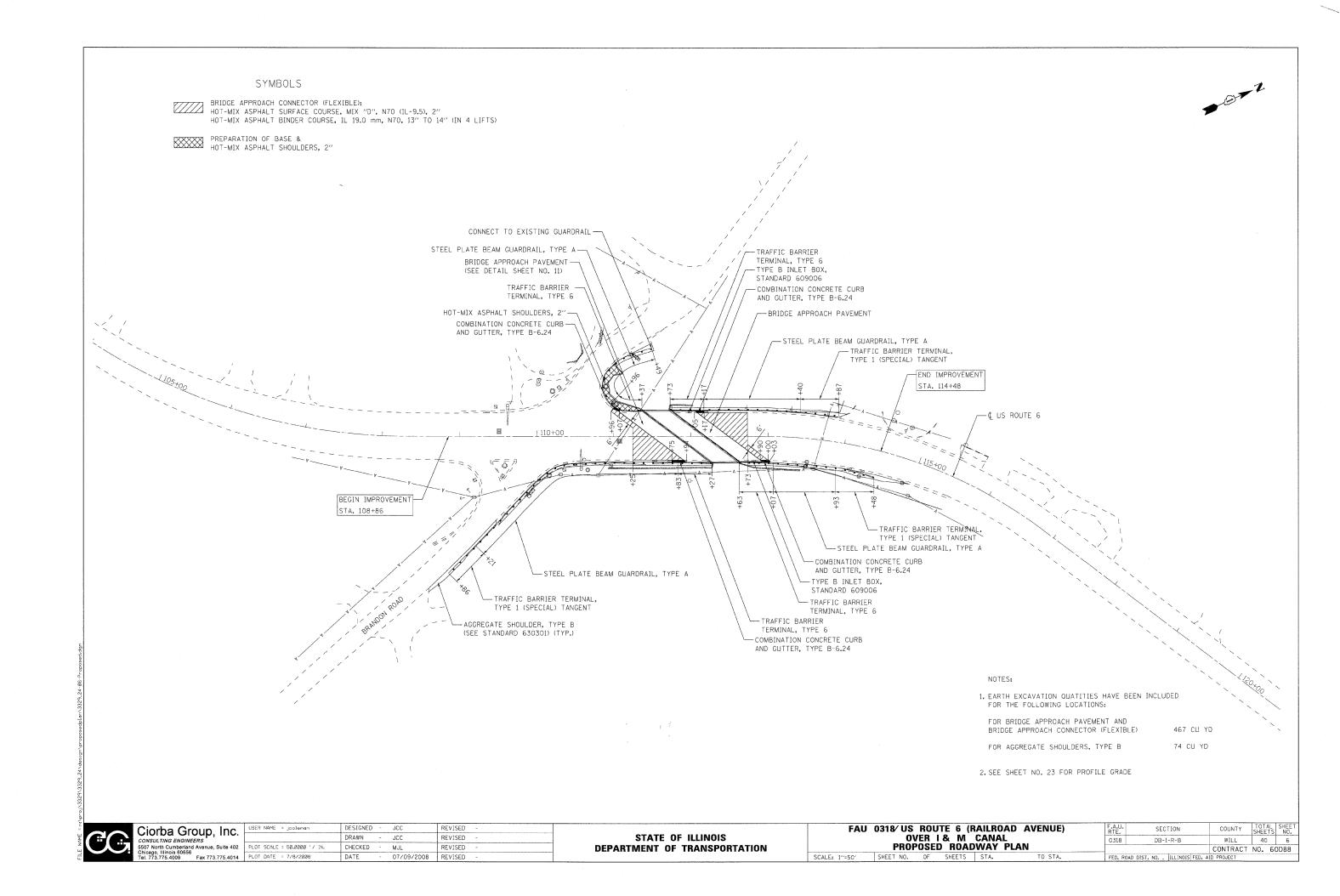
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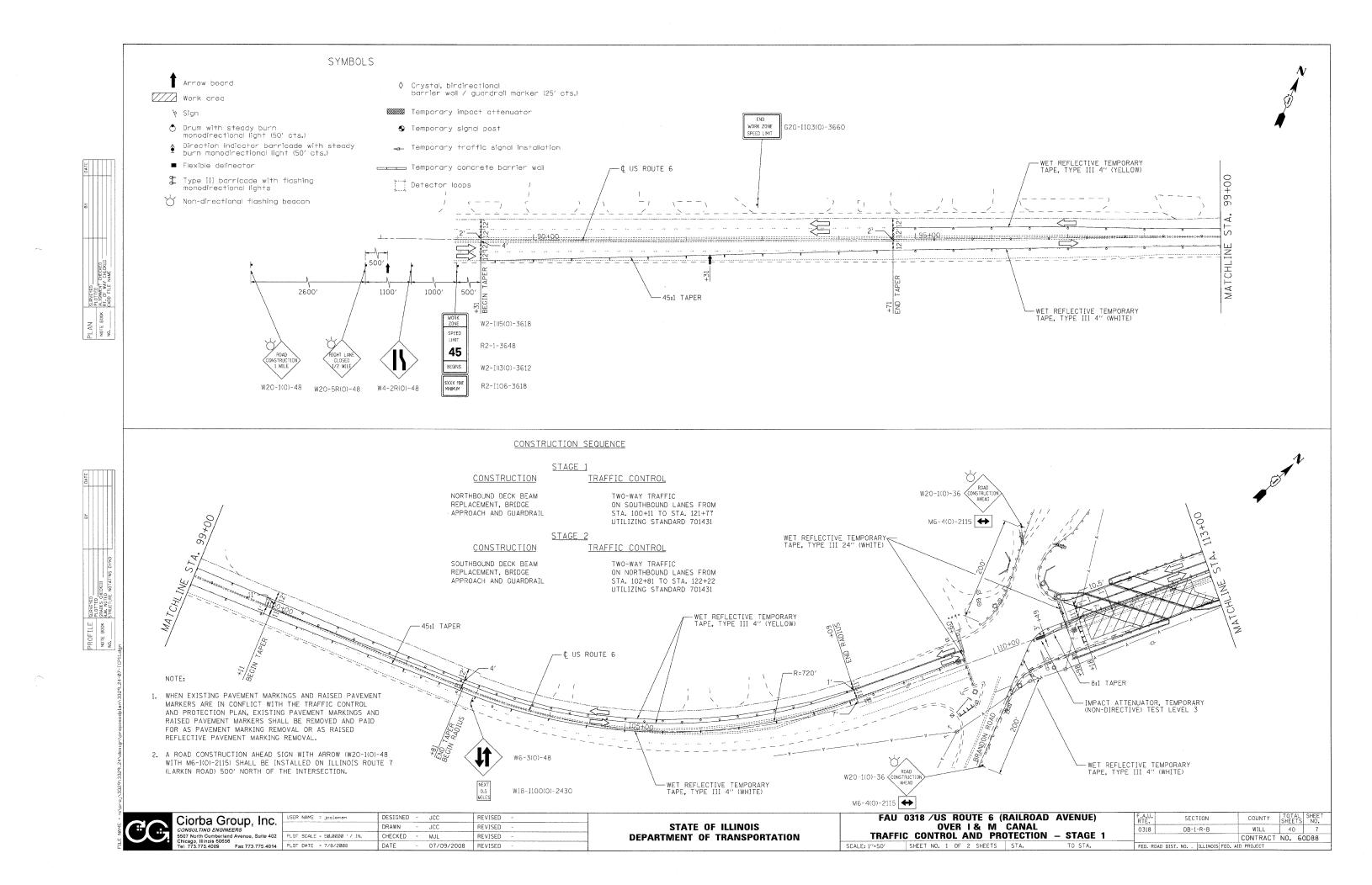
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

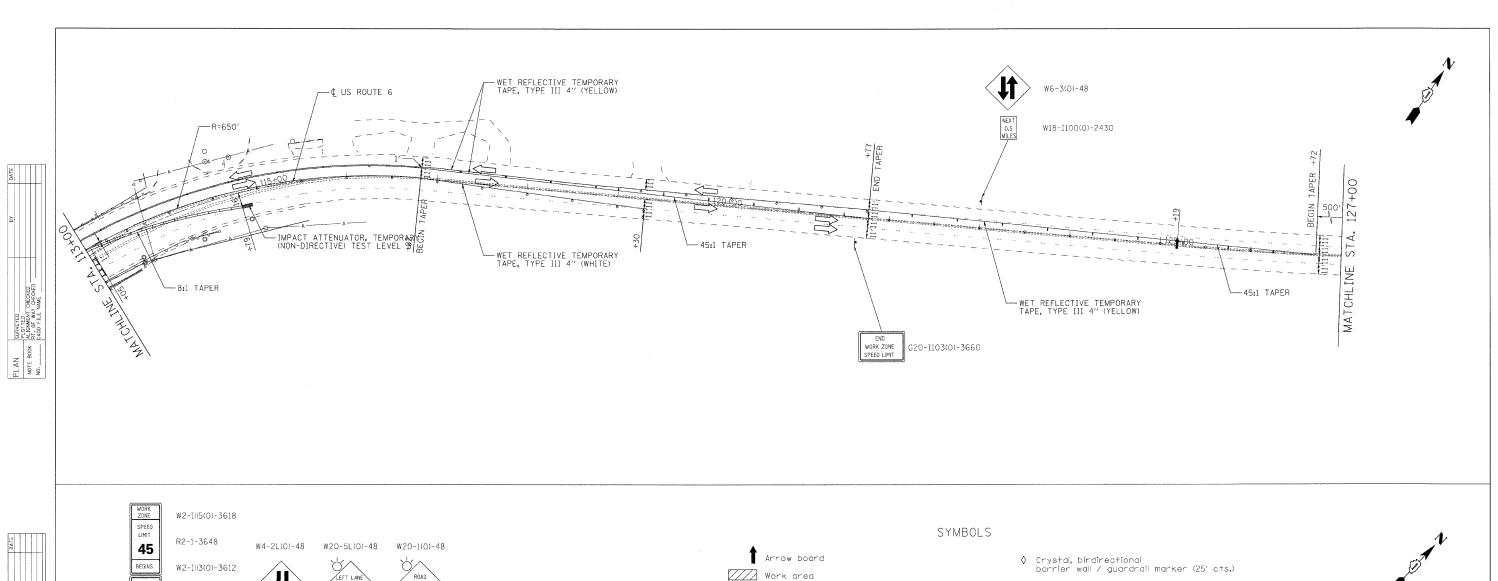
	FAU	0318/ US	ROUTE	6 (R	AILROA	D AVENUE	)
		OV	/ER 18	M (	CANAL		
		ALIGNME	NT AN	D CON	NTROL	POINTS	
ALF.	1"=200"	SHEET NO.	OF S	HEETS	STA.	TO STA.	

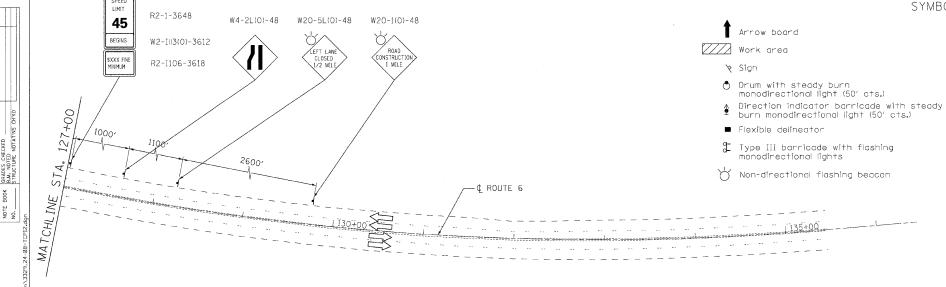
F.A.U. RTE.		SEC	NOIT	COUNTY	TOTAL SHEETS	SHEET NO.	
0318		DB-1	l-R-B	WILL	40	4	
					CONTRACT	NO. 6	0D88
FED. R	DAD DIST	NO	ILLINOIS	FED. A	ID PROJECT		











Temporary impact attenuator

Temporary signal post

■ Temporary traffic signal installation

Temporary concrete barrier wall

Detector loops

NOTE

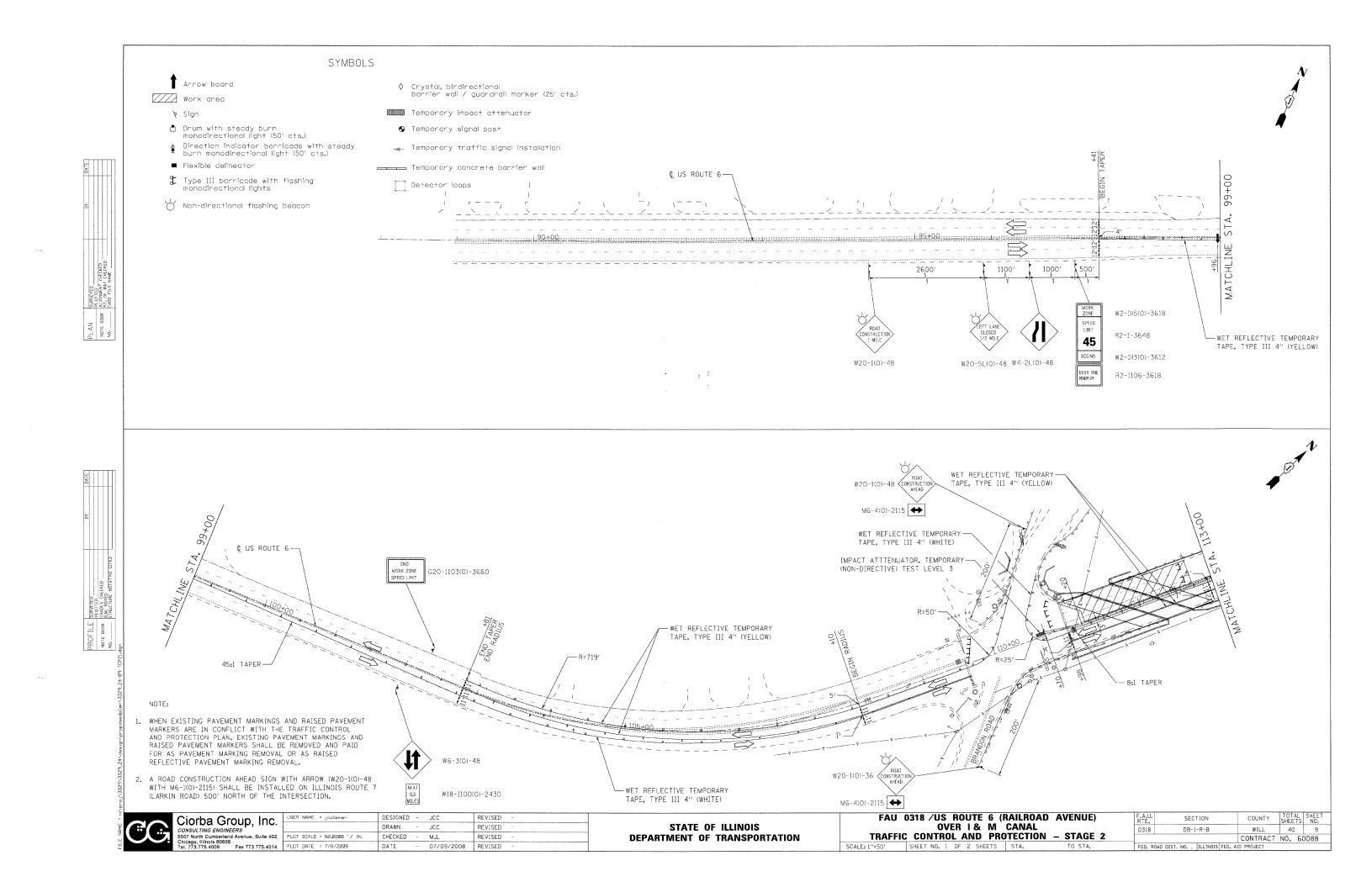
WHEN EXISTING PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS ARE IN CONFLICT WITH THE TRAFFIC CONTROL AND PROTECTION PLAN, EXISTING PAVEMENT MARKINGS AND RAISED PAVEMENT MARKERS SHALL BE REMOVED AND PAID FOR AS PAVEMENT MARKING REMOVAL OR AS RAISED REFLECTIVE PAVEMENT MARKING REMOVAL.

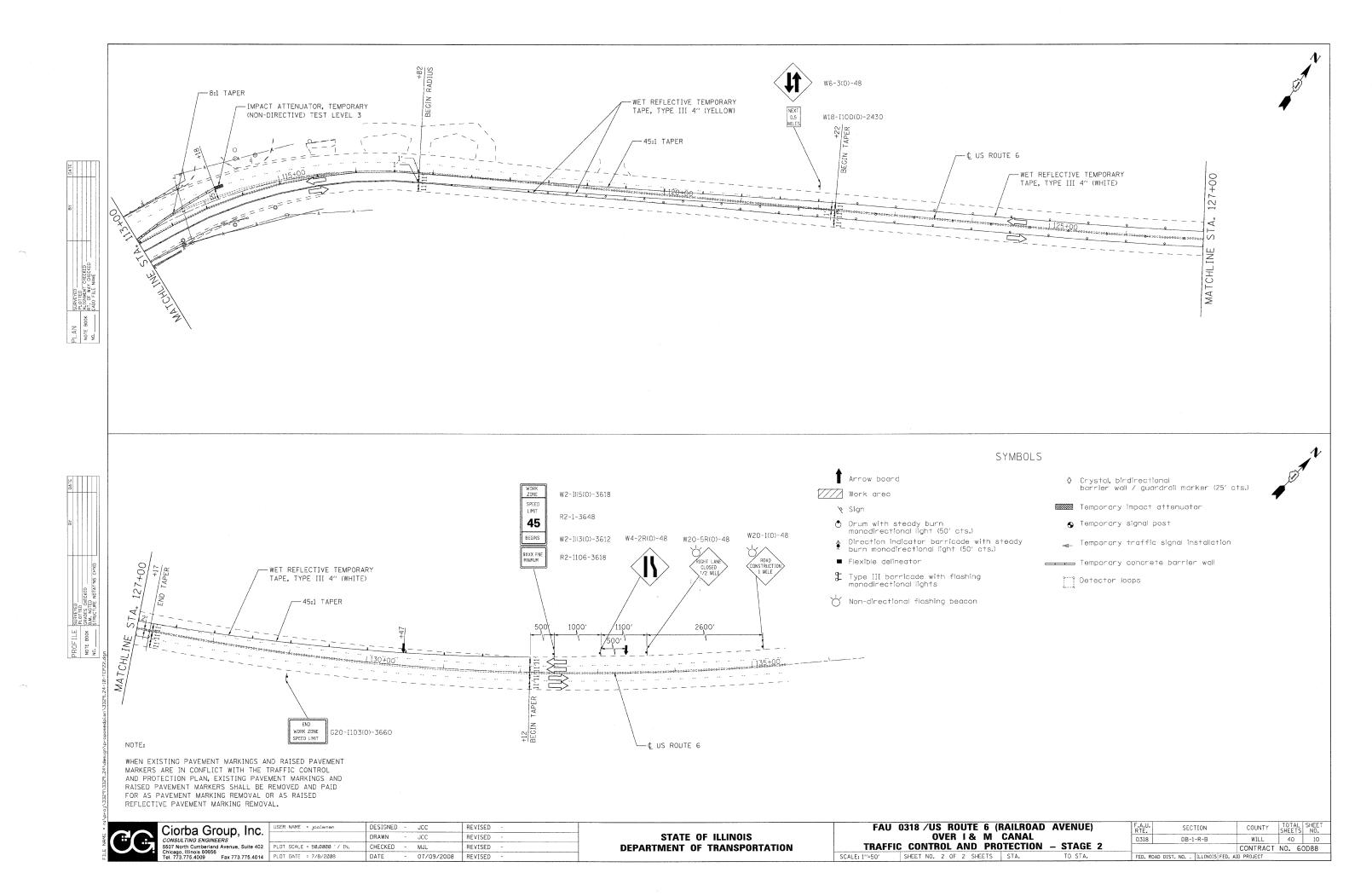
<u>a</u> 0	Ciorba Group, Inc.
( " (	CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402
	Chicago, Illinois 60656
2.0	Tel. 773.775.4009 Fax 773.775.4014

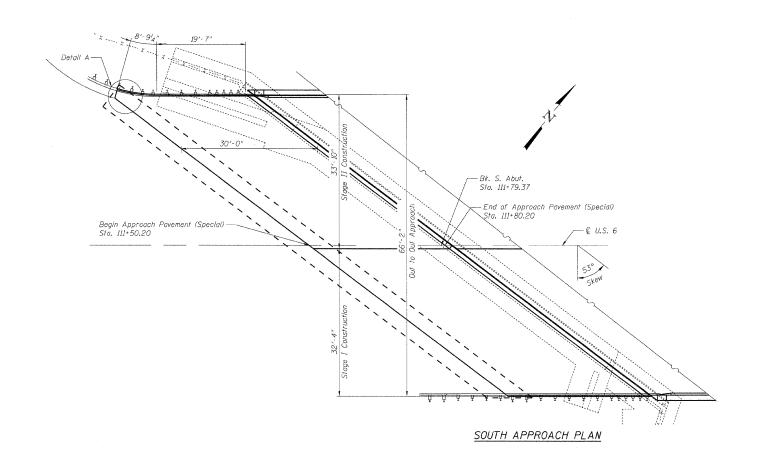
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2	PLOT SCALE = 50.0000 '/ IN.	CHECKED	-	MJL	REVISED -	
4	PLOT DATE = 7/8/2008	DATE	-	07/09/2008	REVISED -	
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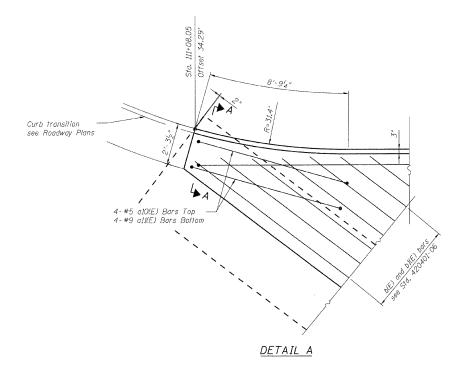
FAU				RAILROAD CANAL	AVENUE)	
TRAFFIC	CONT	ROL A	ND PRO	TECTION	- STAGE	1
SCALE . 1//- EO/	SHEET NO	2 OF 2	SHEETS	STA	TO STA	

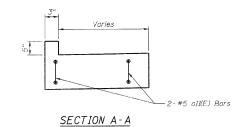
0318 DB-1-R-B									
0318 08-1-4-8	WILL 40		8						
	CONTRACT	NO. 60	38dC						
FED. ROAD DIST. NO ILLINOIS FED. AID	FED. ROAD DIST. NO ILLINOIS FED. AID PROJECT								



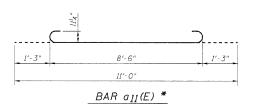








### 8′-6" \_BAR\_a<u>10</u>(E) \*\*



#### BILL OF MATERIAL

Bar	No.	Size	Length	Shape		
a10	4	#5	8'-6"			
a11	4	#9	11'-0"	حے		
Reinfor Epoxy (	cement Coated	Lb	190			
Bridge Paveme	Approa ent (Spe	ch cial)	Sq. Yd.	222		

\* 4-#5 a10(E) and 4-#9 a11(E) total weight 185 lb included in Bridge Approach Pavement (Special)

#### NOTES:

- D) See Bridge Approach Pavement Std. 420401-06 for additional details.
- 2) All reinforcement bars shall be Epoxy Coated.
- North Bridge Approach to follow Bridge Approach Std. 420401-06.
- Rebar quantity shown for information only and is included in the cost of Bridge Approach Pavement (Special).

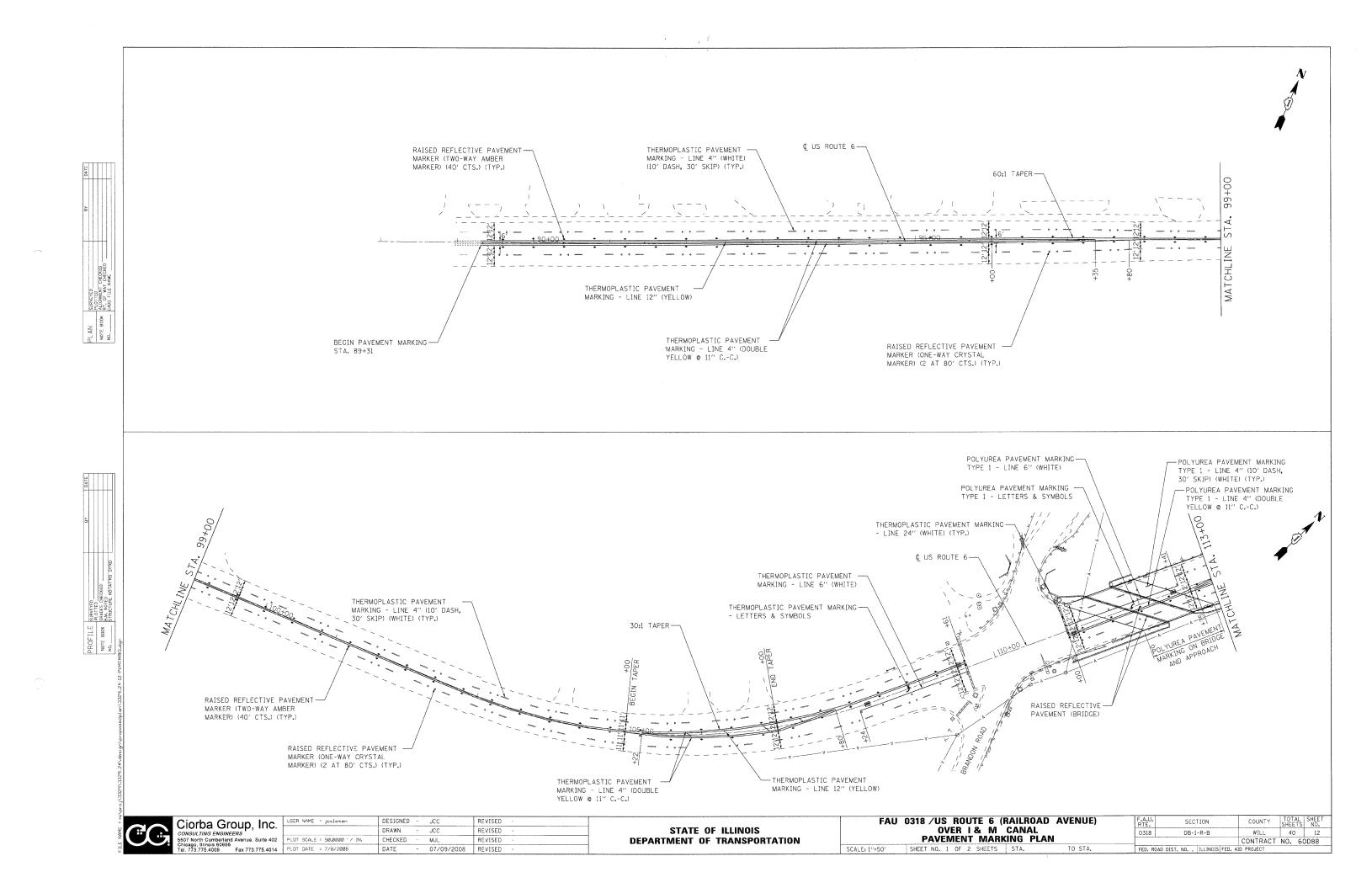
Ciorba Group, Inc.

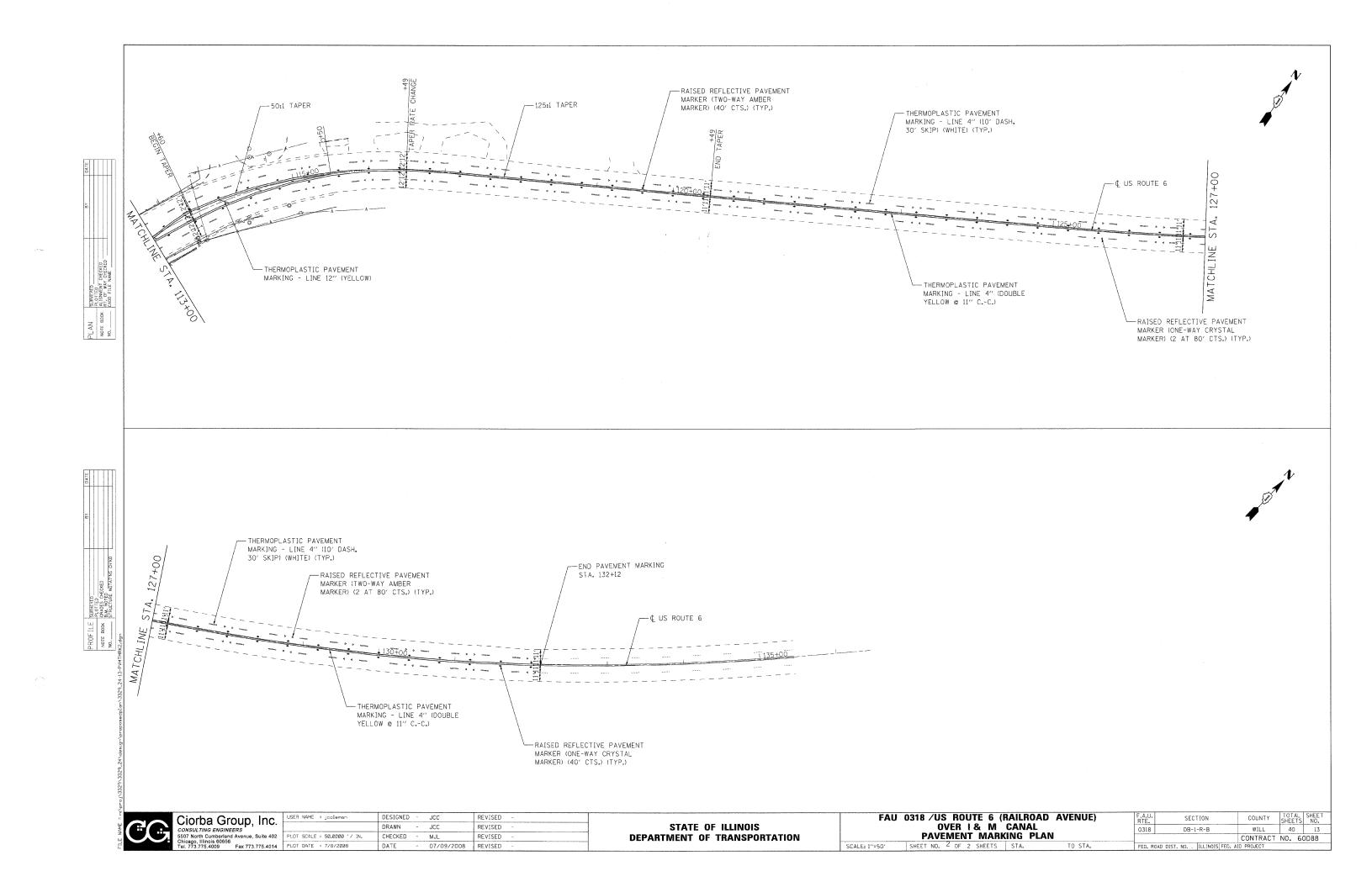
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
761, 773.775.4009
Fax 773.775.4014

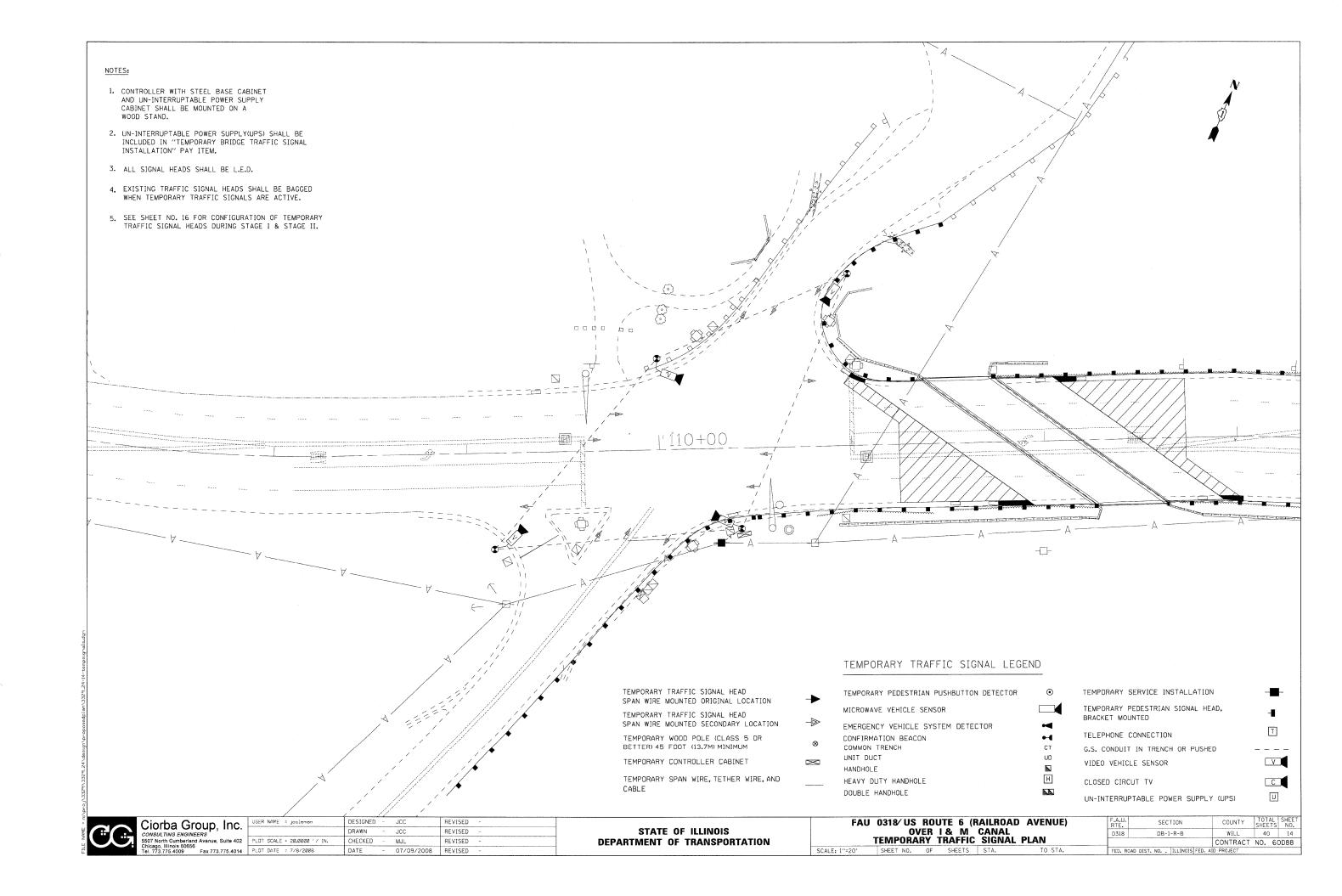
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14	PLOT DATE = 7/8/2008	DATE	-	07/09/2008	REVISED	-	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	FAU	0318/US	ROU	TE 6	(RAILROAD	AVENUE)
		0,	VER I	& M	CANAL	
	APF	PROACH	PAVE	MENT	(SPECIAL)	DETAILS
SCALE.		SHEET NO	OE	SHEETS	STA	TO STA

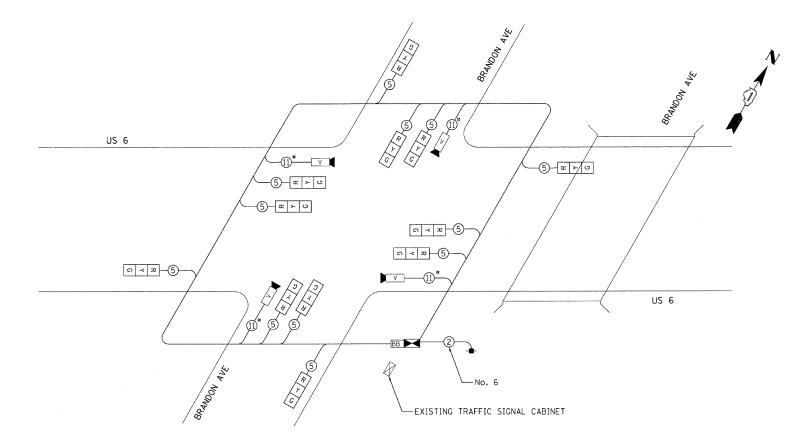






#### NOTES FOR TEMPORARY TRAFFIC SIGNALS

- 1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR, EVP WILL BE PAID FOR SEPARATELY.
- 2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET, ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT. A REPRESENTATIVE OF THE TRAFFIC SIGNAL CONTROLLER/CABINET VENDOR/SUPPLIER MUST BE PRESENT AT THE TRAFFIC
- 3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12" (300mm), HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATED HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMP-ORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS, EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
- 4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE RE-MOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- 5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- 6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
- 7. 24" WHITE STOP BAR TO BE INSTALLED AFTER THE INSTALLATION AND IMPLEMENTATION OF THE TEMPORARY TRAFFIC SIGNALS.
- 8. THE VIDEO CAMERA VENDOR/SUPPLIER REPRESENTATIVE WILL ASSIST THE CONTRACTOR IN THE EQUIPMENT SETUP/PLACEMENT OF CAMERAS AND WILL BE PRESENT AT THE TRAFFIC SIGNAL TURN ON.



# NOTE: OR AS SPECIFIED BY CAMERA VENDOR

# CONTROLLER SEQUENCE

SUMMARY OF QUANTITIES ITEM DESCRIPTION UNIT QUANTITY EACH 89000100 TEMPORARY TRAFFIC SIGNAL INSTALLATION

FOLITPMENT GROUND CONDUCTOR (GREEN COLOR CODED) SPLICE TO FRAME AND COVER IS REQUIRED FOR ALL HANDHOLES OR DOUBLE HANDHOLES THAT CARRY SIGNAL CABLES AND SERVICE CABLES.

guer	TDATE	I.D.O. FIC SIGNAL		ATTON		
Sdille		CAL SERVICE			5	TOTAL
4-10-4	TYPE	NO. LAMPS	INCAND.	TAGE ;	×%OPERATION	WATTAGE
7-6	SIGNAL (RED)	12	135	17	0.50	102
2	(YELLOW)	12	135	25	0.25	75
ż	(GREEN)	12	135	15	0.25	45
6	ARROW		135	12	0.10	
g.	PED. SIGNAL		90	25	1.00	
980	CONTROLLER	1	100	100	1.00	100.0
ě	ILLUM. SIGN		84		0.05	
ġ.	VIDEO CAMERA	4		45	1.00	180
Ç,						
3631						
ò						

TOTAL = ILLINOIS DEPARTMENT OF TRANSPORTATION

(847) 816-5489

US 6

US 6

-2-

PHASE DESIGNATION

FOUNDATION (DEPTH) FT. (m) GROUND CABLE LEGEND

◆ DUAL ENTRY PHASE

OL OVERLAP

PEDESTRIAN PHASE

NUMBER REFERS TO ASSOCIATED PHASE



48 - HOURS BEFORE DIGGING

#### TEMPORARY CABLE DIAGRAM LEGEND

TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)

TEMPORARY CONTROLLER CABINET

TEMPORARY SERVICE INSTALLATION

INDICATES NUMBER OF CONDUCTORS IN CABLE, ALL CONDUCTORS TO BE NUMBER 14 AWG WIRE UNLESS OTHERWISE NOTED.

EMERGENCY VEHICLE LIGHT DETECTOR

CONFIRMATION BEACON

PEDESTRIAN PUSHBUTTON DETECTOR

VEHICLE DETECTOR, INDUCTION LOOP

12" (300mm) PEDESTRIAN SIGNAL SECTION

MICROWAVE VEHICLE SENSOR

V VIDEO DETECTOR SENSOR

C CLOSED CIRCUIT TV

BB BATTERY - BACK UP

TELEPHONE CONNECTION

Ciorba Group, Inc.

COMPANY: COM. ED.

201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: KATHY NYSTROM PHONE:

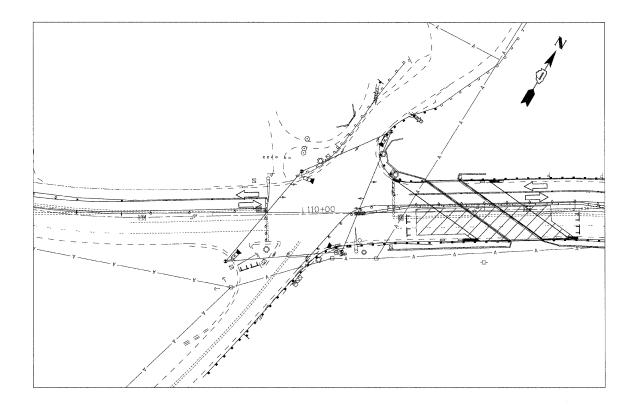
> USER NAME = Jcoleman DESIGNED - RBG REVISED DRAWN REVISED JAG CHECKED REVISED MJL Fax 773.775.4014 PLOT DATE = 7/8/2008 DATE 07/09/2008 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

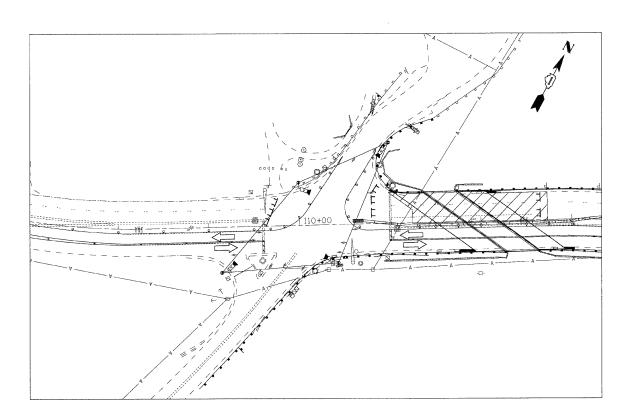
FAU 0318 /US ROUTE 6 (RAILROAD AVENUE) OVER I & M CREEK TEMPORARY CABLE PLAN & TEMPORARY PHASE DESIGNATION DIAGRAM

\_\_ OF \_\_ SHEETS STA.

WILL CONTRACT NO. 60D88



TRAFFIC CONTROL AND PROTECTION STAGE 1



TRAFFIC CONTROL AND PROTECTION STAGE 2

Ciorba Group, Inc.

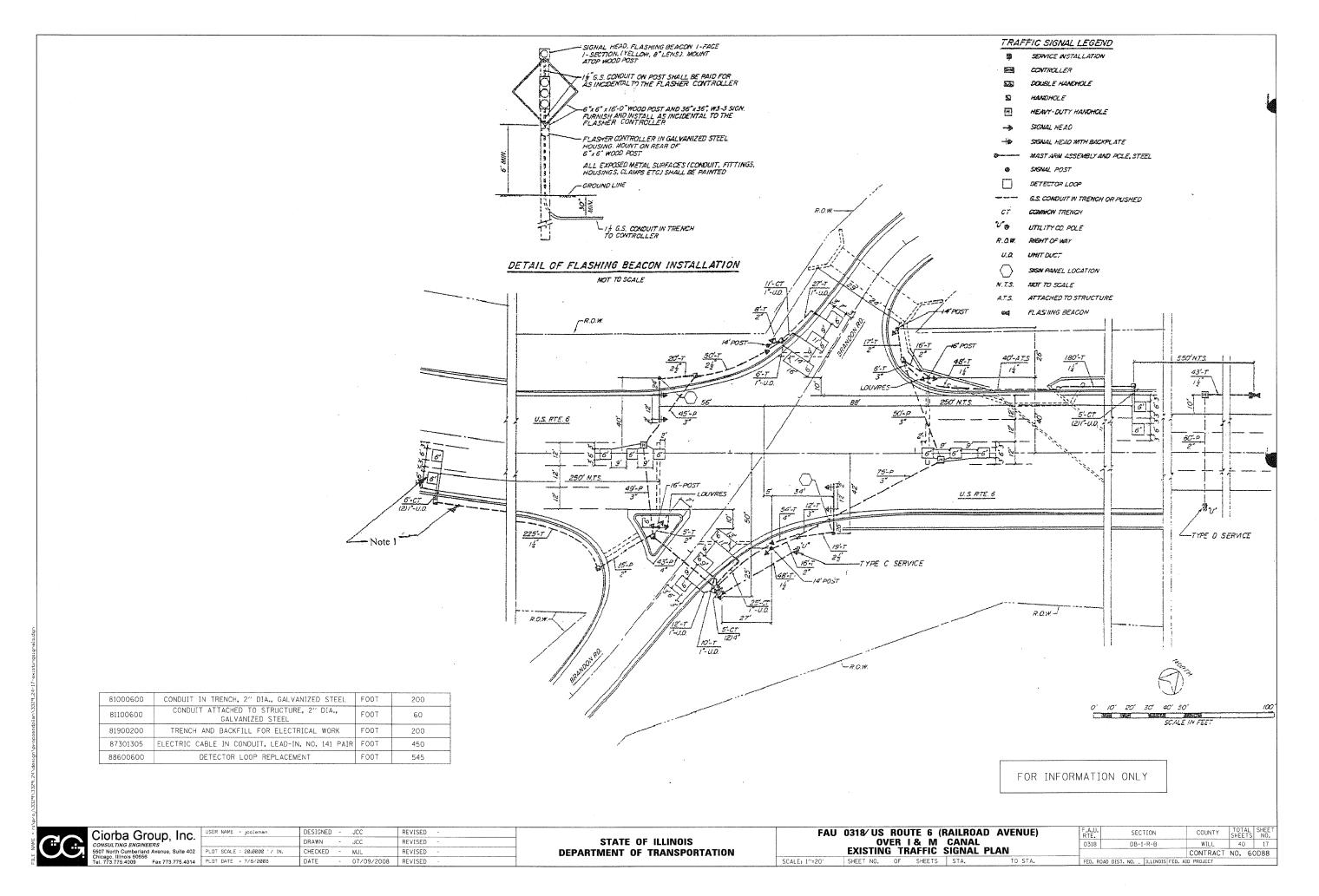
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009
Fax 773.775.4014

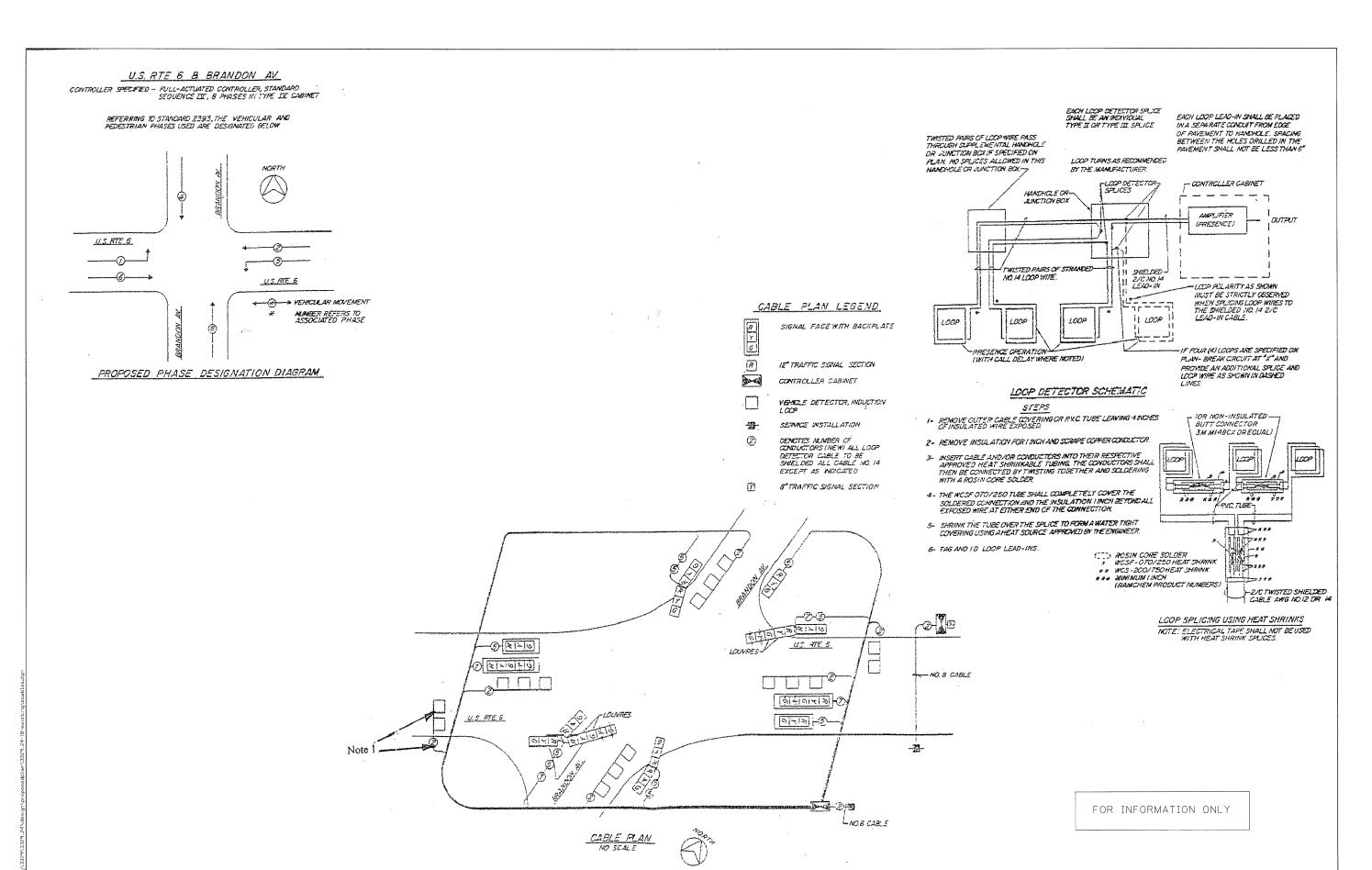
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14	PLOT DATE = 7/8/2008	DATE	-	07/09/2008	REVISED	-

FAU 0318/US ROUTE 6 (RAILROAD AVENUE)
OVER I & M CANAL
TEMPORARY TRAFFIC SIGNAL PLAN - STAGE CONFIGURATION

SCALE: 1"=20" SHEET NO. OF SHEETS STA. TO STA.

	F.A.U. SECTION								COUNTY	SHEE	AL TS	SHEET NO.
	0318	DB-1-R-B							WILL	40		16
N									CONTRACT	NO.	61	38dC
	FED. R	DAD	DIST.	NO.	-	ILLINOIS	FED.	AID	PROJECT			





a C	Ciorba G		I
	CONSULTING ENGIR	VEERS	L
	5507 North Cumberla Chicago, Illinois 6065	nd Avenue, Suite 402	L
	Tel. 773.775.4009	Fax 773.775.4014	١

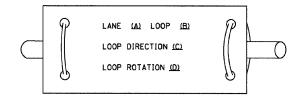
	USER NAME = jcolemen	DESIGNED	-	JCC	REVISED	-	
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4	PLOT DATE = 7/8/2008	DATE	-	07/09/2008	REVISED	-	

FAU					D AVENUE)
	OV EXISTING			CANAL SIGNAL	PLAN
SCALE: 1"=20"	SHEET NO.	OF	SHEETS	STA.	TO STA.

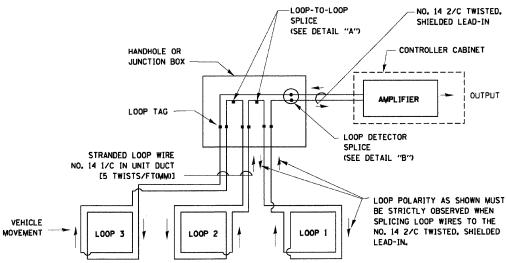
RTE.			SE	C.	TION			COUNTY	SHEE	TS	NO.
0318			DB	-1	-R-B			WILL	40		18
							T	CONTRACT	NO.	60	DB8
FED. R	OAD	DIST.	NO.	_	ILLINOIS	FED.	AIC	PROJECT			

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

#### LOOP LEAD-IN CABLE TAG

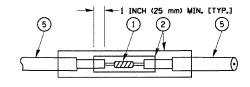


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP \*1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

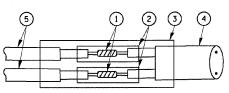


# DETECTOR LOOP WIRING SCHEMATIC

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



DETAIL "A" LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

#### LOOP DETECTOR SPLICE

- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

REVISIONS	
NAME	DATE
CADD	5/30/00
ADD NOTE NO. 8	11/12/01
BUREAU OF TRAFFIC	1-01-02

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE

DRAWN BY: RWP DESIGNED BY: DAD CHECKED BY: DAZ SHEET 1 OF 4

CONTRACT NO.

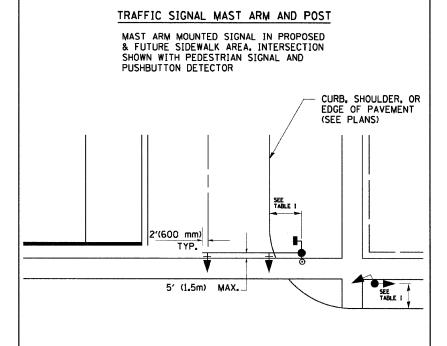
WILL TO STA.

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

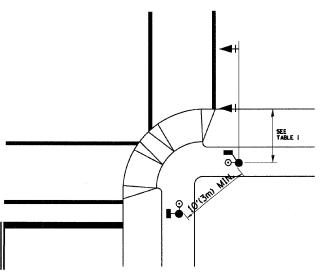
0318 DB-1-R-B

STA.

TE = 3/7/2007 ME = Ki\distatd\ta85.dgn



#### PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCO (SEE NOTE 1). TO MEET MUTCO REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

## NOTES:

0318 DB-1-R-B WILL 40 20 TO STA. FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

F.A. SECTION

CONTRACT NO. COUNTY TOTAL SHEET SHEETS NO.

1. AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION. EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.

AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.

PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:

- A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
- B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
- C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
- E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK
- 2. PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS VISION WHICH PERTAINS TO THE CROSSWALK
- 3. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3,0m) BUT NOT MORE THAN 15 FT (4,5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- 4. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

#### PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

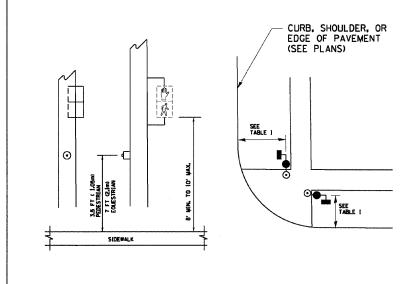


TABLE I

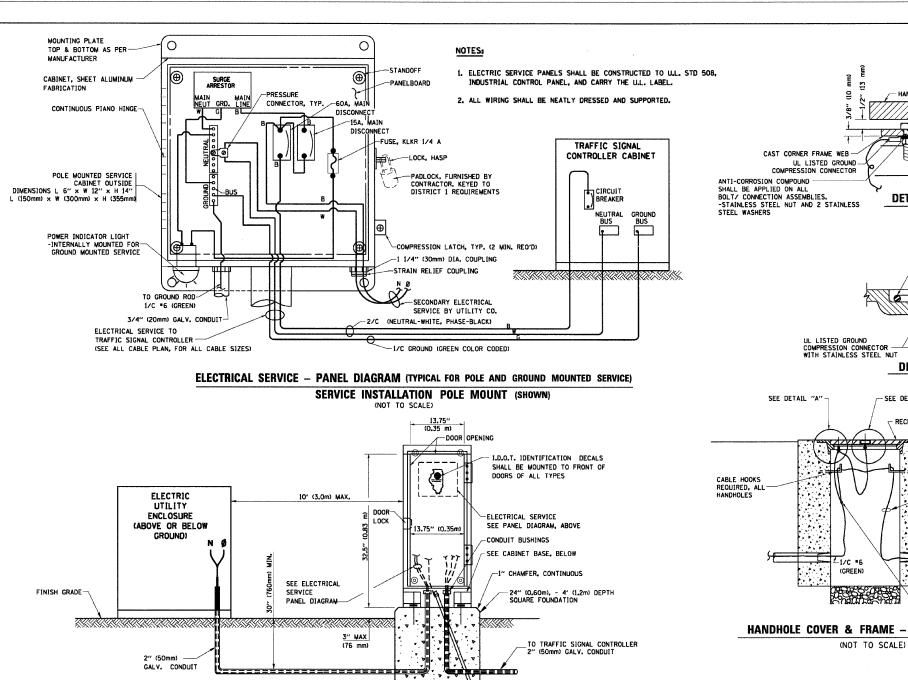
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD TRAFFIC SIGNAL DESIGN DETAILS SCALE: NONE

DESIGNED BY: DAD CHECKED BY: DAZ SHEET 2 OF 4

TS05

DATE NAME SCALE NAME



(413 mm) 16,25" (0,29 m)

**CABINET - BASE BOLT PATTERN** 

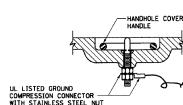
CABINET BASE-

-3/4" × 10' (20mm × 3.0m) COPPER CLAD GROUND ROD

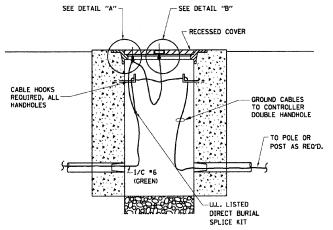
**SERVICE INSTALLATION** 

**GROUND MOUNT** 

HANDHOLE COVER DETAIL "A"



DETAIL "B"



#### HANDHOLE COVER & FRAME - GROUNDING DETAIL

(2) 1/2"  $\times$  1 1/4" STAINLESS STEEL BOLT WITH SPLIT LOCK WASHER AND NYLON INSERT LOCKOUT WELDED TO FRAME AND TO COVER. (TYPICAL) HEAVY DUTY COPPER COMPRESSION GROUNDING TERMINAL (TYPICAL) EXISTING HANDHOLE FRAME AND COVER GROUNDING CABLE
(PAID FOR SEPARATELY)

#### EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL

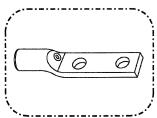
(NOT TO SCALE)

NOTES:

#### CONTRACT NO. COUNTY TOTAL SHEET NO. RTE. SECTION WILL 0318 DB-1-R-B TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

#### GROUNDING SYSTEM

- 1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE CHANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA,  $\times$  10'-0" (20mm  $\times$  3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC. ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
- 2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- 3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- 4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

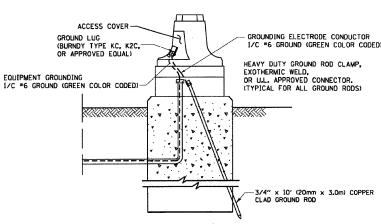




HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)

3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EUAL)

. ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED. GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6,5' (2,0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.

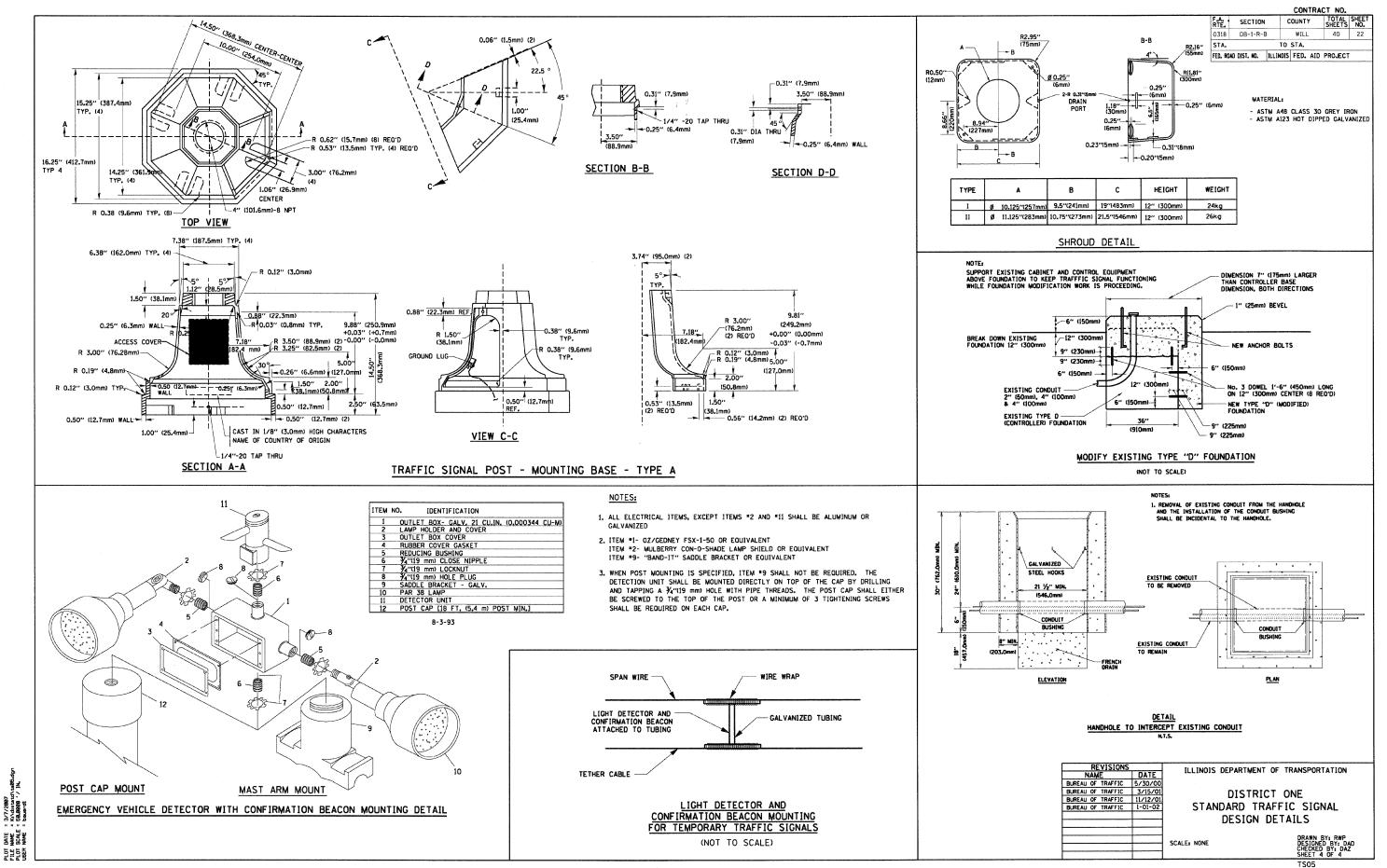


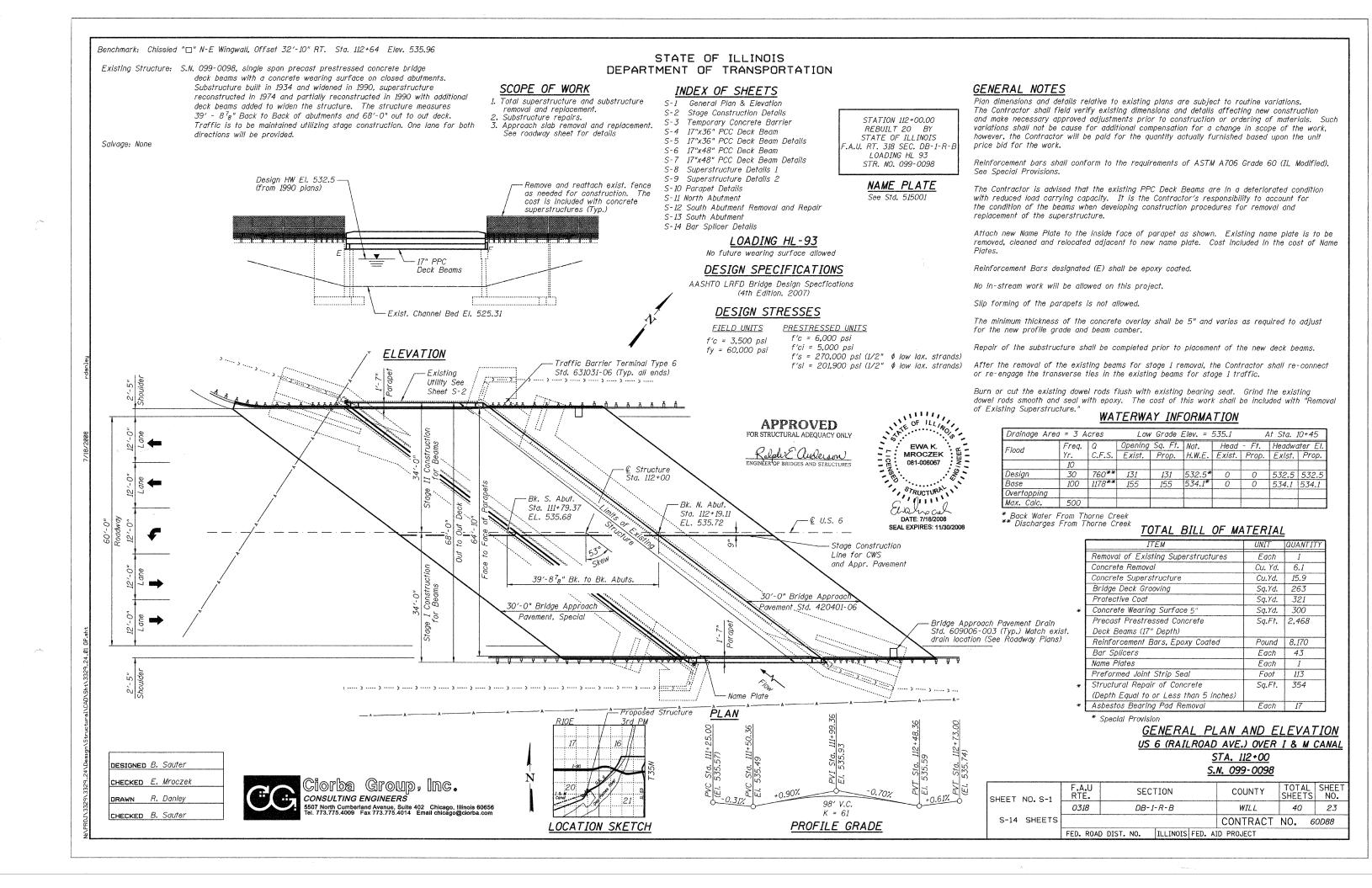
#### MAST ARM POLE / POST-GROUNDING DETAIL

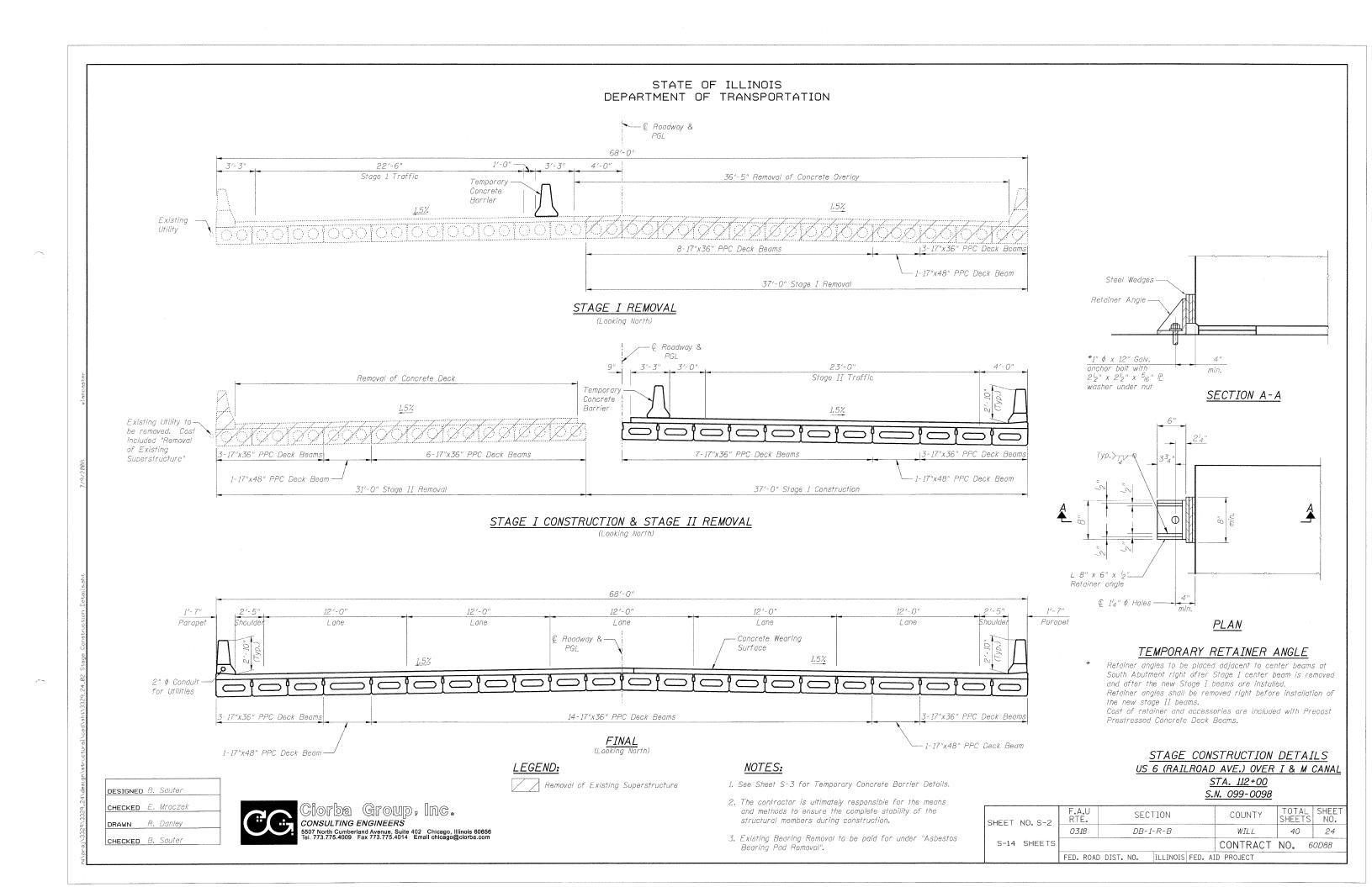
REVISIONS		THE INOIS DEPARTME	ENT OF TRANSPORTATION
NAME	DATE	ILLINOIS DEI ANTINE	IN OF TRANSFORTATION
CADD	5/30/00		
CADD	3/15/01	DICTI	RICT ONE
BUREAU OF TRAFFIC	1/01/02		
		STANDARD 1	TRAFFIC SIGNAL
			<del>-</del>
		DESIG	N DETAILS
		COME MONE	DRAWN BY: RWP
		SCALE: NONE	DESIGNED BY: DAD CHECKED BY: DAZ
			SHEET 3 OF 4

DATE VAME SCALE NAME

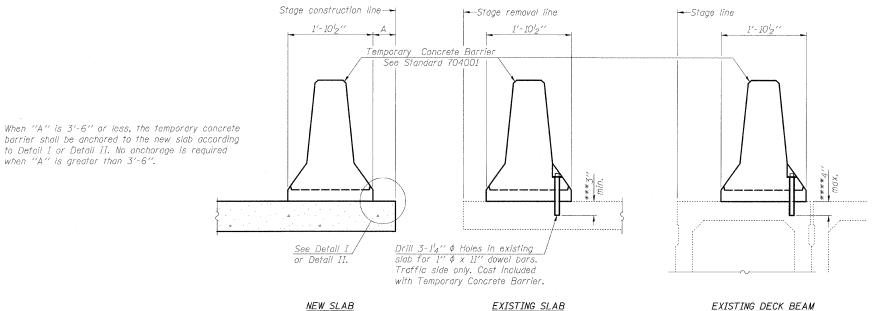
TS05







EXISTING DECK BEAM



#### NOTES

Detail I - With Bar Splicer or Couplers: Connect one (I) 1"x7"x10" steel ₧ to the top layer of couplers with  $2^{-5}8'' \phi$  bolts screwed to coupler at approximate & of each barrier panel.

Detail II - With Extended Reinforcement Bars: Connect one (1) 1"x7"x10" steel P to the concrete slab or concrete wearing surface with 2-58"\$ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate © of each barrier panel.

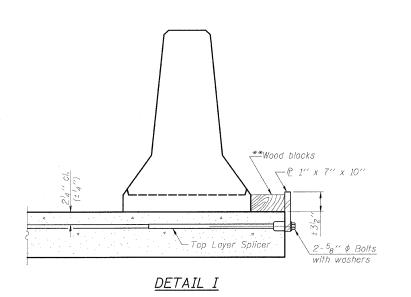
Cost of anchorage is included with Temporary Concrete Barrier. The  $1^{\prime\prime}$  x  $7^{\prime\prime}$  x  $10^{\prime\prime}$  plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

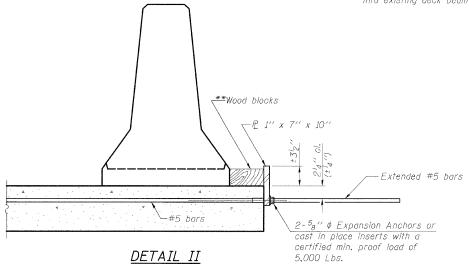
#### SECTIONS THRU SLAB OR DECK BEAM

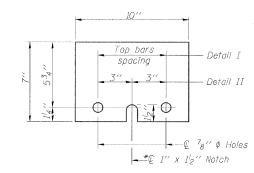
EXISTING SLAB

\*\*\*Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

\*\*\*\*\*If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.







STEEL RETAINER P 1" x 7" x 10"

\*Required only with Detail II

\*\*Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

TEMPORARY CONCRETE BARRIER US 6 (RAILROAD AVE.) OVER I & M CANAL STA. 112+00 S.N. 099-0098

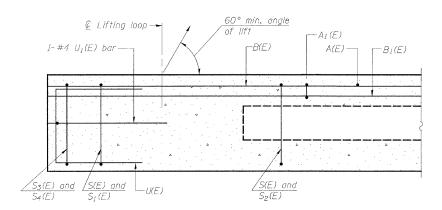
TOTAL SHEET SHEETS NO. SECTION COUNTY SHEET NO. S-3 0318 DB-1-R-B WILL40 25 S-14 SHEETS CONTRACT NO. 60D88 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

DESIGNED B. Sauter CHECKED E. Mroczek DRAWN R. Danley CHECKED B. Sauter

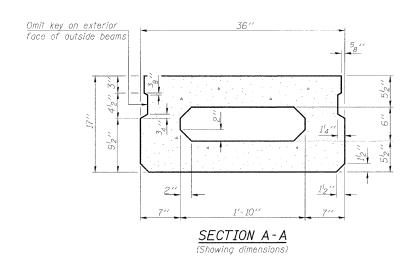
5-16-08

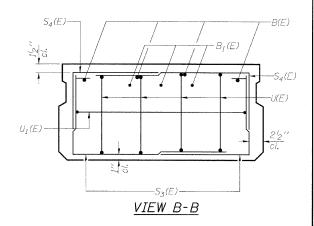
R-27

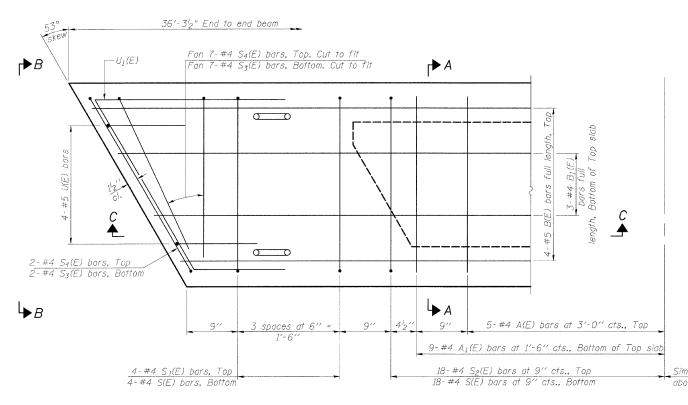




#### SECTION C-C

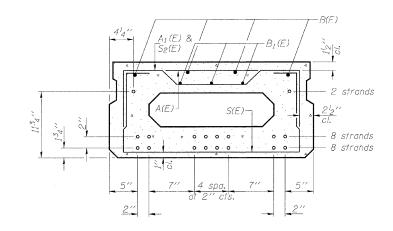






PLAN VIEW

Note: Spacing of S(E) and  $S_2(E)$  bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



#### SECTION A-A

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

## BAR LIST ONE BEAM ONLY

	(For	informa	tion only)	
Bar	No.	Size	Length	Shape
A(E)	10	#4	2'-7"	
$A_1(E)$	18	#4	2'-11''	
B(E)	4	#5	36'-0"	
D1(E)	49	#4	4'-7"	
$B_1(E)$	3	#4	36'-0"	
S(E)	44	#4	5'-9''	
$S_1(E)$	8	#4	4'-3''	
$S_2(E)$	36	#4	4'-6''	r—1
S3(E)	18	#4	5′-9′′	]
S4(E)	. 18	#4	5'-4"	
U(E)	8	#5	3′-8′′	
11.7F)	0	#1	107 077	

Note: See sheet S-5 for additional details and Bill of Material.

\* Exterior Beams only

#### 17" X 36" PPC DECK BEAM US 6 (RAILROAD AVE.) OVER I & M CANAL STA. 112+00 S.N. 099-0098

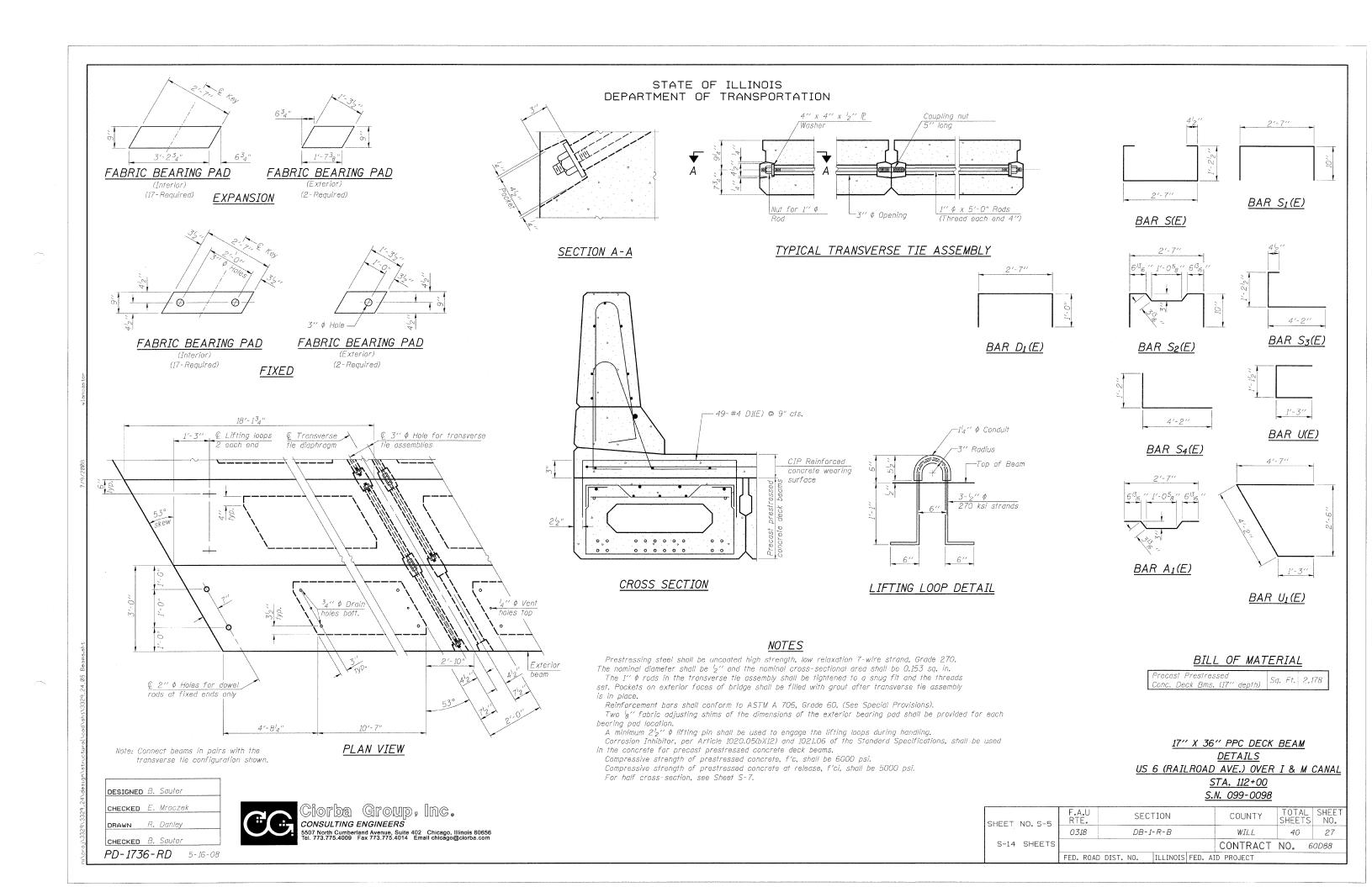
SHEET NO. S-4	F.A.U RTE.	SE	CTION		COUNTY	TOTAL SHEETS	SHEE NO.	
		0318	DB-	-1-R-B		WILL	40	26
S-14	SHEETS					CONTRACT	NO. 6	0D88
		FED. ROAD	DIST. NO.	ILLINOIS	FED.	AID PROJECT		

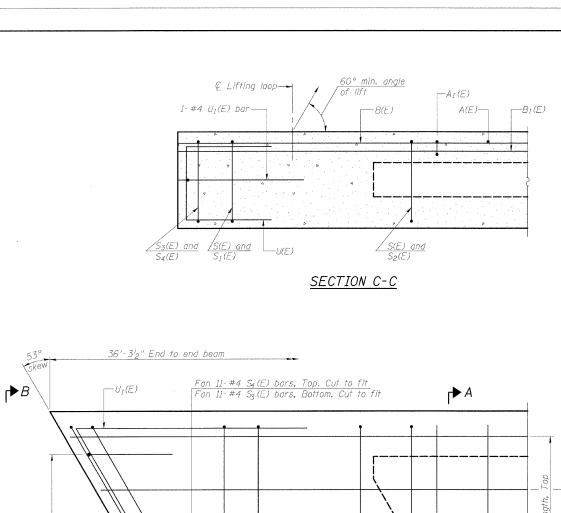
DESIGNED B. Sauter CHECKED E. Mroczek DRAWN R. Danley CHECKED B. Sauter

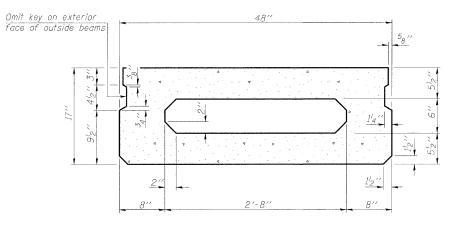
5-16-08

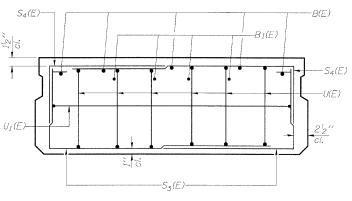
PD-1736-R











VIEW B-B

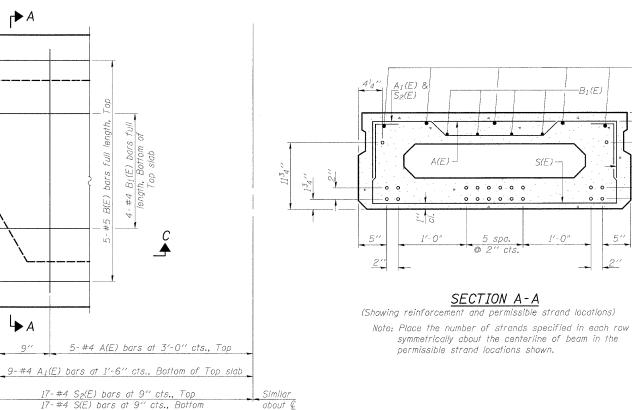
## SECTION A-A

000000

 $B_I(E)$ 

— 2 strands

— 10 strands — 10 strands



#### BAR LIST ONE BEAM ONLY

(For information only)

Bar	No.	Size	Length	Shape
A(E)	10	#4	3'-7"	
A1(E)	18	#4	3'-10''	~~
B(E)	4	#5	36'-0''	
$B_1(E)$	3	#4	36'-0''	
S(E)	48	#4	6'-9"	LJ
$S_I(E)$	8	#4	5'-3''	
$S_2(E)$	34	#4	5'-6''	r1
S3(E)	26	#4	7'-4"	
S4(E)	26	#4	6'-11''	
U(E)	12	#5	3'-8"	
$U_1(E)$	2	#4	12'-11''	$\overline{}$

Note: See sheet S-7 for additional details and Bill of Material.

Note: Spacing of S(E) and  $S_2(E)$  bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

4-#4 S<sub>I</sub>(E) bars, Top 4-#4 S(E) bars, Bottom

2-#4  $S_4(E)$  bars, Top 2-#4  $S_3(E)$  bars, Bottom

 $\triangleright_B$ 

DESIGNED B. Sauter

CHECKED E. Mroczek

DRAWN R. Danley

CHECKED B. Sauter PD-1748-R

5-16-08

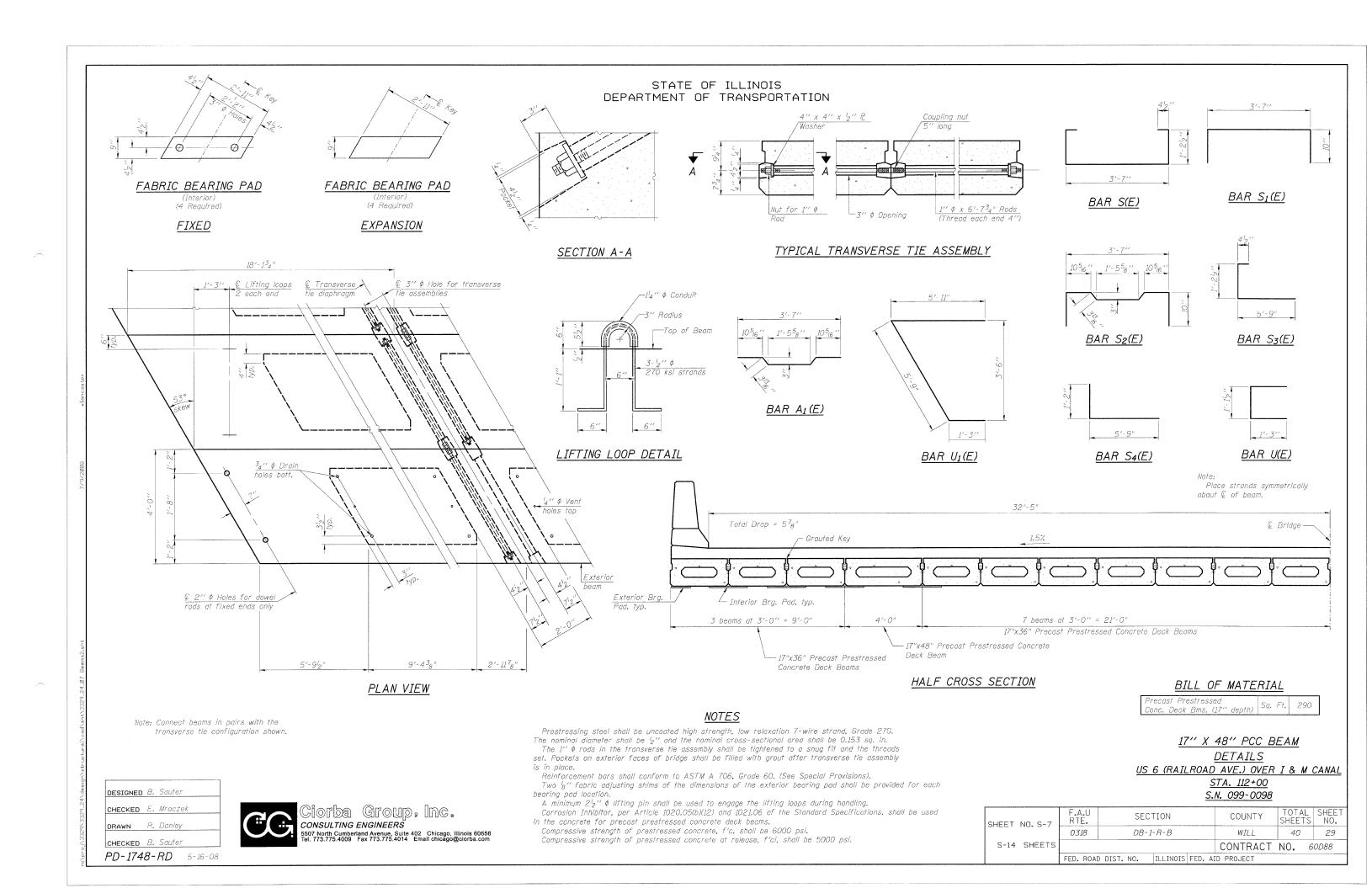
Ciorba Group, Inc. CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014 Email chicago@ciorba.com

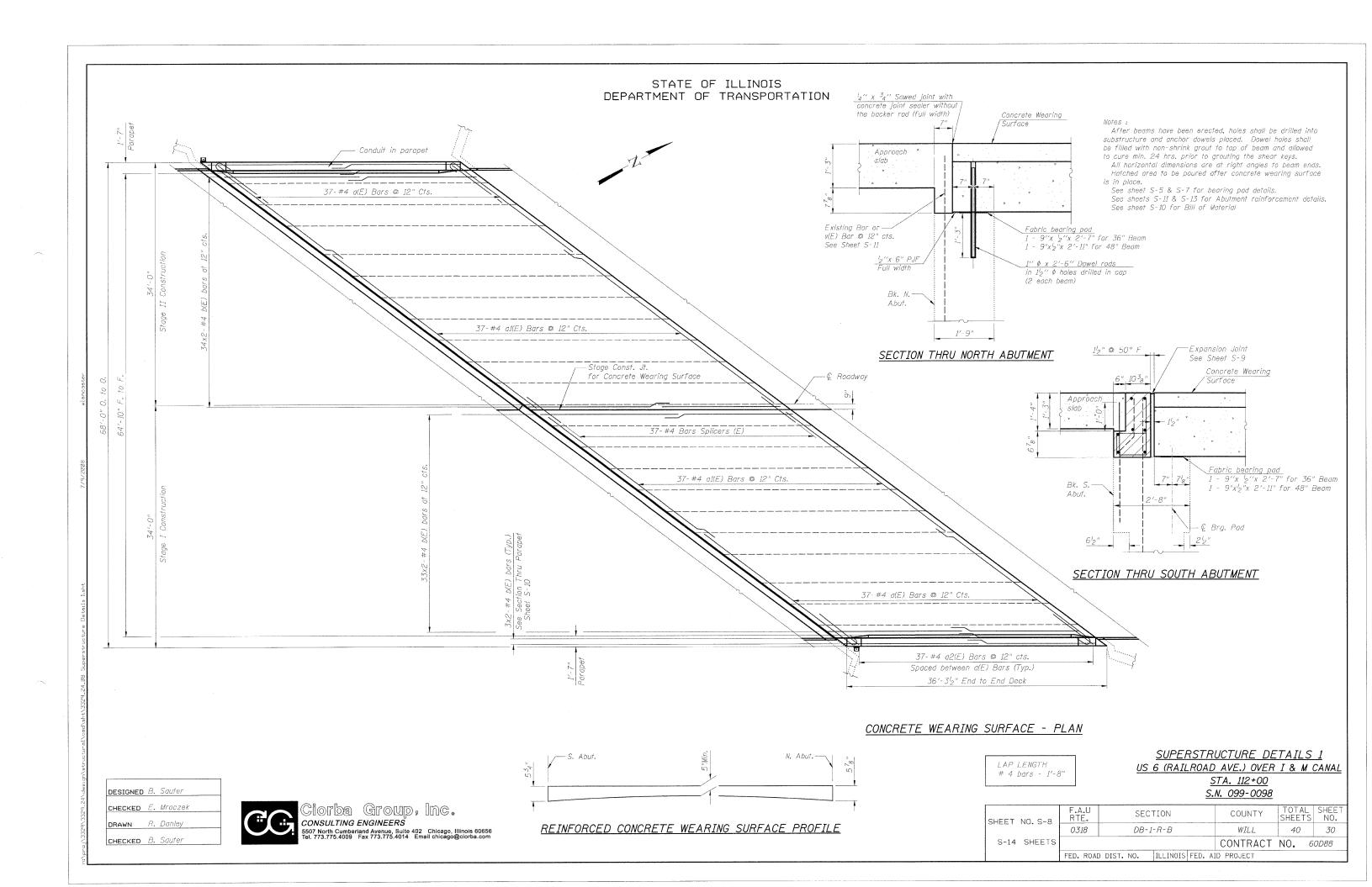
PLAN VIEW

3 spaces at 6" 1'-6"

#### 17" X 48" PCC DECK BEAM US 6 (RAILROAD AVE.) OVER I & M CANAL STA. 112+00 S.N. 099-0098

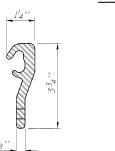
SHEET NO. S-6 S-14 SHEETS	F.A.U RTE.	SEC <sup>-</sup>	TION	COUNTY	TOTAL SHEETS	SHEET NO.
	0318	DB-1	-R-B	WILL	40	28
S-14 SHEETS				CONTRACT	NO. 6	0D88
	FFD. ROAL	DIST NO.	ILLINOIS FED. A	ID PROJECT	-	

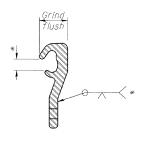




#### SECTION THRU STRIP SEAL JOINT FOR OVERLAY OVER DECK BEAMS

#### DETAIL A





#### LOCKING EDGE RAIL

#### LOCKING EDGE RAIL SPLICE

\* Omit weld at seal opening.

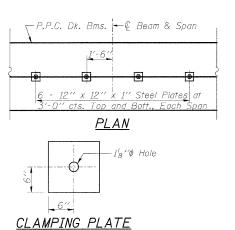
The strip seal shall be made continuous and shall have a minimum thickness of  $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.

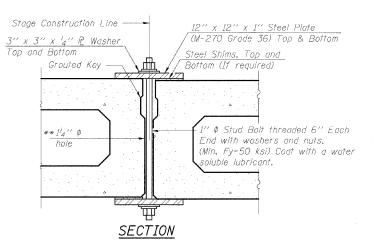
The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed,

The inside of the Locking Edge Rail groove shall be free of weld residue. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

The manufacturer's recommended installation methods shall be followed.

5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014 Email chicago@ciorba.com





#### SHEAR KEY CLAMPING DETAILS AT STAGE CONST. JT.

Cost included with Precast Prestressed Concrete Deck Beams. See Stage Construction Details for traffic lanes.

\*\* The fabricator shall cast 2" diameter semi-circular recesses in the sides of each beam adjacent to the stage construction line. These recesses should align to form a hole at the appropriate locations for the clamping device bolts. The Contractor shall show the details on the shop drawings.

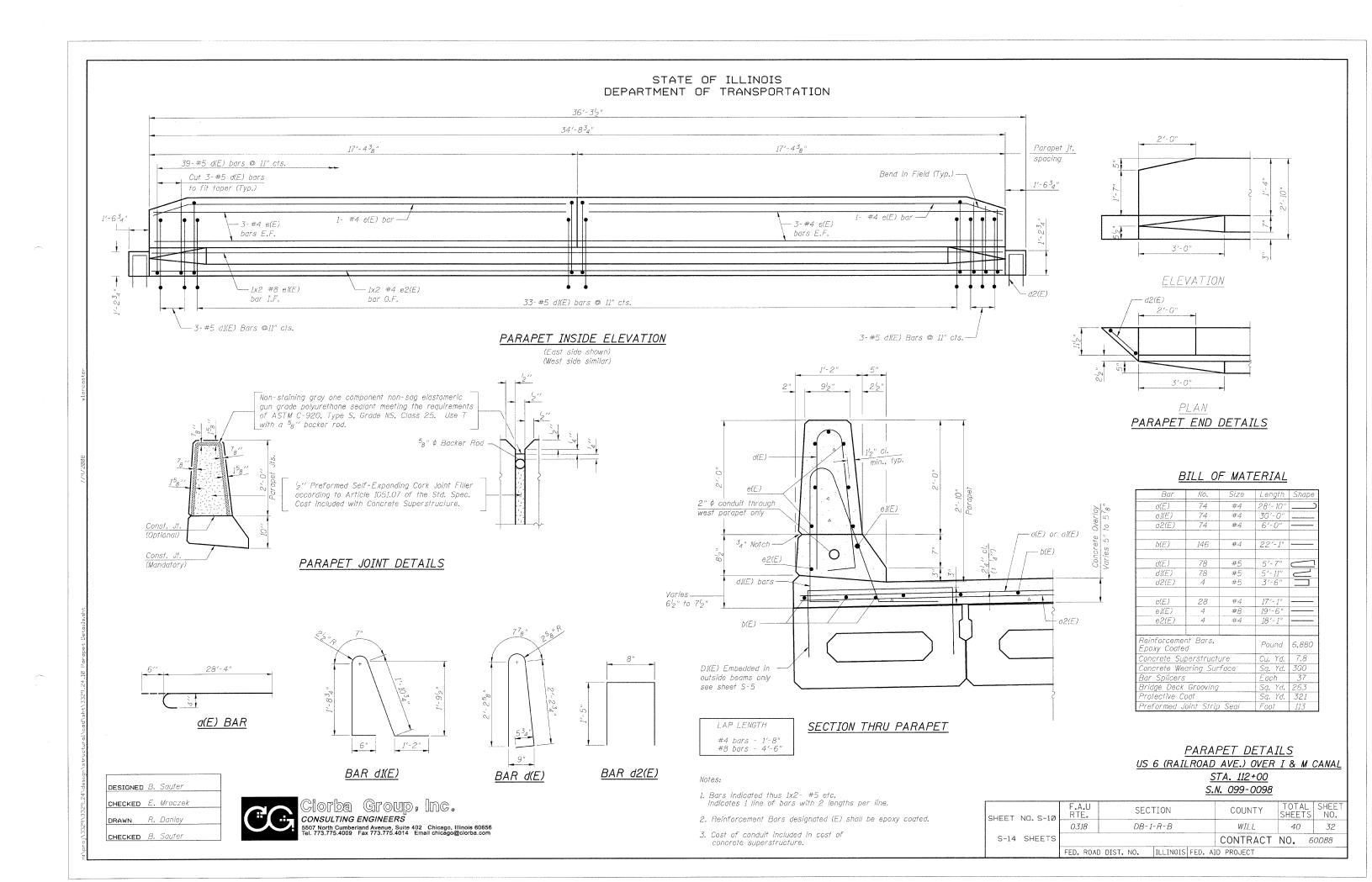
Note: For Bill of Materials see Sheet S-10.

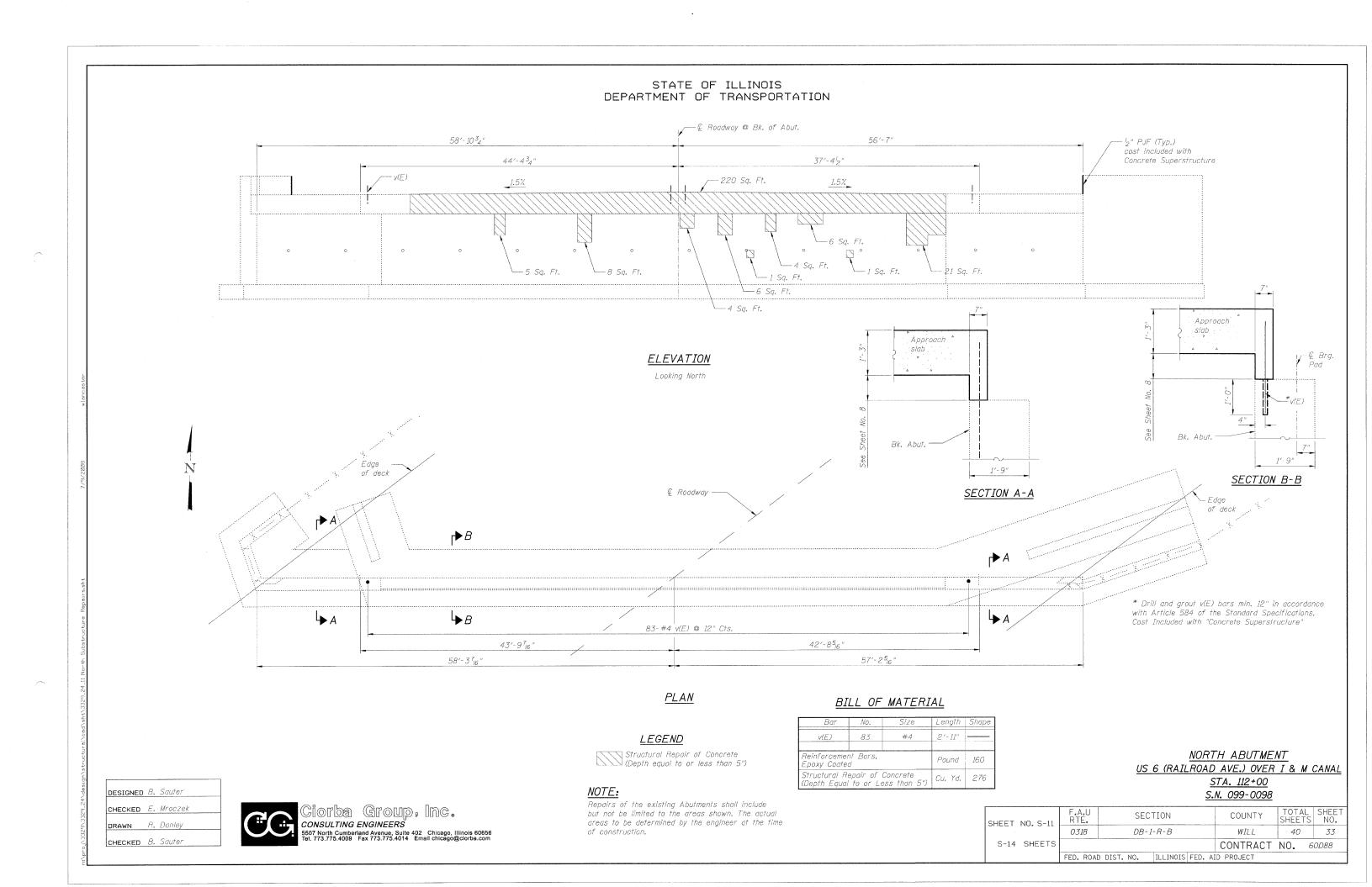
Ciorba Group, Inc. CONSULTING ENGINEERS

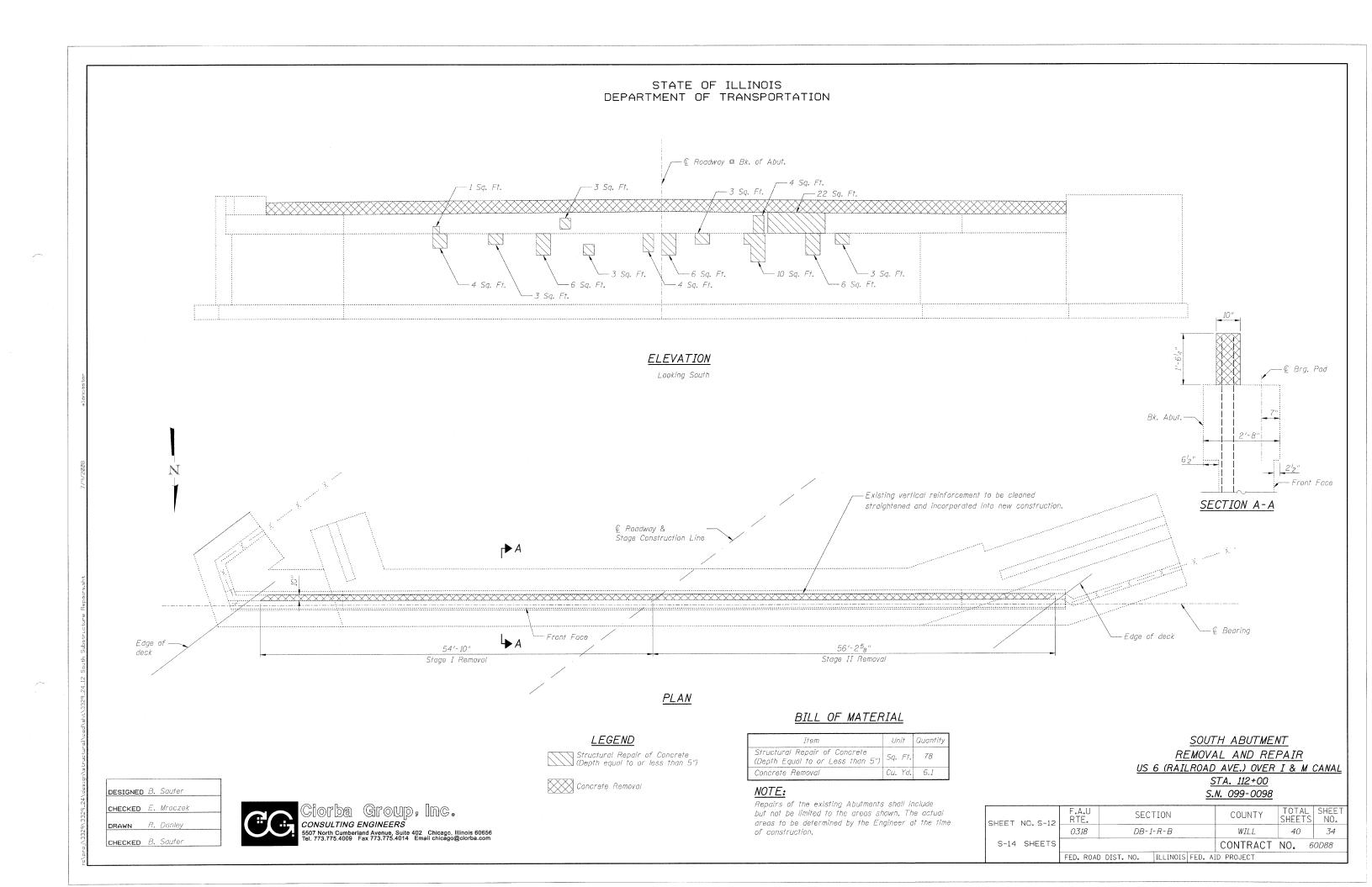
F.A.U RTE. TOTAL SHEET SHEETS NO. SECTION COUNTY SHEET NO. S-9 0318 DB-1-R-B WILL 40 31 S-14 SHEETS CONTRACT NO. 60D88 FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT

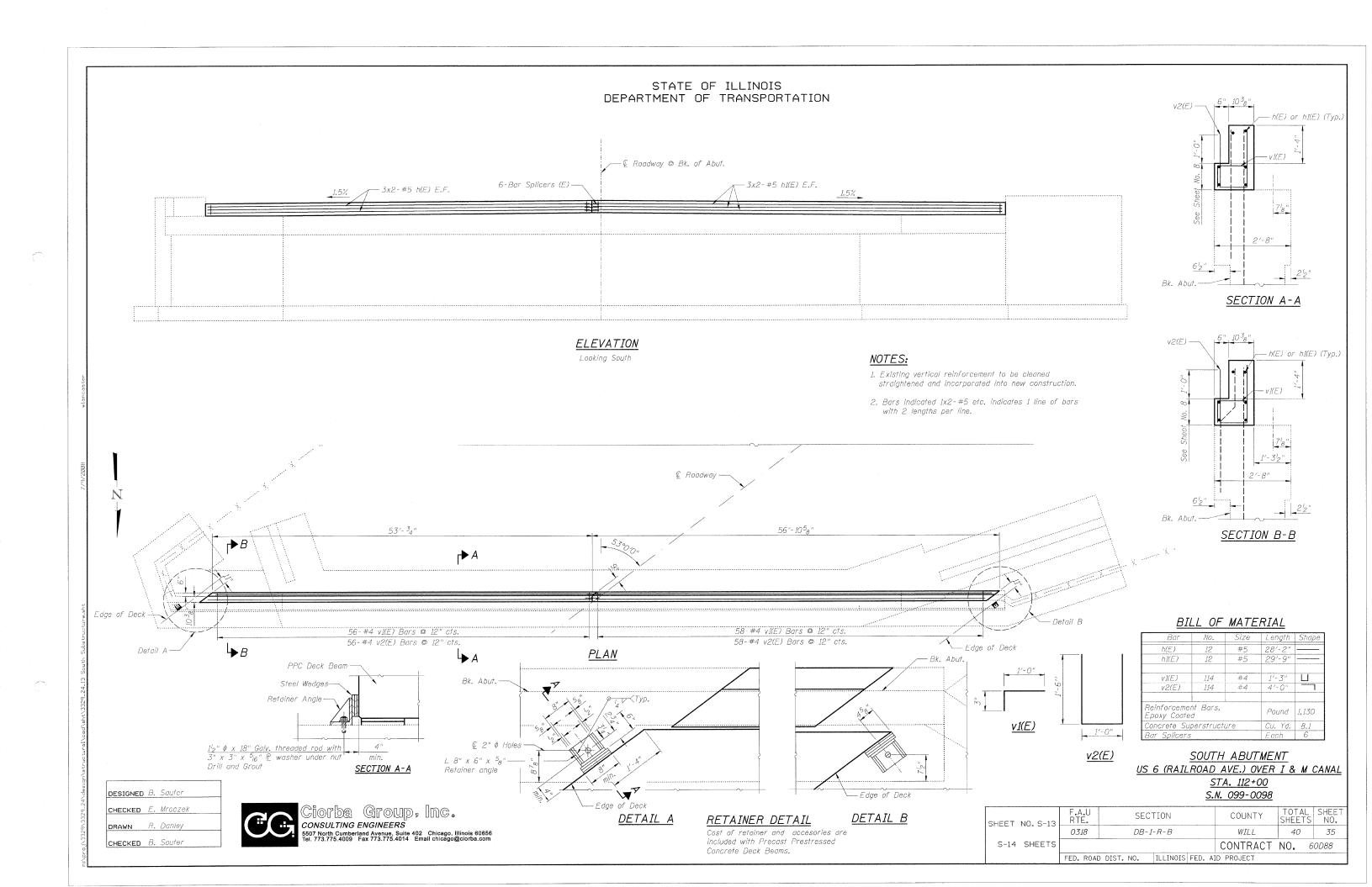
SUPERSTRUCTURE DETAILS 2 US 6 (RAILROAD AVE.) OVER I & M CANAL STA. 112+00

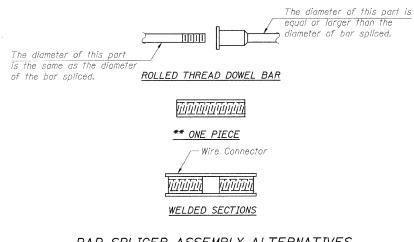
S.N. 099-0098





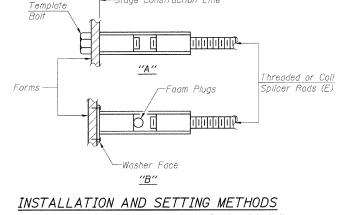






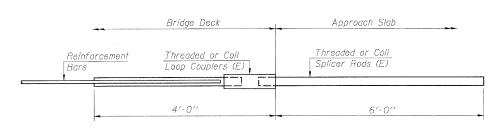
#### BAR SPLICER ASSEMBLY ALTERNATIVES

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

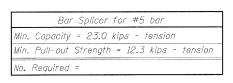


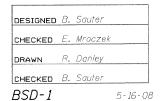
Stage Construction Line

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

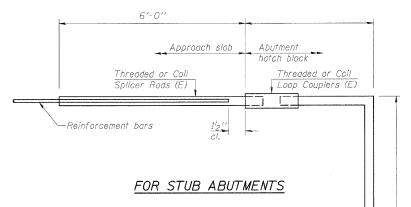


#### FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS









	Bai	Splicer	for #	‡5 bar		
Min.	Capacity	= 23.0	kips	- tensia	วก	
Min.	Pull-out	Strength	= 12	.3 kips	- tensio	n
No.	Required	_				_

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 fied 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:

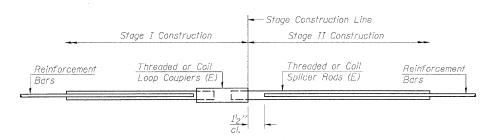
Minimum Capacity
 (Tension in kips) = 1.25 x fy x A<sub>t</sub>

 Minimum \*Pull-out Strength = 0.66 x fy x A<sub>t</sub>

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

 $A_r$  = Tensile stress area of lapped reinforcement bars. \* = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ES	
	Splicer Rod or Dowel Bar Length	Strength Requirements		
			Min. Pull-Out Strength kips - tension	
#4	1′-8′′	14.7	7.9	
#5	2'-0''	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	

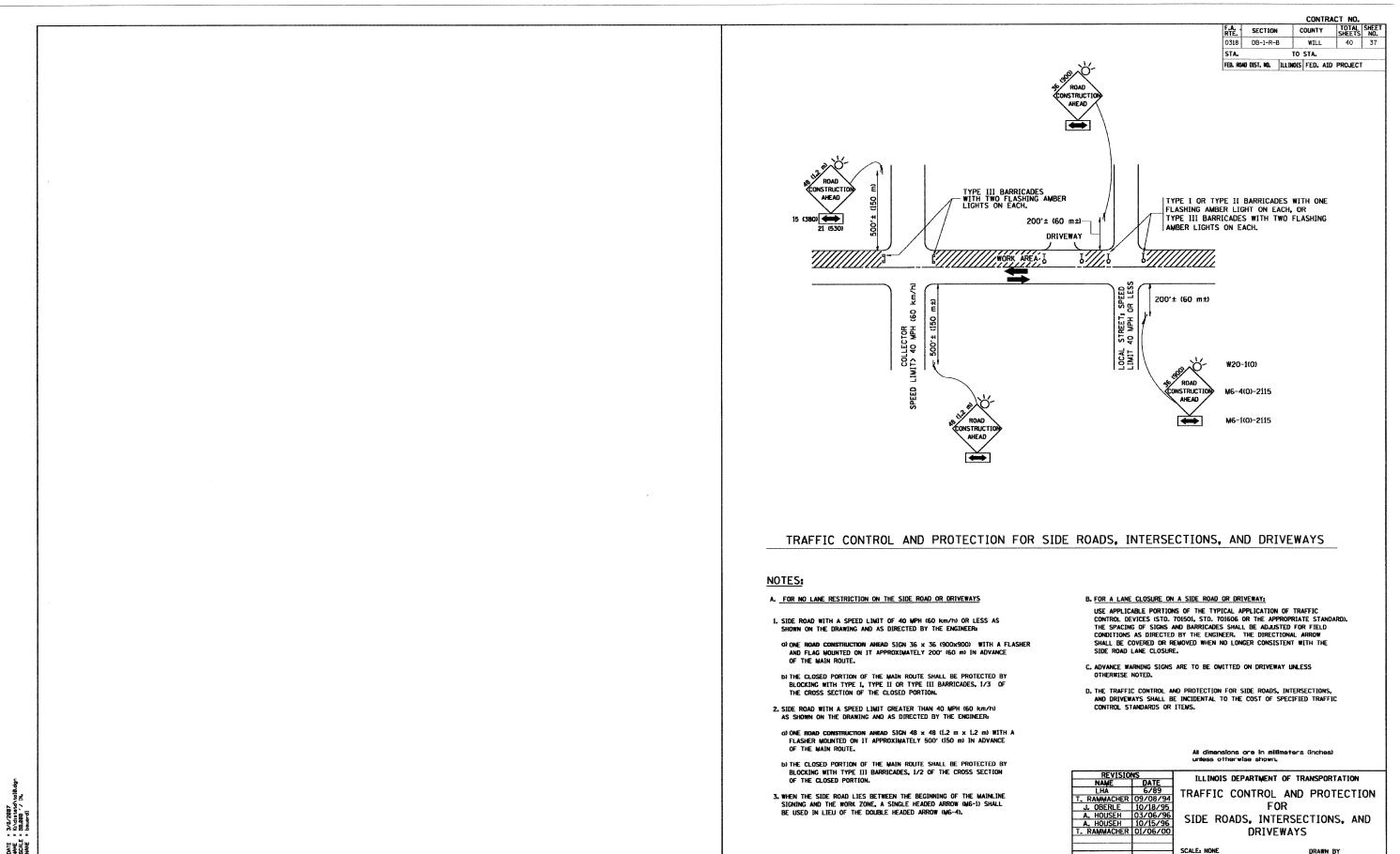


#### STANDARD

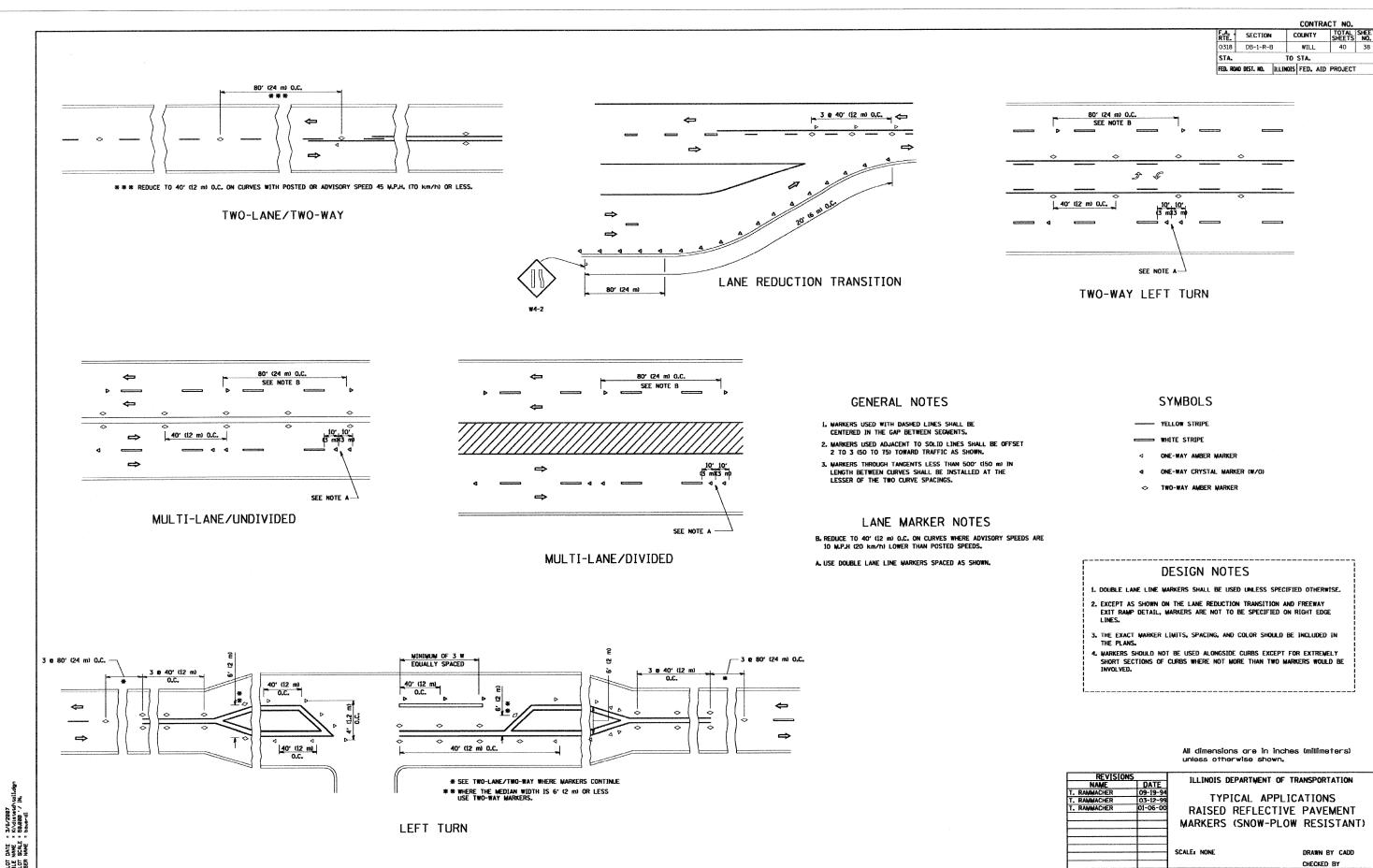
Bar Size	No. Assemblies Required	Location
#4	37	Deck Overlay
#5	6	Abut. Backwall

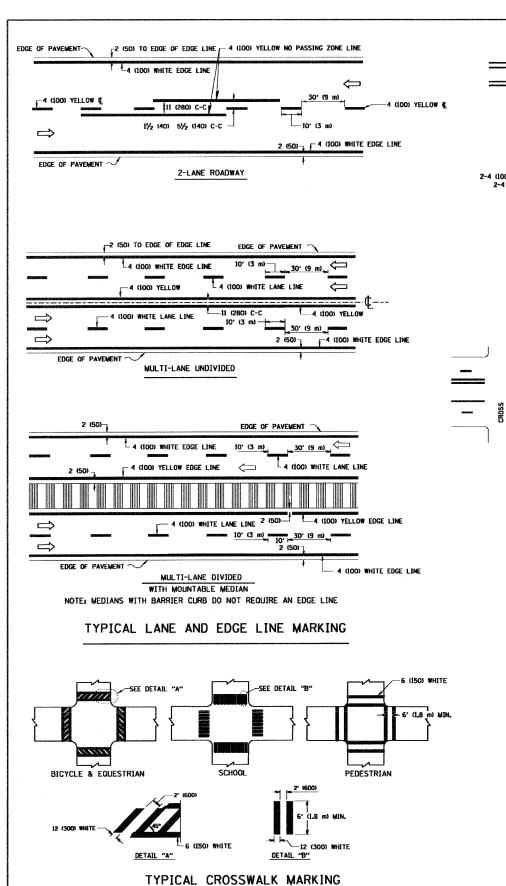
BAR SPLICER DETAILS US 6 (RAILROAD AVE.) OVER I & M CANAL STA. 112+00 S.N. 099-0098

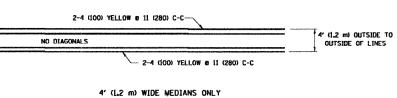
SHEET NO. S-14	F.A.U RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
	0318	DB-1	- <i>R-B</i>	WILL	40	36	
S-14	SHEETS				CONTRACT	NO. 6	SOD88
		FED. ROAD	DIST. NO.	ILLINOIS FED.	AID PROJECT		



CHECKED BY TC-10







# VARIES 2-4 (100) s 11 (280) C-C 2-4 (100) s 11 (280) C-C FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING

CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED

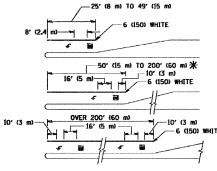
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

# MEDIANS OVER 4' (1.2 m) WIDE 4 (100) YELLOW LINES (51/2 (140) C-C) 4 (100) YELLOW LINES (51/2 (140) C-C) -2-4 (100) YELLOW @ 11 (280) C-C 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.

8' (2.4 m)

MEDIAN WITH TWO-WAY LEFT TURN LANE

#### TYPICAL PAINTED MEDIAN MARKING

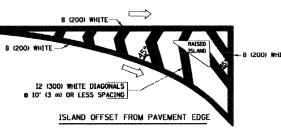


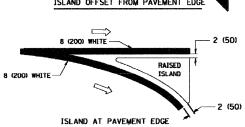
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  $\P$  AREA = 15.6 SO. FT. (1.5 m²)  $\P$  AREA = 20.8 SO. FT. (1.9 m²)

\* 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 s 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 6 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) 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 MEXT 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 e 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (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 & 6 (150) 12 (300) & 45° 12 (300) & 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (L8 m) APART 2' (60D) APART 2' (50D) 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 8 4 (100) WITH 12 (300) DIAGONALS 8 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.
CORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS 6 45°	SOLID	WHITE	DIAGONALS: 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 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) <b>a</b> 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 (OVER 45MPH (70 km/h))

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

REVISIO		
NAME	DATE	
EVERS	03-19-90	
T. RAMMACHER	10-27-94	
ALEX HOUSEH	10-09-96	
ALEX HOUSEH	10-17-96	
T. RAMMACHER	01-06-00	
		SCAL

ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE

TYPICAL PAVEMENT MARKINGS

CHECKED BY

DRAWN BY CADD

CONTRACT NO. COUNTY TOTAL SHEETS NO.

40 39

WILL

TO STA.

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

RTE. SECTION

0318 DB-1-R-B

DATE VAME SCALE NAME

