# STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS**

# **PROPOSED HIGHWAY PLANS**

FAP ROUTE 852/US ROUTE 52 **OVER FORKED CREEK SECTION 18B** BRIDGE BEAM REPLACEMENT, NEW DECK

> **WILL COUNTY** C-91-121-08

**IMPROVEMENT LOCATION** SN: 099-0133 R 11 E WEST PAULING ROAD JOLIET ARSENAL WEST JOLIET ROAD 33 WILTON CENTER SYMERTON WEST WILMINGTON ROAD WEST PEOTONE ROAD

WILTON TOWNSHIP

**LOCATION MAP** 1" = 5000'

GROSS AND NET LENGTH OF PROJECT = 483 FT = 0.09 MI

Ciorba Group, Inc.

DESIGN FIRM REGISTRATION NUMBER

184-001016

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

FOR INDEX OF SHEETS SEE SHEET NUMBER 2

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THIS IMPROVEMENT IS LOCATED IN WILTON TOWNSHIP WITHIN UNINCORPORATED WILL COUNTY

### TRAFFIC DATA

2005 ADT - 4700 POSTED SPEED LIMIT - 45 MPH

### US 52 OVER FORKED CREEK

SN: 099-0133 (STA. 65 + 70.00) 3-SPAN PPC DECK BEAM BRIDGE ON PIERS AND CLOSED ABUTMENTS

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS

1-800-892-0123

CONTRACT NO. 60D87

SECTION

18B

D-91-121-08

852

FED. ROAD DIST. NO.

COUNTY TOTAL SHEE

WILL 31 1

ILLINOIS CONTRACT NO. 60D87

DE WITT LOCATION OF SECTION INDICATED THUS: -

> STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

SUBMITTED JULY 7, 20 08

062-057159 LICENSED

ENGINEER

OF

DATE: 07/09/2008 SEAL EXPIRES: 11/30/2009

EWA K.

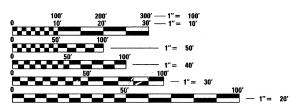
MROCZEK 081-006067

PROFESSIONAL : ★

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER august 15, 20 08

HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION OR 811

### INDEX OF SHEETS

SHEET NO	DESCRIPTION	STATE	STANDARDS
1	TITLE	000001- <i>05</i>	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
2	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES	420401 <b>- 06</b>	BRIDGE APPROACH PAVEMENT
3	SUMMARY OF QUANTITIES	515001- 02	NAME PLATE FOR BRIDGES
4	ALIGNMENT AND CONTROL POINTS		
5	EXISTING CONDITIONS AND REMOVAL PLAN	542301 <i>-01</i>	PRECAST REINFORCED CONCRETE FLARED END SECTION
6	PROPOSED ROADWAY PLAN	542311	GRATING FOR CONCRETE FLARED END SECTION
7	TRAFFIC CONTROL AND PROTECTION - STAGE 1	630001- <i>0</i> 7	STEEL PLATE BEAM GUARDRAIL
8	TRAFFIC CONTROL AND PROTECTION - STAGE 2	030001-07	STEEL PLATE BEAM GOARDRAIL
9	PAVEMENT MARKING PLAN	630301 <b>-04</b>	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL
10	TEMPORARY TRAFFIC SIGNAL PLAN		TERMINALS
11	TEMPORARY CABLE PLAN & TEMPORARY PHASE DESIGNATION DIAGRAM	631032- <i>03</i>	TRAFFIC BARRIER TERMINAL, TYPE 6A
12 13-15	TEMPORARY LIGHTING PLAN TEMPORARY LIGHTING DETAILS	635006 <i>-0</i> <b>2</b>	REFLECTOR AND TERMINAL MARKER PLACEMENT
16	GENERAL PLAN AND ELEVATION	635011 <b>- 0/</b>	REFLECTOR MARKER AND MOUNTING DETAILS
17	STAGE CONSTRUCTION DETAILS		
18	TEMPORARY CONCRETE BARRIER	701201- <i>02</i>	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
19	21"x36" PPC DECK BEAM	701301- <i>0</i> 2	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
20	21"x36" PPC DECK BEAM DETAILS	701321 - <i>09</i>	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
21-22	SUPERSTRUCTURE DETAILS	701001	TRAFFIC CONTROL DEVICES
23	STEEL RAILING DETAILS	701901	TRAFFIC CONTROL DEVICES
24	NORTH & SOUTH ABUTMENTS REPAIRS	704001 - <i>04</i>	TEMPORARY CONCRETE BARRIER
25	NORTH AND SOUTH ABUTMENTS	805001	ELECTRICAL SERVICE INSTALLATION DETAILS
26	PIER 1	057004	CT INDIAND DUIGE DEGIONATION DIAGRAMS AND
27	PIER 2	857001	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
28	BAR SPLICER DETAILS		
29	TYPICAL APPLICATIONS RAISED REFLECTIVE	880001	SPAN WIRE MOUNTED SIGNALS AND FLASHING LIGHT BEACON INSTALLATION
	PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11)		
30	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)		
31	ARTERIAL ROAD INFORMATION SIGN (TC-22)		

### 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 NOTIFICATION 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. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE PAVEMENT MARKING LIMITS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 5. 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.
- 6. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TRAFFIC CONTROL DEVICES.
- 7. TWO WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS, CONTACT MS. CORA MATHIS, AREA TRAFFIC FIELD ENGINEER AT (815) 485-6475
- 8. CHANGEABLE MESSAGE SIGNS SHALL BE PLACED IN ADVANCE OF THE PROJECT LIMIT AT LEAST ONE WEEK PRIOR TO LANE CLOSURE AND TEMPORARY TRAFFIC SIGNAL OPERATIONS.

### **COMMITMENTS**

NONE

### HOT-MIX ASPHALT MIXTURE REQUIREMENTS

OPERATIONS	MIXTURE TYPE	AC TYPE	PERCENT AIR VOIDS
BRIDGE APPROACH	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5 mm), 2"	PG 64-22	4% @ 70 GYR
PAVEMENT CONNECTOR (FLEXIBLE)	HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70, 10" TO 13"	PG 64-22*	4% @ 70 GYR

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

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

SCALE:

90	Ciorba Group, Inc.	ŀ
	CONSULTING ENGINEERS	Ļ
	5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656	-
	T-1 779 776 4000 F-1 779 776 4044	

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

			52 /US RO			F.A.P. RTE.	SECTION
			FORKED			852	18B
INDEX	OF SHEETS	, STA	<u>TE STAND</u>	ARDS &	GENERAL NOTES	_	
	SHEET NO.	OF	SHEETS	STA.	TO STA.	FFD. RC	AD DIST. NO. TILINOIS FED.

COUNTY TOTAL SHEE SHEETS NO.

WILL 31 2

CONTRACT NO. 60D87

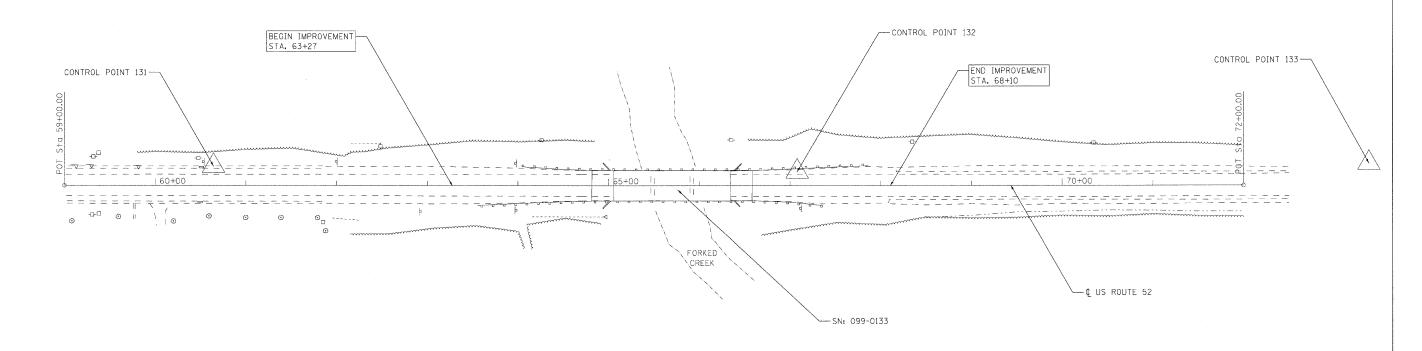
	SUMMARY OF QUANTITIES		URBAN TOTAL	CONSTRUCTIO	N TYPE CODE
CODE NO.	DESCRIPTION	UNIT	QUANTITY 1001. STATE	ROADWAY IOOO	BRIDGE X081- <i>2A</i>
20200100	EARTH EXCAVATION	CU YD	108	108	<u> </u>
28100103	STONE RIPRAP, CLASS A2	SQ YD	21	21	
31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	245	245	
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	220	220	
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	44	44	
44000100	PAVEMENT REMOVAL	SQ YD	105	105	
44000700	APPROACH SLAB REMOVAL	SQ YD	180		180
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	275	275	
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1		1 -
50102400	CONCRETE REMOVAL	CU YD	0.5		0.5
50104400	CONCRETE HEADWALL REMOVAL	EACH	1	1	
50300225	CONCRETE STRUCTURES	CU YD	6.8		6.8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	3.1		3.1
50300260	BRIDGE DECK GROOVING	SQ YD	442		442
50300300	PROTECTIVE COAT	SQ YD	470		470
50301200	CONCRETE WEARING SURFACE	SQ YD	470		470
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	4,226		4,226
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	7,090		7,090
50800515	BAR SPLICERS	EACH	139		139
50901050	STEEL BRIDGE RAIL, TYPE SM	FOOT	265		265
51500100	NAME PLATES	EACH	1		1
52000110	PREFORMED JOINT STRIP SEAL	FOOT	66		66
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	1	1	
54247170	GRATING FOR CONCERETE FLARED END SECTION 36"	EACH	1	1	
63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	100	100	-
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4	
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	504	504	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	2	4
67100100	MOBILIZATION	L SUM	1	0.2	0.8
70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.2	0.8
70106700	TEMPORARY RUMBLE STRIP	EACH	6	6	

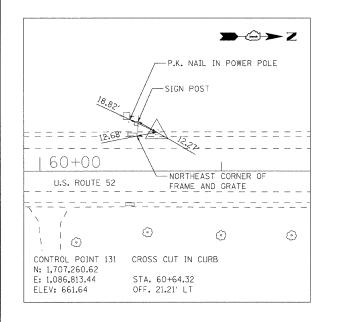
		SUMMARY OF QUANTITIES		<i>URBAN</i> TOTAL	CONSTRUCTIO	N TYPE CODE
	CODE NO.	DESCRIPTION	UNIT	QUANTITY /00%STATE	ROADWAY IOOO	BRIDGE X081 - 24
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	12	12	
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	810	810	
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	450	450	
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	450	450	
ŧ	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1,650	1,650	
*	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	650	650	
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	24	24	
*	78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	10	10	V
*	78200450	MONODIRECTIONAL GUARD RAIL REFLECTORS	EACH	8	8	
ŧ	78200530	BARRIER WALL MARKERS, TYPE C	EACH	44	44	
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	780	780	
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	20	20	
*	80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1	
*	80400200	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1	1	
	82103400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 400 WATT	EACH	6	6	
*	83057355	LIGHT POLE, WOOD, 60 FOOT, CLASS 4, WITH 15FT MAST ARM	EACH	6	6	
*	84100110	REMOVAL OF TEMPORARY LIGHTING UNITS	EACH	6	6	
*	84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1	1	
	X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	52	52	
*	X0323574	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6	6	
	X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	474		474
	X0325775	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4 INCH	FOOT	2,150	2,150	
	X0325841	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 24 INCH	FOOT	48	48	
*	X8900005	TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION	EACH	1	1	
*	XX006937	GROUND ROD, 5/8" DIA. X 10 FT.	EACH	3	3	
	Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	24		24
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.2	0.8
	Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
	Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
*	X0326135	ELECTRIC SERVICE DISCONNECT, LIGHTING AND TRAFFIC SIGNAL	EACH	1	1	
*	X0326170	AERIAL CABLE, 3-1/C NO. 4, ALUMINUM, WITH MESSENGER WIRE	FOOT	1,250	1,250	
*	X0326133	TEMPORARY WOOD POLE, 45 FEET CLASS 5	EACH	1	1	

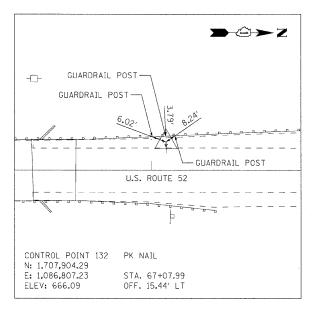
<sup>\*</sup> SPECIALTY ITEM

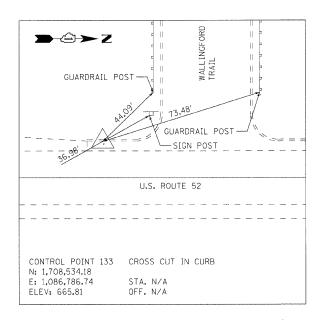
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		FORKED			852	1	.8B	WILL	31	3
 SU	MMA	RY OF QU	IANTITIES					CONTRACT	NO. 60	DB7
SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO.	ILLINOIS FED. A	ID PROJECT		









PROJECT COORDINATES

	US ROUTE	52 CENTERLI	VE.		
DESC	RIPTION	NORTHING	EASTING		
P.O.T.	59+00.00	1,707,096.72	1,086,837.70		
P.O.T.	72+00.00	1,708,396.50	1,086,813.52		

Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 80856
Tel. 773.775.4009
Fex.773.775.4014

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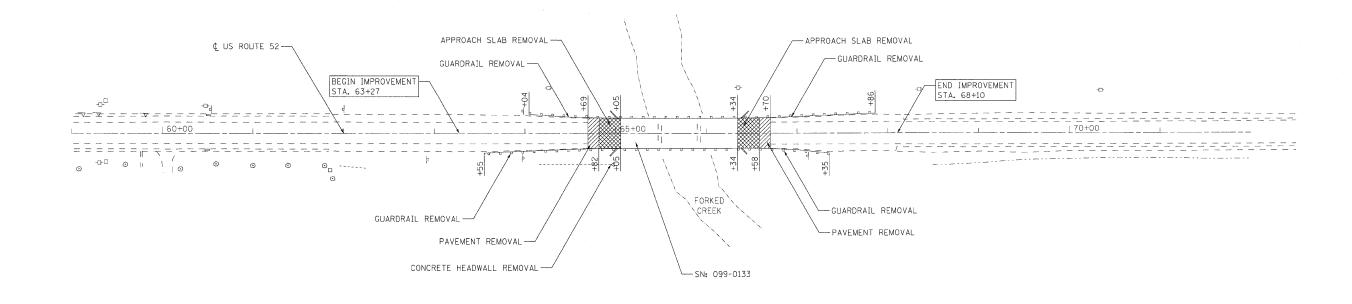
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 852/US ROUTE 52	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OVER FORKED CREEK	852	18B	WILL	31	4
ALIGNMENT AND CONTROL POINTS			CONTRACT	NO. 60	D87
SCALE: 1"=50" SHEET NO. OF SHEETS STA. TO STA.	FED. RO	AD DIST. NO. ILLINOIS FED. A	ID PROJECT		

COUNTY TOTAL SHEETS NO.

WILL 31 5

CONTRACT NO. 60D87



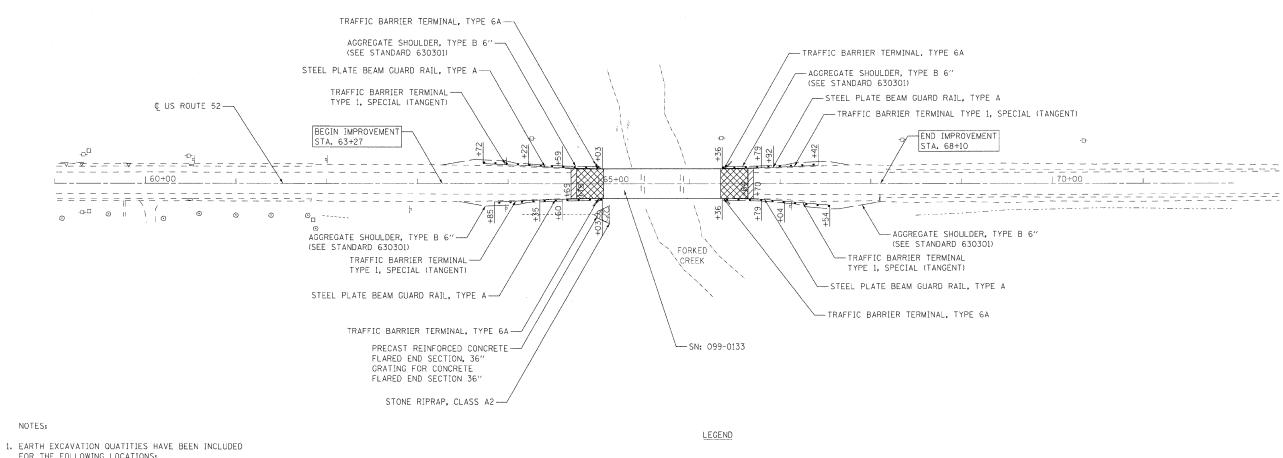
NOTE: THE EXISTING PAVEMENT CONSISTS OF 8 INCHES OF HOT-MIX ASPHALT OVER 9 INCHES OF PCC BASE COURSE.

č		Ciorba Group, Inc.	
FILE NAME	CG:	CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014	

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STATI	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

			2 /US RC			F.A.I RTE		SEC	CTION	
	EXISTING		FORKED TIONS AN		VAL PLAN	852			18B	
ALE: 1"=50"	SHEET NO.	0F	SHEETS	STA.	TO STA.	FED.	ROAD DIS	T. NO.	ILLINOIS	FED



NOTES:

FOR THE FOLLOWING LOCATIONS:

FOR BRIDGE APPROACH PAVEMENT AND BRIDGE APPROACH CONNECTOR (FLEXIBLE)

70 CU YD

FOR AGGREGATE SHOULDERS, TYPE B

38 CU YD

2. SEE SHEET NO. 16 FOR PROFILE GRADE.

SUB-BASE GRANULAR MATERIAL, TYPE A 4" BRIDGE APPROACH PAVEMENT (SEE STANDARD 420401)



BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5), 2" HOT-MIX ASPHALT BINDER COURSE, IL 19.0 mm, N70, 10" TO 13" (IN 4 LIFTS)

1		Ciorba Group, Inc
177	بت	5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014

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STATI	E OI	FILLINOIS
DEPARTMENT	OF	TRANSPORTATION

			52 /US R			F.A.P. RTE.	SE	CTION	COUNTY	TOTAL	SHEET NO.
		OVER	FORKED	852	18B		WILL	31	6		
	PR	OPOSE	D ROADV	VAY PLAN					CONTRACT	NO. 6	30D87
CALE: 1"=50"	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROA	AD DIST. NO.	ILLINOIS FED. A	ID PROJECT		

### CONSTRUCTION SEQUENCE

CONSTRUCTION

TRAFFIC CONTROL

STAGE 1

NORTHBOUND DECK BEAM REPLACEMENT, BRIDGE APPROACH AND GUARDRAIL ONE-WAY TRAFFIC ON SOUTHBOUND LANE FROM STA. 62+14 TO STA. 68+92 UTILIZE STANDARD 701321

STAGE 2

SOUTHBOUND DECK BEAM REPLACEMENT, BRIDGE APPROACH AND GUARDRAIL ONE-WAY TRAFFIC ON NORTHBOUND LANE FROM STA. 62+64 TO STA. 69+25 UTILIZE STANDARD 701321 Work area

□ Sign

□ Type III barrice

◆ Traffic signal

Stop Bar 24-inch

Type III barricade
 Traffic signal
 Detector loops

Impact attenuator

Drum with steady burning light (25' cts.)

Temporary concrete barrier

Temporary rumble strip (when specified)

Double vertical panel (see detail)

Crystal, bidirectional
barrier wall/guardrall marker (25' cts.)

igoremskip igotimes Non-directional flashing beacon

- ① Type III barricade to be placed when no work is being performed.
- ② Barrier wall/guardrail markers at 25' cts. See Standards 704001 & 635011.

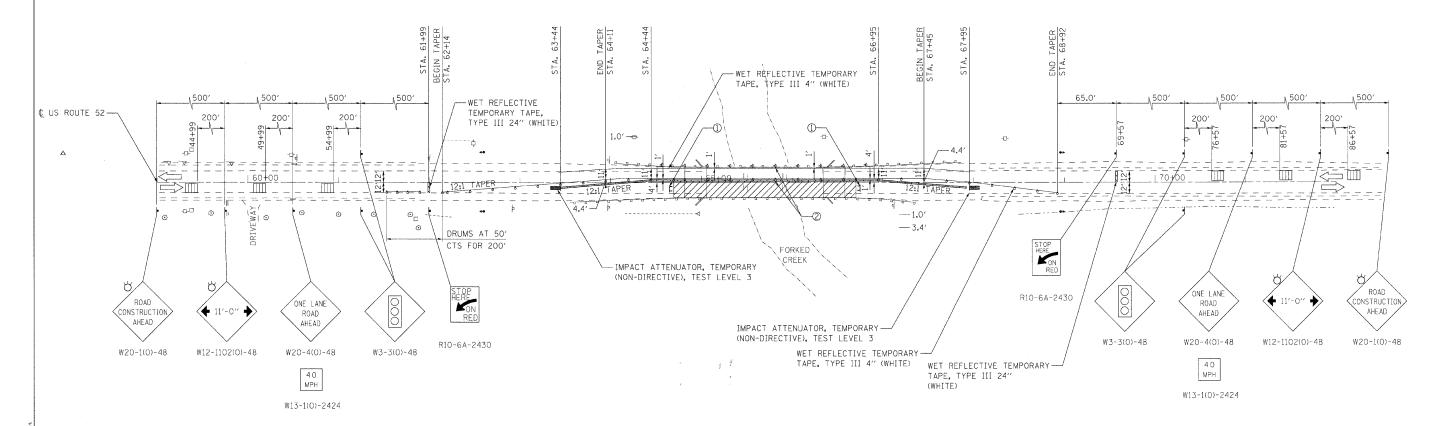


### GENERAL NOTES

Traffic signals shall be operational only when all traffic controls are in place. When traffic signals are not in operation, flaggers shall be used and traffic control shall conform to Standard 701201.

Temporary concrete barrier shall be according to Standard 704001.

When exitsting pavement markings and raised pavement markers are in conflict with the traffic control and protection plan, existing pavement marking and raised pavement markers shall be removed and paid for as pavement marking removal or as raised reflective pavement marking removal.





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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	F	AP 85	2 /US RC	UTE 52	
	TRAFFIC CON		FORKED		I _ STAGE 1
SCALE: 1"=50"	SHEET NO.		SHEETS		TO STA.

A.P. TE.		SEC	TION		COUNTY	TOTAL	SHEET NO.
352		1-	8B		WILL	31	7
					CONTRACT	NO. 6	OD87
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### CONSTRUCTION SEQUENCE

CONSTRUCTION

TRAFFIC CONTROL

STAGE 1

NORTHBOUND DECK BEAM REPLACEMENT. BRIDGE APPROACH AND GUARDRAIL

ONE-WAY TRAFFIC ON SOUTHBOUND LANE FROM STA. 62+14 TO STA. 68+92 UTILIZE STANDARD 701321

STAGE 2

SOUTHBOUND DECK BEAM REPLACEMENT, BRIDGE APPROACH AND GUARDRAIL

ONE-WAY TRAFFIC ON NORTHBOUND LANE FROM STA. 62+64 TO STA. 69+25 UTILIZE STANDARD 701321

Work area ⊸ Sign

Type III barricade

← Traffic signal

♦ Detector loops Impact attenuator Stop Bar 24-inch

lacktriangle Drum with steady burning light (25' cts.) Temporary concrete barrier

Temporary rumble strip (when specified) Double vertical panel (see detail)

- Crystal, bidirectional barrier wall/guardrail marker (25' cts.)
- Non-directional flashing beacon

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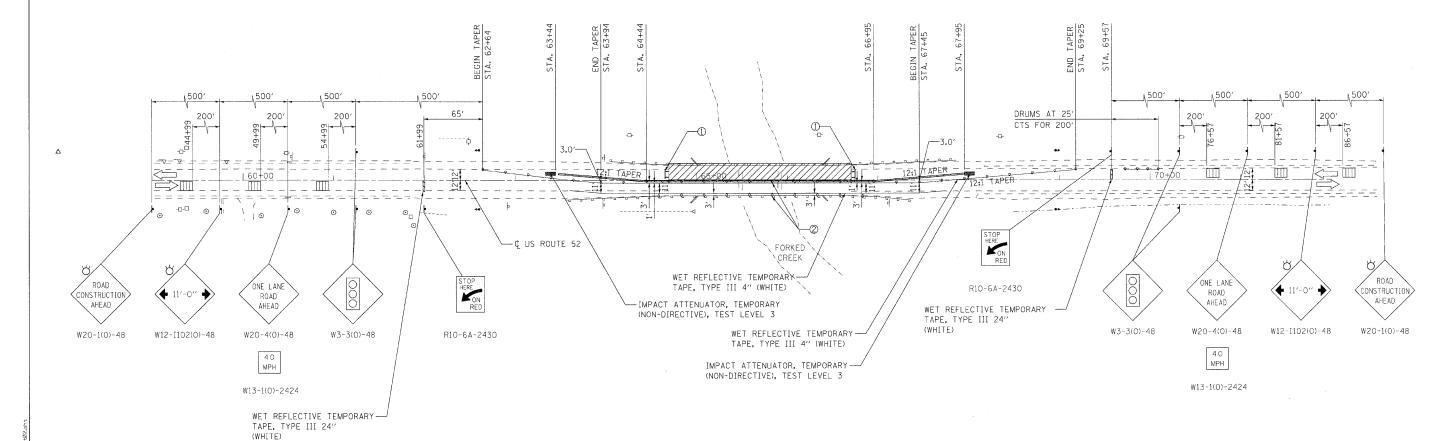


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4	PLOT DATE = 7/8/2008	DATE	-	07/09/2008	REVISED	м

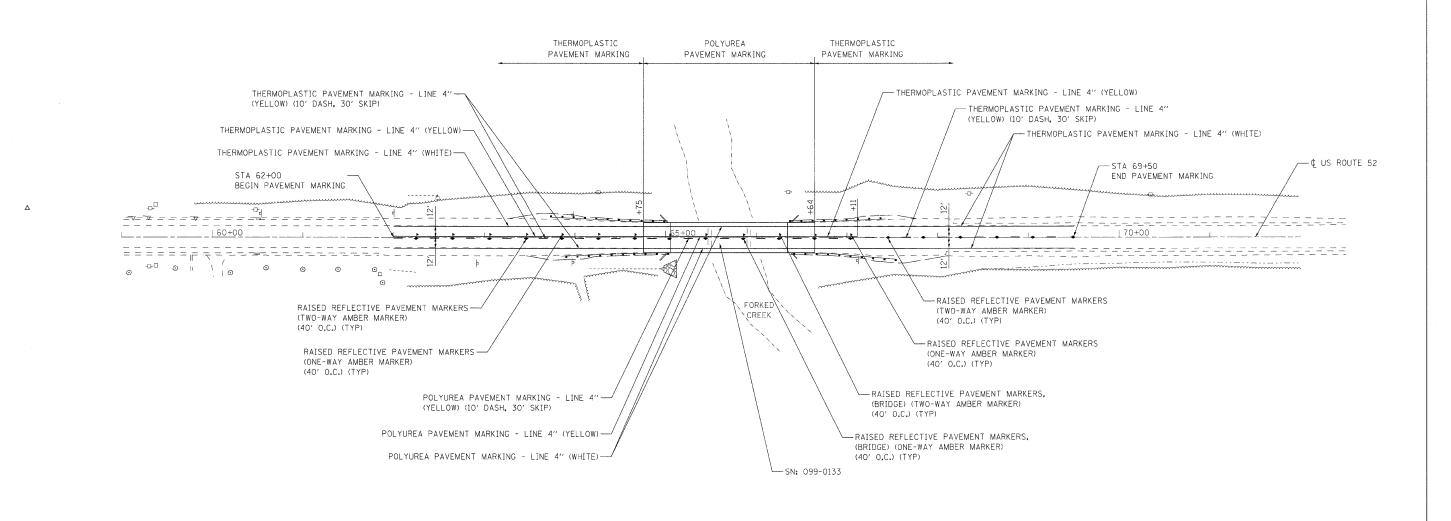
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

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	. <b>F</b>	AP 8	52 /US RC	UTE 52	
-			FORKED AND PRO		I – STAGE 2
SCALE: 1"=50"	SHEET NO.			T	TO STA.

F.A.P. RTÉ.		SECTION			COUNTY	TOTAL	SHEET S NO.
852		18B			WILL	31	8
				(	CONTRACT	NO.	60D87
EED. RO	AD DIST. P	NO. THE INOIS	FFD.	AID	PROJECT		



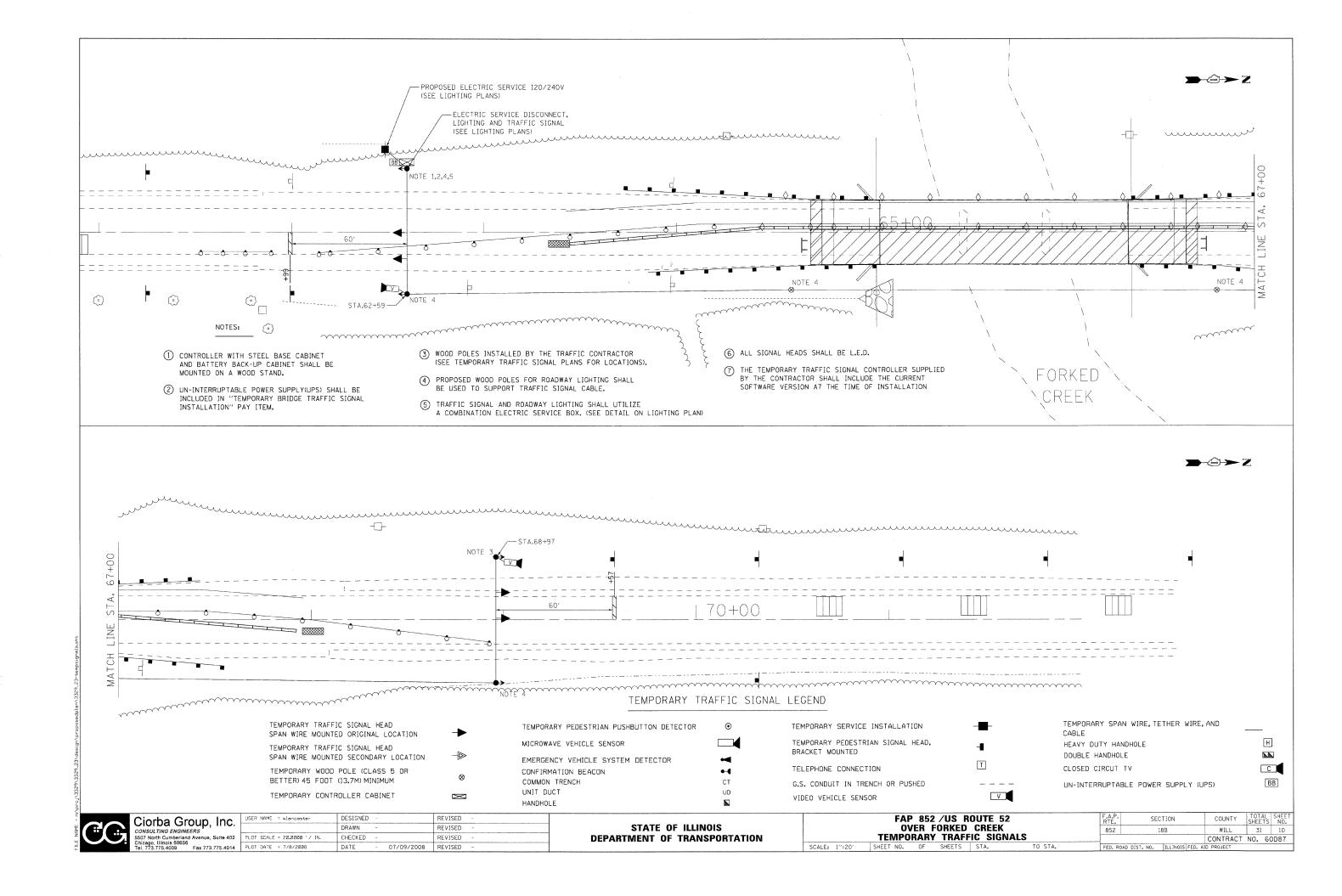


ME =		Ciorba Group, Inc.	Ī
Š	التقالية التقال		t
щ		5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656	ŀ
ü.		Tel. 773.775.4009 Fax 773.775.4014	l

•	USER NAME - Wiancaster	DESIGNED	-	DIMIM	KENIZED	-
٠.		DRAWN	-	DMM	REVISED	
02	PLOT SCALE = 50.0000 '/ IN.	CHECKED	-	MJL	REVISED	-
14	PLOT DATE = 7/8/2008	DATE	-	07/09/2008	REVISED	
_						

STAT	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

			52 /US RO	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.		
			FORKED	852	18B	WILL	31	9		
	P	<b>AVEMI</b>	ENT MARI	KING PLAN				CONTRACT	NO. 6	OD87
SCALE: 1"=50"	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. ILLINOIS FED.	AID PROJECT		

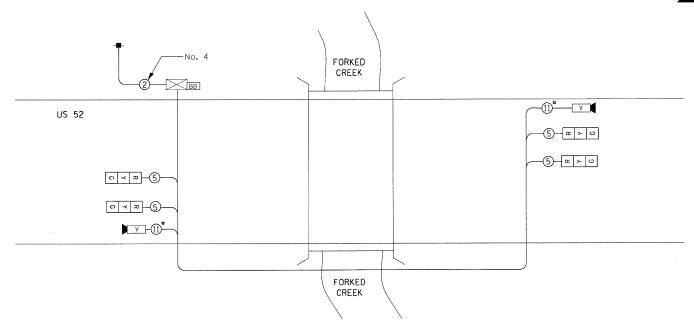


### **D**Ô>Z

### NOTES FOR TEMPORARY TRAFFIC SIGNALS

- 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 R232 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 SIGNAL TURN ON.
- 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 TEMPORARY 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.

TOTAL = 264



\* NOTE: OR AS SPECIFIED BY CAMERA VENDOR

## CONTROLLER SEQUENCE

**→** 

	SUMMARY OF QUANTITIES		
ITÉM	DESCRIPTION	UNIT	QUANTITY
X8900005	TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION	EACH	1

US 52 - I

PHASE DESIGNATION

EQUIPMENT 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.

- 1										
43	I.D.O.T									
emp.sht	TRAF	FIC SIGNAL	INSTALL	ATION						
E	ELECTRI	TOTAL								
23-TS-T	TYPE	NO. LAMPS:	INCAND.	TAGE ;	%OPERATION	WATTAGE				
2	SIGNAL (RED)	4	135	17	0.50	34				
3329	(YELLOW)	4	135	25	0.25	25				
/	(GREEN)	4	135	15	0.25	15				
g	ARROW		135	12	0.10					
\proposedp	PED. SIGNAL		90	25	1.00					
980	CONTROLLER	1	100	100	1.00	100				
å	ILLUM. SIGN		84		0.05					
ģ	VIDEO CAMERA	2		45	1.0	90				
lesign										
98										

LEGEND

SINGLE ENTRY PHASE

→ OL OVERLAP

◆ PEDESTRIAN PHASE

NUMBER REFERS TO ASSOCIATED PHASE



48 - HOURS BEFORE DIGGING

### TEMPORARY CABLE DIAGRAM LEGEND

- R TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300mm)
- □ TEMPORARY CONTROLLER CABINET
- --- TEMPORARY SERVICE INSTALLATION
- (5) 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.

CONSULTING ENGINEERS

507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009

Fax 773.775.4014

CUSER NAME = \*\* Alancaster\*

PLOT SCALE = 52.28000 ' / PLOT DATE = 778/2008

ENERGY SUPPLY CONTACT: KATHY NYSTROM PHONE: (847) 816-5489

201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

ILLINOIS DEPARTMENT OF TRANSPORTATION

COMPANY: COM, ED.

ENERGY COSTS TO:

 USER NAME
 = klanoaster
 DESIGNED
 RBG
 REVISED

 DRAWN
 JAG
 REVISED

 PLOT SCALE
 = 58.28000 '/ IN.
 CHECKED
 MJL
 REVISED

 PLOT DATE
 = 778/2008
 DATE
 07/09/2008
 REVISED

FOUNDATION (DEPTH) FT. (m) CABLE SLACK

24" (600mm) 10 (3.0) C 30" (750mm) 15 (4.6) F

TYPE A - POST 4 (1.2) HANDHOLE

D - CONTROLLER 4 (1.2) DOUBLE HANDHOLE

STENAL POST

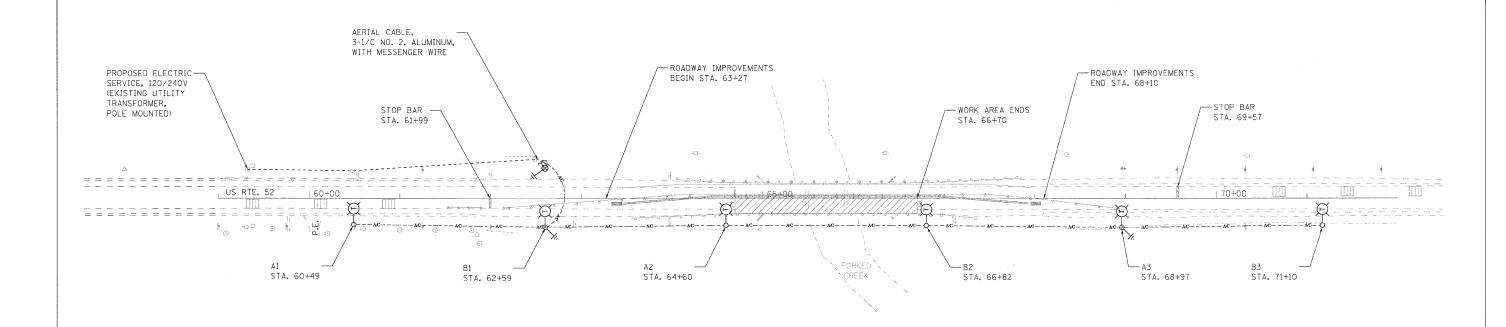
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 852 /US ROUTE 52 OVER FORKED CREEK TEMPORARY CABLE PLAN & TEMPORARY PHASE DESIGNATION DIAGRAM

 F.A.P.
 SECTION
 COUNTY
 TOTAL SHEE SHOES
 SHOE SHEETS
 NO.

 852
 18B
 WILL
 31
 11

 CONTRACT
 NO.
 60D87



LEGEND:

**○**T

TEMPORARY LIGHTING UNIT

50 FT. MOUNTING HEIGHT, 15 FT. MAST ARM 400 WATT, 120 VOLT LUMINAIRE WITH PHOTOCELL

AERIAL CABLE, 3-1/C NO. 4, ALUMINUM, WITH MESSENGER WIRE

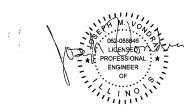
GROUND ROD, 5/8" DIAMETER X 10 FT.

ELECTRIC SERVICE DISCONNECT, LIGHTING

 $\square$ AND TRAFFIC SIGNAL

EXISTING UTILITY POLE

TEMPORARY WOOD POLE, 45 FT, CLASS 5



DATE: 7/8/2008

### NOTES

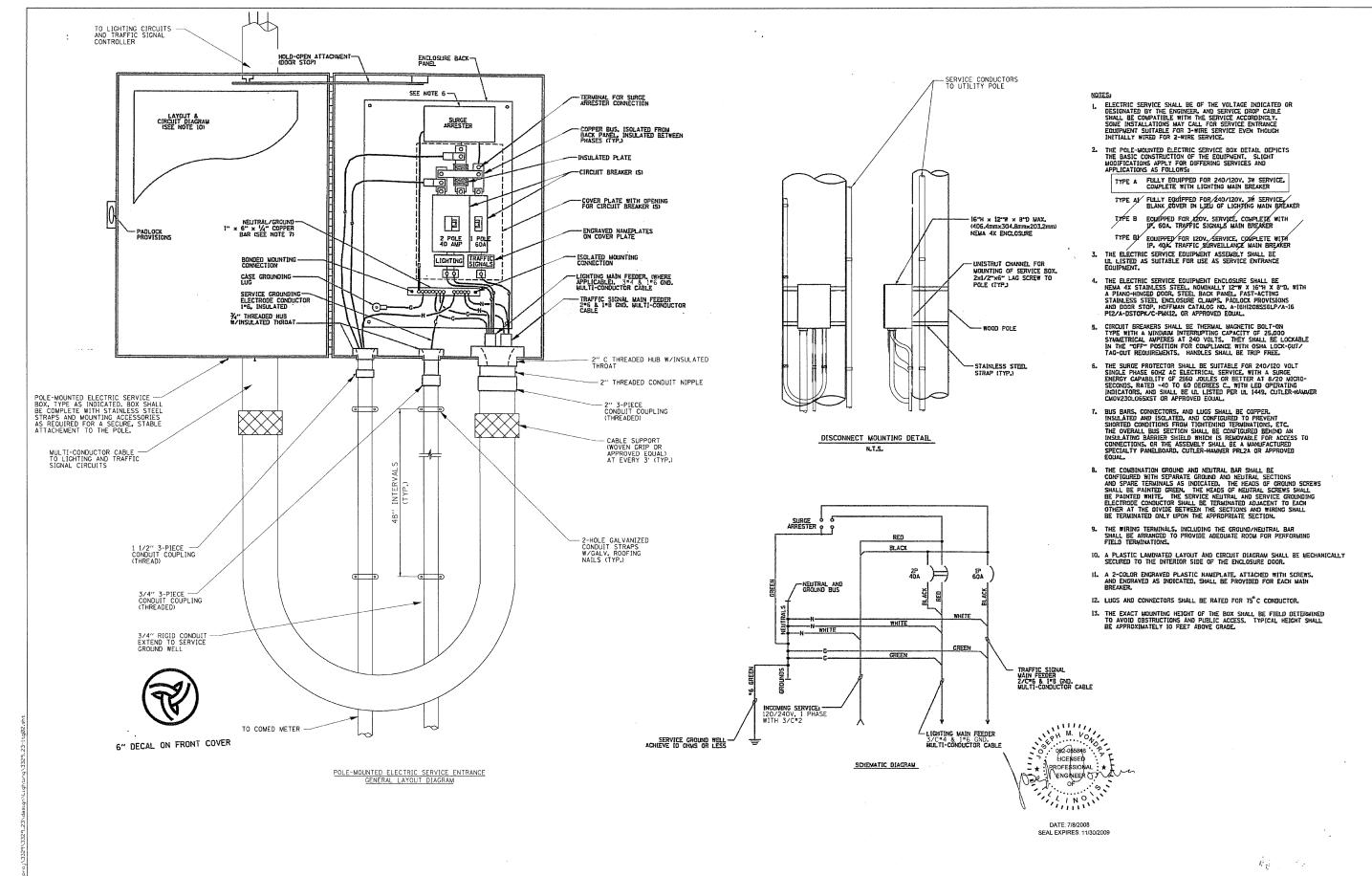
- 1. TEMPORARY LIGHTING SHALL BE INSTALLED AND OPERATIONAL BEFORE THE START OF CONSTRUCTION.
- 2. POLE SHALL BE SET BACK 18 FT. FROM THE EDGE OF THE TRAVELLED PAVEMENT, UNLESS OTHERWISE REQUIRED BY THE FIELD CONDITIONS.
- TEMPORARY LIGHTING SHALL REMAIN OPERATIONAL FOR BOTH STAGE I AND STAGE II. STAGE I SHOWN.
- 4. ALL POLES SHOWN ON THIS PLAN SHALL BE INSTALLED BY THE LIGHTING CONTRACTOR.

1	90	Ciorba Group, Inc.
H.	بت	CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656
4		Tel. 773.775.4009 Fax 773.775.4014

	USER NAME = wlancaster	DESIGNED	-	JMV	REVISED	-
٠.		DRAWN	-	MLB	REVISED	w
02	PLOT SCALE = 50.0000 '/ IN.	CHECKED	-	JMV	REVISED	-
14	PLOT DATE = 7/8/2008	DATE	-	07/09/2008	REVISED	-

STATE	OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

			2 /US RC			F.A.P. RTE.	SEC	TION	COUNTY	TOTAL	SHEET S NO.
			FORKED			852 18B		8B	WILL	31	12
	TEM	PORA	RY LIGHT	ING PLA	\N				CONTRACT	NO.	50D87
CALE: 1"=50"	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO.	ILLINOIS FED. AI	D PROJECT		



Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60655
Tel. 773.775.4009
Fax 773.775.4014

_	USER NAME = wlencester	DESIGNED	-	JMV	REVISED -
<b>U</b> .		DRAWN	-	MB	REVISED -
102	PLOT SCALE = 1.0000 '/ IN.	CHECKED		JMV	REVISED -
014	PLOT DATE = 7/8/2008	DATE	-	07/09/2008	REVISED -

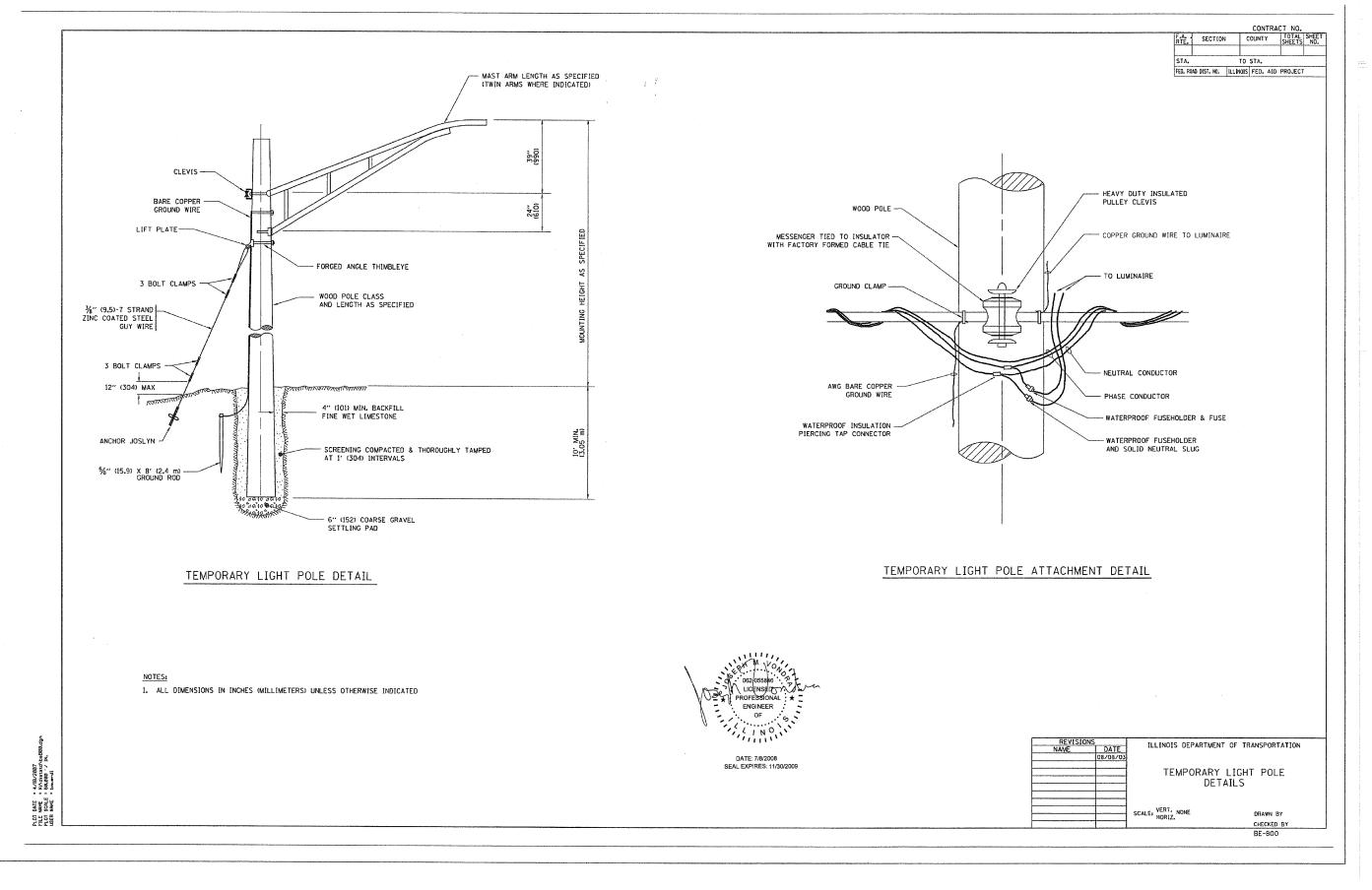
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

1	F/				ER FORKED		F.A.P. RTE.	SEC	TION
	ELECTRIC SERVICE DISCONNECT, LIGHTING AND TRAFFIC SIGNAL						852	18	8B
	SCALE: NONE			4 SHEETS		TO STA.	FED. RO	AD DIST, NO.	ILLIN

COUNTY

WILL

CONTRACT NO. 60D87



Ciorba Group, Inc.

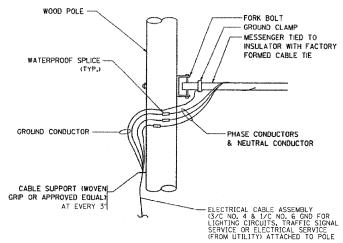
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60556
Tel. 773.775.4009 Fax 773.775.4014

USER NAME = \*\*lancaster\*

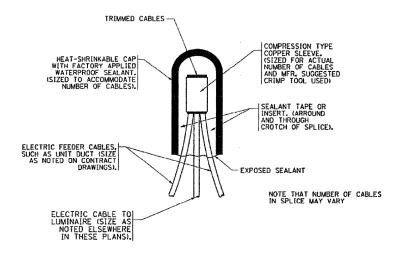
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PLOT DATE = 7/8/2008

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

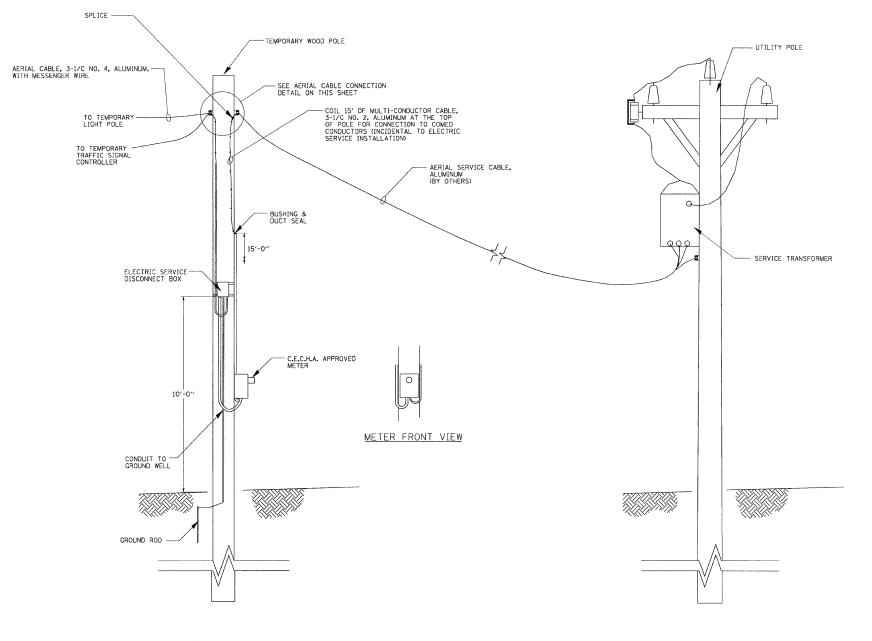
FAP 852 /US ROUTE 52
OVER FORKED CREEK
TEMPORARY LIGHTING DETAILS
SCALE: NONE SHEET NO. 3 OF 4 SHEETS STA.

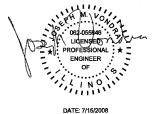


# AERIAL CABLE CONNECTION DETAIL



TYPICAL SPLICE DETAIL
N.T.S.





SEAL EXPIRES: 11/30/2009

NOTE:

COMMONWEALTH EDISON SHALL BE CONTACTED BEFORE THE INSTALLATION WORK BEGINS FOR THE ELECTRIC SERVICE INSTALLATION.

ELECTRIC SERVICE INSTALLATION

(7-17-08)

Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tex 773.775.4008
Fax 773.775.4014

	USER NAME = jvondra	DESIGNED	-	JMV	REVISED ~	
•		DRAWN	-	MB	REVISED -	
!	PLOT SCALE = 1.0000 '/ IN.	CHECKED	-	JMV	REVISED -	
ı	PLOT DATE = 7/15/2008	DATE	-	07/09/2008	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	FAP 852 /US ROUTE 52						F.A.P. RTE.	SEC	TION	COUNTY	TOTAL	SHEET S NO.	
	OVER FORKED CREEK						852	1	8B	WILL	31	15	
		TE	MPOR	AR	Y LIGHTI	NG DETAI	LS				CONTRACT	NO.	50D87
SC.	ALE: NONE	SHEET NO.	4 OF	4	SHEETS	STA.	TO STA.	FED. R	DAD DIST, NO.	ILLINOIS FED. AI	D PROJECT		

B.M.: PK Nail on East shoulder pavement Sta. 63+84.00, offset 16' Rt., Elev. 665.017 Existing Strucrure: SN 099-0133 at Sta. 64+70 built in 1924 as S.B I. 44 Sec. 18. Existing structure is a 3 span 21" X 36" PPC Deck Beam Bridge with the 4" concrete wearing surface. In 1971 abutments and piers were widened to accommodate the new superstructure. The substructure consists of two closed abutments and two solid concrete piers. The structure measures 128'-11'2" Bk. to Bk. Abutments and 33'-0" Out to Out Deck. Traffic is to be maintained utilizing stage construction. One lane for both directions will be provided by using temporary traffic signals. Salvage: None 21" x 36" PPC Deck Beams

Flared end section

DESIGNED B. Sauter

CHECKED E. Mroczek

CHECKED B. Sauter

DRAWN

R. Danle

w/grate. See roadway drawings for details.

### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

### SCOPE OF WORK

STATION 65+70 REBUILT 200 BY LOADING HL 93

STATE OF ILLINOIS FAP RT. 852 SEC. 18B S.N. 099-0133

See Std. 515001

Exist. Ground

H.W. El. 662.0

0.25%

+0.56%

Sta. 65+24.24 Elev. 666.43

. 666.16

Group, Inc.

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

CONSULTING ENGINEERS

100' V.C.

K = 123

PROFILE GRADE

(from 1971 plans)

1. Total Superstructure Removal and Replacement

2. Substructure Repairs

3. Approach Slab Removal and Replacemnet

NAME PLATE

### INDEX OF SHEETS

- General Plan & Elevation
- Stage Construction Details
- Temporary Concrete Barrier S-.3.
- 5-4.
- 21"x36" Deck Beam 21"x36" Deck Beam Details S-5.
- S-6. Superstructure Details 1
- S-7. Superstructure Details 2
- S-8. Steel Railing Details
- S-9. North and South Abutment Repairs S-10. North and South Abutments
- S-11. Pier 1
- S-12. Pier 2
- S-13. Bar Splicer Details

# GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to routine 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 based upon the unit price bid for the work.

Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 (IL Modified). See Special Provisions.

The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

Attach new Name Plate to the inside face of Railing as shown. Existing name plate is to be removed, cleaned and relocated adjacent to new name plate. Cost included in the cost of Name Plates.

Reinforcement Bars designated (E) shall be epoxy coated.

After the removal of the existing beams for stage I removal, the Contractor shall reconnect or re-engage the transverse ties in the existing beams for stage I traffic.

Burn or cut the existing dowel rods flush with existing bearing seat. Grind the existing dowel rods smooth and seal with epoxy. The cost of this work shall be included with "Removal of Existing Superstructure.

No in-stream work will be allowed on this project.

SE OF ILLINO OF ILLINO,

EWA K.

MROCZEK

081-006067

STRUCTURM

DATE: 7/18/2008 SEAL EXPIRES: 11/30/2008

LOCATION SKETCH

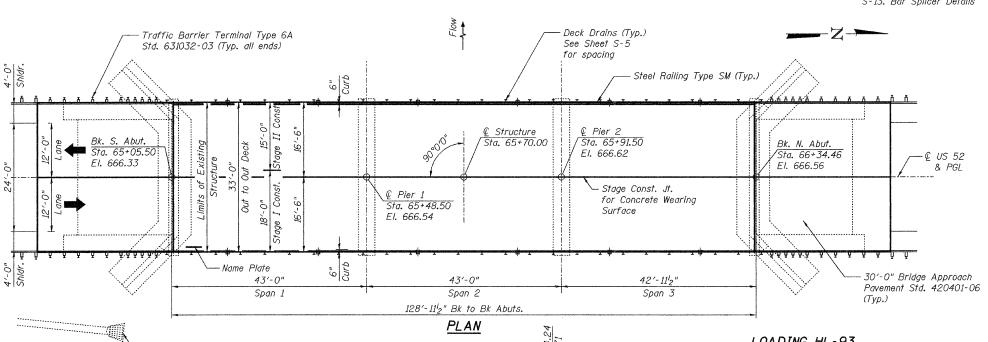
3rd PM

– Proposed

Structure

The minimum thickness of the concrete overlay shall be 5" and varies as required to adjust for the new profile grade and beam camber.

Repair of the substructure shall be completed prior to placement of the new deck beams.



ELEVATION

LOADING HL-93 No future wearing surface allowed

DESIGN SPECIFICATIONS AASHTO LRFD Bridge Design Specfications (4th Edition, 2007)

DESIGN STRESSES

FIELD UNITS f'c = 3,500 psifv = 60,000 psi

PRESTRESSED UNITS  $f'c = 6.000 \, psi$ f'ci = 5,000 psi

 $f's = 270,000 \text{ psi } (1/2" \phi \text{ low lax. strands})$ 

f'si = 201,400 psi (1/2" \$\phi\$ low lax. strands)

APPROVED FOR STRUCTURAL ADEQUACY ONLY



### TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTIT
Removal of Existing Superstructures	Each	1
Concrete Removal	Cu. Yd.	0.5
Concrete Structures	Cu.Yd.	6.8
Concrete Superstructure	Cu.Yd.	3.1
Bridge Deck Grooving	Sq.Yd.	442
Protective Coat	Sq.Yd.	470
Concrete Wearing Surface	Sq.Yd.	470
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq.Ft.	4,226
Reinforcement Bars, Epoxy Coated	Pound	7,090
Bar Splicers	Each	139
Steel Railing, Type SM	Foot	265
Name Plates	Each	1
Preformed Joint Strip Seal	Foot	66
Structural Repair of Concrete (Depth Equal to or Less than 5 inches)	Sq.Ft.	474
Asbestos Bearing Pad Removal	Each	24

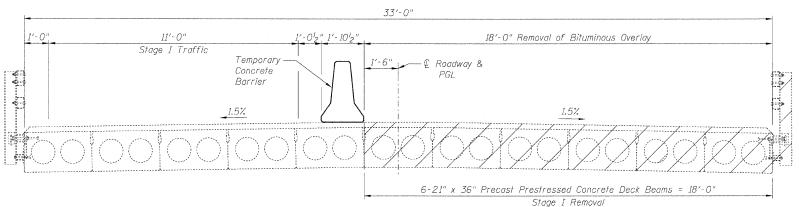
\* Special Provision

GENERAL PLAN AND ELEVATION

US 52 OVER FORKED CREEK STA. 65+70 S.N. 099-0133

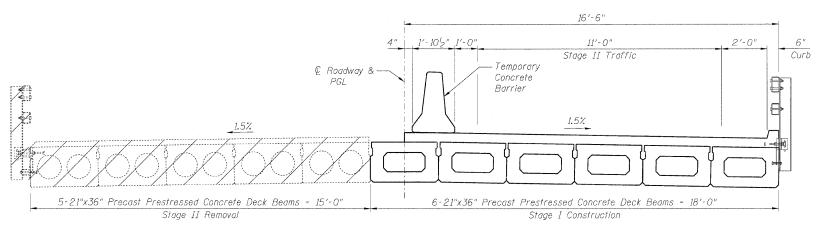
SHEE	SHEET NO. S-1	F.A.P RTE.				TOTAL SHEETS	SHEET NO.
1	011221 1102 0 1	852	18	BB	WILL	31	16
	S-13 SHEETS				CONTRACT	NO. 6	OD87
		FED. ROAD	DIST. NO.	ILLINOIS FED. A	ID PROJECT		

### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



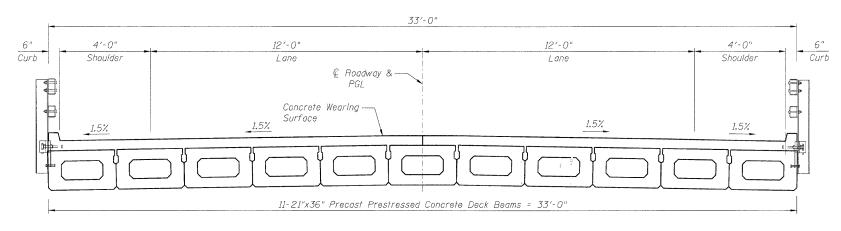
STAGE I REMOVAL

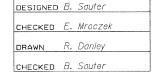
(Looking North)



### STAGE I CONSTRUCTION & STAGE II REMOVAL

(Looking North)





CIOIDA GIOUD 9 INC.

CONSULTING ENGINEERS

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

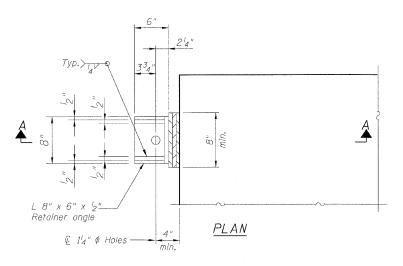
<u>FINAL</u> (Looking North) Steel Wedges

Retainer Angle

\*I"  $\phi$  x 12" Galv.

anchor bolt with  $2^{1}_{2}$ " x  $2^{1}_{6}$ "  $\mathcal{R}$ washer under nut

SECTION A-A



### TEMPORARY RETAINER ANGLE

\* Retainer angle to be placed adjacent to center beam at South and East Abutments right after Stage I center beam is removed. Retainer angle shall be removed right before installation of the new stage I beams. Repeat procedure for stage II. Cost of retainer and accessories are included with Precast Prestressed Concrete Deck Beams.

### LEGEND:



Removal of Existing Superstructure

### NOTES:

- 1. See Sheet S-3 for Temporary Concrete Barrier Details.
- The Contractor is ultimately responsible of means and methods to ensure the complete stability of the structural members during construction.
- 3. Existing Bearing removal to be paid for under "Asbestos Bearing Pad Removal".

STAGE CONSTRUCTION DETAILS

US 52 OVER FORKED CREEK

STA. 65+70

S.N. 099-0133

SHEET NO.S-2	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
011221 110.0 2	852	18B	WILL	31	17
S-13 SHEETS			CONTRACT	NO. 6	0D87
	FED. ROAL	D DIST. NO.   ILLINOIS FED. A	ID PROJECT		

EXISTING DECK BEAM

### NOTES

Detail I - With Bar Splicer or Couplers: Connect one (I) 1"x7"x10" steel  $P_L$  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 ₱ 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.

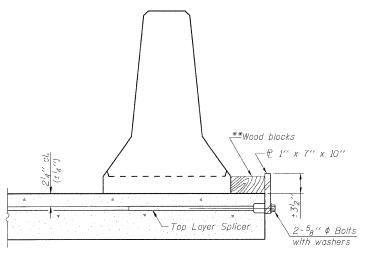
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

### SECTIONS THRU SLAB OR DECK BEAM

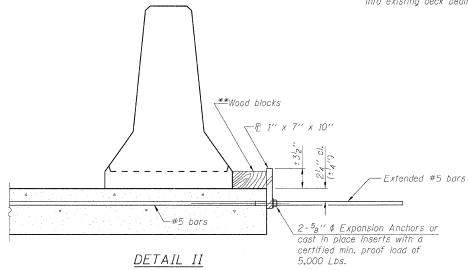
EXISTING SLAB

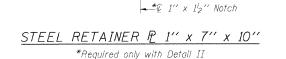
\*\*\*Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

\*\*\*\*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.



DETAIL I





Top bars

spacing

— Detail I

— Detail II

TEMPORARY CONCRETE BARRIER US 52 OVER FORKED CREEK STA. 65+70 S.N. 099-0133

SHEET	NO. S-3	F.A.P RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
		852	18	3B		WILL	31	18
S-13	SHEETS					CONTRACT	NO. 6	OD87
		FED. ROAD	DIST. NO.	ILLINOIS F	ED. AI	D PROJECT		

are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

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

when "A" is greater than 3'-6".

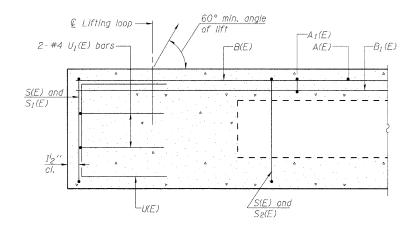
CHECKED B. Sauter R-27 5-16-08



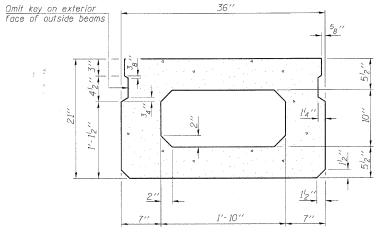
NEW SLAB

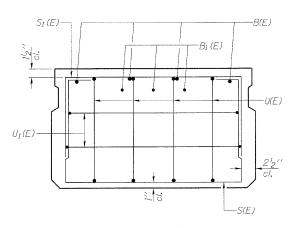
<sup>\*\*</sup>Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks

### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



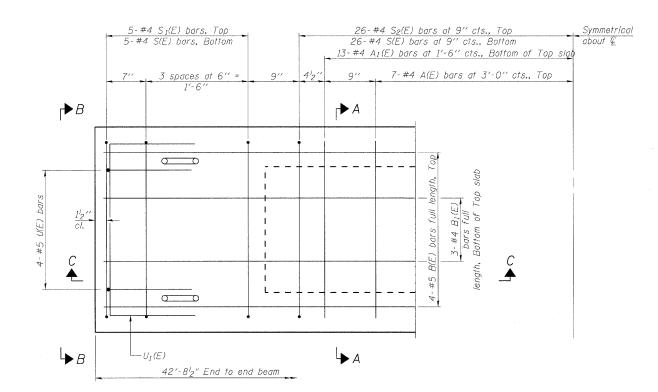
SECTION C-C

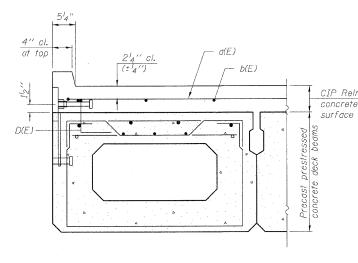




<u>SECTION A-A</u> (Showing dimensions)

VIEW B-B





# CIP Reinforced concrete wearing surface $A_1(E) & B(E)$ $S_2(E) & B_1(E)$ 2 strands 2 strands 2 strands 3 sp. 8 strands 6 strands 5'' 2'' cis. 2'' SECTION A-A

### SECTION THRU EXTERIOR BEAM

(Showing reinforcement and permissible strand locations)

See Typical Section Thru Interior Beam for strand pattern, dimensions and bar call outs. CWS and Curb shall be poured in the field. 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 information only)									
Bar	No.	Size	Length	Shape					
A(E)	14	#4	2'-7''						
$A_1(E)$	26	#4	2'-11''	~~					
B(E)	4	#5	42'-4''						
$B_I(E)$	3	#4	42'-4"						
D(E)	16	#4	2'-9"						
S(E)	62	#4	6′-5′′						
$S_1(E)$	10	#4	4'-11''						
$S_2(E)$	52	#4	5'-2"	Γ7					
U(E)	8	#5	4'-0"						
$U_1(E)$	4	#4	5'-0"						

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

\* Exterior Beams only

### 21" x 36" PPC DECK BEAM US 52 OVER FORKED CREEK STA. 65+70

S.N. 099-0133

SHEET NO.S-4	F.A.P RTE.	F.A.P RTE. SECTION			TOTAL SHEETS	SHEET NO.
311EE1 1101 0 1	852	18	В	WILL	31	19
S-13 SHEETS		hands to the second sec		CONTRACT	NO. 6	0D87
	FED. ROAD	DIST. NO.	ILLINOIS FED. A	D PROJECT		

### PLAN VIEW

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

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

5-16-08

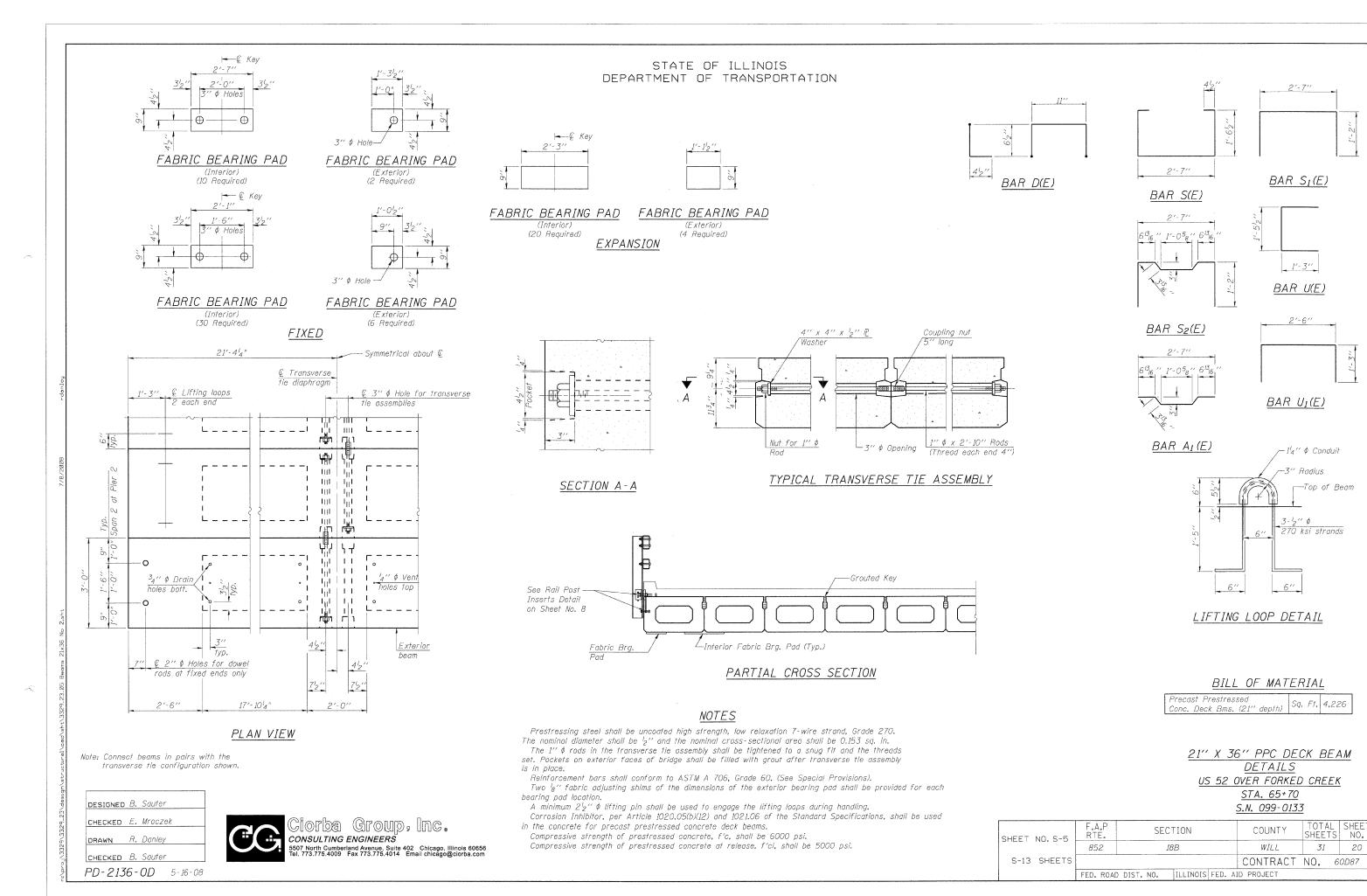
CONSULTING ENGINEERS

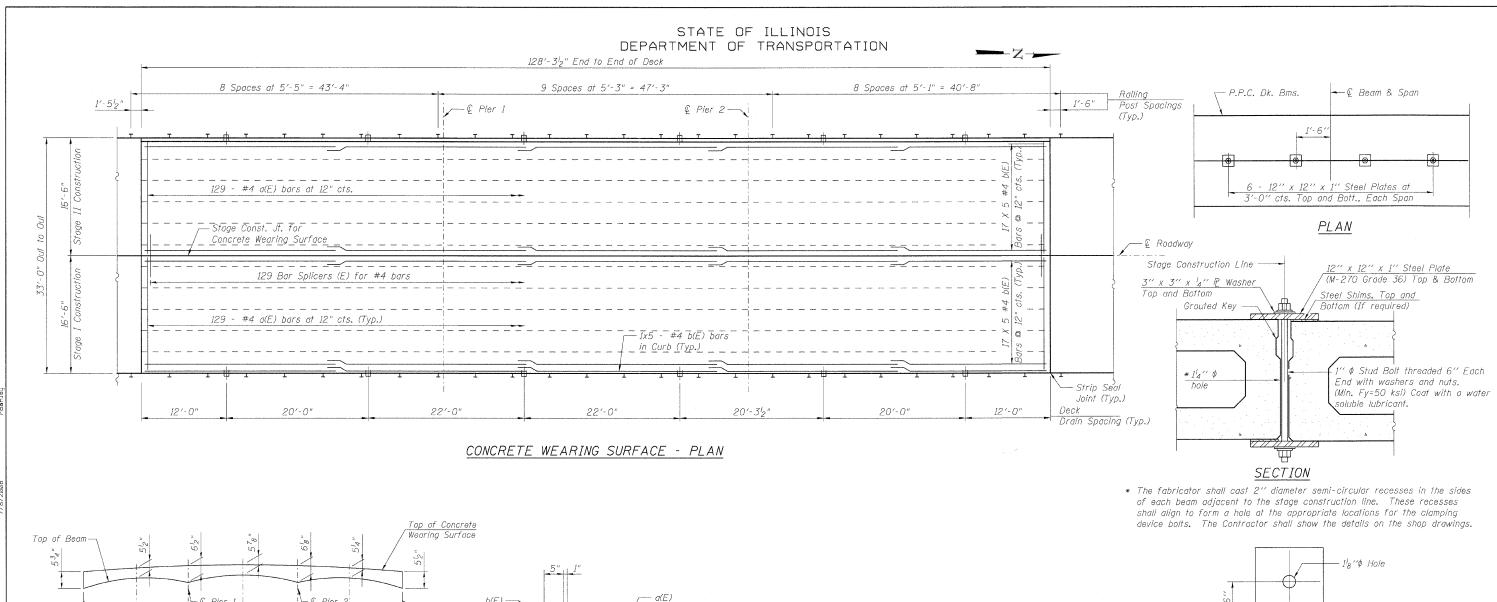
5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014 Email chicago@clorba.com

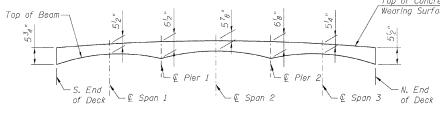
29\_23\_04 Beams 21×36 No 1.sht

design\structural\cad\sht\3329\_23\_04 Beams

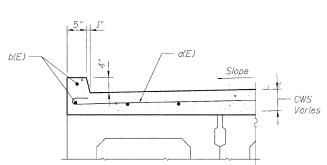
<u>снескед</u> В. Sau PD-2136-0



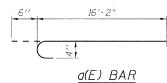




REINFORCED CONCRETE WEARING SURFACE PROFILE



SECTION THRU CURB Curbs shall be poured in the field.



### BILL OF MATERIAL

=				-
Bar	No.	Size	Length	Shape
a(E)	258	#4	16'-8"	
b(E)	180	#4	26'-11"	
Reinforc Epoxy C	l ement Ba pated	Pound	6,070	
	Wearing		Sq. Yd.	470
Bridge D	eck Groo	ving	Sq. Yd.	442
Bar Spli	cers	Each	129	
Preforme Seal	ed Joint S	Foot	66	

CLAMPING PLATE

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

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

LAP LENGTH # 4 bars - 1'-8"

SUPERSTRUCTURE DETAILS 1 US 52 OVER FORKED CREEK STA. 65+70 S.N. 099-0133

SHEET	NO. S-6	F.A.P RTE.	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
J. ILL 1		852	18B			WILL	31	21
S-13	SHEETS					CONTRACT	NO. 6	0D87
		FED. ROAD	DIST. NO.	ILLINOIS	FED. AI	D PROJECT		

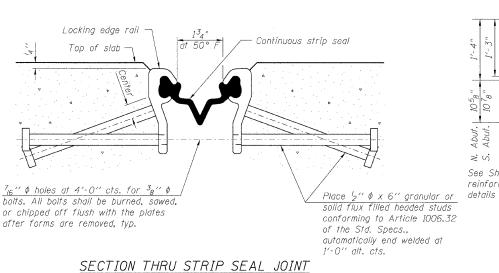
DESIGNED B. Sauter CHECKED E. Mroczek DRAWN R. Danley

CHECKED B. Sauter

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

### NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated. 2. Bars indicated thus 2x3-#4 etc. indicates 2 lines of bars with 3 lengths per line.



Expansion Joint Concrete Wearing at 50° F See Detail A on Surface this sheet Galvanized Drain Approach. Tubes Spaced as slab shown on Sheet No. 6. Fabric bearing pad  $\binom{l_4}{4}$  thick) ×° ∨; See Sheet S-10 for reinforcement - € Brg. Pad Bk. Abut.

Hatched area to be poured after concrete wearing surface is in place.

SECTION THRU ABUTMENT

See Sheet S-10 - for quantities.

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

Curbs shall be poured in the field. Caulk bottom of tube inside & out Bend Approx. 8" x 4" x 3<sub>16</sub>" Galv. Tube DRAIN DETAIL

SECTION THRU CURB

Slope 2:1

at drains

Rend a(F)

at drains

- CWS Varies

Slope

Cost of drains is included with Concrete Wearing Surface

SECTION THRU PIER 2

Looking West

(Place first bar above rail anchorage). #4 a(E) bars  $A \blacktriangleleft$ at 12" cts.

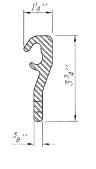
#4 b(E) bars at 12'' cts.

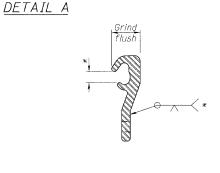
### RAIL ANCHORAGE PLAN

Notes:

The rail anchorage shall be cast with the beam and the wearing surface shall be cast in the field. Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam. Drilling into the beam will not be permitted.

For the rail posts location see Sheet S-6.





### LOCKING EDGE RAIL

### LOCKING EDGE RAIL SPLICE

\* Omit weld at seal opening.

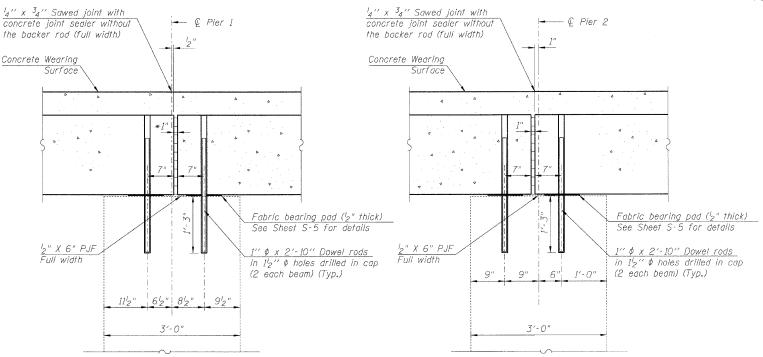
The strip seal shall be made continuous and shall have a minimum thickness of  $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.

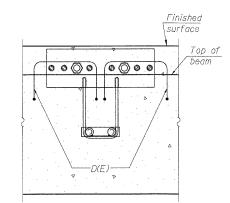
FOR OVERLAY OVER DECK BEAMS

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.





SECTION A-A

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

CHECKED B. Sauter

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### Looking West *Notes:*

SECTION THRU PIER 1

After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys

\* 1" Jt. shall be filled with non-shrink

accomodate tolerance in beam lengths.

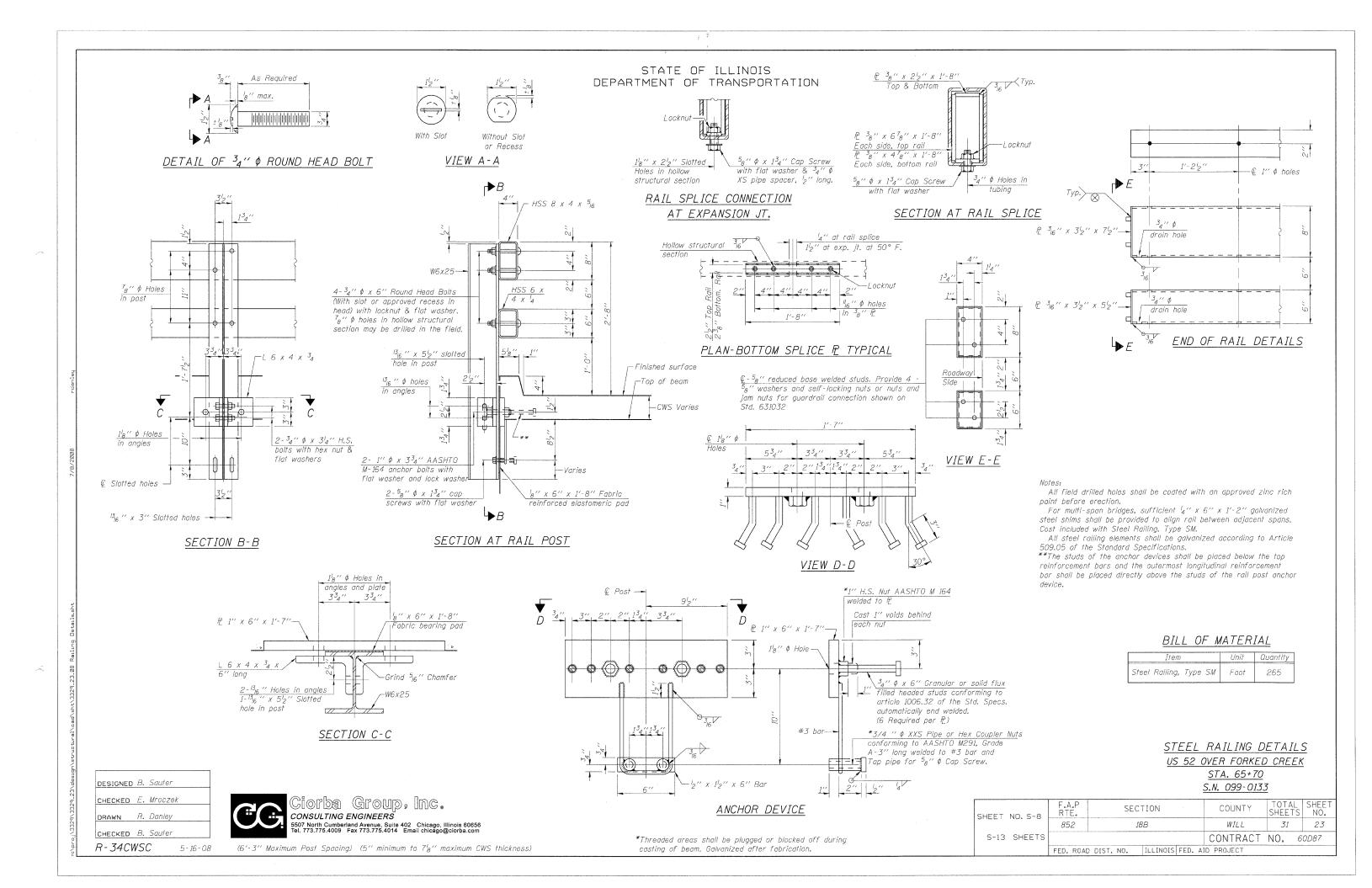
grout. 1" dimension may vary to

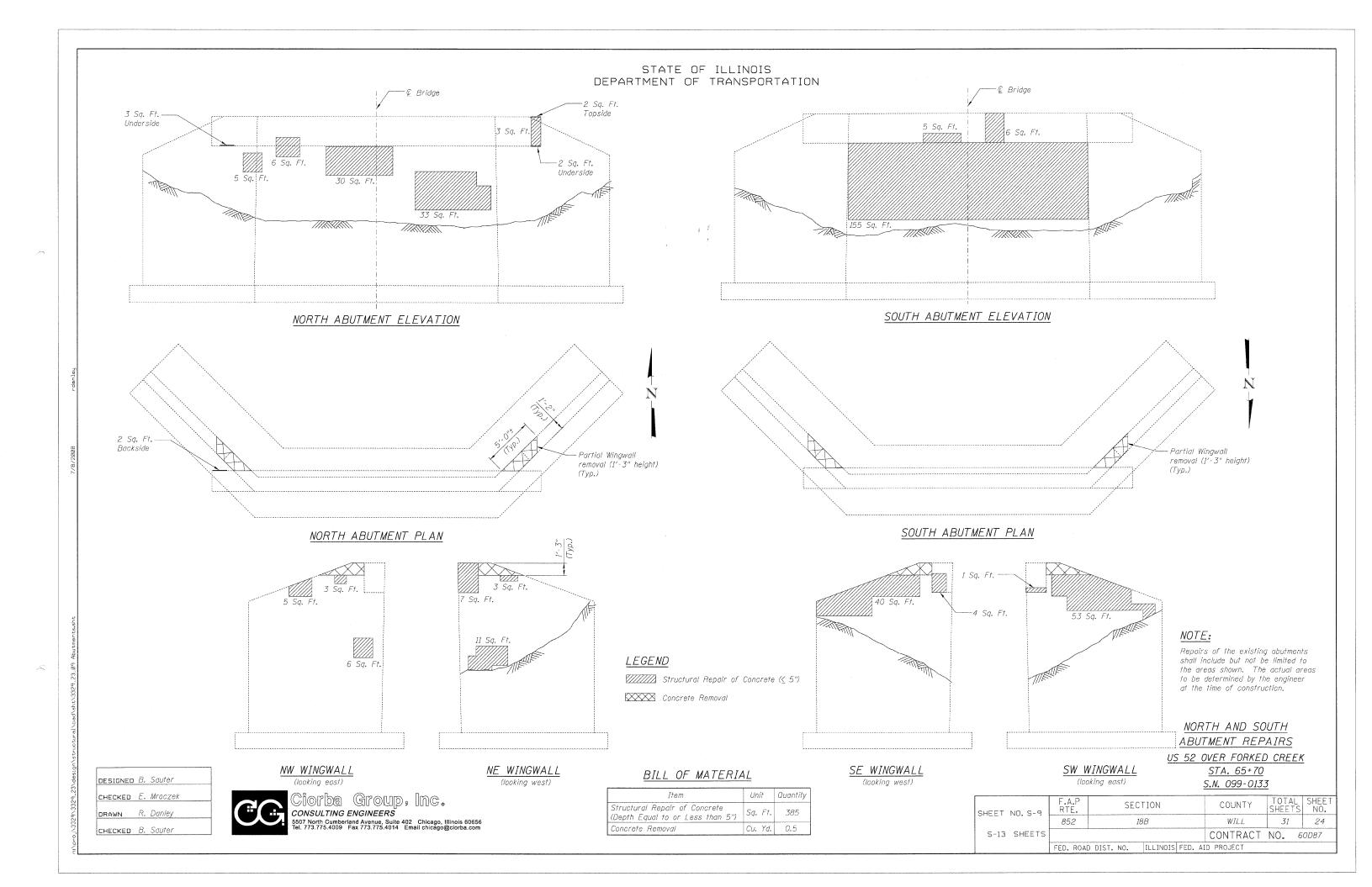
All horizontal dimensions are at right angles to beam ends.

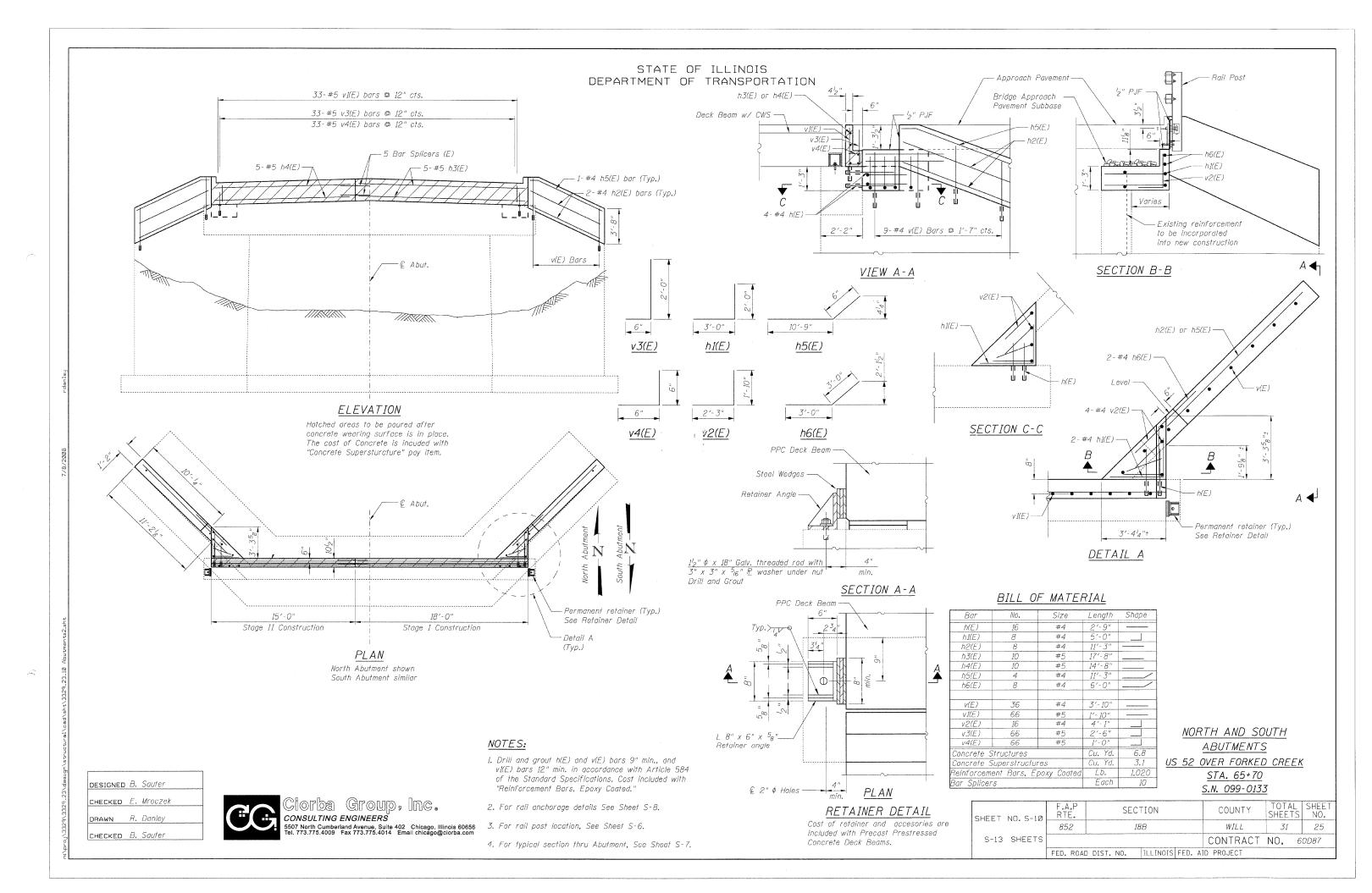
See sheet S-5 for bearing pad details.

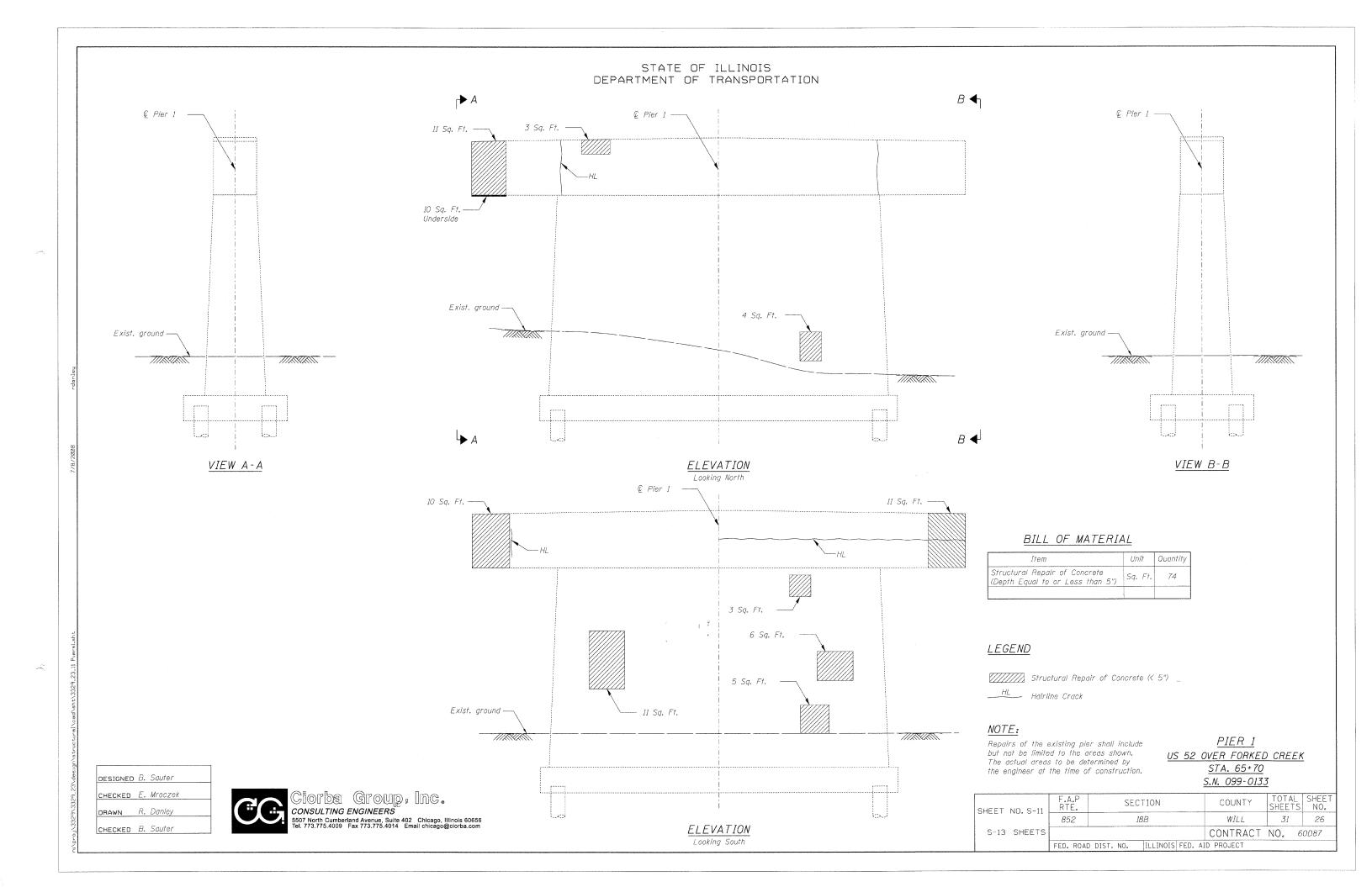
SUPERSTRUCTURE DETAILS 2 US 52 OVER FORKED CREEK STA. 65+70 S.N. 099-0133

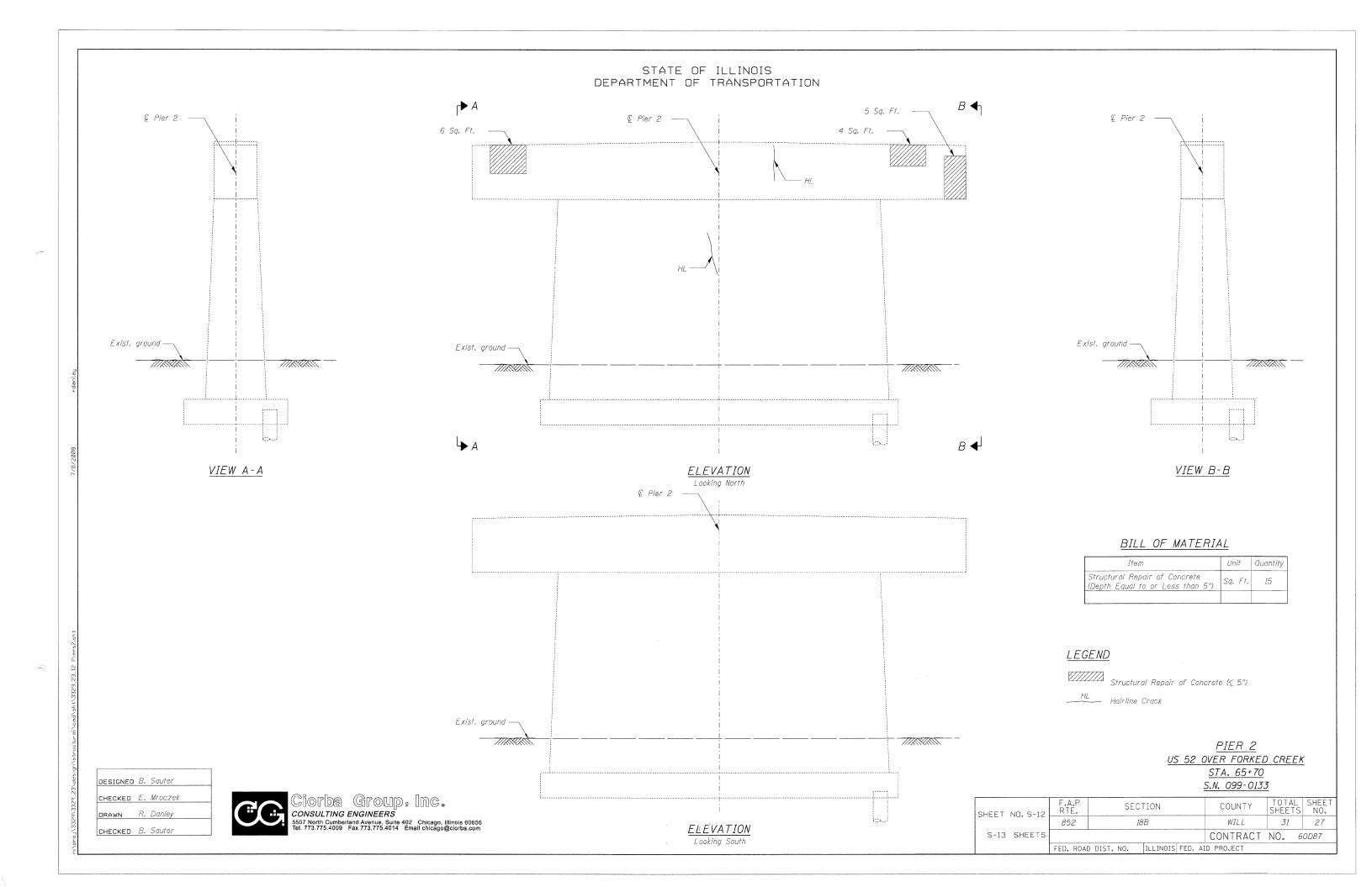
SHEET NO. S-7	F.A.P RTE.	, SEC1	TION	COUNTY	TOTAL SHEETS	SHEET NO.
J30021 140. 3 7	852	18	'B	WILL	31	22
S-13 SHEETS				CONTRACT	NO. 6	OD87
	FED. ROAL	DIST. NO.	ILLINOIS FED. A	ID PROJECT		











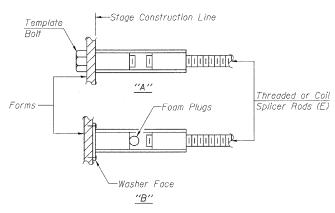
ROLLED THREAD DOWEL BAR

of the bar spliced.

\*\* ONE PIECE 747474 WELDED SECTIONS

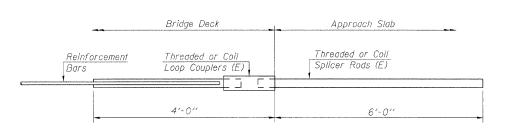
### BAR SPLICER ASSEMBLY ALTERNATIVES

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



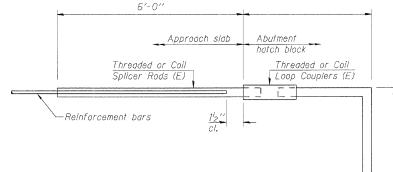
### INSTALLATION AND SETTING METHODS

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



### FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

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



FOR STUB ABUTMENTS

	Bar	Splicer for #5 bar
Min.	Capacity	= 23.0 kips - tension
Min.	Pull-out	Strength = 12.3 kips - tension
No.	Required	Accessed a contract of the con

Bar spiicer 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.

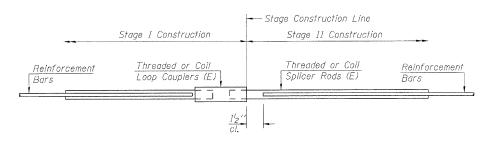
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

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:

(lension iii kipə) Minimum \*Pull-out Strength = 0.66 x fy x A<sub>1</sub> 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. 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	129	Deck Overlay
#5	10	Abut. Backwall

BAR SPLICER DETAILS US 52 OVER FORKED CREEK STA. 65+70 S.N. 099-0133

SHEET NO. S-13		F.A.P RTE.	SECTION					COUNTY	TOTAL SHEETS	SHEET NO.
311221	110. 5 15	852	18B				WILL	31	28	
S-13	SHEETS		- St. 490.00 Ly				CONTRACT	NO. 6	0D87	
		FED. ROAD	DIST. NO	Э.	ILLINOIS	FED.	ΑI	) PROJECT		

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

BSD-1

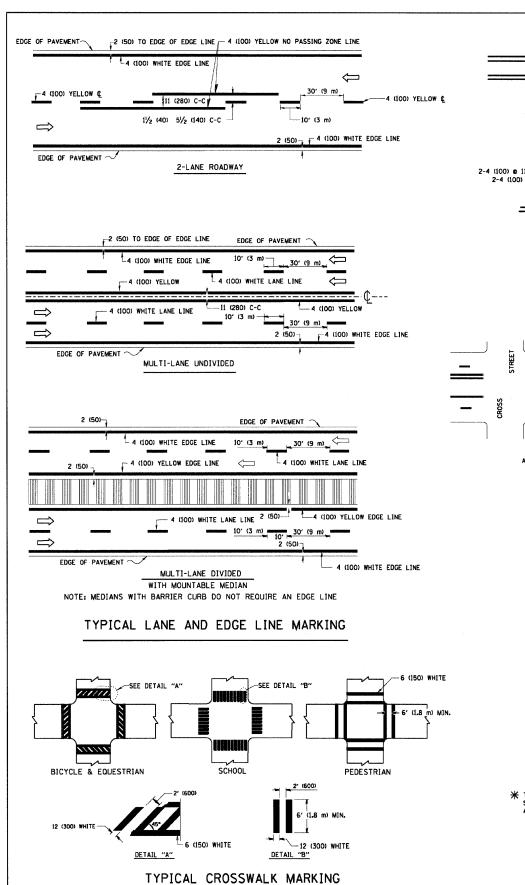
No. Required =

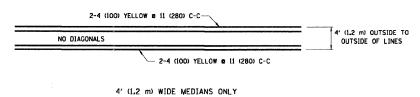
Ciorba Group, Inc. CONSULTING ENGINEERS 5507 North Cumberland Avenue, Sulte 402 Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014 Email chicago@ciorba.com

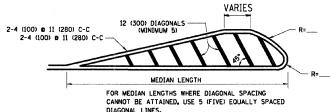
5-16-08

CONTRACT NO. COUNTY TOTAL SHEE SHEETS NO. SECTION WILL TO STA. STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT 80' (24 m) 0.C. \*\*\* 3 0 40' (12 m) O.C. \_ ← 80' (24 m) O.C. SEE NOTE B  $\Leftrightarrow$ D & \*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS. 40' (12 m) O.C. TWO-LANE/TWO-WAY SEE NOTE A LANE REDUCTION TRANSITION TWO-WAY LEFT TURN 80' (24 m) O.C. SEE NOTE B GENERAL NOTES SYMBOLS MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS. YELLOW STRIPE 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN. ONE-WAY AMBER MARKER 3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS. ONE-WAY CRYSTAL MARKER (W/O) TWO-WAY AMBER MARKER SEE NOTE A-MULTI-LANE/UNDIVIDED LANE MARKER NOTES SEE NOTE A 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. MULTI-LANE/DIVIDED A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN. DESIGN NOTES 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE. 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 MINIMUM OF 3 W EQUALLY SPACED 3 @ 80' (24 m) O.C. SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED. 3 to 40' (12 m) 40' (12 m)  $\Rightarrow$ All dimensions are in inches (millimeters) unless otherwise shown. \* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE ILLINOIS DEPARTMENT OF TRANSPORTATION \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS. TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) LEFT TURN SCALE: NONE DRAWN BY CADD CHECKED BY

OT DATE = 3/6/2007 LE NAME = Kildistotolidge OT SCALF = FRURBR / IN.

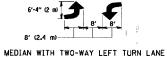






DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

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



TYPICAL PAINTED MEDIAN MARKING

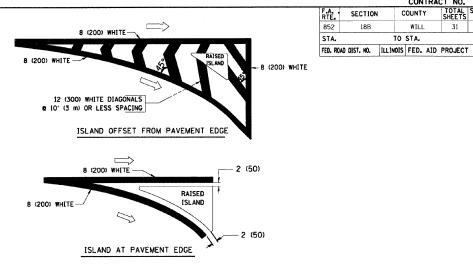
# - 25' (8 m) TO 49' (15 m) \_\_\_50' (15 m) TO 200' (60 m) \* 10' (3 m) 6 (150) WHITE 16' (5 m) \_\_ 6 (150) WHITE

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  $\P$  AREA = 15.6 SO. FT. (1.5 m<sup>2</sup> )  $\P$  AREA = 20.8 SO. FT. (1.9 m<sup>2</sup>)

\* 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 L'ANE 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 <b>0</b> 4 (100)	SOLID SOLID	YELLOW YELLOW	5/ <sub>2</sub> (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 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: 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' (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.
CORE 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 ml LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS	12 (300) <b>c</b> 45°	SOLID	WHITE - RIGHT	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.

CONTRACT NO

WILL

REVISION		THINOIS	DEPARTMENT OF TRANSPORTATION				
NAME	DATE	ILLINOIS	DEI AITHENT OF TRANSFORTATION				
EVERS	03-19-90						
T. RAMMACHER	10-27-94		DISTRICT ONE				
ALEX HOUSEH	10-09-96	_					
ALEX HOUSEH	10-17-96	T	YPICAL PAVEMENT				
T. RAMMACHER	T. RAMMACHER 01-06-00		MARKINGS				
			MAKKINGS				
	-	SCALE: NONE	DRAWN BY CADD				
			CHECKED BY				
			TC-13				

DATE VAME SCALE NAME

