

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 852/US ROUTE 52
OVER JACKSON CREEK
SECTION 18 B-4-R-1
BRIDGE DECK OVERLAY

PROJECT: *ESP-0852(011)*
WILL COUNTY
C-91-118-08

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
852	18 B-4-R-1	WILL	27	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 60D84		

FOR INDEX OF SHEETS SEE SHEET NUMBER 2

THIS IMPROVEMENT IS LOCATED
IN UNINCORPORATED WILL COUNTY
IN MANHATTAN TOWNSHIP

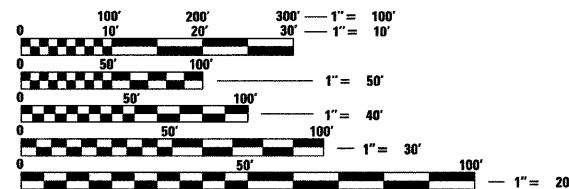
IMPROVEMENT LOCATION
SN: 099-0129

TRAFFIC DATA

2005 ADT - 900
POSTED SPEED LIMIT - 55 MPH

US 52 OVER JACKSON CREEK

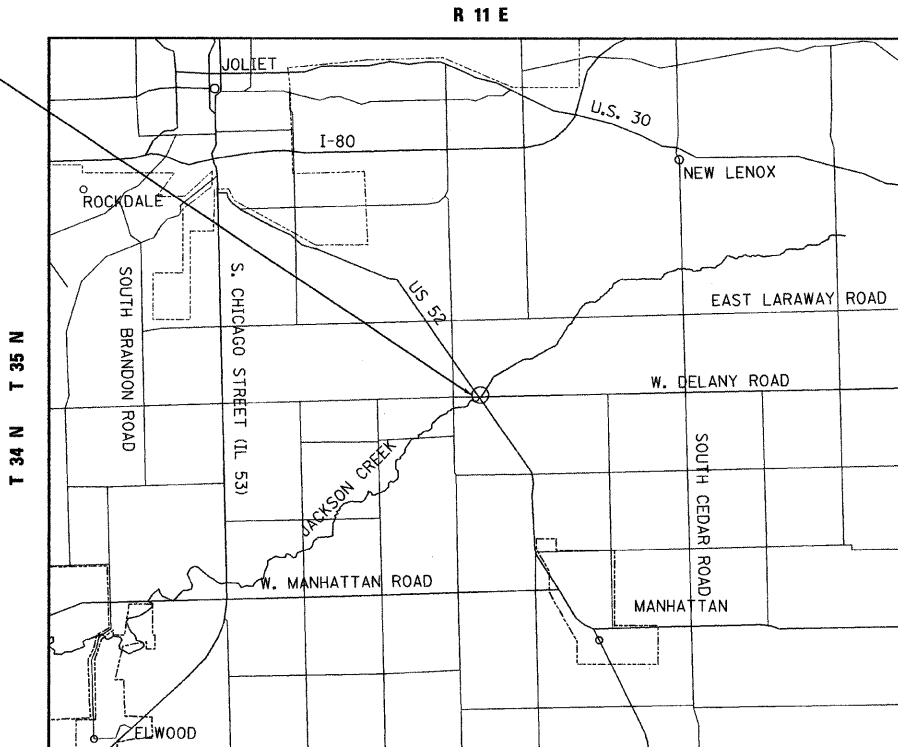
SN: 099-0129 (STA. 524+51)
2-SPAN PPC DECK BEAM BRIDGE
ON PIERS AND CLOSED ABUTMENTS



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.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

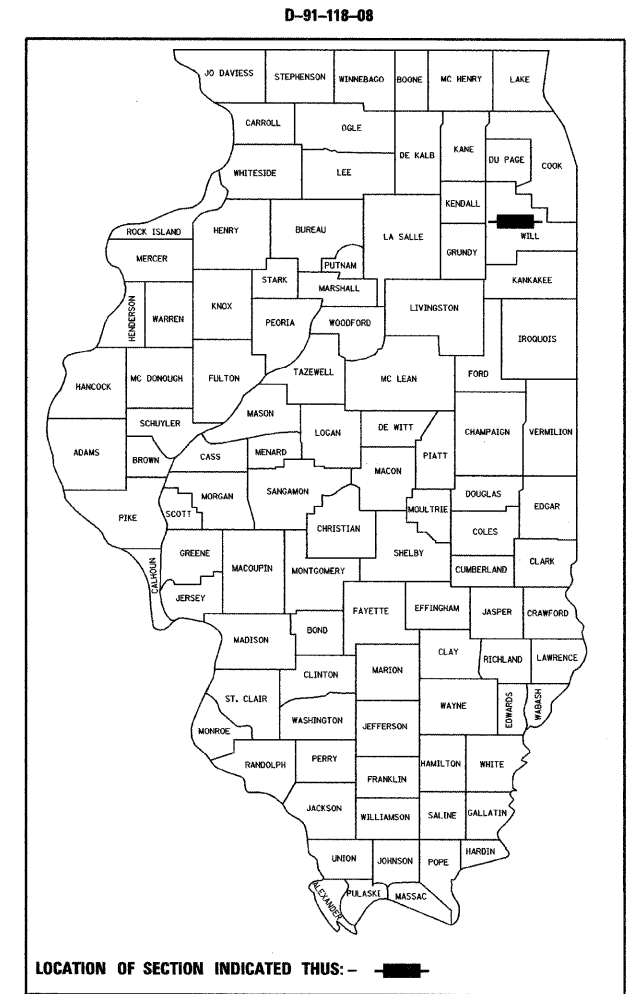
Ciorba Group, Inc.
DESIGN FIRM
REGISTRATION NUMBER
184-001016
CONSULTING ENGINEERS
SUITE 402, 5507 NORTH CUMBERLAND AVE
CHICAGO, ILLINOIS 60656 ☎ (773) 775-4009



MANHATTAN TOWNSHIP
LOCATION MAP

1" = 5000'

GROSS LENGTH AND NET LENGTH OF PROJECT = 340' = 0.06 MI.



LOCATION OF SECTION INDICATED THIS: - [shaded area]

MATTHEW J. LEHAN
062-057159
LICENSED PROFESSIONAL ENGINEER
OF ILLINOIS
DATE: 1/8/2009
SEAL EXPIRES: 11/30/2009

EWA K. MROCZEK
081-006087
STRUCTURAL ENGINEER
DATE: 1/8/2009
SEAL EXPIRES: 11/30/2010

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED JANUARY 8, 2009
Diana M. O'Keefe DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
March 13, 2009
Charles G. Ingersoll ENGINEER OF DESIGN AND ENVIRONMENT
March 13, 2009
Christina M. Reed DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

CONTRACT NO. 60D84

DISTRICT 1 DESIGN PLAN PREPARATION ENGINEER: K.ENG (847) 705-4247

INDEX OF SHEETS

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27	ARTERIAL ROAD INFORMATION SIGN (TC-22)

STATE STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
515001-03	NAME PLATE FOR BRIDGES
630001-00	STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-04	TRAFFIC BARRIER TERMINAL, TYPE 6A
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701201-03	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701321-10	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901-01	TRAFFIC CONTROL DEVICES
704001-05	TEMPORARY CONCRETE BARRIER
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING LIGHT BEACON INSTALLATION

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE PAVEMENT MARKING LIMITS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 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.
- TWO WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS, CONTACT MS. CORA MATHIS, AREA TRAFFIC FIELD ENGINEER @ 815-485-6475
- 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.
- 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.

COMMITMENTS

NONE

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

OPERATIONS	MIXTURE TYPE	AC TYPE	PERCENT AIR VOIDS
ROADWAY AND BRIDGE APPROACH RESURFACING	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5 mm), 1 1/2"	PG 64-22	4% @ 70 GYR

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

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PLOT DATE = 1/13/2009	DATE - 05/15/2008	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 852 /US ROUTE 52
US ROUTE 52 OVER JACKSON CREEK
INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
852	18 B-4-R-1	WILL	27	2
CONTRACT NO. 60D84			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES			100% FED. URBAN TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
CODE NO.	DESCRIPTION	UNIT		ROADWAY 1000-2A	BRIDGE X081-2A
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	105	105	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	60	60	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	45	45	
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	510	510	
44000915	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	208		208
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	251	251	
50300260	BRIDGE DECK GROOVING	SQ YD	208		208
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	88	88	
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	558	558	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	1	3
67100100	MOBILIZATION	L SUM	1	0.2	0.8
70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.2	0.8
70102550	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	EACH	1	0.2	0.8
70106700	TEMPORARY RUMBLE STRIP	EACH	6	6	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	8	8	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1,067	1,067	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	274	274	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	274	274	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1,740	1,740	
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	100	100	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	12	12	
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	1	1	
* 78200450	MONODIRECTIONAL GUARD RAIL REFLECTORS	EACH	8	8	
* 78200530	BARRIER WALL MARKERS, TYPE C	EACH	25	25	
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	

* DENOTES SPECIALTY ITEM

SUMMARY OF QUANTITIES			100% FED. URBAN TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
CODE NO.	DESCRIPTION	UNIT		ROADWAY 1000-2A	BRIDGE X081-2A
78300105	PAVEMENT MARKING REMOVAL	FOOT	2,025	2,025	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	12	12	
* 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	7	7	
* 83057355	LIGHT POLE, WOOD, 60 FOOT, CLASS 4, WITH 15FT MAST ARM	EACH	7	7	
* 84100110	REMOVAL OF TEMPORARY LIGHTING UNITS	EACH	7	7	
* 84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1	1	
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	26	26	
* X0323574	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	4	4	
X0323818	CLEANING AND PAINTING EXPOSED REBAR	SQ FT	450		450
X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	29		29
X0325775	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4 INCH	FOOT	3,057	3,057	
X0325841	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 24 INCH	FOOT	24	24	
X0326133	TEMPORARY WOOD POLE, 45 FT, CLASS 5	EACH	2	2	
* X0326135	ELECTRIC SERVICE DISCONNECT, LIGHTING AND TRAFFIC SIGNAL	EACH	1	1	
* B1800320	AERIAL CABLE, 3-1/C NO. 4, ALUMINUM, WITH MESSENGER WIRE	FOOT	1,350	1,350	
* X8900005	TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION	EACH	1	1	
* XX006937	GROUND ROD, 5/8" DIA. X 10 FT.	EACH	3	3	
X0322489	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	208		208
Z0006204	BRIDGE DECK HYDRO-SCARIFICATION 1/2"	SQ YD	208		208
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.2	0.8
Z0015595	DECK DRAIN EXTENSIONS	EACH	12		12
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	1.1		1.1
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	5.1		5.1
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	1	1	

42101500 PROTECTIVE COAT 59 YD 208 208

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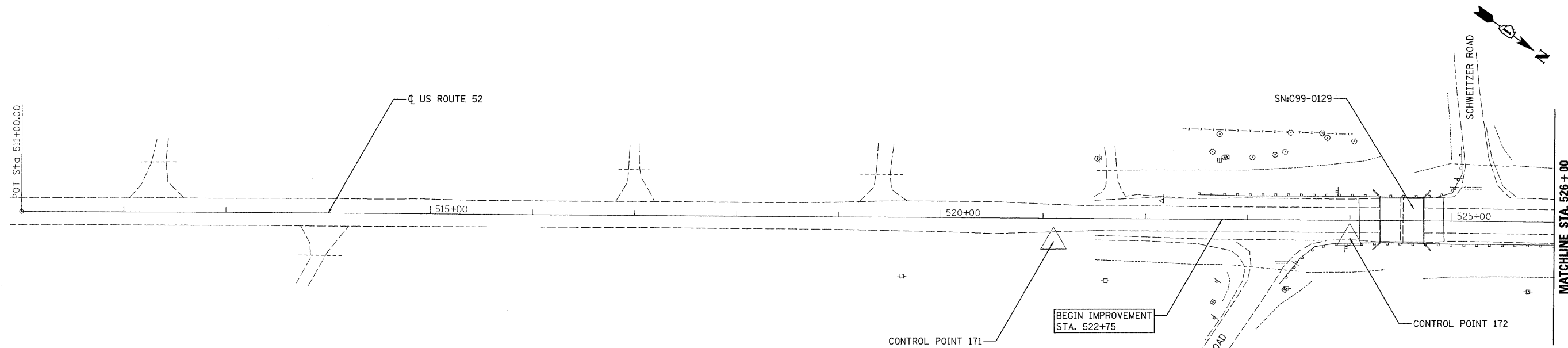
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 852 /US ROUTE 52
US ROUTE 52 OVER JACKSON CREEK
SUMMARY OF QUANTITIES**

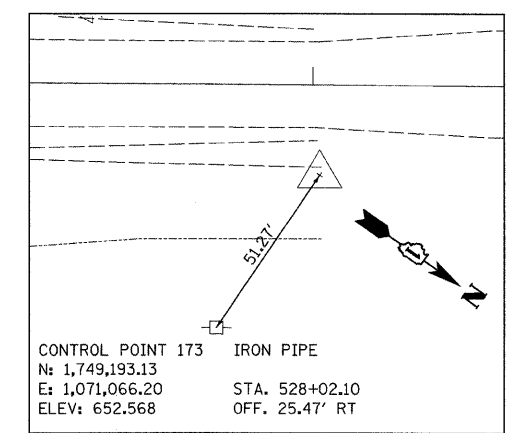
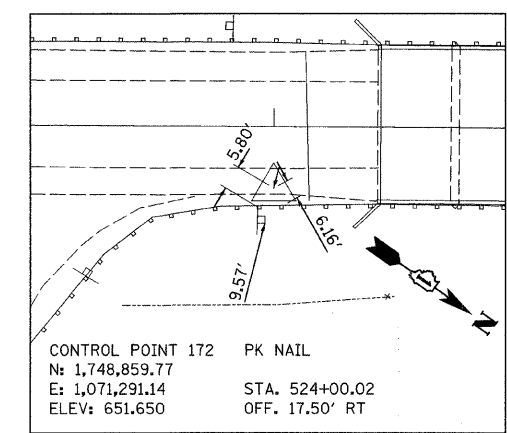
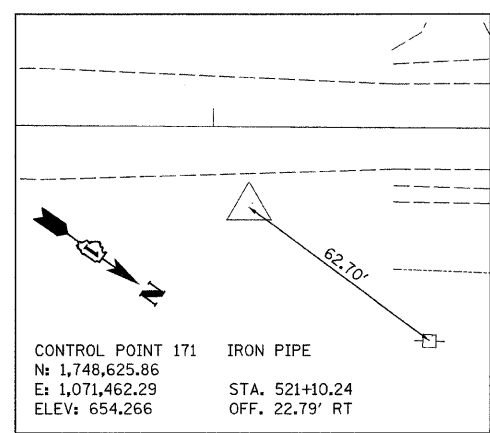
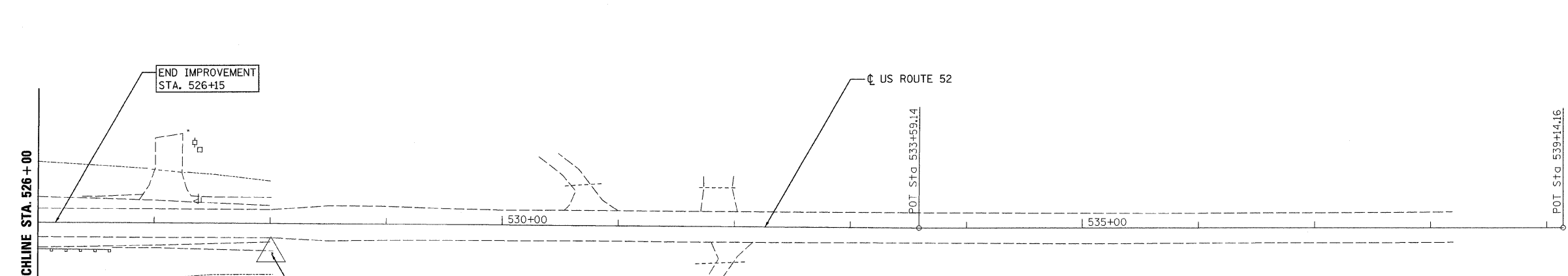
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FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D84	

Rev.



PROJECT COORDINATES
US ROUTE 52 CENTERLINE

DESCRIPTION	NORTHING	EASTING
P.O.T. 511+00.00	1,747,786.68	1,072,025.20
P.O.T. 533+59.14	1,749,633.95	1,070,724.71
P.O.T. 539+14.16	1,750,085.55	1,070,402.04



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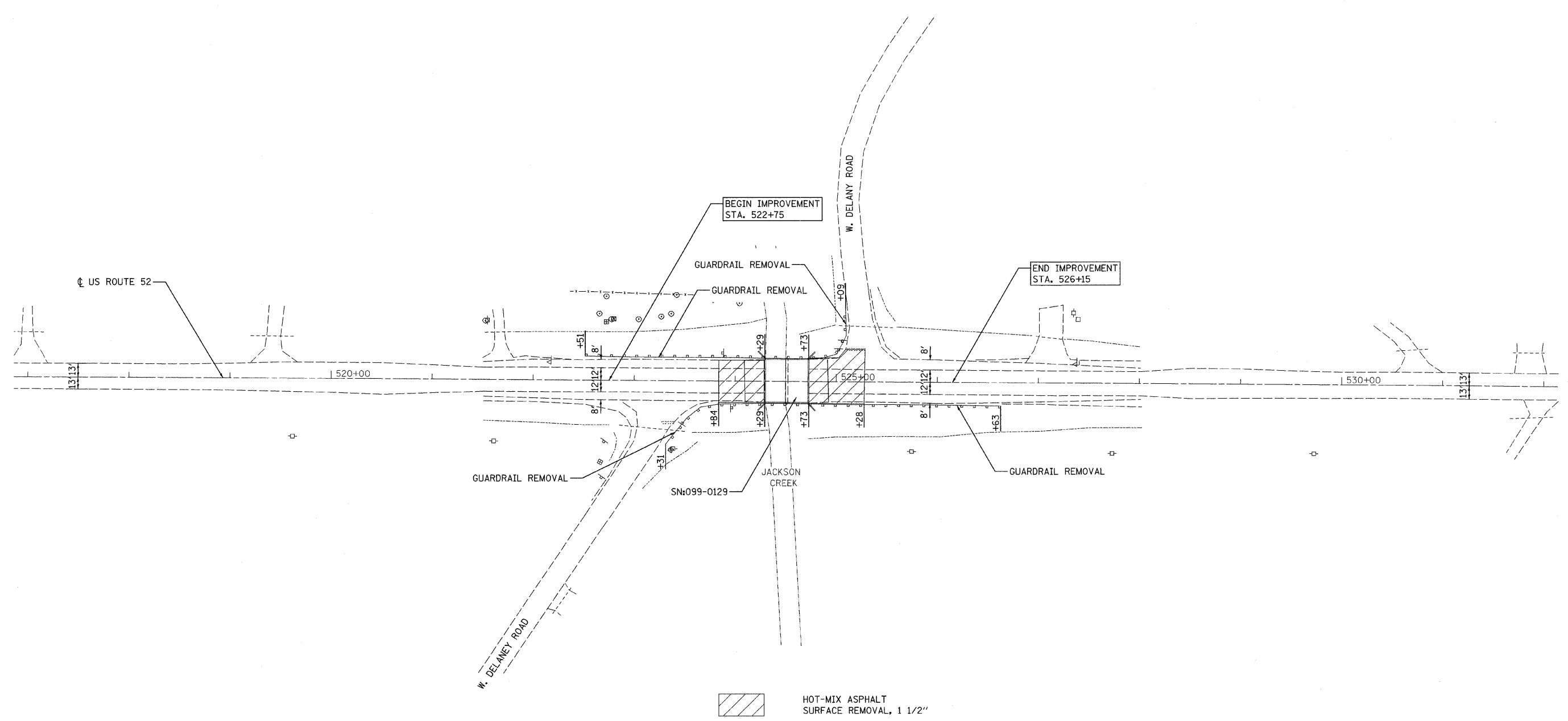
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
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 852 /US ROUTE 52
US ROUTE 52 OVER JACKSON CREEK
ALIGNMENT AND CONTROL POINTS**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 852	SECTION 18 B-4-R-1	COUNTY WILL	TOTAL SHEETS 27	SHEET NO. 4
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT CONTRACT NO. 60D84		



 HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"

NOTE: THE EXISTING PAVEMENT CONSISTS OF 3 INCHES OF HOT-MIX ASPHALT OVER 9 INCHES OF PORTLAND CEMENT CONCRETE BASE COURSE.

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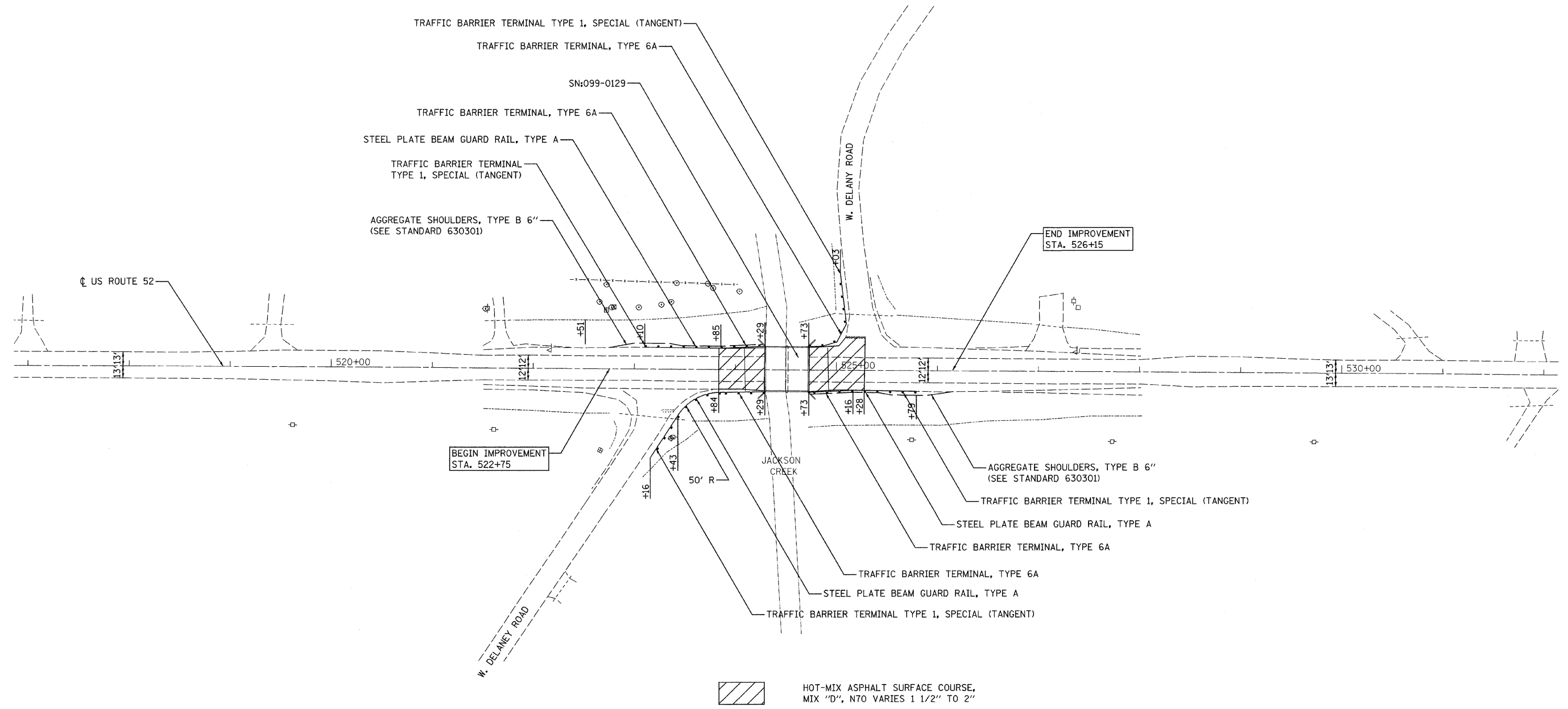
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	DATE - 05/15/2008	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAP 852 / US ROUTE 52
 US ROUTE 52 OVER JACKSON CREEK
 EXISTING CONDITIONS AND REMOVAL PLAN**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
852	18 B-4-R-1	WILL	27	5
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D84	



BEGIN IMPROVEMENT
STA. 522+75

END IMPROVEMENT
STA. 526+15

HOT-MIX ASPHALT SURFACE COURSE,
MIX "D", N70 VARIES 1 1/2" TO 2"

NOTE: SEE PROFILE GRADE ON SHEET NO. 17

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**





**FAP 852 / US ROUTE 52
US ROUTE 52 OVER JACKSON CREEK
PROPOSED ROADWAY PLAN**

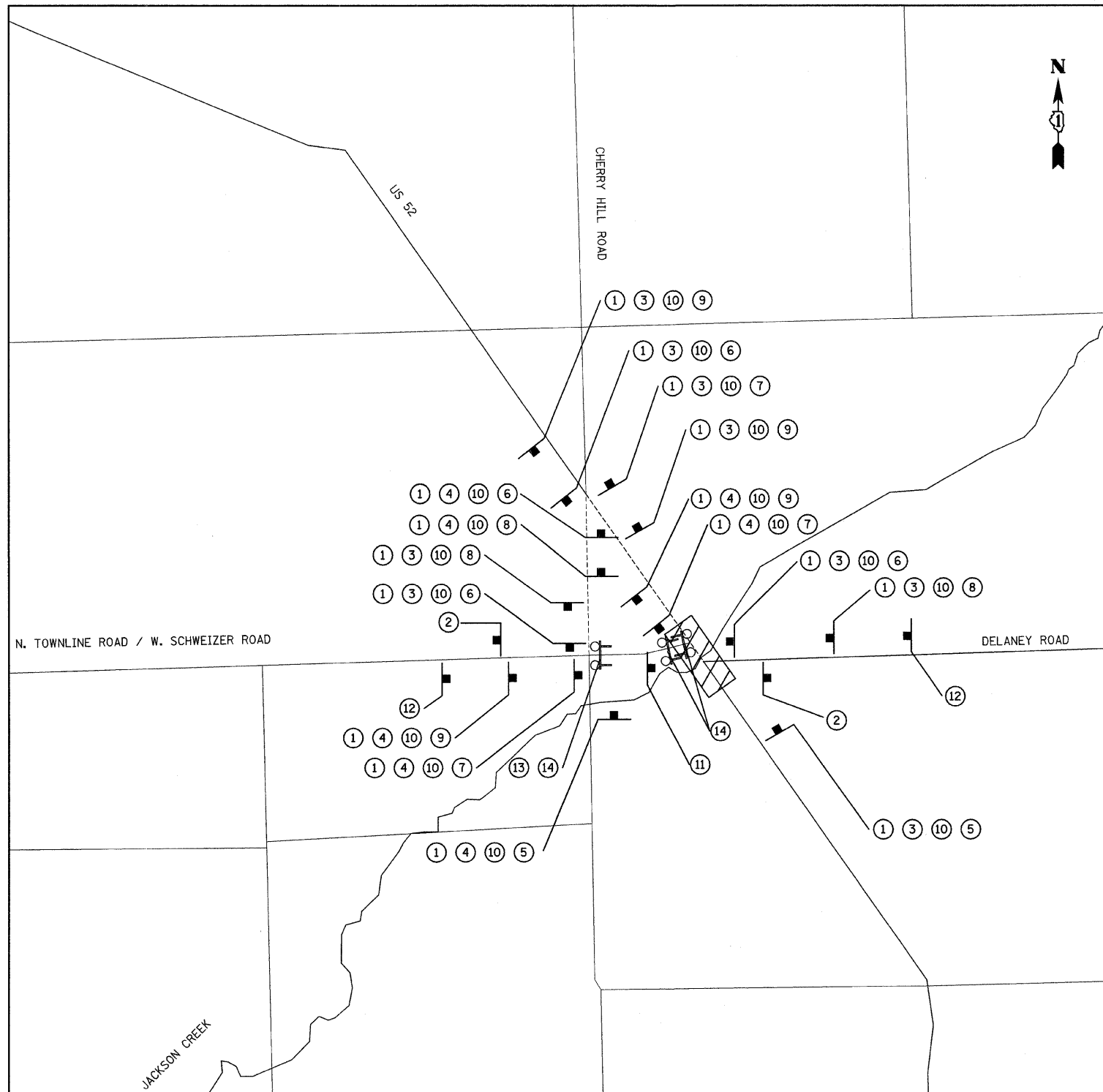
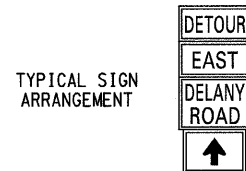
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
852	18 B-4-R-1	WILL	27	6
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60D84	

LEGEND

- ① **DETOUR** M4-8
24"x12"
- ② **END
DETOUR** M4-8A
24"x18"
- ③ **WEST** M3-4
24"x12"
- ④ **EAST** M3-2
24"x12"
- ⑤ **↑** M6-3
21"x15"
- ⑥ **→** M6-1
21"x15"
- ⑦ **←** M6-1
21"x15"
- ⑧ **↘** M5-1R
21"x15"
- ⑨ **↙** M5-1L
21"x15"
- ⑩ **DELANEY
ROAD** 24"x18"
- ⑪ **ROAD
CLOSED
500 FT** W20-3
48"x48"
- ⑫ **DETOUR
1500 FT** W20-2
48"x48"
- ⑬ **←
DETOUR** M4-10L
48"x18"
- ⑭ **ROAD
CLOSED** R11-2
48"x30"

-  **WORK ZONE**
-  **TYPE III BARRICADE WITH FLASHING
MONODIRECTIONAL LIGHTS**
-  **SIGN**
-  **DETOUR ROUTE**



DETOUR PLAN GENERAL NOTES

THE COST OF INSTALLING, MAINTAINING AND REMOVING THE DETOUR SHALL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR.

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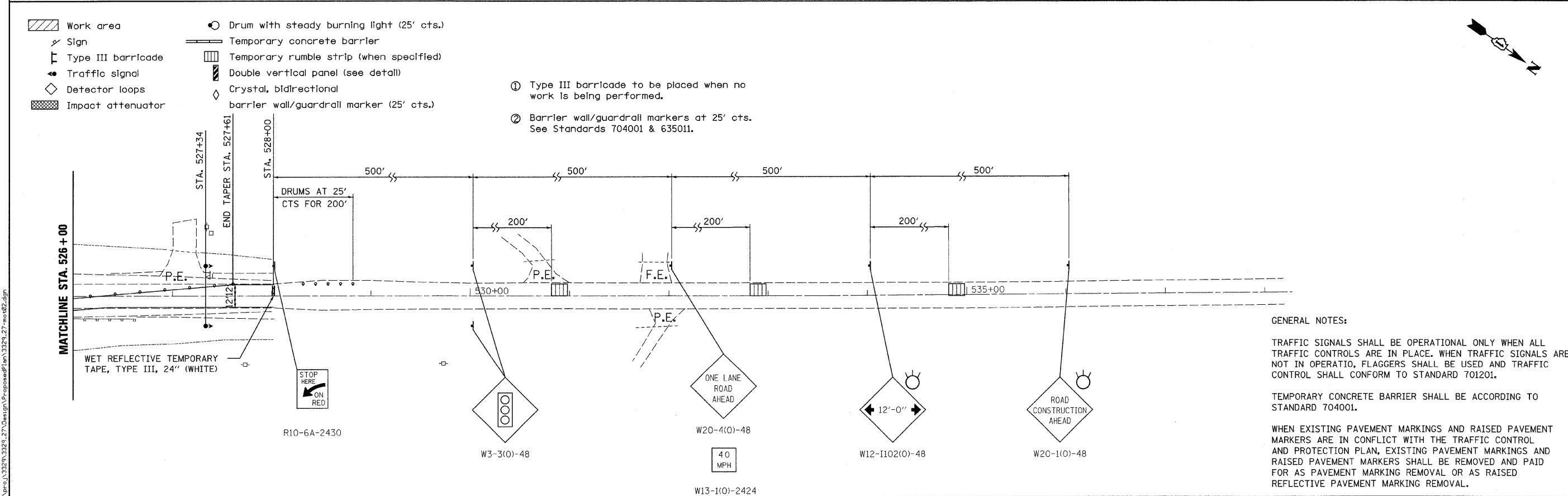
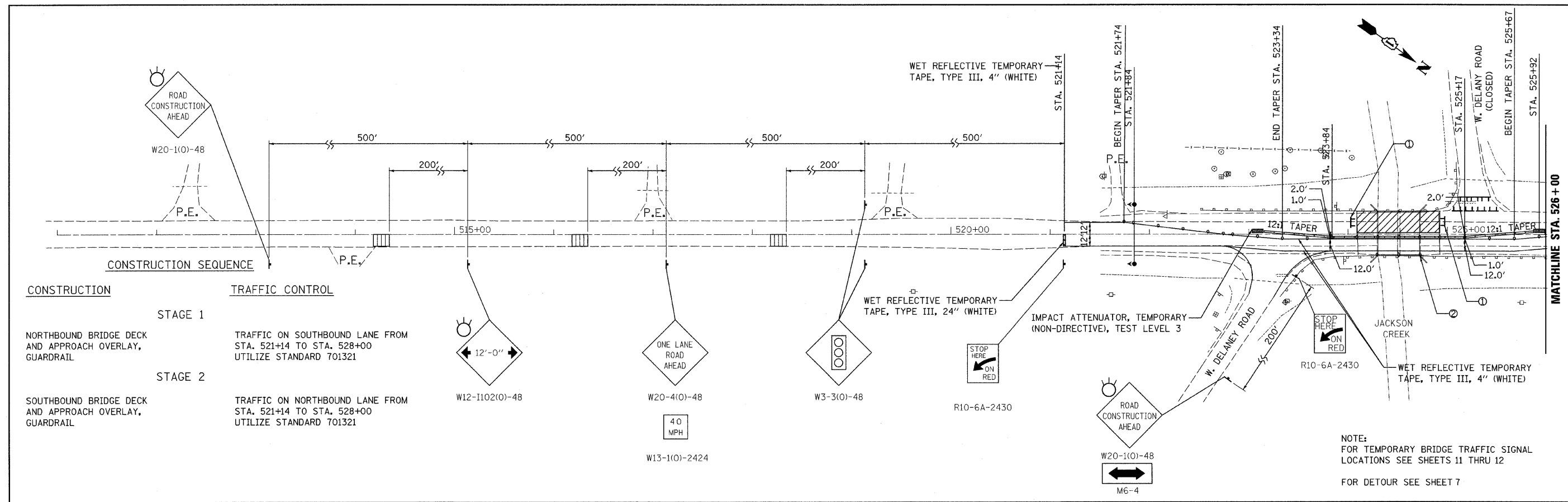
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PLOT DATE = 1/13/2009		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 852 / US ROUTE 52
US ROUTE 52 OVER JACKSON CREEK
TEMPORARY DETOUR PLAN**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 852	SECTION 18 B-4-R-1	COUNTY WILL	TOTAL SHEETS 27	SHEET NO. 7
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 60D84				



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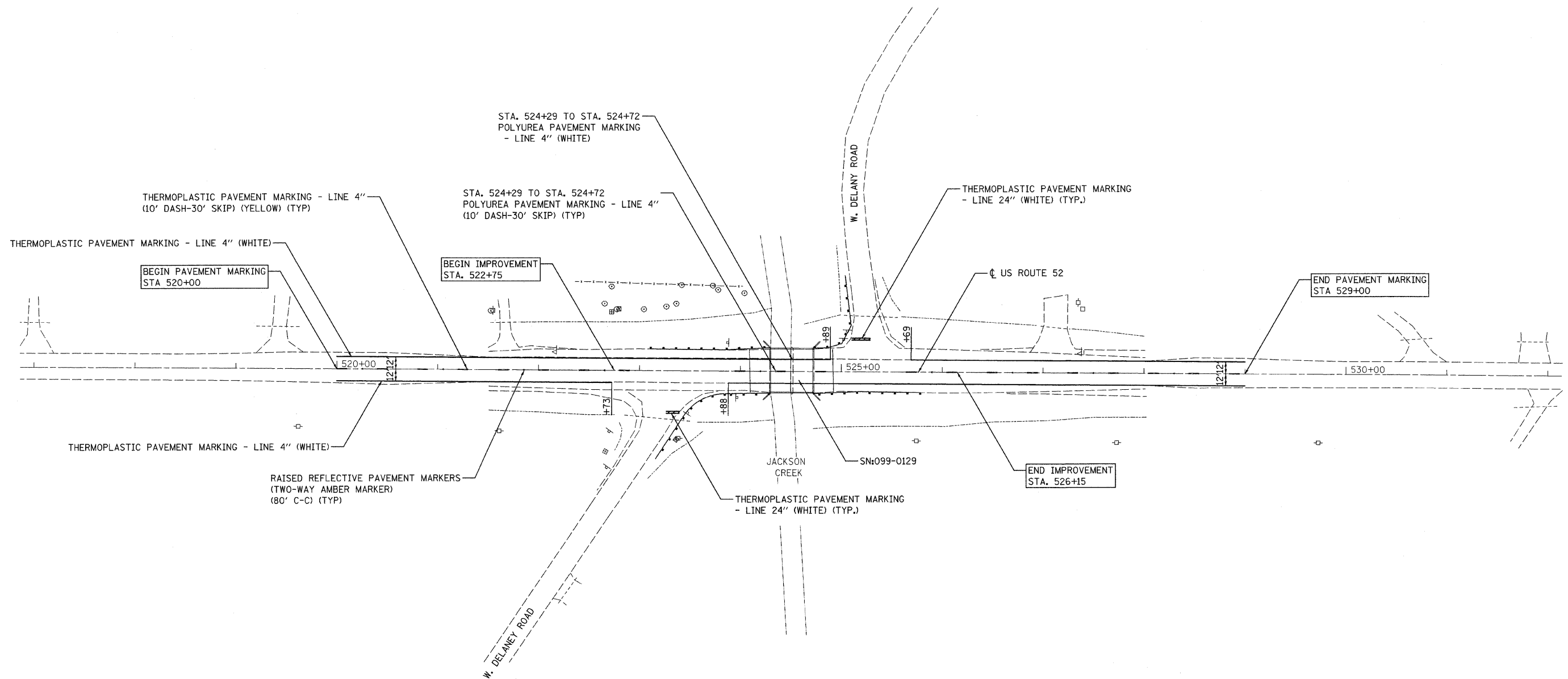
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 852 / US ROUTE 52
US ROUTE 52 OVER JACKSON CREEK
TRAFFIC CONTROL AND PROTECTION - STAGE 2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
852	18 B-4-R-1	WILL	27	9
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60DB4	

GENERAL NOTES:
 TRAFFIC SIGNALS SHALL BE OPERATIONAL ONLY WHEN ALL TRAFFIC CONTROLS ARE IN PLACE. WHEN TRAFFIC SIGNALS ARE NOT IN OPERATIO, FLAGGERS SHALL BE USED AND TRAFFIC CONTROL SHALL CONFORM TO STANDARD 701201.
 TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.
 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.



FILE NAME: n:\p\03329\3329-27\Design\ProposedPlan\3329-27-11.rvt

CG Ciorba Group, Inc.
 CONSULTING ENGINEERS
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 Chicago, Illinois 60656
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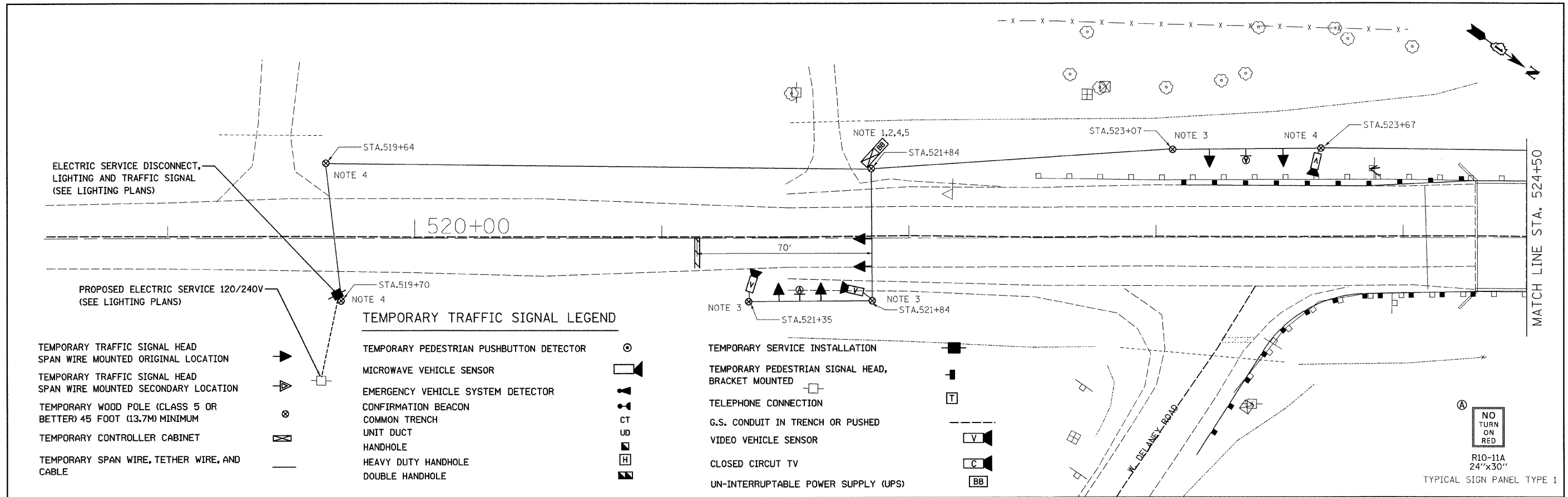
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PLOT DATE = 1/13/2009	CHECKED - MJL	REVISED -
	DATE - 05/15/2008	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**FAP 852 /US ROUTE 52
 US ROUTE 52 OVER JACKSON CREEK
 PAVEMENT MARKING PLAN**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
852	18 B-4-R-1	WILL	27	10
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D84	

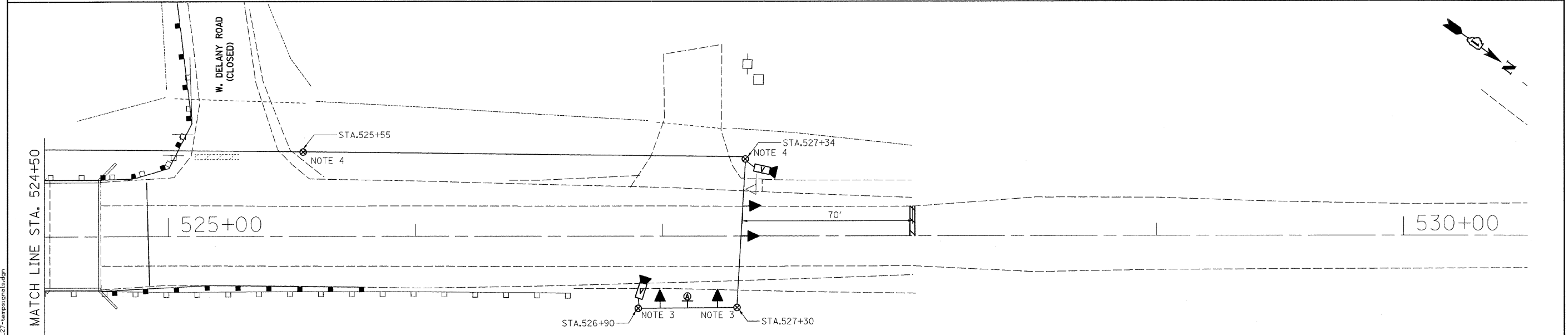


- ELECTRIC SERVICE DISCONNECT, LIGHTING AND TRAFFIC SIGNAL (SEE LIGHTING PLANS)
- PROPOSED ELECTRIC SERVICE 120/240V (SEE LIGHTING PLANS)
- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED ORIGINAL LOCATION
- TEMPORARY TRAFFIC SIGNAL HEAD SPAN WIRE MOUNTED SECONDARY LOCATION
- TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7M) MINIMUM
- TEMPORARY CONTROLLER CABINET
- TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE

- TEMPORARY TRAFFIC SIGNAL LEGEND**
- TEMPORARY PEDESTRIAN PUSHBUTTON DETECTOR
 - MICROWAVE VEHICLE SENSOR
 - EMERGENCY VEHICLE SYSTEM DETECTOR
 - CONFIRMATION BEACON
 - COMMON TRENCH
 - UNIT DUCT
 - HANDHOLE
 - HEAVY DUTY HANDHOLE
 - DOUBLE HANDHOLE

- TEMPORARY SERVICE INSTALLATION
- TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- TELEPHONE CONNECTION
- G.S. CONDUIT IN TRENCH OR PUSHED
- VIDEO VEHICLE SENSOR
- CLOSED CIRCUIT TV
- UN-INTERRUPTABLE POWER SUPPLY (UPS)

NO TURN ON RED
R10-11A
24"x30"
TYPICAL SIGN PANEL TYPE 1



- NOTES:**
- 1 CONTROLLER WITH STEEL BASE CABINET AND BATTERY BACK-UP CABINET SHALL BE MOUNTED ON A WOOD STAND.
 - 2 UN-INTERRUPTABLE POWER SUPPLY(UPS) SHALL BE INCLUDED IN "TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION" PAY ITEM.
 - 3 WOOD POLES INSTALLED BY THE TRAFFIC CONTRACTOR
 - 4 PROPOSED WOOD POLES FOR ROADWAY LIGHTING SHALL BE USED TO SUPPORT TRAFFIC SIGNAL CABLE.
 - 5 TRAFFIC SIGNAL AND ROADWAY LIGHTING SHALL UTILIZE A COMBINATION ELECTRIC SERVICE BOX. (SEE DETAIL ON LIGHTING PLAN)
 - 6 ALL SIGNAL HEADS SHALL BE L.E.D.
 - 7 THE TEMPORARY TRAFFIC SIGNAL CONTROLLER SUPPLIED BY THE CONTRACTOR SHALL INCLUDE THE CURRENT SOFTWARE VERSION A7 THE TIME OF INSTALLATION

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USER NAME = wlanaster	DESIGNED -	REVISED -
PLOT SCALE = 28.4823' / IN.	DRAWN -	REVISED -
PLOT DATE = 1/13/2009	CHECKED -	REVISED -
DATE = 05/15/2008	REVISED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

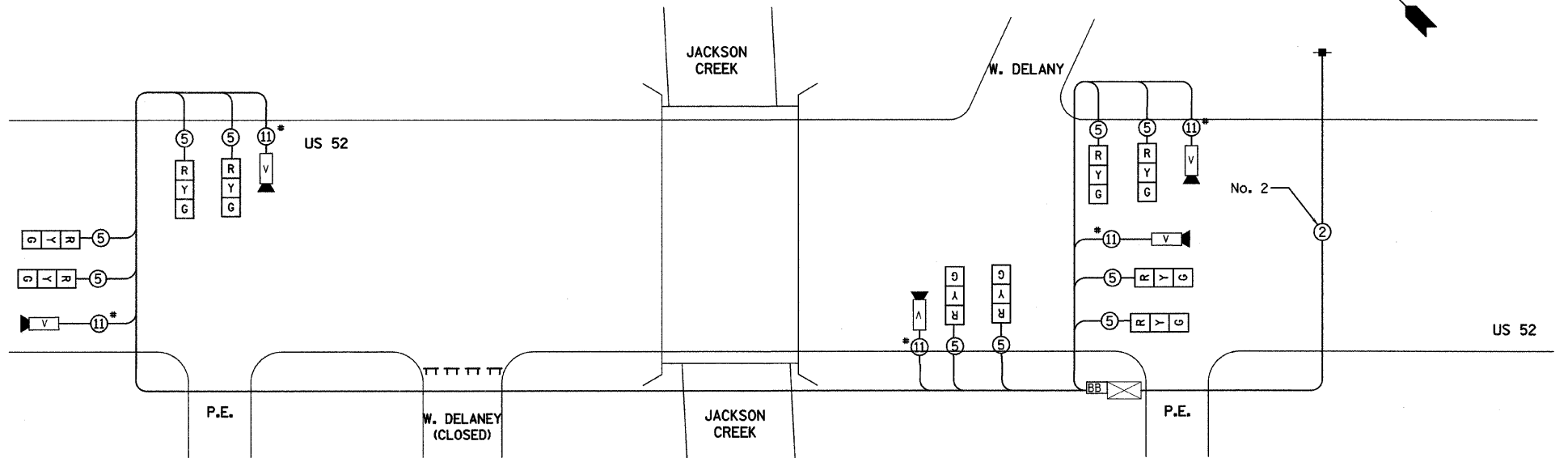
**FAP 852/US ROUTE 52
OVER JACKSON CREEK
TEMPORARY TRAFFIC SIGNAL PLAN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
852	18 B-4-R-1	WILL	27	11
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60DB4	

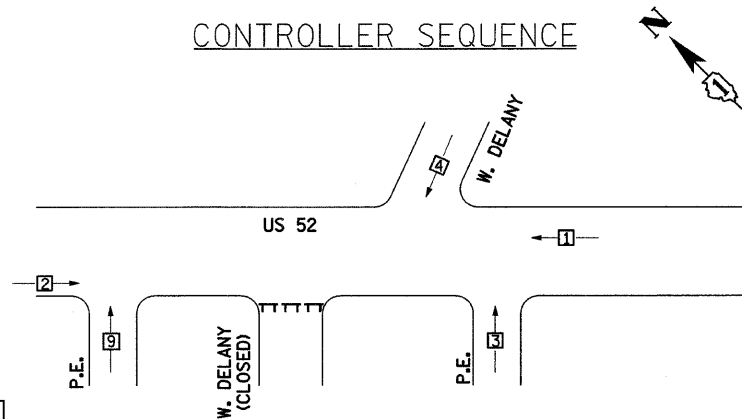
NOTES FOR TEMPORARY TRAFFIC SIGNALS

- 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.
- 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 SIGNAL TURN ON.
- 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.
- ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- 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.
- 24" WHITE STOP BAR TO BE INSTALLED AFTER THE INSTALLATION AND IMPLEMENTATION OF THE TEMPORARY TRAFFIC SIGNALS.
- 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



PHASE DESIGNATION

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

LEGEND

- ◻ SINGLE ENTRY PHASE
- ◊ OVERLAP
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE

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
- ◻ M MICROWAVE VEHICLE SENSOR
- ◻ V VIDEO DETECTOR SENSOR
- ◻ C CLOSED CIRCUIT TV
- ◻ BB BATTERY - BACK UP
- ◻ T TELEPHONE CONNECTION

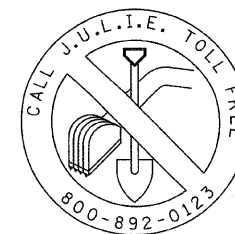
NOTE:

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.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE (INCAND.)	WATTAGE LED	% OPERATION	
SIGNAL (RED)	10	135	17	0.50	85
(YELLOW)	10	135	25	0.25	62.5
(GREEN)	10	135	15	0.25	37.5
ARROW		135	12	0.10	
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
VIDEO CAMERA	5		45	1.00	225
TOTAL =					410

ENERGY COSTS TO: TOTAL = 410
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTER COURT
 SCHAMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY CONTACT: KATHY NYSTROM
 PHONE: (847) 816-5489
 COMPANY: COM. ED.

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	ALL FOUNDATIONS	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	MAST ARM (L) POLE	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	20'-H-2=	
E - M. ARM POLE		SIGNAL POST	2 (1.0)	6m+L-0.6m=	
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)



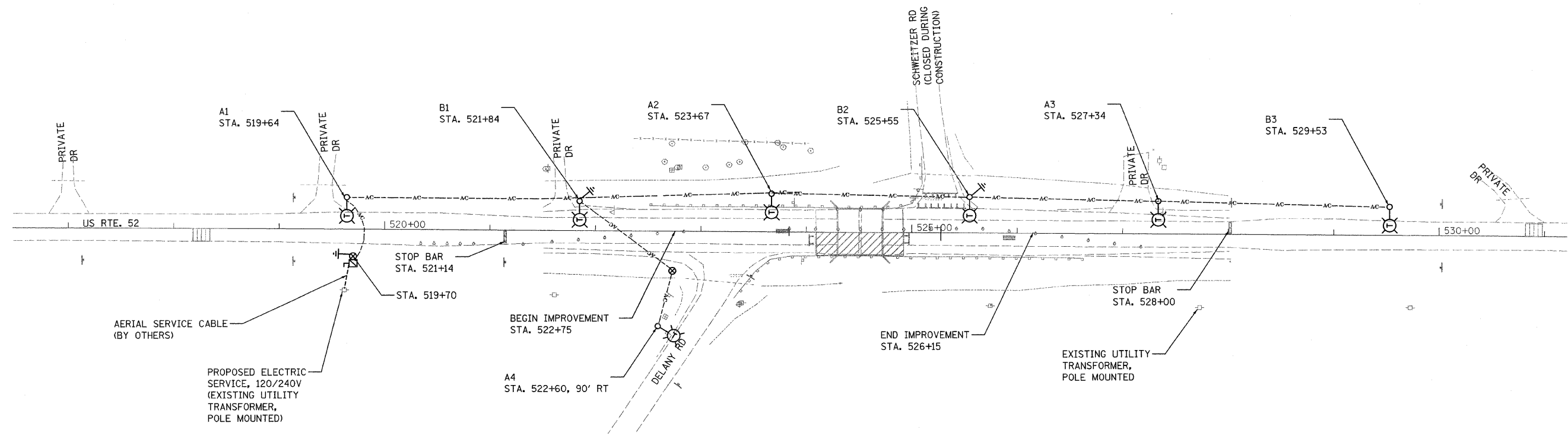
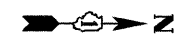
Ciorba Group, Inc.
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





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PLOT DATE = 1/13/2009	CHECKED - MJL	REVISIONS -
	DATE - 05/15/2008	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 852 / US ROUTE 52
US ROUTE 52 OVER JACKSON CREEK
TEMPORARY CABLE PLAN & TEMPORARY PHASE DESIGNATION DIAGRAM
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

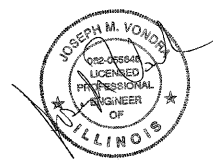
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
852	18 B-4-R-1	WILL	27	12
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60D84	



-  TEMPORARY LIGHTING UNIT
50 FT. MOUNTING HEIGHT, 15 FT. MAST ARM
400 WATT, 120 VOLT LUMINAIRE WITH PHOTOCELL
ON EACH LUMINAIRE
-  AERIAL CABLE, 3-1/8 NO. 4, ALUMINUM, WITH MESSENGER WIRE
-  GROUND ROD, 5/8" DIAMETER X 10 FT.
-  ELECTRIC SERVICE DISCONNECT, LIGHTING
AND TRAFFIC SIGNAL
-  EXISTING UTILITY TRANSFORMER, POLE MOUNTED
-  TEMPORARY WOOD POLE, 45 FT, CLASS 5

NOTES

1. TEMPORARY LIGHTING SHALL BE INSTALLED AND OPERATIONAL BEFORE THE START OF CONSTRUCTION.
2. POLE SHALL BE SETBACK 18 FT. FROM THE EDGE OF THE TRAVELLED PAVEMENT, UNLESS OTHERWISE REQUIRED BY THE FIELD CONDITIONS.
3. 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.



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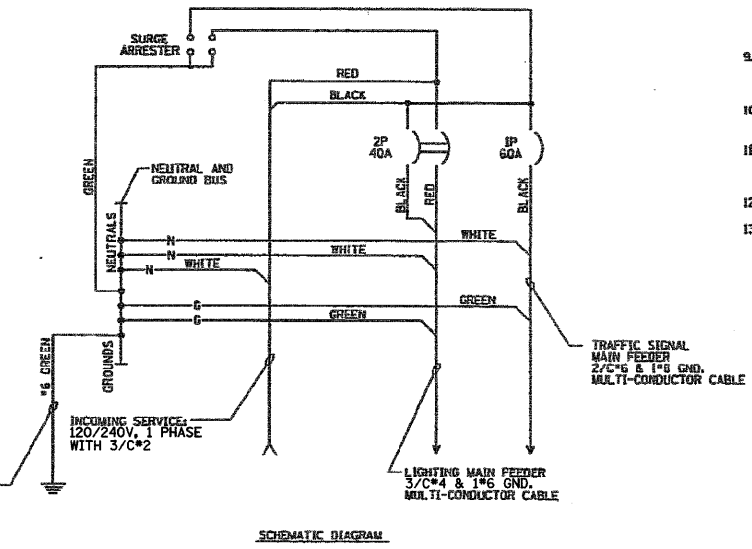
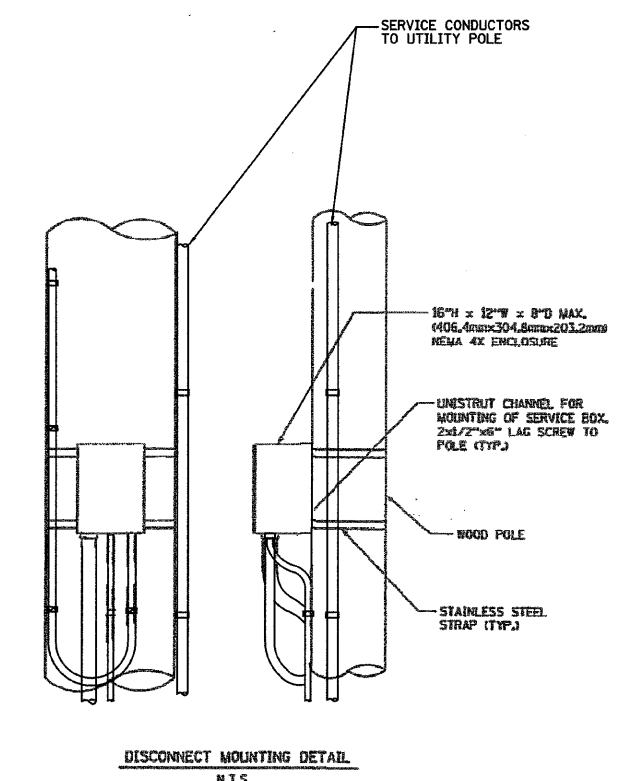
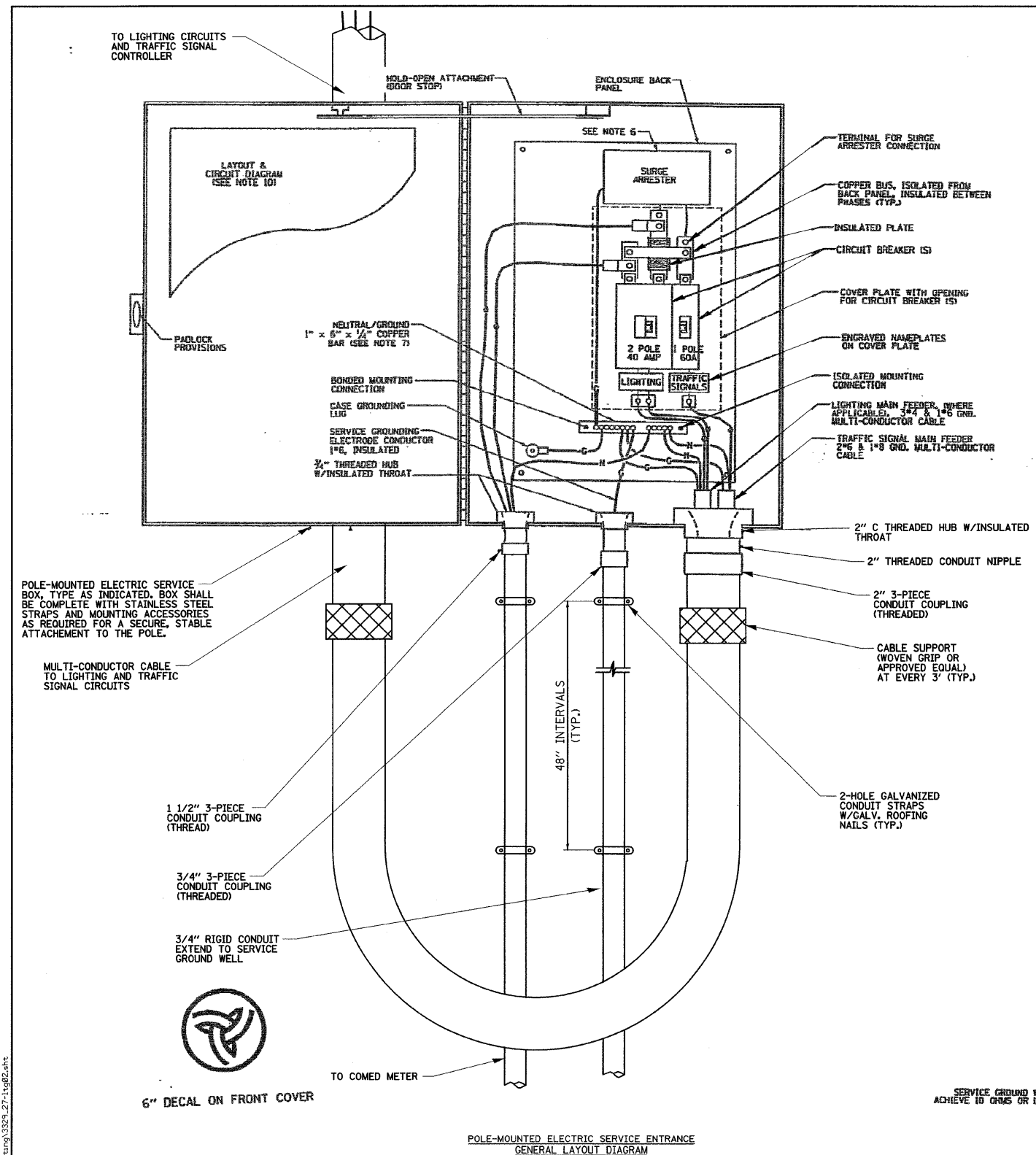
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PLOT DATE = 1/13/2009	DATE - 05/15/2008	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 852 /US ROUTE 52
OVER JACKSON CREEK
TEMPORARY LIGHTING PLAN**

SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 852	SECTION 18 B-4-R-1	COUNTY WILL	TOTAL SHEETS 27	SHEET NO. 13
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 60D84	



- NOTES:**
- ELECTRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED OR DESIGNATED BY THE ENGINEER, AND SERVICE DROP CABLE SHALL BE COMPATIBLE WITH THE SERVICE ACCORDINGLY. SOME INSTALLATIONS MAY CALL FOR SERVICE ENTRANCE EQUIPMENT SUITABLE FOR 3-WIRE SERVICE EVEN THOUGH INITIALLY WIRED FOR 2-WIRE SERVICE.
 - THE POLE-MOUNTED ELECTRIC SERVICE BOX DETAIL DEPICTS THE BASIC CONSTRUCTION OF THE EQUIPMENT. SLIGHT MODIFICATIONS APPLY FOR DIFFERING SERVICES AND APPLICATIONS AS FOLLOWS:
 - TYPE A FULLY EQUIPPED FOR 240/120V, 3W SERVICE, COMPLETE WITH LIGHTING MAIN BREAKER
 - TYPE A1 FULLY EQUIPPED FOR 240/120V, 2W SERVICE, BLANK COVER IN LIEU OF LIGHTING MAIN BREAKER
 - TYPE B EQUIPPED FOR 120V, SERVICE, COMPLETE WITH 1P, 60A, TRAFFIC SIGNALS MAIN BREAKER
 - TYPE B1 EQUIPPED FOR 120V, SERVICE, COMPLETE WITH 1P, 40A, TRAFFIC SURVEILLANCE MAIN BREAKER
 - THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE AS LISTED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.
 - THE ELECTRIC SERVICE EQUIPMENT ENCLOSURE SHALL BE NEMA 4X STAINLESS STEEL, NOMINALLY 12" W X 16" H X 8" D, WITH A HINGED DOOR, STEEL BACK PANEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS AND DOOR STOP, HOFFMAN CATALOG NO. A-16H20R55GLP/A-16 P12/A-DSTOP/C-PMK12, OR APPROVED EQUAL.
 - CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 240 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.
 - THE SURGE PROTECTOR SHALL BE SUITABLE FOR 240/120 VOLT SINGLE PHASE 60HZ AC ELECTRICAL SERVICE, WITH A SURGE ENERGY CAPABILITY OF 2160 JOULES OR BETTER AT 8/20 MICRO-SECONDS, RATED -40 TO 60 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE AS LISTED PER UL 1449, CUTLER-HAMMER CMQV230L06XST OR APPROVED EQUAL.
 - BUS BARS, CONNECTORS, AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED, AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS, OR THE ASSEMBLY SHALL BE A MANUFACTURED SPECIALTY PANELBOARD, CUTLER-HAMMER PRL2A OR APPROVED EQUAL.
 - THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE. THE SERVICE NEUTRAL AND SERVICE GROUNDING ELECTRODE CONDUCTOR SHALL BE TERMINATED ADJACENT TO EACH OTHER AT THE DIVIDE BETWEEN THE SECTIONS AND WIRING SHALL BE TERMINATED ONLY UPON THE APPROPRIATE SECTION.
 - THE WIRING TERMINALS, INCLUDING THE GROUND/NEUTRAL BAR SHALL BE ARRANGED TO PROVIDE ADEQUATE ROOM FOR PERFORMING FIELD TERMINATIONS.
 - A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE MECHANICALLY SECURED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
 - A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN BREAKER.
 - LUGS AND CONNECTORS SHALL BE RATED FOR 75°C CONDUCTOR.
 - THE EXACT MOUNTING HEIGHT OF THE BOX SHALL BE FIELD DETERMINED TO AVOID OBSTRUCTIONS AND PUBLIC ACCESS. TYPICAL HEIGHT SHALL BE APPROXIMATELY 10 FEET ABOVE GRADE.

FILE NAME: c:\p\proj\33291\33291_27\Drawings\lighting\33291_27-15g02.dwg

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USER NAME = wlancaster	DESIGNED - JMV	REVISED -
PLOT SCALE = 1:8201 / 1" IN.	DRAWN - MB	REVISED -
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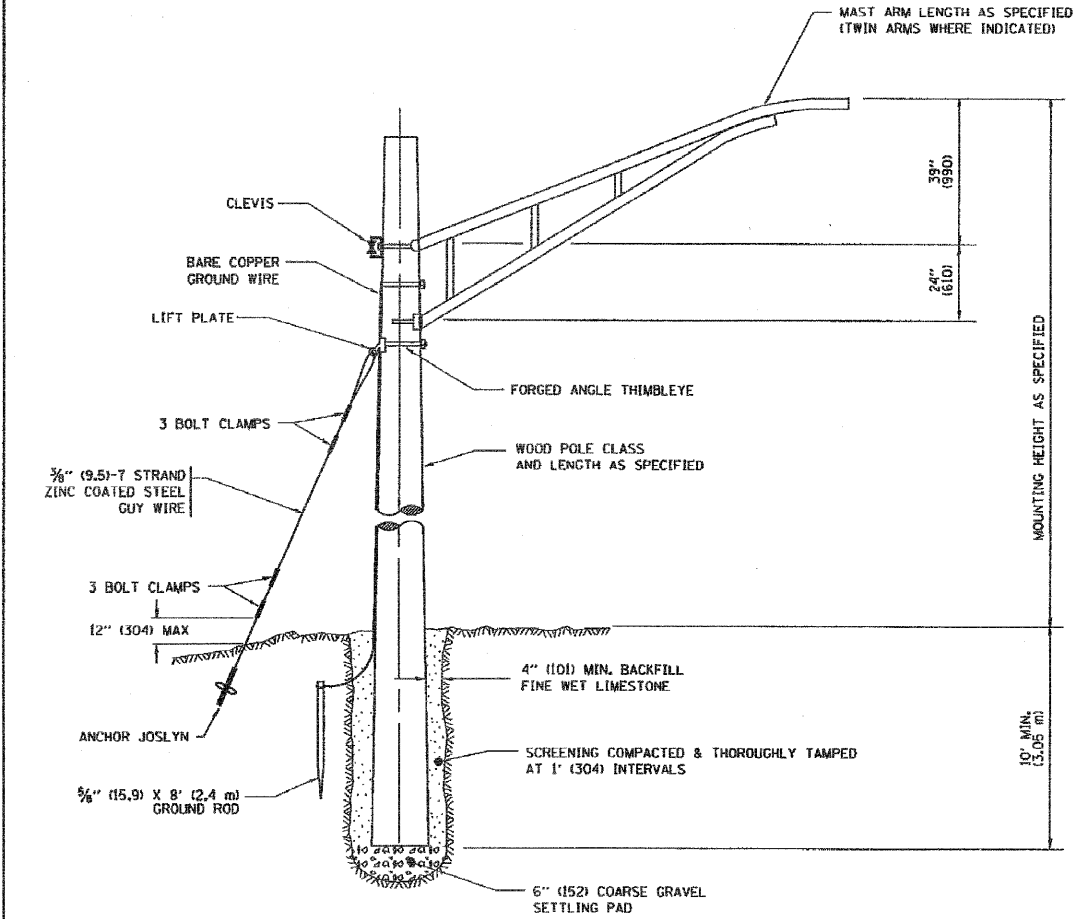
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 852 / ILLINOIS ROUTE 52 OVER JACKSON CREEK
ELECTRIC SERVICE DISCONNECT,
LIGHTING AND TRAFFIC SIGNAL

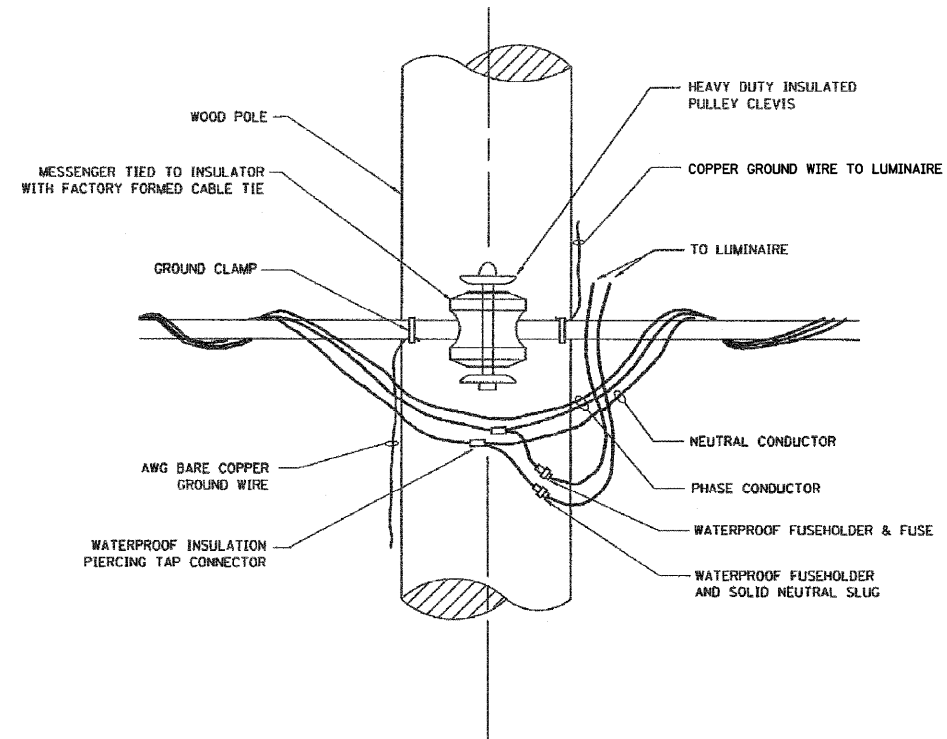
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852	18 B-4-R-1	WILL	27	14
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 60D84	



CONTRACT NO.				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
852	18 B-4-R-1	WILL	27	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



TEMPORARY LIGHT POLE DETAIL



TEMPORARY LIGHT POLE ATTACHMENT DETAIL

NOTES:
1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
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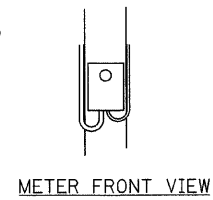
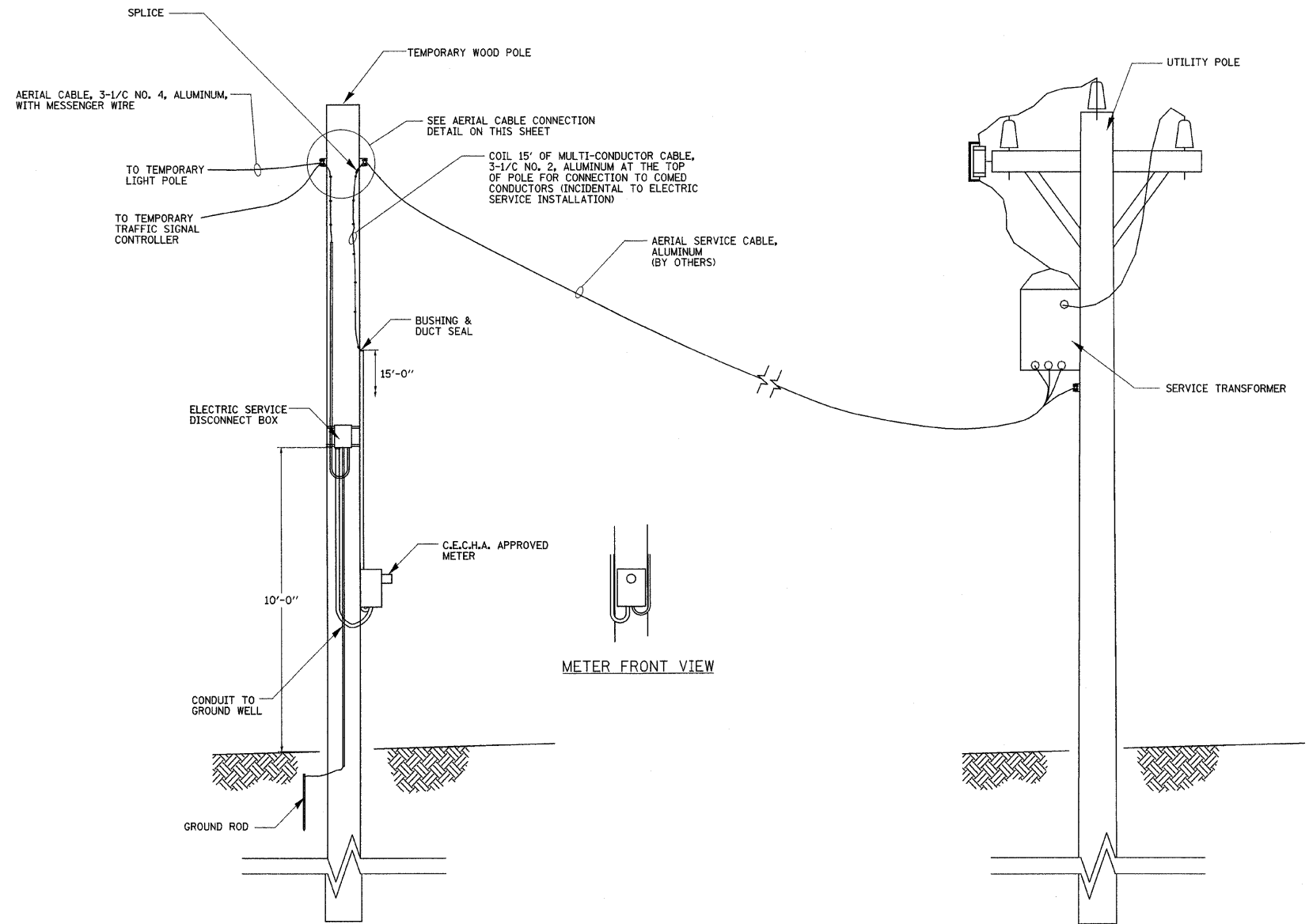
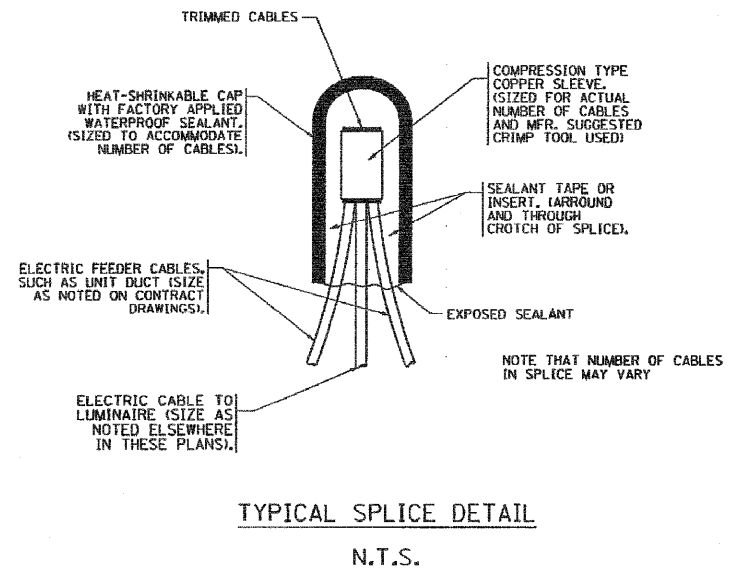
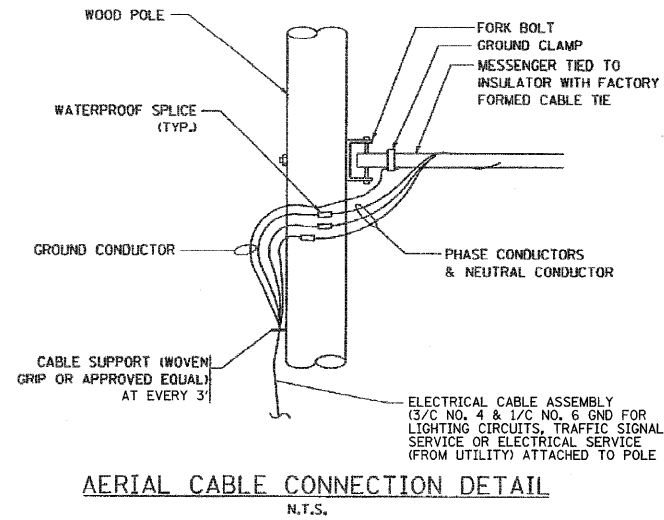
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PLOT DATE = 1/13/2009	DATE - 05/15/2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
852	18 B-4-R-1	WILL	27	15
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 60D84		



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



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Ciorba Group, Inc.
CONSULTING ENGINEERS
6507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60658
Tel: 773.775.4009 Fax: 773.775.4014

USER NAME = wlancaaster	DESIGNED - JMV	REVISED -
PLOT SCALE = 1:8201' / IN.	DRAWN - MB	REVISED -
PLOT DATE = 1/13/2009	CHECKED - JMV	REVISED -
	DATE - 05/15/2008	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 852 / ILLINOIS ROUTE 52
OVER JACKSON CREEK
TEMPORARY LIGHTING DETAILS

SCALE: NONE	SHEET NO.	OF SHEETS	STA.	TO STA.
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F.A.P. RTE. 852	SECTION 18 B-4-R-1	COUNTY WILL	TOTAL SHEETS 27	SHEET NO. 16
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		

CONTRACT NO. 60DB4

Benchmark: Chiseled "□" N-E Wingwall 23.5' RT. Sta. 524+29. Elev. 651.63

Existing Structure: SN 039-0128 built in 1928 and widened in 1980 as a 2 span continuous R.C. slab. The structure measures 44'-0" Bk. to Bk. Abutments and 44'-6" 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.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATERWAY INFORMATION

Drainage Area = 4,960 Acres		Low Grade Elev. = 652.35		AT Sta. 524+00				
Flood	Freq. Yr.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
		Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	214	214	649.63	0.9	0.9	650.53	650.53
Base	100	218	218	649.73	1.1	1.1	650.83	650.83
Overtopping								
Max. Calc.	500	1416	230	230	650.03	1.65	1.65	651.73

Information taken from 1980 plans and adjusted to project datum.

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 See Special Provisions.

Reinforcement Bars designated (E) shall be epoxy coated.

SCOPE OF WORK

1. Remove existing HMA wearing surface
2. Hydroscarify slab surface
3. Concrete Repairs (west edge and east curb)
4. Clean and paint exposed rebars
5. Full depth slab repairs
6. Place Concrete Overlay
7. Sawcut Groove Deck Surface
8. R&R Wearing surface both approaches (See Roadway Drawings)

INDEX OF SHEETS

- S1. General Plan & Elevation
- S2. Stage Construction Details
- S3. Temporary Concrete Barrier
- S4. Superstructure Repairs I
- S5. Superstructure Repairs II
- S6. Existing Deck Reinforcement

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi

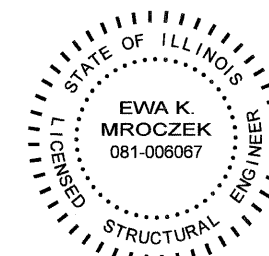
LAST DELAMINATION SURVEY

November 8, 2007

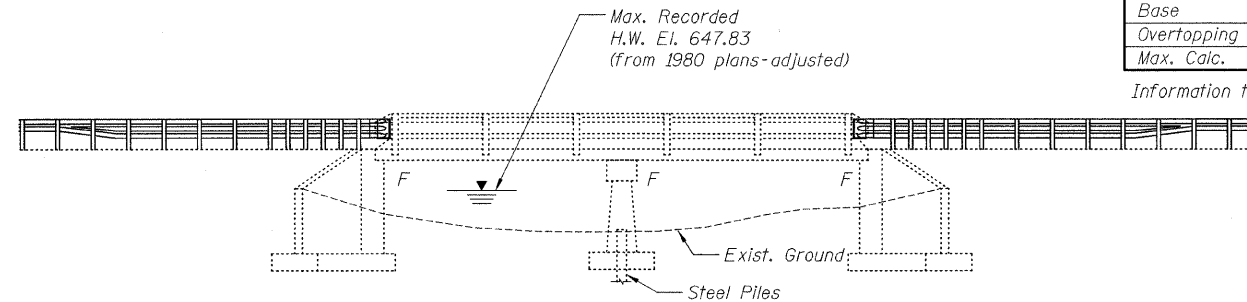
TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
* Hot-Mix Asphalt Surface Removal (Deck)	Sq.Yd.	208
Bridge Deck Grooving	Sq.Yd.	208
Protective Coat	Sq.Yd.	208
* Cleaning and Painting Exposed Rebar	Sq.Ft.	450
* Bridge Deck Latex Concrete Overlay, 2 1/2 inches	Sq.Yd.	208
* Structural Repair of Concrete (Depth Equal to or less than 5 inches)	Sq.Ft.	29
* Bridge Deck Hydro-Scarification 1/2"	Sq.Yd.	208
* Deck Drain Extensions	Each	12
* Deck Slab Repair (Full Depth, Type I)	Sq.Yd.	1.1
* Deck Slab Repair (Full Depth, Type II)	Sq.Yd.	5.1

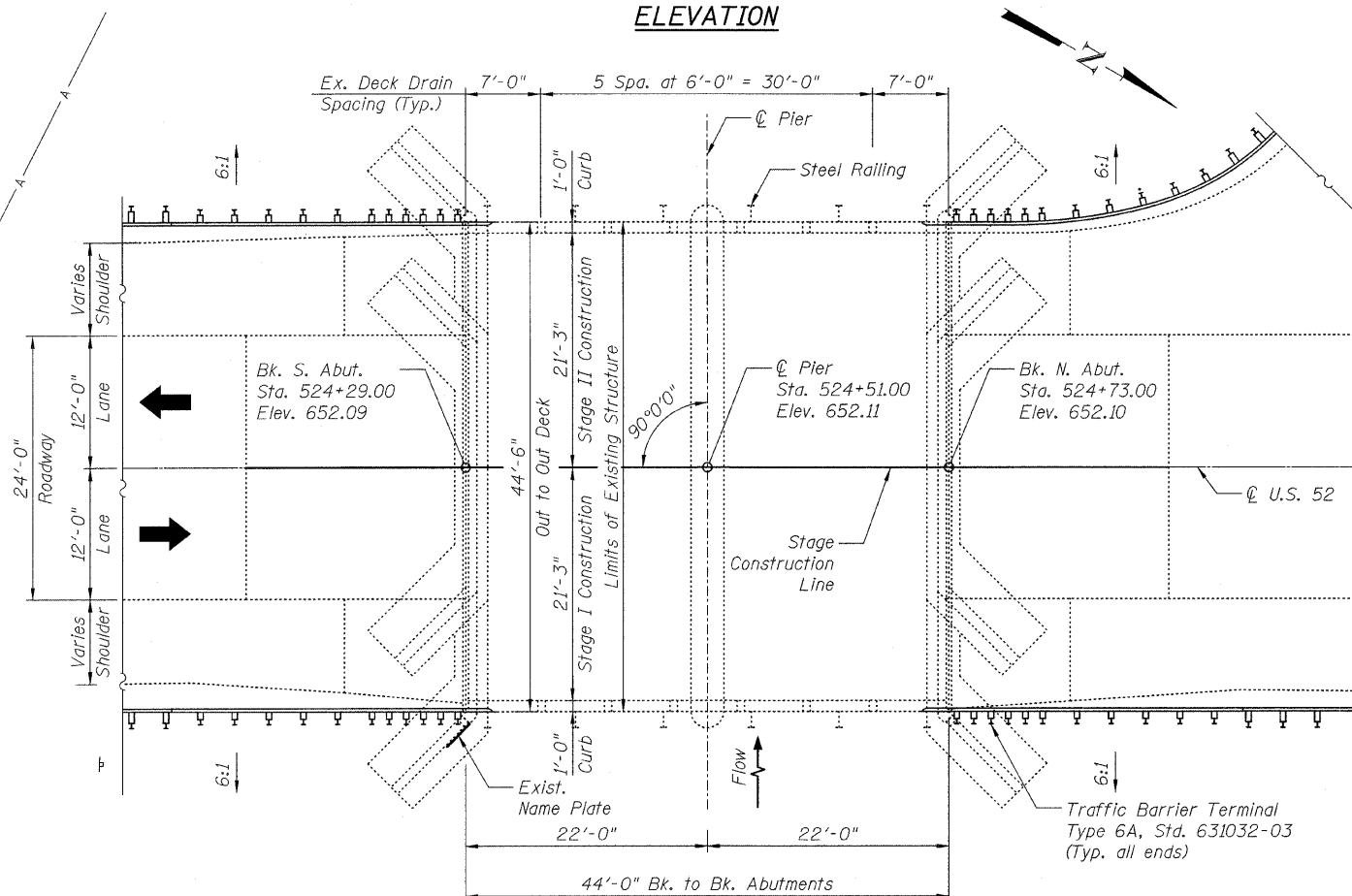
* Special Provision



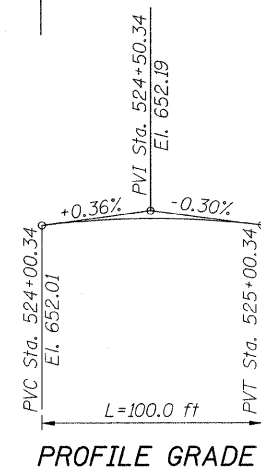
DATE: 1/13/2009
SEAL EXPIRES: 11/30/2010



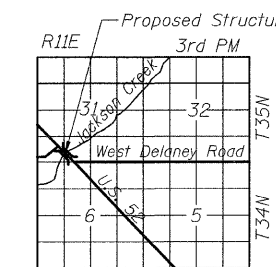
ELEVATION



PLAN



PROFILE GRADE



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
U.S. 52 OVER N. BR. JACKSON CREEK
STA. 524+51.00
S.N. 099-0129

SHEET NO. S1 S6 SHEETS	F.A.P. RTE. 852	SECTION 18 B-4-R-1	COUNTY WILL	TOTAL SHEETS 27	SHEET NO. 17
	CONTRACT NO. 60D84			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

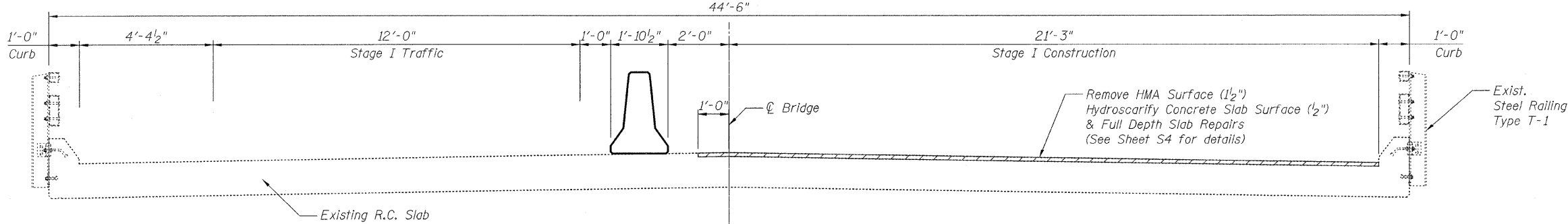
DESIGNED	E. Mroczek
CHECKED	B. Sauter
DRAWN	R. Danley
CHECKED	E. Mroczek

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

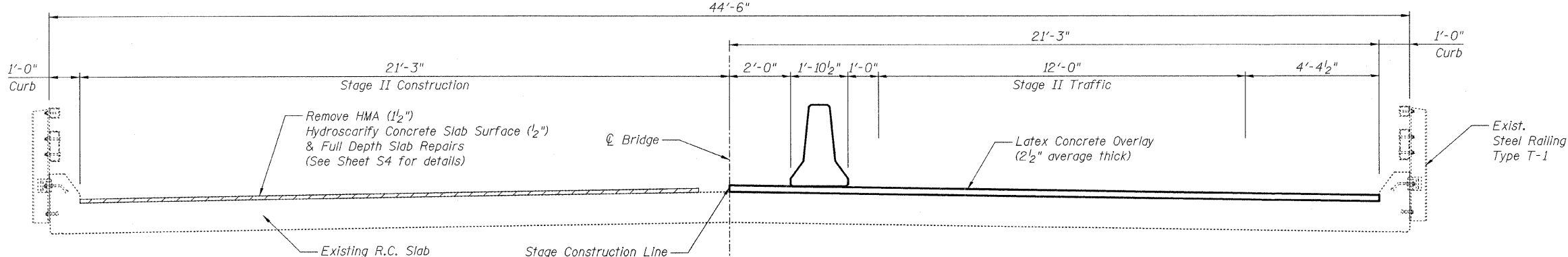
1/13/2009

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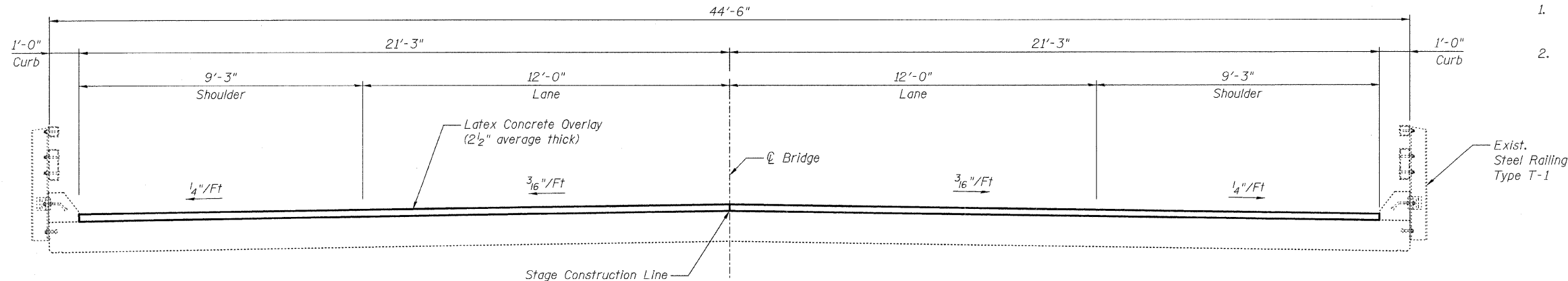
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



STAGE I CONSTRUCTION
(Looking North)



STAGE II CONSTRUCTION
(Looking North)



FINAL
(Looking North)

- NOTE:**
1. See Sheet S3 for Temporary Concrete Barrier Details.
 2. The Contractor is ultimately responsible for means and methods to ensure the complete stability of the structural members during construction.

STAGE CONSTRUCTION DETAILS
U.S. 52 OVER N. BR. JACKSON CREEK
STA. 524+51.00
S.N. 099-0129

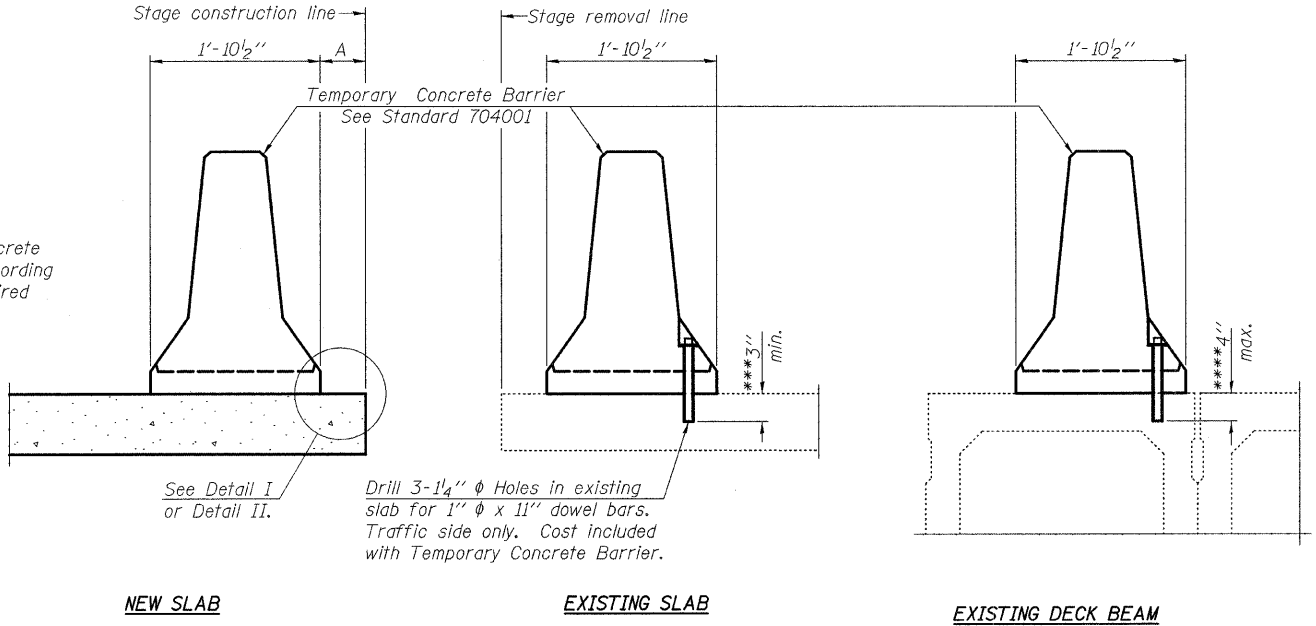
DESIGNED	E. Mroczek
CHECKED	B. Sauter
DRAWN	R. Danley
CHECKED	E. Mroczek

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SHEET NO. S2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	852	18 B-4-R-1	WILL	27	18
S6 SHEETS		CONTRACT NO. 60D84			
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

1/13/2009 r danley m:\proj\3329\3329_27\design\structural\wood\3329_27_02 Stage Construction.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".

NEW SLAB

EXISTING SLAB

EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

NOTES

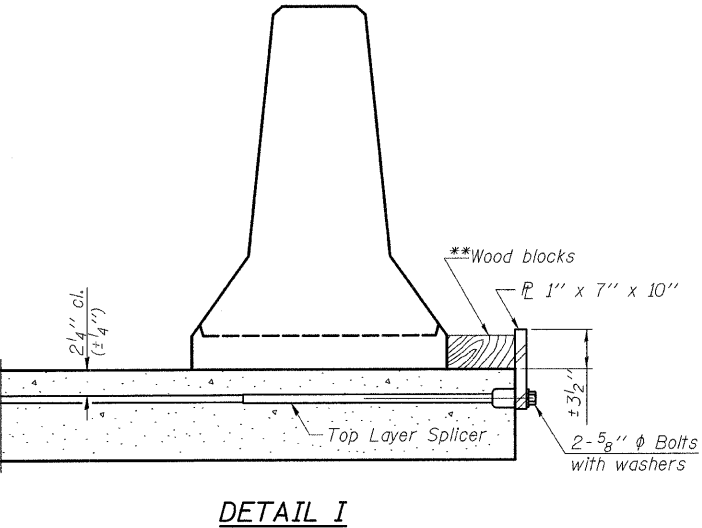
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel \bar{L} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel \bar{L} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

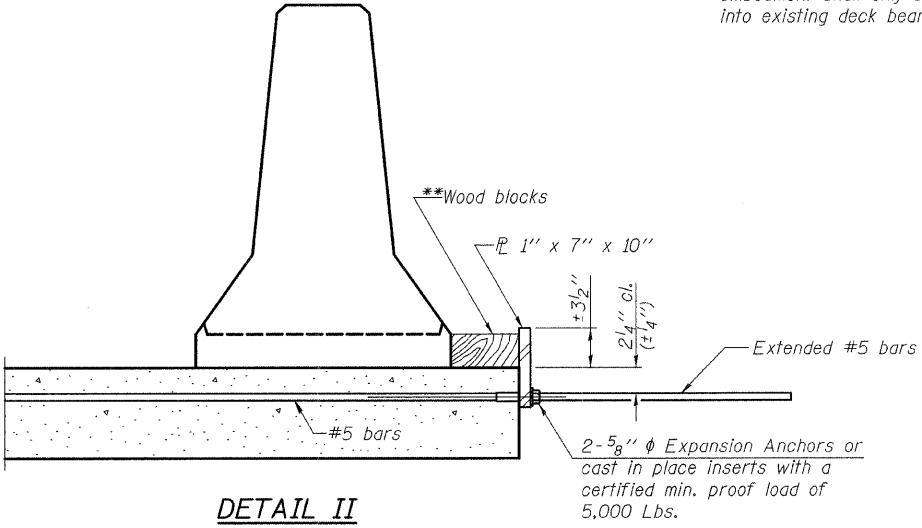
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** 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.

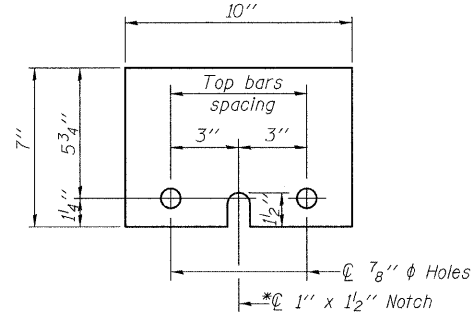
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER \bar{L} 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
FOR STAGE CONSTRUCTION
U.S. 52 OVER N. BR. JACKSON CREEK
STA. 524+51.00
S.N. 099-0129

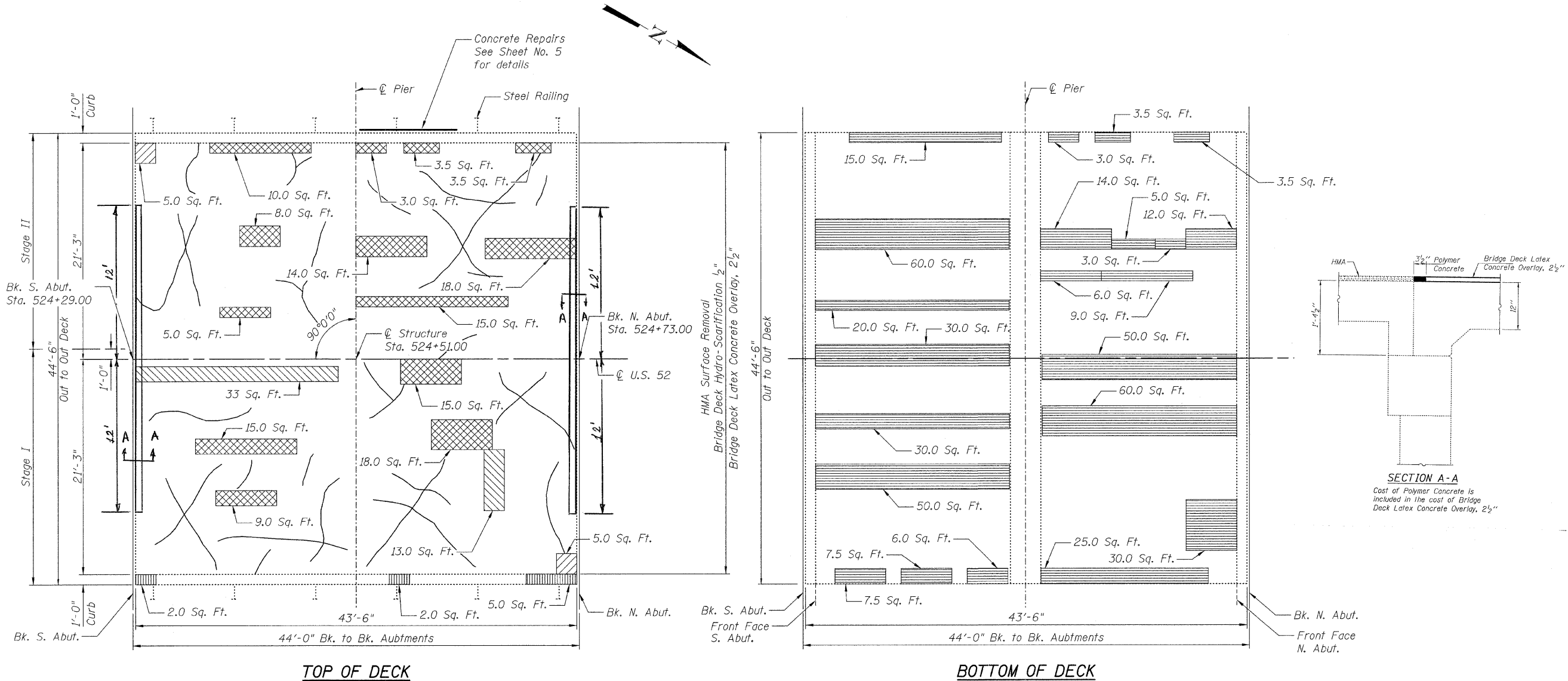
DESIGNED	E. Mroczek
CHECKED	B. Sauter
DRAWN	R. Danley
CHECKED	E. Mroczek

CG **Giorba Group, Inc.**
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SHEET NO. S3	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	852	18 B-4-R-1	WILL	27	19
S6 SHEETS		CONTRACT NO. 60D84			
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

1/13/2009 rdenley nt:\proj\3329\3329_27\design\structure\road\shk\3329_27_03 Temp Barrier.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



LEGEND

- Map Cracking in bituminous overlay (For Information Only)
- ▤ Partial Depth Repair (For Information Only)
- ▥ Full Depth Repair (Type I)
- ▧ Full Depth Repair (Type II)
- ▨ Cleaning and Painting Exposed Rebar
- ▩ Structural Repair of Concrete (Depth Equal to or Less than 5 inches)

NOTES:

1. Repairs shall include but not be limited to the areas shown. The actual areas to be determined by engineer at the time of construction.
2. The engineer shall record the actual deck repair areas in order to document as-built conditions for the future reference.
3. See Sheet S6 for information about the existing deck reinforcement.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1.1
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	5.1
Bridge Deck Hydro-Scarification 1/2"	Sq. Yd.	208
Cleaning and Painting Exposed Rebar	Sq. Ft.	450
Structural Repair of Concrete (Depth Equal to or less than 5 inches)	Sq. Ft.	9
Bridge Deck Latex Concrete Overlay 2 1/2 inches	Sq. Yd.	208
Protective Coat	Sq. Yd.	208

SUPERSTRUCTURE REPAIRS I
U.S. 52 OVER N. BR. JACKSON CREEK
STA. 524+51.00
S.N. 099-0129

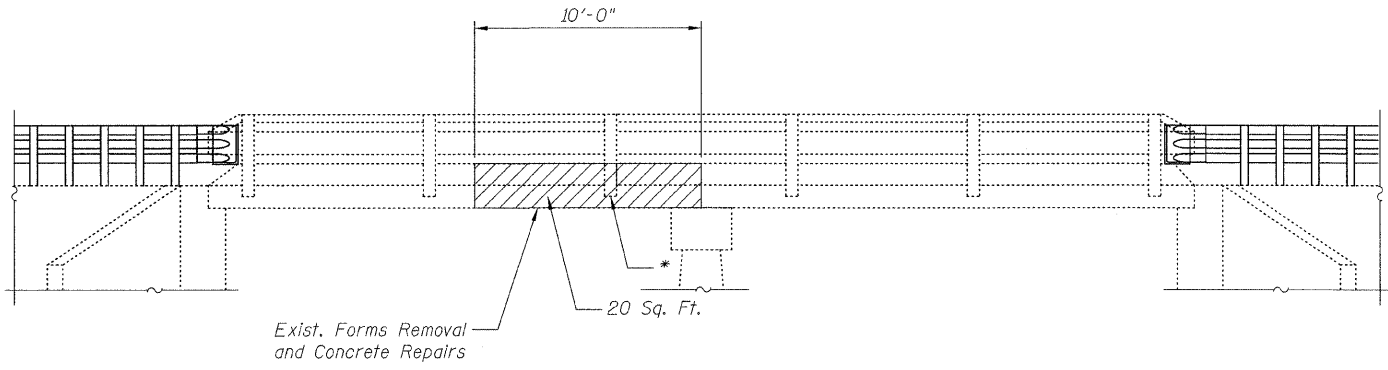
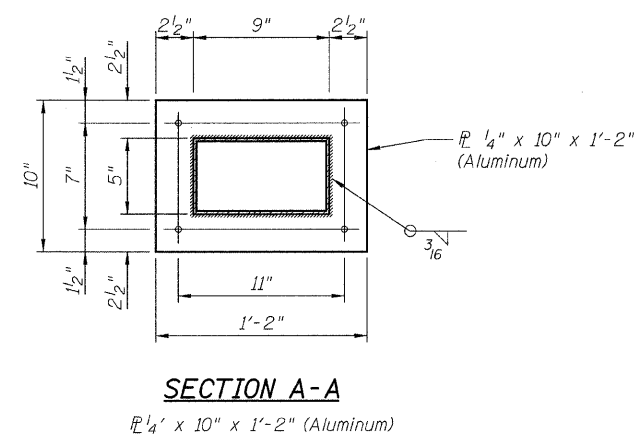
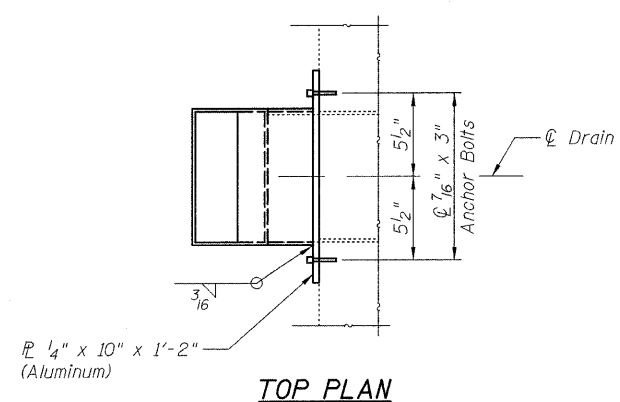
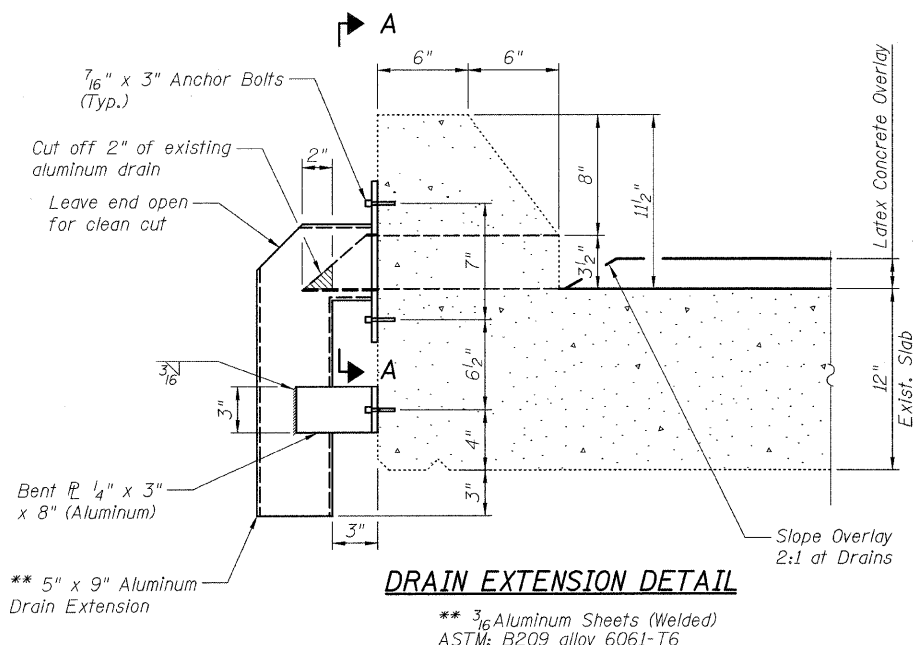
DESIGNED	E. Mroczek
CHECKED	B. Sauter
DRAWN	R. Danley
CHECKED	E. Mroczek

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Tel. 773.775.4009 Fax 773.775.4014 Email chicago@giorba.com

SHEET NO. S4	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	852	18 B-4-R-1	WILL	27	20
S6 SHEETS		CONTRACT NO. 60D84			
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

1/13/2009 rdenley m:\proj\3329\3329_27\design\structure\lead\sh\3329_27_04 Superstructure Detail.sht

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



* - The existing rail post shall be removed during the repairs and the anchor devices shall be reused. The existing steel rail tubing shall remain in place during the work. Cost included with Structural Repair of Concrete.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Deck Drain Extensions	Each	12
Structural Repair of Concrete (Depth Equal to or less than 5 inches)	Sq. Ft.	20

NOTE:
Repairs shall include but not be limited to the areas shown. The actual areas to be determined by engineer at the time of construction.

LEGEND:
Structural Concrete Repairs (Depth equal or less than 5 inches)

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

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SUPERSTRUCTURE REPAIRS II
U.S. 52 OVER N. BR. JACKSON CREEK
STA. 524+51.00
S.N. 099-0129

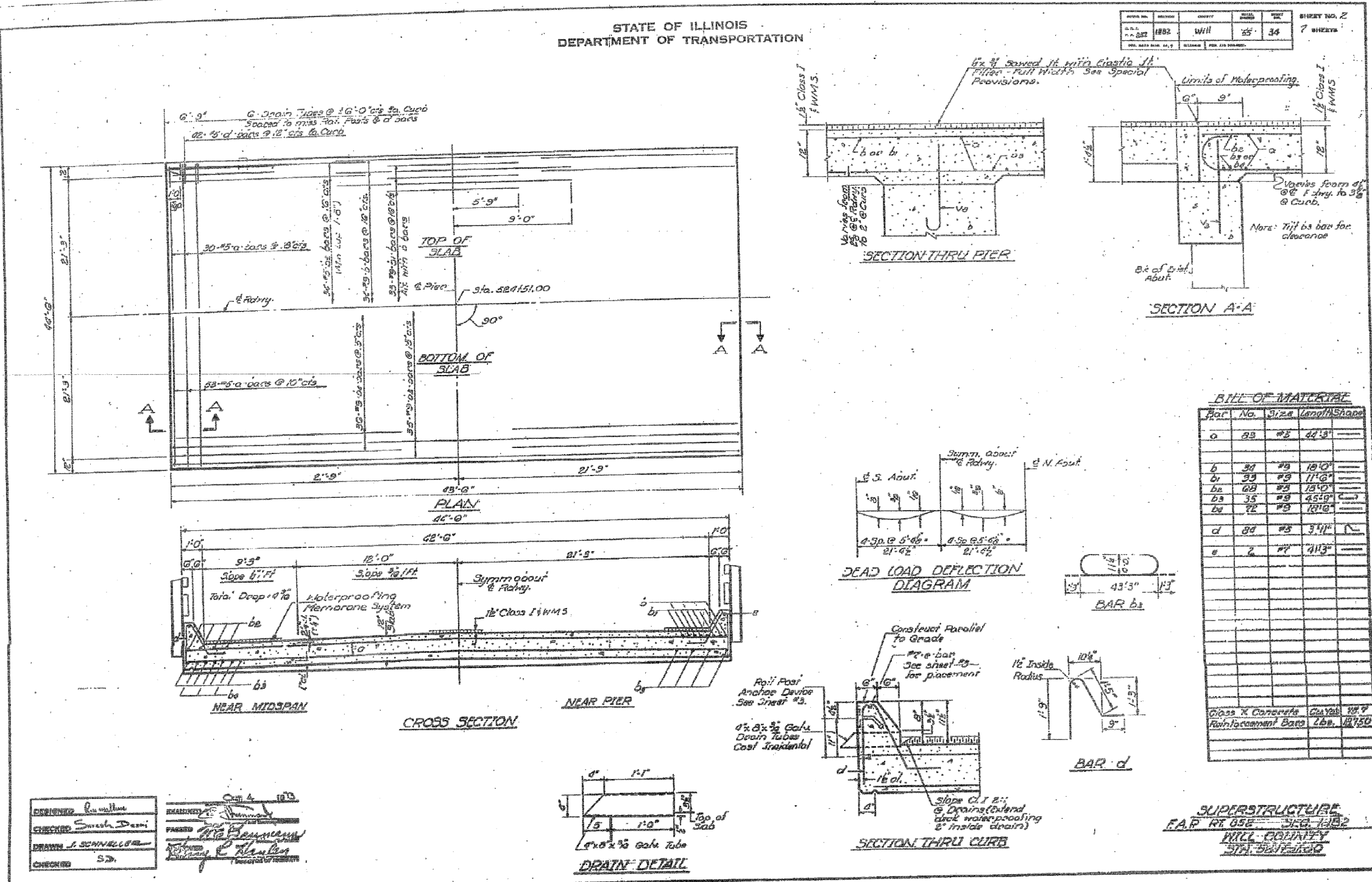
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	852	18 B-4-R-1	WILL	27	21
S6 SHEETS			CONTRACT NO. 60D84		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

1/13/2009 rdanley ms:\proj\3329\3329_27\design\structural\lead\3329_27_05 Superstructure Details.dwg

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	DATE	SHEET NO.	TOTAL SHEETS
1882	Will	25	34	7 SHEETS



BILL OF MATERIAL

Bar No.	Size	Length	Shape
1	#8	44'3"	
2	#8	18'0"	
3	#8	17'6"	
4	#8	18'0"	
5	#8	45'9"	
6	#8	18'0"	
7	#8	3'4"	
8	#8	41'3"	

Class X Concrete Class 1100
Reinforcement Bars Lbs. 14750

SUPERSTRUCTURE
F.A.P. RT. 05E - STA. 524+51.00
WILL COUNTY
S.N. 099-0129

Revised: 1-31-00 JD

EXISTING DECK REINFORCEMENT
U.S. 52 OVER N. BR. JACKSON CREEK
STA. 524+51.00
S.N. 099-0129

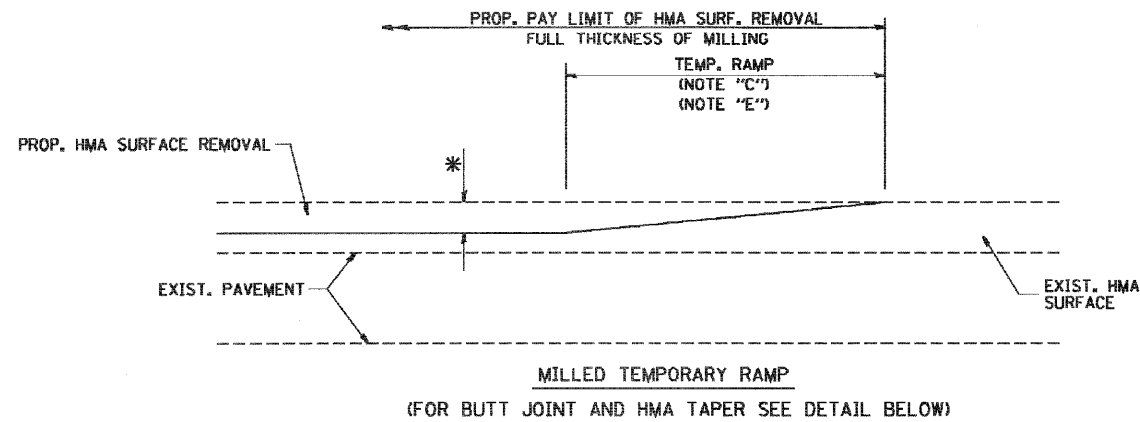
DESIGNED	E. Mroczek
CHECKED	B. Sauter
DRAWN	R. Danley
CHECKED	E. Mroczek

Giorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60655
Tel. 773.775.4009 Fax 773.775.4014 Email chicago@giorba.com

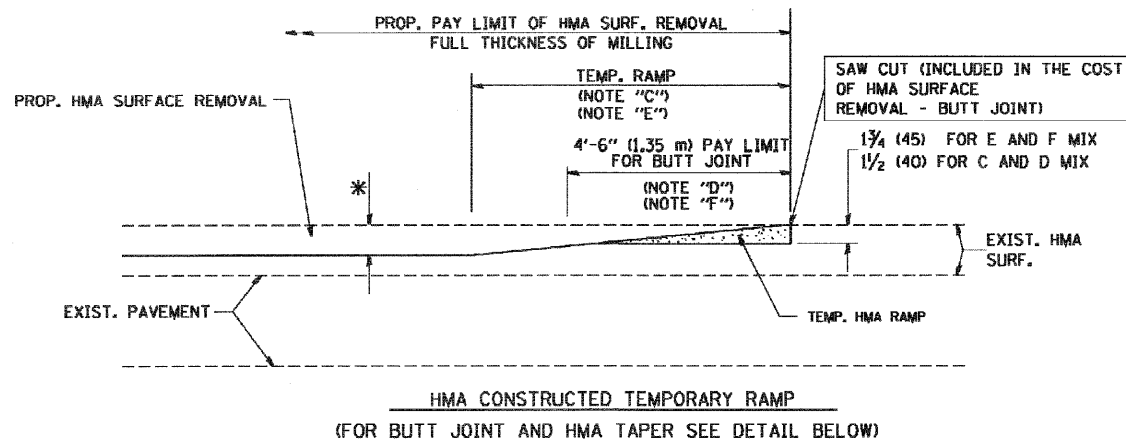
FOR INFORMATION ONLY

SHEET NO. S6	F.A.P. RTE. 852	SECTION 18 B-4-R-1	COUNTY WILL	TOTAL SHEETS 27	SHEET NO. 22
S6 SHEETS	CONTRACT NO. 60D84		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

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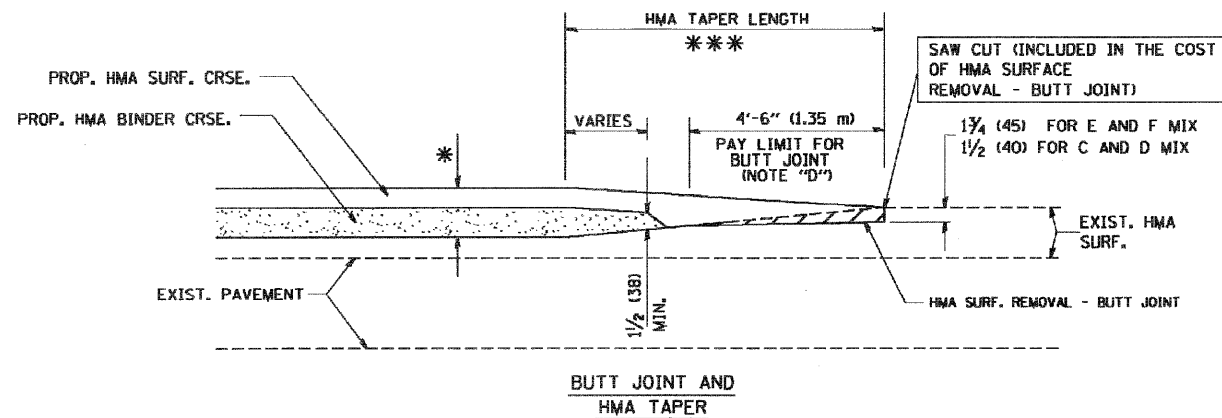


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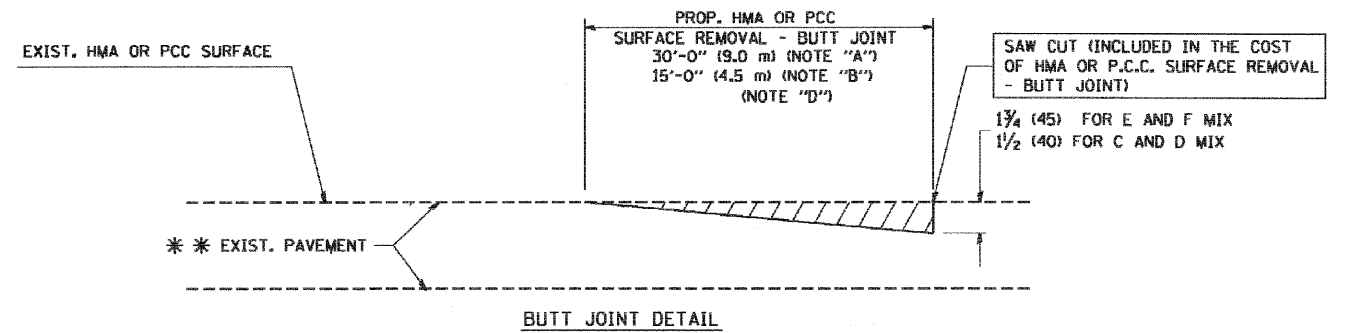


OPTION 2

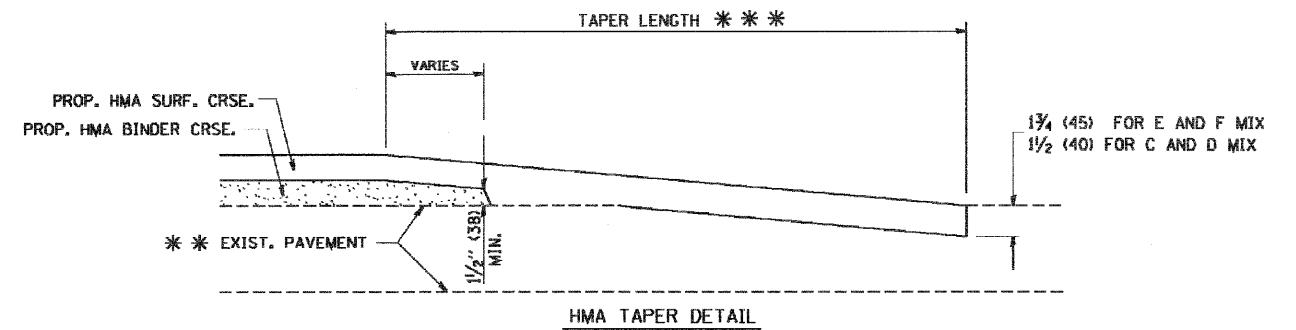
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- ** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

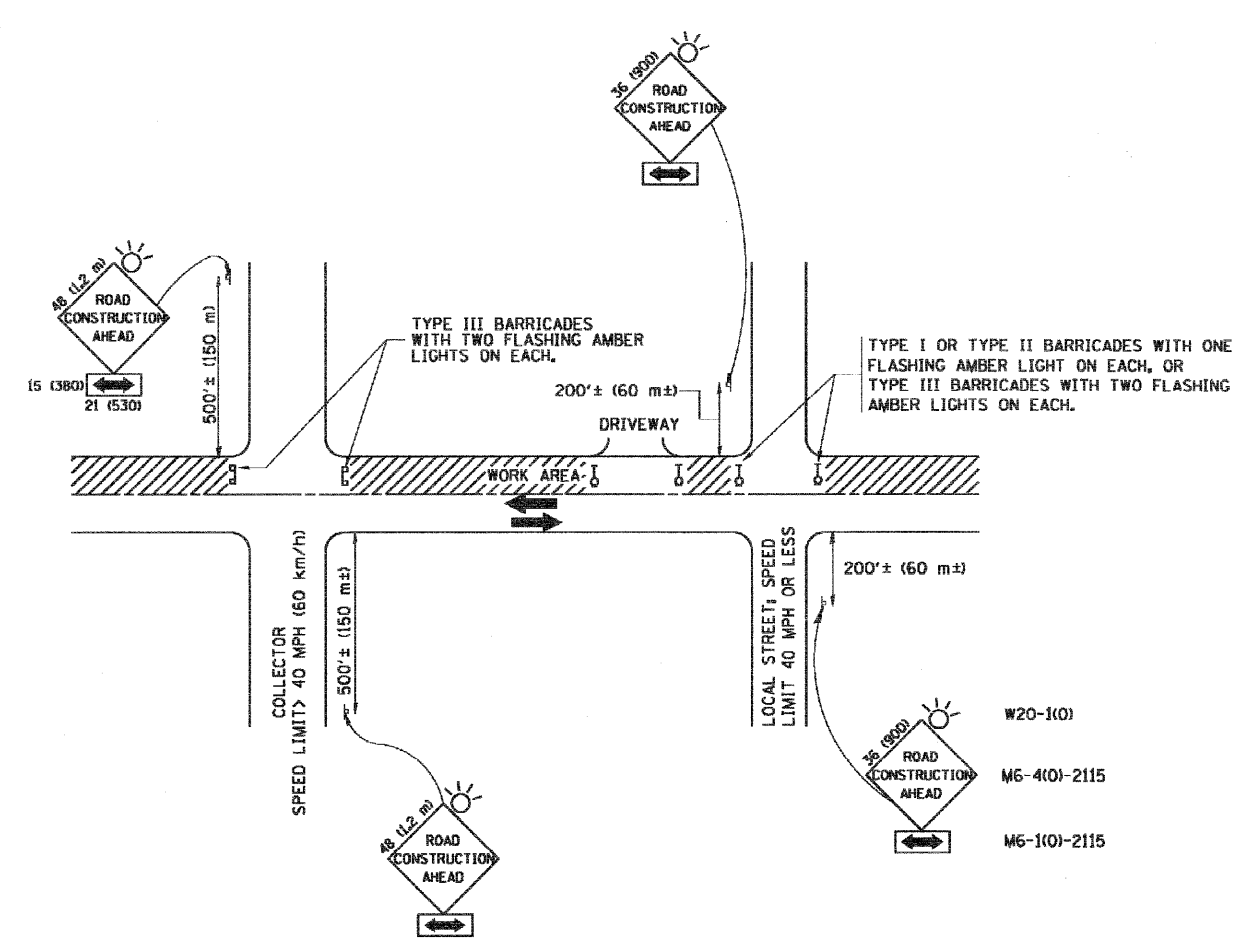
THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

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

FILE NAME =	USER NAME = goglionobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
W:\hstetd\22x34\bd32.dgn		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 5/8" = 1' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2000	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINT AND HMA TAPER DETAILS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	852	18 B-4-R-1	WILL	27	23
		BD400-05 BD32		CONTRACT NO. 60084		
		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS**
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:**
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.**
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.**

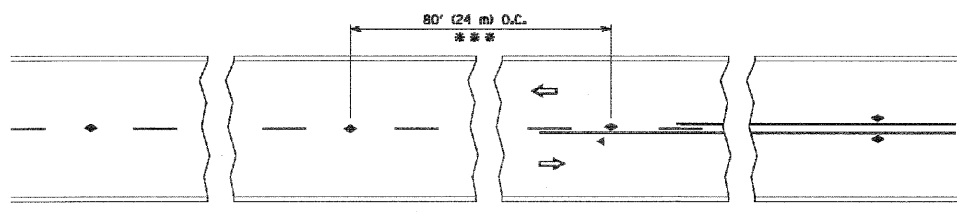
All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME =	USER NAME = goglionobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
W:\hstetd\22x34\vol8.dgn		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 5/8" = 1' IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2000	DATE - 06-89	REVISED - T. RANMACHER 01-06-00

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

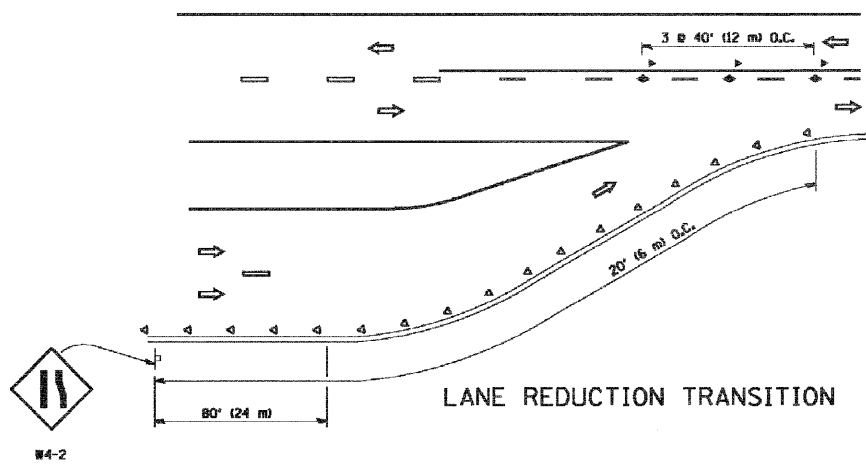
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
852	18 B-4-R-1	WILL	27	24
TC-10			CONTRACT NO. 60084	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

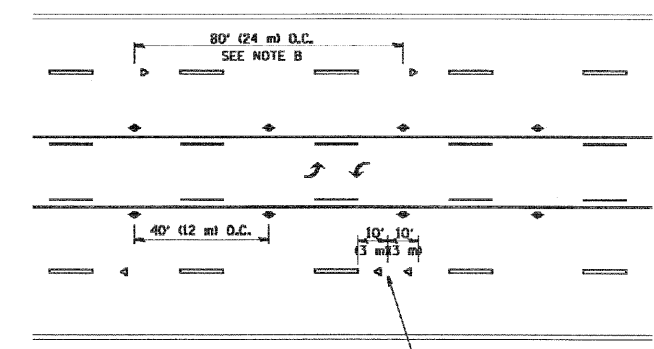


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

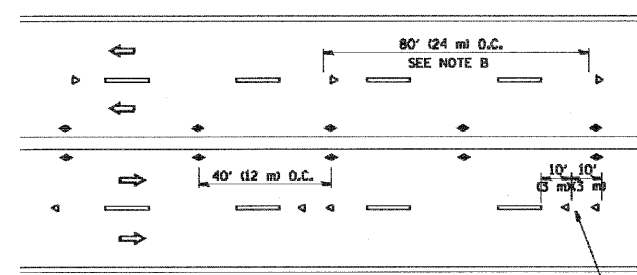
TWO-LANE/TWO-WAY



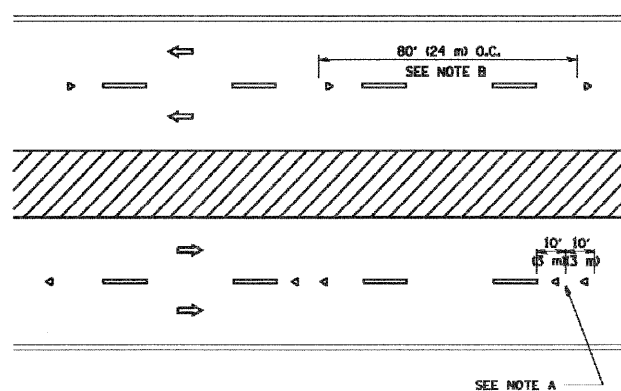
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

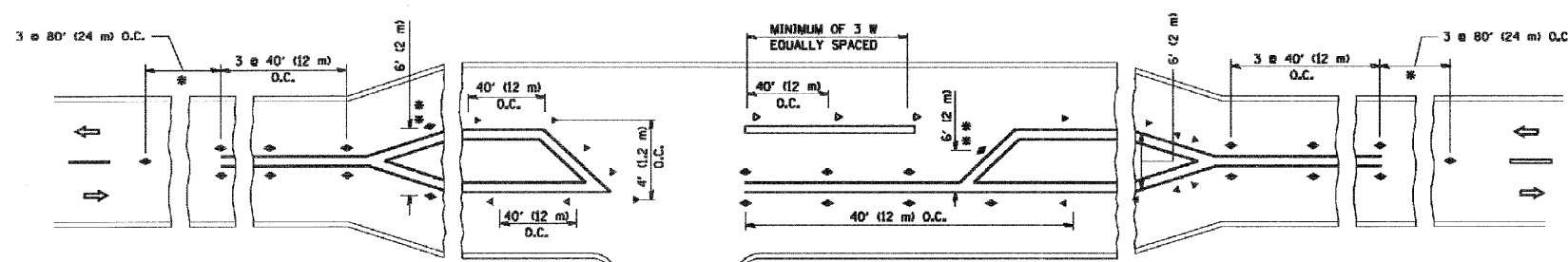
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◄ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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

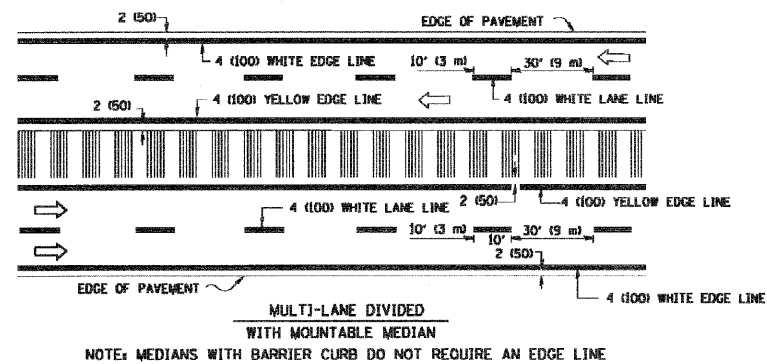
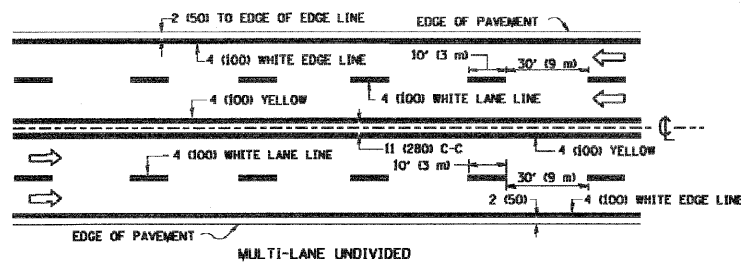
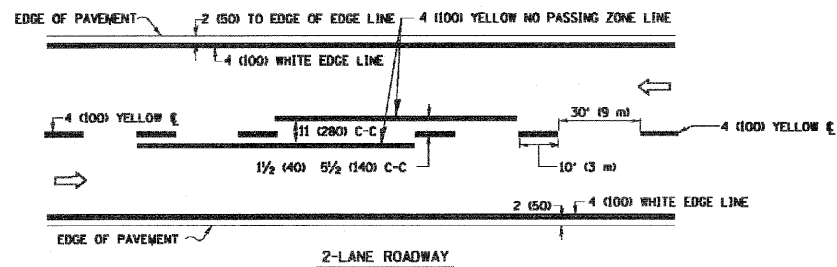


LEFT TURN

SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

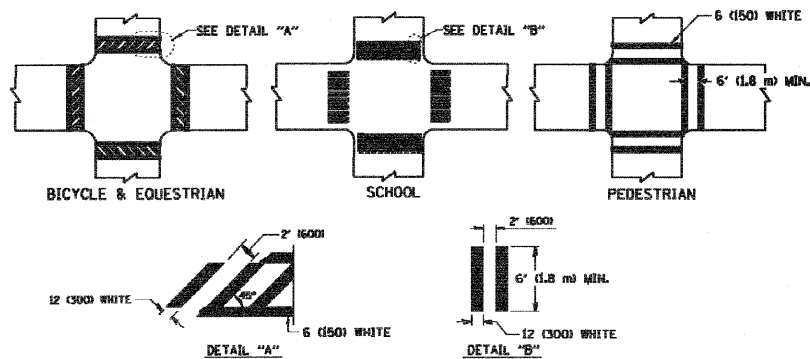
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = W:\dotstsd\22x34\1\1.dgn	USER NAME = goglianobt	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS		F.A.P. RTE. 852	SECTION 18 B-4-R-1	COUNTY WILL	TOTAL SHEETS 27	SHEET NO. 25
		DRAWN -	REVISED - T. RAMMACHER 03-12-99		RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)		TC-11		CONTRACT NO. 60D84		
		CHECKED -	REVISED - T. RAMMACHER 01-06-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT	
		DATE -	REVISED -								

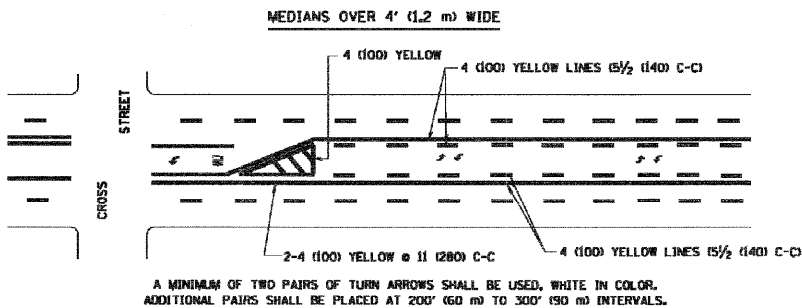
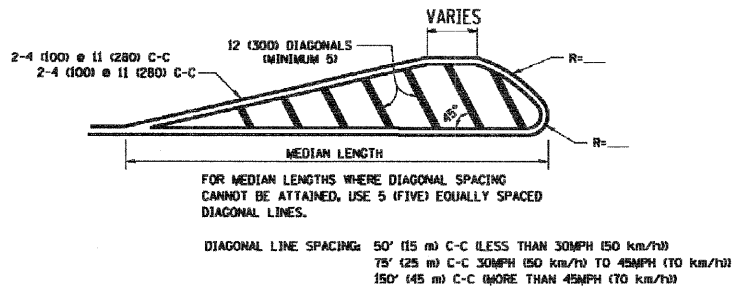
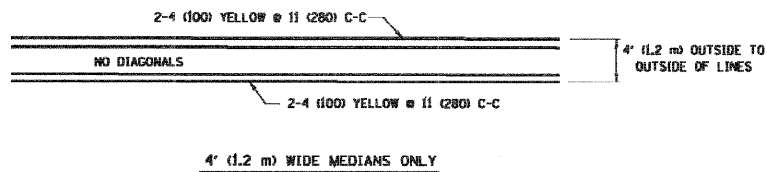


TYPICAL LANE AND EDGE LINE MARKING

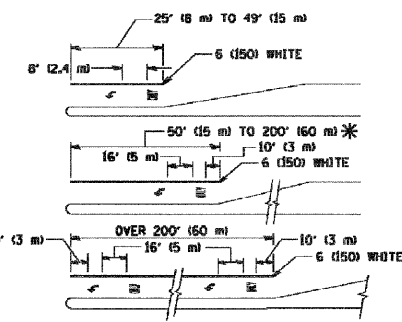
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE



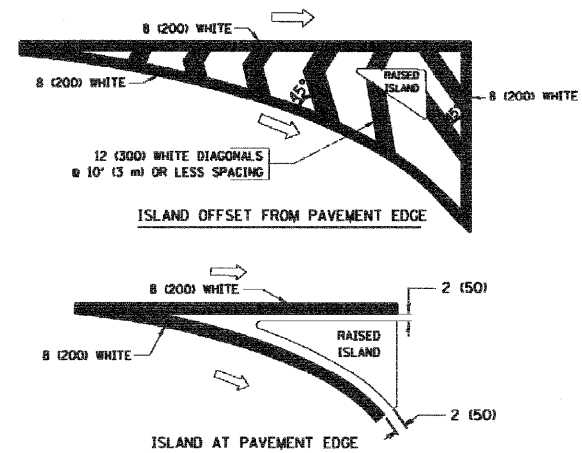
TYPICAL CROSSWALK MARKING



TYPICAL PAINTED MEDIAN MARKING



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 UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION	4 (100)	SOLID	YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE
FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100)	SKIP-DASH	WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
FOR ONE DIRECTION	5 (125) ON FREEWAYS	SKIP-DASH	WHITE	
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) LINES; FULL SIZE LETTERS & SYMBOLS 18" (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; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8" (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL))	2 @ 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 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°	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	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" 15 6" (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 78000 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=84.0 SQ. FT. (7.8 m ²)
SHOULDER DIAGONALS	12 (300) @ 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 78000.

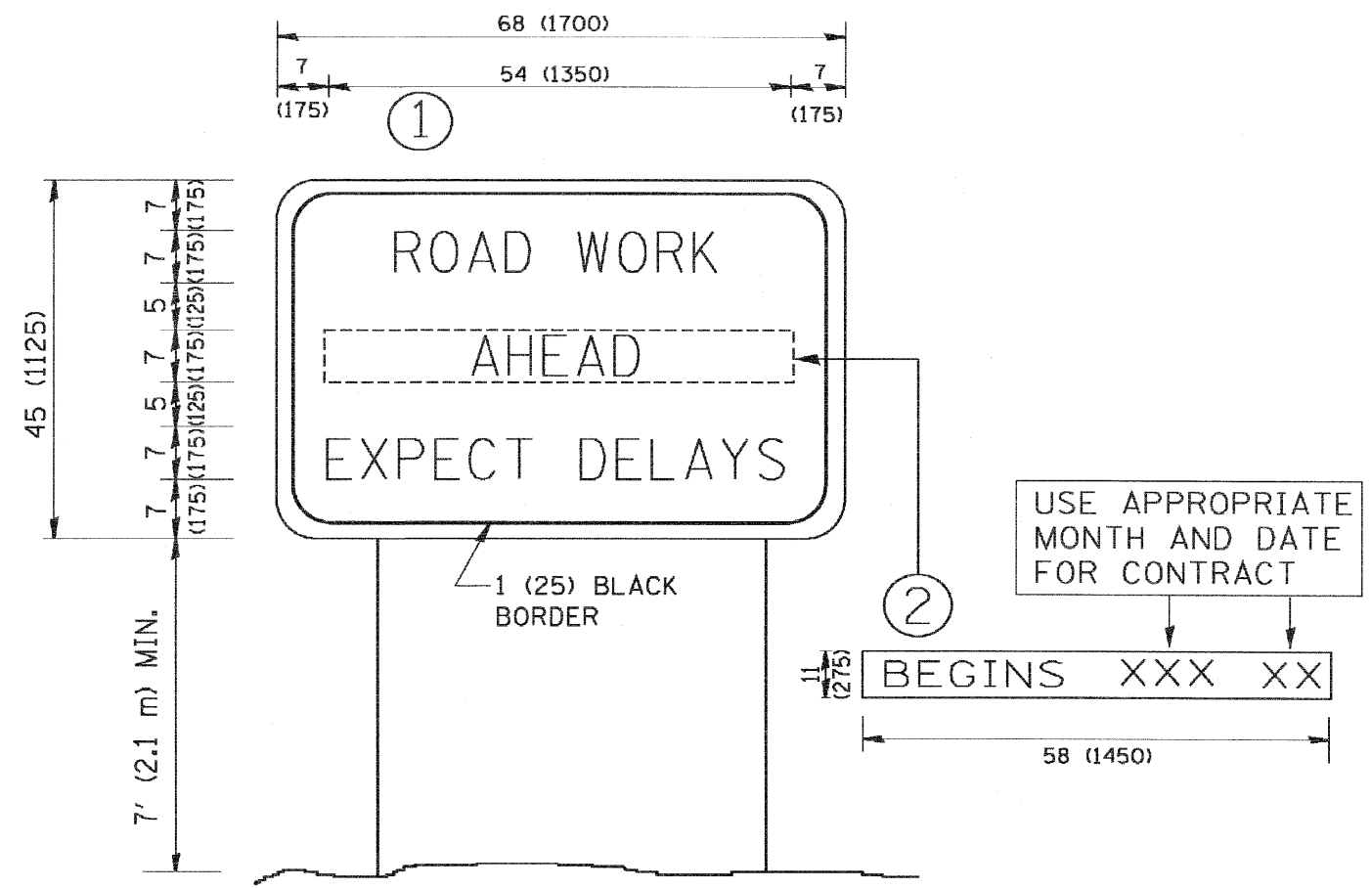
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = W:\distrtd\22x34\vol3.dgn	USER NAME = goglionobt	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
		DRAWN -	REVISED - A. HOUSEH 10-09-96
	PLOT SCALE = 58.000 / IN.	CHECKED -	REVISED - A. HOUSEH 10-17-96
	PLOT DATE = 1/4/2000	DATE - 03-19-90	REVISED - T. RAMMACHER 01-06-00

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		852	18 B-4-R-1	WILL	27	26
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		

TC-13		FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT
CONTRACT NO. 60D84			



NOTES:

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

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

FILE NAME =	USER NAME = goglionobt	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
W:\distotd\22x34\to22.dgn	DRAWN -	REVISED - R. MIRS 12-11-97	852			18 B-4-R-1	WILL	27	27	
PLOT SCALE = 50.000 "/ IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99	TC-22			CONTRACT NO. 60D84				
PLOT DATE = 1/4/2000	DATE -	REVISED - C. JUCIUS 01-31-07	SCALE: NONE			SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	