

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	(1981-082B-I) BR 24	VARIOUS	30	1
		ILLINOIS	CONTRACT NO. 62X93	



*Andrew A. Thompson*  
01/24/2025

Andrew. A. Thompson      Date  
Illinois Registered Engineer No. 062-072372  
Registration Expires Nov. 30, 2025  
Signature and Seal Apply to Drawings 1-9



*José Canales*  
01/24/2025

Jose Canales      Date  
Illinois Registered Engineer No. 062-076979  
Registration Expires Nov. 30, 2025  
Signature and Seal Apply to Drawings 10-26

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED  
HIGHWAY PLANS

F.A.U. ROUTE 313  
MCDONOUGH STREET (US 6/US 52)  
OVER THE DES PLAINES RIVER  
F.A.U. ROUTE 341 BRANDON ROAD  
OVER THE DES PLAINES RIVER

WILL COUNTY  
SECTION (1981-082B-I) BR 24  
LIFT GATE REPLACEMENT

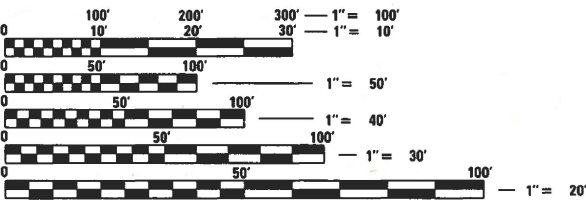
C-91-119-25

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENTS ARE LOCATED IN THE CITY OF JOLIET

TRAFFIC DATA:  
MCDONOUGH STREET (US 6/US 52) (MINOR ARTERIAL)  
2023 ADT = 9,800 VPD  
POSTED AND DESIGN SPEED = 30 MPH

TRAFFIC DATA:  
BRANDON ROAD (MINOR ARTERIAL)  
2023 ADT = 6,800 VPD  
POSTED AND DESIGN SPEED = 35 MPH

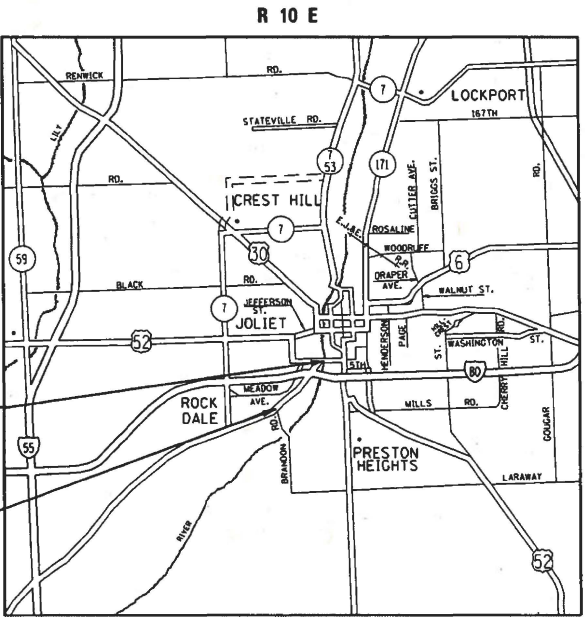


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD  
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT  
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS  
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

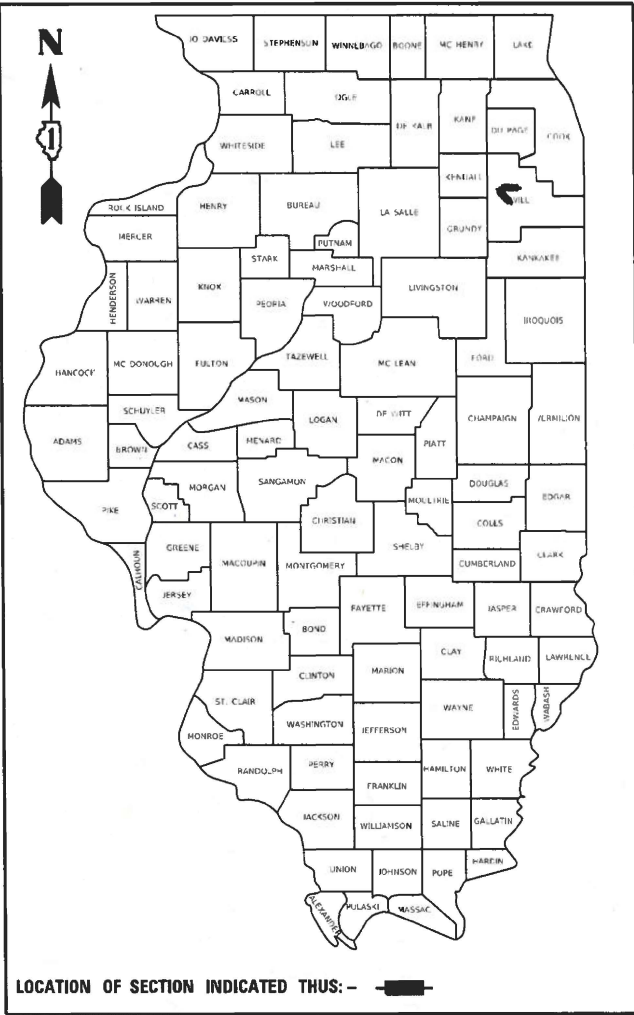
PROJECT ENGINEER: RODRIGO LEDEZMA, P.E. (847) 705-4580  
PROJECT MANAGER: J. ALAIN MIDY, P.E. (847) 221-3056

CONTRACT NO. 62X93



JOLIET TOWNSHIP

N  
N.T.S.



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED Feb 3rd 2025  
*José Canales*  
REGIONAL ENGINEER  
March 21 2025  
*Scott A. Etkin*  
ENGINEER OF DESIGN AND ENVIRONMENT  
March 21 2025  
*Chadley*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**wsp**  
30 N. LASALLE STREET  
SUITE 4200  
CHICAGO, IL 60602

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OF THE STATE OF ILLINOIS

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HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
630001-13	STEEL PLATE BEAM GUARDRAIL
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631032-10	TRAFFIC BARRIER TERMINAL, TYPE 6A
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≤ 40 MPH
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-10	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
782006-01	GUARDRAIL AND BARRIER BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

1. THE CONTRACTOR SHALL CALL "J.U.L.I.E" AT (800) 892-0123 OR 811 AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH BURIED ELECTRIC, TELEPHONE, AND GAS UTILITIES ARE IN THE AREA.
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH AFFECTED UTILITY COMPANIES THE CITY OF JOLIET.
3. THE CONTRACTOR SHALL NOT SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
4. THE CONTRACTOR SHALL CONTRACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR KALPANA KANNAN-HOSADURGA, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING ANY WORK.
5. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
6. THE CONTRACTOR SHALL USE CARE NEAR ANY AND ALL EXISTING ITEMS THAT WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S OWN EXPENSE.
7. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTIES AT ALL TIMES DURING THE CONSTRUCTION OF THE PROJECT.
8. THE LOCATION OF THE EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MANS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT BE SHOWN IN THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.
10. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
11. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
12. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB NUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

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	PLOT DATE = 1/24/2025	DATE - 01/24/2025	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.
							ILLINOIS	FED. AID PROJECT		

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				STATE 100% MCDONOUGH ST	STATE 100% BRANDON ST				
				ROADWAY	ROADWAY				
				0005	0005				
				URBAN	URBAN				
50102400	CONCRETE REMOVAL	CU YD	0.1	0	0.1				
50300225	CONCRETE STRUCTURES	CU YD	0.2	0	0.2				
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	20	0	20				
52100510	ANCHOR BOLTS, 3/4"	EACH	24	16	8				
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	175	62.5	112.5				
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	3	1	2				
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	0	4				
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	1	2				
63200310	GUARDRAIL REMOVAL	FOOT	437.5	50	387.5				
67100100	MOBILIZATION	L SUM	1	0.5	0.5				
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56	28	28				
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	20	4	16				
X0326366	ELECTRICAL EQUIPMENT REMOVAL AND SALVAGE	EACH	6	4	2				
X0327739	MISCELLANEOUS ELECTRICAL WORK	L SUM	1	0.5	0.5				



USER NAME = USAT719599	DESIGNED - AT	REVISED -
	DRAWN - AT	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - KE	REVISED -
PLOT DATE = 1/24/2025	DATE - 01/24/2025	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

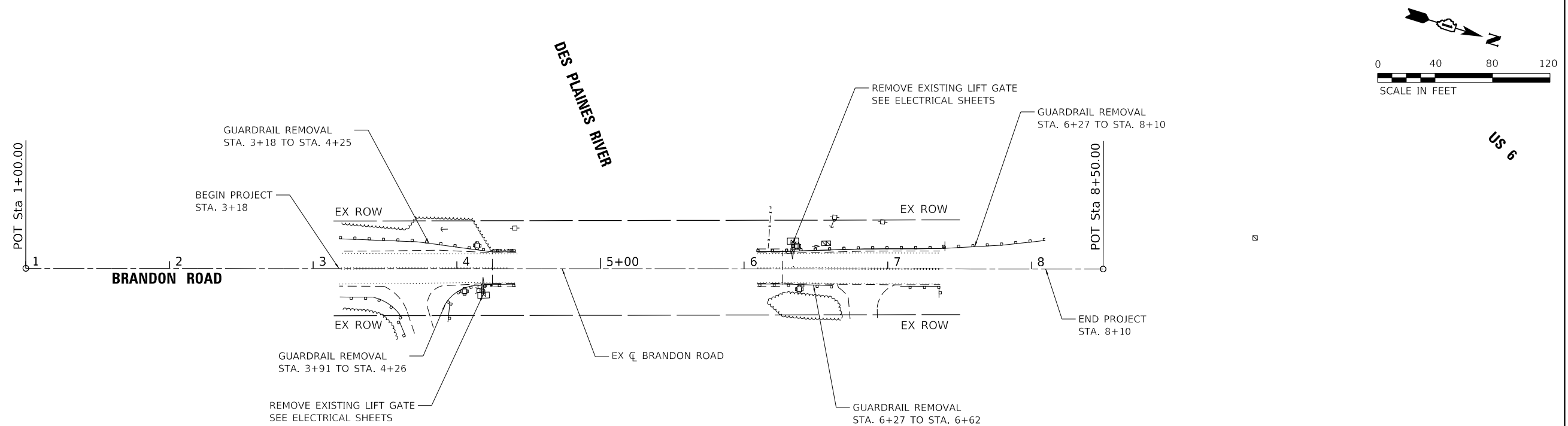
MCDONOUGH AND BRANDON STREET SUMMARY OF QUANTITIES			
SCALE:	SHEET	OF	SHEETS
STA.		TO STA.	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(1981-082B-I) BR 24	WILL	30	3
CONTRACT NO. 62X93				
		ILLINOIS	FED. AID PROJECT	

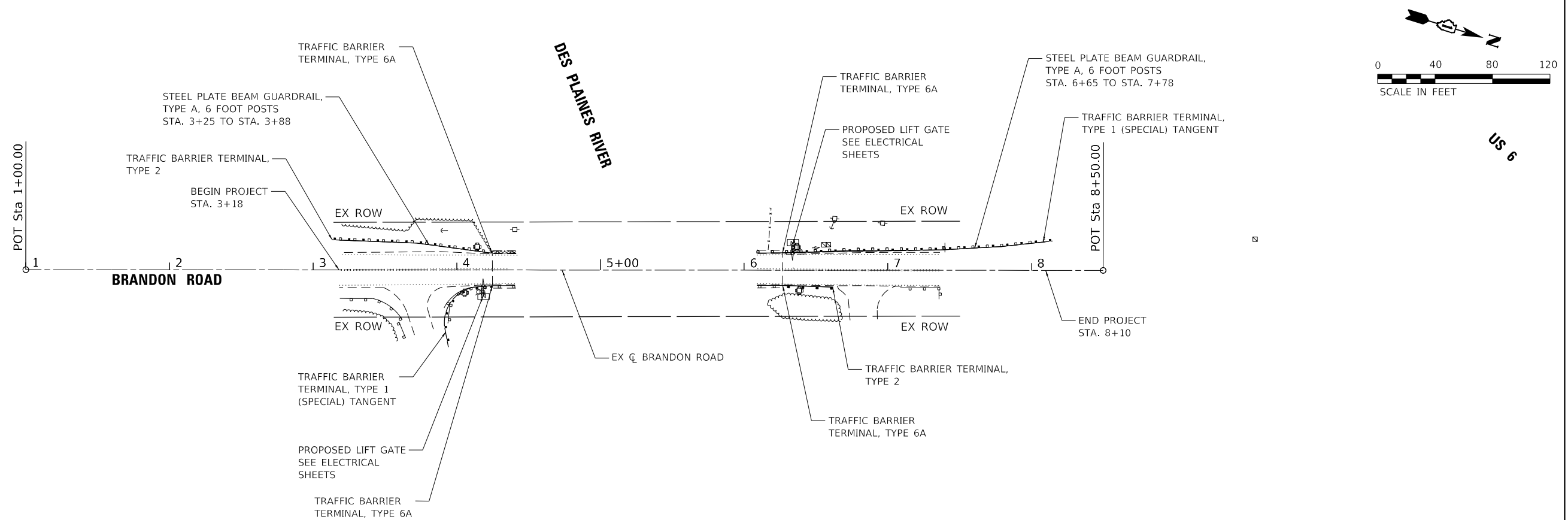






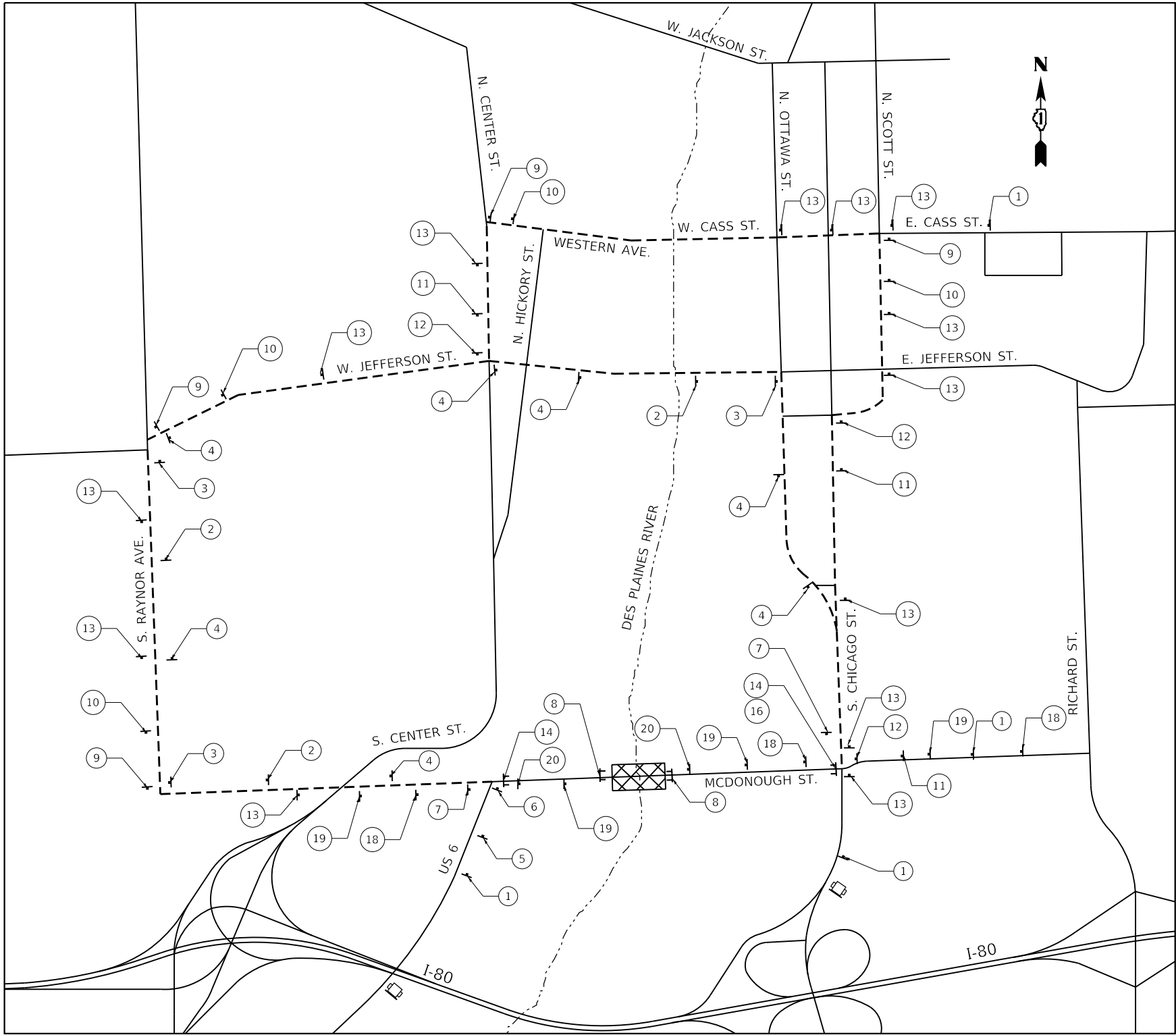


## REMOVAL PLAN



## PROPOSED PLAN

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LEGEND

- TYPE III BARRICADE WITH FLASHING LIGHT
- SIGN
- DETOUR ROUTE
- WORK ZONE
- CHANGEABLE MESSAGE SIGN

1

DETOUR AHEAD

W20-2-48(0)

2

DETOUR EAST

6

7

END DETOUR

M4-8a-2418(0)

3

DETOUR EAST

6

1

4

DETOUR EAST

6

5

DETOUR EAST

6

6

DETOUR EAST

6

1

7

ROAD CLOSED

R11-2-4830

8

DETOUR WEST

6

9

DETOUR WEST

6

10

DETOUR WEST

6

11

DETOUR WEST

6

12

DETOUR WEST

6

1

13

DETOUR WEST

6

1

14

ROAD CLOSED TO THRU TRAFFIC

R11-4-6030

15

DETOUR

M4-10L-4818

16

DETOUR

M4-10R-4818

17

6

M1-40-2424

18

ROAD CLOSED AHEAD

W20-3-48(0)

19

ROAD CLOSED 500 FT

W20-3-48(0)

20

ROAD WILL BE CLOSED FROM MMM ## THRU MMM

ARTERIAL ROAD INFORMATION SIGN 66"x48" 6"R, 1.3" BORDER, BLACK ON ORANGE. SEE NOTE 8.

M4-8-2412(0)

M3-3-2412(0)

M1-40-2424

M5-1R-2115(0)

M4-8-2412(0)

M3-3-2412(0)

M1-40-2424

M6-1R-2115(0)

M4-8-2412(0)

M3-3-2412(0)

M1-40-2424

M5-1L-2115(0)

M4-8-2412(0)

M3-3-2412(0)

M1-40-2424

M6-1R-2115(0)

M4-8-2412(0)

M3-3-2412(0)

M1-40-2424

M6-1L-2115(0)

NOTES:

- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR A MINIMUM OF 72 HOURS PRIOR TO BEGINNING WORK.
- THE LOCATIONS OF SIGNAGE AS SHOWN ON THE DETOUR PLAN ARE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL ADJUST SIGNAGE LOCATIONS AS NEEDED TO FIT FIELD CONDITIONS. FINAL LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
- EXISTING TRAFFIC SIGNS THAT CONFLICT WITH THE DETOUR SIGNAGE SHALL BE COVERED AS DIRECTED BY THE ENGINEER.
- UTILIZE IDOT HIGHWAY STANDARD TC-21 FOR TYPICAL SIGN SPACING.
- THE CONTRACTOR SHALL NOT OBSTRUCT ANY EXISTING SIGN WITH THE PLACEMENT OF DETOUR SIGNAGE.
- A MINIMUM OF FOURTEEN (14) DAYS IN ADVANCE OF THE ROAD CLOSURE, THE CONTRACTOR SHALL PLACE ONE (1) ARTERIAL ROAD INFORMATION SIGN AT EACH END OF THE PROJECT AS DIRECTED AND AT A LOCATION DESIGNATED BY THE ENGINEER TO INFORM MOTORISTS OF THE UPCOMING CLOSURE. THE MESSAGE SHALL BE APPROVED BY THE ENGINEER. THIS WORK IS TO BE PAID FOR AT THE CONTRACT UNIT PRICE FOR CHANGEABLE MESSAGE SIGN.
- DETOUR SIGNAGE SHALL BE CONSIDERED INCLUDED IN THE COST FOR TEMPORARY TRAFFIC CONTROL AND PROTECTION (SPECIAL) EXCEPT AS OTHERWISE NOTED.
- ARTERIAL ROAD INFORMATION SIGN SHALL BE PAID AS TEMPORARY INFORMATION SIGNING.
- CONTRACT SHALL COORDINATE TRAFFIC CONTROL OPERATIONS WITH ADJACENT CONTRACTS PRIOR TO IMPLEMENTATION OF DETOUR.

USER NAME	= USAT719599	DESIGNED -	AT	REVISED -	
DRAWN -	AT	REVISED -			
PLOT SCALE	= 1000.0000 ' / in.	CHECKED -	KE	REVISED -	
PLOT DATE	= 1/24/2025	DATE -	01/24/2025	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MCDONOUGH STREET (US 6/US 52)  
CAR DETOUR PLAN

SCALE: NTS SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	(1981-082B-I) BR 24	WILL	30	7
CONTRACT NO. 62X93				
ILLINOIS FED. AID PROJECT				



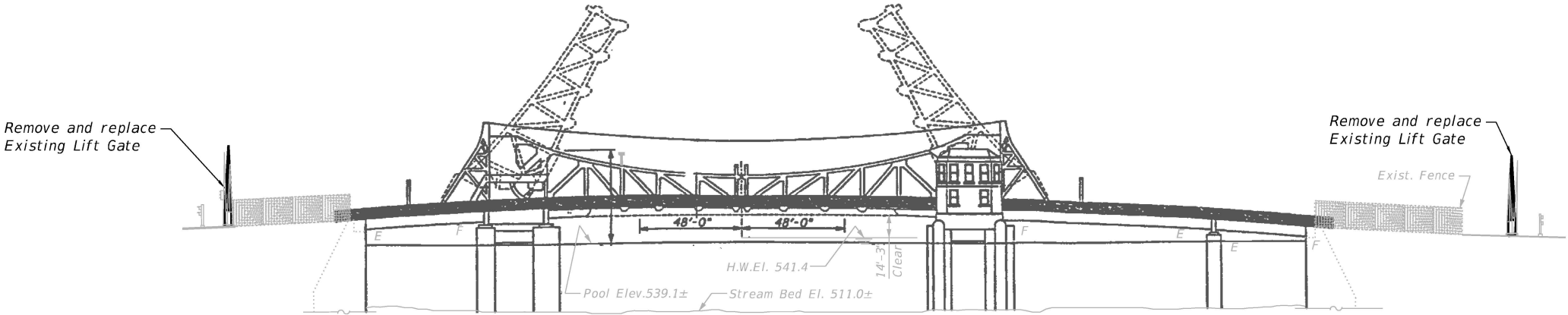


SCOPE OF WORK

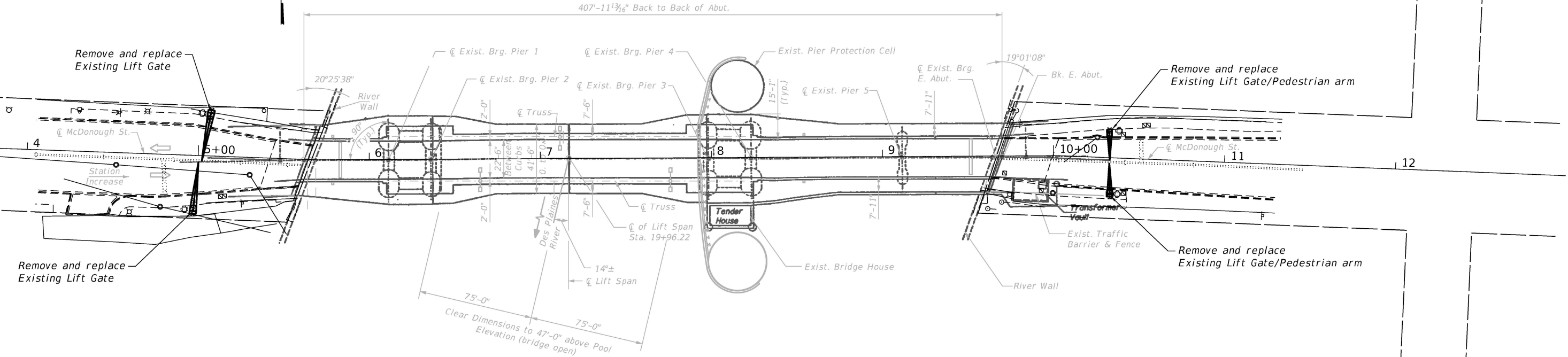
1. Terminate existing control conductors and pull back to nearest junction box.
2. Remove existing traffic gate and foundation.
3. Furnish and install new traffic gate foundation and new traffic gates. Near side northeast and southeast traffic gates shall have pedestrian gate arms.
4. Extend the existing control conductors to the new traffic gates. Furnish and install insulated compression splices and conductors as required to extend existing conductors to the new traffic gates.
5. Contractor shall field verify gate arm length prior to shop drawing submittal and the final installation shall comply with latest edition of MUTCD.
6. Contractor to provide a spare gate housing for each bridge in addition to the spare parts listed in the specifications.
7. Core out existing anchor bolts, then grout and install proposed anchor bolts. See structural details on sheet 26 of 29.

GENERAL NOTES

1. All electrical work shall be performed in accordance with the requirements of the National Electric Code (NEC), American Association of State Highway and Transportation Officials (AASHTO), and Manual of Uniform Traffic Control Devices (MUTCD).
2. Location of electrical equipment and devices are approximate. Exact locations shall be determined upon approved shop drawings and accurate measured dimensions.



ELEVATION





PLAN


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 <div>WSP USA Inc. 30 N. LA SALLE STREET SUITE 4000 CHICAGO, IL 60602 TEL: (312) 782-8150 FAX: (312) 782-1884</div>	USER NAME =			DESIGNED - JC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELECTRICAL PLAN & ELEVATION STRUCTURE NO. 099-9904			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED - BLC				REVISED -					313	(1981-082B-1) BR 24	WILL	30	10
	PLOT SCALE =			DRAWN - RP	REVISED -					CONTRACT NO. 62X93				
	PLOT DATE =			CHECKED - ME	REVISED -		SHEET NO. E-1 OF E-17 SHEETS			ILLINOIS FED. AID PROJECT				


SYMBOLS


 Existing conduit or wire


 New conduit or wire


 Field conduit or wire

 Droop cable

 AC Motor  
# = Horsepower


 Disconnect Switch  
Non-fused

 Box/Cabinet  
JB = Junction box  
PB = Pull box  
TB = Termination box


 Navigation Light  
CL = Clearance light


 Brake


HAND SWITCHES - HS


 Toggle switch


PUSH BUTTON

 Normally open


 Normally closed


 Mushroom head maintained  
push button

 Indicating Light Color  
R = Red    G = Green  
A = Amber    B = Blue  
W = White


 Relay Coil  
CR = Control relay  
M = Motor contactor


RELAY CONTACTS


 Normally open contact

 Normally closed contact


 Center lock operator


 Gate operator


 Aerial cable connection point


 Terminal  
X = Panel or Box  
XXX = Wire number

POSITION (LIMIT) SWITCHES - LS

 Normally closed

 Normally closed  
held open

 Normally open

 Normally open  
held closed  
  
Limit switches are shown with bridge down,  
locks driven and traffic gates up

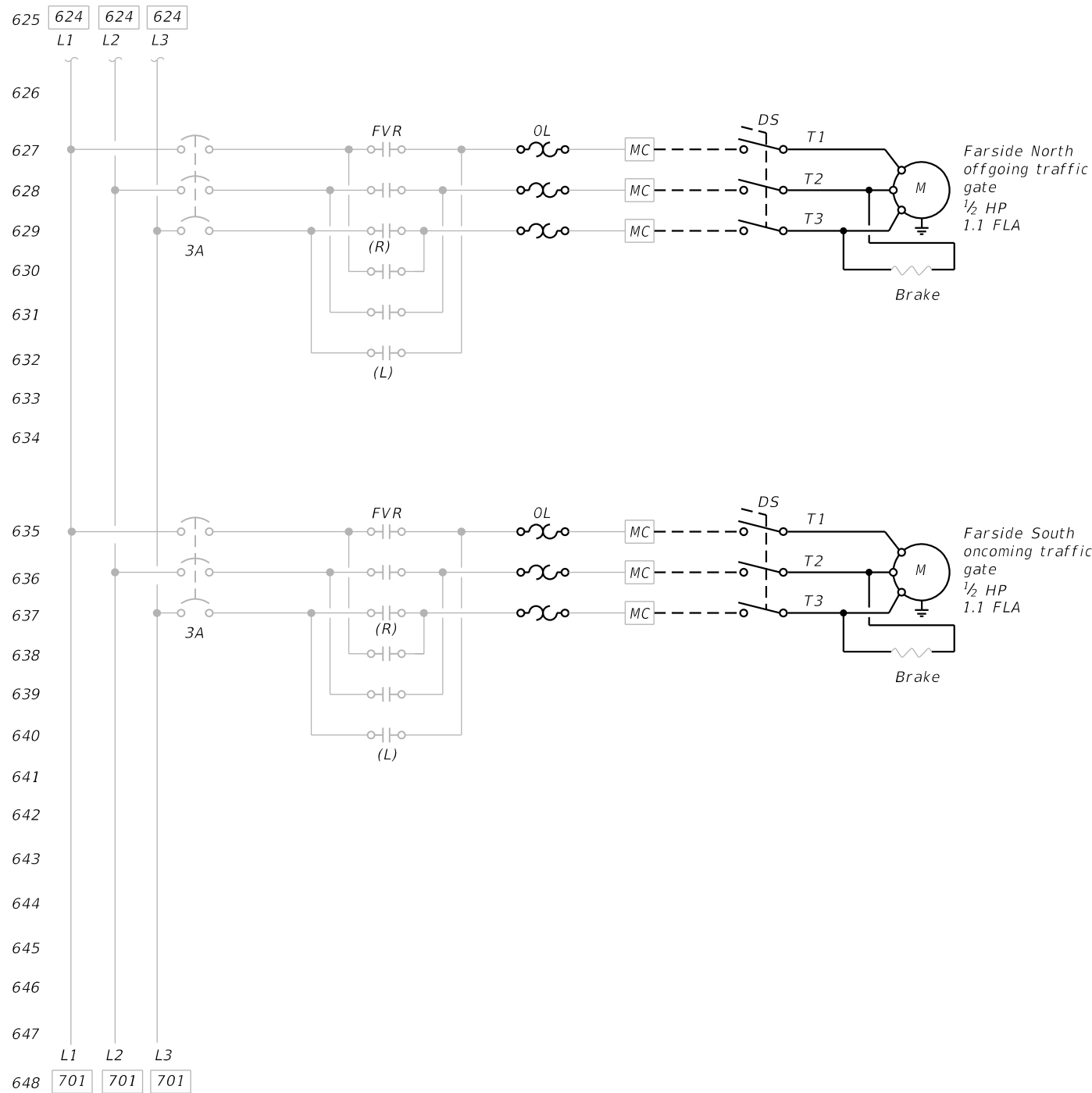
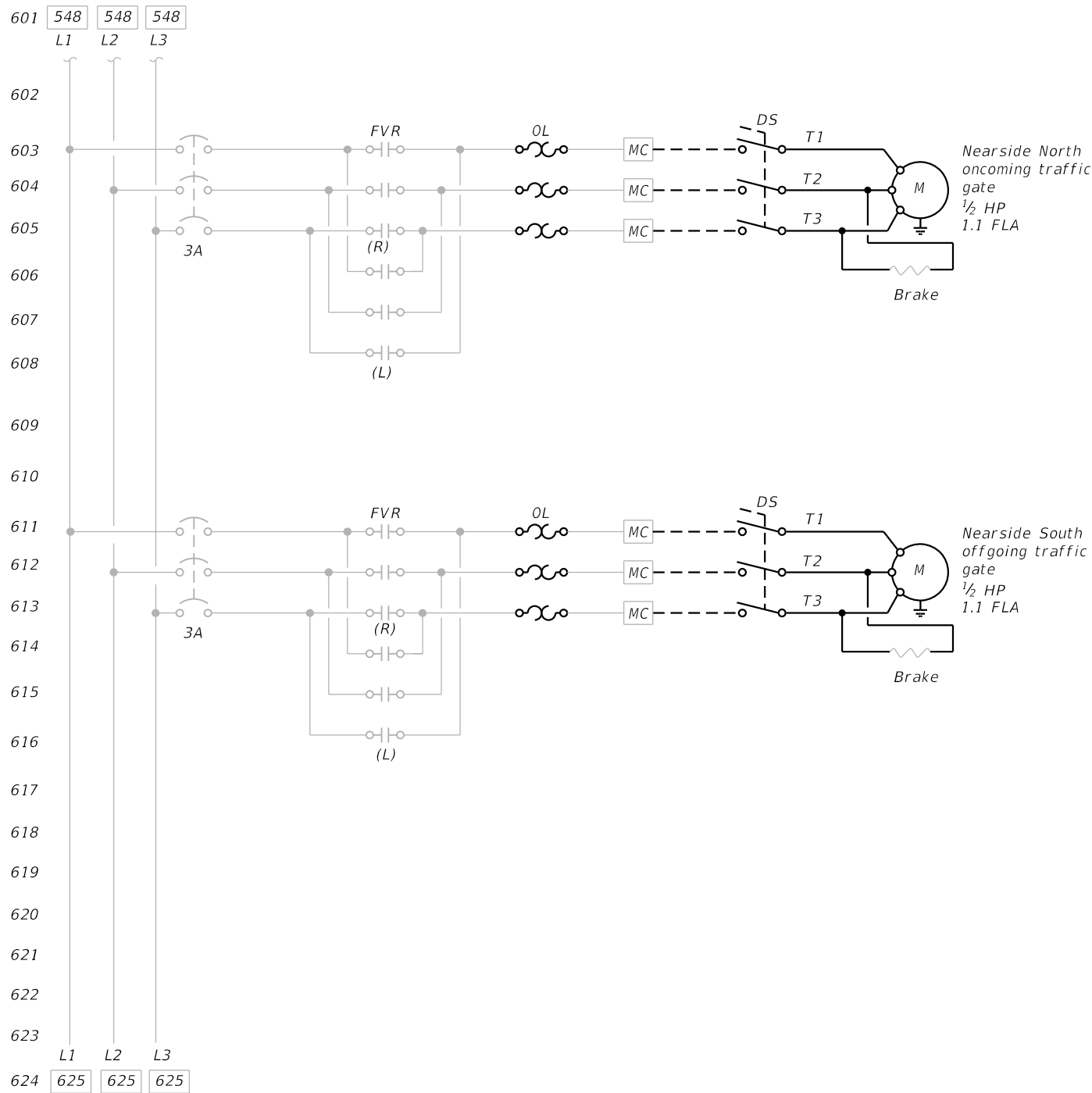
ABBREVIATIONS

A, AMPS	AMPERES
AP	AUXILIARY PANEL
C	CONSOLE
CB	CIRCUIT BREAKER
CR	CONTROL RELAY
DISC	DISCONNECT
FS	FAR SIDE
FSFO	FAR SIDE FULLY OPEN
FSTGD	FAR SIDE TRAFFIC GATE DOWN
GND	GROUND
HR	HAND RELEASED
IL	INDICATOR LIGHT
LCP	LEAF CONTROL PANEL
LLCBPR	LEAF LOCK CONTROL BYPASS RELAY
LS	LIMIT SWITCH
M	MOTOR
MDP	NEAR SIDE MACHINERY AREA MAIN DISTRIBUTION PANEL
NAV	NAVIGATION
NL	NAVIGATION LIGHTS
NS	NEAR SIDE
NSFO	NEAR SIDE FULLY OPEN
NSTGD	NEAR SIDE TRAFFIC GATE DOWN
OL	OVERLOAD
OPM	OVERLOAD PROTECTION MODULE
P	PULL
PH	PHASE

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- Note:
1. Schematic diagrams are from 1990 shop drawing. All pertinent circuits and wire numbers shall be field verified by the Contractor before beginning work.
  2. Replace overload heaters as needed for 125% of nameplate full load current at 480 V.a.c.
  3. Traffic gate disconnect switch (DISC) is integral to the gate enclosure.



WSP USA Inc.  
30 N. LASALLE STREET  
SUITE 4200  
CHICAGO, IL 60602  
TEL: (312) 782-8150  
FAX: (312) 782-1984

USER NAME =	DESIGNED - JC	REVISED -
	CHECKED - BLC	REVISED -
PLOT SCALE =	DRAWN - RP	REVISED -
PLOT DATE =	CHECKED - ME	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC GATE POWER  
STRUCTURE NO. 099-9904

SHEET NO. E-3 OF E-17 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	(1981-082B-I) BR 24	WILL	30	12
CONTRACT NO. 62X93				
ILLINOIS FED. AID PROJECT				

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1001 4024 4024 4024 4024  
120HW 120PLC 12010 N

1002

1003

1004

1005

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1007

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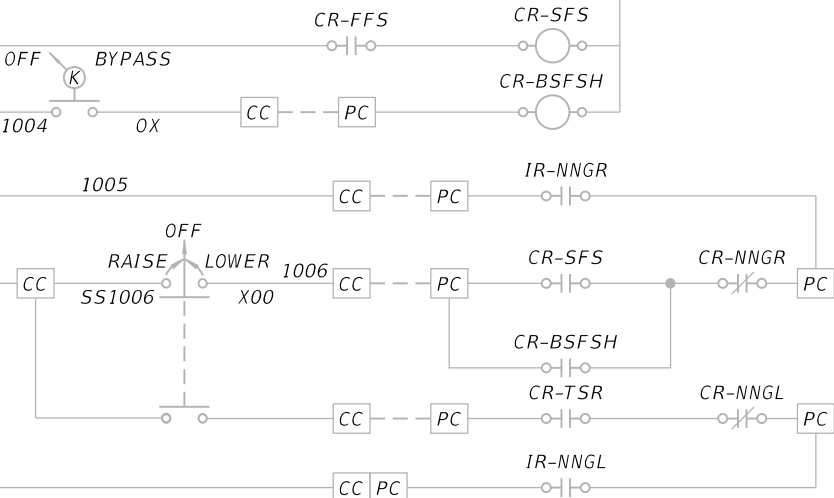
1022

1023

1024 1101 1101 1101 1101

NLP-3 NLP-3N  
1116 1116

### CONTROL CABINET



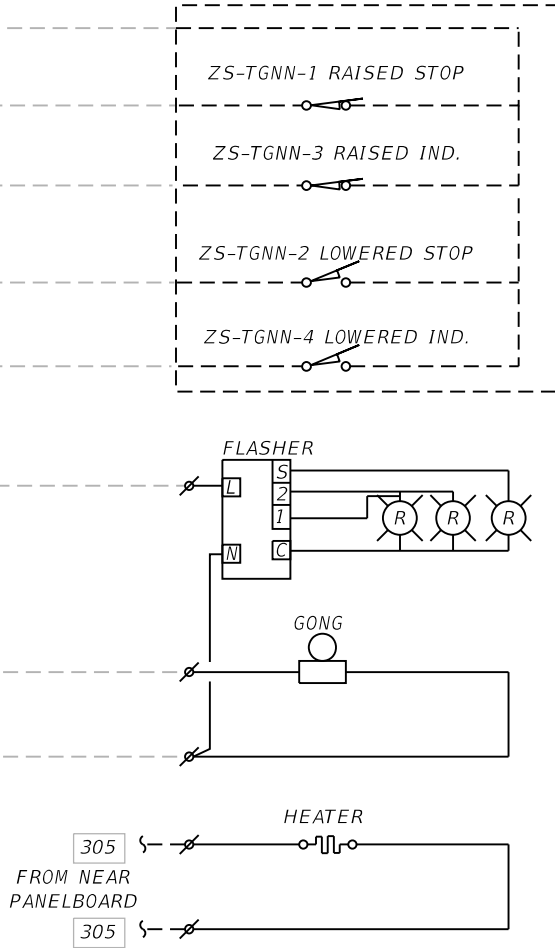
### TERMINAL LEGEND

CC CONTROL CONSOLE  
PC PLC CABINET  
MC MOTOR CONTROL CENTER

### RELAY LEGEND

CR CONTROL RELAY  
IR INTERPOSING RELAY

### FIELD



### MOTOR CONTROL CENTER



### NEARSIDE NORTH OFFGOING TRAFFIC GATE LIMIT SWITCH

	LOWERED	RAISED	
(1)			RAISE STOP
(2)			LOWER STOP
(3)			RAISED INDICATION
(4)			LOWER INDICATION
(5)			SPARE
(6)			SPARE
(7)			SPARE
(8)			SPARE



WSP USA Inc.  
30 N. LASALLE STREET  
SUITE 4200  
CHICAGO, IL 60602  
TEL: (312) 782-8150  
FAX: (312) 782-1984

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PLOT SCALE =	DRAWN - RP	REVISED -
PLOT DATE =	CHECKED - ME	REVISED -

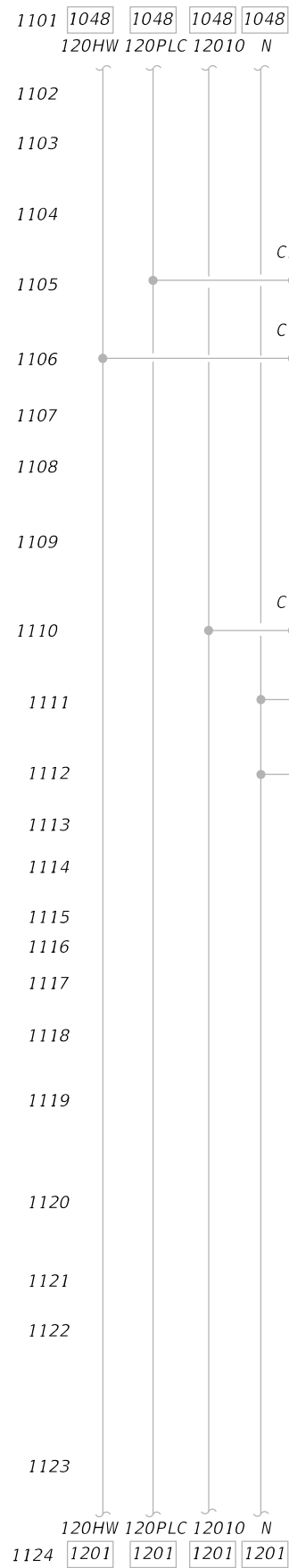
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC GATE POWER  
STRUCTURE NO. 099-9904

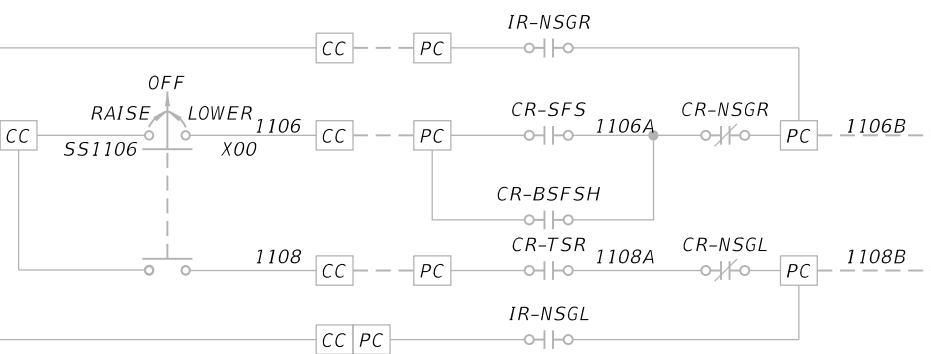
SHEET NO. E-4 OF E-17 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	(1981-082B-I) BR 24	WILL	30	13
CONTRACT NO. 62X93				
ILLINOIS FED. AID PROJECT				

MODEL: Default  
FILE NAME: pw:\wsp-us-pw-bentley.com\wsp-us-pw-l\Documents\Projects\US0039578-6832\_Lift\_Gates\Electrical\0039578-E025.dgn



CONTROL CABINET



NEARSIDE SOUTH OFFGOING  
TRAFFIC GATE RAISED

NEARSIDE SOUTH OFFGOING  
TRAFFIC GATE LOWERED

1024 1024  
NLP-3 NLP-3N

CB1118 (5A) CB1118

CR-TSR

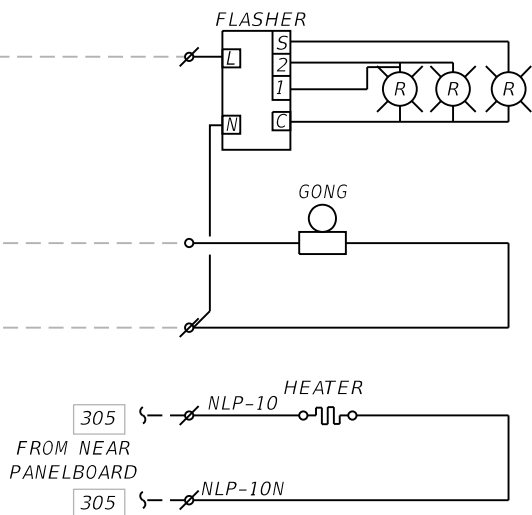
TERMINAL LEGEND

CC	CONTROL CONSOLE
PC	PLC CABINET
MC	MOTOR CONTROL CENTER

RELAY LEGEND

CR	CONTROL RELAY
IR	INTERPOSING RELAY

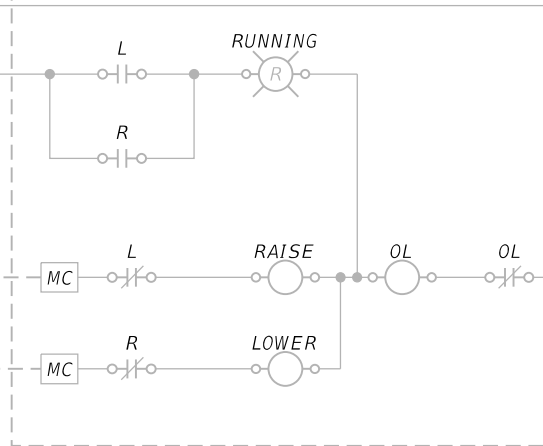
FIELD



MOTOR CONTROL CENTER

1024 1024  
CB4536 NLP-N

NEARSIDE SOUTH OFFGOING TRAFFIC GATE



ZS-TGNS-1 RAISED STOP

ZS-TGNS-3 RAISED IND.

ZS-TGNS-2 LOWERED STOP

ZS-TGNS-4 LOWERED IND.

LOWERED RAISED

(1)			RAISE STOP
(2)			LOWER STOP
(3)			RAISED INDICATION
(4)			LOWER INDICATION
(5)			SPARE
(6)			SPARE
(7)			SPARE
(8)			SPARE

NEARSIDE SOUTH OFFGOING  
TRAFFIC GATE LIMIT SWITCH

CB4536 NLP-N  
1201 1201



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC GATE POWER  
STRUCTURE NO. 099-9904

SHEET NO. E-5 OF E-17 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	(1981-082B-I) BR 24	WILL	30	14
CONTRACT NO. 62X93				
ILLINOIS FED. AID PROJECT				

MODEL: Default  
FILE NAME: pw:\wsp-us-pw-bentley.com\wsp-us-pw-l\Documents\Projects\US0039578-6832\_Lift\_Gates\Electrical\0039578-E026.dgn

1201 1124 1124 1124 1124  
120HW 120PLC 12010 N

1202

1203

1204

1205

1206

1207

1208

1209

1210

1211

1212

1213

1214

1215

1216

1217

1218

1219

1220

1221

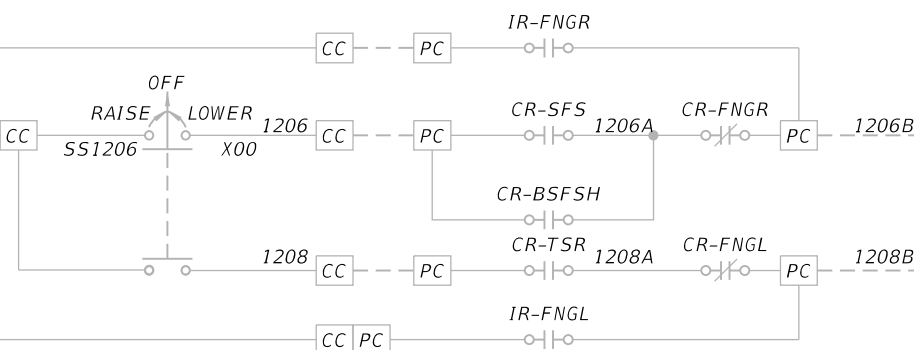
1222

1223

1224 1301 1301 1301 1301

NLP-2 NLP-2N  
1314 1314

### CONTROL CABINET



FAR SIDE NORTH OFFGOING  
TRAFFIC GATE RAISED

FAR SIDE NORTH OFFGOING  
TRAFFIC GATE LOWERED

POWER FROM NEW  
FAR SIDE LIGHTING PANEL (NLP)  
NLP-2 NLP-2N

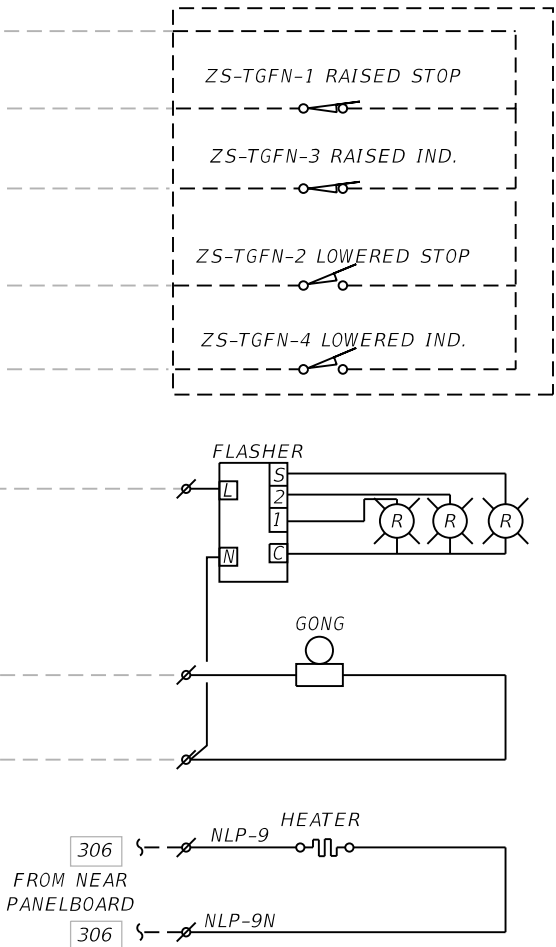
### TERMINAL LEGEND

CC CONTROL CONSOLE  
PC PLC CABINET  
MC MOTOR CONTROL CENTER

### RELAY LEGEND

CR CONTROL RELAY  
IR INTERPOSING RELAY

### FIELD



### MOTOR CONTROL CENTER



FAR SIDE NORTH OFFGOING  
TRAFFIC GATE LIMIT SWITCH

	LOWERED	RAISED	
(1)			RAISE STOP
(2)			LOWER STOP
(3)			RAISED INDICATION
(4)			LOWER INDICATION
(5)			SPARE
(6)			SPARE
(7)			SPARE
(8)			SPARE



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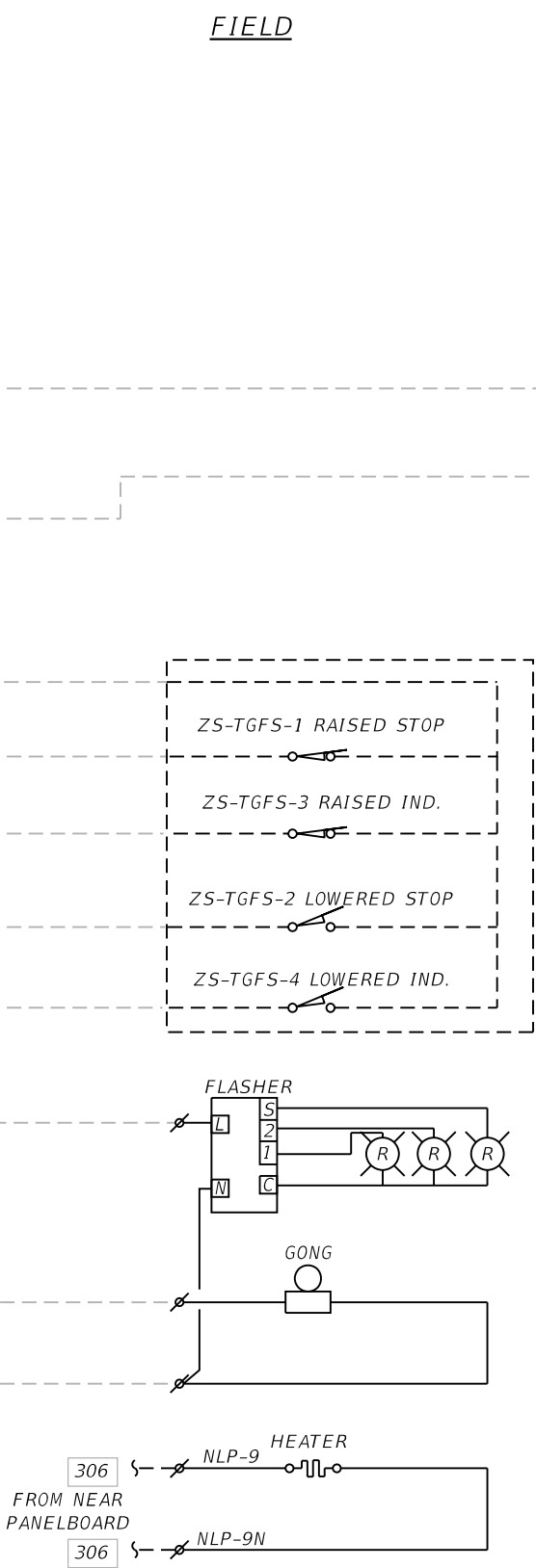
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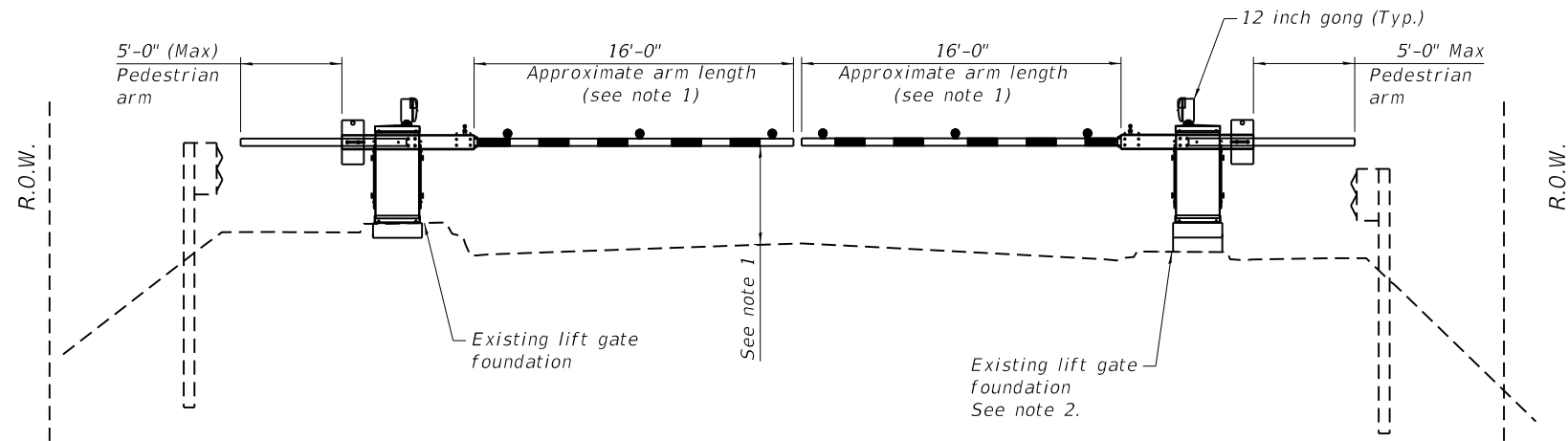
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC GATE POWER  
STRUCTURE NO. 099-9904

SHEET NO. E-6 OF E-17 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62X93				
ILLINOIS FED. AID PROJECT				

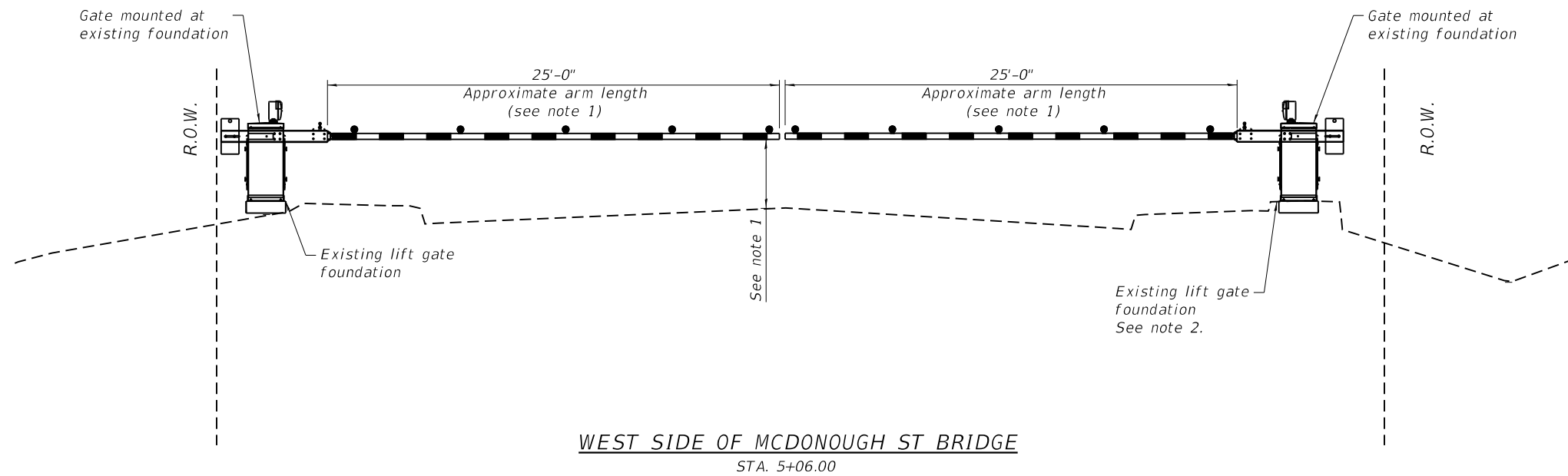




**EAST SIDE OF MCDONOUGH ST BRIDGE**  
STA. 10+33.00

**NOTES**

- ① Contractor shall field verify gate arm length prior to shop drawing submittal and the final installation shall comply with latest edition of MUTCD.
- ② Add grout bedding as needed in field to facilitate both gate arms lining up level with each other. See Sheet 27 for anchor bolt details and notes.



**WEST SIDE OF MCDONOUGH ST BRIDGE**  
STA. 5+06.00

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GATE CROSS SECTIONS  
STRUCTURE NO. 099-9904**

SHEET NO. E-8 OF E-17 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	(1981-082B-I) BR 24	WILL	30	17
CONTRACT NO. 62X93				
ILLINOIS FED. AID PROJECT				



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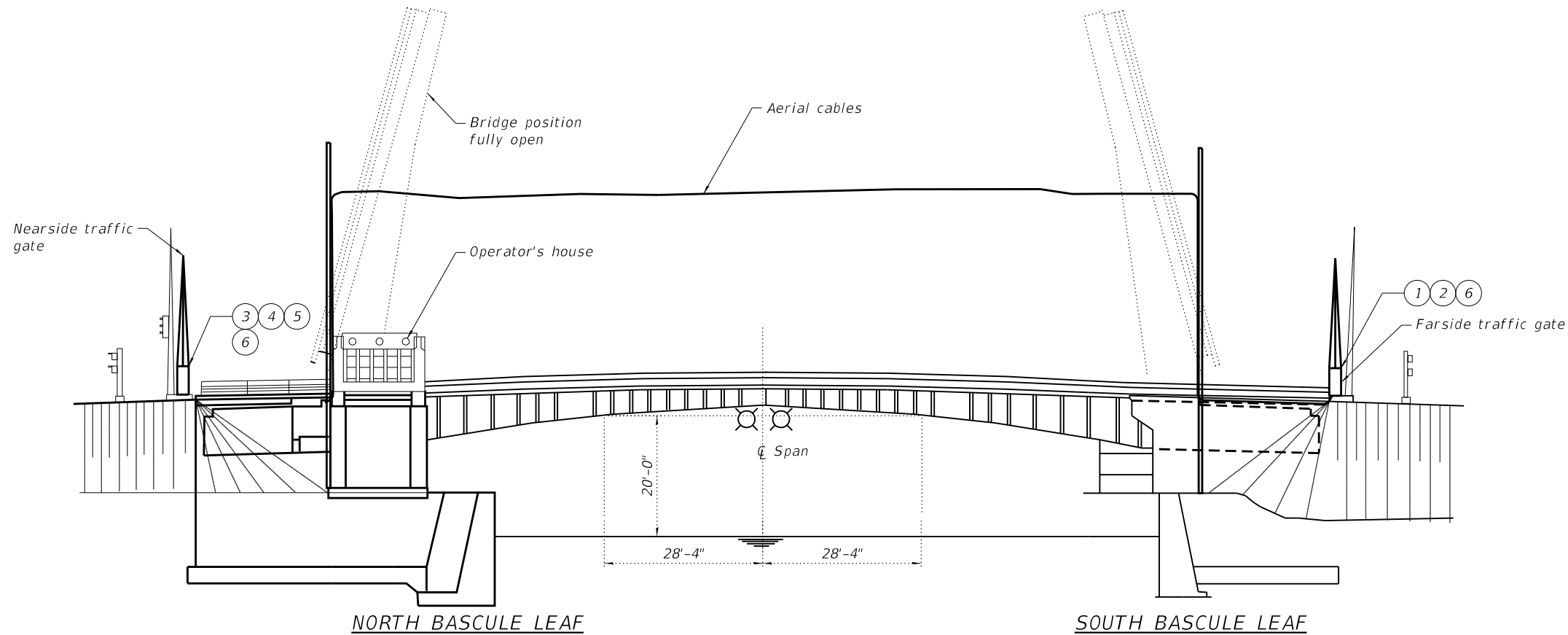
USER NAME =	DESIGNED - JC	REVISED -
	CHECKED - BLC	REVISED -
PLOT SCALE =	DRAWN - RP	REVISED -
PLOT DATE =	CHECKED - ME	REVISED -

SCOPE OF WORK

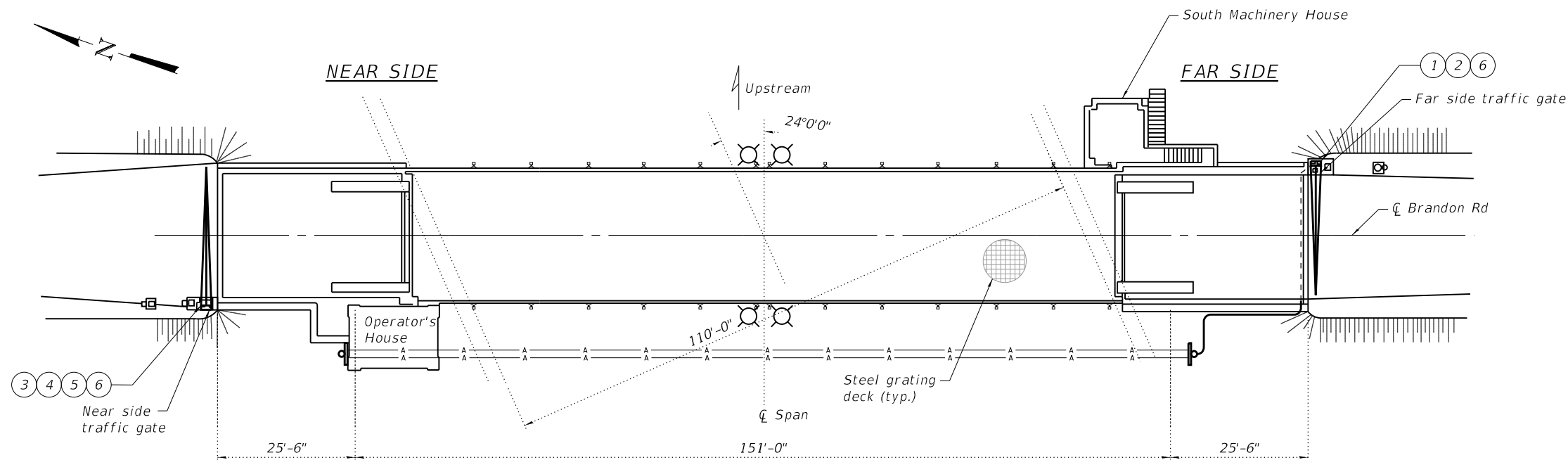
- 1
- Remove existing far side traffic gate, conductors back to aerial cable connection, and gate foundation.
- 2
- Furnish and install new far side traffic gate foundation, traffic gate, and conductors. Reconnect conductors to aerial cable.
- 3
- Remove existing near side traffic gate, gate foundation, and conductors back to auxiliary panel connection.
- 4
- Furnish and install new near side traffic gate foundation, traffic gate, and conductors. Reconnect conductors to auxiliary panel.
- 5
- Contractor to provide a spare gate housing for each bridge in addition to the spare parts listed in the specifications.
- 6
- Contractor shall field verify gate arm length prior to shop drawings submittal and the final installation shall comply with latest edition of MUTCD.
- 7
- Repair gate foundation. See structural details on sheet 26 of 29.
- 8
- Core out existing anchor bolts, then grout and install proposed anchor bolts. See structural details on sheet 26 of 29.

GENERAL NOTES

- 1
- All electrical work shall be performed in accordance with the requirements of the National Electric Code (NEC), American Association of State Highway and Transportation Officials (AASHTO), and Manual of Uniform Traffic Control Devices (MUTCD).
- 2
- Location of electrical equipment and devices are approximate. Exact locations shall be determined upon approved shop drawings and accurate measured dimensions.



ELEVATION



PLAN

MODEL: \$MODELNAME\$  
FILE NAME: \$FILEL\$

SDATE\$  
\$TIME\$

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DEPARTMENT OF TRANSPORTATION


ELECTRICAL PLAN AND ELEVATION  
STRUCTURE NO. 099-9903


SHEET NO. E-9 OF E-17 SHEETS


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0341	(1981-082B-I) BR 24	WILL	30	18
CONTRACT NO. 62X93				
ILLINOIS FED. AID PROJECT				





SYMBOLS

 Existing conduit or wire


 New conduit or wire


 Field conduit or wire


 Droop cable

 AC Motor  
# = Horsepower


 Disconnect Switch  
Non-fused

 Box/Cabinet  
JB = Junction box  
PB = Pull box  
TB = Termination box


 Navigation Light  
CL = Clearance light


 Solenoid brake


HAND SWITCHES - HS


 Toggle switch


PUSH BUTTON

 Normally open


 Normally closed


 Mushroom head maintained  
push button

 Indicating Light Color  
R = Red    G = Green  
A = Amber    B = Blue  
W = White


 Relay Coil  
CR = Control relay  
M = Motor contactor


RELAY CONTACTS


 Normally open contact

 Normally closed contact


 Center lock operator


 Gate operator


 Aerial cable connection point


 Terminal  
X = Panel or Box  
XXX = Wire number

POSITION (LIMIT) SWITCHES - LS

 Normally closed

 Normally closed  
held open

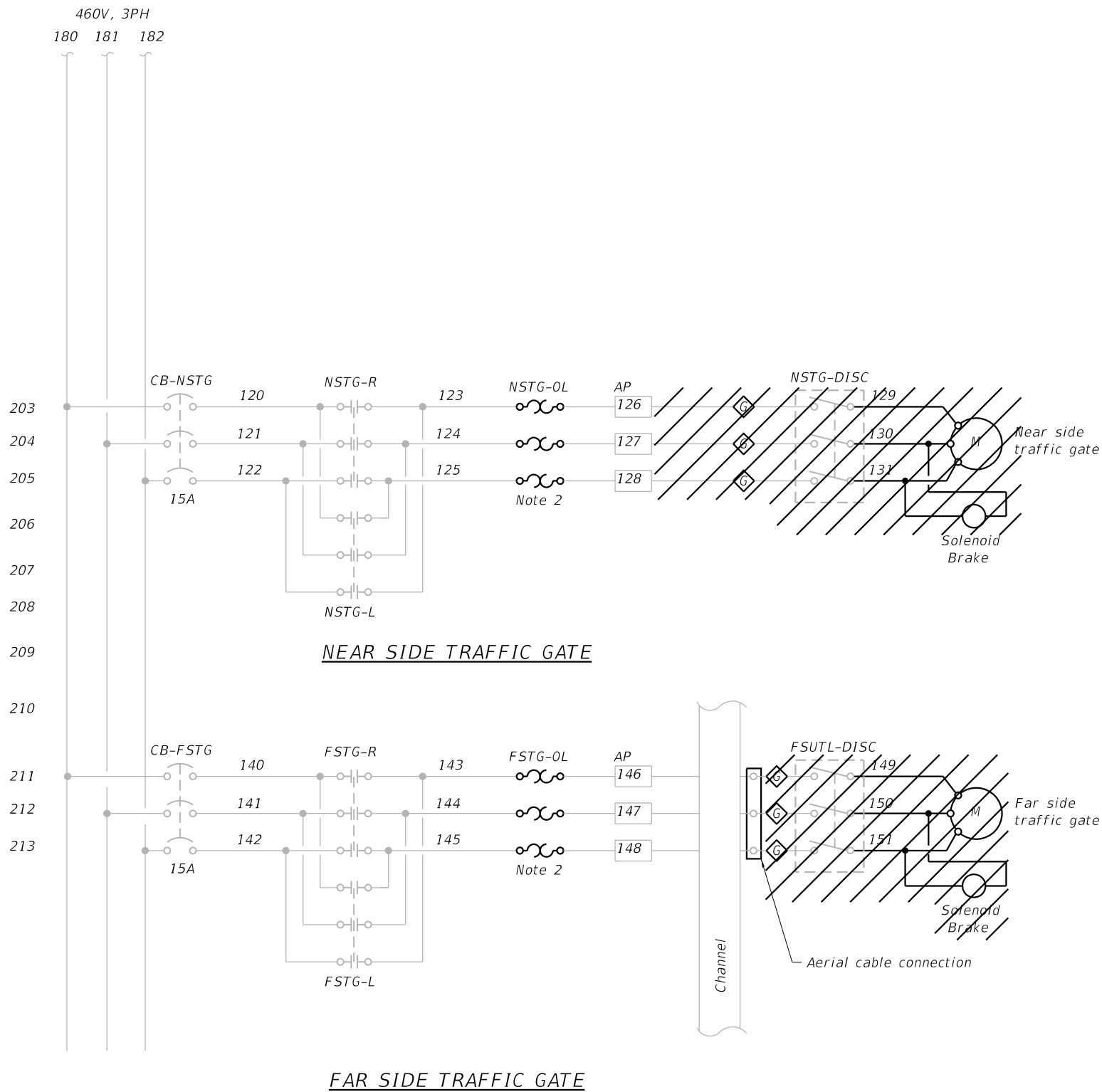
 Normally open

 Normally open  
held closed


Limit switches are shown with bridge down,  
locks driven and traffic gates up

ABBREVIATIONS

A, AMPS	AMPERES
AP	AUXILIARY PANEL
C	CONSOLE
CB	CIRCUIT BREAKER
CR	CONTROL RELAY
DISC	DISCONNECT
FS	FAR SIDE
FSFO	FAR SIDE FULLY OPEN
FSTGD	FAR SIDE TRAFFIC GATE DOWN
GND	GROUND
HR	HAND RELEASED
IL	INDICATOR LIGHT
LCP	LEAF CONTROL PANEL
LLCBPR	LEAF LOCK CONTROL BYPASS RELAY
LS	LIMIT SWITCH
M	MOTOR
MDP	NEAR SIDE MACHINERY AREA MAIN DISTRIBUTION PANEL
NAV	NAVIGATION
NL	NAVIGATION LIGHTS
NS	NEAR SIDE
NSFO	NEAR SIDE FULLY OPEN
NSTGD	NEAR SIDE TRAFFIC GATE DOWN
OL	OVERLOAD
OPM	OVERLOAD PROTECTION MODULE
P	PULL
PH	PHASE



**LEGEND**

 Equipment to be demolished

- Note:
- Schematic diagrams are from 1990 shop drawing. All pertinent circuits and wire numbers shall be field verified by the contractor before beginning work.
  - Replace overload heaters as needed for 125% of nameplate full load current at 480 V.a.c.
  - Traffic gate disconnect switch (DISC) is integral to the gate enclosure.

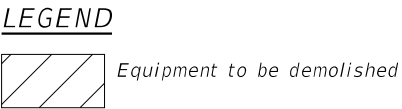
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC GATE POWER DEMOLITION  
STRUCTURE NO. 099-9903

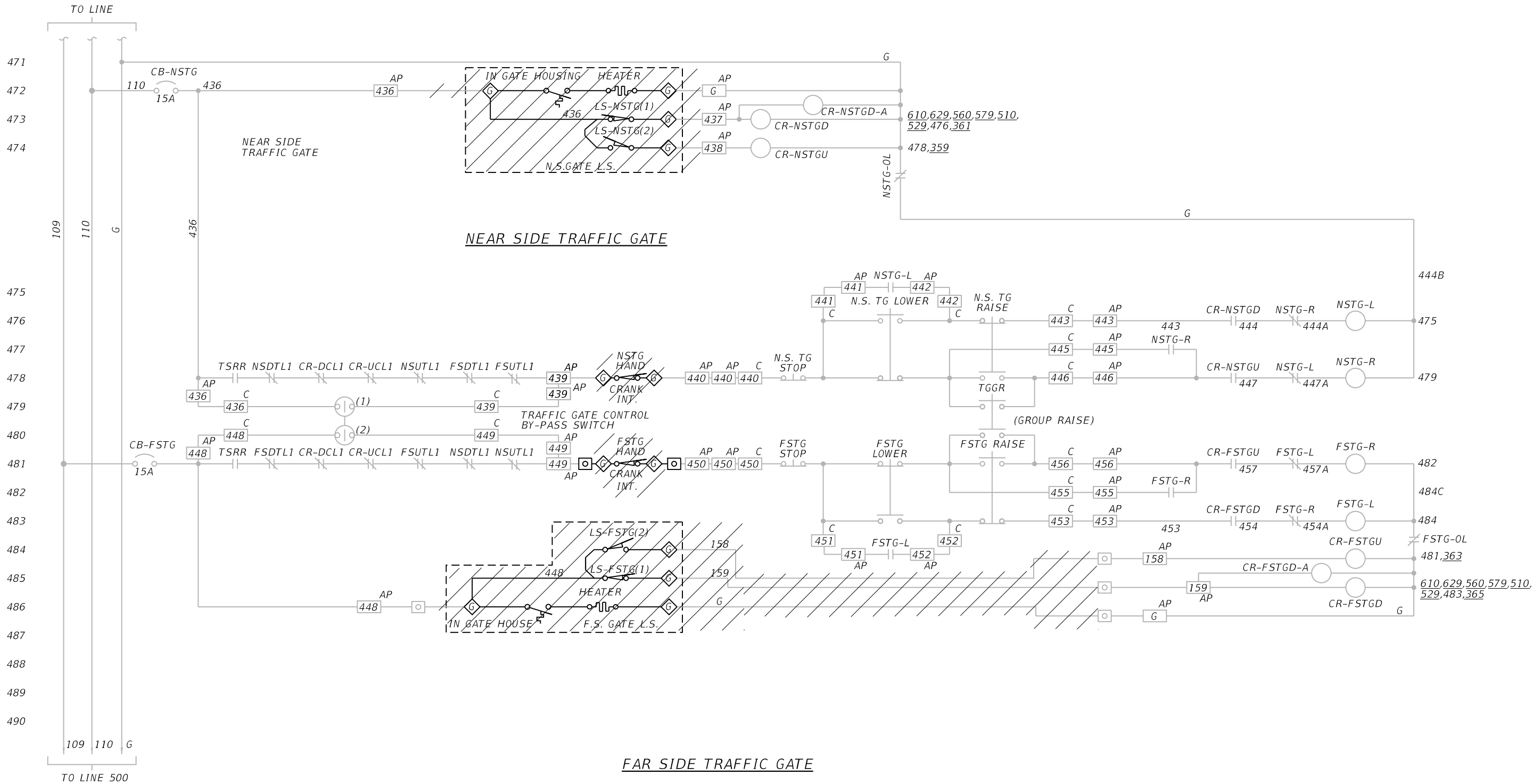
SHEET NO. E-11 OF E-17 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0341	(1981-082B-I) BR 24	WILL	30	20
CONTRACT NO. 62X93				
ILLINOIS		FED. AID PROJECT		

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PLOT DATE =	CHECKED - ME	REVISED -



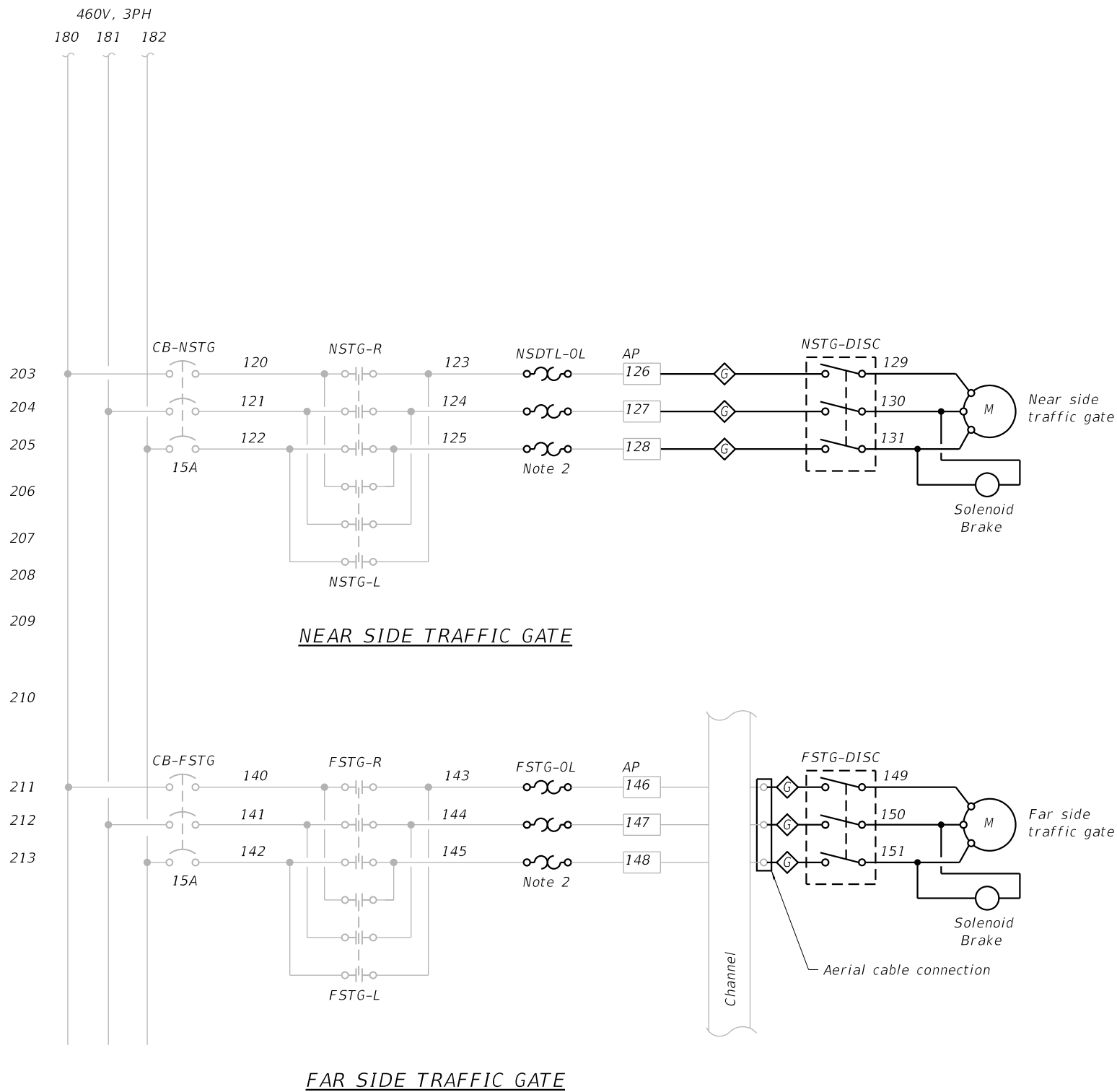
Note:  
1. Schematic diagrams are from 1990 shop drawing. All pertinent circuits and wire numbers shall be field verified by the contractor before beginning work.



**LEGEND**

 Equipment to be demolished

Note:  
1. Schematic diagrams are from 1990 shop drawing. All pertinent circuits and wire numbers shall be field verified by the contractor before beginning work.



- Note:
1. Schematic diagrams are from 1990 shop drawing. All pertinent circuits and wire numbers shall be field verified by the contractor before beginning work.
  2. Replace overload heaters as needed for 125% of nameplate full load current at 480 V.a.c.
  3. Traffic gate disconnect switch (DISC) is integral to the gate enclosure.

MODEL: \$MODELNAME\$  
FILE NAME: \$FILEL\$



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PLOT SCALE =	DRAWN - RP	REVISED -
PLOT DATE =	CHECKED - ME	REVISED -

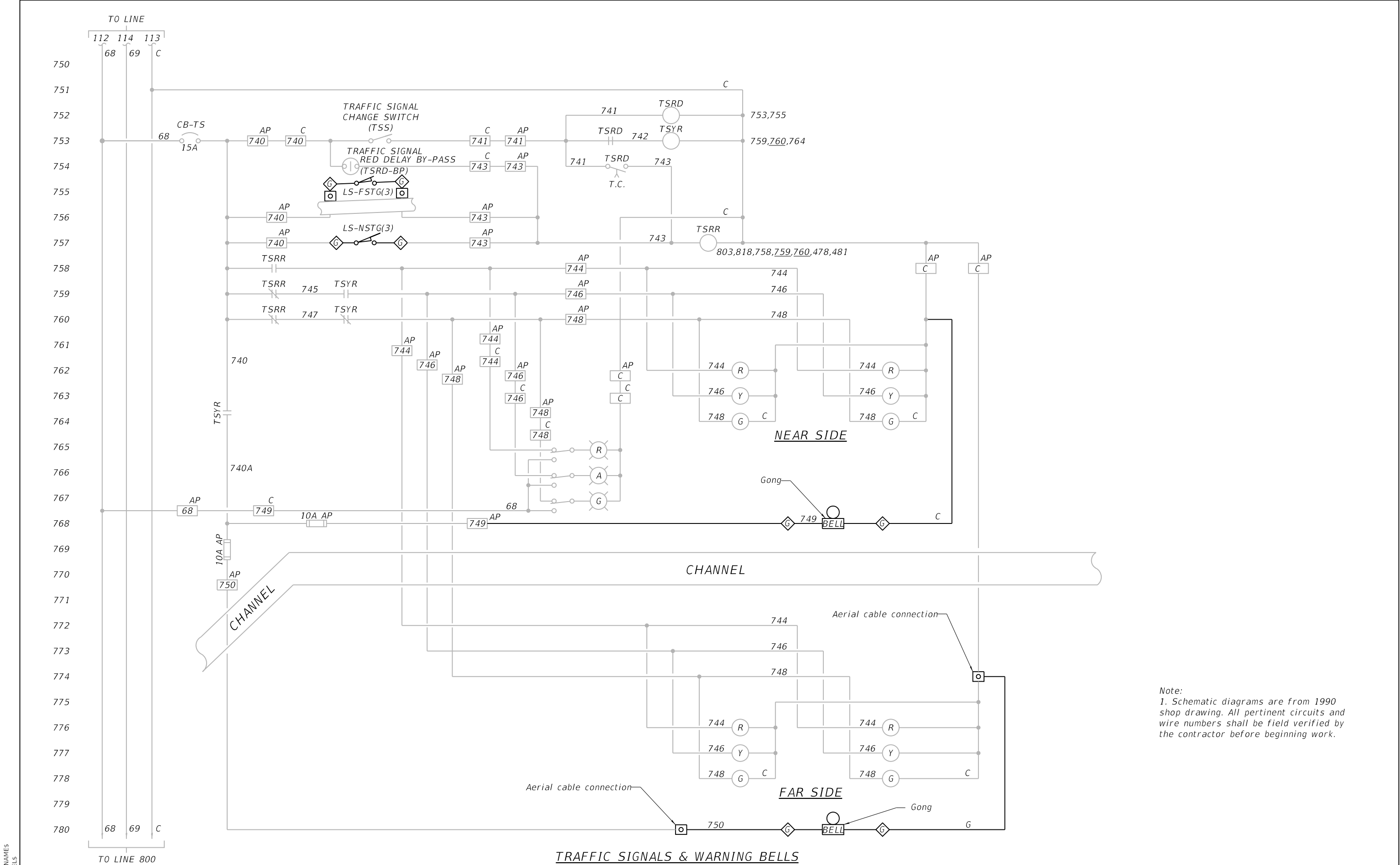
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC GATE POWER  
STRUCTURE NO. 099-9903

SHEET NO. E-14 OF E-17 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0341	(1981-082B-I) BR 24	WILL	30	23
CONTRACT NO. 62X93				
		ILLINOIS	FED. AID PROJECT	

\$DATE\$ \$TIME\$



Note:  
1. Schematic diagrams are from 1990 shop drawing. All pertinent circuits and wire numbers shall be field verified by the contractor before beginning work.

MODEL: SMODELNAMES  
FILE NAME: SFILES



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	CHECKED - BLC	REVISED -
PLOT SCALE =	DRAWN - RP	REVISED -
PLOT DATE =	CHECKED - ME	REVISED -

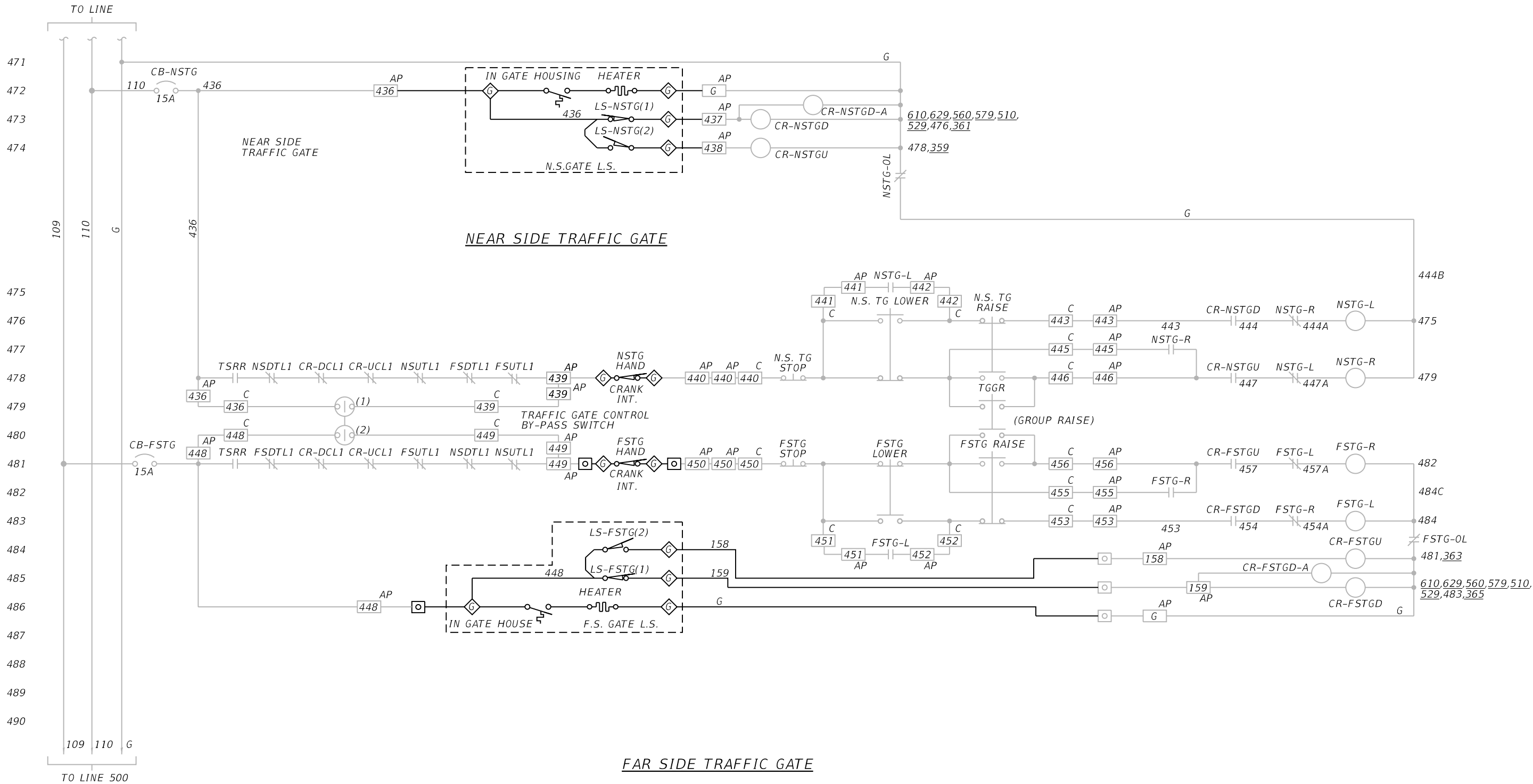
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC GATE CONTROL  
STRUCTURE NO. 099-9903

SHEET NO. E-15 OF E-17 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0341	(1981-082B-I) BR 24	WILL	30	24
CONTRACT NO. 62X93				
ILLINOIS		FED. AID PROJECT		

SDATE\$ \$TIME\$



GATE LIMIT SWITCHES				
CONTACT NUMBER	NEAR SIDE LS-NSTG	FAR SIDE LS-FSTG	DEVELOPMENT	FUNCTION
1	437-436	159-448	<div><div></div><div></div></div>	Operate Down Relay
2	438-436	158-448	<div><div></div><div></div></div>	Operate Up Relay
3	740-743	740-743	<div><div></div><div></div></div>	Energize Red Traffic Signals

Contact Open  
 Contact Closed

DownUp

HAND CRANK LIMIT SWITCH				
CONTACT NUMBER	NEAR SIDE GATE	FAR SIDE GATE	DEVELOPMENT	FUNCTION
1	439-440	449-450	<div><div></div><div></div></div>	Prevent Operation

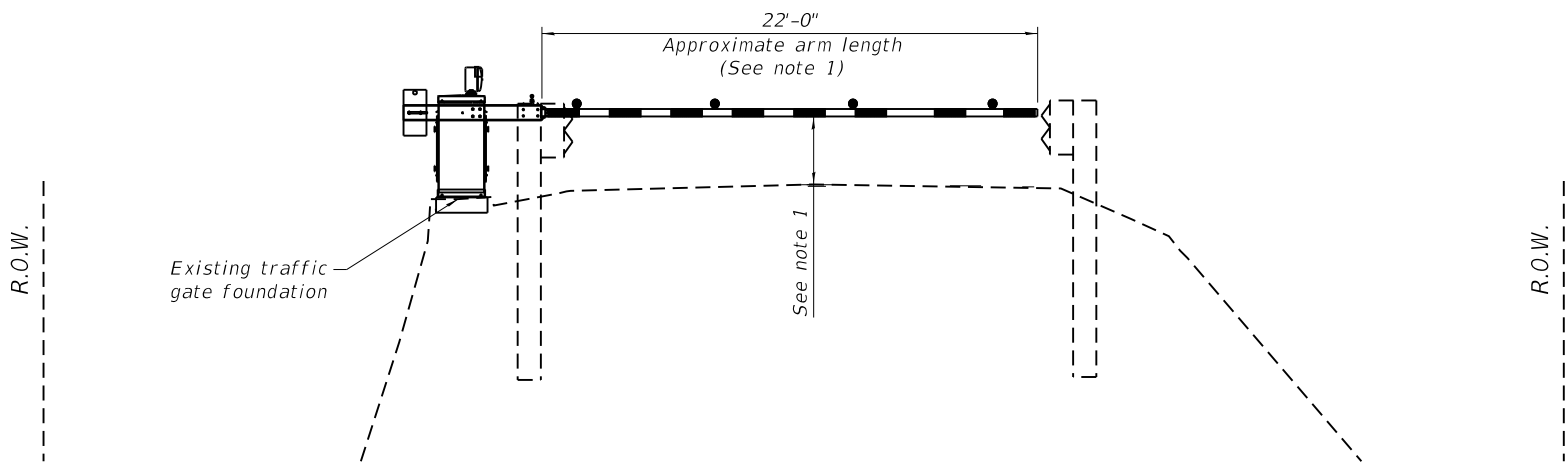
Contact Open  
 Contact Closed

Hand Crank InHand Crank Out

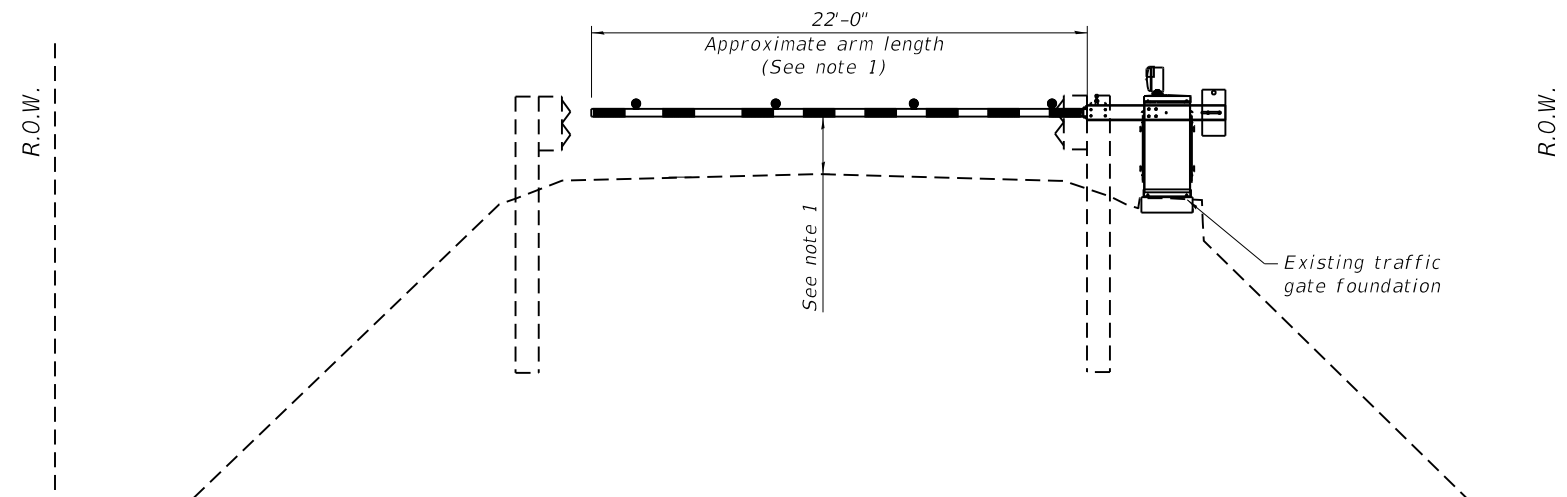
Note:  
1. Schematic diagrams are from 1990 shop drawing. All pertinent circuits and wire numbers shall be field verified by the contractor before beginning work.



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NORTH SIDE OF BRANDON RD  
STA. 6+33.82



SOUTH SIDE OF BRANDON RD  
STA. 4+18.59

NOTES

- ① Contractor shall field verify gate arm length prior to shop drawing submittal and the final installation shall comply with latest edition of MUTCD.



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

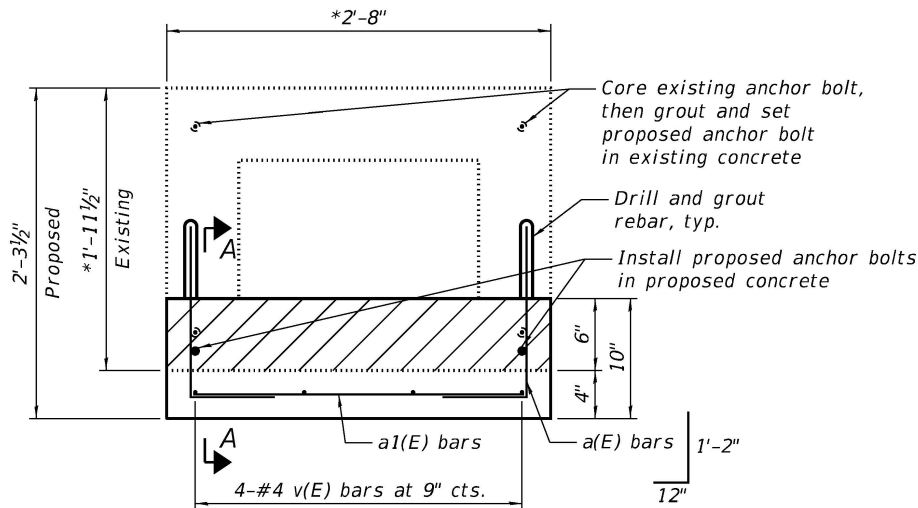
GATE CROSS SECTIONS  
STRUCTURE NO. 099-9903

SHEET NO. E-17 OF E-17 SHEETS

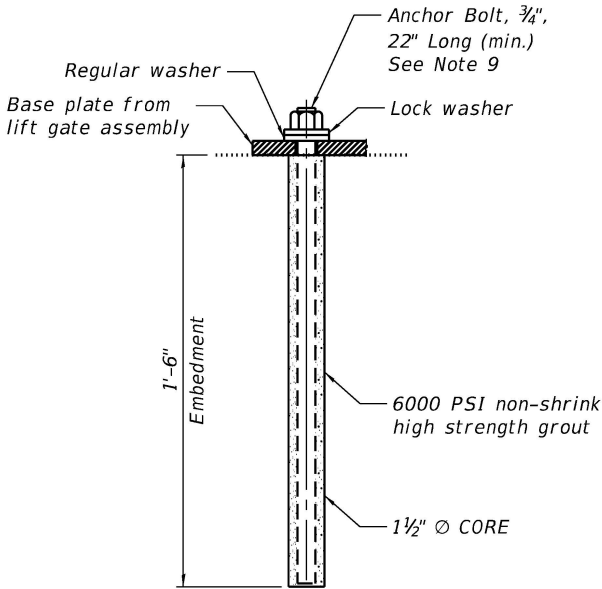
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62X93				
		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

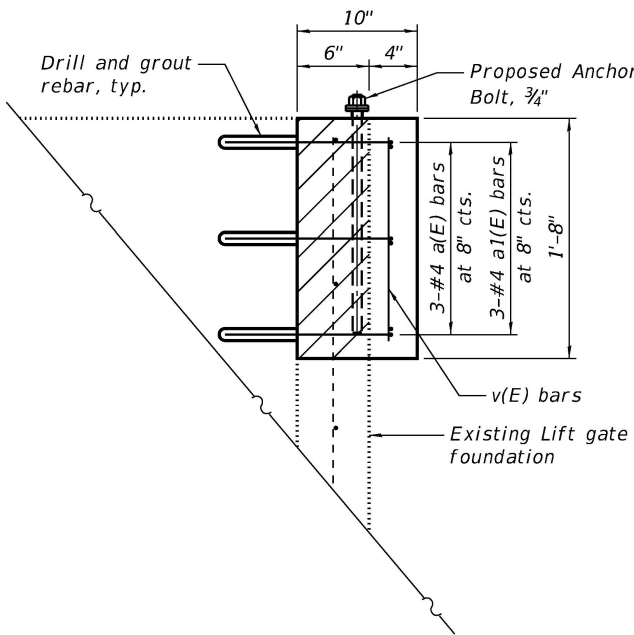
1. Reinforcement bars designated (E) shall be epoxy coated.
2. See sheet 10 for Scope of Work on SN 099-9904, McDonough Street over Des Plaines River and sheet 18 for Scope of Work on SN 099-9903, Brandon Road over Des Plaines River.
3. Plan dimensions and details relative to the existing foundations have been taken from a field survey and are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
4. The proposed anchor bolt layout locations shall be verified in the filed by the Contractor prior to coring out the existing anchor bolts to ensure minimum 2" clearance from edge-of-core to edge-of-concrete. Core holes may be adjusted to accommodate the proposed anchor bolt layout.
5. Cost of drilling and grouting reinforcing bars included in cost of Concrete Structures.
6. Bars shall be drilled and set according to Article 584 of the Standard Specifications. Bars shall have a minimum 6" embedment depth.
7. Cost of coring out the existing anchor bolt and installing grout for the proposed anchor bolts are included in cost of Anchor Bolts, 3/4".
8. The grout for the anchor bolts shall be according to Articles 584.03 and 1024.02 of the Standard Specifications.
9. Grout bedding and additional anchor bolt length shall be provided to adjust heights of top of foundations at the McDonough Street foundations as needed to facilitate level gate arms adjacent to each another.



DETAIL A - PLAN



DETAIL B  
ANCHOR BOLT CORE DETAIL  
(6 locations at the Brandon Road Bridge,  
16 locations at the McDonough Street Bridge)



SECTION A-A

LEGEND

\* Contractor to verify in the field.



TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu Yd	0.1
Concrete Structures	Cu Yd	0.2
Reinforcement Bars, Epoxy Coated	Pound	20
Anchor Bolts, 3/4"	Each	24

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STRUCTURE PLANS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313/034	(1981-082B-1) BR 24	WILL	30	27
CONTRACT NO. 62X93				
ILLINOIS FED. AID PROJECT				



WSP USA Inc.  
30 N. LASALLE STREET  
SUITE 4200  
CHICAGO, IL 60602  
TEL: (312) 782-8150  
FAX: (312) 782-1994

USER NAME =	DESIGNED - MGH	REVISED -
	CHECKED - BJD	REVISED -
PLOT SCALE =	DRAWN - GM	REVISED -
PLOT DATE =	CHECKED - BJD	REVISED -

MODEL: Detour  
FILE: USM4E\_2019-11-08\FEDDOT\TEC\Roads\gov\PHVDOT\Documents\DOT\_Offices\Dir\rd\_1\Project\CDL\US102\23\CA\DATA\CA\BSheet\V21.dgn

FOR U.S. ROUTES  
M1-40-2424

FOR ILLINOIS ROUTES  
M1-50-2424

R.R., UNMARKED ROUTES  
SPECIAL 24" x 18" VARIABLE  
4" BLACK LETTERS ON WHITE  
REFLECTIVE BACKGROUND

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

NORTH

M3-1-2412

EAST

M3-2-2412

SOUTH

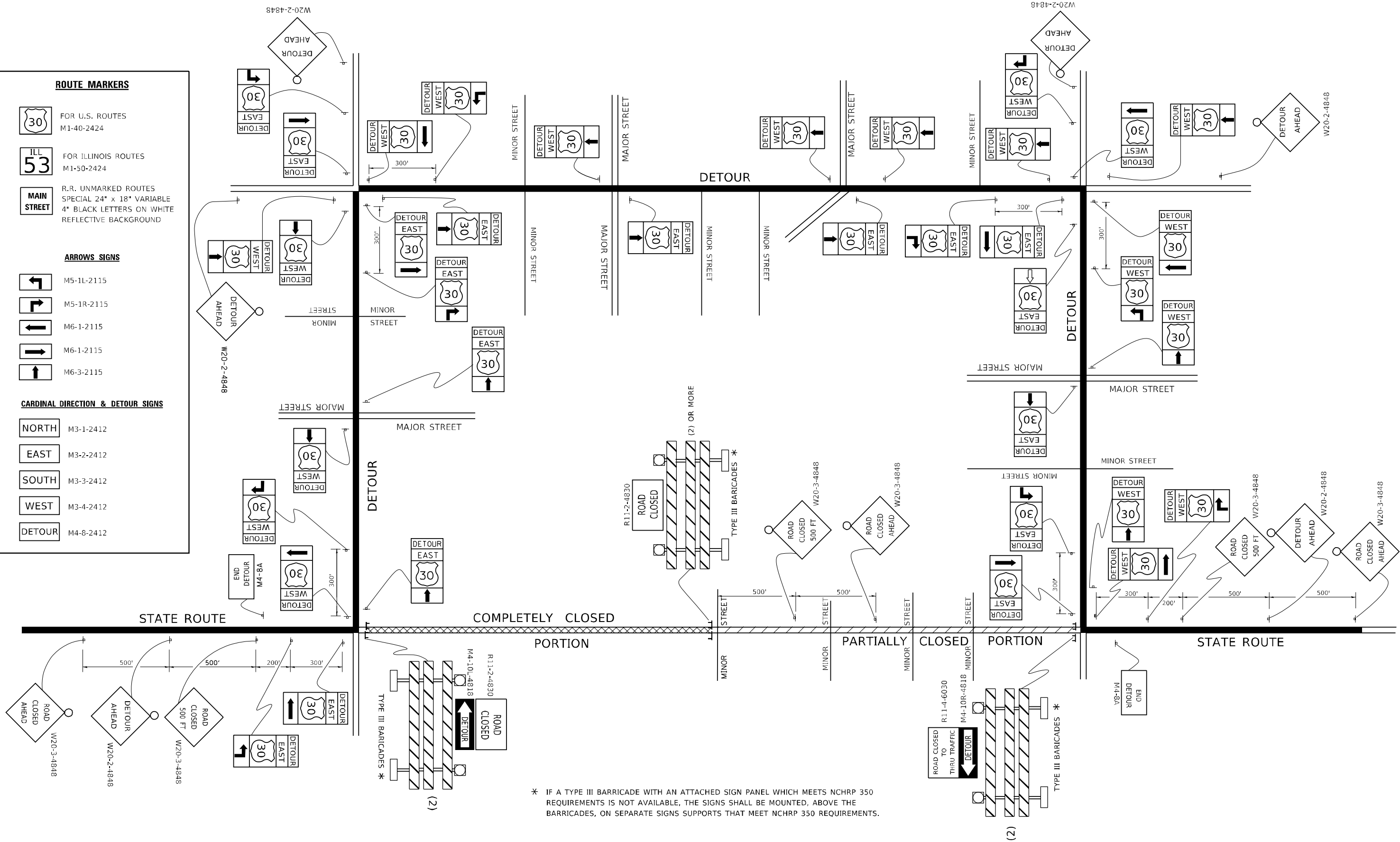
M3-3-2412

WEST

M3-4-2412

DETOUR

M4-8-2412



\* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

USER NAME = footemj	DESIGNED -	REVISED - 10-18-02
	DRAWN -	REVISED - R. BORO 09-14-09
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

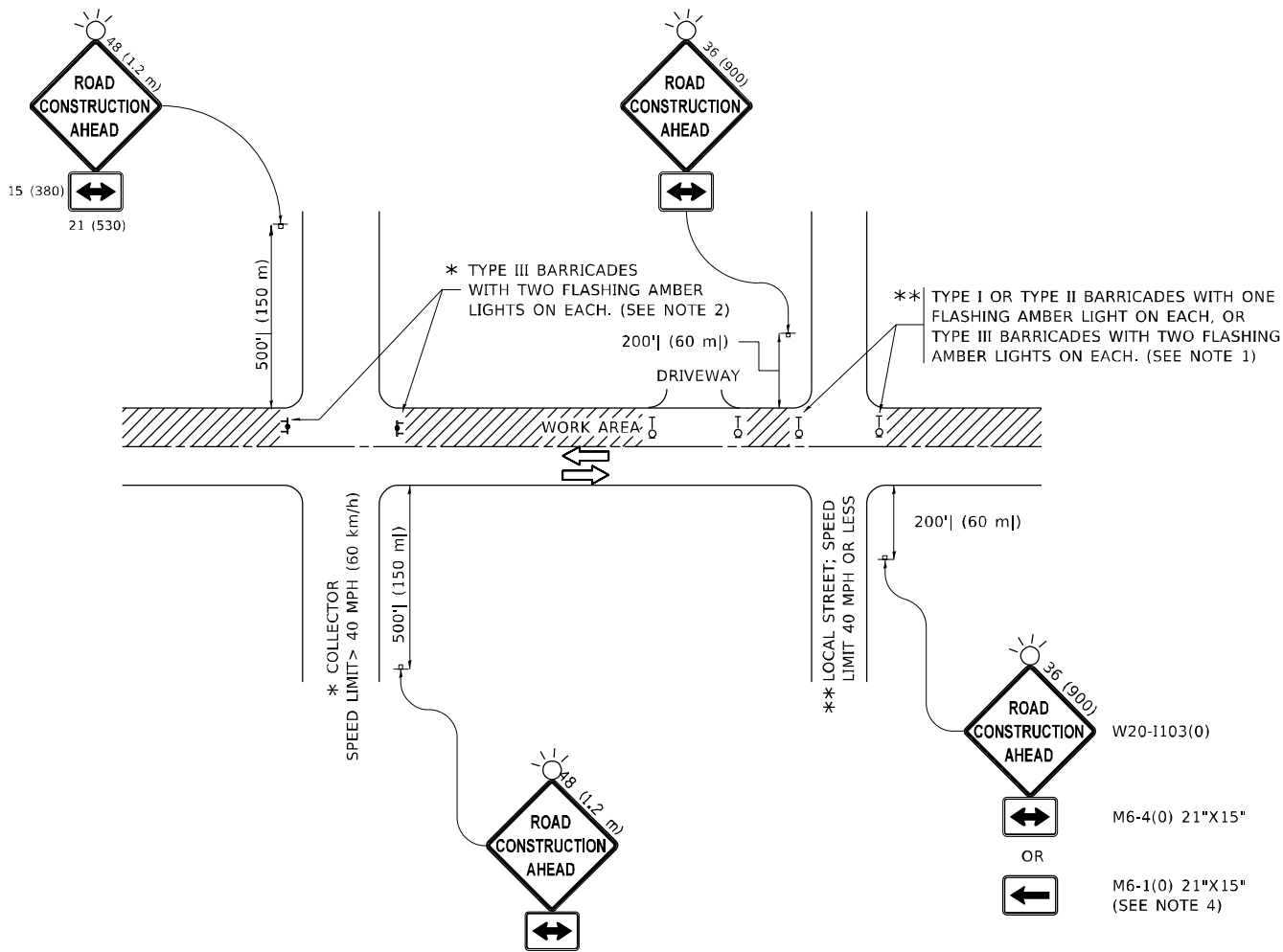
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETOUR SIGNING  
FOR CLOSING STATE HIGHWAYS

SCALE: NONE    SHEET 1 OF 1 SHEETS    STA.    TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(1981-082B-I) BR 24	WILL	30	28
	TC-21		CONTRACT NO. 62X93	
	ILLINOIS	FED. AID PROJECT		





NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. 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).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

	USER NAME = Lawrence,DeManche	DESIGNED - L.H.A.	REVISED - T. RAMMACHER 01-06-00	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - A. SCHUETZE 07-01-13						(1981-082B-1) BR 24	WILL	30	30	
	PLOT SCALE = 100.0000' / In.	CHECKED -	REVISED - A. SCHUETZE 09-15-16		TC-10		CONTRACT NO. 62X93						
	PLOT DATE = 5/3/2024	DATE - 06-89	REVISED - D. SENDERAK 05-03-24		SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS	FED. AID PROJECT				