

06-15-12 LETTING ITEM 199

FOR INDEX OF SHEETS SEE SHEET 2

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-I	COOK	44 *	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT ONE

PROPOSED HIGHWAY PLANS

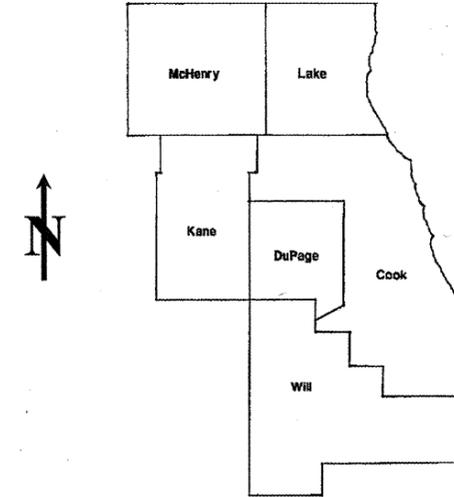
VARIOUS ROUTES
VARIOUS LOCATIONS
SECTION 2011-059-I
CONCRETE BARRIER WALL AND
BRIDGE PARAPET REPAIRS
COOK COUNTY
C-91- 614-11

IMPROVEMENTS ARE LOCATED IN THE
CITY OF CHICAGO AND
IN THE VILLAGES OF HILLSIDE & LINCOLNWOOD

PROJECT ENGINEER: ROBERT BORO (847) 705-4237
PROJECT MANAGER: ISSAM RAYYAN

CONTRACT NO. 60P77

CONTRACT NO. 60P77
* 44 + 1 = 45
D-91-614-11



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED: MARCH 29, 2012
Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 11 2012
John D. Baranzelli, P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT

May 11 2012
William R. Freyler
acting DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

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

C.U.A.N
CHICAGO UTILITY ALERT NETWORK
(312) 744-7000

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059- I	COOK	44	2

Contract 60P77

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ILLINOIS DEPARTMENT OF TRANSPORTATION

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Contract 60P77

STATE STANDARDS

<u>STD NO</u>	<u>DESCRIPTION</u>
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
637001-04	CONCRETE BARRIER 32" HEIGHT
637006-02	CONCRETE BARRIER 42" HEIGHT
701101-02	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701400-05	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-06	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-08	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701606-08	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701901-02	TRAFFIC CONTROL DEVICES

ILLINOIS DEPARTMENT OF TRANSPORTATION

STATE STANDARDS

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-1	COOK	44	4

Contract 60P77

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811. FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOURS NOTIFICATION IS REQUIRED.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "C.U.A.N." (CHICAGO UTILITY ALERT NETWORK) AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOURS NOTIFICATION IS REQUIRED.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS & CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION & ORDERING OF MATERIALS.

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

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 FOR ARTERIALS OR (847)705-4151 FOR EXPRESSWAYS A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF CHICAGO AND THE VILLAGES OF HILLSIDE & LINCOLNWOOD.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE..

THE "ARTERIAL ROAD INFORMATION SIGN (TC-22)" IS APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO EXPRESSWAYS.

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

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

WHEN EDGE OF BARRIER IS WITHIN 3 FT OF THE TRAFFIC LANE EDGE, REDUCE LANE TO 11 FT LANE WITH TYPE III TEMPORARY TAPE AND TAPER IN 45:1. COST OF THE TAPE AND ITS REMOVAL IS INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION".

FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURB, GUTTER, COMBINATION CURB & GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR CRC PAVEMENT, SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLANS.

THE CONTRACTOR SHALL REQUEST AN UNDERGROUND CABLE LOCATE FOR STATE OWNED ELECTRICAL FACILITIES WITH IN THEIR PROJECT LIMITS PRIOR TO START OF WORK.

IN SOME CASES, THERE IS A CONDUIT IN THE BASE OF THE BARRIER WALL AND BRIDGE PARAPET. THIS CONDUIT CONTAINS ELECTRICAL AND/OR FIBER OPTIC CABLE. CARE MUST BE TAKEN TO PREVENT DAMAGE TO THIS CONDUIT. IF IT IS DAMAGED, THE CONDUIT SHALL BE REPAIRED OR REPLACED. IF THE ELECTRICAL OR COPPER COMMUNICATIONS CABLE IS DAMAGED, IT SHALL BE REPLACED FROM JUNCTION BOX TO JUNCTION BOX (1500 FT. MIN.). IF THE FIBER OPTIC COMMUNICATIONS CABLE IS DAMAGED, IT SHALL BE REPLACED FROM EXISTING SPLICE ENCLOSURE TO EXISTING SPLICE ENCLOSURE OR TERMINATION POINT. FOR THE LOCATION OF THE CONDUITS, CONTACT ROY LAWSON AT THE ELECTRICAL FIELD OFFICE AT (708) 524-2145.

ANY CONDUIT RUSTED THRU, EXPOSED CABLES, PULL BOXES OR HANDHOLES FOR BRIDGE LIGHTING, TRAFFIC SIGNALS, COUNTERS, SURVEILLANCE EQUIPMENT FOUND IN DISREPAIR THE ENGINEER SHALL TAKE THE APPROPRIATE ACTION:

NO SAW CUTTING OR REMOVAL WILL BE MADE OR CONCRETE POURED UNTIL THE APPROPRIATE ACTION IS TAKEN TO RESOLVE EACH ISSUE;

ALL WORK REQUIRED TO REPAIR/REPLACE SIGNAL SURVEILLANCE OR LIGHTING ITEMS WILL BE DOCUMENTED BY THE ENGINEER AND THE BUREAU OF TRAFFIC WILL BE NOTIFIED.

LOC. 16: THE CONTRACTOR MUST COORDINATE CABLE REMOVAL AND INSTALLATION WITH ROY LAWSON AT THE ELECTRICAL FIELD OFFICE AT (708) 524-2145.

SHEET 1 OF 2

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-1	COOK	44	5

Contract 60P77

GENERAL NOTES (BRIDGE)

THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO INSURE THAT NO DEBRIS WILL ENDANGER OR INTERFERE WITH TRAFFIC ON THE ROADWAY BENEATH THE BRIDGE ACCORDING TO ARTICLE 107.09 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL NOT BE PAID FOR SEPERATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPROPRIATE PAYITEM INVOLVED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

PLAN DIMENTIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENTIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENT 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 DESIGNATED (E) SHALL BE EPOXY COATED.

JOINTS ARE TO BE INSTALLED TO MATCH EXISTING.

IF A GAP IN THE PARAPET IS TO OCCUR FOR ANY PERIOD OF TIME, A TEMPORARY RAILING MUST BE INSTALLED SO THAT AT NO TIME SHALL THERE BE AN OPENING IN ANY PORTION OF THE EXISTING SYSTEM. IF THE GAP IS IN A BARRIER WALL SECTION, TEMPORARY RAILING OR BARRELS SHALL BE USED AT THE DISCRETION OF THE ENGINEER.

THE CONTRACTOR SHALL SALVAGE AND RETURN THE EXISTING GUARDRAIL TO:

DISTRICT BRIDGE OFFICE
1101 BIESTERFIELD RD.
ELK GROVE VILLAGE, IL 60007

THIS WORK SHALL INCLUDE REMOVING, TRANSPORTING AND UNLOADING THE EXISTING CARRIER GUARDRAIL TO THE ABOVE YARD WHICH COST IS INCLUDED IN THE COST OF "CONCRETE REMOVAL".

SHEET 2 OF 2

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-I	COOK	44	6

Contract 60P77

SUMMARY OF QUANTITIES						
				URBAN 100% STATE	CONSTRUCTION TYPE CODE 0040	
Code No	Description	Unit	Total Quantities	0021		
20200100	EARTH EXCAVATION	CU YD	15	15		
20700220	POROUS GRANULAR EMBANKMENT	CU YD	0.6	0.6		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	29	29		
25000210	SEEDING, CLASS 2A	ACRE	0.01	0.01		
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	22	22		
42001300	PROTECTIVE COAT	SQ YD	166	166		
44213200	SAW CUTS	FOOT	201	201		
44213202	TIE BARS 1"	EACH	248	248		
50102400	CONCRETE REMOVAL	CU YD	37	37		
50300225	CONCRETE STRUCTURES	CU YD	35.4	35.4		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	3.5	3.5		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	540	540		

SHEET 1 OF 2

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SUMMARY OF QUANTITIES
 Rev.

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-I	COOK	44	6A

Contract 60P77

SUMMARY OF QUANTITIES

				URBAN 100% STATE CONSTRUCTION TYPE CODE 0040		
Code No	Description	Unit	Total Quantities	0021		
50800530	MECHANICAL SPLICERS	EACH	62	62		
66400105	CHAIN LINK FENCE, 4'	FOOT	24	24		
67100100	MOBILIZATION	L SUM	1	1		
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1		
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1		
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1		
* 72000100	SIGN PANEL - TYPE 1	SQ FT	5	5		
* 87301125	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 12 3C	FOOT	40	40		
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1		
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	205.6	205.6		
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1		

SHEET 2 OF 2

ILLINOIS DEPARTMENT OF TRANSPORTATION

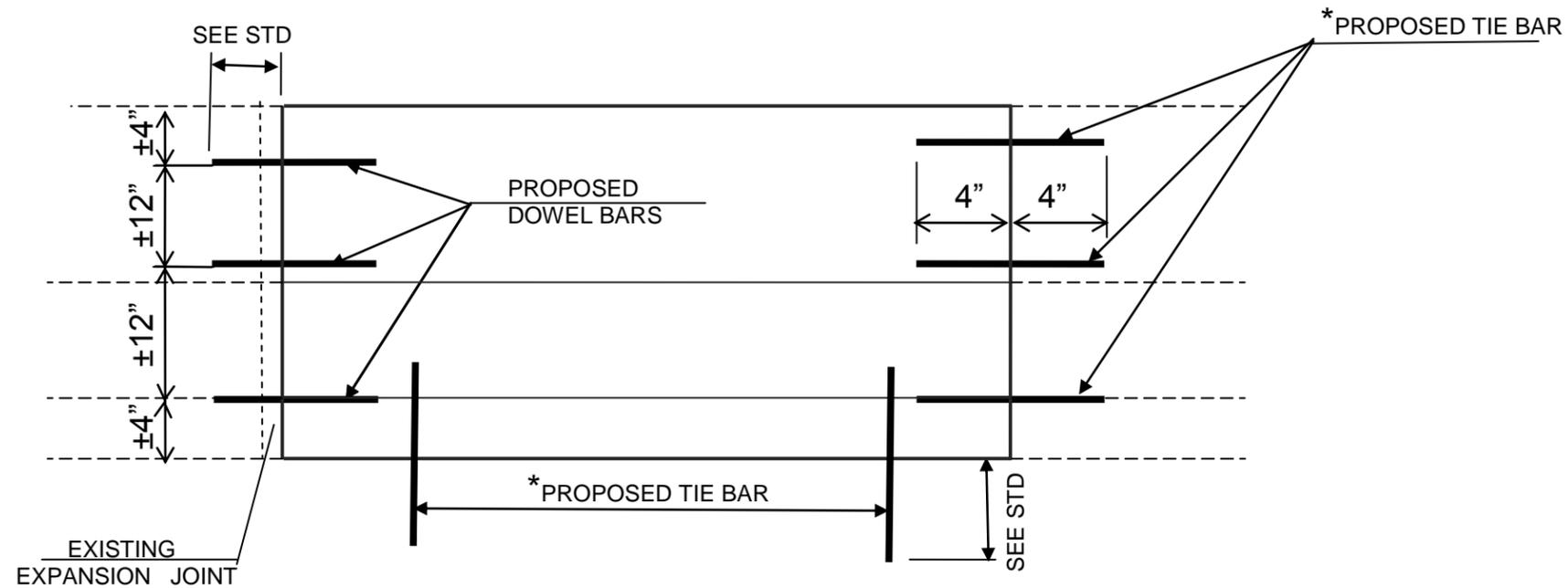
SUMMARY OF QUANTITIES

Rev.

*Specialty Items

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-I	COOK	44	8

Contract 60P77



FULL DEPTH REPAIR

NOTE:

ALL BARRIER WALL REPAIR SHALL BE COMPLETED IN ACCORDANCE WITH STATE STANDARDS 637001 AND 637006 AND SECTION 637 OF THE STANDARD SPECIFICATIONS AND AS SHOWN ON THE PLANS. ALL PROPOSED DOWEL BARS AND TIE BARS SHALL BE DRILLED AND GROUTED IN PLACE. REINFORCEMENT SHALL BE INCLUDED AS SHOWN IN STANDARDS 637001 AND 637006 AND DESCRIBED IN SECTION 637 OF THE STANDARD SPECIFICATIONS EXCEPT WHEN A REINFORCEMENT CAGE IS ENCOUNTERED. IN SUCH A CASE, THE CONTRACTOR SHALL REMOVE THE DAMAGED PORTIONS OF THE CAGE AND SHALL REPLACE IT WITH BARS OF THE SAME SIZE AND SPACING. THE SCOPE OF REPAIR AT EACH LOCATION SHALL BE AS SHOWN ON THE PLANS AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

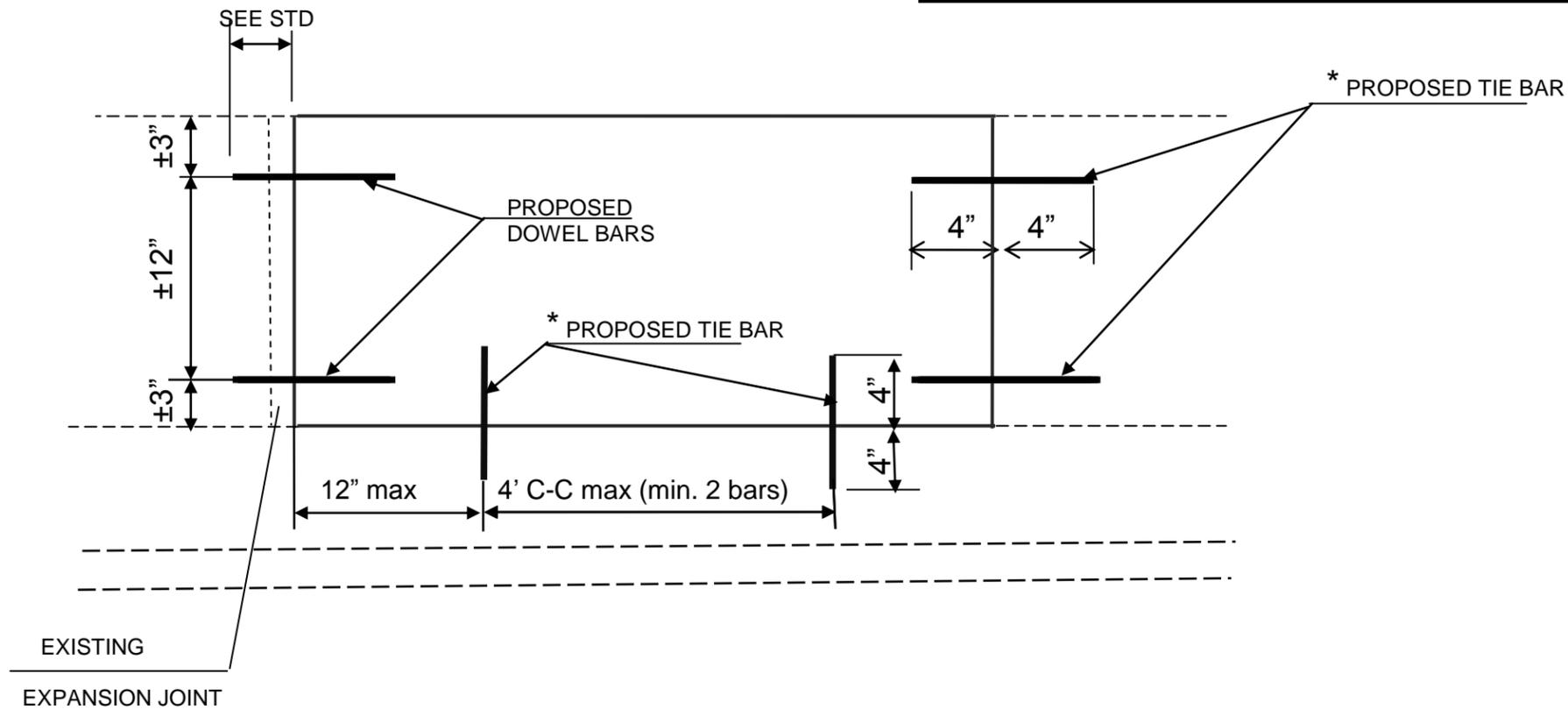
*USE #8 EPOXY-COATED TIE BARS, CONFORMING TO ART. 1006.10 OF THE STANDARD SPECIFICATIONS, FOR ALL TIE BARS.

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL REPAIR FOR
FULL DEPTH (BARRIER WALL)

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-I	COOK	44	9

Contract 60P77



HALF DEPTH REPAIR

NOTE:

ALL BARRIER WALL REPAIR SHALL BE COMPLETED IN ACCORDANCE WITH STATE STANDARDS 637001 AND 637006 AND SECTION 637 OF THE STANDARD SPECIFICATIONS AND AS SHOWN ON THE PLANS. ALL PROPOSED DOWEL BARS AND TIE BARS SHALL BE DRILLED AND GROUTED IN PLACE. REINFORCEMENT SHALL BE INCLUDED AS SHOWN IN STANDARDS 637001 AND 637006 AND DESCRIBED IN SECTION 637 OF THE STANDARD SPECIFICATIONS EXCEPT WHEN A REINFORCEMENT CAGE IS ENCOUNTERED. IN SUCH A CASE, THE CONTRACTOR SHALL REMOVE THE DAMAGED PORTIONS OF THE CAGE AND SHALL REPLACE IT WITH BARS OF THE SAME SIZE AND SPACING. THE SCOPE OF REPAIR AT EACH LOCATION SHALL BE AS SHOWN ON THE PLANS AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

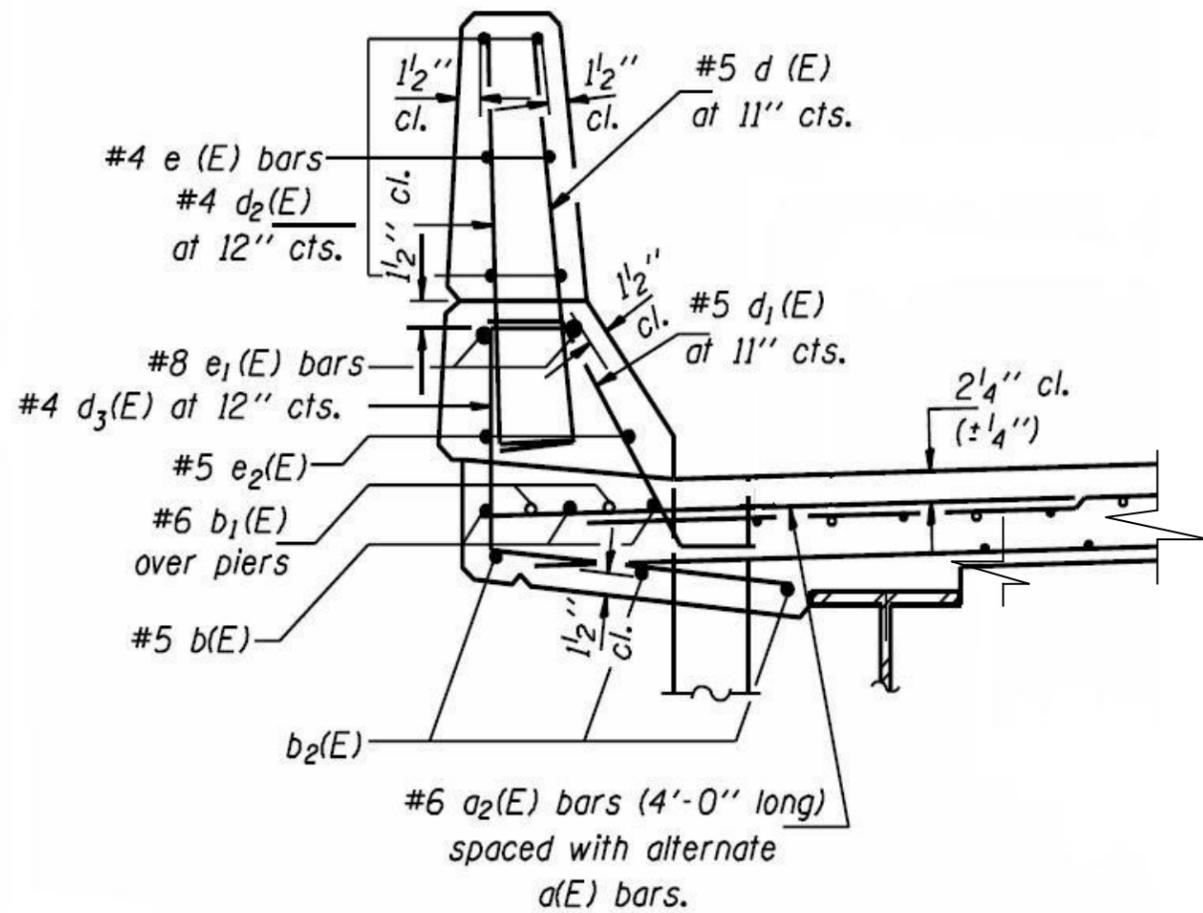
* USE #8 EPOXY-COATED TIE BARS, CONFORMING TO ART. 1006.10 OF THE STANDARD SPECIFICATIONS, FOR ALL TIE BARS.

ILLINOIS DEPARTMENT OF TRANSPORTATION

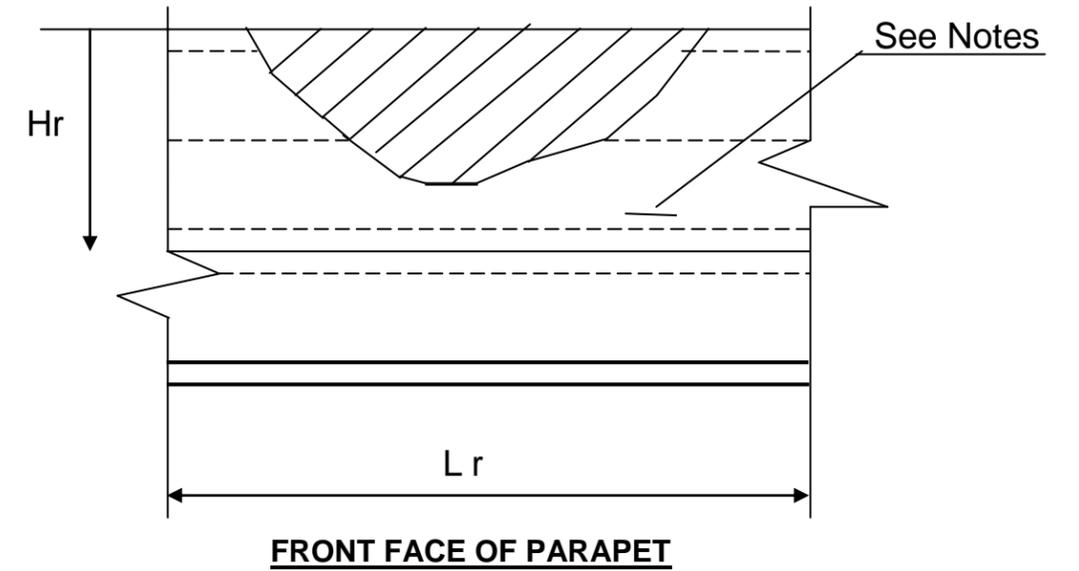
TYPICAL REPAIR FOR
HALF DEPTH (BARRIER WALL)

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-I	COOK	44	10

Contract 60P77



SECTION THRU PARAPET



FRONT FACE OF PARAPET

Hr and Lr indicate dimensions for concrete removal. Perimeters of concrete removal areas shall be saw cut $\frac{3}{4}$ " prior to removal of concrete.

NOTES:

Concrete removal shall extend a minimum of 6" past damage or to joint if within 2'-0".

Existing bars to be cleaned, straightened and incorporated in new construction.

If existing vertical rebar is missing, bars d(E) and d2(E) shall be straightened and epoxy grouted into existing concrete 9" deep. Cost shall be included in "Concrete Removal"

Bars to be epoxy grouted according to Art.584 of the Standard Specifications.

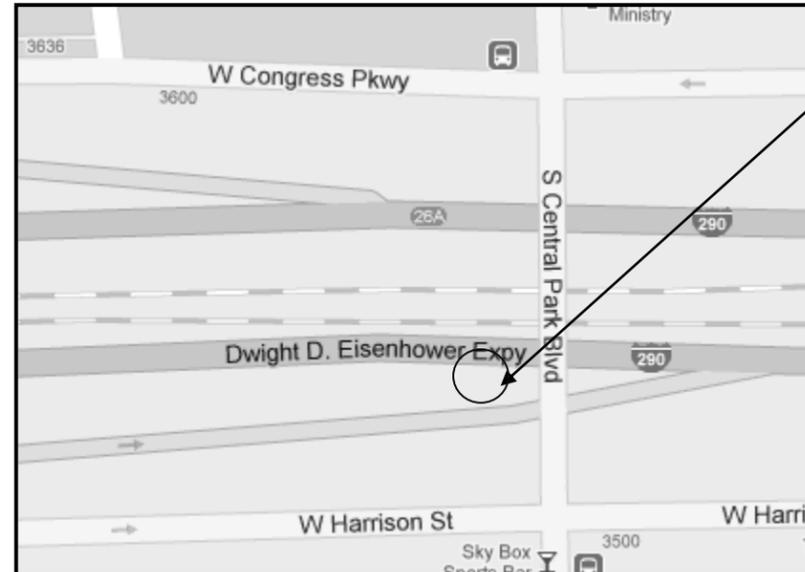
ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL BRIDGE PARAPET
REPAIR DETAILS

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-I	VARIOUS	44	11

Contract 60P77

R 13 E

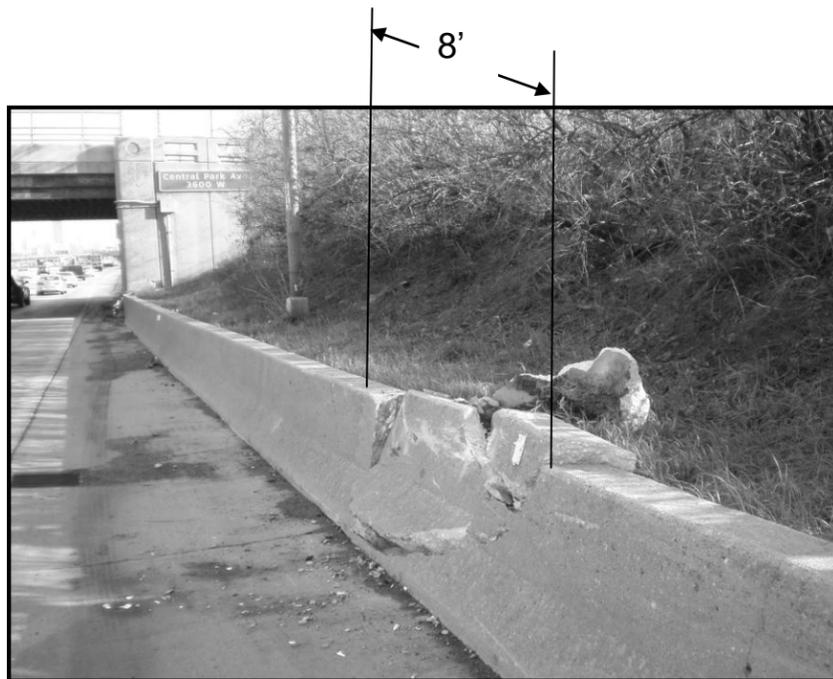
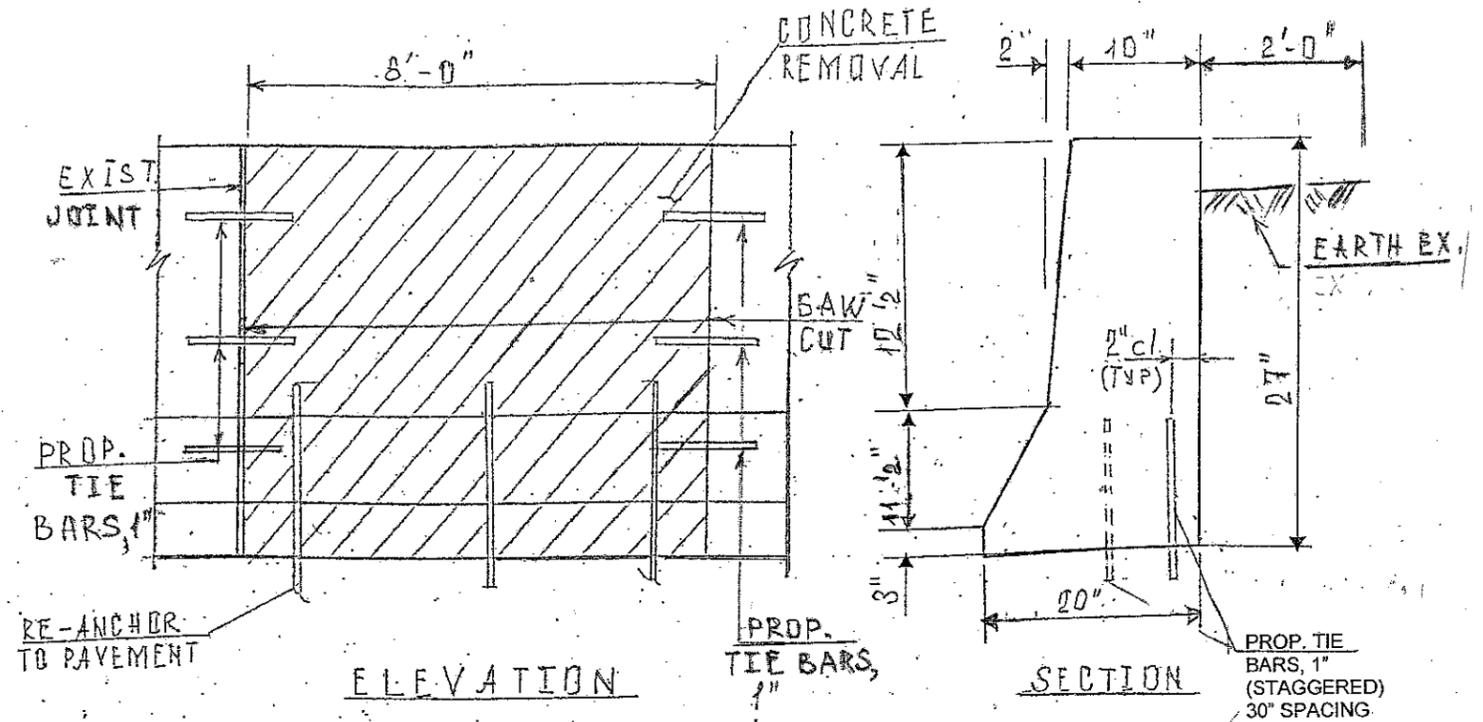


LOCATION 1: I-290 (EISENHOWER EXPY) EB
AT THE CENTRAL PARK AVE, RIGHT SIDE

T 39 N



CITY OF CHICAGO
WEST CHICAGO TOWNSHIP
COOK COUNTY



FULL DEPTH REPAIR
REPLACE 8 FT OF BARRIER WALL
FOR MORE DETAILS SEE SHEET # 8

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU YD	0.8
CONCRETE STRUCTURE	CU YD	0.8
TIE BARS	EACH	10
SAW CUTS	FOOT	4.5
EARTH EXCAVATION	CU YD	1.5
TEMPORARY EROSION CONTROL BLANKET	SQ YD	2.0
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2.0
SEEDING CLASS 2A	ACRE	0.0004
PROTECTIVE COAT	SQ YD	3.0

TRAFFIC DATA:

I-290: SPEED LIMIT = 55 MPH
2009 ADT = 207800

ILLINOIS DEPARTMENT OF TRANSPORTATION
LOCATION: 1
I-290 (EISENHOWER EXPY)

R 12 E

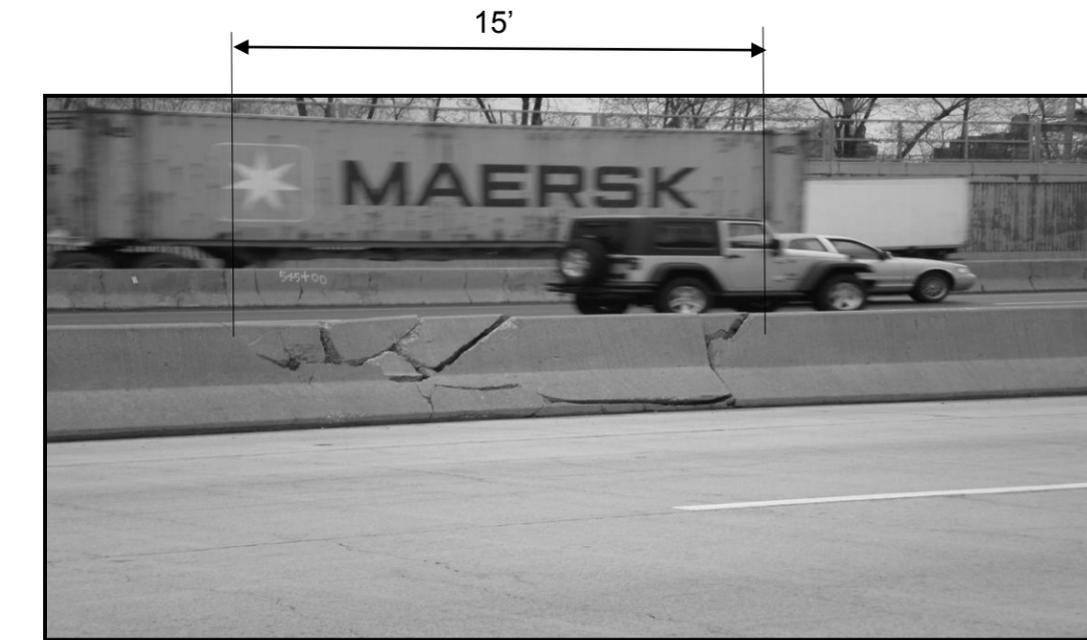
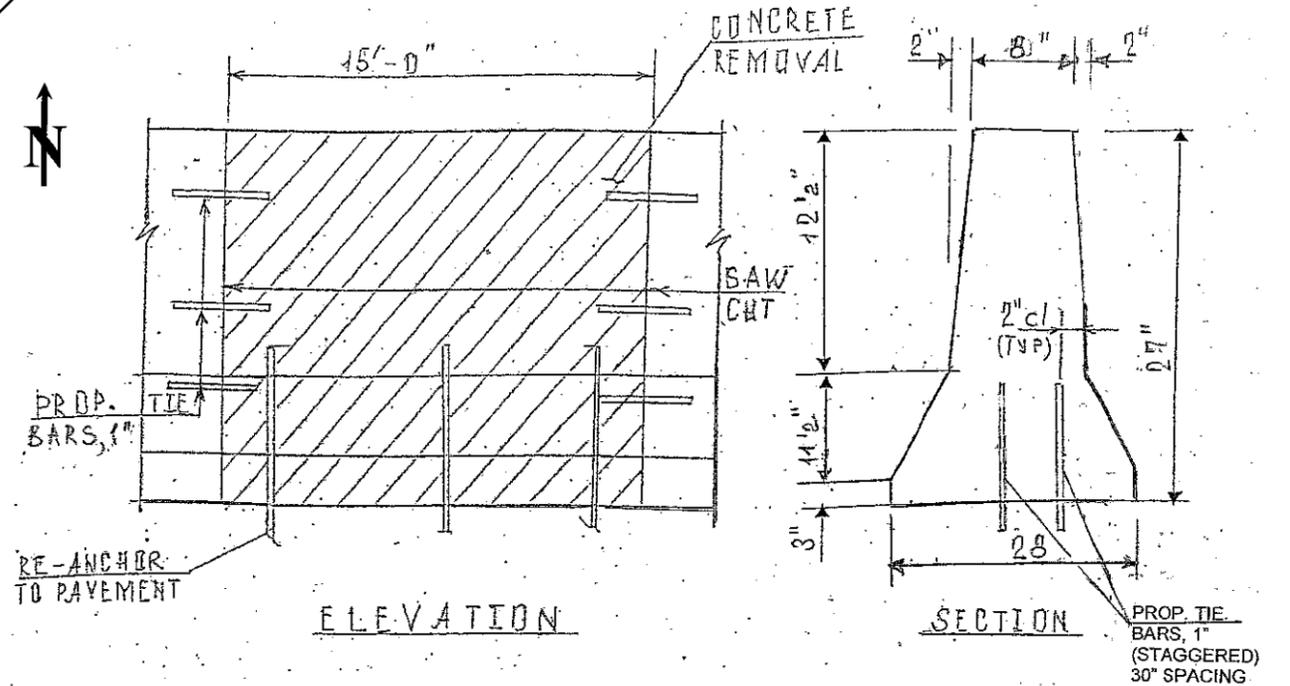
ROUTE VARIOUS	SECTION 2011-059-I	COUNTY VARIOUS	TOTAL SHEETS 44	SHEET NUMBER 12
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Contract 60P77



VILLAGE OF HILLSIDE
PROVISO TOWNSHIP
COOK COUNTY

**LOCATION 2: I-290 (EISENHOWER EXPY), EB
EAST OF WOLF RD, LEFT SIDE.**



FULL DEPTH REPAIR
REPLACE 15' OF BARRIER WALL
FOR MORE DETAILS SEE SHEET #8

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU YD	1.7
CONCRETE STRUCTURE	CU YD	1.7
TIE BARS	EACH	17
SAW CUTS	FOOT	4.5
PROTECTIVE COAT	SQ YD	9.5

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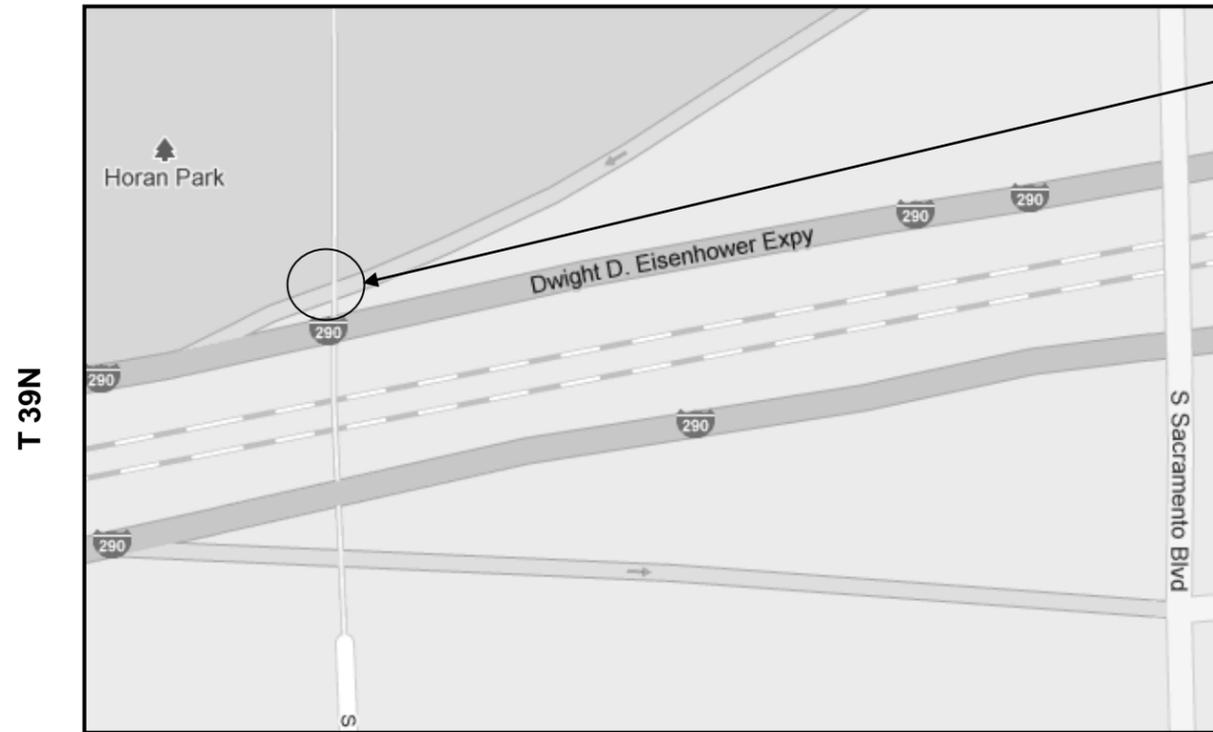
I-290: SPEED LIMIT = 55 MPH
2009 ADT = 202700

ILLINOIS DEPARTMENT OF TRANSPORTATION
**LOCATION: 2
I-290 (EISENHOWER EXPY)**

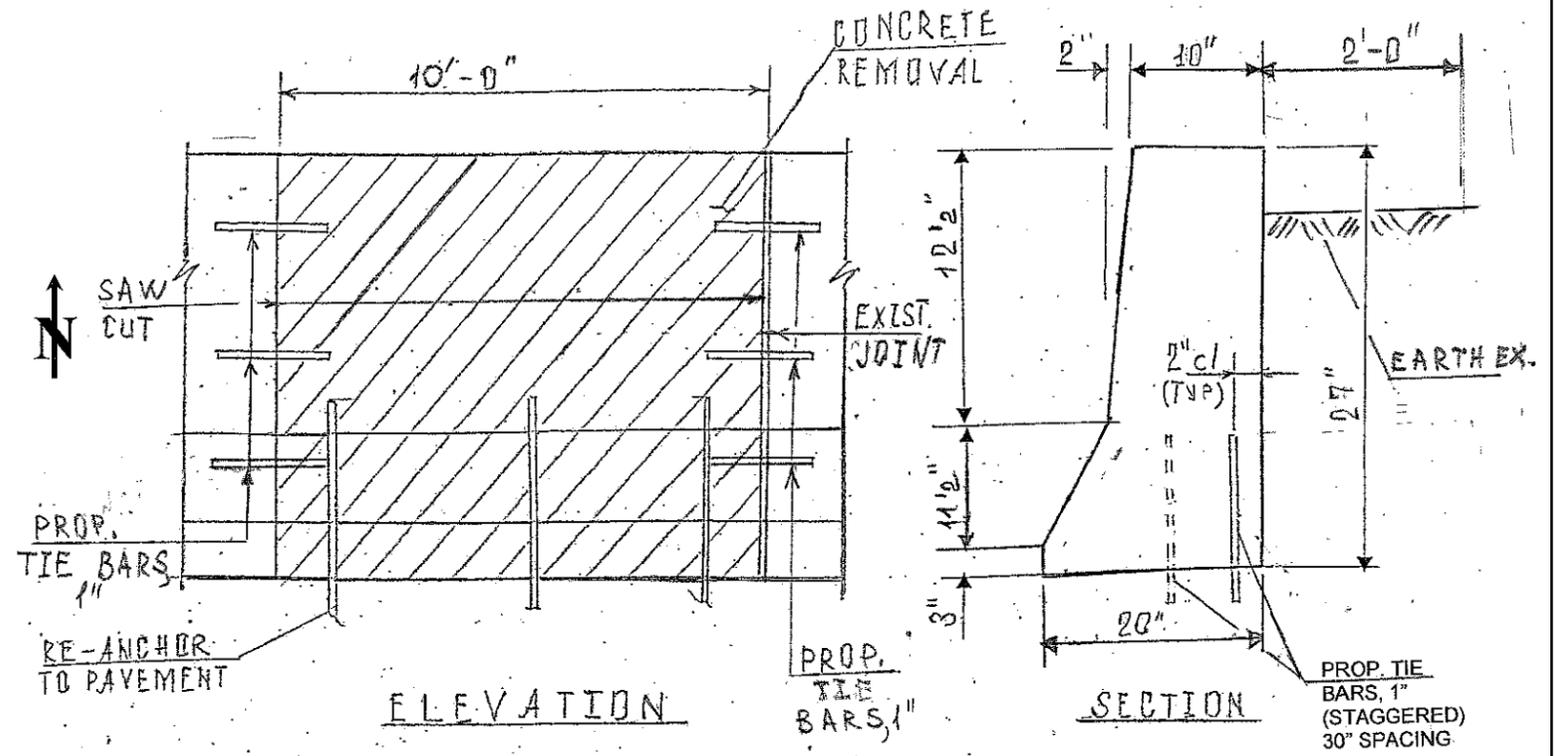
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-I	VARIOUS	44	13

Contract 60P77

R 13 E



LOCATION 3: I-290 (EISENHOWER EXPY)
 AT SACRAMENTO BLVD ENTRANCE RAMP
 TO WB I-290 RIGHT SIDE



CITY OF CHICAGO
 WEST CHICAGO TOWNSHIP
 COOK COUNTY

10'



FULL DEPTH BARRIER REPAIR
 REPLACE 10 FT OF BARRIER WALL
 FOR MORE DETAILS SEE SHEET # 8

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU YD	1.0
CONCRETE STRUCTURE	CU YD	1.0
TIE BARS	EACH	10
SAW CUTS	FOOT	4.5
EARTH EXCAVATION	CU YD	1.3
TEMPORARY EROSION CONTROL BLANKET	SQ YD	2.5
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2.5
SEEDING CLASS 2A	ACRE	0.0005
PROTECTIVE COAT	SQ YD	3.7

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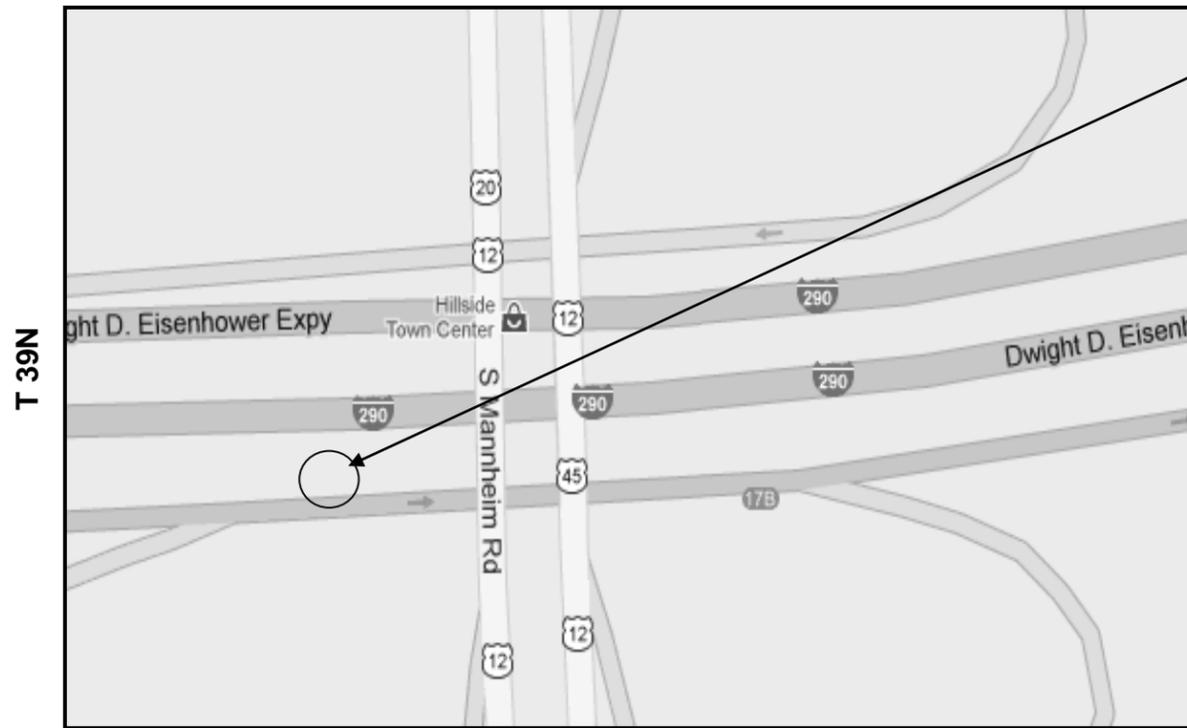
I-90: SPEED LIMIT = 55 MPH
 2008 ADT = 261600

ILLINOIS DEPARTMENT OF TRANSPORTATION
 LOCATION: 3
 I-290 (EISENHOWER EXPY)
 AT SACRAMENTO BLVD

R 12 E

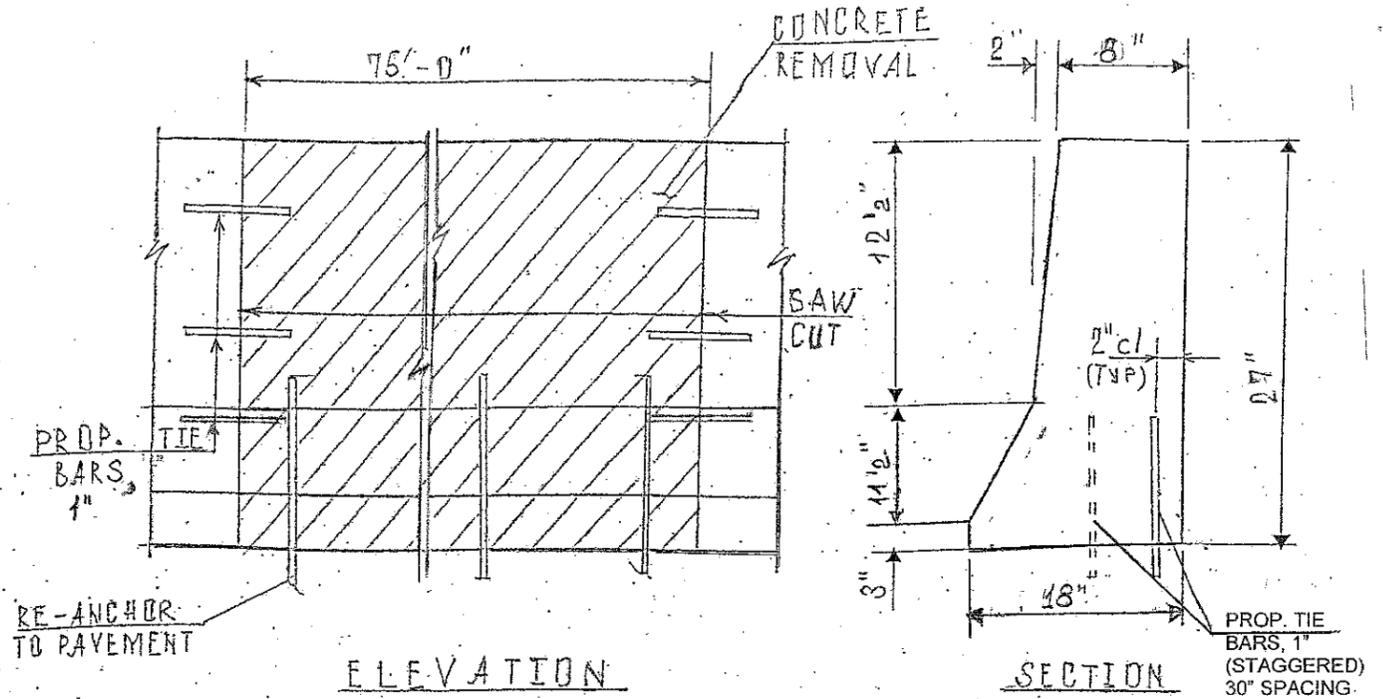
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-I	VARIOUS	44	14

Contract 60P77



LOCATION 4: I-290 (ESENHOWER EXPY) EB
 WEST OF MANNHEIM RD, LEFT SIDE BETWEEN
 COLLECTOR-DISTRIBUTOR & MAINLINE

VILLAGE OF HILLSIDE
 PROVISO TOWNSHIP
 COOK COUNTY



FULL DEPTH REPAIR
 REPLACE 75' OF BARRIER WALL
 FOR MORE DETAILS SEE SHEET #8

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU YD	6.3
CONCRETE STRUCTURE	CU YD	6.3
TIE BARS	EACH	36
SAW CUTS	FOOT	4.8
PROTECTIVE COAT	SQ YD	26.6

TRAFFIC DATA:

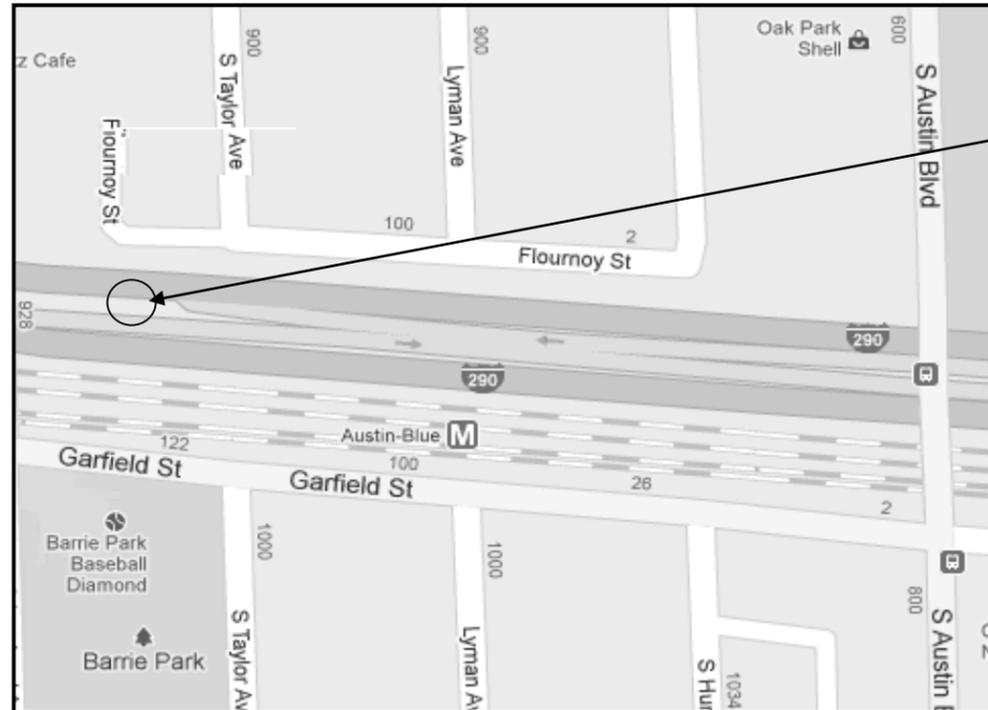
I-290: SPEED LIMIT = 55 MPH
 2009 ADT = 220100
 MANNHEIM RD: SPEED LIMIT = 30 MPH
 2009 ADT = 35000

ILLINOIS DEPARTMENT OF TRANSPORTATION

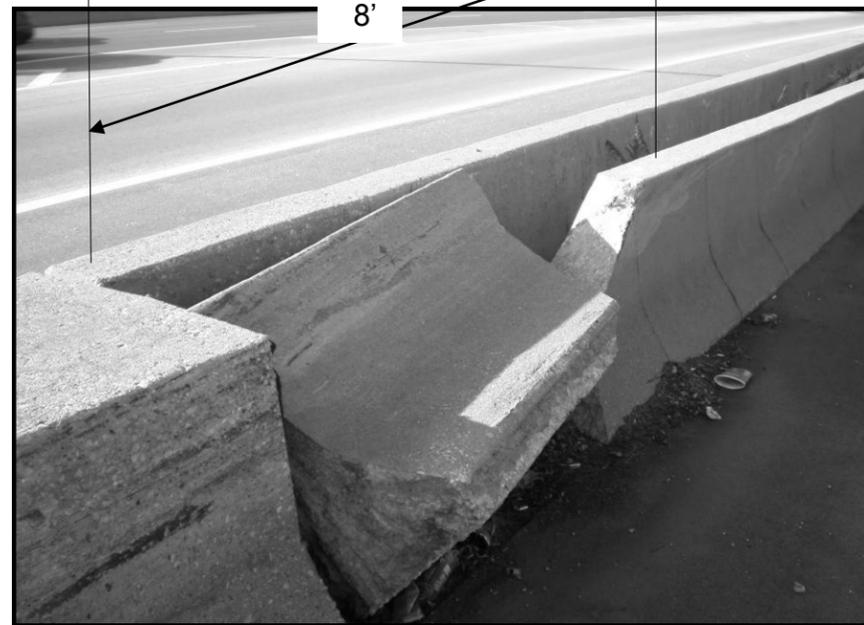
LOCATION: 4
I-290 (ESENHOWER EXPY)
WEST OF MANNHEIM RD

R 13 E

T 39 N



CITY OF CHICAGO
CICERO TOWNSHIP
COOK COUNTY

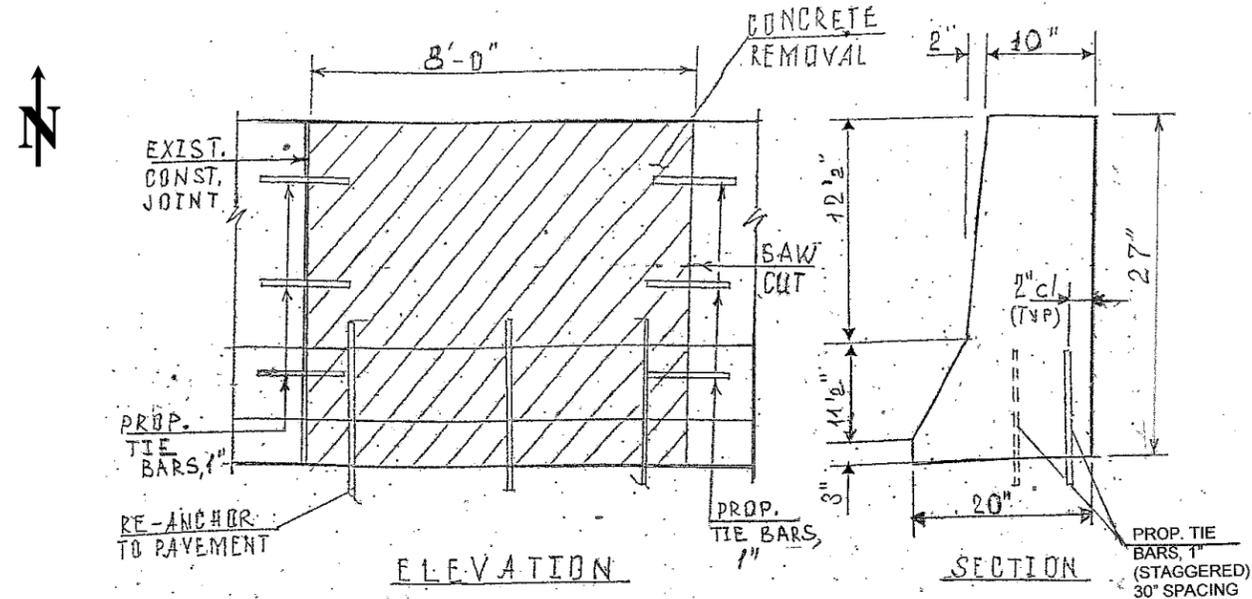


FULL DEPTH REPAIR
REPLACE 8 FT OF BARRIER WALL
FOR MORE DETAILS SEE SHEET # 8

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-I	VARIOUS	44	15

Contract 60P77

LOCATION 5: I-290 (EISENHOWER EXPY) WB
OFF AUSTIN BLVD AT BOTTOM OF ENTRANCE RAMP
TO I-290 WB, LEFT SIDE



BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU YD	0.8
CONCRETE STRUCTURE	CU YD	0.8
TIE BARS	EACH	10
SAW CUTS	FOOT	4.5
PROTECTIVE COAT	SQ YD	3.0

TRAFFIC DATA:

I-290: SPEED LIMIT = 55 MPH
2009 ADT = 210200
AUSTIN BLVD: SPEED LIMIT = 30 MPH
2010 ADT = 20200

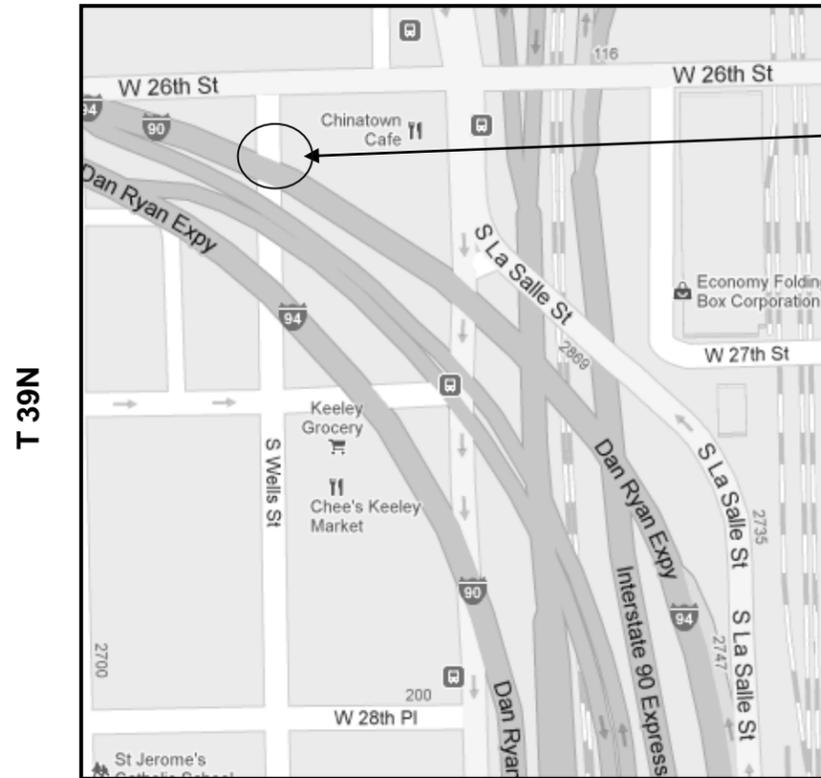
ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION: 5
I-290 (EISENHOWER EXPY)
AT AUSTIN BLVD

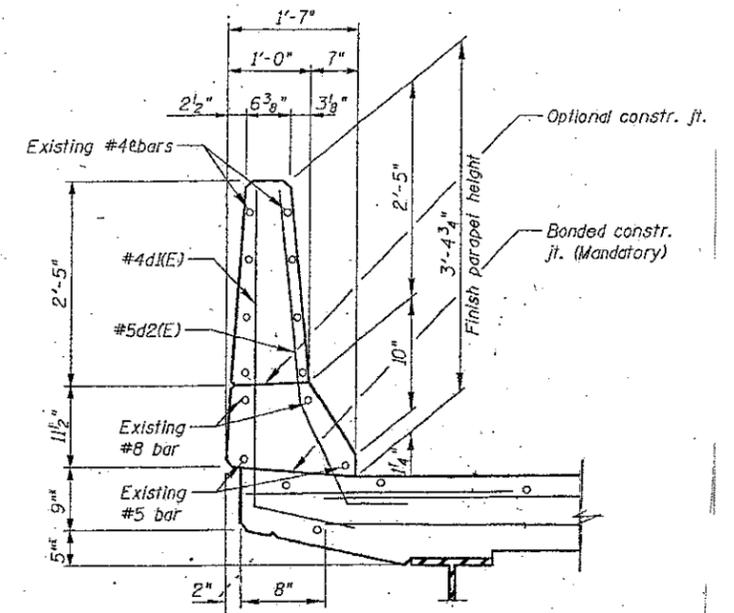
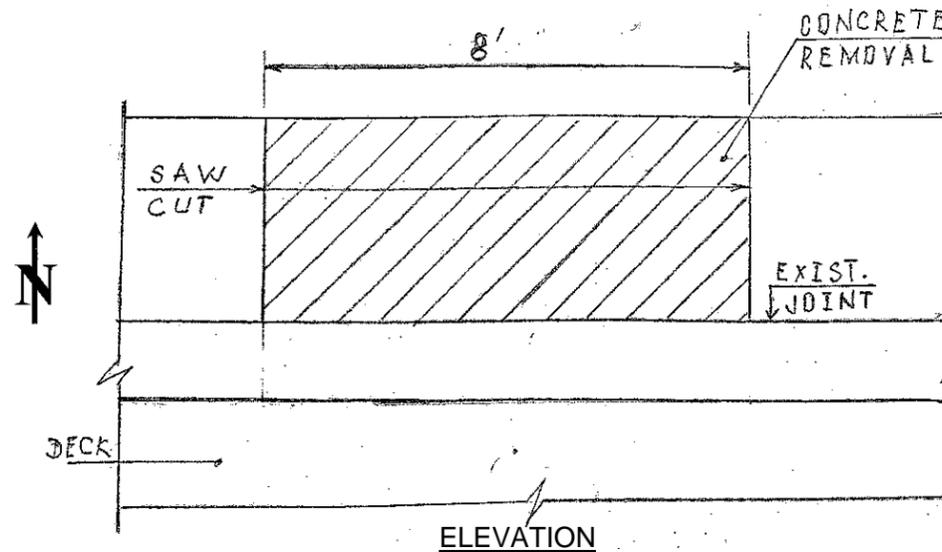
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-I	VARIOUS	44	16

Contract 60P77

**LOCATION 6: I-90/94 (DAN RYAN EXPY) WB
OVER WELLS TO 29th PLACE. SN 016-1118**



**CITY OF CHICAGO
SOUTH CHICAGO TOWNSHIP
COOK COUNTY**

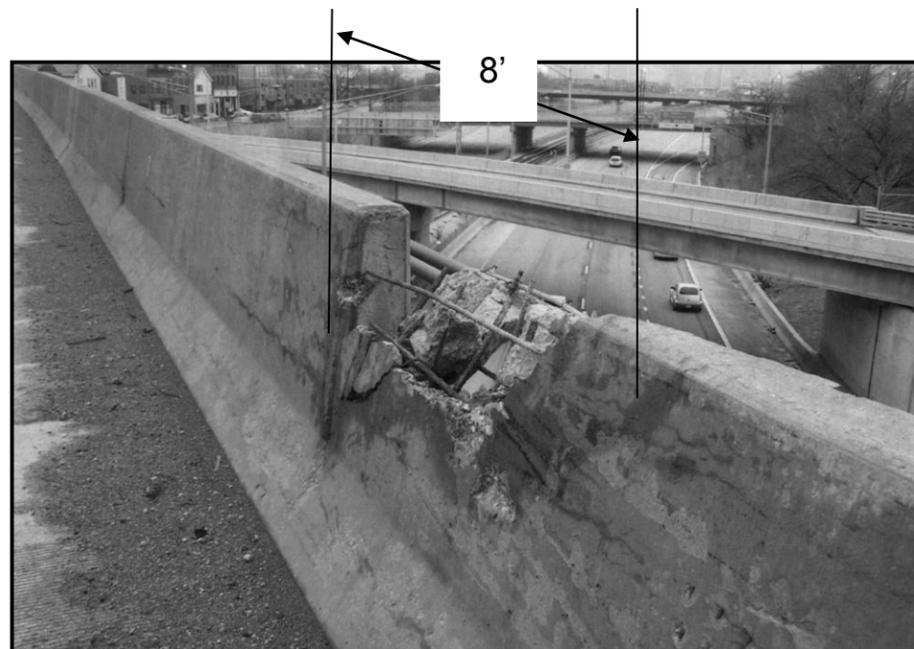


SECTION THRU PARAPET

BILL OF MATERIALS

BAR	NO	SIZE	LENGTH	SHAPE
e(E)	8	#4	7'-10"	—
d1(E)	8	#4	3'-0"	—
d2(E)	9	#5	3'-0"	—
REINFORCEMENT BARS EPOXY COATED			LBS	90
CONCRETE SUPERSTRUCTURE			CU YD	0.6
CONCRETE REMOVAL			CU YD	0.6
MECHANICAL SPLICERS			EACH	16
SAW CUTS			FOOT	13.0
PROTECTIVE COAT			SQ YD	4.0

THE BAR LENGTH SHALL BE VERIFIED IN FIELD PRIOR TO ORDERING THE REINFORCEMENT.



BRIDGE PARAPET REPAIR
FOR MORE DETAILS SEE SHEET # 10

TRAFFIC DATA:

I-90/94: SPEED LIMIT = 55 MPH
2009 ADT = 208100
WELLS ST: SPEED LIMIT = 20MPH

Designer: A. Gorengaut
Checker: J. Midy

ILLINOIS DEPARTMENT OF TRANSPORTATION

**LOCATION: 6
I-90/94 (DAN RYAN EXPY)
OVER WELLS STREET
SN 016-1118**

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-059-I	VARIOUS	44	17

Contract 60P77

R 14 E

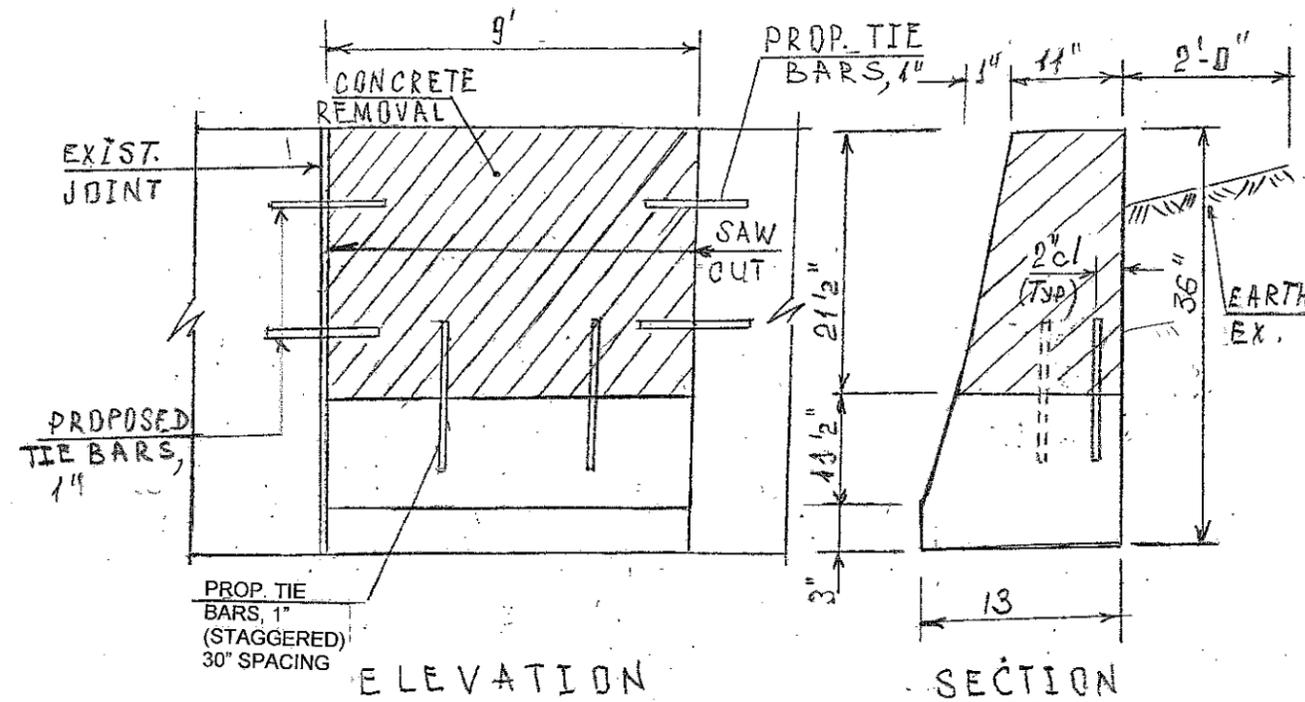


LOCATION 7: CHINATOWN FEEDER NB
(FRANKLIN ST CONNECTOR)
LEFT SIDE AT 23rd ST IN CURVE

T 39N



CITY OF CHICAGO
WEST TOWNSHIP
COOK COUNTY



14'-9 1/2"



PARTIAL DEPTH BARRIER REPAIR
FOR MORE DETAILS SEE SHEET # 9

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU YD	0.6
CONCRETE STRUCTURE	CU YD	0.6
TIE BARS	EACH	8
SAW CUTS	FOOT	13.0
EARTH EXCAVATION	CU YD	1.4
TEMPORARY EROSION CONTROL BLANKET	SQ YD	2.0
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2.0
SEEDING CLASS 2A	ACRE	0.0004
PROTECTIVE COAT	SQ YD	3.0

TRAFFIC DATA:

I-90/94: SPEED LIMIT = 55 MPH
2009 ADT = 201400
CHINATOWN FEEDER: SPEED LIMIT = 30 MPH
2002 ADT = 4600

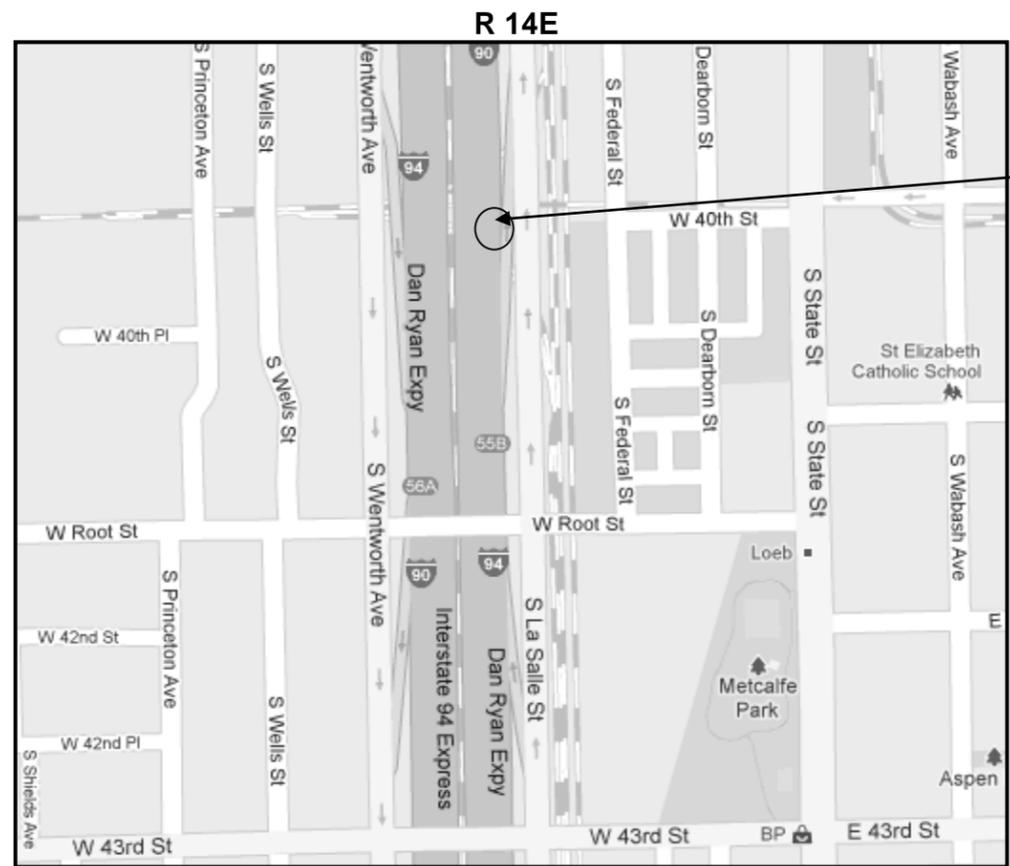
ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION: 7
I-90/94 (DAN RYAN EXPY)
CHINATOWN FEEDER

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-059-1	VARIOUS	44	18

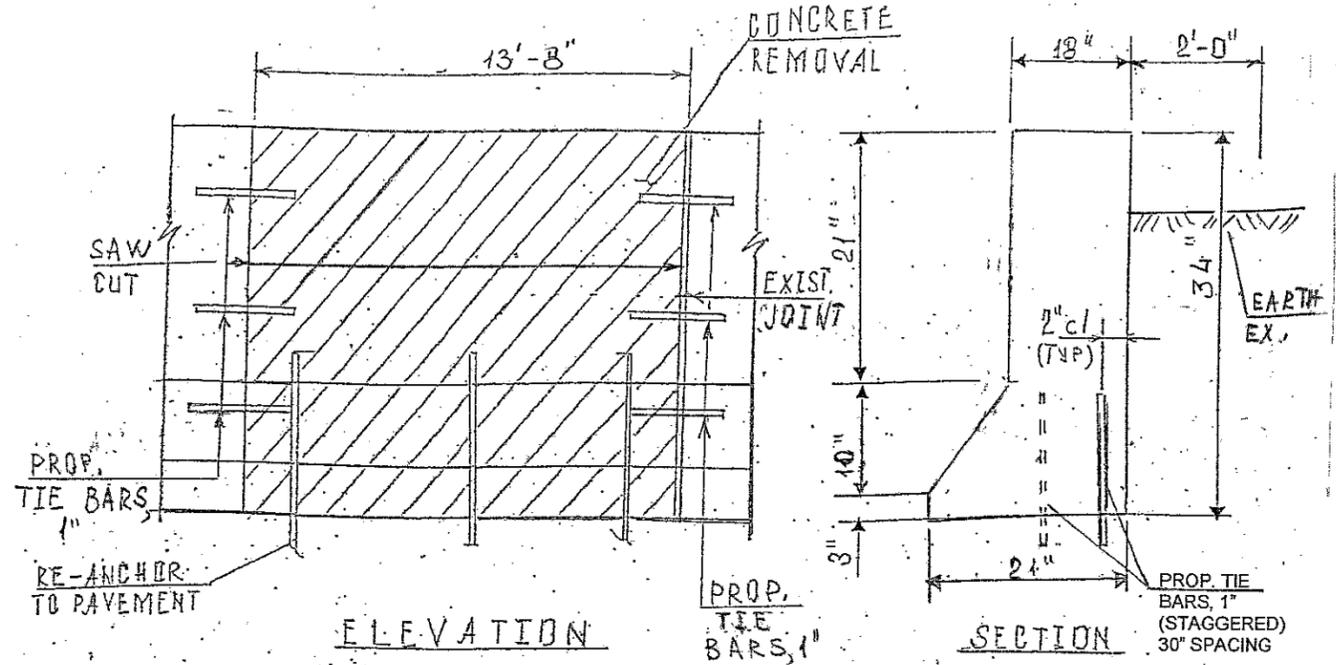
Contract 60P77

T 38N



LOCATION 8: I-90/94 (DAN RYAN EXPY) WB LOCALS, 0.4 MILES NORTH OF 43rd ST, RIGHT SIDE

**CITY OF CHICAGO
LAKE TOWNSHIP
COOK COUNTY**



13'-8"



FULL DEPTH REPAIR
REPLACE 13'-8" OF BARRIER WALL
FOR MORE DETAILS SEE SHEET #8

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU YD	2.3
CONCRETE STRUCTURE	CU YD	2.3
TIE BARS	EACH	12
SAW CUTS	FOOT	6.0
EARTH EXCAVATION	CU YD	2.0
TEMPORARY EROSION CONTROL BLANKET	SQ YD	3.0
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	3.0
SEEDING CLASS 2A	ACRE	0.0006
PROTECTIVE COAT	SQ YD	6.7

TRAFFIC DATA:

I-90/94: SPEED LIMIT = 55 MPH
2009 ADT = 261900

ILLINOIS DEPARTMENT OF TRANSPORTATION

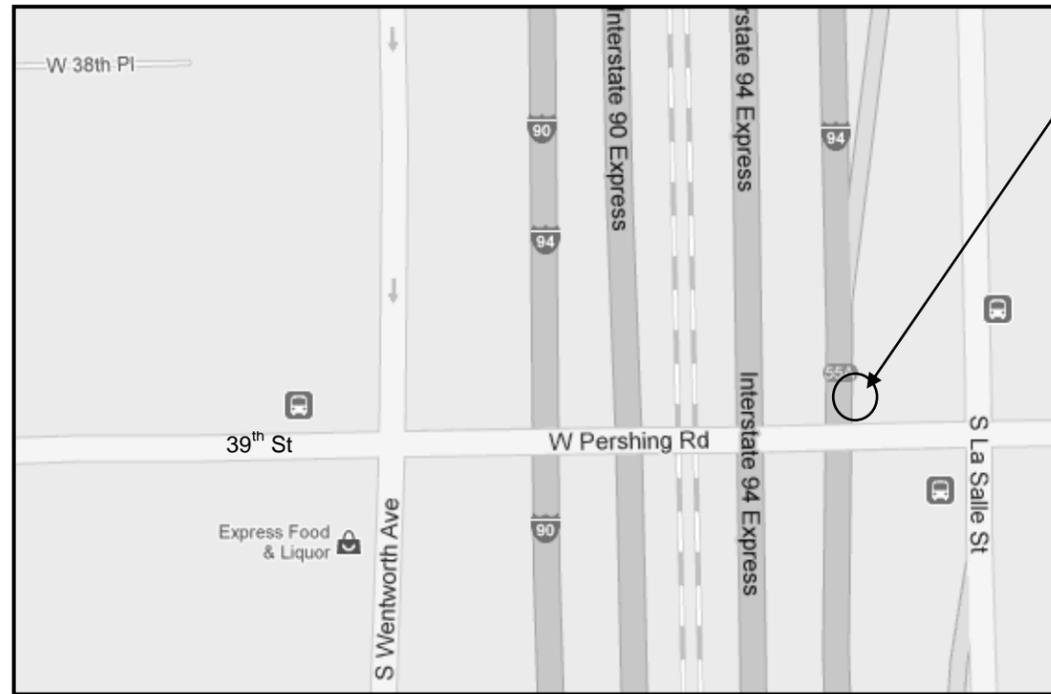
LOCATION: 8
I-90/94 (DAN RYAN EXPY)
LOCALS

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-I	VARIOUS	44	19

Contract 60P77

R 14E

T 39N

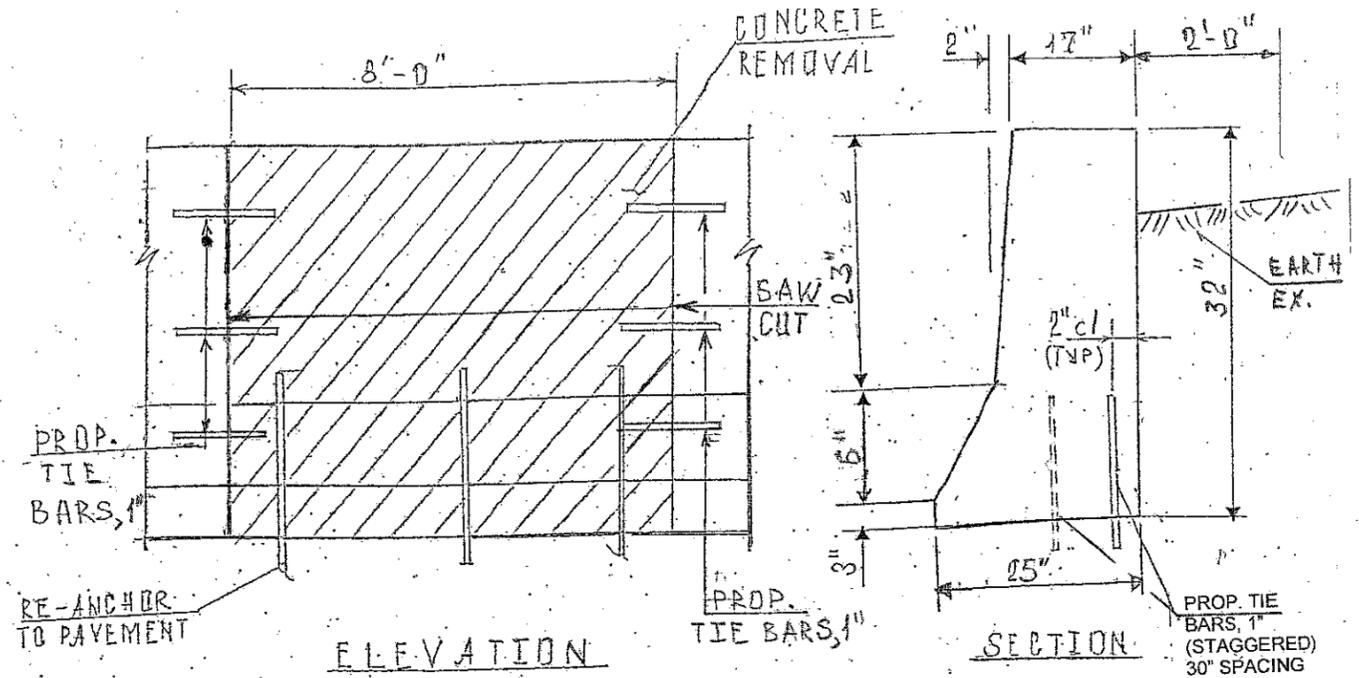


LOCATION 9: I-90/94 (DAN RYAN) WB
LOCAL AT 39th ST, RIGHT SIDE

CITY OF CHICAGO
LAKE TOWNSHIP
COOK COUNTY



FULL DEPTH REPAIR
REPLACE 8 FT OF BARRIER WALL
FOR MORE DETAILS SEE SHEET # 8



BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU YD	1.3
CONCRETE STRUCTURE	CU YD	1.3
TIE BARS	EACH	10
SAW CUTS	FOOT	5.5
EARTH EXCAVATION	CU YD	1.2
TEMPORARY EROSION CONTROL BLANKET	SQ YD	2.0
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2.0
SEEDING CLASS 2A	ACRE	0.0004
PROTECTIVE COAT	SQ YD	3.9

TRAFFIC DATA

I-90/94: SPEED LIMIT = 55 MPH
2009 ADT = 261900

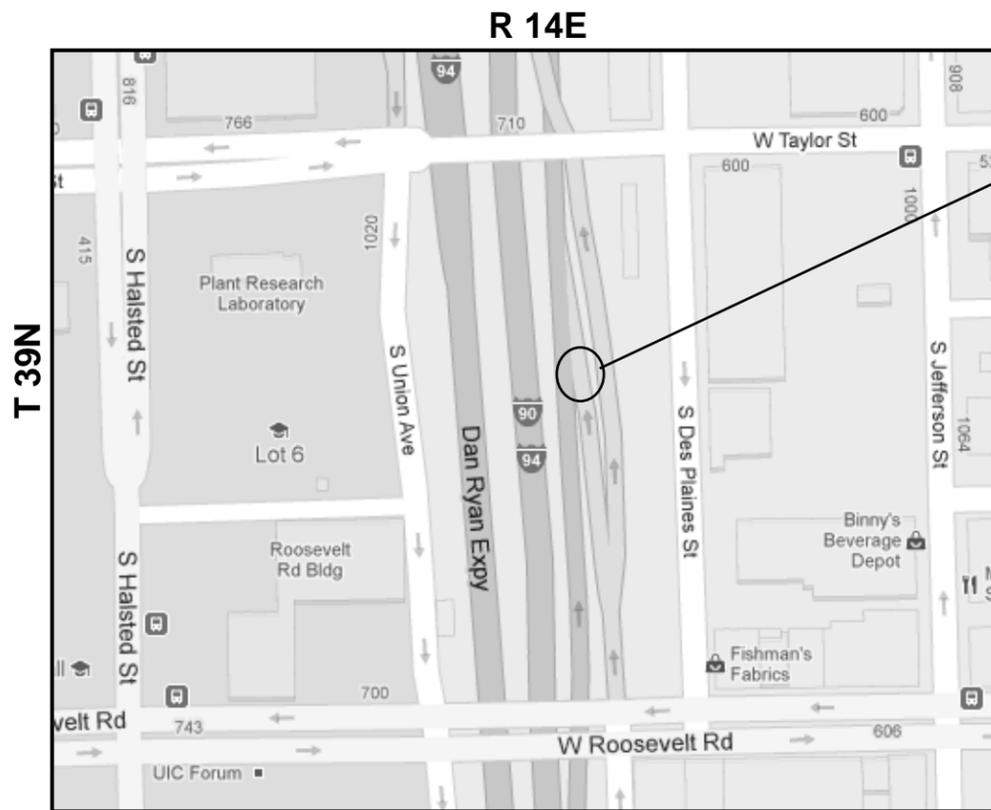
ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION 9
I-90/94 (DAN RYAN) LOCALS
AT 39th STREET

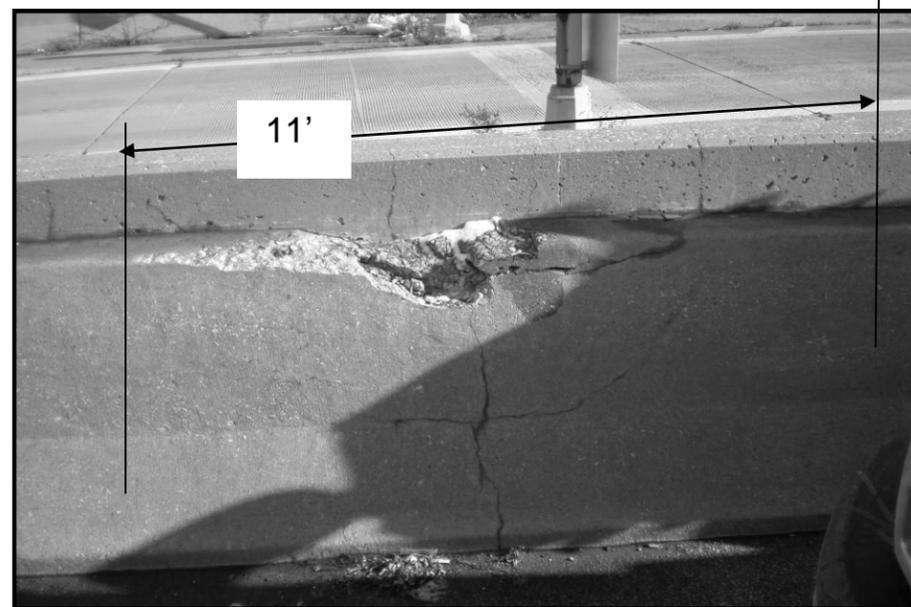
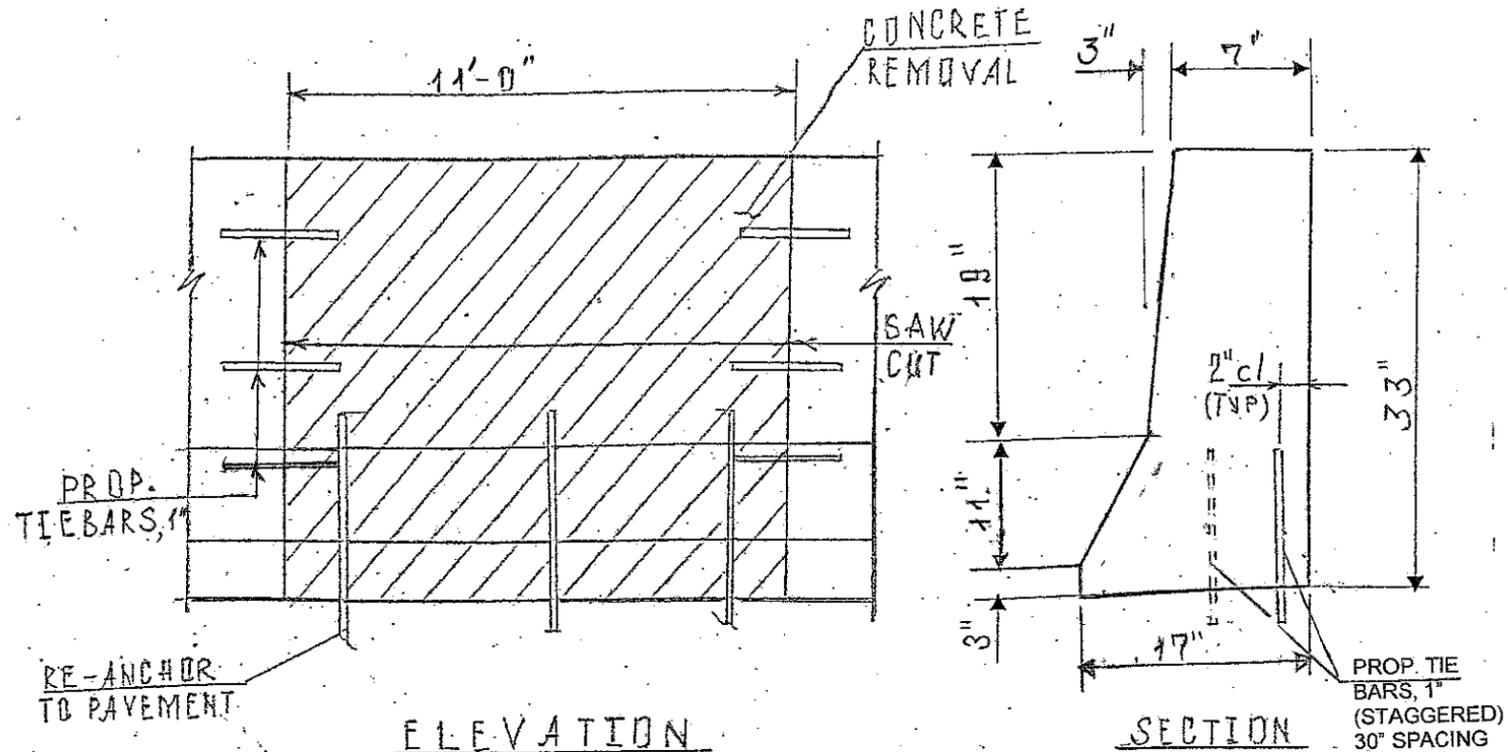
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-I	VARIOUS	44	20

Contract 60P77

LOCATION 10: I-90/94 (DAN RYAN) WB
 LOCAL, 450' NORTH OF ROOSEVELT RD
 BRIDGE, RIGHT SIDE



CITY OF CHICAGO
WEST CHICAGO TOWNSHIP
COOK COUNTY



FULL DEPTH REPAIR
 REPLACE 11 FT OF BARRIER WALL
 FOR MORE DETAILS SEE SHEET # 8

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU YD	1.0
CONCRETE STRUCTURE	CU YD	1.0
TIE BARS	EACH	11
SAW CUTS	FOOT	5.5
PROTECTIVE COAT	SQ YD	4.3

TRAFFIC DATA:

I-90/94: SPEED LIMIT = 55 MPH
 2009 ADT = 197100

ILLINOIS DEPARTMENT OF TRANSPORTATION

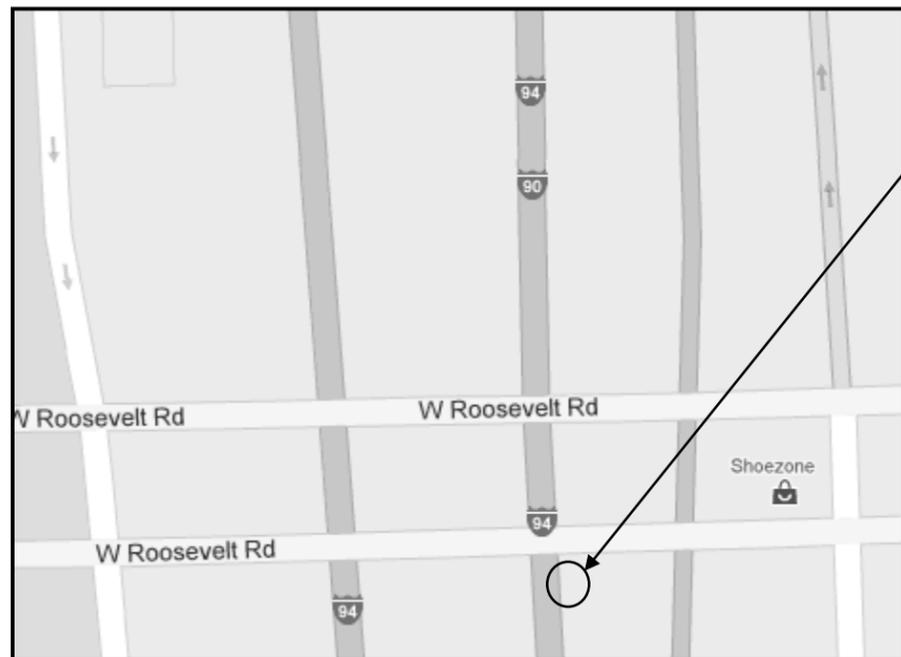
LOCATION: 10
I-90/94 (DAN RYAN EXPY)
NORTH OF ROOSEVELT ROAD

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-I	VARIOUS	44	21

Contract 60P77

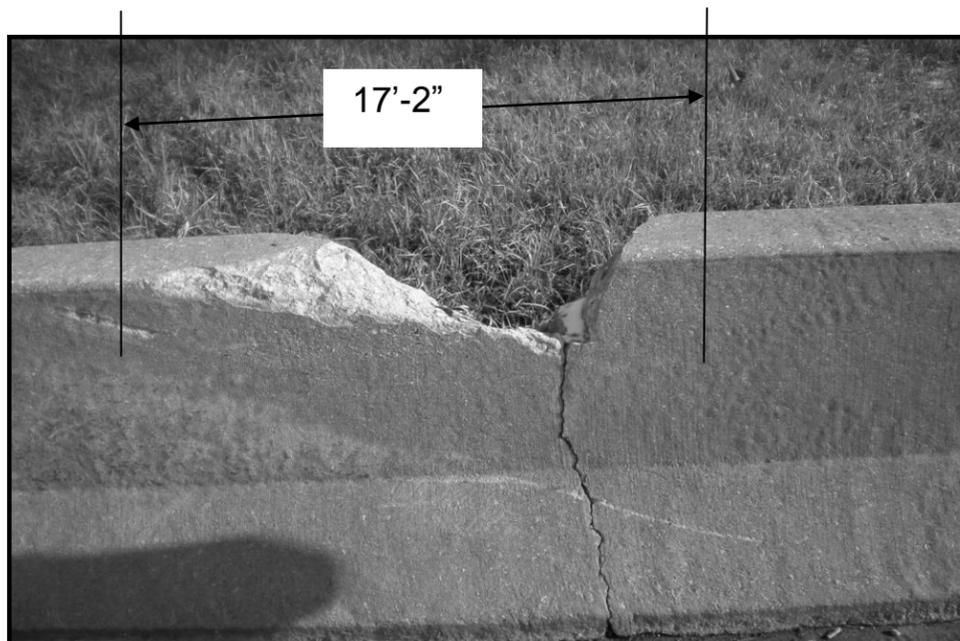
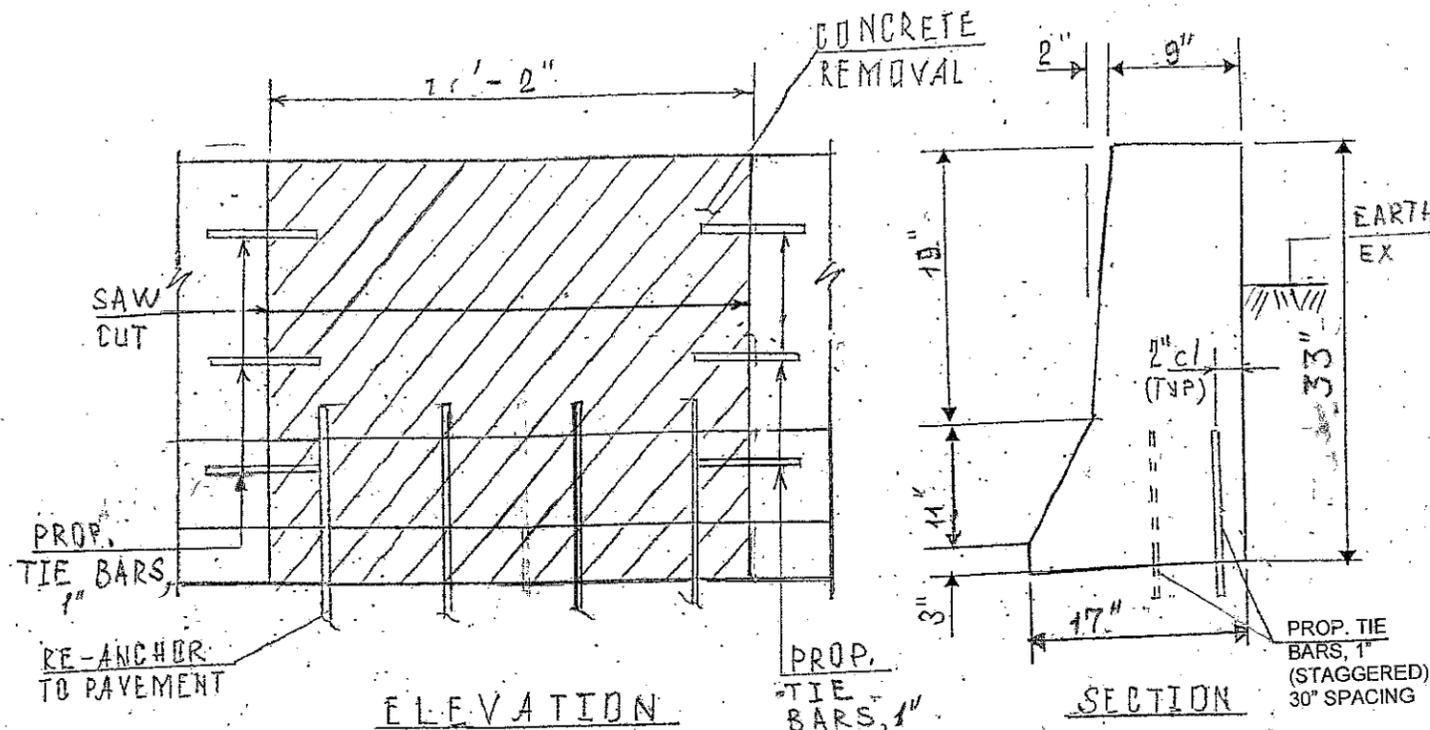
R 14E

T 39N



CITY OF CHICAGO
WEST CHICAGO TOWNSHIP
COOK COUNTY

LOCATION 11: I-90/94 (DAN RYAN) WB
150 FT SOUTH OF ROOSEVELT RD BRIDGE,
RIGHT SIDE



FULL DEPTH REPAIR
REPLACE 17'-2" OF BARRIER WALL
FOR MORE DETAILS SEE SHEET # 8

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU YD	1.8
CONCRETE STRUCTURE	CU YD	1.8
TIE BARS	EACH	13
SAW CUTS	FOOT	5.5
EARTH EXCAVATION	CU YD	2.6
TEMPORARY EROSION CONTROL BLANKET	SQ YD	4.0
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	4.0
SEEDING CLASS 2A	ACRE	0.0008
PROTECTIVE COAT	SQ YD	7.0

TRAFFIC DATA:

I-90/94: SPEED LIMIT = 55 MPH
2009 ADT = 227000

ILLINOIS DEPARTMENT OF TRANSPORTATION

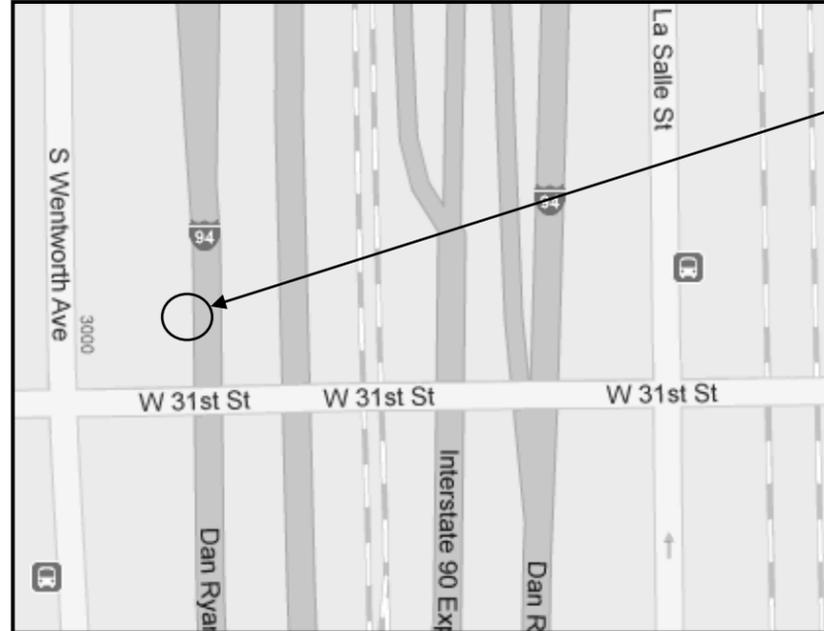
LOCATION: 11
I-90/94 (DAN RYAN EXPY)
SOUTH OF ROOSEVELT ROAD

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-I	VARIOUS	44	22

Contract 60P77

R 14E

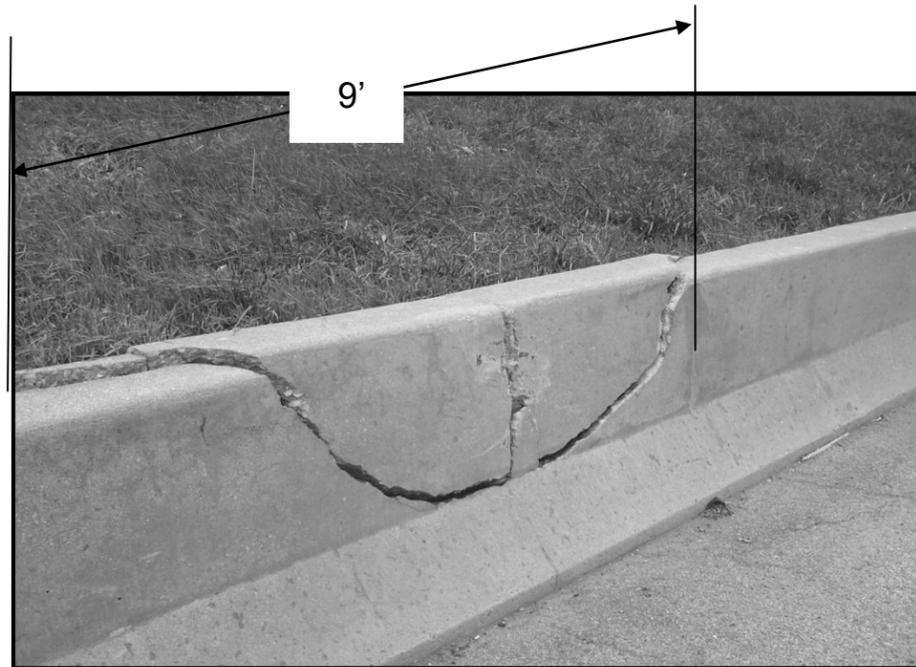
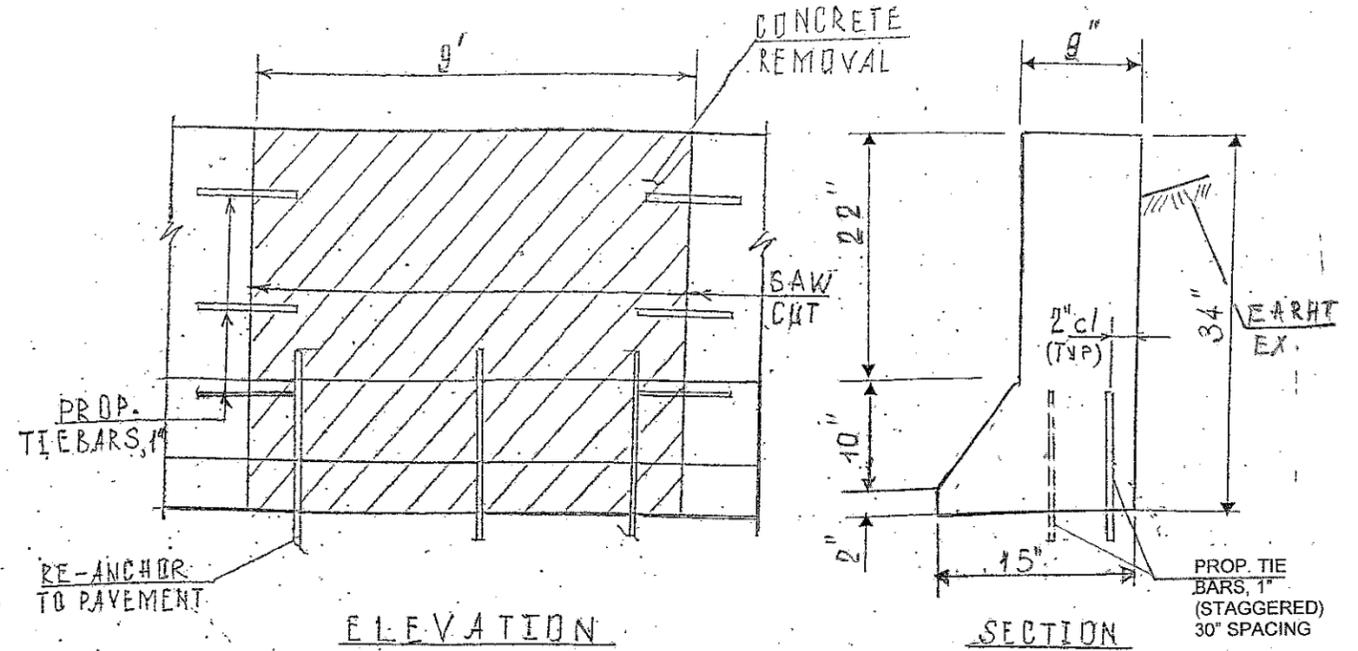
T 39N



LOCATION 12: I-90/94 (DAN RYAN) EB
100 FT NORTH OF 31st ST.
RIGHT SIDE



CITY OF CHICAGO
SOUTH CHICAGO TOWNSHIP
COOK COUNTY



FULL DEPTH REPAIR
FOR MORE DETAILS SEE SHEET # 8

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU YD	0.8
CONCRETE STRUCTURE	CU YD	0.8
TIE BARS	EACH	10
SAW CUTS	FOOT	5.7
EARTH EXCAVATION	CU YD	1.4
TEMPORARY EROSION CONTROL BLANKET	SQ YD	2.0
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2.0
SEEDING CLASS 2A	ACRE	0.0004
PROTECTIVE COAT	SQ YD	3.8

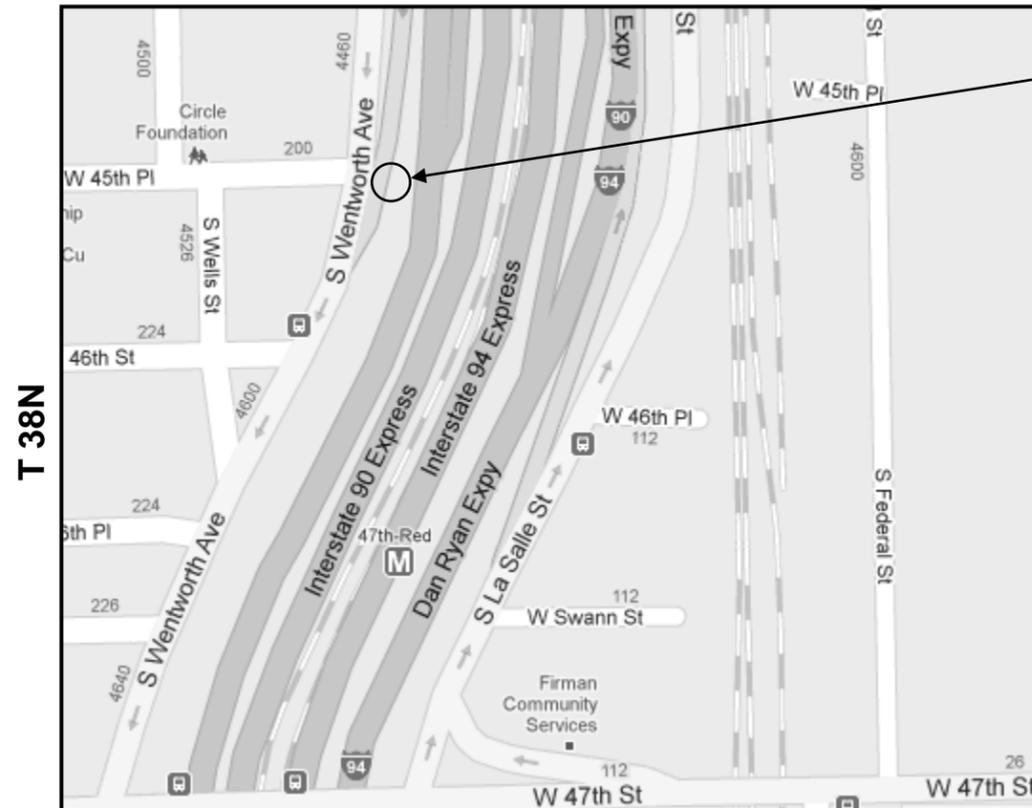
TRAFFIC DATA:

I-90/94: SPEED LIMIT = 55 MPH
2009 ADT = 218300

ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION: 12
I-90/94 (DAN RYAN EXPY)
LOCALS NORTH OF 31-st STREET

R 14E



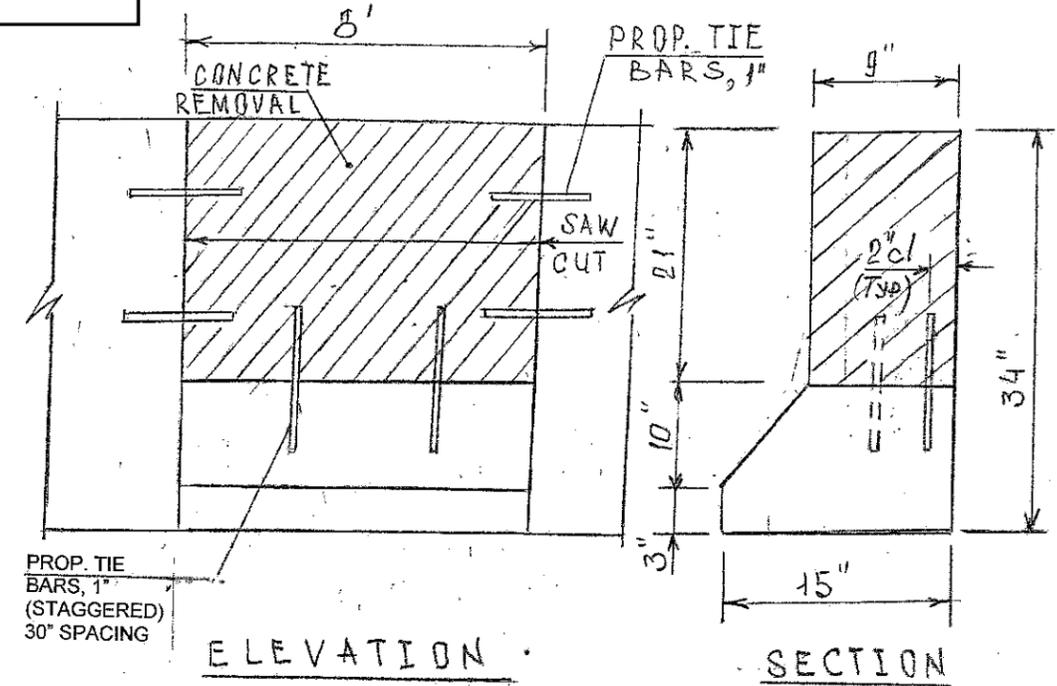
T 38N



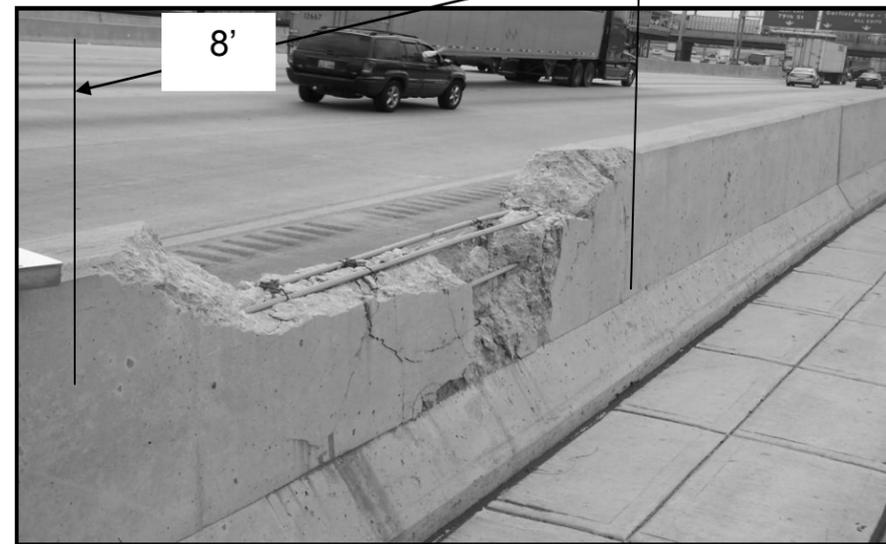
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-I	VARIOUS	44	23

LOCATION 13: I-90/94 (DAN RYAN) EB
LOCAL AT 47th ST OFF RAMP
RIGHT SIDE

Contract 60P77



CITY OF CHICAGO
LAKE TOWNSHIP
COOK COUNTY



PARTIAL DEPTH REPAIR
REPLACE 8 FT OF BARRIER WALL
FOR MORE DETAILS SEE SHEET # 9

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU YD	0.40
CONCRETE STRUCTURE	CU YD	0.40
TIE BARS	EACH	8
SAW CUTS	FOOT	11.5
PROTECTIVE COAT	SQ YD	3.3

TRAFFIC DATA:

I-90/94: SPEED LIMIT = 55 MPH
2009 ADT = 248800

ILLINOIS DEPARTMENT OF TRANSPORTATION

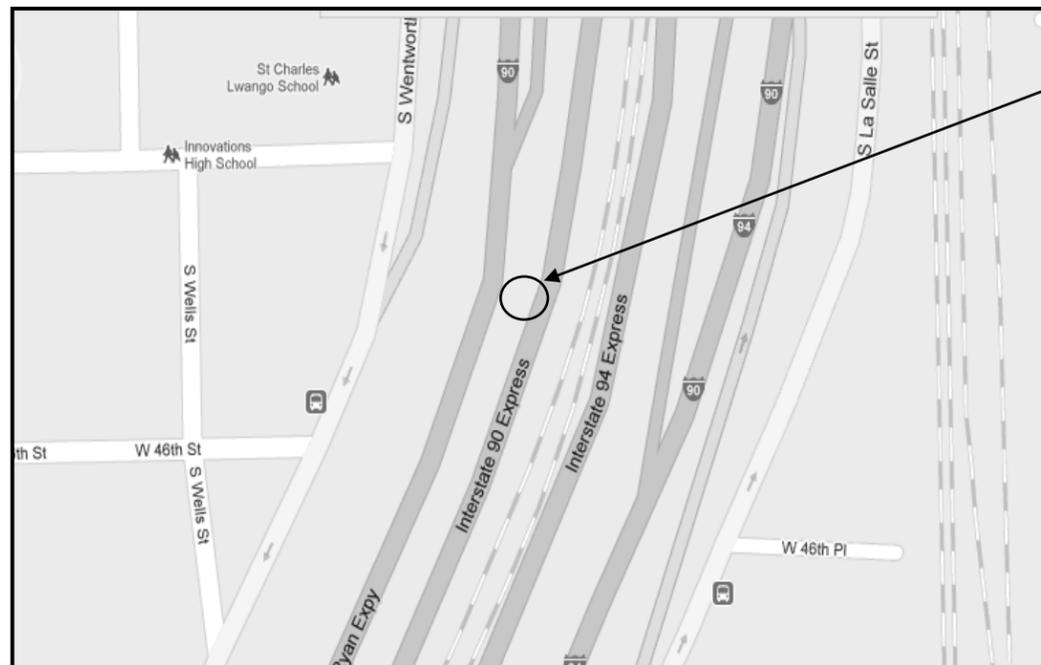
LOCATION: 13
I-90/94 (DAN RYAN EXPY)
LOCALS SB AT 47th STREET

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-I	VARIOUS	44	24

Contract 60P77

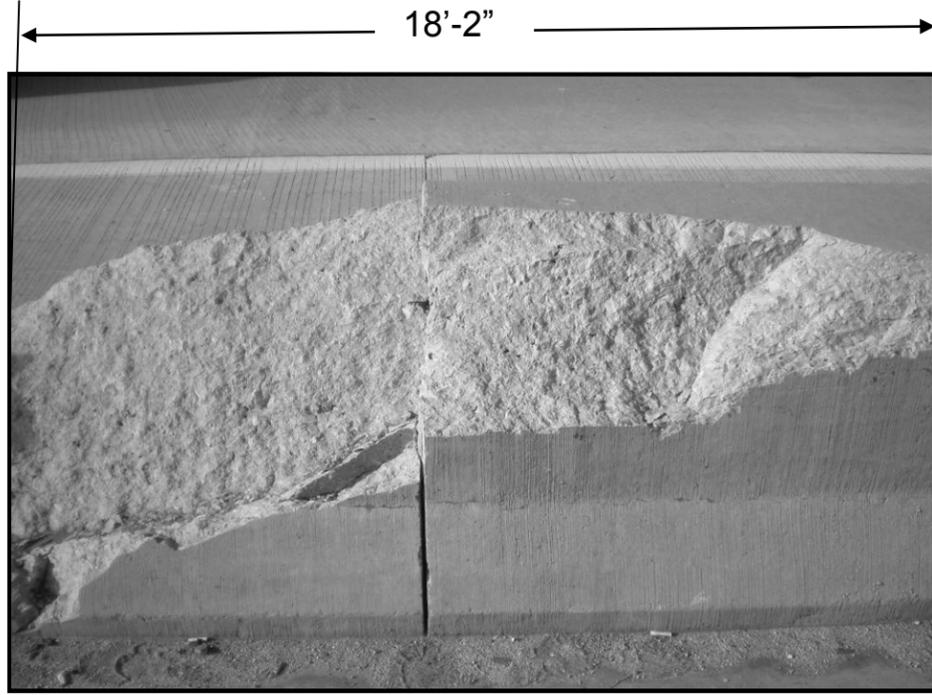
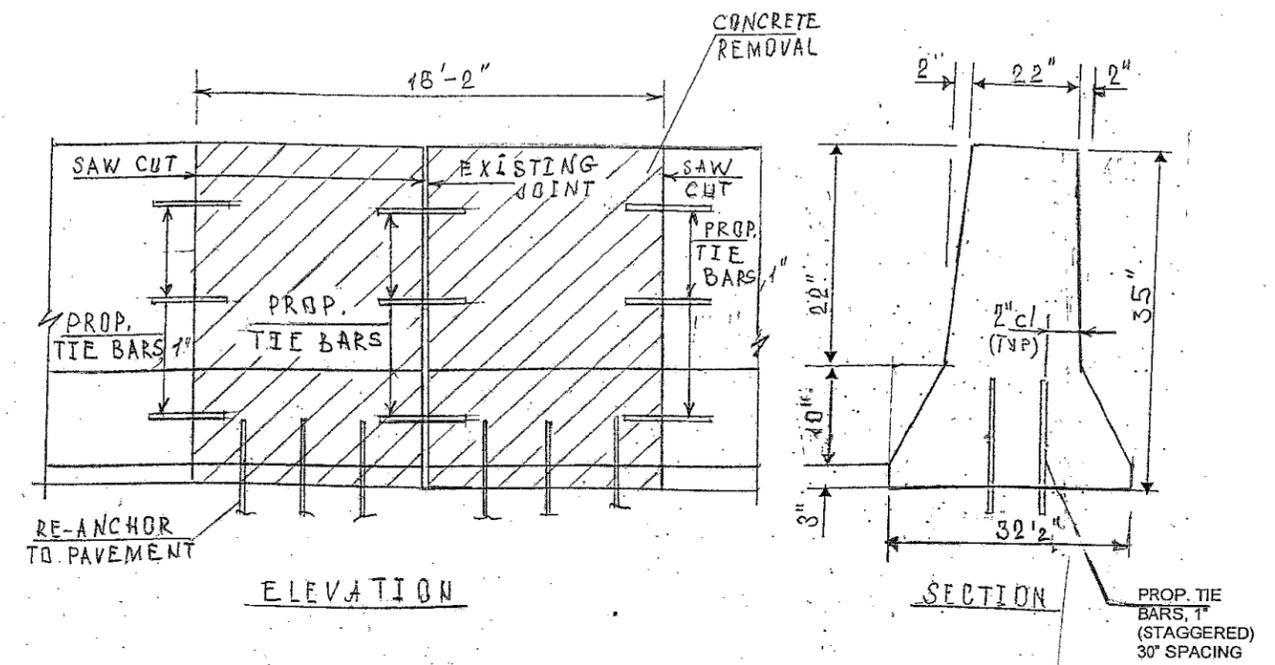
R 14E

T 38N



LOCATION 14: I-90/94 (DAN RYAN) EB EXPRESS LANE AT 46th STREET (EXPRESS SIDE OF THE SLIP RAMP), RIGHT SIDE

CITY OF CHICAGO
LAKE TOWNSHIP
COOK COUNTY



FULL DEPTH REPAIR
REPLACE 18'-2" OF BARRIER WALL
FOR MORE DETAILS SEE SHEET # 8

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU YD	4.3
CONCRETE STRUCTURE	CU YD	4.3
TIE BARS	EACH	17
SAW CUTS	FOOT	6.0
PROTECTIVE COAT	SQ YD	16.0

TRAFFIC DATA:
I-90/94: SPEED LIMIT = 55 MPH
2009 ADT = 248800

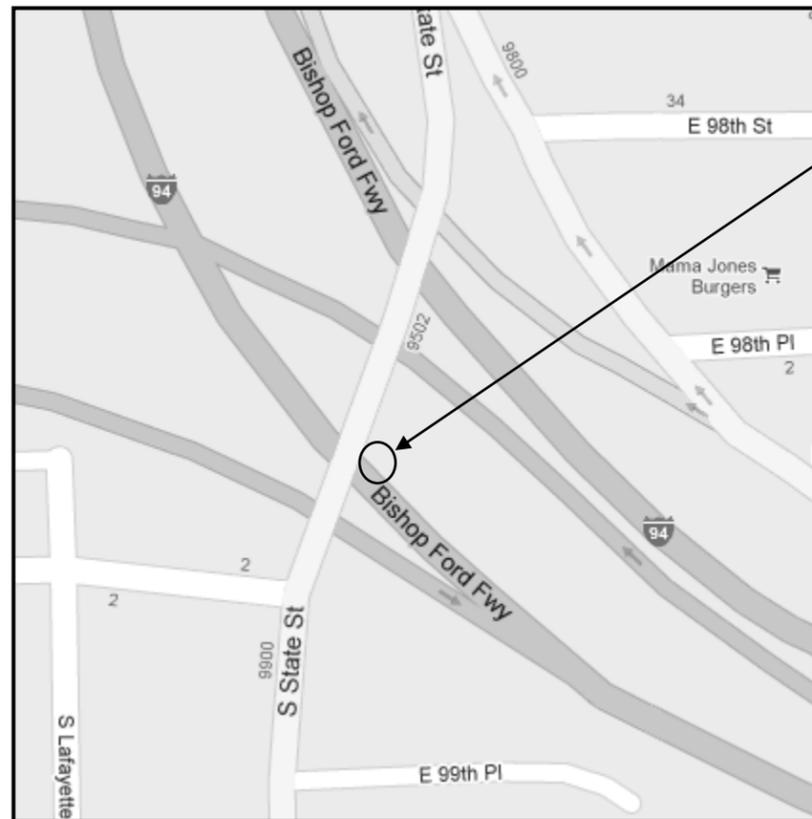
ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION: 14
I-90/94 (DAN RYAN EXPY)
AT 46th STREET

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-I	VARIOUS	44	25

Contract 60P77

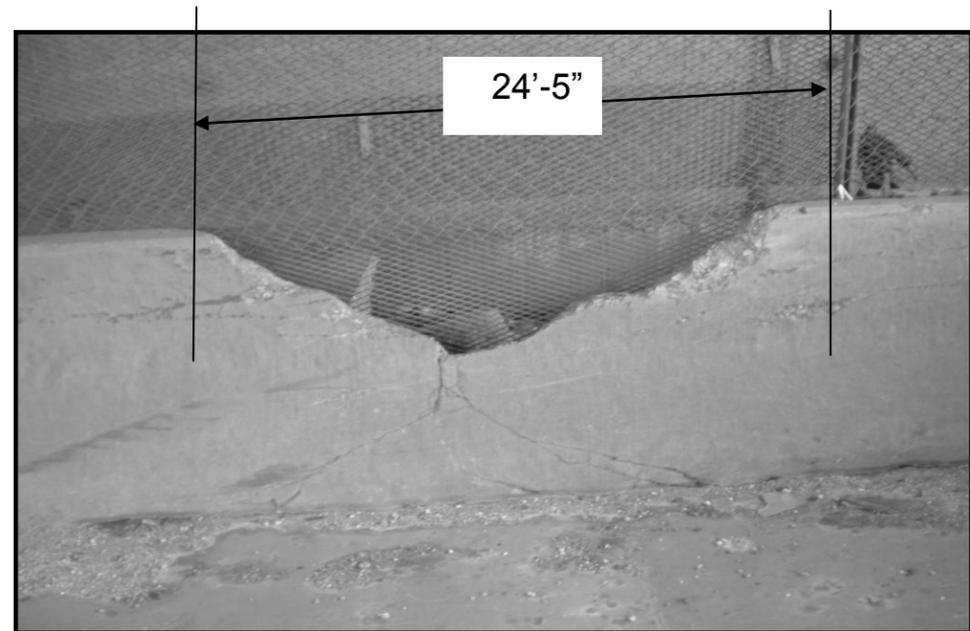
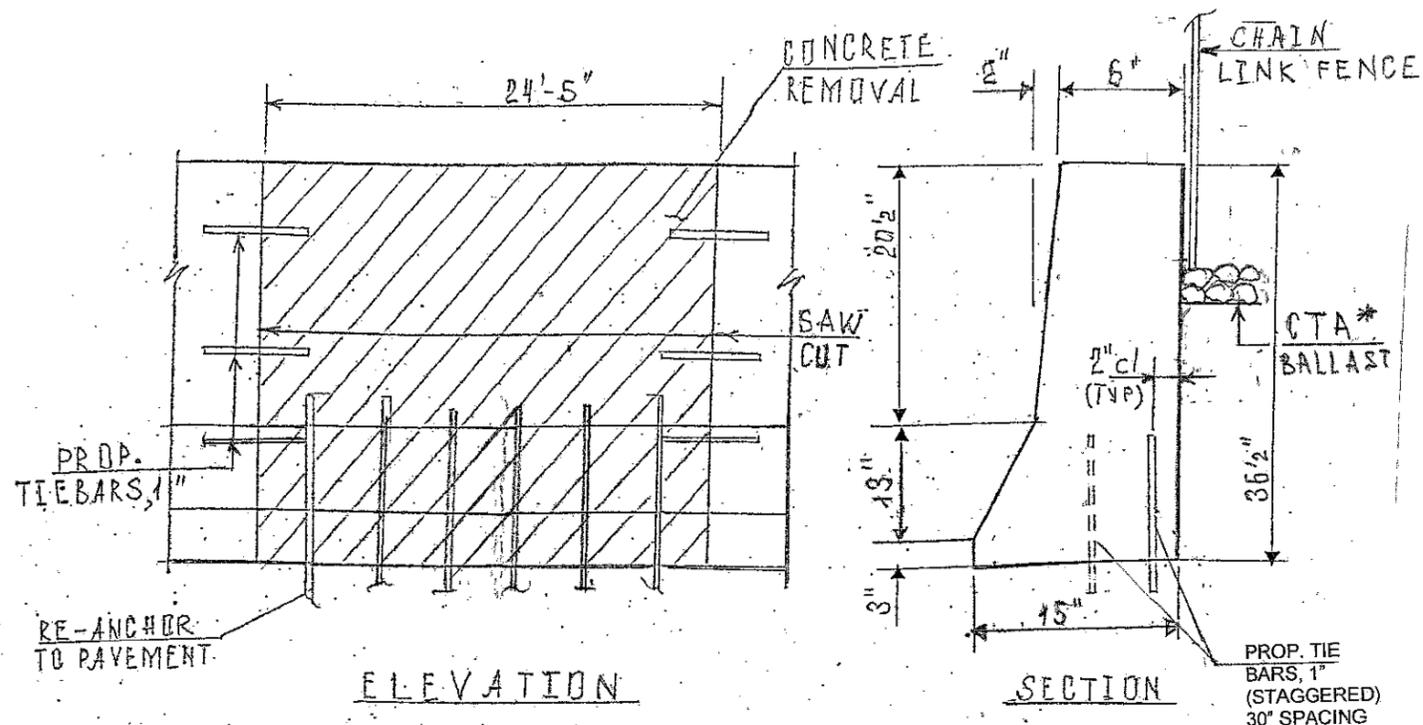
R 14E



LOCATION 15: I-90/94 (DAN RYAN) EB SOUTH AFTER STATE STREET BRIDGE, LEFT SIDE, ADJACENT TO CTA RR

T 37N

CITY OF CHICAGO
HIDE PARK TOWNSHIP
COOK COUNTY



FULL DEPTH REPAIR
REPLACE 24'-5" OF BARRIER WALL
FOR MORE DETAILS SEE SHEET # 8

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU YD	2.2
CONCRETE STRUCTURE	CU YD	2.2
TIE BARS	EACH	46
SAW CUTS	FOOT	6.0
PROTECTIVE COAT	SQ YD	10.0

*DO NOT DISTURB

TRAFFIC DATA:

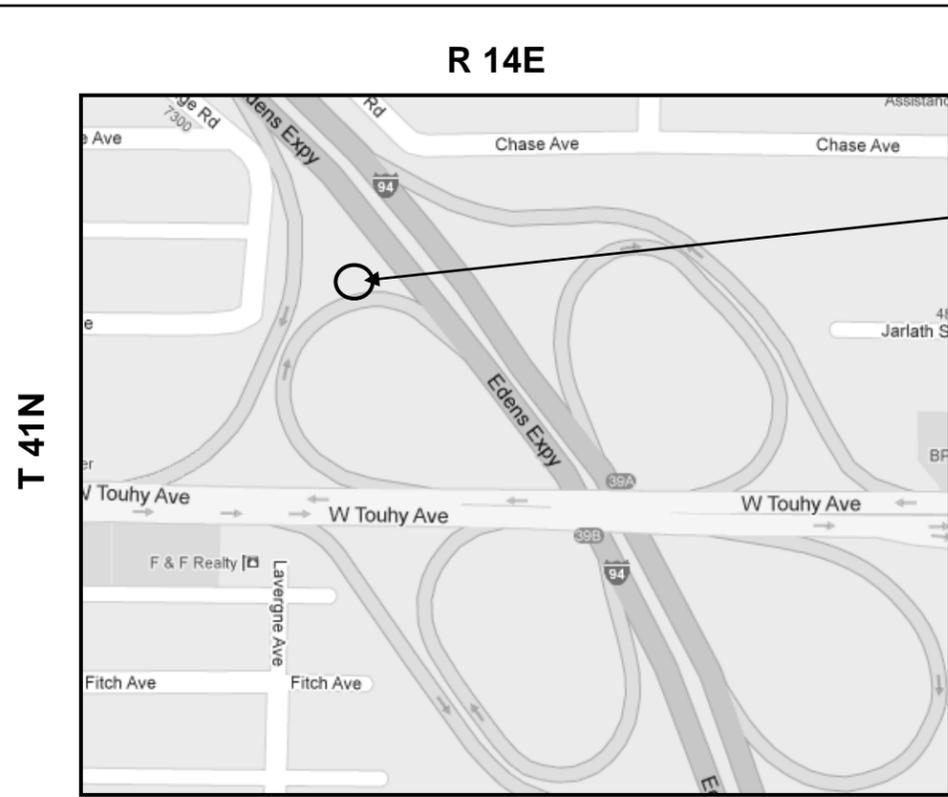
I-90/94: SPEED LIMIT = 55 MPH
2009 ADT = 155800

ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION: 15
I-90/94 (DAN RYAN)
AT STATE STREET

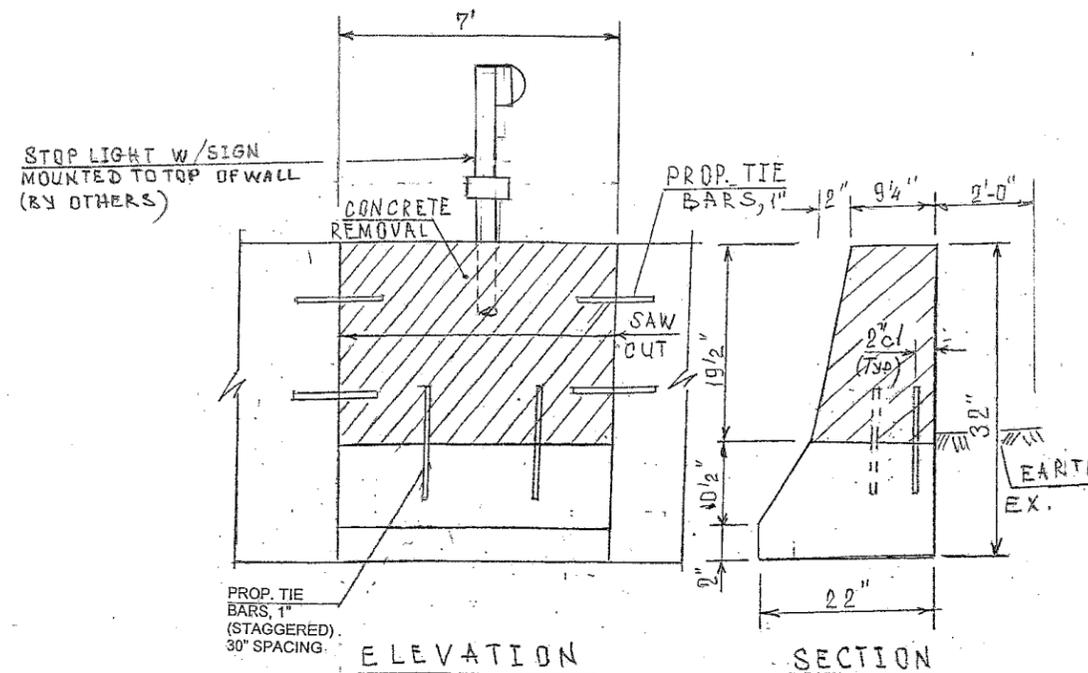
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-I	VARIOUS	44	26

Contract 60P77



VILLAGE OF LINCOLNWOOD
NILES TOWNSHIP, COOK COUNTY

LOCATION 16: I-94 (EDENS EXPY)
WB TOUHY AVE TO I-94 EB RAMP,
LEFT SIDE.



BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU YD	0.40
CONCRETE STRUCTURE	CU YD	0.40
TIE BARS	EACH	7
SAW CUTS	FOOT	10.5
EARTH EXCAVATION	CU YD	1.0
TEMPORARY EROSION CONTROL BLANKET	SQ YD	1.5
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1.5
SEEDING CLASS 2A	ACRE	0.0003
PROTECTIVE COAT	SQ YD	3.0
ELECTRICAL CABLE IN CONDUIT	FOOT	40
SIGN PANEL - TYPE 1	SQ FT	5.0



PARTIAL DEPTH BARRIER REPAIR
FOR MORE DETAILS SEE SHEET # 9

TRAFFIC DATA:

I-90/94 EB TOUHY AVE RAMP: SPEED LIMIT = 20 MPH
2002 ADT = 6600

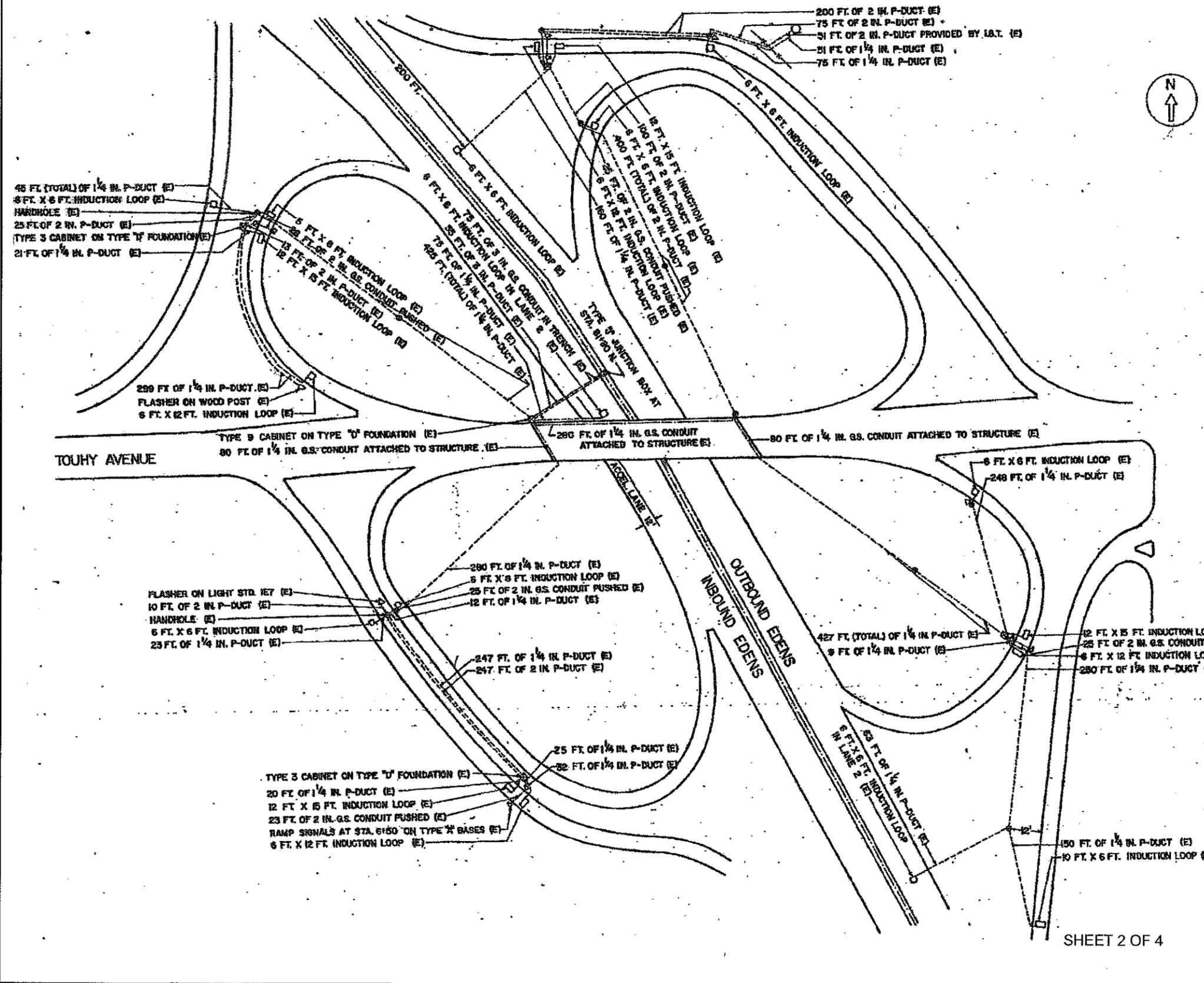
SHEET 1 OF 4

ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION: 16
I-94 (EDENS EXPY) EB
TOUHY AVE RAMP

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-1	COOK	44	27

Contract 60P77



FOR INFORMATION ONLY

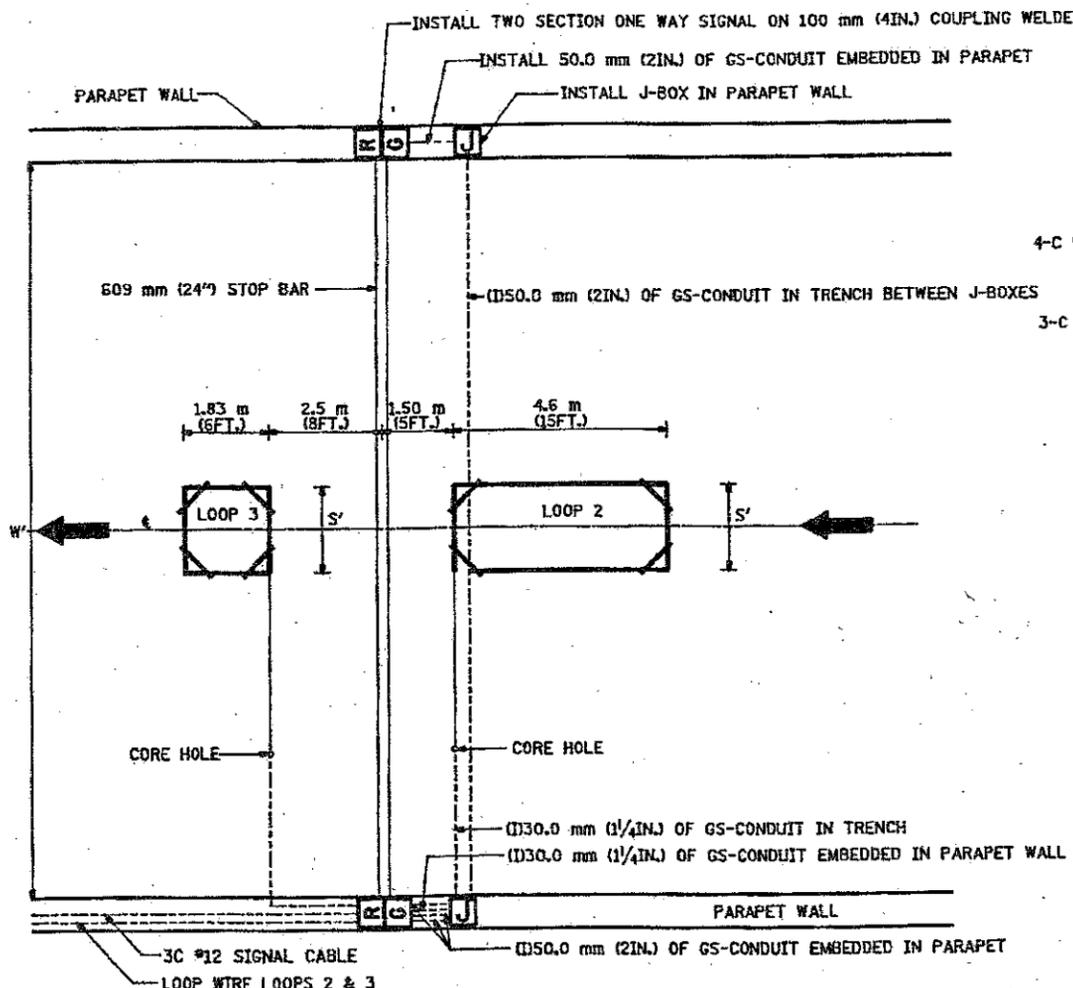
LEGEND

- INDUCTION LOOP
- ▣ CABINET
- ⊠ JUNCTION BOX
- ⊙ PULL POINT
- SERVICE INSTALLATION
- ⊕ HANDHOLE
- ⊕ HEAVY DUTY HANDHOLE
- POLYETHYLENE DUCT
- CONDUIT
- FENCE
- GUARDRAIL
- △ FLASHER
- ⊙ METERING SIGNAL LIGHT
- (E) EXISTING FACILITIES
- (R) REMOVE EXISTING FACILITIES
- (R) RELOCATE EXISTING FACILITIES

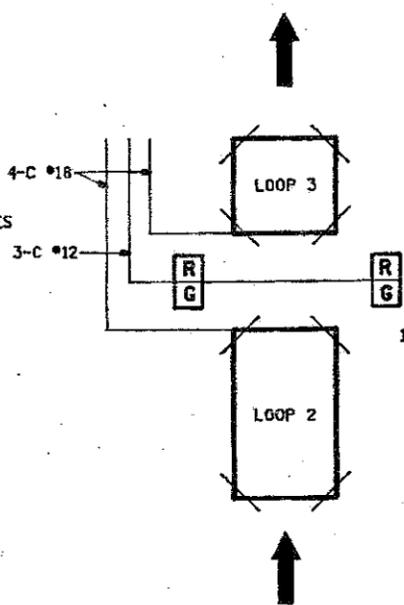
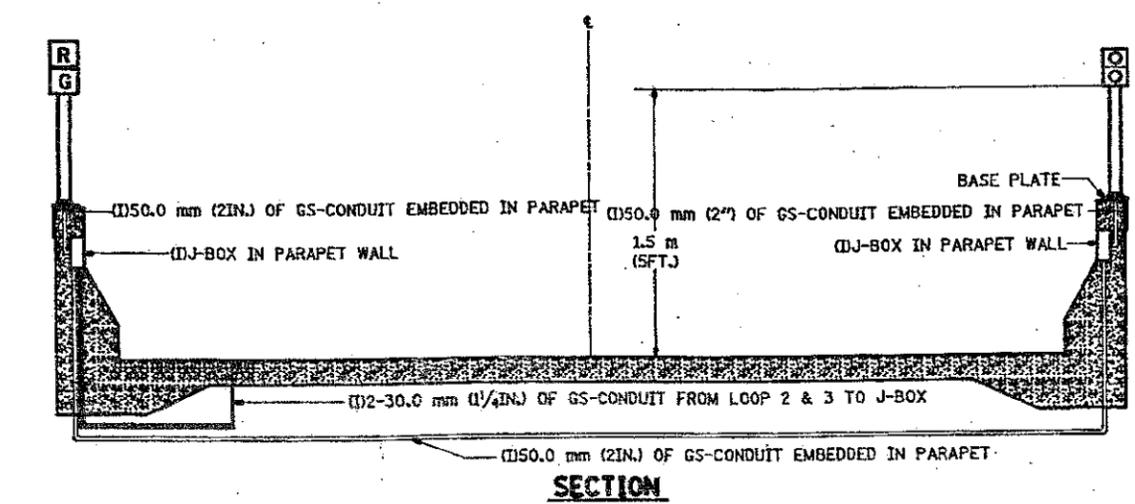
ILLINOIS DEPARTMENT OF TRANSPORTATION
 LOCATION 16
 I-94 (EDENS EXPY) EB
 TOUHY AVE METERING INSTALLATION

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-I	COOK	44	29

Contract 60P77



TYPICAL LOOP LAYOUT

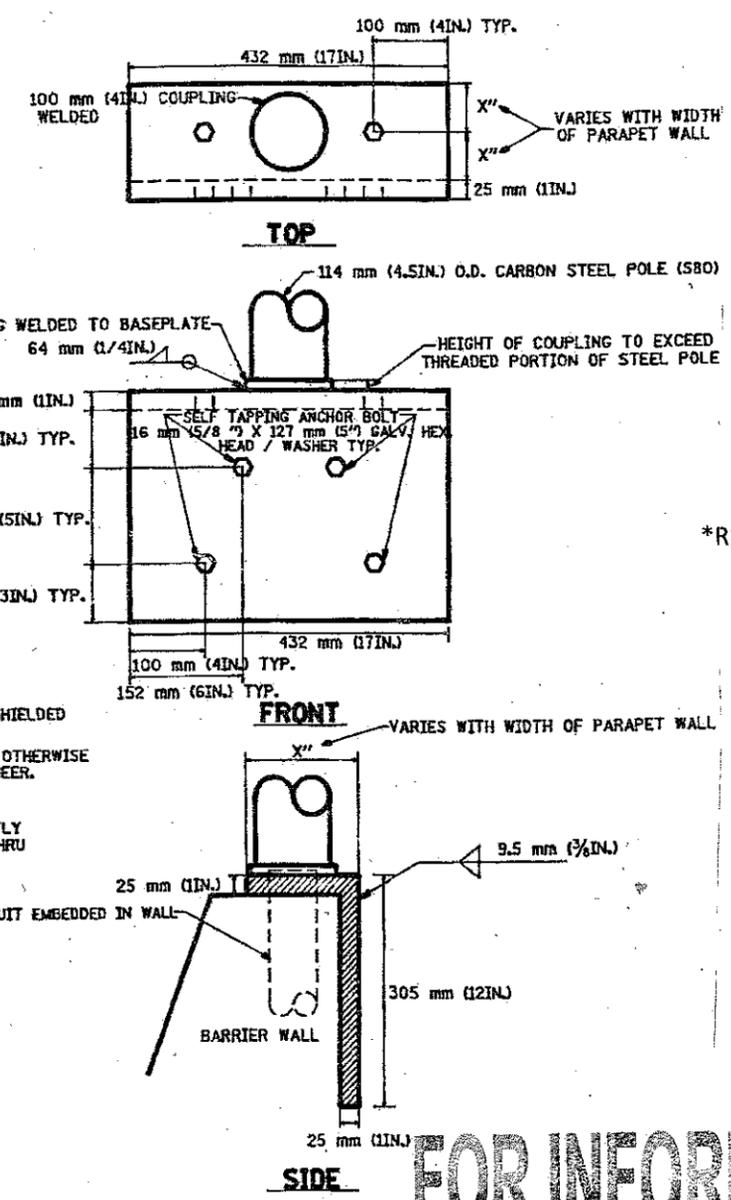


NOTES

1. EACH LOOP SHALL BE SPliced TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 45 m (150FT.) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPliced IN HANDHOLES OR J-BOX ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPliced IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

TABLE 1

WIDTH (W)	WIDTH (S)
3.7 m (12')	2.5 m (8')
4.0 m (13')	2.8 m (9')
4.3 m (14')	3.1 m (10')
4.6 m (15')	3.4 m (11')
4.9 m (16')	3.7 m (12')
5.2 m (17')	4.0 m (13')
5.5 m (18')	4.3 m (14')
5.8 m (19')	4.6 m (15')
6.1 m (20')	4.9 m (16')
6.4 m (21')	5.2 m (17')
6.7 m (22')	5.5 m (18')
7.0 m (23')	5.8 m (19')
7.3 m (24')	6.1 m (20')
7.6 m (25')	6.4 m (21')



* R10-6a

*R10-6a PLATE TO BE MOUNTED ON THE SIGNAL POST

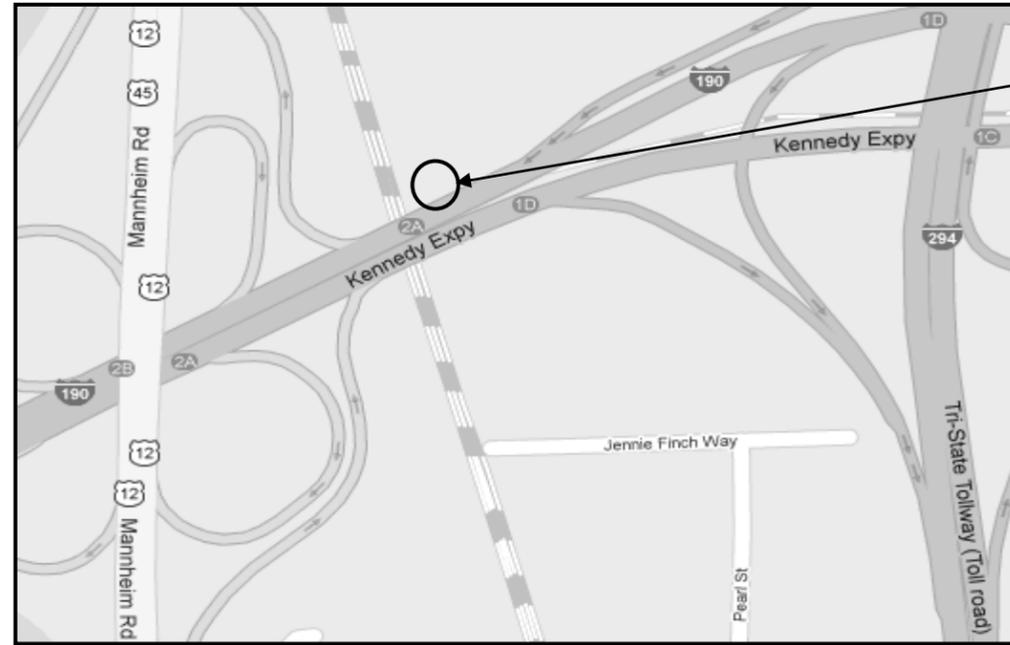
FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF TRANSPORTATION
LOCATION 16
I-94 (EDENS EXPY) EB
TOUHY AVE METERING INSTALLATION

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-I	VARIOUS	44	31

Contract 60P77

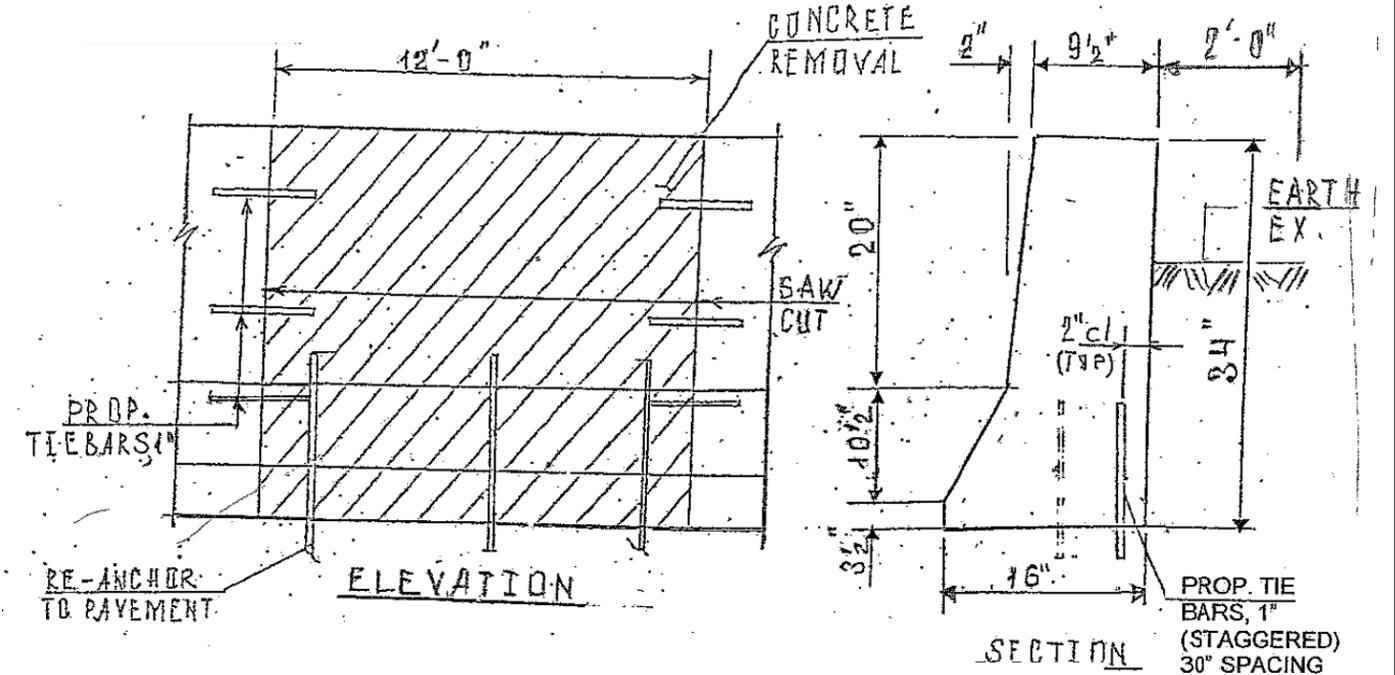
R 12E



LOCATION 18: I-190 WB
 BEFORE EXIT 2A FOR MANNHEIM RD, NORTH OF THE OVERHEAD SIGN TRUSS "C5". ADJACENT TO MILE MARKER 1/62, RIGHT SIDE

T 40N

CITY OF CHICAGO
 JEFFERSON TOWNSHIP
 COOK COUNTY



12'



FULL DEPTH REPAIR
 REPLACE 12 FT OF BARRIER WALL
 FOR MORE DETAILS SEE SHEET # 8



TRAFFIC DATA:

I-190: SPEED LIMIT = 55 MPH
 2009 ADT = 106700

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU YD	1.2
CONCRETE STRUCTURE	CU YD	1.2
TIE BARS	EACH	11
SAW CUTS	FOOT	6.0
EARTH EXCAVATION	CU YD	1.8
TEMPORARY EROSION CONTROL BLANKET	SQ YD	3.0
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	3.0
SEEDING CLASS 2A	ACRE	0.0006
PROTECTIVE COAT	SQ YD	5.0

ILLINOIS DEPARTMENT OF TRANSPORTATION

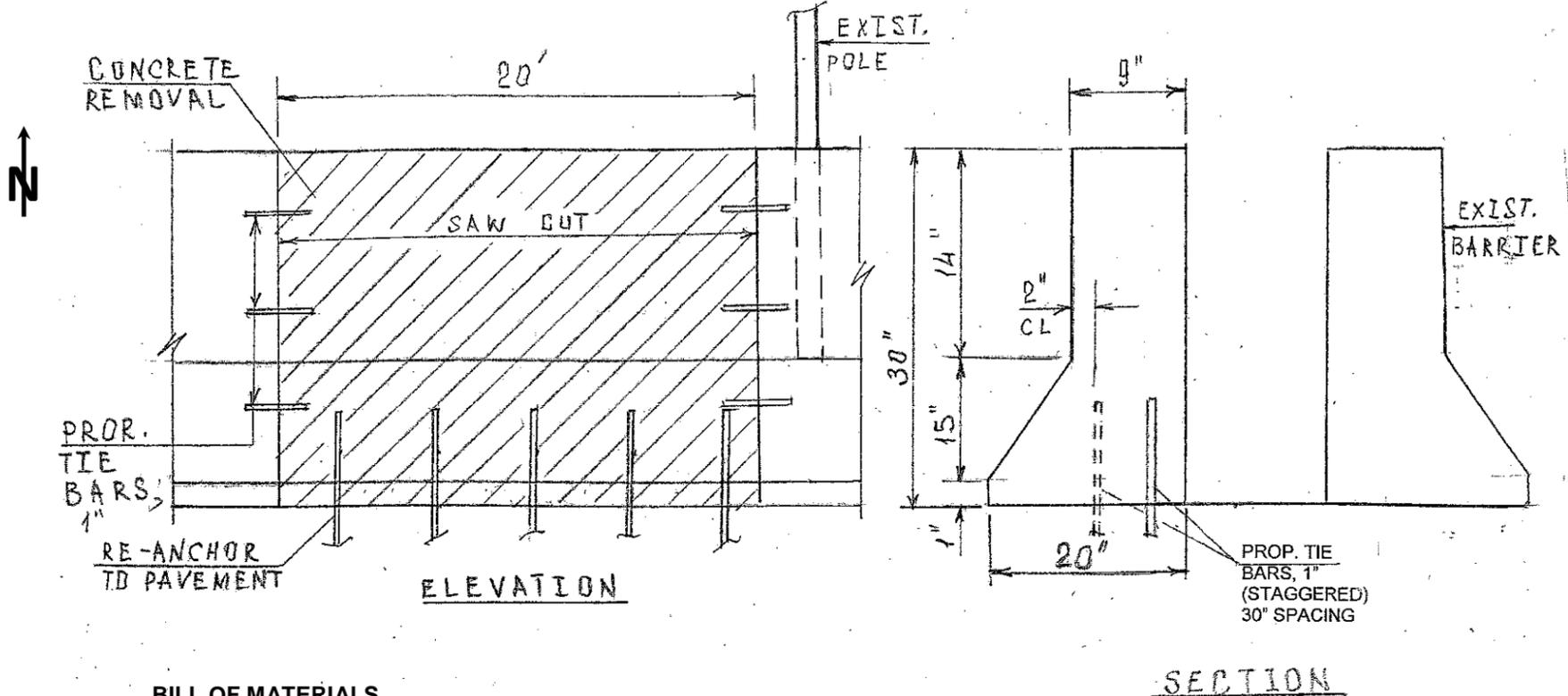
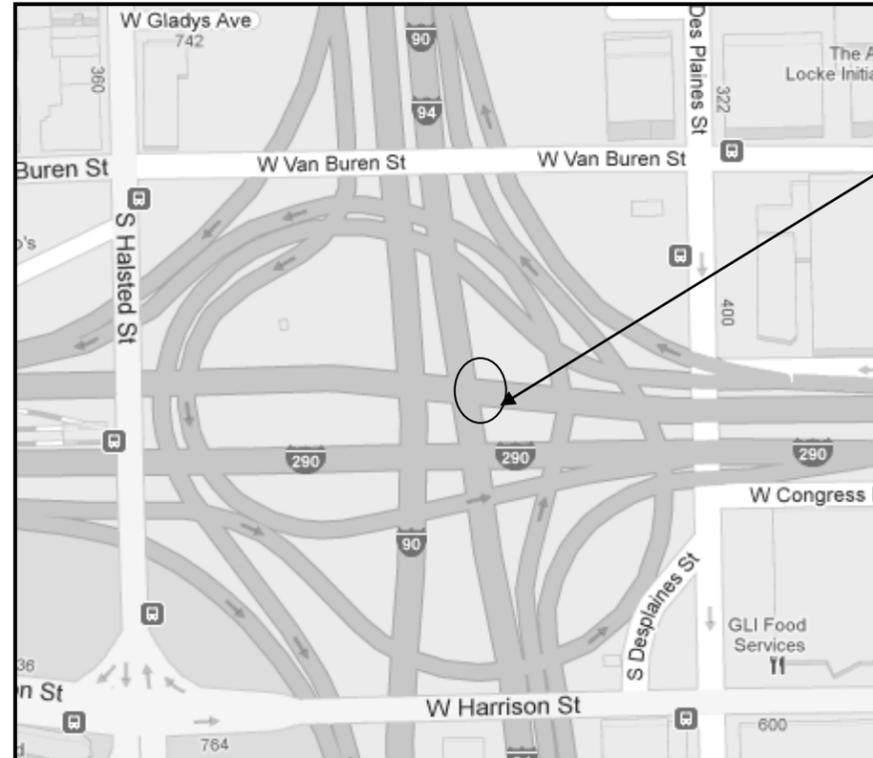
LOCATION: 18
 I-190 WB AT MANNHEIM RD

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-I	VARIOUS	44	32

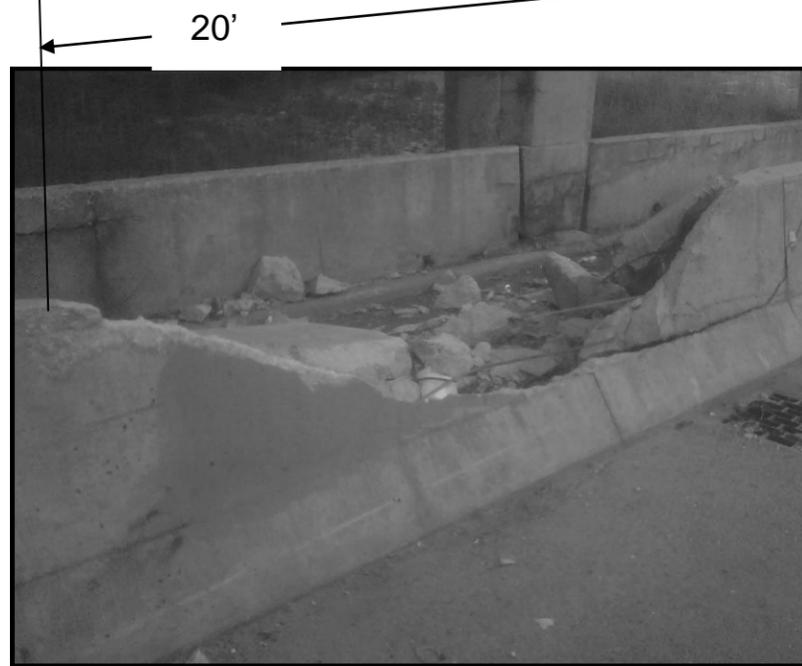
Contract 60P77

LOCATION 19: I-90/94 (KENNEDY EXPY) WB
 UNDER WB I-290 (CONGRESS EXPY BRIDGE),
 RIGHT SIDE

T 39N



CITY OF CHICAGO
 WEST CHICAGO TOWNSHIP
 COOK COUNTY



FULL DEPTH BARRIER REPAIR
 FOR MORE DETAILS SEE SHEET # 8

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU YD	1.9
CONCRETE STRUCTURE	CU YD	1.9
TIE BARS	EACH	14
SAW CUTS	FOOT	5.0
PROTECTIVE COAT		8.0

THE CONTACTOR SHALL EXERCISE CAUTION NOT TO
 DAMAGE EXISTING POLE.

TRAFFIC DATA:

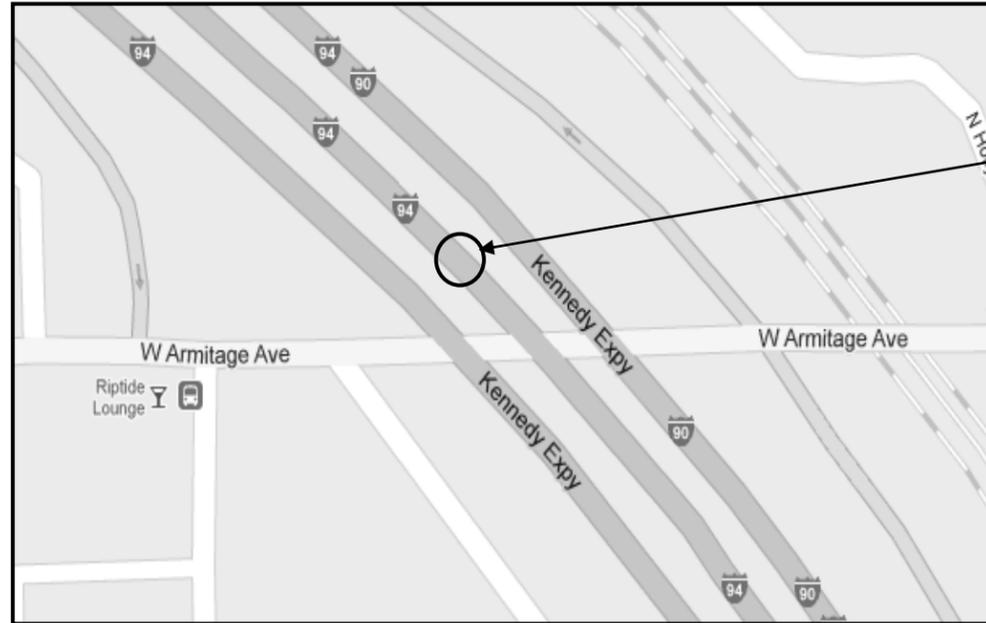
I-90/94: SPEED LIMIT = 55 MPH
 2009 ADT = 191900

ILLINOIS DEPARTMENT OF TRANSPORTATION

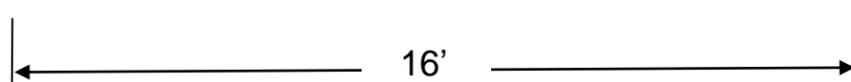
LOCATION: 19
 I-90/94 (KENNEDY EXPY)
 UNDER WB I-290 (CONGRESS EXPY BRIDGE)

R 14E

T 40N



CITY OF CHICAGO
WEST CHICAGO TOWNSHIP
COOK COUNTY

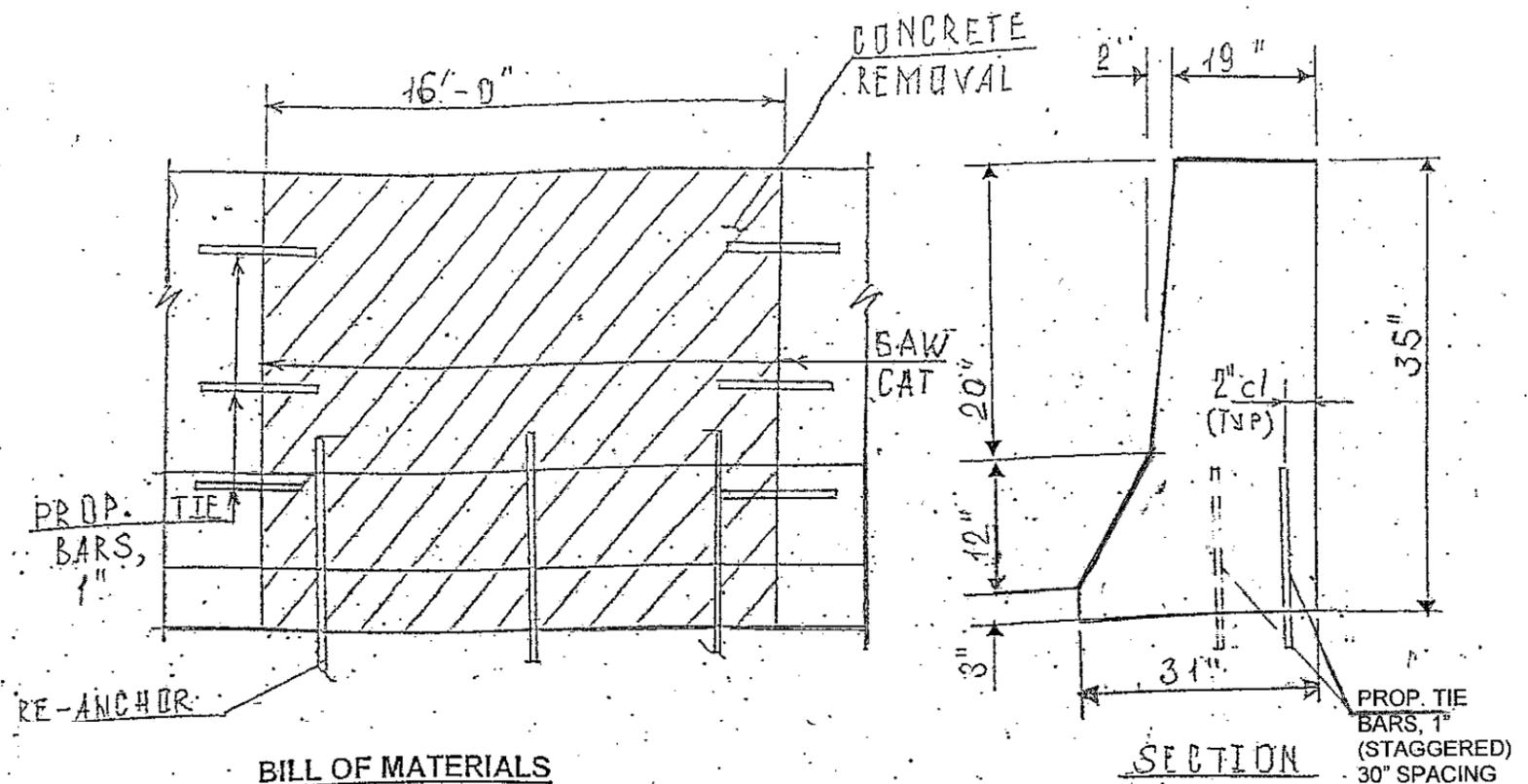


FULL DEPTH REPAIR
REPLACE 16 FT OF BARRIER WALL
FOR MORE DETAILS SEE SHEET # 8

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-1	VARIOUS	44	33

Contract 60P77

LOCATION 20: I-90/94 (KENNEDY EXPY) EB REVERSIBLES
SOUTH OF MM48/16. NORTH OF ARMITAGE AVE



BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU YD	3.3
CONCRETE STRUCTURE	CU YD	3.3
TIE BARS	EACH	12
SAW CUTS	FOOT	6.0
PROTECTIVE COAT	SQ YD	8.6

TRAFFIC DATA:

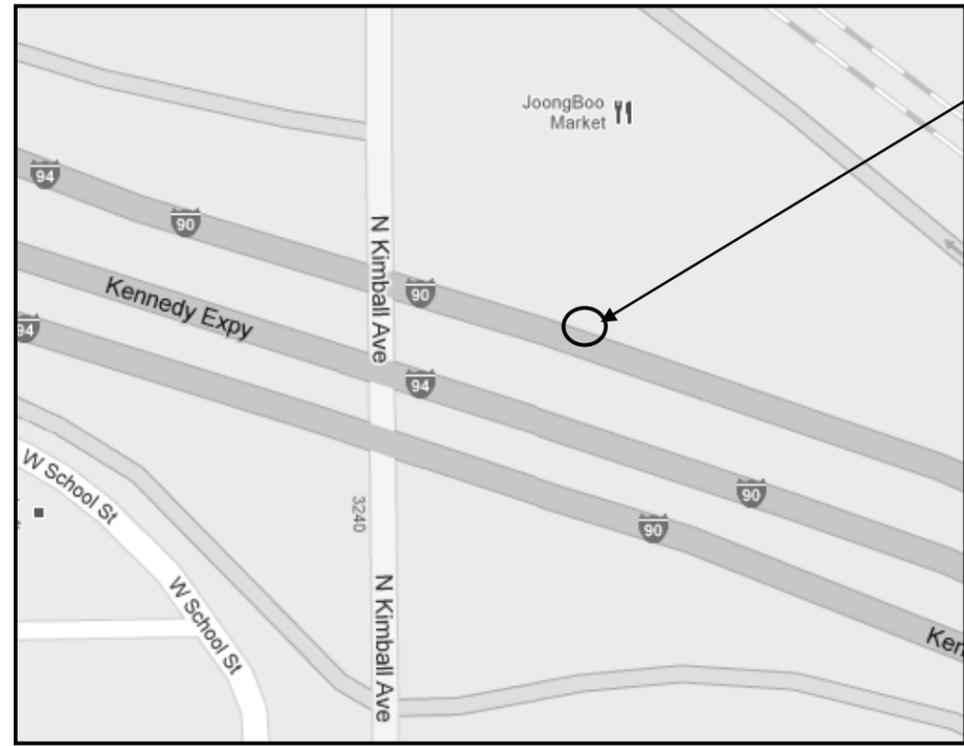
I-90/94: SPEED LIMIT = 55 MPH
2009 ADT = 303600

ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION: 20
I-90/94 (KENNEDY EXPY)
AT ARMITAGE AVE

R 13E

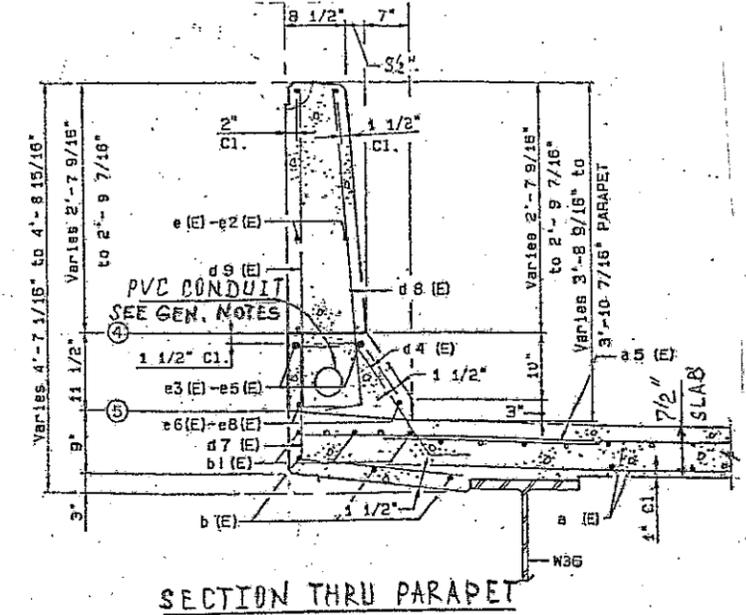
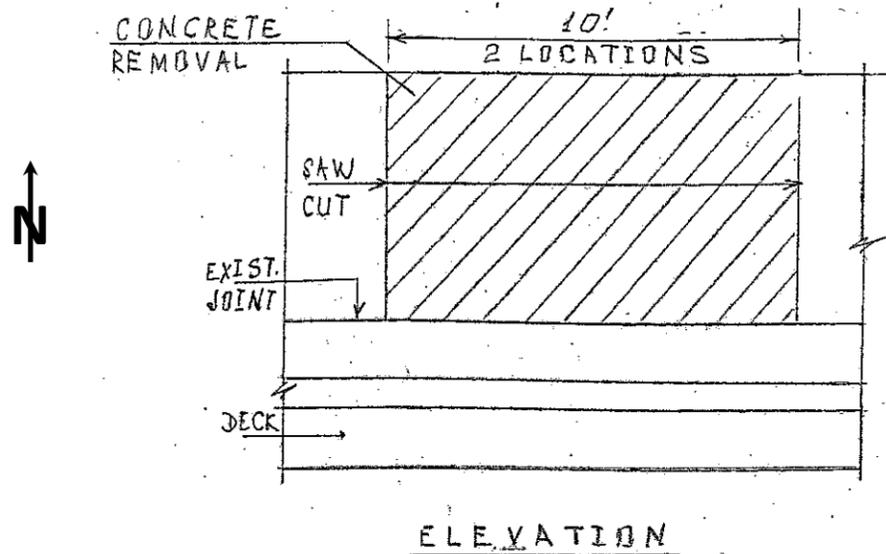
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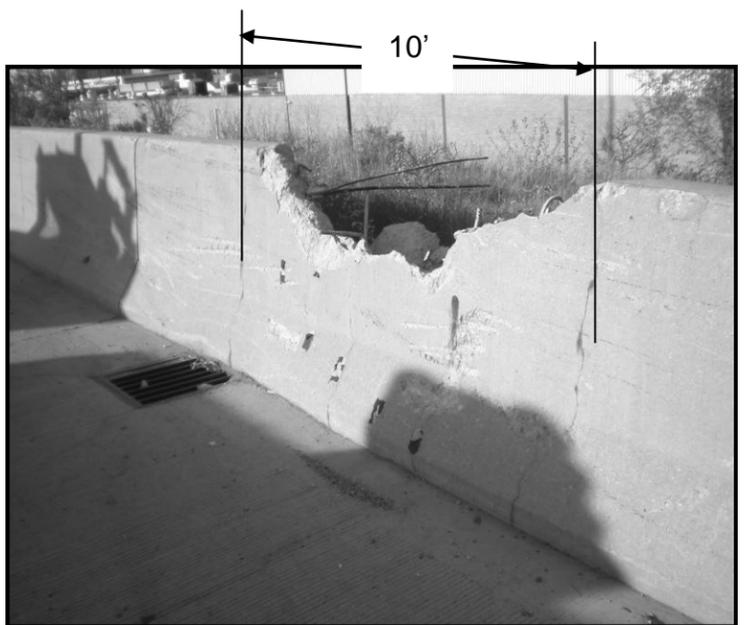
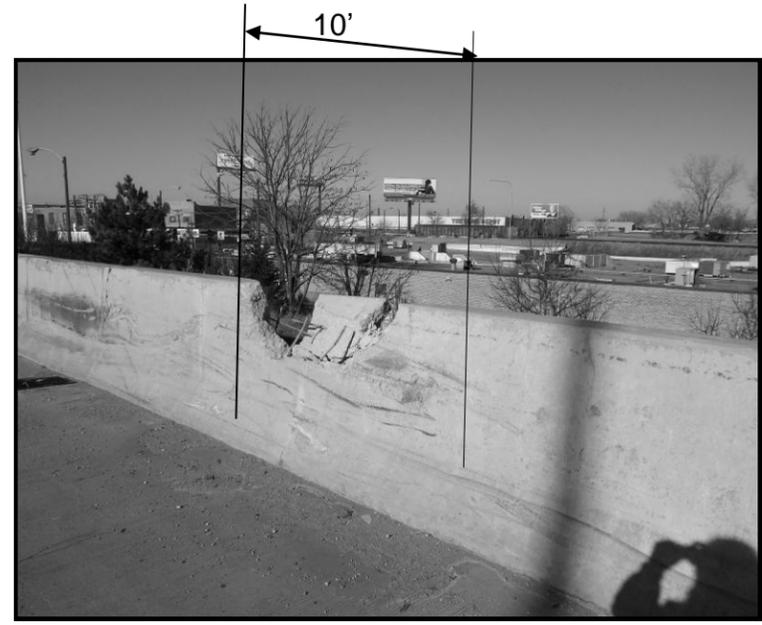
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-059-I	VARIOUS	44	34

Contract 60P77

LOCATION 21: I-90/94 (KENNEDY EXPY) WB
 NORTH OF KIMBALL AVE EXIT, RIGHT SIDE, 2 LOCATIONS – 10' LONG EACH.
 (APPR. 100' SOUTH OF THE OPENING WITH RAILS OVER KIMBALL AVE, ON THE BRIDGE, SN 016-0120)



CITY OF CHICAGO
 JEFFERSON TOWNSHIP
 COOK COUNTY



PARTIAL DEPTH REPAIR
 REPLACE 10 FT EACH OF BARRIER WALL
 FOR MORE DETAILS SEE SHEET #10

BILL OF MATERIALS (2 LOCATIONS)

BAR	NO	SIZE	LENGTH	SHAPE	
e(E)	12	#4	9'-10"	—	
d8(E)	20	#5	3'-5"	—	
d9(E)	20	#4	3'-5"	—	
REINFORCEMENT BARS EPOXY COATED				LBS	210
CONCRETE SUPERSTRUCTURE				CU YD	1.8
CONCRETE REMOVAL				CU YD	1.8
MECHANICAL SPLICE BARS				EACH	24
SAW CUTS				FOOT	31.0
PROTECTIVE COAT				SQ YD	10.4

THE BAR LENGTH SHALL BE VERIFIED IN FIELD PRIOR TO ORDERING THE REINFORCEMENT.

TRAFFIC DATA:

I-90/94: SPEED LIMIT = 55 MPH
 2009 ADT = 294500

KIMBALL AVE: SPEED LIMIT=20-30 MPH
 2009 ADT = 10000

ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION: 21
 I-90/94 (KENNEDY EXPY)
 AT KIMBALL AVE
 SN 016-0120

Designer: A. Gorengaut
 Checker: J. Midy

R 14E

T 39N

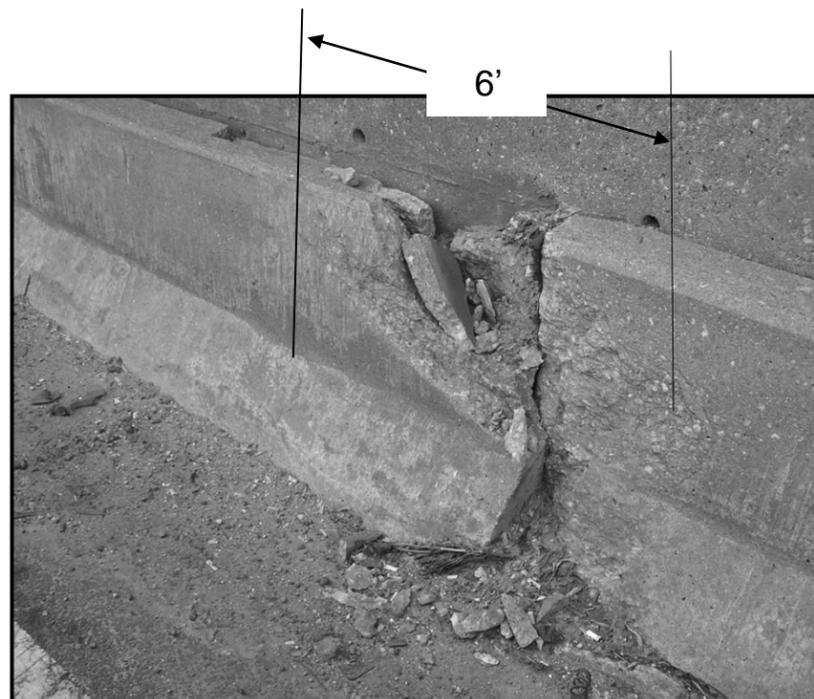
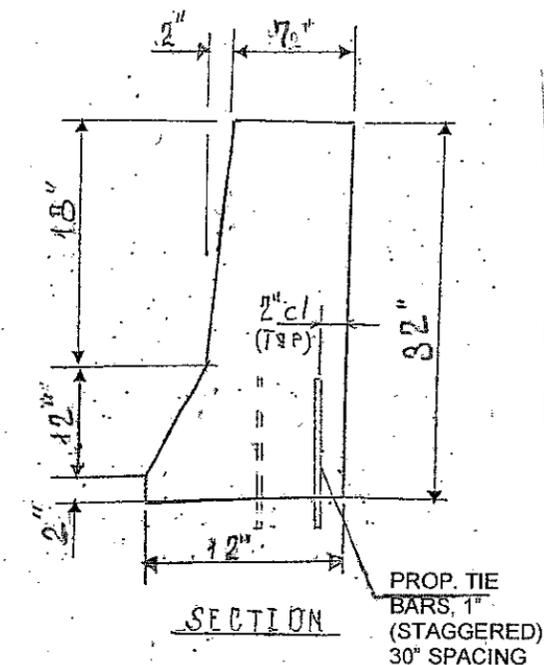
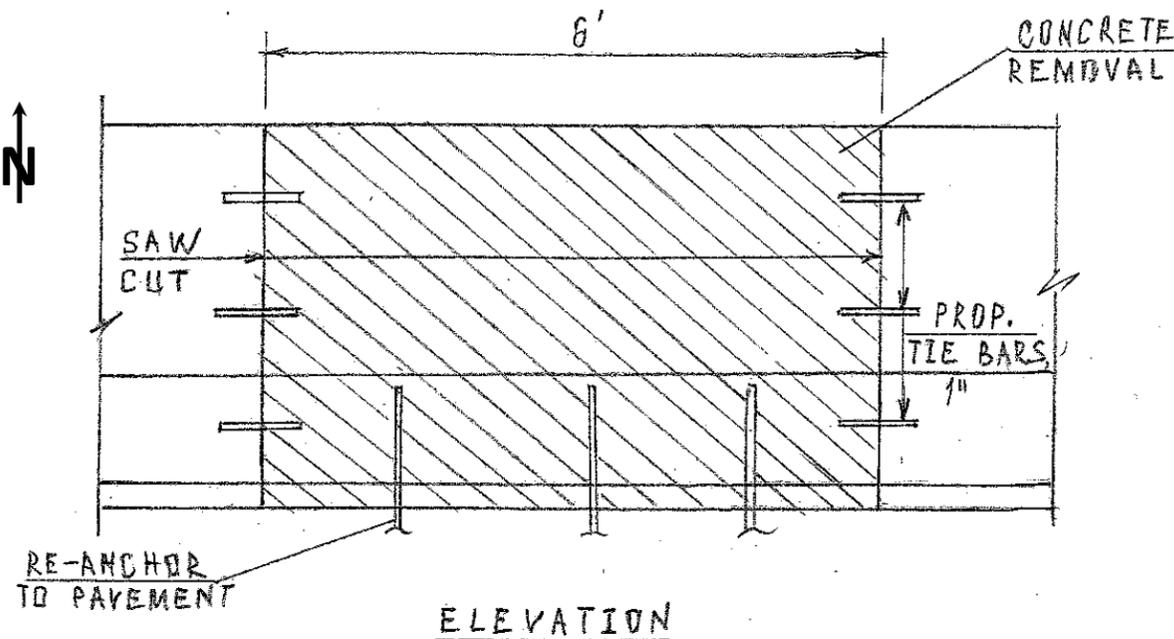


CITY OF CHICAGO
WEST CHICAGO TOWNSHIP
COOK COUNTY

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-059-I	VARIOUS	44	35

Contract 60P77

LOCATION 22: I-90/94 (KENNEDY EXPY) EB
AT THE ENTRANCE TO HUBBARD'S CAVE, RIGHT SIDE



FULL DEPTH REPAIR
REPLACE 6 FT OF BARRIER WALL
FOR MORE DETAILS SEE SHEET # 8

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU YD	0.5
CONCRETE STRUCTURE	CU YD	0.5
TIE BARS	EACH	9
SAW CUTS	FOOT	5.5
PROTECTIVE COAT	SQ YD	2.2

TRAFFIC DATA:

I-90/94: SPEED LIMIT = 55 MPH
2009 ADT = 284300

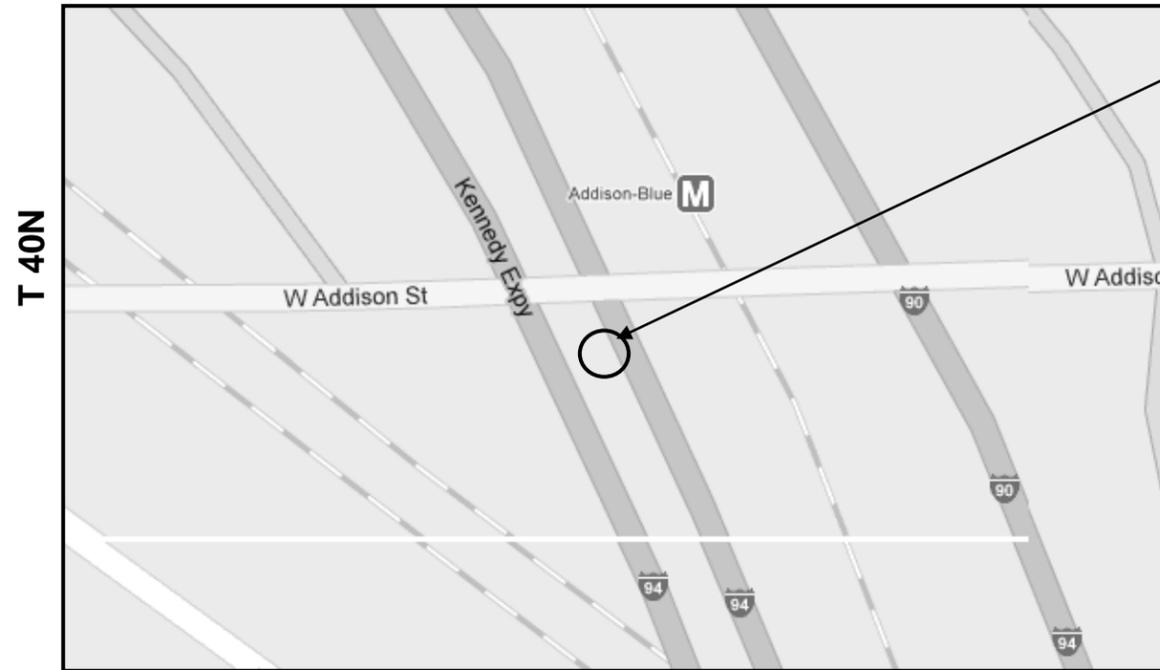
ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION: 22
I-90/94 (KENNEDY EXPY)
AT HUBBARD'S CAVE

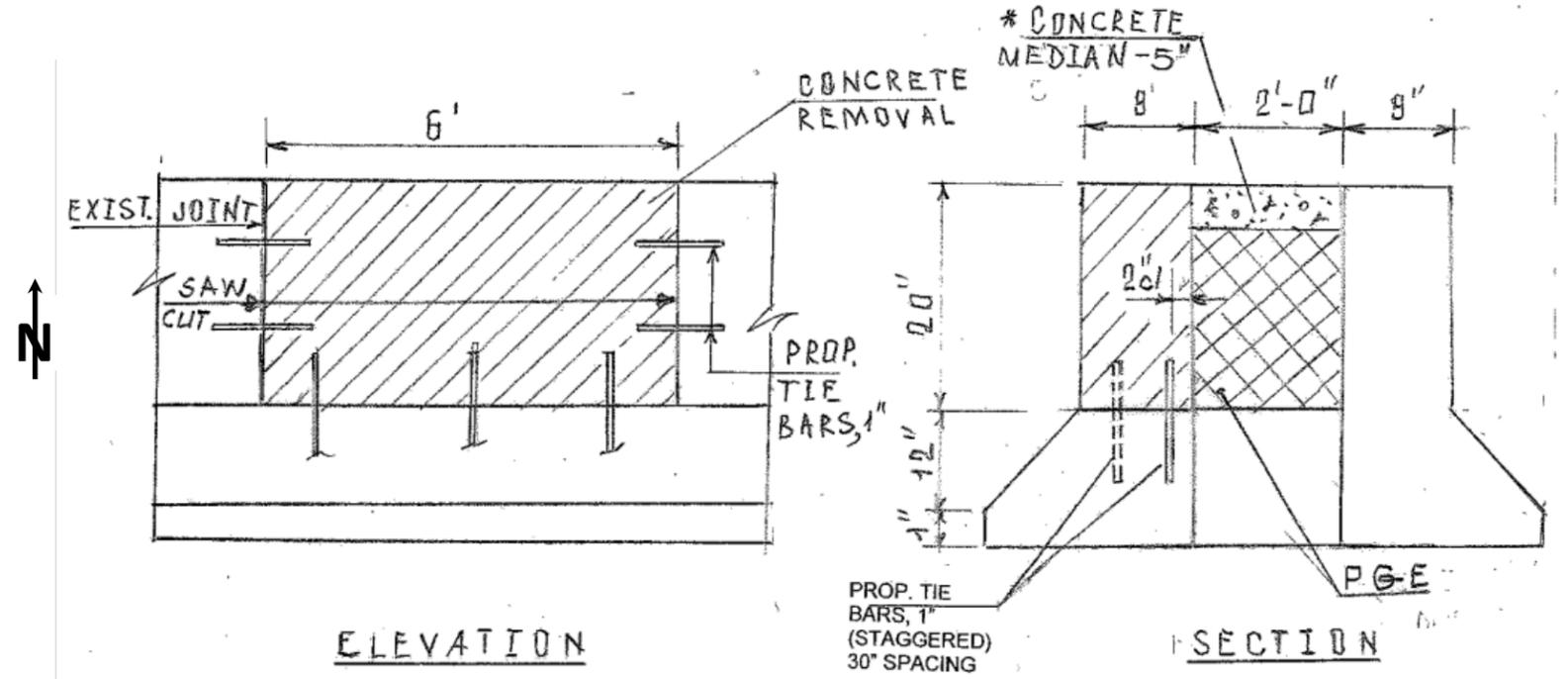
R 13E

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-059-1	VARIOUS	44	36

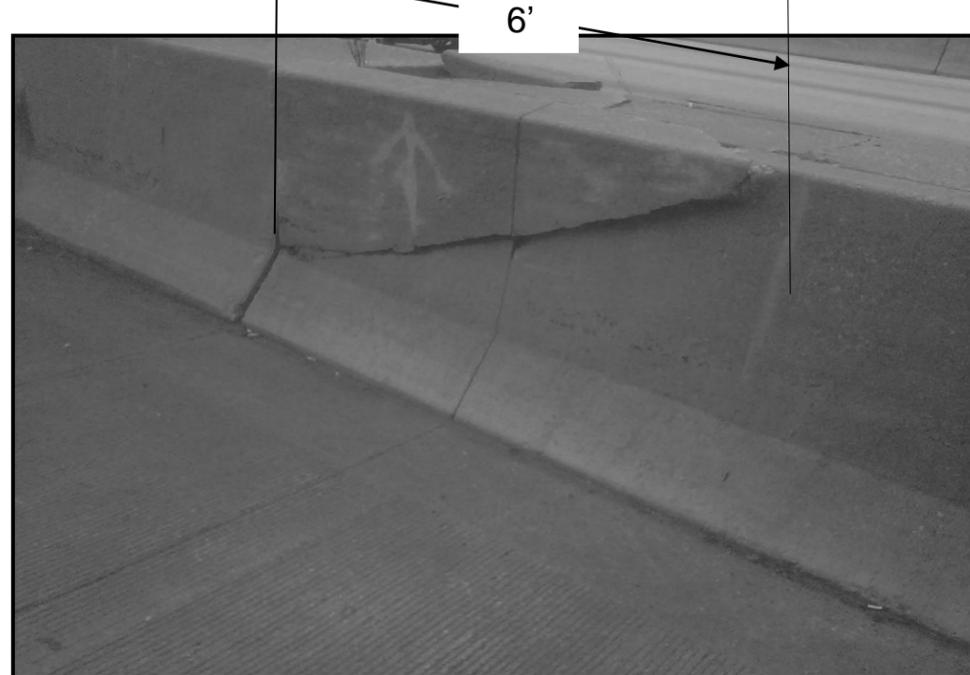
Contract 60P77



LOCATION 23: I-90/94 (KENNEDY EXPY) EB SE REVERSIBLES JUST SOUTH OF ADDISON ST AT MM 45/15, RIGHT SIDE.



CITY OF CHICAGO
JEFFERSON TOWNSHIP
COOK COUNTY



PARTIAL DEPTH REPAIR
REPLACE 6 FT OF BARRIER WALL
FOR MORE DETAILS SEE SHEET # 10

ITEM	UNIT	QUANTITY
EARTH EXCAVATION	CU YD	0.75
CONCRETE REMOVAL	CU YD	0.4
CONCRETE STRUCTURE	CU YD	0.4
POROUS GRANULAR EMBANKMENT	CU YD	0.6
SAW CUTS	FOOT	9.5
TIE BARS	EACH	7.0
PROTECTIVE COAT	SQ YD	3.8

THE COST OF CONCRETE MEDIAN REMOVAL IS INCLUDED IN THE COST OF "CONCRETE REMOVAL".
THE COST OF CONCRETE MEDIAN-5" IS INCLUDED IN "CONCRETE STRUCTURE"

TRAFFIC DATA:

I-90/94: SPEED LIMIT = 55 MPH
2009 ADT = 312800

ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION: 23
I-90/94 (KENNEDY EXPY)
REVERSIBLES SOUTH OF ADDISON

R 13E

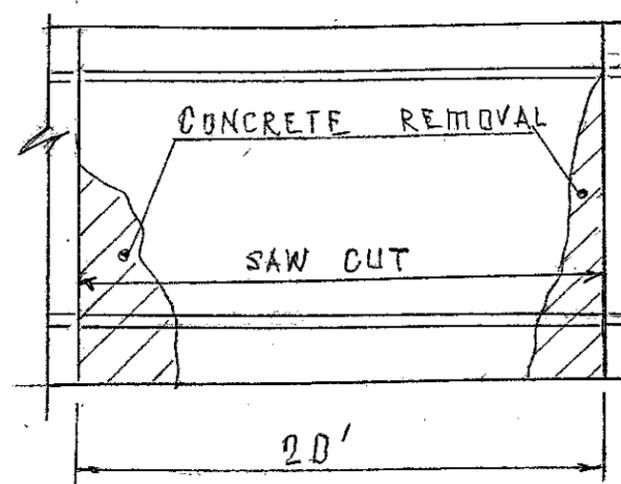
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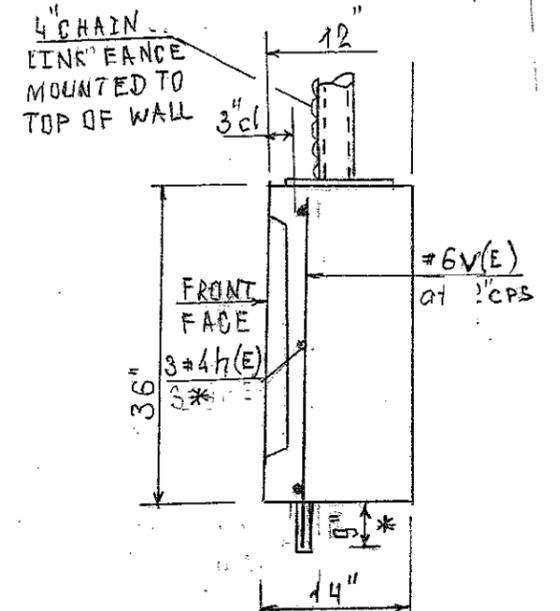
LOCATION 24: HENDERSON & DRAKE
EAST FRONTAGE RD, SOUTH OF ADDISON
AND NORTH OF KIMBALL

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2010-059-I	VARIOUS	44	37

Contract 60P77

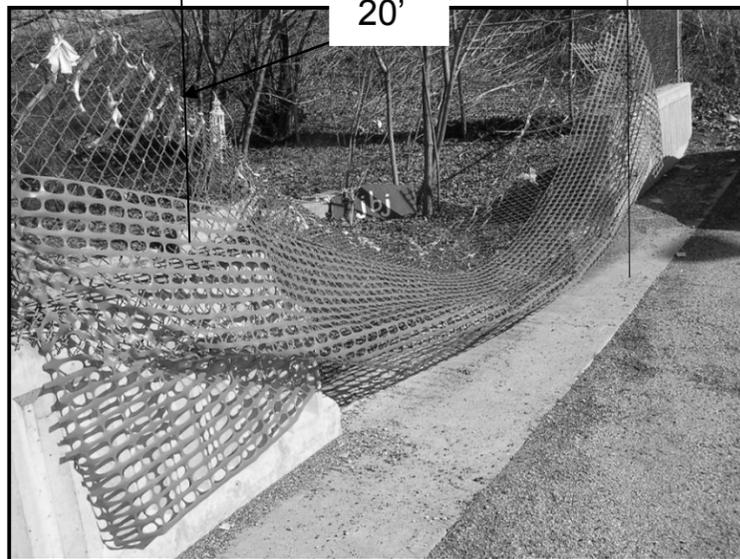


ELEVATION



SECTION

CITY OF CHICAGO
JEFFERSON TOWNSHIP
COOK COUNTY



REPLACE 20 FT OF RETAINING WALL
FOR MORE DETAILS SEE SHEET # 2 OF 2

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONCRETE REMOVAL	CU YD	0.5
CONCRETE STRUCTURE	CU YD	2.4
MECHANICAL SPLICERS	EACH	6
CHAIN LINK FENCE, 4'	FOOT	24
PROTECTIVE COAT	SQ YD	9.5
SAW CUTS	FOOT	6
REINFORCEMENT BARS (EPOXY COATED)	LBS	150
TOP SOIL FURNISH AND PLACE, 4"	SQ YD	7.0
SEEDING CLASS 2A	ACRE	0.0014

REINFORCEMENT BARS

BAR NO	SIZE	LENGTH	SHAPE
v(E) 20	#6	3'-6"	—
h(E) 3	#4	19'-10"	—

EPOXY GROUT #6V(E) AND #4H(E) BARS ACCORDING TO ART. 584 OF THE STANDARD SPECIFICATIONS. COST INCLUDED WITH REINFORCEMENT BARS EPOXY COATED.

THE CONTRACTOR SHALL MATCH EXISTING WALL PATTERN.

TRAFFIC DATA:

HENDERSON ST: SPEED LIMIT = N/A
2009 ADT = N/A

SHEET 1 OF 2

ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION: 24
HENDERSON AND DRAKE

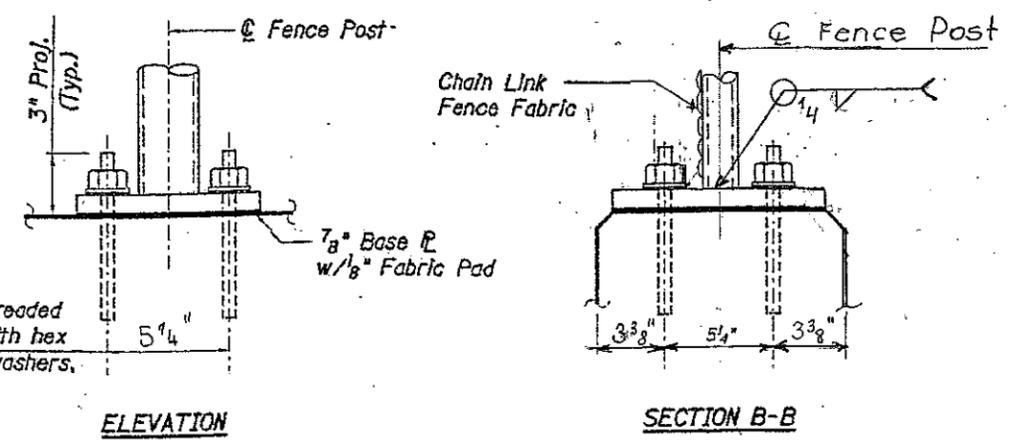
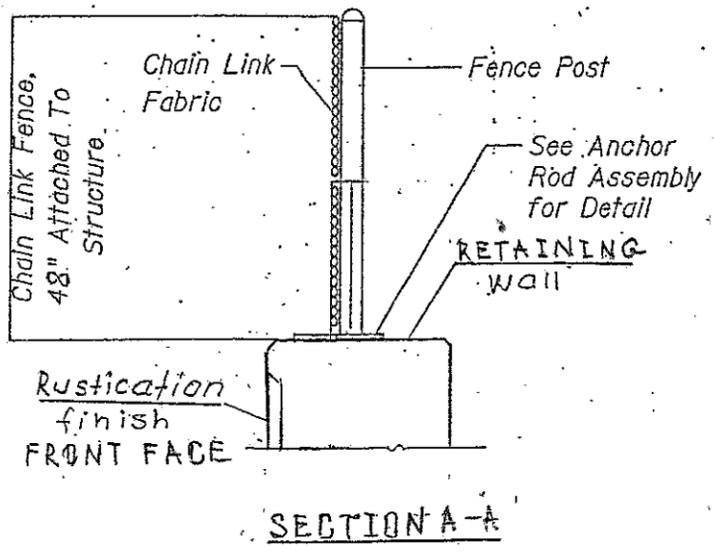
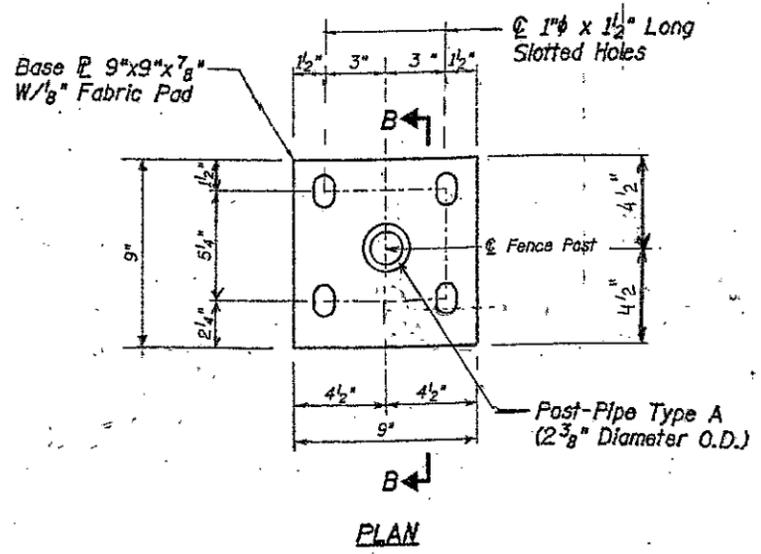
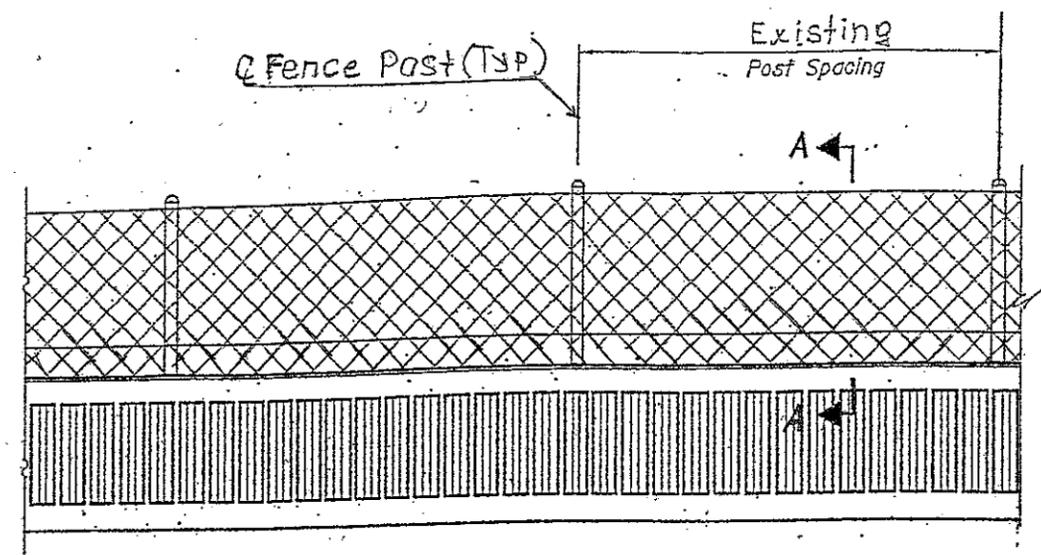
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
VARIOUS	2011-059-1	VARIOUS	44	38

Contract 60P77

NOTES:

1. THREADED RODS, NUTS AND WASHERS SHALL CONFORM TO AASHTO M164.
2. NUTS FOR 5/8" DIAMETER THREADED ANCHOR RODS CONNECTING THE BASE PLATE TO THE CONCRETE TO BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL 1/8" TURN.
3. THE COST OF FURNISHING, DRILLING AND INSTALLING BASE PLATE AND THREADED ANCHOR RODS INCLUDING HEX NUTS AND LOCK WASHERS IS INCLUDED IN THE COST OF "CHAIN LINK FENCE, 4".
4. IN LIEU OF THE COST-IN-PLACE ANCHOR DEVICE SHOWN, THE CONTRACTOR HAS THE OPTION OF DRILLING AND SETTING 5/8" DIAMETER ANCHOR RODS ACCORDING TO ARTICLE 509.06 OF THE STANDARD SPECIFICATIONS. EMBEDMENT SHALL BE ACCORDING TO THE MANUFACTURER SPECIFICATIONS.
5. POSTS SHALL NOT BE LOCATED CLOSER THAN 6" TO AN EXPANSION JOINT OR THE END OF THE RETAINING WALL.
6. ALL STEEL ELEMENTS SHALL BE GALVANIZED ACCORDING TO ARTICLE 509.05 OF THE STANDARD SPECIFICATIONS.

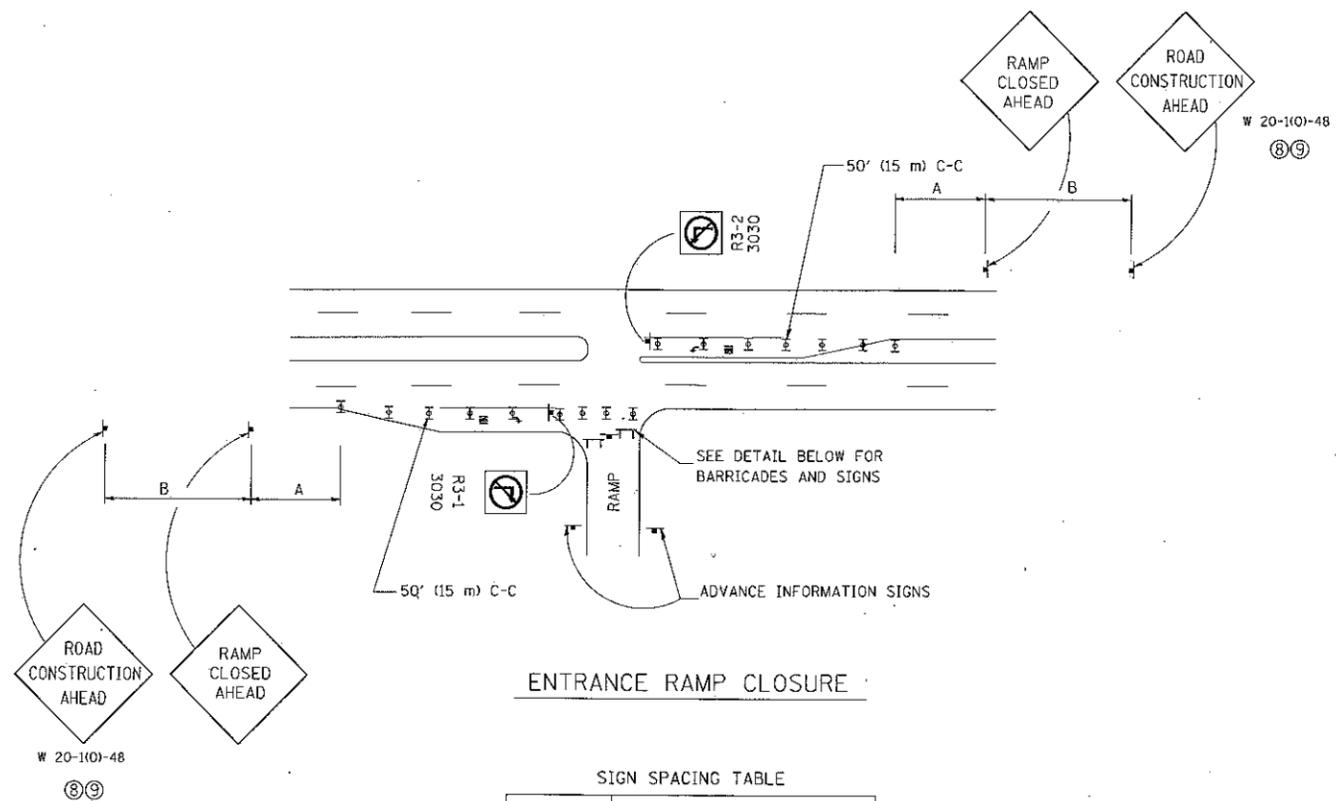
RETAINING WALL AND CHAIN LINK FENCE



ANCHOR ROD ASSEMBLY DETAILS

SHEET 2 OF 2

ILLINOIS DEPARTMENT OF TRANSPORTATION
 LOCATION 24
 POST INSTALLATION DETAIL
 FOR CHAIN LINK FENCE



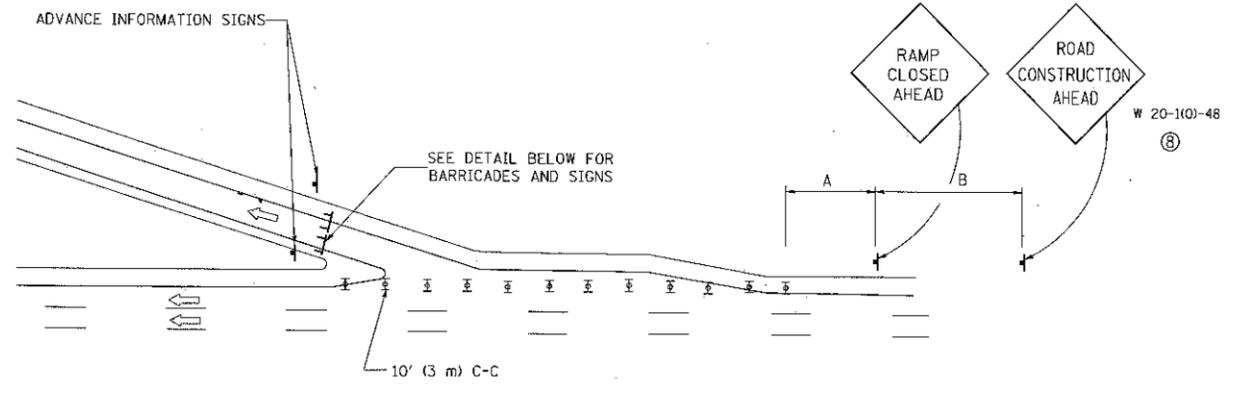
ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY <24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL >45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	150' (45 m)	150' (45 m)

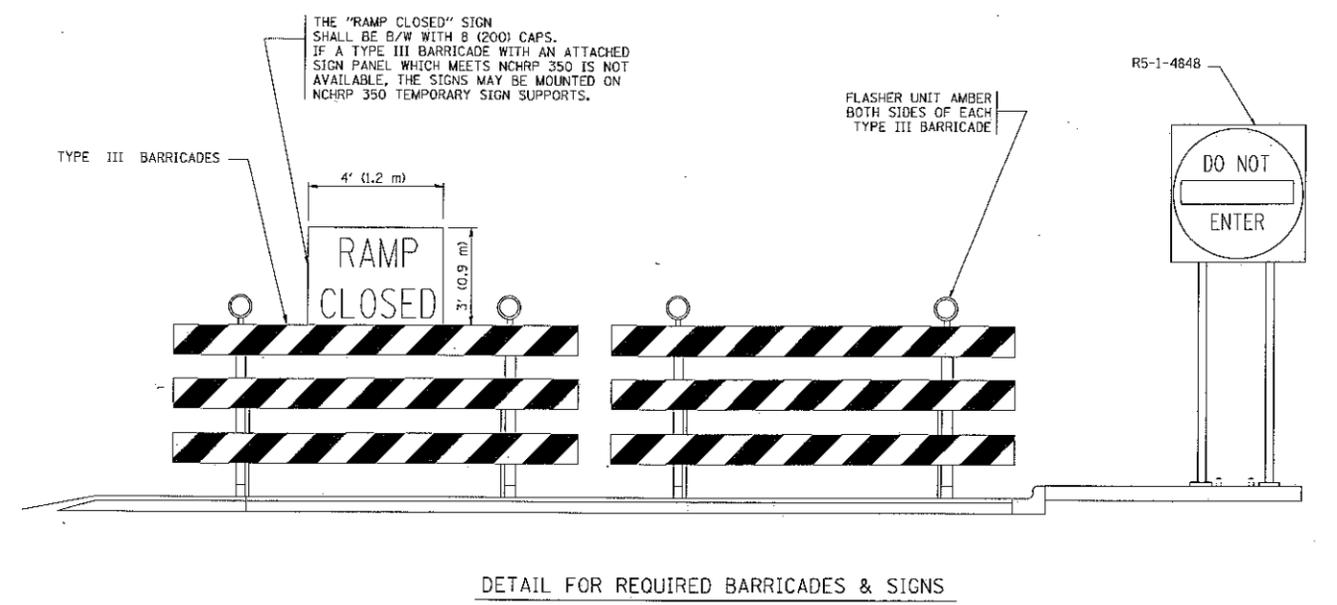
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.

W 20-100-48 (8) (9)

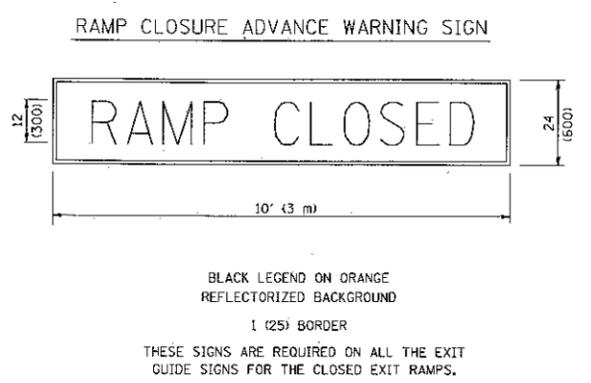


EXIT RAMP CLOSURE

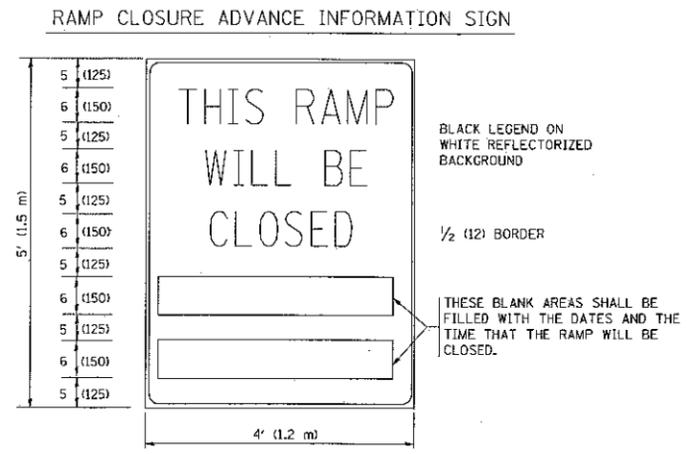
- SYMBOLS**
- ⊞ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
 - ⊞ TYPE III BARRICADE WITH FLASHING LIGHT



DETAIL FOR REQUIRED BARRICADES & SIGNS



BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND
1 (25) BORDER
THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE CLOSED EXIT RAMPS.



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

GENERAL NOTES:

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
- ⑤ THE SIGNING AND BARRICADEING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY-FOUR (24) HOURS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED ON CLOSURES LESS THAN 24 HOURS IN DURATION.

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

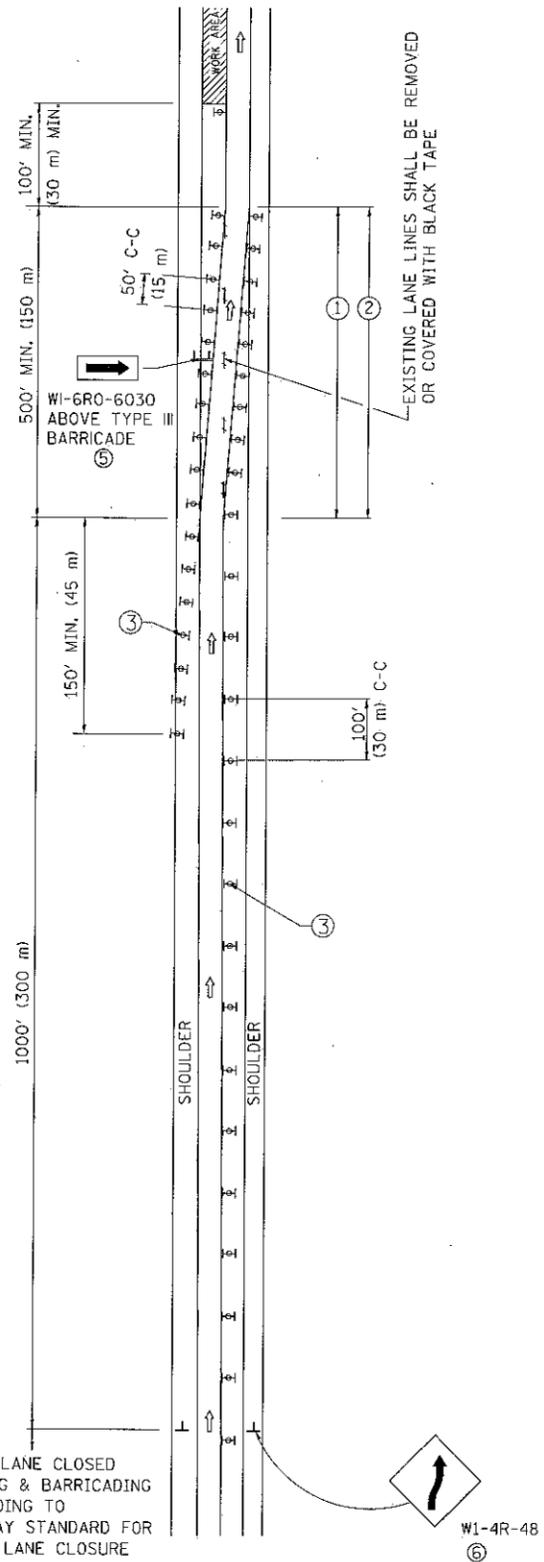
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		CHECKED -	REVISED - SPB 01-07
		DATE - 02-83	REVISED - SPB 12-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

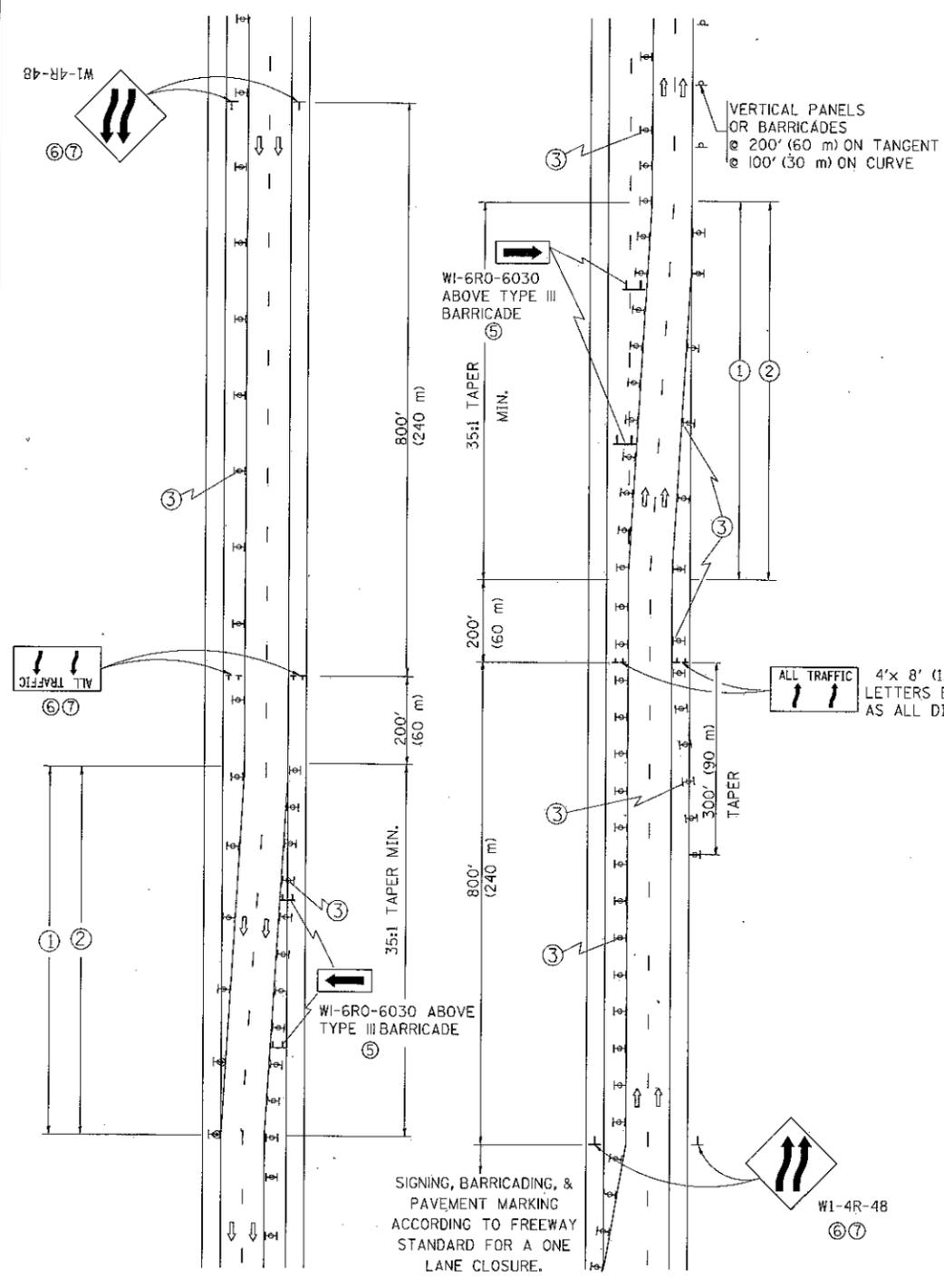
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR 2011-059-1	TC-08	COOK	44	39
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT	

SINGLE LANE WEAVE



MULTI-LANE WEAVE



- ### GENERAL NOTES
- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 24 HOURS IN DURATION.
 - CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
 - PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
 - ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
 - IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS. TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
 - WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
 - THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

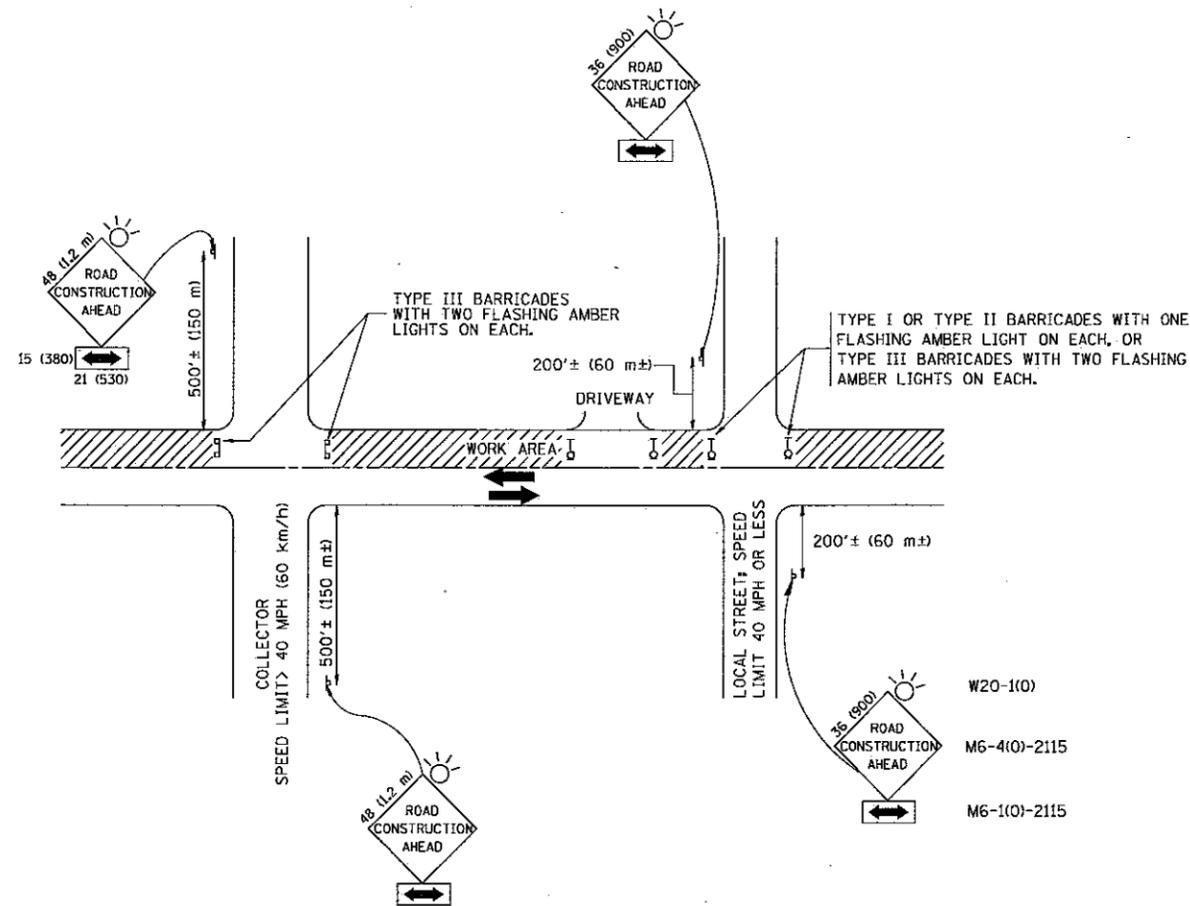
SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT

W24-1-48
⑦

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = W:\dotatad\22x34\to09.dgn	USER NAME = teuso	DESIGNED - DWS	REVISED - JAF 01-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 50,000 / IN.	CHECKED -	REVISED - JAF 02-06	REVISED - SPB 01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	VAR 2011-053-1	COOK	44	40
PLOT DATE = 1/26/2010	DATE - 02-07	REVISED - SPB 12-09			TC-09				CONTRACT NO. 60P77			
									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

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 AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

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. 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.

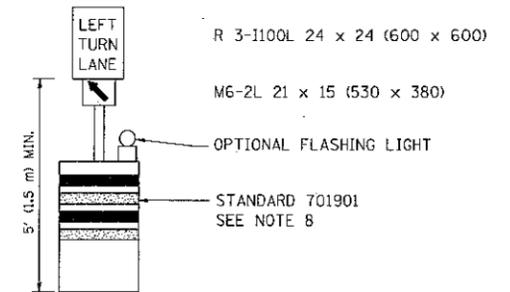
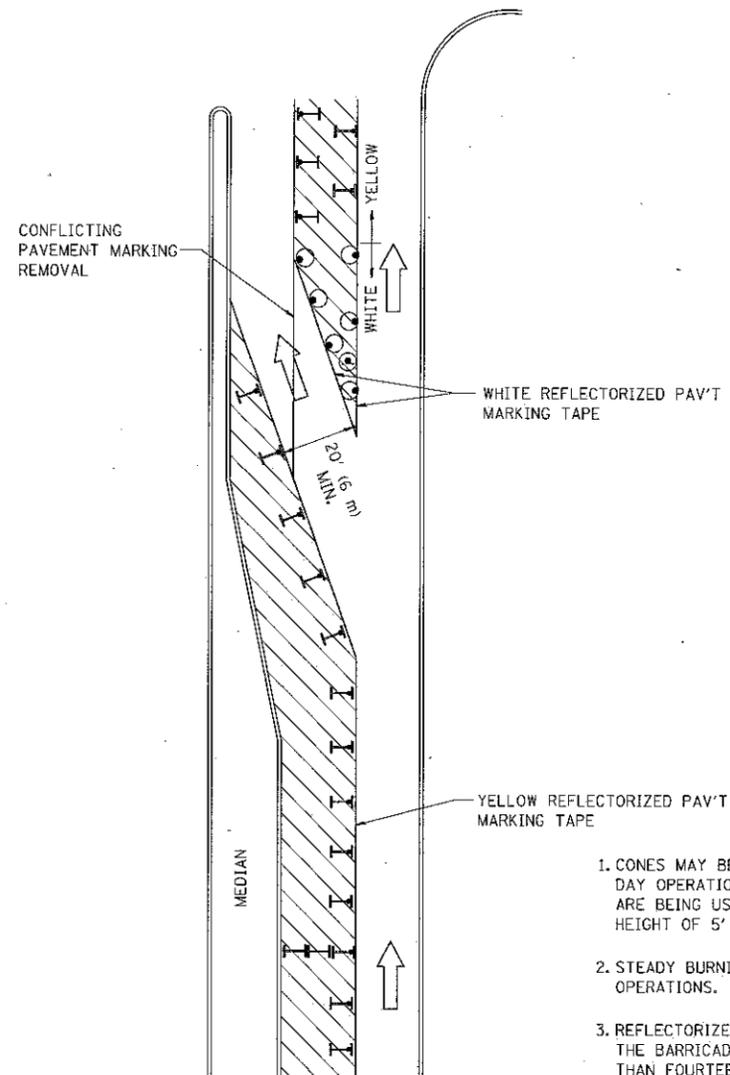
FILE NAME = W:\distatd\22x34\vtcl&dgn	USER NAME = goglienobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
		PLOT SCALE = 50.000' / IN.	REVISED - A. HOUSEH 10-15-96
		PLOT DATE = 1/4/2008	REVISED - T. RAMMACHER 01-06-00
		DATE - 06-89	

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. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2011-059-T	COOK	44	41
	TC-10		CONTRACT NO. 60P77	
FED. ROAD DIST. NO. 1 ILLINOIS/FED. AID PROJECT				



GENERAL NOTES

1. 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. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II 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.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

LEGEND

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

FILE NAME =	USER NAME = drivekaagn	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORD 09-14-09
ct:\p\work\PIWIDOT\DRIVAK\OSCH\0106315\14.dgn		REVISED - A. HOUSEH 11-07-95	REVISED -
		REVISED - A. HOUSEH 10-12-96	REVISED -
		REVISED - T. RAMMACHER 01-06-00	REVISED -

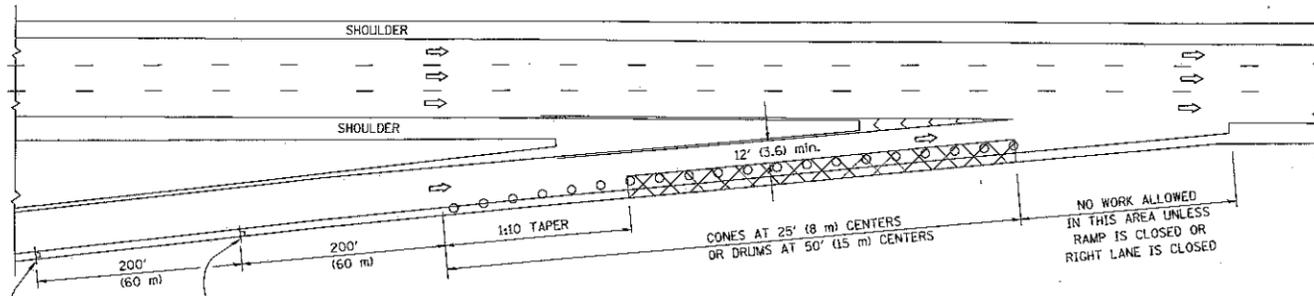
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

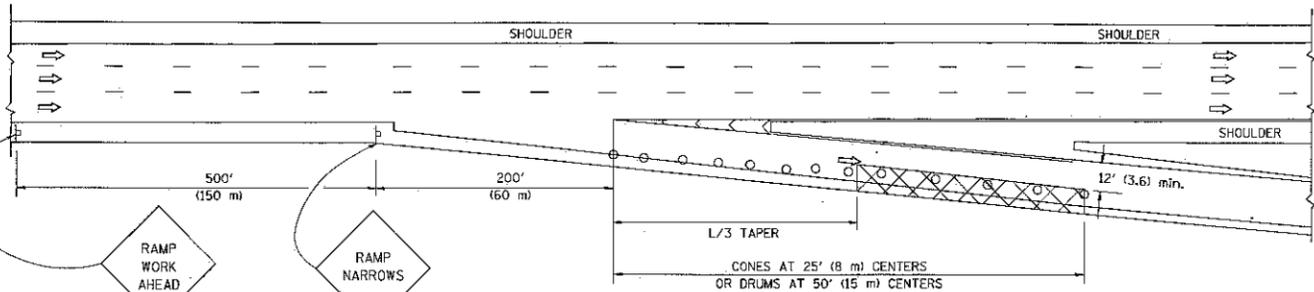
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2011-059-T	COOK	44	40
	TC-14		CONTRACT NO. 60P77	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

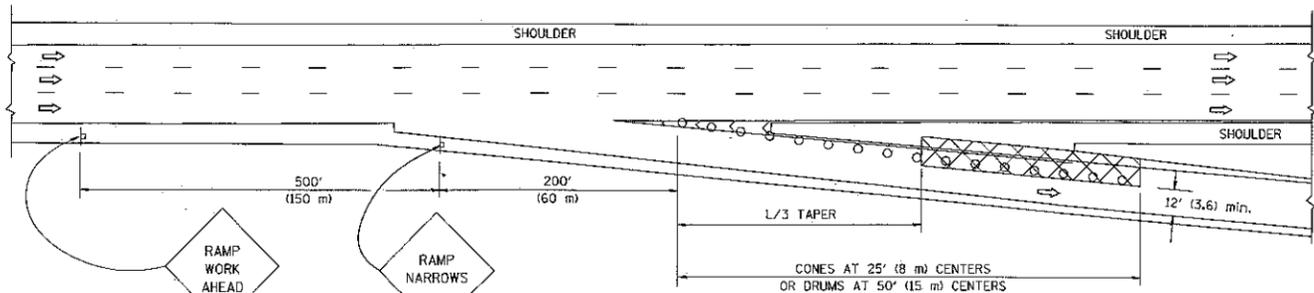
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

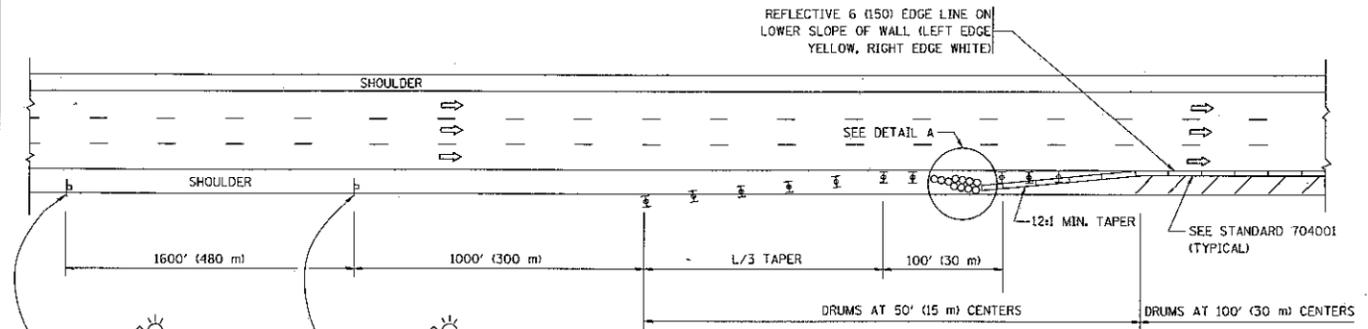
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

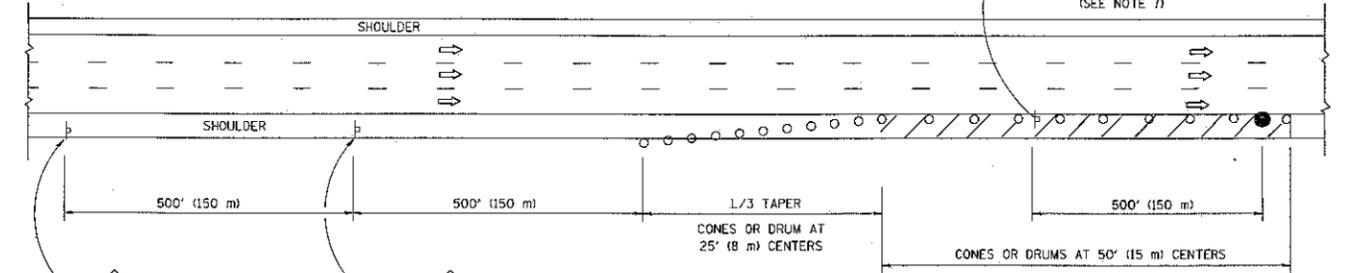
1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC: $L=0.65(WKS)$ ENGLISH: $L=(WKS)$
	W = WIDTH OF OFFSET IN FEET (METERS)
	S = NORMAL POSTED SPEED MPH (KM/H)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS

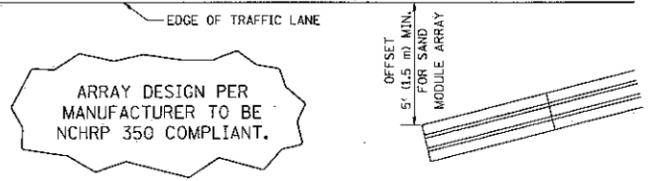


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

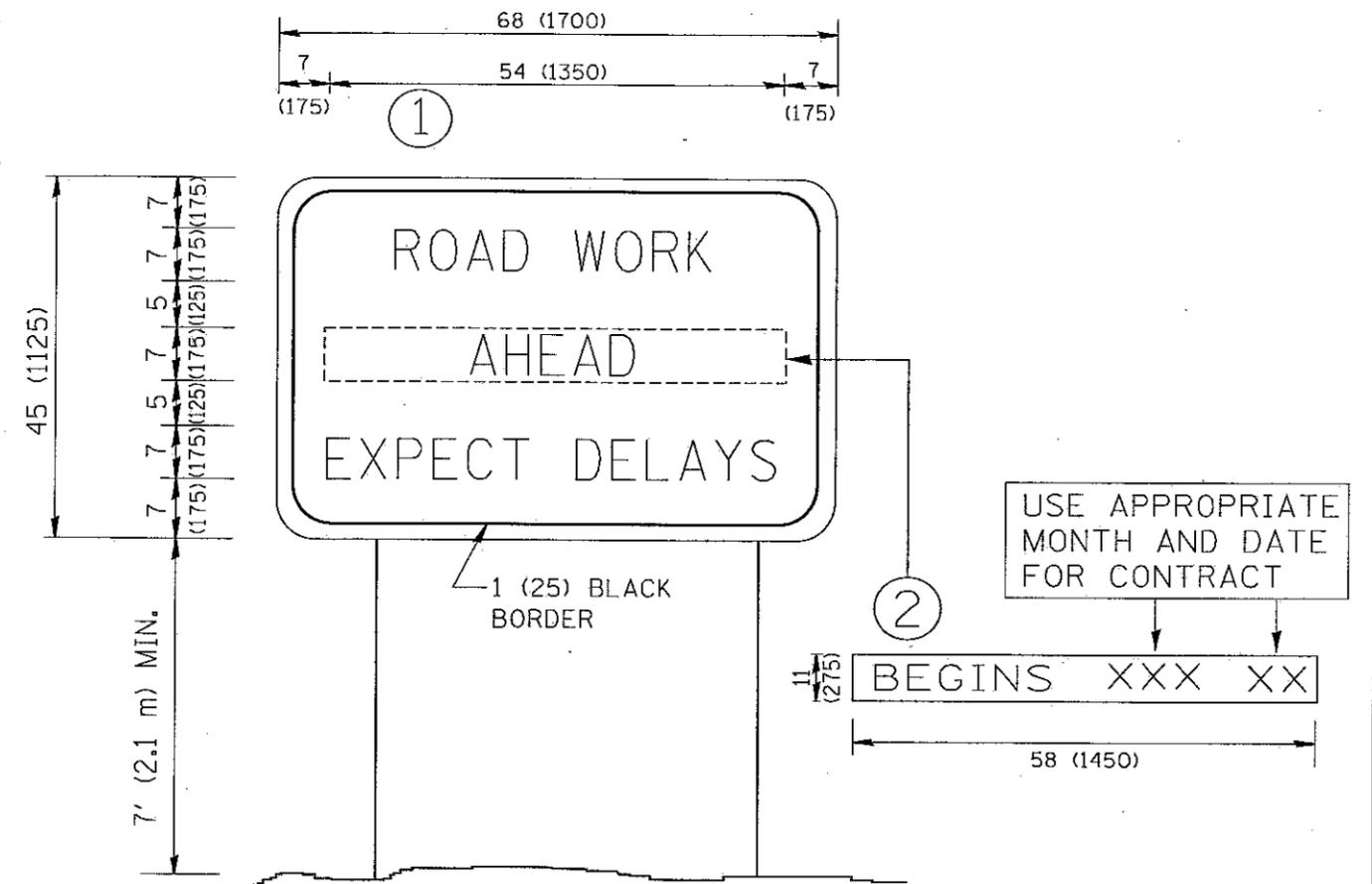


ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350 COMPLIANT.

DETAIL "A"
 IMPACT ATTENUATOR, TEMPORARY
 (SEE NOTE 5)

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

FILE NAME = M:\dstated\22x34\tbl7.dgn	USER NAME = lcyso	DESIGNED -	REVISED - 04-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES	F.A. RTE.	SECTION.	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - D.W.S.	REVISED - J.A.F. 12-06		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	VAR 2011-059-1	COOK	44	43
		CHECKED -	REVISED - S.P.B. 01-07		SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	TC-17			
		DATE - 11-96	REVISED - S.P.B. 12-09		SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	



NOTES:

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

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

FILE NAME = W:\distate\22x34\tc22.dgn	USER NAME = goglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.000 '' / IN.	DRAWN -	REVISED - R. MIRS 12-11-97			VAR 2011-059-L	COOK	44	44	
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 02-02-99			TC-22	CONTRACT NO. 60P77			
		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