

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0094	2021-158-BDR&BJR	COOK	13	1

* 13 + 1 = 14 TOTAL SHEETS

D-91-058-22



LOCATION OF SECTION INDICATED THUS: -

FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION
19094: INTERSTATE
WAYMAN ST: LOCAL

19094
WAYMAN ST

ADT 229,400 (2019)
ADT 725 (2018)

DESIGN SPEED (POSTED SPEED)
19094
WAYMAN ST

45 MPH (45 MPH)
30 MPH (30 MPH)

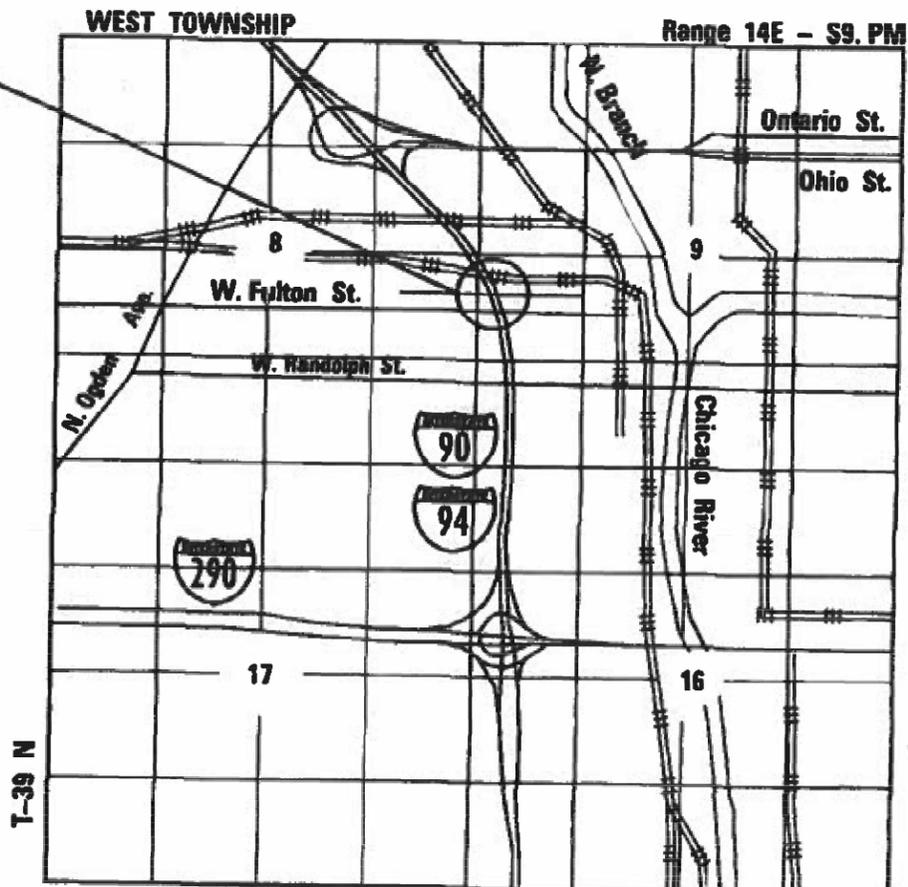
IMPROVEMENT LOCATED IN
THE CITY OF CHICAGO

**PROPOSED
HIGHWAY PLANS**

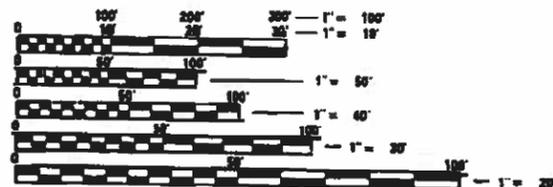
FAI ROUTE 90/94: I-90/94 (KENNEDY EXPWY)
SECTION 2021-158-BDR&BJR
UNDER WAYMAN ST
BRIDGE DECK AND JOINT REPAIRS
COOK COUNTY

C-91-052-22

PROJECT LOCATION
I-90/94 UNDER WAYMAN ST.
STRUCTURE NO: 016-2020



GROSS LENGTH = 200 FT. = 0.038 MILE
NET LENGTH = 200 FT. = 0.038 MILE



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

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

PROJECT ENGINEER: PRAVEEN KAINI (847) 705-4237
PROJECT MANAGER: JEAN ALAIN MIDY (847) 221-3056

CONTRACT NO. 62P80



Amber Seiber
AMBER M. SEIBER, S.E., P.E.
EXP. 11/30/2022
SHEETS: 6-12



Zachary J. Tanner
ZACHARY J. TANNER, P.E.
EXP. 11/30/2023
SHEETS: 1-5

COLLINS ENGINEERS
550 W. JACKSON BLVD., SUITE 1200
CHICAGO, IL 60661
(312) 704-9300
ILLINOIS PROFESSIONAL DESIGN FIRM
LICENSE NO. 04-000993

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED DECEMBER 15, 21
John Brokaw
REGIONAL ENGINEER

February 4, 2022
Stephen M. Laid
ENGINEER OF DESIGN AND ENVIRONMENT

February 4, 2022
Stephen M. Laid
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
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2	GENERAL NOTES, INDEX OF SHEETS AND HIGHWAY STANDARDS
3	SUMMARY OF QUANTITIES
4	MAINTENANCE OF TRAFFIC-STAGE 1
5	MAINTENANCE OF TRAFFIC-STAGE 2
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12	TC-17 TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
13	TC-26 DRIVEWAY ENTRANCE SIGNING
13A	TC-8 ENTRANCE AND EXIT RAMP CLOSURE DETAILS

INDEX OF HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
701400-11	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS GREATER THAN 45 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701446-11	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

COMMITMENTS

NONE.

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 HOUR NOTICE IS REQUIRED).
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE LOCAL MUNICIPALITY.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE RIGHT-OF-WAY OR PROPERTY WITHOUT PRIOR WRITTEN PERMISSION FROM THE ENGINEER.
- WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- BEFORE BEGINNING ANY WORK THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL MAINTAIN ALL ROADWAYS OPEN TO TRAFFIC AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS.
- THE CONTRACTOR SHALL CONTACT THE IDOT DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT 847-705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
- PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE THE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- DURING CONSTRUCTION OPERATIONS, IF ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE FROM DUST AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- DO NOT SCALE PLANS FOR CONSTRUCTION PURPOSES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TAKE WHATEVER PRECAUTIONS WHICH MAY BE NECESSARY TO PROTECT THE PROPERTY OF THE VARIOUS PUBLIC UTILITIES WHICH MAY BE LOCATED UNDERGROUND OR ABOVE GROUND, AT OR ADJACENT TO THE SITE OF THIS IMPROVEMENT. HE WILL BE REQUIRED TO REPAIR OR REPLACE AT HIS OWN EXPENSE, OR BEAR THE COST, TO REPAIR OR REPLACE, ANY PUBLIC UTILITY PROPERTY WHICH HAS BEEN DAMAGED THROUGH HIS EFFORTS.
- THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM DISTRICT 1 BRIDGE INSPECTORS.

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PLOT DATE = 1/27/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, INDEX OF SHEETS AND HIGHWAY STANDARDS
I-90/94 (KENNEDY EXPWY) UNDER WAYMAN ST**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0094	2021-158-BDR&BJR	COOK	13	2
CONTRACT NO. 62P80			ILLINOIS FED. AID PROJECT	

SCALE: SHEET OF SHEETS STA. TO STA.

FILE NAME = I:\18303.PTB.1B2.84\18303.38-Variou Projects\CADD\CADD_Sheets\18303.38-0162057-ht-500.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTR. CODE	
				100% STATE	
				BRIDGE 0047	016-2020
50102400	CONCRETE REMOVAL	CU YD	20.9	20.9	
50157300	PROTECTIVE SHIELD	SQ YD	85	85	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	11.2	11.2	
50300300	PROTECTIVE COAT	SQ YD	109	109	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2850	2850	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3	
67100100	MOBILIZATION	L SUM	1	1	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	162.5	162.5	
70600240	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 2	EACH	1	1	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	541	541	
X0326766	CLEAN & RESEAL RELIEF JOINT	FOOT	224	224	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	162	162	
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	4	4	
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	37	37	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	13	13	

* SPECIALTY ITEM



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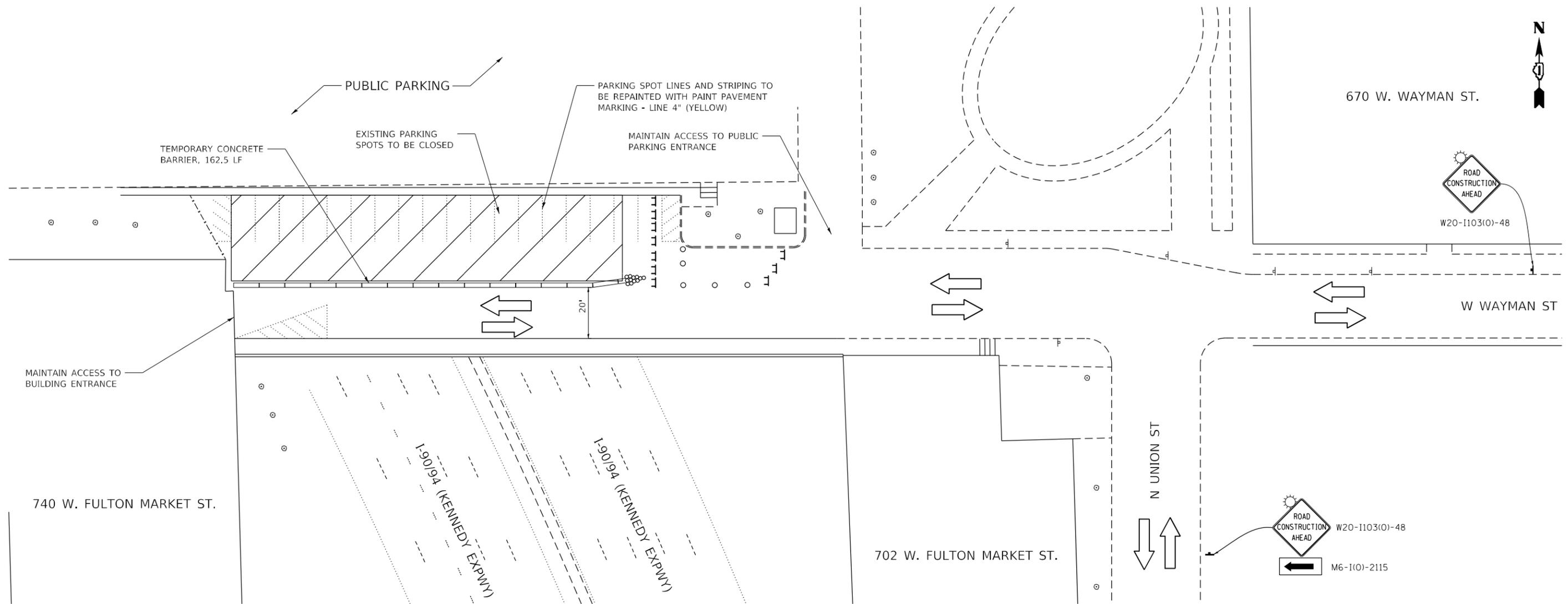
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
I-9094 (KENNEDY EXPWY) UNDER WAYMAN ST

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0094	2021-158-BDR&BJR	COOK	13	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62P80	

FILE NAME = I:\10303 PTB 182 04\10303_30 - Various Projects\CADD\CADD_Sheets\10303_30-0162657-ht-Stage1.dgn



PRE-STAGE & POST-STAGE NOTES:

- 1.) SEE SPECIAL PROVISIONS TITLED TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- 2.) WORK IN THIS STAGE CONSISTS OF INSTALLING TEMPORARY PROTECTIVE SHIELDING THAT IS REQUIRED PRIOR TO ANY DECK REMOVAL FOR STAGE 1.
- 3.) TRAFFIC CONTROL FOR WORK DURING THIS STAGE WILL CONSIST OF NIGHTLY LANES CLOSURES THAT ARE IN ACCORDANCE WITH HIGHWAY STANDARDS 701400, 701401, 701411, 701428, 701446 & TC-17.
- 4.) 3-LANE CLOSURES SHALL ONLY BE PERMITTED FROM THE LEFT. ONLY A MAXIMUM 2-LANE CLOSURES WILL BE PERMITTED FROM THE RIGHT.
- 5.) TAPERS SHALL NOT BE PLACED INSIDE HUBBARD'S CAVE.

NOTES:

- 1.) SEE SPECIAL PROVISIONS TITLED TRAFFIC CONTROL AND PROTECTION (ARTERIALS).
- 2.) THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PRIVATE DRIVES AND COMMERCIAL PROPERTY DURING ENTIRE DURATION OF THE PROJECT. SIGNING SHALL BE PROVIDED FOR ALL DRIVEWAY ENTRANCES PER DISTRICT DETAIL TC-26.
- 3.) THE CONTRACTOR SHALL COORDINATE WITH THE BUILDING MANAGER OF 740 W. FULTON MARKET STREET AND PROVIDE A MINIMUM ONE WEEK NOTICE PRIOR TO SETUP OF STAGE ONE AND ANY CLOSURES OF PARKING SPOTS.
- 4.) THE CONTRACTOR SHALL REMOVE AND SAFELY STORE (FREE FROM THEFT OR DAMAGE) OR COVER ALL CONFLICTING EXISTING SIGNS FOR THE DURATION OF THE CONSTRUCTION. ALL SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE END OF CONSTRUCTION. COST INCLUDED WITH TRAFFIC CONTROL & PROTECTION (SPECIAL).
- 5.) THE FOLLOWING APPLY TO CONSTRUCTION SIGNS:
 - A) THE CONTRACTOR SHALL FURNISH ALL SIGNS.
 - B) THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND REPLACE ANY SIGNS THAT ARE SUPPLIED BY OTHERS AND DAMAGED BY THE CONTRACTOR'S WORK FORCE OR SUBCONTRACTORS DURING RELOCATION OR CONSTRUCTION OPERATIONS.
 - C) ALL SIGNS AND ASSEMBLIES SHALL BE CERTIFIED BY THE CONTRACTOR AS MEETING THE APPLICABLE REQUIREMENTS OF NCHRP REPORT 350. TEST LEVEL 2.
 - D) ALL SIGNS SHALL BE CONSIDERED INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION (SPECIAL) PAY ITEM.

LEGEND

- WORK AREA
- DRUMS OR TYPE II BARRICADES
- DIRECTION OF TRAFFIC FLOW
- SIGN
- TYPE III BARRICADE W/ 2 FLASHING BEACONS (NO. OF BARRICADES AS DIRECTED BY THE ENGINEER)
- IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2 (NON-ANCHORING)



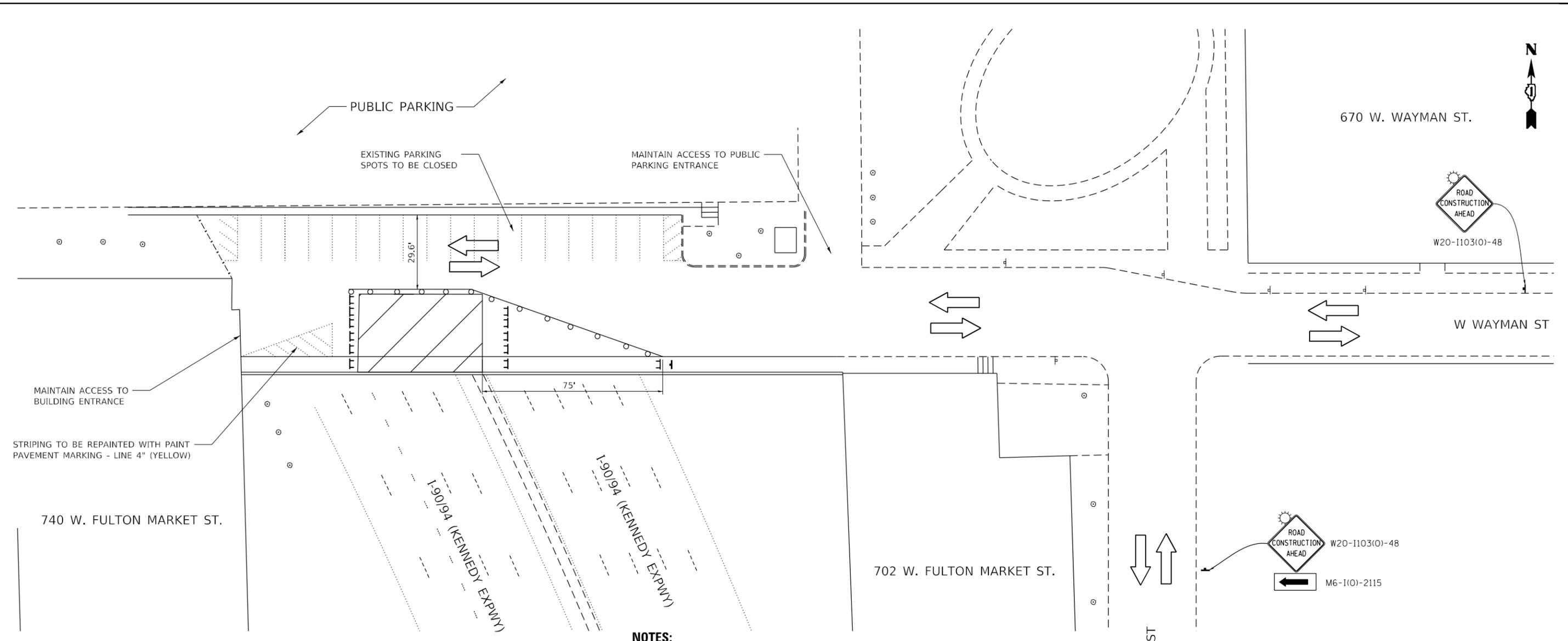
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - STAGE 1
I-90/94 (KENNEDY EXPWY) UNDER WAYMAN ST**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0094	2021-158-BDR&BJR	COOK	13	4
CONTRACT NO. 62P80			ILLINOIS FED. AID PROJECT	



NOTES:

- 1.) SEE SPECIAL PROVISIONS TITLED TRAFFIC CONTROL AND PROTECTION (ARTERIALS).
- 2.) THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PRIVATE DRIVES AND COMMERCIAL PROPERTY DURING ENTIRE DURATION OF THE PROJECT. SIGNING SHALL BE PROVIDED FOR ALL DRIVEWAY ENTRANCES PER DISTRICT DETAIL TC-26.
- 3.) THE CONTRACTOR SHALL COORDINATE WITH THE BUILDING MANAGER OF 740 W. FULTON MARKET STREET AND PROVIDE A MINIMUM 48 HOUR NOTICE PRIOR TO SETUP OF STAGE TWO.
- 4.) THE CONTRACTOR SHALL COORDINATE WITH THE BUILDING MANAGER OF 740 W. FULTON MARKET STREET BEFORE APPLYING ANY PROTECTIVE COAT TO THE STRUCTURE THAT IS ADJACENT TO THE BUILDINGS ENTRANCE.
- 5.) THE CONTRACTOR SHALL REMOVE AND SAFELY STORE (FREE FROM THEFT OR DAMAGE) OR COVER ALL CONFLICTING EXISTING SIGNS FOR THE DURATION OF THE CONSTRUCTION. ALL SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE END OF CONSTRUCTION. COST INCLUDED WITH TRAFFIC CONTROL & PROTECTION (SPECIAL).
- 6.) THE FOLLOWING APPLY TO CONSTRUCTION SIGNS:
 - A) THE CONTRACTOR SHALL FURNISH ALL SIGNS.
 - B) THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND REPLACE ANY SIGNS THAT ARE SUPPLIED BY OTHERS AND DAMAGED BY THE CONTRACTOR'S WORK FORCE OR SUBCONTRACTORS DURING RELOCATION OR CONSTRUCTION OPERATIONS.
 - C) ALL SIGNS AND ASSEMBLIES SHALL BE CERTIFIED BY THE CONTRACTOR AS MEETING THE APPLICABLE REQUIREMENTS OF NCHRP REPORT 350. TEST LEVEL 2.
 - D) ALL SIGNS SHALL BE CONSIDERED INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION (SPECIAL) PAY ITEM.

LEGEND

- WORK AREA
- DRUMS OR TYPE II BARRICADES
- DIRECTION OF TRAFFIC FLOW
- SIGN
- TYPE III BARRICADE W/ 2 FLASHING BEACONS (NO. OF BARRICADES AS DIRECTED BY THE ENGINEER)

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC - STAGE 2
I-90/94 (KENNEDY EXPWY) UNDER WAYMAN ST**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0094	2021-158-BDR&BJR	COOK	13	5
CONTRACT NO. 62P80			ILLINOIS FED. AID PROJECT	

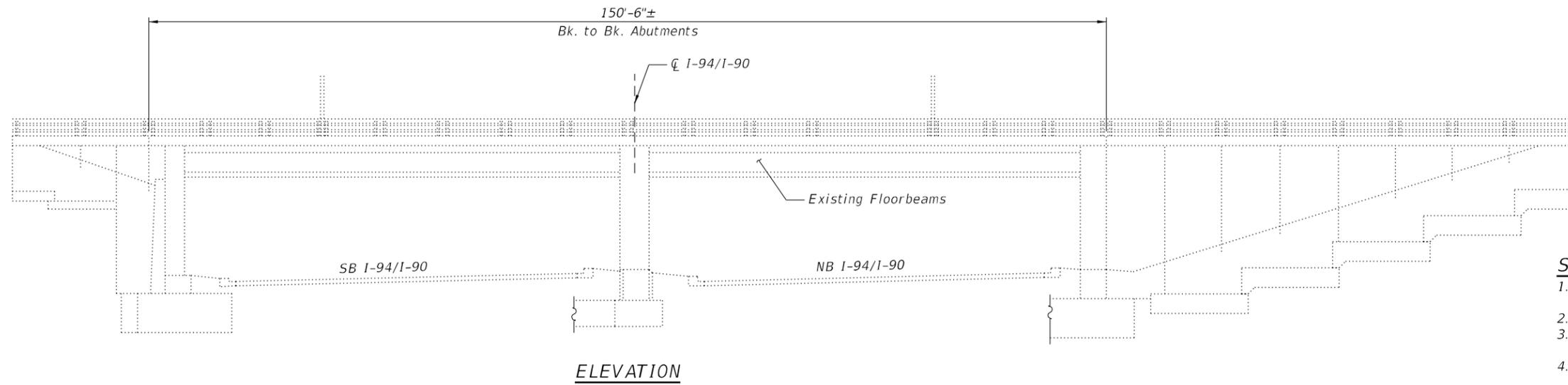
Existing Structure: Structure No. 016-2020 was built in 1959 under Section 0202.4-2. Existing Structure is a two span continuous steel superstructure with reinforced concrete deck and substructure.

Traffic Control: Stage Construction will be utilized to maintain traffic during construction.

Salvage: None

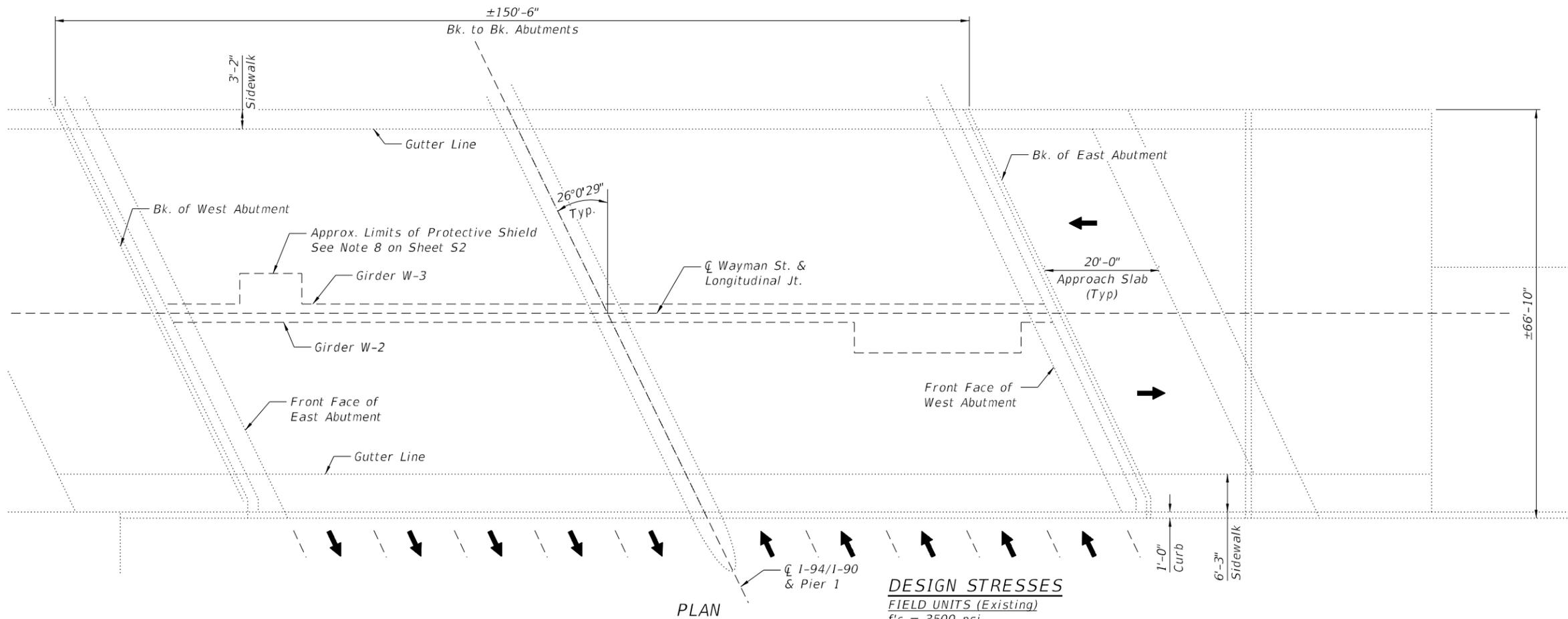
INDEX OF SHEETS

- S1. General Plan & Elevation
- S2. General Data
- S3. Construction Staging
- S4. Deck Slab Repair Plan
- S5. Framing Plan
- S6. Structure Photos



SCOPE OF WORK

1. Perform Partial Depth and Full Depth Patching on Bridge Deck.
2. Eliminate Longitudinal Joint.
3. Perform Structural Repair of Concrete on the Sidewalks.
4. Clean and Seal Transverse Joints at Abutments and Piers.
5. Apply Protective Coat to Repair Areas.

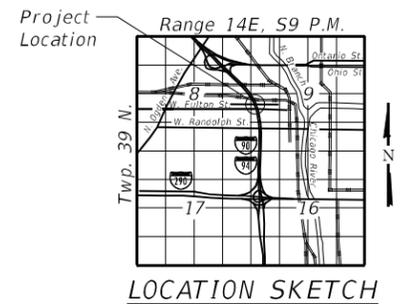


DESIGN SPECIFICATIONS (Exist. Const.)
2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

DESIGN STRESSES

FIELD UNITS (Existing)
f'c = 3500 psi
*f*y = 40,000 psi (Reinforcement)
*F*y = 33,000 psi (Structural Steel)
FIELD UNITS (Proposed)
f'c = 4,000 psi (Superstructure)
*f*y = 60,000 psi (Reinforcement)

LOADING HS-20



GENERAL PLAN AND ELEVATION
W. WAYMAN ST. OVER I-94
COOK COUNTY
SECTION: 2021-158-BDR&BJR
STRUCTURE NO. 016-2020

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 016-2020

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0094	2021-158-BDR&BJR	COOK	13	6
CONTRACT NO. 62P80				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES:

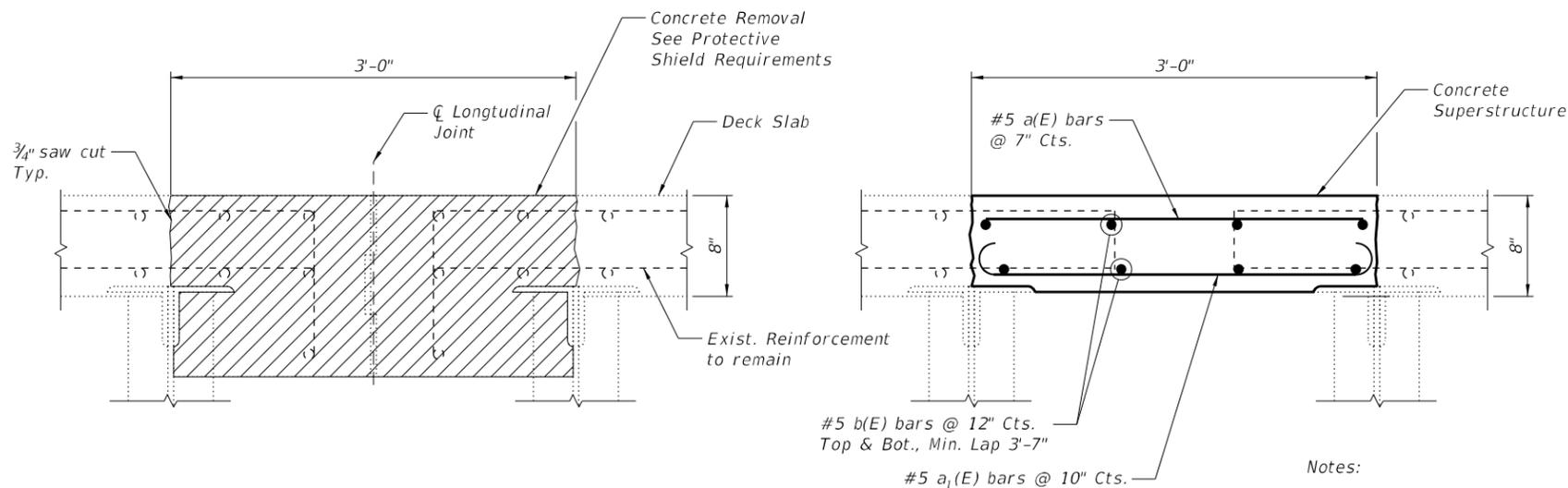
1. Reinforcement bars designated (E) shall be epoxy coated.
2. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior 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.
3. Staged construction shall be utilized to maintain traffic during construction.
4. Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.
5. Any reinforcements bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with Concrete Removal.
6. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.
7. The deck surface shall have its final finish tined according to Article 420.09(e)(10) of the Standard Specifications. Cost included with Concrete Superstructures.
8. Protective Shield shall be installed below longitudinal joint closure and all full depth patching. For the areas requiring full depth patching, Protective Shield shall extend a minimum of five feet beyond the repair areas. Repair areas shall be verified in the field prior to installation of Protective Shield. Protective Shield shall not obstruct underpass lighting, which shall remain operable throughout the Contract.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	20.9
Protective Shield	Sq. Yd.	85
Concrete Superstructure	Cu. Yd.	11.2
* Protective Coat	Sq. Yd.	109
Reinforcement Bars, Epoxy Coated	Pound	2850
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	162
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	4
Deck Slab Repair (Partial)	Sq. Yd.	37
Clean & Reseal Relief Joint	Foot	224

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	258	#5	2'-8"	—
a ₁ (E)	181	#5	3'-10"	⌒
b(E)	48	#5	28'-1"	—

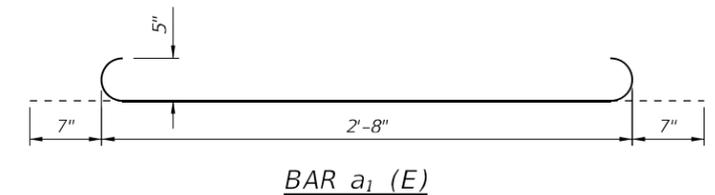
* Apply to new concrete only



EXISTING

PROPOSED

LONGITUDINAL JOINT CLOSURE DETAILS



Notes:

Hatched areas indicate concrete sections to be removed. Perimeters of Concrete Removal areas shall be saw cut 3/4" prior to the removal of the concrete. Existing transverse reinforcement shall be cleaned straightened into the new construction.

The Contractor shall exercise care during concrete removal to ensure that the slab, beams, and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams, diaphragms caused by this operation as directed by the Engineer at no additional cost to the Department.

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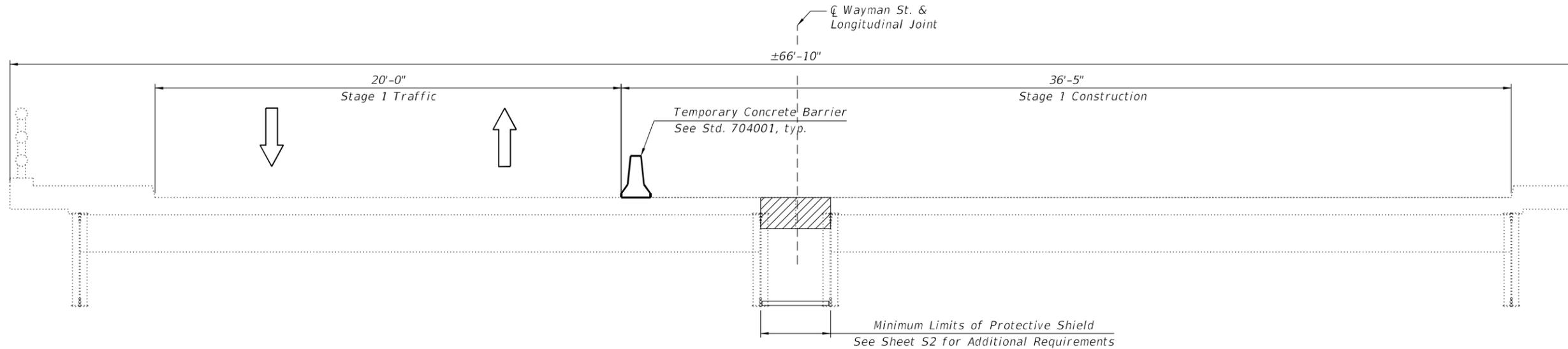
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

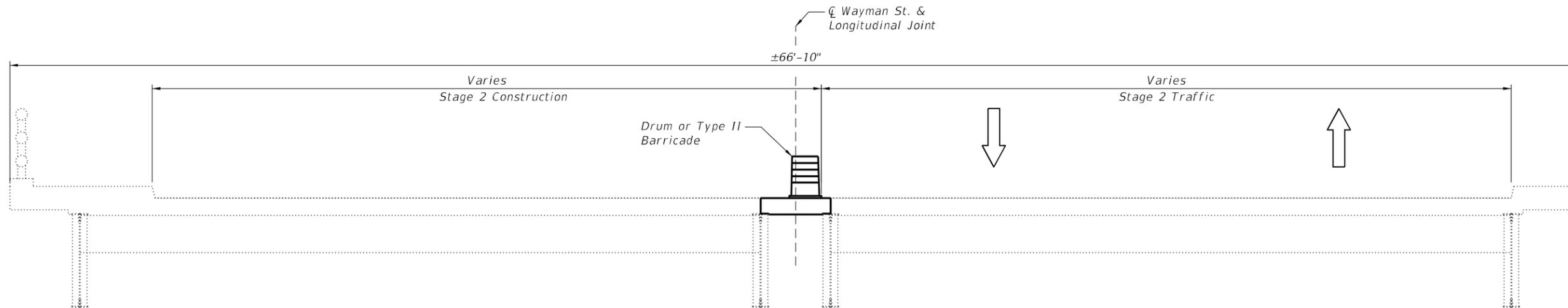
GENERAL DATA
STRUCTURE NO. 016-2020

SHEET S2 OF S6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0094	2021-158-BDR&BJR	COOK	13	7
CONTRACT NO. 62P80				
ILLINOIS FED. AID PROJECT				



STAGE 1 CONSTRUCTION
(Looking West)



STAGE 2 CONSTRUCTION
(Looking West)

Notes:

1. See Sheets 4 and 5 for Maintenance of Traffic details.

Legend:

 Removal Area

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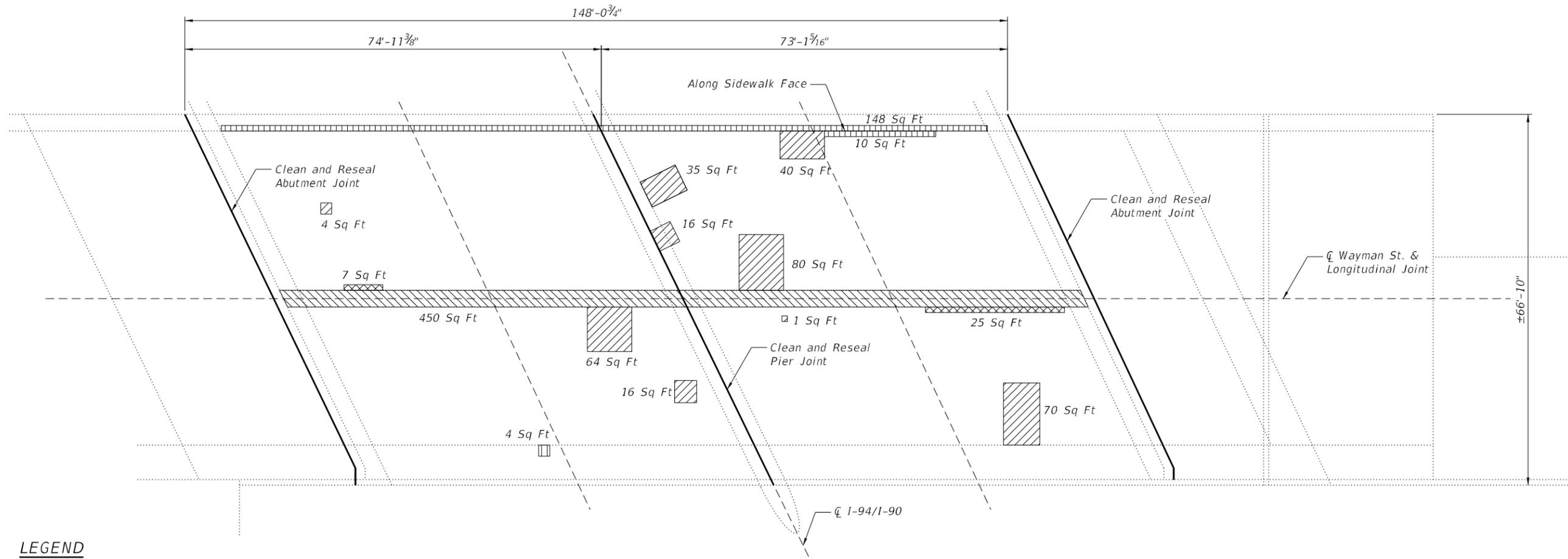
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION STAGING
STRUCTURE NO. 016-2020

SHEET S3 OF S6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0094	2021-158-BDR&BJR	COOK	13	8
CONTRACT NO. 62P80				
ILLINOIS FED. AID PROJECT				



DECK REPAIR PLAN

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Protective Shield	Sq. Yd.	85
Protective Coat	Sq. Yd.	109
Structural Repair of Concrete (Depth Equal to or Less Than 5 inches)	Sq. Ft.	162
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	4
Deck Slab Repair (Partial)	Sq. Yd.	37
Clean & Reseal Relief Joint	Foot	224

LEGEND

- Longitudinal Joint Closure
- Full Depth Deck Patching
- Partial Depth Deck Patching
- Structural Repair of Concrete
(Depth Equal to or Less Than 5 inches)

NOTES:

1. Deck Slab Repair areas estimated on a visual inspection. Actual repair areas and locations shall be determined by the Engineer and shown on the as-built plans.
2. See Sheet S2 for Longitudinal Joint Closure Details and Protective Shield Requirements.
3. Protective Coat shall be applied to new concrete only.

MODEL: 2D
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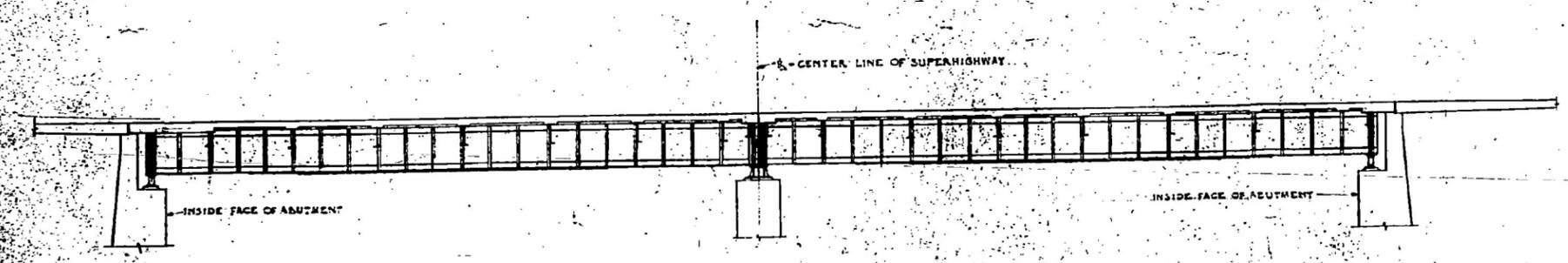
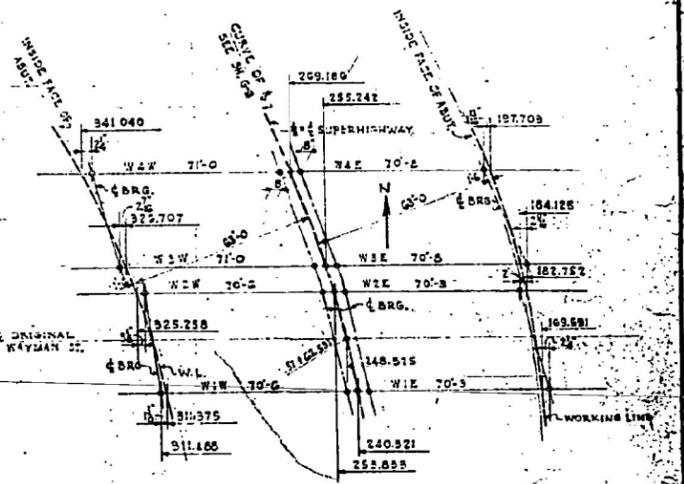
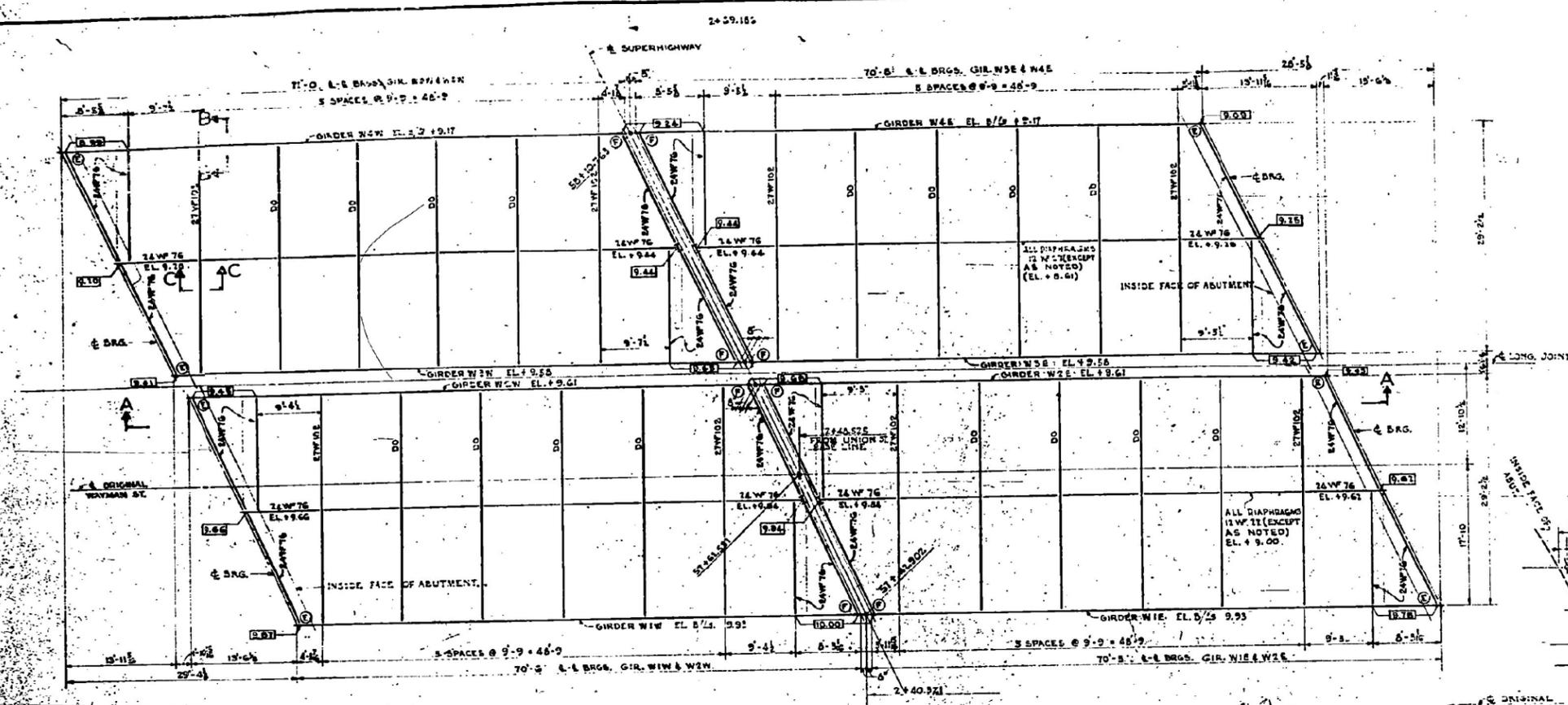
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK SLAB REPAIR PLAN
STRUCTURE NO. 016-2020

SHEET S4 OF S6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0094	2021-158-BDR&BJR	COOK	13	9
CONTRACT NO. 62P80				
ILLINOIS FED. AID PROJECT				

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 2	0202.4-1	COOK	134	57
FED. ROAD DIST. NO. 4		ILLINOIS	PROJECT NO. 02-018-51	



FOR INFORMATION ONLY

NOTE:
 FOR SEC. B-D & C-G SEE SH. 5-41
 ELEV. SHOWN ARE TO BACK OF PLANGE LS ON GIRDERS & TO TOP OF BEAM ON FLOORBEAMS & DIAPHRAGMS.
 O DENOTES EXPANSION BEARING
 F DENOTES FIXED BEARING
 FOR BEARING DETAILS SEE SH. 5-02 & 5-04
 FOR GIRDER DETAILS SEE SH. 5-41
 ELEV. SHOWN IN BOXES THUS [] ARE TO WORK POINTS DEFINED IN SLS. B-D SH. 5-41

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
SECTION 0202.4-1
RAILROAD GRADE SEPARATION
W. WAYMAN ST. TO W. KINZIE ST.
WAYMAN ST. BRIDGE
FRAMING PLAN

SCALE OF TRACING
 1" = 10'-0"
 0 2 4 6 8 10

SCALE AS NOTED
 SHEET NO. S-400 OF 134 SHEETS
 DATE: MARCH 1964



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	CHECKED - AMS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN
STRUCTURE NO. 016-2020
 SHEET S5 OF S6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0094	2021-158-BDR&BJR	COOK	13	10
CONTRACT NO. 62P80				
ILLINOIS FED. AID PROJECT				



Photo 1: West Span, South Fascia Girder, looking east



Photo 2: East Span, Overall Framing, looking south



Photo 3: West Span, Typical Diaphragms, looking east

MODEL: 2D
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COLLINS ENGINEERS INC.

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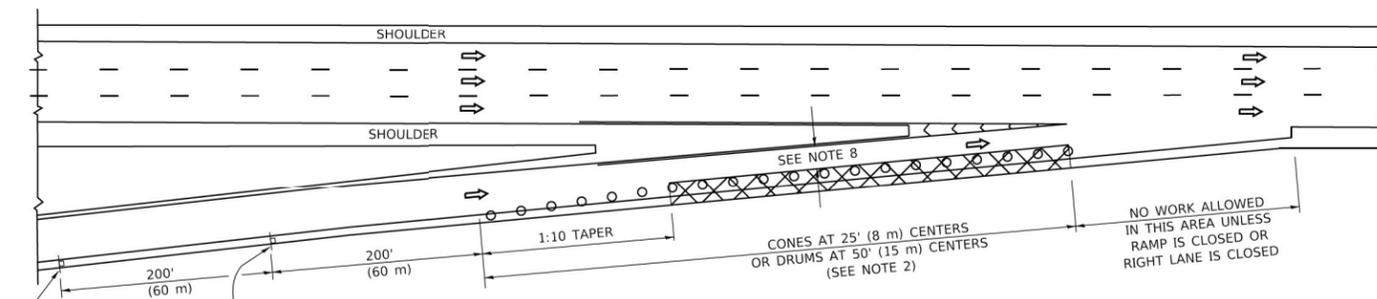
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STRUCTURE PHOTOS
 STRUCTURE NO. 016-2020**

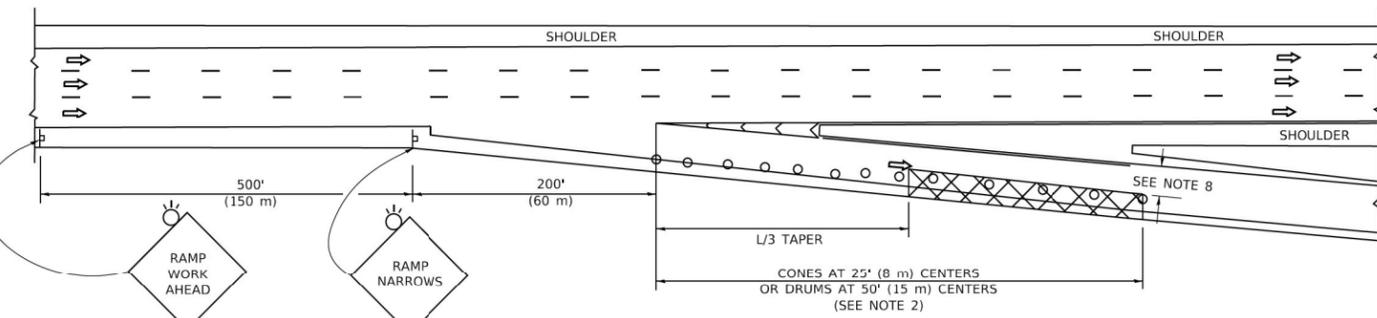
SHEET S6 OF S6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 62P80	
		ILLINOIS FED. AID PROJECT		

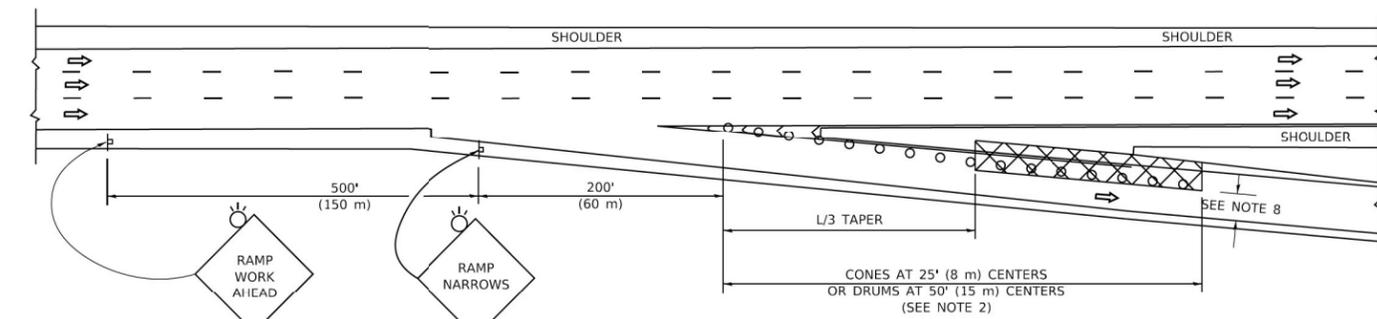
PARTIAL RAMP CLOSURE DETAILS



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 OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

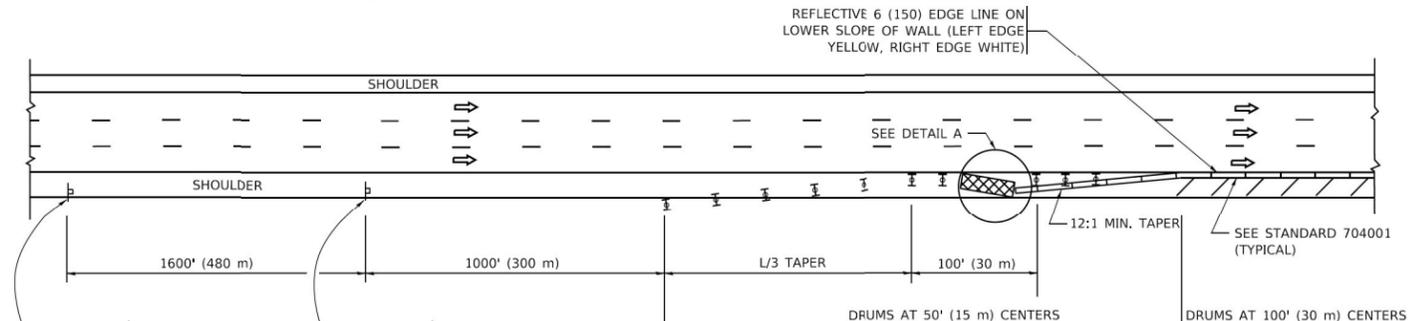
GENERAL NOTES:

- THE "L" DISTANCE EQUALS:

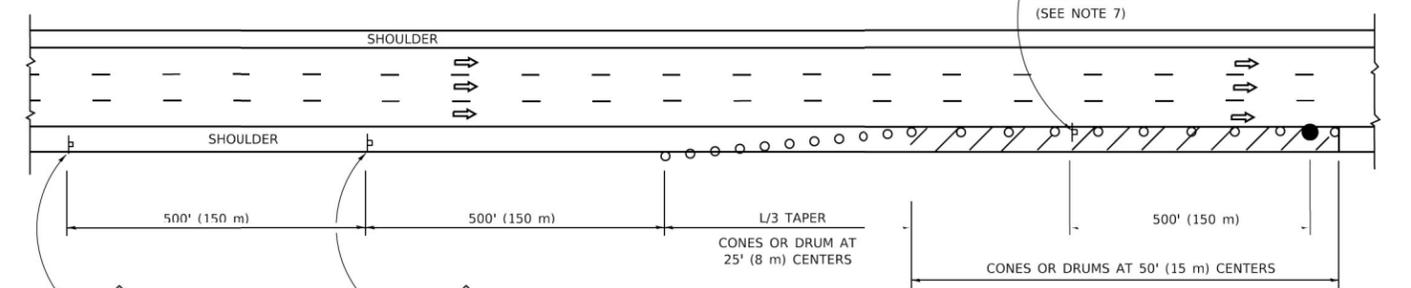
$L = \frac{S^2}{200}$	FORMULAS
45 mph (80 km/h) OR GREATER	METRIC ENGLISH
$L = 0.65(WHS)$	$L = (WHS)$

W = WIDTH OF OFFSET IN FEET (METERS)
 S = NORMAL POSTED SPEED MPH (KM/H)
- TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- 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/MASH COMPLIANT.

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

- THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
- AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
- THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - THE WORK AVTIVITY REQUIRES FREQUENT ENCR OACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
- 12' MIN. WIDTH TANGENT SECTION
 16' MIN. WIDTH CURVE SECTION.

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

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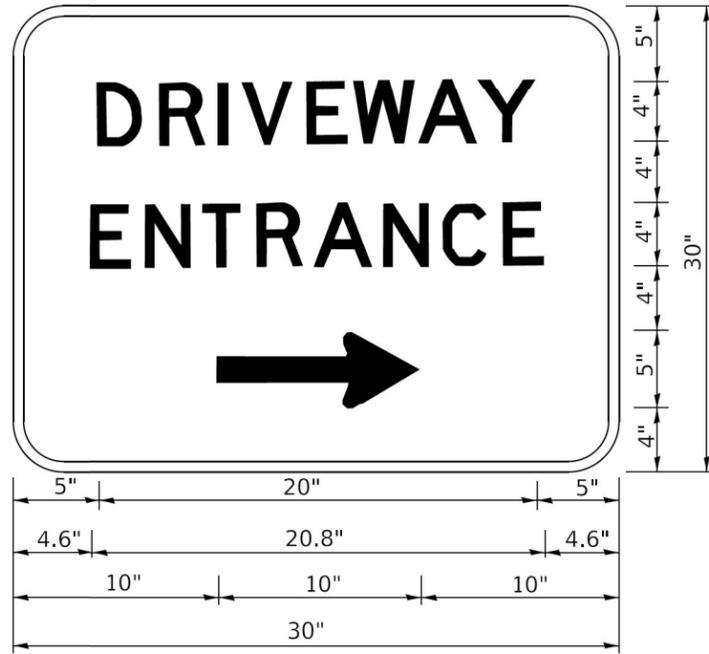
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL DETAILS FOR FREEWAY
 SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0094	2021-158-BDR&BJR	COOK	13	12
TC-17			CONTRACT NO. 62P80	
ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

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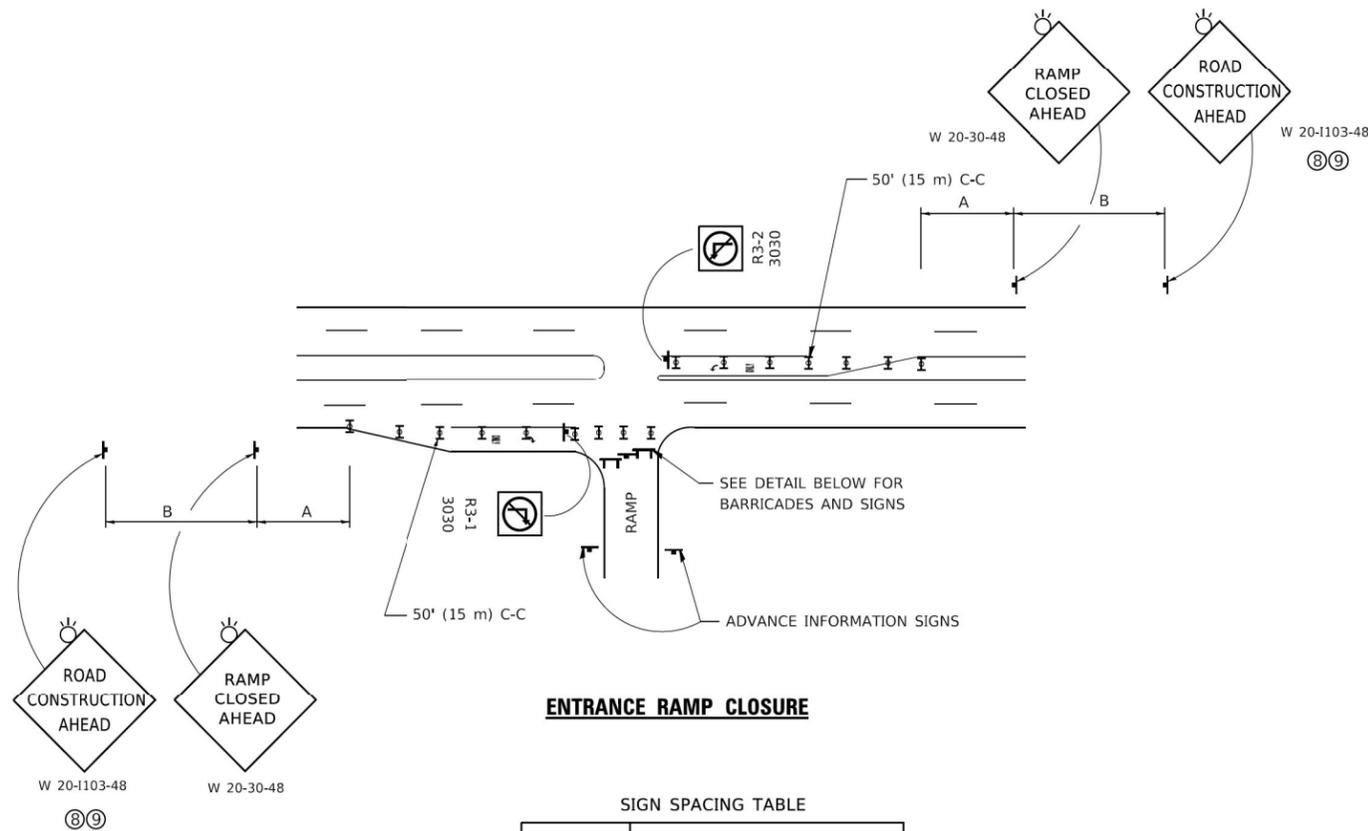
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	DRAWN -	REVISED -
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PLOT DATE = 8/6/2021	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

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

F.A. I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0094	2021-158-BDR&BJR	COOK	13	13
TC-26			CONTRACT NO. 62P80	
ILLINOIS FED. AID PROJECT				

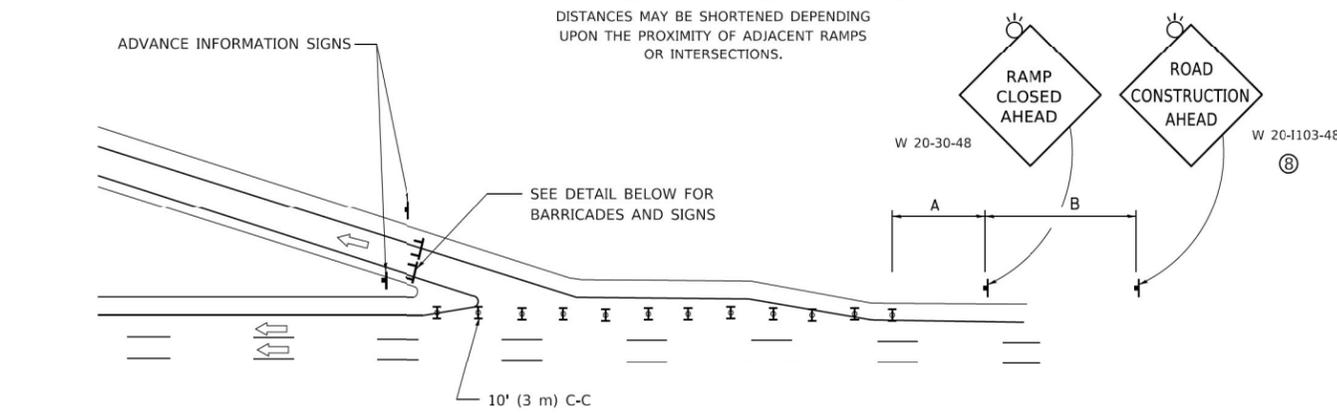


ENTRANCE RAMP CLOSURE

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 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

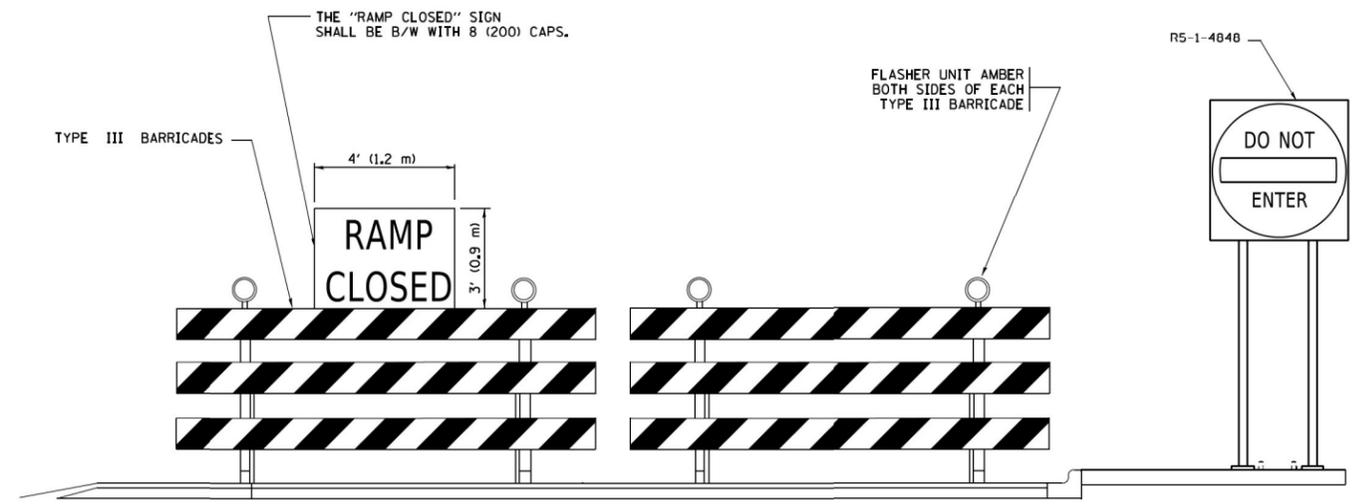
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

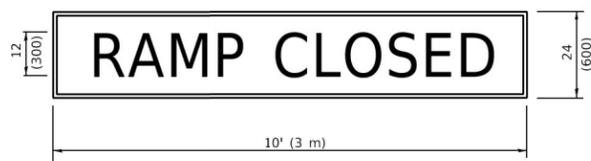
SYMBOLS

- ▬ TYPE II BARRICADE OR DRUM
- ▬ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

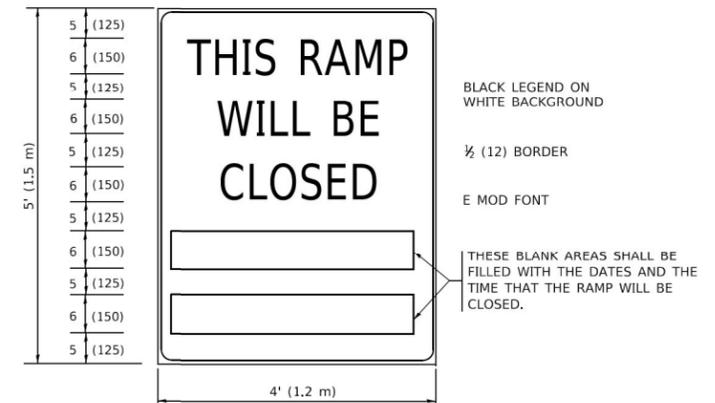
RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

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

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

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 VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING 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 FOUR (4) DAYS 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 SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

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PLOT DATE = 3/4/2019	DATE - 02-83	REVISED - M.D._06-13
		REVISED - M.D._01-18

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP
CLOSURE DETAILS**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0094	2021-158-BDR&BJR	COOK	13	13A
TC-08			CONTRACT NO. 62P80	
ILLINOIS FED. AID PROJECT				