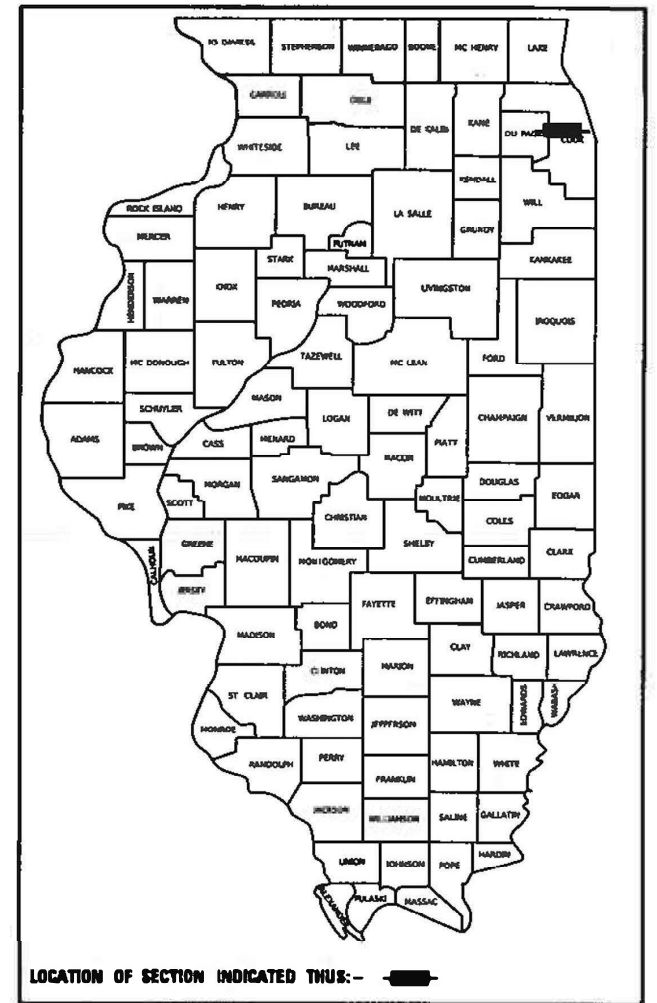


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-1	COOK	46	01
		ILLINOIS	CONTRACT NO. 62P54	

D-91-019-22



# PROPOSED HIGHWAY PLANS

FAI ROUTE 290 (I-290) (EISENHOWER EXPY) BETWEEN  
S CENTRAL AVE AND S LARAMIE AVE  
SECTION 2021-136-1  
PROJECT NHPP-764V(357)  
BARRIER WALL REPLACEMENT AND  
RETAINING WALL REPAIR  
COOK COUNTY

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT IS LOCATED  
IN THE CITY OF CHICAGO

**TRAFFIC DATA**

2020 ADT = 170,800  
POSTED SPEED LIMIT = 55 MPH  
FUNCTIONAL CLASS = INTERSTATE



EXPIRES NOV. 30, 2023

*Andy Walton*  
SIGNATURE

MAR. 18, 2022  
DATE



EXPIRES NOV. 30, 2023

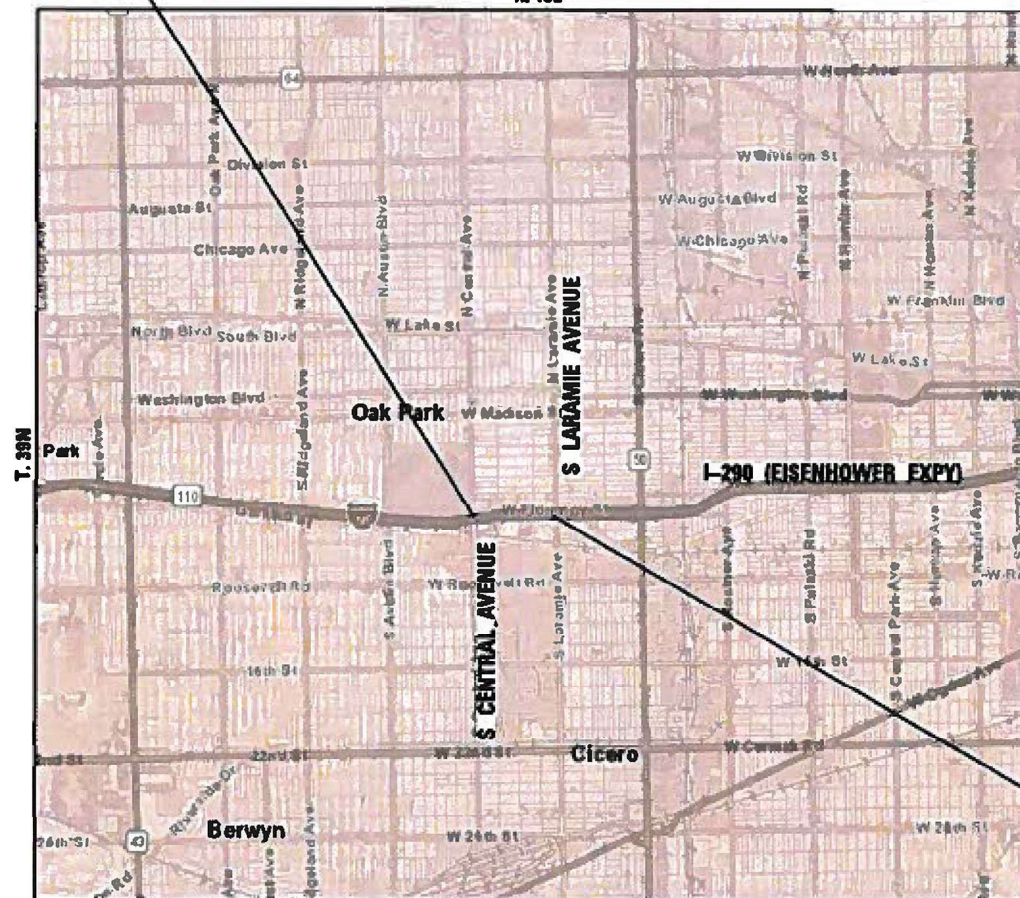
*Lukas Janulis*  
SIGNATURE

MAR. 18, 2022  
DATE

BEGIN IMPROVEMENTS

C-91-010-22

R. 13E

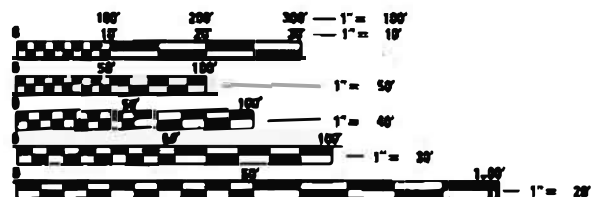


END IMPROVEMENTS



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 22, 2022  
*Jose Rin* REGIONAL ENGINEER  
May 13, 2022  
*Steph M. Janulis* ENGINEER OF DESIGN AND ENVIRONMENT  
May 13, 2022  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION



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

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

PROJECT ENGINEER: PRAVEEN KAINI, P.E. (847-705-4237)  
PROJECT MANAGER: J. ALAIN MIDY, P.E. (847-221-3056)

CONTRACT NO. 62P54

LOCATION MAP

GROSS LENGTH = 2,370.0 FT. = 0.449 MILE  
NET LENGTH = 2,370.0 FT. = 0.449 MILE

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

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- 5 TYPICAL SECTIONS
- 6-9 REMOVAL PLANS
- 10-13 ROADWAY PLANS
- 14-16 ROADWAY DETAILS
- 17-20 PAVEMENT MARKING PLANS
- 21 SUGGESTED STAGES OF CONSTRUCTION & TRAFFIC CONTROL - GENERAL NOTES
- 22 SUGGESTED STAGES OF CONSTRUCTION & TRAFFIC CONTROL - TYPICAL SECTIONS
- 23-26 SUGGESTED STAGES OF CONSTRUCTION & TRAFFIC CONTROL - PLANS
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- 29 RETAINING WALL REPAIR DETAILS
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- 46 FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS (TC-18)

**HIGHWAY STANDARDS**

000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
604001-05	FRAME AND LIDS TYPE 1
604016-04	FRAME AND GRATE TYPE 4
701400-11	APPROACH TO LANE CLOSURE, FREEWAY / EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-13	LANE CLOSURE, FREEWAY / EXPRESSWAY, DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS $\geq$ 45 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006-01	REFLECTOR MOUNTING DETAILS, GUARDRAIL AND BARRIER WALL

**IDOT DISTRICT 1 STANDARD DRAWINGS**

STANDARD NO.	DESCRIPTION
TC - 08	ENTRANCE AND EXIT RAMP CLOSURE DETAILS
TC - 09	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE
TC - 12	MULTI-LANE FREEWAY PAVEMENT MARKING
TC - 17	TRAFFIC CONTROL FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
TC - 18	FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

**GENERAL NOTES**

1. 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 FACILITIES (48 HOUR NOTIFICATION REQUIRED).
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF CHICAGO. THE PLANS DO NOT REPRESENT A COMPLETE DEPICTION OF ALL UTILITIES THAT MAY BE IMPACTED BY THE PROPOSED WORK. THE CONTRACTOR SHALL PERFORM AN INDEPENDENT INVESTIGATION TO DETERMINE THE OWNERSHIP OF IMPACTED UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNERS AND MAY BE REQUIRED TO PROVIDE TEMPORARY SUPPORT. ADJUST, RELOCATE OR REMOVE UTILITIES THAT ARE IMPACTED BY THE PROPOSED IMPROVEMENT. THIS SHALL BE INCLUDED IN THE LUMP SIM BID PRICE.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
4. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
6. THE CONTRACTOR SHALL CONTACT THE IDOT DISTRICT ONE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR CARLOS MUNOZ AT CARLOS.MUNOZ@ILLINOIS.GOV (847)-705-4155 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
7. THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE, BRIDGE SECTION.
8. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
9. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH CHICAGO TRANSIT AUTHORITY (CTA). CTA TRAFFIC PLANNING MUST BE NOTIFIED AT LEAST 2 WEEKS IN ADVANCE OF ANY IMPACTS TO BUS STOPS OR BUS OPERATIONS. TRAFFIC.PLANNING@TRANSITCHICAGO.COM OR 312-681-4176.
10. THE CONTRACTOR NEEDS TO SUBMIT COMPLETE CONSTRUCTION PROCESS PLANS (CPP'S) TO CTA FOR REVIEW AND COMMENTS PRIOR TO THE COMMENCEMENT OF ANY WORK.
11. PORTIONS OF EXISTING CONCRETE BARRIER HAVE BEEN PREVIOUSLY REPAIRED WITH SEGMENTS OF GUARDRAIL, STEEL CHANNELS, AND OTHER MISCELLANEOUS MATERIAL. THE REMOVAL OF THOSE ITEMS SHALL BE INCLUDED IN CONCRETE REMOVAL, CONCRETE BARRIER REMOVAL, AND/OR TEMPORARY CONCRETE BARRIER REMOVAL AND SHALL NOT BE PAID FOR SEPARATELY.
12. THESE PLANS WERE DEVELOPED WITHOUT THE AID OF EXISTING SURVEY INFORMATION, THE PROJECT ALIGNMENT IWAS CREATED FROM AERIAL IMAGERY AND SHOULD BE CONSIDERED APPROXIMATE. THE PROPOSED DETAILS AND PLAN DIMENSION WERE BASED ON AERIAL IMAGERY AND FIELD MEASUREMENTS. THE STATIONS AND OFFSET SHOWN ON THE PLANS SHOULD BE CONSIDERED APPROXIMATE AND TO BE VERIFIED IN THE FIELD PRIOR TO STARTING WORK.
13. THE CONTRACTOR SHALL TAKE EXTREME CARE WHEN PERFORMING DEMOLITION AND REMOVAL AROUND THE EXITING FACILITIES TO REMAIN IN PLACE. IF EXISTING ELEMENTS ARE DAMAGED, THE CONTRACTOR SHALL REPAIR/RESTORE TO MATCH THE EXISTING CONDITIONS OR BETTER.
14. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCES, 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.
15. AGGREGATE SUBGRADE IMPROVEMENT (CU YD) AND GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (SQ YD) HAVE BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEMS WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
16. THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12"LOWER LIFT SHALL BE CS 1 OR RR 1.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, HIGHWAY STANDARDS,  
AND GENERAL NOTES**

SCALE: N.T.S SHEET OF SHEETS STA. TO STA.

F.A.J RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	2
CONTRACT NO. 62P54				
ILLINOIS FED. AID PROJECT				

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SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE
					90% FED 10% STATE RET. WALL 0044
	20200100	EARTH EXCAVATION	CU YD	501.2	501.2
	28000510	INLET FILTERS	EACH	13	13
	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	1,505	1,505
	44001980	CONCRETE BARRIER REMOVAL	FOOT	544	544
	48301000	PROTECTIVE COAT	SQ YD	1,219	1,219
	50102400	CONCRETE REMOVAL	CU YD	476.3	476.3
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	482.3	482.3
	50300300	PROTECTIVE COAT	SQ YD	1,219	1,219
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	109,010	109,010
	60108104	PIPE UNDERDRAINS, TYPE 1,4"	FOOT	1,071	1,071
	60250700	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 4 FRAME AND GRATE	EACH	7	7
	60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	5	5
	63700180	CONCRETE BARRIER, SINGLE FACE, 44 INCH HEIGHT	FOOT	1,267	1,267
	63700805	CONCRETE BARRIER TRANSITION	FOOT	40	40
	63700900	CONCRETE BARRIER BASE	FOOT	1,307	1,307
	67100100	MOBILIZATION	L SUM	1	1
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	30	30
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	4,460	4,460
	70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	7,236	7,236

SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE
					90% FED 10% STATE RET. WALL 0044
	70307125	TEMPORARY PAVEMENT MARKING - LINE 5" - TYPE IV TAPE	FOOT	2,820	2,820
	70307140	TEMPORARY PAVEMENT MARKING - LINE 8" - TYPE IV TAPE	FOOT	1,309	1,309
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	2,563	2,563
	70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	1,218	1,218
	70400500	RELOCATE TEMPORARY CONCRETE BARRIER, STATE OWNED	FOOT	100	100
	70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3,424	3,424
*	78000300	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	FOOT	2,820	2,820
*	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1,391	1,391
*	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	3,760	3,760
*	78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	490	490
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	282	282
*	78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	394	394
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	282	282
	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	4,987	4,987
*	X0321809	PERMENANT GROUND ANCHOR	EACH	16	16
*	X1700045	REMOVE TEMPORARY CONCRETE BARRIER NO SALVAGE	FOOT	763	763
*	X4401981	CONCRETE BARRIER BASE REMOVAL	SQ FT	3,037	3,037

\* SPECIALTY ITEM



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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EISENHOWER EXPRESSWAY (I-290)  
 SUMMARY OF QUANTITIES (1 OF 2)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	3
CONTRACT NO. 62P54			ILLINOIS FED. AID PROJECT	

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SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION CODE
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					RET. WALL 0044
*	X6700407	ENGINEER'S FIELD OFFICE, TYPE A, (D1)	CAL MO	8	8
*	X7010410	SPEED DISPLAY TRAILER	CAL MO	1	1
*	X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1
*	X7013820	TRAFFIC CONTROL SURVEILLANCE, EXPRESSWAYS	CAL DA	30	30
<input type="checkbox"/>	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	13	13
*	Z0032470	JOINT SEALER	FOOT	1,075	1,075
*	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1
*	Z0062002	SAW CUTTING, (FULL DEPTH)	FOOT	2,378	2,378
∅	Z0076600	TRAINEES	HOURS	500	500
∅	Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500
	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	50	50
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	150	150
*	60108104	PIPE UNDERDRAINS, TYPE 1, 4"	FOOT	1,071	1,071
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	405	405
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	3	3
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	5	5
	70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1

NON-PART 100% STATE  
 \* SPECIALTY ITEM  
 ∅ 0042

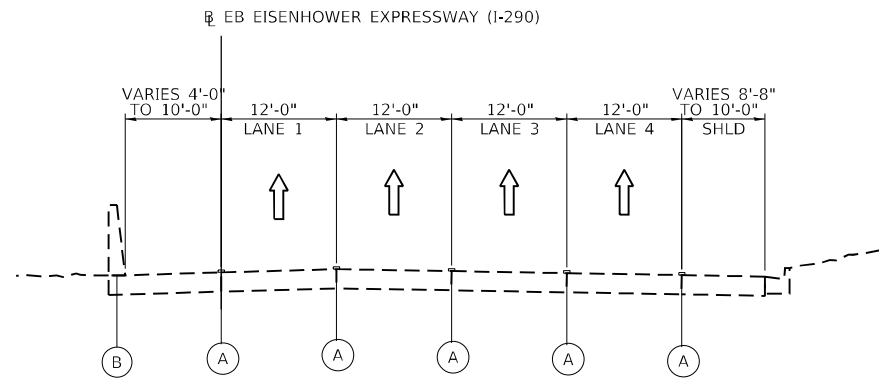


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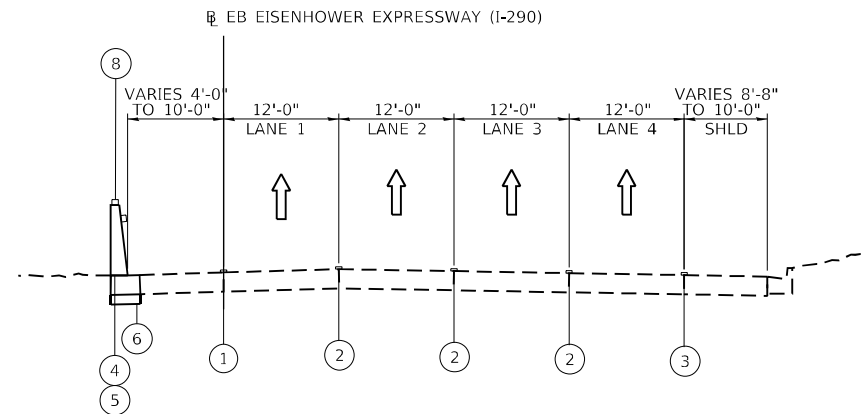
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>EISENHOWER EXPRESSWAY (I-290)</b> <b>SUMMARY OF QUANTITIES (2 OF 2)</b>		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.

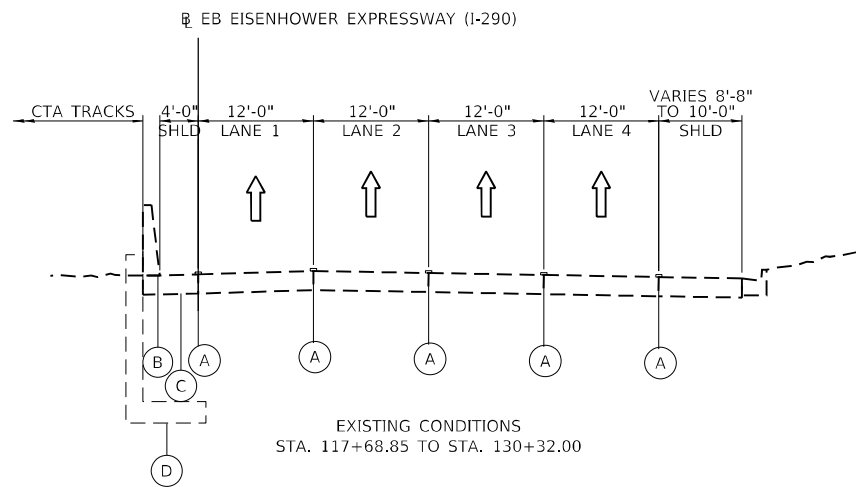
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CONTRACT NO. 62P54			ILLINOIS FED. AID PROJECT	



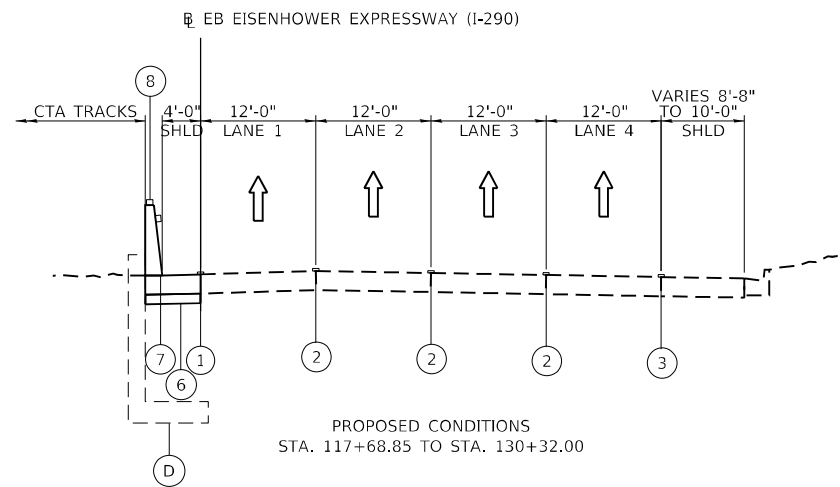
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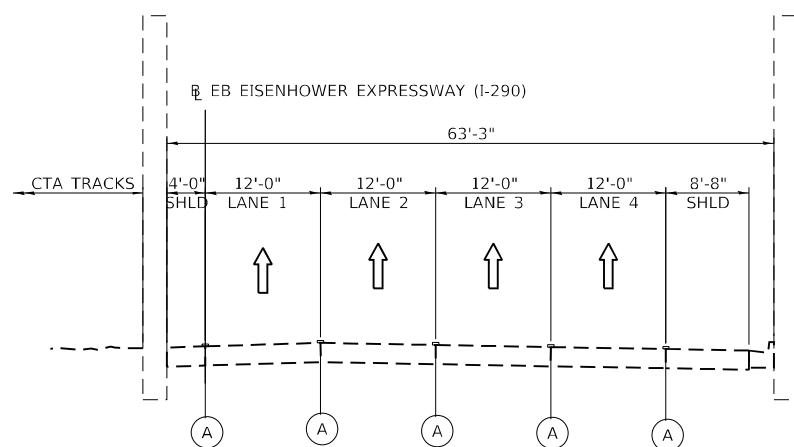
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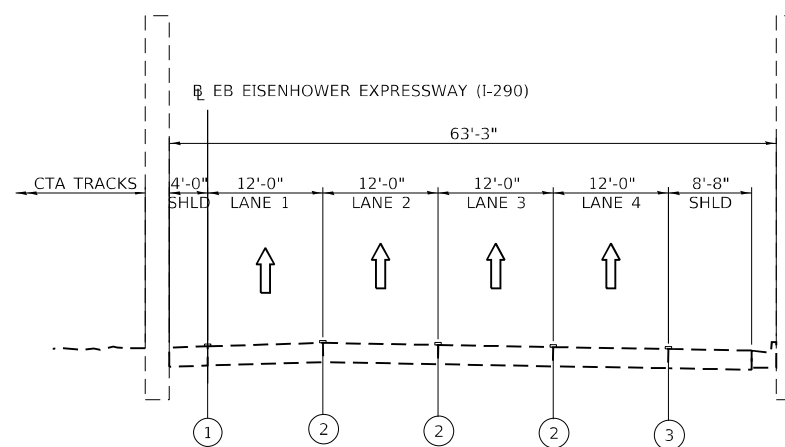
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STA. 117+68.85 TO STA. 130+32.00



PROPOSED CONDITIONS  
STA. 117+68.85 TO STA. 130+32.00



EXISTING CONDITIONS  
STA. 130+32.00 TO STA. 131+24.43



PROPOSED CONDITIONS  
STA. 130+32.00 TO STA. 131+24.43

**EXISTING LEGEND**

- (A) EXISTING PAVEMENT MARKING LINE
- (B) EXISTING CONCRETE BARRIER
- (C) EXISTING MOMENT SLAB
- (D) EXISTING RETAINING WALL

**PROPOSED LEGEND**

- (1) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (SOLID YELLOW)
- (2) THERMOPLASTIC PAVEMENT MARKING - LINE 5" (SKIP DASH)
- (3) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE)
- (4) CONCRETE BARRIER, SINGLE FACE, 44 INCH HEIGHT
- (5) CONCRETE BARRIER BASE
- (6) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (7) CONCRETE MOMENT SLAB AND 60" BARRIER
- (8) BARRIER WALL REFLECTORS, TYPE C

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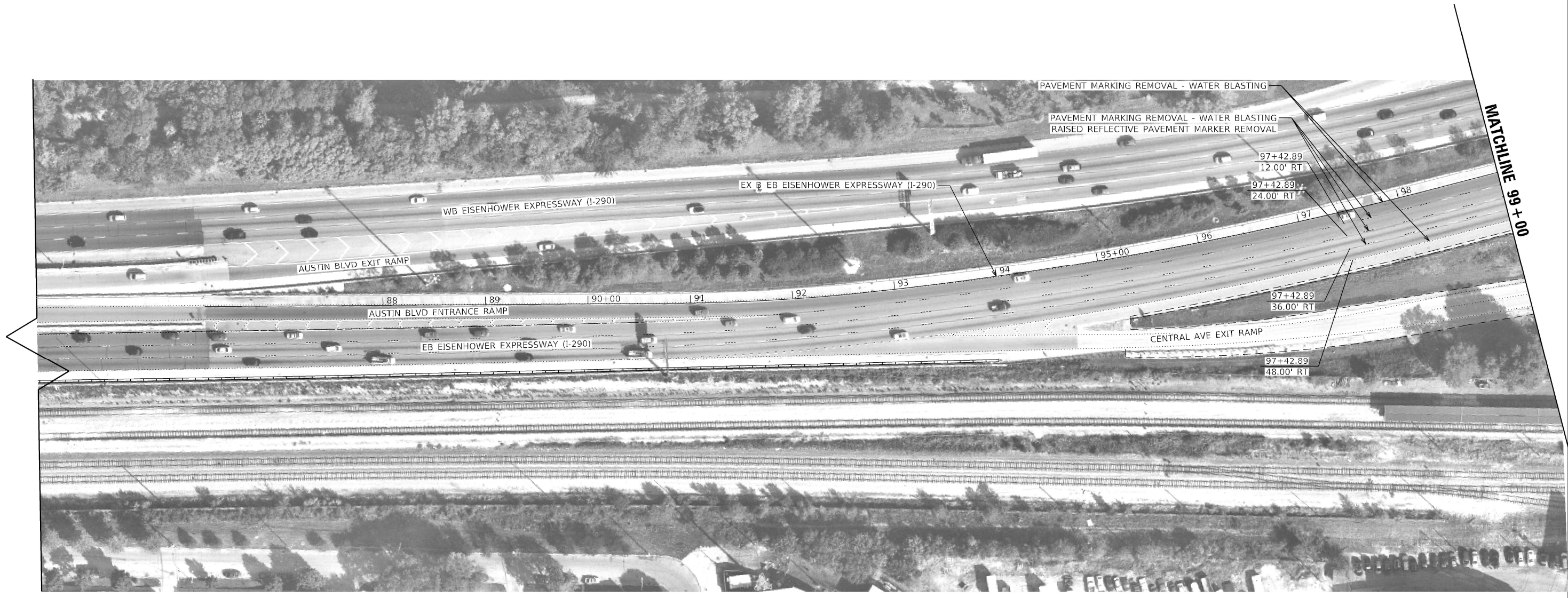
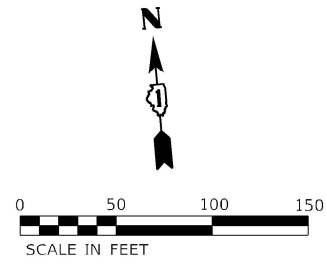
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)  
TYPICAL SECTIONS**

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

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	5
CONTRACT NO. 62P54				
ILLINOIS FED. AID PROJECT				



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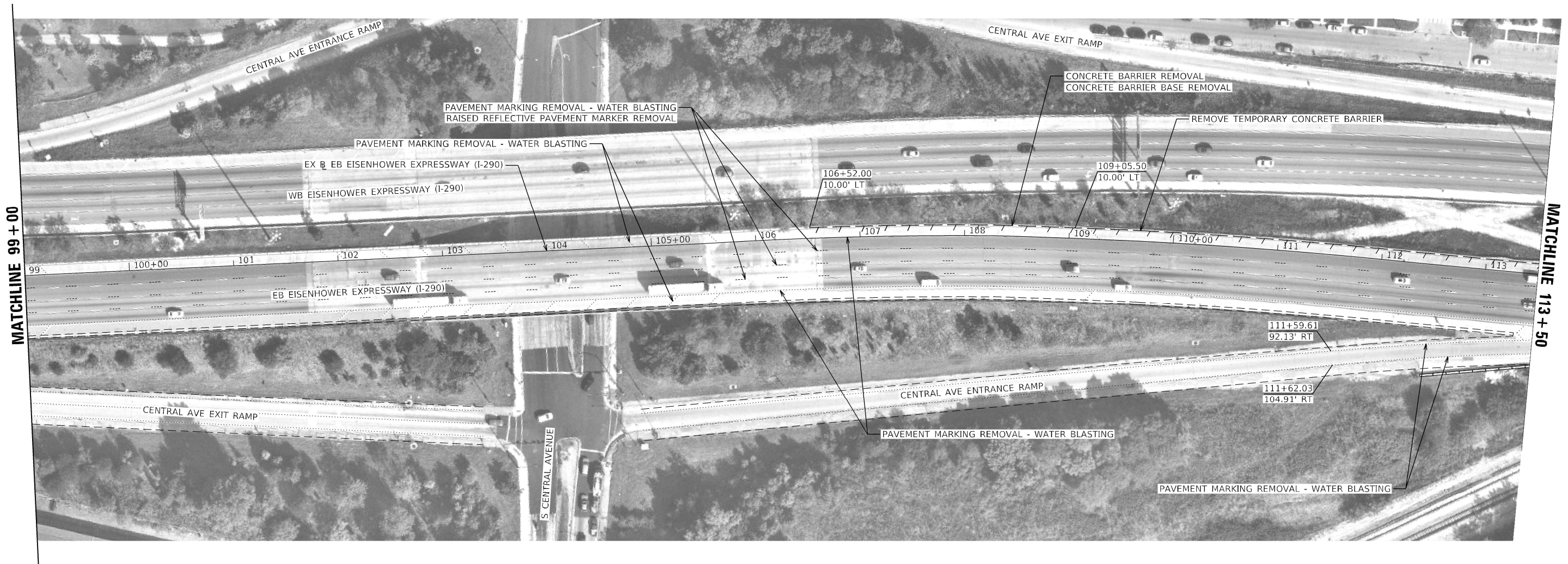
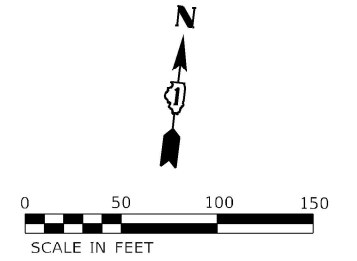
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	DATE - 01/21/2022	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)**  
**REMOVAL PLAN**

SCALE: 1"=50'    SHEET 1 OF 4 SHEETS    STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	6
CONTRACT NO. 62P54				
ILLINOIS FED. AID PROJECT				



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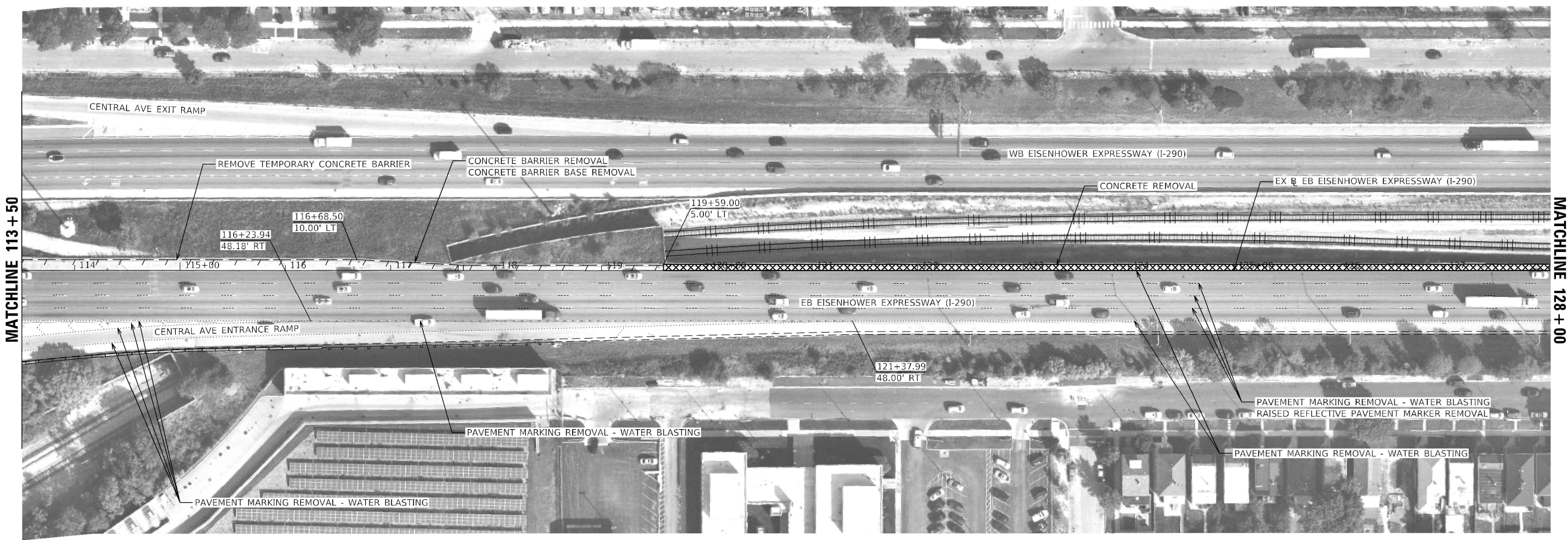
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PLOT DATE = 3/23/2022	DATE - 01/21/2022	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)**  
**REMOVAL PLAN**

SCALE: 1"=50'    SHEET 2 OF 4 SHEETS    STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	7
CONTRACT NO. 62P54				
ILLINOIS FED. AID PROJECT				



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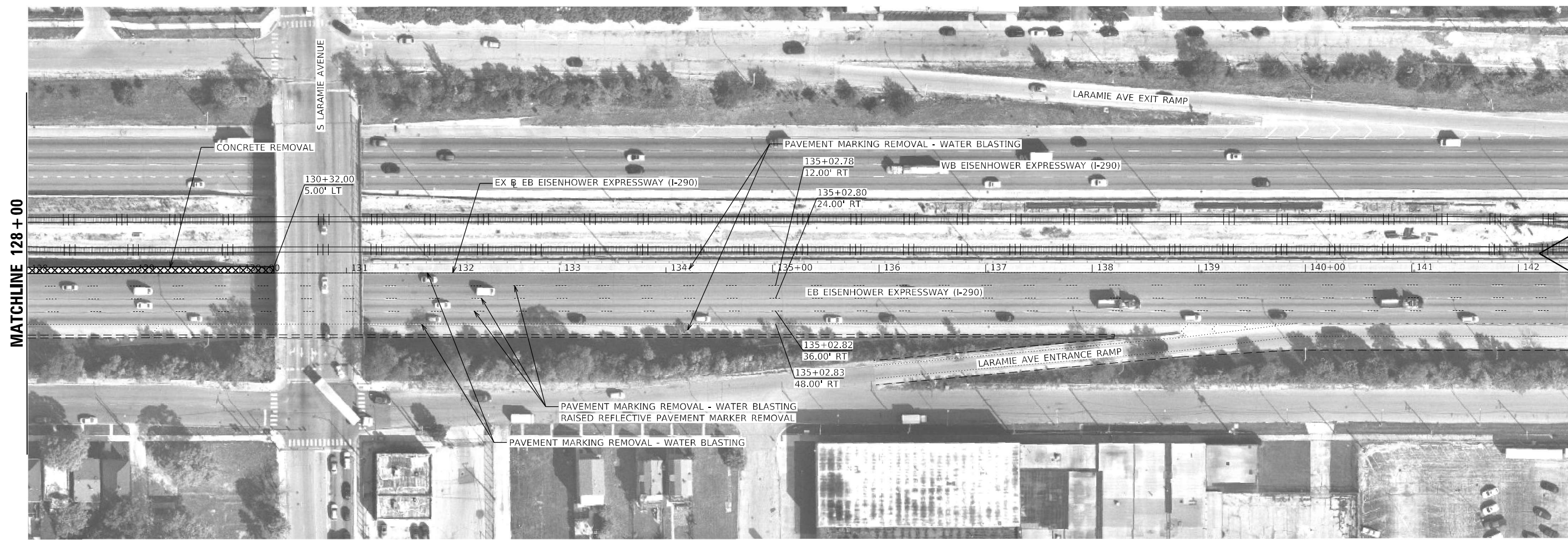
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)**  
**REMOVAL PLAN**

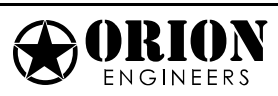
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	8
CONTRACT NO. 62P54				
ILLINOIS FED. AID PROJECT				





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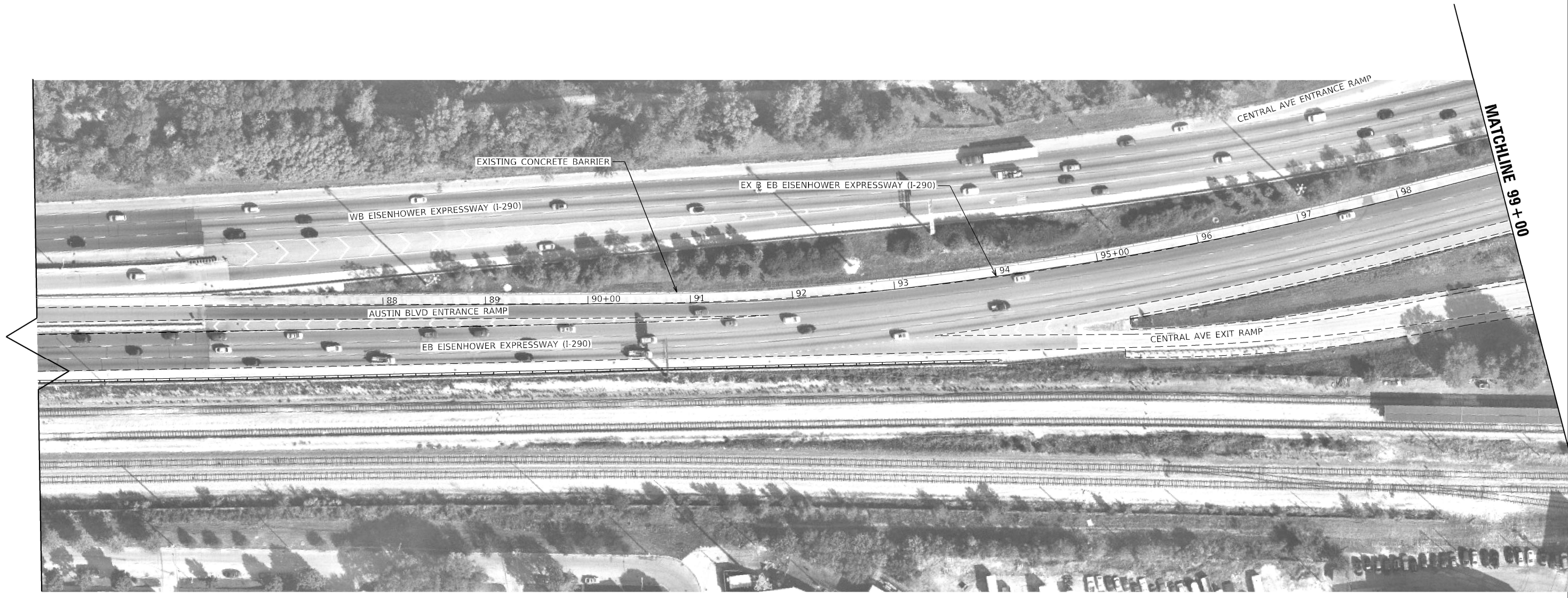
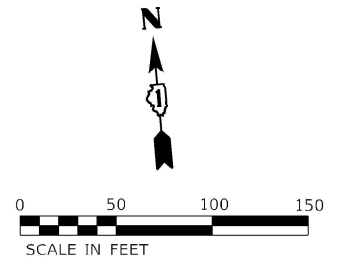


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	DATE - 01/21/2022	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>EISENHOWER EXPRESSWAY (I-290)          REMOVAL PLAN</b>			
SCALE: 1"=50'	SHEET 4	OF 4 SHEETS	STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	9
CONTRACT NO. 62P54				
ILLINOIS FED. AID PROJECT				



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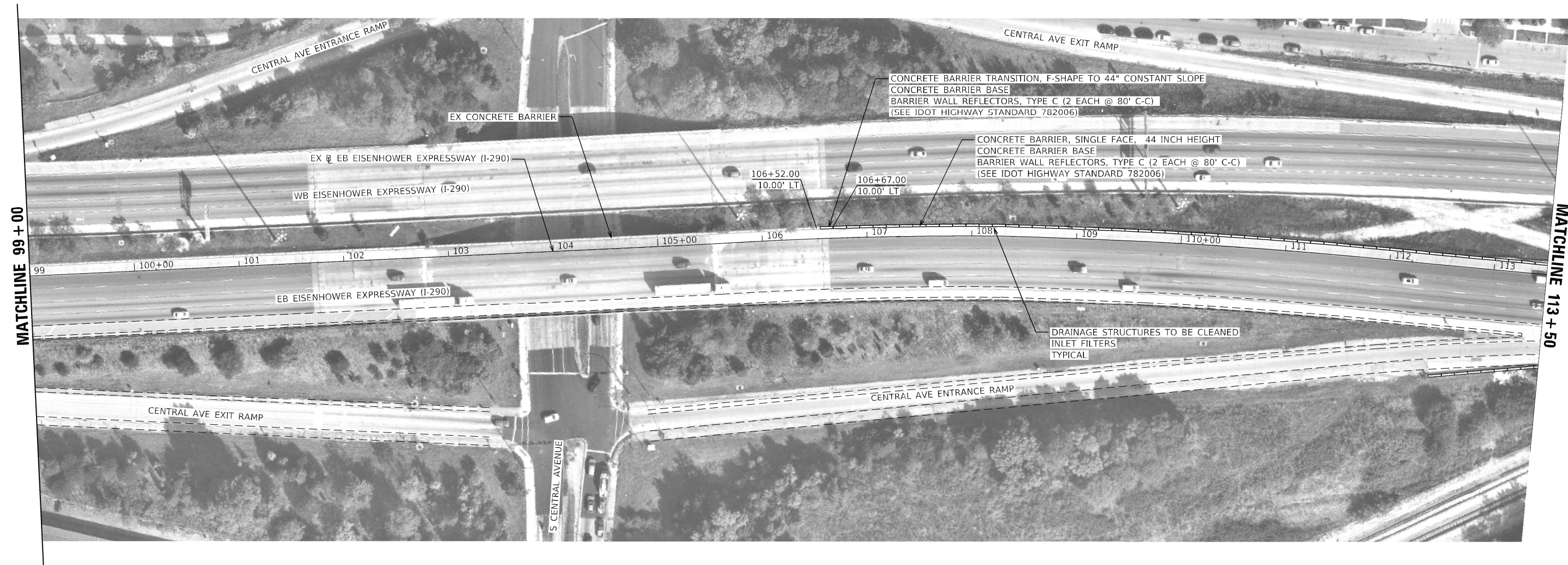
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PLOT DATE = 3/23/2022	CHECKED - ADW	REVISED -
	DATE - 01/21/2022	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)**  
**ROADWAY PLAN**

SCALE: 1"=50'    SHEET 1 OF 4 SHEETS    STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	10
CONTRACT NO. 62P54				
ILLINOIS FED. AID PROJECT				



MATCHLINE 99 + 00

MATCHLINE 113 + 50

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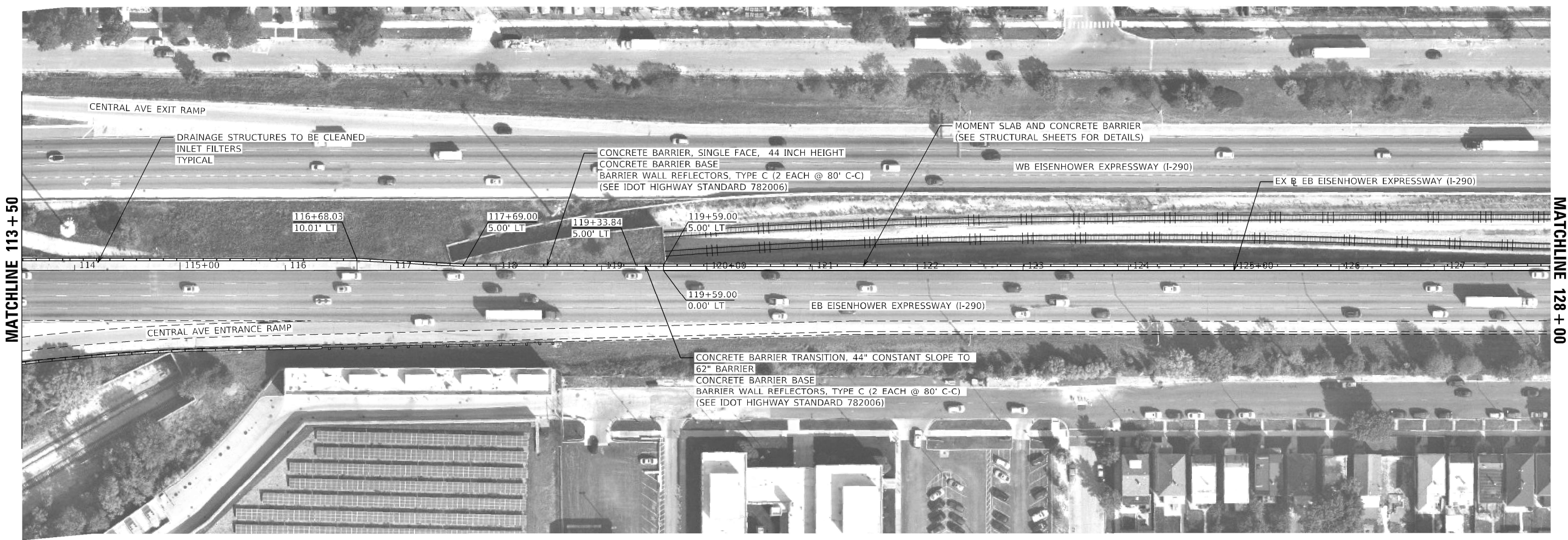
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PLOT DATE = 3/23/2022	DATE - 01/21/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)  
ROADWAY PLAN**

SCALE: 1"=50'    SHEET 2    OF 4    SHEETS    STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	11
CONTRACT NO. 62P54				
ILLINOIS FED. AID PROJECT				



MATCHLINE 113 + 50

MATCHLINE 128 + 00

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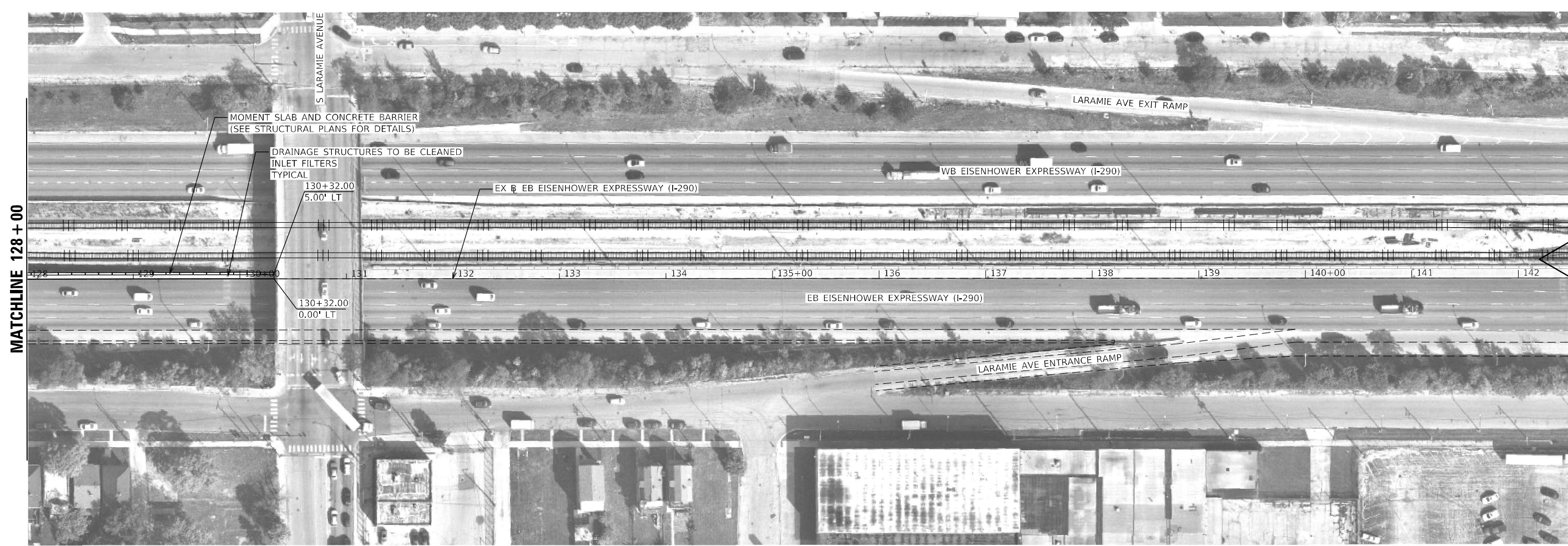
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	DATE - 01/21/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)  
ROADWAY PLAN**

SCALE: 1"=50'    SHEET 3 OF 4 SHEETS    STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	12
CONTRACT NO. 62P54				
ILLINOIS FED. AID PROJECT				



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PLOT DATE = 3/23/2022	CHECKED - ADW	REVISED -
	DATE - 01/21/2022	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)**  
**ROADWAY PLAN**

SCALE: 1"=50'    SHEET 4 OF 4 SHEETS    STA.    TO STA.

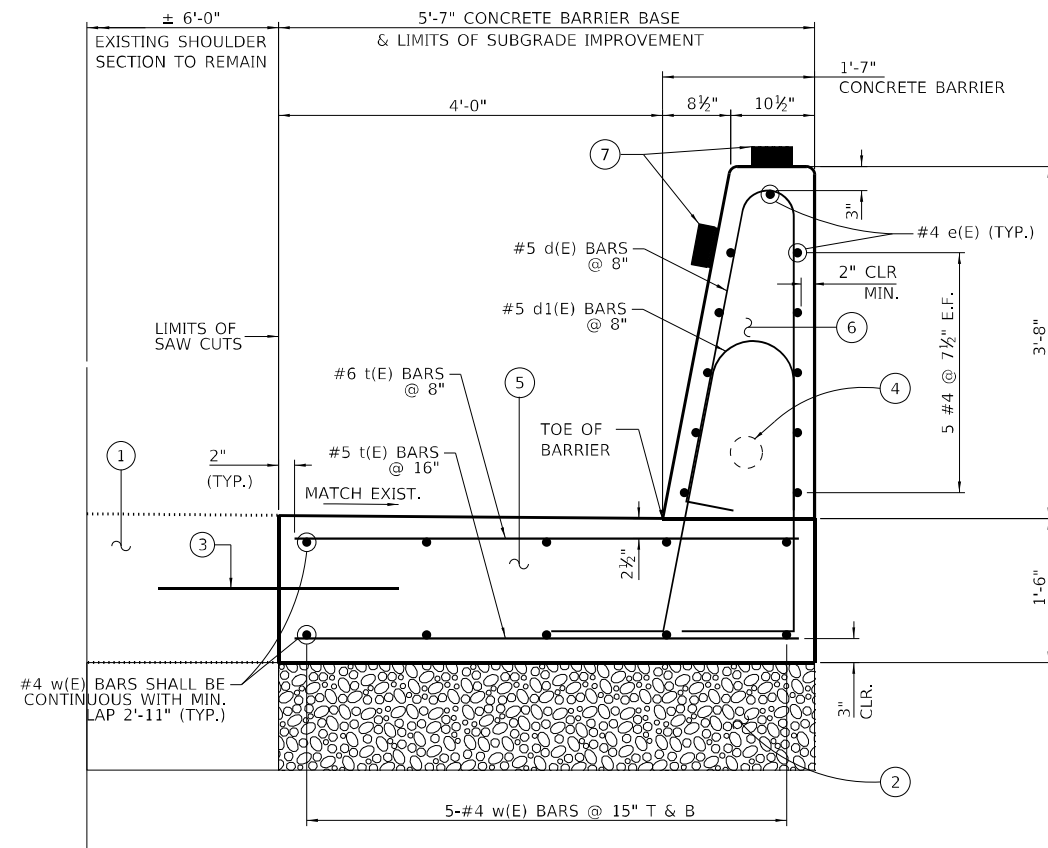
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	13
CONTRACT NO. 62P54				
ILLINOIS FED. AID PROJECT				

**LEGEND**

- ① EXISTING PCC SHOULDER
- ② AGGREGATE SUBGRADE IMPROVEMENT 12"
- ③ EPOXY COATED TIE BARS, NO. 8, 2'-6" LONG @ 2'-0" C-C (ADJACENT TO PCC PAVEMENT OR SHOULDER) INCLUDED IN THE COST OF CONCRETE BARRIER BASE.
- ④ ELECTRICAL CONDUIT. SEE NOTE 10.
- ⑤ CONCRETE BARRIER BASE
- ⑥ CONCRETE BARRIER, SINGLE FACE, 44 INCH HEIGHT
- ⑦ BARRIER WALL REFLECTORS, TYPE C (SEE HIGHWAY STANDARD 782006-01)

**NOTES**

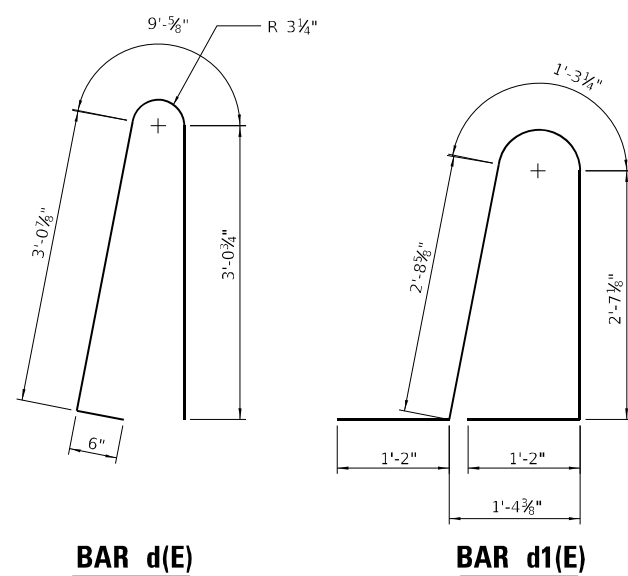
1. TOP SHOULDER EDGE OF BARRIER BASE GUTTER SHALL MATCH THE TOP OF SHOULDER ELEVATION.
2. 1" DEEP CONTRACTION JOINTS SHALL BE CONSTRUCTED IN BOTH THE REINFORCED CONCRETE BARRIER WALL AND BASE.
3. THE FORMING OF CONTRACTION JOINTS SHALL BE DONE WITH AN APPROVED FINISHING TOOL OR BY SAWING AT THE DISCRETION OF THE ENGINEER SUBJECT TO THE SATISFACTORY CONTROL OF CRACKING.
4. REINFORCING BARS DESIGNATED "(E)" SHALL BE EPOXY COATED.
5. REINFORCEMENT BENDING DETAILS SHALL BE IN ACCORDANCE WITH THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES ", ACI 315, LATEST EDITION.
6. EXPANSION JOINTS SHOWN ON THIS DRAWING SHALL BE PREFORMED JOINT MATERIAL (BITUMINOUS TYPE) FILLER AND SHALL MEET AASHTO DESIGNATION M-33.
7. CONCRETE, REINFORCEMENT BARS, TIE BARS, DOWEL BARS, AND PREFORMED JOINT FILLER DETAILED HEREIN SHALL BE INCLUDED IN THE COST OF THE VARIOUS CONCRETE BARRIER PAY ITEMS UNLESS OTHERWISE NOTED. AGGREGATE SUBGRADE, BARRIER WALL REFLECTORS, AND PROTECTIVE COAT ARE PAID FOR SEPARATELY.
8. PREFORMED JOINT FILLER SHALL BE INCLUDED IN THE COST OF THE VARIOUS CONCRETE BARRIER WALL PAY ITEMS.
9. JOINTS SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH ARTICLE 637.08 OF THE STANDARD SPECIFICATIONS.
10. THE CONTRACTOR SHALL EXERCISE EXTREME CARE WITH THE EXISTING CONDUITS IN SECTIONS OF THE PARAPET TO BE REMOVED AND SHALL PROTECT AND SUPPORT THE CONDUIT. THE CONTRACTOR WILL BE REQUIRED TO REPAIR ONLY DAMAGE DONE TO THE CONDUIT TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE DEPARTMENT. NO SPLICING WILL BE ALLOWED TO ANY CABLE DAMAGE RESULTING FROM THIS WORK. INSTEAD THE CONTRACTOR WILL BE REQUIRED TO REPAIR THE ENTIRE SPAN OF ANY DAMAGED CABLE WITH NO ADDITIONAL COST TO THE DEPARTMENT.
11. EXPANSION JOINTS SHALL BE CONSTRUCTED IN BARRIER WALL AT MAXIMUM JOINT SPACING OF 90 FEET.
12. VERTICAL TIE BARS ARE REQUIRED WHEN CONCRETE BARRIER AND CONCRETE BARRIER BASE ARE NOT POURED MONOLITHICALLY.
13. FOR SUPERELEVATION SECTIONS, 1'-7" BARRIER BASE THICKNESS SHALL BE MAINTAINED FOR CONCRETE BARRIER BASE.
14. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.



**CONCRETE BARRIER, SINGLE FACE, 44 INCH HEIGHT**

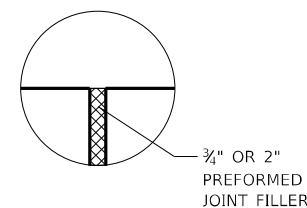
**CONCRETE BARRIER BASE**

FROM STA 106+82.00 TO STA 116+68.03



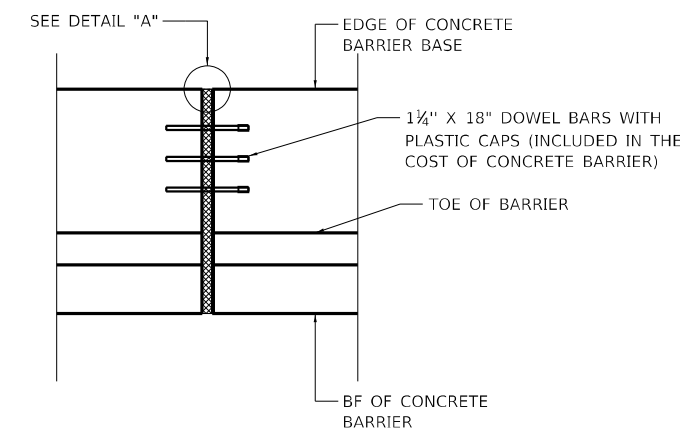
**BAR d(E)**

**BAR d1(E)**



**DETAIL "A"**

SCALE: NONE



**EXPANSION JOINT - 44" BARRIER**

SCALE: NONE

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 PLOT DATE = 3/23/2022



USER NAME = rbassim	DESIGNED - LEB	REVISED -
	DRAWN - LEB	REVISED -
	CHECKED - ADW	REVISED -
	DATE - 01/21/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)  
ROADWAY DETAILS**

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

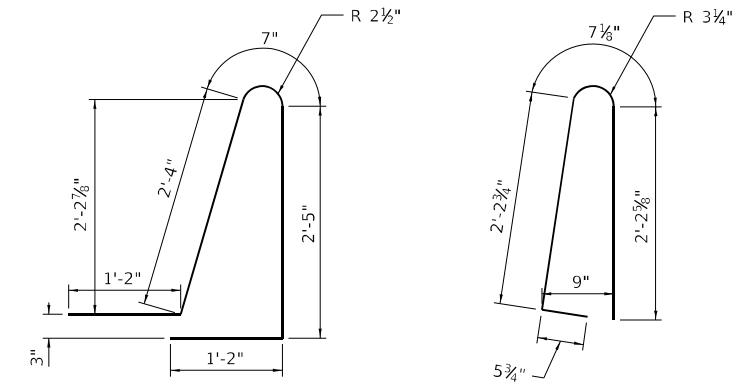
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	14
CONTRACT NO. 62P54				
ILLINOIS FED. AID PROJECT				

**LEGEND**

- ① EXISTING PPC SHOULDER
- ② AGGREGATE SUBGRADE IMPROVEMENT 12"
- ③ CONCRETE BARRIER BASE
- ④ CONCRETE BARRIER TRANSITION
- ⑤ CONCRETE BARRIER, SINGLE FACE, 44 INCH HEIGHT

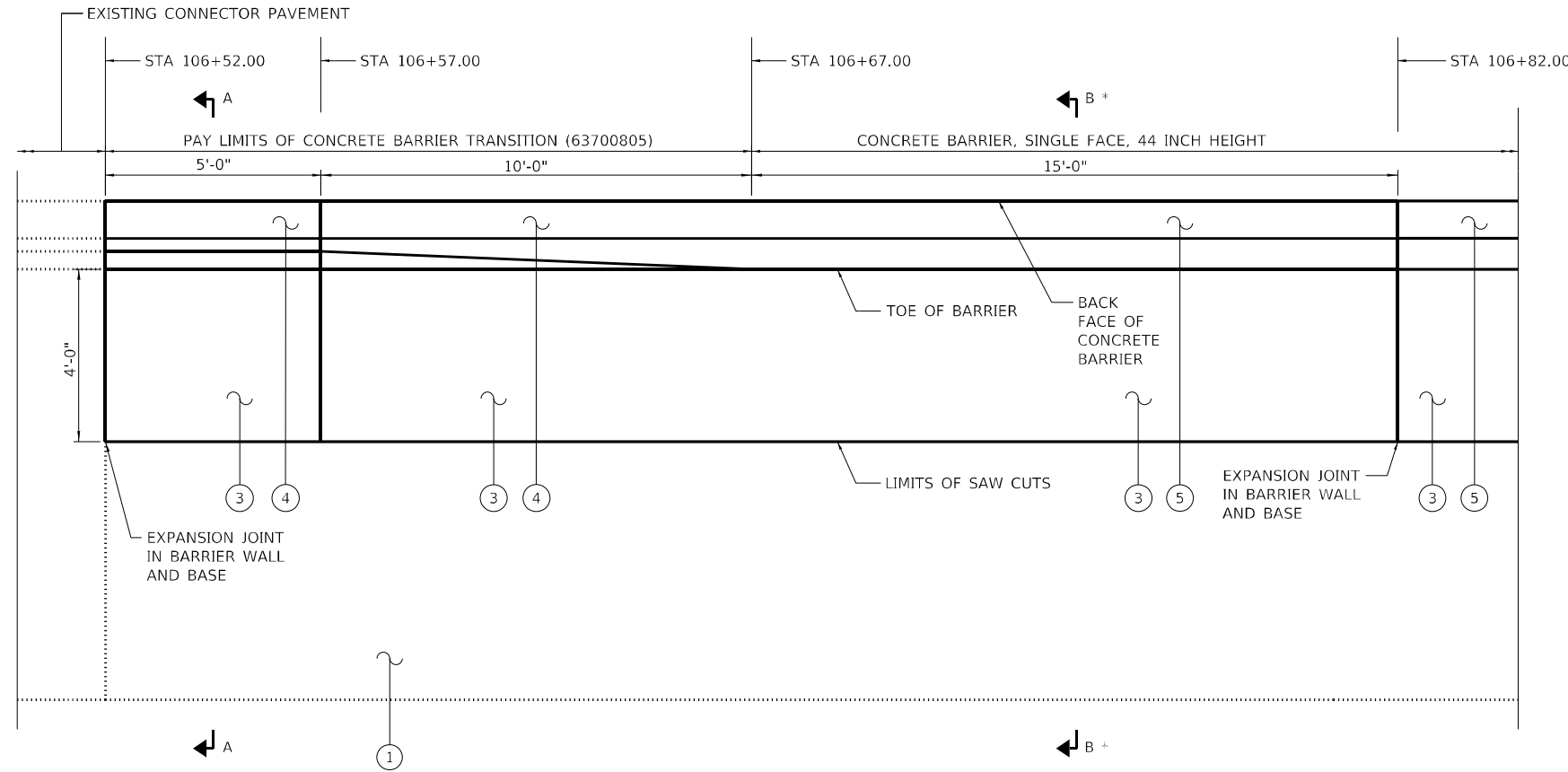
**NOTES**

\* REFER TO SHEET NO. 14 FOR CROSS SECTION DETAILS OF CONCRETE BARRIER, SINGLE FACE, 44 INCH HEIGHT.

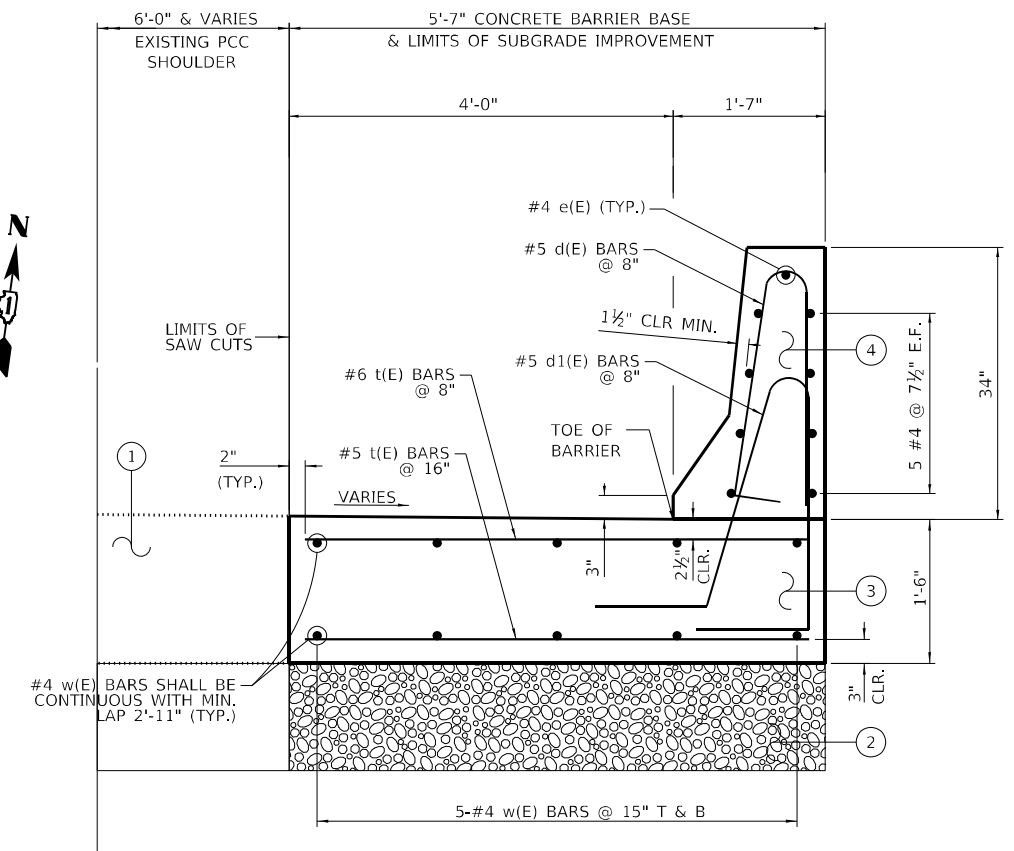


**BAR d1(E)**

**BAR d(E)**



**PLAN VIEW**



**SECTION A-A**

FROM STA 106+52.00 TO STA 106+57.00

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)  
ROADWAY DETAILS**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

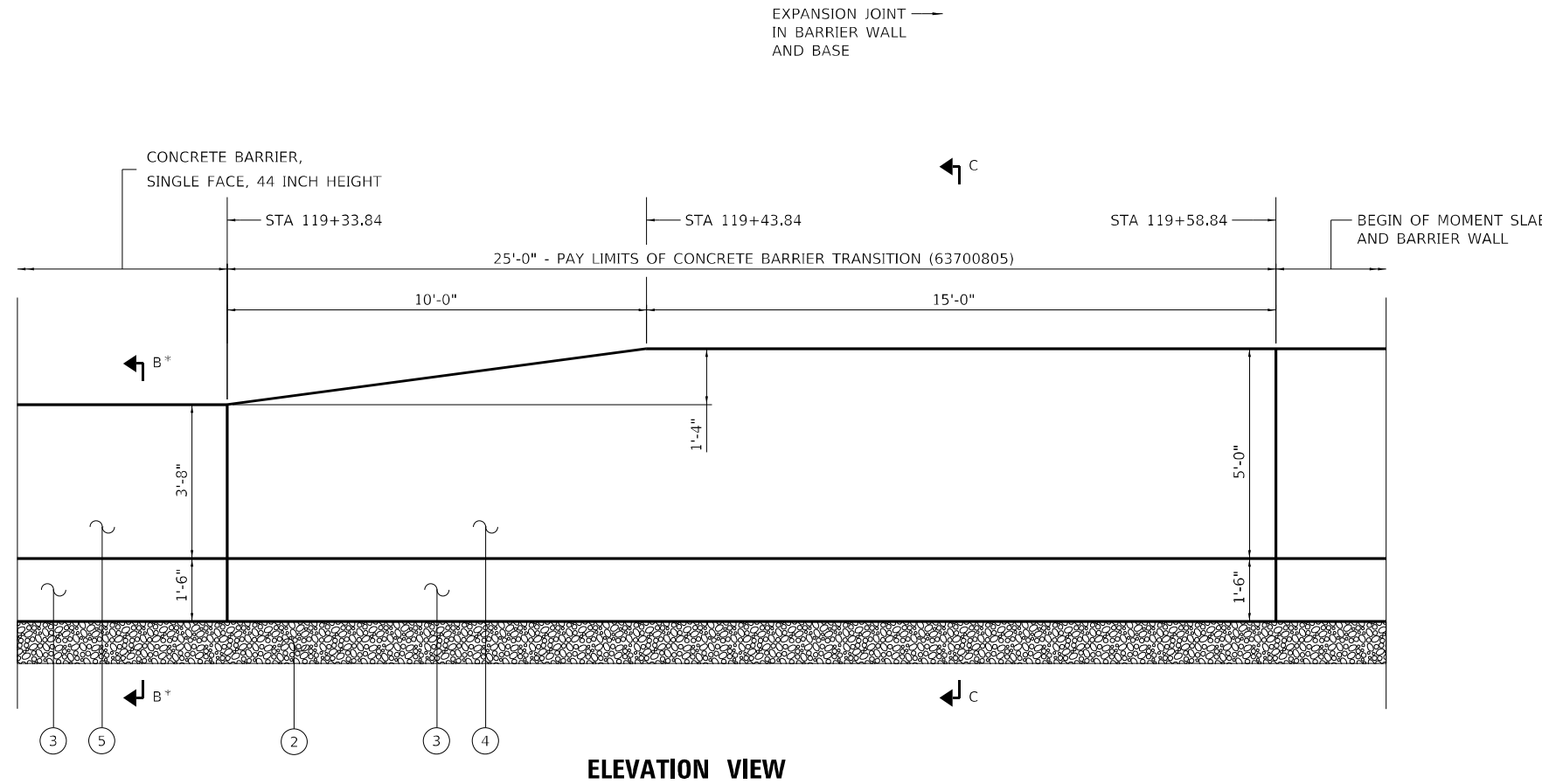
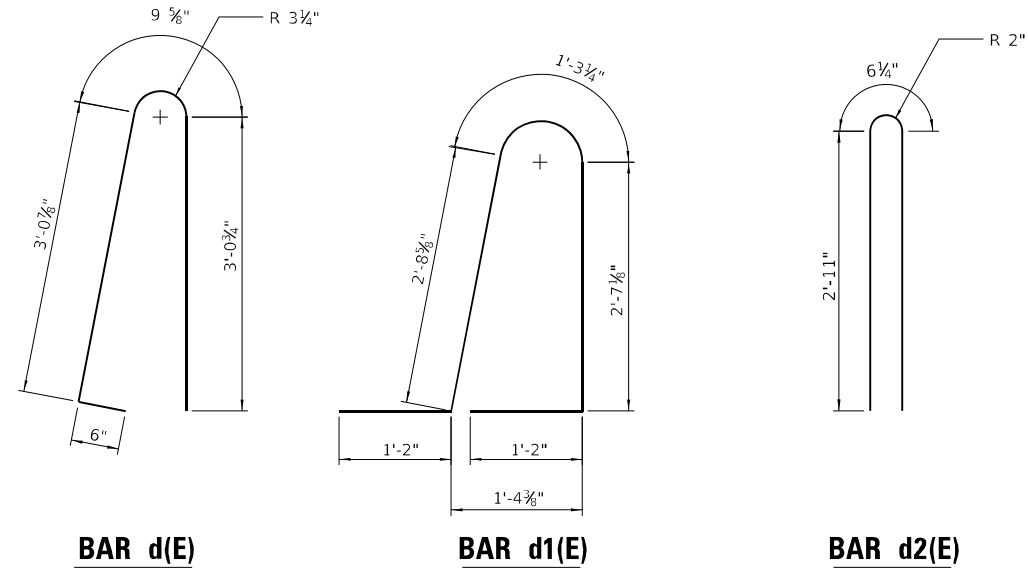
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CONTRACT NO. 62P54			ILLINOIS FED. AID PROJECT	

**LEGEND**

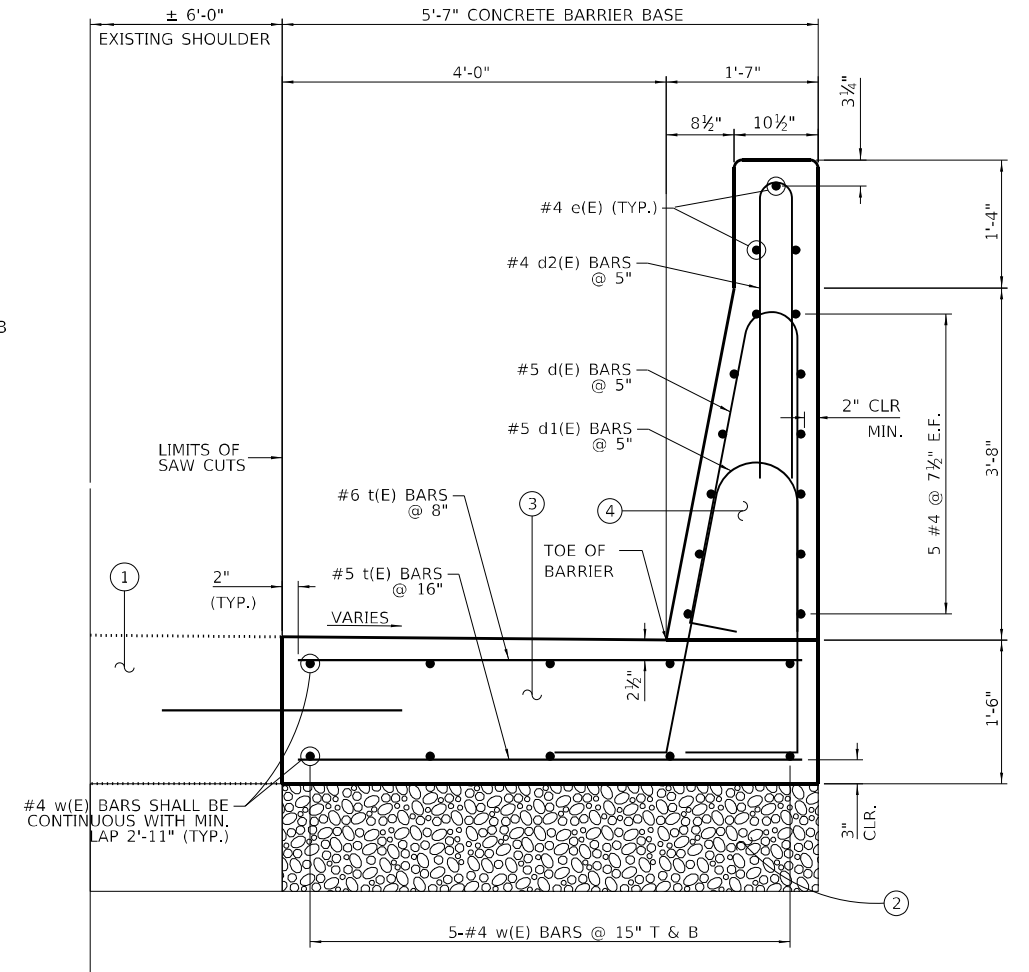
- ① EXISTING PPC SHOULDER
- ② AGGREGATE SUBGRADE IMPROVEMENT 12"
- ③ CONCRETE BARRIER BASE
- ④ CONCRETE BARRIER TRANSITION
- ⑤ CONCRETE BARRIER, SINGLE FACE, 44 INCH HEIGHT

**NOTES**

\* REFER TO SHEET NO. 14 FOR CROSS SECTION DETAILS OF CONCRETE BARRIER, SINGLE FACE, 44 INCH HEIGHT.



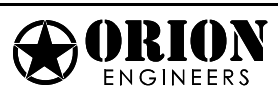
**ELEVATION VIEW**



**SECTION C-C**

FROM STA 119+33.84 TO STA 119+58.84

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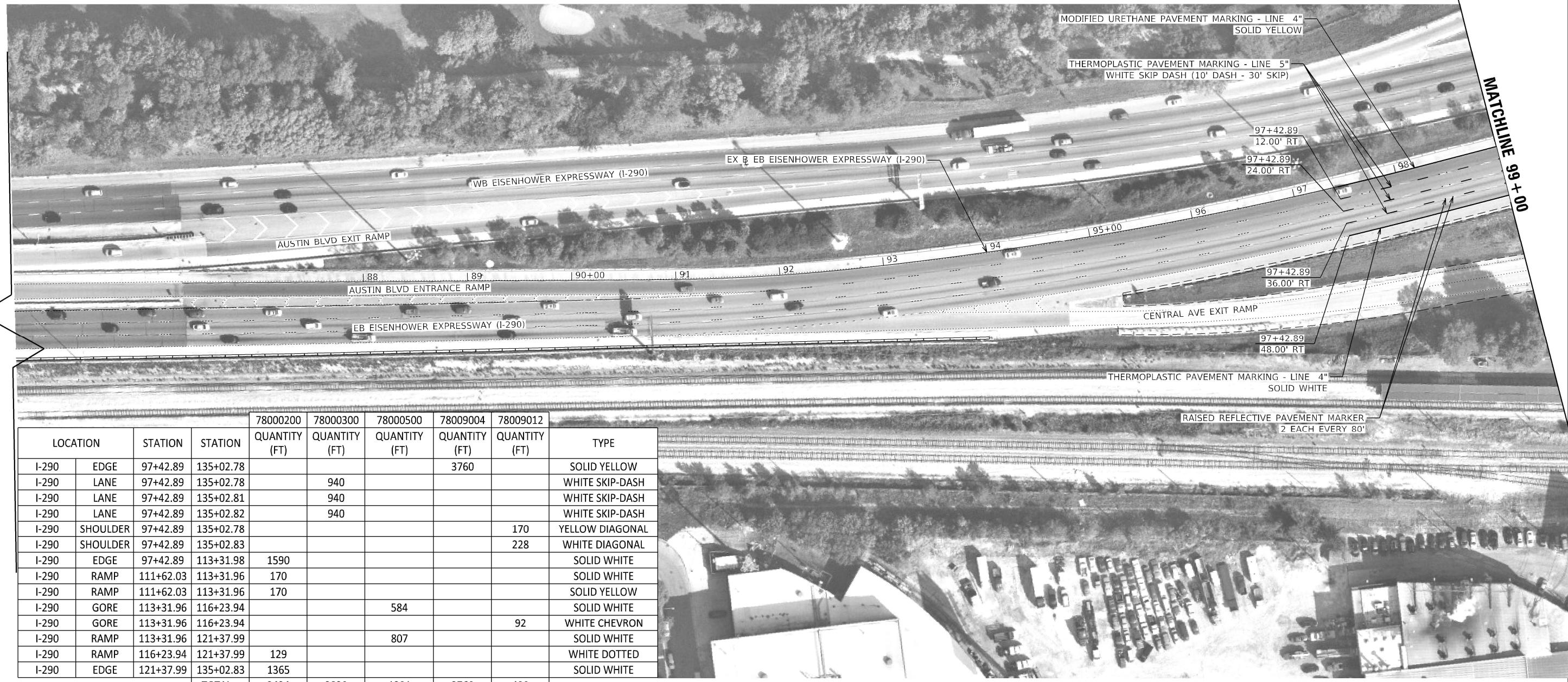
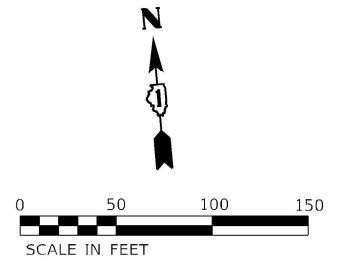
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)  
ROADWAY DETAILS**

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.J. RTE. 290	SECTION 2021-136-I	COUNTY COOK	TOTAL SHEETS 46	SHEET NO. 16
CONTRACT NO. 62P54				
ILLINOIS FED. AID PROJECT				





LOCATION	STATION	STATION	78000200 QUANTITY (FT)	78000300 QUANTITY (FT)	78000500 QUANTITY (FT)	78009004 QUANTITY (FT)	78009012 QUANTITY (FT)	TYPE
I-290	EDGE	97+42.89	135+02.78			3760		SOLID YELLOW
I-290	LANE	97+42.89	135+02.78	940				WHITE SKIP-DASH
I-290	LANE	97+42.89	135+02.81	940				WHITE SKIP-DASH
I-290	LANE	97+42.89	135+02.82	940				WHITE SKIP-DASH
I-290	SHOULDER	97+42.89	135+02.78				170	YELLOW DIAGONAL
I-290	SHOULDER	97+42.89	135+02.83				228	WHITE DIAGONAL
I-290	EDGE	97+42.89	113+31.98	1590				SOLID WHITE
I-290	RAMP	111+62.03	113+31.96	170				SOLID WHITE
I-290	RAMP	111+62.03	113+31.96	170				SOLID YELLOW
I-290	GORE	113+31.96	116+23.94		584			SOLID WHITE
I-290	GORE	113+31.96	116+23.94				92	WHITE CHEVRON
I-290	RAMP	113+31.96	121+37.99		807			SOLID WHITE
I-290	RAMP	116+23.94	121+37.99	129				WHITE DOTTED
I-290	EDGE	121+37.99	135+02.83	1365				SOLID WHITE
TOTAL =			3424	2820	1391	3760	490	

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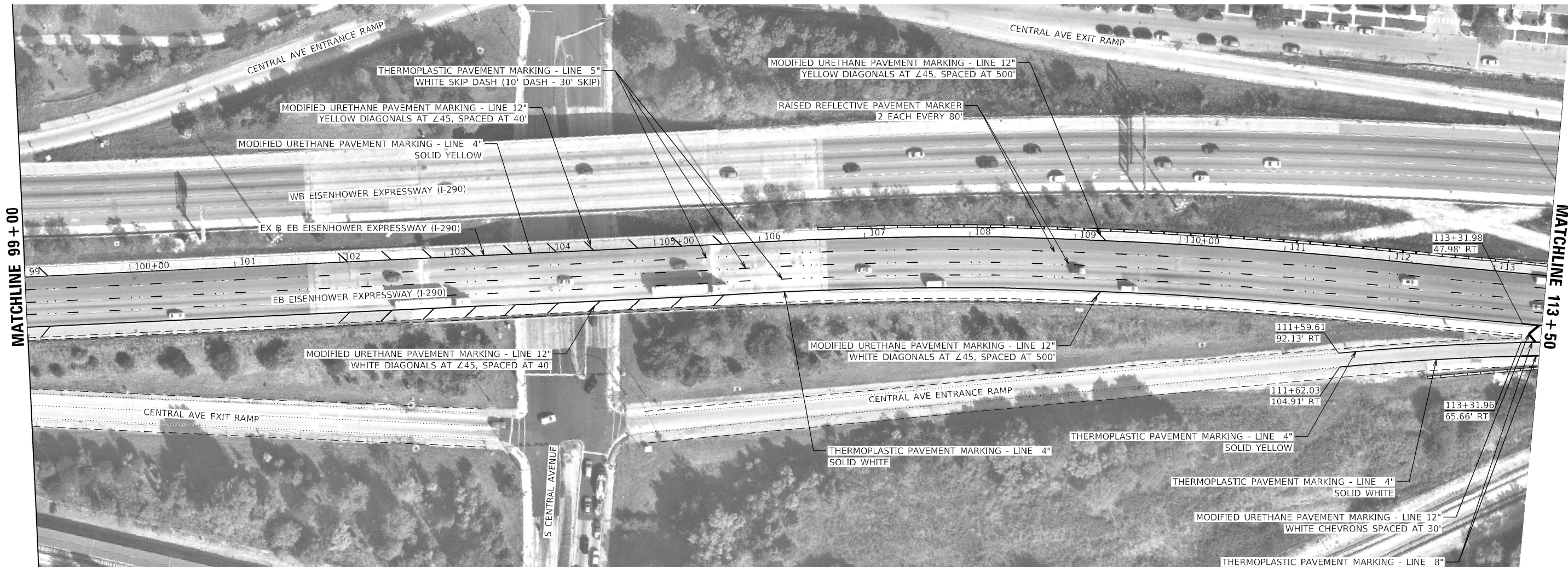
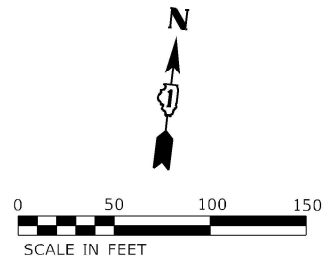
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	DATE - 01/21/2022	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)**  
**PAVEMENT MARKING PLAN**

SCALE: 1"=50'    SHEET 1 OF 4 SHEETS    STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	17
CONTRACT NO. 62P54				
ILLINOIS FED. AID PROJECT				



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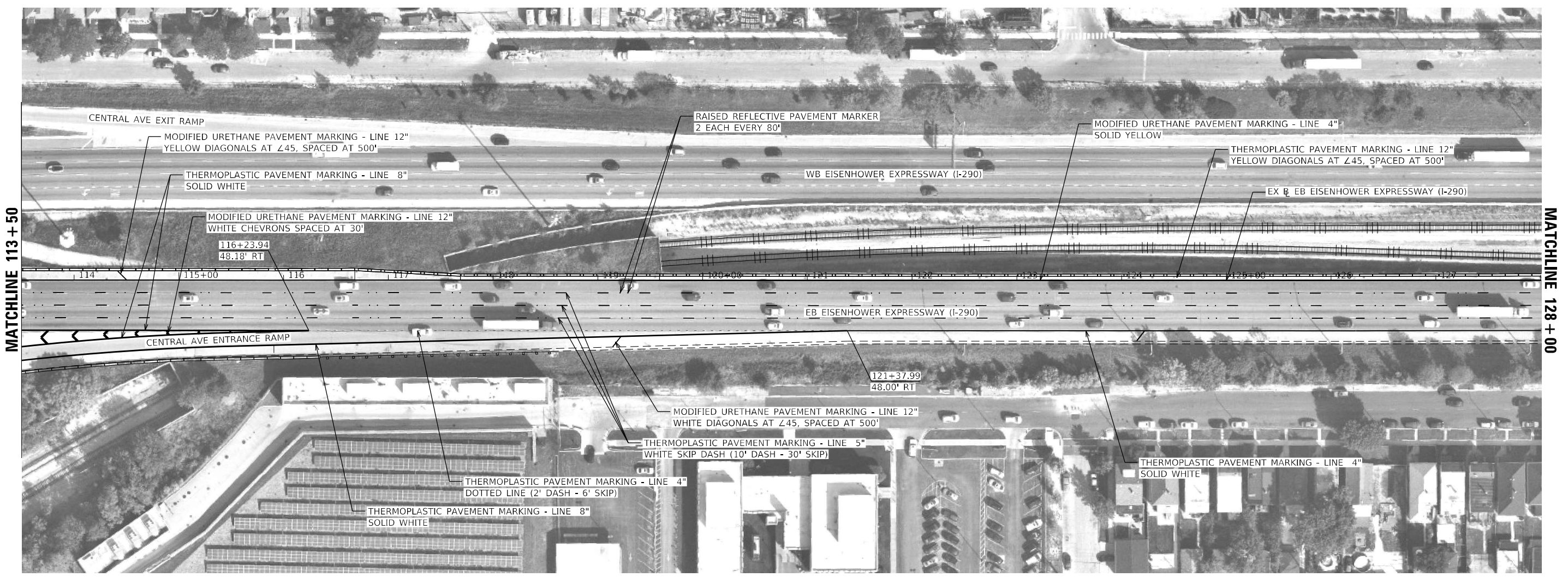


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DRAWN - LEB	REVISED -	
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PLOT DATE = 3/23/2022	DATE - 01/21/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EISENHOWER EXPRESSWAY (I-290) PAVEMENT MARKING PLAN</b>	
SCALE: 1"=50'	SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	18
CONTRACT NO. 62P54				
ILLINOIS FED. AID PROJECT				



MATCHLINE 113 + 50

MATCHLINE 128 + 00

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JOB: I-290 PAVEMENT MARKING PLAN  
DATE: 3/23/2022



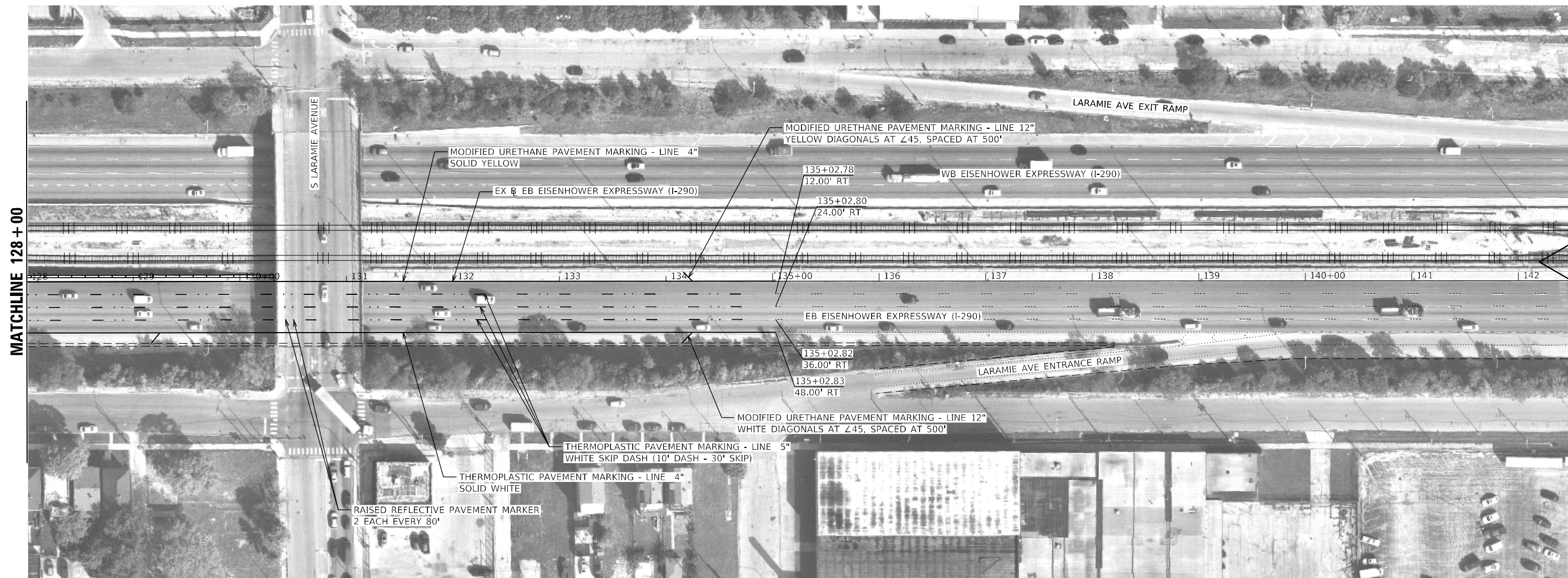
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)  
PAVEMENT MARKING PLAN**

SCALE: 1"=50'    SHEET 3 OF 4 SHEETS    STA.    TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	19
CONTRACT NO. 62P54				
ILLINOIS FED. AID PROJECT				



MATCHLINE 128 + 00

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PLOT DATE = 3/23/2022	DATE - 01/21/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EISENHOWER EXPRESSWAY (I-290) PAVEMENT MARKING PLAN</b>			
SCALE: 1"=50'	SHEET 4	OF 4 SHEETS	STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	20
CONTRACT NO. 62P54				
ILLINOIS FED. AID PROJECT				

## SEQUENCE OF CONSTRUCTION

**CONSTRUCTION:** DURING STAGE 1 CONSTRUCTION WILL CONSIST OF REMOVING THE TEMPORARY AND PERMANENT CONCRETE BARRIER AND REPLACING IT WITH NEW 44" SINGLE FACE CONCRETE BARRIER AT THE LOCATIONS NOTED ON THE PLANS. IT WILL ALSO INVOLVE REMOVING THE EXISTING MOMENT SLAB AND BARRIER WALL AND REPAIRING THE EXISTING RETAINING WALL. ONCE THE RETAINING WALL IS REPAIRED A NEW MOMENT SLAB AND 60" CONCRETE BARRIER WILL BE INSTALLED AT THE LOCATIONS NOTED ON THE PLANS. WHEN CONSTRUCTION IS COMPLETED PERMANENT PAVEMENT MARKINGS WILL BE INSTALLED PER THE PAVEMENT MARKING PLANS.

**TRAFFIC:** DURING STAGE 1, THE FOUR LANES OF EXISTING EB TRAFFIC WILL BE SHIFTED OVER 6'-3" ONTO FOUR 11' LANES. THE TRAFFIC SHIFT WILL UTILIZE THE OUTSIDE SHOULDER PER THE SUGGESTED STAGES OF CONSTRUCTION & TRAFFIC CONTROL PLANS.

## STAGING GENERAL NOTES

1. THE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL DEPICTED HEREIN IS THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES AS SPECIFIED IN THE HIGHWAY STANDARDS AS SHOWN IN THE INDEX OF SHEETS AND THE SPECIAL PROVISIONS SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. ALL TRAFFIC CONTROL DEVICES SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (EXPRESSWAYS) UNLESS OTHERWISE INDICATED WITHIN THESE GENERAL NOTES, PLANS OR SPECIAL PROVISIONS.
2. THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE ALL SIGNS AND SIGN SUPPORTS REQUIRED FOR SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL.
3. THE CONTRACTOR SHALL CONTACT THE IDOT DISTRICT ONE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR CARLOS MUNOZ AT CARLOS.MUNOZ@ILLINOIS.GOV (847)-705-4155 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
4. DRUMS OR TYPE II BARRICADES EQUIPPED WITH BI-DIRECTIONAL STEADY BURN LIGHTS SHALL BE PROVIDED AS SHOWN IN THE PLANS.
5. ALL "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE EQUIPPED WITH MONO-DIRECTIONAL TYPE A AMBER FLASHING LIGHTS.
6. ALL EXISTING SIGNS THAT CONFLICT WITH THE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLANS SHALL BE COVERED OR REMOVED IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
7. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE DESIGNATED SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN.
8. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLANS, SPECIAL PROVISIONS, APPLICABLE STATE STANDARDS, AND AS DIRECTED BY THE ENGINEER. ANY CHANGES TO THE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLANS SHALL BE SUBMITTED TO THE ENGINEERS FOR APPROVAL PRIOR TO IMPLEMENTING ANY CHANGES.
9. TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY, OR REMOVE LANE CLOSURES SHOWN IN THE PLANS. THE CONTRACTOR SHALL PROMPTLY RESPOND AT THE TIME OF NOTIFICATION BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC CONTROL DEVICES.
10. THE ENGINEER SHALL BE INFORMED A MINIMUM OF 48 HOURS IN ADVANCE OF ANY PROPOSED CHANGE TO THE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN.
11. ALL TEMPORARY PAVEMENT MARKINGS SHOWING DETERIORATION AFTER SEVEN (7) DAYS OF SERVICE SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. ALL MARKINGS THAT REQUIRE REPLACEMENT PRIOR TO SEVEN (7) DAYS OF SERVICE SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
12. WHEN THEY ARE NO LONGER NECESSARY ALL TRAFFIC CONTROL DEVICES SHALL IMMEDIATELY BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC. WHEN A SIGN IS COVERED, ITS POST SHALL HAVE A REFLECTIVE 3"x6" DELINEATOR INSTALLED. THE COST OF THE DELINEATOR IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (EXPRESSWAYS).
13. TEMPORARY CONCRETE BARRIERS AND TEMPORARY IMPACT ATTENUATORS SHALL BE PLACED AS SHOWN IN THE PLANS. FURNISHING, INSTALLING, AND RELOCATING TEMPORARY CONCRETE BARRIER AND TEMPORARY IMPACT ATTENUATORS SHALL BE IN ACCORDANCE WITH IDOT SPECIAL PROVISIONS, IDOT HIGHWAY STANDARDS, STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.
14. IMMEDIATELY AFTER THE COMPLETION OF CONSTRUCTION, RESTORE ALL PERMANENT PAVEMENT MARKINGS, SIGNS AND OTHER TRAFFIC CONTROL DEVICES THAT WERE COVERED, REMOVED, DAMAGED OR OTHERWISE AFFECTED BY CONSTRUCTION.

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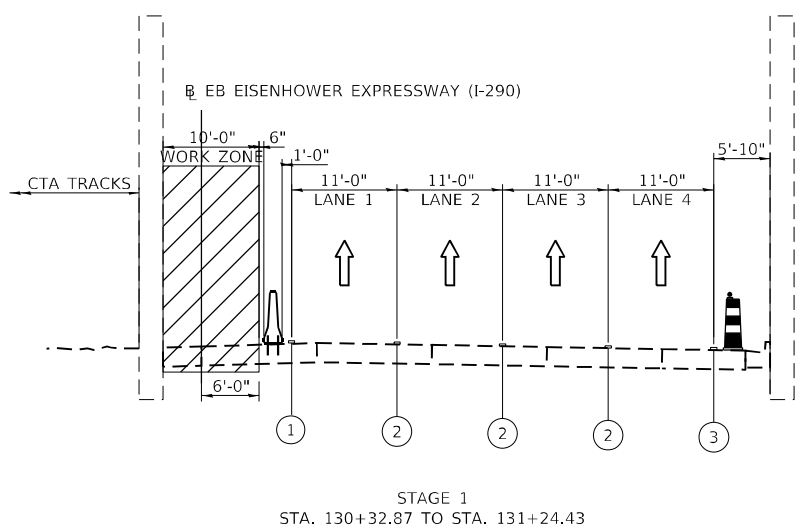
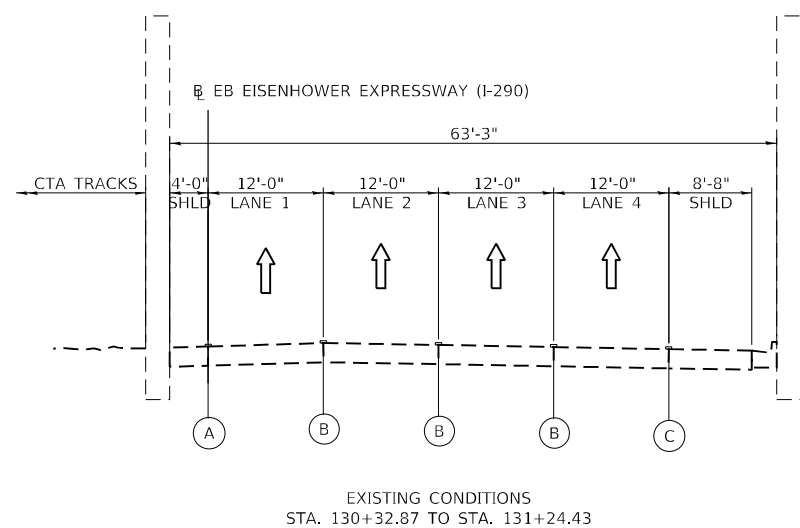
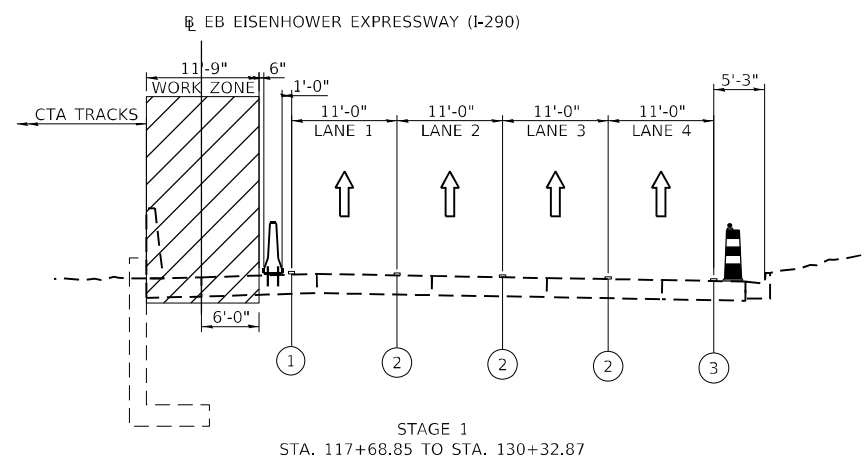
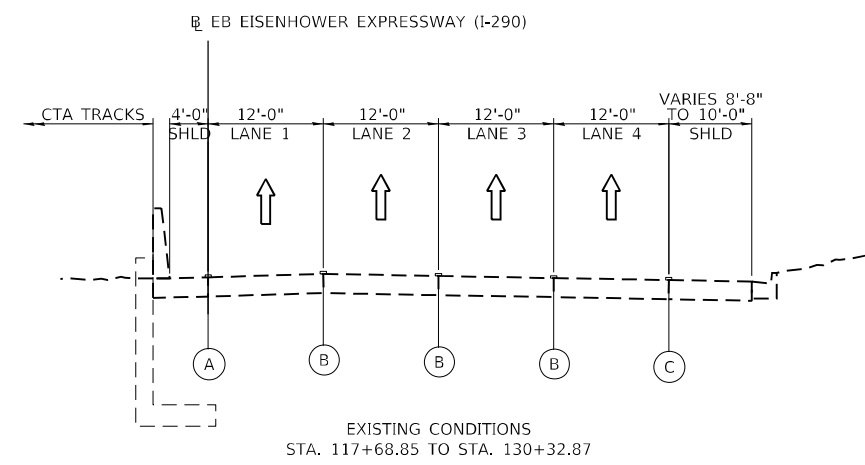
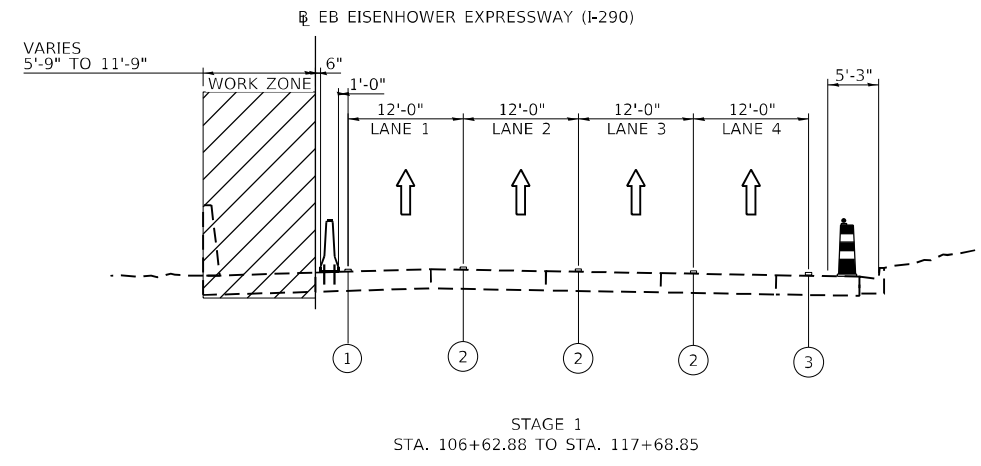
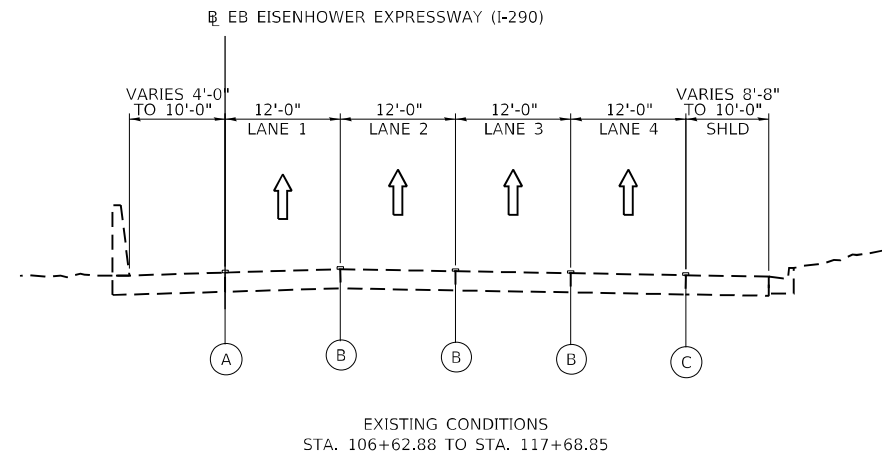
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED STAGES OF CONSTRUCTION & TRAFFIC CONTROL  
GENERAL NOTES & SEQUENCING NOTES**

SCALE: N.T.S SHEET OF SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	21
			CONTRACT NO. 62P54	
		ILLINOIS	FED. AID PROJECT	



- ### LEGEND
- WORK ZONE
  - DIRECTION OF TRAVEL ARROW
  - TYPE II BARRICADES OR DRUMS WITH STEADY BURN LIGHTS
  - TEMPORARY CONCRETE BARRIER  
PINNING TEMPORARY CONCRETE BARRIER  
BARRIER WALL REFLECTORS, TYPE C
  - EXISTING PAVEMENT MARKING - SOLID YELLOW
  - EXISTING PAVEMENT MARKING - SKIP DASH
  - EXISTING PAVEMENT MARKING - SOLID WHITE
  - TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID YELLOW)
  - TEMPORARY PAVEMENT MARKING - LINE 5" - TYPE IV TAPE (SKIP DASH)
  - TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE (SOLID WHITE)

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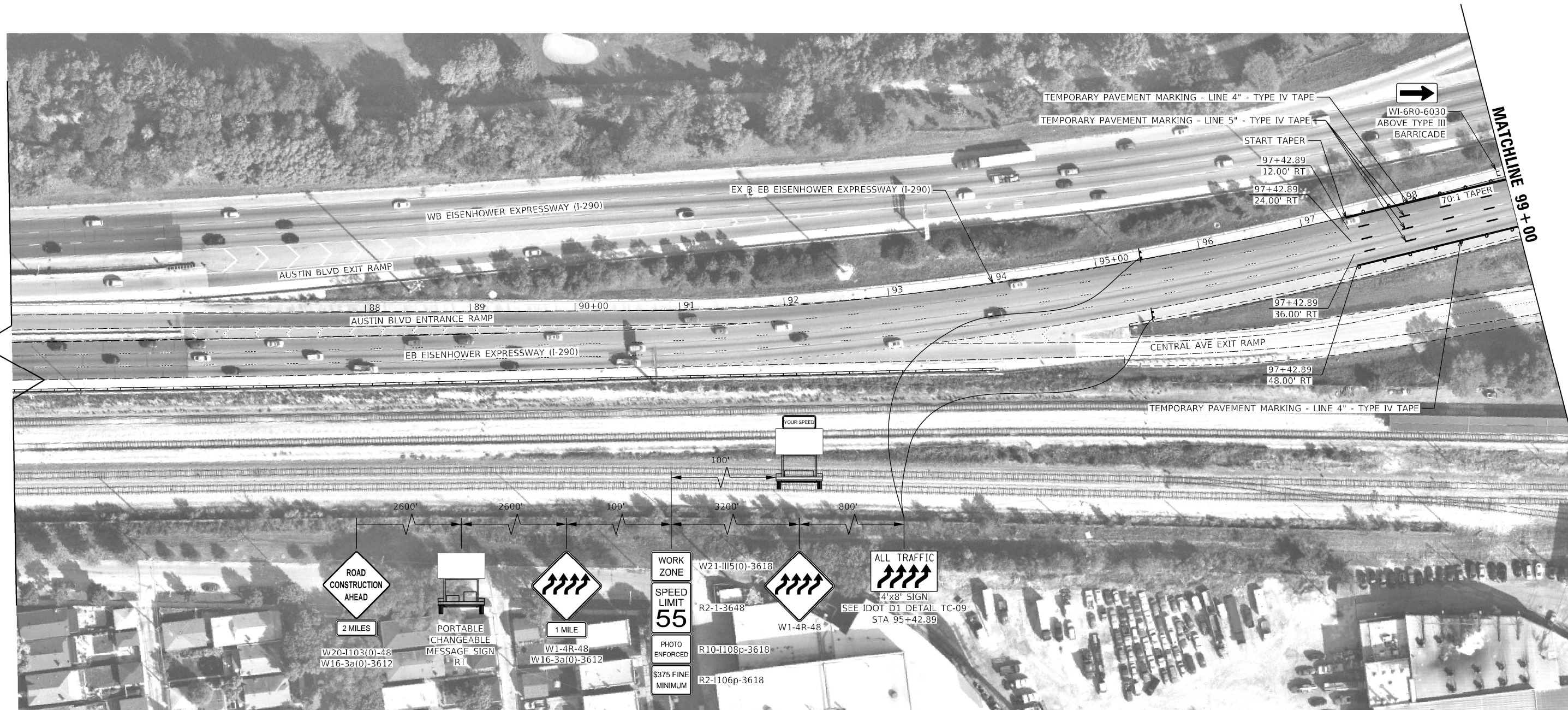
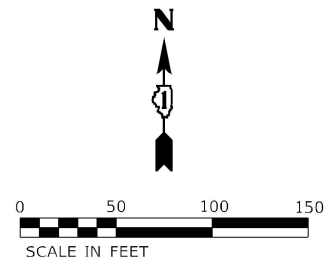


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PLOT DATE = 3/23/2022	DATE - 01/21/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EISENHOWER EXPRESSWAY (I-290)</b>			
<b>SUGGESTED STAGES OF CONSTRUCTION &amp; TRAFFIC CONTROL - TYPICAL SECTIONS</b>			
SCALE: N.T.S.	SHEET 1 OF 1 SHEETS	STA. TO STA.	

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	22
CONTRACT NO. 62P54			ILLINOIS FED. AID PROJECT	



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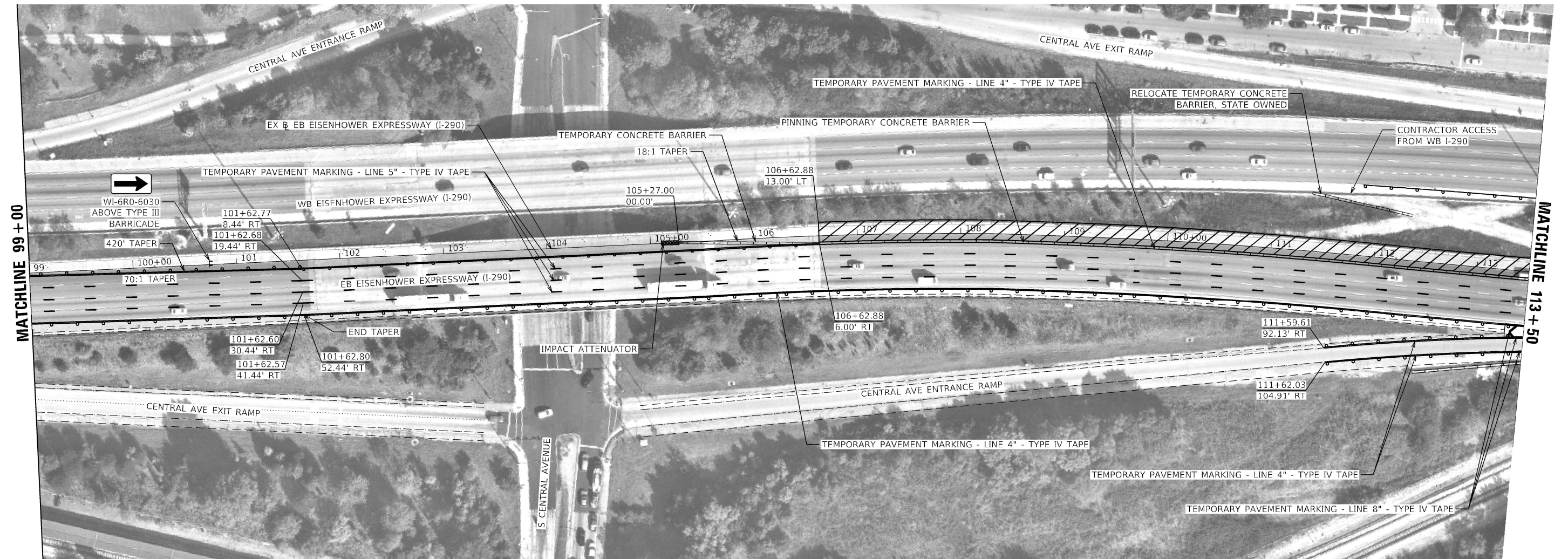
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)**  
**SUGGESTED STAGES OF CONSTRUCTION & TRAFFIC CONTROL - STAGE 1**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	23
CONTRACT NO. 62P54			ILLINOIS FED. AID PROJECT	

SCALE: 1"=50'    SHEET 1 OF 4 SHEETS    STA.    TO STA.



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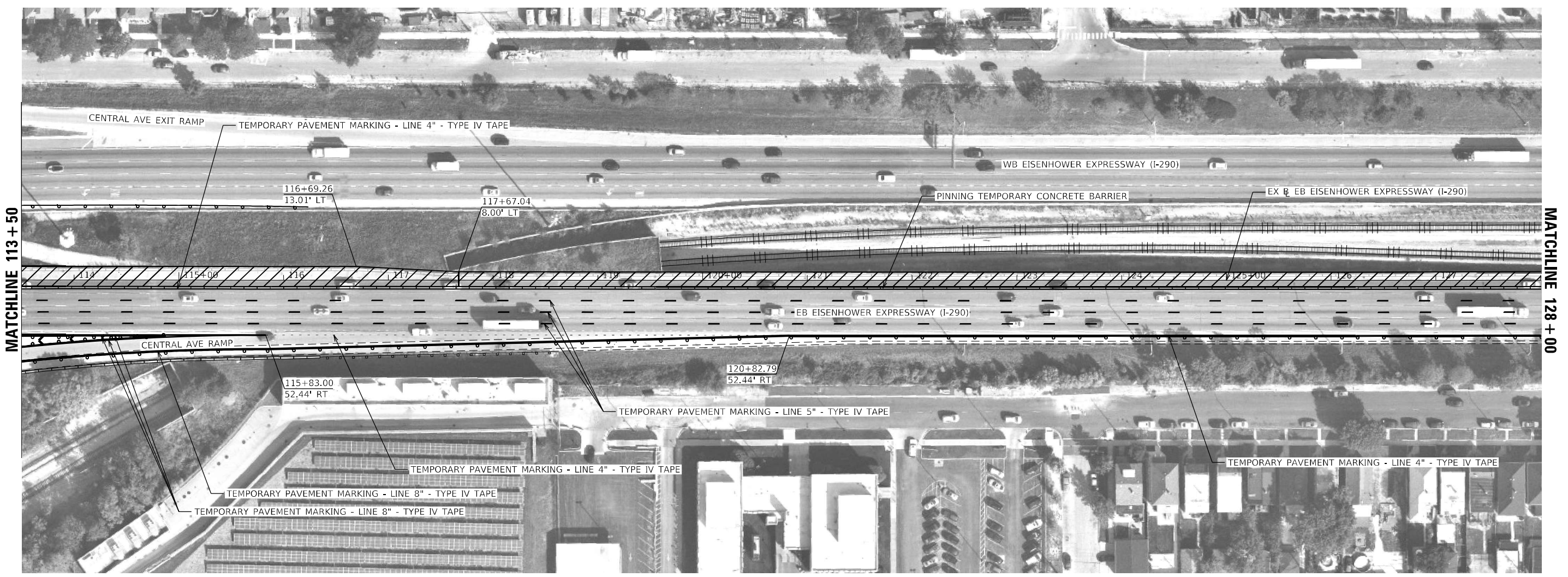
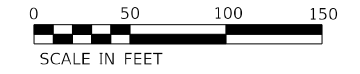
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)**  
**SUGGESTED STAGES OF CONSTRUCTION & TRAFFIC CONTROL - STAGE 1**

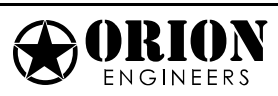
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CONTRACT NO. 62P54				
ILLINOIS FED. AID PROJECT				





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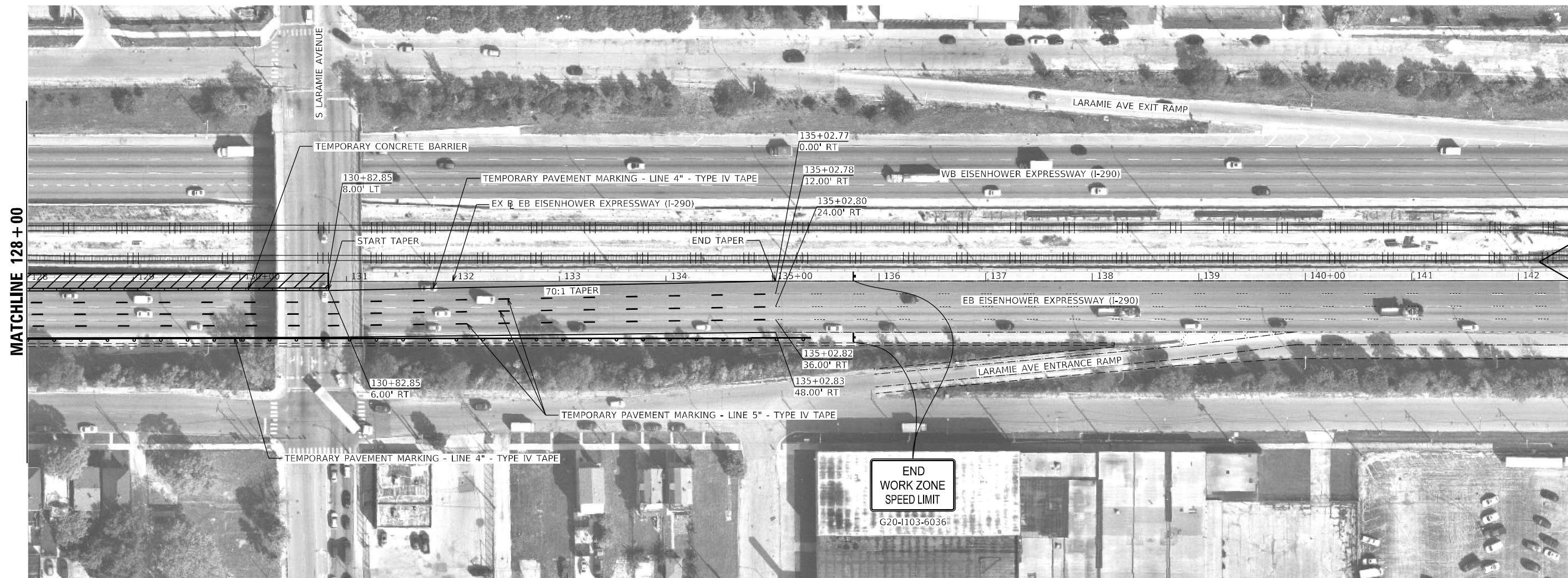
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)**  
**SUGGESTED STAGES OF CONSTRUCTION & TRAFFIC CONTROL - STAGE 1**

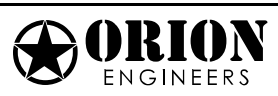
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CONTRACT NO. 62P54				
ILLINOIS FED. AID PROJECT				



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PLOT DATE = 3/23/2022	DATE - 01/21/2022	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)  
SUGGESTED STAGES OF CONSTRUCTION & TRAFFIC CONTROL - STAGE 1**

SCALE: 1"=50'    SHEET 4 OF 4 SHEETS    STA.    TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	26
CONTRACT NO. 62P54				
ILLINOIS FED. AID PROJECT				

Existing Structure: Existing retaining wall was build circa 1956. It consist of L-shaped gravity reinforced concrete Retaining Wall. Existing 62-inch Concrete Barrier is located along the top of the existing Retaining Wall. The construction date of existing barrier wall is unknown.

**DESIGN SPECIFICATIONS**

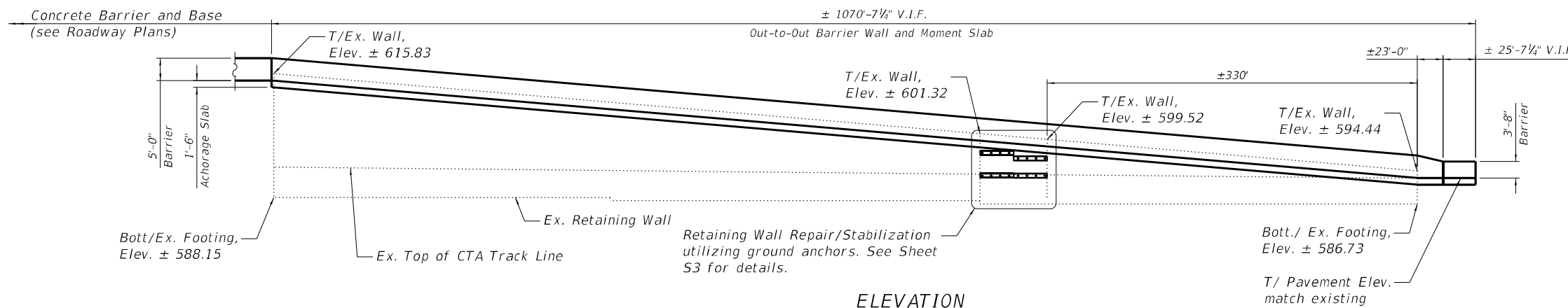
2002 AASHTO Standard Specifications for Highway Bridges 17th Edition

**DESIGN STRESSES**

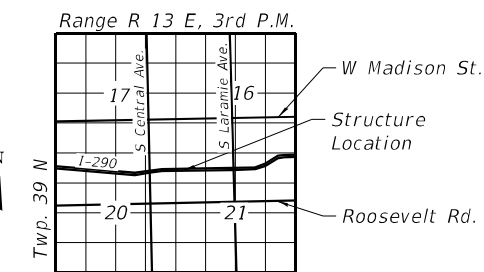
$f'_c = 4,000$  psi (Concrete)  
 $f_y = 60,000$  psi (Reinforcement)

**SCOPE OF WORK**

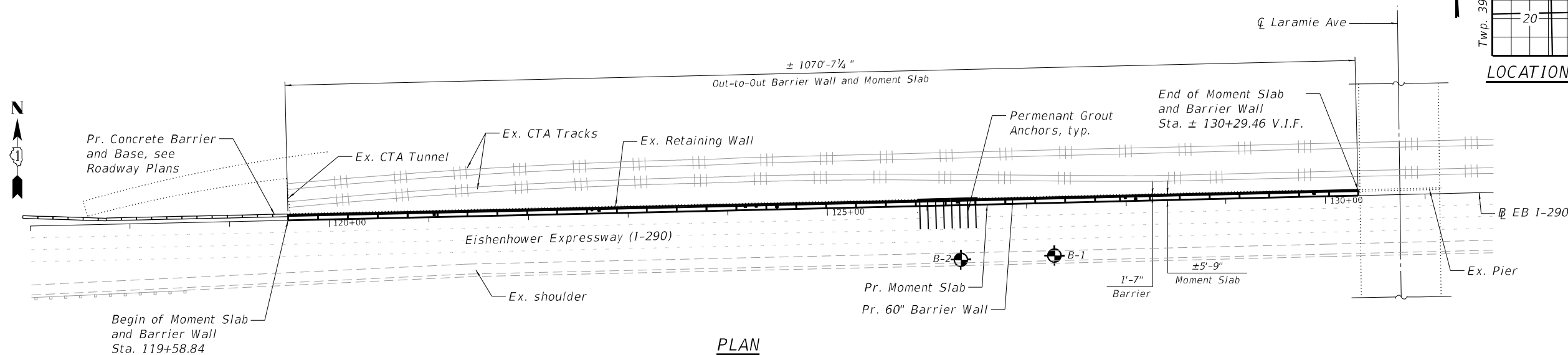
1. Demolish and remove existing Concrete Barrier and Moment Slab.
2. Repair failed portion of existing retaining wall with ground anchors.
3. Construct new Moment Slab and Concrete Barrier.



**ELEVATION**



**LOCATION SKETCH**



**PLAN**



**GENERAL PLAN AND ELEVATION**  
**EB - EISENHOWER EXPRESSWAY (I-290)**  
**F.A.P. 290 - SEC. 2021-136-I**  
**COOK COUNTY**

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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)**  
**GENERAL PLAN AND ELEVATION**

SHEET S1 OF S14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	27
CONTRACT NO. 62P54				

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. These plans have been prepared from notes received from the Bureau of Maintenance, Bridge Section.
4. The Contractor shall coordinate with Chicago Transit Authority (CTA) regarding all work associated with existing retaining wall repair and obtain all necessary CTA Right-of-Way entrance permits.
5. All exposed concrete edges shall have a 3/4" x 45° chamfer, except where shown otherwise. Chamfer on vertical edges shall be continued a minimum of one foot below finished ground level.
6. Reinforcement bar bending dimensions are out-to-out.
7. The Contractor shall use care when excavating around existing retaining wall and during the demolition/removal operations of existing barrier. Any damage to the existing structure shall be repaired or replaced at the Contractor's expense.
8. Existing broken frames and grates shall be removed and disposed by the contractor. Cost of new frame and grate construction shall be paid for at the contract unit price per each for Catch Basins To Be Adjusted With New Type 4 Frame And Grate and Manholes To Be Adjusted With New Type 1 Frame, Closed Lid.

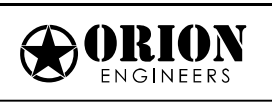
**INDEX OF SHEETS**

- S1 General Plan and Elevation
- S2 General Notes, Index of Sheets, and Bill of Material
- S3 Retaining Wall Repair Details
- S4 Barrier and Moment Slab (Sheet 1 of 9)
- S5 Barrier and Moment Slab (Sheet 2 of 9)
- S6 Barrier and Moment Slab (Sheet 3 of 9)
- S7 Barrier and Moment Slab (Sheet 4 of 9)
- S8 Barrier and Moment Slab (Sheet 5 of 9)
- S9 Barrier and Moment Slab (Sheet 6 of 9)
- S10 Barrier and Moment Slab (Sheet 7 of 9)
- S11 Barrier and Moment Slab (Sheet 8 of 9)
- S12 Barrier and Moment Slab (Sheet 9 of 9)
- S13 Barrier and Moment Slab Details
- S14 Soil Boring Logs

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Protective Coat	Sq. Yd.	1,219
Concrete Removal	Cu. Yd.	476.3
Concrete Superstructure	Cu. Yd.	482.3
Reinforcement Bars, Epoxy Coated	Pound	109,010
Catch Basins to Be Adjusted with New Type 4 Frame and Grate	Each	7
Manholes To Be Adjusted with New Type 1 Frame, Closed Lid	Each	5
Permenant Ground Anchor	Each	16
Pipe Underdrains, Type 1, 4"	Foot	1,071

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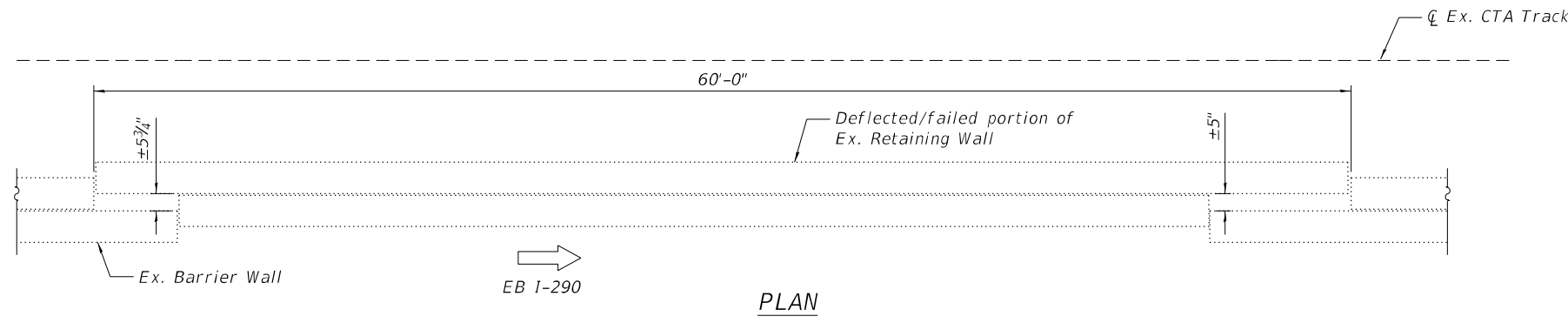
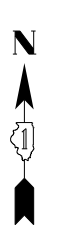


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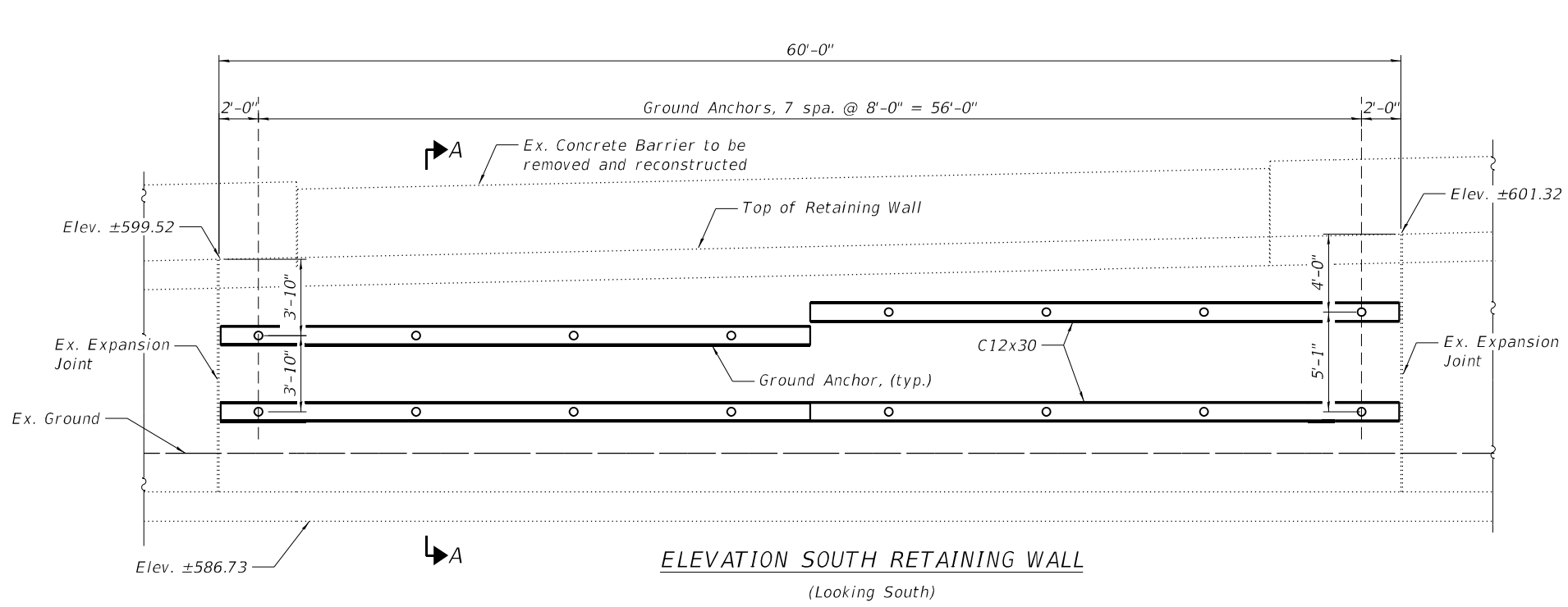
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)**  
**GENERAL NOTES, INDEX OF SHEET, AND BILL OF MATERIAL**

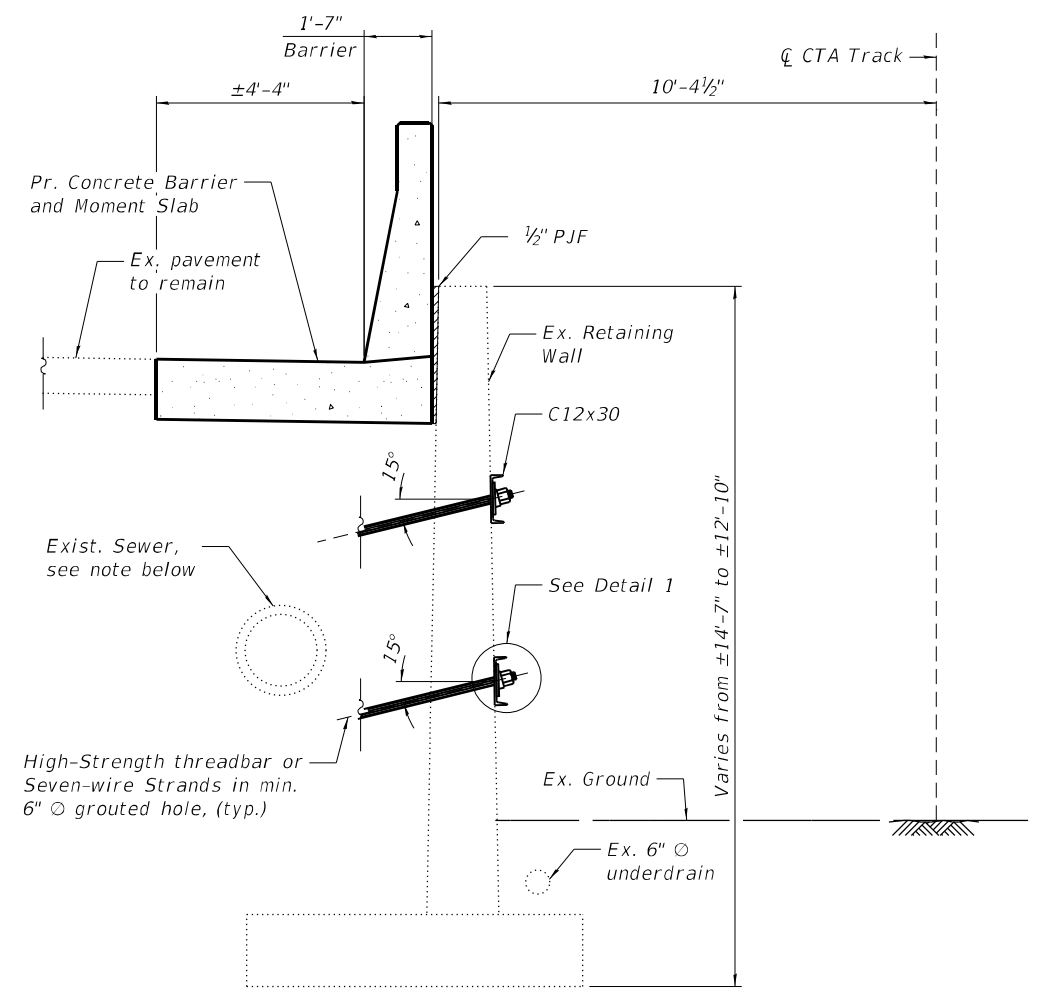
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			CONTRACT NO. 62P54	
SHEET 52 OF 54 SHEETS		ILLINOIS FED. AID PROJECT		



PLAN



ELEVATION SOUTH RETAINING WALL  
(Looking South)



SECTION A-A

Note:  
The Contractor shall locate the existing storm sewer prior to anchor installation. If the proposed anchors are determined to be in conflict with existing sewer, adjust the elevation and/or inclination of proposed anchors to clear the existing sewer. Contact Engineer for further direction.

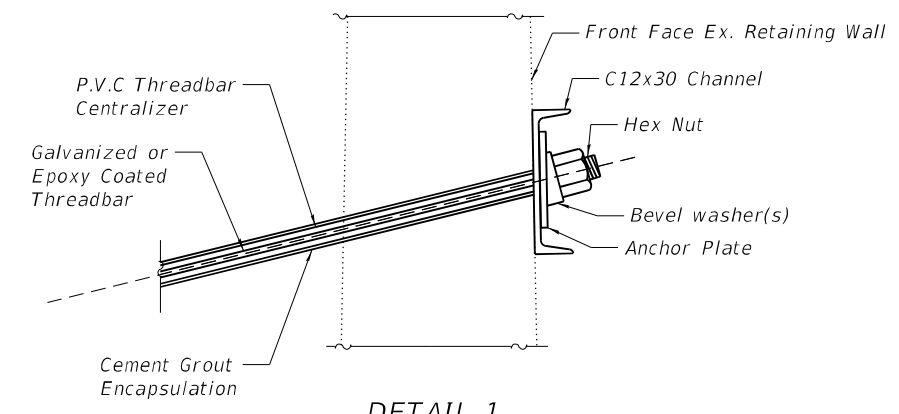
GROUND ANCHOR SUMMARY TABLE

Anchor Level	Design Load (kips)	Prestressing Steel*		Minimum unbonded Length	Estimated Bonded Length **
		Nominal Strand Diameter (in.)	Number of Strands		
Upper	55	0.217	3	15'-0"	28'
Lower	30	0.217	3	15'-0"	15'

\* The Prestressing Steel Tendon shall consist of one High-Strength Bar (AASHTO M 275) of the Nominal Diameter shown or the specified number of Seven-wire Strands (AASHTO M 203 Grade 270, 0.6'Ø)

\*\* Estimated length only. The Contractor shall determine the bonded length necessary to satisfy the Test Load Requirements.

The Contractor shall install all Lower Level Anchors prior to installation of the Upper Level Anchors.



DETAIL 1

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

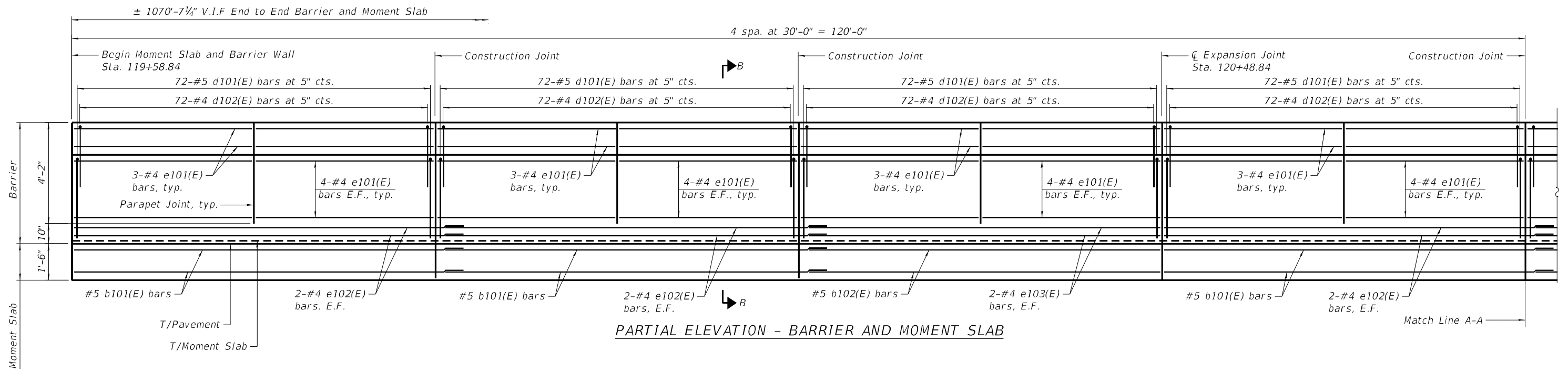
EISENHOWER EXPRESSWAY (I-290)  
RETAINING WALL REPAIR DETAILS

F.A.P. RTE. 290	SECTION 2021-136-I	COUNTY COOK	TOTAL SHEETS 46	SHEET NO. 29
CONTRACT NO. 62P54				

SHEET S3 OF S14 SHEETS

ILLINOIS FED. AID PROJECT

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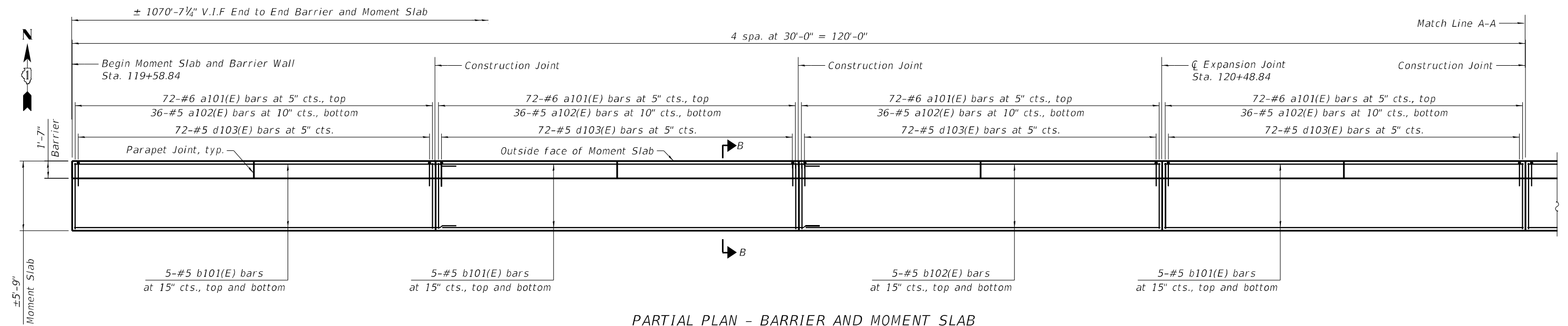
**PARTIAL ELEVATION - BARRIER AND MOMENT SLAB**

**MINIMUM BAR LAP**

#4 Bar = 2'-5"  
 #5 Bar = 3'-0"

**NOTES**

1. For Section B-B, See Sheet S13.
2. For bar details and Bill of Material, see Sheet S13.
3. For Expansion Joint Detail, see Sheet S13.
4. For Construction Joint Detail, see Sheet S13.



**PARTIAL PLAN - BARRIER AND MOMENT SLAB**



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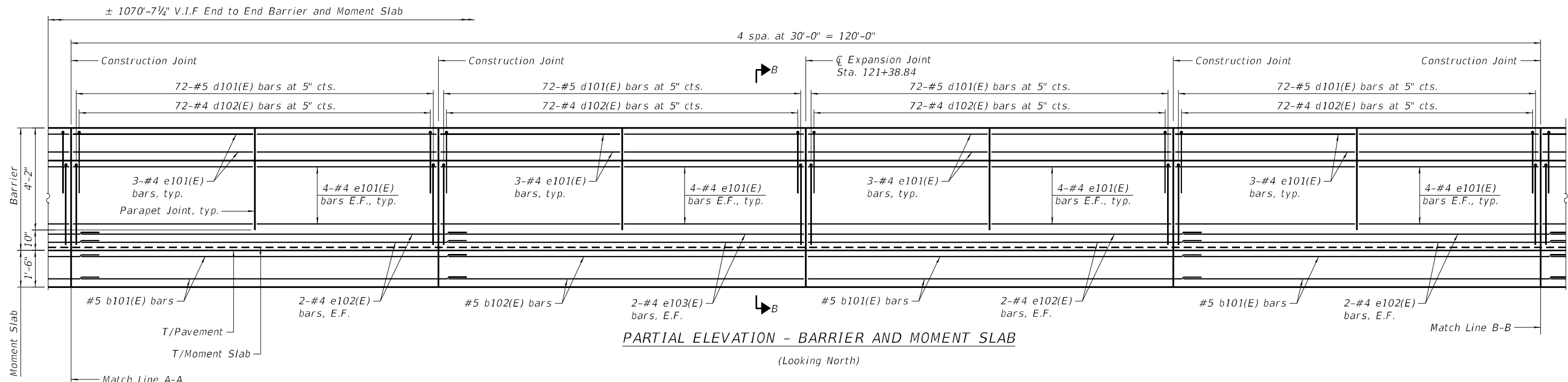
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)  
 BARRIER AND MOMENT SLAB (SHEET 1 OF 9)**

SHEET 54 OF 514 SHEETS

F.A.P. RTE. 290	SECTION 2021-136-I	COUNTY COOK	TOTAL SHEETS 46	SHEET NO. 30
CONTRACT NO. 62P54				
ILLINOIS FED. AID PROJECT				

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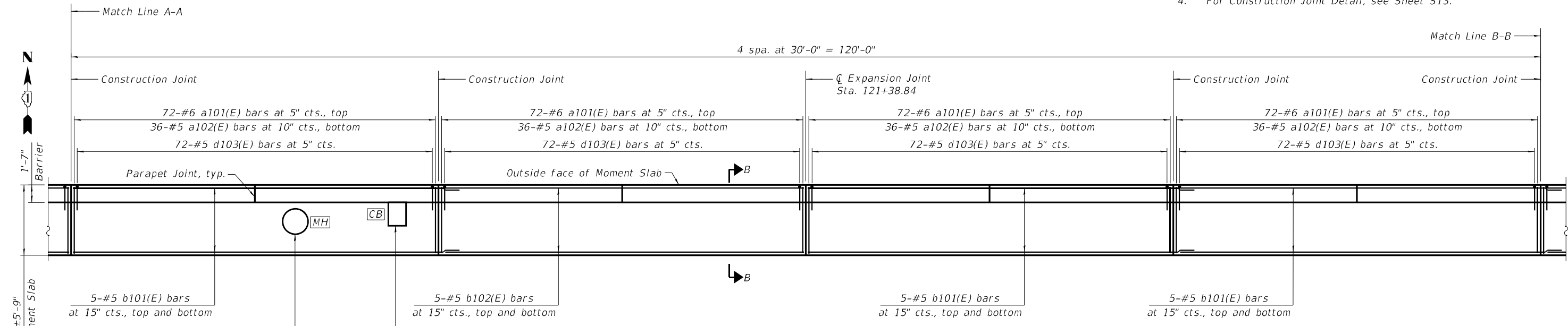


**PARTIAL ELEVATION - BARRIER AND MOMENT SLAB**  
 (Looking North)

**MINIMUM BAR LAP**  
 #4 Bar = 2'-5"  
 #5 Bar = 3'-0"

**NOTES**

1. For Section B-B, See Sheet S13.
2. For bar details and Bill of Material, see Sheet S13.
3. For Expansion Joint Detail, see Sheet S13.
4. For Construction Joint Detail, see Sheet S13.



**PARTIAL PLAN - BARRIER AND MOMENT SLAB**

Existing manhole to remain in place and to be adjusted, cost included in Manholes To Be Adjusted With New Type 1 Frame, Closed Lid, typical for all manholes.

Existing catch basin to remain in place and to be adjusted, cost included in Catch Basins To Be Adjusted With New Type 4 Frame And Grate, typical for all catch basins.



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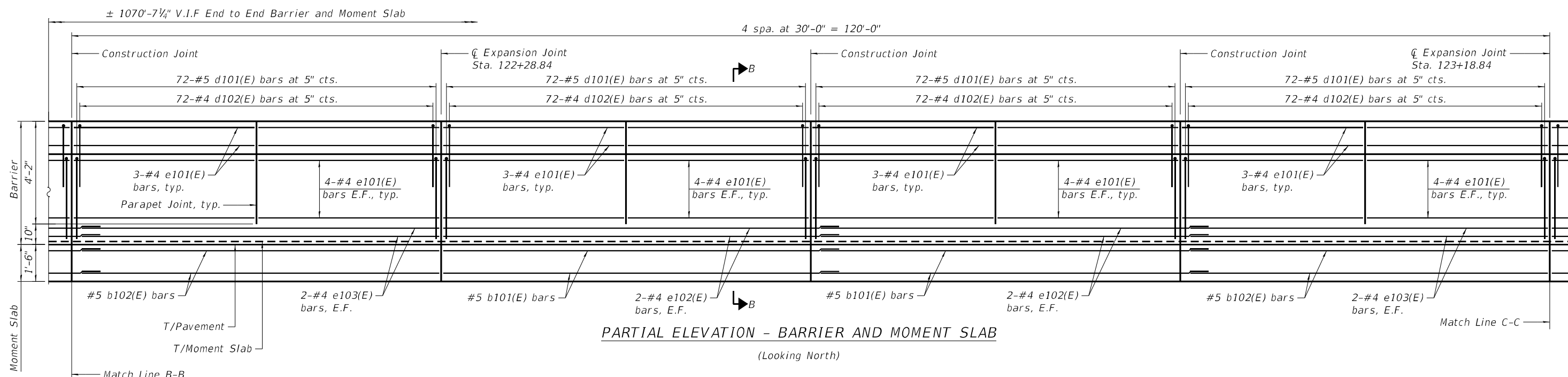
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)  
 BARRIER AND MOMENT SLAB (SHEET 2 OF 9)**

SHEET 55 OF 54 SHEETS

F.A.P. RTE. 290	SECTION 2021-136-I	COUNTY COOK	TOTAL SHEETS 46	SHEET NO. 31
CONTRACT NO. 62P54				

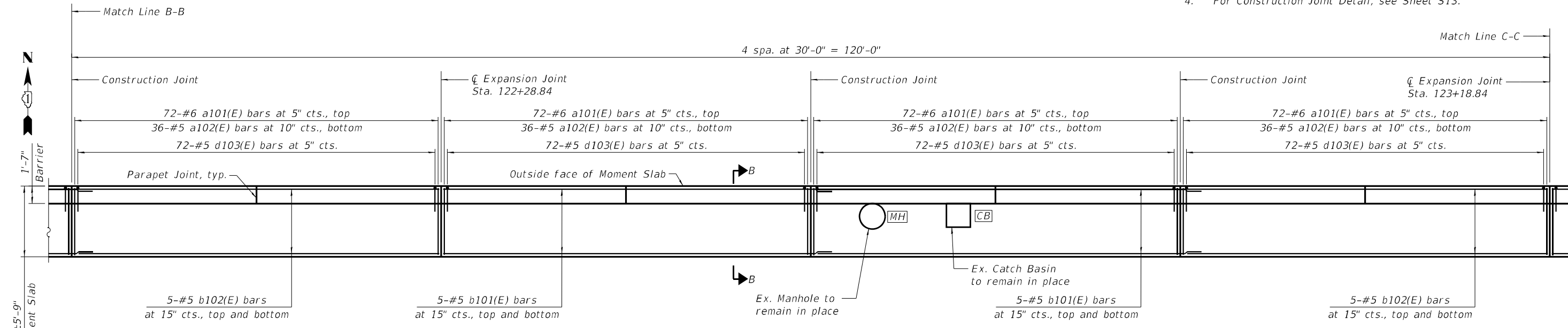
ILLINOIS FED. AID PROJECT



**PARTIAL ELEVATION - BARRIER AND MOMENT SLAB**  
(Looking North)

**MINIMUM BAR LAP**  
#4 Bar = 2'-5"  
#5 Bar = 3'-0"

- NOTES**
1. For Section B-B, See Sheet S13.
  2. For bar details and Bill of Material, see Sheet S13.
  3. For Expansion Joint Detail, see Sheet S13.
  4. For Construction Joint Detail, see Sheet S13.



**PARTIAL PLAN - BARRIER AND MOMENT SLAB**

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

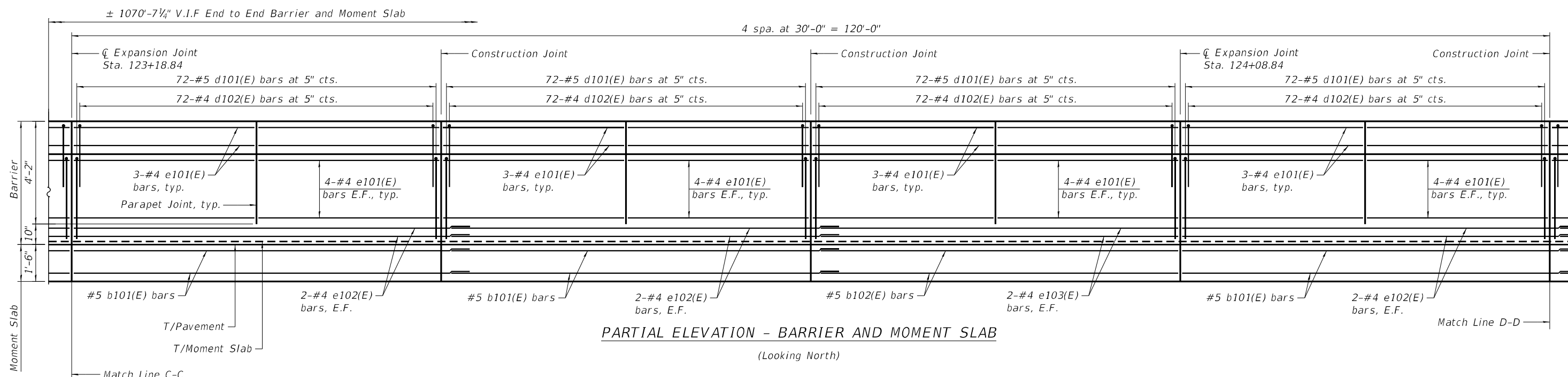
**EISENHOWER EXPRESSWAY (I-290)  
BARRIER AND MOMENT SLAB (SHEET 3 OF 9)**

SHEET 56 OF 514 SHEETS

F.A.P. RTE. 290	SECTION 2021-136-I	COUNTY COOK	TOTAL SHEETS 46	SHEET NO. 32
CONTRACT NO. 62P54				

ILLINOIS FED. AID PROJECT

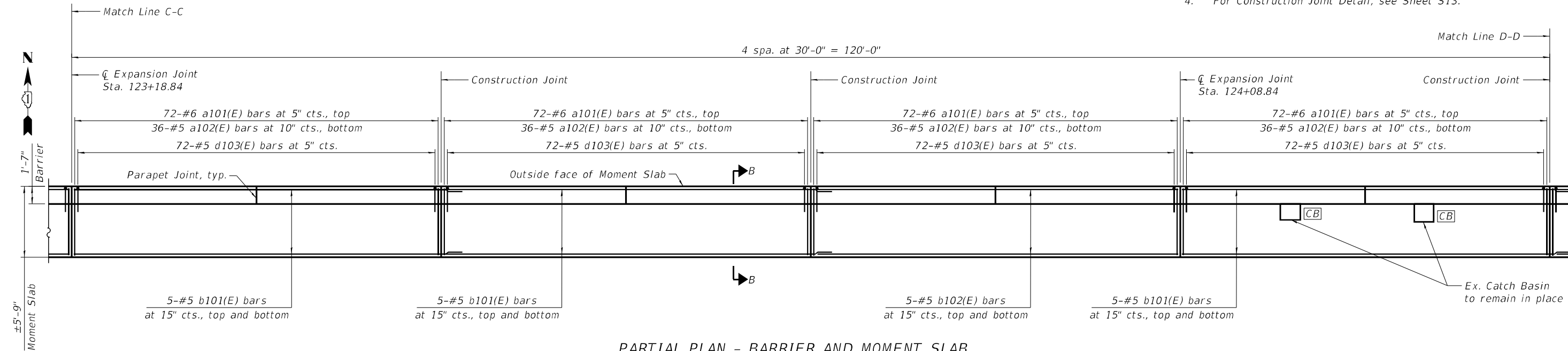




**PARTIAL ELEVATION - BARRIER AND MOMENT SLAB**  
(Looking North)

**MINIMUM BAR LAP**  
#4 Bar = 2'-5"  
#5 Bar = 3'-0"

- NOTES**
1. For Section B-B, See Sheet S13.
  2. For bar details and Bill of Material, see Sheet S13.
  3. For Expansion Joint Detail, see Sheet S13.
  4. For Construction Joint Detail, see Sheet S13.



**PARTIAL PLAN - BARRIER AND MOMENT SLAB**

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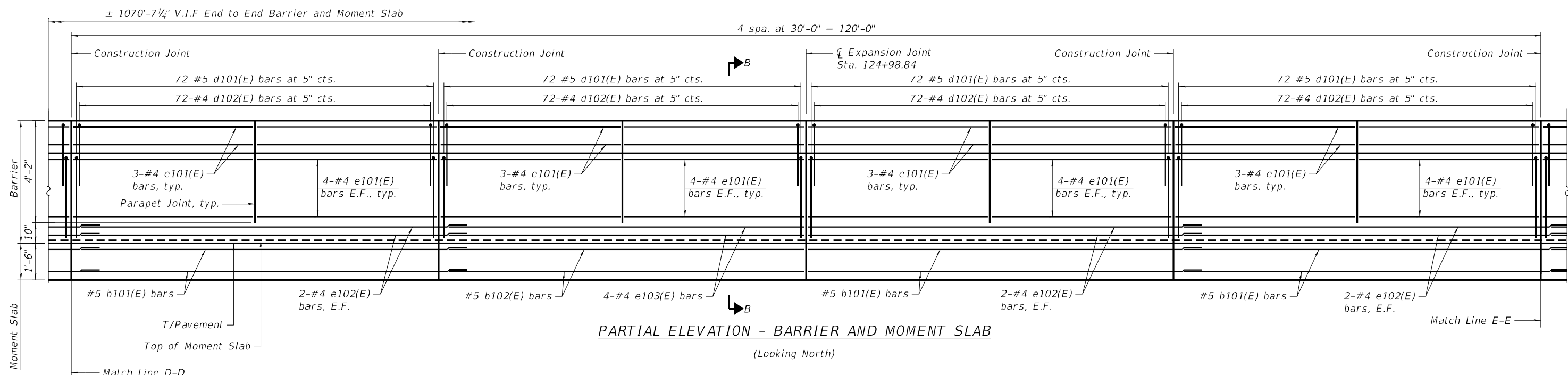
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)  
BARRIER AND MOMENT SLAB (SHEET 4 OF 9)**

SHEET 57 OF 514 SHEETS

F.A.P. RTE. 290	SECTION 2021-136-I	COUNTY COOK	TOTAL SHEETS 46	SHEET NO. 33
CONTRACT NO. 62P54				

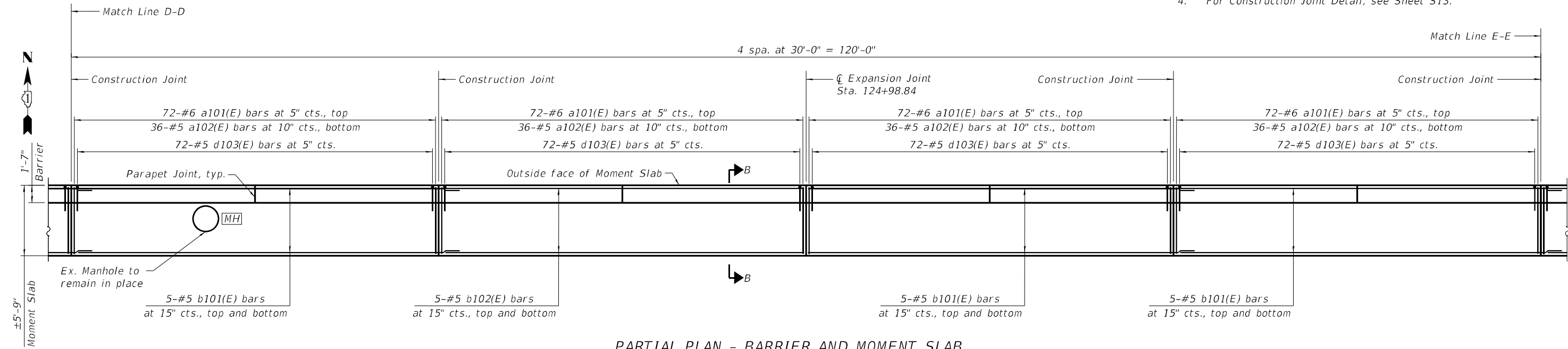
ILLINOIS FED. AID PROJECT



**PARTIAL ELEVATION - BARRIER AND MOMENT SLAB**  
(Looking North)

**MINIMUM BAR LAP**  
#4 Bar = 2'-5"  
#5 Bar = 3'-0"

- NOTES**
1. For Section B-B, See Sheet S13.
  2. For bar details and Bill of Material, see Sheet S13.
  3. For Expansion Joint Detail, see Sheet S13.
  4. For Construction Joint Detail, see Sheet S13.



**PARTIAL PLAN - BARRIER AND MOMENT SLAB**

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

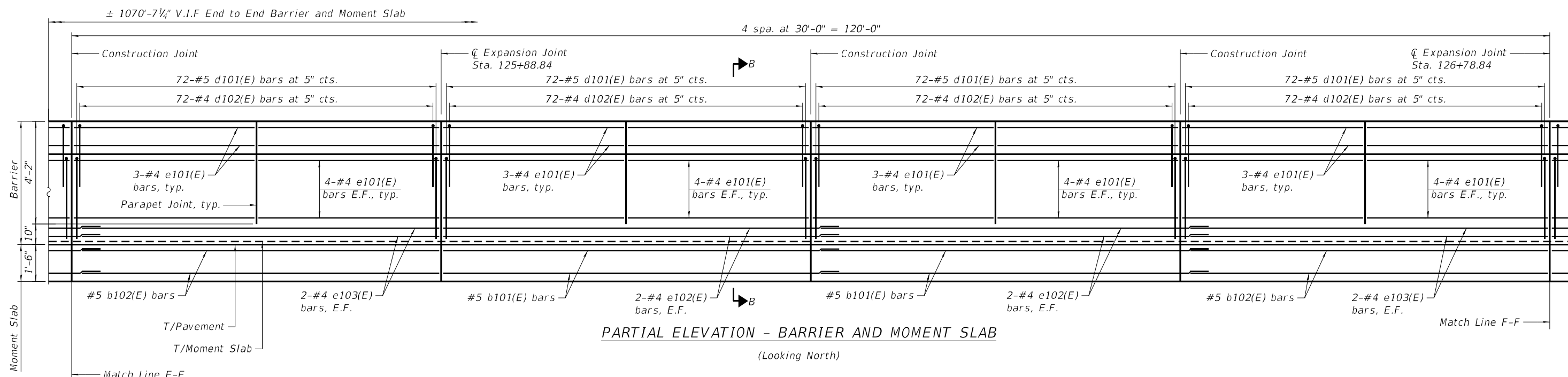
**EISENHOWER EXPRESSWAY (I-290)  
BARRIER AND MOMENT SLAB (SHEET 5 OF 9)**

SHEET 58 OF 514 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	34
CONTRACT NO. 62P54				

ILLINOIS FED. AID PROJECT

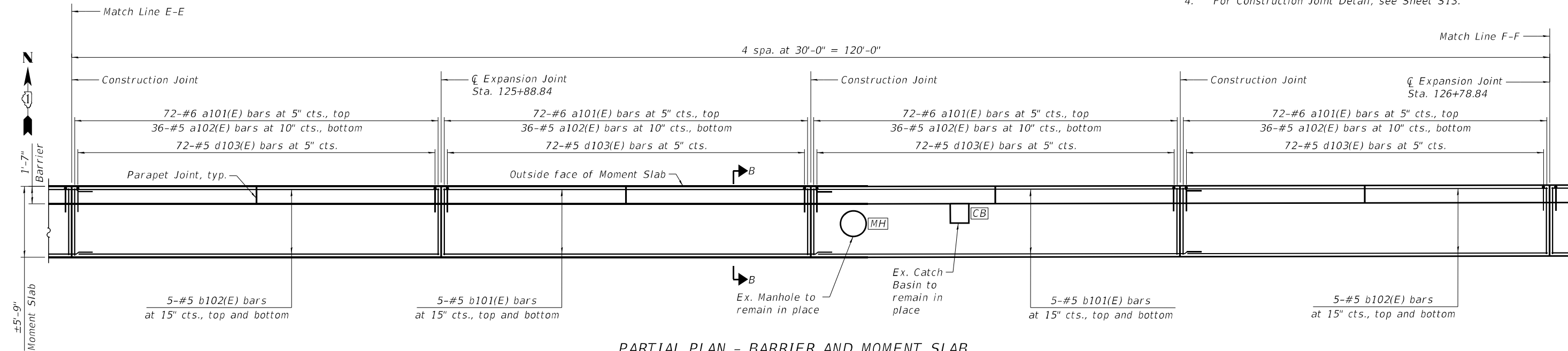
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 Orion Engineers  
 5/2/2022 7:07:42 PM



**PARTIAL ELEVATION - BARRIER AND MOMENT SLAB**  
(Looking North)

**MINIMUM BAR LAP**  
 #4 Bar = 2'-5"  
 #5 Bar = 3'-0"

- NOTES**
1. For Section B-B, See Sheet S13.
  2. For bar details and Bill of Material, see Sheet S13.
  3. For Expansion Joint Detail, see Sheet S13.
  4. For Construction Joint Detail, see Sheet S13.



**PARTIAL PLAN - BARRIER AND MOMENT SLAB**



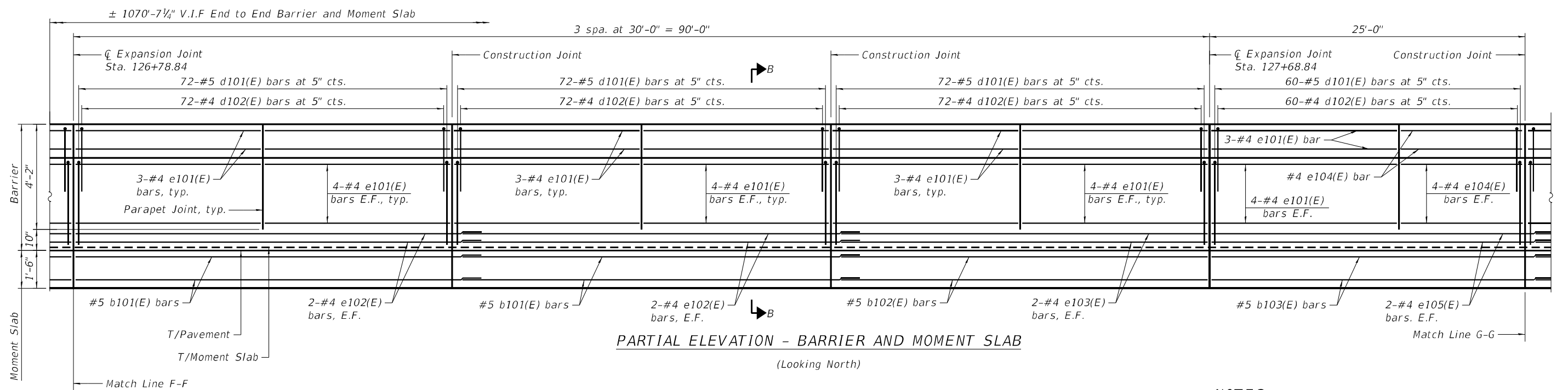
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)  
BARRIER AND MOMENT SLAB (SHEET 6 OF 9)**

SHEET 59 OF 514 SHEETS

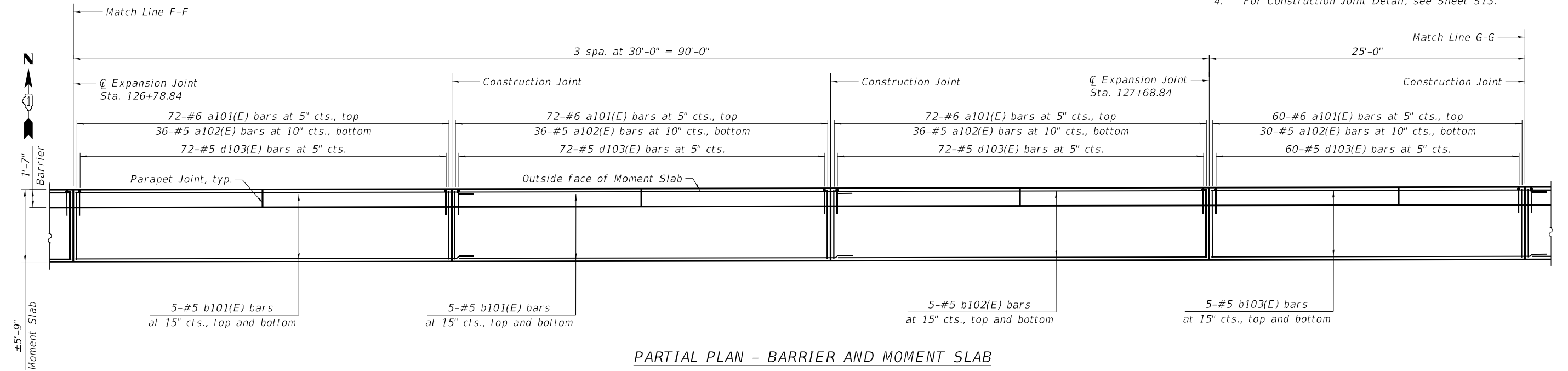
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 62P54	



**PARTIAL ELEVATION - BARRIER AND MOMENT SLAB**  
(Looking North)

**MINIMUM BAR LAP**  
#4 Bar = 2'-5"  
#5 Bar = 3'-0"

- NOTES**
1. For Section B-B, See Sheet S13.
  2. For bar details and Bill of Material, see Sheet S13.
  3. For Expansion Joint Detail, see Sheet S13.
  4. For Construction Joint Detail, see Sheet S13.



**PARTIAL PLAN - BARRIER AND MOMENT SLAB**

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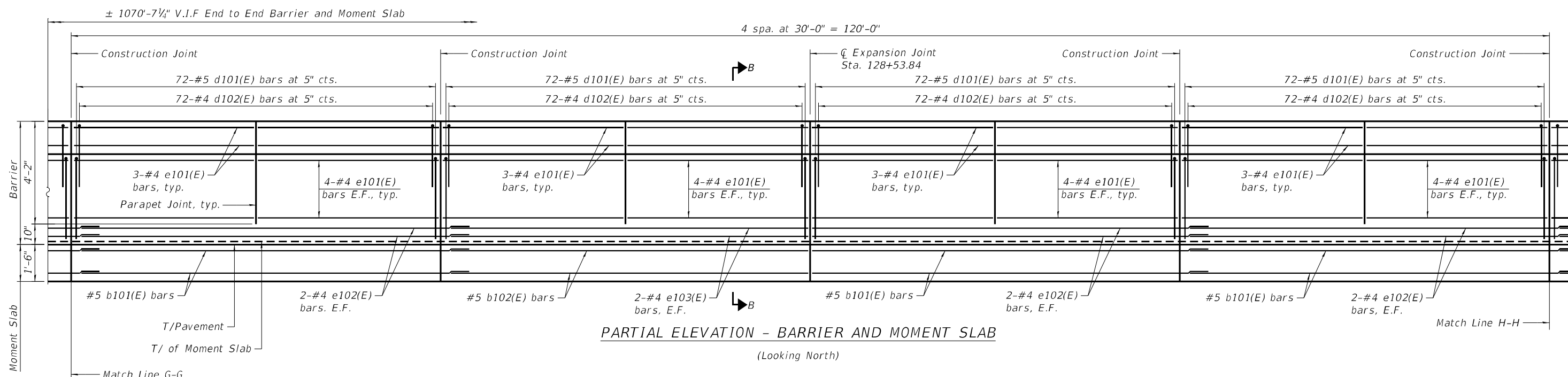
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)  
BARRIER AND MOMENT SLAB (SHEET 7 OF 9)**

SHEET 510 OF 514 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62P54				

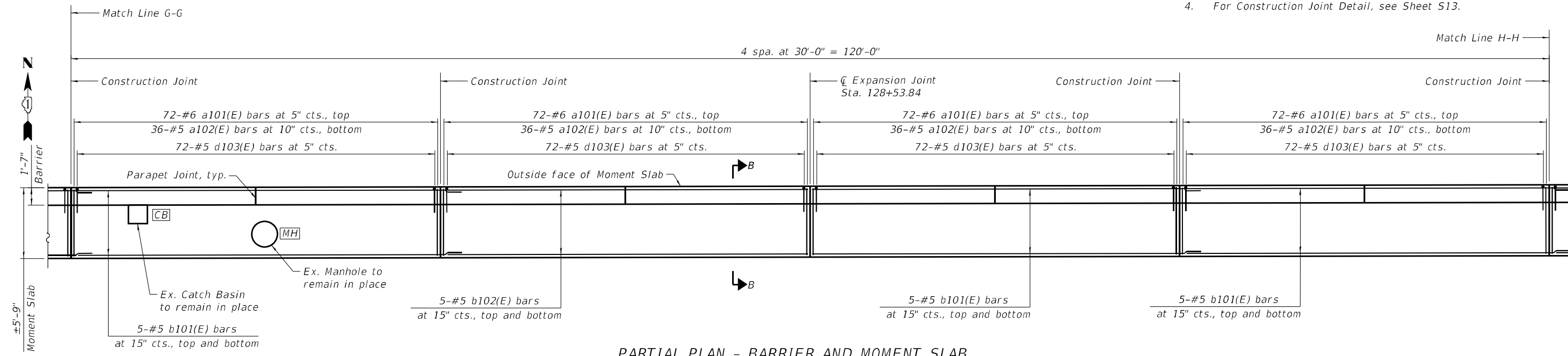
ILLINOIS FED. AID PROJECT



**PARTIAL ELEVATION - BARRIER AND MOMENT SLAB**  
(Looking North)

**MINIMUM BAR LAP**  
#4 Bar = 2'-5"  
#5 Bar = 3'-0"

- NOTES**
1. For Section B-B, See Sheet S13.
  2. For bar details and Bill of Material, see Sheet S13.
  3. For Expansion Joint Detail, see Sheet S13.
  4. For Construction Joint Detail, see Sheet S13.



**PARTIAL PLAN - BARRIER AND MOMENT SLAB**

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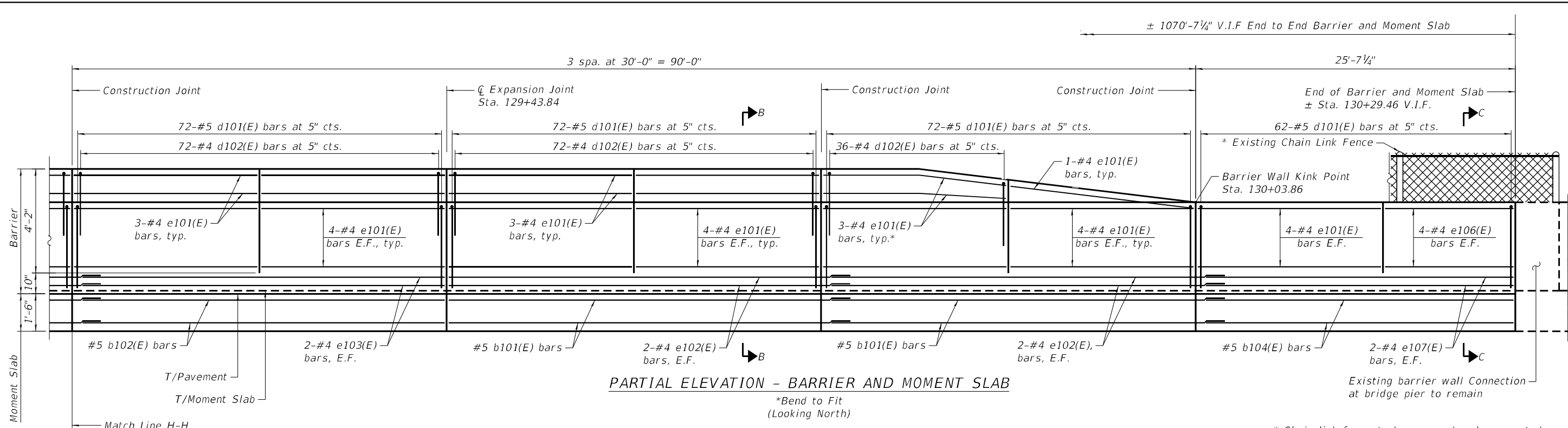
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)  
BARRIER AND MOMENT SLAB (SHEET 8 OF 9)**

SHEET 511 OF 514 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	37
CONTRACT NO. 62P54				

ILLINOIS FED. AID PROJECT



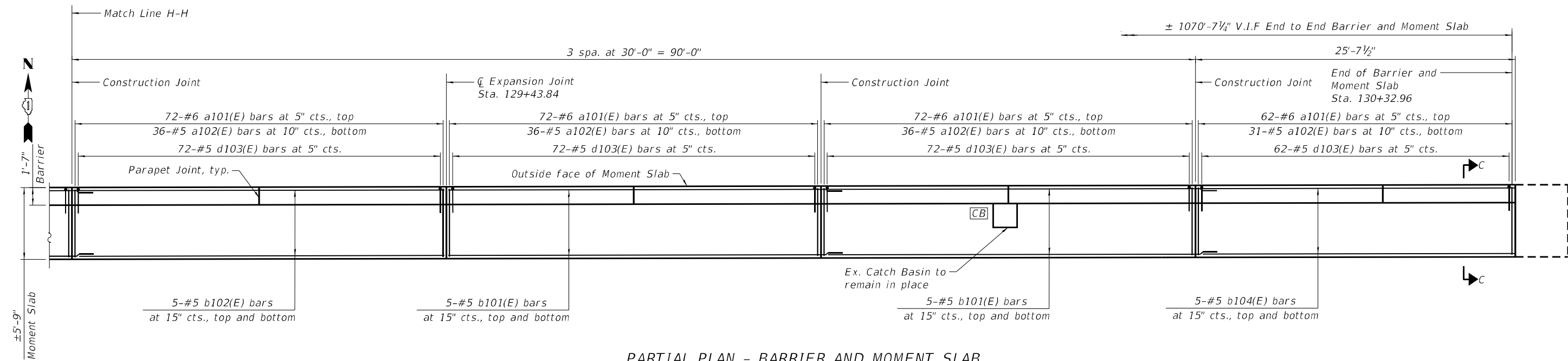
**PARTIAL ELEVATION - BARRIER AND MOMENT SLAB**

\*Bend to Fit  
(Looking North)

\* Chain link fence to be removed and re-erected, cost to be included in Concrete Superstructure.

**MINIMUM BAR LAP**

#4 Bar = 2'-5"  
#5 Bar = 3'-0"



**PARTIAL PLAN - BARRIER AND MOMENT SLAB**

**NOTES**

1. For Section B-B and Section C-C, see Sheet S13.
2. For bar details and Bill of Material, see Sheet S13.
3. For Expansion Joint Detail, see Sheet S13.
4. For Construction Joint Detail, see Sheet S13.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)  
BARRIER AND MOMENT SLAB (SHEET 9 OF 9)**

SHEET S12 OF S14 SHEETS

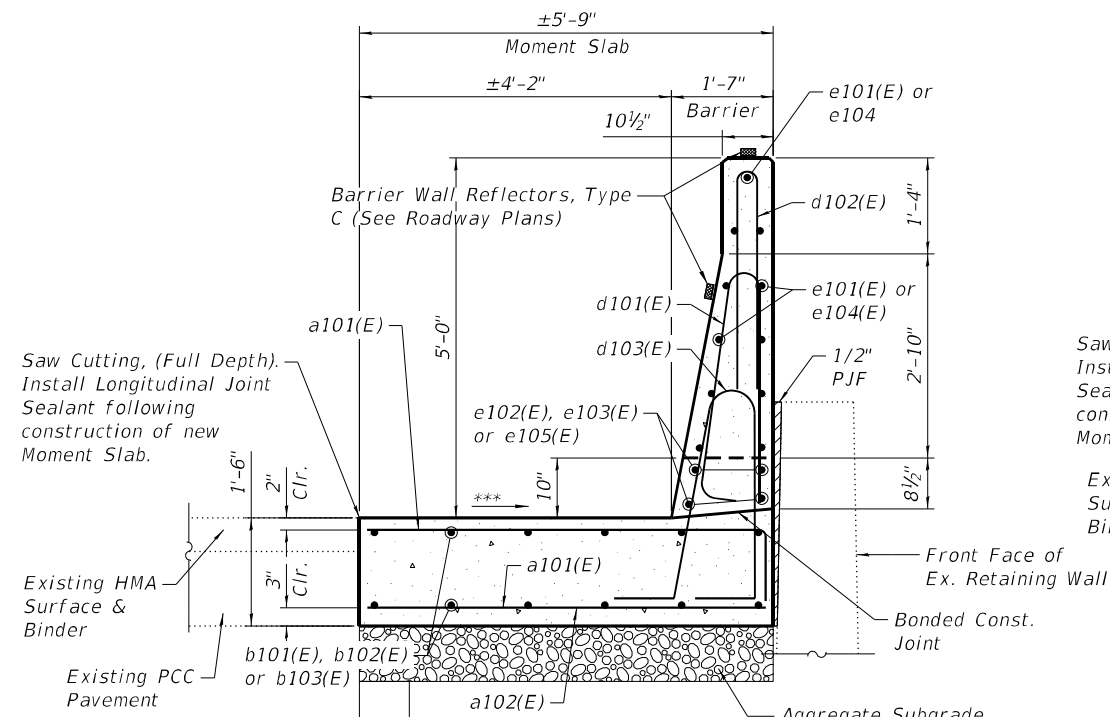
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CONTRACT NO. 62P54				

ILLINOIS FED. AID PROJECT

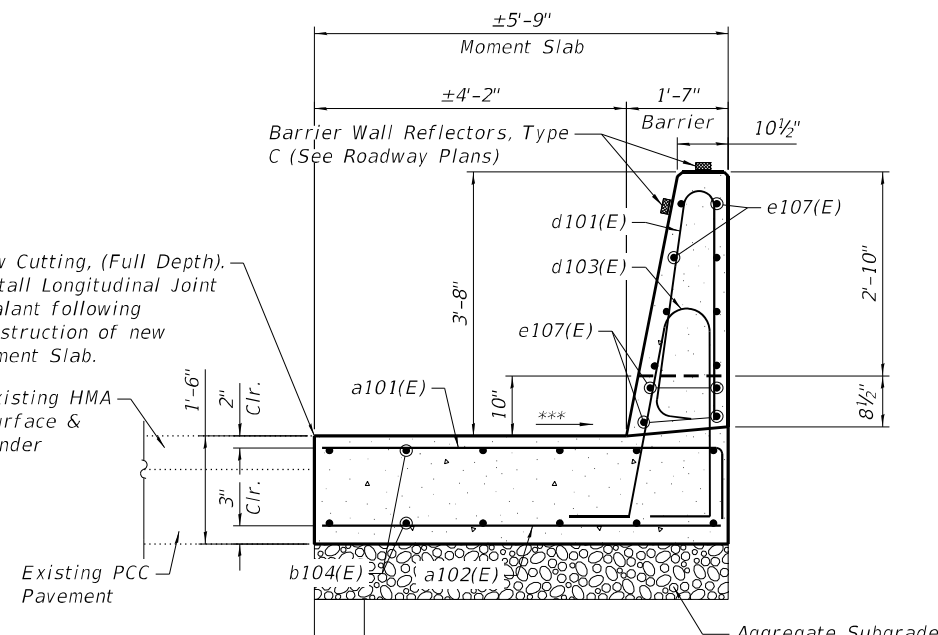
\*\*\* Cross-slope to match existing.

**BILL OF MATERIAL**

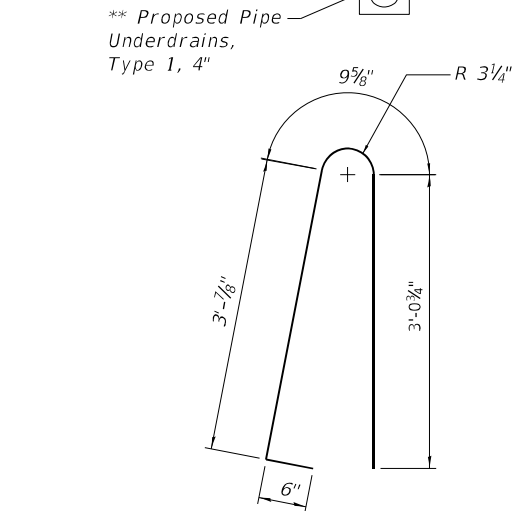
Bar	No.	Size	Length	Shape
a101(E)	2570	#6	6'-5"	————
a102(E)	1285	#5	5'-5"	————
b101(E)	230	#5	33'-0"	————
b102(E)	110	#5	29'-8"	————
b103(E)	10	#5	28'-0"	————
b104(E)	10	#5	25'-4"	————
d101(E)	2570	#5	7'-5"	⌒
d102(E)	2472	#4	6'-5"	⌒
d103(E)	2570	#5	8'-11"	⌒
e101(E)	765	#4	14'-8"	————
e102(E)	96	#4	32'-6"	————
e103(E)	44	#4	29'-8"	————
e104(E)	11	#4	9'-8"	————
e105(E)	4	#4	27'-8"	————
e106(E)	8	#4	10'-3"	————
e107(E)	4	#4	25'-4"	————
Protective Coat		Sq. Yd.	1,219	
Concrete Removal		Cu. Yd.	476.3	
Concrete Superstructure		Cu. Yd.	482.3	
Reinforcement Bars, Epoxy Coated		Pound	109,010	
Catch Basins To Be Adjusted With New Type 4 Frame And Grate		Each	7	
Manholes To Be Adjusted With New Type 1 Frame, Closed Lid		Each	5	
Pipe Underdrains, Type 1, 4"		Foot	1,071	



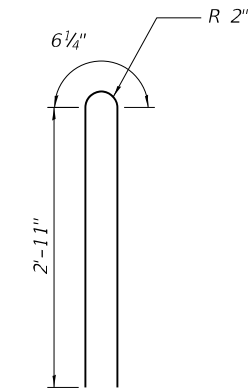
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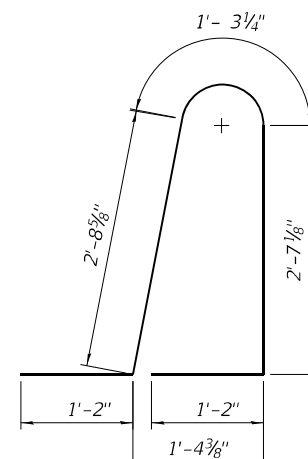
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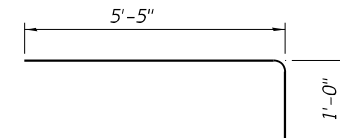
**BAR d101(E)**



**BAR d102(E)**

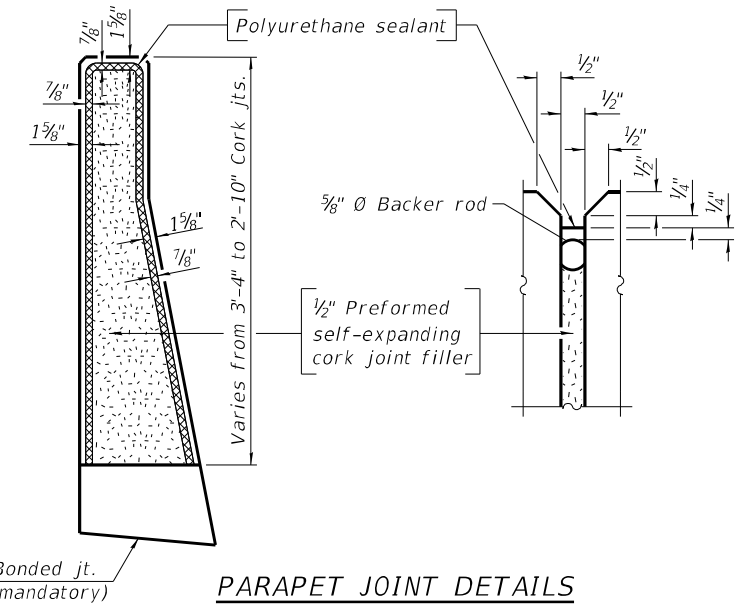


**BAR d103(E)**

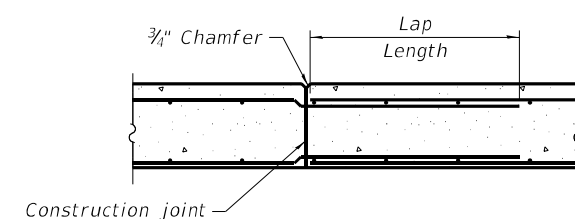


**BAR a101(E)**

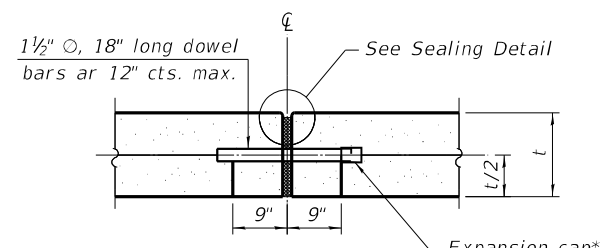
\*\* Removal of the existing pipe underdrain and connection of proposed underdrain to existing shall not be paid for separately and shall be included in Pipe Underdrains, Type 1, 4"



**PARAPET JOINT DETAILS**



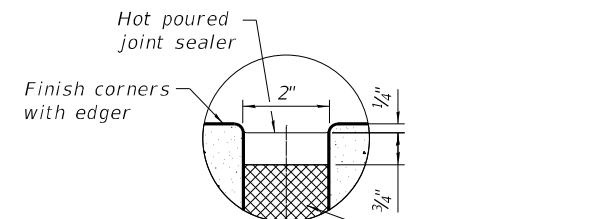
**CONSTRUCTION JOINT**



**EXPANSION JOINT**

Expansion joint and dowel bars included in the cost of Concrete Superstructure

\* Expansion caps shall be installed on the exposed end of each dowel bar once the header has been removed and joint filler material has been installed



**SEALER DETAIL**

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EISENHOWER EXPRESSWAY (I-290)  
BARRIER AND MOMENT SLAB DETAILS**

SHEET 513 OF 514 SHEETS

F.A.P. RTE. 290	SECTION 2021-136-I	COUNTY COOK	TOTAL SHEETS 46	SHEET NO. 39
CONTRACT NO. 62P54				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Page 1 of 1

ROUTE I-290 EB DESCRIPTION IKE Wall Repair LOGGED BY EH

SECTION Near S Laramie Ave LOCATION SEC. TWP. RNG. Latitude -41.871236, Longitude -87.755941

COUNTY Cook DRILLING RIG D-50 HSA HAMMER TYPE Auto HAMMER EFF (%) 98

Table with columns for DEPTH (ft), BULGE (ft/6"), UCS (tsf), and M-O-I-S-T (%). Includes Surface Water Elev., Stream Bed Elev., and Groundwater Elev. data.

Main soil log table with columns for DEPTH (ft), BULGE (ft/6"), UCS (tsf), and M-O-I-S-T (%). Describes soil layers like '12 inches of Asphalt', 'Very Stiff to Hard Gray, Moist SILTY CLAY, trace gravel (CL/ML)', etc.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer). The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

ROUTE I-290 EB DESCRIPTION IKE Wall Repair LOGGED BY EH

SECTION Near S Laramie Ave LOCATION SEC. TWP. RNG. Latitude -41.871231, Longitude -87.756211

COUNTY Cook DRILLING RIG D-50 HSA HAMMER TYPE Auto HAMMER EFF (%) 98

Table with columns for DEPTH (ft), BULGE (ft/6"), UCS (tsf), and M-O-I-S-T (%). Includes Surface Water Elev., Stream Bed Elev., and Groundwater Elev. data.

Main soil log table with columns for DEPTH (ft), BULGE (ft/6"), UCS (tsf), and M-O-I-S-T (%). Describes soil layers like '12 inches of Asphalt', 'Very Stiff to Hard Gray, Moist SILTY CLAY, trace gravel (CL/ML)', etc.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer). The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)

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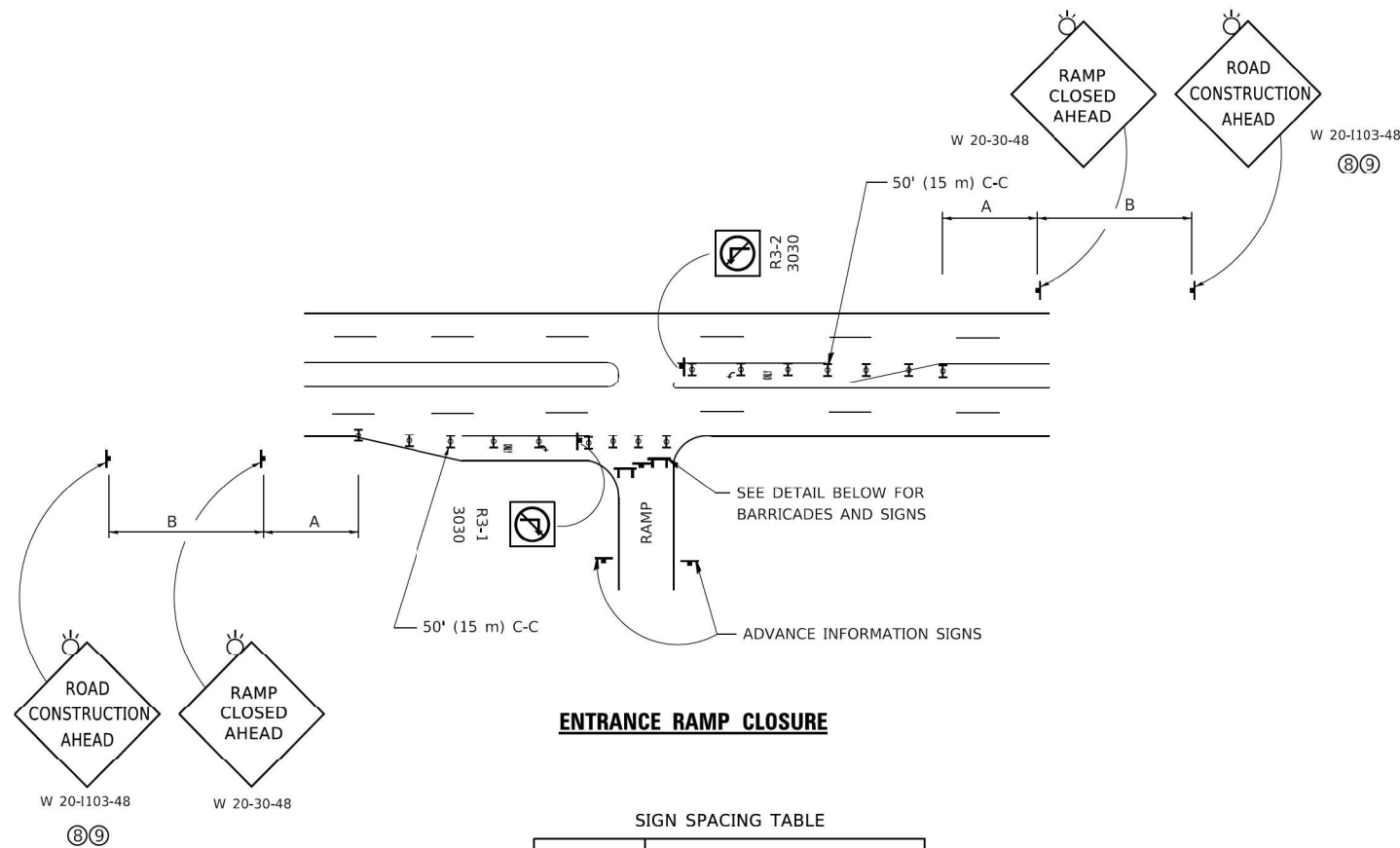
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EISENHOWER EXPRESSWAY (I-290) SOIL BORING LOGS

SHEET S14 OF S14 SHEETS

Summary table with columns for F.A.P. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., and CONTRACT NO.



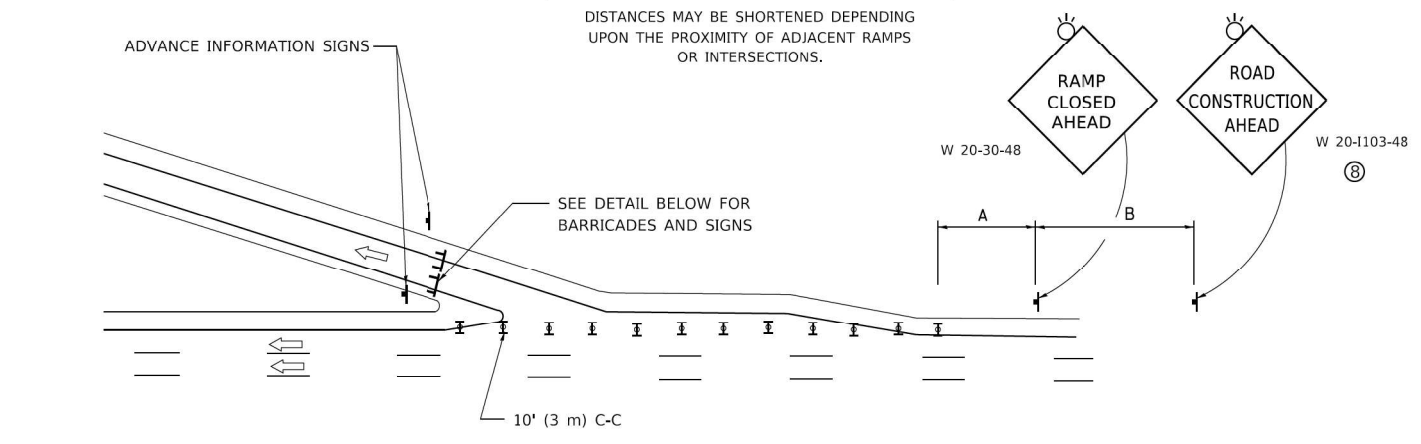


**ENTRANCE RAMP CLOSURE**

SIGN SPACING TABLE

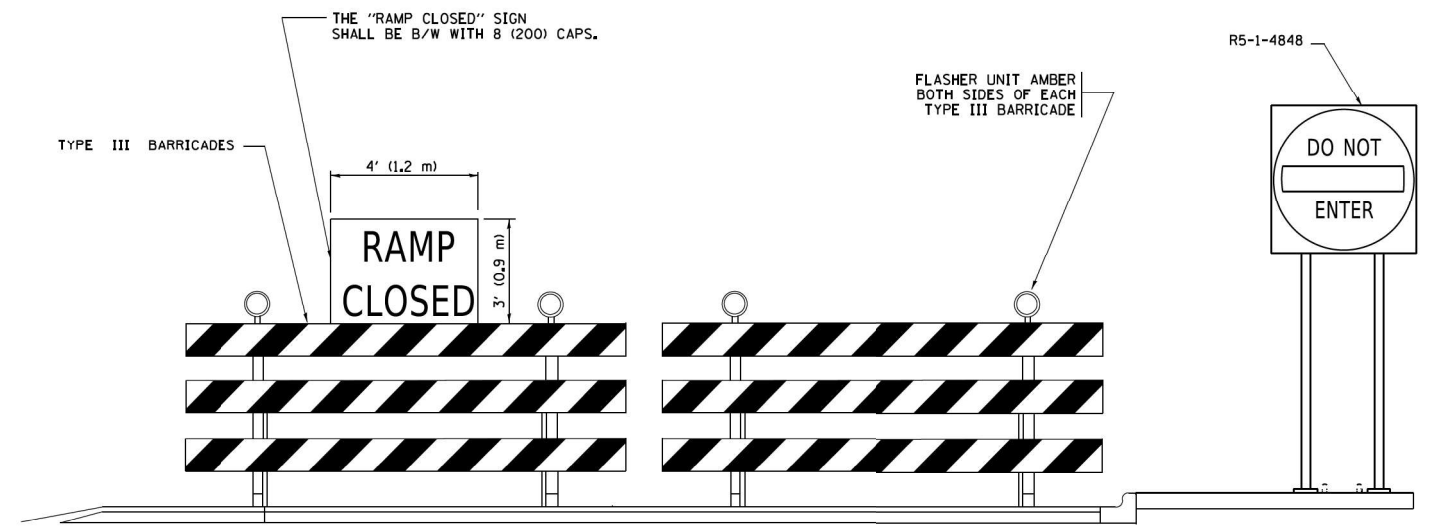
FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

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

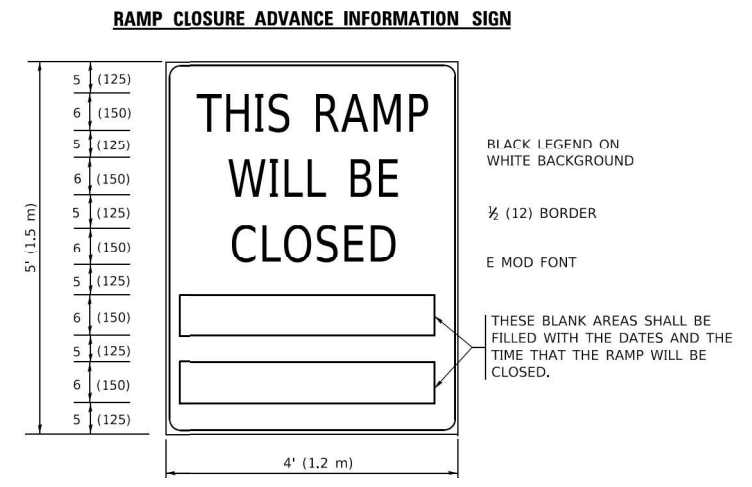
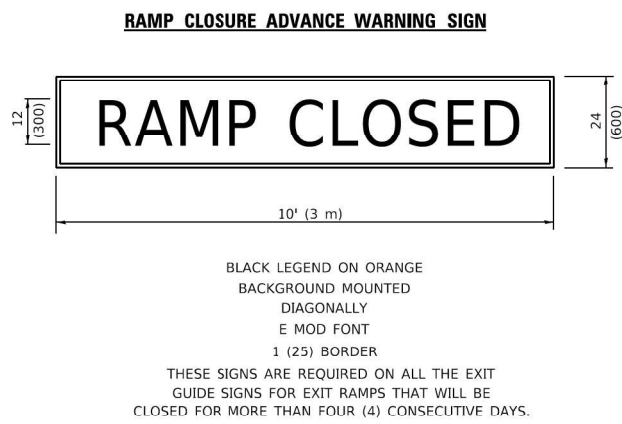


**EXIT RAMP CLOSURE**

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



**DETAIL FOR REQUIRED BARRICADES & SIGNS**



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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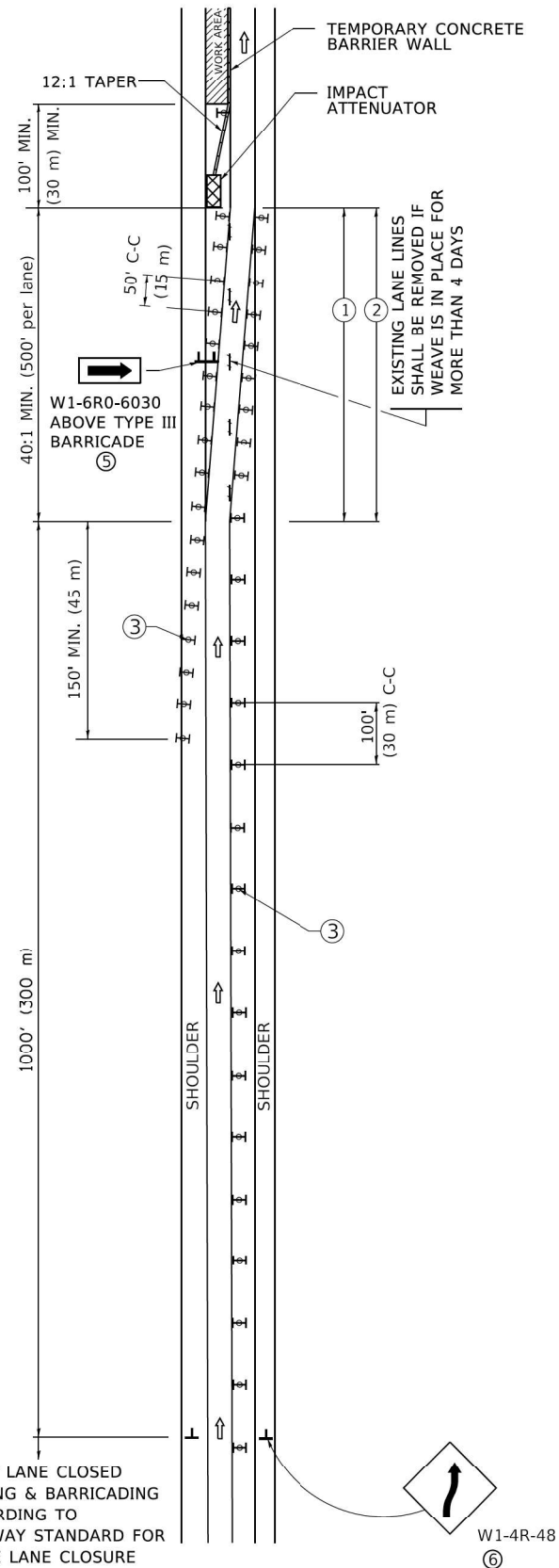
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP  
CLOSURE DETAILS**

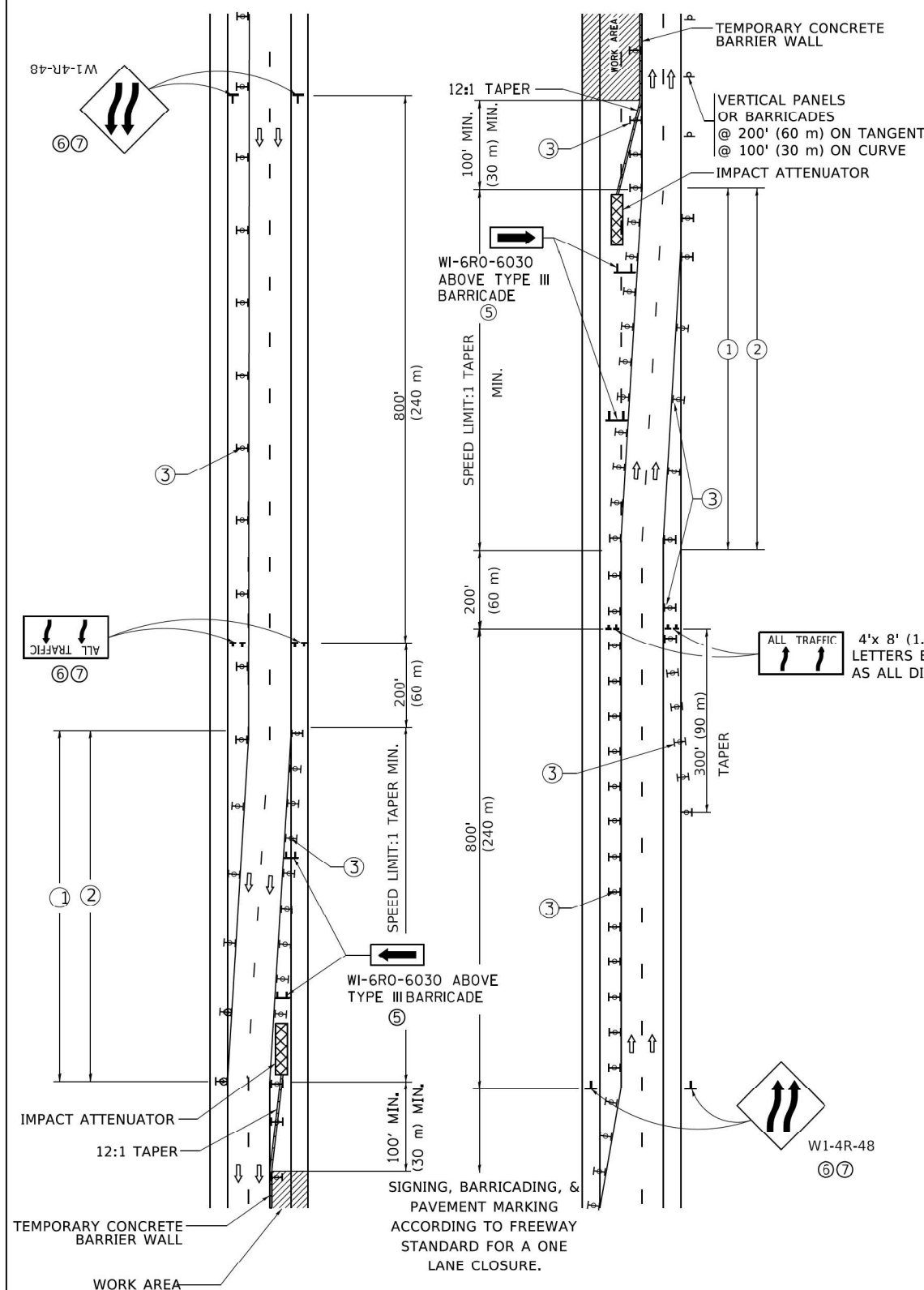
SCALE: N.T.S SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	41
TC-08			CONTRACT NO. 62P54	
		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 4 DAYS 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.
- 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.

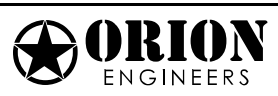
4'x 8' (1.2 m x 2.4 m); 1 (25) BORDER; 10 (250) CAPITAL LETTERS BACKGROUND SHEETING SHALL BE THE SAME AS ALL DIAMOND SHAPED CONSTRUCTION SIGNS.

### SYMBOLS

- ↑ DIRECTION OF TRAFFIC
- ▨ WORK AREA
- ┌ SIGN ON PORTABLE OR PERMANENT SUPPORT
- ⊥ TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- ▬ TEMPORARY CONCRETE BARRIER WALL
- ⊗ IMPACT ATTENUATOR
- ◊ W1-4R-48
- ◊ W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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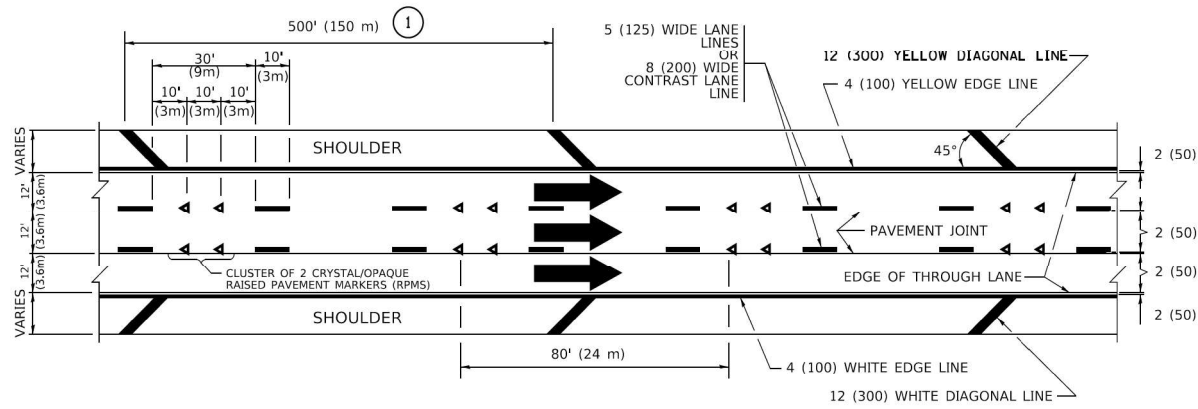
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	DATE - 01/21/2022	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR  
FREEWAY SINGLE & MULTI-LANE WEAVE

SCALE: N.T.S SHEET 1 OF 1 SHEETS STA. TO STA.

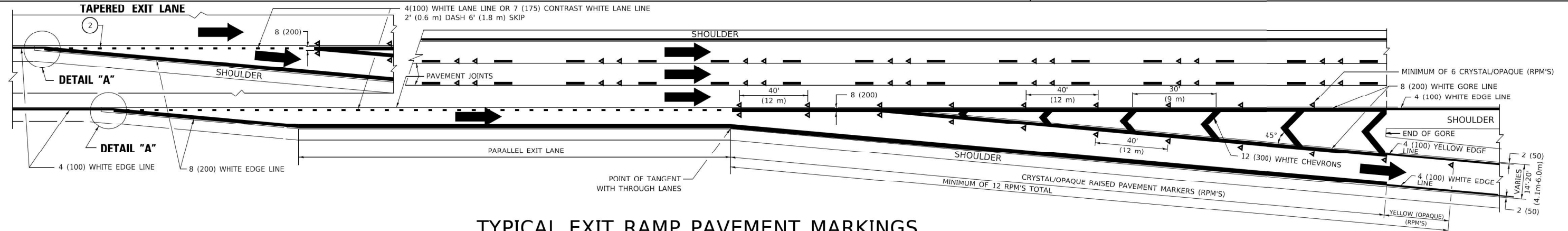
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TC-09		CONTRACT NO. 62P54		
ILLINOIS FED. AID PROJECT				



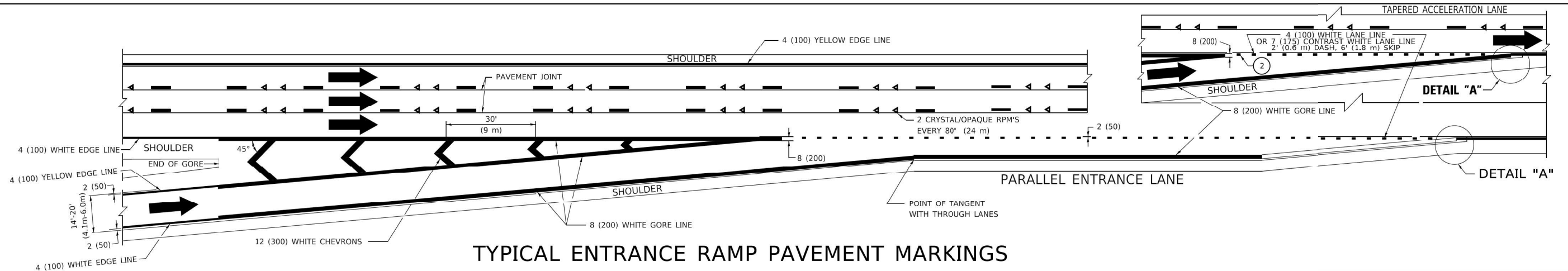
TYPICAL EDGE LINES & LANE LINES

**PAVEMENT MARKING MATERIALS**

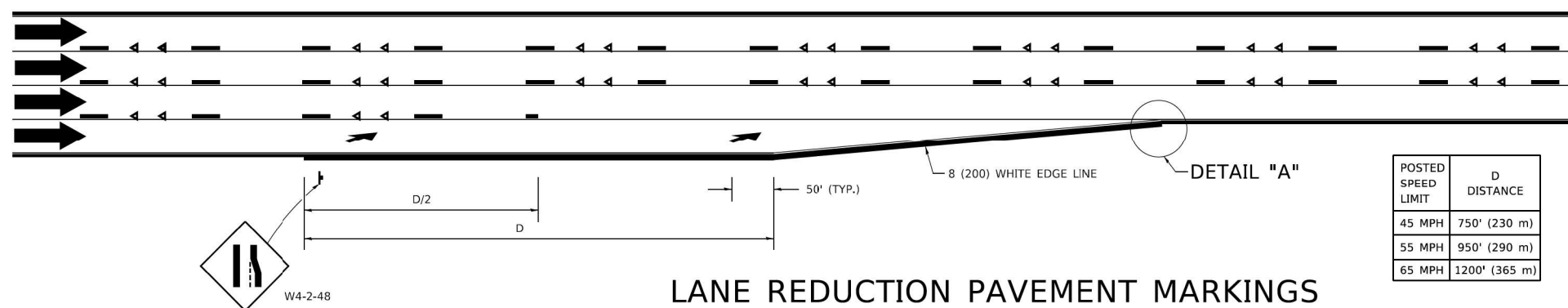
1. THERMOPLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON HMA PAVEMENTS.
2. POLYUREA OR MODIFIED URETHANE PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON PCC PAVEMENTS.
3. PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, INLAID OR GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENTS.
4. CONTRAST PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON PCC PAVEMENT.



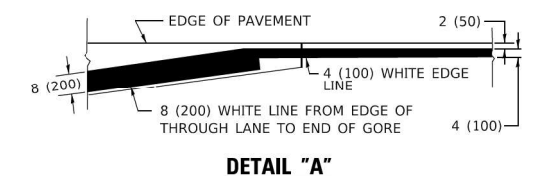
TYPICAL EXIT RAMP PAVEMENT MARKINGS



TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



LANE REDUCTION PAVEMENT MARKINGS



**NOTES:**

1. THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
2. 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)

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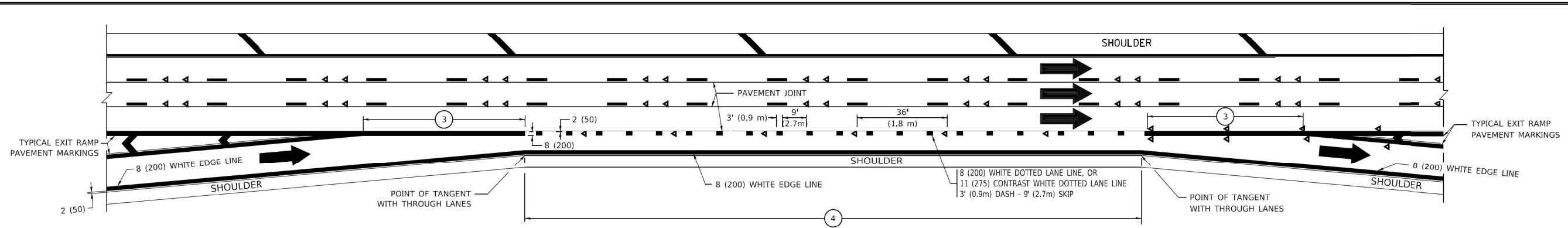
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

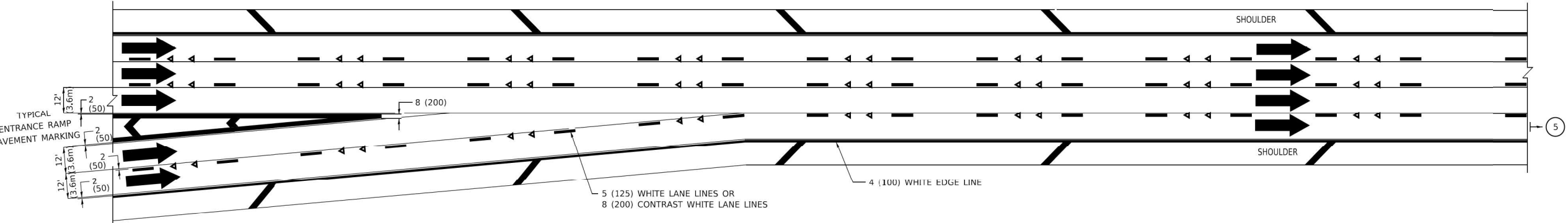
MULTI-LANE FREEWAY  
PAVEMENT MARKING DETAILS

SCALE: N.T.S SHEET 1 OF 2 SHEETS STA. TO STA.

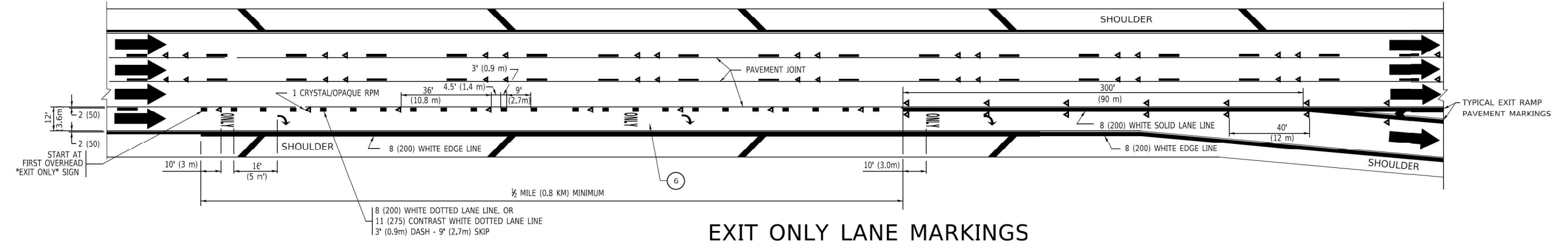
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TC-12		CONTRACT NO. 62P54		
ILLINOIS FED. AID PROJECT				



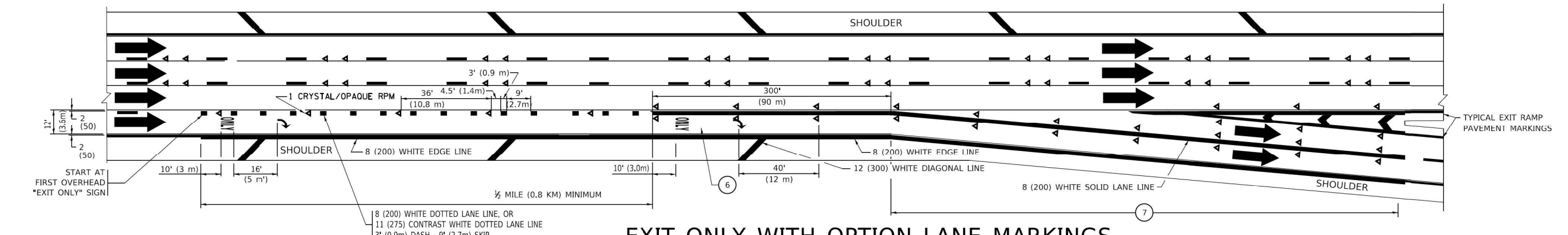
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

- NOTES:**
- 3 OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
  - 4 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
  - 5 FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
  - 6 ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED..
  - 7 CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

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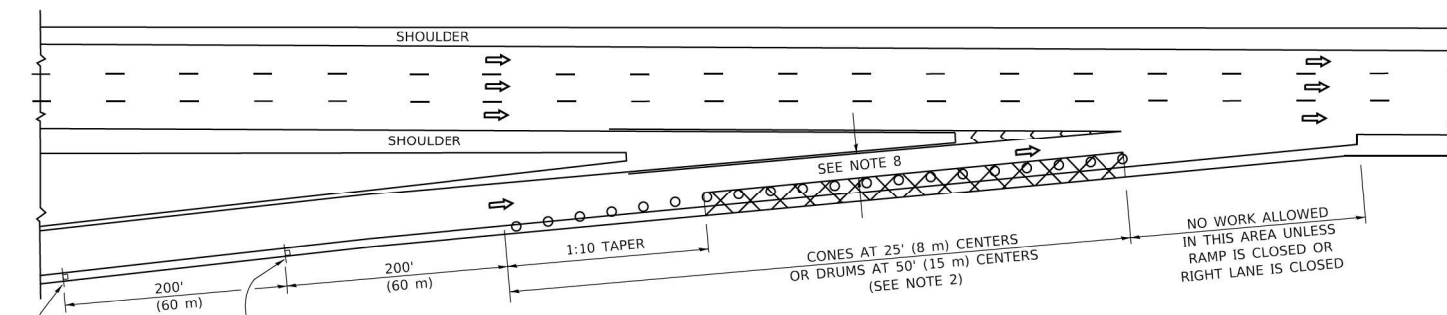
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MULTI-LANE FREEWAY  
PAVEMENT MARKING DETAILS

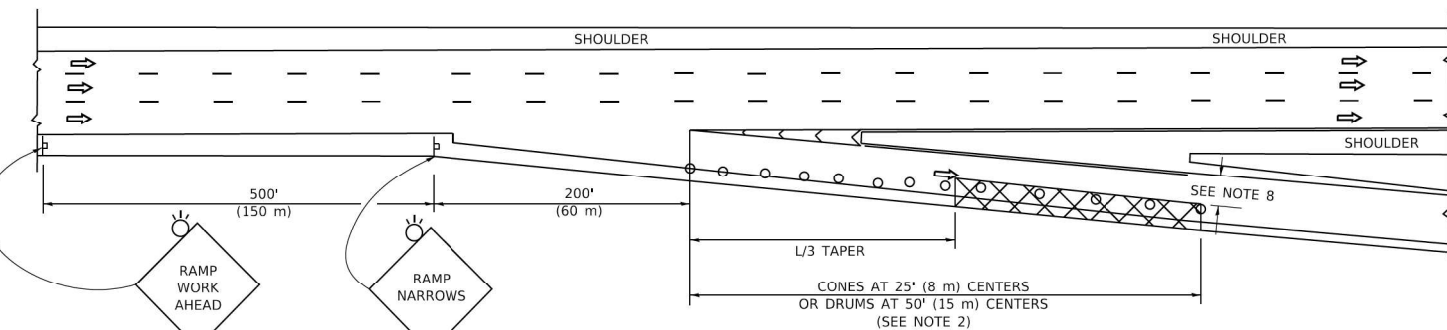
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F.A.J RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	44
TC-12		CONTRACT NO. 62P54		
ILLINOIS FED. AID PROJECT				

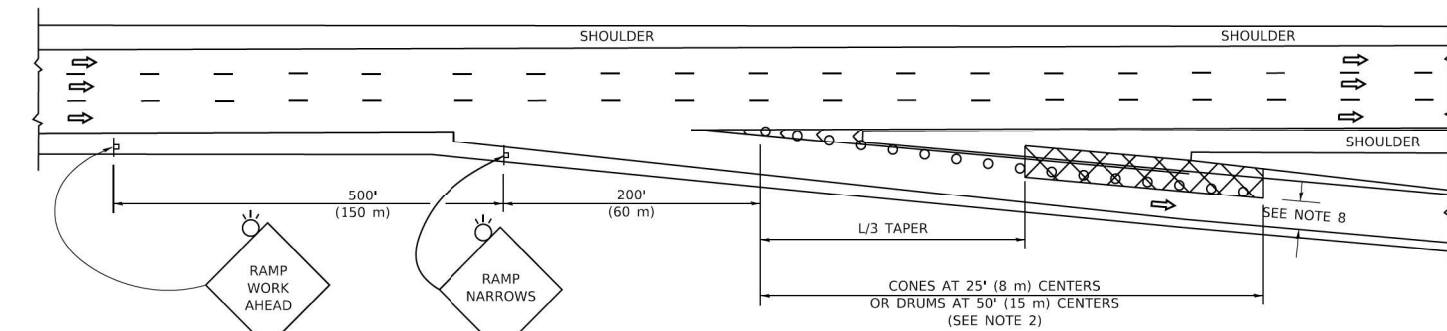
**PARTIAL RAMP CLOSURE DETAILS**



**TYPICAL ENTRANCE RAMP**



**TYPICAL EXIT RAMP**



**TYPICAL EXIT RAMP**

**SYMBOLS**

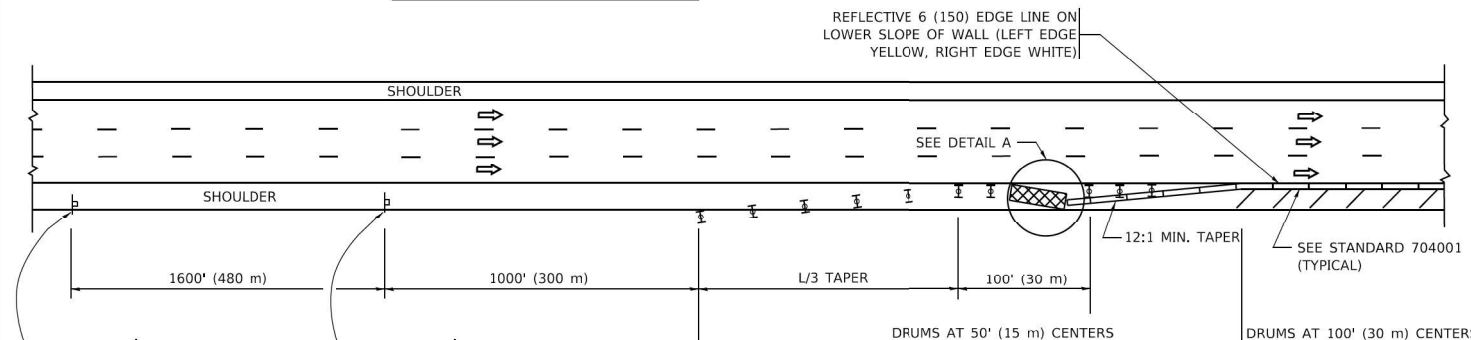
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

**GENERAL NOTES:**

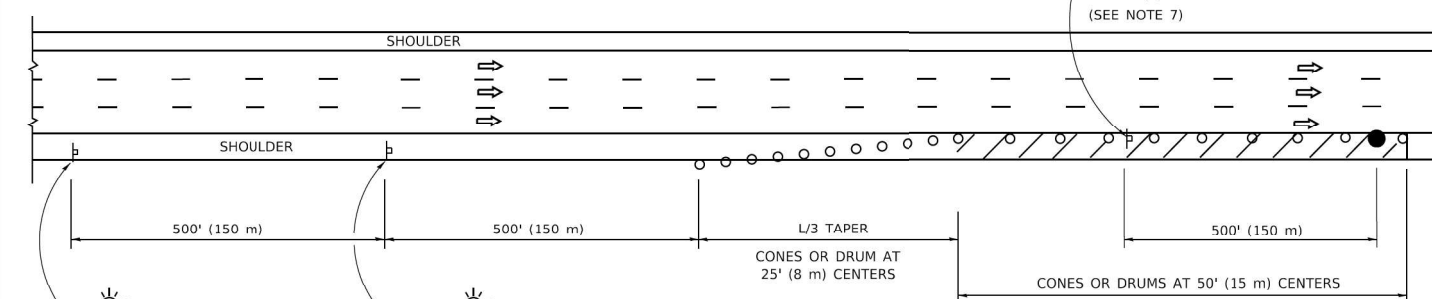
1. THE "L" DISTANCE EQUALS:  

<b>SPEED LIMIT</b>	<b>FORMULAS</b>
45 mph (80 km/h)	METRIC ENGLISH
OR GREATER:	$L=0.65(W)(S)$ $L=(W)(S)$
	W = WIDTH OF OFFSET IN FEET (METERS)
	S = NORMAL POSTED SPEED MPH (KM/H)
2. 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.
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**



**TEMPORARY 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)

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.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
  - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
  - b. 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.

8. 12' MIN. WIDTH TANGENT SECTION  
16' MIN. WIDTH CURVE SECTION.
9. TEMPORARY SHOULDER AND NON-SYSTEM INTERCHANGE PARTIAL RAMP CLOSURES ARE ALLOWED WEEKDAYS BETWEEN 9:00 A.M. AND 3:00 P.M. AND BETWEEN 7:00 P.M. AND 5:00 A.M. OR AS APPROVED BY THE EXPRESSWAY TRAFFIC OPERATIONS ENGINEER. PERMANENT SHOULDER AND PARTIAL RAMP CLOSURES WILL ONLY BE PERMITTED IF CALLED FOR IN THE PLANS OR AS APPROVED BY THE EXPRESSWAY OPERATIONS ENGINEER.

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

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

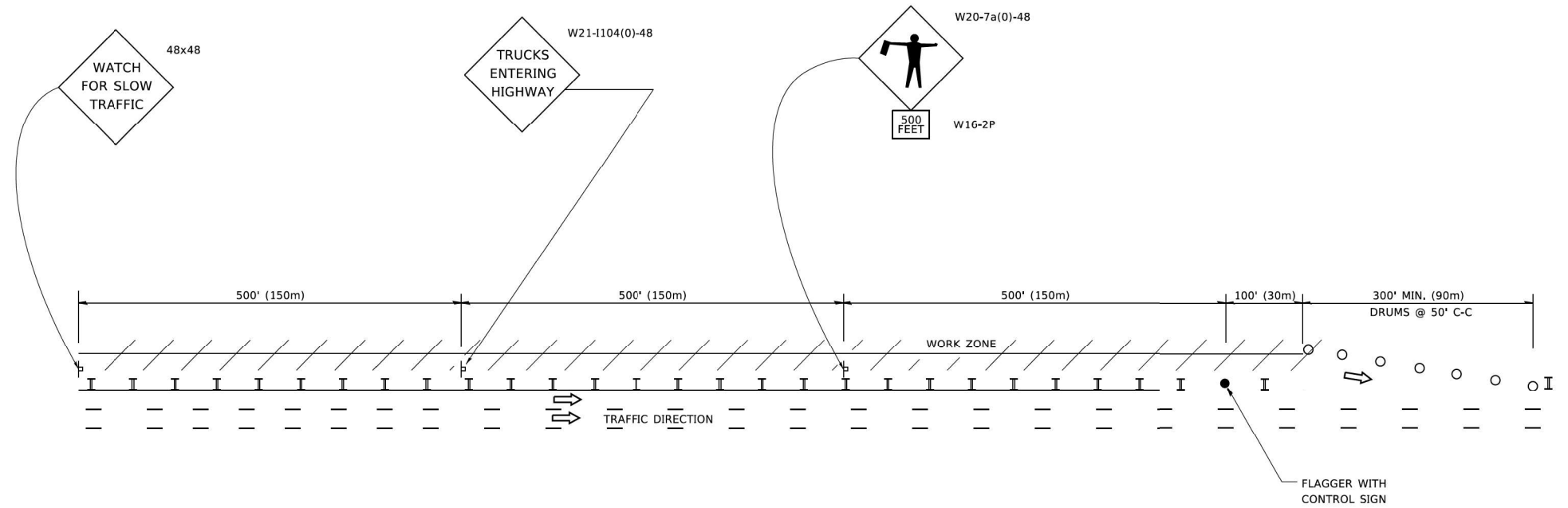
**TRAFFIC CONTROL DETAILS FOR FREEWAY  
 SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES**

SCALE: N.T.S SHEET 1 OF 1 SHEETS STA. TO STA.

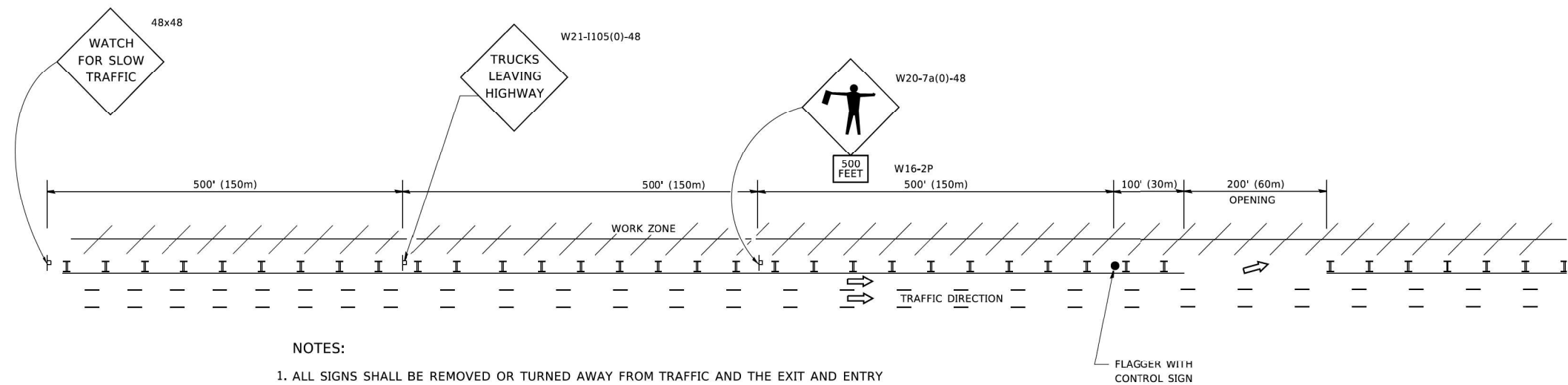
F.A.J RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	45
TC-17			CONTRACT NO. 62P54	
ILLINOIS FED. AID PROJECT				

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

**WORK ZONE EXIT OPENING**



**WORK ZONE ENTRY OPENING**



**NOTES:**

1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMPS.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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PLOT DATE = 3/23/2022	CHECKED - ADW	REVISED -
	DATE - 01/21/2022	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FREEWAY /EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS  
AT WORK ZONE OPENINGS ON FREEWAYS /EXPRESSWAY

SCALE: N.T.S SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	2021-136-I	COOK	46	46
<b>TC-18</b>			CONTRACT NO. 62P54	
ILLINOIS FED. AID PROJECT				