

036

03-08-2019 LETTING ITEM 036

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

FAI ROUTE 80 (I-80)
WILL CO LINE TO US 30
SECTION 2018-132-1
PROJECT HSIP-4BB7(623)
MILLED RUMBLE STRIPS
WILL COUNTY

C-91-265-19

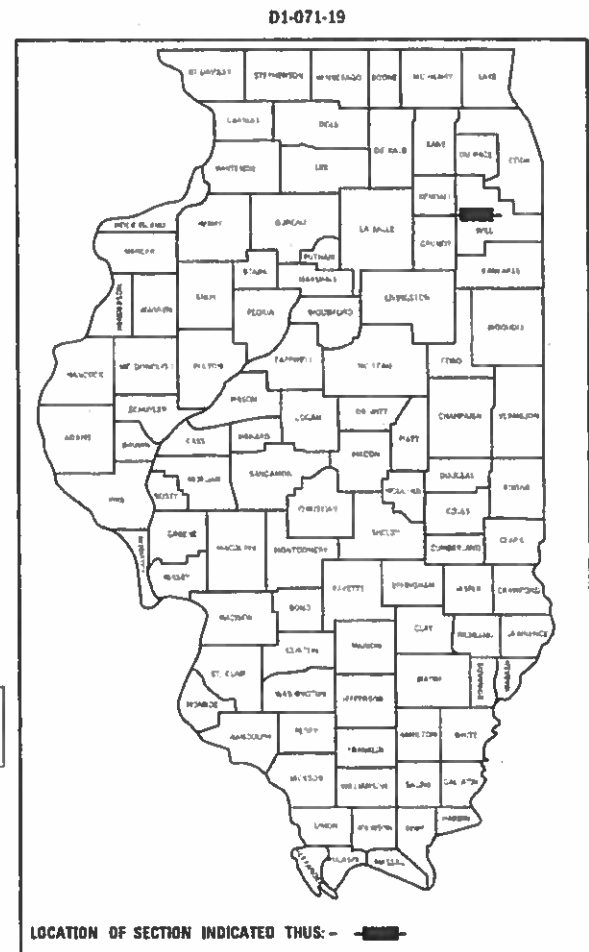
FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

IMPROVEMENTS ARE LOCATED IN THE VILLAGE OF SHOREWOOD,
THE VILLAGE OF ROCKDALE, AND THE CITY OF JOLIET

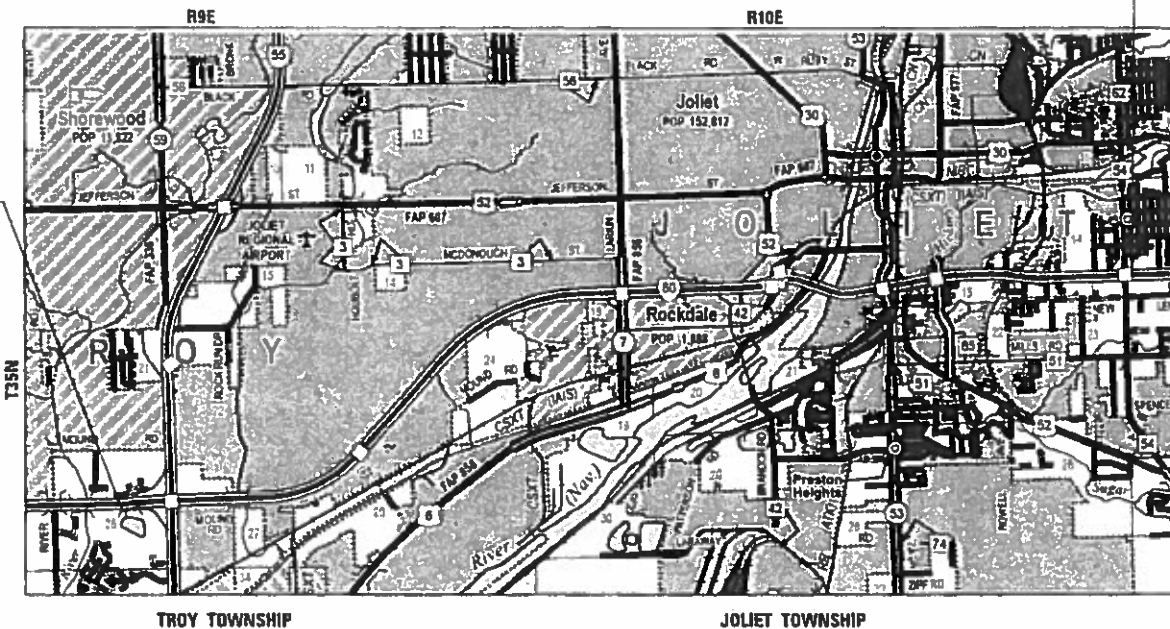
TRAFFIC DATA - I-80
FUNCTIONAL CLASSIFICATION: INTERSTATE
2017 ADT = 60,500 - 85,400
POSTED SPEED = 45-65 MPH

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2018-132-1	WILL	29	1
		ILLINOIS	CONTRACT NO. 62H55	

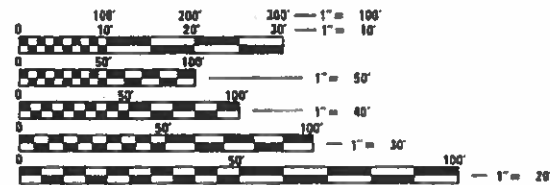


END IMPROVEMENT
832 + 76

BEGIN IMPROVEMENT
324 + 89



LOCATION MAP
NOT TO SCALE



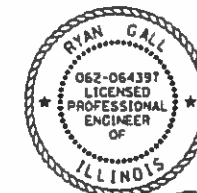
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-992-0123
OR 811

PROJECT ENGINEER: DANIEL WILGREEN, PE (847) 705-4240
PROJECT MANAGER: FAWAD AQUEEL, PE (847) 705-4247

CONTRACT NO. 62H55

GROSS LENGTH = 50,787 FT. = 9.619 MILE
NET LENGTH = 50,787 FT. = 9.619 MILE



Signed: *[Signature]*
Date: 12/10/2018
License Expires: 11/30/2019

EFK Moen
Civil Engineering Design

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED December 10, 2018
Anthony J. Quigley REGIONAL ENGINEER
Feb 19 2019
[Signature] ENGINEER OF DESIGN AND ENVIRONMENT
Feb 19 2019
[Signature] DIRECTOR OF CONTRACTS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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2	INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES
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25	TC-18 FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS
26-29	BM-21 REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL

HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
642001-02	SHOULDER RUMBLE STRIPS, 16 IN.
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP FOR SPEEDS >= 45 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
782006	GUARDRAIL & BARRIER WALL REFLECTOR MOUNTING DETAILS

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 NOTIFICATION IS REQUIRED.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGES OF SHOREWOOD, ROCKDALE, AND THE CITY OF JOLIET.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE RESIDENT ENGINEER SHALL CONTACT THE EXPRESSWAY FIELD ENGINEER AT 847-705-4155 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD, FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES 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 EXERCISE THE UTMOST PRECAUTIONS WHEN USING ARTIFICIAL LIGHTING DURING NIGHT OPERATIONS TO PREVENT ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORSEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY, OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL RESPOND TO THE ENGINEER'S REQUEST WITHIN THIRTY (30) MINUTES FROM THE TIME OF THE NOTIFICATION.
- THE CONTRACTOR MAY WORK IN THE EASTBOUND AND WESTBOUND LANES SIMULTANEOUSLY.
- THE CONTRACTOR SHALL SWEEP THE PAVEMENT SURFACE AND REMOVE TRAFFIC CONTROL AT THE END OF EACH NIGHT SHIFT PER ARTICLE 107.15 OF THE STANDARD SPECIFICATIONS. VERTICAL BARRICADES WILL REMAIN IN PLACE ALONG THE EDGES OF PAVEMENT.
- THE ALIGNMENTS AND SUPPORTING DATA SHOWN IN THE PLANS IS FOR REFERENCE PURPOSES ONLY. THE RELATIVE ACCURACY OF THE INFORMATION IS UNKNOWN AND CANNOT BE GUARANTEED. THE CONTRACTOR MAY BE REQUESTED TO ADJUST LAYOUT TO MATCH ACTUAL FIELD CONDITIONS AND THE INTENT OF THE PLANS.
- NO MATERIAL SHOULD BE LEFT ON OR NEAR THE ROADWAY DURING NON-WORKING HOURS.
- ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO THE ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
- ALL LOCATIONS OF MILLING AND RESURFACING ON SHOULDERS TO BE DETERMINED IN THE FIELD BY THE ENGINEER. MILLING AND RESURFACING OPERATIONS SHALL BE COMPLETED PRIOR TO THE INSTALLATION OF PROPOSED SHOULDER RUMBLE STRIPS.
- SHOULDER RUMBLE STRIPS SHALL BE OMITTED WHEN CROSSING EXISTING DRAINAGE STRUCTURES, EXISTING PAVEMENT MARKINGS, AND LOCATIONS OF EXISTING SHOULDER RUMBLE STRIPS.
- ALL LOCATIONS OF REMOVE AND REERECT RAIL ELEMENT OF EXISTING GUARDRAIL TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
SHOULDER RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5mm), 2"	4% AT 70 GYR	QC/QA

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LB/SY/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

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REV. - MS

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						80	2018-132-I	WILL	29	2
						CONTRACT NO. 62H55				
SCALE:		SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				90% FEDERAL	10% STATE
				ROADWAY	
				0021	
				URBAN	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1,168	1,168	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	291	291	
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	2,595	2,595	
63300575	REMOVE AND REERECT RAIL ELEMENT OF EXISTING GUARDRAIL	FOOT	1,359	1,359	
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	29,193	29,193	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	30	30	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1000	1000	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	500	500	
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	1000	1000	
* 78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	500	500	
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1	

* SPECIALTY ITEM

* SPECIAL PROVISION REQUIRED
** SPECIALTY ITEM

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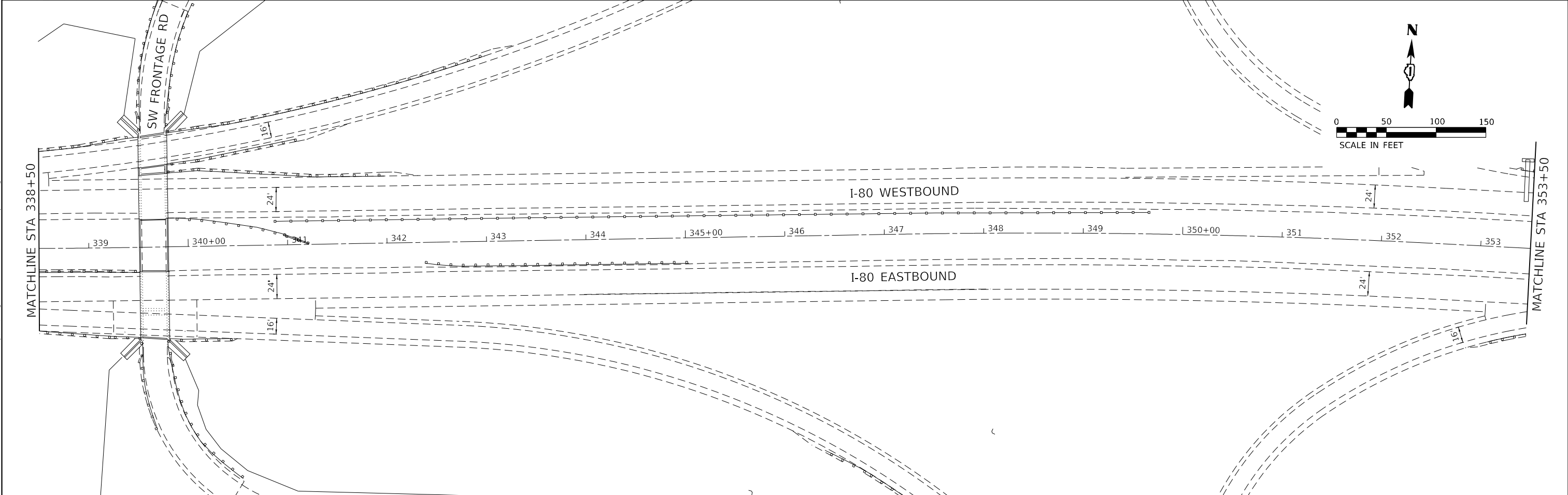
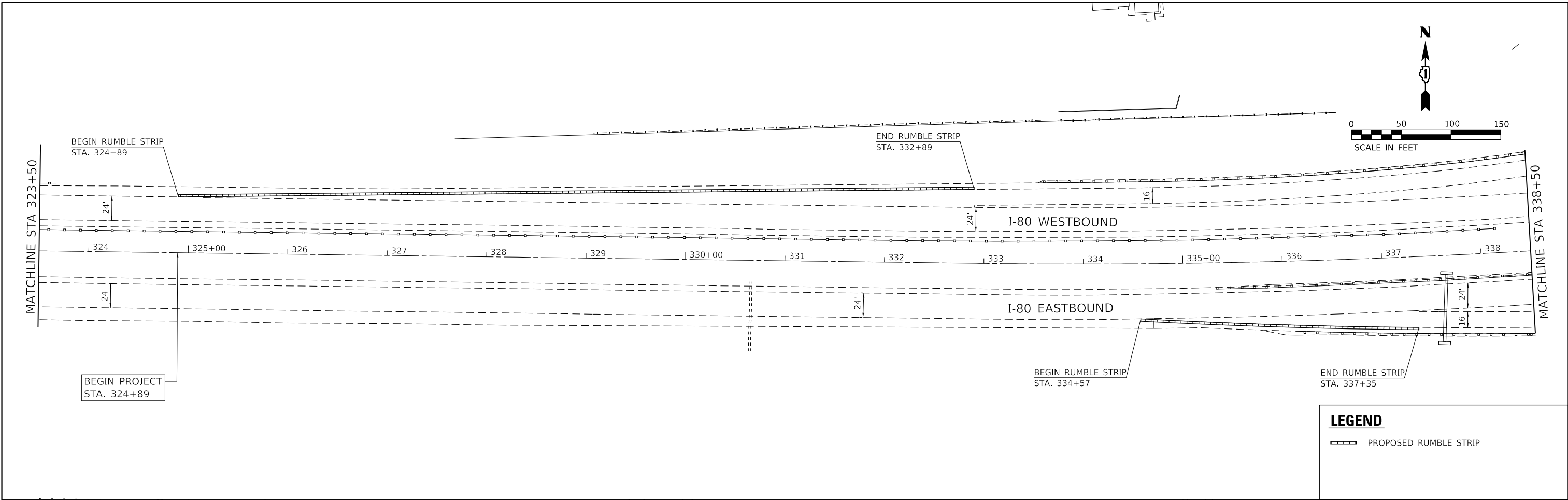
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2018-132-I	WILL	29	3
			CONTRACT NO. 62H55	
ILLINOIS FED. AID PROJECT				



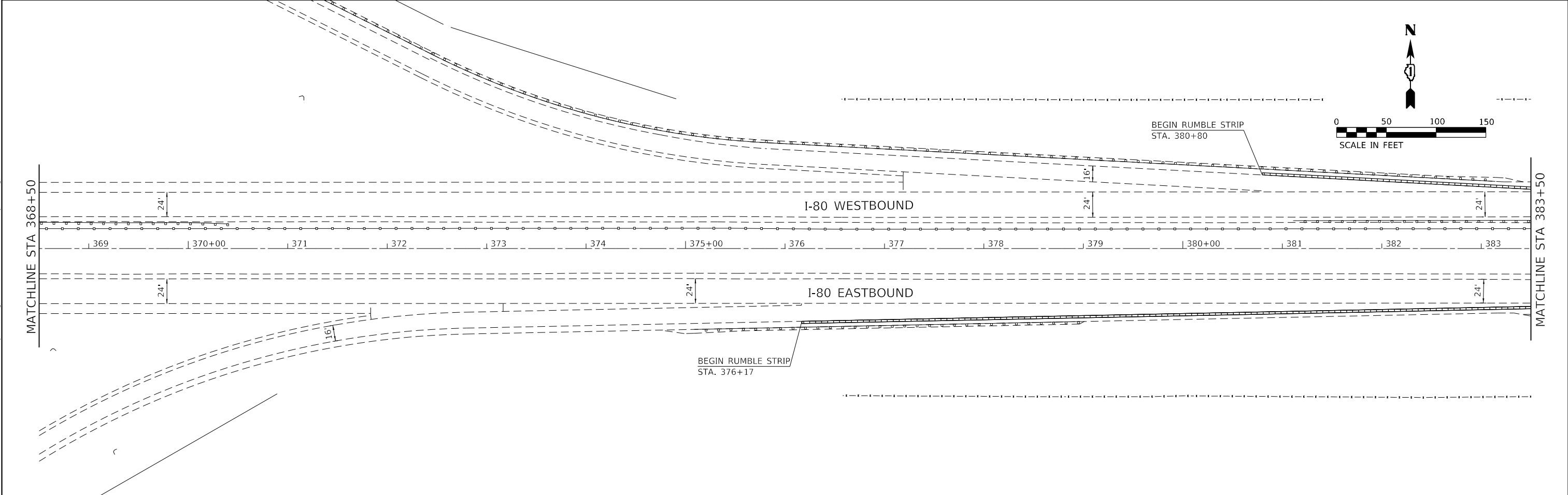
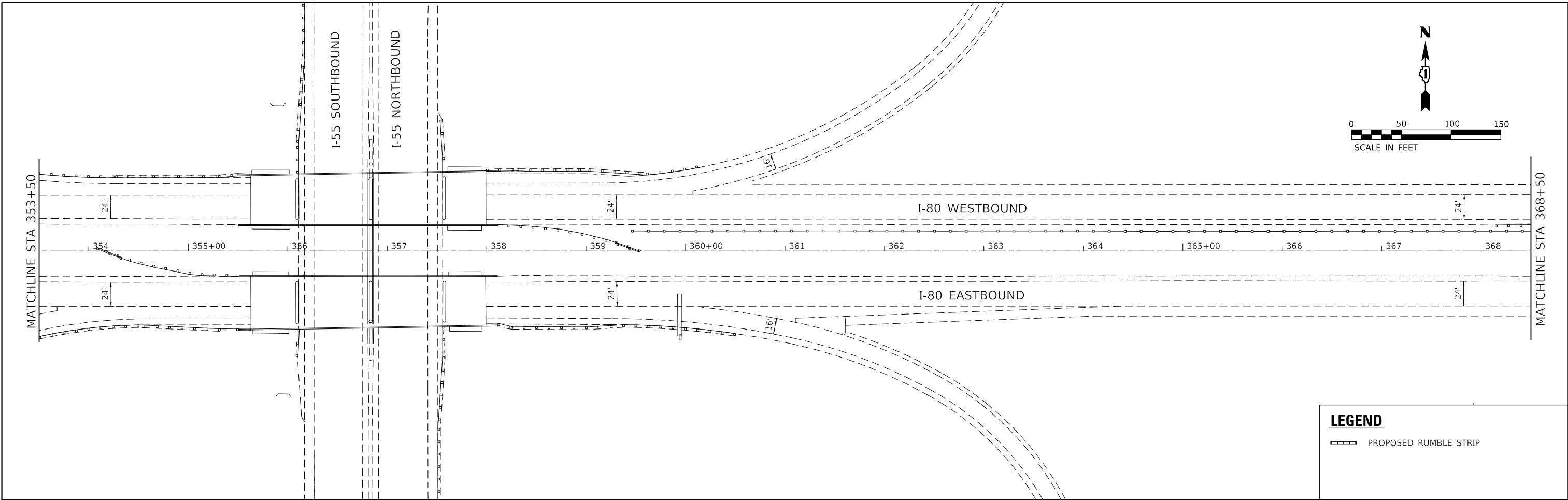
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
I-80
 SCALE: 1" = 50' SHEET 01 OF 17 SHEETS STA. 323+50 TO STA. 353+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2018-132-I	WILL	29	4
CONTRACT NO. 62H55				
ILLINOIS FED. AID PROJECT				



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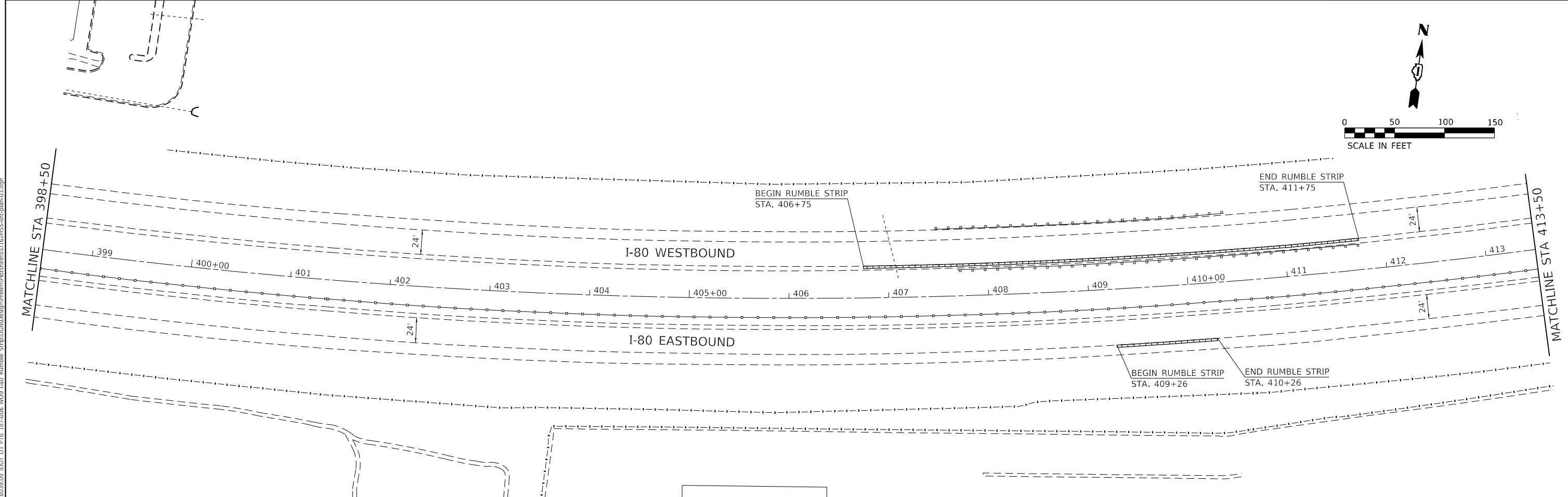
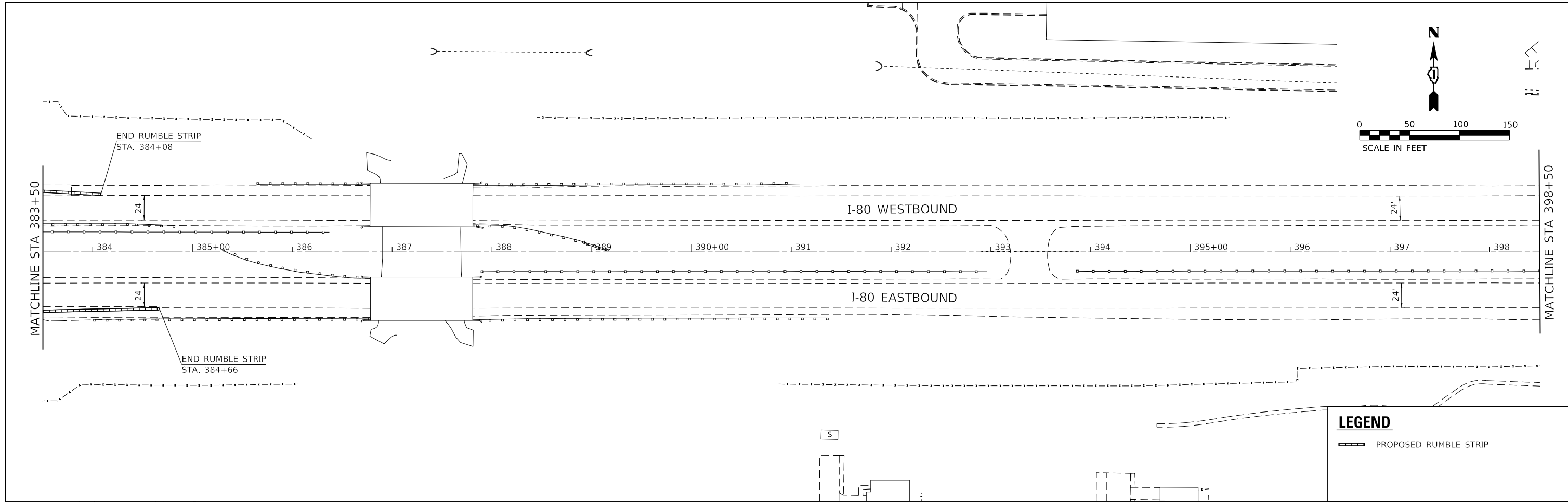
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
I-80

SCALE: 1" = 50' SHEET 02 OF 17 SHEETS STA. 353+50 TO STA. 383+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2018-132-I	WILL	29	5
CONTRACT NO. 62H55				
ILLINOIS FED. AID PROJECT				



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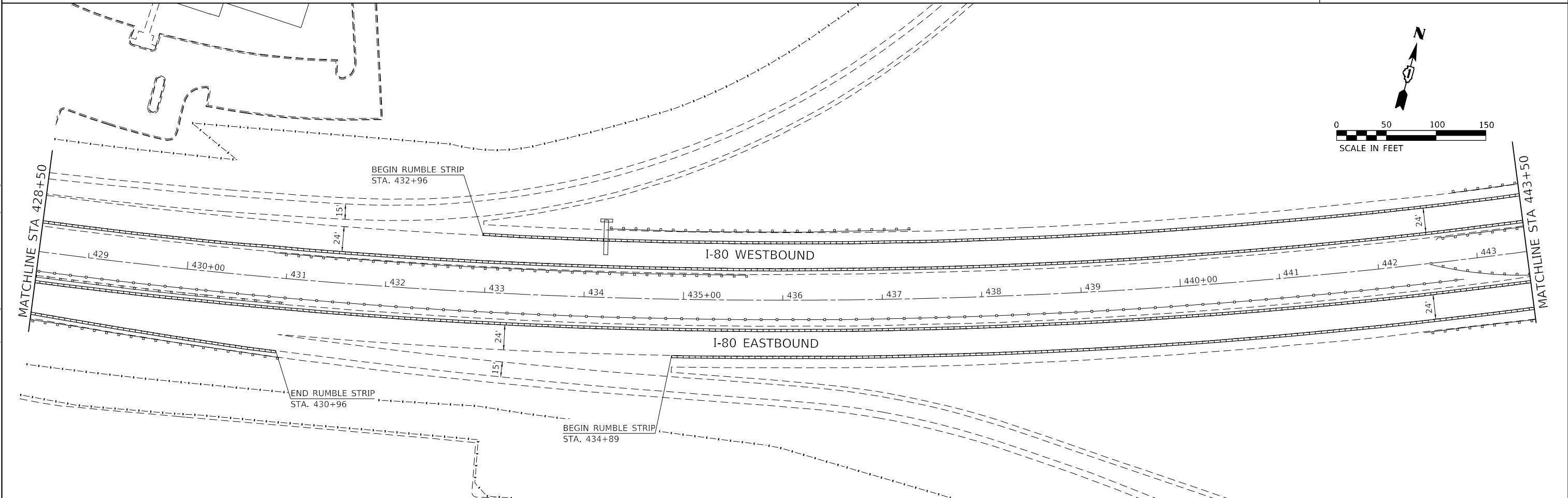
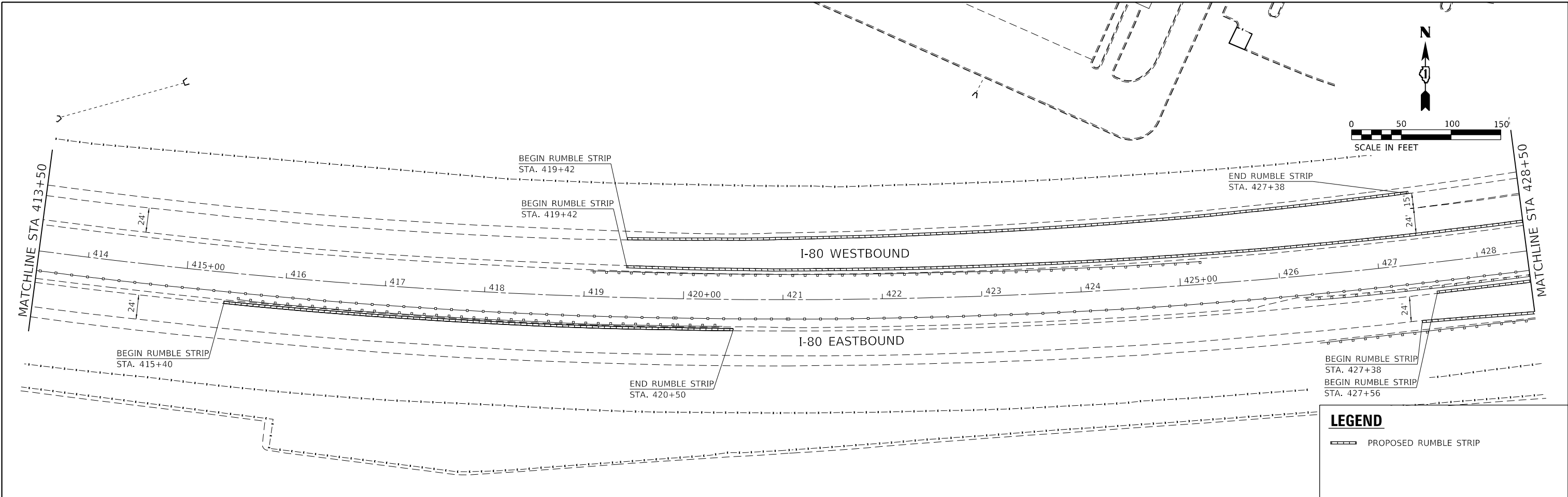
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PLOT DATE = 12/11/2018	DATE - 11/12/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
I-80**

SCALE: 1" = 50' SHEET 03 OF 17 SHEETS STA. 383+50 TO STA. 413+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2018-132-I	WILL	29	6
CONTRACT NO. 62H55				
ILLINOIS FED. AID PROJECT				



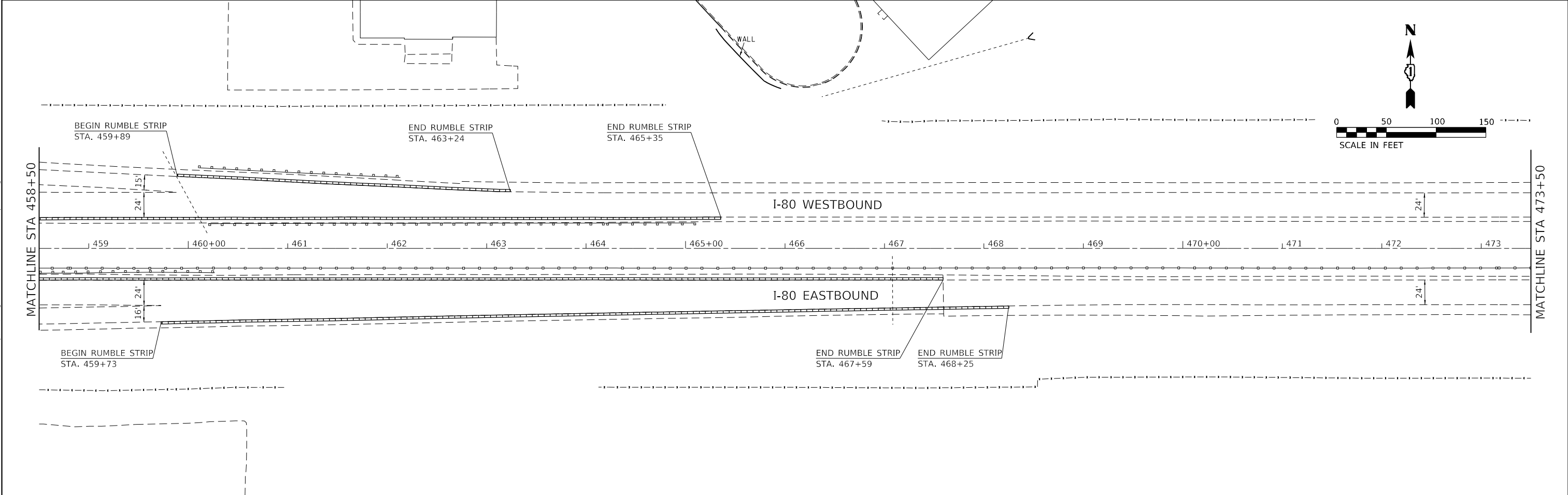
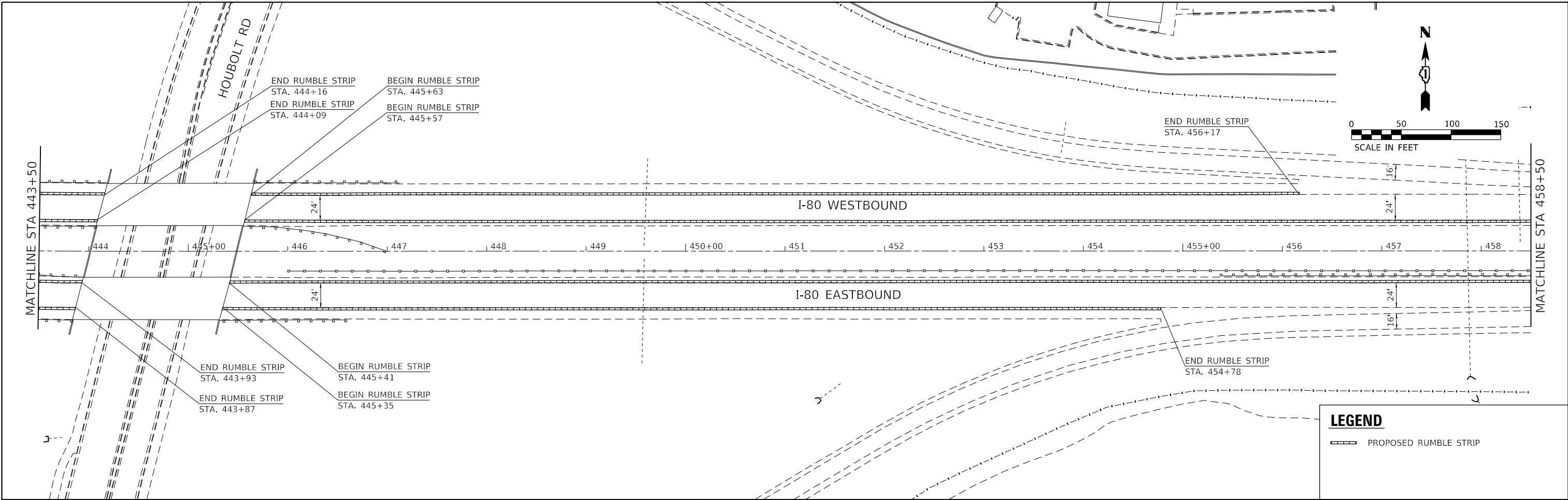
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN			
I-80			
SCALE: 1" = 50'	SHEET 04	OF 17 SHEETS	STA. 413+50 TO STA. 443+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2018-132-I	WILL	29	7
CONTRACT NO. 62H55				
ILLINOIS FED. AID PROJECT				



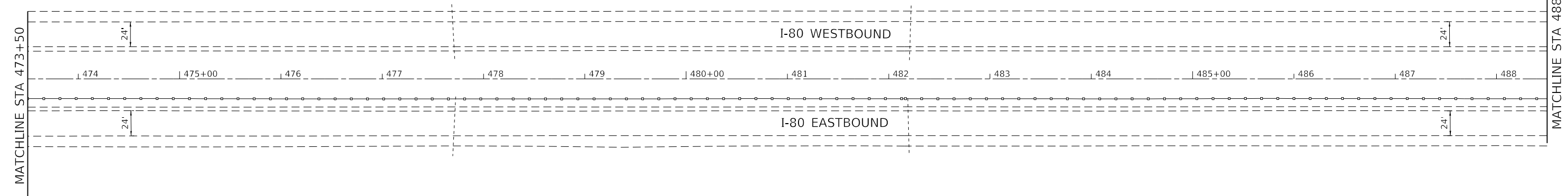
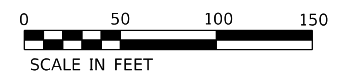
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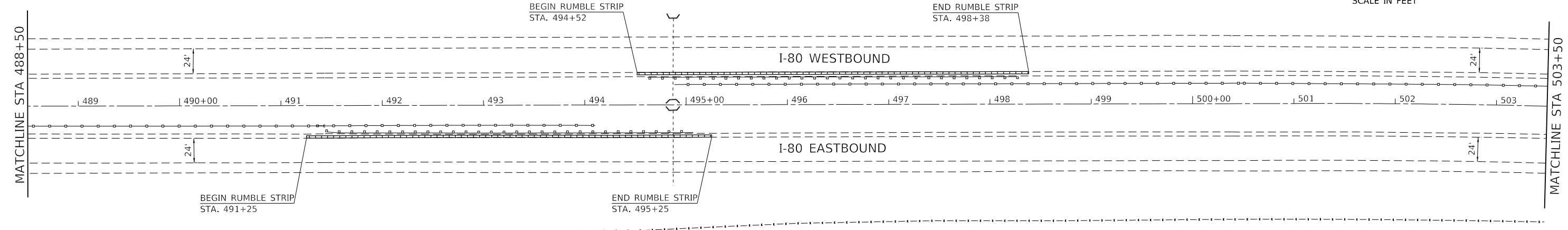
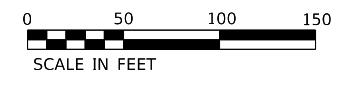
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
I-80
 SCALE: 1" = 50' SHEET 05 OF 17 SHEETS STA. 443+50 TO STA. 473+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2018-132-I	WILL	29	8
CONTRACT NO. 62H55				
ILLINOIS FED. AID PROJECT				



LEGEND
 PROPOSED RUMBLE STRIP



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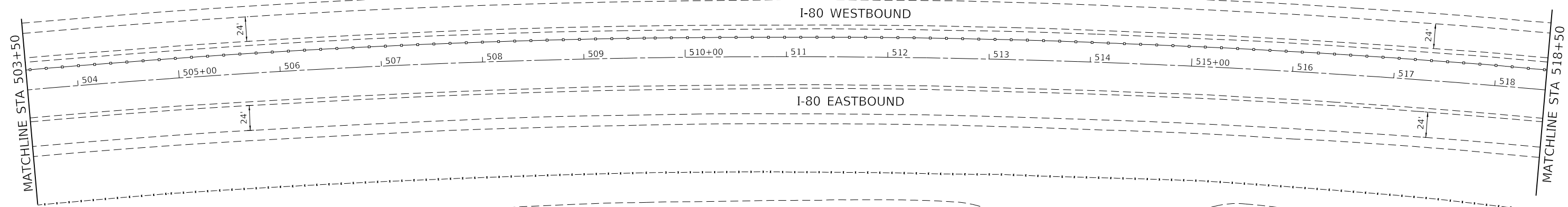
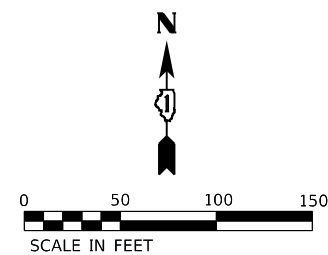
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

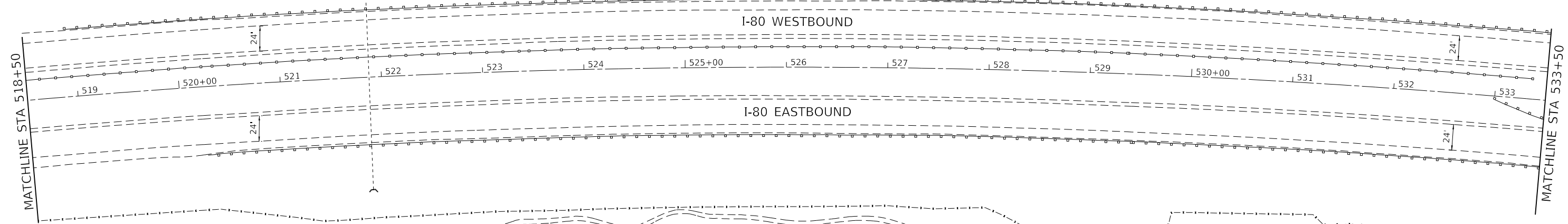
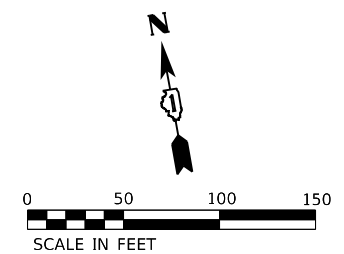
**ROADWAY PLAN
I-80**

SCALE: 1" = 50' SHEET 06 OF 17 SHEETS STA. 473+50 TO STA. 503+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2018-132-I	WILL	29	9
CONTRACT NO. 62H55				
ILLINOIS FED. AID PROJECT				



LEGEND
 PROPOSED RUMBLE STRIP



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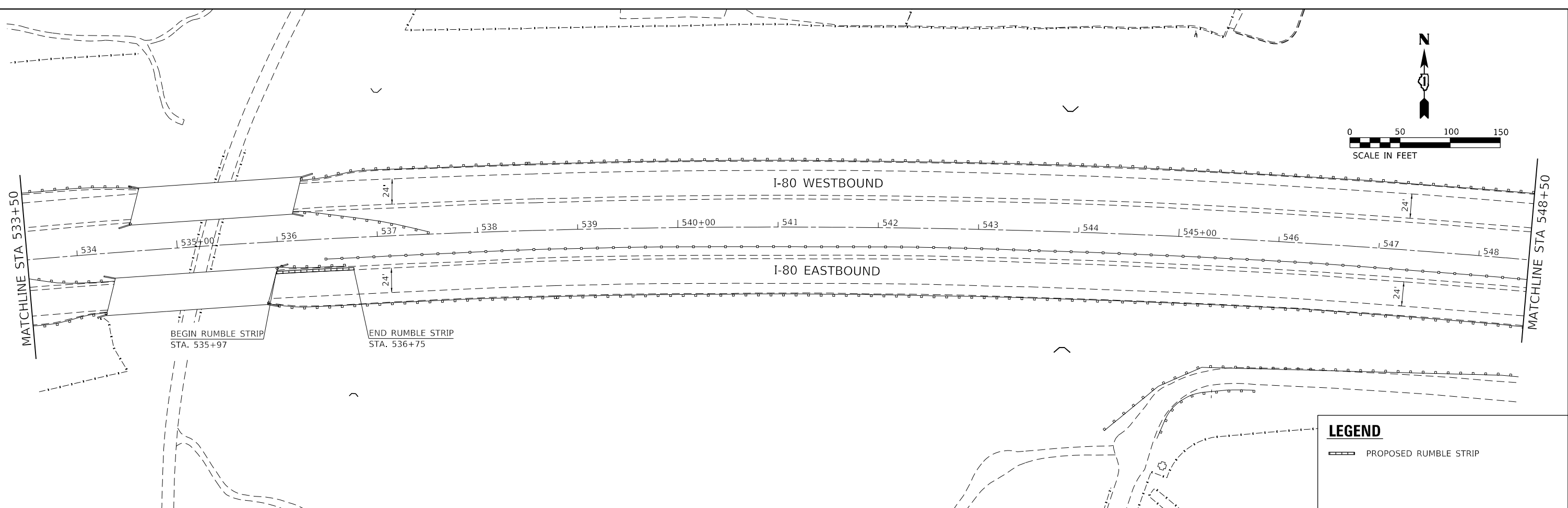
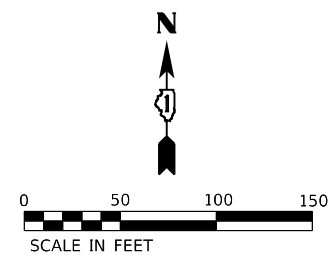
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
 I-80**

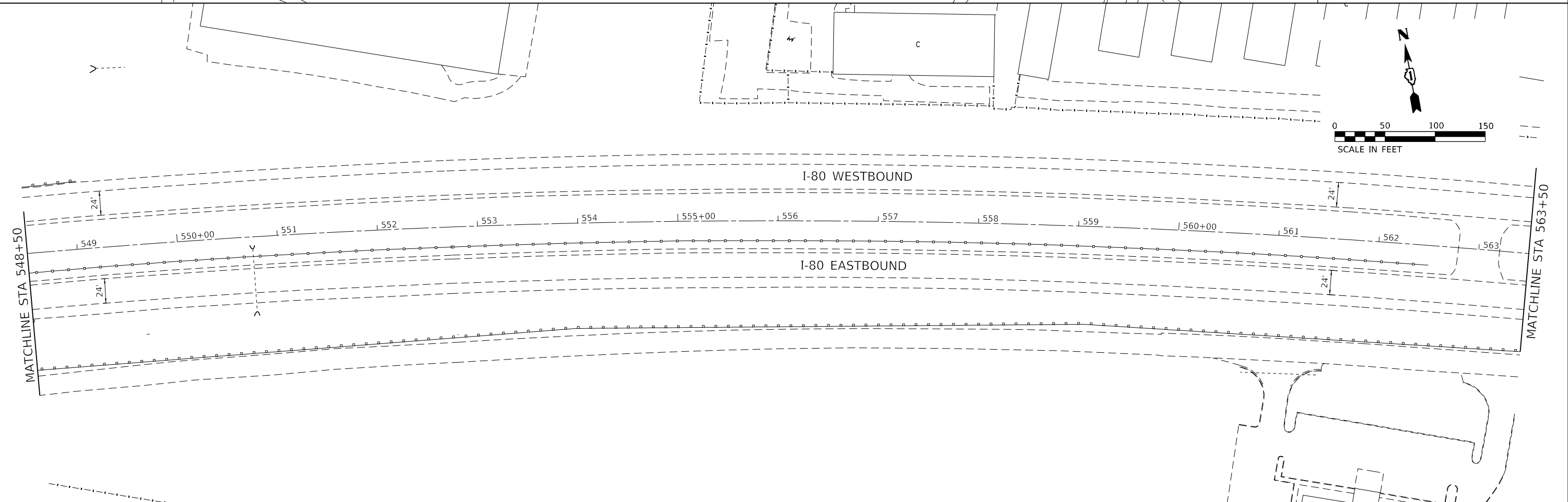
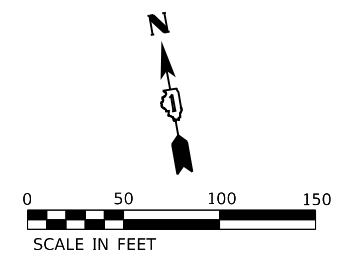
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2018-132-I	WILL	29	10
CONTRACT NO. 62H55				
ILLINOIS FED. AID PROJECT				



LEGEND

— PROPOSED RUMBLE STRIP



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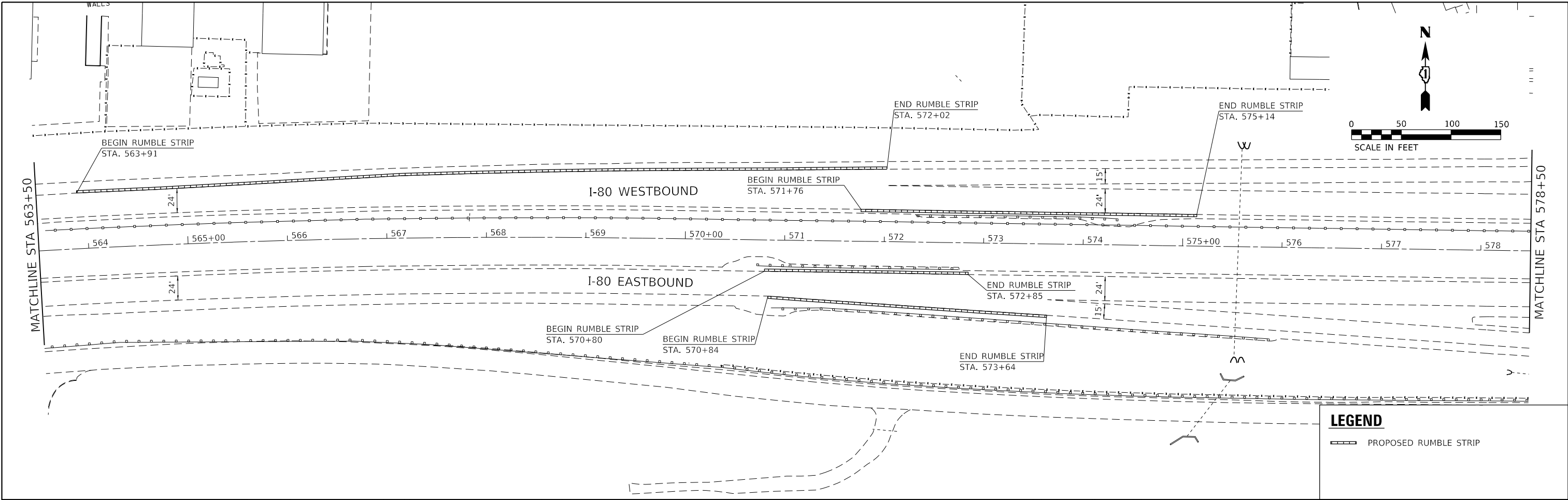
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

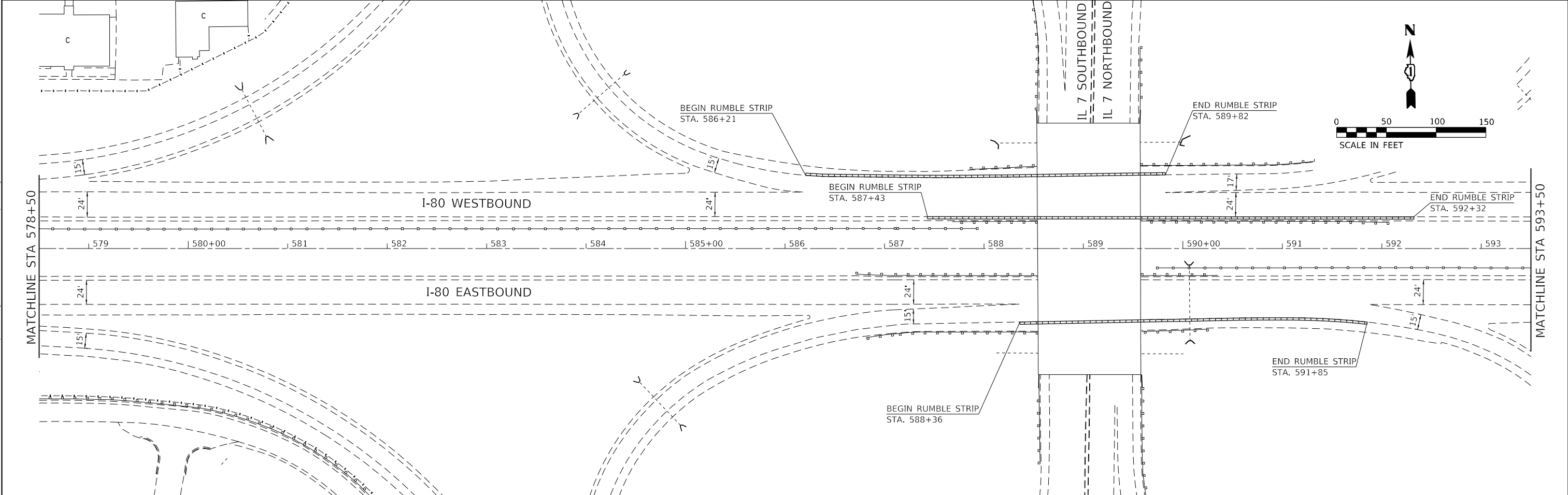
**ROADWAY PLAN
I-80**

SCALE: 1" = 50' SHEET 08 OF 17 SHEETS STA. 533+50 TO STA. 563+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2018-132-I	WILL	29	11
CONTRACT NO. 62H55				
ILLINOIS FED. AID PROJECT				



LEGEND
 PROPOSED RUMBLE STRIP



MODEL: D:\p1\130339.09\DOT D1_PFB_187-006_W09_I-80_Rumble_Strip\DCN\Drawn\Prelim\Plan\I-80_Rumble_Strip_Plan_09.dgn
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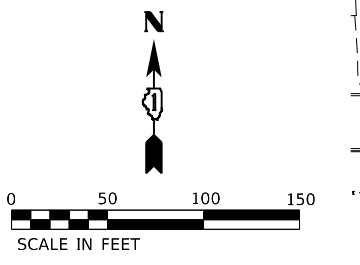
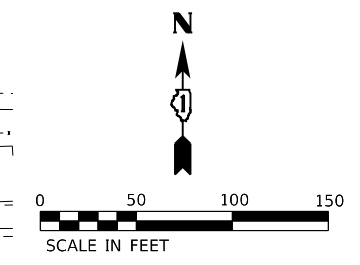
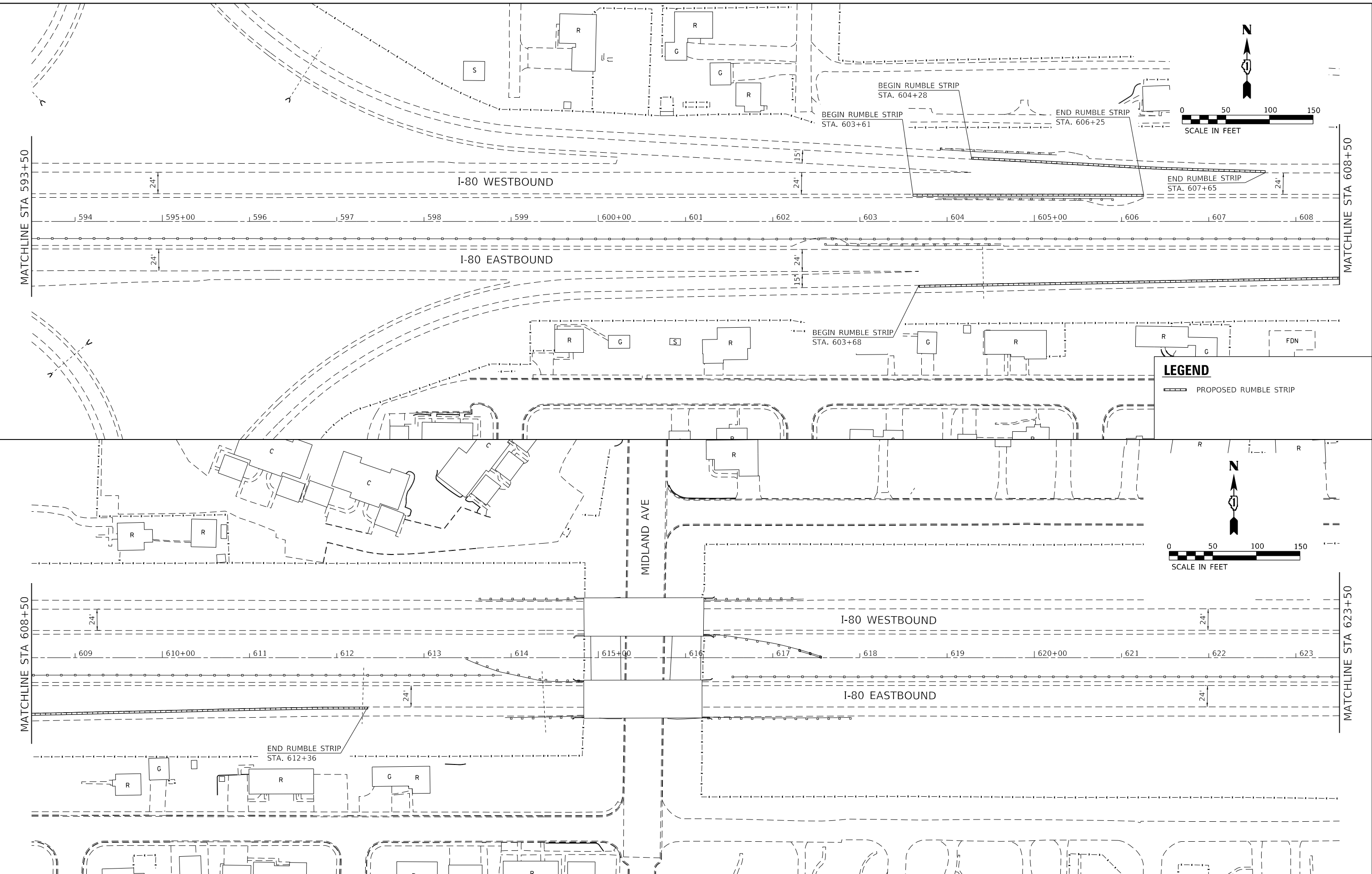
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DRAWN - CS	REVISED -	
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PLOT DATE = 12/11/2018	DATE - 11/12/2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN			
I-80			
SCALE: 1" = 50'	SHEET 09	OF 17 SHEETS	STA. 563+50 TO STA. 593+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2018-132-I	WILL	29	12
CONTRACT NO. 62H55				
ILLINOIS FED. AID PROJECT				

MODEL: D:\p1\130339.09\DDOT\01_PFB\187-206_W09_L40_Rumble_Strip\DCN\Drawn\Prelim\p187checr01.dwg
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LEGEND
 --- PROPOSED RUMBLE STRIP

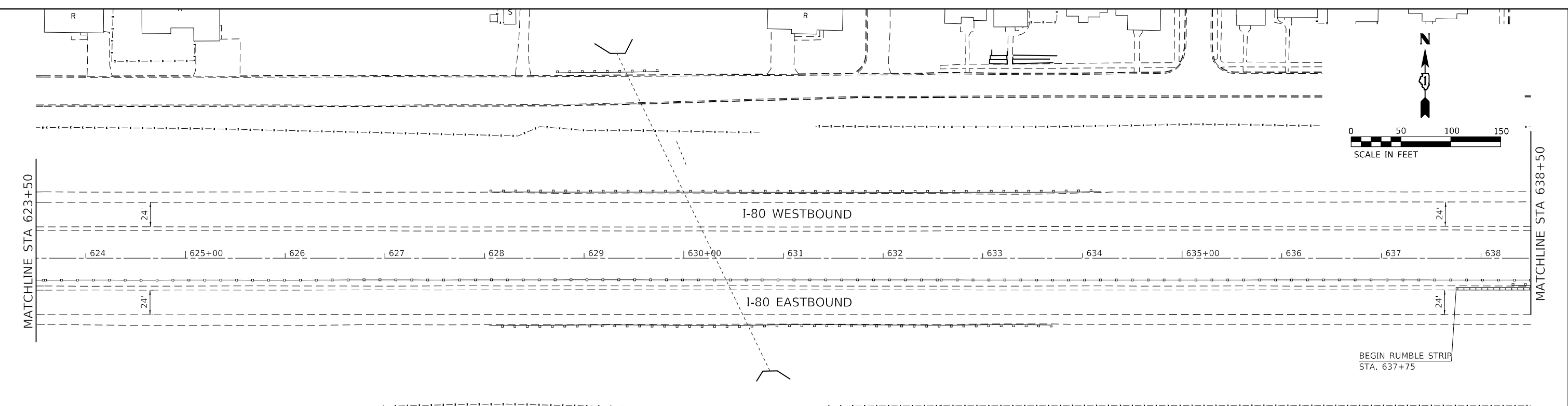
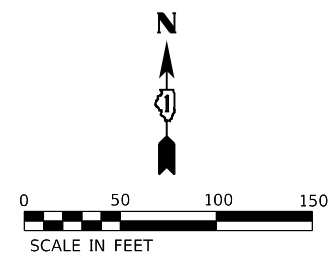
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DRAWN - CS	REVISOR -	
PLOT SCALE = 100,0000' / in.	CHECKED - JH	REVISED -
PLOT DATE = 12/11/2018	DATE - 11/12/2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

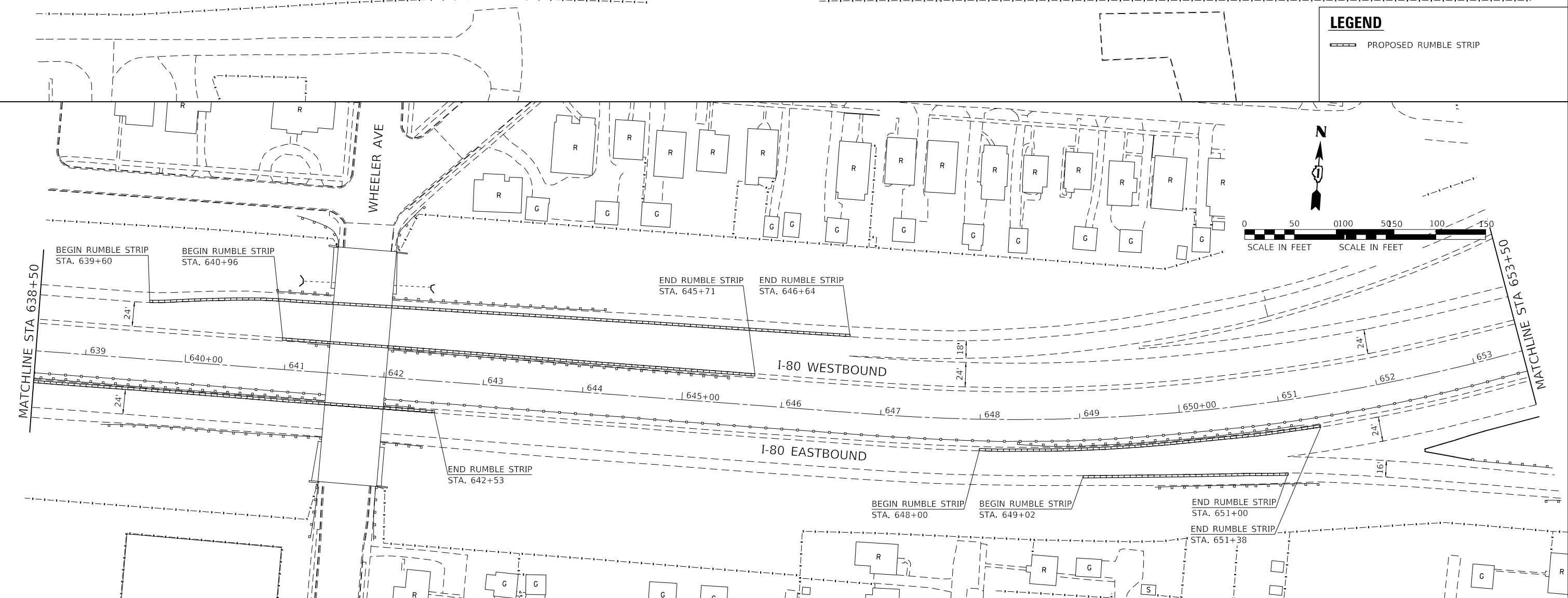
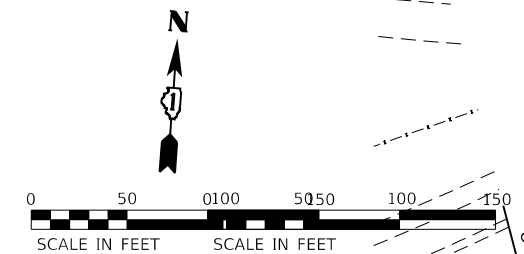
**ROADWAY PLAN
 I-80**

SCALE: 1" = 50' SHEET 10 OF 17 SHEETS STA. 593+50 TO STA. 623+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2018-132-I	WILL	29	13
CONTRACT NO. 62H55				
ILLINOIS FED. AID PROJECT				



LEGEND
 PROPOSED RUMBLE STRIP



MODEL: D:\p1\130339.09 IDOT D1 P1B 1B7-2006_W09 I-80 Rumble Strip\DCN\Drawn\Pre\130339.09 I-80 Rumble Strip.dwg
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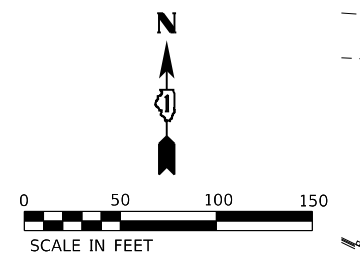
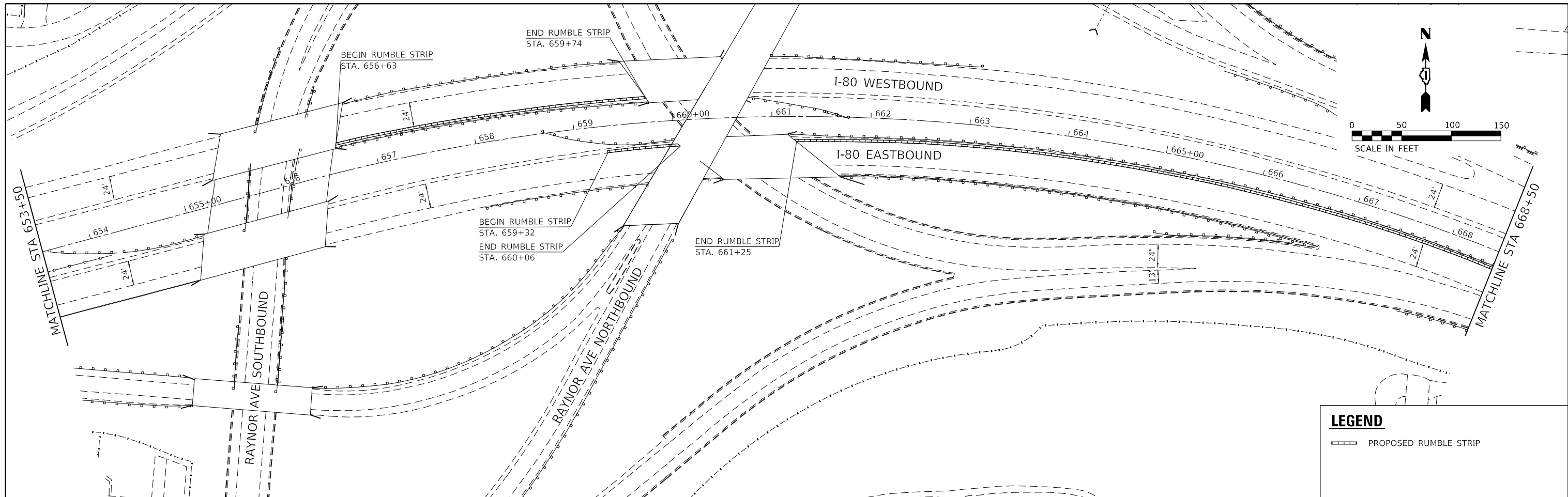
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DRAWN - CS	REVISOR -	
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PLOT DATE = 12/11/2018	DATE - 11/12/2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
 I-80**

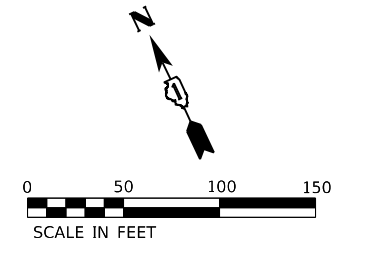
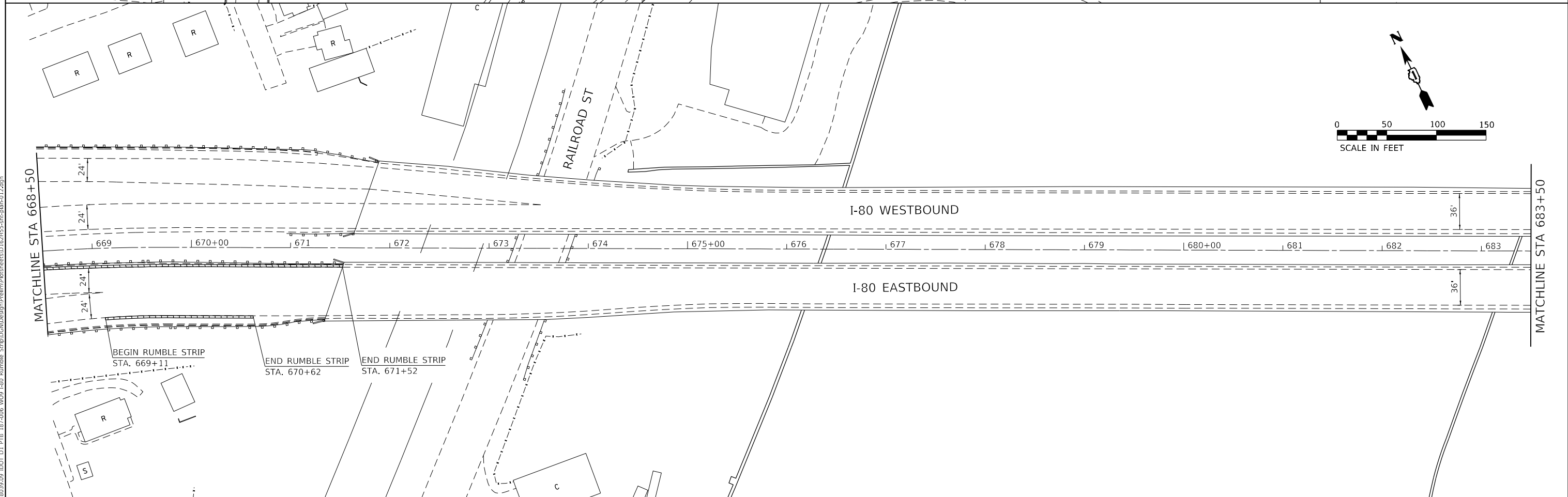
SCALE: 1" = 50' SHEET 11 OF 17 SHEETS STA. 623+50 TO STA. 653+50

F.A.I. RTE. 80	SECTION 2018-132-I	COUNTY WILL	TOTAL SHEETS 29	SHEET NO. 14
CONTRACT NO. 62H55				
ILLINOIS FED. AID PROJECT				



LEGEND

PROPOSED RUMBLE STRIP



MODEL: D:\p\1\ 130339.09 IDOT D1 PFB. 187-306. W09 I-80 Rumble Strip.dwg Date: 12/11/2018

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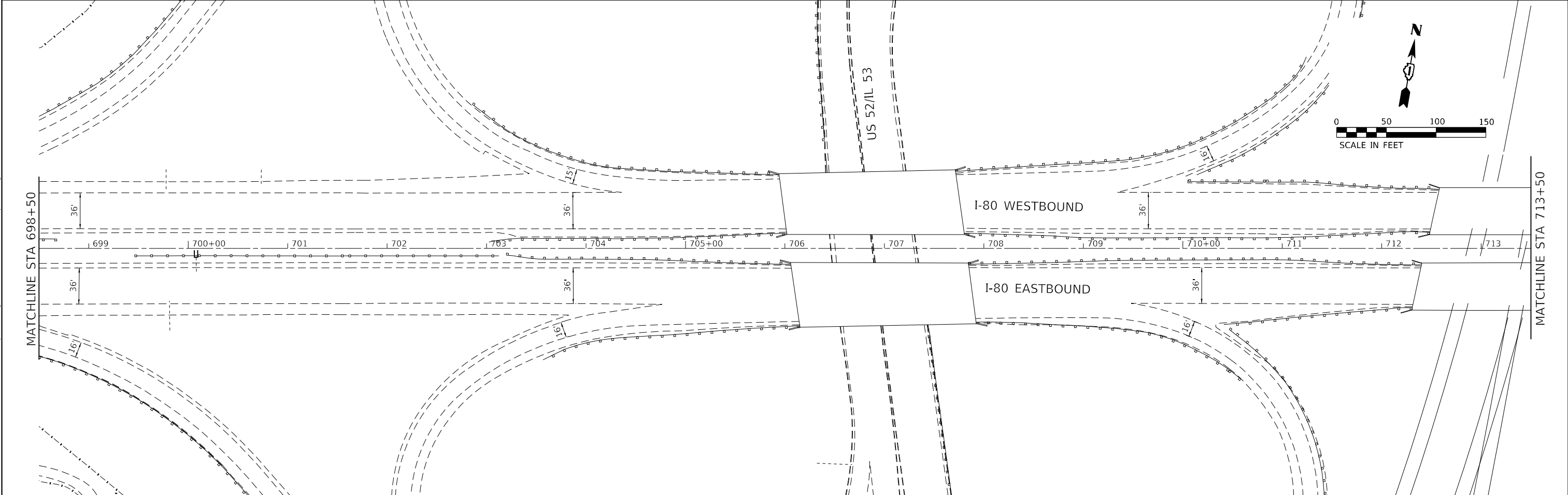
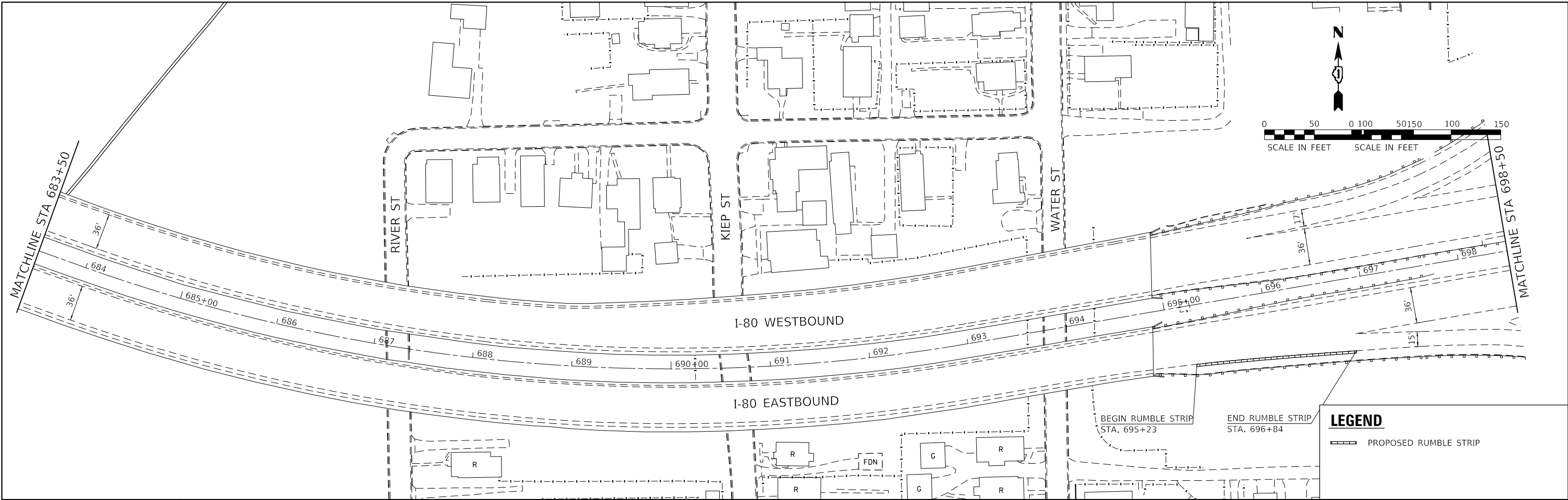
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
I-80**

SCALE: 1" = 50' SHEET 12 OF 17 SHEETS STA. 653+50 TO STA. 683+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2018-132-I	WILL	29	15
CONTRACT NO. 62H55				

ILLINOIS FED. AID PROJECT



MODEL: D:\p1\11\130239.09\DOT D1_PFB_187-006_W09_140_Rumble_Strip\DCN\Drawn\Prelim\Plan\62H55-R13.dgn
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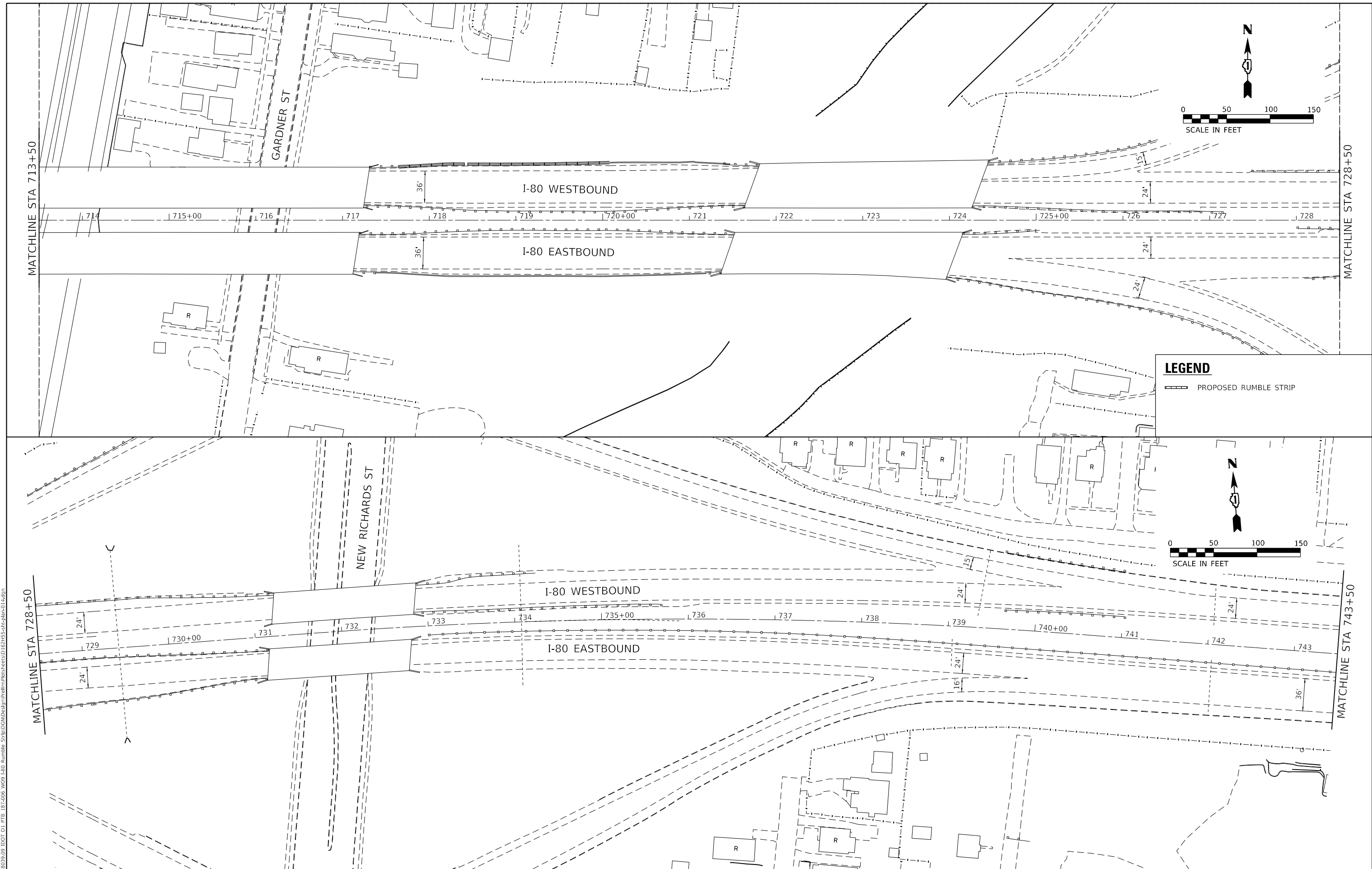
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DRAWN - CS	REVISOR -	
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PLOT DATE = 12/11/2018	DATE - 11/12/2018	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN			
I-80			
SCALE: 1" = 50'	SHEET 13	OF 17 SHEETS	STA. 683+50 TO STA. 713+50

F.A.I. RTE. 80	SECTION 2018-132-I	COUNTY WILL	TOTAL SHEETS 29	SHEET NO. 16
CONTRACT NO. 62H55			ILLINOIS FED. AID PROJECT	

MODEL: D:\p1\180399.09 IDOT D1 PFB 187-2006_W09 I-80 Rumble Strip\DCN\Drawn\Pre\m\p187-2006-I-80-Rumble-Strip.dgn
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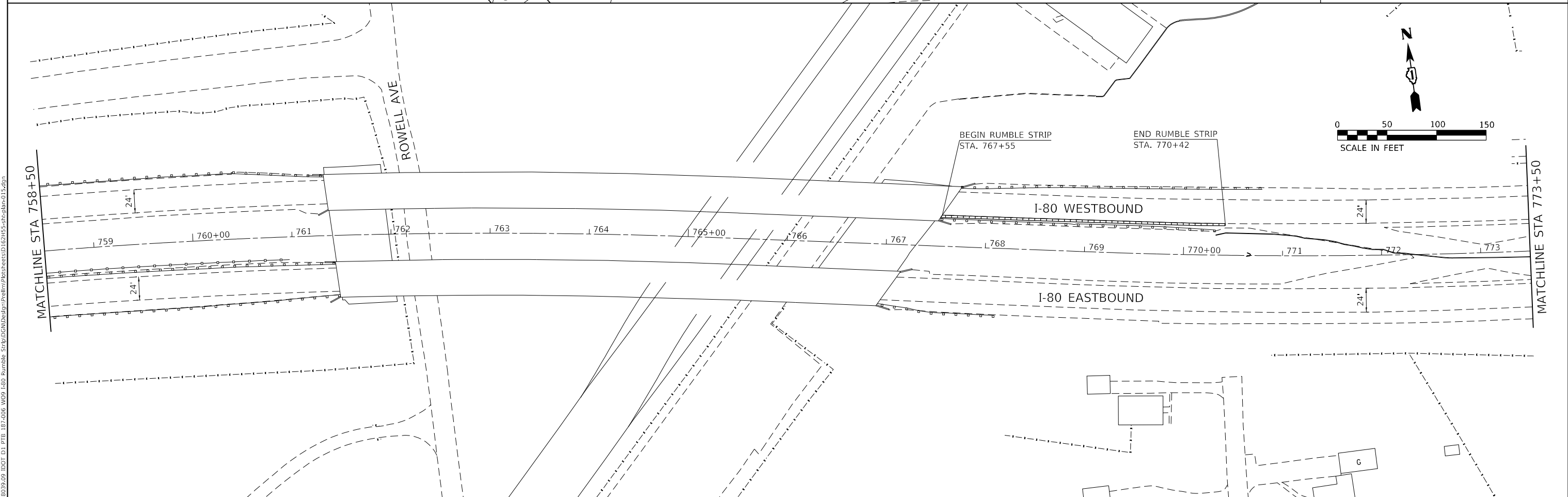
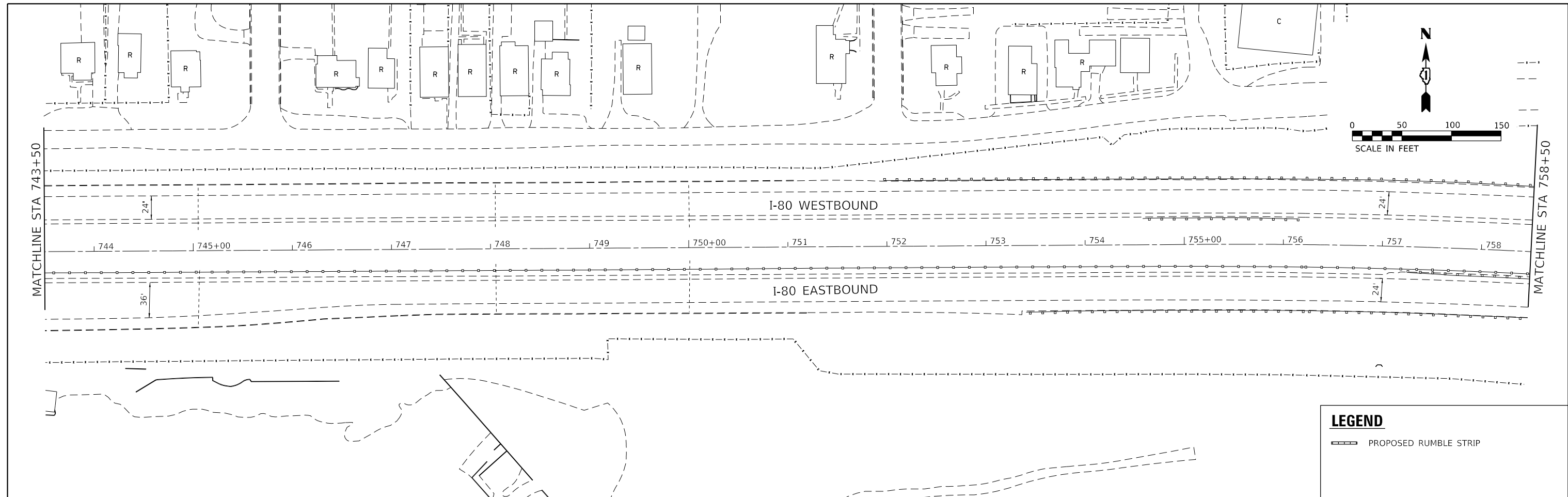
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PLOT DATE = 12/11/2018	DATE - 11/12/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN			
I-80			
SCALE: 1" = 50'	SHEET 14	OF 17 SHEETS	STA. 713+50 TO STA. 743+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2018-132-I	WILL	29	17
CONTRACT NO. 62H55				
ILLINOIS FED. AID PROJECT				

MODEL: D:\p1\130339.09 IDOT D1 P1B 1B7-2018_W09 I-80 Rumble Strip\DCN\Drawn\Pre\m\p1b7checr0162\155-rhc-plan-015.dgn
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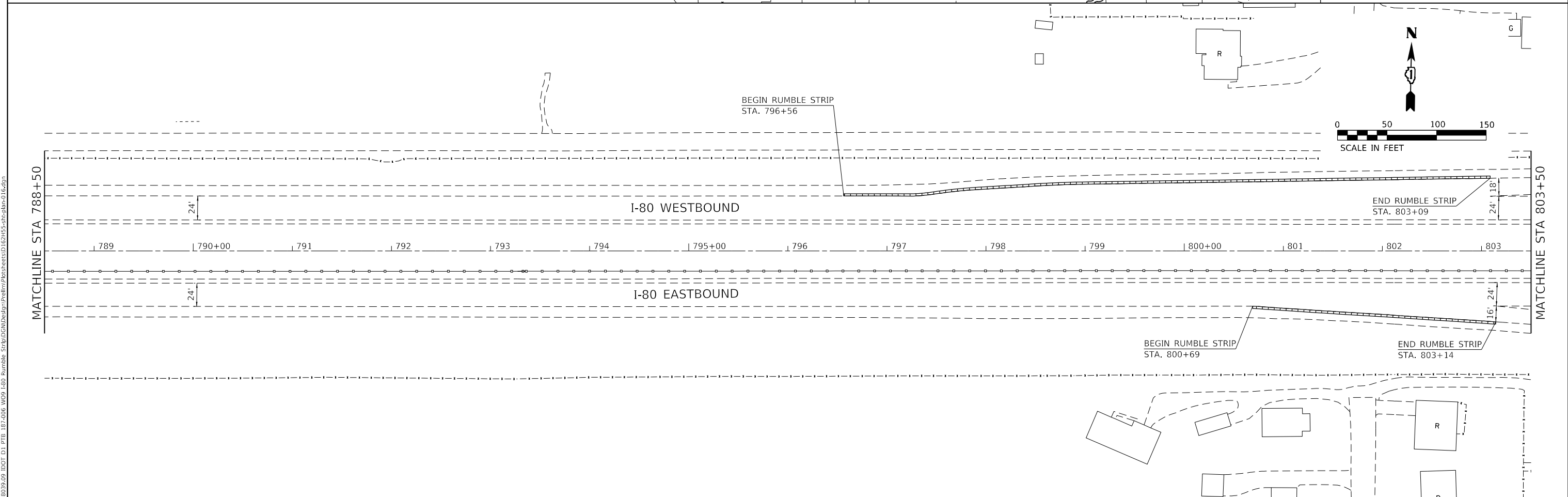
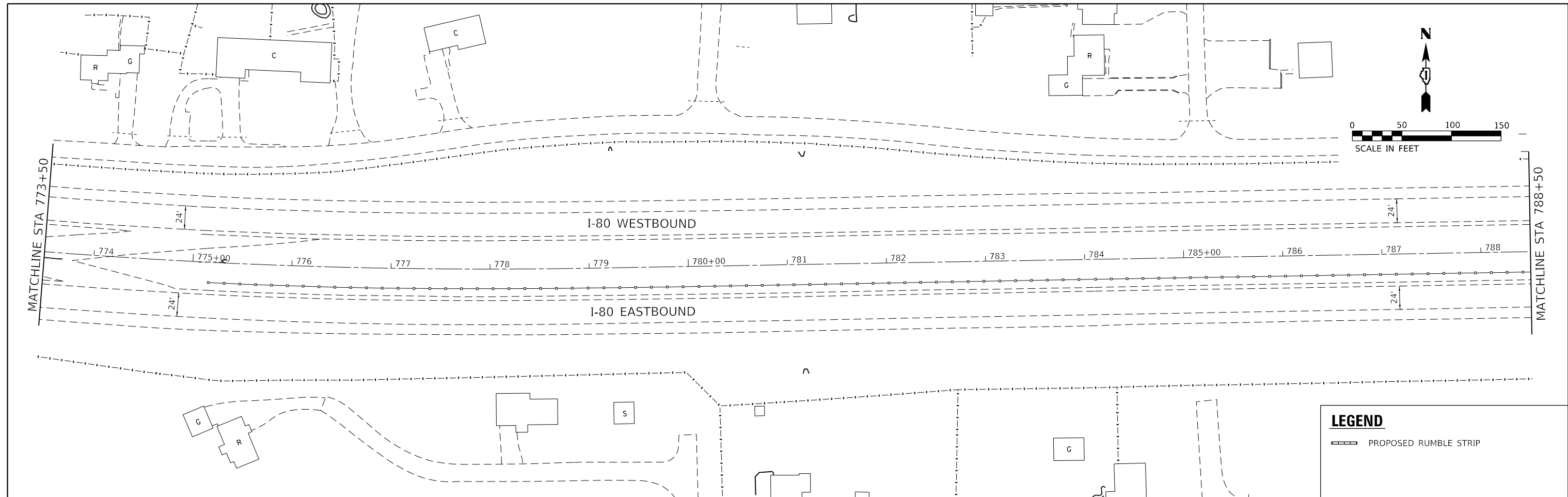
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN			
I-80			
SCALE: 1" = 50'	SHEET 15	OF 17 SHEETS	STA. 743+50 TO STA. 773+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2018-132-I	WILL	29	18
CONTRACT NO. 62H55				
ILLINOIS FED. AID PROJECT				

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LEGEND
 PROPOSED RUMBLE STRIP

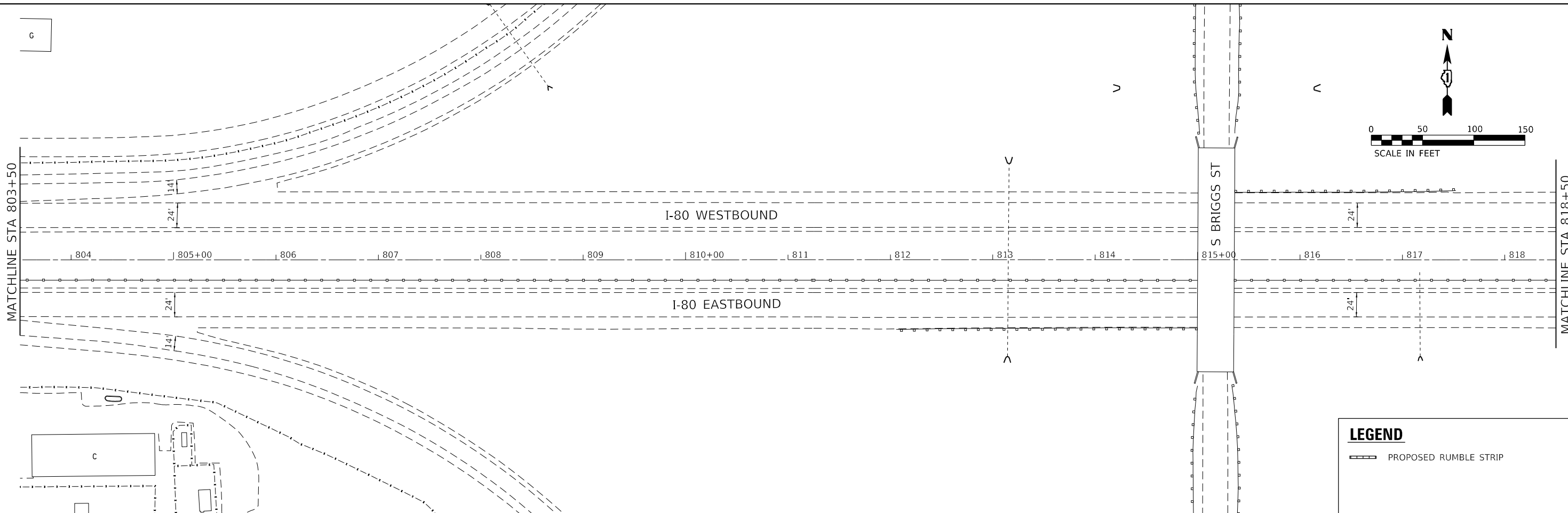
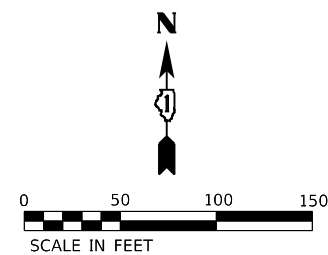
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DRAWN - CS	REVISOR -	
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PLOT DATE = 12/11/2018	DATE - 11/12/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

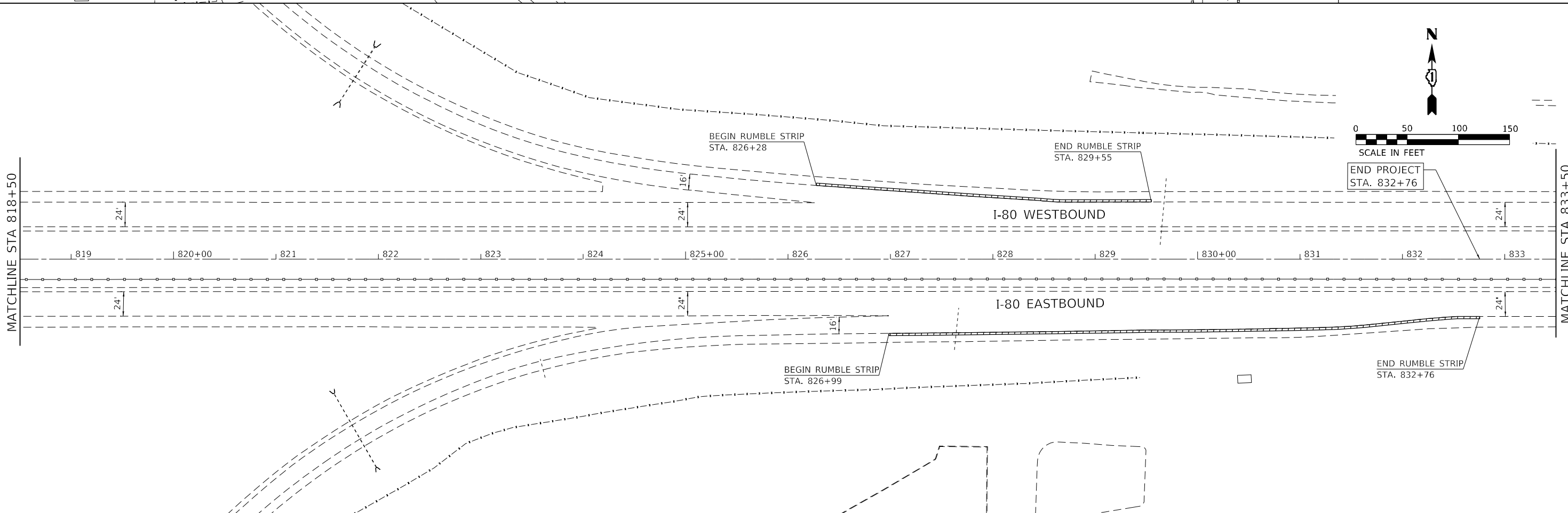
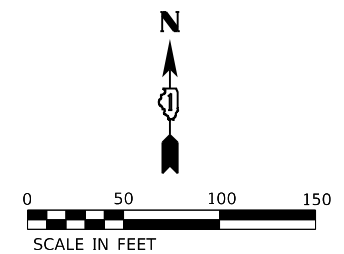
**ROADWAY PLAN
I-80**

SCALE: 1" = 50' SHEET 16 OF 17 SHEETS STA. 773+50 TO STA. 803+50

F.A.I. RTE. 80	SECTION 2018-132-I	COUNTY WILL	TOTAL SHEETS 29	SHEET NO. 19
CONTRACT NO. 62H55				
ILLINOIS FED. AID PROJECT				



LEGEND
 - - - - - PROPOSED RUMBLE STRIP



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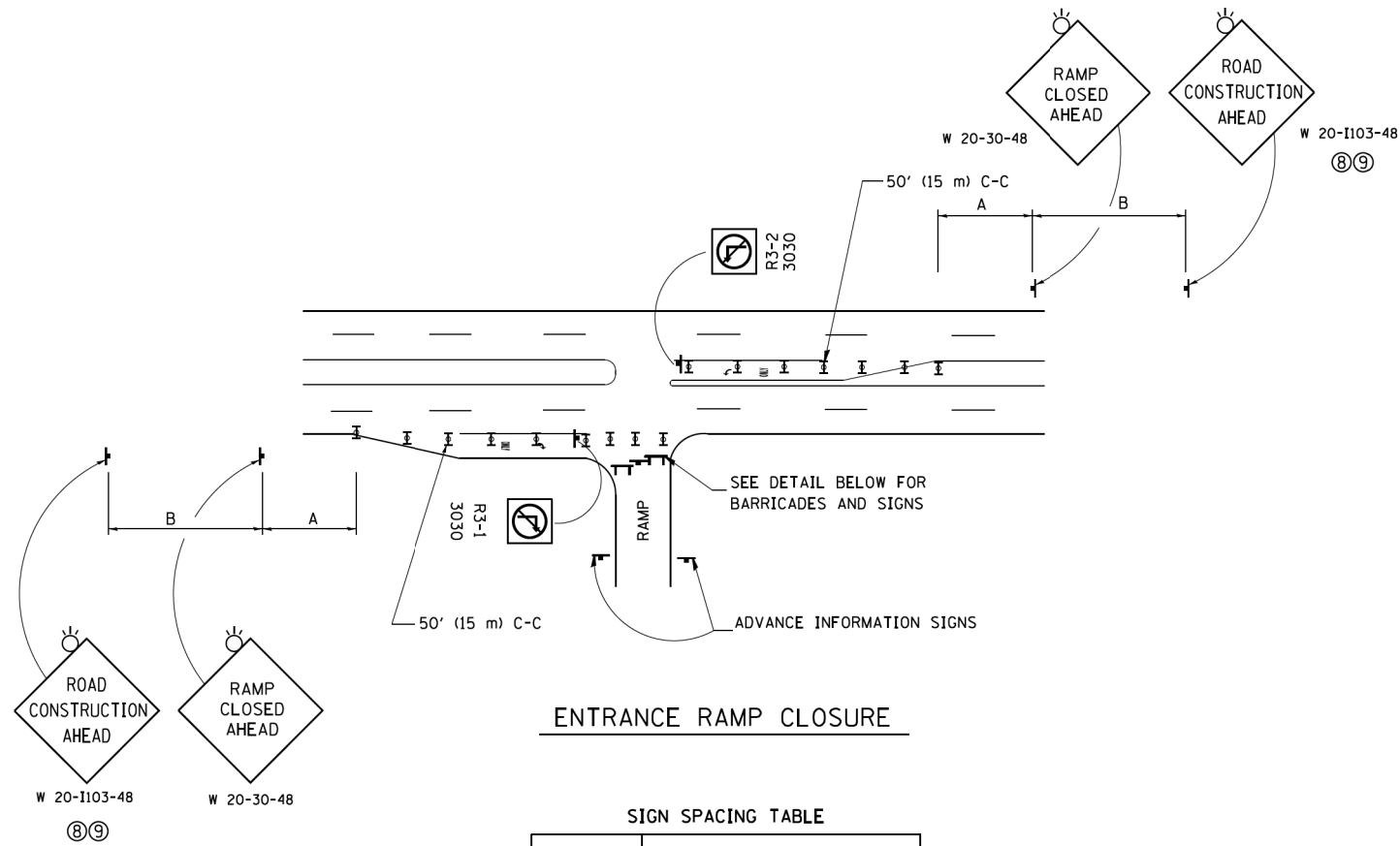
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PLOT DATE = 12/11/2018	DATE - 11/12/2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
 I-80**

SCALE: 1" = 50' SHEET 17 OF 17 SHEETS STA. 803+50 TO STA. 833.50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2018-132-I	WILL	29	20
CONTRACT NO. 62H55				
		ILLINOIS	FED. AID PROJECT	

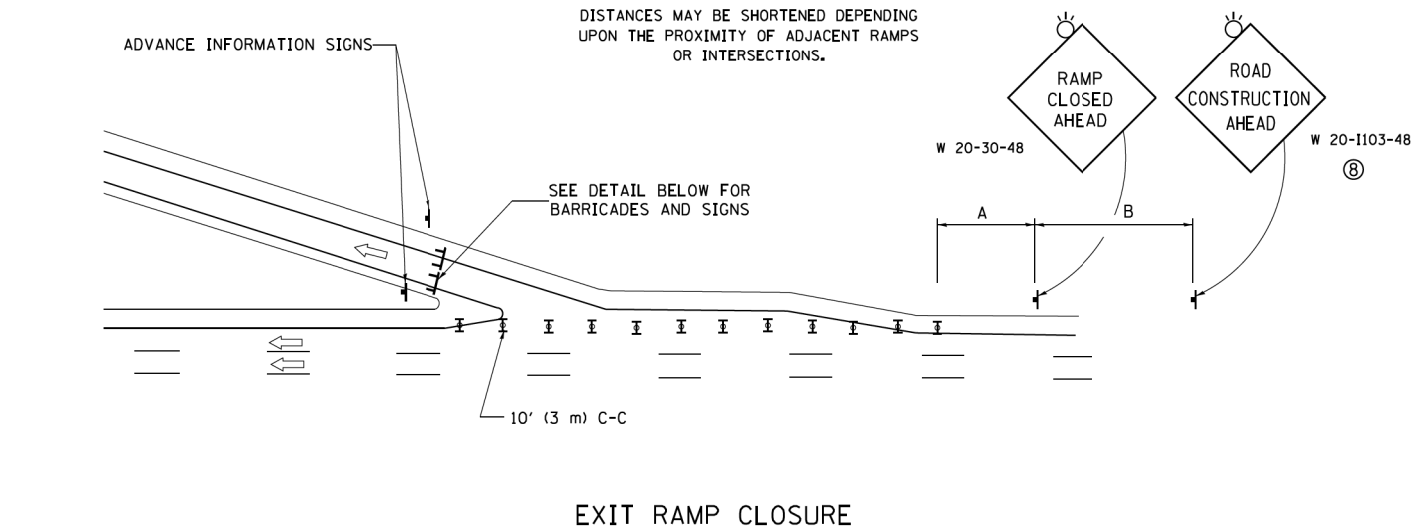


ENTRANCE RAMP CLOSURE

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)

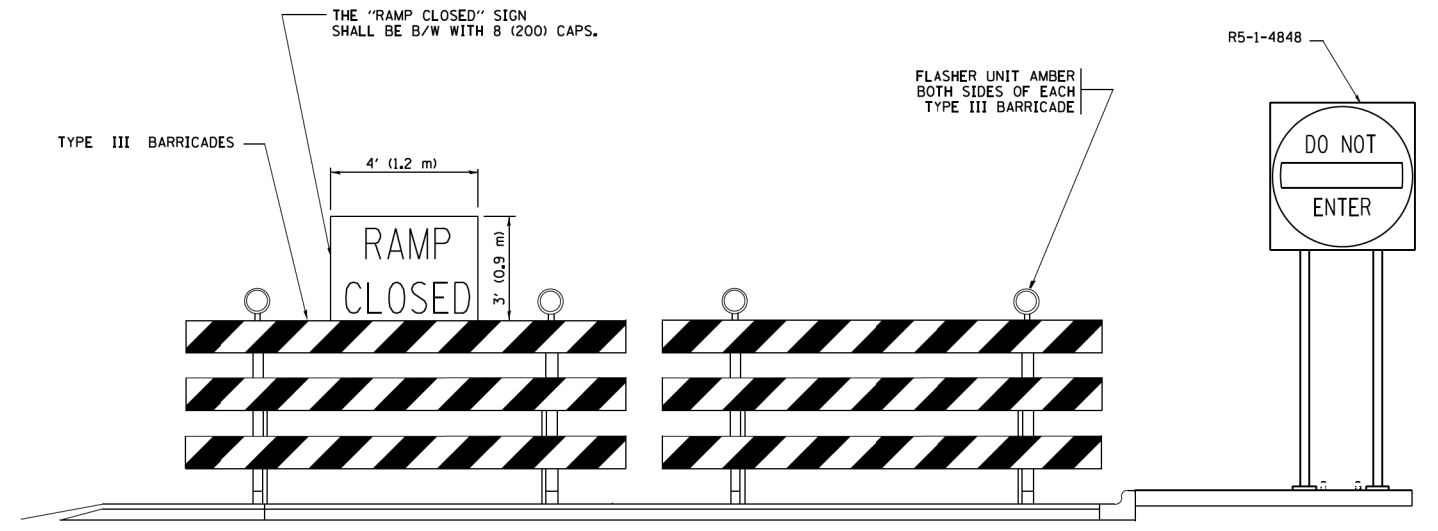
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

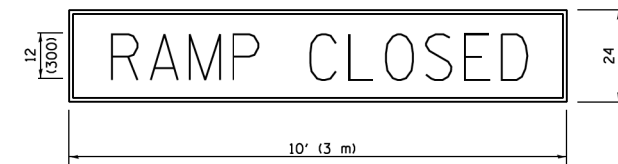
SYMBOLS

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



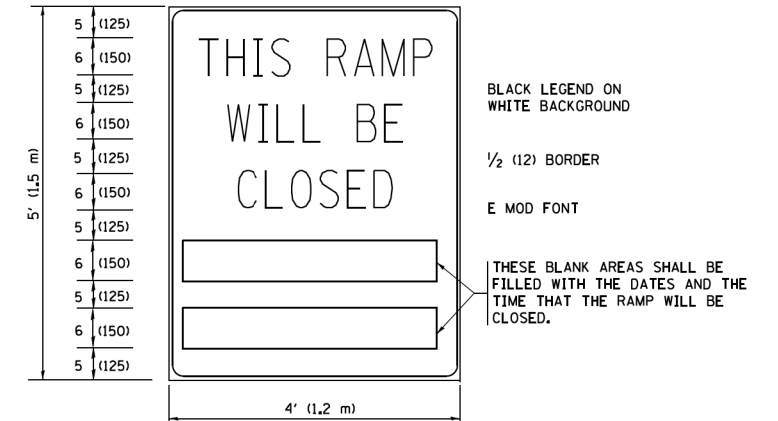
DETAIL FOR REQUIRED BARRICADES & SIGNS

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.

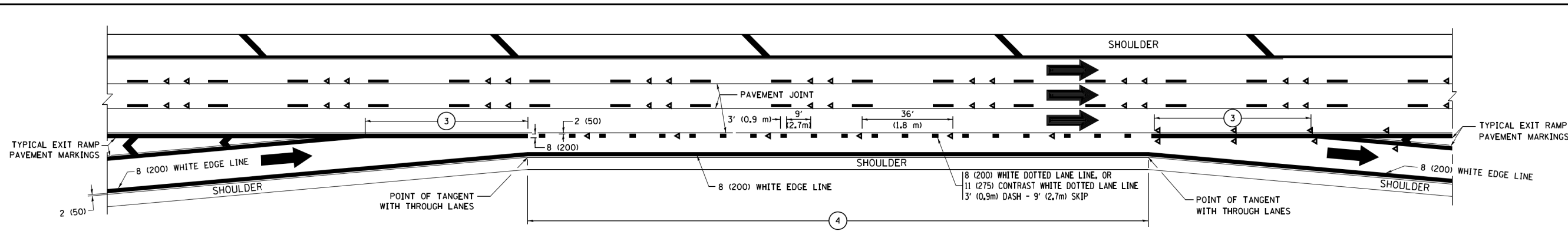
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ENTRANCE AND EXIT RAMP CLOSURE DETAILS

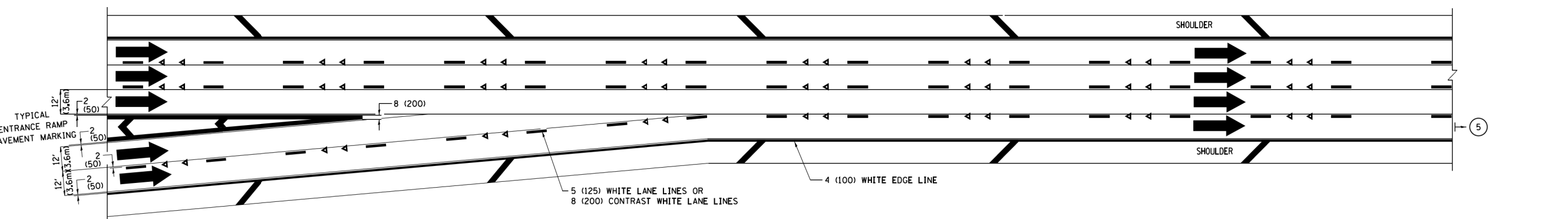
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Default	Default	CHECKED -	REVISED - S.P.B. 12-09
	PLOT SCALE = 50,000' / 1" =	DATE - 02-83	REVISED - M.D. 06-13
	PLOT DATE = 11/27/2017		REVISED - M.D. 01-18

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

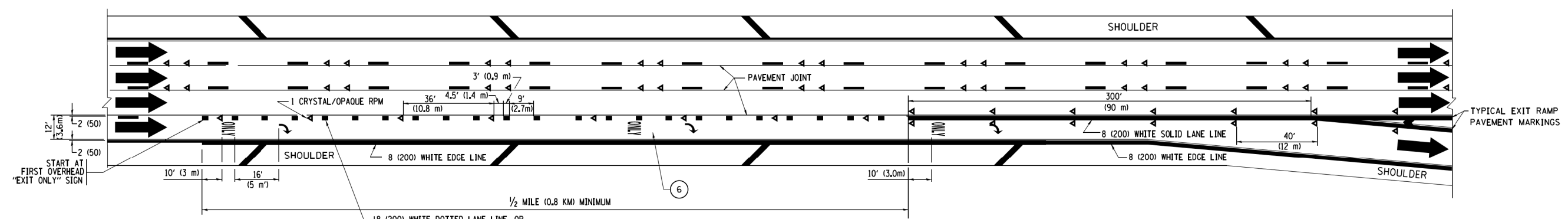
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2018-132-I	WILL	29	21
TC-08		CONTRACT NO. 62H55		
ILLINOIS FED. AID PROJECT				



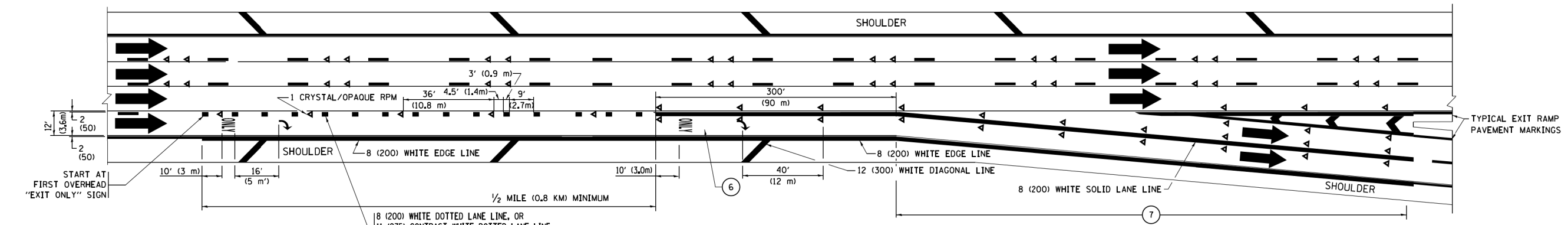
AUXILIARY LANE MARKINGS



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.

MODEL: Default
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 DATE: 9/6/2017

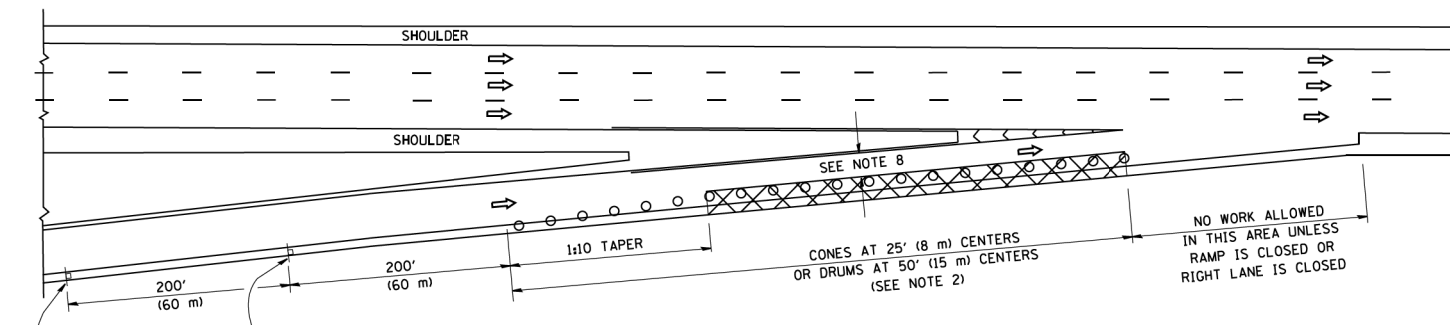
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		DATE - 01-90	REVISED - S.P.B. 01-10
			REVISED - M.D. 09-17

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

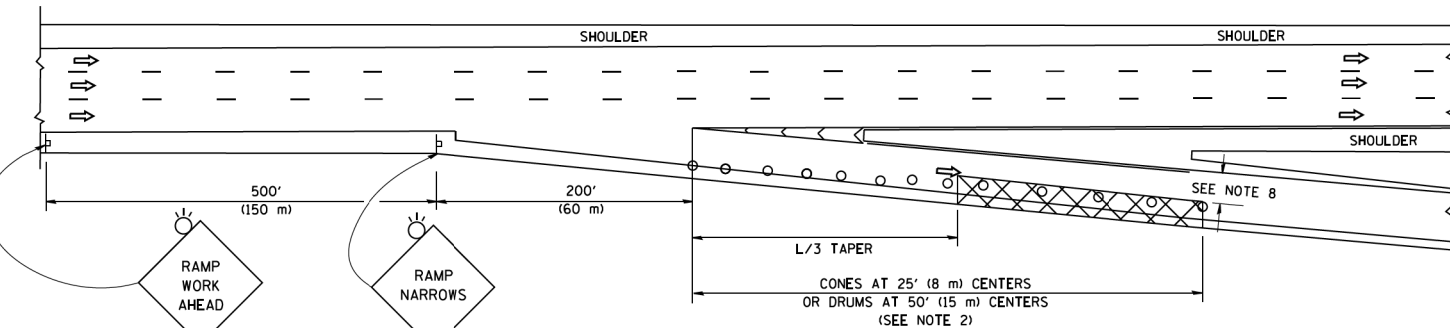
MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS			
SCALE: NONE	SHEET 2	OF 2 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2018-132-4	WILL	29	23
TC-12		CONTRACT NO. 62H55		
ILLINOIS FED. AID PROJECT				

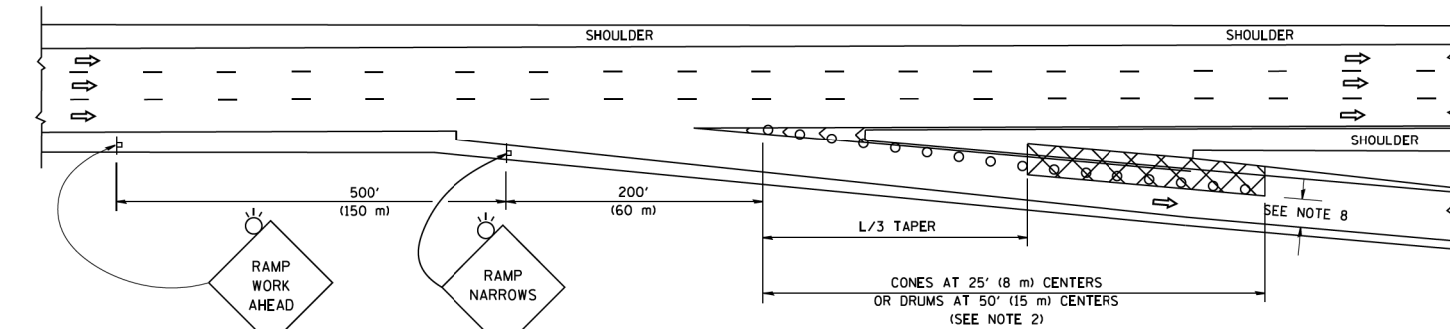
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

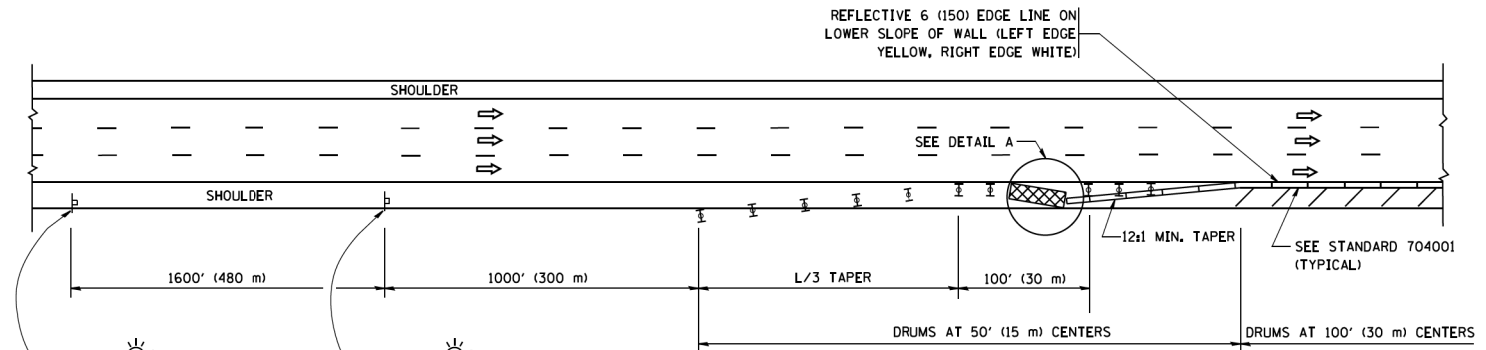
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

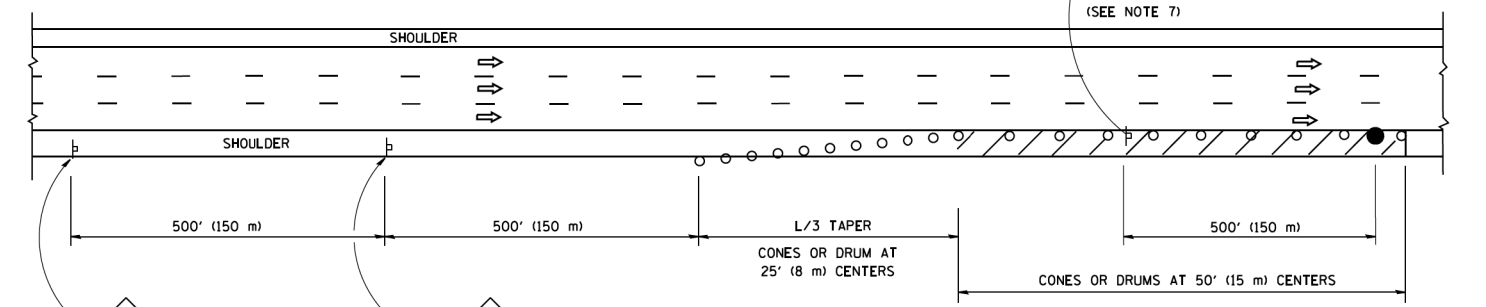
1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER	METRIC ENGLISH 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.
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 ACTIVITY REQUIRES FREQUENT ENCROACHMENT 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.

SHOULDER CLOSURE DETAILS

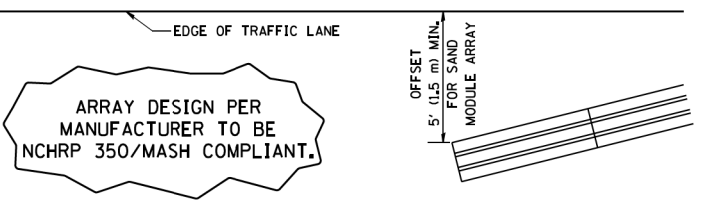


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

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



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

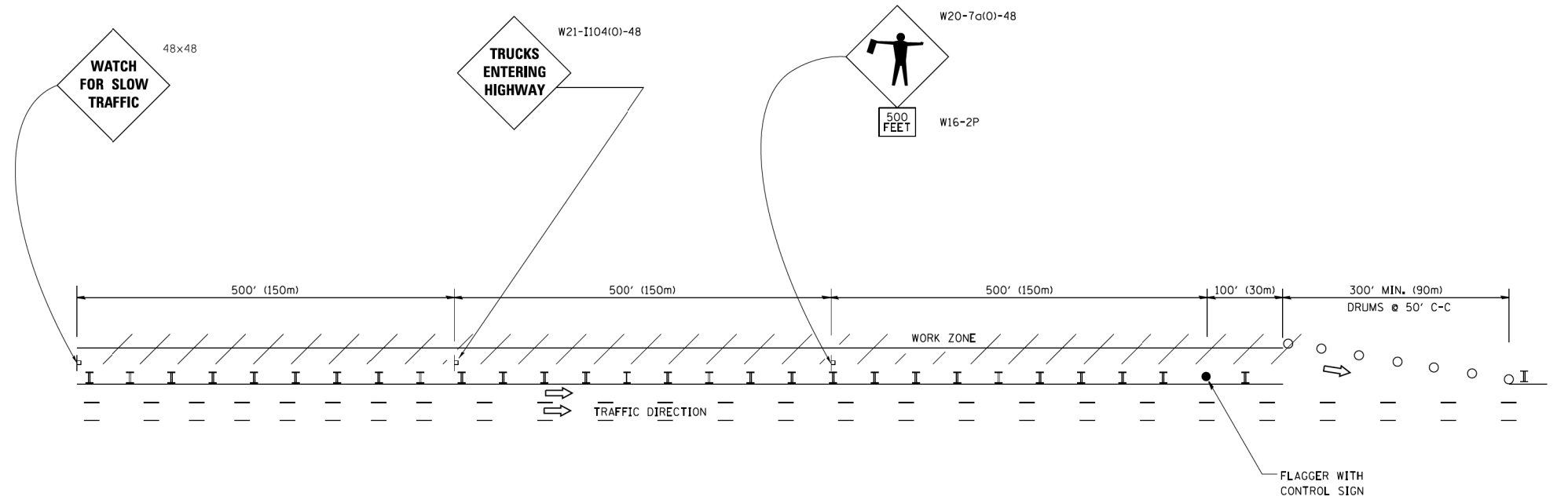
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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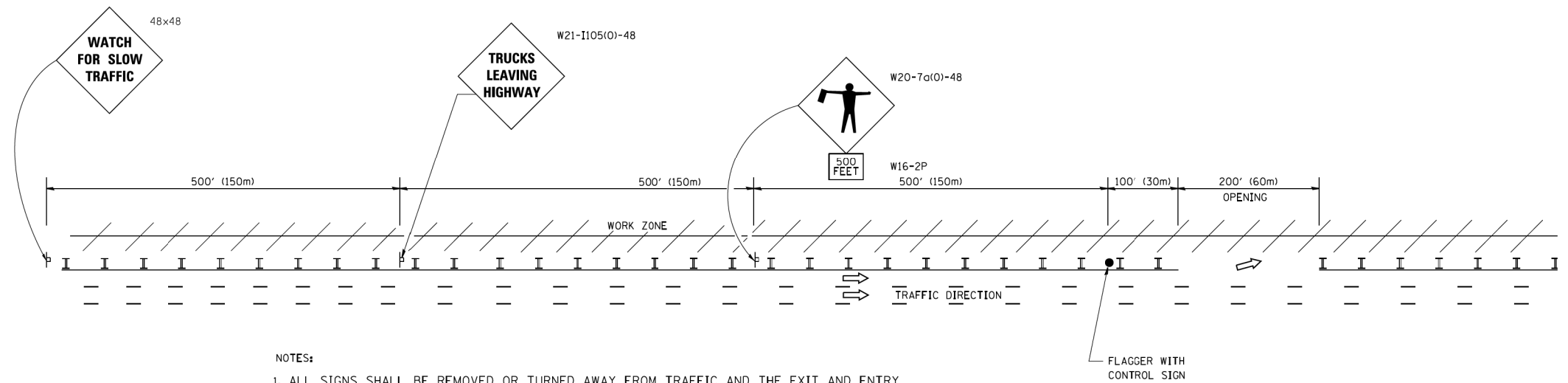
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		DRAWN -	REVISED - S.P.B. 12-09			80	2018-132-I	WILL	29	24	
		CHECKED -	REVISED - M.D. 06-13			TC-17		CONTRACT NO. 62H55			
		DATE - 11-96	REVISED - M.D. 01-18			SCALE: NONE		SHEET 1 OF 1 SHEETS		STA. TO STA.	
						ILLINOIS FED. AID PROJECT					

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 RAMP.
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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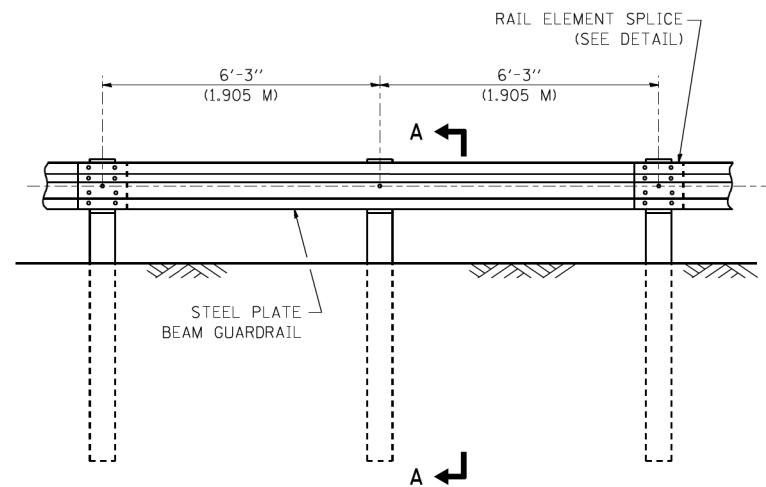
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PLOT DATE = 7/8/2013		DATE -	REVISED - M.D. 06-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

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

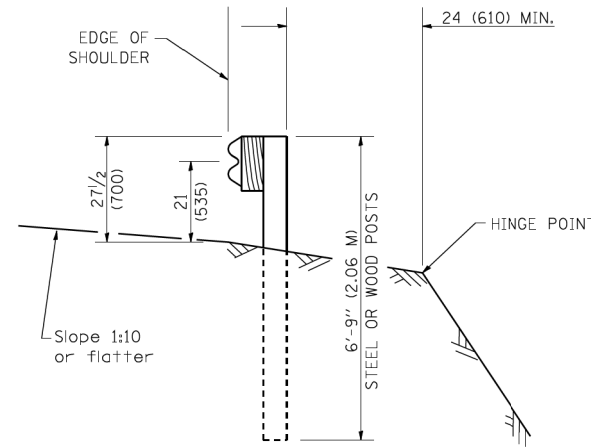
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



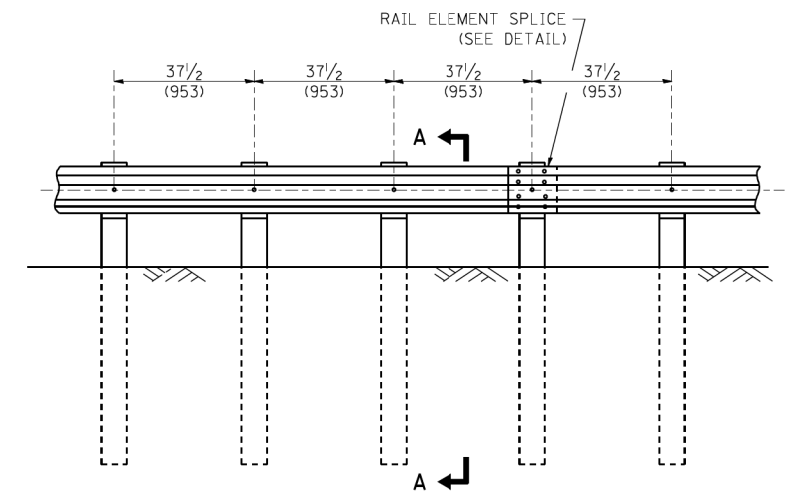
ELEVATION

TYPE A

6'-3" (1.905 M) TYPICAL POST SPACING



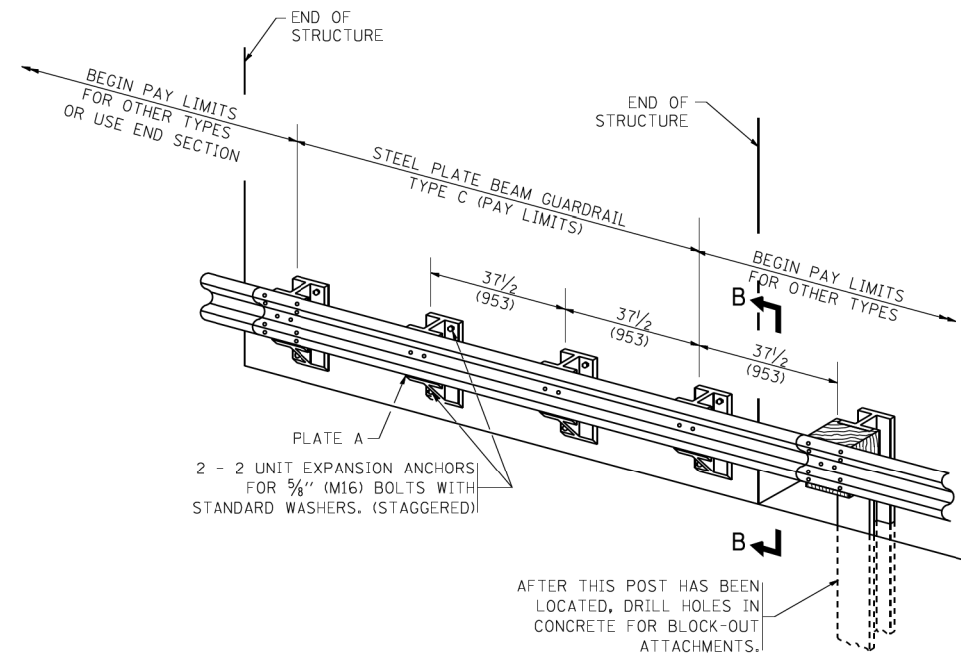
SECTION A-A



ELEVATION

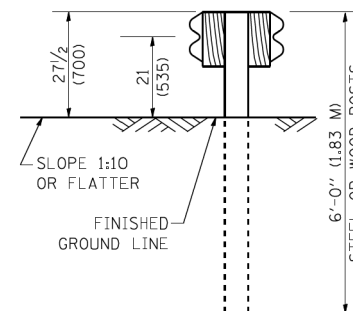
TYPE A

37 1/2 (953) CLOSED POST SPACING

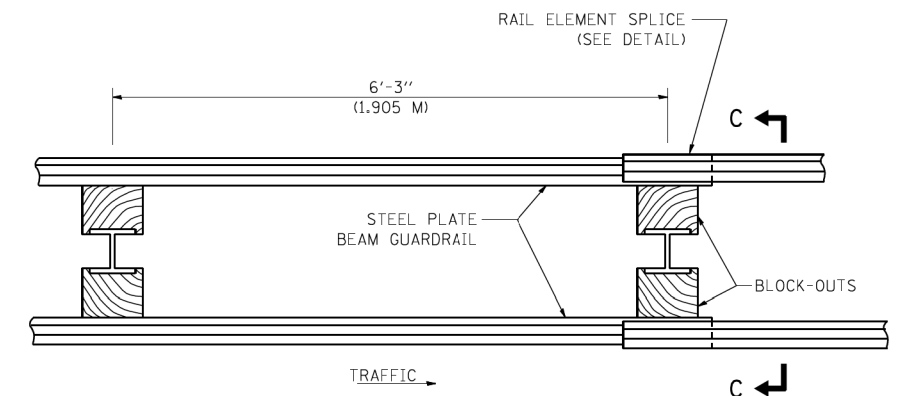


TYPE C

37 1/2 (953) BLOCK-OUT SPACING



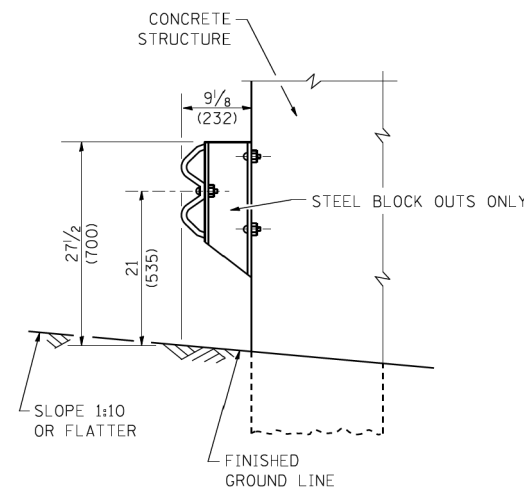
SECTION C-C



PLAN

TYPE D

DOUBLE STEEL PLATE BEAM GUARDRAIL
6'-3" (1.905 M) TYPICAL POST SPACING



SECTION B-B

GENERAL NOTES

ALL SLOPE RATIOS ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).

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

THE EXISTING STEEL POSTS MAY BE DRILLED TO MATCH THE BOLT PATTERN SHOWN HEREIN FOR THE WOOD BLOCK-OUT, OR A NEW STEEL POST SHALL BE PROVIDED.

THIS DETAIL IS APPLICABLE TO THE GUARDRAIL SYSTEM USED PRIOR TO JANUARY 1, 2007. FOR DETAILS ON THE MIDWEST GUARDRAIL SYSTEM, SEE STANDARD 630001.

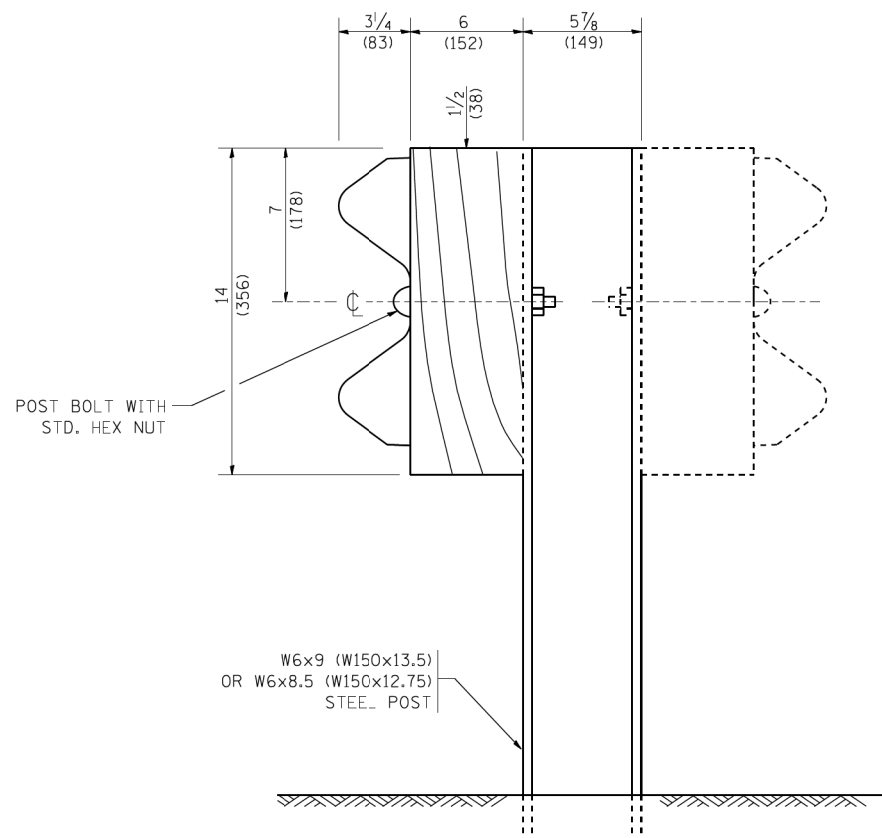
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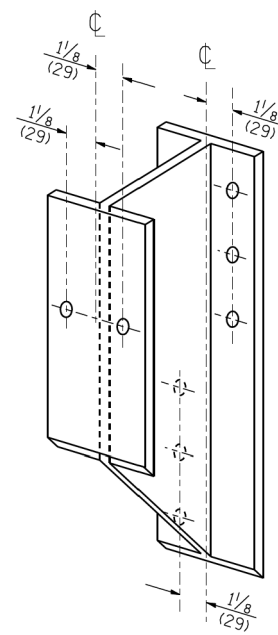
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL			
SCALE: NONE	SHEET NO. 1 OF 4 SHEETS	STA.	TO STA.

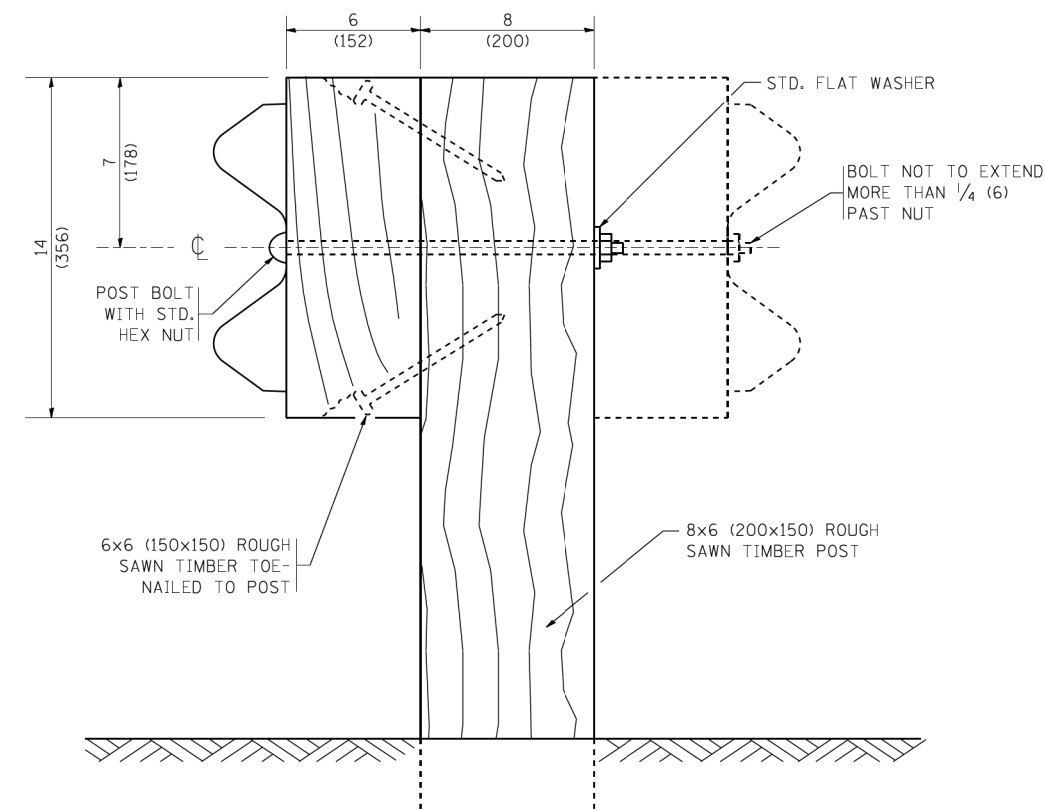
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



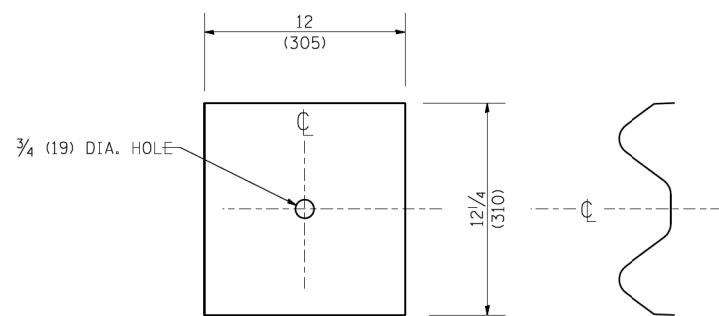
STEEL POST CONSTRUCTION



STEEL BLOCK-OUT DETAIL



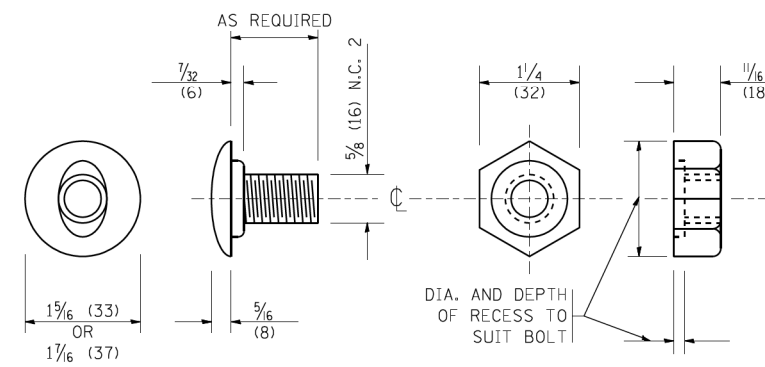
WOOD POST CONSTRUCTION



NOTE:

PLATE A SHALL BE PLACED BETWEEN RAIL ELEMENT AND BLOCK-OUT AT NON-SPLICE MOUNTING POINTS ONLY WHEN STEEL BLOCK-OUTS ARE USED.

PLATE A



POST OR SPLICE BOLT & NUT

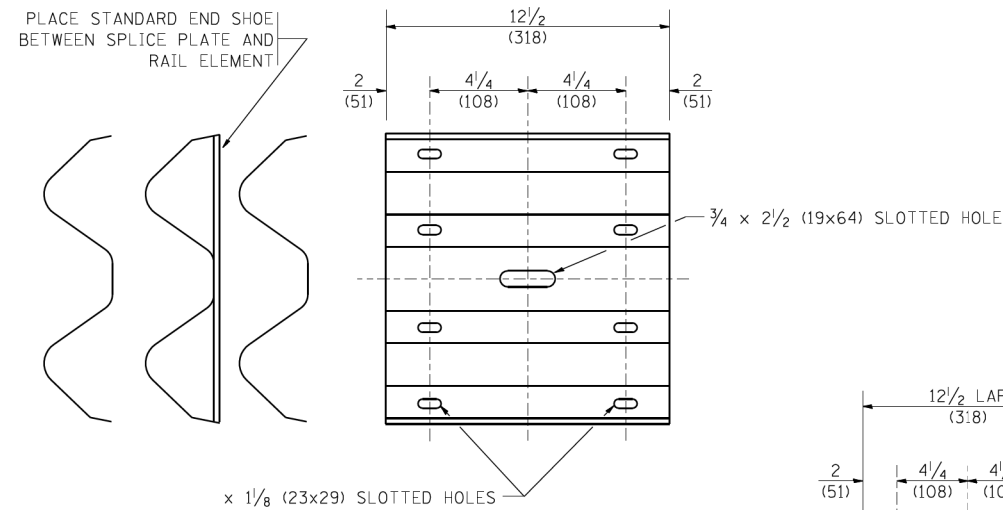
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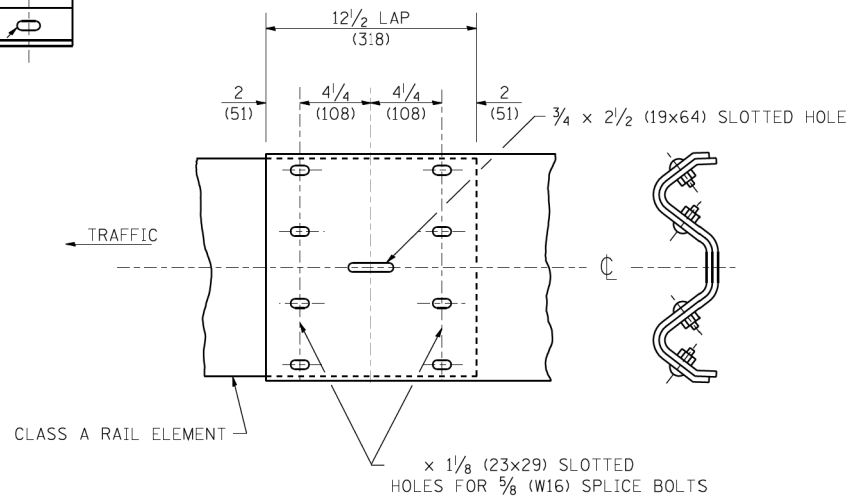
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL		SCALE: NONE	SHEET NO. 2 OF 4 SHEETS	STA.	TO STA.
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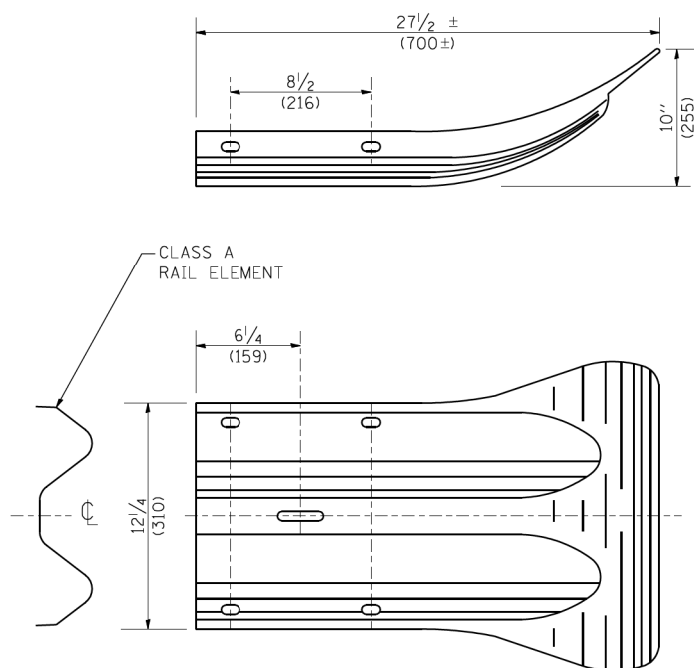
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BM-21		CONTRACT NO. 62H55		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



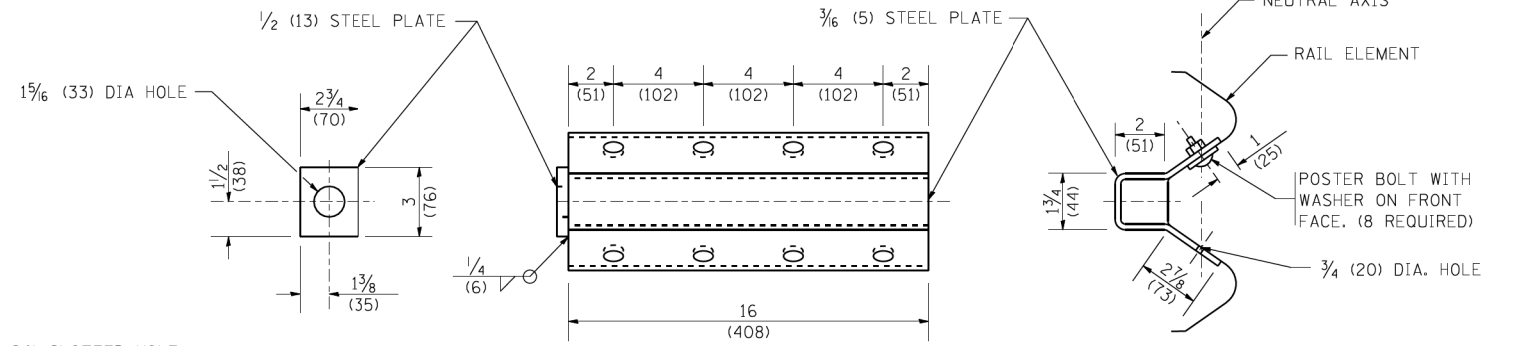
SPLICE PLATE



RAIL ELEMENT SPLICE



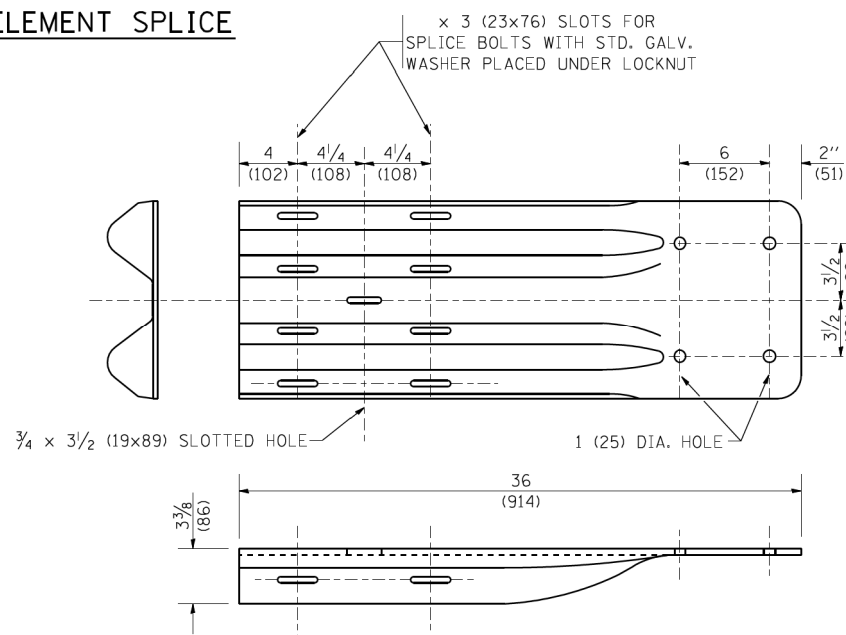
END SECTION



NOTE:

ANCHOR PLATE T SHALL BE USED TO ATTACH CABLE ASSEMBLY TO GUARDRAIL WHEN REQUIRED ON TRAFFIC BARRIER TERMINALS.

ANCHORE PLATE T DETAILS



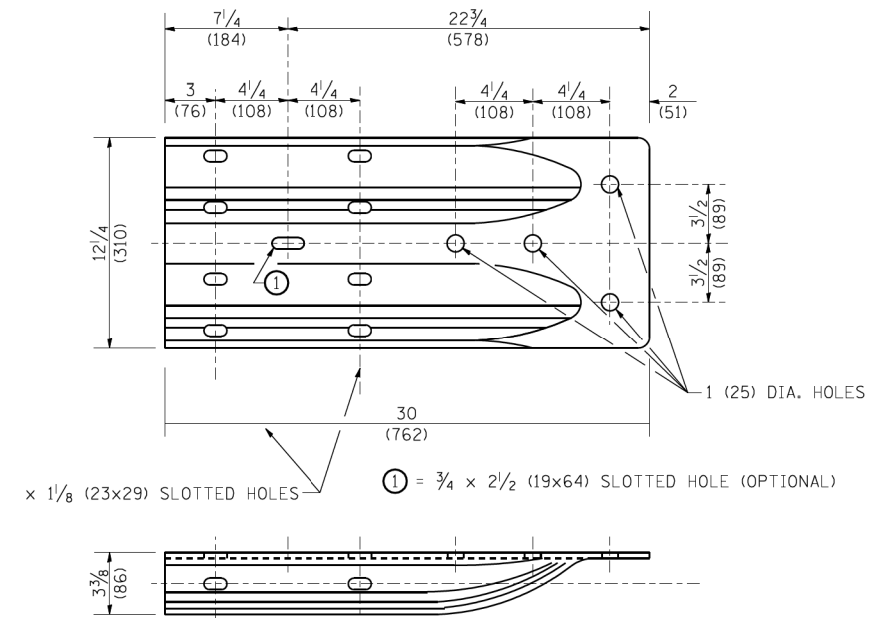
END SHOE

NOTE:

WHEN END SHOE IS ATTACHED TO A BRIDGE PARAPET WHICH HAS AN EXPANSION JOINT, THE BOLTS SHALL BE PROVIDED WITH A LOCKNUT OR DOUBLE NUT AND SHALL BE TIGHTENED ONLY TO A POINT THAT WILL ALLOW GUARDRAIL MOVEMENT.

THE STANDARD END SHOE SHALL BE ATTACHED TO THE CONCRETE WITH PRE-DRILLED OR SELF-DRILLING ANCHOR BOLTS. THE ANCHOR CONE SHALL BE SET FLUSH WITH THE SURFACE OF THE CONCRETE.

EXTERNALLY THREADED STUDS PROTRUDING FROM THE SURFACE OF THE CONCRETE WILL NOT BE PERMITTED.



ALTERNATE END SHOE

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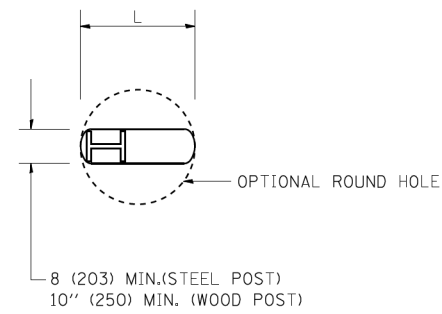
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CHECKED -	REVISD -
DATE -	REVISD -

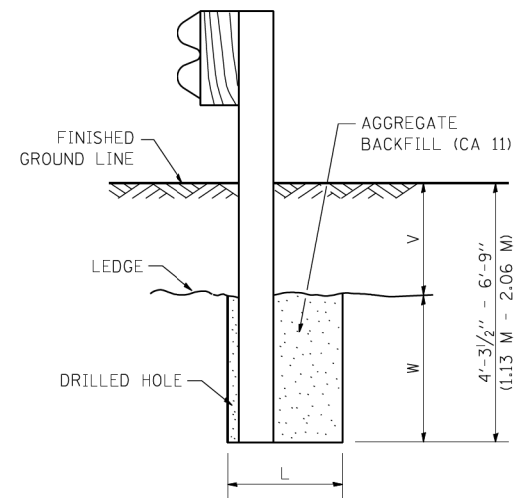
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVE AND REERECT	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STEEL PLATE BEAM GUARDRAIL	80	2018-132-I	WILL	29	28
		BM-21			CONTRACT NO. 62H55
	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SCALE: NONE	SHEET NO. 3 OF 4 SHEETS	STA.	TO STA.
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PLAN

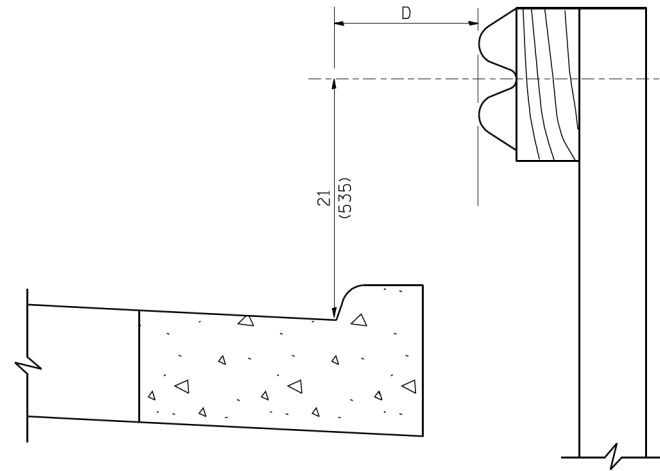


NOTE:

LEGE LINE IS TOP OF ROCK
LEGE OR HARD SLAG FILL.

ELEVATION

**FOOTING FOR POST WHEN IMPERVIOUS
MATERIAL IS ENCOUNTERED**



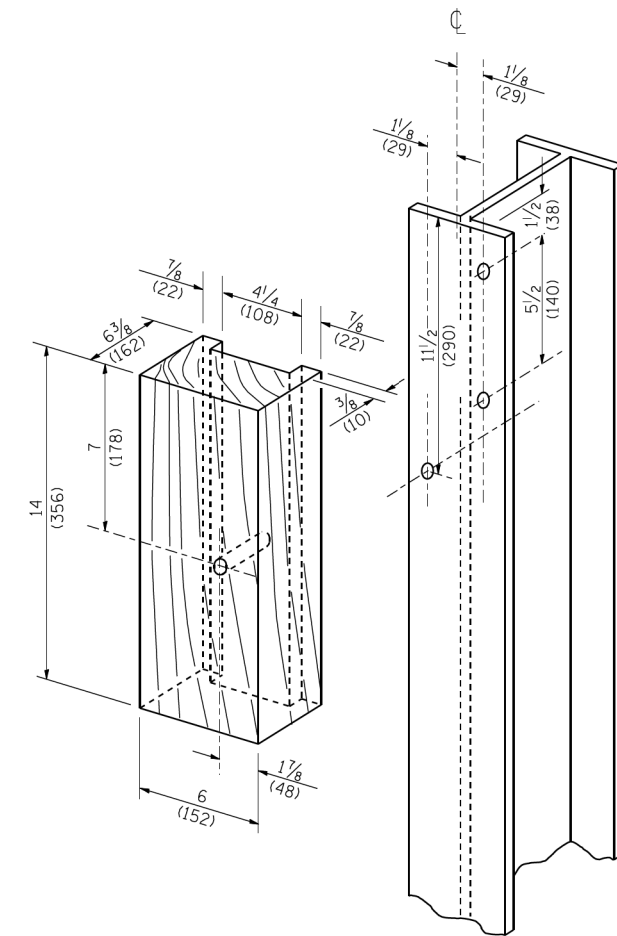
NOTE:

IF IT IS NECESSARY FOR D TO BE MORE THAN 12 (300) AND LESS THAN 10'-0" (3.0 M) TYPE M-2 (M-5) CURB AND GUTTER (STD. 606001) SHALL BE USED IN FRONT OF AND IN ADVANCE OF THE GUARDRAIL.

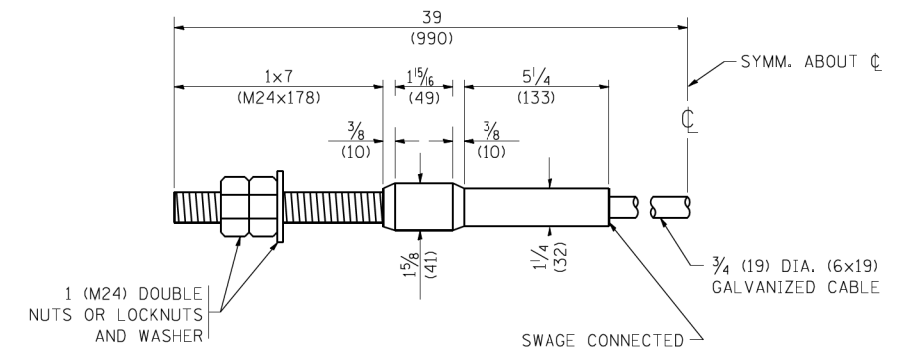
GUARDRAIL PLACED BEHIND CURB

(D = 0 DESIRABLE TO 12 (300) MAXIMUM)

V	W	L	
		STEEL POST	WOOD POST
0 - 18 (0 - 460)	24 (610)	21 (530)	23 (580)
>18 - 41.5 (> 460 - 825)	12 (305)	8 (203)	10 (250)
>41.5 - 53.5 (> 825 - 1.13 M)	12 - 0 (350 - 0)	8 (203)	10 (250)



**WOOD BLOCK-OUT AND
STEEL POST DETAILS**



CABLE ASSEMBLY

(40,000 LBS (18,100 KG) MIN. BREAKING STRENGTH)
TIGHTEN TO TAUT TENSION

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: NONE SHEET NO. 4 OF 4 SHEETS STA. TO STA.

**REMOVE AND REERECT
STEEL PLATE BEAM GUARDRAIL**

F.A. I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	2018-132-I	WILL	29	29
BM-21		CONTRACT NO. 62H55		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				