

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.P. ROUTE 832 (IL. RTE. 49)
SECTION D7 HMA SAFETY SHLD 2016-1
PROJECT ACHSIP-0832 (015)
SAFETY IMPROVEMENTS
CLARK AND CUMBERLAND COUNTIES

C-97-028-15

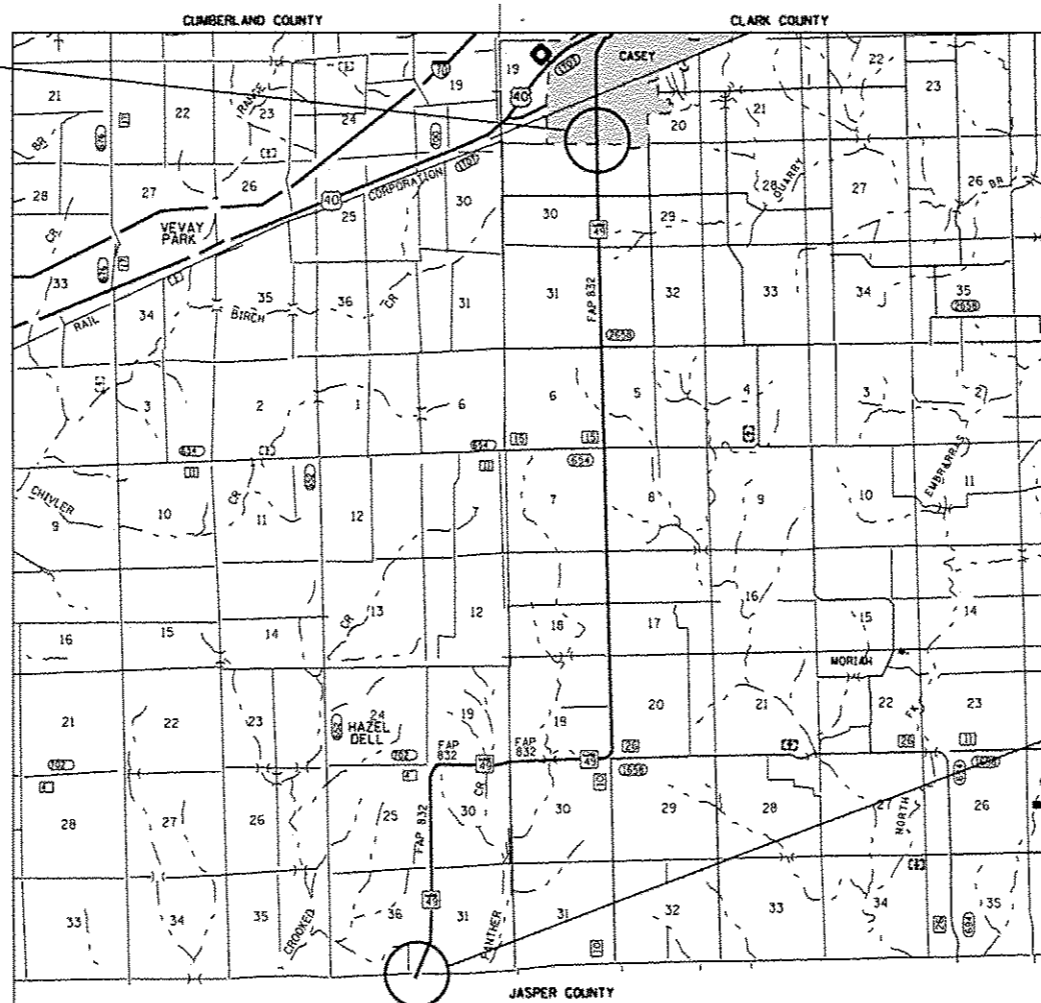
FOR INDEX OF SHEETS, SEE SHEET NO. 2

BRIDGE OMISSION:
STA 381+29.5 TO STA 382+42.5

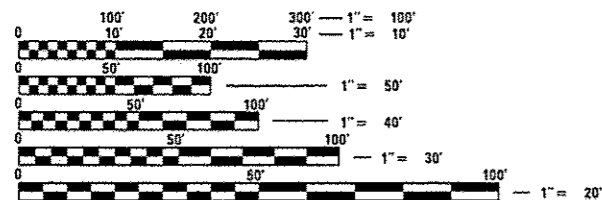
STATION EQUATION:
STA 352+98.40BK = STA 355+47.30AH
STA 447+71.40BK = STA 450+25.80AH
STA 542+43.50BK = STA 542+60.30AH

2013 ADT = 2,100

PROJECT BEGINS
STA. 30+43.6



PROJECT ENDS
STA. 553+27



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

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

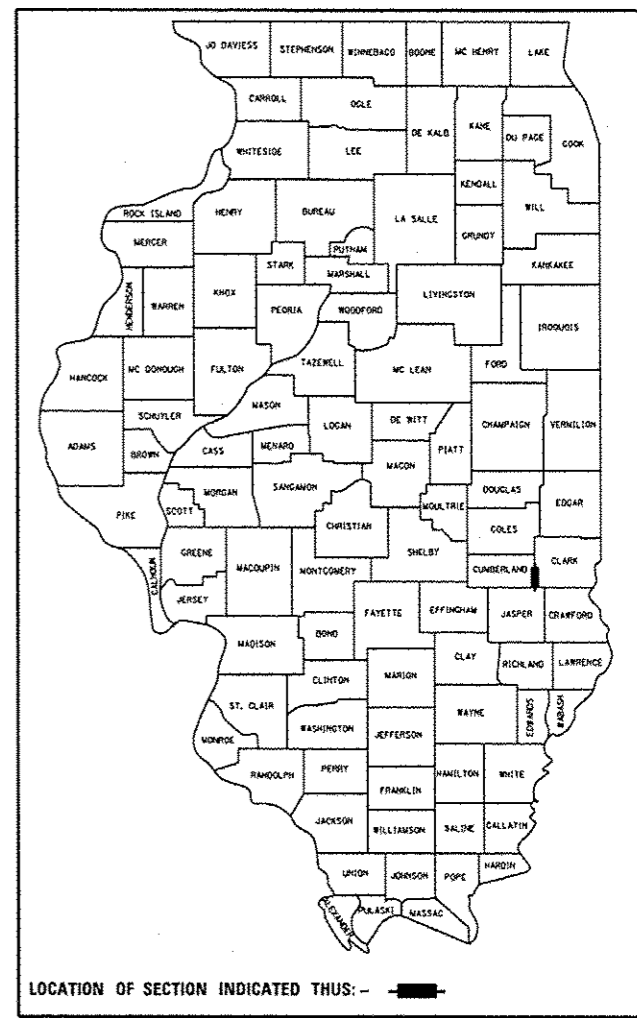
PROJECT ENGINEER: TOM ROMAN
PROJECT MANAGER: RUSS WALKER
PHONE: (217)-342-8320
CONTRACT NO. 74711

GROSS LENGTH = 51666.3 FT. = 9.785 MILE
NET LENGTH = 51553.3 FT. = 9.764 MILE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
832		ILLINOIS	29	1

CONTRACT NO. 74711
*D7 HMA SAFETY SHLD 2016-1
**CLARK, CUMBERLAND

D-97-016-15



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED August 06, 2015
Roy L. Drinell, P.E.
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
Oct 2, 2015
John D. Baranzelli, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT
Oct 2, 2015
Omer Osman, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS. THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2012; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" INDICATED ON THE CHECK SHEET, AND "THE SPECIAL PROVISIONS" INCLUDED IN THE PROPOSAL.

THE WORK INCLUDED IN THIS SECTION CONSISTS OF PLACING HMA SAFETY SHOULDERS, AGGREGATE WEDGE SHOULDERS, RUMBLE STRIPS, PAVEMENT MARKING, AND ANY OTHER WORK NECESSARY TO COMPLETE THIS SECTION.

THE CONTRACTOR SHALL PROVIDE INTERNET ACCESS TO THE HOT-MIX ASPHALT PLANT QUALITY CONTROL LAB SO THAT HOT-MIX ASPHALT PLANT REPORTS CAN BE E-MAILED TO THE DISTRICT HEADQUARTERS. THIS WORK SHALL BE INCLUDED IN THE COST OF HOT-MIX ASPHALT ITEMS.

THE MATERIAL USED FOR AGGREGATE WEDGE SHOULDER, TYPE B SHALL BE CRUSHED STONE, CRUSHED CONCRETE, OR RAP.

THE MATERIAL EXCAVATED FOR THE CONSTRUCTION OF THE HMA SHOULDERS SHALL BE REMOVED FROM THE PROJECT ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS. THE REMOVAL OF THE EXCAVATED MATERIAL SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER UNIT FOR EXCAVATING AND GRADING EXISTING SHOULDER.

HMA SHOULDERS SHALL BE OMITTED FROM LOCATIONS WHERE HMA SHOULDERS OR BASE COURSE WIDENING ALREADY EXISTS. HOWEVER, RUMBLE STRIPS SHALL BE CONSTRUCTED AT THESE LOCATIONS.

OMIT RUMBLE STRIPS ON ALL SIDEROADS, PRIVATE, AND COMMERCIAL ENTRANCES AT RADIUS RETURNS. OMIT RUMBLE STRIPS AT MAILBOX TURNOUTS 60' BOTH SIDES OF THE MAILBOX OR AS DETERMINED BY THE ENGINEER. THE 60' OMISSIONS EACH SIDE OF A MAILBOX TURNOUT WILL NOT BE MEASURED FOR PAYMENT.
OMIT HOT-MIX ASPHALT SHOULDERS, 8" ON ALL HMA AND PCC SIDEROADS, ENTRANCES, AND CONCRETE GUTTER LOCATIONS

THE TOTAL QUANTITY OF PAINT PAVEMENT MARKING - LINE 4" CONSISTS OF 92,511 FEET OF WHITE.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT:

MIXTURE USE: HMA SHOULDERS, 8" (BOTTOM 6" LIFT)
APPLICATION: HOT-MIX ASPHALT SHOULDERS
PG GRADE: PG 64-22
DESIGN AIR VOIDS: 4.0% @ NDESIGN = 30
MIXTURE COMPOSITION: IL-19.0L
FRICTION AGGREGATE: N/A

MIXTURE USE: HMA SHOULDERS, 8" (TOP 2" LIFT)
APPLICATION: HOT-MIX ASPHALT SHOULDERS
PG GRADE: PG 64-22
DESIGN AIR VOIDS: 4.0% @ NDESIGN = 30
MIXTURE COMPOSITION: IL-9.5L
FRICTION AGGREGATE: N/A

THE FOLLOWING APPLICATION RATES HAVE BEEN USED TO CALCULATE PLAN QUANTITIES:

AGGREGATE SHOULDERS 2.05 TONS/CU YD

INDEX OF SHEETS

SHEET NO.	TITLE
1	COVER SHEET
2	INDEX OF SHEETS & GENERAL NOTES
3	SUMMARY OF QUANTITIES
4-6	TYPICAL SECTIONS
7	SCHEDULE
8-25	PLAN SHEETS
26-29	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS

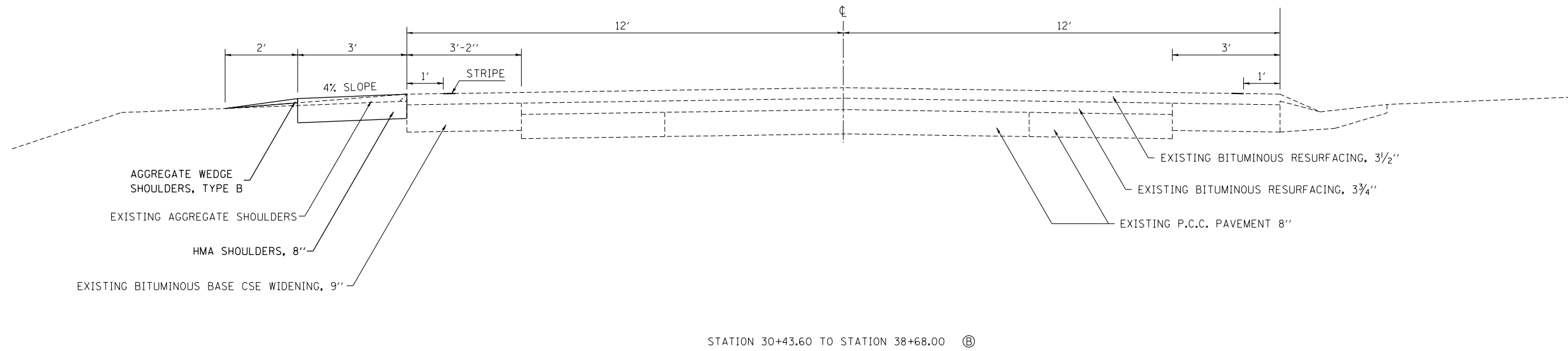
THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 29:

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND A FOOT
642006	SHOULDER RUMBLE STRIPS, 8 IN.
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS - DAY ONLY
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS >= 45 MPH
701901-04	TRAFFIC CONTROL DEVICES

*OT HMA SAFETY SHLD 2016-1
**CLARK, CUMBERLAND

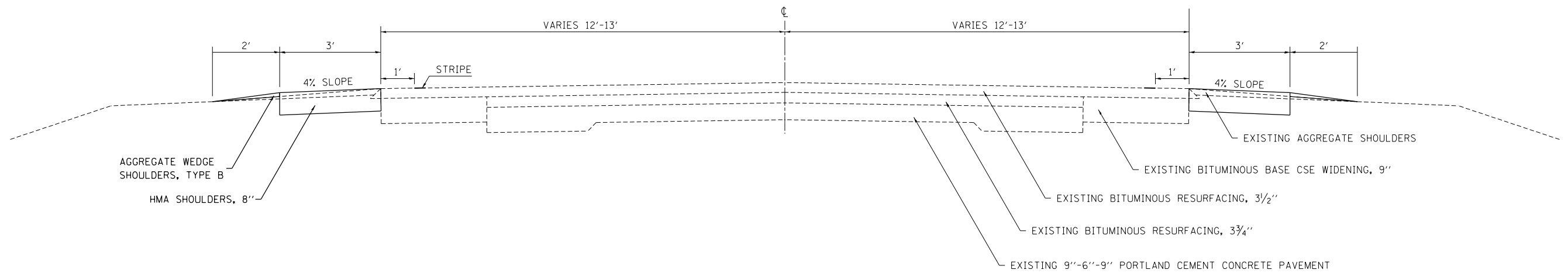
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						SCALE: N/A		SHEET 1 OF 1 SHEETS		STA. TO STA.
ILLINOIS FED. AID PROJECT CONTRACT NO. 74711										

Ⓐ **TYPICAL CROSS SECTION**
F. A. P. 832 (IL. 49)



STATION 30+43.60 TO STATION 38+68.00 Ⓑ

Ⓑ **TYPICAL CROSS SECTION**
F. A. P. 832 (IL. 49)



STATION 38+68.00 TO STATION 343+87.83 Ⓒ
 STATION 355+47.30 TO STATION 438+62.20 (HMA SHOULDER OMISSION) Ⓓ
 STATION 450+25.80 TO STATION 532+34.10 Ⓔ
 STATION 542+60.30 TO STATION 553+27 (RT)
 STATION 542+60.30 TO STATION 553+21 (LT)

HMA SHOULDER OMISSION:
 STATION 379+03 TO STATION 384+57 RT
 STATION 379+03 TO STATION 384+57 LT

•D7 HMA SAFETY SHLD 2016-1
 ••CLARK, CUMBERLAND

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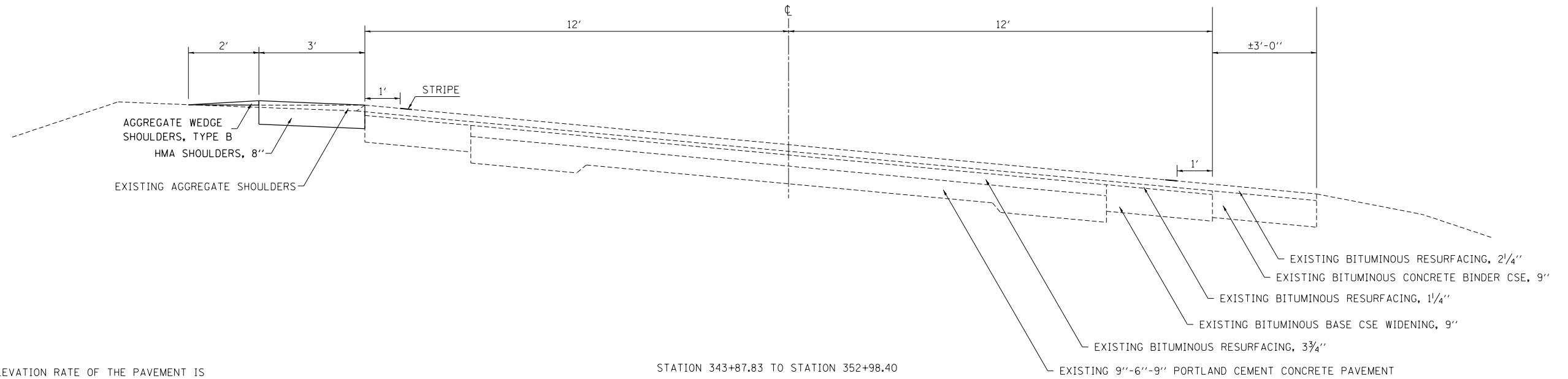
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

SCALE: N/A SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
832	.	**	29	4
			CONTRACT NO. 74711	
ILLINOIS FED. AID PROJECT				

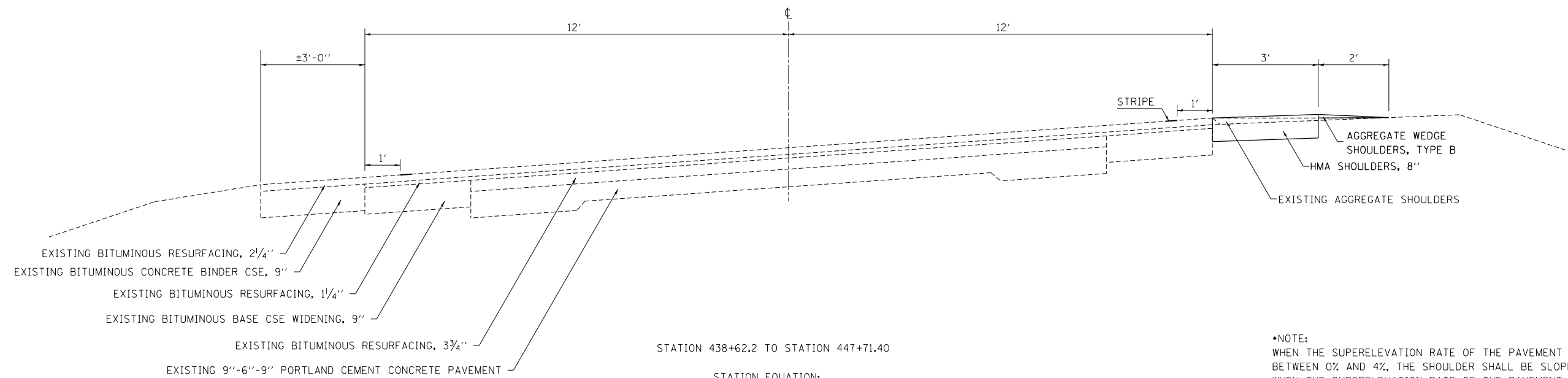
© **TYPICAL CROSS SECTION**
F. A. P. 832 (IL. 49)



•NOTE:
 WHEN THE SUPERELEVATION RATE OF THE PAVEMENT IS BETWEEN 0% AND 4%, THE SHOULDER SHALL BE SLOPED AT 4%.
 WHEN THE SUPERELEVATION RATE OF THE PAVEMENT EXCEEDS 4%, THE SHOULDER SHALL BE SLOPED SO THAT THE ALGEBRAIC DIFFERENCE BETWEEN PAVEMENT AND SHOULDER WILL NOT BE GREATER THAN 8%.

STATION 343+87.83 TO STATION 352+98.40
 STATION EQUATION:
 STATION 352+98.40 BK = STATION 355+47.30 AH ©

© **TYPICAL CROSS SECTION**
F. A. P. 832 (IL. 49)



•NOTE:
 WHEN THE SUPERELEVATION RATE OF THE PAVEMENT IS BETWEEN 0% AND 4%, THE SHOULDER SHALL BE SLOPED AT 4%.
 WHEN THE SUPERELEVATION RATE OF THE PAVEMENT EXCEEDS 4%, THE SHOULDER SHALL BE SLOPED SO THAT THE ALGEBRAIC DIFFERENCE BETWEEN PAVEMENT AND SHOULDER WILL NOT BE GREATER THAN 8%.

STATION 438+62.2 TO STATION 447+71.40
 STATION EQUATION:
 STATION 447+71.40 BK = STATION 450+25.80 AH ©

•D7 HMA SAFETY SHLD 2016-1
 •CLARK, CUMBERLAND

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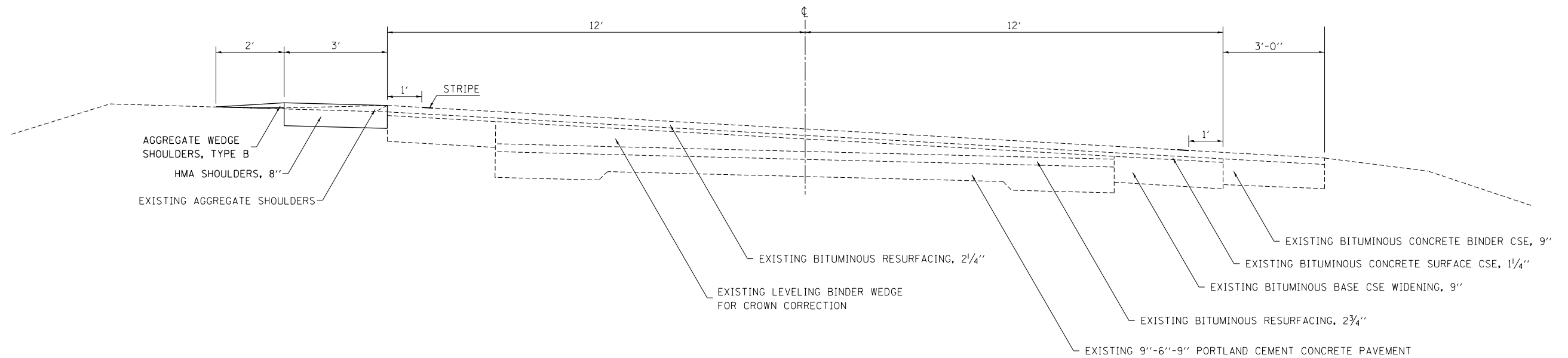
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
832	.	**	29	5
CONTRACT NO. 74711				
ILLINOIS FED. AID PROJECT				

Ⓔ **TYPICAL CROSS SECTION**
F. A. P. 832 (IL. 49)



•NOTE:
 WHEN THE SUPERELEVATION RATE OF THE PAVEMENT IS BETWEEN 0% AND 4%, THE SHOULDER SHALL BE SLOPED AT 4%.
 WHEN THE SUPERELEVATION RATE OF THE PAVEMENT EXCEEDS 4%, THE SHOULDER SHALL BE SLOPED SO THAT THE ALGEBRAIC DIFFERENCE BETWEEN PAVEMENT AND SHOULDER WILL NOT BE GREATER THAN 8%.

STATION 532+34.10 TO STATION 542+43.50

STATION EQUATION:

STATION 542+43.50 BK = STATION 542+60.30 AH Ⓔ

•D7 HMA SAFETY SHLD 2016-1
 •CLARK, CUMBERLAND

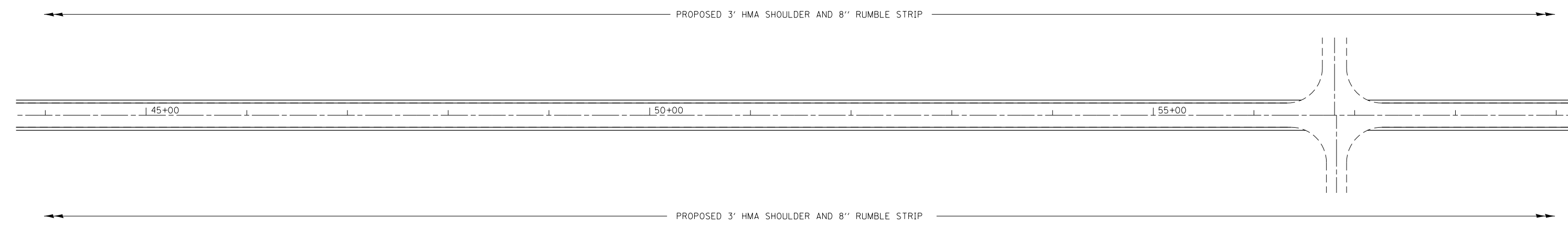
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	PLOT DATE = 8/6/2015	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

SCHEDULE OF QUANTITIES - CLARK COUNTY								
			20200600	48102100	48203029	64200108	78001110	DESCRIPTION
			EXCAVATING AND GRADING EXISTING SHOULDER	AGGREGATE WEDGE SHOULDER	HOT-MIX ASPHALT SHOULDERS, 8"	SHOULDER RUMBLE STRIP, 8"	PAINT PAVEMENT MARKING LINE, 4 INCH	
Right Shoulder			QUANTITY (UNIT)	QUANTITY (TON)	QUANTITY (SQ YD)	QUANTITY (FOOT)	QUANTITY (FOOT)	
30+43.60	38+68.00	824.40						OMISSION EXISTING V-GUTTER
38+68.00	343+87.83	30519.83	284.7	717.0	9489.9	27674.8	28329.8	EXISTING AGG. SHOULDER
343+87.83	352+98.40	910.57		23.0		910.6		EXISTING HMA SHOULDER - CURVE 1
352+98.40	355+47.30	248.90						STATION EQUATION
355+47.30	379+03.00	2355.70	22.2	56.3	741.6	2151.7	2224.7	EXISTING AGG. SHOULDER
379+03.00	384+57.00	554.00	0.0			255.0		EXISTING HMA SHOULDER - BRIDGE
384+57.00	402+35.40	1778.40	16.2	40.0	539.5	1395.4	1580.4	EXISTING AGG. SHOULDER
SUB TOTALS			323.1	836.3	10771.0	32387.5	32134.9	

SCHEDULE OF QUANTITIES - CLARK COUNTY								
Left Shoulder			QUANTITY (UNIT)	QUANTITY (TON)	QUANTITY (SQ YD)	QUANTITY (FOOT)	QUANTITY (FOOT)	DESCRIPTION
30+43.60	352+98.40	32254.80	302.6	765.8	10085.6	30932.8	30256.8	EXISTING AGG. SHOULDER
352+98.40	355+47.30							STATION EQUATION
355+47.30	379+03.00	2355.70	22.9	58.0	764.2	2355.7	2292.7	EXISTING AGG. SHOULDER
379+03.00	384+57.00	554.00				411.0		EXISTING HMA SHOULDER - BRIDGE
384+57.00	402+35.40	1778.40	16.5	41.8	550.8	1702.4	1652.4	EXISTING AGG. SHOULDER
SUB TOTALS			342.0	865.6	11400.6	35401.9	34201.9	
TOTALS			665	1702	22172	67789	66337	

SCHEDULE OF QUANTITIES - CUMBERLAND COUNTY								
			20200600	48102100	48203029	64200108	78001110	DESCRIPTION
			EXCAVATING AND GRADING EXISTING SHOULDER	AGGREGATE WEDGE SHOULDER	HOT-MIX ASPHALT SHOULDERS, 8"	SHOULDER RUMBLE STRIP, 8"	PAINT PAVEMENT MARKING LINE, 4 INCH	
Right Shoulder			QUANTITY (UNIT)	QUANTITY (TON)	QUANTITY (SQ YD)	QUANTITY (FOOT)	QUANTITY (FOOT)	
402+35.40	447+71.40	4536.00	39.1	97.9	1304.0	3781.0	3868.0	EXISTING AGG. SHOULDER
447+71.40	450+25.80	254.40						STATION EQUATION
450+25.80	532+34.10	8208.30	79.2	200.3	2638.4	8109.3	7915.3	EXISTING AGG. SHOULDER
532+34.10	542+43.50	1009.40		25.5		1009.4		EXISTING HMA SHOULDER - CURVE 3
542+43.50	542+60.30	16.80						STATION EQUATION
542+60.30	553+27.00	1066.70	10.7	27.0	355.6	1066.7	1066.7	EXISTING AGG. SHOULDER
SUB TOTALS			129.0	350.7	4298.0	13966.4	12850.0	

SCHEDULE OF QUANTITIES - CUMBERLAND COUNTY								
Left Shoulder			QUANTITY (UNIT)	QUANTITY (TON)	QUANTITY (SQ YD)	QUANTITY (FOOT)	QUANTITY (FOOT)	DESCRIPTION
402+35.40	438+62.20	3626.80	34.2	86.6	1139.9	3499.8	3419.8	EXISTING AGG. SHOULDER
438+62.20	447+71.40	909.20		23.0		909.2		EXISTING HMA SHOULDER - CURVE 2
447+71.40	450+25.80	254.40						STATION EQUATION
450+25.80	542+43.50	9217.70	88.7	224.5	2956.9	8875.7	8870.7	EXISTING AGG. SHOULDER
542+43.50	542+60.30	16.80						STATION EQUATION
542+60.30	553+27.00	1066.70	10.3	26.2	344.6	1060.7	1033.7	EXISTING AGG. SHOULDER
SUB TOTALS			133.2	360.3	4441.4	14345.4	13324.2	
TOTALS			262	711	8739	28312	26174	



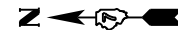
•D7 HMA SAFETY SHLD 2016-1
 ••CLARK, CUMBERLAND

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN
 SCALE: 50 SHEET 1 OF 18 SHEETS STA. 30+00 TO STA. 59+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
832	*	**	29	8
CONTRACT NO. 74711				
ILLINOIS FED. AID PROJECT				



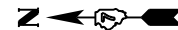
PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP

60+00

65+00

70+00

PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP



PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP

75+00

80+00

85+00

PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP

•D7 HMA SAFETY SHLD 2016-1
•CLARK, CUMBERLAND

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

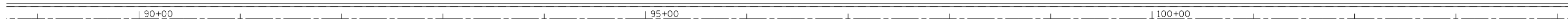
PLAN

SCALE: 50 SHEET 2 OF 18 SHEETS STA. 59+00 TO STA. 89+00

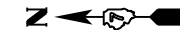
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
832	*	**	29	9
				CONTRACT NO. 74711
ILLINOIS FED. AID PROJECT				



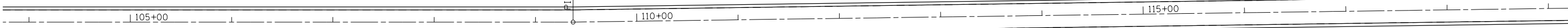
← PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP →



← PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP →



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← PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP →

•D7 HMA SAFETY SHLD 2016-1
•CLARK, CUMBERLAND

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

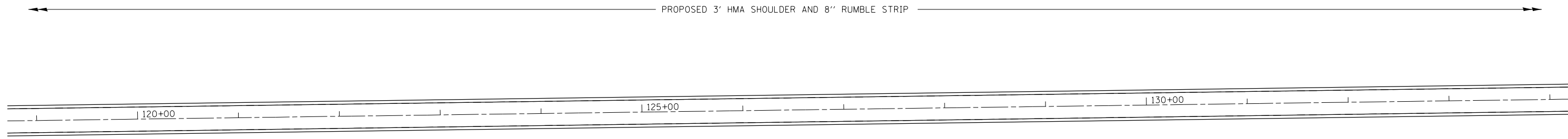
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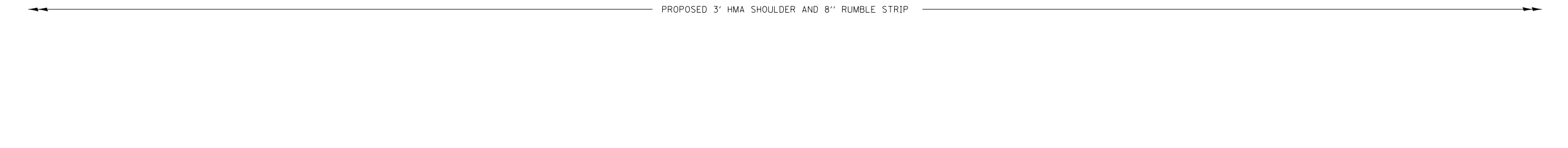
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CONTRACT NO. 74711				
ILLINOIS FED. AID PROJECT				



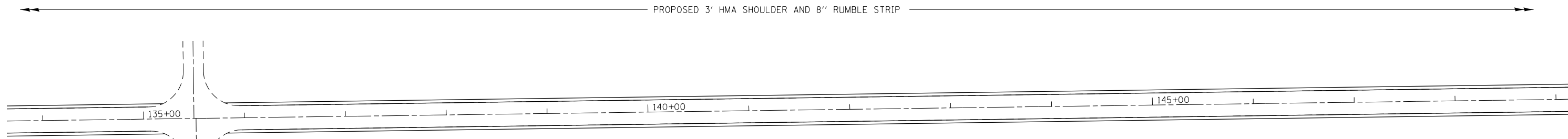
PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP



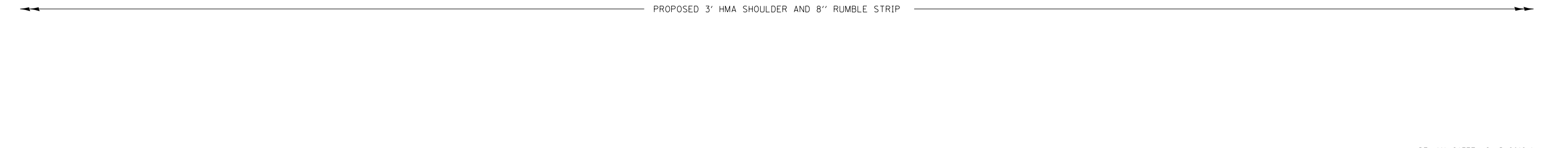
PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP



PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP



PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

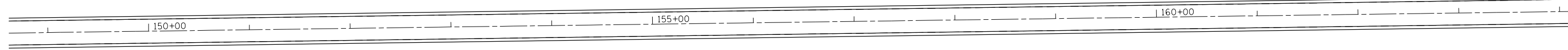
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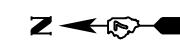
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
832	.	**	29	11
				CONTRACT NO. 74711
ILLINOIS FED. AID PROJECT				



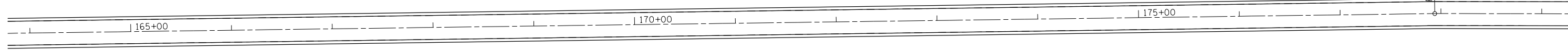
PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP



PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP



PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP



PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP

•D7 HMA SAFETY SHLD 2016-1
••CLARK, CUMBERLAND

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
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	PLOT DATE = 8/6/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

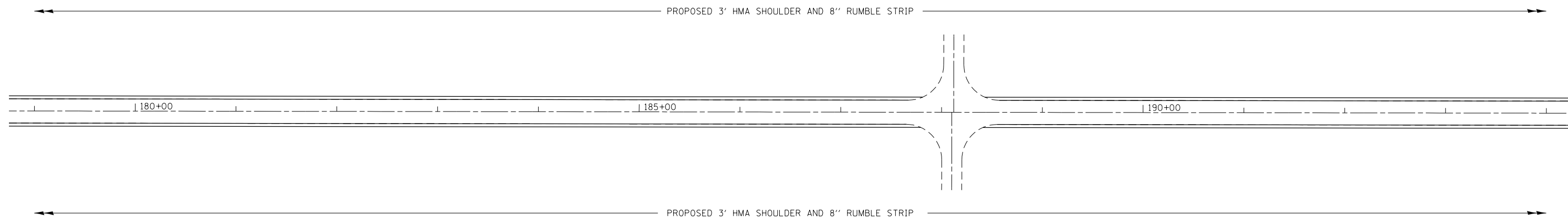
PLAN

SCALE: 50 SHEET 5 OF 18 SHEETS STA. 149+00 TO STA. 179+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
832	.	**	29	12
CONTRACT NO. 74711				
ILLINOIS FED. AID PROJECT				



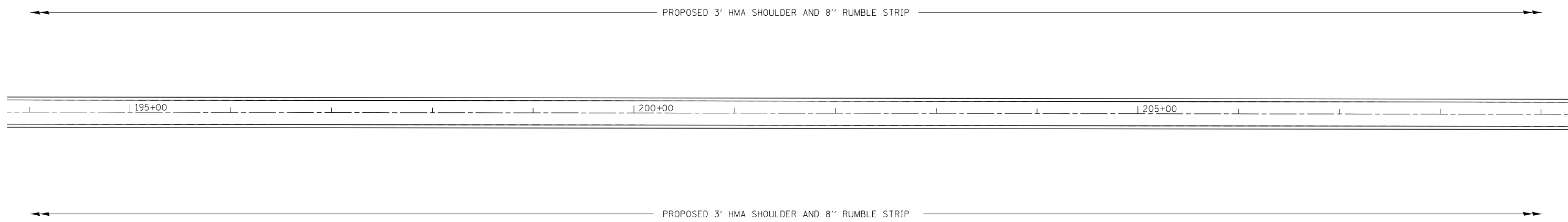
PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP



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PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP

•D7 HMA SAFETY SHLD 2016-1
••CLARK, CUMBERLAND

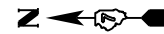
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

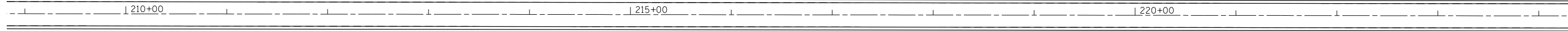
PLAN

SCALE: 50 SHEET 6 OF 18 SHEETS STA. 179+00 TO STA. 209+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
832	.	**	29	13
CONTRACT NO. 74711				
ILLINOIS FED. AID PROJECT				



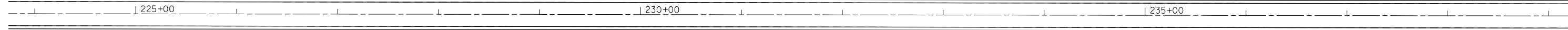
← PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP →



← PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP →



← PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP →



← PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP →

•D7 HMA SAFETY SHLD 2016-1
•CLARK, CUMBERLAND

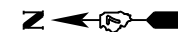
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Default	PLOT DATE = 8/6/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

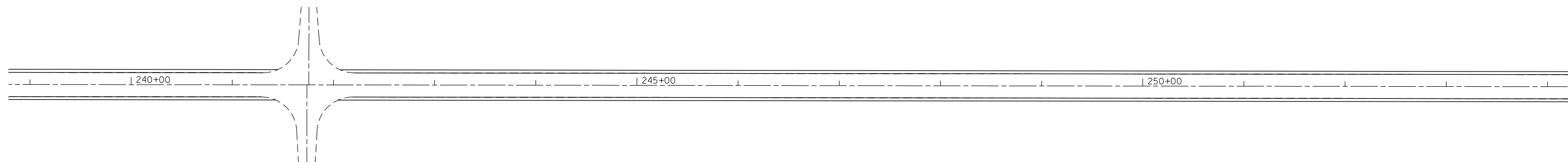
PLAN

SCALE: 50 SHEET 7 OF 18 SHEETS STA. 209+00 TO STA. 239+00

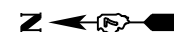
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
832	*	**	29	14
				CONTRACT NO. 74711
ILLINOIS FED. AID PROJECT				



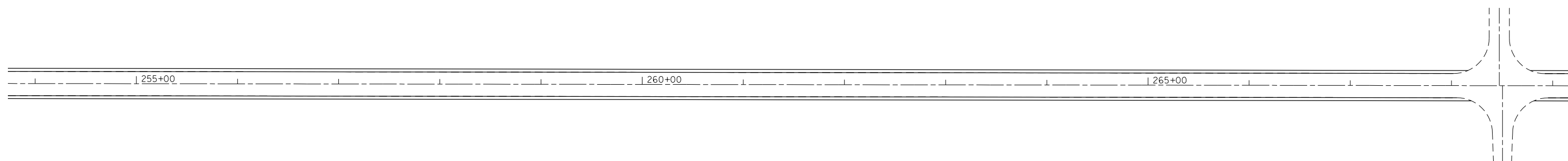
PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP



PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP



PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP



PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP

•D7 HMA SAFETY SHLD 2016-1
••CLARK, CUMBERLAND

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
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Default	PLOT DATE = 8/6/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

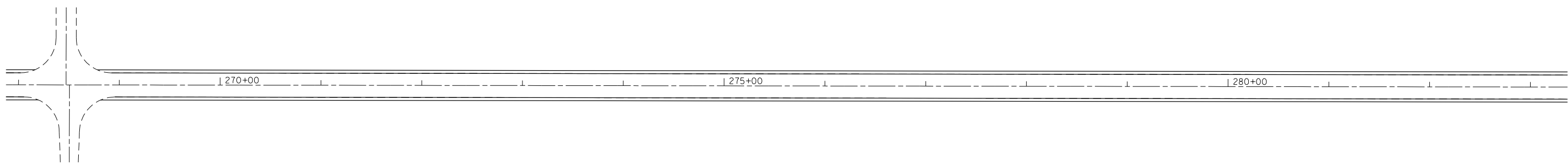
PLAN

SCALE: 50 SHEET 8 OF 18 SHEETS STA. 239+00 TO STA. 269+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
832	.	**	29	15
CONTRACT NO. 74711				
ILLINOIS FED. AID PROJECT				



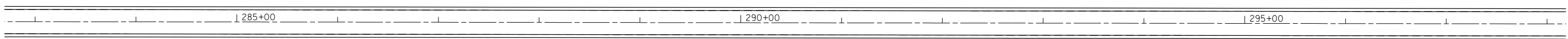
PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP



PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP



PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP



PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP

•D7 HMA SAFETY SHLD 2016-1
••CLARK, CUMBERLAND

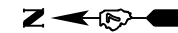
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Default	PLOT DATE = 8/6/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

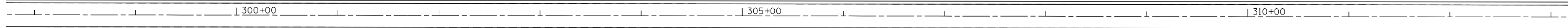
PLAN

SCALE: 50 SHEET 9 OF 18 SHEETS STA. 268+00 TO STA. 298+00

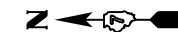
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
832	*	**	29	16
CONTRACT NO. 74711				
ILLINOIS FED. AID PROJECT				



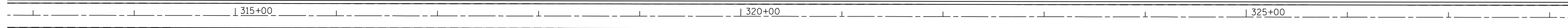
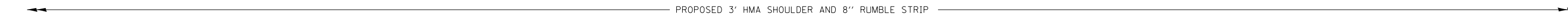
PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP



PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP



PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP



PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP



•D7 HMA SAFETY SHLD 2016-1
••CLARK, CUMBERLAND

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/6/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

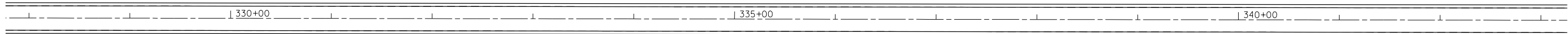
PLAN

SCALE: 50 SHEET 10 OF 18 SHEETS STA. 298+00 TO STA. 328+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
832	*	**	29	17
				CONTRACT NO. 74711
ILLINOIS FED. AID PROJECT				

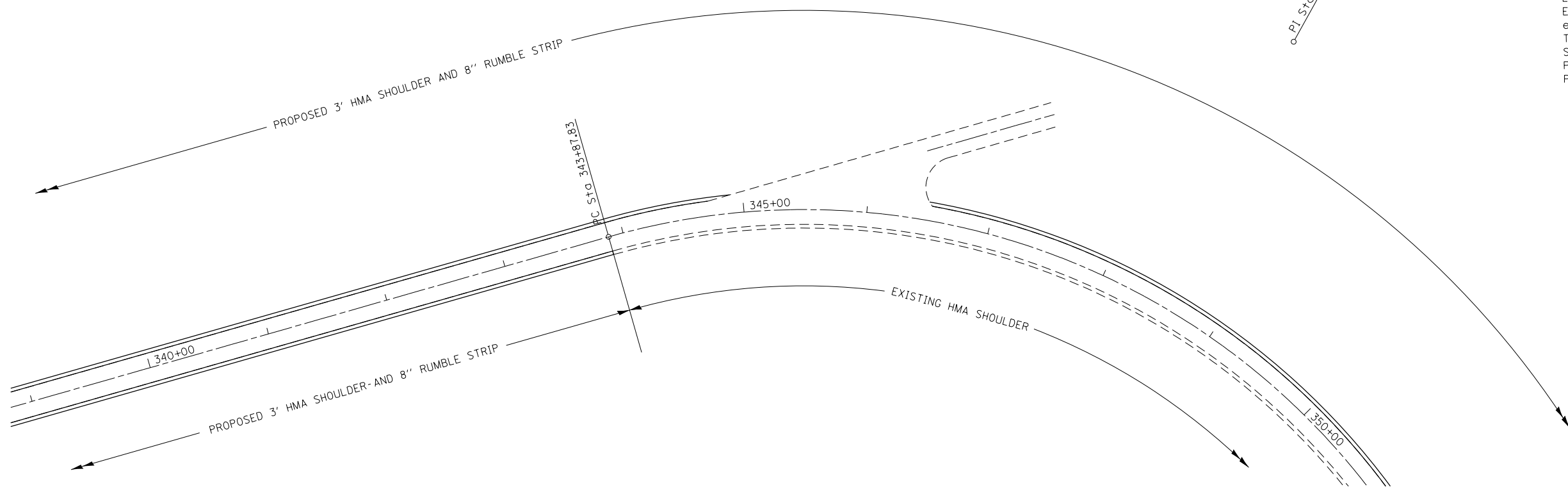


PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP



PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP

EXIST. CURVE CUR001
 PI STA. = 349+67.39
 Δ = 89° 58' 00" (RT)
 D = 9° 52' 49"
 R = 579.90'
 T = 579.56'
 L = 910.57'
 E = 239.96'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 343+87.83
 P.T. STA. = 352+98.40



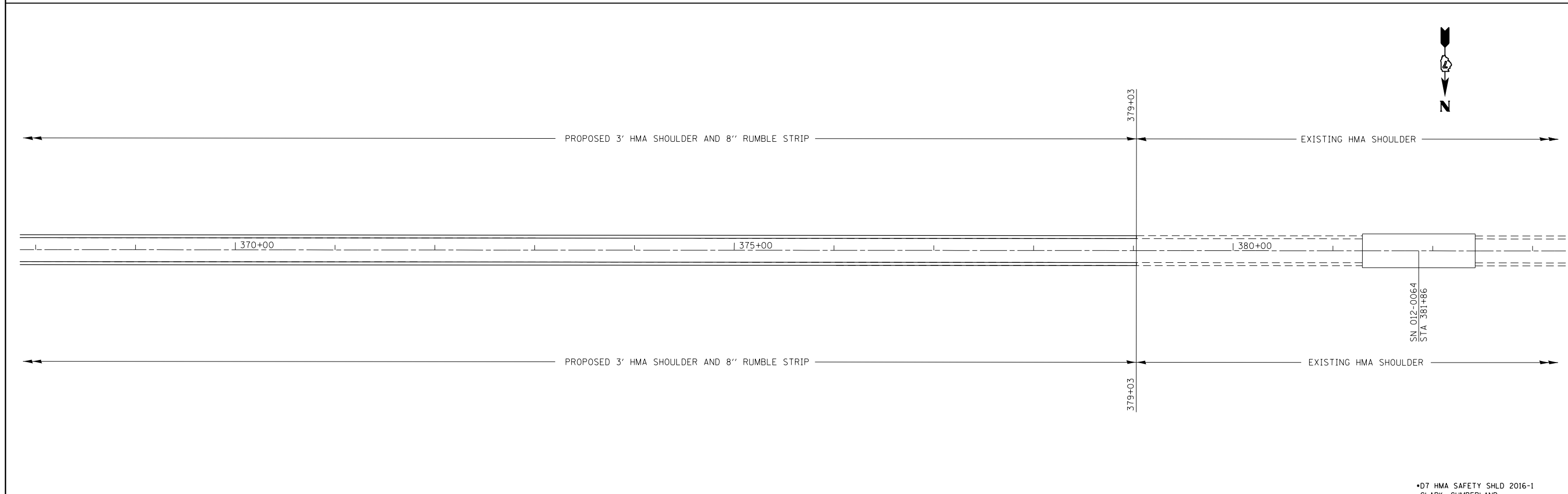
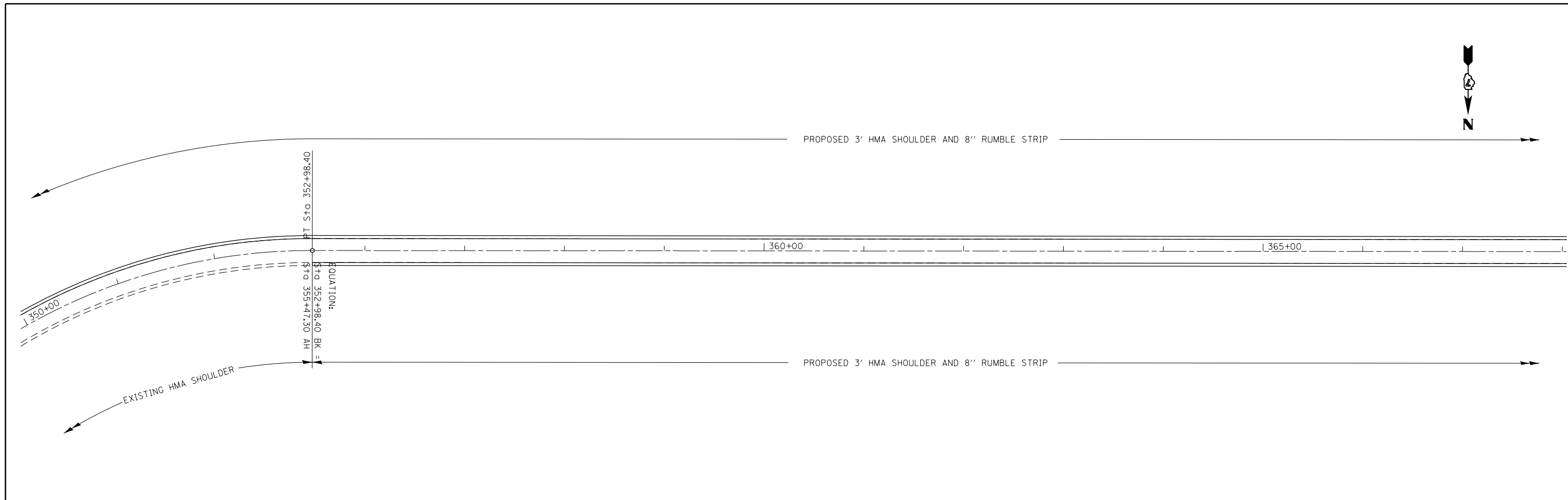
•D7 HMA SAFETY SHLD 2016-1
 ••CLARK, CUMBERLAND

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
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Default	PLOT DATE = 8/6/2015	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

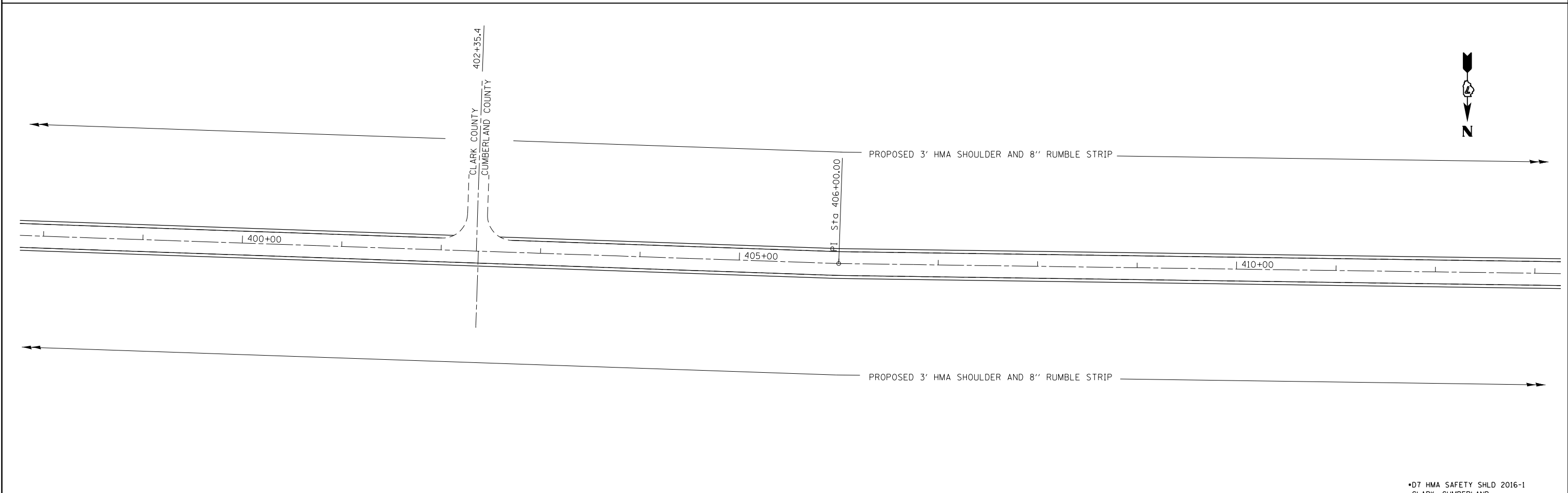
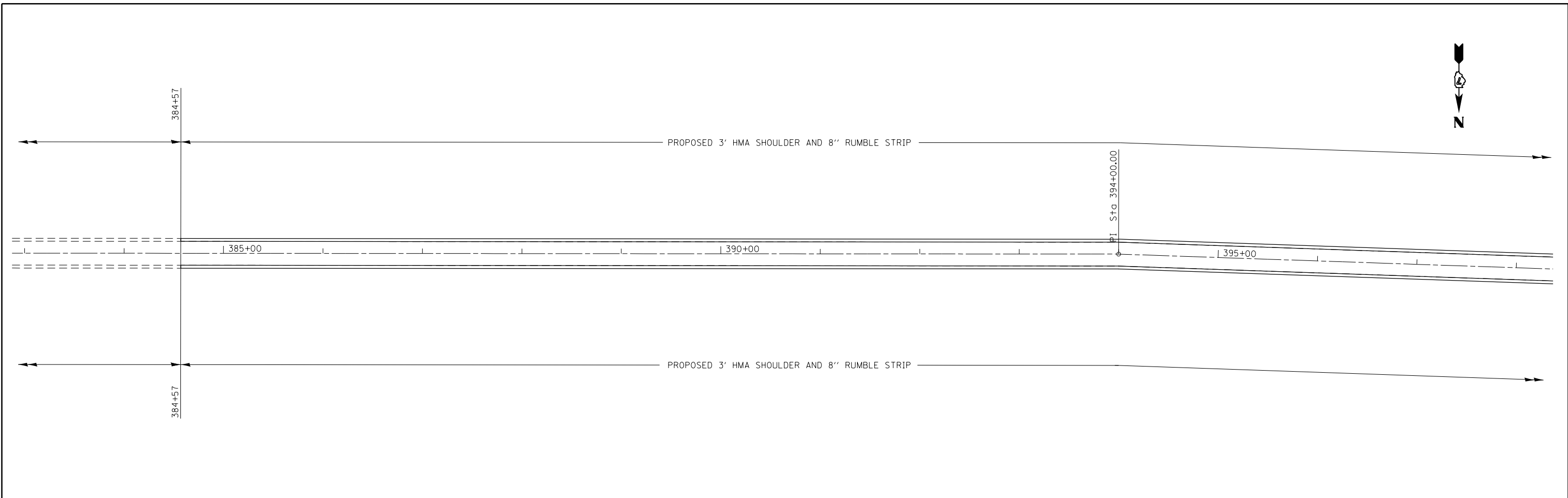
PLAN
 SCALE: 50 SHEET 11 OF 18 SHEETS STA. 328+00 TO STA. 350+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
832	*	**	29	18
CONTRACT NO. 74711				
ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -		CONTRACT NO. 74711							
	PLOT DATE = 8/6/2015				ILLINOIS FED. AID PROJECT							

•D7 HMA SAFETY SHLD 2016-1
•CLARK, CUMBERLAND

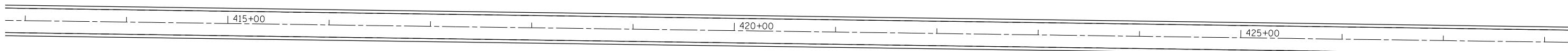


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PLOT SCALE = 100.0000' / in.				CHECKED -				REVISED -				SCALE: 50 SHEET 13 OF 18 SHEETS STA. 383+00 TO STA. 413+00												CONTRACT NO. 74711									
PLOT DATE = 8/6/2015				DATE -				REVISED -																				ILLINOIS FED. AID PROJECT					
Default																																	

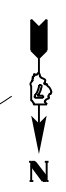
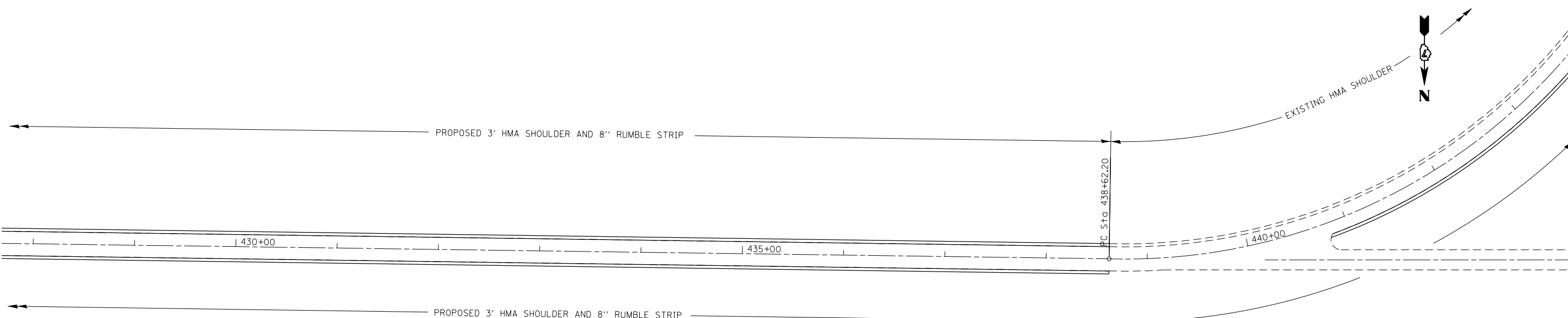
•D7 HMA SAFETY SHLD 2016-1
••CLARK, CUMBERLAND



← PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP →



← PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP →



EXIST. CURVE CUR002
 PI STA. = 444+43.98
 Δ = 90° 48' 00" (LT)
 D = 9° 59' 12"
 R = 573.72'
 T = 581.78'
 L = 909.20'
 E = 243.36'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 438+62.20
 P.T. STA. = 447+71.40

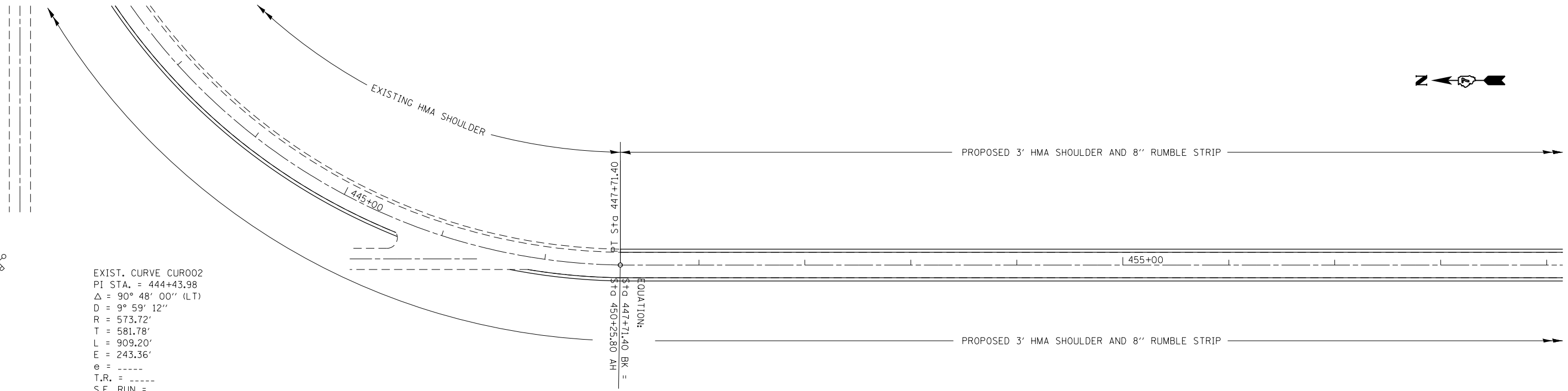
•D7 HMA SAFETY SHLD 2016-1
 •CLARK, CUMBERLAND

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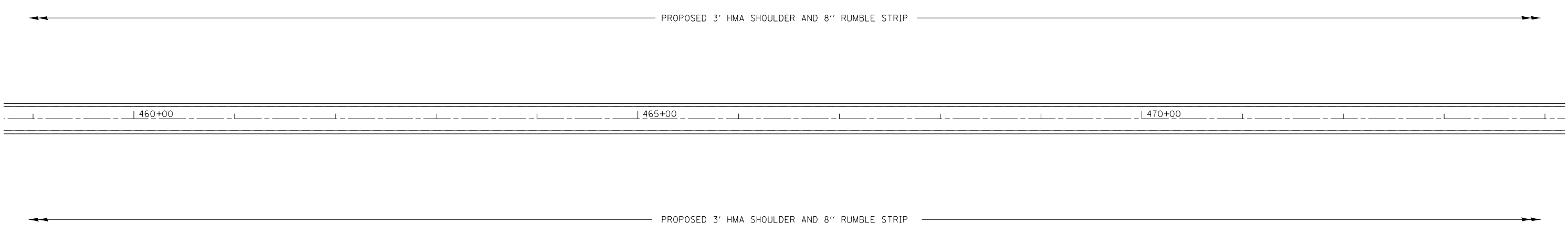
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN
 SCALE: 50 SHEET 14 OF 18 SHEETS STA. 413+00 TO STA. 443+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
832	*	**	29	21
CONTRACT NO. 74711				
ILLINOIS FED. AID PROJECT				



EXIST. CURVE CUR002
 PI STA. = 444+43.98
 Δ = 90° 48' 00'' (LT)
 D = 9° 59' 12''
 R = 573.72'
 T = 581.78'
 L = 909.20'
 E = 243.36'
 e = ----
 T.R. = ----
 S.E. RUN = ----
 P.C. STA. = 438+62.20
 P.T. STA. = 447+71.40



•D7 HMA SAFETY SHLD 2016-1
 ••CLARK, CUMBERLAND

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
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Default	PLOT DATE = 8/6/2015	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN

SCALE: 50 SHEET 15 OF 18 SHEETS STA. 443+00 TO STA. 474+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
832	.	**	29	22
CONTRACT NO. 74711				
ILLINOIS FED. AID PROJECT				



PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP

475+00

480+00

485+00

PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP



PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP

490+00

495+00

500+00

PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP

•D7 HMA SAFETY SHLD 2016-1
••CLARK, CUMBERLAND

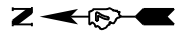
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Default	PLOT DATE = 8/6/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

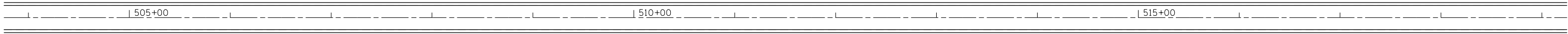
PLAN

SCALE: 50 SHEET 16 OF 18 SHEETS STA. 474+00 TO STA. 504+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
832	*	**	29	23
				CONTRACT NO. 74711
ILLINOIS FED. AID PROJECT				



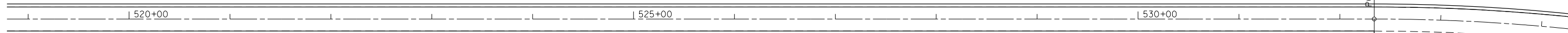
← PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP →



← PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP →



← PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP →



← PROPOSED 3' HMA SHOULDER AND 8" RUMBLE STRIP →

•D7 HMA SAFETY SHLD 2016-1
•CLARK, CUMBERLAND

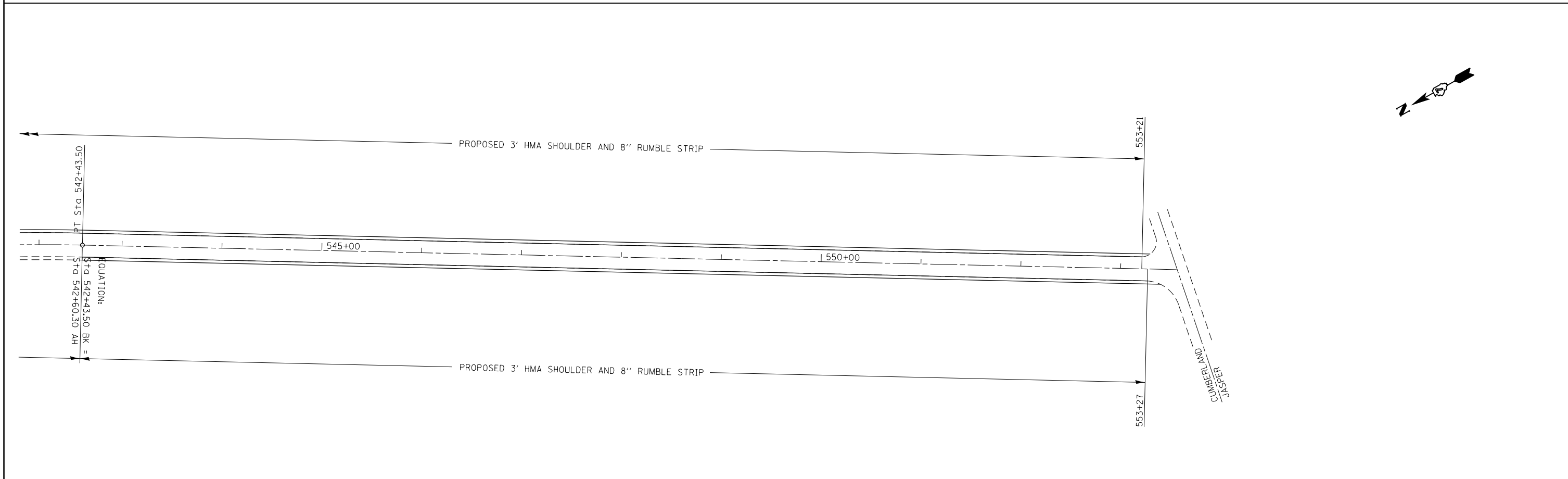
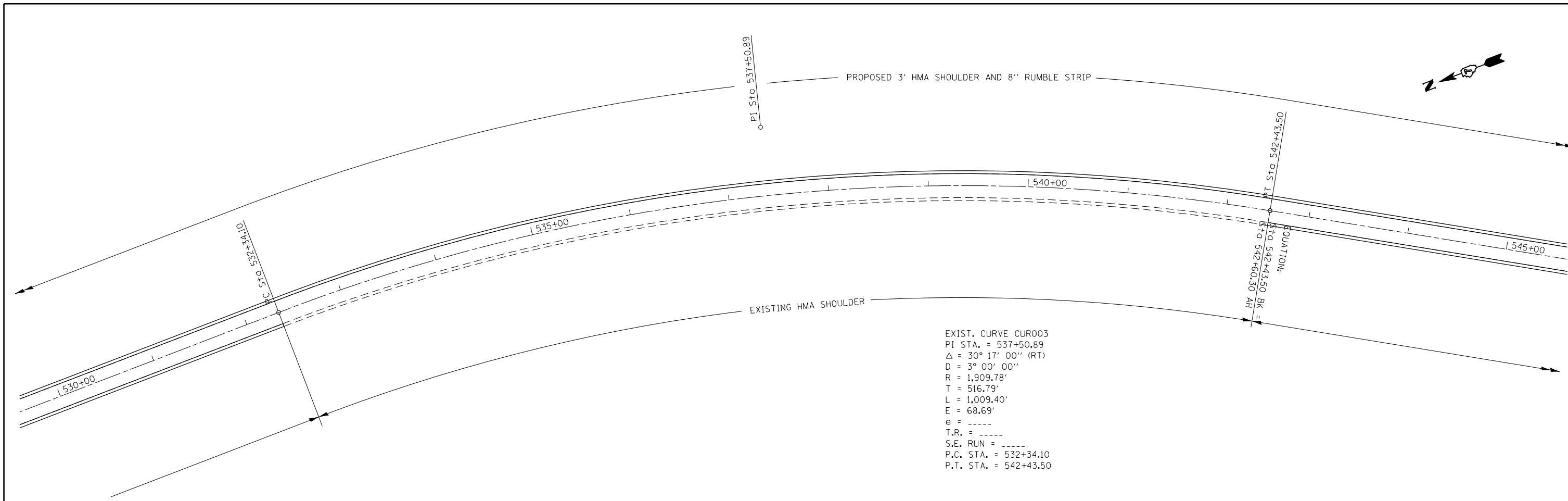
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Default	PLOT DATE = 8/6/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN

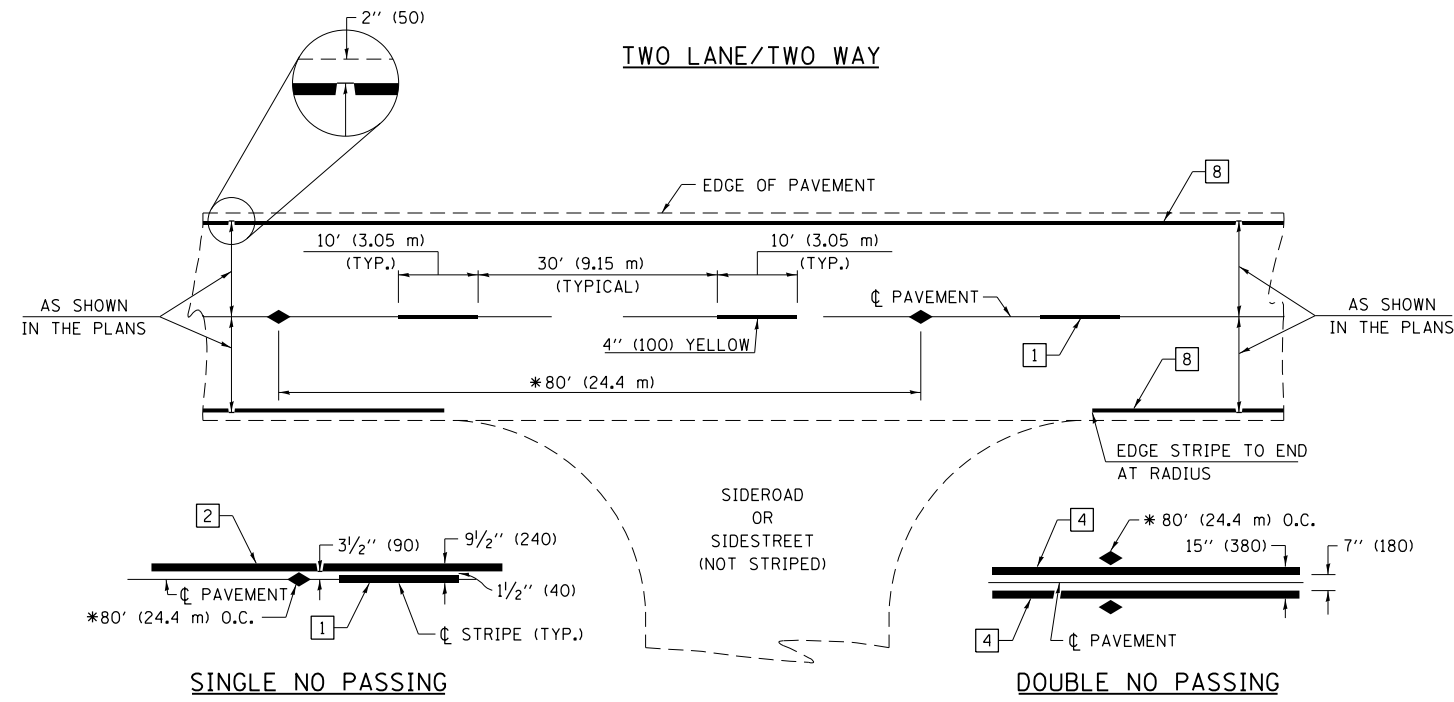
SCALE: 50 SHEET 17 OF 18 SHEETS STA. 504+00 TO STA. 534+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
832	*	**	29	24
CONTRACT NO. 74711				
ILLINOIS FED. AID PROJECT				



FILE NAME = p:\11084EBIDINTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 7\Projects\74711\Drawings\CADsheets\0774711-sht-plan.dgn USER NAME = steffenmk DESIGNED - PLOT SCALE = 100.0000' / in. PLOT DATE = 8/6/2015				REVISED - REVISED - REVISED - REVISED -				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				PLAN SCALE: 50 SHEET 18 OF 18 SHEETS STA. 530+00 TO STA. 553+46					
Default				CHECKED - DATE -													
								F.A.P. RTE. 832		SECTION .		COUNTY **		TOTAL SHEETS 29		SHEET NO. 25	
								CONTRACT NO. 74711									
								ILLINOIS FED. AID PROJECT									

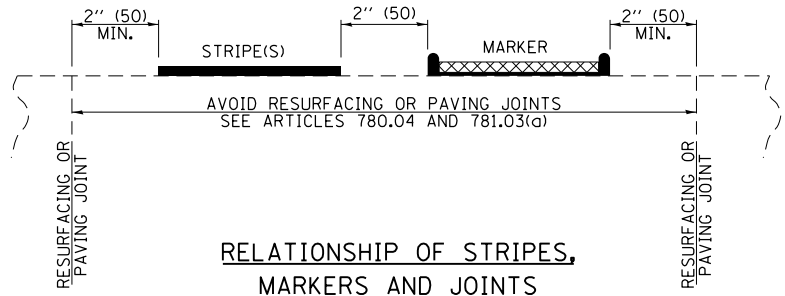
•D7 HMA SAFETY SHLD 2016-1
 ••CLARK, CUMBERLAND



* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

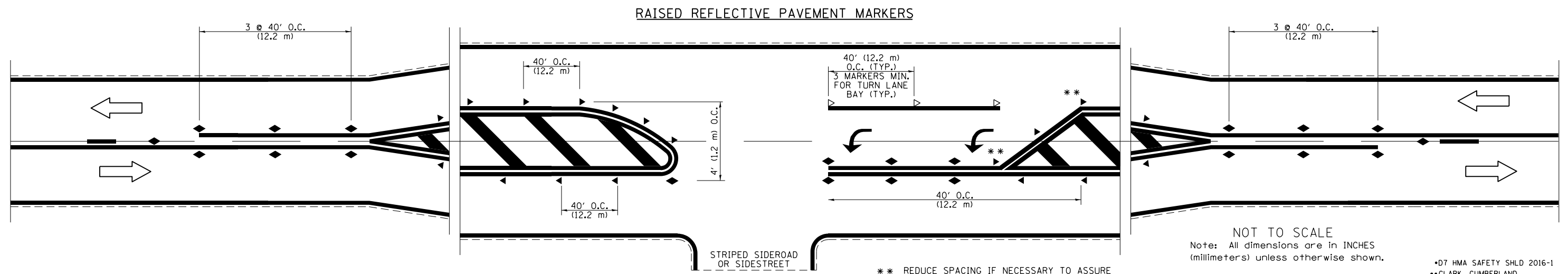
PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
 - 2 4" (100) SOLID (YELLOW)
 - 3 12" (300) DIAGONAL (YELLOW)
 - 4 4" (100) DOUBLE YELLOW (NARROW)
 - 5 12" (300) SOLID WHITE
 - 6 RESERVED
 - 7 6" (150) SKIP-DASH (WHITE)
 - 8 4" (100) SOLID (WHITE)
 - 9 12" (300) DIAGONAL (WHITE)
 - 10 6" (150) SOLID (WHITE)
 - 11 24" (600) STOP BAR (WHITE)
 - 12 8" (200) SOLID (WHITE)
 - 13 4" (100) PARKING WHITE
-



TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER



•D7 HMA SAFETY SHLD 2016-1
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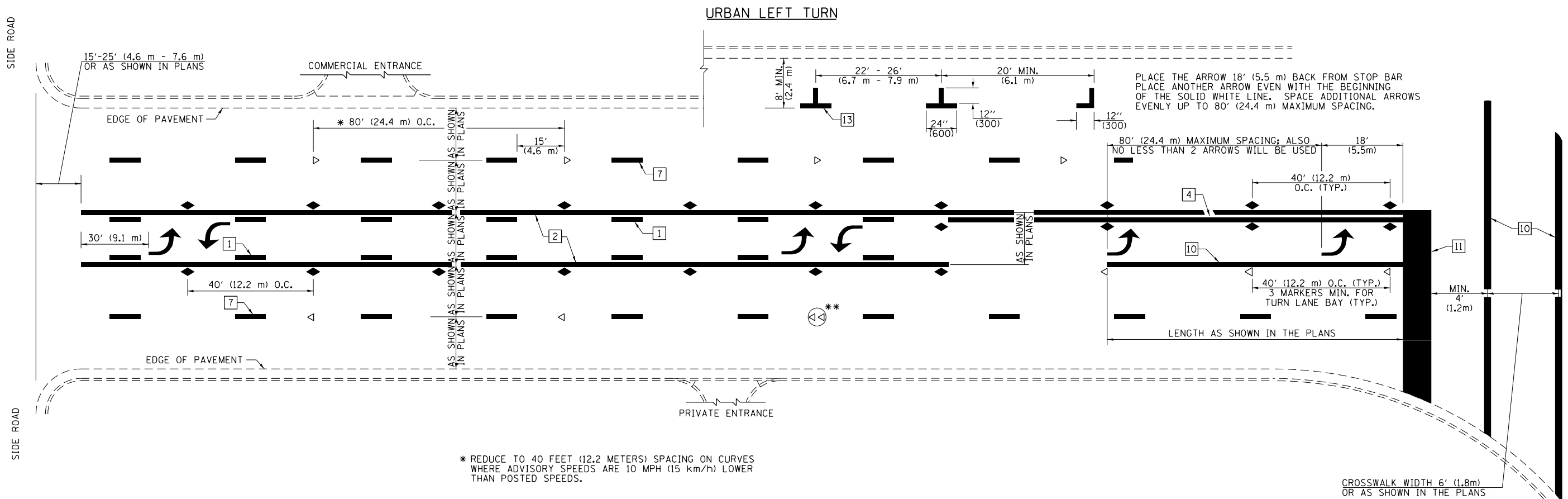
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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)**

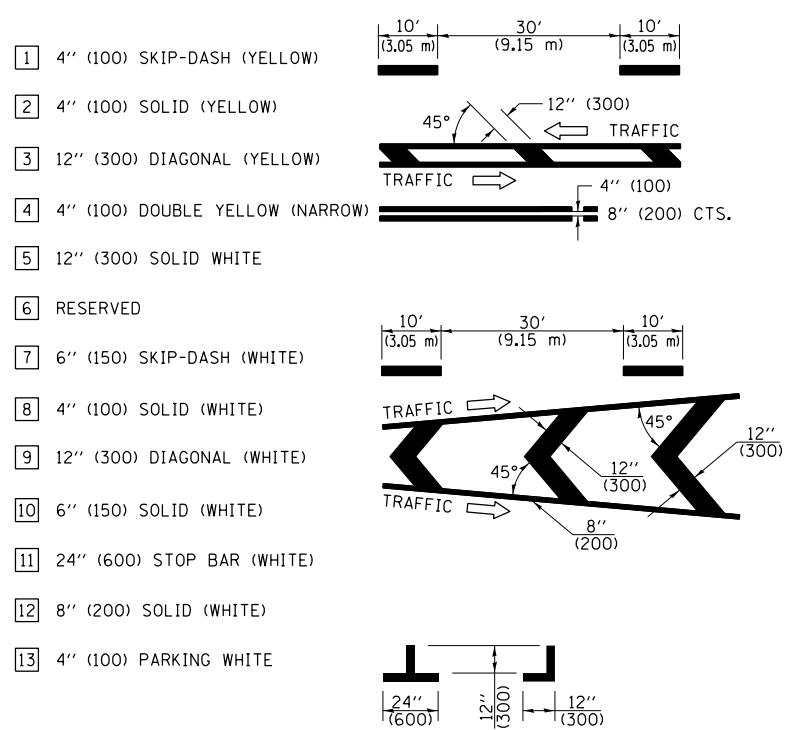
SCALE: N/A SHEET NO. 1 OF 4 SHEETS STA. TO STA.

DISTRICT 7 DETAIL NO. 78000001				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
832	.	**	29	26
			CONTRACT NO. 74711	
ILLINOIS FED. AID PROJECT				



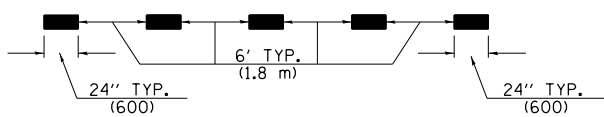
- * REDUCE TO 40 FEET (12.2 METERS) SPACING ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.
- ** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

PAVEMENT MARKING LEGEND

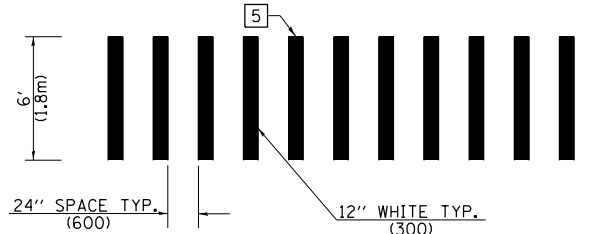


GENERAL NOTES

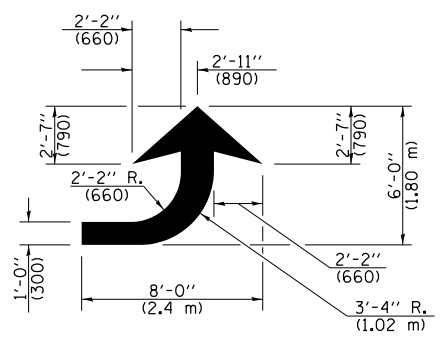
- TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
- THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
- THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER.
- USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)
- LANE LINE EXTENSIONS SHALL BE THE SAME COLOR AND WIDTH AS THE LANE LINE BEING EXTENDED.



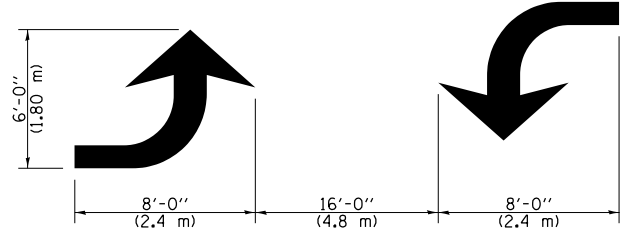
LANE LINE EXTENSIONS



CROSSWALK DETAIL (DECATUR CITY LIMITS ONLY)



LEFT ARROW
REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m²)
(WHITE)



TYPICAL DOUBLE TURN ARROWS (WHITE)

NOT TO SCALE
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

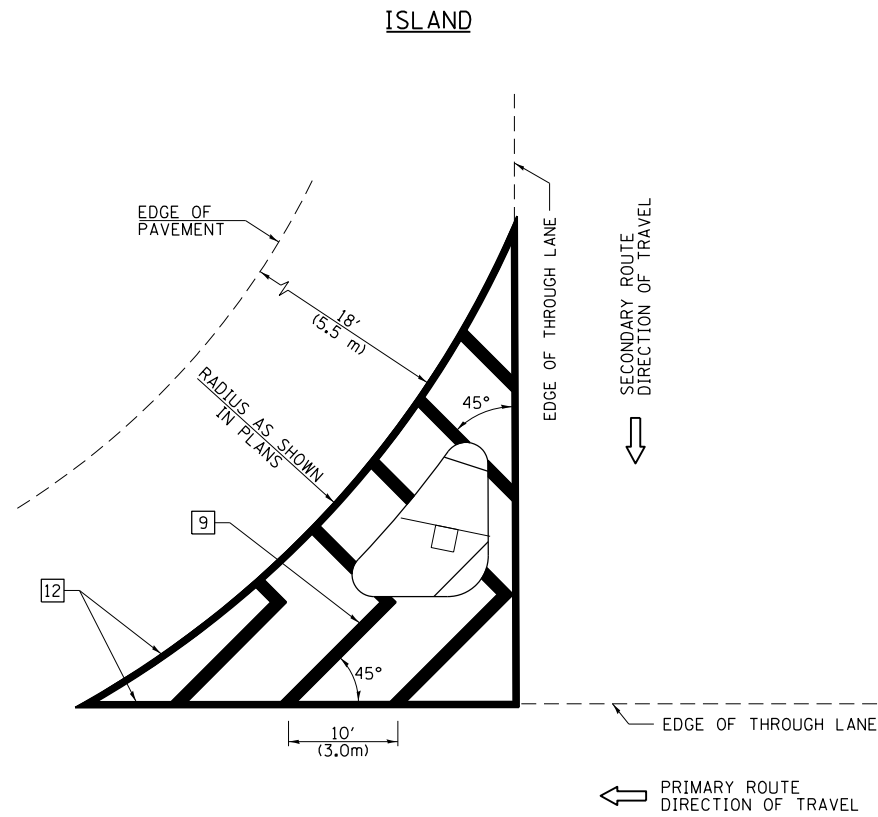
•D7 HMA SAFETY SHLD 2016-1
••CLARK, CUMBERLAND

DISTRICT 7 DETAIL NO. 7800001				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
832	.	**	29	27
			CONTRACT NO. 74711	
ILLINOIS FED. AID PROJECT				

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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)			
SCALE: N/A	SHEET NO. 2 OF 4 SHEETS	STA.	TO STA.

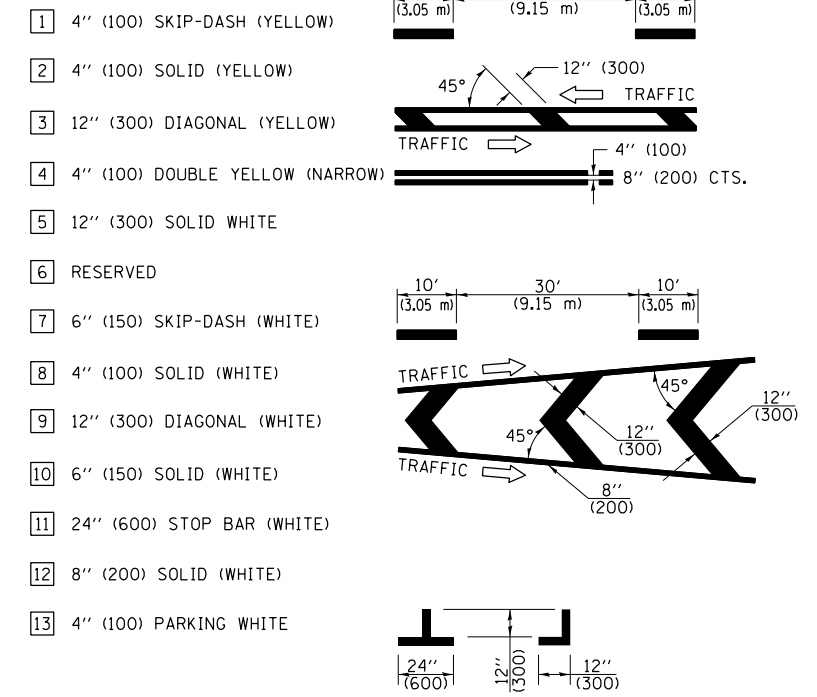


GENERAL NOTES

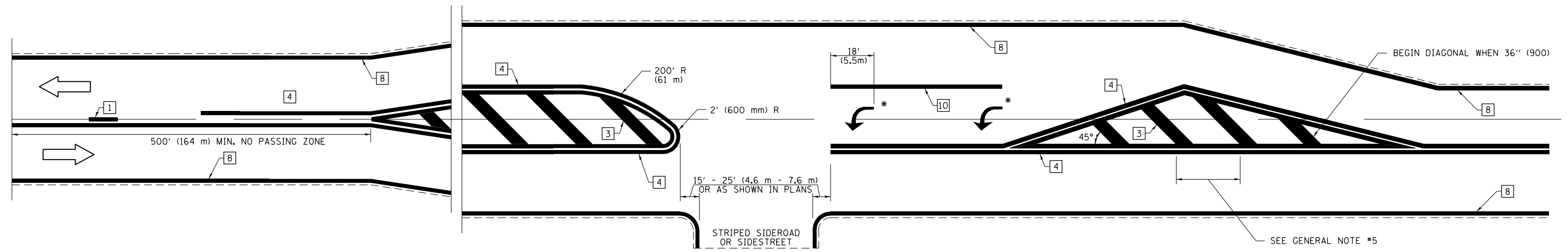
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2] IF PRESENT.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
5. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING:

< 30 MPH (< 50 km/h)	15' (4.5 m)
30-45 MPH (50-75 km/h)	20' (6.0 m)
> 45 MPH (> 75 km/h)	30' (9.0 m)

PAVEMENT MARKING LEGEND



RURAL LEFT TURN STRIPING



* PLACE AN ARROW 18' (5.5 m) BACK FROM STOP BAR. PLACE ANOTHER ARROW EVEN WITH THE BEGINNING OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING. USE MINIMUM OF 2 ARROWS.

SEE GENERAL NOTE #5

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

•D7 HMA SAFETY SHLD 2016-1
•CLARK, CUMBERLAND

DISTRICT 7 DETAIL NO. 7800001

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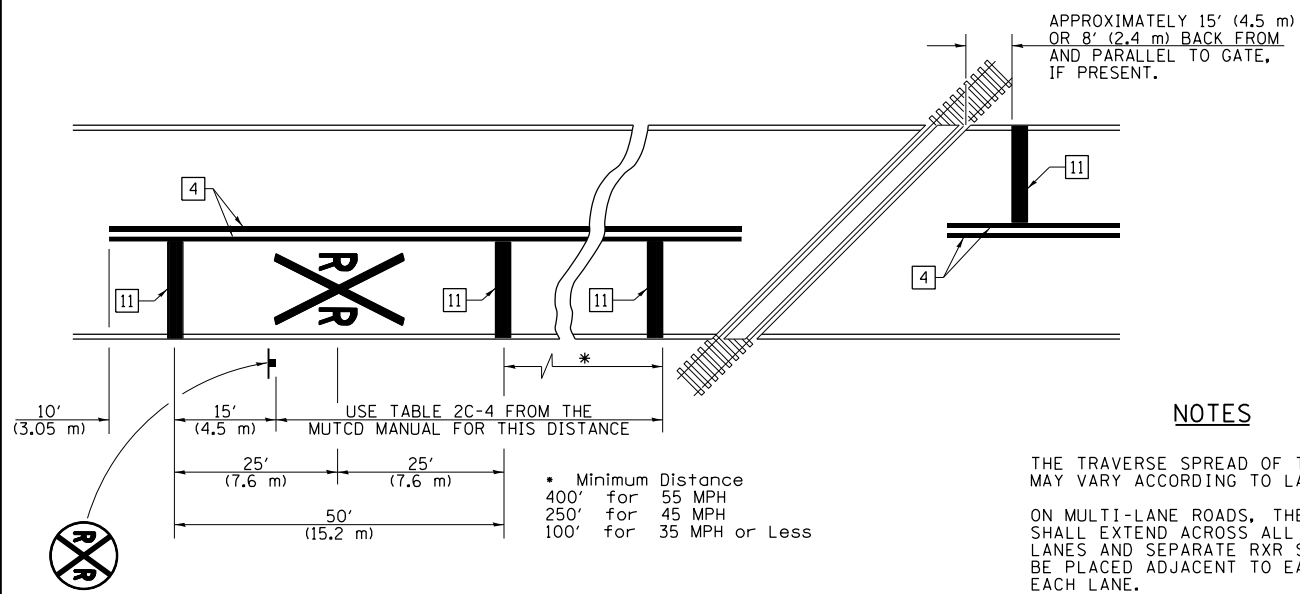
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)**

SCALE: N/A SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
832	.	**	29	28
CONTRACT NO. 74711				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

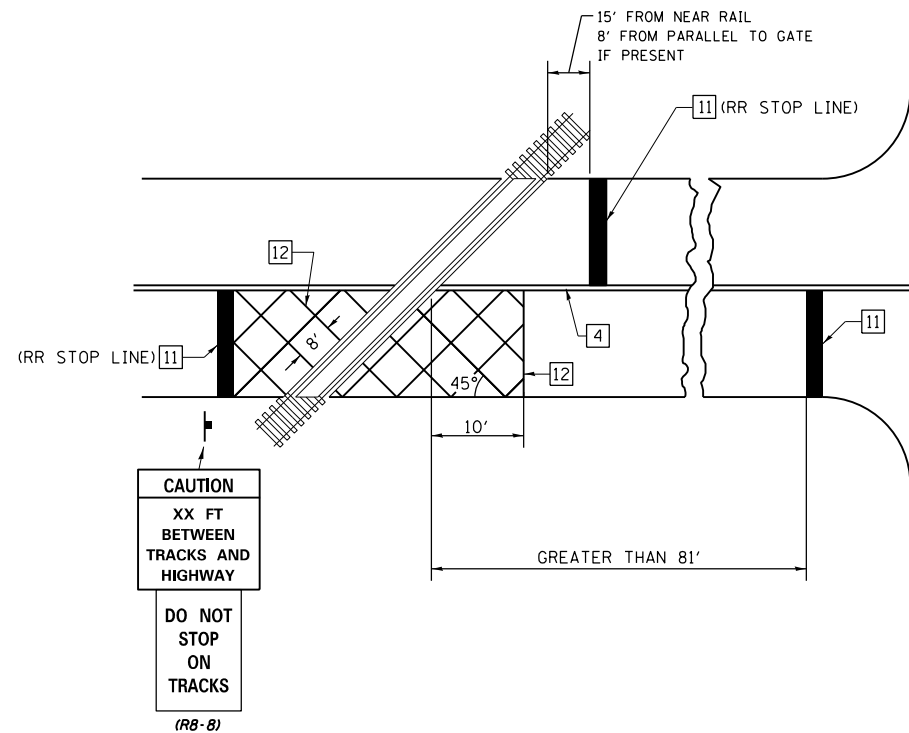
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE R X R SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

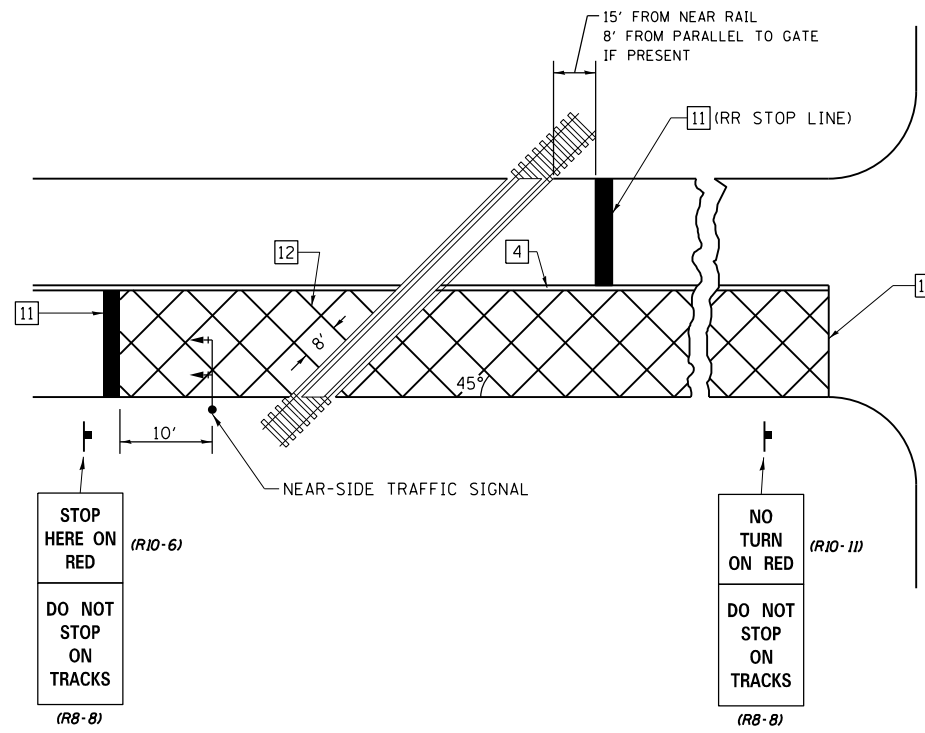
PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



GENERAL NOTES

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.

SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

•D7 HMA SAFETY SHLD 2016-1
••CLARK, CUMBERLAND

DISTRICT 7 DETAIL NO. 7800001

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)

SCALE: N/A SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
832	.	••	29	29
CONTRACT NO. 74711				
ILLINOIS FED. AID PROJECT				