

06-16-2017 LETTING ITEM 251

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED PLANS FOR
SURFACE TRANSPORTATION / RURAL PROGRAM
STR AND SMA
CH12 (FAS 575)
SECTION 05-00075-00-RS
PROJECT RS-0575(313)
CASS COUNTY
JOB NUMBER C-96-219-17

FAS RTE. NO.	SECTION	COUNTY
575	05-00075-00-RS	CASS
STA: 0+00 TO		STA: 102+00
ILLINOIS		PROJECT: RS-0575(313)

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

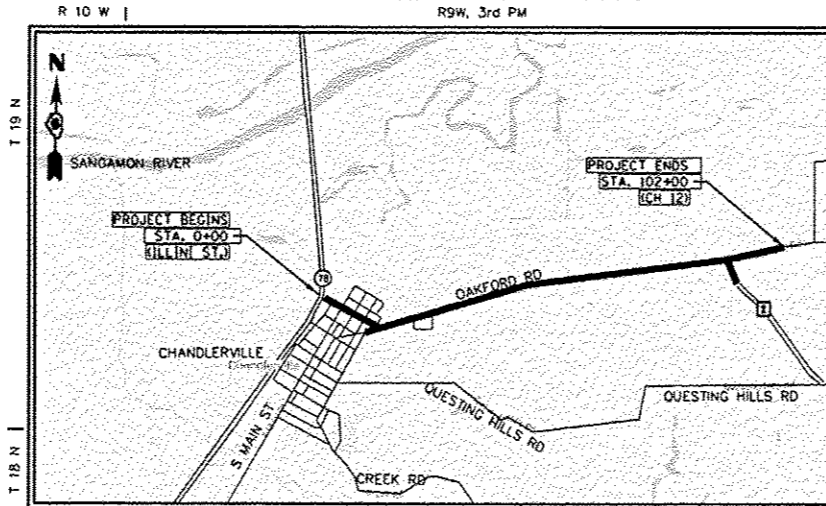
CASS TELEPHONE COMPANY
AMEREN
CASS COUNTY CO T.V. INC.
VILLAGE OF CHANDLERVILLE (WATER)

INDEX OF SHEETS

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- 2 GENERAL NOTES / SUMMARY OF QUANTITIES
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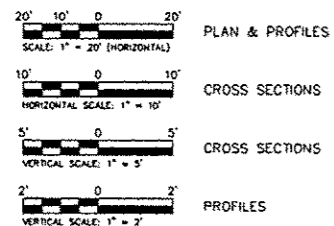
LIST OF STANDARDS

- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701306-03 LANE CLOSURE, 2L, 2W SLOW MOVING OPERATION DAY ONLY, FOR SPEEDS \geq 45 MPH
- 701311-03 LANE CLOSURE, 2L, 2W MOVING OPERATIONS DAY ONLY
- 701901-06 TRAFFIC CONTROL DEVICES
- 780001-05 TYPICAL PAVEMENT MARKINGS
- BLR 24-2 MAILBOX TURNOUTS FOR LOCAL ROADS
- 701501-06 LANE CLOSURE IN URBAN



DESCRIPTION OF WORK
THIS PROJECT CONSISTS OF MILLING AND OVERLAY THICKNESS 3" OF HMA. ALSO INCLUDED WILL BE AGGREGATE WEDGE (TYPE B) SHOULDER, SIDEROAD/ENTRANCE IMPROVEMENTS AND PAVEMENT MARKING.

LOCATION MAP
NET LENGTH OF IMPROVEMENT = 10,500 L.F. = \pm 1.99 MS
SCALE: 1" = 1/4 MILE
(APPROXIMATE SCALE: 1" = 2640")
FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR
ADT: 700 (2017)
DESIGN SPEED: 55 M.P.H.



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.

CONTRACT NO. 93706

APPROVED: 5-3-2017
Timothy L. Icengogle
CASS COUNTY ENGINEER

PASSED: 5-3-2017
Jeffrey M. Salinas
DISTRICT ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW: 5-3-2017
Jeffrey M. Salinas
REGION FOUR ENGINEER

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

THESE PLANS WERE PREPARED BY MYSELF OR PERSONS WORKING UNDER MY PERSONAL SUPERVISION.



Timothy L. Icengogle
TIMOTHY L. ICENOGLE, P.E.
CASS COUNTY ENGINEER
DATE: 5-3-2017

ILLINOIS DEPARTMENT OF TRANSPORTATION
COUNTY HIGHWAY 12
COVER PAGE

DATE: 05/02/2017

DRAWN BY: KK
CHECKED BY: TI
SHEET 1 OF 12

GENERAL NOTES

THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" PREPARED BY IDOT, ADOPTED APRIL 1, 2016, "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PREVISIONS," CURRENT EDITION, AND THE "STANDARD PROVISIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS," CURRENT EDITION. SIGN CONSTRUCTION AND PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," CURRENT EDITION.

IN THE CASE OF CONFLICT BETWEEN THE ABOVE MENTIONED SPECIFICATIONS, THE ENGINEER SHALL DETERMINE WHICH OF THE SPECIFICATIONS SHALL GOVERN. THE ENGINEER'S DECISION SHALL BE FINAL AND NO ADDITIONAL COMPENSATION SHALL BE AWARDED UNLESS APPROVED BY THE ENGINEER.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE LATEST EDITION ISSUED BY ILLINOIS DEPARTMENT OF TRANSPORTATION OR THE COPY OF THE STANDARD INCLUDED IN THESE CONSTRUCTION DOCUMENTS AS DETERMINED BY THE ENGINEER.

THE ENGINEER SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, OR REJECT THE WORKMANSHIP AND/OR MATERIALS WHICH GO TO MAKE UP IMPROVEMENTS AS DETAILED IN THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO PERFORMING ANY OF THE REQUIRED TESTS OR MATERIAL PLACEMENT SO THAT A REPRESENTATIVE MAY BE PRESENT DURING ANY TESTING PROCEDURE OR MATERIAL PLACEMENT.

THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS. IMPROVEMENT REPRESENTATIONS AS SHOWN ON THESE PLANS ARE AS ACCURATE AS POSSIBLE FROM THE INFORMATION AVAILABLE. HOWEVER, SOME FIELD REVISIONS MAY BE REQUIRED TO ACCOMMODATE UNFORESEEN CIRCUMSTANCES. THE ENGINEER SHALL BE ADVISED OF ANY NECESSARY REVISIONS WITH SUFFICIENT LEAD TIME ALLOWED TO PROPERLY CONSIDER AND ACT UPON SUCH REQUESTS.

THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO THE FULL SIZE PLANS AND NOT TO REDUCED SIZE PLANS.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

ANY AREAS DAMAGED OR DESTROYED DURING THE PROJECT AS A DIRECT OR INDIRECT RESULT OF CONTRACTING OPERATIONS SHALL BE RESTORED TO THAT CONDITION OR BETTER WHICH EXISTED PRIOR TO STARTING CONSTRUCTION. THE COST OF SAID RESTORATION OR REPAIR SHALL BE BORNE TOTALLY BY THE CONTRACTOR, WITH NO EXTRA COMPENSATION BEING AWARDED UNDER THIS CONTRACT. PRIOR TO ACCEPTANCE OF THIS REPAIR OR REPLACEMENT THE CONTRACTOR SHALL PRESENT THE OWNER WITH A SIGNOFF LETTER," SIGNED BY A RESPONSIBLE OFFICIAL OF THE OWNER OF THE DAMAGED PROPERTY STATING THAT THE REPAIR OR REPLACEMENT IS ACCEPTABLE.

THE CONTRACTOR SHALL FIELD VERIFY LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES, AND VERIFY PAVEMENT ELEVATIONS WHERE MATCHING INTO EXISTING WORK. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO PROCEEDING WITH WORK.

THE EXISTING SIGNS THAT INTERFERE WITH CONSTRUCTION SHALL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR SHALL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

ALL TRAFFIC CONTROL DEVICES USED FOR THE MAINTENANCE OF TRAFFIC SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS NECESSARY THROUGH THE DURATION OF THE CONTRACT. ALL SIGNS SHALL BE FURNISHED, INSTALLED AND MAINTAINED BY THE CONTRACTOR. PAYMENT SHALL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR TRAFFIC CONTROL AND PROTECTION.

STATION	ENTRANCE TYPE	SIDE	(SY)
0+00	IL ROUTE 78		
1+95	P.E.	RT	112
1+46	P.E.	LT	15
2+86	P.E.	LT	15
3+00	MINOR INTERSECTION (RAILROAD ST.)	RT	47
3+52	P.E.	RT	11
3+92	P.E.	LT	15
5+26	MINOR INTERSECTION (N MAIN ST.)	LT	56
5+26	MINOR INTERSECTION (N MAIN ST.)	RT	56
5+91	P.E.	LT	11
6+58	P.E.	LT	11
7+11	P.E.	LT	15
7+69	P.E.	LT	25
8+31	MINOR INTERSECTION (N 2ND ST.)	LT	52
8+31	MINOR INTERSECTION (N 2ND ST.)	RT	52
9+61	P.E.	LT	15
9+93	P.E.	LT	11
9+94	P.E.	RT	11
11+47	MINOR INTERSECTION (N 4TH ST.)	LT	47
11+47	MINOR INTERSECTION (N 4TH ST.)	RT	21
12+68	P.E.	LT	18
12+91	P.E.	LT	12
14+53	MINOR INTERSECTION (5TH ST.)	LT	35
15+00	P.E.	RT	16
15+70	P.E.	RT	14
16+24	P.E.	LT	15
16+66	P.E.	LT	15
16+88	P.E.	RT	25
23+82	MINOR INTERSECTION (BLUFF VIEW)	RT	51
28+56	MINOR INTERSECTION (HILL VIEW))	RT	38
30+20	P.E.	RT	8
33+69	P.E.	RT	34
40+07	P.E.	LT	27
41+35	P.E.	RT	40
42+71	P.E.	RT	40
46+40	P.E.	LT	19
47+33	P.E.	LT	22
60+06	P.E.	LT	19
84+05	P.E.	LT	48
94+34	P.E.	RT	24
96+60	P.E.	LT	19
97+20	P.E.	LT	19

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. NUMBER IS 800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCE NOTICE IS REQUIRED.

SUBGRADES, SUBBASES, AND BASE COURSES
THE CONTRACTOR WILL BE REQUIRED TO SUBSTANTIATE BASE COURSE THICKNESSES AND FINISH PAVEMENT THICKNESSES. THE ENGINEER SHALL INSPECT BASE COURSE COREOUT PRIOR TO PLACING BASE COURSE TO ENSURE REQUIRED BASE COURSE DEPTH IS PRESENT.

PRIOR TO PLACING BASE COURSE MATERIAL, THE CONTRACTOR SHALL TEST ROLL THE SUBGRADE IN THE PRESENCE OF THE ENGINEER TO DEMONSTRATE THAT SAID SUBGRADE IS READY FOR BASE. PRIOR TO PLACEMENT OF HOT MIX ASPHALT SURFACE, THE SAME VERIFICATION PROCEDURE SHALL BE PERFORMED ON THE BASE COURSE MATERIAL.

THE ENGINEER SHALL WITNESS THE PLACEMENT OF HOT MIX ASPHALT BINDER AND SURFACE COURSE. CORE DRILLING MAY BE REQUIRED TO DEMONSTRATE THAT BASE COURSE AND PAVEMENT THICKNESSES CONFORM TO THE SPECIFICATIONS.

FAS RTE. NO.	SECTION	COUNTY
575	05-00075-00-RS	CASS
STA.	TO	STA.
	ILLINOIS	PROJECT: RS-0575(313)

PAVEMENT SCHEDULE					
STATION TO STATION		BITUMINOUS MATERIALS (TACK COAT)	LEVELING BINDER (MACHINE METHOD), N50	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	INCIDENTAL HOT-MIX ASPHALT SURFACING
		POUND	TON		TON
0+10.00	102+00.00	18,342.0	2,344.0	2,344.0	0
0+00.00	3+00.00	540.0	69.0	69.0	0
1+00.00	2+00.00	240.0	23.0	23.0	0
ENTRANCES & SIDEROADS		780.0	0.0	0.0	132
MAILBOX TURNOUTS & MISC		200.0	0.0	0.0	50
TOTALS		20,102.0	2,436.0	2,436.0	182
USE		20,100.0	2,450.0	2,450.0	182

STATION TO STATION	SIDE	DESCRIPTION	THERMOPLASTIC PAVEMENT MARKING	
			LINE 5"	
			YELLOW	WHITE
COUNTY HIGHWAY 123				
0+10.00	102+00.00	LT/RT	EDGE LINES	20,380
0+10.00	102+00.00	CL	SKIP DASH	2,550
0+00.00	3+00.00	CL	SKIP DASH	75
0+00.00	3+00.00	LT/RT	EDGE LINES	600
TOTAL				2,625
				20,980

CODE NUMBER	ITEM	UNIT OF MEASURE	QUANTITY
35101400	AGGREGATE BASE COURSE, TYPE B	TON	40
35800200	AGGREGATE BASE REPAIR	TON	40
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	20,100
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	2,450
40600990	TEMPORARY RAMP	SQ YD	50
*40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	2,450
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	182
44000152	HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"	SQ YD	29,388
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	550
56109210	WATER VALVE TO BE ADJUSTED	EACH	1
67100100	MOBILIZATION	L SUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	7,875
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	23,605
78000300	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	FOOT	23,605
*X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1
* SEE SPECIAL PROVISIONS		Δ SPECIALTY ITEMS	

ILLINOIS DEPARTMENT OF TRANSPORTATION

COUNTY HIGHWAY 12
GENERAL NOTES
SUMMARY OF QUANTITIES

DRAWN BY: KK
CHECKED BY: TI
SHEET 2 OF 12

DATE: 05/02/2017

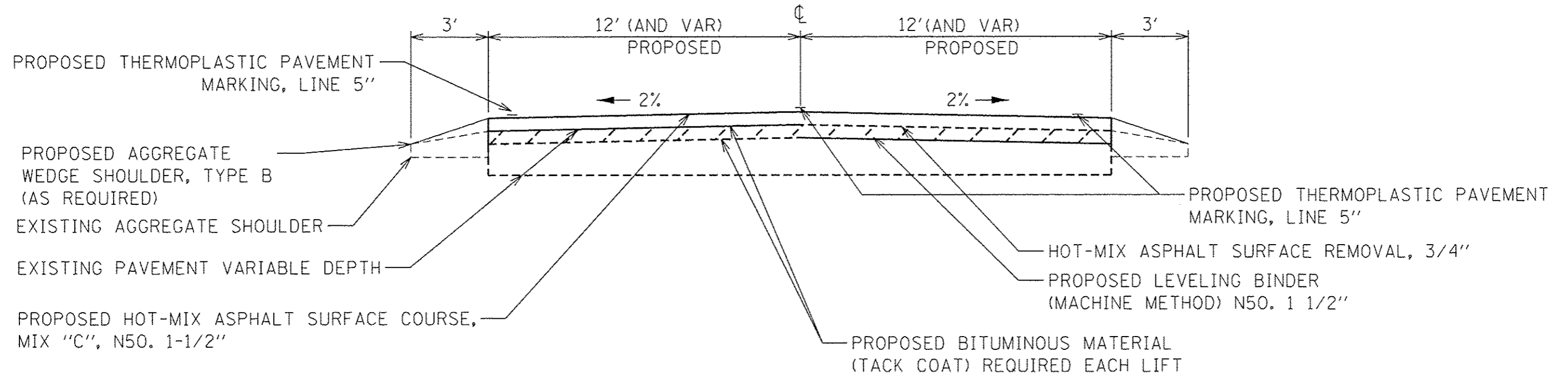
FAS RTE. NO.	SECTION	COUNTY
575	05-00075-00-RS	CASS
STA.	TO	STA.
	ILLINOIS	PROJECT: RS-0575(313)

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE(S)	HMA	LEVELING	HMA
	SUR CSE	BINDER	SHOULDER
AC/PG	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @N50	4.0% @N50	4.0% @N50
MIX COMPOSITION (GRADATION MIXTURE)	IL-9.5	IL-9.5	IL-19.0 OR IL-19.0 CB
FRICTION AGGREGATE	MIX "C"	N/A	N/A
QUALITY MANAGEMENT	QC/QA	QC/QA	

TYPICAL CROSS SECTION

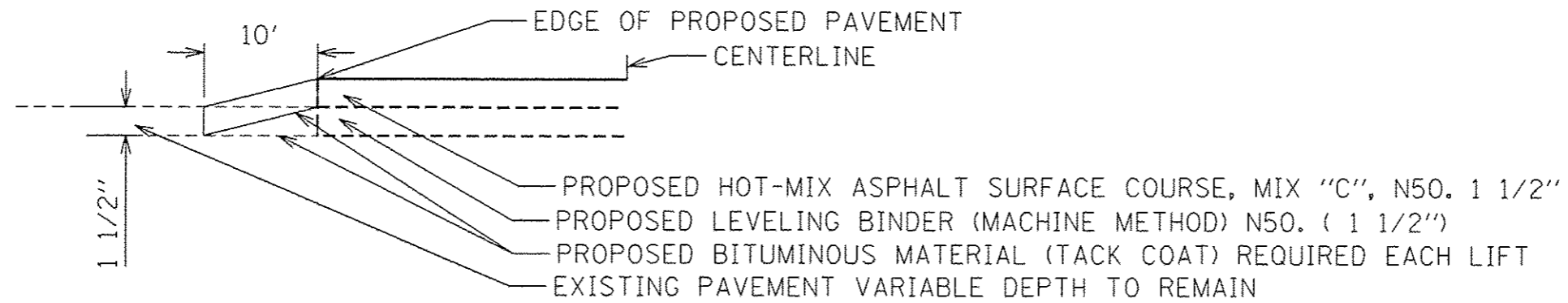
STA 0+10 TO STA 102+00 (CH 12)
 STA 0+00 TO STA 3+00 (NEWMANSVILLE RD)



NOTE:
 1. SEE SITE PLAN FOR SECTIONS WITH VARIED WIDTHS.

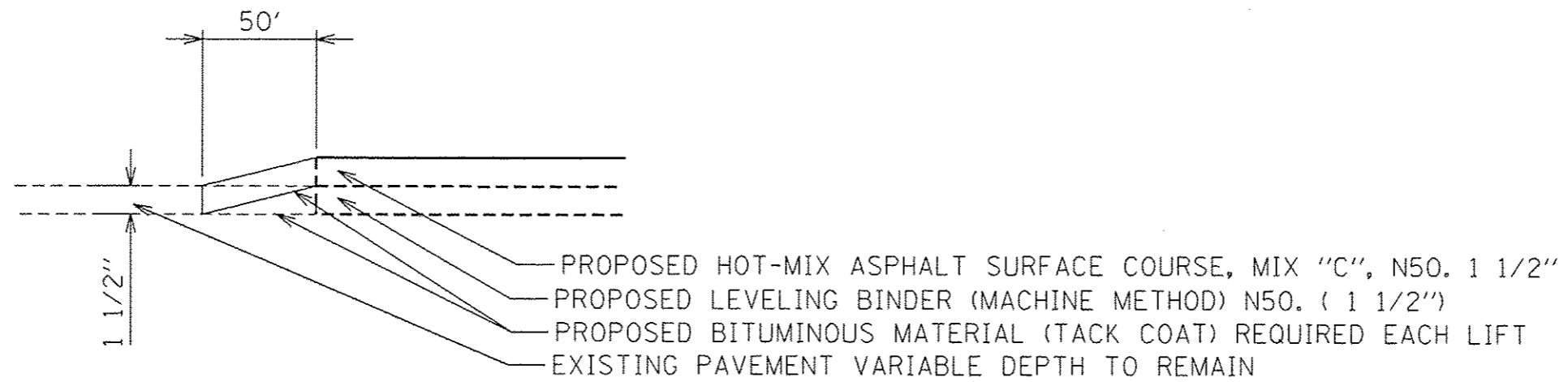
ILLINOIS DEPARTMENT OF TRANSPORTATION
COUNTY HIGHWAY 12 TYPICAL SECTIONS DETAILS
DRAWN BY: KK CHECKED BY: TI DATE: 05/02/2017 SHEET 3 OF 12

FAS RTE. NO.	SECTION	COUNTY
575	05-00075-00-RS	CASS
STA: 0+00 TO		STA: 13+00
ILLINOIS		PROJECT: RS-0575(313)



BITUMINOUS TRANSITION AT ENTRANCE

NTS



BITUMINOUS TRANSITION

NTS

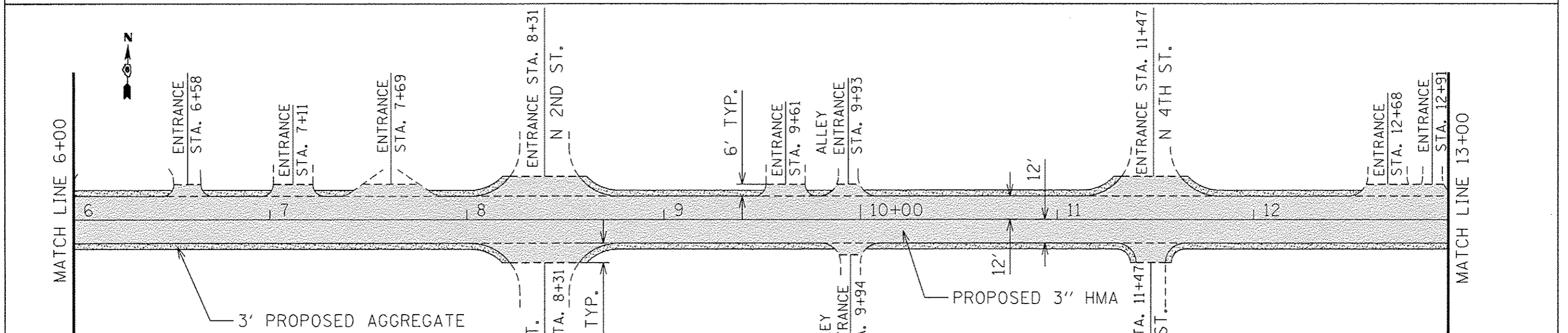
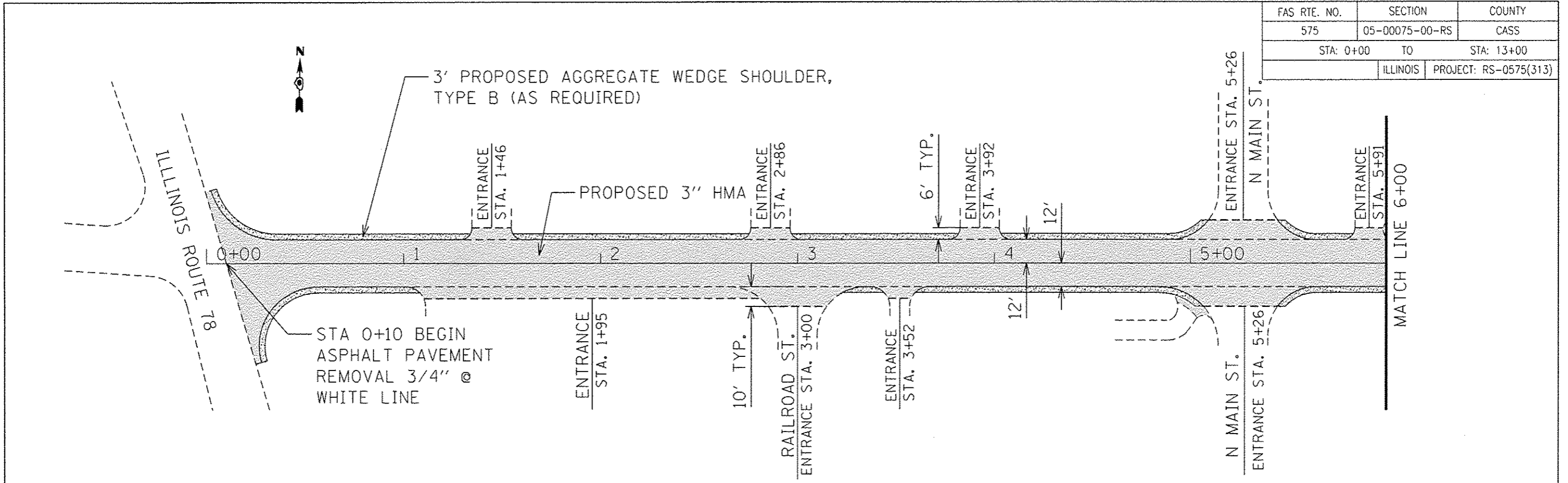
ILLINOIS DEPARTMENT OF TRANSPORTATION

COUNTY HIGHWAY 12
PROPOSED PLAN

NOT TO SCALE
DATE: 05/02/2017

DRAWN BY: KK
CHECKED BY: TI
SHEET 4 OF 12

FAS RTE. NO.	SECTION	COUNTY
575	05-00075-00-RS	CASS
STA: 0+00 TO		STA: 13+00
ILLINOIS		PROJECT: RS-0575(313)



NOTE: WIDTH VARIES IN TOWN - MATCH EXISTING PAVEMENT WIDTH

ILLINOIS DEPARTMENT OF TRANSPORTATION

COUNTY HIGHWAY 12
PROPOSED PLAN

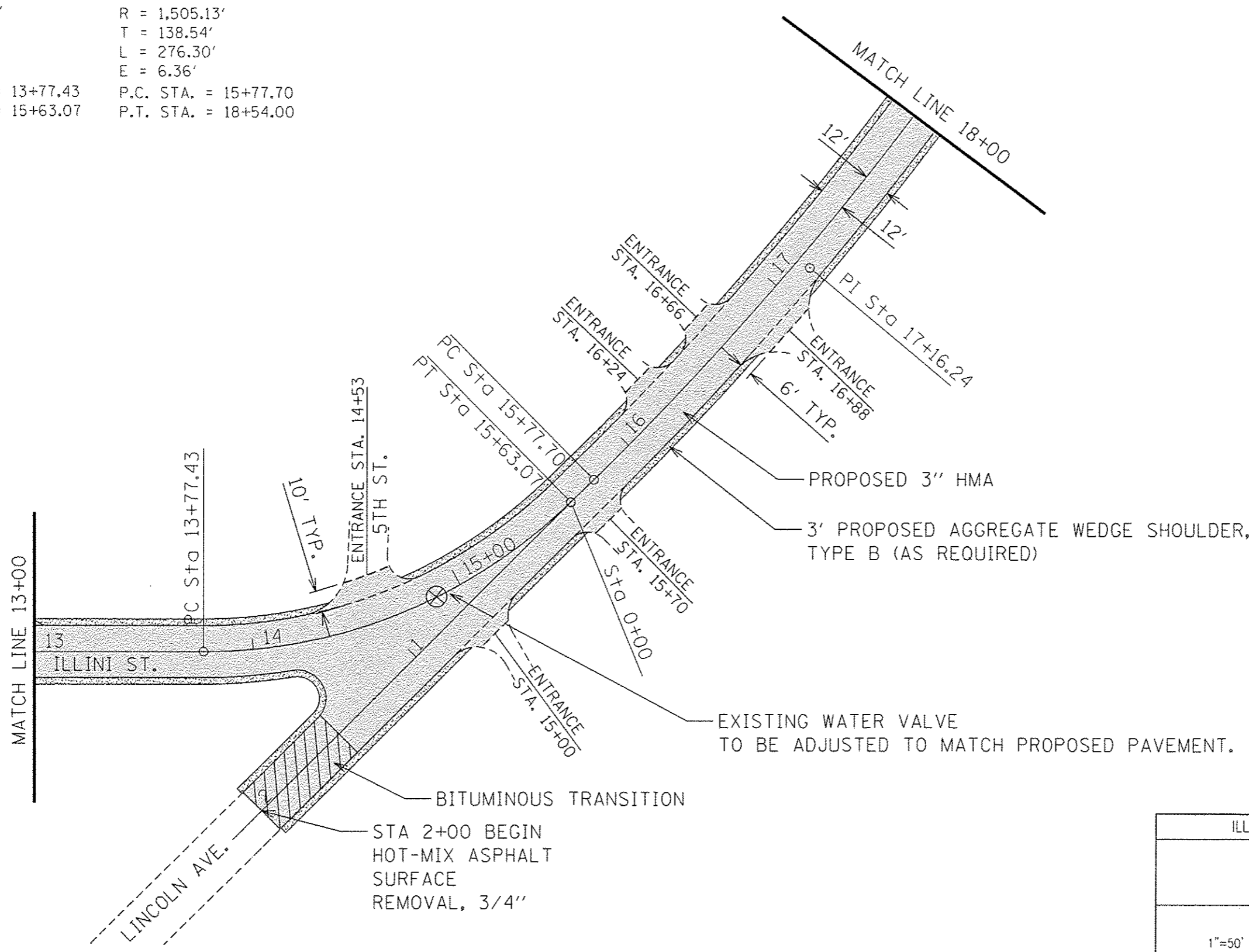
1"=50'
DATE: 05/02/2017

DRAWN BY: KK
CHECKED BY: TI
SHEET 5 OF 12

FAS RTE. NO.	SECTION	COUNTY
575	05-00075-00-RS	CASS
STA: 13+00 TO		STA: 18+00
ILLINOIS		PROJECT: RS-0575(313)

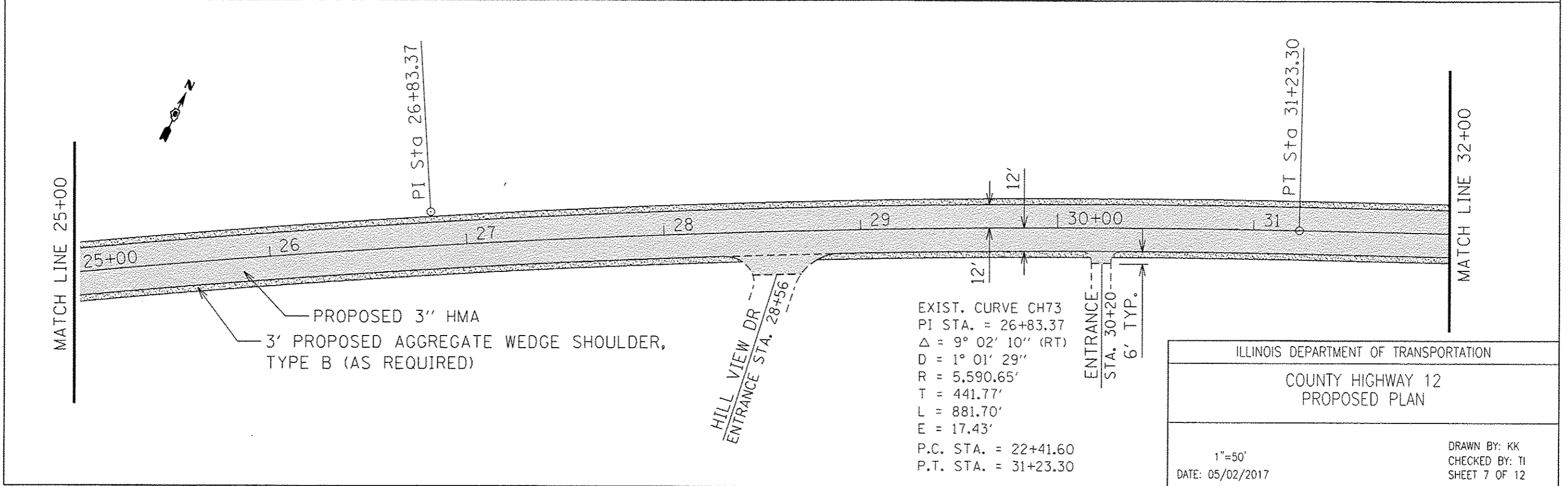
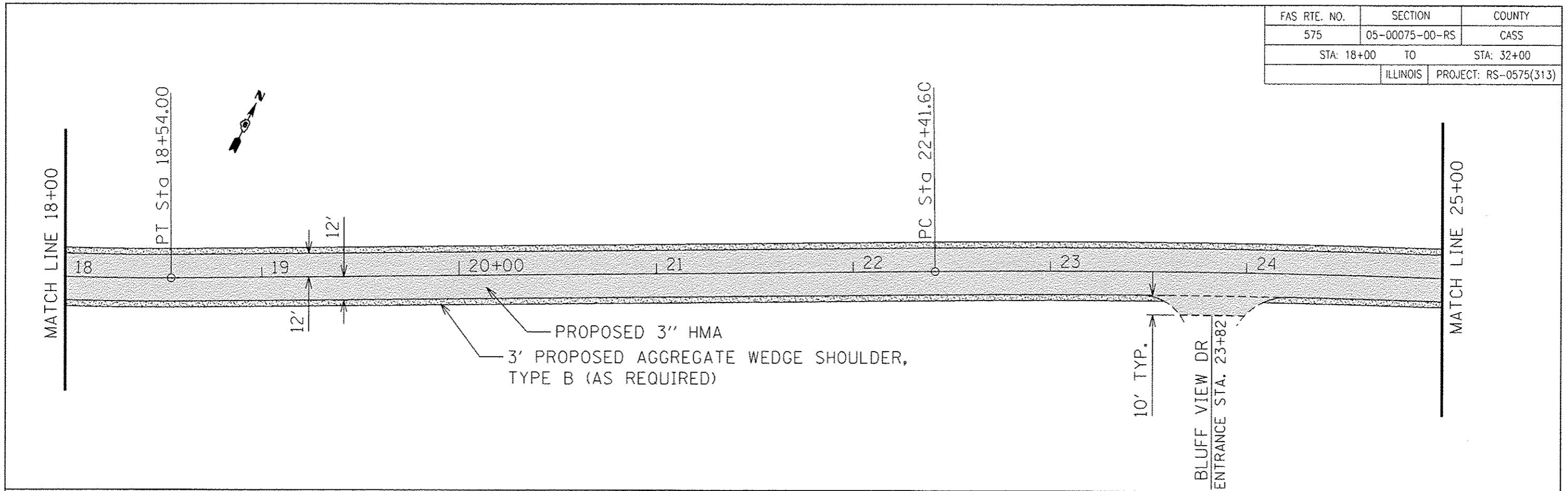
EXIST. CURVE CH71
 PI STA. = 14+75.20
 $\Delta = 44^\circ 26' 00''$ (LT)
 $D = 23^\circ 56' 03''$
 $R = 239.39'$
 $T = 97.77'$
 $L = 185.65'$
 $E = 19.20'$
 P.C. STA. = 13+77.43
 P.T. STA. = 15+63.07

EXIST. CURVE CH72
 PI STA. = 17+16.24
 $\Delta = 10^\circ 31' 04''$ (LT)
 $D = 3^\circ 48' 24''$
 $R = 1,505.13'$
 $T = 138.54'$
 $L = 276.30'$
 $E = 6.36'$
 P.C. STA. = 15+77.70
 P.T. STA. = 18+54.00



ILLINOIS DEPARTMENT OF TRANSPORTATION	
COUNTY HIGHWAY 12 PROPOSED PLAN	
1"=50' DATE: 05/02/2017	DRAWN BY: KK CHECKED BY: TI SHEET 6 OF 12

FAS RTE. NO.	SECTION	COUNTY
575	05-00075-00-RS	CASS
STA: 18+00 TO		STA: 32+00
ILLINOIS		PROJECT: RS-0575(313)

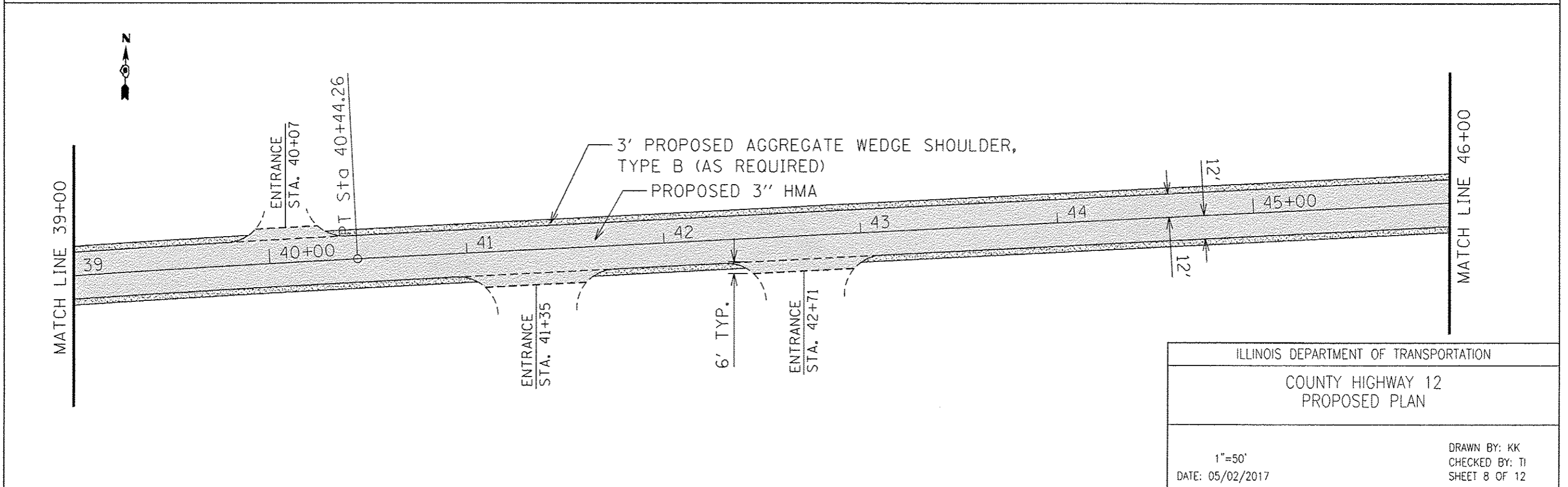
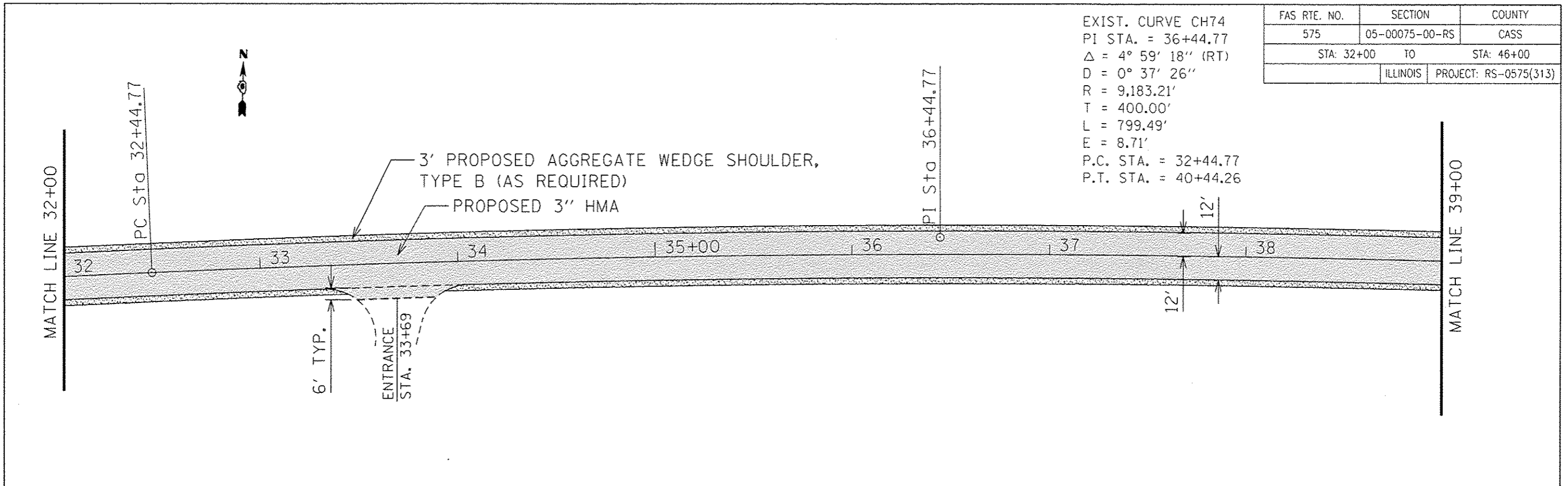


EXIST. CURVE CH73
 PI STA. = 26+83.37
 $\Delta = 9^\circ 02' 10''$ (RT)
 $D = 1^\circ 01' 29''$
 $R = 5,590.65'$
 $T = 441.77'$
 $L = 881.70'$
 $E = 17.43'$
 P.C. STA. = 22+41.60
 P.T. STA. = 31+23.30

ILLINOIS DEPARTMENT OF TRANSPORTATION	
COUNTY HIGHWAY 12 PROPOSED PLAN	
1"=50' DATE: 05/02/2017	DRAWN BY: KK CHECKED BY: TI SHEET 7 OF 12

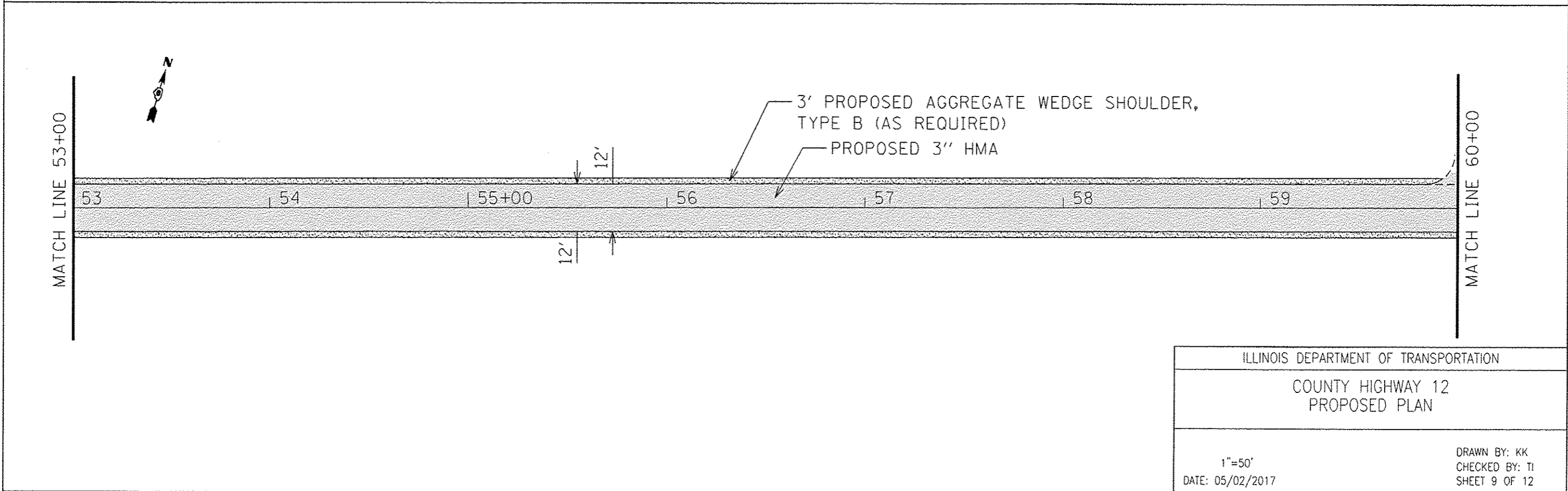
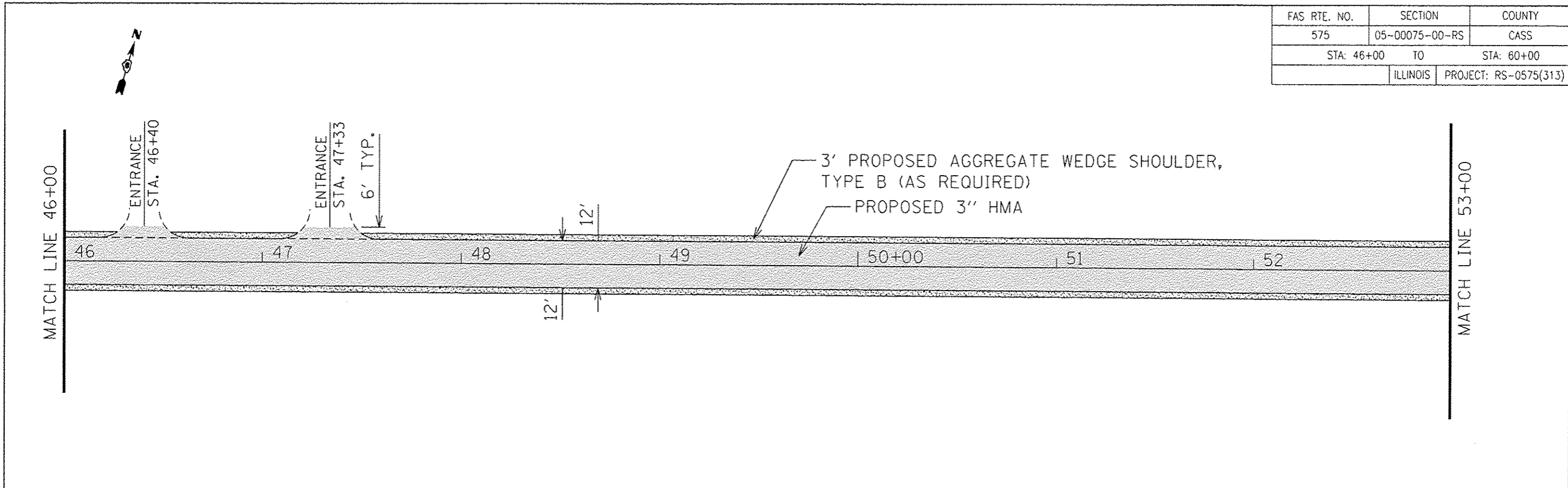
FAS RTE. NO.	SECTION	COUNTY
575	05-00075-00-RS	CASS
STA: 32+00 TO		STA: 46+00
ILLINOIS		PROJECT: RS-0575(313)

EXIST. CURVE CH74
 PI STA. = 36+44.77
 $\Delta = 4^\circ 59' 18''$ (RT)
 $D = 0^\circ 37' 26''$
 $R = 9,183.21'$
 $T = 400.00'$
 $L = 799.49'$
 $E = 8.71'$
 P.C. STA. = 32+44.77
 P.T. STA. = 40+44.26



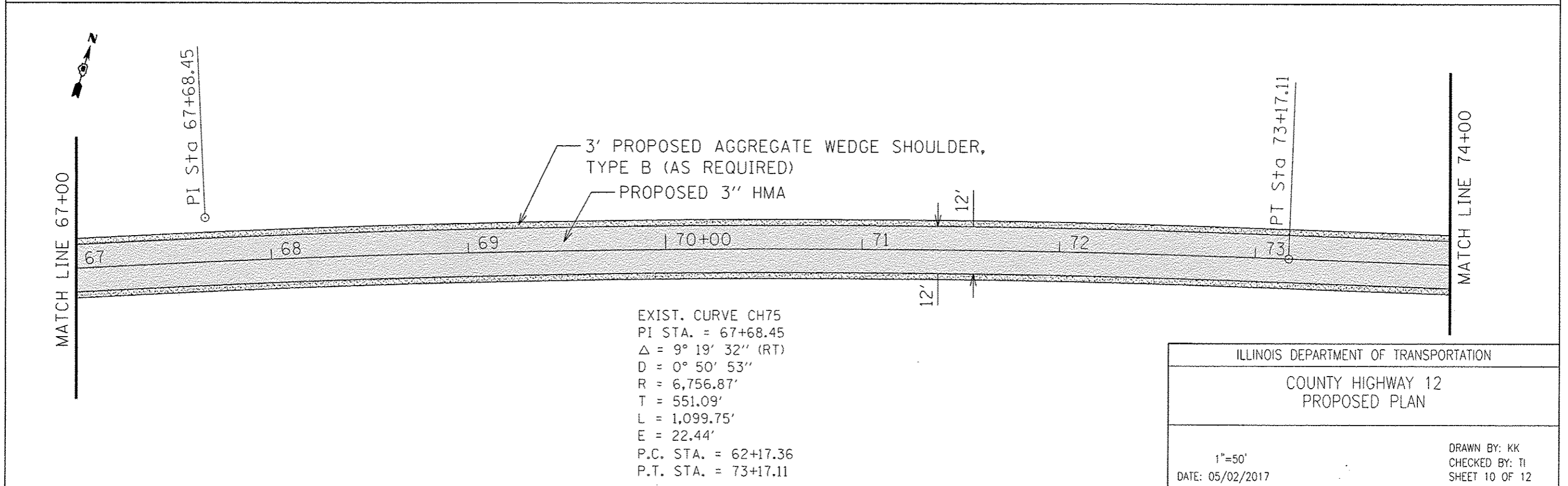
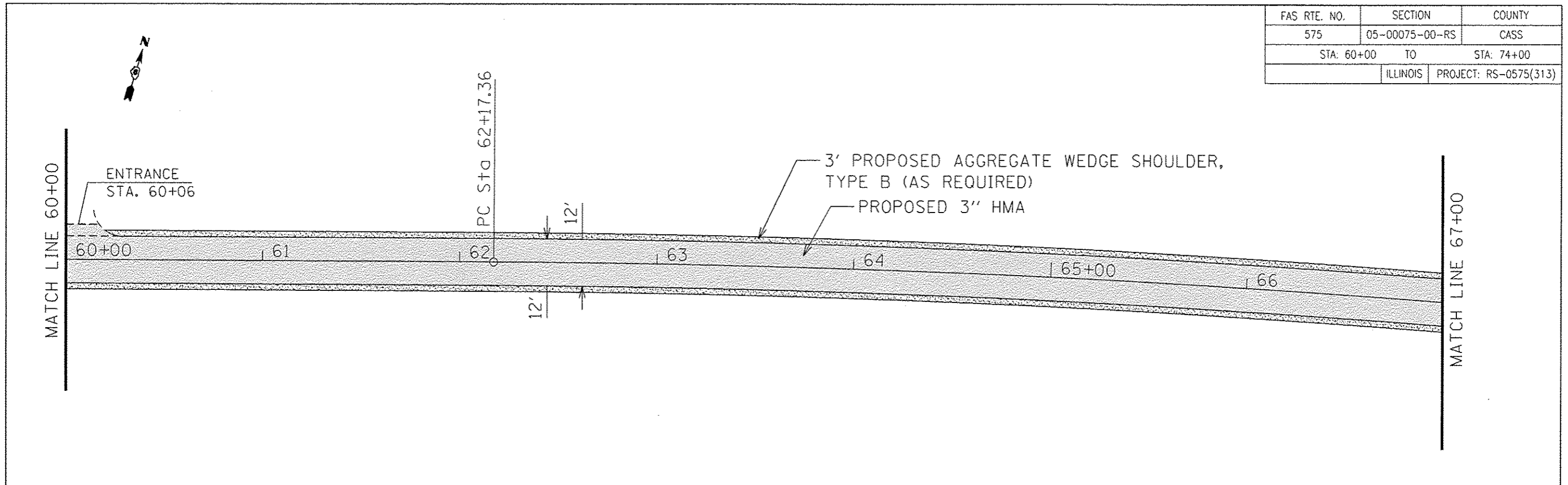
ILLINOIS DEPARTMENT OF TRANSPORTATION	
COUNTY HIGHWAY 12 PROPOSED PLAN	
1"=50' DATE: 05/02/2017	DRAWN BY: KK CHECKED BY: TI SHEET 8 OF 12

FAS RTE. NO.	SECTION	COUNTY
575	05-00075-00-RS	CASS
STA: 46+00 TO		STA: 60+00
ILLINOIS		PROJECT: RS-0575(313)



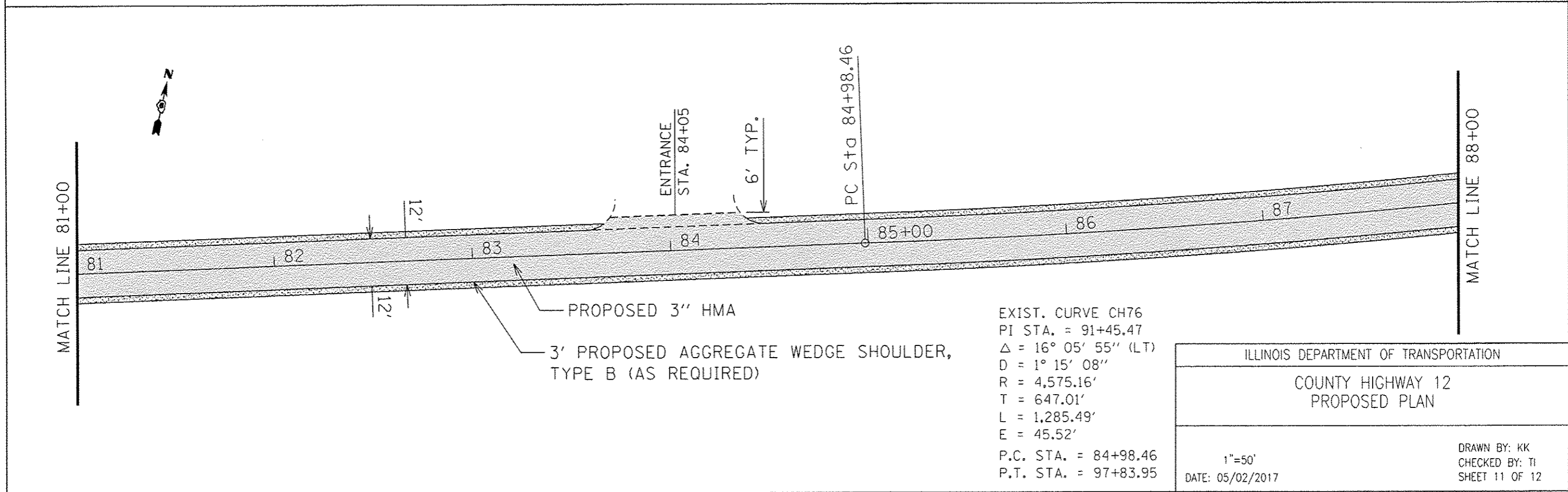
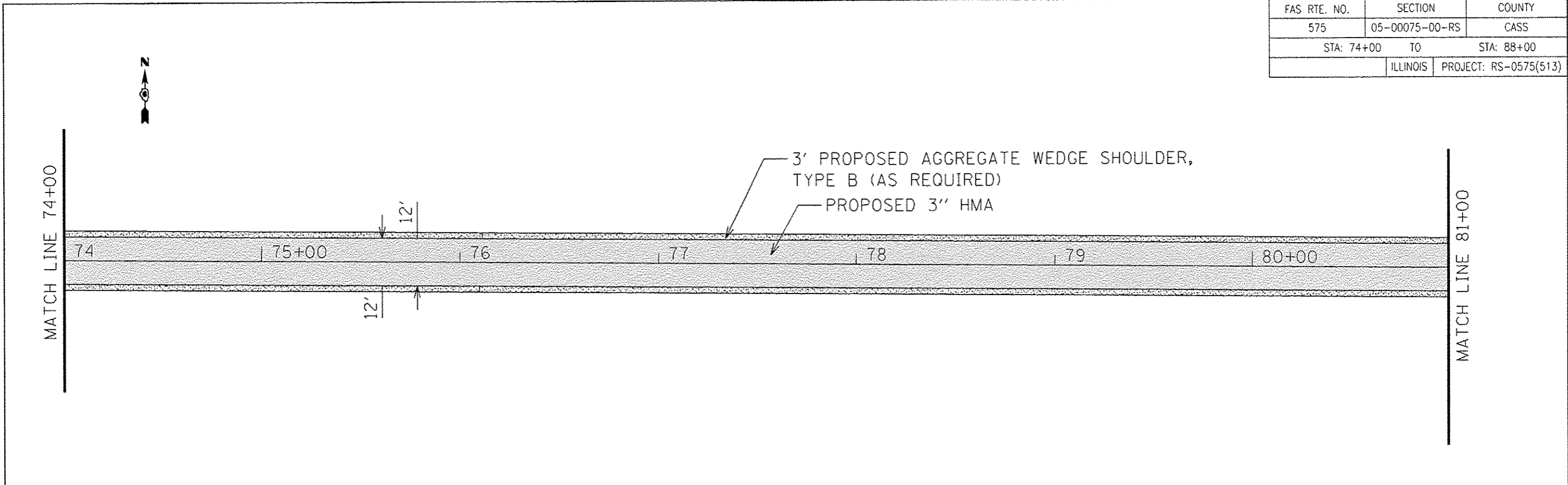
ILLINOIS DEPARTMENT OF TRANSPORTATION	
COUNTY HIGHWAY 12 PROPOSED PLAN	
1"=50' DATE: 05/02/2017	DRAWN BY: KK CHECKED BY: TI SHEET 9 OF 12

FAS RTE. NO.	SECTION	COUNTY
575	05-00075-00-RS	CASS
STA: 60+00 TO		STA: 74+00
ILLINOIS		PROJECT: RS-0575(313)



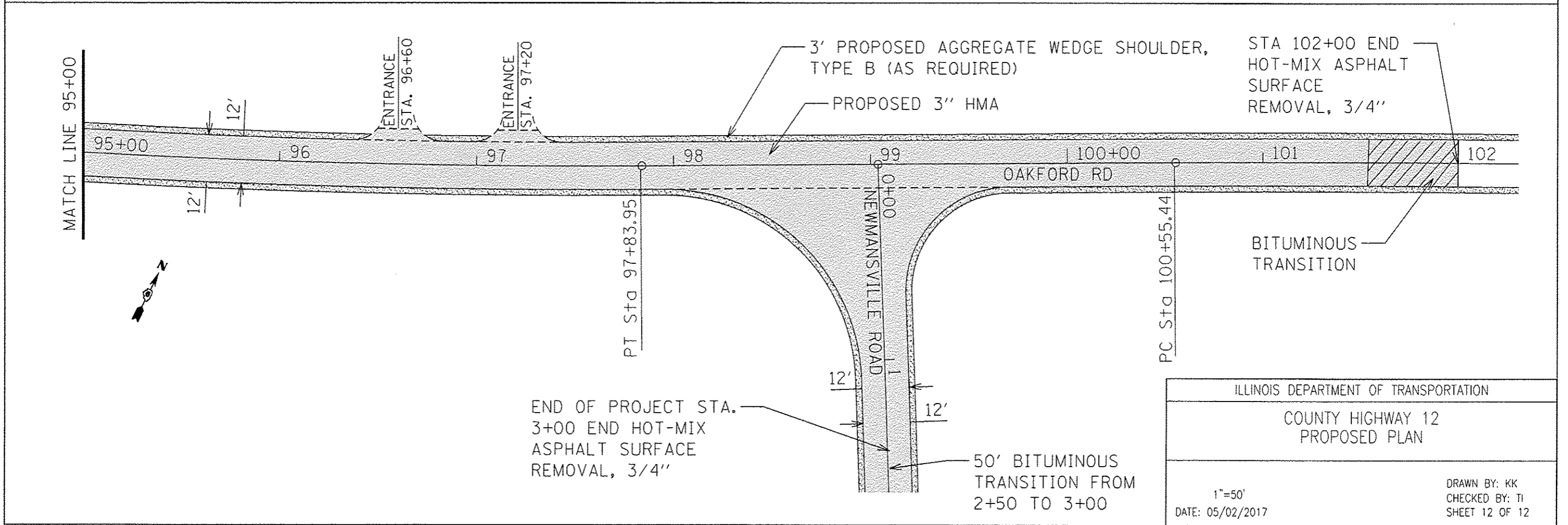
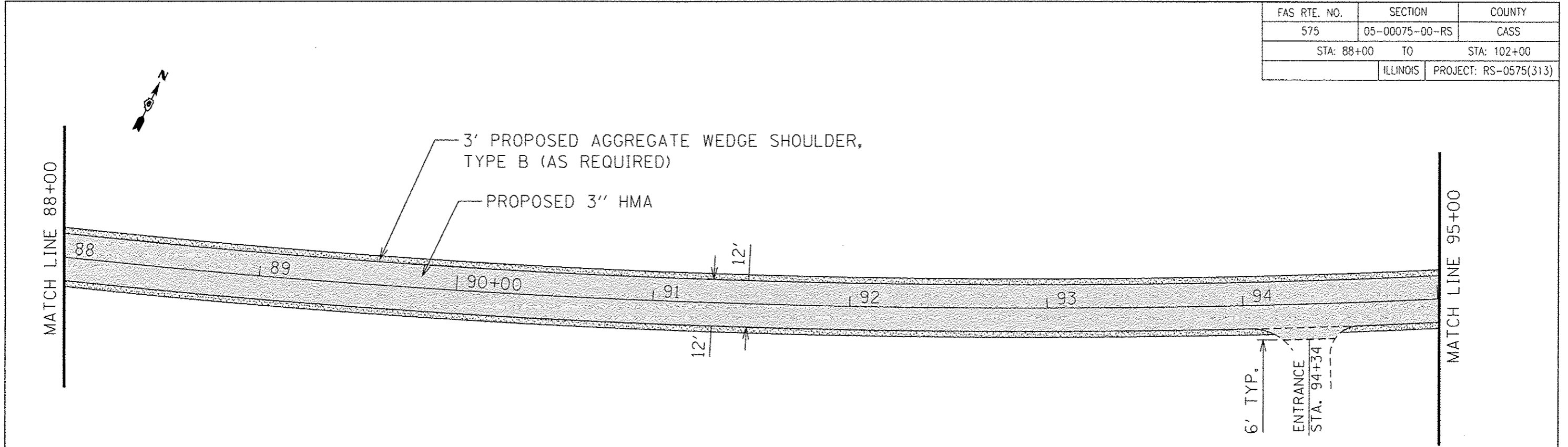
ILLINOIS DEPARTMENT OF TRANSPORTATION	
COUNTY HIGHWAY 12 PROPOSED PLAN	
1"=50' DATE: 05/02/2017	DRAWN BY: KK CHECKED BY: TI SHEET 10 OF 12

FAS RTE. NO.	SECTION	COUNTY
575	05-00075-00-RS	CASS
STA: 74+00 TO		STA: 88+00
ILLINOIS		PROJECT: RS-0575(513)



ILLINOIS DEPARTMENT OF TRANSPORTATION	
COUNTY HIGHWAY 12 PROPOSED PLAN	
1"=50' DATE: 05/02/2017	DRAWN BY: KK CHECKED BY: TI SHEET 11 OF 12

FAS RTE. NO.	SECTION	COUNTY
575	05-00075-00-RS	CASS
STA: 88+00 TO		STA: 102+00
ILLINOIS		PROJECT: RS-0575(313)



ILLINOIS DEPARTMENT OF TRANSPORTATION	
COUNTY HIGHWAY 12 PROPOSED PLAN	
1"=50' DATE: 05/02/2017	DRAWN BY: KK CHECKED BY: TI SHEET 12 OF 12