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2	TYPICAL CROSS SECTIONS AND DETAILS
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STANDARDS

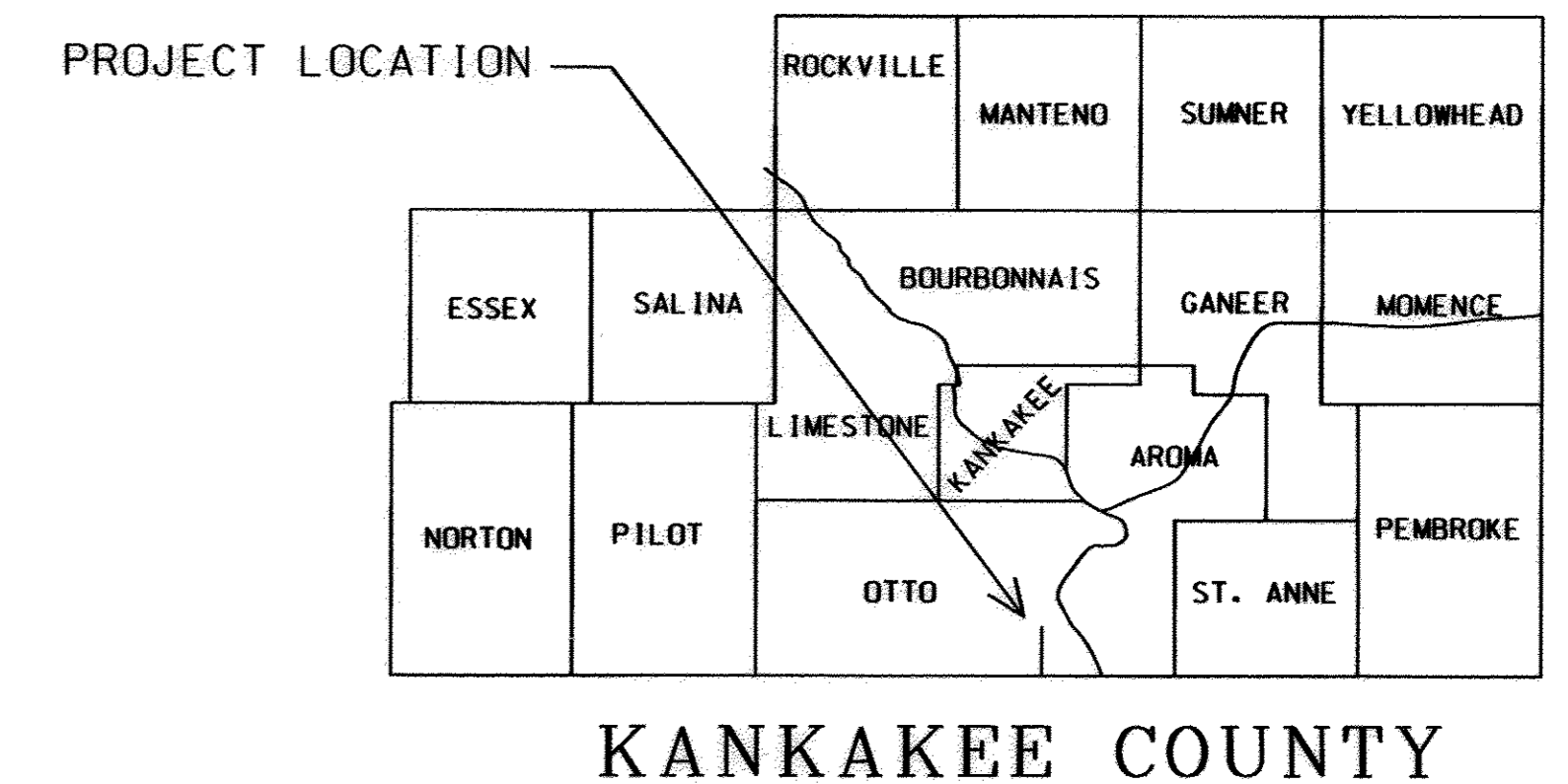
- 701301-04 Lane closure 2L.2W short time operations.
- 701306-03 Lane closure 2L.2W slow moving op day only ≥45
- 000001-06 Standard symbols, abbreviations and patterns
- 701901-06 Traffic control devices

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
COUNTY OF KANKAKEE
DEPARTMENT OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID SECONDARY PROJECT
SECTION 13-00206-02-RS
F.A.S. 1324 (CH 58)

PROJECT RS - 1324(105) JOB NO. C-93-048-16

F.A.S. ROUTE NO.	SEC.	COUNTY	NO. SHEETS	SHEET NO.
1324	*	Kankakee	4	1

ILLINOIS PROJECT
* 13-00206-02-RS



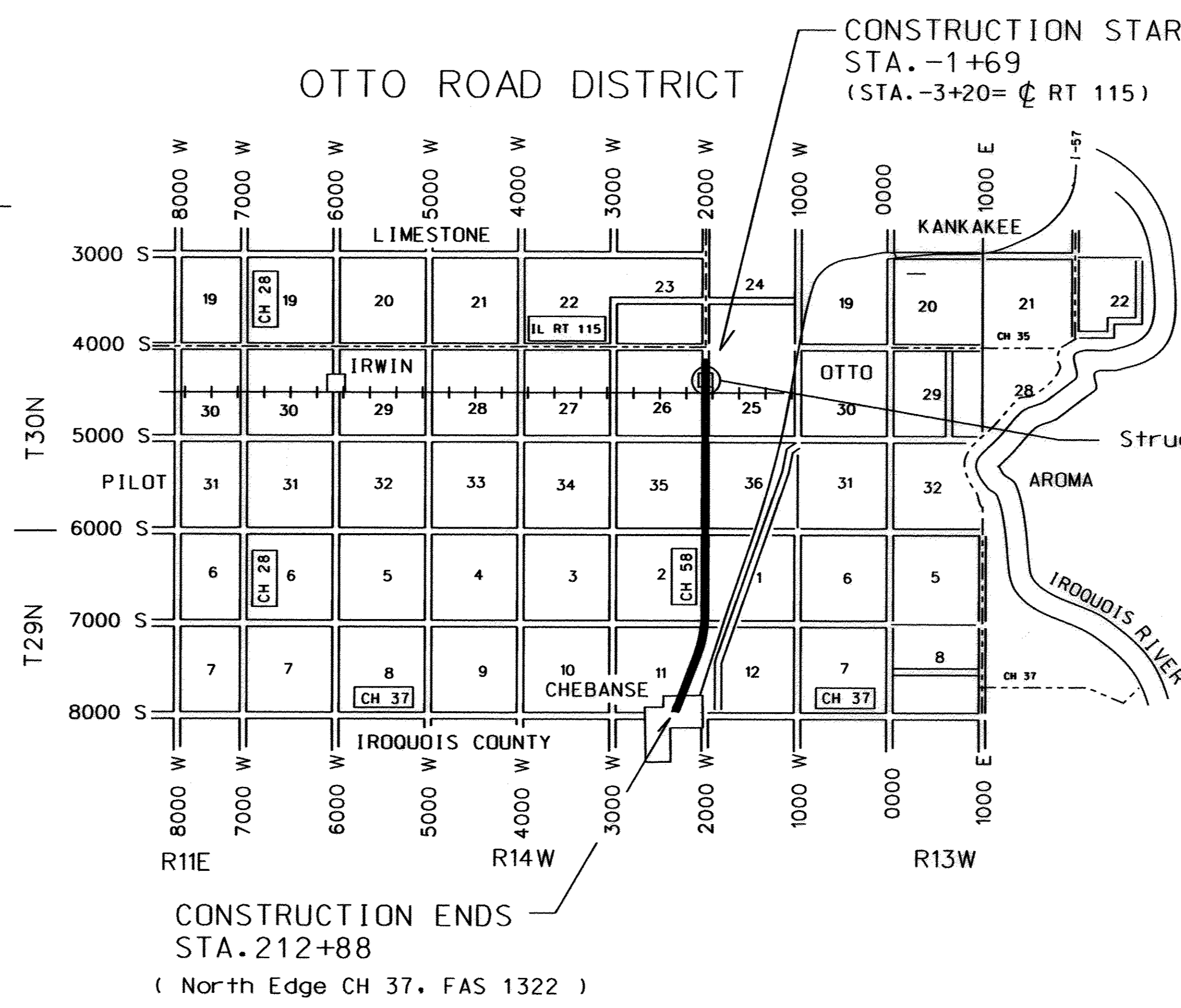
SUMMARY OF QUANTITIES

CODE NO.	Description	Quantity	Unit
40600627	LEVEL BINDER MM IL 9.5 N50	3027	TON
40600982	HMA SURFACE REMOVAL - BUTT JOINT	926	SQ YD
40600990	TEMPORARY RAMP	78	SQ YD
* 40603310	HMA SURFACE COURSE, MIXTURE C. N50	4891	TON
40800050	INCIDENTAL HOT MIX ASPHALT SURFACING	321	TON
44000155	HOT MIX ASPHALT SURFACE REMOVAL 1 1/2"	1044	SQ YD
* X4401198	HOT MIX ASPHALT SURFACE REMOVAL VARIABLE DEPTH	1012	SQ YD
* 48101200	AGGREGATE SHOULDERS, TYPE B	3702	TON
* 67100100	MOBILIZATION	1	L SUM
70100460	TRAFFIC CONTROL & PROTECTION, STANDARD 701306-03	1	L SUM
* 70300100	SHORT-TERM PAVEMENT MARKING	6435	FOOT
* 40600290	BITUMINOUS MATERIALS (TACK COAT)	39645	POUND
* Z0021700	EXPANSION JOINT REHABILITATION	24	FOOT
* Z0034105	MATERIAL TRANSFER DEVICE	7918	TON
* Z0048665	RAILROAD PROTECTION LIABILITY INSURANCE	1	L SUM

* Special Provisions
** Specialty Item

Construction Code 0005

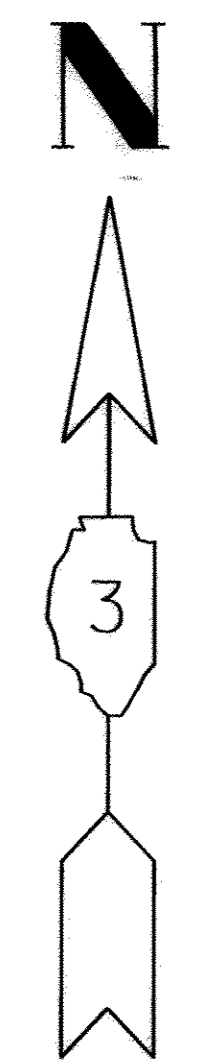
CONTRACT NO. 87647
J.U.L.I.E. 1-800-892-0123



LOCATION MAP (N.T.S.)
NET LENGTH = 21,457 LIN FT = 4.06 MILES

THE ACCEPTANCE OF THIS PROJECT IS BASED ON THE MINIMUM DESIGN CRITERIA FOR LOCAL AGENCY FUNCTIONAL OVERLAY POLICY (LAFO) PROJECTS

CLASS II ROAD
CURRENT A.D.T. = 2529
DESIGN A.D.T. = 2784
DESIGN SPEED = 55 M.P.H.
MAJOR COLLECTOR



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Submitted 02/03 2017

Mark Rogers
Mark Rogers, P.E.
County Engineer

Passed 3-7 2017

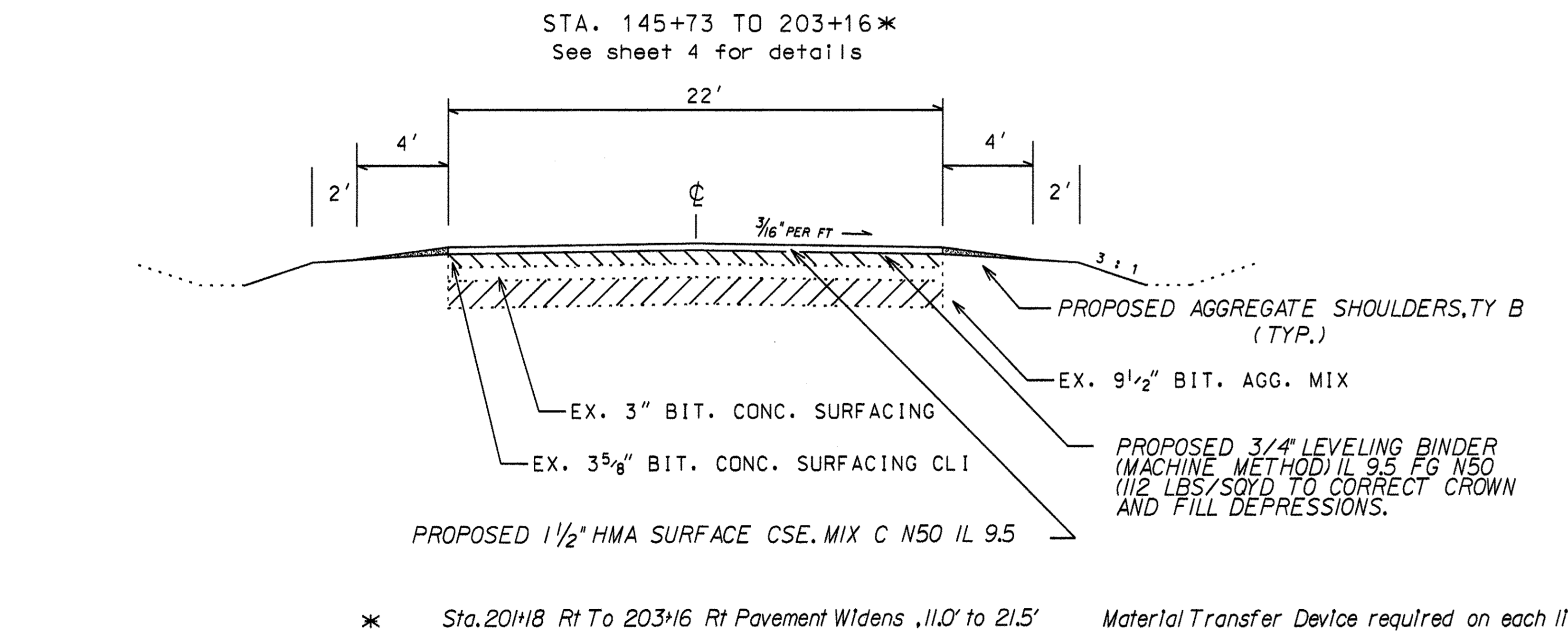
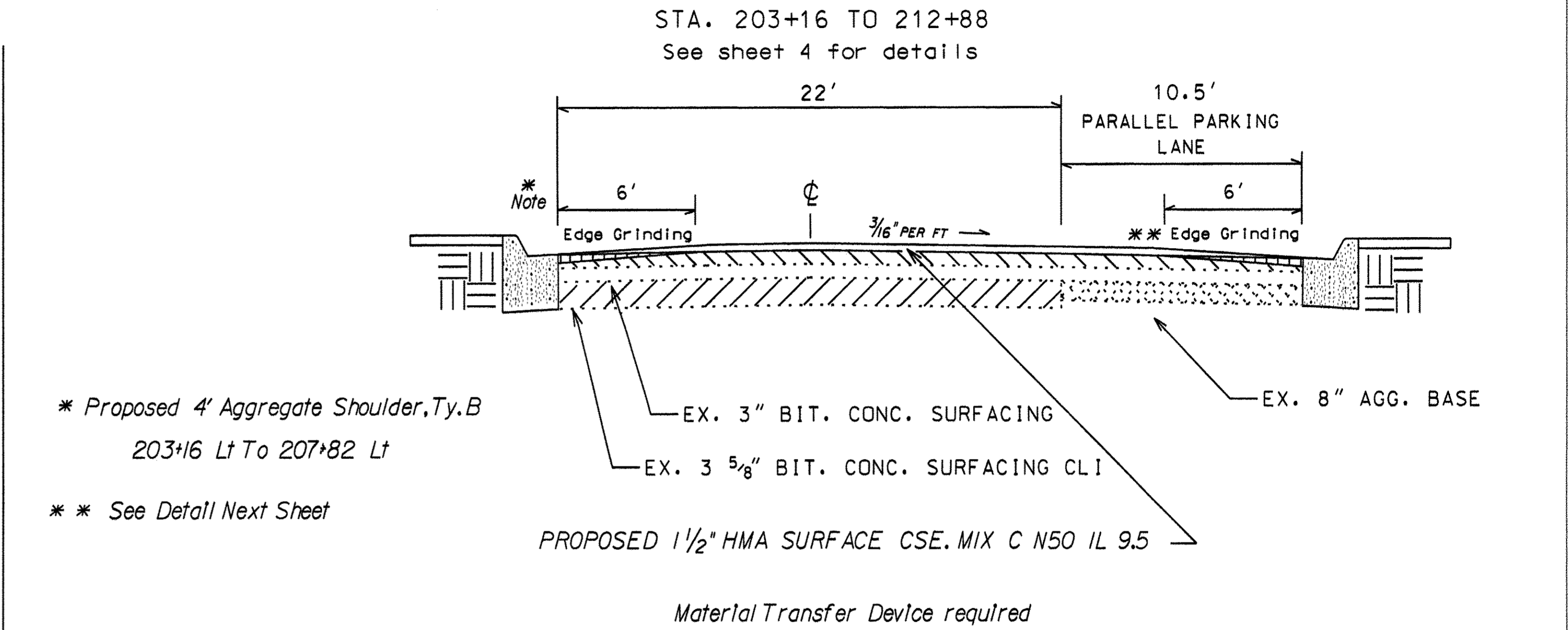
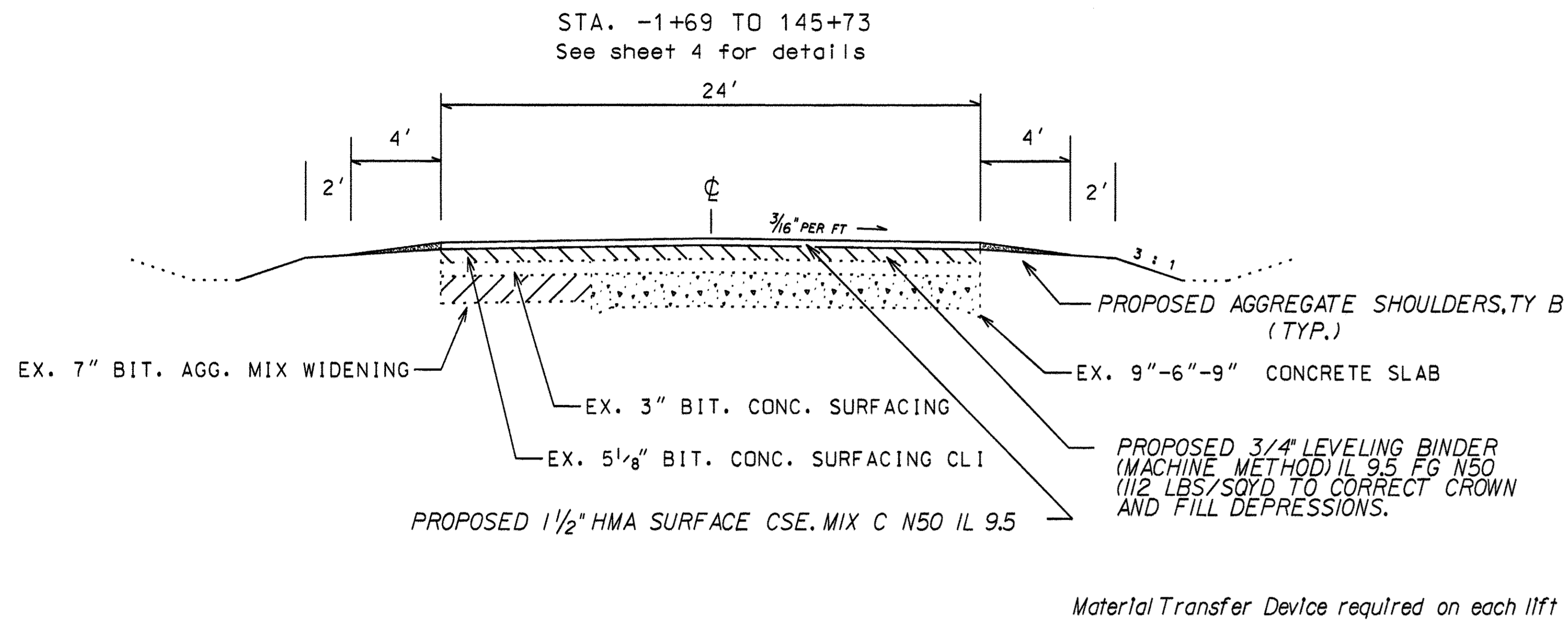
Don Ernat
Don Ernat
Local Roads & Streets Engineer

Releasing for bid based on limited review 3-7 2017

Kevin Marchek
Kevin Marchek
Region 2 Engineer

TYPICAL CROSS SECTIONS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
13-00206-02-RS	KANKAKEE	4	2



Pavement Design Data

Segment # 1 Sta. -1+69 to 145+73

Design Period = 20 Years

A.D.T. = 2529 (2017) 2784 (2027)

P.V. = 88 % = 2450 S.U. = 7 % = 195 M.V. = 5 % = 139

T.F. = 0.38 IBV = 3

SN = 3.50

PAVEMENT STRUCTURE NUMBER	
Ex. 7" Bit. Agg. Mix.	7 X 0.17 = 1.19
Ex. 3" Bit. Class I Surfacing	3 X 0.17 = 0.51
Ex. 5 1/8" Bit. Class I Surfacing	5.12 X 0.23 = 1.18
Prop. 2 1/4" Bit Conc. Surface N50	2.25 X 0.36 = 0.81
	<u>3.69</u>

Marshall Stability ≥ 1700

Pavement Design Data

Segment # 2 And # 3 Sta. 145+73 to 212+88

Design Period = 20 Years

A.D.T. = 2529 (2017) 2784 (2027)

P.V. = 88 % = 2450 S.U. = 7 % = 195 M.V. = 5 % = 139

T.F. = 0.38 IBV = 3

SN = 3.50

PAVEMENT STRUCTURE NUMBER	
Ex. 9 1/2" Bit. Agg. Mix.	9.5 X 0.17 = 1.62
Ex. 3" Bit. Class I Surfacing	3 X 0.17 = 0.51
Ex. 2 1/8" Bit. Class I Surfacing	2.12 X 0.17 = 0.36
Ex. 1 1/2" Bit Conc. Surface CL. I	1.5 X 0.23 = 0.35
Prop. 2 1/4" Bit Conc. Surface N50	2.25 X 0.36 = 0.81
	<u>3.65</u>

Marshall Stability ≥ 1700

ESTIMATED QUANTITIES ON TANGENT

ITEM	UNIT	Sta. -1+69 To 145+73	Sta. 145+73 To 203+16	Sta. 203+16 To 212+88	TOTALS
Bituminous Materials (Tack Coat)	Pound	17694 Tack / 8847 Fog **	6318 Tack / 3519 Fog **	1557 Tack / 783 Fog **	38718
Leveling Binder (MM) IL 9.5 FG N50	TON	2201	826	0	3027
Hot Mix Asphalt Surface Course C . N50	TON	3371	1225	295	4891
Aggregate Shoulders Ty. B	TON	2605	1015	* 82	3702
Short Term Pavement Marking	FOOT	1474 Prime/1474 LB/1474 Surf	574 Prime/574 LB/574 Surf	97 Prime/97 LB/97 Surf	6435

* Per Hot Mix Asphalt -Prime Coat (BMPR): Tack coat 1s figured 0.05 Lb/Sqft residual rate and Fog coat 0.025 LB/Sqft residual rate.

* 203+16 Lt To 207+82 Lt

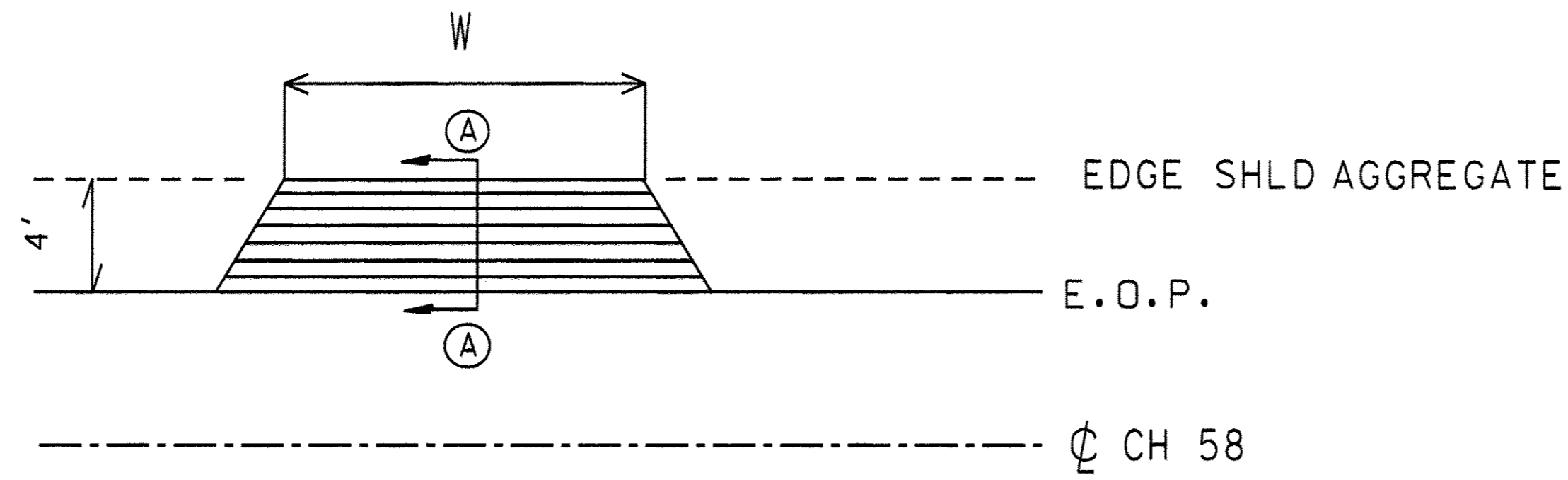
BITUMINOUS MIX	AC GRADE	MAXIMUM % RAP
Surface Course	PG 64-22	
Incidental Surfacing	PG 64-22	Per Special Provision For RAP and RAS All HMA Pay Items
Level Binder	PG 64-22	

GENERAL NOTES :

- It shall be the Contractors responsibility to determine the actual location of all utilities and notify Railroad for Flagmen.
- Permanent striping will be completed by others. Contractor will remove all short term markings at there expense after all permanent striping is in place.

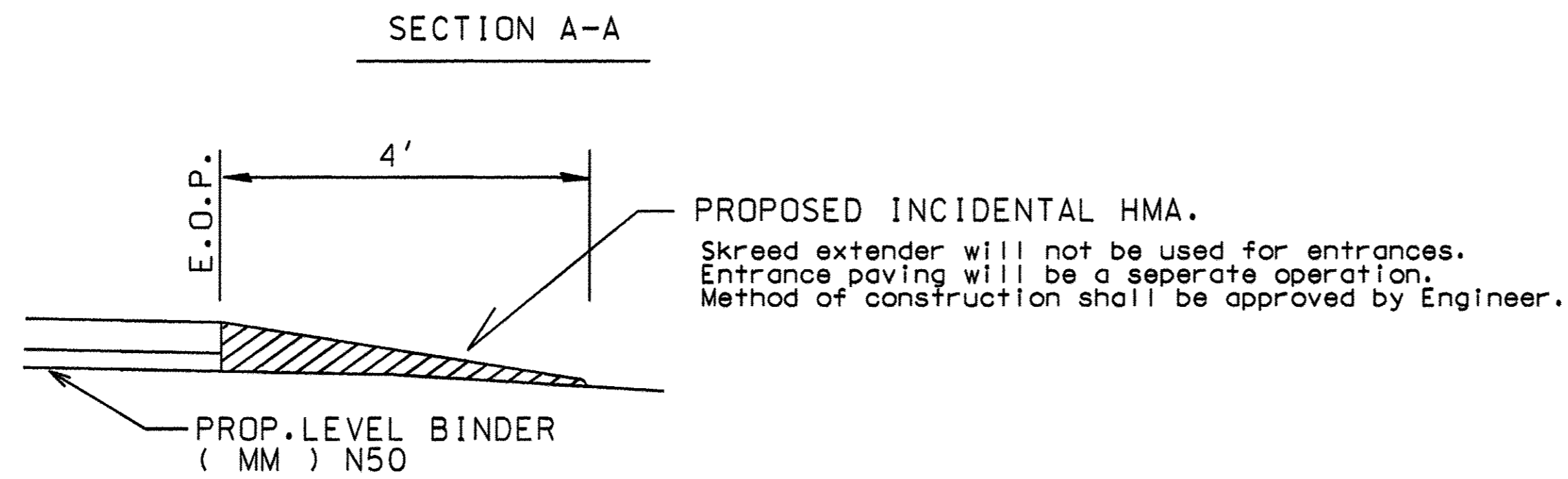
TYPICAL ENTRANCE DETAIL

W: WIDTH OF APPROACH PADS IS ESTIMATED AT 20' PER ENTRANCE. THE ACTUAL CONSTRUCTED WIDTH MAY VARY AS DIRECTED BY THE ENGINEER TO FIT THE EXISTING ENTRANCES.



ESTIMATED QUANTITIES-18 ENTRANCES		
ITEM	UNIT	QUANTITY
BITUMINOUS MATERIALS (PRIME COAT)	Pound	72
HMA SURFACE CSE. MIX C N50	TON	25

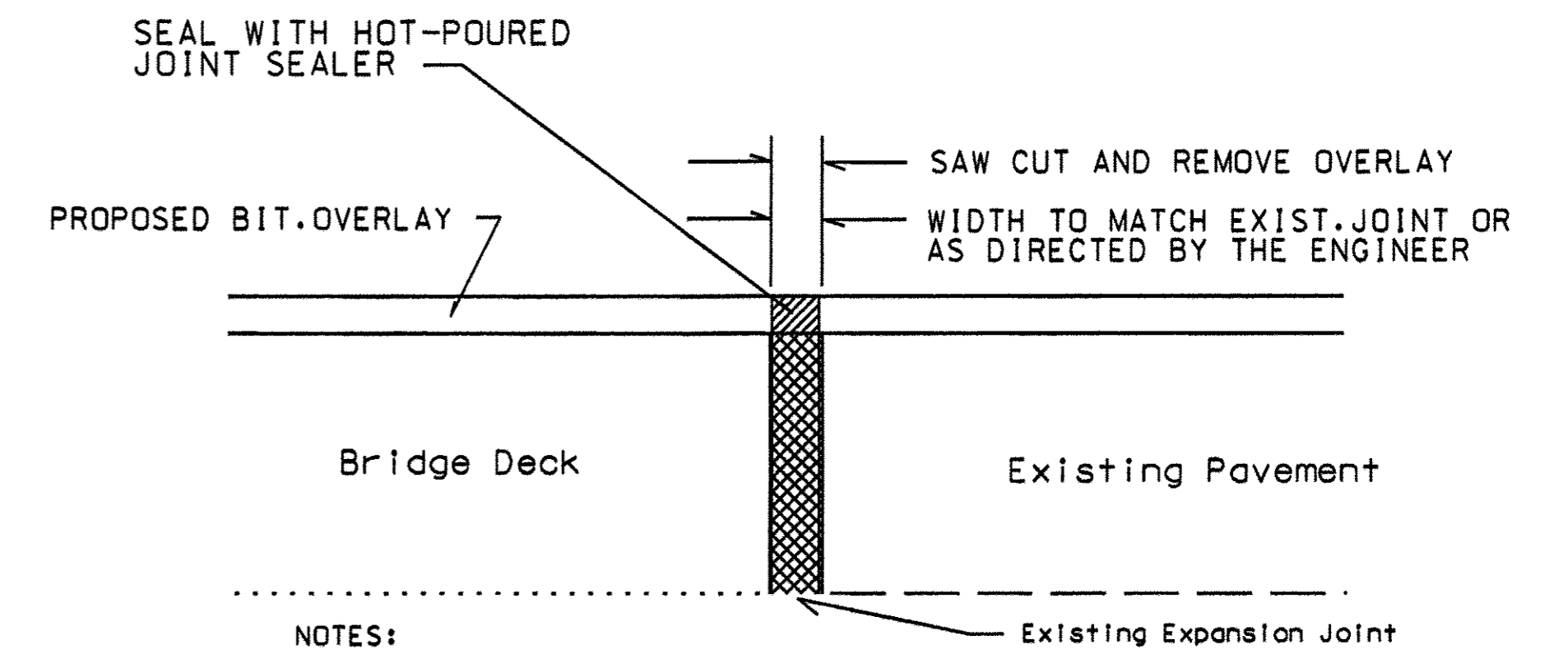
Quantities are included in Incidental HMA total.



SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
13-00206-02-RS	KANKAKEE	4	3

EXPANSION JOINT REHABILITATION DETAIL

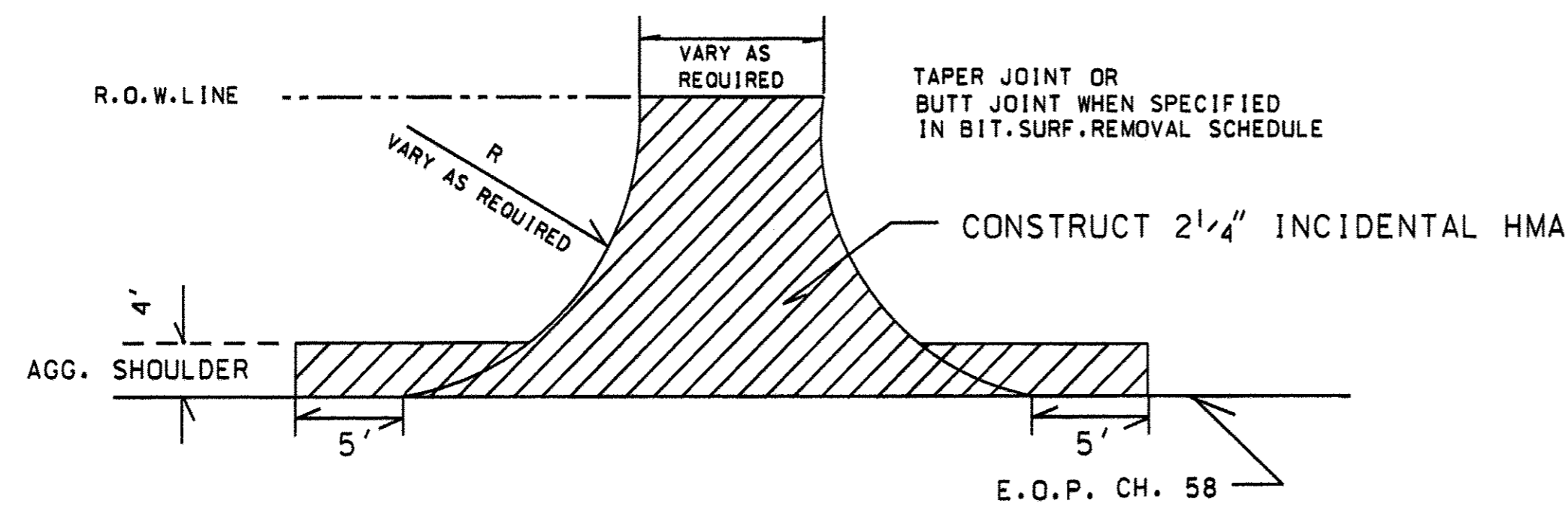
STA. 22+71 (NORTH END OF BRIDGE DECK)



NOTES:

1. THE NEW BITUMINOUS OVERLAY SHALL BE SAWED, REMOVED, AND THE JOINT AREA CLEANED. PRIOR TO PLACING THE HOT-POURED JOINT SEALER THE JOINT SHALL BE BLOWN OUT WITH COMPRESSED AIR.
2. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR EXPANSION JOINT REHABILITATION.

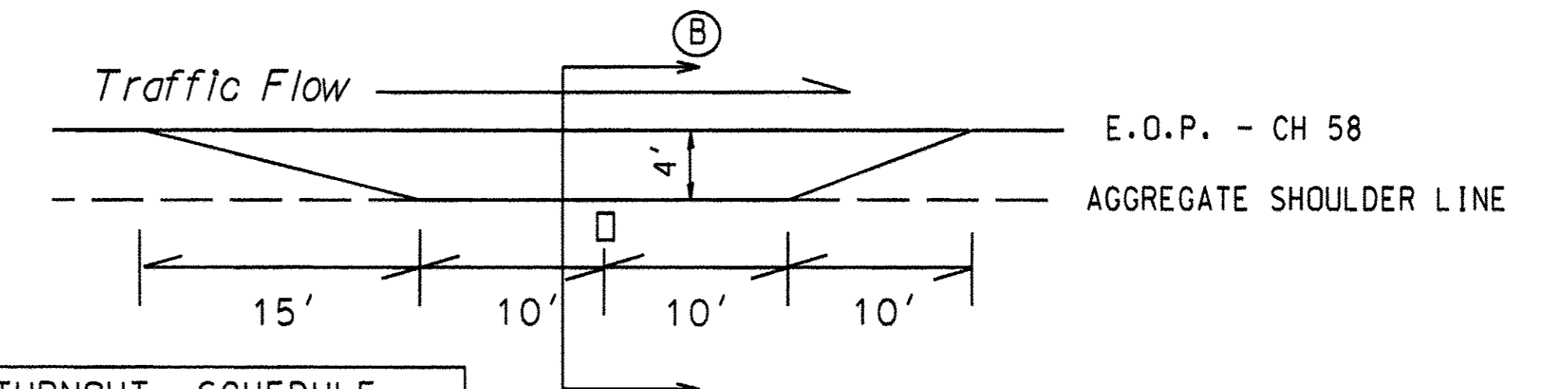
INTERSECTION DETAIL



INTERSECTION QUANTITY SCHEDULE						
STATION	SIDE	WIDTH	RADIUS	INCIDENTAL BIT. SURFACING (TON)	BIT. MATRLS. (PRIME COAT) (GAL)	LOCATION
50+44	LT	36	35	30	54	Otto Rd
50+44	RT	18	30	20	45	Otto Rd
103+83	RT	18	30	20	45	6000 S
138+68	RT	20	50	30	54	Chebasse Ag
143+83	RT	20	50	30	54	Chebasse Ag
157+86	LT	22	30	25	45	7000 S
157+86	RT	20	30	22	45	7000 S
162+70	LT	20	50	30	54	Elevator
194+55	RT	20	50	30	54	Sewer Plant
199+42	RT	20	30	22	45	Concordia
<i>Intersection Total</i>				259	495	

Quantities are included in Incidental HMA total.

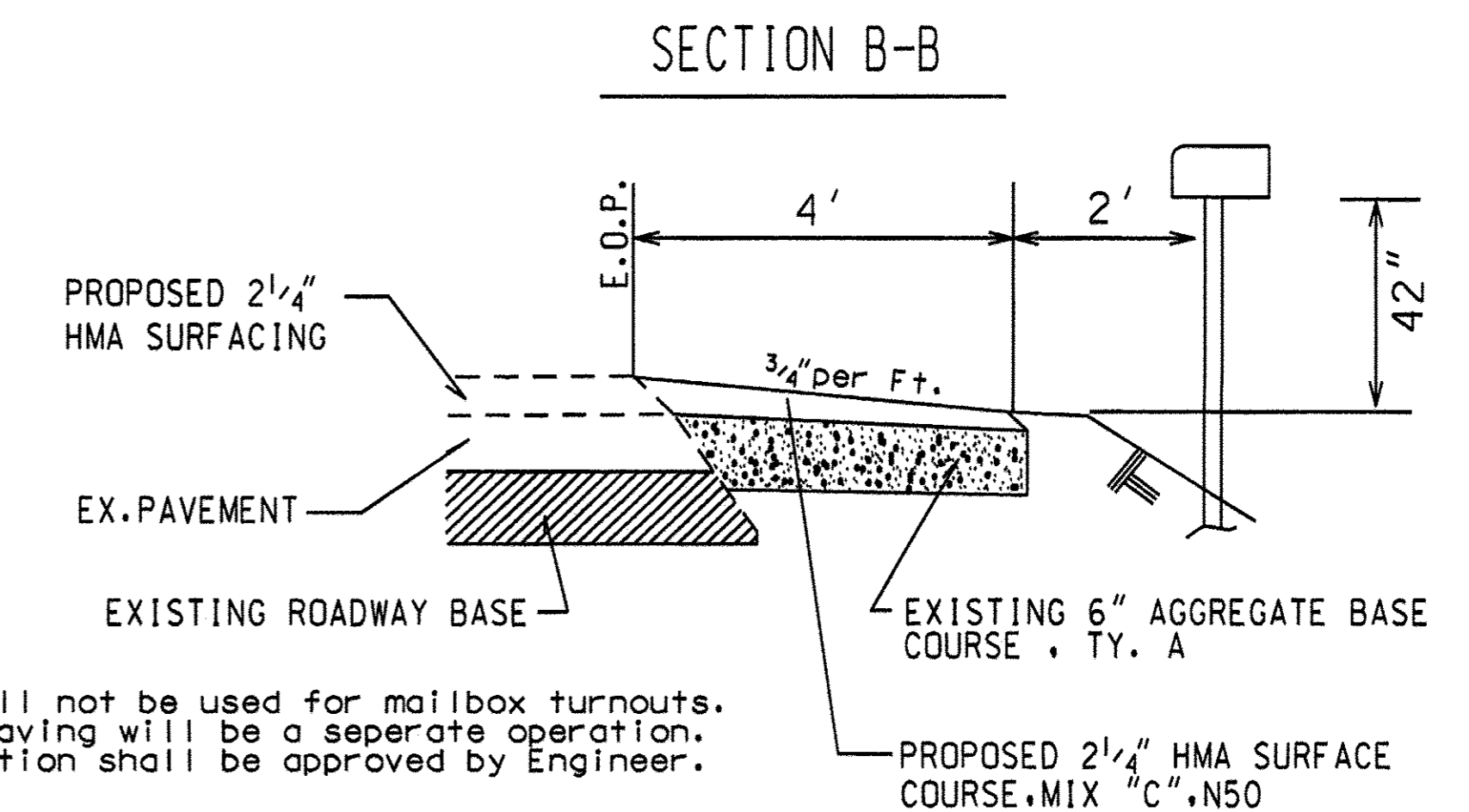
TYPICAL MAILBOX TURNOUT RESURFACING DETAIL



MAILBOX TURNOUT SCHEDULE			
STATION	SIDE	STATION	SIDE
64+35	LT *	69+36	LT *
65+44	LT *	70+78	LT *
66+57	LT *	74+12	LT
66+59	LT *	76+23	LT
66+61	LT *	90+72	LT
67+45	LT *	128+14	LT
68+43	LT *		

ESTIMATED QUANTITIES - 5 MAILBOX TURNOUTS*		
ITEM	UNIT	QUANTITY
BIT. MATERIALS (PRIME COAT)	GAL	360
HMA SURFACE CSE. MIX C N50	TON	37

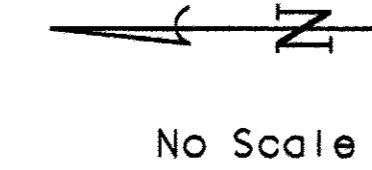
* Quantities include One Continuous 4' Wide Turnout. (Sta. 63+79 Lt to 71+00 Lt)
Quantities are included in Incidental HMA total.



Screed extender will not be used for mailbox turnouts. Mailbox turnout paving will be a separate operation. Method of construction shall be approved by Engineer.

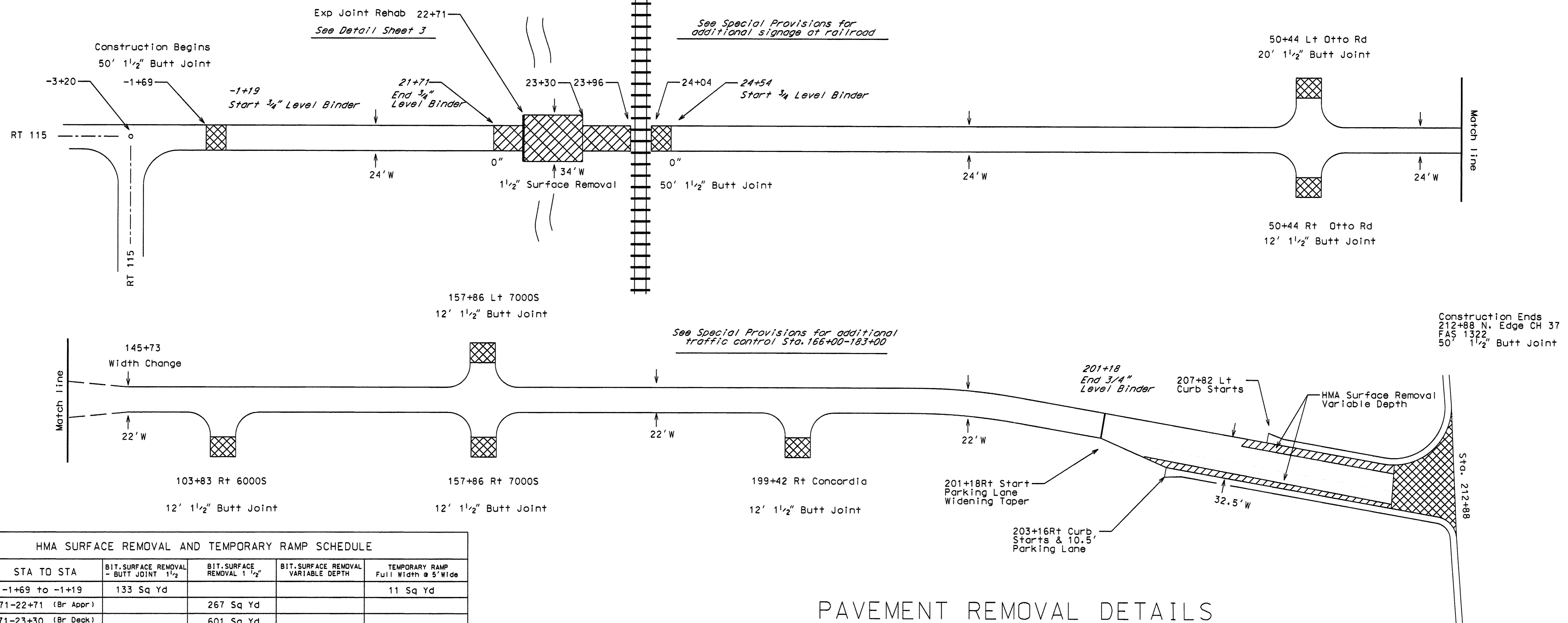
HMA REMOVAL PLAN (N.T.S.)

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
13-00206-02-RS	KANKAKEE	4	4



24+00
CN Railroad
DOT# 291 194J
ICRR Milepost E-61.66

Structure #046-0110



STA TO STA	BIT. SURFACE REMOVAL - BUTT JOINT 1 1/2"	BIT. SURFACE REMOVAL 1 1/2"	BIT. SURFACE REMOVAL VARIABLE DEPTH	TEMPORARY RAMP Full Width @ 5' Wide
-1+69 to -1+19	133 Sq Yd			11 Sq Yd
21+71-22+71 (Br Appr)		267 Sq Yd		
21+71-23+30 (Br Deck)		601 Sq Yd		
23+30-23+96 (Br Appr) (Rail Road)		176 Sq Yd		11 Sq Yd
(Rail Road) 24+04 to 24+54	133 Sq Yd			11 Sq Yd
50+44 LT 22' to LT 42'	80 Sq Yd			
50+44 RT 18' to RT 30'	24 Sq Yd			
103+83 RT 18' to RT 30'	24 Sq Yd			
157+86 LT 43' to LT 58'	37 Sq Yd			
157+86 RT 18' to RT 30'	24 Sq Yd			
199+42 RT 18' to RT 30'	24 Sq Yd			
202+66 RT to 212+58 RT (Curb)			661 Sq Yd	
207+32 LT to 212+58 LT (Curb)			351 Sq Yd	
212+58 to 212+88	447 Sq Yd			45 Sq Yd (3' Wide)
TOTAL	926 Sq Yd	1044 Sq Yd	1012 Sq Yd	78 Sq Yd

PAVEMENT REMOVAL DETAILS

