

06-13-14 LETTING ITEM 176

INDEX OF SHEETS

Sheet No.	Description
1	COVER SHEET
2	TYPICAL CROSS SECTION AND DETAILS
3	DETAILS

STANDARDS

701306-03	TRAFFIC CONTROL
701901-03	TRAFFIC CONTROL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
COUNTY OF KANKAKEE
DEPARTMENT OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID SECONDARY PROJECT
SECTION 12-00114-02-RS

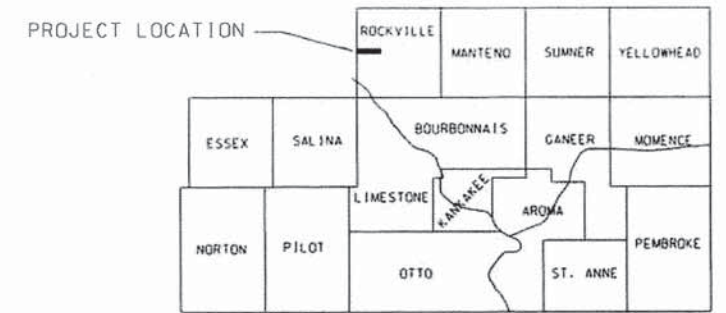
F.A.S. 311 (CH.9)

PROJECT RS -1299 (110) JOB NO. C-93-068-14

F.A.S. ROUTE NO.	SEC.	COUNTY	NO. SHEETS	SHEET NO.
311	*	Kankakee	3	1

ILLINOIS PROJECT JOB NO. C-93-068-14 CONTRACT NO. 87597

* 12-00114-02-RS



KANKAKEE COUNTY

SUMMARY OF QUANTITIES

CODE NO.	Description	Quantity	Unit
* X4060110	BITUMINOUS MATERIALS (PRIME COAT)	18424	POUND
* 40600627	LEVELING BINDER (MM), IL 9.5FG N50	1615	TON
40600982	HMA SURFACE REMOVAL - BUTT JOINT	188	SO YD
40600990	TEMPORARY RAMP	42	SO YD
* 40603310	HOT MIX ASPHALT SURFACE COURSE, MIX "C", N50	2377	TON
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	100	TON
44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	4805	SO YD
* 48101200	AGGREGATE SHOULDERS, TYPE B	1273	TON
67100100	MOBILIZATION	1	L SUM
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	1	L SUM
* 70300100	SHORT TERM PAVEMENT MARKING	2133	FOOT

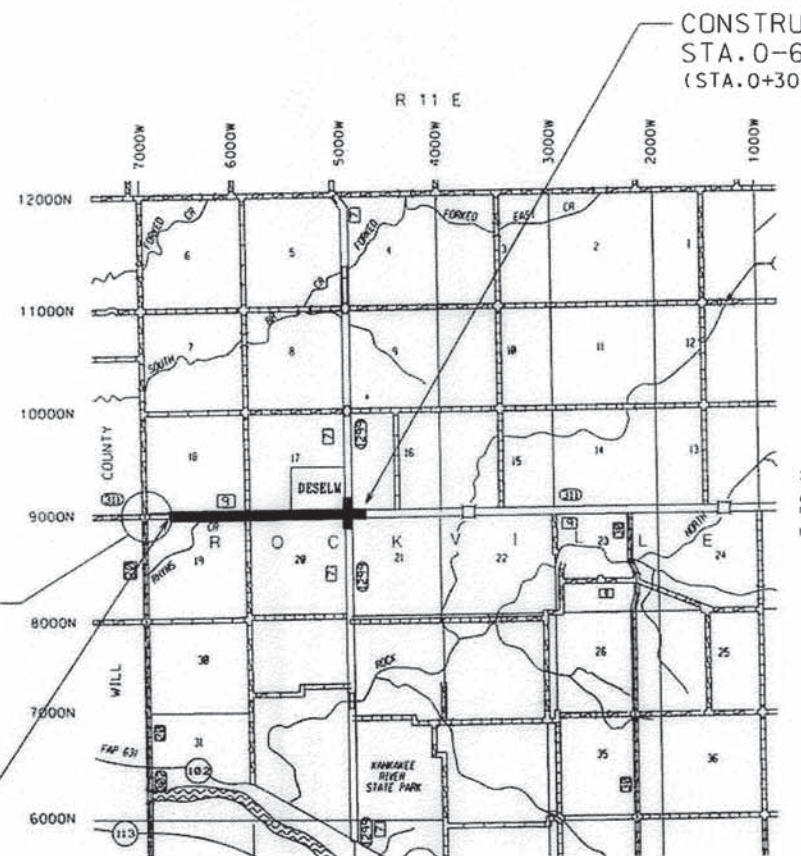
* Special Provisions
* * Specialty Item

Construction Code 0005

CONSTRUCTION ENDS
STA. 106+03/328+50 (Will Co Sta)
(STA. 107+46/327+06 = C.C.H. 20)

JOB NO. C-93-068-14
CONTRACT NO. 87597

J.U.L.I.E. 1-800-892-0123

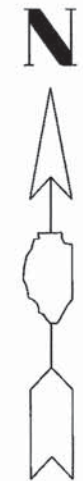


LOCATION MAP

GROSS LENGTH = 10,663 LIN FT = 2.020 MILES
NET LENGTH = 10,663 LIN FT = 2.020 MILES

THE ACCEPTANCE OF THIS PROJECT IS BASED ON THE MINIMUM DESIGN CRITERIA FOR LOCAL AGENCY PAVEMENT PRESERVATION POLICY (L.A.F.O.) PROJECTS

CLASS II ROAD
CURRENT A.D.T. = 2400
DESIGN A.D.T. = 2599
DESIGN SPEED = 55 M.P.H.
MAJOR COLLECTOR



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Submitted 03/24 2014

Mark R. Rogers
Mark R. Rogers, P.E.
County Engineer

Passed 4/9 2014

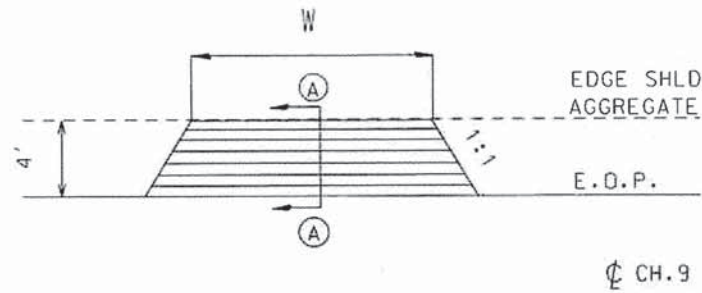
Donald R. Ernat
Donald R. Ernat
District 3, Local Roads & Streets Engineer

Releasing for bid based on limited review 4/9 2014

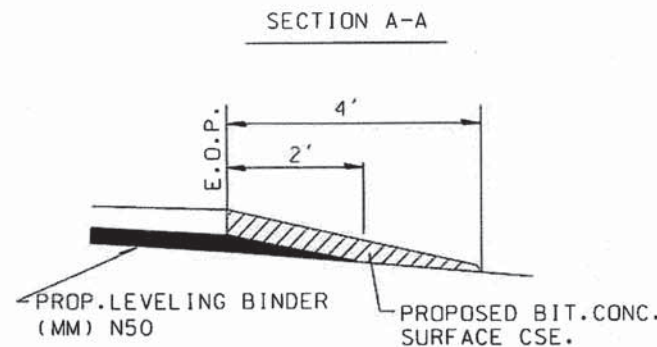
Paul A. Loete
Paul A. Loete
Deputy Director of Highways, Region Two Engineer

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- 15 ENTRANCES		
ITEM	UNIT	QUANTITY
BITUMINOUS MATERIALS (PRIME COAT)	POUND	15
LEVELING BINDER(MM) N50	TON	5
HMA SURFACE CSE. MIX "C" N50	TON	20

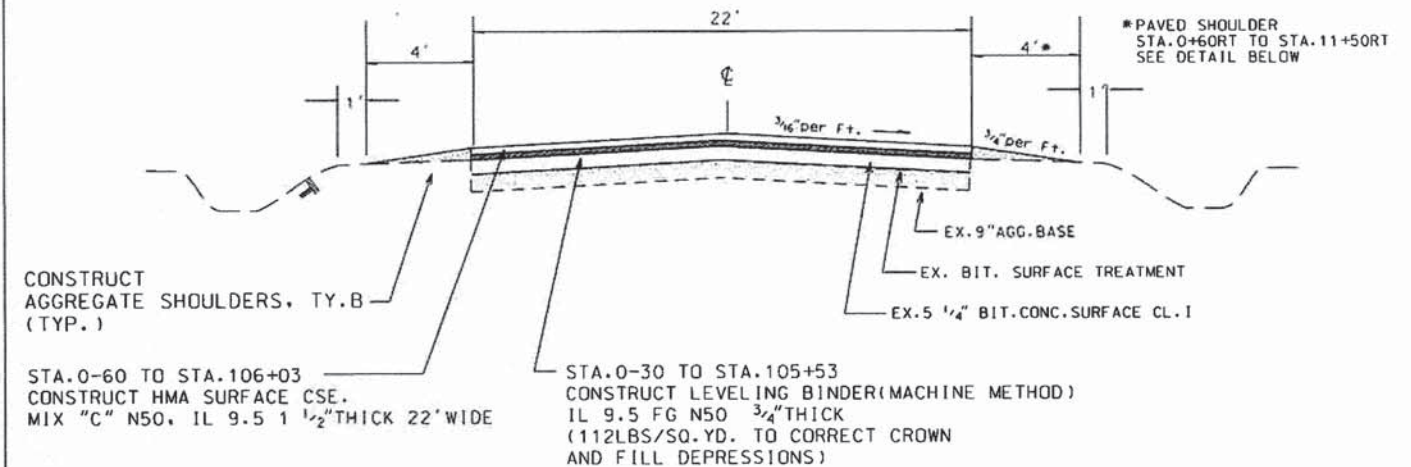


SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12-00114-02-RS	KANKAKEE	3	2

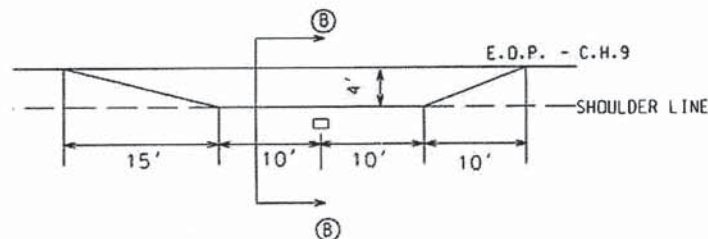
TYPICAL CROSS SECTIONS

TYPICAL CROSS SECTION

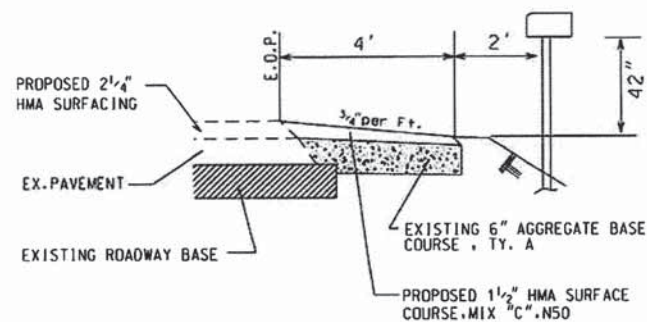
STA 0+60 TO STA 106+03



TYPICAL MAILBOX TURNOUT DETAIL



SECTION B-B

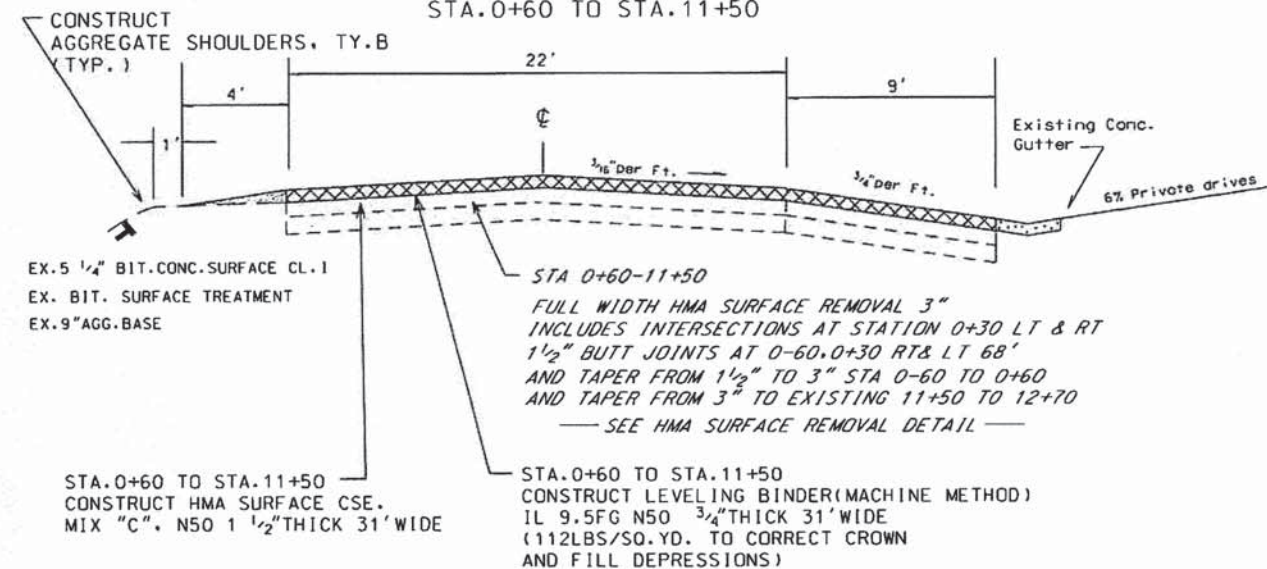


MAILBOX TURNOUT SCHEDULE			
STATION	SIDE	STATION	SIDE
13+09	RT	65+19	LT
17+18	RT	80+35	LT
18+15	RT	84+01	LT
28+23	RT	87+61	LT
30+20	RT	93+79	LT
35+84	RT	96+81	LT
38+56	RT	100+33	LT
42+14	RT		

ESTIMATED QUANTITIES - 15 MAILBOX TURNOUTS		
ITEM	UNIT	QUANTITY
BIT. MATERIALS (PRIME COAT)	POUND	96
HMA SURFACE CSE. MIX "C" N50	TON	25

TYPICAL CROSS SECTION - PAVED SHOULDER

STA. 0+60 TO STA. 11+50

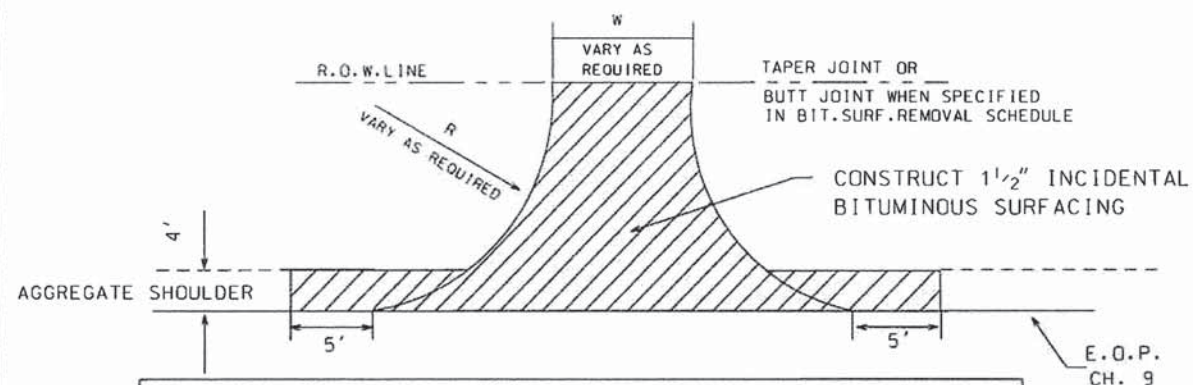


ESTIMATED QUANTITIES ON TANGENTS

ITEM	UNIT	QUANTITY
AGGREGATE SHOULDERS TY. B	TON	1273
BITUMINOUS MATERIALS (PRIME COAT)	POUND	18231
LEVELING BINDER N50	TON	1610
HMA SURFACE CSE. MIX "C" N50	TON	2332
SHORT-TERM PAVEMENT MARKING	FOOT	2133

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12-00114-02-RS	KANKAKEE	3	3

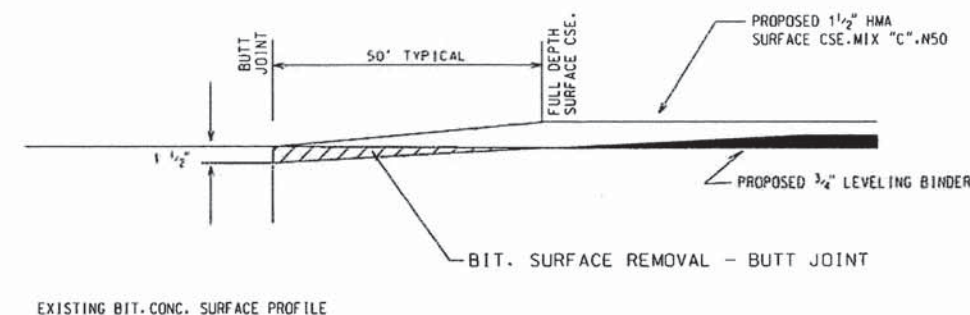
INTERSECTION DETAIL



STATION	SIDE	WIDTH	RADIUS	INCIDENTAL BIT. SURFACING (TON)	BIT. MATRLS. (PRIME COAT) (POUND)	LOCATION
0+30	LT	20	40	30	6	5000W
0+30	RT	20	40	30	25	5000W
53+30	LT	20	30	20	12	6000W
53+30	RT	20	30	20	12	6000W
TOTALS				100	82	

	HMA LEVEL BINDER	HMA SURFACE	INCIDENTAL HMA
PG GRADE	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION	IL 9.5FG	IL 9.5	IL 9.5
FRICTION AGGREGATE		MIXTURE C	
DENSITY TEST METHOD	CORES/NUCLEAR	CORES/NUCLEAR	SATISFACTION OF ENGINEER

TYPICAL BUTT JOINT DETAIL



STATION	BIT. SURFACE REMOVAL - BUTT JOINT (SQ. YD.)	BIT. SURFACE REMOVAL - 3" (SQ. YD.)*	TEMPORARY RAMP (SQ. YD. - 3' WIDE)
0-60 TO 12+70		4805	7
0+30LT 68'	Quantity Included in HMA Surface Removal 3"		7
0+30RT 68'	Quantity Included in HMA Surface Removal 3"		7
53+30LT 30' TO 45'	33		7
53+30RT 30' TO 45'	33		7
105+53 TO 106+03	122		7
TOTALS	188	4805	42

* Includes butt joints at 0-60 and intersection at 0+30 Lt & Rt SEE DETAIL BELOW

GENERAL NOTES:

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL UTILITY LOCATIONS.

Pavement Design Data

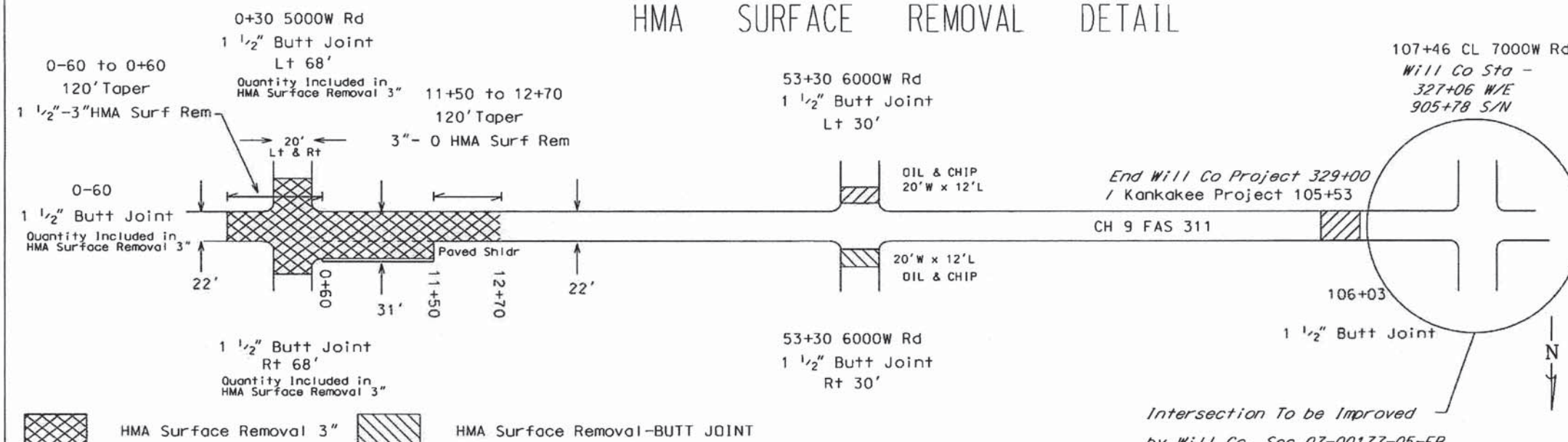
Design Period = 15 Years
 ADT = 2400 (2013) 2599 (2021)
 P.V. = 88% = 2287 S.U. = 7% = 182 M.U. = 5% = 130
 IBV = 4.8
 T.F. = 0.53
 SN = 3.35

Pavement Structure Number

Ex. 9" Agg. Base (crushed)	9 x 0.08 = 0.72
Ex. 1" Bit. Surface Treatment	1 x 0.15 = 0.15
Ex. 5 1/4" Bit. Conc. CL.I Surfacing	5.25 x 0.30 = 1.58
Prop. 2 1/4" Bit. Conc. Surface N50	2.25 x 0.40 = 0.90
	<u>3.35</u>

Marshall Stability ≥ 1700

HMA SURFACE REMOVAL DETAIL



Intersection To be Improved by Will Co. Sec 07-00177-05-FP