

INDEX OF SHEETS 08-03-12 LETTING ITEM 010

ROUTE NO. FAS 1322	SECTION 08-00222-02-RS & 08-00219-01-RS	COUNTY IROQUOIS	TOTAL SHEETS 5	SHEET NO. 1
JOB # C-93-087-12		PROJECT RS-1322(126)		

SHEET NUMBER	DESCRIPTION
1	COVER SHEET -- LOCATION MAP
2	SUMMARY OF QUANTITIES, GENERAL NOTES, MIXTURE TABLE, AND BUTT JOINTS
3 & 4	TYPICAL X-SECTIONS
5	TYPICAL ENTRANCES, SIDE ROAD INTERSECTIONS, MAIL BOX TURNOUTS, HMA BUTT JOINT QUANTITIES & STRIPING QUANTITIES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
PLANS FOR PROPOSED IMPROVEMENT  
OF FEDERAL AID SECONDARY HIGHWAY 1322  
SURFACE TRANSPORTATION PROGRAM - RURAL  
IROQUOIS COUNTY HIGHWAY PROJECT

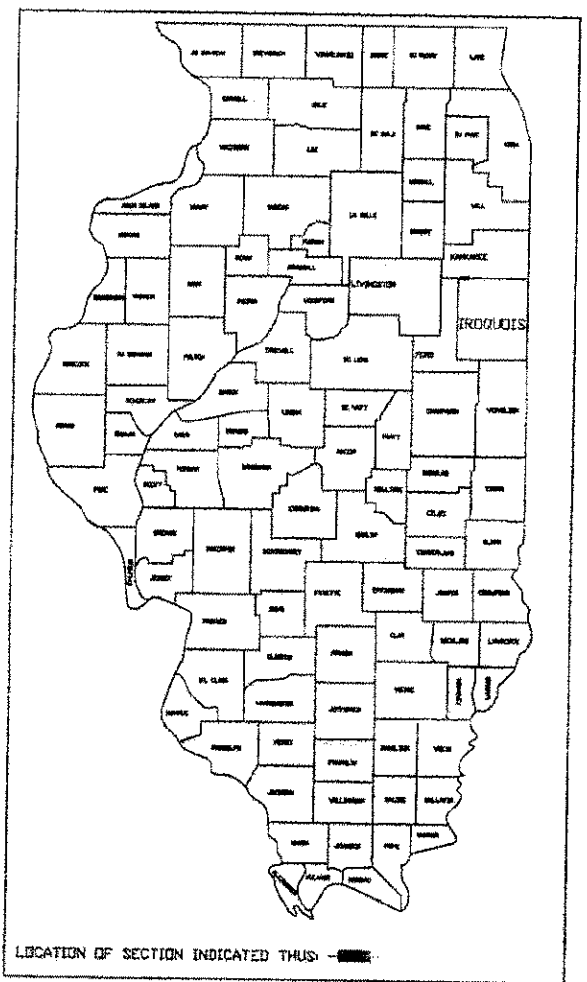
ROUTE	FAS 1322, CH 37
SECTION	08-00222-02-RS & 08-00219-01-RS
PROJECT	RS-1322(126)
JOB NUMBER	C-93-087-12

GROSS LENGTH OF SECTION: 08-00222-02-RS = 10,441.00 FT. = 1.977 MI.  
OMISSION LENGTH = 400.0 FT. = .075 MI.  
NET LENGTH OF SECTION: 08-00222-02-RS = 10,041.00 FT. = 1.902 MI.

GROSS LENGTH OF SECTION: 08-00219-01-RS = 10,539.00 FT. = 1.996 MI.  
GROSS LENGTH OF BOTH IMPROVEMENTS = 20,980.00 FT. = 3.973 MI.  
NET LENGTH OF BOTH IMPROVEMENTS = 20,580.00 FT. = 3.898 MI.

STANDARDS

000001-06	SYMBOLS AND ABBREVIATIONS
701301-04	LANE CLOSURE, 2L 2W, SHORT TIME OPERATION, FOR SPEEDS > 45 MPH
701306-03	LANE CLOSURE, 2L 2W, SLOW MOVING DAY ONLY OPERATION, FOR SPEEDS > 45 MPH
701901-02	TRAFFIC CONTROL DEVICES
780001-03	TYPICAL PAVEMENT MARKINGS
BLR 24-2	MAILBOX TURNOUT

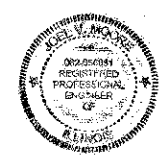
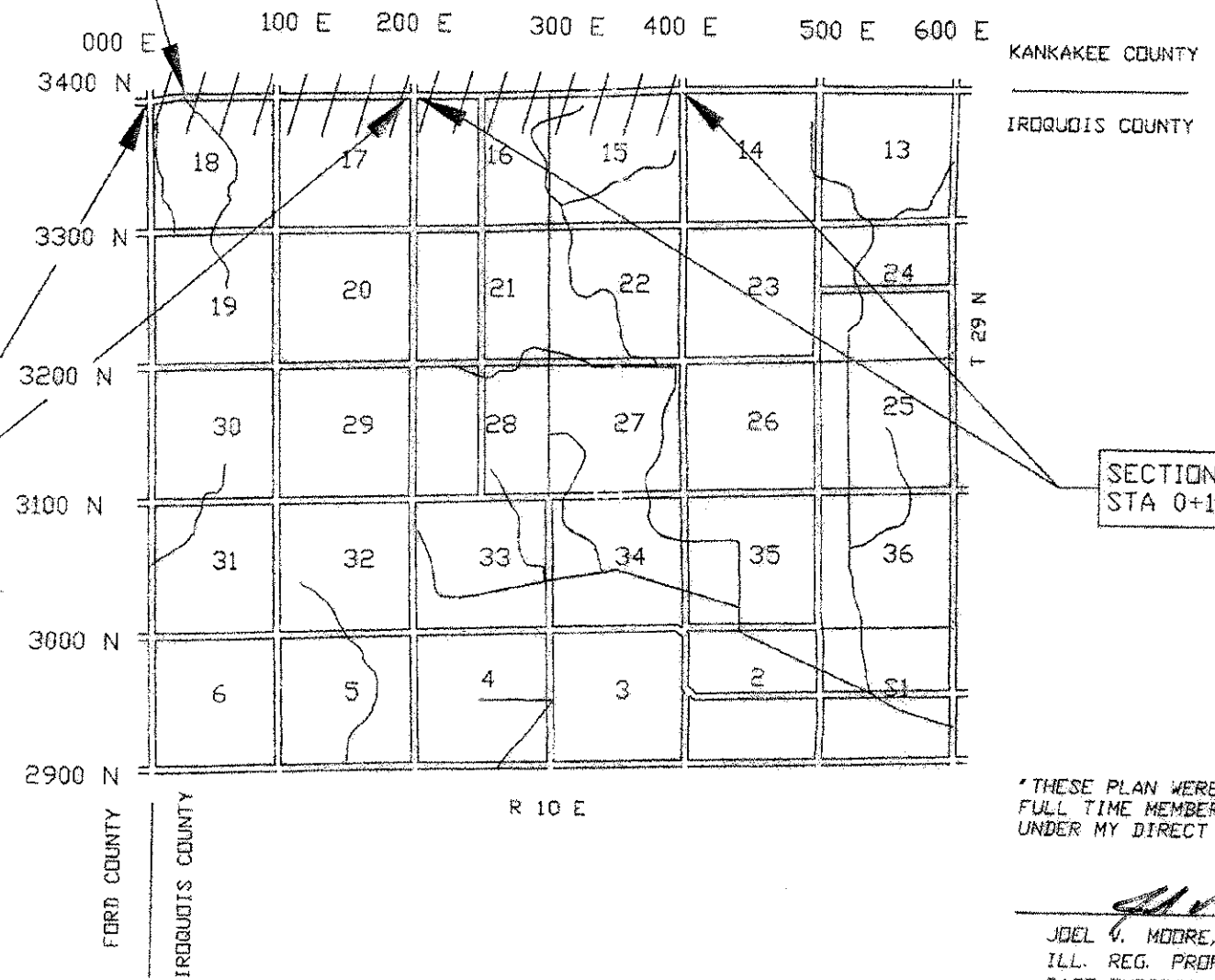


MAJOR COLLECTOR 2009 ADT = 400  
PV = 88% SU = 7% MU = 5%

BRIDGE OMISSION  
STA 23+85 TO 27+85  
S.N. 038-4809

SECTION: 08-00222-02-RS  
STA 9+50 TO 113+91

SECTION: 08-00219-01-RS  
STA 0+11 TO 105+50



"THESE PLAN WERE PREPARED BY ME OR BY A FULL TIME MEMBER OF MY STAFF WORKING UNDER MY DIRECT SUPERVISION"

JOEL V. MOORE, COUNTY ENGINEER  
ILL. REG. PROF. ENG. #62056831  
DATE EXPIRES: 11/30/13

CONTRACT 87526

Approved May 22 2012  
*Joel V. Moore*  
County Engineer

Passed May 29 2012  
*Joel V. Moore*  
DISTRICT THREE IMPLEMENTATION ENGINEER  
RELEASED FOR BID  
BASED ON LIMITED REVIEW May 29 2012  
*Joel V. Moore*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION TWO ENGINEER

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

- NOTES:
- JULIE # 1-800-892-0123
- KNOWN UTILITIES  
EASTERN ILLINI ELECTRIC CO-DP  
VERIZON NORTH  
NICOR  
AMEREN CIPS  
COMED  
MIDWESTERN GAS  
CONTRACT 87526

SUMMARY OF QUANTITIES			FUND CODE	0005
ITEM #	CODE #	ITEM	UNIT	QUANTITY
*1	LR400740	COLD IN PLACE RECYCLING, 4.0'	SQ YD	49,950
*2	LR400005	CIR-FDR EMULSIFIED ASPHALT	GALLON	84,900
3	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	5,650
4	40600300	AGGREGATE (PRIME COAT)	TON	200
*5	40600625	LEVEL BINDER (MACHINE METHOD), N50	TON	4,200
*6	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	732
7	40600990	TEMPORARY RAMP	SQ YD	90
*8	40603310	HOT-MIX ASPHALT SURFACE COURSE MIX 'C' N50	TON	3,600
*9	40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	236
*10	48101200	AGGREGATE SHOULDERS, TYPE B	TON	3,400
11	67100100	MOBILIZATION	L SUM	1
*12	X7010216	TRAFFIC CONTROL AND PROTECTION, SPECIAL	L SUM	1
13	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	6,175
14	70300220	TEMPORARY PAVEMENT MARKING - LINE 4'	FOOT	6,642
*15	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	686
^16	78001110	PAINT PAVEMENT MARKING - LINE 4'	FOOT	6,642
Δ17	Z0076600	TRAINEES	HR	1,000

\* SEE SPECIAL PROVISIONS

Δ FUND CODE 0042

^ SPECIALTY ITEMS

### GENERAL NOTES

THE THICKNESS OF HOT-MIX ASPHALT MIXTURES SHOWN ON THE TYPICAL X-SECTION IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE.

THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA & CIR LIFTS.

FOR ALL PAVEMENT MARKINGS ON FINAL SURFACES (I.E., MAINLINE PAVEMENT), ONLY TEMPORARY PAVEMENT MARKING TAPE SHALL BE USED.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN ASSUMED IN CALCULATING PLAN QUALITIES:		
GRANULAR MATERIALS	2.05	TONS/CU YD
BITUMINOUS MATERIALS PRIME COAT	0.05	GAL/SQ YD
AGGREGATE PRIME COAT	0.002	TONS/SQ YD
LEVELING BINDER (MACHINE METHOD)	112	LBS/SQ YD/INCH
HOT MIX ASPHALT SURFACE COURSE	112	LBS/SQ YD/INCH
SHORT TERM PAVEMENT MARKING	4	FT/40 FT OF APPLICATION
PAINT PAVEMENT MARKING - LINE 4'	10	FT/40 FT OF APPLICATION
ENGINEERED ASPHALT EMULSION	1.70	GAL/SQ YD

### STRUCTURAL OVERLAY

FLEXIBLE PAVEMENT IN PLACE RECYCLING FOR CLASS III ROADS USING CHAPTER 46-6

DESIGN PERIOD D. P. = 20 YEARS

DESIGN YEAR = 2022 PV=88% SU=7% MU=5%

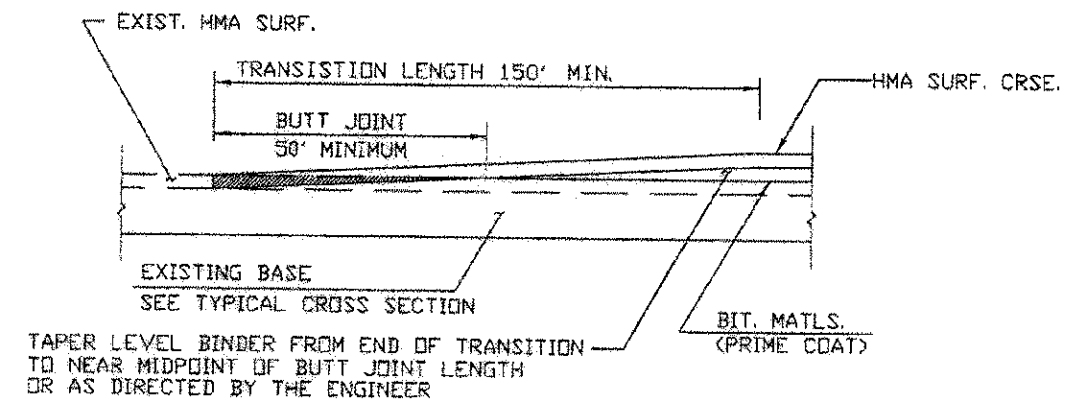
DESIGN ADT = 600 IBV = 2.00 TRAFFIC FACTOR = 0.16

SN<sub>F</sub> = 3.50 SN<sub>R</sub> = 2.38 D<sub>o</sub> = 2.80

### MIXTURE TABLE

	HMA LEVEL BINDER	HMA SURFACE
PG GRADE	PG64-22	PG64-22
DESIGN AIR Voids	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION	IL 9.5	IL 12.5 DR IL 9.5
FRICITION AGGREGATE		MIXTURE C
DENSITY TEST METHOD	GROWTH CURVE	GROWTH CURVE

### HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



### SECTION NOTES

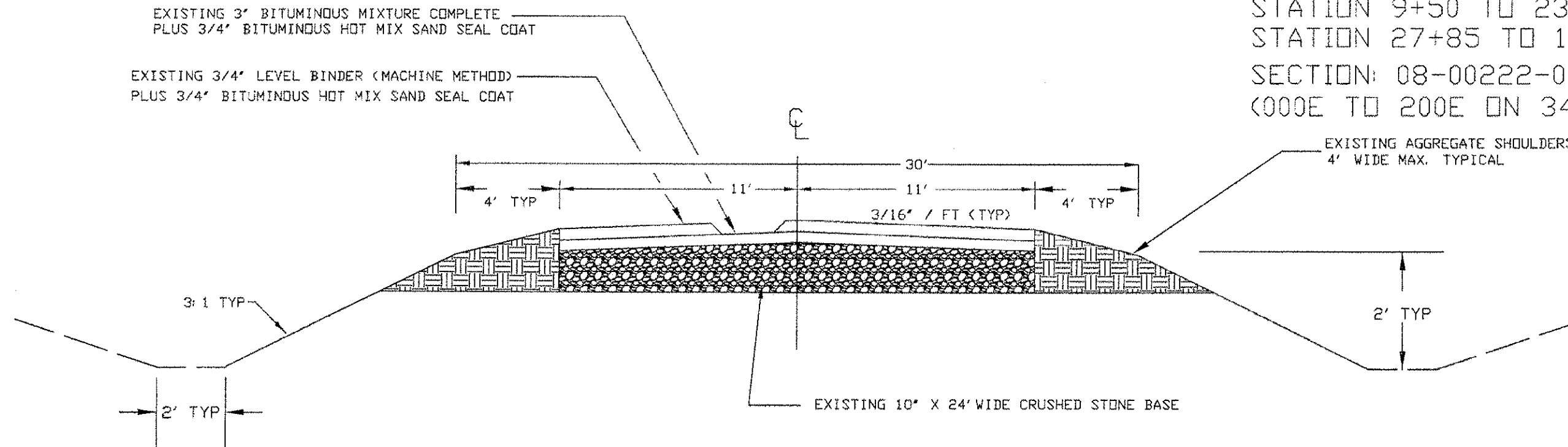
THE PROPOSED IMPROVEMENT CONSISTS OF COLD IN PLACE RECYCLING, LEVELING BINDER, HOT MIX ASPHALT SURFACE COURSE INCLUDING SHOULDER STONE AND ALL WORK NECESSARY TO COMPLETE THE PROJECT ACCORDING TO THE PLANS AND SPECIFICATIONS.

COUNTY HIGHWAY 37 WAS CONSTRUCTED UNDER SECTIONS:  
SECTION 219: 219G, 219Q, 219-01 AND 92-00219-00-SM  
SECTION 222: 222G, 222-Q AND 88-00222-01-RS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1322	08-00222-02-RS & 08-00219-01-RS	IRROQUOIS	5	3
JOB # C-93-087-12			PROJECT RS-1322(126)	
CONTRACT 87526				

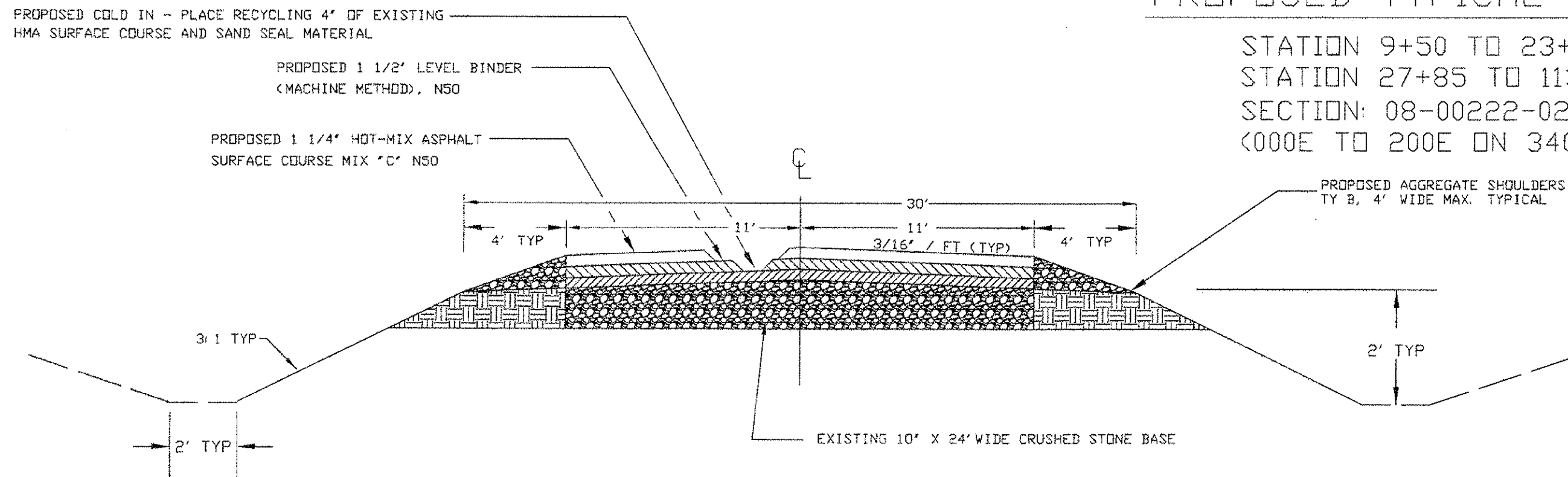
## EXISTING TYPICAL SECTION

STATION 9+50 TO 23+85  
 STATION 27+85 TO 113+91  
 SECTION: 08-00222-02-RS  
 (000E TO 200E ON 3400N)



## PROPOSED TYPICAL SECTION

STATION 9+50 TO 23+85  
 STATION 27+85 TO 113+91  
 SECTION: 08-00222-02-RS  
 (000E TO 200E ON 3400N)



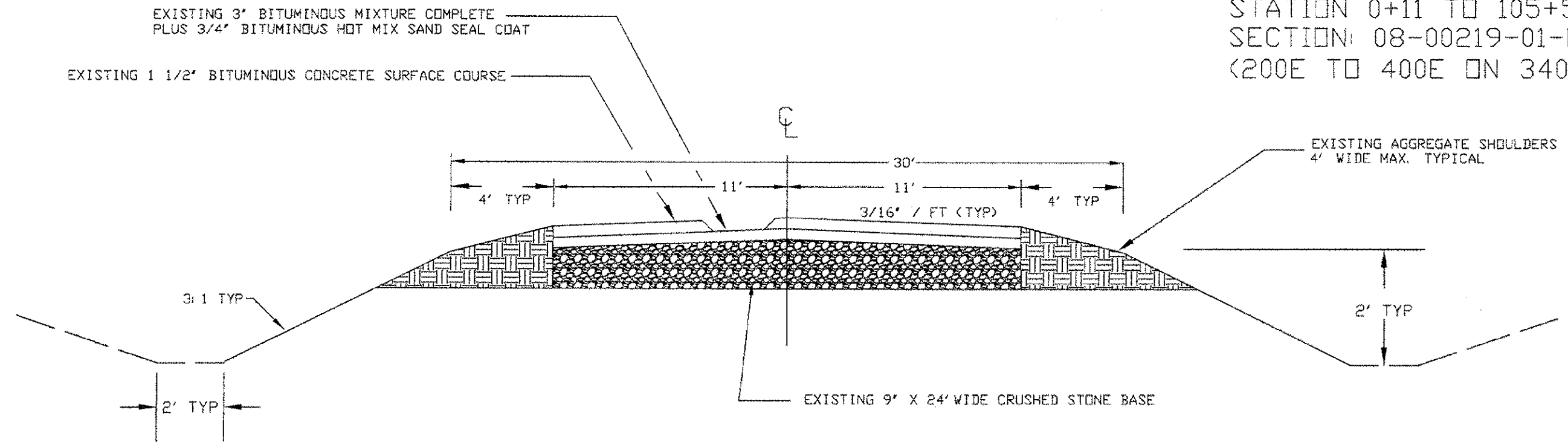
ROUTE NO. FAS 1322	SECTION 08-00222-02-RS & 08-00219-01-RS	COUNTY IROQUOIS	TOTAL SHEETS 5	SHEET NO. 4
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JOB # C-93-087-12 PROJECT RS-1322(126)

CONTRACT 87526

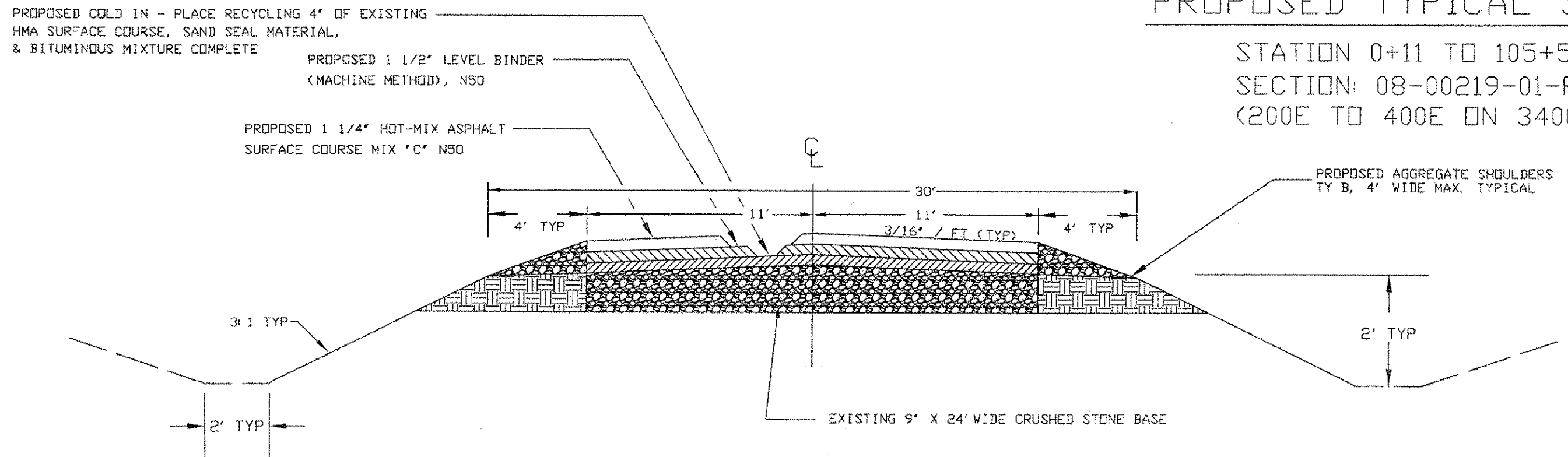
## EXISTING TYPICAL SECTION

STATION 0+11 TO 105+50  
SECTION: 08-00219-01-RS  
(200E TO 400E ON 3400N)



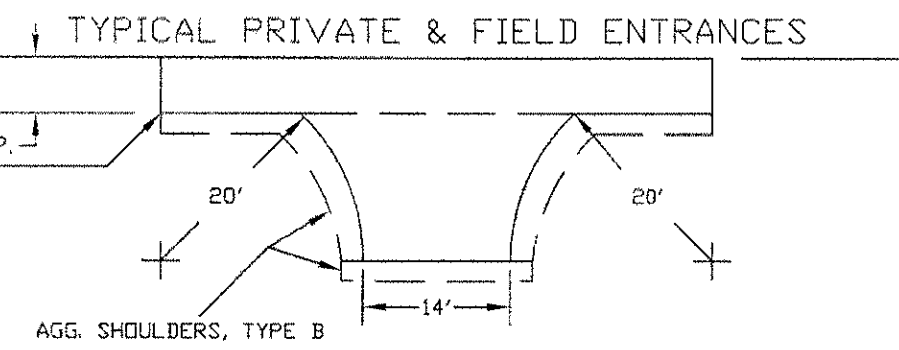
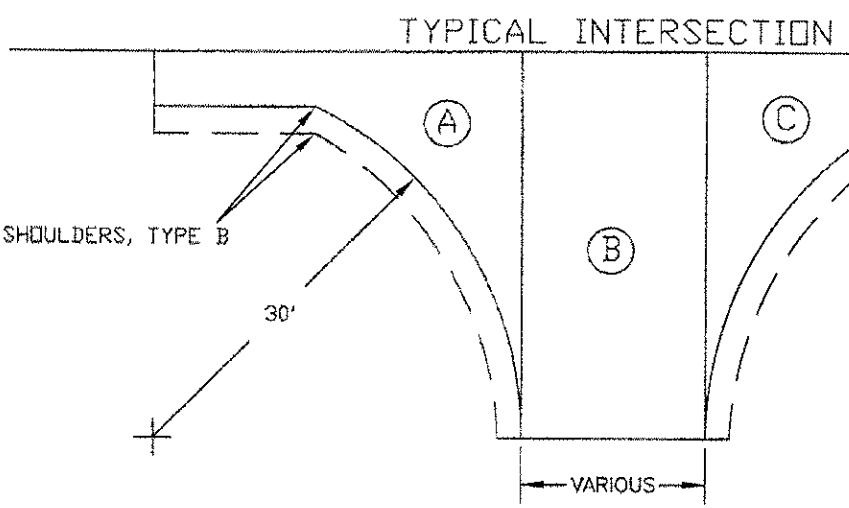
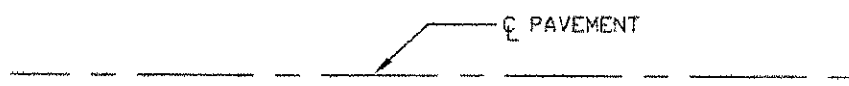
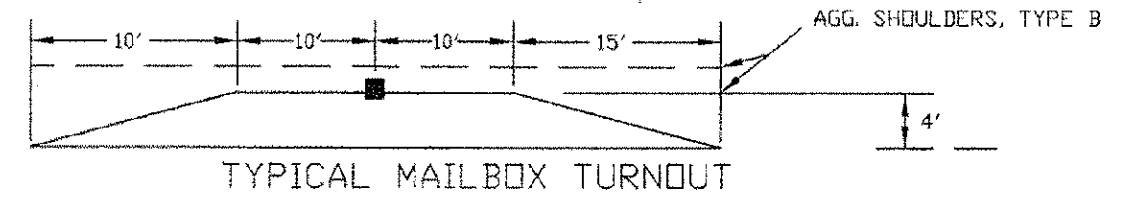
## PROPOSED TYPICAL SECTION

STATION 0+11 TO 105+50  
SECTION: 08-00219-01-RS  
(200E TO 400E ON 3400N)



NOTE: ALL PRIVATE ENTRANCES, MAIL BOX TURNOUTS AND SIDE ROAD INTERSECTIONS SHALL BE PAID FOR AS INCIDENTAL HOT-MIX ASPHALT SURFACING = TOTAL 236 TON

NOTE: AGGREGATE AROUND ALL PRIVATE ENTRANCES, MAIL BOX TURNOUTS AND SIDE ROAD INTERSECTIONS SHALL BE CONSIDERED INCIDENTAL TO AGGREGATE SHOULDERS, TYPE B AND PLACED AS DIRECTED BY THE ENGINEER.



TYPICAL MAILBOX TURNOUT

STATION	SIDE	SQ. YD	TON
• 84+39	RT	20	4
•• 23+73	RT	20	4
TOTAL = 8 TONS			

TYPICAL FIELD ENTRANCES

STATION	RT/LT	TYPE	PROPOSED	SQ. YD.	TON
• 16+25	RT.	FE	AGG	---	5
• 26+85	RT.	FE	AGG	---	5
• 46+00	LT.	FE	AGG	---	5
• 73+00	LT.	FE	AGG	---	5
• 73+05	RT.	FE	AGG	---	5
• 86+62	RT.	FE	AGG	---	5
• 93+75	LT.	FE	AGG	---	5
• 101+50	RT.	FE	AGG	---	5
•• 13+25	LT.	FE	AGG	---	5
•• 13+35	RT.	FE	AGG	---	5
•• 26+87	LT.	FE	AGG	---	5
•• 39+90	RT.	FE	AGG	---	5
•• 40+10	LT.	FE	AGG	---	5
•• 46+50	RT.	FE	AGG	---	5
•• 52+34	LT.	FE	AGG	---	5
•• 53+31	RT.	FE	AGG	---	5
•• 58+57	LT.	FE	AGG	---	5
•• 66+16	LT.	FE	AGG	---	5
•• 66+50	RT.	FE	AGG	---	5
•• 79+60	LT.	FE	AGG	---	5
•• 79+70	RT.	FE	AGG	---	5
•• 87+50	RT.	FE	AGG	---	5

TYPICAL PRIVATE ENTRANCES

STATION	RT/LT	TYPE	PROPOSED	SQ. YD.	TON
• 13+37	RT.	PE.	HMA	28	7
• 84+50	LT.	PE.	HMA	28	7
•• 2+25	LT.	PE.	HMA	35	10
•• 23+75	LT.	PE.	HMA	28	7
•• 73+50	LT.	PE.	HMA	28	7
•• 74+68	LT.	PE.	HMA	35	10
TOTAL = 48 TONS					

ALL PRIVATE ENTRANCES SHALL RECEIVE ONLY A SIX FOOT PAVED APRON.

A+C = RADIUS ON MAINLINE SHOWN AS SIDE = VAR  
A+B+C = TYPICAL SIDE ROAD INTERSECTION

TYPICAL INTERSECTION - SIDE ROADS

STATION	SIDE	WIDTH	SQ. YD.	TON
10+00	000E RT	20'	240	30
10+00	000E LT	20'	240	30
59+51	100E RT	20'	240	30
59+51	100E LT	20'	240	30
26+73	250E RT	22'	240	30
53+51	350E LT	20'	240	30
TOTALS = 180 TONS				

HMA SURFACE REMOVAL BUTT JOINT

STATION TO STATION	WIDTH	SQ. YD.
9+50 TO 10+00	50' X 22'	122
23+85 TO 24+35	50' X 22'	122
27+35 TO 27+85	50' X 22'	122
113+41 TO 113+91	50' X 22'	122
0+11 TO 0+61	50' X 22'	122
105+00 TO 105+50	50' X 22'	122
TOTALS = 732 SQ YDS		

PAVEMENT MARKING SCHEDULE

LOCATION	STATION	4' SKIP DASH YELLOW CENTERLINE	4' SOLID YELLOW CENTERLINE
000E TO 200E	DOUBLE NO PASS 9+50 TO 13+25		750'
000E TO 200E	SINGLE NO PASS 13+25 TO 20+65	185'	740'
000E TO 200E	CENTERLINE 20+65 TO 113+91	2,332'	
200E TO 400E	CENTERLINE 0+11 TO 105+50	2,635'	
TOTAL		5,152'	1,490'

TOTAL AGGREGATE FOR FIELD ENTRANCES = 110 TONS. THIS QUANTITY IS INCLUDED IN AGGREGATE SHOULDERS, TYPE B TOTAL QUANTITY.

• = SECTION: 08-00222-02-RS  
•• = SECTION: 08-00219-01-RS