#### INDEX OF SHEETS

- 1. Cover Sheet
- 2. Summary of Quantities & General Notes
- 3-5. Typical Cross Sections
- Urban Details
- Rural Details

630001-06 631026-02

- Guard Rail Plan View
- Steel Railing Retrofit Details

### STATE OF ILLINOIS

## DEPARTMENT OF TRANSPORTATION

**DIVISION OF HIGHWAYS** 

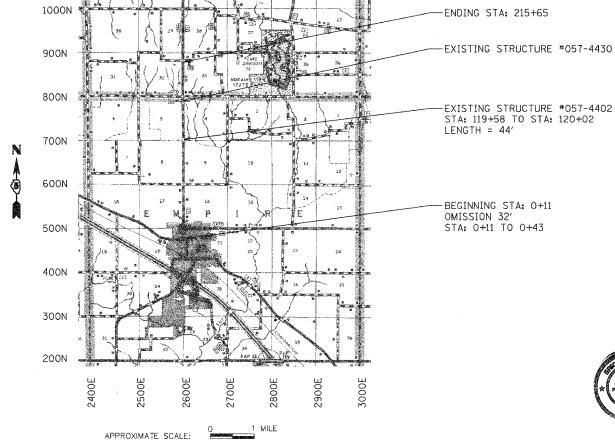
# PLANS FOR PROPOSED

## McLEAN COUNTY FEDERAL AID SECONDARY (STP-SR) LEXINGTON-LEROY RD (CH 21)

F.A.S. ROUTE 489 SECTION 04-00044-08-WR PROJECT #SR-489(107) JOB #C-95-309-06

## STATE STANDARD DETAILS STEEL PLATE BEAM GUARDRAIL TRAFFIC BARRIER TERMINAL TYPE 5 & 5A

REFLECTOR AND TERMINAL MARKER PLACEMENT OFF-RD OPERATIONS 2L, 2W, MORE THAN 4.5M (15') AWAY OFF-RD OPERATIONS 2L, 2W, 4.5M (15') TO 600mm (24") FROM PAVEMENT EDGE OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY, LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS \( \geq \) 45 MPH LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS DAY ONLY, FOR SPEEDS \( \geq \) 45 MPH LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS \( \geq \) 45 MPH LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS \( \geq \) 45 MPH LANE CLOSURE, 2L, 2W, DAY DAY ONLY, FOR SPEEDS \( \geq \) 45 MPH LANE CLOSURE, 2L, 2W, DAY DAY ONLY, FOR SPEEDS \( \geq \) 45 MPH 701006-02 701011-01 701201-02 701301-02 701306-01 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
TRAFFIC CONTROL DEVICES
TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS 701501-03 702001-06 B. L. R. 23-1 TRAFFIC BARRIER TERMINAL TYPE 1





SECTION 489 04-00044-08-WR

COUNTY

ILLINOIS PROFESSIONAL ENGINEER #55820 EXPIRES 11-30-07

THESE PLANS ARE NOT TO SCALE

J.U.L.I.E.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

CONTRACT NO. 91361

THE TOTAL LENGTH OF THE PROPOSED PROJECT IS 21,554 FEET WITH A NET LENGTH OF 21,522 FEET (4.076 MILES)

NOTE: THESE PLANS MEET THE MINIMUM REQUIREMENTS FOR A

FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR

bor theles UTY DIRECTOR OF HIGHWA

		CONTRA	CT NO.	91361
CO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	04-00044-08-WR	MCLEAN	9	2

SUMMARY OF	QUANTITIES		CONST. TYP CODE I-000
ITEM NUMBER	ITEM	UNIT	QUANTITY
* 20200500	EARTH EXCAVATION (WIDENING)	CU YD	1096
* 40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	6,000
40600300	AGGREGATE (PRIME COAT)	TON	300
40600980	BITUMINOUS SURFACE REMOVAL-BUTT JOINT	SQ YD	742
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	40
40600990	TEMPORARY RAMP	SQ YD	100
* 40800010	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	800
* 40800040	INCIDENTAL BITUMINOUS SURFACING	TON	675
* 44300300	AREA REFLECTIVE CRACK CONTROL TREATMENT, SYSTEM A	SQ YD	57, 275
* 48101200	AGGREGATE SHOULDERS, TYPE B	TON	4,200
* 56109210	WATER VALVES TO BE ADJUSTED	EACH	1
* 60255500	MANHOLES TO BE ADJUSTED	EACH	2
* 60260100	INLETS TO BE ADJUSTED	EACH	2
△63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	400
∆63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4
67100100	MOBILIZATION	L SUM	1
△78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
△78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	270
△LR631020	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	4
X3560100	BITUMINOUS CONCRETE BASE COURSE WIDENING, SUPERPAVE 6 INCH	SQ YD	6,577
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	5, 300
X4066614	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50	TON	6, 950
* X4066765	LEVELING BINDER (MACHINE METHOD), SUPERPAVE N50	TON	1,950
* XX006/99	STEEL BRIDGE RAIL, TYPE SM (SPECIAL)	FOOT	94

<sup>\*</sup> SEE SPECIAL PROVISIONS

### GENERAL NOTES:

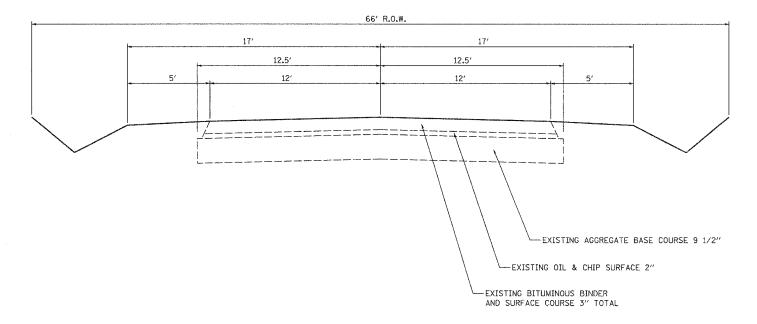
- 1. ALL TEMPORARY & PERMANENT PAVEMENT STRIPING WILL BE DONE BY OTHERS.
- 2. ALL FIELD ENTRANCES AND URBAN MAILBOX TURNOUTS SHALL BE CONSTRUCTED WITH THE EXTENDABLE SCREED WIDENERS AND PAID FROM BITUMINOUS BINDER AND SURFACE COURSES.
- 3. ALL SIDE ROAD RETURNS, SPECIAL SIDE ROAD RETURNS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES & RURAL MAILBOX TURNOUTS ARE TO BE CONSTRUCTED AND PAID FROM INCIDENTAL BITUMINOUS SURFACING.
- 4. AGGREGATE SHOULDERS SHALL BE PLACED ALONG ALL SIDE ROAD RETURN RADII AND PRIVATE ENTRANCE RADII AND SHALL BE PLACED ALONG AND BEHIND ALL FIELD ENTRANCES, GUARDRAIL AND GUARDRAIL RUNOUTS, PRIVATE ENTRANCES AND MAILBOX TURNOUTS UNLESS SPECIFIED BY THE RESIDENT ENGINEER.

A SPECIALTY ITEMS

CO HWY	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	04-00044-08-WR	McLEAN	9	3

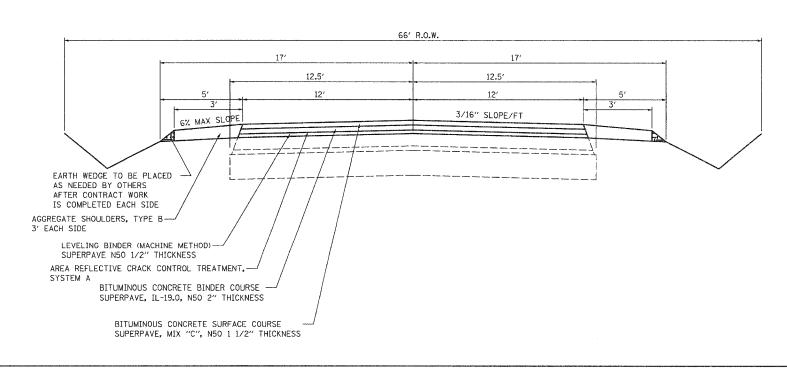
#### EXISTING TYPICAL CROSS SECTION \*1

SEC. 04-00044-08-WR LEXINGTON-LEROY RD (CH 21) STA: 0+43 TO STA: 17+90



#### PROPOSED TYPICAL CROSS SECTION \*1

SEC. 04-00044-08-WR LEXINGTON-LEROY RD (CH 21) STA: 0+43 TO STA: 17+90



#### STRUCTURAL DESIGN DATA 73,280#

CLASS III ROAD DESIGN PERIOD 20 YEARS
STRUCTURAL DESIGN TRAFFIC: 1800 YEAR: 2016
PERCENT OF DESIGN TRAFFIC IN DESIGN LANE:
P.C. 88% S.U. 7% M.U. 5%
P.C. 1584 S.U. 126 M.U. 90
MINIMUM SOIL SUPPORT: IBR= 3.0
TRAFFIC FACTOR (T.F.)= 0.393
STRUCTURAL NUMBER (Dt): 3.7
PAVEMENT STRUCTURE MATERIALS:
SURFACE: PROPOSED BITUMINOUS SURFACE COURSE
BASE: EXISTING BITUMINOUS CONCRETE 3" @ 0.40 a1= 1.60
BASE: EXISTING OIL & CHIP SURFACE 2" @ 0.16 a2= 0.90
BASE: EXISTING AGGREGATE BASE COURSE 9" @ 0.10 a3= 0.90

PROPOSED (Dt) TOTAL= 3.72

SECTION COUNTY 21 04-00044-08-WR MCLEAN 9 4

## EXISTING TYPICAL CROSS SECTION \*2 SEC. 04-00044-08-WR

LEXINGTON-LEROY RD (CH 21) STA: 17+90 TO STA: 119+58 STA: 120+02 TO STA: 165+65

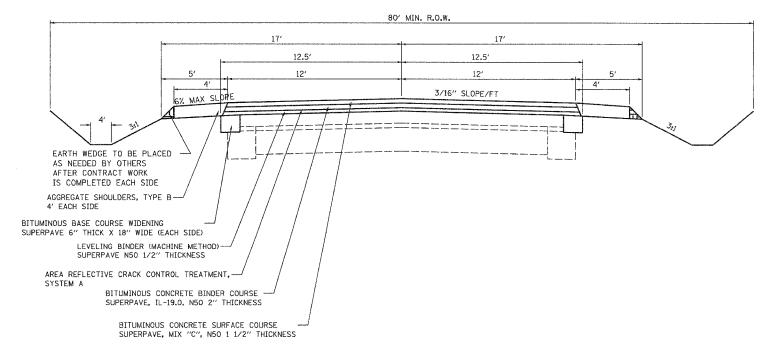
80' MIN. R.O.W. -EXISTING AGGREGATE BASE COURSE WIDENING -EXISTING BITUMINOUS BASE COURSE WIDENING -EXISTING AGGREGATE BASE COURSE 9" -EXISTING OIL & CHIP SURFACE 2"

#### PROPOSED TYPICAL CROSS SECTION \*2

EXISTING BITUMINOUS BINDER

AND SURFACE COURSE 4 1/2" TOTAL

SEC. 04-00044-08-WR LEXINGTON-LEROY RD (CH 21) STA: 17+90 TO STA: 119+58 STA: 120+02 TO STA: 165+65



#### STRUCTURAL DESIGN DATA 73,280#

CLASS III ROAD DESIGN PERIOD 20 YEARS STRUCTURAL DESIGN TRAFFIC: 1800 YEAR: PERCENT OF DESIGN TRAFFIC IN DESIGN LANE: 2016 P.C. 88% S.U. 7% M.U. 5%
P.C. 1584 S.U. 126 M.U. 90
MINIMUM SOIL SUPPORT: IER= 3.0
TRAFFIC FACTOR (T.F.)= 0.393
STRUCTURAL NUMBER (Dt): 3.7
PAVEMENT STRUCTURE MATERIALS: SURFACE: PROPOSED BITUMINOUS SURFACE COURSE BASE: EXISTING BITUMINOUS CONCRETE BASE: EXISTING OIL & CHIP SURFACE SUBBASE: EXISTING AGGREGATE BASE COURSE 4" @ 0.40 a1= 1.60 4.5" @ 0.30 a2= 1.35 2" @ 0.16 a2= 0.32 9" @ 0.10 a3= 0.90

PROPOSED (Dt) TOTAL= 4.17

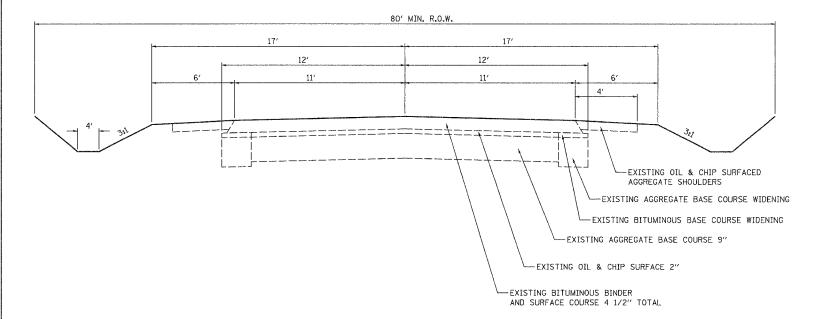
@ 0.10 a3= 0.90

CONTRACT NO. 91361

CO HWY	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21	04-00044-08-WR	McLEAN	9	5

## EXISTING TYPICAL CROSS SECTION #3 SEC. 04-00044-08-WR

LEXINGTON-LEROY RD (CH 21) STA: 165+65 TO STA: 215+65

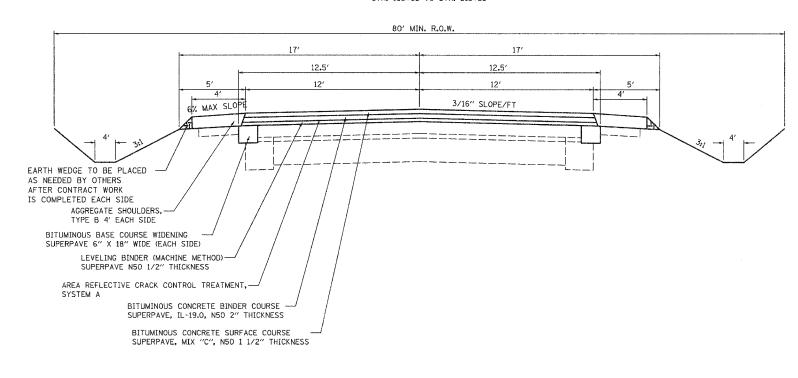


PROPOSED TYPICAL CROSS SECTION #3

SEC. 04-00044-08-WR

LEXINGTON-LEROY RD (CH 21)

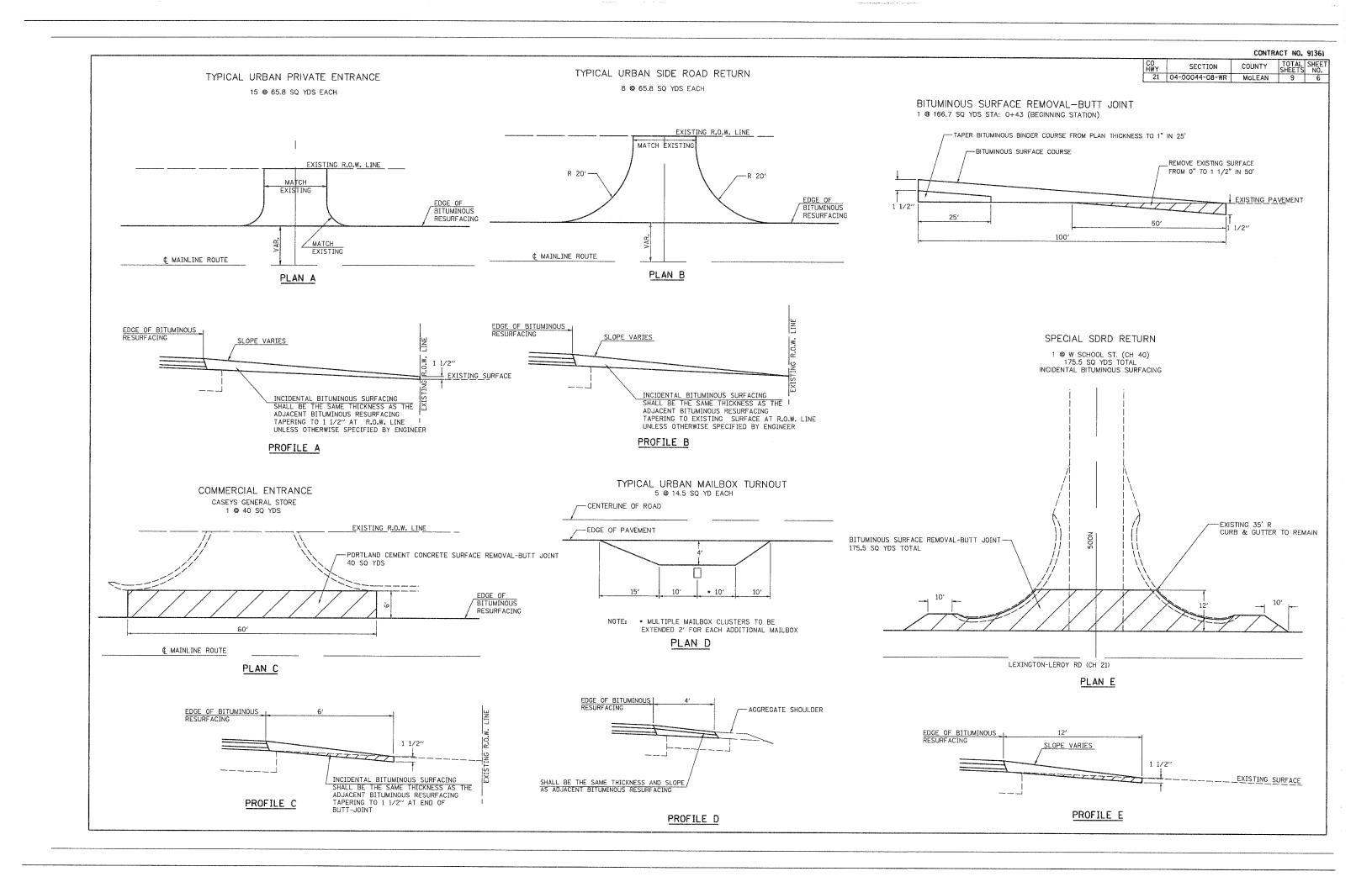
STA: 165+65 TO STA: 215+65



#### STRUCTURAL DESIGN DATA 73,280#

CLASS III ROAD DESIGN PERIOD 20 YEARS			
STRUCTURAL DESIGN TRAFFIC: 1800 YEAR:	2016		
PERCENT OF DESIGN TRAFFIC IN DESIGN LANE:			
P.C. 88% S.U. 7% M.U. 5%			
P.C. 1584 S.U. 126 M.U. 90			
MINIMUM SOIL SUPPORT: IBR= 3.0			
TRAFFIC FACTOR (T.F.)= 0.393			
STRUCTURAL NUMBER (Dt): 3.7			
PAVEMENT STRUCTURE MATERIALS:			
SURFACE: PROPOSED BITUMINOUS SURFACE COURSE	4"	@ 0.40	a1= 1.60
BASE: EXISTING BITUMINOUS CONCRETE	4.5"	@ 0.30	a2= 1.35
BASE: EXISTING OIL & CHIP SURFACE	2"	@ 0.16	a2= 0.32
SUBBASE: EXISTING AGGREGATE BASE COURSE	9"	@ 0.10	a3= 0.90

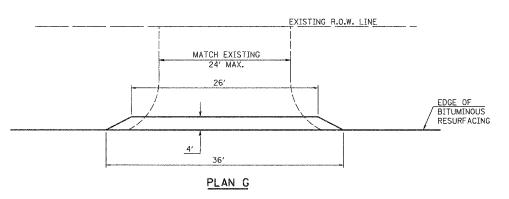
PROPOSED (Dt) TOTAL= 4.17

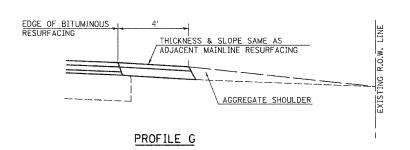


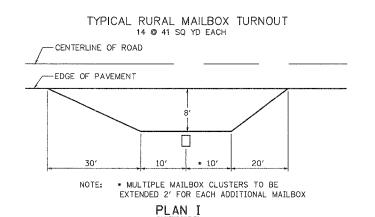
₡ MAINLINE ROUTE

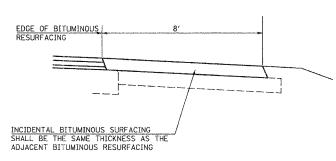
EDGE OF BITUMINOUS RESURFACING

TYPICAL FIELD ENTRANCE 16 @ 13.8 SQ YDS EACH

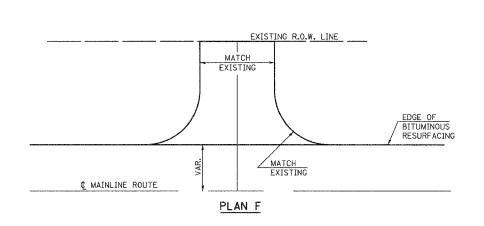






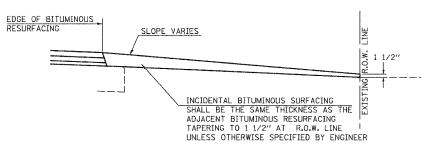


PROFILE I



TYPICAL RURAL PRIVATE ENTRANCE

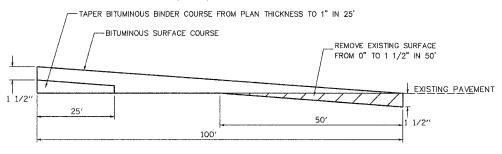
17 @ 65.8 SQ YDS EACH



PROFILE F

#### BITUMINOUS SURFACE REMOVAL-BUTT JOINT

- 1 @ 133.3 SQ YDS STA: 215+65 (ENDING STATION)
- 1 @ 133.3 SQ YDS STA: 119+58 (BRIDGE) 1 @ 133.3 SQ YDS STA: 120+02 (BRIDGE)



CONTRACT NO. 91361 GUARDRAIL PLAN VIEW (TYPICAL EACH SIDE OF BRIDGE) - STRUCTURE #057-4402 STA: 119+80 CENTERLINE OF ROADWAY 200' STEEL PLATE BEAM GUARDRAIL, TYPE A (100:1 TAPER) 46'-8" STEEL BRIDGE RAIL TYPE SM (SPECIAL) 25' TRAFFIC BARRIER TERMINAL. TYPE 1 \_\_\_\_13.25' TRAFFIC BARRIER TERMINAL, TYPE 5A 13.25' TRAFFIC BARRIER TERMINAL. TYPE 5A

