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 2. Typical Cross Sections  
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 Standards: 406201, 701001-01, 701006-02, 701011-01, 701201-02  
 701301-02, 701306-01, 701326-02, 702001-05,

# 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. 489 SEC. 02-00044-07-WR

## PROJECT #SR-489(106)

## JOB #C-93-031-05

COUNTY HWY DIST. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
21	*	McLEAN	3	1

FED. RD. DIST. #7 ILLINOIS PROJECT #  
 \* 02-00044-07-WR  
 CONTRACT NO. 87301

# McLEAN COUNTY FEDERAL AID SECONDARY (STP-SR)

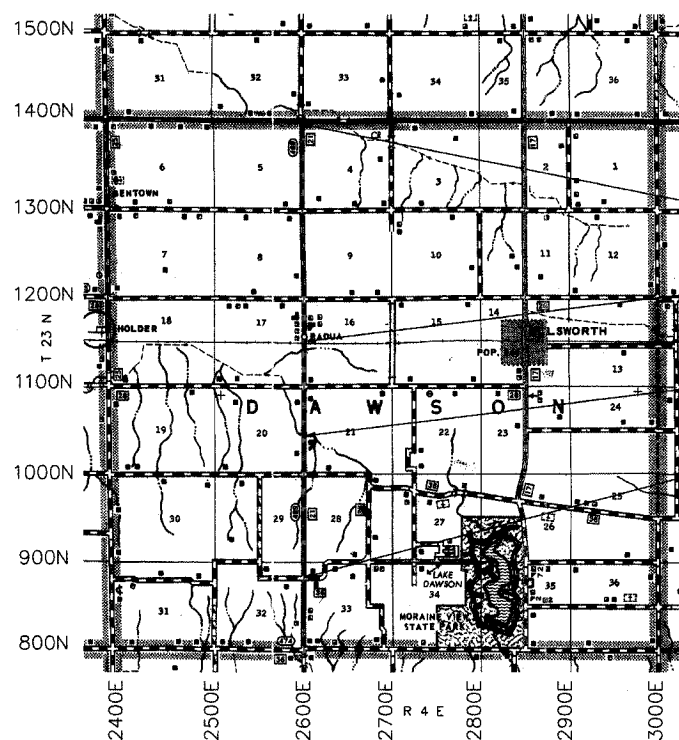


LOCATION OF SECTION INDICATED THUS: - - -

### SUMMARY OF QUANTITIES

CODE#	ITEM	CONST. TYPE CODE I-000-2A TOTAL QUANTITY	UNIT
*20200500	EARTH EXCAVATION (WIDENING)	1538	CU YD
40600100	BITUMINOUS MATERIALS (PRIME COAT)	7500	GALLON
40600300	AGGREGATE (PRIME COAT)	390	TON
40600980	BITUMINOUS SURFACE REMOVAL-BUTT JOINT	649	SQ YD
40600990	TEMPORARY RAMP	119	SQ YD
40800010	BITUMINOUS MATERIALS (PRIME COAT)	750	GALLON
40800040	INCIDENTAL BITUMINOUS SURFACING	400	TON
*44300300	AREA REFLECTIVE CRACK CONTROL TREATMENT, SYSTEM A	73816	SQ YD
48101200	AGGREGATE SHOULDERS TYPE B	7000	TON
*X3560100	BITUMINOUS CONCRETE BASE COURSE WIDENING, SUPERPAVE, 6 INCH	9228	SQ YD
*X4066414	BITUMINOUS CONCRETE SURFACE COURSE SUPERPAVE, MIX "C", N50	6500	TON
*X4066614	BITUMINOUS CONCRETE BINDER COURSE SUPERPAVE, IL 19.0, N50	9400	TON
*X4066765	LEVELING BINDER (MACHINE METHOD) SUPERPAVE, N50	2550	TON
*Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	1	L SUM

\* = SPECIAL PROVISION



ENDING STA: 491+97  
 RAILROAD OMISSION 6'  
 STA: 357+95 TO STA: 358+01  
 STRUCTURE #057-4106  
 BEGINNING STA: 215+10

APPROXIMATE SCALE: 0 1 MILE

NOTE: THE TOTAL LENGTH OF THE PROPOSED PROJECT IS 27,687 FEET WITH A NET LENGTH OF 27,681 FEET (5.2426 MILES)  
 NOTE: THESE PLANS MEET THE MINIMUM REQUIREMENTS FOR A 3-R IMPROVEMENT.

CONTRACT NO. = 87301



*John E. Mitchell*  
 ILLINOIS PROFESSIONAL ENGINEER #31506  
 EXPIRES 11-30-05

CLASS III ROAD DESIGN  
 DESIGN SPEED: 50 MPH  
 CURRENT ADT: 1300 (2005)  
 DESIGN ADT: 1586 (2015)

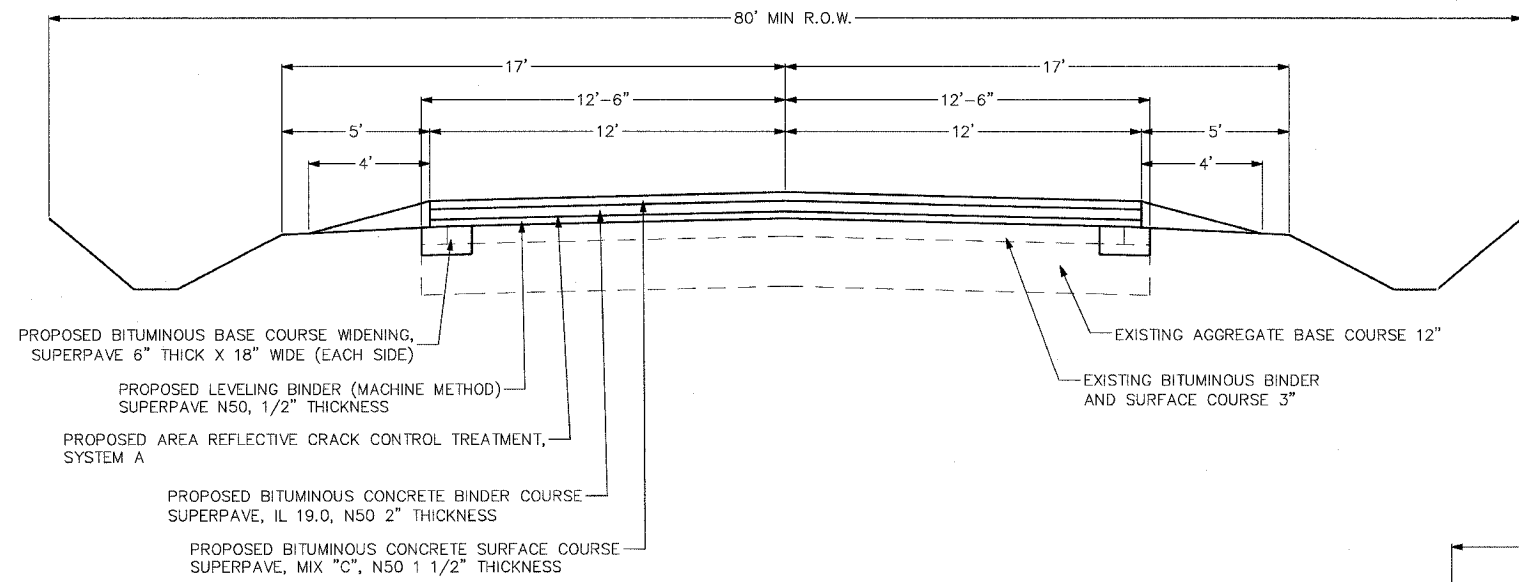
APPROVED	<i>John E. Mitchell</i>	2005
	COUNTY ENGINEER	
APPROVED	<i>John E. Mitchell</i>	2005
	DISTRICT OF LOCAL ROADS AND STREETS	
APPROVED	<i>John E. Mitchell</i>	2005
	REGION 2 ENGINEER	
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		

COUNTY HWY ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
21	*	McLEAN	3	2
FED. RD. DIST. #7 ILLINOIS PROJECT #				

\* 02-00044-07-WR  
CONTRACT NO. 87301

**PROPOSED TYPICAL CROSS SECTION #1**

SEC. 02-00044-07-WR  
LEXINGTON-LEROY RD (CH 21)  
STA: 216+00 - STA: 222+00  
STA: 441+00 - STA: 447+00  
STA: 486+00 - STA: 491+97



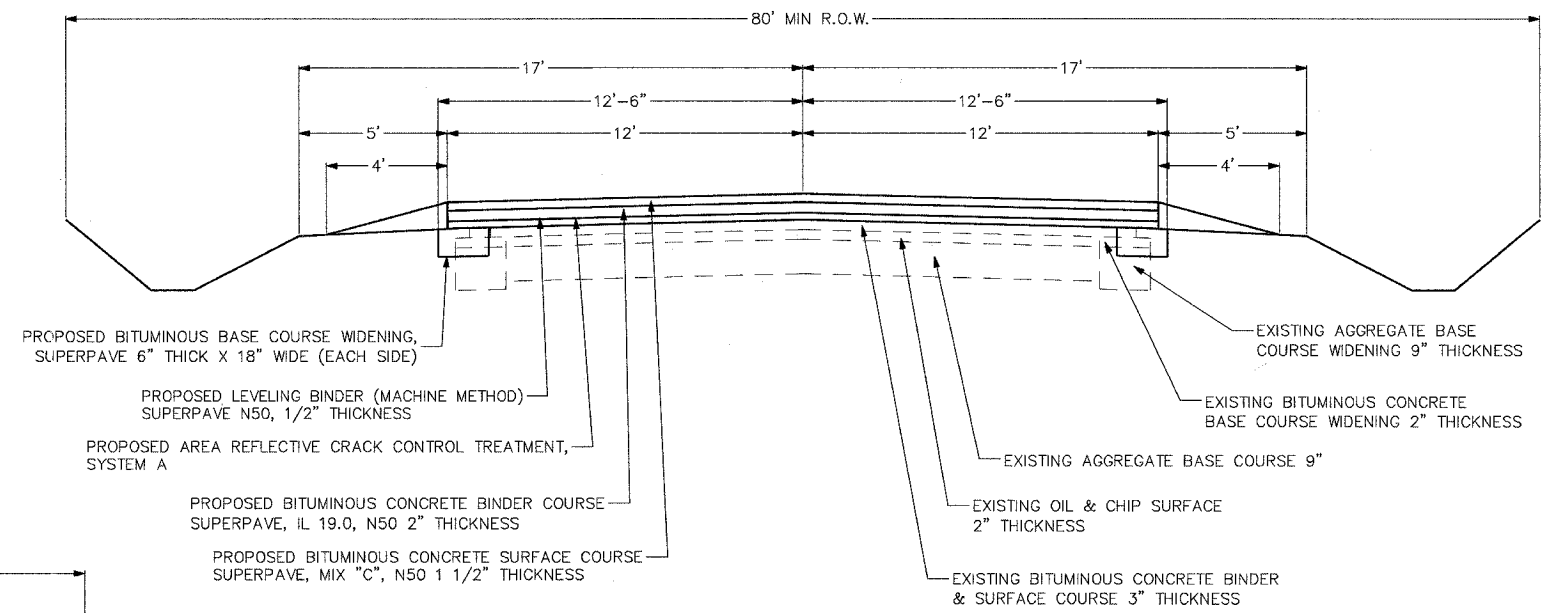
**STRUCTURAL DESIGN DATA 73,280# TYPICAL CROSS SECTION #1**

CLASS III ROAD DESIGN PERIOD 20 YEARS  
STRUCTURAL DESIGN TRAFFIC: 1586 YEAR: 2015  
PERCENT OF DESIGN TRAFFIC IN DESIGN LANE:  
P.C. 88% S.U. 7% M.U. 5%  
P.C. 1396 S.U. 111 M.U. 79  
MINIMUM SOIL SUPPORT: IBR= 3.0  
TRAFFIC FACTOR (T.F.)= 0.346  
STRUCTURAL NUMBER (Dt): 3.6  
PAVEMENT STRUCTURE MATERIALS:  
SURFACE: PROPOSED BITUMINOUS SURFACE COURSE 4" @ 0.40 a1= 1.60  
BASE: EXISTING BITUMINOUS CONCRETE 3" @ 0.30 a2= 0.90  
SUBBASE: EXISTING AGGREGATE BASE COURSE 12" @ 0.10 a3= 1.20

PROPOSED (Dt) TOTAL= 3.70

**PROPOSED TYPICAL CROSS SECTION #2**

SEC. 02-00044-07-WR  
LEXINGTON-LEROY RD (CH 21)  
STA: 222+00 - STA: 358+10  
STA: 367+00 - STA: 441+00  
STA: 447+00 - STA: 486+00



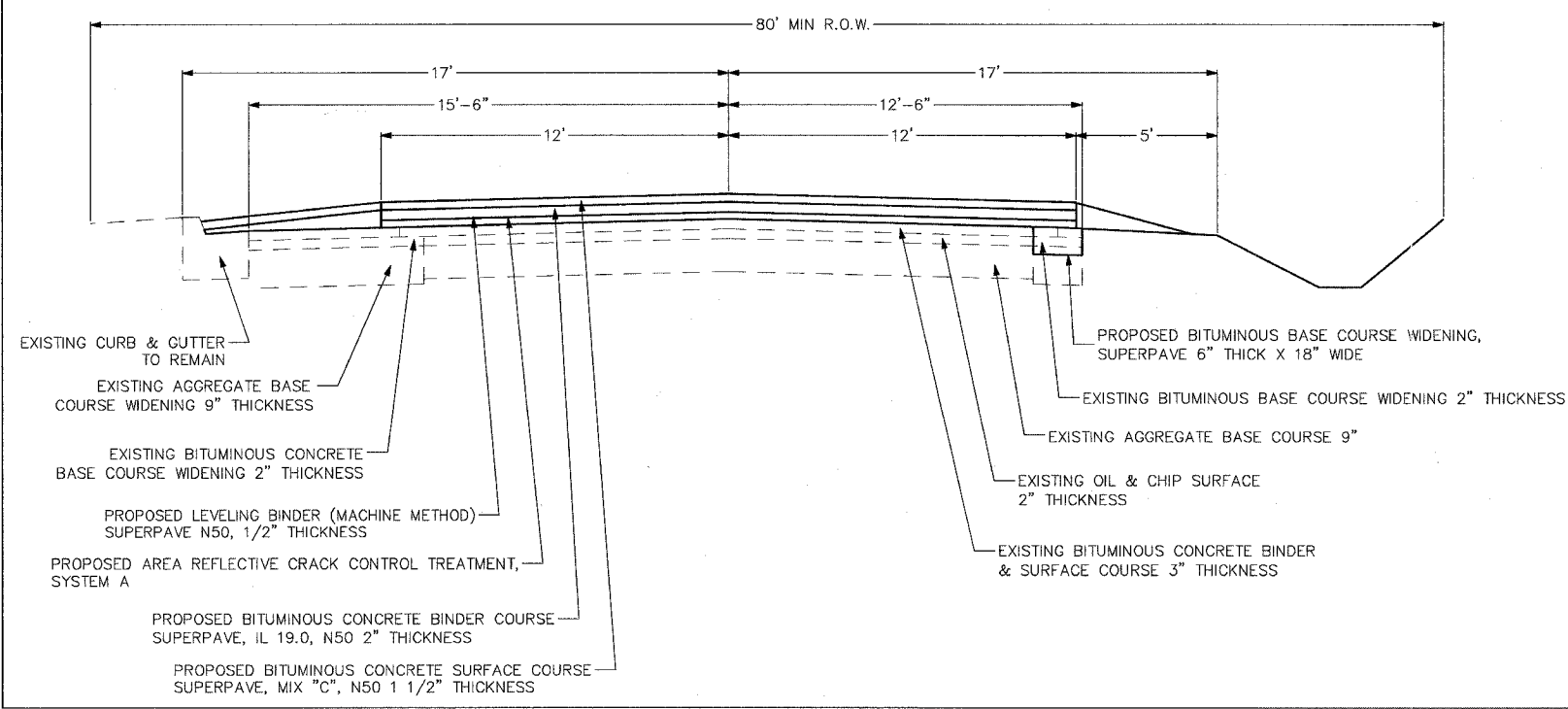
**STRUCTURAL DESIGN DATA 73,280# CROSS SECTIONS #2 & #3**

CLASS III ROAD DESIGN PERIOD 20 YEARS  
STRUCTURAL DESIGN TRAFFIC: 1586 YEAR: 2015  
PERCENT OF DESIGN TRAFFIC IN DESIGN LANE:  
P.C. 88% S.U. 7% M.U. 5%  
P.C. 1396 S.U. 111 M.U. 79  
MINIMUM SOIL SUPPORT: IBR= 3.0  
TRAFFIC FACTOR (T.F.)= 0.346  
STRUCTURAL NUMBER (Dt): 3.6  
PAVEMENT STRUCTURE MATERIALS:  
SURFACE: PROPOSED BITUMINOUS SURFACE COURSE 4" @ 0.40 a1= 1.60  
BASE: EXISTING BITUMINOUS CONCRETE 3" @ 0.30 a2= 0.90  
BASE: EXISTING OIL & CHIP SURFACE 2" @ 0.16 a3= 0.32  
SUBBASE: EXISTING AGGREGATE BASE COURSE 9" @ 0.10 a4= 0.90

PROPOSED (Dt) TOTAL= 3.72

**PROPOSED TYPICAL CROSS SECTION #3**

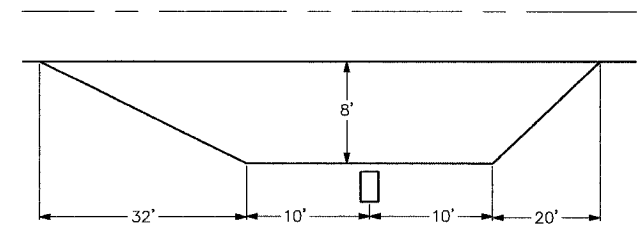
SEC. 02-00044-07-WR  
LEXINGTON-LEROY RD (CH 21)  
STA: 358+10 - STA: 367+00



COUNTY DISTRICT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
21	*	MCLEAN	3	3
FED. RD. DIST. #7 ILLINOIS PROJECT #				

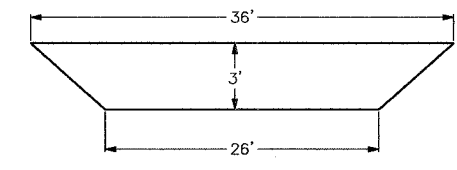
\* 02-00044-07-WR  
CONTRACT NO. 87301

**MAILBOX TURNOUT**  
3 @ 42 SQ YDS EACH

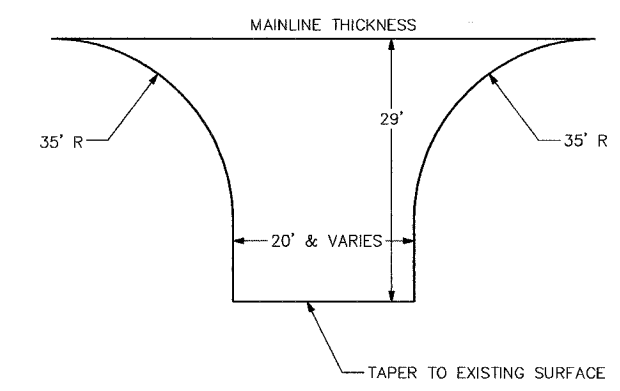


NOTE: MULTIPLE MAILBOX CLUSTERS TO BE EXTENDED 2' FOR EACH ADDITIONAL MAILBOX.

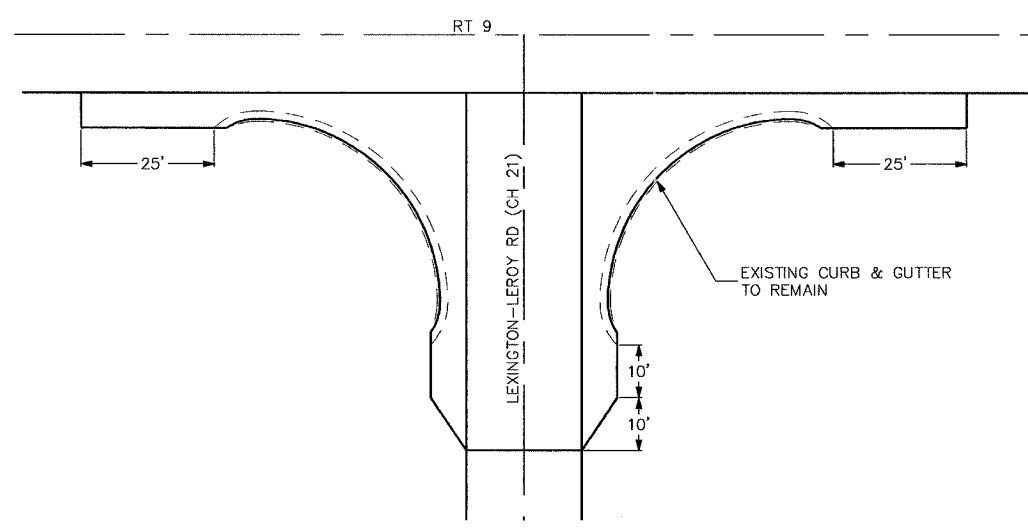
**FIELD ENTRANCE**  
35 @ 42 SQ YDS EACH



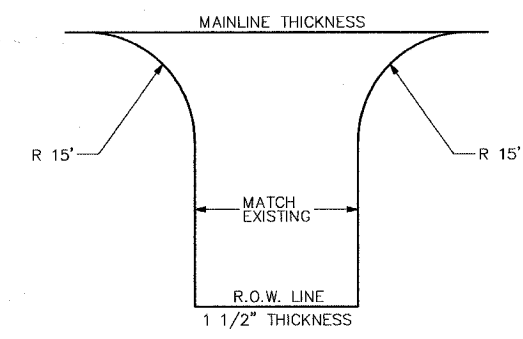
**TYPICAL SIDE ROAD RETURN**  
8 @ 129 SQ YDS EACH



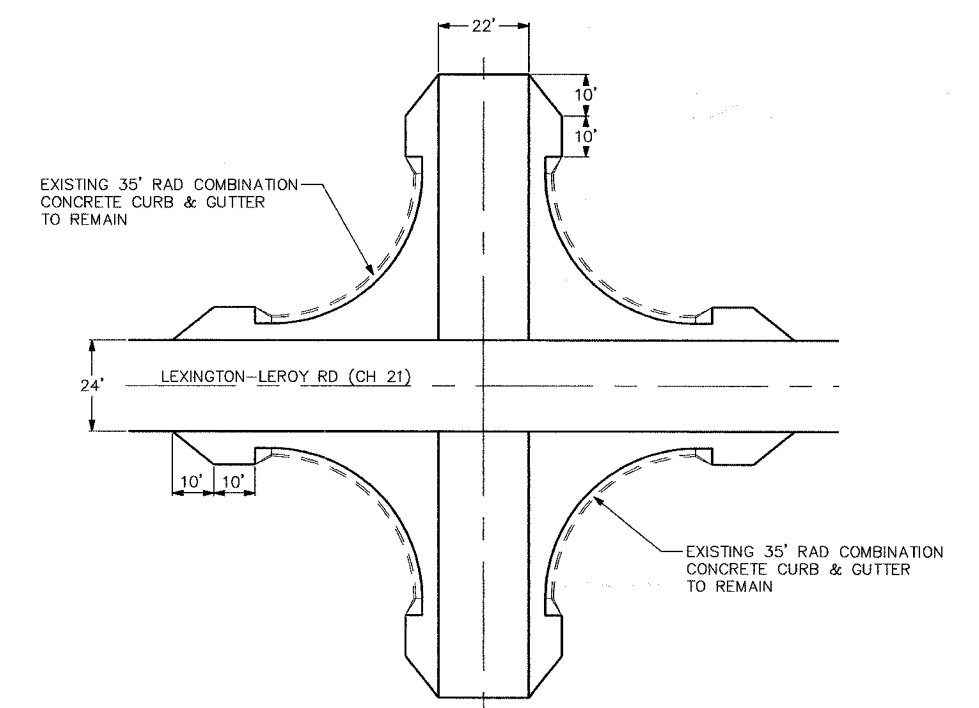
**SPECIAL INTERSECTION**  
1 AT STA: 491+97 184.1 SQ YD



**PRIVATE ENTRANCE**  
5 @ 64.1 SQ YDS EACH

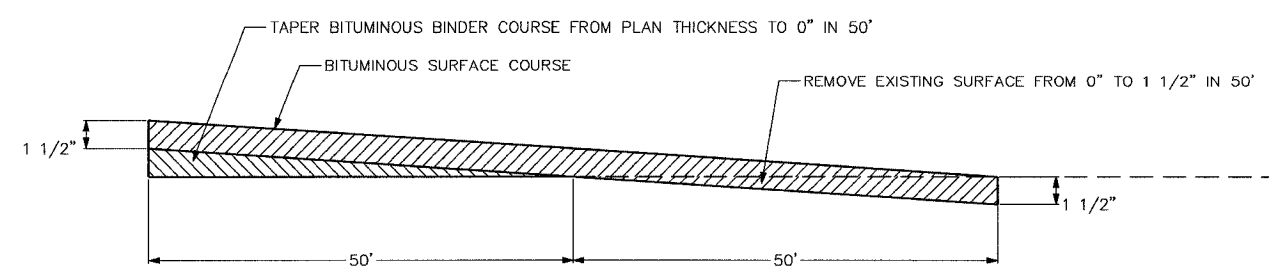


**SPECIAL SIDE ROAD RETURNS**  
LEXINGTON-LEROY RD (CH 21) & 875N  
LEXINGTON-LEROY RD (CH 21) & 1200N  
202 SQ YDS EACH SIDE AT TWO LOCATIONS  
808 SQ YDS TOTAL



**BITUMINOUS SURFACE REMOVAL-BUTT JOINT**

- 1 @ STA: 215+10 122.2 SQ YD
- 1 @ STA: 357+95 (RR TRACKS) 122.2 SQ YD
- 1 @ STA: 358+01 (RR TRACKS) 122.2 SQ YD
- 1 @ STA: 491+97 (RT 9) 404.1 SQ YD



- NOTES:**
- ALL TEMPORARY AND PERMANENT PAVEMENT STRIPING WILL BE DONE BY OTHERS.
  - ALL FIELD ENTRANCES SHALL BE CONSTRUCTED WITH THE EXTENDABLE SCREED WIDENERS AND PAID FROM BITUMINOUS BINDER AND SURFACE COURSES.
  - ALL SPECIAL INTERSECTION RADII TO BE CONSTRUCTED AND PAID FROM BITUMINOUS BINDER AND SURFACE COURSES.
  - ALL SIDE ROAD RETURNS, SPECIAL SIDE ROAD RETURNS, PRIVATE ENTRANCES & MAILBOX TURNOUTS ARE TO BE CONSTRUCTED AND PAID FROM INCIDENTAL BITUMINOUS SURFACE COURSE.
  - AGGREGATE SHOULDERS SHALL BE PLACED ALONG ALL SIDE ROAD RETURN RADII AND PRIVATE ENTRANCE RADII AND ALSO SHALL BE PLACED ALONG AND BEHIND ALL FIELD ENTRANCES, GUARDRAIL RUNOUTS, UNDER GUARDRAIL AND MAILBOX TURNOUTS UNLESS SPECIFIED BY THE ENGINEER.