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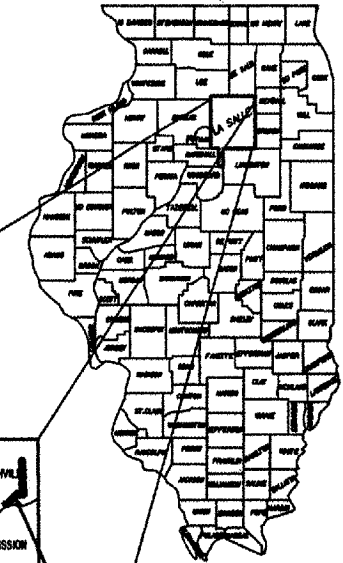
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7. DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
LA SALLE COUNTY

PLANS FOR PROPOSED
FEDERAL-AID SECONDARY PROJECT
F.A.S. ROUTE 259 (C.H. 3) SECTION 05-00237-01-RS
PROJECT NO. SR-259 (109) JOB NO. C-93-055-06

COUNTY	SECTION	HWY. NO.	SHEET NO.
LASALLE	05-00237-01-RS	3	1 of 7

CONTRACT NO. 87320



HIGHWAY STANDARDS

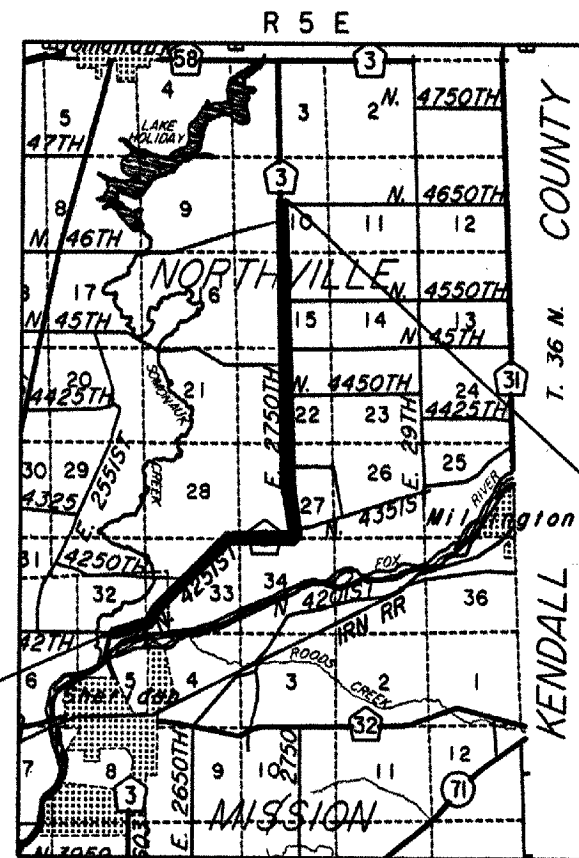
- 542401 METAL END SECTIONS FOR PIPE CULVERTS
- 542406 METAL END SECTIONS FOR PIPE ARCHES

TRAFFIC CONTROL STANDARDS

- 701006-02 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
- 701011-01 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
- 701301-02 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
- 701306-01 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
- 702001-06 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES

SUMMARY OF QUANTITIES

CODE	ITEM	UNIT	CONSTR. TYPE CODE 1000	QUANTITY
20400800	FURNISHED EXCAVATION	CU. YD.		462
X 25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE		0.05
25100115	MULCH METHOD 2	ACRE		0.05
X 35600100	BIT. CONC. B.C. WID. 6"	SQ. YD.		2573
X 40600100	BITUMINOUS MATERIALS (PRIME COAT)	GAL.		16,373
40600300	AGGREGATE (PRIME COAT)	TON		164
X 40600980	BITUMINOUS SURFACE REMOVAL-BUTT JOINT	SQ. YD.		805
X 48101200	AGGREGATE SHOULDERS, TYPE B	TON		5200
X 54213870	STEEL END SECTIONS 15"	EACH		2.0
X 54213873	STEEL END SECTIONS 18"	EACH		8.0
X 54213879	STEEL END SECTIONS 24"	EACH		4.0
X 54215133	STL. END SEC. EQRS 18	EACH		6.0
X 54215136	STL. END SEC. EQRS 21	EACH		2.0
X 54215139	STL. END SEC. EQRS 24	EACH		2.0
67100100	MOBILIZATION	L. SUM		1.0
X 70100460	TRAF. CONT.- PROT. 701306	L. SUM		1.0
X 70100500	TRAF. CONT.- PROT. 701326	L. SUM		1.0
X 70300100	SHORT-TERM PAVEMENT MARKING	FOOT		9250
X X4066514	P. BCSC SUPER "C" N-50	TON		5732
X X4066614	BCBC SUP. IL-19.0 N-50	TON		10,314
X X4066765	LEV. BIND. MM SUPER N-50	TON		4611
X SEE SPECIAL PROVISIONS				



PREVIOUS SECTIONS

93(O), SM 93(O), 80(G), 81(G), 79-00093-00-RS, 88-00237-00-RS (SM), 88-00237-00-WR

SEC. 05-00237-01-RS
 ENDS STA. 319+92



MENOTA	MERIDEN	EARL	ADAMS	NORTHVILLE
TROY GROVE	OPPER	FREEDOM	SERENA	MISSION
ORRICK	WALTHAM	WALLACE	DAVENEY	MILLER
NEW LASALLE	UTICA	OTTAWA	WENTLAND	MANKAS
DEER PARK	SOUTH OTTAWA	FALL RIVER		
EIEN	FARM RIDGE	GRAND RAPIDS	BROOKFIELD	
VERMILION				
HOPE	OSAGE	BRUCE	OTTER CREEK	ALLEN
	GROVELAND			

PROPOSED IMPROVEMENT

THESE PLANS WERE PREPARED BY ME OR BY A FULL-TIME MEMBER OF MY STAFF WORKING UNDER MY PERSONAL SUPERVISION

Lawrence J. Kinzer 3/29/06
 LAWRENCE J. KINZER DATE

COUNTY ENGINEER
 I.R.P.E. #62-40162 11-30-07 EXP.

THE ACCEPTANCE OF THIS PROJECT IS BASED ON THE MINIMUM DESIGN CRITERIA FOR A FEDERAL AID 3-R PROJECT

PASSED: 3/31 2006
Kenneth R. Ly
 DISTRICT ENGINEER OF ROADS AND STREETS

APPROVED: 3/31/06
Gregory M. ...
 DEPUTY DIRECTOR REGION 2 ENGINEER

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GROSS AND NET LENGTH = 30,822 FT. = 5.838 MI.

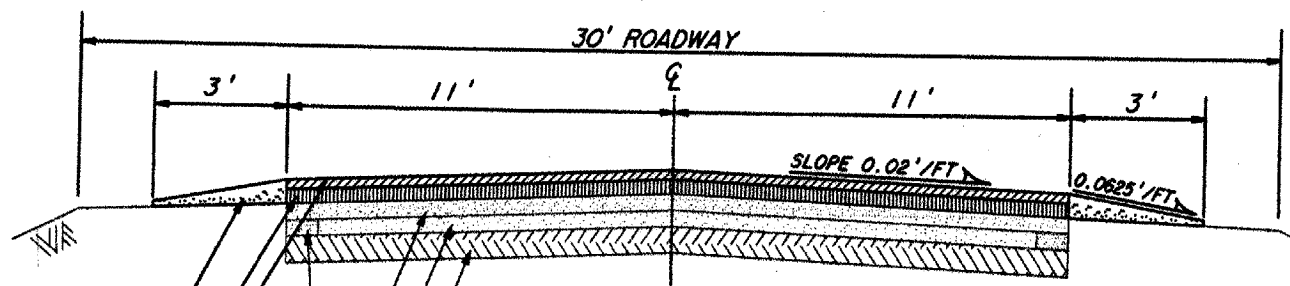
2006 ADT = 2335 MAJOR COLLECTOR

2021 ADT = 2919 DESIGN SPEED = 50 MPH

CALL JULIE
 48 Hours Before You Dig.
 1-800-892-0123

COUNTY	SECTION	HWY. NO.	SHEET NO.
LASALLE	05-00237-01-RS	CH 3	2 of 7

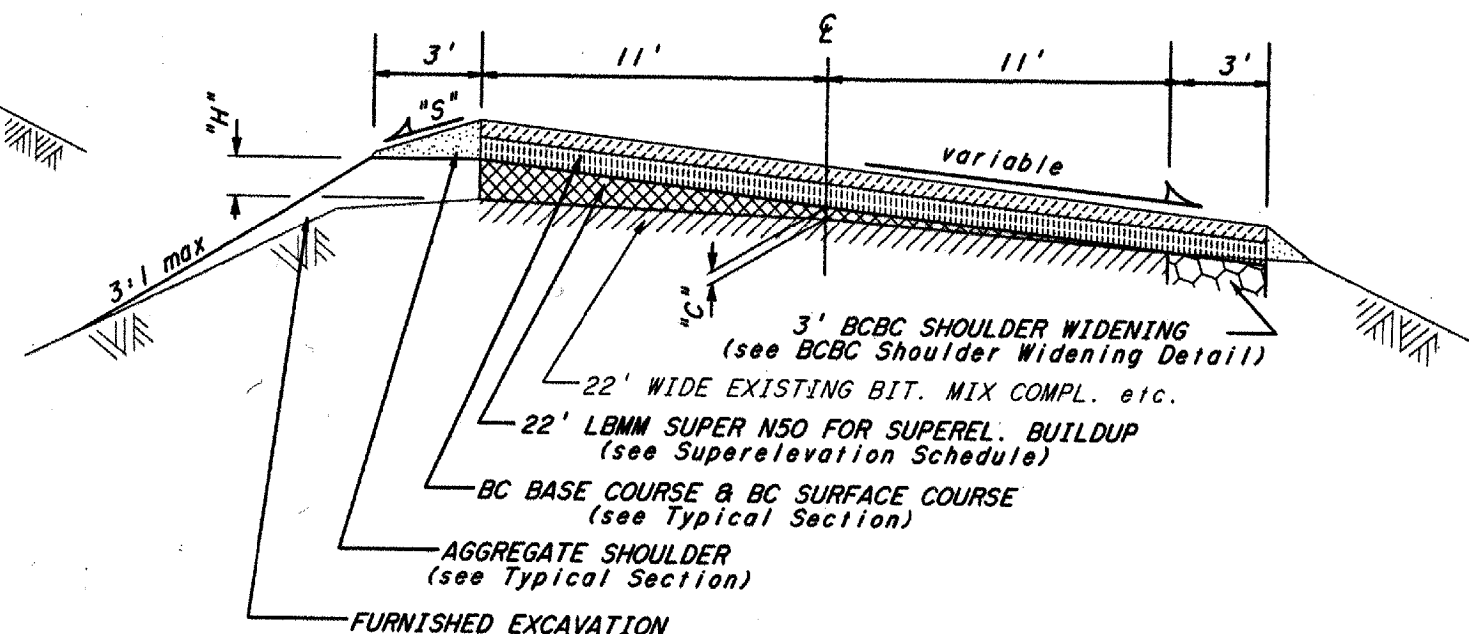
CONTRACT NO. 87320



- 8" x 22' WIDE EXISTING AGG. BASE CSE TY B
 - 2" x 20' WIDE BIT. SURF. TY B-4
 - 3" x 22' WIDE EXISTING BIT. MIX COMPL.
 - 2" x 1.0' WIDE EXISTING BCBC WIDENING
- PROPOSED:
- 1 1/4" x 22' POL. BIT. CONC. SURFACE COURSE SUPER "C" N50
 - 2 1/4" x 22' BIT. CONC. BINDER COURSE SUPER N50
 - 3/4" x 22' LEVEL BINDER MM SUPER N50
 - 4.25" x 3' AGG SHOULDERS, TY. B

PROPOSED TYPICAL SECTION

STA. 11+60 TO STA. 319+82



PROPOSED SUPERELEVATION TYPICAL SECTION

MIXTURE REQUIREMENTS

LOCATION:	05-00237-01-RS			
MIXTURE USE:	SUPERPAVE LBMM	BCBC WIDENING	SUPERPAVE BINDER	SUPERPAVE SURFACE
PG GRADE:	P664-22	P664-22	P664-22	SBS P664-20
MAX RAP %:	15 %	15 %	15 %	0 %
DESIGN AIR VOIDS:	4.0 % @ N50	4.0 % @ N50	4.0 % @ N50	4.0 % @ N50
MIXTURE COMPOSITION:	IL-9.5	IL-19.0	IL-19.0	IL-9.5
FRICTION AGGREGATE:				MIXTURE "C"
PLANT CONTROL LIMITS:	CLASS 1			
DENSITY CONTROL METHOD:		CORRELATION	CORRELATION	

SUPERELEVATION SCHEDULE

STA. TO STA.	SUPERELEVATION	"H"	"C"	STA. TO STA.	SUPERELEVATION	"H"	"C"
15+37 TO 16+62	TRANS NC TO 0.06'/FT	.00 to .62	.00 to .18	95+38 TO 97+08	TRANS NC TO 0.08'/FT	.00 to .38	.00 to .00
16+62 TO 20+30	SUPEREL = 0.06'/FT	.62	.18	97+08 TO 100+52	SUPEREL = 0.08'/FT	.38	.00
20+30 TO 21+55	TRANS 0.06'/FT TO NC	.62 to .00	.18 to .00	100+52 TO 102+22	TRANS 0.08'/FT TO NC	.38 to .00	.00 to .00
21+55 TO 27+57	TRANS NC TO 0.08'/FT	.00 to .22	.00 to .04	102+22 TO 126+69	TRANS NC TO 0.08'/FT	.00 to .00	.00 to .00
27+57 TO 29+27	TRANS NC TO 0.08'/FT	.00 to .22	.00 to .04	126+69 TO 128+39	TRANS NC TO 0.08'/FT	.00 to .00	.00 to .00
29+27 TO 32+66	SUPEREL = 0.08'/FT	.22	.04	128+39 TO 136+34	SUPEREL = 0.08'/FT	.00	.00
32+66 TO 34+36	TRANS 0.08'/FT TO NC	.22 to .00	.04 to .00	136+34 TO 138+04	TRANS 0.08'/FT TO NC	.00 to .00	.00 to .00
34+36 TO 35+86	TRANS NC TO 0.04'/FT	.00 to .08	.00 to .00	138+04 TO 151+58	TRANS NC TO 0.06'/FT	.00 to .81	.00 to .27
35+86 TO 37+11	TRANS NC TO 0.04'/FT	.00 to .08	.00 to .00	151+58 TO 153+33	TRANS NC TO 0.06'/FT	.00 to .81	.00 to .27
37+11 TO 40+83	SUPEREL = 0.04'/FT	.08	.00	153+33 TO 156+67	SUPEREL = 0.06'/FT	.81	.27
40+83 TO 42+08	TRANS 0.04'/FT TO NC	.08 to .00	.00 to .00	156+67 TO 158+42	TRANS 0.06'/FT TO NC	.81 to .00	.27 to .00
42+08 TO 64+94	TRANS NC TO 0.04'/FT	.00 to .49	.00 to .10	158+42 TO 159+95	TRANS NC TO 0.08'/FT	.00 to .92	.00 to .32
64+94 TO 66+44	TRANS NC TO 0.04'/FT	.00 to .49	.00 to .10	159+95 TO 162+10	TRANS NC TO 0.08'/FT	.00 to .92	.00 to .32
66+44 TO 70+31	SUPEREL = 0.04'/FT	.49	.10	162+10 TO 165+19	SUPEREL = 0.08'/FT	.92	.32
70+31 TO 71+81	TRANS 0.04'/FT TO NC	.49 to .00	.10 to .00	165+19 TO 167+34	TRANS 0.08'/FT TO NC	.92 to .00	.32 to .00
71+81 TO 86+67	TRANS NC TO 0.02'/FT	.00 to .22	.00 to .00				
86+67 TO 87+92	TRANS NC TO 0.02'/FT	.00 to .22	.00 to .00				
87+92 TO 91+59	SUPEREL = 0.02'/FT	.22	.00				
91+59 TO 92+84	TRANS 0.02'/FT TO NC	.22 to .00	.00 to .00				

GENERAL NOTES

THE THICKNESS OF THE BITUMINOUS MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.

THE BITUMINOUS SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SAW CUT THE BITUMINOUS SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE BITUMINOUS SURFACE.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS BITUMINOUS LIFTS.

ADDITIONAL BINDER COURSE MATERIAL, AT THE RATE GIVEN ON THE TYPICAL SECTIONS, HAS BEEN ADDED TO THE QUANTITIES FOR CROWN CORRECTION.

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

EXISTING SUPEREL RATES ARE TO BE MATCHED WITH THE FULL DEPTH OF THE APPLICABLE TYPICAL SECTION

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES.	
GRANULAR MATERIALS	2.05 TONS/CU YD
BITUMINOUS MATERIALS (PRIME COAT)	0.10 GAL/SQ YD
AGGREGATE (PRIME COAT)	0.002 TONS/SQ YD
BITUMINOUS CONCRETE BINDER AND SURFACE COURSE	112 LBS/SQ YD/INCH
SHORT-TERM PAVEMENT MARKING	4 FT/40 FT EACH APPLICATION

PAVEMENT DESIGN

STA. 10+00 TO STA. 319+92

STRUCTURAL DESIGN TRAFFIC = 2919 (2021)

P_v = 88% (2315) S_v = 10% (263) M_v = 2% (53)

TRAFFIC FACTOR = 0.591

REQUIRED STRUCTURAL NUMBER = 3.80

MINIMUM STRUCTURAL NUMBER PROVIDED = 3.82

SHOULDER WIDENING STRUC. NUMBER PROVIDED = 4.10

TYPICAL SECTIONS AND GENERAL NOTES

CONTRACT NO. 87320

PAVING SCHEDULE

STA. to STA.	SURFACE WIDTH FEET	LENGTH	AREA SQ. YD.	BIT. MAT. (PR. CT.)	AGG. (PR. CT)	LB MM SUPER N50	BCBC SUPER N50	C BCSC SUPER "C" N50	AGG. SHLDS. TY-B	SHORT- TERM PAV'T MARKING.
				0.1 Gal/SY	4*/8q Yd	3"	2 1/2"	1 1/2"	2.05 Ton /Cu Yd	FOOT
11+60 - 308+32	22.0	30,832	75,367	15,073	150.7	4501 ⁽¹⁾ (3)	9496	5276	4975	9250
PRIVATE ENTRANCES			2234	447	4.5		281	157		
FIELD ENTRANCES			332	66	0.7		42	23	225 ⁽²⁾	
INTERSECTIONS			796	159	1.6		100	56		
MAILBOX TURNOUTS			517	103	1.0		65	36		
PAVED SHOULDERS			2623	525	5.1	110	330	184		
TOTAL			81,869	16,373	164	4611	10,314	5732	5200	9250

- (1) INCLUDES 20 LB/SQ YD CROWN CORRECTION (754 TONS)
- (2) INCLUDES 5 TON PER STANDARD FIELD ENTRANCE
- (3) INCLUDES 582 TONS FOR SUPERELEVATION BUILDUP. SEE TABLE ON SHEET 2 FOR DIMENSIONS.

PIPE CULVERT QUANTITIES

LOCATION	STEEL END SECTION					
	15" DIA EACH	18" DIA EACH	24" DIA EACH	18" EQRS EACH	21" EQRS EACH	24" EQRS EACH
19+90						2.0
99+66				2.0		
110+97					2.0	
146+05				2.0		
161+42				2.0		
185+07		2.0				
228+56		2.0				
246+25		2.0				
255+05			2.0			
276+15		2.0				
292+92	2.0					
311+87			2.0			
TOTAL	2.0	8.0	4.0	6.0	2.0	2.0

MAILBOX TURNOUT

STATION	SIDE	WIDTH	SQ YD
21+53	RT	4	24.9
81+61	RT	3	18.7
90+01	RT	6	37.4
93+20	RT	4	24.9
104+23	RT	8	49.8
117+15	RT	3	18.7
121+68	RT	3	18.7
125+33	RT	3	18.7
146+04	RT	3	18.7
153+85	RT	8	49.8
155+39	RT	5	31.1
168+39	RT	5	31.1
168+93	RT	5	31.1
231+33	RT	6	37.4
250+53	RT	6	37.4
278+80	RT	3	18.7
284+30	RT	5	31.1
298+27	RT	3	18.7
TOTAL			517

BCBC WIDEN FOR PAVED SHOULDERS

STATION	SIDE	WIDTH	SQ YD
11+60 to 21+23	RT	3.00	321.0
27+08 to 33+23	LT	3.00	205.0
36+50 to 41+75	RT	3.00	175.0
65+72 to 71+23	RT	3.00	183.7
88+10 to 90+73	LT	3.00	87.7
93+35 to 103+93	RT	3.00	315.7
126+80 to 157+43	LT	3.00	1021.0
158+83 to 166+75	RT	3.00	264.0
N 4650th INT RADII*	RT	VAR.	50.0
TOTAL			2623

* WIDEN RADII TO 30'

INTERSECTION

STATION	LOCATION	SIDE	SQ YD
64+75	N 4250th RD	LT	93.8
137+01	N 4351st RD	RT	99.1
171+61	N 4375th RD	RT	77.8
211+28	N 4450th RD	RT	88.5
228+26	N 45th RD	LT	88.5
237+82	N 45th RD	RT	83.1
264+20	N 4550th RD	RT	88.5
308+59	N 46th RD	LT	88.5
318+46	N 4650th RD	RT	88.5
TOTAL			796

BIT. SURFACE REMOVAL

STATION	SIDE	SQ YD
BUTT JOINT		
11+60 to 12+70	CL	350
19+12 PE	LT	10
64+75 (N. 4250th RD)	LT	21
81+34 PE	LT	7
81+34 PE	LT	7
104+23 PE	LT	14
137+01 (N. 4351st RD)	RT	29
228+26 (N. 45th RD)	LT	25
308+59 (N. 46th RD)	LT	35
318+46 (N. 4650th RD)	RT	37
318+82 to 319+92	CL	270
TOTAL		805

PRIVATE ENTRANCES

STATION	SIDE	SQ YD	STATION	SIDE	SQ YD
12+96	RT(CE)	36.8	117+04	LT	52.8
13+57	RT	36.8	120+36	LT	42.1
15+75	RT	42.1	121+99	RT(CE)	74.1
15+99	RT	42.1	122+60	LT	47.4
17+52	RT	79.4	123+09	LT	58.1
17+99	LT	63.4	124+80	LT	58.1
19+12	LT	38.1	145+89	RT	90.1
19+55	RT	47.4	154+16	RT	58.1
21+82	RT	47.4	154+46	RT	36.8
30+92	RT	79.4	155+53	RT	47.4
32+59	LT(CE)	111.4	157+43	RT(CE)	36.8
71+38	RT	42.1	164+82	RT	57.4
81+34	LT	19.0	169+13	RT	36.8
82+05	RT	47.4	169+13	LT	42.1
87+87	LT(CE)	47.4	197+99	LT	52.8
89+80	LT	79.4	207+37	RT	68.8
92+60	RT	42.1	231+63	RT	47.4
92+68	LT	36.8	248+04	LT	47.4
98+90	LT	58.1	276+63	RT	42.1
104+23	LT	19.0	279+22	RT	42.1
110+84	RT(CE)	84.8	284+28	LT	42.1
			298+36	LT	52.8
TOTAL			TOTAL		2234

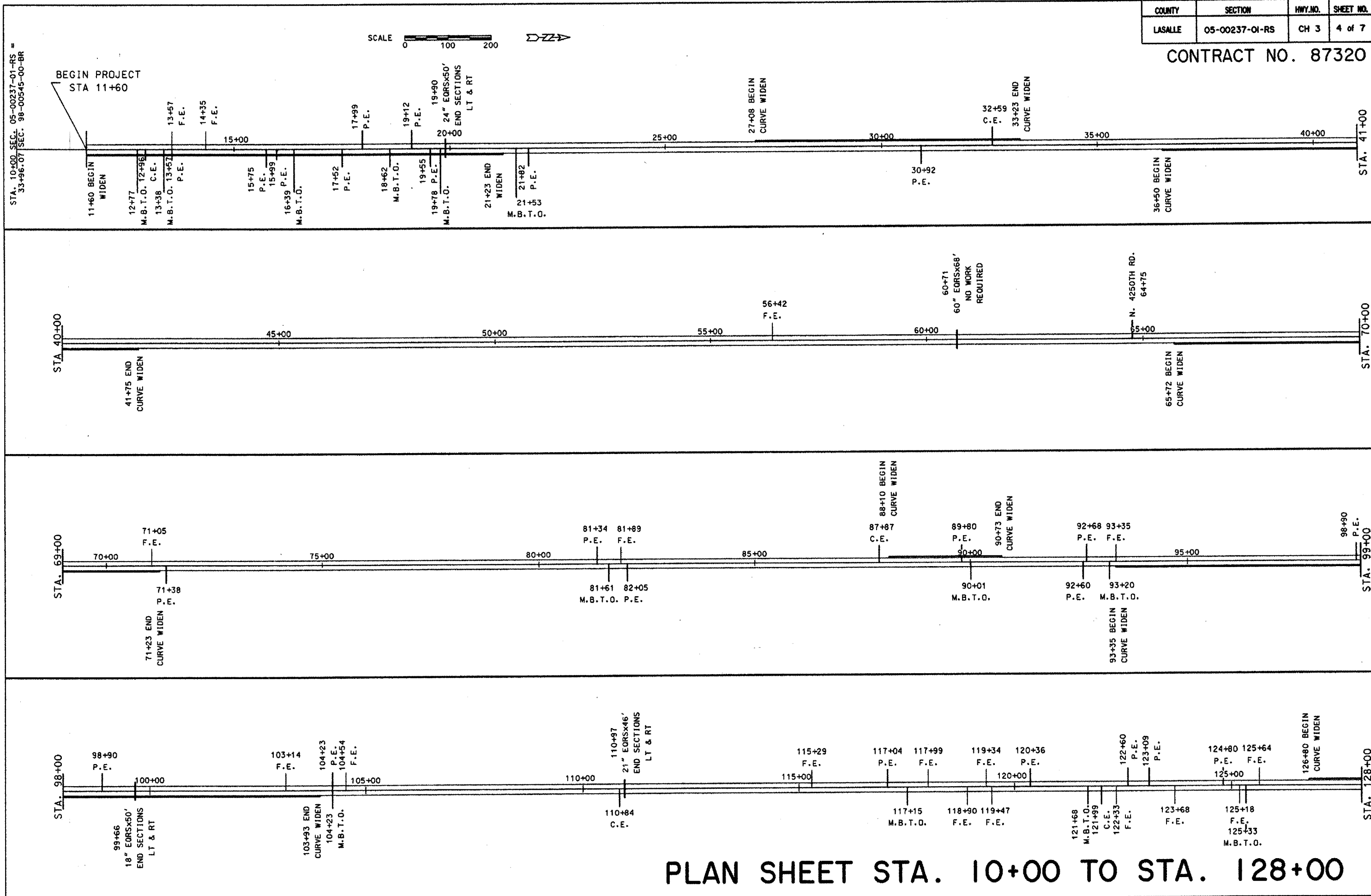
FIELD ENTRANCES

STATION	SIDE	SQ YD	STATION	SIDE	SQ YD
13+57	LT	6.3	180+98	LT	6.3
14+35	LT	6.3	181+83	RT	6.3
56+42	LT	6.3	184+79	LT(TPL)	17.1
71+05	LT	6.3	191+78	RT	6.3
81+89	LT	6.3	201+93	LT	6.3
93+35	LT	6.3	202+63	RT	6.3
103+14	LT	6.3	207+77	LT	6.3
104+54	LT(DBL)	11.7	211+28	LT	6.3
115+29	LT	6.3	216+23	RT	6.3
117+99	LT	11.7	219+33	LT	6.3
118+90	RT	6.3	224+28	RT(DBL)	11.7
119+34	LT	6.3	228+14	RT	6.3
119+47	RT	6.3	232+37	LT	6.3
122+33	RT	11.7	238+14	RT	6.3
123+68	RT(DBL)	11.7	251+03	RT	6.3
125+18	RT	6.3	257+60	LT	6.3
125+64	LT	6.3	264+25	LT	6.3
135+81	RT	6.3	275+75	RT	6.3
165+13	LT(DBL)	11.7	285+95	LT	6.3
171+76	LT	6.3	290+65	RT	6.3
171+95	RT	6.3	296+41	LT	6.3
178+49	LT(DBL)	11.7	303+79	RT	6.3
			309+35	LT	6.3
TOTAL			TOTAL		332

SCHEDULE OF QUANTITIES

COUNTY	SECTION	HWY. NO.	SHEET NO.
LASALLE	05-00237-01-RS	CH 3	4 of 7

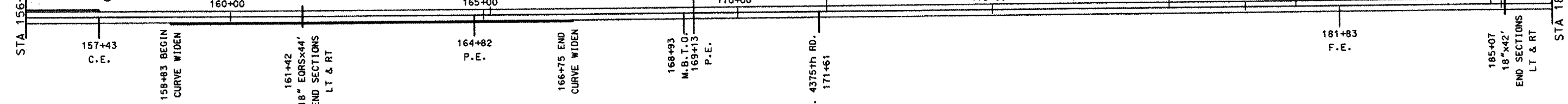
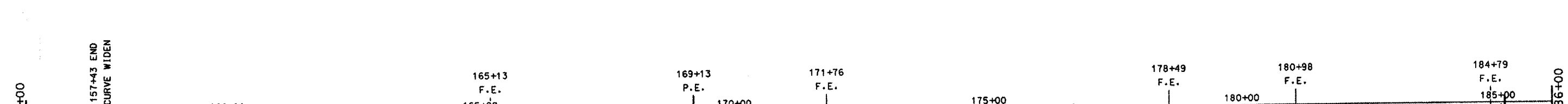
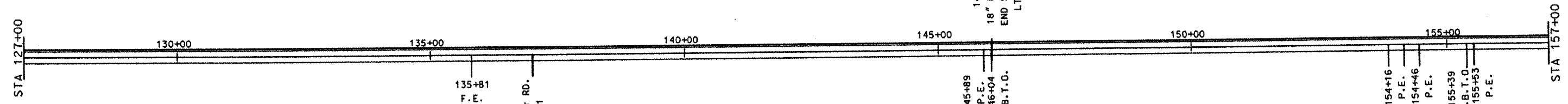
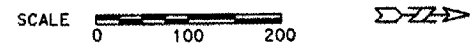
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PLAN SHEET STA. 10+00 TO STA. 128+00

COUNTY	SECTION	HWY. NO.	SHEET NO.
LASALLE	05-00237-01-RS	CH 3	5 of 7

CONTRACT NO. 87320

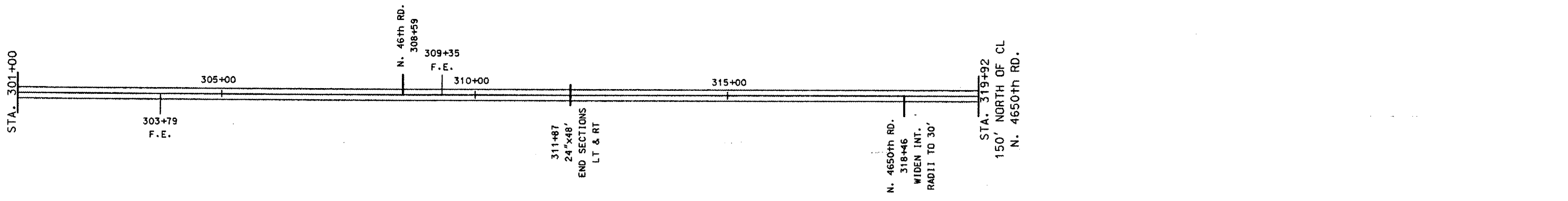
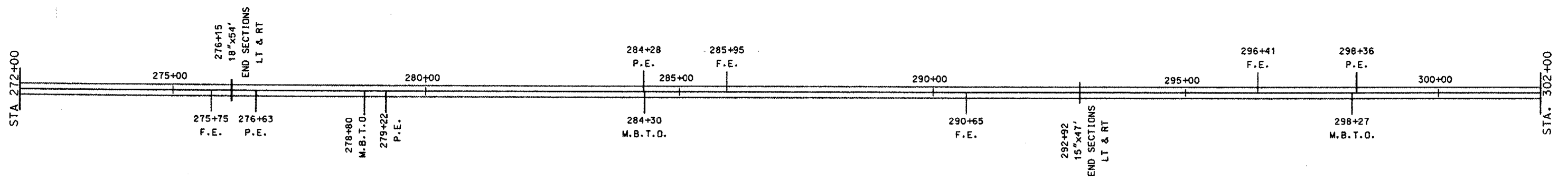
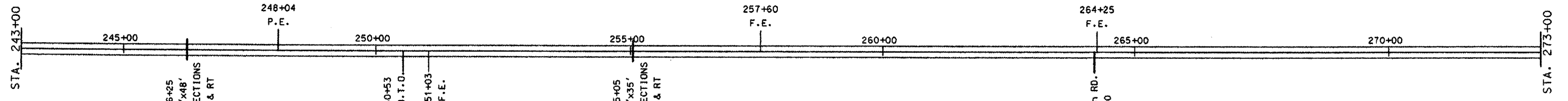
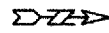


PLAN SHEET STA. 127+00 TO STA. 244+00

COUNTY	SECTION	HWY.NO.	SHEET NO.
LASALLE	05-00237-01-RS	CH 3	6 of 7

CONTRACT NO. 87320

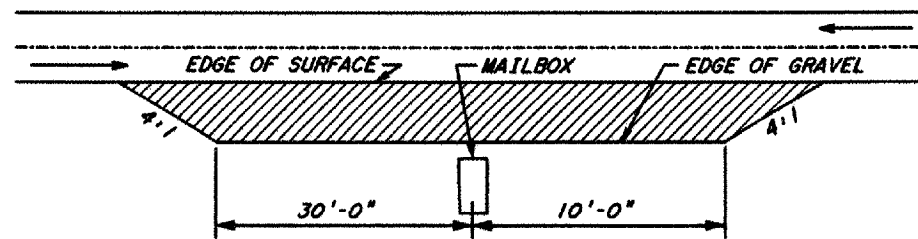
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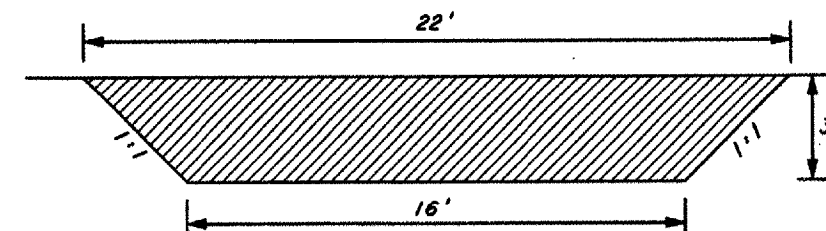
PLAN SHEET STA. 243+00 TO STA. 319+92

COUNTY	SECTION	HWY. NO.	SHEET NO.
LASALLE	05-00237-01-RS	CH 3	7 of 7

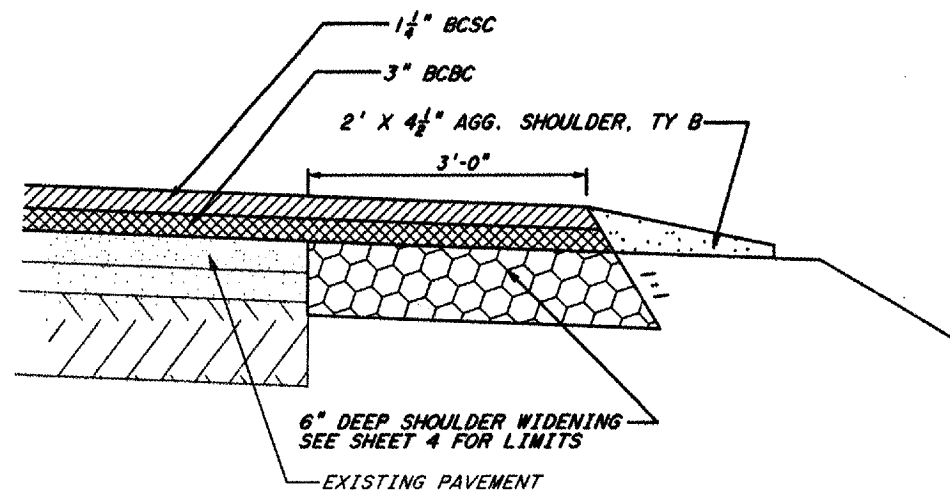
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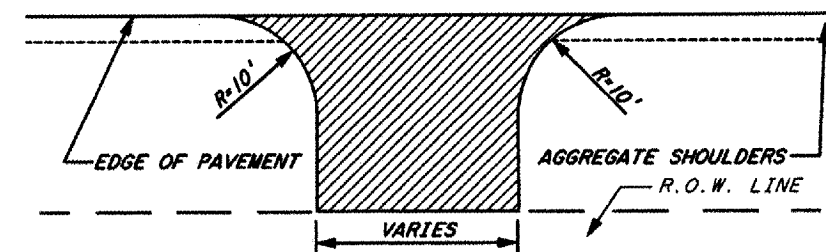
TYPICAL MAILBOX TURNOUT



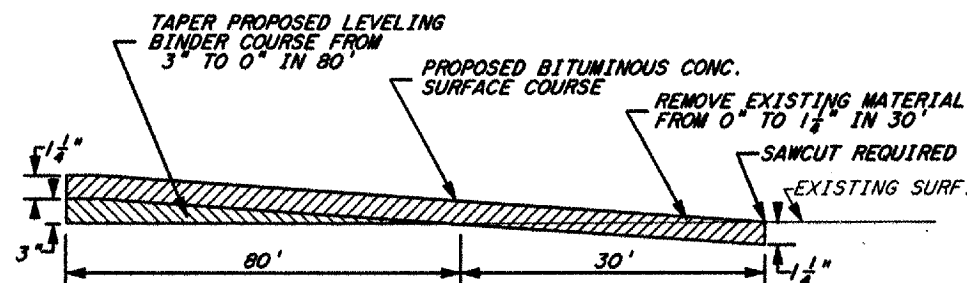
TYPICAL FIELD ENTRANCE



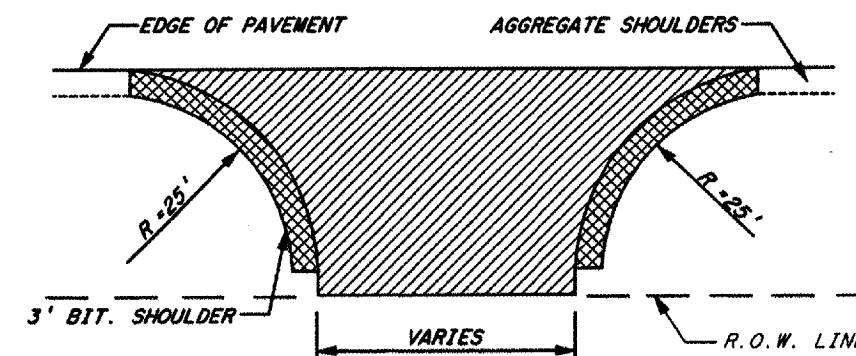
SHOULDER WIDENING DETAIL



TYPICAL PRIVATE ENTRANCE



TAPER DETAIL



TYPICAL INTERSECTION

NOTE: THE EXISTING SHOULDERS TO BE PAVED SHALL BE SHAPED, COMPACTED AND PRIMED TO THE SATISFACTION OF THE ENGINEER. THE SHOULDERS SHALL BE PAVED WITH BITUMINOUS CONCRETE SURFACE COURSE TO THE WIDTH AND THICKNESS DESIGNATED BY THE ENGINEER. PAVED SHOULDERS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR BITUMINOUS CONCRETE SURFACE COURSE.