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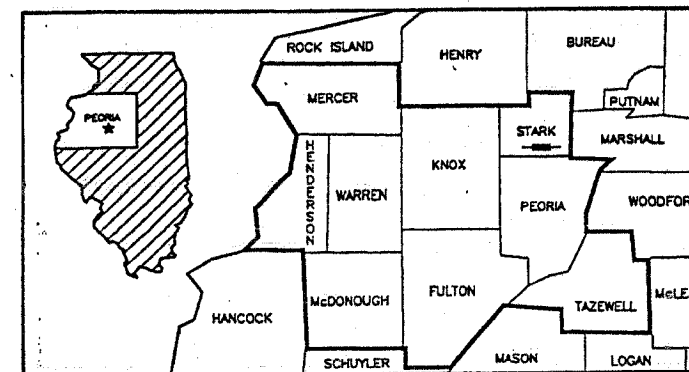
STANDARDS:

280001-02	TEMPORARY EROSION CONTROL SYSTEMS
701311-02	LANE CLOSURE, 2L, 2W, MOVING OPERATION
702001-05	TRAFFIC CONTROL DEVICES
780001-01	TYPICAL PAVEMENT MARKINGS
BLR22-4	ROAD CLOSED TO THROUGH TRAFFIC

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
LOCAL ROAD SAFETY IMPROVEMENT
TOULON TOWNSHIP
STARK COUNTY
TR 46 AND TR117
SECTION 03-06114-00-SP
PROJECT TCSP - 03IL (003)**

TWP.	COUNTY	SECTION	TWP. HWY. NO.	SHEET NO.	TOTAL SHEETS
TOULON	STARK	03-06114-00-SP	46	7	8

CONTRACT# 89305



LOCATION OF SECTION INDICATED THUS: —

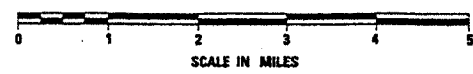
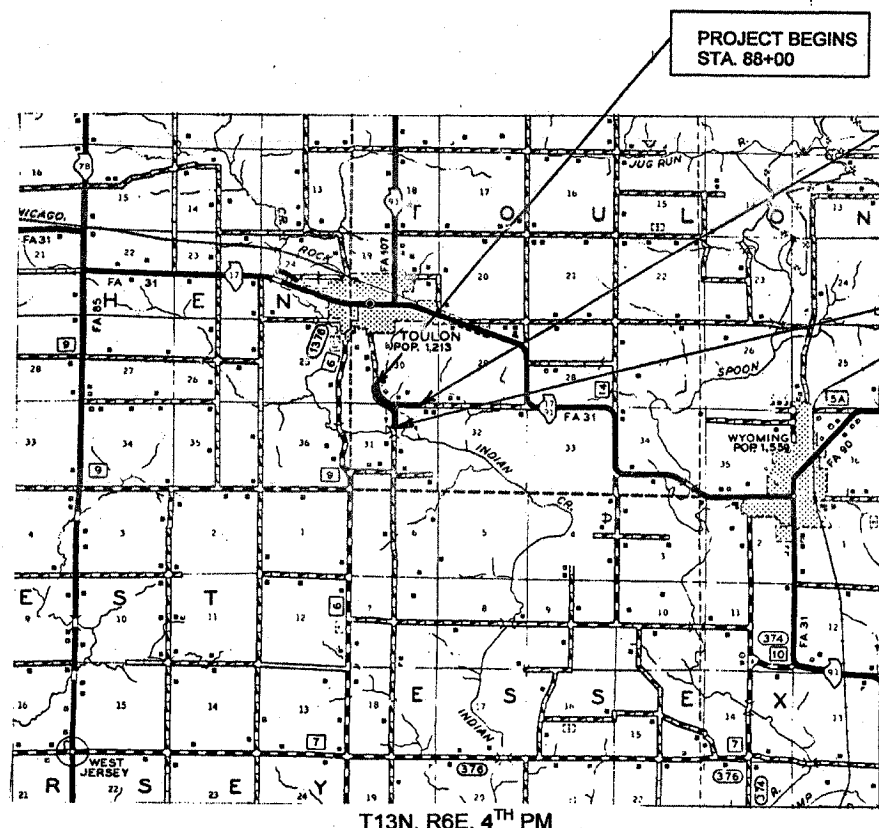
JOB NO. C-94-095-03
CONTRACT NO. 89305

**QC/QA BITUMINOUS
SUPERPAVE PROJECT**

SUMMARY OF QUANTITIES
CONSTRUCTION CODE 1000-2A

CODE NO.	UNIT	ITEM	QUANTITY
20100110	UNIT	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	40.0
20200100*	CU YD	EARTH EXCAVATION	1647.0
20400800	CU YD	FURNISHED EXCAVATION	369.0
25001000*	ACRE	SEEDING, CLASS 2 (SPECIAL)	0.8
28000250	POUND	TEMPORARY EROSION CONTROL SEEDING	80.0
28000300	EACH	TEMPORARY DITCH CHECKS	6.0
28000400	FOOT	PERIMETER EROSION BARRIER	650.0
28100208*	TON	STONE RIPRAP, CLASS A4 (SPECIAL)	50.0
35101400	TON	AGGREGATE BASE COURSE, TYPE B	2065.0
40200800	TON	AGGREGATE SURFACE COURSE, TYPE B	194.0
40600100*	GAL	BITUMINOUS MATERIALS (PRIME COAT)	2087.0
48101200	TON	AGGREGATE SHOULDERS, B	573.0
542D0220	FOOT	PIPE CULVERT, CLASS D, TYPE 1, 15"	200.0
542D0223	FOOT	PIPE CULVERT, CLASS D, TYPE 1, 18"	60.0
542D0241*	FOOT	PIPE CULVERT, CLASS D, TYPE 1, 36"	120.0
56201900*	FOOT	WATER SERVICE LINE RELOCATED	100.0
70101835*	L SUM	TRAFFIC CONTROL AND PROTECTION	1.0
78001110	FOOT	PAINT PAVEMENT MARKING- LINE 4"	12857.0
X4066414*	TON	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE MIX 'C' N50	657.0
X4066614*	TON	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE IL-19.0 N50	1319.0

*SEE SPECIAL PROVISIONS



LOCATION MAP

TOTAL LENGTH OF IMPROVEMENT = 3820.00 FEET = 0.7235 MILES
3R GUIDE LINES, LOCAL ROAD
DESIGN SPEED = 25 M.P.H.
VARIANCES GRANTED: 25 M.P.H. CURVE
COMMITMENTS: NONE

CLASS IV ROAD 20 YEAR DESIGN

CURRENT ADT	2005	200
(20 YEAR) DESIGN ADT	2025	232
SDT (D.P. = 20)	YEAR	ADT
	2015	220
	P.C.	90% ADT
	S.U.	5% ADT
	M.U.	5% ADT
		11
		11

PROPOSED - OVERLAY OF EXISTING PAVEMENT

T.F. =	0.01004
I.B.R. =	3.5
Dt =	REQUIRED 1.98
Dt =	PROVIDED 2.60

NEW PAVEMENT (MECHANISTIC DESIGN 95-11)
HCV 22/DAY
CLASS IV PAVEMENT - TABLE 5 3.75" BITUMINOUS, 8" AGGREGATE BASE
PROPOSE 4" BITUMINOUS, 10" AGGREGATE BASE

PROPOSED BITUMINOUS RESURFACING:
1 1/4" SURFACE COURSE
2 3/4" BINDER COURSE

FUNCTIONAL CLASSIFICATION =
LOCAL ROAD

APPROVED March 23, 2005
Walter C. Nelson
TOULON TOWNSHIP ROAD COMMISSIONER

APPROVED March 23, 2005
Shirley E. Feltner
STARK COUNTY ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PASSED April 14, 2005
John J. Delleme
DISTRICT 4 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW:
APRIL 15, 2005
John J. Delleme
DEPUTY DIRECTOR OF HIGHWAYS, REGION THREE ENGINEER

PLANS PREPARED BY:
GEORGE P. MEISTER
COUNTY ENGINEER
REGISTERED PROFESSIONAL ENGINEER
George P. Meister
Reg. No. 62-35783
Exp. Date 11-30-05



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

QUANTITIES NOT OTHERWISE SHOWN

TWP.	COUNTY	SECTION	TWP. HWY. NO.	SHEET NO.	TOTAL SHEETS
TOULON	STARK	03-06114-00-SP	46	2	6

CONTRACT# 89305

EROSION CONTROL PLAN

- DO EARTHWORK (SMALL QUANTITY) AND CUT DITCHES.
- INSTALL PIPE CULVERTS.
- INSTALL DITCH CHECKS AT UPSTREAM END OF PIPES.
- PLACE PERIMETER EROSION CONTROL FENCE ON FILL SECTIONS, IF NEEDED.
- COMPLETE AGGREGATE AND BITUMINOUS CONCRETE WORK WHILE MAINTAINING TEMPORARY EROSION CONTROL.
- PLACEMENT OF PERMANENT EROSION CONTROL.
- REMOVE AND PROPER CLEAN UP OF TEMPORARY EROSION CONTROL.
- FINAL GRADING, PLACING AGGREGATE SURFACES AND OTHER MISCELLANEOUS ITEMS.

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

LOCATION	QUANTITY
40' LT STA 102+00	12.0 UNITS
24' LT STA 103+50	14.0 UNITS
23' LT STA 104+25	14.0 UNITS
	40.0 UNITS
	USE 40.0 UNITS

20200100 EARTH EXCAVATION

(SEE EARTHWORK COMPUTATION SHEETS)

LOCATION	QUANTITY
TR 46 (MAIN ROAD)	827.7 CU YD
TR 117 (SIDE ROAD)	818.7 CU YD
	1646.4 CU YD
	USE 1647 CU YD

20400800 FURNISHED EXCAVATION

(SEE EARTHWORK COMPUTATION SHEETS - USE 32% SHRINKAGE)

LOCATION	CALCULATION	QUANTITY
TR 46	1247 - [828 x (1-.32)]	684.0 CU YD
TR 117	242 - [819 x (1-.32)]	315.0 CU YD
		369.0 CU YD
		USE 369.0 CU YD

35101400 AGGREGATE BASE COURSE, TYPE B 10"

USE 2.05 TON/CY

LOCATION	WIDTH	SQ YARD	QUANTITY
TR 46 STA 96+50 TO 105+50	22'	2200.0	1252.8 TON
TR 117 STA 0+12 TO 4+50	22'	1070.7	609.7 TON
EXTRA WIDTH INSIDE OF CURVE	2'	190.8	108.6 TON
INTERSECTION (SEE DETAIL PAGE 3)	VAR	124.4	70.9 TON
MAILBOX (SEE DETAIL PAGE 3)	8'	40.0	22.8 TON
			2064.8 TON
			USE 2065 TON

78001110 PAINT PAVEMENT MARKING LINE 4"

LOCATION	LENGTH	QUANTITY
EDGE STRIPES (WHITE)		
TR 46 STA 88+00 TO 116+82	2882'	5764.0 FT
TR 117 STA 0+12 TO 9+00	888'	1776.0 FT
		7540.0 FT
NO PASSING (YELLOW)		
TR 46 RT STA 88+00 TO 103+00	1500'	1500.0 FT
TR 466 LT STA 88+00 TO 108	2000'	2000.0 FT
TR 117 RT STA 0+12 TO 9+00	888'	888.0 FT
TR 117 LT STA 0+12 TO 2+00	188'	188.0 FT
TR 46 C 2+00 TO 9+00	700'	175.0 FT
TR 46 C 103+00 TO 116+82	1382'	345.5 FT
TR 46 C 106+00 TO 116+82	882'	220.5 FT
		5317.0 FT

TOTAL 12857.0 FT

40600100 BITUMINOUS MATERIAL PRIME COAT

LOCATION	MATERIAL	WIDTH	QUANTITY
TR 46 STA 88+00 TO 96+50	RC 70	19'	179.4 GAL
TR 46 STA 96+50 TO 105+50	MC 30	21'	840.0 GAL
TR 117 STA 0+12 TO 4+50	MC 30	21'	408.8 GAL
TR 117 STA 4+50 TO 9+00	RC 70	18'	90.0 GAL
TR 46 STA 105+50 TO 116+82	RC 70	20'	251.5 GAL
MAILBOX STA 100+50 (SEE DETAIL PAGE 3)	MC 30	8'	16.0 GAL
ENTRANCES (SEE DETAIL PAGE 3)	MC 30	VAR	265.0 GAL
INTERSECTION LT 102+00 (SEE DETAIL PAGE 3)	MC 30	VAR	36.4 GAL
			2087.1 GAL
			USE 2087 GAL

X4066614 BITUMINOUS CONCRETE BINDER COURSE SUPERPAVE, IL-19.0, N50

LOCATION	WIDTH	SQ YARD	QUANTITY
TR 46 STA 88+00 TO 96+50	19'	1794.4	276.3 TON
TR 46 STA 96+50 TO 105+50	21'	2100.0	323.4 TON
TR 46 105+50 TO 116+82	20'	2515.6	387.4 TON
TR 117 STA 0+12 TO 4+50	21'	1022.0	157.4 TON
TR 117 4+50 TO 9+00	18'	900.0	138.6 TON
18" WIDENING AT CURVE	18"	143.1	22.0 TON
INTERSECTION (SEE DETAILS PAGE 3)	VAR	91.1	14.0 TON
			1319.1 TON
			USE 1319 TON

X4066414 BITUMINOUS CONCRETE SURFACE COURSE SUPERPAVE MIX "C", N50

LOCATION	WIDTH	SQ YARD	QUANTITY
TR 46 STA 88+00 TO 96+50	19'	1794.4	125.6 TON
TR 46 STA 96+50 TO 105+50	21'	2100.0	147 TON
TR 46 105+50 TO 116+82	20'	2515.6	176.1 TON
TR 117 STA 0+12 TO 4+50	21'	1022.0	71.5 TON
TR 117 4+50 TO 9+00	18'	900.0	63.0 TON
18" WIDENING AT CURVE	18"	143.1	10 TON
INTERSECTION (SEE DETAILS PAGE 3)	VAR	91.1	6.4 TON
ENTRANCES (SEE DETAILS PAGE 3)	VAR	215.3	48.24 TON
MAIL BOX (SEE DETAILS PAGE 3)	VAR	40	8.96 TON
			656.8 TON
			USE 657 TON

48101200 AGGREGATE SHOULDERS TYPE B

NOTE: 2 SIDES @ 3' WIDE @ 4" DEEP - USE 2.05 TON/CU YD

LOCATION	SQ YARD	QUANTITY
TR 46 STA 88+00 TO 116+82	960.7	437.8 TON
TR 117 STA 0+12 TO 9+00	296.0	134.8 TON
		572.6 TON
		USE 573.0 TON

28000250 TEMPORARY EROSION CONTROL SEEDING

LOCATION	QUANTITY
ENTIRE JOB	0.8 acre @ 100#/acre
	80.0 POUNDS
	80.0 POUNDS
	USE 80 POUNDS

28000400 PERIMETER EROSION BARRIER

LOCATION	QUANTITY
TR 46 RT + LT STA 98+50 TO 100+00	300.0 FEET
TR 46 RT STA 101+50 TO 104+00	250.0 FEET
TR 117 RT STA 0+12 TO 1+00	100.0 FEET
	650.0 FEET
	USE 650.0 FEET

28000300 TEMPORARY DITCH CHECKS

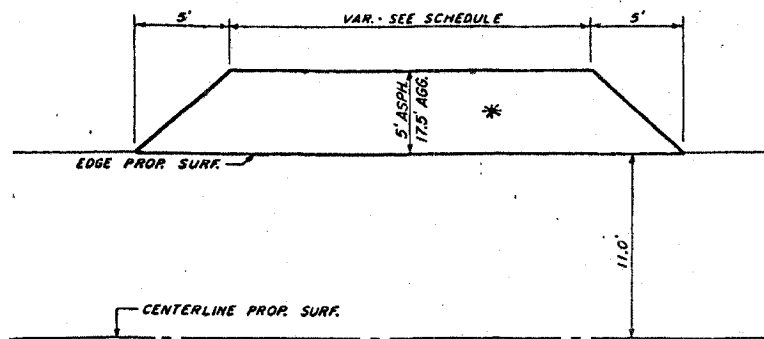
LOCATION	QUANTITY
TR 46 LT STA 97+80	1.0 EACH
TR 46 RT STA 98+00	1.0 EACH
TR 46 LT STA 101+88	1.0 EACH
TR 46 RT STA 103+50	1.0 EACH
TR 46 LT STA 103+80	1.0 EACH
TR 117 RT STA 5+00	1.0 EACH
	6.0 EACH
	USE 6.0 EACH

25001000 SEEDING CLASS 2 (SPECIAL)

LOCATION	WIDTH	QUANTITY
TR 46 STA 96+50 TO 105+50	22'	0.454 ACRE
TR 117 STA 0+30 TO 4+50	26'	0.251 ACRE
AREAS NORTH OF INTERSECTION		
100+50 TO 1+75	VAR	0.088 ACRE
		0.793 ACRE
		USE 0.8 ACRE

ENTRANCE DETAIL

SCALE: 1" = 5'



SCHEDULE OF ENTRANCES

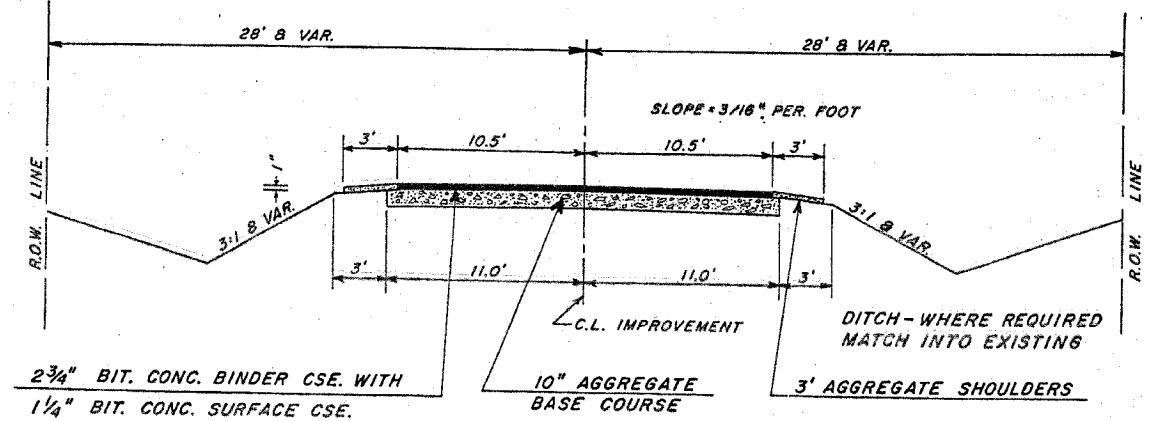
STATION	WIDTH	THICKNESS	SQ YDS AGG	TONS AGG SURF CSE	SQ YDS ASPHALT	TONS ASPHALT	
90+50	36'	4"	72.8	18.8	22.8	5.10	
97+80	18'	8"	37.8	17.2	12.8	2.87	
98+00	18'	8"	37.8	17.2	12.8	2.87	
100+00	18'	8"	37.8	17.2	12.8	2.87	
100+00 TO 100+50							
RT			158.8	81.8	41.7	9.34	
LT			37.8	17.2	12.8	2.87	
103+80	18'	8"	37.8	17.2	12.8	2.87	
106+80	18'	4"	37.8	8.6	12.8	2.87	
108+36	18'	4"	37.8	8.6	12.8	2.87	
111+80	36'	4"	72.8	18.8	22.8	5.10	
116+30	18'	4"	37.8	8.6	12.8	2.87	
5+00	18'	4"	37.8	8.6	12.8	2.87	
S.R. LT			37.8	8.6	12.8	2.87	
S.R. LT	6+00	18'	4"	37.8	8.6	12.8	2.87
			662.5	193.8	215.3	48.24	

*CONSISTS OF 4" BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE MIX "C" N50

TWP.	COUNTY	SECTION	TWR HWY. NO.	SHEET NO.	TOTAL SHEETS
TOULON	STARK	03-06114-00-SP	46	3	6

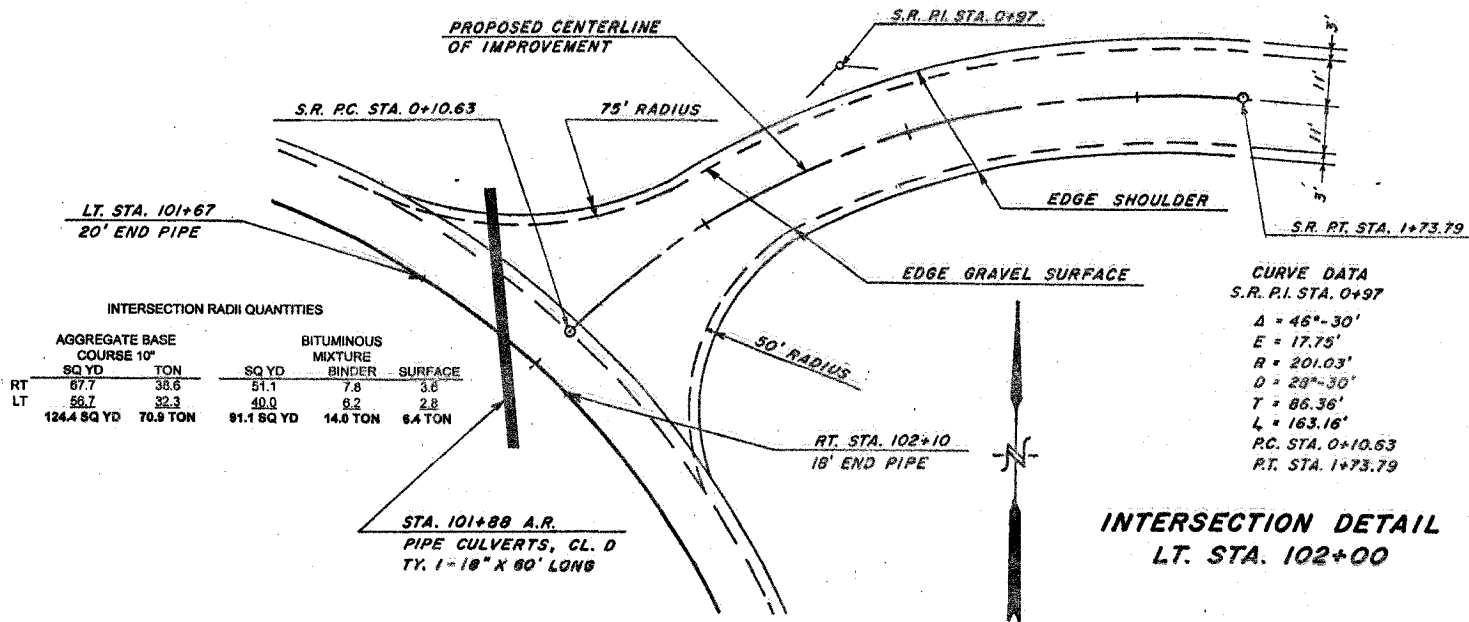
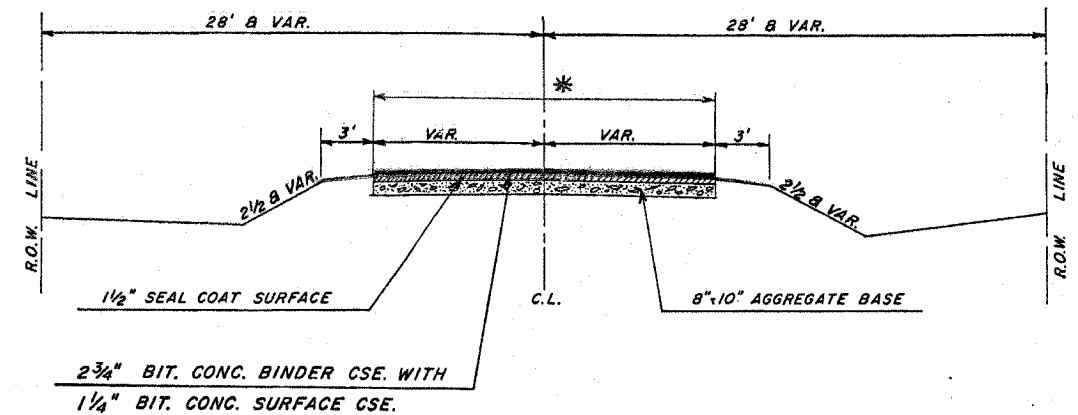
PROPOSED TYPICAL SECTION

STA. 96+50 TO 105+50
SIDE ROAD 0+12 TO 4+50



PROPOSED TYPICAL SECTION PAVING EXISTING PAVEMENT

STA. 88+00 TO 96+50 (19' WIDE) *
STA. 105+50 TO 116+82 (20' WIDE) *
STA. 4+50 TO 9+50 (18' WIDE) *



CURVE DATA
S.R. P.I. STA. 0+97

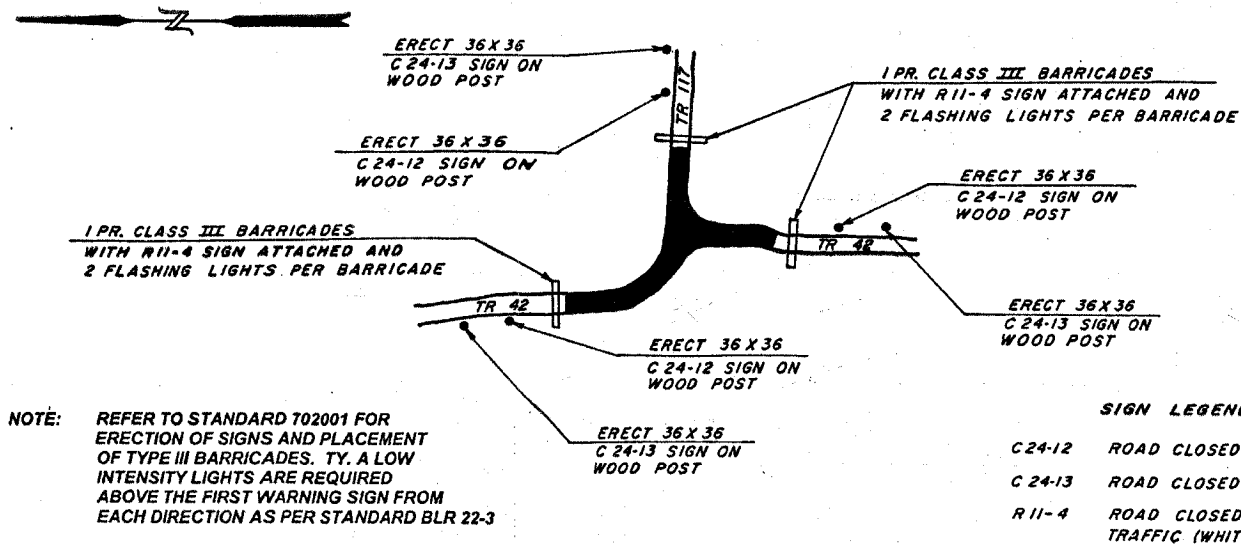
Δ = 46°-30'
E = 17.75'
R = 201.03'
D = 28°-30'
T = 86.36'
L = 163.16'
P.C. STA. 0+10.63
P.T. STA. 1+73.79

INTERSECTION DETAIL
LT. STA. 102+00

INTERSECTION RADII QUANTITIES

	AGGREGATE BASE COURSE 10"		BITUMINOUS MIXTURE BINDER SURFACE	
	SQ YD	TON	SQ YD	TON
RT	87.7	38.6	51.1	7.8
LT	56.7	32.3	40.0	6.2
	124.4 SQ YD	70.9 TON	91.1 SQ YD	14.0 TON

LOCATION MAP SHOWING REQUIRED BARRICADE AND SIGN PLACEMENT

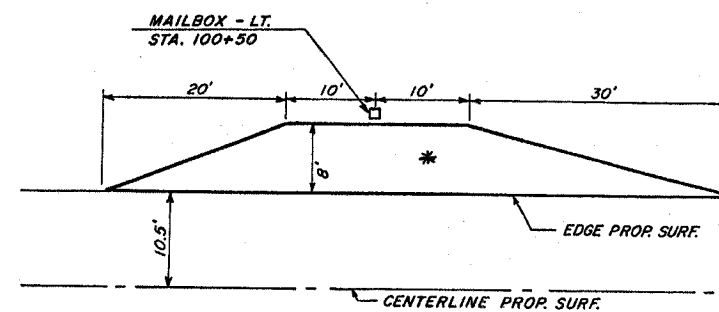


NOTE: REFER TO STANDARD 702001 FOR ERECTION OF SIGNS AND PLACEMENT OF TYPE III BARRICADES. TY. A LOW INTENSITY LIGHTS ARE REQUIRED ABOVE THE FIRST WARNING SIGN FROM EACH DIRECTION AS PER STANDARD BLR 22-3

SIGN LEGEND

C 24-12	ROAD CLOSED 500 FT.
C 24-13	ROAD CLOSED 1000 FT.
R 11-4	ROAD CLOSED TO THRU TRAFFIC (WHITE)

MAILBOX TURNOUT DETAIL



MAILBOX TURNOUTS

STATION	WIDTH	SQ YDS AGG	TONS Agg Base Cse 10"	SQ YDS ASPHALT	TONS ASPHALT
100+50	8'	40.0	22.8	40.0	8.96
		40.0			8.96

*CONSISTS OF 4" BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE MIX "C" N50

TWP.	COUNTY	SECTION	TWP. HWY. NO.	SHEET NO.	TOTAL SHEETS
TOULON	STARK	03-06114-00-SP	46	5	8

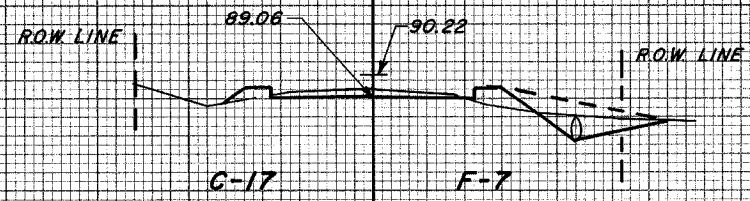
CONTRACT# 89305

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 FINAL SURVEY NOTE BOOK NO. _____
 AREAS CHECKED _____

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 ORIGINAL SURVEY NOTE BOOK NO. _____
 AREAS CHECKED _____

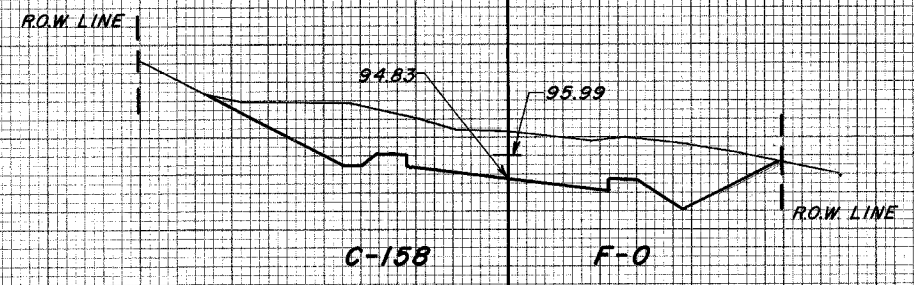
98
+
00

89
ENT. RT. 98+00
15" X 40' CULVERT



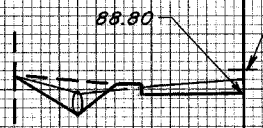
101
+
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97



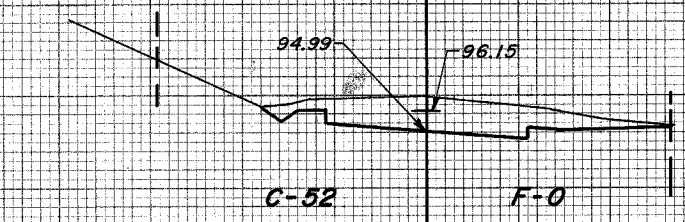
97
+
80

89
ENT. RT. 97+80
15" X 40' CULVERT



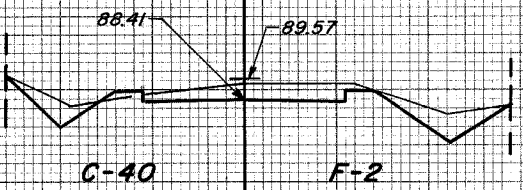
100
+
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97



97
+
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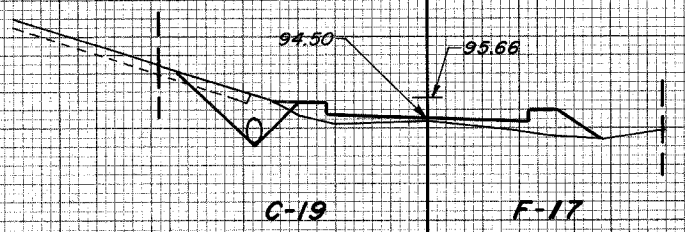
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100
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94

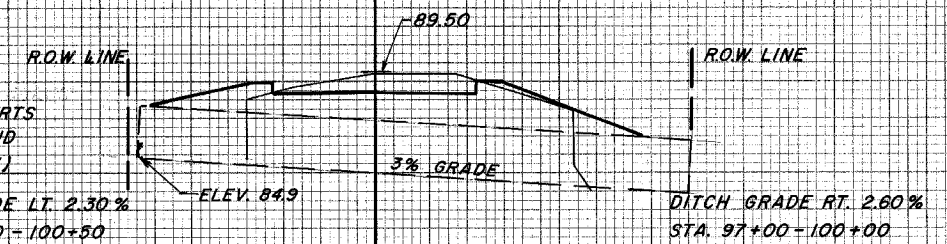
ENT. LT. 100+00
15" X 40' CULVERT



97
+
00

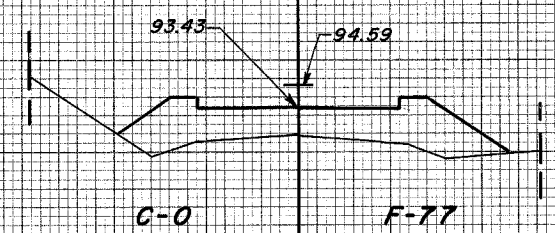
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INSTALL 2 - 36" X 80' CULVERTS
WITH RIPRAP AT EACH END
OF CULVERTS (ON SKEW)

DITCH GRADE LT. 2.30%
STA. 97+00 - 100+50



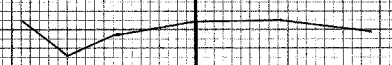
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91



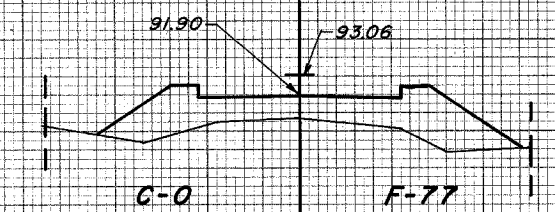
96
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89



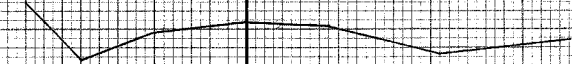
99
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90



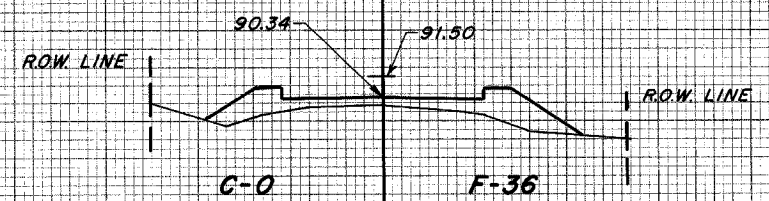
96
+
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89



98
+
50

89

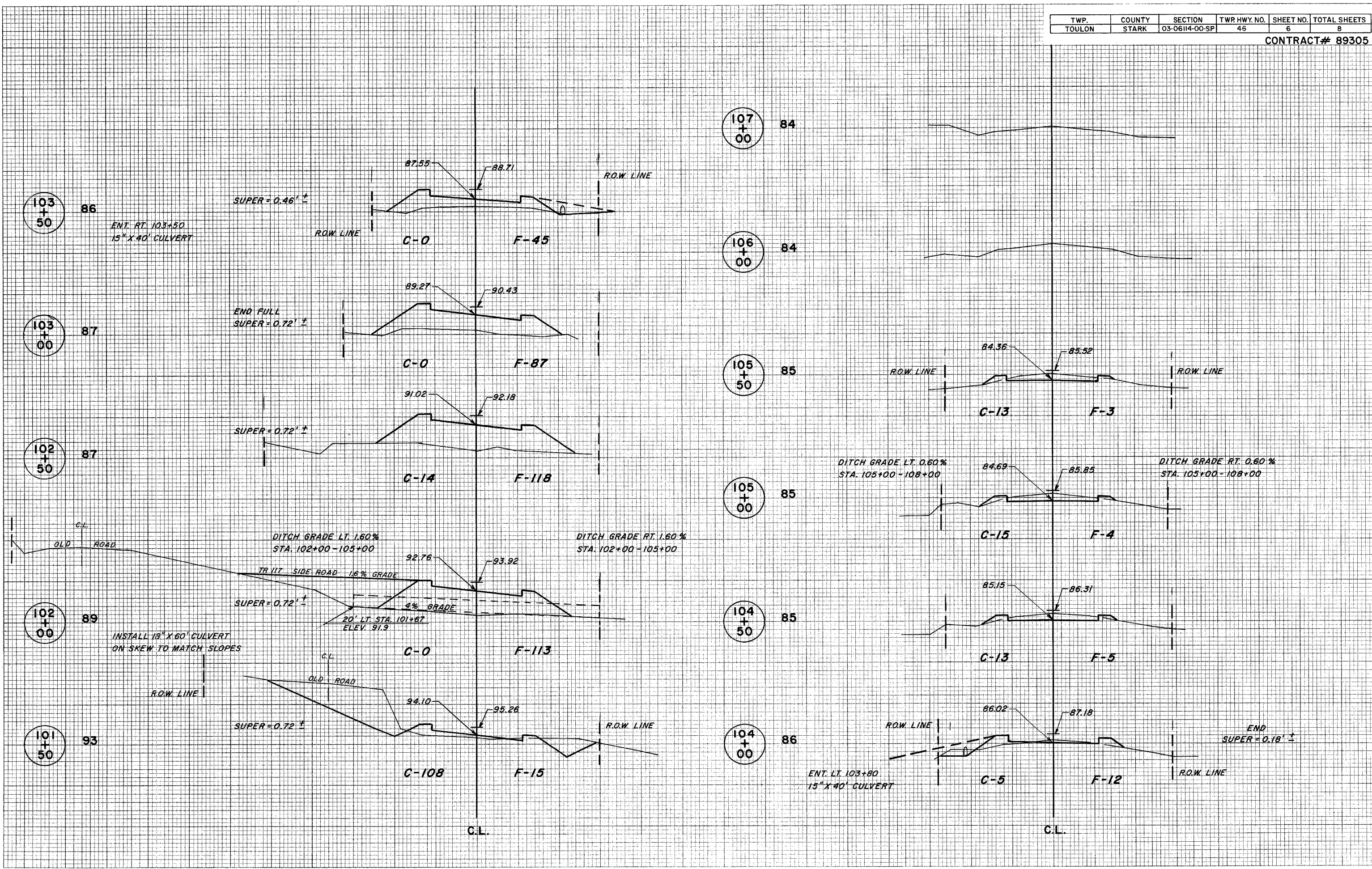


C.L.

C.L.

DATE _____
 BY _____
 ORIGINAL SURVEY PLOTTED _____
 SURVEY REVISIONS _____
 NOTEBOOK NO. _____
 AREA CHECKED _____

DATE _____
 BY _____
 ORIGINAL SURVEY PLOTTED _____
 SURVEY REVISIONS _____
 NOTEBOOK NO. _____
 AREA CHECKED _____

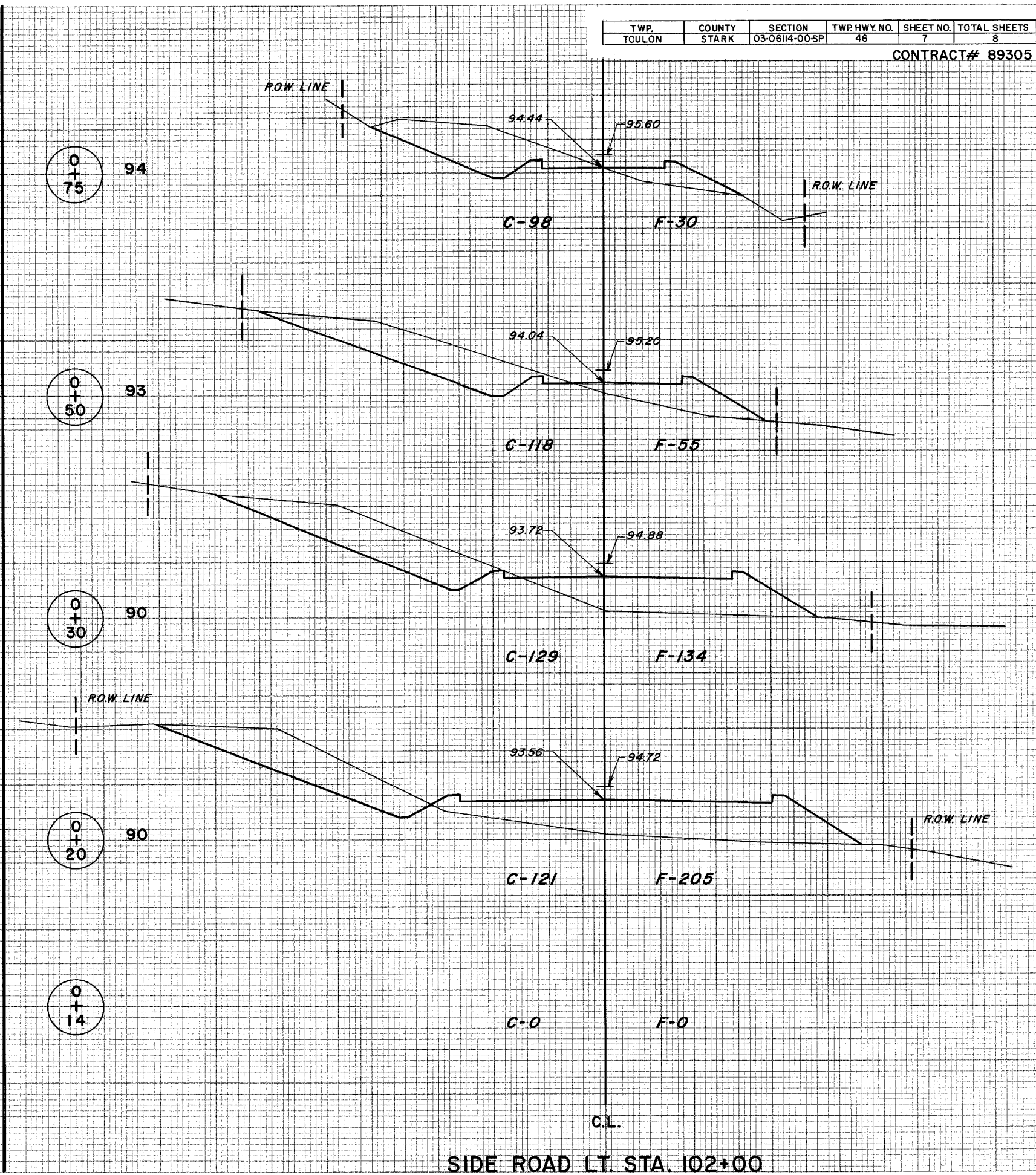
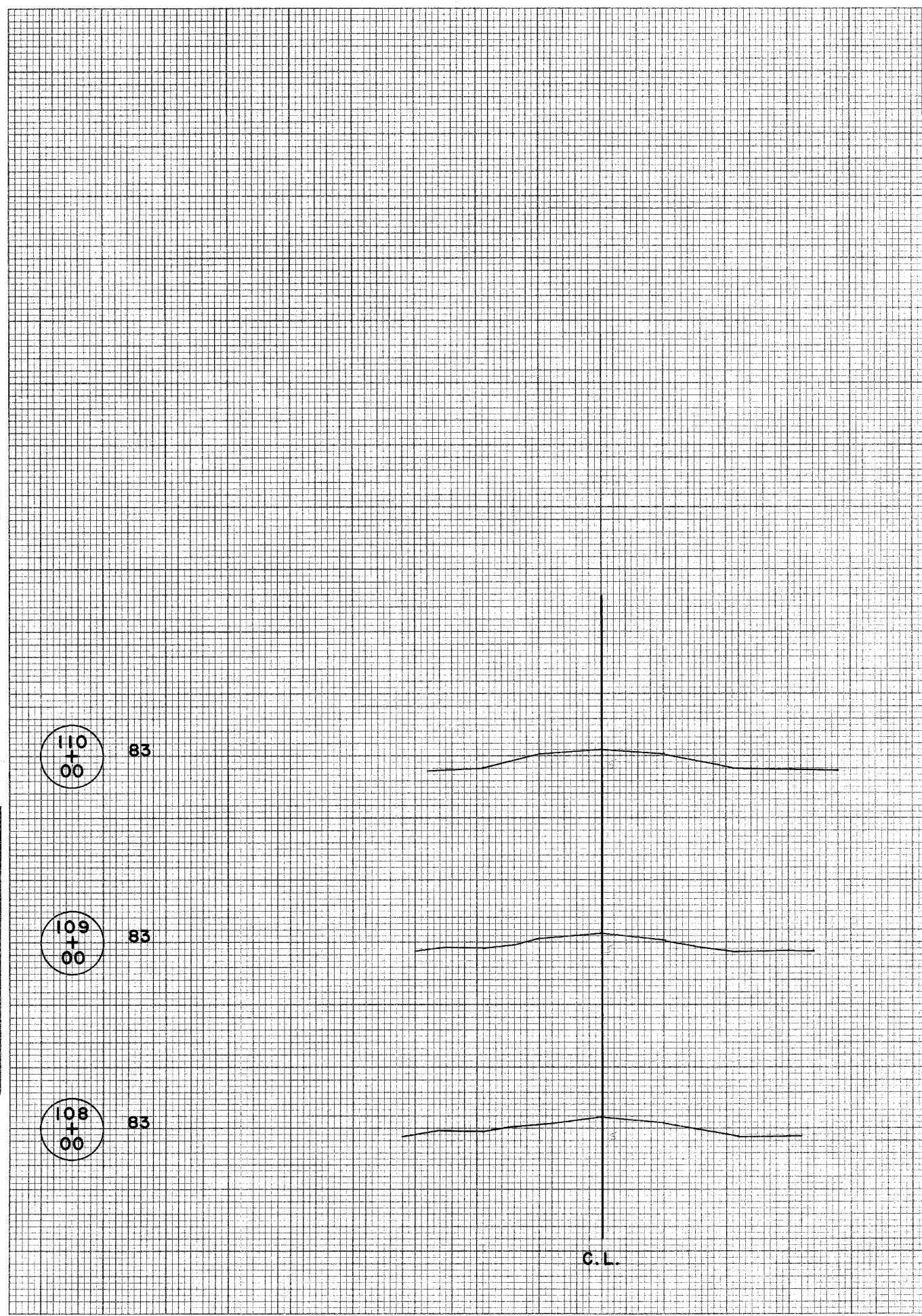


TWP.	COUNTY	SECTION	TWP. HWY. NO.	SHEET NO.	TOTAL SHEETS
TOULON	STARK	03-06114-00SP	46	7	8

CONTRACT# 89305

FINAL SURVEY
 SURVEYED BY _____
 PLOTTED BY _____
 NOTEBOOK NO. _____
 AREAS CHECKED _____

ORIGINAL SURVEY
 SURVEYED BY _____
 PLOTTED BY _____
 NOTEBOOK NO. _____
 AREAS CHECKED _____



SIDE ROAD LT. STA. 102+00

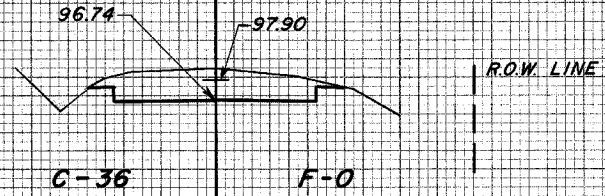
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 BY: _____
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 NOTE BOOK TEMPLATE _____
 NO. _____
 AREAS CHECKED _____

DATE: _____
 BY: _____
 ORIGINAL SURVEYED _____
 SURVEY PLOTTED _____
 NOTE BOOK TEMPLATE _____
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 AREAS CHECKED _____

2
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75

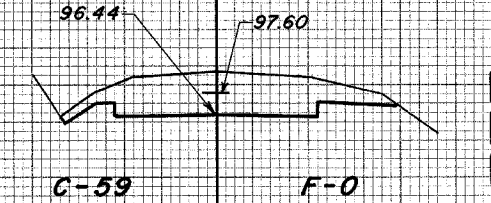
98

R.O.W. LINE



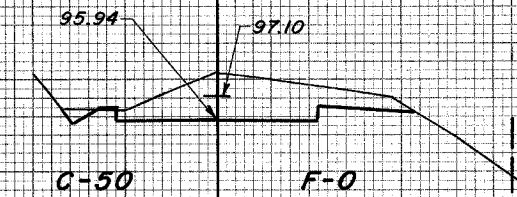
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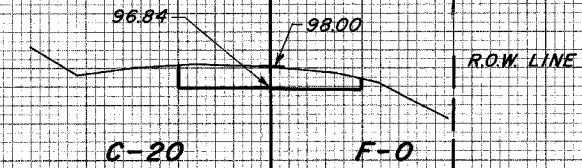
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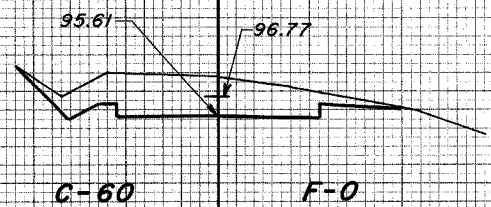
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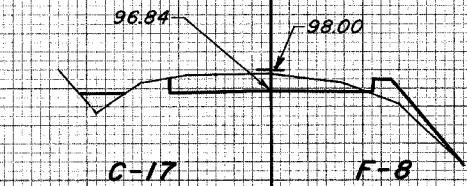
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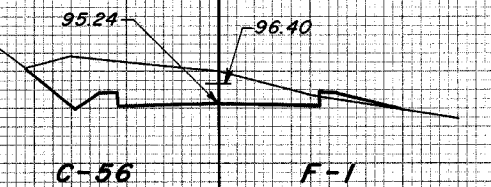
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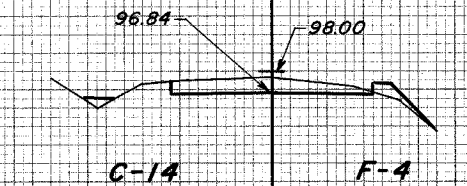
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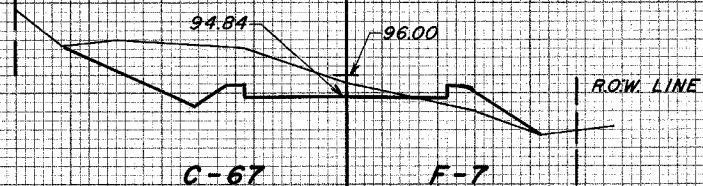
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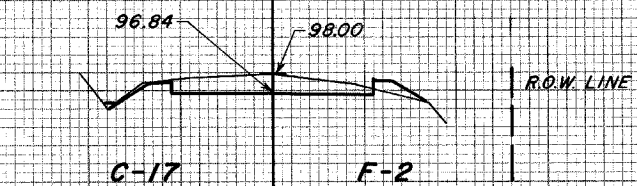
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