CONTRACT NO. 87313

INDEX OF SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
LIVINGSTON COUNTY

PLANS FOR
PROPOSED LOCAL AGENCY IMPROVEMENT
SURFACE TRANSPORTATION PROGRAM

F.A.S. ROUTE 343 & 1362, CH 3 & 9, SECTION 01-00025-04-RS
CHATSWORTH ROAD & CHARLOTTE SPUR
PROJECT NO. SR-343(108)
JOB NO. C-93-064-04

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343 & 1362	01-00025-04-RS	LIVINGSTON	12	1

PROJECT NO. SR-343(108)

SUMMARY OF QUANTITIES

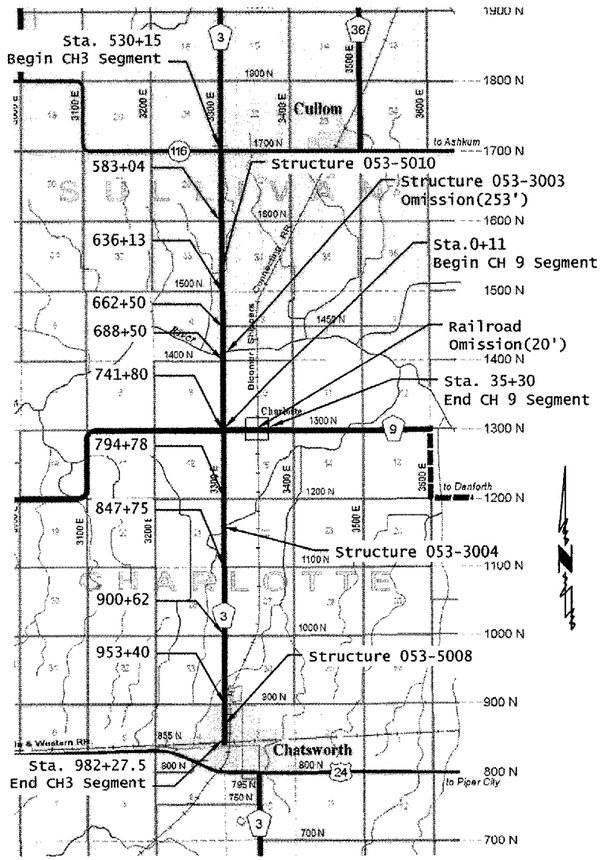
CONST. CODE I000

	ITEM NO.	ITEM	UNIT	QUANTITIES
	20200100	EARTH EXCAVATION	CU YD	500.0
	35100100	AGGREGATE BASE COURSE, TYPE A	TON	215.0
	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	6,118.0
	40600300	AGGREGATE (PRIME COAT)	TON	231.0
	40800010	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	910.0
	40800040	INCIDENTAL BITUMINOUS SURFACING	TON	521.0
*	44000030	BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	1,505.0
*	48101200	AGGREGATE SHOULDERS, TYPE B	TON	9,477.0
*	50105220	PIPE CULVERT REMOVAL	FOOT	6.0
	50300225	CONCRETE STRUCTURES	CU YD	1.5
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	245.0
	54001000	BOX CULVERT END SECTIONS	EACH	2.0
	54010302	PRECAST CONCRETE BOX CULVERT 3' X 2'	FOOT	72.0
*	54248515	CONCRETE COLLAR	EACH	2.0
Δ	63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	1,850.0
Δ	63000005	STEEL PLATE BEAM GUARD RAIL, TYPE B	FOOT	100.0
Δ	63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	75.0
Δ	63100105	TRAFFIC BARRIER TERMINAL, TYPE 10	EACH	4.0
Δ*	63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	18.0
	63200310	GUARDRAIL REMOVAL	FOOT	1,325.0
*	67100100	MOBILIZATION	L SUM	1.0
*	70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1.0
	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	9,726.0
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1,622.0
Δ	78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	122.4
Δ	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	18,877.0
Δ*	78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	44.0
Δ*	78200455	BIDIRECTIONAL GUARD RAIL REFLECTORS	EACH	59.0
Δ*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	18.0
*	X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	10,186.0
*	X4066614	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50	TON	19,829.0
*	XX003184	BITUMINOUS BASE COURSE WIDENING	TON	240.0
*	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1.0
*	Z0055300	RUMBLE STRIP	EACH	4.0

* SEE SPECIAL PROVISIONS Δ SPECIALTY ITEMS

CHATSWORTH ROAD & CHARLOTTE SPUR - COLLECTOR
POSTED SPEED = 55 MPH-RURAL, 35 MPH-URBAN
DESIGN SPEED = 50 MPH-RURAL, 30 MPH-URBAN
DESIGN ADT= 650(FAS 343), 175(FAS 1362)/ YR 2014
CLASS III ROADS, 80,000# DESIGN, 15 YEAR D.P.

0 10 20 30 SHEET 8
0 10 20 SHEET 6
SCALES APPLY TO SHEET 6 & 8 ONLY
REMAINING SHEETS ARE NOT TO SCALE



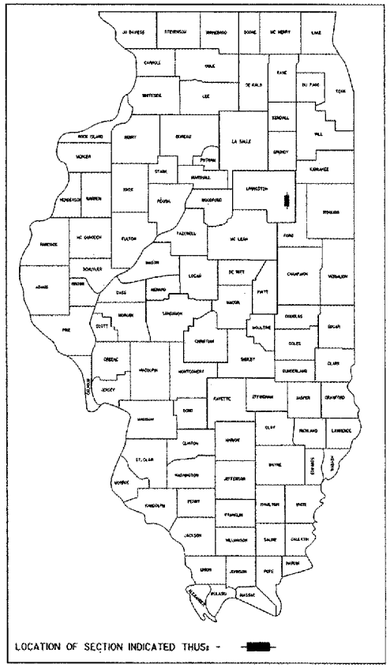
GROSS LENGTH = 48,731.5' = 9.23 MILES
NET LENGTH = 48,458.5' = 9.17 MILES
0 1 2 3 4
SCALE(MILES)

UTILITIES

CONTACT J.U.L.I.E. 800-892-0123 BEFORE DIGGING

STATE STANDARDS DETAILS

630001-06	701301-02	BLR 22-4
630101-06	701306-01	BLR 23-1
631026-02	701311-02	BLR 24-1
631046-02	702001-06	
701201-02	BLR 21-6	



DAVID R. WINTERS
42921
REGISTERED PROFESSIONAL ENGINEER OF
ILLINOIS

THESE PLANS WERE MADE BY ME OR BY A MEMBER OF MY STAFF WORKING UNDER MY PERSONAL SUPERVISION.

03/29/06
DATE

COUNTY ENGINEER, P.E. NO. 42921
EXPIRATION DATE 11/30/2007

"THE ACCEPTANCE OF THIS PROJECT IS BASED ON THE MINIMUM DESIGN CRITERIA UNDER 3R GUIDELINES."

APPROVED 03/29 20 06
LIVINGSTON COUNTY OFFICIAL

PASSED 04/06 20 06
DISTRICT ENGINEER OF LOCAL ROADS & STREETS

APPROVED 04/06 20 06
DEPUTY DIRECTOR OF HIGHWAYS, REGIONAL ENGINEER
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

THIS PROJECT CONSISTS OF BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50, BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50, AND AGGREGATE SHOULDERS BEGINNING AT A POINT NEAR THE INTERSECTION OF COUNTY HIGHWAY 3 AND ILLINOIS ROUTE 116(1700N, 3300E), WEST OF CULLOM, ILLINOIS AND EXTENDING IN A SOUTHERLY DIRECTION TO A POINT NEAR THE INTERSECTION OF LOCUST STREET AND COUNTY HIGHWAY 3 IN CHATSWORTH, ILLINOIS, ALSO TO INCLUDE A SECTION FROM THE INTERSECTION OF COUNTY HIGHWAY 3 AND COUNTY HIGHWAY 9(1300N, 3300E) AND EXTENDING EASTERLY 3500 FEET THOUGH CHARLOTTE, ILLINOIS.

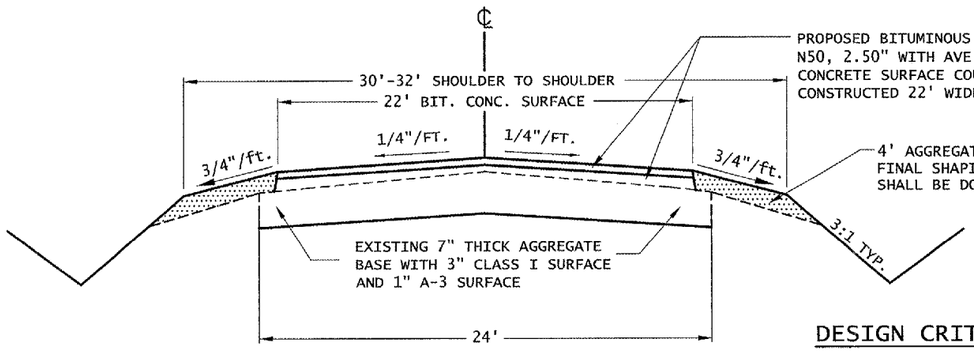
CONTRACT NO. 87313

CONTRACT NO. 87313

NOT PLOTTED TO SCALE

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343 & 1362	01-00025-04-RS	LIVINGSTON	12	2

PROJECT NO. SR-343(108)



TYPICAL CROSS SECTION

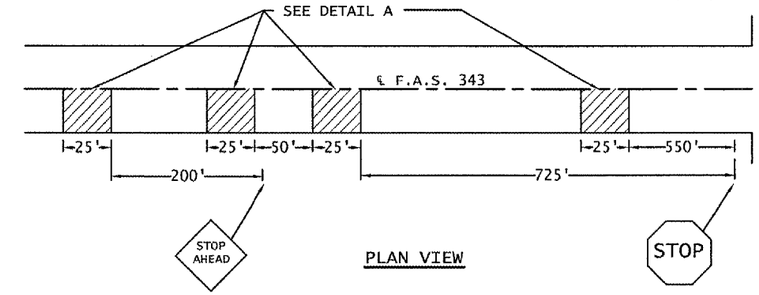
Sta. 530+15 to 982+27.5(FAS RTE 343)
(See Sht. 9 for Transition & Taper Details)

DESIGN CRITERIA

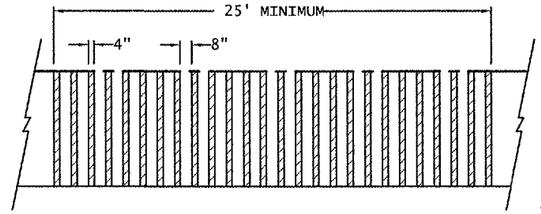
STRUCTURAL DESIGN TRAFFIC (S.D.T.):80,000#, CLASS III
YEAR 2014: PV 572 , SU 46, MU 33
MINIMUM SOIL SUPPORT: IBR = 3.00
T.F. = 0.132; Dt = 3.0

PAVEMENT STRUCTURAL MATERIALS:

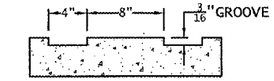
TYPE	DEPTH	a
EXISTING 7" AGGREGATE TY. B-CRUSHED	7 "	0.08
EXISTING A-3 SURFACE	1 "	0.15
EXISTING CLASS I SURFACE	3 "	0.30
NEW BINDER, SUPERPAVE N50	2½"	0.32
NEW SURFACE, SUPERPAVE N50	1½"	0.40



PLAN VIEW



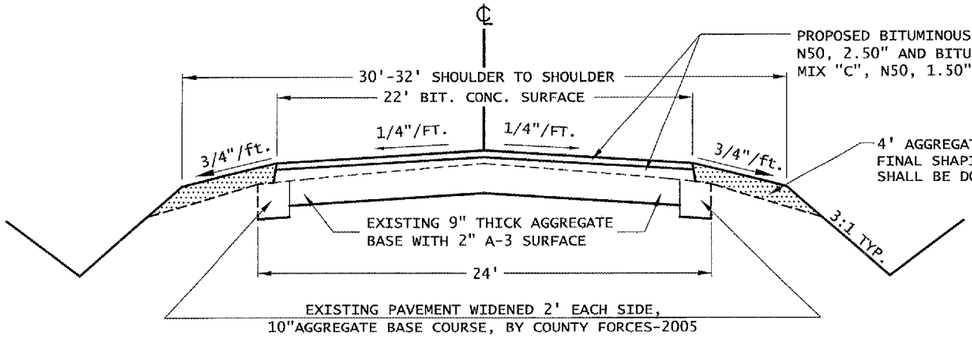
DETAIL A - PLAN VIEW



DETAIL A - ELEVATION

GROOVED RUMBLE STRIP APPLICATION

IN ADVANCE OF IL RT 116 INTERSECTION



TYPICAL CROSS SECTION

Sta. 0+11 to 35+30(FAS RTE 1362)
(See Sht. 9 for Transition & Taper Details)

DESIGN CRITERIA

STRUCTURAL DESIGN TRAFFIC (S.D.T.):80,000#, CLASS III
YEAR 2014: PV 154 , SU 12, MU 8
MINIMUM SOIL SUPPORT: IBR = 3.00
T.F. = 0.035; Dt = 2.4

PAVEMENT STRUCTURAL MATERIALS:

TYPE	DEPTH	a
EXISTING 9" AGGREGATE TY. B-CRUSHED	9 "	0.08
EXISTING A-3 SURFACE	2 "	0.15
NEW BINDER, SUPERPAVE N50	2½"	0.32
NEW SURFACE, SUPERPAVE N50	1½"	0.40

SCHEDULE OF PAINT PAVEMENT MARK 4"

LOCATION STATION TO STATION			NO PASSING ZONE NBL	NO PASSING ZONE SBL	SKIP DASH ℄
BEGIN CH 3					
530+15	to	546+46			408
546+46	to	552+80		634	159
552+80	to	557+14			109
557+14	to	562+65	551		138
562+65	to	567+45			120
567+45	to	574+06		661	165
574+06	to	579+19			128
579+19	to	585+48	629		157
585+48	to	914+31			8,221
914+31	to	920+60		629	157
920+60	to	925+41			120
925+41	to	931+72	631		158
931+72	to	943+49			294
943+49	to	952+15		866	217
952+15	to	954+10	195	195	
954+10	to	961+04	694		174
961+04	to	979+81			469
979+81	to	982+27		246	62
END CH 3					
BEGIN CH9			EBL	WBL	℄
0+11	to	21+95			546
21+95	to	26+16	421		105
26+16	to	26+62			12
26+62	to	30+51		389	97
30+51	to	35+30			120
END CH 9					
		TOTALS	3,121	3,620	12,136
		TOTAL PAY QUANTITY		18,877	FOOT

RR Symbols & 24" Stripes - Charlotte	*SQ FT*	*FOOT*	
78001100 - PT PVT MK LTRS & SYMB	122.4		
78001180 - PAINT PVT MK LINE 24		44	

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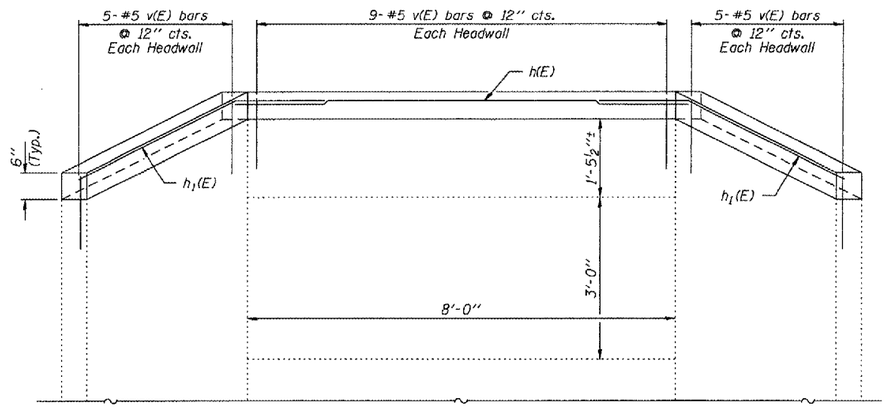
CONTRACT NO. 87313

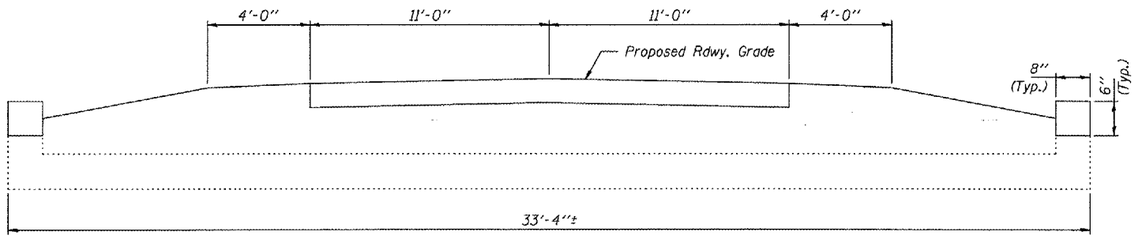
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	01-00025-04-RS	LIVINGSTON	12	3

PROJECT NO. SR-343(108)

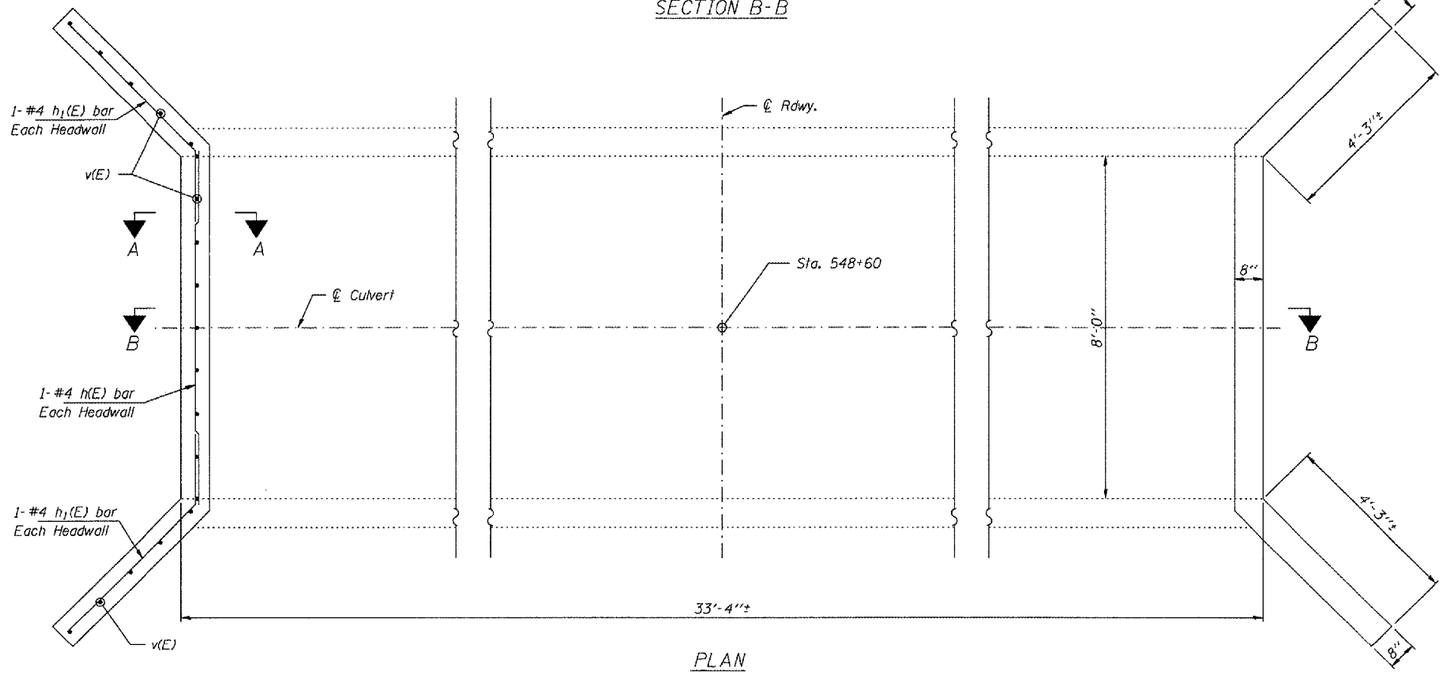
NOT PLOTTED TO SCALE



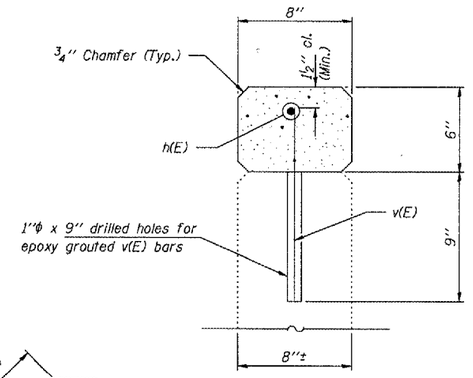
ELEVATION



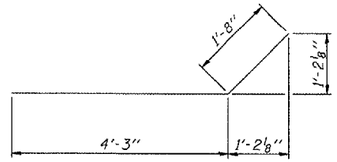
SECTION B-B



PLAN



SECTION A-A



BAR $h_1(E)$*

* $h_1(E)$ bars shall be bent in the field to match the existing wingwall slope.

NOTES

Epoxy Grout v(E) bars in to drilled 1"ϕ x 9" holes in headwall.

The epoxy grout and method of application shall be in accordance with Section 584 of the Standard Specifications and approved by the Engineer.

The cost of drilling and epoxy grouting the v(E) bars shall be included in Reinforcement Bars, Epoxy Coated.

Reinforcement bars shall conform to the requirements AASHTO M-31 or M-322, Grade 60.

All reinforcement bars shall be epoxy coated.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation or a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Guardrail shall be attached in accordance with Standard 630101.

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	2	#4	8'-6"	——
$h_1(E)$	4	#4	5'-11"	——
v(E)	38	#5	1'-1"	——
Concrete Structures			Cu. Yd.	0.4
Reinf. Bars, Epoxy Coated			Pound	70

HLR
Account Number 12-56-0027-1
Date: 06/13/05
Rice, Berry and Associates
A Division of Hampton, Lenzini and Renwick, Inc.
Civil & Structural Engineers
801 S. Durkin Drive
Springfield, Illinois 62704
217-546-3400
P.O. Box 1036
DuBuoin, Illinois 62832
618-790-4637
DESIGNED: S.M.S. | CHECKED: S.W.M. | DRAWN: D.B.

GENERAL PLAN AND ELEVATION

Loc. 1 - Str. # 3793

LIVINGSTON COUNTY

STATION 548+60

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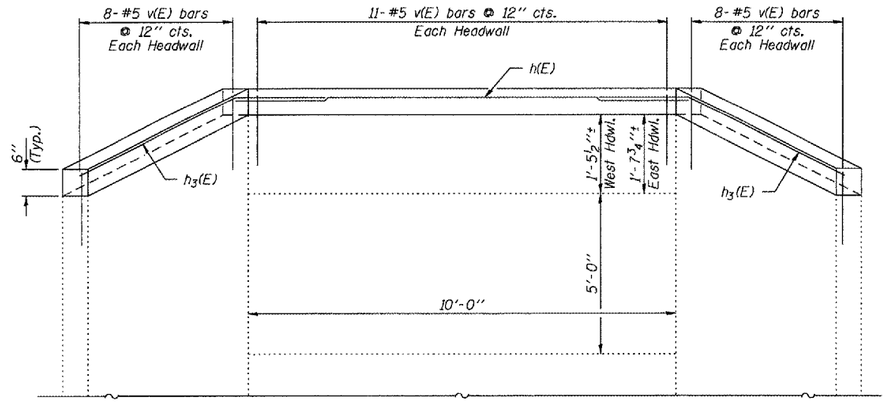
CONTRACT NO. 87313

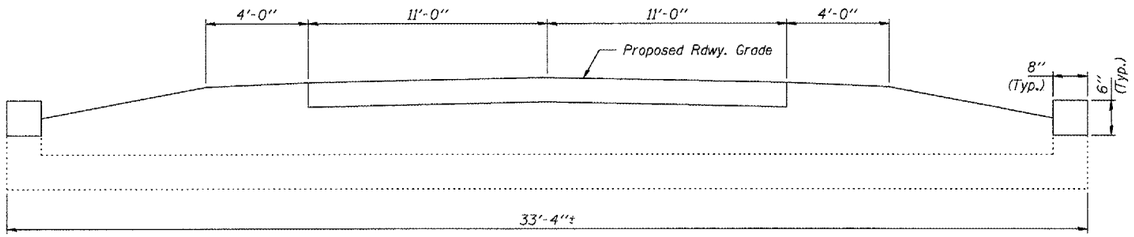
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	01-00025-04-RS	LIVINGSTON	12	4

PROJECT NO. SR-343(108)

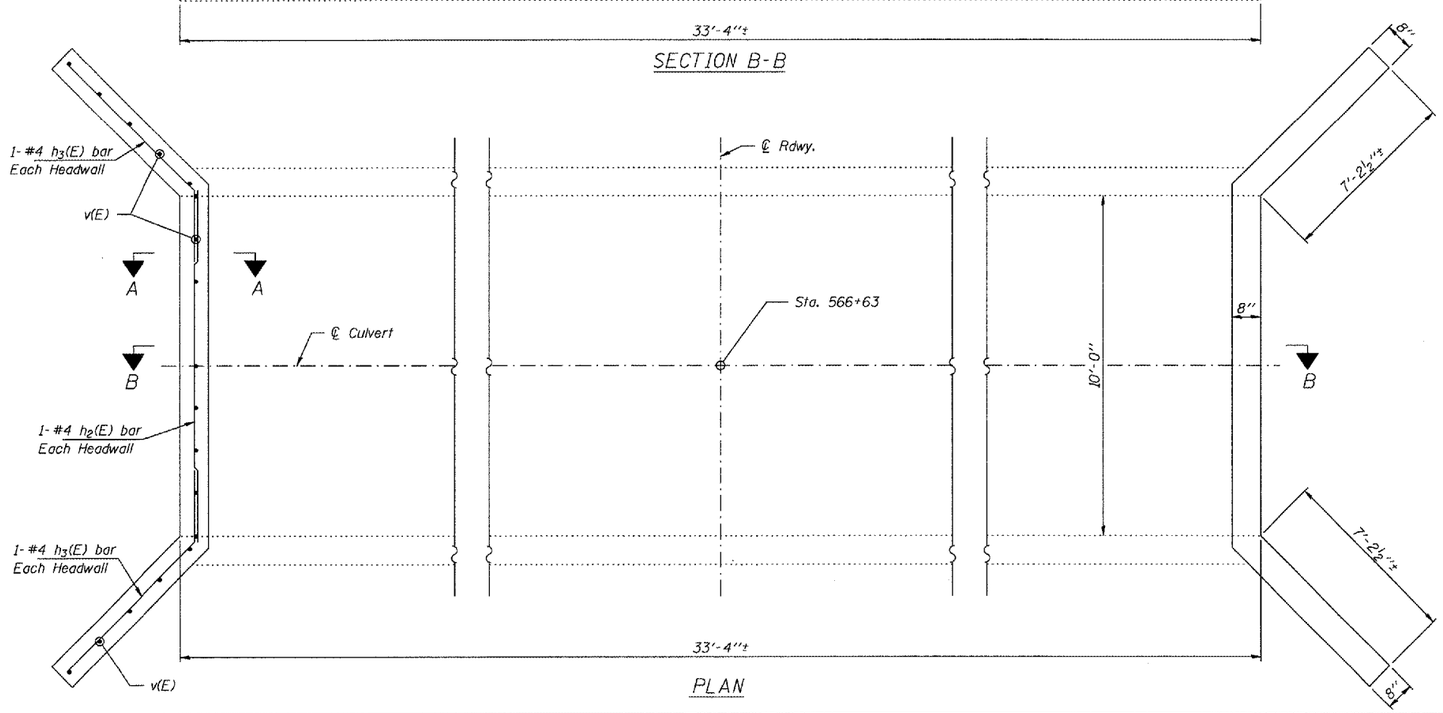
NOT PLOTTED TO SCALE



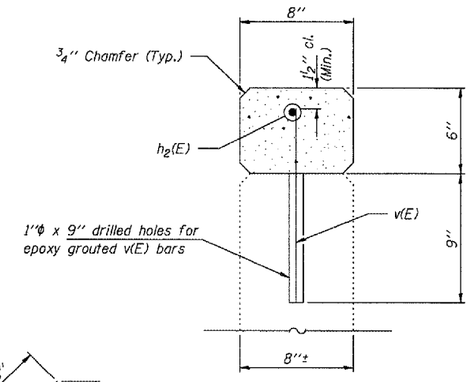
ELEVATION



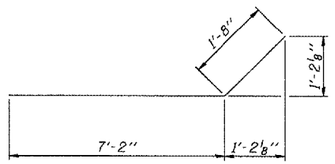
SECTION B-B



PLAN



SECTION A-A



BAR $h_3(E)$*

* $h_3(E)$ bars shall be bent in the field to match the existing wingwall slope.

NOTES

Epoxy Grout v(E) bars in to drilled 1"ϕ x 9" holes in headwall.

The epoxy grout and method of application shall be in accordance with Section 584 of the Standard Specifications and approved by the Engineer.

The cost of drilling and epoxy grouting the v(E) bars shall be included in Reinforcement Bars, Epoxy Coated.

Reinforcement bars shall conform to the requirements AASHTO M-31 or M-322, Grade 60.

All reinforcement bars shall be epoxy coated.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation or a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Guardrail shall be attached in accordance with Standard 630101.

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
$h_2(E)$	2	#4	10'-6"	——
$h_3(E)$	4	#4	8'-10"	——
v(E)	54	#5	1'-1"	——
Concrete Structures			Cu. Yd.	0.7
Reinf. Bars, Epoxy Coated			Pound	100

HLR
Account Number 12-56-0027-1
Date: 06/13/05
Rice, Berry and Associates
A Division of Hampton, Lenzini and Renwick, Inc.
Civil & Structural Engineers
801 S. Durkin Drive
Springfield, Illinois 62704
217-546-3400
P.O. Box 1036
DuQuoin, Illinois 62832
618-790-4637

DESIGNED: S.M.S. | CHECKED: S.W.M. | DRAWN: D.B.

GENERAL PLAN AND ELEVATION

Loc. 2 - Str. # 3792

LIVINGSTON COUNTY

STATION 566+63

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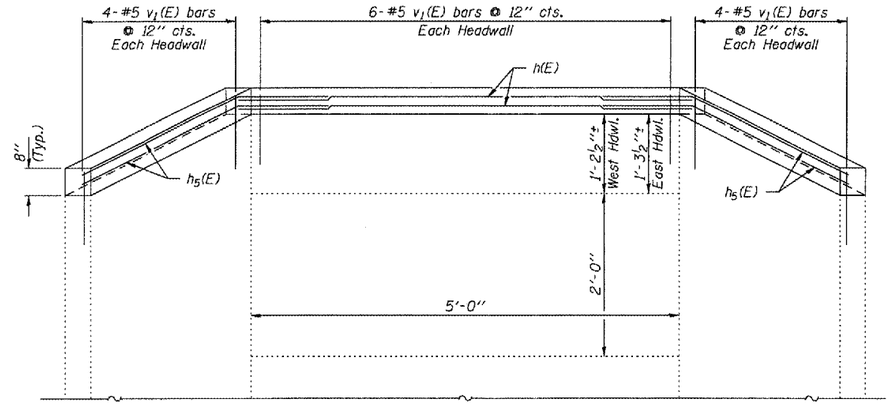
CONTRACT NO. 87313

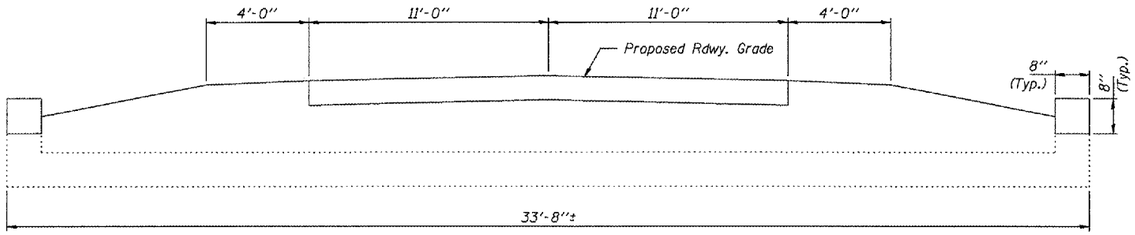
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	01-00025-04-RS	LIVINGSTON	12	5

PROJECT NO. SR-343(108)

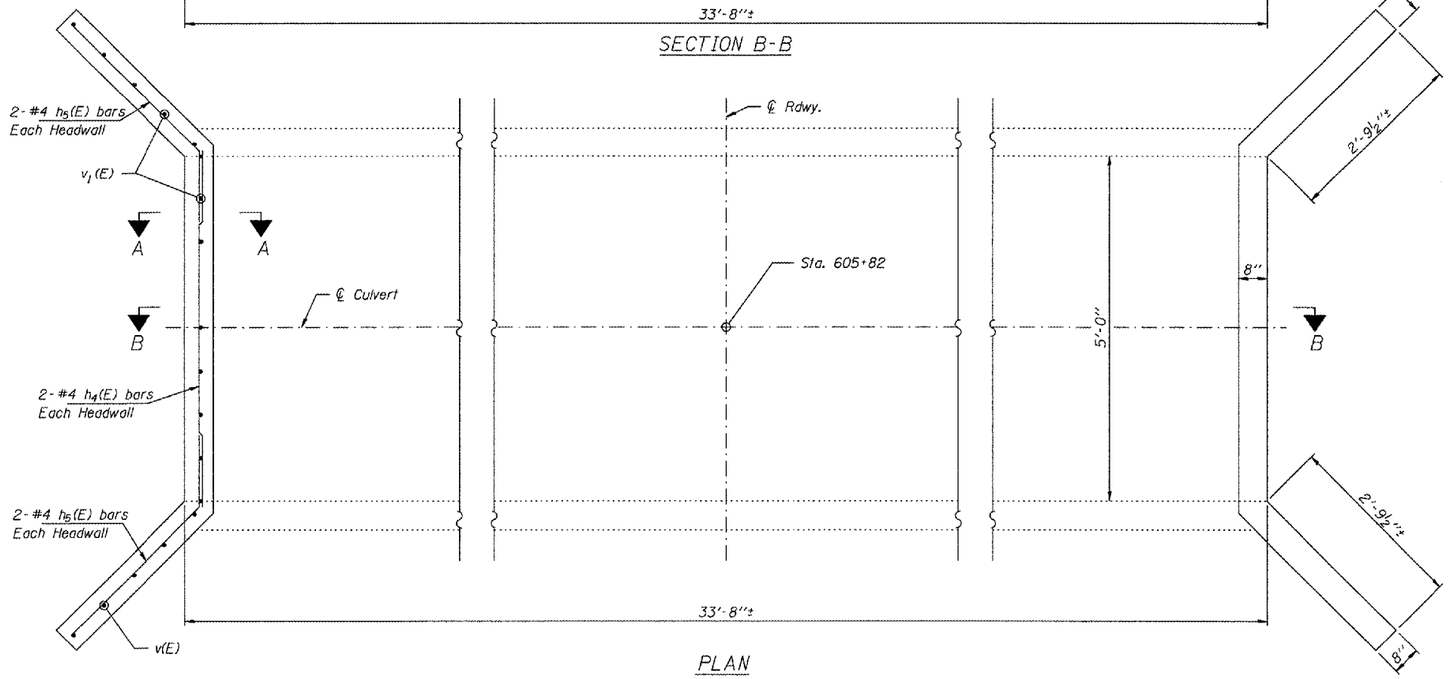
NOT PLOTTED TO SCALE



ELEVATION



SECTION B-B



PLAN

NOTES

Epoxy Grout v_1(E) bars in to drilled 1"ϕ x 9" holes in headwall.

The epoxy grout and method of application shall be in accordance with Section 584 of the Standard Specifications and approved by the Engineer.

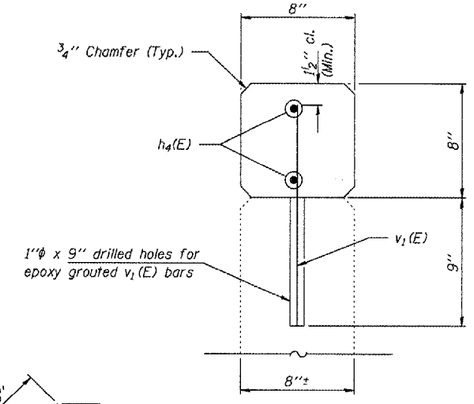
The cost of drilling and epoxy grouting the v_1(E) bars shall be included in Reinforcement Bars, Epoxy Coated.

Reinforcement bars shall conform to the requirements AASHTO M-31 or M-322, Grade 60.

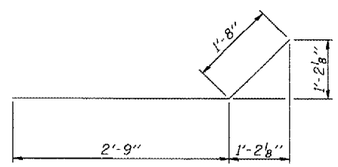
All reinforcement bars shall be epoxy coated.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation or a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Guardrail shall be attached in accordance with Standard 630101.



SECTION A-A



BAR h_5(E)*

* h_5(E) bars shall be bent in the field to match the existing wingwall slope.

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h_4(E)	4	#4	5'-6"	——
h_5(E)	8	#4	4'-5"	——
v_1(E)	28	#5	1'-3"	——
Concrete Structures			Cu. Yd.	0.4
Reinf. Bars, Epoxy Coated			Pound	75

HLR

Rice, Berry and Associates
A Division of Hampton, Lenzini and Renwick, Inc.
Civil & Structural Engineers
801 S. Durkin Drive
Springfield, Illinois 62704
217-546-3400
P.O. Box 1036
DuQuoin, Illinois 62832
618-790-4637

Account Number 12-56-0027-1
Date: 05/16/05

DESIGNED: S.M.S. | CHECKED: S.W.M. | DRAWN: D.B.

GENERAL PLAN AND ELEVATION

Loc. 3 - Str. # 3791

LIVINGSTON COUNTY

STATION 605+82

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CONTRACT NO. 87313

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343 & 1362	01-00025-04-RS	LIVINGSTON	12	6

PROJECT NO. SR-355(119)

BITUMINOUS SURFACE REMOVAL, VARIABLE DEPTH = 85 SQ YD

AGG BASE COURSE, TY A = 125 TON (use to backfill box culv. also)
BITUMINOUS BASE COURSE WIDENING = 125 TON

IL RTE 116 – 1700N

EXIST 40' R.O.W.

BM #2 BRASS PLUG
ELEV =100.66

STA 530+02.4

IMPROVEMENT AND MILLING BEGINS STA 530+15

Exist 3'x2' RC Box

1975 with 6' of 36"ERS CMP

REMOVE 6', 36" ERS CMP EXTENSION AND EXTEND WITH PRECAST CONCRETE BOX CULVERT (PCBC 3'X2')
(SEE SHEET 7 FOR DETAILS)

POWER POLE TO BE RELOCATED BY OTHERS

ELEV. 94.0 BY MEDIACOM LOCATOR

BM #1 LCHD C.P.#99
ELEV = 99.13

END MILLING
STA 530+30

ELEV. 91.4 BY MEDIACOM LOCATOR

MEDIACOM FIBER OPTIC CABLE

STA 530+42.4, 72.0' RT.

530+22.4
42.5' LT

EDGE OF BIT. BSE CSE WIDE, 8" DEPTH
1' OFFSET FROM EDGE OF SHOULDER

PROPOSED DITCH ℄ ELEVATIONS – SHAPE FRONT & BACKSLOPES AT 4:1 (TYP.)

ELEV. 93.5 BY MEDIACOM LOCATOR

POWER POLE TO BE RELOCATED BY OTHERS

530+43.9
20.8' RT

530+54.8
59.4' RT

530+61.6
51.9' LT

530+60.0
11.9' RT

STA 530+42.4, 105.0' LT.

40' R
250' R

PROPOSED R.O.W.

EXTEND WITH PRECAST CONCRETE BOX CULVERT (PCBC 3'X2')
(SEE SHEET 7 FOR DETAILS)

MICHAEL J., PATRICK M., AND DANIEL J. KANE

J. ORIN AND DIANA TAYLOR

531+00
STA 531+15, END INTERSECTION IMPROVEMENT

PROP. 4' BIT. SHLD(typ.)

PROP. 4' AGG. SHLD(typ.)

CH 3 – 3300E

24'

EXIST 66' R.O.W.

STA 531+08, 33.0' LT.

STA 531+51.4, 33' RT.

0 10 20
SCALE (FEET)

EDGE OF PAVED SHOULDER POINTS

POINT NUMBER	C.H. 3 CENTERLINE			
	STATION	OFFSET	ELEVATION	CL ELEV
1	530+19	94.8 LT	100.20	100.45
2	530+20	88.6 LT	100.20	100.42
3	530+25	50.4 LT	100.05	100.35
4	530+30	34.6 LT	99.85	100.37
5	530+40	23.0 LT	100.05	100.40
6	530+50	17.8 LT	100.17	100.44
7	530+75	16.0 LT	100.15	100.39
8	531+00	16.0 LT	100.11	100.35
9	531+15	16.0 LT	100.09	100.33
10	530+18	59.4 RT	100.40	100.42
11	530+20	50.0 RT	100.15	100.42
12	530+25	39.1 RT	100.00	100.35
13	530+30	33.2 RT	99.85	100.37
14	530+40	26.5 RT	100.00	100.40
15	530+50	23.4 RT	100.10	100.44
16	530+75	18.4 RT	100.16	100.39
17	531+00	16.1 RT	100.17	100.35
18	531+15	16.0 RT	100.18	100.33

QUANTITIES(AVERAGE)

EARTH EXCAVATION = 250 CU YD (includes proposed ditch & widening)
BIT SURF REM, VAR DEPTH = 85 SQ YD
AGG BASE COURSE, TY A = 125 TON
BITUMINOUS BSE CSE WIDE = 125 TON
BINDER COURSE = 25 TON
SURFACE COURSE = 46 TON
BITUMINOUS MATERIALS (MC-30) = 98.0 GALLON

FOR BOX CULVERT EXTENSION QTYS., SEE NEXT SHEET

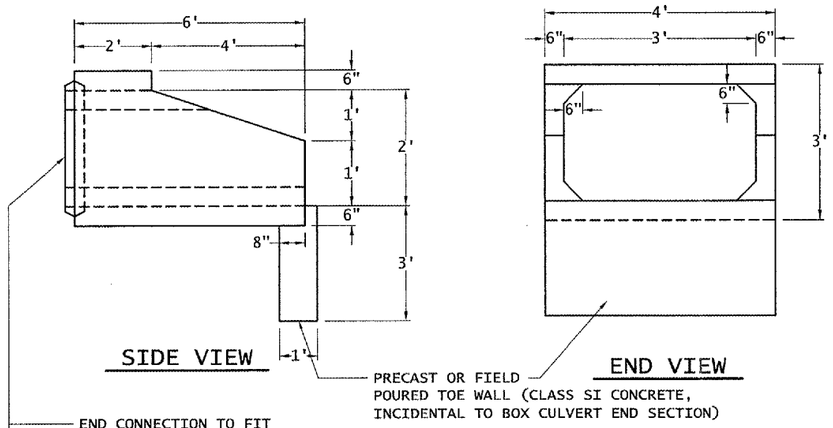
SEEDING IN RELOCATED DITCH AREA TO BE DONE BY COUNTY FORCES WITHIN 7 DAYS OF EARTHWORK OPERATION

CONTRACT NO. 87313

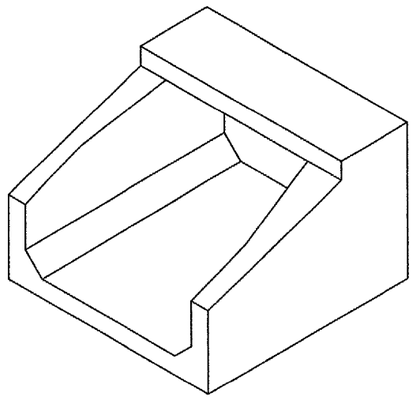
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343 & 1362	01-00025-04-RS	LIVINGSTON	12	7

PROJECT NO. SR-343(108)

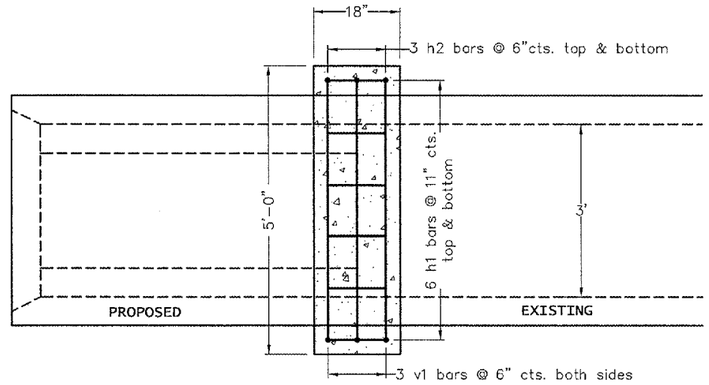
NOT PLOTTED TO SCALE



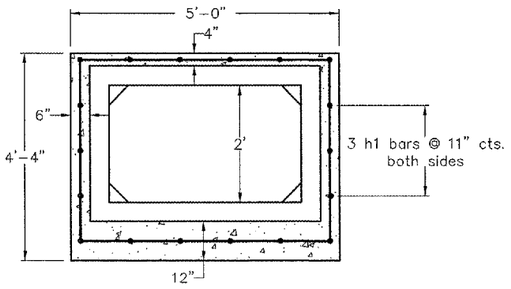
PLAN VIEW



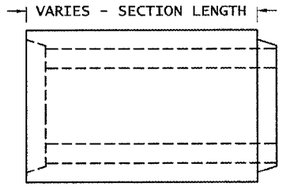
ISOMETRIC VIEW



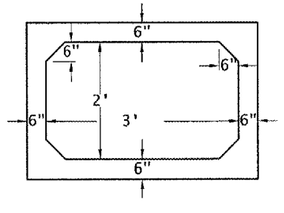
CONCRETE COLLAR DETAIL - PLAN VIEW



CONCRETE COLLAR DETAIL - END VIEW



ELEVATION



TYPICAL BOX SECTION END VIEW

CONCRETE COLLAR QTYS. - INCIDENTAL TO CONCRETE COLLARS

BAR	SIZE	LENGTH	NO.	SHAPE
h1	#5	1'-0"	18x2	-----
h2	#5	4'-6"	6x2	-----
v1	#5	3'-8"	6x2	-----

CONCRETE QTY. PER COLLAR = 0.5 C.Y. x 2 COLLARS

BOX EXTENSION WEST OF CH 3

- PCBC 3X2 = 48.0 FOOT
- BOX CULVERT END SECTIONS = 1.0 EACH
- CONCRETE COLLAR = 1.0 EACH

BOX EXTENSION EAST OF CH 3

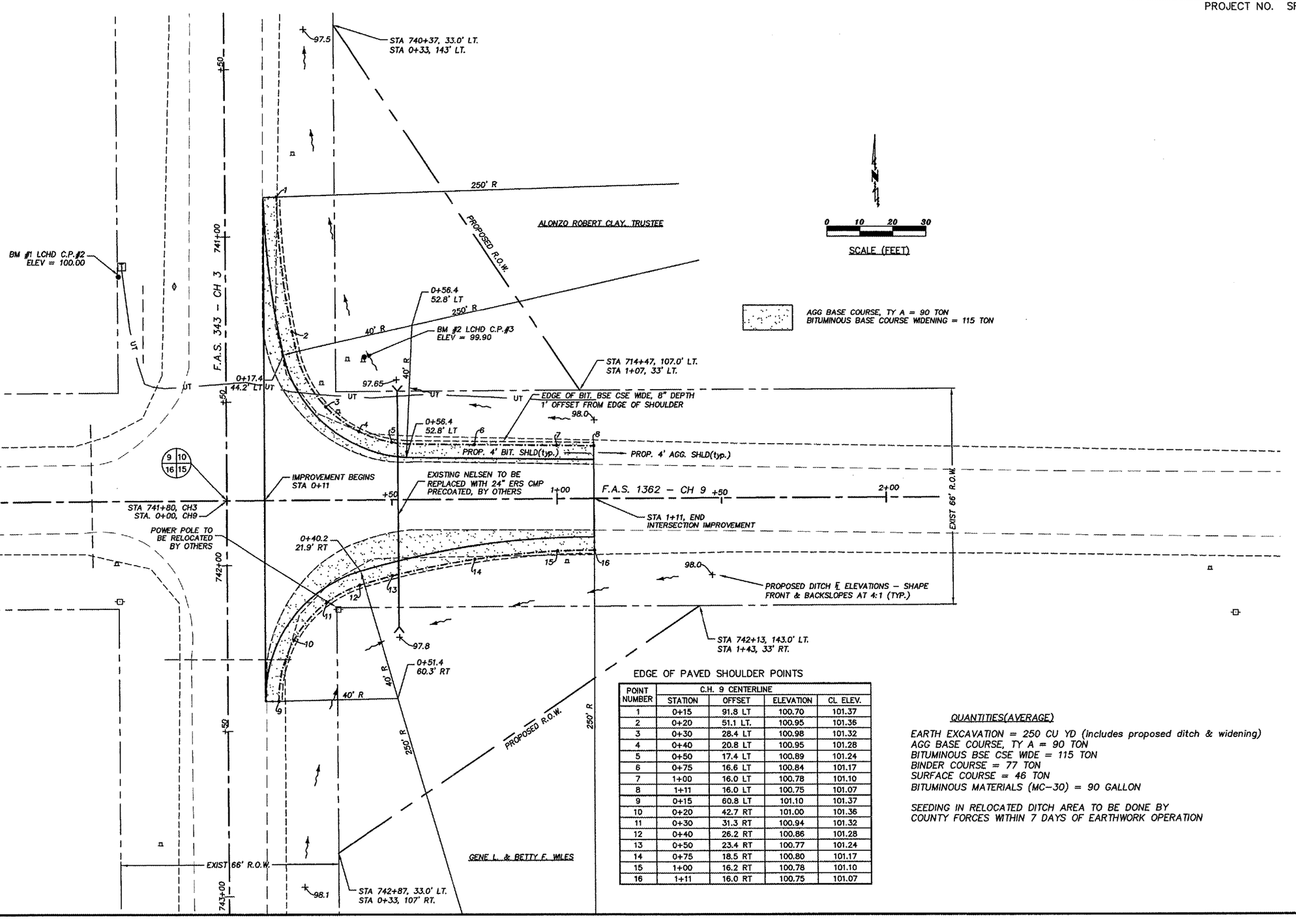
- PIPE CULVERT REMOVAL = 6.0 FOOT
- PCBC 3X2 = 24.0 FOOT
- BOX CULVERT END SECTIONS = 1.0 EACH
- CONCRETE COLLAR = 1.0 EACH

STA 530+23 TO 530+79 - BOX CULVERT 3'x2' EXTENSION QUANTITIES

CONTRACT NO. 87313

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343 & 1362	01-00025-04-RS	LIVINGSTON	12	8

PROJECT NO. SR-355(119)



EDGE OF PAVED SHOULDER POINTS

POINT NUMBER	C.H. 9 CENTERLINE			
	STATION	OFFSET	ELEVATION	CL. ELEV.
1	0+15	91.8 LT	100.70	101.37
2	0+20	51.1 LT.	100.95	101.36
3	0+30	28.4 LT	100.98	101.32
4	0+40	20.8 LT	100.95	101.28
5	0+50	17.4 LT	100.89	101.24
6	0+75	16.6 LT	100.84	101.17
7	1+00	16.0 LT	100.78	101.10
8	1+11	16.0 LT	100.75	101.07
9	0+15	60.8 LT	101.10	101.37
10	0+20	42.7 RT	101.00	101.36
11	0+30	31.3 RT	100.94	101.32
12	0+40	26.2 RT	100.86	101.28
13	0+50	23.4 RT	100.77	101.24
14	0+75	18.5 RT	100.80	101.17
15	1+00	16.2 RT	100.78	101.10
16	1+11	16.0 RT	100.75	101.07

QUANTITIES(AVERAGE)

EARTH EXCAVATION = 250 CU YD (includes proposed ditch & widening)
AGG BASE COURSE, TY A = 90 TON
BITUMINOUS BSE CSE WIDE = 115 TON
BINDER COURSE = 77 TON
SURFACE COURSE = 46 TON
BITUMINOUS MATERIALS (MC-30) = 90 GALLON

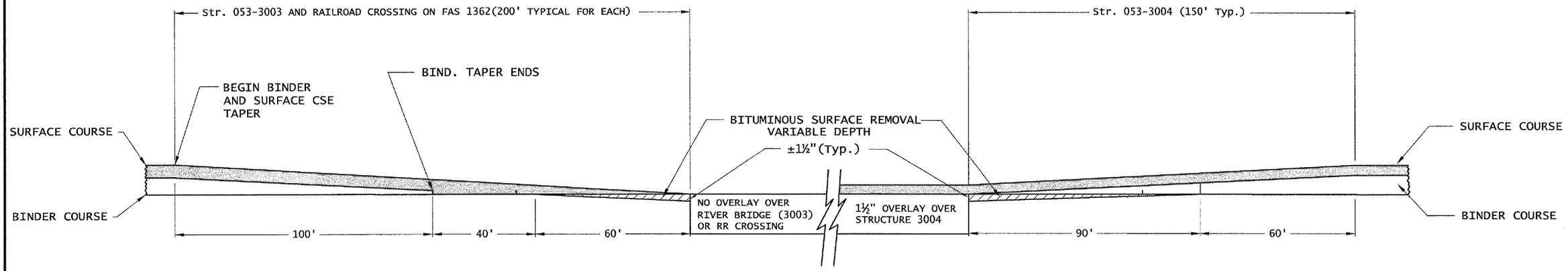
SEEDING IN RELOCATED DITCH AREA TO BE DONE BY
COUNTY FORCES WITHIN 7 DAYS OF EARTHWORK OPERATION

CONTRACT NO. 87313

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343 & 1362	01-00025-04-RS	LIVINGSTON	12	9

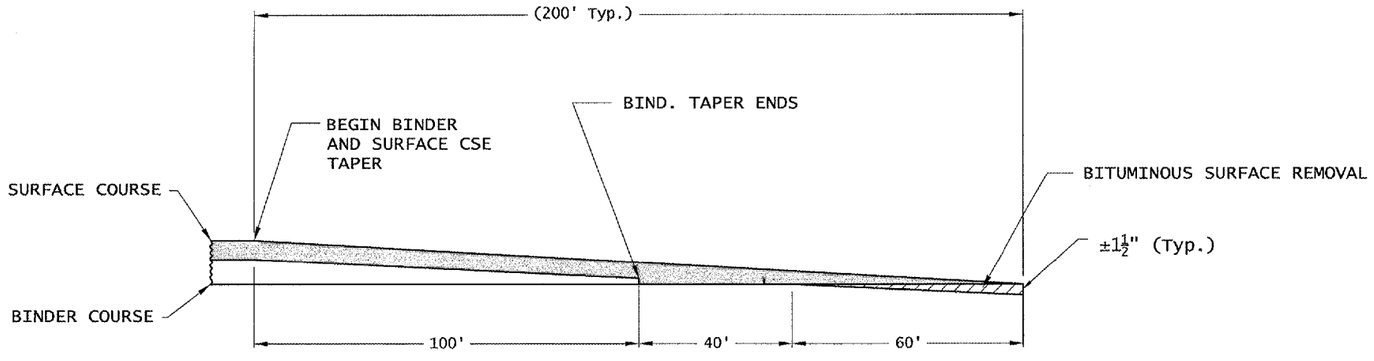
PROJECT NO. SR-343(108)

NOT PLOTTED TO SCALE



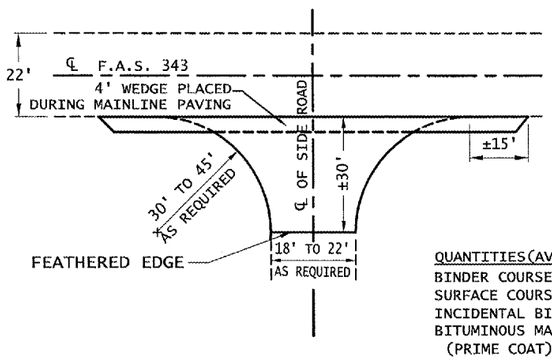
TRANSITION DETAIL AT BRIDGES AND RAILROAD CROSSING (NTS)

(NO TAPERS AT STRUCTURES 053-5010 & 5008 - FULL OVERLAY)



ENDING TAPER (NTS)

Sta. 980+27.5 TO 982+27.5(FAS RTE. 343)
Sta. 33+30 TO 35+30(FAS RTE. 1362)



QUANTITIES(AVERAGE)
BINDER COURSE = 7 TON
SURFACE COURSE = 4 TON
INCIDENTAL BITUMINOUS = 15.0 TON
BITUMINOUS MATERIALS = 9.0 GALLON
(PRIME COAT)

TYPICAL SIDE ROAD INTERSECTION (NTS)

STA. 583+04 LT. + RT.(1600N)
STA. 662+50 LT.(1450N)
STA. 741+80 LT.(1300N,CH9)
STA. 847+75 LT.
STA. 953+40 LT. + RT.(900N)
STA. 636+13 RT. (1500N)
STA. 688+50 LT. + RT.(1400N)
STA. 794+78 LT. + RT.(1200N)
STA. 900+62 LT. + RT.(1000N)

CONTRACT NO. 87313

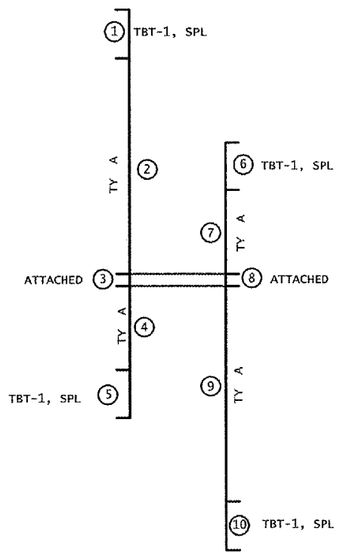
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
355 & 1362	01-00025-04-RS	LIVINGSTON	12	10

PROJECT NO. SR-343(108)

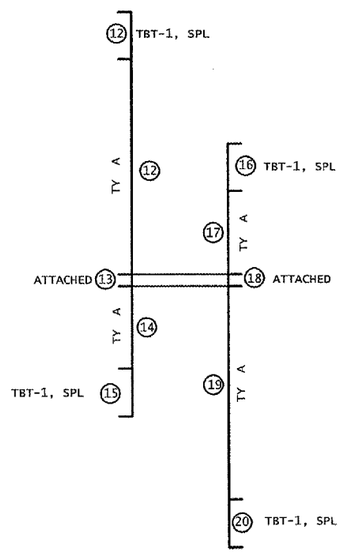
GUARDRAIL SCHEDULE

		LOCATION		SPBGR ATTACH TO STRUCTURE (FOOT)	GUARDRAIL REMOV (FOOT)	SPBGR TYPE A (FOOT)	SPBGR TYPE B (FOOT)	TBT, TY 1 (SPECIAL)	TBT TY 10 (EACH)	TERMINAL MARKER DA (EACH)	BIDIR GUARD RAIL REFLECT (EACH)
3793	1	TBT-1, SPL	RT					1		1	1
	2	TY A	RT			125.0					1
	3	Attached to Str.	RT	12.5	100.0						1
	4	TY A	RT			50.0					1
	5	TBT-1, SPL	RT					1		1	1
	6	TBT-1, SPL	LT					1		1	1
	7	TY A	LT			50.0					1
	8	Attached to Str.	LT	12.5	100.0						1
	9	TY A	LT			125.0					1
	10	TBT-1, SPL	LT					1		1	1
3792	11	TBT-1, SPL	RT					1		1	1
	12	TY A	RT			125.0					1
	13	Attached to Str.	RT	12.5	100.0						1
	14	TY A	RT			50.0					1
	15	TBT-1, SPL	RT					1		1	1
	16	TBT-1, SPL	LT					1		1	1
	17	TY A	LT			50.0					1
	18	Attached to Str.	LT	12.5	100.0						1
	19	TY A	LT			125.0					1
	20	TBT-1, SPL	LT					1		1	1
3791	21	TBT-1, SPL	RT					1		1	1
	22	TY A	RT			125.0					1
	23	Attached to Str.	RT	12.5	100.0						1
	24	TY A	RT			50.0					1
	25	TBT-1, SPL	RT					1		1	1
	26	TBT-1, SPL	LT					1		1	1
	27	TY A	LT			50.0					1
	28	Attached to Str.	LT	12.5	100.0						1
	29	TY A	LT			312.5					5
	30	TBT-1, SPL	LT					1		1	1
F.E.	31	TBT-1, SPL	LT					1		1	1
	32	TY A	LT		200.0	75.0					1
	33	TBT-1, SPL	LT					1		1	1
053-3004	34	TBT-1, SPL	RT					1		1	1
	35	TY A	RT		75.0	100.0					3
	36	TY B	RT				25				1
	37	TBT TY 10	RT						1		
	38	TBT TY 10	RT						1		
	39	TY B	RT				25				1
	40	TY A	RT		300.0	312.5					5
	41	TBT-1, SPL	RT					1		1	1
	42	TBT-1, SPL	LT					1		1	1
	43	TY A	LT		75.0	25.0					3
	44	TY B	LT				25				1
	45	TBT TY 10	LT						1		
	46	TBT TY 10	LT						1		
	47	TY B	LT				25				1
	48	TY A	LT		75.0	100.0					3
	49	TBT-1, SPL	LT					1		1	1
		TOTAL QUANTITIES		75.0	1325.0	1850.0	100.0	18.0	4.0	18.0	59.0

3793
8'x3' RC BOX
Sta. 548+60

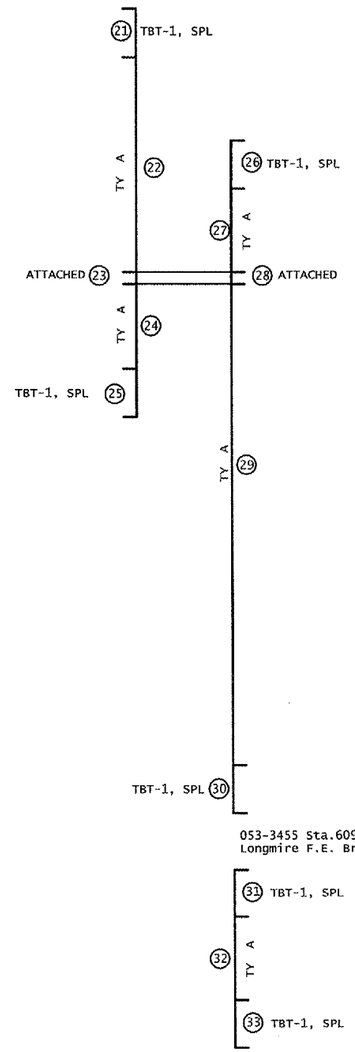


3792
10'x5' RC BOX
Sta. 566+63



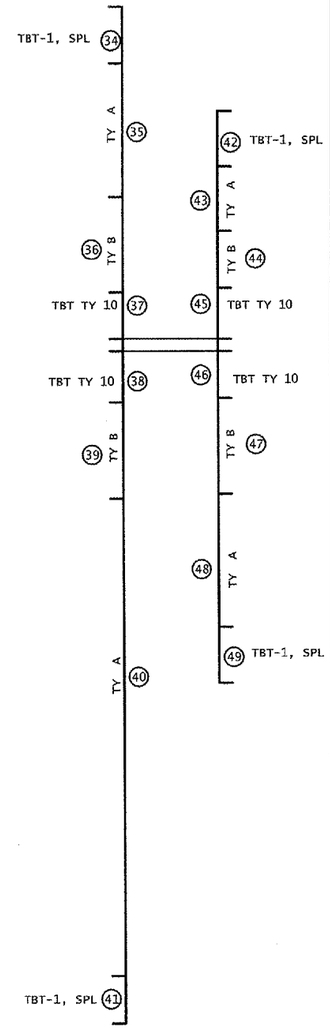
NOT PLOTTED TO SCALE

3791
5'X2' RC BOX
Sta. 605+82



053-3455 Sta.609+70
Longmire F.E. Bridge

053-3004
BRIDGE-29'
Sta. 566+63



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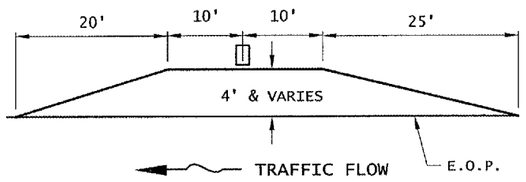
CONTRACT NO. 87313

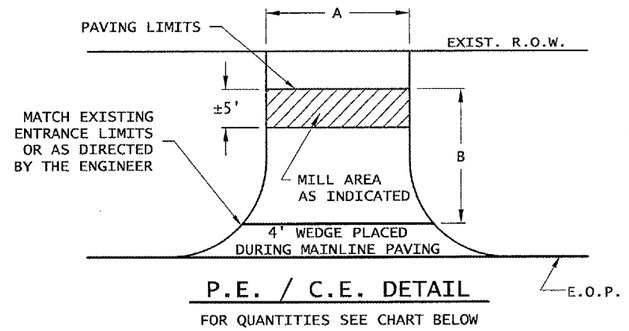
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343 & 1362	01-00025-04-RS	LIVINGSTON	12	11

PROJECT NO. SR-343(108)

NOT PLOTTED TO SCALE



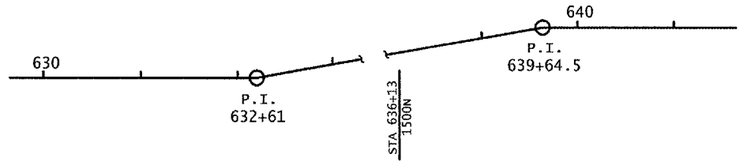
MAILBOX TURNOUT DETAIL (PLACED DURING MAINLINE PAVING)



P.E. / C.E. DETAIL

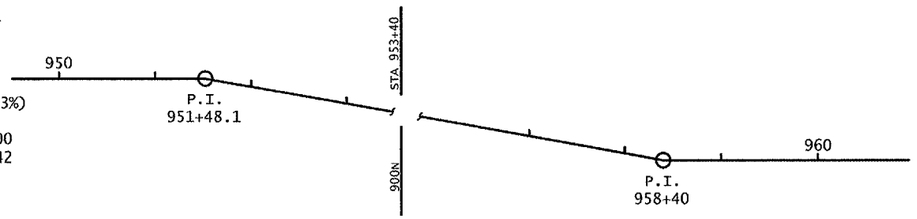
FOR QUANTITIES SEE CHART BELOW

CURVE 1 (NORTH)
Δ = 0°04'56"
R = 5729.65'
T = 246.83'
L = 493.33'
e = 3.0% (Exist = 2.6%)
S.E. RUN = 88'
P.C. = 630+14.17
P.T. = 635+07.50



CURVE 2 (SOUTH)
Δ = 0°04'46"
R = 5729.65'
T = 238.47'
L = 476.67'
e = 3.0% (Exist = 2.1%)
S.E. RUN = 88'
P.C. = 637+26.03
P.T. = 642+02.70

CURVE 3 (NORTH)
Δ = 8°00'00"
R = 3,997.48'
T = 279.54'
L = 558.14'
e = 3.0% (Exist = 3%)
S.E. RUN = 88'
P.C. Sta 955+26.00
P.T. Sta 961+00.42



CURVE 4 (SOUTH)
Δ = 8°14'00"
R = 3,997.48'
T = 287.70'
L = 574.42'
e = 3.0% (Exist = 3%)
S.E. RUN = 88'
P.C. Sta 955+26.00
P.T. Sta 961+00.42

CHATSWORTH RD. / CH 3 - ENTRANCE QUANTITIES

TYPE	STATION	A(Ft.)	B(Ft.)	AREA (S.Y.)	MILLING (S.Y.)	BIT. MAT. PRIME(MC-30)	BIT. MAT. PRIME(RC-70)	BINDER COURSE	SURFACE COURSE	INCID. BIT.
MBTO	609+70(R)	50	7	27		10		4	3	
PE	609+80(R)	18	14	28		10		2	1	5
MBTO	632+61(R)	60	4	18		6		3	1	
PE	632+93(L)	18	14	28		10		2	1	5
PE	634+39(R)	18	14	28		10		2	1	5
MBTO	642+82(R)	70	4	20		7		3	1	
PE	643+49(L)	18	14	28		10		2	1	5
MBTO & PE	650+94(R)	65	14	28		10		4	1	5
PE	694+58(R)	18	14	28		10		2	1	5
PE	712+02(L)	18	14	28		10		2	1	5
MBTO	712+14(R)	70	4	20		7		3	1	
MBTO	718+79(R)	65	4	19		7		3	1	
PE	718+79(R)	18	14	28		10		2	1	5
PE	720+81(R)	18	14	28		10		2	1	5
MBTO & PE	787+84(R)	65	14	28		10		4	1	5
MBTO	800+07(R)	65	4	19		7		3	1	
PE	800+59(L)	18	14	28		10		2	1	5
CE	801+47(L)	25	14	39		14		2	1	7
MBTO	843+42(R)	65	4	19		7		3	1	
PE	843+60(L)	18	14	28		10		2	1	5
CE	844+34(L)	25	14	39		14		2	1	7
MBTO & PE	864+43(R)	65	14	28		10		4	1	5
CE	871+66(L)	25	14	39		14		2	1	7
MBTO	872+71(R)	65	4	19		7		3	1	
PE	872+74(L)	18	14	28		10		2	1	5
PE	901+21(L)	18	14	28	10	10		2	1	5
PE	902+96(L)	18	14	28		10		2	1	5
CE	925+49(R)	25	14	39		14		2	1	7
PE	926+11(L)	18	14	28		10		2	1	5
CE	963+06(R)	210	4	93		33		14	1	16
MBTO	964+72(R)	75	4	21		7		3	1	
PE	964+72(R)	18	14	28		10		2	1	5

CHATSWORTH RD. / CH 3 - ENTRANCE QUANTITIES(CONT.)

TYPE	STATION	A(Ft.)	B(Ft.)	AREA (S.Y.)	MILLING (S.Y.)	BIT. MAT. PRIME(MC-30)	BIT. MAT. PRIME(RC-70)	BINDER COURSE	SURFACE COURSE	INCID. BIT.
PE	964+72(R)	18	14	28		10		2	1	5
CE	964+89(R)	25	14	39		14		2	1	7
MBTO & PE	965+91(R)	65	14	28		10		4	1	5
PE	967+70(L)	35	14	54		19		3	1	10
PE	971+61(L)	18	14	28		10		2	1	5
MBTO	974+06(R)	70	4	20		7		3	1	
PE	978+38(R)	18	14	28		10		2	1	5
CE	979+40(L)	60	14	42		15		4	1	8
PE	980+34(R)	18	14	28		10		2	1	5
MBTO	980+88(R)	45	4	14		5		3	1	

CHARLOTTE RD. / CH 9 - ENTRANCE QUANTITIES

MBTO	13+44(R)	60	4	18		6		3	1	
PE	13+44(R)	18	14	28	10		1	2	1	5
PE	13+82(L)	18	14	28		10		2	1	5
PE	14+86(R)	18	14	28	10		1	2	1	5
PE	15+93(L)	35	14	54		19		3	1	10
MBTO	16+65(R)	60	4	18		6		3	1	
CE	16+65(R)	25	14	39		14		2	1	7
CE	17+66(L)	25	15	42		15		2	1	8
CE	17+72(R)	25	16	44		15		2	1	8
CE	23+23(R)	93	4	41		14		6	3	
CE	25+91(R)	60	4	27		9		4	2	
CE	25+91(L)	60	4	27		9		4	2	
CE	27+87(L)	105	20	233	58		12	7	4	39
CE	28+18(R)	343	4	152		53		21	13	
CE	28+95(L)	112	4	50		18		7	4	
MBTO	30+66(R)	60	4	18		6		3	1	
PE	30+66(R)	74	14	115		40		5	1	20
PE	31+49(L)	18	14	28	10		1	2	1	5
MBTO	32+23(R)	60	4	18		6		3	1	
PE	32+23(R)	18	14	28		10		2	1	5
PE	33+22(R)	18	14	28		10		2	1	5
PE	34+82(R)	18	14	28		10		2	1	5
TOTAL FOR BOTH SECTIONS					98	714	15	208	88	311

CONTRACT NO. 87313

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343 & 1362	01-00025-04-RS	LIVINGSTON	12	12

PROJECT NO. SR-343(108)

SCHEDULE OF RESURFACING QUANTITIES

Unit weight Constant = 112.0 lbs./s.y./inch

LOCATION (QUANTITY)				LENGTH	AREA (SQ YD)	BIT SURF REMOVAL VAR DEPTH (SQ YD)	SHORT-TERM PAVT MARKING (FOOT)	WORK ZONE PAVT MK REM (SQ FT)	EARTH EXCAVATION (CU YD)	AGG BSE CSE TYPE A (TON)	BITUMINOUS BSE CSE WIDENING (TON)	BIT MATLS PR CT RC-70 (GALLON)	BIT MATLS PR CT MC-30 (GALLON)	AGG PR CT (TON)	BINDER CSE SUPER, IL-19.0 N50 (TON)	BIT CONC SC, SUPER "C" N50 (TON)	INCIDENTAL BIT SURF (TON)	PAINT PVT MARKING LINE, 4" (FOOT)	AGG SHLDS TYPE B (TON)
MAINLINE							*(2 Apps.)*	*(1 App.)*							(crown corr. = 22.4)				
530+15	to	531+15	Truck Intersection	100	550	85	20	3	250	125	125	28	98	1	25	46	-		-
531+15	to	680+68		14,953	36,552	-	2,990	498	-	-	-	1,828	-	73	6,141	3,070	-		3,028
680+68	to	682+68	(TAPER)	200	489	147	40	7	-	-	-	24	-	-	21	41	-		20
682+68	to	685+21	(053-3003)	253	618	-	-	-	-	-	-	-	-	-	-	-	-		-
685+21	to	687+21	(TAPER)	200	489	147	40	7	-	-	-	24	-	-	21	41	-		20
687+21	to	816+21		12,900	31,533	-	2,580	430	-	-	-	1,577	-	63	5,298	2,649	-		2,612
816+21	to	817+71	(TAPER)	150	367	220	30	5	-	-	-	18	-	-	13	31	-		15
817+71	to	818+00	(053-3004)	29	71	-	-	-	-	-	-	4	-	-	-	6	-		-
818+00	to	819+50	(TAPER)	150	367	220	30	5	-	-	-	18	-	-	13	31	-		15
819+50	to	980+28		16,078	39,301	-	3,216	536	-	-	-	1,965	-	79	6,603	3,301	-		3,255
980+28	to	982+28	(TAPER)	200	489	147	40	7	-	-	-	24	-	-	21	41	-		20
0+11	to	1+11	Truck Intersection	100	550	-	20	3	250	90	115	28	98	1	77	46	-		-
1+11	to	24+40		2,329	5,693	-	466	78	-	-	-	285	-	11	956	478	-		472
24+40		26+40	(TAPER)	200	489	147	40	7	-	-	-	24	-	-	21	41	-		-
26+40	to	26+60	RR Crossing	20	49	-	-	-	-	-	-	-	-	-	-	-	-		-
26+60		28+60	(TAPER)	200	489	147	40	7	-	-	-	24	-	-	21	41	-		-
26+60	to	33+30	Thru Charlotte	670	1,638	-	134	22	-	-	-	82	-	3	275	138	-		-
33+30	to	35+30	(TAPER)	200	489	147	40	7	-	-	-	24	-	-	21	41	-		20
TOTAL JOB LENGTH OR MAINLINE QUANTITY				48,932	120,223	1,407	9,726	1,622	500	215	240	5,977	196	231	19,523	10,042	0	0	9,477
MISCELLANEOUS																			
P.E.'s, C.E.'s, and M.B.T.O.'s				-	-	98.0	-	-	-	-	-	15	714	-	208	88	311.0	-	-
SIDEROAD INTERSECTIONS (14)				-	-	-	-	-	-	-	-	126.0	-	-	98	56	210.0	-	-
TOTALS OF MAINLINE & MISC.				**48,932**	**120,223**	**1,505**	**9,726**	**1,622**	**500**	**215**	**240**	**6,118**	**910**	**231**	**19,829**	**10,186**	**521**	**18,877**	**9,477**

SEE SHEET 2 FOR SCHEDULE

Z:\COWork\ROAD Projects\00025RS4-ChatsRd-North\Planning\Plans\[EstCost-ResurfSched-ChatsworthRd.xls]SchedResurfQtys