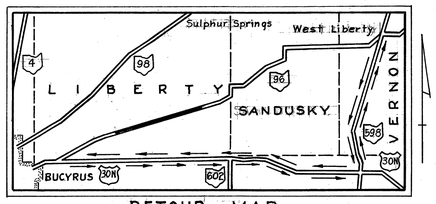
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

CRAWFORD COUNTY
CRA-96-1.34 CRA-39-4.03

1/20

JAN2 1964
GROUND PHOTOLAB

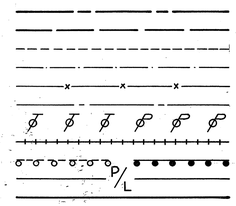
STATE OF OHIO
DEPARTMENT OF HIGHWAYS
CRA-96-(2.49)(2.84)(3.37)(3.59)(3.80)(3.90)(4.12)(4.38)(4.59)
CRA-39-4.18
CRAWFORD COUNTY
LIBERTY AND VERNON TOWNSHIPS
STRUCTURE IMPROVEMENTS-CULVERT REPLACEMENTS AND EXTENSION



DETOUR MAP

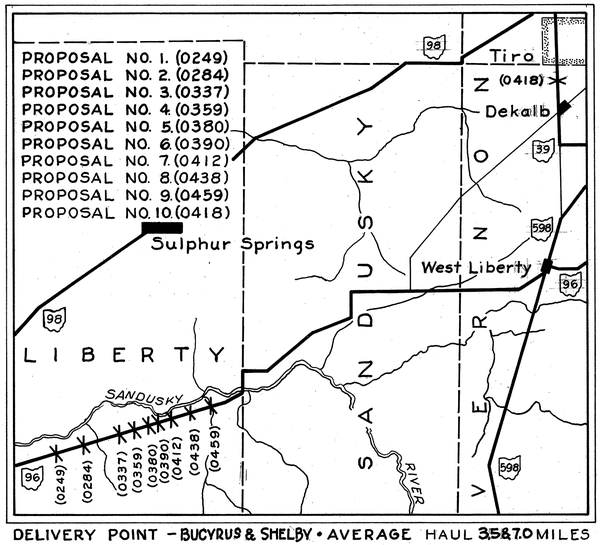
CONVENTIONAL SIGNS

COUNTY LINE
TOWNSHIP LINE
SECTION LINE
CORPORATION LINE
FENCE LINE
CENTER LINE
POLE LINE (TELEPHONE & POWER)
RAILROAD
GUARD RAIL (EXISTING & PROPOSED)
PROPERTY LINE
RIGHT OF WAY



INDEX OF SHEETS

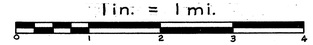
APPROVED E. A. Stitzer
DATE 1-30-62 CRAWFORD COUNTY ENGINEER



DELIVERY POINT - BUCYRUS & SHELBY • AVERAGE HAUL 35&7.0 MILES

LOCATION MAP

Scale of Miles
1 in. = 1 mi.



PORTION TO BE IMPROVED —X—
STATE HIGHWAYS
OTHER ROADS

The Standard Specifications of the State of Ohio, Department of Highways, including changes and supplemental specifications listed in the proposals shall govern these improvements. These Standard Specifications are dated January 1, 1961.

The right of way for these improvements will be provided by the State of Ohio.

I hereby approve these plans and declare that the making of this improvement will require the closing of the highway to traffic and that detours will be provided as indicated on the plans.

Approved E. A. Stitzer
Date 1-30-62 Division Deputy Director

CDB Approved D. H. Wareman
Date 4-19-62 Engineer of Bridges

Approved J. W. Keppel
Date 4-17-62 Engineer of Maintenance

Approved T. Hoge Samhouse
Date 4-17-62 Deputy Director, Division of Operations

Approved Guy E. Hosser
Date 4-27-62 Deputy Director of Planning and Programming

Approved Wm J. Shoer
Date 4/24/62 Deputy Director of Right of Way

Approved G. D. Berry
Date 4-27-62 First Assistant Director

Approved E. A. Preston
Date 4-27-62 Director of Highways

SCALES

PLAN	1" = 20'
PROFILE HORIZONTAL	1" = 20'
PROFILE VERTICAL	1" = 5'
CROSS SECTIONS	1" = 5'
OTHER SHEETS AS SHOWN	

FILE Nº	CRAWFORD COUNTY, CRA-96-1.34 CRA-39-4.03
138-C	DATE OF LETTING
	CONTRACT Nº

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS							
G-7.07	6-1-56	L-3	4-1-50				
I-15 No. 2A	8-17-60	L-3-A	4-1-50				
SP-53	6-30-61	T-35	1-2-56				
I-1	11-15-60	I-15 No. 1	11-15-60				
CS-1-54	7-16-56						
SB-1-47	1-20-48						
L-1	4-1-50						

SUPPLEMENTAL SPECIFICATIONS			

JAN2 1964
GROUND PHOTOLAB

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

2
20

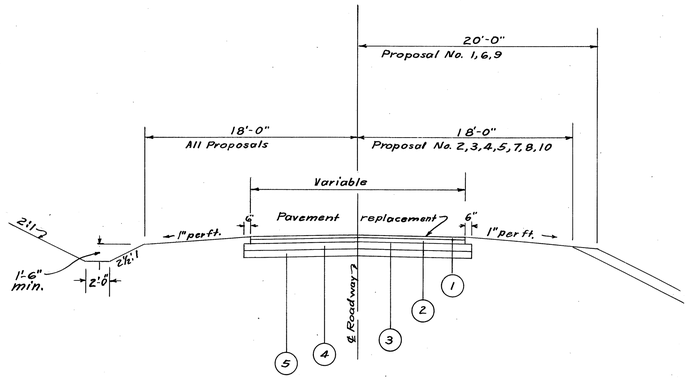
Crawford County
CRA96 Sec. CRA96 - 1.34
CRA39 Sec. CRA39 - 4.03

SUMMARY OF QUANTITIES

Item	Description	Unit	CRA96-0249 Proposal No.1	CRA96-0284 Proposal No.2	CRA96-0337 Proposal No.3	CRA96-0359 Proposal No.4	CRA96-0380 Proposal No.5	CRA96-0390 Proposal No.6	CRA96-04 12 Proposal No. 7	CRA96-04 38 Proposal No. 8	CRA96-04 59 Proposal No.9	CRA39-04 18 Proposal No.10
E--1	Roadway Excavation Method "A"	Cu.yd.	659	23	65	350	29	167	232	316	415	108
E-1	Embankment Method "A"	Cu.yd.	1208	98	49	~~54~~	129	425	72	96	229	182
E-2	Excavation for structures	Cu.yd.									81	
E-2	Cofferdams cribs and sheeting										Lump sum	
E-3	Channel excavation	Cu.yd.	214	9	12	3	49	16	5	3	195	22
E-8	Removal of existing wearing course	Sq.yd.									40	
E-9	Removal of trees and stumps	each	5					1			1	
E-12	12" pipe removed and stored	Lin.ft.		28		24						
E-12	18" pipe removed and stored	Lin.ft.								27.7		
E-12	24" pipe removed and stored	Lin.ft.										10
E-12	24" pipe removed	Lin.ft.										34
E-12	36" pipe removed and stored	Lin.ft.			33.5		4	16				
E-12	72" pipe removed and stored	Lin.ft.										36.35
B-19	Aggregate base course	Cu. yd.	11.9	2.9	4.1	3.8		9.2		4.5		7.4
B-35	Asphaltic concrete leveling course, (85-100)	Cu. yd.	3.7	0.9	1.3	1.2		2.9		1.4		2.3
T-30	Bituminous prime coat, Sec. M-5.7, RT-2 or RT-3	Gal.	25	6	9	8		20		10		15
T-35	Asphaltic concrete surface course, Type "C", (85-100)	Cu.yd.	2.7	0.7	0.9	0.9		2.1		1.0		1.7
S-1	Concrete for structures, superstructure Class "C"	Cu.yd.									19.3	
S-1	Concrete for structures, walls, Class "E"	Cu.yd.									40.5	
S-1	Concrete for structures, footings, Class "E"	Cu.yd.									30.6	
S-3	Type "B" waterproofing 36" wide	Sq.yd									11	
S-4	Reinforcing steel	Lbs.									5315	
S-9	¼" preformed expansion joint filler (bit type)	Sq.ft.									11	
S-14	Railing, steel beam standard type (deep) steel posts and hardware including galvanized	Lin.ft.									36.34	
S-22	Removal of portions of existing structure					Lump sum	Lump sum		Lump sum		Lump sum	Lump Sum
S-23	Dowel holes	Lin.ft.									16	
S-24	Removal of existing structure		Lump sum									
Spec.	pull and store existing steel sheet piling	Lin.ft.	218									
S-29	Porous backfill	Cu. yd.									37	
I-1	12" pipe ~~for driveways~~, Class F-1, Sec. M-6.4(a)	Lin.ft.								48		
I-1	24" pipe ~~for Pipe culverts~~, Class A-1,	Lin.ft.		52								
I-1	21" pipe ~~for Pipe culverts~~, Class A-1, Sec. M-6.6 (b)	Lin.ft.							30			
I-1	24" Corr. metal pipe ~~for roadway drainage~~ Class H-2, Sec M-6.4(c)	Lin.ft.										36
I-5	24" Corr. metal pipe specials, 30° bends, Class H-2 Sec. M-6.4 (c)	Each										2
I-1	36" pipe ~~for Pipe culverts~~, Class A-1,	Lin.ft.						100				
I-1	42" pipe ~~for Pipe culverts~~, Class A-1, Sec. M-6.6 (b)	Lin.ft.					38					
I-1	15'-10"X9'-10" Sec. corr. metal pipe arch structure, Sec. M-6.4 (g) Class G-1	Lin.ft.	74									
I-1	58" X 36" bit. coated, paved corr. metal pipe arch with integral base, Sec. M-6.4 (c)(d), Class G-1	Lin.ft.			56							
I-1	43" X 27" bit. coated, paved invert corr. metal pipe arch with integral base, Sec. M-6.4 (c)(d), Class G-1	Lin.ft.								58		
I-1	7'3"X5'-3" Sec. corr. metal pipe arch structure, Sec. M-6.4 (g) Class G-1	Lin.ft.										58
I-2	Masonry, Concrete for endwalls, Class "E"	Cu. yd.	18.4		3.7	3.1	3.5	3.0		3.1		6.9
I-10	Dumped rock channel protection	Cu. yd.	117					74		29	32	25
I-10	12" Crushed aggregate slope protection	Sq. yd.		5					6			
I-15	Guard rail removed and stored	Lin.ft.	328.2									
I-15	Guard rail, steel beam Standard type (deep)	Lin.ft.	437.5					250			88.66	
I-22	Subbase	Cu. yd.	11.9	2.9	4.1	3.8		9.2		4.8		7.8
L-7	15" Riprap for tree protection	Sq. yd.	9.5									
L-8	Cl Aggregate for tree ~~root~~ aeration	Cu. yd.	10									
L-9	Seeding and protecting as per plan	Sq. yd.	5278	918	945	1406	1168	1580	996	1335	1940	1702
L-9	Commercial fertilizer (12-12-12)	Ton	0.48	0.084	0.086	0.13	0.107	0.14	0.091	0.12	0.18	0.16
I-1	30" pipe ~~for pipe culverts~~ Class A-1	Lin.ft.				52						
			20	13	13	12	9	16	9	11	21	1

List of Proposals

Prop. No.	County	State Route	Section No.	Structure No.	Sheet No.
1	Crawford	96	CRA96-0134	CRA96-0249	3-4
2	"	96	" "	CRA96-0284	5
3	"	96	" "	CRA96-0337	6
4	"	96	" "	CRA96-0359	7
5	"	96	" "	CRA96-0380	8
6	"	96	" "	CRA96-0390	9
7	"	96	" "	CRA96-04.12	10
8	"	96	" "	CRA96-0438	11
9	"	96	" "	CRA96-04.59	12,-13, 14
10	"	39	CRA39-04.03	CRA39-0418	15



1. 1½" T-35 Asph. conc. surface, course, Type "C", (85-100)
2. 1¾" B-35 Asph. conc. leveling course, (85-100)
3. T-30 0.3 gal. per sq.yd. Bituminous prime coat, RT-2 or RT-3
4. 5" B-19 Aggregate base course
5. 5" I-22 Subbase

GENERAL NOTES

UTILITY ADJUSTMENT: Any and all work required for public or private utilities will be done by and at the expense of their respective owners unless otherwise noted on these plans.

SPECIFICATIONS: Construction and Materials Specifications of the State of Ohio, Department of Highways, Dated January 1, 1961 shall apply to these proposals.

ITEM L-9 Seeding and protecting roadway areas.
Quantities for seeding are calculated for the areas between lines 10' outside the work limits as shown on the plans and cross sections or the right of way line if such line is less than 10' from the work limits. All areas outside these limits where the vegetative cover has been disturbed or destroyed during the construction shall be restored and seeded in conformance with the provisions of Item L-9 by the contractor at his own expense.

The following seed mixture shall be applied at the rate of 3 lbs. per 1000 sq.ft.

Creeping red fesque	70%
Kentucky blue grass	25%
Alsike clover	5%

All replacement pavement widths to remain the same as existing widths.

Materials to be disposed of shall be disposed of outside the right of way.
Materials to be removed and stored shall be placed within the right of way and accessible to State Forces.

UTILITIES

S.R. 96 All Proposals

Ohio Central Telephone Co.
Toledo, Ohio.
Ohio Power Co.
Canton, Ohio

SR 39 Proposal No. 10

Lima Telephone Service
Shelby, Ohio - Local Maintenance
Ohio Power Co.
Canton, Ohio.

MAINTENANCE OF TRAFFIC: At least one way traffic shall be maintained at all times on all proposals except proposal No. 1 and proposal No. 6. The use of the detour shall be confined to the period of time required for the construction of structures - CRA96-0249 and CRA96-0390.

ITEM SPECIAL, PULL AND STORE EXISTING STEEL SHEET PILING: This item shall consist of removing existing interlocking steel sheet piling, where called for on these plans, by a method acceptable to the Engineer. The sheet piling shall be carefully removed, cleaned, and stored on the right-of-way at the disposal of the States forces.

The footage to be paid for shall be the actual number of linear feet of each interlocking section of sheet piling removed and stored.

The footage measured as provided above shall be paid for at the contract unit price per linear foot bid for Item Special, Pull And Store Existing Steel Sheet Piling, which price and payment shall constitute full compensation for removing, cleaning, and storing and for all labor, equipment, tools and incidentals necessary to complete this item.

Crawford County
CRA 96 - 0249 Sec. CRA 96 - 1.34
Proposal No. 1

E-9 Tree Removal

Station	Size	kind	
130+23	12"	2 - 12" stumps	25' Lt.
130+55	18"	Ash	37' Lt.
130+59.3	14"	Ash	27' Lt.
131+36.4	20"	Walnut	21.5' Lt.
131+61.9	20"	Ash	14' Lt.

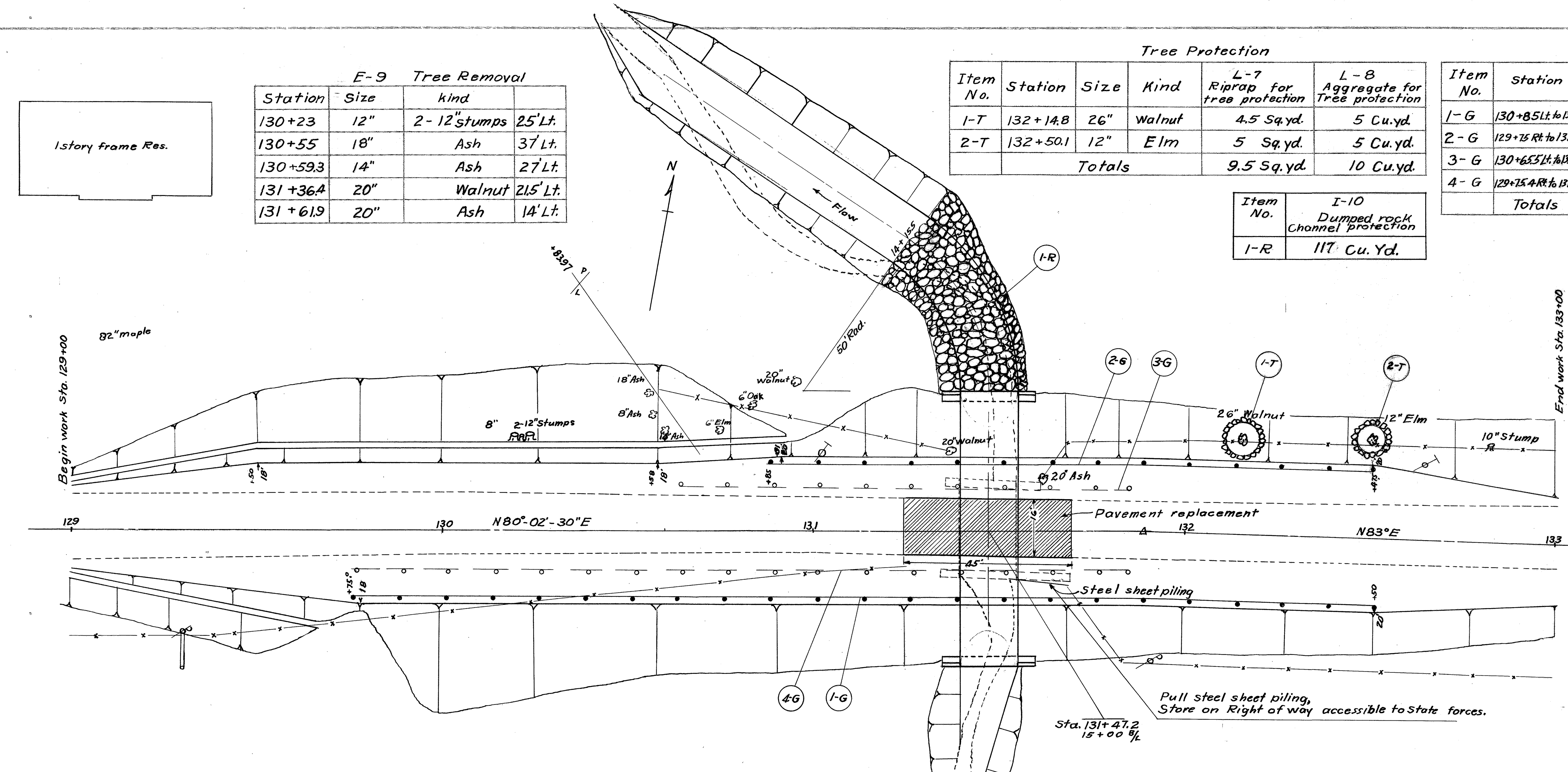
Tree Protection

Item No.	Station	Size	Kind	L-7 Riprap for tree protection	L-8 Aggregate for Tree protection
1-T	132+14.8	26"	Walnut	4.5 Sq. yd.	5 Cu. yd.
2-T	132+50.1	12"	Elm	5 Sq. yd.	5 Cu. yd.
	Totals			9.5 Sq. yd.	10 Cu. yd.

Item No.	I-10 Dumped rock Channel protection
1-R	117 Cu. Yd.

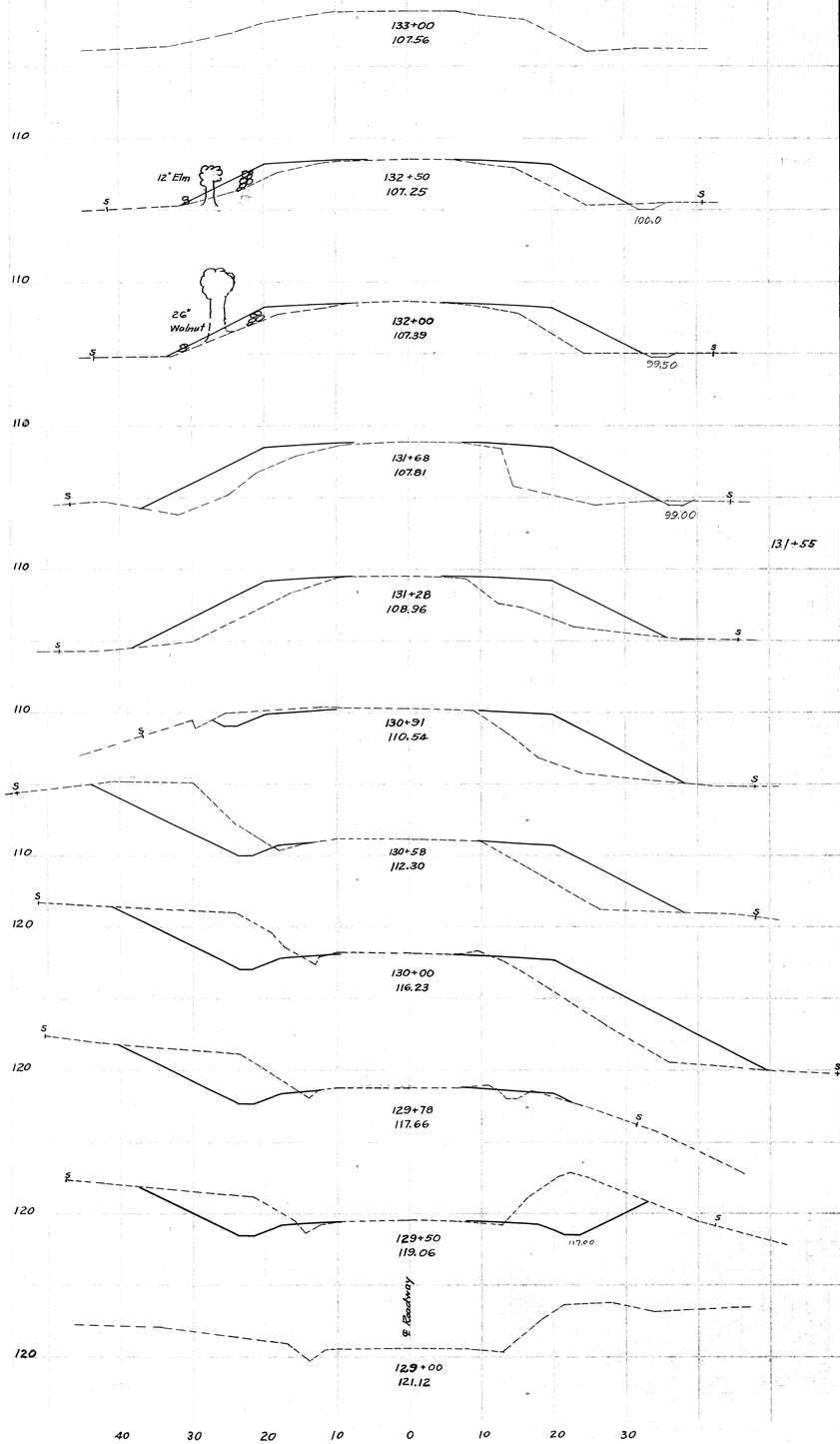
I-15 Guard Rail

Item No.	Station	Guard rail Removed and stored	Guard Rail Steel beam Type (Deep)
1-G	130+85 Lt. to 132+47.5 Lt.		162.5 lin. ft.
2-G	129+75 Rt. to 132+50 Rt.		275.0 lin. ft.
3-G	130+65.5 Lt. to 131+84.5 Lt.	119 lin. ft.	
4-G	129+75.4 Rt. to 131+84.6 Rt.	209.2 lin. ft.	
	Totals	328.2 lin. ft.	437.5 lin. ft.



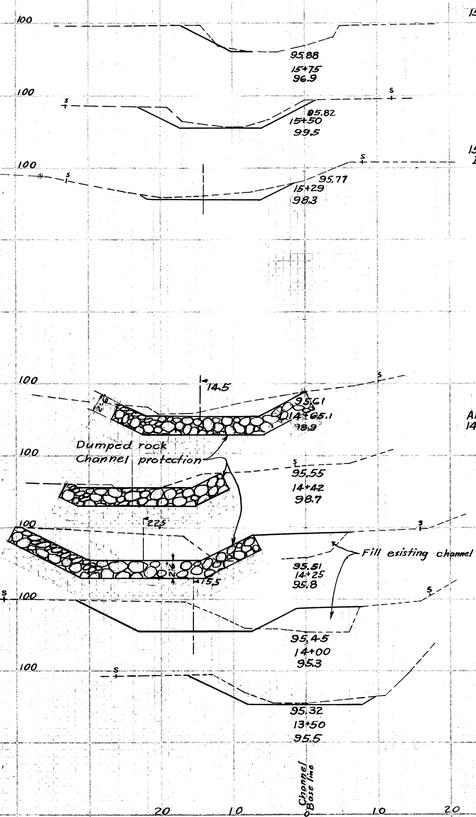
B.M. Spike in 16" walnut 110' Lt.
Sta. 132+10.5 Assumed elev. 100.00

Crawford County
CRA 96 - 0249 Sec. CRA 96 - 1.34
Proposal No. 1



E-1 Roadway

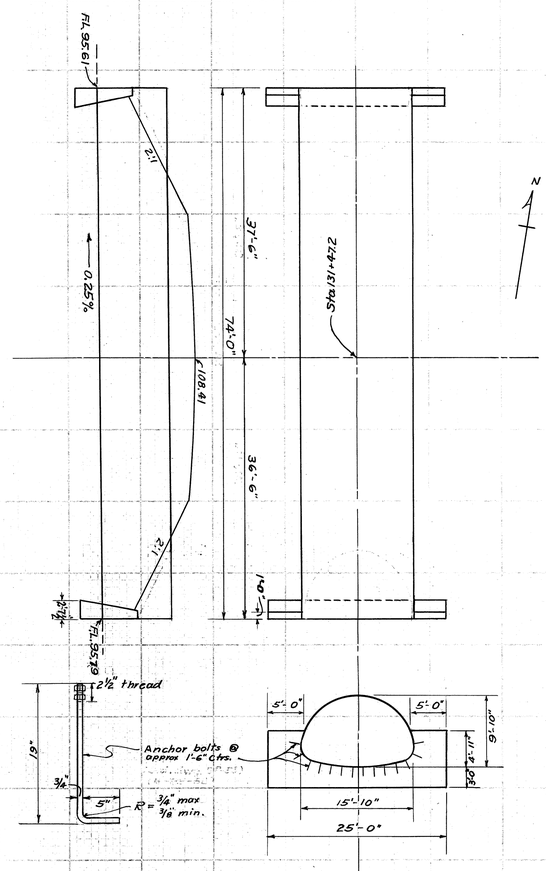
END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
0	0		
		3	60
4	65		
		6	126
2	71		
		2	139
2	163		
		1	233
131+55 0			
0	152		
		0	188
0	122		
		61	136
100	101		
		220	259
105	140		
		80	59
91			
		133	5
165	3		
		153	3
0	0		
Totals		65.9	12.08



E-3 Channel

	E.A	C.Y.
15+99.6	0	2
	5	
		10
	17	
		7
15+36.5 Back	12	
	0	
Ahead 14+62.5	0	
	24	
		12
	8	
		28
	80	
		67
	65	
		79
	20	
		9
13+25	0	

Total E-3 214 Cu.yd.



Plates for sectional pipe arch shall be No. 3 gauge for bottom and corner plates and No. 5 gauge for all other plates.

Estimated Quantities

E-1	Roadway excavation, Method "A"	659 Cu. Yd.
E-1	Embankment, Method "A"	1208 Cu. Yd.
E-3	Channel excavation	214 Cu. Yd.
E-9	Removal of trees and stumps	5 Each
B-19	5" Aggregate base course	11.9 Cu. Yd.
B-35	1¾ Asphaltic concrete leveling course, (85-100)	3.7 Cu. Yd.
T-30	Bituminous prime coat, RT-2 or RT-3, sec. M-5.1	25 Gal.
T-35	1½ Asphaltic concrete surface course, Type "C", (85-100)	2.7 Cu. Yd.
S-24	Removal of existing Structure	Lump Sum
Spec.	Pull and store steel sheet piling	218 Lin. Ft.
I-1	15'-10" X 9'-10" Sectional corrugated metal pipe arch structure, Sec. M-64(g), Class G-1,	74 Lin. Ft.
I-2	Masonry, concrete for endwalls, Class "E"	18.4 Cu. Yd.
I-10	12" Dumped rock channel protection	117 Cu. Yd.
I-15	Guard rail, Standard Steel beam type (Deep)	437.5 Lin. Ft.
I-15	Guard rail, removed and stored	328.2 Lin. Ft.
I-22	5" Subbase	11.9 Cu. Yd.
L-7	15" Riprap for tree protection	9.5 Sq. Yd.
L-8	6" Aggregate for tree protection	10 Cu. Yd.
L-9	Seeding and protecting, as per plan	5278 Sq. Yd.
L-9	Commercial fertilizer (12-12-12)	0.48 Ton

Proposed Structure
Type - Sectional Corrugated Pipe Arch Culvert
Size - 15'-10" X 9'-10" X 74'-0"
Roadway - 40', 36' between guard rail
Skew - 0°
Gage - 5-3

Existing Bridge Data
Type - Stone arch
Size
Skew - None
Loading
Condition - Poor, Narrow
Drainage area 2595 Acres
Q_{25} = 900 cfs.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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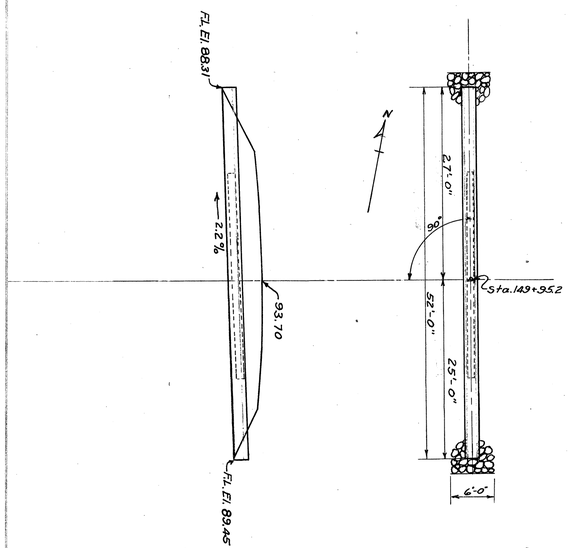
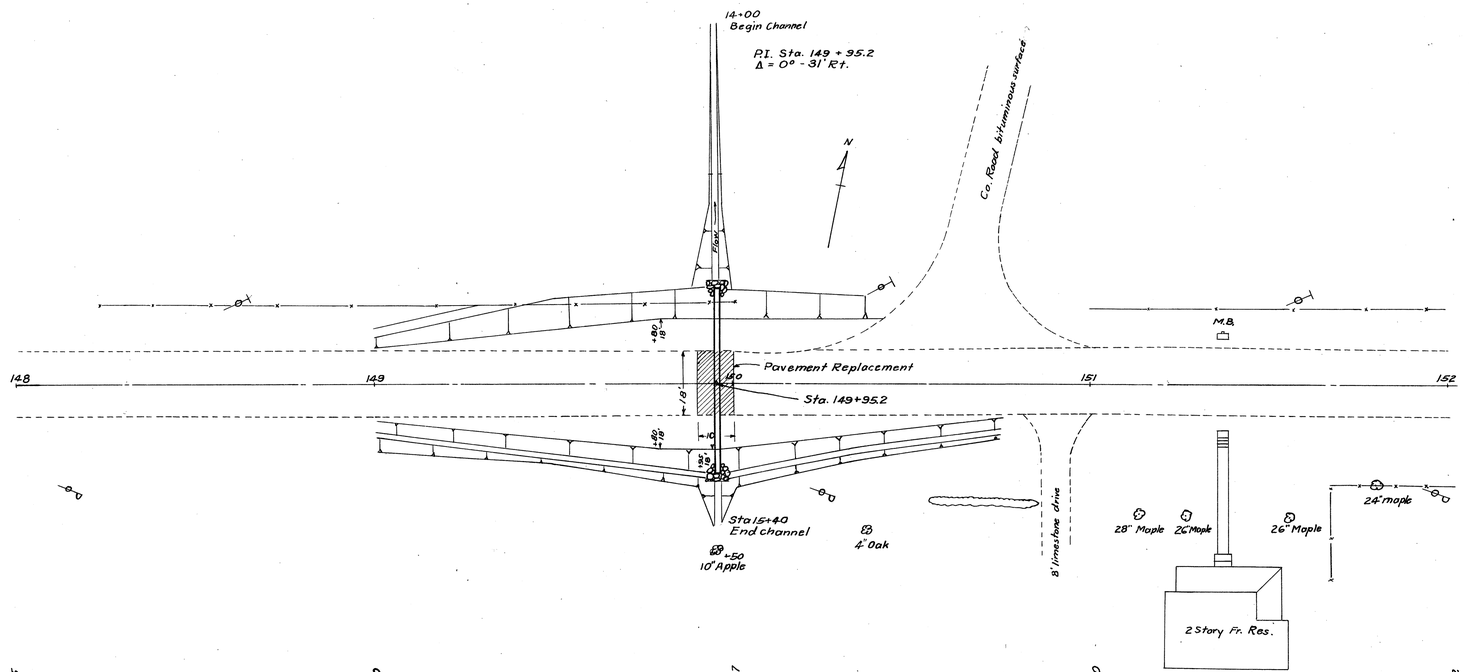
Crawford County
CRA96 - 0284 Sec. CRA96 - 1.34
Proposal No. 2

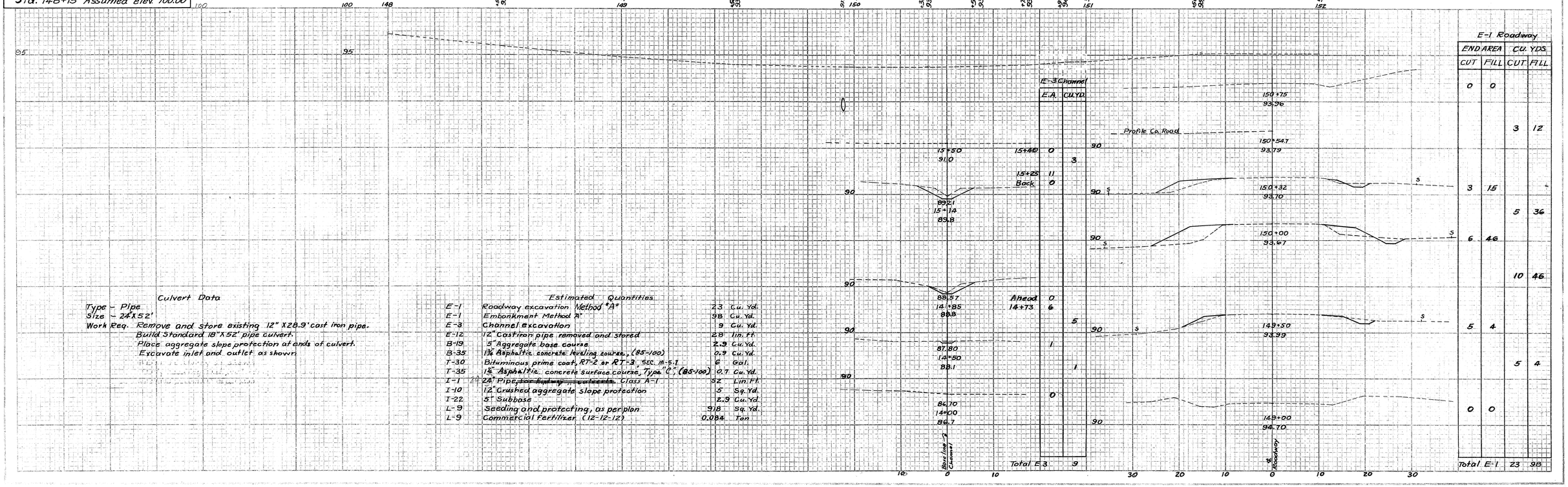




Existing Structure	
Type	Cast iron pipe
Size	12"
Skew	0°

Proposed Structure	
Type -	Standard pipe culvert
Size -	24"X52'
Skew -	0°
Drainage area	26 acres
Q_{10} =	132 cfs.

B.M. Spike in power pole 30' Rt.
Sta. 148+15 Assumed elev. 100.00



E-1 Roadway

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
0	0		
		3	12
3	15		
		5	36
6	46		
		10	46
5	4		
		5	4
0	0		
Total E-1		23	98

Culvert Data

Type - Pipe
Size - 24"X52'
Work Req. Remove and store existing 12" X28.9' cast iron pipe.
Build Standard 18"X52' pipe culvert.
Place aggregate slope protection at ends of culvert.
Excavate inlet and outlet as shown.

Estimated Quantities

E-1	Roadway excavation Method "A"	23	Cu. Yd.
E-1	Embankment Method "A"	98	Cu. Yd.
E-3	Channel excavation	9	Cu. Yd.
E-12	12" Castiron pipe removed and stored	28	Lin. Ft.
B-19	5" Aggregate base course	2.3	Cu. Yd.
B-35	1½ Asphaltic concrete leveling course, (85-100)	0.9	Cu. Yd.
T-30	Bituminous prime coat, RT-2 or RT-3 Sec. M-5.1	6	Gal.
T-35	1½ Asphaltic concrete surface course, Type "C", (85-100)	0.7	Cu. Yd.
I-1	24" Pipe ~~for highway culverts~~ Class A-1	52	Lin. Ft.
I-10	12" Crushed aggregate slope protection	5	Sq. Yd.
I-22	5" Subbase	2.9	Cu. Yd.
L-9	Seeding and protecting, as per plan	918	Sq. Yd.
L-9	Commercial Fertilizer (12-12-12)	0.084	Ton

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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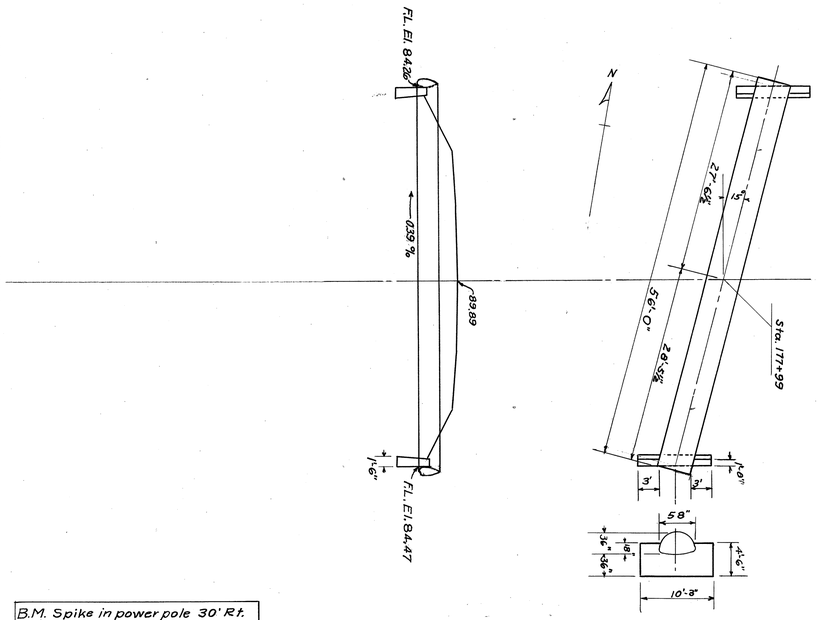
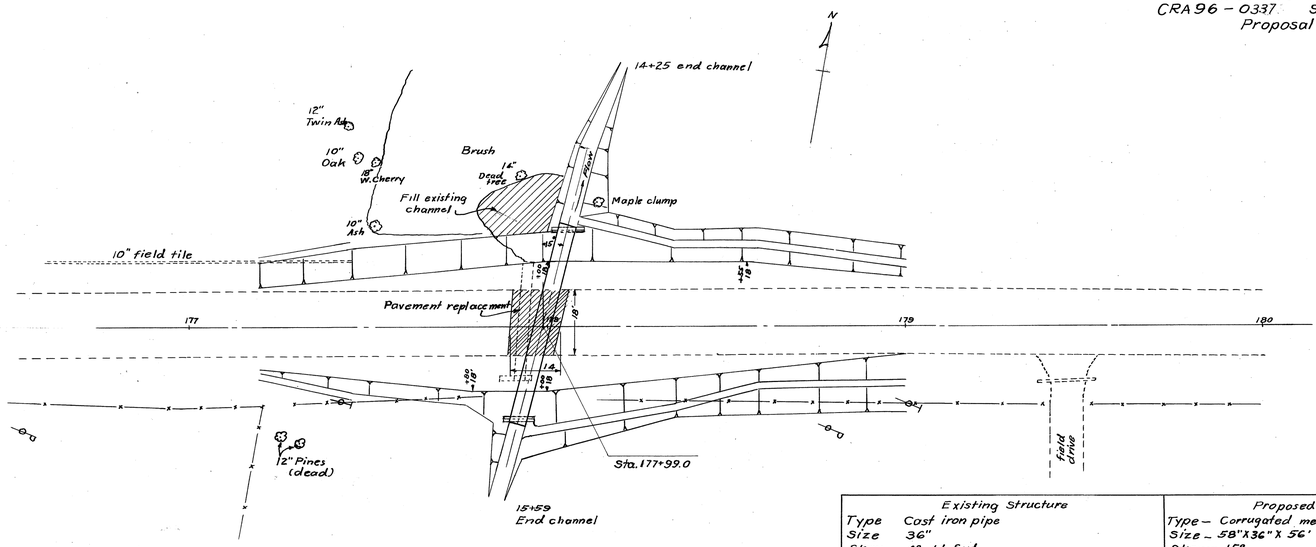
Crawford County
CRA 96 - 0337 Sec. CRA 96 - 134
Proposal No. 3



B.M. Spike in power pole 30' Rt.
Sta. 174+25 Assumed elev. 100.00

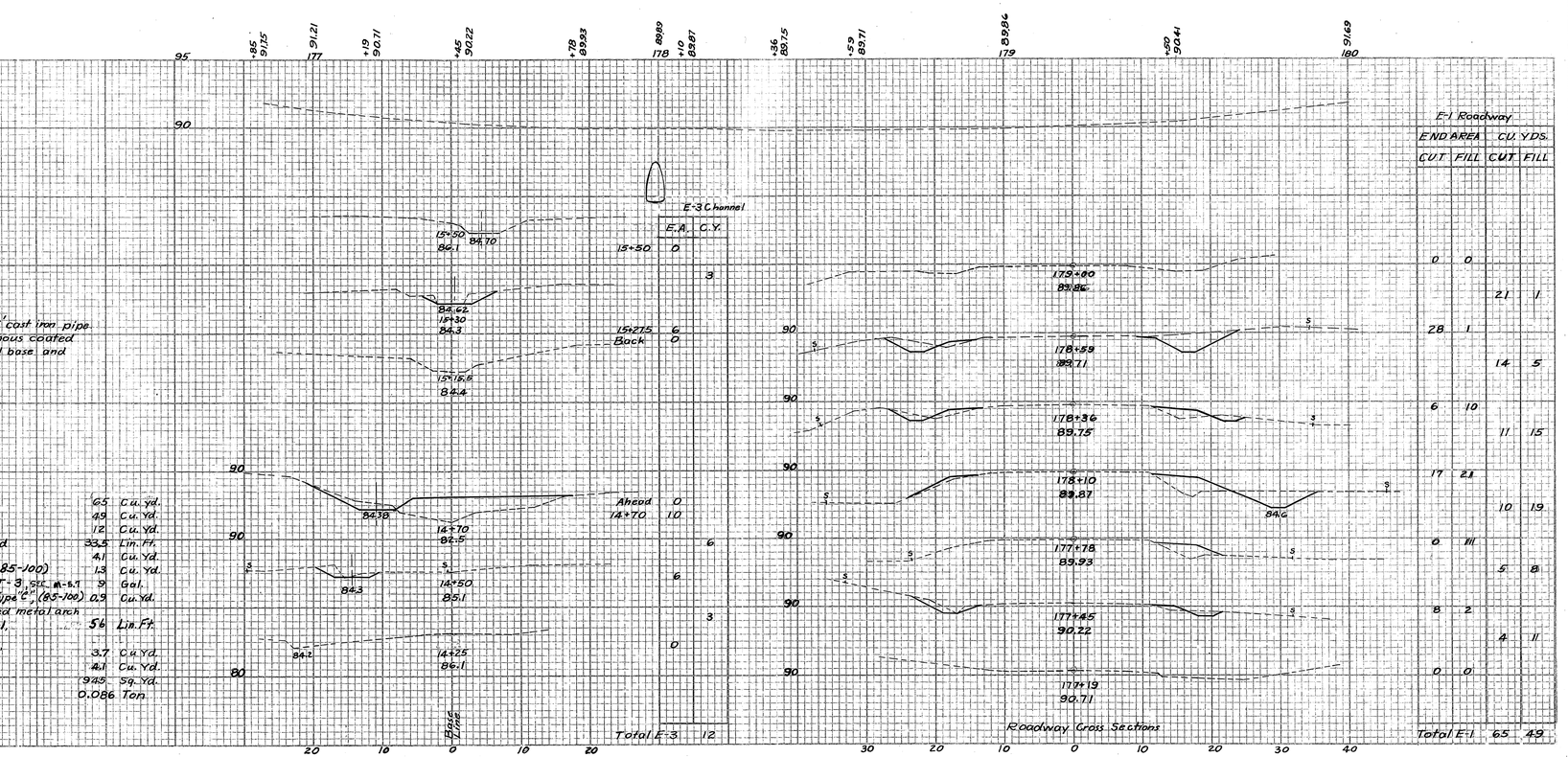


Existing Structure	Proposed Structure
Type Cast iron pipe	Type – Corrugated metal arch
Size 36"	Size – 58"X36"X 56'
Skew 4° Lt. fwd.	Skew – 15°
	Drainage area 267 acres
	Gage 8
	Q_{10} = 172 cfs.

Culvert Data
Type - Pipe arch culvert
Size - 58"X36"X56'
Work Req. Remove and store existing 36"X33.5' cast iron pipe. Build Standard 58"X36"X56" bituminous coated corrugated metal arch with integral base and Standard endwalls.

Estimated Quantities

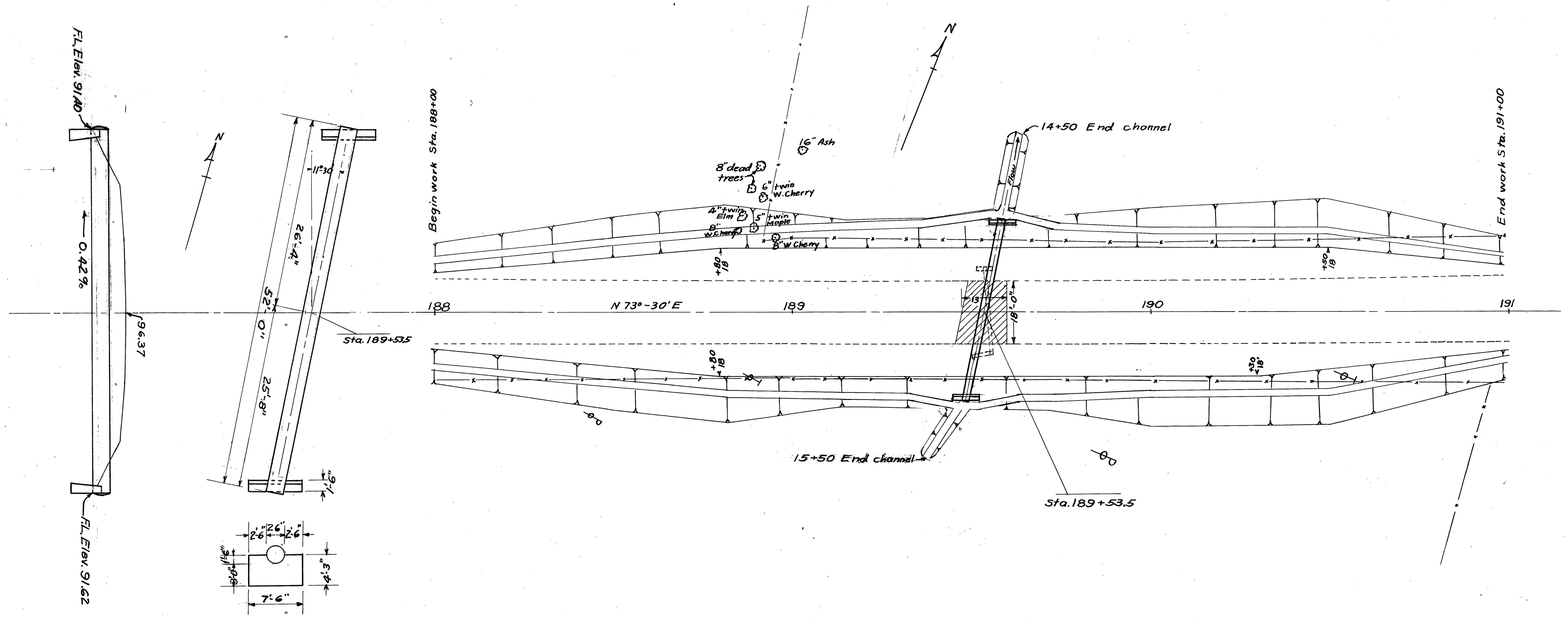
E-1	Roadway excavation, Method "A"	65	Cu. yd.
E-1	Embankment, Method "A"	49	Cu. Yd.
E-3	Channel excavation	12	Cu. Yd.
E-12	36" Cast iron pipe, removed and stored	33.5	Lin. Ft.
B-19	5" Aggregate base course	4.1	Cu. Yd.
B-35	1¾ Asphaltic concrete leveling course, (85-100)	1.3	Cu. Yd.
T-30	Bituminous prime coat, RT-2 or RT-3, Sec. M-6.1	9	Gal.
T-35	1½" Asphaltic concrete surface course, Type "C", (85-100)	0.9	Cu. Yd.
T-1	58"X36" bituminous coated corrugated metal arch with integral base, Sec. M-6.4 (1), Class G-1, Paved	56	Lin. Ft.
T-2	Masonry, concrete for endwalls, Class E	3.7	Cu. Yd.
T-22	5" Subbase	4.1	Cu. Yd.
L-9	Seeding and protecting, as per plan	94.5	Sq. Yd.
L-9	Commercial fertilizer (12-12-12)	0.086	Ton



E-1 Roadway			
END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
0	0		
		21	1
28	1		
		14	5
6	10		
		11	15
17	21		
		10	19
0	111		
		5	81
8	2		
		4	11
0	0		
Total E-1		65	49

FED. RD. DIVISION	STATE	PROJECT		7
2	OHIO			20

Crawford County
CRA96-0359 Sec. CRA96-1.34
Proposal No. 4



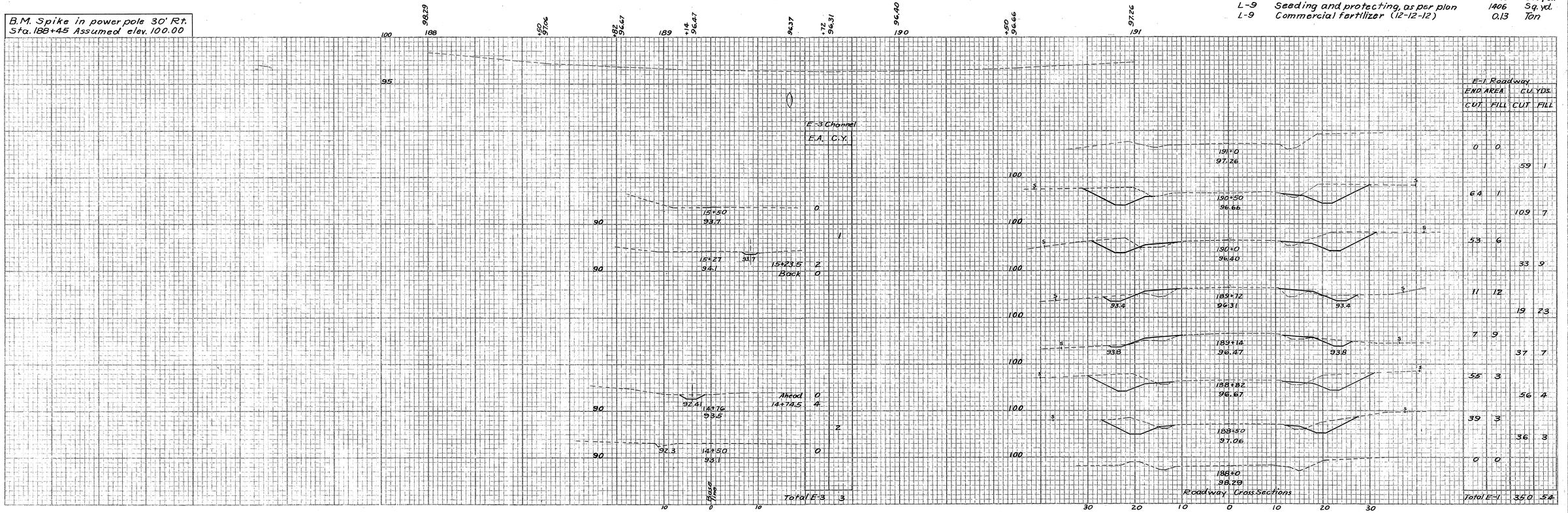
Existing Structure
Type - Cast iron pipe
Size 12"
Skew 0°

Proposed Structure
Type - Standard pipe culvert
Size - 30" X 52'
Skew - 11°-30' Left forward
Drainage area 35 acres
Q_{10} = 20 cfs.

Estimated Quantities

E-1	Roadway excavation Method "A"	350	Cu. yd.
E-1	Embankment, method "A"	54	Cu. yd.
E-3	Channel excavation	3	Cu. yd.
E-12	12" Cast iron pipe, removed and stored	24	Lin. ft.
S-22	Removal of portions of existing structure	Lump sum	
B-19	5" Aggregate base course	38	Cu. yd.
B-35	1¾" Asphaltic concrete leveling course, (85-100)	12	Cu. yd.
T-30	Bituminous prime coat, RT-2 or RT-3, SEC. M-5.1	8	Gal.
T-35	1½ Asphaltic concrete surface course, Type "C", (85-100)	09	Cu. yd.
I-1	30" Pipe ~~for bridges~~ ~~culverts~~, Class A-1	52	Lin. ft.
I-2	Masonry, Concrete for endwalls Class "E"	3.1	Cu. yd.
I-22	5" Subbase	38	Cu. yd.
L-9	Seeding and protecting, as per plan	1406	Sq. yd.
L-9	Commercial fertilizer (12-12-12)	0.13	Ton

B.M. Spike in power pole 30' Rt.
Sta. 188+45 Assumed elev. 100.00



E-1 Roadway

END AREA		CU. YDS.	
CUT.	FILL	CUT.	FILL
0	0		
		59	1
64	1		
		109	7
53	6		
		33	9
11	12		
		19	23
7	9		
		37	7
55	3		
		56	4
39	3		
		36	3
0	0		
Total E-1		350	54

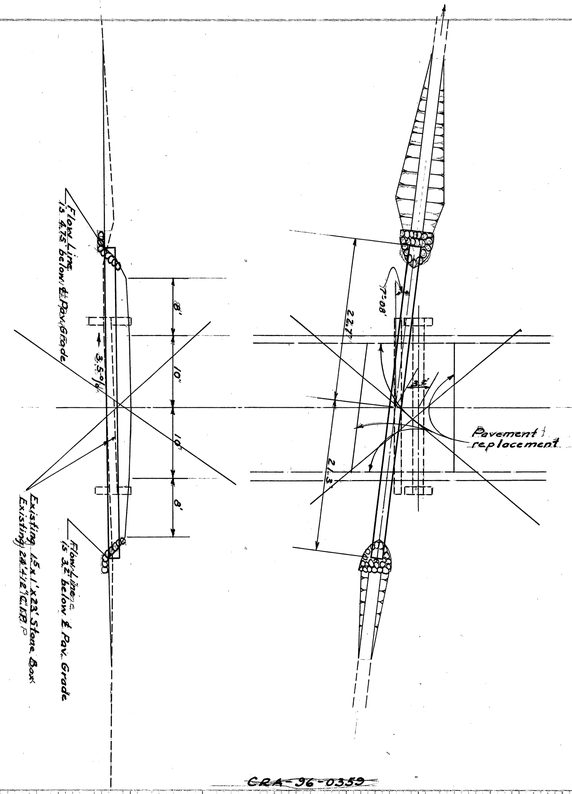
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

18
20

Crawford County
CRA96 - 0380 Sec CRA96 - 01.34
Proposal No. 5

Existing Structure
Type - Cast iron pipe
Size - 42"
Skew 21°-21' Rt. forward

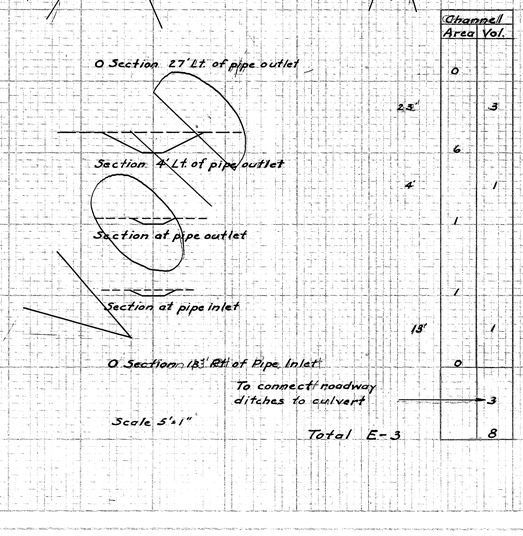
Proposed Structure
Type - Standard pipe culvert extension
Size - 42"X20' Lt. 42"X18'Rt.
Skew - 21°-21' Rt. forward
Drainage area - 115 Acres
Q10 = 40 cfs.



CRA-96-0353

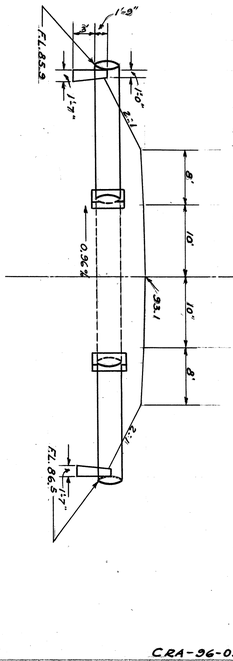
ESTIMATED QUANTITIES

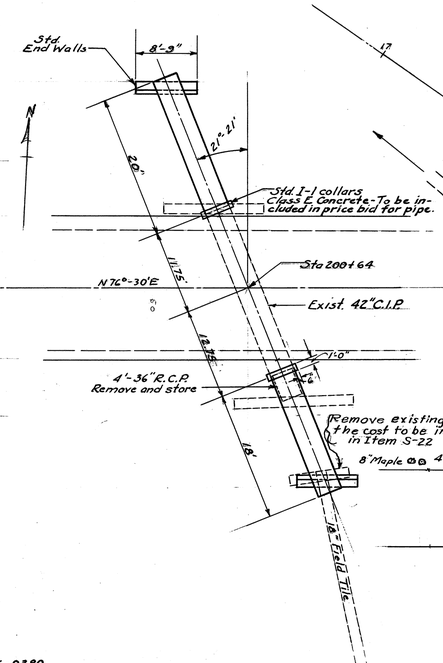
I-1	18" Pipe for Roadway Culverts	44 Lin. Ft.
E-12	12" C.I.P. Removed and Stored	24 Lin. Ft.
S-22	Removal of Portions of Existing Structure	Lump Sum
E-8	Removal of Existing Pavement	26 Sq. Yds.
B-19	5" Aggregate Base Course.	4.0 Cu. Yds.
I-22	5" Subbase	4.0 " "
B-35	1¾" Asphaltic Concrete Base Course	1.3 " "
T-35	1¼" Asphaltic Concrete Surface Course	0.9 " "
E-3	Channel Excavation	8 Cu. Yds.
I-100	Dumped Rock Fill (Culvert Ends)	4 Sq. Yds.

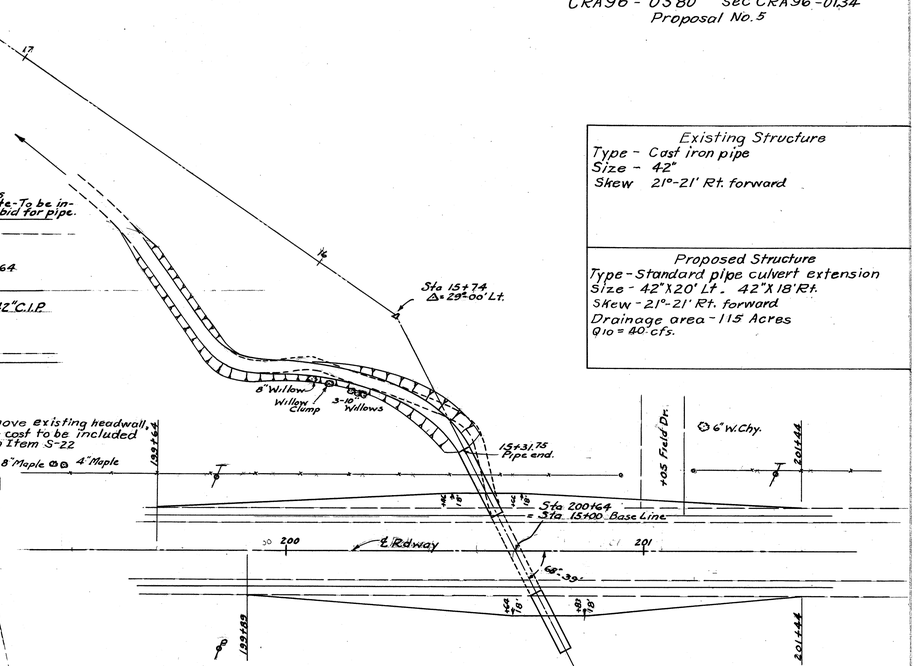


Channel	Area	Vol.
	0	
	3	
	6	
	1	
	1	
	1	
	1	
	0	
	3	
Total E-3		8

CRA-96-0380



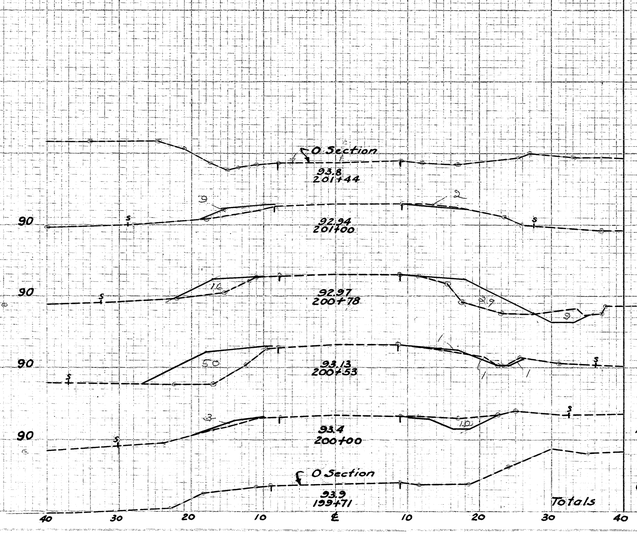




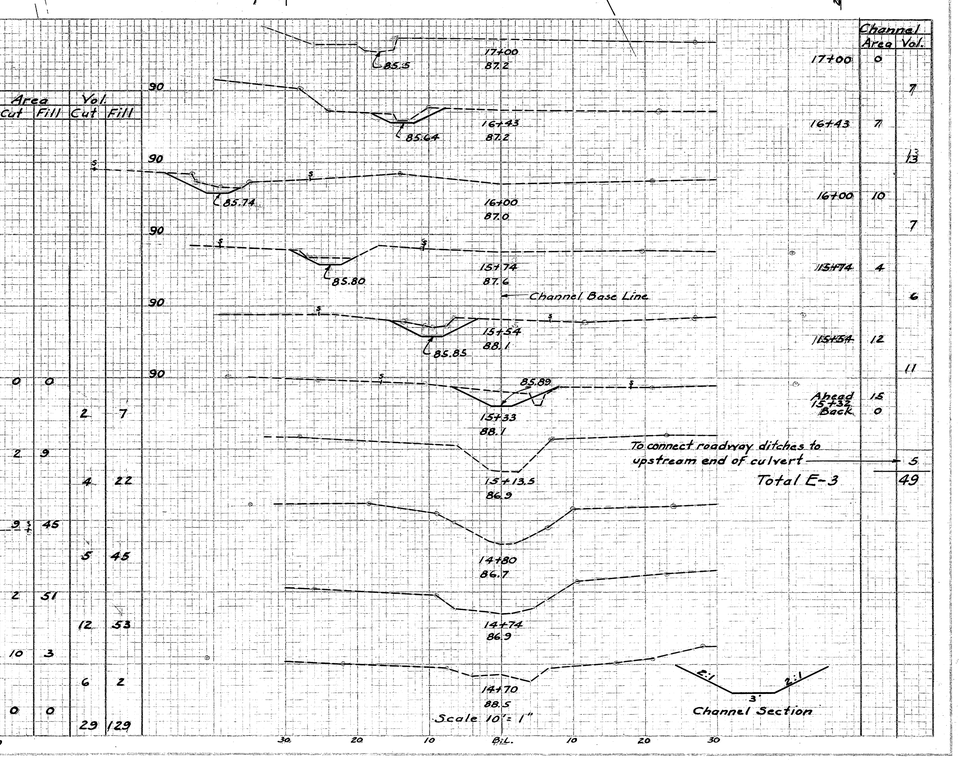
CRA-96-0380

ESTIMATED QUANTITIES

I-1	42" Pipe ~~for Culvert~~, Class A-1, Sec. M-6.01(b)	38 Lin. Ft.
E-12	36" R.C.P. Removed and Stored	4 Lin. Ft.
S-22	Removal of Portions of Existing Structure	Lump Sum
I-2	Masonry (Pipe Culvert End Walls) Class "E"	3.5 Cu. Yds.
E-3	Channel Excavation	49 Cu. Yds.
L-9	Seeding and protecting, as per plan	1168 Sq. Yds.
L-9	Commercial Fertilizer (12-12-12)	0.107 Ton
E-1	Roadway excavation Method "A"	29 Cu. Yds.
E-1	Embankment Method A	129 Cu. Yds.



Area Cut	Area Fill	Vol. Cut	Vol. Fill
0	0		
		2	7
2	9		
		4	22
9 ½	45		
		5	45
2	51		
		12	53
10	3		
		6	2
0	0		
Totals		29	129



Channel	Area	Vol.
17+00	0	
		7
16+43	7	
		13
16+00	10	
		7
15+74	4	
		6
15+54	12	
		11
Ahead	15	
15+33 Back	0	
		5
Total E-3		49

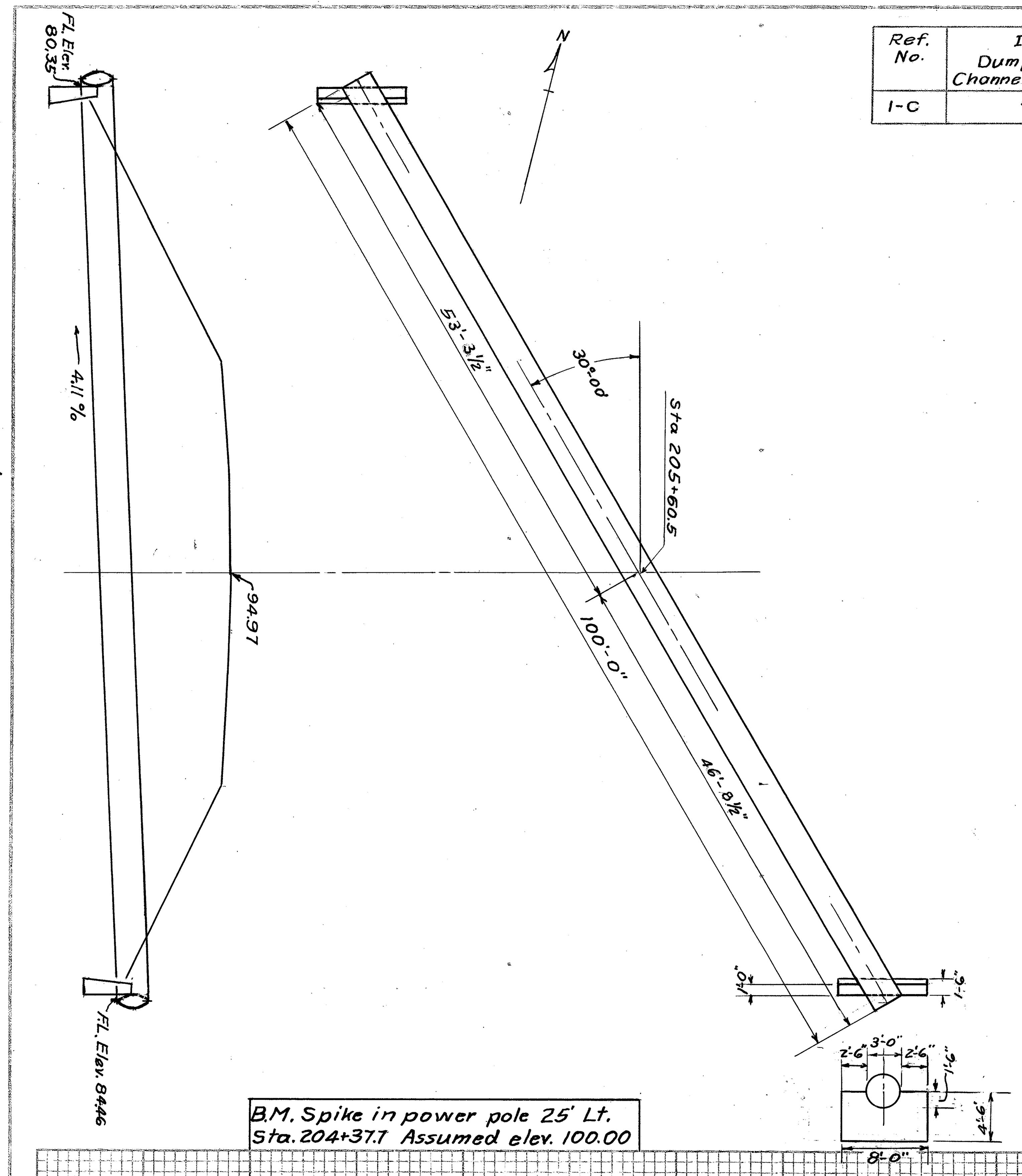
Crawford County
CRA96 - 0390 Sec. CRA96 - 1.34
Proposal No. 6

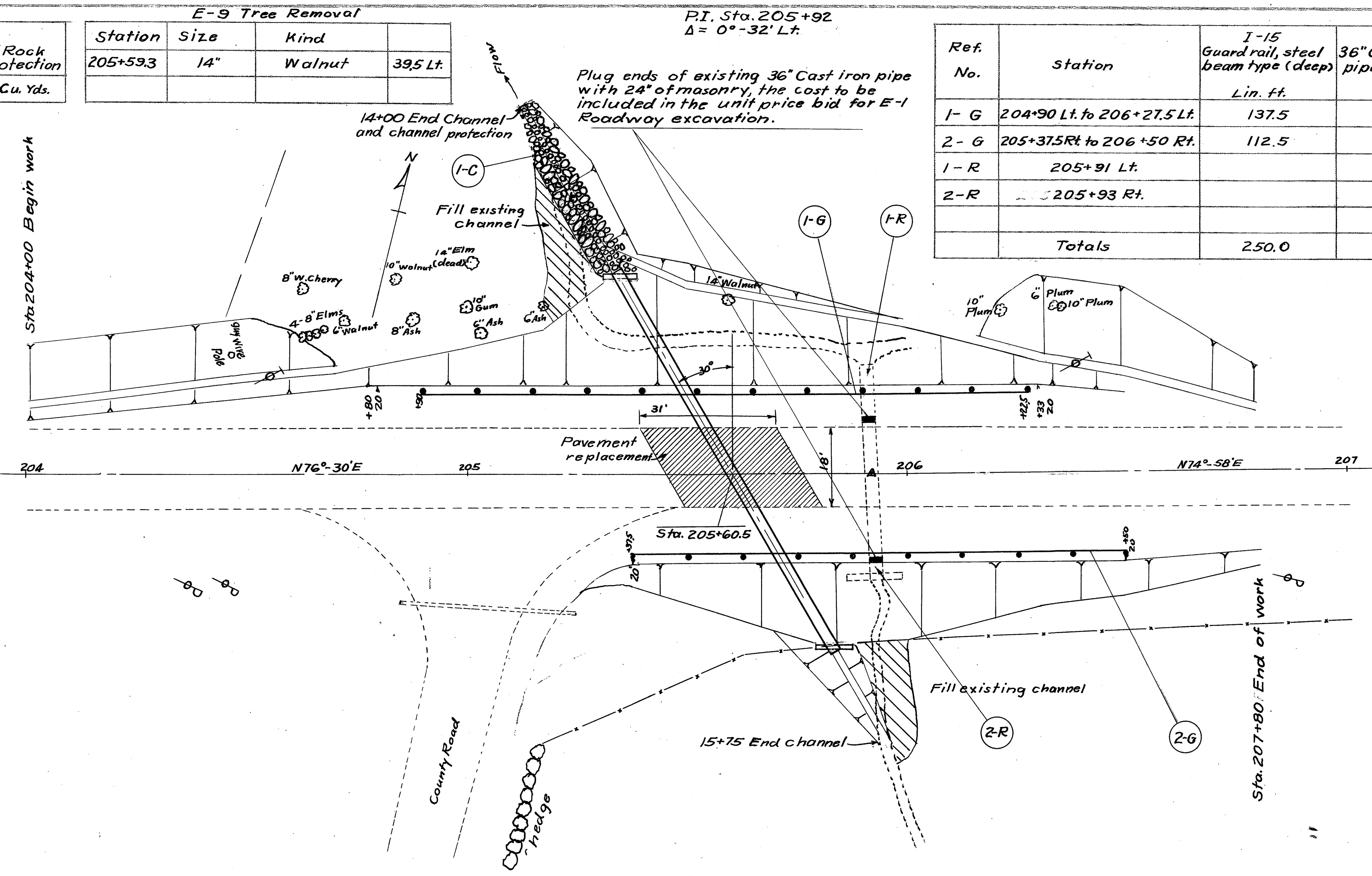
Ref. No.	I-10 Dumped Rock Channel Protection
1-C	74 Cu. Yds.

E-9 Tree Removal

Station	Size	Kind	
205+59.3	14"	Walnut	39.5 Lt.

Ref. No.	Station	I-15 Guard rail, steel beam type (deep) Lin. ft.	E-12 36" Corrugated metal pipe removed and stored Lin. ft.	E-12 36" Reinforced conc. pipe removed and stored Lin. ft.
1-G	204+90 Lt. to 206+27.5 Lt.	137.5		
2-G	205+37.5 Rt. to 206+50 Rt.	112.5		
1-R	205+91 Lt.		12	
2-R	205+93 Rt.			4
	Totals	250.0	12	4





Existing Structure
Type - Cast iron pipe
Size - 36"
Skew 0°-

Proposed Structure
Type - Standard pipe culvert
Size 36" X 100'-0"
Skew 30° Right forward
Drainage area 54 Acres
Q_{10} = 37 cfs.

Estimated Quantities

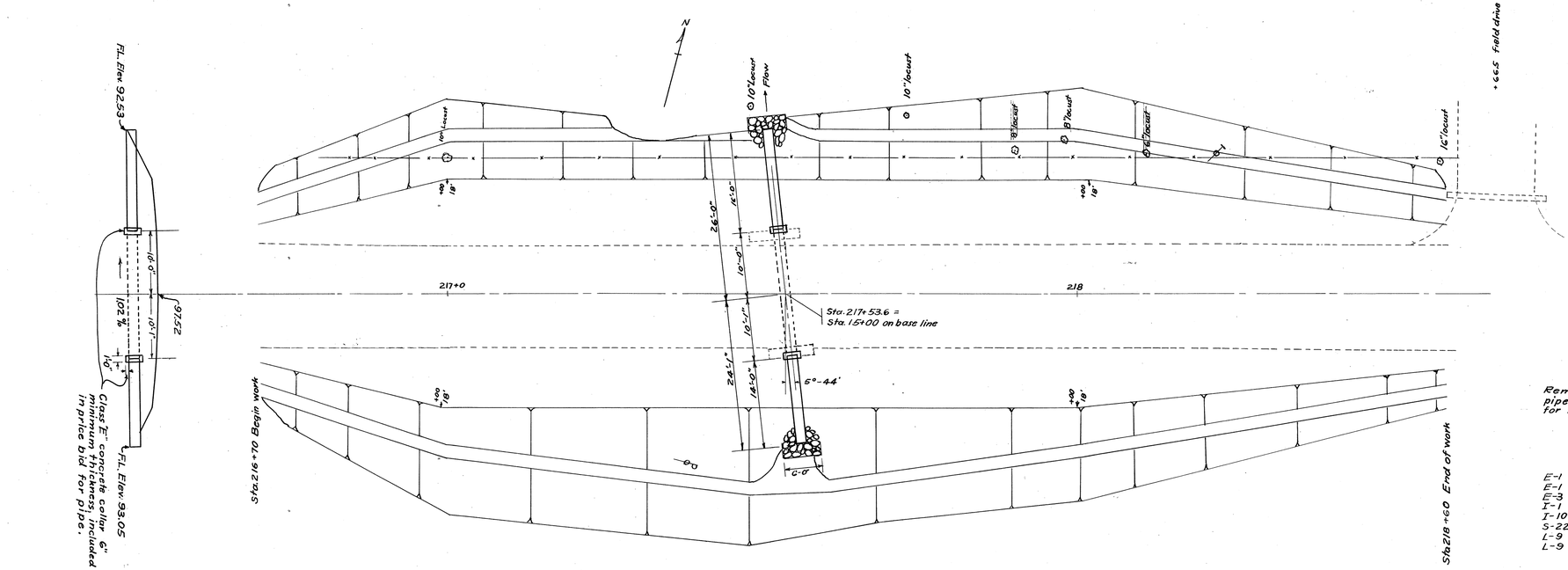
E-1	Roadway excavation Method "A"	167	Cu. yd.
E-1	Embankment Method "A"	425	Cu. yd.
E-3	Channel excavation	16	Cu. yd.
E-9	Removal of trees and stumps	1	Each
E-12	36" Pipe removed and stored, as per plan	16	Lin. ft.
B-19	5" Aggregate base course	9.2	Cu. yd.
B-35	1 3/4" Asphaltic concrete leveling course, (85-100)	2.9	Cu. yd.
T-30	Bituminous prime coat, RT-2 or RT-3, Sec. M-5.7	20	Gal.
T-35	1 1/4" Asphaltic concrete surface course, Type "C", (85-100)	2.1	Cu. yd.
I-1	36" Pipe, ~~for roadway pipe culverts~~ Class A-1	100	Lin. ft.
I-2	Masonry, concrete for endwalls, Class "E"	3.0	Cu. yd.
I-22	5" Subbase	9.2	Cu. yd.
L-9	Seeding and protecting, as per plan	1580	Sq. yd.
L-9	Commercial fertilizer (12-12-12)	0.14	Ton
I-15	Guard rail, Steel beam Standard type (deep)	250	Lin. ft.
I-10	Dumped rock channel protection	74	Cu. yd.

B.M. Spike in power pole 25' Lt.
Sta. 204+37.7 Assumed elev. 100.00

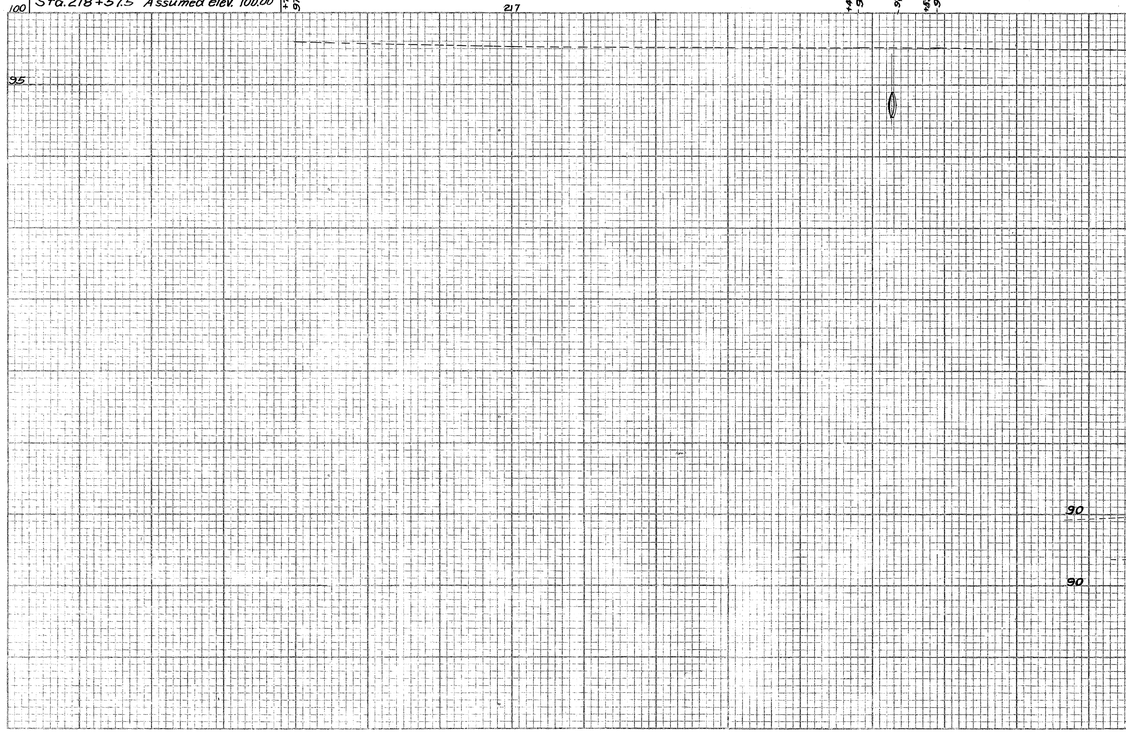
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

10
20

Crawford County
CRA96 - 0412 Sec. CRA96 - 1.34
Proposal No. 7



BM. Spike in 16" locust 21' Lt.
Sta. 218+57.5 Assumed elev. 100.00



E-3 Channel

	E.A	C.Y.
15+50	0	
		2
	7	
		3
15+26 Back	7	
	0	
Total E-3		5

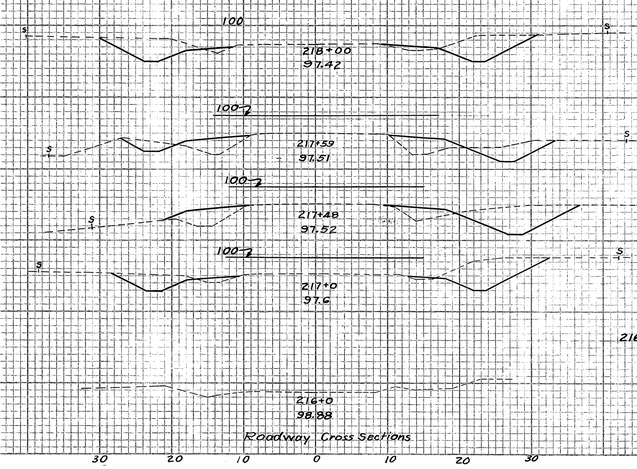
Work Required
Remove existing stone headwalls. Extend existing 20" cast iron pipe 14'-0" on Right and 16'-0" on Left with Standard 21" pipe for roadway culverts.

Estimated Quantities

E-1	Roadway excavation Method "A"	232	Cu. yds.
E-1	Embankment Method "A"	72	Cu. yds.
E-3	Channel excavation	5	Cu. yds.
I-1	21" pipe ~~culverts~~ Class A-1 Sec. M-6.6(b)	30	Lin. Ft.
I-10	12" crushed aggregate slope protection	6	Sq. yd.
S-22	Removal of portions of existing structure		Lump sum
L-9	Seeding and protecting, as per plan	996	Sq. yd.
L-9	Commercial fertilizer (12-12-12)	0.091	Ton

Existing Structure
Type Cast iron pipe
Size 21"
Skew 5°-44' Right forward

Proposed Structure
Type - Standard pipe culvert extension
Size 21" X 14'-0" on Rt. & 21" X 16'-0" on Lt.
Skew 5°-44' Right forward
Drainage area Sacres
Q100 = 8 cfs.



E-1 Roadway

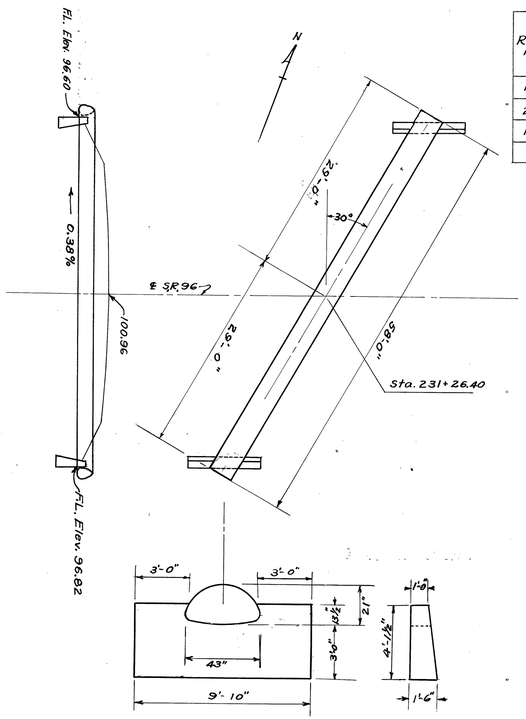
	END AREA		CU. YDS.	
	CUT	FILL	CUT	FILL
218+60	0	0		
			56	5
	51	5		
			56	25
	23	28		
			12	11
	36	27		
			79	28
	53	5		
			29	3
216+10	0	0		
Total E-1			232	72

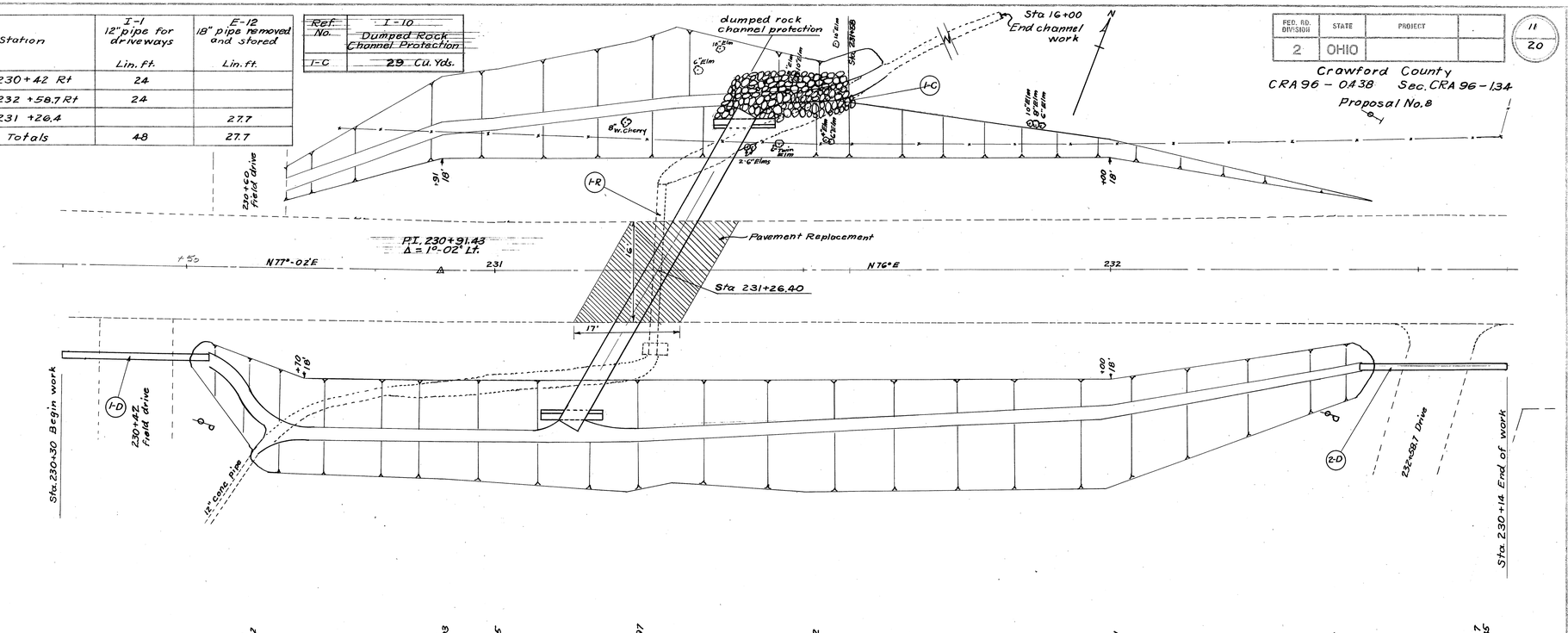
FED. RD. DIVISION	STATE	PROJECT		11
2	OHIO			20

Crawford County
CRA 96 - 0438 Sec. CRA 96 - 1.34
Proposal No. 8

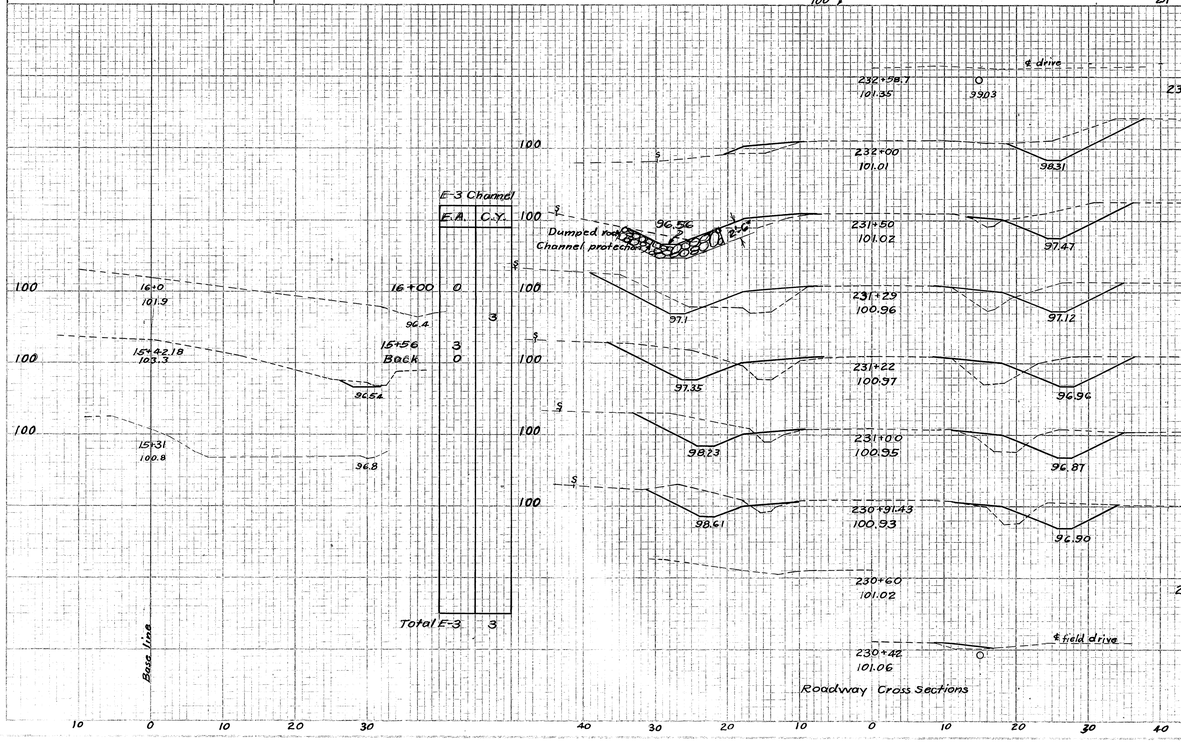
Ref. No.	Station	I-1 12" pipe for driveways Lin. Ft.	E-12 18" pipe removed and stored Lin. Ft.
1-D	230+42 Rt	24	
2-D	232 +58.7 Rt	24	
1-R	231 +26.4		27.7
Totals		48	27.7

Ref. No.	I-10 Dumped Rock Channel Protection
I-C	29 Cu. Yds.





B.M. Spike in 12" walnut 27.7' Lt.
Sta. 232 + 65.2. Assumed elev. 10000



Roadway Cross Sections

E-3 Channel

	E.A.	C.Y.
		3
	3	0
Total E-3	3	

E-1 Roadway

END AREA		C.C. YDS.	
CUT	FILL	CUT	FILL
0	0		
38	7		
		61	11
38	7		
		79	21
47	15		
		40	21
56	40		
		18	10
79	34		
		60	21
68	17		
		21	5
62	12		
		37	7
0	0		
Total E-1		316	96

Existing Structure
Type Reinforced concrete pipe
Size 18"
Skew 0°

Proposed Structure
Type- Corrugated metal arch
Size 3'-7" X 2'-3" X 58'-0"
Skew 30° Left forward
Drainage area 55 acres
Gage - 10
Qio = 26 cfs.

Estimated Quantities

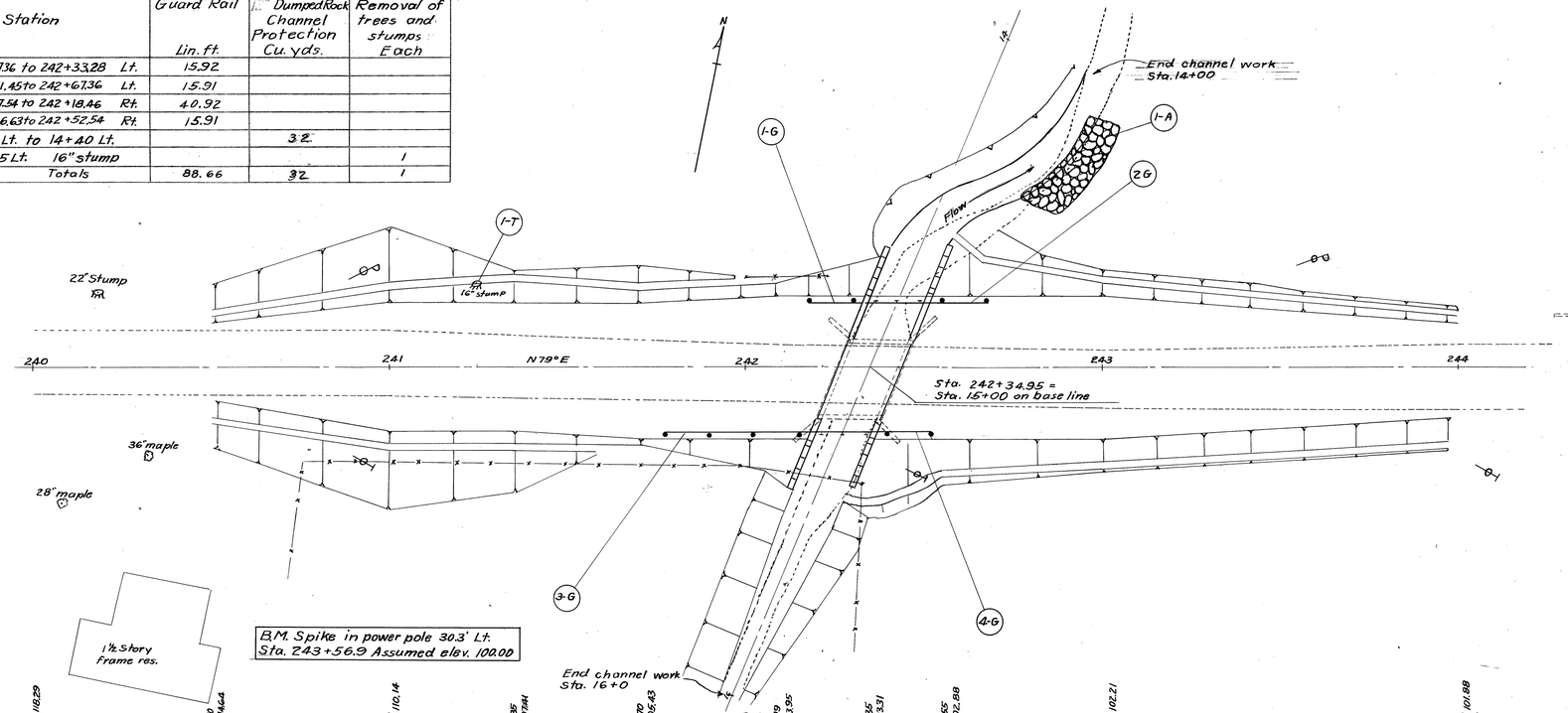
E-1	Roadway excavation Method "A"	316	Cu. yds.
E-1	Embankment Method "A"	96	Cu. Yds.
E-3	Channel excavation	3	Cu. yds.
E-12	18" Concrete pipe removed and stored	27.7	Lin. Ft.
B-19	5" Aggregate base Course	4.5	Cu. yd.
B-35	1¾ Asphaltic concrete leveling course, (85-100)	1.4	Cu. yd.
T-30	Bituminous prime coat, RT-2 or RT-3, sec. M-6.1	10	Gal.
T-35	1¼ Asphaltic concrete surface course, Type C, (85-100)	1.0	Cu yd.
I-1	43" X 27" Paved bituminous coated corrugated metal arch with integral base Sec. M-6.4 (c) (d) Class G-1	58	Lin. Ft.
I-1	12" pipe ~~for driveways~~ Class F1, Sec M 6.4 (a)	48	Lin. Ft.
I-10	5" dumped rock channel protection	29	Cu. yd.
I-22	5" Subbase	4.8	Cu. yd.
L-9	Seeding and protecting as per plan	1335	Sq. yd.
L-9	Commercial fertilizer (12-12-12)	0.12	Ton
I-2	Masonry, Concrete for endwalls Class "E"	3.1	Cu. Yd.

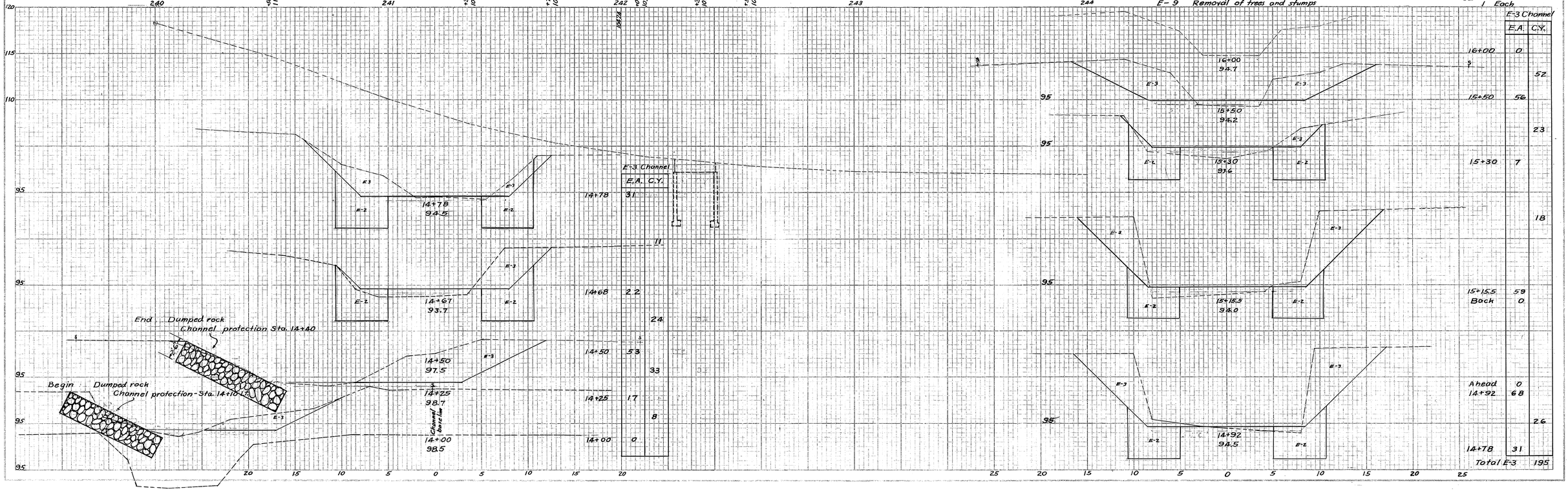
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

12
20

Crawford County
CRA 96 - 0459 Sec. CRA 96 - 1.34
Proposal No. 9

Ref. No.	Station	I-15 Guard Rail Lin. ft.	I-10 Dumped Rock Channel Protection Cu. yds.	E-9 Removal of trees and stumps Each
1- G	242+17.36 to 242+33.28 Lt.	15.92		
2- G	242+51.45 to 242+67.36 Lt.	15.91		
3- G	241+77.54 to 242+18.46 Rt.	40.92		
4- G	242+36.63 to 242+52.54 Rt.	15.91		
1- A	14+10 Lt. to 14+40 Lt.		32	
1- T	241+25 Lt. 16" stump			1
	Totals	88.66	32	1





Estimated Quantities (Structure)

E-2	Excavation for structure	81 Cu.yd.
E-2	Cofferdams, cribs and sheeting	Lump sum
E-3	Channel excavation	195 Cu.yd.
E-8	Removal of existing wearing course	40 Sq.yd.
S-1	Concrete for structures, Superstructure, Class "C"	19.3 Cu.yd.
S-1	Concrete for structures, Walls, Class "E"	40.5 Cu.yd.
S-1	Concrete for structures, Footings, Class "E"	30.6 Cu.yd.
S-3	Type "B" waterproofing 36" wide	11 Sq.yd.
S-4	Reinforcing steel	5315 Lbs.
S-9	½" Preformed expansion joint filler (bit. type)	11 Sq.ft.
S-14	Railing, steel beam, Standard type (deep) including galvanized steel posts and hardware	363.4 Lin.ft.
S-23	Dowel holes	16 Lin.ft.
S-22	Removal of portions of existing structure	Lump sum
S-29	Porous backfill	37 Cu.yd.

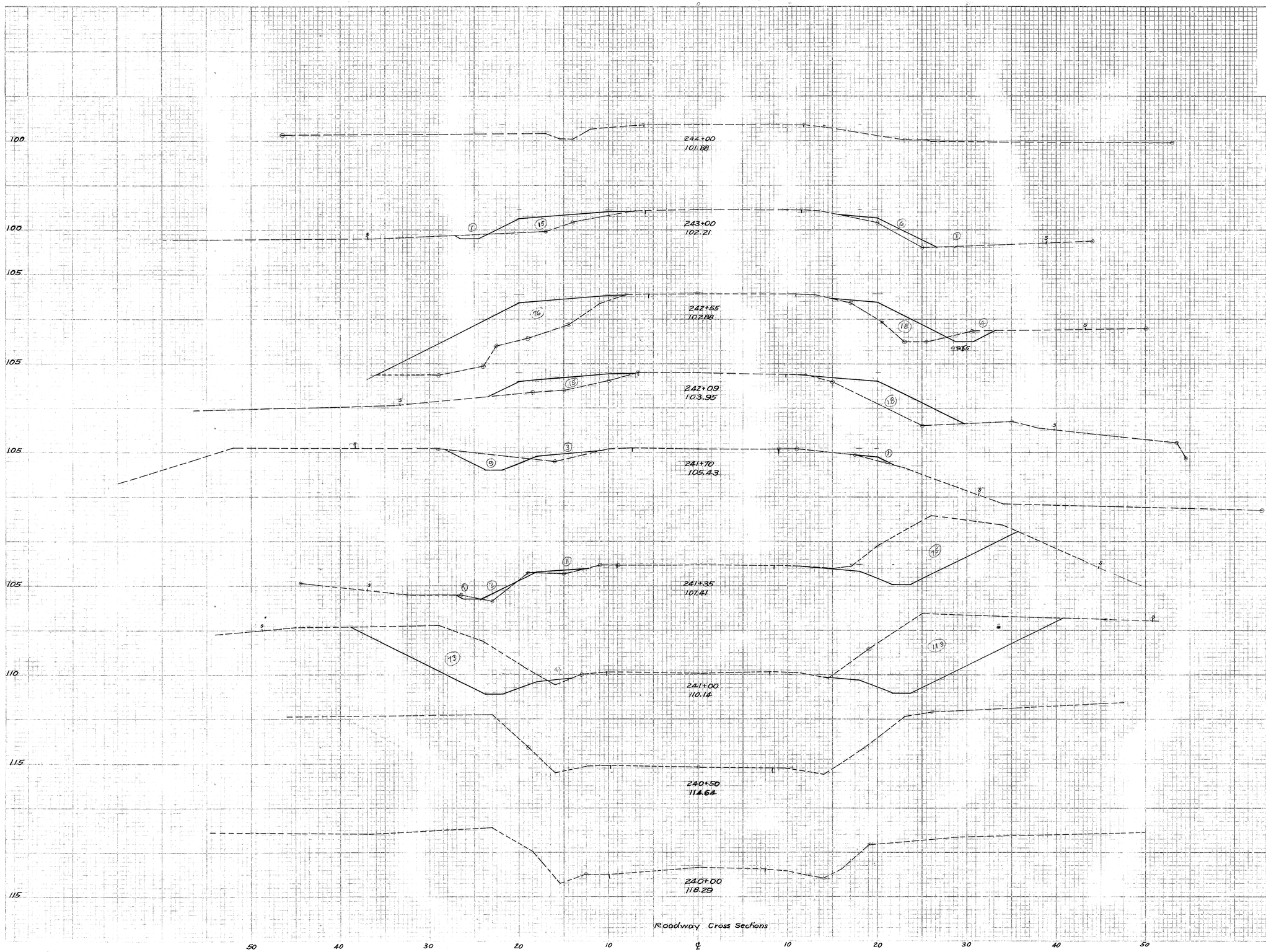
(Roadway)

E-1	Roadway excavation, Method "A"	415 Cu.yd.
E-1	Embankment, Method "A"	229 Cu.yd.
I-15	Guard rail, steel beam Standard Type (deep)	88.66 Lin.Ft.
L-9	Seeding and protecting, as per plan	1940 Sq.yd.
L-9	Commercial fertilizer (12-12-12)	0.18 Ton
I-10	Dumped rock Channel protection	32 Cu.yd.
E-9	Removal of trees and stumps	1 Each

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

13
20

Crawford County
CRA 96 - 0459 Sec. CRA 96 - 1.34
Proposal No. 9



Roadway Cross Sections

E-1 Roadway

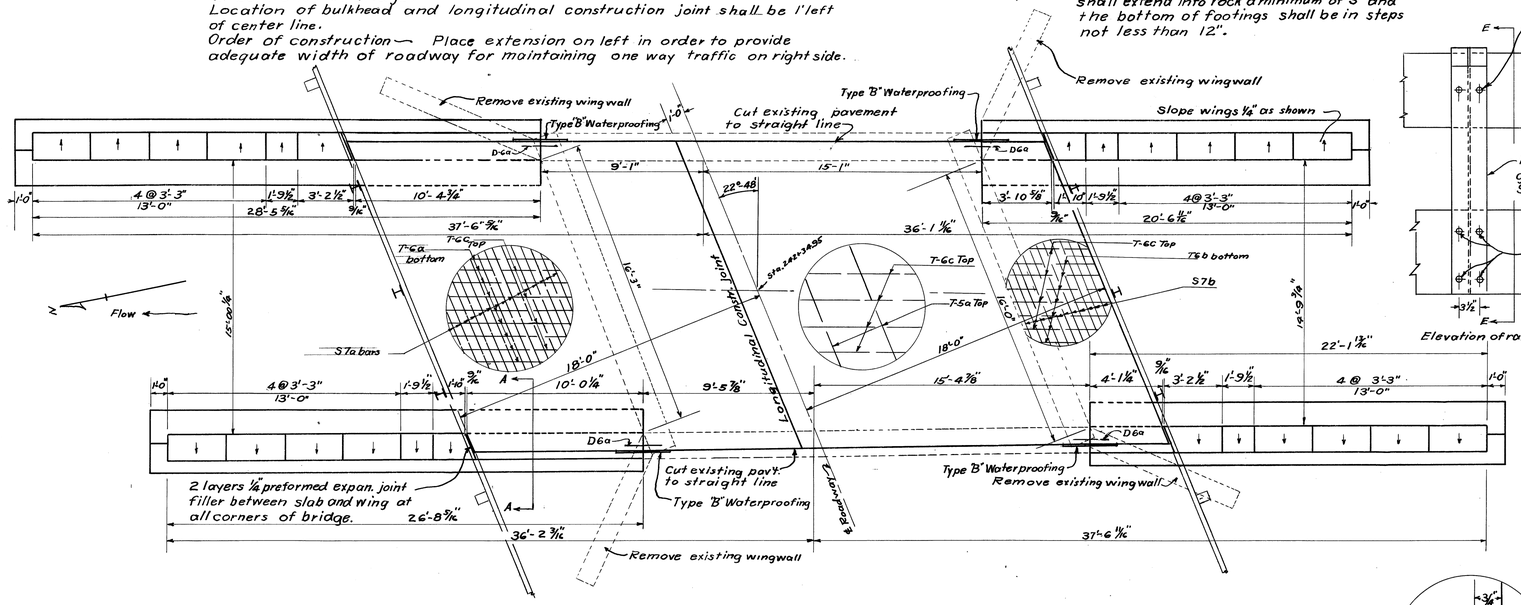
	END AREA		C.U. YDS.	
	CUT	FILL	CUT	FILL
244+00	0	0		
			4	39
243+00	2	21		
			5	96
242+55	4	94		
			2	38
242+44.05 Out for bridge 242+25.35	4	94		
	0	33		
242+09	0	33	0	21
			7	27
241+70	9	4		
			55	5
241+35	76	3		
			170	2
241+0	186	1		
			172	1
240+50	0	0		
Total E-1			415	229

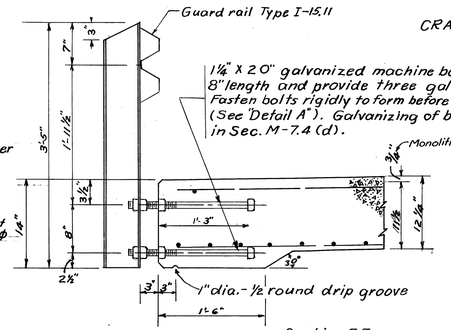
FED. RD. DIVISION	STATE	PROJECT		14
2	OHIO			20

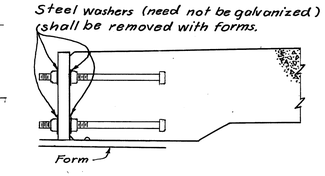
Crawford County
CRA96 - 0459 Sec. CRA96-134
Proposal No. 9

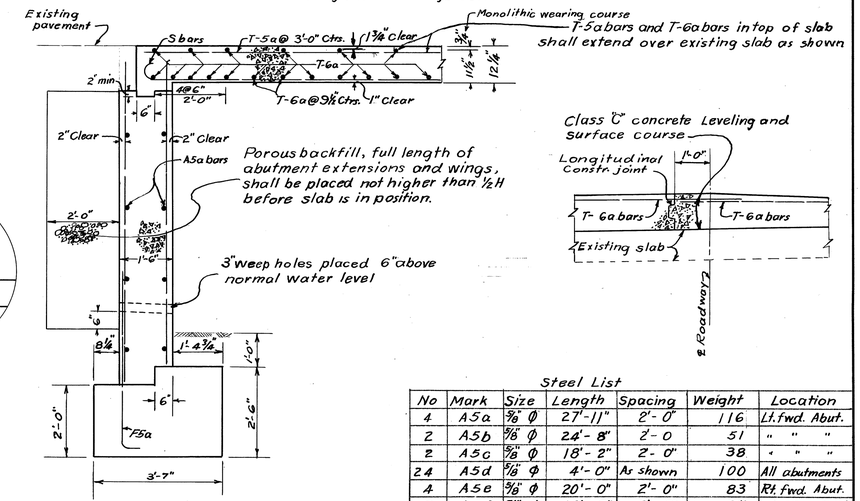
Remove bituminous concrete from existing slab. Cut ends to neat lines. Place concrete surface course on existing slab to meet existing grade at both ends of bridge.
Location of bulkhead and longitudinal construction joint shall be l'left of center line.
Order of construction — Place extension on left in order to provide adequate width of roadway for maintaining one way traffic on right side.

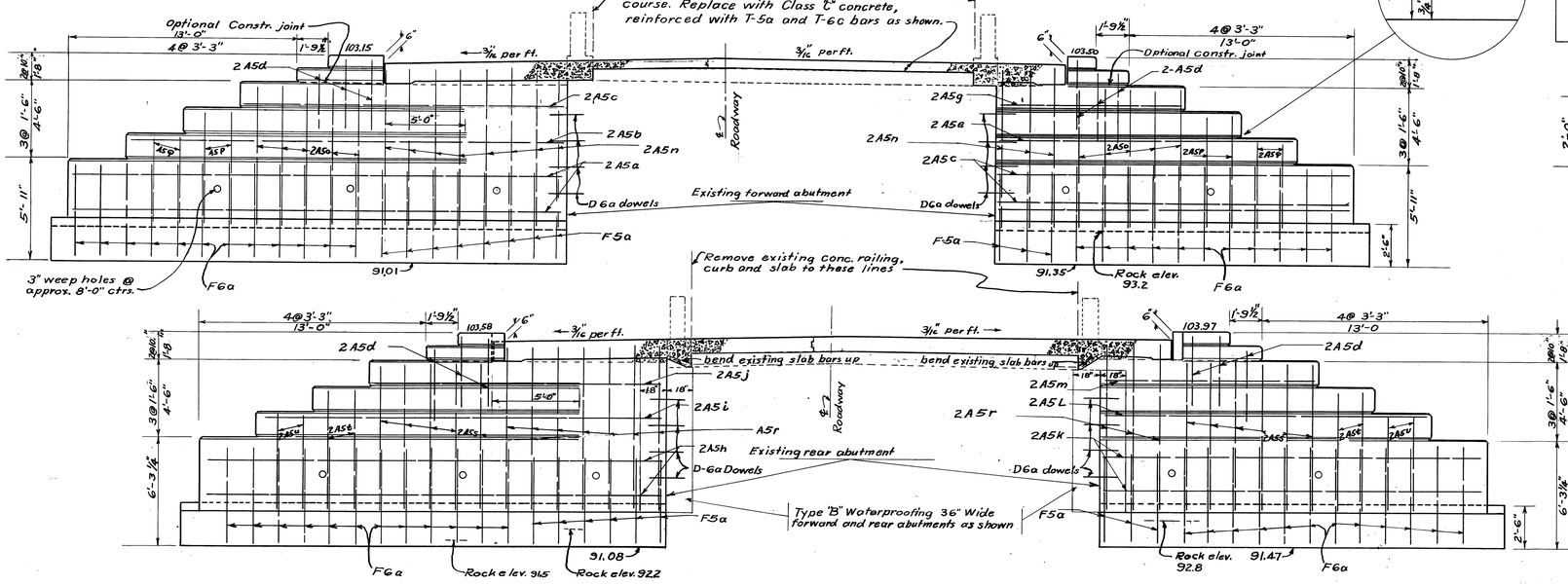
Note — Footings shall be built to elevations as indicated, except that the footings shall extend into rock a minimum of 3" and the bottom of footings shall be in steps not less than 12".

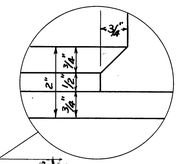


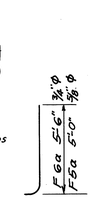












Bending diagrams

REPLACEMENT BARS: If reinforcing bars are fabricated from stock which has previously been tested and approved by the Ohio Highway Testing Laboratory, Test samples as provided in Sec. 402 need not be furnished and replacement bars will not be required.

Steel List

No	Mark	Size	Length	Spacing	Weight	Location
4	A5a	5/8" ϕ	27'-11"	2'-0"	116	Lt. fwd. Abut.
2	A5b	5/8" ϕ	24'-8"	2'-0	51	" " "
2	A5c	5/8" ϕ	18'-2"	2'-0"	38	" " "
24	A5d	5/8" ϕ	4'-0"	As shown	100	All abutments
4	A5e	5/8" ϕ	20'-0"	2'-0"	83	Rt. fwd. Abut.
2	A5f	5/8" ϕ	16'-9"	2'-0"	35	" " "
2	A5g	5/8" ϕ	10'-3"	2'-0"	21	" " "
2	A5h	5/8" ϕ	26'-2"	2'-0	109	Lt. Rear Abut.
2	A5i	5/8" ϕ	22'-11"	2'-0"	48	" " "
2	A5j	5/8" ϕ	16'-5"	2'-0"	34	" " "
4	A5k	5/8" ϕ	21'-7"	2'-0"	90	Rt. Rear Abut.
2	A5l	5/8" ϕ	18'-4"	2'-0"	38	" " "
2	A5m	5/8" ϕ	11'-10"	2'-0"	25	" " "
2	A5n	5/8" ϕ	8'-8"	1'-5 1/2"	199	Fwd. Abutments
20	A5o	5/8" ϕ	7'-8"	1'-5 1/2"	160	" Wings
8	A5p	5/8" ϕ	6'-2"	1'-5 1/2"	51	" "
8	A5q	5/8" ϕ	4'-8"	1'-5 1/2"	39	" "
20	F5a	5/8" ϕ	5'-6"	1'-5 1/2"	115	Footings
47	F6a	3/4" ϕ	6'-2"	1'-5 1/2"	436	"
25	S7a	7/8" ϕ	19'-9"	5 1/2"	1009	Slab Lt. side
11	S7b	7/8" ϕ	19'-6"	5 1/2"	438	Slab Rt. side
24	T6a	3/4" ϕ	11'-4"	As shown	408	Slab Lt. side
24	T6b	3/4" ϕ	5'-2"	" "	186	Slab Rt. side
24	T6c	3/4" ϕ	20'-2"	" "	727	Slab (top) Lt.
13	T5a	5/8" ϕ	17'-11	3'-0	243	Slab (Top)
16	D6a	3/4" ϕ	2'-0"	As shown	48	
20	A5r	5/8" ϕ	9'-0"	" "	188	Rear Abuts.
22	A5s	5/8" ϕ	8'-0"	" "	184	" "
8	A5t	5/8" ϕ	6'-6"	" "	54	
8	A5u	5/8" ϕ	5'-6"	" "	42	
1	R5a	7/8" ϕ	5'-7"	" "		
1	R6a	3/4" ϕ	5'-11"	" "		
1	R7a	7/8" ϕ	8'-4"	" "		
				Total	5315 lbs.	

Work Required
Remove existing concrete railing, curbs and slab. Bend existing slab bars upward as shown, the cost to be included in removal of portions of existing structure. Remove existing wingwalls. Extend existing slab bridge with Standard slab bridge as shown. Remove existing bituminous concrete wearing surface from existing bridge slab. Place concrete on existing slab as shown.

Existing Bridge Data
Type Standard Slab Bridge
Span 16'-3" Lt. side, 16'-0" Rt. side
Roadway 19'-8 1/4" between curbs.
Skew 22°-48' Left forward.
Condition - Narrow

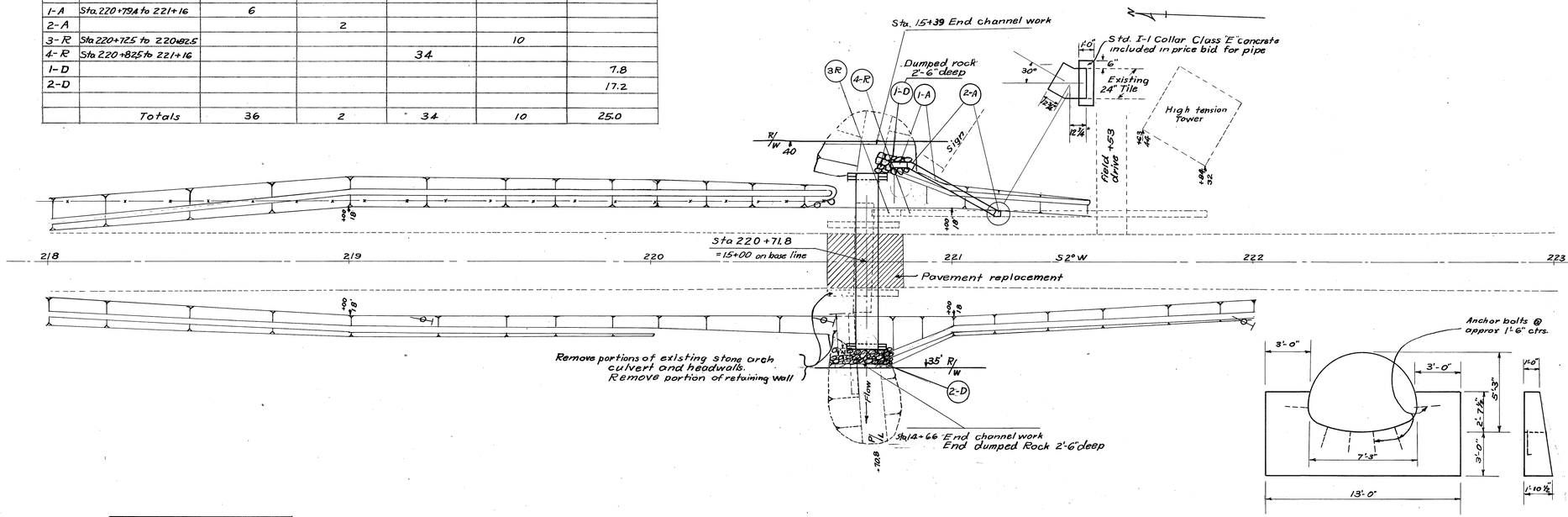
Drainage area 26.88 Acres
Q_{25} = 950 cfs.

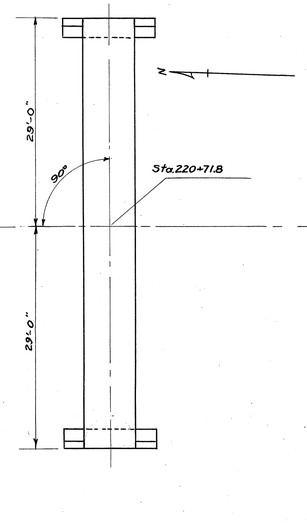
Proposed Structure
Type Standard Slab Bridge extension
Span 16'-3" Lt. exten.; 16'-0" Rt. exten.
Roadway Slab width 36'-0"
Skew - 22°-48' Left forward
Wearing Surface - 3/4" monolithic concrete
Railing Type - I-15
Alignment - Tangent.

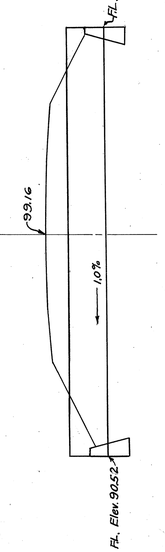
REF. NO.	Station	I-1 24" corr. Metal pipe for roadway drainage Lin. ft.	I-5 24" corr. Metal pipe Specials 30° bends Each	E-12 Removal of 24" field tile Lin. Ft.	E-12 Remove and store 24" corr. metal pipe Lin. ft.	I-10 Dumped Rock Channel Protection Cu. Yds.
1-A	Sta 220+79.4 to 221+16	30				
1-A	Sta. 220+79.4 to 221+16	6				
2-A			2			
3-R	Sta 220+72.5 to 220+82.5				10	
4-R	Sta 220+82.5 to 221+16			34		
1-D						7.8
2-D						17.2
	Totals	36	2	34	10	25.0

FED. RD. DIVISION	STATE	PROJECT		15 / 20
2	OHIO			

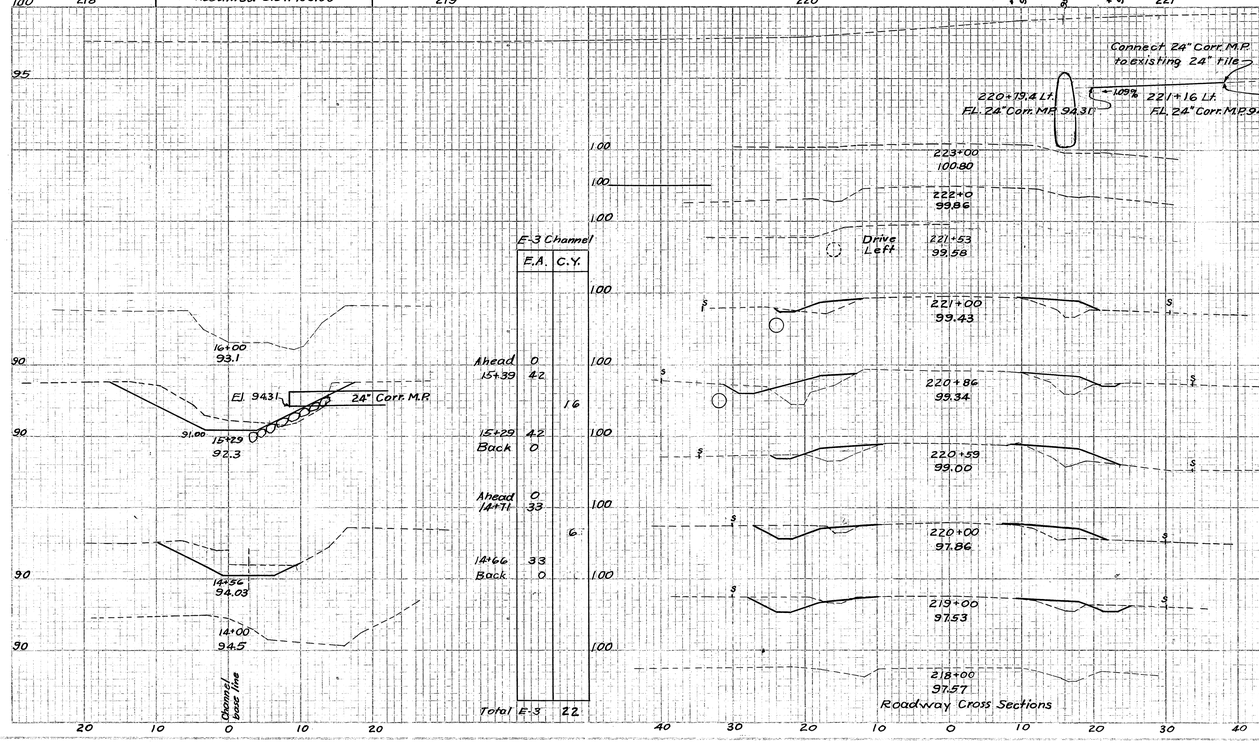
Crawford County
CRA 39 - 0418 Sec. CRA 39 - 0403
Proposal No. 10







B.M. Top nut S.W. leg of high tension line tower 32' Lt. Sta 221+84.5 Assumed elev. 100.00



E-3 Channel

	E.A.	C.Y.
Ahead	0	
15+39	42	
		16
15+29	42	
Back	0	
Ahead	0	
14+71	33	
		6
14+66	33	
Back	0	
Total E-3	22	

E-1 Roadway

	END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
222+00	0	0		
			2	37
	1	20		
			2	14
	6	34		
			4	31
	1	27		
			13	46
	11	15		
			54	41
	18	7		
			33	13
	0	0		
Total E-1			108	182

Work Required

Remove and store existing 72" X 36.35' corrugated metal pipe culvert.
Remove portions of existing stone arch culvert and retaining wall
Remove and store existing 24" X 10' corrugated metal pipe.
Remove 24" X 34' field tile.

Estimated Quantities

E-1	Roadway excavation Method "A"	108 Cu. yd.
E-1	Embankment, Method "A"	182 Cu. yd.
E-3	Channel excavation	22 Cu. yd.
E-12	24" pipe removed	34 Lin. ft.
E-12	72" Corrugated metal pipe removed and stored	36.35 Lin. ft.
E-12	24" Corrugated metal pipe removed and stored	10 Lin. ft.
B-19	5" Aggregate base course	7.4 Cu. yd.
B-35	1½ Asphaltic Concrete leveling course, (85-100)	2.3 Cu. yd.
T-30	Bituminous prime coat, Type RT-2 or RT-3 Sec. M-5.7	15 Gal.
T-35	1½ Asphaltic concrete surface course, Type "C", (85-100)	1.7 Cu. yd.
I-1	7'-3" X 5'-3" Sectional Corrugated Metal pipe-arch structure, Sec M-6.4 & 6, Class C pipe, Class 1 backfill, 10-10 Gage Sec.	58 Lin. ft.
I-1	24" corrugated metal pipe ~~for roadway drainage~~ (as per plan), Class III, 2, M-6.4 & C	36 Lin. ft.
I-5	24" corrugated metal pipe specials, 30° bends, as per plan, Sec. M-6.4(a) C.L. 1955 4-2	2 Each
I-2	Masonry, concrete for endwalls, Class 'E'	6.9 Cu. yd.
I-22	5" Subbase	7.8 Cu. yd.
S-22	Removal of portions of existing structure and retaining wall	Lump sum
L-9	Seeding and protecting as per plan	1702 Sq. yd.
L-9	Commercial fertilizer (12-12-12)	0.16 Ton
I-10	Dumped Rock channel protection	25 Cu. yd.

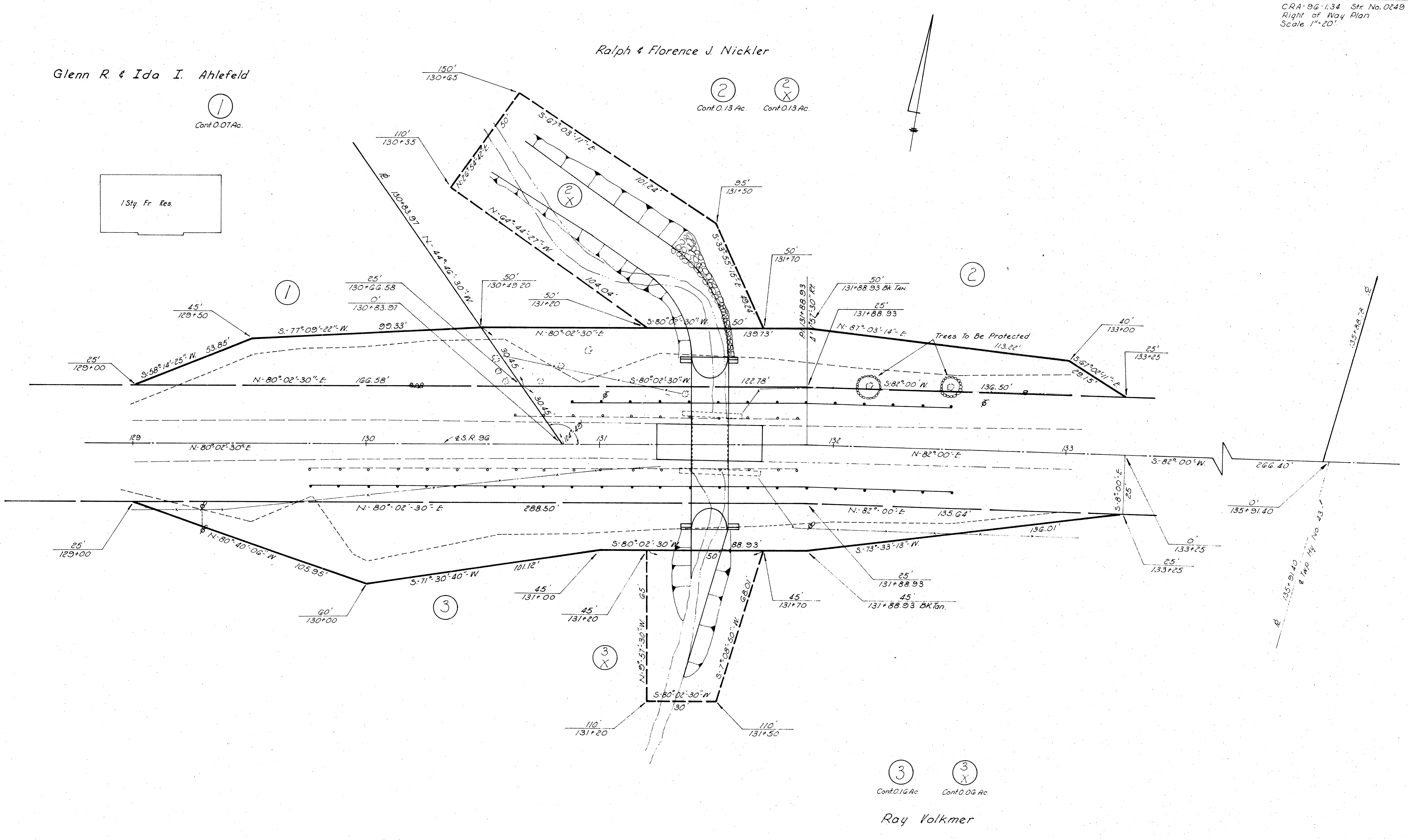
Existing Structure	Proposed Structure
Type Corrugated metal pipe	Type Sectional pipe arch
Size 72"	Size 7'-3" X 5'-3" X 58'-0"
Skew 0°	Skew None
Drainage area 4.16 Acres	
Q25 = 240 cfs.	Gage #10-10

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

16/20

1/4

CRA-96-1.34 Str. No. 0249
Right of Way Plan
Scale 1"=20'



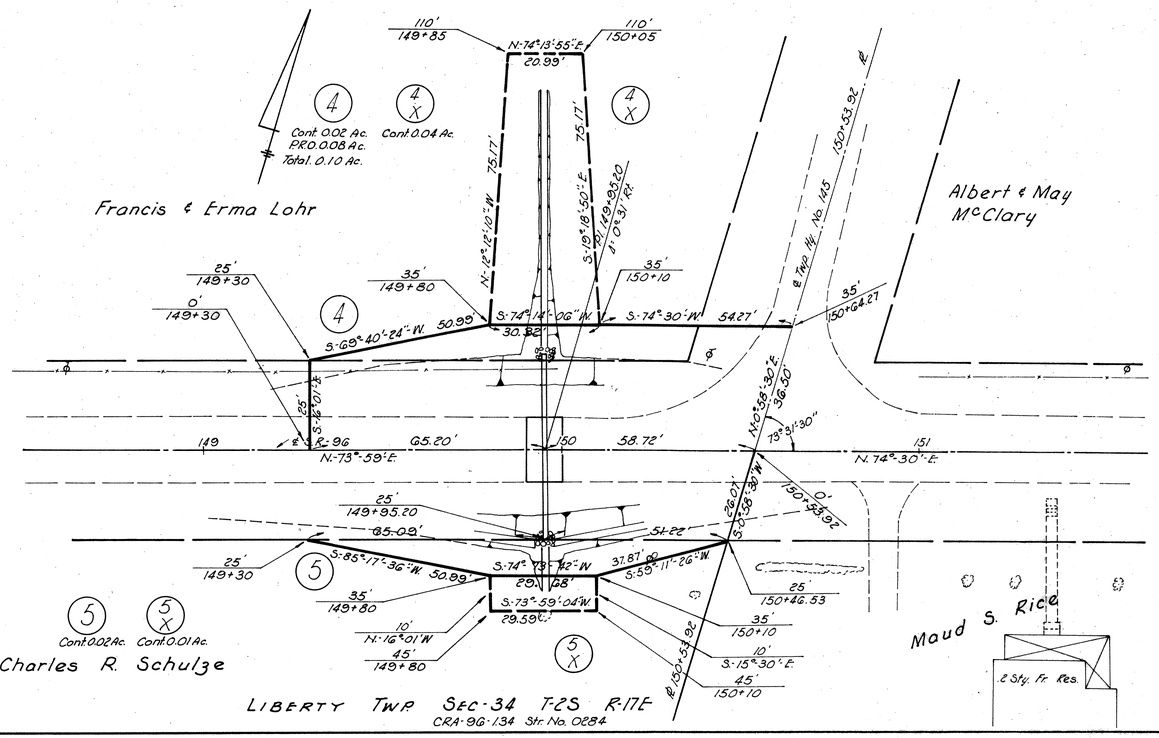
LIBERTY TWP. SEC-33 T-2S R-17E

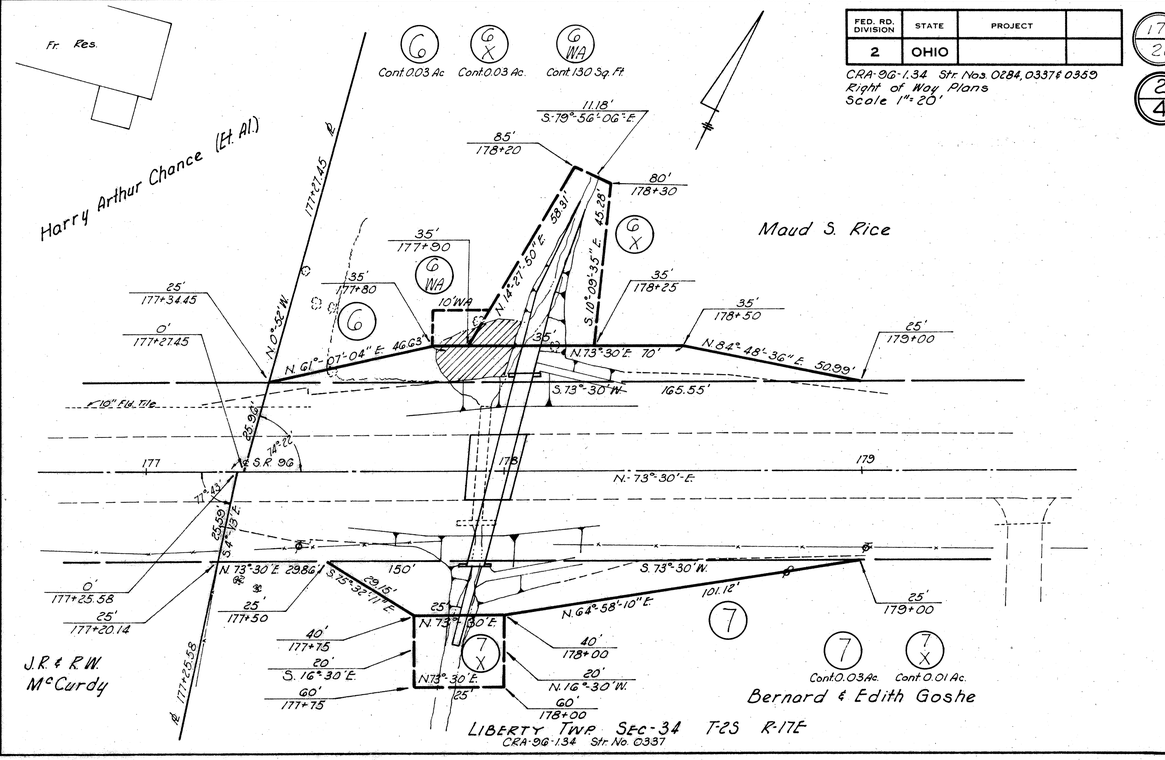
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

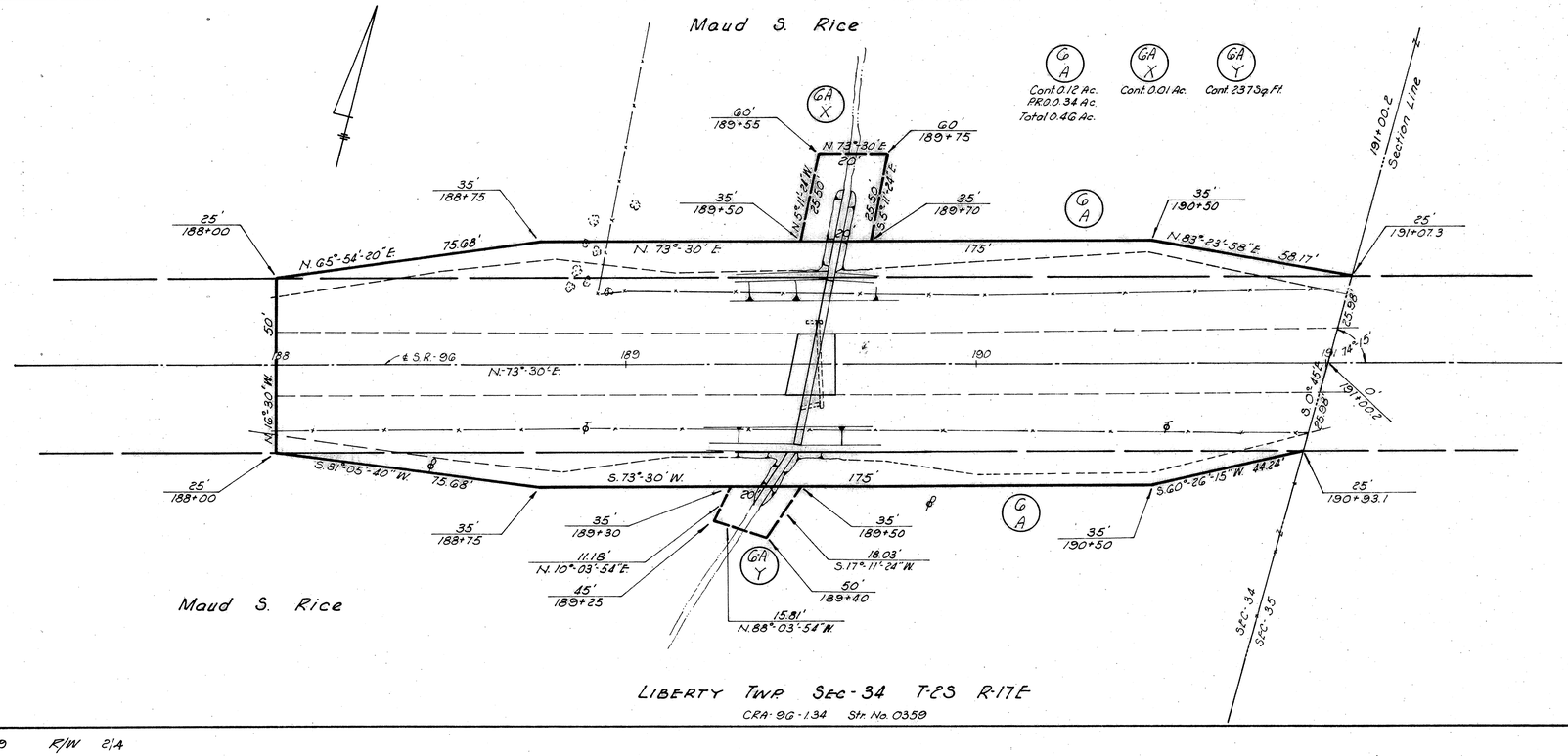
17 / 20

2 / 4

CRA-9G-1.34 Str Nos. 0284, 0337 & 0359
Right of Way Plans
Scale 1" = 20'







FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

CRA-9G-1.34 Str Nos. 0380, 0390 & 0412
Right of Way Plans
Scale (See Below)

18/20

3/4

Maud S. Rice

Cont 0.0G Ac. Cont 0.02 Ac.

Lester V. & Mary Clinger

Maud S. Rice

Cont 0.01 Ac. Cont 0.07 Ac.
PRO 0.04 Ac.
Total 0.05 Ac.

Maud S. Rice

Martha L. Christman

Lester V. & Mary Clinger

Cont 0.17 Ac. Cont 239 Sq Ft Cont 0.02 Ac.
PRO 0.22 Ac.
Total 0.39 Ac.

CRA-9G-1.34 Str. No. 0380

CRA-9G-1.34 Str. No. 0390

LIBERTY TWP. SEC. 35 T-2S R-17E

Scale-1"=20'

Scale-1"=10'

Lester V. & Mary Clinger

Cont 0.10 Ac.
PRO 0.23 Ac.
Total 0.33 Ac.

Charles A. Rowles

Arthur D. & Pauline Hancock

LIBERTY TWP SEC-35 T-2S R-17E

CRA-9G-1.34 Str. No. 0412

Lester V. & Mary Clinger

FED. RD. DIVISION
STATE
PROJECT
2
OHIO
19
20
4
4
CRA-96-1.34 Str. Nos. 0438 & 0459
Right of Way Plans
Scale (See Below)
Arthur D. & Pauline Hancock
Calvin R. Beeson
Cont. 0.03 Ac.
Cont. 0.08 Ac.
℄ S.R. 96
N. 77°-02' E.
N. 76°-00' E.
S. 76°-00' W.
S. 68°-27'-36" W.
S. 88°-31'-44" W.
S. 42°-02'-35" W.
S. 54°-11'-55" W.
S. 76°-14' W.
N. 14°-00' W.
S. 14°-00' E.
LIBERTY TWP. SEC. 35 T-2S R-17E
CRA-96-1.34 Str. No. 0438
Scale 1" = 10'
Scale 1" = 20'
Cont. 0.07 Ac.
Cont. 0.05 Ac.
Cont. 200 Sq.ft.
5' W.A.
Calvin R. Beeson (FEE)
Gene Morral (L.C.)
Cont. 0.03 Ac.
Cont. 0.02 Ac.
S. 79°-00' W.
N. 79°-00' E.
S. 62°-18'-02" W.
S. 44°-18'-18" W.
S. 15°-33'-54" W.
N. 87°-31'-50" E.
S. 69°-54'-35" W.
N. 74°-26'-06" W.
S. 80°-26'-38" E.
N. 25°-52'-12" E.
244+98.90 Private R/W Line
℄ Private Drive 245+28.40
SPIKE
Spike 242+35.20
Spike 243+25.89
Arthur D. & Pauline Hancock
Cont. 0.14 Ac.
Cont. 0.07 Ac.
1½ Story Frame Res.
Section 26
Section 35
Section 26
Section 25
CRA-96-1.34 Str. No. 0459
LIBERTY TWP
SEC. 35 & 26 T-2S R-17E
Rev. 1-26-62

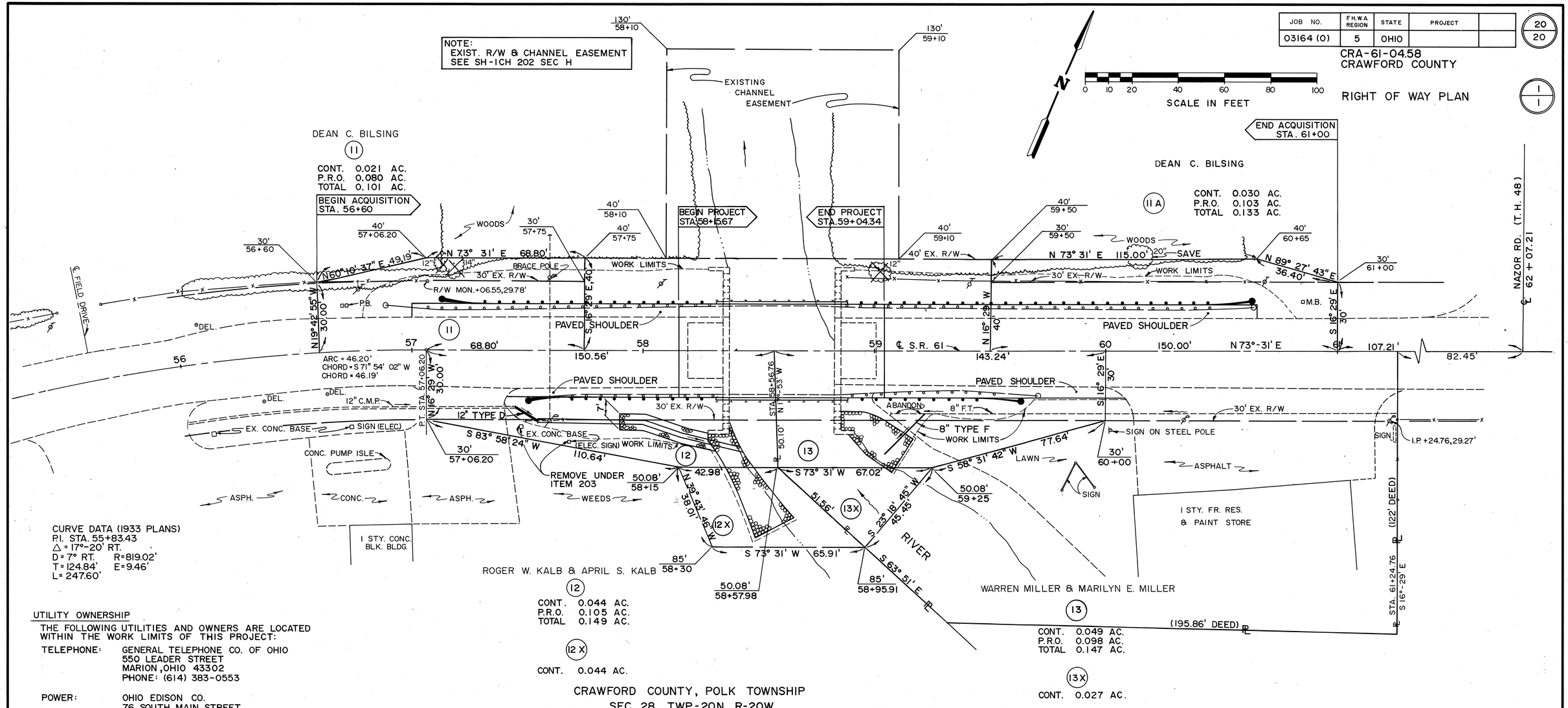
JOB NO.	F.H.W.A. REGION	STATE	PROJECT	
03164 (0)	5	OHIO		

20/20

CRA-61-04.58
CRAWFORD COUNTY

1/1

RIGHT OF WAY PLAN



CURVE DATA (1933 PLANS)
P.I. STA. 55+83.43
△ = 17°-20' RT.
D = 7° RT. R = 819.02'
T = 124.84' E = 9.46'
L = 247.60'

UTILITY OWNERSHIP

THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT:

TELEPHONE: GENERAL TELEPHONE CO. OF OHIO
550 LEADER STREET
MARION, OHIO 43302
PHONE: (614) 383-0553

POWER: OHIO EDISON CO.
76 SOUTH MAIN STREET
AKRON, OHIO 44308
PHONE: (216) 384-4631

CABLE TV: CONTINENTAL CABLEVISION OF OHIO
21 PUBLIC SQUARE
GALION, OHIO 44833
PHONE: (419) 468-2000

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC.

CRAWFORD COUNTY, POLK TOWNSHIP
SEC. 28, TWP-20N, R-20W

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

NO. OF STRUCTURES 0. NO. OF PROPERTY OWNERS 3. NO. OF TOTAL TAKES 0. AREAS IN ACRES.

PARCEL NUMBER	TYPE FUNDS	PROPERTY OWNERS	RECORDED BOOK	RECORDED PAGE	DEED AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	NET RESIDUE LEFT	NET RESIDUE RIGHT	BLDG.	SHEET NO.	REMARKS	As Acquired VOL.	As Acquired PG.
11	STATE	DEAN C. BILSING	228	258	23.619 AC.	1.420	0.101	0.080	0.021	12.264	9.884	NO	1	TRACT 3 & TRACT 4 OF DEED. TRACT 4 1.730 ACRES IN SEC 33	425	320
11 A	" "	" "					0.133	0.103	0.030						425	321
12	" "	ROGER W. KALB & APRIL S. KALB	407	731	8.295 AC.	0.251	0.149	0.104	0.045	———	7.999	P	1	SIGN	425	316
12 X	" "	" " " " " " " "					0.044	———	0.044	———	———			CHANNEL EASEMENT	425	317
13	" "	WARREN MILLER & MARILYN E. MILLER	345	381	0.679 AC.	0.184	0.147	0.098	0.049	———	0.446	NO	1		425	71
13 X	" "	" " " " " " " "					0.027		0.027					CHANNEL EASEMENT	425	72

TYPE FUND···· STATE
COMPLETION DATE···· MAY 18, 1987

REV.	DATE	DESCRIPTION