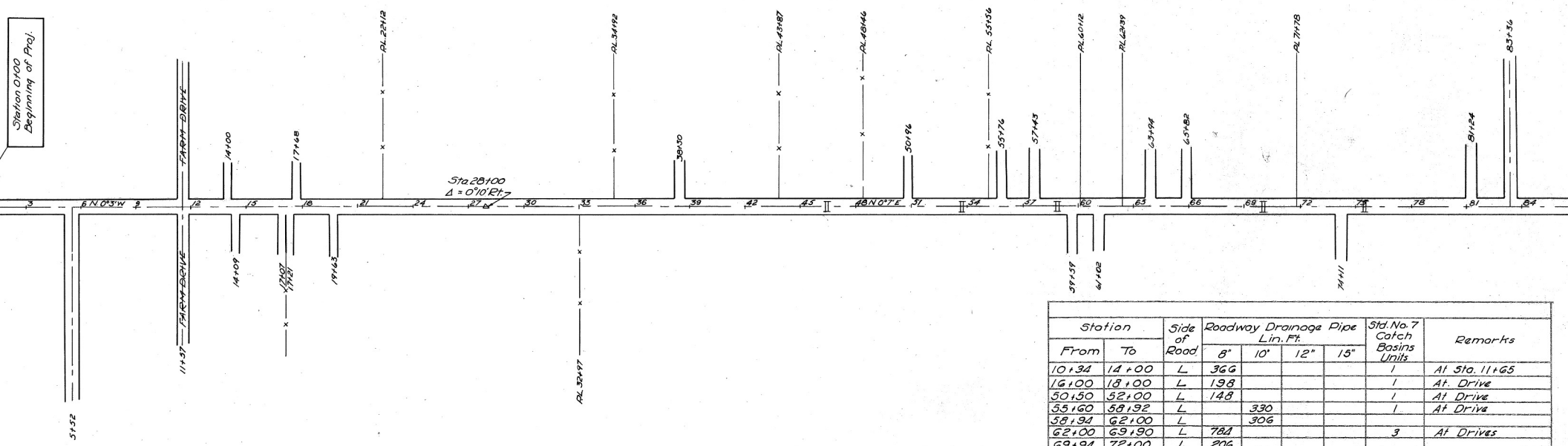
SH. 25
MEDINA

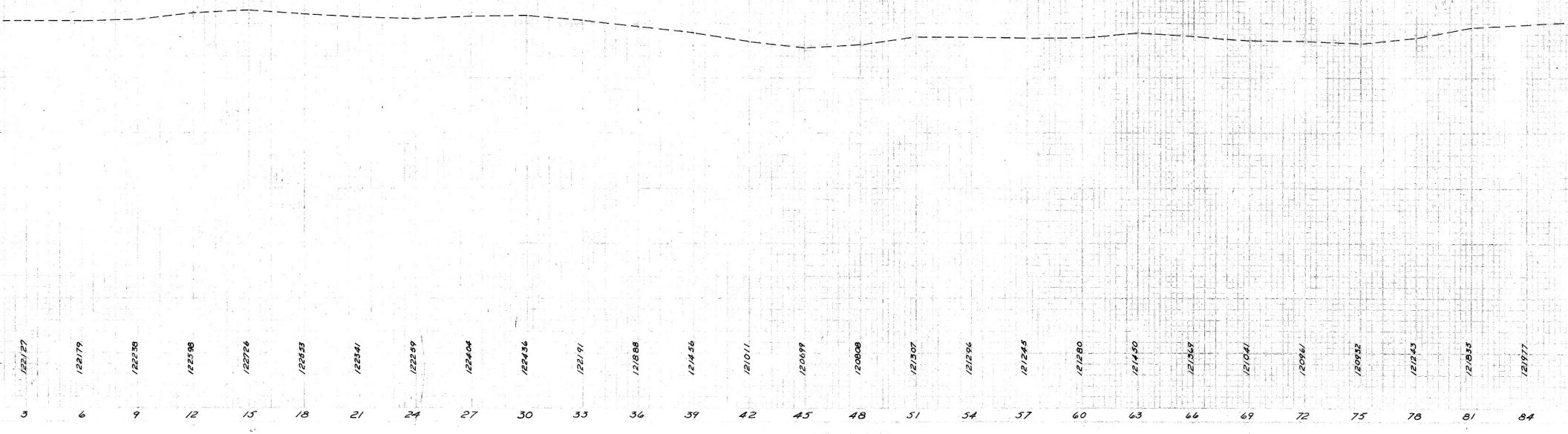


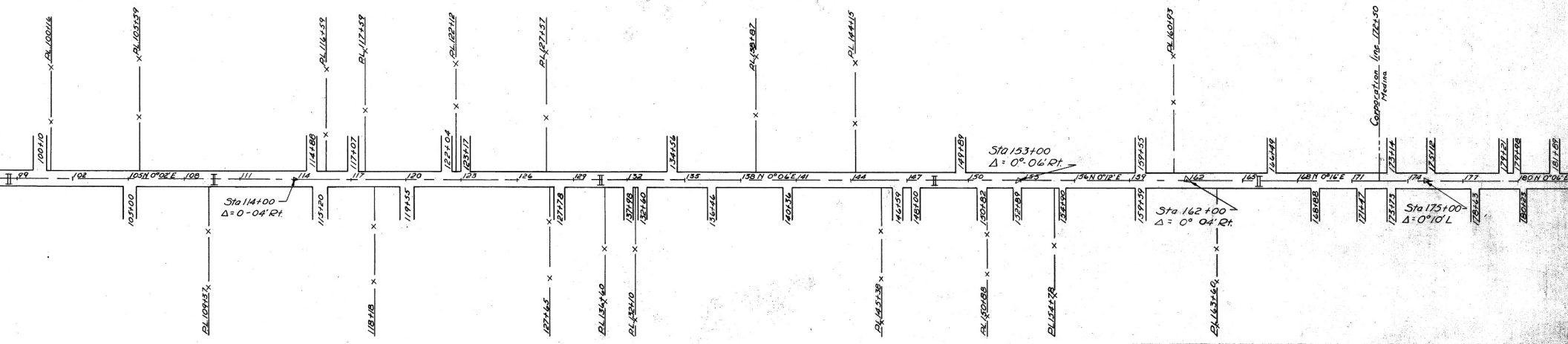
Station		Side of Road	Roadway Drainage Pipe Lin. Ft.				Std. No. 7 Catch Basins Units	Remarks
From	To		8"	10"	12"	15"		
10+34	14+00	L	366				1	At Sta. 11+65
16+00	18+00	L	198				1	At. Drive
50+50	52+00	L	148				1	At Drive
55+60	58+92	L		330			1	At Drive
58+94	62+00	L		306				
62+00	69+90	L	784				3	At Drives
69+94	72+00	L	206					
78+00	83+00	L				496	2	At Drives
93+00	94+00	L			100			
		Totals	1702	636	100	496	9	

SCALE

PLAN	1" = 300'
PROFILE (HORIZ)	1" = 300'
PROFILE (VERT)	1" = 30'

NOTE
℄ Grade of new pavement to be approximately 2" above existing pavement



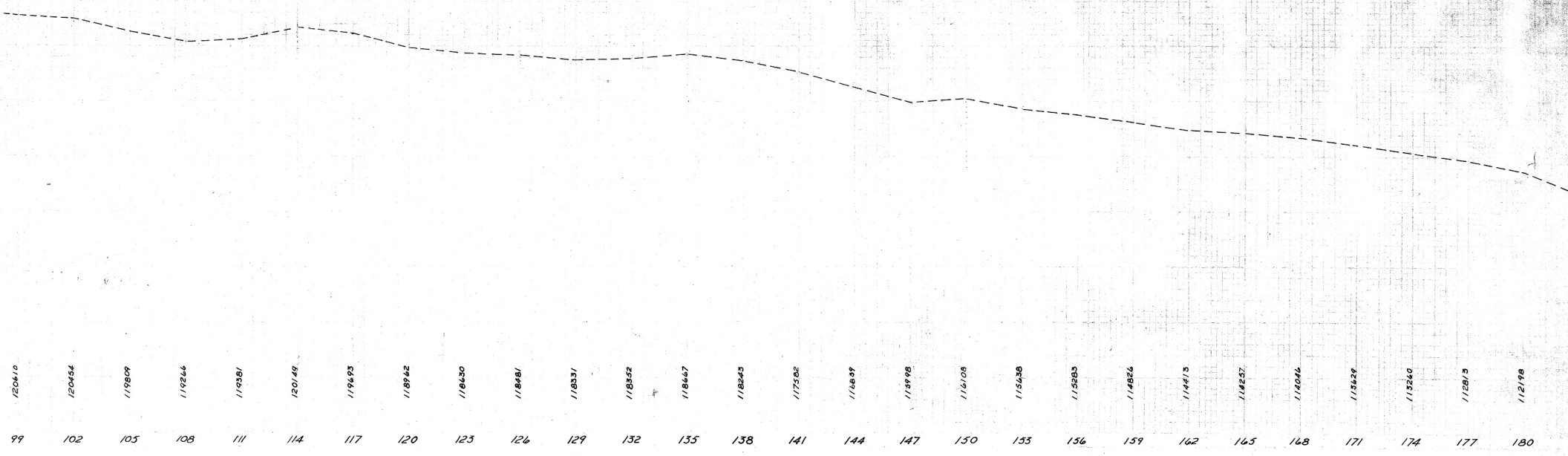


Station		Side of Road	Roadway Drainage Pipe L.in. Ft.				Std. No. 7 Catch Basins Units	Rem
From	To		8"	10"	12"			
133+00	136+00	L	298				1	At Driv
139+00	148+64	L			964			
148+70	150+50	L	180					
150+50	161+00	L		1048			1	At Driv
166+00	168+00	L	198				1	At Driv
172+50	178+50	L			594		3	At Driv
	Totals		676	1048	1558		6	

SCALE

PLAN	1" = 300'
PROFILE (HORIZ)	1" = 300'
PROFILE (VERT)	1" = 30'

NOTE
℄ Grade of new pavement to be approximately 2" above existing pavement

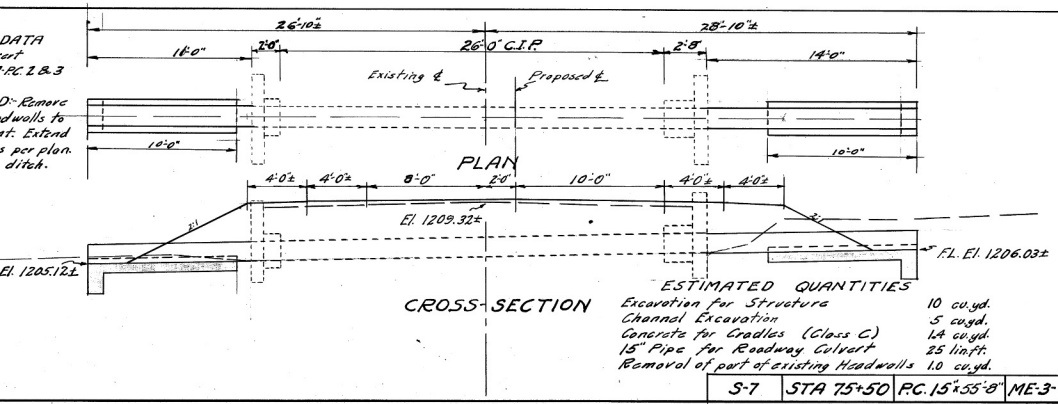


10	OHI

S.H. 25
MEDINA

DATA
...ert
...P.C. 2 & 3

D:- Remove
...dwalls to
...nt. Extend
...s per plan.
...ditch.



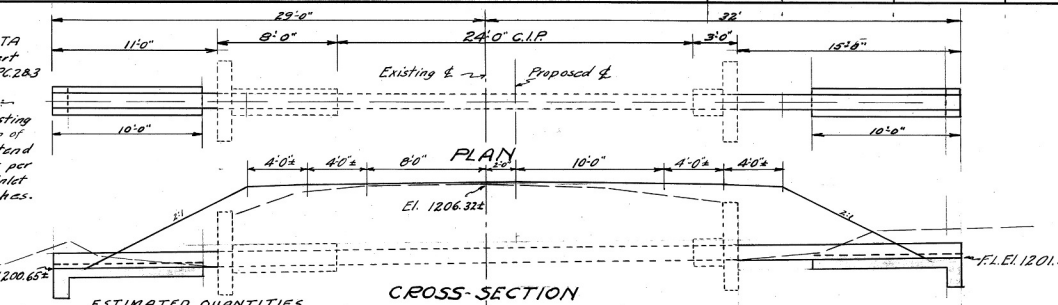
ESTIMATED QUANTITIES

Excavation for Structure	10 cu.yd.
Channel Excavation	5 cu.yd.
Concrete for Cradles (Class C)	1.4 cu.yd.
15" Pipe for Roadway Culvert	25 lin.ft.
Removal of part of existing Headwalls	1.0 cu.yd.

S-7	STA 75+50	P.C. 15"×55'-8"	ME-3-

TA
...rt
...P.C.2&3

...sting
...of
...tend
...per
...nlet
...hes.

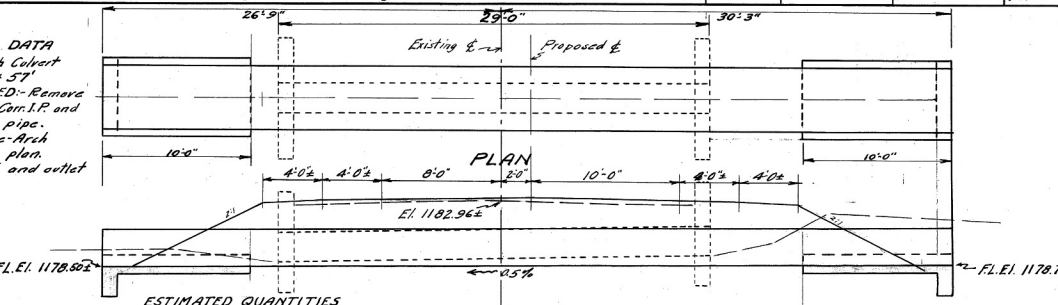


ESTIMATED QUANTITIES

Excavation for Structure	10 cu.yd.
Channel Excavation	10 cu.yd.
Concrete for Cradles (Class C)	1.2 cu.yd.
12" Pipe for Roadway Culvert	26 lin.ft.
Removal of part of existing Headwalls	0.5 cu.yd.

S-8	STA. 98+52	P.C. 12"×61'	ME-3-

DATA
...h Culvert
... 57'
ED:- Remove
...Corr. I.P. and
... pipe.
...e-Arch
... plan.
... and outlet



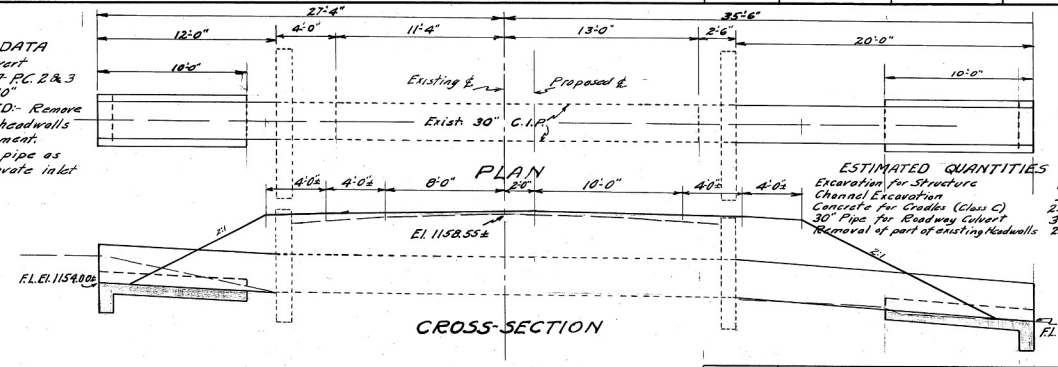
ESTIMATED QUANTITIES

Excavation for Structure	60 cu.yd.
Channel Excavation	10 cu.yd.
Concrete for Cradles (Class C)	2.8 cu.yd.
52"×30" Pipe-Arch for Roadway Culvert	57 lin.ft.
Removal of existing Headwall	3.0 cu.yd.
Remove and Store existing 24" Corr. I.P.	29 lin.ft.

S-10	STA 130+43	P.C. 52"×30"×57'	ME-3-

DATA
...vert
...P.C. 2 & 3
...0"

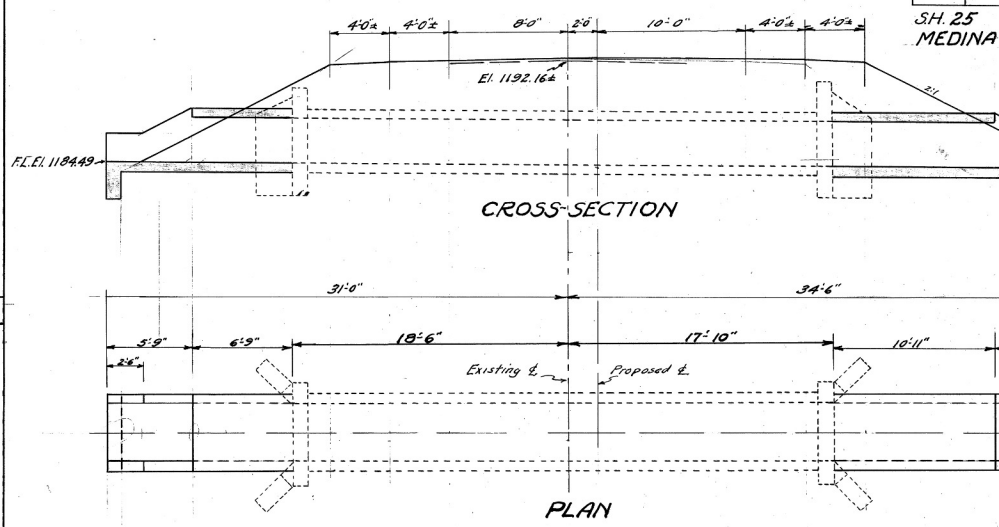
D:- Remove
...headwalls
...ment.
... pipe as
...vate inlet



ESTIMATED QUANTITIES

Excavation for Structure	10 cu.yd.
Channel Excavation	5 cu.yd.
Concrete for Cradles (Class C)	2.7 cu.yd.
30" Pipe for Roadway Culvert	32 lin.ft.
Removal of part of existing Headwalls	2.0 cu.yd.

S-11	STA 148+64	P.C. 30"×62'-10"	ME-3-

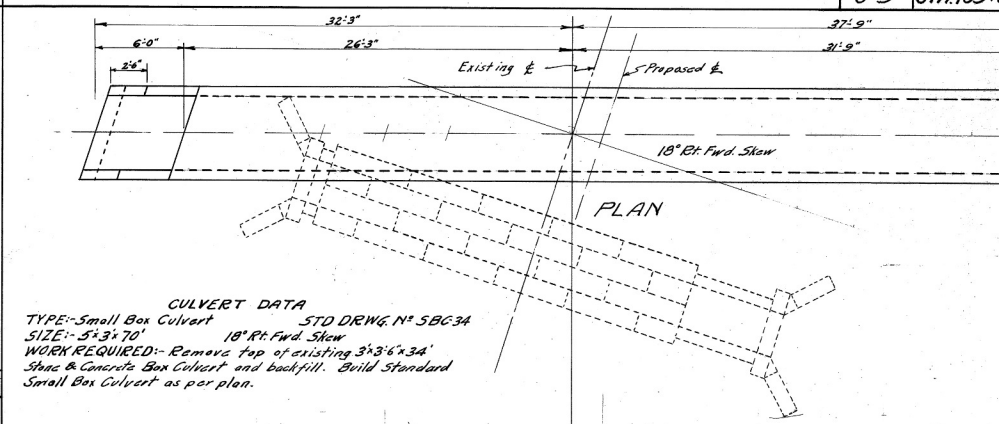


CULVERT DATA

TYPE:- Small Box Culvert STD. DRWG. No. SBC-34
SIZE:- 4'×3'×65'-6"
WORK REQUIRED:- Remove top of existing headwalls to top of slab and wings to bottom of new lower slab. Extend existing box as per plan.

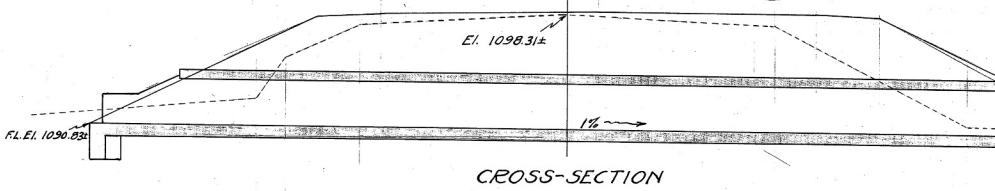
ESTIMATED
Excavation for Str
Concrete for Structu
Reinforcing Steel
Dowel Holes
Removal of part of exist
Channel Excavation

S-9	STA. 109+		



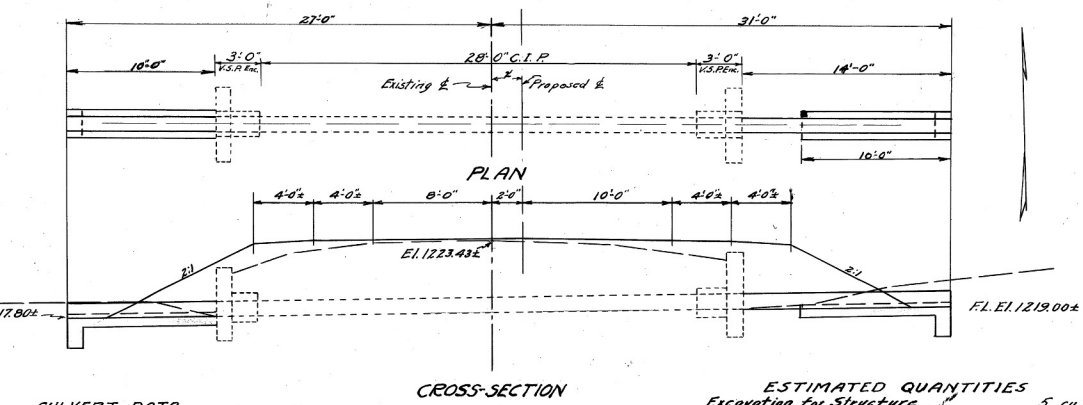
CULVERT DATA

TYPE:- Small Box Culvert STD DRWG. No. SBC-34
SIZE:- 5'×3'×70' 18° Rt. Fwd. Skew
WORK REQUIRED:- Remove top of existing 3'×3'-6"×34' Stone & Concrete Box Culvert and backfill. Build Standard Small Box Culvert as per plan.



ESTIMATED
Excavation for Stru
Channel Excavation
Concrete for Structu
Reinforcing Steel
Removal of part of Exis

S-12	STA 186+85		

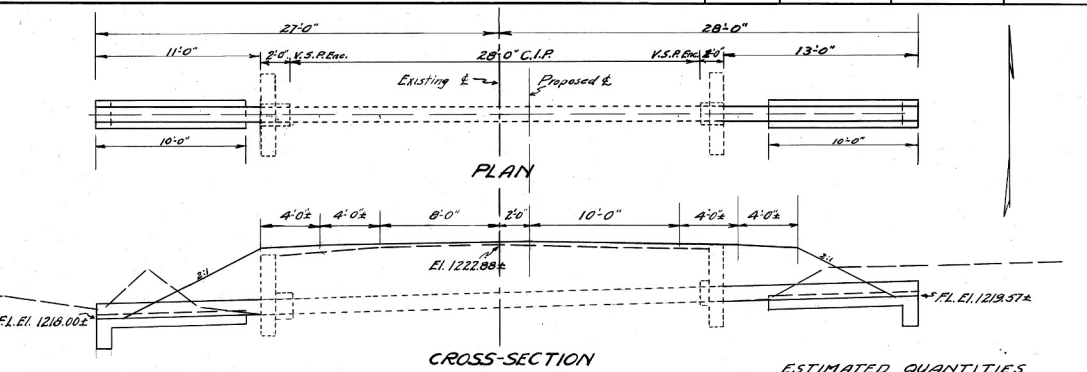


CULVERT DATA
STD. DRWG. Nº S-27 P.C. 2&3.
...lvert
...RED:- Remove top of existing headwalls ...sement. Extend existing pipe as per ...e inlet and outlet ditches.

ESTIMATED QUANTITIES

Excavation for Structure	5 cu.yd.
Channel Excavation	10 cu.yd.
Concrete for Cradles (Class C)	1.2 cu.yd.
12" Pipe for Roadway Culvert	24 lin.ft.
Removal of part of existing Headwalls	0.5 cu.yd.

S-1	STA 10+17	P.C. 12"x 58'	ME-3-

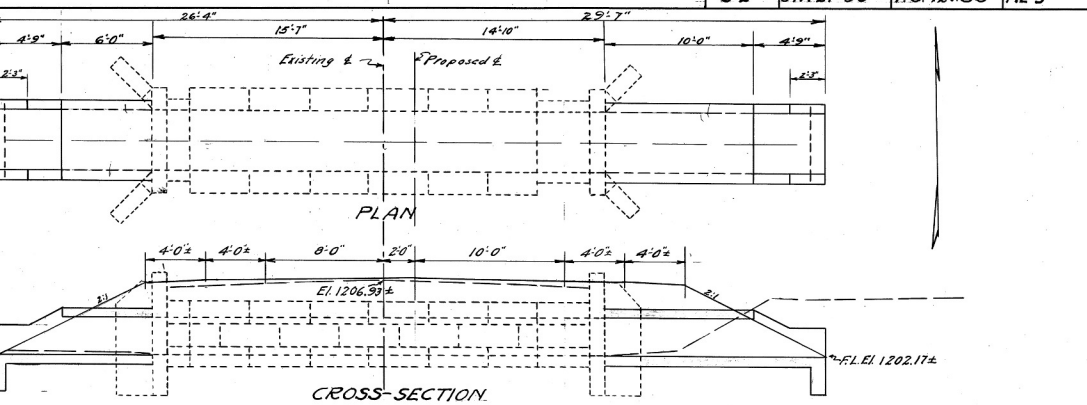


CULVERT DATA
STD. DRWG. Nº S-27 P.C. 2&3
...lvert
...RED:- Remove top of existing headwalls to top ...e. Extend existing pipe as per plan. ...and outlet ditches.

ESTIMATED QUANTITIES

Excavation for Structure	10 cu.yd.
Channel Excavation	10 cu.yd.
Concrete for Cradles (Class C)	1.2 cu.yd.
12" Pipe for Roadway Culvert	24 lin.ft.
Removal of part of existing Headwalls	0.5 cu.yd.

S-2	STA 21+90	P.C. 12"x 55'	ME-3-



CULVERT DATA
...x Culvert
STD. DRWG. Nº SBC34
...56'-11"
...RED:- Remove top of existing headwalls and ...f existing slab. Extend existing box ... plan. Excavate inlet ditch.

ESTIMATED QUANTITIES

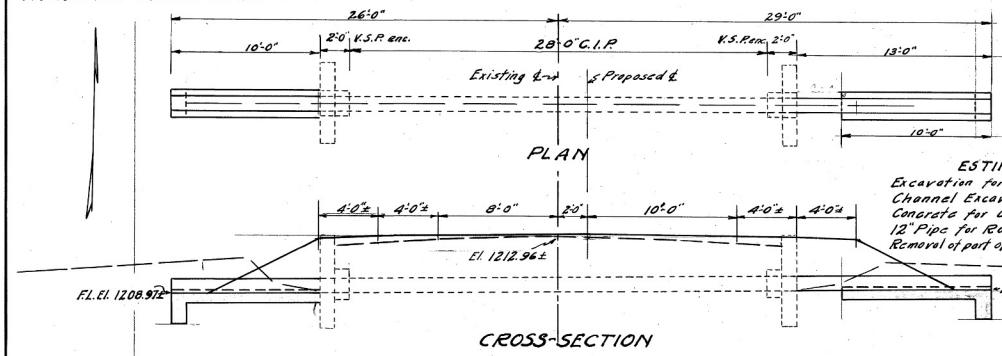
Excavation for Structure	20 cu.yd.
Channel Excavation	5 cu.yd.
Concrete for Structure (Class C)	9.2 cu.yd.
Reinforcing Steel	960 lb.
Dowel Holes	28 lin.ft.
Removal of Part of existing Headwalls and Wings	1.5 cu.yd.

S-3	STA. 46+31	S.B.C. 4'x2'6"x56'-11"	ME-3-

FED. RD. DIST. NO.	STA
10	OH

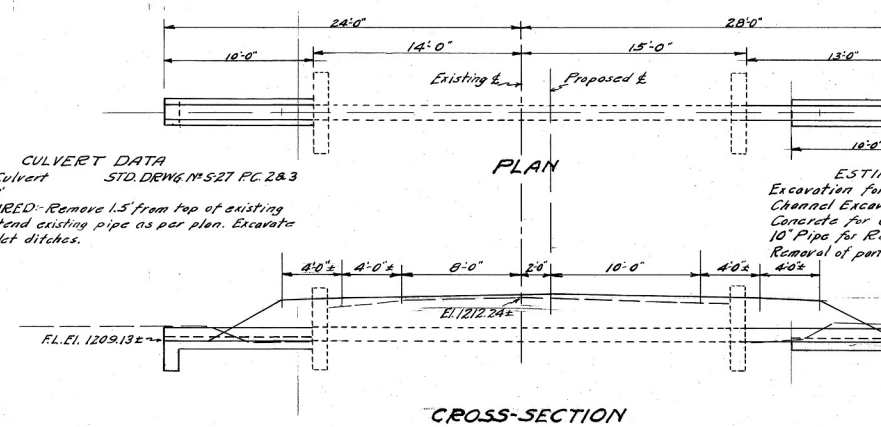
S.H. 25
MEDINA

CULVERT DATA
TYPE:- Pipe Culvert
STD. DRWG. Nº S-27 P.C. 2&3
SIZE:- 12" x 55'
WORK REQUIRED:- Remove top of existing headwalls to top of encasement. Extend existing pipe as per plan. Excavate inlet and outlet ditches



ESTI...
Excavation for ...
Channel Excav...
Concrete for ...
12" Pipe for Ro...
Removal of part o...

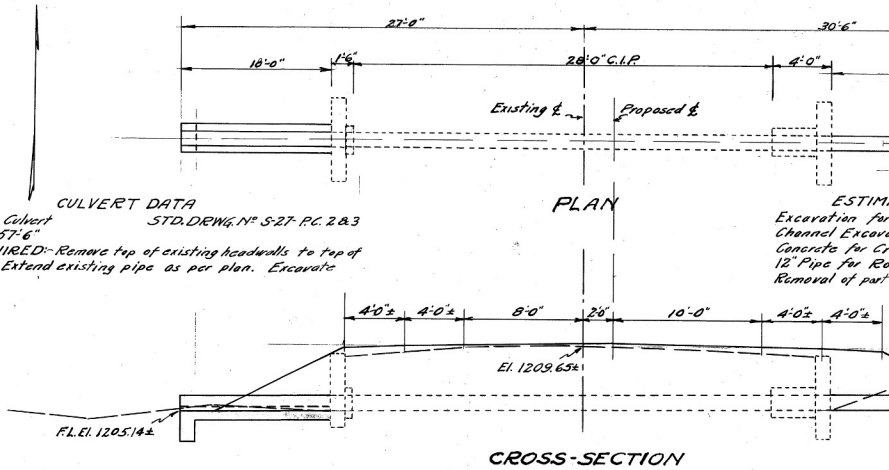
S-4	STA 53+...



CULVERT DATA
TYPE:- Pipe Culvert
STD. DRWG. Nº S-27 P.C. 2&3
SIZE:- 10" x 52'
WORK REQUIRED:- Remove 1.5' from top of existing headwalls. Extend existing pipe as per plan. Excavate inlet and outlet ditches.

ESTI...
Excavation for ...
Channel Excav...
Concrete for ...
10" Pipe for R...
Removal of par...

S-5	STA 58+...



CULVERT DATA
TYPE:- Pipe Culvert
STD. DRWG. Nº S-27 P.C. 2&3
SIZE:- 12" x 57'-6"
WORK REQUIRED:- Remove top of existing headwalls to top of encasement. Extend existing pipe as per plan. Excavate inlet ditch.

ESTIM...
Excavation for ...
Channel Excava...
Concrete for C...
12" Pipe for Ro...
Removal of part ...

S-6	STA 69+...

FED. RD. DIST. NO.	STATE
	OHIO

S.H. 25 S
MEDINA

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

CLEVELAND-WOOSTER ROAD

S.H. 25 SEC. S & MEDINA (PT)

MEDINA COUNTY

MONTVILLE TOWNSHIP AND VILLAGE OF MEDINA

NET LENGTH OF PROJECT = 19083.75 LIN FT. OR 3.614 MILES

CONVENTIONAL SIGNS

WNSHIP LINE
CTION LINE
Y OR VILLAGE LINE
OPERTY LINE
NTER LINE
LE LINE
NCE
ARD RAIL
EAM RAILROAD
OPOSED TREES
STING TREES

LINE DATA

GIN PROJECT	STA. 0+00
D PROJECT	STA. 190+83.75
ADDITION OR DEDUCTIONS	
T LENGTH	19083.75 LIN.FT. OR 3.614 MILES

INDEX OF SHEETS

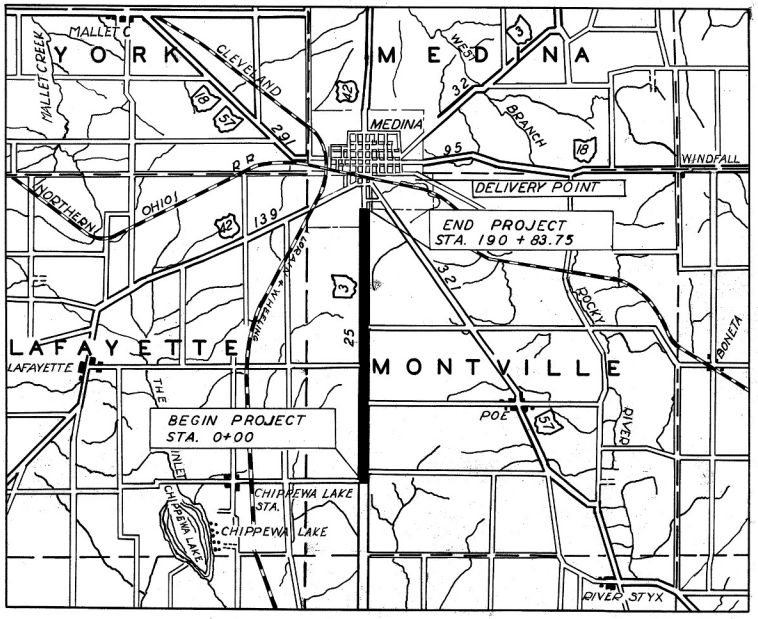
TE SHEET	SHEET 1
PICAL SECTIONS	2
AN	3&4
MMARIES	2

TANDARD CONSTRUCTION DRAWING

DRWG.	DATE
G-7.07	10-1933
I-1,2,3,4&5	3-1-39
I-8 C.B. Nº 7	3-1-39

UPPLEMENTAL SPECIFICATIONS

NONE



AVERAGE HAUL 2.8 MILES

LOCATION PLAN

PORTION TO BE IMPROVED
STATE HIGHWAYS
OTHER ROADS

SCALES

PLAN 1" = 300'

THE STANDARD SPECIFICATIONS OF THE STATE O
DEPARTMENT OF HIGHWAYS INCLUDING CHANGES AND
SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPO
SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE T
THE MAKING OF THIS IMPROVEMENT WILL NOT REQ
THE CLOSING TO TRAFFIC OF THE HIGHWAY.

THE RIGHT OF WAY NECESSARY FOR THIS IMPROVEM
WILL BE PROVIDED BY THE STATE OF OHIO

APPROVED Vance T. Grimes
DATE 3/3-41 RESIDENT DIVISION DEPUTY DIRECTOR

APPROVED _____
DATE _____ CHIEF ENGINEER, BUREAU OF MAINTENANC

APPROVED Murray D. Shaffer
DATE 4-30-41 CHIEF ENGINEER, LOCATION & RIGHT OF WA

APPROVED G. B. Bogue
DATE 5-3-41 FIRST ASST. DIRECTOR & CHIEF ENGINEE

APPROVED H. S. Evans
DATE 5/3/41 DIRECTOR OF HIGHWAYS

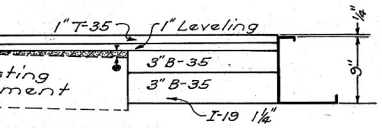
APPROVED FOR THE CITY OF MEDINA
_____ DIRECTOR OF PUBLIC SERVICE
DATE _____ 19

CONSTRUCTION BUREAU
AUG 30 1955
GROUND PHOTOLAB

25 S & MEDINA (PT)
LETTING _____
CT NO. _____

FED. RD. DIST. NO.	STATE
	OHIO

SH. 25
MEDINA

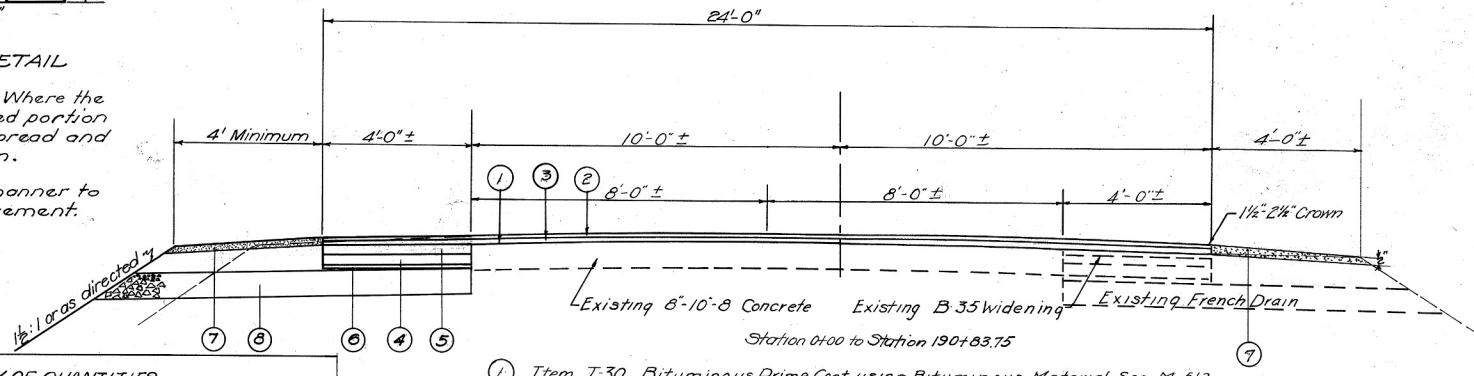


FORM AND COURSE DETAIL

depth to be not less than ½". Where the on ● exceeds 1", the shaded portion veling course shall be spread and ed in a separate operation.

ms shall be braced in a manner to lateral and vertical movement.

TYPICAL SECTION
TYPE T-35



(1) Item T-30 Bituminous Prime Coat using Bituminous Material Sec M-5.12 AE.3 at the rate of not more than 0.15 Gals. per sq.yd.

(2) Item T-35 1" Asphaltic Concrete Surface Course Type "B"

(3) Item B-35 1" Minimum Asphaltic Concrete Leveling Course

(4) Item B-35 3" Asphaltic Concrete 1st Base Course

(5) Item B-35 3" Asphaltic Concrete 2nd Base Course

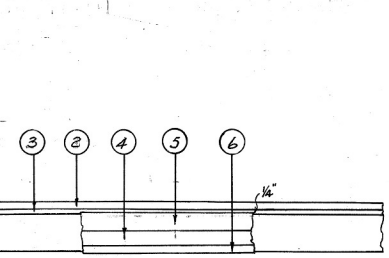
(6) Item I-19 1¼" Insulation Course

(7) Item I-17 Aggregate for Berm Material

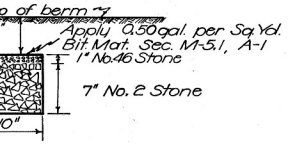
(8) Item I-9 10"x8" Stone Underdrain (French Drain) No. 2

SUMMARY OF QUANTITIES

UNIT	DESCRIPTION
	ROADWAY
Cu.Yds.	Roadway Excavation (Unclassified)
Cu.Yds.	Borrow (Contractor to Furnish)
Sq.Yds	Removal and disposal of existing pavement
Lin.Ft.	Sealing only of existing pavement edge
Cu.Yds	Aggregate for berms
Lin.Ft.	8" Pipe for Roadway Drainage
Lin.Ft.	10" " " " "
Lin.Ft.	12" " " " "
Lin.Ft.	15" " " " "
Units	No. 7 Catch Basins
Lin.Ft.	10"x8" Stone Underdrain (French Drain) No. 2
	PAVEMENT
Cu.Yds	Asphaltic Concrete Leveling Course
Cu.Yds	Asphaltic Concrete Base Courses
Sq.Yds	1¼" Insulation Course
Gal.	Bituminous Prime Coat using Bit. Mat. Sec. M-5.12 A.E.3 at the rate of not more than 0.15 Gal. per Sq.Yd.
Cu.Yds.	Asphaltic Concrete Surface Course Type "B"



PAVEMENT REPLACEMENT



NE UNDERDRAIN

CALCULATIONS

Line No.		Amt.	Unit
1	NET LENGTH OF PROJECT		
2	Sta. 0+00 to Sta. 190+83.75 = 19083.75 Lin Ft. or 3.614 Mi.	use 3.614	Mi
3	Item E-8 REMOVAL AND DISPOSAL OF EXISTING PAVEMENT		
4	Estimated 50 Sq.yds per Mi. = 3.614 x 50 = 180.7	Use 180	Sq.yd
5	Item E-10 SEALING ONLY OF EXISTING PAVEMENT EDGE		
6	See line 2 19083.75' + 361' (Pav't Replace) = 19444.75'	use 19445	Lin.Ft.
7	Item I-17 AGGREGATE FOR BERM MATERIAL		
8	See line No 2 = 19083.75 Lin.Ft.		
9	19083.75 Lin.Ft. x 10'(Ave.) x 1667 ÷ 27 = 1178.2	use 1178	Cu.Yds
10	Item T-30-BITUMINOUS PRIME COAT		
11	See line No 2 = 19083.75 Lin.Ft.		
12	19083.75 Lin.Ft. x .16 ÷ 9 x 0.15 = 5089.0	use 5089	Gal.
13	Item T-35 1" ASPHALTIC CONCRETE SURFACE COURSE TYPE "B"		
14	See line No 2 = 19083.75' x 24 ÷ 9 x .0278 = 1414.74 Cu.Yds.		
15	Add for Intersections 28.44 Cu.Yds		
16	1443.18	use 1444	Cu.Yds
17	Item B-35 1" ASPHALTIC CONCRETE LEVELING COURSE		
18	See line No 2 = 19083.75 Lin.Ft. x 24 ÷ 9 x .0278 = 1414.74		
19	Add for reducing Excessive Crown 150 Cu.Yds per mi = 150 x 3.614 542.1		
20	1956.84	use 1957	Cu.Yds
21	Item B-35-3" ASPHALTIC CONCRETE 1st. BASE COURSE		
22	See line No 2 19083.75 x 4 ÷ 9 = 8481.7 Sq.Yds. + 180.7 (Pav't Replace) =		
23	8662.4 x .0833 = 721.6 Cu.Yd.	use 722	Cu.Yds
24	Item B-35-3" ASPHALTIC CONCRETE 2nd BASE COURSE		
25	Same as 1st base course	use 722	Cu.Yds
26	Item I 19 1¼" INSULATION COURSE		
27	See line No 22 8481.7 + 180.7 = 8662.4 Sq.Yds.	use 8663	Sq.Yds
28	10"x8" STONE UNDERDRAINS (FRENCH DRAIN) NO. 2		
29	(placed as directed by the Engineer)		
30	Estimated 400' per mile	use 1450	Lin.Ft.
31			
32	EXCAVATION (Unclassified)		
33	Estimated	2000	Cu.Yds.
34			
35	BORROW		
36	Estimated	3000	Cu.Yds
37			
38			
39			

GENERAL NO

EMBANKMENT
Watering Embankments, Density R
Benching, as referred to in Sec.
specifications, will not be req
SHOULDERS AND SLOPES
Item E-1, Roadway Excavation a
shall include the thorough compa
and the final operations of groo
finish the Shoulders and Slopes t
lines indicated on the Typical Sec
and fine hand grading will not b
COMPACTION OF SUBGRADE
Loosening and watering of su
ing to Sec. E-1.11 will not be req
requirements can be met by
WIDENING
In general, the widening on this p
as shown on the Typical Sections.
widening may be placed on one
direction of the engineer. Wide
placed in widths less than one f

TRAFFIC
Traffic shall be maintained at all times to the satisfaction of
items of maintaining traffic shall include lights, signs, barricades,
the unimpeded flow of traffic (24) twenty four hours daily.
PROFILE
The profile of the Asphaltic Concrete Surface Course shall be
above that of the existing pavement.
PAVEMENT REMOVAL
Any broken or defective areas as designated by the Engineer
disposed of as per item E-8, Pavement replacement shal
Insulation Course, Item B-35 base course, materials to be p
as indicated on the typical section.

SANDING
Bituminous prime coat Item T-30 of Bituminous Material Sec.
by distributor or by broom at the rate of not more than
sand cover at the rate of from 4 to 7 lbs. per sq.yd. After
has been applied all material not required to give a uni
surface shall be swept into all cracks and open join
is placed. Payment for sand cover is included in price bid per gallon for bi
PAVEMENT
The designed depths of the Asphaltic Concrete courses s
subject to adjustment according to the ratio of volum
in the general specifications.
PRIME COAT
The necessity for using prime coat, Item T-30, and the amou
mined by the engineer. The contractor shall not order materials for this
PAVEMENT-REMOVAL
Special care shall be observed in removing portions o
that the remaining edges will not be damaged. Should
damage be done to the edges of the old pavement it sh
contractor at his own expense

LEVELING COURSE
All B-35 Asphaltic Concrete Leveling Course Material necessary
of intersecting road approaches shall be taken from extra quant
of excessive crown (See line No 19 of Calculations.)

I-17 MATERIALS
I-17 Material, placed on berms, shall be compacted with a standard
than 5 tons

FORMS
Side forms set to line and grade established by th
required where base widening is involved.
EARTHWORK
All suitable material resulting from Roadway Excav
be used to construct the Roadway Shoulders a
Typical Section.