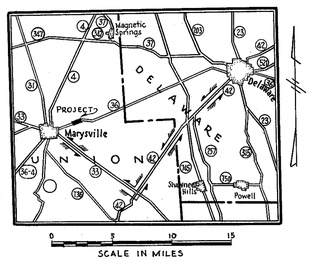
| FED. RD. DIVISION | STATE | PROJECT | TYPE FUNDS |
|---|---|---|---|
| 2 | OHIO | F-982(1) | POST WAR |

1/45

F-982 (1)

UNI-36-(12.77-13.03)

File F 3



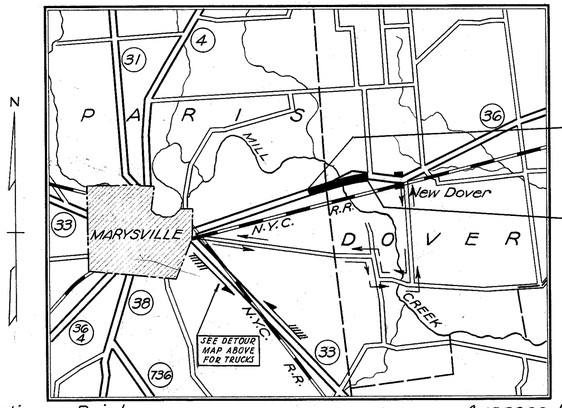

**TRUCK DETOUR MAP**

For passenger vehicle detour see Location Plat.

# STATE OF OHIO
# DEPARTMENT OF HIGHWAYS
# UNI-36-(12.77-13.03)
# UNION COUNTY
# PARIS & DOVER TOWNSHIPS

## LINE DATA

BEGIN PROJECT STA. 96+00
END PROJECT STA. 144+50
GROSS LENGTH OF PROJECT = 4850.0 LIN. FT.
DEDUCTIONS AND ADDITIONS = NONE.
NET LENGTH OF PROJECT = 4850 LIN. FT. OR 0.918 MILE.
ADD FOR LENGTH OF WORK
STA. 95+00 to STA. 96+00 = 100 LIN. FT.
STA. 144+50 to STA. 145+00 = 50 LIN. FT.
TOTAL LENGTH OF WORK = 5000.0 LIN. FT. OR 0.946 MILE




Delivery Point New Dover

**LOCATION PLAT**

Average Haul 0.85 Miles.

0 1 2 3
SCALE IN MILES

The Standard Specifications of the State of Ohio Department of Highways including changes and Supplemental Specifications listed in the proposal shall govern this improvement.

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

The right of way for this improvement will be provided by the State of Ohio.

APPROVED _____
DATE 3-7-50 RESIDENT DIVISION DEPUTY DIRECTOR
APPROVED _____
DATE _____ CHIEF ENG'R. BUREAU OF MAINTENANCE
APPROVED _____
DATE 3-23-50 CHIEF ENG'R. BUREAU OF BRIDGES & R.R. CROSSINGS
APPROVED _____
DATE 3-24-50 CHIEF ENG'R. BUREAU OF LOCATION & DESIGN
APPROVED _____
DATE 3-24-50 FIRST ASS'T. DIRECTOR & CHIEF ENGINEER
APPROVED _____
DATE 3-24-50 DIRECTOR OF HIGHWAYS

## CONVENTIONAL SIGNS

COUNTY LINE
TOWNSHIP LINE
SECTION LINE
CENTER LINE 120 121
PROPERTY LINE P/L
CITY OR VILLAGE LINE
FENCE LINE
STEAM RAILROAD
POLE LINE

TRUCK DETOUR SHOWN THUS
PORTION TO BE IMPROVED
PASSENGER CAR DETOUR SHOWN THUS
STATE HIGHWAYS
COUNTY ROADS
PLAN 1" = 50'
PROFILE VERTICAL 1" = 5'
PROFILE HORIZONTAL 1" = 50'
CROSS SECTIONS 1" = 5'

## INDEX OF SHEETS


| | |
|---|---|
| TITLE SHEET | 1 |
| TYPICAL SECTION | 2 |
| GENERAL NOTES | 3 |
| SUMMARY | 4 |
| PLAN AND PROFILE | 5-12 |
| CROSS-SECTIONS | 13-33 |
| DETAIL SHEET | 34 |
| SUPER-ELEVATION TABLE | 35 |
| SPECIAL CROSS-SECTIONS | 36 |
| CHANNEL CROSS-SECTIONS | 37 |
| CULVERTS UNDER 20' SPAN | 38-39 |
| APPROACH SLABS. | 40 |
| BRIDGE OVER 20' SPAN | 41-45 |


| SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS | | | | | |
|---|---|---|---|---|---|
| L-3 | 4-1-50 | AS-1-47, AS-2-47 | 7-27-49 | | |
| T-1,2,3,4&5 | 2-20-45 | C5B-1-47 (Sh 1&2) | 8-25-49 | | |
| S-27 P.C.-3 | 2-20-45 | L-3-A | 4-1-50 | | |
| T-15 No.1 | 3-1-47 | L-1 | 4-1-50 | | |
| T-15 No.2 | 6-17-49 | I-14-G | 2-1-47 | | |
| G-8.07 | 2-7-50 | | | | |

| SUPPLEMENTAL SPECIFICATIONS | |
|---|---|
| 5 | 5-28-48 |
| 31 | 6-13-49 |

| File No. | UNION COUNTY UNI-36-(12.77-13.03) |
|---|---|
| | DATE OF LETTING _____ |
| | CONTRACT No. _____ |


CONSTRUCTION BUREAU MAY 17 1956 GROUND PHOTOLAB


DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

RECOMMENDED FOR APPROVAL:

_____ _____
DISTRICT ENGINEER DATE

APPROVED:

_____ _____
DIVISION ENGINEER DATE

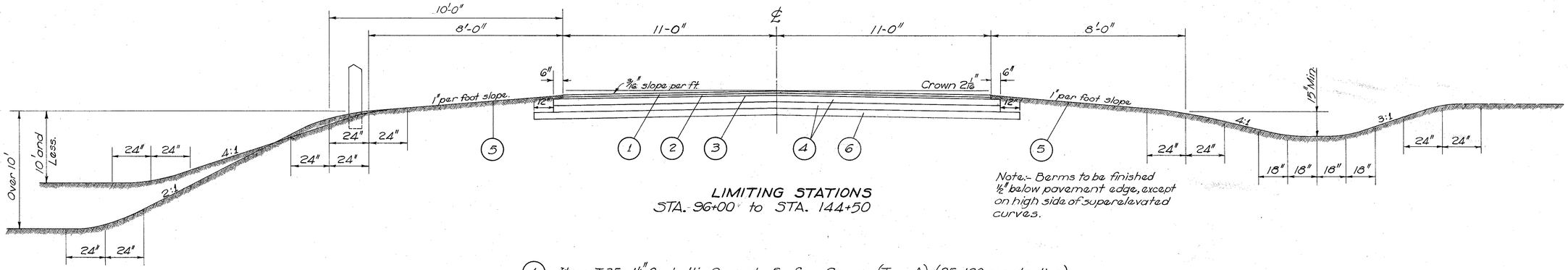
| FED. RD. DIVISION | STATE | PROJECT | TYPE FUNDS |
|---|---|---|---|
| 2 | OHIO | F-982(1) | DOST WAR |

2/45

UN-36-(12.77-13.03)

# TYPICAL SECTION

## TYPE T-35 ON B-20.




LIMITING STATIONS
STA. 96+00 to STA. 144+50

Note:- Berms to be finished ½" below pavement edge, except on high side of superelevated curves.

(1) Item T-35 1½" Asphaltic Concrete Surface Course (Type A). (85-100 penetration)

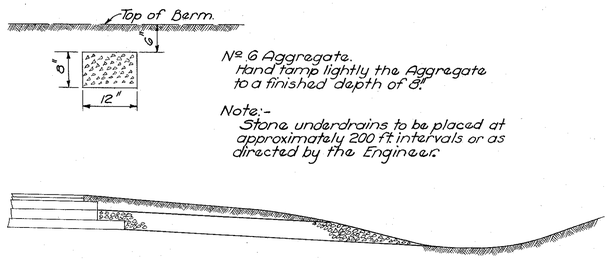
(2) Item B-35 1½" (Min. Thickness) Asphaltic Concrete Leveling Course.

(3) Item T-30 Bituminous Prime Coat. (using 0.35 gals. per sq. yd. Sec. M-5.7, RT-2 or 3).

(4) Item B-20 2-4" Waterbound Macadam Base Courses

(5) Item L-9 Seeding and Protecting, Type "A".

(6) Item SS-5 4" Classified Embankment Material Blanket Course. Grading "C" or "D" (as per plan)



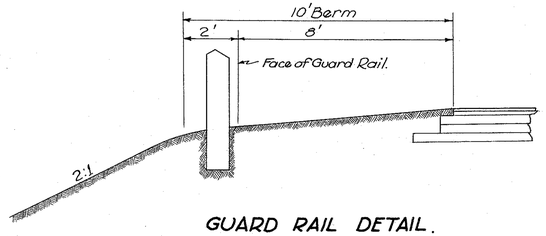

Nº 6 Aggregate.
Hand tamp lightly the Aggregate to a finished depth of 8".

Note:-
Stone underdrains to be placed at approximately 200 ft. intervals or as directed by the Engineer.

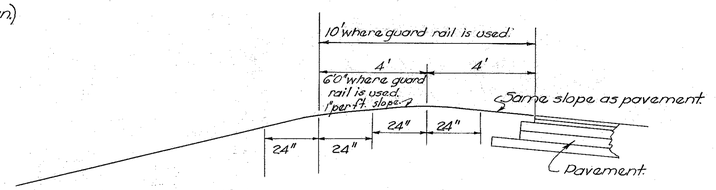


**STONE UNDERDRAINS Nº 2.**

STA. 96+00 to STA. 124+10 & STA. 126+40 to STA. 144+50
Estimated Quantities 460 Lin. Ft. Item I-9




**GUARD RAIL DETAIL.**




**DETAIL OF SHOULDER AT SUPERELEVATED SECTION.**

Note:-
Superelevated curves shall be built without crown. The crown shall be worked out of the pavement in that portion between the beginning of the transition and the point where the superelevation equals twice the crown.

| FED. RD. DIST. NO. | STATE | PROJECT | TYPE FUNDS |
|---|---|---|---|
| 2 | OHIO | F-982(1) | POST WAR |

3
45

UNI.-36-(12.77-13.03)

# GENERAL NOTES.

**Utilities:** The contractor shall notify at least 48 hours before breaking ground, all Public Service Corporations having wires, poles, pipes, conduits, manholes, or other structures that may be affected by his operations. The Public Service Corporations will do all the necessary work incidental to this improvement.

**Field Office:** The contractor shall provide a field office, having a minimum of 150 sq. ft. of floor space and shall conform with the requirements of Sec. 3-0.01(b) The contractor shall have a telephone installed & maintained during the construction of this project.

**Tree Removal:** No trees shall be removed, even though specifically marked "to be removed" on the plans, except by order of the Engineer. Where a tree may be saved by minor approved grading it shall be done. The contractor shall take extreme care not to damage the trees to be left in place.

**Location of Driveways:** The location of driveways as shown may be moved at the direction of the Engineer, provided no change in quantities is involved.

**Connecting Drains:** Existing farm drains and house connections that are cut or intercepted by the new drainage system shall be connected to the new drainage system. Connections to be made where and as directed by the Engineer.

Estimated Pipe for Connections
6 House drains @ 10'each = 60 lin.ft. total 6" I-3 pipe

**Trench Excavations:** The excavation from pipe trenches, stone underdrains, etc. not needed for backfill shall be used in the roadway embankment to reduce borrow.

**Seeding & Protecting Type "A":** Quantities for seeding item L-9 are calculated for the soil area between lines ten (10) feet outside the work limits as shown on the cross sections or to the R/W line if such line is less than ten feet from the work limits. All areas outside these limits where the vegetative growth has been injuriously disturbed or destroyed by the contractor shall be restored and seeded in accordance with the provisions of item L-9 by the contractor at his own expense.

**Commercial Fertilizer:** (10-6-4) Commercial Fertilizer shall be applied to all areas having Seeding and Sodding at the rate of 20 lbs. per 1000 square feet.

**Existing Pavement Removal:** After existing pavement has been removed (Item I-8 see sheet 4 table "M") the old roadway shall be plowed, harrowed and dragged to a smooth grade, the old ditches filled and the entire area left in a neat condition. Cost of this work shall be included in price bid for pavement removal, Item E-8. Area shall be seeded and mulched Item L-9.

**Item 88-5:** The Grading "C" the percent passing the N°.200 sieve shall be 5 to 15 and the percent passing the N°.50 sieve shall be waived. The Grading "D" the percent passing the N°.200 sieve shall be 5 to 20 and the percent passing the N°.50 sieve shall be waived.

**Guard Rail:** Guard rail shall be flared to meet bridge railing in such amanner that the change in alignment of the guard rail will not exceed one (1) in ten(10).

The existing guard rail to be removed and disposed of shall become the property of the contractor and shall be disposed of by him.

**Design Speed:-** The design speed on this project is 60 miles per hour.

| FED. RD. DIST. NO. | STATE | PROJECT | TYPE FUNDS |
|---|---|---|---|
| 2 | OHIO | F-982(1) | POST WAR |

4/45

UNI-36-(2.77-13.03)

## GUARD RAIL

| SHEET NO. | I-15 | SPECIAL REMOVE & DISPOSE |
|---|---|---|
| | LIN. FT. | LIN. FT. |
| 8 | | 416 |
| 9 | 562.5 | 1315 |
| | | |
| | | |
| RECAP | | |
| SUM | 562.5 | 1731 |

## DRAINAGE "D"

| SHEET NO. | I-9 STONE UNDER-DRAINS LIN. FT. | I-3 PIPE LIN. FT. 6" | I-3 PIPE LIN. FT. 30" | I-3 PIPE UNDER PAVT. 30" LIN. FT. | I-3 PIPE OUTLET 30" LIN. FT. | L-10 SODDING SQ. YDS. | L-10 RIPRAP SQ. YDS. | I-14 PAVED GUTTER LIN. FT. | I-4 6" PIPE UNDERDRAIN LIN. FT. | I-4 8" PIPE OUTLET LIN. FT. |
|---|---|---|---|---|---|---|---|---|---|---|
| 8 | | 175 | 247 | 20 | | 5 | 8 | | | |
| 9 | | 251 | 386 | | 20 | 16 | 5 | 15 | | |
| 2 | 460 | | | | | | | | | |
| 3 | | 60 | | | | | | | | |
| 11 | | | | | | | | | 200 | 20 |
| RECAP | | | | | | 21 | | | | |
| SUM | 460 | 486 | 633 | 20 | 20 | | 13 | 15 | 200 | 20 |

## TREES & STUMPS TO BE REMOVED

| SHEET NO. | E-9 REMOVAL OF TREES & STUMPS |
|---|---|
| 8 | 1 |
| 9 | 4 |
| 10 | 8 |
| 11 | 25 |
| | |
| RECAP | |
| SUM. | 38 |

## STRUCTURES - 20FT. SPAN & UNDER "S"

| SHEET NO. | STATION | STRUCTURE NO. | E-2 EXCAV. | S-1 CONCRETE CLASS "C" | S-24 REMOVAL OF EXISTING STRUCTURE | S-27 PIPE FOR ROADWAY CULVERT LIN. FT. | | | I-2 12" PIPE UNDER PAVEMENT | L-10 SODDING | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | CU. YDS. | CU. YDS. | LUMP | 24" | 30" | | LIN. FT. | SQ. YDS. | |
| 38 | 110+88 | UN-36-129 | 18 | 4.2 | LUMP | 70 | | | 80 | 12 | |
| 39 | 134+42 | UN-36-134 | 5 | | LUMP | | 104 | | | 18 | |
| 8 | 117+37.5 | UN-36-130 | | | LUMP | | | | | | |
| RECAP | | | | | | | | | | 30 | |
| SUM. | | | 23 | 4.2 | LUMP | 70 | 104 | | 80 | | |

## APPROACHES "A"

| SHEET NO | I-17 6" AGGREGATE SQ. YDS. | I-1 PIPE 12" LIN. FT. | E-12 REMOVAL & DISPOSAL OF LIN. FT. 8" C.I.P. | 8" |
|---|---|---|---|---|
| 6 | 212.4 | 48 | | 80 |
| 7 | 34.1 | 22 | | |
| 8 | 188.5 | 72 | 16 | |
| 9 | 250.4 | 44 | | |
| 10 | 141.8 | | | |
| 11 | 151.0 | 28 | 16 | |
| 34 | 233.4 | | | |
| | | | | |
| RECAP | | | 32 | 80 |
| CAL. | 1211.6 | | | |
| SUM. | | 214 | | |

## GENERAL SUMMARY CODE-6201

| ITEM | QUANTITY | UNIT | DESCRIPTION |
|---|---|---|---|
| | | | Roadway |
| E-1 | 17209 | Cu. Yds. | Roadway Excavation. |
| | | | |
| E-4 | 18233 | Cu. Yds. | Borrow |
| E-8 | 1593 | Sq. Yds. | Removal and Disposal of Existing Pavement, as per plan. |
| E-8 | 44 | Sq. Ft. | Removal and Disposal of Existing Sidewalk. |
| | | | |
| E-9 | 38 | Each | Removal of Trees and Stumps. |
| E-11 | 157 | M. Gals. | Water |
| E-12 | 112 | Lin. Ft. | Pipe Removed and Disposed of. (Under 15") |
| I-4 | 200 | Lin. Ft. | 6" Pipe Underdrain. |
| I-1 | 214 | Lin. Ft. | 12" Pipe for Driveways. |
| I-3 | 486 | Lin. Ft. | 6" Pipe for Roadway Drainage. |
| I-2 | 80 | Lin. Ft. | 12" Storm Sewer Under Pavement. |
| I-3 | 633 | Lin. Ft. | 30" Pipe for Roadway Drainage. |
| I-3 | 20 | Lin. Ft. | 30" Pipe Under Pavement for Roadway Drainage. |
| I-3 | 20 | Lin. Ft. | 30" Pipe Outlet for Roadway Drainage. |
| I-4 | 20 | Lin. Ft. | 8" Pipe Outlet for Underdrains. |
| | | | |
| I-9 | 460 | Lin. Ft. | Stone Underdrains, No 2. |
| I-10 | 13 | Sq. Yds. | Riprap, Type "A". |
| | | | |
| I-13 | 19 | Sq. Ft. | 4" Concrete Sidewalk. |
| I-13 | 35 | Lin. Ft. | Concrete Steps. |
| I-14 | 15 | Lin. Ft. | Paved Gutter. |
| Special | 1731 | Lin. Ft. | Removal and Disposal of Existing Guard Rail |
| I-15 | 562.5 | Lin. Ft. | Guard Rail, Steel Beam Type (Deep). |
| | | | |
| I-17 | 232 | Cu. Yds. | Side Approaches, Mail Box Turnouts and Berm Material. |
| | | | |
| L-9 | 47,707 | Sq. Yds. | Seeding and Protecting, Type "A". |
| L-9 | 4.30 | Tons | Commercial Fertilizer (10-6-4) |
| L-10 | 100 | Sq. Yds. | Sodding. |
| | | | |
| | | | Pavement |
| B-20 | 11762 | Sq. Yds. | 8" Waterbound Macadam Base Course. (2-4" Courses.) |
| T-30 | 4116 | Gals. | Bituminous Prime Coat. Sec. M-5.7 RT.-2 or 3. |
| B-35 | 630 | Cu. Yds. | Asphaltic Concrete Leveling Course. (85-100) |
| T-35 | 472 | Cu. Yds. | Asphaltic Concrete Surface Course, Type "A" (85-100) |
| SS-5 | 1418 | Cu. Yds. | Classified Embankment Material, As Per Plan |
| I-7 | 90 | Sq. Yds | Reinforced Concrete Approach Slabs, As per plan. |
| S-3 | 90 | Sq. Yds | Waterproofing, Type "C" |
| | | | Structures 20' Span and Under |
| E-2 | 23 | Cu. Yds. | Excavation for Structures |
| S-1 | 4.2 | Cu. Yds. | Concrete for Structures. Class "C" |
| S-24 | Lump | Lump | Removal of Existing Structures. |
| S-27 | 70 | Lin. Ft. | 24" Pipe for Roadway Culverts. |
| S-27 | 104 | Lin. Ft. | 30" Pipe for Roadway Culverts. |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | STRUCTURES OVER 20 FT. SPAN |
| | | | See Sheet No 42 |
| | | | |

## MISCELLANEOUS "M"

| SHEET NO. | E-8 REMOVAL OF EXISTING PAVT. SQ. YDS. | E-8 WALK REMOVED & DISPOSED OF SQ. FT. | I-13 CONCRETE WALK 4" SQ. FT. | I-13 CONCRETE STEPS LIN. FT. | L-10 SODDING SQ. YDS. | I-7 REINF. CONC. APPR. SLAB SQ. YDS. | S-3 WATERPROOFING TYPE "C" SQ. YDS. | T-35 -1½" ASPH. CONC. SURFACE CU. YDS. | B-35 -1½" ASPH. CONC. LEVELING CU. YDS. |
|---|---|---|---|---|---|---|---|---|---|
| 8 | 326 | | | | | | | | |
| 9 | 1260 | | | | | | | | |
| 10 | 7 | | | | | | | | |
| 11 | | 44 | 19 | 35 | 3 | | | | |
| 40 | | | | | | 90.0 | 90.0 | 3.7 | 3.7 |
| RECAP | | | | | 3 | | | 3.7 | 3.7 |
| CAL. | | | | | | | | | |
| SUM. | 1593 | 44 | 19 | 35 | | 90.0 | 90.0 | | |

## PAVEMENT "P"

| SHEET NO. | T-35 1½" ASPHALTIC CONC. SURF. COURSE SQ. YDS. | B-35 1½" ASPHALTIC CONC. LEVELING COURSE SQ. YDS. | B-20 8" WATERBOUND MACADAM BASE COURSE SQ. YDS. | T-30 BITUMINOUS PRIME COAT GALS. |
|---|---|---|---|---|
| 34 | 0.8 | 0.8 | 23.6 | 8 |
| | | | | |
| | | | | |
| CAL. | | | 23.6 | 8 |
| RECAP | 0.8 | 0.8 | | |

## EARTHWORKS

| SHEET NO. | E-1 EXCAV. | EMB. | EMB. +20% |
|---|---|---|---|
| 6 | 12551 | 175 | 210 |
| 7 | 1333 | 703 | 844 |
| 8 | 1154 | 5491 | 6589 |
| 9 | 280 | 12671 | 15205 |
| 10 | 47 | 6760 | 8112 |
| 11 | 1844 | 5641 | 6769 |
| | | | |
| RECAP | | | |
| SUM. | 17209 | 31441 | 37729 |

37729-17209-2287 = 18233 Cu. Yds. Borrow.
31441 x 0.005 = 157 M. Gals. Water

## RECAP

| TABLE | L-10 SODDING SQ. YDS. | E-12 REMOVAL & DISPOSAL OF 8" | 12" | C.I.P. | | T-35 -1½" ASPH. CONC. SURFACE CU. YDS. | B-35 -1½" ASPH. CONC. LEVELING C.U. YDS. |
|---|---|---|---|---|---|---|---|
| "D" | 21 | | | | | | |
| "S" | 30 | | | | | | |
| "M" | 3 | | | | | 3.7 | 3.7 |
| "A" | | 80 | | 32 | | | |
| ES * | 46 | | | | | | |
| "P" | | | | | | 0.8 | 0.8 |
| | | | | | | | |
| CAL. | | | | | | 4.5 | 4.5 |
| SUM. | 100 | 80 | | 32 | | | |
| | | Under 15" = 112 Lin. Ft. | | | | | |

* Estimated Quantities to be used at drive pipes and as directed by the Engineer.

PAVEMENT CALCULATIONS

Pavement Length - Sta. 96+00 to Sta. 123+96.65 = 2796.65 Lin. Ft.
Sta. 126+53.35 to Sta. 144+50 = 1796.65 Lin. Ft.
Total Length of Pavement = 4593.30 Lin. Ft.

B-20 8" WATERBOUND MACADAM BASE COURSE (2-4" COURSES)
4593.3 x 23 ÷ 9 = 11738.4 Sq. Yds.
Add from Table "P" 23.6 Sq. Yds.
Total B-20 11762.0 Sq. Yds.

## SEEDING

| SHEET NO. | L-9 SEEDING & PROTECTING TYPE A SQ. YDS. |
|---|---|
| 6 | 7592 |
| 7 | 3192 |
| 8 | 8157 |
| 9 | 17569 |
| 10 | 4722 |
| 11 | 6475 |
| | |
| TOTAL | 47,707 |

47707 x 9 = 429,363 Sq. Ft.
Sodding is 100 x 9 = 900 Sq. Ft.
Total Area = 430,263 Sq. Ft.
Fertilizer at rate of 20# per 1000 Sq. Ft. = 4.30 Tons.

PAVEMENT CALCULATIONS CONT'D.

T-35 1½" ASPHALTIC CONCRETE SURFACE COURSE
4593.3 x 22 x 1½ ÷ (36 x 9) = 467.8 Cu. Yds.
Add from Table "R" 4.5 Cu. Yds.
Total T-35 472.3 Cu. Yds.

B-35 1½" ASPHALTIC CONCRETE LEVELING COURSE
4593.3 x 22 x 1½ ÷ (36 x 9) = 467.8 Cu. Yds.
Add from Table "R" 4.5 Cu. Yds.
Add for filling Voids in B-20
472.3 x ⅓ = 157.4 Cu. Yds.
Total B-35 629.7 Cu. Yds.

PAVEMENT CALCULATION'S CONT'D.

I-17 SIDE APPROACHES, MAIL BOX TURNOUTS & BERM MATERIAL
From Table "A" 1211.6 Sq. Yds.
1211.6 x 6 ÷ 36 x 115% =
Total I-17 - 6" Aggregate = 232 Cu. Yds.

SS-5 4" CLASSIFIED EMBANKMENT MATERIAL BLANKET COURSE.
4593.3 x 25 x 4 ÷ (36 x 9) =
Total SS-5. 1417.7 Cu. Yds.

T-30 BITUMINOUS PRIME COAT.
4593.3 x 23 ÷ 9 = 11738.4 Sq. Yds.
11,738.4 x 0.35 = 4108 Gals.
Add from Table "P" 8 Gals.
Total T-30 = 4116 Gals.

SUMMARY

DIVISION 2 OHIO F-982(1) TYPE FUNDS POST WAR 5 45

UNI. 36 -(12.77-13.03)

SURVEY — R.R.S.

REFERENCE POINT
STA. 75+00

Sheet

Sheet

CLARENCE L. & LEONA C. RAUSCH.

N 75° 30' E

85 86 87 88 89 90 91 92 93 94 95

+63

CB

UN-36-126A

144.67 +32

112.67

1½-S.F. Res.

+79 +100

+87 P/L

+105 P/L

1½-S.F. Res.

109.4

+48

Begin

C.L.&G.A. AOERS.

CARL & IDA MODER

M.E. CARMEAN

End

8' 11' 11' 8'

Traffic Bound Macadam.
Asphaltic Concrete Surface Course

TYPICAL SECTION OF ADJOINING PAVEMENT.

No work required on this sheet.

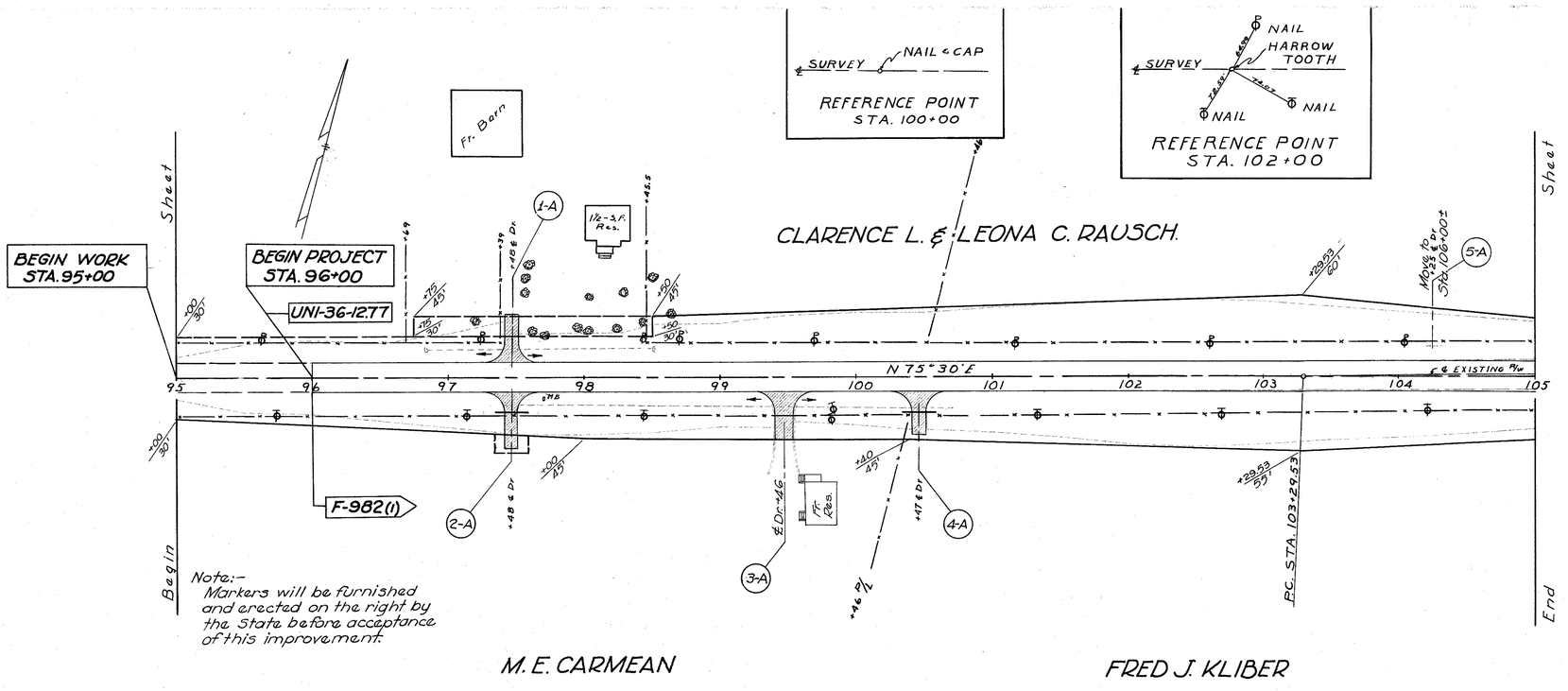
985
980
975
970

| 85 | 86 | 87 | +50 | 88 | 89 | 90 | 91 | 92 | +50 | 93 | +50 | 94 | +50 | +78 | 95 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 980.75 | 980.69 | 980.71 | 980.71 | 980.47 | 979.44 | 978.18 | 977.09 | 976.52 | 976.40 | 976.29 | 976.31 | 976.17 | 976.10 | 976.19 | 976.25 |

STA. 85+00 TO STA. 95+00

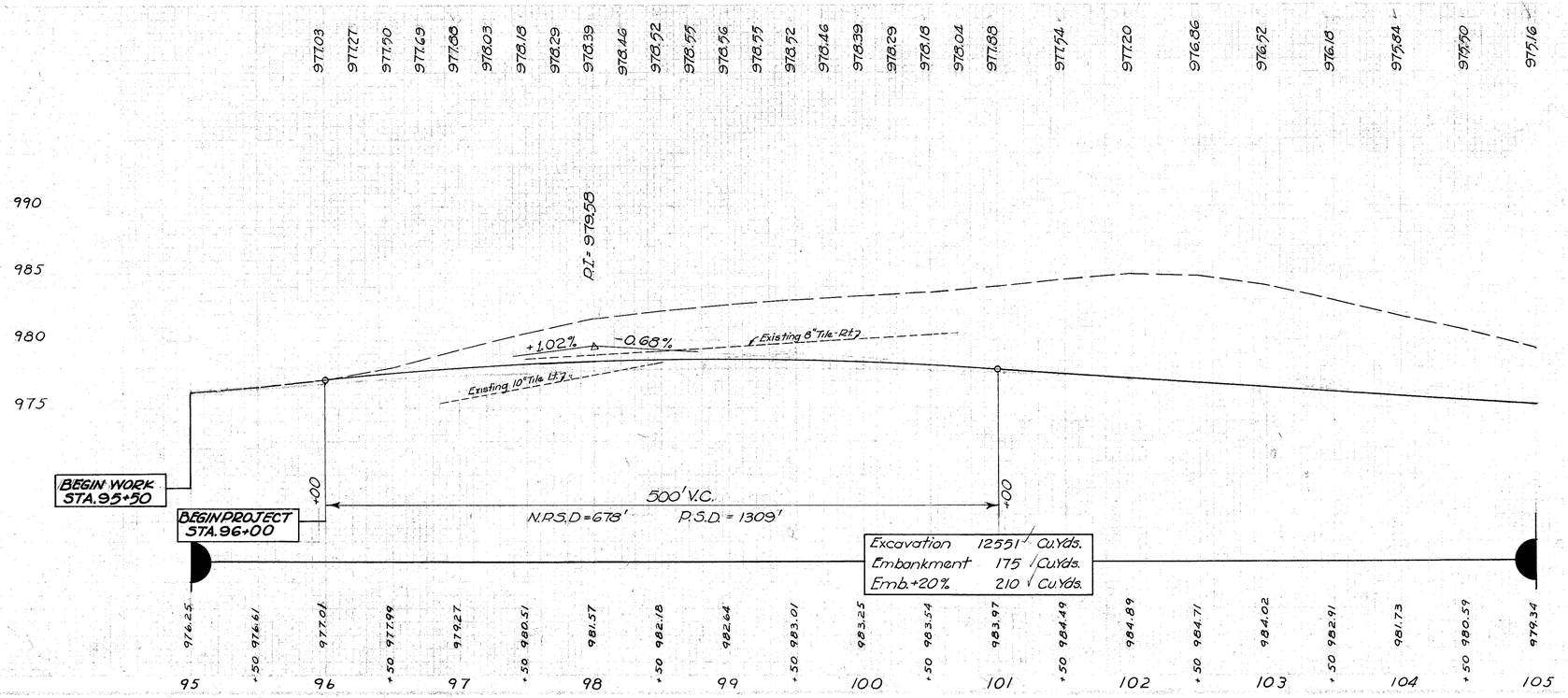
DIVISION 2 OHIO F-982(1) TYPE FUNDS POST WAR 6 45

UNI. 36 - (12.77 - 13.03)




## DRIVES

| REF. Nº | STATION | SIDE | Δ | W | L | R | I-17 6" AGG. SQ.YDS. | I-1 PIPE 12" LIN. FT. | E-12 REMOVE & DISPOSE - LIN. FT. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | 8" |
| 1-A | 97+48 | Lt. | 90 | 10 | 35 | 15 | 49.6 | | | | 80 |
| 2-A | 97+48 | Rt. | 90 | 10 | 41 | 15 | 56.3 | 24 | | | |
| 3-A | 99+46 | Rt. | 90 | 13 | 35 | 15 | 61.3 | | | | |
| 4-A | 100+47 | Rt. | 90 | 10 | 31 | 15 | 45.2 | 24 | | | |
| 5-A | 104+25 | Lt. | | | | | | | | | |
| TOTAL | | | | | | | 212.4 | 48 | | | 80 |



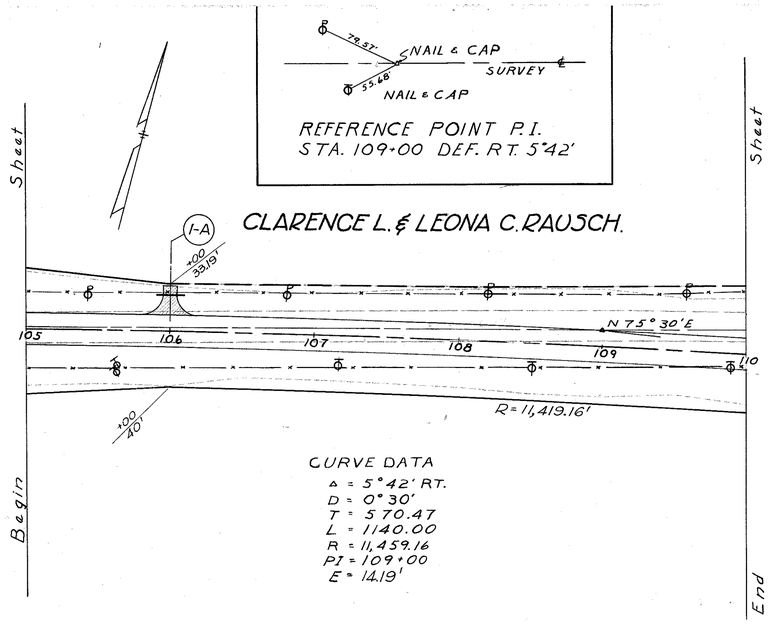

STA. 95+00 TO STA. 105+00

DIVISION 2 OHIO F-982(1) UNI. 36-(12.77-13.03)

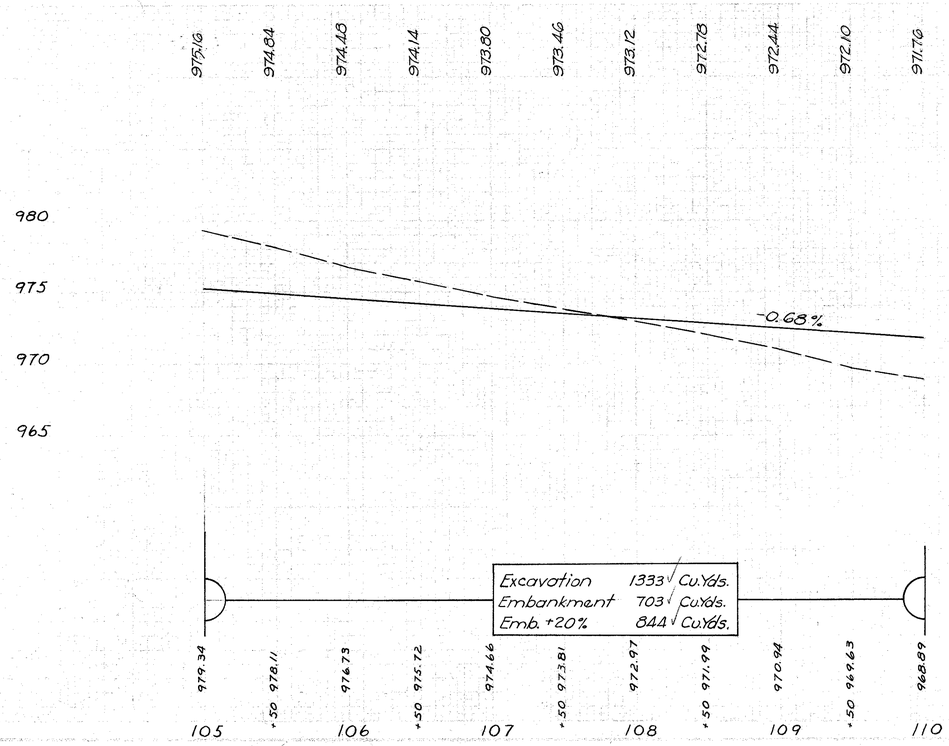
TYPE FUNDS POST WAR



| DRIVES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| REF. Nº | STATION | SIDE | Δ | W | L | R | I-17 6" AGG. SQ.YDS. | I-1 PIPE 12" LIN. FT. |
| | | | | | | | | |
| 1-A | 106+00 | LH. | 90 | 10 | 21 | 15 | 34.1 | 22 |
| | | | | | | | | |
| TOTAL | | | | | | | 34.1 | 22 |



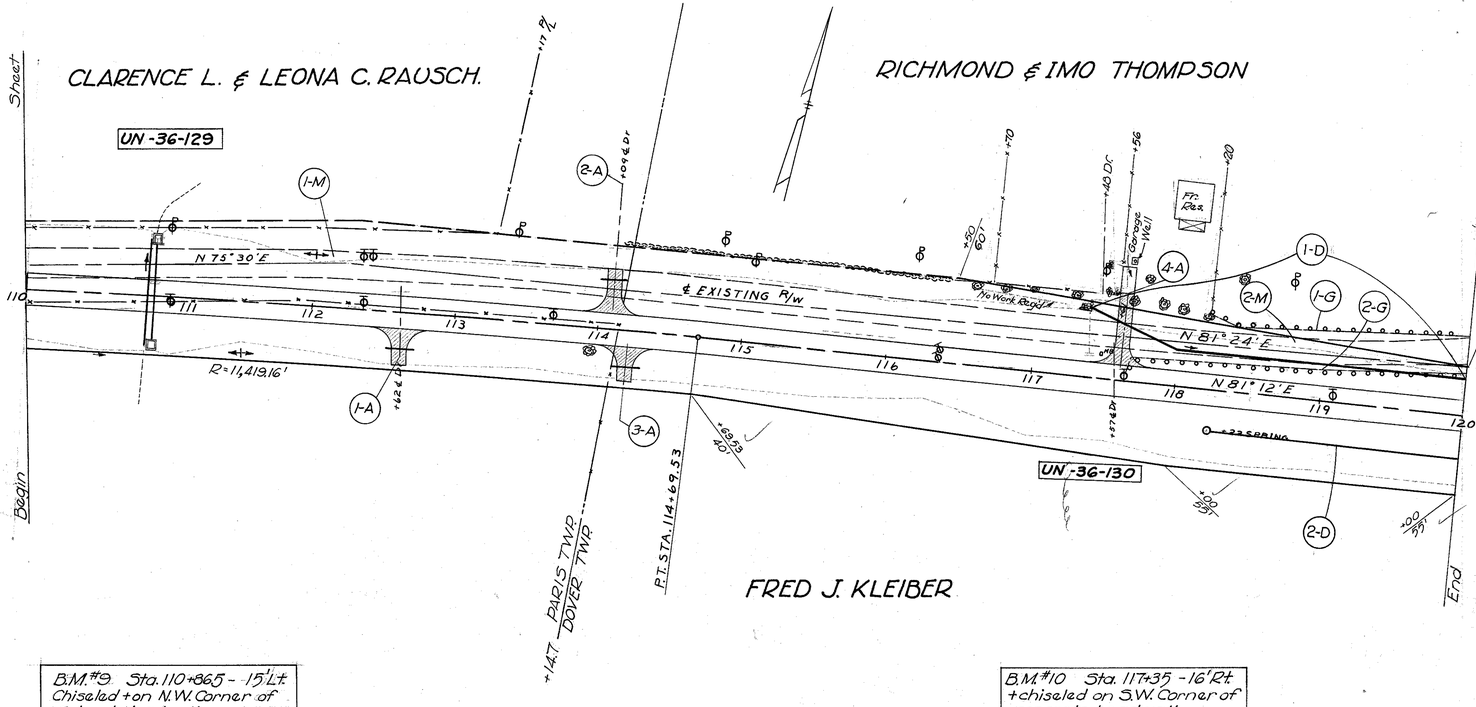

FRED J. KLEIBER




STA. 105+00 TO STA. 110+00

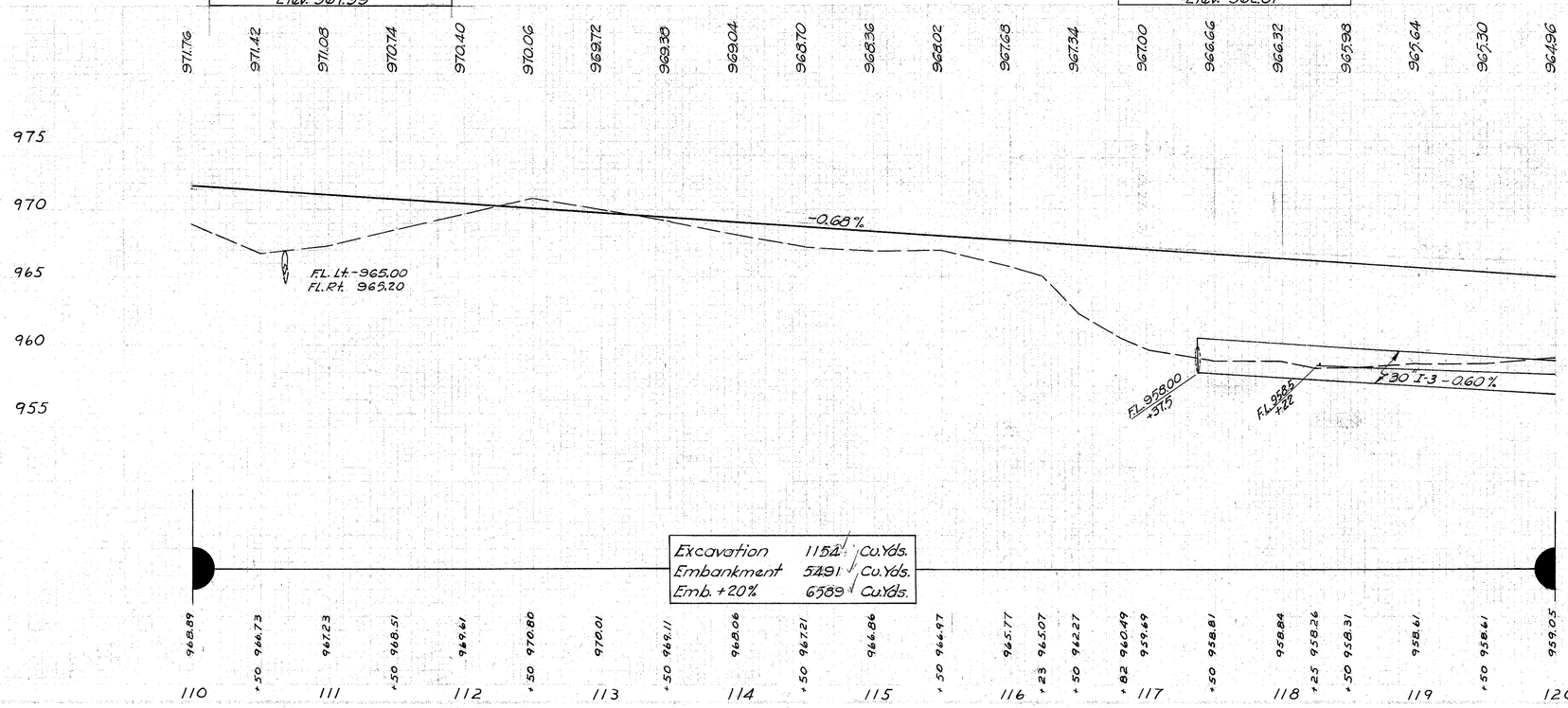
DIVISION 2 | OHIO F-982(1) | TYPE FUNDS POST WAR. | 8 45

UNI. 36-(12.77-13.03)




B.M.#9 Sta. 110+86.5 - 15' Lt.
Chiseled + on N.W. Corner of Culvert Headwall.
Elev. 967.99

B.M.#10 Sta. 117+35 - 16' Rt.
+ chiseled on S.W. Corner of concrete headwall.
Elev. 962.01




Excavation 1154 Cu.Yds.
Embankment 5491 Cu.Yds.
Emb. +20% 6589 Cu.Yds.

## DRIVES

| REF. N° | STATION | SIDE | Δ | W | L | R | I-17 6" AGG. SQ.YDS. | I-1 PIPE 12" LIN.FT. | E-12 REMOVE & DISPOSE-LIN.FT. 6"CIP | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-A | 112+62 | Rt. | 90 | 10 | 25 | 15 | 38.5 | 24 | 16 | |
| 2-A | 114+09 | Lt. | 90 | 10 | 31 | 15 | 45.2 | 24 | | |
| 3-A | 114+22 | Rt. | 90 | 10 | 24 | 15 | 37.4 | 24 | | |
| 4-A | 117+61 | Lt. | 90 | 10 | 51 | 15 | 67.4 | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL | | | | | | | 188.5 | 72 | 16 | |

## STRUCTURES-20' SPAN AND UNDER

| STRUCTURE N° | STATION | PRESENT STRUCTURE TYPE | SIZE | LENGTH | DISPOSITION | PROPOSED STRUC. TYPE | SIZE | LENGTH | SHEET N° | REMARKS. |
|---|---|---|---|---|---|---|---|---|---|---|
| UNI-36-129 | 110+88 | PIPE | 15" | 31.5 | REMOVE | PIPE | 24" | 70.0 | 38 | |
| UNI-36-130 | 117+37.5 | PIPE | 22" | 34.0 | REMOVE | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

## DRAINAGE

| REF. N° | STATION FROM | STATION TO | SIDE | E-3 PIPE 30" LIN.FT. | I-3 PIPE UNDER PAVT. 30" LIN.FT. | L-10 SODDING SQ.YDS. | I-10 RIPRAP TYPE-A SQ.YDS. | I-3 PIPE 6" LIN.FT. |
|---|---|---|---|---|---|---|---|---|
| 1-D | 117+37.5 | 120+00 | Lt. | 247 | 20 | 5 | 8 | |
| 2-D* | 118+25 | 120+00 | Rt. | | | | | 175 |
| | | | | | | | | |
| TOTAL | | | | 247 | 20 | 5 | 8 | 175 |

* Connect to existing spring.

## TREES AND STUMPS TO BE REMOVED

| Station | Side | Size & Kind | N° |
|---|---|---|---|
| 113+96 | Rt. | 48" Elm | 1 |
| | | | |
| | | | |
| TOTAL | | | 1 |

## GUARD RAIL

| REF. N° | STATION FROM | STATION TO | SIDE | SPECIAL REMOVAL & DISPOSAL OF LIN. FT. |
|---|---|---|---|---|
| 1-G | 118+20 | 120+00 | Lt. | 180 |
| 2-G | 117+64 | 120+00 | Lt. | 236 |
| | | | | |
| TOTAL | | | | 416 |

## MISCELLANEOUS

| REF. N° | STATION FROM | STATION TO | SIDE | E-8 REMOVAL OF EXISTING PAV'T. SQ.YDS. |
|---|---|---|---|---|
| 1-M | 111+60 | 114+00 | Lt. | 71 |
| 2-M | 117+65 | 120+00 | Lt. | 255 |
| | | | | |
| TOTAL | | | | 326 |

STA. 110+00 TO STA. 120+00

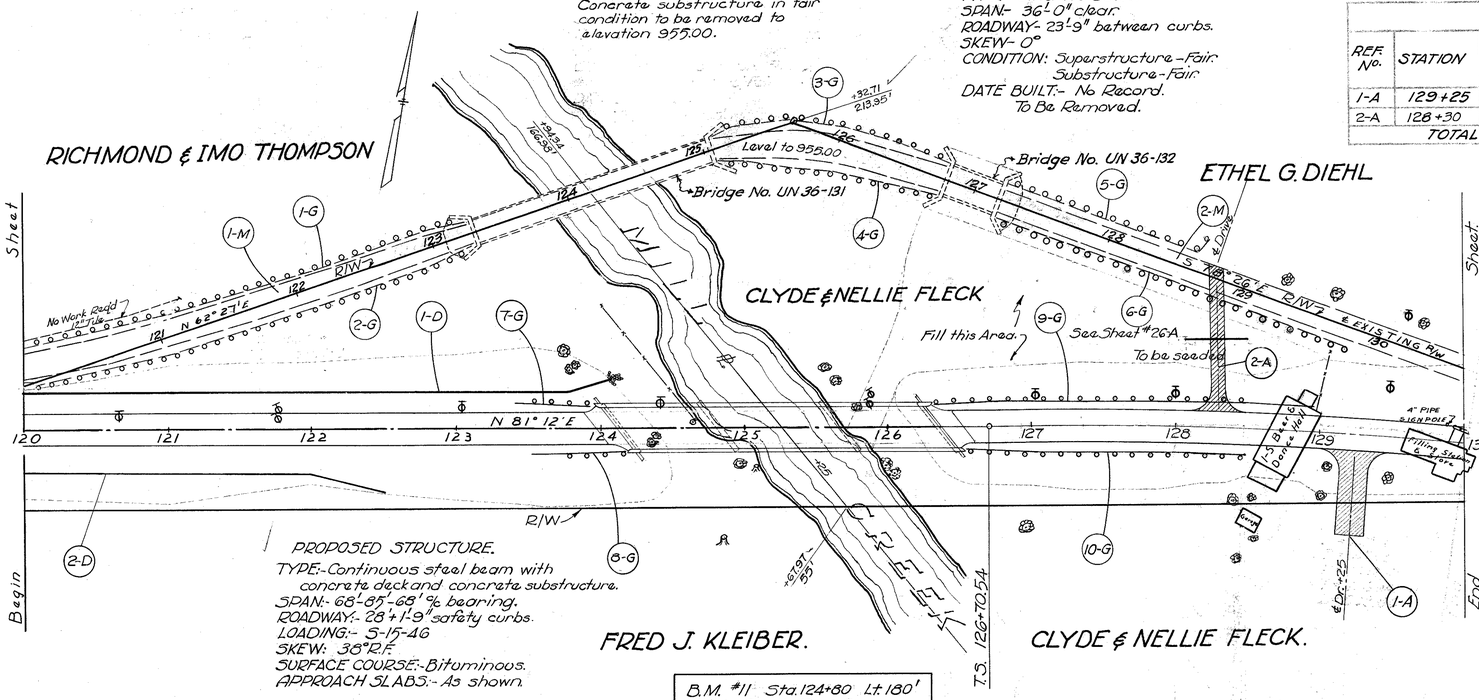
DIVISION 2 OHIO F-982(1) TYPE FUNDS POST WAR

9
45

UNI. 36-(12.77-13.03)

EXISTING BRIDGE DATA UNI-36-131
Concrete substructure in fair condition to be removed to elevation 955.00.

EXISTING BRIDGE DATA UNI-36-132
TYPE:- Concrete Beam
SPAN:- 36'-0" clear.
ROADWAY:- 23'-9" between curbs.
SKEW:- 0°
CONDITION: Superstructure - Fair
Substructure - Fair.
DATE BUILT:- No Record.
To Be Removed.




## DRIVES

| REF. No. | STATION | SIDE | Δ | W | L | R | I-17 6" AGG. SQ.YDS. | I-1 12" PIPE LIN.FT. |
|---|---|---|---|---|---|---|---|---|
| 1-A | 129+25 | Rt. | 90 | 20 | 52 | 15 | 126.3 | |
| 2-A | 128+30 | Lt. | 90 | 10 | 102 | 15 | 124.1 | 44 |
| TOTAL | | | | | | | 250.4 | 44 |

## DRAINAGE

| REF Nº | STATION FROM | STATION TO | SIDE | I-3 PIPE 30" LIN.FT. | I-3 PIPE OUTLET 30" LIN.FT. | L-10 SODDING SQ.YDS. | I-10 RIPRAP SQ.YDS. | * I-14 PAVED GUTTER LIN.FT. | I-3 PIPE 6" LIN.FT. |
|---|---|---|---|---|---|---|---|---|---|
| 1-D | 120+00 | 124+05 | Lt. | 386 | 20 | 16 | 5 | 15 | |
| 2-D | 120+00 | 122+50 | Rt. | | | | | | 251 |
| TOTAL | | | | 386 | 20 | 16 | 5 | 15 | 251 |

* For detail of paved gutter see sheet #37

## TREES AND STUMPS TO BE REMOVED

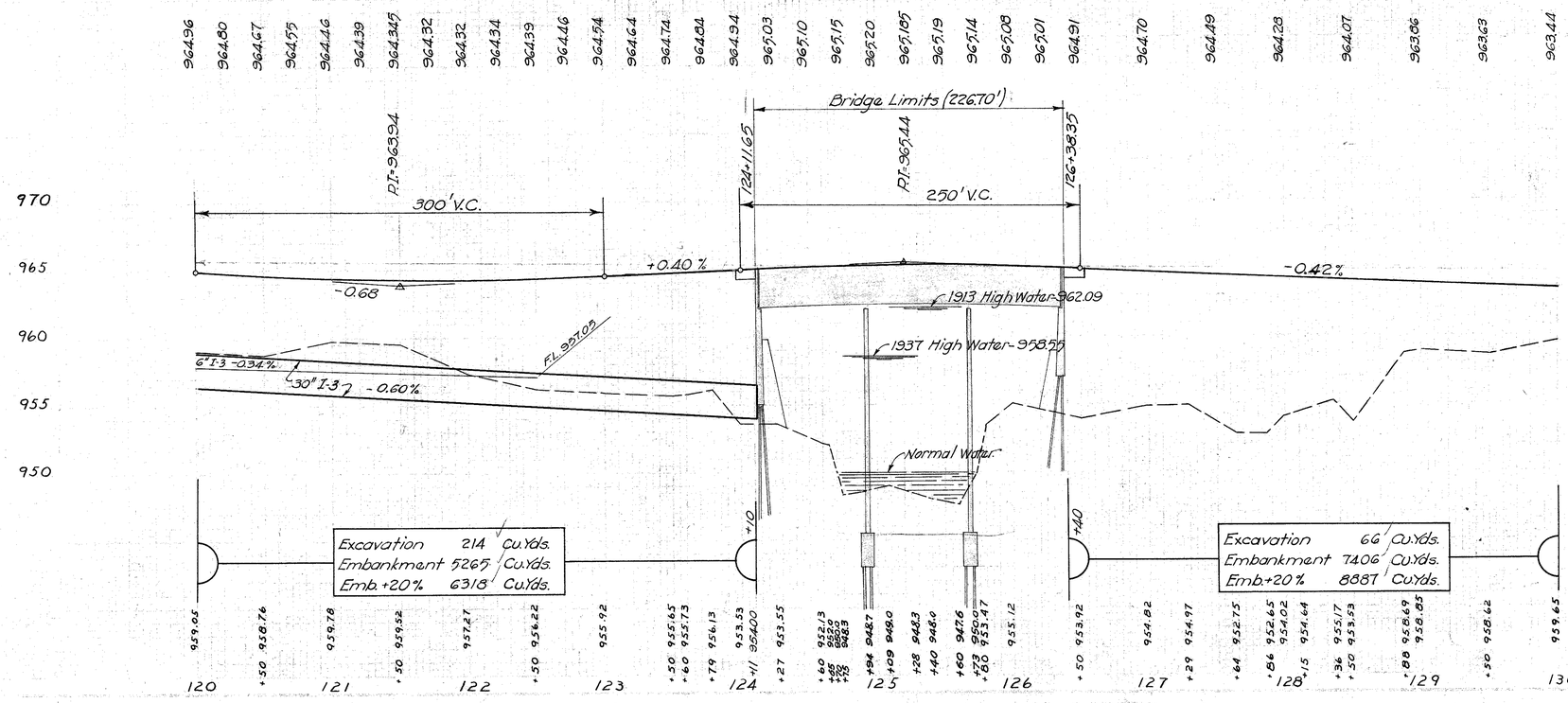
| STATION | SIDE | SIZE & KIND | Nº |
|---|---|---|---|
| 123+79 | Lt. | 15" Willow | 1 |
| +81 | Lt. | 18" Willow | 1 |
| 129+03 | Rt. | 12" Elm | 1 |
| 129+48 | Rt. | 20" Apple | 1 |
| | | | |
| TOTAL | | | 4 |

## GUARD RAIL

| REF Nº | STATION FROM | STATION TO | SIDE | SPECIAL REMOVE & DISPOSE OF LIN.FT. | I-15 GUARD RAIL LIN.FT. |
|---|---|---|---|---|---|
| 1-G | 120+00 | 122+96 | Lt. | 310 | |
| 2-G | 120+00 | 123+05 | Lt. | 320 | |
| 3-G | 124+90 | 126+40 | Lt. | 155 | |
| 4-G | 124+94 | 126+32 | Lt. | 140 | |
| 5-G | 126+92 | 128+15 | Lt. | 135 | |
| 6-G | 126+82 | 129+20 | Lt. | 255 | |
| 7-G | 123+44 | 123+97 | Lt. | | 50 |
| 8-G | 123+55.5 | 124+18 | Rt. | | 62.5 |
| 9-G | 126+32 | 128+94.5 | Lt. | | 262.5 |
| 10-G | 126+56 | 128+43.5 | Rt. | | 187.5 |
| TOTAL | | | | 1315 | 562.5 |

## MISCELLANEOUS

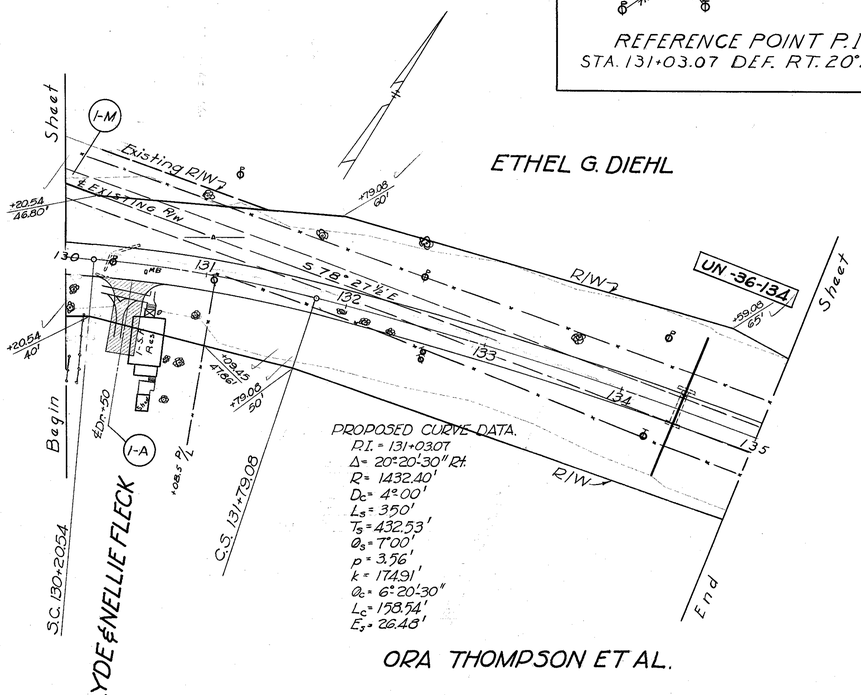
| REF Nº | STATION FROM | STATION TO | SIDE | E-8 REMOVAL OF EXISTING PAVT. SQ.YDS. |
|---|---|---|---|---|
| 1-M | 120+00 | 122+95 | Lt. | 620 |
| 2-M | 126+92 | 130+00 | Lt. | 640 |
| TOTAL | | | | 1260 |




STA. 120+00 TO STA. 130+00

DIVISION 2 OHIO F-982(1) TYPE FUNDS POST WAR 10 45

UNI. 36 -(12.77-13.03)




## STRUCTURES ~ 20' SPAN AND UNDER

| STRUCTURE Nº | STATION | PRESENT STRUCTURES | | | | PROPOSED STRUC. | | | SHEET Nº | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | TYPE | SIZE | LENGTH | DISPOSITION | TYPE | SIZE | LENGTH | | |
| UNI-36-134 | 134+42 | PIPE | 30" | 27.5 | REMOVE | PIPE | 30" | 104' | 39 | |

## DRIVES

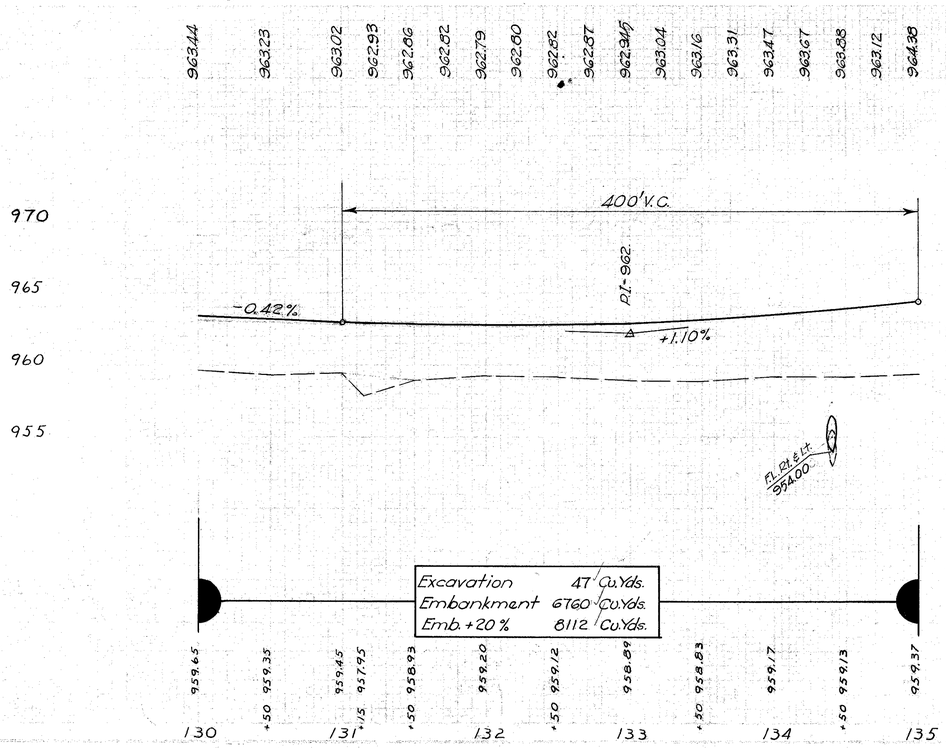
| REF Nº | STATION | SIDE | Δ | W | L | R | I-17 6" AGG SQ. YDS. | |
|---|---|---|---|---|---|---|---|---|
| I-A | 130+50 | Rt. | 90 | 20 | 59 | 15 | 141.8 | |
| TOTAL | | | | | | | 141.8 | |

## TREES AND STUMPS TO BE REMOVED

| STATION | SIDE | SIZE & KIND | Nº |
|---|---|---|---|
| 130+07 | Rt. | 12" Hackberry | 1 |
| 130+09 | Rt. | 14" Walnut | 1 |
| 130+98 | Rt. | 26" Elm | 1 |
| 131+72 | Lt. | 26" Maple | 1 |
| 131+95 | Rt. | 26" Ash | 1 |
| 132+15 | Rt. | 36" Sycamore | 1 |
| 132+35 | Rt. | 30" Ash | 1 |
| 133+97 | Lt. | 42" Maple | 1 |
| TOTAL | | | 8 |

## MISCELLANEOUS

| REF. Nº | STATION FROM | STATION TO | SIDE | E-8 REMOVAL OF EXISTING PAVT. SQ. YDS. | |
|---|---|---|---|---|---|
| I-M | 130+00 | 130+20 | Lt. | 7 | |
| TOTAL | | | | 7 | |



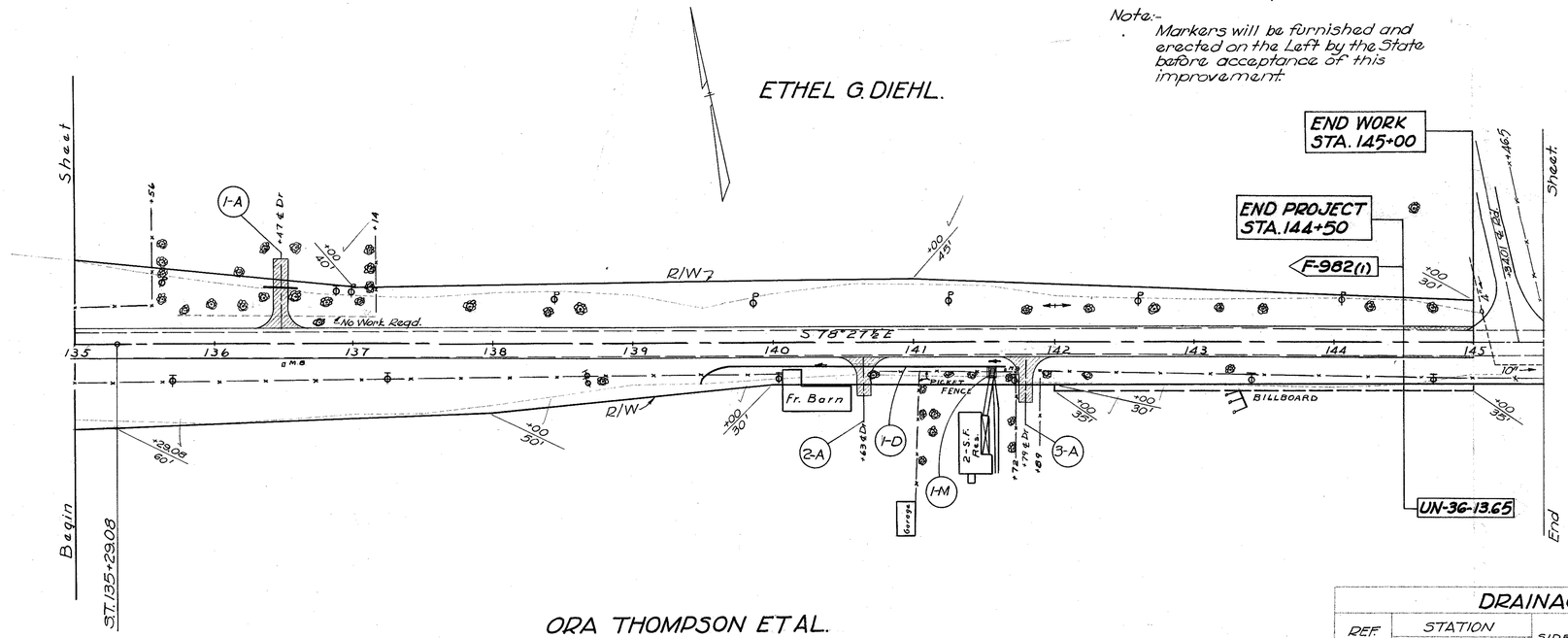

STA. 130+00 TO STA. 135+00

DIVISION 2 OHIO F-982(1)

TYPE FUNDS POST WAR 11 45

UNI. 3 6-(12.77-13.03)

Note:- Markers will be furnished and erected on the Left by the State before acceptance of this improvement.




## DRIVES

| REF. Nº | STATION | SIDE | Δ | W | L | R | I-17 6" AGG. SQ. YDS | I-1 12" PIPE LIN. FT. | E-12 REMOVE & DISPOSE OF 8" C.I.P. LIN. FT. |
|---|---|---|---|---|---|---|---|---|---|
| 1-A | 136+47 | Lt. | 90° | 10 | 48 | 15' | 64.0 | 28 | |
| 2-A | 140+63 | Rt. | 90 | 10 | 27 | 15 | 40.7 | | 16 |
| 3-A | 141+79 | Rt. | 90 | 10 | 32 | 15 | 46.3 | | |
| | | | | | | | | | |
| TOTAL | | | | | | | 151.0 | 28 | 16 |

## MISCELLANEOUS

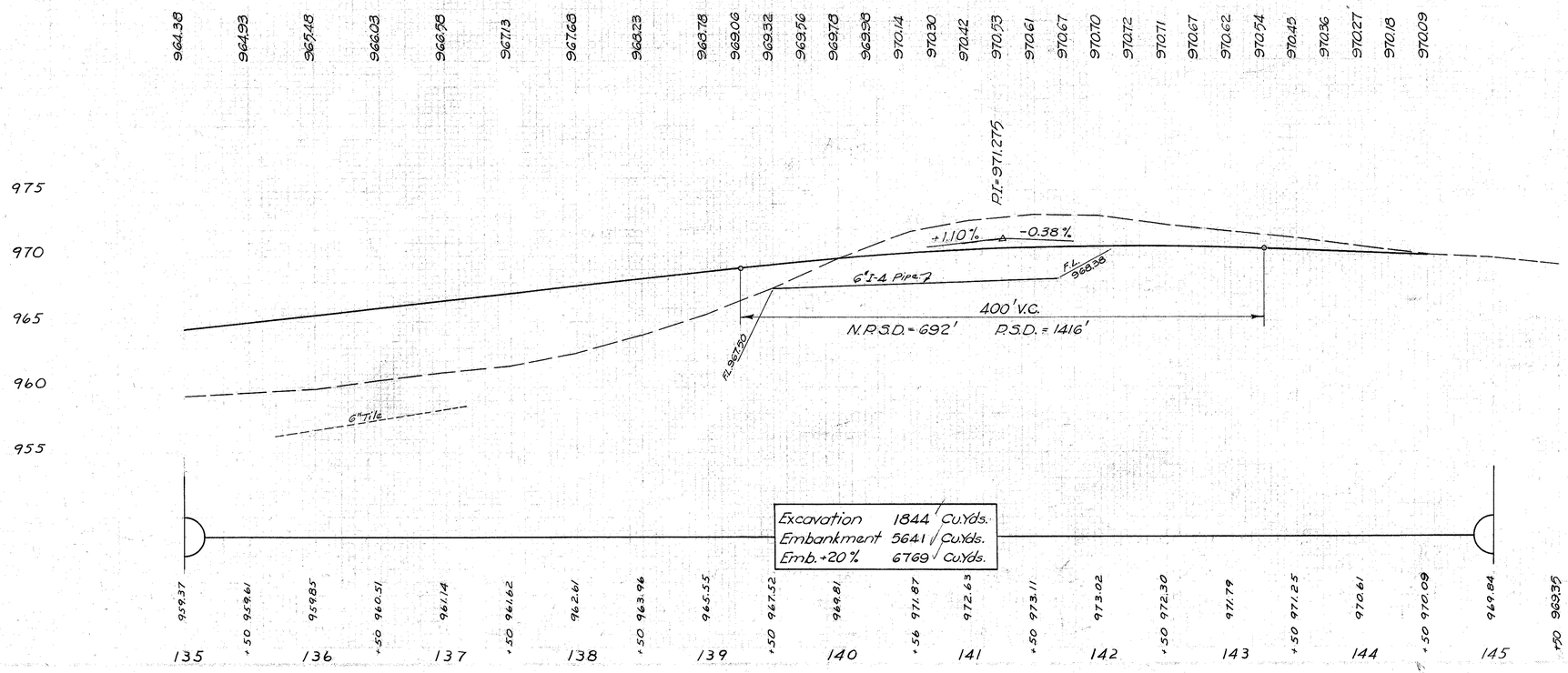
| REF. Nº | STATION | SIDE | I-13 CONC. STEPS LIN. FT. | E-8 WALK REMOVED & DISPOSED OF SQ. FT. | I-13 4" CONC. WALK SQ. FT. | L-10 SODDING SQ. YDS. | |
|---|---|---|---|---|---|---|---|
| 1-M | 141+54 | Rt. | 35 | 44 | 19 | 3 | |
| | | | | | | | |
| | | | | | | | |
| TOTAL | | | 35 | 44 | 19 | 3 | |

## DRAINAGE

| REF. Nº | STATION FROM | STATION TO | SIDE | I-4 PIPE 6" LIN. FT. | I-4 PIPE OUTLET 8" LIN. FT. |
|---|---|---|---|---|---|
| 1-D | 139+50 | 141+66 | Rt. | 200 | 20 |
| | | | | | |
| TOTAL | | | | 200 | 20 |

## TREES AND STUMPS TO BE REMOVED

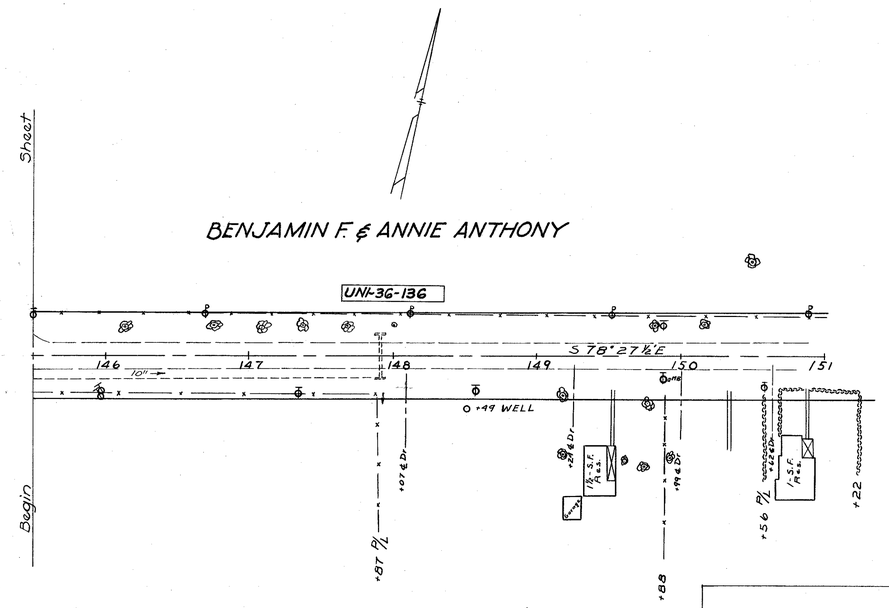
| STATION | SIDE | SIZE & KIND | Nº |
|---|---|---|---|
| 135+62 | Lt. | 16" Maple | 1 |
| 135+78 | Lt. | 20" Maple | 1 |
| 135+96 | Lt. | 24" Elm | 1 |
| 136+18 | Lt. | 20" Maple | 1 |
| 136+33 | Lt. | 14" Maple | 1 |
| 136+57 | Lt. | 22" Maple | 1 |
| 136+72 | Lt. | 18" Ash | 1 |
| 136+79 | Lt. | 12" Ash | 1 |
| 137+03 | Lt. | 12" Pine | 1 |
| 137+82 | Lt. | 24" Catalpa | 1 |
| 138+38 | Lt. | 12" Catalpa. | 1 |
| 138+61 | Lt. | 26" Elm | 1 |
| 138+77 | Rt. | 18" W. Cherry | 1 |
| 140+10 | Rt. | 18" Ash | 1 |
| 141+24 | Rt. | 36" Maple | 1 |
| 141+42 | Rt | 24" Maple | 1 |
| 141+80 | Lt. | 24" Maple | 1 |
| 141+93 | Rt. | 36" Maple | 1 |
| 142+23 | Rt. | 36" Maple | 1 |
| 142+25 | Lt. | 26" Catalpa | 1 |
| 142+71 | Lt. | 24" Maple | 1 |
| 143+17 | Lt. | 24" Catalpa | 1 |
| 143+25 | Rt. | 36" Maple | 1 |
| 143+48 | Lt. | 26" Catalpa | 1 |
| 144+24 | Lt. | 26" Maple | 1 |
| | | | |
| | | | |
| TOTAL | | | 25 |



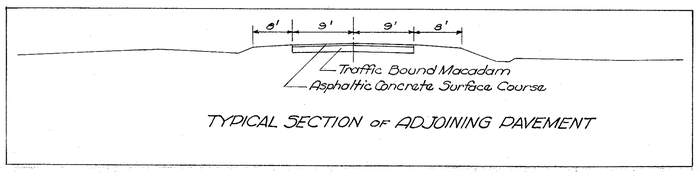

STA. 135+00 TO STA. 145+50

DIVISION 2 | TYPE FUNDS OHIO F-982(1) POST WAR | 12 45

UNI. 36 -(12.77-13.03)

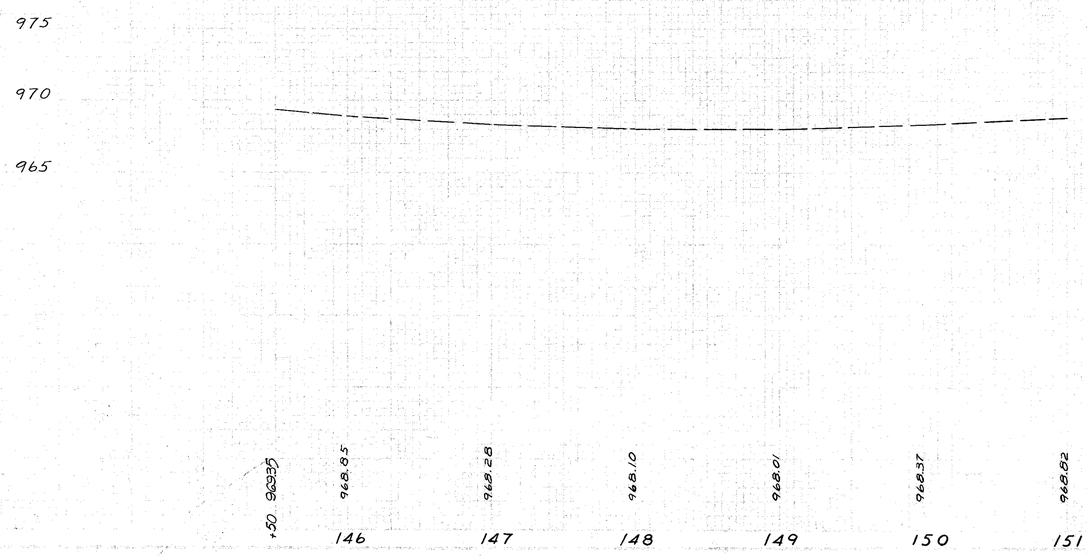



B.M.U.S.G. Elev. 974.36
South West Corner of School Grounds, New Dover, Ohio.




TYPICAL SECTION OF ADJOINING PAVEMENT

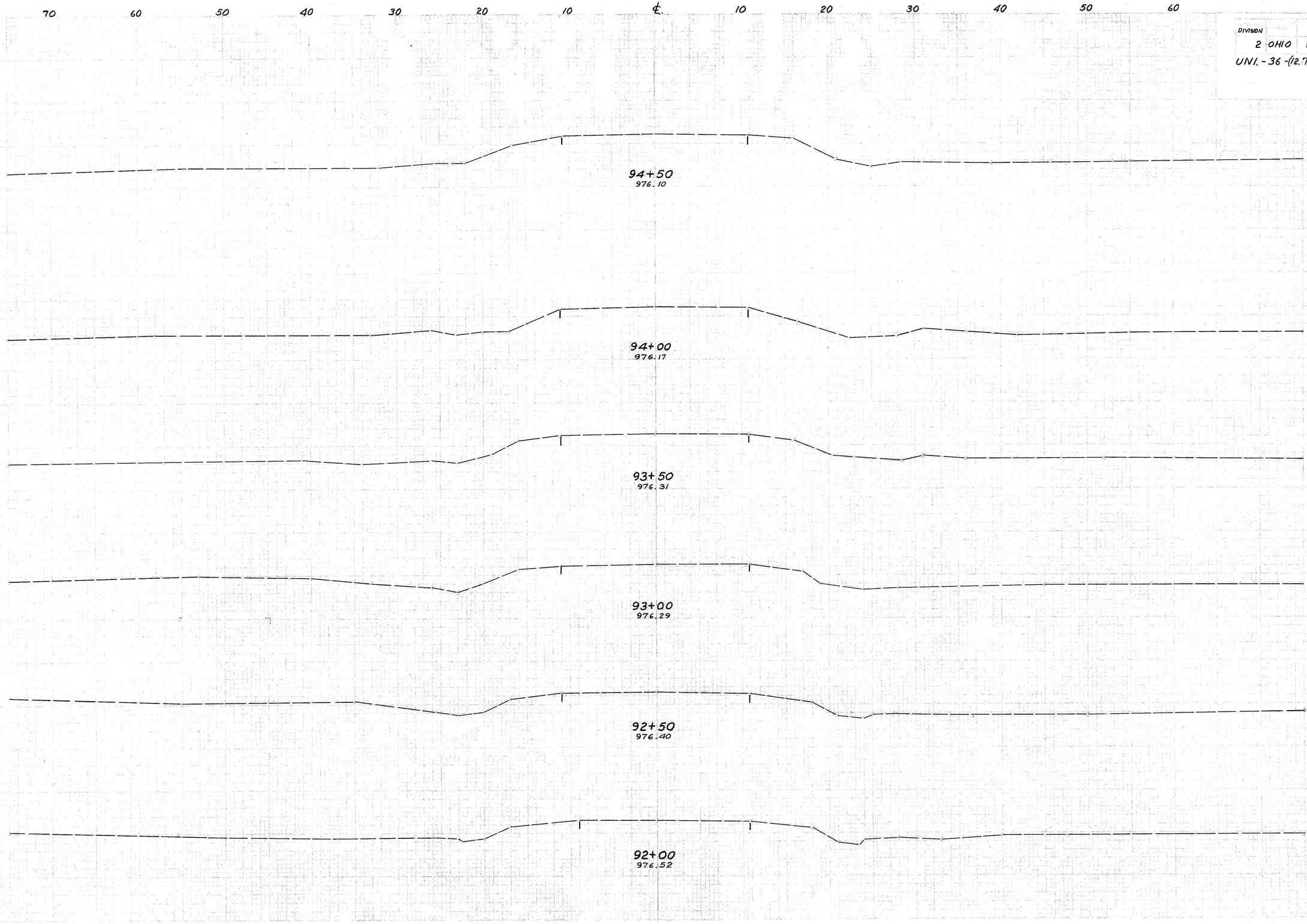
No work required on this sheet




STA. 145+50 TO STA. 151+00

| DIVISION | | | TYPE FUNDS | 13 |
|---|---|---|---|---|
| 2 | OHIO | F-982(1) | POST WAR | 45 |

UNI. - 36 -(12.77-13.03)




| END AREA | | CU. YDS. | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |

STA. 92+00 TO 94+50

DIVISION 2 OHIO F-382(1)

TYPE FUNDS 14
POST WAR 45

UNI. - 36 -(12.77-13.03)

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

+20 - 41'-36" Oak

60 75

977.88
97+00
979.27

46 1% 12

977.50
96+50
977.99

4:1 11 31 4:1 10

977.03
96+00
977.01

Begin Project
Sta. 96+00

3:1 13 3:1 5

95+50
976.61

95+00
976.25

Begin Work
Sta. 95+00

15" V.S.P.

970.51 = F.L. 970.83 = F.L.

94+78
976.19

94+64.5

12" tile

94+64 C.B. 23' Lt.
F.L. = 969.45

94+65 - 24' Rt.
F.L. 10" tile = 969.53

50 40 30 20 10 ℄ 10 20 30 40 50

94+50

| END AREA | | CU. YDS. | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |
| 135 | 2 | | |
| | | 179 | 5 |
| 58 | 3 | | |
| | | 83 | 24 |
| 31 | 23 | | |
| | | 29 | 38 |
| 0 | 18 | | |
| | | 0 | 17 |
| 0 | 0 | | |

STA. 94+78 TO 97+00

DIVISION 2 OHIO F-982(1) TYPE FUNDS POST WAR 15 45

UNI. - 36 - (12.77 - 13.03)

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

194 146 978.39 100+00 983.25

175 136 978.52 99+50 983.01

978.53 99+46 Dr. Rt. 982.94 165 10 ₹1 2.0 6" Curb ₹

Add for Dr. Rt. Sta. 99+46

146 978.56 99+00 982.64 134

+62-47"-20" Catalpa
+44-42"-24" Oak
+25-36"-24" Elm

Ahead 24 Back 116 976.60 978.52 98+50 982.18 134

98+03-33.5'-16" Maple
97+95-36"-24" Elm

100 978.39 98+00 981.57 130

97+61-34'-16" Maple

Ahead 88 Back 10 ₹1 +48 Dr. 978.18 97+50 980.51 121 10 ₹1 Dr. +48.7

Sta. 98+25 Ahead Back

97+50 Ahead Back

Add for Dr. Rt. +48
Add for Dr. Lt. +48

| END AREA | | CU. YDS. | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |
| | | | |
| 340 | 2 | | |
| | | 603 | 4 |
| 311 | 2 | | |
| | | 547 | 4 |
| | | 2 | 7 |
| 280 | 2 | | |
| | | 515 | 4 |
| 276 | 2 | | |
| | | 256 | 2 |
| 276 | 2 | | |
| 250 | 2 | | |
| | | 222 | 2 |
| 230 | 2 | | |
| | | 407 | 4 |
| 209 | 2 | | |
| 240 | 2 | | |
| | | 347 | 4 |
| | | 4 | 8 |
| | | 1 | 5 |
| 97+00 | 135 | 2 | |

STA. 97+50 TO 100+00

DIVISION 2 OHIO | TYPE FUNDS F-982(1) POST WAR | 16 45

UNI.-36-(12.77-13.03)

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

976.52
103+00
984.02
331
301

976.86
102+50
984.71
355
300

977.20
102+00
984.89
351
305

977.54
101+50
984.49
316
251

977.88
101+00
983.97
274
202

978.18
100+50
983.54
227
174
20
2

Add for Dr. Rt. Sta. 100+47

100+00

50 40 30 20 10 ℄ 10 20 30 40 50

STA. 100+50 TO 103+00

Excavation 12551 Cu.Yds.
Embankment 175 Cu.Yds.
Emb.+20% 210 Cu.Yds.

| END AREA CUT | END AREA FILL | CU. YDS. CUT | CU. YDS. FILL |
|---|---|---|---|
| 632 | 2 | | |
| | | 1192 | 4 |
| 655 | 2 | | |
| | | 1220 | 4 |
| 662 | 2 | | |
| | | 1138 | 4 |
| 567 | 2 | | |
| | | 966 | 4 |
| 476 | 2 | | |
| | | 812 | 4 |
| 401 | 2 | | |
| | | 686 | 4 |
| | | 1 | 7 |
| 340 | 2 | | |

DIVISION 2 OHIO F-382(1) TYPE FUNDS POST WAR 17 45

UNI. - 36 -(12.77-13.03)

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

Add for Drive Lt. 106+00

67 974.48 106+00 976.73 85

104 974.82 105+50 978.11 106

135 975.16 105+00 979.34 140

105+00

176 975.50 104+50 980.59 185

222 975.84 104+00 981.73 227

216 976.18 103+50 982.91 264

103+00

50 40 30 20 10 ℄ 10 20 30 40 50

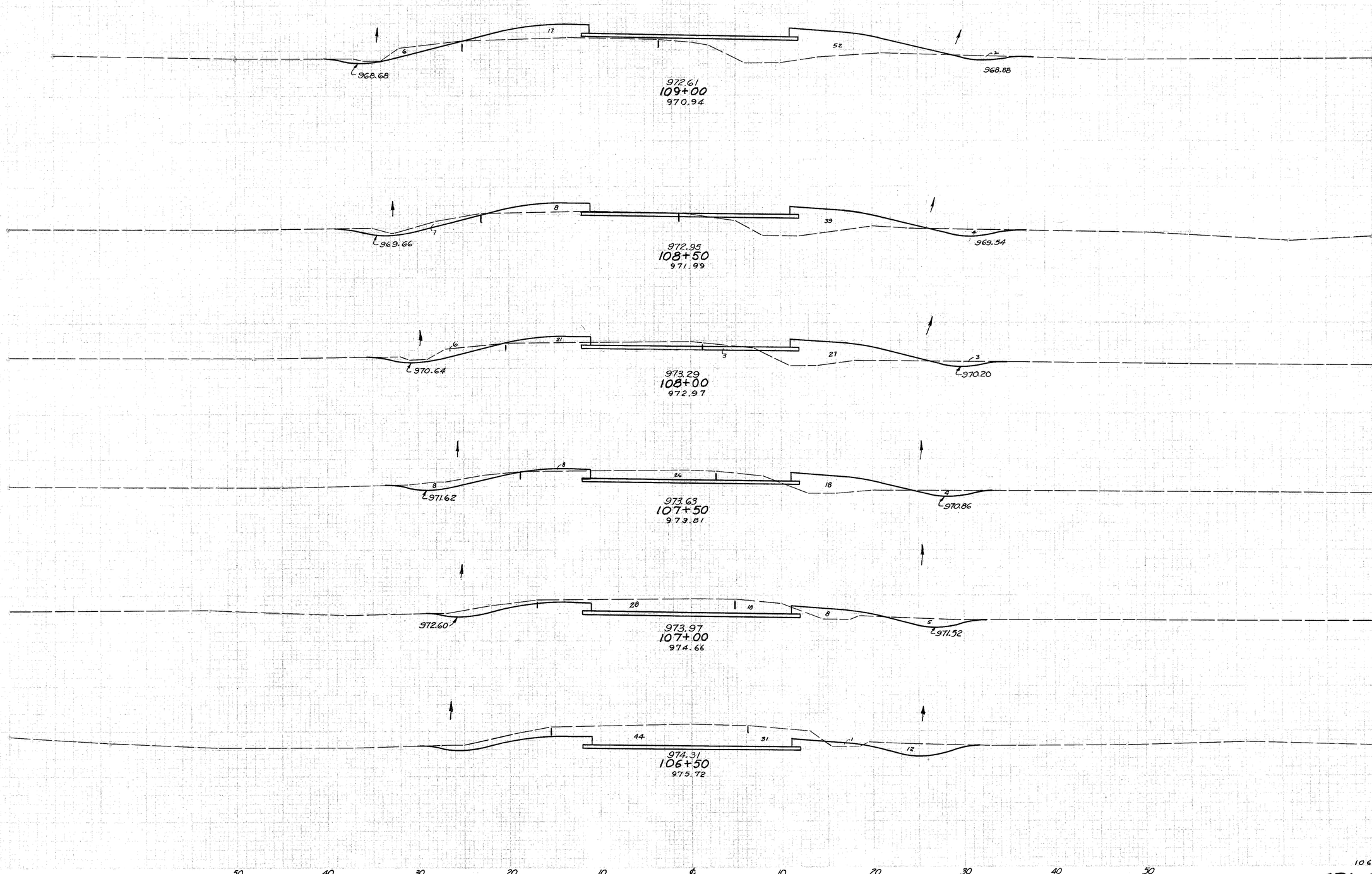
| END AREA CUT | END AREA FILL | CU. YDS. CUT | CU. YDS. FILL |
|---|---|---|---|
| | | 0 | 5 |
| 152 | 2 | | |
| | | 335 | 4 |
| 210 | 2 | | |
| | | 449 | 4 |
| 275 | 2 | | |
| | | 589 | 4 |
| 361 | 2 | | |
| | | 750 | 4 |
| 449 | 2 | | |
| | | 916 | 4 |
| 540 | 2 | | |
| | | 1086 | 4 |
| 632 | 2 | | |

STA. 103+50 TO 106+00

DIVISION 2 OHIO | TYPE FUNDS F-382(1) | POST WAR 18 45

UNI. - 36 - (12.77-13.03)

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60




| END AREA | | CU. YDS. | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |
| 10 | 69 | | |
| | | 20 | 108 |
| 11 | 47 | | |
| | | 22 | 88 |
| 12 | 48 | | |
| | | 47 | 69 |
| 38 | 26 | | |
| | | 83 | 32 |
| 51 | 8 | | |
| | | 128 | 10 |
| 87 | 3 | | |
| | | 222 | 4 |
| 152 | 2 | | |

Excavation 1333 Cu.Yds.
Embankment 703 Cu.Yds.
Emb.+20% 844 Cu.Yds.

106+00

50 40 30 20 10 ℄ 10 20 30 40 50

STA. 106+50 TO 109+00

DIVISION 2 OHIO F-982(1) TYPE FUNDS 19 POST WAR 45

UNI. - 36 - (12.77 - 13.03)

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

32 41 21

℄ 965.5

970.74
111+50
968.51

47 69

24

971.08
111+00
967.23

℄ 966.5

965.42

F.L. 965.00

971.16
110+88
966.96

UN-36-129

24" tile

F.L. 965.20

12" tile

15" V.S.D.

51 66

13

℄ 965.74

971.42
110+50
966.73

49 84

23

℄ 966.72

971.76
110+00
968.89

27 74

8

967.70

972.10
109+50
969.63

50 40 30 20 10 ℄ 10 20 30 40 50

| END AREA | | C.U. YDS. | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |
| 34 | 62 | | |
| | | 58 | 165 |
| 28 | 116 | | |
| | | 39 | 216 |
| 14 | 117 | | |
| | | 16 | 232 |
| 110+00 | | | |
| 3 | 133 | | |
| | | 10 | 219 |
| 8 | 103 | | |
| | | 17 | 160 |
| 109+00 | | | |
| 10 | 69 | | |

STA. 109+50 TO 111+50

DIVISION 2 OHIO F-982(1) TYPE FUNDS POST WAR 20 45

UNI. - 36 -(12.77-13.03)

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

113+96-15' 48" Elm

Add for Dr. Lt. Sta. 114+09

Add for Dr. Rt. Sta. 114+22

Drive +09

17 11 34 3 5

965.50

969.04
114+00
968.06

13 31 13 12

966.37

969.38
113+50
969.11

13 23 52

967.25

969.72
113+00
970.01

Add for Dr. Rt. Sta. 112+62

32 Drive +62 20

969.98
112+62 Dr. Rt.
970.80

16 9 60

968.12

970.06
112+50
970.80

3 25 4 5 7

970.40
112+00
969.61

| END AREA | | CU. YDS. | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |
| | | 0 | 11 |
| | | 6 | 5 |
| 35 | 37 | | |
| | | 68 | 64 |
| 38 | 32 | | |
| | | 96 | 51 |
| 65 | 23 | | |
| | | 131 | 30 |
| | | 0 | 6 |
| 76 | 9 | | |
| | | 84 | 36 |
| 14 | 30 | | |
| | | 45 | 85 |
| 111+50 | | | |
| 34 | 62 | | |

50 40 30 20 10 ℄ 10 20 30 40 50

STA. 112+00 TO 114+00

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

| DIVISION | | PROJECT | TYPE FUNDS | 21 |
|---|---|---|---|---|
| 2 | OHIO | F-982(1) | POST WAR | 45 |

UNI-36-(12.77-13.03)

116+63-56
22" Maple

959.90

967.34
116+50
962.27

961.00

967.52
116+23
965.07

962.00

967.68
116+00
965.77

962.87

968.02
115+50
966.97

963.75

968.36
115+00
966.86

964.62

968.70
114+50
967.21

| End Area | | Qu. Yds. | |
|---|---|---|---|
| Cut | Fill | Cut | Fill |
| 32 | 190 | | |
| | | 34 | 150 |
| 36 | 110 | | |
| | | 30 | 80 |
| 34 | 77 | | |
| | | 89 | 115 |
| 62 | 47 | | |
| | | 94 | 87 |
| 39 | 47 | | |
| | | 80 | 79 |
| 47 | 38 | | |
| | | 76 | 70 |
| 35 | 37 | | |

Sta. 114+00

50 40 30 20 10 ℄ 10 20 30 40 50

STA. 114+50 to 116+50

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

DIVISION 2 | OHIO F-982(1) | TYPE FUNDS POST WAR 22 45

UNI-36-(12.77-13.03)

118+25-53'-24" Maple

160 192

966.15
118+25
958.26

+22-29' Spring flows in Springtime

959.82

118+07-55'-24" Maple
117+93-56'-24" Maple
117+72-55'-26 Maple

160 202

966.32
118+00
958.84

959.85

10'x18' Garage frame on top of 4 rows of Conc. blocks.

Drive +61

48 148 204

Add for Drive Lt. 117+61

966.66
117+50
958.81

959.9

117+31-56'-20" Maple

Sodding

30" Pipe

Estimated
Riprap - 8 Sq Yds.
Carry to Sheet 8.
Sodding - 5 sq. yds.

3'

PLAN VIEW OF PIPE END

Ahead

back

22"

39 304 196

Ahead
Back

966.74
117+37.5 Culvert
959.28

UIN-36-130

F.L. 958.0

117+03-59.5'-26" Poplar

19 141 195

967.00
117+00
959.69

116+83-56'-18" Maple

20 124 169

967.12
116+82
960.49

Sta. 116+50

50 40 30 20 10 ℄ 10 20 30 40 50

STA. 116+82 to 118+25

| End Area Cut | End Area Fill | Cu. Yds. Cut | Cu. Yds. Fill |
|---|---|---|---|
| 3 | 352 | | |
| | | 5 | 331 |
| 7 | 362 | | |
| | | 8 | 661 |
| | | 19 | 0 |
| 1 | 352 | | |
| | | 6 | 183 |
| 25 | 439 | | |
| 25 | 400 | | |
| | | 30 | 511 |
| 19 | 336 | | |
| | | 13 | 209 |
| 20 | 290 | | |
| | | 31 | 284 |
| 32 | 190 | | |

Excavation 1154 Cu. Yds.
Embankment 5491 Cu. Yds.
Emb. +20% 6589 Cu. Yds.

| DIVISION | COUNTY | PROJECT | TYPE FUNDS | |
|---|---|---|---|---|
| 2 | OHIO | F-982(1) | POST WAR | 23 45 |

UNI-36-12.77-13.03)

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

188 66 43 959.55
964.46
121+00
959.78

203 79 30 959.60
964.67
120+50
958.76

152 78 27 959.65
964.96
120+00
959.05

143 137 20 959.70
965.30
119+50
958.61

143 135 9 959.75
965.64
119+00
958.61

143 146 15 959.80
965.38
118+50
958.31

50 40 30 20 10 ℄ 10 20 30 40 50

| End Area | | Cu. Yds. | |
|---|---|---|---|
| Cut | Fill | Cut | Fill |
| | | | |
| 43 | 254 | | |
| | | 68 | 502 |
| 30 | 288 | | |
| | | 48 | 480 |
| 120+00 | | | |
| 22 | 230 | | |
| | | 39 | 468 |
| 20 | 275 | | |
| | | 27 | 512 |
| 9 | 278 | | |
| | | 22 | 544 |
| 15 | 309 | | |
| | | 8 | 306 |
| 3 | 352 | | |

Sta. 118+25

STA. 118+50 to 121+00

| DIVISION | STATE | PROJECT | TYPE FUNDS | |
|---|---|---|---|---|
| 2 | OHIO | F-982(1) | POST WAR | 24 15 |

UNI-36-(12.77-13.03)

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

3½:1 293 278 3½:1 955.45

964.78
123+60
955.73

4:1 305 291 4:1

964.74
123+50
955.65

4:1 277 260 4:1

964.54
123+00
959.92

294 202

964.39
122+50
956.22

216 162 0

964.32
122+00
957.27

957.0 150 38 15 20 959.50 0

964.34
121+50
959.62

50 40 30 20 10 ℄ 10 20 30 40 50

Sta. 121+00

STA. 121+50 to 123+60

| | END AREA | | CU. YDS. | |
|---|---|---|---|---|
| | CUT | FILL | CUT | FILL |
| | | | | |
| | 2 | 583 | | |
| | | | 1 | 218 |
| | 0 | 596 | | |
| | | | 0 | 1049 |
| | 0 | 537 | | |
| | | | | |
| | 0 | 446 | | |
| | | | 0 | 763 |
| | 0 | 378 | | |
| | | | 19 | 594 |
| | 20 | 263 | | |
| | | | 59 | 479 |
| | 43 | 254 | | |

Excavation 214 Cu.Yds.
Embankment 5265 Cu.Yds.
Emb. +20% 6318 Cu.Yds.

| DIVISION | | | TYPE FUNDS | |
|---|---|---|---|---|
| 2 | OHIO | F-982(1) | POST WAR | 25 45 |

UNI-36-(12.77-13.03)

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

| | END AREA | | CU. YDS. | |
|---|---|---|---|---|
| | CUT | FILL | CUT | FILL |
| Add from Sheet #37 | | | | 104 |
| 126+40 | 48 | 532 | | |
| | | | | 153 |
| 124+10 | 21 | 581 | | |
| Add from Sheet #37 | | | | 214 |
| | | | 6 | |
| | 13 | 575 | | |
| | | | | 448 |
| | | | 9 | |
| | 10 | 576 | | |
| | | | | 365 |
| | | | 4 | |
| Sta. 123+60 | 2 | 583 | | |

964.95
126+40 @ 38° R.F. Skew
955.22

952.0

BRIDGE

964.98
124+10 @ 38° Skew.
954.00

953.1

955.20

964.94
124+00
953.53

953.2

955.25

964.86
123+79
956.13

955.35

+81-42'-18" Willow } Remove
+79-41'-15" Willow }
123+74-52-26 Sycamore

STA. 123+79 to 126+40

DIVISION 2 OHIO PROJECT F-982(1) UNI.-36-(12.77-13.03)

TYPE FUNDS POST WAR

26
45

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

℄
964.28
128+00
954.02
318
312

℄
368
342
964.34
127+86
952.65

℄
383
304
964.43
127+64
952.75

℄
341
286
964.58
127+29
954.97

318
285
964.70
127+00
954.82

50 40 30 20 10 ℄ 10 20 30 40 50

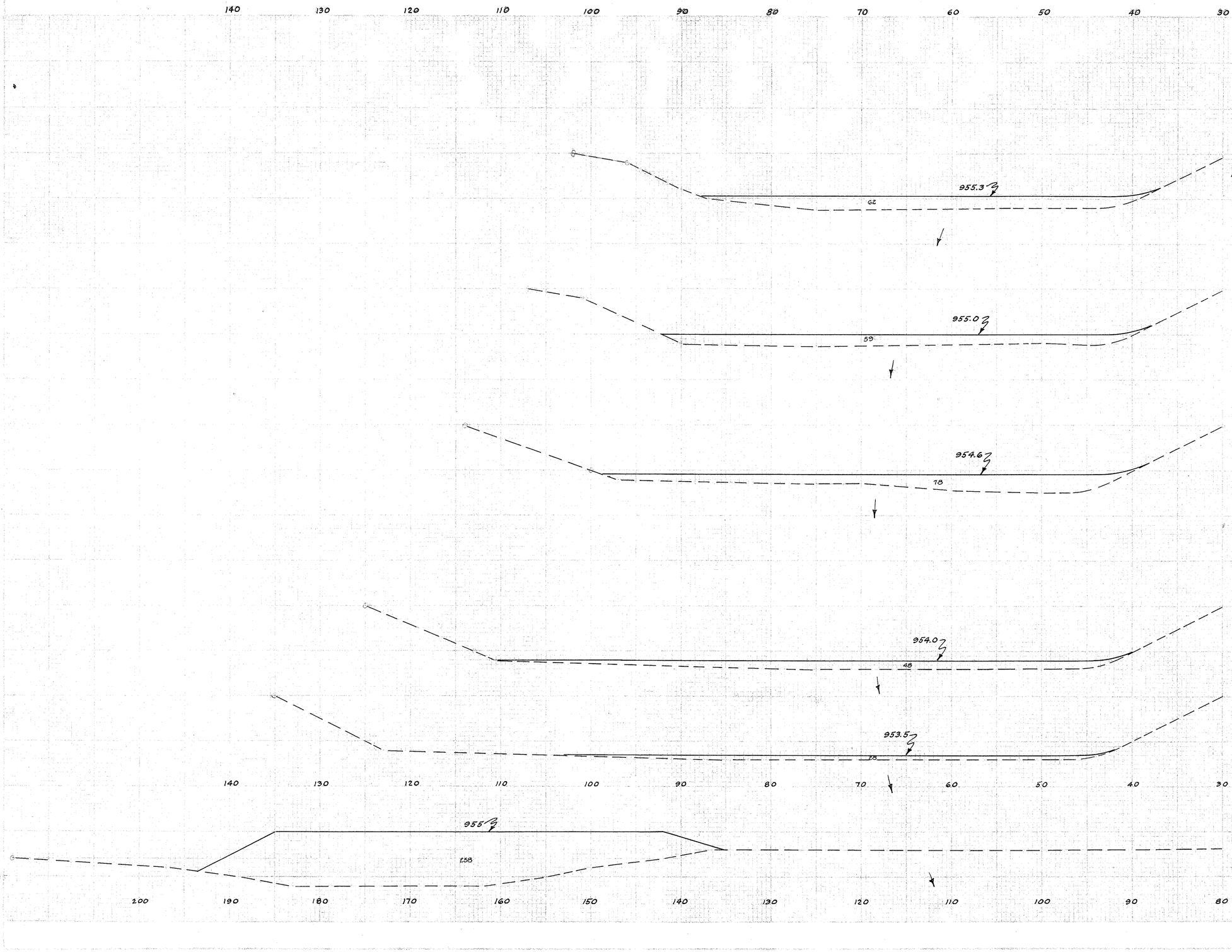
| END AREA | | CU. YDS. | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |
| 0 | 630 | | |
| | | 0 | 347 |
| 0 | 710 | | |
| | | 0 | 569 |
| 0 | 687 | | |
| | | 0 | 852 |
| 0 | 627 | | |
| | | 0 | 661 |
| 0 | 603 | | |
| | | 54 | 1261 |
| 48 | 532 | | |

126+40

STA. 127+00 TO 128+00

| | | | | |
|---|---|---|---|---|
| 2 | GRAVEL | F-982(1) | POST WAR | 2GA 45 |

UNI-36-(12.77-13.03)




| | END AREA CUT | END AREA FILL | CU. YDS CUT | CU. YDS FILL |
|---|---|---|---|---|
| | | | | |
| 128+00 LT. | 0 | 0 | | |
| | 0 | 62 | | |
| | | | 0 | 31 |
| 127+86 LT. | 0 | 59 | | |
| | | | 0 | 56 |
| 127+64 LT. | 0 | 78 | | |
| | | | 0 | 82 |
| 127+29 LT. | 0 | 48 | | |
| | | | 0 | 22 |
| 127+00 | 0 | 28 | | |
| | | | 0 | 16 |
| 126+80 Ahead | 0 | 14 | | |
| Back | 0 | 14 | | |
| | | | 0 | 101 |
| 126+60 LT. | 0 | 258 | | |
| | | | 0 | 96 |
| 126+40 | 0 | 0 | | |

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

DIVISION 2 | OHIO | F-982(1) | TYPE FUNDS POST WAR | 27 / 45

UNI. - 36-(12.77-13.03)

4:1 183 126 4:1

957.0

963.86
129+00
958.85

129+03-26'-12" Elm - Remove
129+00-46'-12" Elm

3½ to 1 232 128 3½ to 1

956.8

963.91
128+88
958.69

3 to 1 352 331 221 3 to 1

956.1

964.07
128+50
953.53

Drive +30 Lt

2½ to 1 (274) 326 281 2½ to 1

955.9

964.13
128+36
955.17

128+37-51'-12" Elm
Add for Drive Lt +30

2 to 1 386 252 2 to 1

955.5

964.22
128+15
954.64

630+62=692

| END AREA | | CU. YDS. | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |
| 0 | 309 | | |
| | | 0 | 149 |
| 0 | 360 | | |
| | | 0 | 657 |
| 0 | 573 | | |
| | | 0 | 302 |
| | | 0 | 147 |
| 0 | 607 | | |
| | | 0 | 473 |
| 0 | 608 | | |
| | | 0 | 361 |
| 0 | 692 | | |

Excavation 66 Cu. Yds.
Embankment 7406 Cu. Yds.
Emb +20% 8887 Cu. Yds.

128+00

70 60 50 40 30 20 10 ℄ 10 20 30 40 50

STA. 128+15 TO 129+00

DIVISION 2 OHIO F-982(1) TYPE FUNDS POST WAR 28 45

UNI.-36-(12.77-13.03)

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

131+72-35'-26" Maple - Remove

145 214

962.86
131+50
958.93

150 161

962.96
131+15
957.95

130+91-49'-27" Maple

126 70

130+98-36.5'-26" Elm Remove?

963.02
131+00
959.45

164 69

Porch House Drive +50 36

Add for Drive, Rt. 130+50

963.23
130+50
959.35

131 95

130+09-20'-14" Walnut - Remove
130+07-41'-20" Maple
130+07-27-12" Hackberry Remove

963.44
130+00
959.65

130+00

178 138 65

9585

Drive +29

129+48-31.5' 20" Apple Remove

963.65
129+50
958.62

Add for Drive, Rt. 129+25

129+00

| END AREA | | CU. YDS. | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |
| 0 | 359 | | |
| | | 0 | 434 |
| 0 | 311 | | |
| | | 0 | 141 |
| 0 | 196 | | |
| | | 0 | 20 |
| | | 0 | 397 |
| 0 | 233 | | |
| | | 0 | 425 |
| 0 | 226 | | |
| | | 6 | 502 |
| 6 | 316 | | |
| | | 0 | 38 |
| | | 6 | 579 |
| 0 | 309 | | |

STA. 129+50 TO 131+50

DIVISION 2 OHIO F-982(1) UNI.-36-(12.77-13.03)

TYPE FUNDS 29
POST WAR 45

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

955.0

256

963.88
134+50
959.13

226

F.L. 954.0

30" C.I.P.

E1. 953.03

36" Iron pipe

E1. 953.28

30" Pipe

F.L. 954.0

963.80
134+42
959.09

℄ 954.5

257

963.47
134+00
959.17

206

133+57-22'-42" Maple-Remove

℄ 954.7

222

963.16
133+50
958.83

162

℄ 955.2

220

962.94
133+00
958.89

154

132+42-51'-27" Maple

202

962.82
132+50
959.12

163

132+35-16'-30" Ash-Remove

156

962.79
132+00
959.20

183

Remove
132+15'-35'-36" Sycamore
131+95'-11'-26" Ash-Remove

131+50

50 40 30 20 10 ℄ 10 20 30 40 50

| END AREA | | CU. YDS. | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |
| 1 | 482 | | |
| | | 1 | 157 |
| 7 | 576 | | |
| | | 7 | 808 |
| 2 | 463 | | |
| | | 11 | 785 |
| 10 | 384 | | |
| | | 10 | 702 |
| 1 | 374 | | |
| | | 1 | 685 |
| 0 | 365 | | |
| | | 6 | 652 |
| 6 | 339 | | |
| | | 6 | 647 |
| 0 | 359 | | |

Excavation 47 Cu.Yds.
Emb. 6760 Cu.Yds.
Emb.+20% 8112 Cu.Yds.

STA. 132+00 TO 134+50

DIVISION 2 OHIO | F-982(1) | TYPE FUNDS POST WAR 30 45

UNL.-36-(12.77-13.03)

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

133 211

967.13
137+50
961.62

137+10-41'-16" Walnut
137+03-305'-12" pine-Remove
136+79-30'-12" Ash-Remove

140 216

966.58
137+00
961.14

136+72-15'-18" Ash -Remove
136+57-33'-22" Maple.-Remove
136+33-335'-14" Maple-Remove

+47 Drive 10:1

58 133 227

Add for Drive Lt. 136+47

966.03
136+50
960.51

136+18-275'-20" Maple.-Remove
136+16-51'-12" Maple
135+96-27-24" Elm-Remove
135+78-24'-20" Maple-Remove

170 270

965.48
136+00
959.85

135+62-50'-18" Walnut
135+62-325'-16" Maple-Remove

203 295

957.0

964.93
135+50
959.61

254 293

956.0

964.38
135+00
959.37

135+00

134+50

| END AREA | | CU. YDS. | |
|---|---|---|---|
| CUT | FILL | CUT | FILL |
| 0 | 344 | | |
| | | 0 | 648 |
| 0 | 356 | | |
| | | 0 | 663 |
| | | 0 | 24 |
| 0 | 360 | | |
| | | 0 | 741 |
| 0 | 440 | | |
| | | 1 | 822 |
| 1 | 448 | | |
| | | 5 | 875 |
| 4 | 497 | | |
| | | 5 | 907 |
| 1 | 482 | | |

STA. 135+00 TO 137+50

DIVISION 2 OHIO F-982(1) TYPE FUNDS POST WAR 31 45

UNI.-36-(12.77-13.03)

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

+10-19'-18" Ash-Remove

97 45 15 1:10 Dr.

970.19
140+56
971.87

Add for Drive Rt. 140+63
Sta 140+56

Main Portion of Barn

Frame Barn

20 6 28 7

969.78
140+00
969.81

31 26 C. Pipe

969.32
139+50
967.52

85 75

968.78
139+00
965.55

Remove 7
138+77-26.5'-18" W. Cherry.

138+61-23.5'-26" Elm - Remove
138+38-24.5'-12" Catalpa - Remove

121 126

968.23
138+50
963.96

137+82-26'-24" Catalpa. - Remove

131 170

967.68
138+00
962.61

137+50

| END AREA CUT | END AREA FILL | CU. YDS. CUT | CU. YDS. FILL |
|---|---|---|---|
| | | 5 | 0 |
| 142 | 2 | | |
| | | 204 | 11 |
| 55 | 8 | | |
| | | 53 | 68 |
| 2 | 65 | | |
| | | | 2 208 |
| | | 0 | 160 |
| | | | 0 377 |
| | | 0 | 247 |
| | | | 0 508 |
| | | 0 | 301 |
| | | | 0 597 |
| | | 0 | 344 |

Excavation 1844 cu.yds.
Embankment 5641 cu.yds.
Emb. + 20 % 6769 cu.yds.

50 40 30 20 10 ℄ 10 20 30 40 50

STA. 138+00 TO 140+56

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

DIVISION 2 OHIO | PROJECT F-982(1) | TYPE FUNDS 32 | POST WAR 45

UNI - 36 - (12.77 - 13.03)

145+00
969.84

END WORK STA. 145+00 — Sta. 145+00

END PROJECT STA. 144+50 — Sta. 144+50

970.09
144+50
970.04

144+24-25'-26" Maple-Remove

970.27
144+00
970.61

143+48-23.5'-26" Catalpa. - Remove
143+17-23.5'-24" Catalpa. - Remove

143+25-21'-36" Maple - Remove

970.62
143+00
971.79

142+71-23.5'-24" Maple - Remove
142+25-22'-26" Catalpa - Remove

142+23-21.5'-36" Maple - Remove
141+93-20.5'-36" Maple - Remove

970.70
142+00
973.02

Add for Drive Rt. 141+79'

141+80-22.5'-24" Maple. - Remove

141+68-27'-14" Maple
141+42-22'-24" Maple - Remove

House

Walk

970.61
141+50
973.11

141+24-21.5'-36" Maple - Remove
141+13-51'-14" Plum
141+05-34-30" Mulberry

970.42
141+00
972.63

140+56

| END AREA CUT | END AREA FILL | CU. YDS. CUT | CU. YDS. FILL |
|---|---|---|---|
| 0 | 0 | | |
| | | 39 | 10 |
| 42 | 11 | | |
| | | 90 | 17 |
| 55 | 7 | | |
| | | 180 | 35 |
| 42 | 12 | | |
| | | 363 | 26 |
| 154 | 2 | | |
| | | 10 | 0 |
| | | 309 | 4 |
| 179 | 2 | | |
| | | 326 | 4 |
| 173 | 2 | | |
| | | 257 | 3 |
| 142 | 2 | | |

50 40 30 20 10 ℄ 10 20 30 40 50

STA. 141+00 TO 145+00

| DIVISION | | | TYPE FUNDS | 33 |
|---|---|---|---|---|
| 2 | OHIO | F-962(1) | POST WAR | 45 |

UNI.-364(2.77-13.03)

50 40 30 20 10 ℄ 10 20 30 40 50

146+00
968.81

145+50
969.35

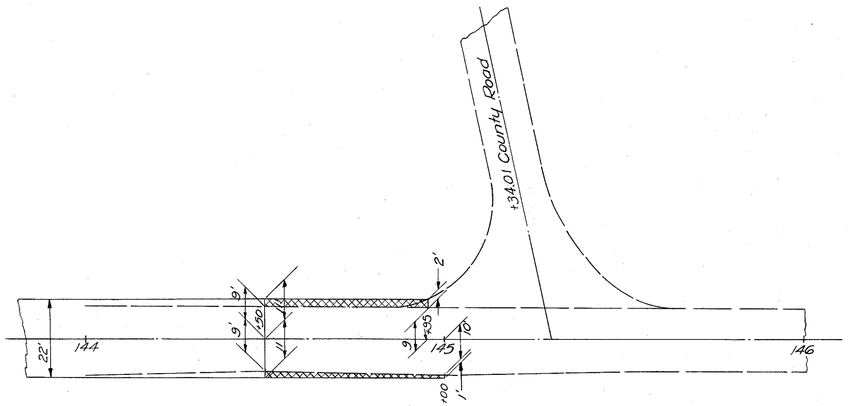
50 40 30 20 10 ℄ 10 20 30 40 50

STA. 145+50 TO 150+00

| FED. RD. DIVISION | STATE | PROJECT | TYPE FUNDS |
|---|---|---|---|
| 2 | OHIO | F-982(1) | POST WAR |

34
45

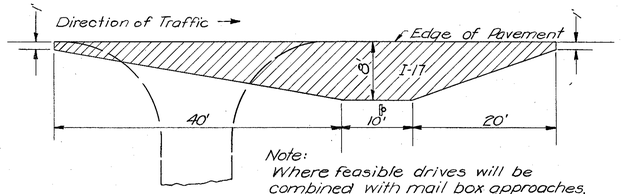
U.N.I.-36-12.77-13.03)




TRANSITION ~ WIDENING - STA. 144+50 to STA. 145+00

| | | |
|---|---|---|
| T-35 1½" Asphaltic Concrete Surface Course | 0.8 | Cu.Yds. |
| B-35 1½" Asphaltic Concrete Leveling Course | 0.8 | Cu.Yds. |
| T-30 Bituminous Prime Coat | 8.0 | Gals. |
| B-20 8" Waterbound Macadam Base Course | 23.6 | Sq.Yds. |

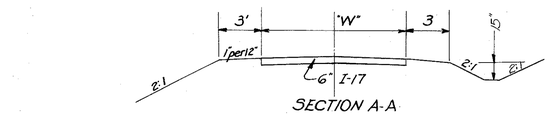
Carry to Sheet #4 Table "D"



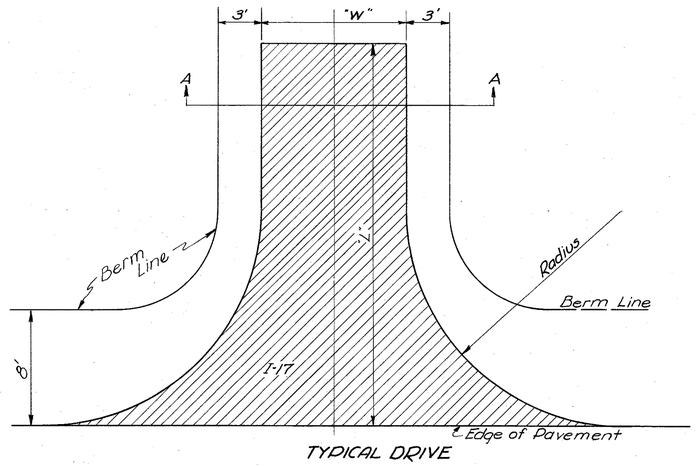

Note:
Where feasible drives will be combined with mail box approaches, in the manner shown, and the quantities adjusted by the Engineer.

TYPICAL MAIL BOX APPROACHES
ESTIMATED QUANTITIES

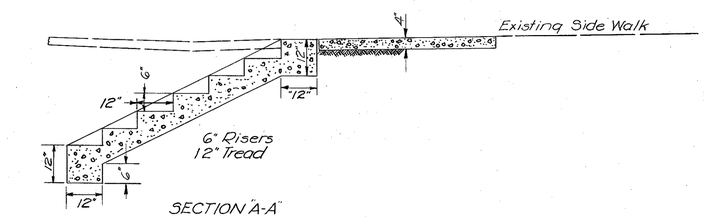
6 Mail Box Approaches @ 38.9 sq. yds. each = 233.4 sq. yds. I-17
Carry to sheet #4 Table "A"



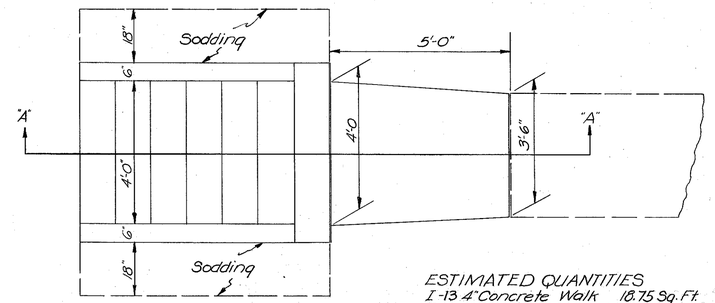

SECTION A-A




TYPICAL DRIVE




SECTION A-A




PLAN
Sta. 141+54

ESTIMATED QUANTITIES

| | | |
|---|---|---|
| I-13 4" Concrete Walk | 16.75 | Sq. Ft. |
| I-13 Concrete Steps | 35.0 | Lin. Ft. |
| L-10 Sodding | 3.0 | Sq. Yds. |

Carry to sheet #11

MISCELLANEOUS DETAILS

| FED. RD. DIVISION | STATE | PROJECT | TYPE FUNDS |
|---|---|---|---|
| 2 | OHIO | F-982(1) | POST WAR |

35/45

UNI.-36-(12.77-13.03)

## SUPER ELEVATION TABLE

P.C.-103+29.53 — D 0°30' Rt. — P.T.-114+69.53

| Elevation Lt. Edge | Width | Super Elevation | Station | ℄ Elevation | Super Elevation | Width | Elevation Rt. Edge |
|---|---|---|---|---|---|---|---|
| 977.03 | 11.0 | 0.00 | 102+00 | 977.20 | 0.00 | 11.0 | 977.03 |
| 976.88 | | 0.02 | +25 | 977.03 | | | 976.86 |
| 976.75 | | 0.06 | +50 | 976.86 | | | 976.69 |
| 976.63 | | 0.11 | +75 | 976.69 | | | 976.52 |
| 976.52 | | 0.17 | 103+00 | 976.52 | | | 976.35 |
| 976.40 | | 0.22 | +25 | 976.35 | | | 976.18 |
| 976.29 | | 0.28 | +50 | 976.18 | | | 976.01 |
| 976.16 | | 0.32 | +75 | 976.01 | | | 975.84 |
| 976.01 | | 0.34 | 104+00 | 975.84 | | | 975.67 |
| 975.84 | | | +25 | 975.67 | | | 975.50 |
| 975.67 | | | +50 | 975.50 | | | 975.33 |
| 975.50 | | | +75 | 975.33 | | | 975.16 |
| 975.33 | | | 105+00 | 975.16 | | | 974.99 |
| 975.16 | | | +25 | 974.99 | | | 974.82 |
| 974.99 | | | +50 | 974.82 | | | 974.65 |
| 974.82 | | | +75 | 974.65 | | | 974.48 |
| 974.65 | | | 106+00 | 974.48 | | | 974.31 |
| 974.48 | | | +25 | 974.31 | | | 974.14 |
| 974.31 | | | +50 | 974.14 | | | 973.97 |
| 974.14 | | | +75 | 973.97 | | | 973.80 |
| 973.97 | | | 107+00 | 973.80 | | | 973.63 |
| 973.80 | | | +25 | 973.63 | | | 973.46 |
| 973.63 | | | +50 | 973.46 | | | 973.29 |
| 973.46 | | | +75 | 973.29 | | | 973.12 |
| 973.29 | | | 108+00 | 973.12 | | | 972.95 |
| 973.12 | | | +25 | 972.95 | | | 972.78 |
| 972.95 | | | +50 | 972.78 | | | 972.61 |
| 972.78 | | | +75 | 972.61 | | | 972.44 |
| 972.61 | | | 109+00 | 972.44 | | | 972.27 |
| 972.44 | | | +25 | 972.27 | | | 972.10 |
| 972.27 | | | +50 | 972.10 | | | 971.93 |
| 972.10 | | | +75 | 971.93 | | | 971.76 |
| 971.93 | | | 110+00 | 971.76 | | | 971.59 |
| 971.76 | | | +25 | 971.59 | | | 971.42 |
| 971.59 | | | +50 | 971.42 | | | 971.25 |
| 971.42 | | | +75 | 971.25 | | | 971.08 |
| 971.25 | | | 111+00 | 971.08 | | | 970.91 |
| 971.08 | | | +25 | 970.91 | | | 970.74 |
| 970.91 | | | +50 | 970.74 | | | 970.57 |
| 970.74 | | | +75 | 970.57 | | | 970.40 |
| 970.57 | | | 112+00 | 970.40 | | | 970.23 |
| 970.40 | | | +25 | 970.23 | | | 970.06 |
| 970.23 | | | +50 | 970.06 | | | 969.89 |
| 970.06 | | | +75 | 969.89 | | | 969.72 |
| 969.89 | | | 113+00 | 969.72 | | | 969.55 |
| 969.72 | | | +25 | 969.55 | | | 969.38 |
| 969.55 | | | +50 | 969.38 | | | 969.21 |
| 969.38 | | | +75 | 969.21 | | | 969.04 |
| 969.21 | | 0.34 | 114+00 | 969.04 | | | 968.87 |
| 969.02 | | 0.32 | +25 | 968.87 | | | 968.70 |
| 968.81 | | 0.28 | +50 | 968.70 | | | 968.53 |
| 968.58 | | 0.22 | +75 | 968.53 | | | 968.36 |
| 968.36 | | 0.17 | 115+00 | 968.36 | | | 968.19 |
| 968.13 | | 0.11 | +25 | 968.19 | | | 968.02 |
| 967.91 | | 0.06 | +50 | 968.02 | | | 967.85 |
| 967.70 | | 0.02 | +75 | 967.85 | | | 967.68 |
| 967.51 | 11.0 | 0.00 | 116+00 | 967.68 | 0.00 | 11.0 | 967.51 |

## SUPER-ELEVATION TABLE

T.S.-126+70.54 — D=4°00' Rt. — S.T.-135+29.08

| Elevation Lt. Edge | Width | Super Elevation | Station | Profile Elevation | Super Elevation | Width | Elevation Rt. Edge |
|---|---|---|---|---|---|---|---|
| 964.97 | 11.0 | 0.00 | 125+75 | 965.14 | 0.00 | 11.0 | 964.97 |
| 964.92 | | 0.01 | 126+00 | 965.08 | | | 964.91 |
| 964.89 | | 0.05 | +25 | 965.01 | | | 964.84 |
| 964.86 | | 0.12 | +50 | 964.91 | | | 964.74 |
| 964.84 | | 0.19 | +70.54 | 964.82 | | | 964.65 |
| 964.85 | | 0.34 | 127+05.54 | 964.68 | | | 964.51 |
| 964.86 | | 0.50 | +40.54 | 964.53 | | | 964.36 |
| 964.89 | | 0.68 | +75.54 | 964.38 | | | 964.21 |
| 964.93 | | 0.86 | 128.+10.54 | 964.24 | | | 964.07 |
| 964.96 | | 1.04 | +45.54 | 964.09 | | | 963.92 |
| 964.99 | | 1.22 | +80.54 | 963.94 | | | 963.77 |
| 965.01 | | 1.38 | 129+15.54 | 963.80 | | | 963.63 |
| 965.04 | | 1.56 | +50.54 | 963.65 | | | 963.48 |
| 965.07 | | 1.69 | +75 | 963.55 | | | 963.38 |
| 965.05 | | 1.72 | +85.54 | 963.50 | | | 963.33 |
| 965.05 | | 1.78 | 130+00 | 963.44 | | | 963.27 |
| 964.98 | | 1.80 | +20.54 | 963.35 | | | 963.18 |
| 964.99 | | 1.82 | +25 | 963.34 | | | 963.17 |
| 964.88 | | 1.82 | +50 | 963.23 | | | 963.06 |
| 964.78 | | 1.82 | +75 | 963.13 | | | 962.96 |
| 964.70 | | 1.82 | 131+00 | 963.02 | | | 962.85 |
| 964.56 | | 1.80 | +25 | 962.93 | | | 962.76 |
| 964.48 | | 1.79 | +50 | 962.86 | | | 962.69 |
| 964.43 | | 1.78 | +75 | 962.82 | | | 962.65 |
| 964.40 | | 1.76 | +79.08 | 962.81 | | | 962.64 |
| 964.30 | | 1.68 | 132+14.08 | 962.79 | | | 962.62 |
| 964.28 | | 1.65 | +25 | 962.80 | | | 962.63 |
| 964.20 | | 1.56 | +49.08 | 962.81 | | | 962.64 |
| 964.10 | | 1.38 | +84.08 | 962.89 | | | 962.72 |
| 964.06 | | 1.22 | 133+19.08 | 963.01 | | | 962.84 |
| 964.04 | | 1.04 | +54.08 | 963.17 | | | 963.00 |
| 964.08 | | 0.86 | +89.08 | 963.39 | | | 963.22 |
| 964.16 | | 0.68 | 134+24.08 | 963.65 | | | 963.48 |
| 964.29 | | 0.50 | +59.08 | 963.96 | | | 963.79 |
| 964.48 | | 0.34 | +94.08 | 964.31 | | | 964.14 |
| 964.83 | | 0.19 | 135+29.08 | 964.81 | | | 964.64 |
| 964.88 | | 0.12 | +50 | 964.93 | | | 964.76 |
| 965.09 | | 0.05 | +75 | 965.21 | | | 965.04 |
| 965.31 | 11.0 | 0.00 | 136+00 | 965.48 | 0.00 | 11.0 | 965.31 |

SUPER ELEVATION TABLES

| End Area | | Cu Yds. | |
|---|---|---|---|
| Cut | Fill | Cut | Fill |
| | | 30 | 0 |
| 136 | 0 | | |
| | | 33 | 0 |
| 223 | 0 | | |
| | | 391 | 0 |
| 279 | 0 | | |
| | | 392 | 0 |
| 326 | 0 | | |
| | | 495 | 0 |
| 417 | 0 | | |
| | | 801 | 0 |
| 384 | 0 | | |
| | | 65 | 0 |
| 203 | 0 | | |
| | | 80 | 0 |
| Total | | 2287 | 0 |

Carry to Sheets # 4 & # 42

Estimated Cut for dressing Bridge end at Sta. 127+20

136

126+82
961.21

223

126+77
961.44

157 122

126+35
962.13

168 158

126+00
962.92

217 200

125+64
964.19

252 132

955.0
125+10
964.55

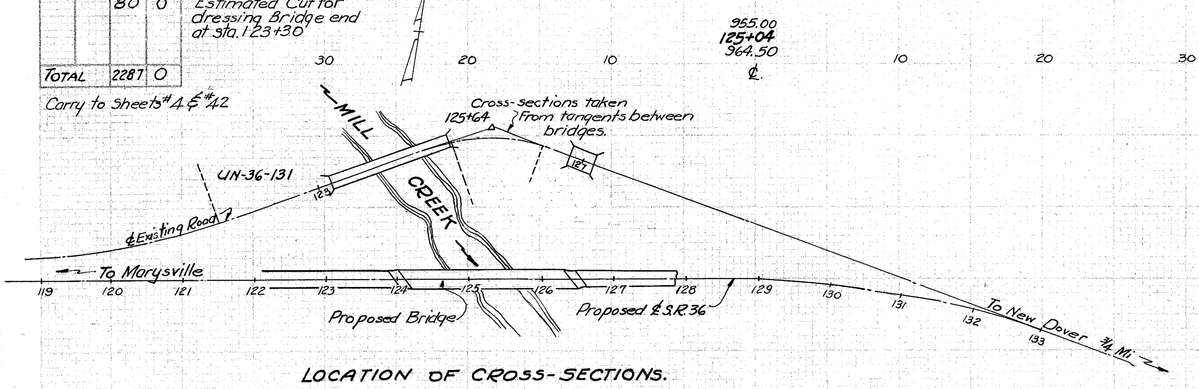
203

955.00
125+04
964.50

Estimated Cut for dressing Bridge end at Sta. 123+30

℄

30 20 10 ℄ 10 20 30 40 50




LOCATION OF CROSS-SECTIONS.

CROSS-SECTIONS BETWEEN BRIDGES.

UNI-36-(12.77-13.03)

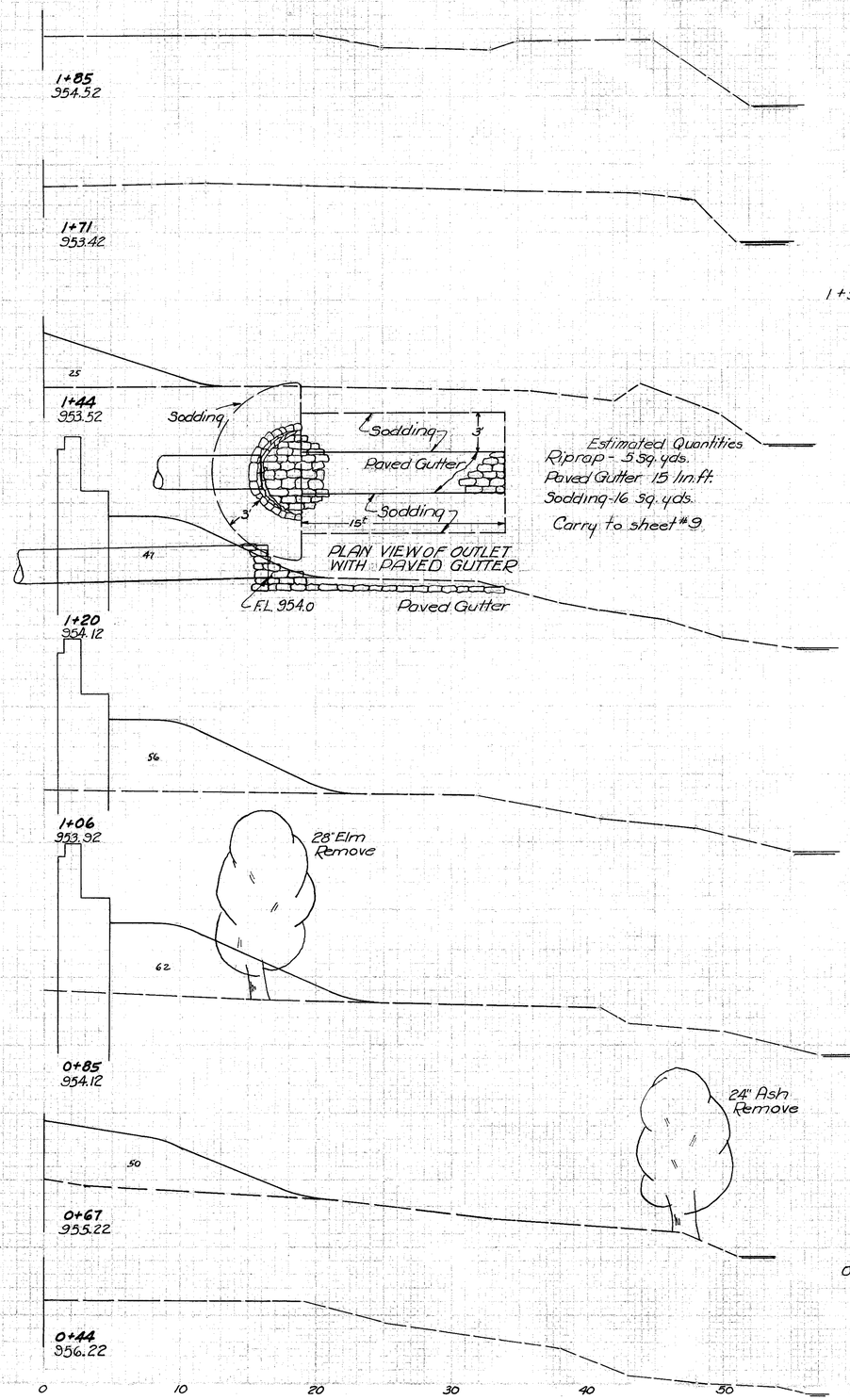
F-982(1) POST WAR

2

36
45

DIVISION 2 | OHIO | F-982(1) | TYPE FUNDS POST WAR | 37/45

UNI.-36-(12.77-13.03)

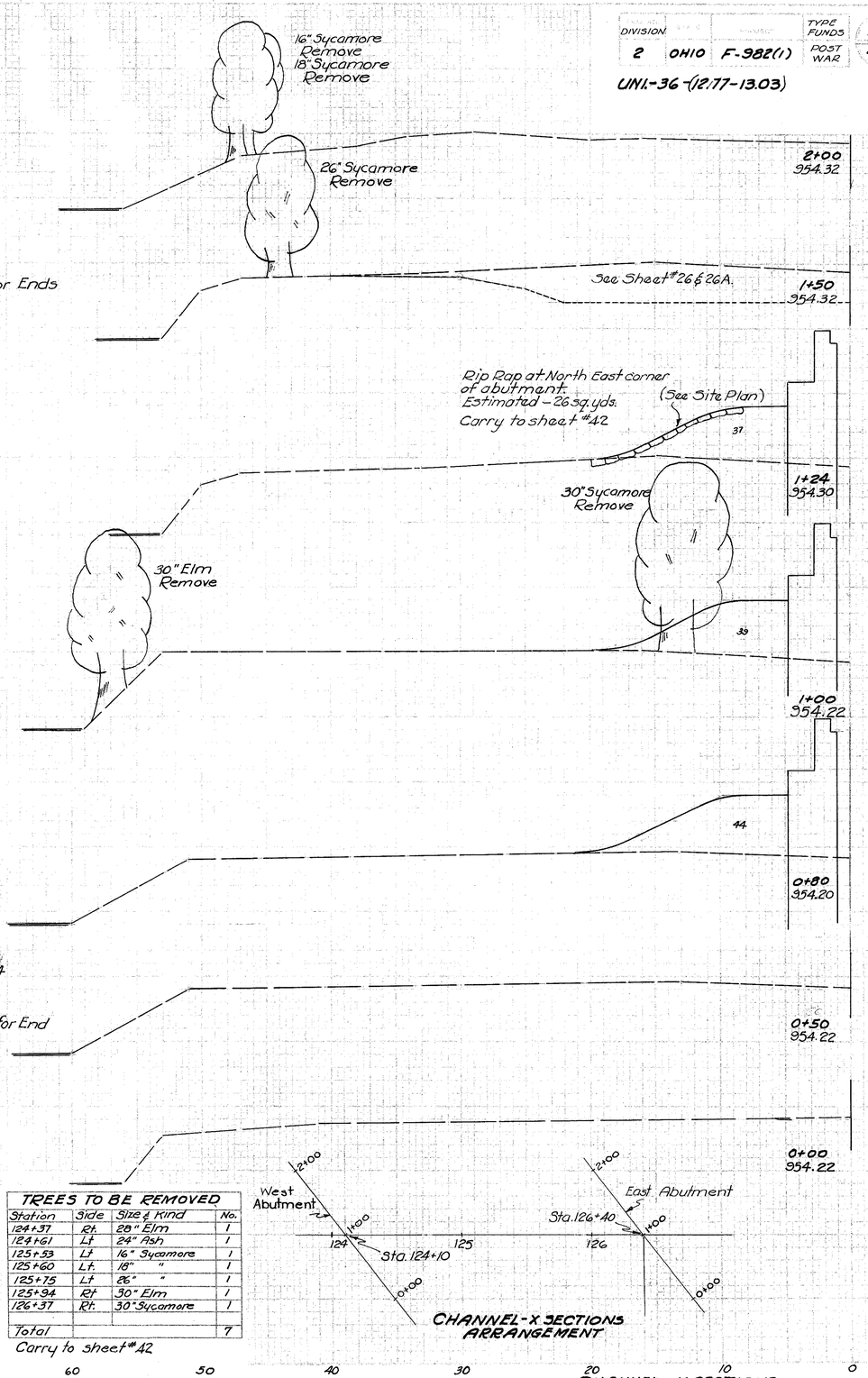



Estimated Quantities
Riprap - 5.5 sq. yds.
Paved Gutter 15 lin. ft.
Sodding - 16 sq. yds.
Carry to sheet #9

| | END AREA CUT | END AREA FILL | CU. YDS. CUT | CU. YDS. FILL |
|---|---|---|---|---|
| | | | | |
| 1+53 | 0 | 0 | | |
| | | | 0 | 4 |
| | 0 | 25 | | |
| | | | 0 | 32 |
| | 0 | 47 | | |
| | | | 0 | 27 |
| | 0 | 56 | | |
| | | | 0 | 46 |
| | 0 | 62 | | |
| | | | 0 | 37 |
| | 0 | 50 | | |
| | | | 0 | 7 |
| 0+59 | 0 | 0 | | |
| TOTAL | | | 0 | 153 |

| | END AREA CUT | END AREA FILL | CU. YDS. CUT | CU. YDS. FILL |
|---|---|---|---|---|
| | | | | |
| | | | 0 | 9 |
| Add for Ends | | | | |
| 1+30 | 0 | 0 | | |
| | | | 0 | 4 |
| | 0 | 37 | | |
| | | | 0 | 34 |
| | 0 | 39 | | |
| | | | 0 | 31 |
| | 0 | 44 | | |
| | | | 0 | 5 |
| | 0 | 0 | | |
| 0+74 | | | | |
| | | | 0 | 21 |
| Add for End | | | | |
| TOTAL | | | 0 | 104 |

Total 153 + 104 = 257 Cu. Yds.
Carry to sheet #25




| TREES TO BE REMOVED | | | |
|---|---|---|---|
| Station | Side | Size & Kind | No. |
| 124+37 | Rt. | 28" Elm | 1 |
| 124+61 | Lt. | 24" Ash | 1 |
| 125+53 | Lt. | 16" Sycamore | 1 |
| 125+60 | Lt. | 18" " | 1 |
| 125+75 | Lt. | 26" " | 1 |
| 125+94 | Rt. | 30" Elm | 1 |
| 126+37 | Rt. | 30" Sycamore | 1 |
| | | | |
| Total | | | 7 |

Carry to sheet #42

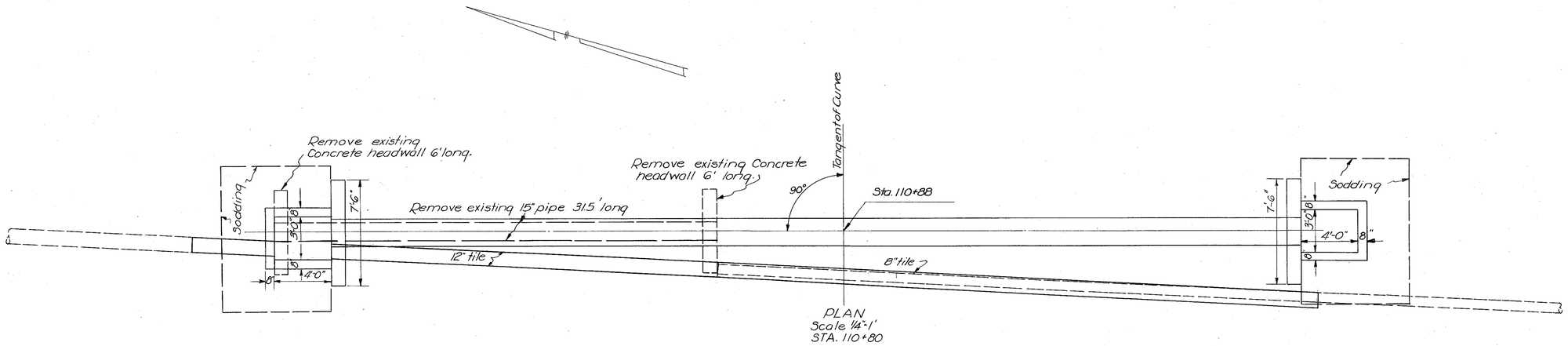
CHANNEL - X SECTIONS ARRANGEMENT

CHANNEL - X SECTIONS

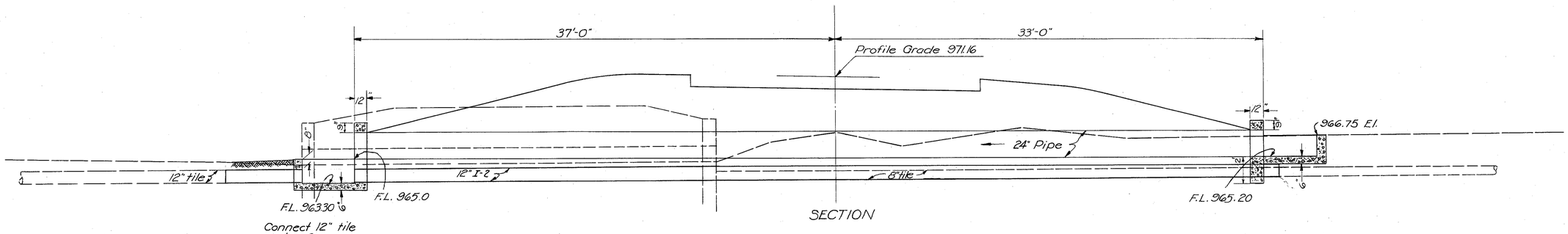
| FED. RD. DIVISION | STATE | PROJECT | TYPE FUNDS |
|---|---|---|---|
| 2 | OHIO | F-982(1) | POST WAR |

38
45

UNI.-36-(12.77-13.03)




PLAN
Scale 1/4"-1'
STA. 110+80




SECTION

## CULVERT DATA

TYPE: Pipe Culvert Std. Dwg. No. S-27 RC.-3
SIZE: 24" x 70'-0"
WORK REQ'D.: Remove existing pipe culvert and concrete headwalls. Build 24" pipe culvert with concrete headwalls and concrete boxes as shown. Replace existing tile under pavement with new 12" pipe and connect into box at left.

## ESTIMATED QUANTITIES

| | | | |
|---|---|---|---|
| E-2 | Excavation for Structures | 18 | Cu. Yds. |
| S-24 | Removal of Existing Structure | | Lump Sum |
| S-27 | 24" Pipe for Roadway Culverts | 70 | Lin. Ft. |
| I-2 | 12" Pipe Under Pavement | 80 | Lin. Ft. |
| S-1 | Concrete for Structures - Class "C" | 4.2 | Cu. Yds. |
| L-10 | Sodding | 12 | Sq. Yds. |

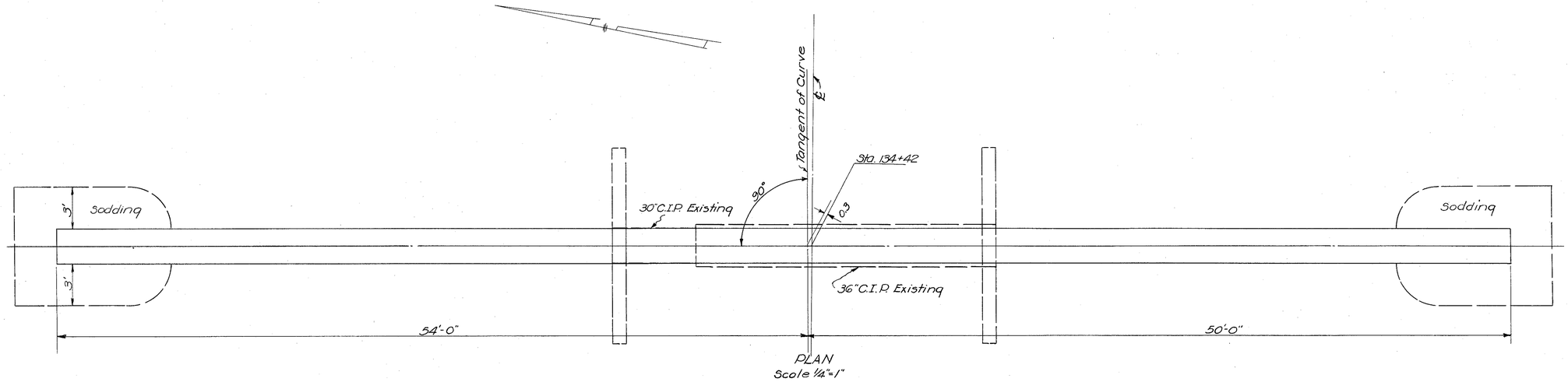
Note:
Removal of existing pipe included with Item I-2 Pipe Under Pavement for payment.

STRUCTURE UN-36-129

| FED. RD. DIVISION | STATE | PROJECT | TYPE FUNDS |
|---|---|---|---|
| 2 | OHIO | F-982(1) | POST WAR |

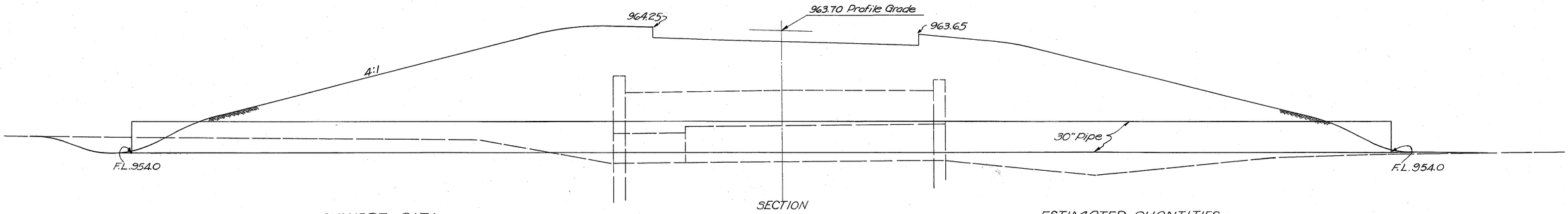
39
45

UNI.-36-(12.77-13.03)




PLAN
Scale 1/4"=1'

UN.-36-134




SECTION

## CULVERT DATA

TYPE: Pipe Culvert ~ Std. Dwg. No. S-27 P.C.3
SIZE : 30" x 104' Lg.
WORK REQ'D. Remove existing culvert and concrete headwalls. Build new 30"x104' pipe culvert with sodding around ends as shown.

## ESTIMATED QUANTITIES

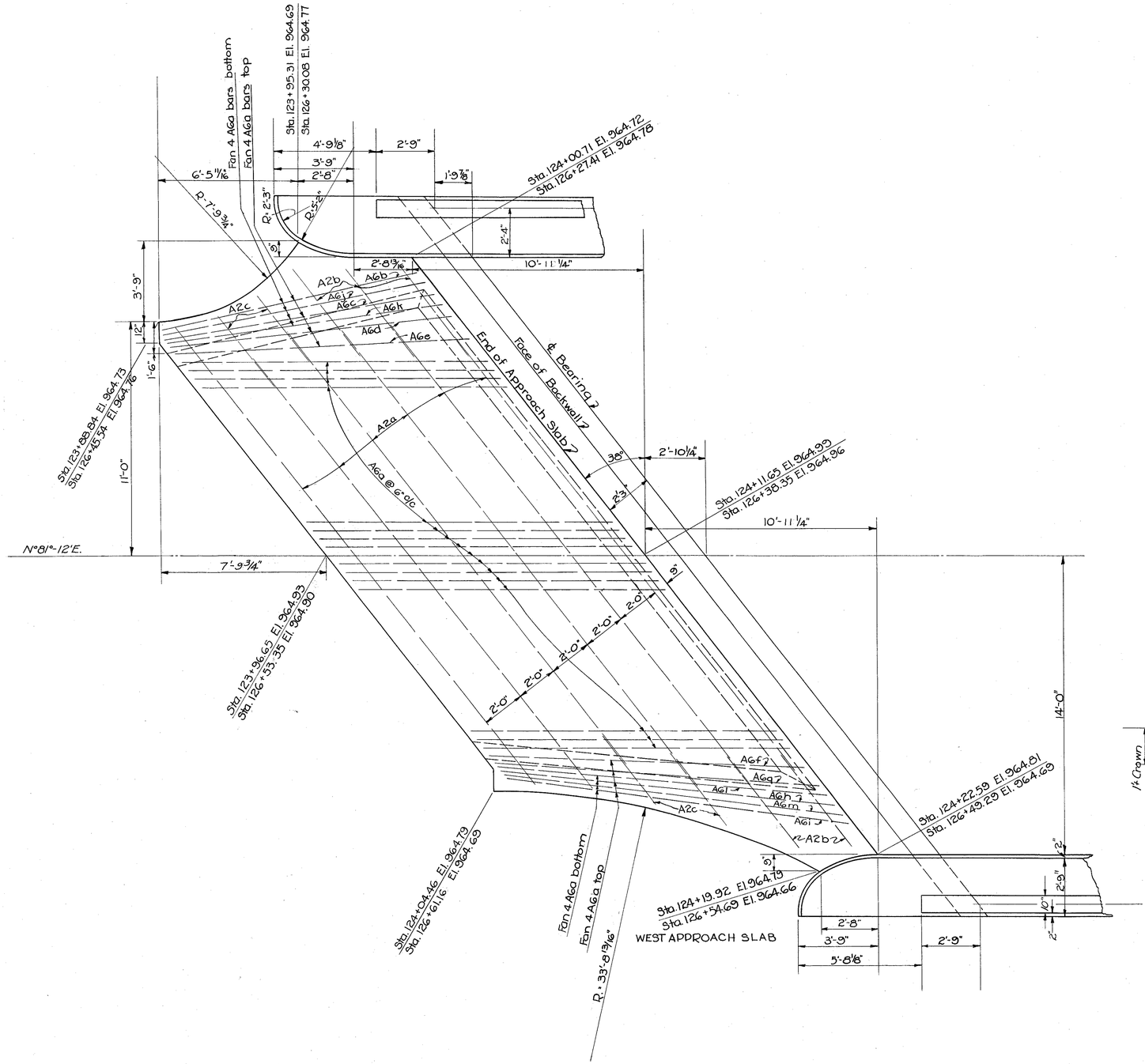
| | | |
|---|---|---|
| E-2 | Excavation for Structures | 5.0 Cu. Yds. |
| S-24 | Removal of Existing Structures | Lump Sum |
| S-27 | 30" Pipe for Roadway Culverts | 104.0 Lin Ft. |
| L-10 | Sodding | 18.0 Sq. Yds. |

STRUCTURE No. UN.-36-134

| FED. RD. DIVISION | STATE | PROJECT | TYPE FUNDS |
|---|---|---|---|
| 2 | OHIO | F-982(1) | POST WAR |

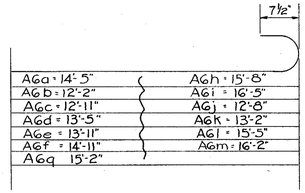
40
45

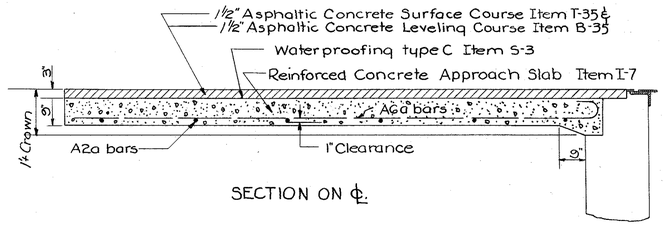
UNI.-36-(12.77-13.03)




## STEEL LIST

| Mark | Size | Shape | Number | Length | Wt. |
|---|---|---|---|---|---|
| A2a | ½"ϕ | Str. | 6 | 27'-6" | 110 |
| A2b | ½"ϕ | Str. | 5 | 5'-6" | 18 |
| A2c | ½"ϕ | Str. | 4 | 4'-0" | 11 |
| A6a | ⅞"ϕ | Bent | 47 | 15'-3" | 1465 |
| A6b | | | 2 | 13'-0" | 53 |
| A6c | | | 2 | 13'-9" | 56 |
| A6d | | | 1 | 14'-3" | 29 |
| A6e | | | 1 | 14'-9" | 30 |
| A6f | | | 1 | 15'-9" | 32 |
| A6g | | | 1 | 16'-0" | 33 |
| A6h | | | 2 | 16'-6" | 67 |
| A6i | | | 2 | 17'-3" | 71 |
| A6j | | | 1 | 13'-6" | 28 |
| A6k | | | 1 | 14'-0" | 29 |
| A6l | | | 1 | 16'-3" | 33 |
| A6m | ⅞"ϕ | Bent | 1 | 17'-0" | 35 |
| | | | | | |
| Total | | | | | 2100# |




SECTION ON ℄

## ESTIMATED QUANTITIES

| | |
|---|---|
| Item I-7 Reinforeed Concrete Approach Slab 9" | 90.0 Sq. Yds. |
| Item S-3 Waterproofing Type "C" | 90.0 Sq. Yds. |
| Item T-35 1½" Asphaltic Concrete Surface Course | 3.7 Cu. Yds. |
| Item B-35 1½" Asphaltic Concrete Leveling Course | 3.7 Cu. Yds. |

APPROACH SLABS

| FED. RD. DIVISION | STATE | PROJECT | TYPE FUNDS POST WAR |
|---|---|---|---|
| 2 | OHIO | F-982(1) | |

41/45

UNI. 36-(12.77-13.03)

24" Syc.

2.2± miles E. of Marysville

27" Sycamore

14" Willow

16" Willow

3-14" Willows
1-10" "

PI 125+83.5

Bridge No. UN-36-131

Removal of this abutment included in channel excavation quantities.

Bridge No. UN-36-132

Remove to El. 955.0

Removal of this abutment included in channel excavation quantities.

Deposit waste from channel excavation in this area and slope to drain.

End Appr. Slab
Sta. 124 + 11.65

℄ W. Pier
Sta. 124 + 82.5

℄ E. Pier
Sta. 125+67.5

Begin Appr. Slab
Sta. 126 + 38.35

12" Ash

B.M. Station 124+60 Left.
S.E. Corner South Wing of East Abutment. Mill Creek Bridge.
Elev. 963.77

## PROPOSED STRUCTURE

**TYPE:** Continuous steel beam with concrete deck and concrete substructure.
**SPAN:** 68'-85'-68' % bearing
**RDWY:** 28' + 1'-9" safety curbs
**LOADING:** S-15-46
**SKEW:** 38° R.F.
**SURF. COURSE:** Bituminous
**APPROACH SLABS:** As shown.

21" Sycamore

Transition 4:1 to 2:1

2-12" Poplars

16" Sycamore

18" Sycamore

Riprap

26" Sycamore (To be removed)

N 81°12'E

(24" Ash (To be removed)

26" Elm

30" Sycamore

30" Elm

P.C. 128+46.13

Foundation design and foundation quantities are based on a study of rod soundings made at the site.
This sounding information may be inspected in the office of the Bureau of Bridges in Columbus or in an abridged form in the Division Office, but the State assumes no responsibility for the accuracy thereof.

Transition 4:1 to 2:1

℄ BRIDGE
STA. 125+25

250' V.C. BRIDGE LIMITS

Bridge Sta. 125+25 El. 965.19
P.I. Sta. 125+25 El. 965.44

P.C. El. 964.94
Sta. 124+00

Sta. 124+11.65

2-14 Willows

P.I. Sta. 126+50.0

P.T. El. 964.91
Sta. 126+38.3

T.S. Sta. 126+70.54

24" Ash

Clear 1937 High Water 2.2' ±

| TREES TO BE REMOVED (Item E-9) | | |
|---|---|---|
| TREE | STATION | OFFSET |
| 24" Ash | 124 + 61 | 3' ± Lt ℄ |
| 26" Sycamore | 125 + 75 | 15' ± Rt ℄ |
| 28" Elm | 124 + 37 | 8' ± Rt. ℄ |
| 16" Sycamore | 125 + 53 | 37' Lt. ℄ |
| 18" Sycamore | 125 + 60 | 30' Lt. ℄ |
| 30" Elm | 125 + 94 | 30' Rt. ℄ |
| 30" Sycamore | 126 + 37 | 14' Rt. ℄ |

964.54

964.70

Bench El. 959.0

Bench El. 959.0

+0.40%

-0.42%

1937 Flood 958.6

1913 Flood 962.1

Normal Water 950.0

12" cast-in-place reinf. conc. piling. Estimated average length = 27'

Slope 2:1 (Normal)

Slope 2:1 (Normal)

12" cast-in-place reinf. conc. piling Estimated average length = 27'

Footing El. 943.0 ±

Timber piling with steel pile points Estimated average length = 18'

970 960 950 940 930 920

122 +50 123 +50 +60 +79 124 +27 +60 125 +27 +40 +59 126 +92 126 +33 +50 127 +29

## EXISTING BRIDGE DATA-UN-36-131

SUPERSTRUCTURE: None.
SUBSTRUCTURE: Fair (to be removed)

## EXISTING BRIDGE DATA-UN-36-132

**TYPE:** Concrete Beam
**SPAN:** 36'-0" clear
**ROADWAY:** 23'-9" between curbs
**SKEW:** 0°
**CONDITION:** Superstructure, fair; substruc. fair.
**DATE BUILT:** No record.
To be removed.

**DRAINAGE AREA: 95.8 Sq. Mi.**

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

# SITE PLAN

## BRIDGE No. UN-36-132 over MILL CREEK

UNION CO. U.S.R. 36
SEC. UNI-36-(12.77-13.03)
SCALE 1"=20' Date

| PRESENT TOPOG. | | PROPOSED WORK | | | |
|---|---|---|---|---|---|
| SURVEY | DRAWN | DESIGNED | DRAWN | CHECKED | REVISED |
| W.R.J. | A.E.S. | D.L. | D.L. | J.W.B. | 3-24-4. |

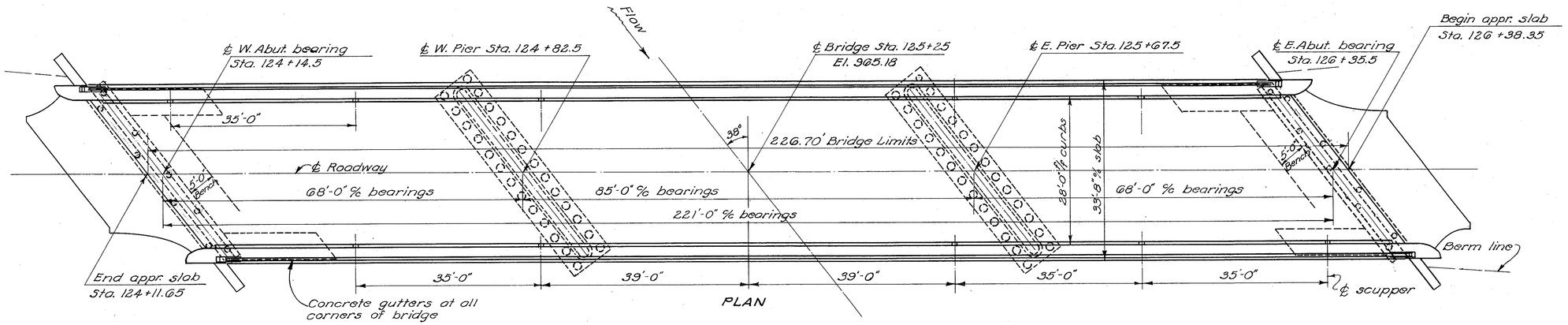
Revised 3-22-50

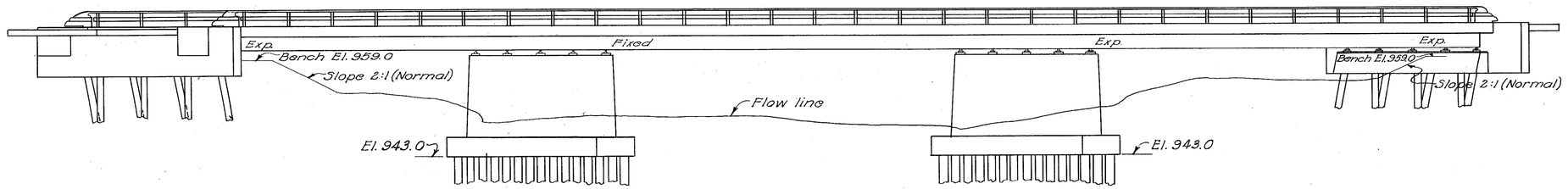
BFG W.H.C. 3-10-50

| FED. RD. DIVISION | STATE | PROJECT | TYPE FUNDS |
|---|---|---|---|
| 2 | OHIO | F-982(1) | POST WAR |

42
45

UNI-36-(12.77-13.03)




## GENERAL NOTES

REFERENCE shall be made to Standard Drawing CSB-1-47, revised 8-25-49.

REMOVAL OF EXISTING BRIDGES
Superstructure of Bridge No. UN-36-131 collapsed March 3, 1950 and has been removed from the site.
Superstructure of Bridge No. UN-36-132 shall be removed.
Substructure of bridge No. UN-36-131 shall be removed to El. 955.0.
Substructure of bridge No. UN-36-132 shall be removed to 6" below proposed ground line and the ground in back of the East abutment dressed to 2:1 slope. Suitable waste masonry may be used as bank protection at the direction of the Engineer.

EXCAVATION quantity includes the removal of fill material between top of earth bench and bottom of abutment crossbeam.

PILING shall be driven to a minimum capacity of 20 tons at the piers and 26 tons at the abutments.

SURFACE FINISH OF CONCRETE
Fascias of deck, curbs and railing and posts shall receive a rubbed surface finish. All other exposed surfaces shall be governed by the provisions of Item 54.

BITUMINOUS SURFACE COURSE
2½ Asphaltic concrete surface course, Item T-35, laid in two 1¼" courses.

CONCRETE GUTTERS shall be 6 feet wide and 6 inches thick, and shall be depressed 6 inches at the center. They shall extend from face of abutment down to existing ground and shall be centered under scuppers. Reinforcing bars ½"ø @ 1'-6" centers, both directions, included in price per linear foot.

## ESTIMATED QUANTITIES

| Item | Total | Unit | Description | Superstr. | Abuts. | Piers | General | As Built | |
|---|---|---|---|---|---|---|---|---|---|
| E-2 | Lump | Sum | Cofferdams, cribs and sheeting | | | | Lump | | |
| E-2 | 280 | Cu. Yd. | Unclassified excavation | | 80 | 200 | | | |
| E-3 | 2287 | Cu. Yd. | Channel excavation | | | | 2287 | | |
| E-9 | 7 | Each | Removal of trees within bridge limits | | | | 7 | | |
| | | | | | | | | | |
| S-1 | 197 | Cu. Yd. | Class "C" concrete - superstructure | 197 | | | | | |
| S-1 | 103 | Cu. Yd. | Class "E" concrete - abutments | | 103 | | | | |
| S-1 | 100 | Cu. Yd. | Class "E" concrete - pier walls | | | 100 | | | |
| S-1 | 71 | Cu. Yd. | Class "E" concrete - pier footings | | | 71 | | | |
| S-3 | 683 | Sq. Yd. | Type "C" waterproofing | 683 | | | | | |
| S-4 | 60,603 | Lb. | Reinforcing steel | 46,555 | 9048 | 4938 | 62 | | |
| S-7 | ~~260720~~ | Lb. | Structural steel | ~~260,720~~ | | | | + 189 | 260,909 |
| S-8 | ~~260720~~ | Lb. | Field painting of structural steel | ~~260,720~~ | | | | + 189 | 260,909 |
| S-14 | 453 | Lin. Ft. | Railing (steel with concrete end posts) | 453 | | | | | |
| S-16 | Lump | Sum | First test pile (timber or concrete) | | | | Lump | | |
| S-18 | ~~940~~ | Lin. Ft. | Timber piling (untreated) | | | ~~940~~ | | + 188 | 1128 |
| S-18 | ~~486~~ | Lin. Ft. | 12" cast-in-place reinforced concrete piling | | ~~486~~ | | | - 53 | 433 |
| S-18 | 52 | Each | Steel pile points | | | 52 | | | |
| S-24 | Lump | Sum | Removal of existing structures | | | | Lump | | |
| S-29 | 444 | Lin. Ft. | Subdrainage for wearing surface course | 444 | | | | | |
| | | | | | | | | | |
| I-10 | ~~26~~ | Sq. Yd. | Type "A" riprap | | | | ~~26~~ | + 4 | 30 |
| I-14 | 76 | Lin. Ft. | Concrete gutter | | | | 76 | | |
| | | | | | | | | | |
| T-35 | 47 | Cu. Yd. | Asphaltic concrete surface course, Type A or C | 47 | | | | | |
| | | | | | | | | | |

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES AND RAILROAD CROSSINGS

GENERAL PLAN & ELEVATION
NOTES & ESTIMATED QUANTITIES
BRIDGE NO. UN-36-132
OVER MILL CREEK
UNION COUNTY STA-125+25
SEC. UNI-36 (12.77-13.03)

| DESIGNED | DRAWN | TRACED | CHECKED | REVIEWED | DATE | REVISED |
|---|---|---|---|---|---|---|
| D.L. | D.L. | J.D.J. | N.E.Y. | BFG WHC | 3-10-50 | |

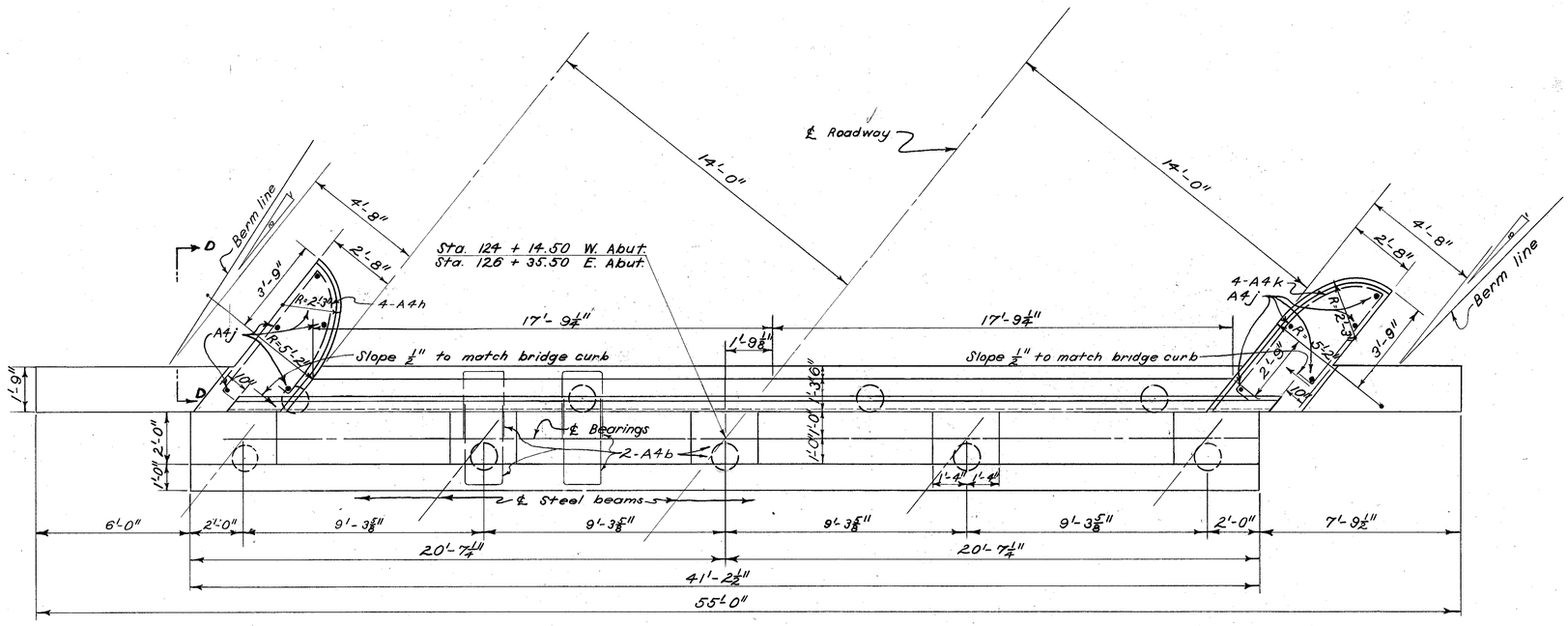
P.G.
Revised As-Built

EUGENE DIETZGEN CO. PRINTED ON IMPERIAL TRACING CLOTH FORM NO. 5525

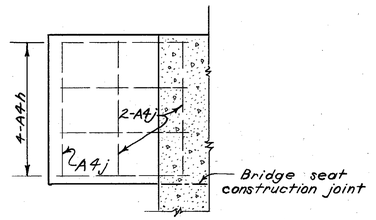
| FED. RD. DIVISION | STATE | PROJECT | TYPE FUNDS |
|---|---|---|---|
| 2 | OHIO | F-982(1) | POST WAR |

43/45

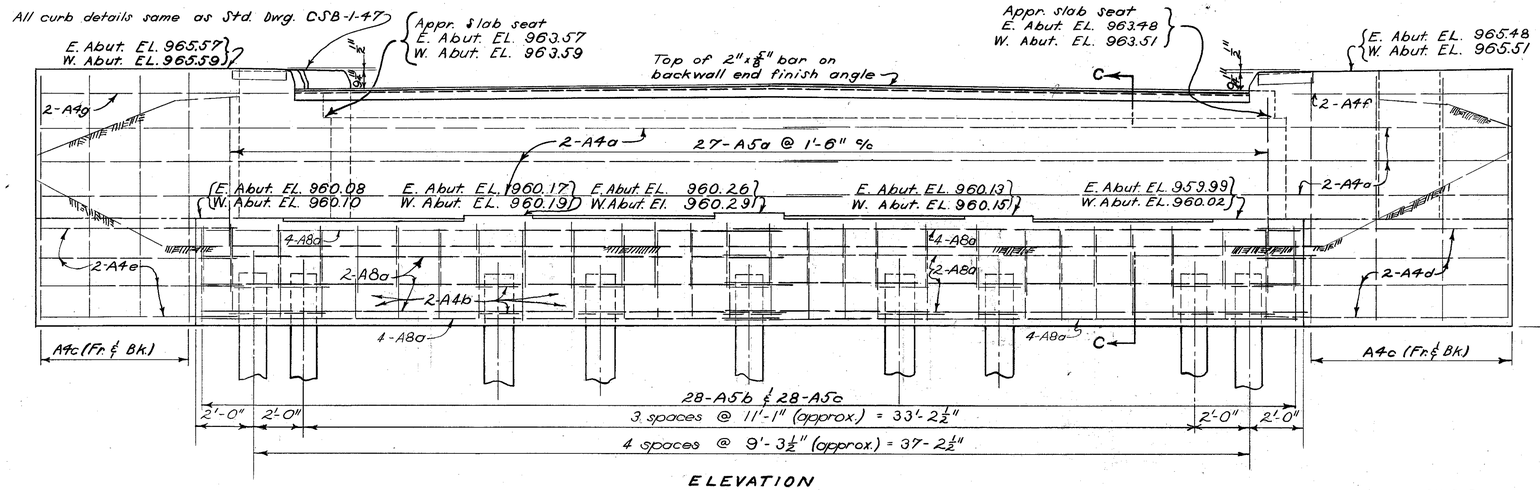
UNI-36-(12.77-13.03)



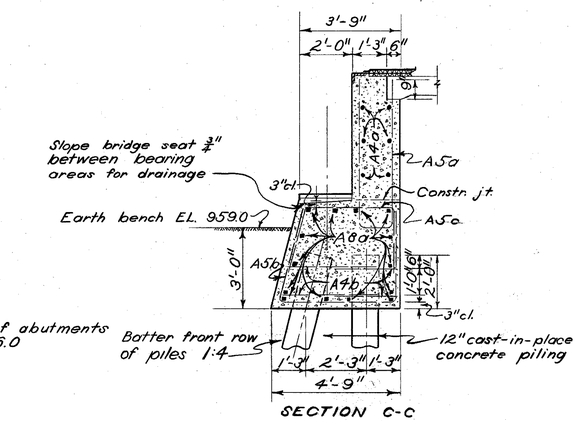

PLAN




SECTION D-D




ELEVATION




SECTION C-C

NOTES

REINFORCING STEEL CLEARANCE: All reinforcing shall be 2" clear from surface of concrete unless otherwise shown.

EARTH FILL around abutments shall be made full height of earth bench. Excavation shall then be made for abutment cap, after which piling shall be driven. If bottom forms for abutment cap are used, they shall be left in place.

BRIDGE SEAT PROCEDURE: Concrete above bridge seat construction joint shall not be placed until after steel work is erected. Steel end finish shall be used as a template for top of backwall.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES AND RAILROAD CROSSINGS

# ABUTMENT DETAILS

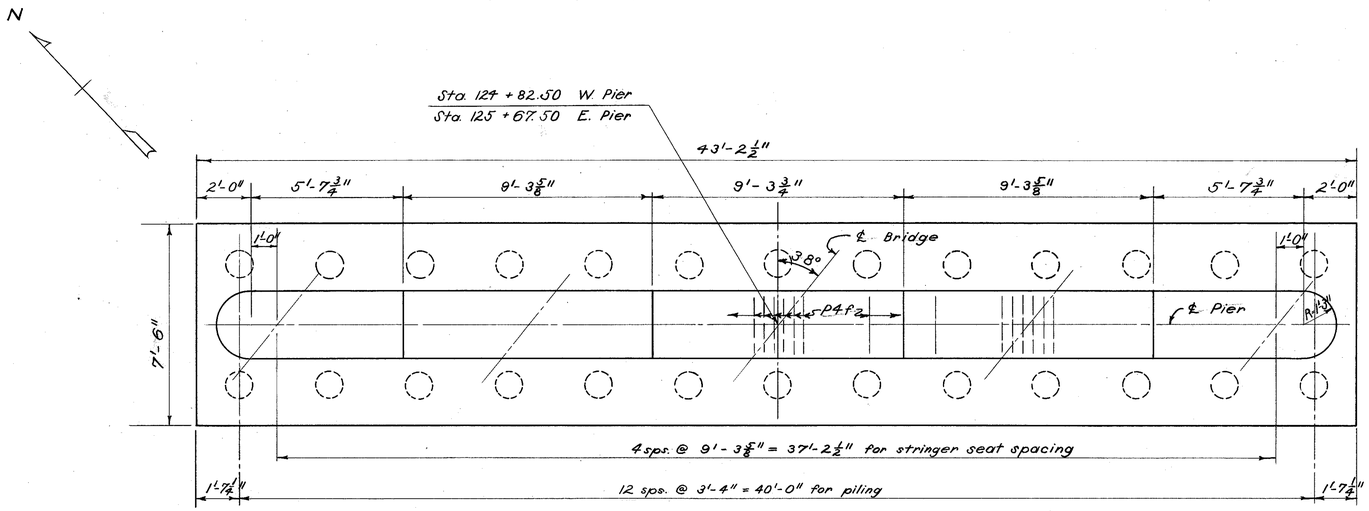
BRIDGE NO. UN-36-132
OVER MILL CREEK
UNION COUNTY SEC. UNI-36-(12.77-13.03)
S1A. 125+25

| DESIGNED | DRAWN | TRACED | CHECKED | REVIEWED | DATE | REVISED |
|---|---|---|---|---|---|---|
| D.L. | D.L. | E.J.S. | N.E.Y. | DFG WHB | 3-10-50 | |

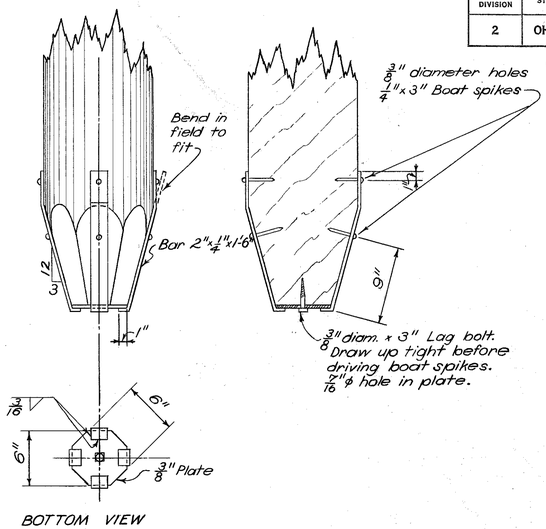
| FED. RD. DIVISION | STATE | PROJECT | TYPE FUNDS |
|---|---|---|---|
| 2 | OHIO | F-982(1) | POST WAR |

44
45

UNI-36-(12.77-13.03)

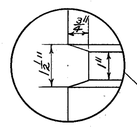


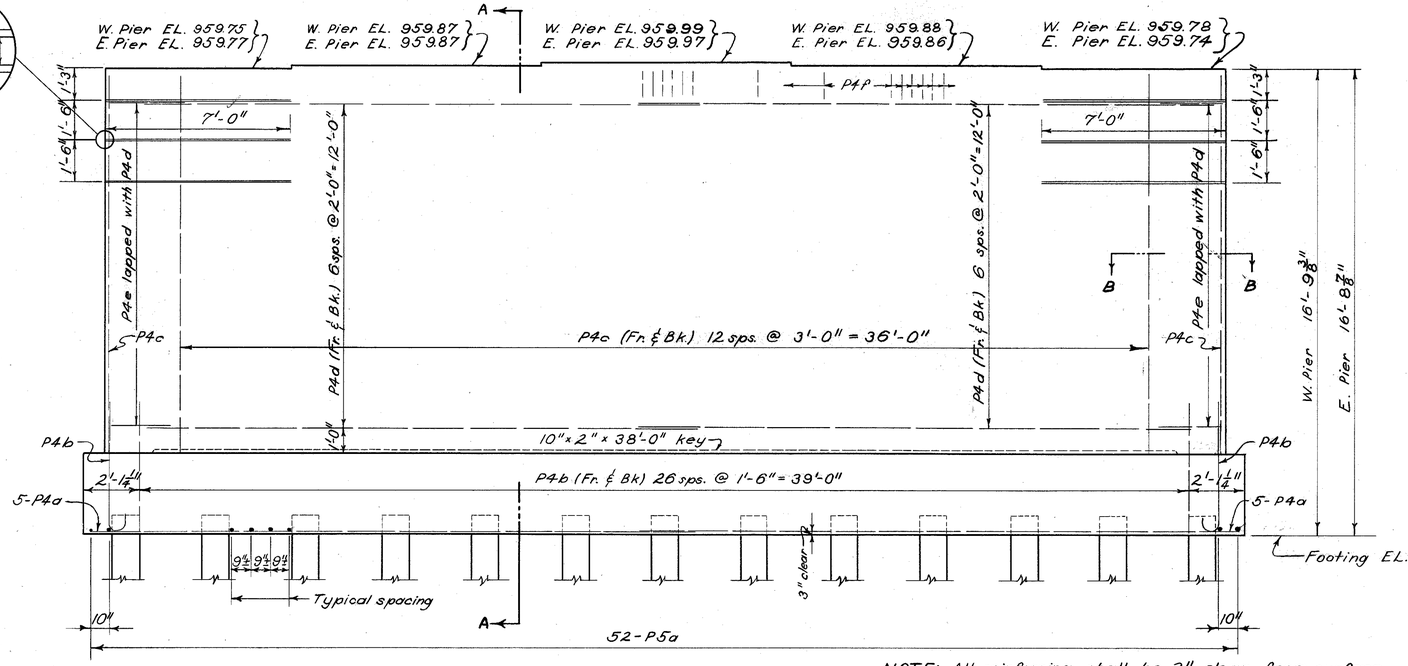

PLAN




BOTTOM VIEW

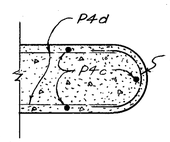
STEEL PILE POINT DETAIL



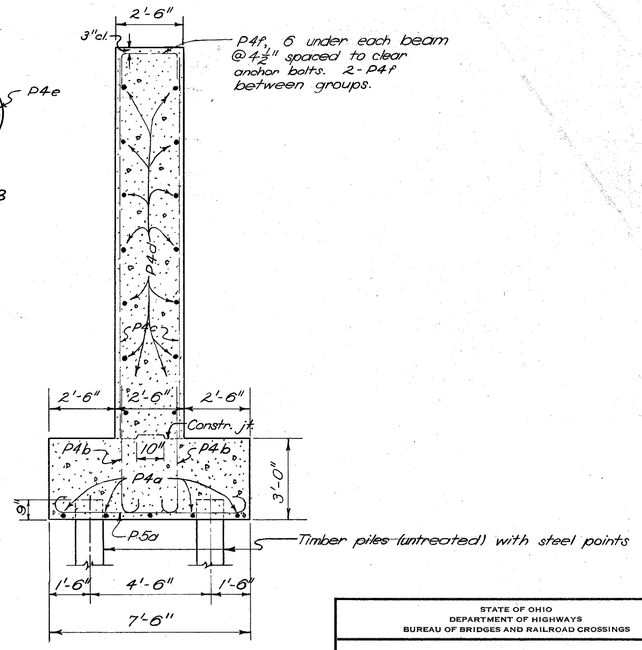




ELEVATION

NOTE: All reinforcing shall be 2" clear from surface of concrete unless otherwise shown.




SECTION B-B




SECTION A-A

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES AND RAILROAD CROSSINGS

# PIER DETAILS

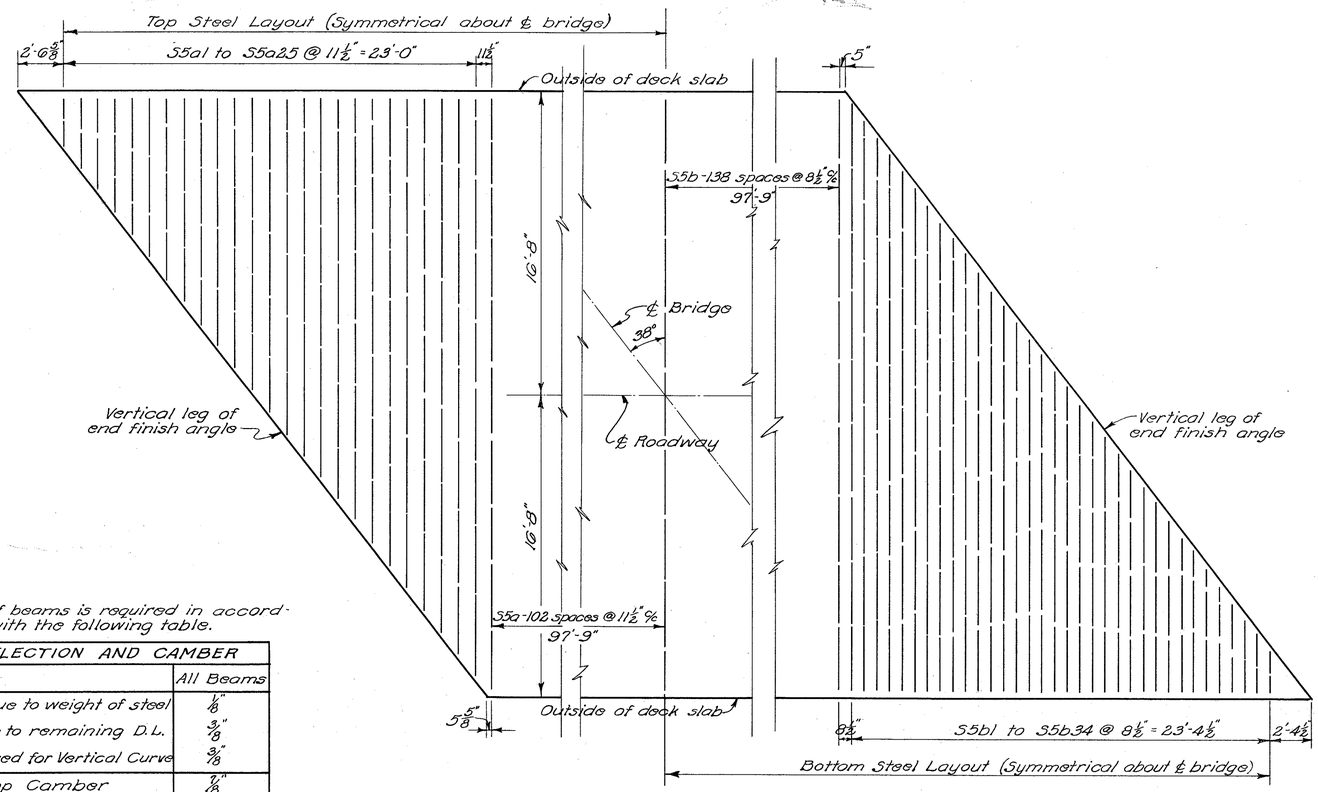
BRIDGE NO. UN-36-1.32
OVER MILL CREEK
UNION COUNTY SEC. UNI-36-(12.77-13.03)
STA. 125+25

| DESIGNED | DRAWN | TRACED | CHECKED | REVIEWED | DATE | REVISED |
|---|---|---|---|---|---|---|
| D.L. | D.L. | E.J.S. | N.E.Y. | DFG WHR | 3-10-50 | |

| FED. RD. DIVISION | STATE | PROJECT | TYPE FUNDS |
|---|---|---|---|
| 2 | OHIO | F-982(1) | POST WAR |

45/45

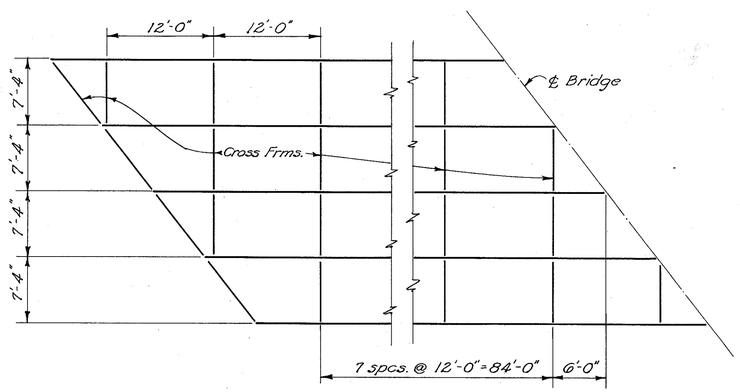
UNI-36-(12.77-13.03)




TRANSVERSE REINFORCING STEEL LAYOUT
(For longitudinal steel layout see Std. Dwg. CSB-1-47)

Cambering of beams is required in accordance with the following table.

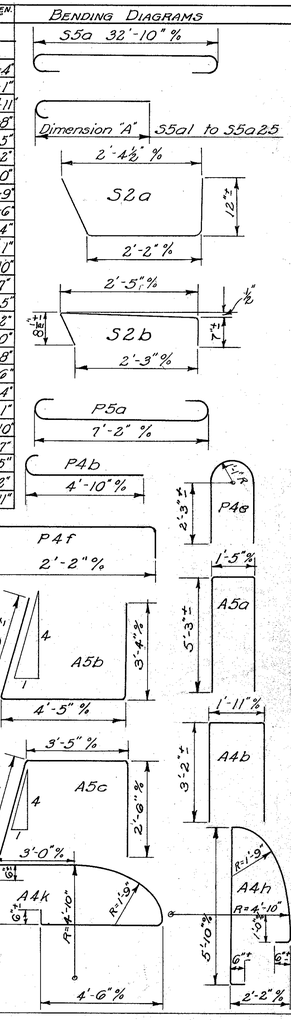
| DEFLECTION AND CAMBER | |
|---|---|
| | All Beams |
| Deflection due to weight of steel | ⅛" |
| Deflection due to remaining D.L. | ⅜" |
| Camber required for Vertical Curve | ⅜" |
| Required Shop Camber | ⅞" |




STRUCTURAL STEEL LAYOUT
(Symmetrical about ℄ bridge)

| MARK | SIZE | NO. | LENGTH | WEIGHT | SHP | DIMEN A |
|---|---|---|---|---|---|---|
| Superstructure | | | | | | |
| 55a | ¾"ϕ | 205 | 34'-2" | 10520 | Bt. | |
| 55a1 | ¾"ϕ | 2 | 33'-0" | 99 | Bt. | 32'-4 |
| 55a2 | ¾"ϕ | 2 | 31'-9" | 95 | Bt. | 31'-1 |
| 55a3 | ¾"ϕ | 2 | 30'-7" | 92 | Bt. | 29'-11 |
| 55a4 | ¾"ϕ | 2 | 29'-4" | 88 | Bt. | 28'-8 |
| 55a5 | ¾"ϕ | 2 | 28'-1" | 84 | Bt. | 27'-5 |
| 55a6 | ¾"ϕ | 2 | 26'-10" | 81 | Bt. | 26'-2 |
| 55a7 | ¾"ϕ | 2 | 25'-8" | 77 | Bt. | 25'-0 |
| 55a8 | ¾"ϕ | 2 | 24'-5" | 73 | Bt. | 23'-9 |
| 55a9 | ¾"ϕ | 2 | 23'-2" | 70 | Bt. | 22'-6 |
| 55a10 | ¾"ϕ | 2 | 22'-0" | 66 | Bt. | 21'-4 |
| 55a11 | ¾"ϕ | 2 | 20'-9" | 62 | Bt. | 20'-1 |
| 55a12 | ¾"ϕ | 2 | 19'-6" | 59 | Bt. | 18'-10 |
| 55a13 | ¾"ϕ | 2 | 18'-3" | 55 | Bt. | 17'-7 |
| 55a14 | ¾"ϕ | 2 | 17'-1" | 51 | Bt. | 16'-5 |
| 55a15 | ¾"ϕ | 2 | 15'-10" | 48 | Bt. | 15'-2 |
| 55a16 | ¾"ϕ | 2 | 14'-8" | 44 | Bt. | 14'-0 |
| 55a17 | ¾"ϕ | 2 | 13'-4" | 40 | Bt. | 12'-8 |
| 55a18 | ¾"ϕ | 2 | 12'-2" | 37 | Bt. | 11'-6 |
| 55a19 | ¾"ϕ | 2 | 11'-0" | 33 | Bt. | 10'-4 |
| 55a20 | ¾"ϕ | 2 | 9'-9" | 29 | Bt. | 9'-1 |
| 55a21 | ¾"ϕ | 2 | 8'-6" | 26 | Bt. | 7'-10 |
| 55a22 | ¾"ϕ | 2 | 7'-3" | 22 | Bt. | 6'-7 |
| 55a23 | ¾"ϕ | 2 | 6'-1" | 18 | Bt. | 5'-5" |
| 55a24 | ¾"ϕ | 2 | 4'-10" | 15 | Bt. | 4'-2" |
| 55a25 | ¾"ϕ | 2 | 3'-7" | 11 | Bt. | 2'-11" |
| 55b | ¾"ϕ | 277 | 32'-9" | 13,626 | Str. | |
| 55b1 | ¾"ϕ | 2 | 32'-7" | 98 | Str. | |
| 55b2 | ¾"ϕ | 2 | 31'-8" | 95 | Str. | |
| 55b3 | ¾"ϕ | 2 | 30'-9" | 92 | Str. | |
| 55b4 | ¾"ϕ | 2 | 29'-10" | 90 | Str. | |
| 55b5 | ¾"ϕ | 2 | 29'-0" | 87 | Str. | |
| 55b6 | ¾"ϕ | 2 | 28'-1" | 84 | Str. | |
| 55b7 | ¾"ϕ | 2 | 27'-2" | 82 | Str. | |
| 55b8 | ¾"ϕ | 2 | 26'-3" | 79 | Str. | |
| 55b9 | ¾"ϕ | 2 | 25'-4" | 76 | Str. | |
| 55b10 | ¾"ϕ | 2 | 24'-5" | 73 | Str. | |
| 55b11 | ¾"ϕ | 2 | 23'-6" | 71 | Str. | |
| 55b12 | ¾"ϕ | 2 | 22'-7" | 68 | Str. | |
| 55b13 | ¾"ϕ | 2 | 21'-8" | 65 | Str. | |
| 55b14 | ¾"ϕ | 2 | 20'-10" | 63 | Str. | |
| 55b15 | ¾"ϕ | 2 | 19'-10" | 60 | Str. | |
| 55b16 | ¾"ϕ | 2 | 19'-0" | 57 | Str. | |
| 55b17 | ¾"ϕ | 2 | 18'-1" | 54 | Str. | |
| 55b18 | ¾"ϕ | 2 | 17'-2" | 52 | Str. | |
| 55b19 | ¾"ϕ | 2 | 16'-3" | 49 | Str. | |
| 55b20 | ¾"ϕ | 2 | 15'-4" | 46 | Str. | |
| 55b21 | ¾"ϕ | 2 | 14'-5" | 43 | Str. | |
| 55b22 | ¾"ϕ | 2 | 13'-6" | 41 | Str. | |
| 55b23 | ¾"ϕ | 2 | 12'-7" | 38 | Str. | |
| 55b24 | ¾"ϕ | 2 | 11'-8" | 35 | Str. | |
| 55b25 | ¾"ϕ | 2 | 10'-10" | 33 | Str. | |
| 55b26 | ¾"ϕ | 2 | 9'-11" | 30 | Str. | |

BENDING DIAGRAMS




| MARK | SIZE | NO. | LENGTH | WEIGHT | SHP |
|---|---|---|---|---|---|
| Superstructure (cont'd) | | | | | |
| 55b27 | ¾"ϕ | 2 | 9'-0" | 27 | Str. |
| 55b28 | ¾"ϕ | 2 | 8'-1" | 24 | Str. |
| 55b29 | ¾"ϕ | 2 | 7'-2" | 21 | Str. |
| 55b30 | ¾"ϕ | 2 | 6'-3" | 19 | Str. |
| 55b31 | ¾"ϕ | 2 | 5'-4" | 16 | Str. |
| 55b32 | ¾"ϕ | 2 | 4'-6" | 14 | Str. |
| 55b33 | ¾"ϕ | 2 | 3'-7" | 11 | Str. |
| 55b34 | ¾"ϕ | 8 | 2'-8" | 8 | Str. |
| 55c | ¾"ϕ | 64 | 30'-0" | 2884 | Str. |
| 54a | ⅞"ϕ | 424 | 2'9'-9" | 13,157 | Str. |
| 54b | ⅞"ϕ | 48 | 34'-0" | 1702 | Str. |
| 52a | ½"ϕ | 298 | 4'-0" | 796 | Bt. |
| 52b | ½"ϕ | 298 | 3'-6" | 694 | Bt. |
| Piers | | | | | |
| P5a | ¾"ϕ | 104 | 8'-6" | 1328 | Bt. |
| P4a | ⅞"ϕ | 30 | 22'-6" | 469 | Str. |
| P4b | ⅞"ϕ | 112 | 5'-5" | 633 | Bt. |
| P4c | ⅞"ϕ | 56 | 13'-6" | 788 | Str. |
| P4d | ⅞"ϕ | 56 | 20'-6" | 1198 | Str. |
| P4e | ⅞"ϕ | 28 | 7'-11" | 231 | Bt. |
| P4f | ⅞"ϕ | 76 | 3'-8" | 291 | Bt. |
| Abutments | | | | | |
| A8a | 1"ϕ | 56 | 22'-1" | 4204 | Str. |
| A5a | ¾"ϕ | 54 | 11'-7" | 939 | Bt. |
| A5b | ¾"ϕ | 56 | 10'-10" | 911 | Bt. |
| A5c | ¾"ϕ | 56 | 8'-2" | 687 | Bt. |
| A4a | ⅞"ϕ | 24 | 28'-6" | 714 | Str. |
| A4b | ⅞"ϕ | 72 | 8'-0" | 600 | Bt. |
| A4c | ⅞"ϕ | 38 | 9'-2" | 300 | Str. |
| A4d | ⅞"ϕ | 16 | 10'-6" | 175 | Str. |
| A4e | ⅞"ϕ | 16 | 8'-9" | 138 | Str. |
| A4f | ⅞"ϕ | 4 | 7'-6" | 31 | Str. |
| A4g | ⅞"ϕ | 4 | 9'-9" | 39 | Str. |
| A4h | ⅞"ϕ | 8 | 11'-8" | 97 | Bt. |
| A4j | ¾"ϕ | 20 | 5'-0" | 104 | Str. |
| A4k | ⅞"ϕ | 8 | 12'-4" | 103 | Bt. |
| Replacement Bars | | | | | |
| REB | 1"ϕ | 1 | 7'-4" | 25 | Str. |
| RE3 | ¾"ϕ | 2 | 6'-6" | 20 | Str. |
| RE4 | ⅞"ϕ | 2 | 6'-1" | 13 | Str. |
| RE2 | ½"ϕ | 1 | 5'-8" | 4 | Str. |

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES AND RAILROAD CROSSINGS

# SUPERSTRUCTURE DETAILS & STEEL LIST
BRIDGE NO. UN-36-132
OVER MILL CREEK
UNION COUNTY SEC UNI-36-(12.77-13.03)
STA. 125+23.5

| DESIGNED | DRAWN | TRACED | CHECKED | REVIEWED | DATE | REVISED |
|---|---|---|---|---|---|---|
| D.L. | D.L. | J.D.J. | N.E.Y. | D.F.G. W.H.C. | 3-10-50 | |