FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-70-7(17)180	

1/250

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
GUE-40-8.93
GUERNSEY COUNTY
JACKSON AND CAMBRIDGE TOWNSHIPS

I-70-7(17)180

GUERNSEY COUNTY
GUE-40-8.93

CONVENTIONAL SIGNS

Center Line	
Corporation Line	
Existing R/W	
Proposed Limited Access Line	LA
Proposed LA & R/W Line	LA & R/W
Proposed R/W	R/W
Slope Easement	
Property Line	PL
Fence Line	x x x
Water Line	W W
Gas Line	G G
Existing Sewer	
Proposed Sewer	

Water Valves		Gas Valves	
Existing Manholes		Existing Catch Basins	
Proposed Manholes		Proposed Catch Basins	
Manholes Adjusted to Grade		Catch Basins Adjusted to Grade	
Manholes Abandoned		Catch Basins Abandoned	
Manholes Removed		Catch Basins Removed	
Power Pole		Telephone Pole	
Light Pole		Water Hydrant	
Trees & Stumps to be Removed		Traffic Light	

Railroads
Existing Retaining Wall
Existing Guard Rail
Proposed Guard Rail

MICROFILMED DEC 3 1968 GROUND PHOTO LAB

INDEX OF SHEETS

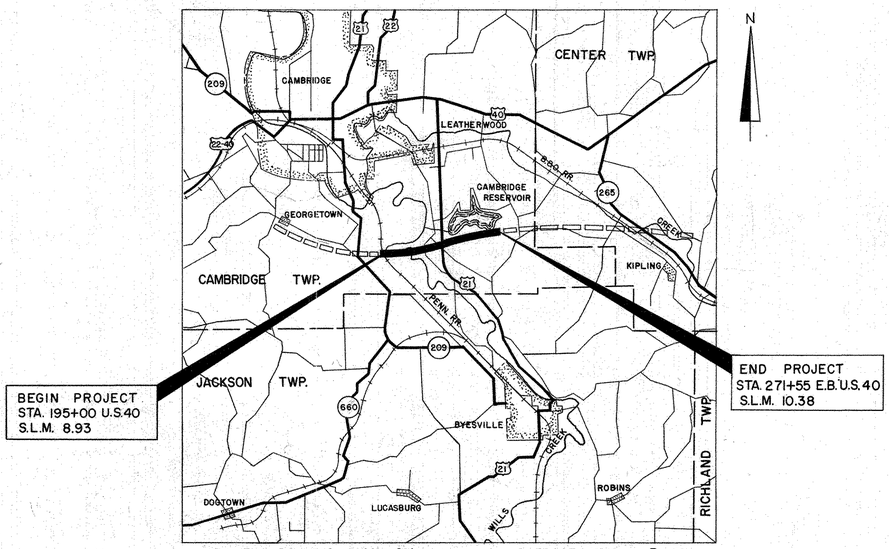
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LINE DATA

Begin Project	Sta. 195+00 U.S. 40
End Project	Sta. 271+55 East Bound U.S. 40
Gross and Net Length of Project	7,655 L.F. = 1.449 Mi.
Begin Work	Sta. 195+00 U.S. 40
End Work	Sta. 271+55 East Bound U.S. 40
Gross Length of Work	7,655 L.F.
Work Additions	
430+25 to 477+00 Southbound U.S. 21 =	4,675 L.F.
33+55 to 81+75 Twp. Rd. 435 Relocation =	4,820 L.F.
Net Length of Work	17,150 L.F. = 3.248 Mi.

MICROFILMED DEC 3 1968 GROUND PHOTO LAB

FILE NUMBER	GUERNSEY COUNTY	GUE-40-8.93
	DATE OF LETTING	
	CONTRACT NUMBER	



DELIVERY POINT-Cambridge, Ohio AVERAGE HAUL- 3 MI.

LOCATION MAP

SCALE OF MILES 0 1 2 3

PORTION TO BE IMPROVED
STATE HIGHWAYS
OTHER HIGHWAYS
TO BE IMPROVED UNDER SEPERATE CONTRACT

SCALE

PLAN	0 50	1" = 50'
PROFILE	0 100	1" = 100'
CROSS SECTIONS	0 10	1" = 10'

STANDARD DRAWINGS

NUMBER	DATE	NUMBER	DATE
DR-1	1-3-55	SP-53	6-30-61
G-7.07	6-1-56		
HW-C	7-15-57		
HW-E	11-15-60		
		FACI-1	12-27-61
		FACI-2	12-27-61
I-1	11-15-60		
I-8 MH Nº 1	1-26-59		
I-15 Nº1	11-15-60		
I-15 Nº2	11-15-60		
I-15 Nº4	12-1-54		
L-1	4-1-50		
L-3	4-1-50		
L-3-A	4-1-50		
RI-1	7-15-58		
T-35	1-2-56		

SUPPLEMENTAL SPECIFICATIONS

NUMBER	DATE	NUMBER	DATE
I-124 Rev.	3-20-61		
I-128	7-31-59		
I-129 Rev.	4- 5-61		
M-107.18 Rev.	4- 3-61		
M-109.28 Rev.	8-12-59		

"LIMITED ACCESS"

MICROFILMED DEC 3 1968 GROUND PHOTO LAB

This improvement is especially designed for thru traffic and has been declared a Limited Access Highway or Freeway by action of the Director of Highways, in accordance with the provisions of Sec. 5511.02 of The Revised Code of Ohio.

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

The Right of Way for this improvement will be provided by the State of Ohio.

I hereby approve these plans and declare that the making of this improvement will not require the closing to traffic of the highway and that provisions for maintenance and safety of traffic will be as set forth on the plans and estimates.

Approved _____ Harry A. Brannon _____ Division Deputy Director
Date 8-14-62

Approved _____ Engineer of Bridges
Date _____

Approved _____ W. Freeman _____ Engineer of Location & Design
Date 8-14-62

Approved _____ C. W. McCaughey _____ Deputy Director of Design & Construction
Date 8-14-62

Approved _____ Wm. J. Bom _____ Deputy Director of Right of Way
Date 8-14-62

Approved _____ Harry E. Keepa _____ Deputy Director of Planning & Programming
Date 8-14-62

Approved _____ G. A. Berry _____ First Assistant Director
Date 8-14-62

Approved _____ E. J. Preston _____ Director of Highways
Date 8-14-62

PLANS PREPARED BY
ALDEN E. STILSON & ASSOCIATES, Limited
CONSULTING ENGINEERS
245 NORTH HIGH STREET
COLUMBUS, OHIO
FOR
STATE OF OHIO

G-10

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED

MICROFILMED DEC 3 1968 GROUND PHOTO LAB

DIVISION ENGINEER DATE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

2/250

GUERNSEY COUNTY
GUE - 40 ~ 8.93
PART 1

N

CITY OF CAMBRIDGE

LEATHERWOOD CREEK

Corp. Line

C.R. 461

B. & O. R.R.

T.R. 56

T.R. 362

T.R. 380

C.R. 321

Proposed U.S. 40

T.R. 320 Relocation

T.R. 322

T.R. 322 Extn.

CAMBRIDGE RESERVOIR

Reservoir Drive

Prop. Low Head Dam (Part 1)

Prop. Pump House (Part 2)

Wills Creek Channel Reloc. No. 2

Ex. Dam

Ex Pump House

Penna. R.R.

WILLS CREEK

BEGIN PROJECT & BEGIN WORK STA. 195+00 SLM 8.93

END WORK
47+00 S.B. U.S. 21
END WORK 81+75
T.R. 435 RELOC.

GUE-21-9.39

GUE-40-10.52

STA. 279+00

END PROTECT WORK STA. 271+25 EB US 40 SLM 10.35

BEGIN WORK 430+25.00 S.B. U.S. 21

T.R. 435

Begin Work 35+35 T.R. 435 Reloc.

Wills Creek Channel Relocation No. 1

CHAPMAN RUN RELOCATION

Chapman Run

Service Rd. "A"

Service Rd. "B"

C.R. 321 Extn.

C.R. 98

GUE-40-8.36
GUE-209-(9.92-9.93)

Ramp "A"
2290 A.D.T.
330 D.H.V.

Ramp "B"
350 A.D.T.
50 D.H.V.

Ramp "C"
1845 A.D.T.
266 D.H.V.

Ramp "D"
3575 A.D.T.
486 D.H.V.

Ramp "E"
350 A.D.T.
50 D.H.V.

Ramp "F"
2290 A.D.T.
330 D.H.V.

Ramp "G"
3575 A.D.T.
486 D.H.V.

Ramp "H"
1845 A.D.T.
266 D.H.V.

11,285 A.D.T.
1625 D.H.V.
W.B. U.S. 40

11,285 A.D.T.
1625 D.H.V.
E.B. U.S. 40

7815 A.D.T.
1125 D.H.V.

7815 A.D.T.
1125 D.H.V.

10,870 A.D.T.
1565 D.H.V.

10,870 A.D.T.
1565 D.H.V.

10,420 A.D.T.
1,505 D.H.V.

10,460 A.D.T.
1,505 D.H.V.

S.B. U.S. 21

N.B. U.S. 21

LEGEND

Proposed Project
* GUE-40-8.93 ~ Part 2 Adjacent Projects

* GUE-40-8.93 includes that symbolized as shown above and the Part 1 Project.

County & Township Roads

100 ~ 1982 ~ Two Way ~ A.D.T.
(50) ~ 1962 ~ Two Way ~ A.D.T.

ESTIMATED 1975 TRAFFIC DIRECTIONAL

Adjusted (3 Pass. = 1 Commercial)
D.H.V. ~ 12% Factor ~ 60% Directional

I-77 (U.S. 21)
I-70 (U.S. 40)

P - 15,230
C - 2,170

P - 2240
C - 780

P - 2760
C - 310

P - 11,950
C - 3,540

P - 8,640
C - 2,330

P - 4,290
C - 820

P - 460
C - 80

P - 14,380
C - 1,980

1975 A.D.T. TRAFFIC TWO WAY

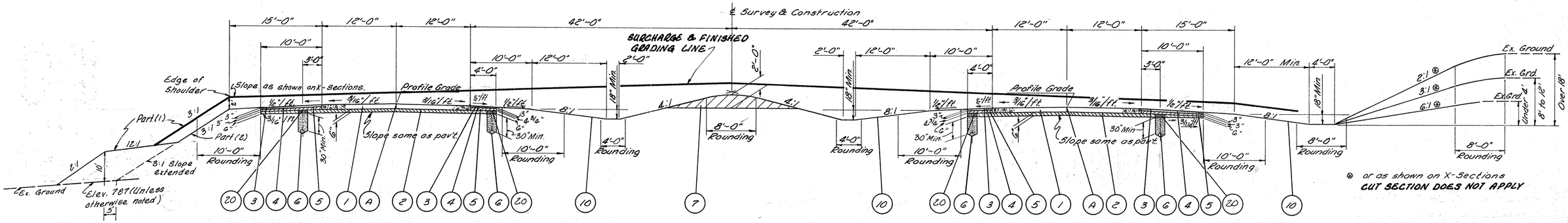
SCHEMATIC PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

3/250

GUERNSEY COUNTY
GUE-40-8.93
PART I

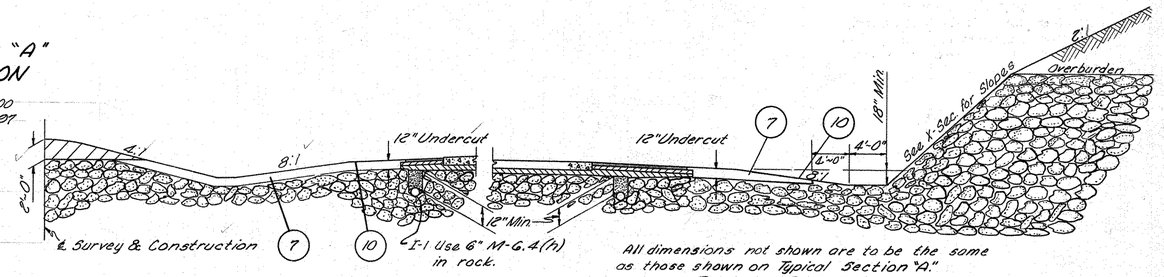
TYPICAL SECTIONS
GRADING



TOE BERM DETAIL

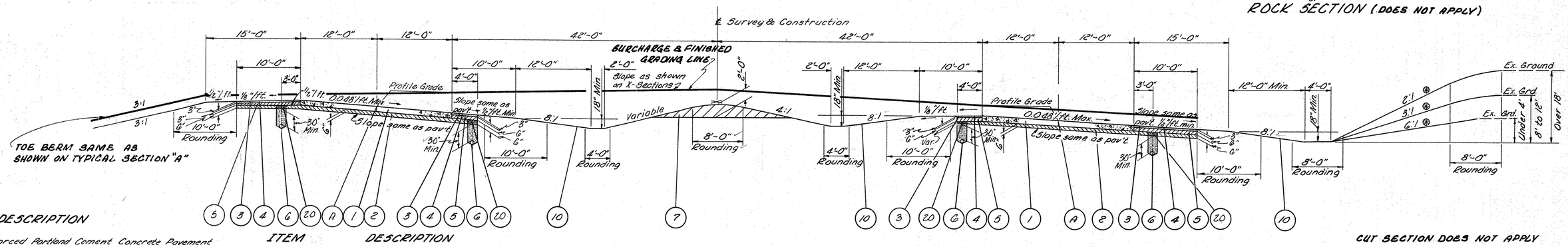
TYPICAL SECTION "A"
NORMAL SECTION

Sta. 195+00.00 to Sta. 200+87.00
Sta. 201+26.00 to Sta. 205+13.97



All dimensions not shown are to be the same as those shown on Typical Section "A."

ROCK SECTION (DOES NOT APPLY)



TOE BERM SAME AS SHOWN ON TYPICAL SECTION "A"

CUT SECTION DOES NOT APPLY

TYPICAL SECTION "B"
SUPERELEVATED SECTION

Sta. 205+13.97 to Sta. 214+00.00

NOTES: 1. Section is to be surcharged as shown on the cross sections. Surcharge is to be 2' above the final outside Shoulder elevations and sloped as shown on cross sections.
2. Toe Berms shall be constructed as shown.

ITEM	DESCRIPTION
(1)	T-71 9" Reinforced Portland Cement Concrete Pavement
(2)	I-22 Subbase, Grading "A" or "B" modified as per General Note
(3)	T-31 Bituminous Surface Treatment Using 0.008 Cu. Yd. of No. 6 Aggregate and 0.25 Gal. Bituminous Material Per Sq. Yd. (See Note in Proposal)
(4)	* B-21 3" Waterproofed Aggregate Base Course (Type "A" T-35 Material may be used in construction of this course - See Note in Proposal)
(5)	B-112 Porous Base Course.
(6)	I-1 6" Pipe, Class I-3
(7)	L-3 Placing Stockpiled Topsoil
(9)	I-15 Guard Rail, Steel Beam Standard Type (Deep)
(10)	L-9 Seeding and Protecting
(A)	Standard Longitudinal Joint
(20)	Remove subbase for width of Item I-1 trench and replace with either Class 3 backfill or with porous base material immediately prior to placing the Item B-112 Porous Base Course. Cost shall be included in price bid per lin. ft. for Item I-1.

ITEMS (1) thru (20) ARE NOT TO BE CONSTRUCTED WITH THIS PROJECT.

For details not shown on this sheet see Standard Drawing No. DI-1.

U.S.40

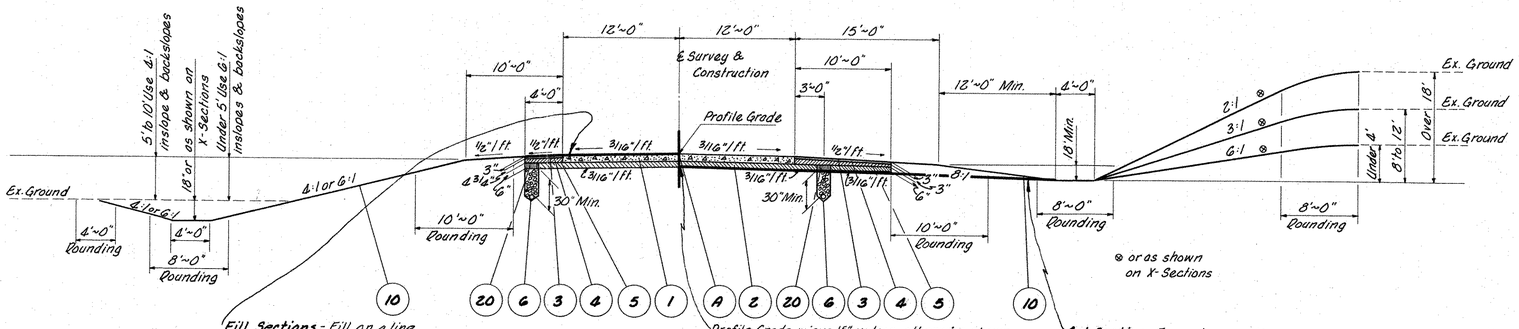
TYPICAL SECTION

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

4
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

TYPICAL SECTIONS
GRADING



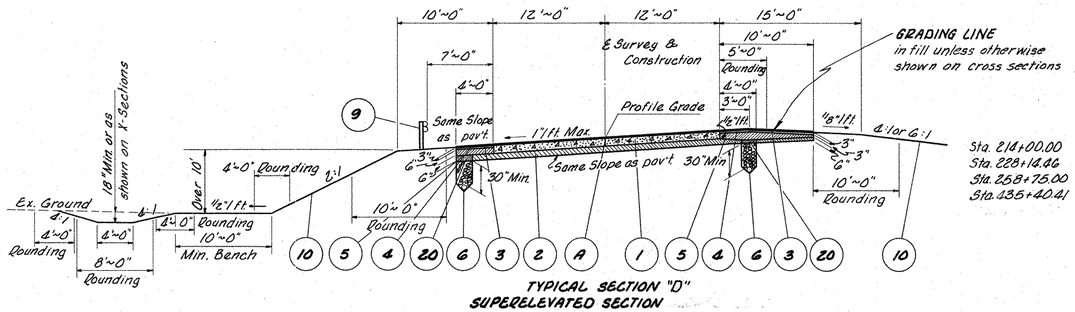
Fill Sections - Fill on a line from the profile grade elevation to the proposed shoulder elevation unless otherwise shown on the cross sections.

Profile Grade minus 15" unless otherwise shown

Cut Section - Excavate on a line from a point 15 below profile grade to the proposed ditch elevation or as shown by breaks on cross sections (shown as heavy line on X-Sections)

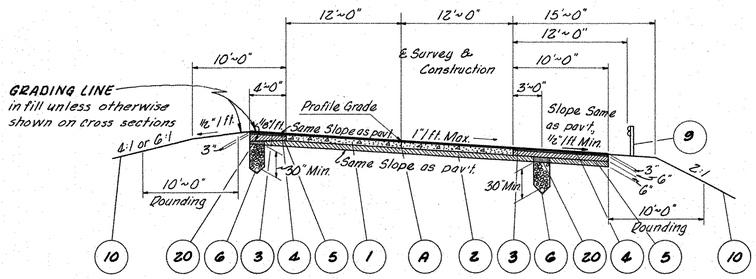
TYPICAL SECTION "C"
NORMAL SECTION

Sta. 217+00.00	to	Sta. 222+86.00	E.B. U.S. 40
Sta. 224+52.00	to	Sta. 228+14.46	E.B. U.S. 40
Sta. 228+45.00	to	Sta. 236+25.00	W.B. U.S. 40
Sta. 243+25.00	to	Sta. 251+00.00	W.B. U.S. 40
Sta. 434+00.00	to	Sta. 442+25.00	N.B. U.S. 21
Sta. 430+25.00	to	Sta. 435+40.41	S.B. U.S. 21
Sta. 466+00.00	to	Sta. 475+00.00	S.B. U.S. 21
Sta. 445+40.00	to	Sta. 447+52.60	N.B. U.S. 21



TYPICAL SECTION "D"
SUPERELEVATED SECTION

Sta. 214+00.00	to	Sta. 217+00.00	E.B. U.S. 40
Sta. 228+14.46	to	Sta. 232+75.00	E.B. U.S. 40
Sta. 258+75.00	to	Sta. 269+50.00	W.B. U.S. 40
Sta. 435+40.41	to	Sta. 441+50.00	S.B. U.S. 21



TYPICAL SECTION "E"
SUPERELEVATED SECTION

Sta. 447+52.60	to	Sta. 452+50.00	N.B. U.S. 21
Sta. 214+00.00	to	Sta. 221+57.00	W.B. U.S. 40
Sta. 224+82.00	to	Sta. 228+45.00	W.B. U.S. 40

ITEM	DESCRIPTION
1	I-71 9" Reinforced Portland Cement Concrete Pavement.
2	I-22 Subbase, Grading "A" or "B" modified as per General Note.
3	I-31 Bituminous Surface Treatment Using 0.008 Cu. Yd. of N° 6 Aggregate and 0.25 Gal. Bituminous Material Per. Sq. Yd. (See Note in proposal.)
4	* B-21 3" Waterproofed Aggregate Base Course (Type "A" F-35 Material may be used in the construction of this course. (See Note in Proposal.)
5	B-112 Porous Base Course.
6	I-1 6" Pipe, Class I-3

ITEMS (1) THRU (20) ARE NOT TO BE CONSTRUCTED WITH THIS PROJECT

ITEM	DESCRIPTION
9	I-15 Guard Rail Steel Beam Standard Type (Deep)
10	L-9 Seeding & Protecting.
A	Standard Longitudinal Joint.
20	Remove subbase for width of Item I-1 trench and replace with either Class 3 backfill or with porous base material immediately prior to placing the Item B-112 Porous Base Course. Cost shall be included in price bid per lin. ft. for Item I-1.

For details not shown on this sheet, see Standard Drawing N° DI-1
* See cross sections for toe berm & surcharge section.

U.S. 40 & U.S. 21

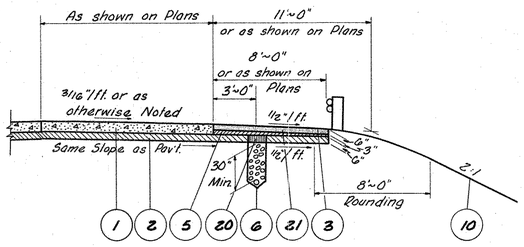
SEPARATE LANE TYPICAL SECTIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

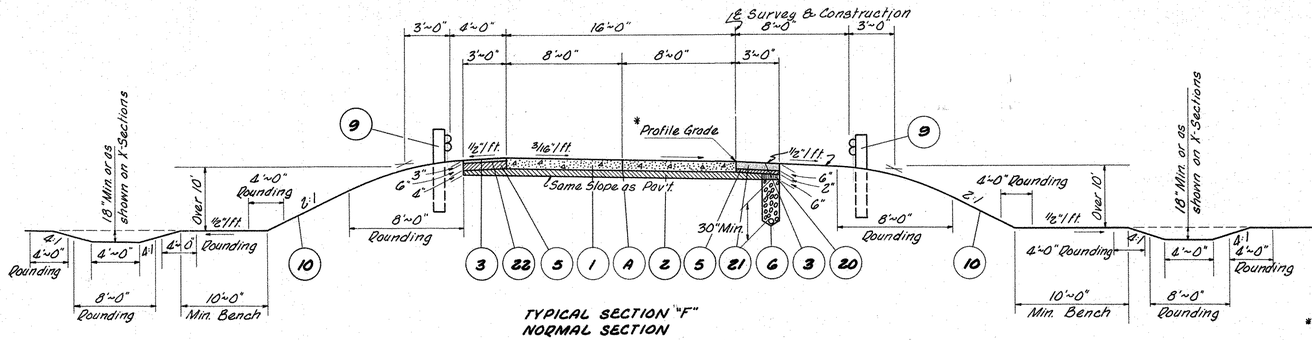
5/250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

TYPICAL SECTIONS GRADING



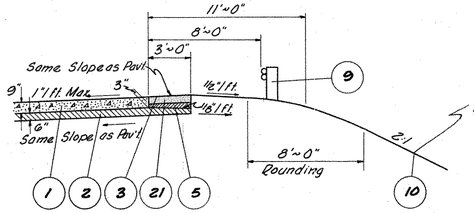
ACCELERATION & DECELERATION LANE DETAIL — DOES NOT APPLY TO PART 1



TYPICAL SECTION "F" NORMAL SECTION

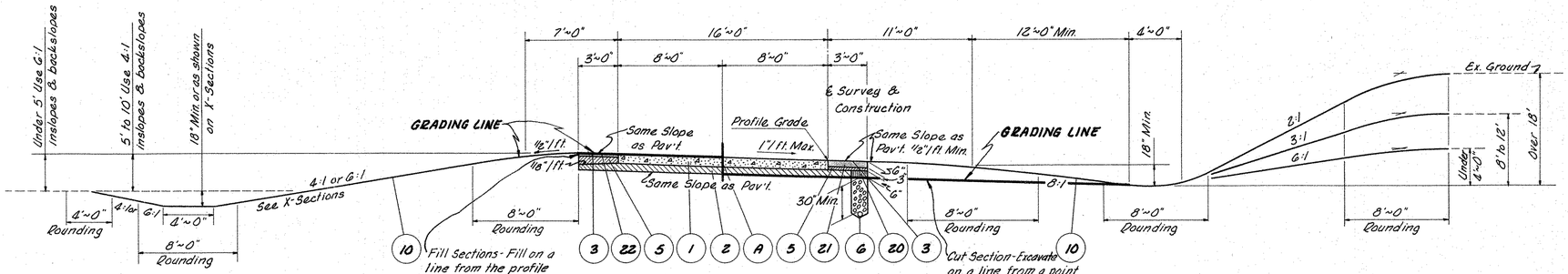
* Profile Grade for Ramps "D" & "H" is at left pavement edge.

THIS TYPICAL SECTION NOT REQUIRED



DOES NOT APPLY TO PART 1

SHOULDER DETAIL
SUPERELEVATED SECTION SLOPED LEFT



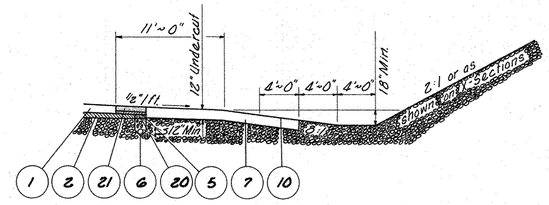
Fill Sections - Fill on a line from the profile grade elevation to the proposed shoulder elevation.

TYPICAL SECTION "G" SUPERELEVATED SECTION

* Sta. 29+50 to Sta. 31+90 Ramp "A"
Sta. 15+00 to Sta. 19+25 Ramp "B"
Sta. 20+75 to Sta. 24+75 Ramp "B"
Sta. 12+25 to Sta. 22+50 Ramp "C"
Sta. 13+50 to Sta. 25+00 Ramp "G"

* See Cross Sections for earth surcharge dimensions

Cut Section - Excavate on a line from a point 15" below profile grade to the proposed ditch elevation unless otherwise shown on cross sections



ROCK CUT DETAIL

DOES NOT APPLY TO PART 1

ITEM		DESCRIPTION
1	T-71	9" Reinforced Portland Cement Concrete Pavement.
2	T-22	Subbase, Grading "A" or "B" modified as per General Note.
3	T-31	Bituminous Surface Treatment Using 0.008 Cu. Yd. of No. 6 Aggregate and 0.25 Gal. Bituminous Material Per. Sq. Yd. (See Note in Proposal.)
5	B-112	Porous Base Course.
6	I-1	6" Pipe, Class I-3
7	L-3	Placing Stockpiled Topsoil
9	I-15	Guard Rail, Steel Beam Standard Type (Deep)
10	L-9	Seeding & Protecting
12	I-12	Standard Type G Curb

ITEM		DESCRIPTION
13	I-21	Standard Type I Portland Cement Concrete Median Pavement, as per plan.
20		Remove subbase for width of Item I-1 trench and replace with either Class 3 backfill or with porous base material immediately prior to placing the Item B-112 Porous Base Course. Cost shall be included in price bid per lin. ft. for Item I-1.
21	B-21	6" Waterproofed Aggregate Base Course (2-3" Courses) Type "A" T-35 Material may be used in the construction of this course. (See Note in Proposal.)
22	B-21	3" Waterproofed Aggregate Base Course. (Type "A" T-35 Material may be used in the construction of this course. (See Note in Proposal.)
A		Standard Longitudinal Joint.

ITEMS (1) THRU (22) ARE NOT TO BE CONSTRUCTED WITH THIS PROJECT

For details not shown on this sheet, see Standard Drawing No. QI-1.

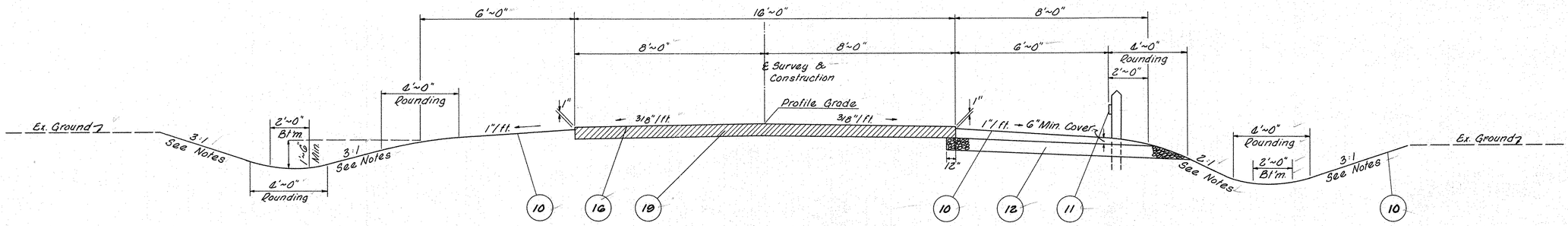
RAMP TYPICAL SECTIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

6/250

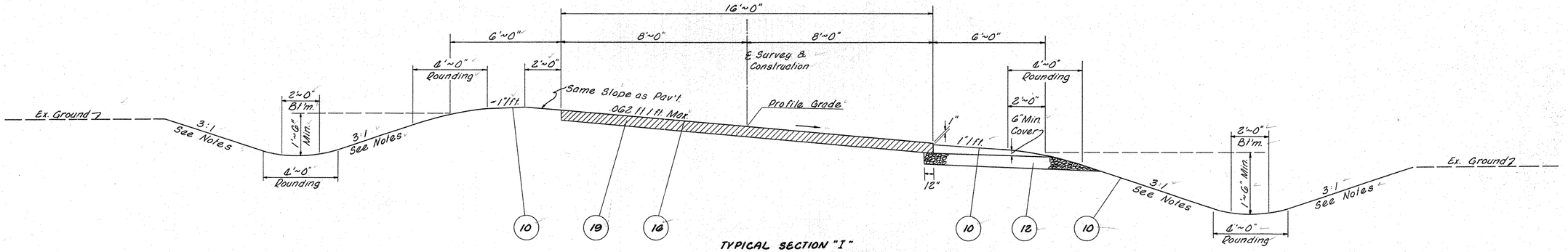
GUERNSEY COUNTY
GUE-40-8.93
PART 1

TYPICAL SECTIONS
TYPE B-19



TYPICAL SECTION "H"
NORMAL SECTION

Sta. 39+06.99 to Sta. 42+41.32
Sta. 47+03.22 to Sta. 51+77.23
Sta. 54+87.81 to Sta. 56+22.46
Sta. 59+78.58 to Sta. 64+00.00
* Sta. 75+96.49 to Sta. 78+00.00
@ Sta. 78+00.00 to Sta. 81+15.00



TYPICAL SECTION "I"
SUPERELEVATED SECTION

Sta. 33+55.00 to Sta. 39+06.99 (See Plan Sheet for Variable Width)
Sta. 42+41.32 to Sta. 47+03.22
Sta. 51+77.23 to Sta. 54+87.81
Sta. 56+22.46 to Sta. 59+78.58
* Sta. 74+23.00 to Sta. 75+96.49

ITEM	DESCRIPTION
16	Stabilize Aggregate with Calcium Chloride See Note in Proposal
19	B-19 8" Aggregate Base Course
10	L-9 Seeding and Protecting
12	I-9 Stone Underdrains (N°2)
11	I-15 Guard Rail, 3 Wire Cable Type

* Grading only to be performed between these Stations. Embankment to be constructed to finished pavement surface.
@ Pavement cross slope shall be 5/16"/ft.

NOTE: I-9 Underdrains shall be spaced alternately right and left at 25 foot intervals as directed by the Engineer. Space at 25 foot intervals on low side of Super-elevated Sections.

NOTE: For details not shown on this drawing see Standard Construction Drawing numbers DR-1, RI-1 and T-35

NOTES
1. For Fills 10' and over use 2:1 Slopes
2. For Fills under 10' use 3:1 Slopes
3. For Cuts 5' and under use 3:1 Backslopes.
4. For Cuts over 5' use 2:1 Backslopes.
5. Fills are measured from edge of shoulder to existing ground. Cuts are measured from bottom of ditch to existing ground.

I.R. 435 RELOCATION
TYPICAL SECTIONS

FED. RD DIVISION	STATE	PROJECT		7
2	OHIO			250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

GENERAL NOTES

FIELD OFFICE
The Contractor shall, in accordance with Sec. S-0.01 (b), provide for the exclusive use of the State's employees, a suitable field office having a minimum of 500 sq. ft. of floor space. The Contractor shall have a telephone installed and maintained in this field office during the construction of this project. The Contractor shall also provide and install wiring and outlets suitable for connecting electric lights and office equipment in the field office and provide 110-volt alternating current to the office during the entire period of construction of this project. Cost of maintaining the telephone does not include the cost of long distance telephone calls made by State personnel.

ELEVATION DATUM
All elevations are based on U.S.G.S. datum.

SECTION CORNER MARKERS
Section Corner Markers that will be removed by construction, shall be protected by the Contractor as per Section G-7.09 until they can be witnessed, referenced and reset by the Engineer.

ESTIMATED QUANTITIES
Specific locations and usage of estimated quantities set up on this plan to be used "as directed by the Engineer" shall be made a matter of record by incorporation into the final change order governing completion of this project.

UTILITIES
The Contractor shall notify at least 5 days, unless otherwise noted on these plans, before breaking ground all Public Service Corporations having wire, poles, pipe, conduits, manholes or other structures that may be affected by this operation, including all structures which are affected and not shown on these plans.

UNDERGROUND UTILITIES
The location of the underground utilities shown on the plans have been obtained by diligent field checks and searches of available records. It is believed that they are essentially correct, but the State of Ohio makes no guarantees as to their accuracy or completeness.

UTILITY OWNERSHIP
Ohio Power Co., Canton 2, Ohio.
Pennsylvania Railroad Company
General Telephone Co., Cambridge, Ohio.
City of Cambridge, Utilities Division, Cambridge, Ohio.
Byesville (Abandoned 12" Sanitary Sewer)
Any and all work required for removing, relocation and construction of new facilities for private or public utilities will be done by and at the expense of the respective Owners unless otherwise noted on the plans.

COOPERATION NOTE
The Contractor shall cooperate to the fullest extent with Contractors on adjacent projects in a manner which will result in a minimum amount of interference with other Contractors.

REPLACEMENT
The Contractor shall replace, at his own expense, any item not specifically listed for removal that is damaged or destroyed by his operations.

CONSTRUCTION LAYOUT STAKES
See note in proposal describing the work included in this lump sum pay item.

DESIGN SPEED
The geometrics for this project have been planned for a design speed of 70 miles per hour.

CONSTRUCTION PLANS

THESE PLANS WERE DRAWN FOR CONSTRUCTION OF A COMPLETE AND FINISHED PAVED HIGHWAY FACILITY. HOWEVER, THIS CONTRACT SHALL INCLUDE ONLY THOSE ITEMS NECESSARY FOR CONSTRUCTION OF THE WORK OUTLINED BELOW.

ALL DETAILS, NOTES, REFERENCES ETC. SHOWN THROUGHOUT THESE PLANS PERTAINING TO ITEMS OF CONSTRUCTION, WHICH ARE NOT A PART OF THIS CONTRACT, SHALL BE DISREGARDED EVEN THOUGH THEY HAVE NOT BEEN SHOWN DELETED.

1. The work between the following limits shall consist of grading and construction of incidental items at locations indicated on the plans.

   No pavement is to be constructed within these limits.

   Sta. 195+00 to Sta. 214+00 US 40
   Sta. 214+00 to Sta. 242+75 E.B. US 40

   Sta. 214+00 to Sta. 236+25 W.B. US 40
   Sta. 243+25 to Sta. 251+00 W.B. US 40
   Sta. 258+75 to Sta. 269+50 W.B. US 40
   Sta. 434+00 to Sta. 442+25 N.B. US 21
   Sta. 443+40 to Sta. 452+50 N.B. US 21
   Sta. 460+50 to Sta. 464+42 N.B. US 21
   Sta. 430+25 to Sta. 441+50 S.B. US 21
   Sta. 466+00 to Sta. 475+00 S.B. US 21
   Sta. 29+50 to Sta. 39+98 Ramp "A"
   Sta. 9+75 to Sta. 19+25 Ramp "B"
   Sta. 20+75 to Sta. 24+75 Ramp "B"
   Sta. 12+25 to Sta. 22+50 Ramp "C"
   Sta. 5+50 to Sta. 11+75 Ramp "D"
   Sta. 26+25 to Sta. 28+24 Ramp "E"
   Sta. 23+50 to Sta. 29+10 Ramp "F"
   Sta. 8+14 to Sta. 28+56 Ramp "G"
   Sta. 73+00 to Sta. 81+74 T.R. 435 Relocation

2. The following items shall be constructed in their entirety:

   a. Wills Creek Channel Relocation No. 1
   b. Wills Creek Channel Relocation No. 2
   c. T.R. 435 Relocation Sta. 33+55 to Sta. 64+50
   d. Low Head Dam
   e. Water Lines and Valves as shown on the plans
   f. Filling of Existing Wills Creek where shown on the plans
   g. Removal of Existing Buildings where shown on the plans

3. The work for this project does not include any "Structures over 20 foot Span"; however, the Site Plans for certain structures have been included for information purposes.

PART 1 and PART 2
References made to Part 1 throughout the Plan pertain to this project.

Part 2 is to be constructed by others and any reference made to Part 2 does not pertain to this project.

ROUNDING OF CORNERS SHOWN ON CROSS SECTIONS
The rounded corners shown on Standard Drawing RI-1, as modified by the typical sections, apply to all cross sections, even though otherwise shown on these plans.

DRIVE LOCATIONS
The locations of the drives as shown on the plans may be relocated as directed by the Engineer outside the Limited Access Right-of Way and providing that there is no additional cost to the State.

DRAINAGE OF BASE MATERIAL
Where the base material is drained by I-9 Stone Underdrains, the Contractor shall finish, seed, and mulch the slopes so as not to impede drainage of the base material. The actual area of the outcrop of the I-9 Underdrains shall not be seeded.

AGRICULTURAL LIMING MATERIALS
The location and need for agricultural liming materials will be determined by laboratory tests after rough grading operations have been performed. Quantities of agricultural liming materials, as shown on the plans, are sufficient for the entire project but will be non-performed for the areas where tests show that the liming material is not needed.

EROSION CONTROL
Items I-10, I-14, and L-10 are provided in these plans for erosion control. Rock of a stable nature will not be removed in order to place any of these items. The Engineer shall check and non-perform quantities or adjust locations and quantities for these items where indicated by field conditions during construction.

ROCK PROFILE
The top of rock shown in these plans is approximate. The State makes no guarantees as to the accuracy of the elevation of the rock shown.

ROADWAY EXCAVATION
Roadway excavation shall be limited to that amount required to complete the Roadway Embankment.

SPECIAL - R/W FENCE REMOVED AND STORED
This item shall consist of the removal and storage of existing R/W fence and posts, not encased in concrete.

The fence shall be rolled in neat rolls and both fence and posts shall be stored on the R/W for removal by others.

The price bid per Lin.Ft. for Item Special, R/W Fence Removed and Stored shall include payment for all labor, materials and incidentals necessary to complete this item.

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GENERAL NOTES

REMOVAL OF TREES AND STUMPS
All trees and stumps over 11" diameter lying within the construction limits of this project shall be removed under the lump sum price bid for Item E-9, Removal of Trees and Stumps, except that those trees and stumps for which protection and preservation work is indicated elsewhere in these plans shall not be removed. The following is an approximate estimate of the number of trees and stumps to be removed:

Sizes	No. Trees	No. Stumps
12"-18"	1,954	0
18"-24"	705	0
24"-30"	362	0
30"-36"	48	0
36"-42"	11	0
42"-48"	0	0
Over 48"	9	0

The above estimate is approximate and the State of Ohio reserves the right to order the removal of additional trees or stumps outside the limits of construction but within the right-of-way and/or easement lines. Payment for the removal of these additional trees or stumps shall be included in the lump sum price bid for Item E-9, Removal of Trees and Stumps.

L-9 COMMERCIAL FERTILIZER
All areas to be seeded under Item L-9, or sodded under Item L-10, shall have commercial fertilizer, 12-12-12, applied at the rate of twenty (20) pounds per 1,000 square feet.

SEEDING FORMULA
The following seed mixture shall, in lieu of the mixtures listed in Section L-9.11, be used throughout the limits of this project:

65% Kentucky 31 Fescue
20% Kentucky Bluegrass
10% Creeping Red Fescue
5% Alsike Clover

SEEDING
Seeding on this project shall be limited to the channel slopes and the section of TR 435 Relocation being paved between Stations 33 + 55 and 64 + 50.
New channel banks shall be seeded where riprap or dumped rock is not provided.
Channel flow lines and channel banks below normal water level shall not be seeded.

SPECIAL DITCHES
For special ditch grades, see Cross Sections.

EXISTING NON-RIGID PAVEMENT
Removal and disposal of the existing non-rigid pavement shall be included in the Roadway Excavation Quantities, unless otherwise noted on the plans.
Within the limits of construction where the existing flexible pavement will have less than six (6) inches of fill placed upon it, or where it is noted on the plans for pavement to be scarified, the pavement shall be thoroughly scarified for its full depth, mixed with sufficient soil and properly recompacted to insure the elimination of any planes of separation between it and the embankment placed thereon. Payment for scarification as described above shall be included in the unit price bid for Item E-1, Roadway Excavation.

GRANULAR LAYER UNDER EMBANKMENT
An 18" compacted layer of granular material shall be placed on the existing ground throughout the full embankment width between the stations noted below. This material may be placed in a single lift by the method of end dumping.

The type of material and gradation requirements shall be one of the following:

A. Broken sandstone or limestone which can be incorporated in a 9" lift and which contains not more than 5% passing a No. 200 sieve as determined by standard tests including washing.

B. Sand -

Sieve Size	Percent Passing
1/2"	80-100
No. 10	35-100
No. 40	10-50
No. 200	0-5

Compliance with above grading shall be determined by standard tests including washing.

In all areas where the plans call for the construction of an initial lift of granular material, the foundation shall be cleared and grubbed as required in Sec. E-1.03, but it need not be scalped. Precompaction requirements of Sec. E-1.04 are also waived for these areas.

Centerline	Stations
US 40	197+30 to 219+50
E.B. US 40	220+00 to 231+00
W.B. US 40	221+00 to 226+50
N.B. US 21	*461+50 to 463+50
S.B. US 21	*466+00 to 472+50
Ramp "A"	29+50 to 33+00

In locations where the T.R. 435 Relocation Embankment is adjacent to the above embankment locations, the granular material shall extend through the T.R. 435 embankment.
*Granular layer shall not be placed on existing ground with elevation higher than 787.0

Material for the Granular Layer shall be measured and paid for as Item E-4 Borrow using Granular Material, as per plan.

SPECIAL EMBANKMENT CONSTRUCTION:
Special care shall be given to the construction of proposed embankment between stations: 198+00 to 203+00 US 40 West Bound Lanes, 199+40 to 204+30 US 40 East Bound Lanes and 234+60 to 236+00 W. B. US 40 including area under the S. B. US 21 structure abutments assuming that mine voids will be encountered. All soil placed in embankment within these limits shall be spread in layers not greater than 6 inches loose depth and shall be compacted to not less than 102 percent of Laboratory Maximum Dry Weight. Each lift shall be approved before material for the next lift is brought in.
All shale or rock placed as fill in this area shall be spread in layers not greater than 8 inches loose depth. Rock which cannot be incorporated into an 8-inch lift shall either be reduced in size or excluded from this part of the embankment. All shale layers and layers containing a mixture of shale and rock shall be sprinkled prior to, or during compaction, as directed by the Engineer, until the moisture content of the shale is not less than optimum minus 3 percent and not more than optimum. Each shale or rock layer shall be rolled with at least four (4) complete coverages of a fully-ballasted tamping roller and at least two (2) complete coverages of a fully-ballasted 50-ton pneumatic tired roller as specified below. All other provisions of Section E-1.08 of the Construction and Material Specifications shall remain in effect.

The 50-ton pneumatic tired roller shall consist of four heavy rubber tired wheels mounted on a rigid steel frame. The wheels shall be evenly spaced in one line across the width of the roller and shall be arranged in such a manner that all wheels will carry approximately equal loads when operated over an uneven surface. The maximum center to center spacing between adjacent wheels shall not exceed 32 inches. The equipment shall have a suitable body for ballast loading. Ballast shall consist of suitable material of known unit weight in sufficient amount to load the equipment to a gross weight of 50 tons.

The Engineer of Construction, Bureau of Construction, Central Office, shall be notified when embankment construction is started in this area.

Payment for all of the above, including all extra operations and equipment specified, shall be included in the unit price bid for Item E-1, Roadway Excavation, Method "B", as per plan.

EMBANKMENT WITH NO ROCK
The embankment shall consist of soil between the station indicated below in order to allow for the driving of piles through the embankment at the abutments on the Part 2 project. No rock or shale will be allowed in the embankment within these limits.

Sta. 221+80 to Sta. 222+20	E.B. US 40
Sta. 224+80 to Sta. 225+20	E.B. US 40
Sta. 221+20 to Sta. 221+60	W.B. US 40
Sta. 224+10 to Sta. 224+50	W.B. US 40
Sta. 31+70 to Sta. 32+10	Ramp "A"
Sta. 34+80 to Sta. 35+20	Ramp "A"
Sta. 471+20 to Sta. 471+60	S.B. US 21
Sta. 472+10 to Sta. 472+50	S.B. US 21

BENCHING OF FOUNDATION SLOPES
Although cross sections on this plan indicate specific widths and depths of proposed benching of the embankment foundation in certain areas, no waiver of the specifications is intended and all other sloped foundation areas shall be benched as set forth in Sec. E-1.04. No additional payment will be made for benching required by the provisions of Sec. E-1.04.

CONSTRUCTION LAYOUT STAKES
See note in proposal describing the work included in this lump sum pay item.

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COAL MINE VOIDS
Between Stations 231+00 and 236+25 West Bound US 40 after the rough grading has been completed, the Contractor shall make a series of borings on centerline at 50 foot intervals and on a grid pattern with the centerline, at 50 foot intervals left and right of each hole made on centerline to the proposed ditch location.

At the proposed S. B. US 21 over W.B. US 40, structure location the holes shall extend left and right at 50 foot intervals to and including the limits of the abutment.

The borings shall penetrate through the coal or mine void and at least to elevation 825.0.

The borings shall be made withpower drills or other suitable equipment capable of penetrating rock.

The cost of this exploratory boring shall be included in the unit price bid per cubic yard for Item E-1, Roadway Excavation, Method B as per plan.

Where coal mine voids are encountered, the overburden over the mine shall be removed. The mine void and the overburden area between the bottom of the mine and the finished roadway grade shall be filled in accordance with the General Note titled "Special Embankment Construction." Estimated Quantities for excavation and filling of the mine and overburden between the mine and finished roadway grade have been included in the E-1 quantities.

SETTLEMENT PLATFORMS
Settlement platforms shall be provided at the following locations:

Sta. 198+00	US 40	-71'LT.
Sta. 204+30	US 40	-71'Rt.
Sta. 31+75	Ramp "A"	- 5'Rt.
Sta. 35+05	Ramp "A"	- 5'Rt.
Sta. 224 +60	W.B. US 40	-20'Rt.
Sta. 221+60	E.B. US 40	-17'Rt.
Sta. 225+30	E.B. US 40	- -17'Rt.
Sta. 228+50	E.B. US 40	-30'Rt.
Sta. 471+30	S.B. US 21	-17'Lt.
Sta. 472+40	S.B. US 21	-17'Lt.

FEDERAL AID CONSTRUCTION IDENTIFICATION SIGNS:-
The Contractor shall furnish, erect, maintain and subsequently remove Federal Aid construction identification signs at each of the following locations:

1. 425+00 South Bound US 21 Right
2. 477+00 North Bound US 21 Left

Sign details shall be as specified on Standard Drawing FACI-1, "Code N-43(2) 144", and the signs shall be erected in accordance with Standard Drawing FACI-2. Additional requirements shall be in accordance with notes in the proposal.

PRIVATE SEWER TAPS ON L.A. R/W
This plan makes no provision for connecting, nor shall the Engineer or Contractor connect, any existing or new private drainage to the new highway drainage system when such private drains carry effluent or drainage from leaching bed outlets, cellar drains, or sink drains, or polluted water of any kind. Connections may be made to the existing or new highway drainage system when the water carried to the project drainage system does not come within the category outlined above. Acceptable water includes flow from roof drains, field drains, and enclosed natural drainage sources which would reach the road through natural channels if such water was not conducted artificially. Existing sewer taps which do not carry acceptable water as defined above shall be plugged at the right-of-way line and which must be disturbed because of the highway improvement shall be reconnected to either the existing or proposed sanitary sewer system. Plugging specified shall be by means of Class "E" Concrete and payment therefor shall be included in the unit price bid for Item E-1, Roadway Excavation.

REINFORCED ENDS ON CORRUGATED METAL PIPE
Reinforced ends shall be required on all corrugated metal Class F-1, Sec. M-6.4 (c) pipe for driveways and underdrain outlets if the pipe ends are unprotected by headwalls, catch basins or manholes.

REMOVAL OF EXISTING PIPE
The removal of all existing pipe drains within the limits of proposed excavation items shall be included for payment in the unit prices bid for the respective excavation items, unless otherwise itemized in the plans.

ITEM SPECIAL, DRILLED WELL ABANDONED
The existing concrete or stone slab well cover shall be removed and disposed of. The pump and all other salvageable parts shall be carefully removed and stored on the abutting property.

The casing shall be cut off at least two feet below the proposed finished grade outside proposed pavement areas or at least two feet below the proposed subgrade elevation inside proposed pavement areas and capped with Class "E" Concrete or a standard threaded pipe cap.

The unit price bid for each "Drilled Well Abandoned" shall include payment for all labor, tools, materials, and incidentals necessary to complete this item. *5 each to General Summary.*

PLUGGING PIPE ENDS
The ends of pipe lines or tile lines intercepted by earthwork operations shall be effectively blocked and covered. Broken pieces and portions of pipe or tile shall be removed until a whole length is encountered, which shall be blocked with concrete, or brick laid in mortar, precast clay or concrete stopper. Payment for the above work shall be included in the unit price bid for Item E-1, Roadway Excavation.

CHANNEL EXCAVATION
Excavation from channel excavation shall be used only for filling existing channels not used for roadway embankment.

LOCATION AND SIZE OF PIPES
The location, type, depth, and size of all existing pipes are shown as near exact as the available information will permit. The State will not be responsible for any variations found during construction.

MAINTENANCE OF TRAFFIC
US 21
Two-way traffic shall be maintained at all times.

Township Road 435
Two-way traffic shall be maintained at all times, except at the points of connection between existing T.R. 435 and T.R. 435 Relocation.

At the two connection points, one-way traffic may be maintained for a period not to exceed thirty (30) consecutive calendar days.

Traffic shall be maintained on the existing pavement and existing shoulders as required and as approved by the Engineer.

Temporary pavement shall consist of Traffic Compacted Surface and Calcium Chloride, and shall be provided where traffic is not maintained on the existing or new pavement. Estimated quantities have been provided in the General Summary to be used at the direction of the Engineer.

Twelve (12') foot pavement shall be provided for one-way traffic.

ALL OTHER PUBLIC ROADS
Two-way traffic shall be maintained at all times, on all other public roads, within the construction limits of this project.

MAINTAINING EXISTING ROADS
All existing roads within the limits of work shall be maintained by the Contractor. Payment is to be included in lump sum bid price for Maintenance of Traffic.

TEMPORARY CONNECTIONS AND MAINTENANCE OF LOCAL TRAFFIC
525 C.Y. of T-10 Aggregate, 10 tons of M-10 Calcium Chloride and is to be used at the direction of the Engineer for temporary connections not shown on the plans. Payment for construction, maintenance and subsequent removal and restoration to original lines of temporary connections, except for furnishing and placing items T-10 and M-10 for maintaining traffic, shall be included for payment in the lump sum bid for "Maintaining Traffic".

ALTERNATE METHODS
If the Contractor so elects, he may submit alternate methods for the maintenance of traffic provided the intent of the above provisions is followed and no additional inconvenience to the traveling public results therefrom. No alternate plan shall be placed into effect until approval has been granted, in writing, by the Director.

Existing U.S. 21
The existing pavement shall not be disturbed on this Project.

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WATER LINE NOTES

EXISTING UTILITIES
All existing surface, subsurface, or overhead structures are not necessarily shown on the water line drawings. The State of Ohio makes no guarantees as to their accuracy or completeness.

The Contractor shall make such investigations as are necessary to determine the extend to which existing surface, subsurface or overhead structures may interfere with the prosecution of the works.

LINES TO BE ABANDONED
Water Lines to be abandoned need only be removed to the limits necessary for the Contractor to complete his work.

PIPE REMOVAL
Payment for the removal of any existing water line necessary to make new connections shall be included in the price bid per lin. ft. for "New Water Main" unless otherwise noted on the plans.

WATER SERVICE
Work shall be scheduled and coordinated so as to minimize inconvenience to the City of Cambridge due to loss in water service.

The Contractor shall limit the down time necessary for making the connections between the new 24" water main and the existing 24" water main to four (4) continuous hours.

The four (4) hours selected by the Contractor, in which to perform the connections, shall fall between 10:00 p.m. on a Saturday night and 6:00 a.m. the following morning.

The Contractor shall notify the City of his intentions to make the connections at least forty-eight (48) hours in advance of actual performance.

The Contractor shall provide and use two full crews and make the two connections simultaneously.

NEW WATER MAINS
All new water mains shall be AWWA CL 150, Cast Iron Mechanical Joint Pipe. Pipe shall be "tar dipped" for coating inside and out.

WATER MAIN PIPE COVER
Pipe cover for new water mains shall be a minimum of 3 feet between top of pipe and existing ground or finished grade.

MISCELLANEOUS CONNECTIONS
The Contractor shall furnish all test plugs and caps and blow-off taps required for the job. Payment shall be included in the price bid per lin. ft. for "New Water Mains".

PAINTING
All pipe accessories such as steel, bolts, straps, etc. which are not encased in concrete, shall be painted with an approved bitumastic paint after assembly in the work.

BLOCKING BACKING & ENCASEMENT
No separate payments will be made for steel pipe straps, steel backing plates, concrete backing, timber blocking, or Conc. Encase. as called for in details. Cost shall be included with the unit price bid for Item I-124 "New Water Mains". Conc. Encasement and backing shall consist of Class "E" concrete.

WORK SCHEDULE
The Contractor must submit a Work Schedule to the Engineer, who will in turn submit it to the Superintendent of the Water Department for his approval. Water lines will be laid in accordance with the approved Work Schedule.

TESTING
For the "Hydrostatic Test", the normal operating pressures will be furnished by the Engineer who shall obtain them from the City of Cambridge Water Department.

INSERTING VALVES
Inserting valves shall be iron body, bronze mounted, non-rising stem, double disc, parallel seat, open counterclockwise, be equipped with enclosed cut teeth steel bevel gears, tracks and rollers, and be installed in a horizontal position, A.W.W.A., 300 pound test pressure, 150 pound working pressure, as manufactured by A.P. Smith Manufacturing Company or Mueller or approved equal. The Contractor shall uncover the existing 24" main at the proposed valve locations and obtain the outside diameters, checking for pipe being out of round, of the cast iron pipe, and this information shall be immediately forwarded to the valve manufacturer to obtain an early delivery of the valves.

The Contractor shall obtain and pay for the services of a manufacturer's representative to supervise all inserting valve installations. After the valve body has been installed, but before any cutting is made, the unit shall be tested under 150 psi water pressure, any leaks shall be repaired. The price bid for each shall constitute full compensation for all material, labor, manufacturer's representative charges, equipment rentals and testing; all as required for excavation, installation and backfilling at each location shown on the drawings.

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ITEM	General Notes	12	14		31	32	33		38			49	50	57	59	207	208	209	210	211		ITEM	TOTALS		TOTAL PROJECT	UNIT	DESCRIPTION TYPE CODE 0010
																											ROADWAY
E-1		5,406																				E-1			5,406	S.Y.	Compacted Subgrade
E-1		1,698,759																				E-1			1,698,759	C.Y.	Roadway Excavation, Method "B"; as per plan
E-4		88,883																				E-4			88,883	C.Y.	Borrow, Using Granular Material, as per plan
E-9	Lump																					E-9			Lump	Lump	Removal of Trees and Stumps
E-11		8,498																				E-11			8,498	M-Gal	Water
I-15														272								I-15			272	L.F.	Guard Rail, 3 Wire Cable Type
I-15															3							I-15			3	Ea.	Wood Guard Rail Posts, without Rail
L-9		37,021																				L-9			37,021	S.Y.	Seeding and Protecting, as per plan
L-9		3.5																				L-9			3.5	Tons	Commercial Fertilizer (12-12-12)
L-9		17.5																				L-9			17.5	Tons	Agricultural Liming Material, as per plan
L-10							313		428					1,176	253							L-10			2,170	S.Y.	Sodding
M-10	10	5.7																				M-10			15.7	Tons	Calcium Chloride Furnished and Applied
T-10	525																					T-10			525	C.Y.	Traffic Compacted Surface Course for Maintaining Traffic.
Special		5,406																				Special			5,406	S.Y.	Mixing Calcium Chloride and Aggregate
Special		5,659																				Special			5,659	L.F.	R/W Fence Removed and Stored, as per plan
Special	10																					Special			10	Ea.	Settlement Platforms, as per plan
Special	5																					Special			5	Ea.	Drilled Wells Abandoned, as per plan
E-10																						E-10			Lump	Lump	Removal of one 1 Story Frame Residence, one Frame Barn and eight Sheds - Parcel 13-LA
																											DRAINAGE
E-2			165																			E-2			165	C.Y.	Excavation for Structures
E-2			Lump																			E-2			Lump	Lump	Cofferdams, Cribs and Sheeting
E-2			1,805																			E-2			1805	S.F.	Sheet Piling Left in Place, as per plan
E-3		177,685														218			6	381		E-3			178,290	C.Y.	Channel Excavation
I-1									50						38							I-1			88	L.F.	12" Class F-1
I-1																82						I-1			82	L.F.	24" Class A-1, M-6.4(a) or M-6.8(b)
I-1																		54	64			I-1			118	L.F.	27" Class A-1, M-6.4(d)
I-1																	60					I-1			60	L.F.	30" Class A-1, M-6.4(d)
I-1																				264		I-1			264	L.F.	90" Class A-1, M-6.4(g), B-5 Gage
I-2																0.82				76.00		I-2			76.8	C.Y.	Masonry
I-9							1,000															I-9			1,000	L.F.	Stone Underdrains, N°2
I-10					220	233	3,833		868				2,688	1,557	91	180	64	70	16	303		I-10			10,065	C.Y.	Dumped Rock Channel Protection
I-10																	15	14				I-10			29	S.Y.	Riprap, using 6" Reinforced Concrete Slab, as per plan
S-1		86.00																				S-1			86	C.Y.	Concrete for Structures, Class "C"
S-4		1,923																				S-4			1923	Lbs.	Reinforcing Steel
I-16							2		1			1		4	1							I-16			9	Ea	Manholes Abandoned
Special			Lump																			Special			Lump	Lump	Slide Gate and Frame, as per plan
																											PAVEMENT
B-10		1,201							154			3		8	46							B-10			1,273	C.Y.	Aggregate Base Course
																									Lump	Lump	Construction Layout Stakes
																											WATER LINES See Sheet N° 13 for Quantities

GENERAL SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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GUERNSEY COUNTY
GUE-40-8.93
PART I

SUMMARY OF QUANTITIES

EARTHWORK & SEEDING

LOCATION	E-1	Gross Embankment	E-4 Granular	Net Embankment	Emb. +12%	E-4 +20%	E-3 *	Seeding	Channel Fill		
UNITS	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	S.Y.	C.Y.		
195+00 U.S. 40 to 222+86 E.B. U.S. 40 &											
222+32 W.B. U.S. 40	155	825,515	49,695	775,820	868,918	59,634					
224+56 to 243+00 E.B. U.S. 40	95,359	328,550	8,506	320,044	358,449	10,207					
265+50 to 270+00 E.B. U.S. 40	11,284										
224+32 to 236+25 W.B. U.S. 40	181,799	106,547	1,803	104,744	117,314	2,164					
243+25 to 251+00 W.B. U.S. 40	34,838										
258+75 to 269+50 W.B. U.S. 40	265,391										
434+00 to 442+25 N.B. U.S. 21	224,832										
443+40 to 452+50 N.B. U.S. 21	133,925										
460+50 to 464+42 N.B. U.S. 21		39,905	575	39,330	44,050	690					
430+25 to 441+50 S.B. U.S. 21	232,779										
466+00 to 475+00 S.B. U.S. 21	180	181,987	8,584	173,403	194,211	10,301					
52+70 to 64+50 T.R. 435 &											
29+50 to 31+90 Ramp "A"	7,961	38,905	2,266	36,639	41,036	2,719					
14+90 to 24+75 Ramp "B"	72,191										
16+25 to 22+18 Ramp "C"	244,510										
19+58 to 24+58 Ramp "D"	191,108	29,783		29,783	33,357						
33+55 to 52+70 T.R. 435 Reloc.	2,467	39,284	2,640	36,644	41,041	3,168					
33+55 to 46+00 T.R. 435 Reloc.								9,383			
46+00 to 52+00 T.R. 435 Reloc. & Wills Creek No 1.							10,990	3,781			
52+00 to 64+50 T.R. 435 Reloc.								7324			
31+00 to 46+00 Wills Creek Reloc. No 1.							39,819	4,956	1,593		
52+00 to 61+00 Wills Creek Reloc. No 1.							39,355	4,117	5,397		
63+00 to 74+00 Wills Creek Reloc. No 2.							49,351	3,089	5,206		
207+00 to 224+00 Chapman Run Reloc.							29,140	4,371			
Filling Existing Channel Outside of Roadway Slopes.									133,450		
Total		1,590,476	-74,069	= 1,516,407	1,698,376				145,646		
Total to General Summary	1,698,759					88,883	177,685	37,021			

*Unsuitable for Roadway Embankment.
To be used for channel fill.

PAVEMENT CALCULATIONS

B-19 8" AGGREGATE BASE COURSE

Sta. 33+55 to Sta. 34+25 T.R. 435 Reloc. = 70 L.F.
Total 70 L.F. x 15' = 1,050 S.F.
Sta. 34+25 to Sta. 64+00 T.R. 435 Reloc. = 2,975 L.F.
Total 2,975 L.F. x 16' = 47,600 S.F.
Total = 48,650 S.F.

$48,650 \times \frac{2}{3} \div 27 = 1201$ C.Y.

Total to General Summary----------1,201 C.Y.

SPECIAL-MIXING CALCIUM CHLORIDE AND AGGREGATE

Area from B-19 (8") = 48,650 S.F.

$48,650 \times \frac{1}{9} = 5,406$ C.Y.

Total to General Summary----------5,406 S.Y.

M-10 CALCIUM CHLORIDE FURNISHED AND APPLIED FOR ITEM SPECIAL - CALCIUM CHLORIDE (APPLICATION RATE - 2.1 LBS./S.Y.

Area from B-19 (8") 48,650 S.F.

$48,650 \times 2.1 \times \frac{1}{9} \times \frac{1}{2000} = 5.68$ Tons

Total to General Summary----------5.7 Tons.

E-1 COMPACTED SUBGRADE

Area from B-19 (8") 48,650 S.F.

$48,650 \times \frac{1}{9} = 5,406$ S.Y.

Total to General Summary----------5,406 S.Y.

EARTHWORK

E-1 Excavation 1,698,759 C.Y.
Embankment +12% 1,698,376 C.Y.
Excess 383 C.Y.

R/W FENCE, REMOVED & STORED

Location	Length
430+25 S.B. U.S. 21 Rt. to 475+00 S.B. U.S. 21 Lt.	3,516 L.F.
245+00 E.B. U.S. 40 & to 457+50 N.B. U.S. 21 Rt.	2143 L.F.

Total to General Summary-----5659 L.F.

WATER

Emb. +12% 1,698,376 C.Y.
B-19 1,273 C.Y.

Total 1,699,649 C.Y.
Water = $1,699,649$ C.Y. $\times \frac{5 \text{ Gal.}}{1 \text{ C.Y.}} \times \frac{1M \text{ Gal.}}{1000 \text{ Gal.}} = 8,498$ M-Gal. to General Summary.

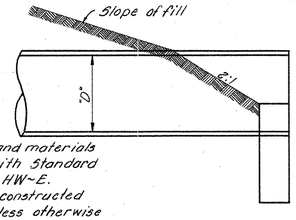
FERTILIZER

L-9 Seeding 37,021 S.Y.
L-10 Sod 2,170 S.Y.

Total 39,191 S.Y.
Fertilizer = $39,191$ S.Y. $\times \frac{20\#}{1000 \text{ S.F.}} \times \frac{9 \text{ S.F.}}{1 \text{ S.Y.}} \times \frac{1 \text{ Ton}}{2000\#} = 3.5$ Tons to General Summary.

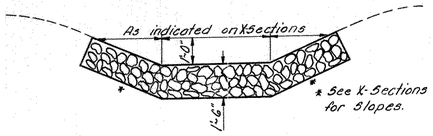
LIMING MATERIAL

Liming Material = $39,191 \frac{100\#}{1000 \text{ S.F.}} \times \frac{9 \text{ S.F.}}{1 \text{ S.Y.}} \times \frac{1 \text{ Ton}}{2000\#} = 17.5$ Tons to General Summary.

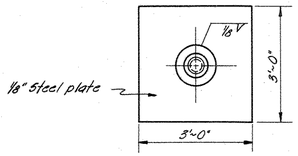


All other dimensions and materials to be in accordance with Standard Construction Drawing HW-E.
All endwalls are to be constructed normal to the pipe, unless otherwise noted on the plans.
Dimensions shown on plans to end of pipe are to outside face of endwalls.

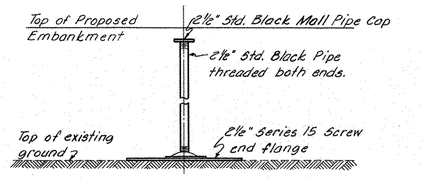
HW-E ENDWALL



ROADSIDE DITCH
DUMPED ROCK DETAIL

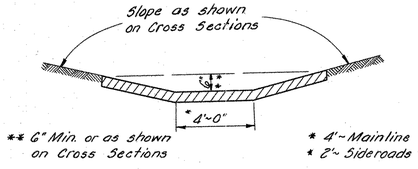


PLAN

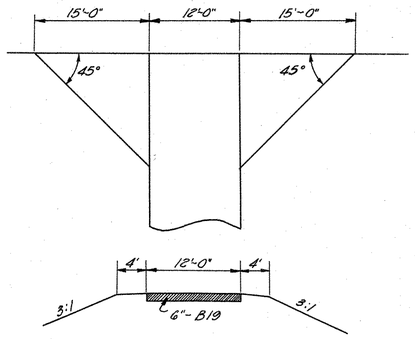


Note: Contractor to furnish materials & labor to extend pipe up through entire fill. Top of pipe cap shall extend to 6" below surface. Cost of all labor & materials required to complete the above Item shall be included in unit price bid for Item - Special - Settlement Platform, as per plan.

DETAILS OF SETTLEMENT PLATFORM



ROADWAY DITCH
SOD DETAIL

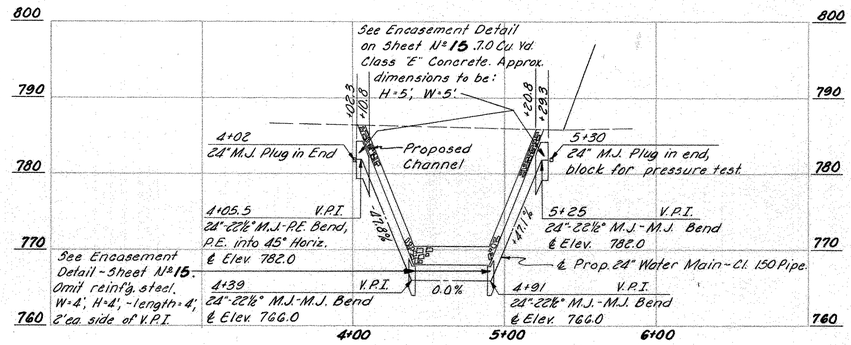


FIELD DRIVE PLAN
& TYPICAL SECTION

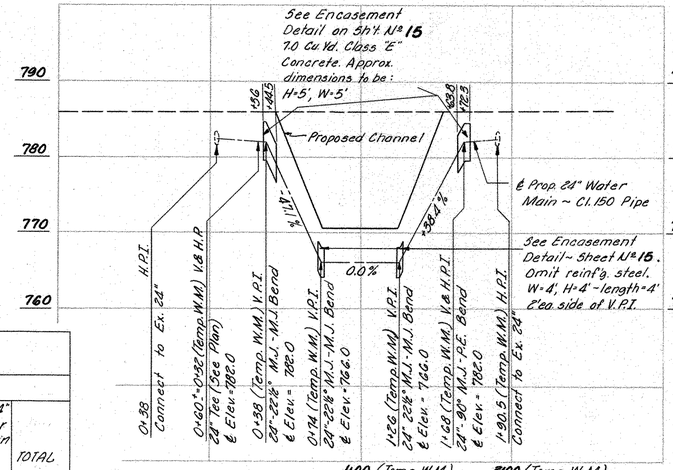
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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GUERNSEY COUNTY
GUE-40-8.93
PART-1



PROFILE ON ℄ OF 24" WATER MAIN
CROSSING PROPOSED WILLS CREEK
RELOCATION AT STATION 71+81.4



PROFILE ON ℄ OF 24" WATER MAIN
CROSSING PROPOSED WILLS CREEK
RELOCATION AT STATION 68+19

Note: Both sections of 24" Water Main to be built in dry prior to diverting Wills Creek channel flow. 24" Water Main at 71+81.4 to remain filled with water after pressure test.

ESTIMATED QUANTITIES
FOR WATER LINES

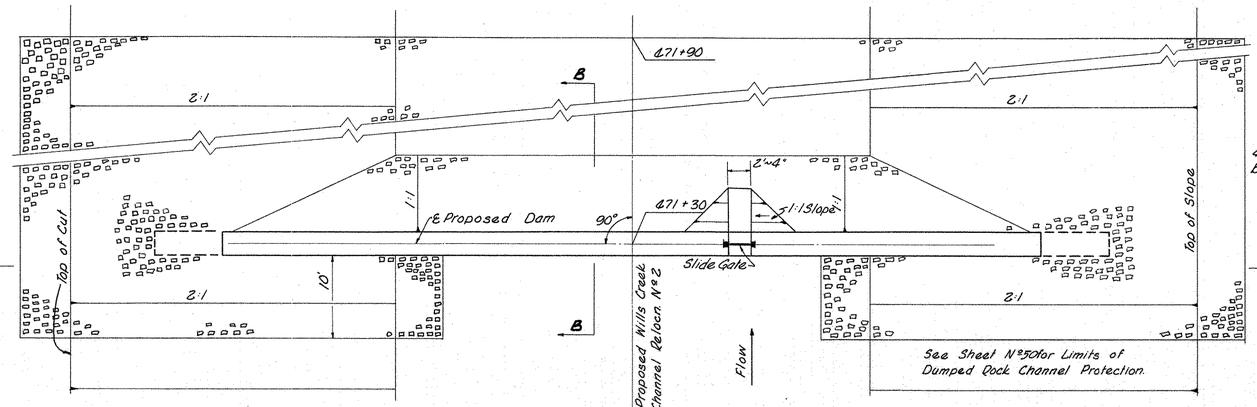
ITEM	DESCRIPTION	QUANTITIES			
		Crossing at 71+81.4 Channel Relocation	Crossing at 68+19 Channel Relocation	Ex. 24" Water Main	TOTAL
I-124	24" C.I.M.J. Pipe - Class 150 "New Water Main"	125	165		290 L.F.
I-124	24"x24"x24" M.J.-P.E.-M.J. Tee		1		1 Ea.
I-124	24"x90° M.J.-P.E. Bend		3		3 Ea.
I-124	24"x45° M.J.-M.J. Bend	1			1 Ea.
I-124	24"x22½° M.J.-P.E. Bend	1			1 Ea.
I-124	24"x22½° M.J.-M.J. Bend	3	3		6 Ea.
I-124	24" Solid Leaded Sleeve		2		2 Ea.
I-124	24" M.J. Plug	2	1		3 Ea.
I-124	24" Inserting Valve			2	2 Ea.
I-8	Valve Manhole, as per plan			2	2 Ea.

WATER LINE PROFILES &
SPECIAL DETAILS

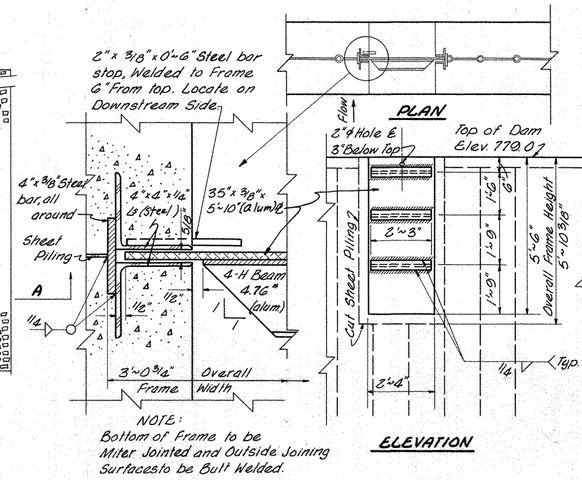
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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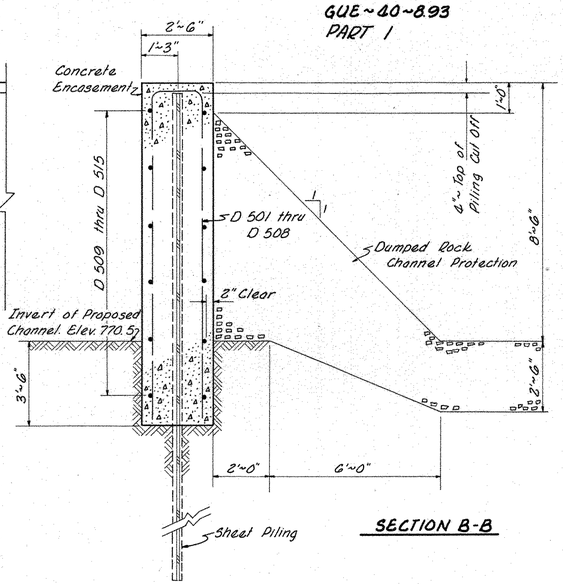
GUERNSEY COUNTY
GUE-40-8.93
PART 1



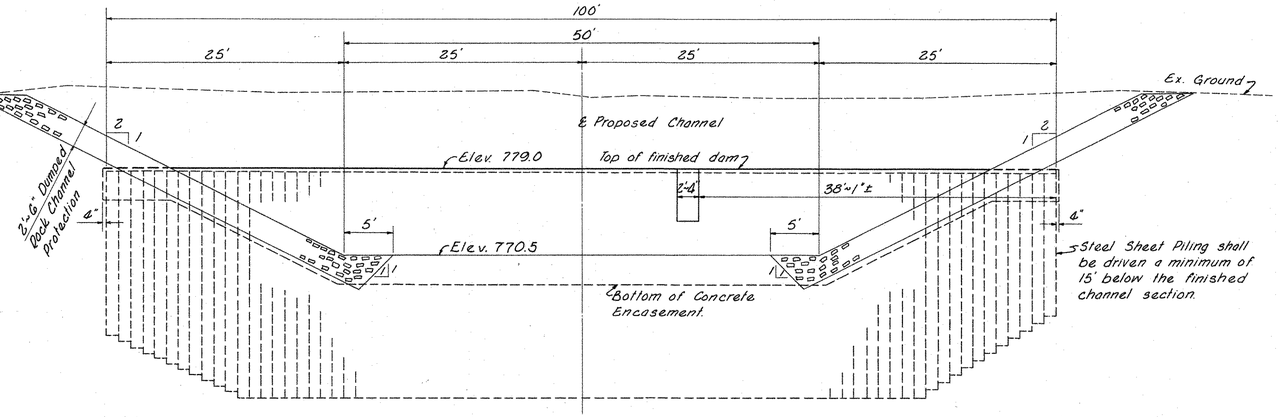
PLAN



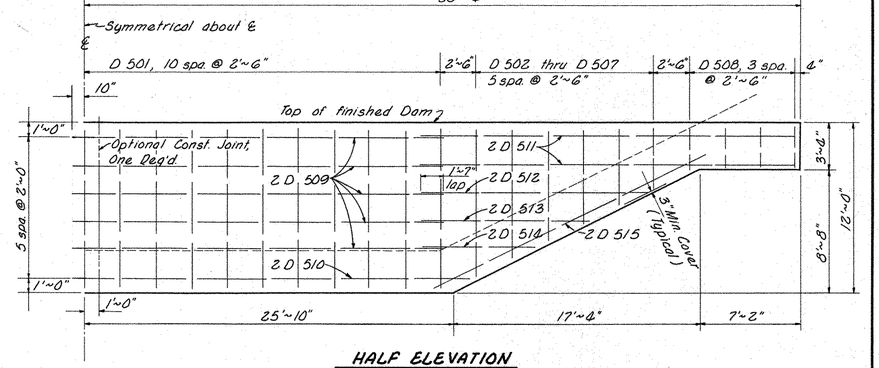
SLIDE GATE DETAILS



SECTION B-B



SECTION A-A



HALF ELEVATION OF DAM

NOTES

Piling Size: Sheet piling shall be Bethlehem Steel Co. designation SP Ga, or equal.

Driving Piling: The tops of the piles shall be protected in a manner that will prevent damage to the piles while driving. The hammer shall be as specified in Sec. 5-18.03 of the Construction and Material Specifications. Piles shall be driven vertically.

Piling Cut-off: After being driven, the piles shall be cut off square as indicated on the plans.

Rejection: Injured piles shall be pulled and removed from the site as directed by the Engineer.

Method of Measurement: Steel sheet piling to be paid for shall be the actual number of square feet in place, completed and accepted.

SLIDE GATE & FRAME

Material: Gate material shall conform to Section M-7.19.

Payment: The lump sum payment for this item shall constitute full compensation for furnishing all material, labor, tools and incidentals necessary to complete this item. Material in frame shall be steel Sec. M-7.4(a)

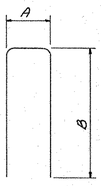
ESTIMATED QUANTITIES

ITEM	DESCRIPTION	QUANTITIES
E-2	Cofferdams, Cribs and Sheeting	Lump
E-2	Excavation for Structures	165 Cu.Yd.
E-2	Sheet Piling left in place (Minimum section modulus of 2.4 in^3 per ft. of wall.)	1805 Sq.Ft.
S-1	Concrete for Structures, Class "C"	86 Cu.Yd.
S-4	Reinforcing Steel	1923 Lbs.
*	Special Slide Gate & Frame as per plan	Lump Sum

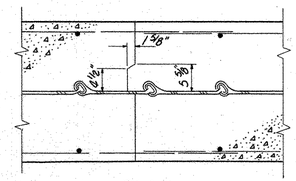
For Dumped Rock Channel Protection Quantities, See Sheet No 11

REINFORCING STEEL LIST

MARK	No	LENGTH	WEIGHT	TYPE	"A"	"B"	SHP
D 501	21	28'-9"	543	1	2'-0"	11'-6"	bt
D 502	2	21'-11"	46	1	2'-0"	10'-7"	bt
D 503	2	20'-5"	43	1	2'-0"	9'-8"	bt
D 504	2	17'-11"	38	1	2'-0"	8'-1"	bt
D 505	2	15'-5"	32	1	2'-0"	6'-10"	bt
D 506	2	12'-11"	27	1	2'-0"	5'-7"	bt
D 507	2	10'-5"	21	1	2'-0"	4'-4"	bt
D 508	8	7'-5"	62	1	2'-0"	2'-10"	bt
D 509	20	26'-0"	542				st
D 510	4	28'-0"	117				st
D 511	8	26'-3"	220				st
D 512	4	15'-6"	65				st
D 513	4	11'-6"	48				st
D 514	4	7'-6"	31				st
D 515	4	21'-0"	88				st



BENT BAR TYPE I



PLAN CONSTRUCTION JOINT DETAIL

NOTE: Bars to be cut in the field to allow for placing of Slide Gate. Cut bars 2" back of finished clear opening.

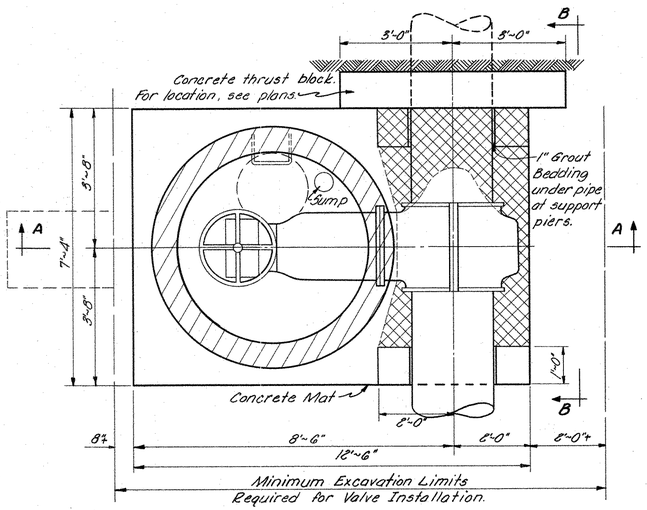
PROPOSED LOW HEAD DAM DETAILS

EDGE_GUE-40-8.93 Low Head Dam Details 7-24-02 D.L.M.

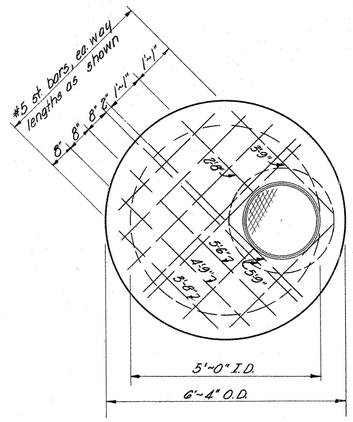
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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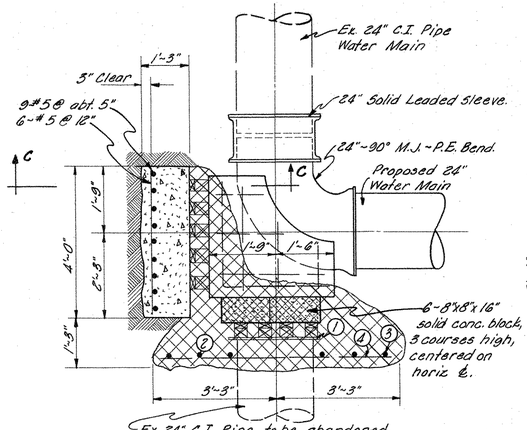
GUERNSEY COUNTY
GUE-40-8.93
PART I



SECTIONAL PLAN



PLAN
TOP SLAB REINFORCING



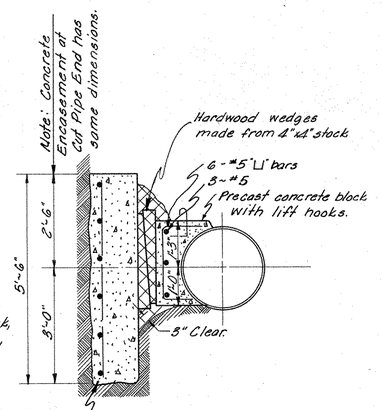
Ex. 24" C.I. Pipe to be abandoned. Pipe between connection points to remain in place 5 days after concrete encasement is placed. Excavation and pipe removal work to be done no closer than 10' from bearing face of backer.

PLAN

① 28"x1½"x2'-4" ℞ centered on cut pipe end.

②③ 3 ea. -#8@10" Bars 5'-0" long.

④ 7-#8@6" Bars 6'-0" long, 3 above & 4 below pipe.



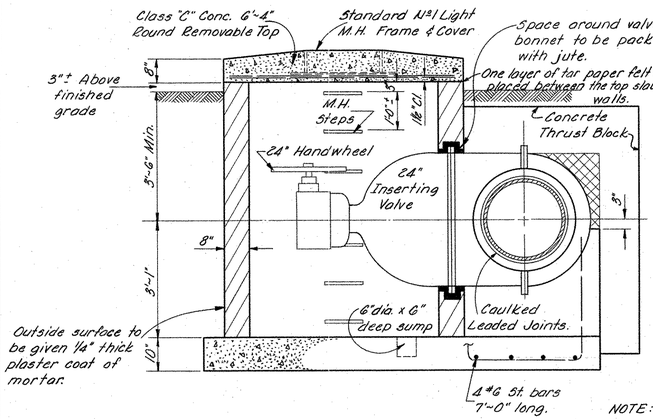
Class "E" Concrete backer to be formed & cured in trench 5 days prior to making connection. Place concrete against firm backing.

Note: Areas shown double cross hatched denote limits of Class "E" Concrete to be used for encasement after main is in operation.

SECTION C-C

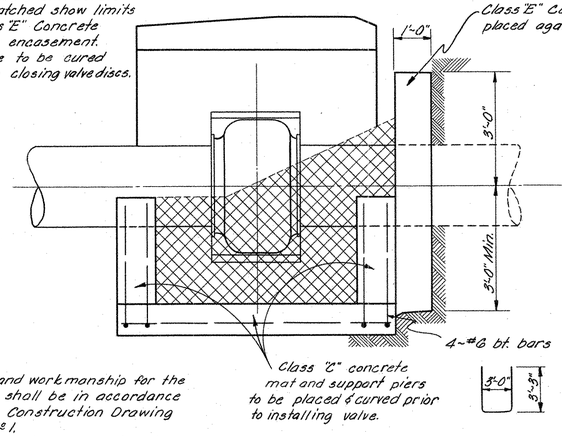
DETAILS - CONNECTIONS TO EXISTING MAINS

Sta. 0+38 - Shown
Sta. 2+11.5 (Temp. Main) - Opposite Hand



SECTION A-A

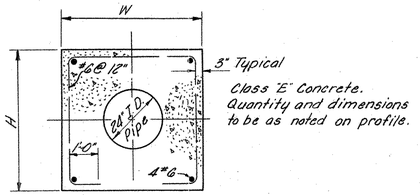
Note: Areas shown double cross hatched show limits of Class "E" Concrete. Concrete to be cured prior to closing valve discs.



SECTION B-B

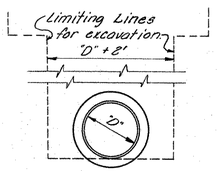
NOTE: All materials and workmanship for the Valve Manholes shall be in accordance with Standard Construction Drawing N°s I-8 M.H. N°s 1.
All materials and labor required to construct the manholes, except that required for the valve, shall be included in the price bid for I-8, Valve Manholes, as per plan.

VALVE MANHOLE DETAILS

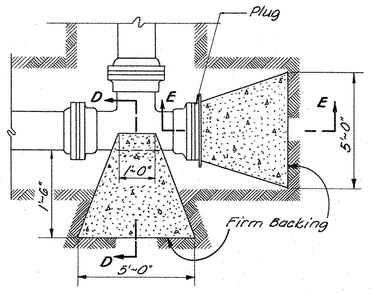


Note: Special precautions shall be used in the construction of joints, which are to be encased in concrete prior to pressure tests, in order to preclude leakage.

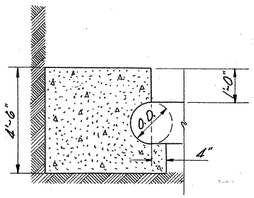
VERTICAL BEND ENCASEMENT DETAIL



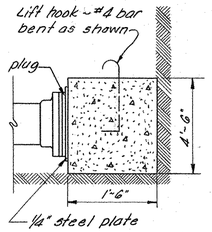
TYPICAL TRENCH



PLAN



SECTION D-D



SECTION E-E

TEE - BACKING

WATER LINE DETAILS

SUPERELEVATION TABLES

FED HD DIVISION	STATE	PROJECT	
2	OHIO		

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GUERNSEY COUNTY
GUE-40-8.93 PART I.

EAST BOUND U.S. 40

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
203+25.	822.89	823.08	822.89
203+50.	822.85	823.04	822.85
203+75.	822.79	822.98	822.79
204+00.	822.72	822.91	822.72
204+25.	822.63	822.82	822.67
204+50.	822.54	822.73	822.63
204+75.	822.43	822.62	822.61
205+00.	822.30	822.49	822.55
205+25.	822.16	822.35	822.47
205+50.	821.99	822.20	822.39
205+75.	821.79	822.04	822.29
206+00.	821.54	821.86	822.18
206+25.	821.29	821.67	822.05
206+50.	821.01	821.46	821.91
206+75.	820.74	821.25	821.76
207+00.	820.46	821.02	821.57
207+25.	820.19	820.77	821.35
207+50.	819.93	820.52	821.10
207+75.	819.66	820.24	820.82
208+00.	819.38	819.96	820.54
208+25.	819.08	819.66	820.24
208+50.	818.77	819.35	819.93
208+75.	818.45	819.03	819.61
209+00.	818.11	818.69	819.27
209+25.	817.76	818.34	818.92
209+50.	817.40	817.98	818.56
209+75.	817.03	817.61	818.19
210+00.	816.66	817.24	817.82
210+25.	816.29	816.87	817.45
210+50.	815.92	816.50	817.08
210+75.	815.55	816.13	816.71
211+00.	815.18	815.76	816.34
211+25.	814.81	815.39	815.97
211+50.	814.44	815.02	815.60
211+75.	814.07	814.65	815.23
212+00.	813.70	814.28	814.86
212+25.	813.33	813.91	814.49
212+50.	812.96	813.54	814.12
212+75.	812.59	813.17	813.75
213+00.	812.22	812.80	813.38
213+25.	811.85	812.43	813.01
213+50.	811.48	812.06	812.64
213+75.	811.11	811.69	812.27
214+00.	810.74	811.32	811.90
214+25.	810.37	810.95	811.53
214+50.	810.00	810.58	811.16
214+75.	809.63	810.21	810.79
215+00.	809.26	809.84	810.42
215+25.	808.89	809.47	810.05
215+50.	808.52	809.10	809.68
215+75.	808.19	808.75	809.31

Normal Section

EAST BOUND U.S. 40

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
216+00.	807.92	808.43	808.94
216+25.	807.69	808.14	808.59
216+50.	807.51	807.89	808.27
216+75.	807.36	807.68	808.00
217+00.	807.24	807.49	807.74
217+25.	807.13	807.34	807.53
217+50.	807.04	807.23	807.35
217+75.	806.96	807.15	807.21
218+00.	806.91	807.10	807.10
218+25.	806.90	807.09	807.03
218+50.	806.92	807.11	806.99
218+75.	806.98	807.17	807.00
219+00.	807.07	807.26	807.07
219+25.	807.19	807.38	807.19
219+50.	807.35	807.54	807.35
219+75.	807.54	807.73	807.54
220+00.	807.77	807.96	807.77
220+25.	808.03	808.22	808.03
220+50.	808.32	808.51	808.32
220+75.	808.65	808.84	808.65
221+00.	809.01	809.20	809.01
221+25.	809.41	809.60	809.41
221+50.	809.84	810.03	809.84
221+75.	810.30	810.49	810.30
222+00.	810.80	810.99	810.80
222+25.	811.34	811.53	811.34
222+50.	811.90	812.09	811.90
222+75.	812.50	812.69	812.50
223+00.	813.14	813.33	813.14
223+25.	813.81	814.00	813.81
223+50.	814.51	814.70	814.51
223+75.	815.23	815.42	815.23
224+00.	815.95	816.14	815.95
224+25.	816.67	816.86	816.67
224+50.	817.39	817.58	817.39
224+75.	818.11	818.30	818.11
225+00.	818.83	819.02	818.83
225+25.	819.55	819.74	819.55
225+50.	820.27	820.46	820.27
225+75.	820.99	821.18	820.99
226+00.	821.71	821.90	821.71
226+25.	822.43	822.62	822.43
226+50.	823.15	823.34	823.15
226+75.	823.87	824.06	823.87
227+00.	824.59	824.78	824.59
227+25.	825.31	825.50	825.33
227+50	826.03	826.22	826.10
227+75	826.75	826.94	826.88

EAST BOUND U.S. 40

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
228+00.	827.47	827.67	827.67
228+25.	828.19	828.38	828.47
228+50.	828.89	829.10	829.29
228+75.	829.54	829.82	830.10
229+00.	830.16	830.54	830.92
229+25.	830.78	831.26	831.74
229+50.	831.41	831.98	832.55
229+75.	832.03	832.70	833.37
230+00.	832.67	833.42	834.17
230+25.	833.37	834.14	834.91
230+50.	834.09	834.86	835.63
230+75.	834.81	835.58	836.35
231+00.	835.53	836.30	837.07
231+25.	836.25	837.02	837.79
231+50.	836.97	837.74	838.51
231+75.	837.69	838.46	839.23
232+00.	838.41	839.18	839.95
232+25.	839.13	839.90	840.67
232+50.	839.85	840.62	841.39
232+75.	840.57	841.34	842.11
233+00.	841.29	842.06	842.83
233+25.	842.01	842.78	843.55
233+50.	842.73	843.50	844.27
233+75.	843.45	844.22	844.99
234+00.	844.17	844.94	845.71
234+25.	844.89	845.66	846.43
234+50.	845.61	846.38	847.15
234+75.	846.33	847.10	847.87
235+00.	847.05	847.82	848.59
235+25.	847.77	848.54	849.31
235+50.	848.49	849.26	850.03
235+75.	849.21	849.98	850.75
236+00.	849.93	850.70	851.47
236+25.	850.65	851.42	852.19
236+50.	851.37	852.14	852.91
236+75.	852.09	852.86	853.63
237+00.	852.81	853.58	854.35
237+25.	853.53	854.30	855.07
237+50.	854.25	855.02	855.79
237+75.	854.97	855.74	856.51
238+00	855.69	856.46	857.23
238+25	856.41	857.18	857.95
238+50	857.13	857.90	858.67
238+75	857.85	858.62	859.39
239+00	858.57	859.34	860.11
239+25	859.29	860.06	860.83
239+50.	860.01	860.78	861.55
239+75.	860.73	861.50	862.27

EAST BOUND U.S. 40

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
240+00.	861.45	862.22	862.99
240+25.	862.17	862.94	863.71
240+50.	862.89	863.66	864.43
240+75.	863.61	864.38	865.15
241+00.	864.33	865.10	865.87
241+25.	865.05	865.82	866.59
241+50.	865.77	866.54	867.31
241+75.	866.49	867.26	868.03
242+00.	867.21	867.98	868.75
242+25.	867.93	868.70	869.47
242+50.	868.65	869.42	870.19
242+75.	869.37	870.14	870.91
243+00.	870.09	870.86	871.63
243+25.	870.81	871.58	872.35
243+50.	871.53	872.30	873.07
243+75.	872.25	873.02	873.79
244+00.	872.97	873.74	874.51
244+25.	873.69	874.46	875.23
244+50.	874.41	875.18	875.95
244+75.	875.13	875.90	876.67
245+00.	875.85	876.62	877.39
245+25.	876.57	877.34	878.11
245+50.	877.29	878.06	878.83
245+75.	878.01	878.78	879.55
246+00.	878.73	879.50	880.27
246+25.	879.45	880.22	880.99
246+50.	880.17	880.94	881.71
246+75.	880.89	881.66	882.43
247+00.	881.61	882.38	883.15
247+25.	882.33	883.10	883.87
247+50.	883.05	883.82	884.59
247+75.	883.77	884.54	885.31
248+00.	884.51	885.26	886.01
248+25.	885.27	885.98	886.69
248+50.	886.05	886.70	887.35
248+75.	886.82	887.42	888.02
249+00.	887.60	888.14	888.68
249+25.	888.38	888.86	889.34
249+50.	889.16	889.58	890.00
249+75.	889.94	890.30	890.66
250+00.	890.71	891.02	891.33
250+25.	891.49	891.74	891.99
250+50.	892.25	892.46	892.65
250+75.	892.99	893.18	893.30
251+00.	893.71	893.90	893.96
251+25.	894.43	894.62	894.62
251+50.	895.15	895.34	895.28
251+75.	895.87	896.06	895.94

EAST BOUND U.S. 40

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
252+00.	896.59	896.78	896.61
252+25.	897.31	897.50	897.31
252+50.	898.03	898.22	898.03
252+75.	898.75	898.94	898.75
253+00.	899.47	899.66	899.47
253+25.	900.19	900.38	900.19
253+50.	900.91	901.10	900.91
253+75.	901.63	901.82	901.63
254+00.	902.35	902.54	902.35
254+25.	903.07	903.26	903.07
254+50.	903.79	903.98	903.79
254+75.	904.51	904.70	904.51
255+00.	905.25	905.42	905.23
255+25.	906.02	906.14	905.95
255+50.	906.80	906.86	906.67
255+75.	907.58	907.58	907.39
256+00.	908.36	908.30	908.11
256+25.	909.14	909.02	908.83
256+50.	909.93	909.74	909.53
256+75.	910.71	910.46	910.21
257+00.	911.50	911.18	910.86
257+25.	912.28	911.90	911.52
257+50.	913.07	912.62	912.17
257+75.	913.85	913.34	912.83
258+00.	914.62	914.06	913.49
258+25.	915.36	914.78	914.20
258+50.	916.08	915.50	914.92
258+75.	916.80	916.22	915.64
259+00.	917.52	916.94	916.36
259+25.	918.24	917.66	917.08
259+50.	918.96	918.38	917.80
259+75.	919.68	919.10	918.52
260+00.	920.40	919.82	919.24
260+25.	921.12	920.54	919.96
260+50.	921.84	921.26	920.68
260+75.	922.56	921.98	921.40
261+00.	923.28	922.70	922.12
261+25.	924.00	923.42	922.84
261+50.	924.72	924.14	923.56
261+75.	925.44	924.86	924.28
262+00.	926.16	925.58	925.00
262+25.	926.88	926.30	925.72
262+50.	927.60	927.02	926.44
262+75.	928.32	927.74	927.16
263+00.	929.04	928.46	927.88
263+25.	929.76	929.18	928.60
263+50.	930.48	929.90	929.32
263+75.	931.20	930.62	930.04

Normal Section

SUPERELEVATION TABLES

FED. HWY DIVISION	STATE	PROJECT	
2	OHIO		

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GUERNSEY COUNTY
GUE-40-8.93 PART I.

EAST BOUND U.S. 40

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
264+00.	931.92	931.34	930.76
264+25.	932.64	932.06	931.48
264+50.	933.36	932.78	932.20
264+75.	934.08	933.50	932.92
265+00.	934.80	934.22	933.64
265+25.	935.52	934.94	934.36
265+50.	936.24	935.66	935.08
265+75.	936.96	936.38	935.80
266+00.	937.68	937.10	936.52
266+25.	938.40	937.82	937.24
266+50.	939.12	938.54	937.96
266+75.	939.84	939.26	938.68
267+00.	940.56	939.98	939.40
267+25.	941.28	940.70	940.12
267+50.	942.00	941.42	940.84
267+75.	942.72	942.14	941.56
268+00.	943.44	942.86	942.28
268+25.	944.16	943.58	943.00
268+50.	944.88	944.30	943.72
268+75.	945.60	945.02	944.44
269+00.	946.32	945.74	945.16
269+25.	947.04	946.46	945.88
269+50.	947.76	947.18	946.60
269+75.	948.48	947.90	947.32
270+00.	949.20	948.62	948.04
270+25.	949.91	949.33	948.75
270+50.	950.62	950.04	949.46
270+75.	951.31	950.73	950.15
271+00.	951.99	951.41	950.83
271+25.	952.66	952.08	951.50
271+50.	953.31	952.73	952.15
271+75.	953.95	953.37	952.79
272+00.	954.57	953.99	953.41
272+25.	955.18	954.60	954.02
272+50.	955.78	955.20	954.62
272+75.	956.36	955.78	955.20
273+00.	956.91	956.35	955.79
273+25.	957.42	956.91	956.40
273+50.	957.90	957.45	957.00
273+75.	958.36	957.98	957.60
274+00.	958.81	958.49	958.17
274+25.	959.25	959.00	958.75

Station Equation

274+30.13	Back	=	272+67.75	Ahead
272+67.75	959.34		959.10	958.87
272+75.	959.46		959.24	959.02

EAST BOUND U.S. 40

Normal Section

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
273+00.	959.88	959.72	959.53
273+25.	960.28	960.19	960.00
273+50.	960.67	960.64	960.45
273+75.	961.05	961.08	960.89
274+00.	961.42	961.51	961.32
274+25.	961.79	961.92	961.73
274+50.	962.16	962.32	962.13
274+75.	962.52	962.71	962.52
275+00.	962.89	963.08	962.89
275+25.	963.25	963.44	963.25
275+50.	963.59	963.78	963.59
275+75.	963.93	964.12	963.93
276+00.	964.24	964.43	964.24
276+25.	964.55	964.74	964.55
276+50.	964.84	965.03	964.84
276+75.	965.12	965.31	965.12
277+00.	965.38	965.57	965.38
277+25.	965.63	965.82	965.63
277+50.	965.87	966.06	965.87
277+75.	966.09	966.28	966.09
278+00.	966.30	966.49	966.30
278+25.	966.49	966.68	966.49
278+50.	966.68	966.87	966.68
278+75.	966.84	967.03	966.84
279+00.	967.00	967.19	967.00

WEST BOUND U.S. 40

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
203+00.	822.92	823.11	822.92
203+25.	822.89	823.08	822.90

WEST BOUND U.S. 40

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
203+50.	822.85	823.04	822.88
203+75.	822.79	822.98	822.86
204+00.	822.72	822.91	822.85
204+25.	822.63	822.82	822.82
204+50.	822.54	822.78	822.79
204+75.	822.43	822.62	822.74
205+00.	822.27	822.49	822.68
205+25.	822.10	822.35	822.60
205+50.	821.88	822.20	822.52
205+75.	821.66	822.04	822.42
206+00.	821.41	821.86	822.31
206+25.	821.16	821.67	822.18
206+50.	820.92	821.46	822.02
206+75.	820.67	821.25	821.83
207+00.	820.44	821.02	821.60
207+25.	820.19	820.77	821.35
207+50.	819.94	820.52	821.10
207+75.	819.66	820.24	820.82
208+00.	819.38	819.96	820.54
208+25.	819.08	819.66	820.24
208+50.	818.77	819.35	819.93
208+75.	818.45	819.03	819.61
209+00.	818.11	818.69	819.27
209+25.	817.76	818.34	818.92
209+50.	817.40	817.98	818.56
209+75.	817.03	817.61	818.19
210+00.	816.66	817.24	817.82
210+25.	816.29	816.87	817.45
210+50.	815.92	816.50	817.08
210+75.	815.55	816.13	816.71
211+00.	815.18	815.76	816.34
211+25.	814.81	815.39	815.97
211+50.	814.44	815.02	815.60
211+75.	814.07	814.65	815.23
212+00.	813.70	814.28	814.86
212+25.	813.33	813.91	814.49
212+50.	812.96	813.54	814.12
212+75.	812.59	813.17	813.75
213+00.	812.22	812.80	813.38
213+25.	811.85	812.43	813.01
213+50.	811.48	812.06	812.64
213+75.	811.11	811.69	812.27
214+00.	810.72	811.32	811.91
214+25.	810.31	810.95	811.59
214+50.	809.87	810.58	811.28
214+75.	809.44	810.21	810.97
215+00.	809.00	809.84	810.65
215+25.	808.56	809.47	810.34

WEST BOUND U.S. 40

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
215+50.	808.15	809.10	810.03
215+75.	807.78	808.75	809.72
216+00.	807.46	808.43	809.40
216+25.	807.18	808.15	809.12
216+50.	806.93	807.90	808.87
216+75.	806.71	807.68	808.65
217+00.	806.53	807.50	808.47
217+25.	806.39	807.36	808.33
217+50.	806.28	807.25	808.22
217+75.	806.20	807.17	808.14
218+00.	806.16	807.13	808.10
218+25.	806.16	807.13	808.10
218+50.	806.19	807.16	808.13
218+75.	806.25	807.22	808.19
219+00.	806.35	807.32	808.29
219+25.	806.48	807.45	808.42
219+50.	806.65	807.62	808.59
219+75.	806.85	807.82	808.79
220+00.	807.09	808.06	809.03
220+25.	807.36	808.33	809.30
220+50.	807.67	808.64	809.61
220+75.	808.01	808.98	809.95
221+00.	808.38	809.35	810.32
221+25.	808.79	809.76	810.73
221+50.	809.24	810.21	811.18
221+75.	809.72	810.69	811.66
222+00.	810.23	811.20	812.17
222+25.	810.78	811.75	812.72
222+50.	811.37	812.34	813.31
222+75.	811.99	812.96	813.93
223+00.	812.64	813.61	814.58
223+25.	813.33	814.30	815.27
223+50.	814.05	815.02	815.99
223+75.	814.79	815.76	816.73
224+00.	815.53	816.50	817.47
224+25.	816.27	817.24	818.21
224+50.	817.01	817.98	818.95
224+75.	817.75	818.72	819.69
225+00.	818.49	819.46	820.43
225+25.	819.23	820.20	821.17
225+50.	819.97	820.94	821.91
225+75.	820.71	821.68	822.65
226+00.	821.47	822.42	823.37
226+25.	822.29	823.16	824.03
226+50.	823.12	823.90	824.68
226+75.	823.96	824.64	825.32
227+00.	824.80	825.38	825.96
227+25.	825.63	826.12	826.61

GUERNSEY COUNTY
GUE-40-8.93 PART I.

WEST BOUND U.S. 40

Normal Section

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
227+50.	826.47	826.86	827.25
227+75.	827.31	827.60	827.89
228+00.	828.13	828.34	828.53
228+25.	828.89	829.08	829.18
228+50.	829.63	829.82	829.83
228+75.	830.37	830.56	830.50
229+00.	831.11	831.30	831.18
229+25.	831.85	832.04	831.87
229+50.	832.59	832.78	832.59
229+75.	833.33	833.52	833.33
230+00.	834.07	834.26	834.07
230+25.	834.81	835.00	834.81
230+50.	835.55	835.74	835.55
230+75.	836.29	836.48	836.29
231+00.	837.03	837.22	837.03
231+25.	837.77	837.96	837.77
231+50.	838.51	838.70	838.51
231+75.	839.25	839.44	839.25
232+00.	839.99	840.18	839.99
232+25.	840.73	840.92	840.73
232+50.	841.47	841.66	841.47
232+75.	842.21	842.40	842.21
233+00.	842.95	843.14	842.95
233+25.	843.69	843.88	843.69
233+50.	844.43	844.62	844.43
233+75.	845.17	845.36	845.17
234+00.	845.91	846.10	845.91
234+25.	846.65	846.84	846.65
234+50.	847.39	847.58	847.39
234+75.	848.13	848.32	848.13
235+00.	848.87	849.06	848.87
235+25.	849.61	849.80	849.61
235+50.	850.35	850.54	850.35
235+75.	851.10	851.28	851.09
236+00.	851.90	852.02	851.83
236+25.	852.70	852.76	852.57
236+50.	853.50	853.50	853.31
236+75.	854.30	854.24	854.05
237+00.	855.10	854.98	854.79
237+25.	855.91	855.72	855.51
237+50.	856.71	856.46	856.21
237+75.	857.52	857.20	856.88

SUPERELEVATION TABLES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

18/250

GUERNSEY COUNTY
GUE-40-8.93 PART I
NORTH BOUND U.S. 21

WEST BOUND U.S. 40

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
238+00.	858.31	857.94	857.58
238+25.	859.06	858.68	858.30
238+50.	859.80	859.42	859.04
238+75.	860.54	860.16	859.78
239+00.	861.28	860.90	860.52
239+25.	862.02	861.64	861.26
239+50.	862.76	862.38	862.00
239+75.	863.50	863.12	862.74
240+00.	864.24	863.86	863.48
240+25.	864.98	864.60	864.22
240+50.	865.72	865.34	864.96
240+75.	866.46	866.08	865.70
241+00.	867.20	866.82	866.44
241+25.	867.94	867.56	867.18
241+50.	868.68	868.30	867.92
241+75.	869.42	869.04	868.66
242+00.	870.16	869.78	869.40
242+25.	870.90	870.52	870.14
242+50.	871.64	871.26	870.88
242+75.	872.38	872.00	871.62
243+00.	873.12	872.74	872.36
243+25.	873.86	873.48	873.10
243+50.	874.58	874.22	873.85
243+75.	875.27	874.96	874.65
244+00.	875.95	875.70	875.45
244+25.	876.64	876.44	876.23
244+50.	877.37	877.18	876.99
244+75.	878.11	877.92	877.73
245+00.	878.85	878.66	878.47
245+25.	879.59	879.40	879.21
245+50.	880.33	880.14	879.95
245+75.	881.07	880.88	880.69
246+00.	881.81	881.62	881.43
246+25.	882.53	882.36	882.17
246+50.	883.22	883.10	882.91
246+75.	883.90	883.84	883.65
247+00.	884.58	884.58	884.39
247+25.	885.26	885.32	885.13
247+50.	885.94	886.06	885.87
247+75.	886.63	886.80	886.61
248+00.	887.35	887.54	887.35
248+25.	888.09	888.28	888.09
248+50.	888.83	889.02	888.83
248+75.	889.57	889.76	889.57
249+00.	890.31	890.50	890.31
249+25.	891.05	891.24	891.05
249+50.	891.79	891.98	891.79
249+75.	892.53	892.72	892.53

Normal Section

WEST BOUND U.S. 40

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
250+00.	893.27	893.46	893.27
250+25.	894.01	894.20	894.01
250+50.	894.75	894.94	894.75
250+75.	895.49	895.68	895.49
251+00.	896.23	896.42	896.23
251+25.	896.97	897.16	896.97
251+50.	897.71	897.90	897.71
251+75.	898.45	898.64	898.45
252+00.	899.19	899.38	899.19
252+25.	899.93	900.12	899.93
252+50.	900.67	900.86	900.67
252+75.	901.41	901.60	901.41
253+00.	902.15	902.34	902.15
253+25.	902.89	903.08	902.89
253+50.	903.63	903.82	903.63
253+75.	904.37	904.56	904.37
254+00.	905.11	905.30	905.11
254+25.	905.85	906.04	905.85
254+50.	906.59	906.78	906.59
254+75.	907.33	907.52	907.33
255+00.	908.07	908.26	908.07
255+25.	908.81	909.00	908.81
255+50.	909.55	909.74	909.55
255+75.	910.29	910.48	910.29
256+00.	911.03	911.22	911.03
256+25.	911.77	911.96	911.77
256+50.	912.51	912.70	912.51
256+75.	913.25	913.44	913.25
257+00.	913.99	914.18	913.99
257+25.	914.73	914.92	914.73
257+50.	915.47	915.66	915.47
257+75.	916.21	916.40	916.21
258+00.	916.95	917.14	916.95
258+25.	917.69	917.88	917.69
258+50.	918.43	918.62	918.43
258+75.	919.17	919.36	919.17
259+00.	919.91	920.10	919.91
259+25.	920.65	920.84	920.65
259+50.	921.39	921.58	921.39
259+75.	922.13	922.32	922.13
260+00.	922.87	923.06	922.87
260+25.	923.61	923.80	923.61
260+50.	924.35	924.54	924.35
260+75.	925.09	925.28	925.09
261+00.	925.83	926.02	925.83
261+25.	926.57	926.76	926.57
261+50.	927.31	927.50	927.31
261+75.	928.05	928.24	928.05

Normal Section

WEST BOUND U.S. 40

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
262+00.	928.79	928.98	928.79
262+25.	929.53	929.72	929.53
262+50.	930.27	930.46	930.27
262+75.	931.01	931.20	931.01
263+00.	931.75	931.94	931.75
263+25.	932.49	932.68	932.49
263+50.	933.23	933.42	933.23
263+75.	933.97	934.16	933.97
264+00.	934.71	934.90	934.71

Normal Section

NORTH BOUND U.S. 21

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
400+25.	803.13	803 32	803.13
400+50.	803.07	803.26	803.07
400+75.	803.01	803.20	803.01
401+00.	802.95	803.14	802.95
401+25.	802.89	803.08	802.91
401+50.	802.83	803.02	802.90
401+75.	802.77	802.96	802.90
402+00.	802.71	802.90	802.90
402+25.	802.65	802.84	802.90
402+50.	802.59	802.78	802.90
402+75.	802.51	802.72	802.91
403+00.	802.41	802.66	802.91
403+25.	802.28	802.60	802.92
403+50.	802.16	802.54	802.92
403+75.	802.03	802.48	802.93
404+00.	801.91	802.42	802.93
404+25.	801.80	802.36	802.92
404+50.	801.72	802.30	802.88
404+75.	801.66	802.24	802.82
405+00.	801.60	802.18	802.76
405+25.	801.55	802.13	802.71
405+50.	801.53	802.11	802.69
405+75.	801.53	802.11	802.69
406+00.	801.56	802.14	802.72
406+25.	801.61	802.19	802.77
406+50.	801.69	802.27	802.85
406+75.	801.79	802.37	802.95
407+00.	801.92	802.50	803.08
407+25.	802.07	802.65	803.23
407+50.	802.25	802.83	803.41
407+75.	802.45	803.03	803.61
408+00.	802.68	803.26	803.84
408+25.	802.93	803.51	804.09
408+50.	803.21	803.79	804.37
408+75.	803.51	804.09	804.67
409+00.	803.84	804.42	805.00
409+25.	804.19	804.77	805.35
409+50.	804.57	805.15	805.73
409+75.	804.97	805.55	806.13
410+00.	805.40	805.98	806.56
410+25.	805.85	806.43	807.01
410+50.	806.33	806.91	807.49
410+75.	806.83	807.41	807.99
411+00.	807.36	807.94	808.52
411+25.	807.91	808.49	809.07
411+50.	808.49	809.07	809.65
411+75.	809.09	809.67	810.25
412+00.	809.72	810.30	810.88
412+25.	810.37	810.95	811.53

NORTH BOUND U.S. 21

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
412+50.	811.05	811.63	812.21
412+75.	811.75	812.33	812.91
413+00.	812.48	813.06	813.64
413+25.	813.22	813.80	814.38
413+50.	813.96	814.54	815.12
413+75.	814.70	815.28	815.86
414+00.	815.46	816.02	816.58
414+25.	816.25	816.76	817.27
414+50.	817.05	817.50	817.95
414+75.	817.86	818.24	818.62
415+00.	818.66	818.98	819.30
415+25.	819.47	819.72	819.97
415+50.	820.25	820.46	820.65
415+75.	821.01	821.20	821.32
416+00.	821.75	821.94	822.00
416+25.	822.49	822.68	822.68
416+50.	823.23	823.42	823.36
416+75.	823.97	824.16	824.04
417+00.	824.71	824.90	824.73
417+25.	825.45	825.64	825.45
417+50.	826.19	826.38	826.19
417+75.	826.93	827.12	826.93
418+00.	827.67	827.86	827.67
418+25.	828.41	828.60	828.41
418+50.	829.15	829.34	829.15
418+75.	829.89	830.08	829.89
419+00.	830.63	830.82	830.63
419+25.	831.37	831.56	831.37
419+50.	832.11	832.30	832.11
419+75.	832.85	833.04	832.85
420+00.	833.59	833.78	833.59
420+25.	834.33	834.52	834.33
420+50.	835.07	835.26	835.07
420+75.	835.81	836.00	835.81
421+00.	836.55	836.74	836.55
421+25.	837.29	837.48	837.29
421+50.	838.03	838.22	838.03
421+75.	838.77	838.96	838.77
422+00.	839.51	839.70	839.51
422+25.	840.25	840.44	840.25
422+50.	840.99	841.18	840.99
422+75.	841.73	841.92	841.73
423+00.	842.47	842.66	842.47
423+25.	843.21	843.40	843.21
423+50.	843.94	844.13	843.94
423+75.	844.66	844.85	844.66
424+00.	845.37	845.56	845.37
424+25.	846.07	846.26	846.07
424+50.	846.75	846.94	846.75

WEST BOUND U.S. 40 & NORTH BOUND U.S. 21 SUPERELEVATION TABLES

SUPERELEVATION TABLES

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

19/250

GUERNSEY COUNTY
GUE-40-8.93 PART 1.

NORTH BOUND U.S. 21

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
424+75.	847.42	847.61	847.42
425+00.	848.07	848.26	848.07
425+25.	848.72	848.91	848.72
425+50.	849.35	849.54	849.35
425+75.	849.96	850.15	849.96
426+00.	850.57	850.76	850.57
426+25.	851.16	851.35	851.16
426+50.	851.74	851.93	851.74
426+75.	852.30	852.49	852.30
427+00.	852.86	853.05	852.86
427+25.	853.40	853.59	853.40
427+50.	853.92	854.11	853.92
427+75.	854.44	854.63	854.44
428+00.	854.94	855.13	854.94
428+25.	855.43	855.62	855.43
428+50.	855.90	856.09	855.90
428+75.	856.37	856.56	856.37
429+00.	856.82	857.01	856.82
429+25.	857.25	857.44	857.25
429+50.	857.68	857.87	857.68
429+75.	858.09	858.28	858.09
430+00.	858.48	858.67	858.48
430+25.	858.87	859.06	858.87
430+50.	859.24	859.43	859.24
430+75.	859.60	859.79	859.60
431+00.	859.95	860.14	859.95
431+25.	860.28	860.47	860.28
431+50.	860.60	860.79	860.60
431+75.	860.91	861.10	860.91
432+00.	861.20	861.39	861.20
432+25.	861.49	861.68	861.49
432+50.	861.75	861.94	861.75
432+75.	862.01	862.20	862.01
433+00.	862.25	862.44	862.25
433+25.	862.48	862.67	862.48
433+50.	862.70	862.89	862.70
433+75.	862.91	863.10	862.91
434+00.	863.10	863.29	863.10
434+25.	863.28	863.47	863.28
434+50.	863.44	863.63	863.44
434+75.	863.59	863.78	863.59
435+00.	863.73	863.92	863.73
435+25.	863.86	864.05	863.86
435+50.	863.98	864.17	863.98
435+75.	864.08	864.27	864.08
436+00.	864.16	864.35	864.16
436+25.	864.24	864.43	864.24
436+50.	864.30	864.49	864.30
436+75.	864.35	864.54	864.35

Normal Section

NORTH BOUND U.S. 21

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
437+00.	864.39	864.58	864.39
437+25.	864.41	864.60	864.41
437+50.	864.42	864.61	864.42
437+75.	864.42	864.61	864.42
438+00.	864.41	864.60	864.41
438+25.	864.38	864.57	864.38
438+50.	864.34	864.53	864.34
438+75.	864.28	864.47	864.28
439+00.	864.22	864.41	864.22
439+25.	864.14	864.33	864.14
439+50.	864.04	864.23	864.04
439+75.	863.94	864.13	863.94
440+00.	863.82	864.01	863.82
440+25.	863.69	863.88	863.69
440+50.	863.54	863.73	863.54
440+75.	863.39	863.58	863.39
441+00.	863.22	863.41	863.22
441+25.	863.04	863.23	863.04
441+50.	862.84	863.03	862.84
441+75.	862.63	862.82	862.63
442+00.	862.41	862.60	862.41
442+25.	862.17	862.36	862.17
442+50.	861.93	862.12	861.93
442+75.	861.67	861.86	861.67
443+00.	861.39	861.58	861.39
443+25.	861.11	861.30	861.11
443+50.	860.81	861.00	860.81
443+75.	860.50	860.69	860.50
444+00.	860.17	860.36	860.17
444+25.	859.83	860.02	859.83
444+50.	859.48	859.67	859.48
444+75.	859.12	859.31	859.12
445+00.	858.75	858.94	858.75
445+25.	858.38	858.57	858.38
445+50.	858.01	858.20	858.01
445+75.	857.64	857.83	857.64
446+00.	857.27	857.46	857.27
446+25.	856.90	857.09	856.90
446+50.	856.53	856.72	856.53
446+75.	856.18	856.35	856.16
447+00.	855.86	855.98	855.79
447+25.	855.55	855.61	855.42
447+50.	855.25	855.24	855.05
447+75.	854.97	854.87	854.68
448+00.	854.70	854.50	854.28
448+25.	854.42	854.13	853.84
448+50.	854.15	853.76	853.37

Normal Section

NORTH BOUND U.S. 21

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
448+75.	853.88	853.39	852.90
449+00.	853.60	853.02	852.44
449+25.	853.33	852.65	851.97
449+50.	853.06	852.28	851.50
449+75.	852.79	851.91	851.03
450+00.	852.49	851.54	850.59
450+25.	852.14	851.17	850.20
450+50.	851.77	850.80	849.83
450+75.	851.40	850.43	849.46
451+00.	851.03	850.06	849.09
451+25.	850.66	849.69	848.72
451+50.	850.29	849.32	848.35
451+75.	849.92	848.95	847.98
452+00.	849.55	848.58	847.61
452+25.	849.18	848.21	847.24
452+50.	848.81	847.84	846.87
452+75.	848.44	847.47	846.50
453+00.	848.07	847.10	846.13
453+25.	847.70	846.73	845.76
453+50.	847.33	846.36	845.39
453+75.	846.96	845.99	845.02
454+00.	846.59	845.62	844.65
454+25.	846.22	845.25	844.28
454+50.	845.85	844.88	843.91
454+75.	845.48	844.51	843.54
455+00.	845.11	844.14	843.17
455+25.	844.74	843.77	842.80
455+50.	844.37	843.40	842.43
455+75.	844.00	843.03	842.06
456+00.	843.63	842.66	841.69
456+25.	843.26	842.29	841.32
456+50.	842.89	841.92	840.95
456+75.	842.52	841.55	840.58
457+00.	842.15	841.18	840.21
457+25.	841.78	840.81	839.84
457+50.	841.41	840.44	839.47
457+75.	841.04	840.07	839.10
458+00.	840.67	839.70	838.73
458+25.	840.30	839.33	838.36
458+50.	839.93	838.96	837.99
458+75.	839.56	838.59	837.62
459+00.	839.19	838.22	837.25
459+25.	838.82	837.85	836.88
459+50.	838.45	837.48	836.51
459+75.	838.08	837.11	836.14
460+00.	837.71	836.74	835.77
460+25.	837.34	836.37	835.40
460+50.	836.97	836.00	835.03
460+75.	836.60	835.63	834.66

NORTH BOUND U.S. 21

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
461+00.	836.23	835.26	834.29
461+25.	835.86	834.89	833.92
461+50.	835.49	834.52	833.55
461+75.	835.12	834.15	833.18
462+00.	834.75	833.78	832.81
462+25.	834.39	833.42	832.45
462+50.	834.05	833.08	832.11
462+75.	833.73	832.76	831.79
463+00.	833.42	832.45	831.48
463+25.	833.14	832.17	831.20
463+50.	832.88	831.91	830.94
463+75.	832.63	831.66	830.69
464+00.	832.41	831.44	830.47
464+25.	832.20	831.23	830.26
464+50.	832.01	831.04	830.07
464+75.	831.84	830.87	829.90
465+00.	831.69	830.72	829.75
465+25.	831.56	830.59	829.62
465+50.	831.45	830.48	829.51
465+75.	831.36	830.39	829.42
466+00.	831.29	830.32	829.35
466+25.	831.24	830.27	829.30
466+50.	831.20	830.23	829.26
466+75.	831.19	830.22	829.25
467+00.	831.20	830.23	829.26
467+25.	831.22	830.25	829.28
467+50.	831.26	830.29	829.32
467+75.	831.30	830.35	829.38
468+00.	831.34	830.44	829.50
468+25.	831.39	830.54	829.67
468+50.	831.44	830.66	829.88
468+75.	831.48	830.80	830.12
469+00.	831.54	830.96	830.38
469+25.	831.62	831.13	830.64
469+50.	831.72	831.33	830.94
469+75.	831.84	831.55	831.26
470+00.	831.98	831.78	831.57
470+25.	832.13	832.03	831.84
470+50.	832.29	832.27	832.08

Station Equation

470+50.60	Back =	473+01.98	Ahead
473+01.98	832.30	832.28	832.09
473+25.	832.45	832.51	832.32
473+50.	832.63	832.75	832.56
473+75.	832.82	833.00	832.81
474+00.	833.05	833.24	833.05
474+25.	833.30	833.49	833.30
474+50.	833.54	833.73	833.54
474+75.	833.79	833.98	833.79

Normal Section

NORTH BOUND U.S. 21

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
475+00.	834.03	834.22	834.03
475+25.	834.28	834.47	834.28
475+50.	834.52	834.71	834.52
475+75.	834.77	834.96	834.77
476+00.	835.01	835.20	835.01
476+25.	835.26	835.45	835.26
476+50.	835.50	835.69	835.50
476+75.	835.75	835.94	835.75
477+00.	835.99	836.18	835.99

Normal Section

NORTHBOUND U.S. 21 SUPERELEVATION TABLE

SUPERELEVATION TABLES

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

20/250

GUERNSEY COUNTY
GUE-40-8.93 PART I
SOUTH BOUND U.S. 21

SOUTH BOUND U.S. 21

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
410+00.	803.46	804.04	804.62
410+25.	803.86	804.44	805.02
410+50.	804.28	804.86	805.44
410+75.	804.74	805.32	805.90
411+00.	805.22	805.80	806.38
411+25.	805.74	806.32	806.90
411+50.	806.29	806.87	807.45
411+75.	806.87	807.45	808.03
412+00.	807.48	808.06	808.64
412+25.	808.13	808.71	809.29
412+50.	808.80	809.38	809.96
412+75.	809.51	810.09	810.67
413+00.	810.24	810.82	811.40
413+25.	811.01	811.59	812.17
413+50.	811.81	812.39	812.97
413+75.	812.64	813.22	813.80
414+00.	813.50	814.08	814.66
414+25.	814.40	814.98	815.56
414+50.	815.32	815.90	816.48
414+75.	816.26	816.84	817.42
415+00.	817.20	817.78	818.36
415+25.	818.14	818.72	819.30
415+50.	819.08	819.66	820.24
415+75.	820.00	820.60	821.20
416+00.	820.90	821.54	822.18
416+25.	821.78	822.48	823.18
416+50.	822.67	823.42	824.17
416+75.	823.59	824.36	825.13
417+00.	824.53	825.30	826.07
417+25.	825.47	826.24	827.01
417+50.	826.41	827.18	827.95
417+75.	827.35	828.12	828.89
418+00.	828.29	829.06	829.83
418+25.	829.23	830.00	830.77
418+50.	830.17	830.94	831.71
418+75.	831.11	831.88	832.65
419+00.	832.05	832.82	833.59
419+25.	832.99	833.76	834.53
419+50.	833.93	834.70	835.47
419+75.	834.87	835.64	836.41
420+00.	835.81	836.58	837.35
420+25.	836.75	837.52	838.29
420+50.	837.69	838.46	839.23
420+75.	838.63	839.40	840.17
421+00.	839.57	840.34	841.11
421+25.	840.51	841.28	842.05
421+50.	841.45	842.22	842.99
421+75.	842.39	843.16	843.93

SOUTH BOUND U.S. 21

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
422+00.	843.33	844.10	844.87
422+25.	844.27	845.04	845.81
422+50.	845.21	845.98	846.75
422+75.	846.15	846.92	847.69
423+00.	847.09	847.86	848.63
423+25.	848.03	848.80	849.57
423+50.	848.97	849.74	850.51
423+75.	849.91	850.68	851.45
424+00.	850.85	851.62	852.39
424+25.	851.79	852.56	853.33
424+50.	852.71	853.48	854.25
424+75.	853.63	854.40	855.17
425+00.	854.52	855.29	856.06
425+25.	855.41	856.18	856.95
425+50.	856.28	857.05	857.82
425+75.	857.14	857.91	858.68
426+00.	857.98	858.75	859.52
426+25.	858.81	859.58	860.35
426+50.	859.62	860.39	861.16
426+75.	860.42	861.19	861.96
427+00.	861.21	861.98	862.75
427+25.	861.98	862.75	863.52
427+50.	862.76	863.51	864.25
427+75.	863.59	864.26	864.93
428+00.	864.42	864.99	865.56
428+25.	865.23	865.71	866.19
428+50.	866.03	866.41	866.79
428+75.	866.82	867.10	867.38
429+00.	867.56	867.77	867.96
429+25.	868.25	868.44	868.53
429+50.	868.89	869.08	869.10
429+75.	869.53	869.72	869.66
430+00.	870.15	870.34	870.22
430+25.	870.75	870.94	870.77
430+50.	871.35	871.54	871.35
430+75.	871.92	872.11	871.92
431+00.	872.49	872.68	872.49
431+25.	873.04	873.23	873.04
431+50.	873.58	873.77	873.58
431+75.	874.10	874.29	874.10
432+00.	874.61	874.80	874.61
432+25.	875.10	875.29	875.10
432+50.	875.58	875.77	875.58
432+75.	876.05	876.24	876.05
433+00.	876.50	876.69	876.50
433+25.	876.94	877.13	876.94
433+50.	877.37	877.56	877.37
433+75.	877.78	877.97	877.78

Normal Section

SOUTH BOUND U.S. 21

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
434+00.	878.18	878.37	878.18
434+25.	878.56	878.75	878.56
434+50.	878.94	879.12	878.93
434+75.	879.32	879.47	879.28
435+00	879.70	879.82	879.63
435+25.	880.08	880.14	879.95
435+50.	880.46	880.46	880.27
435+75	880.82	880.76	880.57
436+00.	881.17	881.04	880.85
436+25.	881.51	881.32	881.10
436+50	881.85	881.57	881.29
436+75.	882.19	881.82	881.45
437+00.	882.51	882.05	881.59
437+25.	882.82	882.27	881.72
437+50.	883.11	882.47	881.83
437+75.	883.39	882.66	881.93
438+00.	883.65	882.83	882.01
438+25.	883.90	882.99	882.09
438+50.	884.11	883.14	882.18
438+75.	884.27	883.27	882.28
439+00.	884.39	883.39	882.39
439+25.	884.50	883.50	882.50
439+50	884.59	883.59	882.59
439+75.	884.67	883.67	882.67
440+00	884.73	883.73	882.73
440+25.	884.78	883.78	882.78
440+50	884.81	883.81	882.81
440+75.	884.84	883.84	882.84
441+00	884.84	883.84	882.84
441+25.	884.84	883.84	882.84
441+50.	884.82	883.82	882.82
441+75.	884.78	883.78	882.78
442+00.	884.74	883.74	882.74
442+25.	884.67	883.67	882.67
442+50.	884.60	883.60	882.60
442+75.	884.51	883.51	882.51
443+00	884.41	883.41	882.41
443+25.	884.29	883.29	882.29
443+50.	884.16	883.16	882.16
443+75.	884.01	883.01	882.01
444+00.	883.85	882.85	881.85
444+25.	883.68	882.68	881.68
444+50.	883.49	882.49	881.49
444+75.	883.29	882.29	881.29
445+00	883.08	882.08	881.08
445+25.	882.85	881.85	880.85
445+50.	882.61	881.61	880.61
445+75	882.35	881.35	880.35

SOUTH BOUND U.S. 21

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
446+00.	882.08	881.08	880.08
446+25.	881.79	880.79	879.79
446+50.	881.50	880.50	879.50
446+75.	881.18	880.18	879.18
447+00.	880.86	879.86	878.86
447+25.	880.52	879.52	878.52
447+50.	880.16	879.16	878.16
447+75.	879.80	878.80	877.80
448+00.	879.41	878.41	877.41
448+25.	879.02	878.02	877.02
448+50.	878.61	877.61	876.61
448+75.	878.19	877.19	876.19
449+00.	877.75	876.75	875.75
449+25.	877.30	876.30	875.30
449+50.	876.83	875.83	874.83
449+75.	876.35	875.35	874.35
450+00.	875.86	874.86	873.86
450+25.	875.35	874.35	873.35
450+50.	874.83	873.83	872.83
450+75.	874.30	873.30	872.30
451+00.	873.75	872.75	871.75
451+25.	873.19	872.19	871.19
451+50.	872.61	871.61	870.61
451+75.	872.02	871.02	870.02
452+00.	871.41	870.41	869.41
452+25.	870.80	869.80	868.80
452+50.	870.16	869.16	868.16
452+75.	869.52	868.52	867.52
453+00.	868.86	867.86	866.86
453+25.	868.20	867.20	866.20
453+50.	867.54	866.54	865.54
453+75.	866.88	865.88	864.88
454+00.	866.22	865.22	864.22
454+25.	865.56	864.56	863.56
454+50.	864.90	863.90	862.90
454+75.	864.24	863.24	862.24
455+00.	863.58	862.58	861.58
455+25.	862.92	861.92	860.92
455+50.	862.26	861.26	860.26
455+75.	861.60	860.60	859.60
456+00.	860.94	859.94	858.94
456+25.	860.28	859.28	858.28
456+50.	859.62	858.62	857.62
456+75.	858.96	857.96	856.96
457+00.	858.30	857.30	856.30
457+25.	857.64	856.64	855.64
457+50.	856.98	855.98	854.98
457+75.	856.32	855.32	854.32

SOUTH BOUND U.S. 21

STATION	LEFT EDGE	PROFILE GRADE	RIGHT EDGE
458+00.	855.66	854.66	853.66
458+25.	855.00	854.00	853.00
458+50.	854.34	853.34	852.34
458+75.	853.68	852.68	851.68
459+00.	853.02	852.02	851.02
459+25.	852.36	851.36	850.36
459+50.	851.70	850.70	849.70
459+75.	851.04	850.04	849.04
460+00.	850.38	849.38	848.38
460+25.	849.72	848.72	847.72
460+50.	849.06	848.06	847.06
460+75.	848.40	847.40	846.40
461+00.	847.74	846.74	845.74
461+25.	847.06	846.08	845.10
461+50.	846.33	845.42	844.51
461+75.	845.58	844.76	843.94
462+00.	844.83	844.10	843.37
462+25.	844.08	843.44	842.80
462+50.	843.33	842.78	842.23
462+75.	842.58	842.12	841.66
463+00.	841.83	841.46	841.09
463+25.	841.08	840.80	840.52
463+50.	840.34	840.14	839.93
463+75.	839.60	839.48	839.29
464+00.	838.88	838.82	838.63
464+25.	838.16	838.16	837.97
464+50.	837.44	837.50	837.31
464+75.	836.72	836.84	836.65
465+00.	836.00	836.18	835.99
465+25.	835.33	835.52	835.33

SUPERELEVATION TABLES

FED RD DIVISION	STATE	PROJECT	
2	OHIO		

21/250

GUERNSEY COUNTY
GUE-40-8.93 PART I.
PART I

RAMP "A"

STATION	LEFT EDGE	PROFILE GRADE
16+75.	849.93	849.53
17+00.	850.48	850.08
17+25.	851.00	850.60
17+50.	851.47	851.07
17+75.	851.90	851.50
18+00.	852.28	851.88
18+25.	852.63	852.23
18+50.	852.90	852.53
18+75.	853.11	852.78
19+00.	853.27	853.00
19+25.	853.42	853.17
19+50.	853.55	853.30
19+75.	853.63	853.38
20+00.	853.68	853.43
20+25.	853.68	853.43
20+50.	853.63	853.38
20+75.	853.55	853.30
21+00.	853.42	853.17
21+25.	853.25	853.00
21+50.	853.03	852.78
21+75.	852.78	852.53
22+00.	852.48	852.23
22+25.	852.13	851.88
22+50.	851.75	851.50
22+75.	851.32	851.07
23+00.	850.85	850.60
23+25.	850.33	850.08
23+50.	849.78	849.53
23+75.	849.18	848.93
24+00.	848.53	848.28
24+25.	847.85	847.60
24+50.	847.12	846.87
24+75.	846.35	846.10
25+00.	845.53	845.28
25+25.	844.68	844.43
25+50.	843.78	843.53
25+75.	842.83	842.58
26+00.	841.85	841.60
26+25.	840.82	840.57
26+50.	839.77	839.52
26+75.	838.72	838.47
27+00.	837.67	837.42
27+25.	836.62	836.37
27+50.	835.57	835.32
27+75.	834.55	834.27

RAMP "A"

STATION	LEFT EDGE	PROFILE GRADE
28+00.	833.59	833.22
28+25.	832.66	832.17
28+50.	831.73	831.12
28+75.	830.80	830.07
29+00.	829.87	829.02
29+25.	828.94	827.97
29+50.	828.01	826.92
29+75.	827.08	825.87
30+00.	826.12	824.82
30+25.	825.10	823.77
30+50.	824.05	822.72
30+75.	823.00	821.67
31+00.	821.95	820.62
31+25.	820.90	819.57
31+50.	819.85	818.52
31+75.	818.80	817.47
32+00.	817.75	816.42
32+25.	816.70	815.37
32+50.	815.65	814.32
32+75.	814.60	813.27
33+00.	813.55	812.22
33+25.	812.50	811.17
33+50.	811.49	810.16
33+75.	810.58	809.25
34+00.	809.75	808.42
34+25.	809.00	807.67
34+50.	808.35	807.02

RAMP "B"

STATION	LEFT EDGE	PROFILE GRADE
16+00.	834.40	833.07
16+25.	834.30	832.97
16+50.	834.33	833.00
16+75.	834.50	833.17
17+00.	834.81	833.48
17+25.	835.26	833.93
17+50.	835.84	834.51
17+75.	836.55	835.22
18+00.	837.41	836.08
18+25.	838.40	837.07
18+50.	839.46	838.13
18+75.	840.52	839.19
19+00.	841.58	840.25
19+25.	842.64	841.31
19+50.	843.70	842.37
19+75.	844.76	843.43
20+00.	845.82	844.49
20+25.	846.88	845.55
20+50.	847.94	846.61
20+75.	849.00	847.67
21+00.	850.06	848.73
21+25.	851.12	849.79
21+50.	852.18	850.85
21+75.	853.24	851.91
22+00.	854.30	852.97
22+25.	855.36	854.03
22+50.	856.42	855.09
22+75.	857.48	856.15
23+00.	858.54	857.21
23+25.	859.60	858.27
23+50.	860.66	859.33
23+75.	861.72	860.39
24+00.	862.73	861.45

RAMP "C"

STATION	LEFT EDGE	PROFILE GRADE
12+25.	895.07	894.29
12+50.	893.84	893.06
12+75.	892.61	891.83
13+00.	891.38	890.60
13+25.	890.15	889.37
13+50.	888.92	888.14
13+75.	887.69	886.91
14+00.	886.50	885.68
14+25.	885.37	884.45
14+50.	884.28	883.22
14+75.	883.18	881.99
15+00.	882.06	880.76
15+25.	880.86	879.53
15+50.	879.63	878.30
15+75.	878.40	877.07
16+00.	877.17	875.84
16+25.	875.94	874.61
16+50.	874.71	873.38
16+75.	873.48	872.15
17+00.	872.25	870.92
17+25.	871.02	869.69
17+50.	869.79	868.46
17+75.	868.56	867.23
18+00.	867.33	866.00
18+25.	866.10	864.77
18+50.	864.87	863.54
18+75.	863.64	862.31
19+00.	862.41	861.08
19+25.	861.18	859.85
19+50.	859.95	858.62
19+75.	858.72	857.39
20+00.	857.49	856.16
20+25.	856.26	854.93
20+50.	855.03	853.70
20+75.	853.80	852.47
21+00.	852.57	851.24
21+25.	851.38	850.05
21+50.	850.26	848.93
21+75.	849.23	847.90
22+00.	848.27	846.94
22+25.	847.39	846.06

RAMP "D"

STATION	PROFILE GRADE	RIGHT EDGE
12+00.	862.86	863.95
12+25.	862.86	864.07
12+50.	862.86	864.15
12+75.	862.86	864.19
13+00.	862.86	864.19
13+25.	862.86	864.19
13+50.	862.86	864.19
13+75.	862.86	864.19
14+00.	862.86	864.19
14+25.	862.86	864.19
14+50.	862.86	864.19
14+75.	862.86	864.19
15+00.	862.86	864.19
15+25.	862.86	864.19
15+50.	862.86	864.19
15+75.	862.86	864.19
16+00.	862.86	864.19
16+25.	862.86	864.19
16+50.	862.86	864.19
16+75.	862.86	864.19
17+00.	862.83	864.16
17+25.	862.73	864.06
17+50.	862.57	863.90

RAMPS A, B, C, & D SUPERELEVATION TABLES

SUPERELEVATION TABLES

FED. HWY. DIVISION	STATE	PROJECT	
2	OHIO		

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GUERNSEY COUNTY
GUE-40-8.93 PART 1.
PART 1

RAMP "E"

STATION	LEFT EDGE	PROFILE GRADE
7+25.	856.16	854.95
7+50.	857.31	856.01
7+75.	858.40	857.07
8+00.	859.46	858.13
8+25.	860.52	859.19
8+50.	861.58	860.25
8+75.	862.64	861.31
9+00.	863.70	862.37
9+25.	864.76	863.43
9+50.	865.79	864.49
9+75.	866.76	865.55
10+00.	867.70	866.61
10+25.	868.64	867.67
10+50.	869.58	868.73
10+75.	870.52	869.79
11+00.	871.46	870.85
11+25.	872.40	871.91
11+50.	873.34	872.97
11+75.	874.31	874.03
12+00.	875.34	875.09
12+25.	876.40	876.15
12+50.	877.46	877.21
12+75.	878.52	878.27
13+00.	879.58	879.33
13+25.	880.64	880.39
13+50.	881.70	881.45
13+75.	882.76	882.51
14+00.	883.82	883.57
14+25.	884.88	884.63
14+50.	885.94	885.69
14+75.	887.00	886.75
15+00.	888.06	887.81
15+25.	889.12	888.87
15+50.	890.18	889.93
15+75.	891.27	890.99
16+00.	892.42	892.05
16+25.	893.60	893.11
16+50.	894.78	894.17
16+75.	895.96	895.23
17+00.	897.14	896.29
17+25.	898.32	897.35
17+50.	899.50	898.41
17+75.	900.68	899.47
18+00.	901.83	900.53
18+25.	902.92	901.59
18+50.	903.98	902.65
18+75.	905.04	903.71

RAMP "E"

STATION	LEFT EDGE	PROFILE GRADE
19+00.	906.10	904.77
19+25.	907.16	905.83
19+50.	908.22	906.89
19+75.	909.28	907.95
20+00.	910.34	909.01
20+25.	911.40	910.07
20+50.	912.46	911.13
20+75.	913.52	912.19
21+00.	914.58	913.25
21+25.	915.64	914.31
21+50.	916.70	915.37
21+75.	917.76	916.43
22+00.	918.81	917.48
22+25.	919.83	918.50

RAMP "F"

STATION	LEFT EDGE	PROFILE GRADE
15+00.	898.63	897.30
15+25.	898.12	896.79
15+50.	897.50	896.17
15+75.	896.79	895.46
16+00.	895.98	894.65
16+25.	895.08	893.75
16+50.	894.08	892.75
16+75.	892.98	891.65
17+00.	891.79	890.46
17+25.	890.55	889.22
17+50.	889.31	887.98
17+75.	888.07	886.74
18+00.	886.83	885.50
18+25.	885.59	884.26
18+50.	884.35	883.02
18+75.	883.11	881.78
19+00.	881.87	880.54
19+25.	880.63	879.30
19+50.	879.39	878.06
19+75.	878.15	876.82
20+00.	876.91	875.58
20+25.	875.67	874.34
20+50.	874.43	873.10
20+75.	873.19	871.86
21+00.	871.95	870.62
21+25.	870.71	869.38
21+50.	869.47	868.14
21+75.	868.29	866.96
22+00.	867.24	865.91
22+25.	866.32	864.99
22+50.	865.52	864.19
22+75.	864.82	863.52
23+00.	864.22	862.98
23+25.	863.71	862.56
23+50.	863.33	862.27
23+75.	863.08	862.11
24+00.	862.95	862.07
24+25.	862.95	862.16
24+50.	863.08	862.38

RAMP "G"

STATION	LEFT EDGE	PROFILE GRADE
14+25.	847.70	847.69
14+50.	848.71	848.57
14+75.	849.75	849.48
15+00.	850.81	850.44
15+25.	851.82	851.42
15+50.	852.80	852.40
15+75.	853.78	853.38
16+00.	854.76	854.36
16+25.	855.74	855.34
16+50.	856.72	856.32
16+75.	857.70	857.30
17+00.	858.68	858.28
17+25.	859.66	859.26
17+50.	860.64	860.24
17+75.	861.62	861.22
18+00.	862.60	862.20
18+25.	863.58	863.18
18+50.	864.56	864.16
18+75.	865.54	865.14
19+00.	866.52	866.12
19+25.	867.50	867.10
19+50.	868.48	868.08
19+75.	869.46	869.06
20+00.	870.44	870.04
20+25.	871.42	871.02
20+50.	872.40	872.00
20+75.	873.38	872.98
21+00.	874.32	873.92
21+25.	875.20	874.80
21+50.	875.99	875.59
21+75.	876.72	876.32
22+00.	877.38	876.98
22+25.	877.96	877.56

RAMP "H"

STATION	PROFILE GRADE	RIGHT EDGE
8+50.	874.40	875.73
8+75.	874.34	875.67
9+00.	874.28	875.61
9+25.	874.22	875.55
9+50.	874.16	875.49
9+75.	874.10	875.43
10+00.	874.04	875.37
10+25.	873.98	875.31
10+50.	873.92	875.25
10+75.	873.86	875.19
11+00.	873.80	875.13
11+25.	873.74	875.07
11+50.	873.68	875.01
11+75.	873.62	874.95
12+00.	873.56	874.89
12+25.	873.50	874.83
12+50.	873.44	874.77
12+75.	873.38	874.71
13+00.	873.32	874.65
13+25.	873.26	874.59
13+50.	873.20	874.53
13+75.	873.14	874.47
14+00.	873.12	874.45
14+25.	873.19	874.52
14+50.	873.35	874.63

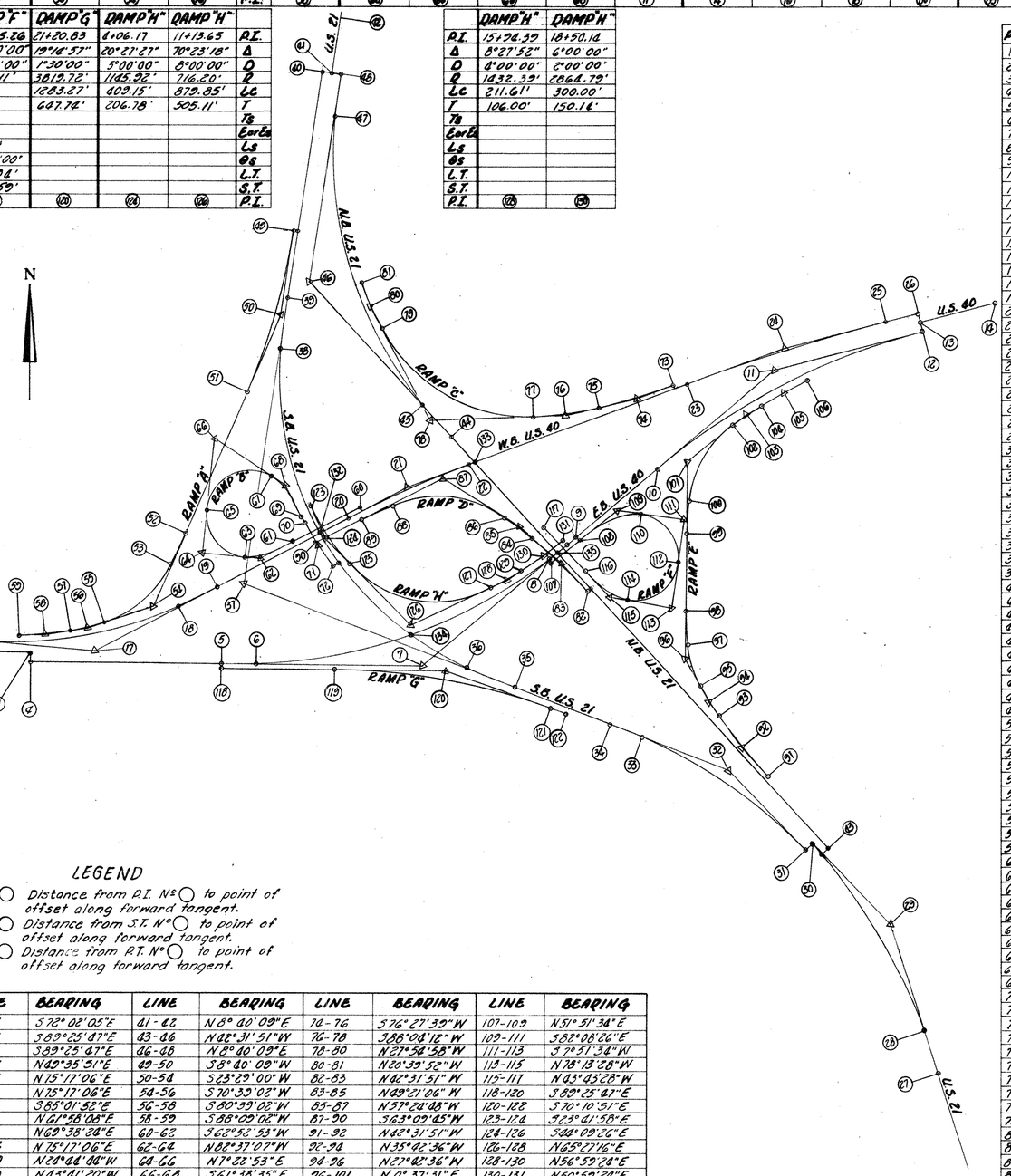
RAMPS E, F, G, & H SUPERELEVATION TABLES

	U.S.40 E.	U.S.40 E.B.	U.S.40 E.B.	U.S.40 N.B.	U.S.40 N.B.	U.S.40 N.B.	U.S.21 E.	U.S.21 S.B.	U.S.21 S.B.	U.S.21 N.B.	RAMP "A"	RAMP "A"	RAMP "A"		RAMP "B"	RAMP "B"	RAMP "B"	RAMP "B"	RAMP "B"	RAMP "C"	RAMP "C"	RAMP "C"	RAMP "C"	RAMP "D"	RAMP "D"	RAMP "D"	
P.I.	211+11.58	239+85.00	265+69.39	220+80.95	240+92.88	264+32.10	409+39.25	422+23.60	452+29.07	459+76.19	13+71.58	32+19.72	35+99.13	P.I.	38+49.09	46+32.81	47+77.98	22+82.48	25+06.27	28+94.15	8+88.95	12+50.20	20+39.89	26+55.15	7+77.63	11+05.67	16+19.80	P.I.
Δ	17°23'42"	40°58'22"	25°41'15"	33°00'00"	7°00'16"	5°38'42"	18°56'36"	25°17'54"	77°39'23"	21°12'00"	14°58'51"	67°10'02"	10°00'00"	Δ	7°30'00"	36°30'00"	90°00'00"	110°58'38"	36°30'00"	9°00'00"	6°09'15"	11°36'33"	40°00'50"	7°15'07"	6°09'15"	8°05'45"	59°25'28"	Δ
D	1°28'00"	2°00'00"	1°28'00"	2°30'00"	1°00'00"	0°28'00"	1°28'00"	2°00'00"	3°00'00"	2°30'00"	1°30'00"	8°00'00"	5°00'00"	D	2°30'00"	25°00'00"	23°00'00"	23°00'00"	25°00'00"	3°00'00"	1°30'00"	3°00'00"	6°00'00"	2°30'00"	1°30'00"	8°00'00"	8°00'00"	D
R	3906.53'	2864.79'	3906.53'	2291.83'	5,729.58'	12,277.67'	3,906.53'	2864.79'	1909.86'	2291.83'	3819.72'	716.20'	1145.92'	R	2291.83'	229.11'	229.11'	229.11'	229.11'	1909.86'	3819.72'	1909.86'	954.93'	2291.83'	3819.72'	1432.39'	716.20'	R
Lc	1186.03'	1848.64'	1151.62'	1195.00'	767.11'	1209.64'	1291.59'	1164.98'	2288.55'	1198.00'	987.61'	489.59'	200.00'	Lc	300.00'		391.31'	882.50'		300.00'	456.75'	386.27'	1066.90'	290.08'	454.75'	201.56'	611.81'	Lc
T	597.61'		890.68'	680.95'	384.13'	605.31'	651.74'	644.30'		496.58'	315.83'	100.25'	T	150.21'		229.11'	368.30'		150.31'	227.63'	198.15'	526.87'	185.23'	227.63'	100.96'	612.95'	T	
Te		1170.54'		802.12'				741.71'	1688.66'	1823.59'		410.43'		Te												531.65'	Te	
Lor Es		194.03'	100.25'		12.86'				584.23'	250.73'				Lor Es													Lor Es	
Ls		200'		250'				200'	300'	250'		200'		Ls		300'			300'							250'	Ls	
Θs		2°00'00"		3°07'30"				2°00'00"	4°30'00"	3°07'30"		8°00'00"		Θs		36°30'00"			36°30'00"							10°00'00"	Θs	
L.T.														L.T.		203.94'			203.94'								L.T.
S.T.														S.T.		103.59'			103.59'								S.T.
P.I.	②	⑦	⑪	⑰	㉑	㉔	㉙	㉜	㊲	㊱	㊵	㊹	㊻	P.I.	㊽	㊷	㊹	㊻	㊽	㊶	⑭	⑯	⑱	⑳	㉓	㉕	㉗	P.I.

	RAMP "E"	RAMP "E"	RAMP "E"	RAMP "E"	RAMP "E"	RAMP "E"	RAMP "F"	RAMP "F"	RAMP "F"	RAMP "F"	RAMP "G"	RAMP "G"	RAMP "H"	RAMP "H"	
P.I.	2+77.63	6+04.89	8+90.83	20+29.77	24+24.22	26+74.14	13+38.30	17+11.15	21+20.09	23+65.26	21+20.83	4+06.17	11+13.65	P.I.	
Δ	6°49'15"	8°00'00"	28°20'06"	50°15'27"	8°00'00"	6°30'00"	46°00'00"	90°00'00"	93°58'58"	34°30'00"	19°16'57"	20°27'27"	70°23'18"	Δ	
D	1°30'00"	4°00'00"	8°00'00"	8°00'00"	4°00'00"	1°30'00"	23°00'00"	23°00'00"	23°00'00"	23°00'00"	1°30'00"	5°00'00"	8°00'00"	D	
R	3819.72'	1432.38'	716.20'	716.20'	1432.39'	3819.72'	249.11'	249.11'	249.11'	249.11'	3813.72'	1145.92'	716.20'	R	
Lc	454.73'	200.00'	354.19'	528.22'	200.00'	300.00'		391.30'	600.33'		1283.27'	409.15'	879.85'	Lc	
T	227.63'	100.16'	185.70'	338.95'	100.16'	150.08'		249.11'	266.75'		647.78'	206.78'	505.11'	T	
Te			276.81'	439.93'										Te	
Lor Es														Lor Es	
Ls		200'	200'				400'			300'				Ls	
Θs		8°00'00"	8°00'00"				46°00'00"			34°30'00"				Θs	
L.T.							276.26'			209.94'				L.T.	
S.T.							142.10'			103.59'				S.T.	
P.I.	㉜	㉞	㊱	㊶	㊸	㊺	㊽	㊶	㊸	㊺	㊿	㊿	㊿	P.I.	

	RAMP "H"	RAMP "H"	
P.I.	15+24.39	18+50.14	P.I.
Δ	8°27'52"	6°00'00"	Δ
D	4°00'00"	2°00'00"	D
R	1432.39'	2864.79'	R
Lc	211.61'	300.00'	Lc
T	106.00'	150.16'	T
Te			Te
Lor Es			Lor Es
Ls			Ls
Θs			Θs
L.T.			L.T.
S.T.			S.T.
P.I.	㊿	㊿	P.I.

POINT	DESCRIPTION	LOCATION	COORDINATES	
88	C.S. 18+24.08 Ramp "D"	240+23.22 Tan U.S.40 N.B. 62.26' Rt.	84,571.83	50,782.08
89	S.T. 20+74.08 Ramp "D"	257+74.34 Tan U.S.40 N.B. 43.28' Rt.	84,612.26	50,553.14
90	P.O.T. 23+73.69 Ramp "D"	238+75.00 U.S.40 N.B., 37' Rt.	84,337.08	50,285.98
91	P.C. 0+50.00 Ramp "E"	220+50.00 U.S.21 N.B. 28' Rt.	82,980.73	52,912.84
92	P.I. 2+77.63 Ramp "E"	222+77.63 U.S.21 N.B., 28.00' Rt.	83,138.67	52,758.96
93	P.C.C. 5+04.13 Ramp "E"	225+03.66 U.S.21 N.B., 51.03' Rt.	83,333.31	52,626.10
94	P.I. 6+04.89 Ramp "E"	226+03.11 U.S.21 N.B., 62.93' Rt.	83,614.68	52,561.66
95	P.C.C. 7+04.13 Ramp "E"	226+99.94 U.S.21 N.B., 88.55' Rt.	83,503.31	52,521.06
96	P.I. 8+90.83 Ramp "E"	228+79.46 U.S.21 N.B., 136.05' Rt.	83,667.71	52,434.71
97	C.S. 9+58.92 Ramp "E"		83,744.41	52,444.85
98	S.T. 11+58.92 Ramp "E"		83,944.11	52,437.73
99	T.S. 15+95.84 Ramp "E"		84,381.00	52,482.69
100	S.C. 17+95.84 Ramp "E"		84,580.50	52,453.97
101	P.I. 20+29.77 Ramp "E"	258+47.12 Tan U.S.40 E.B., 82.49' Rt	84,814.91	52,447.23
102	P.C.C. 23+20.06 Ramp "E"	261+85.98 Tan U.S.40 E.B., 90.09' Rt.	85,028.76	52,710.21
103	P.I. 24+24.22 Ramp "E"	262+66.12 Tan U.S.40 E.B., 92.36' Rt.	85,091.95	52,787.92
104	P.C.C. 25+24.06 Ramp "E"	263+84.97 Tan U.S.40 E.B., 108.50' Rt	85,193.72	52,873.67
105	P.I. 26+74.14 Ramp "E"	265+48.47 U.S.40 E.B., 37.21' Rt.	85,221.27	53,002.15
106	P.C.C. 27+24.06 Ramp "E"	267+00.00 U.S.40 E.B., 37' Rt.	85,286.51	53,136.38
107	P.O.T. 8+50.00 Ramp "F"	248+50.00 U.S.40 E.B., 24' Rt.	84,214.73	51,667.47
108	T.S. 10+62.04 Ramp "F"	S.T.P. (2) U.S.40 E.B., 2.14', 23.5' Rt.	84,345.69	51,814.24
109	P.I. 13+38.30 Ramp "F"	253+37.01 U.S.40 E.B., 40.44' Rt.	84,516.30	52,031.52
110	S.C. 14+62.04 Ramp "F"	254+31.61 U.S.40 E.B., 146.47' Rt.	84,496.87	52,172.89
111	P.I. 17+11.15 Ramp "F"	16+77.38 Tan Ramp "E" 24.33' Lt.	84,662.81	52,413.06
112	P.O.C. 18+58.34 Ramp "F"	14+30.26 Ramp "E" 55.70' Lt	84,816.04	52,385.00
113	P.I. 21+20.09 Ramp "F"	11+65.63 Ramp "E", 89.29' Lt	83,951.80	52,388.52
114	C.S. 22+61.67 Ramp "F"	433+63.71 U.S.21 N.B., 108.38' Rt.	84,006.23	52,081.39
115	P.I. 23+65.26 Ramp "F"	434+47.86 U.S.21 N.B., 46.50' Rt.	84,027.37	51,985.98
116	S.T. 25+61.67 Ramp "F"	436+51.73 U.S.21 N.B., 44.26' Rt.	84,174.75	51,845.06
117	P.O.T. 29+10.02 Ramp "F"	440+00.00 U.S.21 N.B., 37' Rt.	84,426.50	51,608.85
118	P.O.T. 8+16.46 Ramp "G"	228+16.46 U.S.40 E.B. 24' Rt.	83,598.53	49,736.63
119	P.C. 14+73.09 Ramp "G"	234+73.09 Tan EB U.S.40, 2000' Rt	83,591.97	50,393.23
120	P.I. 21+20.83 Ramp "G"	439+47.38 Tan U.S.21 S.B., 52.51' Lt.	83,585.53	51,040.93
121	P.T. 27+56.36 Ramp "G"	432+39.74 U.S.21 S.B., 39.08' Lt.	83,365.90	51,650.30
122	P.O.T. 28+56.12 Ramp "G"	432+00.00 U.S.21 S.B., 37' Lt.	83,332.08	51,748.15
123	P.C. 1+30.39 Ramp "H"	452+00.00 U.S.21 S.B., 28' Rt.	84,569.14	50,258.37
124	P.I. 4+06.17 Ramp "H"	449+91.42 U.S.21 S.B., 16.10' Rt.	84,319.81	50,381.89
125	P.C.C. 6+06.54 Ramp "H"	447+84.89 U.S.21 S.B., 32.57' Rt.	84,231.46	50,485.53
126	P.I. 11+13.65 Ramp "H"	439+63.67 U.S.40 E.B., 71.16' Lt.	83,869.07	50,831.41
127	P.C.C. 14+88.39 Ramp "H"	S.T.P. (2) U.S.40 E.B., 563.04', 102.64' Lt.	84,078.90	51,296.87
128	P.I. 15+24.39 Ramp "H"	S.T.P. (2) U.S.40 E.B., 461.01', 73.68' Lt.	84,122.94	51,393.29
129	P.C.C. 17+00.00 Ramp "H"	S.T.P. (2) U.S.40 E.B., 361.96', 60.04' Lt.	84,180.68	51,482.17
130	P.I. 18+50.14 Ramp "H"	S.T.P. (2) U.S.40 E.B., 213.06', 30.76' Lt.	84,262.68	51,608.08
131	P.T. 20+00.00 Ramp "H"	250+00.00 U.S.40 E.B., 37' Lt.	84,356.97	51,724.74
132	235+30.68 U.S.40 W.B.	430+17.24 U.S.21 S.B.	84,325.91	50,317.76
133	245+10.09 U.S.40 W.B.	445+48.89 U.S.21 N.B.	84,805.67	51,206.21
134	239+44.50 U.S.40 E.B.	442+12.30 U.S.21 S.B.	84,795.26	50,844.62
135	249+22.62 U.S.40 E.B.	438+33.96 U.S.21 N.B.	84,279.13	51,669.22



LEGEND

P.I.P. ○ Distance from P.I. N°○ to point of offset along forward tangent.

S.T.P. ○ Distance from S.T. N°○ to point of offset along forward tangent.

P.T.P. ○ Distance from P.T. N°○ to point of offset along forward tangent.

LINE	BEARING	LINE	BEARING	LINE	BEARING	LINE	BEARING
15 - 2	S 72° 02' 05" E	41 - 42	N 8° 40' 09" E	74 - 76	S 76° 27' 39" W	107 - 109	N 51° 51' 34" E
2 - 3	S 89° 25' 47" E	43 - 46	N 42° 51' 51" W	76 - 78	S 38° 04' 12" W	109 - 111	S 82° 08' 26" E
4 - 7	S 89° 25' 47" E	46 - 48	N 8° 40' 09" E	78 - 80	N 27° 54' 58" W	111 - 113	S 7° 51' 34" W
7 - 11	N 89° 35' 51" E	49 - 50	S 8° 40' 09" W	80 - 81	N 20° 39' 52" W	113 - 115	N 78° 13' 26" W
11 - 12	N 75° 17' 06" E	50 - 54	S 23° 29' 00" W	82 - 83	N 42° 31' 51" W	115 - 117	N 43° 43' 28" W
13 - 14	N 75° 17' 06" E	54 - 56	S 70° 33' 02" W	83 - 85	N 49° 21' 06" W	118 - 120	S 89° 25' 47" E
16 - 17	S 85° 01' 52" E	56 - 58	S 80° 39' 02" W	85 - 87	N 57° 24' 48" W	120 - 122	S 70° 10' 51" E
17 - 21	N 61° 58' 08" E	58 - 59	S 88° 09' 02" W	87 - 90	S 63° 09' 45" W	123 - 124	S 23° 41' 58" E
21 - 24	N 69° 38' 28" E	60 - 62	S 62° 52' 53" W	91 - 92	N 42° 31' 51" W	124 - 126	S 44° 09' 26" E
24 - 26	N 75° 17' 06" E	62 - 64	N 82° 37' 07" W	92 - 94	N 35° 42' 36" W	126 - 128	N 65° 27' 16" E
27 - 29	N 20° 44' 00" W	64 - 66	N 7° 22' 53" E	94 - 96	N 27° 42' 36" W	128 - 130	N 56° 59' 28" E
29 - 30	N 43° 41' 20" W	66 - 68	S 61° 38' 35" E	96 - 101	N 0° 37' 31" E	130 - 131	N 50° 59' 28" E
31 - 32	N 43° 41' 20" W	68 - 71	S 27° 08' 35" E	101 - 103	N 50° 52' 58" E		
32 - 37	N 68° 59' 14" W	71 - 72	S 36° 08' 35" E	103 - 105	N 50° 52' 58" E		
37 - 40	N 8° 40' 09" E	73 - 74	S 69° 38' 28" W	105 - 106	N 63° 22' 58" E		

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

23
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

HORIZONTAL CONTROL DATA

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

24
250

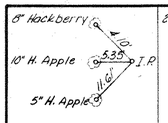
GUERNSEY COUNTY
GUE-40-8.93
PART 1

BENCH MARKS

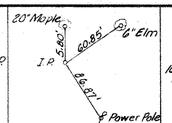
B.M. Nº	ELEVATION	DESCRIPTION
29	784.49	Spike in S.E. root 18" stump, centerline 197+35.6 U.S.40
30	788.54	Spike in N.E. root 20" Oak, 12' Lt. 201+26.0 U.S.40
31	786.49	Spike in N. root 10" elm, 11.6' Rt. 207+13.7 U.S.40
32	786.89	Spike in N. root 14" elm, centerline 213+60 U.S.40
33	785.76	Spike in N. root 36" elm clump, 63' Lt. 220+30 E.B.U.S.40
34	785.23	Spike in N. side 8" poplar, 151' Lt. 225+65 E.B.U.S.40.
35	784.78	Spike in N.E. side 9" sycamore, 183' Rt. 226+05 W.B.U.S.40
35-A	785.81	M.S. in Twin 14" Maples, 4' Rt. 39+61 I.R. 435 Reloc.
36	804.46	Spike in W. root 13" oak, 167' Lt. 227+75 E.B. U.S.40
37	839.50	Spike in W. root 15" oak stump, 250' Rt. 229+30 W.B.U.S.40
38	871.05	Spike in E. root 15" maple, 250' Rt. 232+75 W.B.U.S.40
39	865.10	Spike in N. root 14" maple, 105' Rt. 446+60 S.B.U.S.21
40	839.11	Spike in N. root 24" elm 150' Lt. 14+25 Ramp "D"
41	858.80	Spike in S. side trunk leaning 20" beech 230' Rt. 248+85 W.B.U.S.40
42	905.81	Spike in N.W. root 18" poplar, 210' Rt. 252+70 W.B.U.S.40
43	925.54	Spike in S. side 10" hickory, 178' Rt. 255+70 W.B.U.S.40
44	949.12	Spike in N. root 18" beech, 105' Lt. 262+00 E.B.U.S.40
45	993.93	Spike in N. root 6" oak, 44' Lt. 266+75 E.B.U.S.40
46	1014.09	Spike in S.W. root 6" oak 48' Lt. 267+55 E.B.U.S.40
47	967.87	Spike in N. root 11" beech, 30' Lt. 269+30 E.B.U.S.40
48	948.26	Spike in S.E. root 14" beech, 32' Lt. 271+30 E.B.U.S.40
49	936.18	Spike in N. root 10" maple, 4.5' Rt. 275+02 U.S.40
50	955.72	Spike in S. root 12" w. cherry, centerline 278+22.7 U.S.40

B.M. Nº	ELEVATION	DESCRIPTION
141	855.52	P.K. Spike in S.W. side 12" poplar, 295' Rt. 432+20 S.B.U.S.21
142	873.40	Top conc. R/W marker, 330' Rt. 434+67 S.B.U.S.21
143	879.68	Spike in S.W. root 28" w. cherry, 27' Lt. 245+35 E.B.U.S.40
145	824.43	Spike in E. root twin sycamore, 147' Lt. 230+98 W.B.U.S.40
146	795.17	Spike in E. root 32" sycamore, 325' Rt. 458+35 S.B.U.S.21
147	792.95	Spike in E. side telephone pole, 32' Lt. 465+45 S.B.U.S.21
148	787.34	Spike in W. side 27" sycamore, 70' Lt. 462+75 N.B.U.S.21
149	838.97	Spike in E. root 27" oak, 15' Rt. 474+43 S.B. U.S.21
149-A	847.22	Spike in R/W fence post, 28.5' Rt. 58+40 I.R.435 Reloc.
150	831.40	P.K. Spike in E. side 27" oak, 98.5' Lt. 475+97.5 U.S.21
150-A	808.50	M.S. in Guy Pole, 27' Rt 93+32 I.R.435 Reloc.

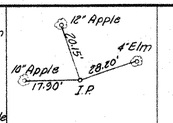
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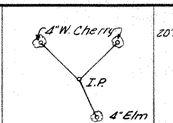
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E.B. U.S.40



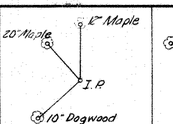
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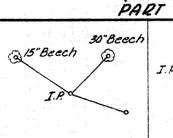
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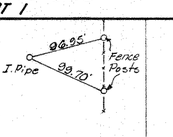
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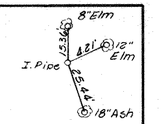
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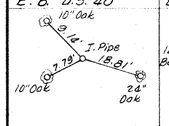
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E.B. U.S.40



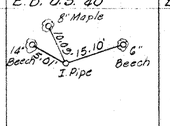
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P.O.T. 228+00.00
E.B. U.S.40



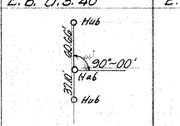
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P.I. 265+69.39 E.B.40



P.O.T. 227.66' Ahead
P.I. 265+69.39 E.B.40



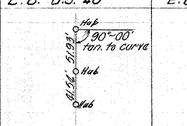
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E.B. U.S. 40



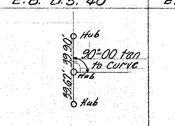
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NE U.S. 40



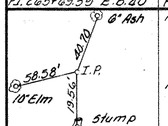
P.O.T. 200+84.96
NE U.S. 40



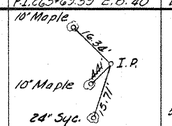
P.O.C. 207+13.97
NE U.S. 40



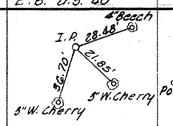
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NE U.S. 40



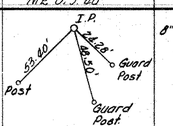
P.I. 220+80.95
W.B. U.S. 40



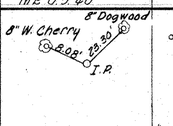
P.O.T. 470 G.7' Ahead of
P.I. 220+80.95 W.B. U.S. 40



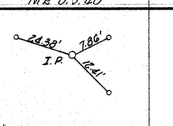
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W.B. U.S. 40



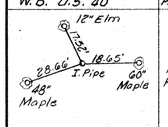
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W.B. U.S. 40



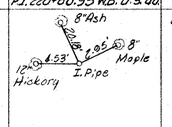
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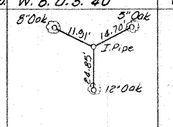
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W.B. U.S. 40



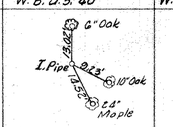
P.C. 214+00.00
W.B. U.S. 40



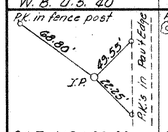
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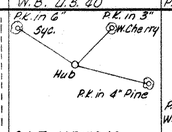
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P.I. 264+32.10 W.B.40



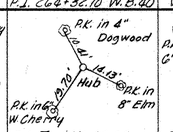
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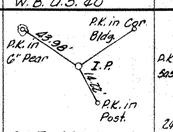
P.O.T. 415+00.00
N.B. U.S. 21



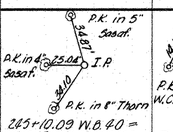
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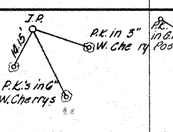
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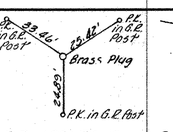
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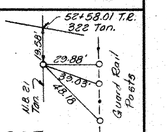
265+10.09 W.B.40 =
P.O.T. 445+48.49
N.B. U.S. 21



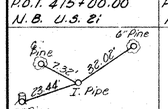
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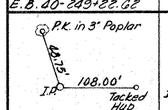
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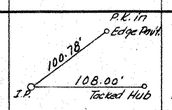
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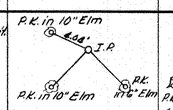
N.B. 21-438+33.96 =
E.B. 40-239+22.62



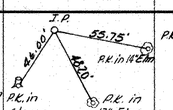
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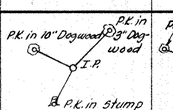
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S.B. U.S. 21



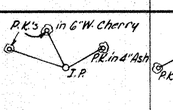
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S.B. U.S. 21



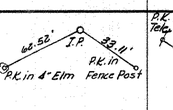
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S.B. U.S. 21



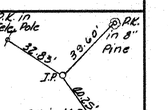
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S.B. U.S. 21



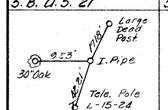
P.I. 452+29.07
S.B. U.S. 21



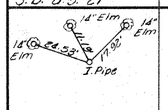
P.O.T. 806.17' ahead of
P.I. S.B. U.S. 21



P.O.T. 425+40.59
S.B. U.S. 21



P.O.T. 476+19.58
S.B. U.S. 21



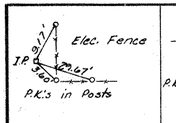
P.I. 211+11.58
Main & U.S. 40

REFERENCES

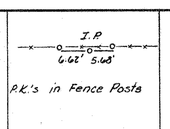
FED. RD. DIST. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

GUERNSEY COUNTY
GUE-40-8.03
PART 1

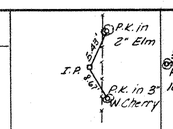
25
250



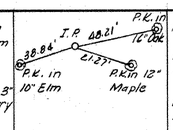
P.O.T. 7+32.88
T.R. 321 Extn.



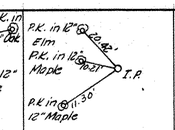
P.I. 12+72.13
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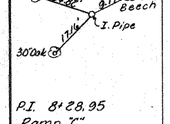
P.O.T. 21+68.62
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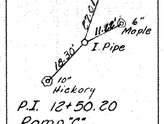
P.I. 31+72.36
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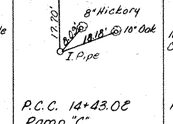
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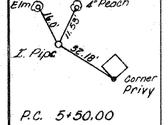
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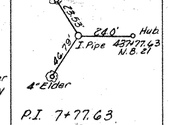
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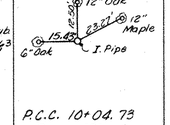
57+24.11
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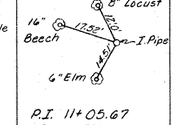
32+00.00
T.R. 435 ℄



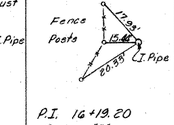
34+64.47
T.R. 435 ℄



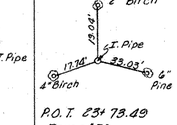
P.C. 68+55.78
T.R. 435 Reloc.



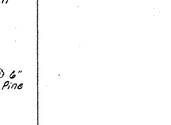
P.I. 72+28.22
T.R. 435 Reloc.



P.I. 81+76.59
T.R. 435 Reloc.



P.C. 93+08.29
T.R. 435 Reloc.

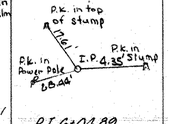


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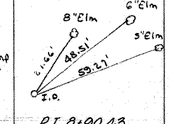
P.I. 95+04.81
T.R. 435 Reloc.



P.I. 36+59.62
T.R. 435 Reloc.



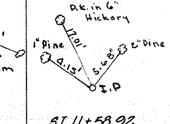
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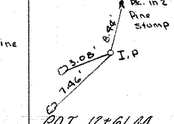
P.C. 51+27.32
Wills Creek



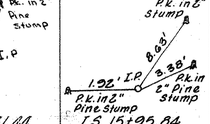
P.I. 53+40.33
Wills Creek



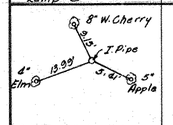
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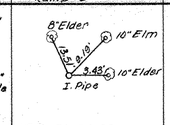
P.O.T. 56+89.09
Wills Creek



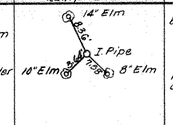
P.I. 59+01.04
T.R. 435 Reloc.



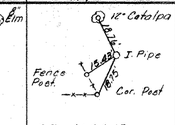
P.C. 8+75.00
Ramp "A"



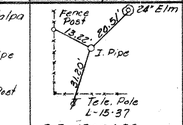
P.I. 13+71.58
Ramp "A"



P.I. 18+62.61
Ramp "A"



T.S. 28+09.29
Ramp "A"



P.I. 32+19.78
Ramp "A"

T.S. 12+28.87
Ramp "B"

P.I. 14+32.81
Ramp "B"

P.O.C. 19+20.81
Ramp "B"

P.I. 25+06.27
Ramp "B"

S.T. 27+02.68
Ramp "B"

P.I. 28+94.15
Ramp "B"

P.I. 22+82.48
Ramp "B"

P.I. 8+28.95
Ramp "C"

P.I. 12+50.20
Ramp "C"

P.C.C. 14+43.02
Ramp "C"

P.I. 20+38.89
Ramp "C"

o I. Pipe
No Reference Available.
P.I. 26+55.15
Ramp "C"

P.C. 5+50.00
Ramp "D"

P.I. 7+77.63
Ramp "D"

P.C.C. 10+04.73
Ramp "D"

P.I. 11+05.67
Ramp "D"

P.I. 16+19.20
Ramp "D"

P.O.T. 23+73.49
Ramp "D"

P.C. 0+50.00
Ramp "E"

P.I. G+04.89
Ramp "E"

P.I. 8+90.43
Ramp "E"

C.S. 9+58.92
Ramp "E"

S.T. 11+58.92
Ramp "E"

P.O.T. 12+61.44
Ramp "E"

P.I. 59+01.04
T.R. 435 Reloc.

P.O.T. 14+20.59
Ramp "G"

P.I. 21+20.83
Ramp "G"

P.I. 27+56.36
Ramp "G"

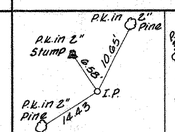
P.C. 1+99.39
Ramp "H"

P.I. 4+06.17
Ramp "H"

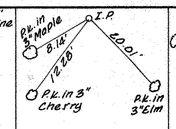
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Ramp "H"

P.I. 18+50.14
Ramp "H"

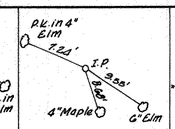
P.T. 20+00.00
Ramp "H"



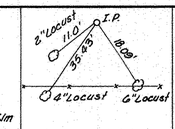
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Ramp "F"



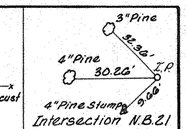
SC. 14+62.04
Ramp "F"



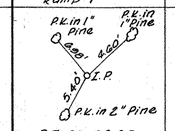
P.I. 13+38.30
Ramp "F"



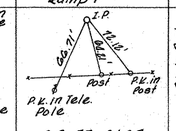
T.S. 10+62.04
Ramp "F"



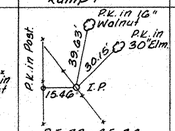
4" Pine Stump
Intersection N.B. 21
& Ramp "F"
438+09.03 N.B. 21



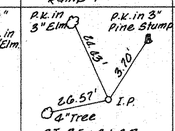
P.I. 21+20.09
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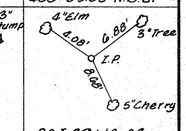
C.S. 22+61.67
Ramp "F"



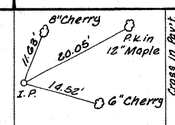
P.I. 23+65.26
Ramp "F"



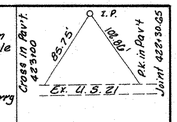
S.T. 25+61.67
Ramp "F"



P.O.T. 29+10.02
Ramp "F"



P.I. 26+74.14
Ramp "E"



P.T. 28+24.06
Ramp "E"



P.I. 2+77.63
Ramp "E"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

26
250

GUERNSEY COUNTY
GUE-40-8.93
PART I

~BUILDING LEGEND~

B = Born
F = Frame
G = Garage
1-S.F.R. = 1 Story Frame Residence
S. = Shed
M = Metal
C.B. = Concrete Block
M.G. = Metal Garage
F.G. = Frame Garage
T.G. = Tile Garage
B.B. = Block Born
F.B.B. = Frame & Block Barn
C.M.B. = Corrugated Metal Barn
T.S. = Tile Shed
T-F.B. = Tile & Frame Barn
C.B.-F.R. = Concrete Block & Frame Residence
C.B.B. = Concrete Block Basement
C.B.G. = Concrete Block Garage

SHT. No 30
SHT. No 31
SHT. No 32
SHT. No 33
SHT. No 34
SHT. No 38
SHT. No 48
SHT. No 49
SHT. No 57
SHT. No 59

BEGIN PROJECT & WORK 195+00.00

The Guernsey Engineering & Supply Company, Ltd.

Floyd Fillman, Jr. & Romaine Fillman

Bertha May Fogle, ETAL

Hillis Albright & Milton W. Albright

Ernest E Gay & Mabel Noble Gay

Matt Slifko & Susie Slifko

Ica A. Thompson ET AL

Kenneth A. Gadd

Donald A. Krantz, ET AL

E. Joseph Dyer & M. Irene Dyer

Richard F. Walter & Marjorie A. Walter

Drift Coal Mine (Abandoned)

WILLS CREEK

CHAPMAN RUN CHANNEL RELOC.

WILLS CREEK CHANNEL RELOC. No 1

Pennsylvania-Ohio and Detroit R.R. Pennsylvania Company (Operator)

Chapman Run

Ex. Channel Easement

Ex. Twp. Rd. 435

T.R.435 RELOC.

RAMP B

RAMP D

RAMP C

W.B. US-40

E.B. US-40

S.R. US-21

Sarah E. Vance

T. 2 N.
T. 1 N.

M.L. 40
M.L. 25
M.L. 39
M.L. 26
M.L. 24
M.L. 23

SCALE: 1" = 200'

PLAN SHEET- KEY PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

27/250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

SHT. No 49 | SHT. No 58 | SHT. No 57 | SHT. No 48 | SHT. No 36 | SHT. No 37 | SHT. No 35 | SHT. No 34 | SHT. No 33 | SHT. No 47 | SHT. No 32 | SHT. No 59 | SHT. No 46 | SHT. No 38

Floyd Fillman Jr. & Romaine Fillman
WILLS CREEK
Ex. Pump House City of Cambridge
Hillis Albright & Milton W. Albright
Ex. 20" Gravity Upland
Ex. 16" Water Line
City of Cambridge Reservoir
16" Outfall
City of Cambridge
Tom Howard
Sarah E. Vance
Drift Coal Mine (Abandoned)
David Joseph Mc Manaway
Bertha O. Mc Manaway
Bertha May Fogle, ET AL
Drift Coal Mine (Abandoned)
Ira A. Thompson ET AL
Coal Mine (Active) Paul Morrison & Dorothy Morrison
John Diss & Dorothy Diss
Edward D. Perkins
Herbert L. Morgan & Violet Morgan
Matt Slifko & Susie Slifko
Donald A. Kranz ET AL
Kenneth A. Gadd
Joseph Dyer & M. Irene Dyer
Richard F. Walters & Marjorie A. Walters
Ernest E. Todd & Bernice D. Todd
Hillis Albright & Milton W. Albright
Matt Slifko ET AL
John E. Tucker & Elva L. Tucker
Gourmand Valentine & Vera Valentine
Dewey R. Valentine & Glenna Ruth Valentine
Charles E. Stevens & Betty L. Stevens
Harry Irvin Graham & Doris Leota Graham
George Elmer Knight & Ruth Ann Knight
Agnes A. Ames ET AL
Howard & Thelma Diss
John Davis & Mildred R. Davis
Geneva Wallace
Hazel I. Billett
Paul A. Westover & Lenora E. Westover
Craig O. Warne & Dorothy E. Warne
John E. Tucker & Elva L. Tucker

RAMP A | RAMP B | RAMP C | RAMP D | RAMP E | RAMP F | RAMP G | RAMP H

W.B. U.S. 40 | E.B. U.S. 40

T.EN. T.IN.
ML. 25 | ML. 24 | ML. 23 | ML. 9 | ML. 8 | ML. 10

R.2.435 RELOC.

BEGIN WORK 39+55 T.R. 435 Relocation
BEGIN WORK 450+25 S.R. U.S. 21
END PROJECT & WORK 271+55 E.B. U.S. 40

GUE-40-10.52 279+00

To be obtained with the GUE-40-10.52 Project

Ex. Co. Rd. 32

~ BUILDING LEGEND ~
B = Barn
F = Frame
G = Garage
1-S.F.R. = 1 Story Frame Residence
S = Shed
M = Metal
C.B. = Concrete Block
M.G. = Metal Garage
F.G. = Frame Garage
T.G. = Tile Garage
B.B. = Block Barn
F.B.B. = Frame & Block Barn
C.M.B. = Corrugated Metal Barn
T.S. = Tile Shed
T-F.B. = Tile & Frame Barn
C.B.-F.R. = Concrete Block & Frame Residence
C.B.B. = Concrete Block Basement
C.B.G. = Concrete Block Garage

274+50.13 E.B. Back =
272+26.54 W.B. Back =
272+67.75 @ U.S. 40 Ahead

SCALE : 1" = 200'

PLAN SHEET-KEY PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

28/250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

~BUILDING LEGEND~

B. = Barn
F. = Frame
G. = Garage
1-S.F.R. = 1 Story Frame Residence
S. = Shed
M. = Metal
C.B. = Concrete Block
M.G. = Metal Garage
F.G. = Frame Garage
T.G. = Tile Garage
B.B. = Block Barn
F.B.B. = Frame & Block Barn
C.M.B. = Corrugated Metal Barn
T.S. = Tile Shed
T.-F.B. = Tile & Frame Barn
C.B.-F.R. = Concrete Block & Frame Residence
C.B.B. = Concrete Block Basement
C.B.G. = Concrete Block Garage

Hillis Albright & Milton W Albright
Richard F Walters & Marjorie A Walters
Ernest E Todd & Bernice D Todd
Joseph Oyler
M Irene Oyler
Matt Slifko, ET AL
(Active) Strip Mine
Truck Scale House & Scales
Kenneth A Good
Donald R Kronz
John E. Tucker & Elva L. Tucker
Raymond Valentine & Vera Valentine
Herbert L Morgan & Violet Morgan
Dewey E Valentine & Retha Valentine
Harry Irvin Graham & Doris Leola Graham
Charles E. Stevens & Betty L. Stevens
Guernsey County Cemetery
George Elmer Knight & Ruth Ann Knight
Richard Diss & Thelma Diss
Agnes Glass, ET AL
Hazel I Billett
Genevo Wallace
Elva L. Tucker ET AL
David Eugene Campbell & Donna C. Campbell
Curtis Brown & Delores M Brown
Forest Wayne Valentine & Shirley Valentine
Beryl White & Marie White
Alan T Rogers & Patty A Rogers
Donald J Sigman & Virginia J Sigman
Betty J Sheen
Edna M Valentine
Byesville Sewage Treatment Plant
(Abandoned) Strip Mine

WILLS CREEK
JACKSON TWP & CAMBRIDGE TWP
L.R.521 EXTN.
BEGIN WORK 450+25 S.B. US-21
SHT. NO 45
SHT. NO 46
RAMP "B"
RAMP "E"
Ex. U.S. 21
S.B. U.S. 21
N.B. U.S. 21
Ex. Co. Rd. 521
Ex. Co. Rd. 4
LA-Ex. R/W
Ex. R/W
CASE R/W
M.L. 5
M.L. 6
M.L. 7
M.L. 8
M.L. 9
M.L. 10
M.L. 11
M.L. 12
M.L. 22
M.L. 23
M.L. 24
SCALE: 1" = 200'

PLAN SHEET - KEY PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

29/250

GUERNSEY COUNTY
GUE -20-8.93
PART 1

~ BUILDING LEGEND ~

B. = Barn
F. = Frame
G. = Garage
1-S.F.R. = 1 Story Frame Residence
S. = Shed
M. = Metal
C.B. = Concrete Block
M.G. = Metal Garage
F.G. = Frame Garage
T.G. = Tile Garage
B.B. = Block Barn
F.B.B. = Frame & Block Barn
C.M.B. = Corrugated Metal Barn
T.G. = Tile Shed
T-F.B. = Tile & Frame Barn
C.B.-F.R. = Concrete Block & Frame Residence
C.B.B. = Concrete Block Basement
C.B.G. = Concrete Block Garage

T.1 N. T.2 N.
SHT. No 47
SHT. No 49
SHT. No 50
SHT. No 51
SHT. No 34
SHT. No 48
SHT. No 58
Matt Slifka
Susie Slifka
WILLS CREEK RELOC. No 1
M.L. 25
M.L. 24
T.R. 435 RELOC.
Ex. Twp. Rd. 435
RAMP "B"
RAMP "A"
RAMP "D"
RAMP "C"
Drift Coal Mine (Abandoned)
Martha May Fogle, Et Al
Floyd Fillman, Jr. & Romaine Fillman
WILLS CREEK
Ex. 24" Water Line to Plant
James McManaway
William A Larrick & Margaret K Larrick
END WORK 814+75 T.R. 435 Relocation
WILLS CREEK CHANNEL RELOC. No 2
Prop. Dam (Part 1)
Ex. Cambridge Water Supply Dam
Prop. Pump House (Part 2)
Ex. Pump House
Ex. City of Cambridge
Ex. 16" Water Line
Ex. 24" Water Line
Ex. Reservoir Drive
EXISTING DAM RESERVOIR
CAMBRIDGE RESERVOIR
END WORK 477+00 S.B. U.S. 21
Charles F McManaway
Myrtle McManaway
Mary E. Wilson
George McManaway
Hilma Albright
Milton W. Albright
Sarah E. Vance
Joseph McManaway
Tom Howard
Cool Mine (Active)
Ralph Morrison & Dorothy Morrison
David Joseph McManaway & Bertha O McManaway
Mark Latchic & Elizabeth M Latchic
William B. Allshouse
Anna Vera Herman
Hans & Ray Wilkins
Goldie M. Stanton
Mike Orahoske
Anna Orahoske
John Porter
Robert Orahoske
Shirley Orahoske
S.B. U.S-21
N.B. U.S-21
E.B. U.S-40
W.B. U.S-40
Ex. U.S. 21
T.R. 322 Ex. Tn.
T.R. 322

SCALE: 1" = 200'

PLAN SHEET - KEY PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

30
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

LEGEND:
Full width pavement and shoulder shading indicates grading limits.

THE GUERNSEY ENGINEERING AND SUPPLY COMPANY, LTD.

N

ERNEST E. GAY
MABEL NOBLE GAY

LA-Ex. R/W

LA-Ex. R/W

LA-Ex. R/W

I-70-7(17)110

BEGIN PROJECT E WORK
STA. 185+00.00
SLM 8.93

E 783.29(Ex.)

Const. Limits

Ex. 10' Ch.

Begin Taper 197+00

Ex. NORTHEAST RAMP

Ex. W.B. U.S. 40

22'

185 186 187 188 189 190 191 192 193 194 195 196

℄ Survey & Construction U.S. 40

S 72°02'05" E

197+00 See Sheet No 31

Ex. E.B. U.S. 40

Ex. SOUTHWEST RAMP

24'

10.42'

Ex. 15"

GUE-40-8.36

I-70-7(17)180

Const. Limits

E 781.90(Ex.)

Ex. 10' Channel

LA-Ex. R/W

LA-Ex. R/W

LA-Ex. R/W

NOTE: Adjoining Typical Section is the same as Typical Section "A" except for Grading Line and widths as shown above.

THE GUERNSEY ENGINEERING AND SUPPLY COMPANY, LTD.

NOTE: Marker will be furnished and erected on the right by the State before acceptance of this improvement.

ERNEST E. GAY
MABEL NOBLE GAY

PROFILE
U.S. 40 See Sheet No 30

185+00 to 197+00 U.S. 40

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

31
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

TREES TO BE REMOVED
195+00 to 209+00

281	12" to 18"
201	18" to 24"
117	24" to 30"
3	Over 48"

N

FLOYD FILLMAN JR.
ROMAINE FILLMAN

BERTHA MAY FOGLE, ET AL

Work Agreement

L.A-Ex. R/W

Const. Limits

L.A&R/W

2502 2501 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520

NOTE:
Fill Existing Channel from Elev. 785.0 at R/W Line to Elev. 780.0 at Roadway 2:1 Slope. Slope area inside R/W Sta. 198+25 to 203+00 left to drain.

Cross hatched areas to be filled using Channel Excavation

WILLS CREEK

End Taper 198+00

Ex. R/W Fence

Begin Taper 202+25

PC 205+13.99

35°46'00" Tang to Curve

198 199 200 201 202 203 204 205 206 207 208

Survey & Construction U.S. 40

S 72° 02' 05" E

Sta. 200+87.80 U.S. 40 = V.S.S. 2511+21.01

197+00 See Sheet N° 30

209+00 See Sheet N° 32

End Taper 200+00

Ex. R/W Fence

PENNSYLVANIA, OHIO AND DETROIT RAILROAD (PENNSYLVANIA COMPANY, OPERATOR)

P.T. 203+30.80

FLOYD FILLMAN, JR.
ROMAINE FILLMAN

CHAPMAN RUN

NOTE:
Fill Existing Channel to minimum Elev. 784.5 - Slope to drain.

Begin Chapman Run Reloc. 207+15, 345 Lf.

207+15 to 208+50
1-10 220 C.Y. Dumped Rock Channel Protection (18" Thickness - place 18" below proposed stream flow line.)

1-D

End D.R. 208+50

CHAPMAN RUN RELOC.

208+03 380 Lf.

100' R.

Channel Easement

ERNEST E. GAY
MABEL NOBLE GAY

Begin D.R. 206+85

10' Ex. Channel

Ex. Channel Easement

ERNEST E. GAY
MABEL NOBLE GAY

PROFILES
U.S. 40 — See Sheet N° 39
CHAPMAN RUN RELOC. — See Sheet N° 64

197+00 to 209+00 U.S. 40

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

32
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

Cross hatched areas to be filled using channel excavation

N

NOTE:
Fill Existing Channel to Elev. 786.0 & Slope to drain to an outlet

Work Agreement

Const. Limits

BERTHA MAY FOGLE, ET AL

CREEK

L A & R/W

WILLS

MATT SLIFKO
SUSIE SLIFKO

NOTE:
Fill Existing Channel to Elev. 786.0 & Slope to drain to an outlet

BERTHA MAY FOGLE, ET AL

209+00 See Sheet No. 31

214+00.00 W.B. U.S.40
216+00.00 U.S.40 & 54' Lt.

PCC 39+98.68

PCC 36+98.88

35+00 See Sheet 15

221+50 See Sheet No. 33

222+00 See Sheet No. 33

DAMP "A"

WEST BOUND U.S.40

EAST BOUND U.S.40

℄ Survey & Construction

℄ Survey & Construction U.S.40

Tan. Extended 7

S 72°02'05" E

S 89°25'47" E

217+00.00 E.B. U.S.40 Ahead
PT. 217+00.00 U.S.40 E
Back, 54' Rt.

Elev. 800.0+

Elev. 793.0+
See Sheet No. 33 for D.R. Quantities

FLOYD FILLMAN, JR
ROMAINE FILLMAN

ERNEST E GAY
MARY NOBLE GAY

℄ CHAPMAN RUN RELOCATION

Channel Easement

Const. Limits

MATT SLIFKO
SUSIE SLIFKO

CHAPMAN RUN RELOC.
18' Bottom
2:1 Side Slopes

Begin D.R. 221+50

I-D
I-10 2.33 C.Y. Dumped Rock Channel Protection (18" Thickness)

TREES TO BE REMOVED
209+00 to 221+50 W.B.U.S.40
209+00 to 222+00 E.B.U.S.40

257	12" to 18"
232	18" to 24"
96	24" to 30"
9	36" to 42"
3	Over 48"

PROFILES

W.B.U.S.40	See Sheet No. 43
U.S.40	See Sheet No. 39
E.B.U.S.40	See Sheet No. 40
CHAPMAN RUN RELOC.	See Sheet No. 64

209+00 to 221+50 W.B.U.S.40

209+00 to 222+00 E.B.U.S.40

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

33
250

QUERNSEY COUNTY
GUE-40-8.93
PART 1

BERTHA MAY FOGLE, ET AL

32+51.78 Ramp "A" = 51+20.77 T.R.435

33+57.87 Ramp "A" = 50+91.05 Wills Creek Reloc. N°1

52+00 See Sheet N° 57

2-D

2-2 I-16 1-Manhole Abandoned

RAMP "A"

RAMP "B"

See Sheet N° 57 for Slope Lines

Abandon Ex 12" C.M.P.

Ex. M.H.

C.S. 253+95.00

57.1 220+45.00

4-D

1-D

35+00 See Sheet N° 56

221+50 See Sheet N° 32

222+00 See Sheet N° 32

234+00 See Sheet N° 54

WEST BOUND U.S.40

EAST BOUND U.S.40

Survey & Construction

STRUCTURE N° C See Sheet N° 209

STRUCTURE N° B See Sheet N° 208

STRUCTURE N° A See Sheet N° 207

Ex. 12" T.S.P. Sanitary (Abandoned)

Ex. Twp Rd 435

T.R. 435 RELOC.

WILLS CREEK

TO BE VACATED

Abandon Ex. Field Drive

Const. Limits

Ex. R/W

Ex. M.H. (Abandon) (See Sheet N° 38)

Ex. M.H. Abandoned

Ex. Tile

Ex. Shed

Ex. Shed

Ex. Shed

KENNETH A. GADD

LA & R/W

1-A 1-16 1-M.H. Abandoned

5+220.46

8+44.46 Ramp "G" = 223+75.46 E.B.U.S.40

24°

223+75.14 W.B.U.S.40 = 50+17.05 T.R.435

223+31.44 E.B.U.S.40 = 47+85.33 Wills Cr. Reloc. N°1

221+75.02 W.B.U.S.40 = 50+12.45 Wills Cr. Reloc. N°1

222+00 E.B.U.S.40 77 Ft.

222+35.52 E.B.U.S.40 = 47+56.48 T.R.435

N61°58'00"E

N16°31'31"W

N15°31'31"W

N18°31'31"W

N89°25'47"W

S89°25'47"E

S89°25'47"E

Begin D.R. 45+50

Channel Easement

CHANNEL RELOC. N°1 PROPOSED CURVE DATA
PI = 45+96.18
Δ = 10°00'00"
D = 3°00'00"
R = 1909.86'
L = 333.33
T = 167.09

WILLS CREEK CHANNEL RELOC. N°1

CHAPMAN RUN RELOC.

Begin D.R. 225+20

End Taper 226+00

Begin D.R. 225+20

End Taper 226+00

PC 44+23.09

PC 42+41.32

PT 47+56.48

PT 47+73.22

43+00 See Sheet N° 38

42+00 See Sheet N° 38

12+00 See Sheet N° 59

236+00

See Sheet N° 34

3-D 33+55 to 64+00 T.R.435 RELOC. I-9,000 L.F. Stone Underdrains.

5-D 42+00 to 45+25 L-10 313 S.Y. Sod.

1-D 225+20 E.B.U.S.40 Ft. to 52+00 T.R.435 Ft.
I-10 670 C.Y. Dumped Rock Channel Protection (18" Thickness)
CHAPMAN RUN RELOC. 45+50 to 52+00

2-D CHANNEL RELOC. N°1
I-10 2867 C.Y. Dumped Rock Channel Protection (18" Thickness)

4-D 47+75 to 51+00, 120' Lt. CHANNEL RELOC. N°1
I-10 287 C.Y. Dumped Rock Channel Protection (18" Thickness)

T.R. 435 RELOC. PROP. CURVE DATA
PI = 45+90.70
Δ = 73°54'16"
D = 16°00'
R = 358.10'
L = 461.90'
T = 269.38'
E = 90.01'

NOTE: Fill Ex. Channel to El. 780.0. Slope to drain to an Outlet.

ESTIMATED QUANTITIES TO GENERAL SUMMARY

REF. N°	I-0 Stone Undrained	I-10 Dumped Rk.	I-16 Aban. Ex. M.H.	L-10 Sod		
UNITS	L.F.	C.Y.	Ea.	S.Y.		
1-D		670				
2-D		2867				
3-D	1,000					
4-D		287				
5-D				313		
1-2			1			
2-2			1			
TOTAL	1,000	3833	2	313		

TREES TO BE REMOVED
221+50 to 234+00 W.B.U.S.40
222+00 to 236+00 E.B.U.S.40
42+00 to 52+00 T.R.435 RELOC.
43+00 to 52+00 WILLS CREEK CHANNEL RELOC. N°1
CHAPMAN RUN RELOC.

2/2	12" to 18"
60	18" to 24"
35	24" to 30"
6	36" to 42"

PROFILES

W.B.U.S.40	See Sheet N° 43
E.B.U.S.40	See Sheet N° 40
T.R.435 RELOC.	See Sheet N° 63
WILLS CREEK CHANNEL RELOC. N°1	See Sheet N° 64
CHAPMAN RUN RELOC.	See Sheet N° 64

221+50 to 234+00 W.B.U.S.40
222+00 to 236+00 E.B.U.S.40

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

34
250

GUERNSEY COUNTY
GUE-40-8.93
PART I

TREES TO BE REMOVED
234+00 to 236+25 W.B.U.S.40
29
12" to 18"

TREES TO BE REMOVED
443+40 to 446+00 N.B.U.S.21
243+25 to 249+00 W.B.U.S.40
14
12" to 18"

TREES TO BE REMOVED
236+00 to 242+75 E.B.U.S.40
6
12" to 18"

TREES TO BE REMOVED
437+50 to 442+25 N.B.U.S.21

80	12" to 18"
2	18" to 24"
1	24" to 30"
16	30" to 36"

PROFILES

W.B.U.S.40	See Sheet No 43 & 44
E.B.U.S.40	See Sheet No 40 & 41
N.B.U.S.21	See Sheet No 52
S.B.U.S.21	See Sheet No 55 & 56

RAMP "D" & RAMP "H"
443+00 to 451+50 S.B.U.S.21
437+50 to 446+00 N.B.U.S.21
234+00 to 249+00 W.B.U.S.40
236+00 to 251+00 E.B.U.S.40

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

35
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

N

LA & R/W

Const. Limits

TOM HOWARD

JOHN E. TUCKER
ELVA L. TUCKER

DAVID JOSEPH McMANAWAY
BERTHA O. McMANAWAY

HERBERT L. MORGAN
VIOLET MORGAN

249+00 See Sheet No 34

251+00 See Sheet No 34

261+00 See Sheet No 36

262+75 See Sheet No 36

RAMP "C"

RAMP "E"

RAMP "F"

WEST BOUND U.S. 40

EAST BOUND U.S. 40

Survey & Construction

Survey & Construction E.B. U.S. 40

N 69° 38' 24" E

N 69° 35' 51" E

PC 6+01.32 Ramp "C"
257+50.00 W.B.U.S.40, 22 Lt.
See Sheet No 38

PC 258+26.79

PC 256+79.50

251+00 W.B.U.S.40
SUSPEND GRADING

258+25 W.B.U.S.40
RESUME GRADING

End Taper
262+00

Abandon Ex. Field Drive

TREES TO BE REMOVED
258+75 to 261+00 W.B.U.S.40
80 12" to 18"
2 24" to 30"

TREES TO BE REMOVED
249+00 to 251+00 W.B.U.S.40
8 12" to 18"

PROFILES
W.B.U.S.40 See Sheet No 44
E.B.U.S.40 See Sheet No 41

249+00 to 261+00 W.B.U.S.40
251+00 to 262+75 E.B.U.S.40

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

36
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

TREES TO BE REMOVED 261+00 to 269+50 W.B.U.S.40	
185	12" to 18"
70	18" to 24"
32	24" to 30"

NOTE: Marker will be furnished and erected on the left by the State before acceptance of this improvement.

TOM HOWARD

L A & R/W

Const. Limits

I-70-7(17) 180

269+50 W.B.U.S. 40
END GRADING

Begin taper 262+00

End taper 265+00

N 69°38'26" E

261 262 263 265 266 267 268 WEST BOUND U.S. 40 269 270 271 272

℄ Survey & Construction

N 75°17'06" E

PT 270+36.03

273 N 75°17'06" E

Const. Limits

N 75°17'06" E Const. Limits

N 49°35'51" E

See Sheet No 35

261+00 See Sheet No 35

273+50 See Sheet No 37

268 269 270 ℄ Survey & Construction 271 272 273 274

EAST BOUND U.S. 40

264 265 266 267

263 26 RAMP "E" 27 28

25

262+75

ACC. 25+22.06

PT 28+24.06 Ramp "E"
267+00 E.B.U.S.40 37'Rt.

271+55 E.B.U.S. 40
END PROJECT & WORK

272+67.75 Main ℄
PT 270+36.15 E.B.
POT 272+66.54 W.B.

L A & R/W

L A & R/W

L A & R/W

TOM HOWARD

JOHN E. TUCKER
ELVA L. TUCKER

Adjacent Typical Section;
The future Typical Section is the same as Typical Section "C" for West Bound and Typical Section "E" for East Bound.

PROFILES	
W.B.U.S.40	See Sheet No 44
E.B.U.S.40	See Sheet No 41

261+00 to 273+50 W.B. U.S. 40

262+75 to 273+50 E.B. U.S. 40

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

37
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

TOM HOWARD

Channel Easement

LAERIW

LAERIW

CRAIG O. WARNE
DOROTHY WARNE

I-70-7(132)181

273+50 See Sheet No 36

274 275 276 277 N 75°17'06"E 278 279 280 281 282 283 284 285 286 287 288 289

℄ Survey & Construction U.S. 40

End Taper
277+87.62

GUE-40-10.52 PROJECT

LAERIW

LAERIW

CRAIG O. WARNE
DOROTHY WARNE

TOM HOWARD

PROFILES

W.B. U.S. 40	See Sheet No 44 & 45
E.B. U.S. 40	See Sheet No 41 & 42

273+50 to 289+00 U.S. 40

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

38
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

TREES TO BE REMOVED
31+00 to 43+00 WILLS CREEK CHANNEL RELOC. Nº1

108	12" to 18"
26	18" to 24"
15	24" to 30"
3	36" to 42"

CHANNEL RELOC. Nº1
PROPOSED CURVE DATA
P.I. = 33+55.84
Δ = 28°00'00"
D = 6°00'00"
R = 954.93'
L = 466.67'
T = 238.09'
E = 29.23'

31+00 Begin work & jumped rock channel protection

P.C. 31+17.75

P.T. 35+84.42

N 25°31'31" W

℄ Survey & Construction

WILLS CREEK CHANNEL RELOC. Nº1

Channel Easement

Const. Limits

43+00 See Sheet Nº 33

I-10 858 Cu.Yds Dumped Rock Channel Protection

36+00 End Dumped Rock Channel Protection

WILLS CREEK CHANNEL RELOCATION Nº 1
34' Bottom Width
2:1 Side Slopes
Dumped Rock Shall be 18" thick and extend 18" below Channel Flow Line.

TREES TO BE REMOVED
38+50 to 42+00 T.R.435 RELOC.

10	12" to 18"
15	18" to 24"
5	24" to 30"

ESTIMATED QUANTITIES TO GENERAL SUMMARY

REF. Nº	B-19 Agg. Base	I-10 D.R. Chan	L-10 Sod	I-1 C.I.F.I. 12"	I-16 Abnd. M.H.
UNIT	C.Y.	C.Y.	S.Y.	L.F.	Ea.
1-D		858			
2-D			428		
1-A	15			50	
1-R					1
TOTAL	15	858	428	50	1

Note:
Fill Existing Channel to Elev. 786.0 & Slope to drain to an Outlet

MATT SLIFKO
SUSIE SLIFKO

Cross hatched area to be filled using channel excavation

38+50 to 42+00
L-10 428 Sq Yds Sodding

2-D

40+00
8' Lt. to 54' Lt.
I-1 50' C.I.F.I. Pipe
B-19 15 Cu. Yds. (6" Thickness)

1-A

42+25 40' Lt.
℄ 788.05

T.R. 435 RELOC.
℄ Survey & Construction

42+00 Match Line See Sheet Nº 33

38+50 Match Line See Sheet Nº 39

Ex. 12" V.S.P. (Abandoned)

Ex. M.H.

Ml. 23 Rt. 26

Note:
Fill Existing Channel to Elev. 786.0 & Slope to drain to Outlet

1-R I-16 1-Manhole Abandoned

39+15 40' Lt.
℄ 784.15

Work Agreement

Const. Limits

Ex. Dirt Field Dr.

HILLIS ALBRIGHT
MILTON W. ALBRIGHT

MATT SLIFKO
SUSIE SLIFKO

WILLS CREEK

Ex. 12" V.S.P.

Ex. M.H.

R/W

L/A

PROFILES

WILLS CREEK CHANNEL RELOC. Nº1	See Sheet Nº 64
T.R. 435 RELOC.	See Sheet Nº 63

31+00 to 43+00 WILLS CREEK CHANNEL RELOC. Nº 1
38+50 to 42+00 T.R. 435 RELOC.

DIST.	STATE	PROJECT		
2	OHIO			

39
230

GUERNSEY COUNTY
GUE-40-8.93
PART 1

804.65 805.63 806.97 808.81 808.49 810.77 812.28 813.58 814.61 815.59 816.25 816.76 817.17 817.77 818.20 818.38 818.24 818.96 819.29 819.59 819.89 820.18 820.45 820.71 820.96 821.19 821.42 821.62 821.82 822.00 822.16 822.32 822.46 822.59 822.70 822.80 822.89 822.96 823.03 823.07 823.11 823.13 823.14 823.13 823.11 823.08 823.04 822.99 822.91 822.82 822.73 822.62 822.49 822.35 822.20 822.04 821.86 821.67 821.46 821.25 821.02 820.77 820.52 820.28 819.96 819.62 819.35 819.03 818.69 818.34 817.99 817.61 817.20 816.87 816.50 816.13 815.76 815.39 814.99 814.65 814.28 813.91 813.54 813.17 812.80 812.43 812.06 811.69 811.32 810.95 810.57 810.21 809.84 809.47 809.10 808.75 808.43 808.14 807.89 807.69 807.63 807.83

840 830 820 810 800 790 780 770 760

P.V.I. 181+00
Elev. 799.25
V.C.=1000'

+1.28%

BEGIN PROJECT & WORK; Profile Grade/Equation STA. 195+00
2.5' R.B. U.S. 40 Base-Profile grade is left pavt. edge - Elev. 817.17
2.8' U.S. 40 Median-Profile grade is left pavt. - Elev. 817.36

1:1

60°

℄ 783.29

℄ 781.90

℄ Penn. R.R.

P.V.I. 203+00 Elev. 827.60
V.C.=1300'

-1.03%

P.V.I. 219+50
Elev. 803.18
V.C.=800'

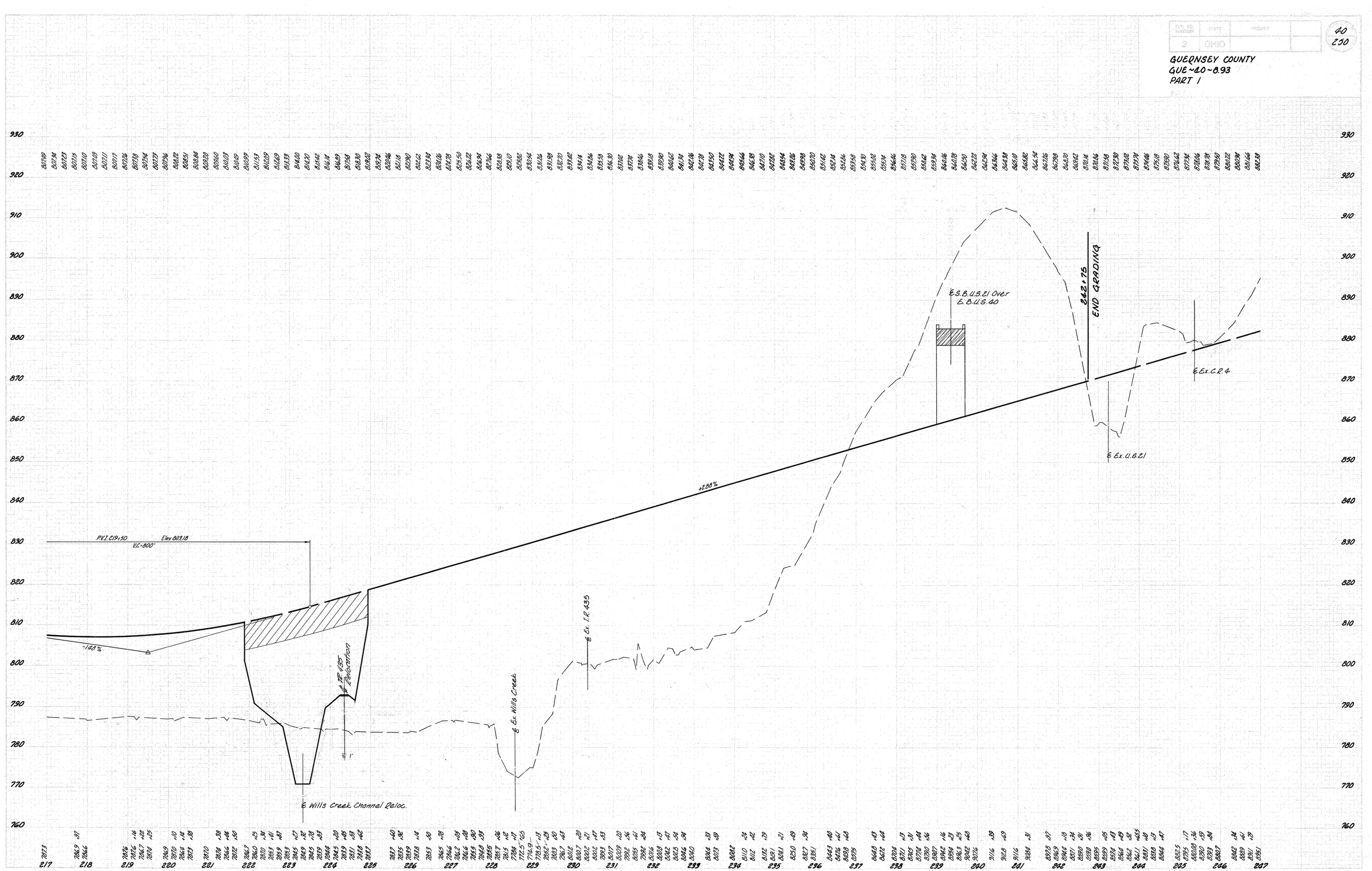
185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217

185+00 to 217+00 E.B. & W.B. U.S. 40 PROFILE

FED. ROAD DIVISION	STATE	PROJECT		
2	OHIO			

40
230

GUERNSEY COUNTY
GUE-40-8.93
PART 1



217+00 to 247+00 E.B. U.S. 40 PROFILE

SHEET NO.	SHEETS	
2	OHIO	

61
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

+2.88%

N.B. U.S. 22 under-E.B. U.S. 40

P.V.I. 281+39.21
Elev. 907.83
V.C.=2700'

270+20 ℄ E.B. U.S. 40 Back

270+42.22 ℄ E.B. U.S. 40 Ahead

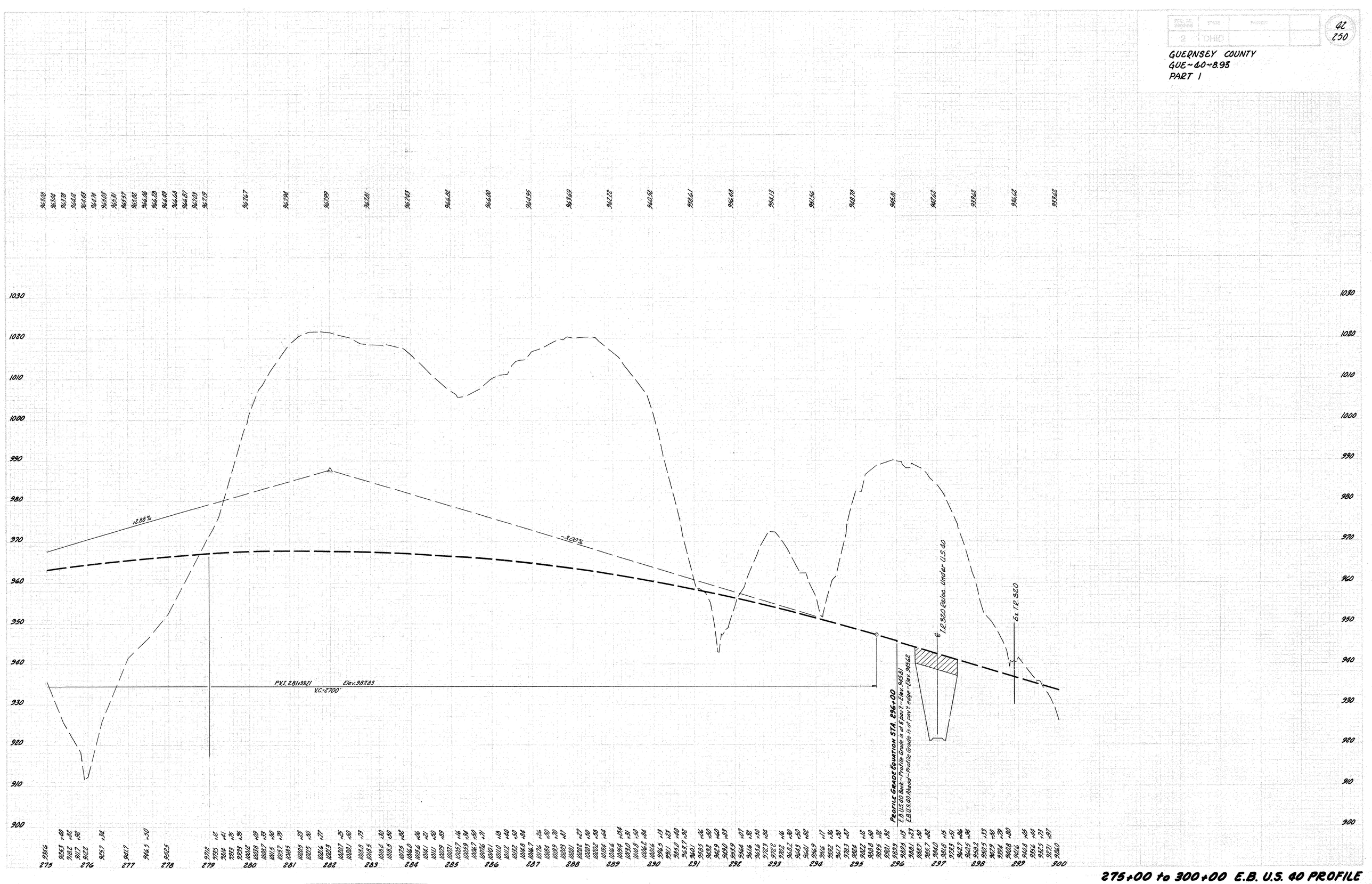
℄ Median Ahead

247+00 to 275+00 E.B. U.S. 40 PROFILE

FED. ROAD DIV.	STATE	PROJECT	
2	OHIO		

42
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

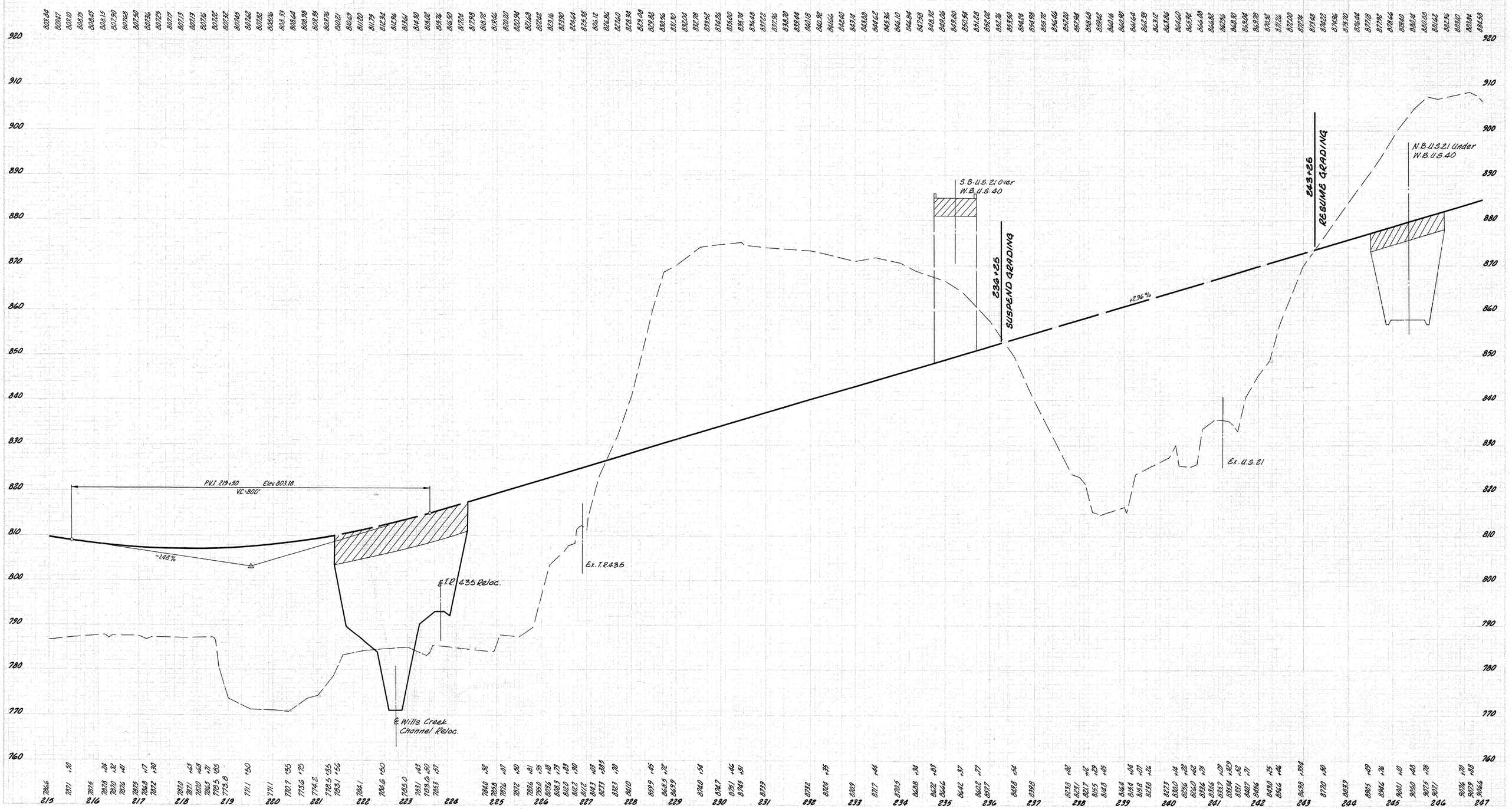


275+00 to 300+00 E.B. U.S. 40 PROFILE

DESIGN SERVICE	STATE			
2	OHIO			

13
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1



215+00 to 247+00 W.B. U.S. 40 PROFILE

GUERNSEY COUNTY
GUE-40-8.93
PART 1

RESUMS GRADING
258+75

SUSPEND GRADING
251+00

+2.96%

END GRADING
269+50

272+26.34 W.B. U.S.40 Back

272+67.15 W.B. U.S.40 Ahead

P.V.I 282+10.36
Elev. 987.38
V.C.=2700'

Elev. 987.38

272+26.34 W.B. U.S.40 Back

247+00 to 278+00 W.B. U.S. 40 PROFILE

SHEET NO.	STATE	PROJECT	
2	OHIO		

45
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

946.83 946.67 946.87 946.96 946.24 946.80 947.18 947.27 947.17 946.85 946.91 946.55 946.56 943.36 941.94 940.29 938.83 936.30 936.01 935.91 933.78 935.81 941.63 939.62 938.62 939.42

1030
1020
1010
1000
990
980
970
960
950
940
930
920
910
900

P.V.I. 282+18.36 Elev. 987.38
V.C.=2700'

PROFILE GRADE EQUATION STA. 296+00
W.B. U.S. 40 Back - Profile Grade is at ℄ pav't - Elev. 940.81
W.B. U.S. 40 Ahead - Profile Grade is at pav't edge - Elev. 935.62

℄ T.R. 320 Reloc under U.S. 40

℄ T.R. 320

278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300

278+00 to 300+00 W.B. U.S. 40 PROFILE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

46/250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

KENNETH A. GADD

DONALD A. KRANZ, ET AL.

E. JOSEPH DYER
M. IRENE DYER

ERNEST E. TODD
BERNICE O. TODD

JOHN E. TUCKER
ELVA L. TUCKER

HERBERT L. MORGAN
VIOLET MORGAN

RAYMOND VALENTINE
VEER VALENTINE

DEWEY E. VALENTINE
GLENNA RUTH VALENTINE

JOHN E. TUCKER
ELVA L. TUCKER

CHARLES E. STEVENS
BETTY L. STEVENS

HARRY IRVIN GRAHAM
DORIS LEOTA GRAHAM

See Sheet No. 47

See Sheet No. 47

Const. Limits

LA-Ex. R/W

Ex. R/W

Ex. U.S. 21

Ex. Co. Rd. 4

Locust Trees

1-S-Fr. Res.

Ex. Conc. Walk

Fr. Shed

Ex. Gravel Dr.

Fr. Gar.

1-S-Fr. Res.

Conc. Blk.

Ex. Conc. Walk

Ex. Gravel Dr.

F. Barn

Ex. C.M.P.

Ex. Gravel Dr.

1½-S. Fr. Res.

1-S-Fr. Res.

Metal Shed

Toilet

F. Gar.

Ex. Gravel Dr.

RAMP "B"

RAMP "D"

RAMP "E"

RAMP "F"

N27°42'36"W

N.B.U.S.21

S.B.U.S.21

N.B. Ramp "E"

N.B. Ramp "F"

S.B. Ramp "D"

S.B. Ramp "E"

N.B. Ramp "D"

N.B. Ramp "F"

N

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

47
250

GUERNSEY COUNTY
GUE-40-0.93
PART I

445+00 See Sheet No 34

KENNETH A. GADD

RAMP "H"

EAST BOUND U.S. 40

Survey & Construction

441+50 S.B. U.S. 21
SUSPEND GRADING

S 69° 25' 07" E

N 69° 35' 51" E

DAVID JOSEPH McMANAWAY
BERTHA O. McMANAWAY

437+50 See Sheet No 34

RAMP "D"

HERBERT L. MORGAN
VIOLET MORGAN

5+50 Ramp D
435+50 N.B.U.S.21, 24' Lt

23+50 RAMP "F"
BEGIN GRADING

JOHN DISS
DOROTHY DISS

434+00 N.B.U.S.21
BEGIN GRADING

RAMP "G"

See Sheet No 59
For Slope Lines

TREES TO BE REMOVED
432+00 to 441+50 S.B.U.S.21
5, 7
6
4
12" to 18"
18" to 24"
24" to 30"
30" to 36"

TREES TO BE REMOVED
434+00 to 437+50 N.B.U.S.21
13
1
12" to 18"
18" to 24"

Begin Taper
436+25

SOUTH BOUND U.S.21

NORTH BOUND U.S.21

End Taper
433+00

Begin Taper
432+00

EDWARD D. PERKINS

JOHN E. TUCKER
ELVA L. TUCKER

DONALD A. KENNY, ET AL

KENNETH A. GADD

E. JOSEPH DYER
M. IRENE DYER

DEWEY R. VALENTINE
GLENNA RUTH VALENTINE

RAYMOND VALENTINE
VERA VALENTINE

RAMP "E"

RAMP "F"

Survey & Construction

Const. Limits

LA-Ex. R/W

Ex. R/W

Ex. U.S. 21

Ex. Conc. Pav't.

Ex. Gravel Dr.

Ex. Res. Found.

Shed

F. Shed

F. Barn

1-S-Fr. Res.

Metal Gar.

Conc. Wall

Ex. Blk. Gar.

PROFILES
N.B.U.S.21 See Sheet No 52
S.B.U.S.21 See Sheet No 55

450+00 See Sheet No 46

432+00 See Sheet No 46

432+00 to 443+00 S.B.U.S.21

430+00 to 437+50 N.B.U.S.21

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

18
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

TREE TO BE REMOVED
446+00 to 452+50 N.B.U.S.21
6 12" to 18"

459+00 See Sheet No 49

454+00 See Sheet No 49

84+00 See Sheet 49

TOM HOWARD

HILLIS ALBRIGHT
MILTON W. ALBRIGHT

452+50 N.B.U.S.21
SUSPEND GRADING

SARAH E. VANCE

BERTHA MAY FOGLE, ETAL

DAVID JOSEPH McMANAWAY
BERTHA O. McMANAWAY

446+00 See Sheet No 34

451+50 See Sheet No 34

End Taper 456+00

Begin Taper 455+00

End Taper 452+00

P.C. 1+99.39 Ramp "A"
452+00.00 S.B. U.S. 21, Rt.

P.C. 2+37.08

P.C. 1+52.60

P.T. 1+52.60

S.C. 450+02.60

S.C. 447+52.60

RAMP "A"

RAMP "B"

RAMP "C"

RAMP "D"

SOUTH BOUND U.S. 21

NORTH BOUND U.S. 21

WEST BOUND U.S. 40

Survey & Construction

Const. Limits

LA & RW

Ex. U.S. 21

Ex. Gravel Dr.

Ex. Drive Dr.

F. Gar.

F. Shed

1-3-Fr. Res.

See Sheet No 58 for Slope Lines

PROFILES

N.B.U.S.21	See Sheet No 53
S.B.U.S.21	See Sheet No 56

N61°56'08"E

N69°38'24"E

N42°51'W

451+50 to 459+00 S.B.U.S.21

446+00 to 454+00 N.B.U.S.21

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

49
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

STRUCTURE Nº GUE-21-0913
See Sheet Nº 211 for Quantities.

NOTE: Embankment only to be constructed from Sta. 73+15 to 81+75 T.R.435 Relocation.

FLOYD FILLMAN, JR.

Channel Easement
Const. Limits
1:2
50'
WILLS CREEK
Ex. Channel to be Filled with Part 2
Work Agreement
Begin Wills Creek Channel Reloc. Nº 2 63+00
66+00 See Sheet Nº 50
72+80 T.R. 435 Reloc. 1968. 1:1.0 Abandon Ex. M.H. & Bulkhead Ex. 18" to South
1:2
Ex. Water Line
75+00 See Sheet Nº 50
468+00 See Sheet Nº 50
462+00 See Sheet Nº 50

T.R. 435 RELOC. CURVE DATA
P.I. 72+28.22
Δ = 14°48'51"
D = 2°00'
R = 2864.79'
T = 372.44'
L = 740.71'
E = 24.11'

Ex. M.H.
Valve Box
Ex. Dwl.
Level 811.5
Level 820.5
THE CITY OF CAMBRIDGE L.A.
Ex. 24" Intake
14" Elder
16" Maple
F. Toilet
Ex. Pump Sta. Bldg.
Ex. M.H.
Ex. 24" Abandon
Survey & Construction
Const. Limits
Ex. R/W
Ex. L.A.
Future 72" Culvert & Part 2
460+50 N.B.U.S. 21 RESUME GRADING
RESUME 466+00
Ex. 16" Water Line
Ex. 36" C.M.P.
Ex. 72" Sec. Plate Pipe Water Line Conduit
Ex. 84" Water Line
S.B.U.S.21 GRADING
Ex. Typ. Rd. 435
Ex. G.R.
Ex. Gravel Dr.
Ex. 6" Pines
Ex. Conc.
Ex. 12" C.S.P.
Abandon Ex. 12" C.S.P.
Old Gas Line
14" Apple
Ex. Gravel Dr.
Ex. Barn
Ex. Shed
Ex. Drive
Ex. Trees
Ex. Tank
Ex. Shed
Ex. Barn
Ex. Well
Ex. Shed
5 Trees 6"-9" 1-14"
Ex. Trees
Ex. Shed
Ex. Shed
Ex. Shed

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

50
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

Prop. 24" Inserting Valve & Manhole Locate 10' West of connection. Concrete Thrust Block to be located West of the Valve. See details on Sheet No. 15

0+38 H.P.I. at Connection 24"-90° M.J.-P.E. Bend See Connection Detail on Sheet No. 15 Wet C.L. ± 105.70' Lt. Channel Reloc.

0+60 ± = 0+32.(Temp. W.M.) H.P.I. & 24"x24"x24" M.J.-P.E.-M.J. Tee, Branch S.E. 24" M.J. Plug to be placed in N.E. end. See Tee backer detail on Sheet No. 15

Dumped Rock Channel Protection. ~ 30" Thickness See Sheet No. 14

72+00 Wills Creek Channel Reloc. N°2 = 472+00 S.B.U.S.21

WILLS CREEK RELOC. N°2 CURVE DATA
P.I. = 75+65.00
Δ = 18°00'00"
D = 6°00'00"
R = 954.93'
L = 300.00'
T = 151.25'
E = 11.90'

End Wills Creek Channel Relocation N°2 77+00

4+03 H.P.I. Def. 45° Rt. ~ Use 24"-45° M.J. - M.J. Bend. 24" M.J. Plug in End.

Channel Easement

Future 24" W. Main

Const. Limits

82° for To Curve

Pool Elev. 779.0

Prop. 24" W.M. See Sheet No. 13 for Profile.

Prop. 24" W.M. See Sheet No. 13 for Profile.

1+00 (Temp. W.M.) = 68+19 Channel Reloc.

71+30 & Dam See Sheet No. 14 for Details.

4+65 Water Main 71+81.4 Channel Reloc.

1+90.5 (Temp. W.M.) H.P.I. at Connection. 24"-90° M.J.-P.E. Bend See Sheet No. 15 for Connection Detail.

WILLIAM A. CARRICK
MARGARET K. CARRICK

1+68 (Temp. W.M.) H.P.I. 24"-90° M.J.-P.E. Bend

5+30 end of Prop. 24" Main 24" M.J. Plug in end.

& Pump Station Dr.

Pump Sta.

WILLS CREEK

Fill Ex. Channel to El. 783.0 & Slope to drain to an Outlet

Const. Limits

MARY E. WILSON

1-D

66+00 to 77+00 Channel Reloc. N°2 I-10 2,614 C.Y. D.R. Channel Protection. (18" Thickness, except as noted.)

T.R. 435 RELOC. CURVE DATA
P.I. 81+74.59
Δ = 0°20'02"
No Curve
100' Lt. 475+22 S.B.U.S.21

3-D

79+25. 8' Lt. to 84' Lt. I-10 35 C.Y. D.R. Channel Protection (18" Thickness) 1' Vertical Height

2-D

I-10 39 C.Y. D.R. Channel Protection (18" Thickness) Provide outlet ditch with 2' bottom - 2:1 Side Slopes. Protect to 1'6" Vertical Height.

NOTE: Embankment only to be constructed from Sta. 73+15 to 81+75 T.R. 435 Reloc.

See Sheet No. 13 for water line quantities

WILLS CREEK CHANNEL RELOC. N°2
50' Bottom Width
2:1 Side Slopes
Dumped Rock shall be 18" thick & extend 18" below channel flow line except as noted.

ESTIMATED QUANTITIES TO GENERAL SUMMARY

REF. N°	I-10 D.R. Chan.			
UNITS	C.Y.			
1-D	2614			
2-D	39			
3-D	35			
TOTAL	2688			

PROFILES

N.B.U.S.21	See Sheet N°53
S.B.U.S.21	See Sheet N°54
T.R.435 RELOC.	See Sheet N°63
WILLS CREEK CHANNEL RELOC. N°2	See Sheet N°64

TREES TO BE REMOVED
462+00 to 464+42 N.B.U.S.21
468+00 to 475+00 S.B.U.S.21
75+00 to 81+75 T.R.435 RELOC.
66+00 to 77+00 WILLS CREEK CHANNEL RELOC. N°2

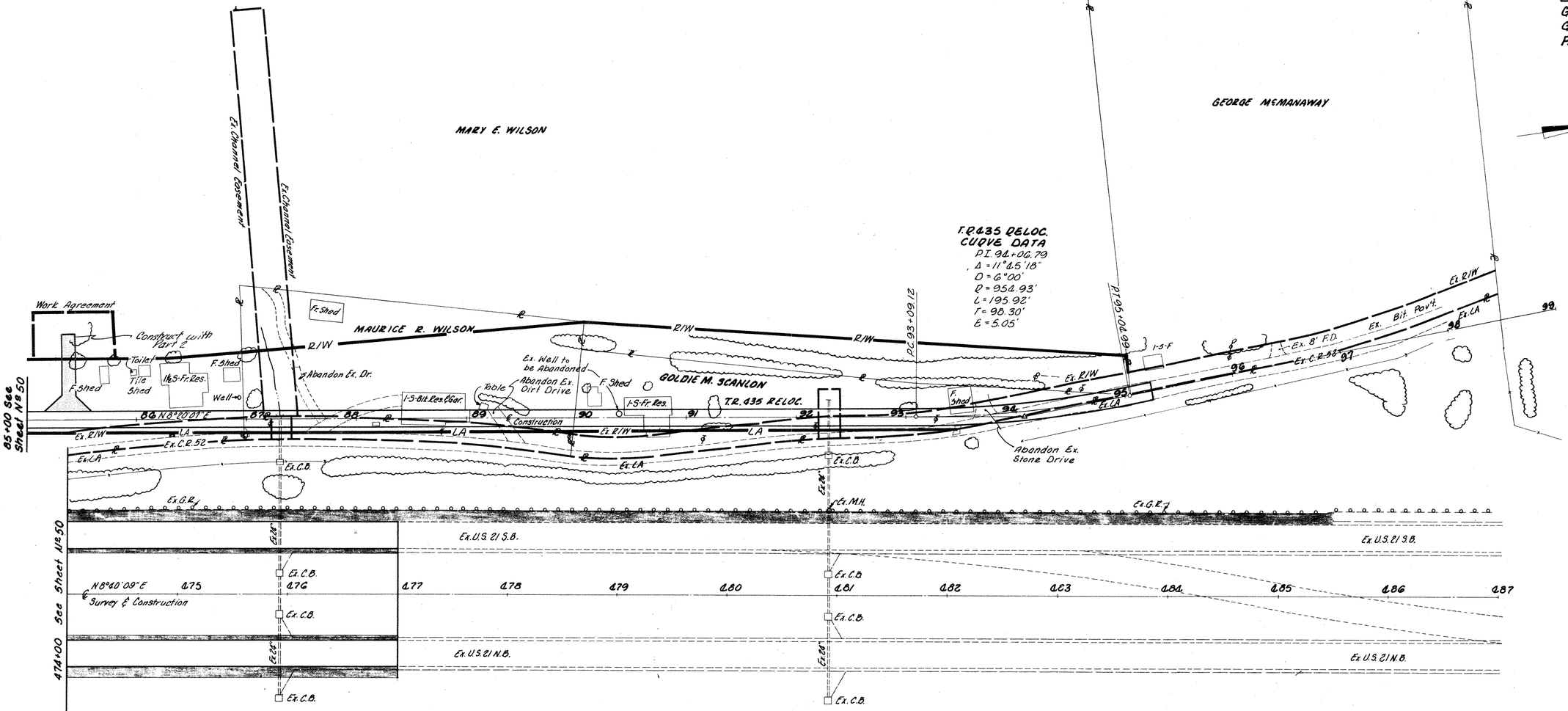
111	12" to 18"
29	18" to 24"
23	24" to 30"
10	30" to 36"
1	36" to 42"
1	Over 48"

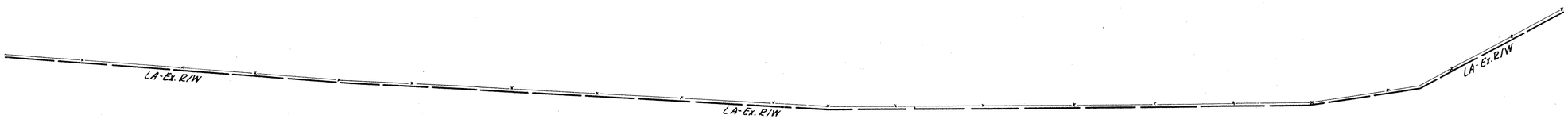
468+00 S.B to 474+00 U.S.21
462+00 N.B. to 474+00 U.S.21

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

51
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1





CHARLES F. McMANAWAY
MYRTLE McMANAWAY

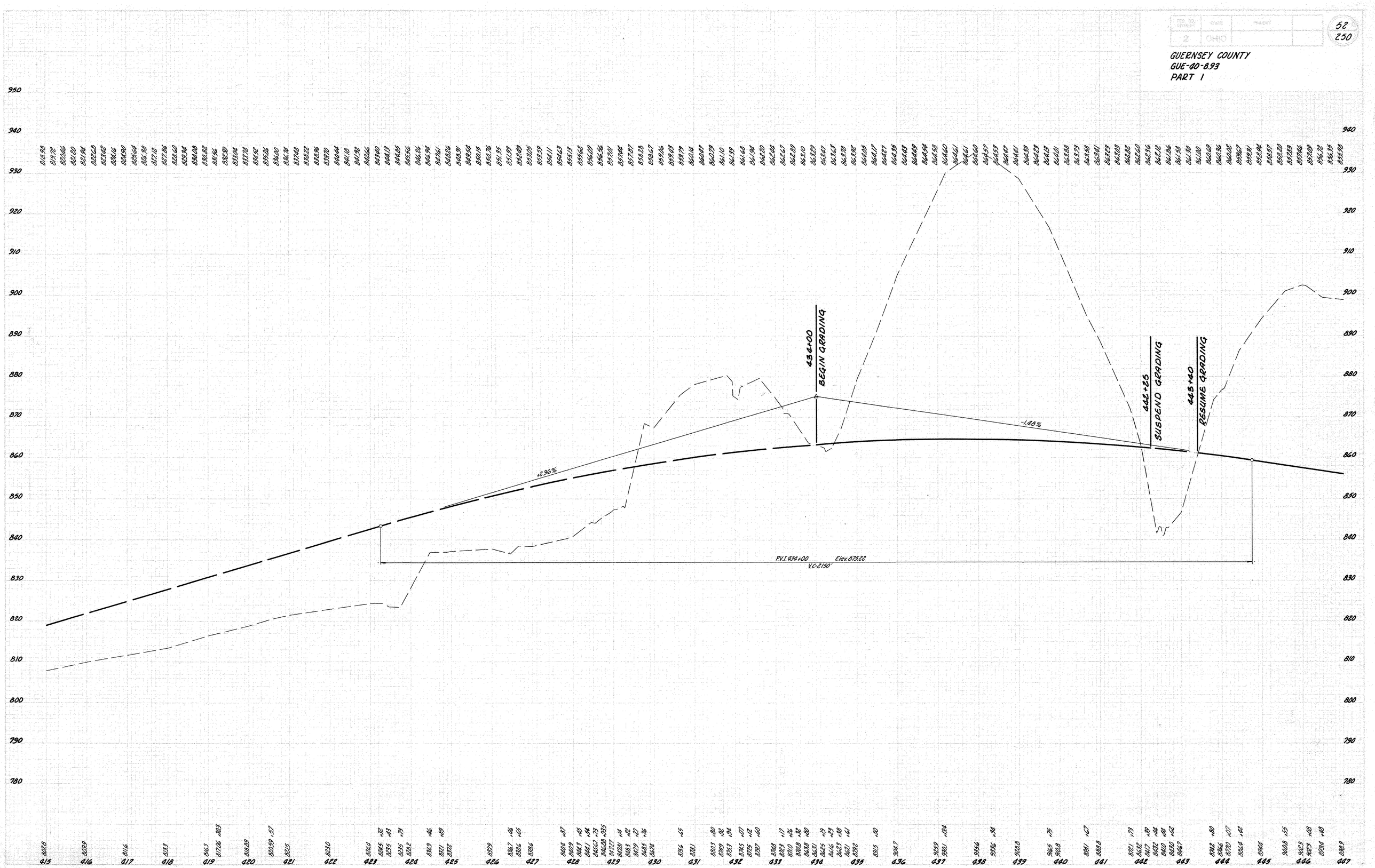
PROFILE
U.S. 21 See Sheet No 54

474+00 to 487+00 U.S. 21

FED. ROAD DIV.	STATE	PROJECT		
2	OHIO			

52
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1



415+00 to 447+00 N.B. U.S. 21 PROFILE

FED. AID PROJECT	STATE	PROJECT		
2	OHIO			

GUERNSEY COUNTY
GUE-40-8.93
PART 1

855.98 855.61 855.24 854.87 854.50 854.13 853.76 853.39 853.02 852.65 852.28 851.91 851.54 851.17 850.80 850.43 850.06 849.69 849.32 848.95 848.58 848.21 847.84 847.47 847.10 846.73 846.36 845.99 845.62 845.25 844.88 844.51 844.14 843.77 843.40 843.03 842.66 842.29 841.92 841.55 841.18 840.81 840.44 840.07 839.70 839.33 838.96 838.59 838.22 837.85 837.48 837.11 836.74 836.37 836.00 835.63 835.26 834.89 834.52 834.15 833.78 833.42 833.05 832.68 832.31 831.94 831.57 831.20 830.84 830.47 830.10 829.73 829.36 828.99 828.62 828.25 827.88 827.51 827.14 826.77 826.40 826.03 825.66 825.29 824.92 824.55 824.18 823.81 823.44 823.07 822.70 822.33 821.96 821.59 821.22 820.85 820.48 820.11 819.74 819.37 819.00 818.63 818.26 817.89 817.52 817.15 816.78 816.41 816.04 815.67 815.30 814.93 814.56 814.19 813.82 813.45 813.08 812.71 812.34 811.97 811.60 811.23 810.86 810.49 810.12 809.75 809.38 809.01 808.64 808.27 807.90 807.53 807.16 806.79 806.42 806.05 805.68 805.31 804.94 804.57 804.20 803.83 803.46 803.09 802.72 802.35 801.98 801.61 801.24 800.87 800.50 800.13 799.76 799.39 799.02 798.65 798.28 797.91 797.54 797.17 796.80 796.43 796.06 795.69 795.32 794.95 794.58 794.21 793.84 793.47 793.10 792.73 792.36 791.99 791.62 791.25 790.88 790.51 790.14 789.77 789.40 789.03 788.66 788.29 787.92 787.55 787.18 786.81 786.44 786.07 785.70 785.33 784.96 784.59 784.22 783.85 783.48 783.11 782.74 782.37 782.00 781.63 781.26 780.89 780.52 780.15 779.78 779.41 779.04 778.67 778.30 777.93 777.56 777.19 776.82 776.45 776.08 775.71 775.34 774.97 774.60 774.23 773.86 773.49 773.12 772.75 772.38 772.01 771.64 771.27 770.90 770.53 770.16 769.79 769.42 769.05 768.68 768.31 767.94 767.57 767.20 766.83 766.46 766.09 765.72 765.35 764.98 764.61 764.24 763.87 763.50 763.13 762.76 762.39 762.02 761.65 761.28 760.91 760.54 760.17 759.80 759.43 759.06 758.69 758.32 757.95 757.58 757.21 756.84 756.47 756.10 755.73 755.36 754.99 754.62 754.25 753.88 753.51 753.14 752.77 752.40 752.03 751.66 751.29 750.92 750.55 750.18 749.81 749.44 749.07 748.70 748.33 747.96 747.59 747.22 746.85 746.48 746.11 745.74 745.37 745.00 744.63 744.26 743.89 743.52 743.15 742.78 742.41 742.04 741.67 741.30 740.93 740.56 740.19 739.82 739.45 739.08 738.71 738.34 737.97 737.60 737.23 736.86 736.49 736.12 735.75 735.38 735.01 734.64 734.27 733.90 733.53 733.16 732.79 732.42 732.05 731.68 731.31 730.94 730.57 730.20 729.83 729.46 729.09 728.72 728.35 727.98 727.61 727.24 726.87 726.50 726.13 725.76 725.39 725.02 724.65 724.28 723.91 723.54 723.17 722.80 722.43 722.06 721.69 721.32 720.95 720.58 720.21 719.84 719.47 719.10 718.73 718.36 717.99 717.62 717.25 716.88 716.51 716.14 715.77 715.40 715.03 714.66 714.29 713.92 713.55 713.18 712.81 712.44 712.07 711.70 711.33 710.96 710.59 710.22 709.85 709.48 709.11 708.74 708.37 708.00 707.63 707.26 706.89 706.52 706.15 705.78 705.41 705.04 704.67 704.30 703.93 703.56 703.19 702.82 702.45 702.08 701.71 701.34 700.97 700.60 700.23 699.86 699.49 699.12 698.75 698.38 698.01 697.64 697.27 696.90 696.53 696.16 695.79 695.42 695.05 694.68 694.31 693.94 693.57 693.20 692.83 692.46 692.09 691.72 691.35 690.98 690.61 690.24 689.87 689.50 689.13 688.76 688.39 688.02 687.65 687.28 686.91 686.54 686.17 685.80 685.43 685.06 684.69 684.32 683.95 683.58 683.21 682.84 682.47 682.10 681.73 681.36 680.99 680.62 680.25 679.88 679.51 679.14 678.77 678.40 678.03 677.66 677.29 676.92 676.55 676.18 675.81 675.44 675.07 674.70 674.33 673.96 673.59 673.22 672.85 672.48 672.11 671.74 671.37 671.00 670.63 670.26 669.89 669.52 669.15 668.78 668.41 668.04 667.67 667.30 666.93 666.56 666.19 665.82 665.45 665.08 664.71 664.34 663.97 663.60 663.23 662.86 662.49 662.12 661.75 661.38 661.01 660.64 660.27 659.90 659.53 659.16 658.79 658.42 658.05 657.68 657.31 656.94 656.57 656.20 655.83 655.46 655.09 654.72 654.35 653.98 653.61 653.24 652.87 652.50 652.13 651.76 651.39 651.02 650.65 650.28 649.91 649.54 649.17 648.80 648.43 648.06 647.69 647.32 646.95 646.58 646.21 645.84 645.47 645.10 644.73 644.36 643.99 643.62 643.25 642.88 642.51 642.14 641.77 641.40 641.03 640.66 640.29 639.92 639.55 639.18 638.81 638.44 638.07 637.70 637.33 636.96 636.59 636.22 635.85 635.48 635.11 634.74 634.37 634.00 633.63 633.26 632.89 632.52 632.15 631.78 631.41 631.04 630.67 630.30 629.93 629.56 629.19 628.82 628.45 628.08 627.71 627.34 626.97 626.60 626.23 625.86 625.49 625.12 624.75 624.38 624.01 623.64 623.27 622.90 622.53 622.16 621.79 621.42 621.05 620.68 620.31 619.94 619.57 619.20 618.83 618.46 618.09 617.72 617.35 616.98 616.61 616.24 615.87 615.50 615.13 614.76 614.39 614.02 613.65 613.28 612.91 612.54 612.17 611.80 611.43 611.06 610.69 610.32 609.95 609.58 609.21 608.84 608.47 608.10 607.73 607.36 606.99 606.62 606.25 605.88 605.51 605.14 604.77 604.40 604.03 603.66 603.29 602.92 602.55 602.18 601.81 601.44 601.07 600.70 600.33 599.96 599.59 599.22 598.85 598.48 598.11 597.74 597.37 597.00 596.63 596.26 595.89 595.52 595.15 594.78 594.41 594.04 593.67 593.30 592.93 592.56 592.19 591.82 591.45 591.08 590.71 590.34 589.97 589.60 589.23 588.86 588.49 588.12 587.75 587.38 587.01 586.64 586.27 585.90 585.53 585.16 584.79 584.42 584.05 583.68 583.31 582.94 582.57 582.20 581.83 581.46 581.09 580.72 580.35 579.98 579.61 579.24 578.87 578.50 578.13 577.76 577.39 577.02 576.65 576.28 575.91 575.54 575.17 574.80 574.43 574.06 573.69 573.32 572.95 572.58 572.21 571.84 571.47 571.10 570.73 570.36 569.99 569.62 569.25 568.88 568.51 568.14 567.77 567.40 567.03 566.66 566.29 565.92 565.55 565.18 564.81 564.44 564.07 563.70 563.33 562.96 562.59 562.22 561.85 561.48 561.11 560.74 560.37 560.00 559.63 559.26 558.89 558.52 558.15 557.78 557.41 557.04 556.67 556.30 555.93 555.56 555.19 554.82 554.45 554.08 553.71 553.34 552.97 552.60 552.23 551.86 551.49 551.12 550.75 550.38 550.01 549.64 549.27 548.90 548.53 548.16 547.79 547.42 547.05 546.68 546.31 545.94 545.57 545.20 544.83 544.46 544.09 543.72 543.35 542.98 542.61 542.24 541.87 541.50 541.13 540.76 540.39 540.02 539.65 539.28 538.91 538.54 538.17 537.80 537.43 537.06 536.69 536.32 535.95 535.58 535.21 534.84 534.47 534.10 533.73 533.36 532.99 532.62 532.25 531.88 531.51 531.14 530.77 530.40 530.03 529.66 529.29 528.92 528.55 528.18 527.81 527.44 527.07 526.70 526.33 525.96 525.59 525.22 524.85 524.48 524.11 523.74 523.37 523.00 522.63 522.26 521.89 521.52 521.15 520.78 520.41 520.04 519.67 519.30 518.93 518.56 518.19 517.82 517.45 517.08 516.71 516.34 515.97 515.60 515.23 514.86 514.49 514.12 513.75 513.38 513.01 512.64 512.27

900 890 880 870 860 850 840 830 820 810 800 790 780 770 760

452+50 SUSPEND GRADING

420+50 RESUME GRADING

464+42 SUSPEND GRADING

-1.49%

+0.98%

P.V.I. 466+00 Elev. 827.06
V.C. = 800'

8701.60 G.N.B. U.S. 21 Base =
8734.10 ℄ Road

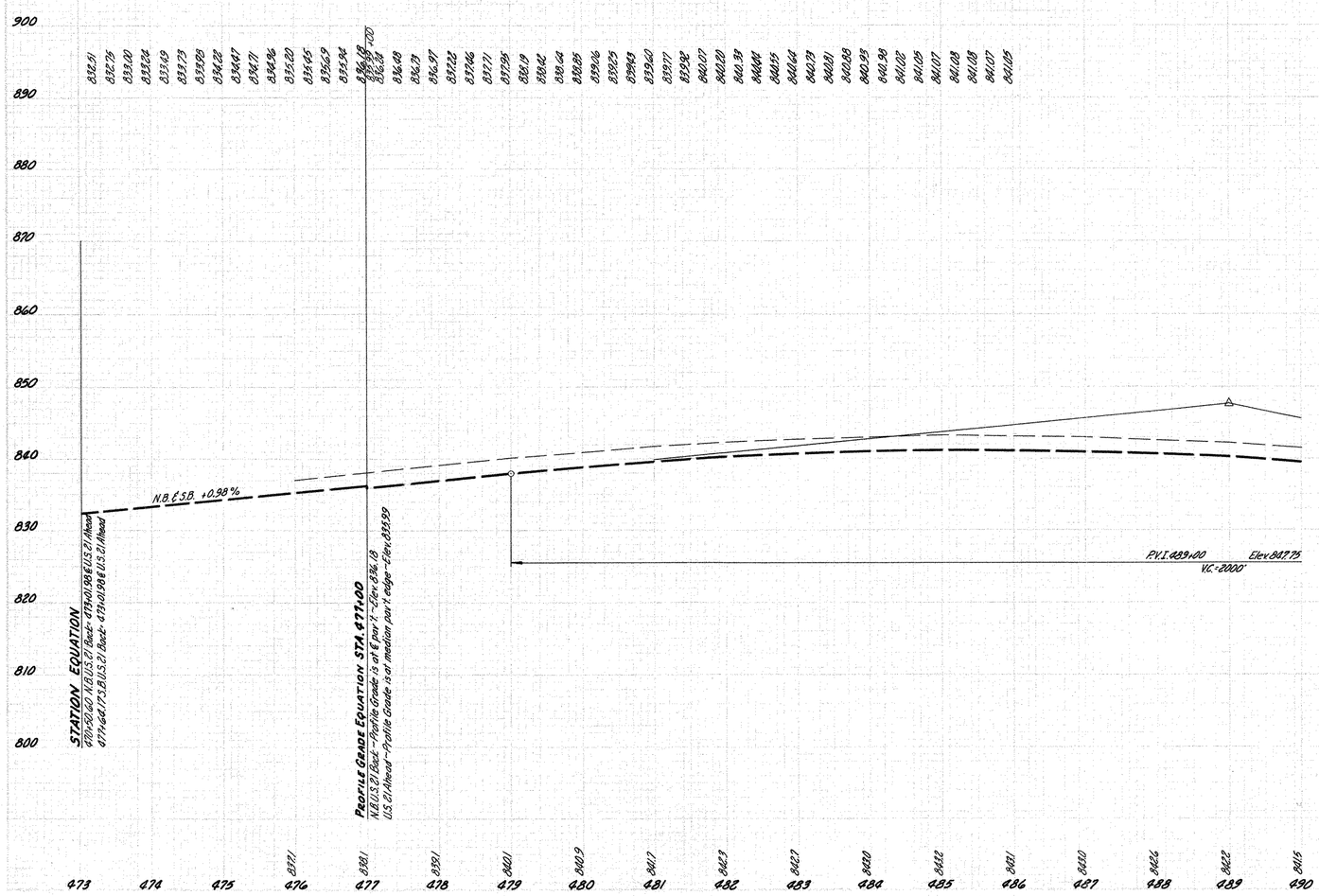
447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470

447+00 to 470+50.60 N.B. U.S. 21 PROFILE

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

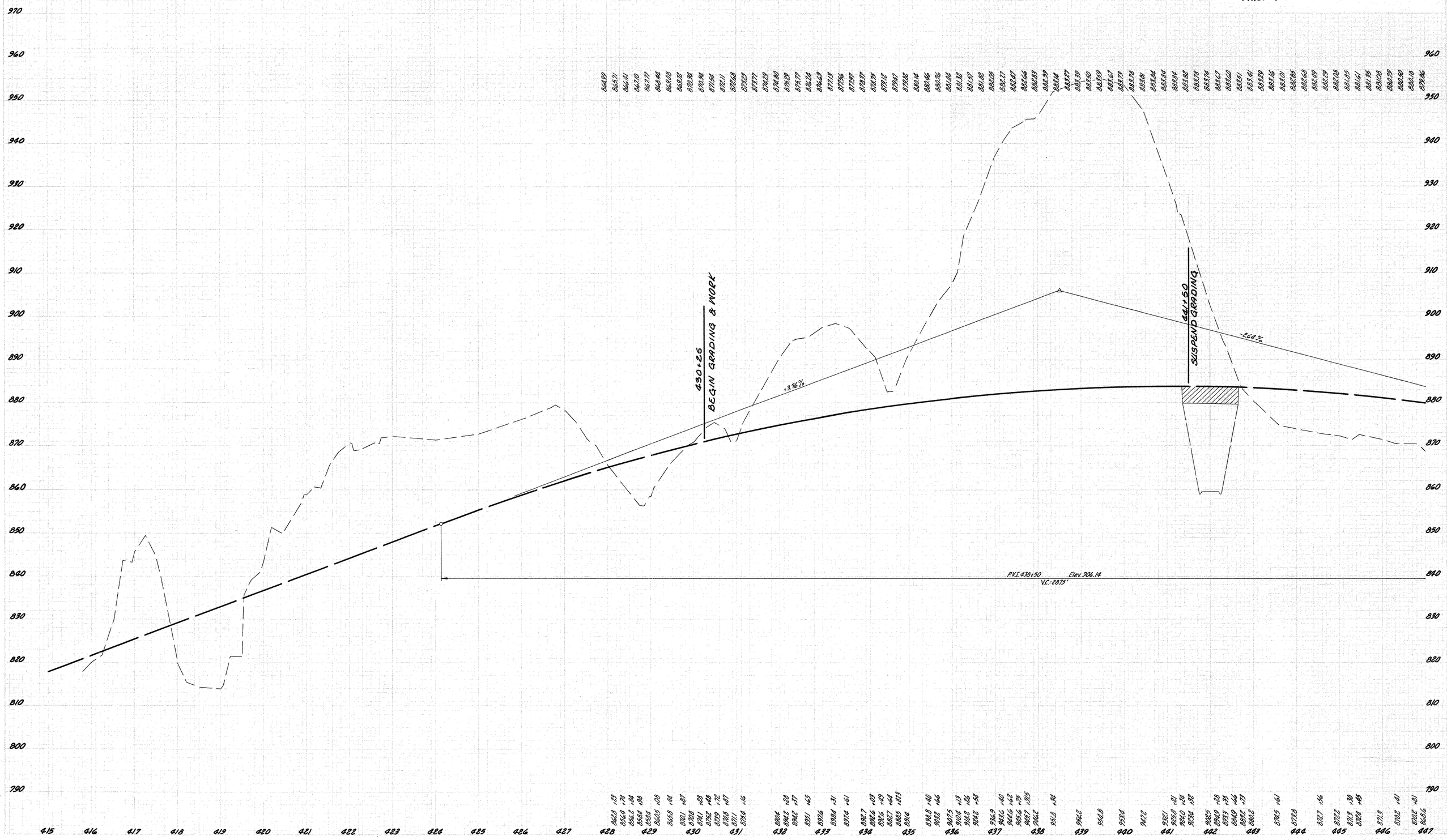
50
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1



STATE	DISTRICT	COUNTY		SHEET NO.	TOTAL SHEETS
	5	GUE		55	230

GUERNSEY COUNTY
GUE-40-8.93
PART 1



415+00 to 447+00 S.B. U.S. 21 PROFILE

FED. ROAD DIST. NO.	STATE	PROJECT		
2	OHIO			

56
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

P.V.I. 438+50 Elev. 906.14
V.C.=2875'

-2.66%

P.V.I. 469+50 Elev. 824.30
V.C.=800'

466+00
RESUME GRADING

℄ I.R. 322 Ext. Under S.B. U.S. 21

475+00
END GRADING

+0.98%

477+00 END WORK

Edge Ex. U.S. 21

477+64.17 S.B. U.S. 21 Back
479+01.98 ℄ U.S. 21 Ahead

Ex. C.P. 32

4:1

Proposed 90" Culvert

℄ 782.53 — ℄ 782.00

STRUCTURE Nº GUE 21-0913
STATION 466+00 S.B. U.S. 21
Prop. 90" Culvert
See Sheet Nº 211

447+00 to 477+64.17 S.B. U.S. 21 PROFILE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

57
250

GUERNSEY COUNTY
GUE-60-8.93
PART I

ESTIMATED QUANTITIES TO GENERAL SUMMARY

REF. Nº	B-10 Agg. Base	I-10 D.R. Chan.	I-15 G.R. 3Wire	I-16 Abdn Ex.M.H.	L-10 Sod			
UNIT	C.Y.	C.Y.	L.F.	Ea.	S.Y.			
1-D		1557						
2-D					1176			
1-A	8							
1-G			272					
1-R				3				
2-R				1				
TOTAL	8	1557	272	4	1176			

FLOYD FILLMAN, JR.
ROMAINE FILLMAN

Channel Easement

Do Not Fill Existing Channel

WILLS CREEK

BERTHA MAY FOGLE, ET AL

Work Agreement

Const. Limits

End O.E. 56+50

1-R
54+15 Rt. to 55+60 Lt.
T.R.435 I-16, 3 Manholes to be abandoned

NOTE: Fill Existing Channel to Elev. 738.0 & Slope to drain to an Outlet.

1-D
52+00 to 56+50
Channel Relocation Nº 1
I-10 1557 C.Y. D.R. Channel Prof. (18" Thick)

CHANNEL RELOC. Nº 1
PROPOSED CURVE DATA
P.I. = 53+60.33
Δ = 37°00'00"
D = 9°00'00"
R = 636.62'
L = 411.11'
T = 213.01'

Ex. 12" V.S.P. Sanitary To be removed under E-

Ex. M.H. to be Abandoned

Ex. M.H. to be Abandoned

N 61°08'29" E
Survey & Construction

Ex. M.H. to be Abandoned

Ex. 12" U.S.P. Sanitary (Abandoned)

Ex. M.H. to be Abandoned

Ex. 12" U.S.P. Sanitary (Abandoned)

Ex. M.H.

Ex. 6" V.S.P. (Abandoned)

1-G
1 Ex. M.H. To be abandoned
Top 781.49
Rt. 77.60

G1+00 END WILLS CREEK CHANNEL RELOC. Nº 1

CREEK RELOCATION

1-A
61+00
8 Lt. to 25 Lt.
8.19 C.Y. (6" Thickness)
R/W

T.R.435 RELOC. CURVE DATA
P.I. 58+01.04
D = 3°00'
Q = 1909.86
Const. Limits L = 350.12
T = 176.58'
E = 8.33'
180 Pt. 56+00 RAMP "B"

P.T. 59+76.58

Const. Limits

Ex. R/W

Abandon Ex. Field Drive Const. Limits

Const. Limits Ex. Twp. Rd. 435

Abandon Ex. 18" C.M.P.

Ex. R/W

Abandon Ex. 12" V.S.P.

Abandon Ex. Dirt Drive.
L-10 1176 S.Y. Sodding

2-D

Const. Limits

I-D Storm Underdrains for Quants. See Sheet #209

Ex. M.H. to be Abandoned

Const. Limits

Abandon Ex. 18" C.M.P.

T.S. Const. Limits

Ex. R/W

Ex. M.H. to be Abandoned

Ex. 12" U.S.P. Sanitary (Abandoned)

1-G
52+72 to 55+88
I-15, 272 L.F. G.R. 3 wire cable type

Ex. M.H. to be Abandoned

T.R.435 RELOC. CURVE DATA
P.I. 53+43.05
Δ = 69°01'32"
D = 16°00'
R = 358.10
T = 165.82
L = 310.55
E = 36.53

P.C. 30+09.09

Ex. R/W

Ex. M.H. to be Abandoned

Ex. 12" U.S.P. Sanitary (Abandoned)

Ex. R/W

Ex. Twp. Rd. 435

STRUCTURE Nº D
See Sheet Nº 210

BERTHA MAY FOGLE, ET AL

WILLS CREEK CHANNEL RELOC. Nº 1

N 39°10'01" E

N 61°08'29" W

L&E R/W

L&A R/W

35+00 See Sheet Nº 32

50+00 to 52+00 See Sheet #47 For O.E. Quant's.

52+00 See Sheet Nº 33

P.C. 51+77.23

P.C. 51+67.32

RAMP "A"

52+00 See Sheet Nº 33

50+00 to 52+00 See Sheet #47 For O.E. Quant's.

N 61°58'08" E
See Sheet #47 for Slope Lines

N 15°31'37" W

121+50 See Sht. Nº 32

S 23°29'00" W

See Sheet 209 for Quants.

Abandon Ex. M.H.

C.S. 22+96.00

S.T. 228+43.00

Ex. R/W

Ex. Twp. Rd. 435

25+30 RAMP "A" BEGIN GRADING

TREES TO BE REMOVED
12+00 to 19+25 RAMP "B"
20+75 to 24+75 RAMP "B"
25+50 to 35+00 RAMP "A"
50+00 to 64+00 T.R. 435 RELOC.
52+00 to 61+00 WILLS CREEK CHANNEL RELOC. Nº 1

238	12" to 18"
34	18" to 24"
11	24" to 30"
9	30" to 36"
2	Over 48"

HILLIS ALBRIGHT
MILTON W. ALBRIGHT

Abandon Ex. 12" V.S.P.

Ex. R/W

Ex. Shed

Mine Entrance

Const. Limits

Const. Limits

Const. Limits

Const. Limits

20+75 RESUME GRADING RAMP "B"

19+20 RAMP "B" SUSPEND GRADING

BERTHA MAY FOGLE, ET AL

C.S. 24+92.48

24+75 RAMP "B" END GRADING

Mine Entrance

Const. Limits

Const. Limits

Const. Limits

Const. Limits

RAMP "B"

RAMP "A"

T.S. 12+28.87

S.C. 15+28.87

12+00 See Sheet Nº 36

27+00 See Sheet Nº 34

S.T. 27+02.62

451+50 See Sheet Nº 48

P.C. 27+83.84

PROFILES

RAMP "A"	See Sheet Nº 60
RAMP "B"	See Sheet Nº 60
T.R.435 RELOC.	See Sheet Nº 63
WILLS CREEK CHANNEL RELOC. Nº 1	See Sheet Nº 64

WEST BOUND U.S. 40

Survey & Construction

N 61°58'08" E

SOUTH BOUND U.S. 21

Survey & Construction

RAMP "A" & RAM

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	.	

58
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

24+00
See Sheet No 40

L A & E R/W

5' rip rap Underdrain

22+50 RAMP "C"
END GRADING

453 Survey & Construction

452

N27°06'58"W

23

22

21

20 RAMP "C"

19

18

17

16

15

14

13

12

11

10

9

8

7

Const. Limits

Const. Limits

Const. Limits

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

50
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

WILLS CREEK

TO BE VACATED
Abandon Ex. Right of Way

Ex. R/W

Ex. L/A

Ex. Dirt Rd.

Ex. M.H. Abandoned

Sheet 37 to 38

T.R. 435 RELOC.

Const. Limits

Ex. Field Drive

Ex. C.L.P.

Ex. 12" V.S.P. Sanitary (Abandoned)

Ex. 12" V.S.P.

Ex. M.H.

Work Agreement

HILLIS ALBRIGHT
MILTON W. ALBRIGHT

BERTHA MAY FOGLE, ET AL

KENNETH A. GADD

DONALD A. KRANZ, ET AL

E. JOSEPH DYER
M. IRENE DYER

IDA A. THOMPSON, ET AL

EDWARD O. PERKINS

1-S.F. Res.

F. Shed

F. Barn

F. Gar.

Conc. Blk. Outside Cellar

Ex. Well

Ex. Gravel Dr.

Log House

Ex. U.S. 21

CL. Ex. R/W

L.A. Ex. R/W

L.A. & R/W

Survey & Construction

EAST BOUND U.S. 40

SOUTH BOUND U.S. 21

RAMP "H"

RAMP "G"

1-G 3G+50 53' Rt. I-15 S Wood Guard Rail, Posts Without Rail, 6'C-C

1-D 15+06 RAMP "G" 9' Rt. to 88' Rt. I-10 35 Cu. Yds. Dumped Rock Channel Protection (18" Thickness) Provide Outlet ditch 4'd bottom - 2:1 Side Slopes, Protect to 1 Vertical Height

2-A 36+58 (tan 7°R 435) 9' Rt. to 49' Rt. Field Dr. (Construct Flare to south Only) 16" B-19, 6 Cu. Yds.

Abandon Existing Field Drive

3-A 36+00 Rt. 8" B-19 28 S.Y.

3-D 35+15 to 38+25 L-10 172 S.Y. Sod

2-D 34+55 to 37+00 L-10 50 S.Y. Sod; 37+00 to 38+25 I-10 56 C.Y. D.R. Channel Protection; 38+25 to 38+50 L-10 31 S.Y. Sod

NOTE: Fill Channel to Elev. 786.0 & Slope to drain to an Outlet.

1-A 34+96 Field Drive

1-R 35+50 T.R. 435 Reloc. 165 Lt. I-16 Abandon Ex. M.H. & Bulkhead Ex. 12" to North & South

T.R. 435 RELOC. CURVE DATA
P.I. 36+59.62
Δ = 41°29'30"
D = 8°00'
R = 716.20'
L = 518.65'
T = 271.28'
E = 69.66

I-9 Stone Underdrains See Sheet No 33 for Quantities

BEGIN WORK 33+55

P.C. 33+88.34

P.T. 27+56.56

Ramp "G" 28+56.12 to 45+00.00 56 C.S.F. 37 Lt. (See Sheet No 60)

TREES TO BE REMOVED
12+00 to 28+56 RAMP "G"
163 12" to 18"
9 18" to 24"
12 24" to 30"

TREES TO BE REMOVED
33+55 to 38+50 T.R. 435 RELOC.
41 12" to 18"
4 18" to 24"
2 24" to 30"

ESTIMATED QUANTITIES
TO GENERAL SUMMARY

REF. Nº	B-19 Agg. Base	I-10 D.R. Chan	I-15 G.R. Post w/o Rail	I-16 Abdn. Ex. M.H.	L-10 Sod		I-1 Cl. F-1 12"	
UNITS	C.Y.	C.Y.	Ea.	Ea.	S.Y.		L.F.	
1-D		35						
2-D		56			81			
1-A	12						38	
2-A	6							
1-R				1				
1-G			3					
3-D					172			
3-A	28							
TOTAL	46	91	3	1	253		38	

PROFILES
RAMP "G" See Sheet Nº 61
T.R. 435 RELOC. See Sheet Nº 63

RAMP "G"

FED. ROAD SYSTEM	STATE	YEAR	
2	OHIO		

60
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

Variable
+28 Nosing
S.B.U.S. 21
+3.00%
1.75
P.V.I. 21+00
Elev. 862.62
V.C. = 1050'
29+50
BEGIN GRADING
-4.20%
3:1
P.V.I. 34+50
Elev. 805.92
V.C. = 250'
-0.68%
Variable
+98.38 Merging W.B.U.S. 40

RAMP "A"

9+75
BEGIN GRADING
℄ S.B.U.S. 21 Over W.B.U.S. 40
Variable
1.20
+22 Nosing
W.B. U.S. 40
P.V.I. 16+25
Elev. 828.59
V.C. = 400'
-0.32%
19+25
SUSPEND GRADING
20+75
RESUME GRADING
+4.86%
24+75
END GRADING
℄ W.B.U.S. 40 Under S.B. 21
Variable
43.84 Merging
S.B. U.S. 21

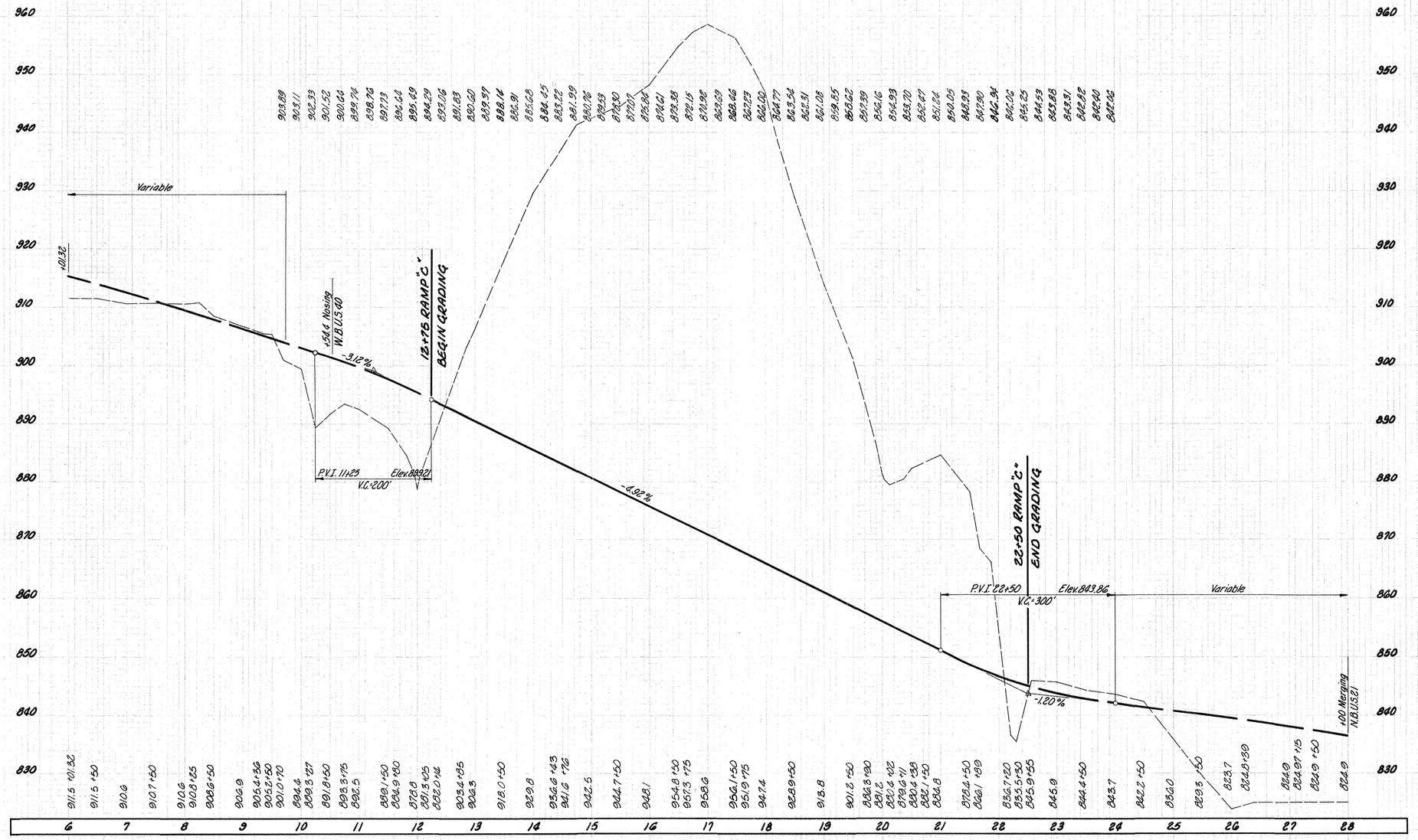
RAMP "B"

RAMP A & B PROFILES

F.A. RTE. SECTION	STATE	PROJECT	
2	OHIO		

61
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1



RAMP "C"

RAMP C PROFILE

FED. ROAD DIV. NO.	STATE	PROJECT		SHEET NO.	TOTAL SHEETS
2	OHIO			29	250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

RAMP "F"

RAMP "G"

RAMP F & G PROFILES

GUERNSEY COUNTY
GUE-40-8.93
PART 1

STRUCTURE Nº A
STATION 44+00
Proposed 24" Culvert
See Sheet Nº 207

STRUCTURE Nº B
STATION 48+89
Proposed 30" Culvert
See Sheet Nº 208

STRUCTURE Nº C
STATION 50+83
Proposed 27" Culvert
See Sheet Nº 209

STRUCTURE Nº D
STATION 53+21
Proposed 27" Culvert
See Sheet Nº 210

33+55
BEGIN WORK
(GRADING & PAVING)

81+74
END GRADING
& WORK

84+50
END PAVING
GRADING
SUSPEND GRADING

73+00
RESUME GRADING

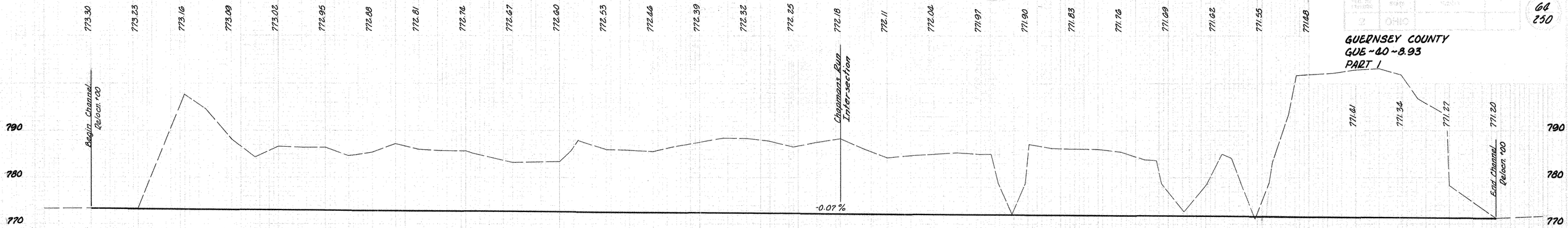
P.V.I. 36+75 Elev. 793.01 V.C.=400' -4.00%
P.V.I. 53+00 Elev. 793.01 V.C.=200'
P.V.I. 65+00 Elev. 809.81 V.C.=400'
P.V.I. 70+00 Elev. 812.61 V.C.=200'
P.V.I. 81+00 Elev. 812.61 V.C.=400'
P.V.I. 89+50 Elev. 825.19 V.C.=500'
P.V.I. 94+00 Elev. 802.69 V.C.=200'
0.00%
+1.40%
+0.56%
+1.48%
-5.00%
-3.60%

Prop. 24" Culvert
℄ 782.99
℄ 782.83
Prop. 30" Culvert
℄ 787.50
℄ 786.50
Prop. 27" Culvert
℄ 788.30
℄ 787.50
Prop. 27" Culvert
℄ 787.60
℄ 789.00

50+77.05 T.R. 435 Relocated
223+75.00 E.W.B. 43.40
5+22.77 T.R. 435 Relocated
38+51.78 Connection

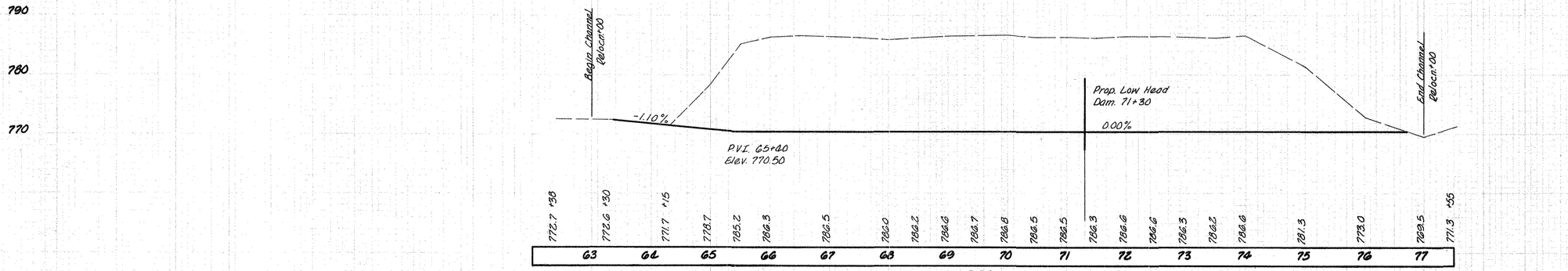
T.R. 435 RELOC. PROFILE

GUERNSEY COUNTY
GUE-40-8.93
PART I



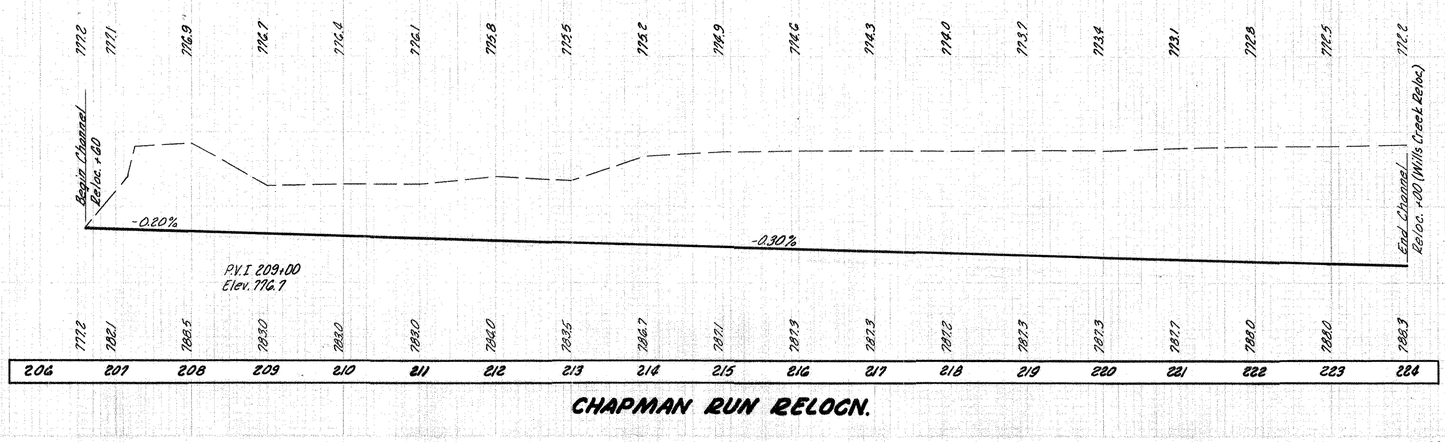
	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
	773.3	773.3	773.3	797.7	794.7 +46	788.1	784.4 +50	786.7	786.3 +50	786.3	786.6 +50	785.3	787.1 +50	786.0	785.8 +50	785.7	785.1 +12	783.1	783.3	785.8 +25	787.9 +40	786.0	785.9 +50	785.6	786.8 +50	787.5	788.4 +50	788.4	787.8 +50	786.6	787.6 +50	788.3	786.1 +50	784.3	784.8 +50	785.0	785.4 +50	785.0 +21	785.0 +38	778.8 +47	772.1 +98	778.8 +98	787.1 +02	786.4 +50	786.1	786.1 +50	785.5	783.9 +50	783.7 +74	778.8 +86	772.8 +33	778.8 +81	785.0 +15	784.1 +35	778.8 +55	771.2	778.8 +14	783.3 +21	793.2 +57	801.7 +72	801.9	802.2 +50	802.9	803.2 +50	801.8 +97	796.8 +31	798.2 +92	778.2	771.2	771.8

WILLS CREEK CHANNEL RELOCN. Nº 1



	G3	G4	G5	G6	G7	G8	G9	70	71	72	73	74	75	76	77
	772.7 +38	772.6 +30	771.7 +15	778.7	785.2	786.3	786.5	786.0	786.2	786.8	786.7	786.8	786.5	786.5	786.3	786.6	786.6	786.3	786.2	786.8	781.3	773.0	769.5	771.3 +55

WILLS CREEK CHANNEL RELOCN. Nº 2



	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224
	777.2	782.1	788.5	783.0	783.0	783.0	784.0	783.5	786.2	787.1	787.3	787.3	787.2	787.3	787.3	787.7	788.0	788.0	786.3

CHAPMAN RUN RELOCN.

CHAPMAN RUN RELOCN. PROFILE &
WILLS CREEK CHANNEL RELOCN. PROFILES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

65/250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

MATCH LINE "A"

WILLS CREEK CHANNEL RELOCATION Nº 1

TWP. RD. 435 RELOCATION

RAMP "A"

RAMP "B"

W.B. U.S. 40

RAMP "C"

RAMP "D"

N.B. U.S. 21

S.B. U.S. 21

RAMP "H"

E.B. U.S. 40

RAMP "G"

RAMP "F"

RAMP "E"

WILLS CREEK CHANNEL RELOCATION Nº 2

Dam

T.R. 435 RELOC.

MATCH LINE "A"

CROSS SECTION LAYOUT

GUERNSEY COUNTY
GUE-40-8.93
PART 1

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110

820
810
800
790
780

2d:1 2d:1
3:1 3:1 3:1 3:1
1d:1 1d:1
F=586 F=531
F=4250 F=4465
TOTAL FILL L-E 5653
TOTAL FILL L-E 4757
Granular Embankment
Begin 18" Granular Embankment 197+30

820.27
197+30
786.0

2' at shoulder (Typical)
2d:1 2d:1
Surcharge
2' at shoulder (Typical)
F=536 F=525
F=3164 F=3040
TOTAL FILL L-E 6161
TOTAL FILL L-E 6056
2'
3:1 3:1
1d:1 1d:1

See Sheet No 67
SEE SHEET No 67

7 11,411
13 14,304
16 8217
30 15,217
0 0

810.89
197+00
785.7

818.64
196+00
786.2

817.36
195+00
786.4

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

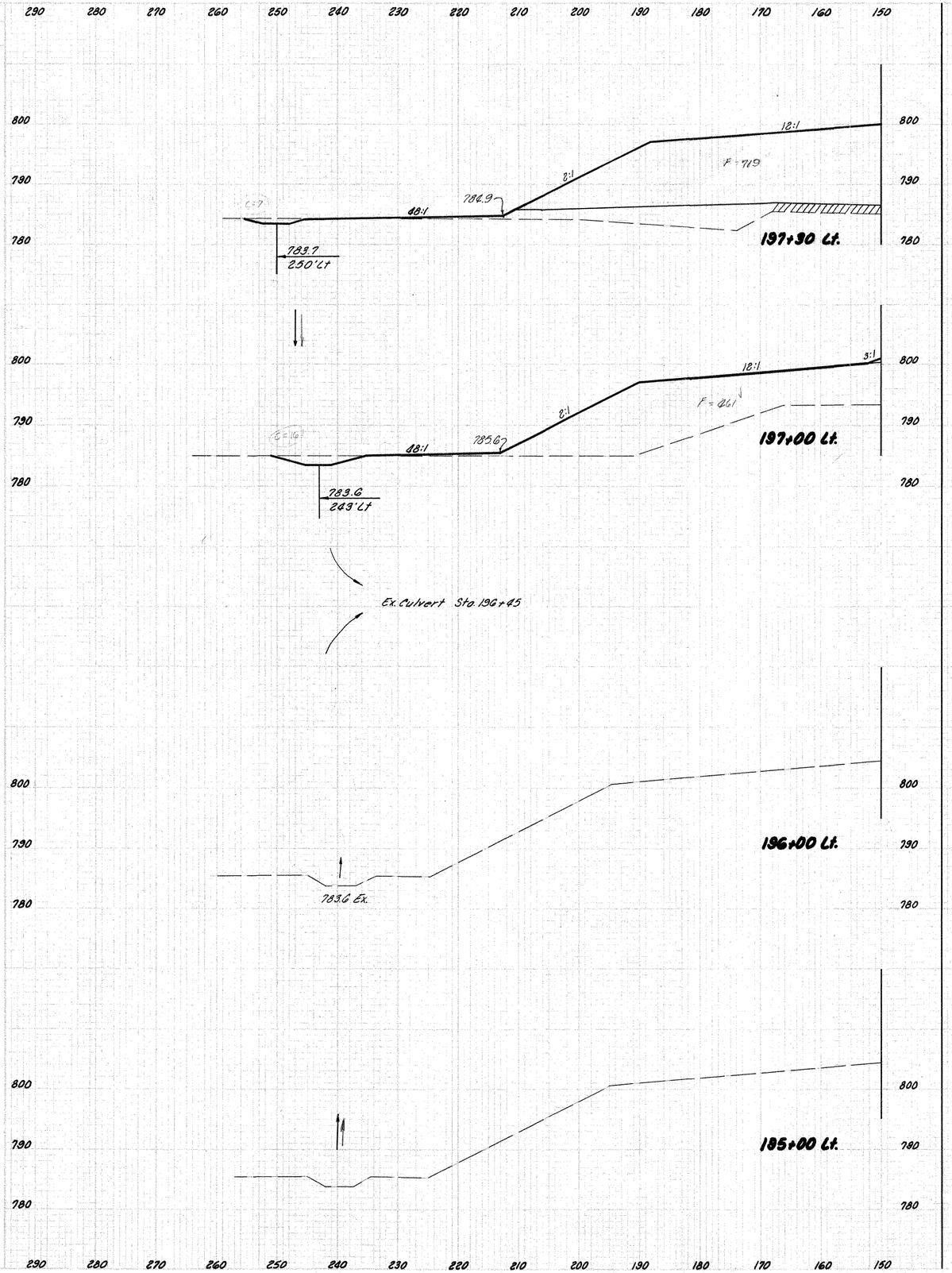
US 40 - 195+00 - 197+30

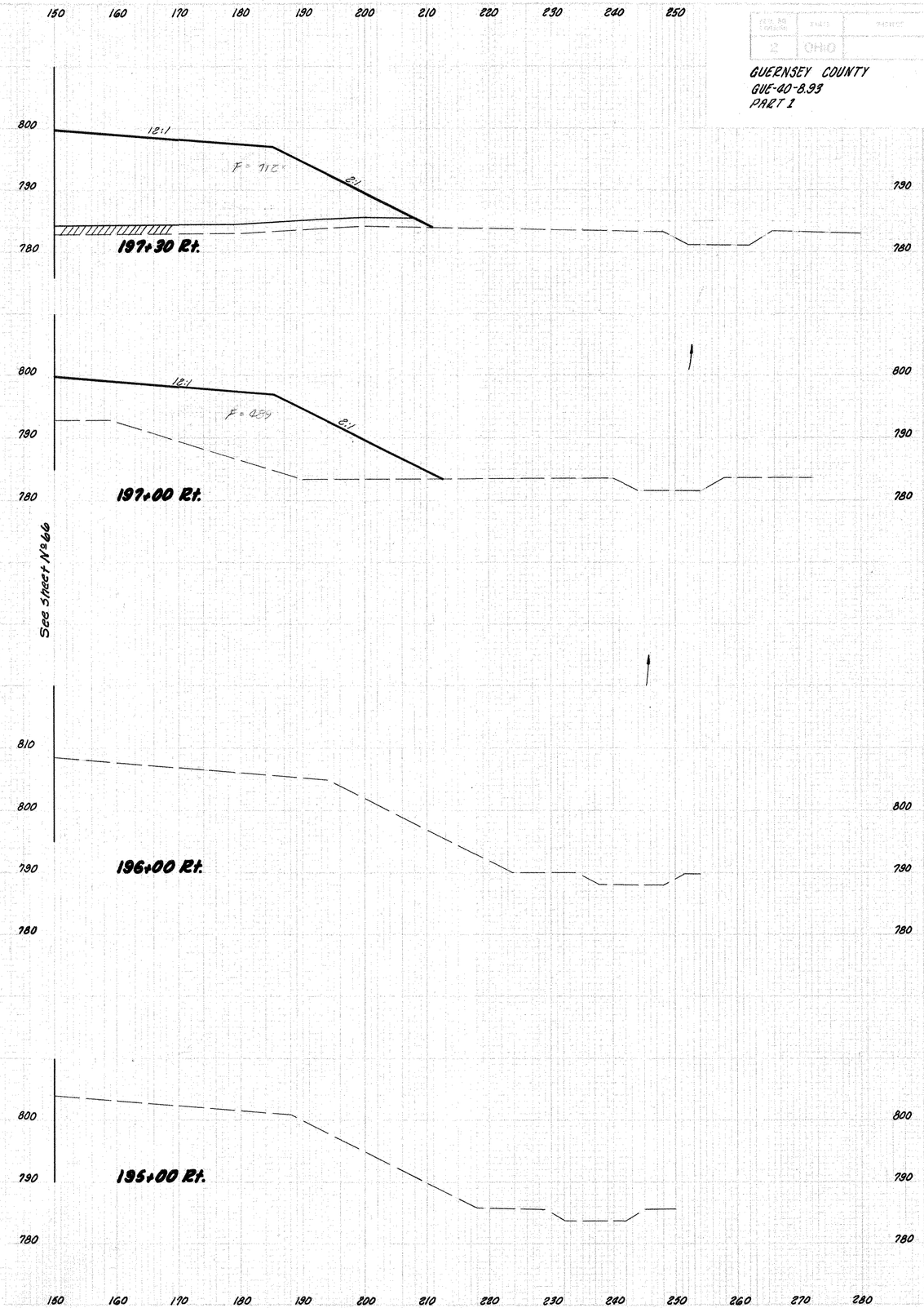
SHEET NO.	STATE	PROJECT	
2	OHIO		

07
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

CROSS SECTIONS		EARTH AREA		VOLUMES	
CUT	FILL	CUT	FILL	CUT	FILL





X-SEC. EXTN. LT & RT. 195+00 to 197+30 U.S. 40

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

68
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

820 810 800 790 780

8135 8135 8232 8232 8d:1 3:1 3:1

F=3222 F=1932

0 8954

820.82
198+50
787.3

8d:1 8d:1 3:1 3:1 12:1 12:1

F=441 F=1341 F=5227

TOTAL FILL ℄-℄ 5365 V.

0 18827

See Sheet No 69

0 11,379

820.96
198+00
786.2

See Sheet No 69

8d:1 8d:1 3:1 3:1 12:1 12:1

F=420 F=539 F=1718 F=1599

TOTAL FILL ℄-℄ 5865 V. TOTAL FILL ℄-℄ 5840 V.

28 21,374

30 11,705

Granular Embankment

820.45
197+50
781.8

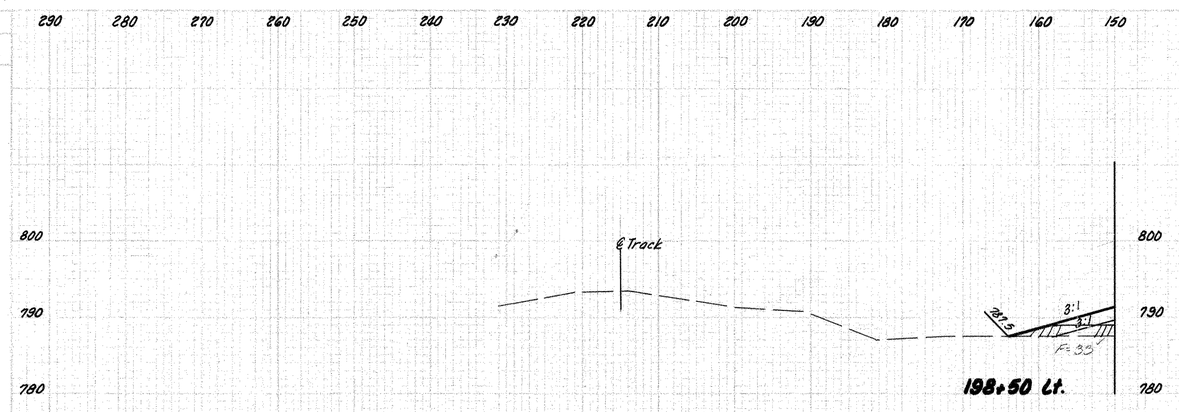
14 8561

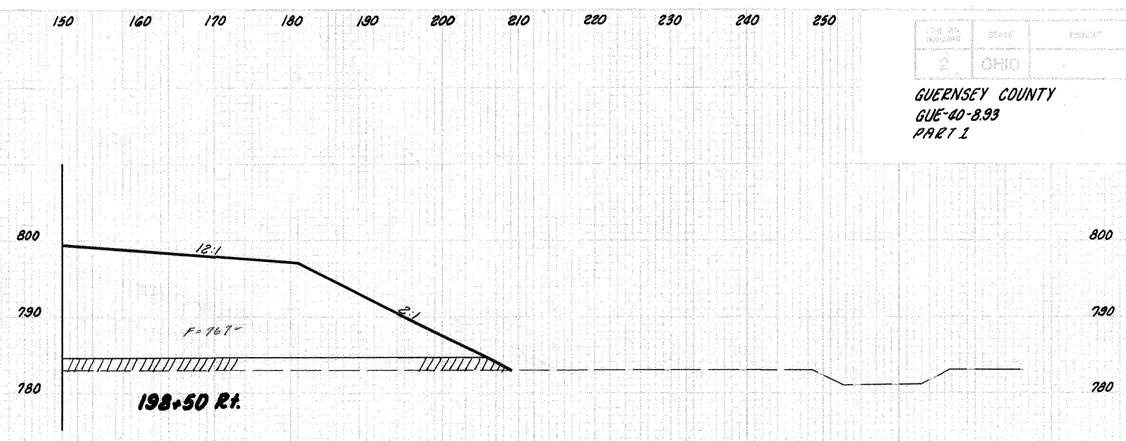
197+30 7 11,911

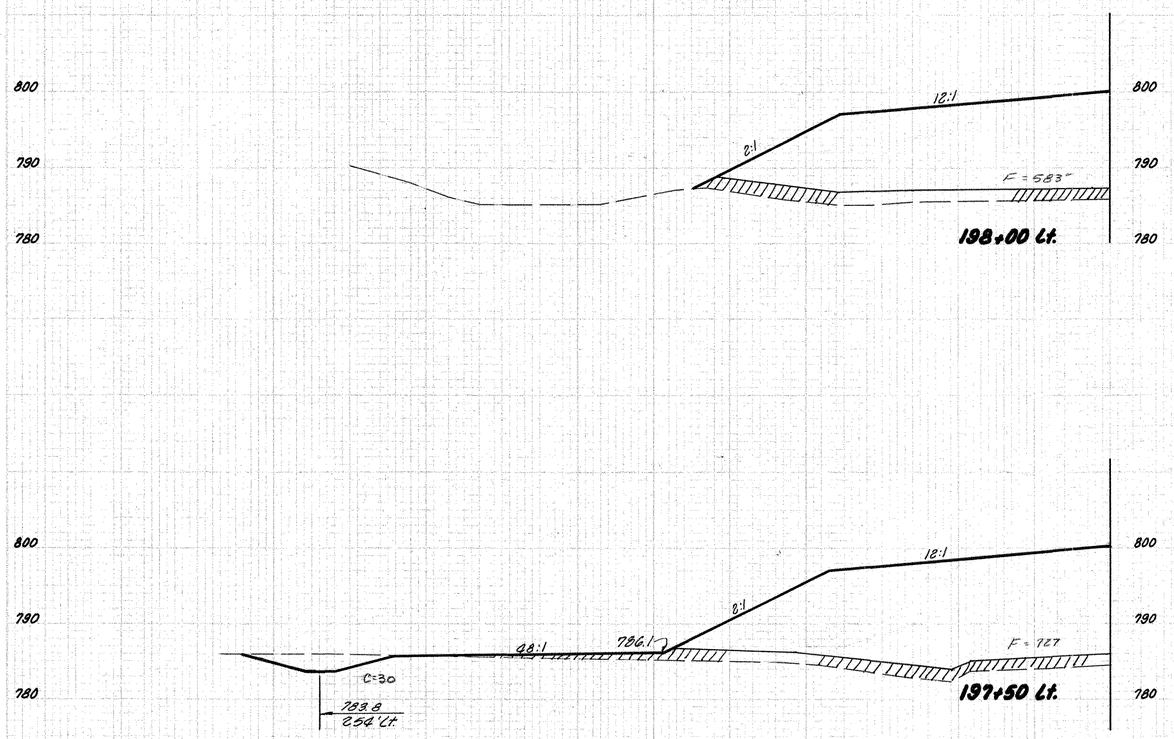
197+30

U.S. 40 - 197+50 - 198+50

GUERNSEY COUNTY
GUE-40-8.93
PART 1









X-SEC. EXTN. LT. & RT. 197+50 to 198+50 U.S. 40

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

70
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110

120 130 140 150

800
790
780

℄ Track

822.70
200+50
787.0

800 790 780

200+87 0 0

0 5950

800
790
780

℄ Track

809.1
808.5
809.1
799.7
799.4
F=388
F=2780

822.86
200+00
787.9

800 790 780

0 3693

780
790
800
810

℄ Track

788.1
822.2
822.5
814.1
814.1
24:1
3:1
3:1
F=1365
F=4354

822.16
199+50
788.4

820 810 800 790

See Sheet No 71

0 9358

0 6816

800
790
780

165' ℄ Track

786.5
813.8
813.8
813.3
823.5
824.1
24:1
3:1
3:1
F=2155
F=4710

821.82
199+00
788.2

820 810 800 790

0 13078

0 7706

0 15826

0 8954

198+50

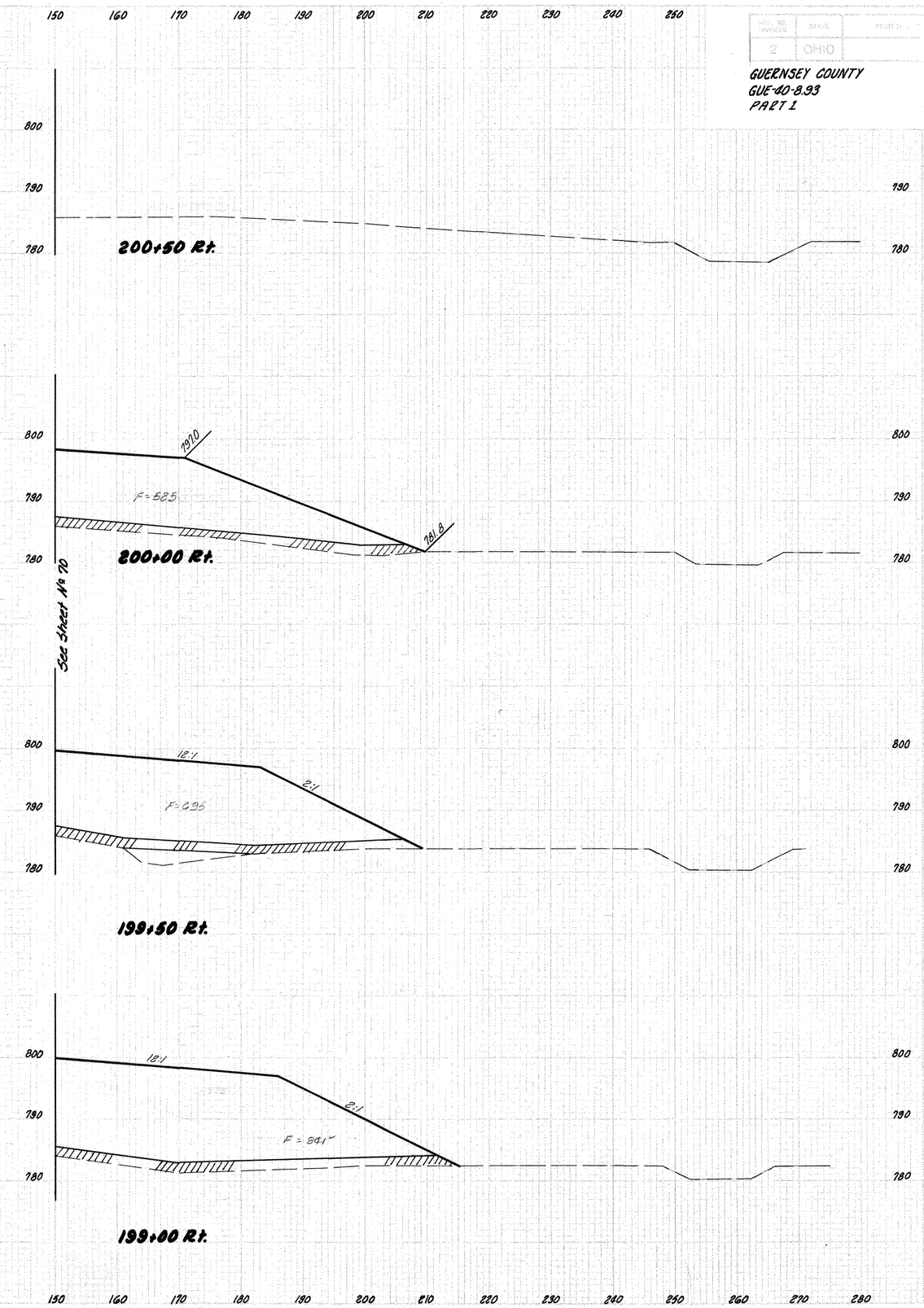
198+50

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

U.S. 40 - 199+00 ~ 200+50

SEC. NO. REVISION	STATE	PROJECT		71
2	OHIO			250

GUERNSEY COUNTY
GUE-40-8.93
PART I



X-SEC. EXTN. Rt. 199+00 to 200+50 U.S. 40

FED. RD. DIVISION	STATE	PROJECT	FILE NUMBER
2	OHIO		

72
250

GUERNSEY COUNTY
GUE-40-8.93
PART I

SEEDING	
L.F.	S.Y.

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

820 810 800 790 780 770

3:1 3:1 2:1 12:1

825.1 820.3 820.3 820.3

F=5103 F=5094

822.91
204+00
774.0

See Sheet No 73

825.3 824.0 814.0 813.8

F=5145 F=3097

789.6

822.11
203+50
775.7

See Sheet No 73

825.2 814.3 814.3 814.3

F=4964 F=2679

788.8 ℄ Track

Granular Embankment

822.11
203+00
780.3

201+26

END AREA		CU YDS.	
CUT	FILL	CUT	FILL
0	10980		
		0	18966
0	9503		
		0	16819
0	8281		
		0	16613
0	0		

U.S. 40 - 203+00 ~ 204+00

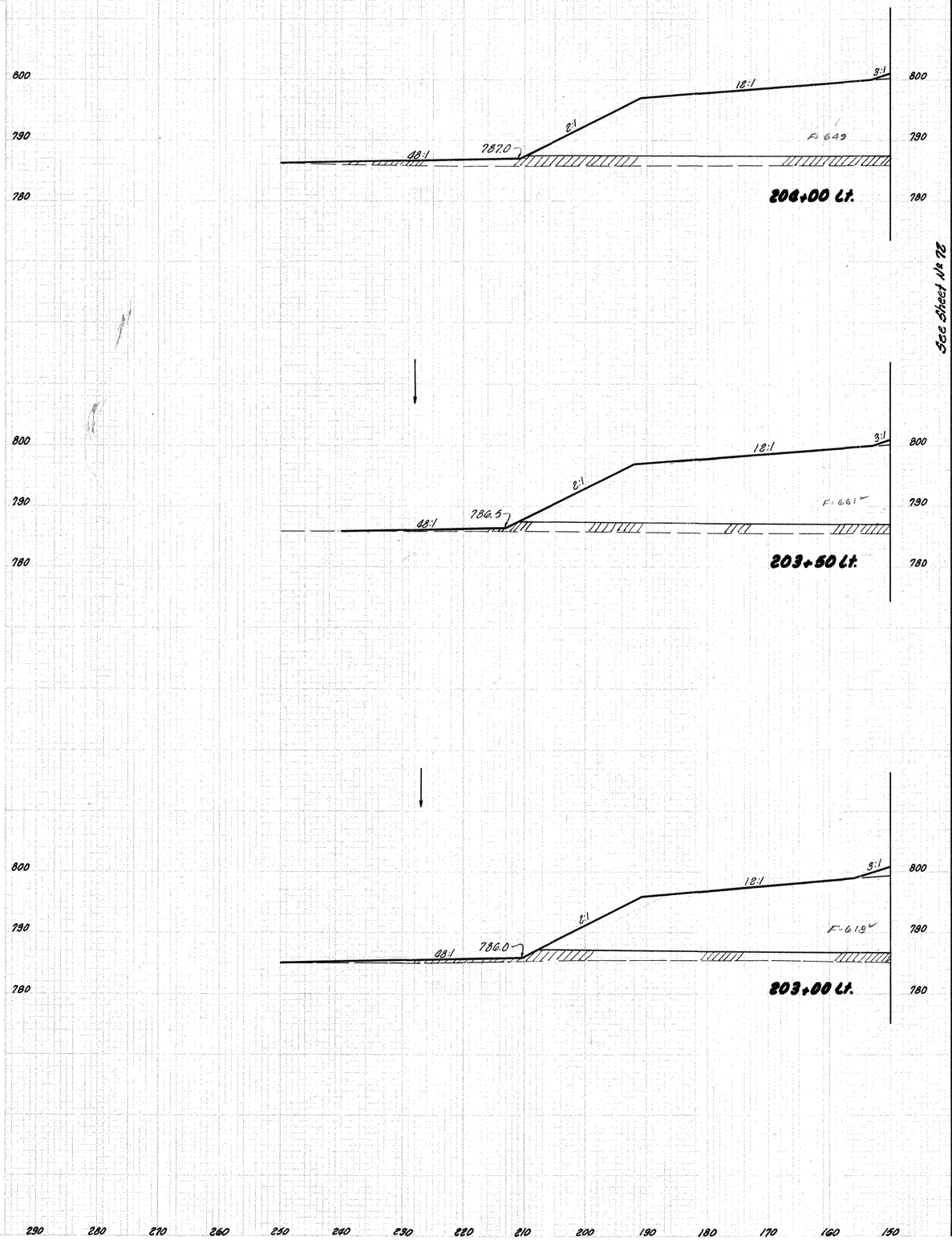
SHEETS	
FOR VISUAL CHK	FOR CORR

FILE NO.	STATE	PROJECT	
2	OHIO		

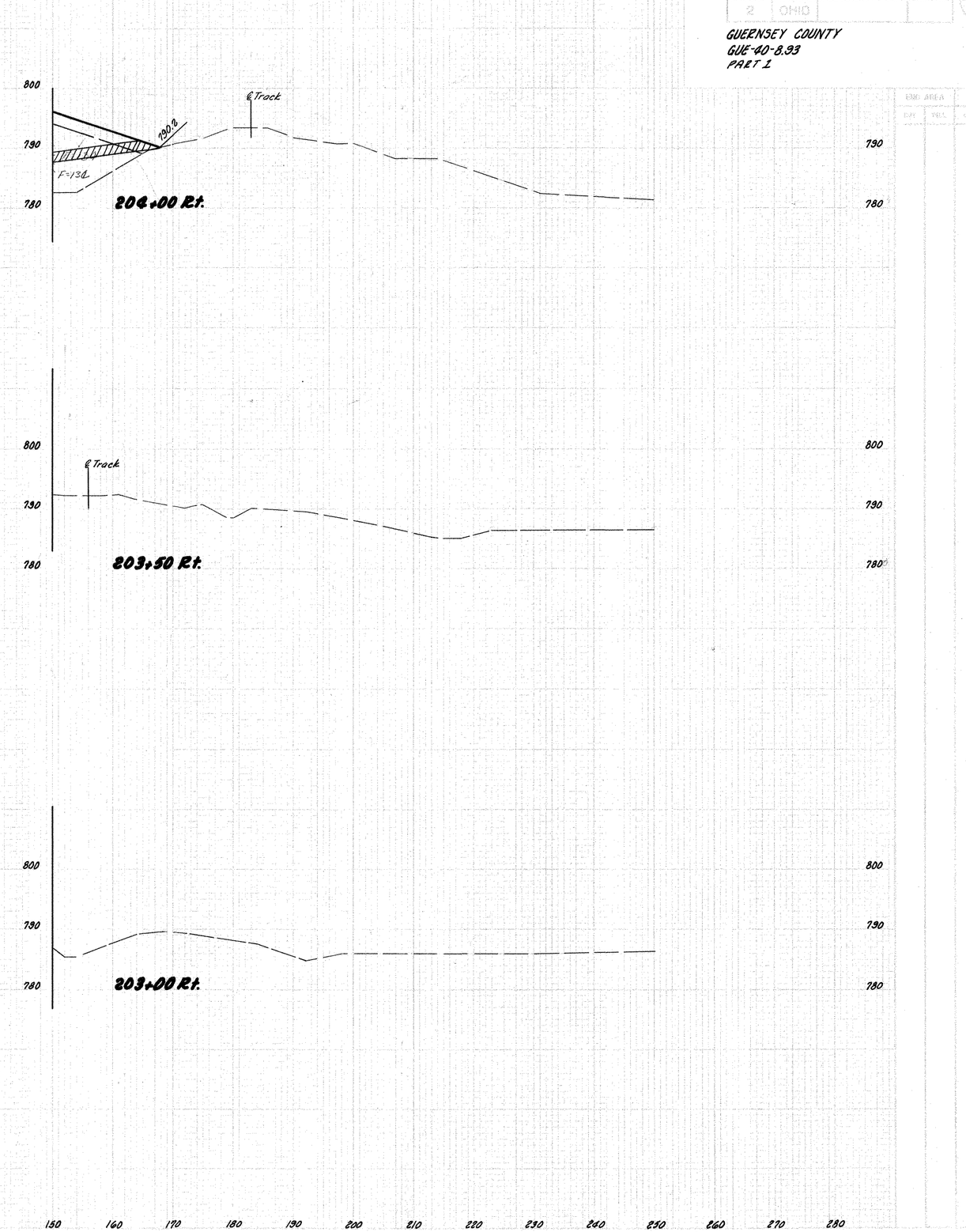
73
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

END AREA		VOLUME	
CUT	FILL	CUT	FILL



See Sheet No 78

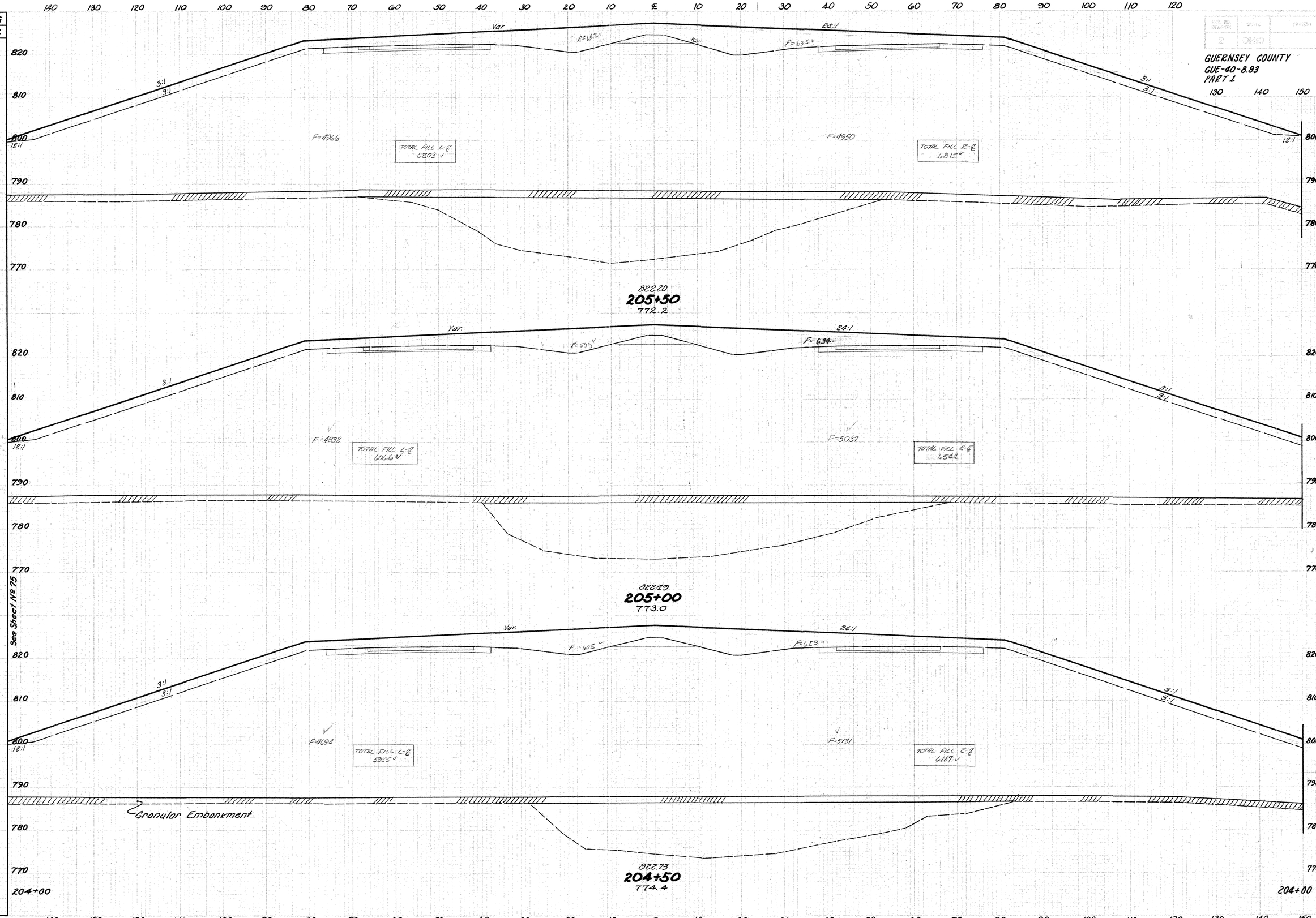


X-SEC. EXTN. LT. & RT. 203+00 to 204+00 U.S. 40

SEEDING	
L.F.	S.Y.

PROJ. NO. DIVISION	STATE	PROJECT	SHEET NUMBER	TOTAL SHEETS
2	OHIO		74	250

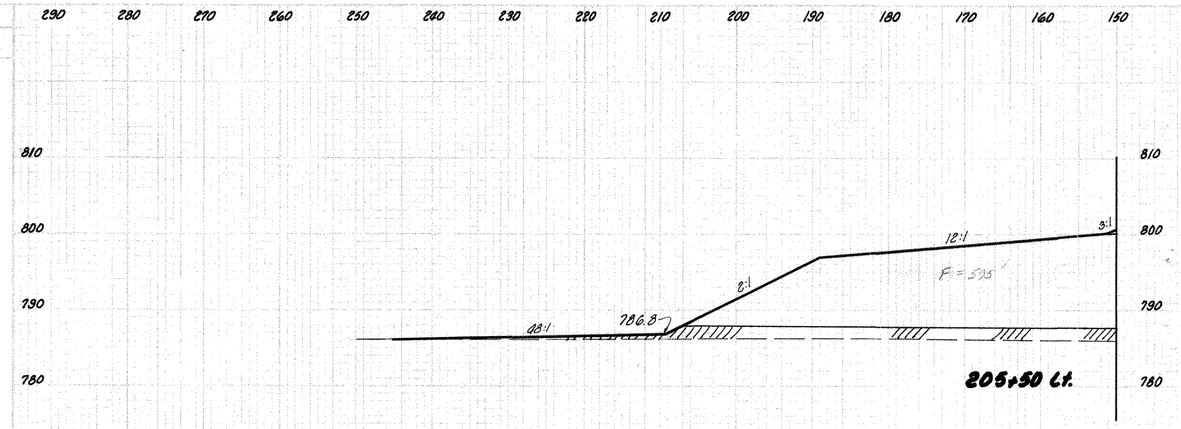
GUERNSEY COUNTY
GUE-40-8.93
PART 1

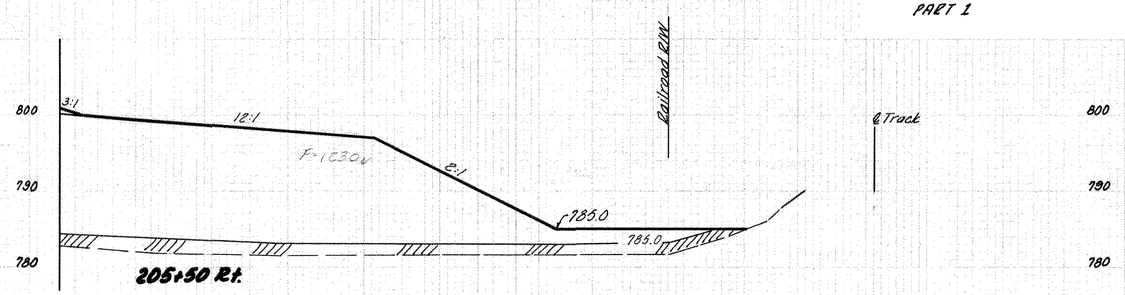


END AREA		CU YDS	
CUT	FILL	CUT	FILL
0	13,018		
		0	23,780
0	12,610		
		0	28,913
0	12,148		
		0	21,409
0	10,980		

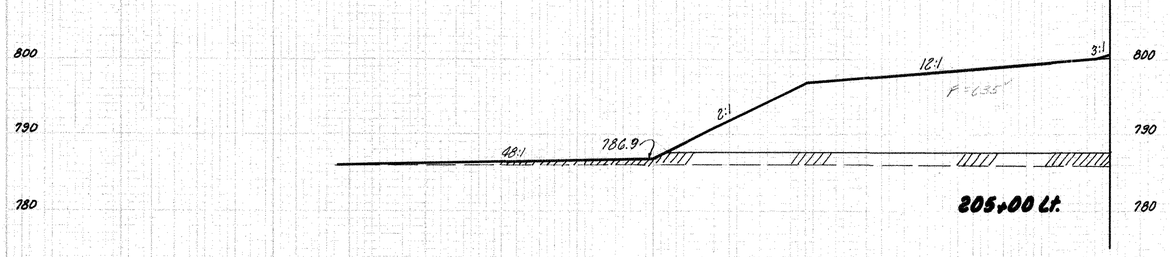
U.S. 40 - 204+50-205+50

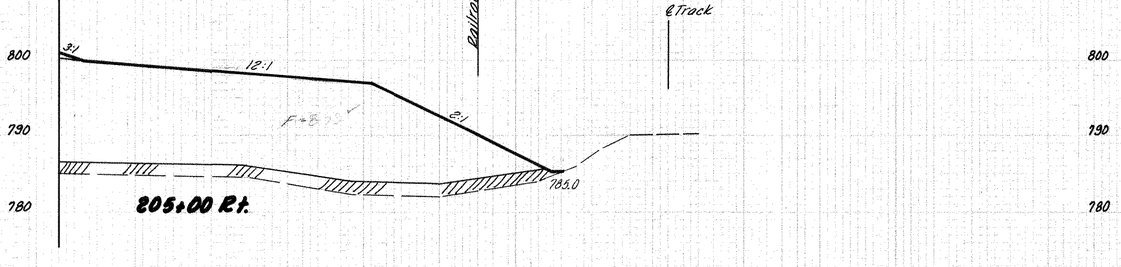
GUERNSEY COUNTY
GUE-40-8.93
PART 1

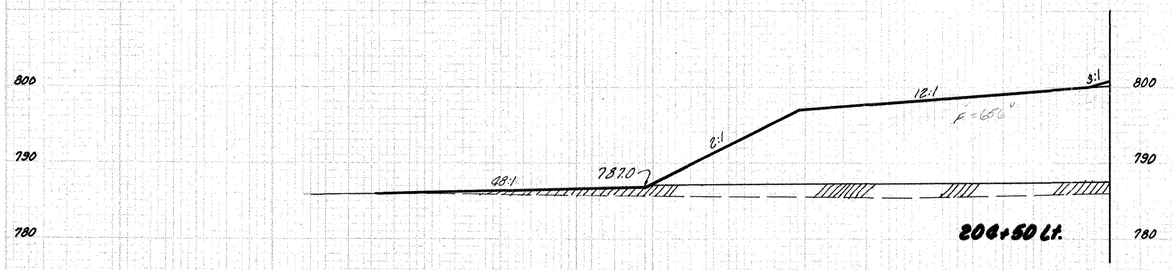


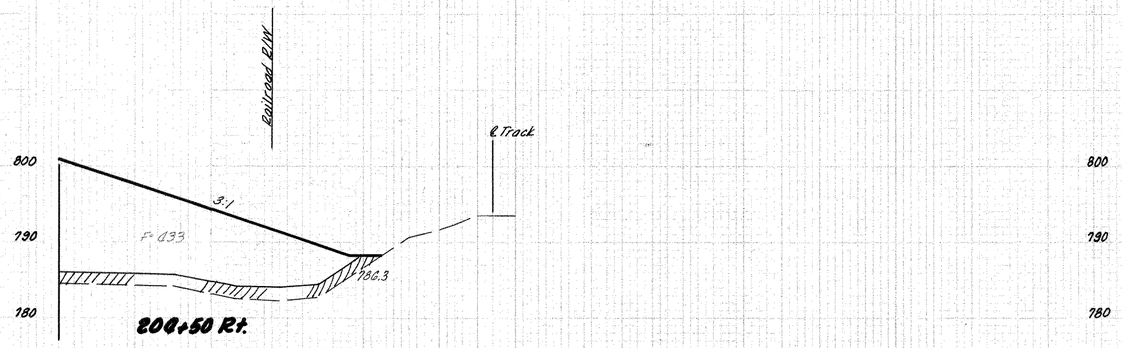


See Sheet No 76









X-SEC. EXTN. LT & RT. 206+50 to 205+50 U.S. 40

SEEDING	
L.F.	S.Y.

See Sheet № 77

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120

STD. SHEET NO.	ITEM	PROJECT	TOTAL SHEETS
2	GRD		

76
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

130 140 150

Var. 3:1 3:1 18:1 — F=527 — F=624 — 24:1 3:1 3:1 18:1

F=5151 — TOTAL FILL L-℄ 6219 — F=4608 — TOTAL FILL R-℄ 6032

820 810 800 790 780 770

821.02
207+00
785.7

Var. 3:1 3:1 18:1 — F=575 — F=638 — 24:1 3:1 3:1

F=5108 — TOTAL FILL L-℄ 6227 — F=4850 — TOTAL FILL R-℄ 6760

820 810 800 790 780 770

821.46
206+50
776.6

Var. 3:1 3:1 18:1 — F=535 — F=654 — 24:1 3:1 3:1 18:1

F=5124 — TOTAL FILL L-℄ 6258 — F=5430 — TOTAL FILL R-℄ 6939

820 810 800 790 780 770

821.86
206+00
774.0

205+50

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
0	18,251		
		0	23,369
0	18,987		
		0	24,244
0	13,197		
		0	24,873
0	13,018		

See Sheet № 77

U.S. 40 - 206+00-207+00

SHEET NO. | SHEETS
2 | OHIO

77
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

END AREA | VOLUME
CUT | FILL | CUT | FILL

SECTION
END AREA | VOLUME
CUT | FILL

290 280 270 260 250 240 230 220 210 200 190 180 170 160 150

800
790
780

12:1
2:1
4:1
F=501
787.0

207+00 Lt.

800
790
780

12:1
F=880
2:1

207+00 Rt.

800
790
780

12:1
2:1
F=586.9

206+50 Lt.

52nd Street No. 76

800
790
780

3:1
12:1
2:1
F=1272
784.5
Fill Channel
Railroad R/W

206+50 Rt.

800
790
780

12:1
2:1
F=599
787.2

206+00 Lt.

800
790
780

3:1
12:1
2:1
F=1053
784.7
4:1
Railroad R/W
℄ Tract

206+00 Rt.

150 160 170 180 190 200 210 220 230 240 250 260 270 280

X-SEC. EXTN. LT. & RT. 206+00 to 207+00 U.S. 40

SEEDING	
L.F.	S.Y.

See Sheet No. 79

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120

820 / 810 / 800 / 790 / 780

Var. 3:1 3:1 18:1 — F=531 — 2d:1 3:1 18:1

F=4895 — TOTAL FILL L-℄ 3971 ✓

F=518 ✓

F=3960 ✓

TOTAL FILL R-℄ 5080 ✓

818.69
209+00
788.4

Var. 3:1 3:1 18:1 — F=551 ✓ — 2d:1 3:1 3:1 18:1

F=5063 ✓ — TOTAL FILL L-℄ 6086 ✓

F=636 ✓

F=3753 ✓

TOTAL FILL R-℄ 6931 ✓

819.35
208+50
787.7

Var. 3:1 3:1 18:1 — F=577 ✓ — 2d:1 3:1 3:1 18:1

F=5037 ✓ — TOTAL FILL L-℄ 6155 ✓

F=668 ✓

F=3738 ✓

TOTAL FILL R-℄ 6925 ✓

812.96
208+00
788.0

Var. 3:1 3:1 18:1 — F=550 ✓ — 2d:1 3:1 3:1 18:1

F=5180 — TOTAL FILL L-℄ 4229 ✓

F=696 ✓

F=3190 ✓

TOTAL FILL R-℄ 5601 ✓

820.52
207+50
787.1

207+00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

GUERNSEY COUNTY
GUE-40-8.93
PART 1

130 140 150

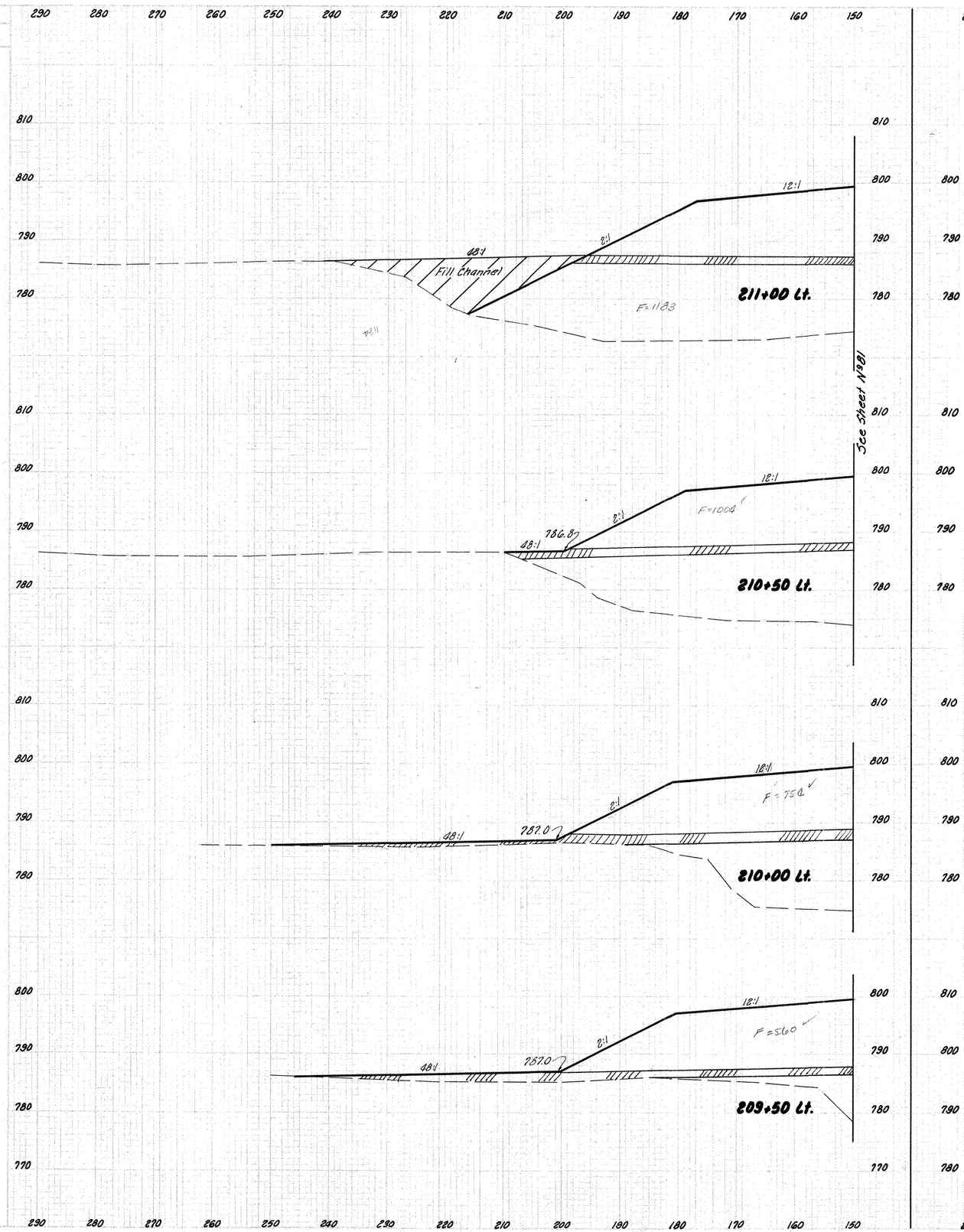
				78
	OHIO			250

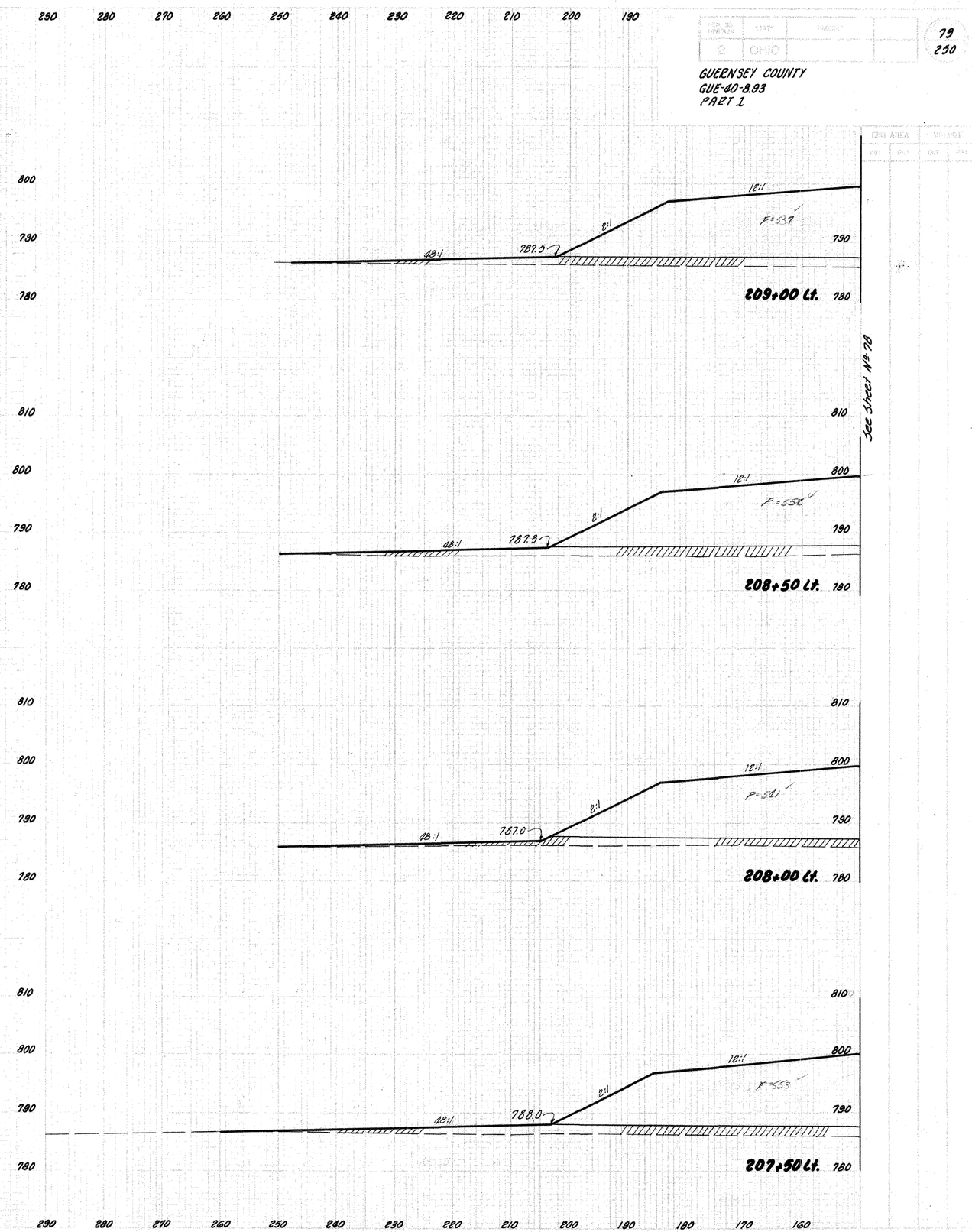
END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
0	11,251		
		0	20,619
0	11,017		
		0	20,525
0	11,150		
		0	21,091
0	12,109		
		0	22,556
0	12,251		

See Sheet No. 80

U.S. 40 - 207+50 - 209+00

GUERNSEY COUNTY
GUE-40-8.93
PART 1





X-SEC. EXTN. LT. 207+50 to 211+00 U.S. 40

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

80
250

GUERNSEY COUNTY
GUE-40-8.93
PART 2

Channel Cut & Fill

AREA CUT	AREA FILL	VOLUME CUT	VOLUME FILL
190	0		
		344	0
181	0		
		576	0
441	0		
		850	0
477	0		
		442	0
0	0		

150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410

800 790 780

12:1 2:1 F=702 788.3 4B:1 C=190 776.70

209+00 Rt.

Feedsheet Up 80

17 122 27 60 27 9

12:1 2:1 F=582 788.3 4B:1 C=181 776.80

208+50 Rt.

208+30 Ahead
208+30 Back

End Dumped Rock 208+50

810 800 790 780

47 19 111 21 58 0

12:1 2:1 F=589 790.9 4B:1 C=441 776.90

208+00 Rt.

207+50
207+00

12:1 2:1 F=1013 Fill Ex. Channel

207+50 Rt.

790 780

C=477 772.00

Begin Dumped Rock 206+85

207+50 C=477 F=0

207+00 C=0 F=0

℄ Track

40 30 20 10 0 10 20 30 40

150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440

X-SEC. EXTN. RT. 207+50 to 209+00 U.S. 40

SEEDING	
L. F.	S. Y.

FED. NO.	STATE	PROJECT	TYPE
2	OHIO		

81
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
0	10,936		
0	10,976	0	20,057
0	10,858	0	20,217
0	11,845	0	20,966
0	11,251	0	20,830

See Sheet 11-A-BC

See Sheet 79

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120

820 810 800 790 780

Var. 3:1 3:1 12:1 F=450 F=480 2d:1 3:1 3:1 12:1

F=4019 F=3993

8+15.76
211+00
785.4

Var. 3:1 3:1 12:1 F=452 F=534 2d:1 3:1 3:1 12:1

F=4381 F=4090

8+16.50
210+50
785.0

Var. 3:1 3:1 12:1 F=490 F=511 2d:1 3:1 3:1 12:1

F=4426 F=4128

TOTAL FILL L-℄ 5670

8+17.24
210+00
788.7

Var. 3:1 3:1 12:1 F=516 F=623 2d:1 3:1 3:1 12:1

F=4736 F=2075

TOTAL FILL L-℄ 5870

TOTAL FILL R-℄ 5375

Granular Embankment

8+17.98
209+50
788.3

209+00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

U.S. 40 - 209+50-211+00

FED. ROAD NUMBER 2 | STATE OHIO | PROJECT

82
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

Channel Cut & Fill

LND AREA CUT	LND AREA FILL	VOLUME CUT	VOLUME FILL
223	0		
		508	0
326	0		
492	0		
205	0		
380	0		
205	0		
300	0		
190	0		

18 | 119

800 / 790 / 780

12:1 F=564 2:1 784.0 48:1

211+00 Rt.

C=223 776.10

See Sheet #81

25 | 119

800 / 790 / 780

12:1 F=515 2:1 785.7 48:1

210+50 Rt.

C=326 776.25

16 | 92

800 / 790 / 780

12:1 F=533 2:1 784.6 48:1

210+00 Rt.

C=205 776.60

15 | 89 | 17

800 / 790 / 780

12:1 F=679 2:1 783.8 48:1

209+50 Rt.

C=205 776.55

209+00

150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440

X-SEC. EXTN. RT. 209+50 to 211+00 U.S.60

SEEDING	
L.F.	S.Y.

FED. ROAD DIVISION	STATE	PROJECT	SHEET NUMBER
2	OHIO		83 250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120

Var. 3:1 3:1 12:1 F=437 4:1 Var. F=480 24:1 3:1 3:1 12:1
810 800 790 780
F=3625 F=3666
812.80
213+00
785.7

Var. 3:1 12:1 F=445 4:1 Var. F=500 24:1 3:1 3:1 12:1
810 800 790 780
F=3570 F=3760
813.52
212+50
785.4

Var. 3:1 3:1 12:1 F=457 4:1 Var. F=507 24:1 3:1 3:1 12:1
810 800 790 780
F=3677 F=3783
810.28
212+00
785.7

Var. 3:1 3:1 12:1 F=428 4:1 Var. F=513 24:1 3:1 3:1 12:1
810 800 790 780
F=3805 F=4018
Granular Embankment
815.02
211+50
783.1

211+00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
0	9,020		
		35	16,690
38	9,010		
		35	16,977
0	9,325		
		0	19,016
0	11,218		
0	10,686	0	20,276

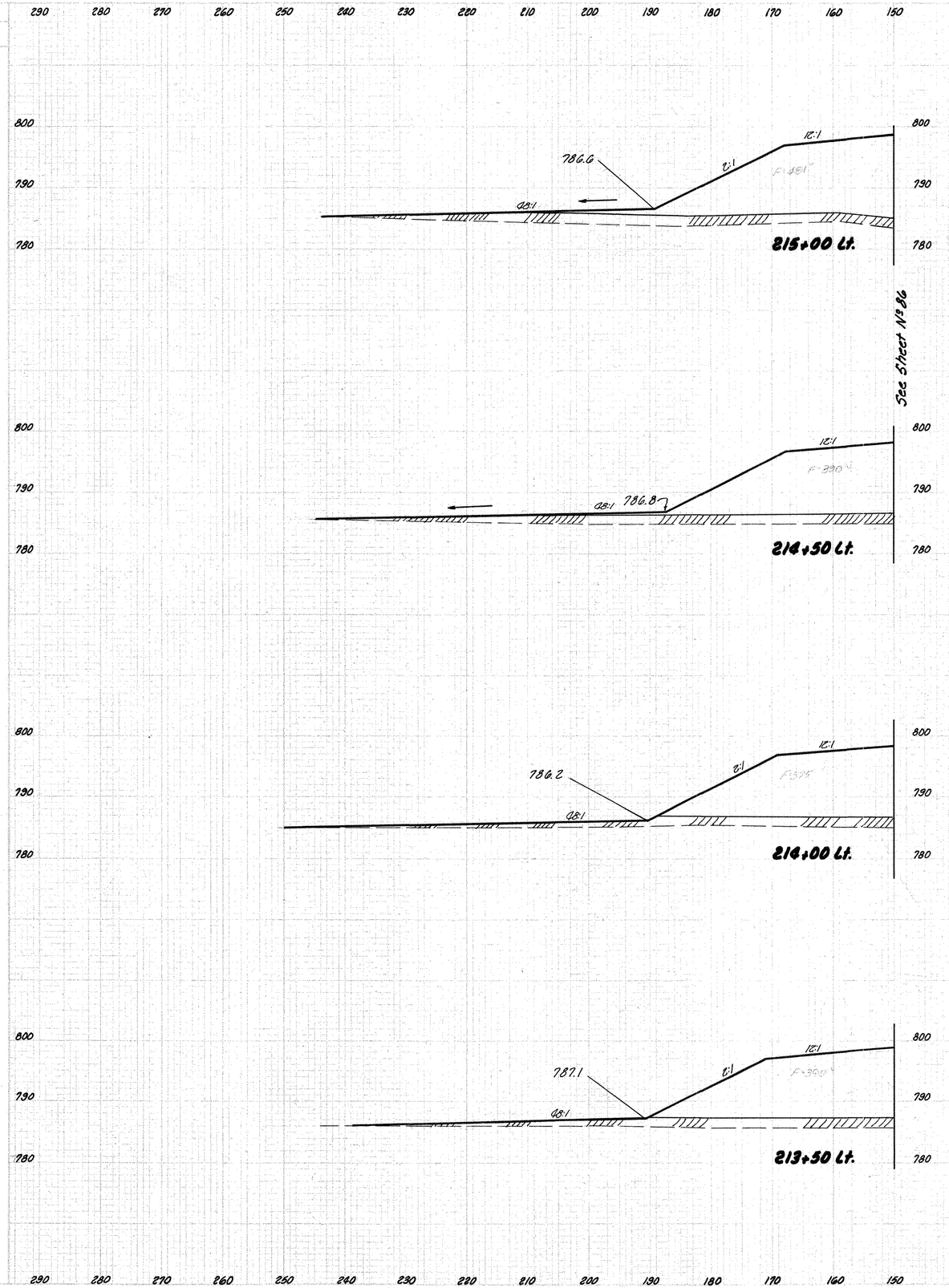
See Sheet No. 85

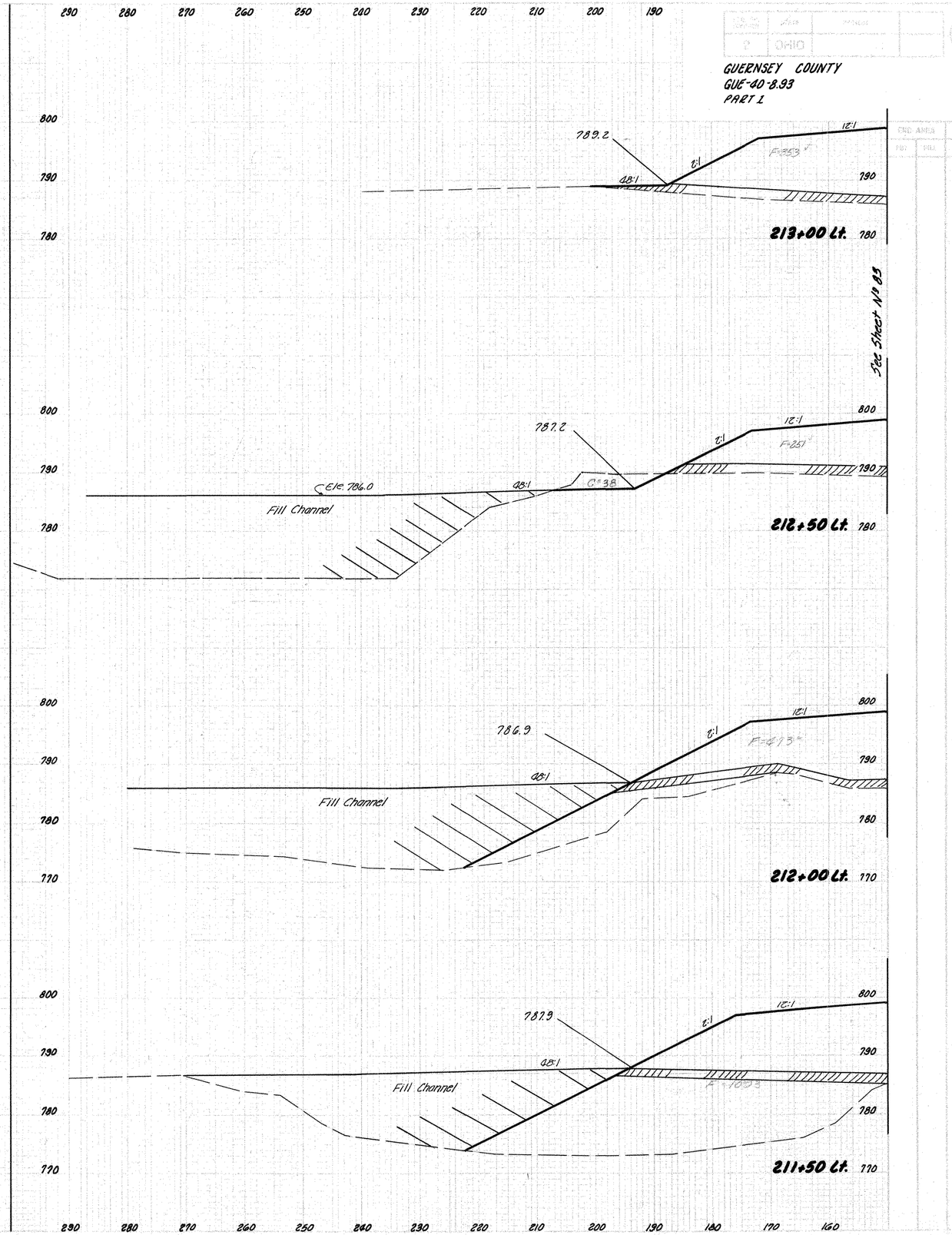
See Sheet No. 84

U.S. 40 - 211+50 - 213+00

GUERNSEY COUNTY
GUE-40-8.93
PART 1

CRD. AREA		VOLUME	
FILL	CUT	FILL	CUT





X-SEC. EXTN. LT. 211+50 to 215+00 U.S. 40

FED. ROAD DIVISION 2 | STATE OHIO | PROJECT

85
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

SECTIONS
FED. ROAD DIVISION | SEC. FED.

CHANNEL CUT & FILL
FINE AREA | FINE VOLUME
CUT | FILL | CUT | FILL

150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410

20

800
790
780
12:1
F=057
2:1
784.0
4B:1
C=293
775.50
790
780
293 0

213+00 Rt.

10 B

See Sheet 10 of 89

520 0

800
790
780
12:1
F=284
2:1
783.8
4B:1
C=269
775.65
800
790
780
269 0

18

212+50 Rt.

100

438 0

800
790
780
12:1
F=049
2:1
784.1
4B:1
C=269
775.80
800
790
780
269 0

18

212+00 Rt.

100

462 0

800
790
780
12:1
F=445
2:1
785.3
4B:1
C=230
776.95
800
790
780
230

18

211+50 Rt.

100

419 0

18

211+00

211+00
0 232

150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440

X-SEC. EXTN. RT. 211+50 to 213+00 U.S. 40

SEEDING	
L.F.	S.Y.

See Sheet No 84

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120

810 / 800 / 790 / 780

Var. 3:1 3:1 12:1 F=408 4:1 Var. F=460 20:1 3:1 3:1 12:1

F=3361 F=2839

809.84
215+00
786.7

Var. 3:1 3:1 12:1 F=406 4:1 Var. F=485 20:1 3:1 3:1 12:1

F=3373 F=2395

810.58
214+50
787.0

Var. 3:1 3:1 12:1 F=455 4:1 Var. F=500 20:1 3:1 3:1 12:1

F=3496 F=3086

811.32
214+00
786.8

Var. 3:1 3:1 12:1 F=444 4:1 Var. F=493 3:1 3:1 12:1

F=3570 F=3361

812.06
213+50
786.3

Granular Embankment

213+00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

STATE	COUNTY	NO.
OHIO		

86
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

END AREA		CU YDS	
CUT	FILL	CUT	FILL
0	7,727		
		0	14,515
0	7,869		
		0	14,813
0	8,149		
		0	15,533
0	8,627		
		0	16,300
0	9,020		

See Sheet No 87

U.S. 40 - 213+50 - 215+00

GUERNSEY COUNTY
GUE-40-8.93
PART 1

CHANNEL CUT & FILL

		END AREA		VOLUME	
		CUT	FILL	CUT	FILL
28	215+00 Rt.	469	0	811	0
30	214+50 Rt.	407	0	765	0
29	214+00 Rt.	419	0	649	0
22	213+50 Rt.	282	0	532	0
20	213+00	293	0		

X-SEC. EXTN. RT. 213+50 to 215+00 U.S. 40

See Sheet 1/9 86

SEEDING	
L.F.	S.Y.

See Sheet No 89

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120

810 / 800 / 790

Var. F=374 Var. Var. F=377 Tan Extended 2d:1 3:1 3:1 12:1 12:1 2:1

F=2671 F=2585

807.25 807.23

217+50

787.3

Var. F=417 Var. Var. F=415 2d:1 3:1 3:1 12:1 12:1 2:1

F=2670 F=2797

807.50 807.49

217+00

786.8

Var. F=403 Var. Var. F=410 2d:1 3:1 3:1 12:1 12:1 2:1

F=2661 F=2635

807.90 807.89

216+50

787.4

Var. F=404 Var. Var. F=443 2d:1 3:1 3:1 12:1 12:1

F=2769 F=2670

808.43 808.43

216+00

787.0

Var. F=445 Var. Var. F=494 2d:1 3:1 3:1 12:1 12:1

F=2845 F=2770

809.10

215+50

787.2

Granular Embankment

215+00

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
0	6,922		
		0	11,950
0	6,484		
		0	12,106
0	6,590		
		0	12,440
0	6,805		
		0	12,881
0	7,066	0	13,790
0	7,727		

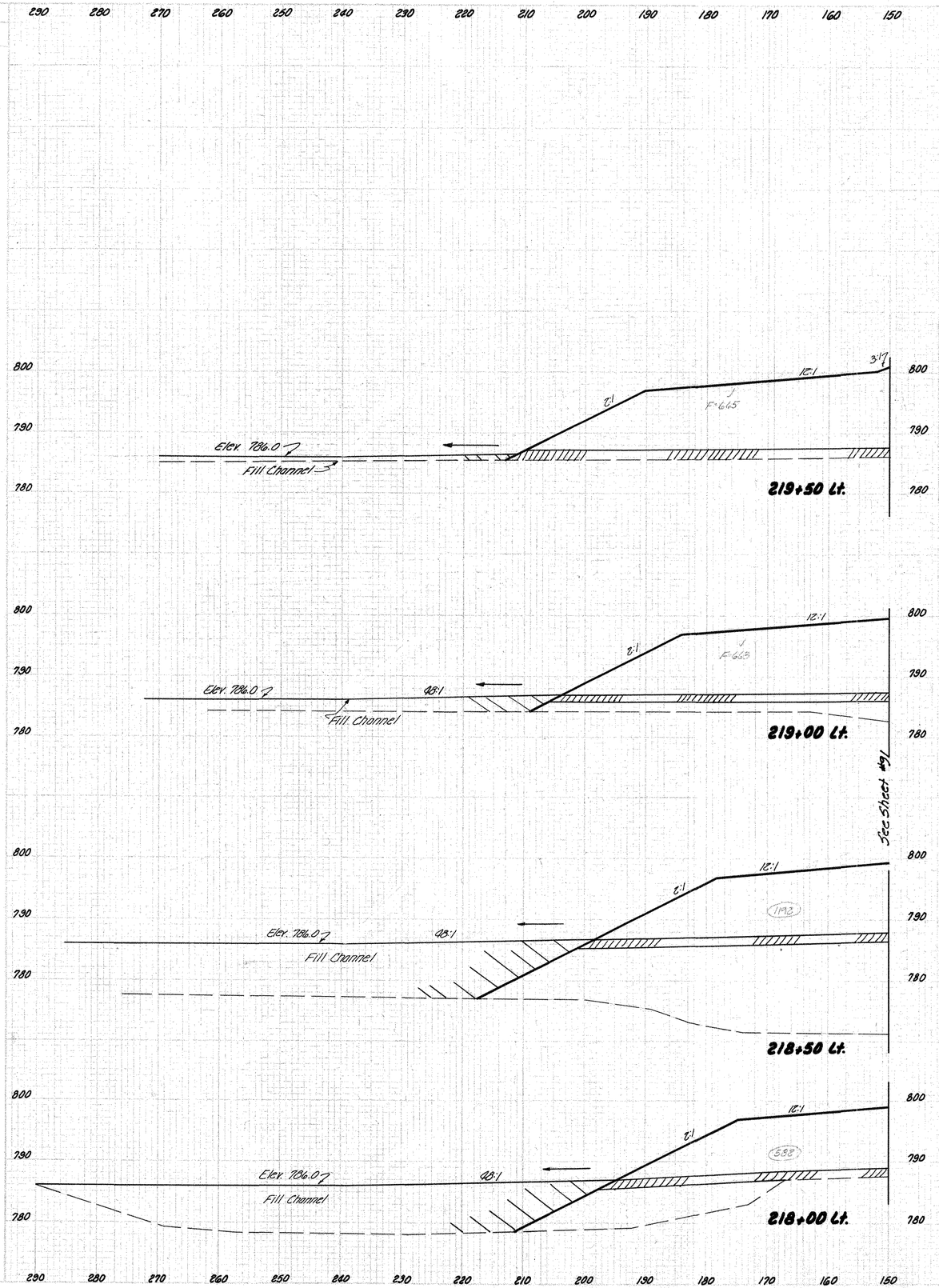
See Sheet No 90

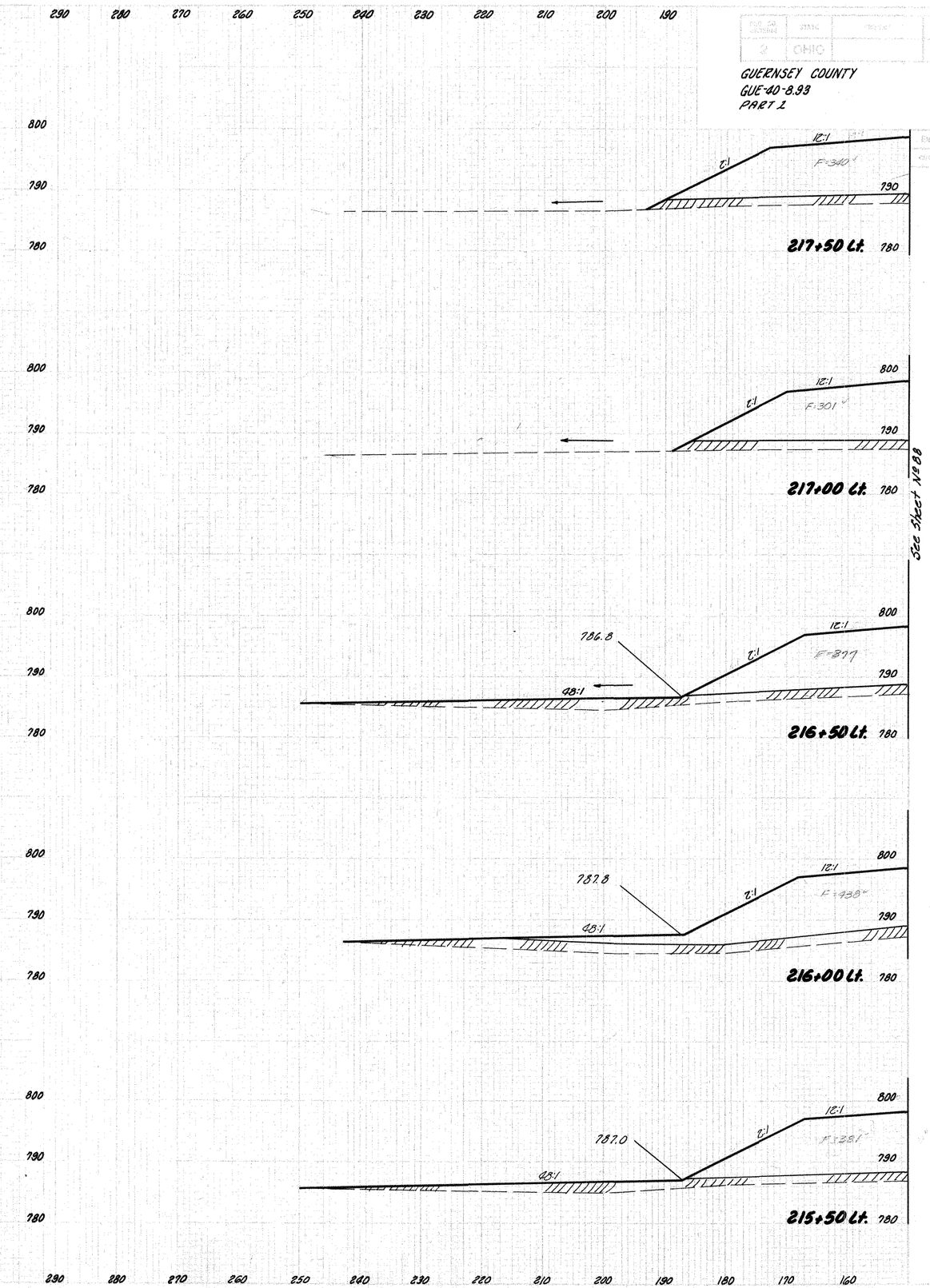
BRIDGE	CULVERT		
2	OHIO		

88
250

GUERNSEY COUNTY
GUE-40-8.93
PART I

GUERNSEY COUNTY
GUE-40-8.93
PART 1





X-SEC. EXTN. LT. 215+50 to 219+50 U.S. 40

SECTIONS
LENG WIDTH

150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410

STATE	COUNTY	PROJECT
2	OHIO	

90
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

CHANNEL CUT & FILL

					END AREAS		VOLUMES
					CUT	FILL	CUT	FILL
39		800	790	780	2:1 F=88	788.2	48:1	217+50 Rt.	C=605	774.15		790 780	605	0	
	208														1088	0
36	See Sheet No 88	800	790	780	F=84 2:1	788.4	48:1	217+00 Rt.	C=570	774.30		790 780	570	0	
	194														1023	0
34		800	790	780	F=104 2:1	787.9	48:1	216+50 Rt.	C=535	774.65		790 780	535	0	
	186														1024	0
33		800	790	780	F=121 2:1	788.0	48:1	216+00 Rt.	C=571	774.60		790 780	571	0	
	175														1015	0
30		800	790	780	1:1 F=133 2:1	788.3	48:1	215+50 Rt.	C=525	774.75		790 780	525	0	
28	161							215+00					469	0	980	0

150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440

X-SEC. EXTN. RT. 215+50 to 217+50 U.S. 40

SEEDING	
L. F.	S. Y.

See Sheet No 89

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120

FED. ROAD SYSTEM	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
2	OHIO		91	250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

Var. Var. Var. 2d:1 3:1 3:1 12:1 3:1 12:1

F=.839 F=.418 Tan Extended

F=3980 F=2630

807.62 807.54

219+50

706.9

Var. Var. Var. 2d:1 3:1 3:1 12:1 3:1 12:1

F=.613 F=.394 Tan Extended

F=3880 F=2490

807.32 807.26

219+00

707.5

Var. Var. Var. 2d:1 3:1 3:1 12:1 3:1 12:1

F=.399 F=.404 Tan Extended

F=3272 F=2470

807.16 807.11

218+50

707.0

Var. Var. Var. 2d:1 3:1 3:1 12:1 3:1 12:1

F=.420 F=.366 Tan. Extended

F=2734 F=2557

807.13 807.10

218+00

706.2

Granular Embankment

217+50

End Areas		Cu. Yds.	
Cut	Fill	Cut	Fill
See Sheet No 90			
0	8,211		
		0	14,971
0	7,958		
		0	14,606
0	7,817		
		0	13,850
0	6,709		
		0	12,158
0	6,422		

140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

U.S. 40 - 218+00 - 219+50

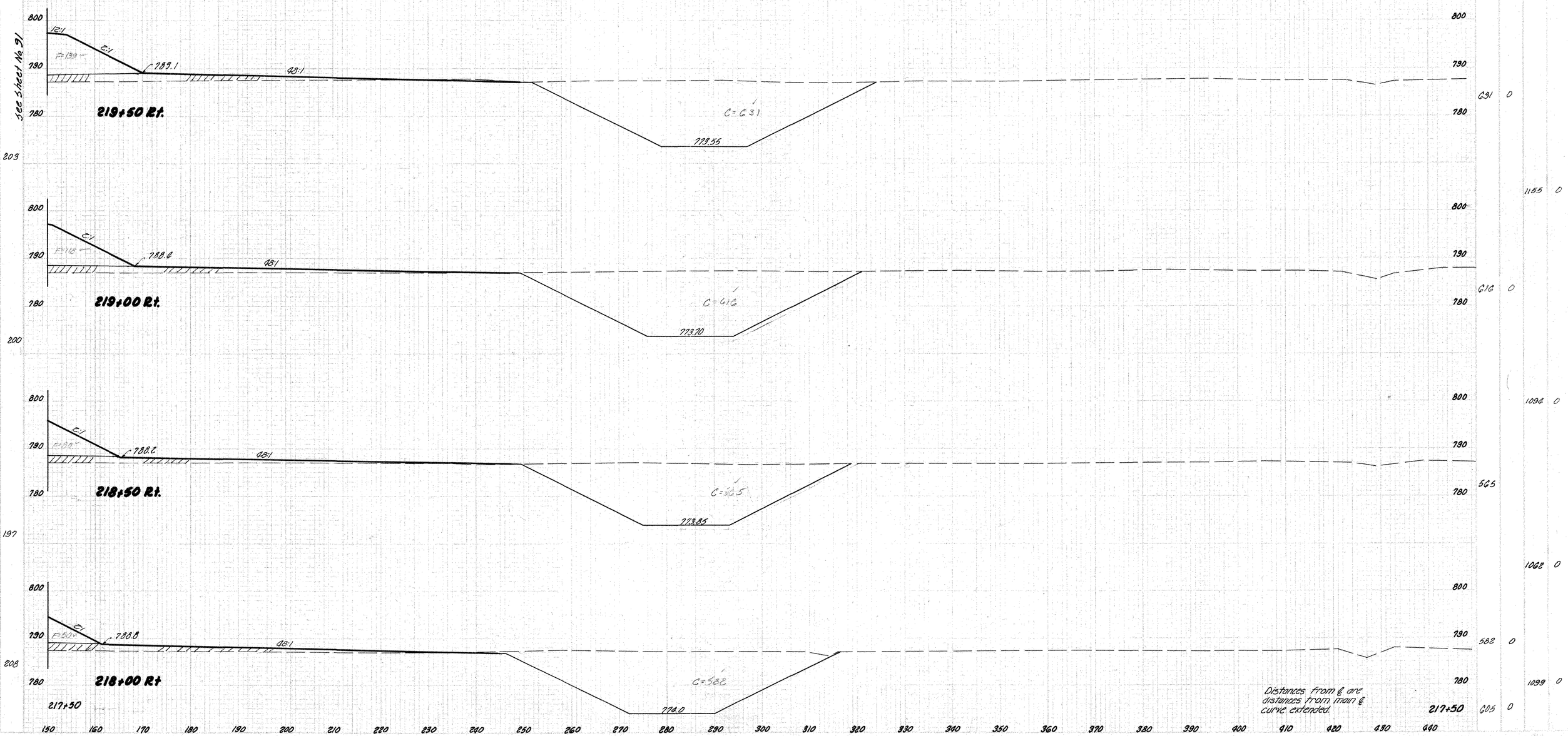
150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410

92
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

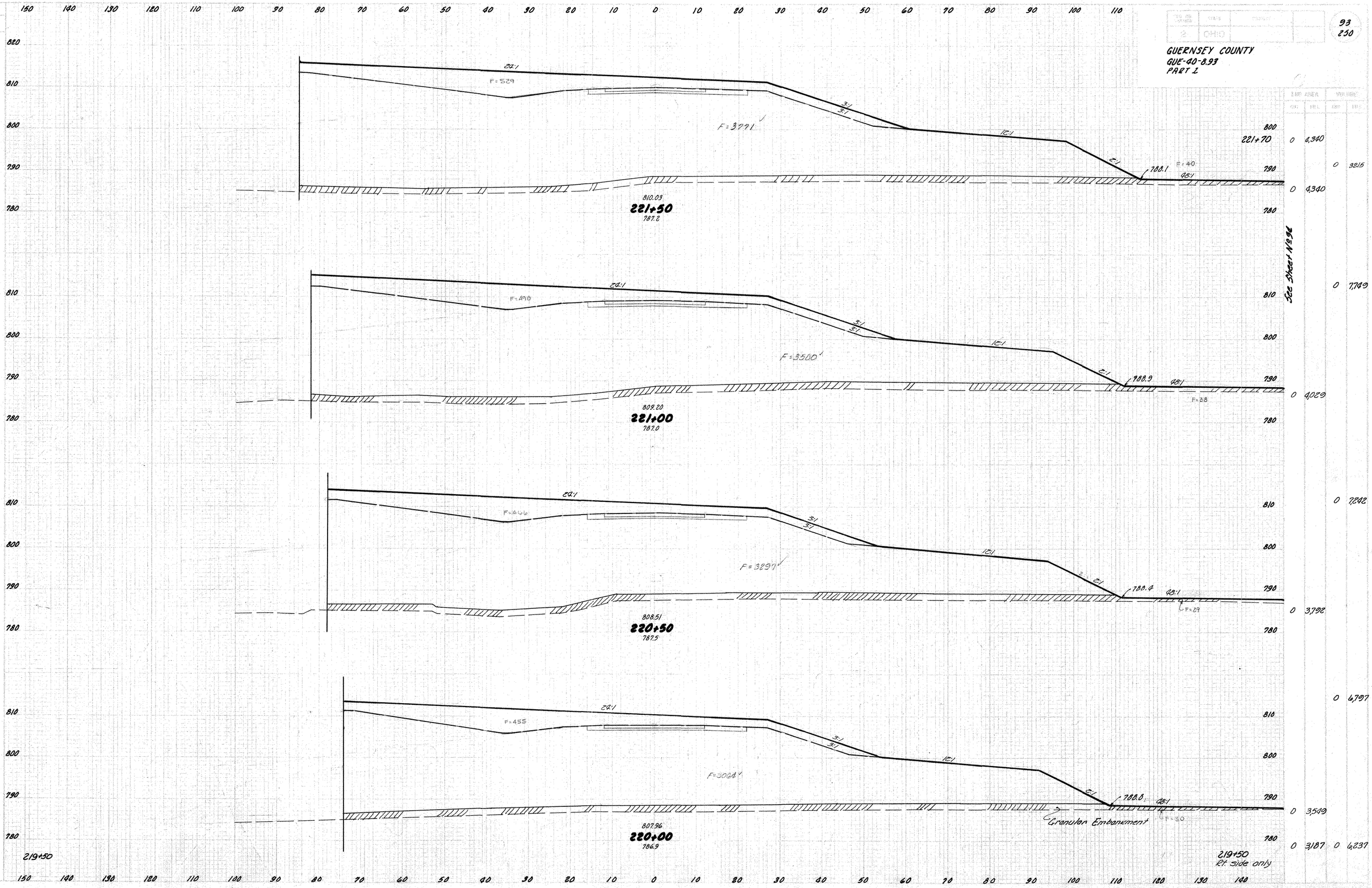
CHANNEL CUT & FILL

EXC. AREA		NEW AREA	
CUT	FILL	CUT	FILL



X-SEC. EXTN. Rt. 218+00 to 219+50 U.S. 40

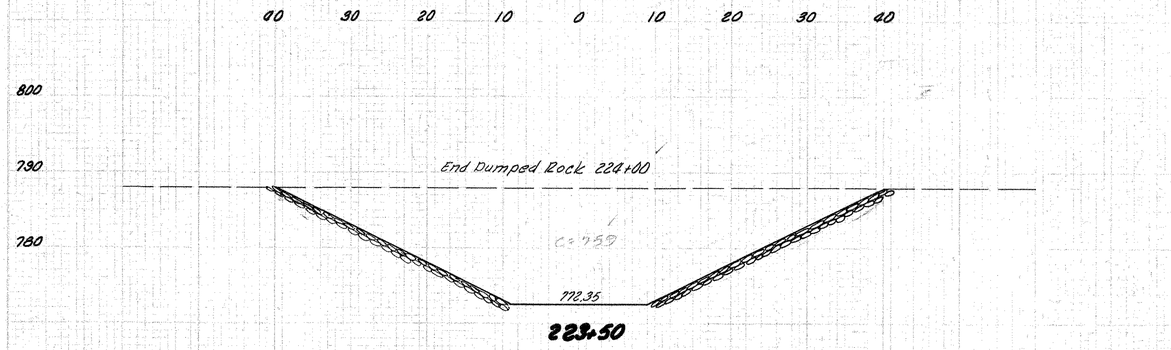
GUERNSEY COUNTY
GUE-40-8.93
PART 1

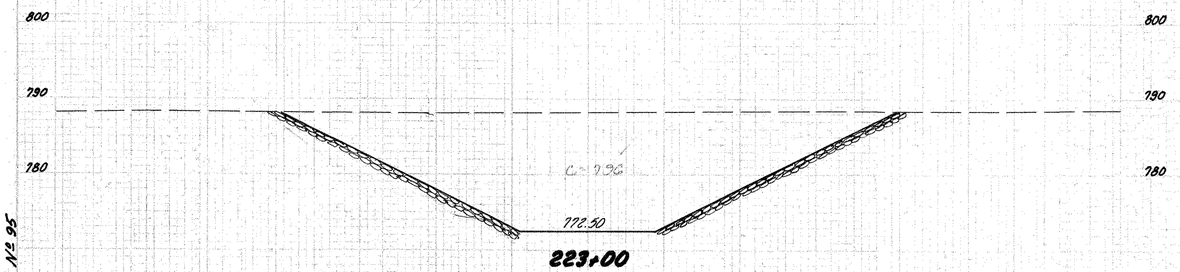


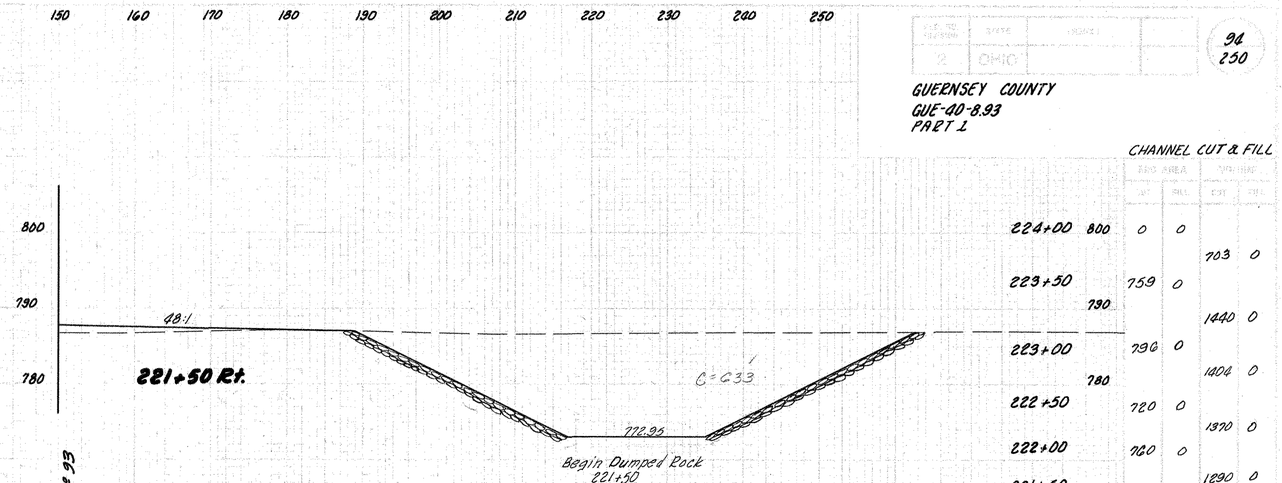
GUERNSEY COUNTY
GUE-40-8.93
PART 1

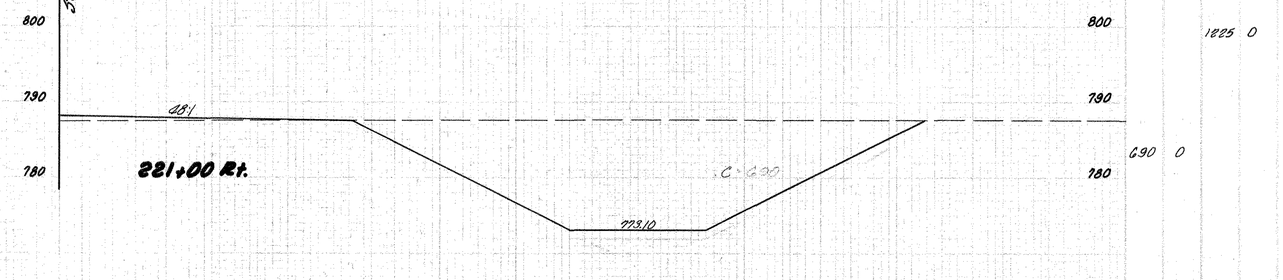
CHANNEL CUT & FILL

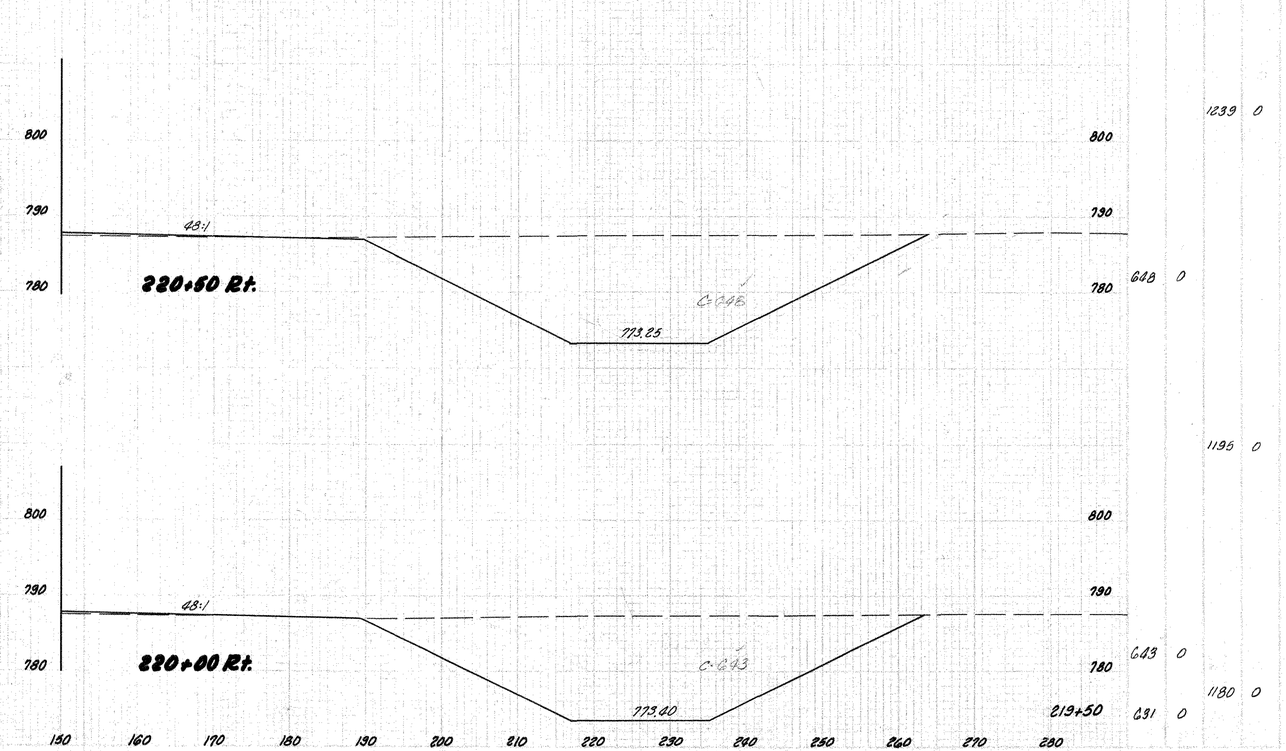
		END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
224+00	800	0	0		
				703	0
223+50		759	0		
	790			1440	0
223+00		796	0		
	780			1404	0
222+50		720	0		
				1370	0
222+00		760	0		
				1290	0
221+50		633	0		
	800			1225	0
	790				
		690	0		
	780				
				1239	0
	800				
	790				
	780	648	0		
				1195	0
	800				
	790				
		643	0		
219+50	780	631	0	1180	0











X-SEC. EXTN. Rt. 220+00 to 223+00 E.B. U.S.40

2	OHIO		

95
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

813.33
223+00
785.3

812.09
222+50
785.6

810.89
222+00
786.7

793.0

F=10.00

Granular Embankment

WILLS CREEK-T.R. 435 STRUCTURE
End Approach Slab 221+88.60

See Sheet No. 9E

222+86	0	0
	0	1650
	0	1040
	0	2989
221+70	0	4340

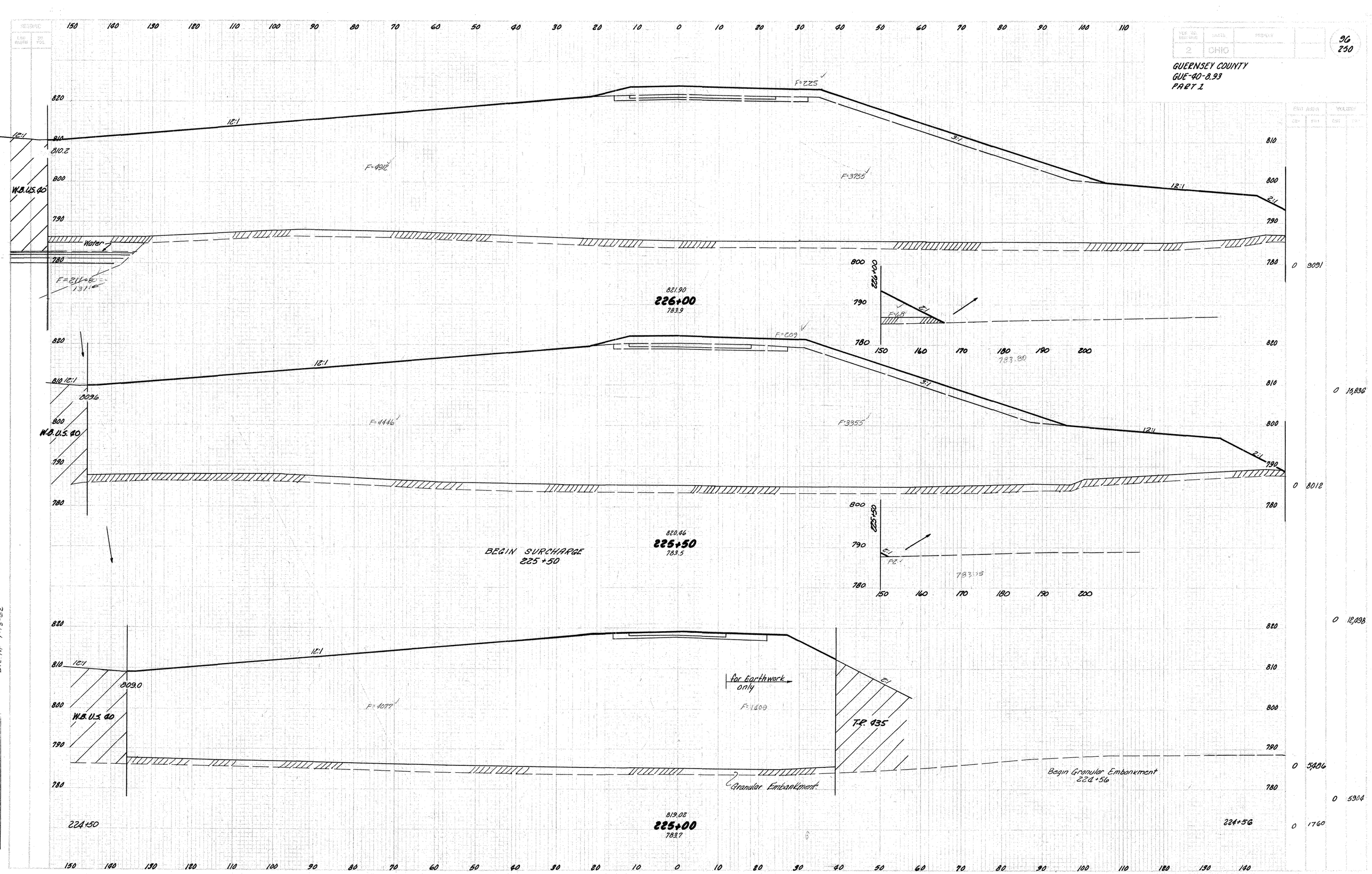
222+00 to 223+00 E.B. U.S. 40

SHEET NO.	STATE	PROJECT	
2	OHIO		

96
250

GUERNSEY COUNTY
GUE-40-8.93
PART 2

END AREA		VOLUME	
CUT	FILL	CUT	FILL



225+00 to 226+00 E.B. U.S. 40

GUERNSEY COUNTY
GUE-40-8.93
PART 1

F=298

12:1

12:1

12:1

W.B. U.S. 40

811.6

F=416

227+50 - Lt.

F = 5467

F=3889

3:1

12:1

Water

0 10,191

12:1

12:1

811.2

W.B. U.S. 40

F=654

227+00 - Lt.

826.22
227+50
786.6

227+50 - Rt.

12:1

F=181

2:1

F=602

12:1 12:1

F = 5924

F=3830

3:1

12:1

0 19,487

Water

227+00 - Rt.

12:1

2:1

F=185

824.78
227+00
786.6

0 10,855

12:1 12:1

810.8

227+50 - Rt.

W.B. U.S. 40

F = 644

Water

12:1 12:1

F=613

12:1 12:1

F = 5493

F=3868

3:1

0 19,670

226+50 - Rt.

2:1

F=135

0 10,389

Water

823.34
226+50
785.3

Granular Embankment

226+00

0 9091

0 18,087

226+50 to 227+50 E.B. U.S. 40

GUERNSEY COUNTY
GUE-40-8.93
PART 1

12-0040.22

F=320

F=1290

F=5310

F=295

F=374

F=5875

F=6570

F=280

F=3684

F=1060

Water Surface ?

829+00
783.0

228+50
782.9

228+00
785.6

227+50

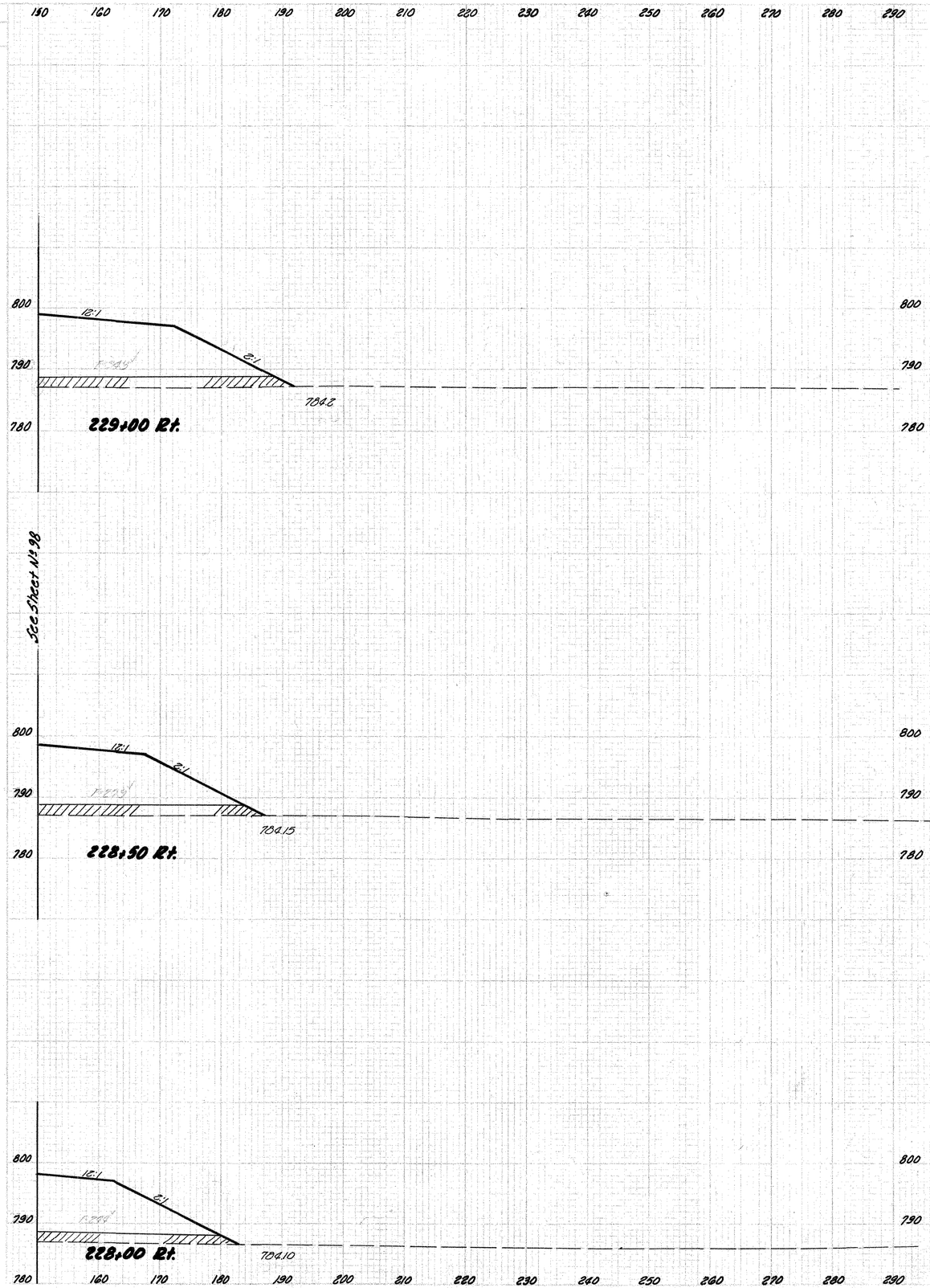
See Sheet No 99

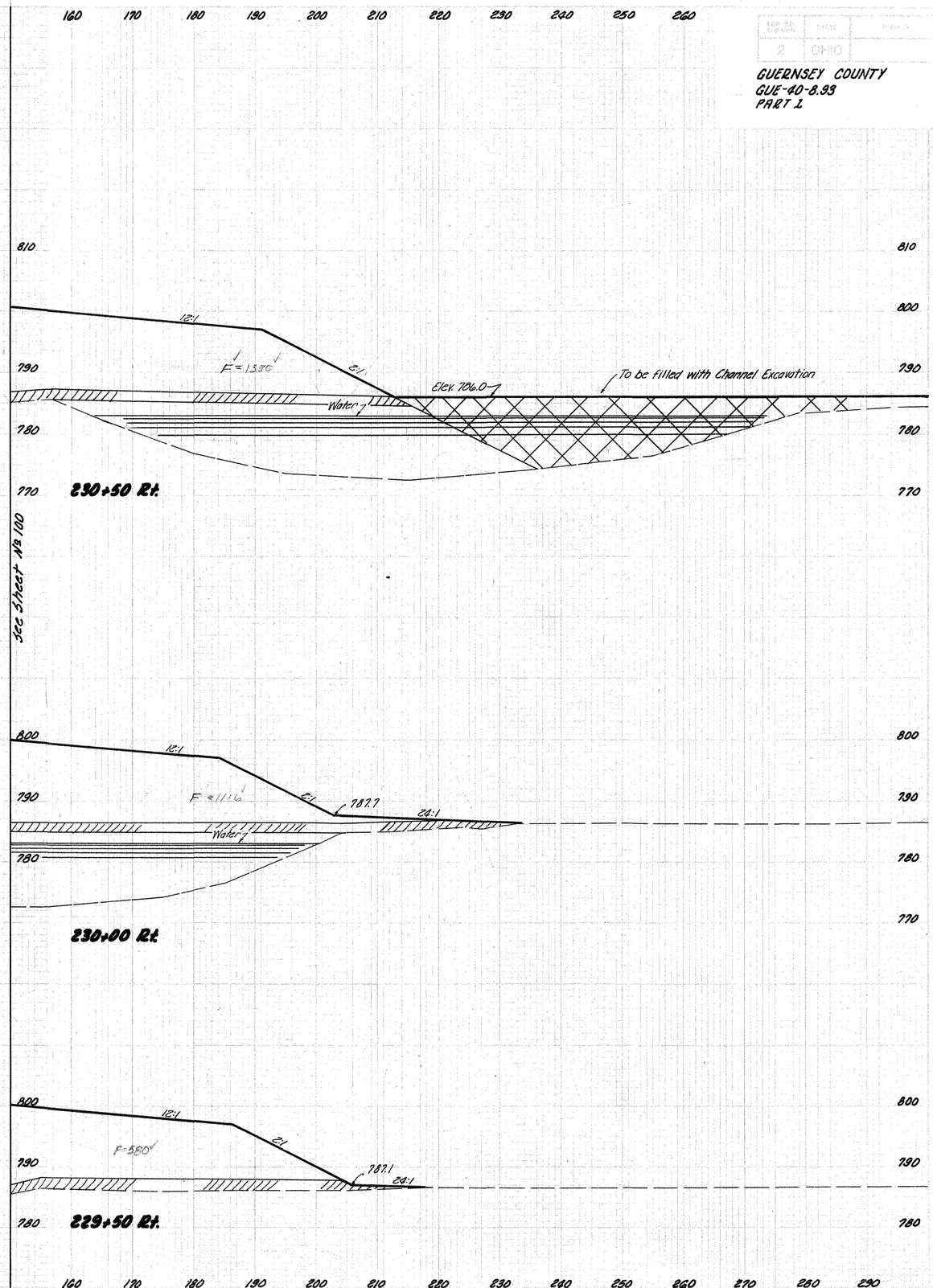
W.B. U.S. 40

Granular Embankment

228+00 to 229+00 E.B. U.S. 40

GUERNSEY COUNTY
GUE-40-8.93
PART 1





X-SEC. EXTN. RT. 228+00 to 230+50 E.B. U.S. 40

GUERNSEY COUNTY
GUE-40-8.93
PART 1

2' above shoulder (typical)
2' above shoulder (typical)
Surcharge
Edge of shoulder typical
12:1
3:1
F=300
F=3558
F=3992
End Surcharge
831+00
End Granular
Embankment 230+50
0 9383
820.7
F=158
12:1
230+50 Lt.
833.86
230+50
800.2
F=326
F=3506
F= 5136
0 18,220
See Sheet 1 of 99
819.2
F=171
12:1
230+00 Lt.
833.62
230+00
801.2
Water
0 19,295
F=307
F=3638
F= 5882
0 19,477
816.2
F=333
12:1
229+50 Lt.
831.98
229+50
788.3
Granular
Embankment
Water
0 19,740
0 19,788
229+00
0 19,566
229+50 to 230+50 E.P. 40

FED. AID SYMBOL	STATE	PROJECT
2	OHIO	

101
250

GUERNSEY COUNTY
GUE-60-8.93
PART 1

	END AREA		VOLUME	
	FILL	CUT	FILL	CUT

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

840
830
820
810
800
790

822.0

2.1

C=.56

12:1

F=3214

F=3679

F=3540

839.18
232+00
801.6

837.74
231+50
801.9

836.30
231+00
801.7

230+50

F=4139

F=3713

F=3203

2:1

2:1

2:1

GUERNSEY COUNTY
GUE-40-8.93
PART 1

102
250

U.S. 40 Ahead
Ramp Ahead
13+53 Ramp "G"
Total Area Back

F=3882
F=3265
F=2850
F=4480
F=2921
F=4366

843.50
233+50
806.6

842.06
233+00
804.0

840.62
232+50
804.2

830.14
830.0
828.0

12:1
2:1
4:1

Ahead 0 3882
Back 0 7147
0 13349
0 7670
0 13494
0 7304
132 13569
143 7351

232+00 to 233+50 E.B. U.S. 40

Checked DLM 7-18-62
Proj. JM 6-12-62
Comp. 4-9-62

DESIGNED	B. Jr.	5/28/62
DETAILED		
CHECKED	JAM	6-28
QUANTITIES COMPUTED		
QUANTITIES CHECKED		

FED. ROAD DIV. NO.	STATE	PROJECT
2	OHIO	

103
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

	FILL AREA		VOLUMES	
	EXIST.	PROP.	CUT	FILL
235+50		0		3,287
235+00		0		4,775
234+50		0		4,320
234+00		0		7,737
233+50		0	4,036	7,331
233+50 AHEAD		0	3,882	

TEMPLATE CHECKED	D.C.S.	3-7-62	
AREAS DETERMINED	E.S.B.	5-31-62	
VOLS. CHECKED	J.H.M.	5-31-62	
ZONE ATTENDED			
ZONE CHECKED			

Revised from Earth Book Dated 4-9-62
PG. 163-JH-4-12-62
Checked D.L.M. 7-16-62

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

850 840 830 820 810

12:1 8372 F=3287 847.26 235+50 825.0 8:1 840.4 7:1 RAMP "G"

12:1 835.5 F=4030 847.82 235+00 819.1 8:1 846.5 4:1 RAMP "G"

℄ Ramp "G"

12:1 8310 F=4320 846.38 234+50 811.2 1':1ft. ½':1ft. RAMP "G"

12:1 832.5 F=4036 844.94 234+00 808.2 1':1ft. ½':1ft. RAMP "G"

233+50

234+00 to 235+50 E.B. U.S. 40

FED. ROAD DIST. NO.	STATE	PROJECT
2	OHIO	

GUERNSEY COUNTY
GUE-40-8.93
PART 2

104
250

CUT AREA SQ. FT.	CUT AREA CU. YDS.	FILL AREA SQ. FT.	FILL AREA CU. YDS.
2246	0		
		3453	0
1983	0		
		1872	57
539	62		
		499	854
0	860		
0	2826		
0	2192		
0	5873		
0	3287		

880
870
860
850
840
830

3:1 C=2246 853.6 856.46 238+00 870.4 856.2 8:1 852.0 RAMP "G" 8:1

8:1 C=1983 852.1 855.02 237+50 865.6 854.8 8:1 851.5 RAMP "G" 8:1

6:1 F=66 C=1 847.0 12:1 C=539 854.8 854.3 8:1 851.0 RAMP "G" 8:1

853.58 237+00 857.5

6:1 843.7 12:1 F=860 850.3 8:1 RAMP "G" 8:1

852.14 236+50 846.4

840.8 12:1 F=2192 849.6 8:1 RAMP "G" 8:1

850.70 236+00 835.1

235+50 235+50

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

236+00 to 238+00 E.B. U.S. 40

FED. RD. DIV. NO.	STATE	PROJECT	
2	OHIO		

105
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

CUT AREA | FILL AREA | TOTAL VOLUME
CUT | FILL | CUT | FILL

S.R. U.S. 21

C=4922

860.78
239+50
900.6

2:1
1:1
4:1
857.9
860.5
859.9

4,922 0

C=3687

858.38
239+00
890.7

2:1
1:1
4:1
856.4
859.0
857.5
4:1

RAMP "G"

6,553 0

9,122 0

C=3299

857.90
238+50
878.7

2:1
1:1
4:1
855.0
857.9
10:1
853.2

RAMP "G"

3299

5,134 0

10,625 0

2,246 0

238+00

238+00

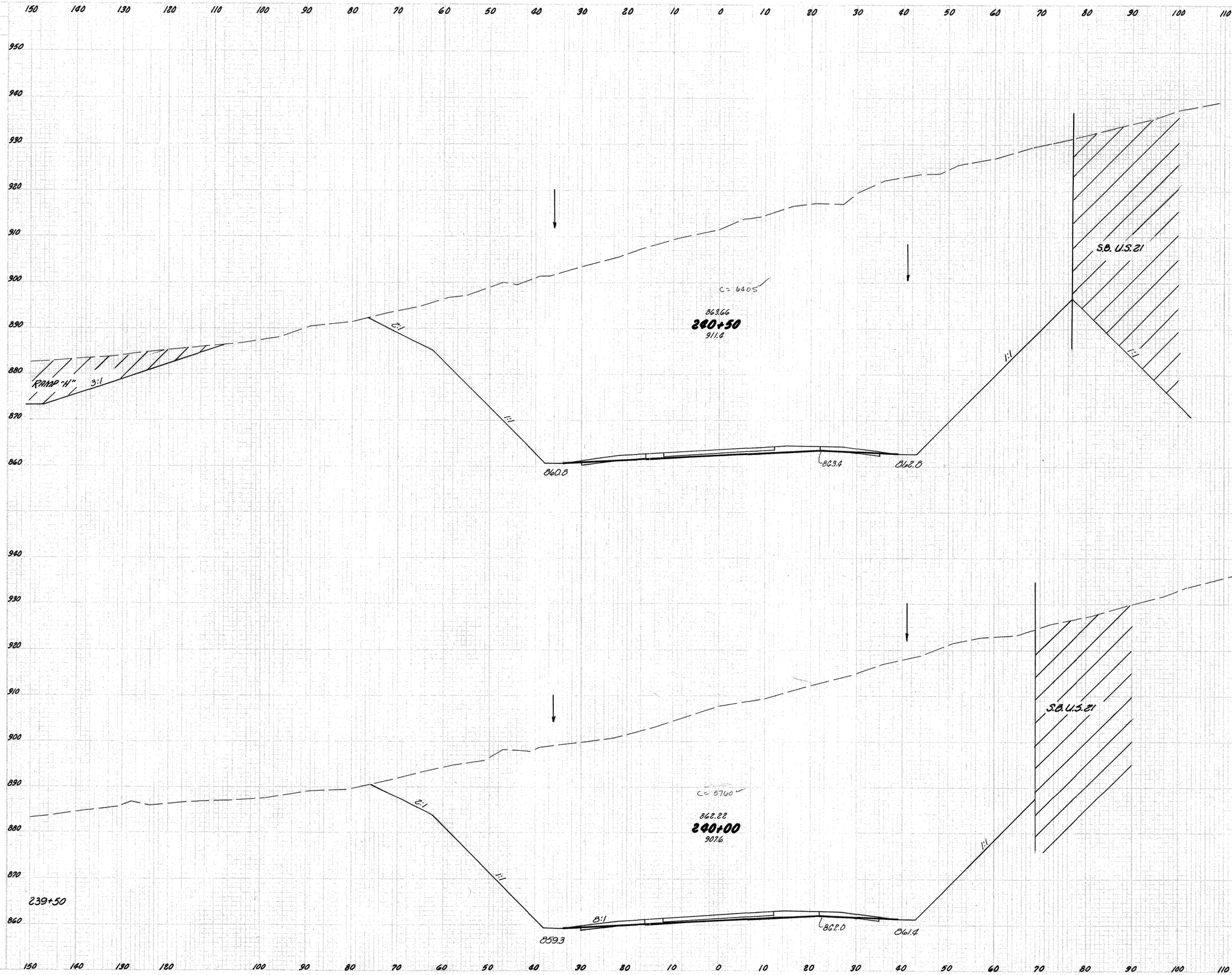
238+50 to 239+50 E.B. U.S. 40

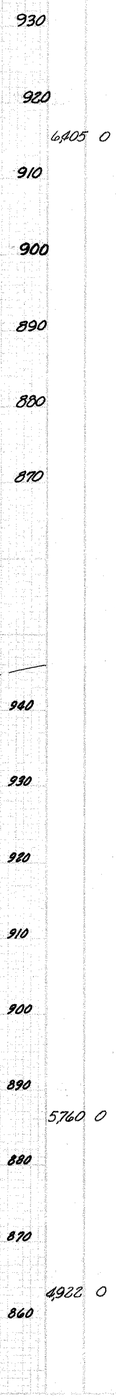
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

106
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

FILL AREA		VOLUME	
EXIST	PROP	EXIST	PROP





240+00 to 240+50 E.B. U.S. 4

CRD 7-18-62 DL.M.

SHEET NO.	STATE	PROJECT
2	OHIO	

107
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

2ND AREA		VOLUME	
CUT	FILL	CUT	FILL
4,007	0		
		8,654	0
5,339	0		
		10,950	0
6,487	0		
		11,937	0
6,405	0		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100

910 900 890 880 870 860

C=4007
86798
242+00
896.9
RAMP "H"
2:1
865.1
868.0
867.1
1:1
2:1

C=5339
866.54
241+50
904.7
RAMP "H"
2:1
1:1
863.6
865.5
865.7
1:1
2:1

S.R. U.S. 21
1:1

C=6487
865.10
241+00
911.6
RAMP "H"
2:1
1:1
240+50
862.2
865.0
864.2
1:1

240+50

150 140 130 120 110 100 90 80 70 60 50 40 30 80 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

241+00 to 242+00 E.B. U.S. 40

SHEETS | SHEET NO. | TOT. NO.

STATE	PROJECT
OHIO	

108
250

GUERNSEY COUNTY
GUE-40-8.93
PART 2

END AREAS: CUT | FILL
VOLUMES: CUT | FILL

243+00
859.5

242+95
859.6

SUSPEND GRADING 242+75
C=0 F=0

242+75
0 0

680 0

1969 0

4332 0

3210 0

6638 0

4007 0

242+00

RAMP "H"

6:1

2:1

4:1

C=1Δ(6)

C=3210

866.5

869.42
242+50
879.2

869.2

868.6

865.7

868.58
242+21
893.7

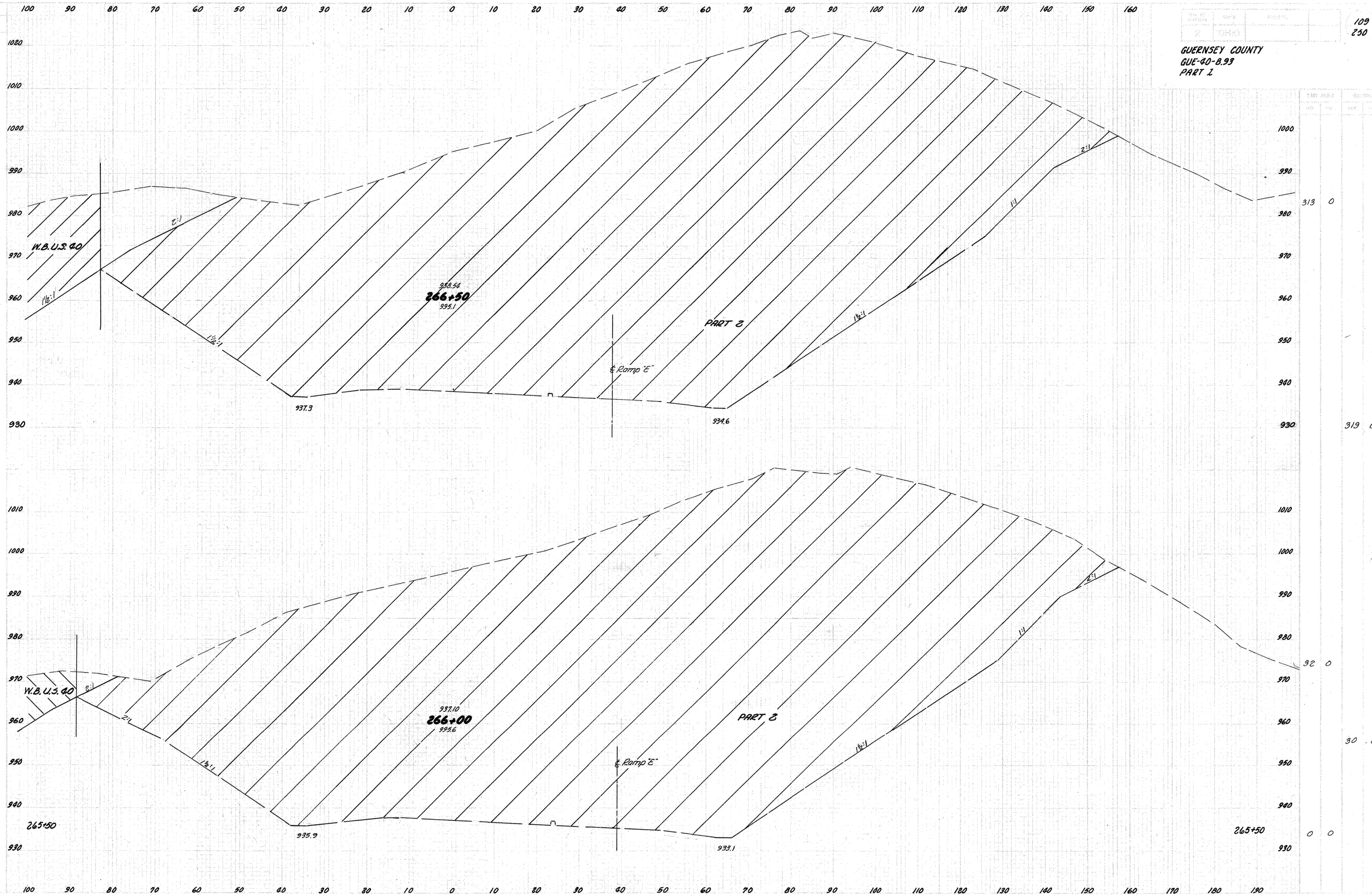
868.0

867.7

242+00

242+21 to 243+00 E.B. U.S. 40

GUERNSEY COUNTY
GUE-40-8.93
PART 2

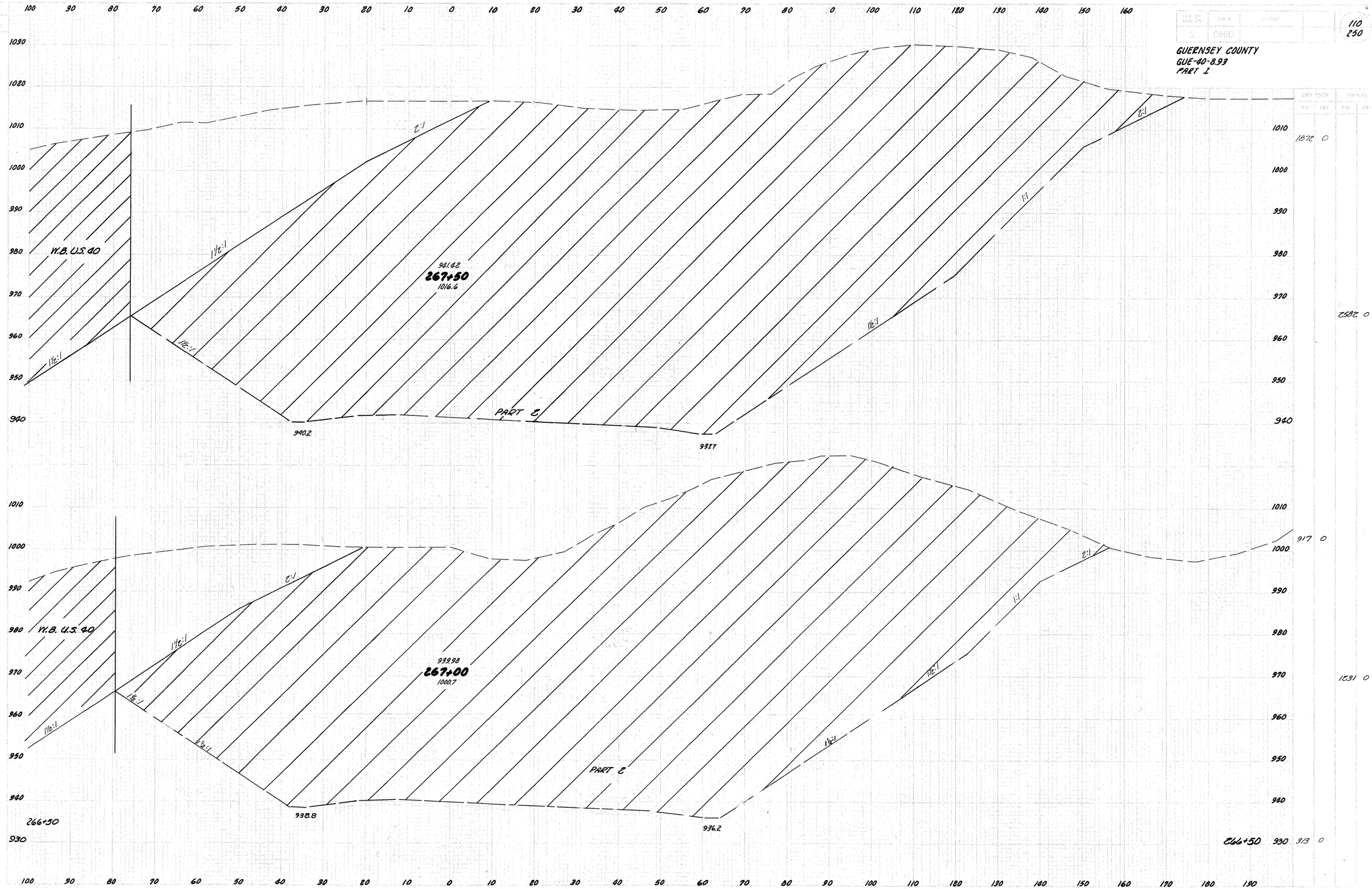


266+00 to 266+50 E.B. U.S. 40

STATE OHIO

110
250

GUERNSEY COUNTY
GUE-40-8.93
PART 2



GUERNSEY COUNTY
GUE-40-8.93
PART 1

W.B. U.S. 40

944.30
268+50
1005.3

943.1

940.6

2:1
1½:1
1:1

867 0

2257 0

W.B. U.S. 40

942.86
268+00
1014.7

939.2

267+50

1571 0

3188 0

1872 0

268+00 to 268+50 E.B. U.S. 40

GUERNSEY COUNTY
GUE-40-8.93
PART 1

W.B. U.S. 40

2:1
2:1
947.18
269+50
978.0
946.0
1½:1
1:1
2:1

W.B. U.S. 40

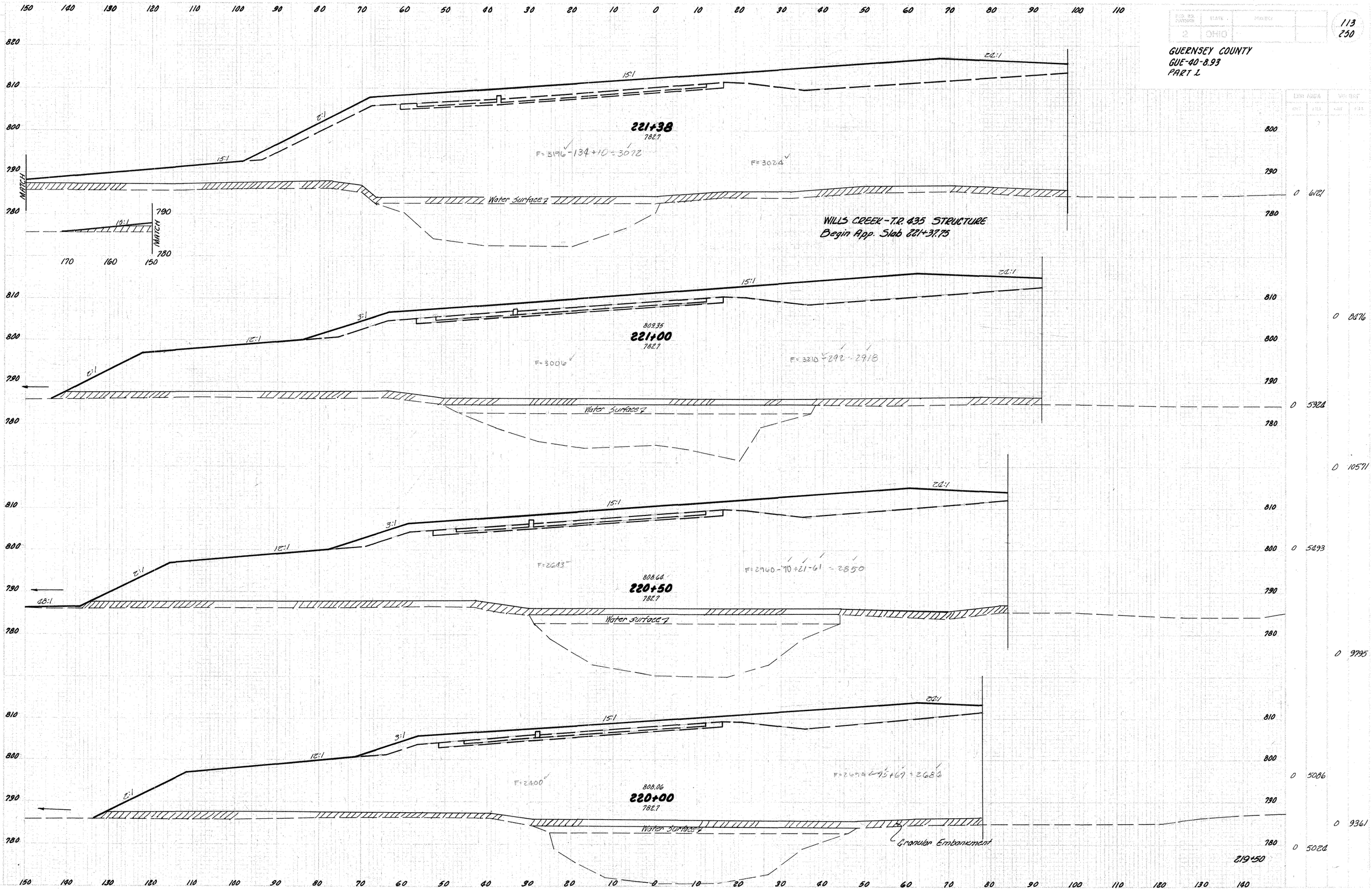
8:1
1½:1
1½:1
965.74
269+00
986.0
944.5
943.6
1½:1
1:1
8:1
942.1

268+50

269+00 to 269+50 E.B. U.S. 40

	FEB. AREA CUT	FEB. AREA FILL	VOLUME CUT	VOLUME FILL
270+00	0	0		
			106	0
	114	0		
			437	0
			358	0
			1134	0
268+50				
			867	0

GUERNSEY COUNTY
GUE-40-8.93
PART 1



SECTION	SHEET NO.
	112
	250

TOTAL SHEETS IN SECTION	STATE	PROJECT
2	OHIO	

GUERNSEY COUNTY
GUE-40-8.93
PART 1

END AREA		VOLUME	
CUT	FILL	CUT	FILL

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

820 810 800 790 780

815.02
223+50
782.7

Water Surface

813.61
223+00
784.8

Water Surface

812.34
222+50
784.3

Water Surface

221+57
782.7

F=1608

F=998

Water Surface

Granular Embankment

221+50

221+38

224+00	0	728	
			0 4529
222+32	0	728	
			0 4353
221+57	0	2406	
			0 3000
221+38	0	6121	

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

222+00 to 223+50 W.B. U.S. 40

GUERNSEY COUNTY
GUE-40-8.93
PART I

F=85
8:1
8:1
12:1
812.7
RAMP "A"
820.96
225+50
787.2
F=2313
F=5324
820
810
800
790
780
0 7702

F=83
8:1
8:1
12:1
812.3
RAMP "A"
819.46
225+00
785.8
F=2040
F=5890
810
800
790
780
770
150 160 170 180
225+50-Ret.
E.B. U.S. 40
F=1102
Water
812.2
12:1
12:1
810
800
790
780
0 14,962

F=81
8:1
8:1
12:1 12:1
811.7
RAMP "A"
817.98
224+50
782.6
F=1910
F=4698
Use For Earthwork
of 224+32
808.8
E.B. U.S. 40
Begin Granular Embankment
224+32
F=256
WILLS CREEK - T.R. 435 STRUCTURE
Begin Approach Slab 224+32.26
809.6
12:1
12:1
12:1
225+00-Ret.
F=386
E.B. U.S. 40
F=5890
810
800
790
780
0 8,999
0 14,670
0 7,845
224+50
0 3,047
224+32
0 7,696

816.50
224+00
782.7
800
790
780

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

224+00 to 225+50 W.B. U.S. 40

STATE	PROJECT
2 OHIO	

116
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

826.0 — 826.8

828.34
228+00
841.0

826.86
227+50
827.5

825.38
227+00
811.2

823.90
226+50
806.5

822.42
226+00
797.6

End Surcharge
227+00

End Granular Embankment
226+00

225+50

C=719 C=1010 C=262 C=379 F=1047 F=1481 F=89 F=122.1 F=2310 F=356 F=1051 F=86 F=1732 F=4000 F=493

8:1 3:1 10:1 12:1

RAMP "A"

Ditch ℄

Water

Granular Embankment

E.B. U.S. 40

819.5 813.1 812.2 810.8 812.9 811.9 811.6 811.2

228+00 – ℄

227+00 – ℄

226+50 – ℄

0 1729
2134 126
CA1 136
594 2,796
0 2,804
0 6879
0 4113
0 12,169
0 6869
0 13,547
0 1762

226+00 to 228+00 W.B. U.S. 40

GUERNSEY COUNTY
GUE-40-8.93
PART 1

C=6487

830.26
230+00
874.7

RAMP 28"

2:1 | 12:1 | 832.4 | P.G.-15" | 831.9 | 1:1 | 1½":1Ft. | 1½:1 | 2:1

829.5

C=1014 | C=3140 | C=3104

832.78
229+50
874.0

2:1 | 1½:1 | ½":1Ft. | 2:1 | 8:1 | 831.0 | P.G.-15" | 830.4 | 1:1 | ½":1Ft. | 1½:1 | 2:1

827.0 Area Ahead

Total Area Back

C=3448 | C=2898

831.30
229+00
869.9

2:1 | 1½:1 | ½":1Ft. | 2:1 | 8:1 | 829.4 | P.G.-15" | 829.1 | 1:1 | ½":1Ft. | 1½:1 | 2:1

826.8

C=2163 | C=2368

829.82
228+50
861.7

2:1 | 1½:1 | ½":1Ft. | 2:1 | 8:1 | 828.0 | P.G.-15" | 827.9 | 1:1 | 1½:1 | 2:1

826.6

228+00

	Cut	Fill
6487	0	
11,788	0	
Ahead 6848		
Back 7258	0	
12,592	0	
6346	0	
10,071	0	
4531	0	
5796	0	
228+00 1729	0	

228+50 to 230+00 W.B. U.S. 40

GUERNSEY COUNTY
GUE-40-8.93
PART 1

C=3214 ✓ C=2709 ✓

840.18
232+00
873.2

P.G.

836.8 ✓ 837.7 ✓

C=857 ✓ F=857 ✓ C=769 ✓ F=769 ✓

COAL MINE & OVERBURDEN REMOVAL & REPLACEMENT

820.0

C=2794 ✓ C=6847 ✓

838.70
231+50
873.9

C=4044 ✓

839.0

836.0 ✓ 836.3

C=503 ✓ F=503 ✓ C=958 ✓ F=958 ✓

COAL MINE & OVERBURDEN REMOVAL & REPLACEMENT

820.0

C=3318 ✓ C=9524 ✓

Total Area Ahead
Area Back | Area Back
11+83.5 Ramp "B" | W.B. U.S. 40

837.22
231+00
873.8

838.5

833.9 ✓ 834.8

C=487 ✓ F=487 ✓ C=869 ✓ F=869 ✓

Fill Line (Typical)

COAL MINE & OVERBURDEN REMOVAL & REPLACEMENT

820.0

C=5464 ✓

835.74
230+50
874.5

RAMP "B"

832.4 ✓ 833.3

P.G.-15"

230+00

Area Ahead 9198 1356
Area Back 5393 869

7599 1022
16,082 8,858
8908 1461
16,809 8208
10,053 805
5,464 0
11,066 0
6,087 0

230+50 to 232+00 W.B. U.S. 40

GUERNSEY COUNTY
GUE-40-8.93
PART 1

PART 2

870 860 850 840

234+50 — 842.58 — 868.5 — C=3338 ✓
P.C. 845.2 — 845.0 — 1:1 — 2:1 — 2:1
C=2212 ✓ F=2212 ✓
COAL MINE & OVERBURDEN REMOVAL & REPLACEMENT 8280.7

234+00 — 846.10 — 870.5 — C=3957 ✓
P.C. 843.7 — 84 — 843.6 — 1/2:1 — 1/2:1 — 2:1 — 2:1
C=2183 ✓ F=2183 ✓
℄ Ditch from Ramp "B"
COAL MINE & OVERBURDEN REMOVAL & REPLACEMENT 8280.7

233+50 — 844.62 — 871.7 — C=4269 ✓
P.C. 842.2 — 842.1 — 8:1 — 8:1 — 1/2:1 — 1/2:1 — 2:1 — 2:1
C=1966 ✓ F=1966 ✓
COAL MINE & OVERBURDEN REMOVAL & REPLACEMENT 8280.7

C=4403 ✓

233+00 — 843.14 — 870.9 — 1/2:1 — 1/2:1 — 2:1 — 2:1
P.C. 841.5 — 840.7 — 8:1 — 8:1
C=1955 ✓ F=1955 ✓
COAL MINE & OVERBURDEN REMOVAL & REPLACEMENT 8280.7

C=5056 ✓

232+50 — 841.66 — 872.0 — 1/2:1 — 1/2:1 — 1:1 — 1:1
P.C. 838.8 — 839.2 — 8:1 — 8:1
C=1768 ✓ F=1768 ✓
COAL MINE & OVERBURDEN REMOVAL & REPLACEMENT 8280.7

232+00

5860	2122	10,721 3986
6130	2183	11,458 3042
6235	1966	11,600 3231
6358	1955	18,206 3887
6824	1768	19308 3143
7549	1822	

232+50 to 234+50 W.B. U.S. 40

SLOPING AREA WIDTH	25

FUTURE SYSTEM	STATE	PROJECT
2	OHIO	

120
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

END AREA		ROUND.	
CUT	FILL	CUT	FILL

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

850 840 830

237+50
828.7

237+00
839.8

850 840 830

850 840

236+50
850.0
SUSPEND GRADING 236+25
C=0 F=0

C=85

P.G.

849.7 — 852.02 — 849.1

C=2687
F=2687

236+00
857.7

COAL MINE & OVERBURDEN REMOVAL & REPLACEMENT

Elev. 828.0

C=1892

3:1 — 2:1 — PART 2 — Bridge Abutment

P.G.

848.2 — 850.54 — 847.6

C=2870
F=2870

235+50
862.9

COAL MINE & OVERBURDEN REMOVAL & REPLACEMENT

Elev. 828.0

C=2770

P.G.

846.7 — 849.06 — 846.4

C=2285
F=2285

235+00
866.6

COAL MINE & OVERBURDEN REMOVAL & REPLACEMENT

Elev. 828.0

234+50

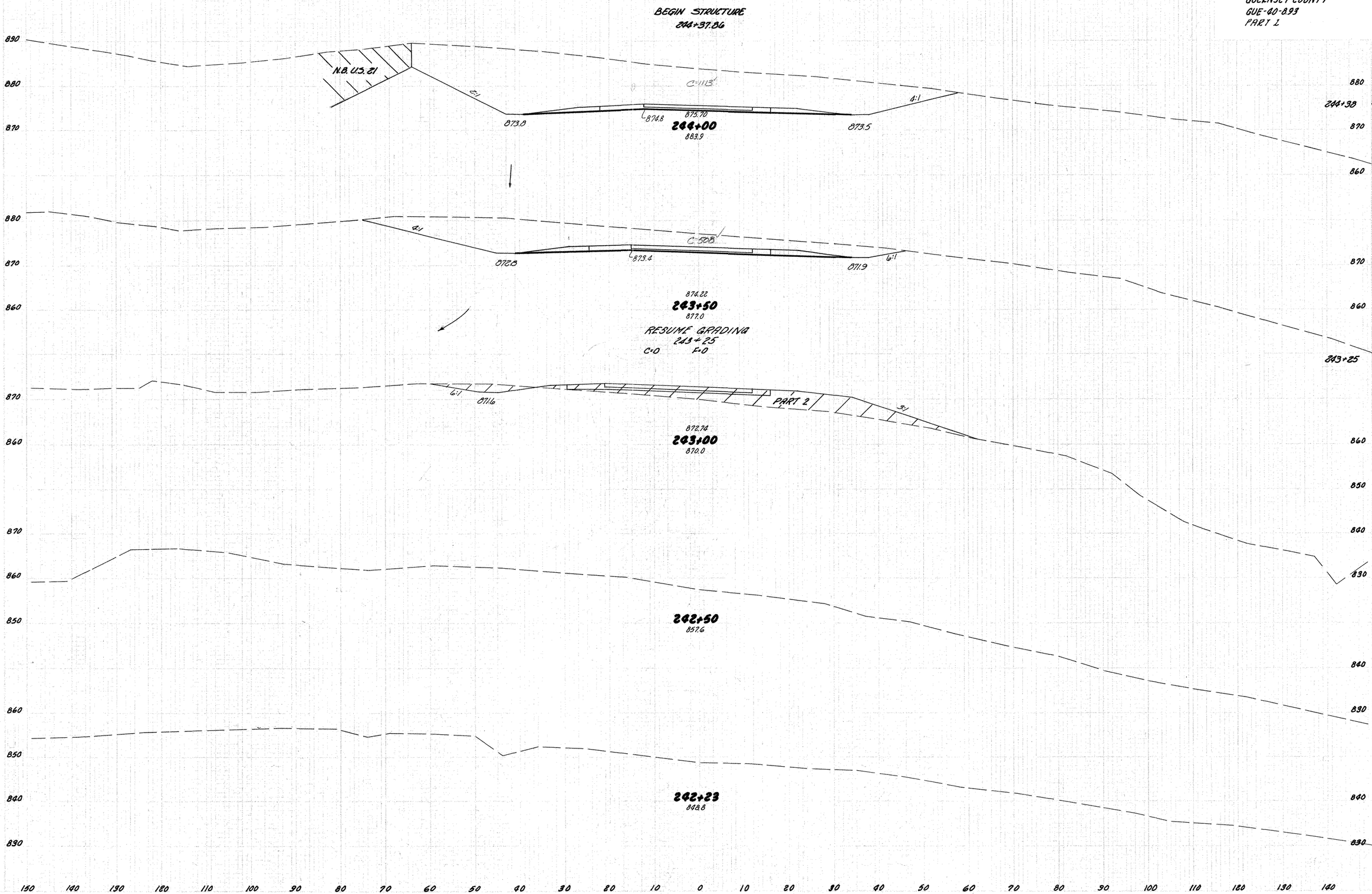
850 840

236+25 0 0
1652 1244
3569 2687
7941 5775
4362 2470
8682 4303
5015 2285
9099 4044
5320 2122

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

235+00 to 237+50 W.B. U.S. 40

GUERNSEY COUNTY
GUE-60-8.93
PART 1



		CUT	FILL	
		SQ FT	SQ FT	
244+38	1,113	0		
	1,566	0		
	1,113	0		
	1,501	0		
	508	0	235	0
243+25	0	0		

242+23 to 244+00 W.B. U.S. 40

GUERNSEY COUNTY
GUE-40-8.93
PART 1

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

930
920
910
900
890
880

N.B. U.S. 21

Var.

1:1

C-CB21

N.B. U.S. 21

CB802

2021 D

890
880
870

881.62
246+00
907.1

END STRUCTURE
245+98.72

920
910
900
890
880
870

245+50
905.0

245+00
897.7

244+50
890.5

244+00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

244+50 to 246+00 W.B. U.S. 40

GUERNSEY COUNTY
GUE-40-8.93
PART 1

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

RAMP "E"

2:1
1:1
2:1
1:1
2:1
1:1
2:1
1:1

C=1539
C=852
C=1966
C=2356

888.2
887.54
P.G.-15"
248+00
897.6

883.8
886.06
P.G.-15"
247+50
892.4

882.5
884.58
247+00
906.6

881.1
883.10
246+50
908.2

8:1
8:1
10:1
10:1

C=395
C=1639
C=1777

882.9
881.5

930 920 910 940 930 920 910 940 930 920 910 900 890 880

880 870 860 880 870 860 890 880 890 880

1,539 0
2,580 0
1,247 0
4,493 0
3,605 0
7,165 0
4,133 0
6,439 0
2,821 0

246+00

246+00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

246+50 to 248+00 W.B. U.S. 40

SUSPEND GRADING
251+00
C=0 F=0

GUERNSEY COUNTY
GUE-40-8.93
PART 1

RAMP "C"

251+00
893.8
894.94
250+50
893.9
891.1
893.46
250+00
896.5
889.7
891.98
249+50
899.7
888.8
890.50
249+00
900.8
886.7
889.08
248+50
901.4

C=242
C=560
C=1107
C=1409
C=1778

P.G.-15"

PART 2

250+50-Rt.
875.8
250+00-Rt.
872.6
249+50-Rt.
869.5

1:1
2:1
8:1

RAMP AREA	
CUT	FILL
0	0
224	0
282	0
743	0
560	0
1544	0
1,107	0
2,328	0
1,607	0
2,949	0
1,778	0
3,071	0
1,539	0

248+50 to 250+50 W.B. U.S. 40

GUERNSEY COUNTY
GUE-40-8.93
PART 1

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

970 960 950 940 930 920

2:1 1½:1 922.2 P.G.-15" 922.4 3:1 PART 2

C=4640
924.56
260+50
954.7

FND AREA CUT 4,640 FILL 0

C=4262
923.06
260+00
952.6

2:1 1½:1 920.7 P.G.-15" 921.0 4:1 PART 2

FND AREA CUT 4,262 FILL 0

C=6719 FILL 6,719 0

C=2995
921.58
259+50
945.2

2:1 1½:1 919.2 P.G.-15" 919.5 4:1 PART 2

FND AREA CUT 2,995 FILL 0

C=4107 FILL 4,107 0

C=1441
920.10
259+00
929.3

6:1 917.8 P.G.-15" 918.6 5:1 PART 2

FND AREA CUT 1,441 FILL 667 0

C=667 FILL 0 0

258+50

RESUME GRADING 258+75
C=0 F=0

258+75

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

259+00 to 260+50 W.B. U.S. 40

GUERNSEY COUNTY
GUE-40-8.93
PART 1

126
250

CKV D.I.M. 7-18-62

Pr. Grade from Prof. Grade - 4.5-1.2

Prof. Grade - Ground - 0 - 1.62

	BY	DATE
EXISTING PLOTTED	RCF-RMO	3-19-62
EXISTING CHECKED	JAM-RMS	3-19-62
TEMPLATE PLOTTED	D.C.T.-W.B.C.	3-21-62
TEMPLATE CHECKED	JAM	3-25-62
AREAS DETERMINED	JAM	3-25-62
AREAS CHECKED	JAM	3-25-62
"D" VOLUMES DETERMINED		
"D" VOLUMES CHECKED		

C=968
C=3000
C=1952
C=3171
C=3825
C=4432
C=1306
C=3723
C=1369

930.46
262+50
969.5

928.1
928.2

928.98
262+00
964.4

926.6
926.9

927.50
261+50
959.4

925.2
925.6

926.08
261+00
953.4

923.7
923.9

260+50

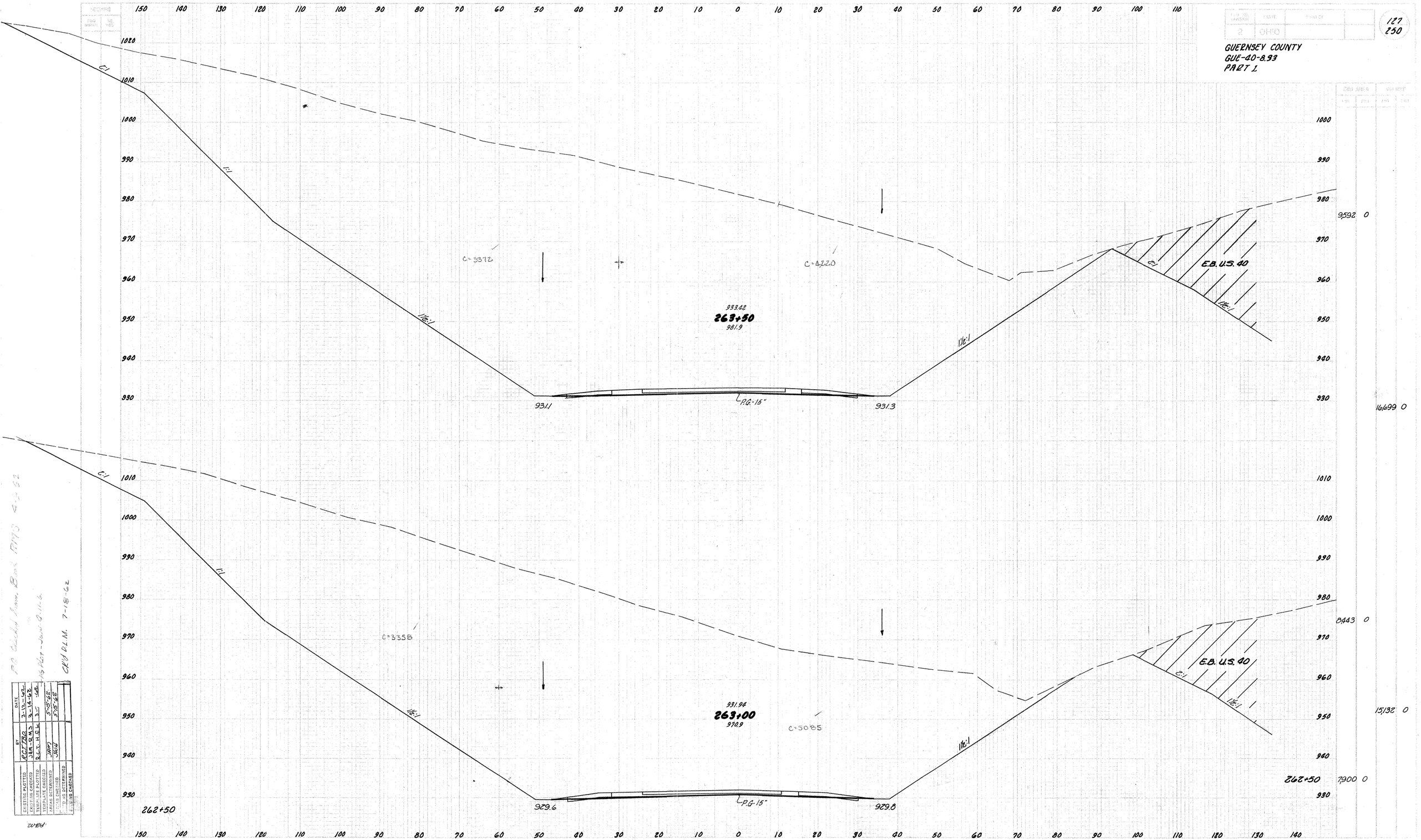
E.B. U.S. 40
2:1
1½:1

7,900 0
13,793 0
6,996 0
11,809 0
5,758 0
10,046 0
5,092 0
9,011 0
4,640 0

PART 2

261+00 to 262+50 W.B. U.S. 40

GUERNSEY COUNTY
GUE-40-8.93
PART 1



	BY	DATE
EXISTING PLOTTED	KAY ZIRK	3-13-62
EXISTING CHECKED	K.M.K.	3-14-62
TEMP. SEE PLOTTED	D.G.T. H.G.K.	3-[illegible]
TEMPLATE CHECKED	JMH	5-25-62
AREAS DETERMINED	JMH	5-25-62
T-S-15 CHECKED		
T-S-NO DETERMINED		
L. SUMS CHECKED		

PO Sheet from Book 1993 4-2-62

CPD D.L.M. 7-18-62

GUERNSEY COUNTY
GUE-40-8.93
PART 1

128
250

200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

1040 1030 1020 1010 1000 990 980 970 960 950 940 930

2:1
1:1
1½:1
C=3595
936.38
264+50
987.5
C=7163
934.1
P.G.-15"
934.3
E.B. U.S. 40
10,750 O
19,520 O
1020 1010 1000 990 980 970 960 950 940 930
2:1
1:1
1½:1
C=3865
934.90
264+00
984.2
C=6055
932.6
P.G.-15"
932.8
E.B. U.S. 40
10,324 O
10,141 O
9,592 O
263+50
263+50

200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90

264+00 to 264+50 W.B. U.S. 40

GUERNSEY COUNTY
GUE-40-8.93
PART I

C=4657

C=4309

C=8470

C=7426

93934
265+50
1003.1

937.86
265+00
993.8

937.0

937.2

935.5

935.0

P.G.-15"

P.G.-15"

E.B. U.S. 40

E.B. U.S. 40

13,127 O

23,020 O

11,735 O

20,827 O

10,758 O

264+50

264+50

265+00 to 265+50 W.B. U.S. 40

GUERNSEY COUNTY
GUE-40-8.93
PART 1

130
250

200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

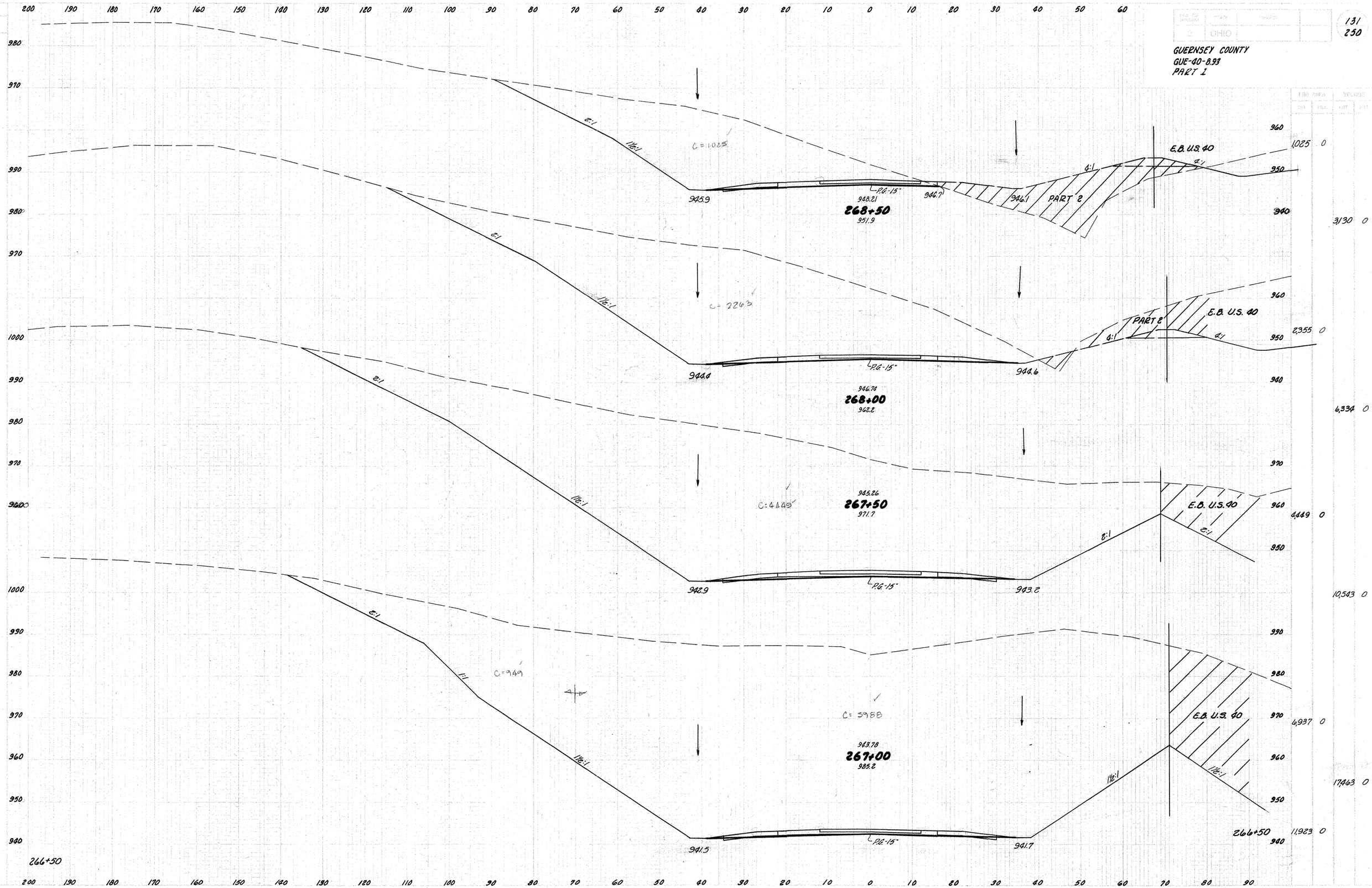
1040 1030 1020 1010 1000 990 980 970 960 950 940

2:1
1:1
1½:1
1½:1
C=4709
C=7239
C=3,032
C=10,597
942.30
266+50
1005.5
940.82
266+00
1011.4
940.0
940.2
938.5
938.7
P.G.-15"
114' Rt.
C=0 F=0
Vol.=766
Channel @ 265+82
C=1118
77' Rt.
C=1118 F=0
Vol.=807
38' Rt.
C=0 F=0
265+50
E.B. U.S. 40
11,923 0
23,636 0
24,751 0
13,604 0
13,127 0

266+00 to 266+50 W.B. U.S. 40

131
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1



267+00 to 268+50 W.B. U.S. 40

GUERNSEY COUNTY
GUE-40-8.93
PART 1

E.B. U.S. 40

4:1
6:1
940.2
953.57
270+50
922.7
951.5
945.0
952.31
270+00
921.1
950.6
948.7
951.00
269+50
932.9
948.9
END GRADING 269+50
C=0 F=0
C=2.78
947.3
948.0
947.5
949.63
269+00
942.3
268+50

0 0
258 0
278 0
1206 0
1025 0

269+00 to 270+50 W.B. U.S. 40

GUERNSEY COUNTY
GUE-40-8.93
PART 2

133
250

C=2570

8:1 ½ Lift

P.G. -15°

861.5

863.92
435+00
879.2

860.8

C=820

8:1

861.3

863.0

863.63
434+50
865.8

860.7

Add for outlet ditch Lt.

Construct Outlet Ditch to Lt
4' Bottom ~ 2:1 Slopes

861.2 (Ex.)

863.29
434+00
863.0

BEGIN GRADING — 434+00
C=0 F=0

860.2 (Ex.)

433+50
868.1

433+00
874.8

	EMB AREA		SUB AREA	
	CUT	FILL	CUT	FILL
	2,570	0		
			3139	0
	820	0		
			330	
			759	0
434+00	0	0		

433+00 to 435+00 N.B. U.S. 21

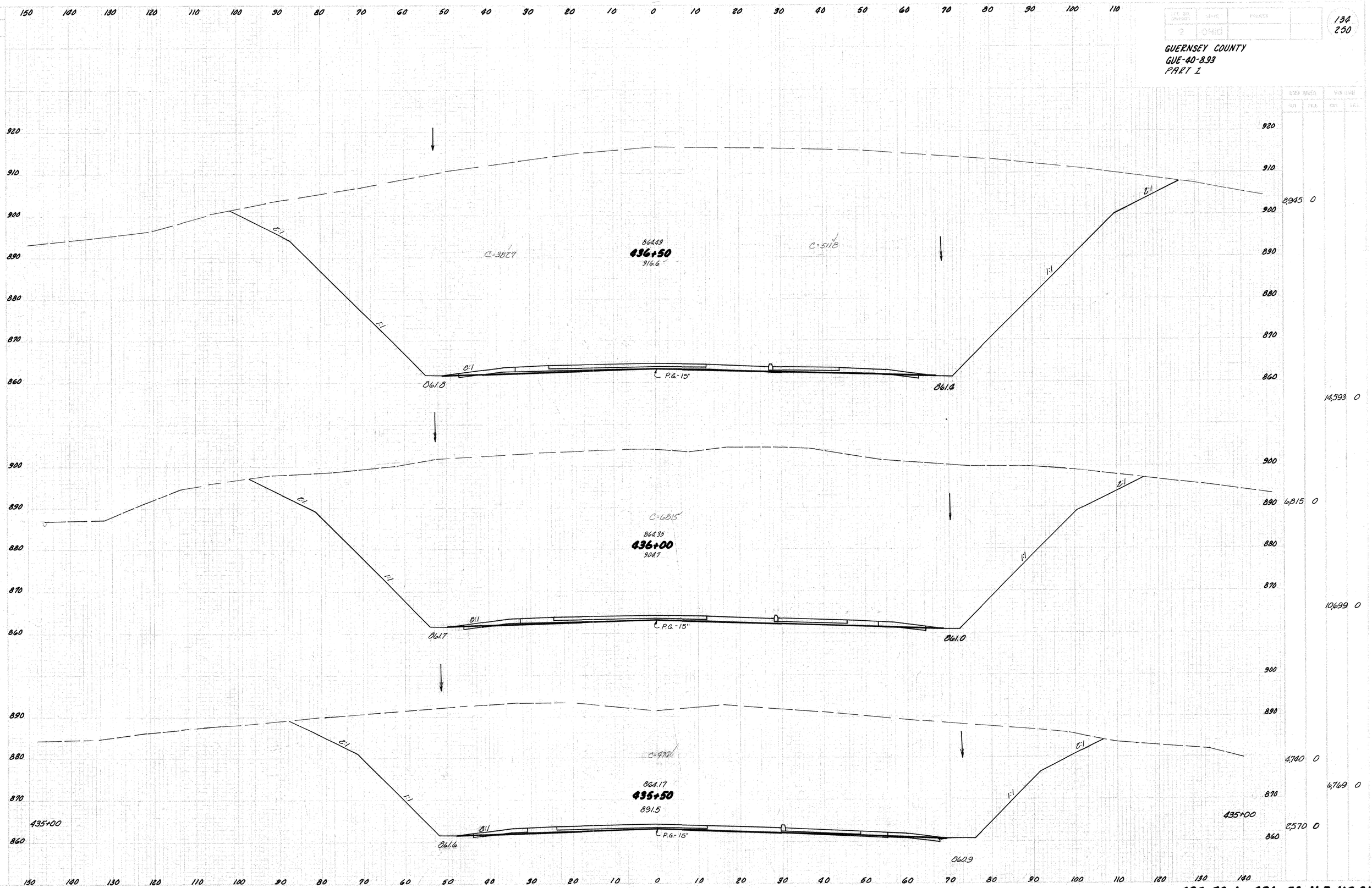
SHEET NO.	SHEETS
2	0410

GUERNSEY COUNTY
GUE-40-8.93
PART I

134
250

AREA	
CUT	FILL

VOLUME	
CUT	FILL

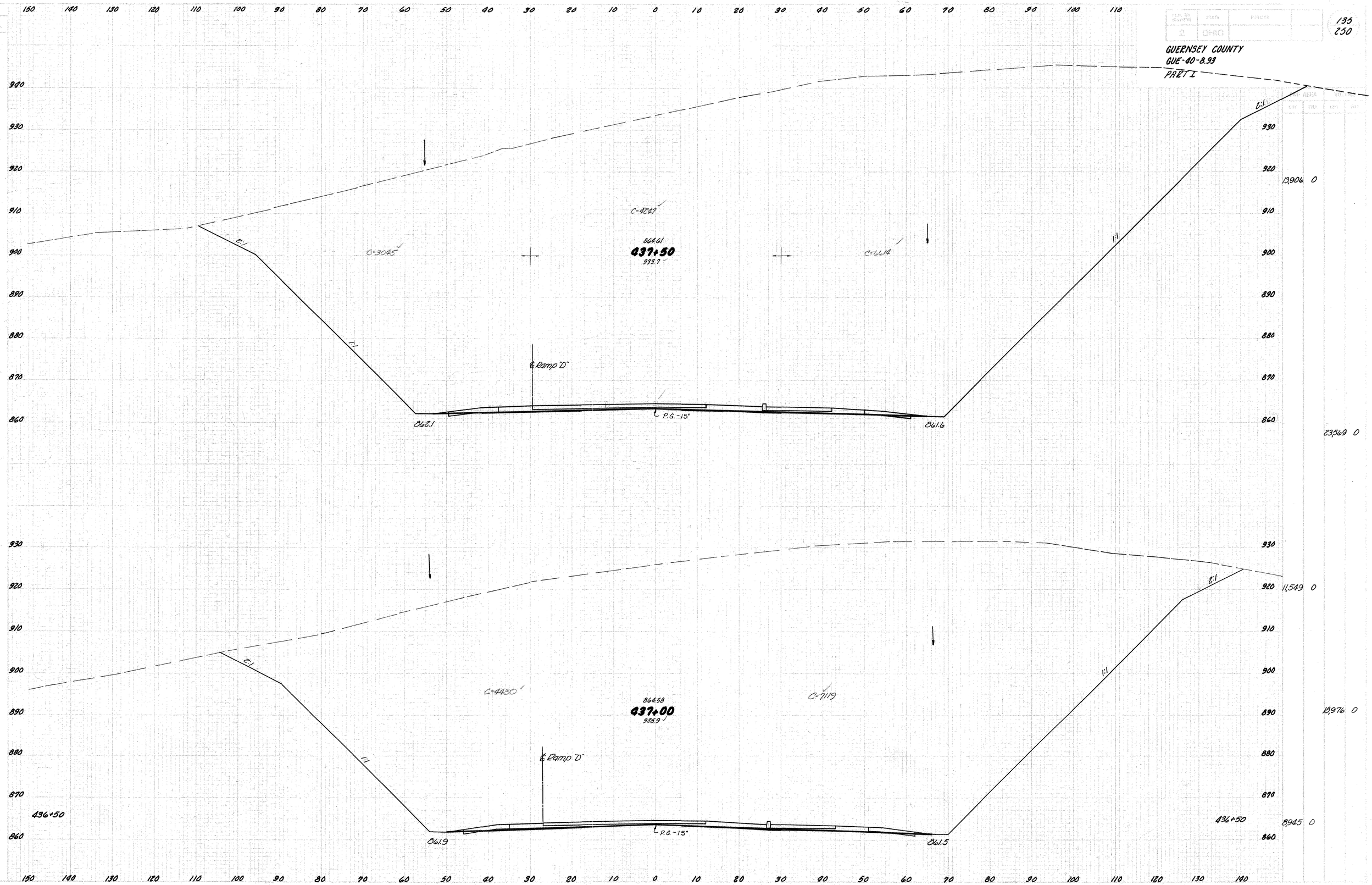


435+50 to 436+50 N.B. U.S. 21

C.R.O. D.L.M. 7-18-22

FED. RD. DIVISION | STATE | PROJECT | | 135 250
2 | OHIO | | |

GUERNSEY COUNTY
GUE-40-8.93
PART I



437+00 to 437+50 N.B. U.S. 21

SPEDING

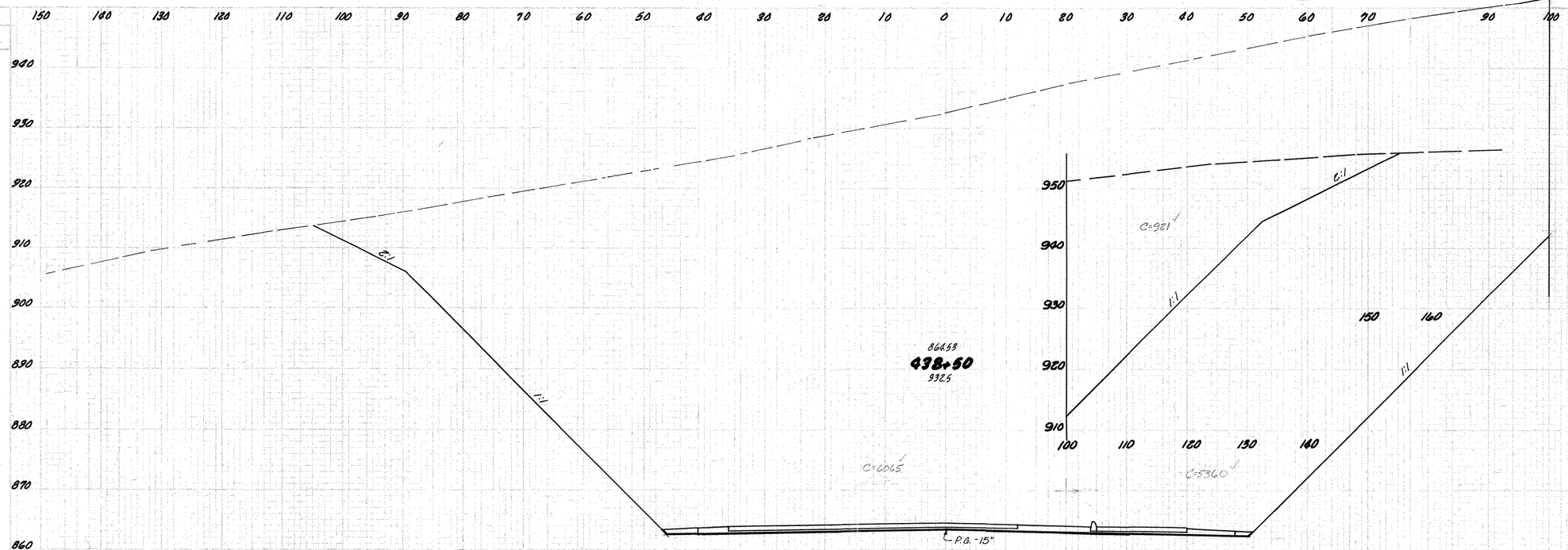
LNO	ALIGN	ALIGN TYPE

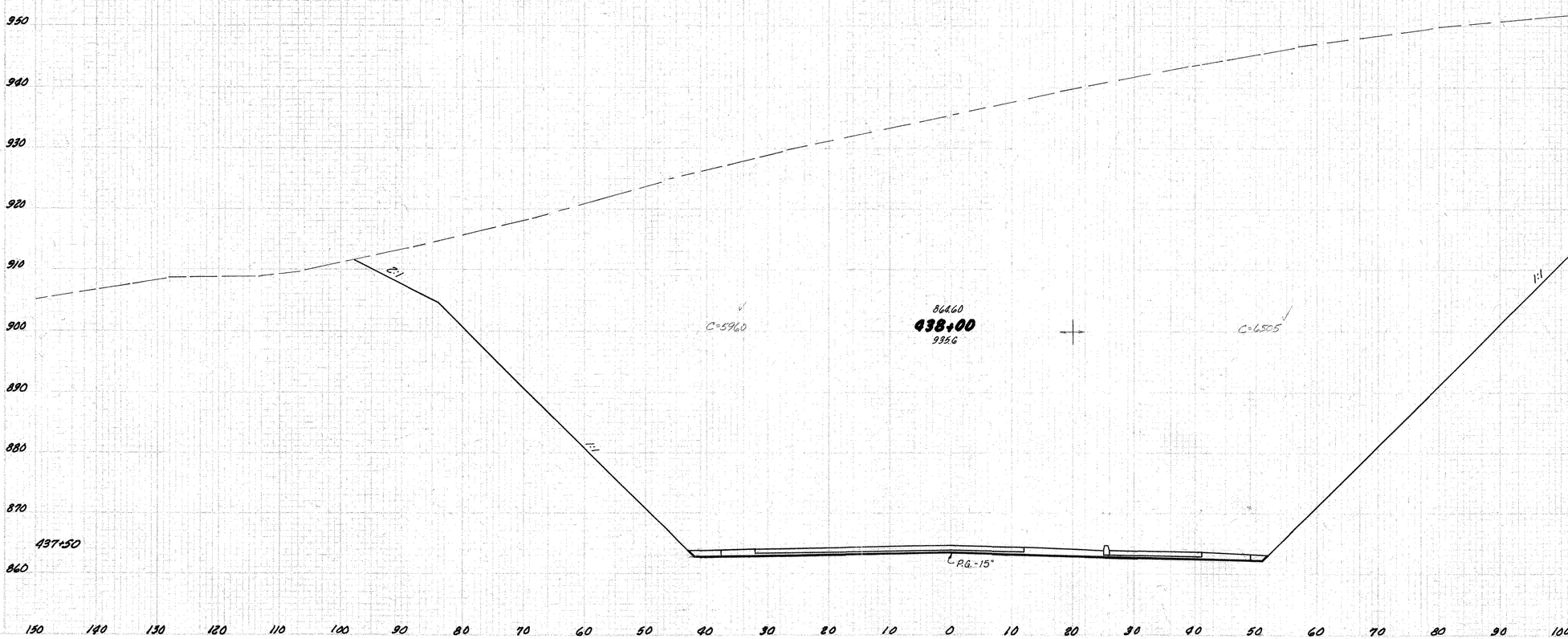
DIST NO	STATE	PROJECT	
2	OHIO		

136
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

CUT	FILL	CUT	FILL





438+00 to 438+50 N.B. U.S. 21

GUERNSEY COUNTY
GUE-40-8.93
PART I

END AREA VOLUME
CUT FILL CUT FILL

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

940 930 920 910 900 890 880 870 860

C=5235 C=6322

86423
439+50
920.8

861.6 861.6

℄ P.G. - 15"

920 910 900 890 880 870 860

11,557 0

22,645 0

950 940 930 920 910 900 890 880 870 860

C=7225 C=5615

86421
439+00
928.8

438+50 861.7

12,390 0

23,376 0

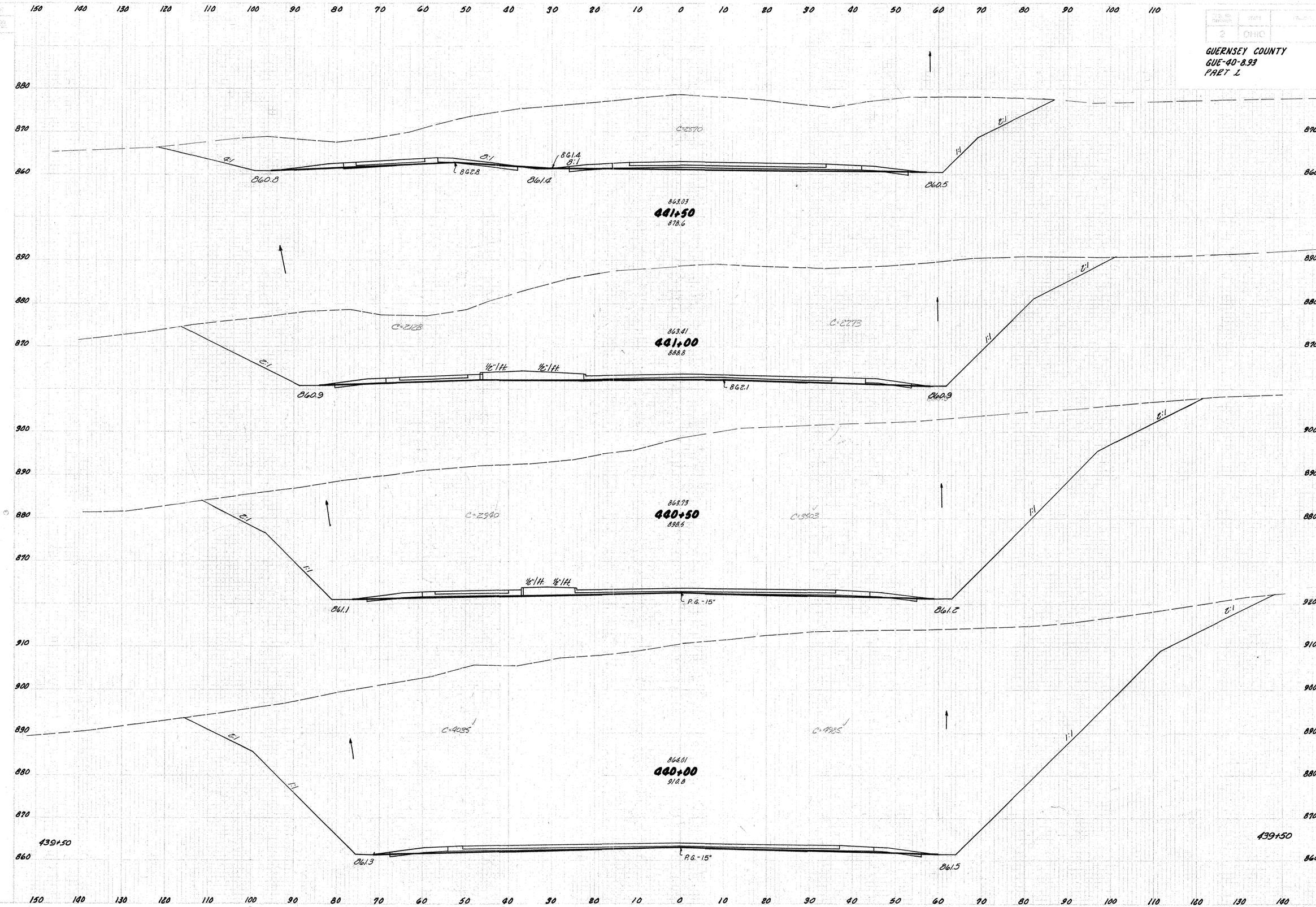
18,396 0

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

439+00 to 439+50 N.B. U.S. 21

GUERNSEY COUNTY
GUE-40-8.93
PART 1

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		2,570	0
		6,455	0
		4,401	0
		10,041	0
		6,443	0
		14,318	0
		9,080	0
		19,053	0
		11,557	0



440+00 to 441+50 N.B. U.S. 21

GUERNSEY COUNTY
GUE-40-8.93
PART 1

W.B. U.S. 40

2:1

C=2608

P.G. -15"

858.3

860.36

444+00

846

858.0

2:1

6:1

8:1

C=860

858.9

861.00

443+50

864.4

6.5:1

RESUME GRADING 443+40

C=0 F=0

443+00

846.7

442+50

843.1

SUSPEND GRADING 442+35

F=0 C=0

4:1

861.3

PART 2

C=838

3:1

860.1

862.60

442+00

863.2

441+50

443+25	0	0	
			119 0
	238	0	2,600 0
441+50	2,570	0	
443+40	0	0	
	2,608	0	
			3211 0
	860	0	
			159 0

442+00 to 444+00 NB US 21

SHEET NO.	STATE	PROJECT	
2	OHIO		

140
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

Area Back

Total Area Ahead

Ahead	7253	0
Back	7171	0

C=82

C=7171

Bridge Abutment

855.46
446+00
902.3

1:1

855.4

P.B.-15"

855.1

1:1

930

12,764 0

910

6571 0

900

W.B. U.S. 40

C=6571

890

Bridge Abutment

858.20
445+50
900.3

880

Var.

1:1

870

10,445 0

856.1

P.G.-15"

855.8

900

890

W.B. U.S. 40

4710 0

C=4710

880

858.94
445+00
894.4

2:1

1:1

870

7759 0

910

1:1

856.8

P.G.-15"

856.6

890

880

W.B. U.S. 40

C=3670

3670 0

859.67
444+50
887.8

2:1

870

5813 0

1:1

444+00

2608 0

857.6

P.G.-15"

857.3

860

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

444+50 to 446+00 N.B. U.S. 21

GUERNSEY COUNTY
GUE-40-8.93
PART 1

RAMP "C"

W.B. U.S. 40

855.24
447+50
900.3
C=2303
C=5063

855.98
447+00
898.9
C=2115
C=5071

856.72
446+50
899.3
C=2300
C=4953

853.2
853.9
852.9
853.7
854.6
852.6

P.G.-15"

1:1
2:1
1½':1ft.

7366 O
13474 O
7106 O
13369 O
7253 O
13431 O
7253 O

446+00 Ahead

446+50 to 447+50 N.B. U.S. 21

GUERNSEY COUNTY
GUE-40-8.93
PART 1

142
250

RAMP "C"

853.02
449+00
885.0
C=1436

2:1
851.9
852.2
1:1
1½'/ft.
850.0
1½:1
1:1

RAMP "C"

853.76
448+50
892.3
C=1835
C=3718
2:1
852.4
852.9
1:1
851.1
2:1
1½'/ft.
1½:1
1:1

RAMP "C"

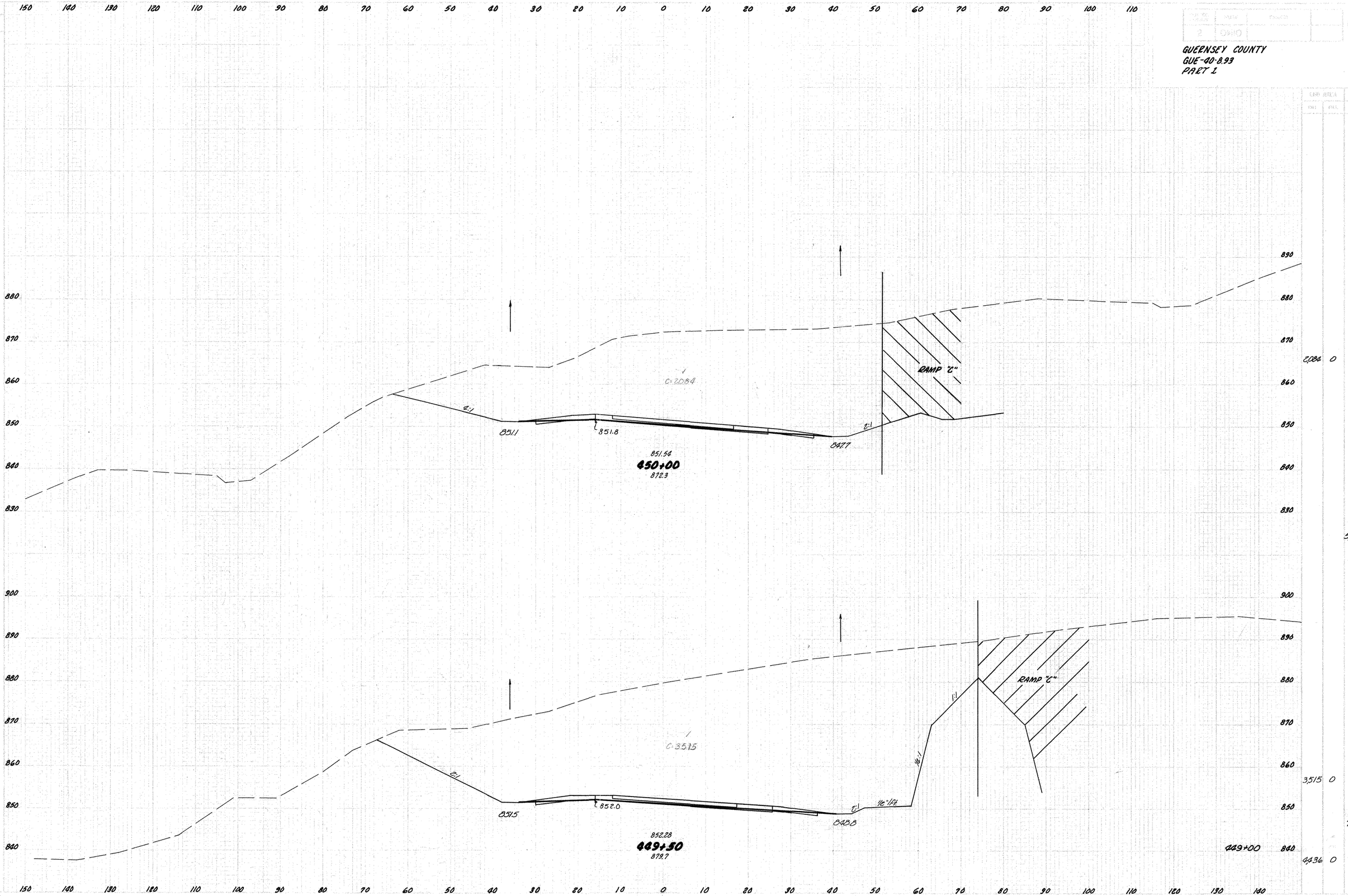
854.50
448+00
897.8
C=2157
C=4553
2:1
852.8
853.7
1:1
852.2
2:1
1½'/ft.
1½:1
1:1

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		4,436	0
		9,249	0
		5,553	0
		11,355	0
		6,710	0
		13,033	0
		7,366	0

447+50

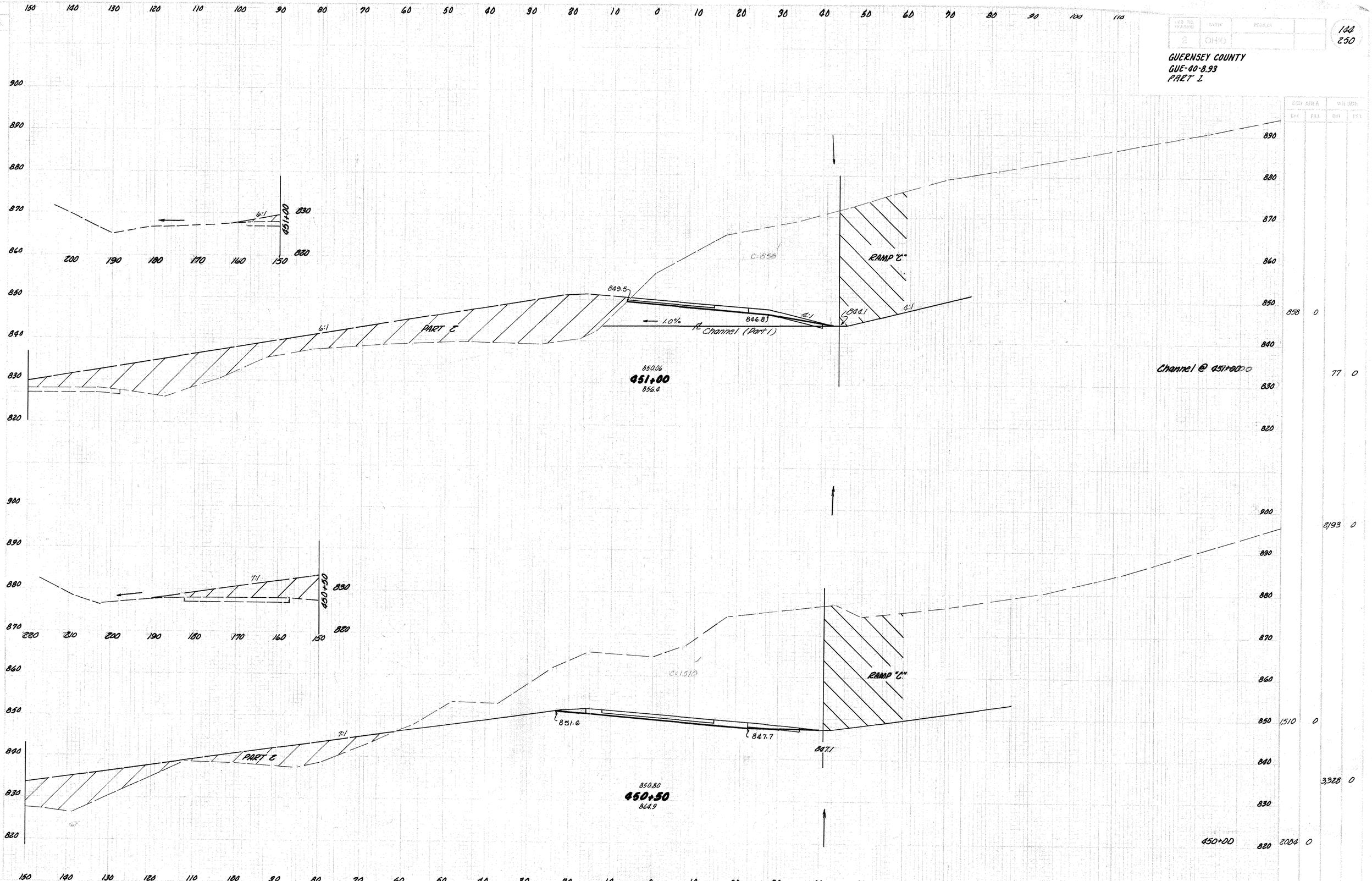
448+00 to 449+00 N.B. U.S. 21

GUERNSEY COUNTY
GUE-40-8.93
PART 1



449+50 to 450+00 NB US 21

GUERNSEY COUNTY
GUE-40-8.93
PART 1



GUERNSEY COUNTY
GUE-40-8.93
PART 1

PART 2

PART 2

PART 2

PART 2

PART 2

PART 2

PART 2

RAMP "C"

℄ Ramp "Z"

℄ Ramp "Z"

℄ Ramp "Z"

℄ Ramp "Z"

℄ Ramp "Z"

846.36
453+50
838.9

847.10
453+00
842.0

837.84
452+50
842.7

838.58
452+00
838.9

839.32
451+50
842.3

SUSPEND GRADING 452+50
C=0 F=0

Total Area Ahead
Area Back N.B. U.S. 21
Area Back 22+18 Ramp "C"

Match-See Below
Ahead 1084 0 0
Back 0 0

452+50 0 0

957 0

4 0

4 0

798 0

858 0

CKD DLM 7-18-62

DESIGNED	JAM & REVISED	5/21/62
DETAILED	RMS	3-26-62
CHECKED	JAM	3/29/62
QUANTITIES		5-28-62
CHECKED		5-28-62

GUERNSEY COUNTY
GUE-40-8.93
PART 1

146
250

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

PART 2

53:1

813.5

S.B. U.S. 21

790

780

Water

0.5:1

48:1

2:1

F = 4007

833.78
462+00
814.2

PART 2

48:1

2:1

F = 3027

830.52
461+50
814.3

800

790

793.7

S.B. U.S. 21

780

Water

Granular Embankment

2:1

F=2305

Culvert @
466+00 S.B. U.S. 21

835.26
461+00
812.6

RESUME GRADING 460+50

C=0 F=0

Granular Material to be placed level under embankment at elevation 787.0.

460+50

PART 2

48:1

2:1

PART 2

2:1

PART 2

2:1

Begin Granular Embankment 461+00

460+50

830 0 4287

820

810 0 6772

830 0 3027

820

810 0 4937

800 0 2305

790

780 0 0 0 2,132

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

461+00 to 462+00 N.B. U.S. 21

SECTIONS

LINE WIDTH	SEC. CODE

FED. REG. DIVISION	STATE	PROJECT	
2	OHIO		

127
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

END AREA		VOLUME	
CUT	FILL	CUT	FILL

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

830 820 810 800 790 780 770

8:1 820.9 S.B. U.S. 21 Water

PART 3 4.8:1 2:1 PART 2

F = 3514

832.45
463+00
821.6

0 3514

0 7210

8:1 820.9 S.B. U.S. 21 Water

PART 2 4.8:1 2:1 PART 2

F = 4489

Granular Embankment

833.08
462+50
818.2

0 4489

0 8126

462+00

0 4287

462+50 to 463+00 N.B. U.S. 21

GUERNSEY COUNTY
GUE-40-8.93
PART 1

148
250

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

840 830 820 810 800 790 780

6:1 PART 2 6:1

830.48
465+50
826.3

6:1 PART 2 6:1

830.72
465+00
826.7

PART 2 6:1

END GRADING 464+42
C=0 F=283

831.04
464+50
826.4

8:1 8:1 PART 2 2:1 PART 2

821.8
S.B. US. 21
F=1605

831.44
464+00
826.1

8:1 8:1 PART 2 2:1 PART 2 3:1

821.3
S.B. US. 21
F=2332

831.91
463+50
825.2

Granular Embankment
Waterline
463+00

464+42	0	283
	0	1468
	0	1605
End Granular Embankment 464+00	0	3645
	0	2332
	0	3513
463+00	0	3514

463+50 to 465+50 N.B. U.S. 21

GUERNSEY COUNTY
GUE-40-8.93
PART 1

129
250

1523

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

900 890 880 870 860 850

2:1 C=600 863.7 871.3 PART 2 8:1 PART 2

872.68
431+00
871.1

060 850 8:1 150 160 170 180 190 880 600 0

0

890 880 870 860 850

2:1 C=1045 860.6 Construct outlet ditch @ 430+40 4' Bottom ~2:1 Slopes 869.4 P.G. -15" 869.7 8:1 PART 2

871.54
430+50
875.2

860 850 8:1 150 160 170 180 190 880 1045 0

Add for Outlet ditch Lt. 182 0

BEGIN GRADING 430+25
C=0 F=0

430+25 0 0

890 880 870 860 850

3:1 PART 2 867.4 8:1 PART 2

870.34
430+00
870.8

860 850 8:1 150 160 170 180 190 880

429+50

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

430+00 to 431+00 S.B. U.S. 21

150
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

920 910 900 890 880 870 860 850

2:1 1:1 873.1 C=3724 ℄ Ramp "L" 875.77 P.C.-15" 874.0 8:1 864.8 PART 2

432+50
894.2

3,724 0

8:1 Slope to Drain

860 850 150 160 170 180 190 200 210 220 230 900 890 880 870 860 850

2:1 1:1 872.3 C=2827 P.C.-15" 872.9 8:1 864.7 PART 2

874.80
432+00
890.4

2,827 0

4,142 0

2:1 871.3 C=1646 P.C.-15" 872.0 8:1 864.7 PART 2

873.77
431+50
881.5

1,646 0

2,080 0

600 0

8:1 Slope to Drain

8:1

431+00 431+00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

431+50 to 432+50 S.B. U.S. 21

GUERNSEY COUNTY
GUE-40-8.93
PART 1

C=2179
℄ Ramp "G"
2:1
1:1
875.2
878.37
434+00
892.7
876.8
C=1238
2:1
865.0
PART 2
3,417 0

C=3235
℄ Ramp "L"
876.6
876.0
877.56
433+50
897.0
C=1533
2:1
865.8
PART 2
4,768 0

C=3115
℄ Ramp "L"
873.7
875.0
876.69
433+00
897.6
C=1486
2:1
865.2
PART 2
4,601 0
3,724 0
7,708 0
8,675 0
432+50

Slope to Drain
2:1

433+00 to 434+00 S.B. U.S. 21

GUERNSEY COUNTY
GUE-40-8.93
PART 1

Total Area Back

Area Back | Area Ahead

℄ Ramp "G" | 24+58 Ramp "G" | S.B. U.S. 21

C=2737 | C=2382 | C=3513 | C=2517 | C=1182

436+00 — 881.04 — 907.5

435+50 — 880.46 — 899.7 — 900.1

435+00 — 879.82 — 891.4

434+50 — 879.12 — 882.6

434+00

877.5 | 879.9 | 878.9 | 877.0 | 879.1 | 878.4 | 876.3 | 878.4 | 877.7 | 875.9 | 879.12 | 877.0

1:1 | 2:1 | 6:1

16"/Ft.

P.G. -15"

Channel @ 1.0%

Swale @ +40

Swale @ 434+40

Back 5119 0
Ahead 2382 0
7993 0
3513 0
5583 0
2517 0
3425 0
1182 0
4258 0
3417 0

434+50 to 436+00 S.B. U.S. 21

GUERNSEY COUNTY
GUE-40-8.93
PART 1

RAMP "G"

℄ RAMP "G"

C=3345

882.47
437+50
936.6

C=3503

1:1

1:1

½"/ft. 6:1

6:1

879.3

882.0

879.7

C=5578

882.05
437+00
936.9

1:1

1:1

½"/ft. 6:1

6:1

879.6

881.4

879.5

C=3905

881.57
436+50
924.2

1:1

1:1

1"/ft. 6:1

6:1

879.8

880.0

P.G.-15"

879.3

436+00

436+00

6,848 0

11,506 0

5,578 0

8,781 0

3,905 0

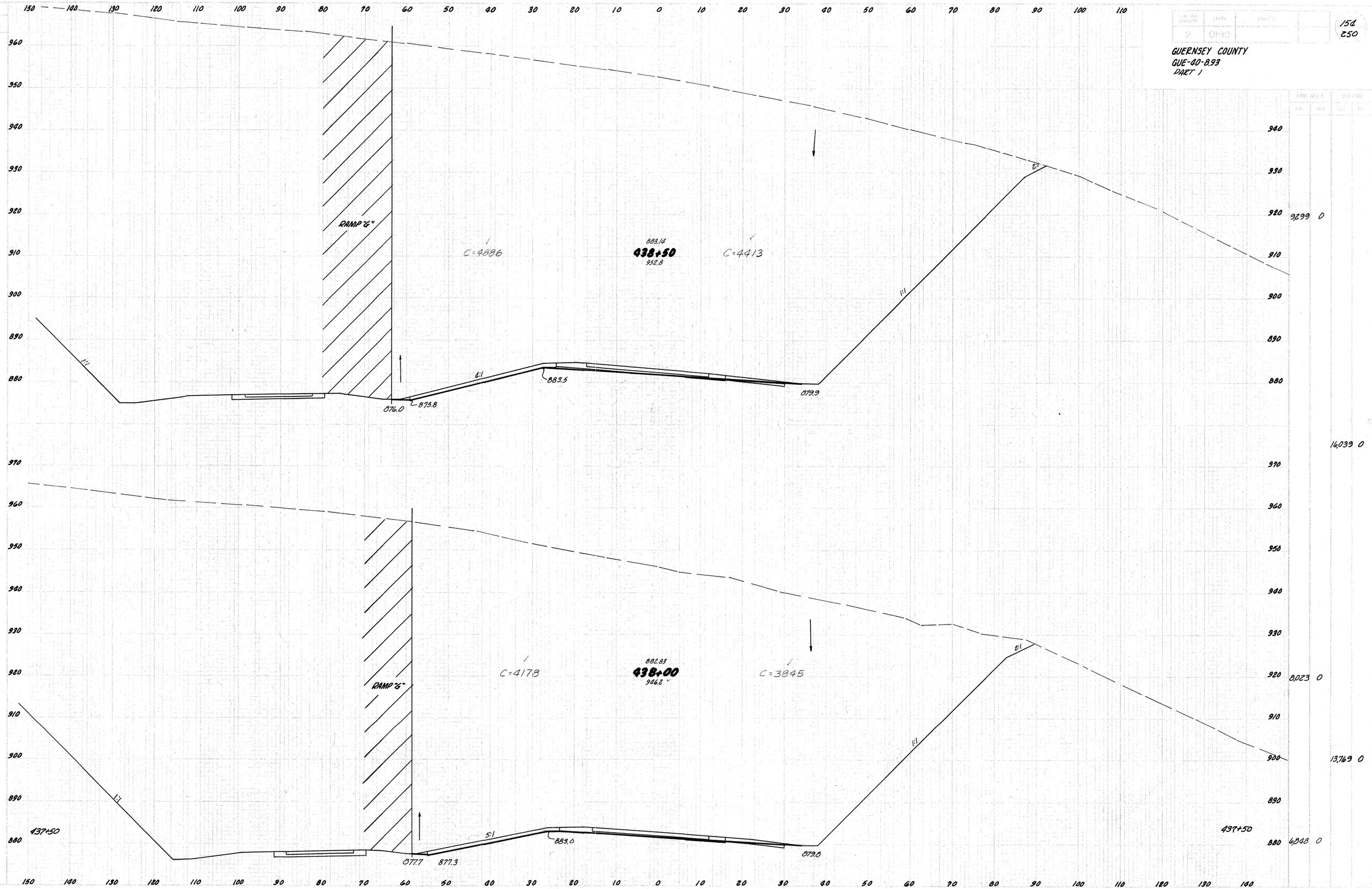
8,356 0

3,119 0

436+50 to 437+50 S.B. U.S. 21

GUERNSEY COUNTY
GUE-40-8.93
PART 1

154
250



SHEET NO.	STATE	PROJECT	
2	OHIO		

155
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

END AREA		VOLUME	
CUT	FILL	CUT	FILL
11,639	0		
20,819	0		
10,616	0		
13,253	0		
9,299	0		

C=5812

883.59
439+50
954.8

RAMP "G"

C=5827

1:1

4:1

884.3

0003

871.7

871.4

RAMP "G"

C=3698

883.39
439+00
954.2

C=6716

2:1

1:1

4:1

883.9

0001

873.9

871.0

℄ Ramp "G"

438+50

438+50

439+00 to 439+50 S.R. U.S. 21

GUERNSEY COUNTY
GUE-40-8.93
PART 1

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

950 940 930 920 910 900 890 880 870 860

RAMP "E"

C=5489

883.81
440+50
946.2 ←

C=6291

E.B. U.S. 40

8:1

4:1

1:1

865.3
865.9
884.5
0005

11,720 0

22,377 0

960 950 940 930 920 910 900 890 880

RAMP "G"

C=4962

883.73
440+00
953.4 ←

C=7425

439+50

869.0
868.8
884.5
0004

12,387 0

22,246 0

11,639 0

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

440+00 to 440+50 S.B. U.S. 21

GUERNSEY COUNTY
GUE-40-8.93
PART 1

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

900
890
880

442+00
902.6

920
910
900
890
880

SUSPEND GRADING 441+50
FULL SECTION

E.B. U.S. 40

883.88
441+50
918.2

C=3495

2.7:1

930
920
910
900
890
880

883.84
441+00
932.1

C=5590

C=3955

1:1

1:2

883.2

880.2

3.7:1

440+50

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

890
880

3495 0

930
920
910
900
890
880

12,072 0

9545 0

19,745 0

440+50

11,700 0

441+00 to 442+00 S.B. U.S. 21

GUERNSEY COUNTY
GUE-40-8.93
PART 1

158
250

467+50 – Lt.
467+00 – Lt.
466+50 – Lt.

PART 2

E.T.P. 4.35
74+23

E.I. 817.5
830.48
467+50
783.9

811.3
810.5
810.3

F=1368
F=2460
F=3857
F=3223
F=2718
F=2577

10:1
782.5
782.5

Elev. 805.0
831.41
467+00
781.5

El. 779.0
El. 779.0

Elev. 792.5
832.85
466+50
782.3

Ex. Dam
Ex. Dam

Granular Embankment

RESUME GRADING
466+00

Begin Granular
Embankment 466+00

466+00
466+00

0 8,191
65 13,087
70 5,943
65 7,889
0 2,577
0 2,386
0 0

466+50 to 467+50 S.R.U.S.21

GUERNSEY COUNTY
GUE-40-8.93
PART 1

CHR AREA		VOLUME	
CUT	FILL	CUT	FILL
		0	7,919
		0	15,639
		0	8,971
		0	16,876
		0	8,823
		0	15,754
		0	8,191

Match Line See Sheet Nº 160

℄ T.R 435

75+74
811.9
828.39
469+00
785.2
F=1496
F=6359
812.61
75+75
N.B. U.S. 21

75+24
811.1
828.98
468+50
785.0
C=1518
F=3019
F=4362
812.61
75+25
799.5
N.B. U.S. 21

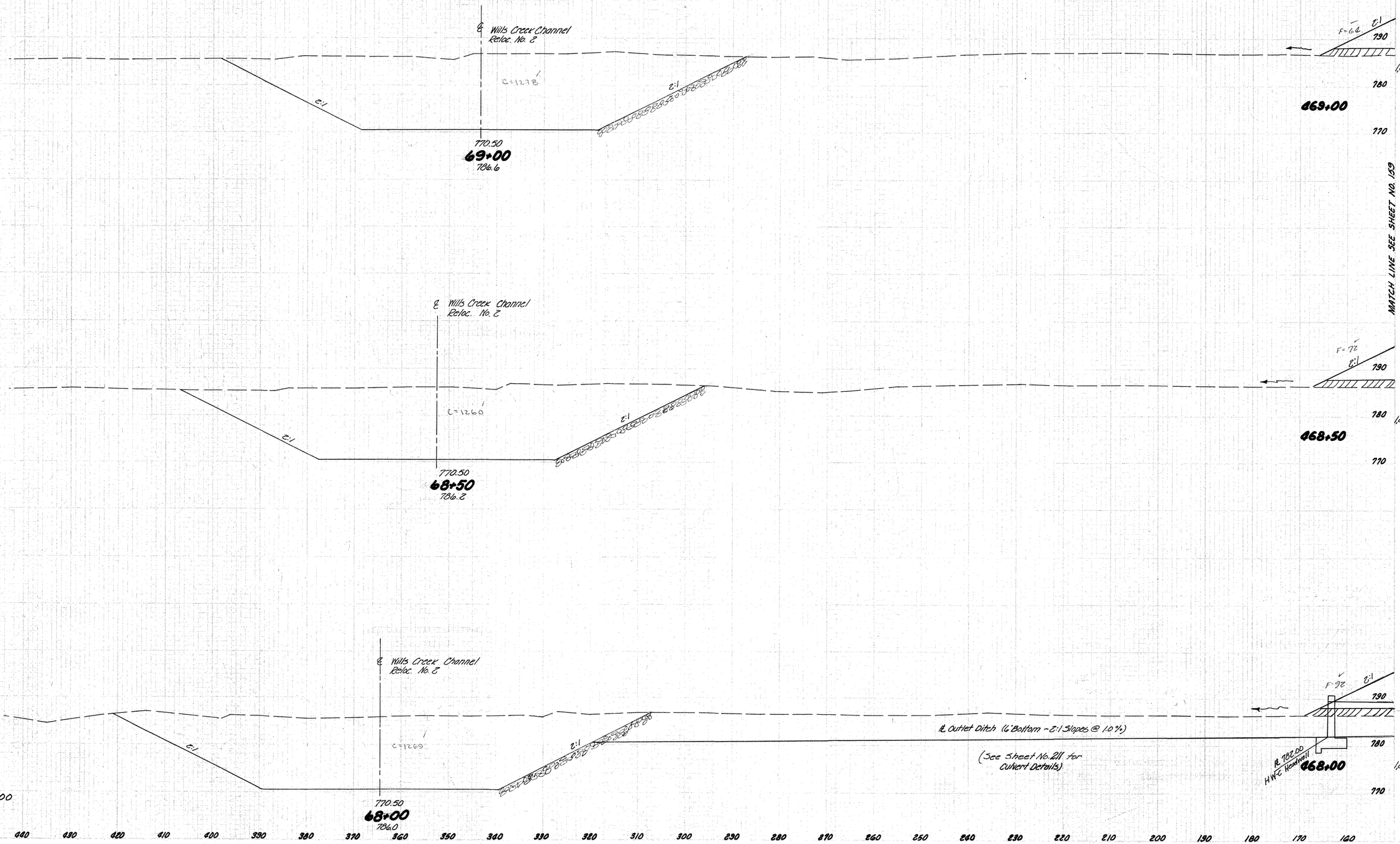
74+74
811.2
829.67
468+00
785.3
F=1503
F=3098
F=4130
264'-30" C.M.P @ 02%
812.61
74+75
Granular Embankment
E 782.53
FINC - Headwall
N.B. U.S. 21
467+50

STRUCTURE Nº GUE-21-0913
STATION 468+00
Proposed 90" Culvert
See Sheet Nº 211

468+00 to 469+00 S.B. U.S. 21

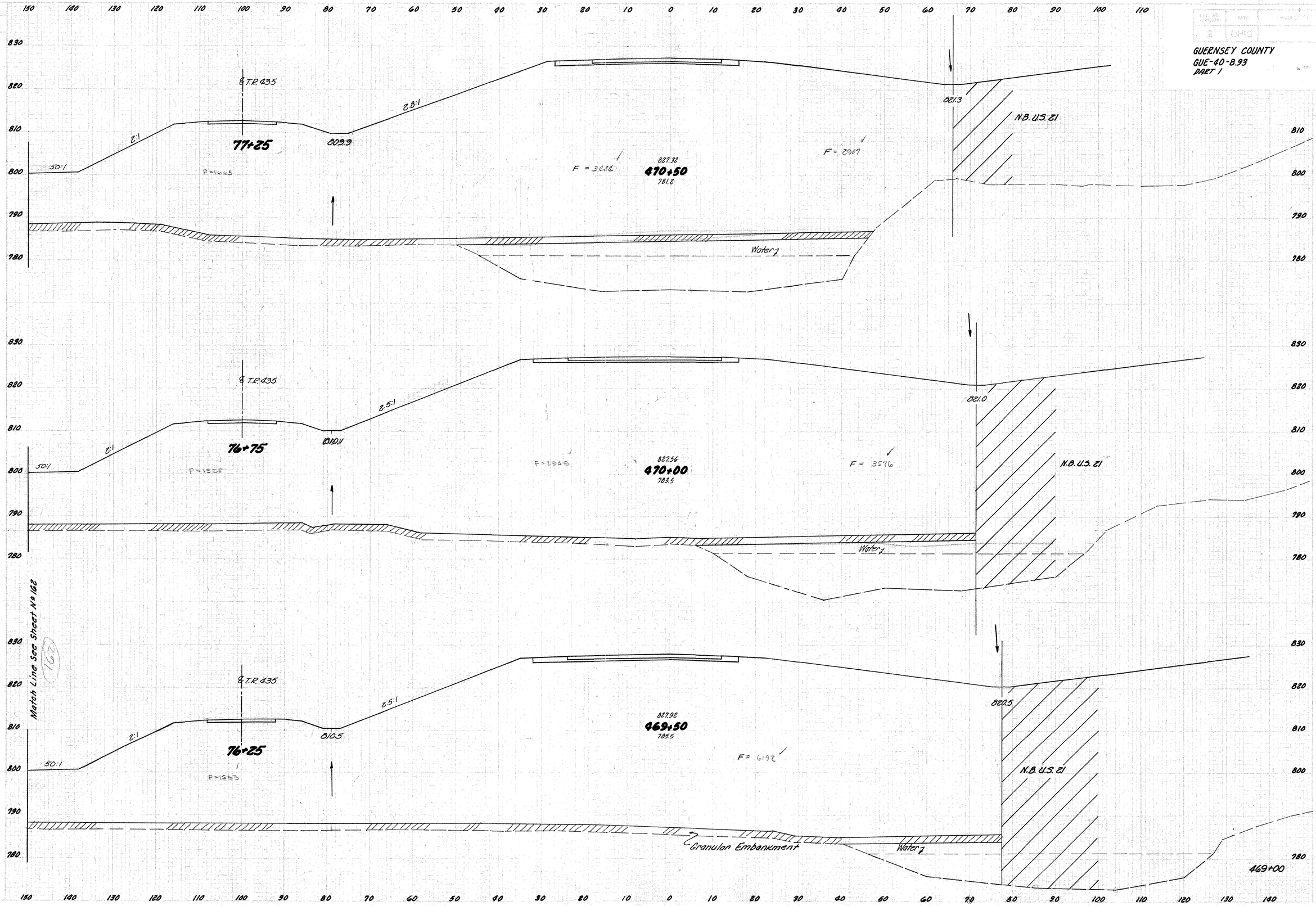
GUERNSEY COUNTY
GUE-40-8.93
DART I

CHANNEL CUT & FILL
GRID AREA: CUT / FILL — VOLUMES: CUT / FILL



X-SEC. EXTN. LT. ~ 468+00 to 469+00 S.B. U.S. 21

GUERNSEY COUNTY
GUE-40-8.93
PART 1



469+50 to 470+50 S.B. U.S. 21

STATE: OHIO
PROJECT:
162
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

CHANNEL CUT & FILL

END AREA		VOLUME	
CUT	FILL	CUT	FILL

℄ Pump Station
Prop. Pump Station (Back)
50:1
2:1
F=1736
790
780
770
1299 0
470+50
MATCH LINE SEE SHEET NO. 16
2442 0

℄ Pump Station Drive
50:1
2:1
F=1231
790
780
770
1338 0
470+00
2435 0

℄ Wills Creek Channel Reloc. No. 2
C=1338
2:1
1:2
770.50
70+00
106.8

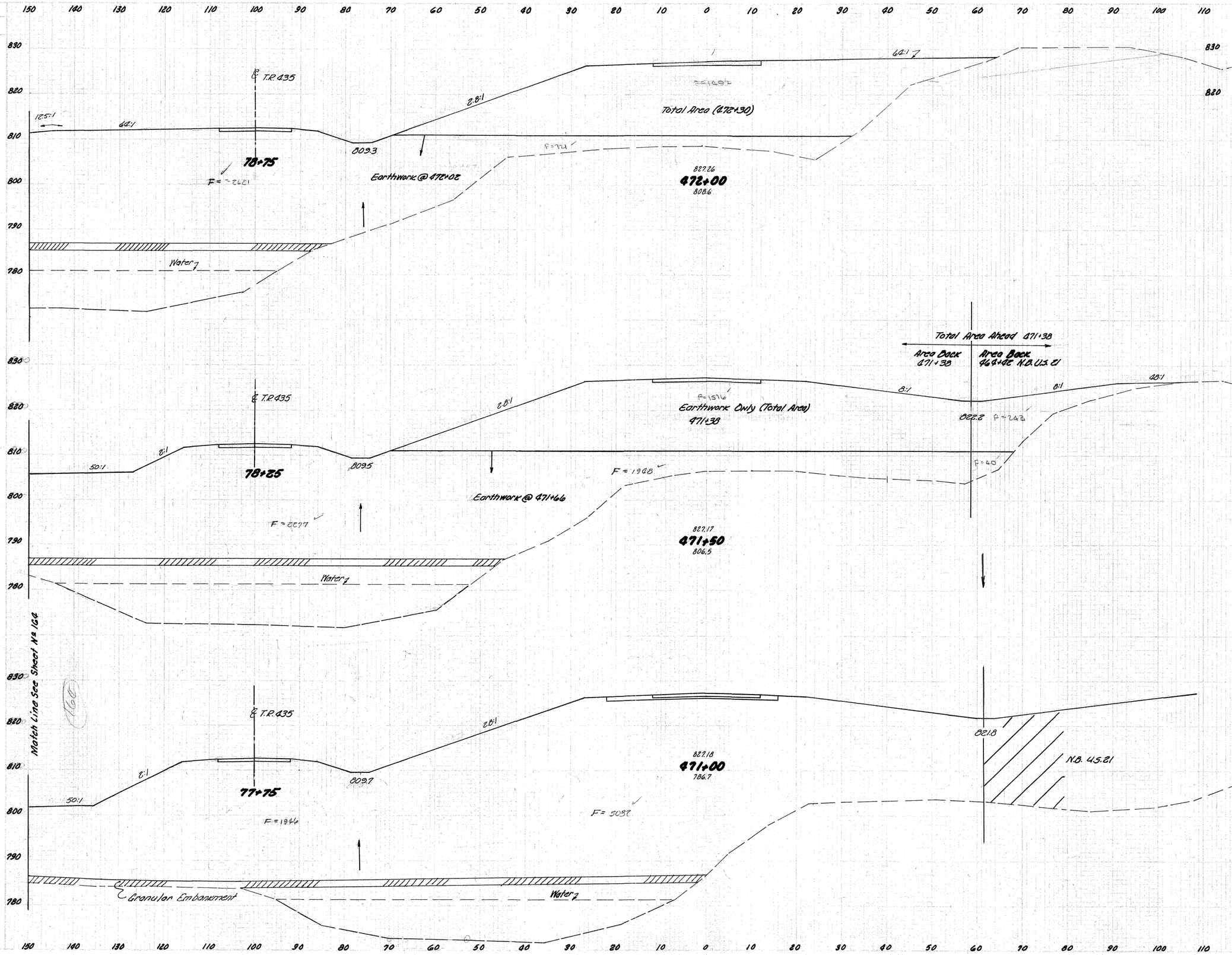
℄ Wills Creek Channel Reloc. No. 2
C=1299
2:1
1:2
770.50
70+50
106.5

℄ Pump Station Drive
50:1
2:1
F=1211
790
780
770
1292 0
469+50
2380 0
469+00
1278 0

℄ Wills Creek Channel Reloc. No. 2
C=1292
2:1
1:2
770.50
69+50
106.7
69+00

X-SEC. EXTN. LT. ~ 469+50 to 470+50 S.B. U.S. 21

GUERNSEY COUNTY
GUE-40-8.93
PART 1



472+30	0	6896
	0	6378
472+02	0	5804
	0	6263
471+72	0	5869
	0	1938
471+66	0	6173
	0	7305
Ahead 471+38	0	7992
Back 471+38	0	7709
	0	11335
	0	8399
	0	16379
470+50	0	9290

471+00 to 472+00 S.B. U.S. 21

GUERNSEY COUNTY
GUE-40-8.93
PART 1

CHANNEL CUT & FILL

450 440 430 420 410 400 390 380 370 360 350 340 330 320 310 300 290 280 270 260 250 240 230 220 210 200 190

72+00 Ahead
72+00 Back

℄ Wills Creek Channel Reloc. No. 2

C=1332

2:1 2:1

770.50
72+00
786.6

FULL Section Dump Rock Back
Right Side Only Ahead

12.5:1 12.5:1 Var. Var.

F=1165

Earthwork Only
471+72

472+02

472+30

F = 3062

790 780 770

Water 7

472+00

1332 0

MATCH LINE SEE SHEET NO. 163

2437 0

50:1

2:1

F=1908

℄ Wills Creek Channel Reloc. No. 2

C=1300

Full Section Dump Rock
71+18 Ahead
Right Side Only Back

770.50
71+50
786.3

790 780 770

471+50

1300 0

PROPOSED LOW HEAD DAM
71+30

2382 0

71+18 Ahead
71+18 Back

℄ Pump Station Drive

50:1

2:1

F=1846

℄ Wills Creek Channel Reloc. No. 2

C=1273

2:1 2:1

770.50
71+00
786.5

790 780 770

1273 0

2381 0

471+00

1239 0

70+50

450 440 430 420 410 400 390 380 370 360 350 340 330 320 310 300 290 280 270 260 250 240 230 220 210 200 190 180 170 160

X-SEC. EXTN. LT. – 471+00 to 472+00 S.B. U.S. 21

SEEDING
1200 lbs/ac
10 lbs/ac

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

SHEET NO.	SHEETS	PROJECT
2	OHIO	

165
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

CROSS AREA | VOLUMES
CUT | FILL | CUT | FILL

830
820
810
800
790

@ T.R. 435

8:1 — F=249 — 813.18 — **80+75**

3:1 — F=175 — 811.0 — C=21

828.71 — **476+00** — 893.6

PART 2 — 6:1

CUT 21 FILL 451

830
820
810
800
790

@ T.R. 435

8:1 — F=382 — 812.09 — **80+25**

3:1 — F=330 — 810.8 — C=16

828.22 — **473+50** — 891.6

PART 2 — 3:1

CUT 6 FILL 735

830
820
810
800
790

Match Line See Sheet No 166

@ T.R. 435

8:1 — F=630 — 812.72 — **79+75**

3:1 — F=629 — 810.6

827.79 — **473+00** — 821.6

64:1 — PART 2 — 8:1 — 6:1

CUT 0 FILL 1350

CUT 25 FILL 1098

CUT 6 FILL 1931

CUT 0 FILL 4107

830
820
810
800
790

@ T.R. 435

8:1 — 1.0% — Outlet Ditch — 809.1

2.7:1 — F=800

827.67 — **472+50** — 809.9

64:1 — PART 2 — 6:1

CUT 0 FILL 3086

Deduct Fill for Ditch @ 472+50 Lt — FILL -53

CUT 0 FILL 3697

Construct Outlet Ditch @ 79+25
4' Bottom
2:1 Side Slopes

End Granular Embankment
@ 472+50

472+30 — 812.62 — **79+25**

Granular Embankment

Water ?

CUT 0 FILL 6896

830
820
810
800
790

472+30

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

472+50 to 476+00 S.R. U.S. 21

GUERNSEY COUNTY
GUE-40-8.93
PART 1

CHANNEL CUT & FILL

LAND AREAS		VOLUMES	
CUT	FILL	CUT	FILL

450 440 430 420 410 400 390 380 370 360 350 340 330 320 310 300 290 280 270 260 250 240 230 220 210 200 190

790 / 780 / 770

℄ Wills Creek Channel Reloc. No. 2

C=1465 — 2:1 — 2:1 — 783.07 — F=1006

770.50

78+50

786.6

472+50

852 482

C=852 — 2:1 — 2:1 — 783.07 — F=482

770.50

74+00

786.6

472+00

1,938 1187

MATCH LINE SEE SHEET NO. 165

C=1241 — 2:1 — 2:1 — 783.07 — F=800

770.50

73+50

786.2

473+50

1241 800 — F=63

2421 1491

C=1370 — 2:1 — 2:1 — 783.07 — F=810

770.50

73+00

786.3

473+00

1,374 810 — F=91

2,629 750

472+50 1,465 0

472+00 1,332 0 2,530 0

X-SEC. EXTN. LT. ~ 472+50 to 474+00 S.R. U.S. 21

GUERNSEY COUNTY
GUE-40-8.93
PART 1

END GRADING
475+00

PART 2

3:1

6:1

℄ T.R. 435

PART 2

2:1

811.9

814.00
81+75

829.69
475+00
834.4

0 0

0 427

Match Line See Sheet No 168

PART 2

6:1

℄ T.R. 435

3:1

3:1

2:1

P=225

P=236

811.4

813.55
81+25

829.20
474+50
833.8

0 461

19 844

21 451

474+00

474+50 to 475+00 S.R. U.S. 21

FED. ROAD DIST. NO. 5	STATE OHIO	STATE PROJECT	

168
250

GUERNSEY COUNTY
GUE-40-8.93
PART I

CHANNEL CUT & FILL

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
780				
770	0	0		
			811	15
790				
780	438	8		
770				
			1,680	302
800				
			469	155
790				
780				
			1,839	772
790				
			524	262
780				
			1274	689
770				
74+00	852	482		

MATCH LINE SEE SHEET NO. 167

END CHANNEL RELOC. 77+00
C=0 F=0
769.5
77+00 (Wills Creek Reloc. #2)

& Wills Creek Channel
Reloc. No. 2
C=418
2:1
C=70
F=0
770.50
76+00 (Wills Creek Reloc. #2)
773.0

& Wills Creek Channel
Reloc. No. 2
Water ℄
793.0
C=469
2:1
C=155
770.50
75+00

& Wills Creek Channel
Reloc. No. 2
Water ℄
793.0
C=524
2:1
770.50
74+50
74+00

475+00

474+50

X-SEC. EXTN. LT. - 474+50 to 475+00 S.B. U.S. 21

GUERNSEY COUNTY
GUE-40-8.93
PART 1

169
250

111 27

103 25

0 0

63+50
64+00
64+50
20+00
19+50
19+00
18+50
65+00
60+50

851.8
851.6
851.4
853.43
853.30
853.00
840.4
840.3
840.7
806.0
806.5
807.0
808.30
808.87
809.39

Seeding Limit
Sod 2'
Begin Sod @ 64+00
END GRADING 64+50
C=0 F=0
END SEEDING 64+50
℄ T.R. 435

PART 2

4:1
2:1
3:1

19+00 to 20+00 RAMP "A"

GUERNSEY COUNTY
GUE-40-8.93
PART 1

170
250

Guernsey
22+00

PART 2

21+50
852.78
834.0

20+50
853.38
839.3

21+00
853.17
836.8

20+00

63+00
807.01

63+50
807.68

62+50
806.31

Seeding Limit

Sod 2' 804.0

Sod 2' 804.7

Sod 2' 805.3

8:1
4:1
2:1
3:1

851.2
851.2
851.6

C=17
F=15
C=18
F=18
C=19
F=20

℄ T.R. 435

156
189
378

20+50 to 21+50 RAMP "A"

GUERNSEY COUNTY
GUE-40-2.93
PART I

100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

860 850 840 830 820 810 800

60+50

4:1 5:1 8:1 2:1

RAMP "B"

842.0

850.60
23+00
826.5 ℄

PART 2

Seeding Limit

℄ T.R. 435

C=2.2 3:1

Sod-2 801.9

F=8

F.Drive @ 12.0%

4:1

800.21
61+00

RAMP "B"

850.0

851.50
22+50
820.7

PART 2

℄ T.R. 435

C=2.0

Sod-2 802.6

F=13

800.91
61+50

850.7

852.23
22+00
831.4

PART 2

℄ T.R. 435

C=2.0

F=11.6

3:1

Sod-2 803.3

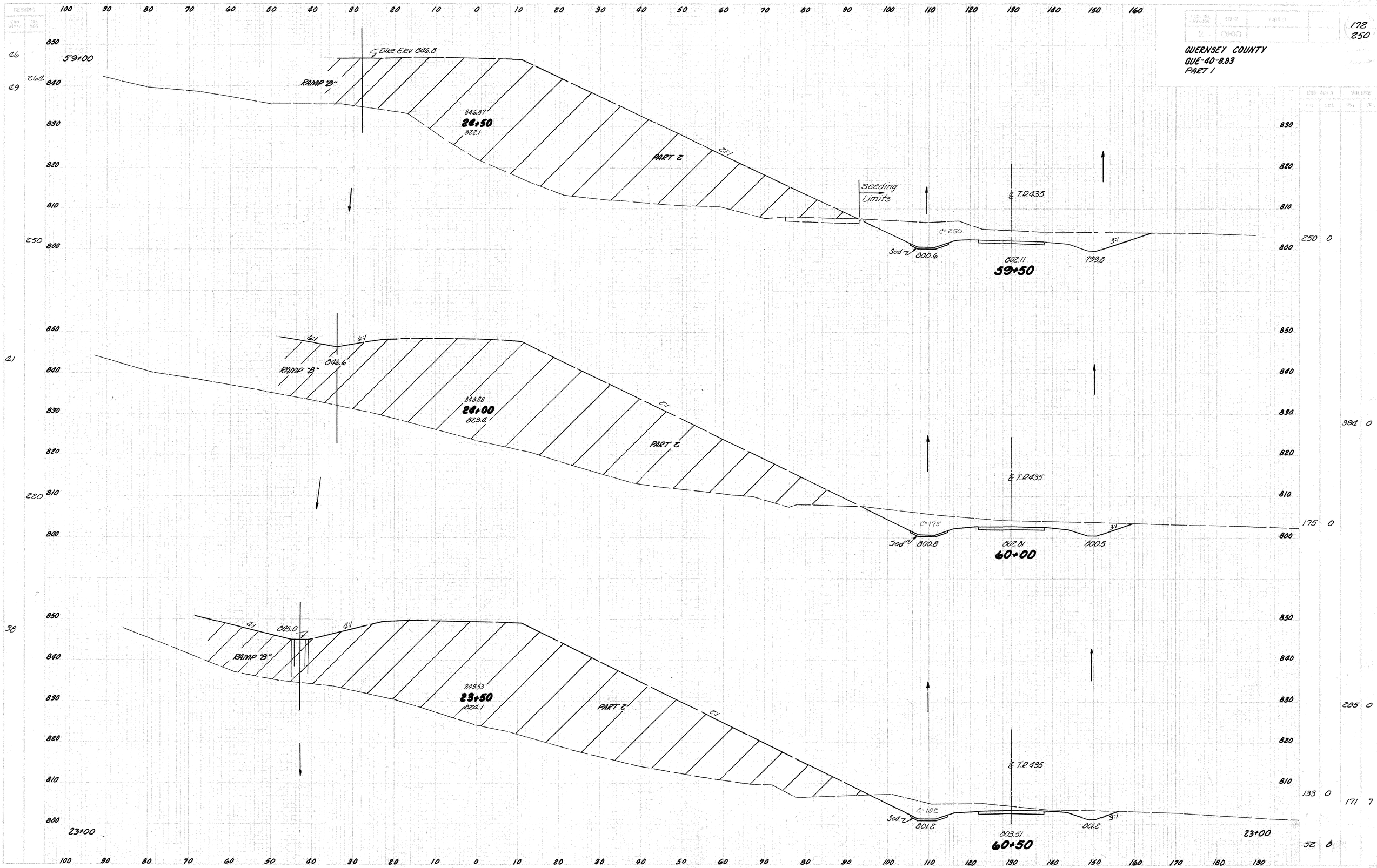
800.61
62+00

21+50

22+00 to 23+00 RAMP "A"

GUERNSEY COUNTY
GUE-40-8.93
PART 1

172
250



GUERNSEY COUNTY
GUE-40-8.93
PART 1

SEEDING
LBS/1000 SQ YDS

END AREA
CUT SQ FT | FILL SQ FT

VOLUME
CUT CU YD | FILL CU YD

57+52

8:1 | 8:1 | 839.7 | RAMP "B" | 841.60 | **26+00** | 814.2 | 2:5:1 | PART 2

Seeding Limit | ℄ T.R 435 | ℄ = 317 | 8:1 | Sod'd | 798.5 | 800.01 | **58+00** | 797.7

END AREA: CUT 317 0

58+50

8:1 | 8:1 | 842.3 | RAMP "B" | 843.53 | **25+50** | 815.5 | 2:3:1 | PART 2

℄ T.R 435 | ℄ = 272 | 8:1 | Sod'd | 799.8 | 800.71 | 798.4 | **58+50**

END AREA: CUT 272 0

59+00

8:1 | 8:1 | 844.6 | RAMP "B" | 845.28 | **25+00** | 817.9 | 2:2:1 | PART 2

℄ T.R 435 | ℄ = 232 | 8:1 | Sod'd | 799.9 | 801.41 | 799.1 | **24+50**

END AREA: CUT 232 0

VOLUME: CUT 538 0 | 461 0 | 428 0 | 250 0

25+00 to 26+00 RAMP "A"

GUERNSEY COUNTY
GUE-40-8.93
PART 1

55+50
829.4
8:1
833.22
28+00
812.3
3:1
PART 2
Seeding Limit
℄ T.R. 435
C=504
2:1
1:2
795.7
Sod
797.21
56+03
795.9
504 0

831.1
835.32
27+50
812.1
797.91
56+53
796.9
795.6
902 0

RAMP "B"
832.7
837.42
27+00
812.9
℄ T.R. 435
C=445
797.1
794.3
445 0

836.1
839.52
26+50
814.0
℄ T.R. 435
797.8
799.31
57+52
797.0
761 0
398 0
644 0
317 0

26+00

26+50 to 28+00 RAMP "A"

GUERNSEY COUNTY
GUE-40-8.93
PART 1

175
250

W.B. U.S. 40

Edge Shoulder (Typical)

2' (Typical)

F = 2.5'

Edge of Shoulder (Typical)

2' (Typical)

Part 1 Fill Line.

Seeding Limit

53+71

824.82
30+00
806.1

29+50 - Lt.

BEGIN GRADING 29+50
C = 0 F = 0

818.0

824.92
29+50
807.5

PART 2

826.98
29+00
808.4

PART 2

829.02
28+50
809.3

PART 2

826.9

822.8

Begin Granular Embankment 29+00 Ramp "A"

30+00 - Rt.

29+50 - Rt.

29+00 - Rt.

Elev. 784.07

Granular Embankment

El. 784.07

℄ T.R. 435

54+15
0 393G

54+60
0 465

55+06
212 180

55+50
665 147

28+00
536 0

504 0

902 0

181 597

Sod'd 792.0

Sod'd 793.5

Sod'd 794.5

C = 536

28+50 to 30+00 RAMP "A"

CRU D.L.M. 7-18-62

P.S. Hand Jam Sht. FMS 4-10-62

ESTIMATE #442
JAM - JWH 4-9-62
FMS - FSB 4-9-62

176
250

GUERNSEY COUNTY
GUE-40-8.93
PART I

100 90 80 70 60 50 40 30 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

47

N.B. US. 40

812.1

F=2305

816.48
32+00
786.4

FOR EARTHWORK ONLY
31+90

5E+00

810 800 790 780

31+90 0 2574

544

93

N.B. US. 40

818.8

F=2511

818.52
31+50
786.9

F=1934

Seeding Limit

Total Area Back
Area Ahead | Area Back
52+70 T.R 435

℄ T.R 435

790.3

F=3869

End Granular Embankment 31+90 Ramp "A"

820 810 800 790 780

0 5387

Ahead 0 4618

538

Channel No. 1

52+70

97

N.B. US. 40

812.8

F=2112

820.62
31+00
786.4

F=3055

F=2328

℄ T.R 435

787.6

53+21

Back 0 5007

0 10,115

0 5917

Channel @ 1% to Wills Creek

575

STRUCTURE No "D"
STATION 53+21
Proposed 27" Culvert
See Sheet No 210

110

N.B. US. 40

813.2

F=2007

820.72
30+50
792.4

F=2006

Part I Fill Line

12:1

Sod

789.3

Granular Embankment

53+71

℄ T.R 435

F=3611

0 14,396

0 5213

0 8286

0 3736

30+00

100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190

30+50 to 32+00 RAMP "A"

GUERNSEY COUNTY
GUE-40-8.93
PART 1

C=2386

833.00
16+50
875.4

C=2071

2:1 1:1 1½'/ft. 2:1 832.9 833.1 8:1 8:1 830.6 1½'/ft. 1½:1

Total Area Ahead 11,587 0
Area Back

C=1838 C=3850

833.07
16+00
875.1

C=2332

2:1 1:1 1½'/ft. 2:1 827.8 8:1 833.3 1.0% 831.2 8:1 8:1 1½'/ft. 830.3 1½:1

Ahead 8014 0
Back 6,182 0

Construct Outlet Ditch
4' Bottom
2:1 Side Slopes

Add for Ditch @ 16+00 252 0

9,847 0

C=4453

W.B. U.S. 40

833.69
15+50
874.9

8:1 8:1 831.3 833.9 8:1 8:1 831.2 1½'/ft. 1½:1

4,453 0

8,639 0

(Area from 231+00 W.B. U.S. 40) 14+89.5 3,258 0

15+50 to 16+50 RAMP "B"

GUERNSEY COUNTY
GUE-40-8.93
PART 1

178
250

836.08
18+00
858.0

C=2112

4:1 | 836.0 | 836.0 | 8:1 | 8:1 | ½"/ft. | 1½:1 | 833.7 | 8:1

2112 0

834.51
17+50
868.9

C=3580

2:1 | 1½:1 | ½"/ft. | 2:1 | 834.4 | 834.9 | 8:1 | 8:1 | ½"/ft. | 832.1 | 1½:1 | 8:1

3580 0

833.48
17+00
878.1

C=2175 | C=1975

2:1 | 1½:1 | ½"/ft. | 2:1 | 833.4 | 833.5 | 8:1 | 8:1 | ½"/ft. | 831.1 | 1½:1 | 8:1

4150 0

7157 0

7969 0

16+50 4457 0

17+00 to 18+00 RAMP "B"

GUERNSEY COUNTY
GUE-40-8.93
PART 1

179
250

END AREA | VOLUME
CUT | FILL | CUT | FILL

19+25 0 0
38 0
82 0
903 0
2788 0
2112 0

8:1
3:1
842.9
840.0
RAMP "A"
PART 2
842.37
19+50
832.8
SUSPEND GRADING
19+25
C=0 F=0

8:1
840.1
C=82
837.8
RAMP "A"
PART 2
840.25
19+00
834.7

8:1
C=393
16:1
1:2
8:1
1:2
16:1 Ff.
838.1
836.1
835.7
RAMP "A"
PART 2
838.13
18+50
842.5

18+00

18+50 to 19+50 RAMP "B"

GUERNSEY COUNTY
GUE-40-8.93
PART 1

180
250

		211	0
		98	0
20+75	0	0	

RAMP "A"
PART 2
4:1
8:1
3:1
C=211
845.5
846.3
848.73
21+00
840.5
RESUME GRADING 20+75
C=0 F=0

RAMP "B"
PART 2
8:1
3:1
846.7
844.2
846.61
20+50
837.1
Dike @ 20+28
Elev. 846.8

RAMP "A"
PART 2
8:1
3:1
845.1
842.1
844.09
20+00
833.4

19+50

20+00 to 21+00 RAMP "B"

GUERNSEY COUNTY
GUE-40-8.93
PART 1

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

880 870 860 850 840 830 820

C=2039'
4:1
4:1
857.1
857.3
857.21
23+00
873.5
854.0
C=2087'
855.09
22+50
872.3
4:1
855.0
855.2
852.7
C=1754'
852.97
22+00
869.3
RAMP "A"
4:1
8:1
852.9
853.1
850.6
C=744'
5:1
4:1
6:1
RAMP "A"
PART 2
849.8
851.3
850.85
21+50
857.4
849.4
21+00

2,039 0
3,820 0
2,087 0
3,556 0
1,754 0
2,313 0
744 0
884 0
211 0

21+50 to 23+00 RAMP "A"

GUERNSEY COUNTY
GUE-40-8.93
PART 1

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

870 860 850 840 830 820

S.R. U.S. 21 — PART 2 — 864.9 — 8:1 — 8:1 — C=B — 1:1 — 1:1 — C=B — 4:1 — 863.7

865.69
25+00
857.9
END GRADING 24+75
C=0 F=0

24+75 0 0

870 860 850 840 830 820

S.R. U.S. 21 — PART 1 — 863.1 — 8:1 — 8:1 — 863.5 — C=3.14 — 4:1 — 861.2

863.57
26+50
864.9

314 0
1270 0

870 860 850 840

S.R. U.S. 21 — 8:1 — 861.4 — 862.0 — 8:1 — C=10.66 — 3:1 — 859.0

861.45
26+00
870.2

1066 0
2396 0

870 860 850

23+00

C=15.22 — 4:1 — 859.2 — 859.9 — 4:1 — 856.9

859.33
23+50
872.8

1522 0
2039 0
3297 0

23+00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

23+50 to 25+00 RAMP "B"

183
250

GUERNSEY COUNTY
GUE-80-8.93
PART 1

W.B. U.S. 40

C=5070 V

885.68
14+00
909.8

1:1 1:1 1:1

889.9 885.1 883.6

5,070 0

W.B. U.S. 40

C=3026 V

888.14
13+50
918.0

1:1 1:1 1:1

887.6 887.8 886.1

3,026 0 4,258 0

W.B. U.S. 40

890.60
13+00
906.3

C=1573 V

2:1 2:1 8:1

889.9 890.2 888.6

1,573 0 1,639 0

W.B. U.S. 40

C=197 V

8:1 6:1

888.3 892.8 891.0

197 0 0 0

893.06
12+50
895.1

12+25 0 0

BEGIN GRADING
12+25

12+50 to 14+00 RAMP "C"

GUERNSEY COUNTY
GUE-40-8.93
PART 1

182
250

W.B. U.S. 40

C=3360

880.76
15+00
982.5

C=5125

8:1

1:1

880.7

881.0

878.4

8485 0

14376 0

W.B. U.S. 40

C=2811

883.22
14+50
932.8

C=4230

2:1

1:1

14+00

882.0

883.0

881.0

7041 0

11,214 0

3070 0

14+50 to 15+00 RAMP "C"

C=4121

875.84
16+00
944.1

C=6321

C=3546

878.30
15+50
944.1

C=5714

2:1
1:1
875.0
876.0
873.4
878.2
878.5
875.9
15+00
10,982 O
18243 O
9,760 O
16431 O
8485 O

15+50 to 16+00 RAMP "C"

GUERNSEY COUNTY
GUE-40-8.93
PART 1

186
250

N.B. U.S. 40

W.B. U.S. 40

C=3764'

C=4497'

C=5042'

C=3972'

C=5799'

C=2638'

C=111'

870.92
17+00
9556

873.38
16+50
9548

870.8
871.2
868.5
873.3
873.5
871.0

13,414 0
23,910 0
12,409 0
21,159 0
10,442 0

16+00

16+50 to 17+00 RAMP "C"

GUERNSEY COUNTY
GUE-40-8.93
PART 1

N.B. U.S. 21

2:1

1:1

C=5873

C=5315

866.0
18+00
967.4

865.9

866.0

863.6

CUT AREA		FILL AREA	
SQ FT	CU YD	SQ FT	CU YD
			11,188 0
			22,120 0

N.B. U.S. 21

2:1

1:1

C=4546

C=5321

C=2834

868.96
17+50
956.1

866.8

868.8

866.1

17+00

CUT AREA		FILL AREA	
SQ FT	CU YD	SQ FT	CU YD
			12,701 0
			24,181 0
			13,414 0

17+50 to 18+00 RAMP "C"

GUERNSEY COUNTY
GUE-40-8.93
PART 1

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

920 910 900 890 880 870 860 850

N.B. U.S. 21

C=6659

861.08
19+00
913.8

1:1 1:1 1½:1 1½:1 8:1 8:1 1½:1 1½:1

861.0 861.2 860.7

6,659 0

14,893 0

930 920 910 900 890 880 870 860

N.B. U.S. 21

C=9426

863.58
18+50
922.9

1:1 1:1 1½:1 1½:1 8:1 8:1 1½:1 1½:1

18+00

863.4 863.8 861.1

9426 0

19,087 0

18+00 11,188 0

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 180 130 140

18+50 to 19+00 RAMP "C"

OHIO

189
250

GUERNSEY COUNTY
GUE-40-8.93
PART I

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

920 910 900 890 880 870 860 850 840

N.B. U.S. 21

C=4090

853.70
20+50
802.1

1:1 1:1 1½:1 2:1 ½'/ft. 2:1

854.0 851.3 847.6

4090.0

920 910 900 890 880 870 860 850

N.B. U.S. 21

C=4191

856.16
20+00
801.3

1:1 1:1 1½:1 2:1 ½'/ft. 2:1

856.1 856.2 853.8

4191.0

920 910 900 890 880 870 860 850

N.B. U.S. 21

C=5051

858.68
19+50
901.2

1:1 1:1 1½:1 2:1 ½'/ft. 2:1

858.5 858.5 856.2

19+00

5051.0

920 910 900 890 880 870 860

7660.0

8557.0

10843.0

6659.0

19+00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

19+50 to 20+50 RAMP "C"

GUERNSEY COUNTY
GUE-00-8.93
PART 1

(Area from 452+00 N.B. U.S. 21) 22+18 1034 1138 724

C=1138

N.B. U.S. 21

0:1 8:1 2:1 1½:1 1½:1 ½"/ft.

845.8 846.9 844.5

PART 2

846.94
22+00
855.5

3,725

C=2885

N.B. U.S. 21

5.5:1 2:1 1½:1 ½"/ft.

845.2 848.2 848.93 844.5

21+50
878.4

2,885 0

6,435 0

CHANNEL @ 957+00 N.B. U.S. 21

C=4065

N.B. U.S. 21

4.5:1 1:1 1½:1 ½"/ft.

846.7 851.2 851.24 842.8

21+00
884.8

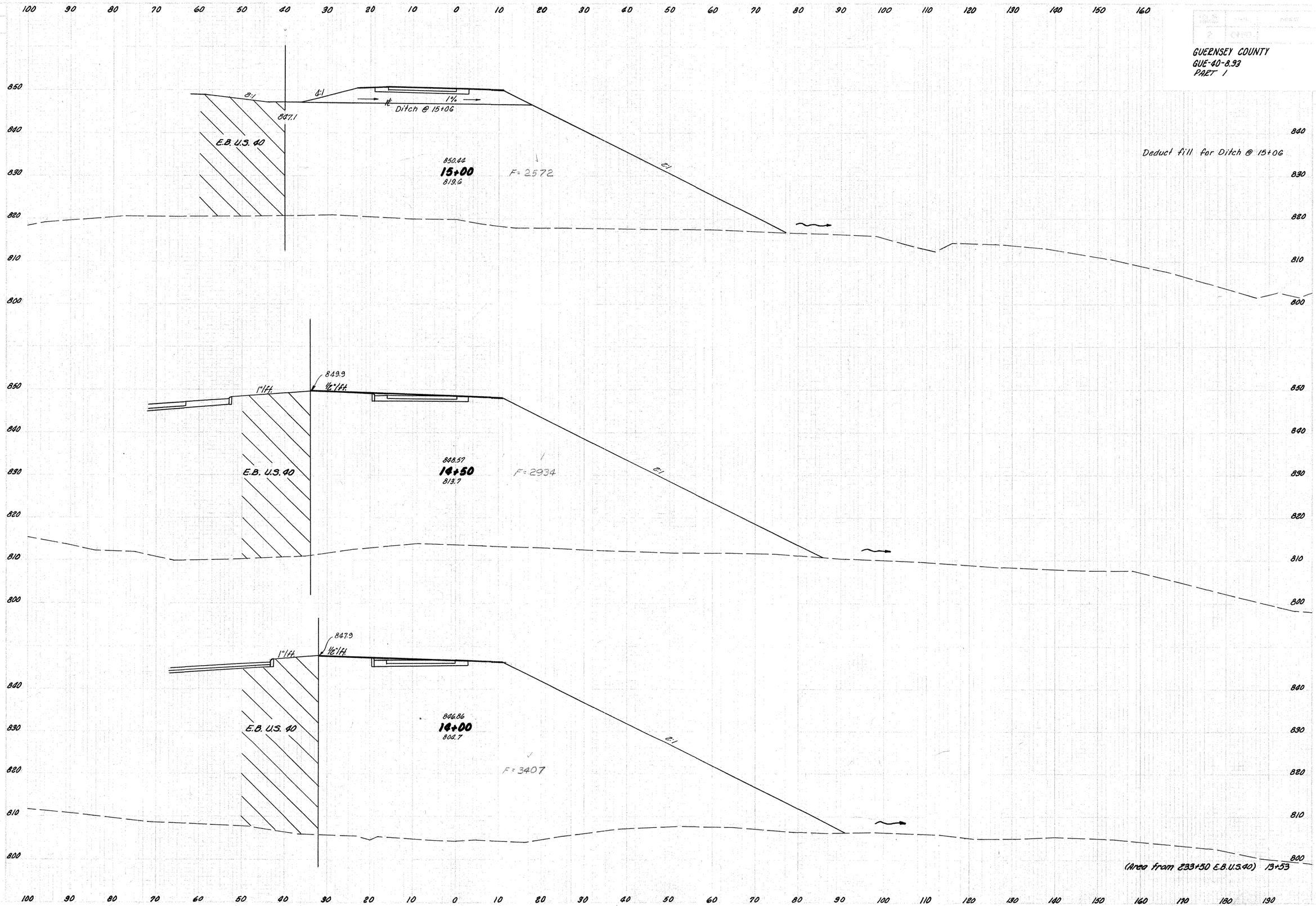
4,065 0

7,551 0

20+50 20+50 4,090 0

21+00 to 22+00 RAMP "C"

GUERNSEY COUNTY
GUE-40-8.93
PART 1



14+00 to 15+00 RAMP "G"

GUERNSEY COUNTY
GUE-40-8.93
PART 1

100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

860
850
840
830
820
810

E.B. U.S. 40
8:1
C=209
8:1
851.0
F=9
C=2
6:1
F=13
C=2.4
6:1
854.0
858.28
17+00
857.1
8:1
8:1
E.B. U.S. 40
850.3
F=1187
8:1
856.32
16+50
842.3
8:1
8:1
E.B. U.S. 40
849.6
F=2157
8:1
854.36
16+00
831.9
8:1
7:1
E.B. U.S. 40
848.2
F=2372
7:1
852.40
15+50
824.1
15+00

0 230 22
0 220 1119
0 1,187
0 3096
0 2,157
0 4,194
0 2,372
0 4,578
0 2,572

100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190

15+00

15+50 to 17+00 RAMP "G"

GUERNSEY COUNTY
GUE-60-8.93
PART 1

100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

910 900 890 880 870 860

E.B. U.S. 40

C=6837

864.12
19+00
907.2

2:1
1:1
8:1
865.2
864.2
856.8

6837 0

890 880 870 860

E.B. U.S. 40

C=1765

864.16
18+50
880.5

2:1
1:1
8:1
863.2
862.2
853.2

10,703 0
1765 0

890 880 870 860

E.B. U.S. 40

C=2737

862.20
18+00
875.6

3:1
8:1
861.3
860.2
852.0

6,916 0
2,737 0

870 860 850

E.B. U.S. 40

C=1222

860.24
17+50
866.4

3:1
8:1
859.2
858.3
851.5
17+00

3851 0
1222 0
230 22

17+00

100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190

17+50 to 19+00 RAMP "G"

ESTIMATE'S	4-1-62	
JOINT JOINT	8-10-62	
RMS & RSB	4-6-62	
	5-24-62	

100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

950 940 930 920 910 900 890 880 870

S.R. U.S. 21

C=4315

870.04
20+00
925.0

C=4682

1:1

1:2

9007 0

4:1

8:1

868.9

866.3

865.9

868.1

15082 0

930 920 910 900 890 880 870

S.R. U.S. 21

C=7581

868.08
19+50
925.7

8:1

1:1

7284 0

13075 0

19+00 4837 0

19+00 Var.

863.0

867.4

867.1

866.1

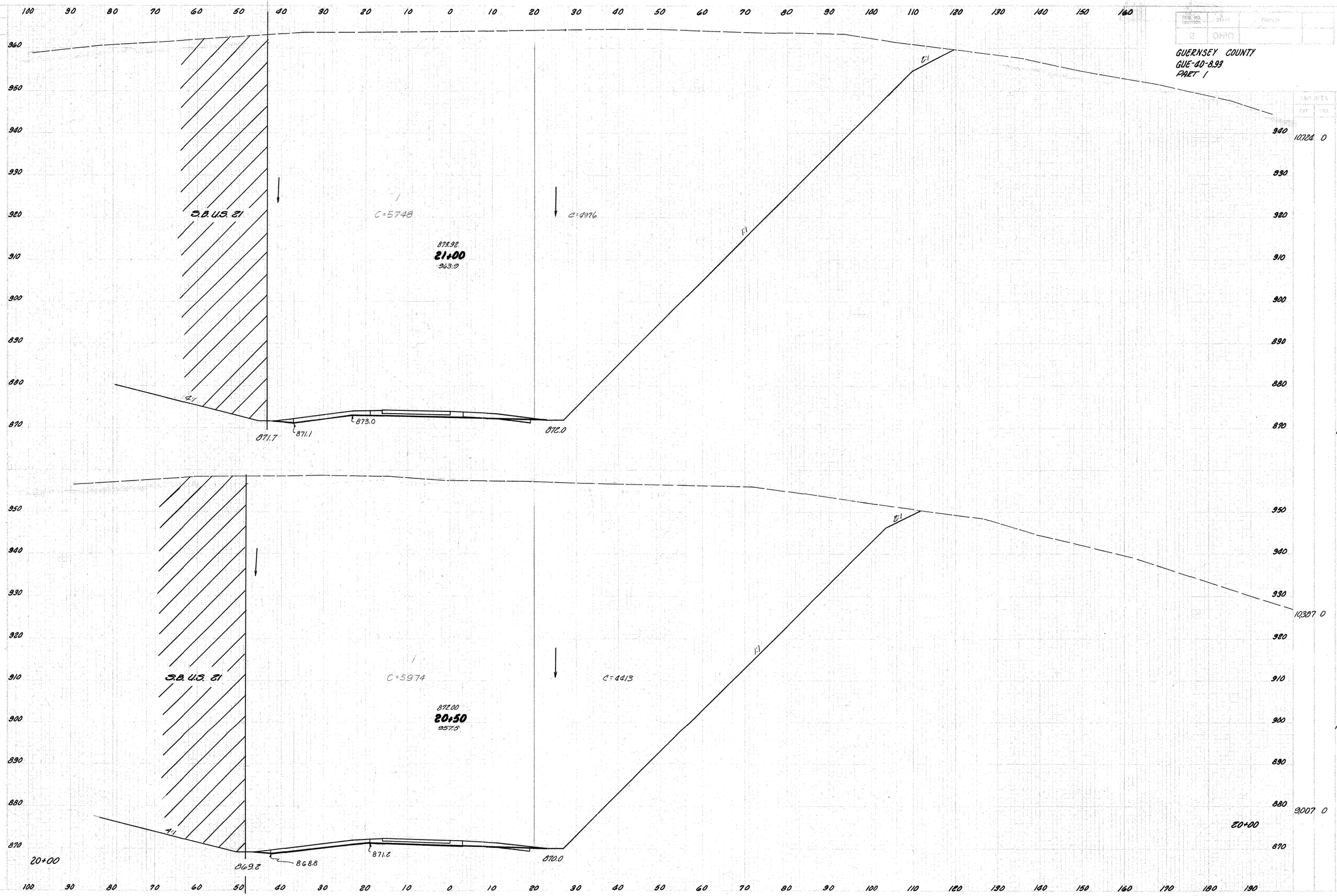
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19+50 to 20+00 RAMP "G"

FED. RD. DIVISION: 2 | STATE: OHIO | PROJECT:

195
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1



20+50 to 21+00 RAMP "6"

SCRIBE
CUT | PUNCH

SHEET NO. | STATE | PROJECT
2 | OHIO

196
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

END AREA: CUT | FILL
SHRINKAGE: CUT | FILL

100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 140 150 160

960 950 940 930 920 910 900 890 880

C=4887

C=5319

S.B. U.S. 21

876.98
22+00
946.0

4:1
8:1
875.8
875.1
876.1
875.0
1:1
8:1

102060

190129

100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190

960 950 940 930 920 910 900 890 880 870

C=5349

C=5328

S.B. U.S. 21

875.59
21+50
946.1

4:1
8:1
874.0
873.5
874.8
873.6
1:1
8:1

106770

198140

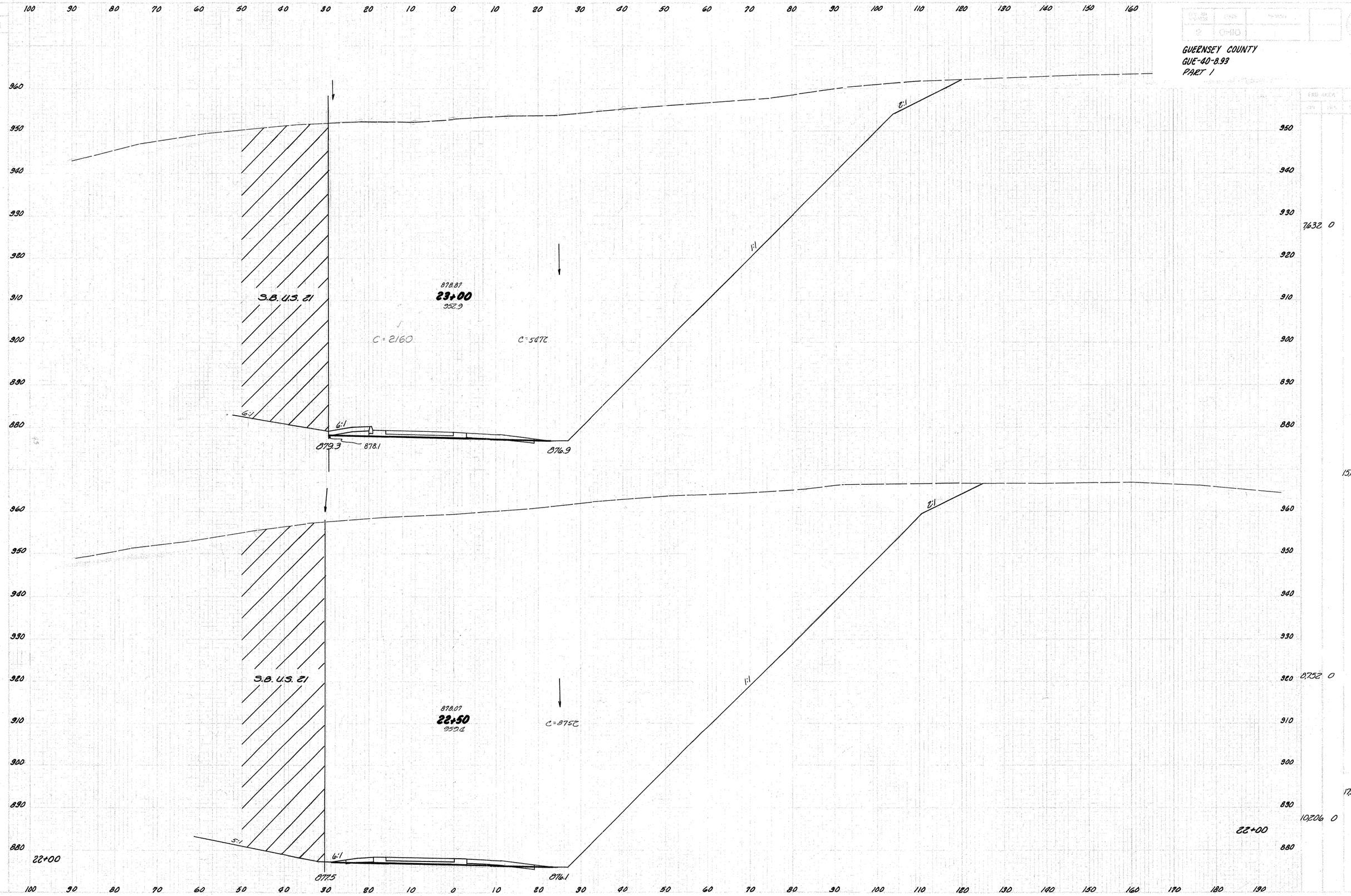
107220

21+00

21+00

21+50 to 22+00 RAMP "G"

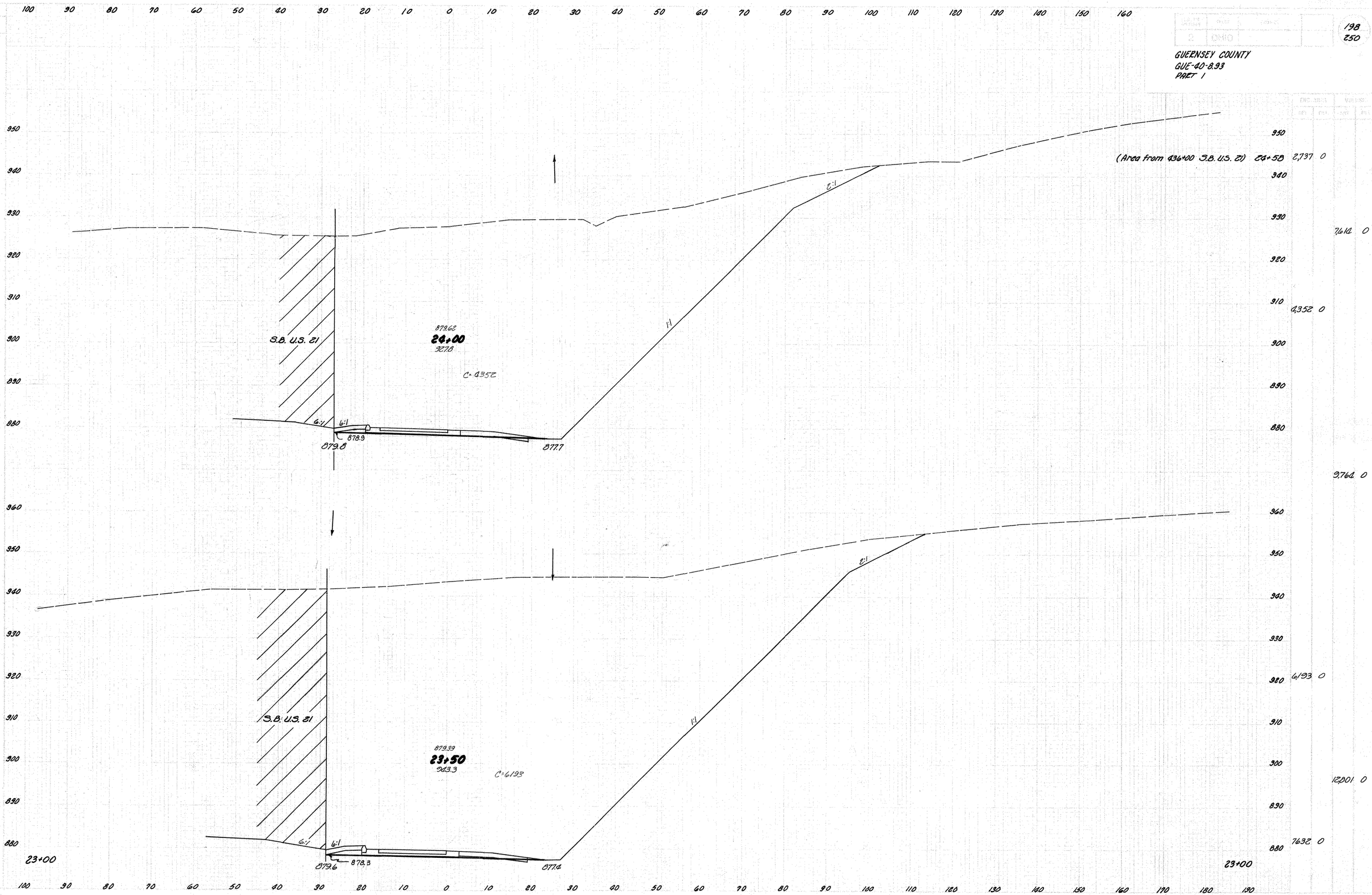
GUERNSEY COUNTY
GUE-40-8.93
PART 1



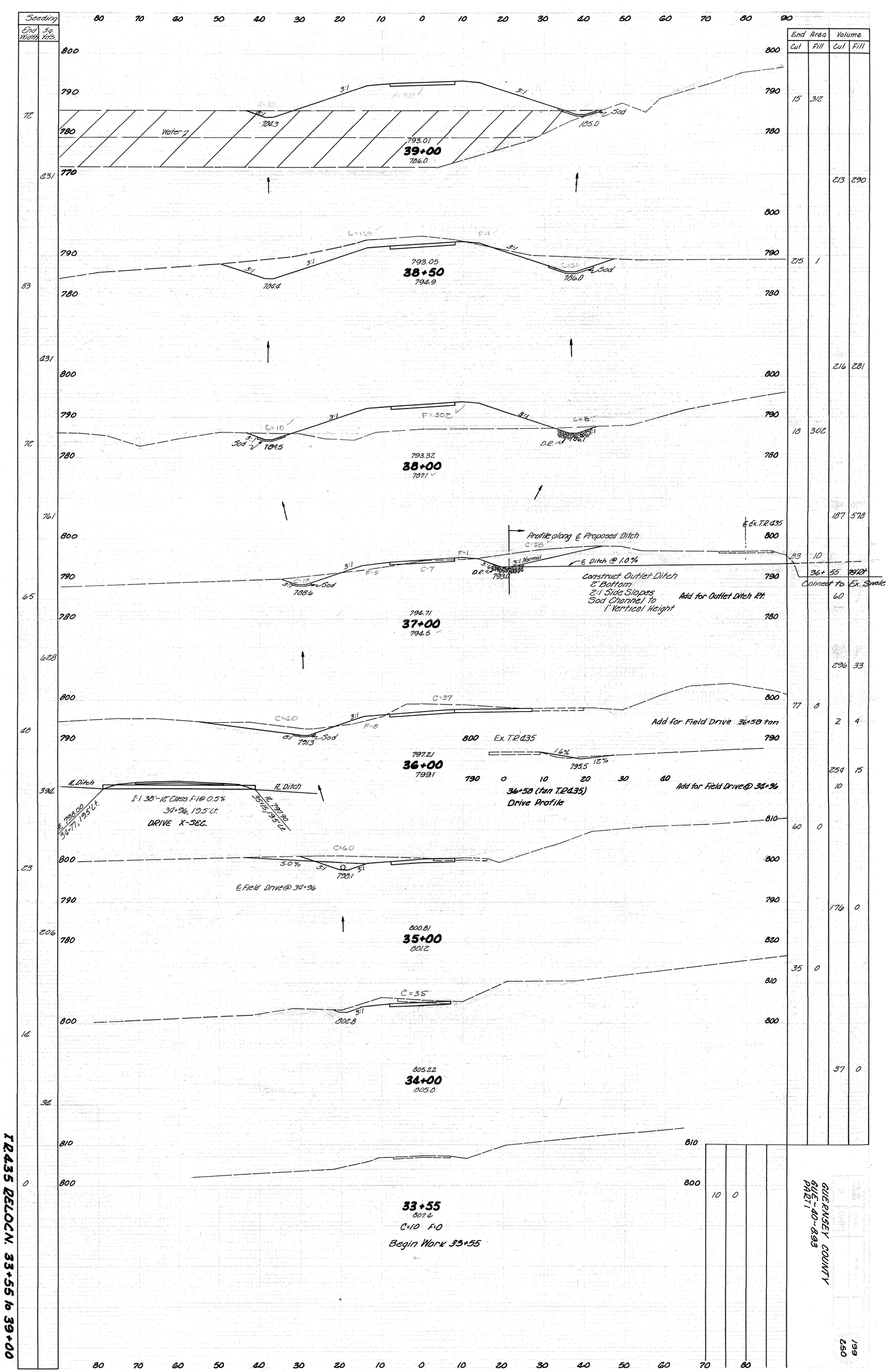
22+50 to 23+00 RAMP "G"

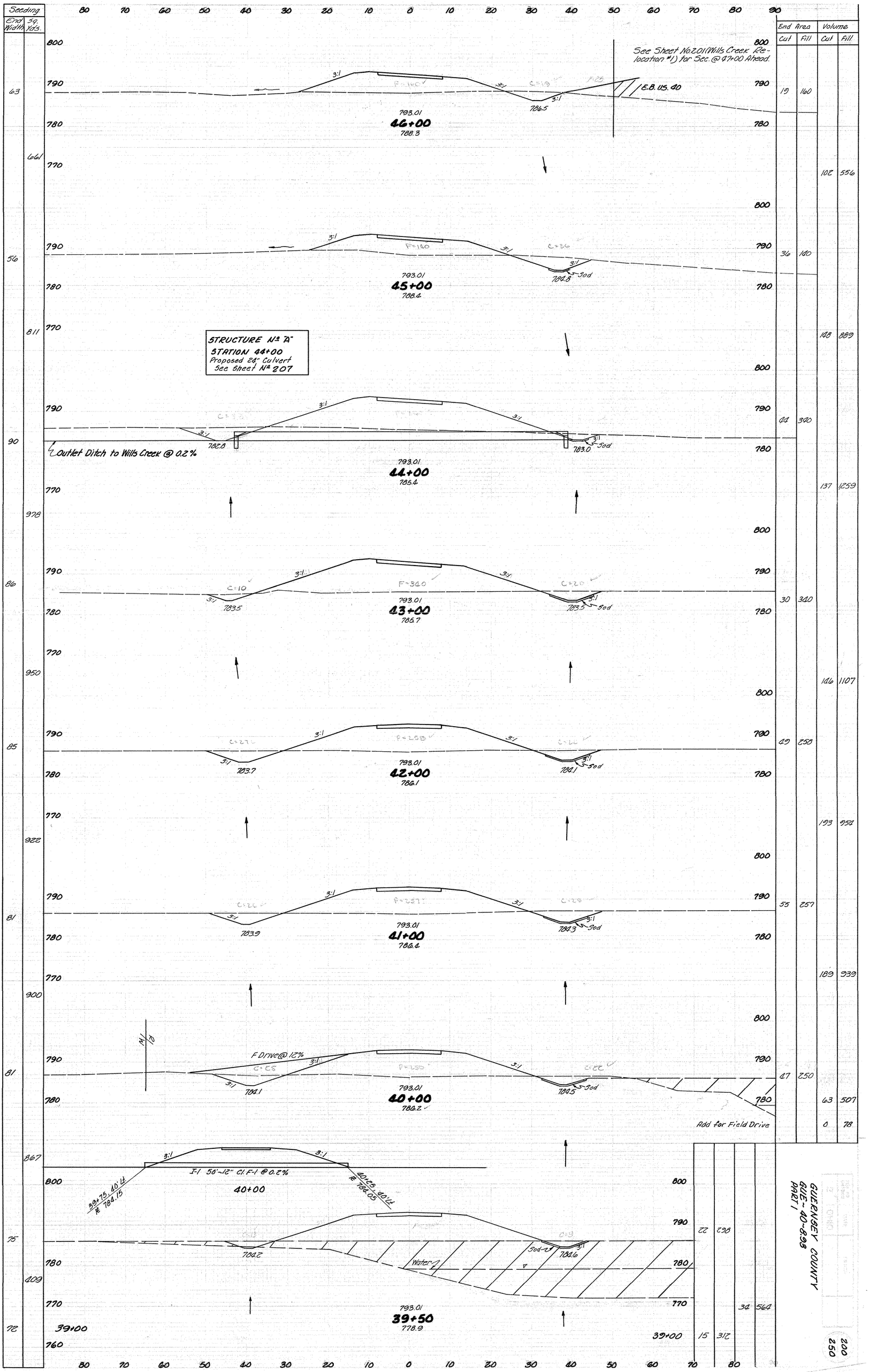
198
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1



23+50 to 24+00 RAMP "G"


Seeding
End Width
Sq. Yds.
80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90
End Area
Volume
Cut
Fill
800
790
780
770
Water 7
793.01
39+00
786.0
3:1
F=1.8
C=10
F=1
C=15.8
Sod
785.0
15 312
213 290
793.05
38+50
784.9
C=15.9
F=1
C=5.0
786.0
215 1
216 281
793.32
38+00
787.1
C=10
F=3.02
C=8
O.E.=0
786.1
18 302
187 578
794.71
37+00
794.5
Profile along ℄ Proposed Ditch
℄ Ex. T.R. 435
C=5.0
F=1
3:1 Normal
℄ Ditch @ 1.0%
O.E.=0
793.0
C=15
F=9
C=7
788.6
Construct Outlet Ditch
℄ Bottom
2:1 Side Slopes
Sod Channel To
1' Vertical Height
Add for Outlet Ditch Rt.
83 10
36+55 791.0
Connect to Ex. Swale
60
796 33
797.21
36+00
799.1
C=4.0
C=3.7
F=8
791.3
Add for Field Drive 36+58 tan
2 4
254 15
10
36+58 (tan T.R. 435)
Drive Profile
Add for Field Drive @ 34+96
Rt. Ditch
Rt. Ditch
Rt. 798.00
34+71, 19.5 Lt.
F-1 30'-12" Class F-1@ 0.5%
34+96, 19.5' Lt.
DRIVE X-SEC.
35+15 Rt. 797.90
19.5' Lt.
77 8
60 0
C=6.0
5.0%
799.1
℄ Field Drive @ 34+96
800.81
35+00
801.2
C=3.5
802.8
176 0
35 0
805.22
34+00
805.8
37 0
33+55
807.4
C=10 F=0
Begin Work 33+55
GUERNSEY COUNTY
GUE-40-8.93
PART 1
TR 435 RELOCN. 33+55 to 39+00
199
250


Seeding
End Width
Sq. Yds.
End Area
Cut
Fill
Volume
Cut
Fill
See Sheet No. 201 (Wills Creek Relocation "J") for Sec. @ 47+00 Ahead.
E.B. US. 40
46+00
45+00
STRUCTURE No. "A"
STATION 44+00
Proposed 24" Culvert
See Sheet No. 207
Outlet Ditch to Wills Creek @ 0.2%
44+00
43+00
42+00
41+00
F. Drive @ 12%
40+00
Add for Field Drive
I-1 50'-12" Cl. F-1 @ 0.2%
39+00
Water
39+50
T.R. 435 RELOCN. 39+50 to 46+00
GUERNSEY COUNTY
RTE.-40-8.98
PART 1

GUERNSEY COUNTY
GUE-40-8.93
PART 1

201
250

STRUCTURE N° "B"
STATION 48+69
Proposed 30" Culvert
See Sheet N° 208

CHANNEL CUT

℄ Ditch 1.2%

℄ Ditch 3

E-3
Area | Vol

Area Ahead

Area Back

772.06
48+69
784.9

793.01
48+69
785.2

787.5

772.11
48+00
784.3

793.01
48+00
784.1

791.0

772.18
47+00
788.3

793.01
47+00
786.7

791.6

Total Area Ahead

Area Back
Wills Creek Reloc.

Area Back
T.R. 435

Granular Material

Begin Granular Embankment
46+50

E.B. U.S. 40

N.B. U.S. 40

From 46+00 T.R. 435
From 46+00 Wills Creek N°1

47+00 to 48+69
TWP. RD. 435 RELOCN. &
WILLS CREEK CHANNEL RELOCN. N°1

GUERNSEY COUNTY
GUE-40-8.93
PART 1

See Ramp "A" Sections for T.R.435 Ahead

End Dumped Rock on Slopes 52+00

Total Area Back

Area Ahead | Area Ahead

52+00 Channel Reloc No.1

CHANNEL CUT

E-3

Area	Vol.
0	389
	2676
0	1812
888	
	3722
0	4615
0	882
2353	
0	5034
0	2470
768	
0	2144
3004	
0	1295

52+70 T.R.435 (from 31+50 Ramp "A")

STRUCTURE Nº "C"
STATION 50+88
Proposed 27" Culvert
See Sheet Nº 209

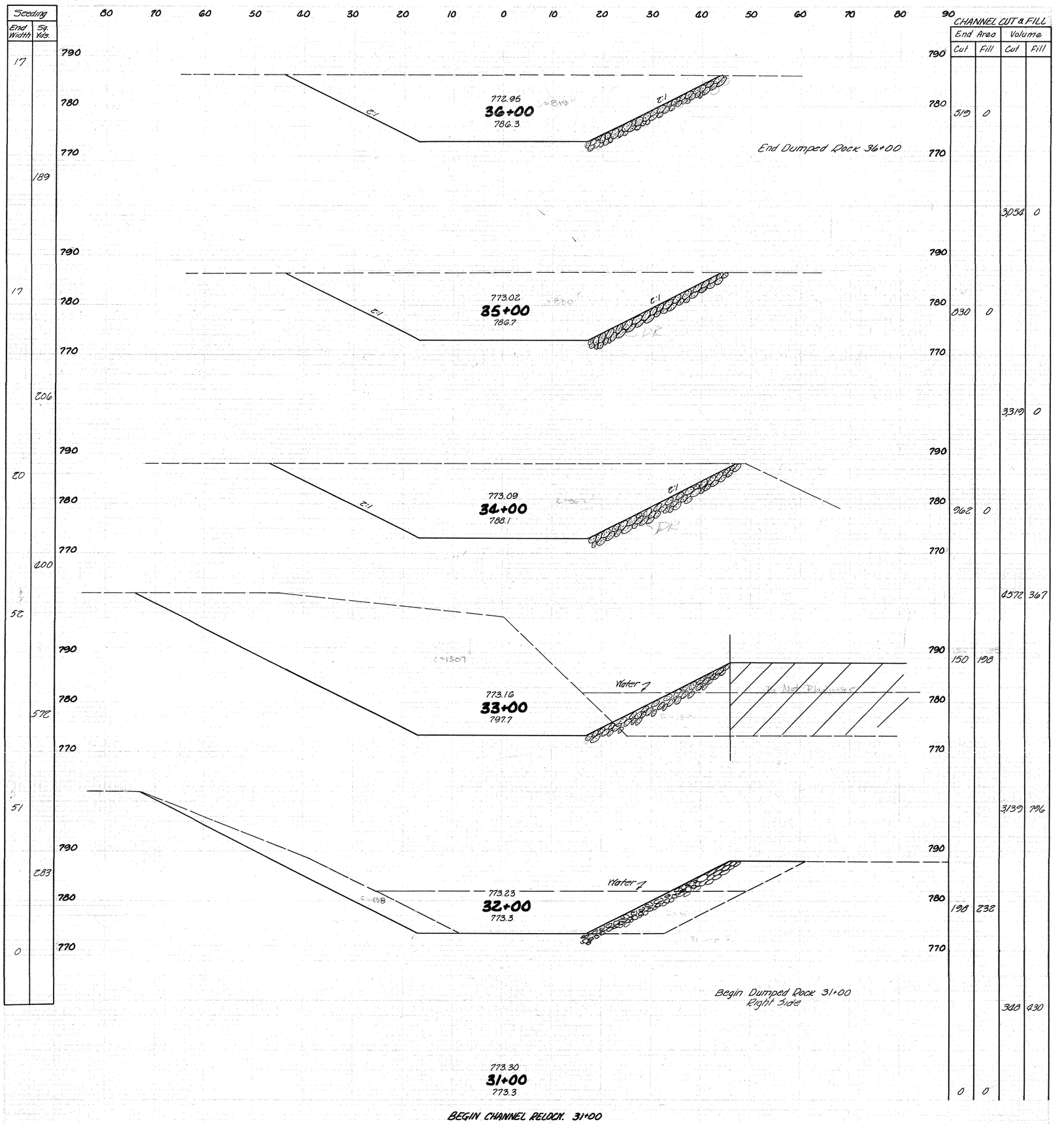
W.B. U.S. 40

E.B. U.S. 40

Granular Material

Water ?

50+00 to 52+00
TWP. RD. 435 RELOCN. &
WILLS CREEK CHANNEL RELOCN. Nº 1



WILLS CREEK CHANNEL RELOCN. #1

31+00 to 36+00

GUERNSEY COUNTY
GUE-40-8.93
PART 1

223
230

| CHANNEL CUT | | |

CHANNEL CUT & FILL

E-3

Area		Volume	
Cut	Fill	Cut	Fill
0	0		0
424	0	725	0
1012	0	4926	0
3004	0	9698	0
2075	0	10087	0
0	607	5334	756
448	573	1837	1815
167	468	1946	1925

GUERNSEY COUNTY
GUE-40-8.93
PART 1

205
250

900			
1907		3209	0
0			0
863			888

END CHANNEL RELOCN. No. 1 61+00
F=0
C+0

61+00

60+00 — 771.27 — 778.2

59+00 — 771.34 — 801.8

58+00 — 771.41 — 802.9

57+00 — 771.48 — 801.9

56+00 — 771.55 — 778.8

55+00 — 771.62 — 786.0

54+00 — 771.69 — 782.3

53+00 — 771.76

52+00

End Dumped Rock
56+50 Left & Right

T.R. 135

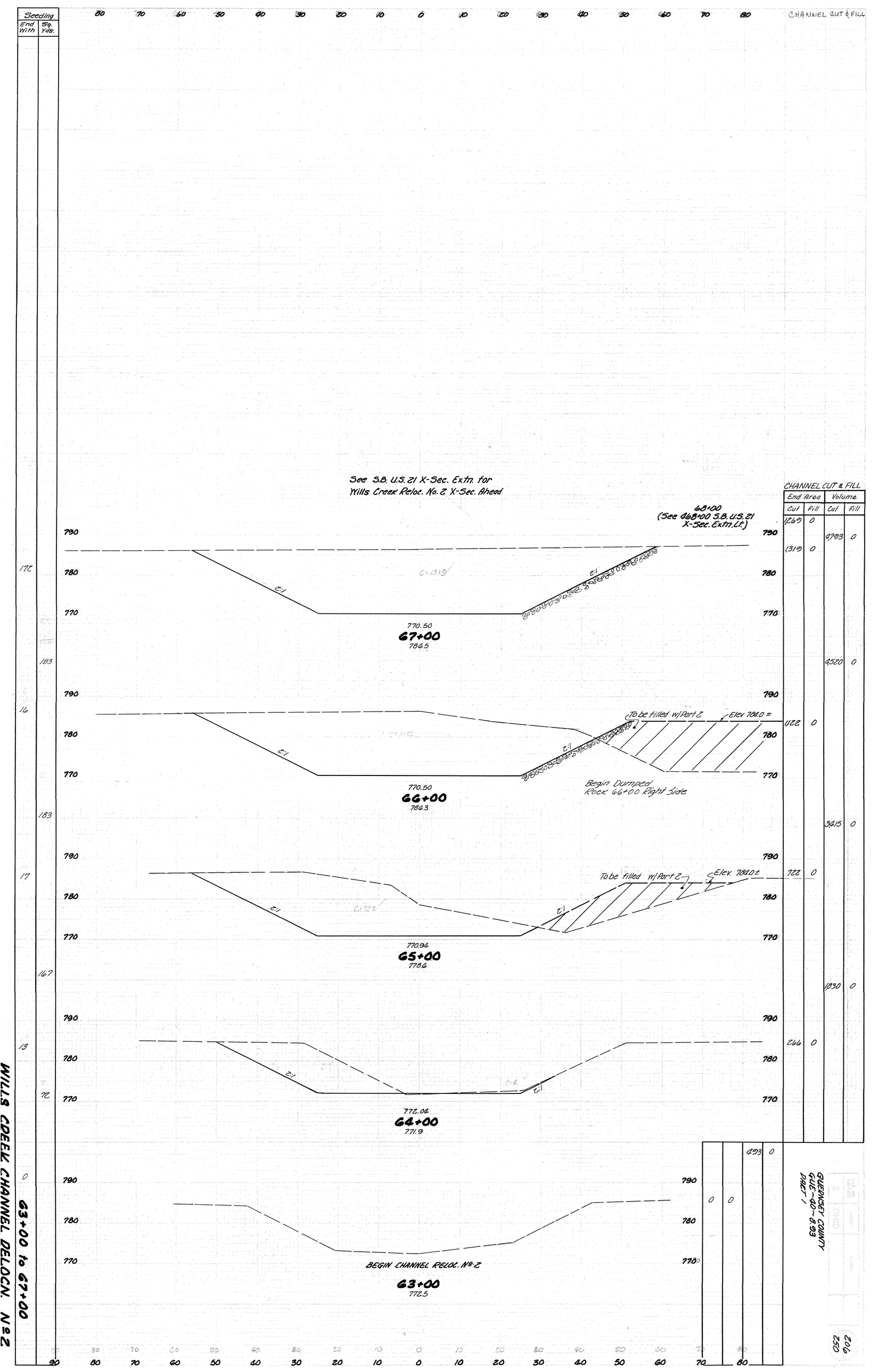
Elev. 784.0

Water Surface

Seeding
End Sq
Width Yds

0	END
53	683
70	978
106	1129
97	539
0	117
12	117
0	0
0	192
87	

WILLS CREEK CHANNEL RELOCN. No. 1 53+00 to 60+00


Seeding
End With
Sq. Yds.
CHANNEL CUT & FILL
See S.B. U.S. 21 X-Sec. Extn. for Wills Creek Reloc. No. 2 X-Sec. Ahead
63+00 (See 468+00 S.B. U.S. 21 X-Sec. Extn. Lt.)
770.50
67+00
786.5
C=1319'
2:1
1:2
770.50
66+00
786.3
To be filled w/Part 2
Elev 784.0 ±
Begin Dumped Rock 66+00 Right Side
770.94
65+00
778.6
772.04
64+00
771.9
BEGIN CHANNEL RELOC. No. 2
63+00
772.5
CHANNEL CUT & FILL
End Area
Volume
Cut
Fill
1269
0
1312
0
4793
0
4520
0
1122
0
3415
0
722
0
1030
0
266
0
493
0
0
0
WILLS CREEK CHANNEL RELOCN. No 2
63+00 to 67+00
QUERNSEY COUNTY
GUE-40-8.93
PART I
206
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

WILLS CREEK CHANNEL RELOCATION Nº 1

Begin Dumped Rock 8+17

8+33 End Channel

R/W

℄ Proposed Channel

℄ Twp. Rd. 435 Relocation

44+50

43+00

42+50

3:1

2:1

Δ 39°-00'

22'

43'

39'

90° Tan. to Curve

44+00 T.R. 435 Reloc.
10+00 Culvert

LA

N

STRUCTURE NO. "A" ESTIMATED QUANTITIES TO SHEET NO. 11	
I-1 32"-24" Cl. A-1, M-6.6(a) or M-6.8(b)	
I-2 Masonry	0.82 C.Y.
I-10 Dumped Rock Channel Prot.	130 C.Y.
E-3 Channel Excavation	218 C.Y.
Q10	27 C.F.S.
Drainage Area	16 Ac.

R. WILLS CREEK CHANNEL RELOCATION Nº 1

0.2%

30"

℄ Ditch

Outlet Ditch to Wills Creek @ 0.2%

1.5' Ditch Depth

℄ T.R. 435 Relocation

32"-24" Class A-1 Pipe M-6.6(a) or M-6.8(b) @ 0.2%

℄ 782.83
+00.03 Lt.
HW-E ENOWALL

℄ 782.99
+00.39 Rt.
HW-E ENOWALL

800
790
780
770

8+00 8+50 9+00 9+50 10+00

Sta. 9+53, 0 Cut

Sta. 8+33, 0 Cut

E-3	A. S.F.	V. C.Y.
9+53	0	
		7
9+42	36	
		188
8+50	76	
		23
8+33	0	
		218

SCALE 1" = 10'

BOX CVD 01.11 7-27-82

CULVERT DETAIL 44+00 T.R. 435 RELOCATION

F.H.G. RD. DIVISION	STATE	PROJECT		208
2	OHIO			250

GUERNSEY COUNTY
GUE-40-8.93
PART-1

WILLS CREEK CHANNEL RELOCATION No 1

12:1 2:1

DUMPED ROCK
32' Lt. to 48.5' Lt.
4' Bottom
2:1 Side Slopes
1.5' Ditch Depth
30" Thickness

℄ Survey & Construction T.R.435 48+50

48+69
32'
28'
27°-00'
℄ T.R.435 Relocation
℄ Ditch 7
℄ Riprap
48+69 55' Lt.
℄ 786.1
+29.34' Lt.
℄ 788.50
+29.28' Rt.
℄ 787.50

DUMPED ROCK
37' Lt. to 105' Lt.
4' Bottom
12' Width
18" Thickness

See Sheet No. 11 for Dumped Rock Quantities

48+69
80' Lt.
48+69
105' Lt.

RIPRAP
28' Lt. to 37' Lt.
4' Bottom
2:1 Side Slopes
2' Ditch Depth
(Payment for Riprap as per plan. included in Cost per S.Y. I-10 Cut-off Wall to be

+29.34' Rt.
℄ 788.50
25'-12" Cut Off Wall

STRUCTURE NO. "B" ESTIMATED QUANTITIES TO SHEET NO. 11

I-1	60"~30" Cl. A-1 M-6.4(d)	
I-10	Dumped Rock Channel Prot	64 C.Y.
I-10	Riprap, Using 6" Reinforced Concrete Slab, as per plan	15 S.Y.
Q10		29 c.f.s.
	Drainage Area	18.6 Ac.

810 800 790 780 770 760

12:1 2:1 3:1

℄ T.R. 435 Relocation
60"~30" Cl. A-1 M-6.4 (d) @ 1.68 %
- 1.68 %
℄ Ditch 7
℄ Riprap
+29.34' Lt. ℄ 788.50
+29.28' Rt. ℄ 787.50

SCALE 1"=10'

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110

CULVERT DETAIL 48+69 T.R.435 RELOC.

SHEET NUMBER	SHEET			
2	CHIC			

209
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

N

℄ RAMP "A" STRUCTURE

WILLS CREEK CHANNEL RELOCATION No 1

CENTER - EXISTING WILLS CREEK

℄ Survey & Construction T.R. 435 Relocation

50+50

51+00

29'

25'

50+83 38' Rt. Cut-off Wall 2.5'x12'x1' Thick

Cl. 790.0 Rip Rap

Cl. 800.0

50+83 29' Lt. ℄ 787.5

Dumped Rock
29' Lt. to 48' Lt.
4' Bottom
2:1 Side Slopes
30" Thickness
1.5' Ditch depth

Rip Rap
25' Rt. to 33' Rt.
4' Bottom
2:1 Side Slopes
2' Ditch Depth
(Payment for Cut-off Wall to be included in Cost per S.Y. I-10 Riprap as per plan)

Dumped Rock
33' Rt. to 103' Rt.
4' Bottom
12' Width
18" Thickness

℄ Ditch

50+92 103' Rt.

50+83 75' Rt.

STRUCTURE NO. "C" ESTIMATED QUANTITIES TO SHEET NO. 11	
I-1 54'-27" Cl. A-1 M-6.4(d)	
I-10 Dumped Rock Channel Prot.	70 C.Y.
I-10 Riprap, Using 6" Reinforced Concrete Slab, as per plan	14 S.Y.
Q10	20 c.f.s.
Drainage Area	10 Ac.

SCALE 1"=10'

℄ W.B.U.S. 40

224

℄ T.R. 435 Relocation

54'-27" Cl. A-1 M-6.4(d) @ 1.50%

1.50%

Riprap 6"

+83.25' Rt. ℄ 788.50

℄ Ditch

820
810
800
790
780
770

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100

CULVERT DETAIL 50+83 T.R. 435 RELOCATION

FILING: 7-27-62

FED. ROAD DIVISION	STATE	DISTRICT	F.A.
2	OHIO		

210
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

Ex. WILLS CREEK

Ex. Wills Creek to be Filled

PROPOSED WILLS CREEK CHANNEL RELOCATION No 1

54+00

53+50

Local Channel Dumped Rock 54' LT.

T.R. 435 RELOCATION

53+50

59+00

53+21 T.R. 435 Reloc.

90°00' Tan to Curve

36'

28'

2:1

3:1

12:1

R/W

N

STRUCTURE No "D" ESTIMATED QUANTITES TO SHEET No 11

I-1	64'-27" C1A-1.1 M-6.4 (d)	
I.10	Dumped Rock Channel Protection	16 CY.
E-3	Channel Excavation	6 C.Y.
Q-10		24 c.f.s.
Drainage Area		9.5 Ac.

Scale 1"=10'

EX. WILLS CREEK CHANNEL

℄ WILLS CREEK CHANNEL LOCATION No 1

℄ T.R.435 Relocation

30"

64'-27" Class A1 M-6.4 A(d) @ 3.6%

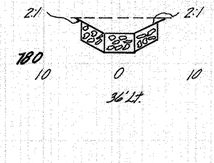
1.0 %

℄ 78+40 +21, 54 LT.

℄ 78+76 +21, 28 RT.

810
800
790
780
770

180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80



E-3	
A.	V.
S.F.	C.Y.
36' Lt. 15	5
50' Lt. 5	1
54' Lt. 0	0
	6

CULVERT DETAIL 53+21 T.R. 435 RELOCAT

GUERNSEY COUNTY
GUE-40-8.93
PART 1

WILLS CREEK CHANNEL RELOCATION N° 2

Begin Channel & Dumped Rock, Rt

150'R
Δ=122°30'

Dumped Rock
30" Thickness
Protect to 4'
Vertical Height

Ex. 24" Water Line

℄ T.R.435 RELOCATION

℄ LR

RAMP "A"

℄ SURVEY & CONSTRUCTION SOUTH BOUND U.S.21 ADD

164'

100'

90°00

4GB+00 S.B.U.S.21 = 10+00 Culvert

EXISTING WILLS CREEK

LEVEL 817.5

LEVEL 805.0

Ex. 36" C.M.P.

Ex. ℄ 783.13

Ex. 72" See plate

Ex. 16" Water Line

Ex. 24" Water Line

SOUTH BOUND U.S. 21

EX. DAM

℄ W

℄ W

SCALE 1"=20'

℄ S.B.U.S.21

℄ T.R.435 Relocation

℄ Wills Creek Channel Relocation N° 2

811.2

2:1

2.5:1

10%

264'-90" Class A-1 M-6.4(g) 8-5 Gage @ 0.2%

Top of Water

EX. S.B. U.S. 21 SLOPE

℄ 782.0
+00, 164' Lt.
HW-C Headwall

℄ 782.53
+00, 100' Rt.
HW-C Headwall

7+00 8+00 9+00 10+00 11+00

840 820 800 780 760

C-3

A	V
SF	C.Y.
62	
	362
76	
	17
0	
	381

8+36 8+36 62 362
6+96 76 17
6+82 0 381

780 20 0 20

8+36

780 20 0 20

6+96

6+82, zero cut

STRUCTURE NO. GUE-21-0913, EST. QUANTITIES TO SHEET NO. 11		
I-1	264'-90" Class A-1 M-6.4(g) 8-5 Gage	
I-2	Masonry	7C.Y.
I-10	Dumped Rock Channel Prot.	303C.Y.
C-3	Channel Excavation	381C.Y.
Q50		292c.f.s.
	Drainage Area	336Ac.

G-10

CULVERT DETAIL 468+00 S.B. U.S. 21

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

212/250

GUERNSEY COUNTY
GUE-40-8.93
PART I

NOTE: Existing stream bed shall be filled to top. of existing banks.

N

℄ WB US 40

℄ EB US 40

℄ Surv. & Const. US 40

℄ Penna. RR

WILLS CREEK

Slope to drain

End WB Appr. Slab Sta. 198+38.75

End EB Appr. Slab Sta. 199+88.75

Sta. 200+87.80, US 40

Sta. 2511+21.01, Penna. RR

Begin WB Appr. Slab Sta. 202+33.25

Begin EB Appr. Slab Sta. 203+83.25

Critical Vertical Clearance Point

Taper 1:48

℄ Track

16'-0"

5'-0"

Front slope 3:1 Normal

Existing Ground

GRADING CONTROL

Wire mesh and sod (typ)

CURVE DATA
PVI - Sta. 203+00.00
VC - 1300'
Elev - 827.60
Corrr -4.49'
Prof. Grade - 823.11
$g_1 = +1.28\%$; $g_2 = -1.48\%$

PLAN

Bridge Limits = 394.50'

Elev. 805.6± WB
Elev. 806.4± EB

Elev. 812.20 (E.B.)
Elev. 811.10 (W.B.)

Slope Varies

30'-0"

23'-0" + 1'-0" track raise = 24'-0" Req'd.
24'-0½" Actual

Elev. 784.0± WB
Elev. 784.0± EB

Elev. 782.0± WB
Elev. 788.0± EB

Existing Ground

Elev. 812.80 (EB)
Elev. 812.90 (WB)

Slope Varies

Crushed Aggregate Slope Protection (typ)

Elev. 807.1 ± WB
Elev. 807.2 ± EB

820.96 | 821.82 | 822.46 | 822.89 | 823.11 | 823.11 | 822.91

+1.28% | -1.48%

198 | 199 | 200 | 201 | 202 | 203 | 204

830 | 810 | 790 | 770

PROFILE along ℄ US 40

PROPOSED STRUCTURES - 2

TYPE: Welded steel girder with suspended composite span with reinforced concrete deck and reinforced concrete substructure
SPANS: 120'-0", 150'-0", 120'-0" c/c sub-structure brgs.
ROADWAY: 30'-0" c/c 2'-3" safety curbs with concrete parapets and aluminum railing.
LOADING: CF 2000 (1957) Adequate for AASHO alternate loading.
SKEW: None
WEARING SURFACE: 1" monolithic concrete.
APPROACH SLABS: 25'-0" long See Sheet
ALIGNMENT: Tangent.
Nº of TRACKS: 1 Existing

Piers shall be T-type 3'-0" thick.

FOR GRADING INFORMATION ONLY
STRUCTURE IS NOT A PART OF THIS PLAN

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

SITE PLAN
BRIDGE NO. GUE-40-0903 (EB and WB)
U.S. 40 over PENNA. R.R.
GUERNSEY COUNTY
Sta. 198+38.75
Sta. 203+83.25

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HT	HT	D.W.H.	Pardo	TLU 7/11/64		

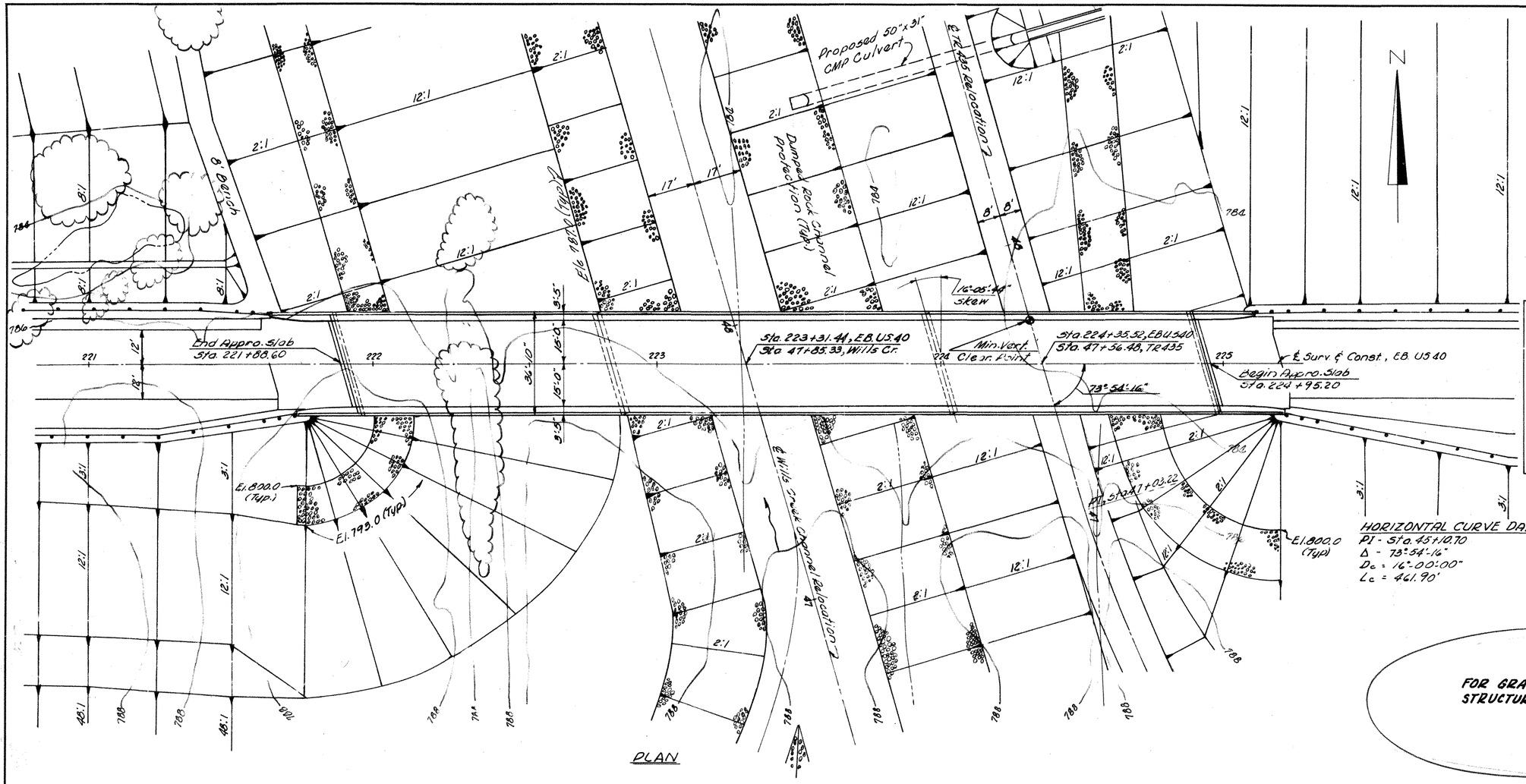
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

213
250

GUERNSEY COUNTY
GUE 40 - 8.93
PART 1

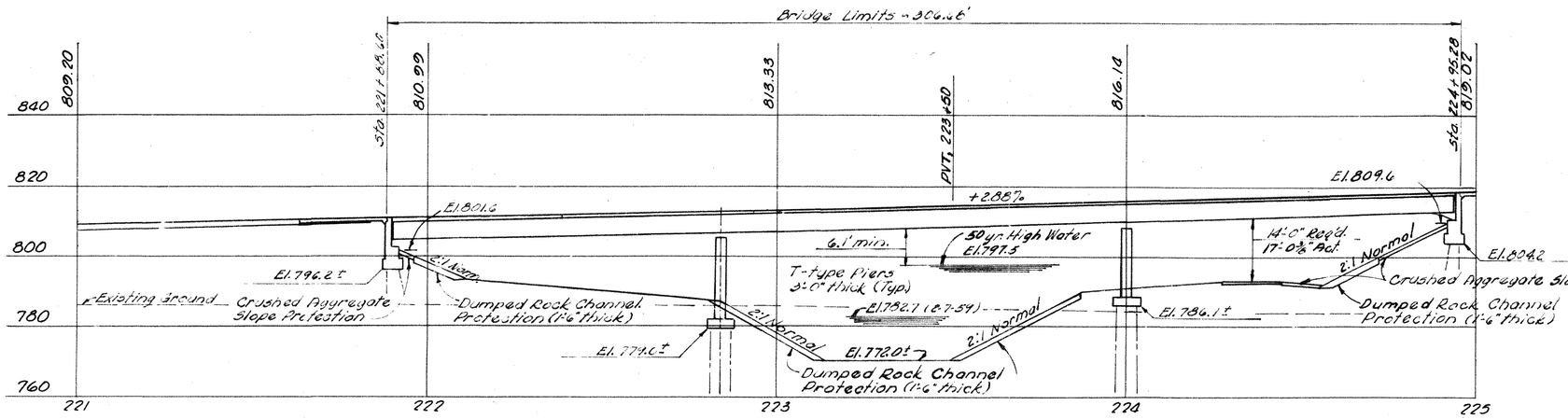
EXISTING STRUCTURE across Wills Creek at Byesville
TYPE: Continuous steel beam
SPANS: 64'-0", 80'-0", 64'-0"
ROADWAY: 30'-0" f/f 2'-3" safety curbs
SKEW: 20°-00' Left Forward

PROPOSED STRUCTURE
TYPE: Continuous welded steel girder with reinforced concrete deck and sub structure
SPANS: 99'-0", 114'-0", 93'-0" @ bearings
ROADWAY: 30'-0" f/f 2'-3" safety curbs with conc. parapets and aluminum railings
LOADING: CF2000 (1957) Adequate for AASHO alternate loading.
WEARING SURFACE: 1" monolithic concrete.
SKEW: 16°-05'-44" Right Forward
ALIGNMENT: Tangent
APPROACH SLABS: 25'-0" long, see sheet



HORIZONTAL CURVE DATA (TR 435)
PI - Sta. 45+10.70
Δ - 73°-54'-16"
D_c = 16°-00'-00"
L_c = 461.90'

FOR GRADING INFORMATION ONLY
STRUCTURE IS NOT A PART OF THIS PLAN



PROFILE along ℄ EB US 40

VERTICAL CURVE DATA
PVI - Sta. 219+50
V.C. = 800'
Elev. = 803.18
Corr. = 4.36
P.G. 807.54
g_1 = +1.48% ; g_2 = +2.88%

HIGH WATER DATA
Existing @ Byesville
Drainage Area = 287 sq. mi.
Official Plan Flood, Modified = 801.2
Effective Waterway below 801.2 = 2690 sq. ft.

Proposed
Drainage Area = 311 sq. mi.
50-Year Q = 12,000 cfs
Effective Waterway below 797.5 = 3000 sq. ft.

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

SITE PLAN
BRIDGE Nº GUE 40-0944 (EB)
EB US 40 over Wills Creek

GUERNSEY COUNTY
221+88.60
224+95.28

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
fwd	fwd		TLU	TLU	7/11/62	

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

214
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

PROPOSED STRUCTURE (Ramp "A")

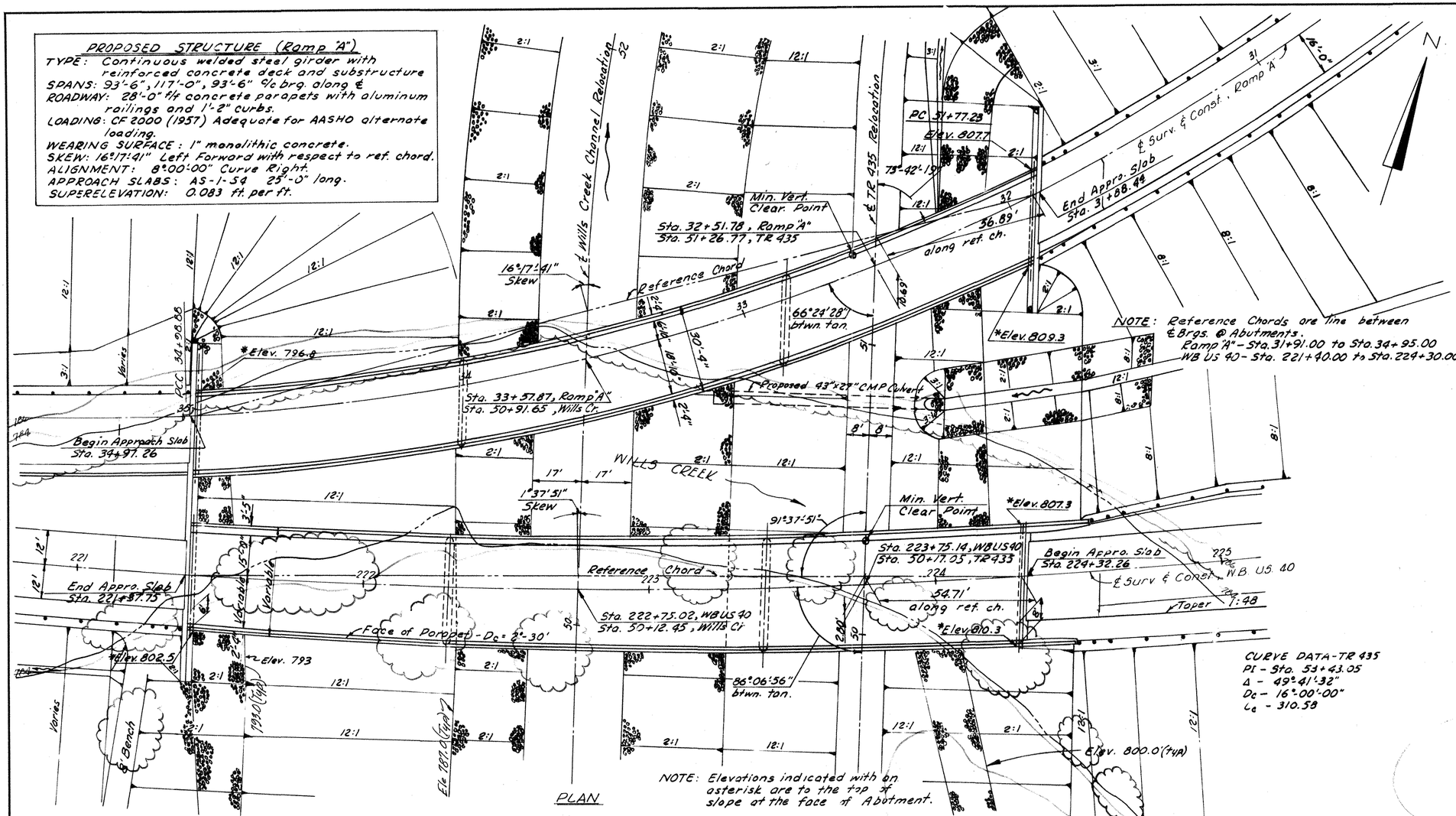
TYPE: Continuous welded steel girder with reinforced concrete deck and substructure
SPANS: 93'-6", 117'-0", 93'-6" ℄ brg. along ℄
ROADWAY: 28'-0" f/f concrete parapets with aluminum railings and 1'-2" curbs.
LOADING: CF 2000 (1957) Adequate for AASHO alternate loading.
WEARING SURFACE: 1" monolithic concrete.
SKEW: 16°17'41" Left Forward with respect to ref. chord.
ALIGNMENT: 8°00'00" Curve Right.
APPROACH SLABS: AS-1-54 25'-0" long.
SUPERELEVATION: 0.083 ft. per ft.

EXISTING STRUCTURE across Wills Creek at Byesville.

TYPE: Continuous steel beam.
SPANS: 64'-0", 80'-0", 64'-0"
ROADWAY: 30'-0" f/f 2'-3" safety curbs.
SKEW: 20°00' Left Forward.

PROPOSED STRUCTURE (WB US 40)

TYPE: Continuous welded steel girder with reinforced concrete deck and substructure.
SPANS: 89'-6", 111'-0", 89'-6" ℄ brgs. along ℄.
ROADWAY: Variable width between concrete parapets with aluminum railings. 2'-3" safety curb (North) 1'-2" curb (South)
LOADING: CF 2000 (1957) Adequate for AASHO alternate loading.
WEARING SURFACE: 1" monolithic concrete.
SKEW: 1°37'51" Left Forward with respect to Ref. Chord.
ALIGNMENT: 2°30'00" Curve Left.
APPROACH SLABS: AS-1-54 25'-0" long
SUPERELEVATION: 0.081 ft. per ft.



PLAN

NOTE: Elevations indicated with an asterisk are to the top of slope at the face of Abutment.

CURVE DATA-TR 435
PI - Sta. 53+43.05
Δ - 49°41'32"
Dc - 16°00'00"
Lc - 310.58

FOR GRADING INFORMATION ONLY
STRUCTURE IS NOT A PART OF THIS PLAN

CURVE DATA

Ramp "A"

PI - Sta. 32+19.72
Δ - 47°10'02"
Dc - 8°00'
Lc - 489.59'
Ls - 200'

PVI - Sta. 34+50.00
VC - 250'
Elev - 805.92
Corr. - 1.10'
Prof. Gr. 807.02
g1 = -4.20% g2 = -0.68%

W.B. U.S. 40

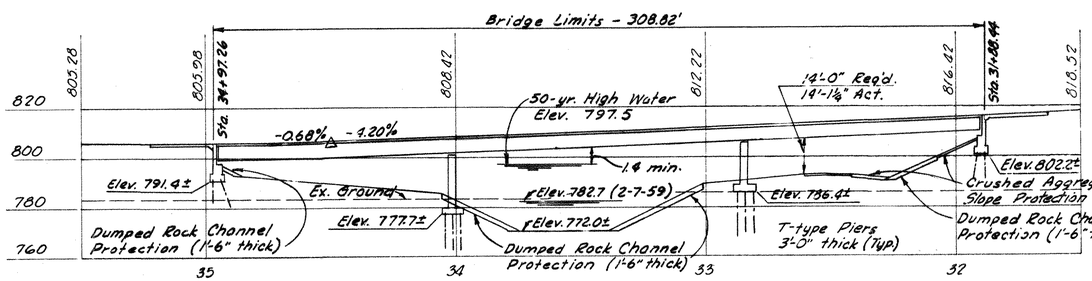
PI - Sta. 220+80.95
Δ - 33°00'00"
Dc - 2°30'00"
Lc - 1195.00'
Ls - 250'

PVI - Sta. 219+50.00
VC - 800'
Elev - 803.18
Corr. - 4.44'
Prof. Gr. 807.62
g1 = -1.98% g2 = +2.96%

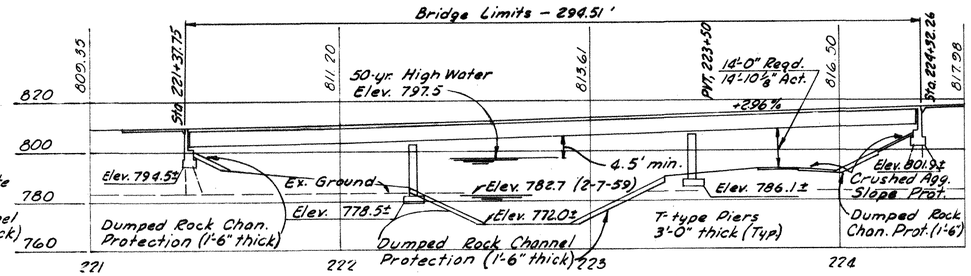
HIGH WATER DATA

Existing @ Byesville
Drainage Area - 287 sq. mi.
Official Plan Flood, Modified - 801.2
Effective Waterway below 801.2 - 2690 sq. ft.

Proposed
Drainage Area - 311 sq. mi.
50-yr Q - 12,000 cfs.
Effective Waterway below 797.5 - 3000 sq. ft.



PROFILE along ℄ RAMP "A"



PROFILE along ℄ W.B. U.S. 40

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

SITE PLAN
RAMP "A" over Wills Creek
31+88.44 to 34+97.26
BRIDGE Nº GUE 40-0943 (WB)
WB US 40 over Wills Creek
221+37.75 to 224+32.26
GUERNSEY COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
fwd	fwd		TLU	TLU	7/1/62	

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

215
250

GUERNSEY COUNTY
GUE-40-8.93
PART I

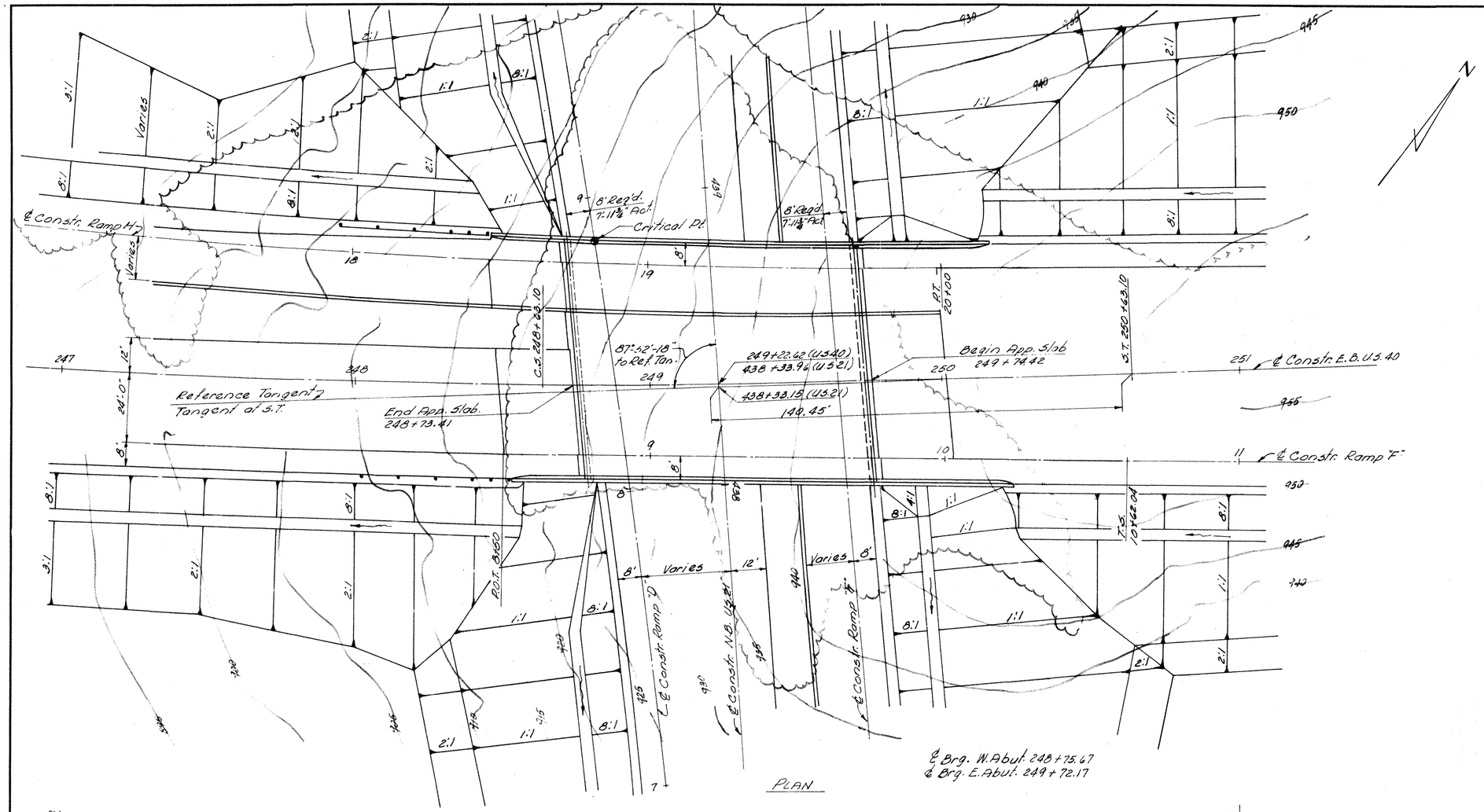
CURVE DATA

	E.B. U.S. 40	Ramp D	Ramp F	Ramp H
P.I	239+85.00	7+77.63	13+38.30	18+50.14
Δ	40°-58'-22"	6°-49'-15"	46°-00'-00"	6°-00'-00"
D_c	2°-00'	1°-30'	23°-00'	2°-00'
L_s	200'		400'	—

	N.B. U521
P.V.I	434+00
V.C.	2150'
Elev.	875.22
Corr.	11.93
P.G.	863.29

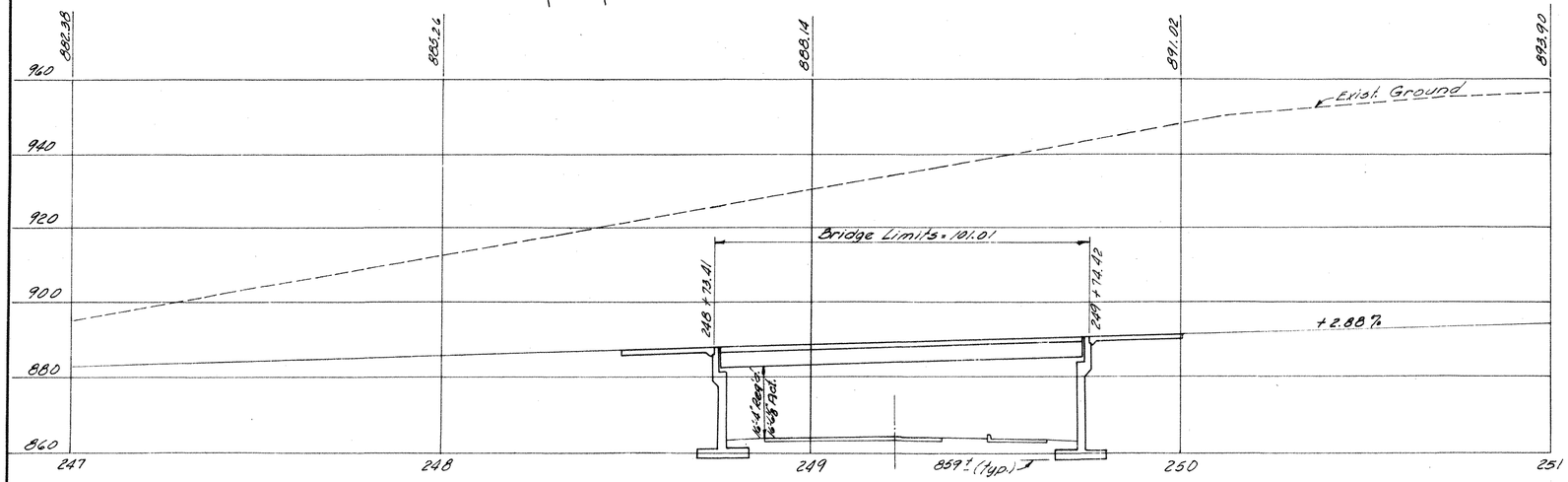
PROPOSED STRUCTURE

TYPE - Welded girder with composite concrete deck and concrete substructure.
SPAN - 96'-6" along ℄ E.B. U.S. 40
ROADWAY - Variable ft. concrete parapet with aluminum railing and 1:2" curbs.
LOADING - CF-2000 (57) adequate for AASHO alternate loading.
WEARING SURFACE: 1" monolithic concrete.
SKEW - 3°-19'-19" R.F. with respect to reference tangent.
ALIGNMENT - 2°-00' curve and spiral
APPROACH SLABS - 25' long, see sheet
SUPERELEVATION - Varies, .064 at 248+00, .056 at 250+50



PLAN

℄ Brg. W. Abut. 248+75.67
℄ Brg. E. Abut. 249+72.17



PROFILE ON ℄ E.B. U.S. 40

FOR GRADING INFORMATION ONLY
STRUCTURE IS NOT A PART OF THIS PLAN

GRADING INFORMATION ON
STRUCTURE IS NOT A
PART OF THIS PLAN

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

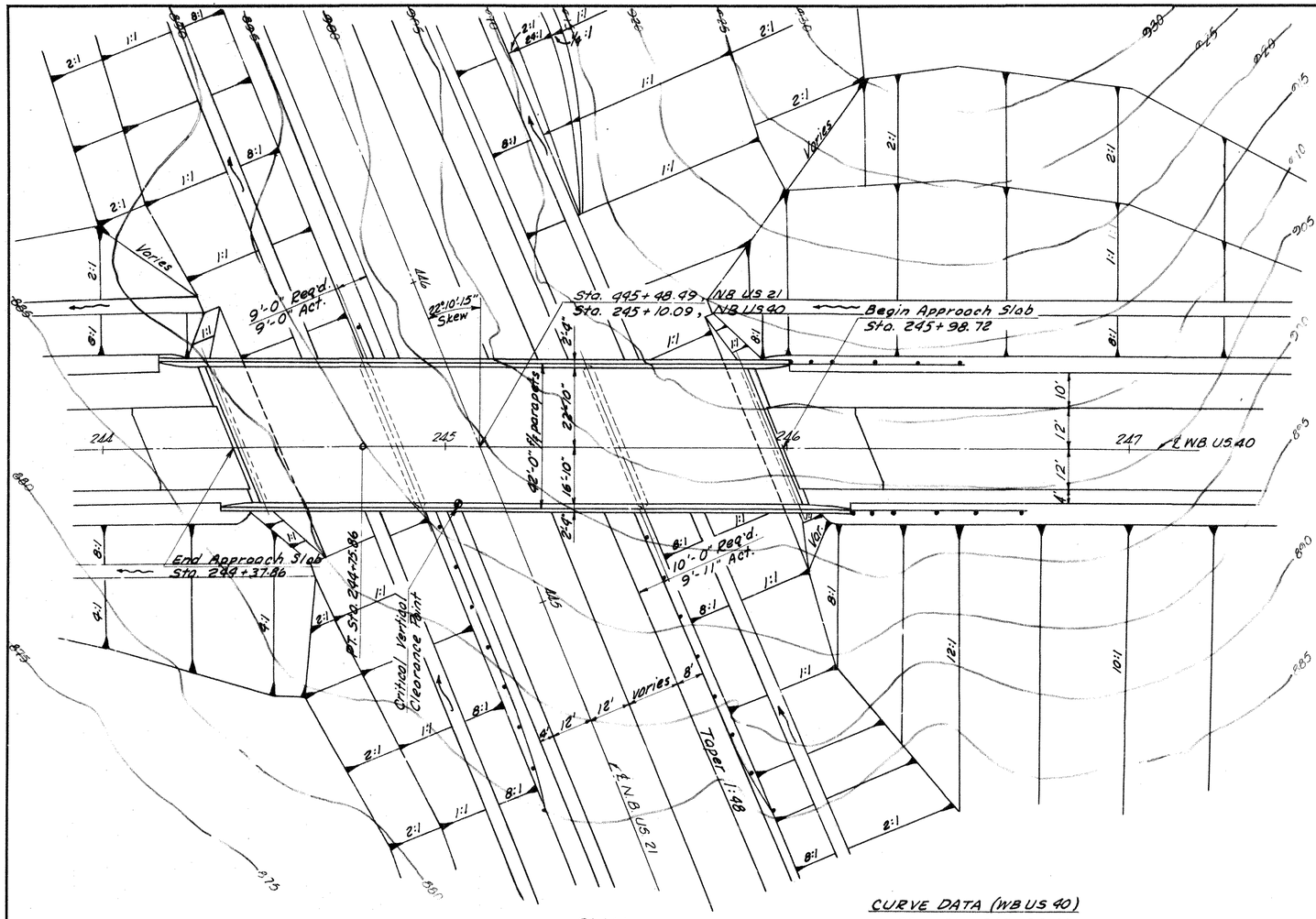
SITE PLAN
BRIDGE NO. GUE-40-0994 (E.B.)
E.B. U.S. 40 OVER N.B. U.S. 21
STA. 248+73.41
GUERNSEY COUNTY STA. 249+74.42

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
TLV	TLV		fwd	TLV		

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

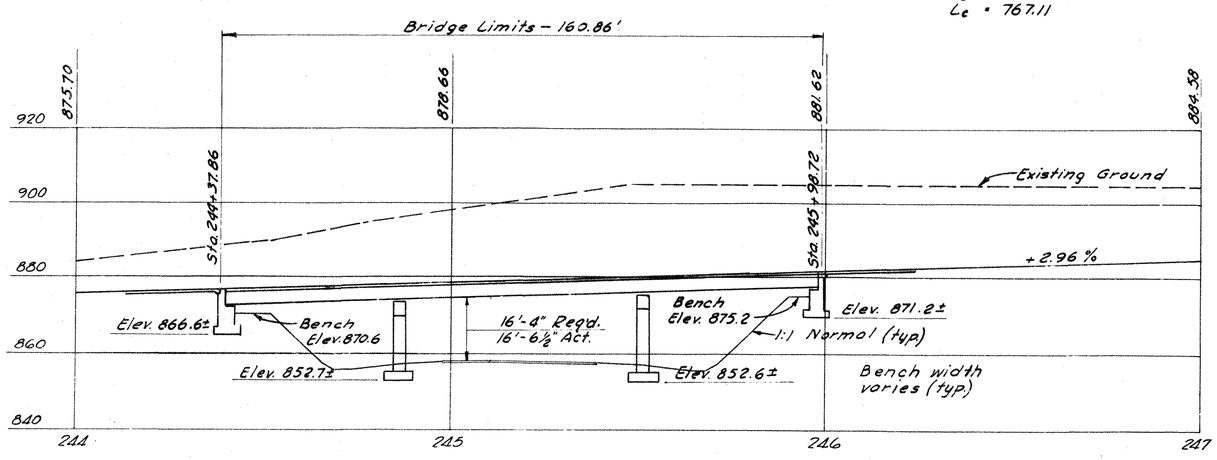
216
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1



PLAN

CURVE DATA (WB US 40)
PI - Sta. 240+92.88
Δ - 7°-40'-16"
Dc - 1°-00" Rt.
Lc = 767.11



PROFILE along ℄ W.B. U.S. 40

PROPOSED STRUCTURE

TYPE: Continuous steel beam with reinforced concrete deck and substructure.
SPANS: 45'-6", 65'-0", 45'-6" ℄ brgs. along ton..
ROADWAY: 42'-0" f/f concrete parapets with aluminum railings and 1'-2" curbs.
LOADING: CF 2000 (1957) Adequate for AASHO alternate loading.
WEARING SURFACE: 1" monolithic concrete.
SKEW: 22°-10'-15" Rt. Fwd.
ALIGNMENT: Tangent.
APPROACH SLABS: AS-1-54, 25'-0" long.
SUPERELEVATION: ⅜" per ft.

FOR GRADING INFORMATION ONLY
STRUCTURE IS NOT A PART OF THIS PLAN

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

SITE PLAN

BRIDGE Nº GUE 40-0987 (WB)
W.B. U.S. 40 over N.B. U.S. 21

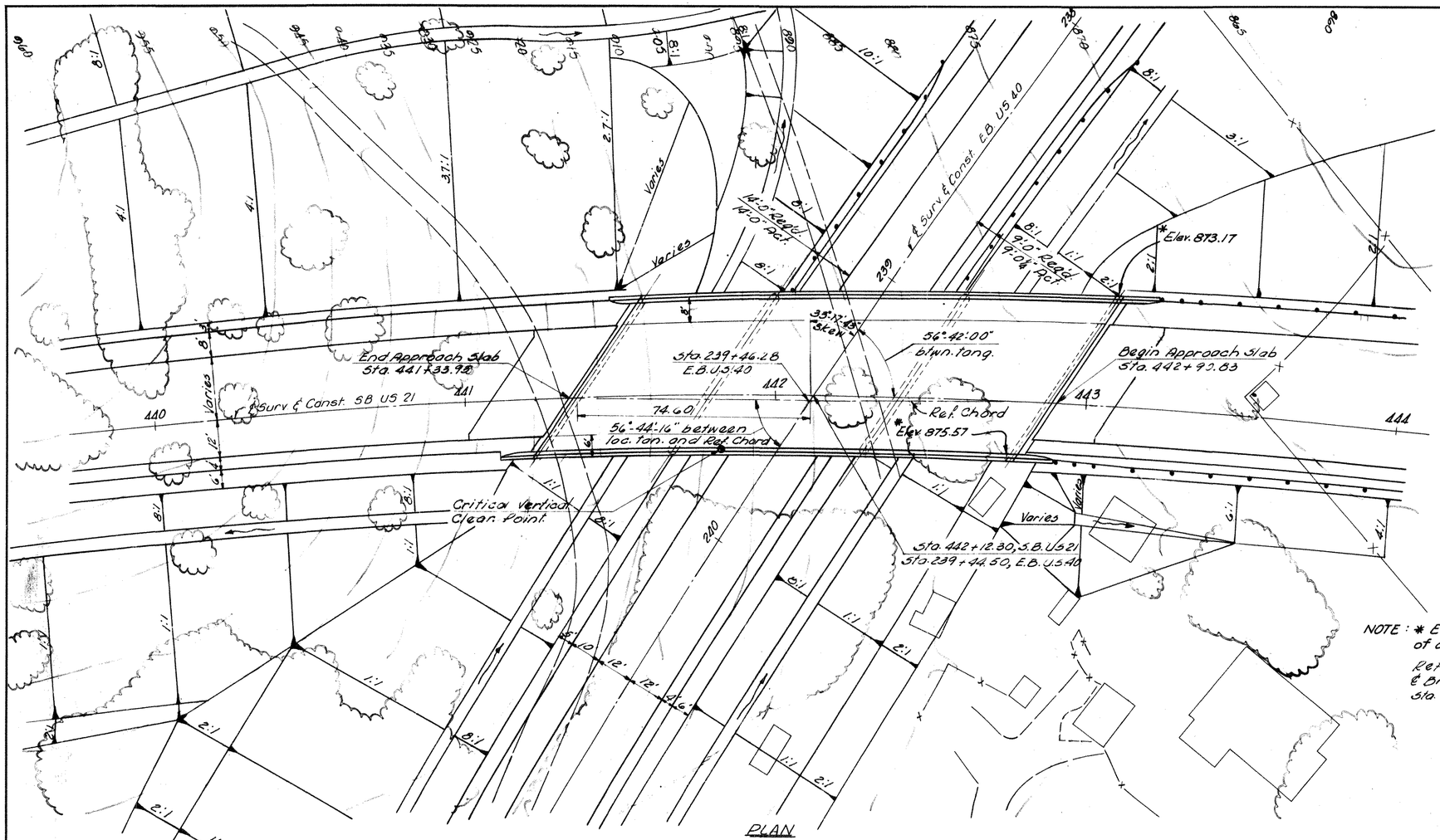
GUERNSEY COUNTY 244+37.86
245+98.72

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
fwd	fwd		GETTIN	TLU		

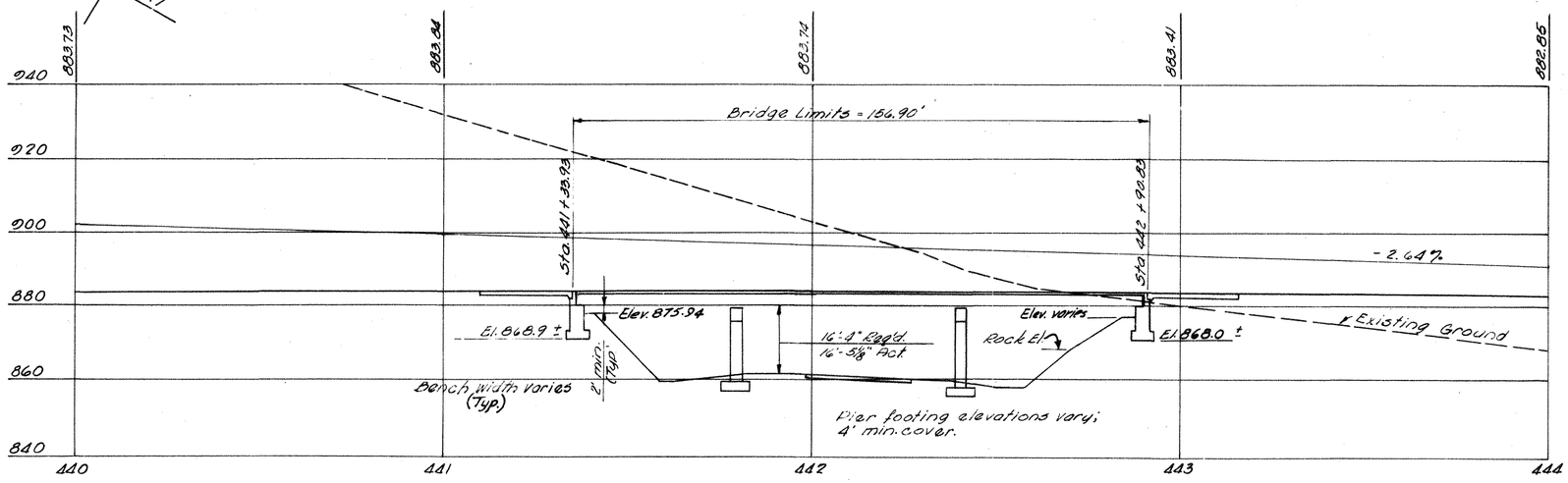
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

217
250

GUERNSEY COUNTY
GUE - 40 - 8.93
PART 1



PLAN



PROFILE along ℄ S.B. U.S. 21

PROPOSED STRUCTURE

TYPE: Continuous steel beam with reinforced concrete deck and substructure.
SPANS: 42'-6", 60'-6", 48'-6" ℄ bearing along ℄
ROADWAY: Variable f/f concrete parapets with aluminum railings and 1:2" curbs.
LOADING: CF2000 (1957) Adequate for AASHO alternate loading.
WEARING SURFACE: 1" monolithic concrete
SKEW: 33°-17'-43" Left Forward with respect to reference chord.
ALIGNMENT: 3°-00' Curve Right.
APPROACH SLABS: AS-1-54, 25' long
SUPERELEVATION: 0.083 ft. per ft.

NOTE: * Elevation is of intersection of face of abutment and top of slope.
Reference Chord is a line between ℄ Brgs. at Abutments. Sta. 441+36.70 to Sta. 442+88.20

FOR GRADING INFORMATION ONLY
STRUCTURE IS NOT A PART OF THIS PLAN

CURVE DATA

E.B. U.S. 40	S.B. U.S. 21	
PI = Sta. 239+85.00	PI = Sta 432+29.07	P.V.I = Sta. 438+50.00
Δ = 40°-58'-22"	Δ = 77°-39'-23"	V.C. = 2875'
D_c = 2°-00'	D_c = 3°-00'	Elev. = 906.14
L_c = 1848.64	L_c = 2288.55	Corr. = 23.00'
L_s = 200'	L_s = 300'	P.G. = 883.14

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

SITE PLAN

BRIDGE Nº GUE 21 - 0872 (SB)
S.B. U.S. 21 over E.B. U.S. 40

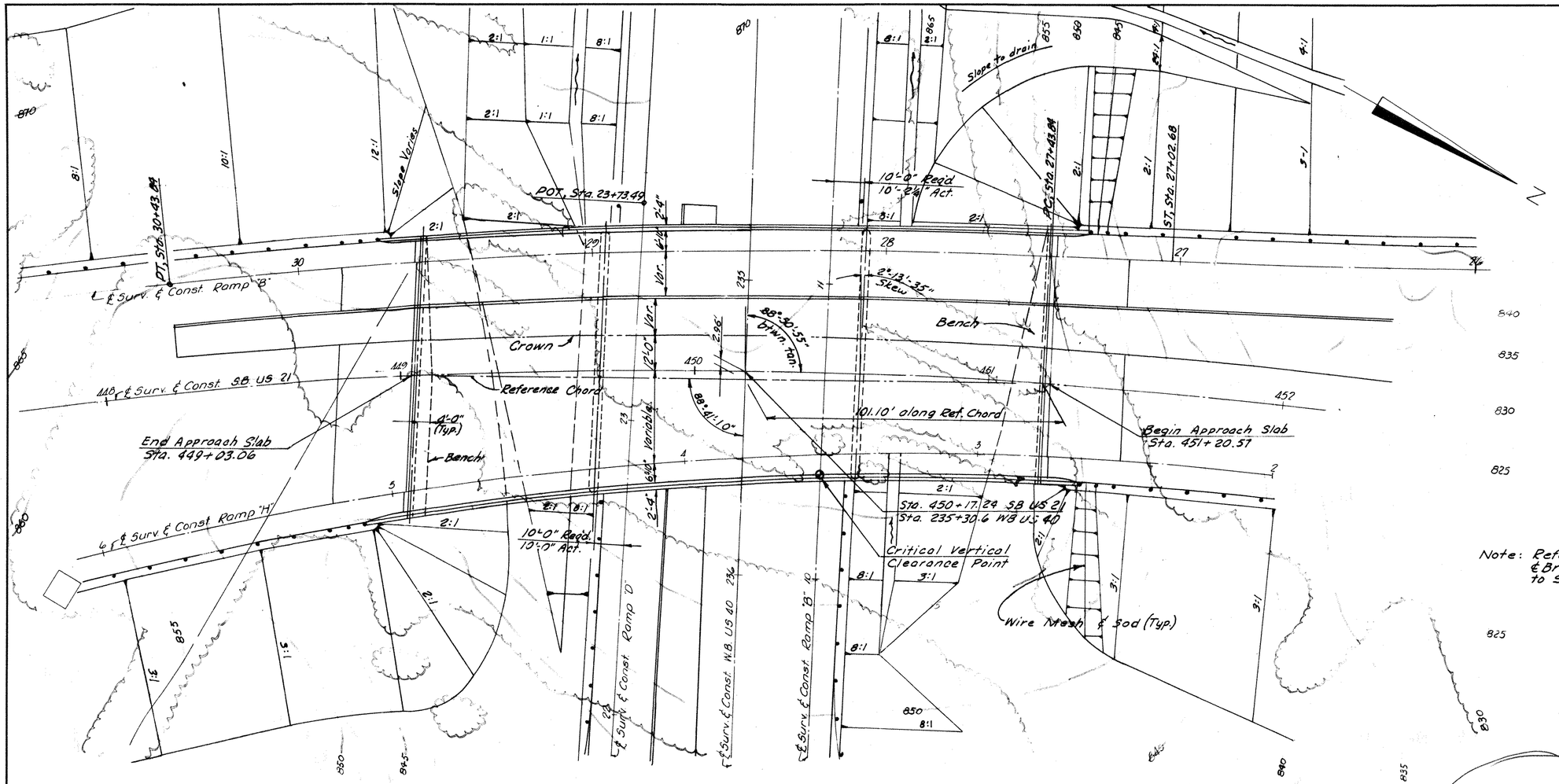
GUERNSEY COUNTY 441+33.93
442+92.83

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
fwd	fwd		GE TTIN	TLO	7/1/62	

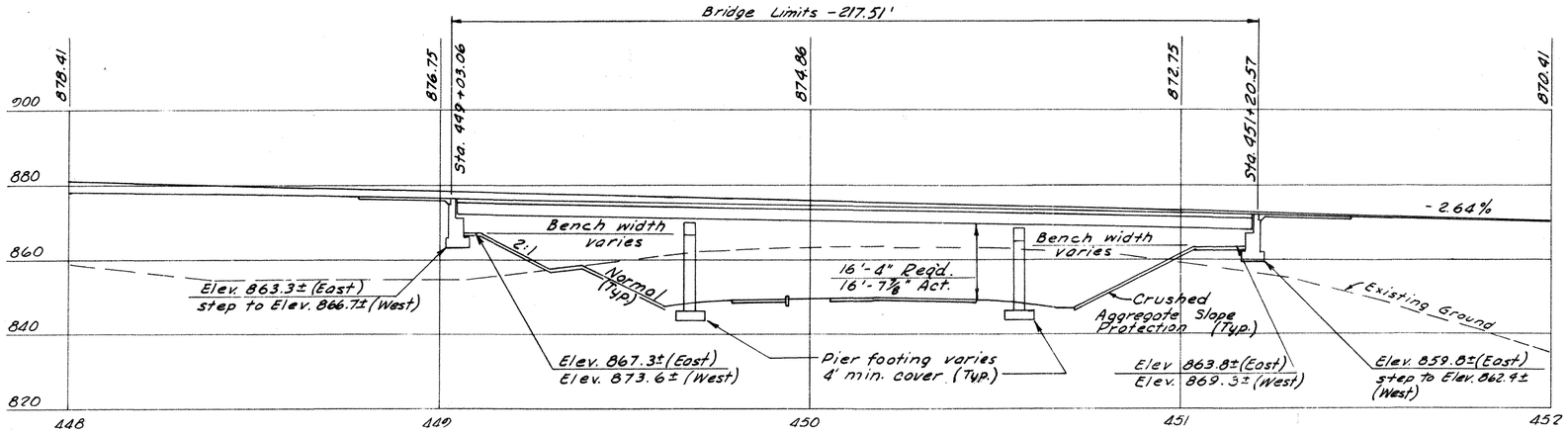
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

218
250

GUERNSEY COUNTY
GUE-40-8.93
PART I



PLAN



PROFILE along ℄ S.B. U.S. 21

PROPOSED STRUCTURE

TYPE: Continuous steel beam with reinforced concrete deck and substructure.
SPANS: 62'-0", 89'-0", 62'-0" c/c bearings along ℄
ROADWAY: Variable t/f concrete parapets with aluminum railings and 1'-2" curbs
LOADING: CF 2000 (1957) Adequate for AASHO alternate loading.
WEARING SURFACE: 1" monolithic concrete.
SKEW: 2°-13'-35" Left Forward with respect to reference chord.
ALIGNMENT: 3°00' Curve Right
APPROACH SLABS: AS-1-54, 25'-0" long.
SUPERELEVATION: 0.05 ft/ft. and 0.083 ft/ft.

Note: Reference Chord is a line between ℄ Brgs. of Abutments. Sta. 449+05.32 to Sta. 451+18.32.

FOR GRADING INFORMATION ONLY
STRUCTURE IS NOT A PART OF THIS PLAN

CURVE DATA

SB US 21
PI - Sta. 452+29.07
Δ = 77°-39'-23"
D_c = 3°-00'
L_c = 2288.55'
L_s = 300'

RAMP "B"
PI = Sta. 28+94.15
Δ = 9°-00'-00"
D_c = 3°-00'
L_c = 300'

RAMP "H"
PI - 4+06.17
Δ = 20°-27'-27"
D_c = 5°-00'
L_c = 409.15'

SB US 21
PVI - Sta. 438+50.00
V.C. = 2875'
Elev. = 906.14
Corr. = 23.00'
Prof. Grade = 883.14

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

SITE PLAN

BRIDGE Nº GUE-21-0886 (SB)
S.B. U.S. 21 over W.B. U.S. 40

GUERNSEY COUNTY

449+03.06
451+20.57

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
fwa	fwa	DWH	GETTIN	TLU	7/16/62	

SUMMARY OF ADDITIONAL R/W REQUIRED

I-70-7(17) 180

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

219
250

GUERNSEY COUNTY
GUE-60-8.93
PART 1

R/W 1

PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED RECORD AREA	TO BE ACQUIRED LAND	TO BE ACQUIRED BLDGS	RESIDUE LEFT	RESIDUE RIGHT	SHEET NO.	REMARKS
1-Aerial	Pennsylvania, Ohio & Detroit Railroad									
	Pennsylvania Company (Operator)				0.310	No			8,9,32	
1	Pennsylvania, Ohio & Detroit Railroad				0.001	No			8,9,32	
1-A	Pennsylvania, Ohio & Detroit Railroad				0.003	No			8,9,32	
1-SL	Pennsylvania, Ohio & Detroit Railroad				0.131	No			8,9,32	
1A-SL	Pennsylvania, Ohio & Detroit Railroad				0.293	No			8,9,32	
2-LA	Bertha May Fogle, Et Al	131 228	337 260	80.00	5.30	No	32.80		8,9,32	See Parcel 7-LA
2	Bertha May Fogle, Et Al				1.14	No			22	
2-X	Bertha May Fogle, Et Al				2.62	No			22	
2-WA	Bertha May Fogle, Et Al					No			9,22	
2A-WA	Bertha May Fogle, Et Al					No			8,32	
3-LA	Floyd Fillman Jr. & Romaine Fillman	221	295	123.00	5.53	No	117.41		8,9,32	
3-X	Floyd Fillman Jr. & Romaine Fillman				0.21	No			22	
3-Y	Floyd Fillman Jr. & Romaine Fillman				1.70	No			19,20	
3-WA	Floyd Fillman Jr. & Romaine Fillman					No			8,32	
4-X	Ernest E. Gay & Mabel Noble Gay	200	83	41.78	0.60	No			8,9,32	
5-LA	Matt Slifko & Susie Slifko	191 221	233 105	117.14	18.32	No	(L)5.40	91.34	9,10,11	See Parcel 6
5	Matt Slifko & Susie Slifko				2.08	No			10,11	
5-X	Matt Slifko & Susie Slifko				8.74	No			9,10,11	
5-Y	Matt Slifko & Susie Slifko				0.43	No			22	
5-WA	Matt Slifko & Susie Slifko					No			10	
5A-WA	Matt Slifko & Susie Slifko					No			9,22	
6	Matt Slifko, Susie Slifko & Earl T. Slifko	238	500	35.74	1.75	No	24.32	9.67	26	A Seperate Prop.
6-X	Matt Slifko, Susie Slifko & Earl T. Slifko				0.02	No			26	
6-WA	Matt Slifko, Susie Slifko & Earl T. Slifko					No			26	
6A-WA	Matt Slifko, Susie Slifko & Earl T. Slifko					No			26	
7-LA	Bertha May Fogle, Et Al	131 228	337 260		41.16	Yes			9,11,12 18,22,24	A Seperate Prop.
7-WA	Bertha May Fogle, Et Al					No			9,22	
8-LA										Not Used
9-LA	Hillis Albright & Milton W. Albright	206 245	83 156	62.97	0.26	No	5.56	19.39	10,11,20	See Parcel 11-LA
9	Hillis Albright & Milton W. Albright				1.24	No			10,11,20	
9-X	Hillis Albright & Milton W. Albright				0.33	No			10	
9-WA	Hillis Albright & Milton W. Albright					No			10,24	
10-LA	Ira A. Thompson, Et Al	239	147	1.00	1.00	Yes			18,24	
11-LA	Hillis Albright & Milton W. Albright	206 245	83 156		14.36	Yes			18,19,22	A Seperate Prop.
11	Hillis Albright & Milton W. Albright				0.76	No			19,22	
11-X	Hillis Albright & Milton W. Albright				0.38	No			19	
11-Y	Hillis Albright & Milton W. Albright				0.38	No			22	
11-WA	Hillis Albright & Milton W. Albright					No			19	
13-LA	Kenneth A. Gadd	216	369	20.17	7.41	Yes		3.78	16,17,20	
13A-LA	Kenneth A. Gadd				2.80	No			16,17,20	
13B-LA	Kenneth A. Gadd				0.01	No			11,20	
13-X	Kenneth A. Gadd				0.11	No			20	
14-LA	Donald A. Kranz, Et Al	229	376	2.16	0.44	No		1.72	16,17,20	
15-LA	E. Joseph Dyer & M. Irene Dyer	213	535	8.84	0.35	No		8.49	16,17	
28-LA	John Diss & Dorothy Diss	219	586	1.00	0.84	Yes			17	
25-LA	Paul Morrison & Dorothy Morrison	133	590	1.00	0.62	Yes			18	
26-LA	David Joseph McMonoway & Bertha A. McMonoway	193	456	20.50	17.92	Yes			12,13,17 18,23	
27-LA	Tom Howard	234 261	275 187	105.80	31.61	No	(L)58.83	(L)7.08	13,14,15 18,19,23	(Landlocked with
27-X	Tom Howard				0.09	No			15	GUE-21-5.90)
								(Has access but	over City property not by deed)	

PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED RECORD AREA	TO BE ACQUIRED LAND	TO BE ACQUIRED BLDGS	RESIDUE LEFT	RESIDUE RIGHT	SHEET NO.	REMARKS
29-LA	The City of Cambridge	1/2 1/2	223 82	9.27	1.51	Yes			19,20	
30-LA	William A. Larrick & Margaret K. Larrick	226	87	164.72	0.87	No	163.79		20	
30	William A. Larrick & Margaret K. Larrick				0.46	No			20	
30-X	William A. Larrick & Margaret K. Larrick				1.10	No			20	
30-Y	William A. Larrick & Margaret K. Larrick				2.05	No			20	
30-T	William A. Larrick & Margaret K. Larrick				1.50	No			20	
31-LA	Mary E. Wilson	207	913	39.82	0.31	No	31.00		20,21	
31	Mary E. Wilson				1.61	Yes			20,21	
31-A	Mary E. Wilson				0.34	No			21	
31-X	Mary E. Wilson				0.77	No			20	
35-LA	Joseph McMonaway	160	399		0.18	No			20	
36-LA	James McMonaway	151 152	661 298		0.40	No			20	

PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED RECORD AREA	TO BE ACQUIRED LAND	TO BE ACQUIRED BLDGS	RESIDUE LEFT	RESIDUE RIGHT	SHEET NO.	REMARKS

REV.	DATE	DESCRIPTION	BY

PROPERTY PLAN

Guernsey County, Cambridge Twp.
M.L. N^os. 23, 24, 25, 26, 39, 40 & 4TH 1/4 T.1 & T.2, R.3, U.S.M.L.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

220
250

GUERNSEY COUNTY
GUE-40-8.93

R/W 2

T.2 N.
T.1 N.

M.L. 40
M.L. 25

BEGIN PROJECT 8-NORW
795+00.00

12-F-1 CBW

Floyd Fillman, Jr. & Romaine Fillman

Hillis Albright & Milton W. Albright

WILLS CREEK

Bertha May Fogle, ETAL

The Guernsey Engineering & Supply Company, Ltd.

M.L. 25
M.L. 24

RAMP A

T.2 N.
T.1 N.

Sarah E. Vance

1-S-F.R.

RAMP B

Drift Coal Mine (Abandoned)

S.B. U.S. 21

W.B. US-40

Existing Channel To Be Filled

LAGEW

WILLS CREEK

E.B. US-40

12.635 BELOC.

RAMP D

M.L. 40
M.L. 39

M.L. 25
M.L. 26

Ex. Drainage Easement

Ernest E. Gay & Mabel Noble Gay

Bertha May Fogle ET AL

Drift Coal Mine (Abandoned)

Ira A. Thompson, ET AL

285 E.B. US-40

RAMP C

CHAPMAN RUN CHANNEL RELOC.

M.L. 25
M.L. 26

Matt Slifko & Susie Slifko

Kenneth A. Gadd

WILLS CREEK CHANNEL RELOC. No. 1

Donald A. Krane, ET AL

E. Joseph Dyer & M. Irene Dyer

Richard F. Walters & Marjorie A. Walters

Chapman Run

Pennsylvania, Ohio and Detroit R.R. (Pennsylvania Company) (Operator)

Hillis Albright & Milton W. Albright

29+00 ℄

SCALE: 1" = 200'

— BUILDING LEGEND —

B = Barn
F = Frame
G = Garage
1-S.F.R. = 1 Story Frame Residence
S. = Shed
M = Metal
C.B. = Concrete Block
M.G. = Metal Garage
F.G. = Frame Garage
T.G. = Tile Garage
B.B. = Block Barn
F.B.B. = Frame & Block Barn
C.M.B. = Corrugated Metal Barn
T.S. = Tile Shed
T-F.B. = Tile & Frame Barn
C.B.-F.R. = Concrete Block & Frame Residence
C.B.B. = Concrete Block Basement
C.B.G. = Concrete Block Garage

REV	DATE	DESCRIPTION	BY

PROPERTY PLAN

PROPERTY PLAN

Guernsey County, Cambridge Twp.
M.L. Nos. 8, 9, 10, 23, 24, 25, 26 & 4TH 1/4 T.1 & T.2, R.3, U.S.M.L.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

221/250

GUERNSEY COUNTY
GUE-40-8.93

R/W 3

~ BUILDING LEGEND ~
B = Barn
F = Frame
G = Garage
1.S.FR. = 1 Story Frame Residence
S. = Shed
M = Metal
C.B. = Concrete Block
M.B. = Metal Garage
F.G. = Frame Garage
T.G. = Tile Garage
B.B. = Block Barn
F.B.B. = Frame & Block Barn
C.M.B. = Corrugated Metal Barn
T.S. = Tile Shed
T.F.B. = Tile & Frame Barn
C.B.-F.R. = Concrete Block & Frame Residence
C.B.B. = Concrete Block Basement
C.B.G. = Concrete Block Garage

Floyd Fillman Jr. & Romaine Fillman
WILLS CREEK
Ex. 24" Water Line
Ex. Pump House City of Cambridge
Hillis Albright & Milton W. Albright
T.2435 DELETED
T.EN. T.IN.
M.L. 25 M.L. 24 M.L. 24
RAMP "A"
RAMP "B"
Sarah E. (Vance)
Drift Coal Mine (Abandoned)
W.B. U.S. 40
Ex. 20" Gravity Cleanout
Ex. 16" Water Line
City of Cambridge Reservoir
16" Outfall
Ex. Twp. Rd. 235
City of Cambridge
Tom Howard
LAERW
RAMP "C"
RAMP "D"
N.B. U.S. 21
David Joseph Mc Manaway
Bertha O. Mc Manaway
M.L. 9
M.L. 10
Coal Mine (Active) Paul Morrison & Dorothy Morrison
RAMP "E"
RAMP "F"
RAMP "G"
RAMP "H"
S.B. U.S. 21
E.B. U.S. 40
Ira A. Thompson ET AL
Herbert L. Morgan & Violet Morgan
John Diss & Dorothy Diss
Edward D. Perkins
Bertha May Fogle, ET AL
Drift Coal Mine (Abandoned)
Matt Slifko & Susie Slifko
Donald A. Kranz, ET AL
Kenneth A. Gadd
E. Joseph Dyer & M. Irene Dyer
Richard F. Walters & Marjorie A. Walters
Ernest E. Todd & Bernice D. Todd
Hillis Albright & Milton W. Albright
John E. Tucker & Elva L. Tucker
Matt Slifko ET AL
Overlap
Dewey D. Valentine & Glenna Ruth Valentine
Raymond Valentine & Vera Valentine
Charles E. Stevens & Betty L. Stevens
Harry Irvin Graham & Doris Leota Graham
George Elmer Knight & Ruth Ann Knight
Richard & Thelma Diss
Agnes Glass
Hazel I. Billett
John Davis & Mildred E. Davis
Geneva Wallace
Ex. Co. Rd. 327
Ex. Co. Rd. 2
Ex. Twp. Rd. 235
Ex. U.S. 21
Ex. Co. Rd. 2
Ex. Twp. Rd. 235
Ex. Twp. Rd. 235
Ex. Twp. Rd. 235

PROPERTY PLAN

Guernsey County, Jackson & Cambridge Twp's.
M.L. Nº's. 5, 6, 7, 8, 9, 10, 11, 12, 22, 23 & 24, T.1, R.3, U.S.M.L.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

222
250

GUERNSEY COUNTY
GUE-40-8.93

R/W 4

~BUILDING LEGEND~

B. = Barn
F. = Frame
G. = Garage
1-S.F.R. = 1 Story Frame Residence
S. = Shed
M. = Metal
C.B. = Concrete Block
M.G. = Metal Garage
F.G. = Frame Garage
T.G. = Tile Garage
B.B. = Block Barn
F.B.B. = Frame & Block Barn
C.M.B. = Corrugated Metal Barn
T.S. = Tile Shed
T-F.B. = Tile & Frame Barn
C.B.-F.R. = Concrete Block & Frame Residence
C.B.B. = Concrete Block Basement
C.B.G. = Concrete Block Garage

WILLS CREEK

Edna M. Valentine

Betty J. Gheen

Byesville Sewage Treatment Plant

(Abandoned) Strip Mine

Elva L. Tucker ET AL

David Eugene Campbell & Donna C. Campbell

Curtis Brown & Delores M. Brown

Forest Wayne Valentine & Shirley Valentine

Beryl White & Marie White

Alan T. Rogers & Patty A. Rogers

Donald J. Sigman & Virginia U. Sigman

John E. Tucker & Elva L. Tucker

Guernsey County Cemetery

Geneva Wallace

Hazel I. Billett

Hillis Albright & Milton W. Albright

Matt Slifko, ET AL

Ernest E. Todd & Bernice D. Todd

Richard F. Walters & Marjorie A. Walters

E. Joseph Dyer & M. Irene Dyer

Donald A. Kroll, ET AL

Kenneth A. Goode

Raymond Valentine & Vera Valentine

Herbert L. Morgan & Violet Morgan, Dewey E. Valentine & Blenna Ruth Valentine

Charles E. Stevens & Betty L. Stevens

Harry Irvin Graham & Doris Leota Graham

George Elmer Knight & Ruth Ann Knight

Richard Diss & Thelma Diss

Agnes Glass, ET AL

Ex. U.S. 21

N.B. U.S. 21

S.B. U.S. 21

Ex. Co. Rd. 4

Ramp E

Ramp G

SCALE: 1" = 200'

REV.	DATE	DESCRIPTION	BY

PROPERTY PLAN

PROPERTY PLAN

Guernsey County ~ Cambridge Twp.
M.L. N^os. 9, 24, 25 & 4^TH 1/4, T.1 & T.2, R.3, U.S.M.L.

FED. RD. DIVISION	STATE	PROJECT		223
2	OHIO			250

GUERNSEY COUNTY
GUE ~ 0.00 ~ 8.93

R/W 5

~ BUILDING LEGEND ~

B. = Barn
F. = Frame
G. = Garage
1-S.F.R. = 1 Story Frame Residence
S. = Shed
M. = Metal
C.B. = Concrete Block
M.G. = Metal Garage
F.G. = Frame Garage
T.G. = Tile Garage
B.B. = Block Barn
F.B.B. = Frame & Block Barn
C.M.B. = Corrugated Metal Barn
T.G. = Tile Shed
T-F.B. = Tile & Frame Barn
C.B.-F.R. = Concrete Block & Frame Residence
C.B.B. = Concrete Block Basement
C.B.G. = Concrete Block Garage

N

T.1 N.
T.2 N.

Floyd Fillman, Jr. & Romaine Fillman
Matt Slifko
Susie Slifko
James Mc Manaway
William A Larrick & Margaret E Larrick
Mary E. Wilson
George Mc Manaway
Hillis Albright
Milton W. Albright
Sarah E. Hance
Joseph Mc Manaway
Dollie M. Stanton
Nora B. Roy Wilkins
Anna Vera Harmon
William B. Allshouse
Mike Orahoske
Andrew Orahoske
John Orahoske
Anna Orahoske
Joseph P. Orahoske
Helen Orahoske
John Howard McFarland & Shirley J. McFarland
Robert Orahoske & Shirley Orahoske
John Potter
Anna M. Orahoske
Charles F. Mc Manaway
Myrtle Mc Manaway
Mary Latchic & Elizabeth M. Latchic
Tom Howard
Paul Morrison & Dorthy Morrison
Martha May Fogle, Et Al
David Joseph Mc Manaway & Bertha O. Mc Manaway

WILLS CREEK
WILLS CREEK RELOC. N^o 1
WILLS CREEK CHANNEL RELOC. N^o 2
T.R. 435 RELOC.
Ex. Ramp to 435
RAMP "A"
RAMP "B"
RAMP "C"
RAMP "D"
Drift Coal Mine (Abandoned)
Coal Mine (Active)
Ex. Pump House
Ex. Cambridge Water Supply Dam
Prop. Dam Part 1
Prop. Pump House
Ex. 24" Water Line to Plant
Ex. 16" Water Line
Ex. 24" Water Line to Plant
City of Cambridge
Reservoir Drive
T.R. 322 EXTN.
47TH 00 END PROJECT PART 2
477-00 S.A. U.S. 21
END WORK
Ex. T.R. 322
CAMBRIDGE RESERVOIR
Ex. U.S. 21
S.B. U.S. 21
N.B. U.S. 21
E.B. U.S. 40
W.B. U.S. 40
M.L. 24
M.L. 25
M.L. 9
M.L. 22
Ex. R/W
Ex. R/W ?
LA-Ex. R/W
LA
L.A.P.
L.A.E.W.
E.L.P.
1-S.F.R.
1-S.F.B.
1-S.F.G.
1-S.F.Ga.
1-S.F.C.B.
1-S.F.C.B.Ga.
1-S.F.C.B.B.
1-S.F.C.B.G.
1-S.F.T.G.
1-S.F.M.G.
1-S.F.F.G.
1-S.F.T-F.B.
1-S.F.C.B.-F.R.
1-S.F.F.B.B.
1-S.F.C.M.B.
1-S.F.T.G.
1-S.F.B.B.
1-S.F.S.
1-S.F.Ga.
1-S.F.
1-S.F.B.
1-S.F.C.B.
1-S.F.C.B.B.
1-S.F.C.B.G.
1-S.F.T.G.
1-S.F.M.G.
1-S.F.F.G.
1-S.F.T-F.B.
1-S.F.C.B.-F.R.
1-S.F.F.B.B.
1-S.F.C.M.B.
1-S.F.T.G.
1-S.F.B.B.
1-S.F.S.
1-S.F.Ga.

SCALE: 1" = 200'

REV	DATE	DESCRIPTION	BY

PROPERTY PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

224
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

R/W 6

MATCH LINE "A"

TWP. RD. 435 RELOCATION

WILLS CREEK CHANNEL RELOCATION #1

RAMP "A"

RAMP "B"

RAMP "C"

RAMP "D"

RAMP "E"

RAMP "F"

RAMP "G"

W.B. U.S. 40

E.B. U.S. 40

S.B. U.S. 21

N.B. U.S. 21

R/W 6

First Sheet R/W 7

R/W 7

R/W 8

R/W 9

R/W 10

R/W 11

R/W 12

R/W 13

R/W 14

R/W 15

R/W 16

R/W 17

R/W 18

R/W 19

R/W 22

R/W 23

R/W 24

R/W 26
Co. Rd. 321 Extn.

Next Sheet R/W 21

WILLS CREEK CHANNEL RELOCATION #2

R/W 20

Next Sheet R/W 25

This Sheet Not Included

MATCH LINE "A"
R/W 19

R/W SHEET-KEY PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

825
850

R/W 7

GUERNSEY COUNTY
GUE-40-893
LIMITED ACCESS
PART I

Guernsey Co., Cambridge Twp.
U.S.M.L. Nos. 25 & 40, T. 1, R. 3, U.S.M.L.

M.L. 25
M.L. 40

THE GUERNSEY ENGINEERING AND SUPPLY COMPANY, LTD.
D.B. 224, P. 435
4-13-53

ERNEST E. GAY
MABEL NOBLE GAY
D.B. 200, P. 83 3-23-46

N

L.A.-Ex. R/W

189+50
270' Lt.

193+79.70
270' Lt.

BEGIN PROJECT & WORK
STA. 195+00.00

E 783.69 (Ex.)

45 LA

Const. Limits

6.60 CMP

Begin Taper
197.00

197.00 See Sheet No. R/W 8

Ex. NORTHEAST RAMP

Ex. W.B. U.S. 40

185 186 187 188 189 190 191 192 193 194 195 196 197

S 72° 02' 05" E

℄ Survey & Construction

S 72° 02' 05" E

Ex. E.B. U.S. 40

Ex. SOUTHWEST RAMP

Ex. 15"

40 LA

194+60.06

Const. Limits

N. 781.90 (Ex.)

Ex. 10' Channel

L.A.-Ex. R/W

186+30
285' Rt.

195+48.90
285' Rt.

ERNEST E. GAY
MABEL NOBLE GAY
D.B. 200, P. 83 3-23-46

THE GUERNSEY ENGINEERING AND SUPPLY COMPANY, LTD.
D.B. 224, P. 435
4-13-53

M.L. 25
M.L. 40

(40 LA) Acquired with GUE-40-8.36 Project

(45 LA) Acquired with GUE-40-8.86 Project

REV.	DATE	DESCRIPTION	BY

195+00 to 197+00 U.S. 40 R/W

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

922
250

GUERNSEY COUNTY
GUE-40-8.93
LIMITED ACCESS
PART 1

R/W 8

Guernsey Co. Cambridge Twp.
U.S.M.L. N^os. 25 & 26, T.1, R.3, U.S.M.L.

CL R.R. CURVE DATA
Δ = 52°05'
D = 6°15' Lt.
R = 1368.05'
L = 1245.49'

MAIN & U.S. 40
PROPOSED CURVE DATA
P.I. = 211+11.58
Δ = 17°23'42"
D = 1°28'00"
R = 3906.53'
L = 1186.03'
T = 597.61'

N

FLOYD FILLMAN JR.
ROMAINE FILLMAN
D.B. 221, P. 295 8-8-53

197+75.00
270.00 Lt.

199+50
310' Lt.

200+33.50
310' Lt.

201+50
310' Lt.

199+50
280' Lt.

3 WA

2A WA

201+50
260' Lt.

203+00
260' Lt.

209+00
260' Lt.

L.A. Ex. R/W

L.A. & R/W

Const. Limits

198+48.86
660' Lt.

200+84
660' Lt.

L.A. & R/W Construction Limits

3 LA Cont. 5.59 Ac.±

2505

2507

2508

2509

2510

Const. Limits

Ex. R/W Fence?

L.A.-Ex. R/W

35 LA

1 SL

WILLS

1 Aerial

BERTHA MAY FOGLE, ET AL
D.B. 191, P. 437 2-26-52
D.B. 228, P. 460 9-27-55

2 LA Cont. 5.34 Ac.±

P.C. 205+13.97

CREEK

1

35°46'00"
Tang. to Curve

1A SL

202+00 ℄

197 198 199 200 201 202 203 204 205 206 207 208 209

℄ Survey ℄ Construction

S 72° 08' 05" E

Sta. 200+87.80 U.S. 40
V.S.S. 2511+21.01

1 A

2512

L.A.

2513

PENNSYLVANIA, OHIO AND DETROIT RAILROAD (PENNSYLVANIA COMPANY OPERATOR)

L.A.-Ex. R/W

P.T. 2514+09.90

2514

2515

2516

2517

NOTE:
See R/W Sheet Nos. 31 & 32
for Railroad Easements

1A SL

Const. Limits

CHAPMAN RUN

FLOYD FILLMAN, JR.
ROMAINE FILLMAN
D.B. 221, P. 295 8-8-53

3 LA Cont. 5.59 Ac.±

201+08.66
526.94' Rt.

M.L. 85
M.L. 86

L.A.-Ex. R/W

Cont. 0.60 Ac.±

6 X

2518

2519

2520

ERNEST E. GAY
MABEL NOBLE GAY
D.B. 200, P. 83 3-23-46

207+97.51
385.79' Rt.

202+15
318.50' Rt.

206+10
926.80' Rt.

206+95
980.40' Rt.

45 X

Ex. Channel Easement

206+40
885.00' Rt.

M.L. 85
M.L. 86

197+00 See Sheet No. R/W 7

209+00 See Sheet No. R/W 9

45 LA Acquired with GUE-40-8.36 Project

45 X Acquired with GUE-40-8.36 Project

REV.	DATE	DESCRIPTION	BY

197+00 to 209+00 U.S. 40 R/W

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

227
250

R/W 9

GUERNSEY COUNTY
GUE-40-8.93
LIMITED ACCESS
PART 1

Guernsey Co. Cambridge Twp.
U.S.M.L. Nos. 25 & 26, T.1, R.3, U.S.M.L.

MAIN & U.S. 40 PROPOSED CURVE DATA
P.I. = 211+11.58
Δ = 17°23'42"
D = 1°28'00"
R = 3906.53'
L = 1186.03'
T = 597.61'

W.B. U.S. 40 PROPOSED CURVE DATA
P.I. = 220+80.95
Δ = 33°00'00"
Dc = 8°30'00"
R = 2291.83'
L = 1195.00'
T = 680.95'
Ts = 802.12'
Ls = 250.00'
θs = 3°07'30"

RAMP "A" PROPOSED CURVE DATA
P.I. = 38+49.05
Δ = 7°30'00
D = 2°30'00"
R = 2291.83'
L = 300.00'
T = 150.21'

Const. Limits

N

5A WA

7 WA

2 LA Cont. 5.34 Ac.±

BERTHA MAY FOGLE, ET AL
D.B. 131, P. 437 2-26-22
D.B. 228, P. 460 9-27-55

209+00 200' Lt.

210+50 205.73' Lt.

221+50 W.B. 20.5' Lt.

221+50 W.B. 218.55 200' Lt.

CREEK

WILLS

Const. Limits

LA℄ R/W

MATT SLIFKO
SUSIE SLIFKO
D.B. 191, P. 253 6-30-44
D.B. 221, P. 105 5-3-52

P.C.C. 210+00 W.B. U.S. 40
P.C.C. 210+00 U.S. 40 E.Sd.

P.C.C. 36+98.88

7 LA Cont. 41.16 Ac.±
P.R.O. 1.82 Ac.±
Total 42.98 Ac.±

BERTHA MAY FOGLE, ET AL
D.B. 131, P. 437 2-26-22
D.B. 228, P. 460 9-27-55

95+00 See Sheet Nº R/W 12

221+50 See Sheet Nº R/W 11

RAMP "A"

CREEK

Survey & Construction W.B. U.S. 40

S 85°01'52" E

N 61°56'08" E

209+00 See Sheet Nº R/W 8

S 72°02'05" E

Survey & Construction U.S. 40

S 89°25'47" E

222+00 See Sheet Nº R/W 11

Survey & Construction E.B. U.S. 40

3 LA Cont. 5.59 Ac.±

FLOYD FILLMAN, JR
ROMAINE FILLMAN
D.B. 221, P. 295 8-8-53

5 LA Cont. 18.32 Ac.±

217+00.00 E.B. U.S. 40 Ahead
P.I. 217+00.00 U.S. 40 E
Back 56' Pt.

M.L. 25
M.L. 26

210+37.95 250.79' Rt.

213+00 690' Rt.

217+00 E.B. 160' Rt.

222+00 E.B. 160' Rt.

CHAPMAN RUN RELOCATION

4 X Cont. 0.60 Ac.±

Channel Easement

Const. Limits

ERNEST E. GAY
MABEL NOBLE GAY
D.B. 200, P. 83 3-23-46

210+65.63 395.51' Rt.

215+00 395' Rt.

216+00 320' Rt.

5 X Cont. 8.74 Ac.±

MATT SLIFKO
SUSIE SLIFKO
D.B. 191, P. 253 6-30-44
D.B. 221, P. 105 5-3-52

219+60 E.B. 300 Rt.

REV	DATE	DESCRIPTION	BY

209+00 U.S. 40 to 221+50 W.B. U.S. 40
222+00 E.B. U.S. 40
R/W

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

228
250

GUERNSEY COUNTY
GUE-60-8.93
PART 1

R/W 10

Guernsey Co., Cambridge Twp.
U.S.M.L. Nº 23, T.1, R.3, U.S.M.L.

32+00 100' Lt.
30+20 55' Lt. P.C. 31+17.70
Const. Limits
30+70 0.50' Rt.
30+70 55' Rt.
9 X Cont. 0.33 Ac.±
32+00 85' Rt.
38+00 75' Lt.
P.T. 35+84.62
P.T. 70' Lt.
Const. Limits
32 33 34 35 36 N 25°31'31" W 37 38 39 40 41 42 43
℄ Survey & Construction
WILLS CREEK CHANNEL RELOC. Nº 1
Const. Limits
Const. Limits
43+00 See Sheet Nº R/W 11
5 X Cont. 8.74 Ac.±
38+30 88.50' Rt.
38+80 73.93' Rt.
35+84.62 70' Rt.
9 WA
5 WA
93+50 180' Rt.
Const. Limits
N

CHANNEL RELOC. Nº1
PROPOSED CURVE DATA
P.I. = 33+55.84
Δ = 28°00'00"
D = 6°00'00"
R = 954.93'
L = 466.67'
T = 238.09'
E = 29.23'

MATT SLIFKO
SUSIE SLIFKO
D.B. 191, P. 253 6-30-44
D.B. 221, P. 105 5-3-52

WILLS CREEK

HILLIS ALBRIGHT
MILTON W. ALBRIGHT
D.B. 206, P. 83 9-3-46
D.B. 245, P. 156 7-25-59

Ex. Dirt Farm Dr.
37+00 875' Rt.
35+84.62 625' Rt.
Const. Limits
Const. Limits
Const. Limits
Const. Limits
Const. Limits
38+50 390' Rt.
5 WA
39+80 65' Lt.
39+00.39 65' Lt.
39+00 66.50' Lt.
39+15 ℄
9 WA
NOTE:
See Sheet Nº R/W 2
(Property Plan) for
remainder of 9-WA
Ex. M.H.
Ex. M.H.
Ex. 12" V.S.P.
37+00 55' Lt.
R/W
R/W
Ex. 12" V.S.P.
Ex. M.H.
Ex. 12" V.S.P.
38+50 See Sheet Nº R/W 64
42+00 See Sheet Nº R/W 11
5 Cont. 2.08 Ac.±
Const. Limits
℄ Survey & Construction
T.R. 435 RELOC. ℄ 538.22' Lt.
R/W
5 LA
10+30 "S" 2.29' Rt.
10+82.25" 216.50' Rt.
9 LA
M.L. 23 10+26
5 WA
39+80 65' Lt.
39+00 66.50' Lt.
10' 10'

REV.	DATE	DESCRIPTION	BY

31+00 to 43+00 WILLS CREEK CHANNEL RELOC. Nº 1
38+50 to 42+00 T.R. 435 RELOC.

R/W

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

229
250

GUERNSEY COUNTY
GUE-40-8.93
LIMITED ACCESS
PART 1

R/W 11

BERTHA MAY FOGLE, ET AL
D.B.131, P.437 8-26-22
D.B.228, P.660 9-27-55
7 LA — Cont. 41.16 Ac.±
P.O.O. 1.82 Ac.±
Total 42.98 Ac.±

Guernsey Co., Cambridge Twp.
U.S.M.L. Nos. 23, 24, 25 & Lots 1, 2, 3 U.S.M.L.

N 15°-31'-31" W

M.L. 23
M.L. 24

32+00 See Sheet No. 22

52+00 See Sheet No. R/W 2

P.C. 51+77.23

RAMP "A"

P.C. 51+27.92

33°-57'-00" Rampl "A"
50+91.05 Willis Creek Reloc. No. 1

30+51.78 Ramp "A"
51+26.77 T.R. 435 Reloc.

35+00 See Sheet No. R/W 3

Ex. M.H.

C.S. 225+95.00

Ex. R/W

S.1. 228+46.90

WEST BOUND U.S. 40

Survey & Construction W.B. U.S. 40

N 61°-58'-08" E

Ex. Dirt & Gravel Dr.

236+00 See Sheet No. R/W 12

221+50 See Sheet No. R/W 9

222+00 See Sheet No. R/W 9

222+79.02 W.B. U.S. 40
50+12.85 Willis Creek Reloc. No. 1

223+76.14 W.B. U.S. 40
50+11.05 T.R. 435 Reloc.

N 15°-31'-31" W

Survey & Construction

T.R. 435 RELOC.

Cont. 18.32 Ac.±

S 89°-25'-47" E

223+31.44 E.B. U.S. 40
47+89.33 Willis Creek Reloc. No. 1

224+35.52 E.B. U.S. 40
47+56.68 T.R. 435 Reloc.

Survey & Construction

EAST BOUND U.S. 40

P.T. 47+03.22

Begin Taper

End Taper

Const. Limits

M.L. 25
M.L. 26
M.L. 27
M.L. 28
M.L. 29
M.L. 30

Cont. 8.74 Ac.±

45+25
100' Lt.

45+55.66
75' Rt.

CHANNEL RELOC. No. 1
PROPOSED CURVE DATA
P.I. = 45+96.18
Δ = 10°-00'-00"
D = 3°-00'-00"
R = 1909.86'
L = 333.33
T = 167.09

44+00
70' Lt.

W.B. U.S. 40
PROPOSED CURVE DATA
P.I. = 220+80.95
Δ = 33°-00'-00"
D = 2°-30'-00"
R = 2291.83'
L = 1195.00
T = 680.95'
To = 802.12'
Ls = 250.00'
Θs = 3°-07'-30"

43+00 See Sheet No. 10

WILLIS CREEK CHANNEL RELOC. No. 1

N 15°-31'-31" W

E.B. U.S. 40
PROPOSED CURVE DATA
P.I. = 239+85.00
Δ = 40°-58'-00"
D = 2°-00'-00"
R = 2864.79
L = 1844.64
Ts = 1170.54
Ls = 200.00'
Θs = 2°-00'-00"
Es = 194.03'

43+42.60 Wills Creek
70' Rt.

Const. Limits

P.C. 42+41.82

5 LA — Cont. 2.08 Ac.±

43+00 See Sheet No. R/W 10

MATT SLIFKO
SUSIE SLIFKO
D.B. 191, P.253 6-30-44
D.B. 221, P.105 5-3-52

10+09.50 Ramp "G"
125.50' Rt.

10+50 Ramp "G"
225' Rt.

9 LA — Cont. 0.26 Ac.±

HILLIS ALBRIGHT
MILTON W. ALBRIGHT
D.B. 206, P.83
D.B. 305, P.196

10+82 Ramp "G"
214.50 Lt.

12+22.22 "G"
166.19 Rt.

Ex. Twp. Rd. 435 Ex. 14'

12+00 See Sheet No. R/W 24

13 B LA

KENNETH A. GADD
D.B. 216, P.369 9-20-49
R = 356.22' (Deed) - M.L. 24
L.A. R/W 1893.00' M.L. 23 L.A. R/W 396.09'

RAMP "B"

RAMP "G"

S 89°-25'-47" E

F. Shed

I-5-F Rod

Ex. 12" V.S.P. Sanitary (Abandoned)

Ex. Twp. Rd. 435

WILLS CREEK

Ex. R/W

S.1. 230+14.66

REV.	DATE	DESCRIPTION	BY

221+50 to 232+00 W.B. U.S. 40
222+00 to 236+00 E.B. U.S. 40

R/W

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

230
260

R/W 12

GUERNSEY COUNTY
GUE-20-8.93
LIMITED ACCESS
PART I

Guernsey Co, Cambridge Twp
U.S.M.L. N°24, T.1, R.3, U.S.M.L.

27+00 See Sheet N° R/W 22
S.T. 27+02.68
651+50 See Sheet N° R/W 18
P.C. 27+49.84
236+00 See Sheet N° R/W 22
236+00 See Sheet N° R/W 11
446+00 See Sheet N° R/W 18
249+00 See Sheet N° R/W 13
251+00 See Sheet N° R/W 13
443+00 See Sheet N° R/W 17

RAMP "B"
WEST BOUND U.S. 40
N 61° 58' 08" E
RAMP "D"
RAMP "H"
SOUTH BOUND U.S. 21
NORTH BOUND U.S. 21
EAST BOUND U.S. 40
Survey & Construction W.B. U.S. 40
Survey & Construction S.B. U.S. 21
Survey & Construction E.B. U.S. 40
Survey & Construction N.B. U.S. 21

P.O.T. 23+23.60 Ramp "D"
236+15.00 W.B. U.S. 40, 37° Rt.
448+25 S.B. U.S. 21, 37° Rt.
P.T. 30+49.84
Ramp "B"
P.O.T. 8+00 Ramp "B"
238+00 W.B. U.S. 40, 37° Rt.
P.C.C. 6+08.54
P.O.T. 23+23.60 Ramp "D"
P.O.T. 29+10.02 Ramp "F"
440+00.00 N.B. U.S. 21, 37° Rt.
P.T. 20+00.00 Ramp "H"
240+00.00 E.B. U.S. 40, 37° Lt.
P.O.T. 20+80.50 Ramp "H"
238+30.96 E.B. U.S. 40
446+12.90 S.B. U.S. 21
P.C.C. 18+06.27
P.C.C. 10+04.73
P.C.C. 17+00.00
P.T. 22+75.86
C.S. 18+24.08
C.S. 10+63.10
C.S. 20+63.10
P.C.C. 22+08.75
P.O.T. 22+20.60
P.O.T. 8+00 Ramp "B"
P.O.T. 23+23.60 Ramp "D"
P.O.T. 20+80.50 Ramp "H"
S.T. 22+14.08
S.T. 250+63.10
T.S. 10+62.04

L.A. Ex. R/W
Ex. R/W
Ex. L.A.
Ex. C.M.P.
Ex. Dirt & Gravel Dr.
Ex. Conc. Dr.
Ex. Dirt Dr.
Ex. Gravel Dr.
Ex. Field Dr.
Ex. Well
Ex. Barn
Ex. Scale House
Ex. Rose Trellis
Ex. Conc. Curb & Gutter
Ex. M.E.
Ex. U.S. 21
Begin Taper
End Taper
Timber Bridge
F. Shed
F. Barn
1-S.Fr. Res.
Old Log House

TOM HOWARD
D.B. 234, P. 327
D.B. 241, P. 187
322-57
660.40' N.B. U.S. 21 (Deed)
1971+

DAVID JOSEPH McMANAWAY
BERTHA O. McMANAWAY
D.B. 193, P. 458
8-21-45
26 LA
Cont. 17.92 Ac.±
P.R.O. 2.58 Ac.±
Total 20.50 Ac.±

BERTHA MAY FOGLE, ET AL
D.B. 131, P. 437
2-26-22
D.B. 228, P. 460
9-27-55
7 LA
Cont. 41.16 Ac.±
P.R.O. 1.82 Ac.±
Total 42.98 Ac.±

KENNETH A. GADD
D.B. 216, P. 369
9-24-49
13 LA
Cont. 7.41 Ac.±
P.R.O. 5.96 Ac.±
Total 13.37 Ac.±

IRA A. THOMPSON ET AL
D.B. 239, P. 147
10 LA
Cont. 1.00 Ac.±

PAUL MORRISON
DOROTHY MORRISON
D.B. 193, P. 590
9-11-23
25 LA
Cont. 0.62 Ac.±
P.R.O. 0.38 Ac.±
Total 1.00 Ac.±

DAVID JOSEPH McMANAWAY
BERTHA O. McMANAWAY
D.B. 193, P. 458
8-21-45
26 LA
Cont. 12.92 Ac.±
P.R.O. 2.58 Ac.±
Total 20.50 Ac.±

W.B. U.S. 40
PROPOSED CURVE DATA
P.I. = 240+92.88
Δ = 7°40'16"
D = 1°00'00"
R = 5729.58'
L = 767.11'
T = 384.13'
E = 12.86'

S.B. U.S. 21
PROPOSED CURVE DATA
P.I. = 452+29.07
Δ = 77°39'23"
D = 3°00'00"
R = 1909.86'
L = 2288.55
Ts = 1688.66'
Ls = 300.00'
Θs = 4°30'00"
Es = 344.23'

E.B. U.S. 40
PROPOSED CURVE DATA
P.I. = 239+85.00
Δ = 40°58.22"
D = 2°00'00"
R = 2864.79'
L = 1948.64'
Ts = 1170.56
Ls = 200.00'
Θs = 2°00'00"
Es = 194.09

25 LA — Acquired from Kenneth A. Gadd, D.B. 228, P. 504, 9-28-55
26 LA — Acquired from C. Paul Morrison & Dorothy Morrison, D.B. 228, P. 530, 9-28-55
27 LA — Acquired from David Joseph McManaway & Bertha O. McManaway, D.B. 228, P. 448, 9-27-55
27 — Acquired from David Joseph McManaway & Bertha O. McManaway, D.B. 228, P. 448, 9-27-55
28 LA — Acquired from Bertha May Fogle, ET AL, D.B. 228, P. 501, 10-17-55
29 LA — Acquired from Raymond L. Herman & Dorothy E. Herman, D.B. 228, P. 512, 9-28-55, D.B. 237, P. 394, 1-9-57

REV.	DATE	DESCRIPTION	BY

234+00 to 249+00 W.B. U.S. 40
236+00 to 251+00 E.B. U.S. 40
437+50 to 446+00 N.B. U.S. 21
443+00 to 451+50 S.B. U.S. 21

R/W

FED. RD. DIVISION	STATE	PROJECT		231 250
2	OHIO			

GUERNSEY COUNTY
GUE-40-8.93
LIMITED ACCESS
PART 1

R/W 13

Guernsey Co., Cambridge Twp.
U.S.M.L. Nos. 9,24 & 25 ¼, T.1 C T.2, R.3 U.S.M.L.

N

LA & R/W

Const. Limits

13+00.00 "C"
110.00' Rt.

T.2 N.
T.1 N.

90+00.00 (Deed)

27 LA Cont. 31.61 Ac.±

253+75.00 W.B. U.S. 40
150.00' Lt.

TOM HOWARD
D.B. 234, P. 275 - 9-21-52
D.B. 241, P. 187 3-22-57

P.C. 6+01.32 Ramp "C"
257+50.00 W.B. U.S. 40, 24' Lt.

257+50.00 W.B. U.S. 40
100' Lt.

RAMP "C"

1a 1 2 3 4 5 6 7 8 9 10 11 12 13

249 250 251 252 253 254 255 256 257 258 259 260

N 69° 38' 28" E

249+00 See Sheet No. R/W 12

253+55.40
0.9' Rt.

Stone Fnd.

Prop. 30" Culvert

ML 24
ML 9

WEST BOUND U.S. 40

℄ Survey ℄ Construction W.B. U.S. 40

261+00 See Sheet No. R/W 12

P.C. 258+26.79

27 LA Cont. 31.61 Ac.±

JOHN E. TUCKER
ELVA L. TUCKER
D.B. 192, P. 121 6-14-44
D.B. 232, P. 327 12-9-55

+23.65 C.B. U.S. 40

ML 9

T.2 N.
T.1 N.

End Taper
262+00

N 49° 35' 51" E

263+00 See Sheet No. R/W 14

243 242 241 240 239 238 237 236 235 234 233 232 231 230 229 228 227 226 225 224 223 222 221 220 219 218 217 216 215 214 213 212 211 210 209 208 207 206 205 204 203 202 201 200 199 198 197 196 195 194 193 192 191 190 189 188 187 186 185 184 183 182 181 180 179 178 177 176 175 174 173 172 171 170 169 168 167 166 165 164 163 162 161 160 159 158 157 156 155 154 153 152 151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106 105 104 103 102 101 100 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

E.B. U.S. 40
PROPOSED CURVE DATA
P.I. = 265+69.39
Δ = 25°41'15"
D = 1°28'00"
R = 3906.53'
L = 1751.62'
T = 890.68'
E = 100.25'

W.B. U.S. 40
PROPOSED CURVE DATA
P.I. = 264+32.10
Δ = 5°38'42"
D = 0°28'00"
R = 12,277.67'
L = 1208.64'
T = 605.31'

Const. Limits

LA & R/W

19+00 "E"
12.5' Rt.

DAVID JOSEPH McMANAWAY
BERTHA O. McMANAWAY
D.B. 193, P. 458 2-21-45
26 LA Cont. 17.92 Ac.±
P.R.O. 2.58 Ac.±
Total 20.50 Ac.±

N 49° 35' 51" E

251+00 See Sheet No. R/W 12

HERBERT L. MORGAN
VIOLET MORGAN
D.B. 207, P. 269 6-14-67
23 LA Cont. 9.84 Ac.±
P.R.O. 0.16 Ac.±
Total 10.00 Ac.±

ML 24
ML 9

RAMP "F"

RAMP "E"

P.C. 256+78.21

N 48° 21' 53" E

100' (Deed)

118.40

19.00'

REV.	DATE	DESCRIPTION	BY
		249+00 to 261+00 W.B. U.S. 40 261+00 to 263+00 E.B. U.S. 40	RW

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

232
750

GUERNSEY COUNTY
GUE-4.0-8.93
LIMITED ACCESS
PART I

R/W 14

Guernsey Co., Cambridge Twp.
U.S.M.L. No. 9 & 4th ¼, T.1 & T.2, R.3 U.S.M.L.

N

TOM HOWARD
D.B. 234, P. 275 9-21-57
D.B. 241, P. 187 3-22-57

262+00.00 W.B. U.S. 40
220.00 Lt.

LA & R/W

266+00.00 W.B. U.S. 40
220.00 Lt.

LA & R/W

LA & R/W

278+80.00 E.B. U.S. 40
230.00 Lt.

LA & R/W

27 LA Cont. 31.61 Ac.±

Const. Limits

Begin Taper 264+00

End Taper 265+00

261+00 See Sheet No. R/W 13

N 69° 38' 24" E

262 263 264 265 266 267 268 269 270 271 272

WEST BOUND U.S. 40

℄ Survey & Construction W.B. U.S. 40

N 75° 17' 06" E

P.T. 270+36.03

273

N 75° 17' 06" E

273+50 See Sheet No. R/W 15

N 75° 17' 06" E

N 69° 35' 51" E

267 268 269 270 271 272 273 274

EAST BOUND U.S. 40

℄ Survey & Construction E.B. U.S. 40

263 264 265 266

RAMP "E" 27

25 26

P.C.C. 25+24.06

P.T. 28+24.06 Ramp "E"
267+00.00 E.B. U.S. 40, 37° Rt.

END PROJECT & WORK

211+35 E.B. U.S. 40

27 LA Cont. 31.61 Ac.±

272+67.25 Hoin St.
P.T. 274+30.13 E.B.
P.O.T. 272+26.34 W.B.

263+00 See Sheet No. R/W 13

24+25 See Sheet No. R/W 13

R M.L. 9

T.2 N.
T.1 N.

+23.65 E.B. U.S. 40

LA & R/W

LA & R/W

LA & R/W

267+50 E.B. U.S. 40
205.00 Rt.

273+30 E.B. U.S. 40
220.00 Rt.

LA & R/W

266+00.00 E.B. U.S. 40
220 Rt.

266+12.86 E.B. U.S. 40
214.93 Rt.

TOM HOWARD
D.B. 234, P. 275 9-21-57
D.B. 241, P. 187 3-22-57

Stone (Fnd)

N

R

T.2 N.
T.1 N.
M.L. 9

E.B. U.S. 40
PROPOSED CURVE DATA
P.I. = 265+69.39
Δ = 25° 41' 15"
D = 1° 38' 00"
R = 3906.53'
L = 1751.42'
T = 890.68'
E = 100.25'

W.B. U.S. 40
PROPOSED CURVE DATA
P.I. = 266+32.10
Δ = 5° 38' 42"
D = 0° 28' 00"
R = 12,277.67'
L = 1208.64'
T = 605.31'

JOHN E. TUCKER
ELVA L. TUCKER
D.B. 192, P. 121 6-14-44
D.B. 232, P. 327 12-9-55

REV.	DATE	DESCRIPTION	BY

261+00 W.B. U.S. 40
268+00 E.B. U.S. 40 to 273+30 U.S. 40 R/W

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

233
250

R/W 15

GUERNSEY COUNTY
GUE-40-8.83
LIMITED ACCESS
PART 1

Guernsey Co., Cambridge Twp.
4th ¼, T. 2, R. 3, U.S.M.L.

N

TOM HOWARD
D.B. 234, P. 275 3-21-57
D.B. 241, P. 187 3-22-57

PAUL A. WESTOVER
LENORA E. WESTOVER
D.B. 223, P. 627 3-24-52

CRAIG O. WARNE
DOROTHY WARNE
D.B. 233, P. 219 4-29-55

Cont. 0.09 Ac.±
27 X
276+00 / 275' Lt.
276+75 / 275' Lt.
276+00 / 225.91' Lt.
276+50.00 / 225.00' Lt.
276+75 / 222.91' Rt.
LA & R/W
Const. Limits
280+08.91 / 195.00 Lt.
289+00 / 195' Lt.
END PROJECT PART 2
279+00.00
67°35'44"
274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289
N 75°17'06" E
Survey & Construction U.S. 40
273+60 See Sheet No. R/W 14
27 LA Cont. 31.61 Ac.±
End Taper 277+37.62
GUE-40-10.52 PROJECT
278+30.52 / 190.00 Rt.
289+00 / 190' Rt.
279+08.92

TOM HOWARD
D.B. 234, P. 275 3-21-57
D.B. 241, P. 187 3-22-57

CRAIG O. WARNE
DOROTHY WARNE
D.B. 233, P. 219 4-29-55

REV	DATE	DESCRIPTION	BY

273+50 to 289+00 U.S. 40 R/W

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

234
250

GUERNSEY COUNTY
GUE-40-8.93
LIMITED ACCESS
PART 1

R/W 16

Guernsey Co., Cambridge Twp.
U.S.M.L. Nos. 9, 10, 23 & Ex. T. 1, R. 3, U.S.M.L.

KENNETH A. GADD
D.B. 216, P. 369 9-28-49

DONALD A. KRANZ, ET AL
D.B. 229, P. 376
G-12-54
1602.00' (Deed)
1502.00 (Deed)

E. JOSEPH DYER
M. IRENE DYER
D.B. 213, P. 535 12-19-53

ERNEST E. TODD
BERNICE D. TODD
D.B. 200, P. 314 G-9-46

JOHN E. TUCKER
ELVA L. TUCKER
D.B. 152, P. 121 G-16-46
D.B. 232, P. 327 12-9-55

HERBERT L. MORGAN
VIOLET MORGAN
D.B. 207, P. 269 G-16-47
Cont. 4.88 Ac.±
P.R.O. 0.16 Ac.±
Total 5.00 Ac.±

DEWEY E. VALENTINE
GLENNA RUTH VALENTINE
D.B. 229, P. 451
D.B. 240, P. 314
7-7-54
G-18-54
Cont. 1.06 Ac.±
P.R.O. 0.12 Ac.±
Total 1.18 Ac.±

RAYMOND VALENTINE
VERA VALENTINE
D.B. 167, P. 270
G-11-55
Cont. 0.39 Ac.±
P.R.O. 1.61 Ac.±
Total 2.00 Ac.±

JOHN E. TUCKER
ELVA L. TUCKER
D.B. 192, P. 121 6-16-46
D.B. 232, P. 327 12-9-55

CHARLES E. STEVENS
BETTY L. STEVENS
D.B. 266, P. 393 G-10-59

HARRY IRWIN GRAHAM
DORIS LEOTA GRAHAM
D.B. 201, P. 18
3-25-46

(21 LA) Acquired from John E. Tucker & Elva L. Tucker D.B. 228, P. 544 10-10-55

(22 LA) Acquired from Raymond Valentine & Vera Valentine D.B. 228, P. 547 10-5-55

(23 LA) Acquired from Raymond Valentine & Vera Valentine D.B. 228, P. 547 10-5-55

(24 LA) Acquired from Kenneth A. Gadd D.B. 228, P. 504 9-28-55

(28 LA) Acquired from George D. Hawkins & Esta M. Hawkins D.B. 228, P. 560 10-6-55

RAMP "E" PROPOSED CURVE DATA
P.I. = Lt. 77.63
Δ = 6°49'15"
D = 1°30'00"
R = 3819.72'
L = 454.79'
T = 227.63'

RAMP "E" PROPOSED CURVE DATA
P.I. = G+06.89
Δ = 8°00'00"
D = 6°00'00"
R = 1432.39'
L = 200.00'
T = 100.16'

RAMP "E" PROPOSED CURVE DATA
P.I. = 61+90.43
Δ = 28°20'06"
D = 6°00'00"
R = 716.20'
L = 354.19'
T = 180.70'
Ts = 276.41'
Ls = 200.00'
θs = 8°00'00"

S.B. U.S. 21 PROPOSED CURVE DATE
P.I. = 422+23.90
Δ = 25°17'54
D = 2°00'00"
R = 2864.79
L = 1164.92
T = 586.30
Ts = 701.71
Ls = 200.00'
θs = 2°00'00"

REV.	DATE	DESCRIPTION	BY

422+00 to 430+00 N.B. U.S. 21
422+00 to 432+00 S.B. U.S. 21 R/W

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

235
250

GUERNSEY COUNTY
GUE-40-8.93
LIMITED ACCESS
PART I

R/W 17

Guernsey Co, Cambridge Twp.
U.S.M.L. Nos. 9, 10, 23 & 24, T. 1, R. 3, U.S.M.L.

439+00 See Sheet No. R/W 18

KENNETH A. GADD
D.B. 216, P. 369 9-24-49
(13 LA) Cont. 7.41 Ac.±
P.R.O. 5.96 Ac.±
Total 13.37 Ac.±

RAMP "H"

EAST BOUND U.S. 40

Ex. U.S. 21

Survey & Construction E.B. U.S. 40

DAVID JOSEPH McMANAWAY
BERTHA O. McMANAWAY
D.B. 193, P. 458 2-21-45
(26 LA) Cont. 17.92 Ac.±
P.R.O. 2.58 Ac.±
Total 20.50 Ac.±

437+50 See Sheet No. R/W 18

RAMP "F"

NORTH BOUND U.S. 21

S.B. U.S. 21
PROPOSED CURVE DATA
P.I. = 452+29.07
Δ = 77°39'23"
D = 3°00'00"
R = 1909.86'
L = 2288.55'
Ts = 1688.66'
Ls = 300.00'
θs = 4°30'00"
Es = 544.23'

SOUTH BOUND U.S. 21

RAMP "G"

Const. Limits

Begin Taper 436+25

HERBERT L. MORGAN
VIOLET MORGAN
D.B. 207, P. 269 6-14-47
(23 LA) Cont. 4.84 Ac.±
P.R.O. 0.16 Ac.±
Total 5.00 Ac.±

JOHN DISS
DOROTHY DISS
D.B. 219, P. 696 1-12-52
(24 LA) Cont. 0.84 Ac.±
P.R.O. 0.16 Ac.±
Total 1.00 Ac.±

5+50.00 Ramp "D"
435+50.00 N.B. U.S. 21, 24 Ct.

EDWARD D. PERKINS
D.B. 234, P. 384 1-11-58
(20 LA) Cont. 1.58 Ac.±
P.R.O. 3.42 Ac.±
Total 5.00 Ac.±

Ex. Gravel Dr.

End Taper 433+00

JOHN E. TUCKER
ELVA L. TUCKER
D.B. 196, P. 121 6-14-44
D.B. 232, P. 327 12-9-55

DEWEY R. VALENTINE
GLENNA RUTH VALENTINE
D.B. 229, P. 451 7-7-54
D.B. 244, P. 314 6-19-59
(21 LA) Cont. 1.02 Ac.±
P.R.O. 0.12 Ac.±
Total 1.14 Ac.±

430+00 See Sheet No. R/W 16

RAYMOND VALENTINE
VERA VALENTINE
D.B. 162, P. 270 8-11-39
(23A LA) Cont. 3.39 Ac.±
P.R.O. 1.61 Ac.±
Total 2.00 Ac.±

KENNETH A. GADD
D.B. 216, P. 369 9-24-49
(13A LA) Cont. 2.80 Ac.±
P.R.O. 0.21 Ac.±
Total 3.01 Ac.±

DONALD A. KRANZ, ET AL
G.B. 254

E. JOSEPH DYER
M. IRENE DYER
D.B. 213, P. 535 12-19-53

(22 LA) Acquired from Raymond Valentine & Vera Valentine
D.B. 228, P. 567 10-5-55

(22) Acquired from Raymond Valentine & Vera Valentine
D.B. 228, P. 567 10-5-55

(23 LA) Acquired from Kenneth A. Gadd
D.B. 228, P. 504 9-28-55

(24 LA) Acquired from George D. Hawkins & Esta M. Hawkins
D.B. 228, P. 560 10-6-55

(25 LA) Acquired from Kenneth A. Gadd
D.B. 228, P. 504 9-28-55

(14 LA) Cont. 0.04 Ac.±

(15 LA) Cont. 0.35 Ac.±

REV.	DATE	DESCRIPTION	BY

430+00 to 437+50 N.B. U.S. 21 R/W
438+00 to 443+00 S.B. U.S. 21

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

236 / 250

GUERNSEY COUNTY
GUE-40-8.93
LIMITED ACCESS
PART 1

R/W 18

Guernsey Co., Cambridge Twp.
M.L. N° 24 & 4th 1/4, T.1 & T.2, R.3, U.S.M.L.

459+00 See Sheet N° R/W 19

454+00 See Sheet N° R/W 19

464+00 See Sheet N° R/W 19

458+00.00, 140.00' Rt.
(1955 Survey U.S.21)

24+00.00 "C"
115.00' Rt.

TOM HOWARD
D.B. 234, P. 275 9-21-57
D.B. 241, P. 187 3-22-57

N

S.B. U.S. 21
PROPOSED CURVE DATA
P.I. = 452+29.07
Δ = 17°39'23"
D = 3°00'00"
R = 1909.86'
L = 2288.59'
Ts = 1688.66'
Ls = 300.00'
θs = 4°30'00"
Es = 544.23'

HILLIS ALBRIGHT
MILTON W. ALBRIGHT
D.B. 206, P. 83 9-3-46
D.B. 245, P. 156 7-25-59
(11 LA) Cont. 14.36 Ac.±
P.R.O. 0.65 Ac.±
Total 15.01 Ac.±

SARAH E. VANCE
D.B. 203, P. 301 10-11-46
D.B. 239, P. 291 3-25-59
(12 LA) Cont. 0.50 Ac.±

BERTHA MAY FOGLE, ET AL
D.B. 131, P. 437 2-26-22
D.B. 228, P. 460 9-27-55
(7 LA) Cont. 91.46 Ac.±
P.R.O. 1.32 Ac.±
Total 92.98 Ac.±

(27 LA) Acquired from David Joseph McManaway & Bertha O. McManaway
D.B. 228, P. 448 9-27-55

(28 LA) Acquired from Bertha May Fogle, ET AL
D.B. 228, P. 501 10-17-55

(28 LA) Acquired from Lucinda C. Herman & Dorothy E. Herman
D.B. 228, P. 512 9-28-55
D.B. 237, P. 394 1-9-57

N.B. U.S. 21
PROPOSED CURVE DATA
P.I. = 459+76.19
Δ = 5°12'00"
D = 2°30'00"
R = 2291.83'
L = 1198.00'
Ts = 823.59'
Ls = 250.00'
θs = 3°07'30"
Es = 250.73'

DAVID JOSEPH McMANAWAY
BERTHA O. McMANAWAY
D.B. 193, P. 458 2-21-45
(26 LA) Cont. 17.92 Ac.±
P.R.O. 2.58 Ac.±
Total 20.50 Ac.±

Monument Found
453+00, 160.00' Rt.
(1955 Survey U.S.21)

453+58.26 N.B.U.S.21
124.36' Rt.

P.C. 1+99.39 Ramp "H"
452+00.00 S.B.U.S.21, 84' Rt.

451+50 See Sheet N° R/W 12

446+00 See Sheet N° R/W 12

235+80.08 W.B.U.S.40
650+11.24 S.B.U.S.21

245+10.09 W.B.U.S.40
445+48.49 N.B.U.S.21

Survey & Construction S.B.U.S.21

Survey & Construction N.B.U.S.21

Survey & Construction W.B.U.S.40

Ramp "A"
Ramp "B"
Ramp "C"
Ramp "D"
Ramp "H"

WEST-BOUND U.S. 40
SOUTH BOUND U.S. 21
NORTH BOUND U.S. 21

Ex. U.S. 21
Ex. Dirt Dr.
Ex. Gravel Dr.
Const. Limits
Fence Abandoned
Strip Mine Abandoned
F. Shed
F. Gar.
1-S-Fr. Res.
I.P. (Fnd)
P.T. 444+75.86
P.C. 447+84.85

T.S. 447+52.40
S.C. 450+02.60
T.S. 450+02.60
T.S. 454+50.15 Et
(1955 Survey U.S.21)

End Taper 456+00
Begin Taper 455+00
End Taper 452+00

T.S.R.
T.I.N.
M.L. 24

Cont. 31.61 Ac.±

1106.00' (Deed)
1168.00' (Deed)
1966.00' (Deed)
1968.00' (Deed)
310.00' (Deed)
320.00' (Deed)
330.00' (Deed)
450.00' (Deed)
113.30' (Deed)
113.50' (Deed)

N 14°35'51" W
N 61°58'08" E
N 69°38'26" E

REV.	DATE	DESCRIPTION	BY

446+00 to 454+00 N.B.U.S. 21
451+50 to 459+00 S.B.U.S. 21

R/W

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

237
250

GUERNSEY COUNTY
GUE-40-8.93
LIMITED ACCESS
PART 1

R/W 19

Guernsey Co., Cambridge Twp.
U.S.M.L. Nº 24 & 4th ½, T.1 & T.2, R.3, U.S.M.L.

FLOYD FILLMAN, JR.
ROMAINE FILLMAN
D.B. 221, P. 295 8-8-53

BEGIN WILLS CREEK CHANNEL RELOC. Nº 2 STA. 63+00.00

WILLIAM A. LARRICK
MARGARET K. LARRICK
D.B. 226, P. 87 12-31-52

CITY OF CAMBRIDGE
D.B. 118, P. 86
Cont. 1.51 Ac.±
P.R.O. 1.76 Ac.±
Total 3.27 Ac.±

HILLIS ALBRIGHT
MILTON W. ALBRIGHT
D.B. 206, P. 83 9-3-46
D.B. 245, P. 156 7-25-59

WILLS CREEK CHANNEL RELOC. Nº 2
PROPOSED CURVE DATA
P.I. = 68+78.00
Δ = 52°00'00"
D = 7°00'00"
R = 818.51'
L = 742.86'
T = 399.21'
E = 92.16'

RAMP "A"
PROPOSED CURVE DATA
P.I. = 13+71.58
Δ = 14°48'51"
D = 1°30'00"
R = 3813.72'
L = 987.61'
T = 496.58'

RAMP "C"
PROPOSED CURVE DATA
P.I. = 26+55.15
Δ = 7°15'07"
D = 2°30'00"
R = 2291.83'
L = 290.08'
T = 145.23'

S.B. U.S. 21
PROPOSED CURVE DATA
P.I. = 452+29.07
Δ = 7°39'23"
D = 3°00'00"
R = 1909.86'
L = 2288.55
Ts = 1688.66'
Ls = 300.00'
Θs = 4°30'00"
Es = 144.23'

T.R. 435 RELOC.
PROPOSED CURVE DATA
P.I. = 72+28.22
Δ = 74°46'51"
D = 2°00.00"
R = 2864.79'
L = 7140.71'
T = 372.64'
E = 24.11

Cont. 0.38 Ac.±

Cont. 0.76 Ac.±
P.R.O. 0.75 Ac.±
Total 1.51 Ac.±

Cont. 14.36 Ac.±
P.R.O. 0.65 Ac.±
Total 15.01 Ac.±

Cont. 31.61 Ac.±

TOM HOWARD
D.B. 234, P. 273 9-21-57
D.B. 241, P. 187 3-22-57

CITY OF CAMBRIDGE
D.B. 118, P. 86

(29) (LA) Acquired from Raymond C. Herman & Dorothy E. Herman
D.B. 228, P. 516 9-28-55
D.B. 237, P. 394 1-9-57

(29) Acquired from Raymond C. Herman & Dorothy E. Herman
D.B. 228, P. 561 10-26-55

(30) Acquired from Hillis D. Albright
D.B. 228, P. 480 10-21-55

(31) (LA) Acquired from The City of Cambridge
D.B. 228, P. 585 11-14-55

(31) Acquired from The City of Cambridge
D.B. 228, P. 585 11-14-55

(31) (B) Acquired from The City of Cambridge
D.B. 241, P. 202 10-10-57

(29) (A) Acquired from C.R. House & Amy E. House
D.B. 228, P. 620 1-26-56

REV.	DATE	DESCRIPTION	BY

63+00 to 66+00 WILLS CREEK CHANNEL RELOC. Nº 2
64+00 to 76+00 T.R. 435 RELOC.
450+00 to 462+00 N.B. U.S. 21
458+00 to 468+00 S.B. U.S. 21

R/W

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

238
250

R/W 20

GUERNSEY COUNTY
GUE-40-8.93
LIMITED ACCESS
PART 1

Guernsey Co., Cambridge Twp.
4th ¼, T.2, R.3, U.S.M.L.

T.R. 435 RELOC.
PROPOSED CURVE DATA
P.I. = 72+28.22
Δ = 14°48'51"
D = 2°00'00"
L = 740.71'
R = 2864.79'
T = 372.44
E = 24.11

WILLS CREEK RELOC. N° 2
PROPOSED CURVE DATA
P.I. = 68+78.00
Δ = 52°00'00"
D = 7°00.00"
R = 818.51'
L = 742.86'
T = 399.21'
E = 92.16'

WILLS CREEK RELOC. N° 2
PROPOSED CURVE DATA
P.I. = 75+65.00
Δ = 18°00'00"
D = 6°00'00"
R = 954.93'
L = 300.00'
T = 151.25'
E = 11.90'

END WILLS CREEK CHANNEL RELOC. N°2 STA. 77+00.00

WILLS CREEK CHANNEL RELOC. N° 2

WILLS CREEK

Const. Limits

€ Survey & Construction

N 8°40'09" E

Ex. 24" Water Line

Ex. 30" C.M.P.

Ex. C.B.

Ex. C.R. 522

Ex. U.S. 21

Ex. G.P.

Ex. L.A.

Ex. R/W

Prop. 90° Culvert

Begin Taper

End Taper

End Road

P.C. 51+79.32

P.T. 56+98.67

P.T. 70+13.75

P.C. 76+13.75

P.T. 77+13.75

Ex. 42" C.M.P.

Ex. 15" W. (Deed)

Ex. 12" W. (Deed)

Ex. 8" W. (Deed)

Ex. 6" W. (Deed)

Ex. 4" W. (Deed)

Ex. 8" S. (Deed)

Ex. 10" S. (Deed)

Ex. 12" S. (Deed)

Ex. 15" S. (Deed)

Ex. 18" S. (Deed)

Ex. 24" S. (Deed)

Ex. 30" S. (Deed)

Ex. 36" S. (Deed)

Ex. 42" S. (Deed)

Ex. 48" S. (Deed)

Ex. 54" S. (Deed)

Ex. 60" S. (Deed)

Ex. 66" S. (Deed)

Ex. 72" S. (Deed)

Ex.

Guernsey Co., Cambridge Twp.
$q^{SE}_{1/4}$, T.2, R.3, U.S.M.L.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

239
250

GUERNSEY COUNTY
GUE-40-8.93
LIMITED ACCESS
PART 1

R/W 21

N

MARY E. WILSON
D.B. 207, P. 313 7-26-30

GEORGE McMANAWAY
D.B. 18, P. 89 4-4-74

T.R. 435 RELOC.
PROPOSED CURVE DATA
P.I. · 94+06.79
Δ · 11°45'18"
D · 6°00'00"
R · 954.93'
L · 195.98'
T · 98.30'
E · 5.05'

MAURICE R. WILSON
D.B. 205, P. 226 12-19-47
D.B. 242, P. 527 11-28-58

GOLDIE M. SCANLON
D.B. 203, P. 14 6-22-46

Cont. 0.54 Ac.±
P.R.O. 0.22 Ac.±
Total 0.76 Ac.±

Cont. 0.34 Ac.±
P.R.O. 0.02 Ac.±
Total 0.36 Ac.±

Cont. 1.61 Ac.±
P.R.O. 0.03 Ac.±
Total 1.64 Ac.±

Cont. 0.91 Ac.±
P.R.O. 0.91 Ac.±
Total 0.62 Ac.±

85+37 See Sheet No. R/W 20

474+00 See Sheet No. R/W 20

Ex. Channel Easement

Ex. R/W

Ex. L.A.

Ex. C.R. 52

Ex. Bit. Pav't.

Ex. Dirt Drive

Ex. G.R.

Ex. C.B.

Ex. M.H.

Ex. U.S. 21 S.B.

Ex. U.S. 21 N.B.

Ex. 24"

Const. Limits

Survey & Construction

N 8°40'09" E

516.00' (Deed)

513.00' (Deed)

208.00' (Deed)

300' (Deed)

Prop. Field Drive

Toilet

Tile Shed

1-S. Fr. Res.

Well

F. Shed

2-S. Fr. Res.

1-S. Blk. Res. & Gar.

Table

85+80 65' Lt.

86+30 55' Lt.

86+90 61.00' Lt.

95+09.00 35' Lt.

P.T. 95+10.19

Sta. 83+23.5 (62.60' Lt. 1955 Survey U.S. 21)

93+16.50 12.50' Rt.

474+00 See Sheet No. R/W 20

END PROJECT
477+00.00 U.S. 21
PART 2

475	476	477
478	479	480
481	482	483
484	485	486
487		

(34) Acquired from Maurice R. Wilson
D.B. 228, P. 355 9-30-55

(34 X) Acquired from Maurice R. Wilson
Misc. Rec. 5, P. 28 8-9-57

(34 AX) Acquired from Mary E. Wilson
Misc. Rec. 5, P. 27 8-9-57

(35) Acquired from Goldie M. Scanlon
D.B. 228, P. 339 10-3-55

LA-Ex. R/W

CHARLES F. McMANAWAY
MYRTLE McMANAWAY
D.B. 161, P. 362 2-2-33
D.B. 166, P. 583 6-29-35

REV.	DATE	DESCRIPTION	BY

85+37 to 95+06 T.R. 435 RELOC.
474+00 to 477+00 U.S. 21

R/W

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

240
250

GUERNSEY COUNTY
GUE-40-8.93
LIMITED ACCESS
PART 1

R/W 22

RAMP "A" PROPOSED CURVE DATA
P.I. = 32+19.72
Δ = 47°10'02"
D = 8°00'00"
R = 716.20'
L = 589.59'
T = 315.83'
Ts = 410.43'
Ls = 200.00'
θs = 8°00'00"

T.R. 435 RELOC. PROPOSED CURVE DATA
P.I. 58+01.01
Δ = 10°41'01"
D = 3°00'00"
R = 1909.86'
L = 356.12'
T = 178.58'
E = 8.33'

T.R. 435 RELOC. PROPOSED CURVE DATA
P.I. 53+43.05
Δ = 39°41'32"
D = 16°00'00"
R = 358.10'
L = 310.58'
T = 163.82'
E = 36.53'

MATT SLIFKO
SUSIE SLIFKO
D.B. 191, P. 253 6-30-46
D.B. 221, P. 105 5-3-52

CHANNEL RELOC. N°1 PROPOSED CURVE DATA
P.I. = 53+40.33
Δ = 37°00'00"
D = 9°00'00"
R = 636.62'
L = 411.11'
T = 213.01'

FLOYD FILLMAN, JR.
ROMAINE FILLMAN
D.B. 121, P. 295 8-8-53

BERTHA MAY FOGLE, ET AL
D.B. 131, P. 437 2-26-22
D.B. 228, P. 460 9-27-55

Guernsey Co., Cumbridge Twp.
U.S.M.L. N°s 24, 25 & 61 ¼, T.1 & T.2, R.3 U.S.M.L.
Cont. 0.76 Ac. ±
P.R.O. 0.75 Ac. ±
Total 1.51 Ac. ±

HILLIS ALBRIGHT
MILTON W. ALBRIGHT
D.B. 206, P. 83 9-3-46
D.B. 245, P. 156 7-25-59
Cont. 14.30 Ac. ±
P.R.O. 0.65 Ac. ±
Total 15.01 Ac. ±

BERTHA MAY FOGLE, ET AL
D.B. 131, P. 437 2-26-22
D.B. 228, P. 460 9-27-55

Cont. 0.21 Ac. ±
Cont. 0.56 Ac. ±
Cont. 2.62 Ac. ±
Cont. 1.14 Ac. ±
Cont. 0.43 Ac. ±
Cont. 41.16 Ac. ±
P.R.O. 1.82 Ac. ±
Total 42.98 Ac. ±

WILLS CREEK CHANNEL RELOC. N°1
WILLS CREEK
Channel Easement
Const. Limits
℄ Survey & Construction
℄ Survey & Construction W.B. U.S. 40
℄ Survey & Construction S.B. U.S. 21
RAMP "A"
RAMP "B"
WEST BOUND U.S. 40
SOUTH BOUND U.S. 21
Ex. R/W
Ex. M.H.
Ex. Twp. Rd. 435
Mine Entrance
Fshop
Scale Sheet
T.R. 435 Reloc.
T.2 N.
T.1 N.

59+72.28 P.I.
P.C. 56+22.46
P.T. 52+87.18
P.C. 51+72.23
P.C. 51+20.34
P.C.C. 34+98.88
T.S. 28+09.29
S.T. 228+45.00
S.C. 15+28.87
C.S. 229+35.00
C.S. 24+02.68
T.S. 18+28.87
S.C. 15+28.87
Sta. 90+09.29
N 34° 10' 01" E
N 45° 13' 31" W
N 61° 58' 08" E
S 23° 29' 00" W
S 70° 39' 05" W
N 21° 28' 29" E
S 21° 29' 00" W

55+00 See Sheet N° R/W 9
52+00 See Sheet N° R/W 11
27+00 See Sheet N° R/W 12
451+50 See Sheet N° R/W 12
Sta. 59+30.50 to 61+50 See Sheet N° R/W 19

222+75.02 W.B. U.S. 40
50+12.45 Wills Creek Reloc. N°1
223+75.14 W.B. U.S. 40
50+17.05 T.R. 435 Reloc.
39+57.87 Ramp "A"
50+91.03 Wills Creek Reloc. N°1
51+76.77 T.R. 435 Reloc.

REV	DATE	DESCRIPTION	BY

52+00 to 60+00 WILLS CREEK CHANNEL RELOC. N°1
RAMPS "A" & "B" R/W

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

241/250

GUERNSEY COUNTY
GUE-40-8.93
LIMITED ACCESS
PART 1

R/W 23

Guernsey Co., Cambridge Twp.
U.S.M.L. N^os. 9,24 & 4th ¼, T.1 E T.2, R.3, U.S.M.L.

N

(27 LA) Acquired from David Joseph McManaway & Bertha O. McManaway
D.B. 228, P. 448 9-27-55

(28 LA) Acquired from Raymond L. Herman & Dorothy E. Herman
D.B. 228, P. 512 9-28-55
D.B. 237, P. 394 1-9-57

RAMP "C" PROPOSED CURVE DATA
P.I. 8+28.95
Δ = 6°49'15"
D = 1°30'00"
R = 3819.72'
L = 456.73'
T = 228.63'

RAMP "C" PROPOSED CURVE DATA
P.I. 12+50.20
Δ = 11°36'33"
D = 3°00'00"
R = 1909.86'
L = 386.97'
T = 194.15'

RAMP "C" PROPOSED CURVE DATA
P.I. 20+39.89
Δ = 66°00'50"
D = 6°00'00"
R = 954.93'
L = 1066.90'
T = 596.87'

Ex. U.S. 21
T.2 N.
T.1 N.
M.L. 24
23 LA
24+00 See Sheet No. R/W 19
453+00.00, 160.00' Rt. (1955 Survey U.S. 21)
LA-Ex. R/W
24+00.00 "C" 115.00' Rt.
Survey Mark Heretofore
453
N27°54'58"W
23
452
22
NORTH BOUND U.S. 21
451
21
1186.00' (Deed)
LA-Ex. R/W
Construction
TOM. HOWARD
D.B. 234, P. 275 9-21-57
D.B. 241, P. 187 3-22-57
453+00.00, 160.00' Rt. (1955 Survey U.S. 21)
SC 450+02.60
Monument Found
453+00.00, 160.00' Rt. (1955 Survey U.S. 21)
448+55.26 N.B. U.S. 21 124.96' Rt.
20 RAMP "C"
19
Survey & Construction
18
Limits
18+00.00 "C" 155.00' Rt.
27 LA Cont. 31.61 Ac.±
LA-Ex. R/W
I.P. (Fnd.)
N 0°19' W (USE)
S 88°06'12" W
T.S. 447+57.60
370.00' (Deed)
323.00' (Deed)
23 LA
448+55.26 N.B. U.S. 21 (1955 Survey U.S. 21)
449+37.00' 145.00' Rt. (1955 Survey U.S. 21)
450.00' (Deed)
310.00' (Deed)
27 LA
446.0375 1.97 Ac.
N 0°19' W (USE)
I.P. (Fnd.)
DAVID JOSEPH McMANAWAY
BERTHA O. McMANAWAY
D.B. 193, P. 459 8-21-45
26 LA Cont. 17.92 Ac.±
P.B.O. 2.58 Ac.±
Total 20.50 Ac.±
13+00.00 "C" 10.00' Rt.
P.C.C. 14+43.00
27 LA Cont. 31.61 Ac.±
LA-Ex. R/W
LA-Ex. R/W
Construction Limits
Prop. 30" Culvert
P.C.C. 10+56.05
903.00' (Deed)
S 88°06'12" W
S 76°27'39" W
9
10
11
12
13
14
15
16
17
446
445
442
443
444
445
446
447
448
449
250
251
252
253
254
255
P.T. 444+75.86
LA-Ex. R/W
€ Survey & Construction N.B. U.S. 21
€ Survey & Construction W.B. U.S. 40
N 69°38'26" E
WEST BOUND U.S. 40
223.175 130 Ft.
LA-Ex. R/W
Stone (Fnd.)
M.L. 24
253+55.60 0.9' Rt.
M.L. 9
T.2 N.
T.1 N.
JOHN E. TUCKER
ELVA L. TUCKER
D.B. 192, P. 121 6-14-44
D.B. 232, P. 327 12-9-55

REV.	DATE	DESCRIPTION	BY

RAMP "C" R/W

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

282/250

R/W 24

GUERNSEY COUNTY
GUE-40-8.93
LIMITED ACCESS
PART 1

Guernsey Co., Cambridge Twp.
U.S.M.L. Nos. 23 & 26, T1, R.3, U.S.M.L.

EAST BOUND U.S. 40

SOUTH BOUND U.S. 21

RAMP "H"

RAMP "G"

Survey & Construction E.B. U.S. 40

Survey & Construction S.B. U.S. 21

Const. Limits

Ex. R/W

Ex. L.A.

L.A. & R/W

Ex. Twp. Rd. 435

T.R. 435 RELOC.
PROPOSED CURVE DATA
PI 36+59.62
Δ 41°29'30"
D 8°00'00"
R 716.20'
L 518.65'
T 271.28'
E 49.66

RAMP "G"
PROPOSED CURVE DATA
P.I. 21+20.03
Δ 19°16'57"
D 1°30'00"
R 3819.72'
L 1283.27'
T 648.74'

KENNETH A. GADD
D.B. 216, P. 369 9-28-49
(13 LA) Cont. 7.36 Ac.±
P.R.O. 5.96 Ac.±
Total 13.30 Ac.±

BERTHA MAY FOGLE, ET AL
D.B. 131, P. 437
D.B. 228, P. 460
2-26-22
9-27-55
(13B LA) Cont. 0.01 Ac.±

TRA A. THOMPSON, ET AL
D.B. 238, P. 140
(10 LA) Cont. 1.00 Ac.±

HILLIS ALBRIGHT
MILTON W. ALBRIGHT
D.B. 206, P. 83 9-3-50
D.B. 245, P. 156 7-25-59
(9 LA) Cont. 1.66 Ac.±

DONALD A. KRANZ, ET AL
D.B. 228, P. 376
6-12-54
(14 LA) Cont. 0.66 Ac.± 56%

KENNETH A. GADD
D.B. 216, P. 369 9-28-49
(13A LA) Cont. 2.80 Ac.±
P.R.O. 0.21 Ac.±
Total 3.01 Ac.±

EDWARD D. PERKINS
D.B. 234, P. 384 1-11-50
(20 LA) Cont. 1.58 Ac.±
P.R.O. 3.42 Ac.±
Total 5.00 Ac.±

E. JOSEPH DYER
M. IRENE DYER
D.B. 213, P. 535 12-19-53

(24 LA) Acquired from George D. Hawkins & Esta M. Hawkins 10-6-55
D.B. 228, P. 560

(25 LA) Acquired from Kenneth A. Gadd 9-28-55
D.B. 228, P. 504

(9 WA) See Sheet N° R/W 2 (Property Plan) for remainder of 9-WA

35+84.05, 66.5' Rt. Wills Creek Reloc. N° 1

Wills Creek

Ex. 12"V.S.P. Sanitary (Abandoned)

Ex. 8" V.S.P.

Ex. 12"V.S.P.

Ex. C.M.P.

Ex. Dirt Dr.

Ex. Stone Dr.

Ex. Field Dr.

Ex. Gravel Dr.

Ex. 10" Drive

Ex. M.H.

Ex. Tile

Ex. Fence

Ex. Conc. Bit. Outside Cellar

Ex. Gar.

Ex. 1-S.Fr. Res.

Ex. 2-S.Fr. Res.

Ex. F. Barn

Ex. F. Shed

Ex. Shed

Monument Found

N

REV.	DATE	DESCRIPTION	BY

33+50 to 38+50 T.R. 435 RELOC. & RAMP "G" R/W

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

243
250

R/W 25

GUERNSEY COUNTY
GUE-60-8.93
PART 1

Guernsey Co., Cambridge Twp.
4th R., T.7, R.3, U.S.M.L.

N

MARY E. WILSON
D.B.207, P.313 7-26-30

CHARLES F. McMANAWAY
MYRTLE McMANAWAY
D.B.161, P.362 2-2-33
D.B.166, P.583 6-29-35

THE CITY OF CAMBRIDGE
D.B.118, P.81 7-18-16

T.R. 322 EXTN.
PROPOSED CURVE DATA
P.I. = 59+62.32
Δ = 28°49'23"
D = 9°00.00'
R = 636.62'
L = 319.15'
T = 163.00'

P.I. 58+82.84
Δ = 2°19'05"

Ex. T.R. 322

WILLIAM A. LARRICK
MARGARET K. LARRICK
D.B.226, P.87 12-31-52

JAMES McMANAWAY
D.B.151, P.961 5-2-53
D.B.164, P.290 3-1-61

JOSEPH McMANAWAY
D.B.160, P.389 3-24-32

Ex. 30 CMP

Ex. CB

Ex. Concrete Spillway

Ex. 36" C.M.P.

Ex. 72" Sec. Plate Pipe Water Line Conduit

Ex. 16" Water Line

Ex. 24" Water Line

Ex. Valve Box

PART 1 Proposed 24" Valve

Ex. M.H.

Ex. 24" Intake

Ex. Pump Sta. Bldg.

Ex. Dam

Ex. Dock & Gravel Dr.

Ex. Drive

Ex. Cmc

Ex. T.R. 635

Ex. 12"

S 23°29'00" W

N 42°31'51" W

WILLS CREEK

RESERVOIR DRIVE

THE CITY OF CAMBRIDGE
D.B.118, P.82 2-7-16

THE CITY OF CAMBRIDGE
D.B.117, P.269 1-31-16

TOM HOWARD
D.B.234, P.275 9-21-57
D.B.231, P.187 3-22-57

City of Cambridge Water Supply Reservoir

29 LA	Acquired from Raymond L. Herman & Dorothy E. Herman	
	D.B.228, P.512	9-28-55
	D.B.237, P.394	1-9-57
29	Acquired from Raymond L. Herman & Dorothy E. Herman	
	D.B.228, P.561	10-26-55
29 A	Acquired from C.E. House & Amy E. House	
	D.B.228, P.600	1-26-56
31 LA	Acquired from The City of Cambridge	
	D.B.228, P.585	11-14-55
31	Acquired from The City of Cambridge	
	D.B.228, P.585	11-14-55
31 B	Acquired from The City of Cambridge	
	D.B.241, P.202	10-10-57
32 LA	Acquired from Charles Duniver	
	D.B.228, P.496	10-10-55
33	Acquired from Charles F. McManaway & Myrtle McManaway	
	D.B.228, P.533	10-8-55
31 A	Acquired from The City of Cambridge	
	D.B.228, P.585	11-14-55
30	Acquired from Hillis D. Albright	
	D.B.228, P.480	10-21-55

REV.	DATE	DESCRIPTION	BY

50+50 to 59+50 T.R. 322 EXTN. R/W

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

244
250

R/W 26

GUERNSEY COUNTY
GUE-40-8.93
PART 1

Guernsey Co. Cambridge & Jackson Twp's.
U.S.M.L. N^os. 10, 11, 22, 23, T1, R 3, U.S.M.L.

JACKSON TOWNSHIP
CAMBRIDGE TOWNSHIP

EDNA VALENTINE
D.B. 157, P. 208 9-20-30
D.B. 192, P. 583 11-25-44
D.B. 206, P. 549
D.B. 265, P. 486 7-18-60

C.R. 321 EXTN.
PI = 31+72.36
Δ = 20°17'52"
D = 5°00'00"
R = 1145.92'
L = 405.95'
T = 205.13'
E = 18.22'

M.L. 11
M.L. 10
M.L. 22
M.L. 23

31+05.35
55' Lt.

R/W

Const. Limits

33+00
55' Lt.

33+20
50' Lt.

33+20
75' Lt.

36+30
75' Lt.

G WA

G Cont. 1.75 Ac.±

Cont. 0.02 Ac.±

G X

37+75
125' Lt.

38+29.50
65' Lt.

37+75
40' Lt.

Ex. R/W

Ex. 12" S

N 10°40'55" E
Ex. 172.55'

N 12°12'20" W

C.R. 321 EXTN.

Const. Limits

Prop. 18" Drive Pipe

Prop. 24" Culvert

Const. Limits

R/W

34+30
50' Rt.

34+30
80' Rt.

Coal & Dirt Dr.

38+71.50
50' Rt.

10" CMP

Ex. 12" Tile Pipe

Ex. R/W

S 87°29'28" W

PC 29+67.23

Coal & Dirt
Turnaround

R/W

31+06.56
55' Rt.

105.93'

33+00
50' Rt.

Fr. Scale House
Scales

6" C.I.P.

Fr. Tipple

33+20
80' Rt.

Dirt Dr.

Ex. Mine Track

G A WA

JOHN E. TUCKER
ELVA L. TUCKER
D.B. 192, P. 121 6-14-44
D.B. 232, P. 327 12-9-55

MATT SLIFKO
SUSIE SLIFKO
EARL T. SLIFKO
D.B. 234, P. 500 3-3-59

HILLIS ALBRIGHT
MILTON W. ALBRIGHT
D.B. 206, P. 83 9-3-46
D.B. 265, P. 156 7-25-59

REV.	DATE	DESCRIPTION	BY

27+00 to 38+63 C.R. 321 EXTN. R/W

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

245
250

GUERNSEY COUNTY R/W 27
GUE-40-8.93 1 of 4
PART 1

CENTER LINE SURVEY PLAT

GUE 40-8.93

JACKSON & CAMBRIDGE TWP'S

U.S.M.L. Nº's 9,10,11,23,24,25,26 & 4TH ¼ T.1 & T.2, R.3 U.S.M.L.

GUERNSEY COUNTY

0 200 400 600 800

SCALE: 1" = 200'

Received July 12 - 1962 at 11:15 AM
Recorded July 13 - 1962
Plot Book 11 Page 46
Signed John W. Campbell
Recorder, Guernsey County
Fee $3 pd

Note:
This instrument prepared by the Ohio Department of Highways under the supervision of
Signed Harry C. Brenno

Registered Engineer Nº 15394
Registered Surveyor Nº 2694
Resident Division Deputy Director
Date: 7-11-62

This improvement has been declared a Limited Access Highway from Station 195+00 to Station 279+00 by action of the Director of Highways and recorded in Volume 44, Page 263, of the Directors Journal Pursuant to law.

Note:
This plat includes and supersedes parts of Sheets 1 and 2 of the Location Plan for GUE-21-5.90 as recorded in Plot Book 10, Page 48 of the Guernsey County Plat Records.

WILLS CREEK RELOC.#1.
P.I. 45+96.18
Δ = 10°00'00"
D = 3°00'00"
R = 1909.86'
L = 333.33'
T = 167.09'

WILLS CREEK RELOC.#1.
P.I. 53+40.33
Δ = 37°00'00"
D = 9°00'00"
R = 636.62'
L = 411.11'
T = 213.01'

WILLS CREEK RELOC.#1.
P.I. 33+55.84
Δ = 28°00'00"
D = 6°00'00"
R = 954.93'
L = 466.67'
T = 238.09'
E = 29.23'

RAMP "A"
P.I. 38+49.09
Δ = 7°30'00"
D = 2°30'00"
R = 2291.83
L = 300.00'
T = 150.21'

T.R. 435 Reloc.
P.I. 36+59.62
Δ = 41°29'30"
D = 8°00'00"
R = 716.20'
L = 518.65'
T = 271.28
E = 49.66'

T.R. 435 Reloc.
P.I. 45+10.70
Δ = 73°54'16"
D = 16°00'00"
R = 358.10'
L = 461.90'
T = 269.38'
E = 90.01'

T.R. 435 Reloc.
P.I. 53+43.05
Δ = 49°41'32"
D = 16°00'00"
R = 358.10'
L = 310.58'
T = 165.82'
E = 36.53'

T.R. 435 Reloc.
P.I. 58+01.04
Δ = 10°41'01"
D = 3°00'00"
R = 1909.86'
L = 356.12'
T = 178.58
E = 8.33'

U.S. 40
P.I. 211+11.58
Δ = 17°23'42"
D = 1°28'00"
R = 3,906.53'
L = 1,186.03'
T = 597.61'

W.B. U.S. 40
P.I. 220+80.95
Δ = 35°00'00"
D = 2°30'00"
R = 2291.83'
L = 1,195.00'
T = 680.95'
Ts = 802.12'
Ls = 250.00'
θs = 3°07'30"

W.B. U.S. 40
P.I. 240+92.88
Δ = 7°40'16"
D = 1°00'00"
R = 5,729.58'
L = 767.11'
T = 384.13
E = 12.86'

E.B. U.S. 40
P.I. 259+85.00
Δ = 40°58'22"
D = 2°00'00"
R = 2864.79'
L = 1,848.64'
Ts = 1,170.54'
Es = 194.08'
Ls = 200.00'
θs = 2°00'00"

S.B. U.S. 21
P.I. 452+29.07
Δ = 77°39'25"
D = 3°00'00"
R = 1909.86'
L = 2,288.55'
Ts = 1,488.66'
Es = 544.23'
Ls = 300.00'
θs = 4°30'00"

RAMP "G"
P.I. 21+20.83
Δ = 19°14'57"
D = 1°30'00"
R = 3819.72'
L = 1,283.27'
T = 647.74'

RAMP "A"
P.I. 32+19.72
Δ = 47°10'02"
D = 8°00'00"
R = 716.20'
L = 589.59'
T = 315.83'
Ts = 410.43'
Ls = 200.00'
θs = 8°00'00"

RAMP "A"
P.I. 35+99.13
Δ = 10°00'00"
D = 5°00'00"
R = 1145.92'
L = 200.00'
T = 100.25'

■ Monument Symbol
● Monument Assembly Symbol

(1) P.T. 47+62.44

(2) P.C. 51+27.32

(A) 32+51.78 Ramp "A" = 51+26.77 T.R. 435 Reloc.

(B) 223+75.14 U.S. 40 W.B. = 50+17.05 T.R. 435 Reloc.

(C) 224+35.52 U.S. 40 E.B. = 47+56.48 T.R. 435 Reloc.

(D) 223+31.44 U.S. 40 E.B. = 47+85.33 Wills Creek

(E) 222+75.02 U.S. 40 W.B. = 50+12.45 Wills Creek

(F) 33+57.87 Ramp "A" = 50+91.65 Wills Creek

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

246
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

R/W 28
2 of 4

CENTER LINE SURVEY PLAT

GUE 40-8.93

JACKSON & CAMBRIDGE TWP'S

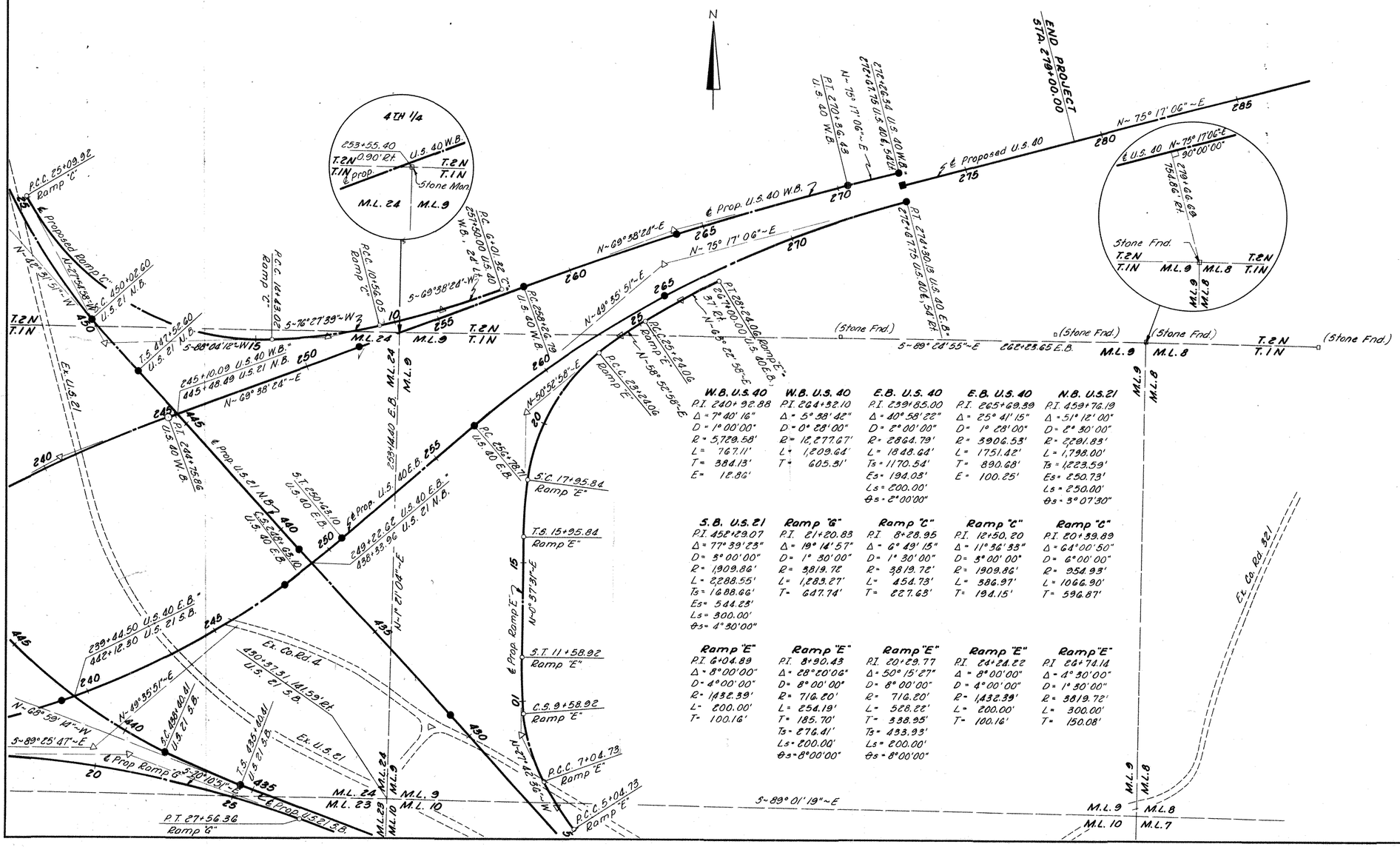
U.S.M.L. Nº's 9,10,11,23,24,25,26 & 4TH 1/4 T.1 & T.2, R.3 U.S.M.L.

GUERNSEY COUNTY

0 200 400 600 800

SCALE: 1" = 200'

LIMITED ACCESS



W.B. U.S. 40
P.I. 240+92.88
Δ = 7° 40' 16"
D = 1° 00' 00"
R = 5,729.58'
L = 767.11'
T = 384.13'
E = 12.86'

W.B. U.S. 40
P.I. 264+52.10
Δ = 5° 38' 42"
D = 0° 28' 00"
R = 12,277.67'
L = 1,209.64'
T = 605.31'

E.B. U.S. 40
P.I. 259+85.00
Δ = 40° 58' 22"
D = 2° 00' 00"
R = 2864.79'
L = 1848.64'
Ts = 1170.54'
Es = 194.03'
Ls = 200.00'
θs = 2° 00' 00"

E.B. U.S. 40
P.I. 265+69.39
Δ = 25° 41' 15"
D = 1° 28' 00"
R = 3906.53'
L = 1751.42'
T = 890.68'
E = 100.25'

N.B. U.S. 21
P.I. 459+76.19
Δ = 51° 12' 00"
D = 2° 30' 00"
R = 2291.83'
L = 1,798.00'
Ts = 1,223.59'
Es = 250.73'
Ls = 250.00'
θs = 3° 07' 30"

S.B. U.S. 21
P.I. 452+29.07
Δ = 77° 39' 23"
D = 5° 00' 00"
R = 1,909.86'
L = 2,288.55'
Ts = 1688.66'
Es = 544.23'
Ls = 300.00'
θs = 4° 30' 00"

Ramp "G"
P.I. 21+20.83
Δ = 19° 14' 57"
D = 1° 30' 00"
R = 3819.72'
L = 1,283.27'
T = 647.74'

Ramp "C"
P.I. 8+28.95
Δ = 6° 49' 15"
D = 1° 30' 00"
R = 3819.72'
L = 454.73'
T = 227.63'

Ramp "C"
P.I. 12+50.20
Δ = 11° 36' 33"
D = 3° 00' 00"
R = 1909.86'
L = 386.97'
T = 194.15'

Ramp "C"
P.I. 20+39.89
Δ = 64° 00' 50"
D = 6° 00' 00"
R = 954.93'
L = 1066.90'
T = 596.87'

Ramp "E"
P.I. 6+04.89
Δ = 8° 00' 00"
D = 4° 00' 00"
R = 1432.39'
L = 200.00'
T = 100.16'

Ramp "E"
P.I. 8+90.43
Δ = 28° 20' 06"
D = 8° 00' 00"
R = 716.20'
L = 254.19'
T = 185.70'
Ts = 276.41'
Ls = 200.00'
θs = 8° 00' 00"

Ramp "E"
P.I. 20+29.77
Δ = 50° 15' 27"
D = 8° 00' 00"
R = 716.20'
L = 628.22'
T = 338.95'
Ts = 433.93'
Ls = 200.00'
θs = 8° 00' 00"

Ramp "E"
P.I. 24+24.22
Δ = 8° 00' 00"
D = 4° 00' 00"
R = 1,432.39'
L = 200.00'
T = 100.16'

Ramp "E"
P.I. 26+74.14
Δ = 4° 30' 00"
D = 1° 30' 00"
R = 3819.72'
L = 300.00'
T = 150.08'

■ Monument Symbol
● Monument Assembly Symbol

Received July 12- 1967 at 11:20 AM
Recorded July 13- 1967
Plat Book 11 Page 47
Signed John W. Campbell
Recorder, Guernsey County
Fee: $3.00 pd

Note:
This instrument prepared by the Ohio Department of Highways under the supervision of
Signed Gary J. Brasko

Registered Engineer Nº 15394
Registered Surveyor Nº 2694
Resident Division Deputy Director
Date: 7-11-67

This improvement has been declared a Limited Access Highway from Station 195+00 to Station 279+00 by action of the Director of Highways and recorded in Volume 44, Page 263, of the Directors Journal Pursuant to law.

Note:
This plat includes and supersedes parts of sheets 1 and 2 of the Location Plan for GUE-21-5.90 as recorded in Plat Book 10, Page 48 of the Guernsey County Plat Records.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

247
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

R/W 29
3 of 4

CENTER LINE SURVEY PLAT

GUE 40-8.93

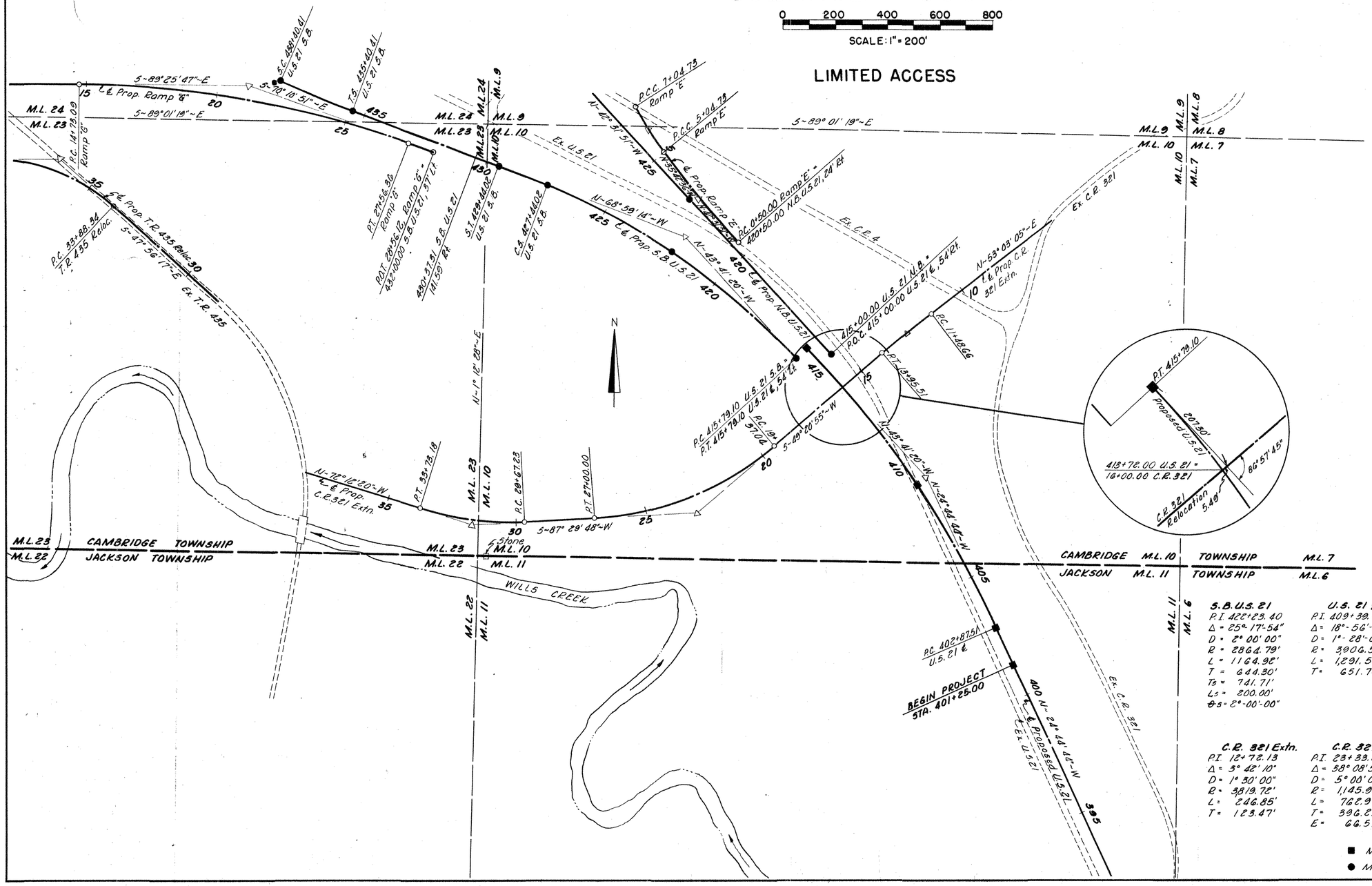
JACKSON & CAMBRIDGE TWP'S

U.S.M.L. Nº's 9,10,11,23,24,25,26 & 4TH 1/4 T.1 & T.2, R.3 U.S.M.L.

GUERNSEY COUNTY

0 200 400 600 800

SCALE: 1" = 200'



S.B. U.S. 21	U.S. 21 ℄	RAMP "G"	RAMP "E"	RAMP "E"
P.I. 422+23.40	P.I. 409+39.25	P.I. 2+20.83	P.I. 2+77.63	P.I. 6+04.89
Δ = 25° 17' 54"	Δ = 18° 56' 36"	Δ = 19° 14' 57"	Δ = 6° 49' 15"	Δ = 8° 00' 00"
D = 2° 00' 00"	D = 1° 28' 00"	D = 1° 30' 00"	D = 1° 30' 00"	D = 4° 00' 00"
R = 2864.79'	R = 3906.53'	R = 3819.72'	R = 3819.72'	R = 1432.39'
L = 1164.98'	L = 1291.59'	L = 1283.27'	L = 454.73'	L = 200.00'
T = 644.30'	T = 651.74'	T = 647.74'	T = 227.63'	T = 100.16'
Ts = 741.71'				
Ls = 200.00'				
Θs = 2° 00' 00"				

C.R. 321 Extn.	C.R. 321 Extn.	C.R. 321 Extn.	T.R. 435 Reloc.
P.I. 12+72.13	P.I. 23+33.27	P.I. 31+78.36	P.I. 36+59.62
Δ = 3° 42' 10"	Δ = 38° 08' 53"	Δ = 20° 17' 52"	Δ = 41° 29' 30"
D = 1° 30' 00"	D = 5° 00' 00"	D = 5° 00' 00"	D = 8° 00' 00"
R = 3819.72'	R = 1145.92'	R = 1145.92'	R = 716.20'
L = 246.85'	L = 762.96'	L = 405.95'	L = 518.65'
T = 123.47'	T = 396.23'	T = 205.13'	T = 271.28'
	E = 66.57'	E = 18.22'	E = 49.66'

■ Monument Symbol

● Monument Assembly Symbol

Received July 12 1962 at 11:25 AM
Recorded July 13 1962
Plat Book 11 Page 48
Signed John W. Campbell
Recorder, Guernsey County
Fee: $3.00 pd

Note
This instrument prepared by the Ohio Department of Highways under the supervision of
Signed [illegible]

Registered Engineer Nº 15394
Registered Surveyor Nº 2694
Resident Division Deputy Director
Date: 7-11-62

This improvement has been declared a Limited Access Highway from Station 195+00 to Station 279+00 by action of the Director of Highways and recorded in Volume 44, Page 263, of the Directors Journal Pursuant to law.

Note:
This plat includes and supersedes parts of sheets 1 and 2 of the Location Plan for GUE-21-5.90 as recorded in Plat Book 10, Page 48 of the Guernsey County Plat Records.

FED. RD. DIVISION	STATE	PROJECT		248
2	OHIO			250

GUERNSEY COUNTY R/W 30
GUE-40-8.93 4 of 4
PART 1

CENTER LINE SURVEY PLAT

GUE 40-8.93

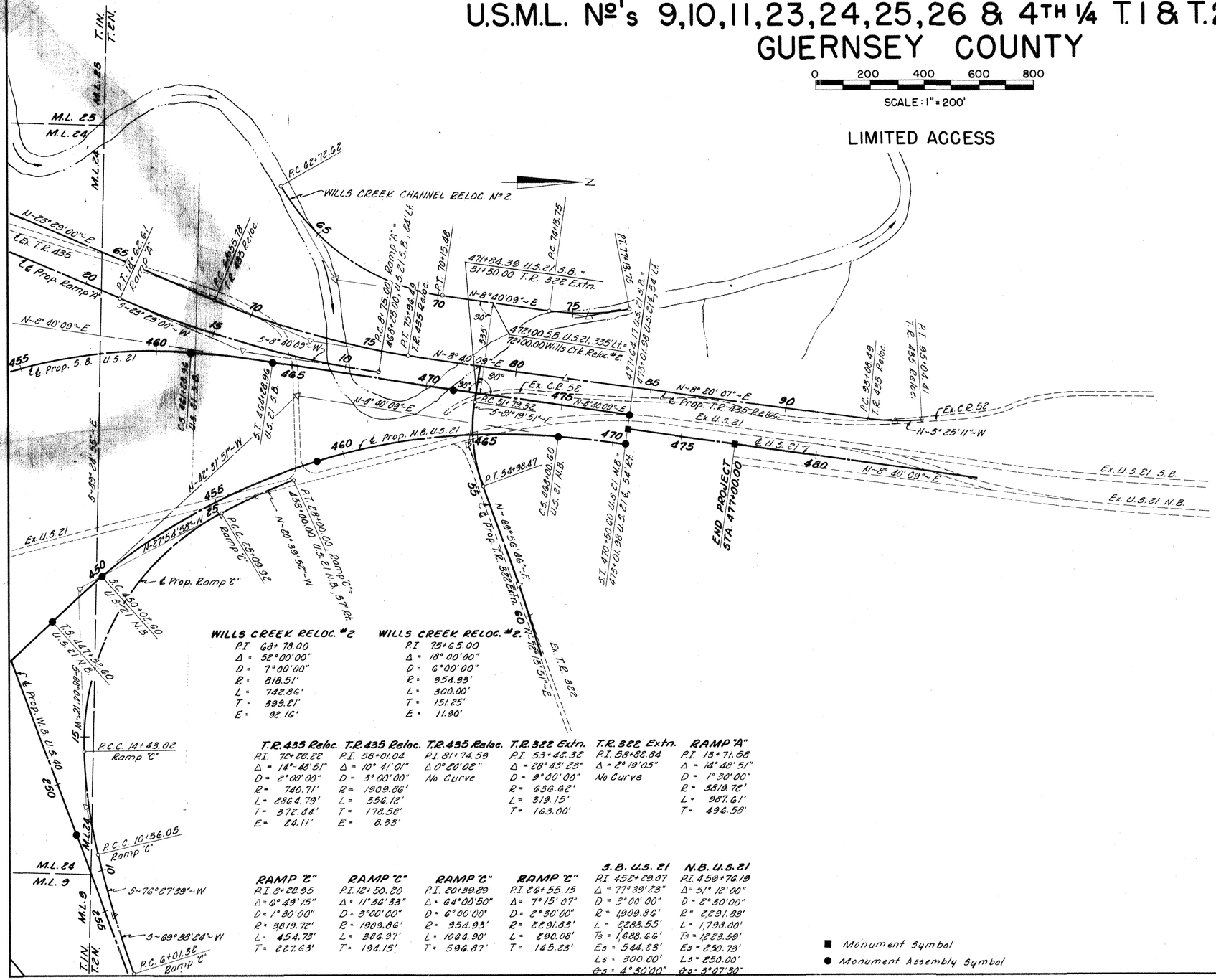
JACKSON & CAMBRIDGE TWP'S

U.S.M.L. Nº's 9,10,11,23,24,25,26 & 4TH 1/4 T.1 & T.2, R.3 U.S.M.L.

GUERNSEY COUNTY

0 200 400 600 800

SCALE: 1" = 200'



WILLS CREEK RELOC. Nº 2

P.I.	68+78.00
Δ =	52°00'00"
D =	7°00'00"
R =	818.51'
L =	742.86'
T =	399.21'
E =	92.16'

WILLS CREEK RELOC. Nº 2.

P.I	75+65.00
Δ =	18°00'00"
D =	6°00'00"
R =	954.93'
L =	300.00'
T =	151.25'
E =	11.90'

T.R. 435 Reloc.

P.I.	72+28.22
Δ =	14°48'51"
D =	2°00'00"
R =	740.71'
L =	286.4.79'
T =	372.84'
E =	24.11'

T.R. 435 Reloc.

P.I.	58+01.04
Δ =	10° 41'01"
D =	3°00'00"
R =	1909.86'
L =	356.12'
T =	178.58'
E =	8.33'

T.R. 435 Reloc.

P.I.	81+74.59
Δ	0°20'02"
	No Curve

T.R. 322 Extn.

P.I.	53+42.32
Δ =	28°43'23"
D =	9°00'00"
R =	636.62'
L =	319.15'
T =	163.00'

T.R. 322 Extn.

P.I.	58+82.84
Δ =	2°19'05"
	No Curve

RAMP "A"

P.I.	13+71.58
Δ =	14°48'51"
D =	1°30'00"
R =	3819.76'
L =	987.61'
T =	496.58'

RAMP "B"

P.I.	8+28.95
Δ =	6°49'15"
D =	1°30'00"
R =	3819.72'
L =	454.73'
T =	227.63'

RAMP "C"

P.I.	12+50.20
Δ =	11°56'33"
D =	3°00'00"
R =	1909.86'
L =	386.97'
T =	194.15'

RAMP "C"

P.I.	20+89.89
Δ =	6°00'50"
D =	6°00'00"
R =	954.93'
L =	1066.90'
T =	596.87'

RAMP "C"

P.I.	26+55.15
Δ =	7°15'07"
D =	2°30'00"
R =	2291.83'
L =	2288.55'
Ts =	1,688.66'
Es =	544.23'
Ls =	300.00'
Θs =	4°30'00"

S.B. U.S. 21

P.I.	452+29.07
Δ =	77°39'23"
D =	3°00'00"
R =	1,909.86'
L =	2288.55'
Ts =	1,688.66'
Es =	544.23'
Ls =	300.00'
Θs =	4°30'00"

N.B. U.S. 21

P.I.	459+76.19
Δ =	51° 12'00"
D =	2°30'00"
R =	2291.83'
L =	1,709.00'
Ts =	1223.59'
Es =	350.73'
Ls =	250.00'
Θs =	3°07'30"

■ Monument Symbol

● Monument Assembly Symbol

Received July 12 1962 at 11:30 AM
Recorded July 13 1962
Plat Book 11 Page 49
Signed John W. Campbell
Recorder, Guernsey County
Fee: 3.00 pd

Note:
This instrument prepared by the Ohio Department of Highways under the Supervision of
Signed: Harry C. Brann
Registered Engineer Nº 15394
Registered Surveyor Nº 2694
Resident Division Deputy Director
Date: 7-11-62

This improvement has been declared a Limited Access Highway from Station 195+00 to Station 279+00 by action of the Director of Highways and recorded in Volume 44, Page 263, of the Directors Journal Pursuant to law.

Note:
This plat includes and supersedes parts of Sheets 1 and 2 of the Location Plan for GUE-21-5.90 as recorded in Plat Book 10, Page 48 of the Guernsey County Plat Records.

Monuments or Monument Assemblies shall be set at the following locations on U.S. 40 & U.S. 21.

Point Referenced	Station
P.O.T.	195+00 U.S.40
P.C.	205+19.97 U.S.40
P.O.C.	212+00 U.S.40
P.T.	217+00 U.S.40
P.O.T.	217+00 E.B.U.S40
P.O.T.	221+50 E.B.U.S.40
T.S.	228+14.46 E.B.U.S40
S.C.	230+14.46 E.B.U.S.40
P.O.C.	239+00 E.B.U.S.40
P.O.C.	248+00 E.B.U.S.40
S.T.	250+63.10 E.B.U.S.40
P.C.	256+78.71 E.B.U.S.40
P.O.C.	265+00 E.B.U.S.40
P.T.	274+90.13 E.B.U.S.40
P.C.	214+00 W.B.U.S.40
P.O.C.	220+00 W.B.U.S.40
C.S.	225+95.00 W.B.U.S.40
S.T.	228+45.00 W.B.U.S.40
P.C.	237+08.75 W.B.U.S.40
P.O.T.	252+00 W.B.U.S.40
P.C.	258+26.79 W.B.U.S.40
P.O.C.	264+00 W.B.U.S.40
P.T.	270+36.43 W.B.U.S.40
P.O.T.	272+26.34 W.B.U.S.40
P.O.T.	278+67.75 U.S. 40
P.O.T.	401+25 U.S. 21
P.C.	402+87.51 U.S.21
P.O.C.	409+00 U.S.21
P.T.	415+79.10 U.S.21
P.O.T.	415+00 N.B.U.S.21
P.O.T.	423+00 N.B.U.S.21
P.O.T.	431+00 N.B.U.S.21
P.O.T.	439+00 N.B.U.S.21
T.S.	447+52.60 NB U.S 21
S.C.	450+02.60 N.B.U.S.21
P.O.C.	459+00 N.B.U.S.21
C.S.	468+00.60 N.B.U.S.21
S.T.	470+50.60 N.B.U.S21
P.C.	415+79.10 S.B.U.S.21
P.O.C.	422+00 S.B.U.S.21
C.S.	427+44.025 B.U.S21
S.T.	429+44.025 B.U.S.21
T.S.	435+40.415 B.U.S21
S.C.	438+40.415 B.U.S.21
P.O.C.	446+00 S.B.U.S.21
P.O.C.	454+00 S.B.U.S.21
C.S.	464+28.96 S.B.U.S.21
S.T.	464+28.96 S.B.U.S.21
P.O.T.	471+00 S.B.U.S.21
P.O.T.	477+64.17 S.B.U.S.21
P.O.T.	413+01.98 S.B.U.S.21
P.O.T.	477+00 U.S.21

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

249
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

R/W31
1 of 2

PROPERTY PLAT

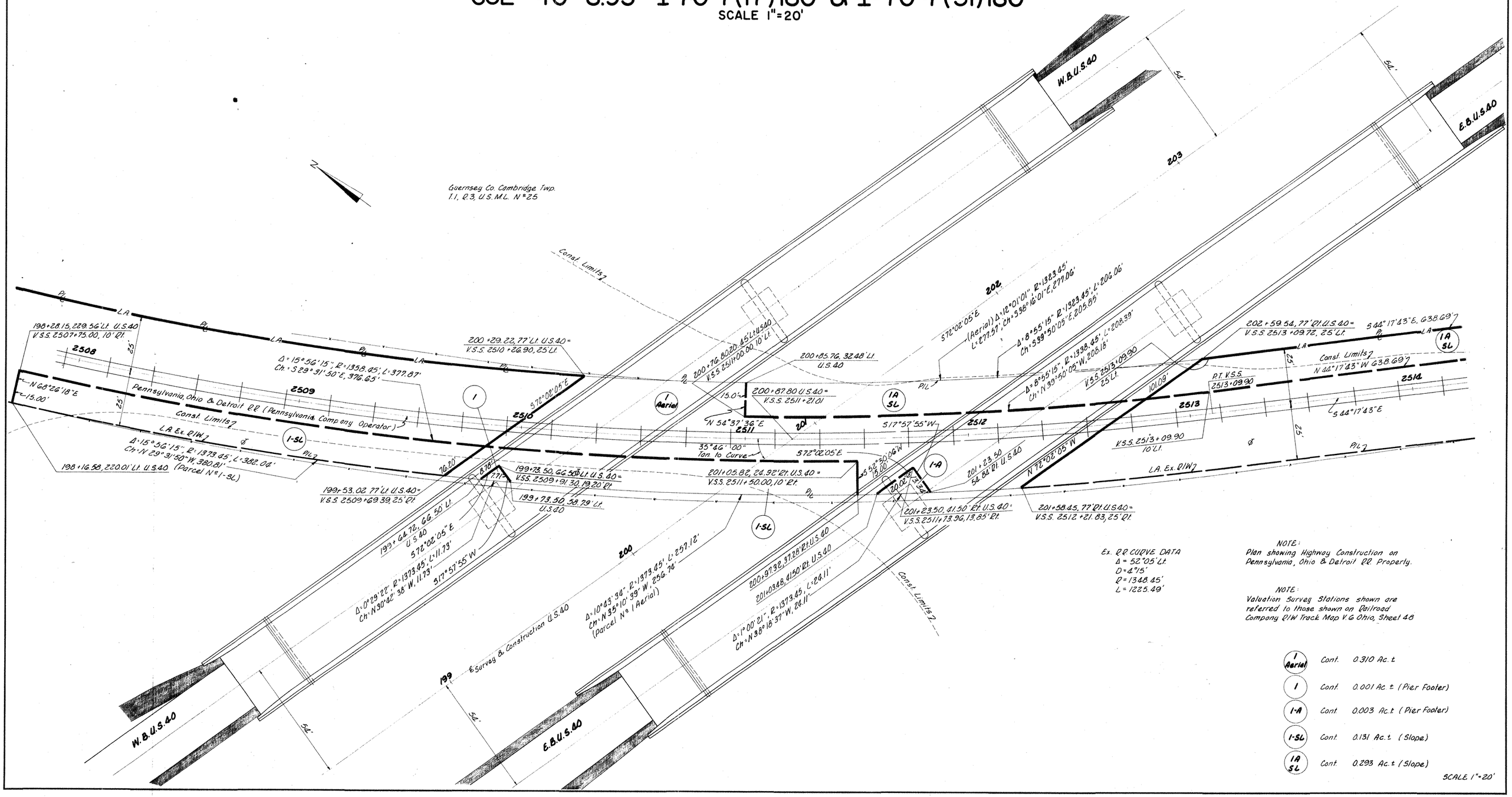
THE PENNSYLVANIA, OHIO & DETROIT RAILROAD COMPANY

GUERNSEY COUNTY, OHIO

PARCEL NOS. 1 AERIAL, 1, 1-A, 1-SL & 1A-SL

GUE-40-8.93 I-70-7(17)180 & I-70-7(31)180

SCALE 1"=20'



NOTE:
Plan showing Highway Construction on Pennsylvania, Ohio & Detroit RR Property.

NOTE:
Valuation Survey Stations shown are referred to those shown on Railroad Company R/W Track Map V.G. Ohio, Sheet 48

1 Aerial	Cont.	0.310	Ac. ±
1	Cont.	0.001	Ac. ± (Pier Footer)
1-A	Cont.	0.003	Ac. ± (Pier Footer)
1-SL	Cont.	0.131	Ac. ± (Slope)
1A SL	Cont.	0.293	Ac. ± (Slope)

SCALE 1"=20'

SUPPLEMENTAL R/W

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

250
250

GUERNSEY COUNTY
GUE-40-8.93
PART 1

R/W 32
2012

PROPERTY PLAT

THE PENNSYLVANIA, OHIO & DETROIT RAILROAD COMPANY

GUERNSEY COUNTY, OHIO

PARCEL NOS. 1 AERIAL, 1, 1-A, 1-SL & 1A-SL

GUE-40-8.93 I-70-7(17)180 & I-70-7(31)180

SCALE 1"=50'

FLOYD FILLMAN JR.
ROMAINE FILLMAN
D.B. 221, P. 295 8-8-53

Guernsey Co. Cambridge Twp.
U.S.M.L. Nos. 25 & 26 T.1, R.3, U.S.M.L.

EX. RR CURVE DATA
Δ = 52°05' Lt.
D = 4°15'
R = 1348.65'
L = 1225.49'

BERTHA MAY FOGLE, ET AL
D.B. 131, P. 437 2-26-22
D.B. 228, P. 460 9-27-55

MAIN E.U.S. 40
PROPOSED CURVE DATA
P.I. = 211+11.58
Δ = 17°23'42"
D = 1°28'00"
R = 3906.53'
L = 1186.03'
T = 597.61'

P.C. 205+13.97

CREEK

WILLS

CHAPMAN RUN

Survey & Construction
S 72° 02' 05" E

Sta. 200+87.80 U.S. 40 =
V.S.S. 2511+21.01

35° 46' 00"
Tang. to Curve

N 44° 17' 43" W, 638.69'
S 45° 42' 17" E, 638.69'

PT. 2513+03.80

PENNSYLVANIA OHIO AND DETROIT RAILROAD (PENNSYLVANIA COMPANY OPERATOR)

L.A.-Ex. R/W

Const. Limits

207+08.62
326.94' Rt.

M.L. 25
M.L. 26

ERNEST E. GAY
MABEL NOBLE GAY
D.B. 200, P. 83 3-23-46

202+15
312.50' Rt.

206+10
326.80' Rt.

206+95
380.40' Rt.

206+40
389.00' Rt.

Ex. Channel Easement

207+90.32, 398.54' Rt. U.S. 40 =
V.S.S. 2519+48.59, 10' Lt.

207+97.51 U.S. 40
385.79' Rt.
N 45° 42' 17" W, 15.00'

NOTE
Plan showing Highway Construction on Pennsylvania, Ohio & Detroit R.R. Property.

NOTE
Valuation Survey Stations shown are referred to those shown on Railroad Company R/W Track Map V.G. Ohio, Sheet 48.

(45 LA) Acquired with GUE-40-8.36 Project

(45 X) Acquired with GUE-40-8.36 Project

(1 Aerial)	Cont.	0.910 Ac. ±
(1)	Cont.	0.001 Ac. ± (Pier Footer)
(1-A)	Cont.	0.003 Ac. ± (Pier Footer)
(1-SL)	Cont.	0.131 Ac. ± (Slope)
(1A SL)	Cont.	0.293 Ac. ± (Slope)

SUPPLEMENTAL R/W