I-1105(25)

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

1/89

MEDINA COUNTY
MED-1-10.09

520

LIMITED ACCESS

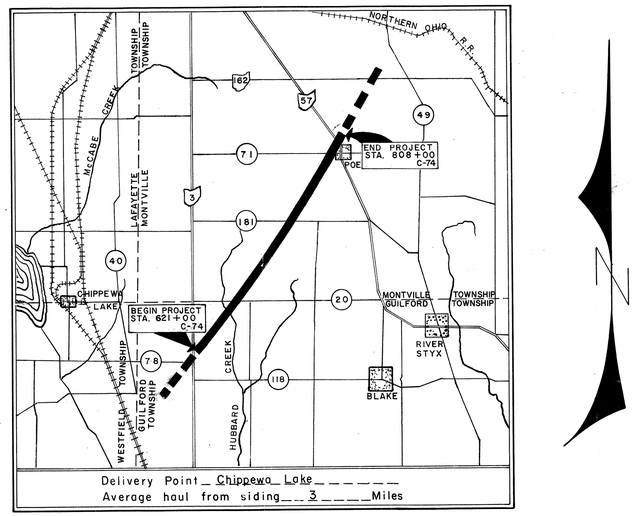
This improvement has been declared a limited access highway or freeway by action of the Director of Highways in accordance with the provisions of Section-5511.02, Revised Code of Ohio, and is especially designed for through traffic.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
MED-1-10.09
MEDINA COUNTY
GUILFORD & MONTVILLE TOWNSHIPS

CONVENTIONAL SIGNS

County Line
Township Line
Township Lot Line
Center Line
Fence Line
Guard Rail
Ditch Line
Railroad
Power Poles
Telephone Poles
Trees

INDEX OF SHEETS



LOCATION MAP

SCALE OF MILES
1 0 1 2 3

Ohio Fuel Gas Force Account Work, Sheet No. 183 & 184

For Utility Information See Sheet No. 1, 11, 15, 182, 183, 184 & 185

LINE DATA

Begin Project	Sta. 621+00	
End Project	Sta 808+00	
Net Length of Project	18,700.00 Lin. Ft.	or 3.54 Miles
Begin Work	Sta. 620+50	
End Work	Sta. 808+50	
Net Length of Work	18,800.00 Lin. Ft.	or 3.56 Miles
Add for Approaches (See Sheet No. 8)	7,010.96 Lin Ft.	
Total Length of Work	25,810.96 Lin Ft.	or 4.89 Miles

Reviewed and Approved _____ Engineer of Traffic
Date 1-1-57

Portion to be improved
State Roads
Other Roads
Future Construction

SCALE

Plan 1"=50'
Profile: Horizontal 1"=50'
Profile: Vertical 1"= 5'

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 of the highway to traffic and that provisions for the maintenance and safety of traffic will be as set forth on the plans and estimates.

Approved R. J. Lehman
Date 11-12-57 Chief Engineer, Interstate Projects

Approved G. D. Makeever
Date 11-20-57 Deputy Director, Planning and Programming

Approved P. E. Masheter
Date 11-14-57 Deputy Director, Design and Construction

Approved _____
Date First Assistant Director

Approved George Thomaya
Date 11/20/57 Acting Director of Highways

JUN 9 1961 GROUND PHOTOLAB

JUN 9 1961 GROUND PHOTOLAB

REVISED 3-19-58 - DWG. Nº 133, 134, 136 THRU 138, 140 142 THRU 145, 147, 148, 150, 153 THRU 158, 160 162, 163, 168 THRU 171, AND 175. Fº Nº 13

Sheet Nº's 6, 7, 11, 12, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 41, 43, 44, 51, 55 THRU 59, 61, 62, 65, 67, 71, 75, 83 THRU 86, 89, 90, 91, 94 THRU 99, 102, 104, 105, 111, 112, 120, 125, 128, 129 - REVISED 31 MARCH 1958.

Sheet Nº's 12A, 105A & 105B, 131 & 132 - 31 March 1958
Sheet 168 revised 5-20-58

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED

Division Engineer _____ Date 1-1

PREPARED AND RECOMMENDED BY
BEISWENGER AND HOCH
Consulting Engineers, Akron, Ohio

File No. MED-1-10.09
Date of Letting _____ 19__
Contract No. _____

Supplemental Prints of Standard Construction Drawings							
HW-A & B	7-15-57	I-8 CB No.4	6-1-57	S-27 P.C. 4	1-4-54	RB-1-55	3-1-55
HW-C	7-15-57	I-8 CB No.5	6-1-57	G-7.07	6-1-56	AR-1-57	4-9-57
DR-1	1-3-55	T.J.	5-1-56	F-1	4-1-57	CSB-2-56 SH 2 & 3	12-3-56
RI-1	1-3-55	S-27 P.C. 3	2-20-45	SP 53	7-21-53		
T-35	1-2-56	I-1, 2, 3, 4 & 5	2-20-45	B-T-50-70-71E. No. 1	10-1-47		
L-1	4-1-50	I-14G	1-22-52	I-8CB 2-2A & B	8-1-56		
L-3	4-1-50	I-15 No. 1	8-1-55	I-8M.H. No. 1-A	1-3-55		
L-3-A	4-1-50	I-8 M.H. No. 1	5-1-52				
L.J. No. 1	7-1-55	I-15 No. 2-A	6-1-57				
B-T-71R	3-2-53	I-15 No. 2-B	6-1-57				

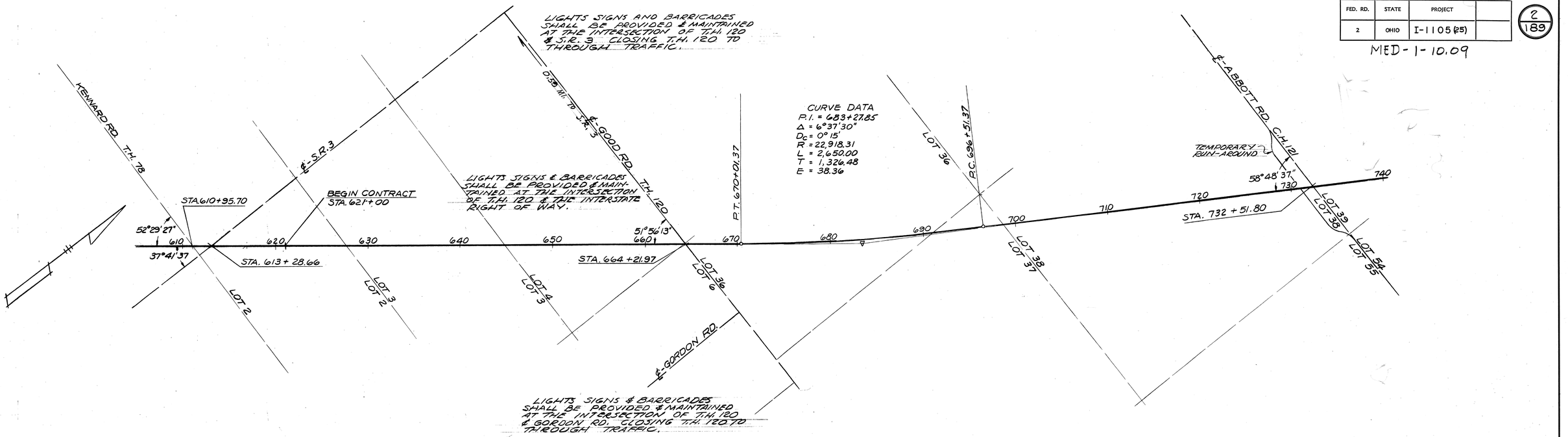
Supplemental Specifications		
E-101		1-1-57
B-119	REV.	8-11-57
5		6-8-55
18	REV.	2-6-57
S-114	REV.	8-1-57
I-125	REV.	11-6-57
I-127	REV.	9-18-57

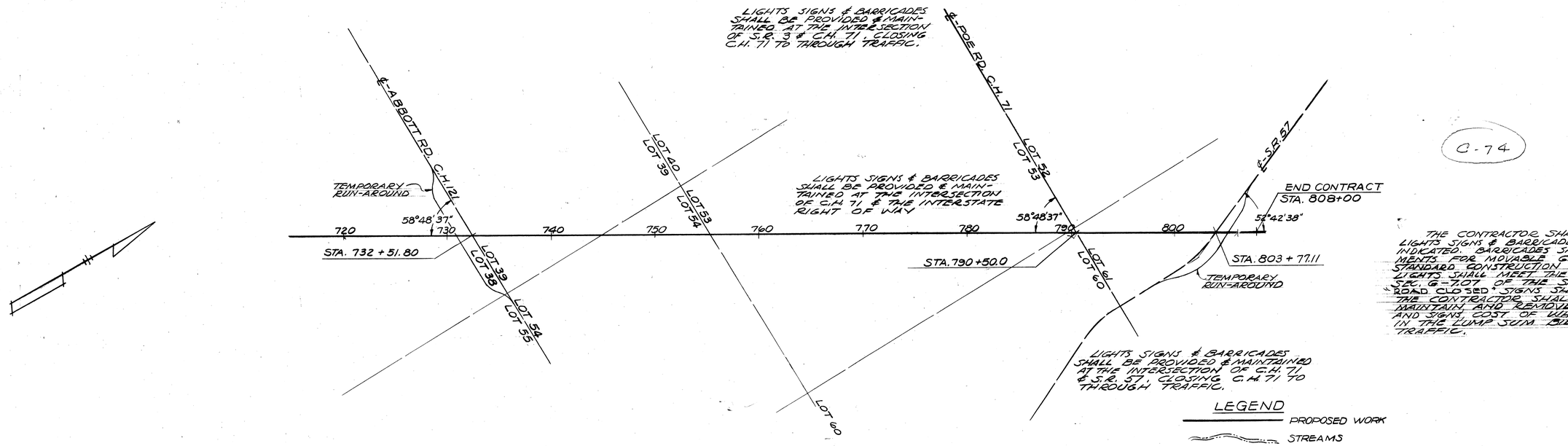
D 2-21-58 FWL

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

MED-1-10.09

2/189





C-74

CONTRACT #4

LOCATION MAP

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

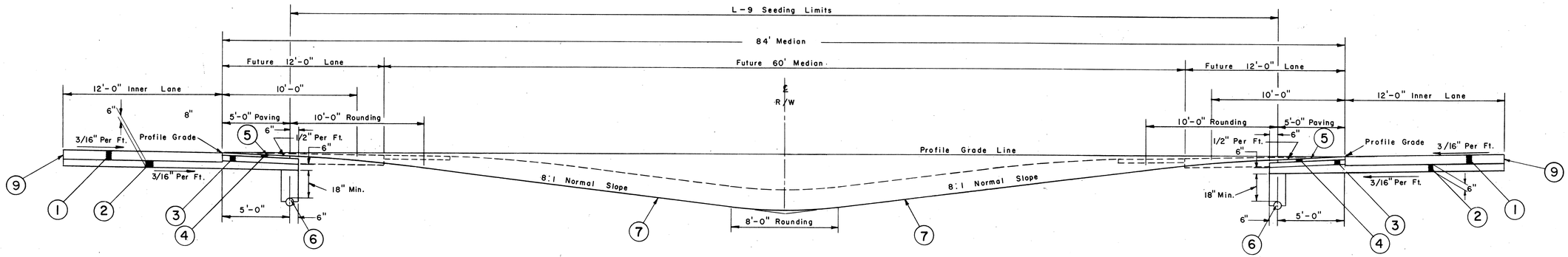
3
189

MED-I-10.09

TYPICAL SECTIONS

TYPE · T-71

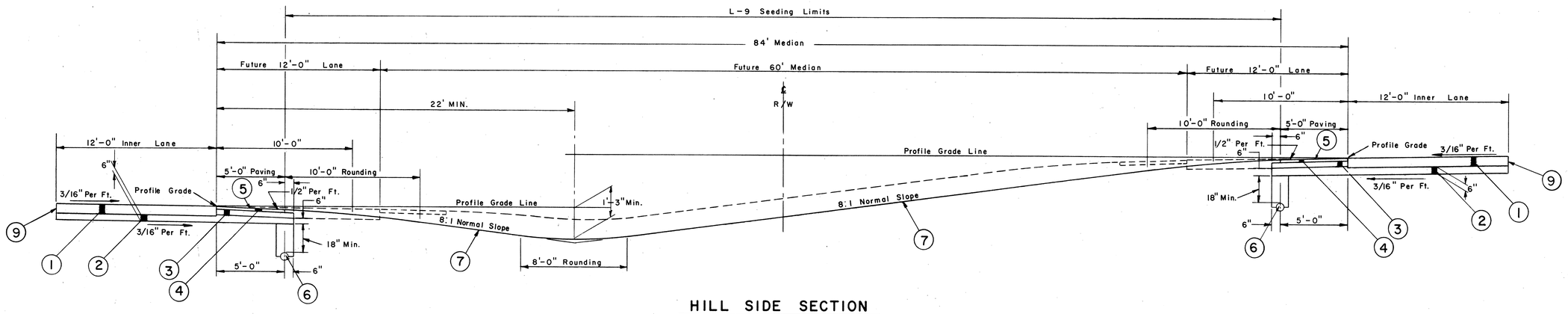
Scale: 1/4" = 1'-0"



NORMAL SECTION

LIMITING STATIONS

Sta. 621+00 to Sta. 804+50.51 18,350.51 Lin Ft.



HILL SIDE SECTION

LIMITING STATIONS

Sta. 804+50.51 to Sta. 808+00 349.49 Lin. Ft.

(1) T-71 10" Reinforced Portland Cement Concrete Pavement
(2) I-22 Subbase (Variable Depth)
(3) I-18 5" Stabilized Crushed Aggregate Shoulders & Approaches
(4) B-33 3" Bituminous Macadam Base Course
(5) T-31 Bituminous Surface Treatment (See Proposal)
(6) I-4 6" Pipe Underdrain
(7) L-9 Seeding and Protecting Roadway Areas (As Per Plan)
(9) Standard Longitudinal Joint

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

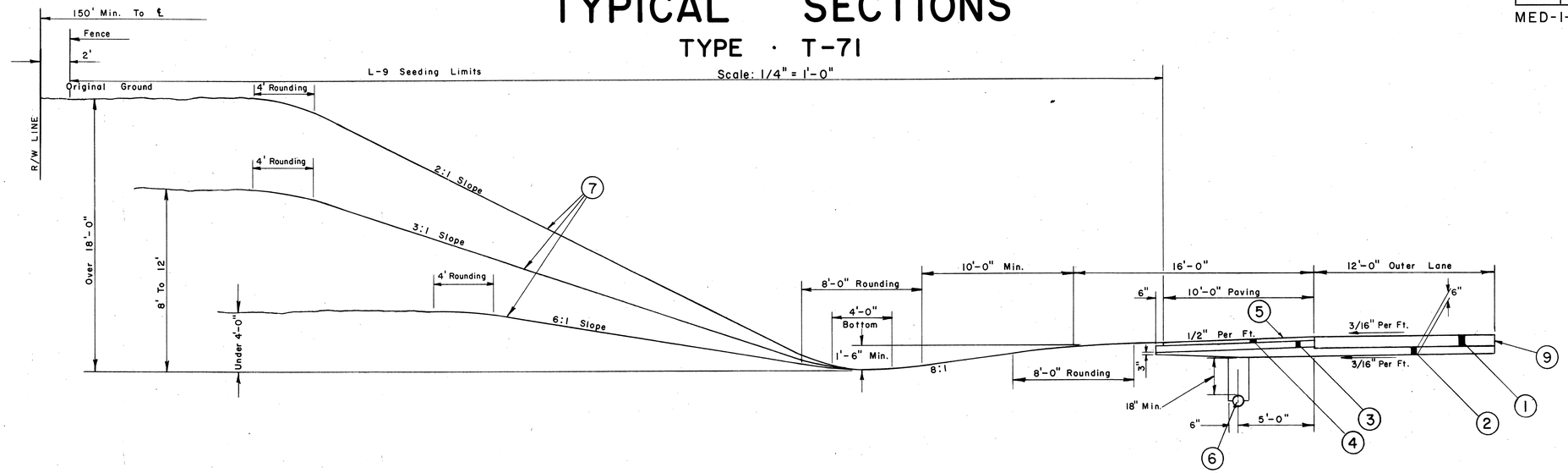
4/189

MED-1-10.09

TYPICAL SECTIONS

TYPE · T-71

Scale: 1/4" = 1'-0"



NORMAL SECTION

(1) T-71 10" Reinforced Portland Cement Concrete Pavement
(2) I-22 Subbase (Variable Depth)
(3) I-18 5" Stabilized Crushed Aggregate Shoulders & Approaches
(4) B-33 3" Bituminous Macadam Base Course
(5) T-31 Bituminous Surface Treatment (See Proposal)
(6) I-4 6" Pipe Underdrain
(7) L-9 Seeding and Protecting Roadway Areas (As Per Plan)
(9) Standard Longitudinal Joint

CUT SECTION (Unless Otherwise Shown On Cross-Sections)

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(23)	

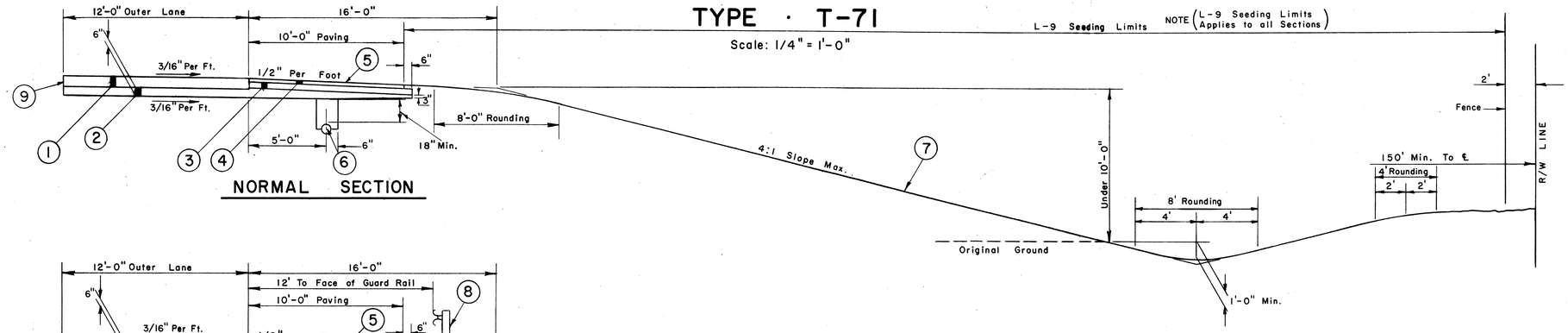
5
189

MED-I-10.09

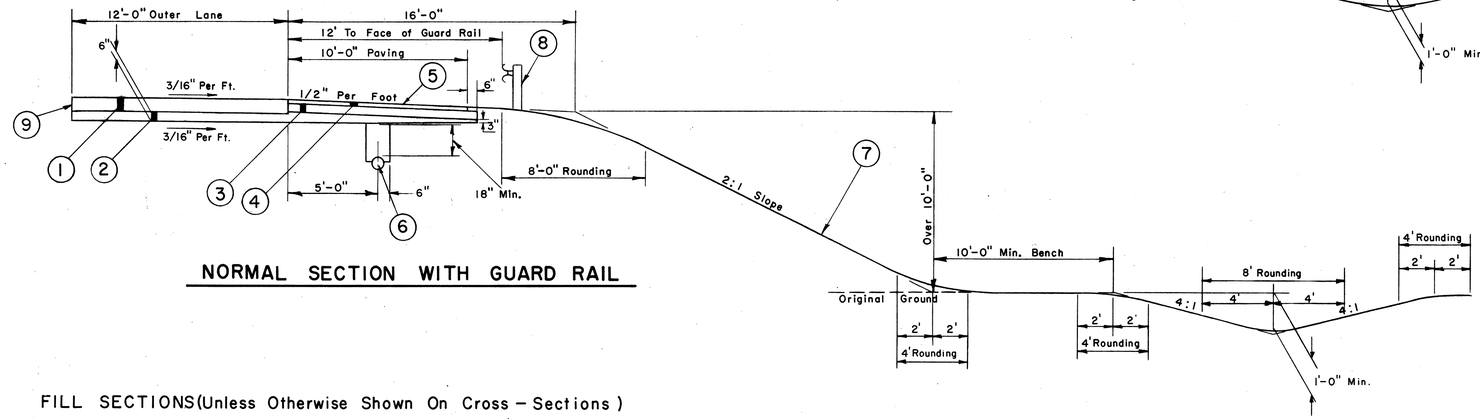
TYPICAL SECTIONS

TYPE · T-71

Scale: 1/4" = 1'-0"



NORMAL SECTION



NORMAL SECTION WITH GUARD RAIL

FILL SECTIONS(Unless Otherwise Shown On Cross – Sections)

1. T-71 10" Reinforced Portland Cement Concrete Pavement
2. I-22 Subbase (Variable Depth)
3. I-18 5" Stabilized Crushed Aggregate Shoulders & Approaches
4. B-33 3" Bituminous Macadam Base Course
5. T-31 Bituminous Surface Treatment (See Proposal)
6. I-4 6" Pipe Underdrain
7. L-9 Seeding and Protecting Roadway Areas (As Per Plan)
8. I-15 Guard Rail
9. Standard Longitudinal Joint

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

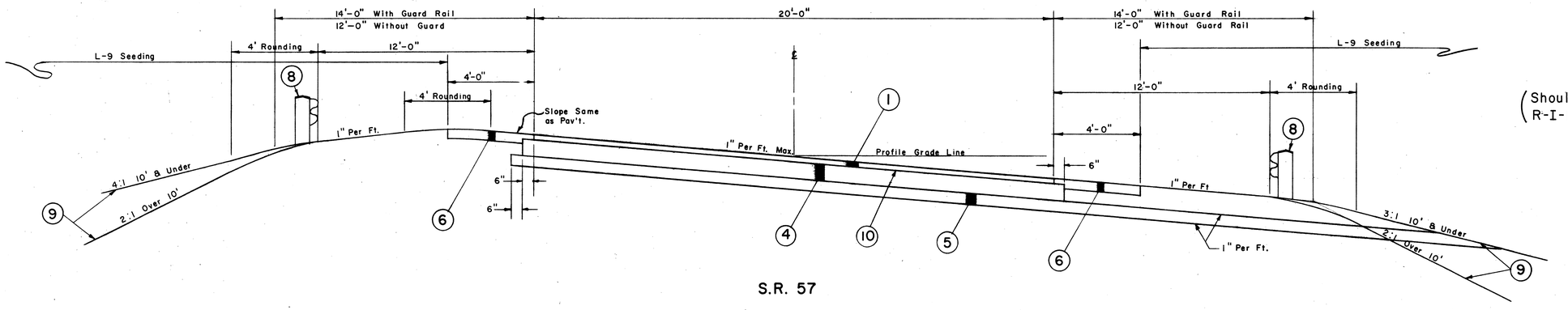
6/189

MED-1-10.09

TYPICAL SECTIONS

TYPE-T-35 & T-32

Scale: 3/8" = 1'-0"



(Shoulders & Ditches as per R-I-1, unless otherwise noted.)

S.R. 57

LIMITING STATIONS

Sta. 43+06.66 to Sta. 48+29.28	522.62 Lin. Ft.	
Sta. 51+81.47 to Sta. ~~58+28.96~~ 58+27.56	~~647.49~~ 646.45 Lin. Ft.	
Total	~~1170.11~~ 1169.11 Lin. Ft.	

(1) T-35 2" Asphaltic Concrete Surface Course Type A (70-85)

(4) B-119 6" Crushed Aggregate Base Course

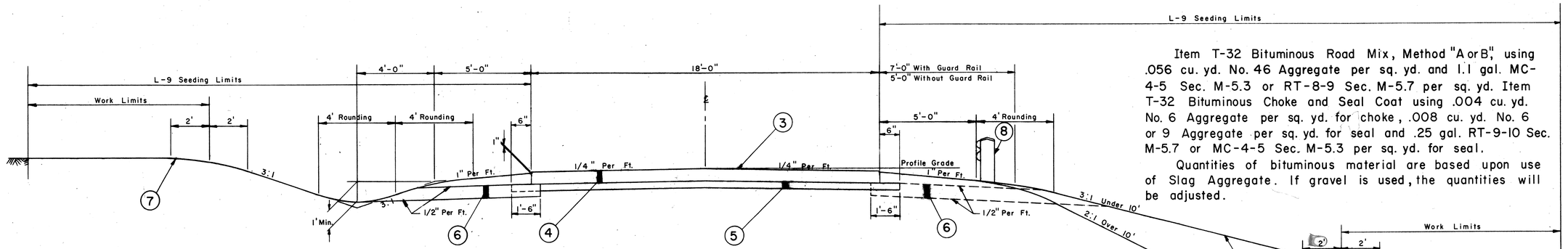
(5) I-22 6" Subbase

(6) I-18 5" Stabilized Crushed Aggregate Shoulders

(8) I-15 Guard Rail

(9) L-9 Seeding & Protecting Roadway Areas

(10) T-30 Bituminous Prime Coat
Sec. M-5.2 RC-1 or RC-2;
Sec. M-5.3 MC-0 or MC-1; Sec. M-5.7
RT-2 or RT-3 applied at the rate of
0.35 gal. Isq. yd.



Item T-32 Bituminous Road Mix, Method "A or B", using .056 cu. yd. No. 46 Aggregate per sq. yd. and 1.1 gal. MC-4-5 Sec. M-5.3 or RT-8-9 Sec. M-5.7 per sq. yd. Item T-32 Bituminous Choke and Seal Coat using .004 cu. yd. No. 6 Aggregate per sq. yd. for choke, .008 cu. yd. No. 6 or 9 Aggregate per sq. yd. for seal and .25 gal. RT-9-10 Sec. M-5.7 or MC-4-5 Sec. M-5.3 per sq. yd. for seal.

Quantities of bituminous material are based upon use of Slag Aggregate. If gravel is used, the quantities will be adjusted.

(3) T-32 Bituminou Road Mix Surface Course Method A or B (135 lbs. Sq. Yd.)

(4) B-119 8" Crushed Aggregate Base Course

(5) I-22 4" Subbase

(6) I-9 Stone Underdrain

(7) L-9 Seeding & Protecting Roadway Areas

(8) I-15 Guard Rail

MEDINA C.H. 71

LIMITING STATIONS

Sta. 44+75.00 to Sta. 48+45.38	370.38 Lin. Ft.	
Sta. 51+54.62 to Sta. 57+50.00	595.38 Lin. Ft.	
Total	965.76 Lin. Ft.	

REVISED: 31 MAR. '58

TYPICAL SECTIONS

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

7
189

MED-1-10.09

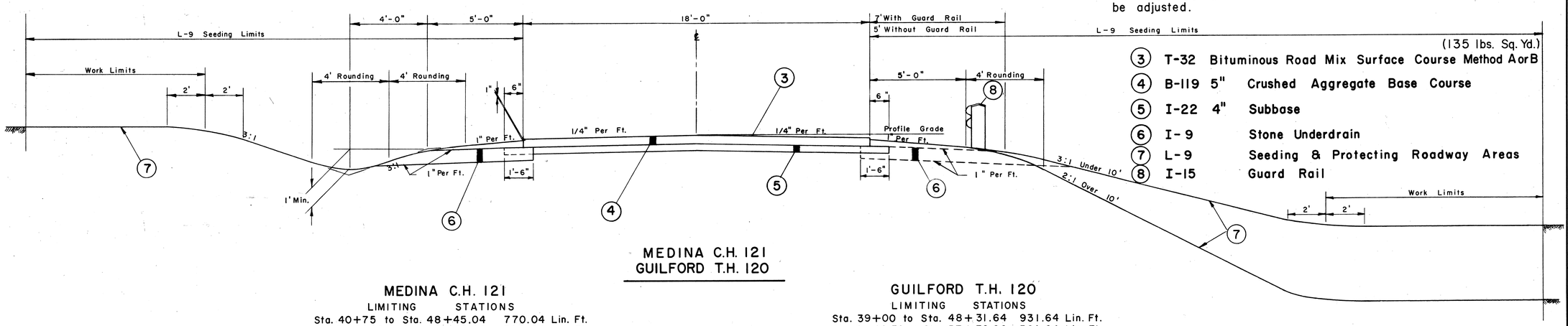
TYPICAL SECTIONS

TYPE-T-35 & T-32

Scale: 3/8" = 1'-0"

Item T-32 Bituminous Road Mix, Method "A or B", using .056 cu. yd. No. 46 Aggregate per sq. yd. and 1.1 gal. MC-4-5 Sec. M-5.3 or RT-8-9 Sec. M-5.7 per sq. yd. Item T-32 Bituminous Choke and Seal Coat using .004 cu. yd. No. 6 Aggregate per sq. yd. for choke, .008 cu. yd. No. 6 or 9 Aggregate per sq. yd. for seal and .25 gal. RT-9-10 Sec. M-5.7 or MC-4-5 Sec. M-5.3 per sq. yd. for seal.

Quantities of bituminous material are based upon use of Slag Aggregate. If gravel is used, the quantities will be adjusted.



MEDINA C.H. 121
GUILFORD T.H. 120

MEDINA C.H. 121

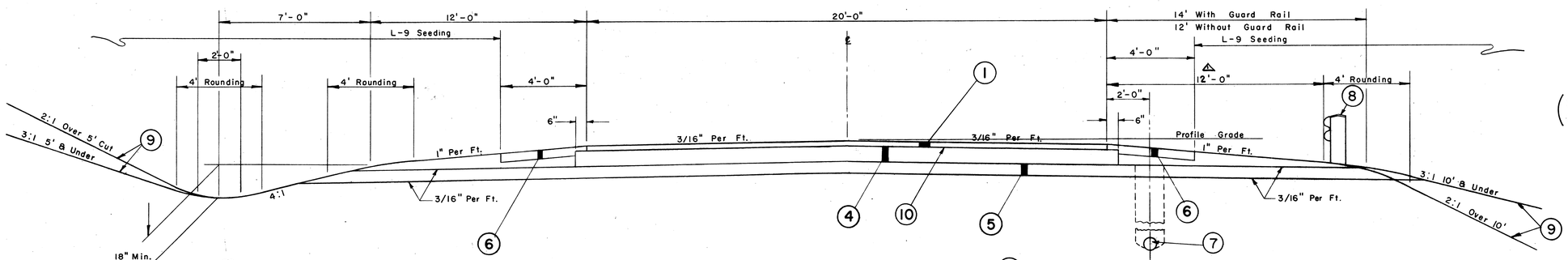
LIMITING STATIONS	
Sta. 40+75 to Sta. 48+45.04	770.04 Lin. Ft.
Sta. 51+54.96 to Sta. 57+45.00	590.04 Lin. Ft.
Total	1,360.08 Lin. Ft.

GUILFORD T.H. 120

LIMITING STATIONS	
Sta. 39+00 to Sta. 48+31.64	931.64 Lin. Ft.
Sta. 51+68.36 to Sta. 57+30.00	561.64 Lin. Ft.
Total	1,493.28 Lin. Ft.

(135 lbs. Sq. Yd.)

3 **T-32** Bituminous Road Mix Surface Course Method A or B
4 **B-119 5"** Crushed Aggregate Base Course
5 **I-22 4"** Subbase
6 **I-9** Stone Underdrain
7 **L-9** Seeding & Protecting Roadway Areas
8 **I-15** Guard Rail



(Shoulders & Ditches as per R-I-1, unless otherwise noted.)

1 **T-35** 2" Asphaltic Concrete Surface Course Type A (70-85)

4 **B-119 6"** Crushed Aggregate Base Course

5 **I-22 6"** Subbase
6 **I-18 5"** Stabilized Crushed Aggregate Shoulders
7 **I-4 6"** Underdrain (Sta. 40+50 to Sta. 44+00)
8 **I-15** Guard Rail
9 **L-9** Seeding & Protecting Roadway Areas

10 **T-30** Bituminous Prime Coat Sec. M-5.2 RC-1 or RC-2; Sec. M-5.3 MC-0 or MC-1; Sec. M-5.7 RT-2 or RT-3 applied at the rate of 0.35 gal. /sq. yd.

S.R. 57

LIMITING STATIONS		
Sta. 40+25 to Sta. 43+06.66	281.66 Lin Ft.	
Sta. ~~58+28.96~~ to Sta. 58+50	~~21.04~~ Lin Ft. =	22.04
C 58+27.96 Total	302.70 Lin Ft.	

△ REVISED: 31 MAR. '58

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

8
189

MED-I-10.09

GENERAL NOTES

GUARD RAIL POST ANCHORS:

At locations where pier footings interfere with installation of full length guard rail posts, short posts shall be provided and shall be anchored in accordance with the detail shown elsewhere in the plans. Cost of providing and installing necessary anchors shall be included in the unit price bid per lineal foot for guard rail.

GUARD RAIL PARAPET ANCHOR:

Cost of providing and installing anchor for connecting deep steel beam guard rail to bridge parapet is included in the bridge quantities for payment. Contractor shall provide one additional guard rail post in the center of the first panel of deep steel beam guard rail where anchored to the parapet, cost of which shall be included in the unit price bid per lineal foot of guard rail.

EROSION CONTROL AT BRIDGES:

Sodded channels shall be provided at ends of bridges where required by the plans. Cost of all work necessary to complete the item shall be included in the unit price bid per square yard for "Item L-10, Sodding for Special Berm and Slope Protection."

SUBGRADE COMPACTION:

The area of compacted subgrade to be paid for includes the main pavements, paved shoulders and hard surfaced cross road pavements.

STONE UNDERDRAIN NO. 2:

No.2 Stone Underdrain has been estimated for cross road drainage at 50 feet intervals on each side where I-4 drainage is not provided. They shall be placed not over 50 feet apart and staggered. This quantity is to be used in its entirety.

EROSION CONTROL AT HEADWALLS:

An 18 inch wide strip of sod shall be placed along the back and both ends of each standard headwall, Type HW-A, B, and C, to prevent erosion. The quantity of sodding required to prevent erosion at the headwalls is included in each of the culvert estimated quantities.

REPLACEMENTS:

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

PLUGGING GAS WELLS:

See Note In Proposal.

CONSTRUCTION LAYOUT STAKES:

See Note In Proposal.

ITEMS L-10 SODDING, I-10 RIP RAP AND I-14 PAVED GUTTER:

These items are provided on the plans for erosion control. The Engineer shall check and make adjustments in location and quantities for these items where indicated by field conditions during construction.

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 AND PROTECTING:

Quantities provided for seeding the main facility are calculated for all soil areas between right-of-way fence lines. On cross roads or other unfenced areas, seeding has been calculated for all soil areas located between the work limits, including runarounds. Seed shall be sown at the rate of 3 pounds per 1000 square feet except as otherwise noted in the plans. Seeding formula for all seeded areas shall be in accordance with the following:

70% Kentucky 31 Fescue	5% Redtop
20% Kentucky Bluegrass	5% Alsike Clover

EXISTING DRAINAGE:

It is anticipated that some existing pipe drains other than those carrying domestic waste will be intercepted and severed by the proposed roadway and channel excavations. In any such case a section of the pipe so severed will be removed to make way for the necessary excavation. If the remaining pipe flows away from the excavation and the plans do not indicate that it is to be used as an outlet, it shall be blocked effectively at its upper end in accordance with the General Notes. If the pipe flows toward the ditch excavation the tile shall be preserved and a proper new outlet provided. New tile ordered by the Engineer shall be paid for at the unit price bid for Pipe Outlets for Roadway Drainage, Item I-3. The following quantities have been set up in the General Summary to be used for the above purpose as directed by the Engineer. The quantity and location of any additional Item I-2 or I-3 Roadway Drainage shall be recorded and submitted in Final Estimate.

I-2 8" Class "A" Storm Sewer Under Pavement & Approaches M-6.5(b), M-6.8(b)-500 Lin. Ft.
I-2 12" Class "A" Storm Sewer Under Pavement & Approaches M-6.5(b), M-6.8(b)-500 Lin. Ft.
I-3 6" Pipe For Roadway Drainage — 600 Lin. Ft.
I-3 8" Pipe For Roadway Drainage — 600 Lin. Ft.
I-3 8" Pipe Outlets For Roadway Drainage M-6.4(a)-400 Lin. Ft.
I-3 12" Pipe Outlets For Roadway Drainage M-6.4(a)-400 Lin. Ft.
I-8 No. 1 Side Ditch Inlet (Modified) — 6 Required
I-3 10" Pipe For Roadway Drainage — 400 Lin. Ft.

EXISTING FLEXIBLE PAVEMENT:

Within the limits of construction where the existing flexible pavement will have less than six (6") inches of fill placed upon it, the pavement shall be thoroughly scarified for its full depth, mixed with sufficient soil and properly recompacted to insure the elimination of any plane of separation between it and the embankment placed thereon. Outside the limits of construction the existing flexible pavement shall be thoroughly scarified, mixed with sufficient soil and shaped to fit the surrounding terrain in such a manner as to insure the growth of seed planted thereon. Payment for all the above shall be included in the unit price bid for Roadway Excavation.

CENTERLINE REFERENCE MONUMENTS:

Monuments shall be constructed of Class C Concrete, cast-in-place in a circular hole, eight inches in diameter and forty-four inches in depth. Top of concrete shall be finished at a depth of two inches below ground level and the upper six inch portion of the concrete shall be formed. A 16d nail shall be embedded in the wet concrete as directed by the engineer to mark centerline and station. Monuments shall not be placed until seeding is completed.

DRAINAGE OF SUBBASE MATERIAL:

Where the subbase material is drained by I-9 Stone Underdrain or by extensions through the shoulders to the fill slope or the ditch line, the Contractor shall finish, seed and mulch the slopes so as not to impede drainage of the subbase material. The actual area of the outcrop of the subbase material or I-9 Underdrain shall not be seeded.

LINE DATA CALCULATIONS FOR APPROACHES:

Length of Work on Approaches and Run-arounds:

Medina County Highway 121
Begin work - Station 40+75
End work — Station 58+49.96
Length of work — 1774.96 Lineal feet

Guilford Township Highway 120
Begin work - Station 39+00
End work — Station 58+00
Length of work — 1900 Lineal feet

Medina County Highway 71
Begin work - Station 44+75
End work — Station 57+50
Length of work — 1275 Lineal feet

Ohio State Route 57
Begin work - Station 39+25
End work — Station 59+86
Length of work — 2061 Lineal feet

Total Length of Work on Approaches = 7010.96

I-22 UNDER APPROACH SLABS:

The area between the bottom surface of the approach slab and the subgrade shall be back filled with item I-22 subbase.

R.A.Cox

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

9
189

MED-1-10.09

GENERAL NOTES

ROAD NAME: SIGN:

All County, Township, City or Village road or street name signs that will be disturbed by the construction shall be carefully removed and stored by the Contractor for disposal by their respective owners. Payment for this operation shall be included in the unit price bid for Roadway Excavation.

FIELD OFFICE:

The Contractor shall provide a suitable Field Office for the exclusive use of the State Employees, in accordance with Sec. S-0.01 (b), having a minimum of 500 square feet of floor space. The Contractor shall have a telephone installed and maintained in the Field Office during the construction of this project. Contractor shall also install wiring and outlets suitable for connecting to office equipment, and provide 110 volt alternating current during the construction of this project.

SIGHT DISTANCE:

Basis for measuring sight distance shall be 4.0 feet for height of eye and zero feet for height of object. The minimum stopping sight distance on this project is 600 feet.

UTILITIES:

The Contractor shall notify at least 48 hours 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 shown on these plans. Any and all work required for public or private utilities will be done by and at the expense of their respective owners, unless otherwise noted on these plans.

ROUNDING OF CORNERS ON CROSS SECTIONS:

The rounded corners, as shown on Standard Dwg. R1-1, apply to all cross sections unless otherwise shown on the Typical Sections.

R/W MONUMENTS, FEDERAL PROJECT MARKERS AND SECTION MARKERS:

Existing R/W Monuments, Bench Marks, Federal Project Markers and Section 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 Construction Crew.

ELEVATION DATUM:

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

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.

UNDERGROUND UTILITIES:

The locations 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

REMOVAL OF TREES AND STUMPS:

The number and size of trees and stumps shown below for removal under the construction as detailed on these plans, are as nearly correct as available information permits. The State of Ohio will not be responsible for any variations found during construction. The lump sum bid for Item E-9, Removal of Trees and Stumps, shall constitute full payment for this item, and no additional compensation will be allowed. All trees and stumps within the limits of the limited access right of way on the main line and the work limits on the crossroads and channel improvement shall be removed unless otherwise directed by the Engineer.

The number and size of trees and stumps are estimated below:

12" To 18" - 937 Trees	24" To 30" - 30 Trees
18" To 24" - 222 Trees	30" To 42" - 18 Trees

FLARING GUARD RAIL AT BRIDGES:

Guard rail on cross roads shall be flared to meet the bridge railing in such a manner that the change in alignment of the guard rail shall not exceed 1:20.

I-22 SUBBASE GRADING A AND B AS PER PLAN:

Material for this item shall meet the requirements for Item I-22 grading A or B, except that for both gradings the percent passing the No. 200 sieve shall not exceed ten.

SPECIAL DITCHES:

For special ditch grades, see Cross Sections.

TILE FOR SUBGRADE DRAINAGE:

10 lin. ft. of 8" Corrugated Metal Pipe, Sec. M.6.4 (a), shall be furnished and placed by the contractor, in manholes, catch basins and inlets for each subgrade drain, where, and as directed by the Engineer. Payment for each shall be made at the price bid per lineal foot of Pipe Underdrain Outlets.

PIPE:

When bell and spigot pipe is used, any necessary pipe cut-offs will be made at the spigot end of the length of pipe adjacent to the end length. When tongue and groove pipe is used the length of pipe next to the end length shall be cut and butt joint formed with a collar 12" larger than the outside diameter and 12" in length. The cost of the joint and collar shall be included in the Contract Unit Price bid for the pertinent pipe item.

DESIGN SPEED

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

EXISTING WATER WELLS

Dug wells encountered within the work limits shall be filled with rock or granular material. Drilled well casing shall be removed to an elevation approximately three feet below finished grade and covered with a pre-cast concrete slab or a large rock. Prior to construction of embankment contractor shall remove any masonry surrounding a well, within three feet of finished grade. Pumps and other appurtenances shall become the property of the contractor and shall be disposed of by him. The cost of filling or capping of wells shall be included in the unit price bid per cubic yard of Roadway Excavation, Item E-101, for payment.

REMOVAL OF EXISTING HOUSE DRAINS:

The removal of all existing house connections, which includes sanitary, yard, roof, basement or other similar pipe drains within the roadway construction limits shall be classified and paid for as Roadway Excavation, unless otherwise itemized for payment in the plans.

PIPE CONNECTIONS:

Longitudinal pipe lines, where connected to pipe culverts, shall be jointed to culvert pipe specials, Item I-5. The pipe special spur and the initial eight foot length of longitudinal pipe shall be of the same kind and class of pipe as used in the pipe culvert and shall be jointed by means of 6" x 24" concrete collar or metal band. The initial eight feet of longitudinal pipe shall be manufactured as a single unit, with the exception of rigid pipes 18 inches in diameter and smaller, in which case two 4 foot lengths may be shop jointed by means of a reinforced concrete collar strong enough to resist separation of the joint because of backfill loading. All additional cost of providing the culvert pipe and collars in the initial section of the longitudinal pipe shall be included in the unit price bid for the pipe special.

PLUGGING PIPE ENDS:

The upstream 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, flat stone or brick laid in mortar, precast clay or concrete stopper. Payment for the above work shall be included in the price bid for Road Excavation.

HEAVY EQUIPMENT:

The Contractor shall exercise care in the use of heavy equipment over finished work and will be required to remove and replace any completed work destroyed thereby. Culverts shall be backfilled to a height of four feet before loaded earth-moving equipment is permitted to cross the trench. Heavy equipment shall not be operated over any completed layer of embankment, compacted subgrade or sub-base if such operation tends to destroy the soil structure or pipe underdrains; however if such operation cannot be avoided, the Contractor will be required to reduce the size of loads to an extent that damage does not occur.

SUBGRADE COMPACTION FOR DRIVES AND MAIL BOX TURNOUTS:

The subgrade under B-119 or T-70 Material used on drives and mail box turnouts shall be compacted for a depth of six inches (6") to the density requirements of Table III in Item E-1. Payment for subgrade compaction as specified above, shall be included in the unit price bid for Roadway Excavation.

EXCAVATION FOR ITEM B-119:

Excavation for B-119 material used on Side Road Approaches, Mail Box Turnouts and Drives has been included in Earthwork Quantities when same is in "Cut." Where side approaches, mail box turnouts, and drives are in "Fill", excavation for B-119 material shall be made by the contracter at his own expense if he builds the embankment up to finish grade before placing the B-119 material.

NON-RIGID PAVEMENT REMOVAL:

Cost of removing non-rigid pavement is to be included with the price bid for Roadway Excavation.

REMOVAL OF BUILDINGS

Where the plan shows a structure to be removed under Item S-24, the entire building within and without the Right-of-Way shall be removed to ground level and the basement filled.

R.A.Cox

GENERAL NOTES

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

10
189

MED-1-10.09

MAINTAINING TRAFFIC:

Medina County Highway 121

Two way traffic shall be maintained on County Highway 121 during construction of the bridge and approaches. A temporary runaround with a traffic compacted surface course has been provided for this purpose. The runaround shall be removed in accordance with Item S-15, Temporary Runaround.

The temporary runaround will be built to the lines and grades shown on the plans.

Cost of the above, except for furnishing and placing of traffic compacted surface course and chloride, shall be included in Item S-15, Lump Sum, Temporary Runaround.

Estimated Quantities

S-15	Furnishing and Placing Aggregate for Traffic Bound Surface Course	2027 CU. YDS.
S-15	Furnishing and Placing Calcium Chloride or Calcium Magnesium Chloride	40.5 TONS
S-15	Temporary Runaround Road	

Guilford Township Highway 120

Guilford Township Highway 120 shall be closed to traffic during construction of the Bridges & Approaches. The Contractor shall build & maintain Barricades, red lights & Danger signals in accordance with Section G-7.07 of the construction & material specifications and special provisions set forth on Sheet 2.

Medina County Highway 71

Medina County Highway 71 shall be closed to traffic during construction of the Bridges & Approaches. The Contractor shall build & maintain Barricades, red lights & Danger signals in accordance with Section G-7.07 of the construction & material specifications and special provisions set forth on Sheet 2.

MAINTAINING TRAFFIC: (cont.)

Traffic on State Route 57

Two way traffic shall be maintained on State Route 57 during construction of the bridge and approaches. A temporary runaround (Class-B) has been provided for this purpose. The runaround shall be removed in accordance with Item S-15, Temporary Runaround (Class-B).

The temporary runaround will be built to the lines and grades shown on the plans.

Cost of the above shall be included in Item S-15, Lump Sum, Temporary Runaround (ClassB).

MAINTAINING LOCAL TRAFFIC:

The following quantities are included for maintaining local traffic.

T-10	Traffic Compacted Surface Course	300 CY
M-10	Calcium Chloride	6 Ton

SUB-BASE DEPTH:

The Engineer may require the contractor to construct the subbase to a thickness twelve inches greater than normal through areas of frost susceptible silt soils, if encountered in the normal subgrade. In this instance, the contractor should not excavate below normal subgrade until so directed by the Engineer.

PART WIDTH CONSTRUCTION:

Because of the necessity of building certain cross roads under traffic and constructing the pavement part at a time, extreme care shall be taken to prevent the construction of a butt joint on centerline in the base and subbase courses.

This shall be accomplished by building the base and subbase courses, placed with the first portion of the pavement built at least eighteen inches (18") beyond the centerline and by surfacing no closer than eighteen inches (18") to the edge of the above courses. When the second portion of the pavement is built, at least twelve inches (12") of these projecting courses shall be broken down and thoroughly keyed in with the newly placed corresponding courses in the second portion of the pavement. Payment for this operation shall be included in the unit prices bid for the pertinent pavement items.

DRAINING PONDS:

The following ponds shall be drained by the contractor:

Stations 695+00 to 695+60

Station 673+00 on S.R.-1 to Station 55+20 on C.H.-120

The dikes shall be opened in a manner that downstream property owners will not be damaged. After the ponds have been drained, the contractor shall level the dikes to blend with the adjacent terrains and to permit free drainage. Cost of all the above shall be included in the price bid for Item E-101, Roadway Excavation.

QUANTITY SUMMARY – ROADWAY & PAVEMENT

ITEM	SHEET NUMBER 10	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	83	84	90	91	95	96	98	99
E-101			11229	17965	9452	40624	15082	37774	45466	88643	18200	1027	11971	90752	37461	1264	2898	10592	31233	135488	34861	1291	567	1452	519	374	104	137	1075	326
E-101			3466	8667	8667	8667	8667	8667	8667	8667	8667	8667	8667	8667	8667	8667	8667	8667	8667	8667	8667	2667	1913	1173	1768	952	630	1092	2759	2642
E-9																														
E-11			19.8	62.2	106.8	114	164.1	.6	0	0	71.4	430.4	134.4	0	11.2	309.8	27.0	0	0	0	55.1	70.7	140.6	64.9	46.4	28	0	0	145.2	96.4
I-8			1	1	1	1	1	2	2	1	1	2	1	3	2	1	2	2	2	2	2									
I-9																							153	94	128	96	60	94		
I-15																							1287.5	650	512.5	287.5	200	200	787.5	650
I-15			187.5	325		~~400~~ 600	1057.5	17.5				1400	200	425		1000				425	387.5	200								
I-15							50							50						50	50									
T-10	300																													
M-10	6																													
L-9			10311	25777	25716	24666	24666	24666	23555	25777	24666	26277	26888	26888	26333	24777	24666	25777	27777	27000	24666	967	10541	6835	6971	7402	957	1035	14644	9900
L-9			0.93	2.32	2.31	2.22	2.22	2.22	2.12	2.32	2.22	2.36	2.42	2.42	2.37	2.23	2.22	2.32	2.50	2.49	2.22	0.08	0.95	0.65	0.63	0.65	0.05	0.10	1.32	0.89
L-110																							85		80	54			204	
L-10			344	278.5	2348	~~641~~ 895	~~401~~ 455	1472	806	3728	1000	1199	~~283~~ 397	~~156~~ 162	~~440~~ 494	~~1636~~ 1645	109	270	~~1106.6~~ 1251.6	~~723~~ 1723	~~2497~~ 2500	123	299	134		378			~~1038~~ 1083	531
S-15																														
S-15																									1050	977				
S-15																									21	19.5				
I-125			.303	.758	.758	.758	.758	.758	.758	.758	.758	.758	.758	.758	.758	.758	.758	.758	.758	.758	.758	.227								
I-125			.056	.142	.142	.142	.142	.142	.142	.142	.142	.142	.142	.142	.142	.142	.142	.142	.142	.142	.142	.043								
I-127			8	16	16	14	16	16	14	16	16	16	14	16	16	14	16	16	14	16	18	4								
SPECIAL																														
SS-18			800	2000	2000	2000	1811	1857	2000	2000	2001	2000	2002	1732	2000	2000	2002	2000	2000	1849	1506	480								
SPECIAL																														
I-7																							69.7	69.7	65.6	65.6	75.2	75.2	83.7	83.7
I-18			198	494	494	494	494	494	494	494	494	494	494	494	573	494	494	494	494	494	494	148							~~669~~ 83	~~640~~ 68
I-22			603	1510	1510	1510	1510	1510	1510	1510	1510	1510	1510	1510	1589	1510	1510	1510	1510	1510	1510	453	222	136	184	243	74	127	~~49~~ 574	~~47~~ 444
B-33			1333	3333	3333	3333	3333	3333	3333	3333	3333	3333	3333	3333	3803	3333	3333	3333	3333	3333	3333	1000								
B-119																							268	164	222	172	142	245	~~193~~ 303	~~185~~ 250
T-30																													~~418~~ 636	~~400~~ 525
T-31			676	1667	1667	1667	1667	1667	1667	1667	1667	1667	1667	1667	1901	1667	1667	1667	1667	1667	1667	500								
T-31			11	27	27	27	27	27	27	27	27	27	27	27	31	27	27	27	27	27	27	8								
T-31			11	27	27	27	27	27	27	27	27	27	27	27	31	27	27	27	27	27	27	8								
T-32																							2105	1290	1749.5	1352.5	657	1138		
T-32																							479	293	397	307	15	26		
T-32																							107	66	89	68.9	33	58		
T-32																							155	9.5	12.7	9.3	5	8		
T-32																							7.4	4.6	6.0	5.0	2.5	4.0		
T-35																													~~203.5~~ 964	~~295.5~~ 79.6
T-71			2133	5333	5333	5333	5333	5333	5333	5333	5333	5333	5333	5333	5333	5333	5333	5333	5333	5333	5333	1600								

FORCE ACCOUNT WORK

OHIO FUEL GAS - SHEET No

EXCAVATION	647,827	C.Y.
EMBANKMENT + 20%	603,975	C.Y.
WASTE	43,852	C.Y.

ITEM	QUAN.	UNIT	DESCRIPTION
			ROADWAY
E-101	647,827	C.Y.	ROADWAY EXCAVATION SUITABLE MATERIAL
E-101	175,068	S.Y.	COMPACTED SUBGRADE
E-9	LUMP	LUMP	REMOVAL OF TREES & STUMPS
E-11	2063	M-GAL	WATER
I-8	30	EACH	CENTERLINE REFERENCE MONUMENTS
I-9	625	L.F.	No 2 STONE UNDERDRAIN
I-15	4575	L.F.	GUARD RAIL - STEEL BEAM TYPE (DEEP) IN ACC. WITH DWG. I-15 No 2-A
I-15	~~5725~~ 6225	L.F.	GUARD RAIL - STEEL BEAM TYPE (DEEP) IN ACC. WITH DWG. I-15 No 2-B
I-15	200	L.F.	BARRIER RAIL-STEEL BEAM TYPE (DEEP) IN ACC. WITH DWG. I-15 No 2-B
T-10	300	C.Y.	TRAFFIC COMPACTED SURFACE COURSE
M-10	6	TONS	CALCIUM CHLORIDE OR CALCIUM MAGNESIUM CHLORIDE
L-9	529,741	S.Y.	SEEDING & PROTECTING AS PER PLANS
L-9	47.75	TONS	COMMERCIAL FERTILIZER (12-12-12)
L-110	~~338~~ 423	S.Y.	SODDING FOR SPECIAL BERM AND SLOPE PROTECTION
L-10	~~22,141~~ 23,625.1	S.Y.	SODDING AS PER PLAN
S-15	LUMP	LUMP	TEMPORARY RUNAROUND
S-15	2027	C.Y.	FURNISHING & PLACING AGGREGATE FOR TRAFFIC BOUND SURFACE COURSE
S-15	40.5	TONS	FURNISHING & APPLYING CALCIUM CHLORIDE OR CALCIUM MAGNESIUM CHLORIDE
I-125	14.174	MILES	EDGELINES
I-125	2.754	MILES	CENTERLINES
I-127	292	EACH	DELINEATORS
SPECIAL	LUMP	LUMP	PLUGGING GAS WELL STA. 770+50 (SEE PROPOSAL)
SS-18	36040	L.F.	FENCE TYPE "A"
SPECIAL	LUMP	LUMP	CONSTRUCTION LAYOUT STAKING (SEE PROPOSAL)
			PAVEMENT
I-7	588.4	S.Y.	REINFORCED CONCRETE APPROACH SLAB (T = 13 INCH)
I-18	~~10626~~ 9468	C.Y.	STABILIZED CRUSHED AGGREGATE - SHOULDERS & APPROACHES
I-22	~~29,799~~ 30,319	C.Y.	SUBBASE GRADING "A" OR "B" AS PER PLAN
B-33	62797	S.Y.	3" BITUMINOUS MACADAM BASE COURSE
B-119	~~1591~~ 1766	C.Y.	CRUSHED AGGREGATE BASE COURSE
T-30	~~819~~ 1161	GAL.	BITUMINOUS PRIME COAT SEC M-5.2, RC-1-2; SEC M-5.3 MC-0-1 SEC M5.7 RT-2-3
T-31	31416	GAL.	BITUMINOUS SURFACE TREATMENT - BITUMINOUS MATERIAL (SEE PROPOSAL)
T-31	509	C.Y.	BITUMINOUS SURFACE TREATMENT - No 46 AGGREGATE
T-31	509	C.Y.	BITUMINOUS SURFACE TREATMENT - No 6 AGGREGATE
T-32	8292	GAL.	ROAD MIX - BIT. MAT'L. SEC. M-5.3, MC4-5 SEC M-5.7 RT 8-9
T-32	1518	GAL.	SEAL COAT - BIT. MAT'L. SEC. M-5.7, RT9-10, SEC M5.3, MC4-5
T-32	421	C.Y.	No 46 AGGREGATE FOR ROAD MIX
T-32	60	C.Y.	No 6 OR 9 AGGREGATE FOR CHOKE
T-32	29	C.Y.	No 6 AGGREGATE FOR SEAL
T-35	~~499~~ 176	C.Y.	ASPHALTIC CONCRETE SURFACE COURSE TYPE "A" (70-85)
T-71	99729	S.Y.	10" REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
			ROADWAY — CONTINUED
S-24	LUMP	LUMP	REMOVE TWO SHEDS PARCEL No 74-1LA
S-24	LUMP	LUMP	REMOVE TWO STORY FRAME HOUSE PARCEL No 74-11LA
S-24	LUMP	LUMP	REMOVE BARN AND OUT BUILDINGS PARCEL No 74-11LA
S-24	LUMP	LUMP	REMOVE BARN AND SILO PARCEL No 74-12LA
S-24	LUMP	LUMP	REMOVE TWO STORY FRAME HOUSE PARCEL No 74-12LA
S-24	LUMP	LUMP	REMOVE THREE SHEDS PARCEL No 74-12LA
S-24	LUMP	LUMP	REMOVE HOUSE AND GARAGE PARCEL No 74-18LA
S-24	LUMP	LUMP	REMOVE FRAME HOUSE AND OUTBUILDINGS PARCEL No 74-19LA
S-24	LUMP	LUMP	REMOVE SHED PARCEL No 74-24LA

REVISED: 31 MAR '58

Rev. 20 Nov. '57 RB.

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

MED-1-10.09

QUANTITY SUMMARY – DRAINAGE

ITEM	SHEET NUMBER 8	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	83	84	90	91	95	96	98	99	ITEM	QUAN.	UNIT	DESCRIPTION ~DRAINAGE~
E-2				22		44	56					21				18	186		38			125	19	64	7			6			E-2	606	C.Y.	EXCAVATION FOR STRUCTURES
E-3				63		706	1357					1				201	21		10			2836	120	251							E-3	5566	C.Y.	CHANNEL EXCAVATION
E-12																							36	58	345	60	166	321	475	200	E-12	1661	L.F.	PIPE REMOVAL – 15" AND UNDER
E-12																								30					—	—	E-12	30	L.F.	PIPE REMOVAL – OVER 15"
I-2																292															I-2	292	L.F.	36" CLASS "A" STORM SEWER SHAL. OR UND. PVT. M-6.6(a)
I-1																							112	54	74	28	35	70			I-1	374	L.F.	12" PIPE FOR DRIVEWAYS M-6.4(a)
I-2																					294	199									I-2	493	L.F.	33" CLASS "A" STORM SEWER
I-2	500			112	121	56	121	121	112	130	112	121	—	242	112	186	121		121	130	56									I-2	2474	L.F.	8" CLASS "A" STORM SEWER-UNDER PAVEMENT M-6.5(b), M-6.8(b)
I-2																159															I-2	159	L.F.	15" CLASS "A" STORM SEWER M-6.5(a), ,M-6.8(a)
I-2						202				176		30	—	92		82	82		92							116					I-2	932	L.F.	15" CLASS "A" STORM SEWER-SHAL OR UND. PVT. M-6.5(b) M-6.8(b)
I-2				48	934					948	48																				I-2	1978	L.F.	18" CLASS "A" STORM SEWER-SHAL. OR UND. PVT. M-6.4(c), M-6.5(b), M-6.8(b)
I-2					86		105	92						583						184	94	229									I-2	1373	L.F.	18" CLASS "A" STORM SEWER-SHALLOW M-6.5(b), M-6.8(b)
I-2														81																	I-2	81	L.F.	21" CLASS "A" STORM SEWER-SHALLOW M-6.5(b), M-6.8(b)
I-2																																		
I-2														72																	I-2	72	L.F.	21" CLASS "A" STORM SEWER M-6.4(c)
I-2									948	48				167						641	698										I-2	2502	L.F.	27" CLASS "A" STORM SEWER M-6.6(a)
I-2						175	104															55									I-2	344	L.F.	18" CLASS "A" STORM SEWER M-6.5(a), ,M-6.8(a)
I-2														246	598	286						144									I-2	1374	L.F.	33" CLASS "A" STORM SEWER M-6.6(a)
I-2							598	998	48																						I-2	1648	L.F.	30" CLASS "A" STORM SEWER M-6.6(a)
I-2							108																								I-2	108	L.F.	30" CLASS "A" STORM SEWER M-6.6(a), M-6.8(b)
I-2					52																										I-2	52	L.F.	18" CLASS "A" STORM SEWER M-6.4(c)
I-2																				353											I-2	353	L.F.	24" CLASS "A" STORM SEWER M-6.5(a), M-6.8(a)
I-2	500																										85		120		I-2	705	L.F.	12" CLASS "A" STORM SEWER-UNDER PAVEMENT M-6.5(b), M-6.8(b)
I-2																				90	40										I-2	130	L.F.	12" CLASS "A" STORM SEWER M-6.4(c)
I-2														—		27	24														I-2	54	L.F.	15" CLASS "A" STORM SEWER M-6.4(c)
I-2															398																I-2	398	L.F.	36" CLASS "A" STORM SEWER M-6.6(a)
I-3																				345	335										I-3	680	L.F.	8" ROADWAY DRAINAGE-UNDER PAVEMENT OR APPROACHES
I-3			350																									—			I-3	350	L.F.	12" ROADWAY DRAINAGE
I-3																													342	196	I-3	538	L.F.	12" ROADWAY DRAINAGE-UNDER PAVEMENT OR APPROACHES
I-3	600																														I-3	600	L.F.	6" ROADWAY DRAINAGE
I-3	600																														I-3	600	L.F.	8" ROADWAY DRAINAGE
I-3	400																																	
I-3	400			10				10								30					335					10					I-3	400	L.F.	12" OUTLETS FOR ROADWAY DRAINAGE – M-6.4(a)
I-3																10					30										I-3	460	L.F.	8" OUTLETS FOR ROADWAY DRAINAGE – M-6.4(a)
I-3	400																														I-3	40	L.F.	10" OUTLETS FOR ROADWAY DRAINAGE – M-6.4(a)
																															I-3	400	L.F.	10" ROADWAY DRAINAGE
I-4			1672	4064	4060	4246	4092	3992	3992	3984	4056	3984	3972	3984	4070	3995	3992	4168	4056	3984	4041	1200							398					
I-4				20	20	70	20	20	20	20	20	30		40	30	30	20		20	20	30								10		I-4	76,002	L.F.	6" UNDERDRAINS
																															I-4	440	L.F.	8" PIPE OUTLETS FOR UNDERDRAINS – M-6.4(a)
I-5			2	3	4	9	6	1	2	2	4	3	2	4	4	3	2	3	4	9	6							1					
I-5				4	4	4	4	4	4	4	4	3		8	4	8	4		4	4	2										I-5	74	EACH	6" PIPE SPECIALS FOR UNDERDRAINS
																															I-5	69	EACH	8" PIPE SPECIALS FOR CLASS "A" STORM SEWER M-6.5(b), M-6.8(b)
																4	2														I-5	6	EACH	15" PIPE SPECIALS FOR CLASS "A" STORM SEWER – M-6.4(c)
I-8				1	1	2	2	1	1	1	1	1		2	1	2	1		1	1	1										I-8	21	EACH	STANDARD Nº4 CATCH BASIN
I-8						1	—	1		2				2						2	1										I-8	10	EACH	STANDARD Nº5 CATCH BASIN
I-8							2							1		1				1	1										I-8	7	EACH	STANDARD Nº1 MANHOLE
I-8																										2	2		3		I-8	7	EACH	STANDARD Nº 2-2A CATCH BASIN
I-8																												2			I-8	2	EACH	STANDARD Nº5 CATCH BASIN – MODIFIED (PER PLANS)
I-8	6																														I-8	6	EACH	STANDARD Nº 1 SIDE DITCH INLET (MODIFIED) ⚠
I-10				40													37		21															
I-10				29	45	69	142	67	49	36	—	15	—	—	—	42	15	—		—	75	154	34	12	12				7	7	I-10	98	S.Y.	TYPE "A" RIP RAP
																															I-10	810	C.Y.	DUMPED ROCK CHANNEL PROTECTION
I-14							500															200									I-14	700	L.F.	PAVED GUTTER – TYPE 1
S-1				22	3.2	59.2	143.9					24.2				57.6	17.2		18.7			101.2									S-1	447.2	C.Y.	CONCRETE FOR STRUCTURES – CLASS "C"
S-1																							12	.82	1.3			0.52			S-1	14.64	C.Y.	CONCRETE FOR STRUCTURES CLASS "E"
S-4				940	144	3034	9386					1456				3150	704		718			5302									S-4	24,843	LBS.	REINFORCING STEEL
S-24																					LUMP		LUMP								S-24	LUMP	LUMP	REMOVAL – EXISTING STRUCTURES
S-27																								86							S-27	86	L.F.	24" PIPE FOR ROADWAY CULVERTS
S-27																	280		206												S-27	486	L.F.	30" PIPE FOR ROADWAY CULVERTS M-6.6(b) M-6.8(b)
S-27				248								232																			S-27	480	L.F.	42" PIPE FOR ROADWAY CULVERTS M-6.6(b)
S-27						216																									S-27	216	L.F.	72" PIPE FOR ROADWAY CULVERTS M-6.6(b) M-6.4(g) GA.10
S-27																270															S-27	270	L.F.	60" PIPE FOR ROADWAY CULVERTS M-6.6(b) M-6.4(g) GA.10-10
S-27																							98								S-27	98	L.F.	84" PIPE FOR ROADWAY CULVERTS M-6.6(c)
																									18			—			S-27	84	L.F.	15" PIPE FOR ROADWAY CULVERTS M-6.6(b) M-6.8(b)
S-28							200																								S-28	200	L.F.	120" SECTIONAL PLATE PIPE FOR ROADWAY CULVERTS-M-6.4(g) GA. 8-7
S-28																						380									S-28	380	L.F.	121'6"x71'11" SECTIONAL PLATE PIPE ARCH FOR ROADWAY CULVERTS-M-6.4(g) GA. 8-7
S-29				0.29												1.16					0.29										S-29	1.74	C.Y.	DRAINAGE OF STRUCTURES, No. 2 AGGREGATE

NOTE:
SEE SHEET Nº12-A FOR REVISED QUANTITIES DATED-31, MARCH-1958,

⚠ REVISED-31, MARCH-1958

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

MED-1-110.08

12A
189

QUANTITY SUMMARY – DRAINAGE

ITEM	SHEET NUMBER 8	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	83	84	90	91	95	96	98	99
E-2																														
E-3																														
E-12																										70				
E-12																														
I-2																88														
I-1																							114	48	88	46	40	84		
I-2																					0	0								
I-2														228																
I-2																														
I-2						204				184		108				84			112											
I-2					548																									
I-2																					92									
I-2																														
I-2														0																
I-2														164																
I-2																						0								
I-2																0					294	209								
I-2							504																							
I-2							98																							
I-2					38																									
I-2																				0										
I-2																														
I-2																														
I-2														72																
I-2																158														
I-3																				0										
I-3																												275		
I-3																														
I-3																														
I-3																				345										
I-3																														
I-3																					0									
I-3																														
I-3																														
I-4													4072																	
I-4												20																		
I-5			4			10		2				2						4												
I-5						1						4																		
I-5																2														
I-8																					2									
I-8																														
I-8																														
I-8																														
I-8																												0		
I-8																														
I-8																												2	2	
I-10																														
I-10						55	154									70														
I-14																														
S-1			21.8	3.1			143.5									55.6			18.0			101.1								
S-1																														
S-4							5816									3013														
S-24																														
S-27																														
S-27																														
S-27																														
S-27																														
S-27																278														
S-27																														
S-27																												66		
S-28																														
S-28																														
S-29																														

ITEM	QUANTITY	UNIT	DESCRIPTION
E-2			
E-3			
E-12	1671	L.F.	PIPE REMOVAL – 15" & UNDER
E-12			
I-2	88	L.F.	36" CLASS "A" STORM SEWER - SHAL. OR UNDER PAVT. M-6.6(a) M-6.8(b)
I-1	420	L.F.	12" PIPE FOR DRIVEWAYS M-6.4(a)
I-2	0	L.F.	33" CLASS "A" STORM SEWER
I-2	2460	L.F.	8" CLASS "A" STORM SEWER - UNDER PAVEMENT M-6.5(b) M-6.8(b)
I-2			
I-2	582	L.F.	15" CLASS "A" STORM SEWER - SHAL. OR UNDER PAVT. M-6.5(b) M-6.8(b)
I-2	1552	L.F.	18" CLASS "A" STORM SEWER - SHAL. OR UNDER PAVT. M-6.4(c) M-6.5(b) M-6.8(b)
I-2	1571	L.F.	18" CLASS "A" STORM SEWER - SHALLOW M-6.5(b) M-6.8(b)
I-2			
I-2	0	L.F.	21" CLASS "A" STORM SEWER M-6.4(c)
I-2	2455	L.F.	27" CLASS "A" STORM SEWER M-6.6(a)
I-2	275	L.F.	18" CLASS "A" STORM SEWER M-6.5(a) M-6.8(a)
I-2	1347	L.F.	33" CLASS "A" STORM SEWER M-6.6(a)
I-2	1640	L.F.	30" CLASS "A" STORM SEWER M-6.6(a)
I-2	98	L.F.	30" CLASS "A" STORM SEWER M-6.6(a) M-6.8(b)
I-2	38	L.F.	18" CLASS "A" STORM SEWER M-6.4(c)
I-2	0	L.F.	24" CLASS "A" STORM SEWER M-6.5(a) M-6.8(a)
I-2			
I-2			
I-2	123	L.F.	15" CLASS "A" STORM SEWER M-6.4(c)
I-2	556	L.F.	36" CLASS "A" STORM SEWER M-6.6(a)
I-3	335	L.F.	8" ROADWAY DRAINAGE – UNDER PAVT. OR APPROACH
I-3	625	L.F.	12" ROADWAY DRAINAGE
I-3			
I-3			
I-3	945	L.F.	8" ROADWAY DRAINAGE
I-3			
I-3	460	L.F.	8" OUTLETS FOR ROADWAY DRAINAGE M-6.4(a)
I-3			
I-3			
I-4	76,102	L.F.	6" UNDERDRAINS
I-4	430	L.F.	8" PIPE OUTLETS FOR UNDERDRAINS M-6.4(a)
I-5	76	EACH	6" PIPE SPECIALS FOR UNDERDRAINS
I-5	67	EACH	8" PIPE SPECIALS FOR CLASS "A" STORM SEWER (M-6.5(b) M-6.8(b)
I-5	4	EACH	15" PIPE SPECIALS FOR CLASS "A" STORM SEWER M-6.4(c)
I-8	22	EACH	STANDARD No. 4 CATCH BASIN
I-8			
I-8			
I-8			
I-8	0	EACH	STANDARD No 5 CATCH BASIN - MODIFIED (PER PLANS)
I-8			
I-8	4	EACH	STANDARD No. 2-28 CATCH - BASIN
I-10			
I-10	840	C.Y.	DUMPED ROCK CHANNEL PROTECTION
I-14			
S-1	443.7	C.Y.	CONCRETE FOR STRUCTURES – CLASS "C"
S-1			
S-4	25,127	LBS	REINFORCING STEEL
S-24			
S-27			
S-27			
S-27			
S-27			
S-27	278	L.F.	60" PIPE FOR ROADWAY CULVERTS M-6.6(b), M-6.4(g) GA. 10-10
S-27			
S-27	84	L.F.	15" PIPE FOR ROADWAY CULVERTS M-6.6(b) M-6.8(b)
S-28			
S-28			
S-29			

NOTE:
SEE SHEET No 12 FOR ORIGINAL AND NON-REVISED QUANTITIES

31, MARCH-1958

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105( )	

13

MED-1-10.09

QUANTITY SUMMARY – STRUCTURES

ITEM	See Sh. No. 134 MED-1-1091	See Sh. No. 143 MED-1-1220	See Sh. No. 154 MED-1-1330	See Sh. No. 170 MED-1-1345	ITEM	QUANTITY	UNIT	DESCRIPTION
E-2	LUMP	LUMP	LUMP	LUMP	E-2	LUMP	LUMP	CRIBS, SHEETING & COFFERDAMS
E-2	389	349	238	495	E-2	1,471	C.Y.	UNCLASSIFIED EXCAVATION
S-1	285	310	267	334	S-1	1,191	C.Y.	CLASS "C" CONC. SUPERSTRUCTURE
S-1	78	87	72	127	S-1	364	C.Y.	CLASS "E" CONC. ABUTS. ABOVE FOOTINGS
S-1	74	69	69	86	S-1	298	C.Y.	CLASS "C" CONC. PIERS ABOVE FOOTINGS
S-1	158	129	139	193	S-1	619	C.Y.	CLASS "E" CONC. PIER & ABUT. FOOTINGS
S-4	110,514 ~~110,561~~	102,609 ~~102,752~~	100,913 ~~101,167~~	174,666 ~~174,585~~	S-4	479,702 ~~480,065~~	LBS.	REINFORCING STEEL
S-7	322,600	336,000	336,000	348,100	S-7	1,342,700	LBS.	STRUCTURAL STEEL
S-8	322,600	336,000	336,000	348,100	S-8	1,342,700	LBS.	FIELD PAINTING OF STRUCT. STEEL
S-14	740	683 ~~685~~	~~663~~ 673	775	S-14	2,871 ~~2,893~~	LIN.FT.	RAILING (ALUM. RAIL & SUPPORTS)-CONC. PARAPETS & END POSTS-REIN. STEEL
S-16	LUMP	LUMP	LUMP	LUMP	S-16	LUMP	LUMP	FIRST TEST PILE
S-18	1,920	2,340	2,340		S-18	6,600	LIN.FT.	12" ϕ CAST IN PLACE-REIN. CONC. PILES.
S-18				2,460	S-18	2,460	LIN.FT	STEEL PILES, 12 BP53
S-29	30	24	25	37	S-29	116	C.Y.	POROUS BACKFILL
S-29	98	116	116	40	S-29	355	C.Y.	SLOPE FACING.

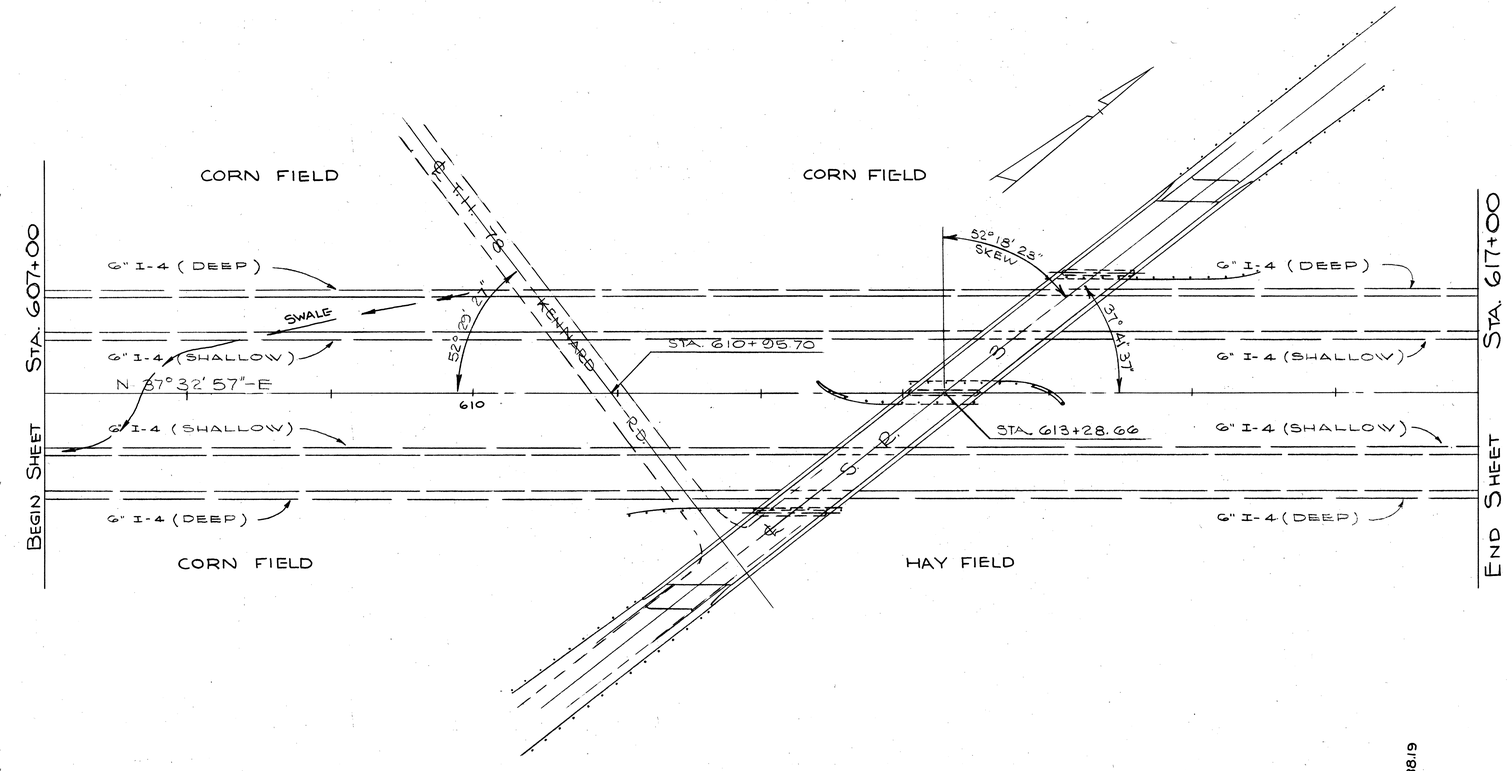
Revised 3-19-58

Cont 4

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

14
189

MED-I-10.09



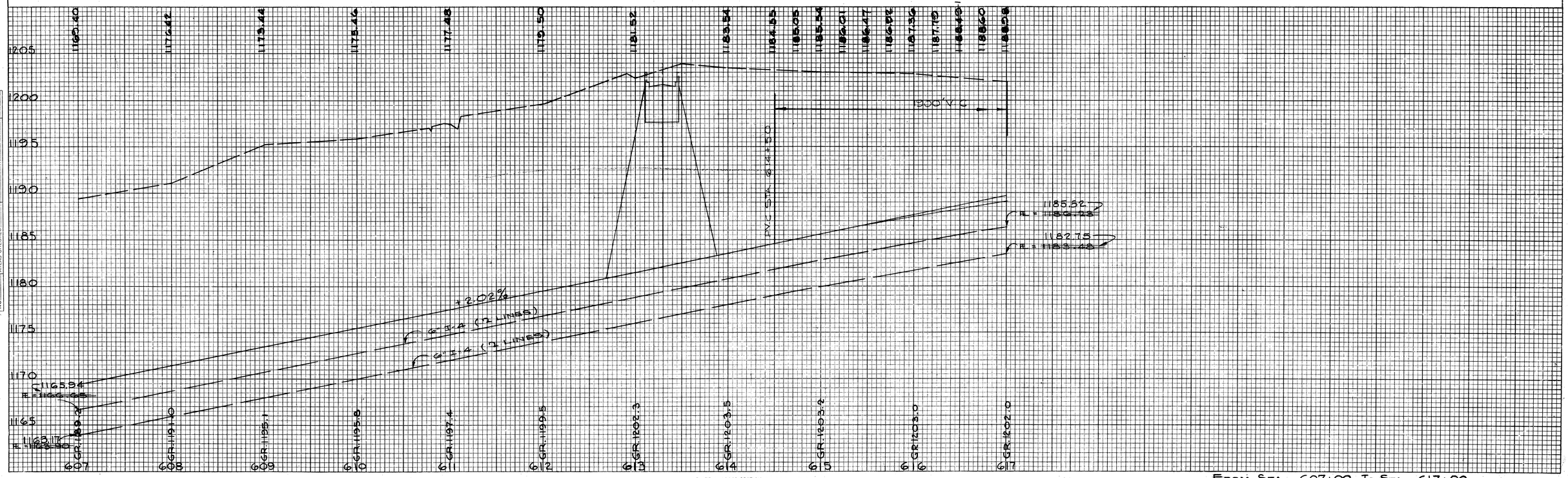
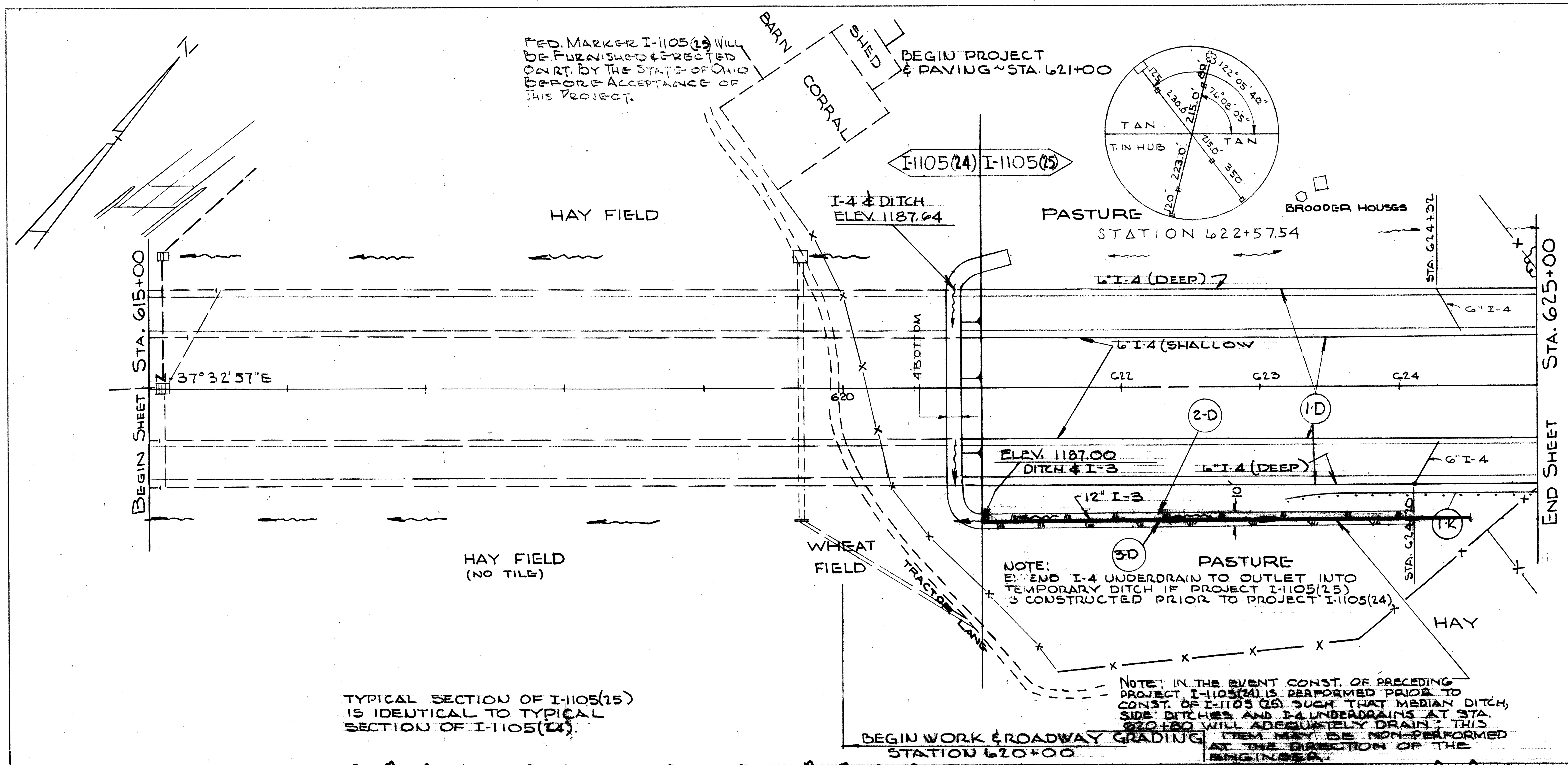


PLATE 4—CROSS SECTION O. P. R. & R. E. STANDARD
KLEUFFEL & ESSER CO., NEW YORK

FROM STA. 607+00 TO STA. 617+00
REVISED 31 MAR. '58

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, NOTE BOOK, AREAS, NO., AREAS CHECKED, BY, DATE

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, NOTE BOOK, AREAS, NO., AREAS CHECKED, BY, DATE



DRAINAGE									
REF.	STATION		SIDE	I-4 PIPE UNDERDRAIN LIN. FT. 6" PIPE		I-4 8" PIPE	I-5 PIPE SPECIAL 6"x6" 60°	L-10 SOLID SODDING SIDE-DITCH	I-3 ROADWY DRAINAGE 12" PIPE
№	FROM	TO	℄	18" SHLL'W	51" DEEP	OUTLET M-6.49	WYE EACH	SQ. YD.	LIN. FT.
1-D	621+00	625+00		800	872		2		
2-D	621+00	624+10						344	
3-D	621+00	624+50	RT						350

ROADWAY				
REF.	STATION		SIDE	I-15-2B GUARD RAIL STEEL BEAM LIN. FT.
№	FROM	TO	℄	
1-R	623+20	625+00	R	187.5

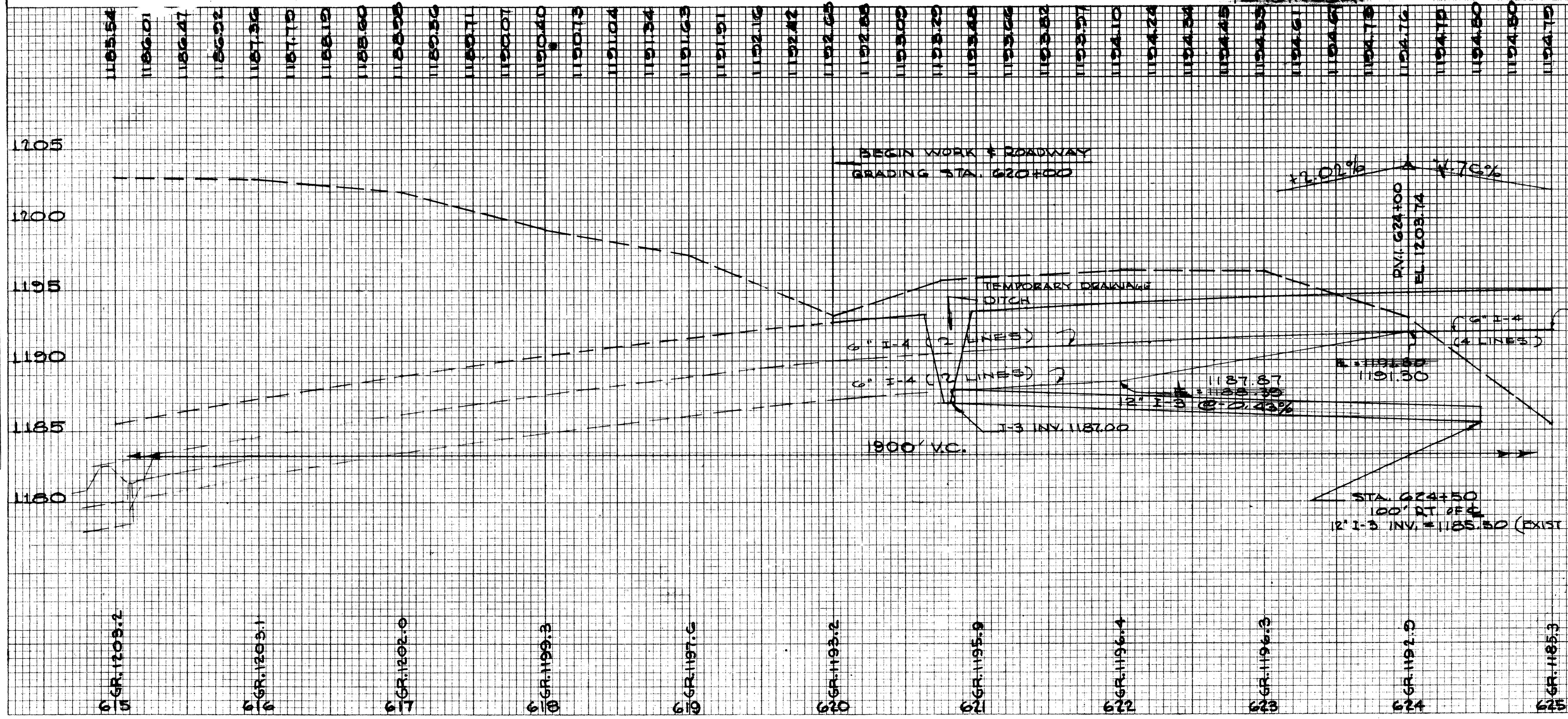
NOTE:

UNLESS I-4 ARE OTHERWISE SHOWN THEY SHALL BE PARALLEL TO PAVEMENT.

℄ REFERENCE MONUMENTS STA. 622+57.54

DELINEATORS L. & R
STA. 621+00
622+30
623+60
624+90

TYPICAL SECTION OF I-1105(25) IS IDENTICAL TO TYPICAL SECTION OF I-1105(24).



NORTHERN OHIO TELEPHONE CO.
BOX 299
BELLEVUE, OHIO

OHIO EDISON
47 NORTH MAIN STREET
AKRON 8, OHIO

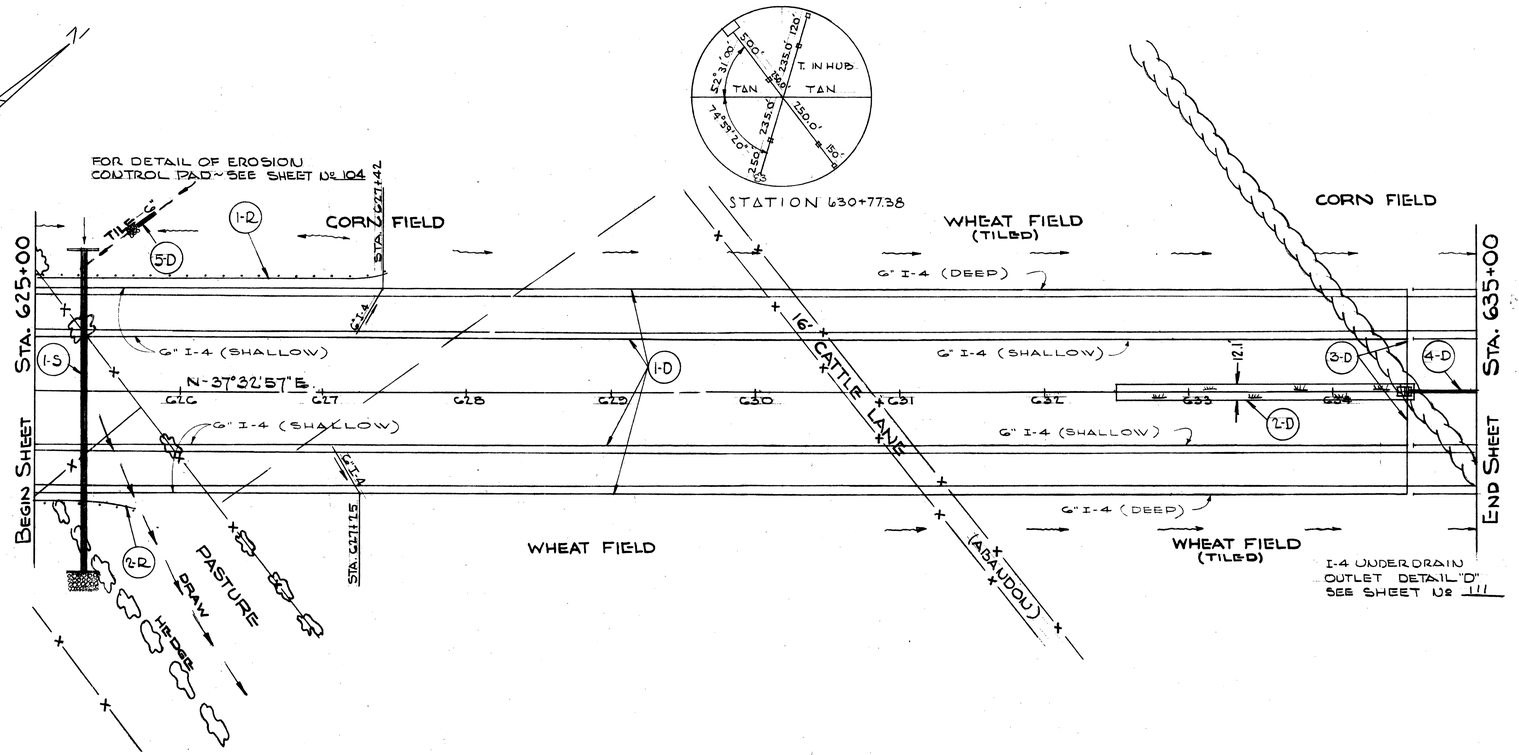
OHIO FUEL GAS
99 NORTH FRONT ST.
COLUMBUS 15, OHIO

EARTHWORK QUANTITIES			
MAIN LINE STATION OR CROSS-ROAD №	ROADWAY EXCAVATION SUITABLE MATERIAL E-101	EMBANKMENT ITEM E-101	EMBANKMENT +20% ITEM E-101
621 — 625	11229	3964	4757
625 — 635	17965	12453	14944
635 — 645	9452	21357	25628
645 — 655	40624	22798	27358
655 — 665	15082	32818	39382
665 — 675	37774	122	146
675 — 685	45466	0	0
685 — 695	88643	0	0
695 — 705	18200	14276	17131
705 — 715	1027	86078	103294
715 — 725	11971	26887	32264
725 — 735	90752	0	0
735 — 745	37461	2031	2437
745 — 755	1264	76957	92348
755 — 765	2898	45304	54364
765 — 775	10592	10604	12724
775 — 785	31233	11994	14392
785 — 795	135488	0	0
795 — 805	34861	12087	14504
805 — 808	1291	14144	16972
T.H. #120	2019	41094	49313
C.H. #121	893	14984	17981
C.H. #71	241	5040	6048
S.R. #57	1401	48323	57988
TOTALS	647,827	503315	603,975

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

16/189

MED-1-10.09



I-4 UNDERDRAIN OUTLET DETAIL "D" SEE SHEET NO. 111

DRAINAGE

REF. NO.	STATION FROM	STATION TO	SIDE ℄	I-2 CL. A ST. SEWER UNDER PAVT M-C.5(6) M-C.8(6) 8" PIPE LIN. FT.	I-2 CL. A ST. SEWER SHALLOW 18" PIPE LIN. FT.	S-29 EROSION CONTROL PAD 2" AGGR. C.Y.	I-5 PIPE SPECIALS 6" PIPE 90° BEND EACH	I-5 PIPE SPECIALS 6"X8" PIPE INCR. M-C.5(6) M-C.8(6) EACH	I-5 PIPE SPECIALS 8"X8"X6" PIPE TEE EACH	I-5 PIPE SPECIALS 6" PIPE 60° WYE EACH	I-8 C.B. #4 MEDIAN EACH	L-10 SODDING MEDIAN SOLID SQ. YD.	I-3 OUTLET 8" M-6.4(4) LIN. FT.	I-4 PIPE UNDERDRAIN 6" PIPE LIN. FT. 18" SHALLOW	I-4 PIPE UNDERDRAIN 8" PIPE OUTLET 54" DEEP	I-4 PIPE UNDERDRAIN 8" PIPE OUTLET M-6.4(4)
1-D	625+00	635+00	LER				± 2			2				1996	2068	
2-D	631+50	634+50	℄									270				
3-D	634+50	—	LER	112				2	2							20
4-D	634+50	635+00	℄		48						1					
5-D	625+15	—	LT.			0.29							10			

ROADWAY

REF. NO.	STATION FROM	STATION TO	SIDE ℄	I-15 GUARD RAIL STEEL BEAM LIN. FT.
1-R	625+00	627+45	LT.	225
2-R	625+00	626+00	RT.	100

STRUCTURE

REF. NO.	STATION	SIDE ℄	S-27 42" ROAD-WAY CULV. LIN. FT.	FOR QUALT. SEE SHEET NO.	STRUCT NO.
1-S	625+34	REL	112		MED-1-10.17

℄ REFERENCE MONUMENTS
STA. 630 + 77.38

DELINEATORS L ℄ R
STA. 625 + 00
626 + 50
627 + 80
629 + 10
630 + 40
631 + 70
633 + 00
634 + 30

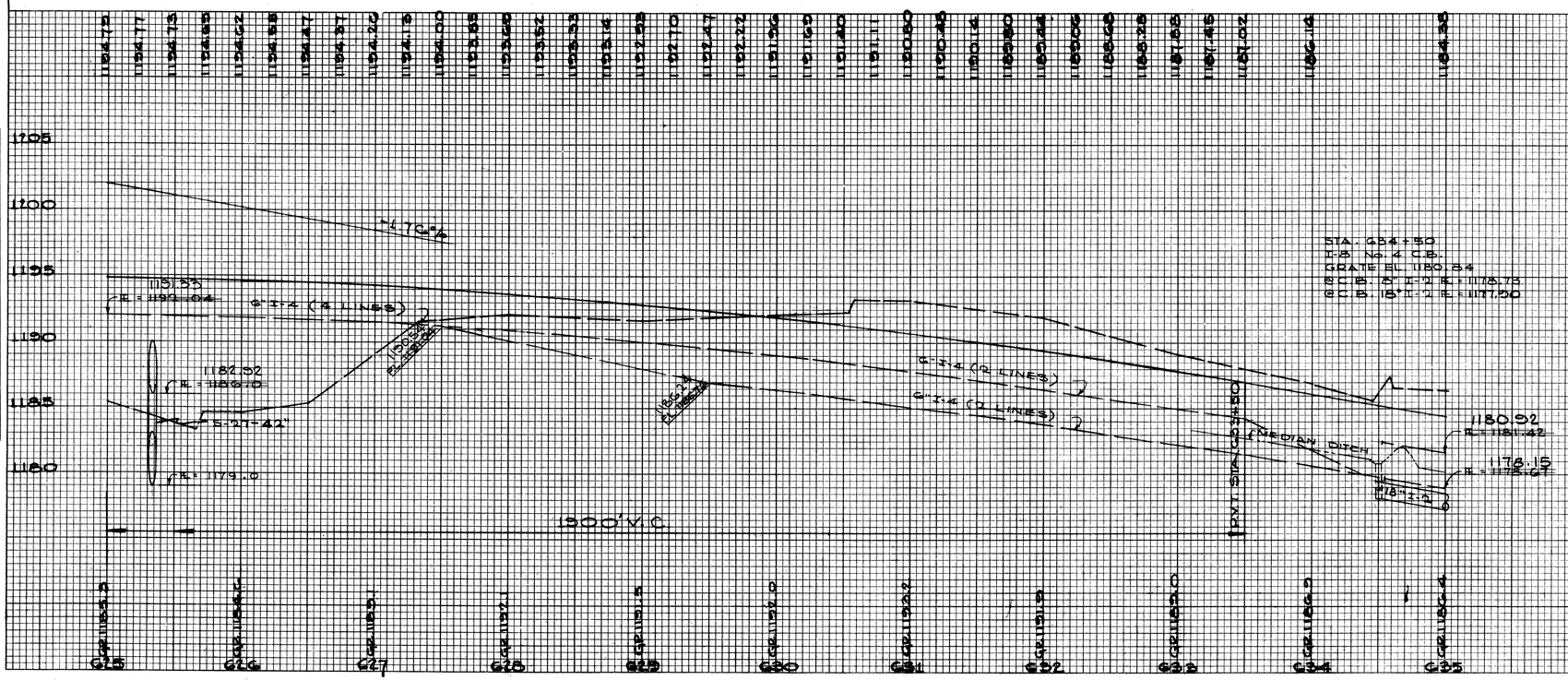


PLATE 4—CROSS SECTION O.P.R.&R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK

FROM STA. 625+00 TO STA. 635+00 REVISED: 31 MAR. '58

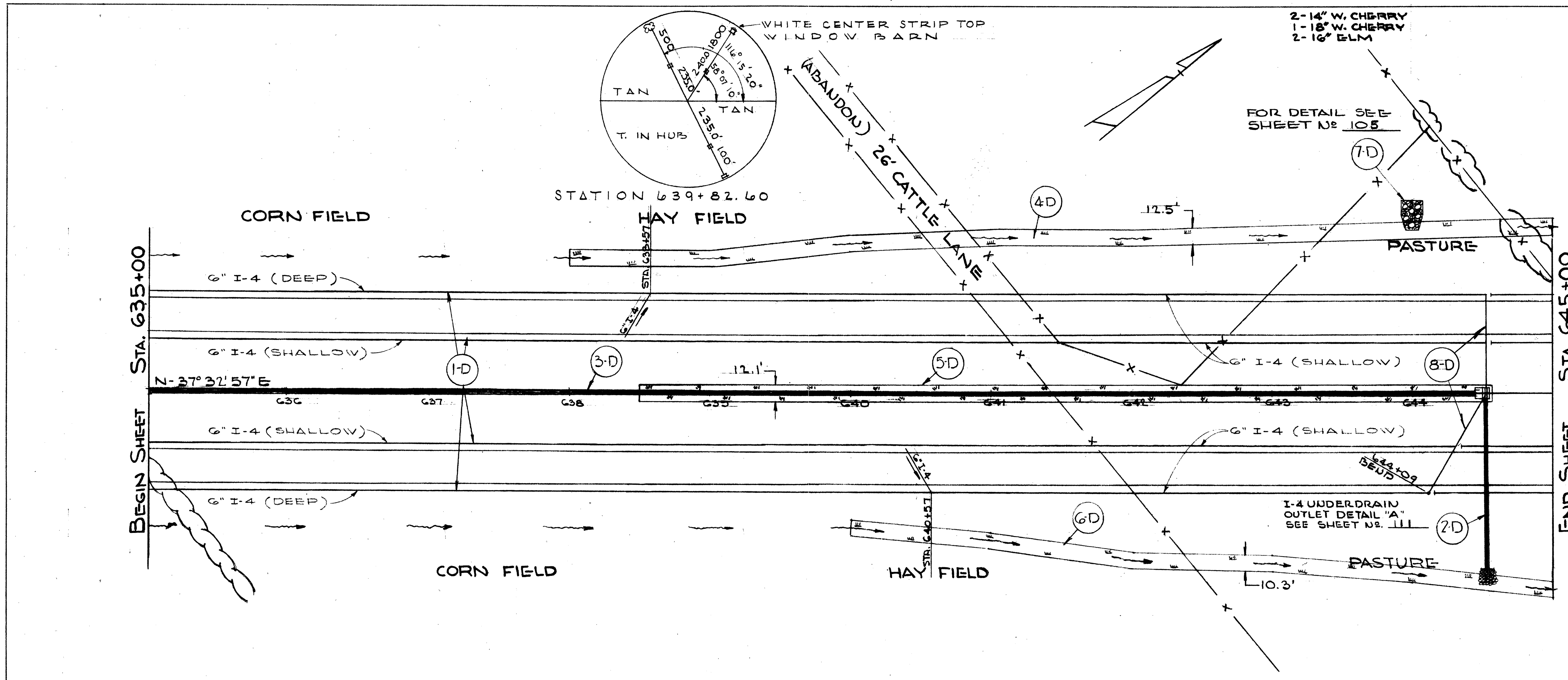
FINAL SURVEY — SURVEYED, PLOTTED, TRIANGULATE, NOTE BOOK, AREAS, CHECKED, NO., BY, DATE

ORIGINAL SURVEY — SURVEYED, PLOTTED, TRIANGULATE, NOTE BOOK, AREAS, CHECKED, NO., BY, DATE

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

17
189

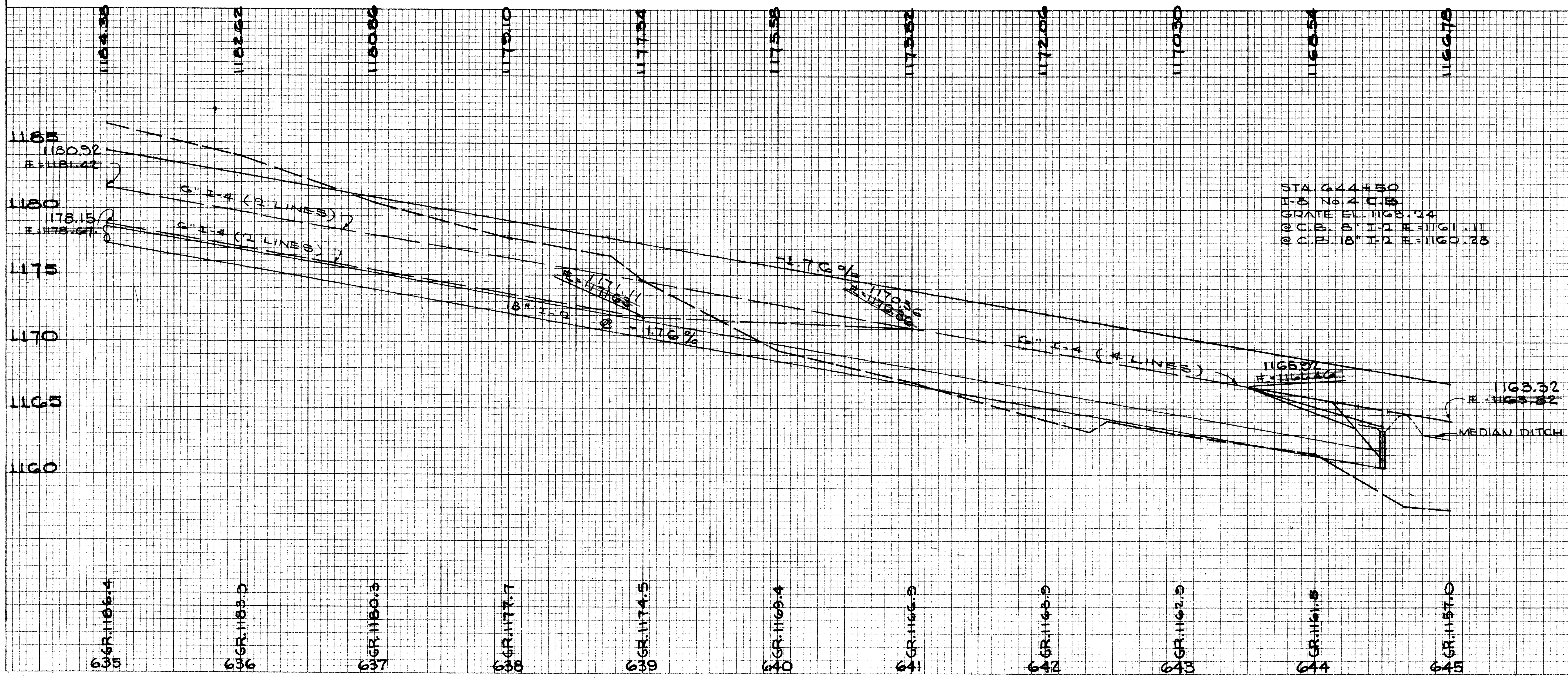
MED-1-10.09



DRAINAGE																					
REF.	STATION		SIDE	I-2 CL"A" STORM SEWER LIN. FT. UNDER PAVEMENT SH'LL'W OR APPROACH				I-4 PIPE UNDER DRAIN LIN. FT. 6" PIPE			I-5 PIPE SPECIALS					M-6.5b M-6.8b	I-10 DUMP ROCK	HDWLL. "A"		L-10 SODDING MEDIAN & SIDE DITCH	I-8 C.B. #4 MEDIAN
				M-6.5b M-6.8b	18" PIPE						6" PIPE 60° BEND	6" PIPE 90° BEND	6"x8" PIPE INCRESR	8"x8"x6" PIPE TEE	6"x6" PIPE 60° WYE	6"x8" PIPE 60° WYE		S-1 CONC. FOR STRUCT. CL. "C"	S-4 REINF. STEEL		
No	FROM	TO	℄	8" PIPE	M-6.8b M-6.4c M-6.5b	M6.4c	M6.5b M6.8b	18" SHALLOW	51" DEEP	OUTLET PIPE M-6.4d	EACH	EACH	M-6.5(b) M-6.8(b) EACH	EACH	EACH	EACH	CU. YD.	CU. YDS.	LBS.	SQ. YDS.	EACH
1-D	635+00	645+00	L&R					1996	2064		1	1			2			3.1			
2-D	644+50	—	L&R		38	~~52~~	86										15	~~3.2~~	144		1
3-D	635+00	644+50	℄		948																
4-D	638+00	645+00	LT																	970	
5-D	638+50	644+50	℄																	806	
6-D	640+00	645+00	RT																	572	
7-D	644+00	—	LT														30				
8-D	644+50	—	L&R	121						20			2	1		1					

℄ REFERENCE MONUMENTS
STA. 639 + 82.60

DELINEATORS L & R
STA. 635 + 60
636 + 90
638 + 20
639 + 50
640 + 80
642 + 10
643 + 40
644 + 70



FINAL SURVEY — NOTE BOOK / NO.

ORIGINAL SURVEY — NOTE BOOK / NO.

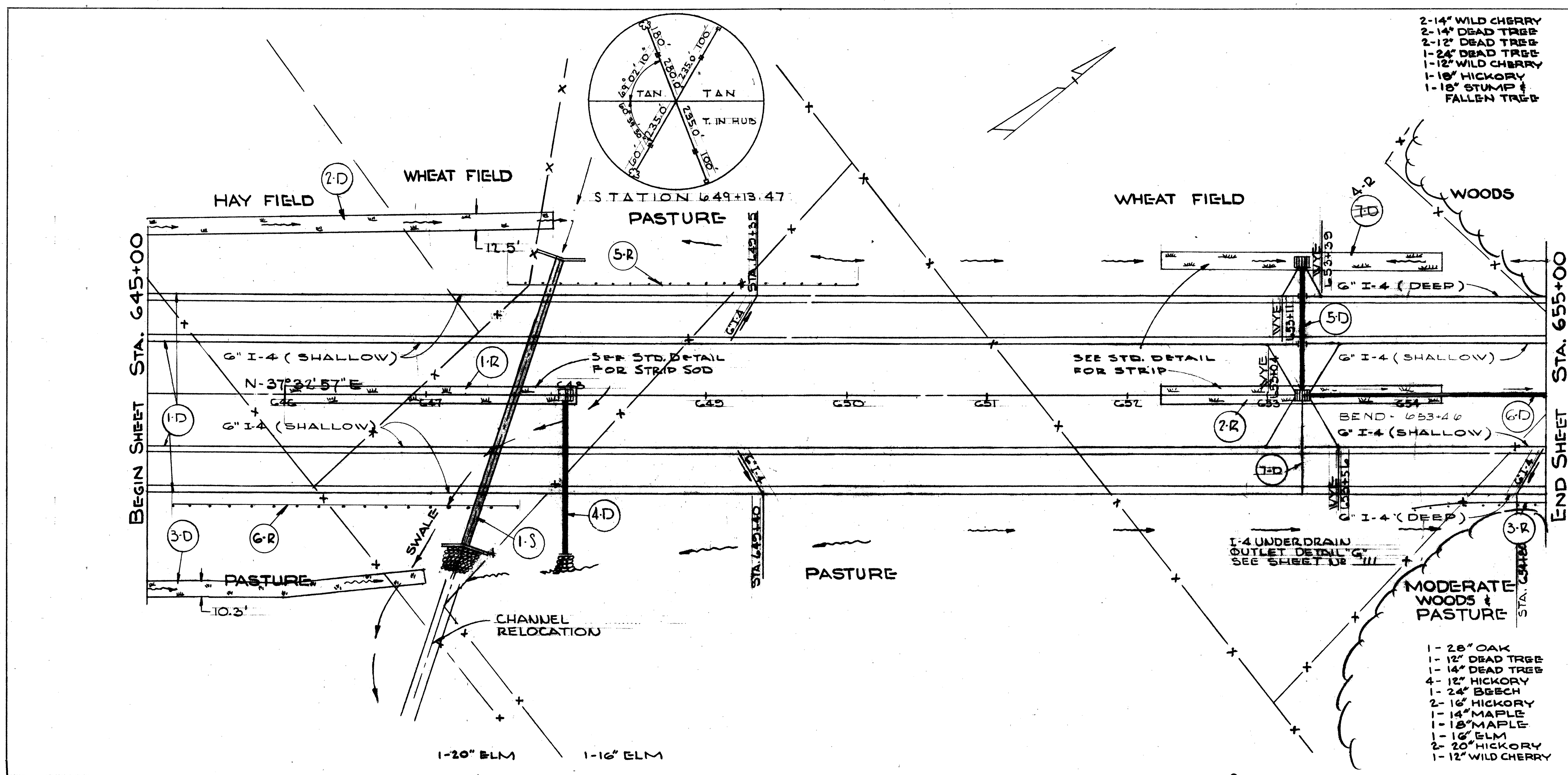
FROM STA. 635+00 TO STA. 645+00

REVISED: 31 MAR. '58

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

MED-1-10.09

18
189



DRAINAGE

REF. Nº	STATION FROM	STATION TO	SIDE ℄	I-2 CL. "A" STORM SEWER – LIN. FT. Und'r Pv't. or Appr. M-6.5b 8" Pipe	M-6.8b 15" Pipe	Class "A" M-6.8a 18" Pipe M-6.5a	I-4 Underdrains Lin. Ft. 6" Pipe 18" Sh'low	54" Deep	6" Pipe Outlet M-4.4a		I-5 Pipe Specials Lin. Ft. Wye 6" 60°	Tee 6" 8"x8"	Inc'r. 6"-8"	I-8 Catch Basins Each #4 Median Inlet	#5 Side Ditch		L-10 Sodding Side Ditch Sod Sq. Yds.	I-10 Dump Rock Cu. Yds.	Head Wall "A" S-1 Conc. for Struct. Cl. "C" Cu. Yds.	S-4 Reinforcing Steel Lbs.
1-D	645+00	655+00	R&L				2112	2134			9									
2-D	645+00	647+90	LT.														402			
3-D	645+00	647+00	RT.		112												228			
4-D	648+00	—	R&℄		~~90~~									1				15	3.2	144
5-D	653+25	—	R&L		~~112~~									1	1					
6-D	653+25	655+00	℄		92	175														
7-D	653+25	—	R&L	56					70			1	1 ~~3~~							

ROADWAY

REF. Nº	STATION FROM	STATION TO	SIDE ℄	L-10 SODDING MEDIAN STRIP SQ.YDS.	I-15 GUARD RAIL LIN. FT. BEAM
1-R	646+00	648+00	℄	54	
2-R	652+25	654+25	℄	54	
3-R	654+00	655+00	RT.		100
4-R	652+25	654+25	LT.	54	
5-R	647+57	650+07	LT.		250
6-R	645+17	647+67	RT.		250

STRUCTURE

REF. Nº	STATION	SIDE ℄	S-27 72" RDWY CULVERT LIN. FT.	FOR QUANTITIES SEE SHEET Nº.	STRUCT. Nº.
1-S	647+64	R&L		112	MED-1-10.60

℄ REFERENCE MONUMENTS
STA. 649 + 13.47

DELINEATORS L & R
STA. 646 + 00
647 + 30
648 + 60
649 + 90
651 + 20
652 + 50
653 + 80

PLATE 4—CROSS SECTION O.P.R.& R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK

FROM STA. 645+00 TO STA. 655+00

REVISED: 31 MAR. '58

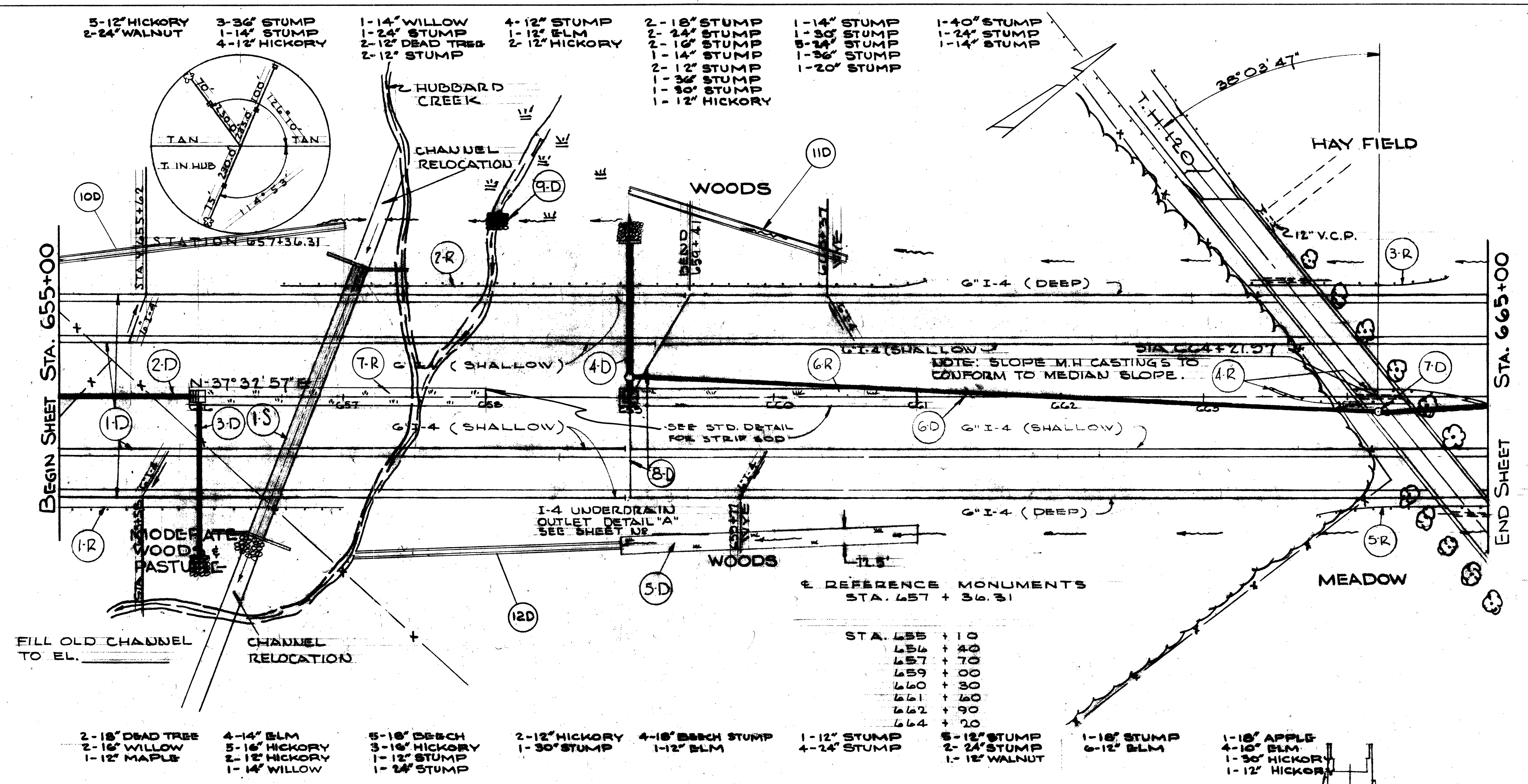
FINAL SURVEY: SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED, NOTE BOOK NO., BY, DATE

ORIGINAL SURVEY: SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED, NOTE BOOK NO., BY, DATE

FED. RD.	STATE	PROJECT
2	OHIO	I-1105 (25)

19 / 189

MED-1-10.09



DRAINAGE (CONTINUED)

REF. No.	STATION FROM	STATION TO	SIDE ℄	L-10 SODDING MEDIAN SIDE SQ.YDS.	I-10 DUMP ROCK CU.YD.	HOWLL "A" S-1 CONC. FOR STRUCT. CL. "C" CU.YDS.	HOWLL "A" S-4 REINF. STEEL LBS.	I-4 PIPE UNDERDRAIN 6" PIPE 18" SHALLOW	I-4 PIPE UNDERDRAIN 6" PIPE 51" DEEP	I-4 PIPE UNDERDRAIN 8" PIPE OUTLET M-6.4a
1-D								1992	2100	
2-D						3.1				
3-D	656+0	—	R&℄		15	~~3.2~~	144			
4-D	659+0	—	℄&R	27	~~15~~	~~7.7~~ 7.4	286			
5-D	659+0	661+0	RT	277						
8-D	659+00	—	℄-LT							20
9-D	658+00	—	LT.		5					

DRAINAGE

REF. No.	STATION FROM	STATION TO	SIDE ℄	I-2 STORM SEWER-CL."A" L.F. UNDER PAV'T. OR APPR. M-6.5(b) M-6.8(b) 8" PIPE	UNDER PAV'T. M-6.5(b) M-6.8(b) 18" PIPE	M6.8b M6.6a 30" PIPE	CLASS "A" M6.5a M6.8a 18"	M6.6a 30" PIPE	M-6.4a 18" PIPE	I-5 PIPE SPECIALS (EACH) BENDS 6" 90°	BENDS 6" 60°		TEE M-6.5b OR M-6.8b 6"x8"x8"	INC'S'R 6"~8"	WYES 6"x8" 60°	WYES 6"x6" 60°	I-8 EACH #4 MEDIAN INLET	I-8 EACH #1 MAN HOLE
1-D	655+0	665+0	R&L							1	1					4		
2-D	655+0	656+0	℄				98											
3-D	656+0	—	R&℄		105	98											1	
4-D	659+0	—	℄-LT			~~108~~	6										1	1
5-D	659+0	661+0	RT					594										
6-D	659+0	665+0	℄					~~598~~										
7-D	664+22	—	℄															1
8-D	659+00	—	℄,LT	121									1	2	1			

DRAINAGE (CON'T)

REF No.	STATION FROM	STATION TO	SIDE ℄	I-14 PAVED GUTTER-TYPE I LF
10D	655+50	657+00	LT	150
11D	659+00	660+50	LT	150
12D	657+00	659+00	RT	200

ROADWAY

REF. No.	STATION FROM	STATION TO	SIDE ℄	I-15-2B GUARD RAIL LIN.FT. BEAM	I-15-2B GUARD RAIL LIN.FT. BARRIER	L-10 SODDING MEDIAN STRIP SQ.YDS.	
1-R	655+00	657+00	RT	200			
2-R	656+55	661+07	LT	450			
3-R	663+30	664+70	LT	137.5			
4-R	663+47	665+00	℄	150	50		
5-R	663+80	665+00	RT	120			
6-R	659+00	661+00	℄			54	
7-R	656+00	658+00	℄			54	△

STRUCTURE

REF No.	STATION	SIDE ℄	S-27 120" R'WAY CULV. LIN.FT.	FOR QUANT. SEE SHEET No.	STRUCT No.
1-S	656+78	R&L		115	MED-1-10.77

BRIDGE No. MED-1-1051

TYPE — CONTINUOUS STEEL GIRDER WITH REINFORCED CONC. DECK & SUBSTRUCTURE
SPANS — 62'-103.5'-103.5'-62' C/L BRG
ROADWAY — 24' F/F 2' SAFETY CURB
LOAD FREQUENCY — CF 30
SKEW — 38°03'47" LT. FWD.
WEARING SURFACE — 1/2" MONOLITHIC
APPROACH SLAB — 25' L6
ALIGNMENT — STRAIGHT
SUPERELEVATION — NONE

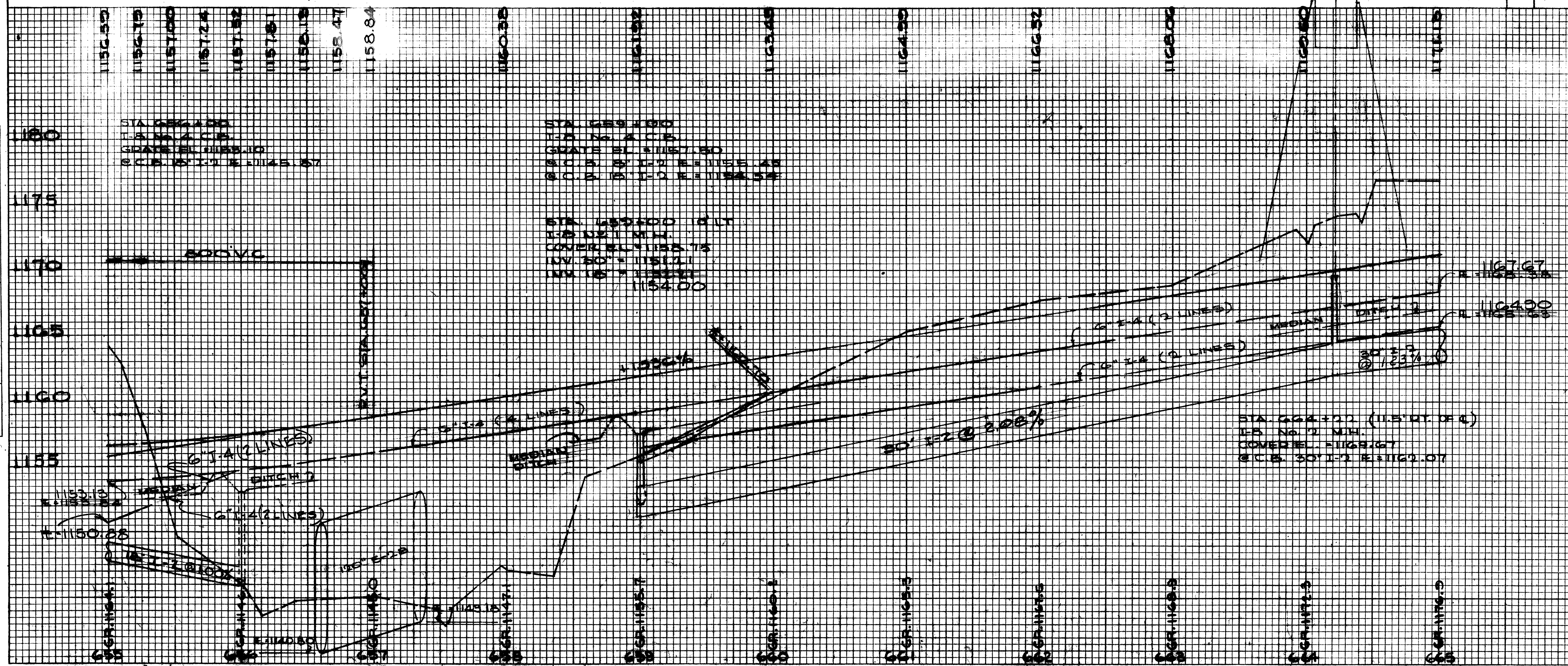


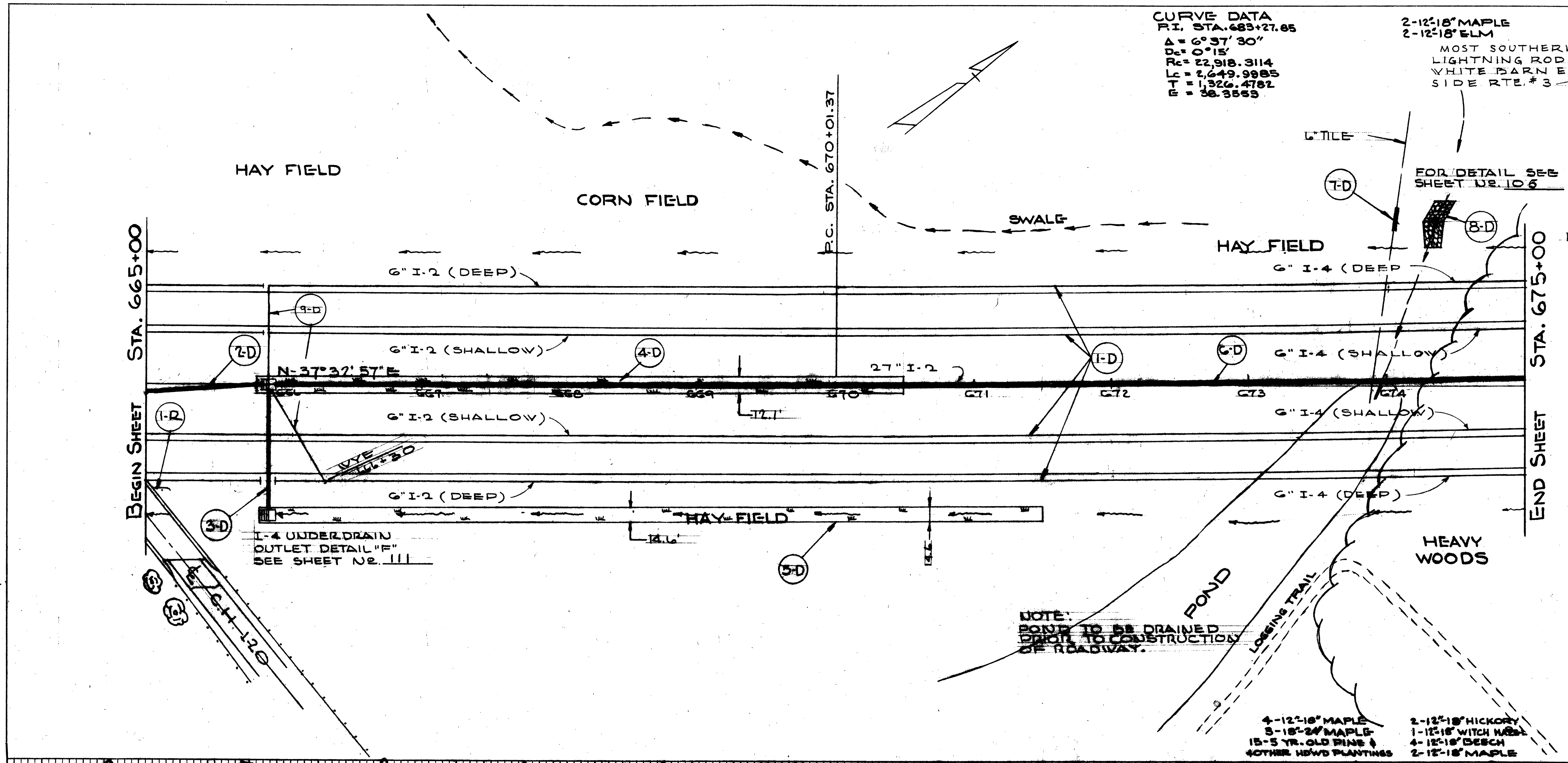
PLATE 4—CROSS SECTION O.P.R.&R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK

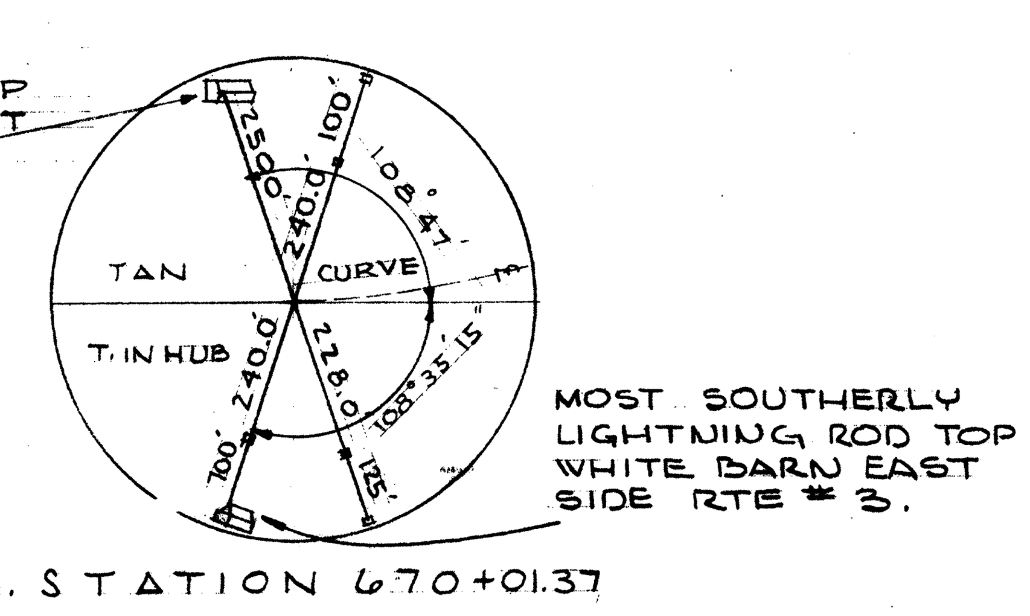
FROM STA. 655+00 TO STA 665+00 △ REVISED: 31 MAR '58

FED. RD.	STATE	PROJECT
2	OHIO	I-1105 (25)

20
185

MED-1-10.09





P.C. STATION 670+01.37

DRAINAGE																					
REF.	STATION		SIDE	I-2 CLASS "A" STORM SEWER LIN. FT.				I-3	I-10	I-5 PIPE SPECIALS (EA.)				I-8 CATCH BASINS (EA.)		L-10 SODDING	I-4 PIPE UNDERDRAIN LIN. FT.			I-5 PIPE SPECIALS
				UNDER PAV'T OR APPR.		CLASS "A"		8" OUTLET	DUMPED ROCK	BENDS	WYE	INCR'S	TEE	#4	#5	MEDIAN & SIDE DITCH SOLID				6" x 60° WYE (EA.)
				M-6.5b M-6.8b	M-6.5b M-6.8b	M-6.6a					M-6.5b & M-6.8b									
No	FROM	TO	℄	8" PIPE	18" PIPE	27" PIPE	30" PIPE	LIN. FT.	CU. YD.	6" 90°	8"x6" 60°	6"-8"	6"x 8"x8"			SQ. YD.	6" PIPE 18" SHALLOW	6" PIPE 51" DEEP	8" PIPE OUTLET M-6.4a	
1-D	665+00	675+00	R&L							1							1996	1996		1
2-D	665+00	665+90	℄				89													
3-D	665+90	—	R&L		91									1	1					
4-D	665+90	670+80	℄													562				
5-D	665+90	671+80	R													910				
6-D	665+90	675+00	℄				909													
7-D	674+25	—	[illegible]					10												
8-D	674+35	—	LT						67											
9-D	665+90	—	R&L	121							1	2	1						20	

ROADWAY				
REF.	STATION		SIDE	I-5 GUARD RAIL BEAM
No	FROM	TO	℄	LIN. FT.
1-R	665+00	665+18	RT.	17.5
2-R				

℄ REFERENCE MONUMENTS
STA. 670 + 01.37 2 REQ'D 5'RT, 5'LT

DELINEATORS L & R
STA. 665 + 50
666 + 80
668 + 10
669 + 40
670 + 70
672 + 00
673 + 30
674 + 60

PLATE 4—CROSS SECTION O.P.R.&R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK

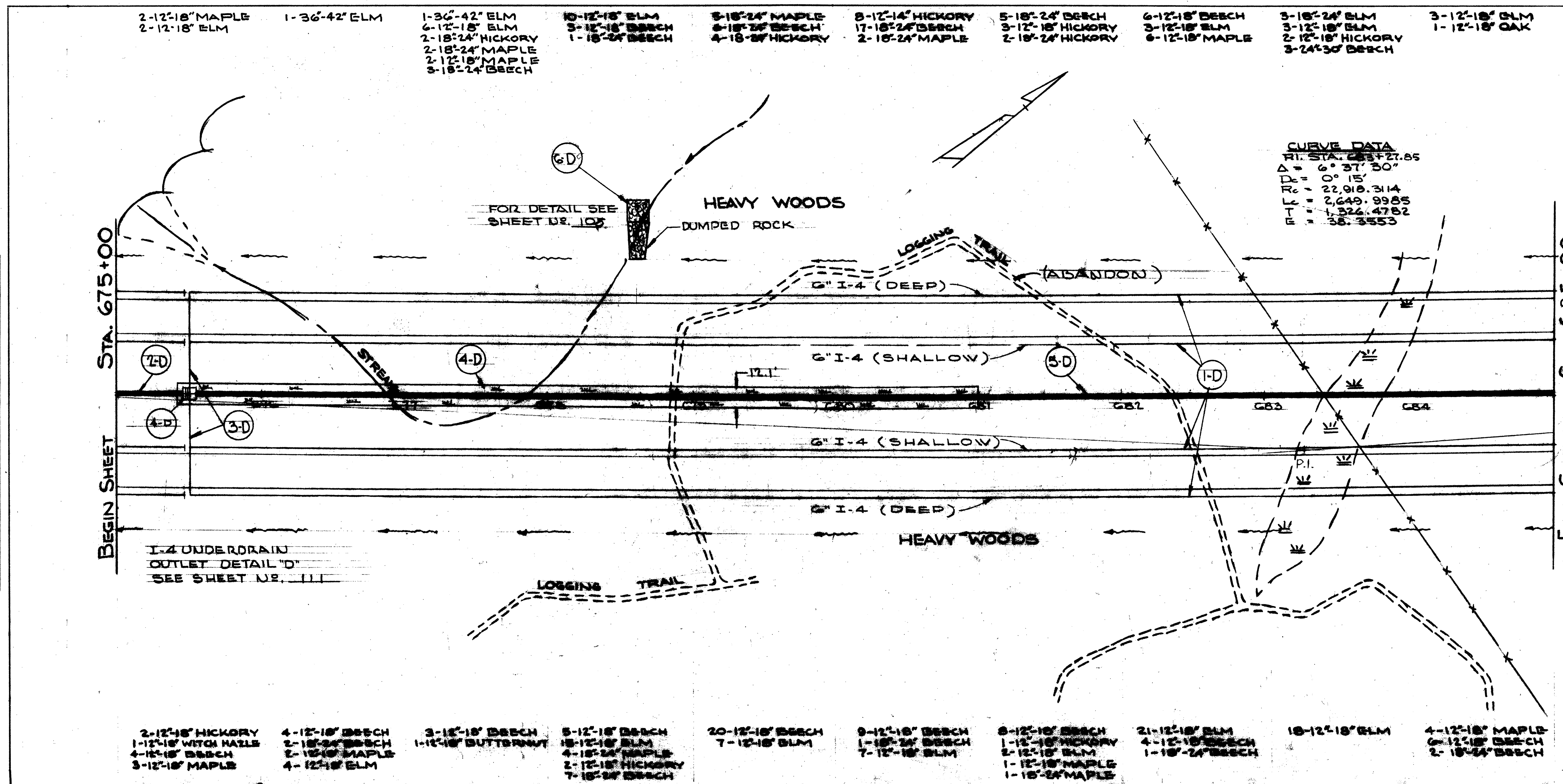
FROM STA. 665+00 TO STA. 675+00

REVISED: 31 MAR. '58

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

21
189

MED-1-10.09

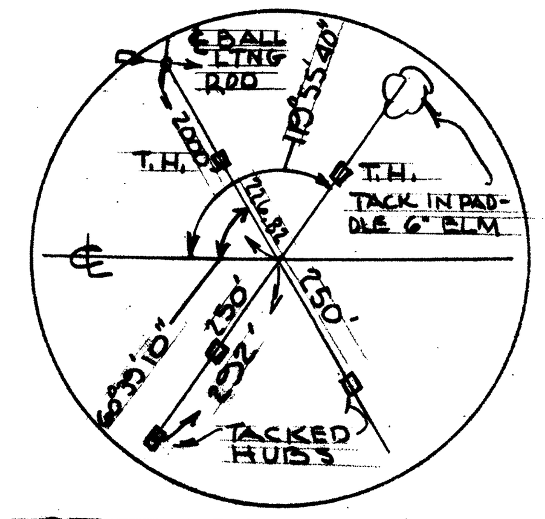


CURVE DATA
PI. STA. 685+27.85
Δ = 6° 37' 30"
Dc = 0° 15'
Rc = 22,918.314
Lc = 2,649.9985
T = 1,326.4782
E = 38.3553

DRAINAGE																
REF.	STATION		SIDE	I-2 CLASS "A" STORM SEWER LIN. FT.			I-10	I-5 PIPE SPECIAL (EACH)			I-8 CATCH BASIN (EACH)	L-10 SODDING	I-4 PIPE UNDERDRAIN LIN. FT.			
				UNDER PAV'T & APPR. M-6.5b M-6.8b	CLASS "A" M-6.6a		DUMPED	BEND	TEE	INCSR						
No.	FROM	TO	℄	8" PIPE	27" PIPE	30" PIPE	ROCK CHANNEL PROTECTION CU. YDS.	6"-90°	6"x8"x8"	6"x8"	#4 MEDIAN CATCH BASIN	MEDIAN SOLID SQ. YD.	6" PIPE 18" SHALLOW	6" PIPE 51" DEEP	8" PIPE OUTLET M-6.4a	
									M-6.5b & M-6.8b							
1-D	675+00	685+00	R&L					2					1996	1996		
2-D	675+00	675+80	℄			48										
3-D	675+80	—	R&L	112					2	2					20	
4-D	675+50	681+00	℄								1	806				
5-D	675+50	685+00	℄		948											
6-D	678+65		LT.				49									

℄ REFERENCE MONUMENTS
STA. 678+00 2-REQ'D 5'RT. & 5'LT.

DELINEATORS L&R
STA. 675 + 90
677 + 20
678 + 50
679 + 80
681 + 10
682 + 40
683 + 70

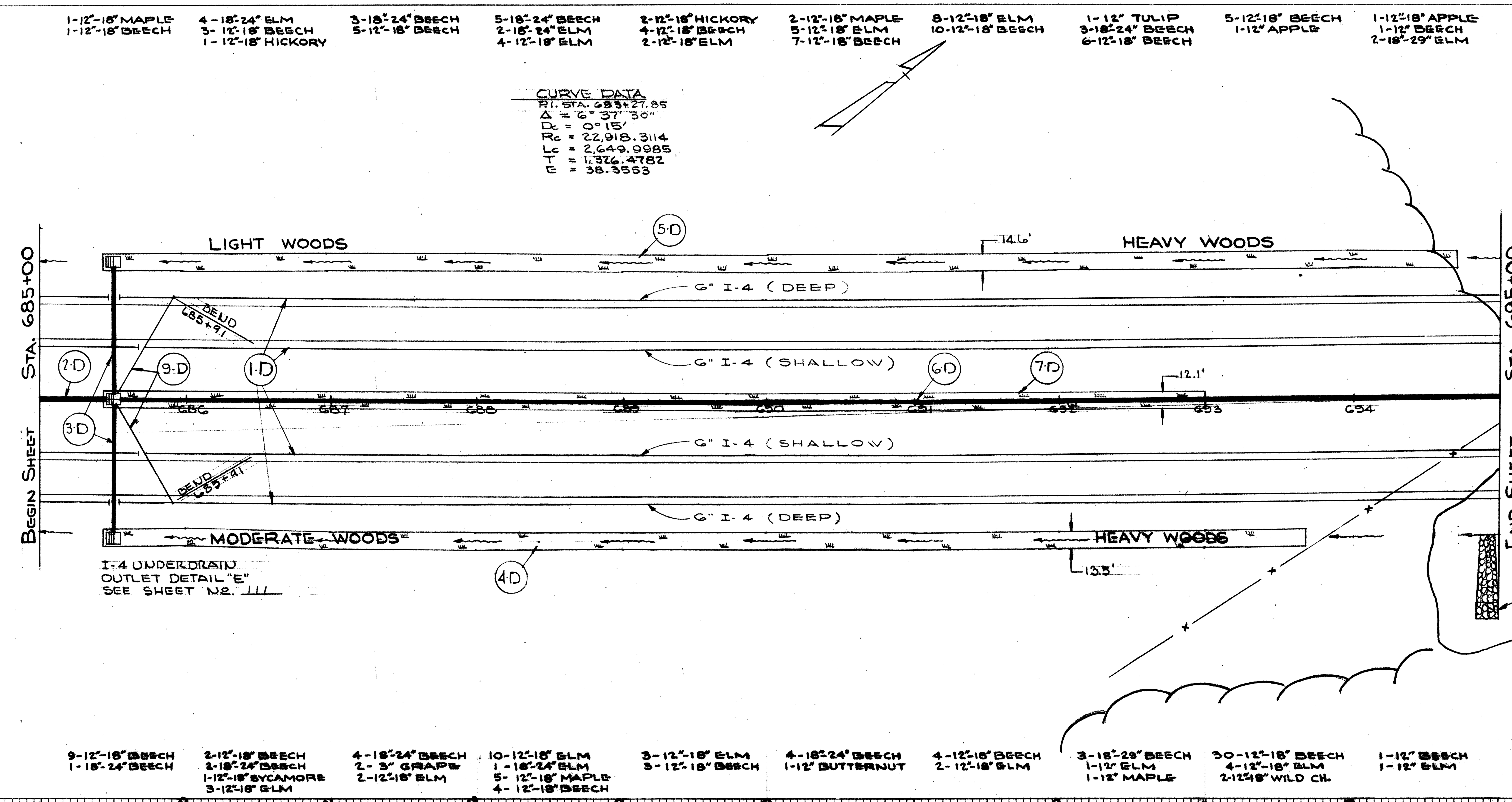


STA. 678+00

FINAL SURVEY — SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED — NOTE BOOK — NO. 1 — BY — DATE

ORIGINAL SURVEY — SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED — NOTE BOOK — NO. — BY — DATE

FROM STA. 675+00 TO STA. 685+00 REVISED 31 MAR. 58

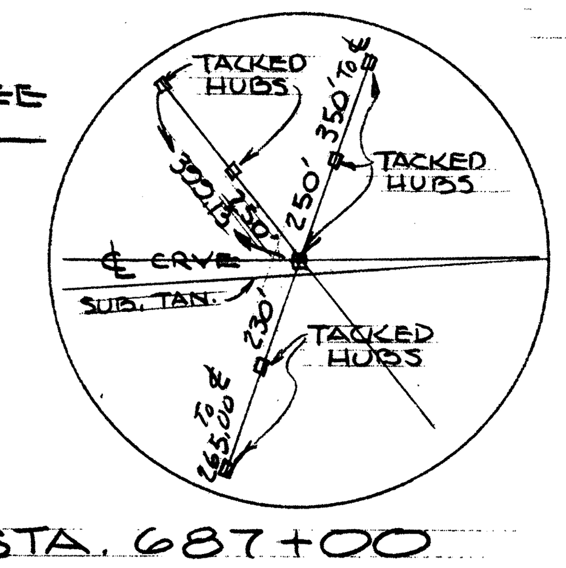


1-12"-18" MAPLE
1-12"-18" BEECH
4-18"-24" ELM
3-12"-18" BEECH
1-12"-18" HICKORY
3-18"-24" BEECH
5-12"-18" BEECH
5-18"-24" BEECH
2-18"-24" ELM
4-12"-18" ELM
2-12"-18" HICKORY
4-12"-18" BEECH
2-12"-18" ELM
2-12"-18" MAPLE
5-12"-18" ELM
7-12"-18" BEECH
8-12"-18" ELM
10-12"-18" BEECH
1-12" TULIP
3-18"-24" BEECH
6-12"-18" BEECH
5-12"-18" BEECH
1-12" APPLE
1-12"-18" APPLE
1-12" BEECH
2-18"-29" ELM
LIGHT WOODS
HEAVY WOODS
14.6'
5-D
6" I-4 (DEEP)
BEND 685+91
6" I-4 (SHALLOW)
STA. 685+00
2-D
9-D
1-D
6-D
7-D
12.1'
3-D
686
687
688
689
690
691
692
693
694
6" I-4 (SHALLOW)
BEND 685+91
6" I-4 (DEEP)
BEGIN SHEET
MODERATE WOODS
HEAVY WOODS
13.5'
4-D
I-4 UNDERDRAIN OUTLET DETAIL "E" SEE SHEET No. 111
STA. 695+00
END SHEET
8-D
FOR DETAIL SEE SHEET No. 105
9-12"-18" BEECH
1-18"-24" BEECH
2-12"-18" BEECH
2-18"-24" BEECH
1-12"-18" SYCAMORE
3-12"-18" ELM
4-18"-24" BEECH
2-3" GRAPE
2-12"-18" ELM
10-12"-18" ELM
1-18"-24" ELM
5-12"-18" MAPLE
4-12"-18" BEECH
3-12"-18" ELM
3-12"-18" BEECH
4-18"-24" BEECH
1-12" BUTTERNUT
4-12"-18" BEECH
2-12"-18" ELM
3-18"-29" BEECH
1-12" ELM
1-12" MAPLE
30-12"-18" BEECH
4-12"-18" ELM
2-12"-18" WILD CH.
1-12" BEECH
1-12" ELM

CURVE DATA
PI. STA. 683+27.85
Δ = 6° 37' 30"
Dc = 0° 15'
Rc = 22,918.3114
Lc = 2,649.9985
T = 1,326.4782
E = 38.3553

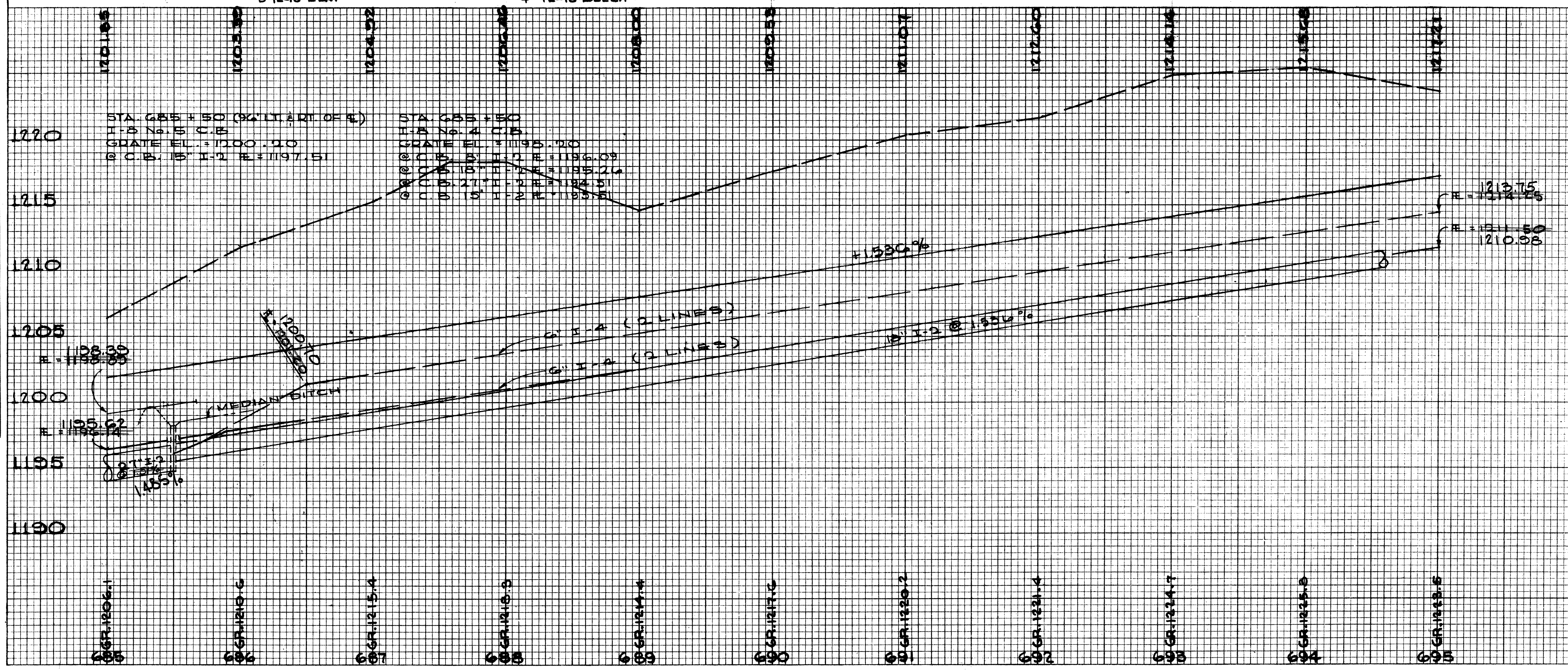
DRAINAGE																	
REF.	STATION		SIDE	I-2 CLASS "A" STORM SEWER LIN. FT.				I-4 PIPE UNDERDRAIN LIN. FT.			I-5 PIPE SPECIALS EACH			I-8 CATCH BASIN EACH		L-10 SODDING SOLID SIDE DITCH	I-10 DUMPED ROCK CHANNEL PROTECTION
				UNDER PAV'T. OR APPR. M-6.5b M-6.8b		CLASS "A" M-6.5b M-6.8b M-6.4c	M-6.6a				BENDS	WYE M-6.5b & M-6.8b	INCR'S	#4	#5		
No	FROM	TO	℄	8" PIPE	15" PIPE	18" PIPE	27" PIPE	6" PIPE 18" SHALLOW	6" PIPE 51" DEEP	8" PIPE OUTLET M-6.4a	6" 60°	6"x8"x8" 60°	6"x8"	MEDIAN INLET	SIDE DITCH INLET	SQ. YDS.	CU. YDS.
1-D	685+00	695+00	L&R					1992	1992		2						
2-D	685+00	685+50	℄		184		48										
3-D	685+50	—	L&R		~~176~~									1	2		
4-D	685+50	693+70	RT													1235	
5-D	685+50	694+70	LT													1493	
6-D	685+50	695+00	℄			948											
7-D	685+50	693+00	℄													1000	
8-D	695+00	—	RT.														36
9-D	685+50	—	L&R.	130						20		2	2				

℄ REFERENCE MONUMENT
STA. 687+00



STA. 687+00

DELINEATORS L&R
STA. 685 + 00
686 + 30
687 + 60
688 + 90
690 + 20
691 + 50
692 + 80
694 + 10



1201.85
1203.30
1204.92
1206.46
1208.00
1209.53
1211.07
1212.60
1214.14
1215.68
1217.21
1220
1215
1210
1205
1200
1195
1190
STA. 685 + 50 (96' LT. & RT. OF ℄)
I-8 No. 5 C.B.
GRATE EL. = 1200.20
@ C.B. 15" I-2 ℄ = 1197.51
STA. 685 + 50
I-8 No. 4 C.B.
GRATE EL. = 1195.20
@ C.B. 8" I-2 ℄ = 1196.09
@ C.B. 18" I-2 ℄ = 1195.26
@ C.B. 27" I-2 ℄ = 1194.51
@ C.B. 15" I-2 ℄ = 1195.51
+1.536%
1213.75
1210.98
6" I-4 (2 LINES)
6" I-4 (2 LINES)
18" I-2 @ 1.536%
MEDIAN DITCH
1198.33
1195.62
685+50
GR. 1206.1
GR. 1210.6
GR. 1215.4
GR. 1218.3
GR. 1214.4
GR. 1217.6
GR. 1220.2
GR. 1221.4
GR. 1224.7
GR. 1225.8
GR. 1223.6
685
686
687
688
689
690
691
692
693
694
695

FINAL SURVEY | NOTE BOOK No.

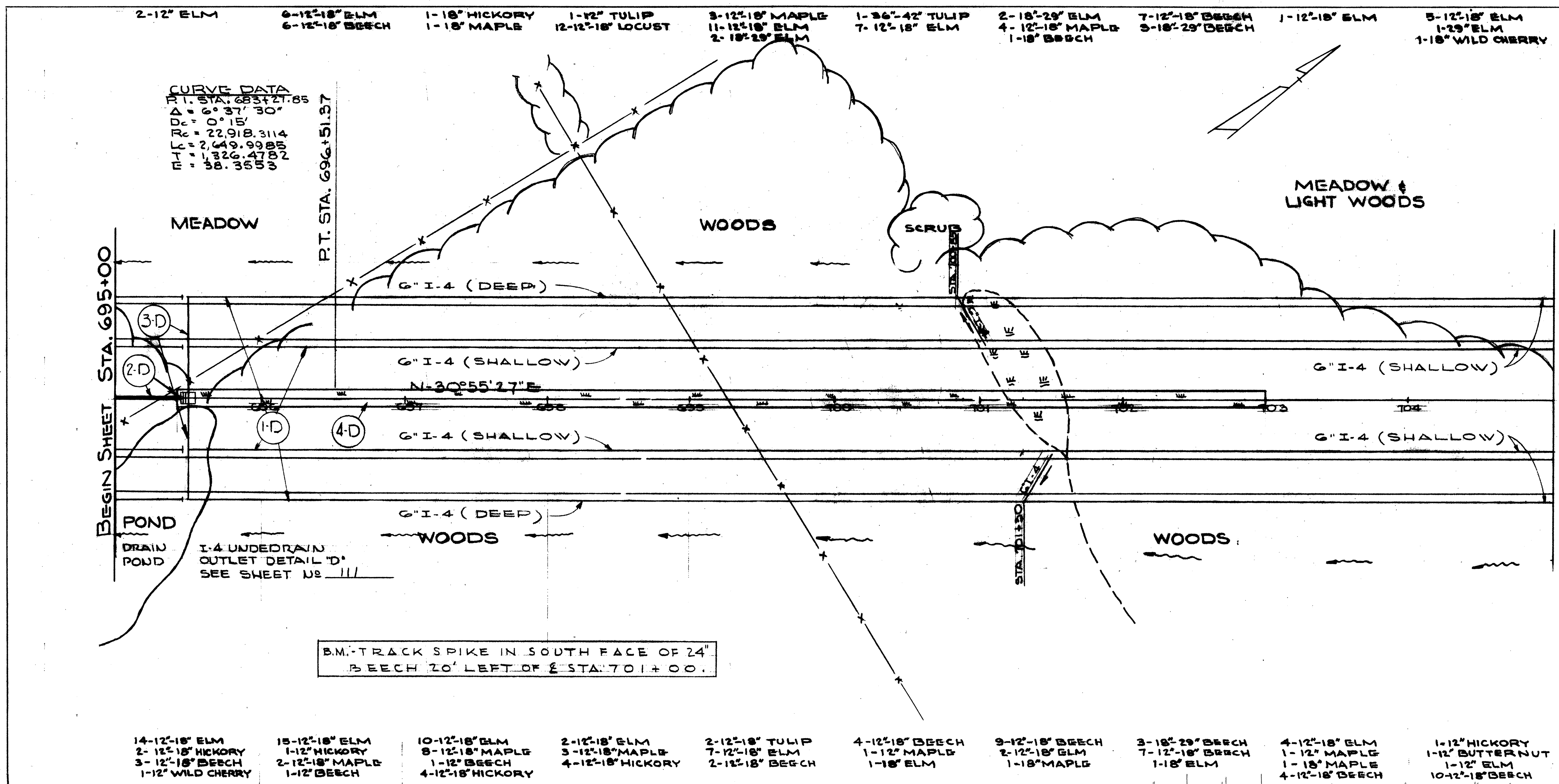
ORIGINAL SURVEY | NOTE BOOK No. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED

FROM STA. 685+00 TO STA. 695+00

REVISED: 31 MAR. '58

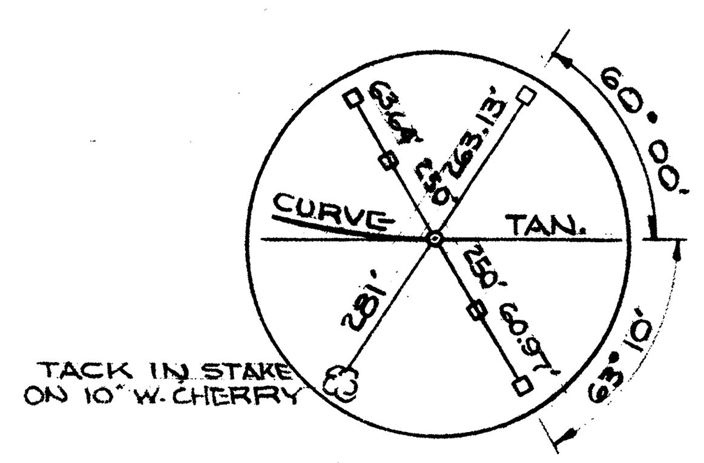
FED. RD.	STATE	PROJECT
2	OHIO	I-1105 (25)

MED-1-10.09



2-12" ELM
6-12"-18" ELM 6-12"-18" BEECH
1-18" HICKORY 1-18" MAPLE
1-12" TULIP 12-12"-18" LOCUST
3-12"-18" MAPLE 11-12"-18" ELM 2-18"-29" ELM
1-36"-42" TULIP 7-12"-18" ELM
2-18"-29" ELM 4-12"-18" MAPLE 1-18" BEECH
7-12"-18" BEECH 3-18"-29" BEECH
1-12"-18" ELM
5-12"-18" ELM 1-29" ELM 1-18" WILD CHERRY
CURVE DATA
P.I. STA. 683+27.65
Δ = 6° 37' 30"
Dc = 0° 15'
Rc = 22,918.3114
Lc = 2,649.9985
T = 1,326.4782
E = 38.3553
P.T. STA. 696+51.37
MEADOW
WOODS
SCRUB
MEADOW & LIGHT WOODS
BEGIN SHEET STA. 695+00
END SHEET STA. 705+00
6" I-4 (DEEP)
6" I-4 (SHALLOW)
N-30°55'27"E
3-D
2-D
1-D
4-D
POND
DRAIN POND
I-4 UNDERDRAIN OUTLET DETAIL "D" SEE SHEET № 111
WOODS
B.M.-TRACK SPIKE IN SOUTH FACE OF 24" BEECH 20' LEFT OF ℄ STA. 701+00.
14-12"-18" ELM 2-12"-18" HICKORY 3-12"-18" BEECH 1-12" WILD CHERRY
15-12"-18" ELM 1-12" HICKORY 2-12"-18" MAPLE 1-12" BEECH
10-12"-18" ELM 8-12"-18" MAPLE 1-12" BEECH 4-12"-18" HICKORY
2-12"-18" ELM 3-12"-18" MAPLE 4-12"-18" HICKORY
2-12"-18" TULIP 7-12"-18" ELM 2-12"-18" BEECH
4-12"-18" BEECH 1-12" MAPLE 1-18" ELM
9-12"-18" BEECH 2-12"-18" ELM 1-18" MAPLE
3-18"-29" BEECH 7-12"-18" BEECH 1-18" ELM
4-12"-18" ELM 1-12" MAPLE 1-18" MAPLE 4-12"-18" BEECH
1-12" HICKORY 1-12" BUTTERNUT 1-12" ELM 10-12"-18" BEECH

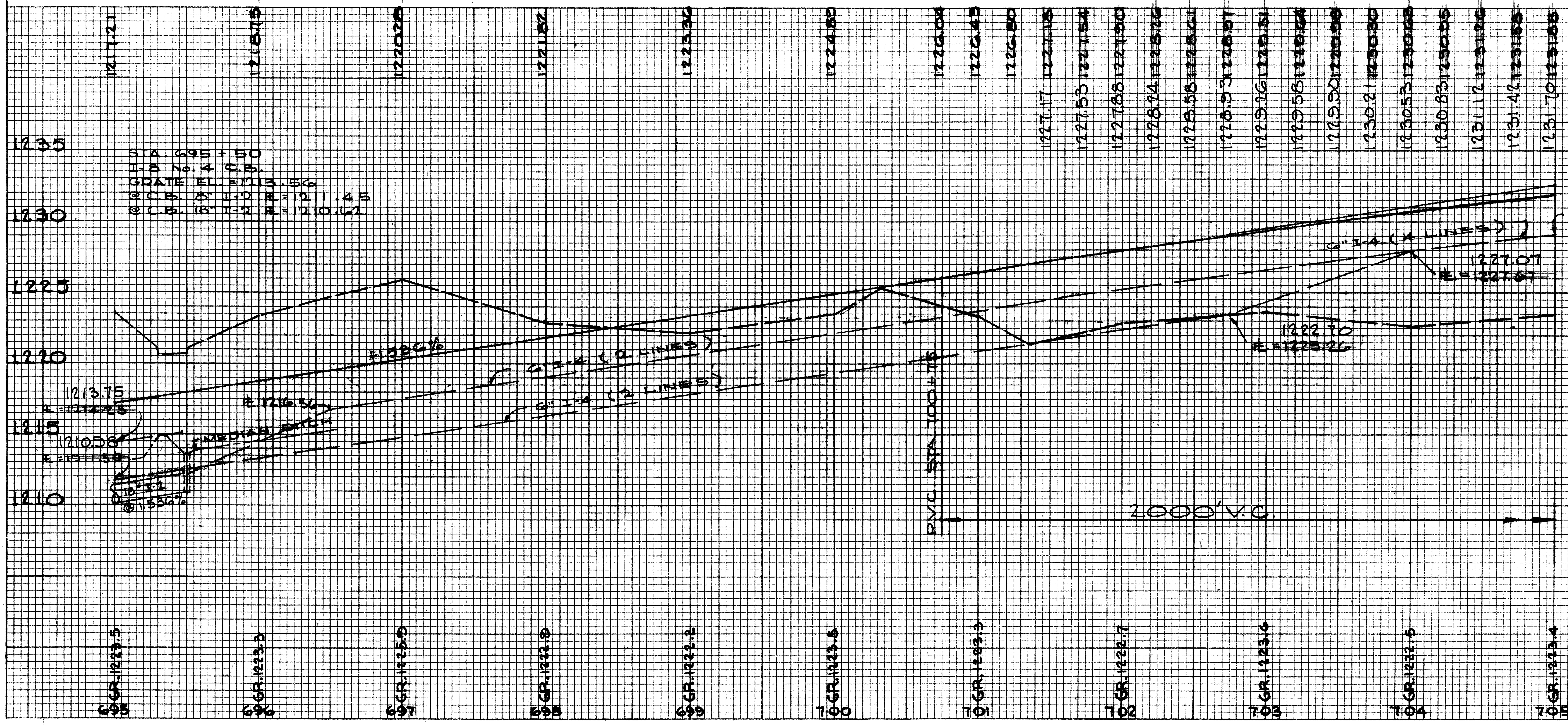
REF. №	STATION FROM	STATION TO	SIDE ℄	I-2 CLASS "A" STORM SEWER LIN. FT. UNDER PAV'T OR APPR. M-6.5b M-6.8b 8" PIPE	I-2 CL. "A" M-6.5b M6.8b M6.4c 18" PIPE	I-4 PIPE UNDERDRAINS LIN. FT. 6" PIPE 18" SHALLOW	I-4 6" PIPE 51" DEEP	8" PIPE OUTLET M6.4a	I-5 PIPE SPECIALS EACH WYE 6" 60°	M-6.5(b) M-6.3(b) TEE 6" 8"x8"	INCR. 6"-8"	BEND 6" 90°	L-10 SODDING MEDIAN SOLID SQ. YDS.	I-8 CATCH BASIN #4 MEDIAN INLETS EACH
1-D	695+00	705+00	R&L			2152	1864		2			2		
2-D	695+00	695+50	℄		48									1
3-D	695+50	—	R&L	112				20		2	2			
4-D	695+50	703+00	℄										1000	



STA. 696+51.67

℄ REFERENCE MONUMENTS STA. 696 + 51.67

DELINEATORS L & R
STA. 695 + 40
696 + 70
698 + 00
699 + 30
700 + 60
701 + 90
703 + 20
704 + 50



1217.21
1218.75
1220.28
1221.82
1223.36
1224.89
1226.04
1226.43
1226.80
1227.17
1227.53
1227.88
1228.24
1228.58
1228.93
1229.26
1229.58
1229.90
1230.21
1230.53
1230.83
1231.12
1231.42
1231.70
1235
1230
1225
1220
1215
1210
STA. 695+50
I-8 No. 4 C.B.
GRATE EL. =1213.56
℄ C.B. 8" I-2 ℄ =1211.45
℄ C.B. 18" I-2 ℄ =1210.62
1213.75
1210.58
MEDIAN DITCH
6" I-4 (2 LINES)
6" I-4 (4 LINES)
1228.24
1227.07
1222.70
P.V.C. STA. 700+75
2000' V.C.
GR. 1223.5
GR. 1223.3
GR. 1225.9
GR. 1222.0
GR. 1222.2
GR. 1223.5
GR. 1223.3
GR. 1222.7
GR. 1223.6
GR. 1222.5
GR. 1223.4
695
696
697
698
699
700
701
702
703
704
705

PLATE 4—CROSS SECTION O.P.R.&R.E. STANDARD
KEUFFEL & ESSER CO. NEW YORK

FROM STA. 695+00 TO STA. 705+00

REVISED: 31 MAR '58

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

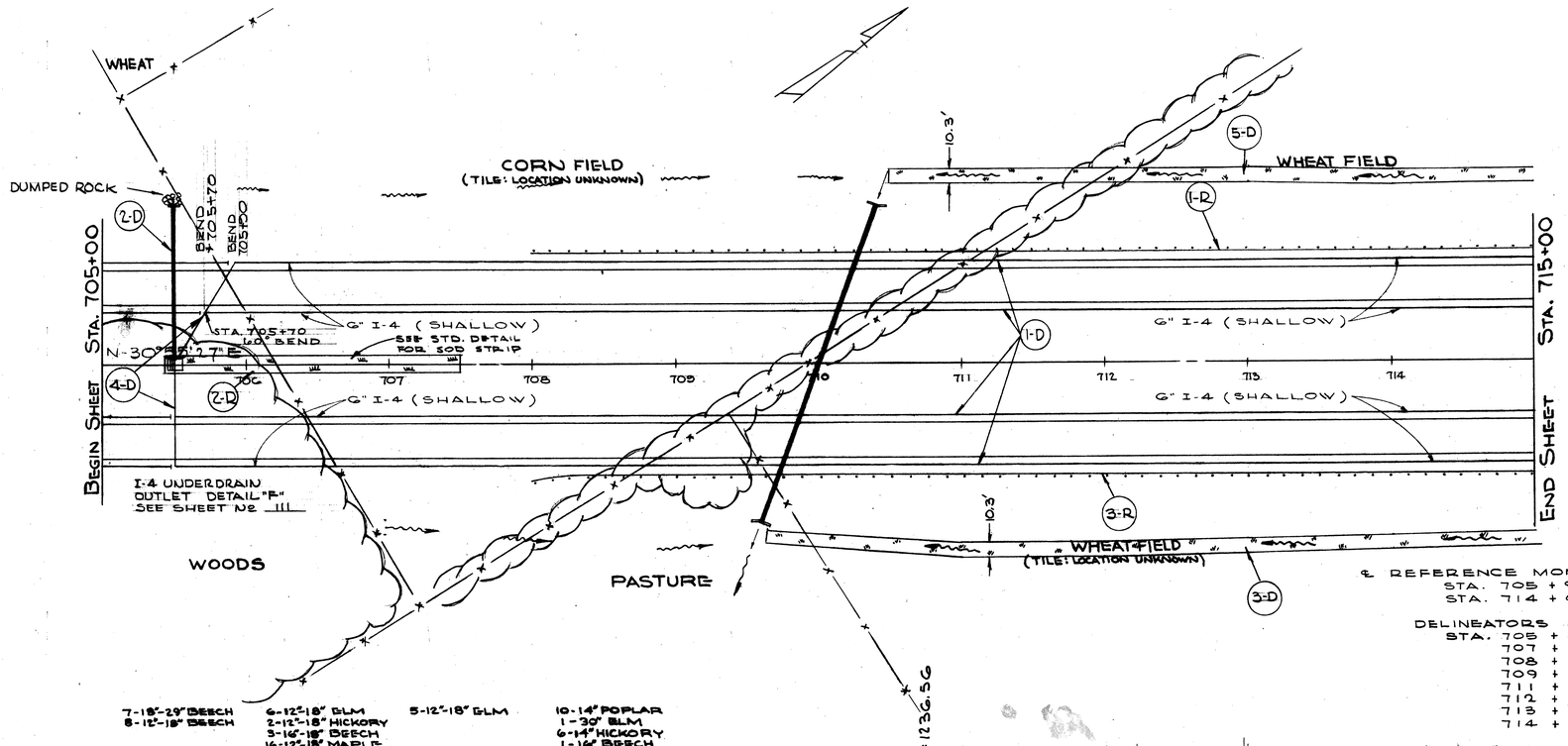
ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

24 / 189

MED-1-10.09

3-12"-18" ELM



DRAINAGE

REF. NO	STATION FROM	STATION TO	SIDE	I-7 CLASS "A" STORM SEWER LIN. FT. UNDER PAV'T OR APPR. M-4.5(b) & M-4.8(b) 6" PIPE	18" PIPE	I-5 PIPE SPECIALS (Ea) WYE 8"x8"x6" M-6.5b M-6.8b	BENDS 6" 30° 45° 60°	TEES 6" M-6.5 M-6.8b	INLETS 6"x6" M-6.5 M-6.8b	I-8 CATCH BASIN MEDIAN INLET EACH #4	HDWALL "A" 5-1 CONC. FOR STRUCT. CLASS "C" CU. YD.	5-4 REINF STEEL LBS.	I-10 DUMPED ROCK CU. YD.	L-10 SODDING SOLID SIDE DITCH SQ. YDS.	I-4 PIPE UNDERDRAIN LIN. FT. 6" PIPE	8" PIPE	18" SHALLOW	51" DEEP	M-6.4 a OUTLET
1-D	705+00	715+00	RεL		108											1002	1002	10	0
2-D	705+50	—	RεL	30						1	3.2	144	15						
3-D	709+70	715+00	RT.											606					
4-D	705+50	—	RεL	121		1		1		2									20
5-D	710+50	715+00	LT.											515					

ROADWAY

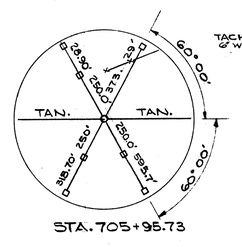
REF. NO	STATION FROM	STATION TO	SIDE	I-15 GUARD RAIL BEAM (2-A) LIN. FT.	L-10 SODDING STRIP MEDIAN SQ YD
1-R	708+00	715+00	LT	700	
2-R	705+50	707+50	℄		54
3-R	708+00	715+00	RT	700	

STRUCTURE

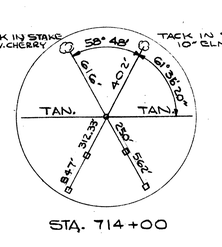
REF NO	STATION	SIDE	$-27 FOR QUANTITIES R'WAY: CULV: 47' LIN. FT.	STRUCT. NO.
1-S	710+00	RεL	232	115	MED-1-11.78

℄ REFERENCE MONUMENTS
STA. 705 + 95.73
STA. 714 + 00

DELINEATORS L & R
STA. 705 + 80
707 + 10
708 + 40
709 + 70
711 + 00
712 + 30
713 + 60
714 + 90



STA. 705+95.73



STA. 714+00

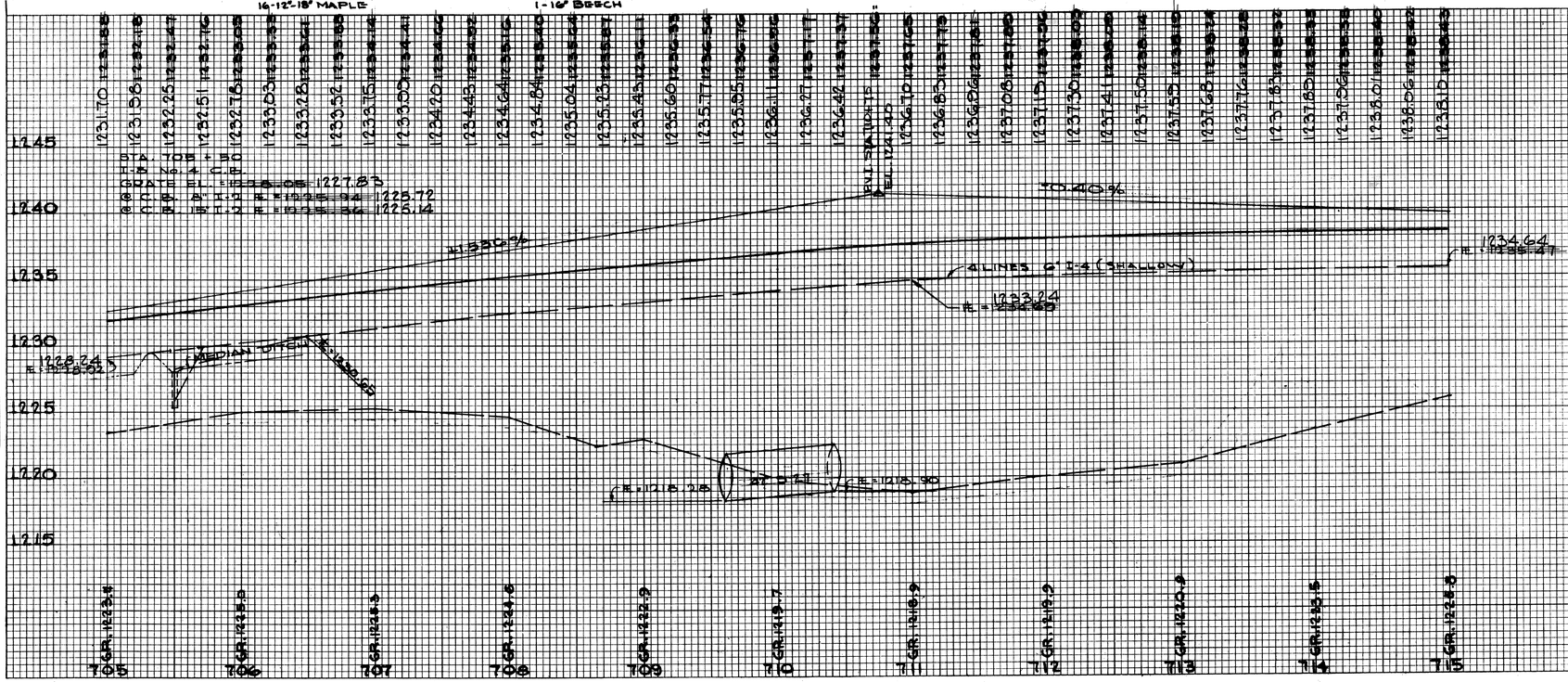


PLATE 1—CROSS SECTION O.P.R.R.R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK

FROM STA. 705+00 TO STA. 715+00 REVISED: 31 MAR. '58

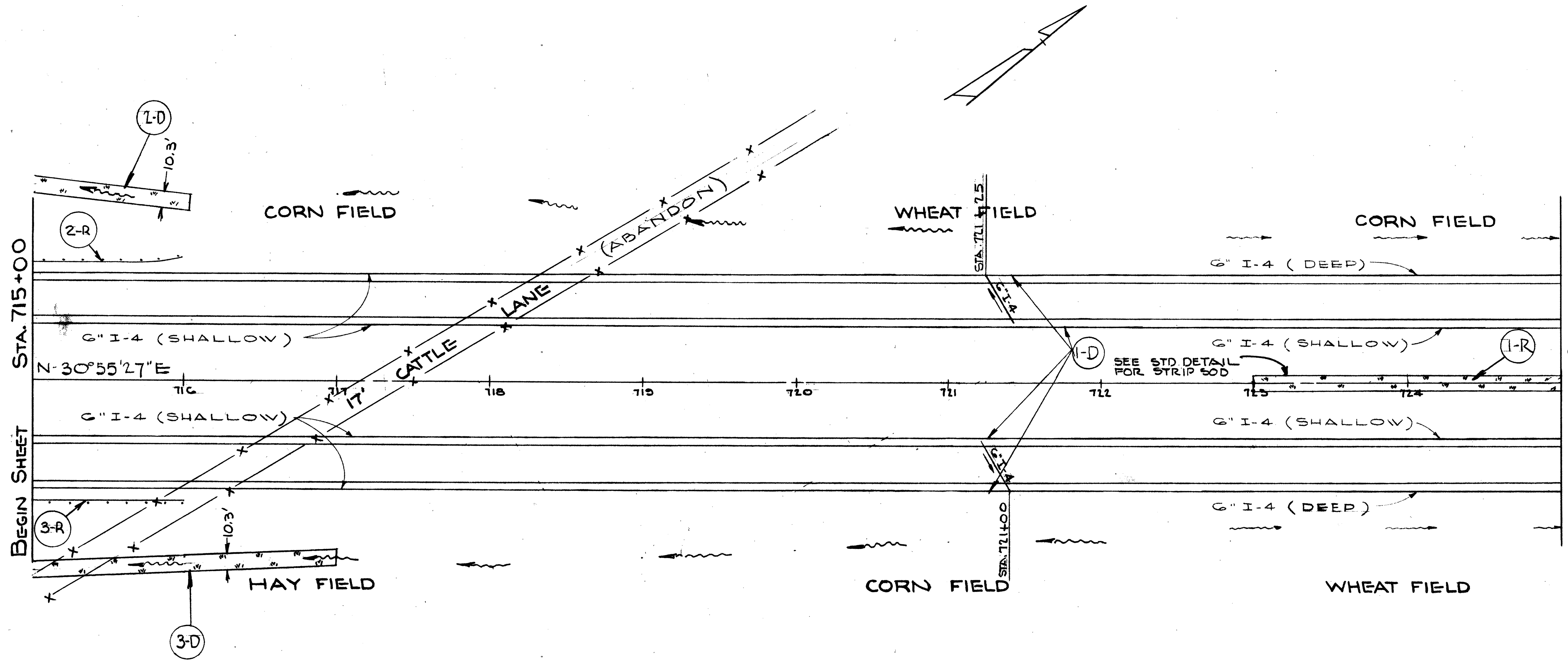
FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED, NOTE BOOK, NO., BY, DATE

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED, NOTE BOOK, NO., BY, DATE

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

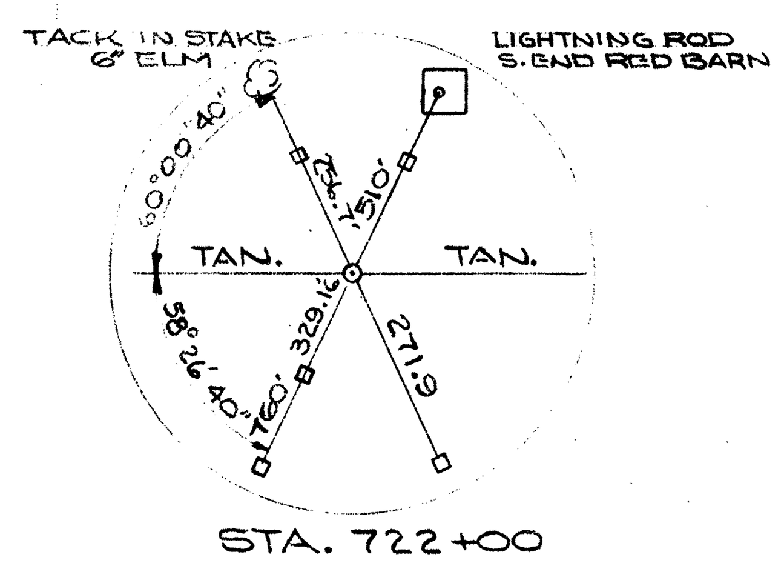
25/185

MED-1-10.09



DRAINAGE											
REF.	STATION		SIDE		I-4 PIPE UNDERDRAIN		I-5 SPECIAL		L-10 SODDING		
					6" PIPE		WYE 6" 60°		SOLID SIDE DITCH		
No	FROM	TO	℄		18" SHALLOW	51" DEEP	EACH		SQ. YDS.		
1-D	715+00	725+00	R&L	716+00	3200	872	2				
2-D	715+00	717+00	RT. LT.						114		
3-D	715+00	717+00	LT RT.						229		

ROADWAY						
REF.	STATION		SIDE	L-10 SODDING	I-15 TYPE 2-B GUARD RAIL STEEL BEAM (DEEP)	
No	FROM	TO	℄	MEDIAN STRIP SQ YD	LIN. FT.	
1-R	723+00	725+00	℄	54		
2-R	715+00	716+00	LT		100	
3-R	715+00	716+00	RT		100	



℄ REFERENCE MONUMENTS
STA. 722+00

DELINEATORS L & R
STA. 716 + 20
717 + 50
718 + 80
720 + 10
721 + 40
722 + 70
724 + 00

FINAL SURVEY — NOTE BOOK No. — PLOTTED, TEMPLATE, AREAS, AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK No. — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED — BY — DATE

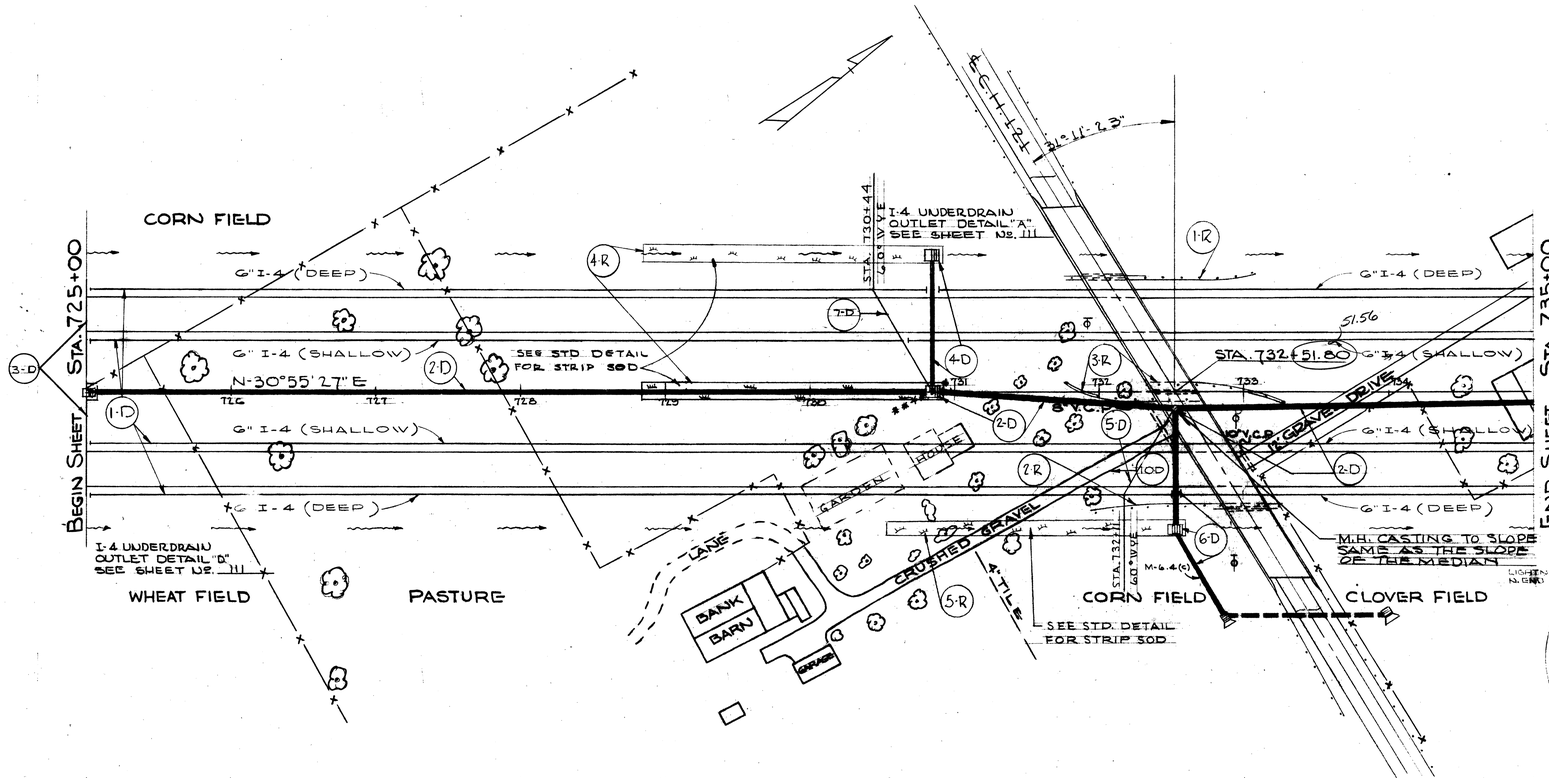
FROM STA. 715+00 TO STA. 725+00

REVISED: 31 MAR. '58

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

26 / 183

MED-I-10.09



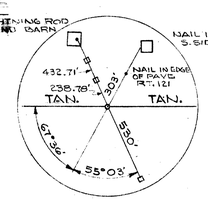
REF. No.	STATION FROM	STATION TO	SIDE ℄	I-2 CLASS "A" STORM SEWER LIN. FT. UNDER PAVT. OR APPR. M-6.5b M-6.8b 8" PIPE	15" PIPE	21" PIPE	CLASS "A" SHALLOW M-6.6b M-6.8b 18"	M-6.6b 27" PIPE	M-6.6b 33" PIPE	M-6.6c 15" PIPE	I-4 PIPE UNDER DRAINS-LIN FT. 6" PIPE 18" SHLLW	51" DEEP	8" PIPE M-6.4a OUT-LET	I-5 PIPE SPECIAL EACH BENDS 6" 90°	TEES 6"x 8"x 8"	INCR. 6"-8"	WYE 60° 6"x6"	WYE 60° 6"x8"	#4 MED-IAN	#5 SIDE DITCH	#1 MAN HOLE
1-D	725+00	735+00	R&L																		
2-D	725+00	735+00	℄				583	164 / 246											2		1
3-D	725+00	—	R&L	112							1992	1992		2			2				
4-D	730+85	—	LT	51	92								20		2	2				1	
5-D	732+11	732+52	RT	~~52~~									10		1		1				
6-D	732+52	—	RT			81				72										1	
7-D	730+85	—	LT	65									10		1		1				

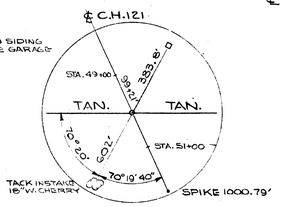
ROADWAY

REF. No.	STATION FROM	STATION TO	SIDE ℄	I-15-2b GUARD RAIL LIN. FT. STEEL BEAM	BARRIER	L-10 STRIP SOD MEDIAN & SIDE DITCH SQ. YDS.
1-R	731+80	733+17	LT	137.5		
2-R	731+95	733+32	RT	137.5		
3-R	731+80	733+27	℄	150	50	108 / ~~105~~
4-R	728+80	730+80	℄ & LT			~~51~~
5-R	730+52	732+52	RT			51 / 54

℄ REFERENCE MONUMENTS
STA. 729 + 57.40 - 2 REQ'D 5' L & R
STA. 732 + 51.56

DELINEATORS L & R
STA 725 + 30
726 + 60
727 + 90
729 + 20
730 + 50
731 + 80
733 + 10
734 + 40





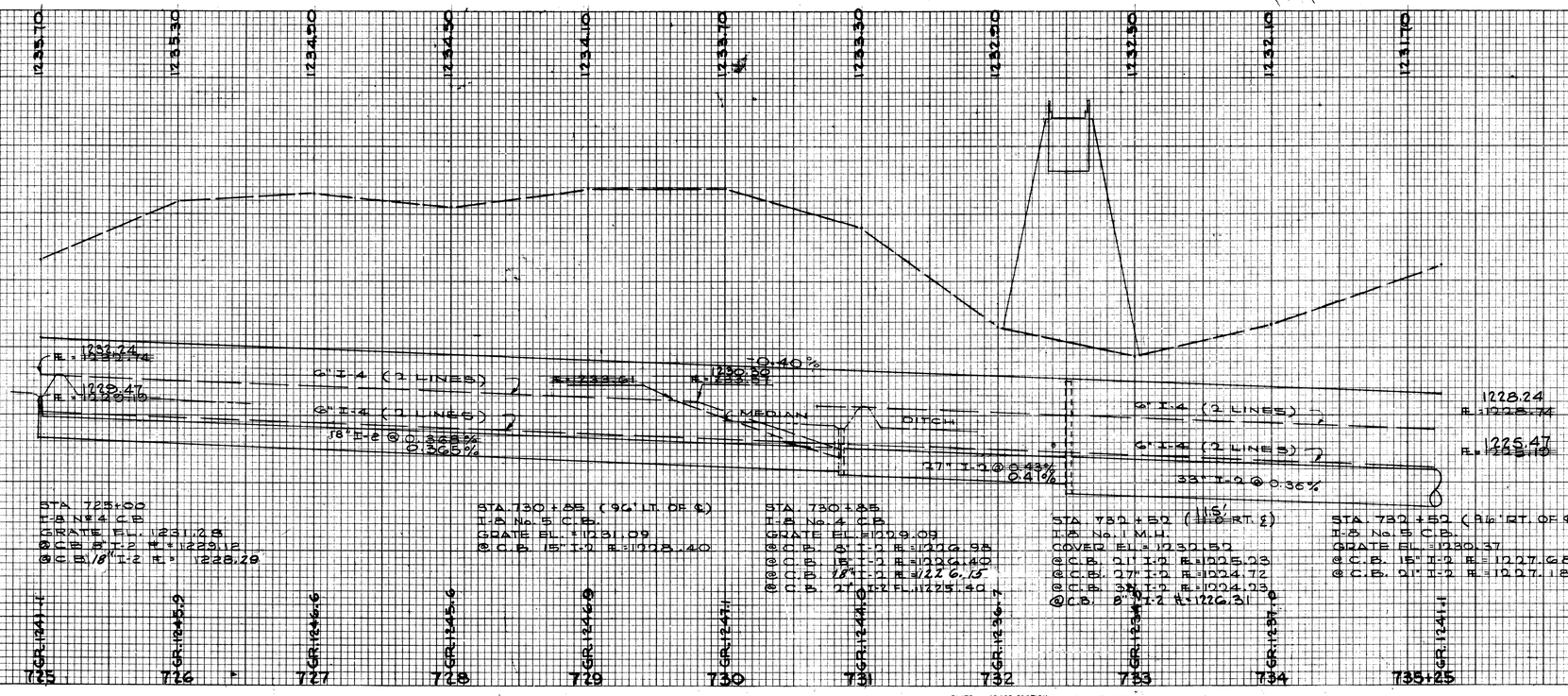


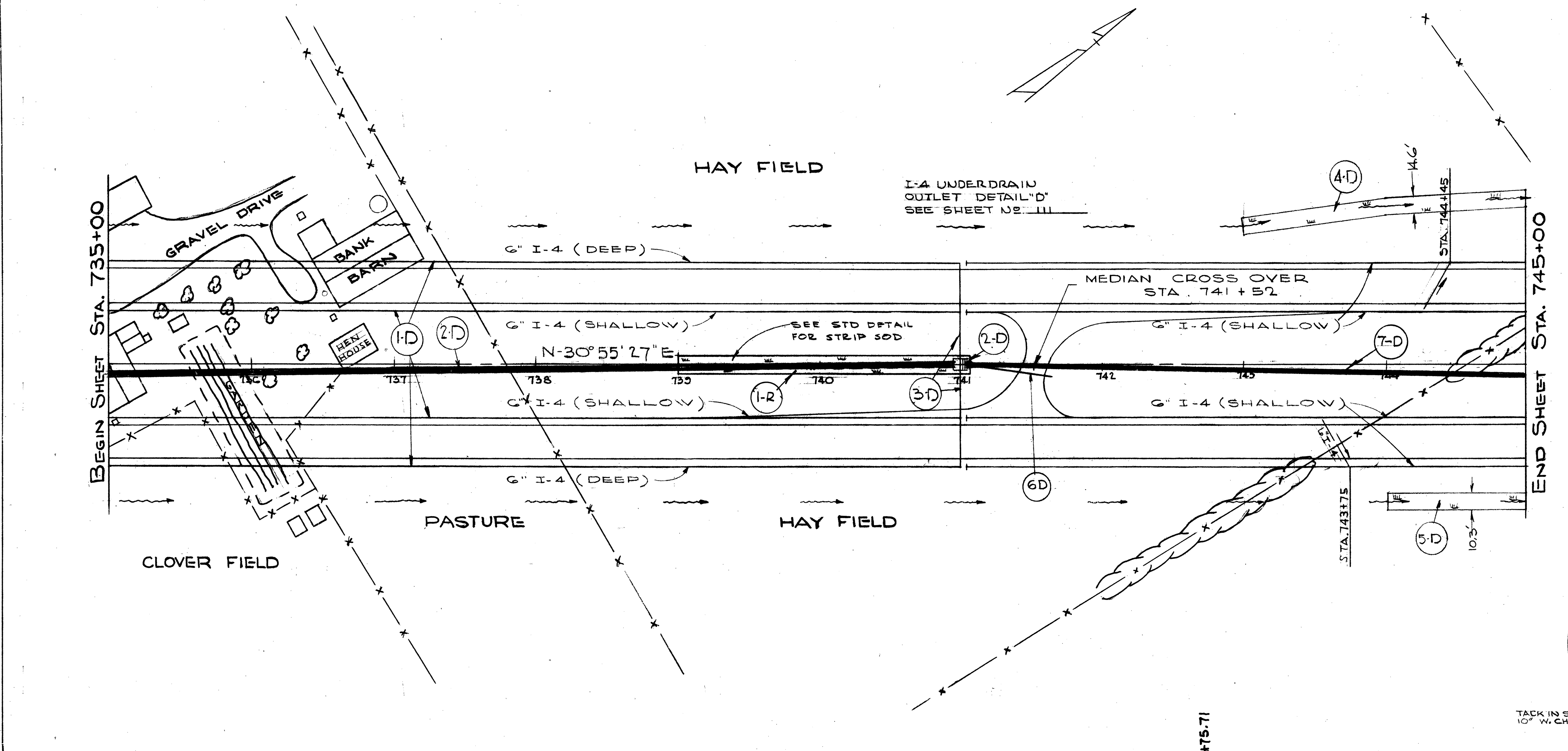
PLATE 1—CROSS SECTION O.P.R.&R.E. STANDARD
KELLFFEL & ESSER CO., NEW YORK

FROM STA. 725+00 TO STA. 735+00 REVISED: 31 MAR. '58

FED. RD.	STATE	PROJECT
2	OHIO	I-1105 (25)

27 / 185

MED-1-10.09

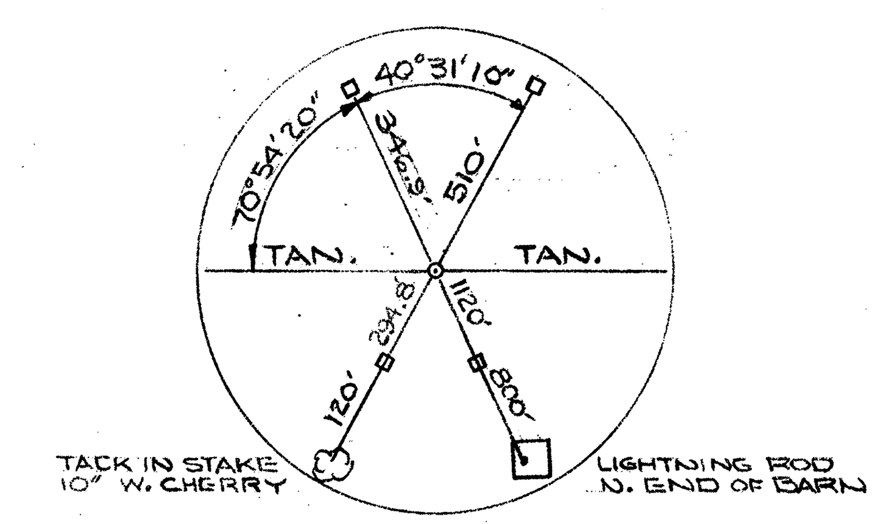


REF. Nº	STATION FROM	STATION TO	SIDE ℄	I-2 CLASS "A" STORM SEWER LIN. FT. M 6.5b M-6.8b 8" PIPE UND'R. PAVT OR APPR	I-2 CLASS "A" M-6.6a PIPE 33"	I-2 CLASS "A" M-6.6a PIPE 36"	I-4 PIPE UND'R DR'N LIN. FT. 6" PIPE SHALLOW	I-4 6" PIPE DEEP	I-4 M-6.4a 8" PIPE OUTLET	I-5 PIPE SPEC EACH BEND 6" 90°	I-5 WYE 6" 60°	I-5 TEE M-6.5b M-6.8b 6" 8"x8"	I-5 INC'R 6"-8"	I-8 CATCH BASIN EA. #4 MEDIAN INLET	L-10 SODDING SIDE DITCH SOLID SQ. YDS.
1-D	735+00	745+00	R&L				2820	1200		2	2				
2-D	735+00	741+00	℄		598									1	
3-D	741+00	—	R&L	112					20			2	2		
4-D	743+00	745+00	LT												325
5-D	744+00	745+00	RT												115
6-D	741+00	741+60	RT				50		10						
7-D	741+00	745+00	℄			398									

REF. Nº	STATION FROM	STATION TO	SIDE ℄	L-10 STRIP-SOD MEDIAN & SIDE DITCH SQ. YDS.
1-R	739+00	741+00	℄	54

℄ REFERENCE MONUMENTS STA. 740 + 78.25 2 REQ'D 5' RT 5' LT

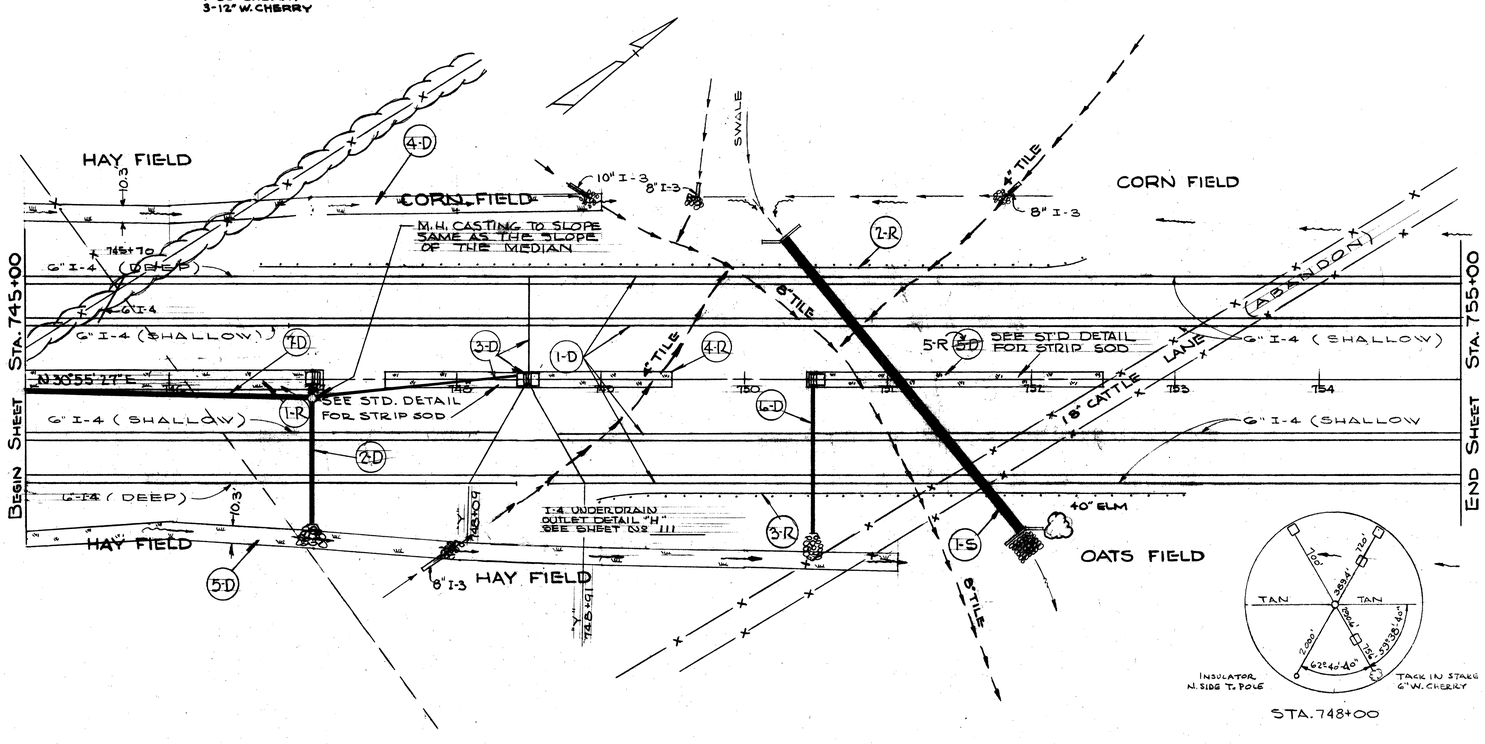
DELINEATORS L & R
STA. 735 + 70
737 + 00
738 + 30
739 + 60
741 + 90
742 + 20
743 + 50
744 + 80



STA. 740+78.25

PLATE 4—CROSS SECTION O.P.R.& R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK

FROM STA. 735+00 TO STA. 745+00 REVISED 31 MAR. '58



FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

28
189

MED-1-10.09

D R A I N A G E

REF. Nº	STATION FROM	STATION TO	SIDE ℄	I-2 CLASS "A" STORM SEWER LIN. FT. UNDER PAV'T OR APPR. OR SHALLOW M-6.5b M-6.8b 8" PIPE	I-2 M-6.5b M-6.8b 15" PIPE	I-2 M-6.6a 36" PIPE M-6.8b	I-2 M-6.5d	I-2 18" PIPE	I-3 R'DWAY DRAIN. PIPE L.F. M-6.4a 8"	I-3 10"	I-4 PIPE UNDERDRAIN LIN. FT. 6" PIPE 18" SHALLOW	I-4 6" PIPE 51" DEEP	I-4 8" PIPE OUTLET M-6.4 (a)	S-29 EROSION CONTROL PAD 2" AGGR. 6" DEPTH C.Y.	I-5 PIPE SPECIALS EACH WYE 6"-60°	I-5 M-6.5b; M-6.8b WYE 8"-60°	I-5 DOUBLE TEE 6"x8"	I-5 INCREASER 6"x8"	I-5 TEE 8"x8"	I-5 BEND 15"-30° M-6.4C	I-8 CATCH BASIN EACH Nº 4 MEDIAN INLET	I-8 Nº 1 ST'D MAN-HOLE	HEAD-WALL TYPE "A" 5-1 CONC. FOR STRUCT. CL. "C" (C.Y.)	HEAD-WALL S-4 REINF. STL. (LBS.)	I-10 DUMPED ROCK (CU. YDS.)	L-10 SODDING 2" SOLID SOD (SQ. YDS.)	I-2 CLASS "A" STORM SEWER M-6.4C 15" PIPE L.F.	△ I-2 CLASS "A" STORM SEWER M-6.6a 36" PIPE L.F.
1-D	745+00	755+00	R & L			88			30	10	3197	798		1.16	3													
2-D	747+00	—	℄ & RT.			~~94~~	11													0	1	1	8.0	419	27			
3-D	748+50	—	℄ & RT.	186			148						30			2	1	4	1	~~2~~	1	0	~~3.3~~	~~146~~	0			
4-D	745+00	750+00	LT.																							588		
5-D	745+00	751+88	RT.		84																		3.2			801		
6-D	750+50	—	℄ & RT		~~82~~															2			~~3.3~~	146	15		27	
7-D	745+00	747+00	℄.			~~198~~ 0																						198

R O A D W A Y

REF. Nº	STATION FROM	STATION TO	SIDE ℄	L-10 SODDING MEDIAN STRIP SQ. YD.	I-15 2-B GUARD RAIL BEAM LIN. FT.	
1-R	745+00	747+00	℄	~~51~~54		
2-R	746+62	752+00	LT.		587.5	
3-R	749+00	753+08	RT.		412.5	
4-R	747+50	749+50	℄	~~51~~54		
5-R	750+50	752+50	℄	~~51~~54		

S T R U C T U R E S

REF. Nº	STATION FROM	STATION TO	SIDE ℄	S-27 60" R'DWAY CULVERT LIN. FT.	FOR QUANT. SEE SHEET Nº	STRUCT Nº.
1-S	751+08	—	R & L	278	120	MED-1-1256

℄ REFERENCE MONUMENTS
STA. 748+00

DELINEATORS L & R
STA. 746+10
747+40
748+70
750+00
751+30
752+60
753+90

FINAL SURVEY
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
NOTE BOOK
NO.
BY
DATE

ORIGINAL SURVEY
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
NOTE BOOK
NO.
BY
DATE

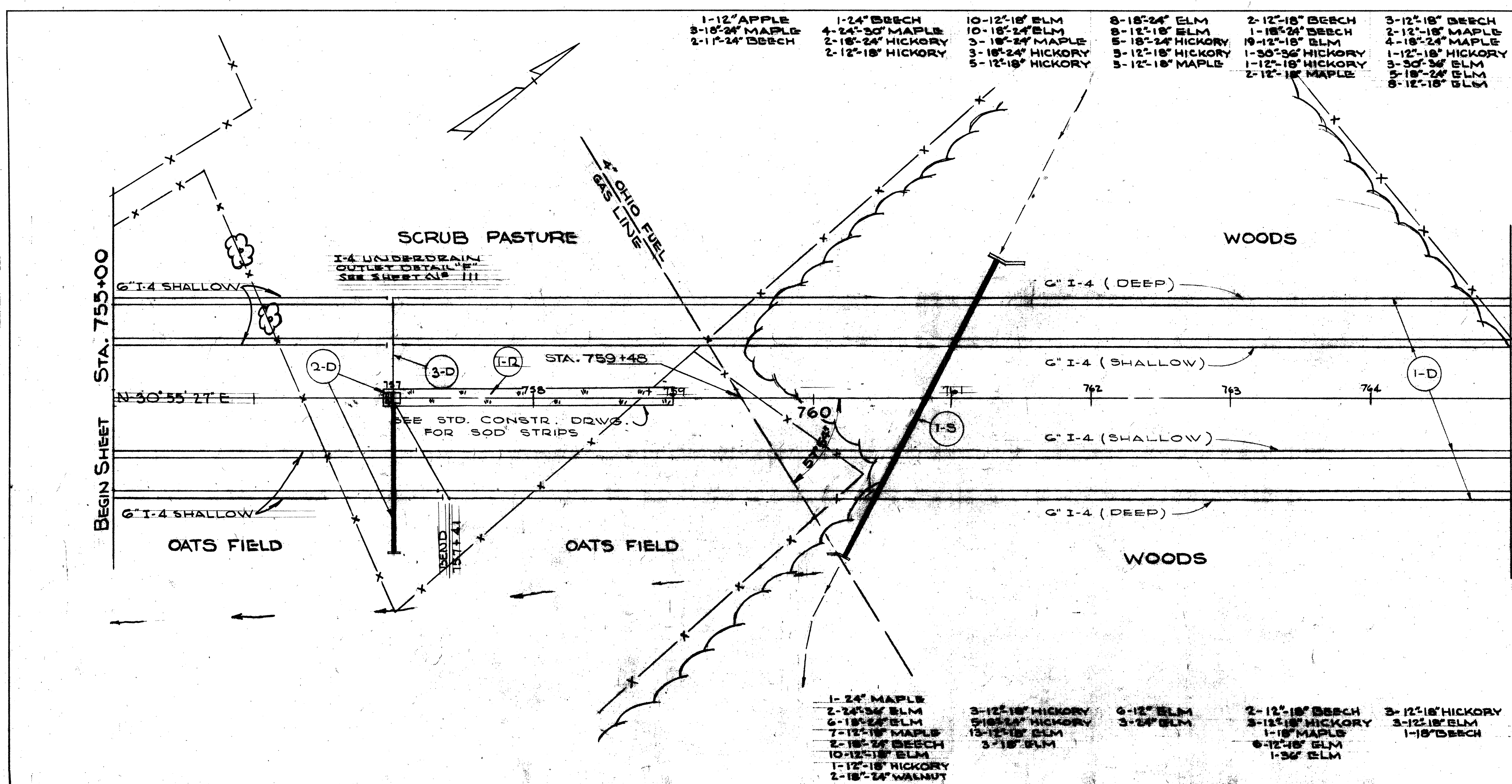
PLATE 4—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK

FROM STA. 745+00 TO STA. 755+00

△ REVISED 31 MAR. '58

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

MED-1-10.09


1-12" APPLE
3-18"-24" MAPLE
2-11"-24" BEECH
1-24" BEECH
4-24"-30" MAPLE
2-18"-24" HICKORY
2-12"-18" HICKORY
10-12"-18" ELM
10-18"-24" ELM
3-18"-24" MAPLE
3-18"-24" HICKORY
5-12"-18" HICKORY
8-18"-24" ELM
8-12"-18" ELM
5-18"-24" HICKORY
3-12"-18" HICKORY
3-12"-18" MAPLE
2-12"-18" BEECH
1-18"-24" BEECH
19-12"-18" ELM
1-30"-36" HICKORY
1-12"-18" HICKORY
2-12"-18" MAPLE
3-12"-18" BEECH
2-12"-18" MAPLE
4-18"-24" MAPLE
1-12"-18" HICKORY
3-30"-36" ELM
5-18"-24" ELM
8-12"-18" ELM
BEGIN SHEET STA. 755+00
END SHEET STA. 765+00
SCRUB PASTURE
WOODS
OATS FIELD
OATS FIELD
WOODS
4" OHIO FUEL GAS LINE
I-4 UNDERDRAIN OUTLET DETAIL "F" SEE SHEET Nº 111
6" I-4 SHALLOW
6" I-4 SHALLOW
6" I-4 (DEEP)
6" I-4 (SHALLOW)
6" I-4 (SHALLOW)
6" I-4 (DEEP)
N 30°55' 27" E
STA. 759+48
SEE STD. CONSTR. DRWG. FOR SOD STRIPS
2-D
3-D
1-R
1-D
1-S
760
END 757+41
1-24" MAPLE
2-24"-36" ELM
6-18"-24" ELM
7-12"-18" MAPLE
2-18"-24" BEECH
10-12"-18" ELM
1-12"-18" HICKORY
2-18"-24" WALNUT
3-12"-18" HICKORY
5-18"-24" HICKORY
13-12"-18" ELM
3-18" ELM
6-12" ELM
3-24" ELM
2-12"-18" BEECH
3-12"-18" HICKORY
1-18" MAPLE
6-12"-18" ELM
1-36" ELM
3-12"-18" HICKORY
3-12"-18" ELM
1-18" BEECH

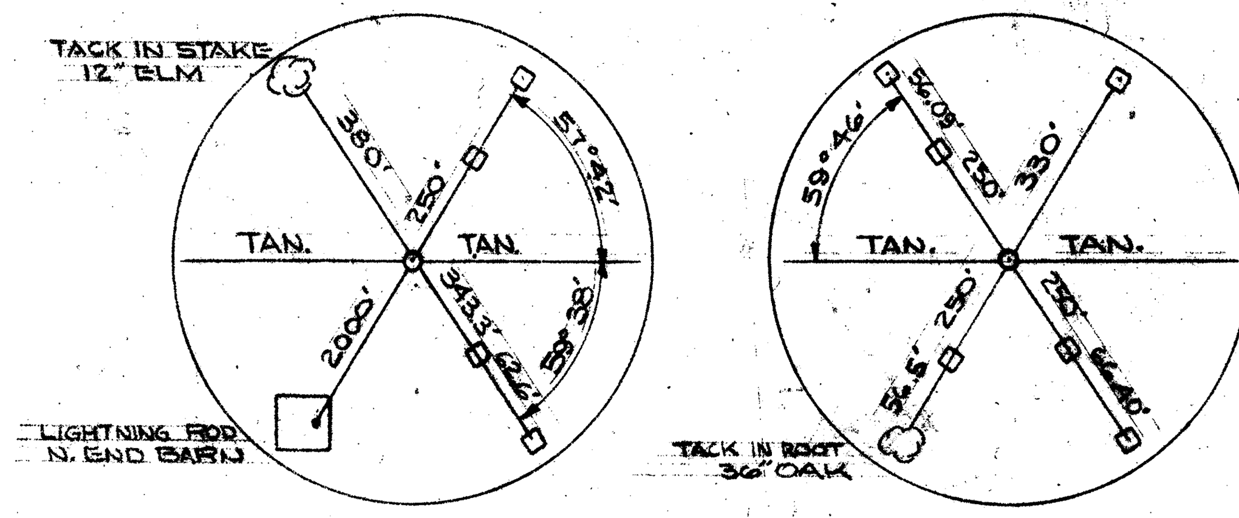
DRAINAGE																			
REF.	STATION		SIDE	I-2 CL. "A" STORM SEWER LIN. FT. — UNDER PAVT. OR APPROACH (M-5.5b, M-6.8b)		(M-6.4c)	I-4 PIPE UNDERDRAIN L.F. — 6" PIPE		8" PIPE	I-5 PIPE SPECIALS EACH — BENDS			WYE	TEES	INC'R	I-8 CATCH BASIN EACH	I-10 DUMPED ROCK	HEADWALL "A" S-1 CONC FOR STRUCT CL. "C"	S-4 REIN. STEEL
Nº	FROM	TO	℄	8" PIPE	15" PIPE	15" PIPE	18" SH'LLW	51" DEEP	OUTLET (M-6.4b)	6" 90°	6" 60°	15" 30° M-6.4c	6"x8"x8" 60°	6"x8"x8"	6"-8"	*4 MEDIAN INLET	CU. YDS.	CU. YDS.	LBS.
1-D	755+00	765+00	L&R				1796	2196		1	1								
2-D	757+00	—	L&R		82	24	2432	1560				2				1	15	3.2	144
3-D	757+00	—	L&R	121					20				1	1	2				

ROADWAY				
REF. Nº	STATION FROM	STATION TO	SIDE ℄	L-10 SODDING MEDIAN STRIP SQ. YDS.
1-R	757+00	759+00	℄	54

STRUCTURE					
REF. Nº	STATION	SIDE ℄	S-27 30" PIPE RDWY CULVERT LIN. FT.	FOR QUANTITY SEE SHEET Nº	STRUCT Nº
1-S	760+82	L&R	280	120	MED-1-12.74

℄ REFERENCE MONUMENTS
STA. 756+00
STA. 764+78.07

DELINEATOR L&R.
STA. 755+20
756+50
757+80
759+10
760+40
761+70
763+00
764+30



STA. 756+00

STA. 764+78.07

FROM STA. 755+00 TO STA. 765+00

REVISED: 31 MAR. '58

FINAL SURVEY — NOTE BOOK / NO. — SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK / NO. — SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED — BY — DATE

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

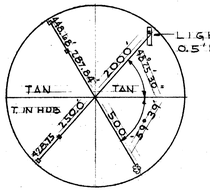
30
183

MED-1-10.09

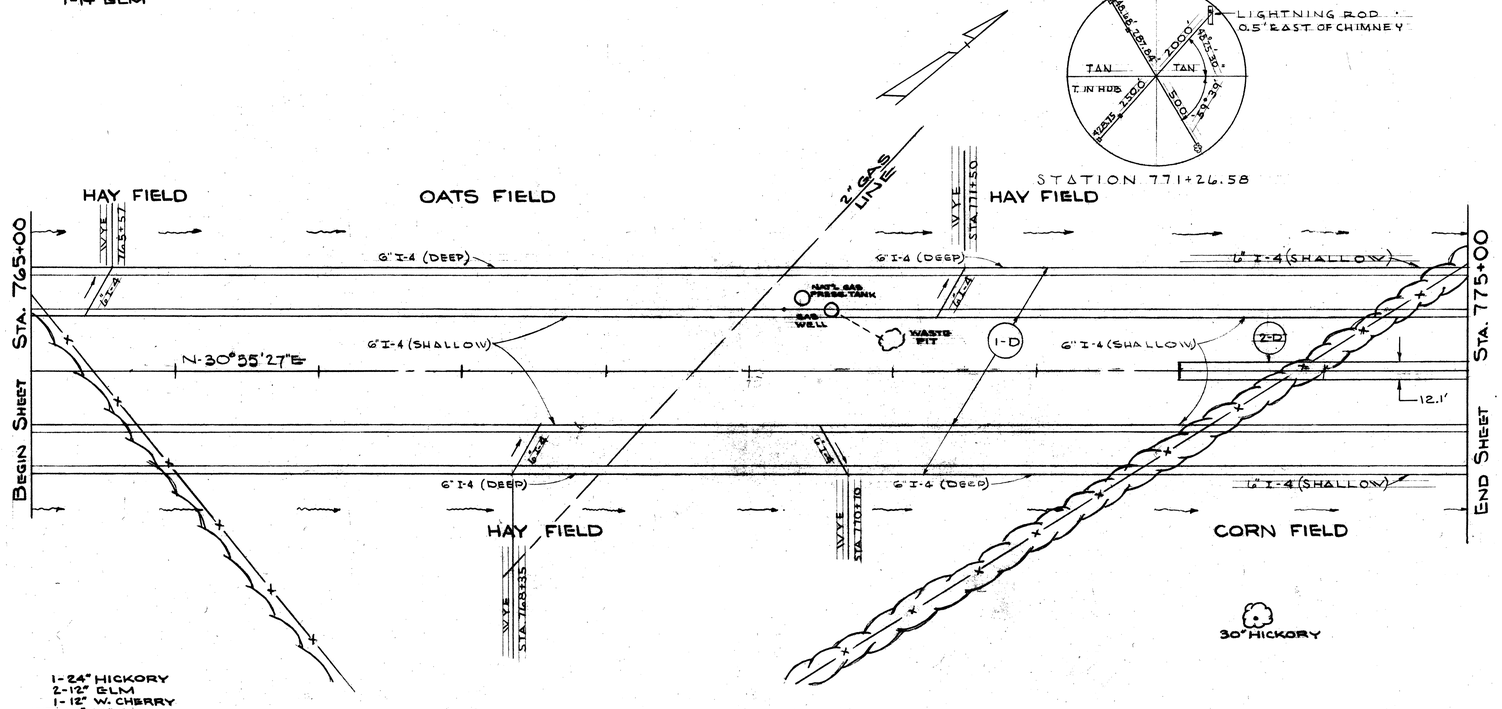
1-18" MAPLE
1-14" BLM

8-12"-18" ELM

LIGHTNING ROD
0.5' EAST OF CHIMNEY



STATION 771+26.58



1-24" HICKORY
2-12" ELM
1-12" W. CHERRY
5-18"-24" ELM
1-24" ELM
8-12"-18" MAPLE
2-24"-30" MAPLE
1-30" WITCHAZEL
1-24" WITCHAZEL
1-30" ELM
1-24" ELM
1-24" W. CHERRY
1-13" ELM

DRAINAGE

REF. Nº	STATION FROM	STATION TO	SIDE ℄	I-5 PIPE SPECIALS EACH WYE 12" PIPE 60°	I-4 PIPE UNDERDRAINS EACH 12" PIPE 18" SHALLOW	I-4 PIPE UNDERDRAINS EACH 12" PIPE 51" DEEP	I-10 SODDING MED. DITCH SOLID SQ. YDS.
1-D	765+00	775+00	L-R	3-4	2400	1768	
2-D	773+00	775+00	℄				270

℄ REFERENCE MONUMENTS
STA. 771+26.58 - 2 REQ'D 5'RT & 5'LT ℄

DELINEATOR L. & R.
STA. 765+60
766+90
768+20
769+50
770+80
772+10
773+40
774+70

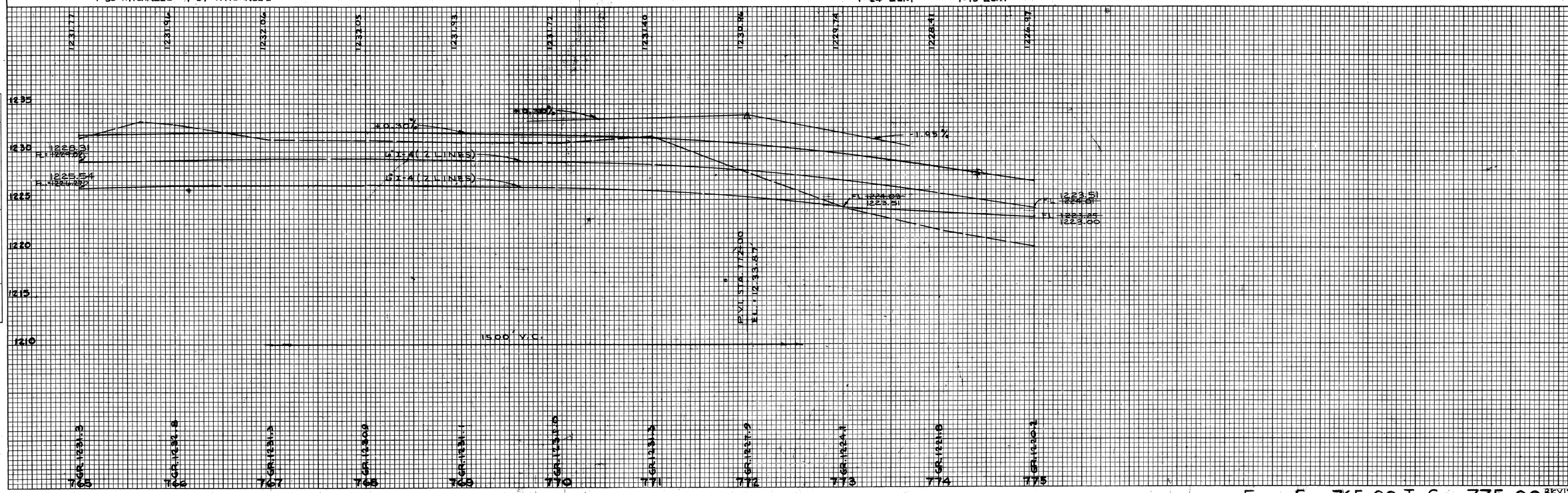


PLATE 1—CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK

FROM STA. 765+00 TO STA. 775+00

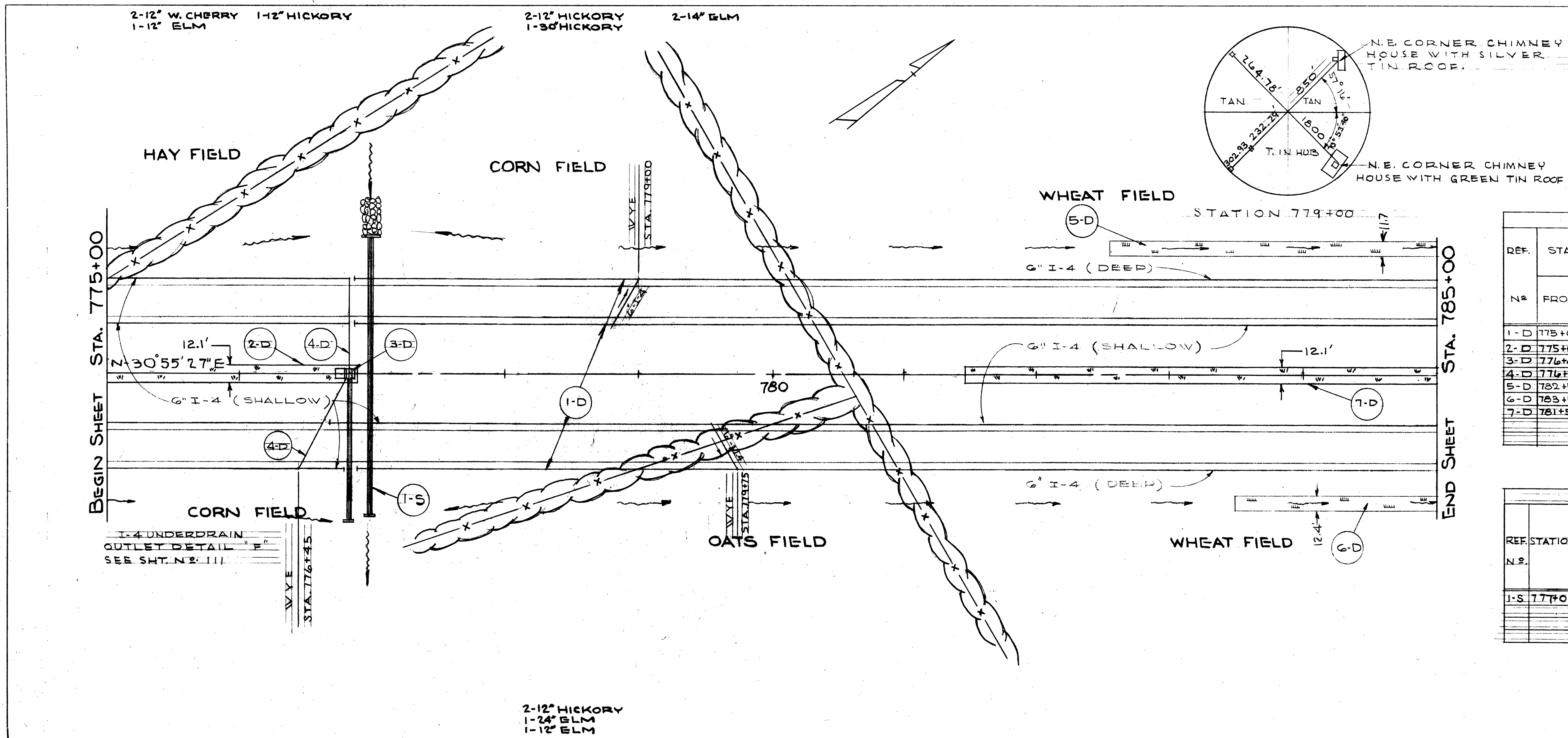
REVISED: 31 MAR. '58

FINAL SURVEY — BY — DATE
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
NOTE BOOK
NO.

ORIGINAL SURVEY — BY — DATE
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
NOTE BOOK
NO.

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	31/189

MED-I-10.09



DRAINAGE

REF. No.	STATION FROM	STATION TO	SIDE ℄	I-2 CL. "A" STORM SEWER LIN. FT. UNDER PAV'T OR APPR. M-6.5(b) M-6.8(b) 8" PIPE	15" PIPE			I-4 PIPE UNDERDRAIN 6" PIPE 18" SHALLOW	51" DEEP	8" PIPE OUTLET M-6.4 (2)	I-5 PIPE SPECIALS EACH BEND 6" 90°	WYE 6"x6" 60°	TEES M-6.5(b) M-6.8(b) 6" x8"x8"	INCR 6"-8"	WYE 60° 6" x8"x8"	I-8 CATCH BASIN EACH *4 MEDIAN DITCH INLET		L-10 SODDING MEDIAN & SIDE DITCH SOLID SQ.YDS.	I-10 DUMPED ROCK CU. YDS.	HEADWALL TYPE "A" S-1 CONC. FOR STRUCT. CL. "C" CU. YDS.	S-4 REIN. STL. LBS.
1-D	775+00	785+00	L & R					1552	2064		1	3									
2-D	775+00	776+86	℄		1127													250		3.27	
3-D	776+86	-	℄ & RT.		~~99~~											1				~~3.3~~	146
4-D	776+86	-	℄ & RT.	121						20			1	2	1						
5-D	782+55	785+00	LT.															320			
6-D	783+50	785+00	RT.															208			
7-D	781+50	785+00	℄															470			

STRUCTURE

REF. No.	STATION	SIDE ℄	S-27 30" PIPE FOR RDWY CULVERT LIN. FT.	FOR QUANT. SEE SHT. No.	STRUCTURE No.
1-S	777+00	R & L		125	MED. 1-13.05

℄ REFERENCE MONUMENTS
STA. 779+00 - 2 REQ'D 5' RT & 5' LT ℄

DELINEATOR L. & R.
STA. 776+00
777+30
778+60
779+90
781+20
782+50
783+80

△ REVISED 3-31-58

FINAL SURVEY: SURVEYED, PLOTTED, NOTE BOOK, TEMPLATE, AREAS, AREAS CHECKED, NO. — BY — DATE

ORIGINAL SURVEY: SURVEYED, PLOTTED, NOTE BOOK, TEMPLATE, AREAS, AREAS CHECKED, NO. — BY — DATE

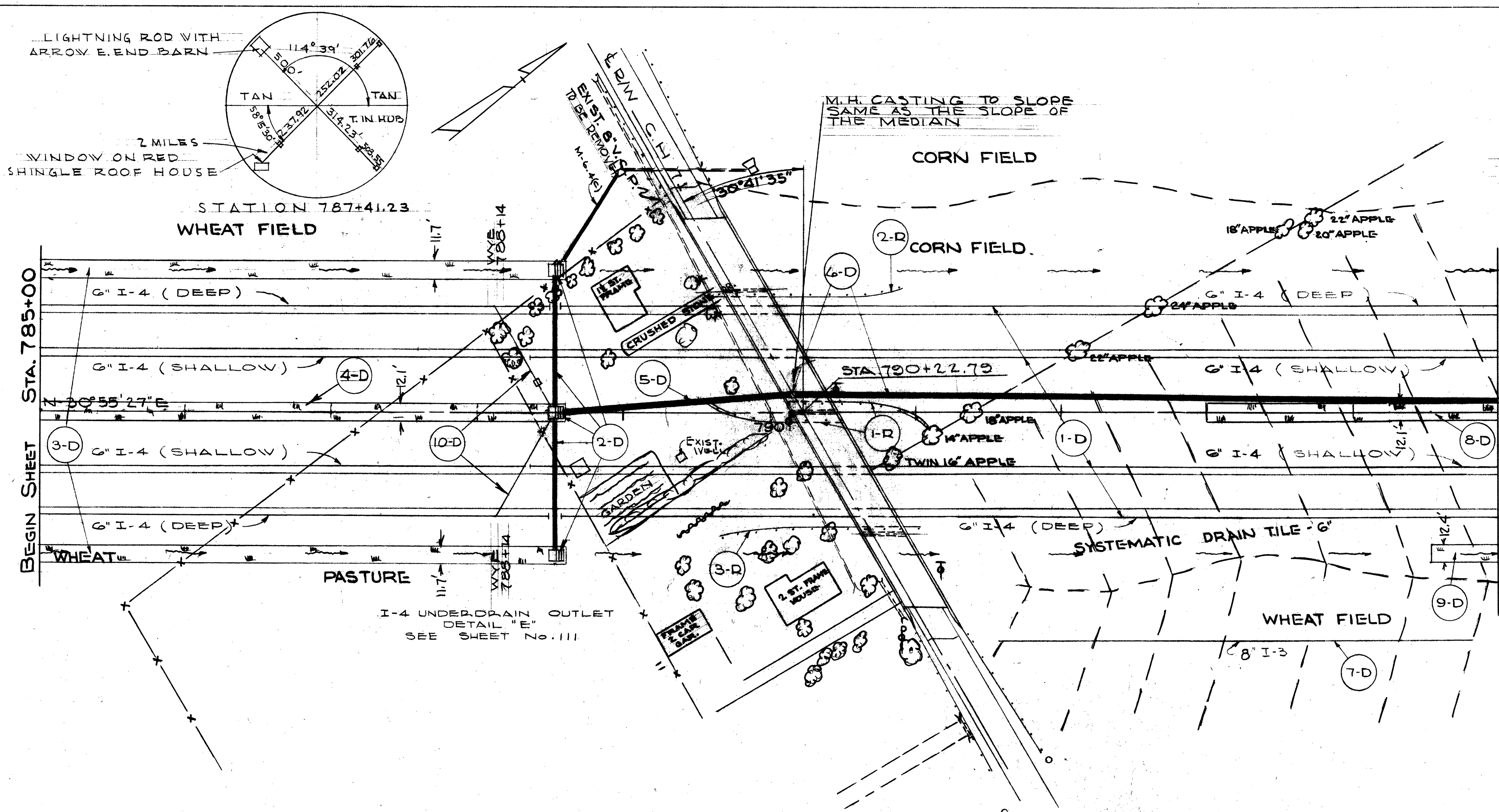
FROM STA. 775+00 TO STA. 785+00

FED. RD.	STATE	PROJECT
2	OHIO	I-1105 (25)

MED-I-10.09

℄ REFERENCE MONUMENTS
STA. 787+41.23 2 REQ'D 5' RT & 5' LT ℄

DELINEATOR L & R.
STA. 785+10
786+40
787+70
789+00
790+30
791+60
792+90
794+20



DRAINAGE																				
REF	STATION		SIDE	I-2 CL."A" STORM SEWER LIN. FT.					I-4 PIPE UNDERDRAIN EACH			I-5 PIPE SPECIALS EACH				I-8 CATCH BASIN EACH			L-10 SODDING MEDIAN OR SIDE DITCH SOLID SQ. YDS.	I-3 R'DWY DRAIN 8" PIPE LIN. FT.
				UNDER PAV'T. OR APPR. M-6.5b M-6.8b	UNDER PAV'T. OR APPR. M-6.5b M-6.8b	CLASS "A" M-6.4c	CLASS "A"	CLASS "A" M-6.6a	6" PIPE	6" PIPE	M-6.4a		WYE	WYE M-6.5b M-6.8b	INC'R M-6.5b M-6.8b					
No	FROM	TO	℄	8" PIPE	18" PIPE	12" PIPE		27" PIPE	18" SHALLOW	51" DEEP	8" PIPE OUTLET		6" 60°	6" x8" x8"	6"-8"	#4 MEDIAN INLET	#5 SIDE DITCH INLET	#1 MAN HOLE		
1-D	785+00	795+00	R&L						1992	1992			2							
2-D	788+55	—	R&L		184	90										1	2			
3-D	785+00	788+55	R&L																926	
4-D	785+00	788+55	℄																470	
5-D	788+55	790+22	℄					163												
6-D	790+22	795+00	L & ℄					478										1		
7-D	791+40	794+80	RT										7							345
8-D	793+00	795+00	℄																267	
9-D	794+55	795+00	RT.																60	
10-D	788+55	—	R&L	130							20			2	2					

ROADWAY						
REF	STATION		SIDE	I-15 2-B GUARD RAIL LIN. FT.		
No	FROM	TO	℄	STEEL BEAM	BARRIER	
1-R	788+56	791+10	℄	150	50	
2-R	789+56	790+92	LT.	137.5		
3-R	789+67	791+03	RT.	137.5		

BRIDGE No MED-I-1482 1330

TYPE — CONTINUOUS STEEL GIRDER WITH REINFORCED CONC. DECK & SUBSTRUCTURE
SPANS — 57'-95'-95'-57'
ROADWAY — 24' F/F SAFETY CURBS
LOAD FREQUENCY — C.F. 30
SKEW — 30°41'35"
WEARING SURFACE — ½" MONOLITHIC
APPROACH SLABS — 25' LONG
ALIGNMENT — STRAIGHT
SUPERELEVATION — NONE

PLATE 4—CROSS SECTION O.P.R. & R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK

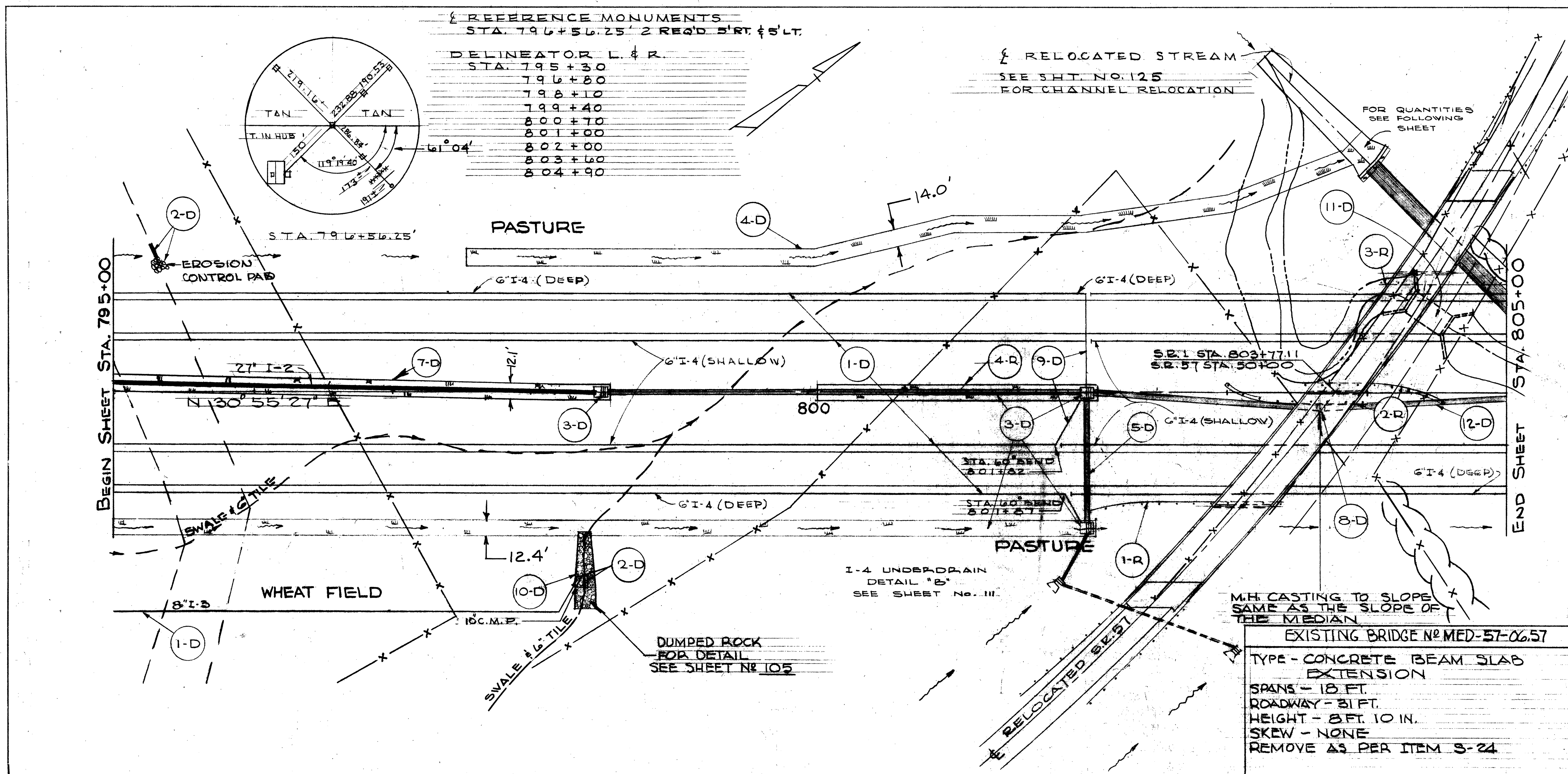
FROM STA. 785+00 TO STA. 795+00

REVISED 31 MAR '58

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

MED-1-10.09

33/189



EXISTING BRIDGE Nº MED-57-06.57

TYPE - CONCRETE BEAM SLAB EXTENSION
SPANS - 18 FT.
ROADWAY - 31 FT.
HEIGHT - 8 FT. 10 IN.
SKEW - NONE
REMOVE AS PER ITEM S-24

DRAINAGE (CONT.)

REF. Nº	STATION FROM	STATION TO	SIDE ℄	I-10 DUMPED ROCK CU. YDS.	S-24 REMOVAL EXISTING STRUCT. LUMP SUM	I-2 CL. "A" STORM SEWER M-6.6(a) 33"
10-D	798+40	–	RT	75		
11-D	804+50	–	℄		1	
12-D	802+00	805+00	℄			294

DRAINAGE

REF. Nº	STATION FROM	STATION TO	SIDE ℄	I-2 CLASS "A" STORM SEWER - LIN. FT. UNDER PAV'T OR APPROACH M-6.5(b) M-6.8(b) 8" PIPE	M-6.8(b) M-6.5(b) 18" PIPE	CLASS "A" M6.4c 12" PIPE	M6.6a 27" PIPE	I-4 UNDER-DRAIN-LIN. FT. 6" PIPE SHLW	6" PIPE DEEP	8" PIPE OUTLET M-6.4(b)	I-5 PIPE SPECIALS EACH BEND 6" 60°	TEE 6"x8"x8"	INC'R 6"-8"	I-8 CATCH BASIN EACH #4 MEDIAN INLET	#5 SIDE DITCH INLET	#1 MAN HOLE	L-10 SODDING MEDIAN & SIDE DITCH SOLID SQ.YDS	I-3 R'DWY DRAIN 10" OUTLET PIPE M-6.4(a) LIN. FT.	8" PIPE	S-29 EROSION CONTROL PAD 2" AGGR. 6" DEEP C.Y.	I-5 PIPE SPEC. EACH BEND 6" 90°
1-D	795+00	805+00	R&L					2023	2018	10	5								335		1
2-D	795+30	798+40	R&L															30		0.29	
3-D	795+00	802+00	℄&R				698							1	1		970				
4-D	797+55	804+00	LT.		92												1006				
5-D	802+00	–	RT.&LT.		~~94~~	40								1							
7-D	795+00	798+50	℄														470				
8-D	803+65	–	℄													1					
9-D	802+00	–	R&L	56						20		1	1								

ROADWAY

REF. Nº	STATION FROM	STATION TO	SIDE ℄	I-15 2-B GUARD RAIL LIN. FT. STEEL BEAM	BARRIER	L-10 SODDING MEDIAN STRIP SQ. YDS.
1-R	802+00	803+50	RT.	137.5		
2-R	803+02	804+60	℄	150	50	
3-R	804+08	805+00	LT.	100		
4-R	800+00	802+00	~~RT~~ ℄			~~51~~ 54
5-R						

BRIDGE Nº MED-1-1354

TYPE — CONTINUOUS STEEL BEAM WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE
SPANS — 63'-105'-105'-73.5' C/C BRGS.
ROADWAY — 30' F/F 2' SAFETY CURBS
LOAD FREQUENCY — C.F. 400
SKEW — 37°17'22" RT. FWD. FROM SUB TAN.
WEARING SURFACE - 1" MONOLITHIC
APPROACH SLABS — 25' LONG
ALIGNMENT — 03°00'00" CURVE RT
SUPERELEVATION — 0.071 FT/FT.

REVISED 3-31-58

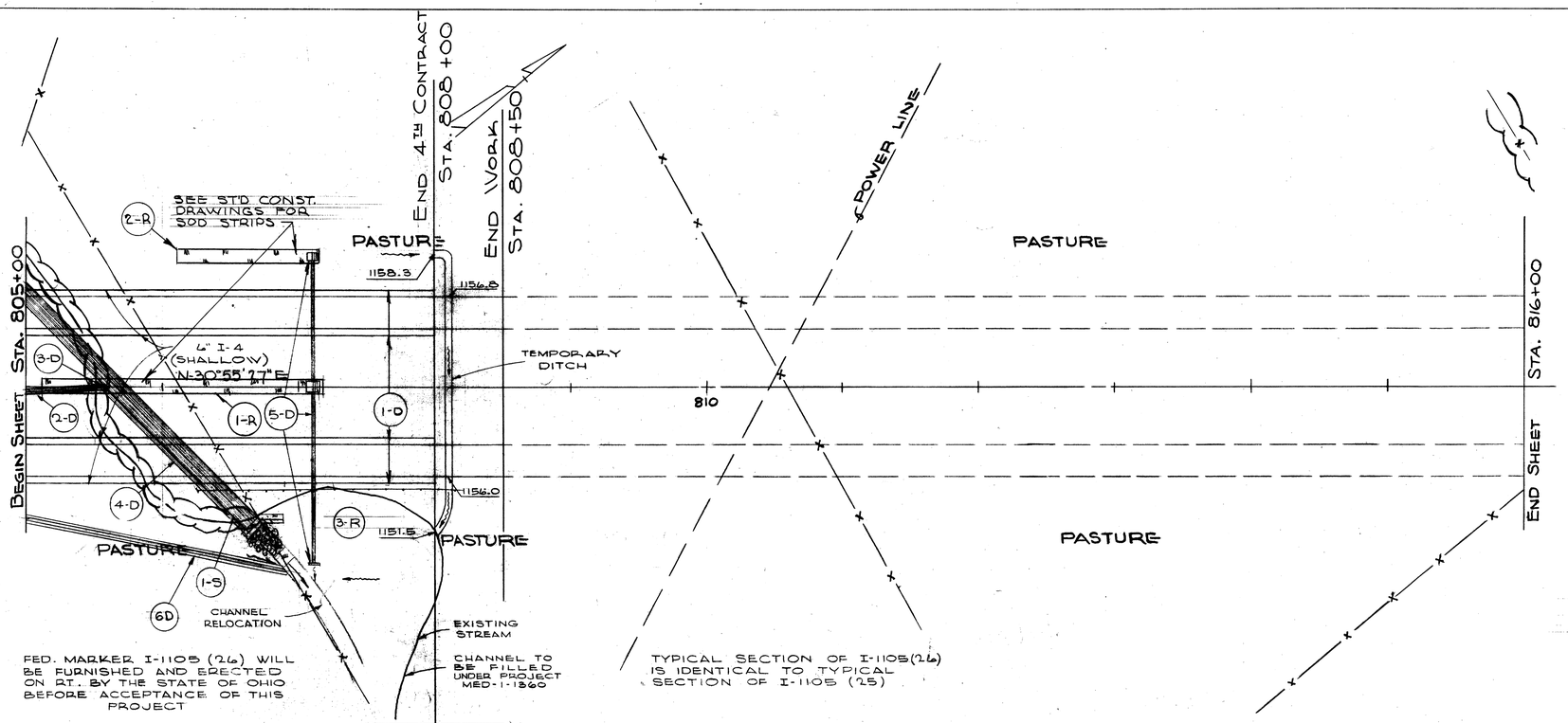
FROM STA. 795+00 TO STA. 805+00

PLATE 4—CROSS SECTION O.P.R. & R.R. STANDARD
KEUFFEL & ESSER CO. NEW YORK

ORIGINAL SURVEY	FINAL SURVEY
NOTE BOOK No.	NOTE BOOK No.
SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED — BY — DATE	SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED — BY — DATE

FED. RD.	STATE	PROJECT
2	OHIO	I-1105 (25)

MED-1-10.09



FED. MARKER I-1105 (26) WILL BE FURNISHED AND ERECTED ON RT. BY THE STATE OF OHIO BEFORE ACCEPTANCE OF THIS PROJECT

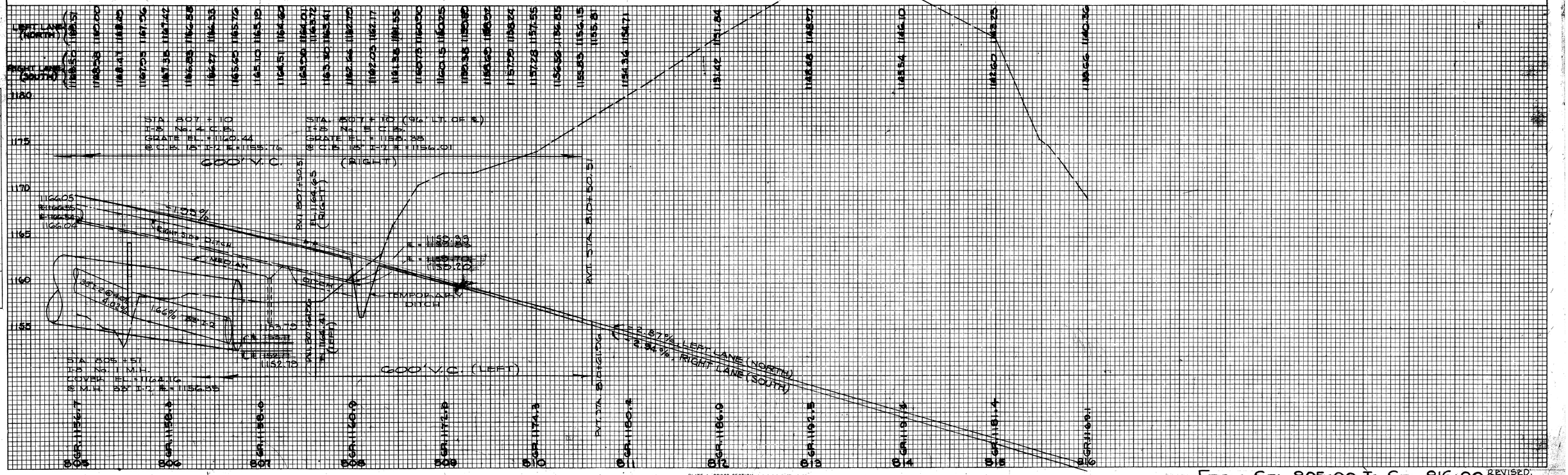
TYPICAL SECTION OF I-1105(26) IS IDENTICAL TO TYPICAL SECTION OF I-1105 (25)

DRAINAGE														
REF. Nº	STATION FROM	STATION TO	SIDE ℄	I-2 CLASS "A" STORM SEWER LIN. FT. UNDER PAVEMENT OR APPROACH M6.5b M6.8b 18" PIPE	I-2 CLASS "A" STORM SEWER LIN. FT. UNDER PAVEMENT OR APPROACH M6.6a 33" PIPE	I-2 CLASS "A" STORM SEWER LIN. FT. CLASS "A" M-6.6a 33" PIPE	I-4 PIPE UNDERDRAIN LIN. FT. 18" SHALLOW 6" PIPE	I-8 CATCH BASIN EACH #1 MAN HOLE	I-8 CATCH BASIN EACH #4 MEDIAN DITCH INLET	I-8 CATCH BASIN EACH #5 SIDE DITCH INLET	HEADWALL "A" S-1 CONC. FOR STRUCT CU. YDS.	HEADWALL "A" S-4 REIN. STEEL LBS.	I-10 DUMP ROCK	I-14 PAVED SIDE DITCH TYPE 1 L.F
1-D	805+00	808+00	R&L				1200							
2-D	805+00	805+57	℄			55								
3-D	805+57	-	℄					1						
4-D	805+57	-	RT.		154 ~~144~~									
5-D	807+10	-	R&L	229					1	1	3.1 ~~3.2~~	144	15	
6-D	805+00	807+00												200

STRUCTURES					
REF. Nº	STATION	SIDE ℄	S-28 RDWY CULV. M-6.4(g)8-7GA 7'-11"x12'-6"	FOR QUANTITIES SEE SHEET Nº	STRUCTURE Nº
1-S	805+72	R&L		125	MED-1-13.59
2-S					
3-S					

ROADWAY					
REF Nº	STATION FROM	STATION TO	SIDE ℄	I-10 SODDING MED. & SIDE STRIP SQ.YD.	I-15 2B GUARD RAIL BEAM L.F
1-R	805+10	807+10	℄	54	
2-R	806+10	807+10	LT.	26	
3-R	806+25	808+25	RT		200

DELINEATOR L.&R.
STA. 806+20
807+50



FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

FROM STA. 805+00 TO STA. 816+00 REVISED 31 MAR.'58

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

MED. -1-10.09

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
320	240		
		2004	454
762	5		
		3485	24
1120	8		
		3843	15
955	0		

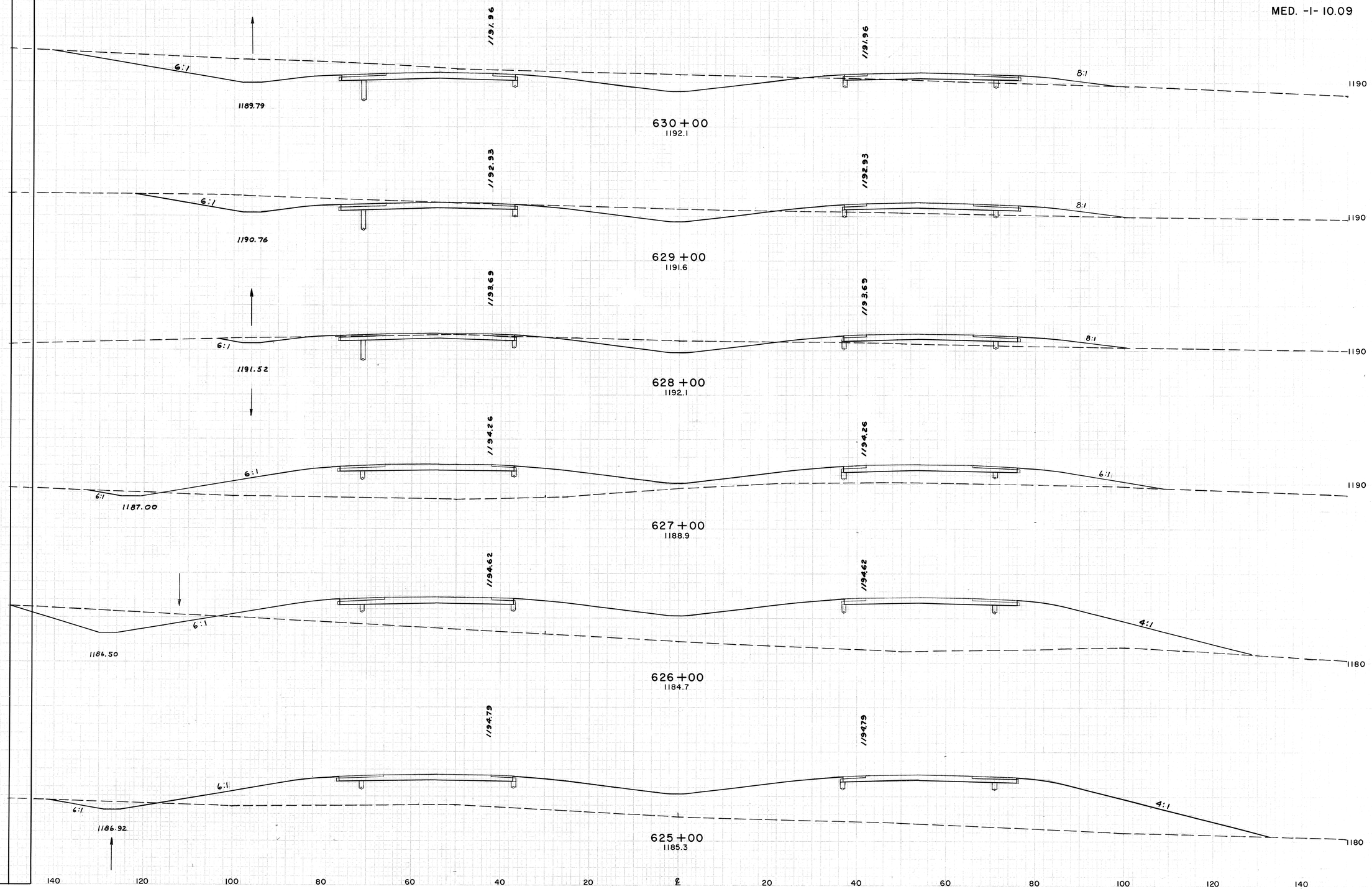
STA. 621+00 TO STA. 624+00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

36
189

MED. -I- 10.09

SEEDING	
END WIDTH	SQ. YDS.



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
447	45		
		1278	243
243	86		
		709	307
140	80		
		278	1672
10	823		
		269	4282
135	1489		
		294	5784
24	1634		
		637	3471

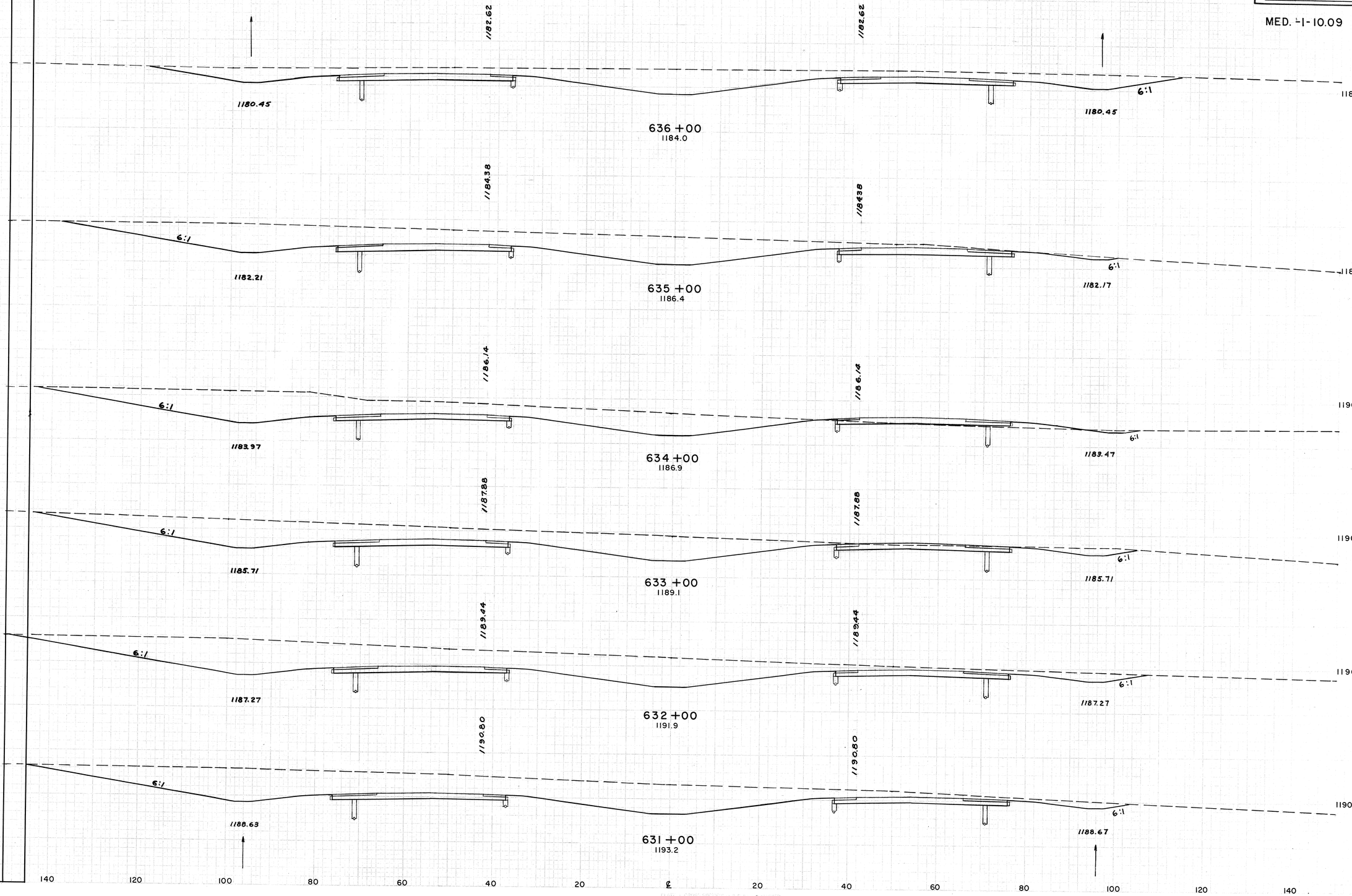
STA. 625+00 TO STA. 630+00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

37
189

MED. -I-10.09

SEEDING	
END WIDTH	SQ. YDS.



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
649	0		
		2767	0
845	0		
		2821	41
678	22		
		2637	41
746	0		
		3246	0
1007	0		
		3735	0
1010	0		
		2698	83

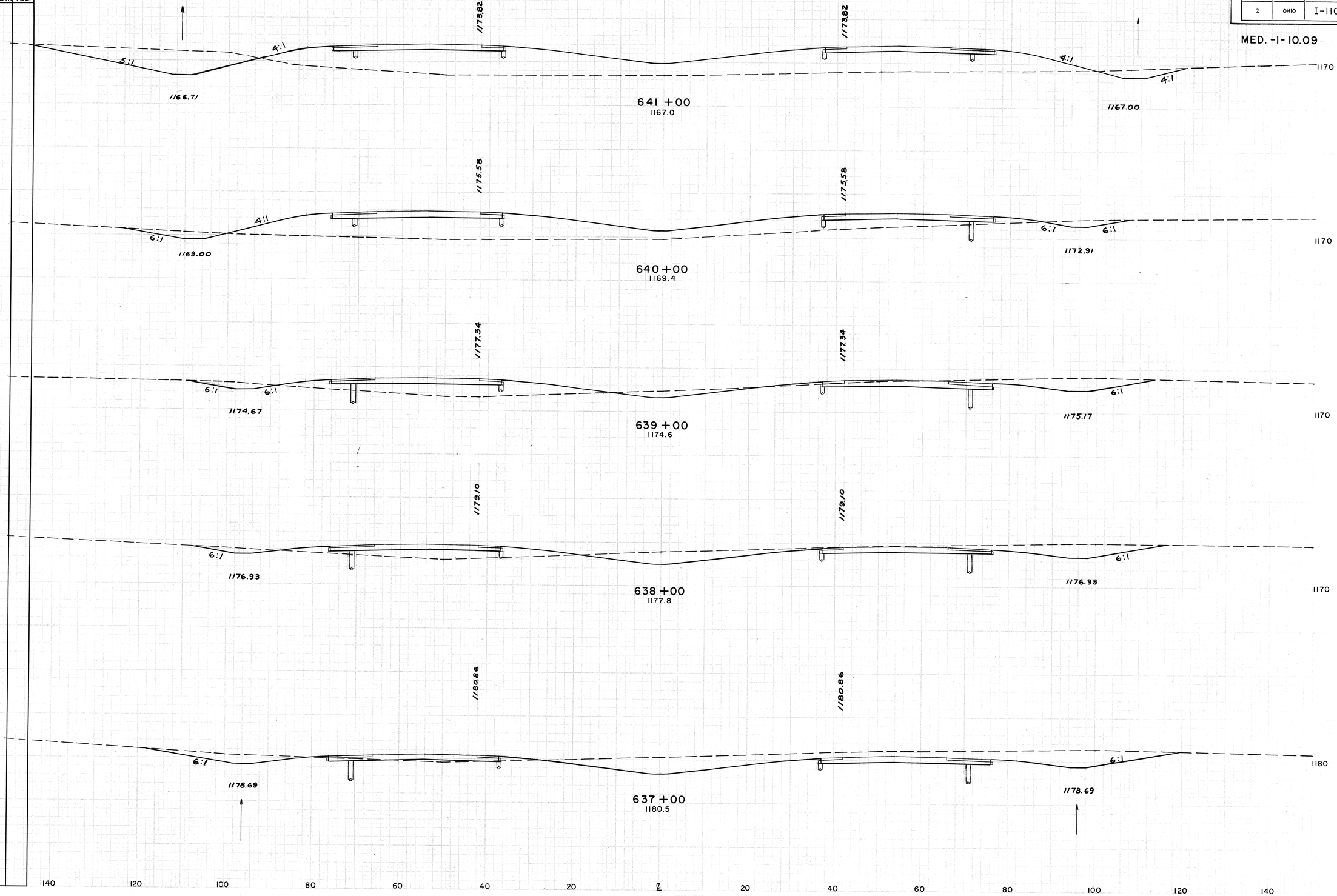
STA. 631+00 TO STA. 636+00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

38
189

MED. -I- 10.09

SEEDING	
END WIDTH	SQ. YDS.



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
196	827		
		433	2572
38	562		
		402	1322
179	152		
		754	467
228	100		
		1067	211
348	14		
		1846	26

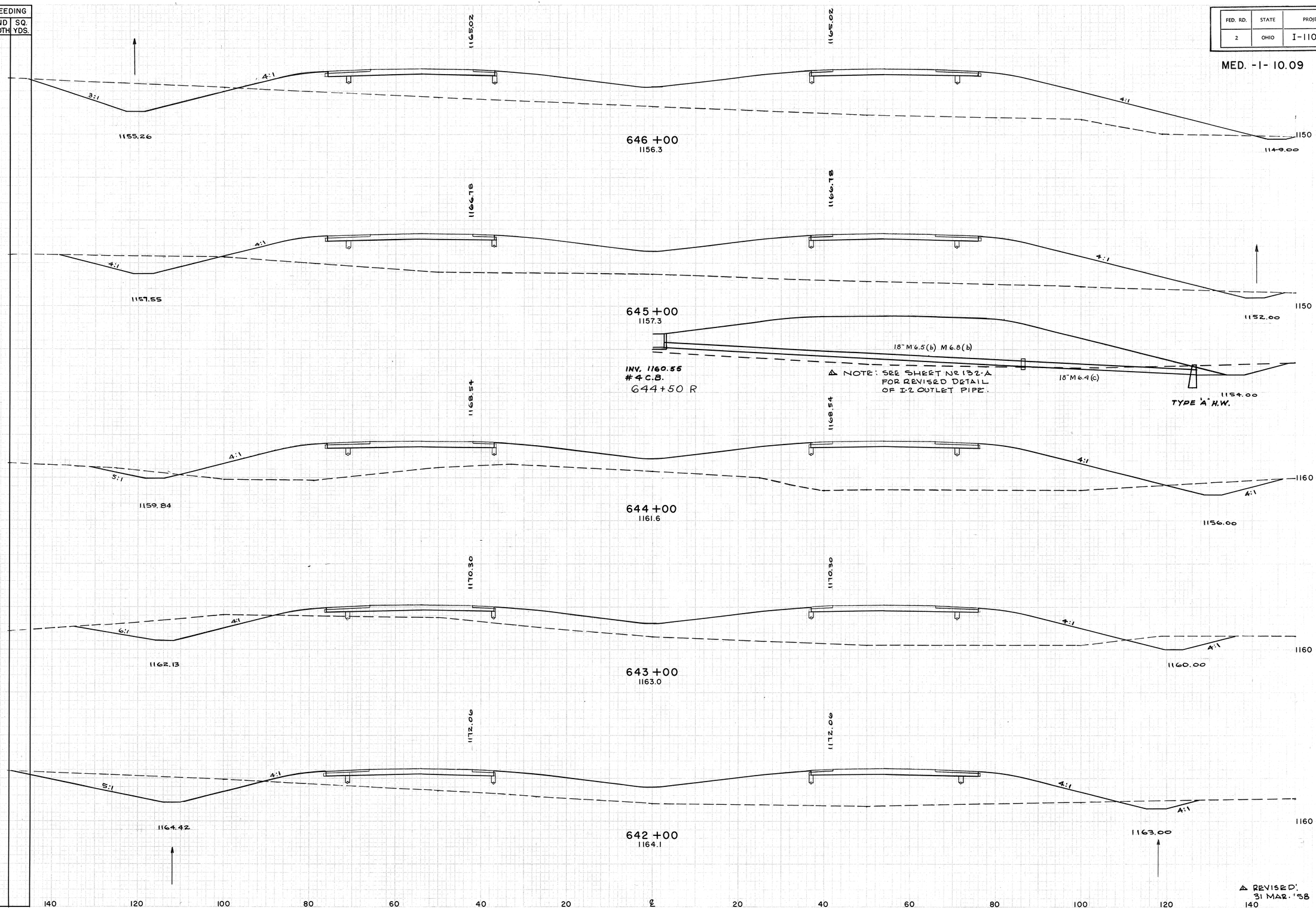
STA. 637+00 TO STA. 641+00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

39
189

MED. -1- 10.09

SEEDING	
END WIDTH	SQ. YDS.



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
170	1455		
		502	5732
101	1640		
		296	5689
59	1432		
		430	4330
173	906		
		707	3443
209	953		
		750	3297

△ REVISED: 31 MAR. '58

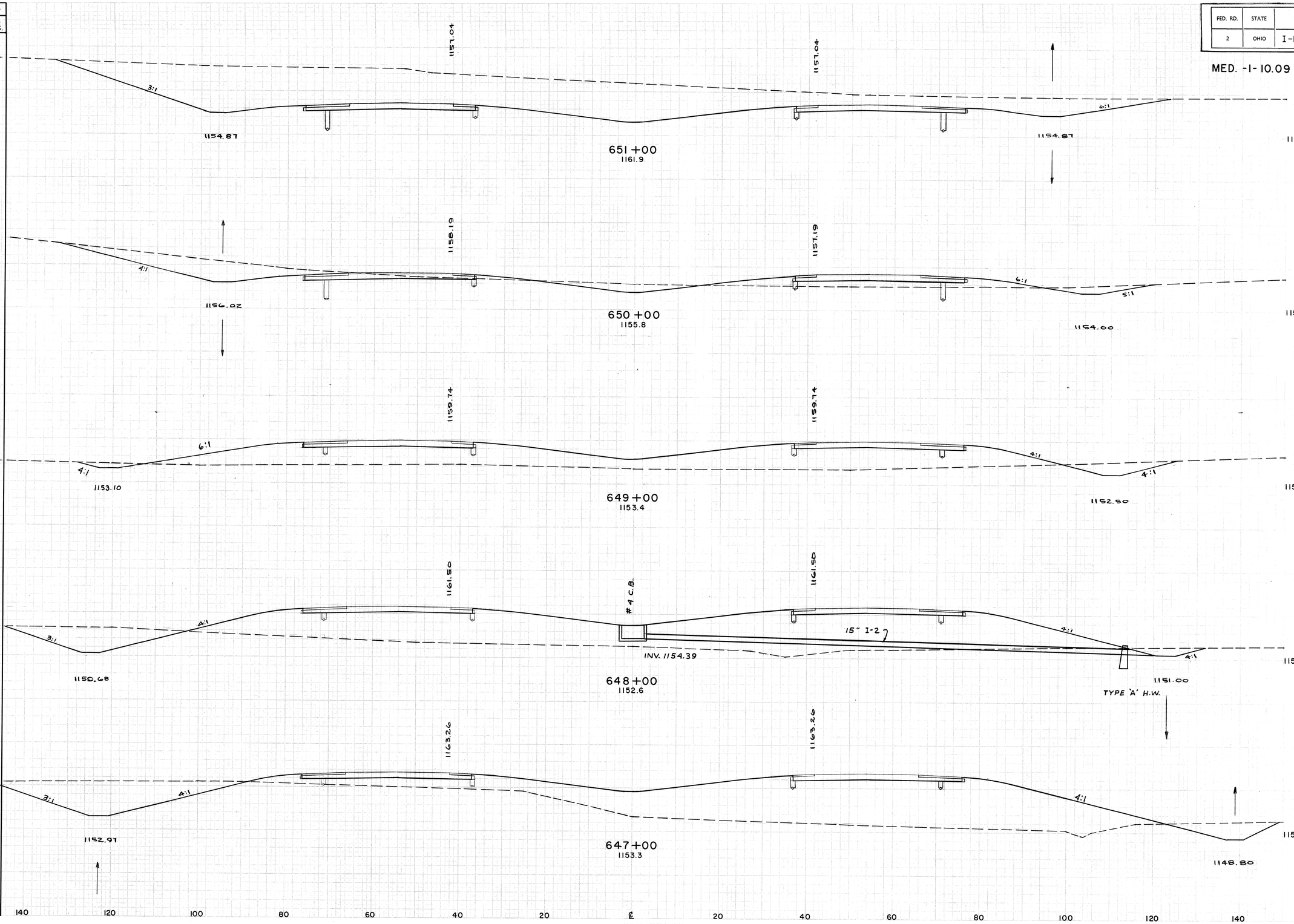
STA. 642+00 TO STA. 646+00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

40
189

MED. -I- 10.09

SEEDING	
END WIDTH	SQ. YDS.



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
1658	0		
		3585	237
278	128		
		615	1711
54	796		
		356	3982
138	1354		
		841	4852
316	1266		
		900	5039

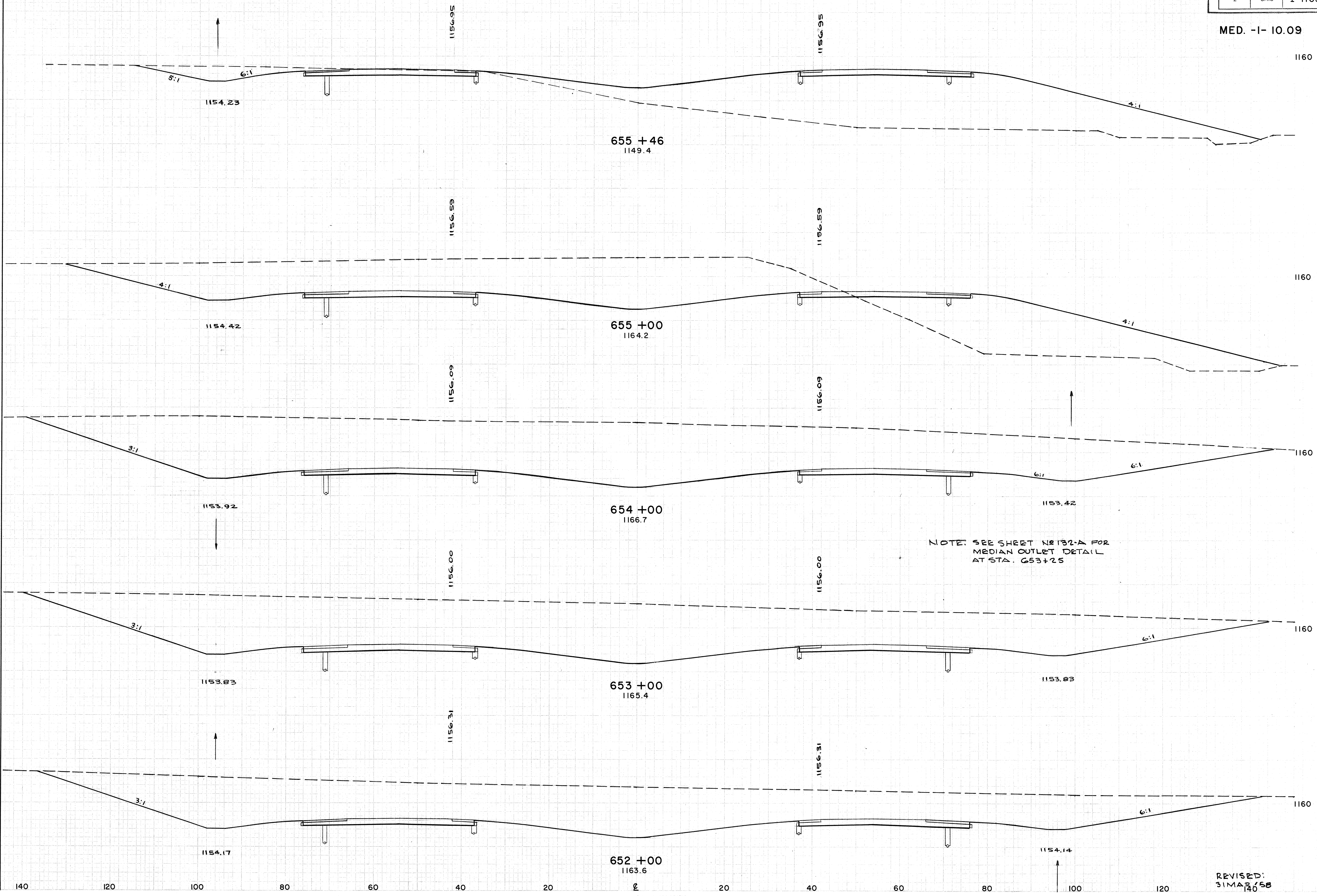
STA. 647+00 TO STA. 651+00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

41/189

MED. -1- 10.09

SEEDING	
END WIDTH	SQ. YDS.



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
1360	672		
		7758	1245
2829	0		
		10101	0
2625	0		
		8878	0
2169	0		
		7088	0

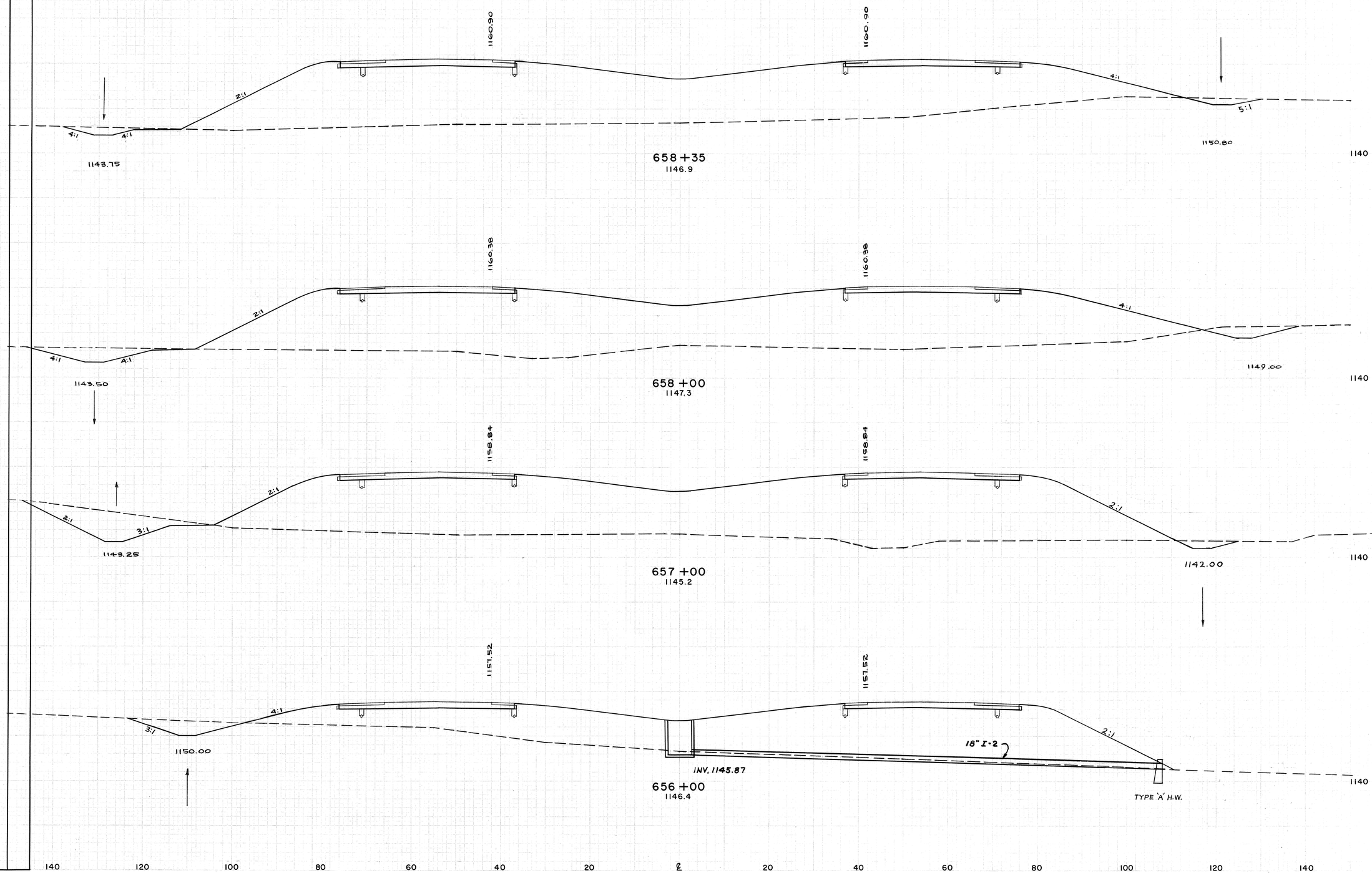
STA. 652+00 TO STA. 655+46

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

42
189

MED. -I- 10.09

SEEDING	
END WIDTH	SQ. YDS.



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
90	2445		
		463	9388
160	2624		
		374	8114
42	1757		
		2597	4499

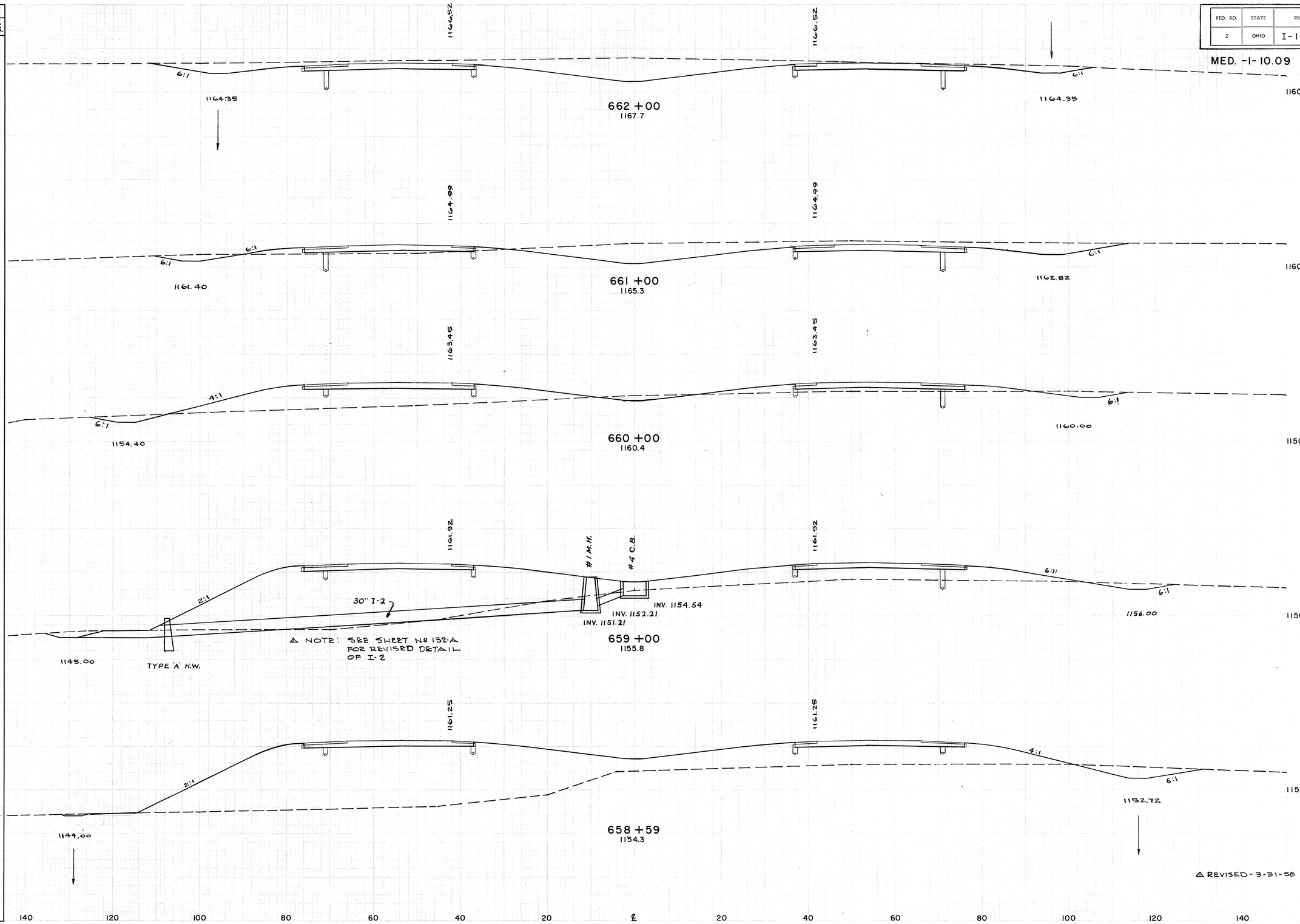
STA. 656+00 TO STA. 658+35

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

43
189

MED. -I-10.09

SEEDING	
END WIDTH	SQ. YDS.



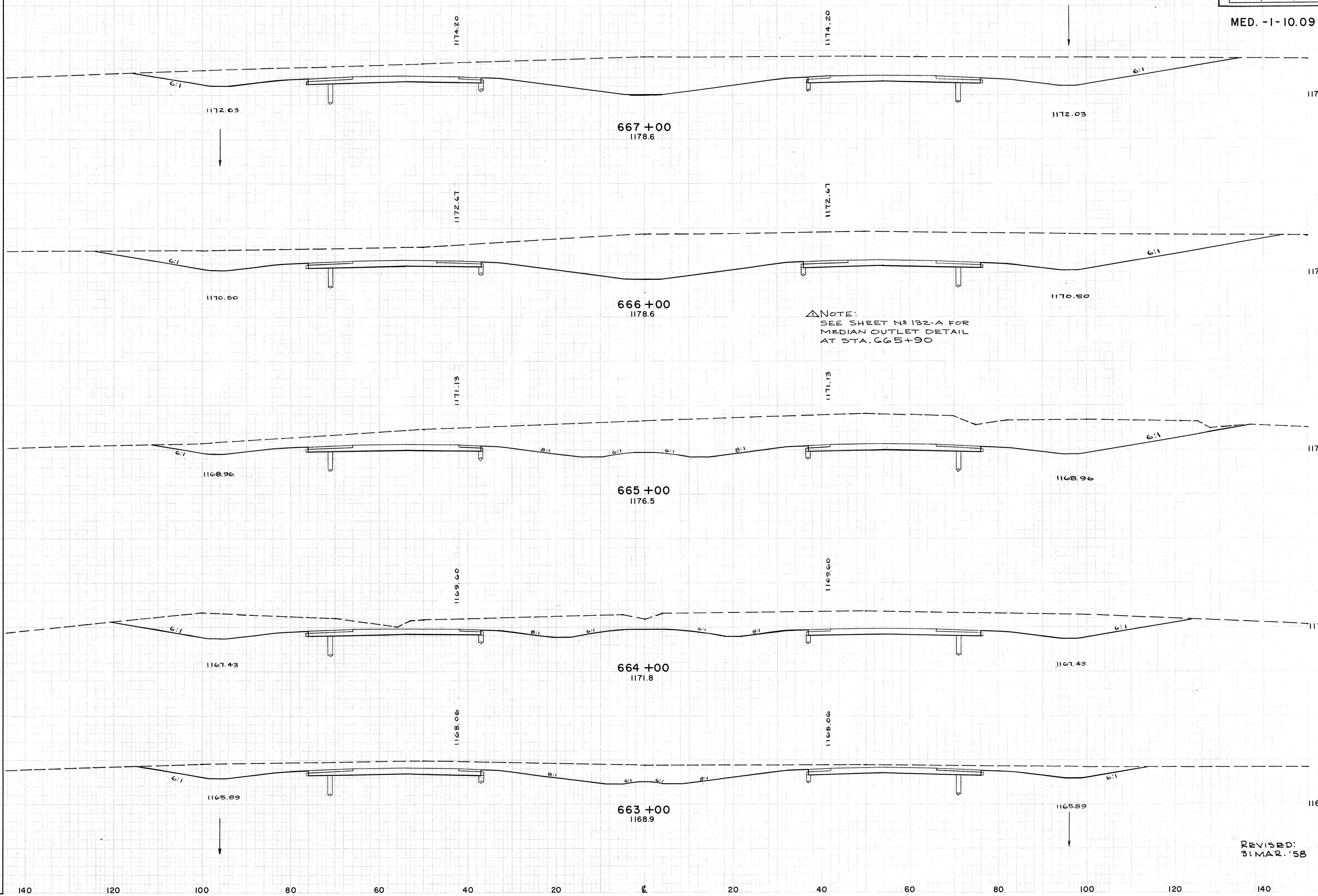
END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
457	0		
		1470	59
337	32		
		722	809
53	405		
		154	3085
30	1261		
		222	6864

STA. 658+59 TO STA. 662 +00

FED. RD.	STATE	PROJECT		44/189
2	OHIO	I-1105 (25)		

MED. -1-10.09

SEEDING	
END WIDTH	SQ. YDS.



△NOTE:
SEE SHEET Nº 132-A FOR
MEDIAN OUTLET DETAIL
AT STA. 665+90

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
1158	0		
		4987	0
1535	0		
		5402	0
1382	0		
		4378	0
982	0		
		2837	0
550	0		
		1865	0

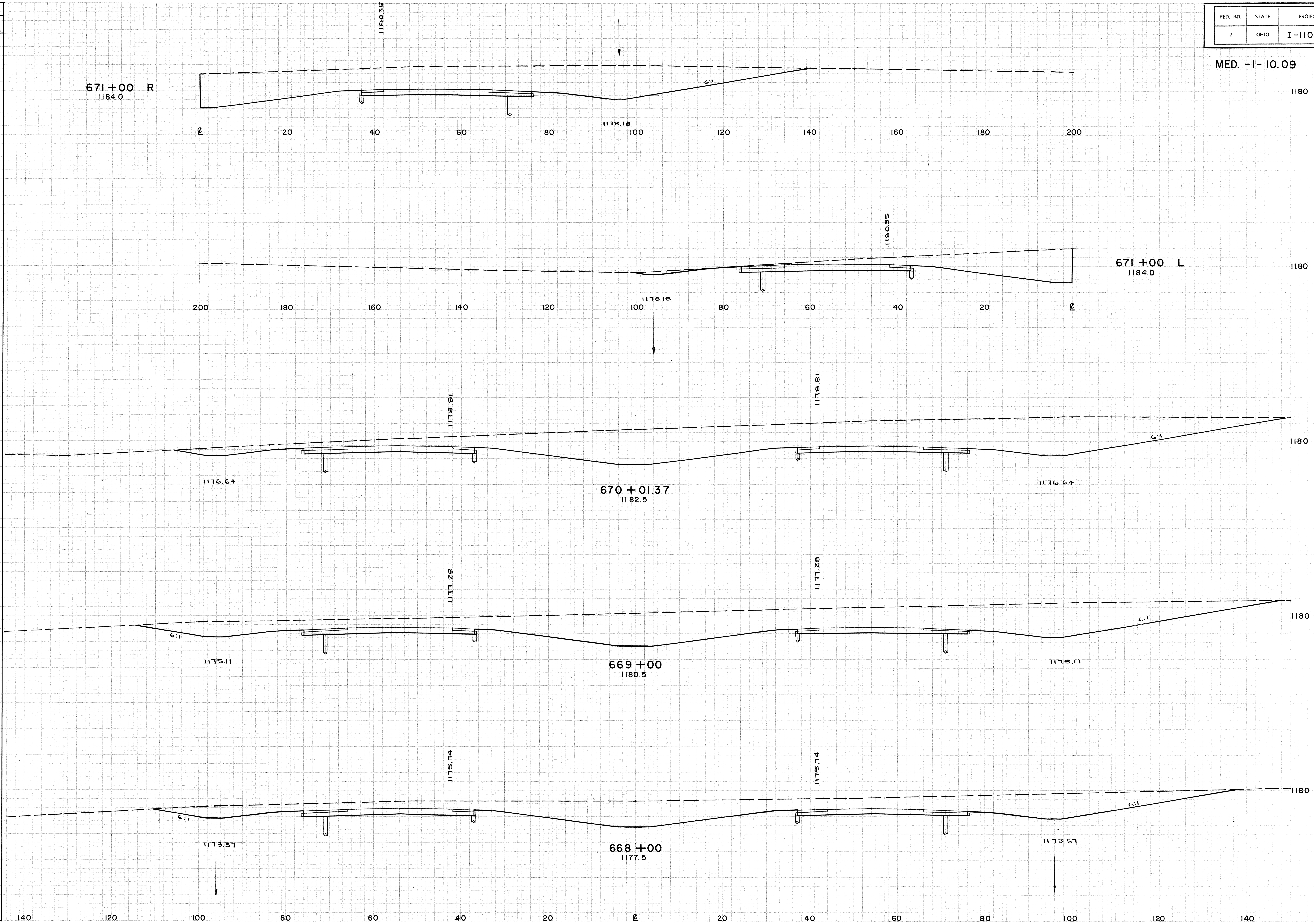
REVISED:
31 MAR. '58

STA. 663+00 TO STA. 667+00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

MED. -1- 10.09

SEEDING	
END WIDTH	SQ. YDS.



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
1096	0		
		4352	0
1254	0		
		4528	0
1201	0		
		3911	0
911	0		
		3851	0

STA. 668+00 TO STA. 671+00

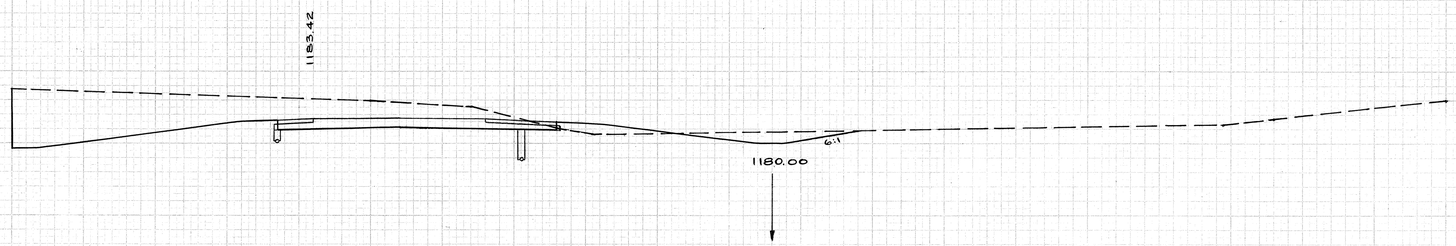
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

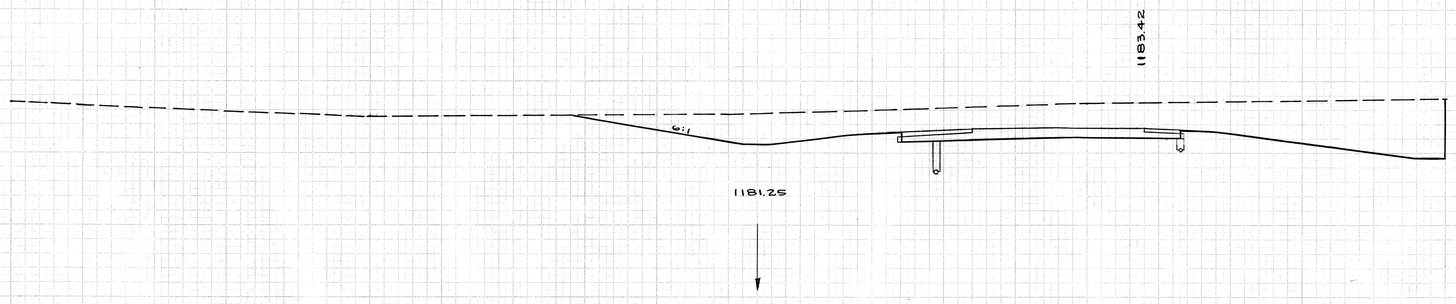
46
189

MED. -I- 10.09

SEEDING	
END WIDTH	SQ. YDS.

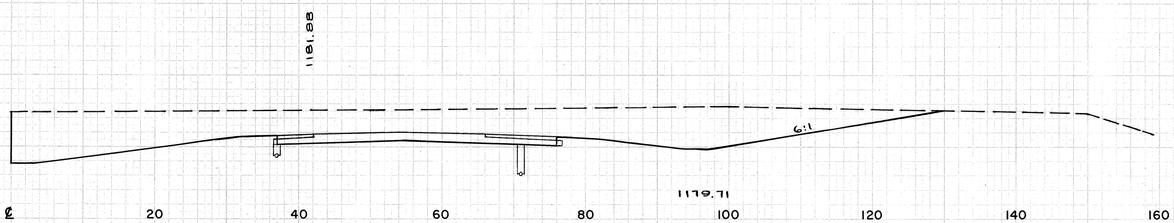
673+00 R
1187.5

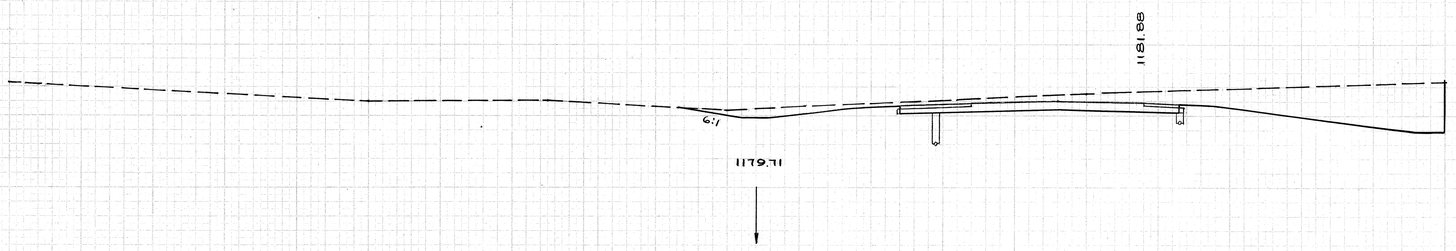




673+00 L
1187.5

672+00 R
1184.7





672+00 L
1184.7

	END AREA		CU. YDS.	
	CUT	FILL	CUT	FILL
1180				
	350	19		
			2200	35
1180				
	838	0		
1180			3581	0

200 180 160 140 120 100 80 60 40 20 ℄ ℄ 20 40 60 80 100 120 140 160 180 200

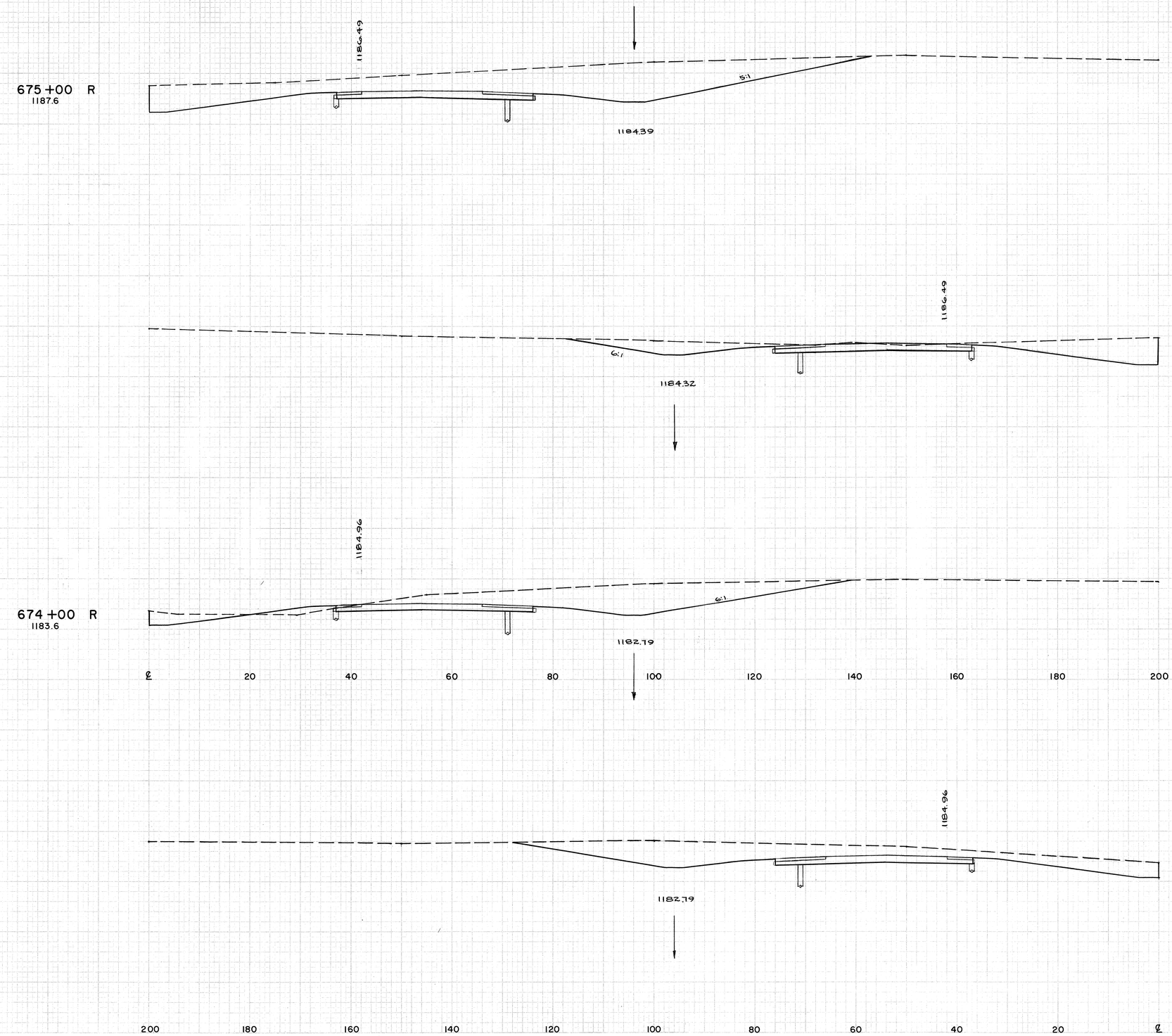
STA. 672+00 TO STA. 673+00

SEEDING	
END WIDTH	SQ. YDS.

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (2.5)	

47
189

MED. -I- 10.09



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
1180			
860	0		
		2963	26
740	14		
		2019	61
1180			

STA. 674+00 TO STA. 675+00

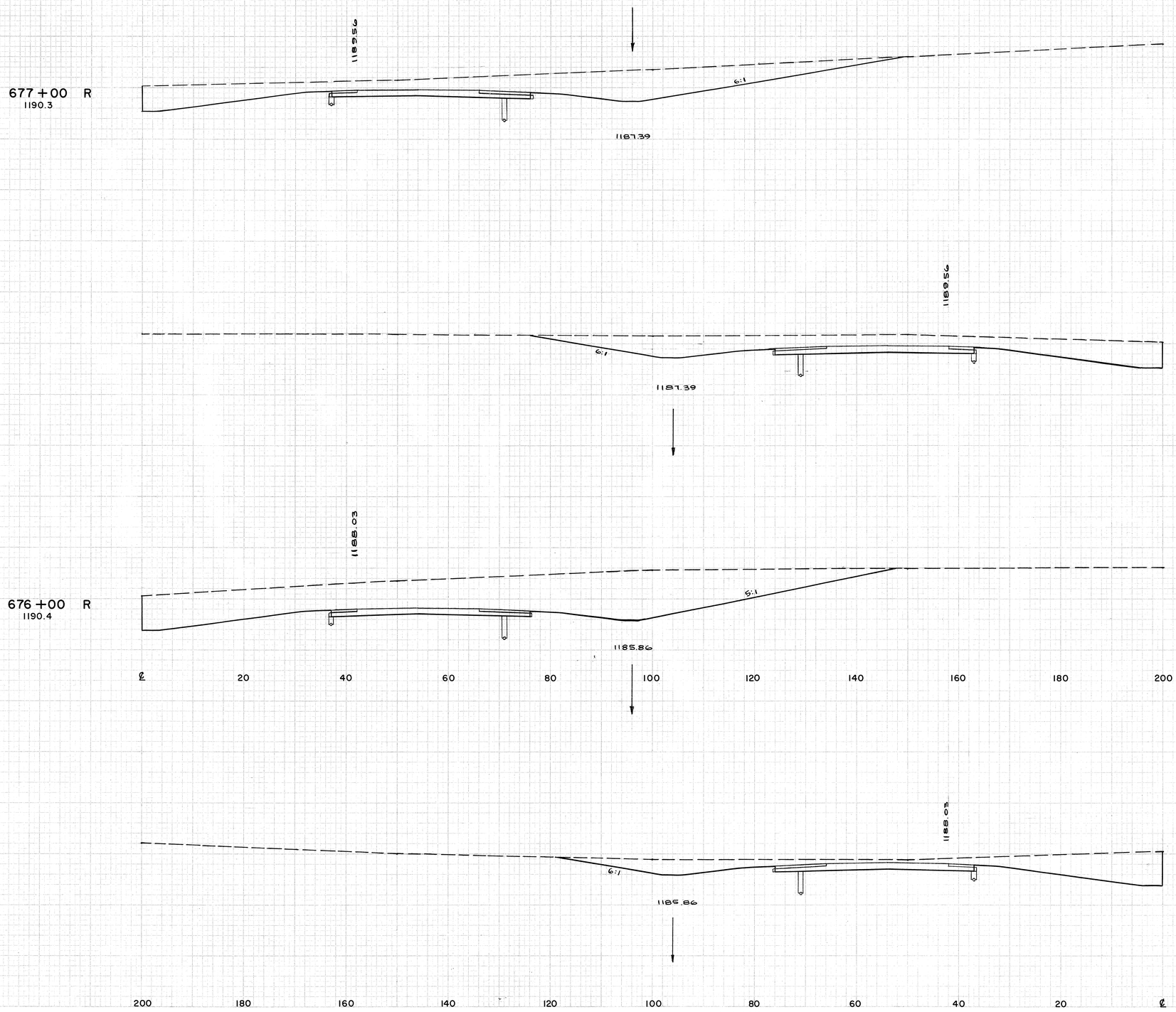
PLATE 3 CROSS SECTION O.D.O.T. STANDARD
REVISED & ENTERED ON RECORDS

SEEDING	
END WIDTH	SQ. YDS.

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

48
189

MED. -I-10.09



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
896	0		
		3926	0
1224	0		
		3860	0

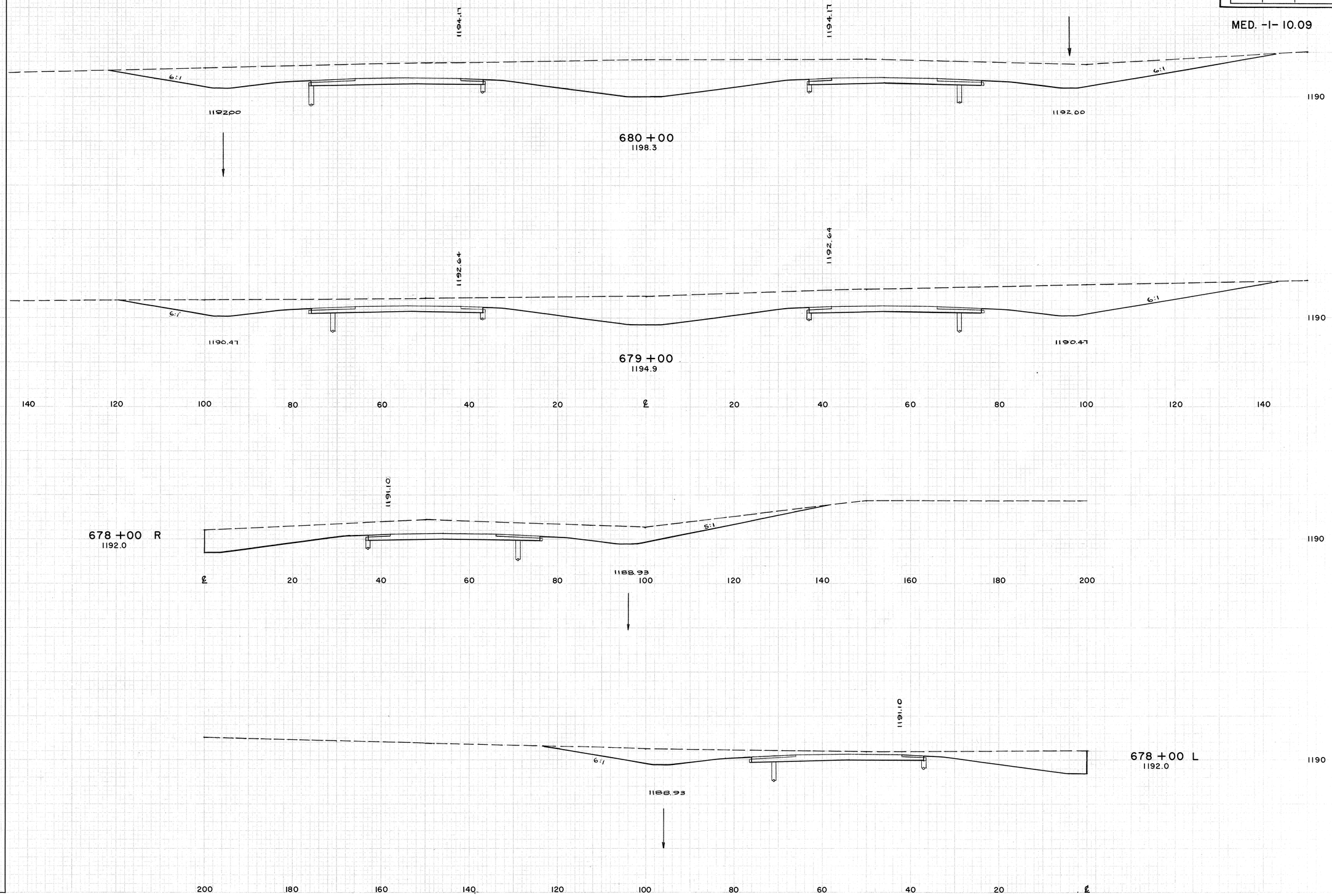
STA. 676+00 TO STA. 677+00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

42
189

MED. -I- 10.09

SEEDING	
END WIDTH	SQ. YDS.

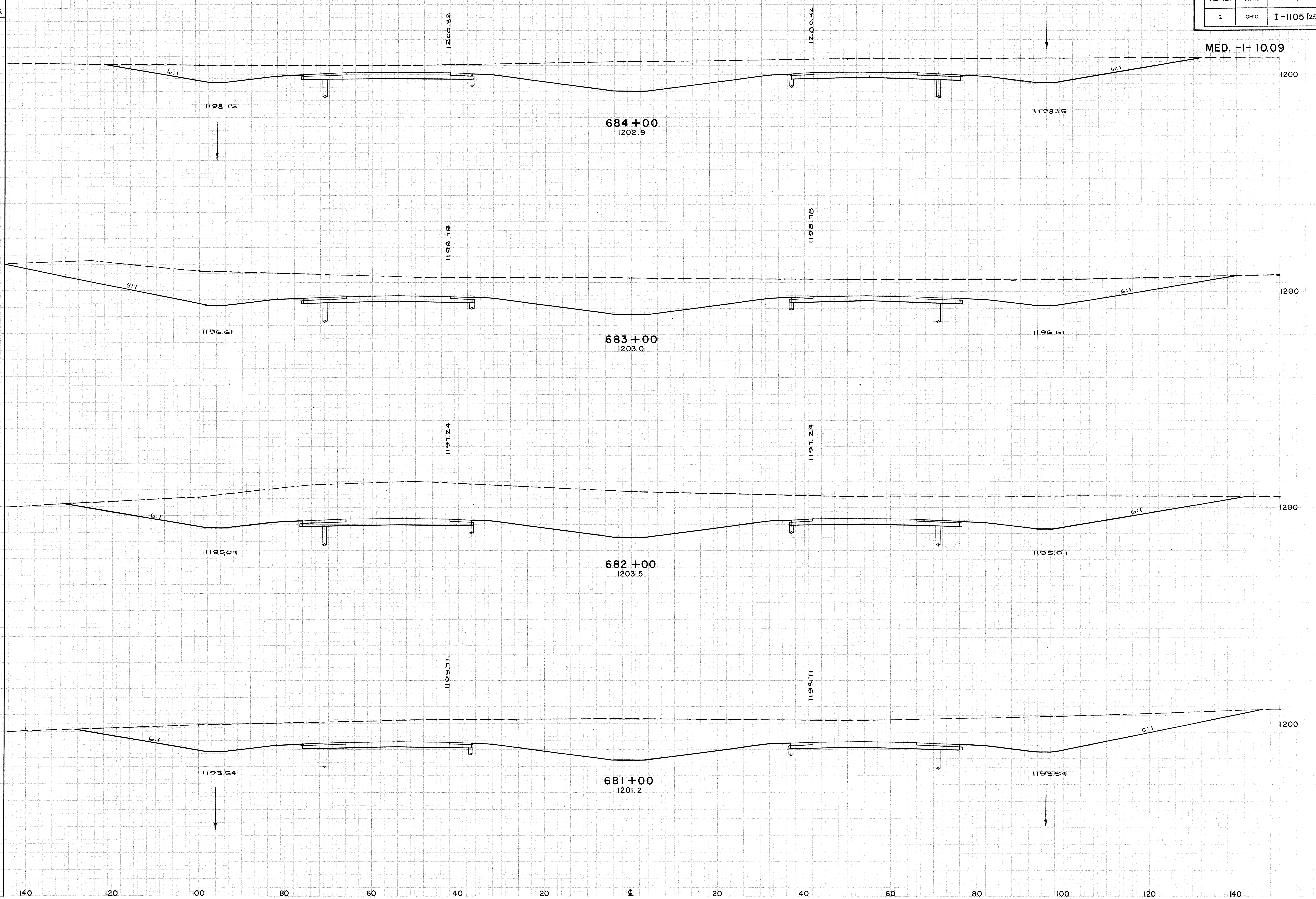


END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
1266	0		
		4298	0
1055	0		
		3317	0
736	0		
		3022	0

STA. 678 + 00 TO STA. 680 + 00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

SEEDING	
END WIDTH	SQ. YDS.

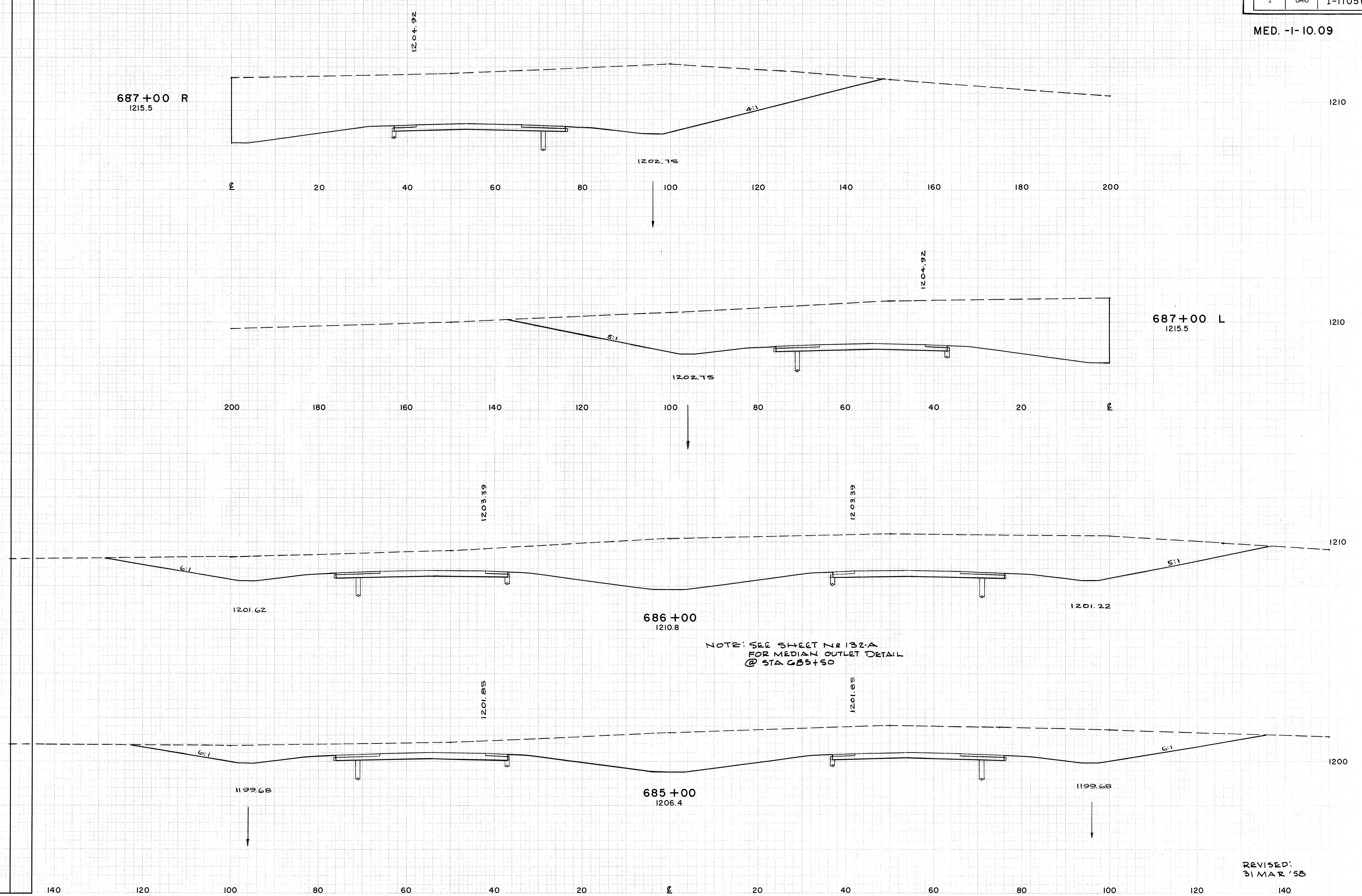


END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
993	0		
		4654	0
1520	0		
		6317	0
1891	0		
		6441	0
1587	0		
		5284	0

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

MED. -1- 10.09

SEEDING	
END WIDTH	SQ. YDS.



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
3024	0		
		9106	0
1893	0		
		6013	0
1354	0		
		4347	0

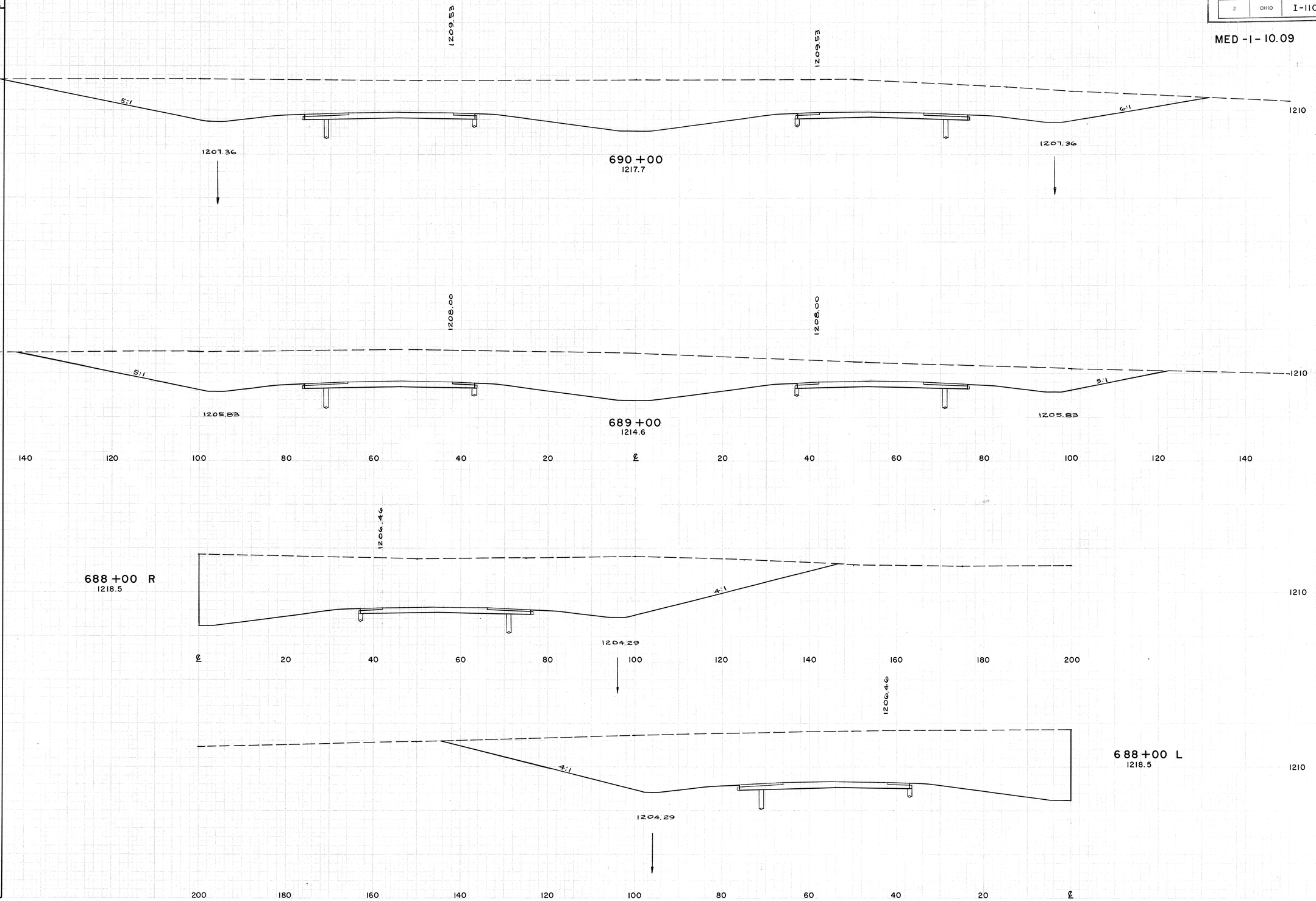
STA. 685+00 TO STA. 687+00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

52
189

MED-I-10.09

SEEDING	
END WIDTH	SQ. YDS.

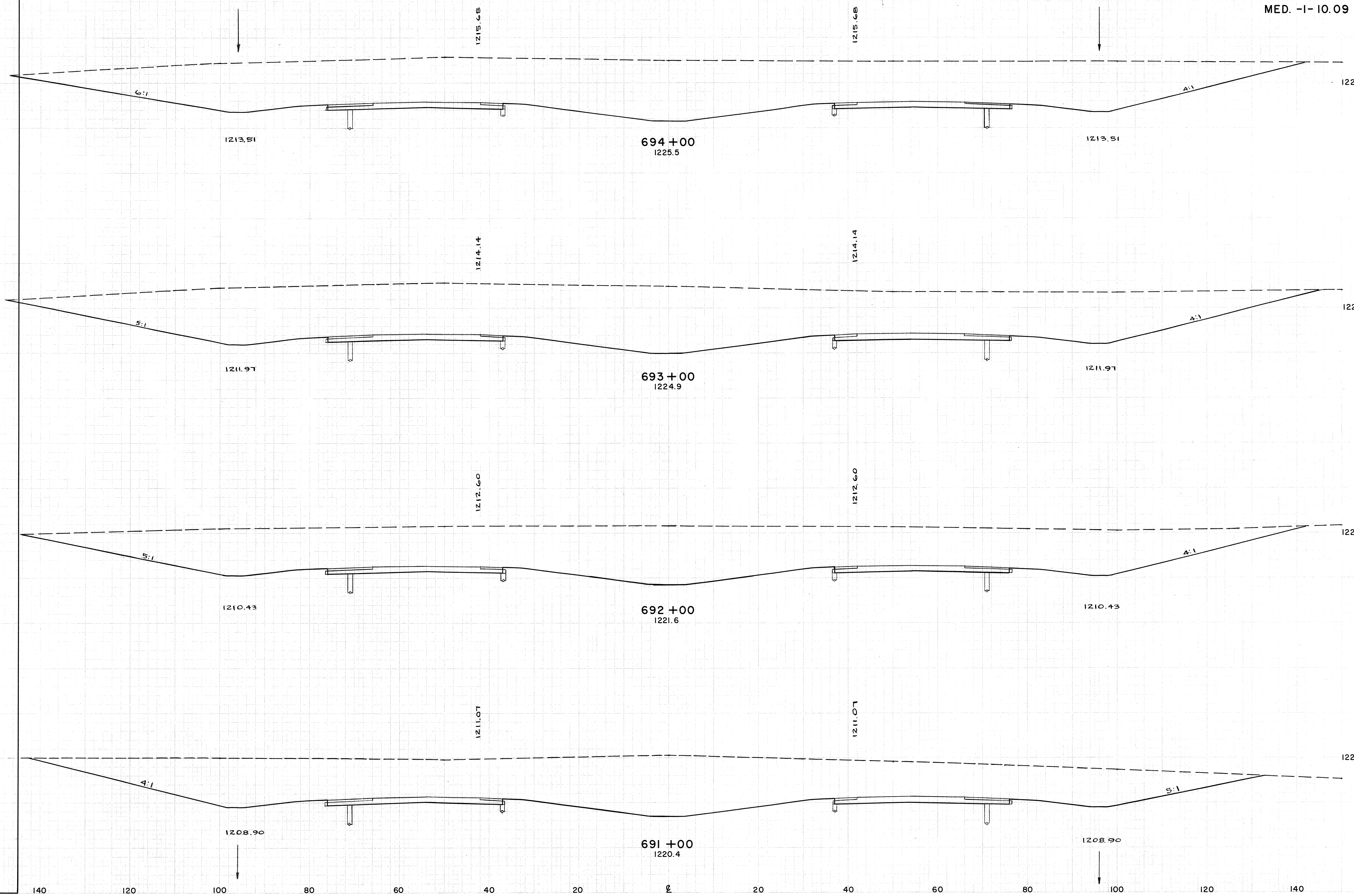


END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
2056	0		
		7025	0
1737	0		
		9179	0
		3219	0
		11562	0

STA. 688+00 TO STA. 690+00

MED. -1- 10.09

SEEDING	
END WIDTH	SQ. YDS.



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
2703	0		
		10429	0
2928	0		
		10045	0
2496	0		
		8962	0
2343	0		
		8147	0

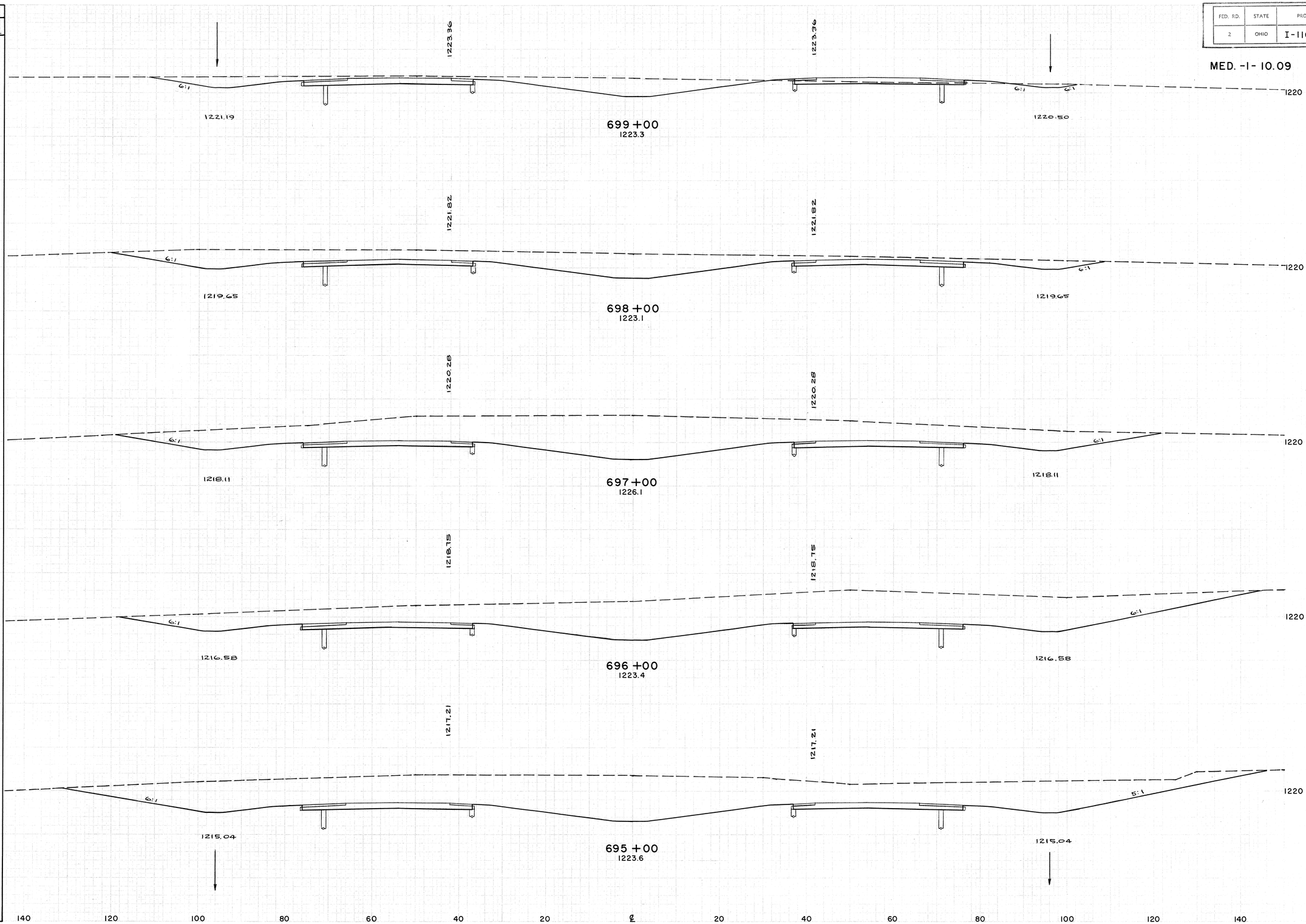
STA. 691+00 TO STA. 694+00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

54
189

MED. -I- 10.09

SEEDING	
END WIDTH	SQ. YDS.



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
315	8		
		1796	15
655	0		
		3682	0
1333	0		
		5276	0
1516	0		
		5976	0
1711	0		
		8175	0

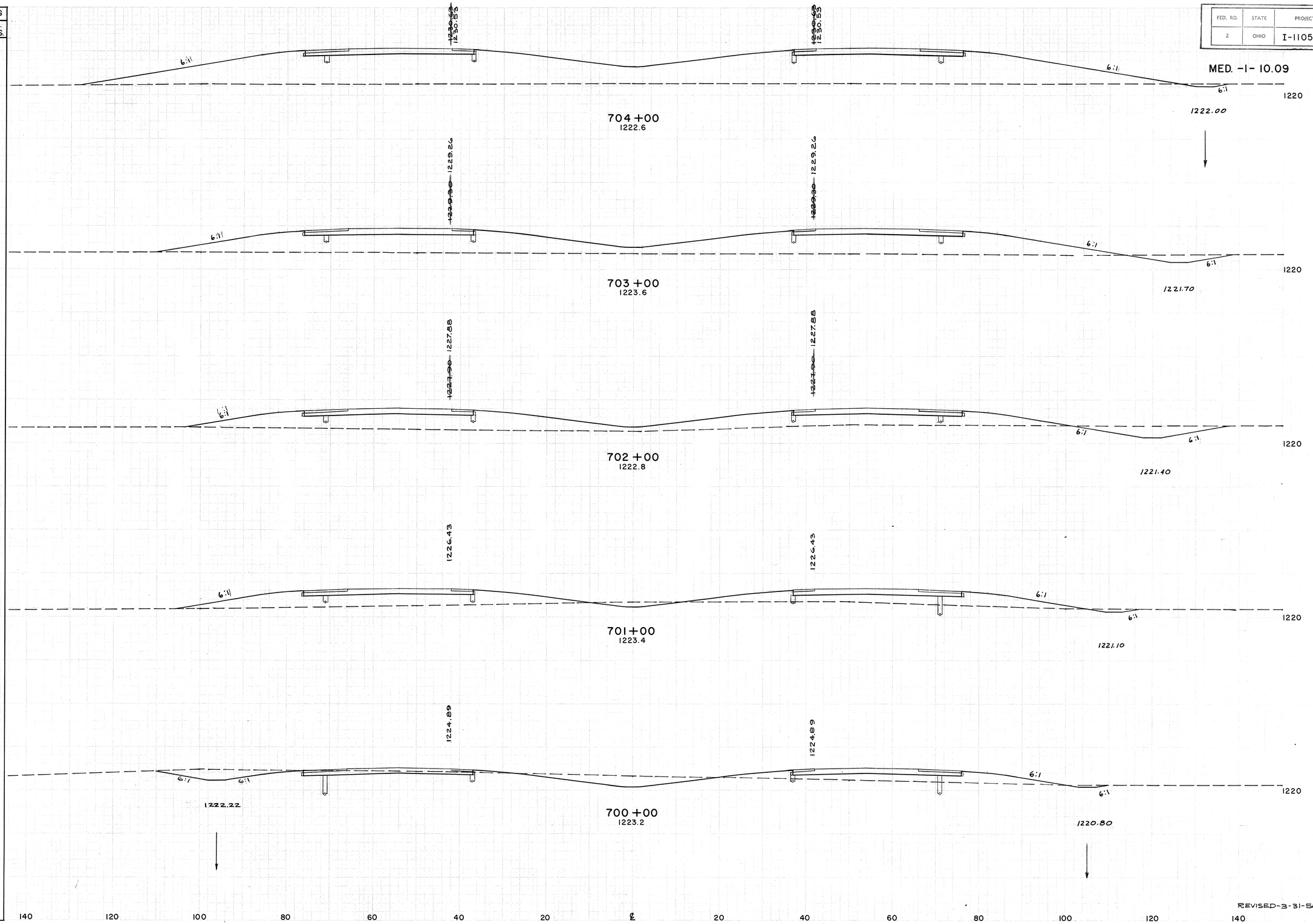
STA. 695+00 TO STA. 699+00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

55
189

MED. -I- 10.09

SEEDING	
END WIDTH	SQ. YDS.



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
7	1333		
		50	3965
20	808		
		111	2478
40	530		
		115	1695
22	385		
		304	926
142	115		
		846	228

REVISED-3-31-58

STA. 700 +00 TO STA. 704+00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

56
189

MED. -I- 10.09

SEEDING	
END WIDTH	SQ. YDS.

709+00
1223.2

1235.43
1236.11

1235.43
1236.11

2:1

2:1

1220.50

1218.50

1220

708+00
1224.8

1234.64
1235.16

1234.64
1235.16

2:1

2:1

1221.00

1220.50

1220

707+00
1225.5

1233.75
1234.14

1233.75
1234.14

3:1

4:1

5:1

1222.00

1223.00

1220

706+00
1225.2

1232.78
1233.05

1232.78
1233.05

4:1

6:1

1222.50

1220

705+50

15" I-2

#4 C.B.

INV. 1225.36

1223.00

TYPE 'A' H.W.

1231.70
1231.88

1231.70
1231.88

6:1

6:1

705+00
1223.5

1224.00

6:1

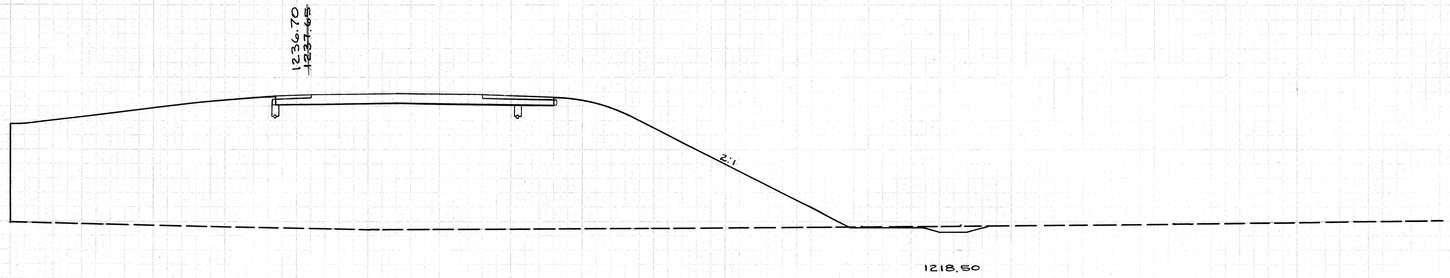
1220

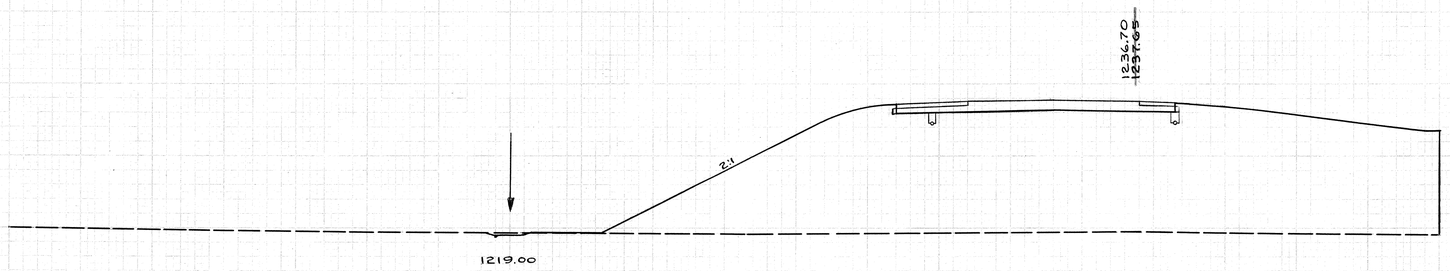
END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
48	2279		
		146	7425
31	1730		
		119	5882
33	1446		
		76	5049
8	1280		
		46	4871
17	1350		
		44	4969

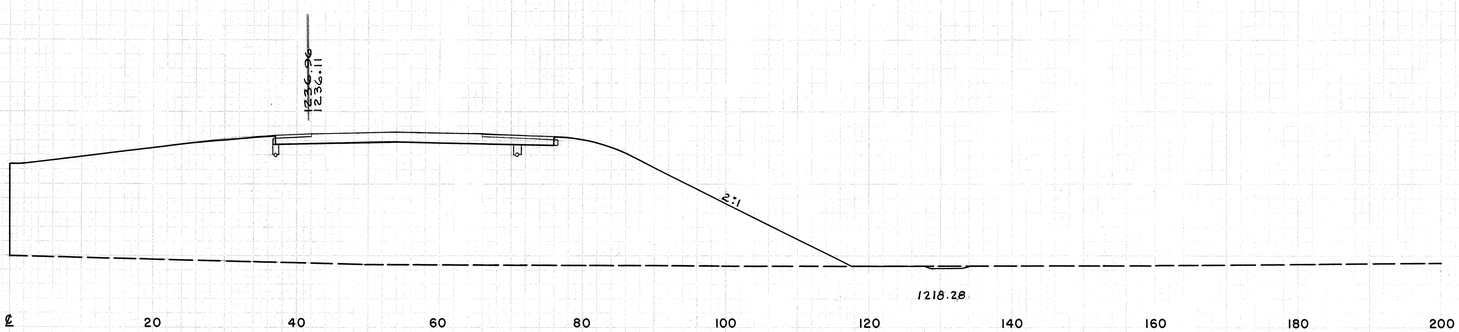
REVISED:
31MAR.'58

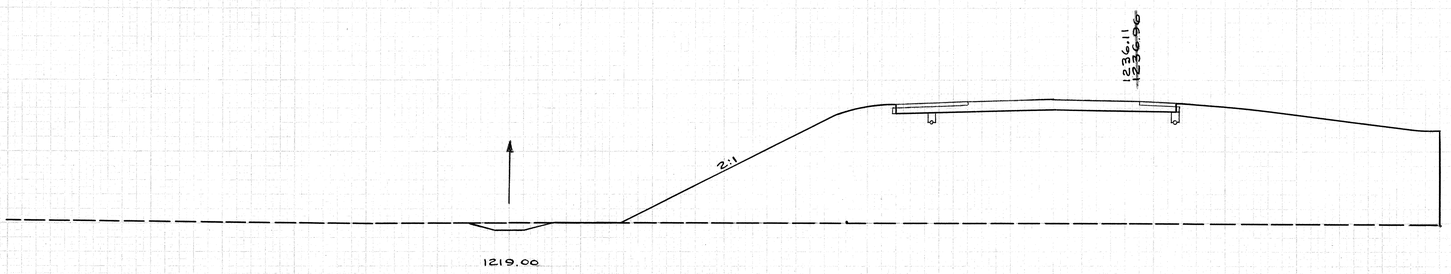
140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

STA. 705+00 TO STA. 709+00









FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

MED. -I- 10.09

SEEDING	
END WIDTH	SQ. YDS.

REVISED-3-31-58

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
10	3311		
		39	11947
11	3140		
		109	10036

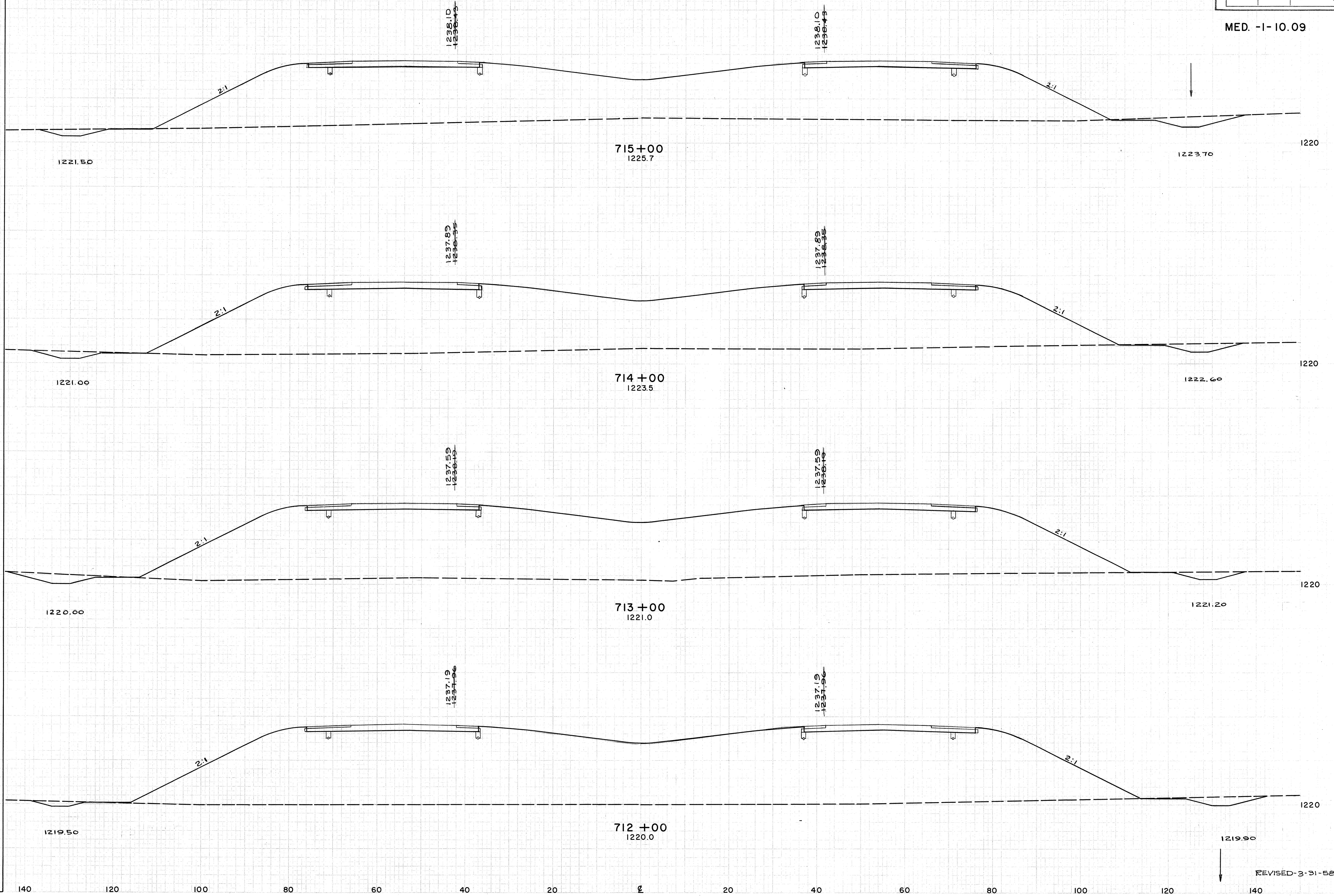
STA. 710 +00 TO STA. 711 +00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

58
189

MED. -1- 10.09

SEEDING	
END WIDTH	SQ. YDS.



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
40	2314		
		141	9127
36	2614		
		144	8408
42	2926		
		133	11310
30	3181		
		74	12023

REVISED-3-31-58

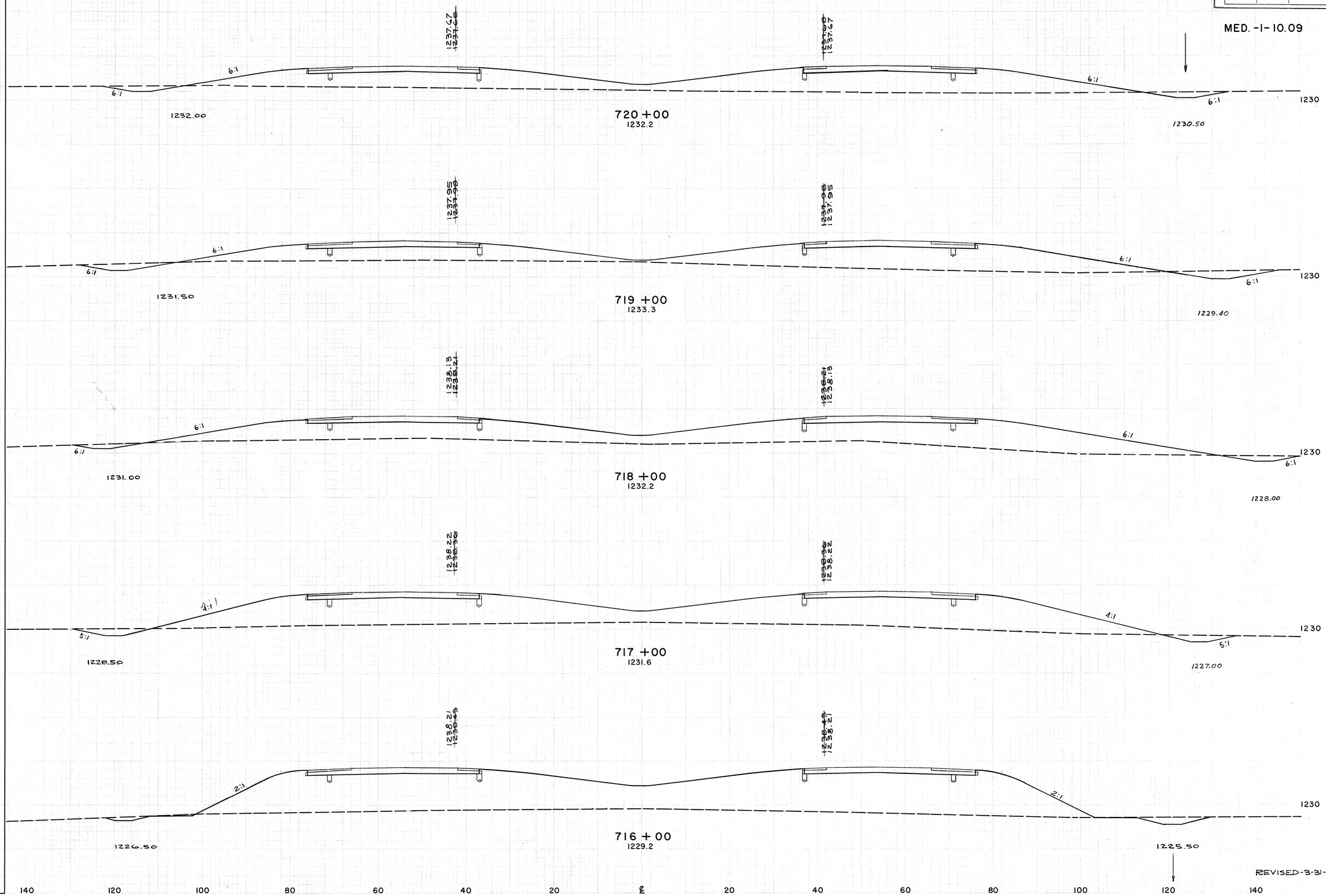
STA. 712 +00 TO STA. 715 +00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

59
189

MED. -I- 10.09

SEEDING	
END WIDTH	SQ. YDS.



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
31	751		
		150	2711
50	713		
		135	3006
23	910		
		100	3884
31	1187		
		98	5052
22	1541		
		115	7139

REVISED-3-31-58

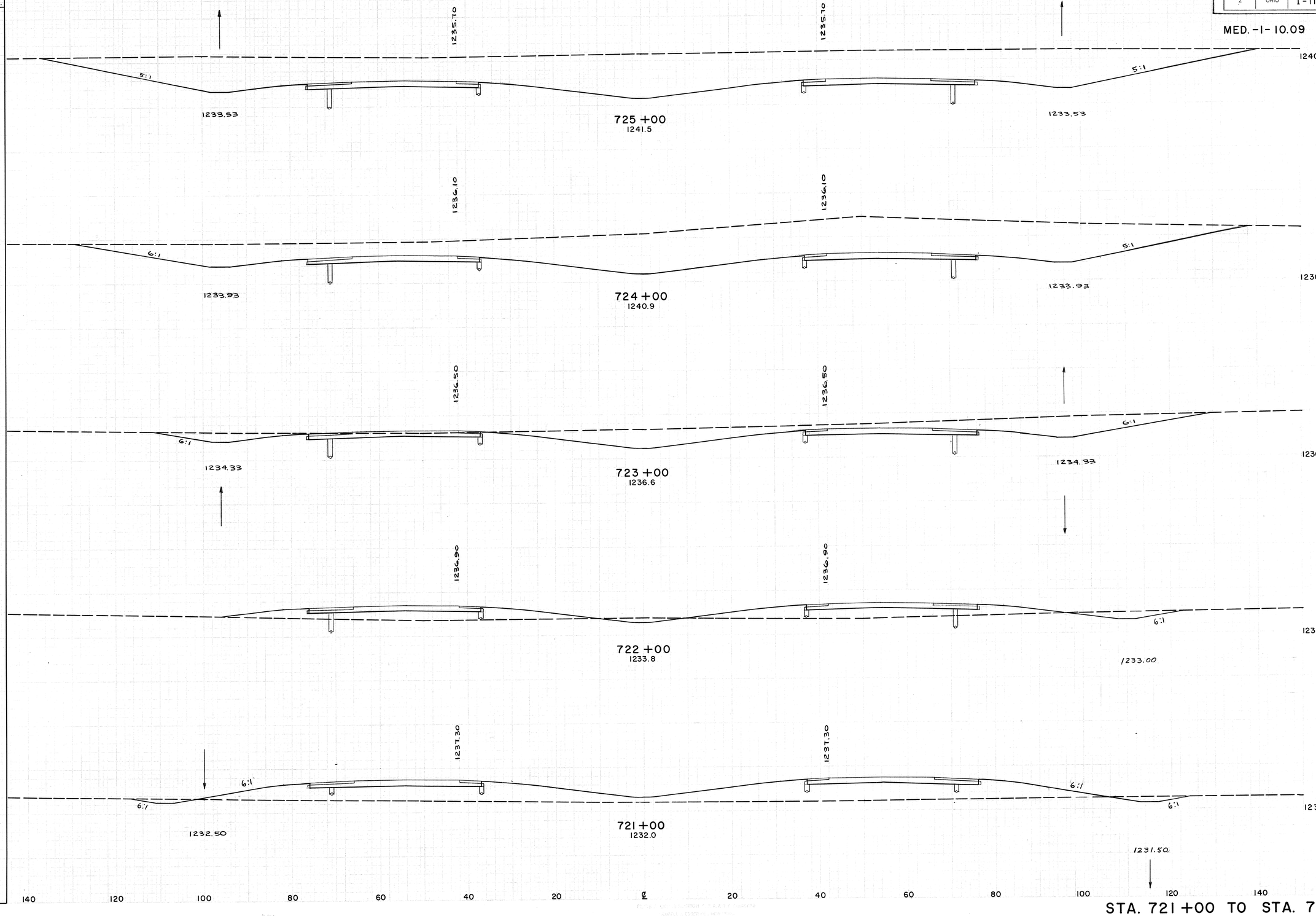
STA. 716+00 TO STA. 720+00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

60
189

MED.-I-10.09

SEEDING	
END WIDTH	SQ. YDS.



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
1812	0		
		6297	0
1588	0		
		3871	0
502	0		
		996	537
36	290		
		109	1852
23	710		
		100	2706

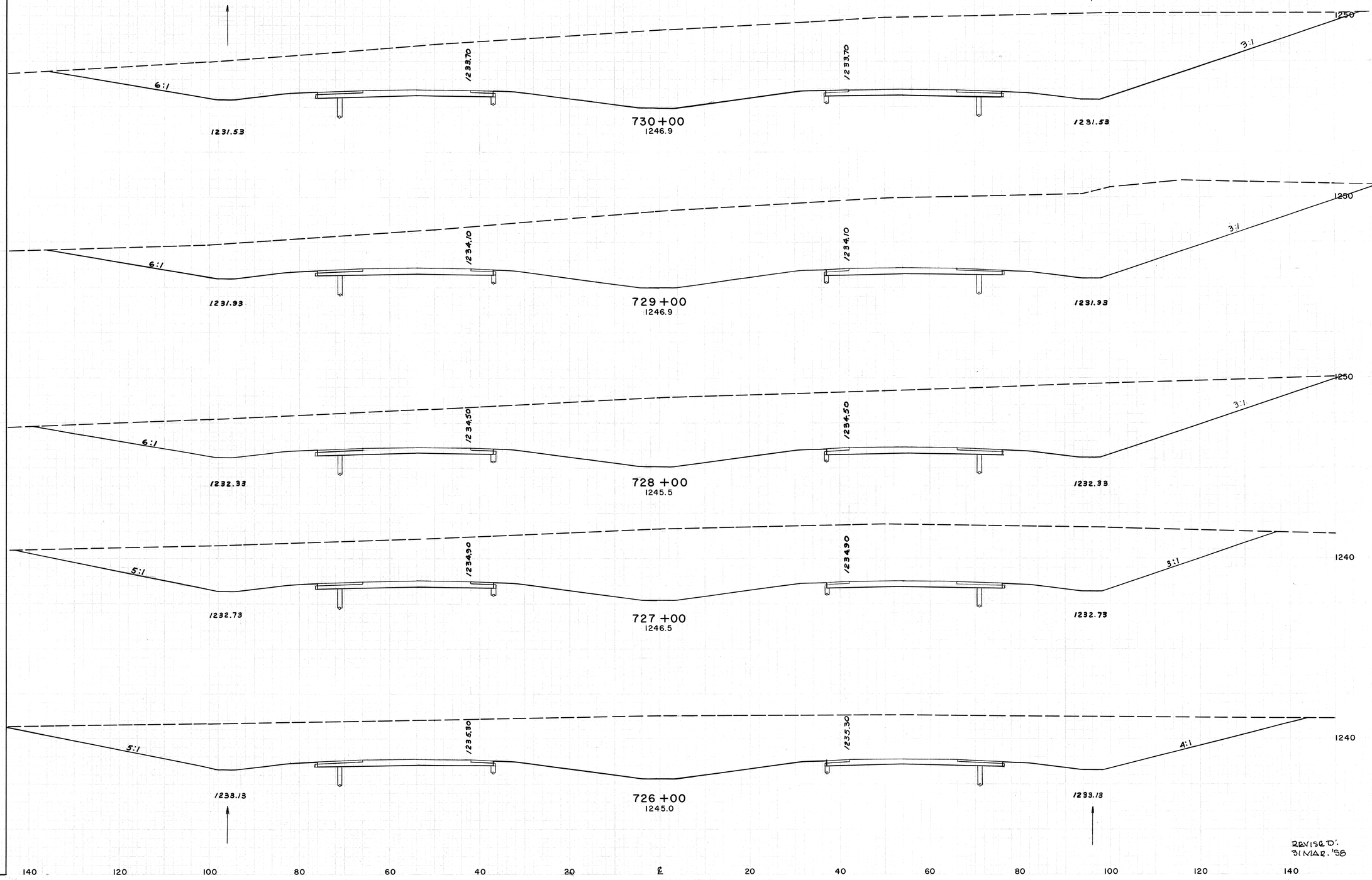
STA. 721+00 TO STA. 725+00

FED. RD.	STATE	PROJECT		61
2	OHIO	I-1105 (25)		189

MED. -1-10.09

NOTE: SEE SHEET No 132-A FOR MEDIAN OUTET DETAIL @ STA 730+85

SEEDING	
END WIDTH	SQ. YDS.



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
3484	0		
		12940	0
3503	0		
		12127	0
3045	0		
		11112	0
2955	0		
		10351	0
2634	0		
		8234	0

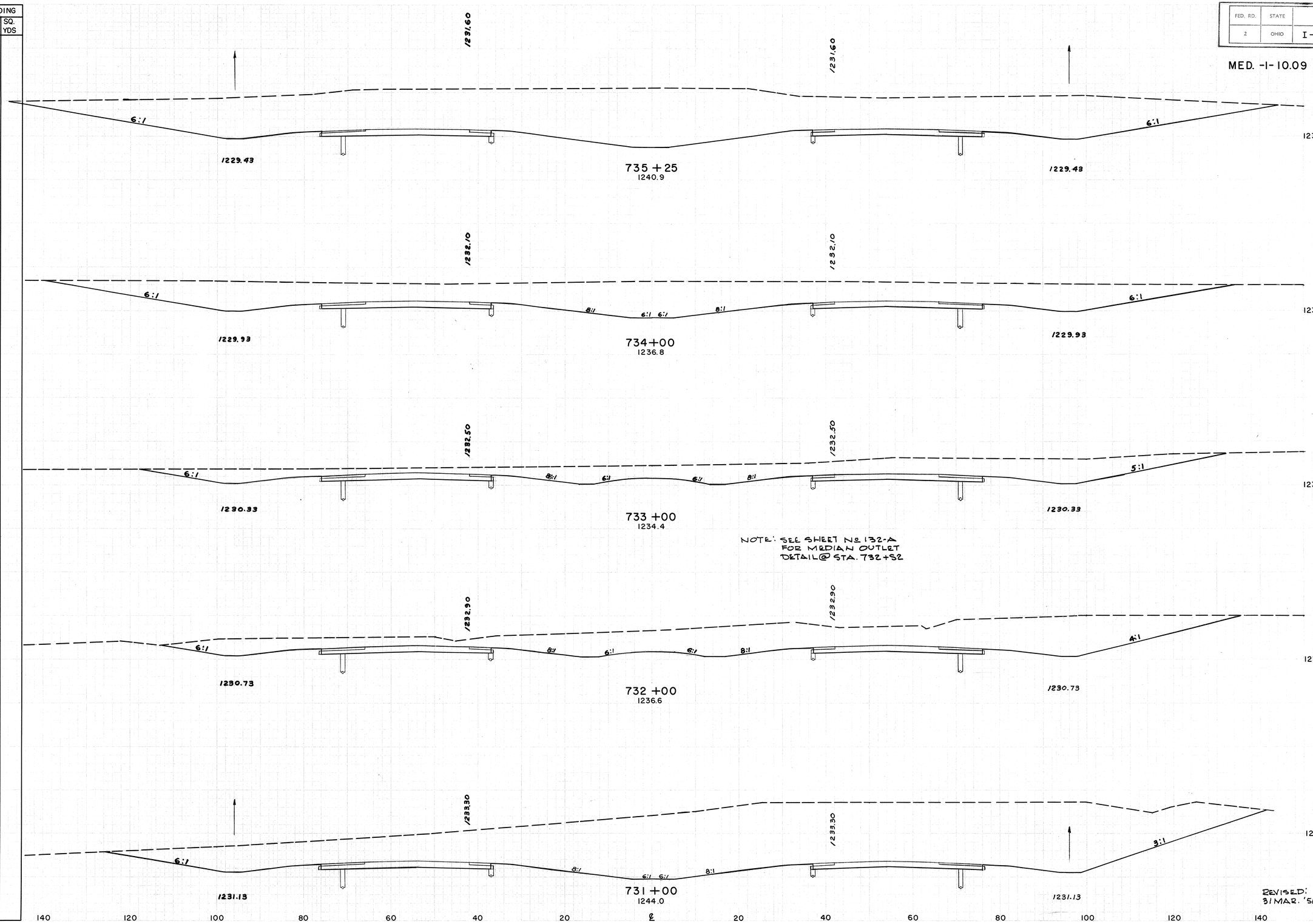
REVISED: 31 MAR. '58

STA. 726+00 TO STA. 730+00

FED. RD.	STATE	PROJECT		62
2	OHIO	I-1105 (25)		189

MED. -I-10.09

SEEDING	
END WIDTH	SQ. YDS



NOTE: SEE SHEET No 132-A FOR MEDIAN OUTLET DETAIL @ STA. 732+52

REVISED: 31 MAR. '58

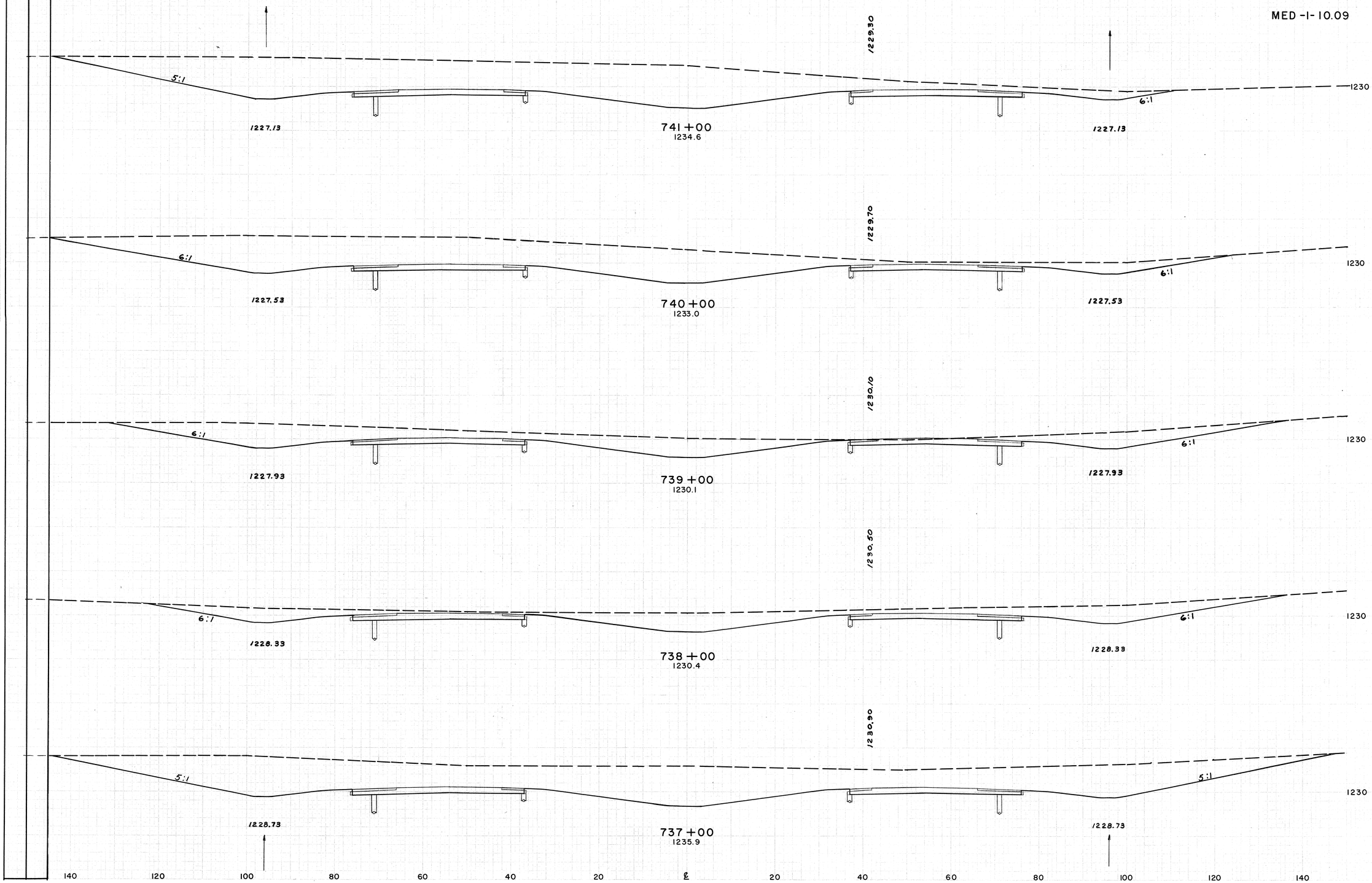
END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
2447	0		
		8969	0
1427	0		
		4167	0
823	0		
		3756	0
1205	0		
		7438	0
2811	0		
		11658	0

STA. 731+00 TO STA. 735+25

FED. RD.	STATE	PROJECT		63
2	OHIO	I-1105 (25)		189

MED-I-10.09

SEEDING	
END WIDTH	SQ. YDS.



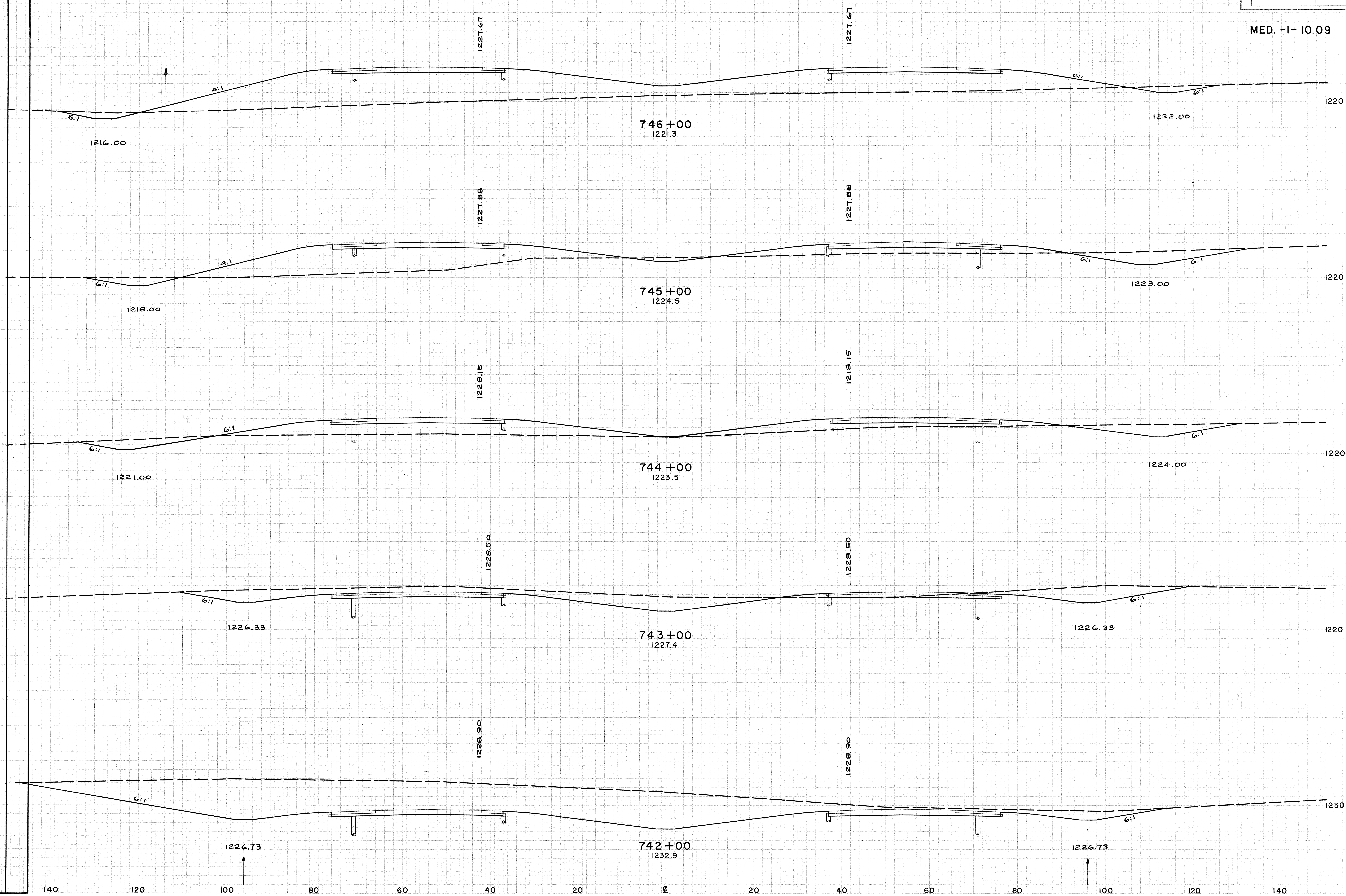
END AREA		CU. YDS	
CUT	FILL	CUT	FILL
1410	0		
		4832	0
1199	0		
		3487	0
684	0		
		2313	0
565	0		
		4211	0
1709	0		
		13470	0

FINAL CROSS SECTIONS O.D.O.T. STANDARD

STA. 737+00 TO STA. 741+00

MED. -1- 10.09

SEEDING	
END WIDTH	SQ. YDS.



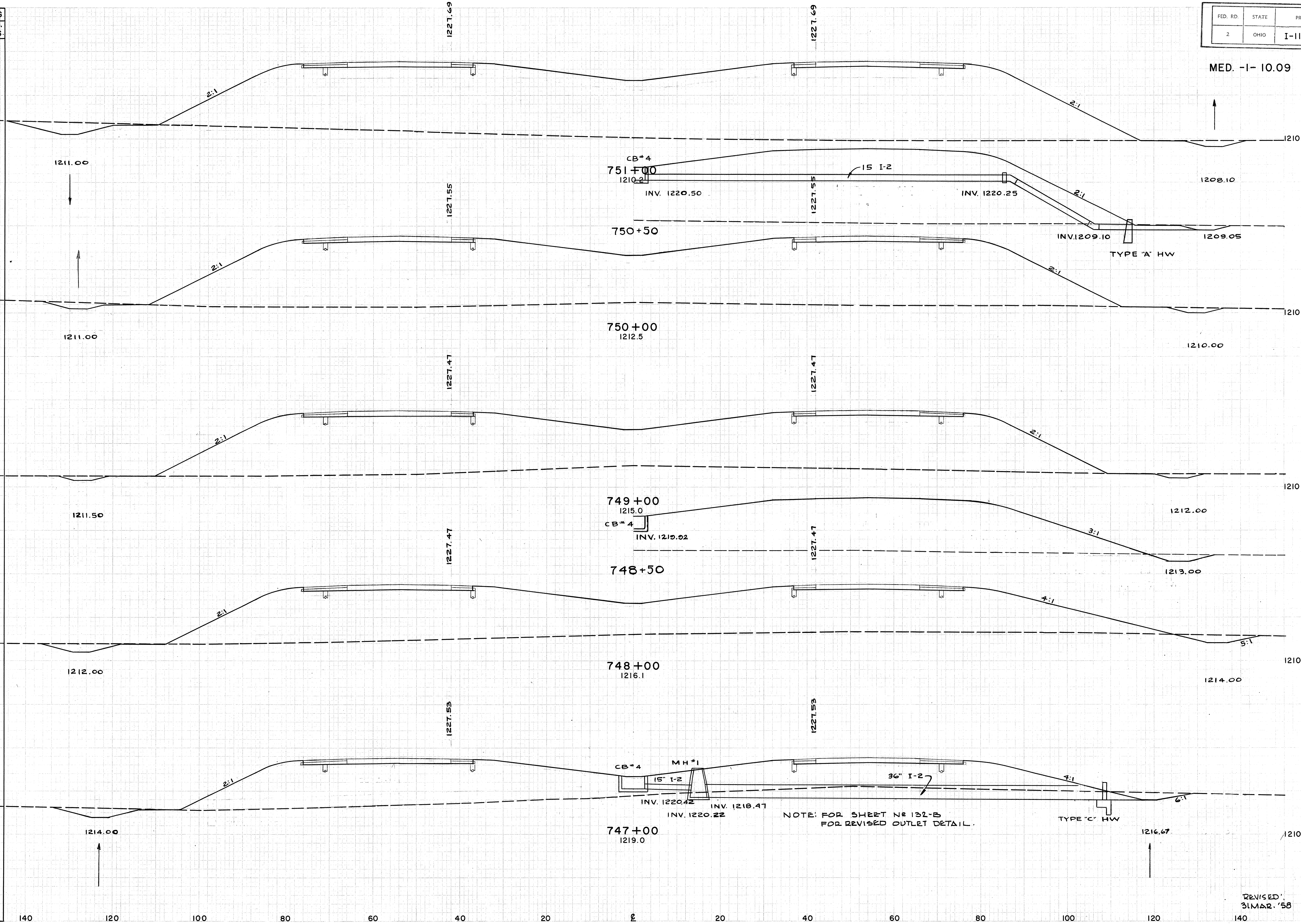
END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
30	1045		
		224	2847
91	492		
		332	1457
88	294		
		859	559
376	8		
		3021	15
1255	0		
		4936	0

STA. 742+00 TO STA. 746+00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	65/189

MED. -1- 10.09

SEEDING	
END WIDTH	SQ. YDS.



1227.69
2:1
1210
1211.00
CB#4
751+00
1210.2
15 I-2
INV. 1220.50
INV. 1220.25
1208.10
1227.55
750+50
INV.1209.10
1209.05
TYPE "A" HW
750+00
1212.5
1211.00
1210.00
1227.47
749+00
1215.0
1211.50
1212.00
CB#4
INV. 1219.92
3:1
1213.00
748+50
4:1
5:1
748+00
1216.1
1212.00
1214.00
1227.53
CB#4
MH#1
15" I-2
36" I-2
INV. 1220.42
INV. 1220.22
INV. 1218.47
NOTE: FOR SHEET № 132-B FOR REVISED OUTLET DETAIL.
TYPE "C" HW
6:1
747+00
1219.0
1214.00
1216.67
REVISED. 31MAR. '58
140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

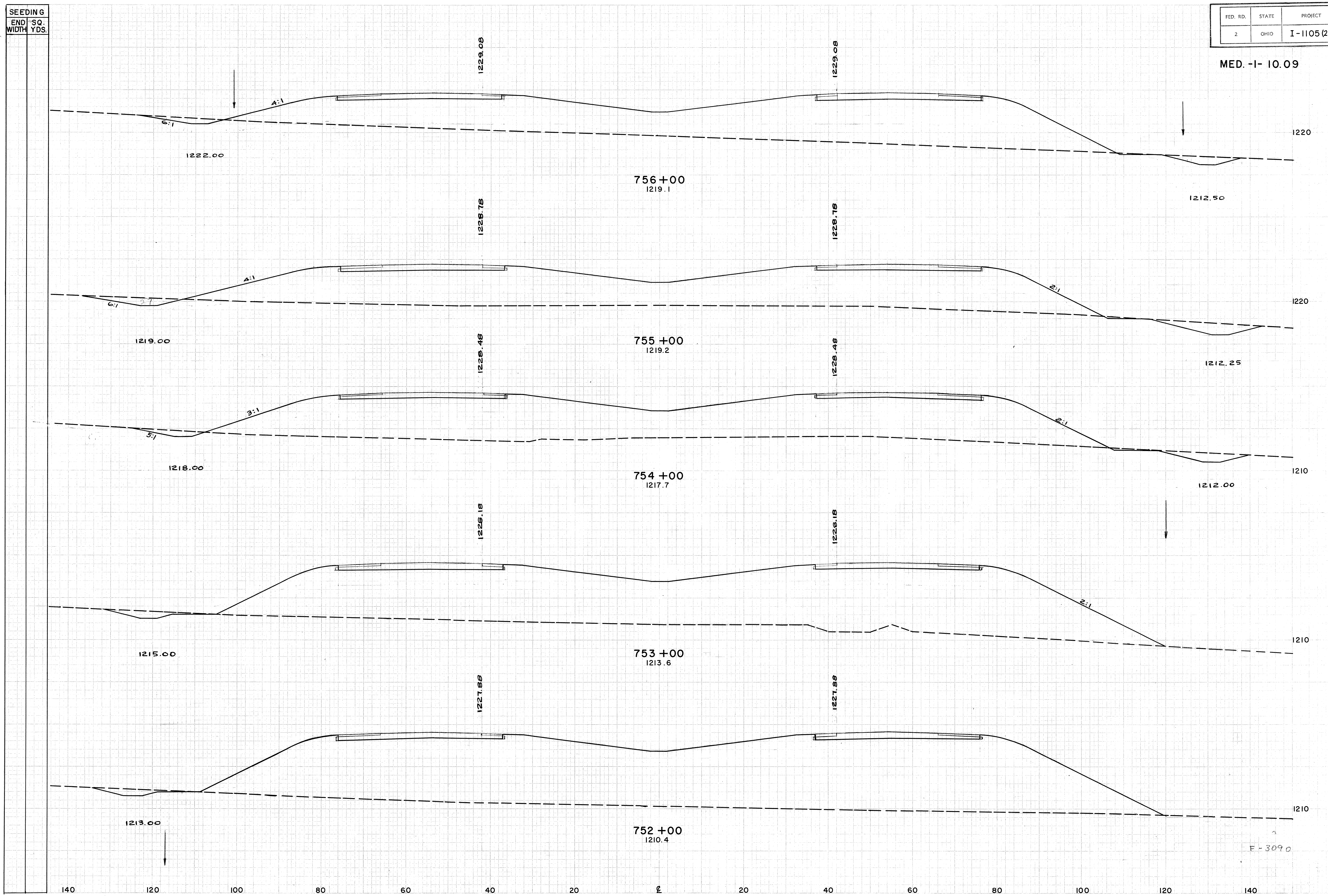
END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
29	3039		
		104	10684
27	2731		
		80	9312
16	2297		
		113	7880
45	1958		
		152	6115
37	1344		
		124	4424

STA. 747+00 TO STA. 751+00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

66
189

MED. -I- 10.09



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
31	1562		
		163	5849
57	1596		
		183	6217
42	1761		
		119	7832
22	2468		
		76	10293
19	3090		
		89	11351
		89	11351

STA. 752 +00 TO STA. 756+00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

67
189

MED-I-10.09

SEEDING	
END WIDTH	SQ. YDS.

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
154	1763		
		437	5830
82	1385		
		309	4195
85	1204		
		187	4795
16	1412		
		72	5308
23	1454		
		100	558

761+00
1220.1

1230.58 1230.58

1219.00 1220 1220 1218.00

760+00
1223.4

1230.28 1230.28

1220.00 1220

759+00
1221.5

1229.98 1229.98

1221.00 1220 1220 1217.00

758+00
1220.5

1229.68 1229.68

1222.00 1220 1220

757+00
1219.9

1229.38 1229.38

C.B.#4
15" I.2
INV. 1222.26
INV 1222.01
NOTE: SEE SHEET Nº 132-B FOR REVISED OUTLET DETAIL.
INV. 1213.05
TYPE "A" HW

1223.00 1220 1218.00 1213.00

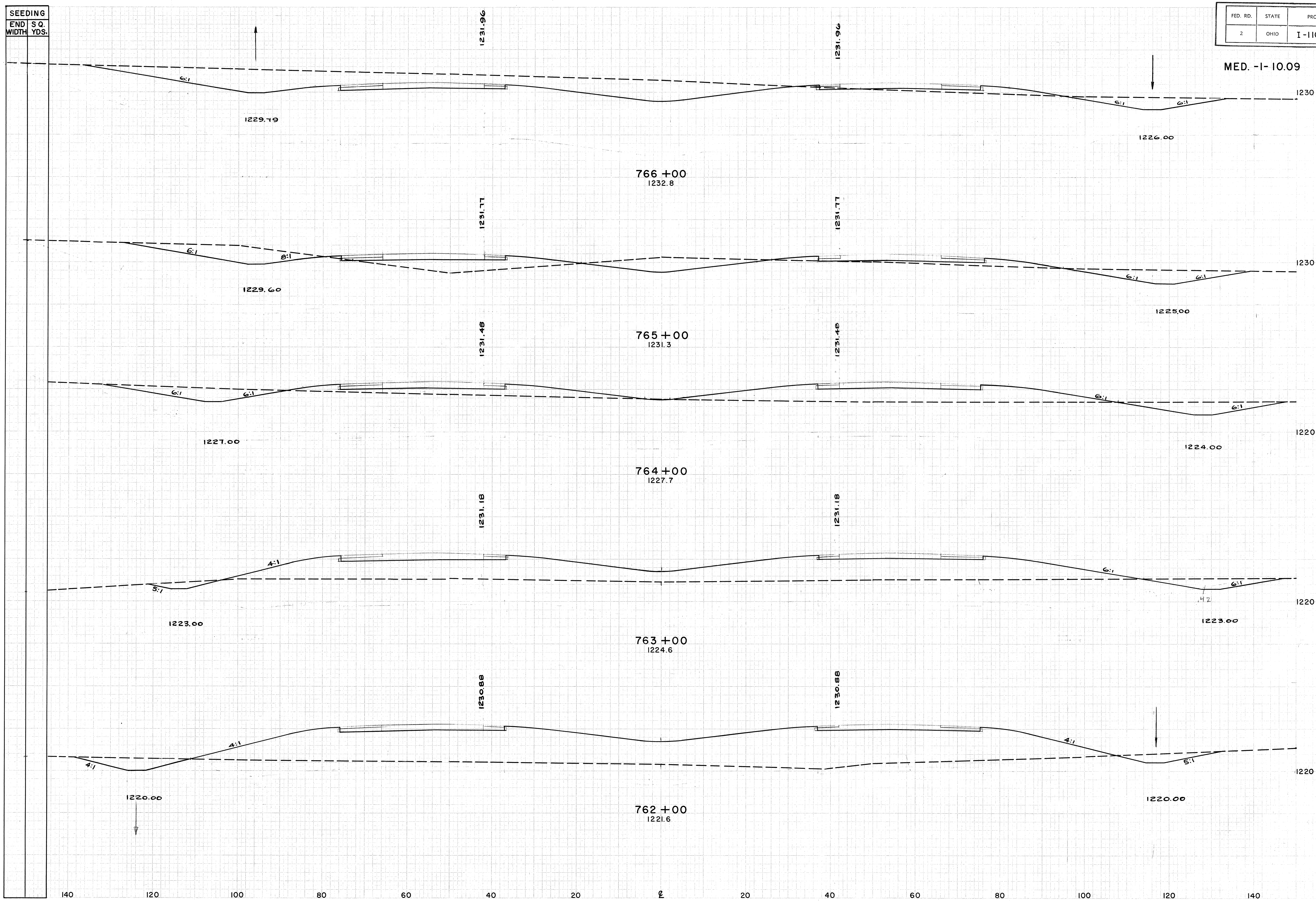
REVISED: 31 MAR. '58

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

STA. 757+00 TO STA. 761+00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

MED. -1- 10.09



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
573	38		
		1517	126
246	30		
		672	756
117	378		
		324	2293
58	860		
		228	4185
65	1400		

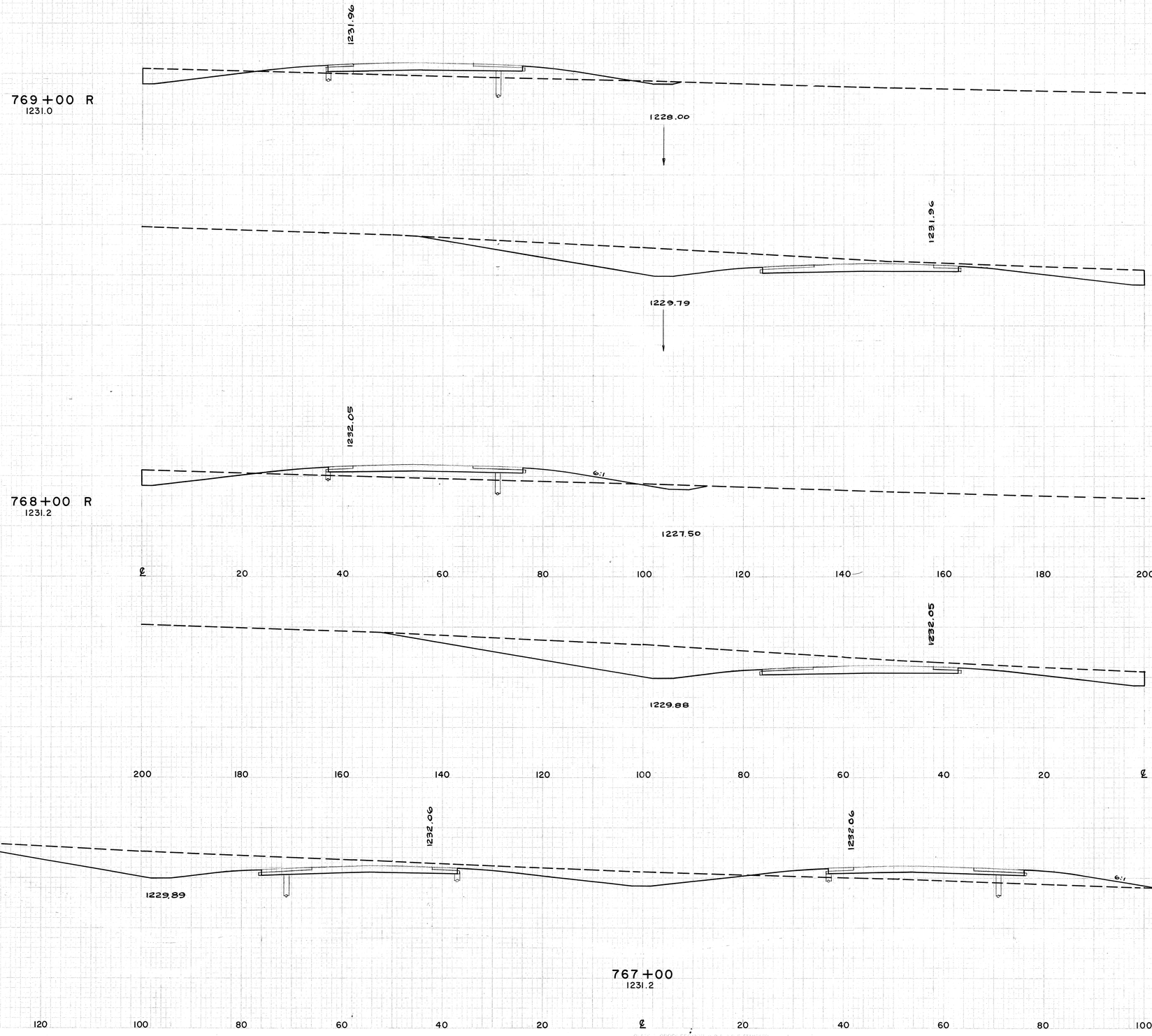
STA. 762 +00 TO STA. 766 +0

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

69
189

MED. -I- 10.09

SEEDING	
END WIDTH	SQ. YDS.



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
401	84		
		1717	359
526	110		
		1733	426
410	120		
		1820	293

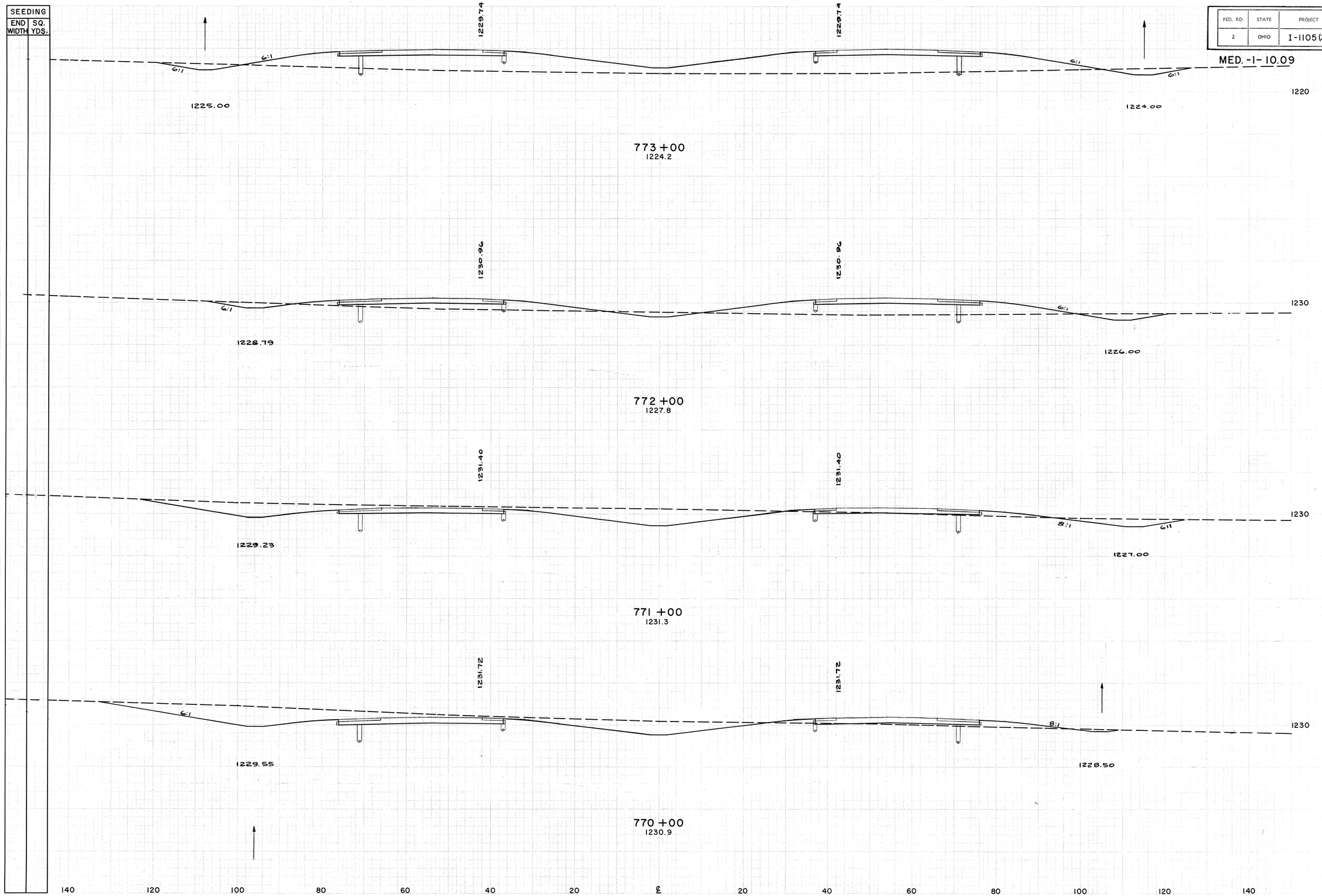
STA. 767+00 TO STA. 769+00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

70
189

MED.-I-10.09

SEEDING		END AREA		CU. YDS.	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
		31	687		
				150	1794
		50	282		
				689	556
		322	18		
				1261	74
		359	22		
				1407	196



STA. 770+00 TO STA. 773+00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105-(25)	

71
189

MED. -1- 10.09

SEEDING	
END WIDTH	SQ YDS.

778+00
1216.7

6:1 6:1

1210

CHANNEL RELOCATION

TYPE "A" HW

1217.20

30" I-2

1217.10

1216.70

TYPE "A" HW

1216.30

1210

777+00
1217.8

1225.44

1225.44

NOTE: SEE SHEET NO 132-B FOR REVISED I-2 DETAIL.

15" I-2

INV. 1216.69

776+86

6:1 6:1 6:1

TYPE "A" HW

1219.00

1219.50

1218.30

1217.00

1218.50

1210

776+00
1218.8

1224.97

1224.97

6:1 6:1

1220.00

1220

1218.00

775+00
1220.1

1228.41

1228.41

6:1 6:1

1222.00

1220

1220.00

774+00
1221.8

REVISED:
31 MAR. '58

140 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 140

STA. 774+00 TO STA. 778+00

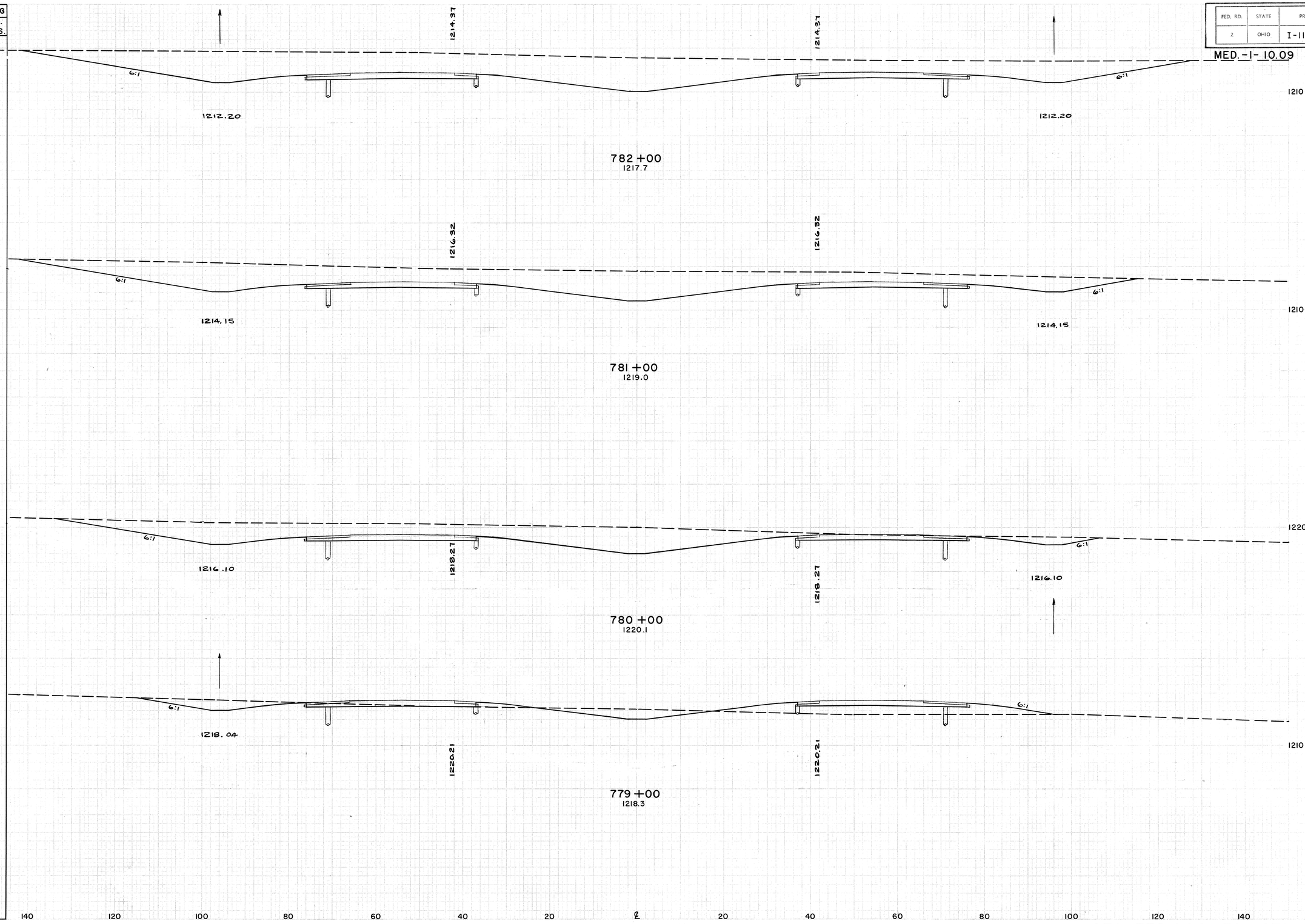
END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
0	660		
		81	2937
44	926		
		122	3597
22	1016		
		115	3804
40	1038		
		157	3715
45	968		
		141	3065

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

72
189

MED.-I- 10.09

SEEDING END WIDTH	SEEDING SQ. YDS.

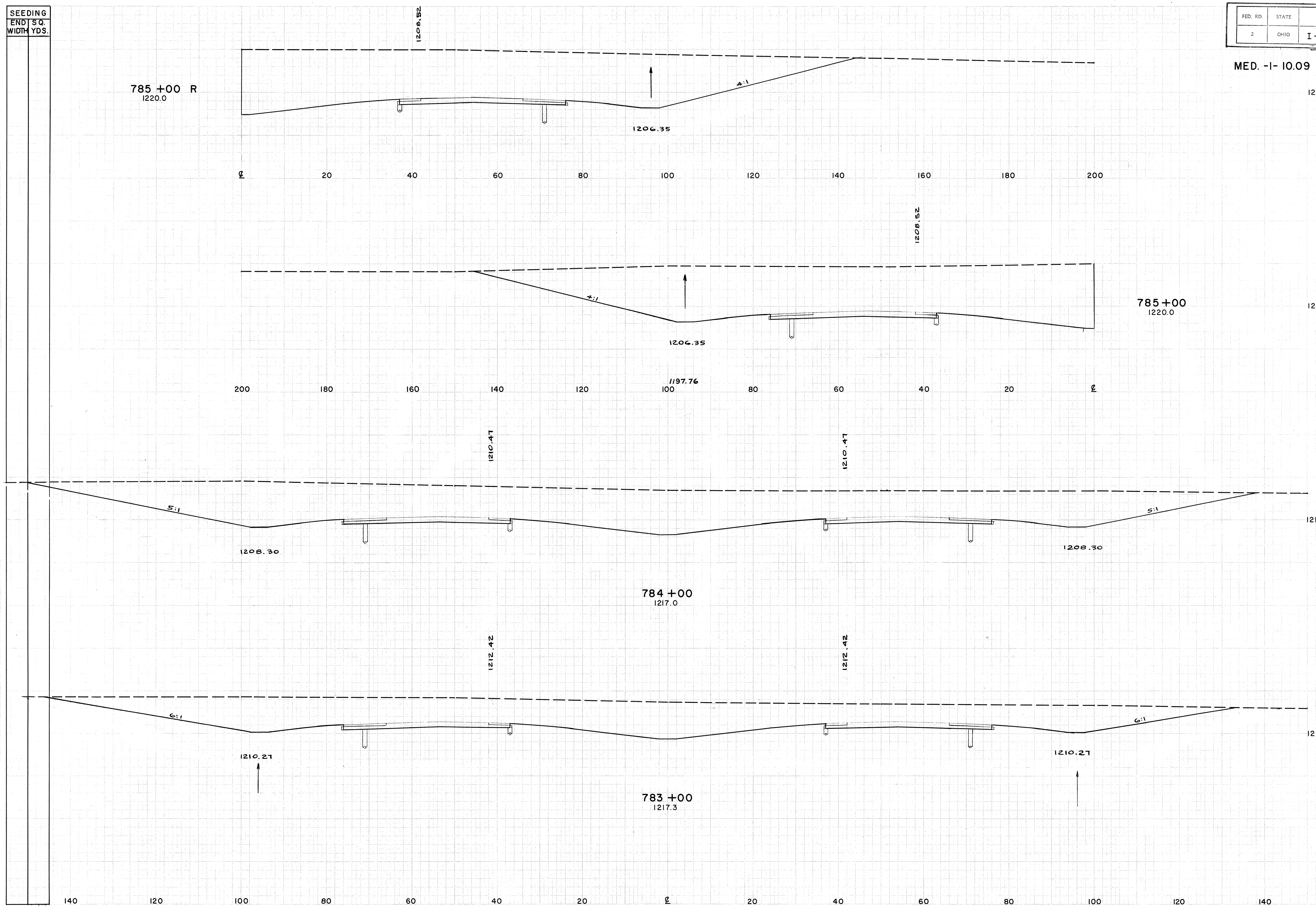


END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
1305	0		
		4261	0
996	0		
		3096	0
676	0		
		1448	217
106	117		
		196	1439

STA. 779+00 TO STA. 782+00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

MED. -I- 10.09



END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
3049	0		
		9594	0
2132	0		
		6926	0
1608	0		
		5394	0

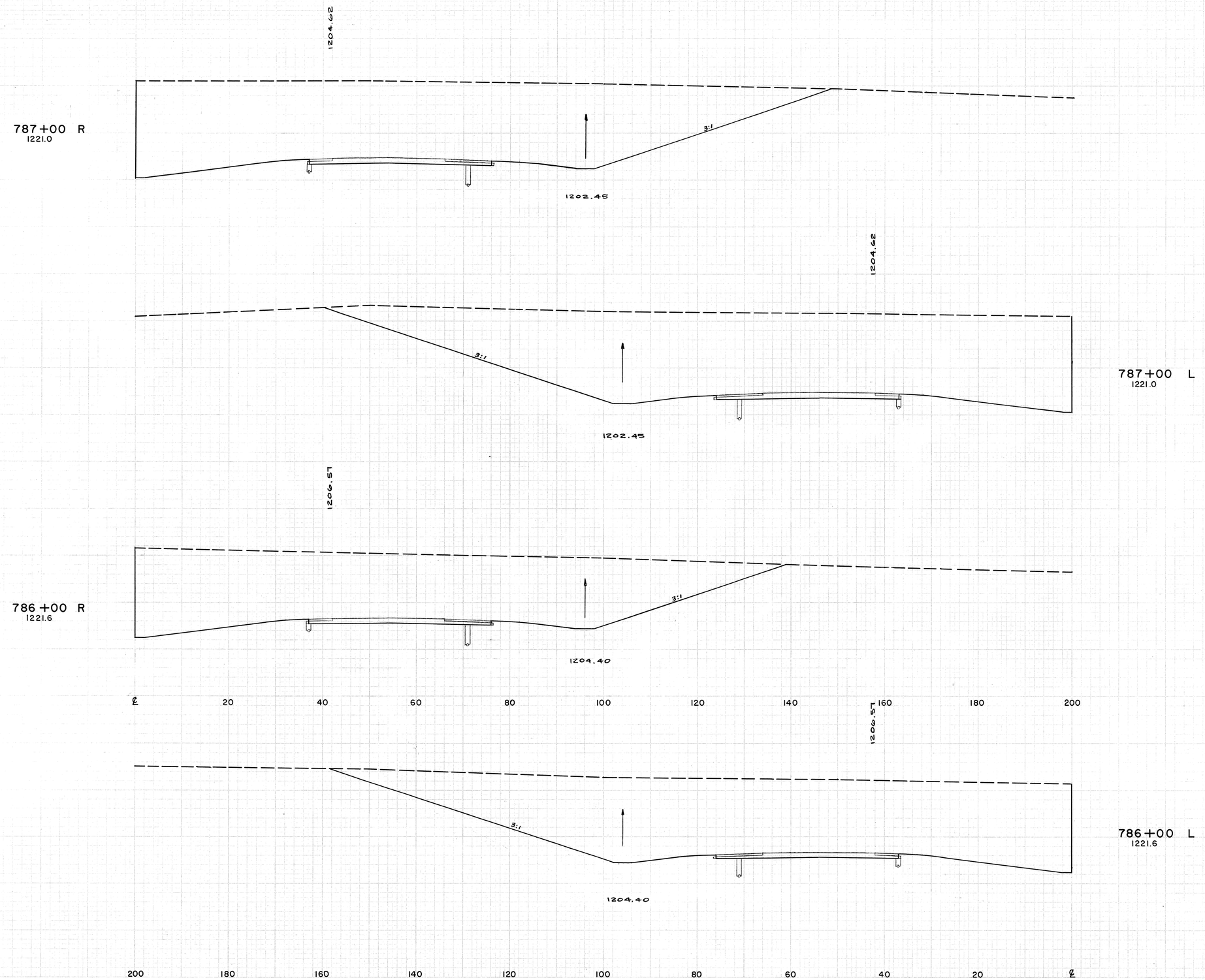
STA. 783+00 TO STA. 785+00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

74
189

MED. -1- 10.09

SEEDING	
END WIDTH	SQ. YDS.



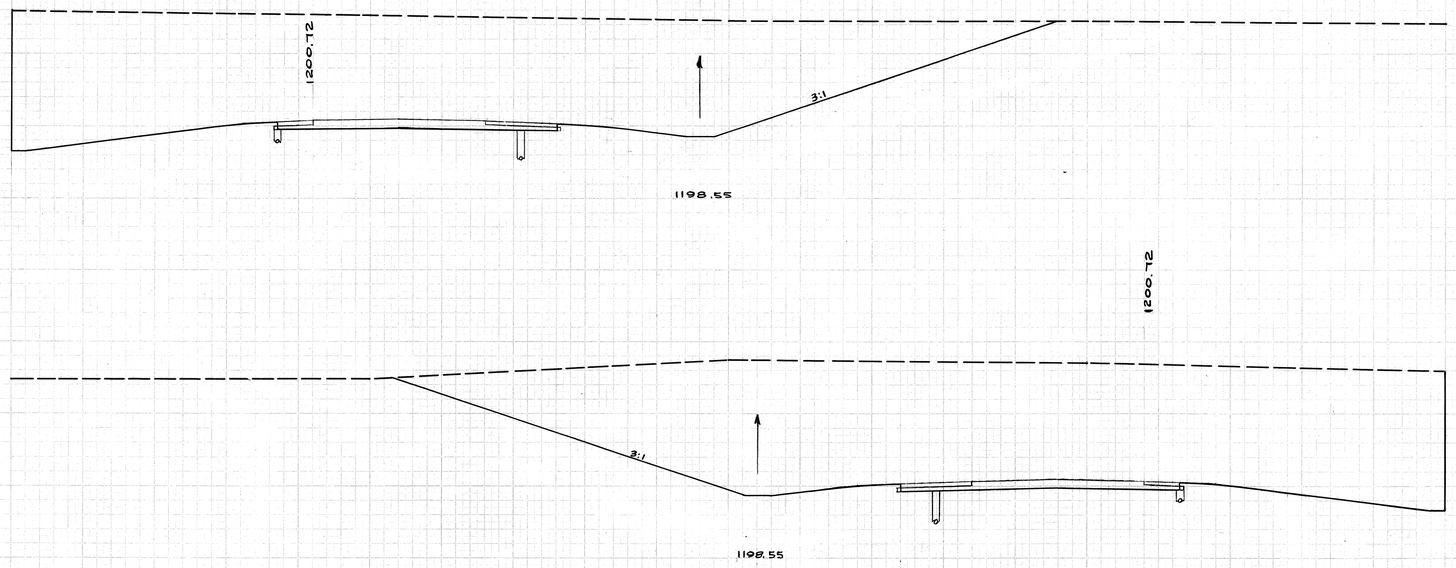
END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
1220			
4668	0		
1220			
		16015	0
1220			
		3980	0
1220			
		13017	0

STA. 786+00 TO STA. 787+00

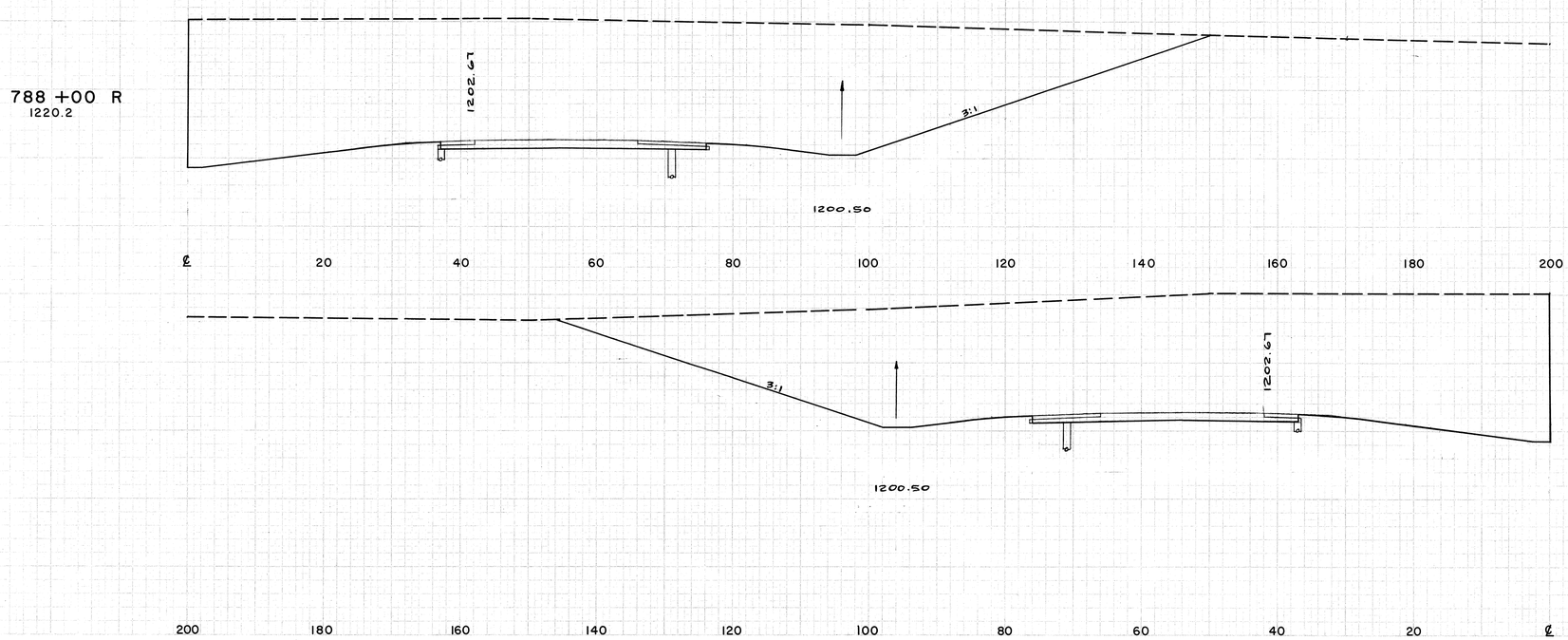
FED. RD.	STATE	PROJECT		75 189
2	OHIO	I-1105 (25)		

MED.-I-10.09

SEEDING	
END WIDTH	SQ. YDS.



NOTE: SEE SHEET NO 132-B FOR REVISED I-2 DETAIL @ STA. 788+55



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
1210			
4077	0		
1210			
		16239	0
1220			
4692	0		
1220			
		11333	0

REVISED: 31 MAR. '58

PLATE 1-CROSS SECTIONS U.S.B.P.R. STANDARDS
CURTIS & DAVIES NEW YORK

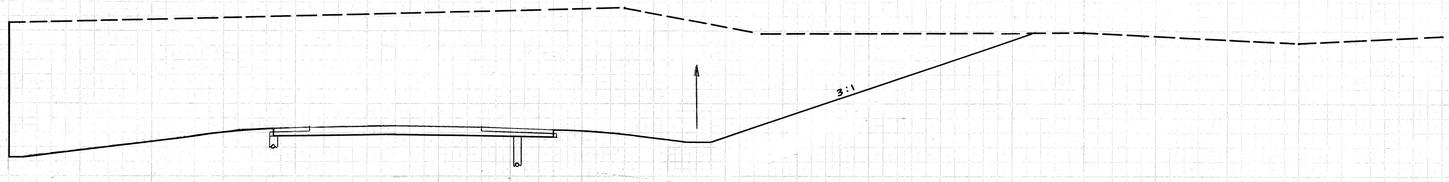
STA. 788+00 TO STA. 789+00

FED. RD.	STATE	PROJECT		76 189
2	OHIO	I-1105 (2.5)		

MED. -I- 10.09

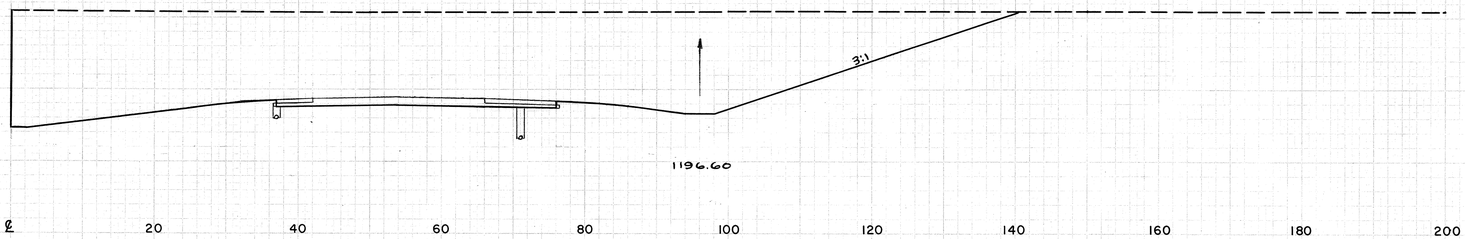
SEEDING	
END WIDTH	SQ. YDS.

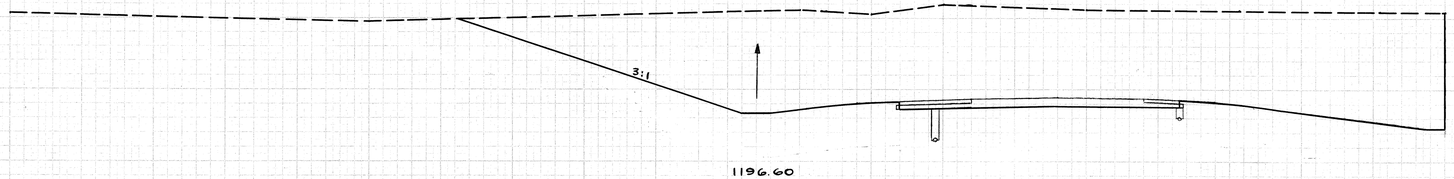
791+00 R
1211.1



791+00 L
1211.1

790+00 R
1210.9





790+00 L
1210.9

℄	20	40	60	80	100	120	140	160	180	200
200	180	160	140	120	100	80	60	40	20	℄

	END AREA		CU. YDS.	
	CUT	FILL	CUT	FILL
1200				
	3535	0		
1200				
			12533	0
1210				
			3233	0
1210				
			13691	0

STA. 790+00 TO STA. 791+00

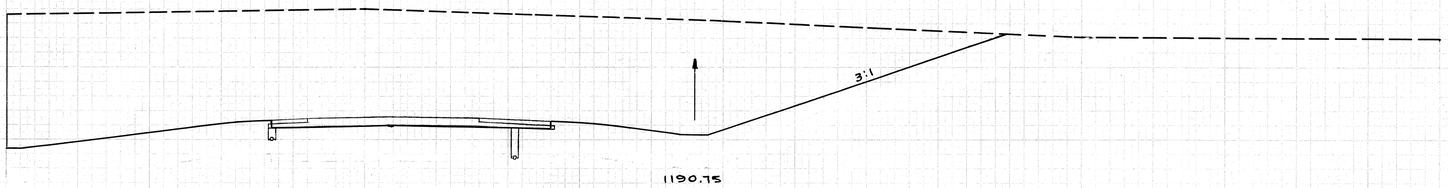
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

77
189

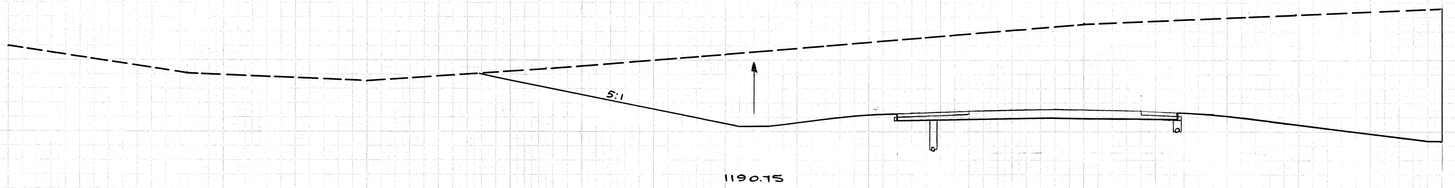
MED. -I- 10.09

SEEDING	
END WIDTH	SQ. YDS.

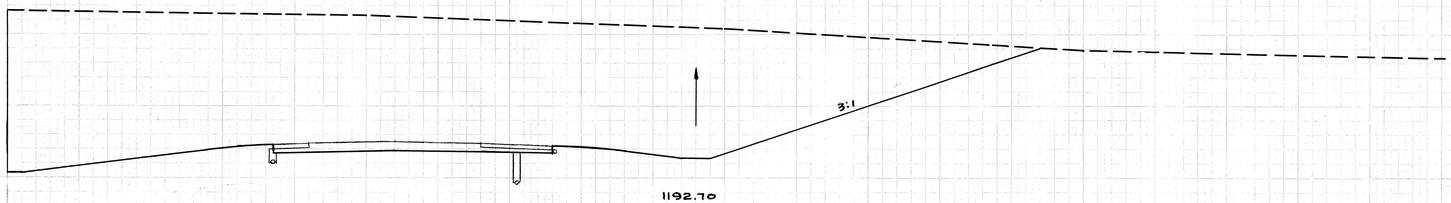
793 +00 R
1207.2



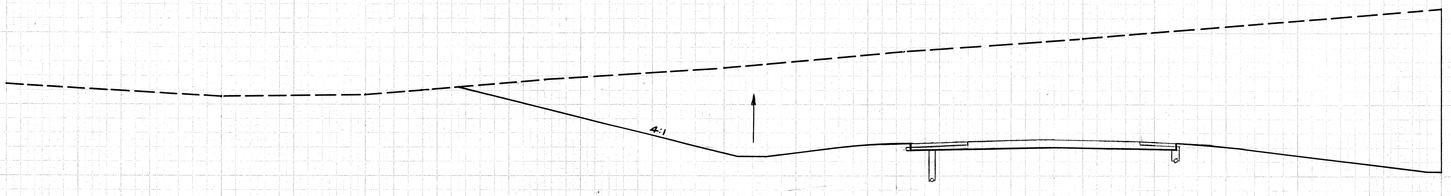
793+00 L
1207.2



792 +00 R
1213.3



792+00 L
1213.3



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
3378	0		
1200			
1200			
		13761	0
1200			
		4053	0
1200			
		14052	0

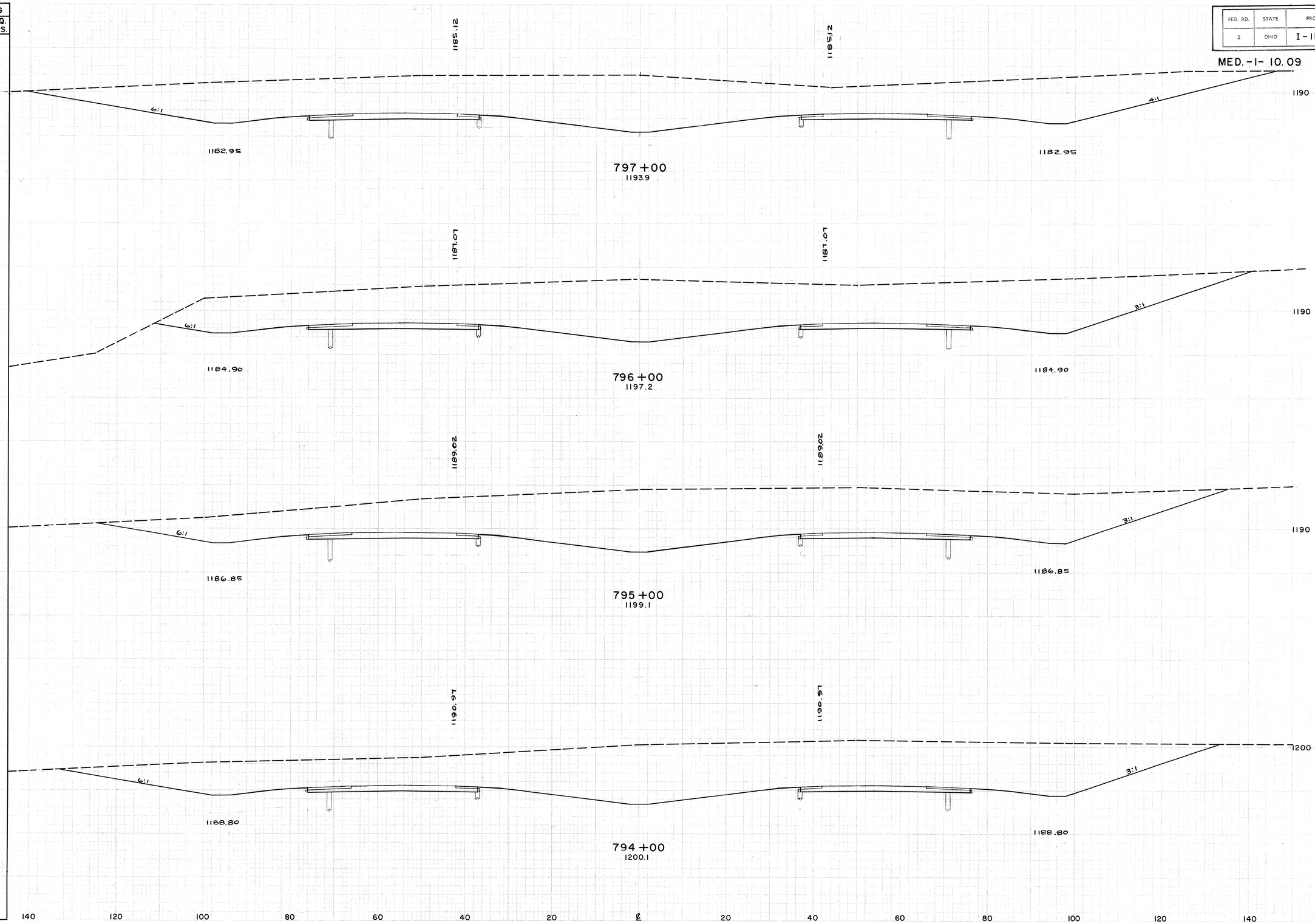
STA. 792 +00 TO STA. 793 +00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

78
189

MED.-I- 10.09

SEEDING	
END WIDTH	SQ. YDS.



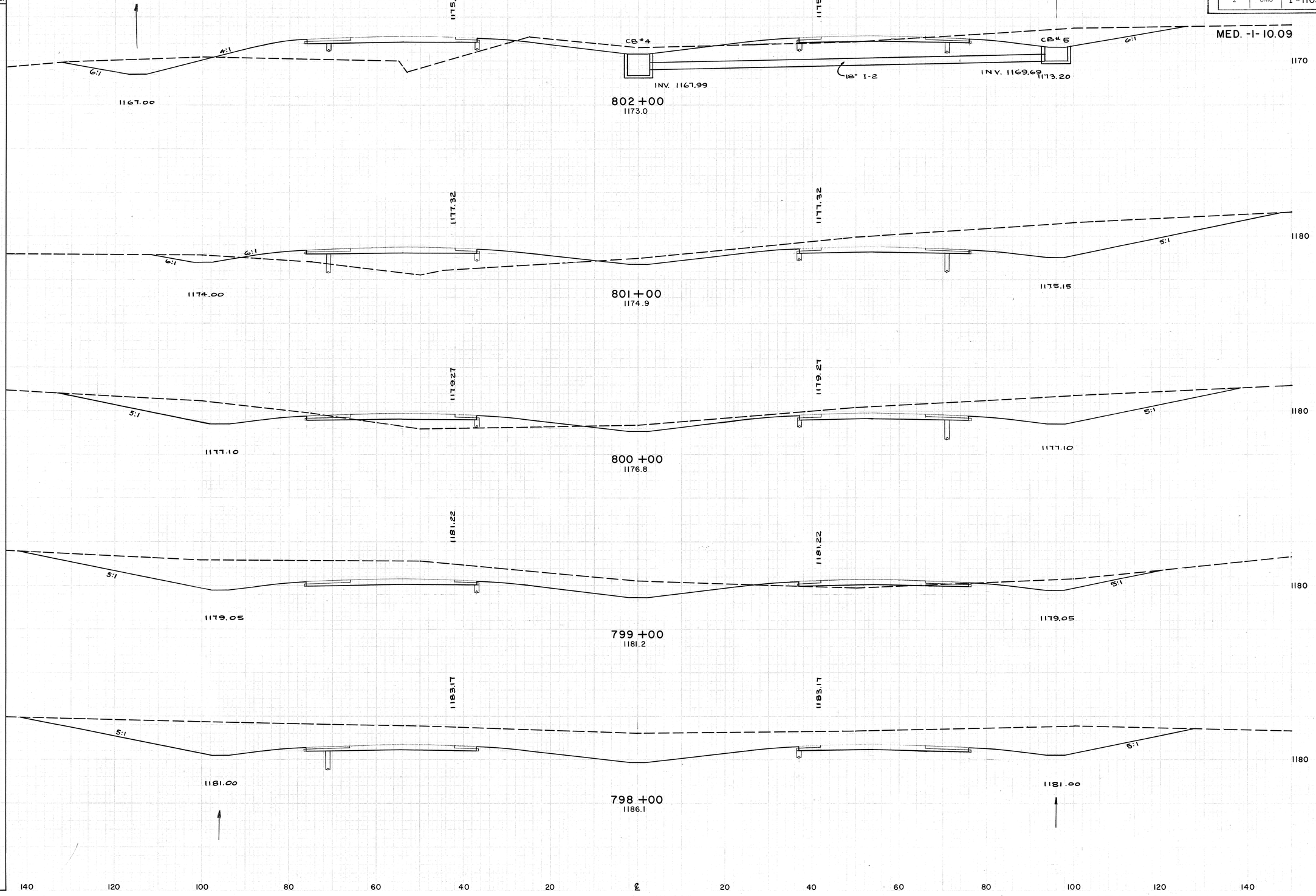
END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
2271	0		
		8639	0
2394	0		
		8730	0
2320	0		
		8519	0
2280	0		
		10478	0

STA. 794+00 TO STA. 797+00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

79
189

SEEDING	
END WIDTH	SQ. YDS.



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
292	262		
		1630	959
588	256		
		2150	654
573	97		
		2411	217
729	20		
		3835	37
1342	0		
		6691	0

STA. 798+00 TO STA. 802+00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

80
189

MED. -1-10.09

SEEDING	
END WIDTH	SQ. YDS.

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
40	512		
		615	1433

STA. 803+00 TO STA. 803+64

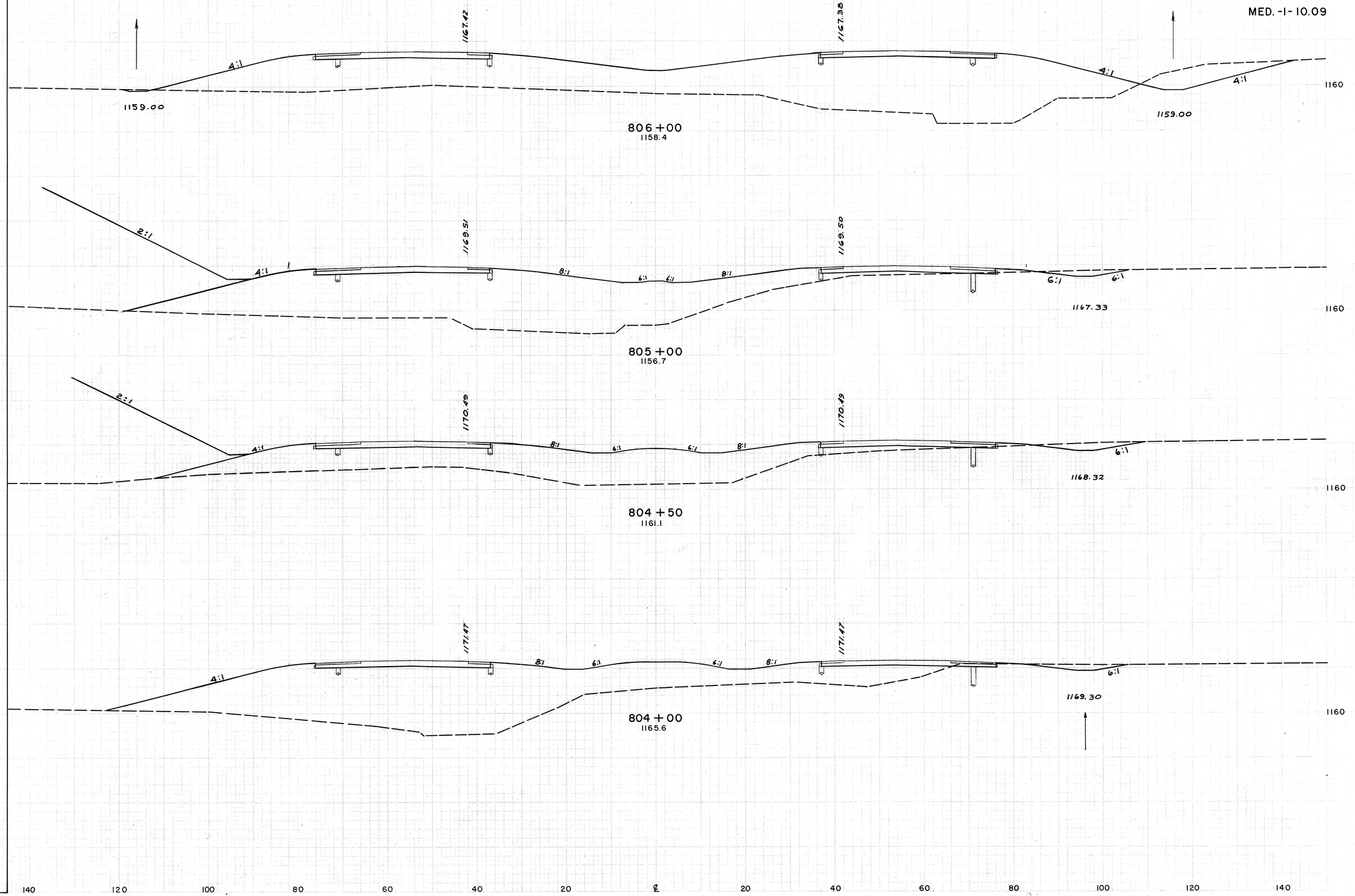
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

81
189

MED. -1- 10.09

SEEDING	
END WIDTH	SQ. YDS.

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
73	1751		
		161	5749
14	1353		
		56	5173
16	1440		
		104	3615



STA. 804+00 TO STA. 806+00

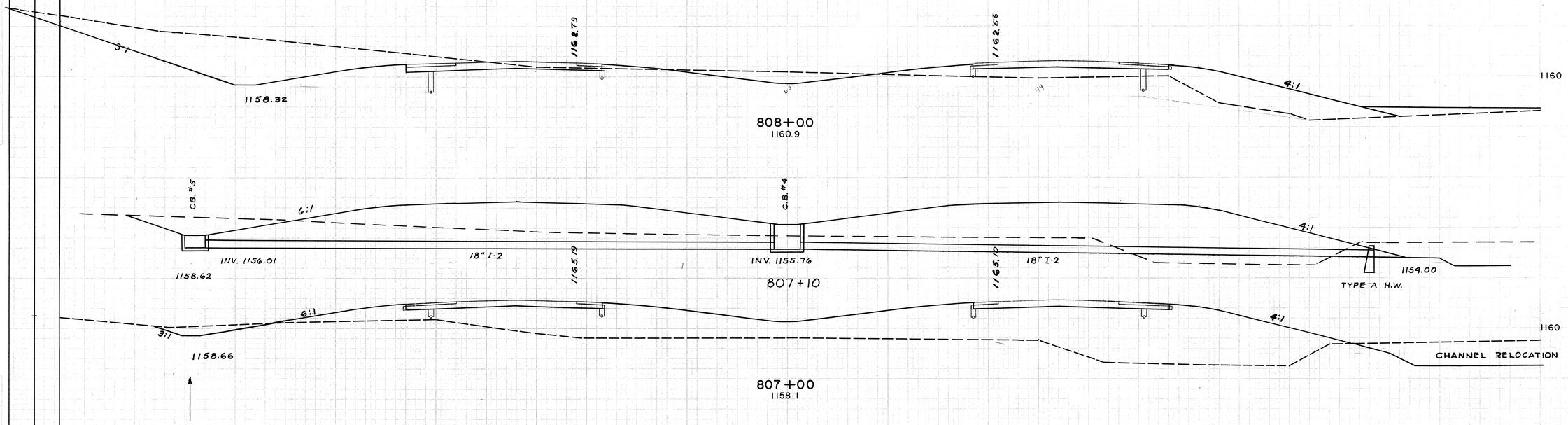
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

82
189

MED. -I-10.09

SEEDING	
END WIDTH	SQ. YDS.

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
477	303		
		939	2858
30	1240		
		191	5539

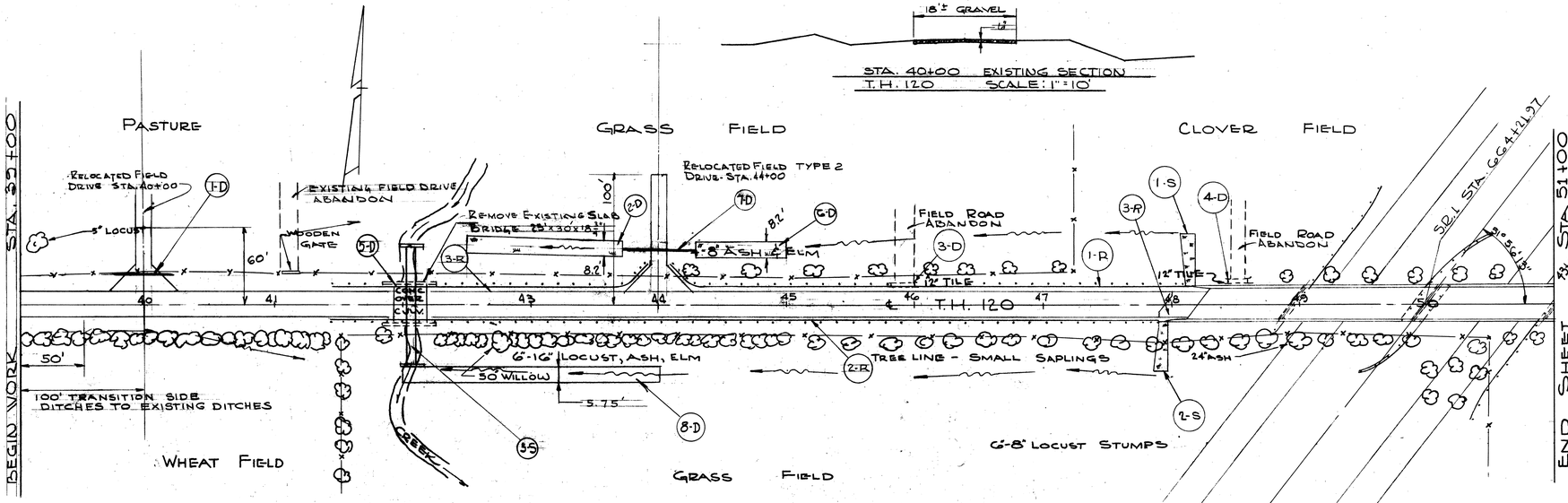


STA. 807+00 TO STA. 808+00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

MED-1-10.09

83
189



DRAINAGE

REF. Nº	STATION FROM	STATION TO	SIDE ℄	L-10 SODDING SIDE DITCH SOLID SQ. YDS.	E-12 PIPE REMOVAL 15" & UNDER LIN. FT.	S-24 REMOVAL OF EXISTING STRUCTURE 25'x5' SLAB CULV. LUMP SUM	I-1 PIPE FOR DRIVEWAY M-1.4.2. LIN. FT. 12"
	6	4					
1-D	39+70	40+20	LT.				48 ~~50~~
2-D	42+50	43+70	LT.	108			
3-D	45+80	46+00	LT.		20		
4-D	48+40	48+56	LT.		16		
5-D	41+00	—	L & R	44+37		1	
6-D	44+30	45+00	LT.	63			
7-D	~~43+90~~	~~45+28~~	LT.				~~66~~ 58
8-D	42+00	44+00	RT.	128			

ROADWAY

REF. Nº	STATION FROM	STATION TO	SIDE ℄	I-15 2A GUARD RAIL STEEL BEAM LIN. FT.	I-7 REINF. CONC. APPR. SLAB CL. "C" SQ. YDS.	B-119 CRUSHED AGGREGT. 8" DEPTH CU. YDS.
1-R	44+16	48+16	LT.	400		
2-R	41+45	47+95	R	650		
3-R	47+95	48+20	℄		7	
4-R	41+47	43+85	LT.	237.5		
5-R	44+00	-	LT.			29

STRUCTURE

REF. Nº	STATION	SIDE ℄	L-10 SODDING BERM PROTECTION SOLID SQ. YDS.	FOR QUANTITY SEE SHEET Nº	STRUCT. Nº	S-27 84" PIPE ROADWAY CULVERT LIN. FT.
1-S	47+15	RT.	43			
2-S	48+15	LT.	42			
3-S	42+00	L & R		129		38

BRIDGE Nº MED-1-1092

TYPE — CONTINUOUS STEEL GIRDER WITH REINFORCED CONCRETE DECK & SUBSTRUCTURE
SPANS: 62'-103.5'-103.5'-62'
ROADWAY — 24' F/F OF 2' SAFETY CURBS
LOAD FREQUENCY — CF 30
SKEW — 38°-03'-47"
WEARING SURFACE — 1½" MONOLITHIC
APPROACH SLAB — 25' LONG
ALIGNMENT — STRAIGHT
SUPERELEVATION — NONE

EXISTING BRIDGE STRUCTURE Nº 3-ROAD 120

TYPE — REINFORCED CONCRETE DECK & RETAINING WALLS: STONE MASONARY STRUCTURE.
SPAN — 25 FEET
HEIGHT — 3.58 FEET

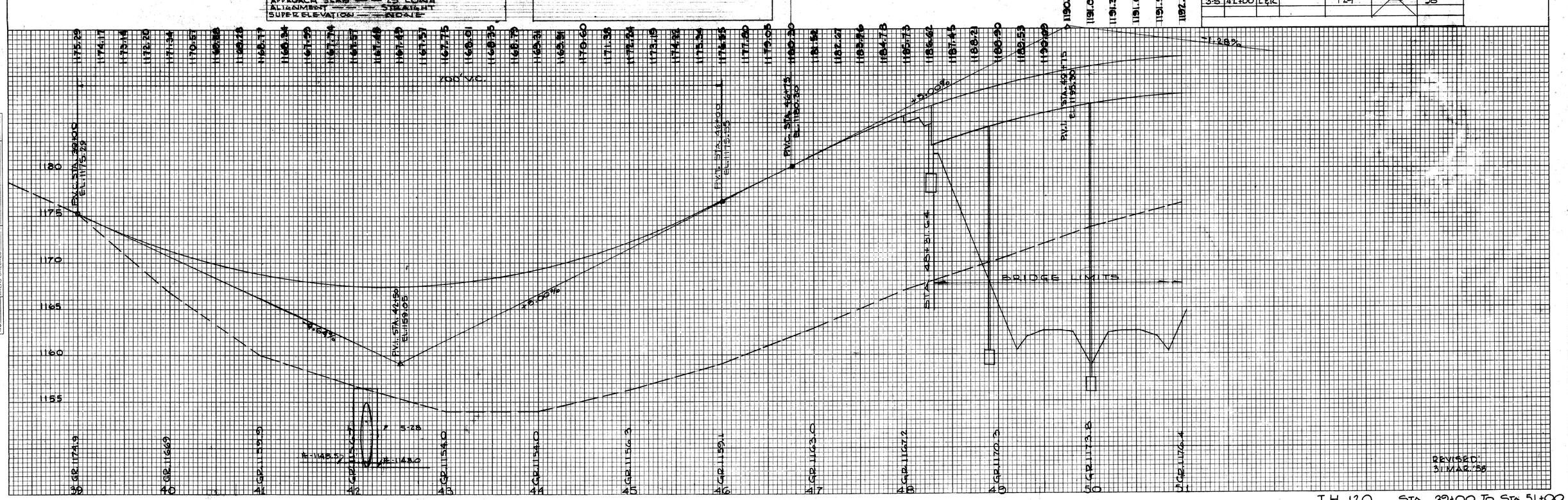


PLATE 4—CROSS SECTION O.P.R.&R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK

REVISED
31 MAR. '58

T.H. 120 STA 39+00 TO STA 51+00
SHEET Nº 1 OF 2

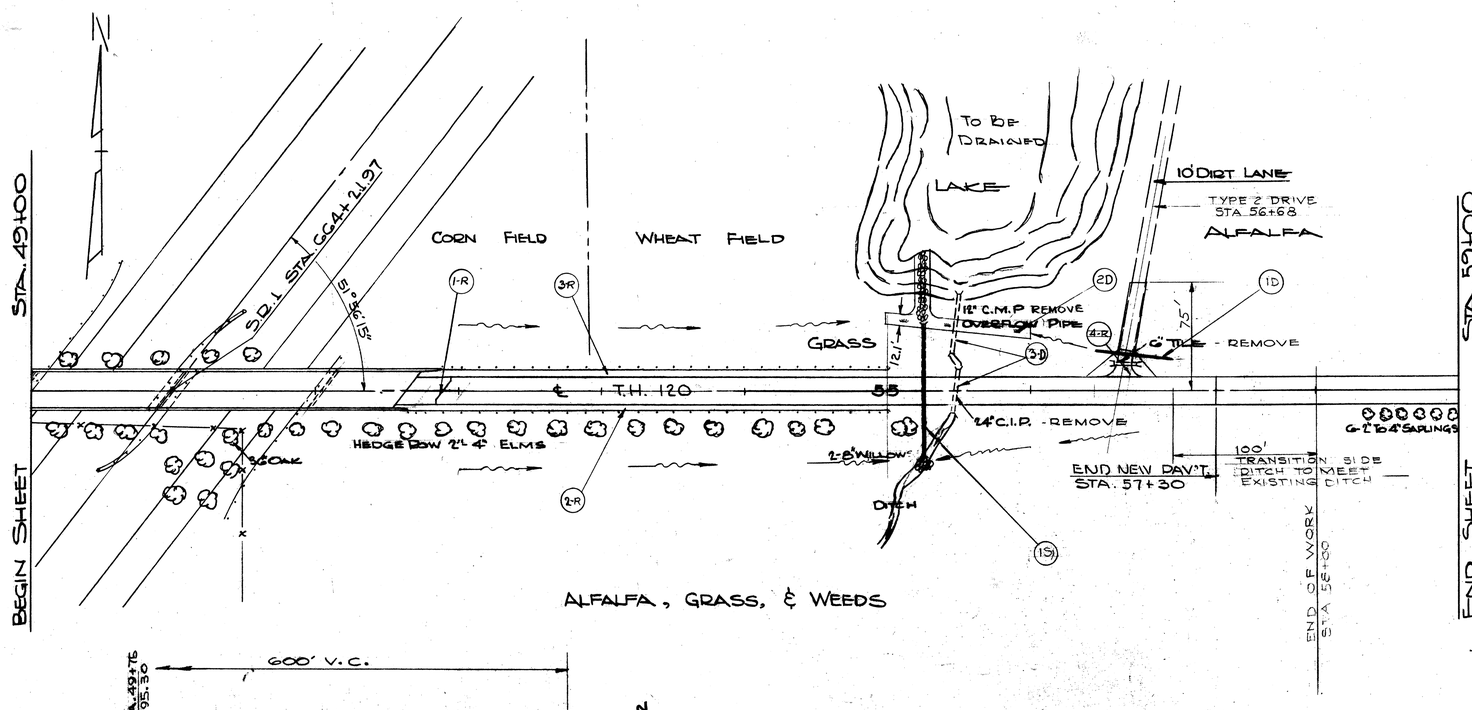
FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED, NOTE BOOK, NO., DATE, BY

ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED, NOTE BOOK, NO., DATE, BY

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

MED-I-10.09

84
189



DRAINAGE

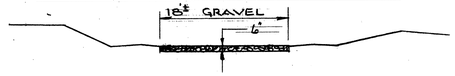
REF. №	STATION FROM	STATION TO	SIDE ℄	I-1 PIPE FOR DRIVEWAY 12" LIN. FT.	L-10 SODDING SIDE DITCH SOLID SQ. YDS.	E-12 PIPE REMOVAL LIN. FT. 15" & UNDER	E-12 PIPE REMOVAL LIN. FT. OVER 15"
1-D	56+48	57+00	LT.	54.48		16	
2-D	55+00	56+00	LT.		134		
3-D	55+47	—	R℄L			42	30

ROADWAY

REF. №	STATION FROM	STATION TO	SIDE ℄	I-15 1.A GUARD RAIL STEEL BEAM LIN. FT.	I-7 REINF. CONCRETE APPR. SLABS CLASS "C" SQ. YDS.	B-19 CRUSHED AGGREGATE 6" CU. YDS.
1-R	51+64	51+89	℄		69.7	
2-R	51+66	55+103	RT.	337.5		
3-R	51+88	55+00	LT.	312.5		
4-R	56+68		LT.			23

STRUCTURES

REF. №	STATION FROM	STATION TO	SIDE ℄	S-27 24" PIPE R'D WAY CULVERT M-6.4 d M-6.6 b LIN. FT.	FOR QUANTITIES SEE SHEET №	STRUCT. №
1-S	55+70	—	L℄R	80.86	129	



STA. 57+00 - EXISTING SECTION
T.H. 120 SCALE: 1"=10'

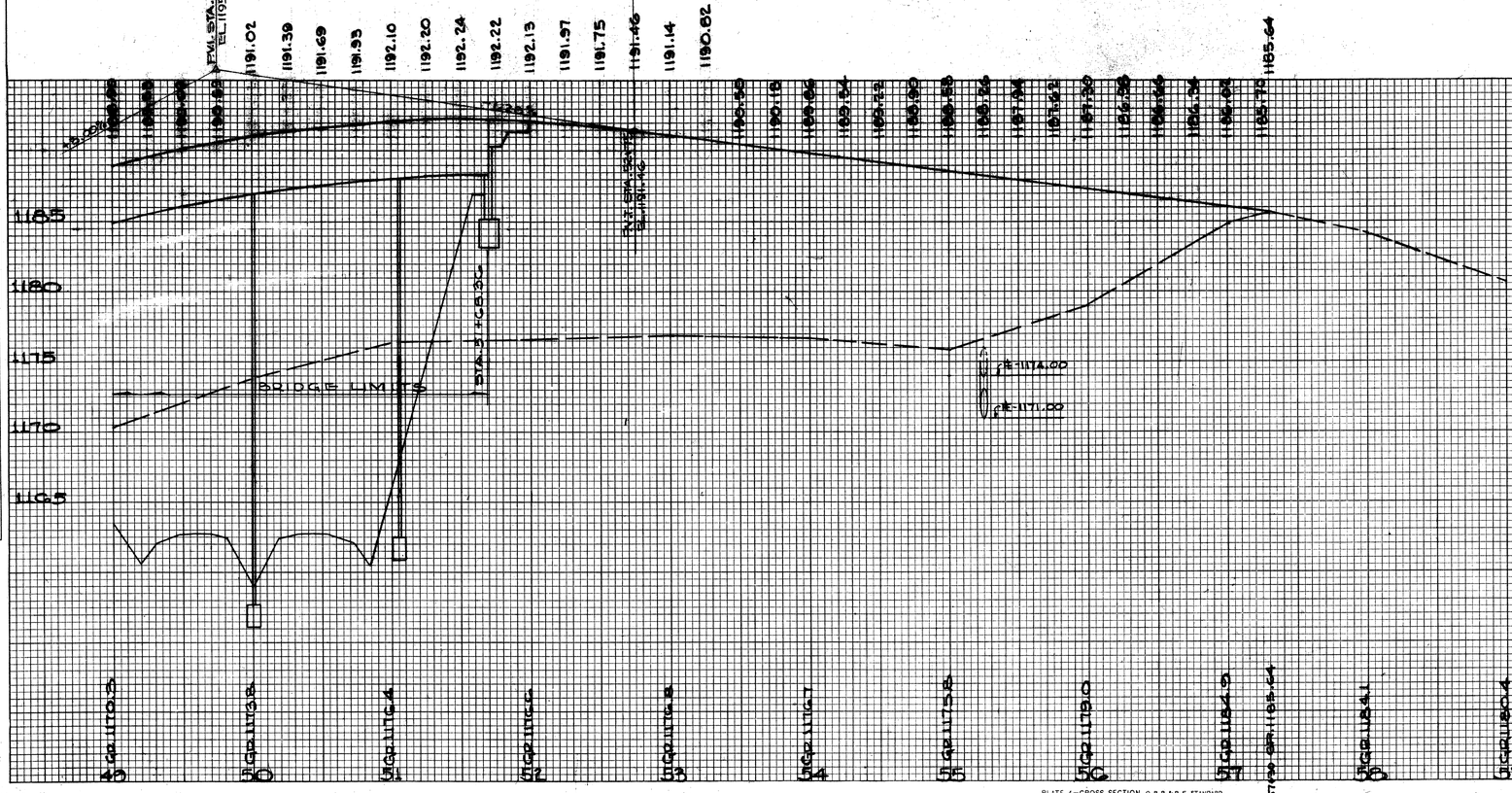


PLATE 4—CROSS SECTION O.P.R.&R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK

REVISED-3-31-54

T.H. 120 STA. 49+00 TO STA. 59+00
SHEET № 2 OF 2

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS CHECKED, NOTE BOOK, NO., DATE, BY

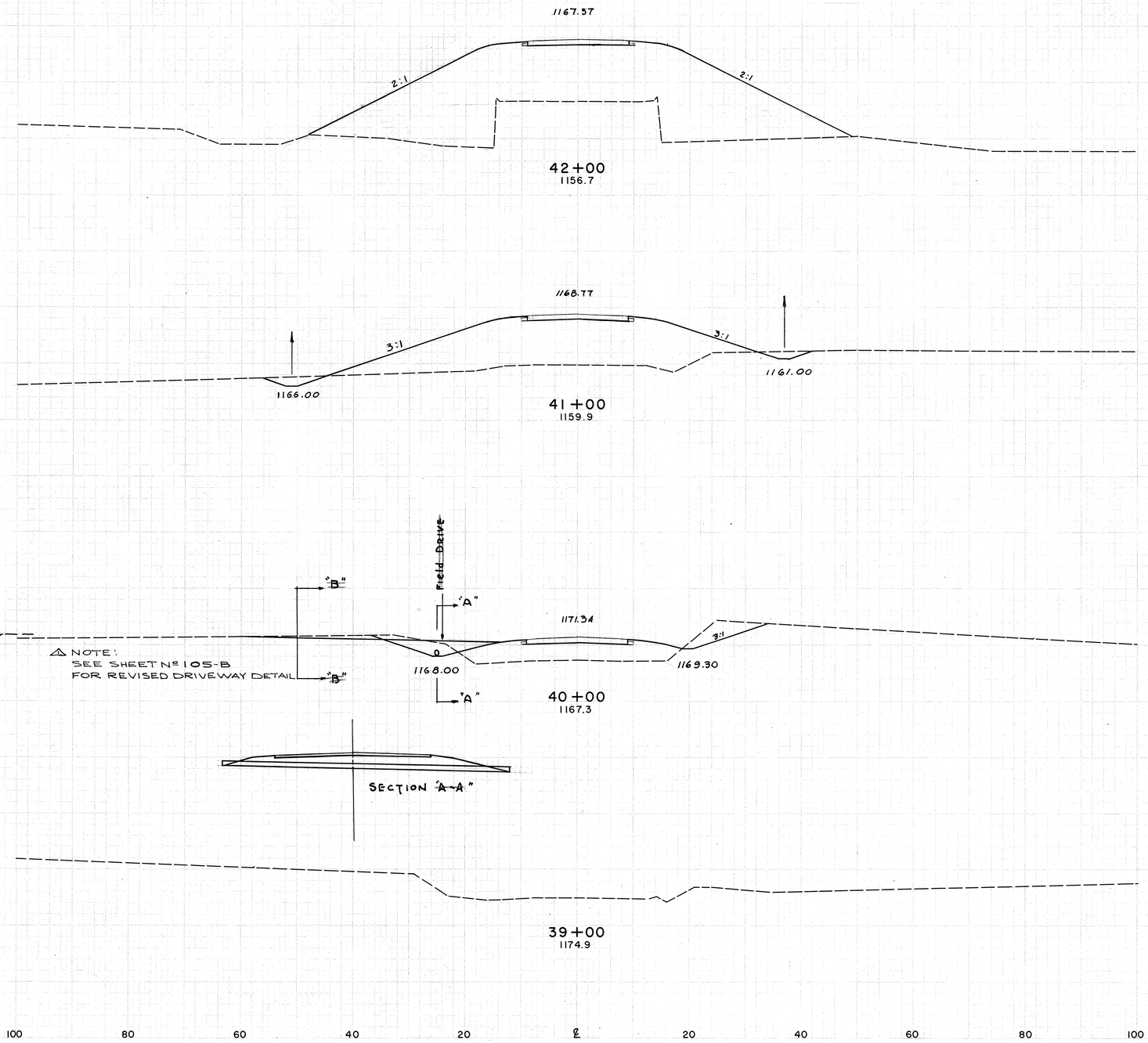
ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS CHECKED, NOTE BOOK, NO., DATE, BY

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

85
189

MED. -1- 10.09

SEEDING	
END WIDTH	SQ. YDS.



	END AREA		CU. YDS.	
	CUT	FILL	CUT	FILL
1150	0	1038		
			26	2770
1160	14	458		
			128	1070
1160	55	120		
			102	222
1170	0	0		

REVISED 3-31-58

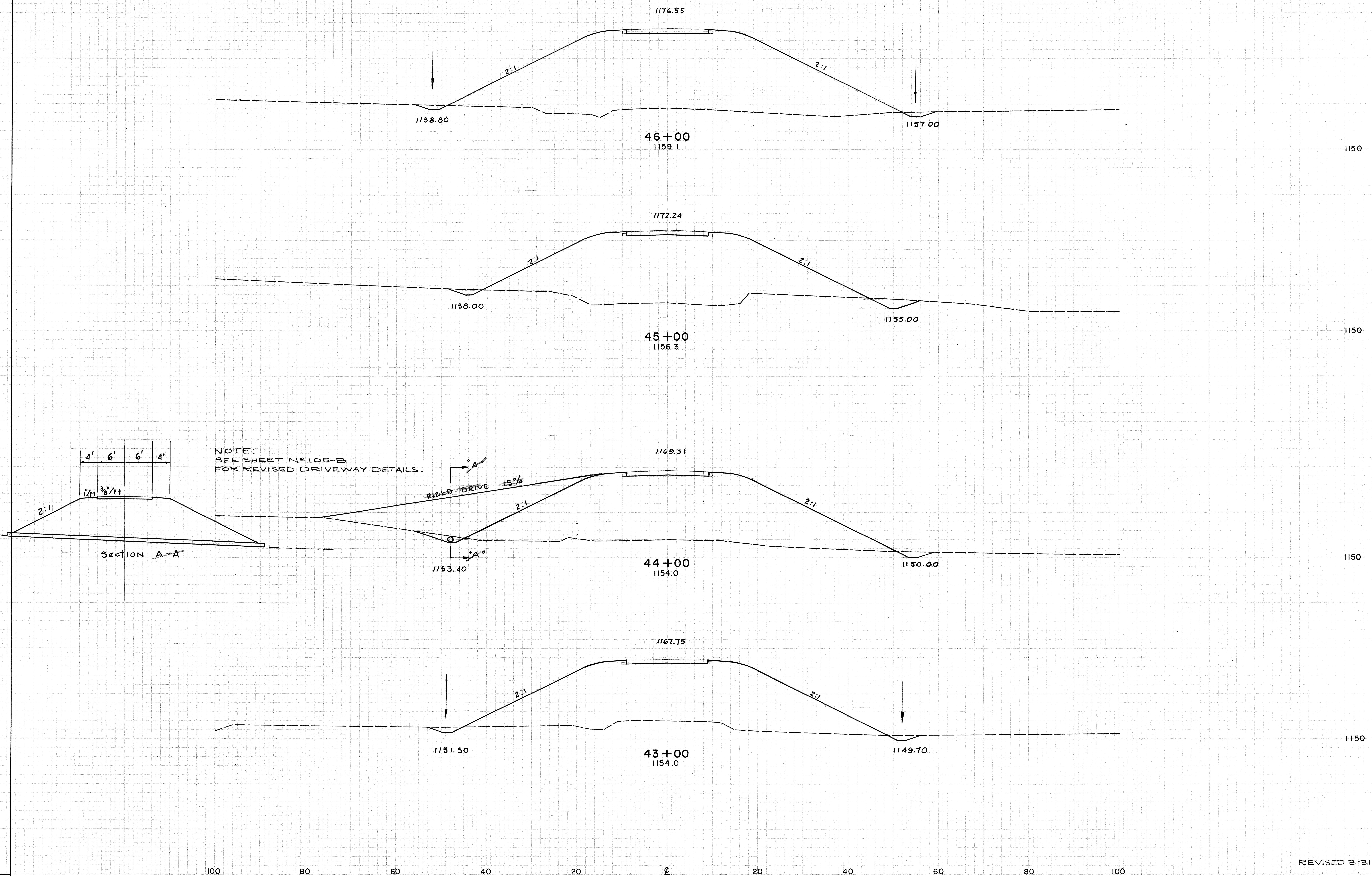
T. H. 120

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

86/189

MED. -1- 10.09

SEEDING	
END WIDTH	SQ. YDS.



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
10	1175		
		54	3750
19	850		
		61	3324
14	945		
		46	3350
11	864		
		20	3522

REVISED 3-31-58

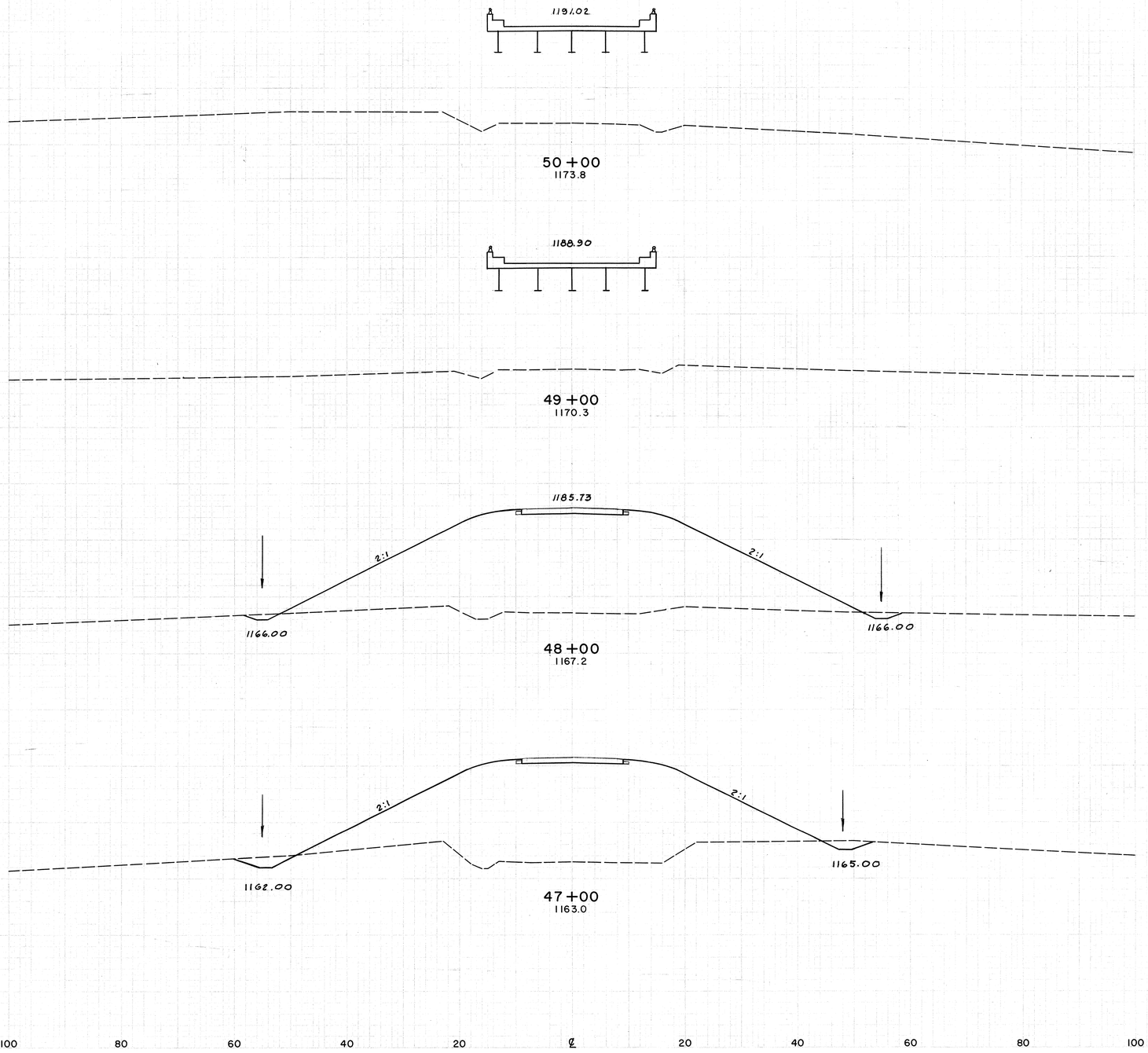
T.H. 120

SEEDING	
END WIDTH	SQ. YDS.

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

87
189

MED.-I-10.09



	END AREA		CU. YDS.	
	CUT	FILL	CUT	FILL
1170				
1170	0	0		
			17	2139
1170	9	1155		
			56	3965
1160	21	986		
			57	4000

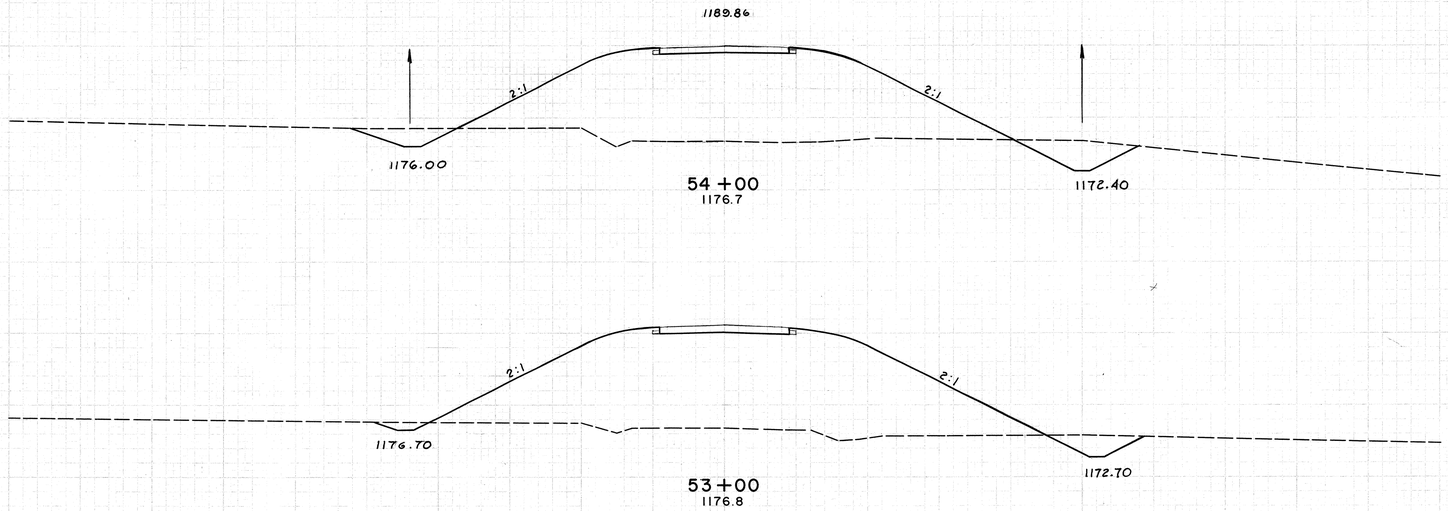
T. H. 120

SEEDING	
END WIDTH	SQ. YDS.

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

88
189

MED. -I-10.09



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
61	670		
		170	2735
31	807		
		63	3272
3	960		
		6	1778
0	0		

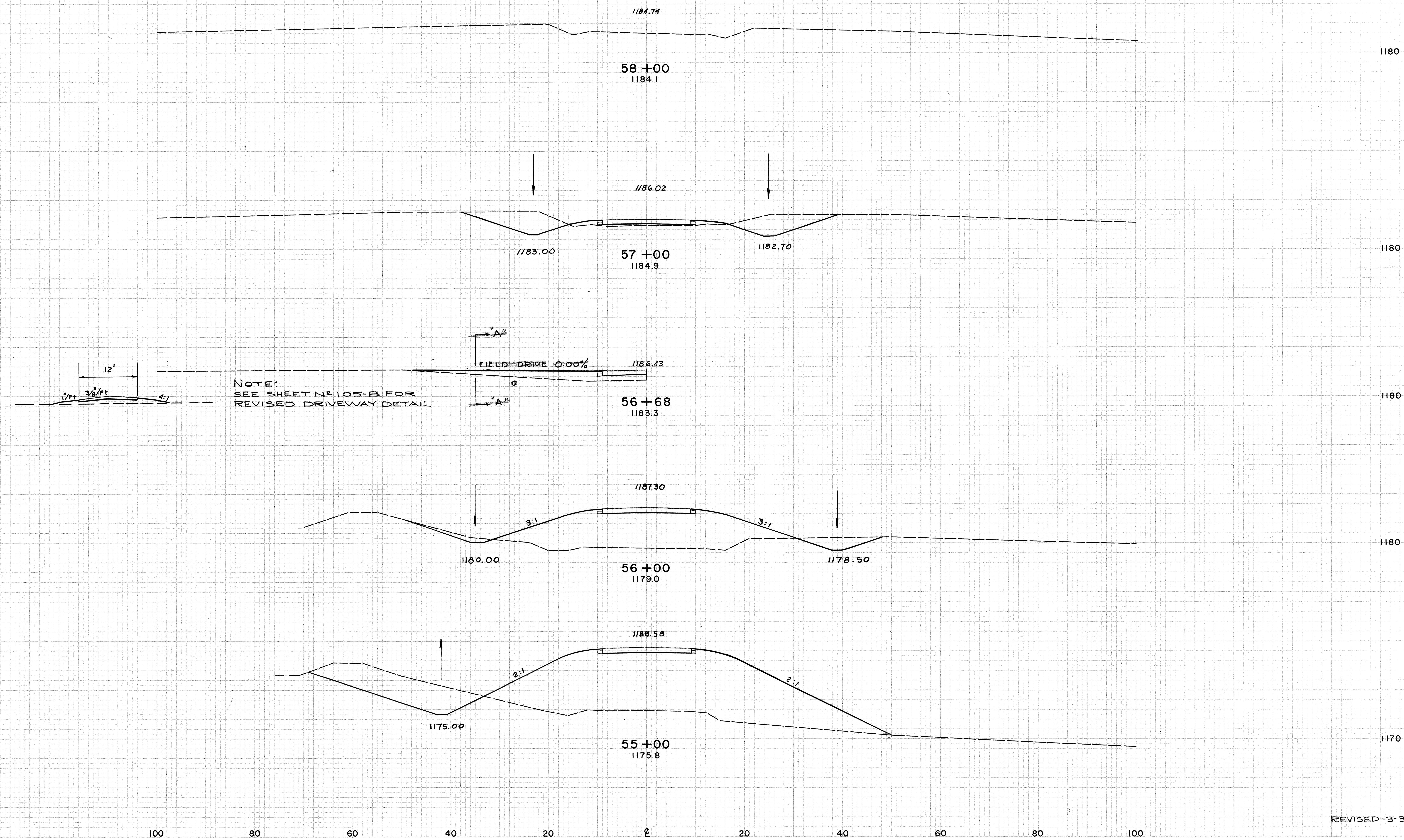
1170
1170
1170
1170

T.H. 120

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

MED. -1-10.09

SEEDING	
END WIDTH	SQ. YDS.



END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
0	0		
		193	28
104	15		
		254	667
33	345		
		357	1950
160	708		
		409	2552

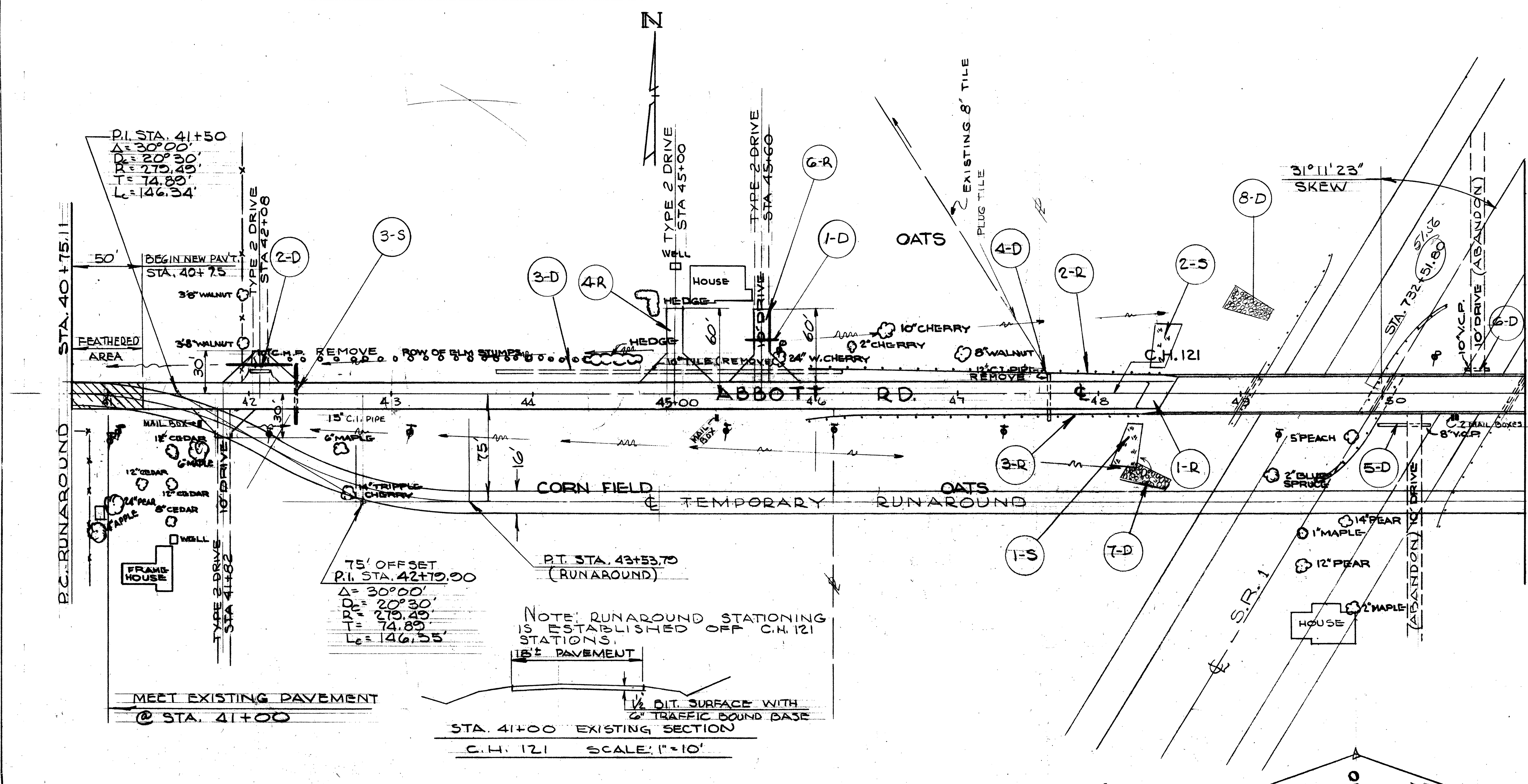
REVISED-3-31-58

T.H. 120

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

90
189

MED-1-10.09



ROADWAY							
REF. Nº	STATION FROM	STATION TO	SIDE ℄	I-15 TYPE 2-A GUARD RAIL STL. BEAM DEEP LIN. FT.	I-7 REINF. CONC. APPR. SLAB CLASS "C" SQ. YDS.	B-119 CRUSHED AGGR. BASE COURSE 8" CU. YDS.	
1-R	48+31	48+56	℄		65.6		
2-R	45+71	48+21	RT.	250			
3-R	45+75.5	48+38	LT.	262.5			
4-R	45+00	—	LT.			25	
5-R	41+82	—	RT.			16	
6-R	45+60	—	RT.			23	

DRAINAGE								
REF. Nº	STATION FROM	STATION TO	SIDE ℄	E-12 PIPE REMOVAL 15" & UNDER LIN. FT.	I-10 DUMPED ROCK CU. YDS.	I-1 PIPE FOR DRIVEWYS 12" M-6.4(a) LIN. FT.		
1-D	45+60	—	LT.			~~42~~ 40		
2-D	42+08	—	LT.	14		~~32~~ 48		
3-D	43+75	46+20	LT.	245				
4-D	47+65	—	℄	32				
5-D	50+00	50+38	RT.	38				
6-D	50+60	50+76	LT.	16				
7-D	48+25	—	RT.		6			
8-D	49+00	—	LT		6			

STRUCTURE				
REF. Nº	STATION	SIDE ℄	L-10 SODDING BERM PROTECT. SOLID SQ. YDS.	SEE DRWG Nº
1-S	48+25	RT.	40	
2-S	48+40	LT.	40	
3-S	42+28	℄	—	132

BRIDGE Nº MED-1-1220

TYPE: CONTINUOUS STEEL BEAM WITH REINFORCED CONCRETE DECK & SUBSTRUCTURE.
SPAN: 57' - 95.33' - 95.33' - 57' C/C BRGS.
ROADWAY: 24' F/F 2'-0" SAFETY CURBS.
LOAD FREQUENCY: CF 130
SKEW: 31°-11'-23" LFWD.
WEARING SURFACE: ¾" MONOLITHIC
APPROACH SLAB: 25' LONG
ALIGNMENT: STRAIGHT
SUPERELEVATION: NONE

REVISED 3-21-58

PLATE 4—CROSS SECTION O.P.R. & R.E. STANDARD
KEUFFEL & ESSER CO. NEW YORK

FINAL SURVEY — SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED — NOTE BOOK / NO. — BY — DATE

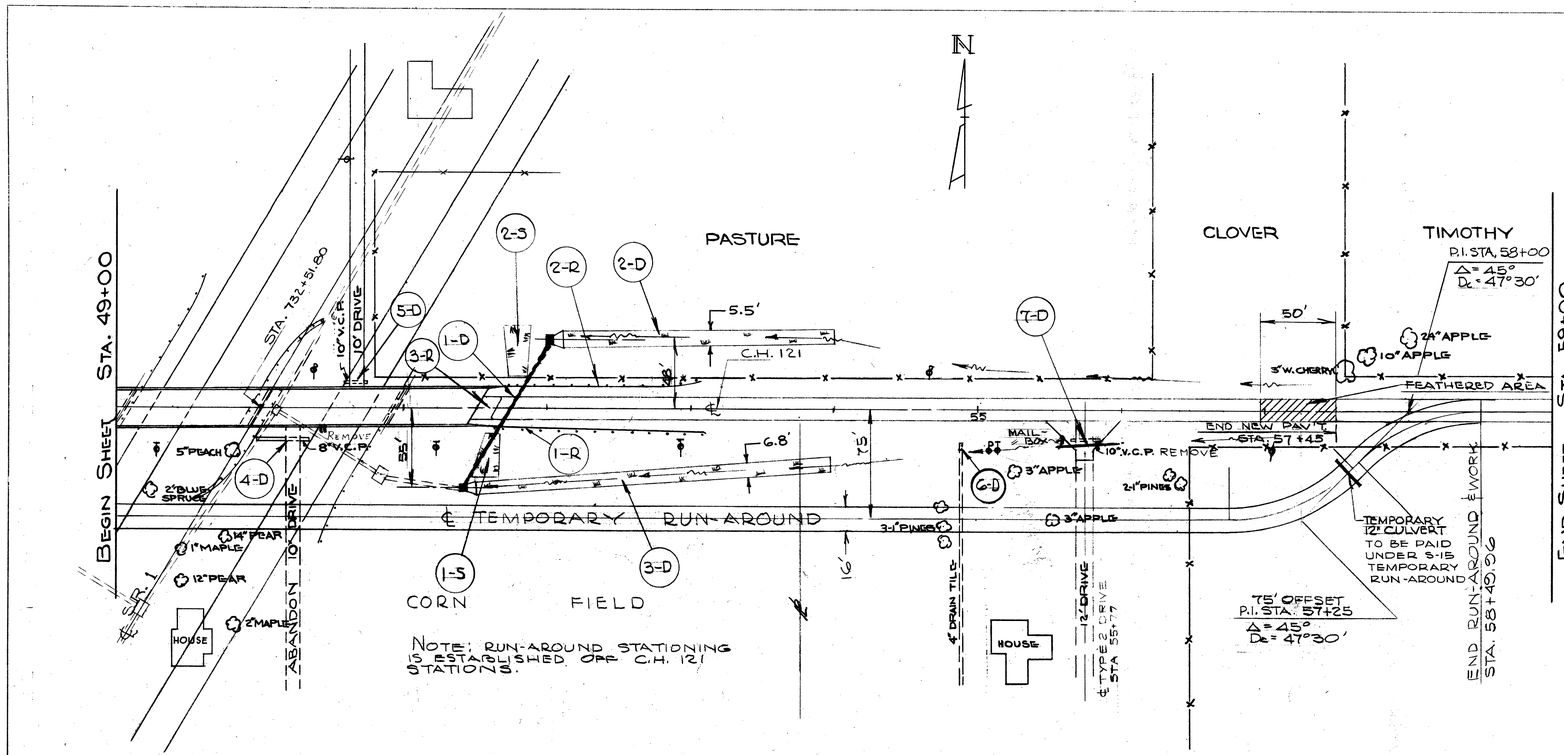
ORIGINAL SURVEY — SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED — NOTE BOOK / NO. — BY — DATE

C.H. 121 FROM STA. 41+00 TO STA. 51+00

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

MED-1-10.09

91
189



NOTE: RUN-AROUND STATIONING IS ESTABLISHED OFF C.H. 121 STATIONS.

DRAINAGE

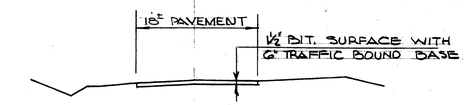
REF. Nº	STATION FROM	STATION TO	SIDE ℄	I-2-15" CLASS 'A' STORM SEWER UNDER PAV'T OR APPR'S. M-6.5(a) M-6.5½ LIN. FT.	I-8 CATCH BASIN #2-2A INLET EACH	I-10 SODDING SIDE DITCH SOLID SQ. YDS.	E-12 PIPE REMOVAL 15"& UNDER LIN. FT.	I-1 PIPE FOR DRIVEWAY 12" LIN. FT.	I-3 ROADWAY DRAINAGE M-6.4(a) PIPE OUTLETS LIN. FT.
1-D	51+75	–	R&L	116					
2-D	52+00	54+00	LT		1	182			
3-D	51+42	54+00	RT		1	196			
4-D	50+00	50+35	RT				35		
5-D	50+60	50+75	LT				15		
6-D	54+00	–	RT						
7-D	55+65	55+85	RT				20	2846	10

ROADWAY

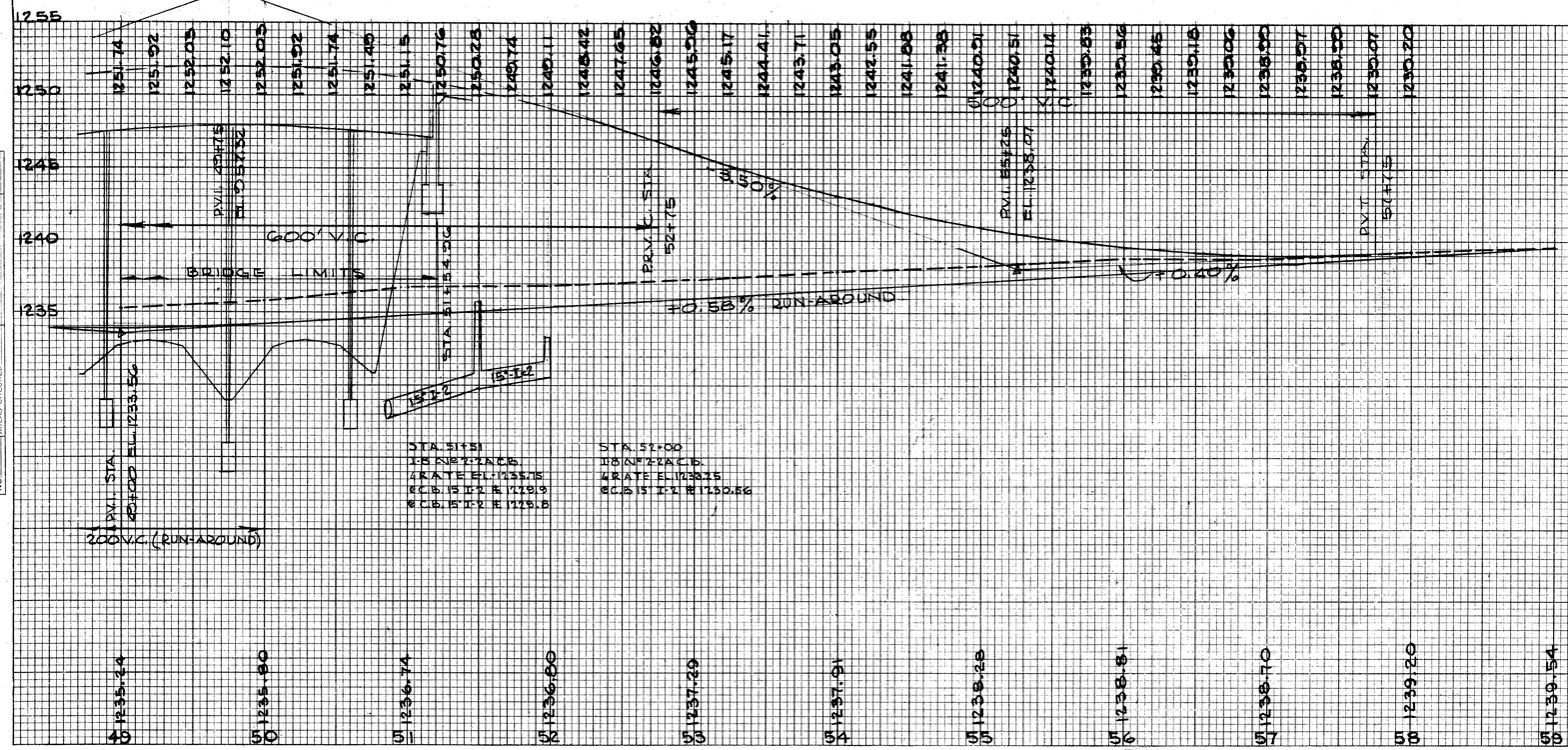
REF. Nº	STATION FROM	STATION TO	SIDE ℄	I-15 TYPE 2-A GUARD RAIL STL. BEAM DEEP LIN. FT.	I-7 REINF. CONC. APPROACH SLAB CLASS 'C' SQ. YDS.
1-R	51+65	53+15	RT	150	
2-R	51+82	53+195	LT	137.5	
3-R	51+50	51+75	℄		65.6

STRUCTURE

REF. Nº	STATION	SIDE ℄	I-10 SODDING BEHIND PROTECTION SOLID SQ. YDS.
1-S	51+60	RT.	27
2-S	51+80	LT.	27



STA. 58+00 EXISTING SECTION
C.H. 121 SCALE: 1"=10'



REVISED - 3-31-56

PLATE 4—CROSS SECTION © P.R.R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK

C.H. 121 FROM STA. 49+00 TO STA. 59+00

FINAL SURVEY: SURVEYED, PLOTTED, TEMPLATE, AREAS CHECKED, NOTE BOOK, NO.

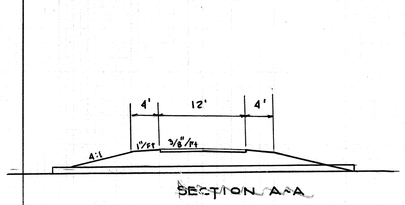
ORIGINAL SURVEY: SURVEYED, PLOTTED, TEMPLATE, AREAS CHECKED, NOTE BOOK, NO., DATE, BY

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

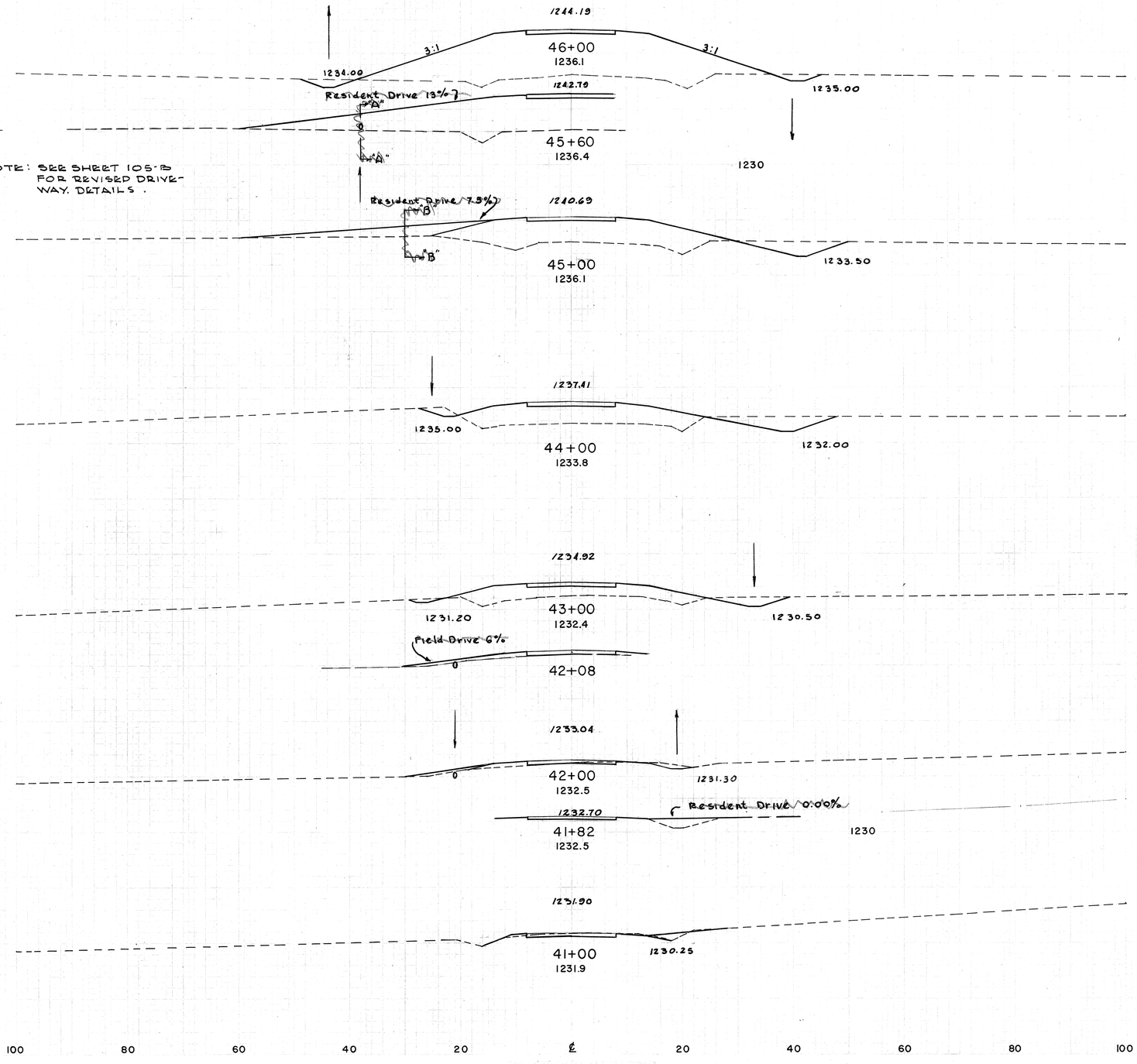
92
189

MED-I-10.09

SEEDING	
END WIDTH	SQ. YDS.



NOTE: SEE SHEET 105-B FOR REVISED DRIVEWAY DETAILS.



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
1230 15	440		
		76	1167
1230 26	190		
		115	602
1230 36	135		
		96	407
1230 16	85		
		37	176
1230 4	10		
		22	
1230 8	5		
		15	

REVISED:
31 MAR. '58

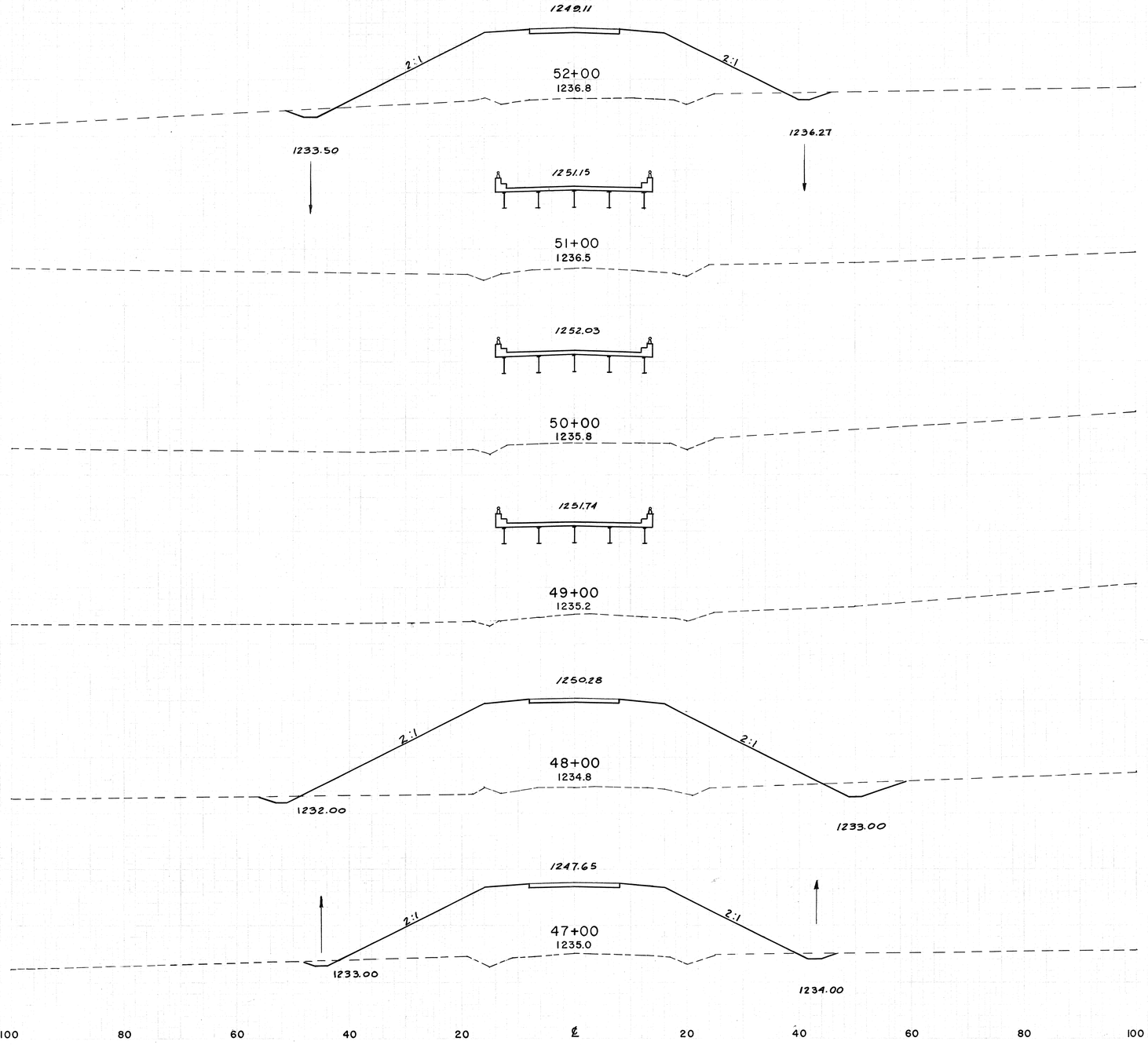
C.H. 121

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

93
189

MED-1-10.09

SEEDING	
END WIDTH	SQ. YDS.



	END AREA		CU. YDS.	
	CUT	FILL	CUT	FILL
1240	15	672		
			28	1244
1240	0	0		
1240				
1240	0	0		
			50	1763
1240	27	952		
			65	3(
1240	8	687		
			43	87

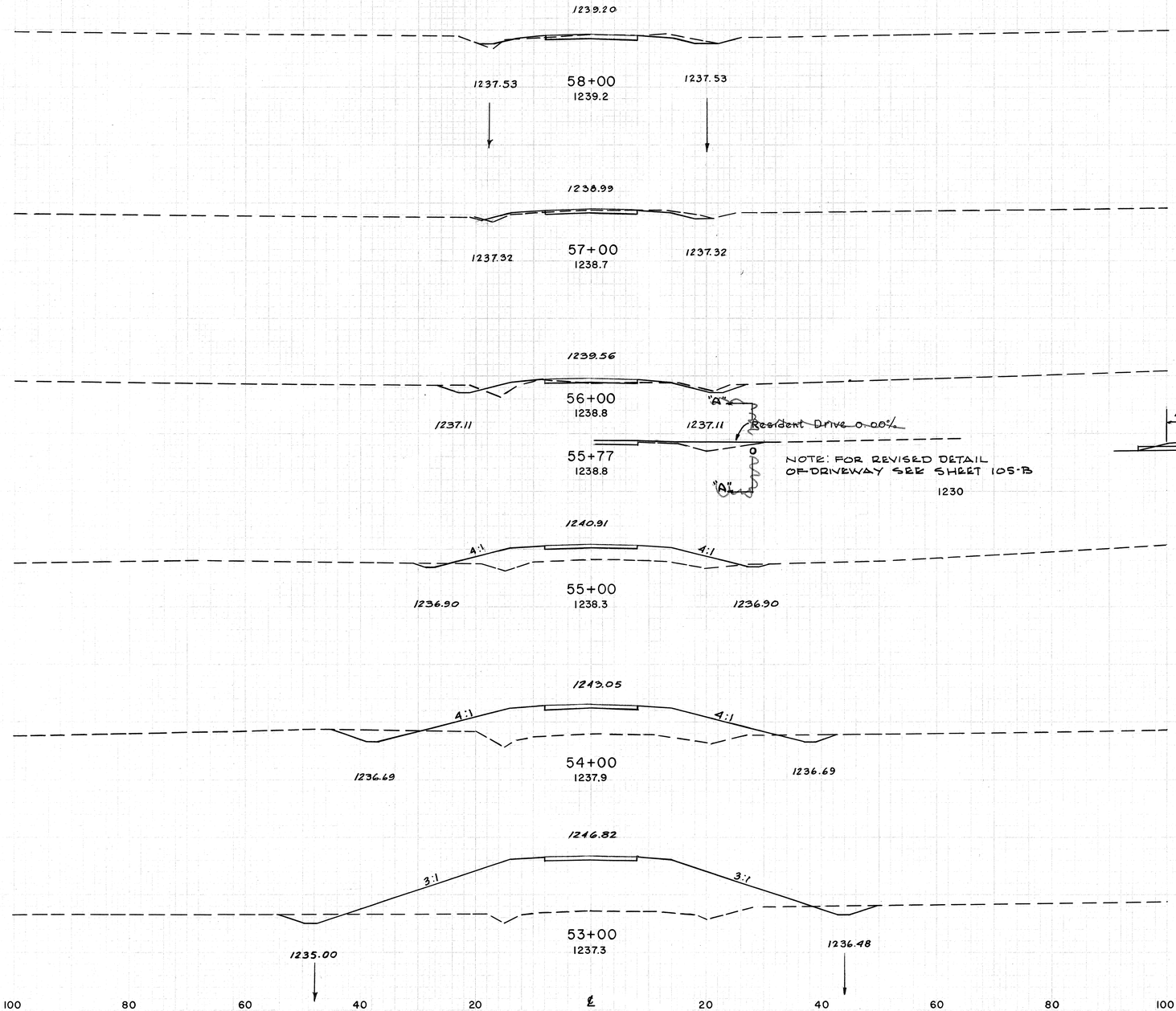
C. H. 121

SEEDING	
END WIDTH	SQ. YDS

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

94
189

MED-I-10.09



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		24	6
13	3		
		39	26
8	11		
		37	57
12	20		
		31	241
5	110		
		56	620
25	225		
		89	1346
23	502		
		70	2174

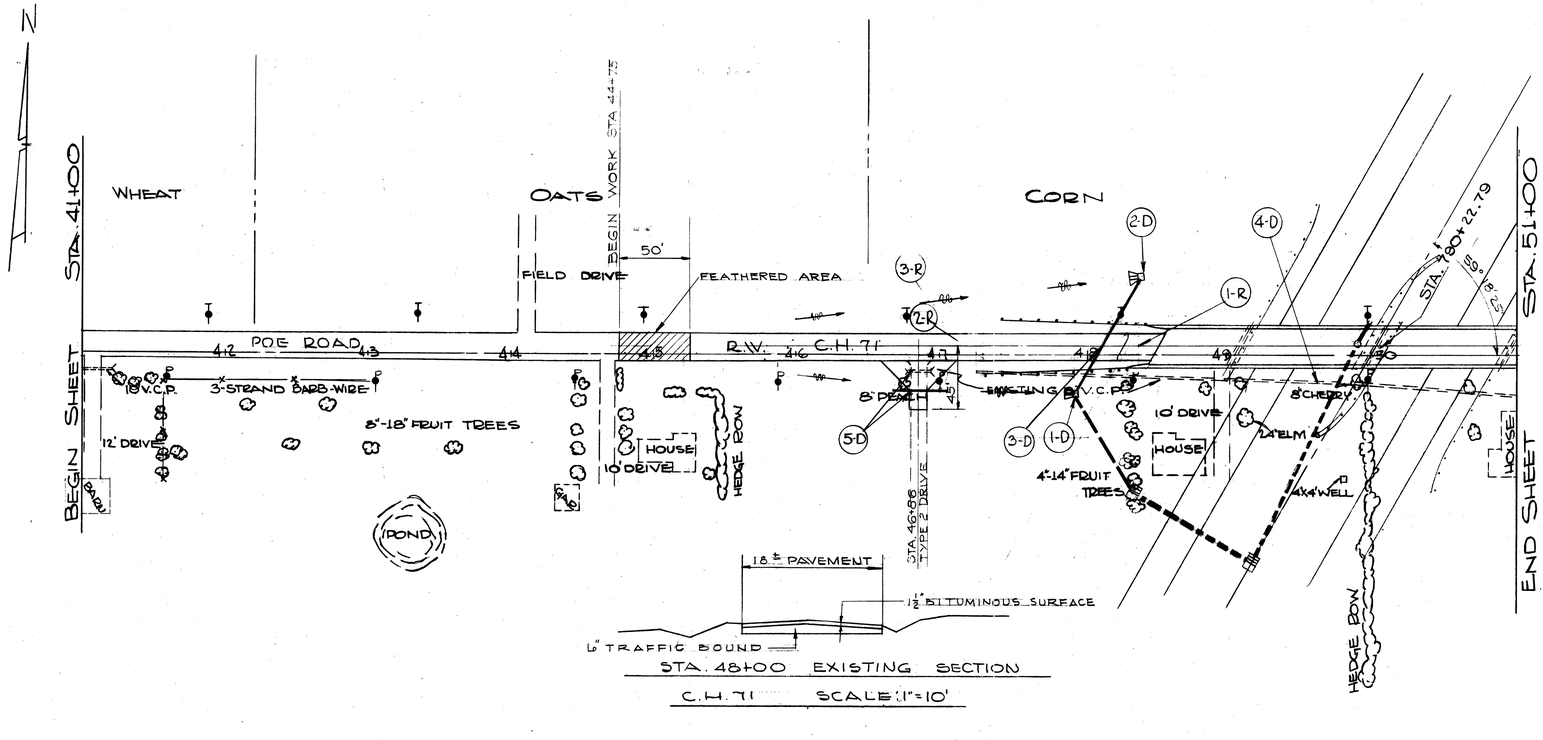
REVISED
31 MAR. '58

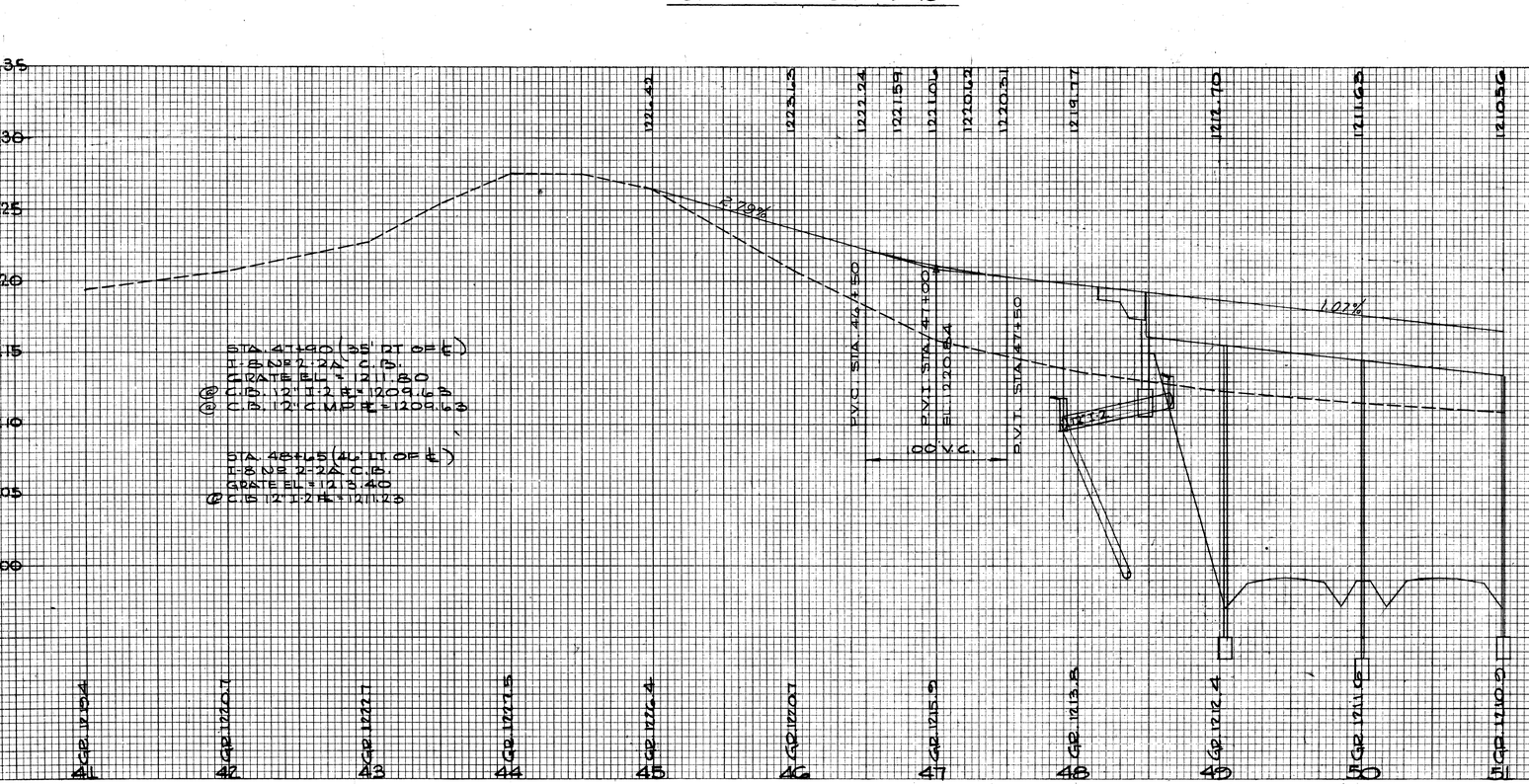
C.H. 121

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

MED-1-10.09

05
189





STA. 48+00 EXISTING SECTION
C.H. 71 SCALE: 1"=10'

DRAINAGE

REF.	STATION		SIDE	I-2 CLASS "A" STORM SEWER UNDER PAV'T. OR APPROACH M-6.5(D)-M-6.5(E). 12" PIPE	I-8 CATCH BASIN 2-2A INLET	E-12 REMOVE EXIST. PIPE 15" & UNDER	I-L PIPE FOR DRIVES M-6.4a 12"
US	FROM	TO	℄	LIN. FT.	EACH	LIN. FT.	LIN. FT.
1-D	47+90	—	RT.		1		
2-D	48+45	—	LT.		1		
3-D	48+10	—	R&L	85			
4-D	47+30	48+80	RT.			150	40
5-D	46+80	47+15	RT.			16	35

ROADWAY

REF.	STATION		SIDE	I-7 REINF. CONC. APPR. SLAB CLASS "C"	I-15 2-A GUARD RAIL STEEL BEAM	B-19 CRUSHED AGGR. BASE COURSE 6"
US	FROM	TO	℄	SQ. YD.	LIN. FT.	CU. YD.
1-R	48+25	48+50	℄	75.2		
2-R	47+30	48+30	RT.		100	
3-R	47+43	48+43	LT.		100	
4-R	46+60	47+15	RT.			12

BRIDGE No. MED-1-1482

TYPE — — CONTINOUS STEEL GIRDER WITH REINFORCED CONC. DECK & SUBSTRUCTURE
SPANS — — 57'-95'-95'-57'
ROADWAY — — 24' F/F OF SAFETY CURBS
LOAD FREQUENCY — — E.F. 30
SKEW — — 30° 41' 35"
WEARING SURFACE — — ½" MONOLITHIC
APPROACH SLAB — — 25' LONG
ALIGNMENT — — STRAIGHT
SUPERELEVATION — — NONE

FINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED — NOTE BOOK — NO. — BY — DATE

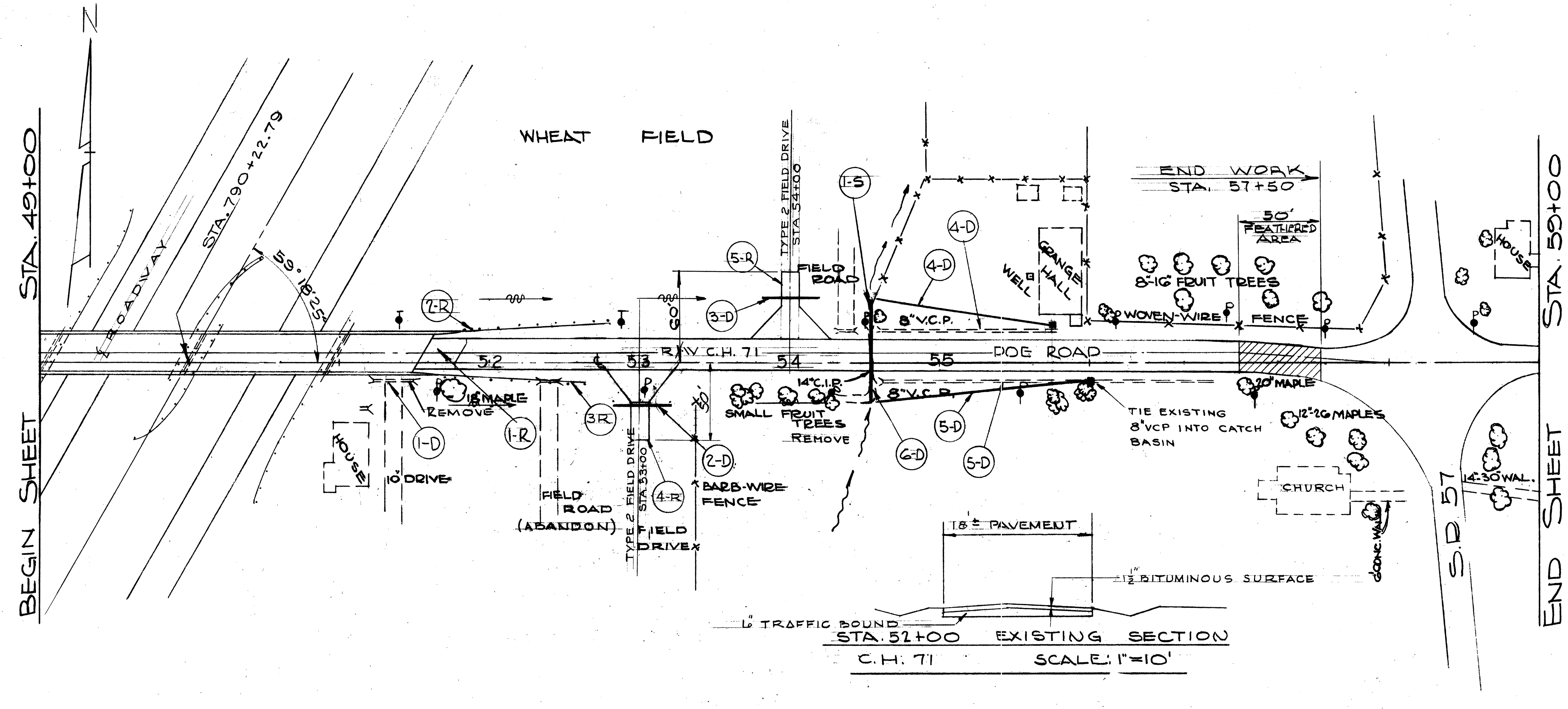
ORIGINAL SURVEY — SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED — NOTE BOOK — NO. — BY — DATE

REVISED:
31 MAR. '58

PLATE 4—CROSS SECTION © P.R.R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK

98.28

C.H. 71 (POE ROAD) STA. 41+00 TO STA. 51+00
SHEET NO. 1 OF 2



DRAINAGE								
				E-12	I-1	I-3	I-8	
REF. No	STATION FROM	STATION TO	SIDE ℄	PIPE REMOVAL 15" & UNDER LIN. FT.	PIPE FOR DRIVEWAYS 12" M-64 LIN. FT.	ROADWAY DRAINAGE 12" PIPE L. FT.	CATCH BASIN TYPE 2-2B EACH	
1-D	51+22	51+48	RT.	26				
2-D	53+00	-	RT.		~~35~~	40		
3-D	54+00	-	LT		~~35~~	44		
4-D	54+55	55+80	LT	120		130	1	
5-D	54+55	56+00	RT	145		145	1	
6-D	54+55	-	R&L	30				

ROADWAY							
				I-7	I-15	B119	
REF. No	STATION FROM	STATION TO	SIDE ℄	REINF. CONC. APPR. SLAB CLASS "C" SQ. YD.	2-A GUARD RAIL STEEL BEAM LIN. FT.	CRUSHED AGGREG'T BASE COURSE 6" CU. YDS.	
1-R	51+52	51+77	℄	75.2			
2-R	51+80	52+80	LT.		100		
3-R	51+65	—	RT.		100		
4-R	53+00	—	RT.			13	
5-R	54+00	—	LT.			13	

STRUCTURE							
				S-27	E-2	S-1	
REF. No	STATION FROM	STATION TO	SIDE ℄	15" RDWAY CULVERT LIN. FT.	EXCAV. FOR STRUCT. CU. YDS.	CONC. FOR STRUCT. CLASS "E" PC-4 ENDW'L	FOR ELV. DETAIL SEE SHEET No.
1-S	54+55	——	R&L	66	6	CU. YD. 0.52	97

1198.50

FED. RD.	STATE	PROJECT		97 / 189
2	OHIO			

END AREA		CU. YDS	
CUT	FILL	CUT	FILL
0	0		
		37	432
20	233		
		52	789
8	193		
		15	498
0	76		
		0	141
0			

60 40 20 ℄ SURVEY 20 40 60

1216.56

1210

51+00
1210.9

1212.43

1210

50+00
1211.6

1208.70

1210

49+00
1212.4

1218.77

3:1 3:1

1210

48+00
1213.8

1210.00 1212.60

1221.06

3:1 3:1

1210

47+00
1215.9

1215.00 1215.60

8.7%

"A" "A"

FIELD DRIVE - STA. 46+86

1223.63

1220

46+00
1220.7

1222.00 1221.60

1220

45+00
1226.4

1220

44+00

1220

60 40 20 ℄ SURVEY 20 40 60

4' 12' 4'

3:1 1"/FT 1/4"/FT 3:1

12" I-I

SECTION A-A. END AREA = 44
CY = 45

3:1 3:1

SECTION B-B END AREA = 74
CY = 55

NOTE: SEE SHEET 105-A FOR REVISED DRIVEWAY DETAILS.

NOTE: DRIVE QUANTITIES ARE CALCULATED ON THE SECTION SHOWN. ZERO SECTIONS FOR DRIVES OCCUR AT THE R/W LINE AND AT EDGE OF THE ROAD SHOULDER

60 40 20 ℄ SURVEY 20 40

1210

58+00
1210.1

1210.27

1210

57+00
1210.1

1211.21

1210

56+00
1208.4

1212.20

3:1 3:1

1210

55+00
1208.3

34' 32'

3:1 3:1

15" S-27

0.83% SLOPE

PC-4 ENDWALL
INV. 1205.10

54-55
1208.4

PC-4 ENDWALL
INV. 1205.67

FOR CULVERT QUANTITIES SEE SHEET 96

1213.35

3:1 3:1

1210

54+00
1208.5

B B

1206.00

1214.42

3:1 3:1

1210

53+00
1208.5

C C

1207.00

DRIVE END AREA = 62
CY = 46

SECTION C-C

1215.49

3:1 3:1

1210

52+00
1204.6

1208.00

℄ SURVEY

REVISED 3-31-58

END AREA		CU. YDS	
CUT	FILL	CUT	FILL
		0	100
	54		
		0	335
	127		
	233		33 613
18	204		
		52	778
10	216		
		35	804
9	218		
		17	404

60 40 20 ℄ SURVEY 20 40 60

CH 71

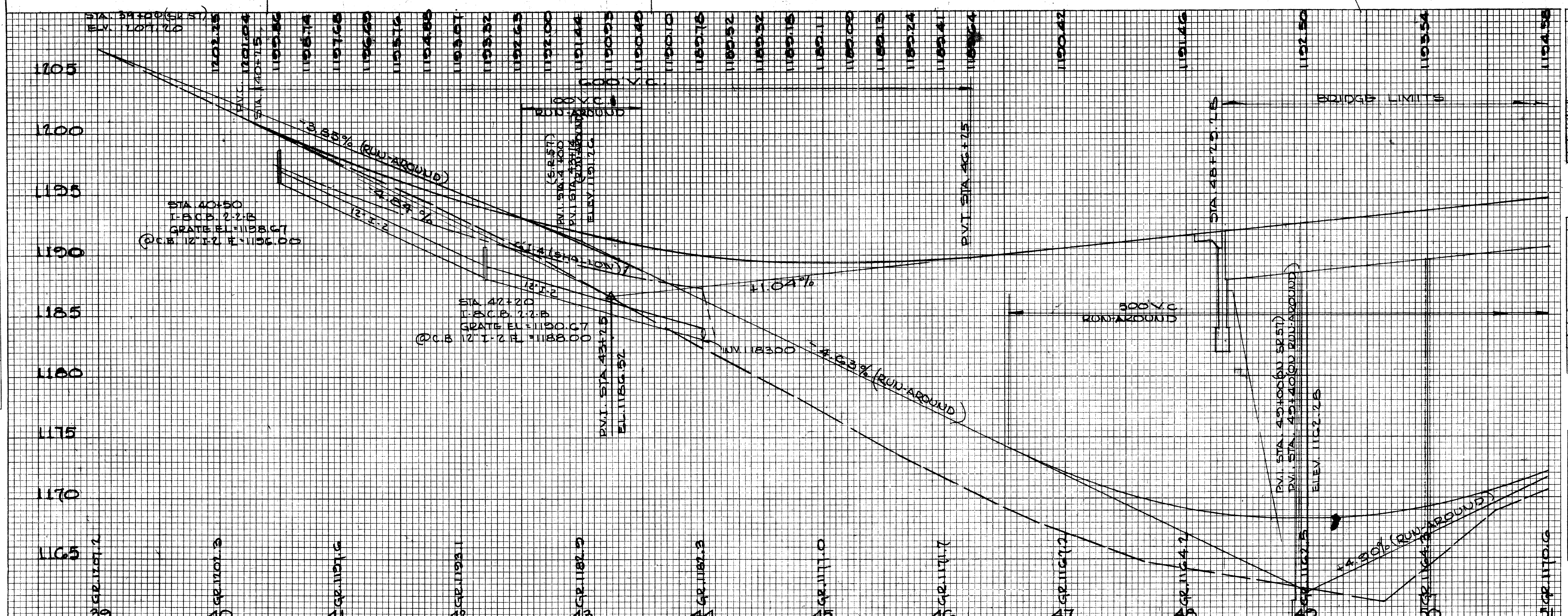
FED. RD.	STATE	PROJECT
2	OHIO	I-1105 (25)

28/189

MED-1-10.09

520

RUN-AROUND SECTION AT STA. 44+50
SCALE: 1" = 40'
60" C.M.P. @ 1.92%
STATION 40+00 EXISTING SECTION
S.R. 57 SCALE: 1" = 10'
20'± PAVEMENT
1¼" T-35
2" ROAD MIX
1" DRAG
½" SEAL
6" TRAFFIC BOUND
RUN-AROUND STA. 49+50
60" C.M.P. x 106' LG. TEMPORARY CULVERT TO BE PAID FOR UNDER S-15, TEMPORARY RUN-AROUND
CURVE DATA - S.R. 57
Δ = 36° 04' 20"
Dc = 03° 00' 00"
Ls = 350
Rc = 1909.8592'
θs = 05° 15' 00"
Δc = 25° 34' 20"
Lc = 852.41'
Ts = 797.7036'
Es = 101.5080'
Ee = 42.5628'
L.T. = 233.44'
S.T. = 116.76'
~ BARNETT SPIRAL ~
HAY FIELD
MEADOW
P.I. STA. 41+50
Δ = 22° 30'
Dc = 15° 0'
P.I. STA. 51+00
Δ = 41° 30'
Dc = 5° 0'
SHOULDER TRANS.
EXIST. TO PROPOSED
BEGIN SHEET & WORK STA. 39+25
RUN-AROUND
S.R. 57
REMOVE EXISTING PIPE
FEATHERED AREA
PAVEMENT BEGINS STA. 40+25
P.I. STA. 40+00
Δ = 26° 30'
Dc = 15° 0'
WHEAT FIELD
CINDER DR.
BARN
GAR.
TYPE 2 DRIVE STA. 40+82
TYPE 2 DRIVE STA. 42+50
2 ST. FRAME
STA. 44+00 BEND
DUMPED ROCK 2' x 2' x 3' DEEP
T.S. STA. 43+80.91
GARDEN
LOCUST GROVE
APPLE ORCHARD
S.C. STA. 47+30.91
PASTURE
EXIST. BRIDGE
END SHEET STA. 51+00
STA. 40+75
BEGIN NEW PAV'T. & SHOULDERS
10' SHOULDER
FEATHERED AREA
EXIST. 20' PAV'T.
4' STABIL. SHOULDER
S.R. 57
VOID
TRANSITION FROM EXIST. 20' TO 24' PAV'T.
EXISTING STRUCTURE
BRIDGE NO. MED-57-06.57
TYPE -- CONCRETE BEAM SLAB EXTENSION
SPAN -- 18 FEET
ROADWAY -- 31 FEET
HEIGHT -- 8 FEET 10 INCHES
SKEW -- NONE
REMOVE AS PER S-24
BRIDGE No MED-1-1354
TYPE CONTINUOUS STEEL BEAM WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE
SPANS 63'-105'-105'-73.5' C/C BRGS.
ROADWAY 30' F/F, 2'-0" SAFETY CURBS.
LOAD FREQUENCY C.F. 400
SKEW 37° 17' 22" RF FROM SUBTANGENT
WEARING SURFACE 1" MONOLITHIC
APPROACH SLABS 25' LONG
ALIGNMENT 03° 00' 00" CURVE RIGHT
SUPERELEVATION 0.071 FT/FT.



DRAINAGE

REF No	STATION FROM	STATION TO	SIDE ℄	I-3 ROADWAY DRAINAGE UNDER PAV'T. OR APPR. 12" PIPE LIN. FT.	I-4 UNDERDRAIN LIN. FT. 6" PIPE	I-4 UNDERDRAIN LIN. FT. M-6.4(a) 8" PIPE OUTLET	I-5 PIPE SPECIAL - EACH 6" 60° BEND	E-12 PIPE REMOVAL 15" & UNDER	L-10 SODDING SIDE DITCH SOLID SQ. YD.	I-10 DUMPED ROCK CHANNEL PROTECT. CU. YD.	I-8 No 2-2B CATCH BASIN EACH
1-D	40+50	44+00	RT.	342	358	10					2
2-D	40+25	46+00	LT.						715	7	
3-D	44+20	48+25	RT.						368		
4-D	40+00	—	RT.				1				
5-D	40+75	45+50						475			

ROADWAY

REF No	STATION FROM	STATION TO	SIDE ℄	I-15 (2-A) GUARD RAIL STEEL BEAM LIN. FT.	I-7 REINF. CONC. CONC. APPR. SLAB CLASS "C" SQ. YD.	B-119 CRUSHED AGGREGATE BASE COURSE 8" DEPTH CU. YD. DRIVES
1-R	44+67	48+17	R	350		
2-R	48+07	48+32	℄		83.7	
3-R	40+82	—	RT.			15
4-R	42+50	—	RT.			15
5-R	43+66.5	48+04	L	437.5		

STRUCTURE

REF No	STATION FROM	STATION TO	SIDE ℄	L-10 SODDING BERM PROTECTION SOLID SQ. YD.	FOR QUANT. SEE SHEET No	STRUCT. No
1-S	48+05	—	LT.	102		
2-S	48+20	—	RT.	102		

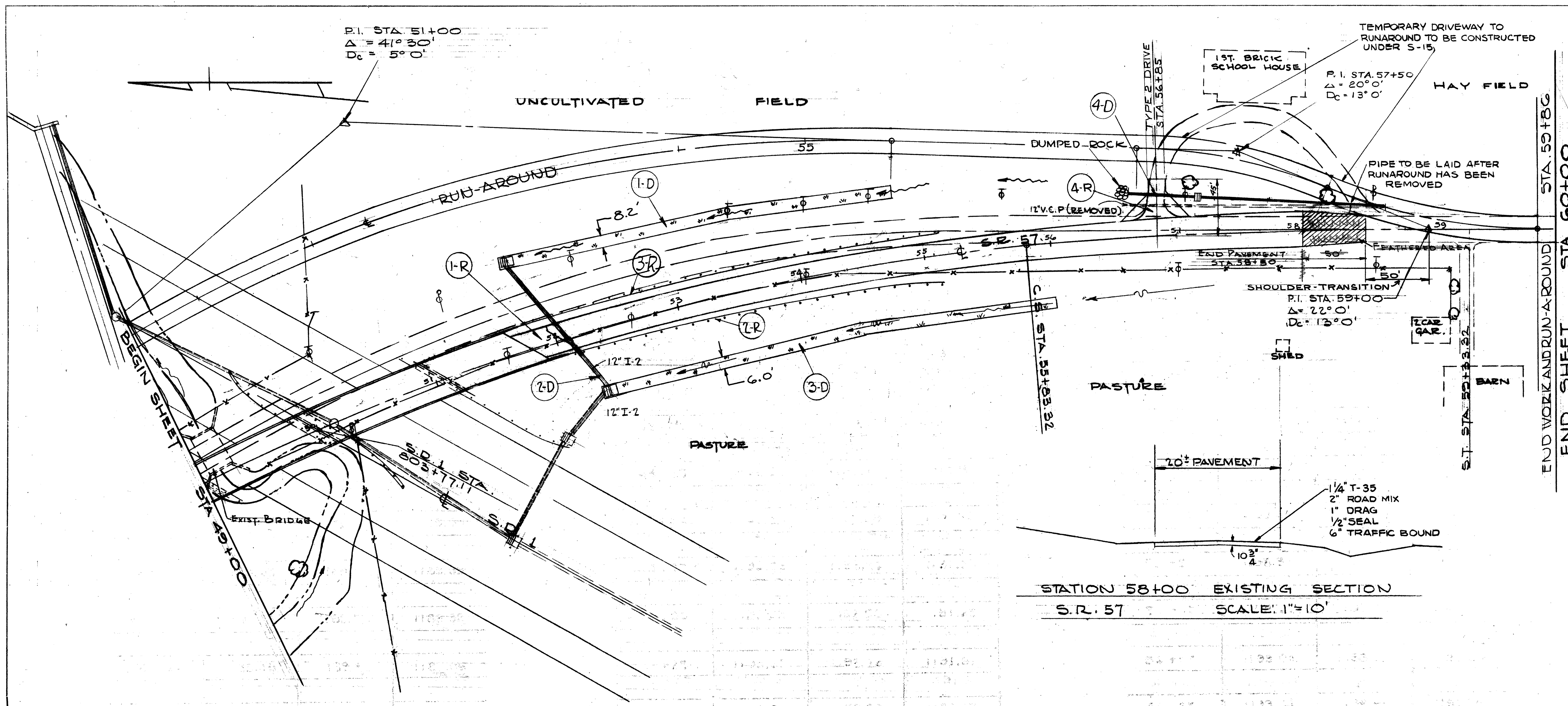
REVISED: 31 MAR. '58

S.R. 57 STA. 39+25 TO STA. 51+00
SHEET No 1 OF 2

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

99 / 189

MED-1-10.09



CURVE DATA - S.R. 57

Δ = 36° 04' 20"
Dc = 03° 00' 00"
Ls = 350'
Rc = 1909.8592'
θs = 05° 15' 00"
Δc = 25° 34' 20"
Lc = 852.41'
Ts = 797.7036'
Es = 101.5080'
Ec = 42.5628'
LT. = 233.44'
ST. = 116.76'
~ BARNETT SPIRAL ~

DRAINAGE

REF. Nº	STATION FROM	STATION TO	SIDE ℄	I-2 CLASS "A" STORM SEWER LIN. FT. UNDER PAV'T. OR APPROACH 12" PIPE M6.56 M6.86	I-8 CATCH BASIN 2-2A EACH	L-10 SODDING SIDE DITCH SOLID SQ. YD.	I-10 DUMPED ROCK CHANNEL PROTECT. CU. YD.		E-12 PIPE REMOVAL 15" & UNDER LIN FT.	I-3 R'DW'Y. DRAIN 12" PIPE UNDER PAV'T. OR APPR. LIN. FT.
1-D	51+80	55+00	LT.		1	291				
2-D	52+05	—	R&L	120						
3-D	52+30	56+00	RT		1	240				
4-D	56+65	58+65	LT		1		7		200	196

ROADWAY

REF. Nº	STATION FROM	STATION TO	SIDE ℄	I-15 2-A GUARDRAIL STEEL BEAM LIN. FT.	I-7 REINF. CONC. APPROACH SLAB CLASS "C" SQ. YD.	B-119 CRUSHED AGGREGATE BASE COURSE 8" DEPTH CU. YD. DRIVES
1-R	51+80	52+05	℄		83.7	
2-R	52+16	55+28.5	RT.	312.5		
3-R	51+89	55+26.5	LT.	337.5		
4-R	56+85	—	LT.			15

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK / TEMPLATE		
AREAS		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK / TEMPLATE		
AREAS		
AREAS CHECKED		
NO.		

REVISED-3-31-58

PLATE 4—CROSS SECTION O.P.P. & R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK

S.R. 57 STA. 49+00 TO STA. 60+00
SHEET Nº 2 OF 2

SUPERELEVATION TABLES

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

MED-I-10.09

100
189

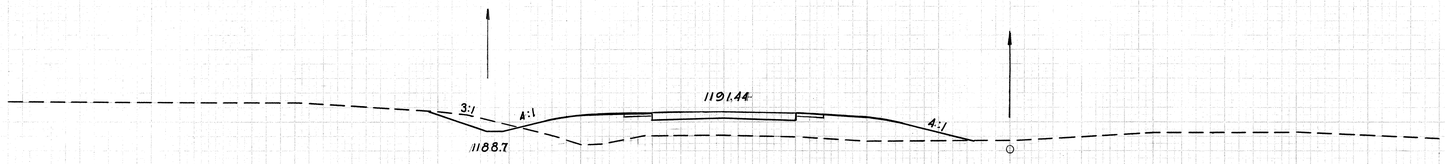
STATE ROUTE — 57

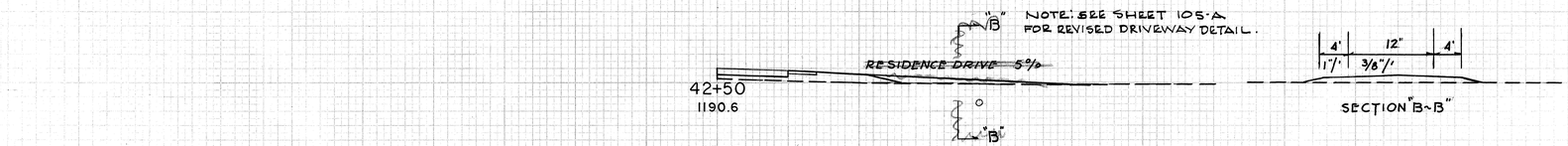
STATION	LEFT EDGE	P.G. CROWN	RIGHT EDGE
43+06.66	1191.10	1191.29	1191.10
43+25	1190.79	1190.93	1190.74
43+50	1190.41	1190.49	1190.30
43+75	1190.08	1190.10	1189.91
43+80.91	1189.89	1189.89	1189.70
44+00	1189.83	1189.78	1189.59
44+19.16	1189.68	1189.58	1189.39
44+25	1189.63	1189.52	1189.32
44+50	1189.49	1189.32	1189.06
44+75	1189.41	1189.18	1188.87
45+00	1189.40	1189.11	1188.75
45+25	1189.44	1189.09	1188.68
45+50	1189.54	1189.13	1188.66
45+75	1189.71	1189.24	1188.72
46+00	1189.94	1189.41	1188.84
46+25	1190.23	1189.64	1189.01
46+50	1190.56	1189.90	1189.22
46+75	1190.88	1190.16	1189.43
47+00	1191.20	1190.42	1189.63

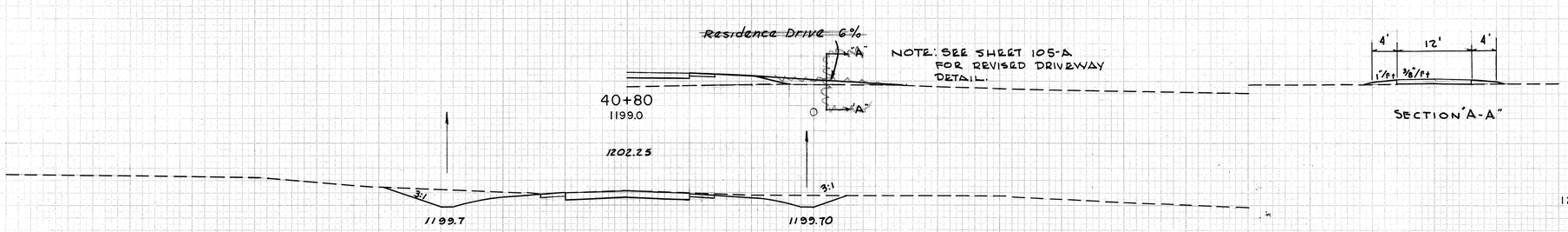
STATION	LEFT EDGE	P.G. CROWN	RIGHT EDGE
47+25	1191.51	1190.68	1189.84
47+50	1191.79	1190.94	1190.09
47+75	1192.05	1191.20	1190.35
48+00	1192.31	1191.46	1190.61
48+25	1192.57	1191.72	1190.87
48+50	1192.83	1191.98	1191.13
48+75	1193.09	1192.24	1191.39
49+00	1193.35	1192.50	1191.65
49+25	1193.61	1192.76	1191.91
49+50	1193.87	1193.02	1192.17
49+75	1194.13	1193.28	1192.43
50+00	1194.39	1193.54	1192.69
50+25	1194.65	1193.80	1192.95
50+50	1194.91	1194.06	1193.21
50+75	1195.17	1194.32	1193.47
51+00	1195.43	1194.58	1193.73
51+25	1195.69	1194.84	1193.99
51+50	1195.95	1195.10	1194.25
51+75	1196.21	1195.36	1194.51

STATION	LEFT EDGE	P.G. CROWN	RIGHT EDGE
52+00	1196.47	1195.62	1194.77
52+25	1196.74	1195.89	1195.04
52+50	1197.02	1196.17	1195.32
52+75	1197.32	1196.47	1195.62
53+00	1197.63	1196.78	1195.93
53+25	1197.96	1197.11	1196.26
53+50	1198.31	1197.46	1196.61
53+75	1198.67	1197.82	1196.97
54+00	1199.04	1198.19	1197.34
54+25	1199.44	1198.59	1197.74
54+50	1199.84	1198.99	1198.14
54+75	1200.27	1199.42	1198.57
55+00	1200.70	1199.85	1199.00
55+25	1201.15	1200.30	1199.45
55+50	1201.60	1200.75	1199.90
55+75	1202.04	1201.19	1200.34
55+83.32	1202.19	1201.34	1200.48
56+00	1202.41	1201.64	1200.87
56+25	1202.7	1202.09	1201.45

STATION	LEFT EDGE	P.G. CROWN	RIGHT EDGE
56+50	1203.05	1202.53	120[illegible]
56+75	1203.37	1202.98	1202.[illegible]
57+00	1203.69	1203.42	1203.15
57+15.47	1203.88	1203.69	1203.50
57+25	1204.01	1203.87	1023.68
57+50	1204.34	1204.32	1024.13
57+53.72	1204.39	1204.39	1204.20
57+75	1204.70	1204.76	1204.57
58+00	1205.09	1205.21	1205.02
58+25	1205.47	1205.65	1205.46
58+27.96	1205.54	1205.73	1205.54







FED. RD.	STATE	PROJECT		
2	OHIO	I-1105 (25)		101 189

MED-1-10.09

SEEDING	
END WIDTH	SQ. YDS.

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
10	110		
		102	213
45	5		
		254	9
92	0		
		346	0
95	0		
		176	0

REVISED:
31 MAR. '58

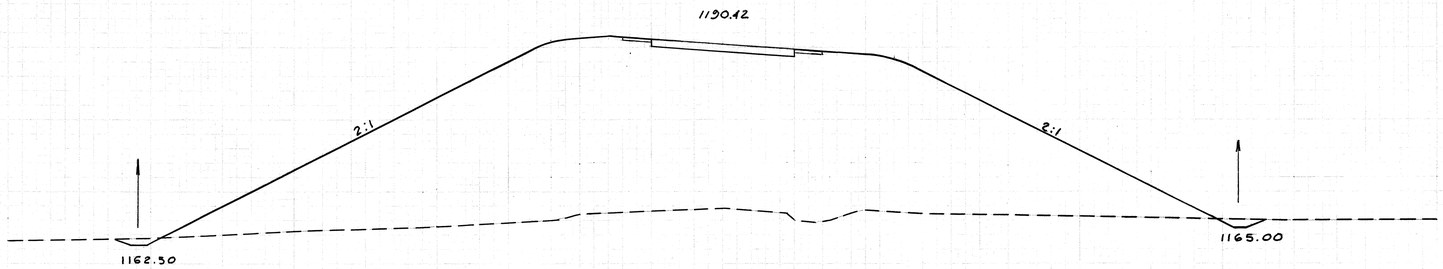
S. R. 57

SEEDING	
END WIDTH	SQ. YDS.

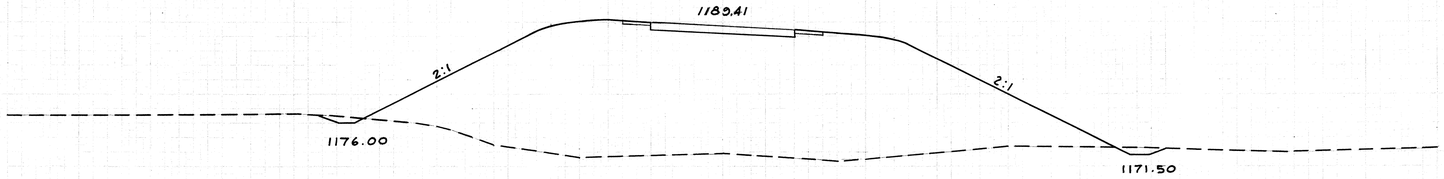
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

102
189

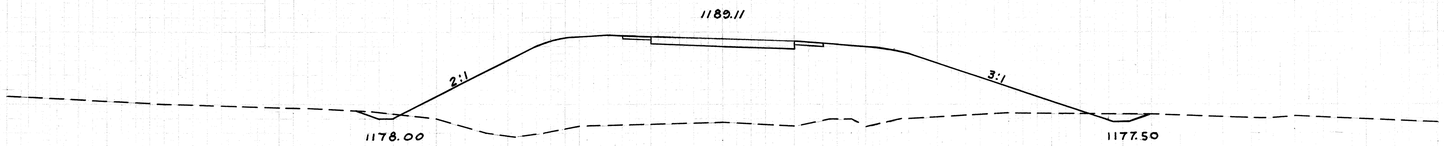
MED-I-10.09



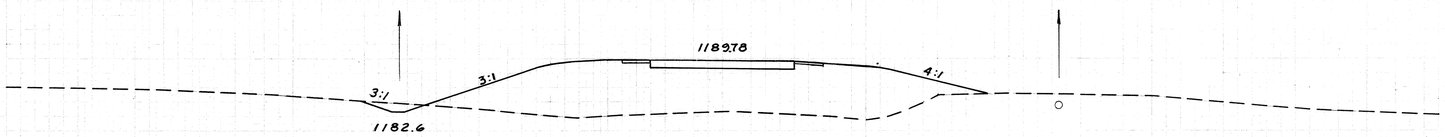
47+00
1167.7



46+00
1171.8



45+00
1177.5



44+00
1182.6

100 80 60 40 20 ℄ 20 40 60 80 100

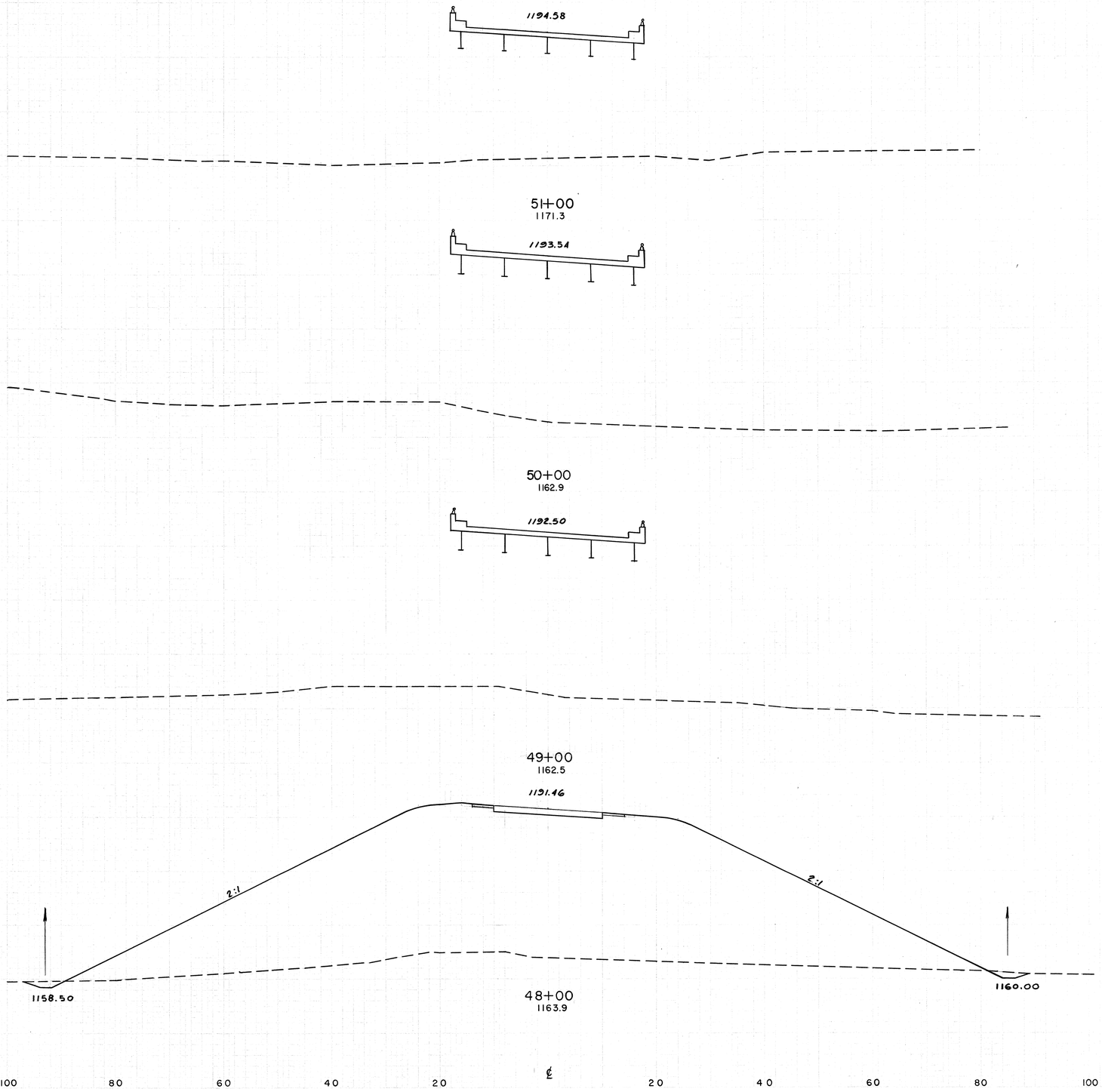
	END AREA		CU. YDS.	
	CUT	FILL	CUT	FILL
1160	10	2260		
			37	6570
1170	10	1288		
			37	3848
1180	10	790		
			30	2213
1180	6	405		
			30	954

S. R. 57

SEEDING	
END WIDTH	SQ. YDS.

FED. RD.	STATE	PROJECT		103 189
2	OHIO	I-1105(25)		

MED-I-10.09



	END AREA		CU. YDS.	
	CUT	FILL	CUT	FILL
1170	0	0		
1160	0	0		
1160	0	0		
			22	5528
1160	12	2985		
			41	9713

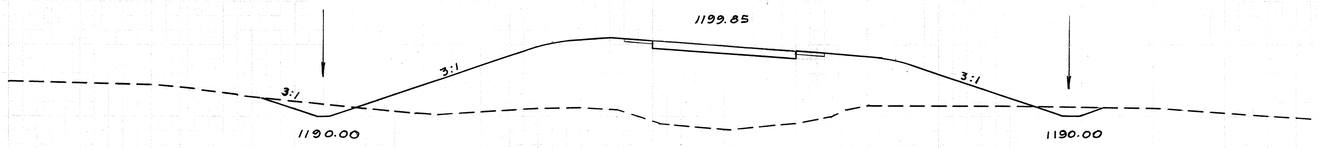
S.R. 57

SEEDING	
END WIDTH	SQ. YDS.

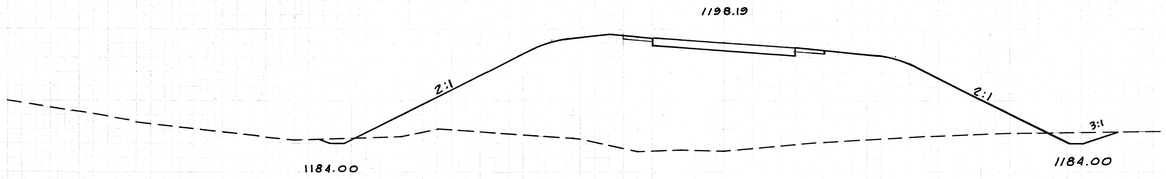
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

104
189

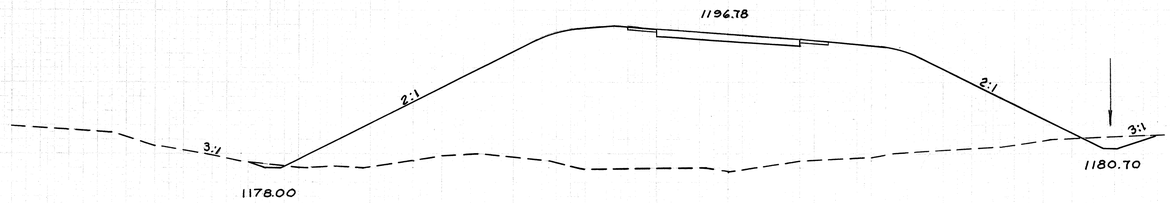
MED-I-10.09



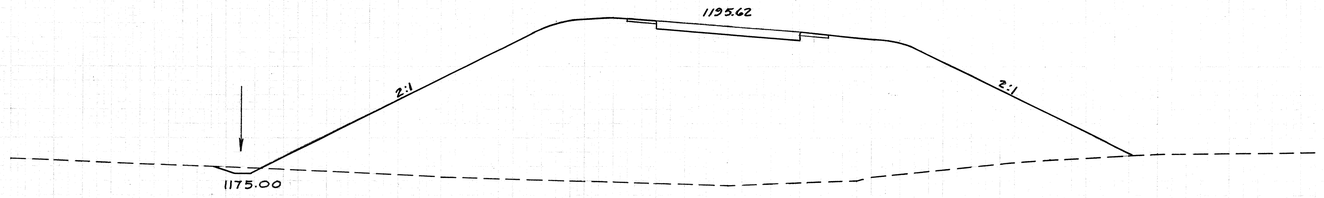
55+00
1188.1



54+00
1183.0



53+00
1177.5



52+00
1173.3

100 80 60 40 20 ℄ 20 40 60 80 100

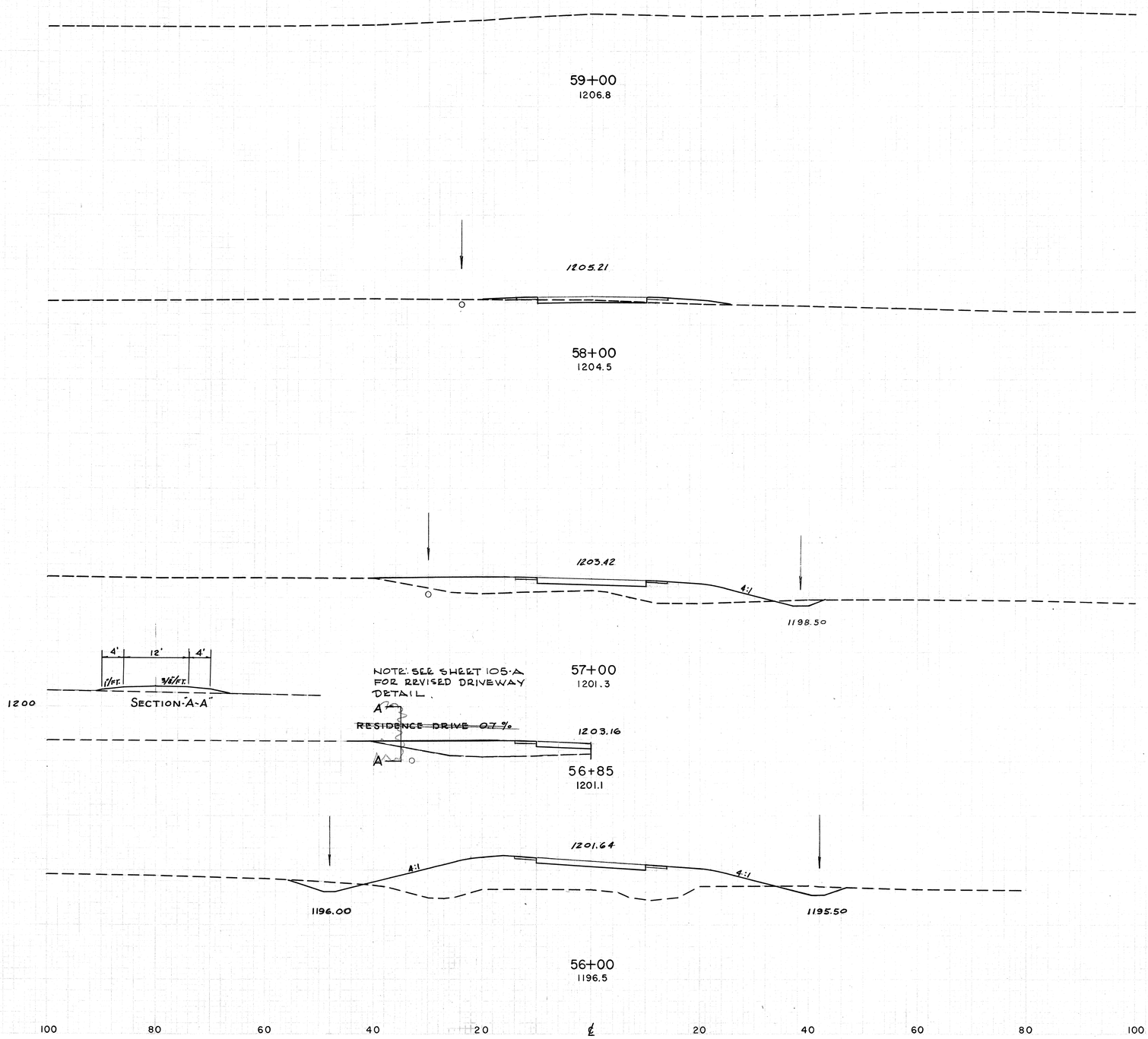
	END AREA		CU. YDS.	
	CUT	FILL	CUT	FILL
1180	21	662		
			61	2952
1180	12	932		
			44	4254
1170	12	1365		
			30	5815
	4	1775		
1170			7	3287

S. R. 57

FED. RD.	STATE	PROJECT		105
2	OHIO	I-1105(25)		189

MED-1-10.09

SEEDING	
END WIDTH	SQ. YDS.



	END AREA		CU. YDS.	
	CUT	FILL	CUT	FILL
1190	0	0		
			19	22
1190	10	12		
			30	293
1190	6	146		
			54	848
1190	23	312		
			81	1804

REVISED:
31 MAR. '58

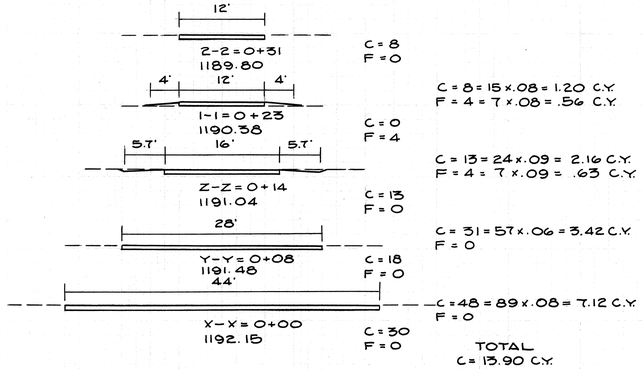
S. R. 57

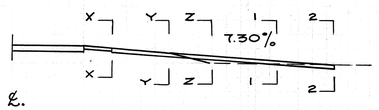
SEEDING	
END WIDTH	SQ. YDS.

FED. ROU.	STATE	PROJECT		105-A 189
2	OHIO	I-1105(25)		

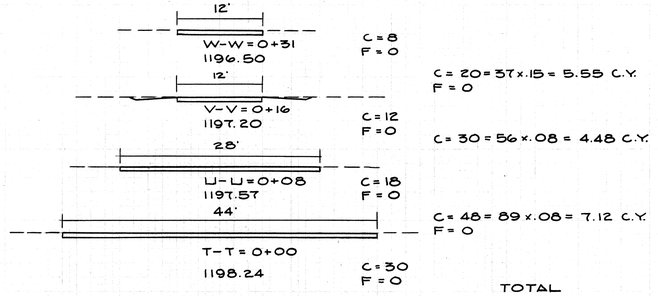
MED. 1-10.09

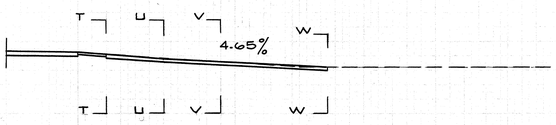
END AREA		CU. YDS.	
CUT	FILL	CUT	FILL



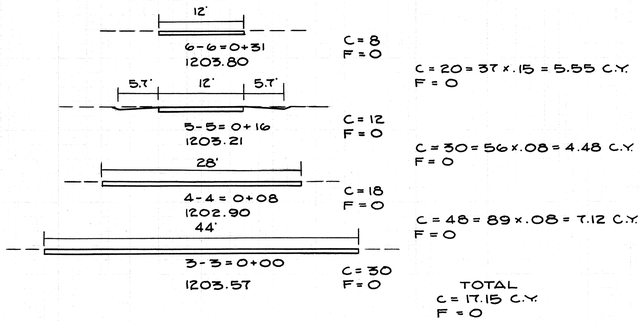


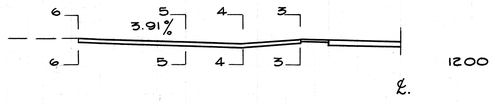
S.R. 57 DRIVE @ STA. 42+50 R. RESIDENT.
SEE SHEET Nº 101 FOR ORIG. DETAILS



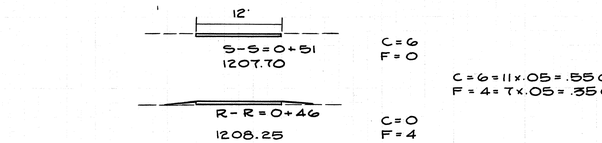


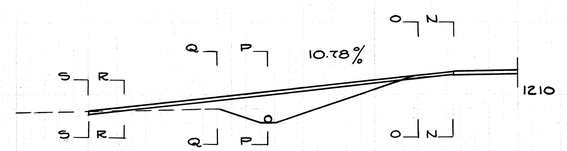
S.R. 57 DRIVE @ STA. 40+80 R. - RESIDENT.
SEE SHEET Nº 101 FOR ORIG. DRIVEWAY DETAIL



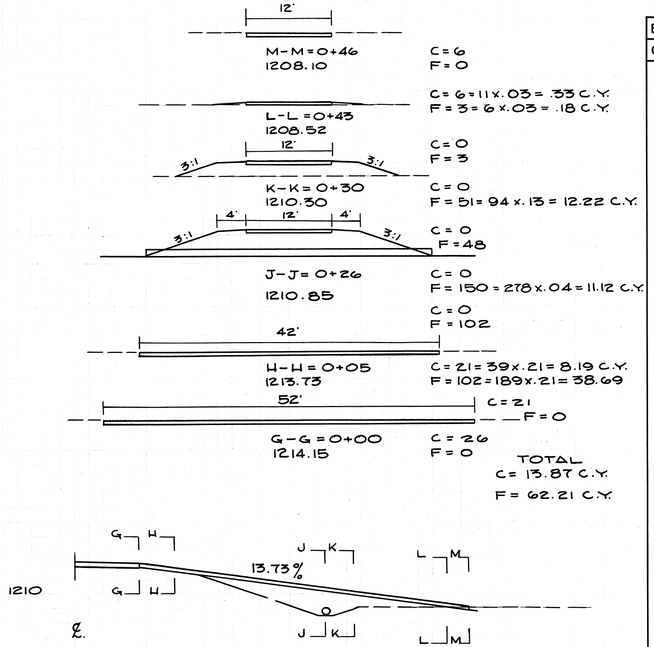


S.R. 57 DRIVE @ STA. 56+85 L. RESIDENT.
SEE SHEET NO 101 FOR ORIG. DRIVEWAY DETAIL.

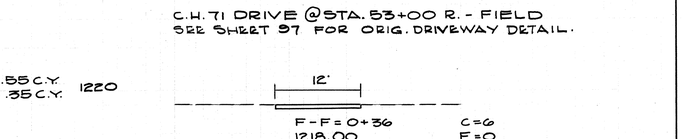


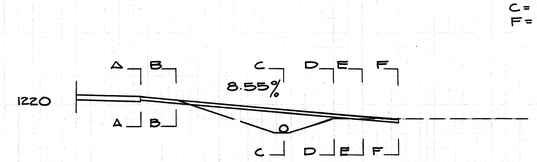


C.H. 71 DRIVE @ STA. 54+00 L. - FIELD
SEE SHEET 97 FOR ORIG. DRIVEWAY DETAIL.



C.H. 71 DRIVE @ STA. 53+00 R. - FIELD
SEE SHEET 97 FOR ORIG. DRIVEWAY DETAIL.





C.H. 71 DRIVE @ STA. 46+86 R. - FIELD.
SEE SHEET 97 FOR ORIG. DRIVEWAY DETAIL

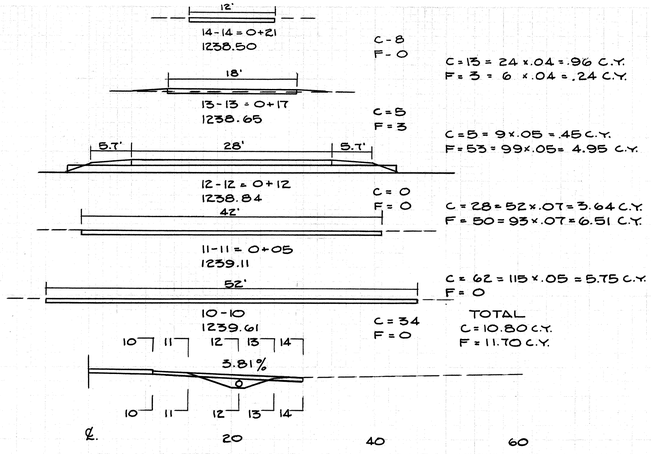
DRIVEWAYS.

FED. RD.	STATE	PROJECT		105-B 189
2	OHIO	I-1105(25)		

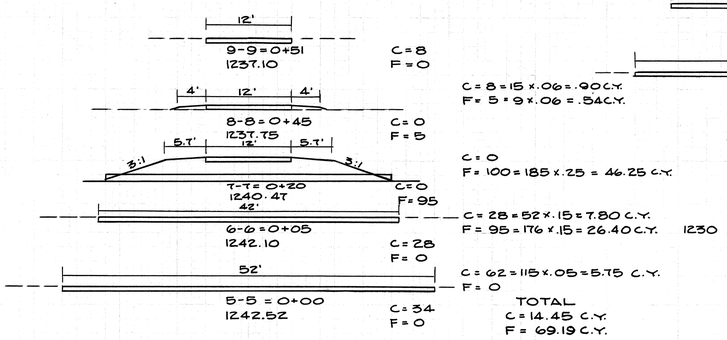
MED. 1-10.09

SEEDING	
END WIDTH	SQ. YDS.

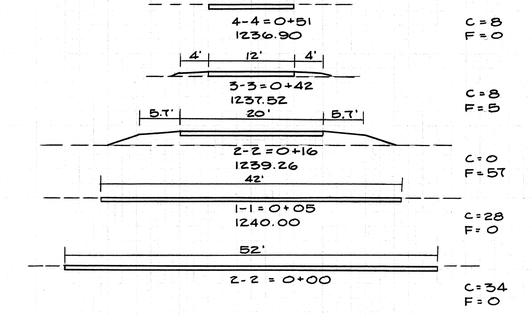
END AREA		CU. YDS.	
CUT	FILL	CUT	FILL



C.H. 121 DRIVE @ STA. 55+77 R. RESIDENT.
SEE SHEET Nº 94 FOR ORIG. DETAIL



C.H. 121 DRIVE @ STA. 45+60 L. RESIDENT.
NOTE: SEE SHEET Nº 92 FOR ORIG. DETAIL



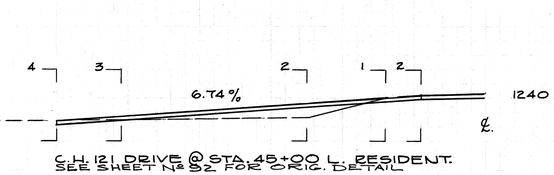
C=8 = 15 x.09 = 1.35 C.Y.
F= 5 = 9 x.09 = .81 C.Y.

C=0
F = 62 = 115 x.26 = 29.90 C.Y.

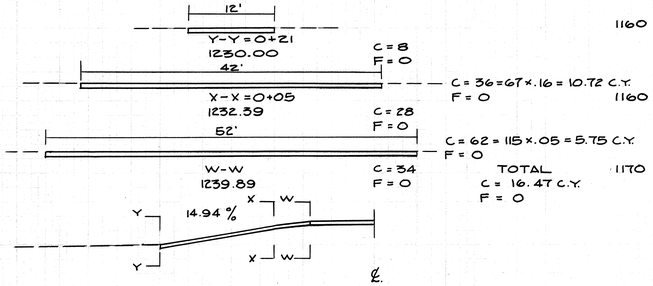
C = 28 = 52 x.11 = 5.72 C.Y.
F = 57 = 106 x.11 = 11.66 C.Y.

C = 62 = 115 x.05 = 5.75 C.Y.
F = 0

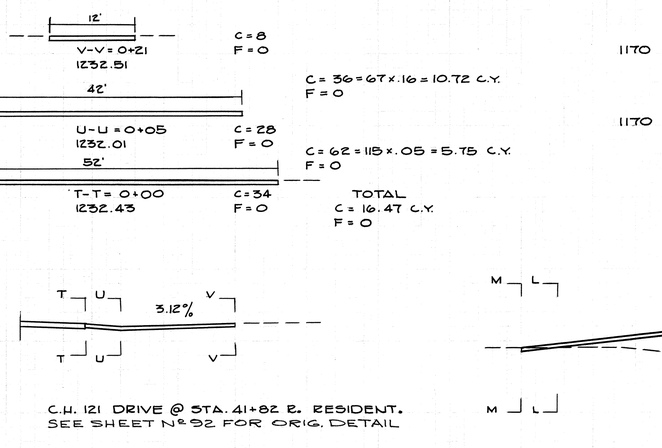
TOTAL
C = 12.82 C.Y.
F = 42.37 C.Y.



C.H. 121 DRIVE @ STA. 45+00 L. RESIDENT.
SEE SHEET Nº 92 FOR ORIG. DETAIL

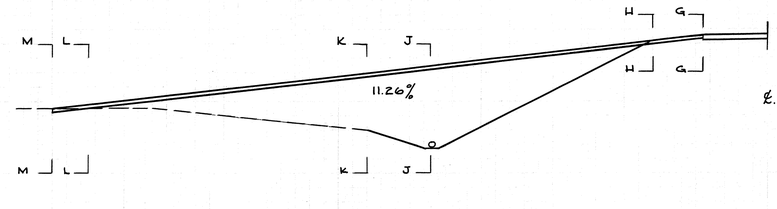


C.H. 121 DRIVE @ STA. 42+08 L. FIELD.
SEE SHEET Nº 92 FOR ORIG. DETAIL

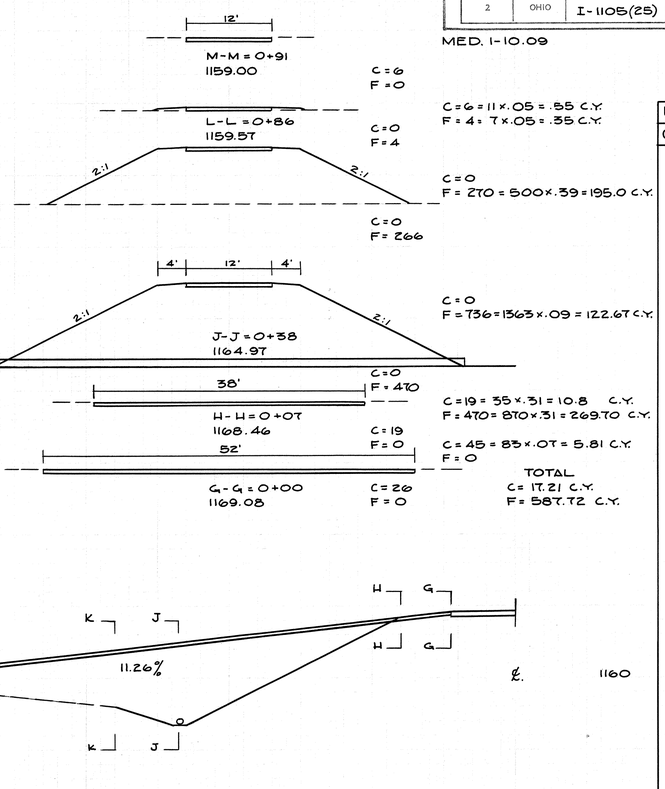


C=8 = 15 x.06 = .90 C.Y.
F= 5 = 9 x.06 = .54 C.Y.

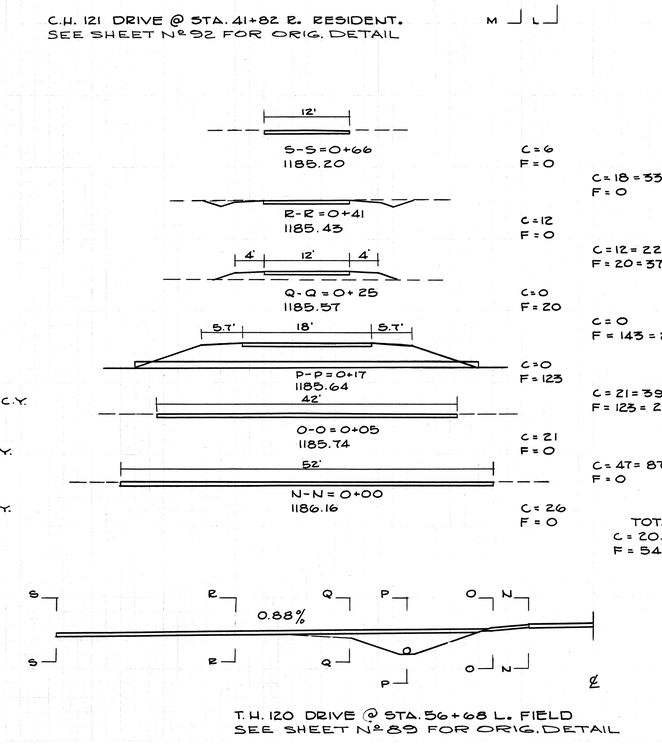
C.H. 121 DRIVE @ STA. 41+82 R. RESIDENT.
SEE SHEET Nº 92 FOR ORIG. DETAIL



T.H. 120 DRIVE @ STA. 44+00 L. FIELD
SEE SHEET Nº 86 FOR ORIG. DETAIL



C.H. 121 DRIVE @ STA. 45+00 L. RESIDENT.
SEE SHEET Nº 92 FOR ORIG. DETAIL



T.H. 120 DRIVE @ STA. 56+68 L. FIELD
SEE SHEET Nº 89 FOR ORIG. DETAIL

1070
C = 18 = 33 x.25 = 8.25 C.Y.
F = 0

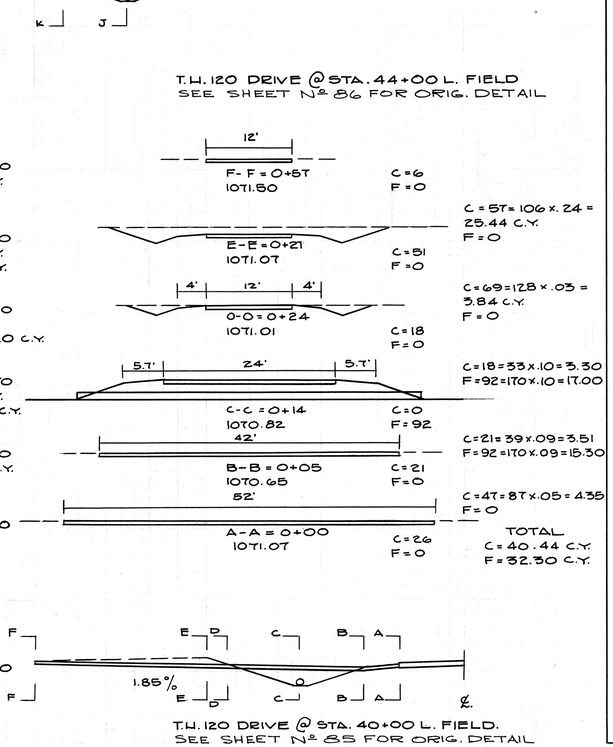
1070
C = 12 = 22 x.16 = 3.52 C.Y.
F = 20 = 37 x.16 = 5.92 C.Y.

1070
C = 0
F = 143 = 265 x.08 = 21.20 C.Y.

1070
C = 21 = 39 x.12 = 4.68 C.Y.
F = 123 = 228 x.12 = 27.36 C.Y.

1070
C = 47 = 87 x.05 = 4.35 C.Y.
F = 0

TOTAL.
C = 20.86 C.Y.
F = 54.48 C.Y.



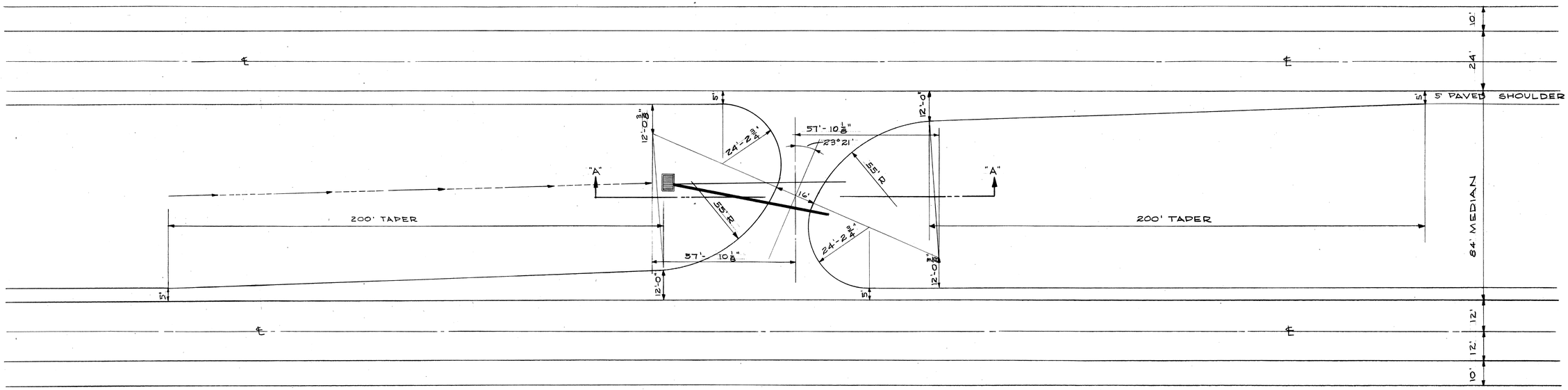
T.H. 120 DRIVE @ STA. 40+00 L. FIELD.
SEE SHEET Nº 85 FOR ORIG. DETAIL

DRIVE WAYS

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

106
189

MED-I-10.09

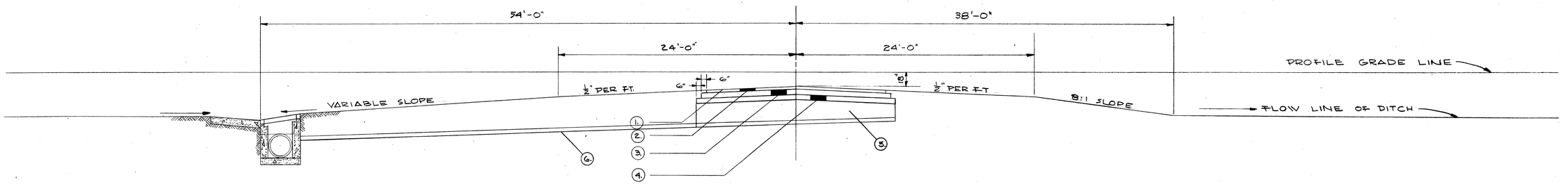


TYPICAL CROSS OVER STATION 741+52

SCALE : 1" = 20'-0"

LEGEND

1. T-31 BITUMINOUS SURFACE TREATMENT (SEE PLAN NOTE)
2. B-33 3" BITUMINOUS MACADAM BASE COURSE
3. I-18 6" STABILIZED CRUSHED AGGREGATE SHOULDERS & APPROACHES
4. I-22 6" SUBBASE
5. I-4 6" PIPE UNDERDRAIN
6. I-4 8" C.M.P. PIPE OUTLET



SECTION "A-A"

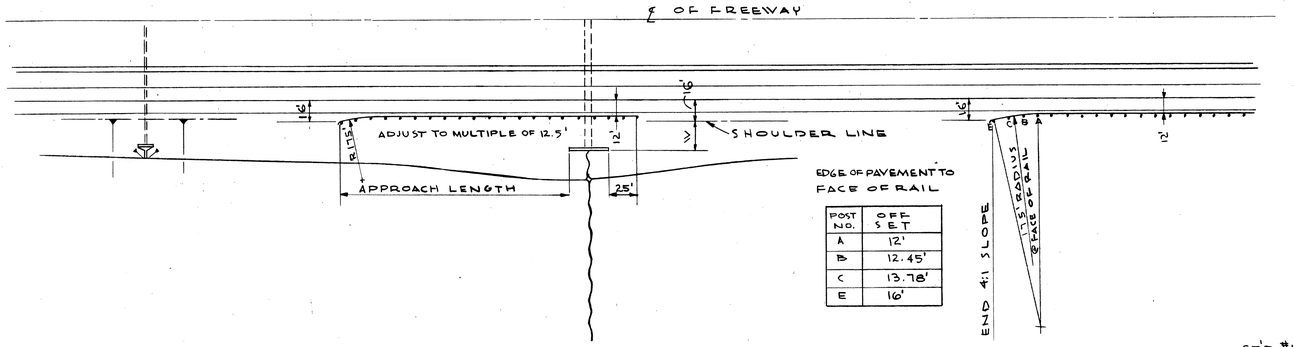
SCALE : 1" = 5'-0"

TURN-A-ROUND

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

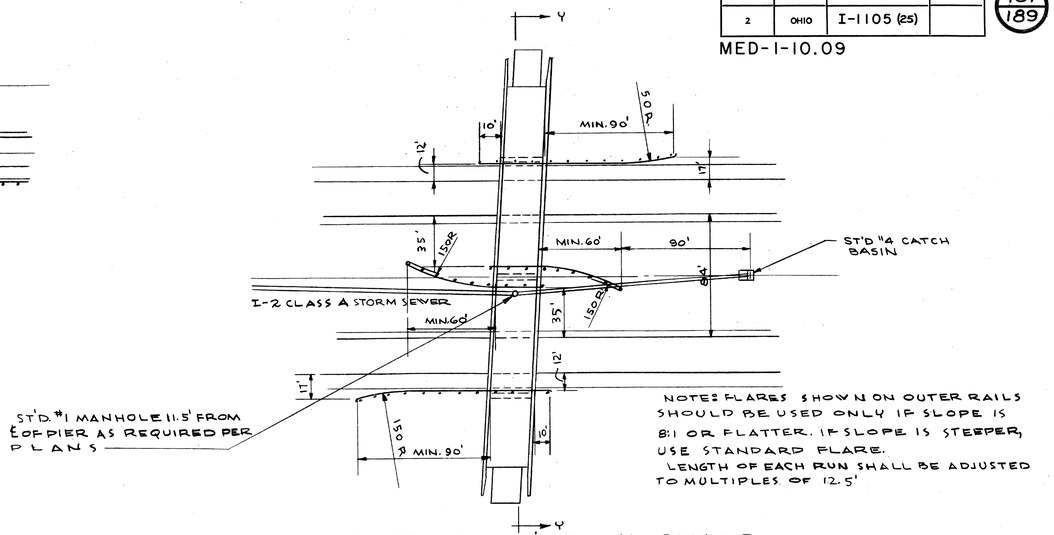
107
189

MED-1-10.09



POST NO.	OFF SET
A	12'
B	12.45'
C	13.78'
E	16'

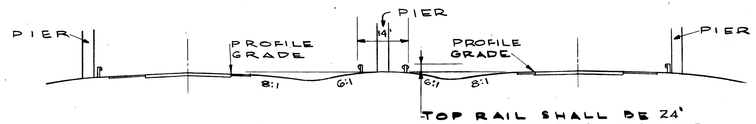
PROTECTION @ HEADWALL
FOR STRUCTURE WITH RISE OF 36" OR MORE



NOTE: FLARES SHOWN ON OUTER RAILS SHOULD BE USED ONLY IF SLOPE IS 8:1 OR FLATTER. IF SLOPE IS STEEPER, USE STANDARD FLARE.
LENGTH OF EACH RUN SHALL BE ADJUSTED TO MULTIPLES OF 12.5'

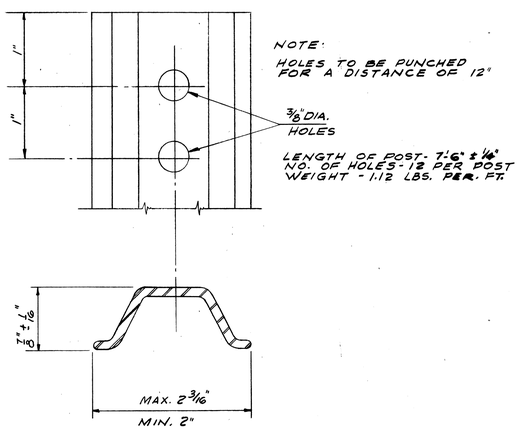
PIER PROTECTION IN 84' MEDIAN-4 LANE DIVIDED
SCALE: 1"=50'-0"

TYPICAL APPLICATION OF GUARD RAILING AT LOCATIONS OTHER THAN BRIDGES
SCALE: 1"=60'-0"



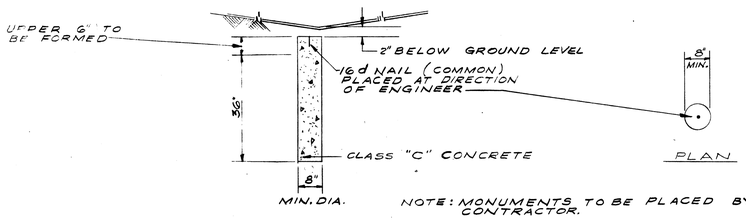
TOP RAIL SHALL BE 24" ABOVE PROFILE GRADE LINE THROUGHOUT LENGTH OF RAIL

SECTION Y-Y
SCALE: 1"=20'-0"



★ LENGTH OF STEEL SUPPORT SHALL BE SUCH THAT THE CENTER OF THE DELINEATOR WILL BE 48" ABOVE THE ELEVATION OF A POINT IN THE BRIDGE DECK LOCATED 12" FROM THE FACE OF THE PARAPET.

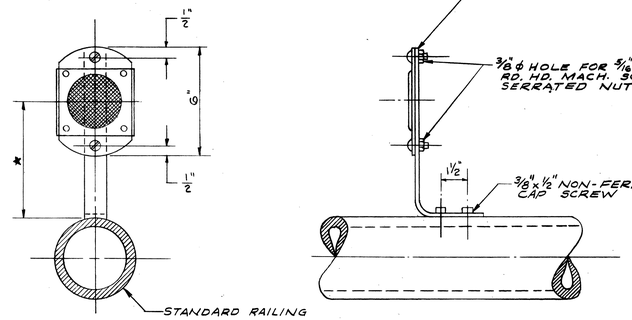
DETAIL OF STEEL DRIVE POST FOR DELINEATOR



NOTE: MONUMENTS TO BE PLACED BY CONTRACTOR.

SECTION

DETAIL OF CENTERLINE REFERENCE MONUMENTS



DELINEATOR & BRIDGE RAIL BRACKET

★ DELINEATORS SHALL BE LOCATED AT INTERVALS OF 130 LIN. FEET ALONG THE RIGHT SIDE OF EACH PAVEMENT IN A LINE 12'-5" FROM THE PAVEMENT EDGE. REFER TO SPECIAL PROVISIONS OF THE PROPOSAL FOR ALL NECESSARY SPECIFICATIONS & REQUIREMENTS.

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

108
189

MED-I-10.09

SPECIAL BERM AND SLOPE PROTECTION

PRIOR TO PLACEMENT OF SOD IN THE BERM & SLOPE, GALVANIZED POULTRY FENCE SHALL BE PLACED ON THE FINISHED GRADE IN STRANDS WHICH SHALL BE AT RIGHT ANGLES TO THE DIRECTION OF FLOW. EACH STRAND SHALL BE STAKED SECURELY ON TOP & BOTTOM WITH STAKES AT FOOT INTERVALS & ALTERNATED IN ROWS FOUR FEET APART

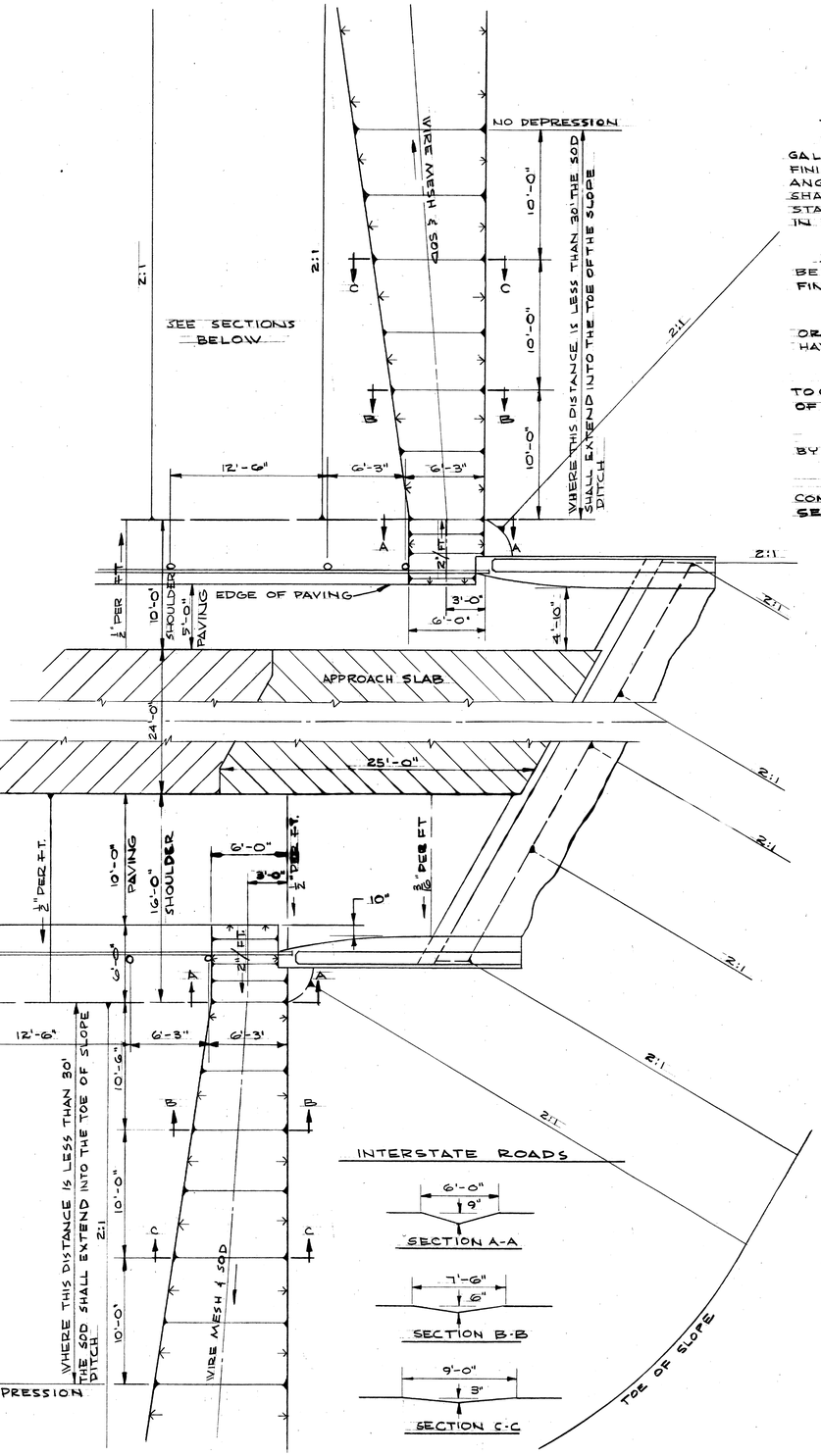
STAKES SHALL BE 1" x 1" x 8" WOOD STAKES AND SHALL BE PREPENDICULAR TO THE GROUND & FLUSH WITH THE FINISHED GRADE

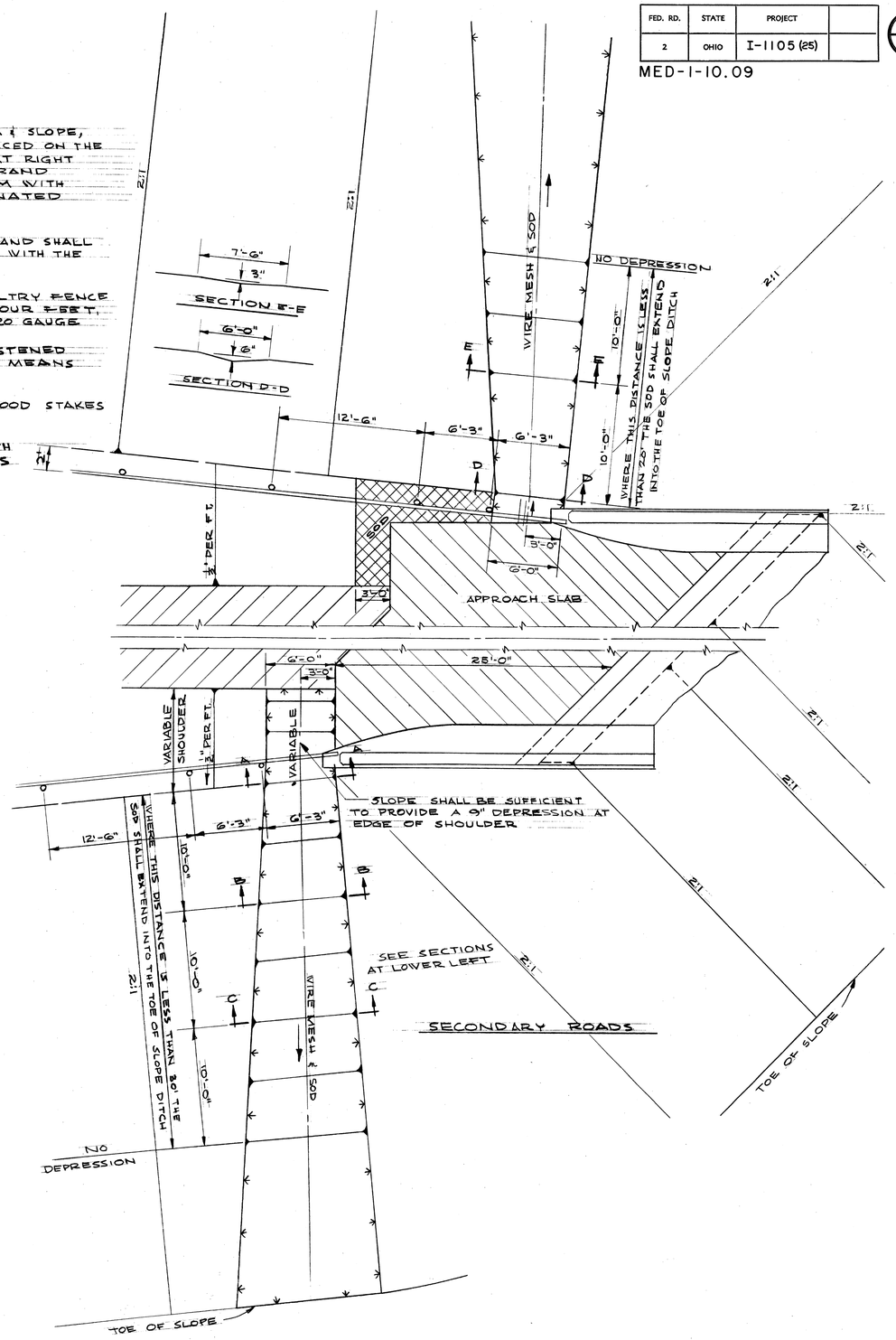
THE FENCE SHALL BE STRAIGHT LINE POULTRY FENCE OR EQUIVALENT WITH STRAND WIDTH OF FOUR FEET, HAVING A TWO INCH MESH AND ALL WIRES No.20 GAUGE

EACH STRAND OF FENCING SHALL BE FASTENED TOGETHER AT TWELVE INCH INTERVALS BY MEANS OF HOG RINGS

THE FENCE SHALL BE SECURED TO THE WOOD STAKES BY METAL STAPLES

SOD SHALL BE LAID IN ACCORDANCE WITH CONSTRUCTION & MATERIALS SPECIFICATIONS SECTION L-10.07



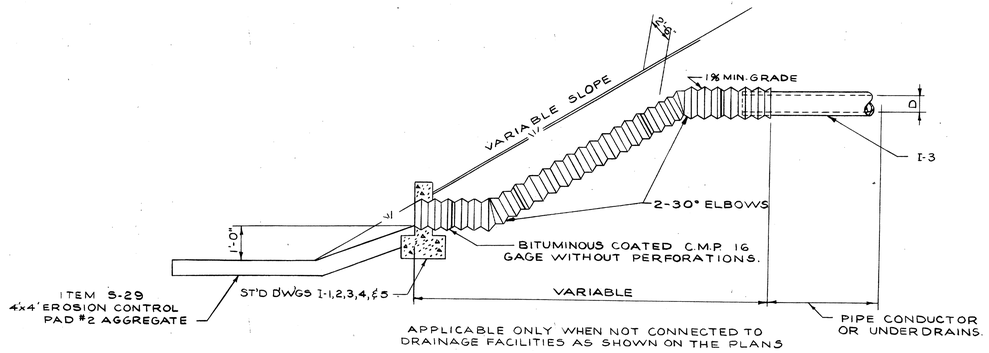


BERM PROTECTION

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

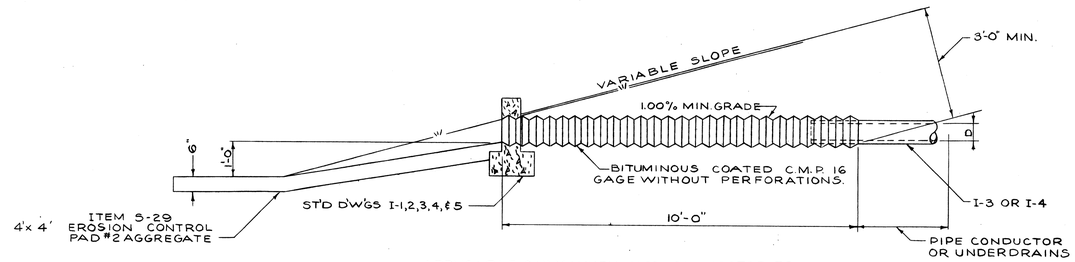
MED.-1-10.09

109
189



PIPE OUTLET FOR SUBSURFACE DRAINS I-3

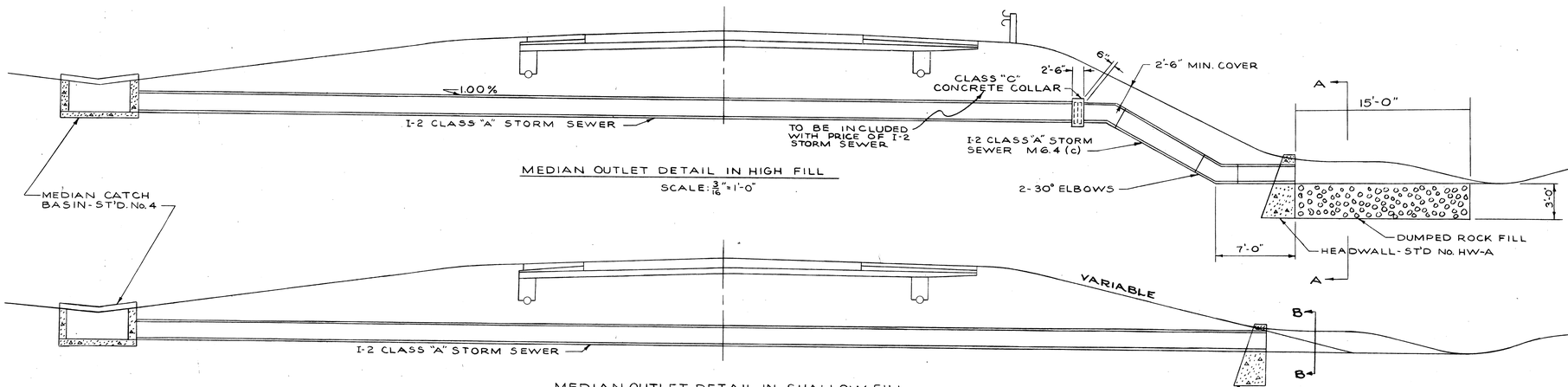
SCALE: $\frac{1}{2}$" = 1'-0"



APPLICABLE ONLY WHEN NOT CONNECTED TO DRAINAGE FACILITIES AS SHOWN ON THE PLANS.

PIPE OUTLET FOR SUBSURFACE DRAINS I-3 & I-4

SCALE: $\frac{1}{2}$" = 1'-0"

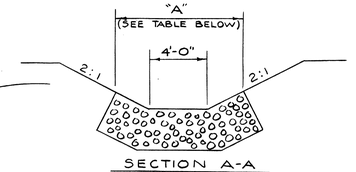


MEDIAN OUTLET DETAIL IN HIGH FILL

SCALE: $\frac{3}{16}$" = 1'-0"

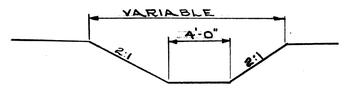
MEDIAN OUTLET DETAIL IN SHALLOW FILL

SCALE: $\frac{3}{16}$" = 1'-0"

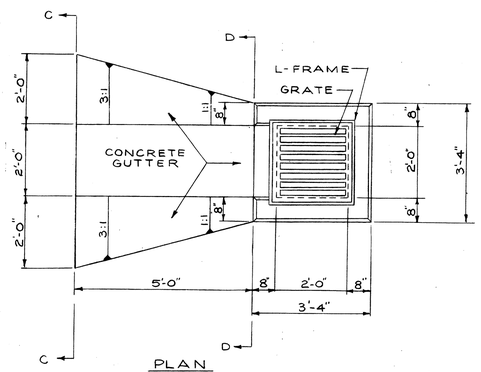


SECTION A-A

PIPE SIZE	DIM. "A"
15" & 18"	9'
27"	16'
36"	17'
42"	20'
48"	23'



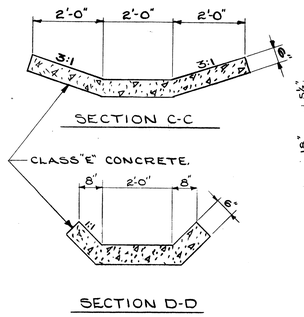
SECTION B-B



PLAN

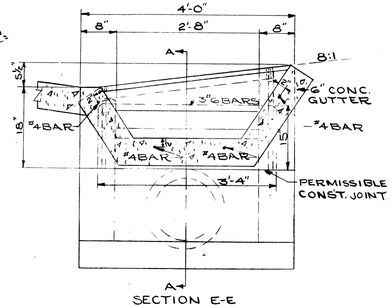
CONCRETE GUTTER FOR 2-2-A CATCH BASIN

SCALE: $\frac{1}{4}$" = 1'-0"

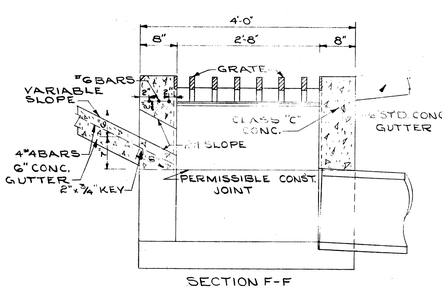


SECTION C-C

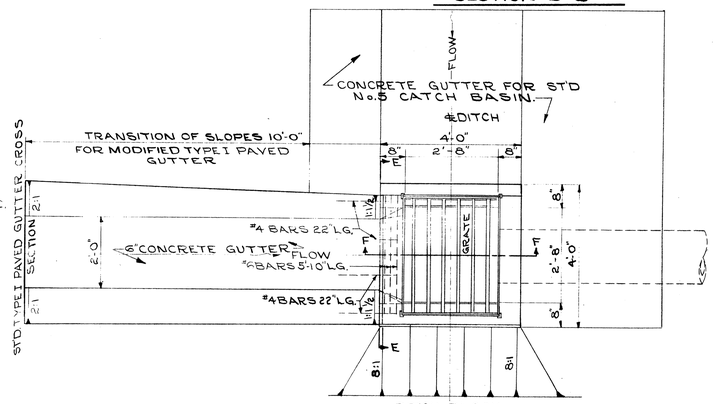
SECTION D-D



SECTION E-E



SECTION F-F



DITCH BLOCK

PLAN

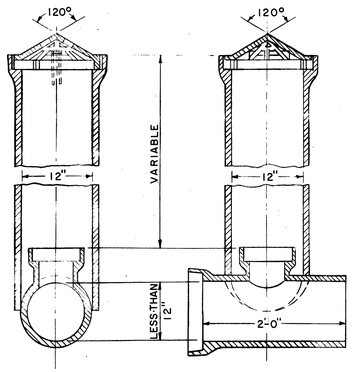
MODIFIED ST'D. # 5 CATCH BASIN WITH MODIFIED TYPE I PAVED GUTTER

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

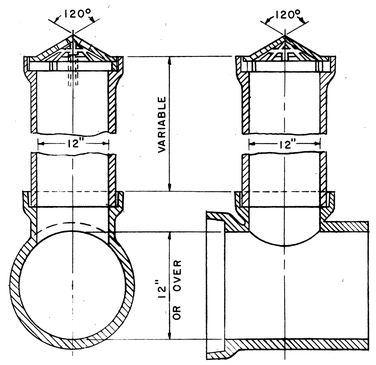
110
189

MED.1-10.09

CONSTRUCTED ON PIPE
LESS THAN 12" DIAMETER



CONSTRUCTED ON PIPE
12" DIAMETER OR OVER



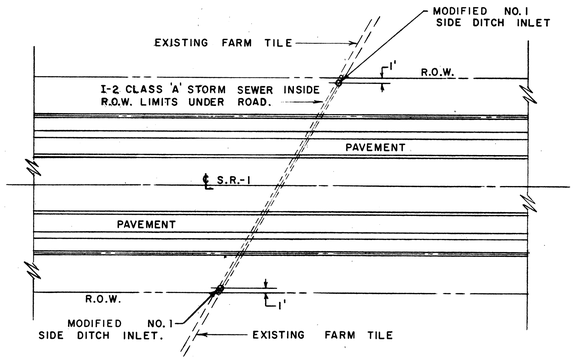
NOTES

CASTING SHALL BE OF CAST IRON IN ACCORDANCE WITH MATERIAL DETAILS. THE DESIGN SHALL BE ESSENTIALLY THE SAME AND EQUALLY AS STRONG AS THE ONE SHOWN HEREON, AND SHALL BE GIVEN ONE COAT OF ASPHALTUM PAINT AS PER SPECIFICATIONS. WEIGHT, MINIMUM, 22 POUNDS.

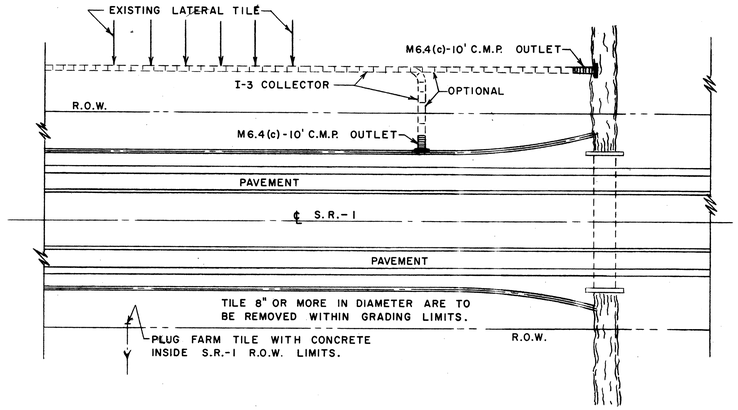
RISER PIPE IN ALL CASES SHALL BE 12" INCHES IN DIAMETER REGARDLESS OF SIZE OF CARRYING LINE.

TEE :- WHERE CARRYING LINE IS NOT CONTINUOUS THROUGH INLET THE UPSTREAM OPENING OF THE TEE SHALL BE PROPERLY PLUGGED USING VITRIFIED STOPPER AND SEALED JOINT.

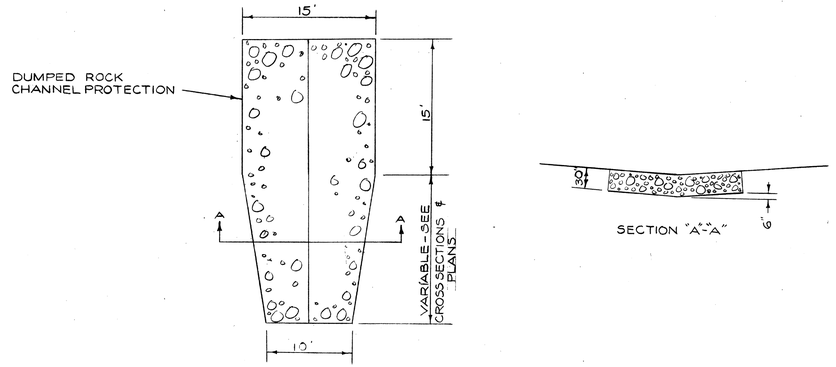
STANDARD NO. 1 MODIFIED INLET



FARM TILE ENCOUNTERED BELOW ROADWAY DITCH ELEVATION



FARM TILE ENCOUNTERED ABOVE ROADWAY DITCH ELEVATION



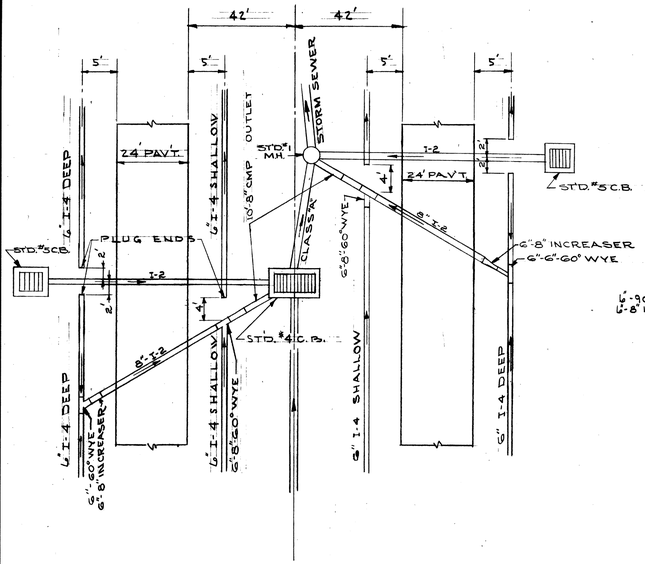
BACK SLOPE PROTECTION
SCALE: 1/8" = 1'-0"

DRAINAGE DETAILS

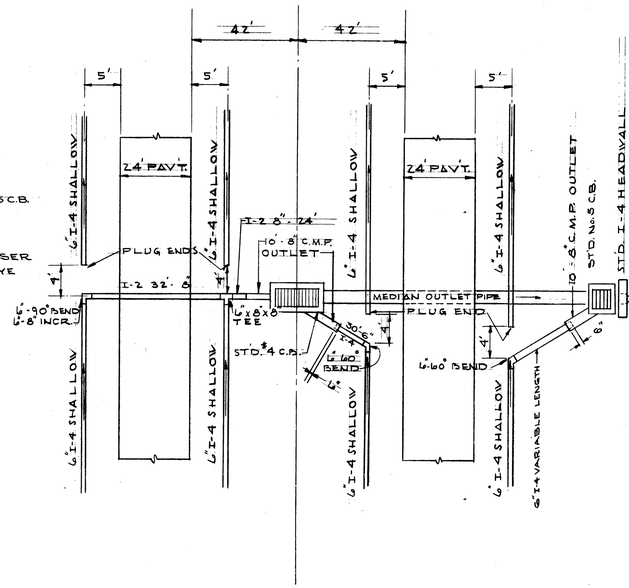
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

111
189

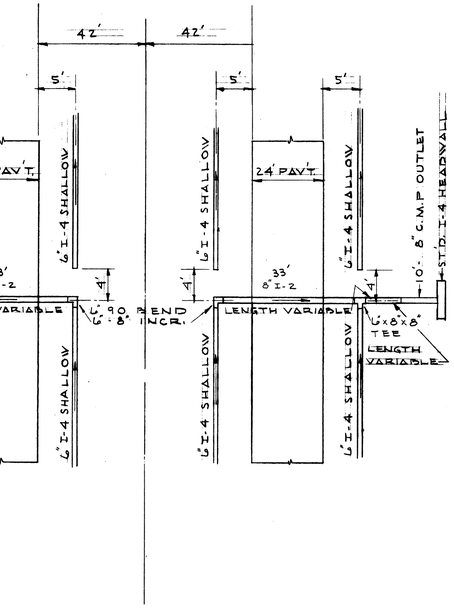
MED.-I-10.09



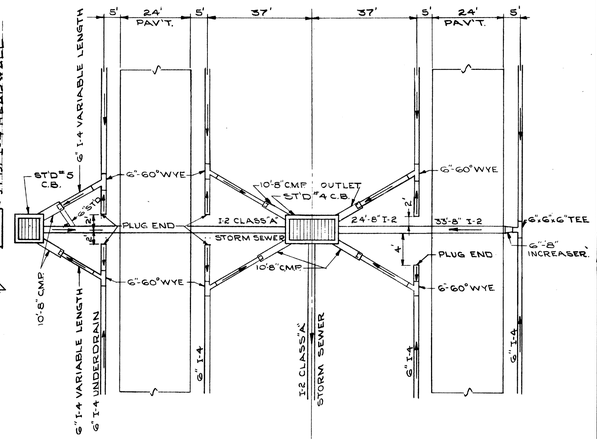
DETAIL 'A'



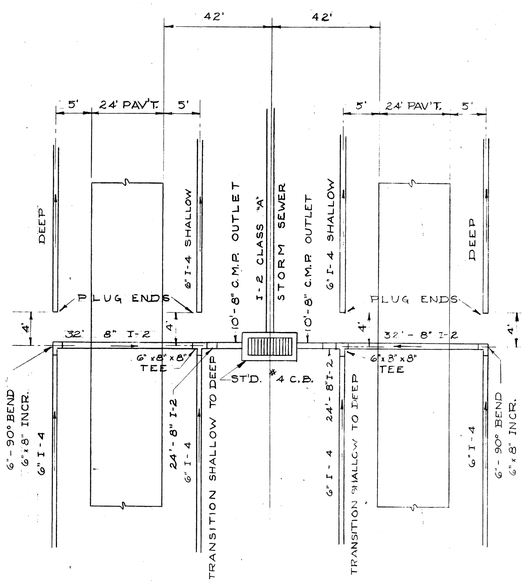
DETAIL "B"



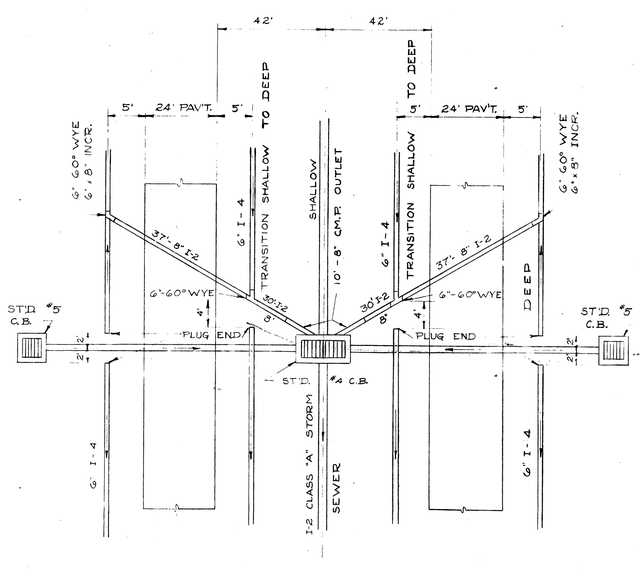
DETAIL "C"



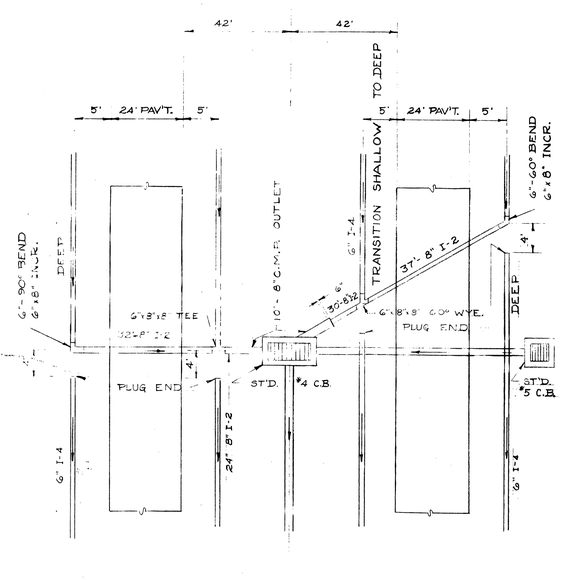
DETAIL "G"



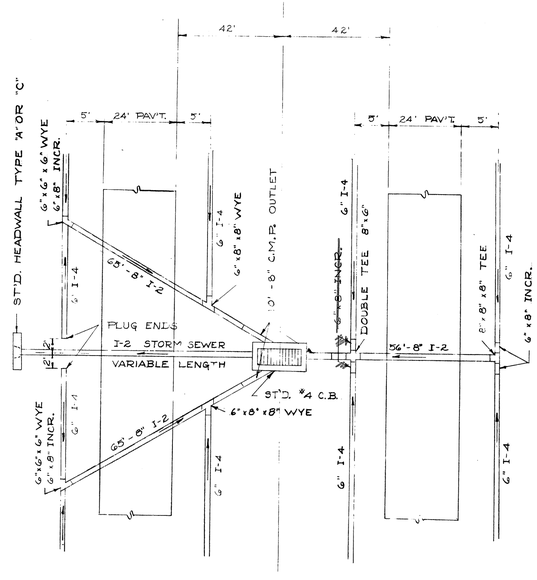
DETAIL "D"



DETAIL "E"



DETAIL "F"



DETAIL "H"

I-4 UNDERDRAIN OUTLET
DETAILS

REVISED-31-MAR.58

DRAINAGE DETAILS

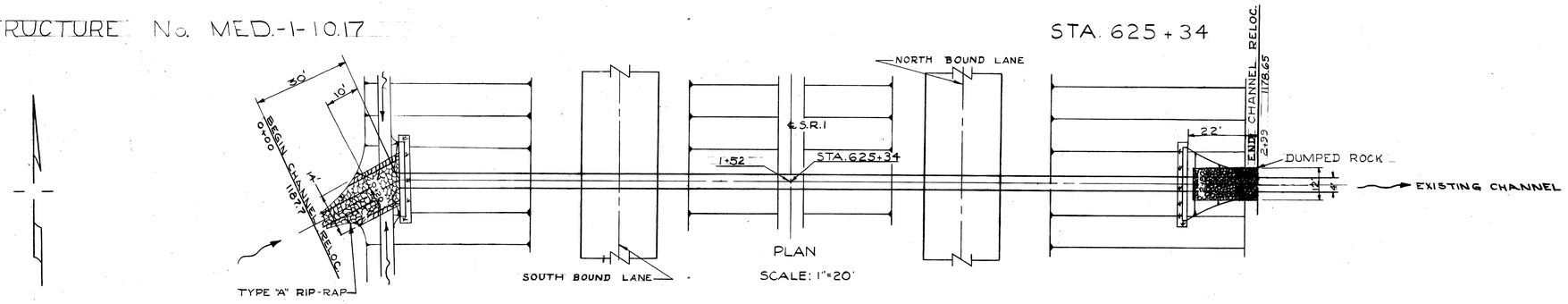
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

112
189

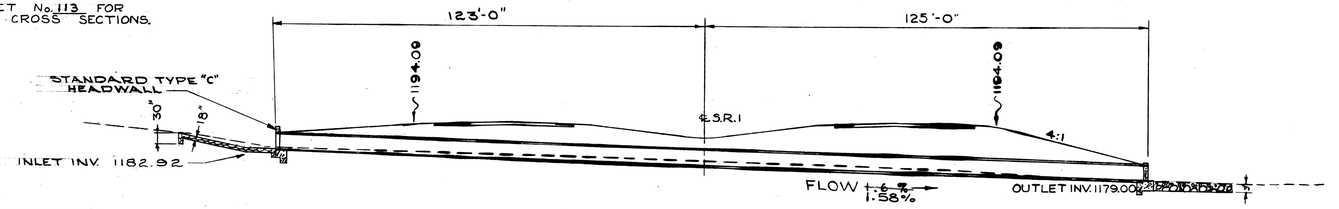
MED-1-10.09

STRUCTURE No. MED.-1-10.17

STA. 625+34



NOTE: SEE SHEET No. 113 FOR CHANNEL CROSS SECTIONS.



HW_{50} =	5.5 FT.
V_7 =	15.0 F.P.S.

AREA: 37 ACRES
Q_{50} = 91 C.F.S.

CULVERT DATA

TYPE: STANDARD PIPE CULVERT M6.6(b)
SIZE: 42" x 248'-0"
SKEW: NONE
WORK REQUIRED: BUILD NEW 42" x 248'0" STD. PIPE CULVERT AS SHOWN.

625+34
CROSS SECTION
SCALE: 1"=20'

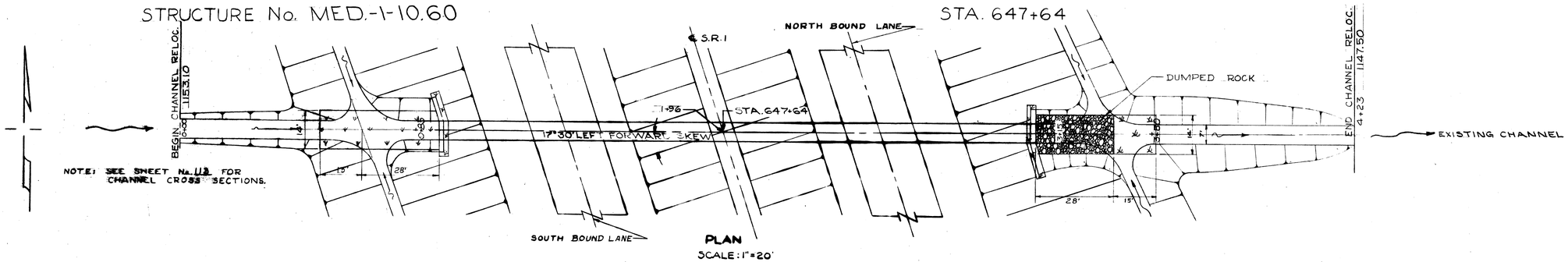
LISTED IN COLUMN-16 ON SHEET No. 12

ESTIMATED QUANTITIES

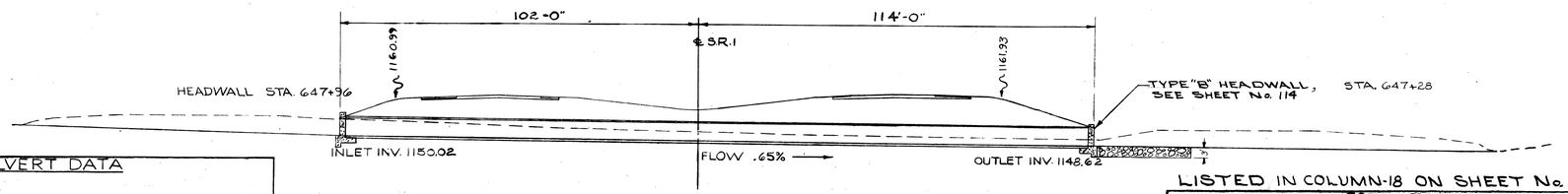
E-2	EXCAVATION FOR STRUCTURE	22 C.Y.
E-3	CHANNEL EXCAVATION	63 C.Y.
I-10	RIP-RAP, TYPE "A"	40 S.Y.
I-10	DUMPED ROCK CHANNEL PROTECTION	29 C.Y.
L-10	SODDING	8.5 S.Y.
S-1	CONCRETE FOR STRUCTURES, CLASS "C"	21.8-22 C.Y.
S-4	REINFORCING STEEL	940 LBS.
S-27	42" PIPE FOR ROADWAY CULVERTS	248 LIN. FT.

STRUCTURE No. MED.-1-10.60

STA. 647+64



NOTE: SEE SHEET No. 113 FOR CHANNEL CROSS SECTIONS.



	M6.6(b)	M6.4(g)
HW_{50} =	6.2 FT.	6.2 FT.
V_7 =	12.0 F.P.S.	9.0 F.P.S.

AREA = 12.5 ACRES
Q_{50} = 21.8 C.F.S.

CULVERT DATA

TYPE: STD. PIPE CULVERT M6.4(g) GA.10 M6.6(b)
SIZE: 72" x 216'-0"
SKEW: 17°-30' LT. FWD.
WORK REQUIRED: BUILD NEW 72" x 216' 0" STD. PIPE CULVERT AS SHOWN.

647+64
CROSS SECTION
SCALE: 1"=20'

LISTED IN COLUMN-18 ON SHEET No. 12

ESTIMATED QUANTITIES

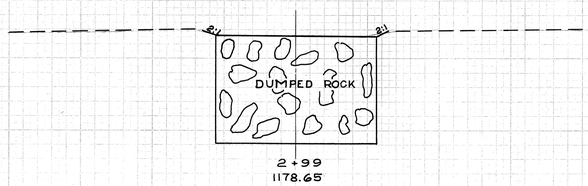
E-2	EXCAVATION FOR STRUCTURES	44 C.Y.
E-3	CHANNEL EXCAVATION	706 C.Y.
I-10	DUMPED ROCK CHANNEL PROTECTION	44 C.Y.
L-10	SODDING	103 S.Y.
S-1	CONCRETE FOR STRUCTURES, CLASS "C"	56 C.Y.
S-4	REINFORCING STEEL	2890 LBS.
S-27	72" PIPE FOR ROADWAY CULVERTS	216 LIN. FT.

REVISED-3-31-58

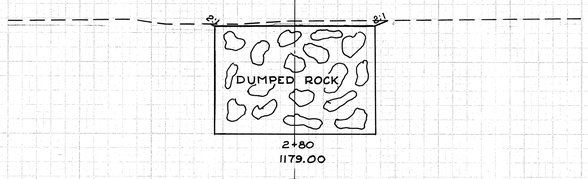
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

113
189

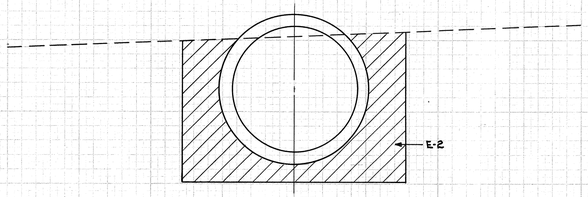
MED.-I-10.09



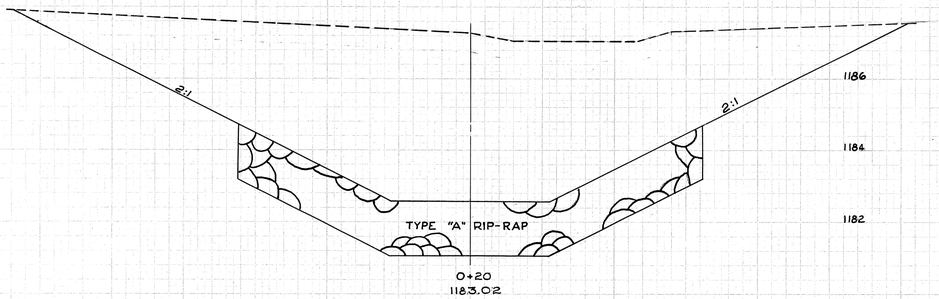
2+99
1178.65



2+80
1179.00



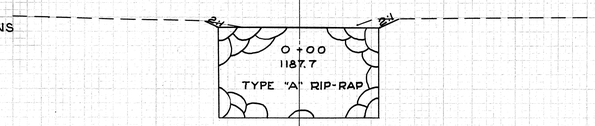
1+52
1180.87



0+20
1183.02

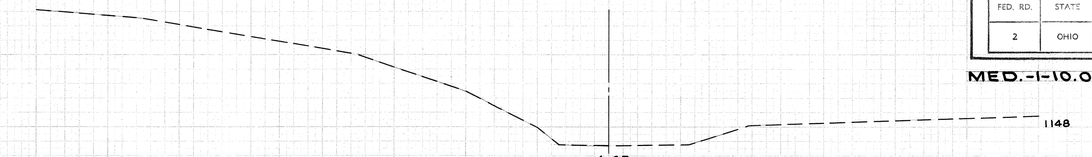
SEE SHEET No. 112
FOR PLAN VIEW.

CHANNEL CROSS SECTIONS
STA. 625+34
SCALE: 1"= 2'0"

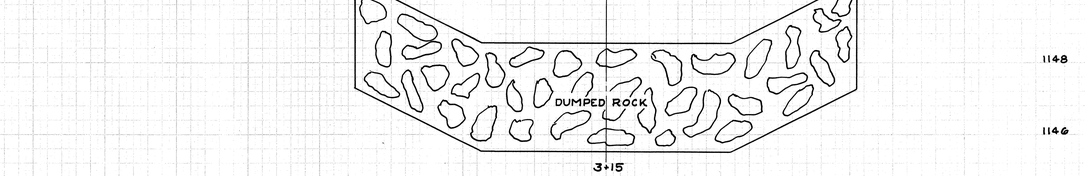


0+00
1187.7

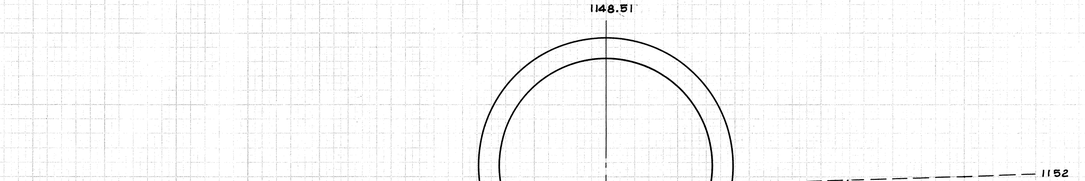
1188
1186
1184
1182
1180
1178



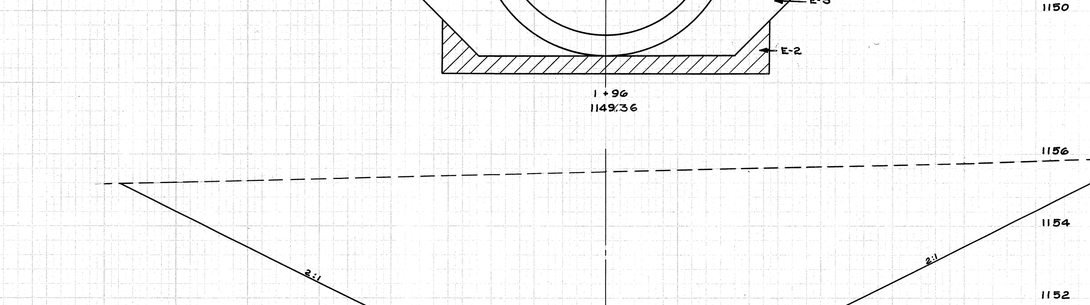
4+23
1147.50



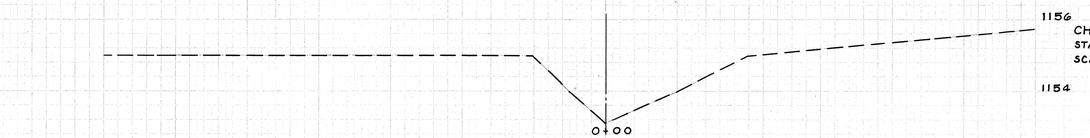
3+15
1148.51



1+96
1149.36



0+85
1150.31



0+00
1153.10

1156
1154
1152
1150
1148
1146

SEE SHEET No. 112
FOR PLAN VIEW.

CHANNEL CROSS SECTIONS
STA. 647+64
SCALE: 1"= 2'0"

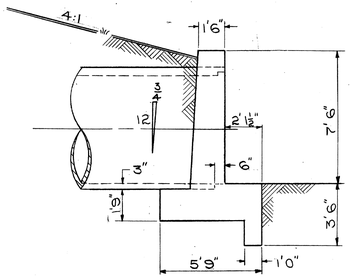
8 4 0 4 8 16 12 8 4 0 4 8 12 16

CROSS SECTIONS STA. 625+34 - STA. 647+64

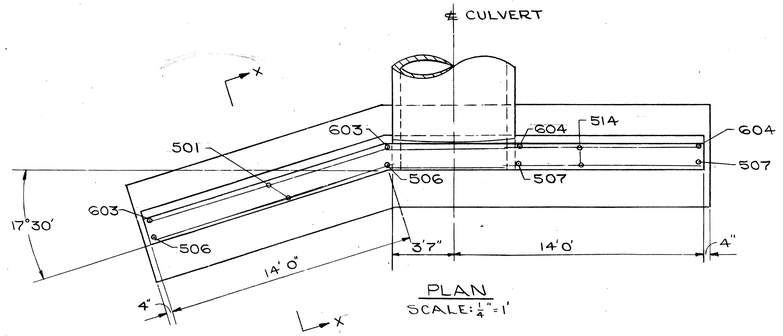
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

114/189

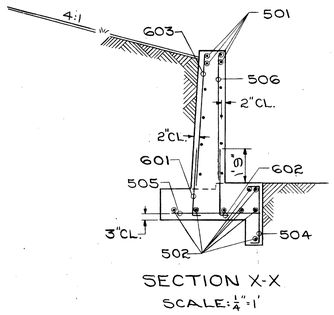
MED-I-10.09



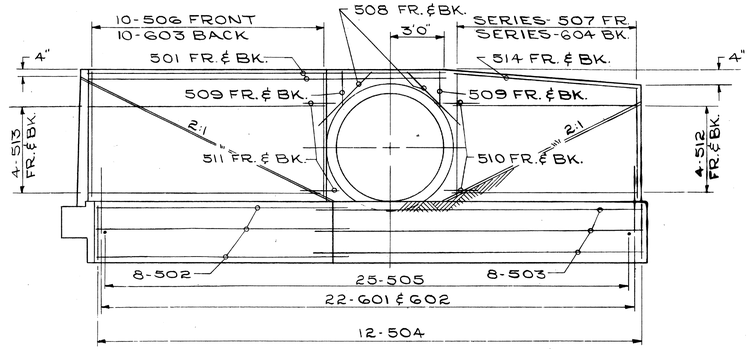
ELEVATION
SCALE: 1/4" = 1'



PLAN
SCALE: 1/4" = 1'



SECTION X-X
SCALE: 1/4" = 1'



HEADWALL ELEVATION
SCALE: 1/4" = 1'

HEADWALL DETAIL – 72" CULVERT
(STA. 647+64)

REINFORCING

TYPE 1: B | A | B
TYPE 2: A | B
TYPE 3: A | B | C

	MARK	QUANT.	SPACE	TYPE	LENGTH	A	B	C	TOTAL WEIGHT
	501	4		3	20'5"	13'10"	6'7"	1'11"	85
	502	8		STR.	15'4"				128
	503	8		STR.	19'1"				159
	504	12	36"	1	4'3"	3'1"	8"		53
	505	25	16"	STR.	5'5"				141
	506	10	16"	STR.	7'2"				75
	507	9	16"	STR.	6'4" TO 7'1" INC. OF 1⅛"				63
	508	4		STR.	6'6"				27
	509	4		STR.	1'8"				7
	510	4		STR.	2'6"				10
	511	4		3	2'5"	1'8"	9"	2½"	10
	512	8	18"	STR.	10'1"				84
CULVERT AT STATION 647+64 DIA.=72"	513	8	18"	STR.	13'8"				114
	514	2		STR.	10'9"				22
							#5	TOTAL	978#
	601	22	18"	2	4'5"	3'6"	1'0"		146
	602	22	18"	2	3'11"	3'6"	6"		129
	603	10	18"	STR.	7'5				111
	604	8	18"	STR.	6'4" TO 7'1" INC. OF 1⅛"				81
							#6	TOTAL	467#

GENERAL NOTES

USE CLASS "C" CONCRETE

$f'c$ = 3400 #/□"

f_s = 20,000 #/□"

p = 35 #/cu.ft.

MAX Sa.1 PRESSURE OT
Toe. = 2000#/□'

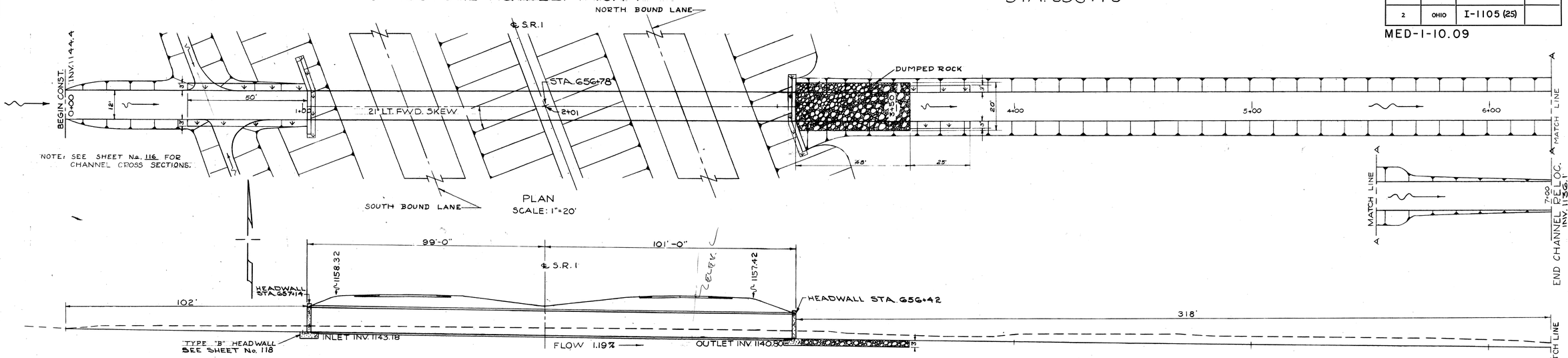
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

115
189

MED-I-10.09

STRUCTURE No. MED.-I-10.77

STA. 656+78



AREA = 1053 ACRES
Q_{50} = 600 CFS

HW_{50} = 3.0 FT.
V_h = 14.2 F.P.S.

CULVERT DATA

TYPE: CMP CULVERT M6.4(g) GA. 8-7
SIZE: 120"x 200'-0"
SKEW: 21° LT. FWD.
WORK REQUIRED: BUILD NEW 120"x 200'0" C.M.P. CULVERT AS SHOWN.

656+78
CROSS SECTION
SCALE: 1"=20'

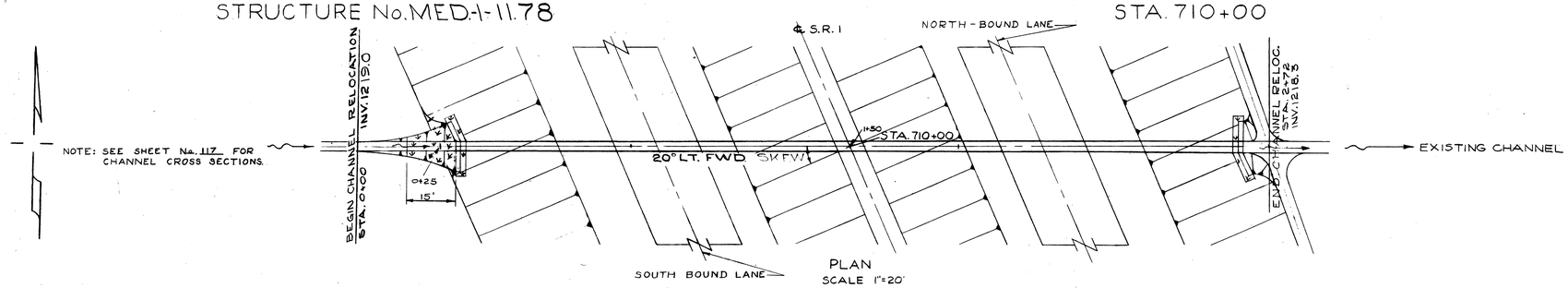
LISTED IN COLUMN-19 ON SHEET No. 12

ESTIMATED QUANTITIES

E-2	EXCAVATION FOR STRUCTURES	56 C.Y.
E-3	CHANNEL EXCAVATION	1357 C.Y.
I-10	DUMPED ROCK CHANNEL PROTECTION	107 C.Y.
L-10	SODDING	70 S.Y.
S-1	CONCRETE FOR STRUCTURES, CLASS "C"	133 C.Y.
S-4	REINFORCING STEEL	9,386 LBS.
S-28	120" PIPE FOR ROADWAY CULVERT	200 LIN. FT.

STRUCTURE No. MED.-I-11.78

STA. 710+00



HW_{50} = 4.6 FT.
V_h = 5.2 F.P.S.

AREA = 21 ACRES
Q_{50} = 63 C.F.S.

CULVERT DATA

TYPE: STD. PIPE CULVERT M6.6(b)
SIZE: 42"x 232'-0"
SKEW: 20°-0' LT. FWD.
WORK REQUIRED: BUILD NEW 42"x 232'0" STD. PIPE CULVERT AS SHOWN.

710+00
CROSS SECTION
SCALE: 1"=20'

LISTED IN COLUMN-24 ON SHEET No. 12

ESTIMATED QUANTITIES

E-2	EXCAVATION FOR STRUCTURE	21 C.Y.
E-3	CHANNEL EXCAVATION	1 C.Y.
I-10	DUMPED ROCK CHANNEL PROTECTION	0 C.Y.
L-10	SODDING	24 S.Y.
S-1	CONCRETE FOR STRUCTURES, CLASS "C"	21 C.Y.
S-4	REINFORCING STEEL	1312 LBS.
S-27	42" PIPE FOR ROADWAY CULVERTS M-6.6(b),	232 LIN. FT.

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

MED.-1-10.09

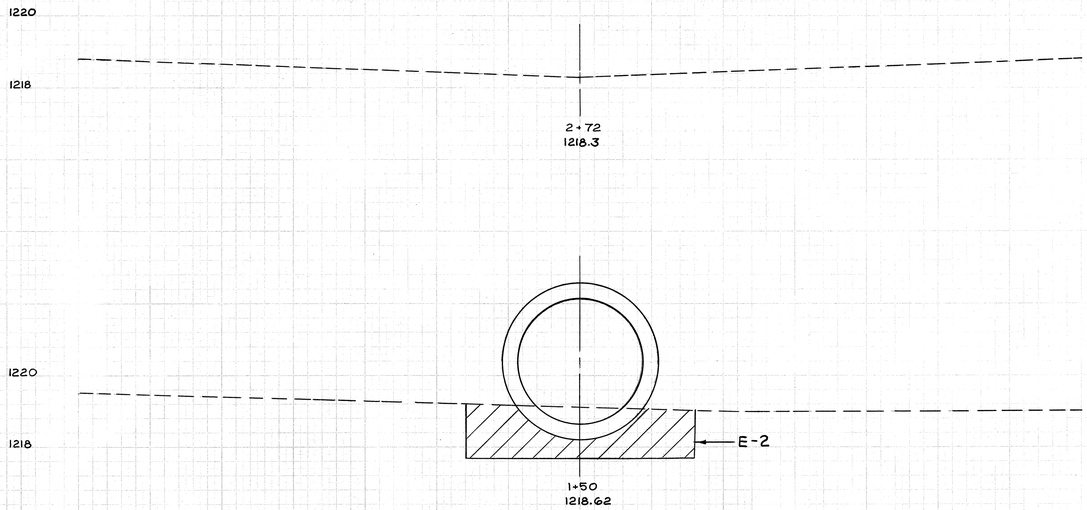
SEE SHEET No. 115
FOR PLAN VIEW.

CHANNEL CROSS SECTIONS
STA. 656+78
SCALE: 1"=2'0"

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

117
189

MED.-I-10.09



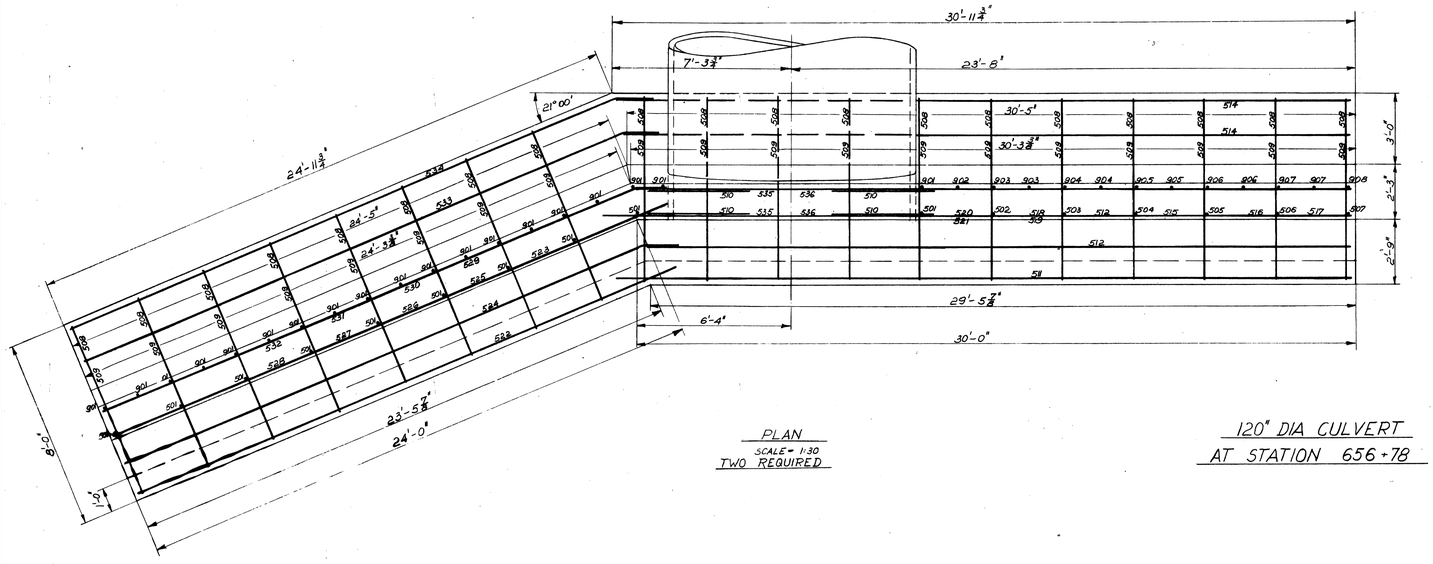
CHANNEL CROSS SECTIONS
STA. 710+00
SCALE: 1"=2'0"

SEE SHEET No. 115
FOR PLAN VIEW.

FED. RD.	STATE	PROJECT		
2	OHIO	I-1105 (25)		

118/189

MED-I-10.09

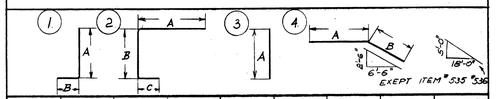


PLAN
SCALE = 1:30
TWO REQUIRED

120" DIA CULVERT
AT STATION 656+78

QUANTITIES FOR ONE HEADWALL

REINFORCING



MARK	QUANT.	SPACE	TYPE	LENGTH	A	B	C	WEIGHT
501	10	3'-0"	3	11'-10"	11'-10"			124
502	1	3'-0"	3	10'-8"	10'-8"			12
503	1	3'-0"	3	9'-10"	9'-10"			11
504	1	3'-0"	3	9'-0"	9'-0"			10
505	1	3'-0"	3	8'-2"	8'-2"			9
506	1	3'-0"	3	7'-4"	7'-4"			8
507	1	3'-0"	3	6'-11"	6'-11			8
508	19	3'-0"	2	11'-5"	7'-8"	3'-1"	8"	226
509	19	3'-0"	3	6'-6"	6'-6"			129
510	8		3	6'-2"	6'-2"			52
511	3	1'-6"	3	31'-0"	31'-0"			99
512	4	1'-4"	3	29'-9"	29'-9"			124
513	2		3	30'-3"	30'-3"			64
514	3		3	30'-9	30'-9"			97
515	2	10"	3	21'-0"	21'-0"			44
516	2	10"	3	19'-10"	19'-10"			41
517	14	10"	3	18'-3"	18'-3"			267
518	2	10"	3	14'-0"	14'-0"			30
519	2	10"	3	10'-10"	10'-10"			23
520	2	10"	3	10'-0"	10'-0"			21
521	2	10"	3	16'-2"	16'-2"			34
522	3	1'-6"	3	24'-9"	24'-9"			78
523	12	10"	3	25'-4"	25'-4"			318
524	2		4	24'-8"	23'-8"	1'-0"		52
525	2		4	25'-0"	24'-0"	1'-0"		53
526	1		4	28'-0"	24'-0"	4'-0"		30
527	1		4	26'-6"	26'-6"	2'-6"		28
528	1		4	27'-0"	24'-0"	3'-0"		29
529	14	10"	4	25'-9"	24'-6"	1'-3"		376
530	1	10"	4	28'-10"	24'-7"	4'-3"		30
531	1	10"	4	27'-4"	24'-7"	2'-9"		29
532	1	10"	4	27'-9"	24'-6"	3'-3"		29
533	2		4	25'-9"	24'-9	1'-0"		54
534	1		4	26'-0"	25'-0"	1'-0"		28
535	2		4	14'-6"	12'-0"	2'-6"		31
536	2		4	30'-5"	12'-0"	18'-5"		64
537	16	3'-0"	1	5'-0"	3'-7"	1'-6"		84
							TOTAL:	2744 #
901	19	1'-6"	3	11'-10"	11'-10"			760
902	1	1'-6"	3	11'-6"	11'-6"			39
903	2	1'-6"	3	10'-8"	10'-8"			72
904	2	1'-6"	3	9'-10"	9'-10"			67
905	2	1'-6"	3	9'-0"	9'-0"			61
906	2	1'-6"	3	8'-2"	8'-2"			56
907	2	1'-6"	3	7'-4"	7'-4"			50
908	1	1'-6"	3	6'-11"	6'-11"			24
909	31	1'-6"	1	7'-10"	5'-6"	2'-5"		820
							TOTAL:	1949 #
				TOTAL	REINFORCING	STEEL:		4693 #

GENERAL NOTES

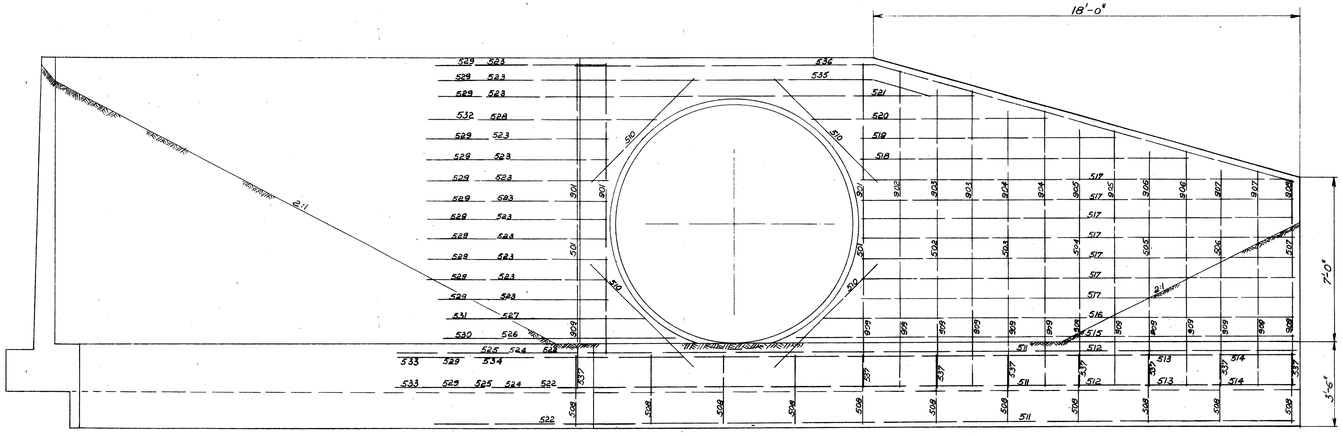
USE CLASS 'C' CONCRETE

f'c = 3400 #/□"

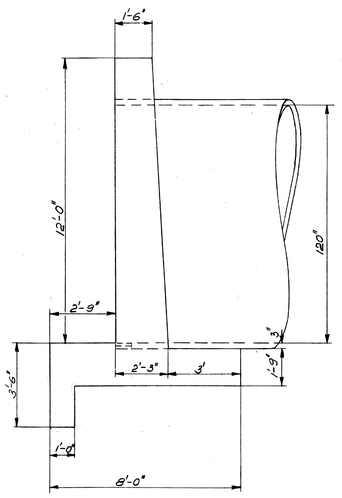
fs = 20,000 #/□"

p = 35 #/cu.ft.

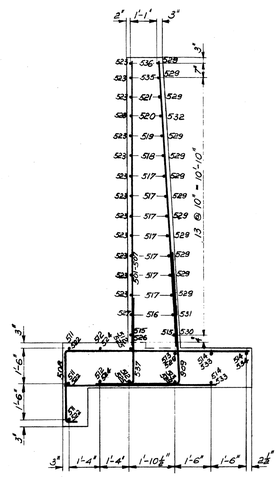
MAX So. 1 PRESSURE OT Toe. = 2000 #/□'



HEADWALL ELEVATION — 120" DIA CULVERT
SCALE = 1:30



ELEVATION
SCALE = 1:30



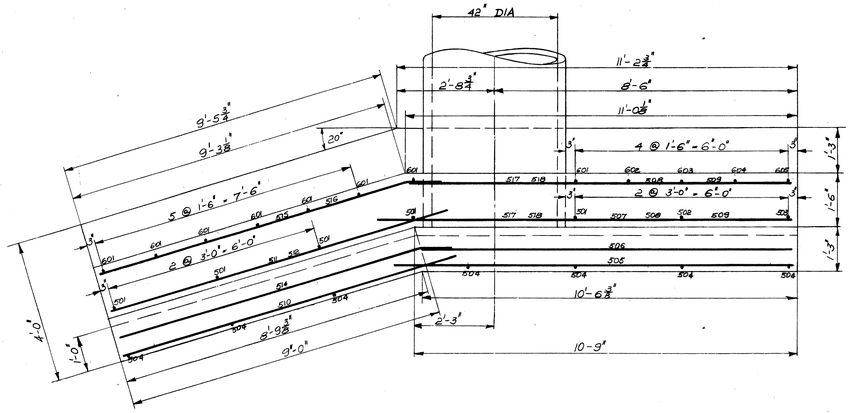
SECTION
SCALE = 1:30

HEADWALL DETAILS STA. 656+78

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

119
189

MED-1-10.09

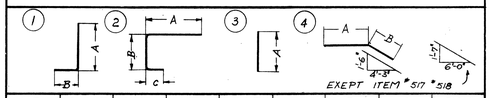


PLAN
SCALE = 1/2" = 1'-0"
2 REQUIRED

42" DIA CULVERT
AT STATION 710+00

QUANTITIES FOR ONE HEADWALL

REINFORCING



MARK	QUANT	SPACE	TYPE	LENGTH	A	B	C	WEIGHT
501	5	3'-0"	1	6'-11"	6'-2	10"		36
502	1	3'-0"	1	6'-2"	5'-5"	10"		7
503	1	3'-0"	1	5'-4"	4'-7"	10"		6
504	7	3'-0"	2	5'-0"	1'-5"	3'-1"	8"	37
505	3	1'-6"	3	11'-2"	11'-2			35
506	2		3	10'-5"	10'-5			22
507	1		3	1'-8"	11-8"			13
508	10	8"	3	6'-2"	6'-2"			65
509	2	8"	3	3'-2"	3'-2"			7
510	3	1'-6"	3	9'-9"	9'-9"			31
511	6	8"	3	9'-0"	9'-0"			57
512	3	8"	3	9'-11"	9'-11"			32
513	1		3	10'-9"	10'-9"			12
514	2		4	9'-10"	8'-10"	1'-0"		21
515	6	8"	4	9'-5"	9'-1"	4"		59
516	3	8"	4	10'-1	9'-1"	1'-0"		32
517	2		4	5'-9"	3'-0"	2'-9"		12
518	2		4	10'-11"	4'-10"	6'-1"		23
							TOTAL:	507#
601	8	1'-6"	1	8'-5"	6'-2"	2'-4"		102
602	1	1'-6"	1	8'-1"	5'-10"	2'-4"		13
603	1	1'-6"	1	7'-8"	5'-5"	2'-4"		12
604	1	1'-6"	1	7'-3"	5'-0"	2'-4"		11
605	1	1'-6"	1	6'-10"	4'-7"	2'-4"		11
							TOTAL:	149#
				TOTAL	REINFORCING	STEEL		656#

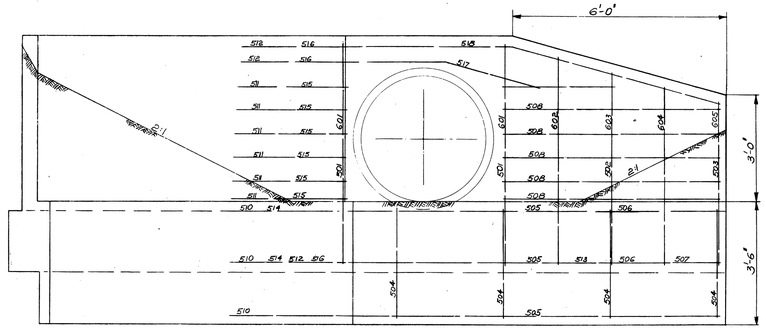
11.1 CU. YDS. CONCRETE PER HEADWALL.

GENERAL NOTES

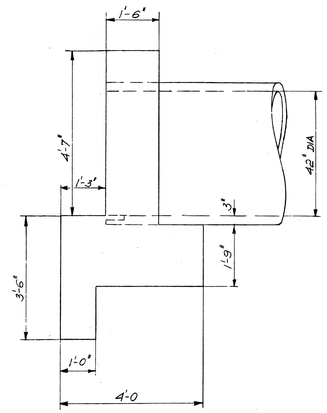
USE CLASS 'C' CONCRETE

f'c = 3400 fs=20,000 p = 35 #/cu. ft.

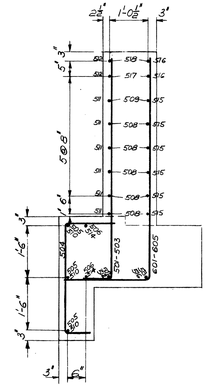
MAX. So.l BEARING PRESSURE AT Toe = 2000 #/s'



HEADWALL ELEVATION — 42" DIA CULVERT
SCALE = 1/2" = 1'-0"



ELEVATION
SCALE = 1/2" = 1'-0"



SECTION
SCALE = 1/2" = 1'-0"

HEADWALL DETAILS STA. 710+00

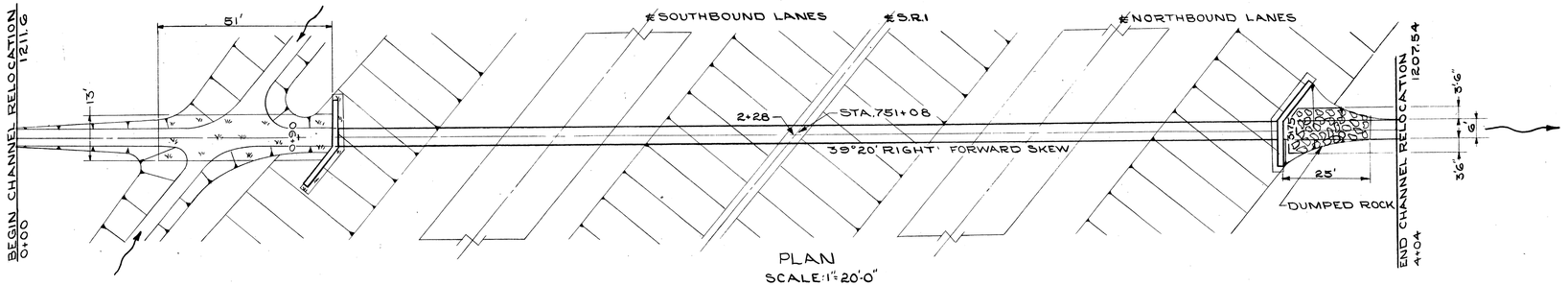
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

120
189

MED.-1-10.09

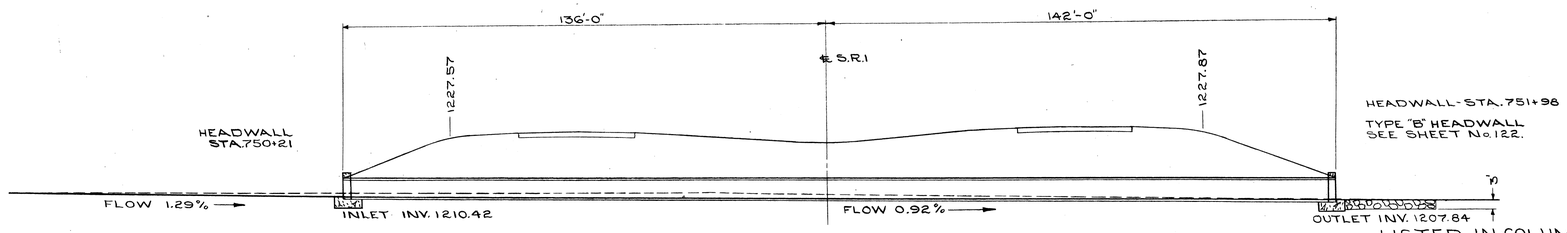
STRUCTURE No. MED.-1-12.56

STA. 751+08



PLAN
SCALE: 1"=20'-0"

SEE SHEET No. 121
FOR CROSS SECTIONS.



751+08
CROSS SECTION
SCALE: 1"=20'-0"

	M6.6(b)	M6.4(g)
HW_{50} =	5.9 FT.	6.2 FT.
V_n =	14.0 F.P.S.	10.0 F.P.S.

AREA = 106 ACRES
Q_{50} = 169 C.F.S.

CULVERT DATA

TYPE: STANDARD PIPE CULVERT M6.6(b) M6.4(g) GA.10-10
SIZE: 60"x278'-0"
SKEW: 39°20' RIGHT FORWARD
WORK REQUIRED: BUILD NEW 60"x278'-0 STANDARD PIPE CULVERT AS SHOWN.

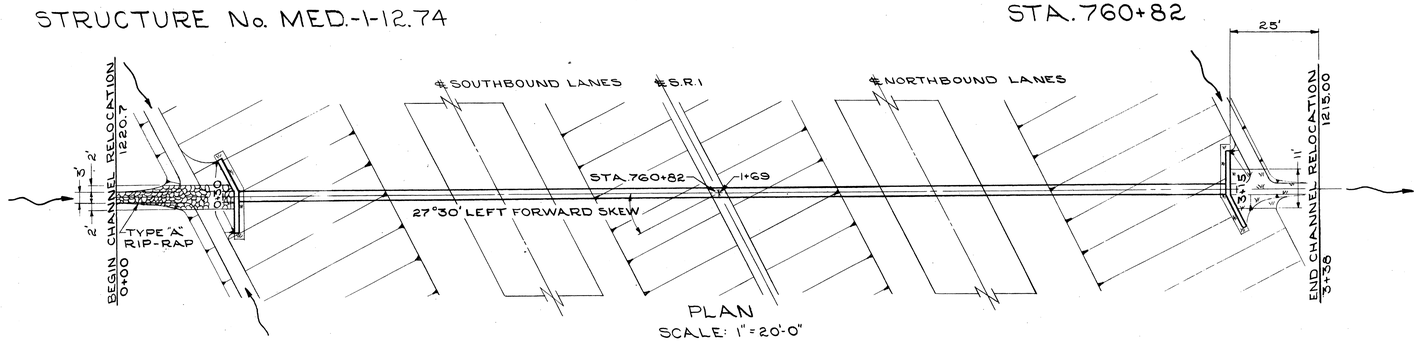
LISTED IN COLUMN-28 ON SHEET No. 12

ESTIMATED QUANTITIES

E-2	EXCAVATION FOR STRUCTURES	18 CU.YDS.
E-3	CHANNEL EXCAVATION	201 CU.YDS.
I-10	DUMPED ROCK FOR CHANNEL PROTECTION	28 CU.YDS.
L-10	SODDING	94 SQ.YDS.
S-1	CONCRETE FOR STRUCTURES CLASS "C"	44.4 CU.YDS.
S-4	REINFORCING STEEL	2448 LBS.
S-27	60" PIPE FOR ROADWAY CULVERTS	278 L.F.

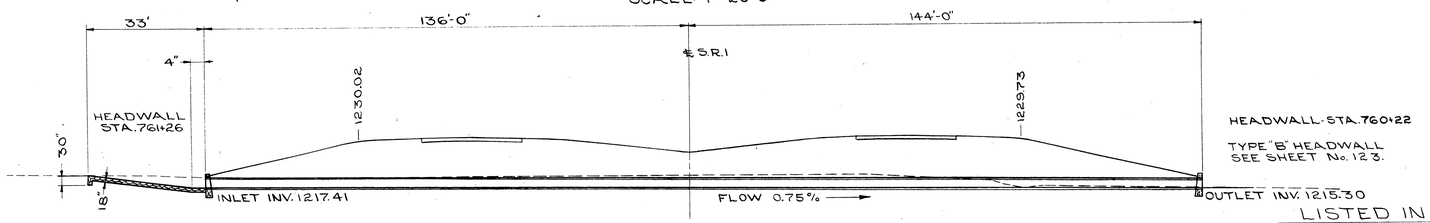
STRUCTURE No. MED.-1-12.74

STA. 760+82



PLAN
SCALE: 1" = 20'-0"

SEE SHEET No. 121
FOR CROSS SECTIONS.



760+82
CROSS SECTION
SCALE: 1"=20'-0"

HW_{50} = 2.9 FT.
V_n = 7.7 F.P.S.

AREA = 10 ACRES
Q_{50} = 33 C.F.S.

CULVERT DATA

TYPE: STANDARD PIPE CULVERT M6.6(b) M6.8(b)
SIZE: 30"x280'-0"
SKEW: 27°30' LEFT FORWARD
WORK REQUIRED: BUILD NEW 30"x280'-0" STANDARD PIPE CULVERT.

LISTED IN COLUMN-29 ON SHEET No. 12

ESTIMATED QUANTITIES

E-2	EXCAVATION FOR STRUCTURES	186 CU.YDS.
E-3	CHANNEL EXCAVATION	81 CU.YDS.
I-10	TYPE "A" RIP-RAP	57 SQ.YDS.
L-10	SODDING	55 SQ.YDS.
S-1	CONCRETE FOR STRUCTURES CLASS "C"	7.4 CU.YDS.
S-4	REINFORCING STEEL	560 LBS.
S-27	30" PIPE FOR ROADWAY CULVERTS	280 L.F.

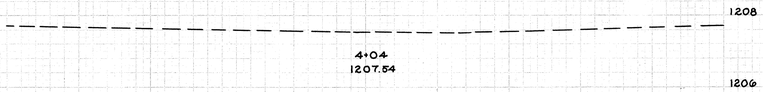
REVISED: 31 MAR. '58

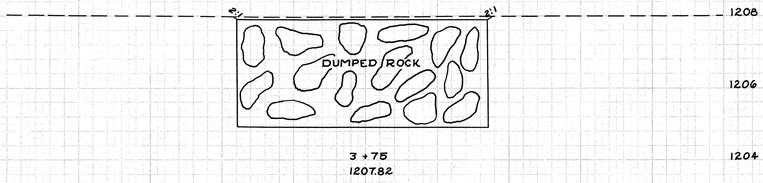
CULVERT DETAILS- STA. 751+08 - STA. 760+82

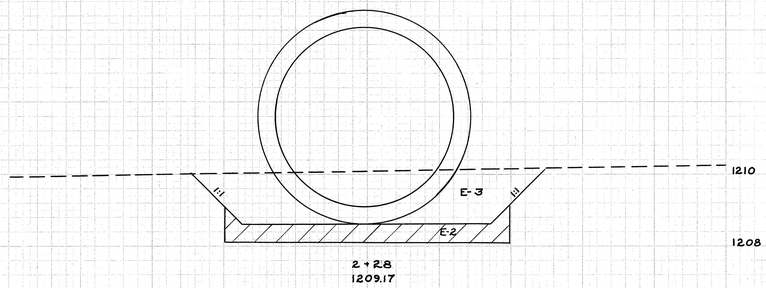
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

121
189

MED-I-10.09

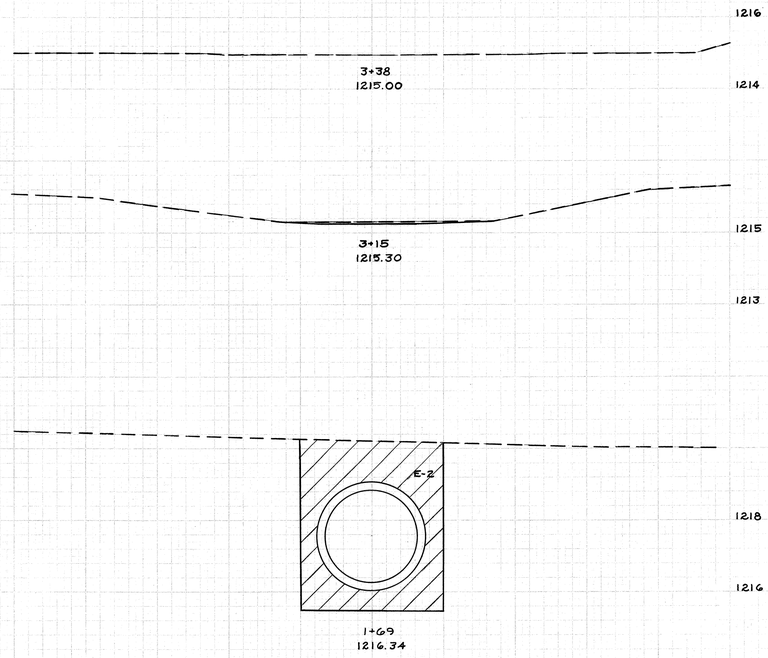


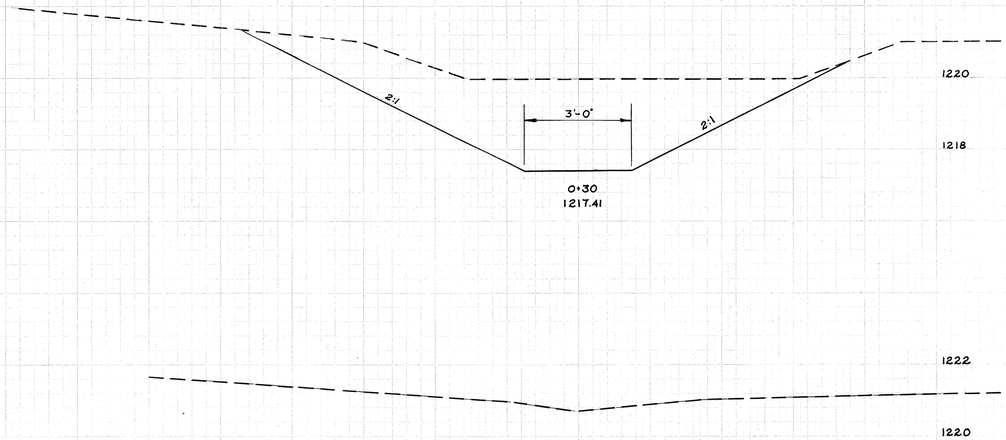




SEE SHEET No. 120
FOR PLAN VIEW.

CHANNEL CROSS SECTIONS
STA. 751+08
SCALE: 1"=2'0"





SEE SHEET No. 120
FOR PLAN VIEW.

CHANNEL CROSS SECTIONS
STA. 760+82
SCALE: 1"=2'0"

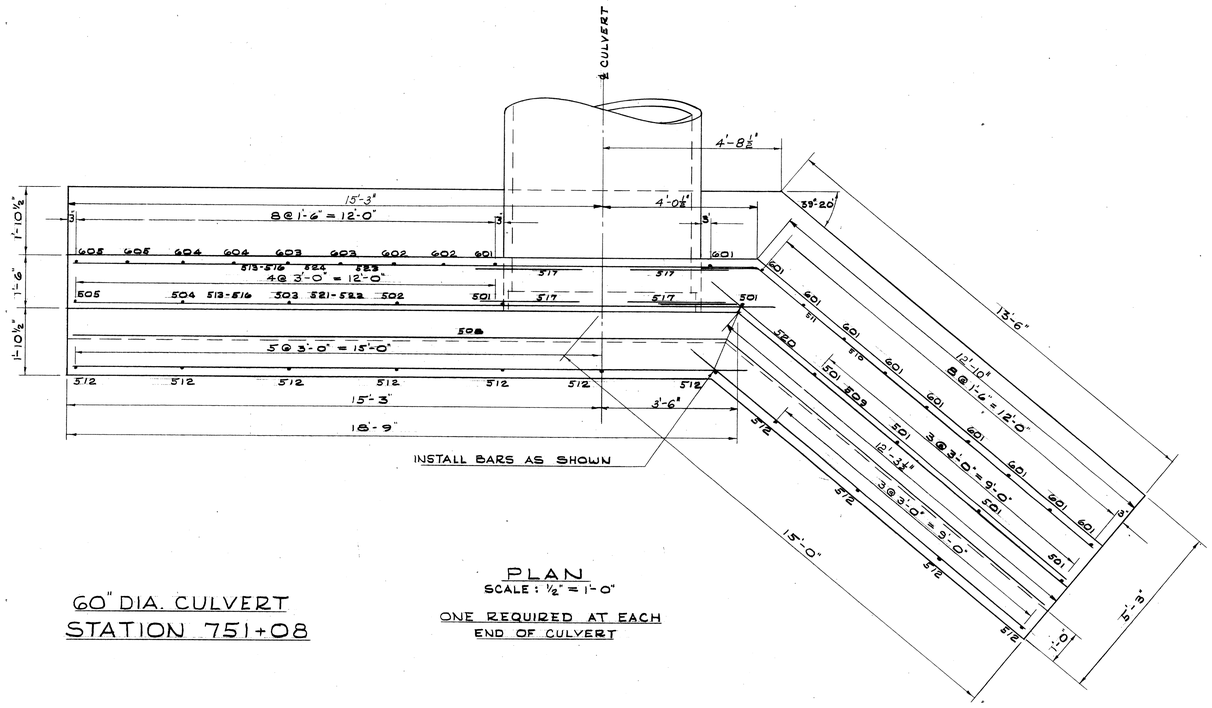
12 8 4 E 4 8 12

Cross Sections Sta. 751+08 - Sta. 760+82

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

122/189

MED-1-10.09

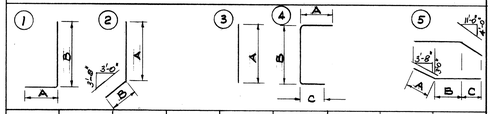


PLAN
SCALE : ½" = 1'-0"
ONE REQUIRED AT EACH END OF CULVERT

60" DIA. CULVERT
STATION 751+08

QUANTITIES FOR ONE HEADWALL

REINFORCING BARS



MARK	No.	SPACE	TYPE	LENGTH	A	B	C	WEIGHT
501	6	3'-0"	1	9'-4"	1'-0"	8'-4"		59
502	1	3'-0"	1	8'-4"	1'-0"	7'-4"		9
503	1	3'-0"	1	7'-5"	1'-0"	6'-5"		8
504	1	3'-0"	1	6'-6"	1'-0"	5'-6"		7
505	1	3'-0"	1	5'-8"	1'-0"	4'-8"		6
506	1		2	31'-6"	19'-2"	12'-4"		33
507	1		2	30'-7"	18'-9"	11'-10"		32
508	2		2	29'-11"	18'-4"	11'-7"		63
509	2	9"	2	14'-1"	2'-3"	11'-10"		30
510	2	9"	2	15'-0"	12'-4"	2'-8"		32
511	6	9"	2	13'-7"	12'-4"	1'-3"		86
512	11	3'-0"	4	5'-8"	1'-11"	3'-1"	8"	66
513	2	9"	3	13'-3"	13'-3"			28
514	8	9"	3	12'-3"	12'-3"			103
515	2	9"	3	6'-7"	6'-7"			14
516	2	9"	3	6'-0"	6'-0"			13
517	8	.	3	4'-0"	4'-0"			34
518	3	1'-6"	3	12'-2"	12'-2"			39
519	3	1'-6"	3	19'-0"	19'-0"			60
520	8	9"	3	13'-2"	13'-2"			112
521	1		2	10'-9"	8'-0"	2'-9"		12
522	1		2	20'-3"	8'-0"	12'-3"		22
523	1		5'	22'-3"	12'-4"	7'-2"	2'-9"	24
524	1		5'	33'-9"	12'-4"	7'-2"	12'-3"	36
							TOTAL:	928#
601	11	1'-6"	1	11'-4"	3'-0"	8'-4"		187
602	2	1'-6"	1	10'-4"	3'-0"	7'-4"		31
603	2	1'-6"	1	9'-5"	3'-0"	6'-5"		29
604	2	1'-6"	1	8'-6"	3'-0"	5'-6"		26
605	2	1'-6"	1	7'-8"	3'-0"	4'-8"		23
							TOTAL:	296#
				TOTAL	REINFORCING	STEEL:		1224#

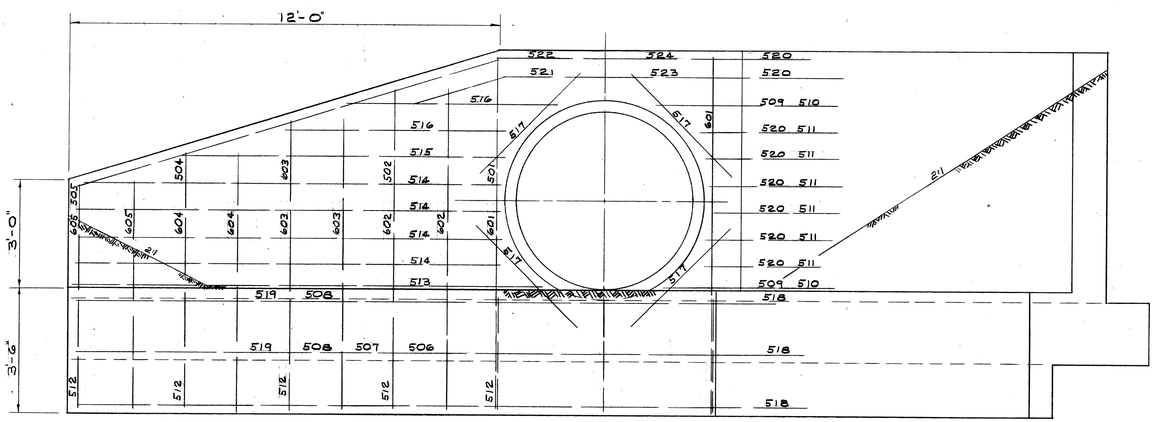
222 CU. YDS. CONCRETE PER HEADWALL

GENERAL NOTES

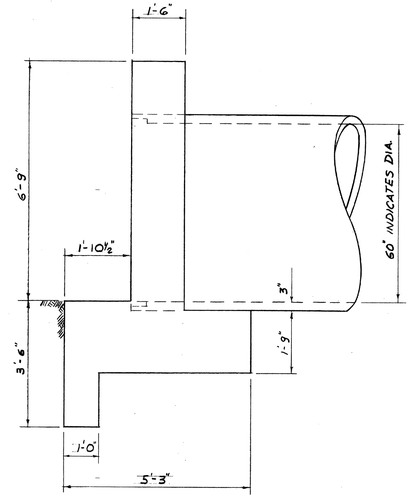
USE CLASS 'C' CONCRETE

fc-3400 fs-20,000 p - 35 #/cu.ft.

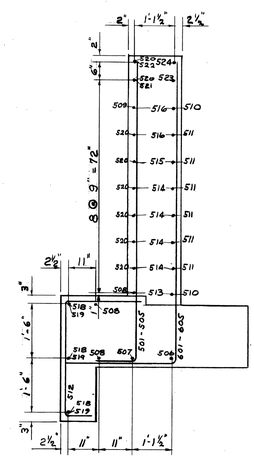
MAX So.1 BEARING PRESSURE AT Toe = 2000 #/d



HEADWALL ELEVATION — 60" DIA. CULVERT
SCALE : ½" = 1'-0"



ELEVATION
SCALE: ½"=1'-0"

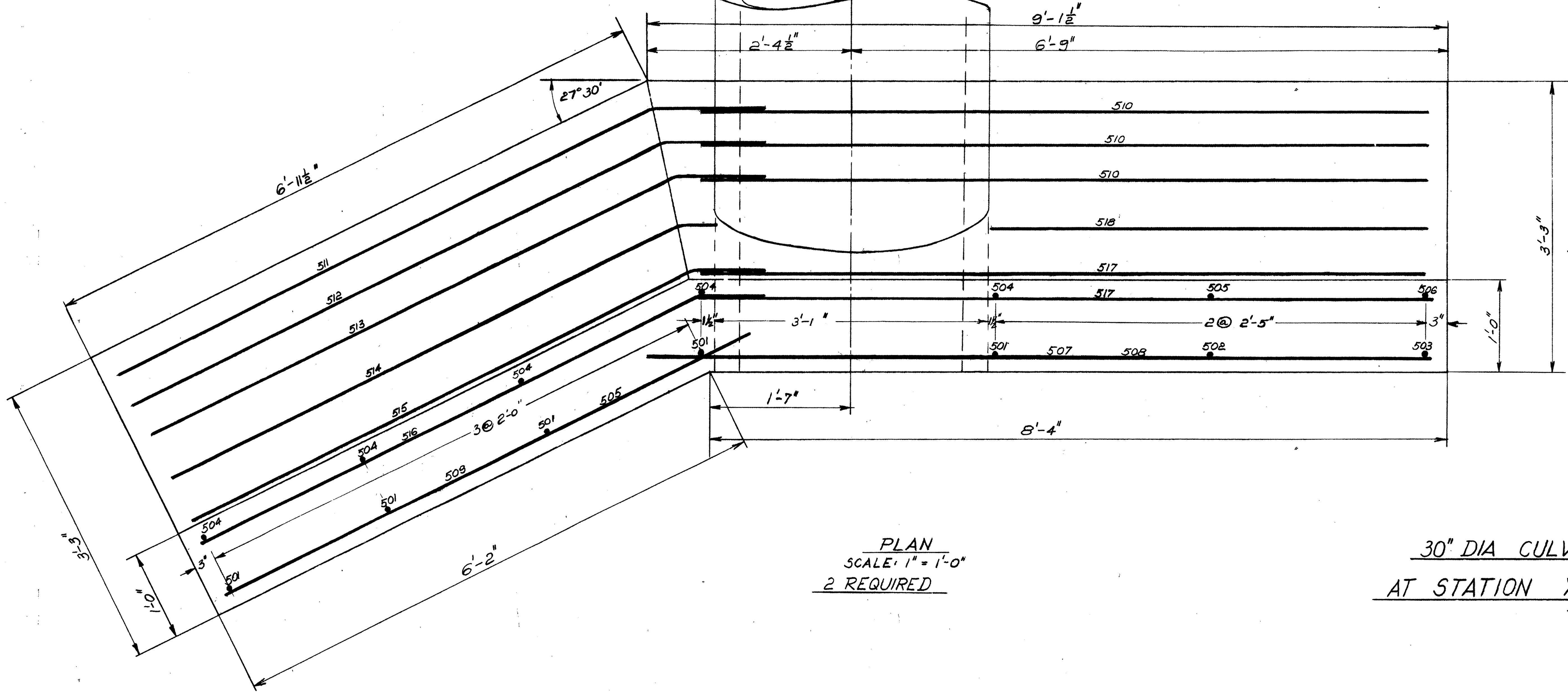


SECTION
SCALE : ½" = 1'-0"

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

123
189

MED-1-10.09

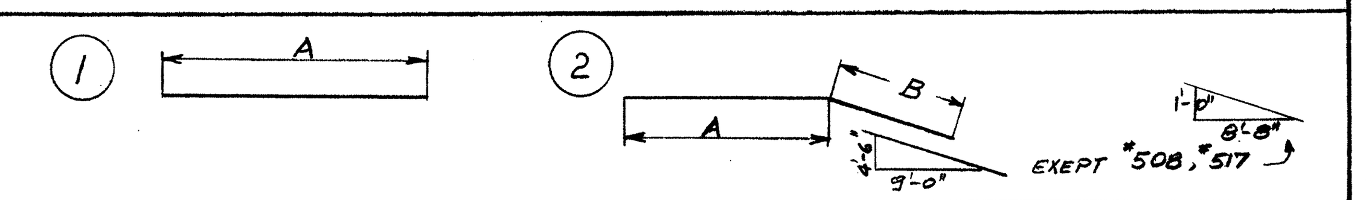


PLAN
SCALE: 1" = 1'-0"
2 REQUIRED

30" DIA CULVERT
AT STATION 760+82

QUANTITIES FOR ONE HEADWALL

REINFORCING



MARK	QUANT	SPACE	TYPE	LENGTH	A	B	WEIGHT
501	5	2'-0"	1	6'-3"	6'-3"		33
502	1		1	6'-0"	6'-0"		7
503	1		1	5'-9"	5'-9"		6
504	5	2'-0"	1	6'-7"	6'-7"		35
505	2		1	6'-5"	6'-5"		14
506	1		1	6'-2"	6'-2"		7
507	3		1	8'-10"	8'-10"		28
508	2		2	8'-9"	4'-0"	4'-9"	19
509	5		1	6'-7"	6'-7"		35
510	3		1	8'-3"	8'-3"		26
511	1		2	8'-0"	6'-9"	1'-3"	9
512	1		2	7'-10"	6'-8"	1'-2"	9
513	1		2	7'-7"	6'-6"	1'-1"	8
514	1		2	6'-11"	6'-5"	6"	8
515	1		2	7'-1"	6'-3"	10"	8
516	1		2	7'-0"	6'-3"	9"	8
517	2		2	8'-2"	4'-0"	4'-2"	17
518	2		1	4'-9"	4'-9"		10
					LEFT	TOTAL:	287#

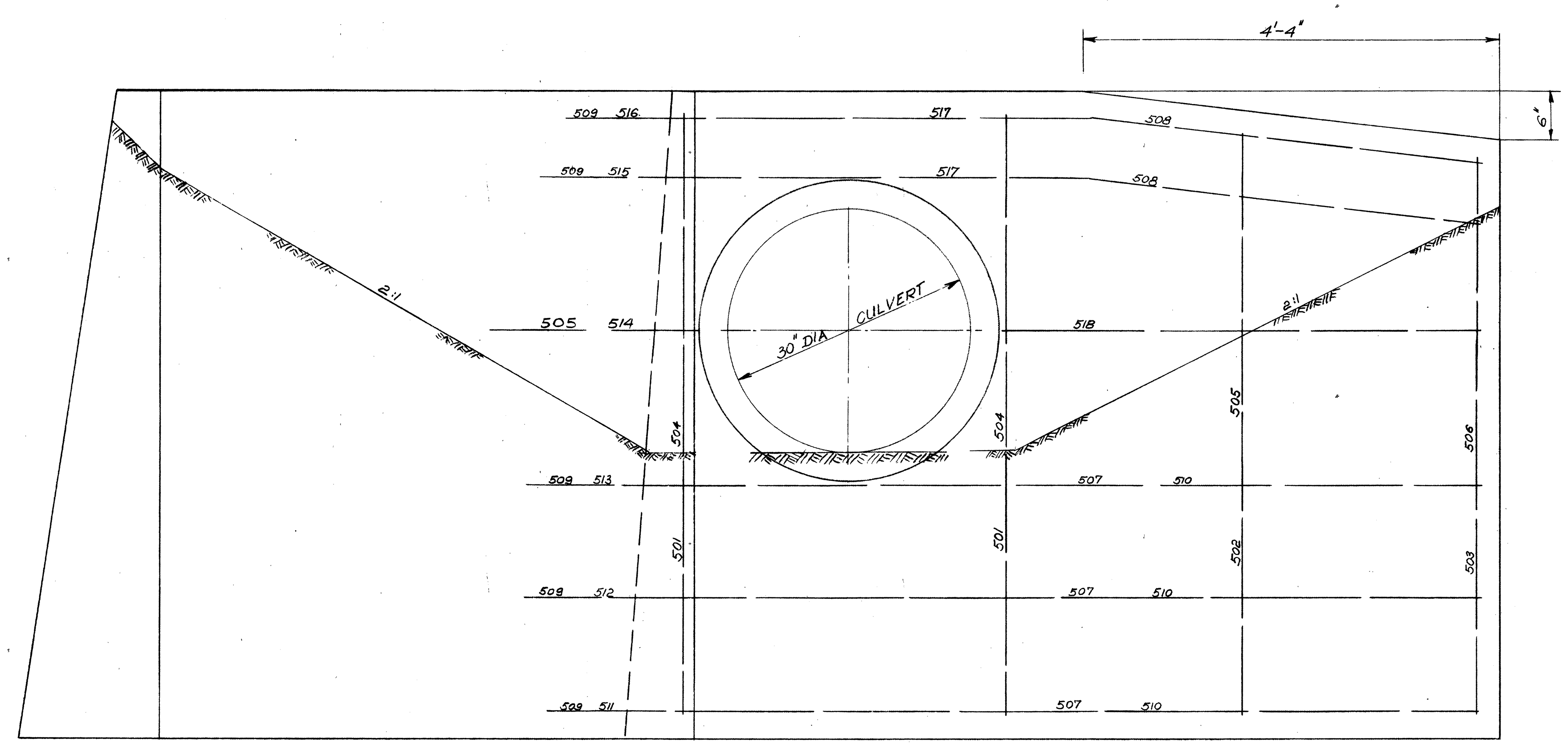
7.5 CU. YDS. CONCRETE PER HEADWALL

GENERAL NOTES

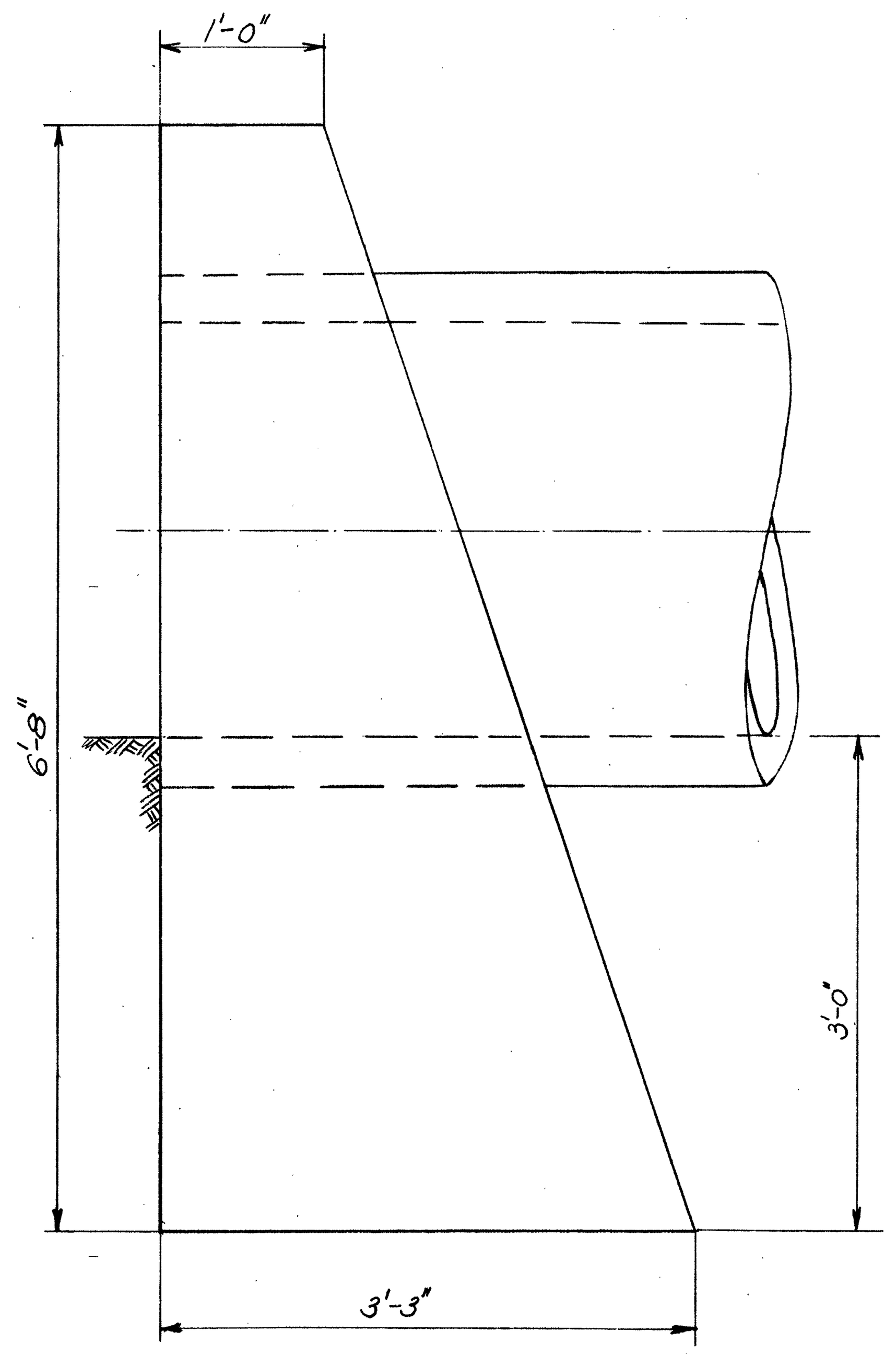
USE CLASS 'C' CONCRETE

f'c = 3400 fs = 20,000 p = 35#/cu.ft.

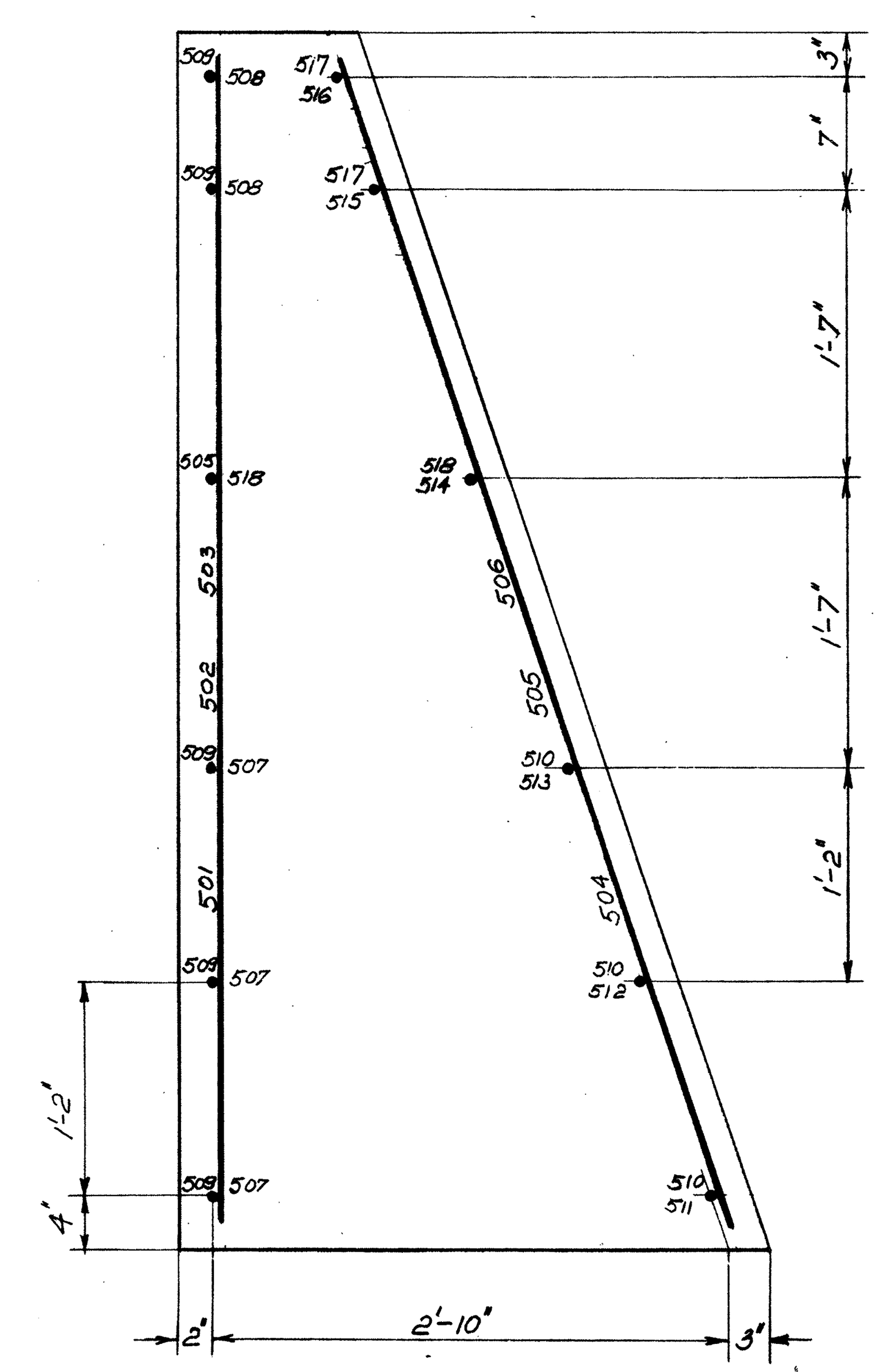
MAX So. I. BEARING PRESSURE AT Toe = 2000 #/□'



HEADWALL ELEVATION — 30" DIA CULVERT
SCALE = 1" = 1'-0"



ELEVATION
SCALE: 1" = 1'-0"



SECTION
SCALE: 1" = 1'-0"

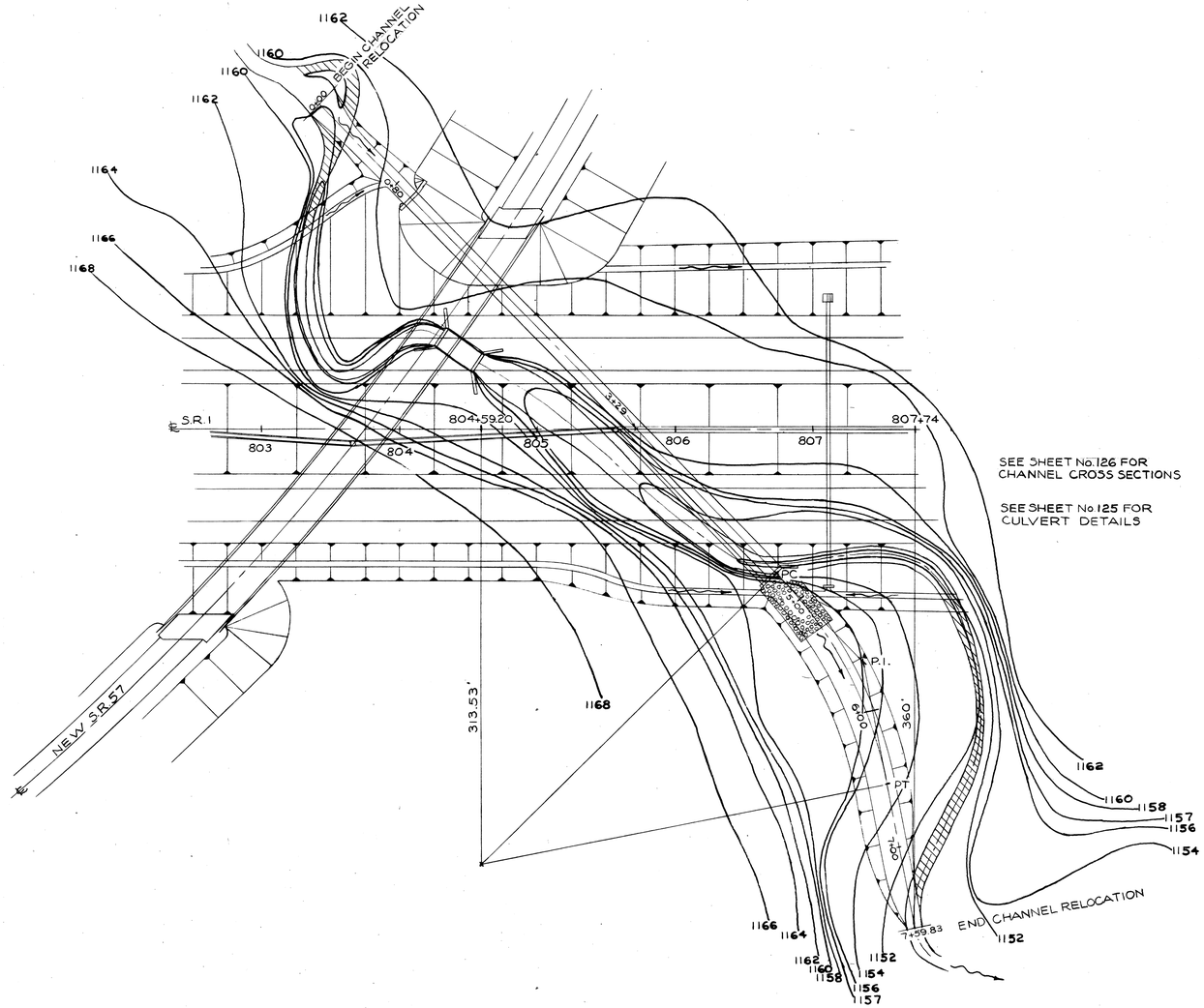
TO BE WORKED WITH SHEET #

HEADWALL DETAILS STA. 760+82

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

124
189

MED-1-10.09



SEE SHEET No.126 FOR CHANNEL CROSS SECTIONS

SEE SHEET No.125 FOR CULVERT DETAILS

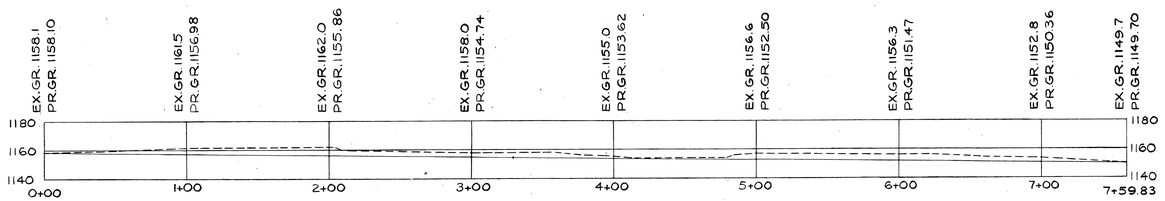
CHANNEL CURVE DATA

Δ - 33° 21' 00" R - 300.00'
D - 19° 05' 55" T - 89.86'
L - 174.62' E - 13.17'

PI - STA. 5+63.86
PC - STA. 4+74 = S.R.1 STA. 806+74
PT - STA. 6+53.73

DUMPED ROCK CHANNEL PROTECTION

EXISTING CHANNEL TO BE FILLED



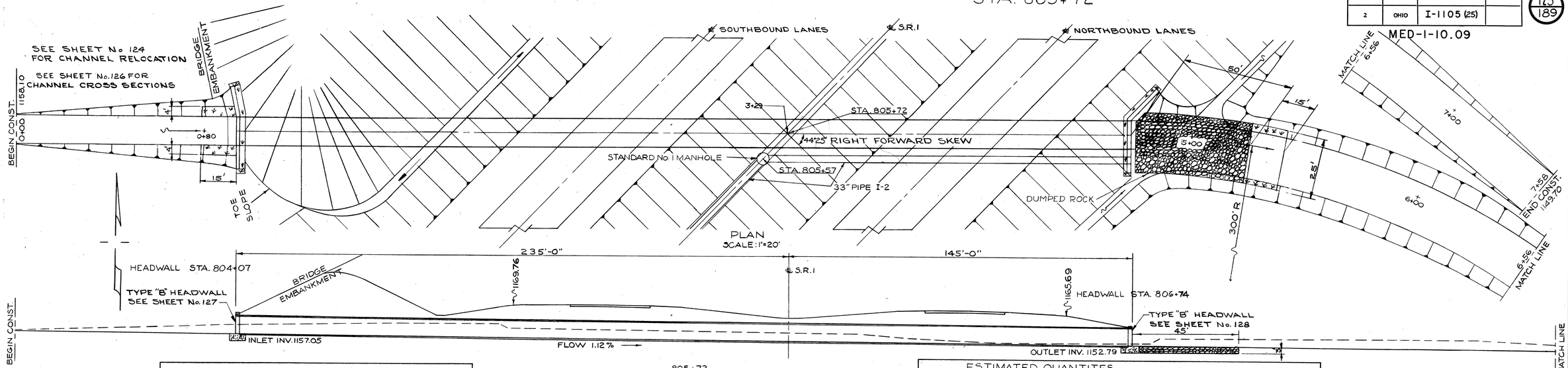
PROFILE
CHANNEL RELOCATION
STA. 805+72
SCALE: 1" = 50'

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

125
189

STRUCTURE No. MED.-1-13.59

STA. 805+72



AREA = 1200 ACRES
Q_{50} = 600 C.F.S.

HW_{50} = 7.4 FT.
V_n = 12.7 F.P.S.

CULVERT DATA

TYPE: C.M.P. ARCH M6.4(g)8-7 GA.
SIZE: 12'-6 "x 7'-11" x 380'-0"
SKEW: 44° 25' RT. FWD.
WORK REQUIRED: BUILD NEW 12'-6" x 7'-11" x 380'-0 C.M.P. ARCH CULVERT AS SHOWN.

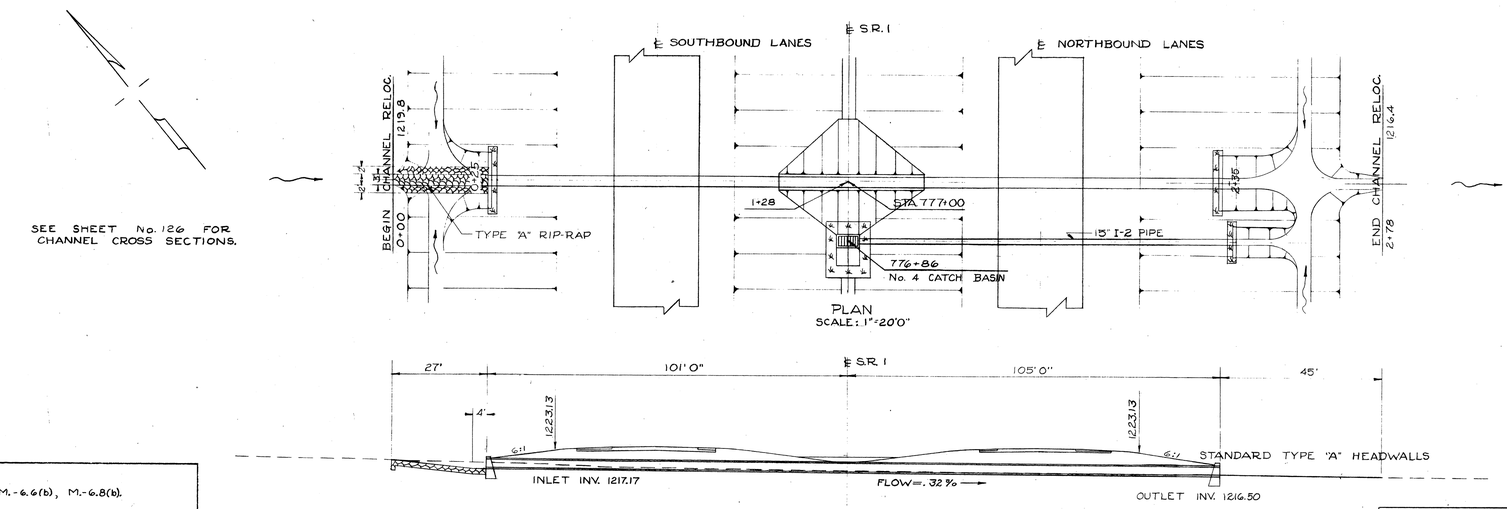
ESTIMATED QUANTITES

LISTED IN COLUMN Nº 34 ON SHEET Nº 12

E-2	EXCAVATION FOR STRUCTURES	125 CU. YDS
E-3	CHANNEL EXCAVATION	2836 CU. YDS
I-10	DUMPED ROCK CHANNEL PROTECTION	139 CU. YDS
L-10	SODDING	43 SQ. YDS
S-1	CONCRETE FOR STRUCTURES CLASS "C"	98 CU. YDS
S-4	REINFORCING STEEL	5158 LBS.
S-28	12'-6" x 7'-11" C.M.P. ARCH PIPE FOR ROADWAY CULVERT	380 L.F.

STRUCTURE No. MED.-1-13.05

STA. 777+00



AREA = 9 ACRES
Q_{50} = 27 C.F.S.

HW_{50} = 3.0 FT.
V_n = 6.1 F.P.S.

CULVERT DATA

TYPE: STANDARD PIPE CULVERT M.-6.6(b), M.-6.8(b).
SIZE: 30" x 206'0"
SKEW: NONE
WORK REQUIRED: BUILD NEW 30" x 206'0" STANDARD PIPE CULVERT AS SHOWN.

ESTIMATED QUANTITIES

LISTED UNDER COLUMN No. 31 ON SHEET No. 12

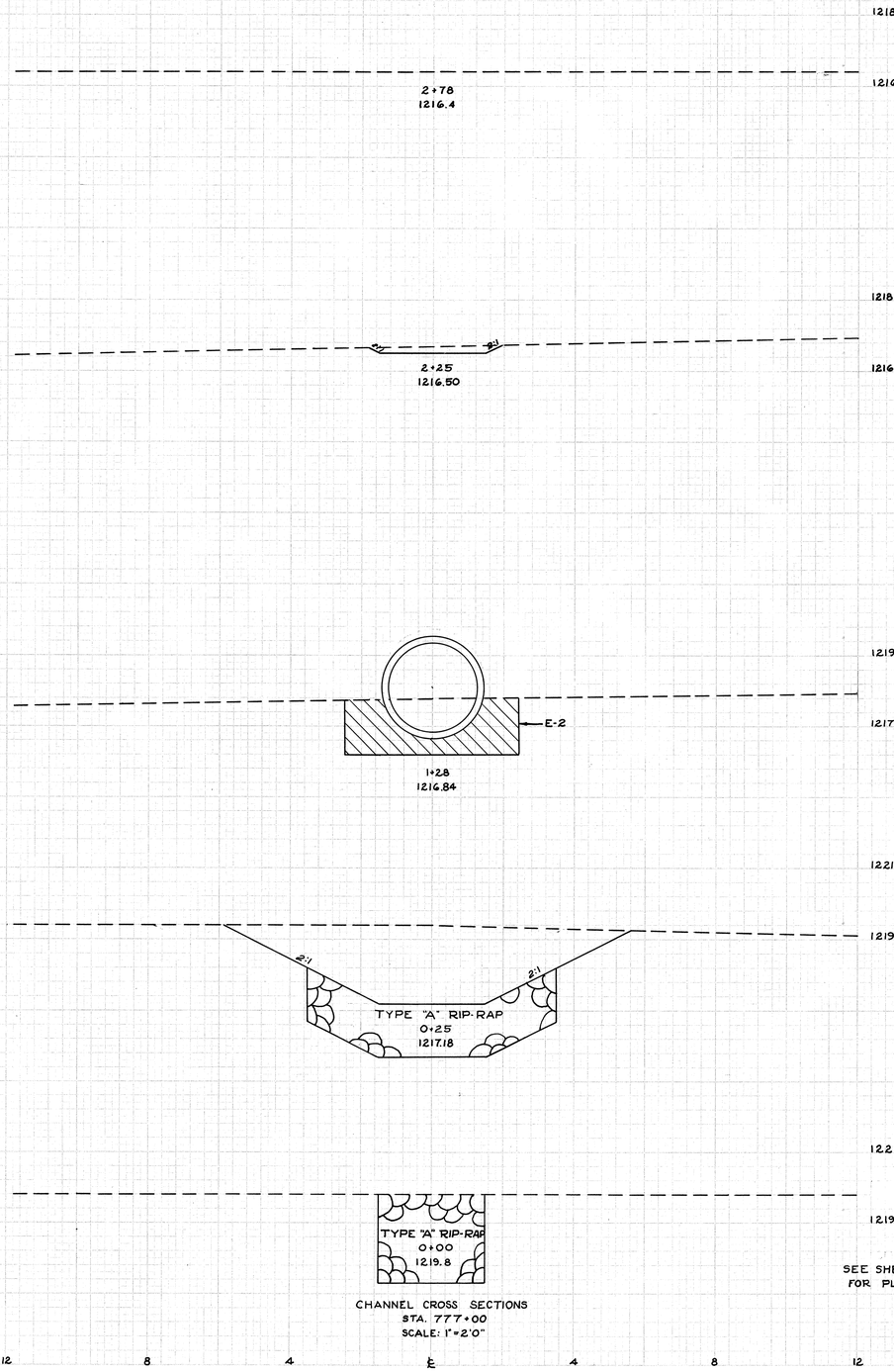
E-2	EXCAVATION FOR STRUCTURES	38 C.Y.
E-3	CHANNEL EXCAVATION	10 C.Y.
L-10	SODDING	3.6 S.Y.
S-1	CONCRETE FOR STRUCTURES CLASS "C"	14.8 = 15 C.Y.
S-4	REINFORCING STEEL	572 LBS.
S-27	30" PIPE FOR ROADWAY CULVERTS	206 L.F.
I-10	TYPE "A" RIP-RAP	21 S.Y.

REVISED: 31 MAR. '58

STATE	PROJECT	
OHIO	I-1105 (25)	

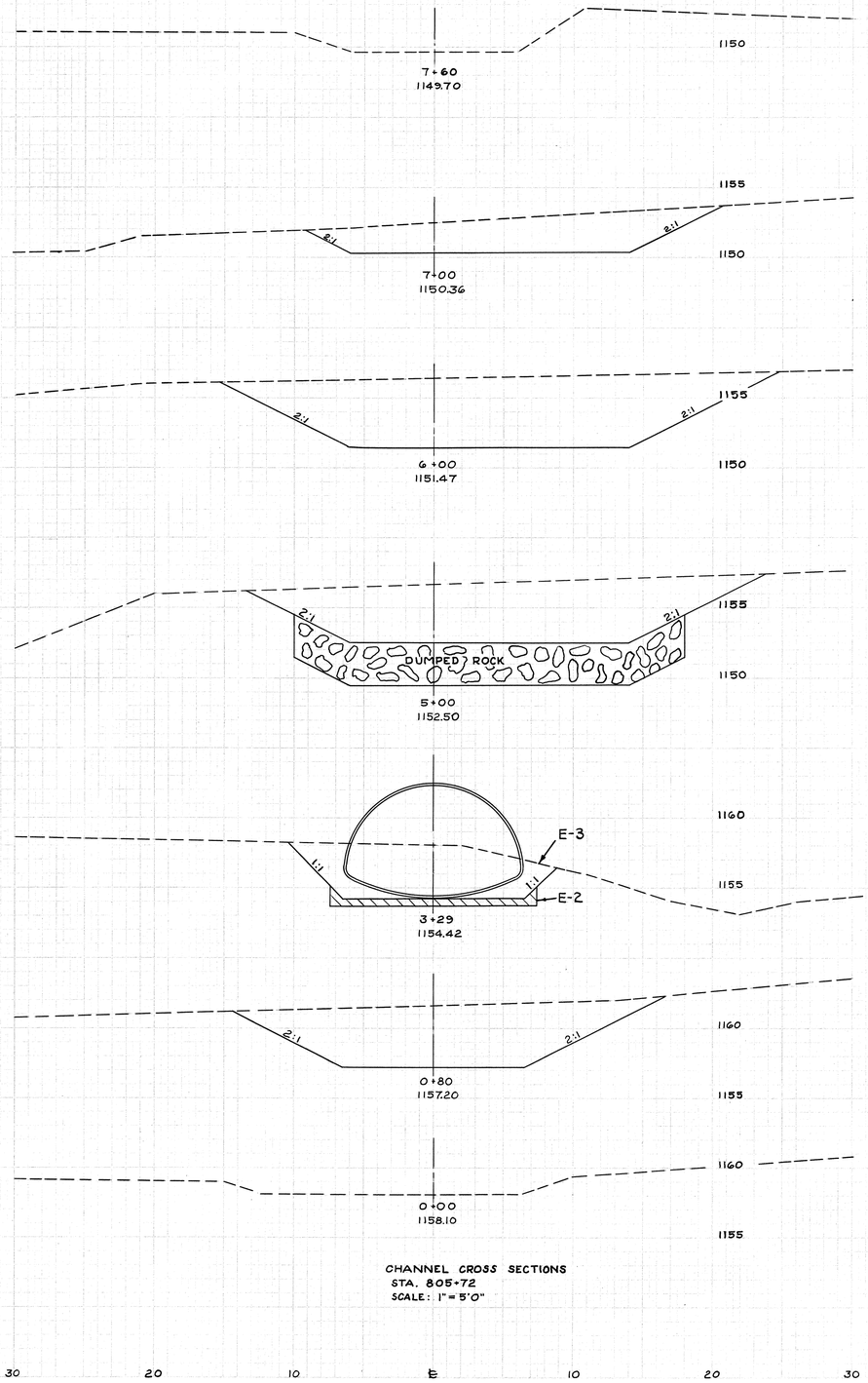
126
189

MED.-I-10.09



CHANNEL CROSS SECTIONS
STA. 777+00
SCALE: 1"=2'0"

SEE SHEET No. 125
FOR PLAN VIEW.



CHANNEL CROSS SECTIONS
STA. 805+72
SCALE: 1"=5'0"

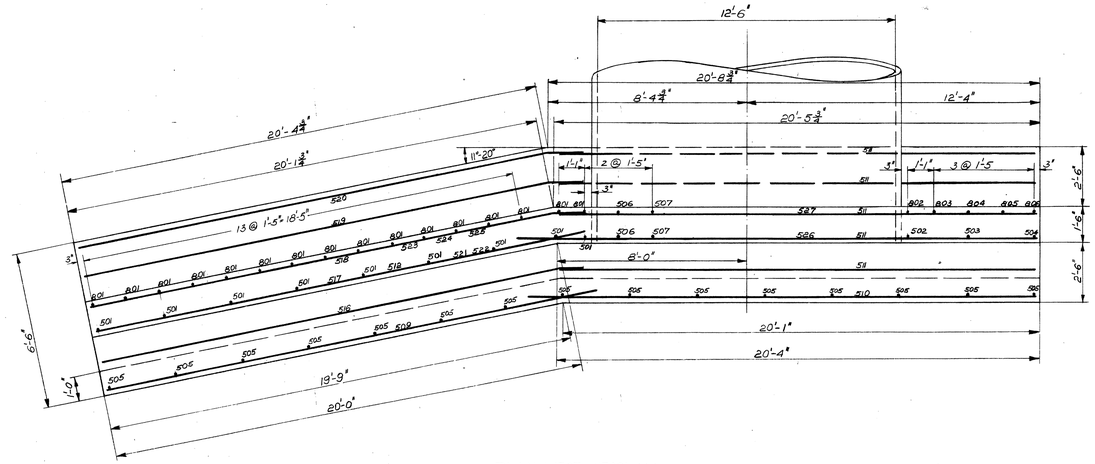
SEE SHEET No.125
FOR PLAN VIEW.

SEE SHEET No. 124
FOR CHANNEL
RELOCATION.

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

127/189

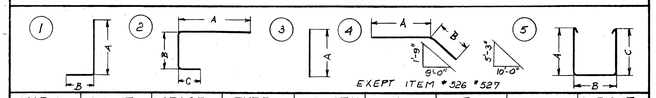
MED-I-10.09



PLAN-WEST HEADWALL
SCALE = 1:36
ONE REQUIRED

12'-6" × 7'-11" CMP ARCH
AT STATION 805+72

REINFORCING



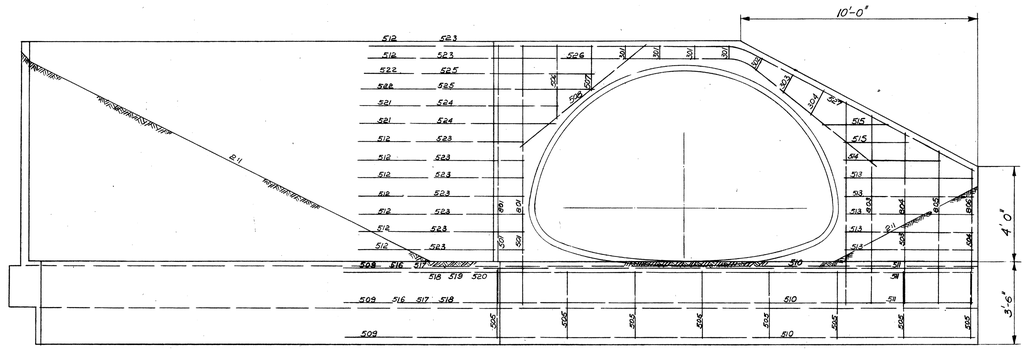
MARK	QUANT.	SPACE	TYPE	LENGTH	A	B	C	WEIGHT
501	9	2'-10"	1	12'-3"	10'-11"	1'-4"		115
502	1	2'-10"	1	9'-11"	8'-7"	1'-4"		11
503	1	2'-10"	1	8'-7"	7'-3	1'-4"		9
504	1	2'-10	1	7'-1"	5'-9"	1'-4"		8
505	15	2'-10	2	9'-9"	6'-2"	3'-1"	8"	153
506	2	1'-5"	3	3'-1"	3'-1"			7
507	2	1'-5"	3	1'-11"	1'-11"			4
508	2		3	6'-10"	6'-10"			15
509	3	1'-6"	3	21'-0"	21'-0"			66
510	3	1'-6"	3	21'-4"	21'-4"			67
511	8		3	20'-0"	20'-0"			167
512	9	9"	3	21'-0"	21'-0"			198
513	10	9"	3	5'-6"	5'-6"			58
514	2	9"	3	4'-2"	4'-2"			9
515	4	9"	3	2'-8"	2'-8"			12
516	2		4	20'-9"	19'-9"	1'-0		44
517	2		4	21'-0"	19'-10"	1'-2"		44
518	2		4	21'-4"	20'-0"	1'-4"		45
519	1		4	21'-8"	20'-2"	1'-6"		23
520	1		4	22'-0"	20'-4"	1'-8"		23
521	2	9"	4	22'-7"	19'-10"	2'-9"		48
522	2	9"	4	25'-0"	19'-10"	4'-2"		53
523	9	9"	4	21'-3"	20'-0"	1'-3"		200
524	2	9"	4	22'-11"	20'-0"	2'-11"		48
525	2	9"	4	24'-4"	20'-0"	4'-4"		51
526	2		4	17'-8"	10'-4"	7'-4"		37
527	2		4	21'-6"	10'-4"	11'-2"		45
							TOTAL:	1561#
801	16	1'-5"	1	14'-8"	10'-11"	3'-9"		628
802	1	1'-5"	1	12'-4"	8'-7"	3'-9"		33
803	1	1'-5"	1	11'-9"	8'-0"	3'-9"		32
804	1	1'-5"	1	11'-0"	7'-3"	3'-9"		30
805	1	1'-5"	1	10'-3"	6'-6"	3'-9"		28
806	1	1'-5"	1	9'-6"	5'-9"	3'-9"		26
							TOTAL:	777#
301	4	1'-5"	5	2'-8"	7"	1'-2"	7"	4
302	1	1'-5"	5	2'-10"	8"	1'-2"	8"	1
303	1	1'-5"	5	3'-4"	11"	1'-2"	11"	2
304	1	1'-5"	5	3'-10"	1'-2"	1'-2"	1'-2"	2
							TOTAL:	9#
					TOTAL	REIN FORCING	STEEL	2347#

GENERAL NOTES.

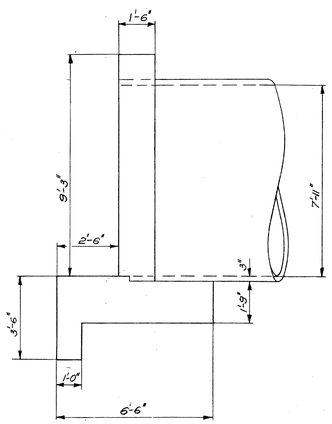
USE CLASS "C" CONCRETE

$f'c$ - 3400 $f's$ - 20,000 p - 35 #/cu.ft.

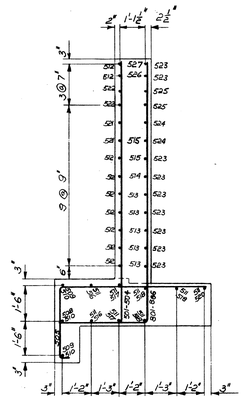
MAX. So.1 BEARING PRESSURE AT
Toe = 2000 #/□'



HEADWALL ELEVATION - 12'-6" × 7'-11" CMP ARCH
SCALE = 1:36



ELEVATION
SCALE=1:36



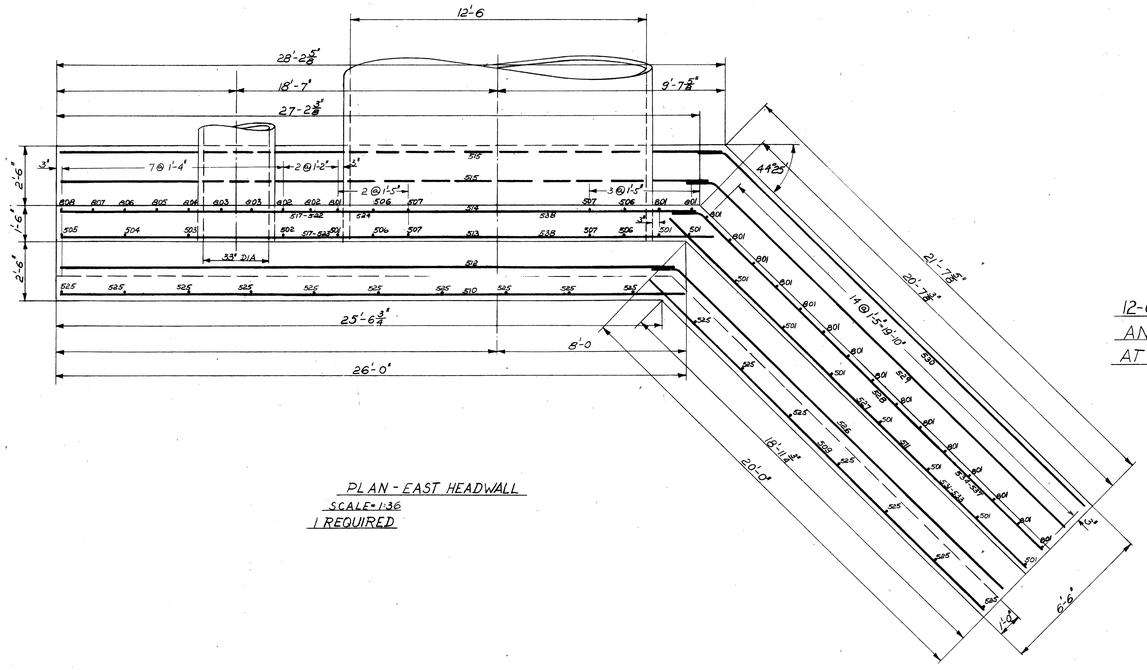
SECTION
SCALE=1:36

HEADWALL DETAILS STA. 805+72

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

128
189

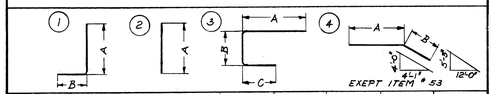
MED.-1-10.09



PLAN - EAST HEADWALL
SCALE-1:36
1 REQUIRED

12-6"x7-11" CMP ARCH
AND 33" DIA CULVERT
AT STATION 805+72

REINFORCING



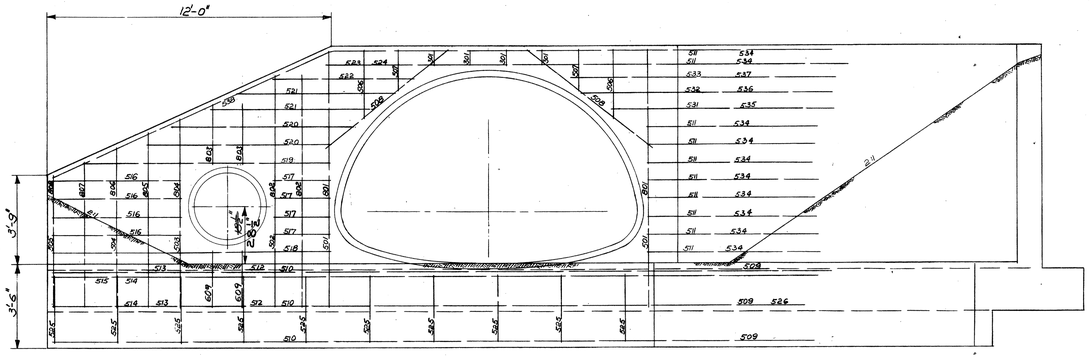
MARK	QUANT	SPACE	TYPE	LENGTH	A	B	C	WEIGHT
501	10	2'-10"	1	12'-3"	10'-11"	1'-4"		128
502	1		1	11'-1"	9'-9"	1'-4"		12
503	1	2'-8	1	9'-4"	8'-0	1'-4"		10
504	1	2'-10"	1	8'-1"	6'-9"	1'-4"		9
505	1	2'-10	1	6'-10"	5'-6	1'-4"		8
506	4	1'-5"	2	2'-11"	2'-11"			13
507	4	1'-5"	2	1'-9"	1'-9"			8
508	4		2	6'-8"	6'-8"			28
509	3	1'-6"	2	19'-9"	19'-9"			62
510	3	1'-6	2	26'-3"	26'-3"			83
511	10	9" & 7"	2	21'-0"	21'-0"			220
512	2		2	26'-0"	26'-0"			55
513	2		2	26'-6"	26'-6"			56
514	2		2	26'-10"	26-10"			57
515	2		2	27'-4	27'-4"			58
516	8	9"	2	5'-6"	5'-6"			46
517	8	9	2	2'-6"	2'-6"			21
518	2	9"	2	11'-9"	11'-9"			25
519	2	9"	2	10'-5"	10'-5"			22
520	4	9	2	7'-10"	7'-10"			33
521	4	9'	2	6'-9"	6'-9"			29
522	2	7'	2	6'-0"	6'-0"			13
523	1	7'	2	27'-7"	27'-7"			29
524	1	7'	2	26'-9"	26'-9"			28
525	17	2'-10" & 2'-8"	3	9'-9"	6'-2"	3'-1"	8"	173
526	2		4	20'-4"	19'-4"	1'-0"		43
527	2		4	20'-10"	19'-10	1'-0"		44
528	2		4	21'-2"	20'-2"	1'-0"		44
529	1		4	21'-0"	20'-8	1'-0"		23
530	1		4	22'-6"	21'-2"	1'-4"		24
531	1	9'	4	22'-8"	19'-10"	2'-10"		24
532	1	9"	4	23'-10"	19'-10	4'-0"		25
533	1	9'	4	24'-6"	19'-10"	4'-8"		26
534	10	9" & 7"	4	22'-1"	20'-4"	1'-9		231
535	1	9"	4	23'-7"	20'-4"	3'-3"		25
536	1	9"	4	24'-9"	20'-4"	4'-5"		26
537	1	9"	4	25'-5	20'-4	5'-1"		27
538	2		4	27'-8"	14'-9"	12'-11"		58
							TOTAL:	1846#
801	18	1'-5"	1	14' 7"	10'-11"	3'-8"		700
802	2	1'-2"	1	13'-5"	9'-9"	3'-8"		72
803	2	1'-4"	2	2'-9"	2'-9"			15
804	1	1'-4"	1	11'-8"	8'-0	3'-8"		31
805	1	1'-4"	1	11'-0"	7'-4"	3'-8"		30
806	1	1'-4"	1	10'-5	6'-8"	3'-8		28
807	1	1'-4"	1	9'-10	6'-2"	3'-8"		27
808	1	1'-4"	1	9'-2"	5'-6"	3'-8"		25
809	2	1'-4	1	6'-1"	2'-5"	3'-8"		33
							TOTAL:	961#
301	4	1'-6"	5 SEE SHEET HEADING	2'-8'	7'	1'-2"	7"	4#
				TOTAL	REINFORCING		STEEL:	2811#

GENERAL NOTES

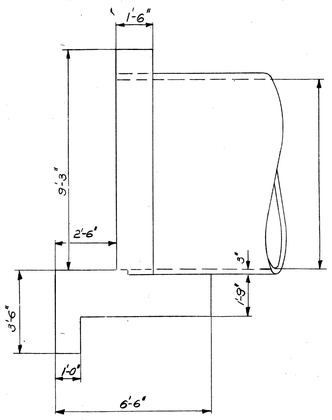
USE CLASS 'C' CONCRETE

f'c - 3400 f's - 20,000 p - 35 #/cu ft.

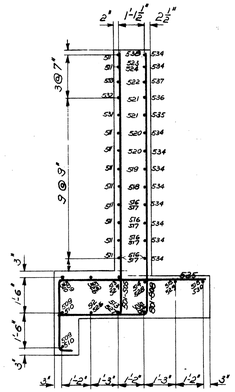
MAX. So.1 BEARING PRESSURE AT
Toe - 2000 #/d



HEADWALL ELEVATION - 12'-6"x7'-11" CMP ARCH AND 33" DIA CULVERT
SCALE-1:36



ELEVATION
SCALE-1:36



SECTION
SCALE-1:36

REVISED-3-31-58

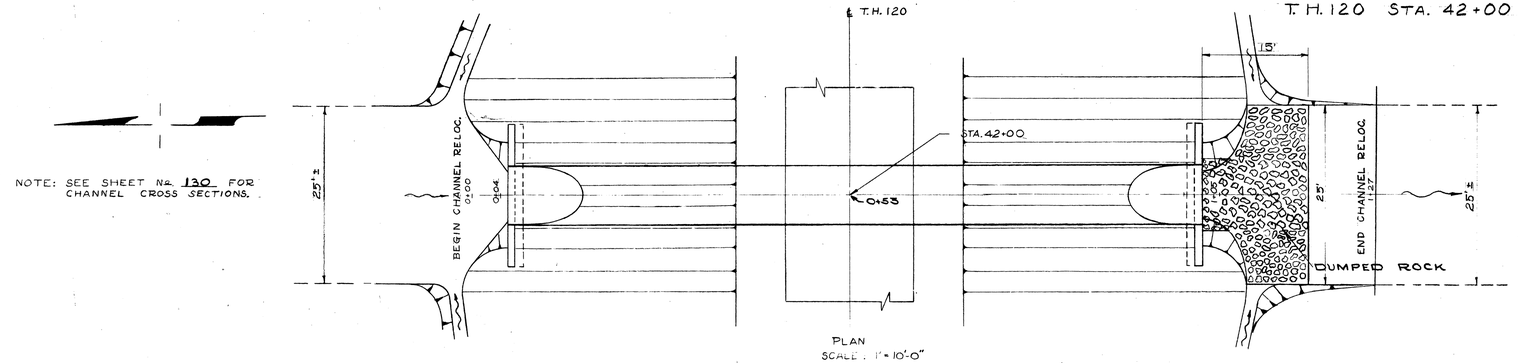
HEADWALL DETAILS STA. 805+72

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

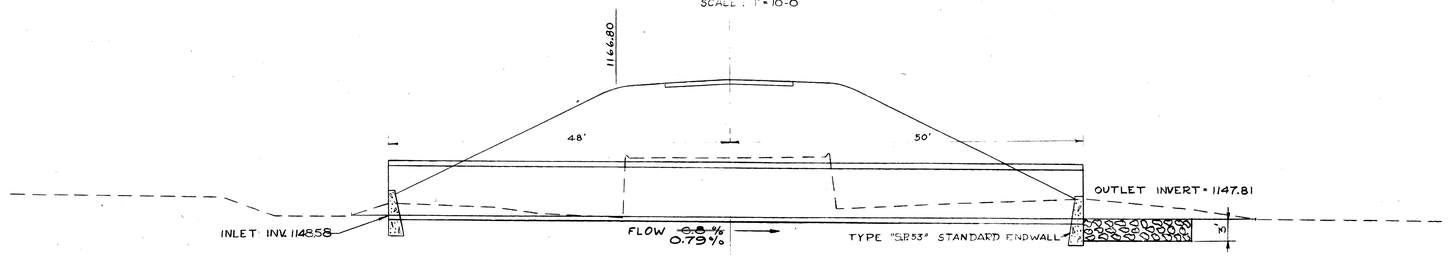
129
189

MED.-1-10.09

T. H. 120 STA. 42+00



PLAN
SCALE : 1" = 10'-0"



42+00
CROSS SECTION
SCALE: 1"=10'

NOTE: SEE SHEET No. 130 FOR CHANNEL CROSS SECTIONS.

HW_{50} = 6.7 FT.
V_n = 15.0 F.P.S.

AREA = 1000 ACRES
Q_{50} = 300 C.F.S.

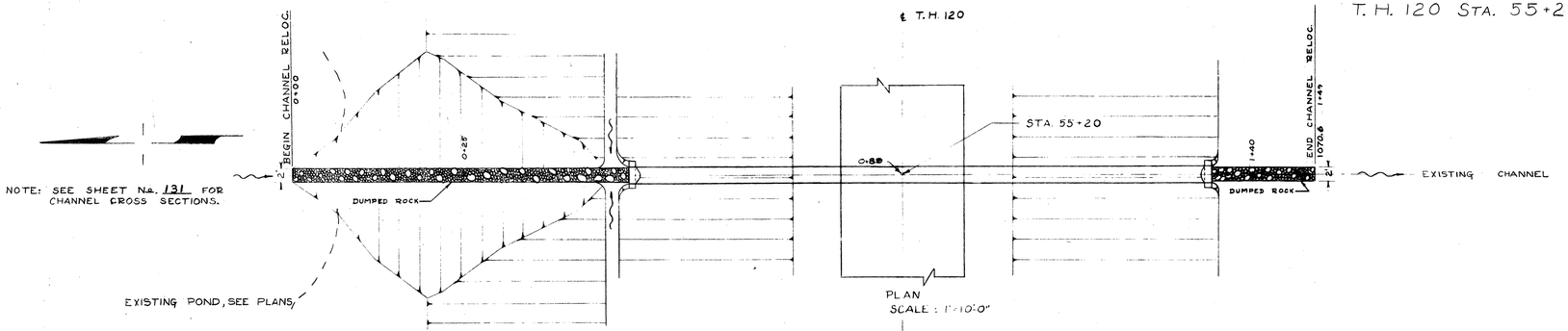
CULVERT DATA
TYPE: STANDARD PIPE CULVERT MG.6(c)
SIZE: 84" x 98'0"
SKEW: NONE
WORK REQ: BUILD NEW 84" x 98'0" STANDARD PIPE CULVERT AS SHOWN.

LISTED IN COLUMN-83 ON SHEET No. 12

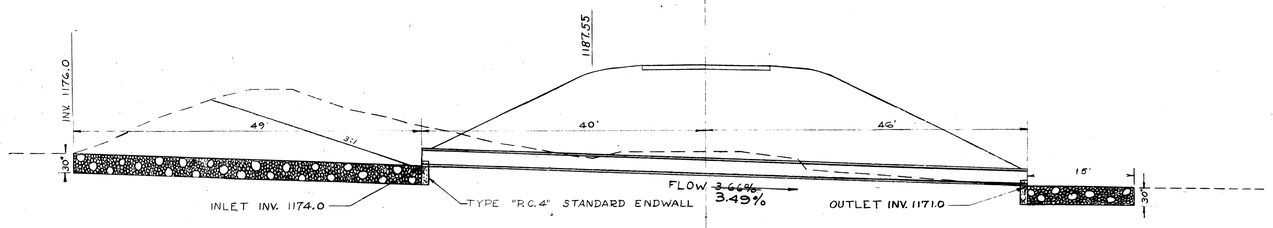
ESTIMATED QUANTITIES

E-2	EXCAVATION FOR STRUCTURE	19 C.Y.
E-3	CHANNEL EXCAVATION	120 C.Y.
I-10	DUMPED ROCK CHANNEL PROTECTION	34 C.Y.
L-10	SODDING	0 S.Y.
S-1	CONCRETE FOR STRUCTURE CLASS "E"	12 C.Y.
S-27	84" PIPE FOR ROADWAY CULVERTS	98 LIN. FT.

T. H. 120 STA. 55+20



PLAN
SCALE : 1"=10'-0"



55+20
CROSS SECTION
SCALE: 1"=10'0"

NOTE: SEE SHEET No. 131 FOR CHANNEL CROSS SECTIONS.

	MG.6(b) MG.8(b)	MG.4(d)
HW_{50} =	2.8 FT.	3.8 FT.
V_n =	14.0 F.P.S.	10.2 F.P.S.

AREA = 7.0 ACRES
Q_{10} = 22 C.F.S.

CULVERT DATA
TYPE: STANDARD PIPE CULVERT MG.6(b), MG.8(b); MG.4(d)
SIZE: 24" x 86'0"
SKEW: NONE
WORK REQ: BUILD NEW 24" x 86'0" STANDARD PIPE CULVERT AS SHOWN.

LISTED IN COLUMN-84 ON SHEET No. 12

ESTIMATED QUANTITIES

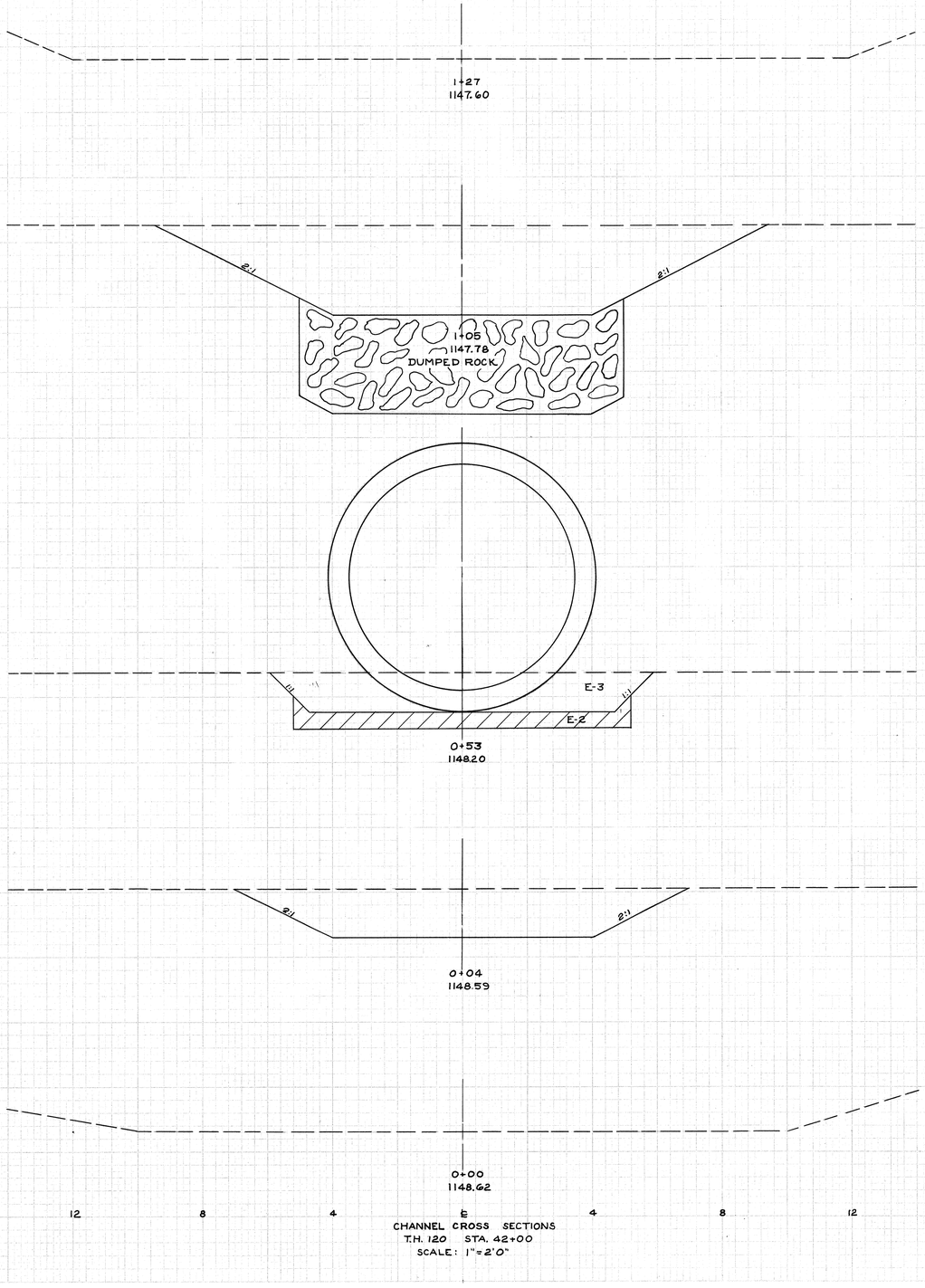
E-2	EXCAVATION FOR STRUCTURE	64 C.Y.
E-3	CHANNEL EXCAVATION	251 C.Y.
I-10	DUMPED ROCK CHANNEL PROTECTION	12 C.Y.
L-10	SODDING	0 S.Y.
S-1	CONCRETE FOR STRUCTURE, CLASS "E"	.82 C.Y.
S-27	24" PIPE FOR ROADWAY CULVERTS	86 LIN.FT.

REVISED-3-31-58

CULVERT DETAILS T.H. 120 STA. 42+00 - STA. 55+20

FED. RD.	STATE	PROJECT		130 / 189
2	OHIO	I-1105 (25)		

MED.-I-10.09



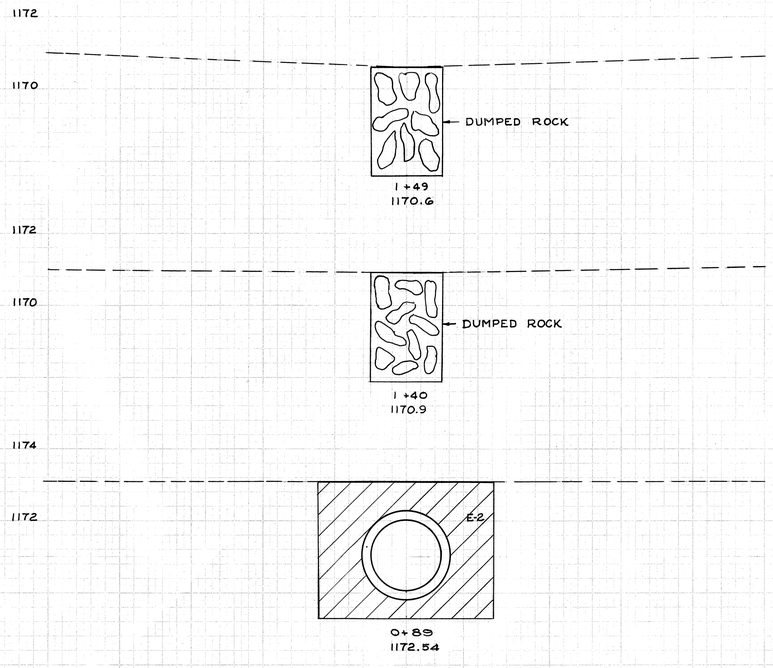
CHANNEL CROSS SECTIONS
T.H. 120 STA. 42+00
SCALE: 1"=2'0"

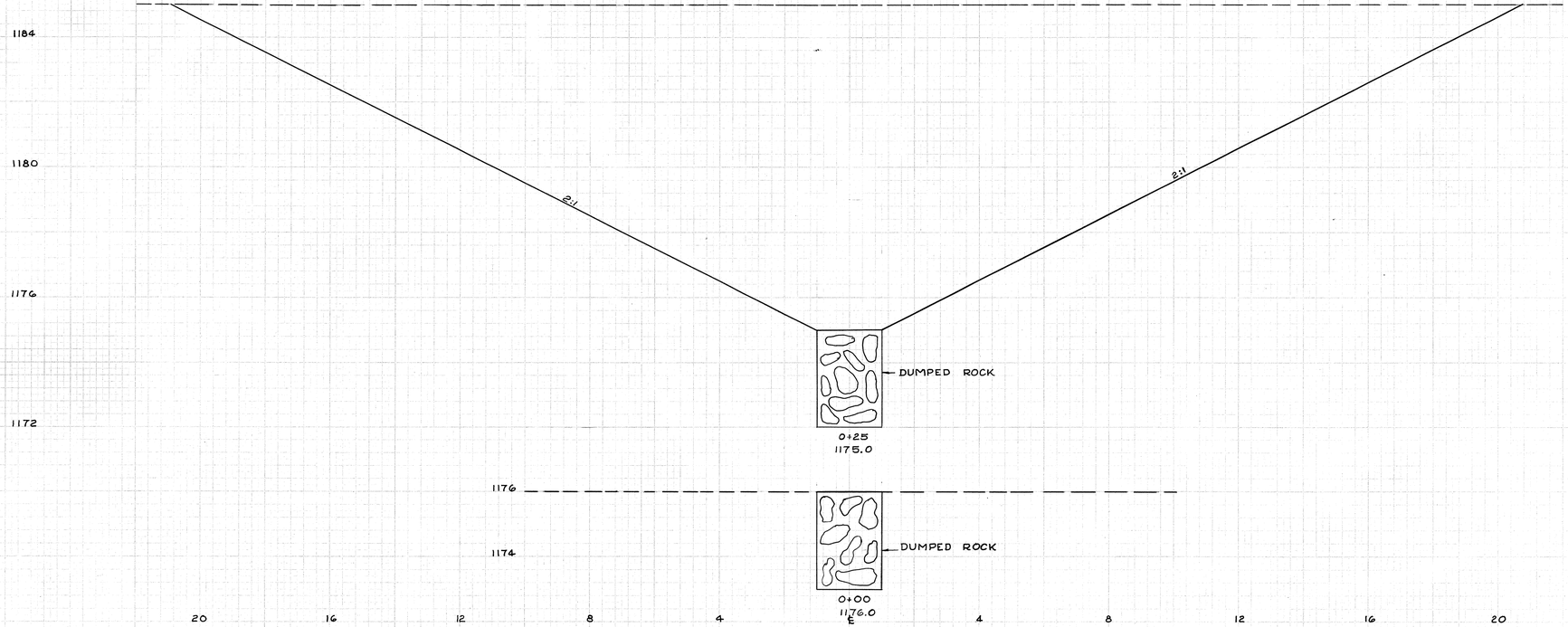
SEE SHEET No. 129
FOR PLAN VIEW.

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

131
189

MED.-I-10.09





CHANNEL CROSS SECTIONS
STA. 55+20
SCALE: 1"=2'0"

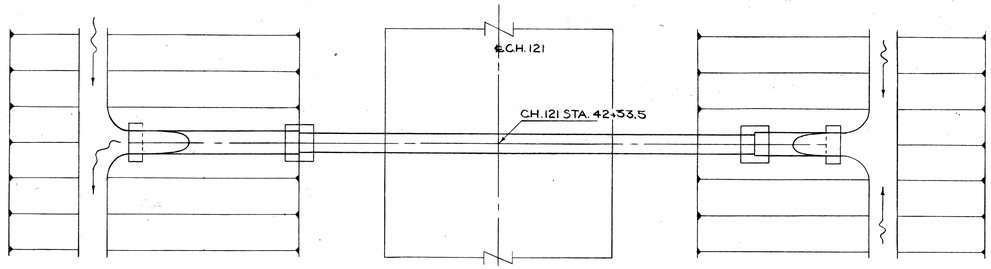
SEE SHEET No.129
FOR PLAN VIEW.

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

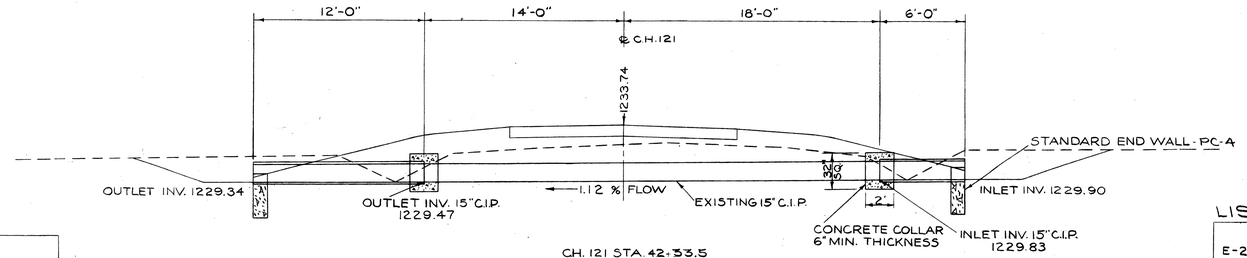
132/189

MED.-1-10.09

C.H. 121 STA. 42+33.5



PLAN
SCALE: 1"=5'



CH. 121 STA. 42+33.5
CROSS SECTION
SCALE: 1"=5'

HW_{10} = 3.8 FT
V_R = 5.8 F.P.S.

AREA: 3 ACRES
Q_{10} = 11 C.F.S.

CULVERT DATA

TYPE: STANDARD PIPE FOR ROADWAY CULVERTS MG.6(b), MG.8(b)
SIZE: 15"x 12'-0" , 15" x 6'0"
SKEW: NONE
WORK REQUIRED: BUILD STANDARD PIPE EXTENSION ON EACH END OF EXISTING 15" C.I.P. CULVERT; 15"x 12'-0" & 15"x 6'-0" AS SHOWN. BUILD TWO CONCRETE COLLARS TO JOIN STANDARD PIPE & C.I.P. AS SHOWN.

LISTED IN COLUMN-90 ON SHEET No. 12

ESTIMATED QUANTITIES

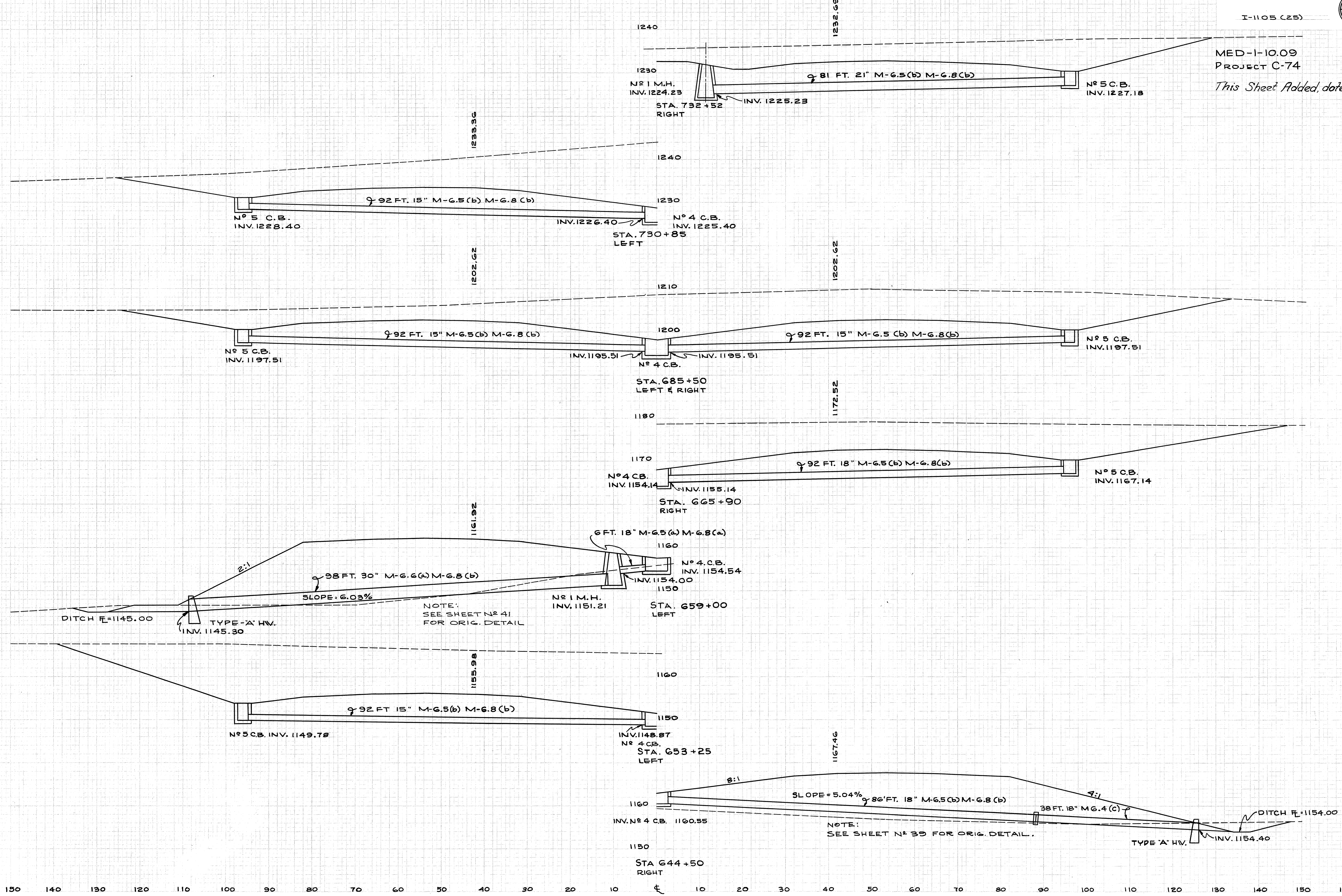
E-2	EXCAVATION FOR STRUCTURES		7 CU.YDS.
S-27	15" PIPE FOR ROADWAY CULVERTS		18 L.F.
S-1	CONCRETE FOR STRUCTURES	CLASS "E"	.5 CU.YDS.
S-1	CONCRETE FOR COLLARS	CLASS "E"	.8 CU.YDS.

CULVERT DETAIL C.H. 121 STA. 42+33.5

I-1105 (25)

MED-1-10.09
PROJECT C-74

This Sheet Added, date 3-31-58



I-1105(25) 132-B 189

MED-1-10.09
PROJECT C-74

This Sheet Added 3-31-58

SUPPLEMENTAL SHEET 2 of 2

FED. RD.	STATE	PROJECT
2	OHIO	I-1105(25)

133/189

MED-1-10 09

Proposed Structure

Type: Continuous steel girder with reinforced concrete deck and substructure
Span: 62-103.5-103.5-62
Road: 24'-0" F/F 2'-0" Safety Curbs
Load frequency: CF 30
Skew: 38° 03' 47" LF
Wearing surface: 1/2" Monolithic
Approach slab: 25' Long
Alignment: Straight
Superelevation: None

Traffic Count - 120 ADT 1975

FOUNDATION SOUNDINGS: Foundation design and foundation quantities are based on a study of soil-sampling soundings made at the site. This sounding information may be inspected in the office of the Interstate Projects Office in Columbus or in the Division Office, but the State does not guarantee the accuracy thereof.

ESTIMATED AVERAGE PAY LENGTH 25'-0" FOR ALL PIERS
ESTIMATED AVERAGE PAY LENGTH 30'-0" FOR ALL ABUTMENTS

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

SITE PLAN
BRIDGE NO. MED-1-1091
UNDER GOOD ROAD T.H. 120
MEDINA COUNTY

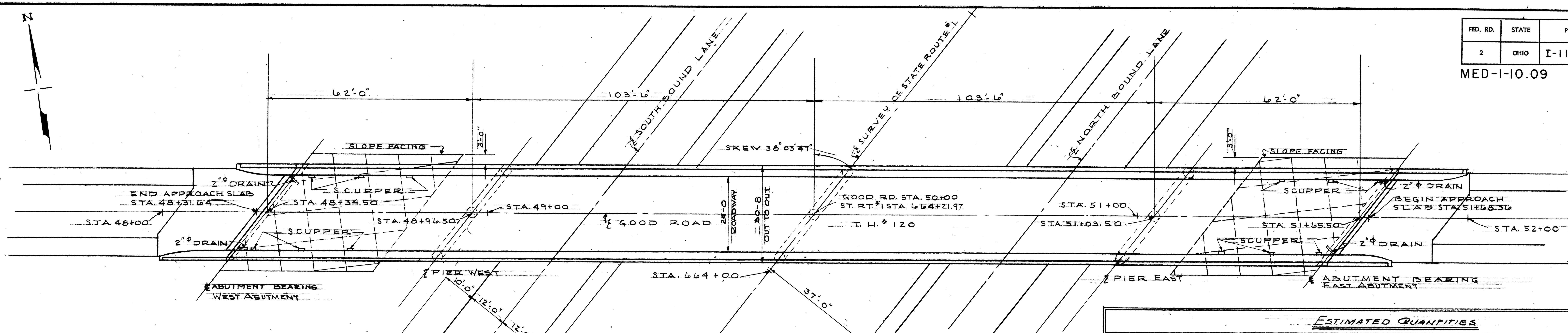
STA. 664+21.97 SCALE: 1" = 20'

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
EAK			DHC			3-19-58

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

134/189

MED-1-10.09



PLAN

GENERAL NOTES

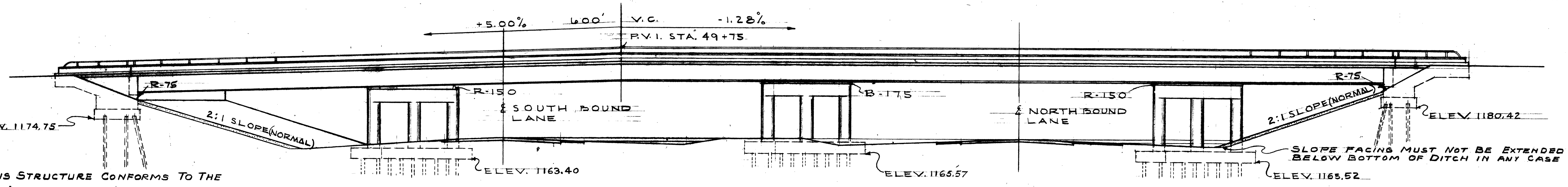
WELDED STEEL: THE STEEL FOR THE 51" GIRDER SHALL CONFORM TO A.S.T.M. DESIGNATION A-373. ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO EITHER A.S.T.M. A-7 (AS PER SEC. M-74 (a) OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS) OR TO A-373

EXCAVATION QUANTITY INCLUDES THE REMOVAL OF FILL MATERIAL BETWEEN THE SURFACE OF THE PROPOSED EMBANKMENT AND THE BOTTOM OF ABUTMENT.

SLOPE FACING: ONE FOOT DEEP EXTENDING FROM FACE OF ABUTMENT TO TOE OF SLOPE SHALL BE PROVIDED AT EACH ABUTMENT FOR FULL WIDTH OF BRIDGE PLUS THREE FEET ON EACH SIDE OF BRIDGE AND PARALLEL WITH ℄ OF SUPERSTRUCTURE

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER	ABUT'S	PIERS	GEN.
E-2	LUMP	SUM	COFFERDAMS, CRIBS AND SHEETING				LUMP
E-2	389	CU. YDS.	UNCLASSIFIED EXCAVATION.		201	188	
S-1	285	CU. YDS.	CLASS "C" CONCRETE SUPERSTRUCTURE.	285			
S-1	78	CU. YDS.	CLASS "E" CONCRETE ABUT'S ABOVE FOOTINGS.		78		
S-1	74	CU. YDS.	CLASS "C" CONCRETE PIERS ABOVE FOOTINGS.			74	
S-1	158	CU. YDS.	CLASS "E" PIERS & ABUT'S FOOTINGS		65	93	
	101,514			62,659	9,627		
S-4	~~110,561~~	LBS.	REINFORCING STEEL	~~71,506~~	~~9,827~~	29,228	
S-7	322,600	LBS.	STRUCTURAL STEEL	322,600			
S-8	322,600	LBS.	FIELD PAINTING OF STRUCTURAL STEEL	322,600			
S-14	740	LIN. FT.	RAILING (ALUM. RAIL & SUPPORTS - CONCRETE PARAPETS & END POSTS - REINFORCING STEEL)	740			
S-16	LUMP	SUM	FIRST TEST PILE				LUMP
S-18	1,920	LIN. FT.	12" ϕ CAST IN PLACE REINFORCED CONCRETE PILE		720	1200	
S-29	30	CU. YDS	POROUS BACKFILL		30		
S-29	98	CU. YDS.	SLOPE FACING (S-29.05 TYPE)		98		



ELEVATION

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO THE REQUIREMENTS OF "DESIGN SPECIFICATIONS FOR HIGHWAY STRUCTURES" OF THE STATE OF OHIO, DEPT. OF HIGHWAYS, DATED 9-1-57

CONCRETE DECK PLACING: IN ORDER TO FACILITATE WATER CURING OF THE CONCRETE OF THE DECK SLAB, THE PLACING OF CONCRETE SHALL PROGRESS UPGRADE. THE SLAB MAY BE PLACED IN SECTIONS, BETWEEN TRANSVERSE CONSTRUCTION JOINTS WHICH ARE NORMAL TO THE CENTER-LINE OF BRIDGE AND ARE LOCATED NEAR THE CENTER OF ANY SPAN.
REFERENCE SHALL BE MADE TO STANDARD DRAWING RB-1-55 DATED 3-1-55, AR-1-57 DATED 4-9-57, CSB-2-56 SHEETS 2&3 DATED 12-3-56 AND TO SUPPLEMENTAL SPECIFICATION S-114 DATED 8-30-55
WELDING OF STRUCTURAL STEEL SHALL BE CLASS "A" EXCEPT AS OTHERWISE SHOWN. ANY WELDS SHOWN AS FIELD WELDS MAY, AT THE OPTION OF THE CONTRACTOR, BE MADE IN THE SHOP
SEE SHEET 175, THIS SET, FOR ADDITIONAL DETAILS
ALL PILES TO BE 12" MIN. TOP DIA. CAST IN PLACE REINFORCED CONCRETE PILES DRIVEN TO A MIN. BEARING CAPACITY OF 40 TONS.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

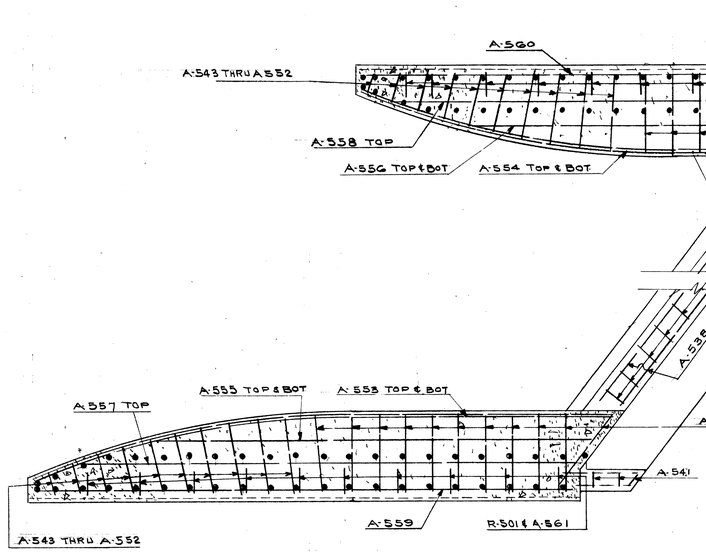
GENERAL PLAN & ELEVATIONS
BRIDGE NO. MED-1-1091
UNDER GOOD ROAD T.H. 120
MEDINA COUNTY
STA. 664+21.97

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
EAK	BROWN		DHC			3.19.58

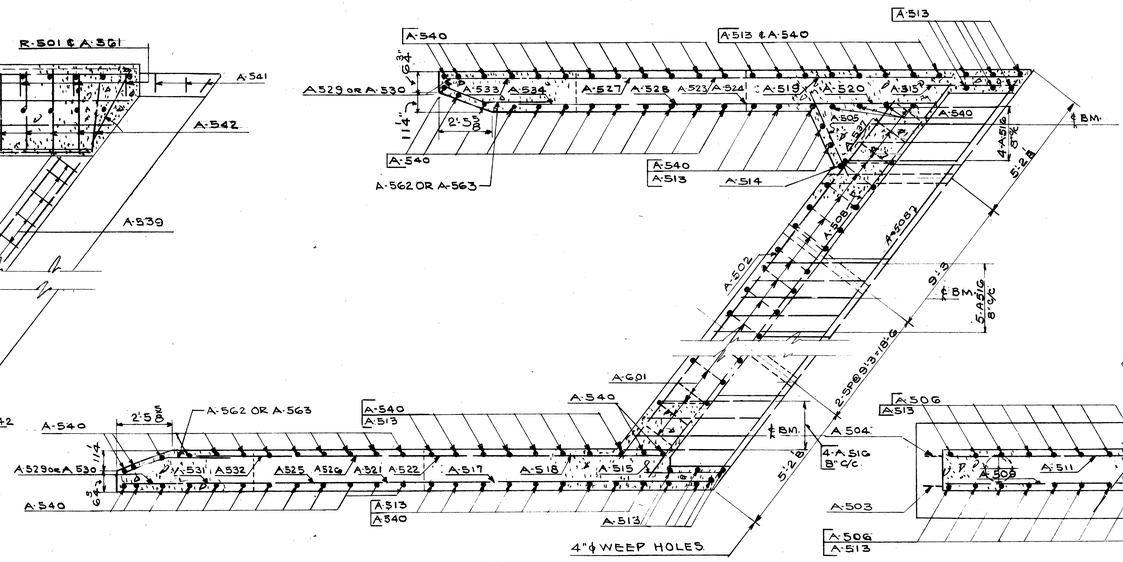
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

135
189

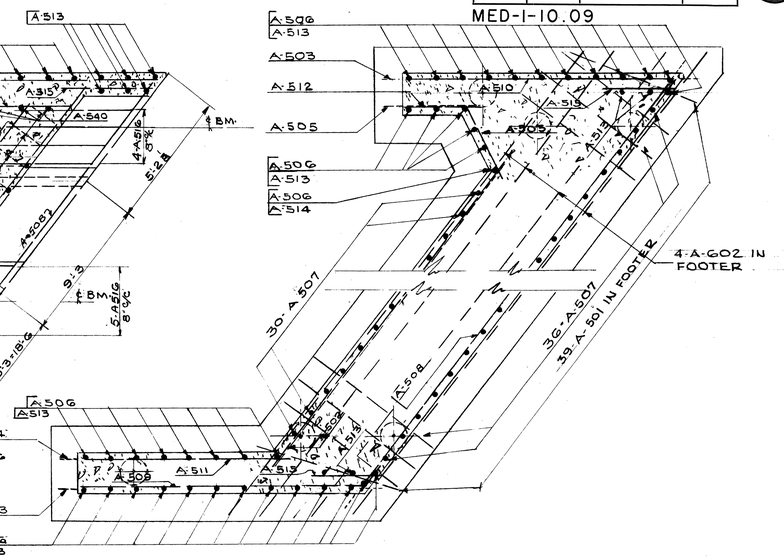
MED-I-10.09



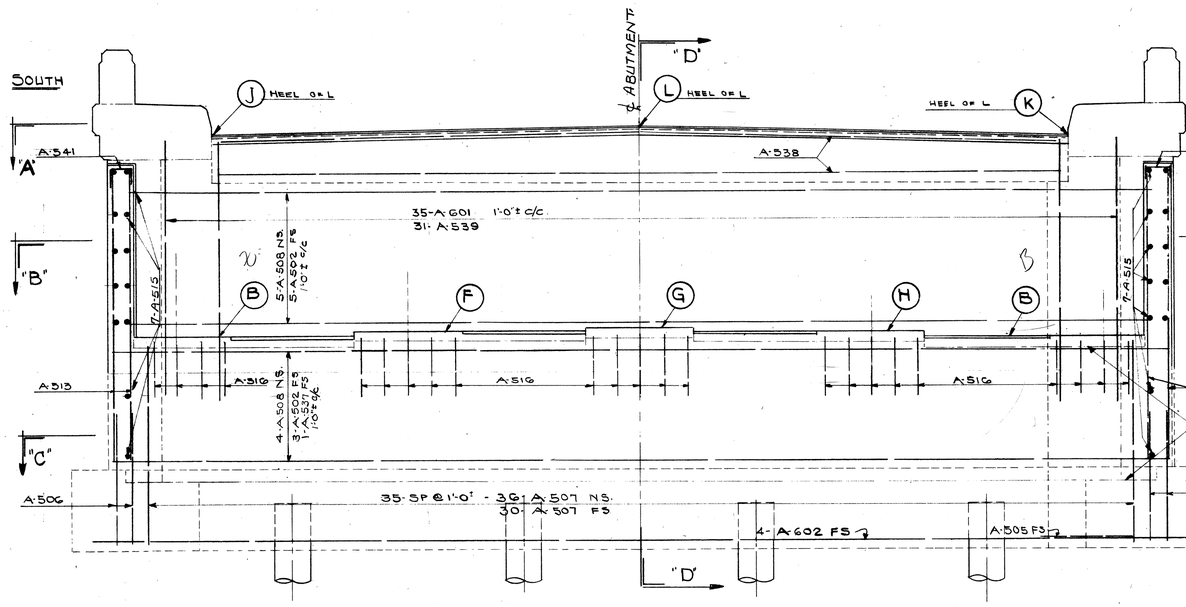
SECTION A-A



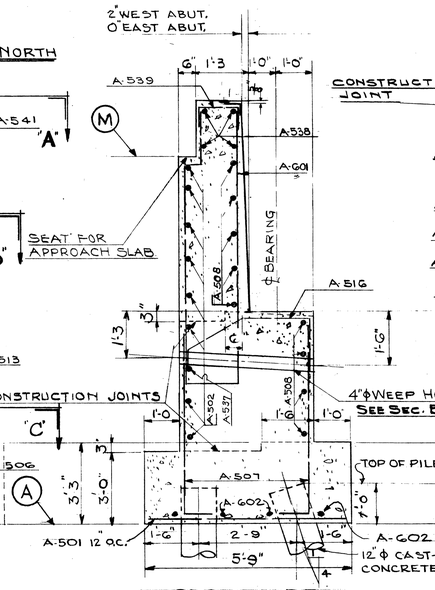
SECTION B-B



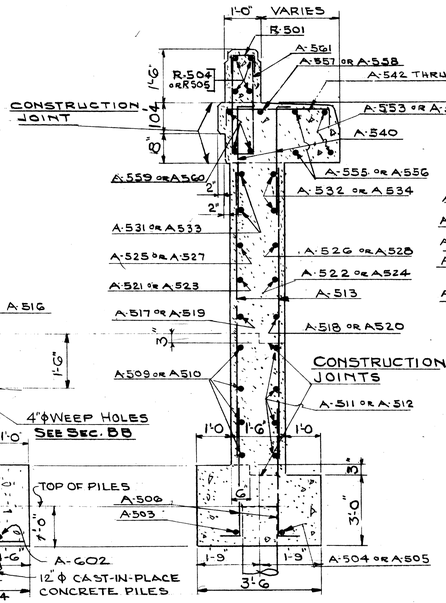
SECTION C-C



ELEVATION - FACE OF WEST ABUTMENT
REFLECTED ELEVATION - FACE OF EAST ABUTMENT.



SECTION D-D



SEC-FF
RODS NOT SHOWN - SAME AS SEC.

SECTION E-E

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

ABUTMENT DETAILS

BRIDGE NO. MED-1-1091
UNDER GOOD ROAD T.H. 120
MEDINA COUNTY
STA. 664+21.97

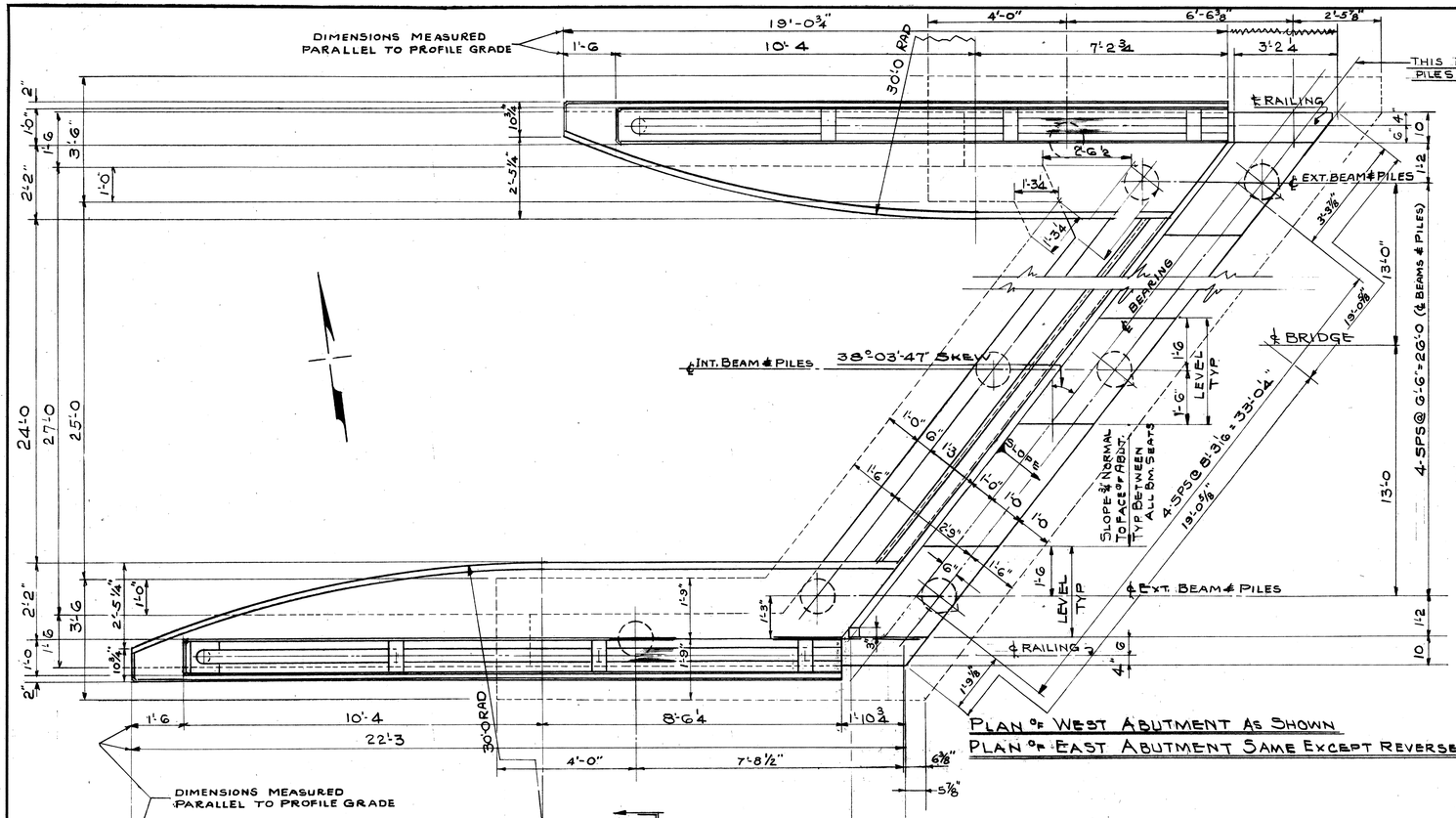
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
EAK	G.W.		DHC			

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

136
189

MED-1-10.09

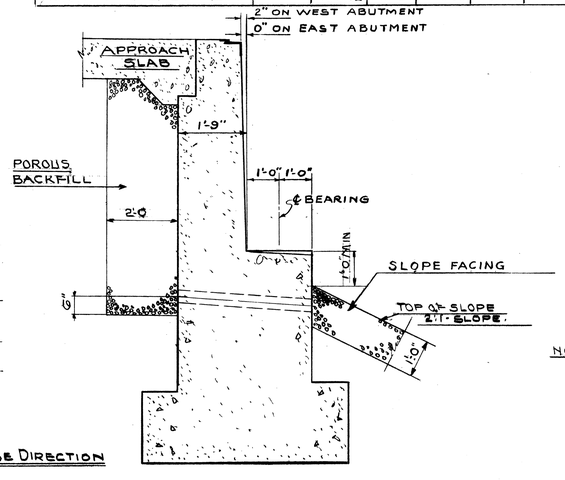
DIMENSIONS MEASURED PARALLEL TO PROFILE GRADE



PLAN OF WEST ABUTMENT AS SHOWN
PLAN OF EAST ABUTMENT SAME EXCEPT REVERSE DIRECTION

ELEVATION SCHEDULE

	A	B	C	D	E	F	G	H	J	K	L	M
WEST ABUTMENT	1174.75					1180.97	1181.24	1181.30	1186.34	1186.97	1186.84	1185.06
EAST ABUTMENT	1180.42					1186.43	1186.53	1186.42	1191.99	1191.98	1192.18	1190.70
SOUTH WING WEST ABUT.		1180.70	1185.58	1182.57	1184.90							
NORTH WING WEST ABUT.		1181.37	1186.32	1183.41	1185.74							
SOUTH WING EAST ABUT		1186.33	1191.30	1188.03	1191.30							
NORTH WING EAST ABUT		1186.32	1191.27	1188.95	1191.28							



SECTION D-D
SHOWING FILLS ONLY

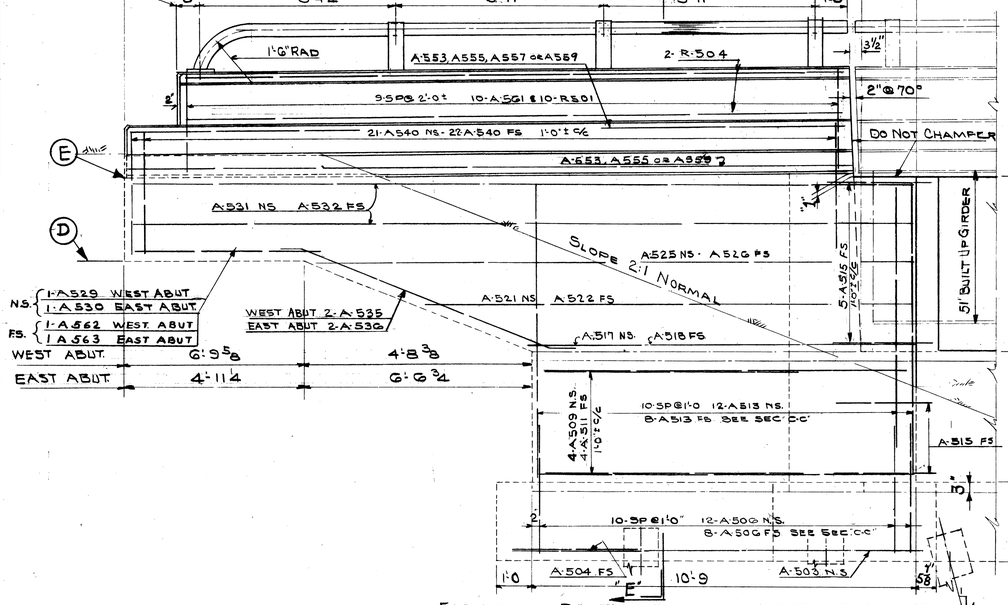
EMBANKMENT: THE EMBANKMENT SHALL BE PLACED AND COMPACTED UP TO THE FINISHED SPILL-THRU SLOPE AND TO THE LEVEL OF THE SUBGRADE FOR A DISTANCE OF 100 FEET BACK OF THE ABUTMENTS, AFTER WHICH EXCAVATION SHALL BE MADE FOR THE ABUTMENT.

THERE SHALL BE A MIN. TIME LAPSE OF THREE (3) MONTHS BETWEEN PLACING OF EMBANKMENT AND BEGINNING OF ABUTMENT CONSTRUCTION.

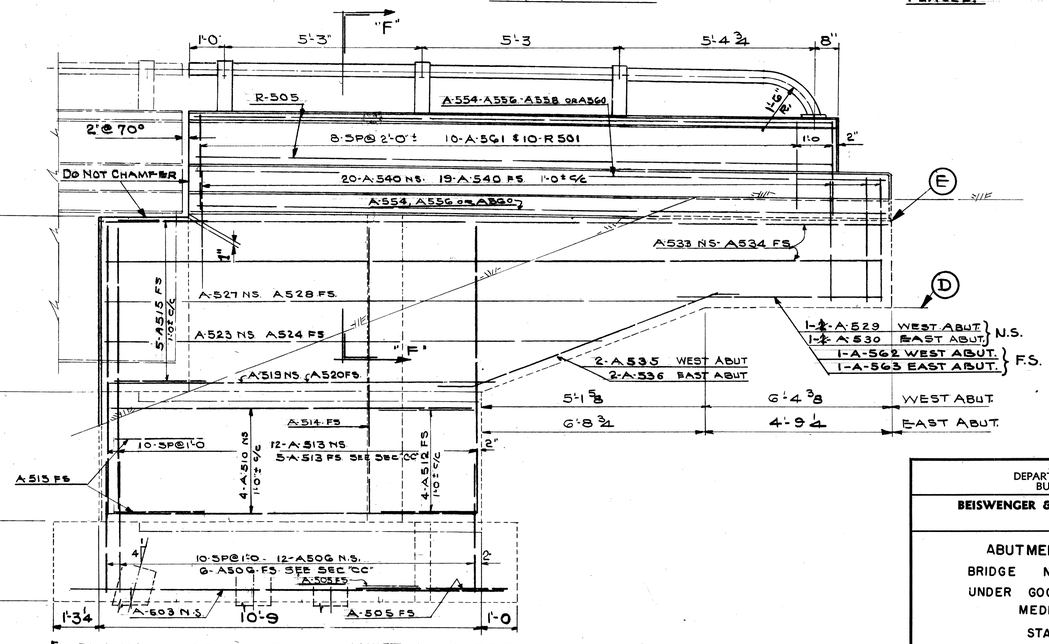
NOTE:-

ALL REINFORCING STL. TO BE COVERED WITH 3" OF CONCRETE WHEN BEARING ON EARTH. ALL OTHER STL MUST BE COVERED WITH 2" OF CONCRETE UNLESS OTHERWISE NOTED.

THE CONCRETE IN THE ABUTMENT BACKWALL SHALL NOT BE PLACED UNTILL AFTER STEEL WORK IS ERECTED BUT SHALL BE PLACED BEFORE THE DECK SLAB CONCRETE IS PLACED.



ELEVATION - SOUTH WINGWALL WEST ABUTMENT
ELEVATION - NORTH WINGWALL EAST ABUTMENT



ELEVATION - SOUTH WINGWALL EAST ABUTMENT.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

ABUTMENT DETAILS

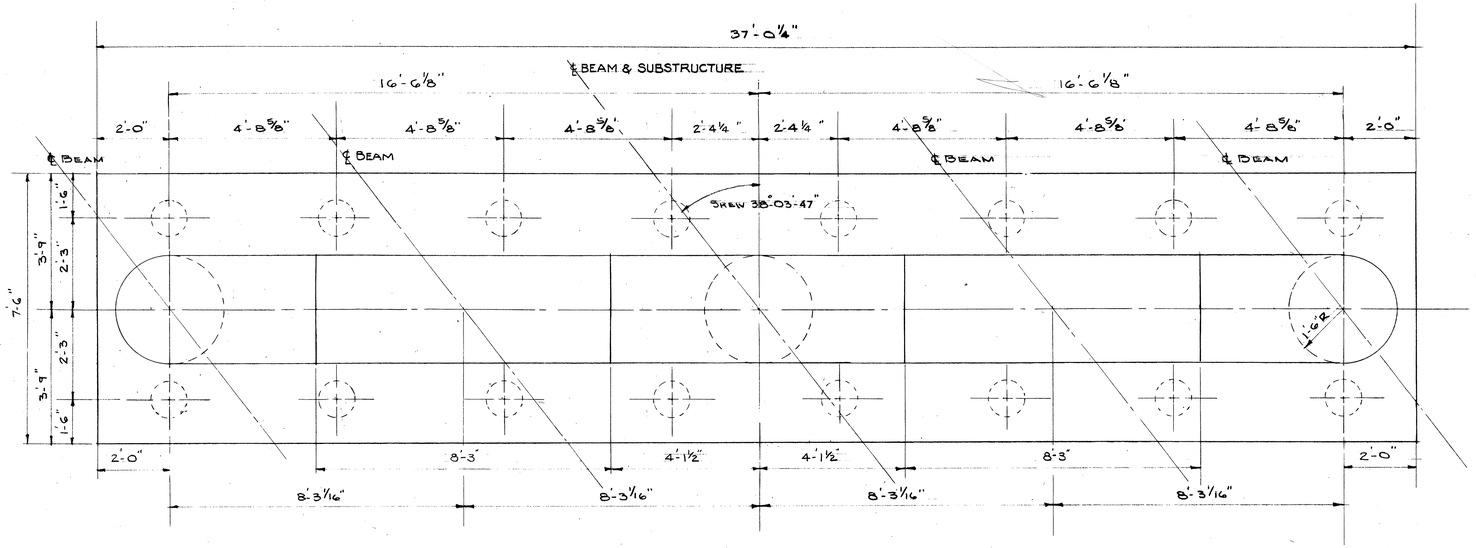
BRIDGE NO. MED-1-1091
UNDER GOOD ROAD T.H.120
MEDINA COUNTY
STA. 664+21.97

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
EAK	CW		DHC			3.19.58

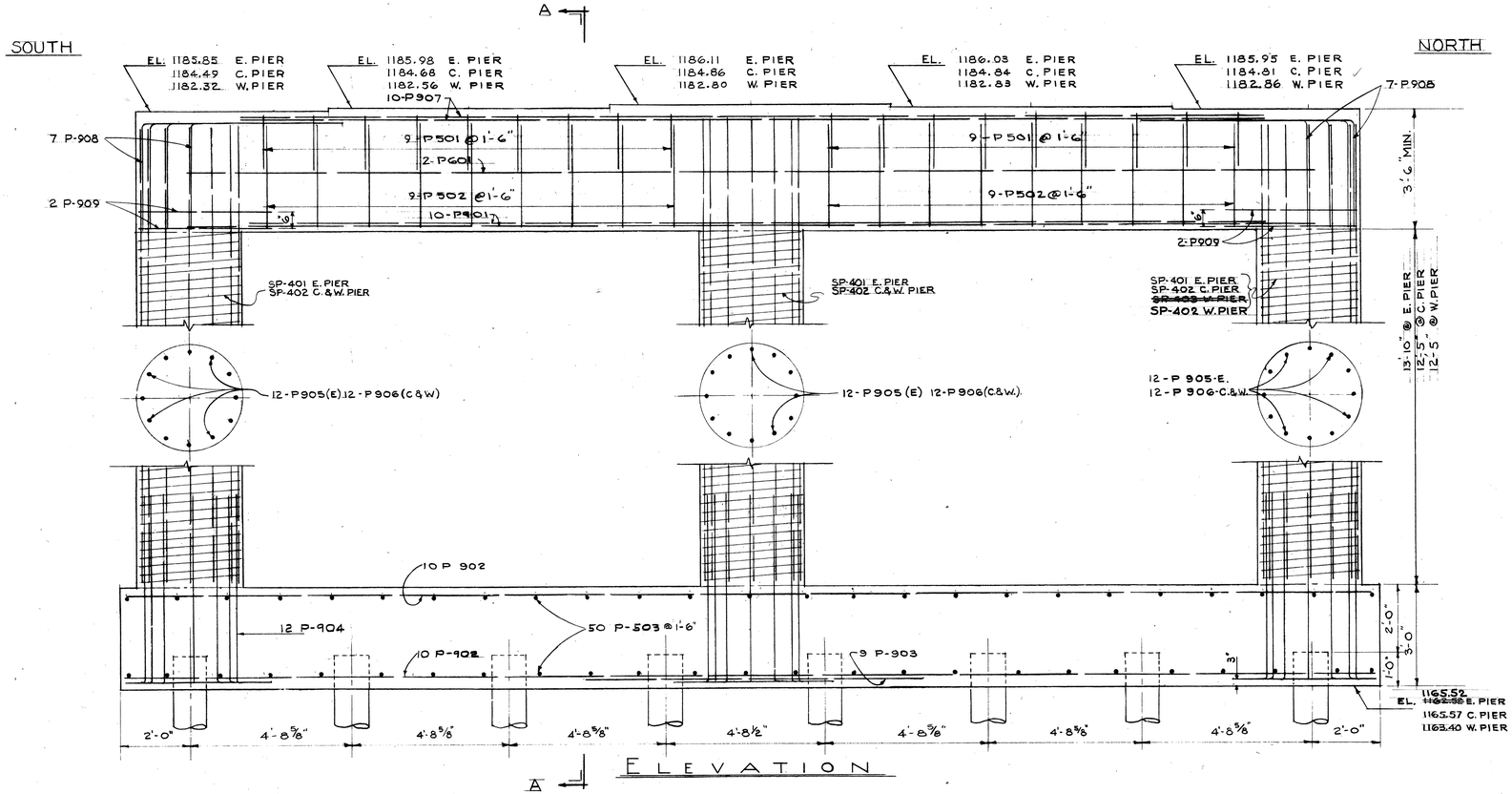
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

137/189

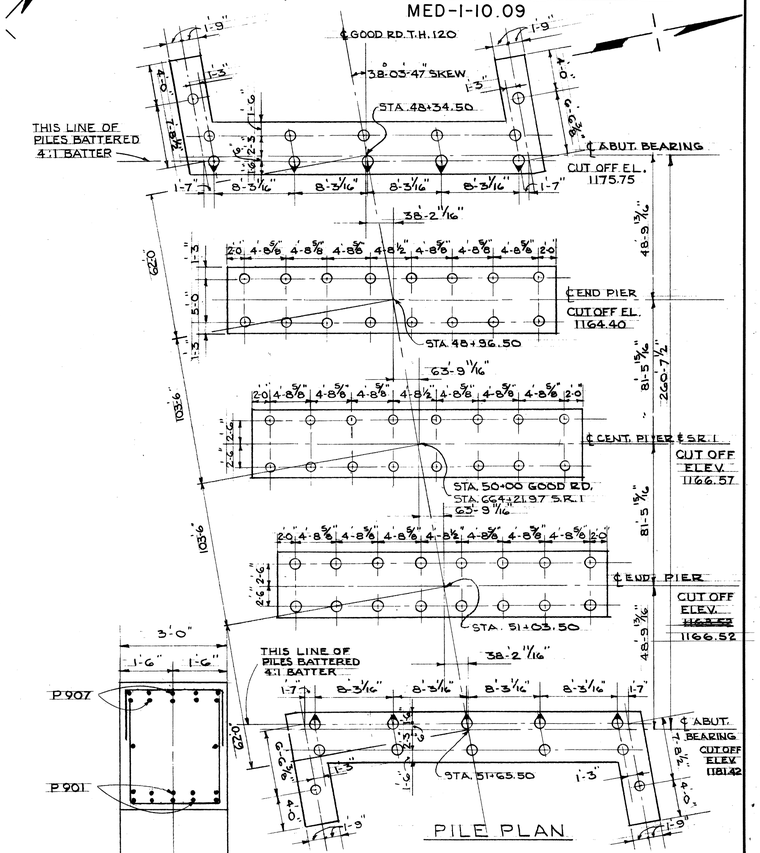
MED-1-10.09



PLAN



ELEVATION



PILE PLAN

SECTION A-A

NOTE

ALL REINFORCING STEEL TO HAVE A 2" MIN. COVER EXCEPT WHERE OTHERWISE NOTED.

ALL PILES TO BE 12" MIN. TOP DIA. CAST IN PLACE IN CONCRETE.

SPECIAL CARE SHALL BE TAKEN IN PLACING REINFORCING STEEL IN THE CENTER PIER CAP SO THAT IT WILL NOT INTERFERE WITH THE BEARING PLATE ANCHOR BOLTS.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

PIER DETAILS

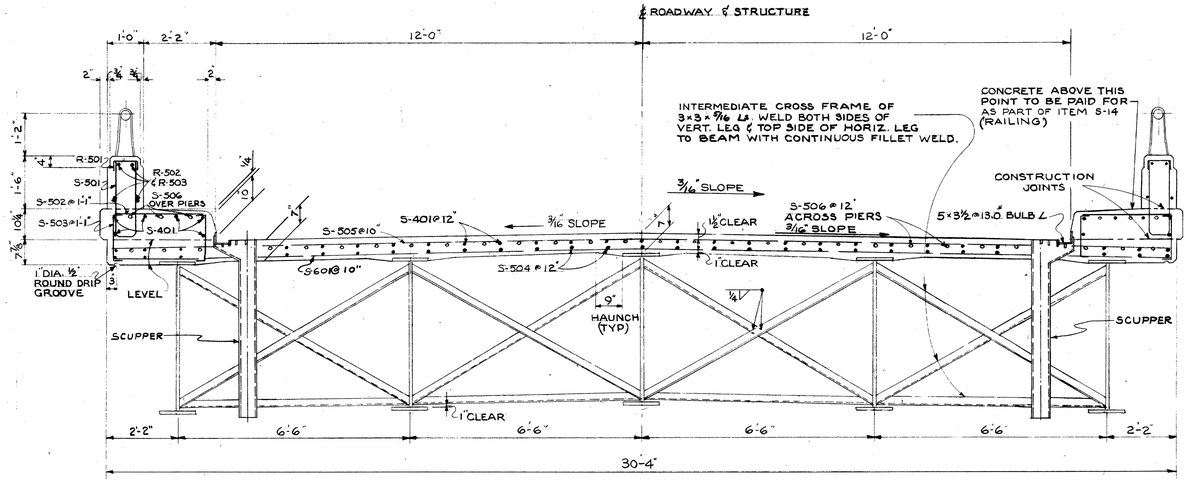
BRIDGE NO. MED-1-1091
UNDER GOOD ROAD T.H. 120
MEDINA COUNTY
STA. 664+21.97

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
EAK	BROWN		DHC			3.19.58

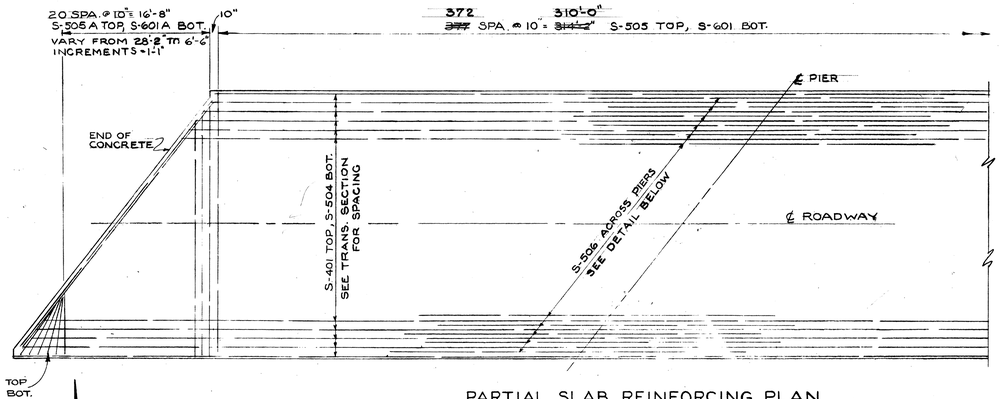
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

MED-1-10.09

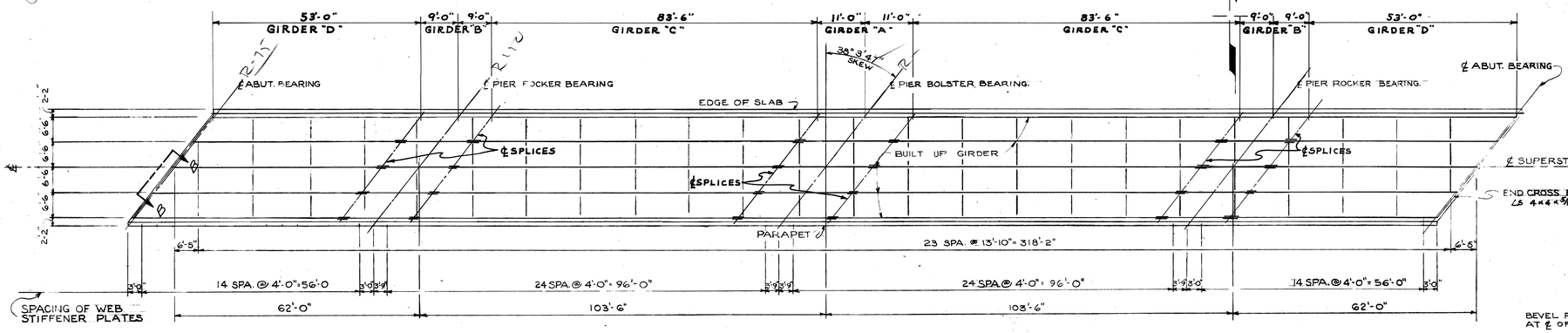
138
189



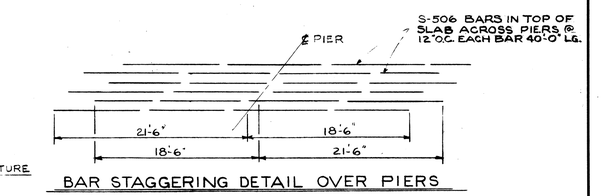
TRANSVERSE SECTION



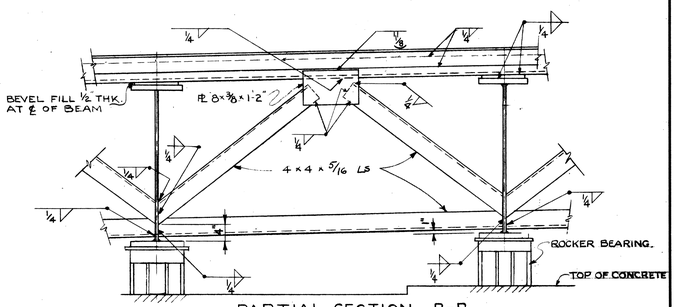
PARTIAL SLAB REINFORCING PLAN



FRAMING PLAN



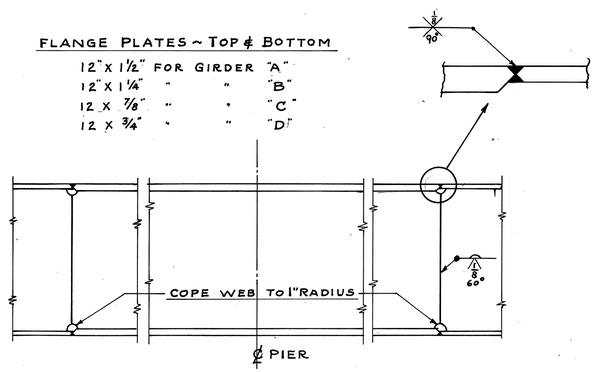
BAR STAGGERING DETAIL OVER PIERS



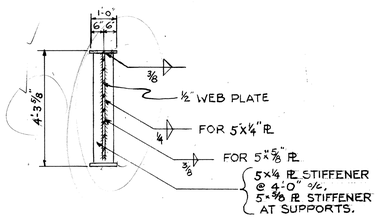
PARTIAL SECTION B-B

FLANGE PLATES ~ TOP ℄ BOTTOM

12"x 1 1/2" FOR GIRDER "A"
12"x 1 1/4" " " "B"
12 x 7/8" " " "C"
12 x 3/4" " " "D"



GIRDER SPLICE DETAIL



DETAIL OF PLATE GIRDER

DEFLECTION AND CAMBER				
LOCATION	OUTSIDE BEAMS		INSIDE BEAMS	
	END SPAN	MIDDLE SPAN	END SPAN	MIDDLE SPAN
DEFLECTION DUE TO WEIGHT OF STEEL	0.05	0.30	0.05	0.30
DEFLECTION DUE TO REMAINING DEAD LOAD	0.20	1.60	0.10	1.00
CONVEXITY REQUIRED FOR VERTICAL CURVE	0.70	1.85	0.70	1.85
SUM OF DEFLECTION AND CONVEXITY	0.95	3.75	0.85	3.15
REQUIRED CAMBER	1"	3 3/4"	1"	3 1/4"

NOTES:

(1) SLAB THICKNESS SHOWN INCLUDES 1/2" MONOLITHIC WEARING SURFACE.
(2) WELDING PROCEDURE:- BUTT WELD GIRDER FLANGES ℄ WEB AT SPLICES USING THE FOLLOWING SEQUENCE: MAKE ONE PASS ON EACH FLANGE, THEN ONE ON WEB. REPEAT UNTIL WELD IS COMPLETED.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

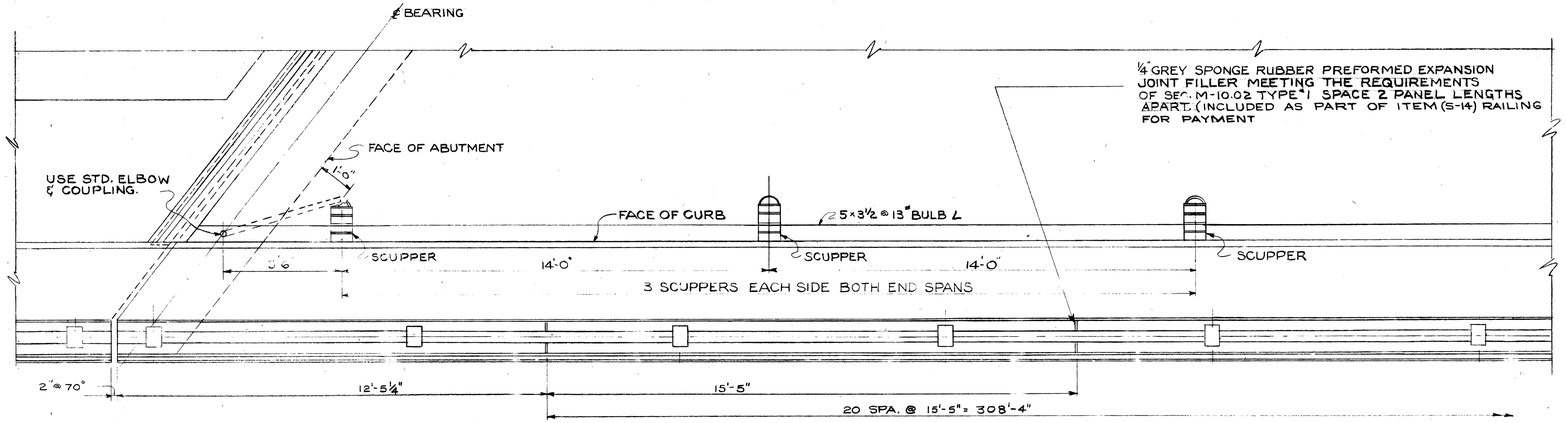
SUPERSTRUCTURE DETAILS
BRIDGE NO. MED-1-1091
UNDER GOOD ROAD TH. 120
MEDINA COUNTY
STA. 664+21.97

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
EAK	JLH		DHC			3.19.58

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

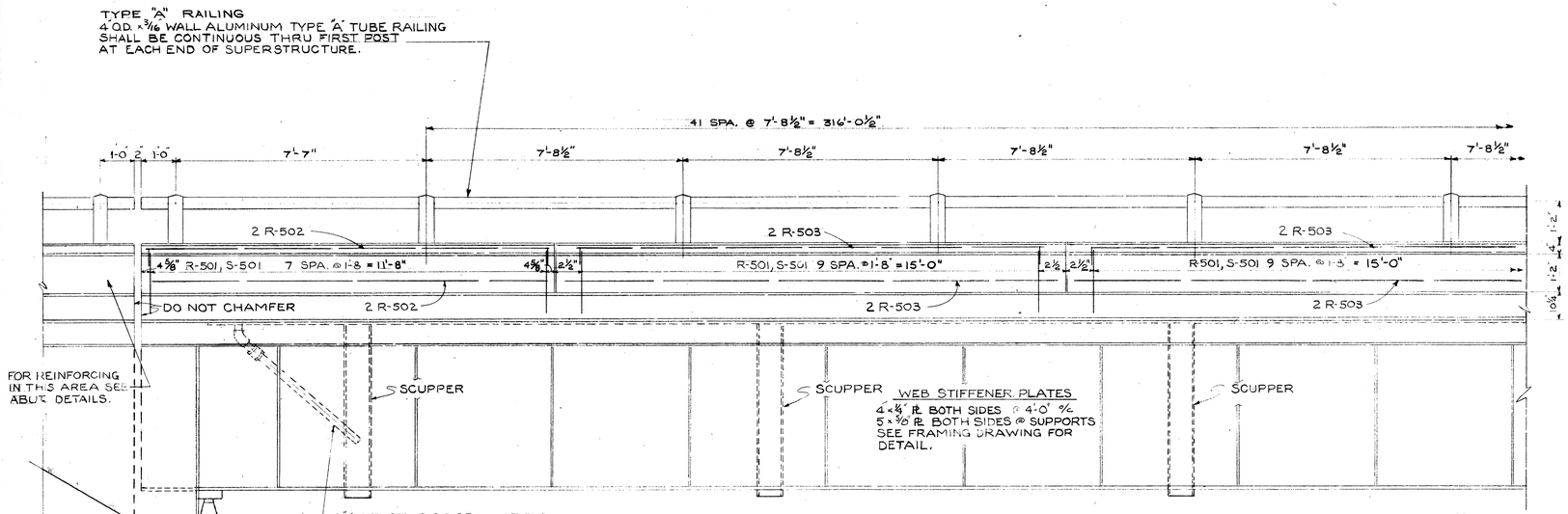
139
189

MED-I-10.09

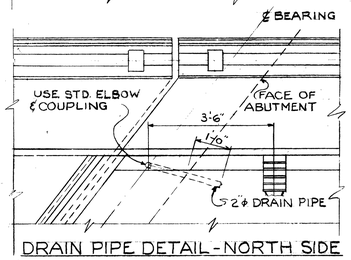


PART DECK PLAN
(OPPOSITE HAND SIMILAR)

TYPE "A" RAILING
4" O.D. x 3/16 WALL ALUMINUM TYPE 'A' TUBE RAILING SHALL BE CONTINUOUS THRU FIRST POST AT EACH END OF SUPERSTRUCTURE.



ELEVATION



DRAIN PIPE DETAIL - NORTH SIDE

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

DRAINAGE & RAILING DETAILS

BRIDGE NO. MED-I-1091
UNDER GOOD ROAD T.H. 120
MEDINA COUNTY
STA. 664+21.97

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
E.A.K.	J.L.H.		D.H.C.			

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

140
189

MED-I-10.09

REINFORCING STEEL SCHEDULE

MARK No.	NUMBER REQ'D.	LENGTH	WEIGHT IN LBS.	SHAPE	
ABUTMENTS					
A-501	78	5'-5"	441	ST.	
A-502	16	33-0	561	ST.	
A-503	4	11-6	48	ST.	
A-504	2	8-3	17	ST.	
A-505	22	3-4	76	ST.	
A-506	78	5-1	416	BT.	
A-507	132	5'-11	815	BT.	
A-508	18	37-1	696	ST.	
A-509	8	11-6	96	BT.	
A-510	8	11-0	92	BT.	
A-511	8	7-11	66	ST.	
A-512	8	2-9	23	ST.	
A-513	84	7-3	635	ST.	
A-514	2	7-8	16	ST.	
A-515	28	3-2	92	ST.	
A-516	46	6-5	308	BT.	
A-517	2	10-9	22	ST.	
A-518	2	9-0	19	ST.	
A-519	2	10-4	22	ST.	
A-520	2	7-1	15	ST.	
A-521	2	13-3	28	ST.	
A-522	2	11-6	24	ST.	
A-523	2	12-10	27	ST.	
A-524	2	9-7	20	ST.	
A-525	2	15-9	33	ST.	
A-526	2	14-0	29	ST.	
A-527	2	15-4	32	ST.	
A-528	2	12-1	25	ST.	
A-529	2	6-10	15	ST.	
A-530	2	5-0	10	ST.	
A-531	4	22-1	92	ST.	
A-532	4	20-4	85	BT.	
A-533	4	21-8	90	ST.	
A-534	4	18-5	77	BT.	
A-535	4	7-5	31	BT.	
A-536	4	9-2	38	BT.	
A-537	2	35-7	74	ST.	
A-538	8	30-1	251	ST.	
A-539	62	1-9	113	BT.	
A-540	168	3-11	686	BT.	
A-541	12	1-4	17	BT.	
A-542	40	3-5¼	144	BT.	
A-543	4	3-4¾	15	BT.	
A-544	4	3-4	14	BT.	
A-545	4	3-2½	14	BT.	
A-546	4	3-0¾	13	BT.	
A-547	4	2-10¾	12	BT.	
A-548	4	2-8	11	BT.	
A-549	4	2-5	10	BT.	
A-550	4	2-1½	9	BT.	
A-551	4	1-9¾	8	BT.	
A-552	4	1-5¾	7	BT.	
A-553	4	21-10	91	BT.	
A-554	4	17-8	74	BT.	
A-555	4	16-6	69	ST.	
A-556	4	13-9	57	ST.	
A-557	2	18-3	77	ST.	
A-558	2	17-2	36	ST.	
A-559	6	20-0	125	ST.	
A-560	6	18-8	117	ST.	
A-561	40	5-8¼	238	BT.	
A-562	2	6'-10"	15	BT.	
A-563	2	5'-0"	10	BT.	
			1735	TOTAL	7,420
A-601	~~78~~ 70	16-6	~~1285~~	BT	TOTAL
A-602	8	38'-6	463	~~BT~~ ST.	~~2308~~
GRAND TOTAL FOR ABUTMENTS					~~9827~~ 9,627

MARK No.	NUMBER REQ'D.	LENGTH	WEIGHT IN. LBS.	SHAPE	
SLAB					
S-401	473	31-6"	9,954	ST.	
				TOTAL	9,954
S-501	432	4-7	2,065	BT.	
S-502	616	2-8	1,713	ST.	
S-503	1232	2-0	2,570	BT.	
S-504	341	32-0	11,382	ST.	
S-505	373	30-0	11,672	ST.	
S-505A SERIES	42	VARIES FROM 28'-2" TO 6'-6" INCREMENTS OF 1'-1"	759	ST.	
	108	40'-0"	4506		
S-506	~~390~~	~~32-4~~	~~13,353~~	ST.	
S-507	10	5'-5"	56	ST.	
				TOTAL	~~42,570~~
S-601	373	30-0	16,808	ST.	
S-601A SERIES	42	VARIES FROM 28'-2" TO 6'-6" INCREMENTS OF 1'-1"	1,093	ST.	
S-602	10	5'-5"	81	ST.	
				TOTAL	17,982
GRAND TOTAL FOR SLAB					~~71,505~~ 62,659
RAILING (INCLUDED AS PART OF ITEM S-14 FOR PAYMENT)					
R-501	472	1-5		BT.	
R-502	16	12-0		ST.	
R-503	160	15-0		ST.	
R-504	8	18-6		ST.	
R-505	8	17-3		ST.	
PIERS					
P-501	54	5-6	309	BT.	
P-502	54	8-0	477	BT.	
P-503	150	7-2	1120	ST.	
				TOTAL	1,906
P-601	6	33-4	300	ST.	
				TOTAL	300
P-901	30	33-4	3,400	ST.	
P-902	60	36-8	7,481	ST.	
P-903	27	10-0	918	ST.	
P-904	108	6-4	2,322	BT.	
P-905	36	17'-0	2,081	ST.	
P-906	72	15'-7	3,814	ST.	
P-907	30	30'-0"	3,060	ST.	
P-908	42	8'-7"	1,226	BT.	
P-909	12	8'-10"	360	BT.	
				TOTAL	24,662
GRAND TOTAL FOR PIERS					26,868

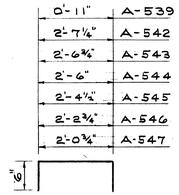
SPIRAL REINFORCEMENT OF PIERS

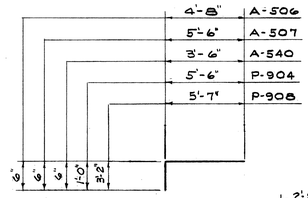
MARK No.	NUMBER REQ'D.	COVER DIA OF SPIRAL	LENGTH OF SPIRAL	PITCH	No. OF TURNS	WEIGHT IN LBS.
SP-401	3	2'-8"	13'-10"	4"	44	727
SP-402	6	2-8	12'- 5"	4	40	1322
SPACER	36					311
					TOTAL	2,360

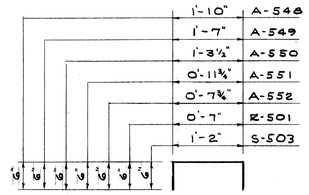
REPLACEMENT STEEL

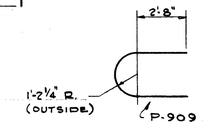
RE-402	1	5'-3"		BT.	
RE-401	1	5'-3"		ST.	
RE-501	3	5'-6"		ST.	
RE-601	1	6'-0"		ST.	
RE-901	2	6'-10"		ST.	

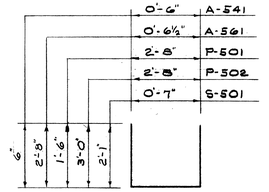
TOTAL STEEL FOR BRIDGE WITHOUT RAILINGS = ~~110,501~~ 101,514

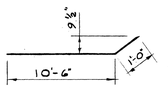


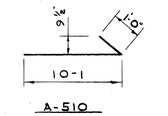












SPIRAL REINFORCING NOTES

FOUR STEEL CHANNEL, TEE, OR ANGLE SPACERS WEIGHING APPROXIMATELY 0.68 LB. PER LIN. FT. OF SPACER, SHALL BE PROVIDED FOR EACH SPIRAL UNIT. THEY SHALL BE EQUALLY SPACED ALONG THE PERIPHERY OF THE COIL. THE WEIGHT OF THESE SPACERS WILL BE PAID FOR AS REINFORCING STEEL AND IS INCLUDED IN THE TABULATED QUANTITY OF SPIRAL BARS.

THE LENGTH SHOWN IN SCHEDULE FOR SPIRAL BARS IS THE DISTANCE FROM THE TOP OF THE FOOTING TO BOTTOM OF PIER CAP.

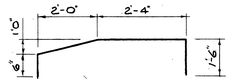
THE No. OF TURNS SHOWN IN THE SCHEDULE FOR SPIRAL BARS IS THE LENGTH DIVIDED BY THE PITCH PLUS THREE TURNS (TOTAL NUMBER OF CLOSED COILS.) EXPRESSED AS THE NEAREST WHOLE NUMBER.

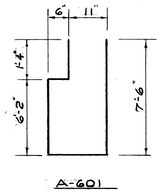
SPIRAL REINFORCING BARS SHALL NOT HAVE DEFORMATIONS BUT SHALL IN OTHER RESPECTS CONFORM TO ITEM S-4 (REINFORCING STEEL).

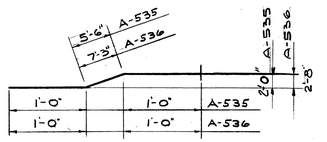
1½ CLOSED COILS SHALL BE PROVIDED AT THE END OF EACH SPIRAL UNIT.

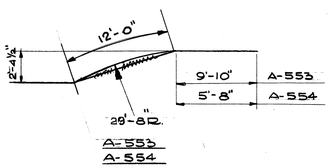
BAR SIZE IS INDICATED IN THE BAR MARK, THE FIRST DIGIT INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE: S-401 IS A No. 4 SIZE BAR.

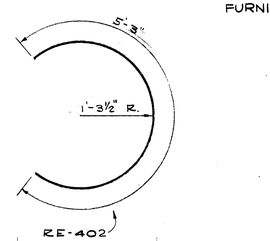
REPLACEMENT BARS: IF REINFORCING BARS ARE FABRICATED FROM STOCK WHICH HAS PREVIOUSLY BEEN TESTED AND APPROVED BY THE OHIO HIGHWAY TESTING LABORATORY, TEST SAMPLES AS PROVIDED IN SEC. S-4.02 NEED NOT BE FURNISHED AND REPLACEMENT BARS WILL NOT BE REQUIRED.











STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

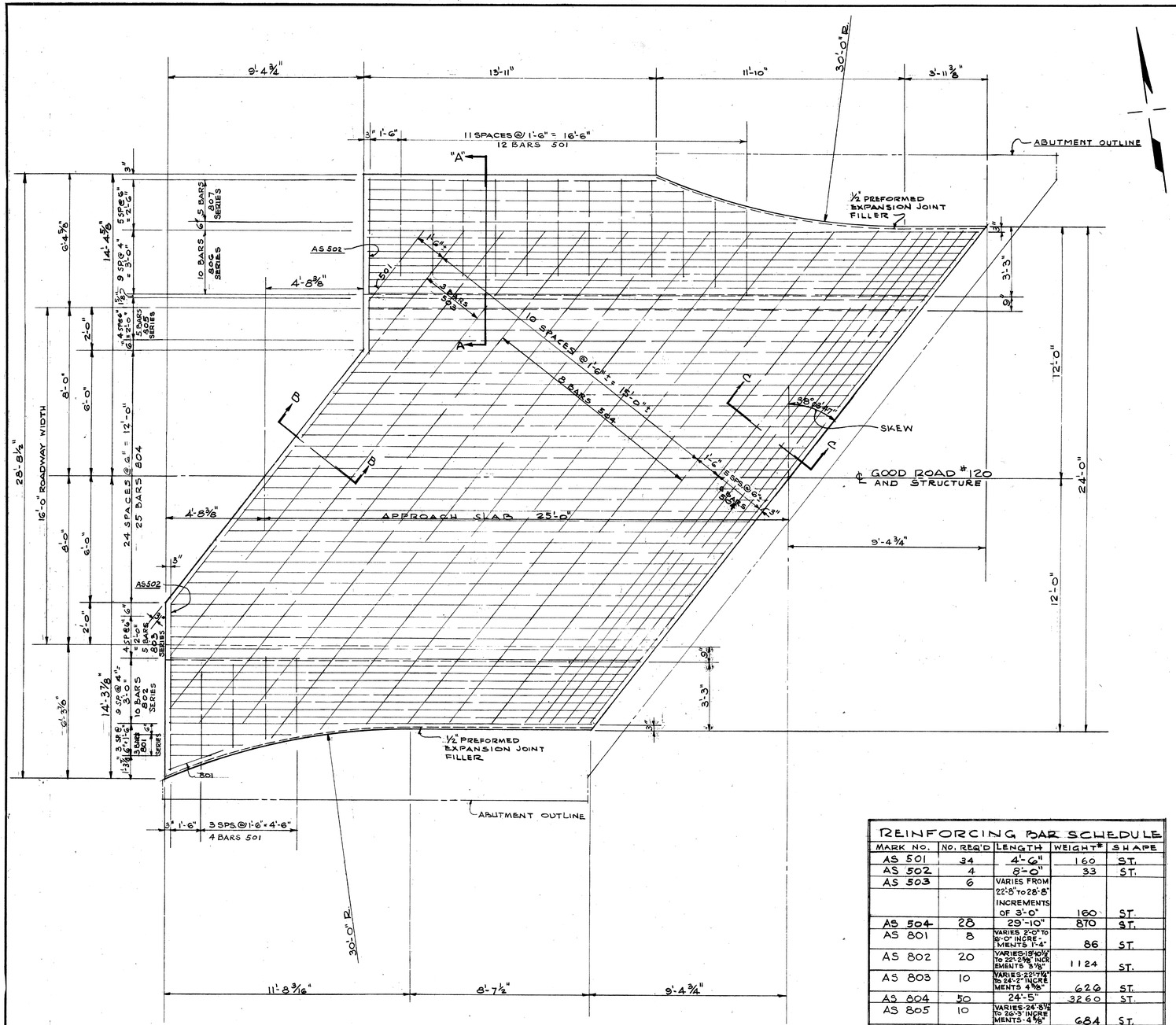
REINFORCING STEEL LIST
BRIDGE NO. MED-I-1091
UNDER GOOD ROAD T.H. 120
MEDINA COUNTY
STA. 664 + 21.97

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
EAY	SEM		DHC			3.19.58

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

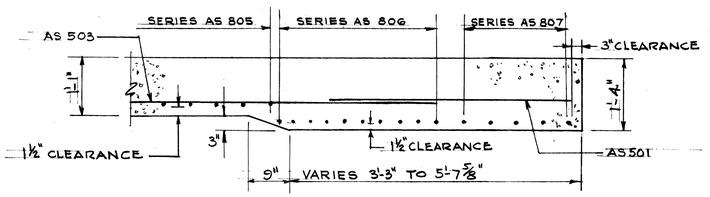
141/189

MED-1-10.09

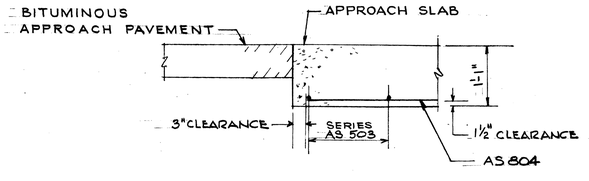


WEST APPROACH SLAB AS SHOWN
EAST APPROACH SLAB SAME EXCEPT REVERSE DIRECTION

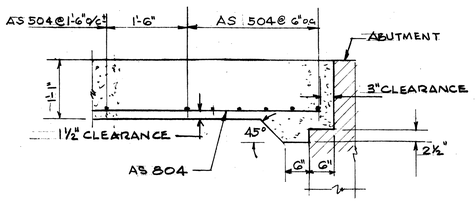
PLAN



SECTION A-A



SECTION B-B



SECTION C-C

REINFORCING BAR SCHEDULE				
MARK NO.	NO. REQ'D	LENGTH	WEIGHT#	SHAPE
AS 501	34	4'-6"	160	ST.
AS 502	4	8'-0"	33	ST.
AS 503	6	VARIES FROM 22'-8" TO 28'-8" INCREMENTS OF 3'-0"	160	ST.
AS 504	28	29'-10"	870	ST.
AS 801	8	VARIES 5'-0" TO 8'-0" INCRE-MENTS 1'-4"	86	ST.
AS 802	20	VARIES-15'-10½" TO 22'-2⅝" INCREMENTS 3'⅛"	1124	ST.
AS 803	10	VARIES-22'-1⅞" TO 24'-2" INCRE MENTS 4⅝"	626	ST.
AS 804	50	24'-5"	3260	ST.
AS 805	10	VARIES-24'-8⅛" TO 26'-3" INCRE MENTS-4⅝"	684	ST.
AS 806	20	VARIES-26'-8⅜" TO 28'-1" INCRE MENTS 3⅛"	1480	ST.
AS 807	10	VARIES 19'-8" TO 20'-4½ INCRE-MENTS OF 1'-8"	454	ST
TOTAL			8937	LBS.

NOTE:
QUANTITIES GIVEN ARE FOR TWO APPROACH SLABS.

NOTE:
PREFORMED EXPANSION JOINT FILLER SHALL BE INCLUDED IN THE PRICE BID FOR ITEM I-7 REINFORCED CONCRETE APPROACH SLAB.

PY GOOD RD.

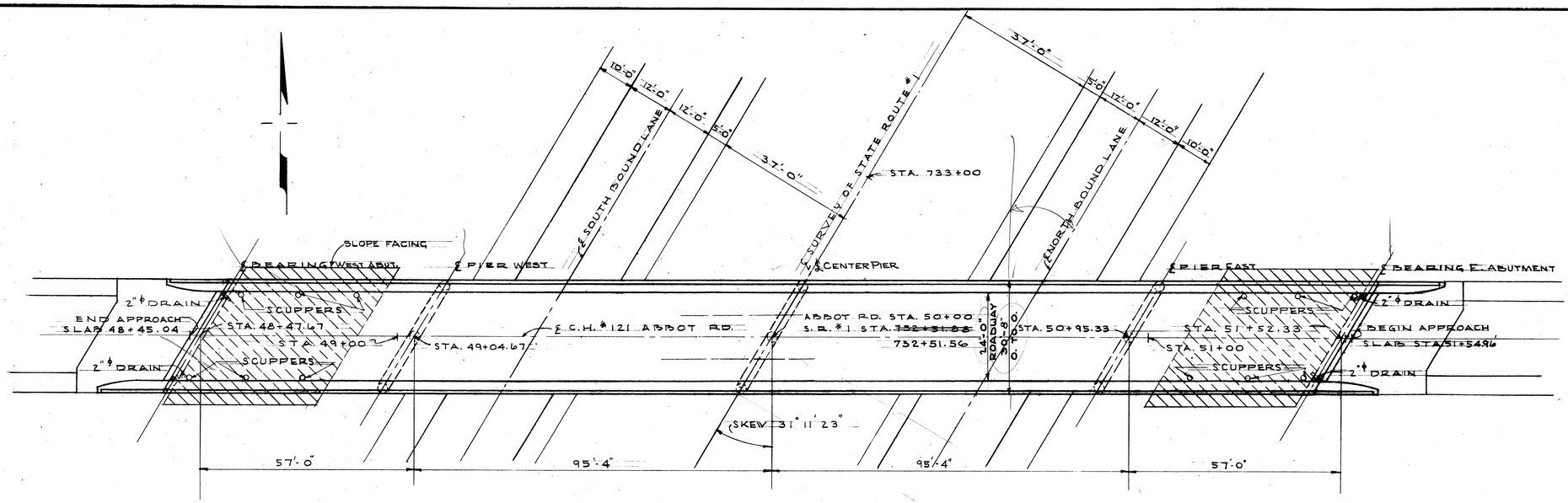
APPROACH SLAB DETAILS BRIDGE NO. MED-1-1091


FED. RD. | STATE | PROJECT
2 | OHIO | I-1105(25)
142
189
MED-1-10.09
Oat Field
Oat Field
End Approach Slab
Sta. 48+45.04
Sta. 48+45.04
El. 1251.08
4 CAR GARAGE
South bound traffic
Pt. min. clearance
5" PEACH
4" DRAIN TILE
31°-11'-23" Skew
4-12" PEAR
MILK HO. & WELL
2" BLUE SPRUCE
PEONY BUSHES
STA. 732+51.56
Survey of State Route #1
Drive
12" ELM
HOUSE
730+00
731+00
732+00
733+00
734+00
735+00
SEWER
SEWER
1" MAPLE
14" PEAR
14" PEAR
12" PEAR
8" V.C.P.
P.P.
12" TWIN PEAR
2" MAPLE
HOUSE
2-MAIL BOXES
C.H. #121 Abbott Road
10" V.C.P. Existing
North bound traffic
24" CHERRY
1 STR. ELEC. FENCE
P.P.
4' Rounding
5' 18' 5' 4' Rounding
7' with guard rail
5' without guard rail
3/4"/Ft.
1/2"/Ft.
4:1 Under 10'
2:1 Over 10'
1' Min.
Road Section C.H. #121
Corn Field
Begin Approach Slab
Sta. 51+54.96
PROPOSED STRUCTURE
TYPE: CONTINUOUS STEEL BEAM WITH REINFORCED CONCRETE DECK & SUBSTRUCTURE.
SPAN: 57'-95.33-95.33-57 C/C BRGS.
ROADWAY: 24' F/F 2'-0" SAFETY CURBS
LOAD FREQUENCY: CF130
SKEW: 31°-11'-23" LF
WEARING SURFACE: 3/4" MONOLITHIC
APPROACH SLAB: 25' LONG
ALIGNMENT: STRAIGHT
SUPERELEVATION: NONE
48+00
49+00
50+00
51+00
52+00
1250.28
1251.15
1251.74
1252.03
1252.03
1251.74
1251.15
1250.28
1249.11
15.01'
Min. clearance
+3.50% Grade V.C. 600'
-3.50% Grade V.C. 600'
P.V.I. Sta. 49+15
El. 1251.82
Bridge Limits 309.82'
2:1 Normal
2:1 Normal
Existing Grade
ESTIMATED AVERAGE PAY LENGTH 30'-0" AT PIERS
ESTIMATED AVERAGE PAY LENGTH 45'-0" AT ABUTS.
Sta. 51+54.96
El. 1250.18'
1260
1240
1220
1233.90
1233.70
1233.50
1233.30
1233.10
1232.90
1232.70
1232.50
1232.30
1232.10
Min. clearance
Existing Grade
-0.40% Grade SR#1
FOUNDATION SOUNDINGS: FOUNDATION DESIGN AND FOUNDATION QUANTITIES ARE BASED ON A STUDY OF SOIL SAMPLING SOUNDINGS MADE AT THE SITE. THIS SOUNDING INFORMATION MAY BE INSPECTED AT THE INTER-STATE PROJECTS OFFICE IN COLUMBUS OR IN THE DIVISION OFFICE, BUT THE STATE DOES NOT GUARANTEE THE ACCURACY THEREOF.
Traffic Count -560 ADT 1975
STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES
BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO
SITE PLAN
BRIDGE No MED.-1-1220
UNDER ABBOTT ROAD C.H. No 121
MEDINA COUNTY
STA. 732+51.80
SCALE: 1" = 20'-0"
DESIGNED DHC | DRAWN EG | TRACED | CHECKED DHC | REVIEWED | DATE | REVISED 3.10.58

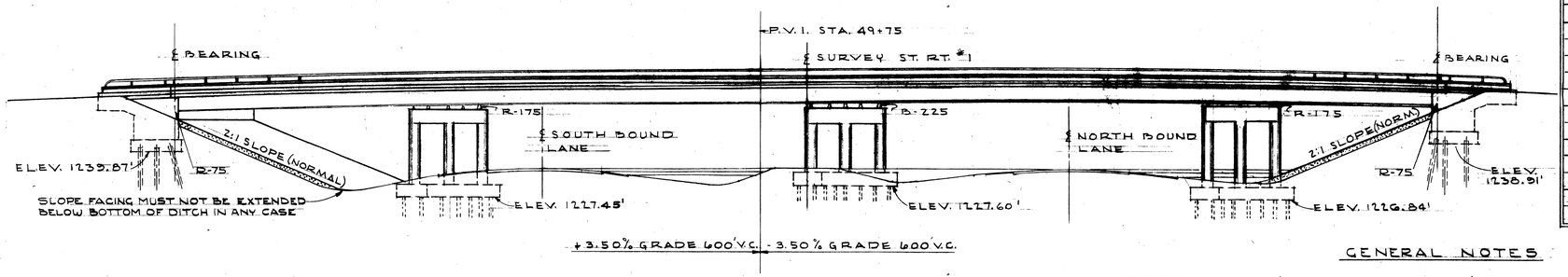
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

143/189

MED-I-10.09



PLAN



ELEVATION

WELDED STEEL: THE STEEL FOR THE 36" WF BEAMS SHALL CONFORM TO A.S.T.M. DESIGNATION A-373. ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO EITHER A.S.T.M. A-7 (AS PER SEC. N-7.4(6)) OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS) OR TO A-373.

SLOPE FACING: ONE FOOT DEEP EXTENDING FROM FACE OF ABUTMENT TO TOE OF SLOPE SHALL BE PROVIDED AT EACH ABUTMENT FOR FULL WIDTH OF BRIDGE PLUS THREE FEET ON EACH SIDE OF BRIDGE AND PARALLEL WITH ℄ OF SUPERSTRUCTURE.

WELDING OF STRUCTURAL STEEL SHALL BE CLASS "A" EXCEPT AS OTHERWISE SHOWN. ANY WELDS SHOWN AS FIELD WELDS MAY, AT THE OPTION OF THE CONTRACTOR, BE MADE IN THE SHOP.

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO THE REQUIRMENTS OF "DESIGN SPECIFICATIONS FOR HIGHWAY STRUCTURES" OF THE STATE OF OHIO, DEPARTMENT OF HIGHWAYS, DATED 9-1-57.

REFERENCE SHALL BE MADE TO STANDARD DRAWINGS RB-1-55 DATED 3-1-55, AR-1-57 DATED 4-9-57, CSB-2-56 SHTS. 2 & 3, DATED 12-3-56 AND TO SUPPLEMENTAL SPECIFICATIONS S-114 DATED 8-30-55.
SEE SHEET 175 THIS SET FOR ADDITIONAL DETAILS.

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER	ABUT	PIERS	GEN.		
E-2	LUMP	SUM	COFFERDAM, CRIBS, & SHEETING				LUMP		
E-2	349	CU. YDS.	UNCLASSIFIED EXCAVATION		214	135			
S-1	310	CU. YDS	CLASS "C" CONCRETE SUPERSTRUCTURE	310					
S-1	87	CU. YDS	CLASS "E" CONC. ABUTS ABOVE FOOTING		87				
S-1	69	CU. YDS.	CLASS "C" CONC. PIERS ABOVE FOOTINGS			69			
S-1	129	CU. YDS.	CLASS "E" CONC. PIER & ABUT. FOOTINGS		42	87			
	~~102,609~~				8736				
S-4	~~102,736~~	LBS.	REINFORCEMENT STEEL	66,182	~~8,868~~	27,701			
S-7	336,000	LBS.	STRUCTURAL STEEL	336,000					
S-8	336,000	LBS.	FIELD PAINTING OF STRUCTURAL STEEL	336,000					
	683								
S-14	~~685~~	LIN. FT.	RAILING (ALUM. RAIL & SUPPORTS - CONCRETE	683					
			PARAPET & END POSTS - REINF. STEEL)	~~685~~					
S-16	LUMP	SUM	FIRST TEST PILE						
S-18	2340	LIN. FT.	12" ϕ CAST-IN-PLACE REINF. CONC. PILES		1080	1260			
S-29	24	CU. YDS.	POROUS BACKFILL		24				
S-29	116	CU. YDS.	SLOPE FACING (S-29.05 TYPE)		116				

GENERAL NOTES

EXCAVATION QUANTITY: INCLUDES THE REMOVAL OF FILL MATERIAL BETWEEN THE SURFACE OF THE PROPOSED EMBANKMENT AND THE BOTTOM OF ABUTMENT. BACKF

CONCRETE DECK PLACING: IN ORDER TO FACILITATE WATER CURING OF THE CONCRETE DECK SLAB, THE PLACING OF CONCRETE SHALL PROGRESS UPGRADE. THE SLAB MAY BE PLACED IN SECTIONS, BETWEEN TRANSVERSE CONSTRUCTION JOINTS WHICH ARE NORMAL TO THE CENTERLINE OF BRIDGE AND ARE LOCATED NEAR THE CENTER OF ANY SPAN.

ALL PILES TO BE 12" MIN. TOP DIAMETER, CAST IN PLACE, CONCRETE PILES. BEARING CAPACITY OF 40 TONS PER PILE.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

GENERAL PLAN & ELEVATION

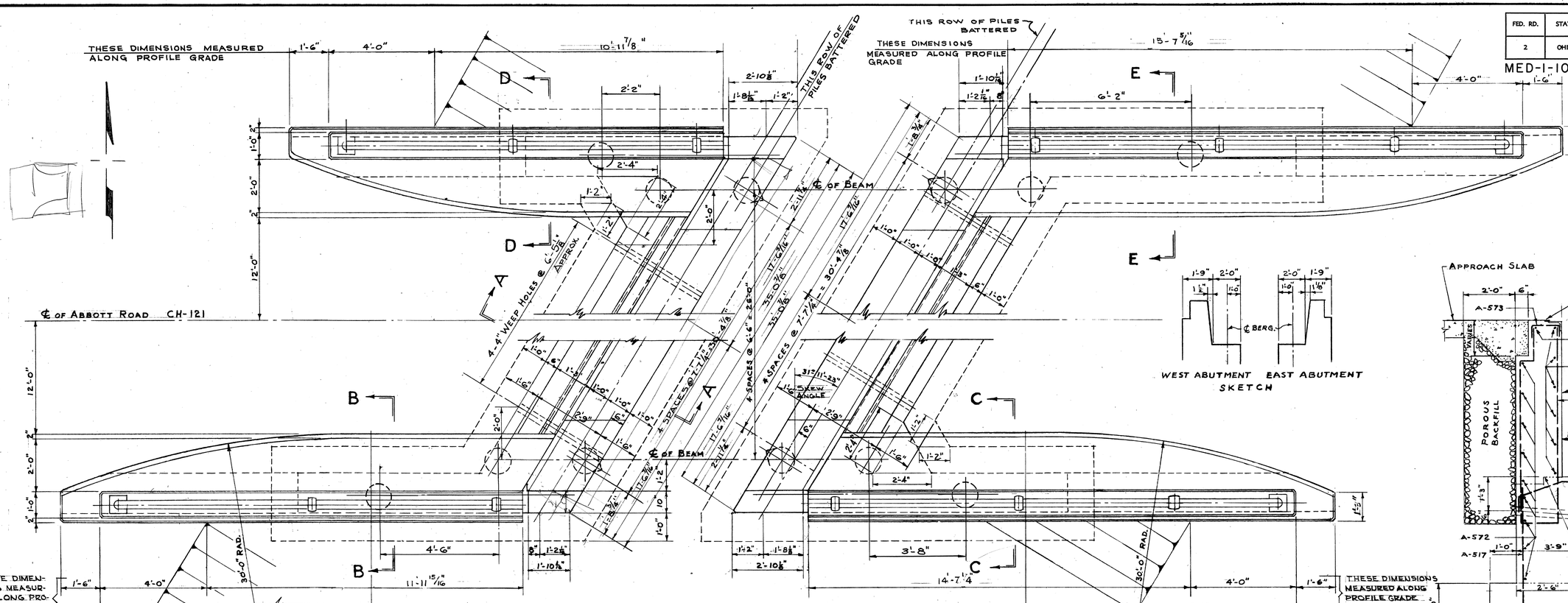
BRIDGE Nº MED. -I- 1220
UNDER ABBOTT ROAD C.H. Nº 121
MEDINA COUNTY
STA. 732 + 51.80

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
AMJ	Brown		DHC			3.10.58

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

144
189

MED-I-10.09



STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

ABUTMENT DETAILS

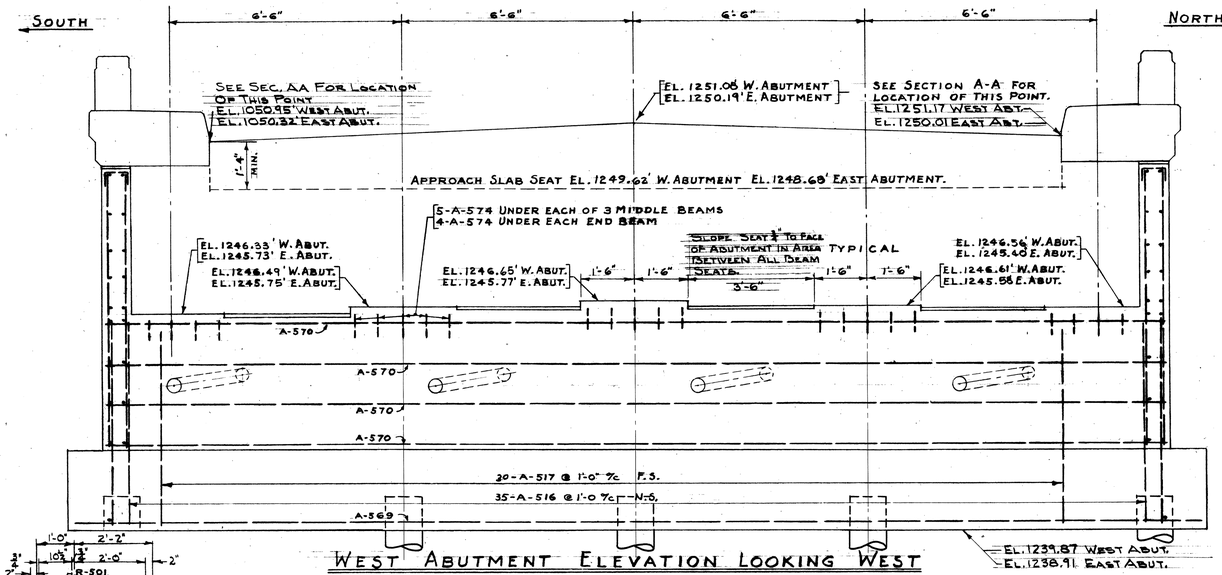
BRIDGE Nº MED. -I- 1220
UNDER ABBOTT ROAD C.H. Nº 121
MEDINA COUNTY
STA. 732 + 51.80

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
DHC	W.H.M.		DHC			3.19.58

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

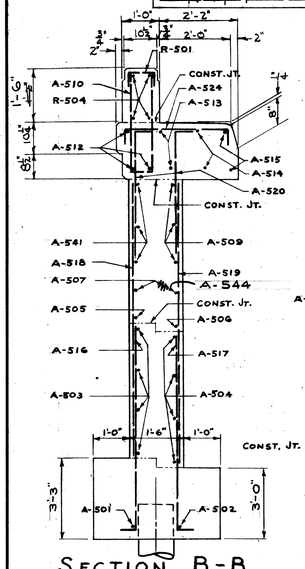
145
189

MED-I-10.09

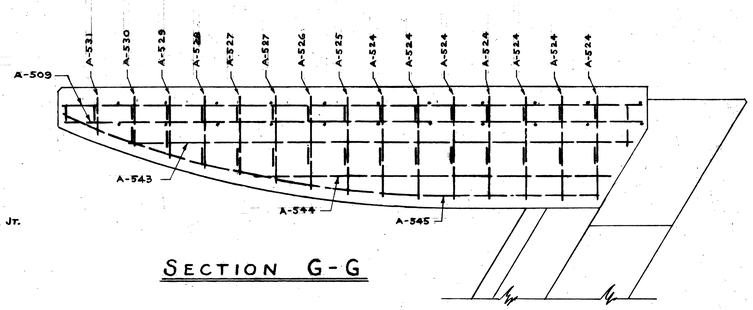


WEST ABUTMENT ELEVATION LOOKING WEST

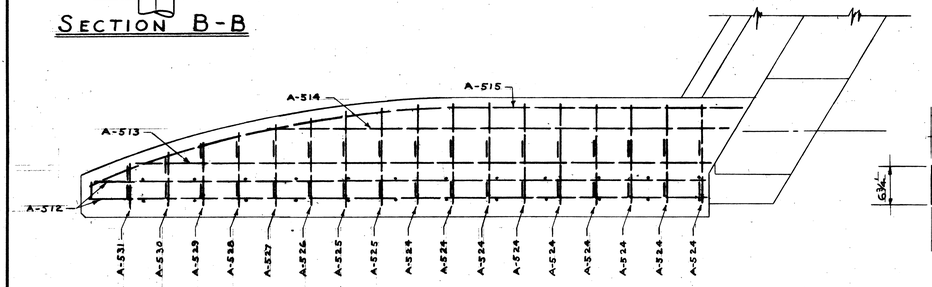
REFLECTED ELEVATION OF EAST ABUTMENT



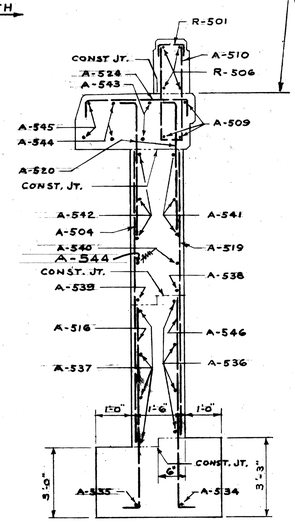
SECTION B-B



SECTION G-G

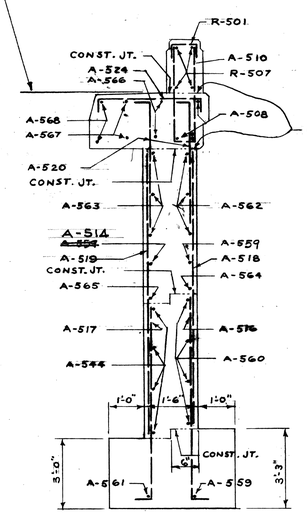


SECTION F-F

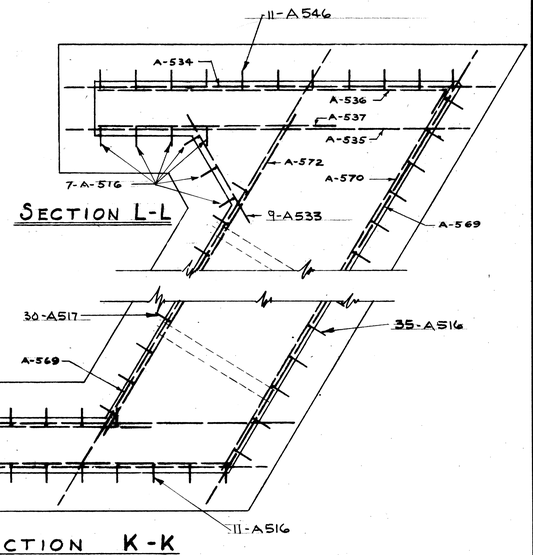


SECTION D-D

CONCRETE ABOVE THIS POINT TO BE INCLUDED WITH ITEM S-14 FOR PAYMENT.

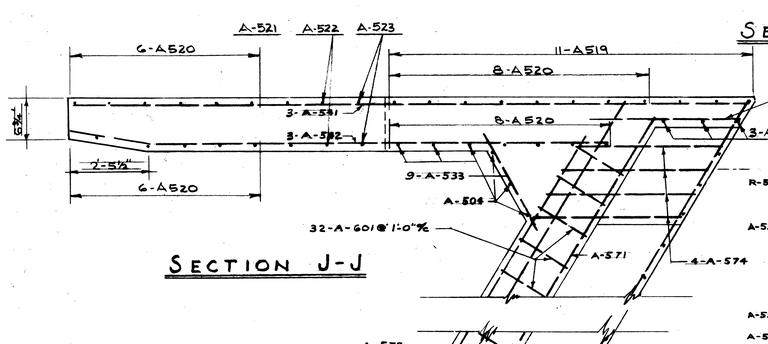


SECTION E-E

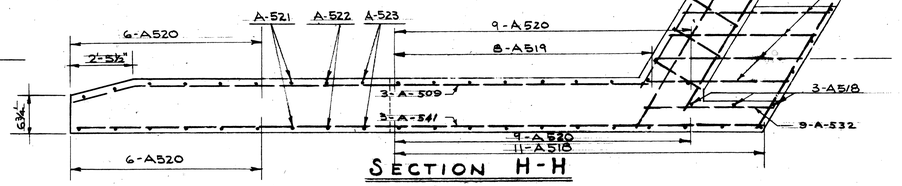


SECTION L-L

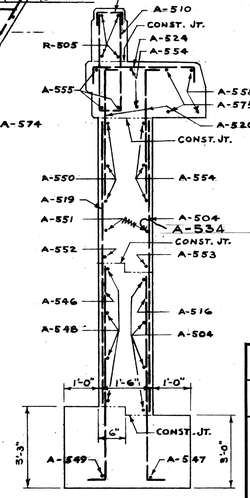
SECTION K-K



SECTION J-J



SECTION H-H



SECTION C-C

NOTE :-

ALL REINFORCING STEEL TO BE COVERED WITH 3" OF CONCRETE WHEN BEARING ON EARTH ALL OTHER REINFORCING STEEL MUST BE COVERED WITH 2" OF CONCRETE UNLESS OTHERWISE NOTED.

THE CONCRETE IN THE ABUTMENT BACKWALL SHALL NOT BE PLACED UNTIL AFTER THE STEEL WORK IS ERECTED, BUT SHALL BE PLACED BEFORE THE DECK SLAB CONCRETE IS PLACED.

EMBANKMENT: THE EMBANKMENT SHALL BE PLACED AND COMPACTED UP TO THE FINISHED SPILL-THRU SLOPE AND TO THE LEVEL OF THE SUBGRADE FOR A DISTANCE OF 100 FT. BACK OF THE ABUTMENTS, AFTER WHICH EXCAVATION SHALL BE MADE FOR ABUTMENTS.

THERE SHALL BE A MIN. TIME LAPSE OF 3 MONTHS BETWEEN PLACING OF ENBANKMENT AND DRIVING OF ABUTMENT PILES.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

ABUTMENT DETAILS

BRIDGE Nº MED -I- 1220

UNDER ABBOTT ROAD C.H. Nº 121

MEDINA COUNTY

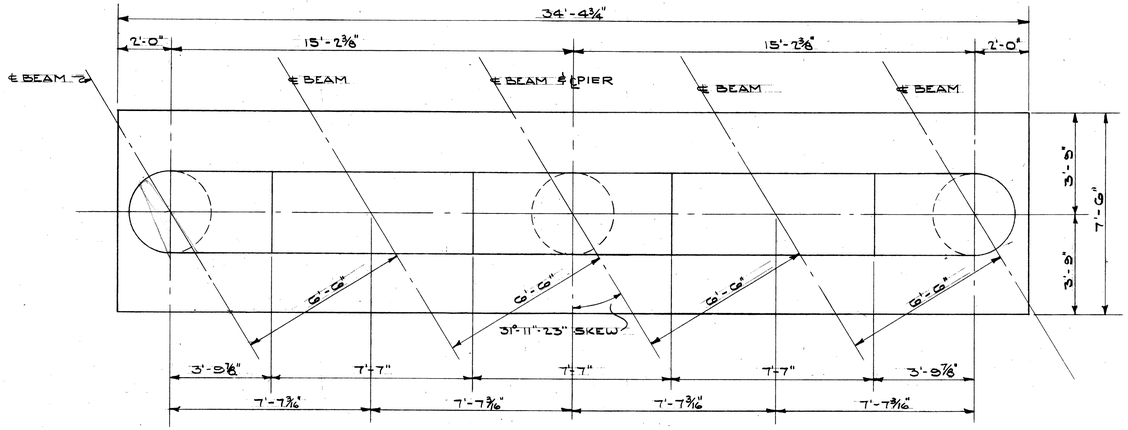
STA. 732 + 51.80

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
DHC	W.H.M.		DHC			3.19.58

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

140
189

MED-1-10.09



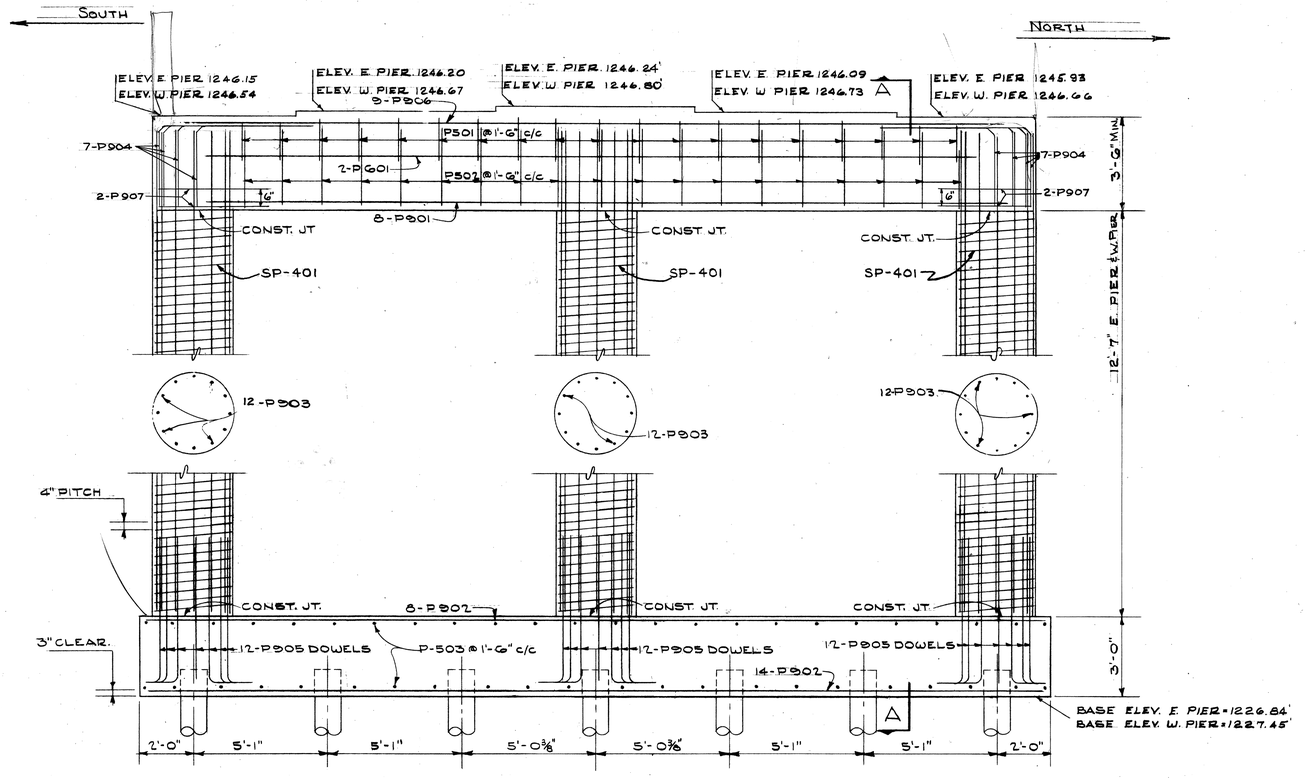
PLAN

NOTES

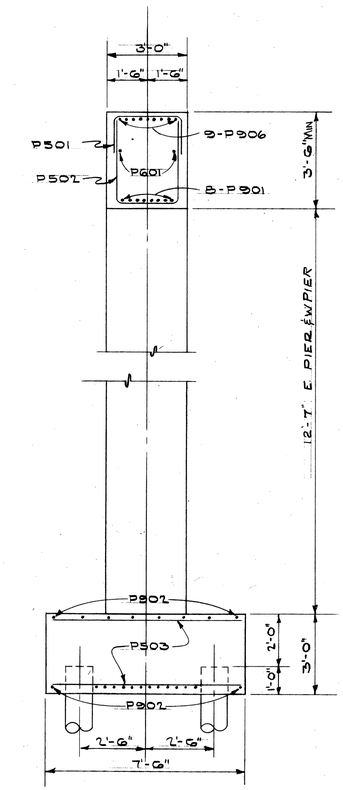
ALL REINFORCING STEEL TO HAVE A 2" MIN. COVER EXCEPT WHERE OTHERWISE NOTED.

ALL PILES TO BE 12" MIN. TOP DIAMETER CAST IN PLACE CONCRETE.

(E) DESIGNATES EAST PIER
(W) DESIGNATES WEST PIER



ELEVATION



SECTION A-A

EAST & WEST PIERS

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

PIER DETAILS

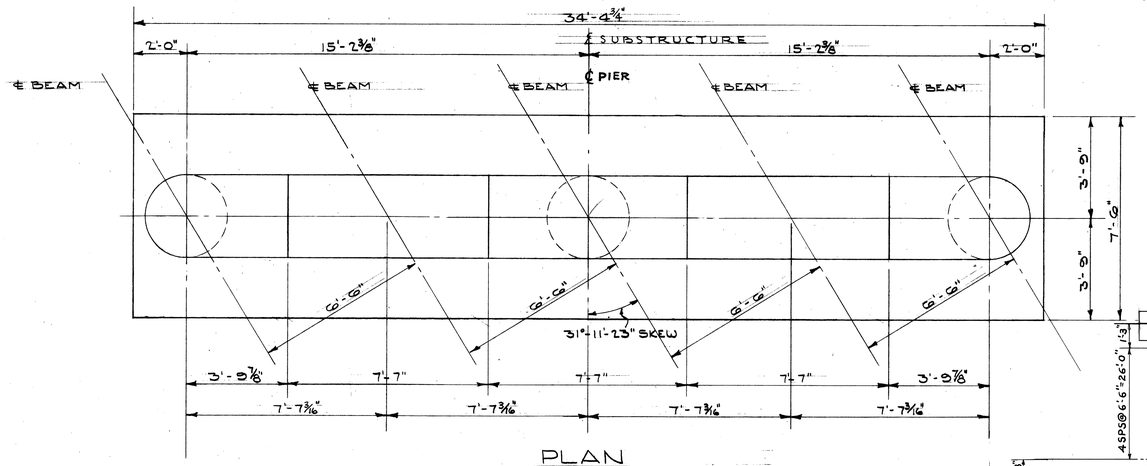
BRIDGE Nº MED. -1- 1220
UNDER ABBOTT ROAD C.H. Nº 121
MEDINA COUNTY
STA. 732 + 51.80

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
DHC	AC		DHC			

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

147/189

MED-1-10.09



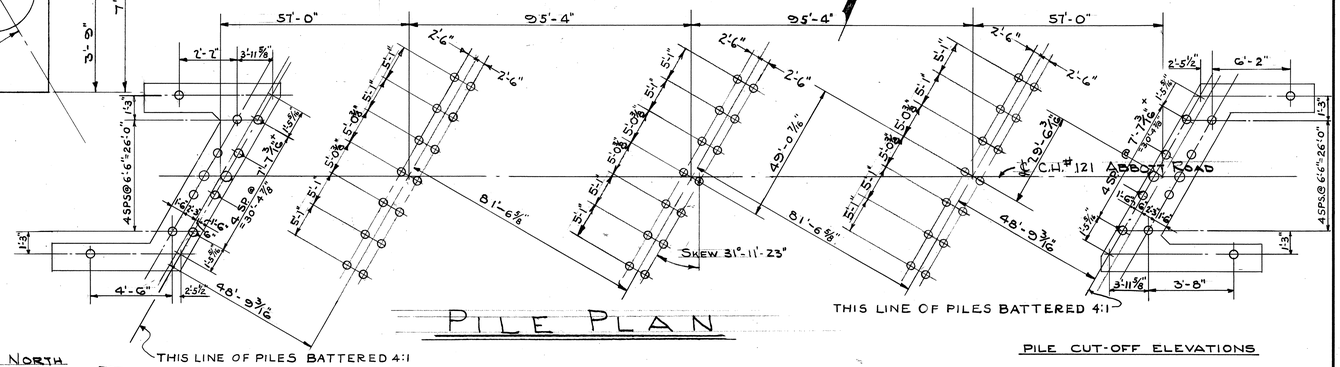
PLAN

NOTES

ALL REINFORCING STEEL TO HAVE A 2" MIN. COVER EXCEPT WHERE OTHERWISE NOTED.

ALL PILES TO BE 12" MIN. TOP DIA. CAST-IN-PLACE CONCRETE

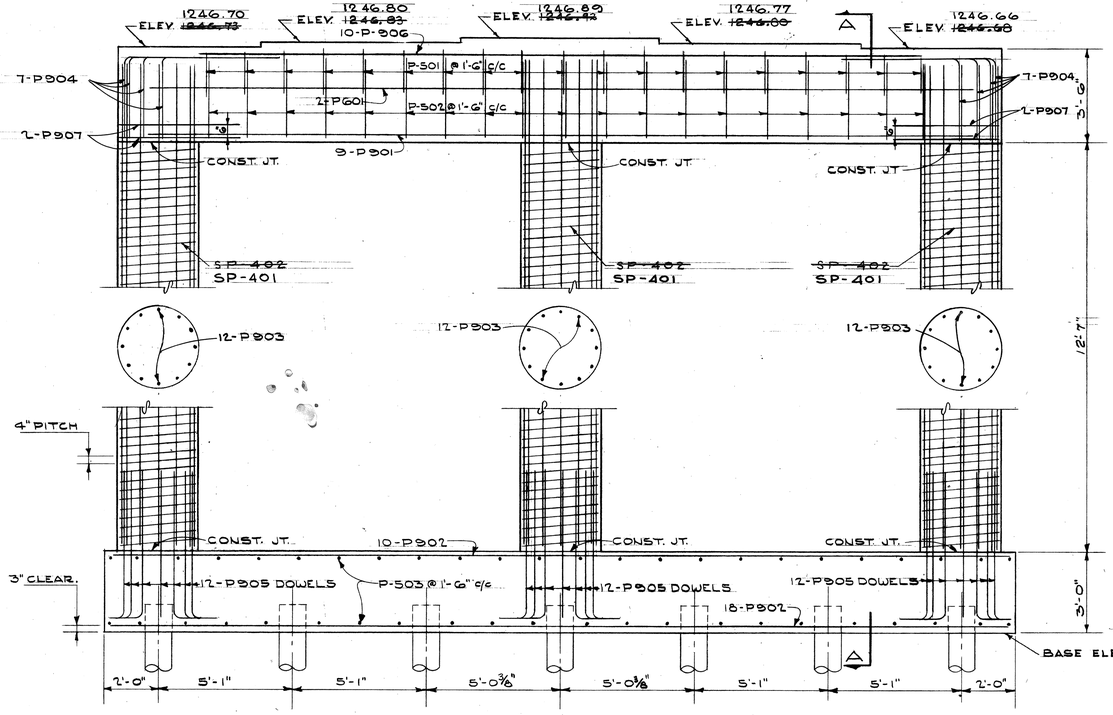
CARE MUST BE TAKEN IN PLACING REINFORCING STEEL IN ORDER TO CLEAR ANCHOR BOLTS WHERE THEY OCCUR.



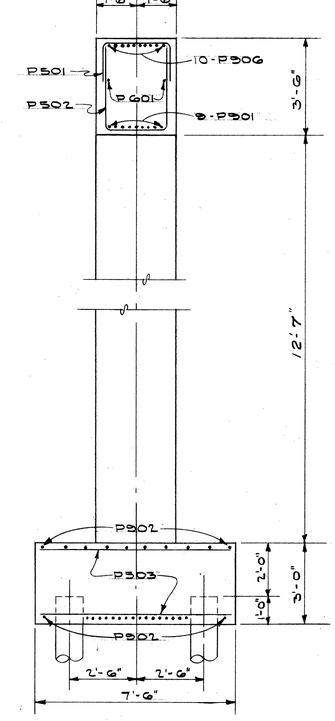
PILE PLAN

SOUTH

NORTH



ELEVATION



SECTION A-A

PILE CUT-OFF ELEVATIONS

E. ABUT. - 1239.91'
E. PIER - 1227.84'
CTR. PIER - 1228.60'
W. PIER - 1228.45'
W. ABUT. - 1240.87'

CENTER PIER

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

PIER DETAILS

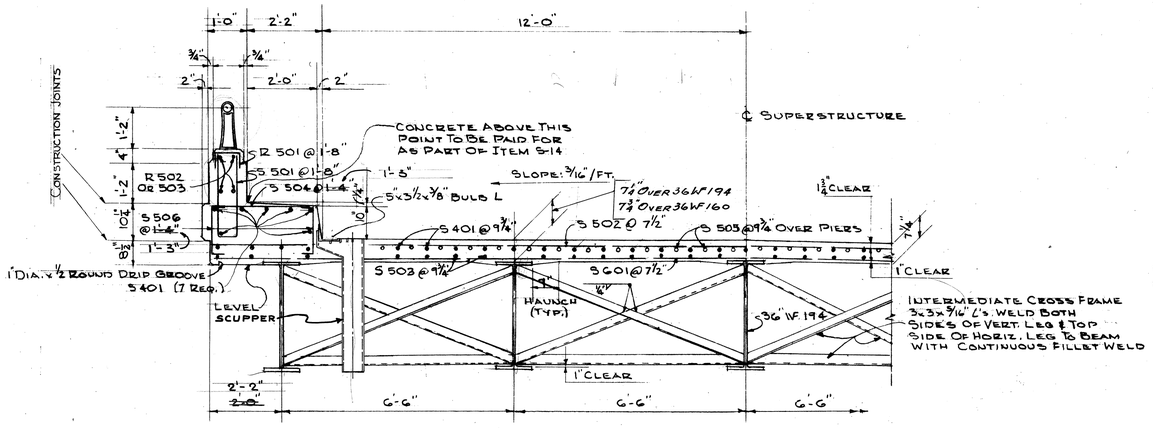
BRIDGE Nº MED. -1- 1220
UNDER ABBOTT ROAD C.H. Nº 121
MEDINA COUNTY
STA. 732 + 51.80

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
DHS	AC		DHC DHC			3.19.58

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

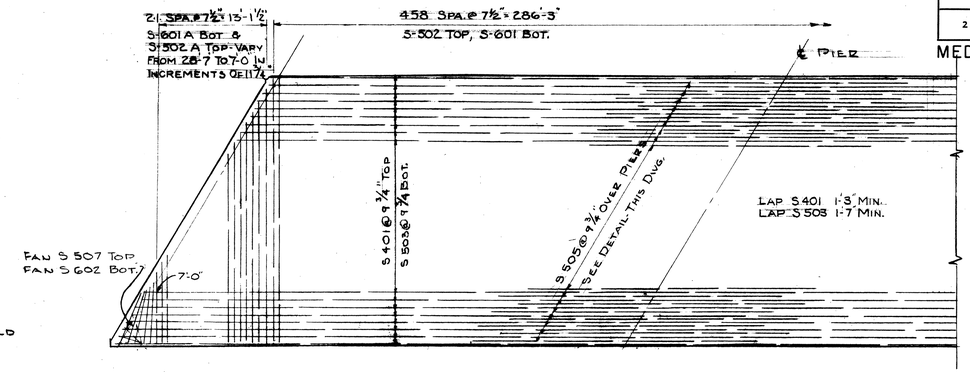
148
189

MED-I-10.09

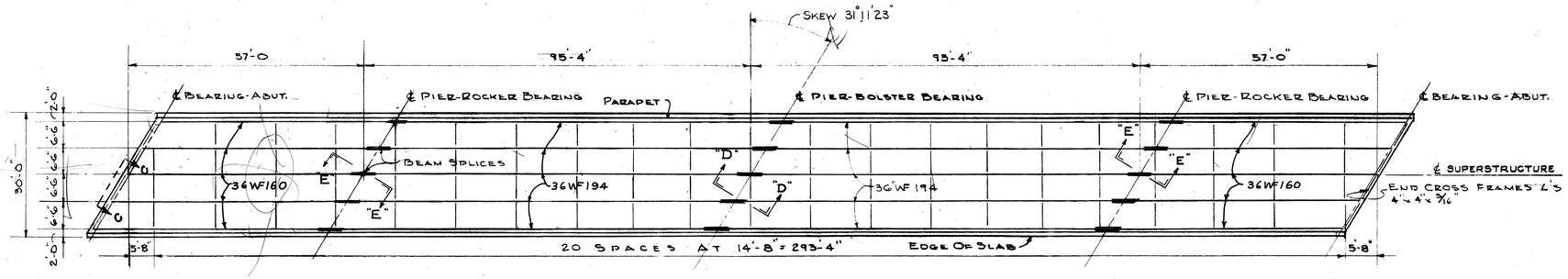


TRANSVERSE SECTION

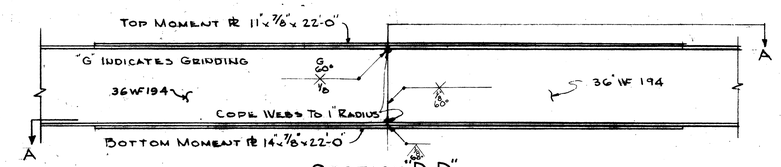
(SYMMETRICAL ABOUT ¢)



PARTIAL SLAB REINFORCING PLAN

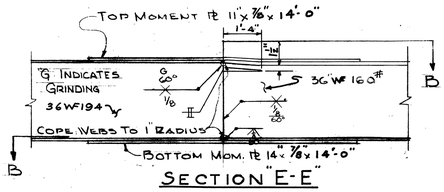


FRAMING PLAN

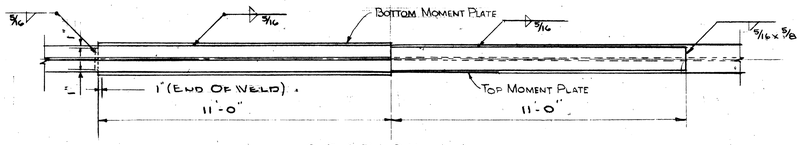


SECTION "D-D"

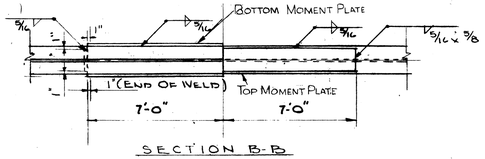
¢ PIER



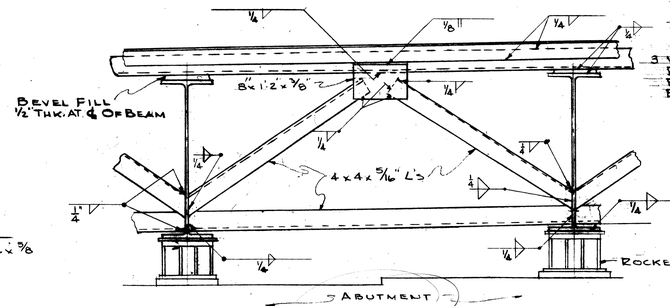
SECTION "E-E"



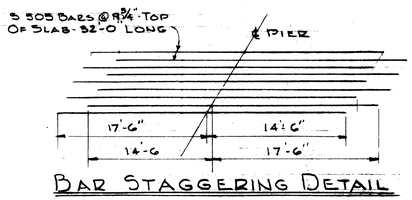
SECTION A-A



SECTION B-B



SECTION C-C



BAR STAGGERING DETAIL

NOTES

1. Slab Thickness Shown Includes ¾" Monolithic Wearing Surface.
2. Welding Procedure:
   Lift End Of Beam 4 At E. or W. Piers Make Welded Splice At Center Pier Then Lower Ends Of Beam Into Place At E. or W. Piers. Next Lift Ends Of Beams 1 & 2 At Abutments, Make Welded Splice At E. & W. Piers And Lower Ends Of Beams Into Place.
   Butt-Weld Beam Flanges And Web At Pier Indicated Using The Following Sequence: Make One Pass On Each Flange, Then One On The Web; Repeat Until Welds Are Completed, Weld Top & Bottom Moment Plates.
3. Welding Of Structural Steel Shall Be Class "A" Except As Otherwise Shown. Any Welds Shown As Field Welds May, At The Option Of The Contractor Be Made In The Shop.

DEFLECTION & CAMBER TABLE

LOCATION	OUTSIDE BEAMS		INSIDE BEAMS	
	END SPANS	MIDDLE SPANS	END SPANS	MIDDLE SPANS
DEFLECTION DUE TO WEIGHT OF STEEL	0.05	0.30	0.05	0.30
DEFLECTION DUE TO REMAINS DEAD LOAD	0.15	1.75	0.10	1.00
CONVEXITY REQUIRED FOR VERTICAL CURVE	0.60	1.60'	0.60	1.60
SUM OF DEFLECTION AND CONVEXITY	0.80	3.65	0.75	2.90
REQUIRED CAMBER	1"	3 ¾"	1"	3"

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

SUPERSTRUCTURE DETAILS

BRIDGE Nº MED. -I- 1220

UNDER ABBOTT ROAD C. H. Nº 121

MEDINA COUNTY

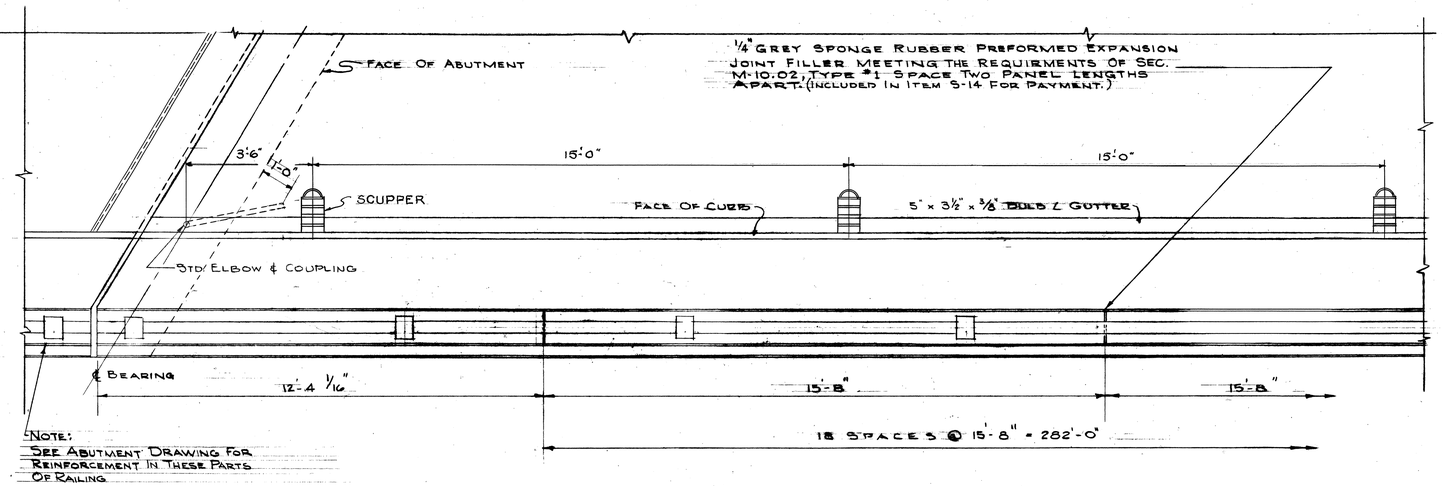
STA. 732 + 51.80

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
AHJ	Brown		DHC			3.19.58

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

149
189

MED-I-10.09

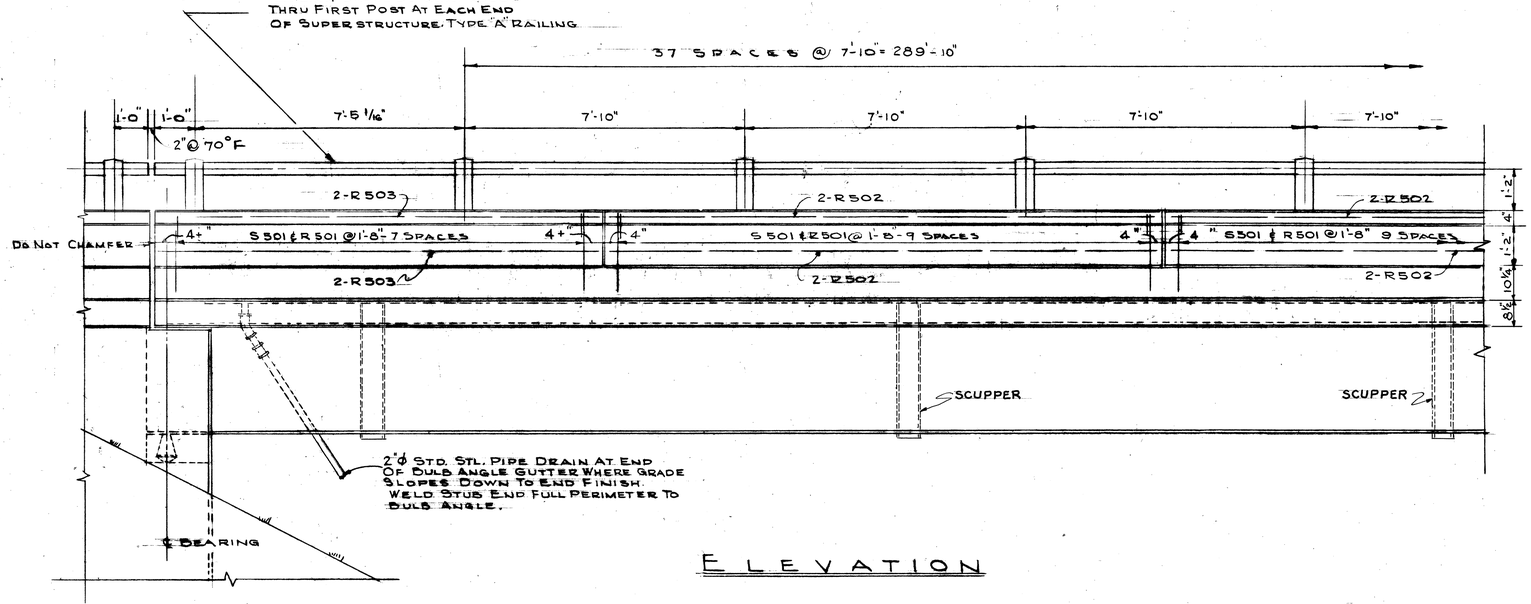


PART. DECK PLAN

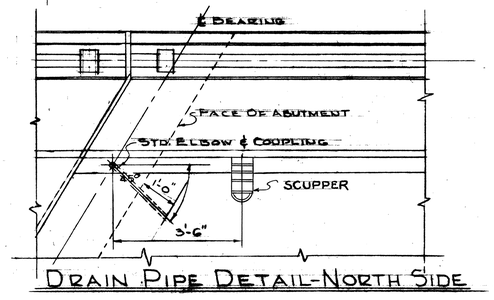
(OPPOSITE HAND SIMILAR)

SEE GENERAL PLAN FOR GENERAL SCUPPER LAYOUT

TYPE "A" RAILING
4" O.D. x 3/16" WALL ALUMINUM TUBE RAILING SHALL BE CONTINUOUS THRU FIRST POST AT EACH END OF SUPERSTRUCTURE. TYPE 'A' RAILING



ELEVATION



DRAIN PIPE DETAIL-NORTH SIDE

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

RAILING & DRAINAGE DETAILS

BRIDGE Nº MED.-I-1220
UNDER ABBOTT ROAD C.H. Nº 121
MEDINA COUNTY
STA. 732 + 51.80

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
AHJ	BROWN		DHC			

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

150
189

MED-I-10.09

REINFORCING STEEL SCHEDULE

MARK NO.	NUMBER REQUIRED	LENGTH	WEIGHT IN LBS.	SHAPE	TOTAL WEIGHT IN LBS.
ABUTMENTS					
A-501	1	12'-3"	18	ST.	
A-502	1	13'-0"	14	ST.	
A-503	4	11'-1"	46	BT.	
A-504	24 = 7'-0" ~~8'-0"~~		~~200~~	ST.	
A-505	1	15'-7"	16	BT.	
A-506	1	14'-4"	15	BT.	
A-507	1 ~~2~~	12'-2"	13 ~~25~~	ST.	
A-508	3	20'-9"	65	ST.	
A-509	6	16'-2"	101	BT.	
A-510	46	4'-8"	224	BT.	
A-511	12	1'-8"	17	BT.	
A-512	3	17'-2"	54	ST.	
A-513	2	16'-0"	33	ST.	
A-514	3 ~~8~~	12'-10"	40 ~~84~~	ST.	
A-515	2	18'-8	39	BT.	
A-516	110	6'-5"	737	BT.	
A-517	78	6'-2"	502	BT.	
A-518	30-6'-6" ~~7'-8"~~		~~235~~	ST.	
A-519	48-6'-0" ~~7'-8"~~		~~388~~	ST.	
A-520	130	3'-11"	532	BT.	
A-521	4	4'-3"	18	BT.	
A-522	4	4'-6"	19	BT.	
A-523	8	4'-9"	40	BT.	
A-524	40	3'-8	153	BT.	
A-525	6	3'-6"	22	BT.	
A-526	4	3'-3"	14	BT.	
A-527	6	3'-0"	19	BT.	
A-528	4	2'-10"	12	BT.	
A-529	4	2'-7"	11	BT.	
A-530	4	2'-3"	9	BT.	
A-531	4	1'-11"	8	BT.	
A-532	36	4'-0"	150	ST.	
A-533	18	3'-6"	66	ST.	
A-534	2 ~~4~~	12'-0"	26 ~~73~~	ST.	
A-535	1	11'-4"	12	ST.	
A-536	4	10'-11"	46	BT.	
A-537	4	6'-6"	27	ST.	
A-538	1	13'-4"	16	BT.	
A-539	1	13'-1"	14	BT.	
A-540	1 ~~2~~	11'-10"	13 ~~25~~	ST.	
A-541	6	19'-0"	119	ST.	
A-542	3	15'-0"	47	BT.	
A-543	2	16'-2	30	ST.	
A-544	8 ~~16~~	10'-0"	84 ~~168~~	ST.	
A-545	2	15'-6"	32	BT.	
A-546	24	6'-8"	167	BT.	
A-547	1	13'-8"	14	ST.	
A-548	4	13'-3"	55	BT.	
A-549	1	14'-6"	15	ST.	
A-550	3	22'-7"	71	ST.	
A-551	1 ~~2~~	15'-2"	16 ~~33~~	ST.	
A-552	1	18'-4"	19	BT.	
A-553	1	16'-7"	18	BT.	
A-554	5	17'-9"	93	BT.	
A-555	3	19'-9"	62	ST.	
A-556	4	5'-0"	21	BT.	
A-557	4	5'-3"	22	BT.	
A-558	2	19'-1"	40	BT.	
A-559	2 ~~4~~	14'-10"	31 ~~47~~	ST.	
A-560	4	13'-5"	56	BT	
A-561	1	14'-4"	15	ST.	
A-562	3	22'-10"	71	ST	
A-563	3	~~22'-4~~ 20'-4"	64 ~~70~~	BT.	

MARK NO.	NUMBER REQUIRED	LENGTH	WEIGHT IN LBS.	SHAPE	TOTAL WEIGHT IN LBS.
ABUTMENTS					
A-564	1	18'-9"	20	BT.	
A-565	1	18'-0"	19	BT.	
A-566	2	19'-8"	41	ST.	
A-567	2	16'-5"	34	ST.	
A-568	2	22'-3"	47	BT.	
A-569	4	37'-0"	155	ST.	
A-570	10	34'-8"	362	ST.	
A-571	12	33'-8"	422	ST.	
A-572	18	32'-6"	610	ST.	
A-573	64	1'-9"	117	BT.	
A-574	46	6'-3½"	302	BT.	
A-575	2	13'-7"	29	ST.	
TOTAL OF #5 BARS					7181 ~~7314~~
A-601	64	16'-2"	1,555	BT.	
TOTAL OF #6 BARS					1,555
GRAND TOTAL FOR ABUTMENTS					8736 ~~8869~~
SLAB					
S-401	408	39'-5"	10,743	ST.	
TOTAL OF #4 BARS					10,743
S-501	392	4'-7"	1,874	BT.	
S-502	459	29'-8"	14,204	ST.	
SERIES OF S-502A	44	VARY FROM 28'-7" TO 7'-0" INCREM'S 1¾"	820	ST	
			12 1/4		
S-503	256	39'-9"	10,614	ST.	
S-504	458	2'-8"	1,273	ST.	
S-505	90	32'-0"	3,004	ST.	
S-506	916	2'-0"	1,911	BT.	
S-507	10	6'-0"	63	ST	
TOTAL OF #5 BARS					33,763
S-601	459	29'-8"	20,455	ST.	
SERIES OF S-601A	44	VARY FROM 28'-7" TO 7'-0" INCREM'S 1¾"	1,176	ST.	
			12 3/4		
S-602	10	6'-0"	90	ST	
TOTAL OF #6 BARS					21,721
GRAND TOTAL FOR SLAB					66,227

MARK NO.	NUMBER REQUIRED	LENGTH	WEIGHT IN LBS.	SHAPE	TOTAL WEIGHT IN LBS.
PIERS					
P-501	57	5'-6"	327	BT.	
P-502	57	8'-6"	505	BT.	
P-503	138	7'-2"	1,020	ST.	
TOTAL OF #5 BARS					1,852
P-601	6	30'-8"	276	ST.	
TOTAL OF #6 BARS					276
P-901	25	30'-8"	1,607	ST.	
P-902	72	34'-0"	8,323	ST.	
P-903	108	15'-9"	5,784	ST.	
P-904	42	8'-7"	1,226	BT.	
P-905	108	6'-4"	2,322	BT.	
P-906	28	27'-5"	2,611	ST.	
P-907	12	8'-10"	360	BT.	
TOTAL OF #9 BARS					23,233
GRAND TOTAL FOR PIERS					25,361
★ RAILING					
R-501	#38	1'-6"		BT	
R-502	144	15'-4"		ST.	
R-503	16	12'-0"		ST.	
R-504	4	15'-8"		ST	
R-505	4	13'-3"		ST.	
R-506	4	14'-8"		ST	
R-507	4	19'-4"		ST.	

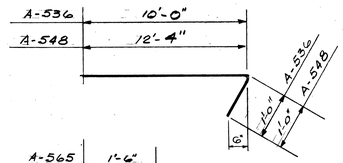
MARK NO.	NUMBER REQUIRED	LENGTH	WEIGHT IN LBS.	SHAPE	TOTAL WEIGHT IN LBS.
REPLACEMENT STEEL					
RE-401	1	5'-3"	3	BT	
RE-402	1	5'-3"	4	ST	
RE-501	3	5'-6"	16	ST.	
RE-601	2	6'-0"	17	ST.	
RE-901	2	6'-10"	48	ST.	
GRAND TOTAL FOR REPLACEMENT STEEL					
SPIRAL REINFORCEMEN FOR PIERS (SEE NOTE)					

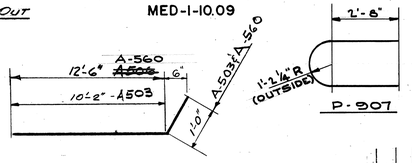
MARK NO.	NUMBER REQUIRED	CORE DIA OF SPIRAL	LENGTH OF SPIRAL	PITCH	NO. OF TURNS	WEIGHT IN LBS.
SP-401	9	2'-8"	12'-7"	4"	41	2034
SPACERS	36					306
GRAND TOTAL FOR SPIRALS						2,340
TOTAL STEEL FOR BRIDGE WITHOUT RAILING						~~102,739~~ 102,609

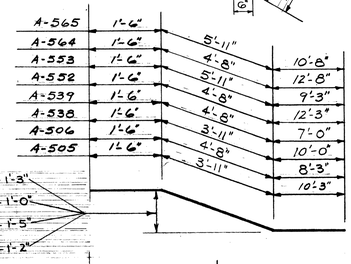
★ RAILING REINFORCEMENT WILL BE PAID UNDER ITEM S-14

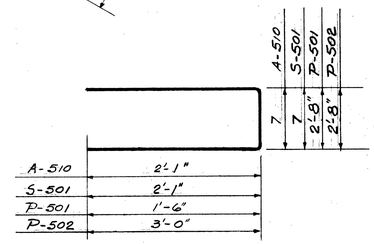
BENDING DIAGRAM

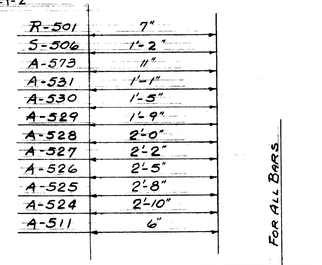
ALL DIMENSIONS ARE FROM OUT TO OUT

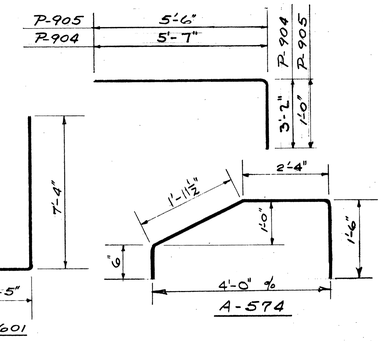


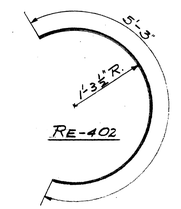


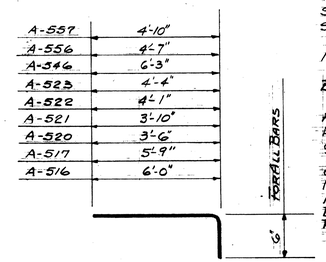


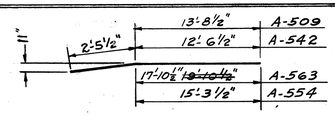


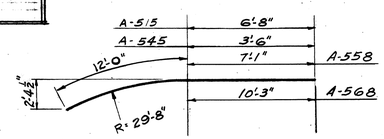












SPIRAL REINFORCING NOTES

FOUR STEEL CHANNEL TEES OR ANGLE SPACERS, WEIGHING APPROXIMATELY 0.68 LBS. PER LIN. FT. OF SPACER SHALL BE PROVIDED FOR EACH SPIRAL UNIT. THEY SHALL BE EQUALLY SPACED ALONG THE PERIPHERY OF THE COIL. THE NUMBER OF POUNDS OF THESE SPACERS BASED ON 0.68 LBS. PER LIN. FT. WILL BE PAID FOR AS REINFORCING STEEL AND IS INCLUDED IN THE TABULATED QUANTITY OF SPIRAL BARS.

THE LENGTH SHOWN IN SCHEDULE FOR SPIRAL BARS IS THE DISTANCE FROM THE TOP OF THE FOOTING TO BOTTOM OF PIER CAP.

THE NO OF TURNS SHOWN IN SCHEDULE FOR SPIRAL BARS IS THE LENGTH DIVIDED BY THE PITCH PLUS THREE TURNS (TOTAL NO OF CLOSED COILS) EXPRESSED AS THE NEAREST WHOLE NO.

SPIRAL REINFORCING BARS SHALL NOT HAVE DEFORMATIONS BUT SHALL IN OTHER RESPECTS CONFORM TO ITEM S-4 (REINFORCING STEEL)

½ CLOSED COILS SHALL BE PROVIDED AT THE END OF EACH SPIRAL UNIT.

BAR SIZE IS INDICATED IN THE BAR MARK, THE FIRST DIGIT INDICATES THE BAR SIZE NUMBER.

FOR EXAMPLE P-901 IS A NO 9 SIZE BAR.

REPLACEMENT BARS: IF REINFORCING BARS ARE FABRICATED FROM STOCK WHICH HAS PREVIOUSLY BEEN TESTED AND APPROVED BY THE OHIO HIGHWAY TESTING LABORATORY, TEST SAMPLES AS PROVIDED IN SEC. S-4.02 NEED NOT BE FURNISHED AND REPLACEMENT BARS WILL NOT BE REQUIRED.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

REINFORCING SCHEDULE

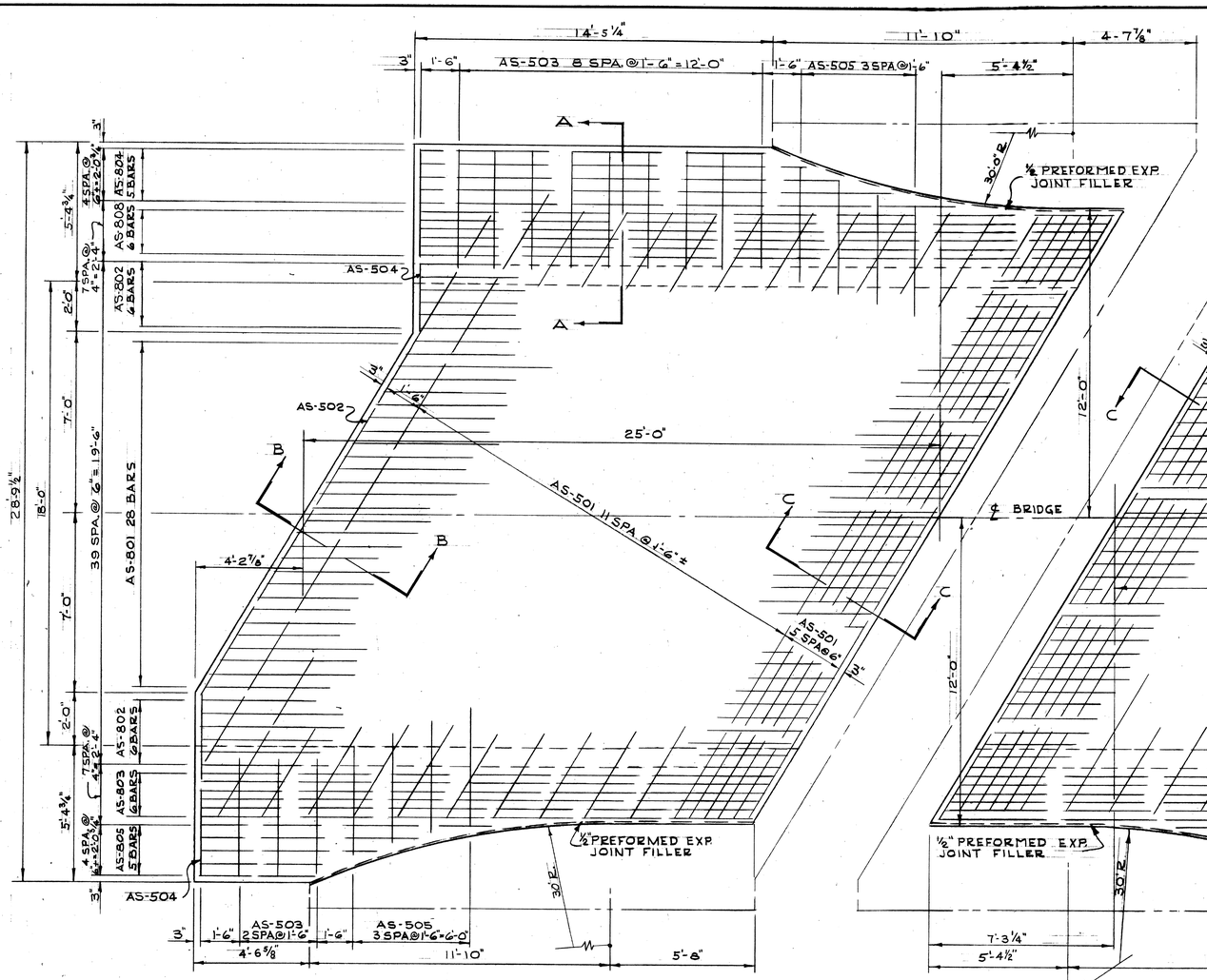
BRIDGE Nº MED. -I- 1220
UNDER ABBOTT ROAD C.H. Nº 121
MEDINA COUNTY
STA. 732 + 51.80.

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
AHJ	J.K.		DHC			3.19.58

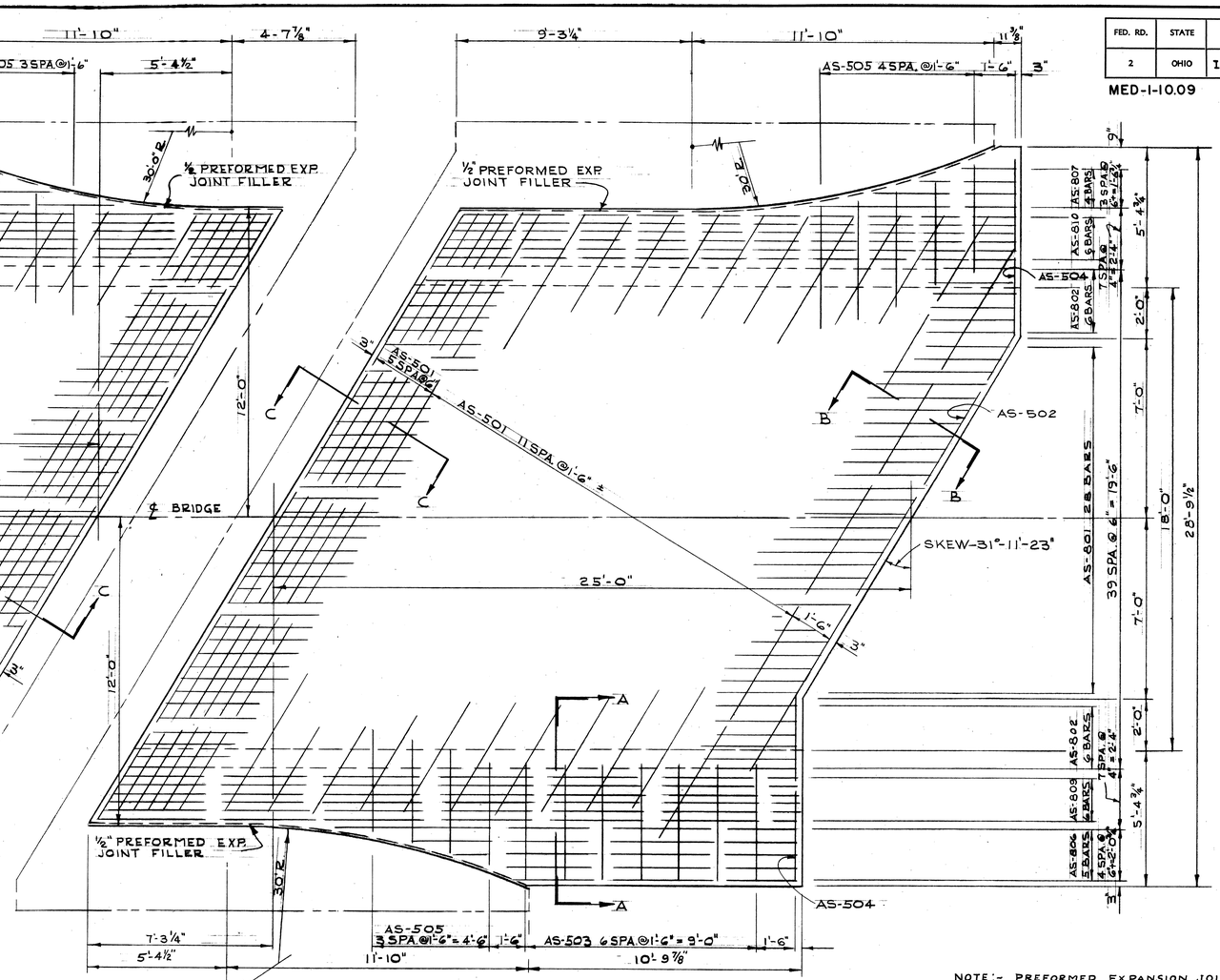
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

MED-I-10.09

151
189

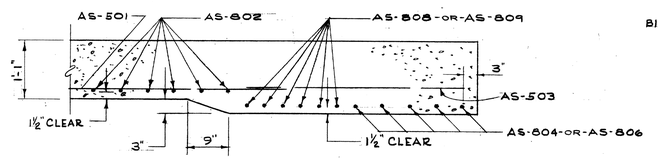


PLAN - WEST APPROACH SLAB

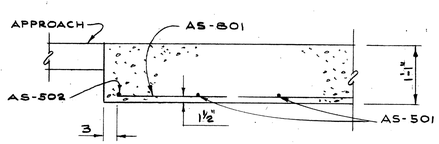


PLAN - EAST APPROACH SLAB

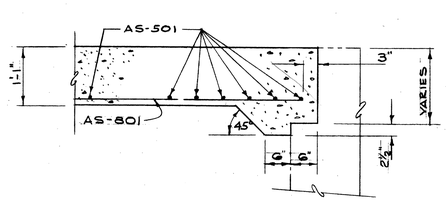
NOTE:- PREFORMED EXPANSION JOINT FILLER SHALL BE INCLUDED IN THE PRICE BID FOR ITEM I-7, "REINFORCED CONCRETE APPROACH SLAB"



SECTION A-A



SECTION B-B



SECTION C-C

QUANTITY FOR TWO APPROACH SLABS

REINFORCING BAR SCHEDULE

MARK	No.	LENGTH	WEIGHT	SHAPE
AS 501	34	27'-6"	975#	ST.
AS 502	2	22-0	46	ST.
AS 503	19	4-6	89	ST.
AS 504	4	7-2	30	ST.
AS 505	17	4-0	71	ST.
AS 801	56	24-6	3660	ST.
AS 802	24	VARIES 22-9 TO 26-2½ INCREMS. 3½"	1567	ST.
AS 803	6	VARIES 21-6 TO 22-6 INCREMS. 2½"	358	ST.
AS 804	5	VARIES 13-6 TO 21-0 INCREMS. 1'-10"	232	ST.
AS 805	5	VARIES 4-6 TO 11-6 INCREMS. 1'-9"	107	ST.
AS 806	5	VARIES 10-6 TO 18-0 INCREMS. 1'-10½"	190	ST.
AS 807	4	VARIES 2-0 TO 7-9 INCREMS. 1'-11"	52	ST.
AS 808	6	VARIES 22-3 TO 27-3 INCREMS. 2½"	428	ST.
AS 809	6	VARIES 26-8 TO 27-2 INCREMS. 2"	430	ST.
AS 810	6	VARIES 21-9 TO 24-9 INCREMS. 2½"	356	ST.
		TOTAL	8585#	

SM

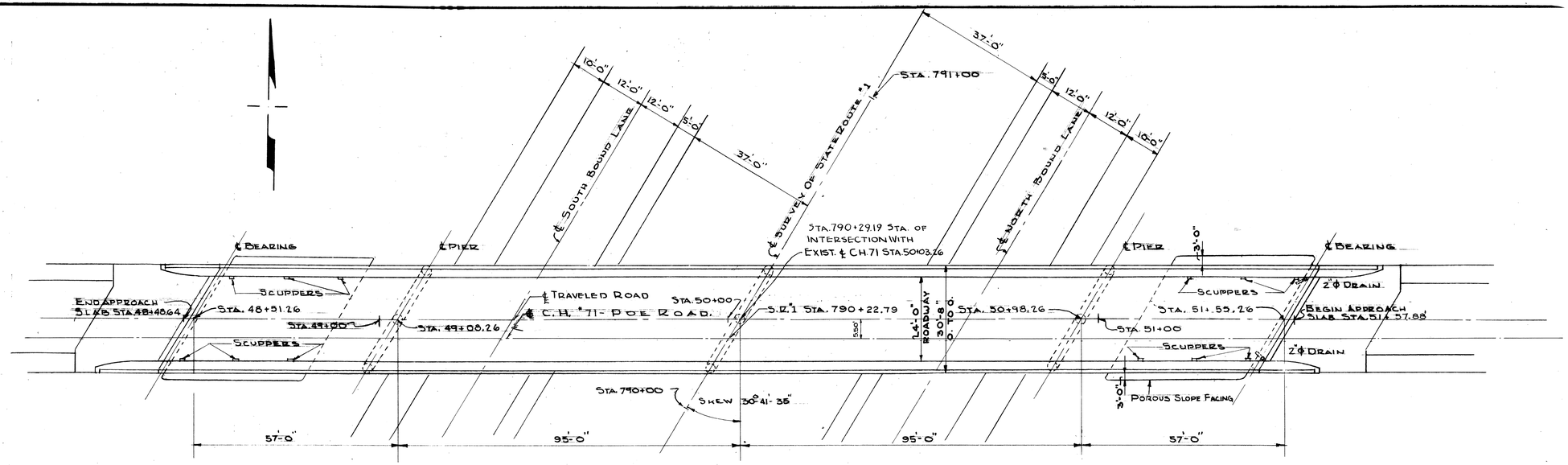
APPROACH SLAB DETAILS BRIDGE NO. MED-I-1220

FED. RD. 2 | STATE OHIO | PROJECT I-1105(25)
152/189
MED-1-10.09
WHEAT
CORN
PASTURE
WHEAT
South Bound Lanes
North Bound Lanes
SURVEY OF STATE ROUTE #1
POE ROAD
NEW STRUCTURE
EXISTING
EDGE OF FIELD
30°-41'-35" Skew
End Approach Slab Sta. 48+48.64
Begin Approach Slab Sta. 51+57.88
1½ ST. FRAME HOUSE
2 ST. FRAME HOUSE
2-CAR GARAGE
SHOP
WELL
MAIL BOX
4-10' DRIVE
10' Wide drive
Sewer
SEWER
788+00
789+00
790+00
791+00
792+00
793+00
7-2" ORANGE THORN
14" APPLE
10" ELM
2-4" LILAC
4" W. CHERRY
12" APPLE
14" W. CHERRY
4" PEACH
4" APPLE
8" EVERGREEN
6" SPRUCE
24" ELM
24" APPLE
22" APPLE
16" APPLE
14" APPLE
TWIN 16" APPLE
8" CHERRY
3" CHERRY
6" APPLE
3" PEACH
4" EVERGREEN
10" CHERRY
18" MAPLE
18" APPLE
20" APPLE
22" APPLE
8" V.C.P.
Road Section C.H. #71
4' Rounding
16'
3'
5'
7' With guard rail
5' Without guard rail
3/16"/Ft.
1"/Ft.
3:1
2:1 Under 10'
3:1 Over 10'
1' Min.
Sta. 48+48.64
EL. 1219.25
Sta. 51+57.88
EL. 1215.94
2:1 Normal
-1.07% Grade
Bridge Limits 309.24'
Min. clearance 15.00'
ESTIMATED AVERAGE PAY LENGTH PIER PILES 30'
ESTIMATED AVERAGE PAY LENGTH ABUTMENT PILES 45'
48+00
49+00
50+00
51+00
52+00
1219.77
1219.24
1218.70
1218.17
1217.63
1217.10
1216.56
1216.03
1215.49
1207.67
1201.70
1200.72
1199.75
1198.77
1197.80
1196.82
1195.85
1194.87
1230
1210
1190
-1.95% Grade
15.10
PROPOSED STRUCTURE
TYPE: CONTINUOUS STEEL BEAM WITH REINFORCED CONCRETE DECK & SUBSTRUCTURE.
SPAN: 57'-95'-95'-57' C/C BRGS.
ROADWAY: 24' F/F SAFETY CURBS
LOAD FREQUENCY: CF 130
SKEW: 30°-41'-35" LF
WEARING SURFACE: 3/4" MONOLITHIC
APPROACH SLAB: 25' LONG
ALIGNMENT: STRAIGHT
SUPERELEVATION: NONE
FOUNDATION SOUNDINGS: FOUNDATION DESIGN AND FOUNDATION QUANTITIES ARE BASED ON A STUDY OF SOIL SAMPLING SOUNDINGS MADE AT THE SITE. THIS SOUNDING INFORMATION MAY BE INSPECTED IN THE INTERSTATE PROJECTS OFFICE IN COLUMBUS OR IN THE DIVISION OFFICE, BUT THE STATE DOES NOT GUARANTEE THE ACCURACY THEREOF.
Traffic Count -500 ADT 1975
STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES
BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO
SITE PLAN
BRIDGE Nº MED.-1-1330
UNDER POE ROAD C.H. Nº 71
MEDINA COUNTY
STA. 790+22.79
SCALE: 1" = 20'-0"
DESIGNED AHJ
DRAWN
TRACED
CHECKED DHC
REVIEWED
DATE
REVISED

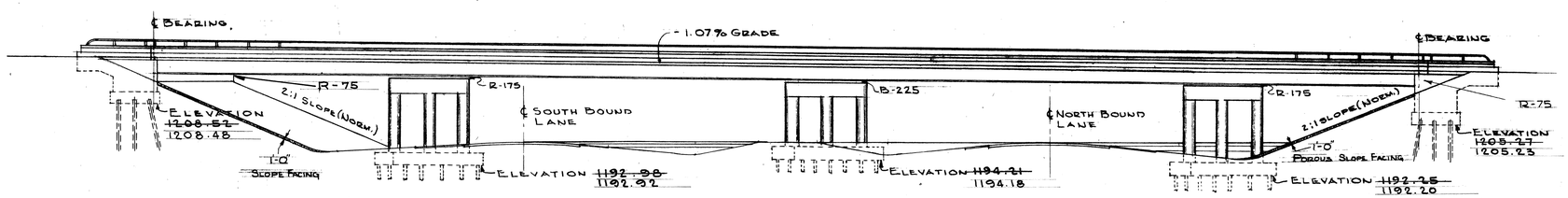
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

153
189

MED-I-10.09



PLAN



ELEVATION

General Notes

WELDED STEEL: THE STEEL FOR THE 36"WF BEAMS SHALL CONFORM TO A.S.T.M. DESIGNATION A-373. ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO EITHER A.S.T.M. A-7 (AS PER SEC. M.7.4(a) OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS) OR TO A-373

DESIGN SPECIFICATION: THIS STRUCTURE CONFORMS TO THE REQUIREMENTS OF "DESIGN SPECIFICATIONS FOR HIGHWAY STRUCTURES" OF THE STATE OF OHIO, DEPARTMENT OF HIGHWAYS DATED 9-1-57

SLOPE FACING: ONE FOOT DEEP EXTENDING FROM FACE OF ABUTMENT TO TOE OF SLOPE SHALL BE PROVIDED AT EACH ABUTMENT FOR FULL WIDTH OF BRIDGE PLUS THREE FEET ON EACH SIDE OF BRIDGE AND PARALLEL WITH ℄ OF SUPERSTRUCTURE.

EXCAVATION QUANTITIES: INCLUDES THE REMOVAL OF FILL MATERIAL BETWEEN THE SURFACE OF THE PROPOSED EMBANKMENT AND THE BOTTOM OF ABUTMENT.

ALL PILES TO BE 12" MIN. TOP DIAMETER CAST IN PLACE CONCRETE PILES DRIVEN TO A MINIMUM BEARING CAPACITY OF 40 TONS.

Estimated Quantities

Item	Total	Unit	Description	Super	Abuts	Piers	Gen.
E-2	Lump	Sum	Cofferdams, Cribs and Sheeting				Lump
E-2	238	Cu. Yds.	Unclassified Excavation		110	128	
S-1	267	Cu. Yds.	Class "C" Concrete Superstructure.	267			
S-1	72	Cu. Yds.	Class "E" Conc. Abuts Above Footings		72		
S-1	69	Cu. Yds.	Class "C" Conc. Piers Above Footings.			69	
S-1	139	Cu. Yds.	Class "E" Conc. Pier & Abut. Footings.		54	85	
	~~100,913~~				~~7,235~~		
S-4	~~101,163~~	Lbs.	Reinforcing Steel	66,008	~~7,493~~	27,667	
S-7	336,000	Lbs.	Structural Steel	336,000			
S-8	336,000	Lbs.	Field Painting of Structural Steel	336,000			
	673			673			
S-14	~~673~~	Lin. Ft.	Railing (Alum. Rail & Supports - Conc.	~~673~~			
			Parapets & End Posts - Reinf. Steel)				
S-16	Lump	Sum	First Test Pile				
S-18	2340	Lin. Ft.	18"ø Cast In Place Reinforced Conc. Piles		1080	1260	
S-29	25	Cu. Yds.	Porous Backfill		25		
S-29	116	Cu. Yds.	Slope Facing S 29.05 Type		116		

NOTE

REFERENCE SHALL BE MADE TO STANDARD DRAWINGS RB-1-55 DATED 3-1-55, AR-1-57 DATED 4-9-57, CSB-2-56 SHTS. 2 & 3 DATED 12-3-56 AND TO SUPPLEMENTAL SPECIFICATIONS S-114 DATED 8-30-55.

SEE SHEET 175 THIS SET FOR ADDITIONAL DETAILS

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

GENERAL PLAN & ELEVATION

BRIDGE Nº MED.-I-1330

UNDER POE ROAD C.H. Nº 71

MEDINA COUNTY

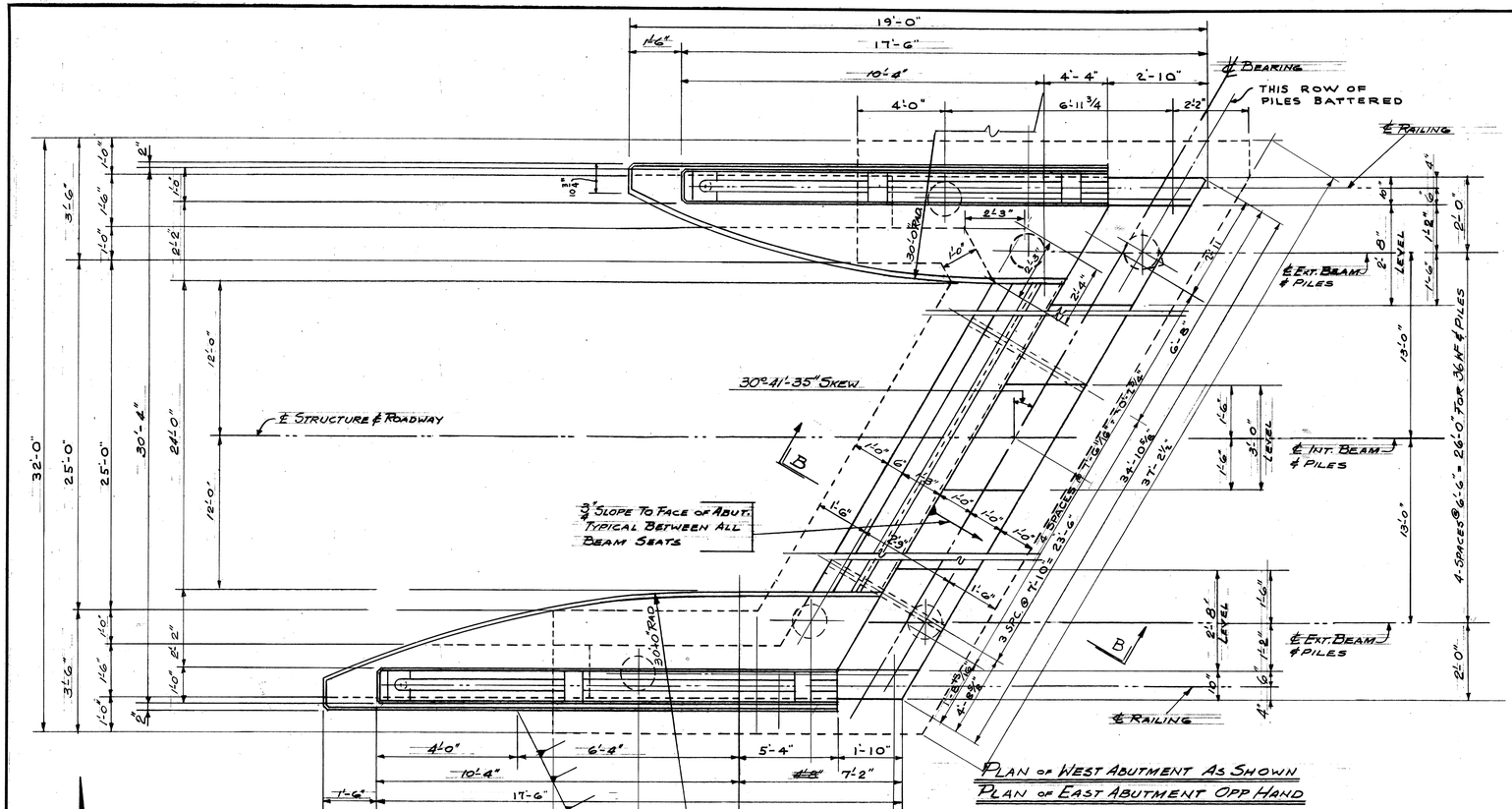
STA. 790+22.79

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
AHJ	~~BEDUN~~		DHC			3-19-58

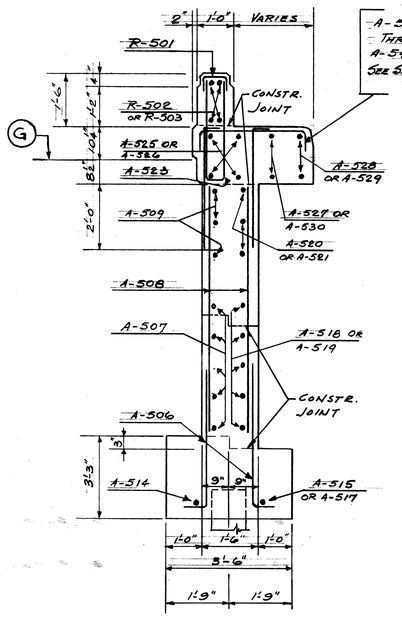
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

154
189

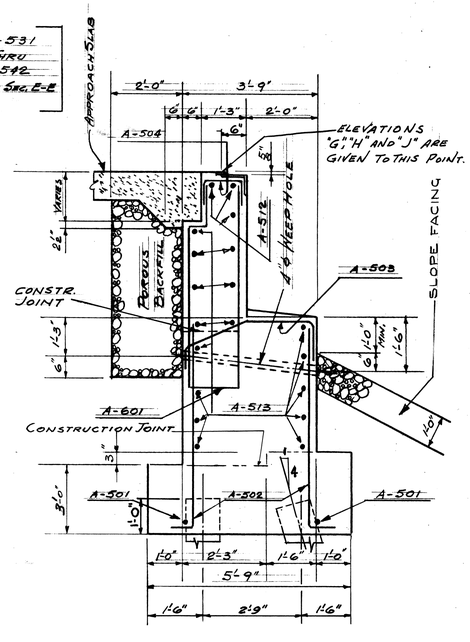
MED-I-10.09



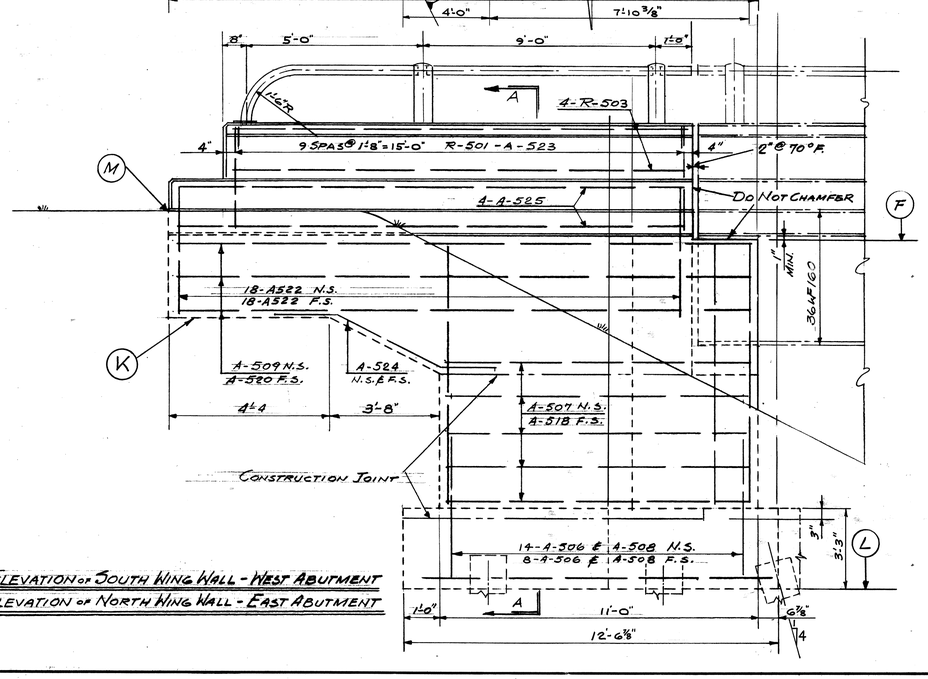
PLAN OF WEST ABUTMENT AS SHOWN
PLAN OF EAST ABUTMENT OPP HAND



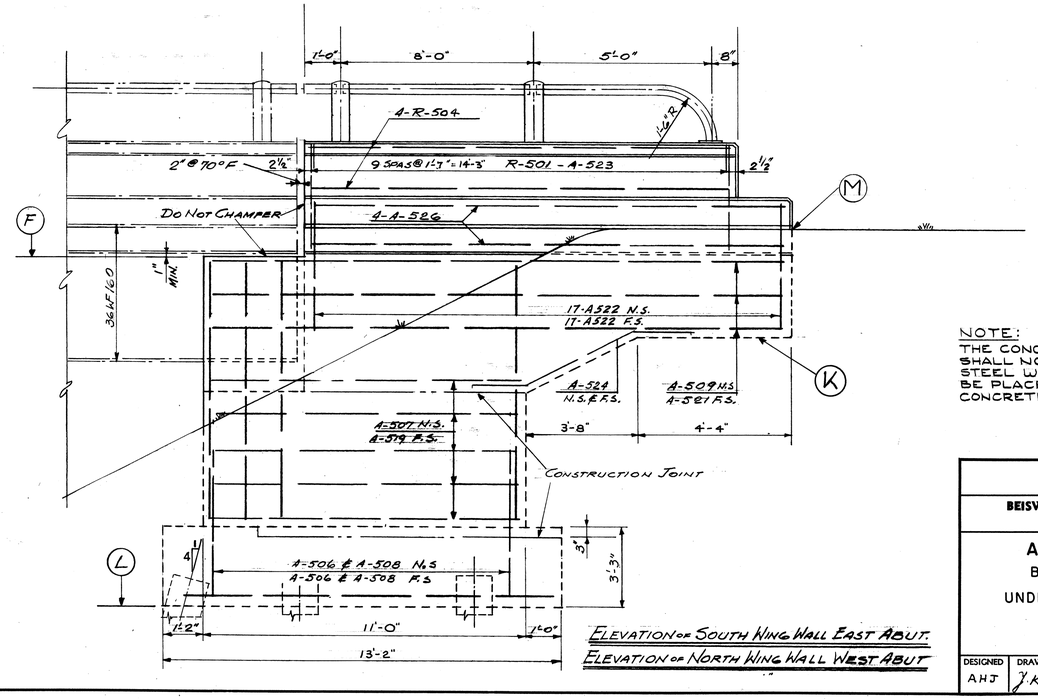
SECTION A-A



SECTION B-B



ELEVATION OF SOUTH WING WALL - WEST ABUTMENT
ELEVATION OF NORTH WING WALL - EAST ABUTMENT



ELEVATION OF SOUTH WING WALL EAST ABUT.
ELEVATION OF NORTH WING WALL WEST ABUT

NOTE:
THE CONCRETE IN ABUTMENT BACKWALL SHALL NOT BE PLACED UNTIL AFTER STEEL WORK IS ERECTED BUT SHALL BE PLACED BEFORE THE DECK SLAB CONCRETE IS PLACED.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

ABUTMENT DETAILS

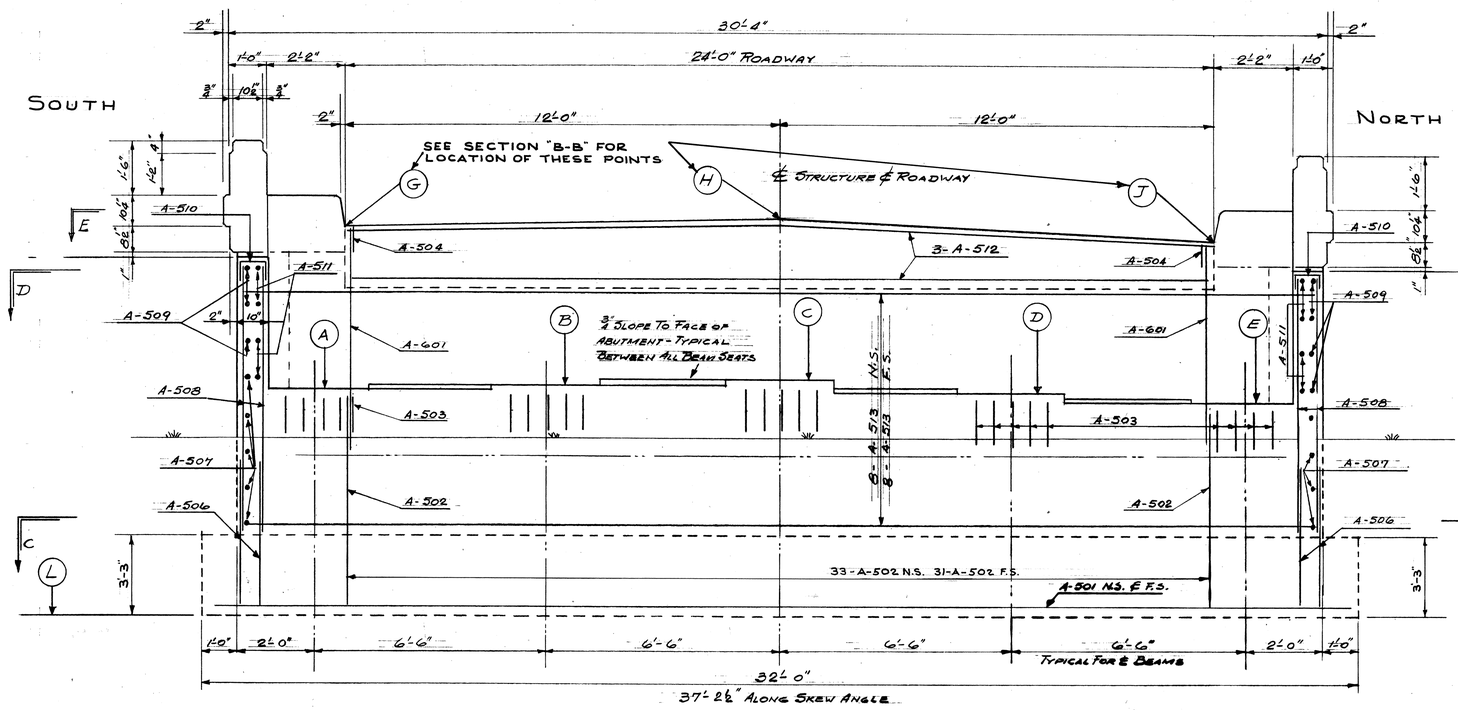
BRIDGE Nº MED. -I- 1330
UNDER POE ROAD C.H. Nº 71
MEDINA COUNTY
STA. 790+ 22.79

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
AHJ	JK		DHC			3.19.58

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

155
189

MED-I-10.09

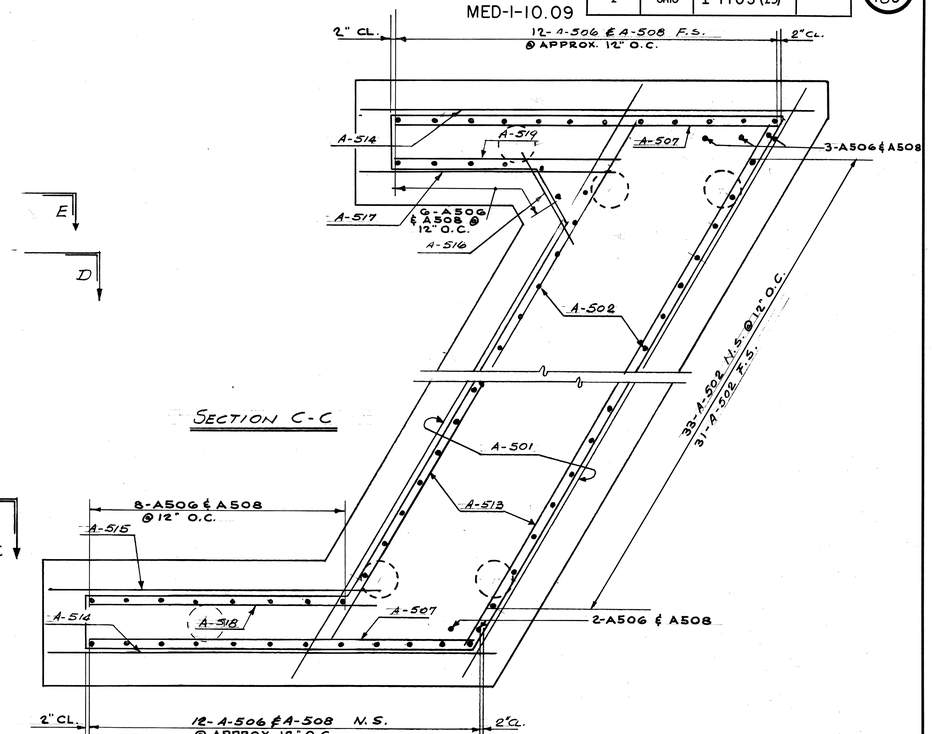


ELEVATION FACE OF WEST ABUTMENT
REFLECTED ELEVATION FACE OF EAST ABUTMENT

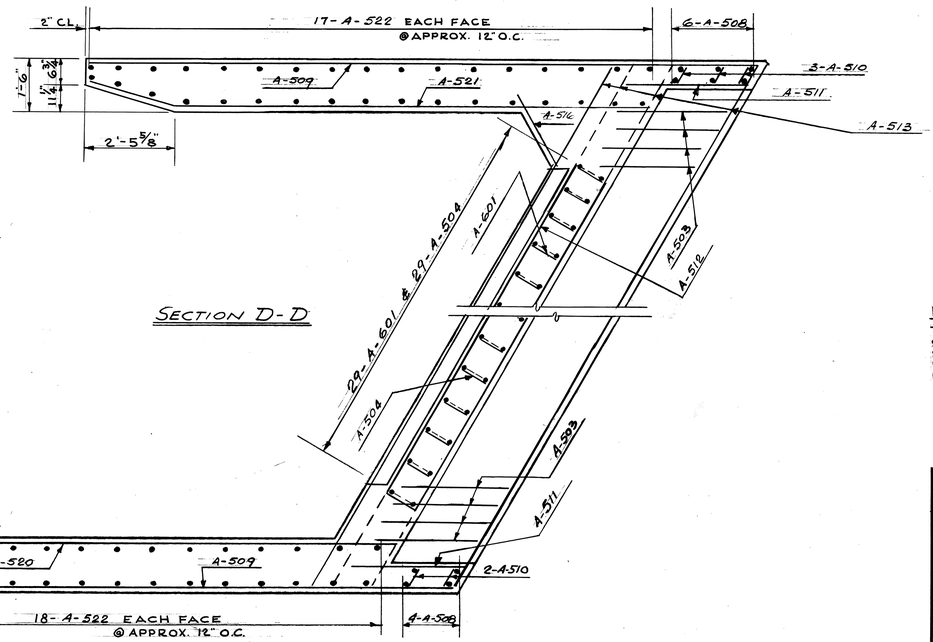
ELEVATION SCHEDULE

	A	B	C	D	E	F	G	H	J	K	L	M	
WEST ABUTMENT	~~1214.68~~	~~1214.74~~	~~1214.80~~	~~1214.86~~	~~1214.92~~	1218.35	~~1219.16~~	~~1219.27~~	~~1219.00~~		~~1208.52~~		
SOUTH WING WALL	1214.64	1214.70	1214.76	1214.82	1214.88	~~1218.35~~	1219.15	1219.24	1218.98	1216.29	1208.48	1219.35	
NORTH WING WALL	1211.39	1211.45	1211.51	1211.57	1211.63	1218.17	1215.84	1215.95	1215.69	1216.10	1205.23	~~1219.18~~	1219.14
EAST ABUTMENT	~~1211.43~~	~~1211.49~~	~~1211.55~~	~~1211.61~~	~~1211.67~~	1215.05	~~1215.88~~	~~1215.99~~	~~1215.72~~	1212.67	~~1205.27~~		
SOUTH WING WALL						~~1215.18~~				~~1212.72~~		~~1215.78~~	1215.67
NORTH WING WALL						~~1214.98~~				~~1212.53~~		~~1215.53~~	
						1214.90				1212.47		1215.47	

SECTION E-E



SECTION C-C



SECTION D-D

EMBANKMENT: THE EMBANKMENT SHALL BE PLACED AND COMPACTED UP TO THE FINISHED SPILL-THRU SLOPE AND TO THE LEVEL OF THE SUBGRADE FOR A DISTANCE OF 100 FT. BACK OF THE ABUTMENTS, AFTER WHICH EXCAVATION SHALL BE MADE FOR THE ABUTMENTS.

NOTE:
THE CONCRETE IN ABUTMENT BACKWALL SHALL NOT BE PLACED UNTIL AFTER STEEL WORK IS ERECTED BUT SHALL BE PLACED BEFORE THE DECK SLAB CONCRETE IS PLACED.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

ABUTMENT DETAILS

BRIDGE Nº MED.-I- 1330

UNDER POE ROAD C.H. Nº 71
MEDINA COUNTY

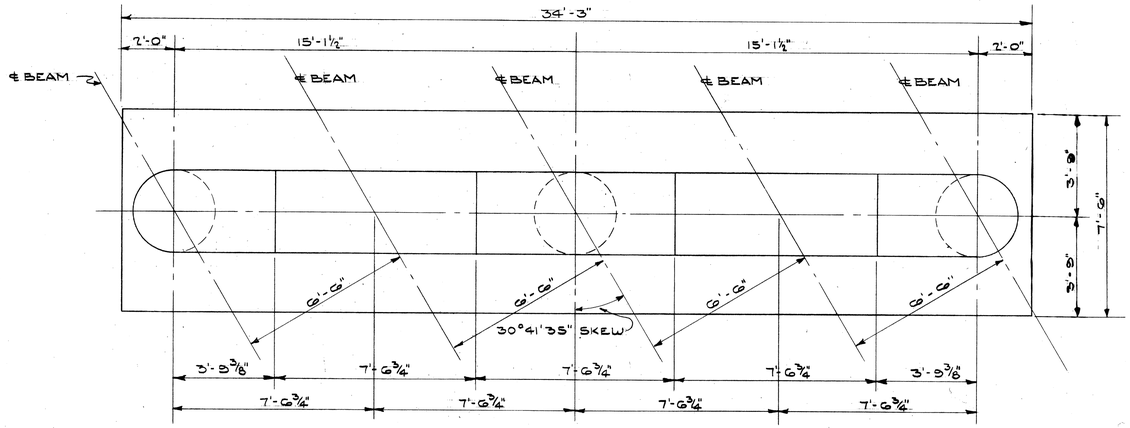
STA. 790+ 22.79

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
AHJ	Y.K.		DHC			3.19.58

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

156
189

MED-I-10.09



PLAN

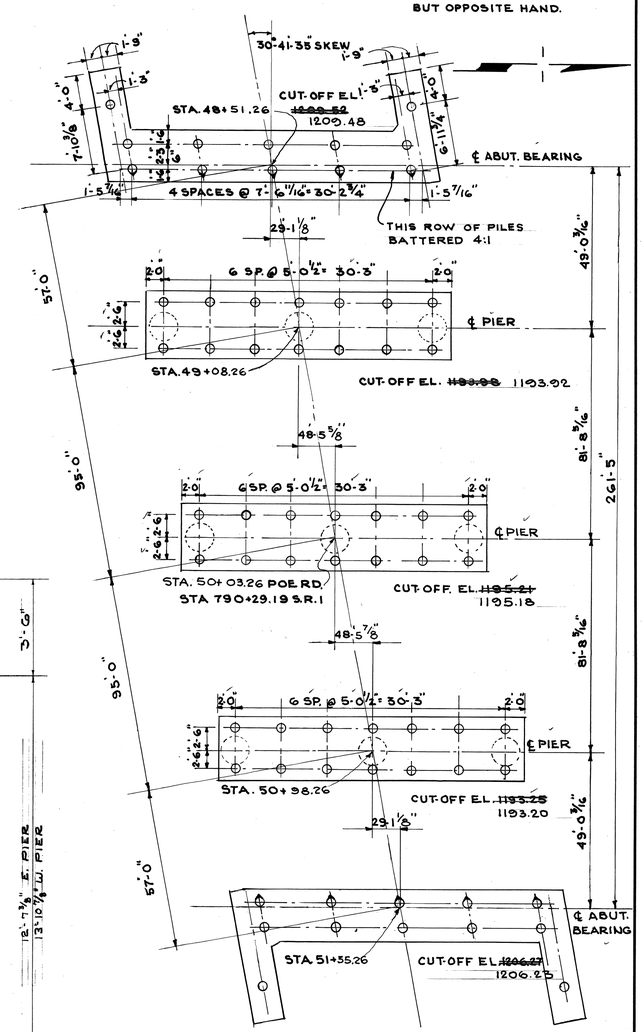
NOTES

ALL REINFORCING STEEL TO HAVE A 2" MIN. COVER EXCEPT WHERE OTHERWISE NOTED.

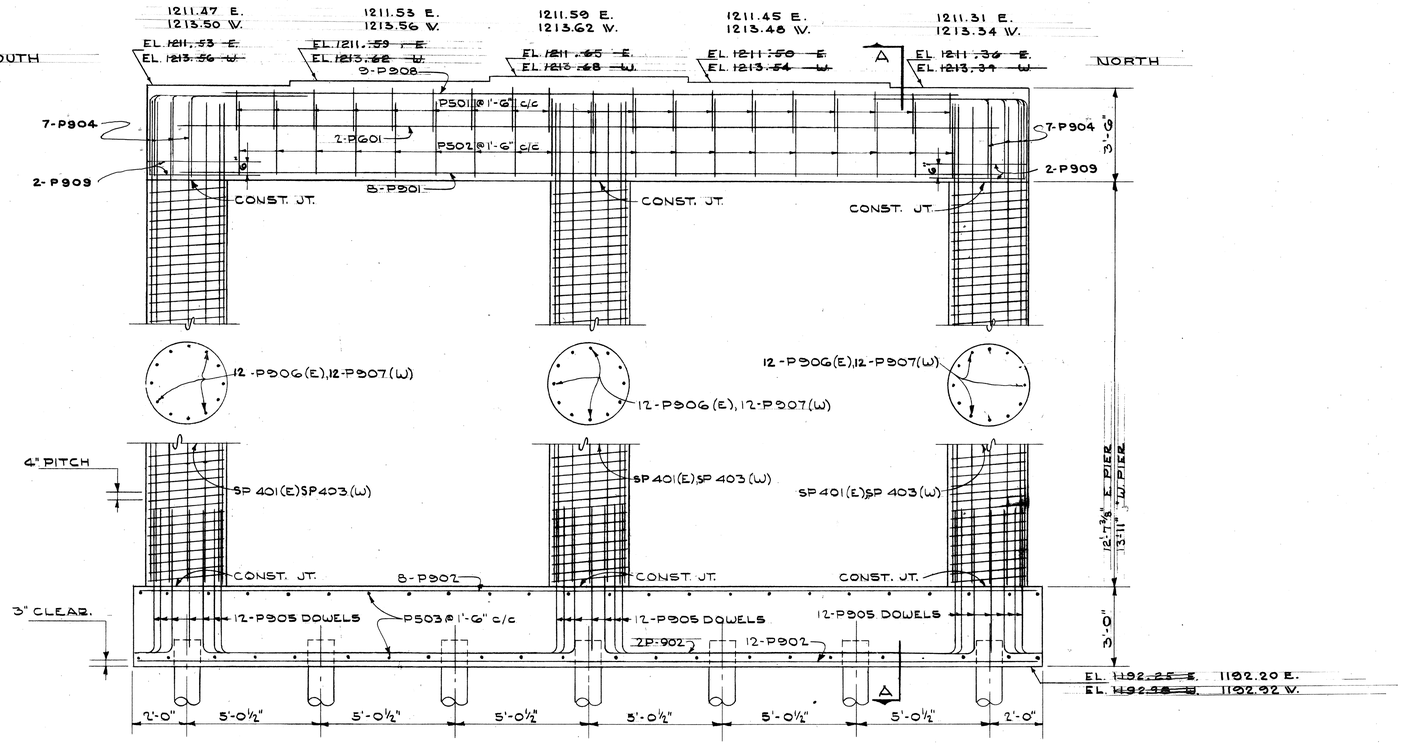
ALL PILES TO BE 12" ϕ CAST-IN PLACE CONCRETE.

(E) DESIGNATES EAST PIER.
(W) DESIGNATES WEST PIER.

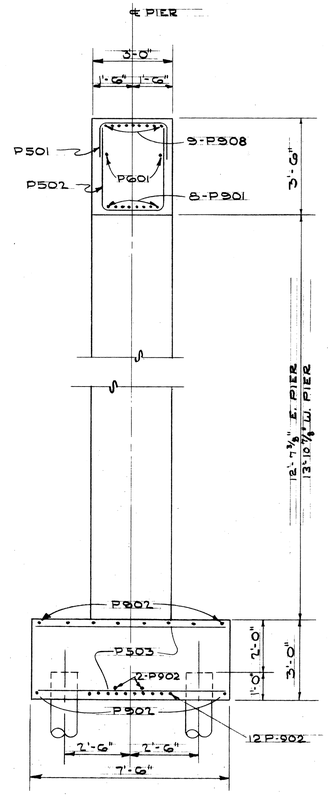
NOTE: EAST ABUT SIMILAR BUT OPPOSITE HAND.



PILE PLAN



ELEVATION



SECTION A-A

EAST OR WEST PIERS

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

PIER DETAILS

BRIDGE Nº MED. -I- 1330

UNDER POE ROAD C.H. Nº 71
MEDINA COUNTY

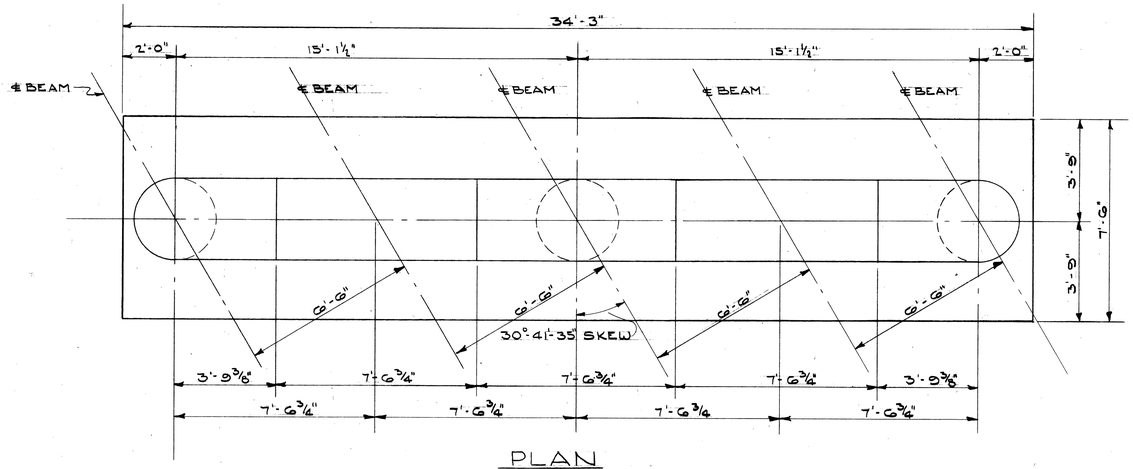
STA. 790+ 22.79

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
AHJ	AC		DHC			3.19.58

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

157/189

MED-1-10.09



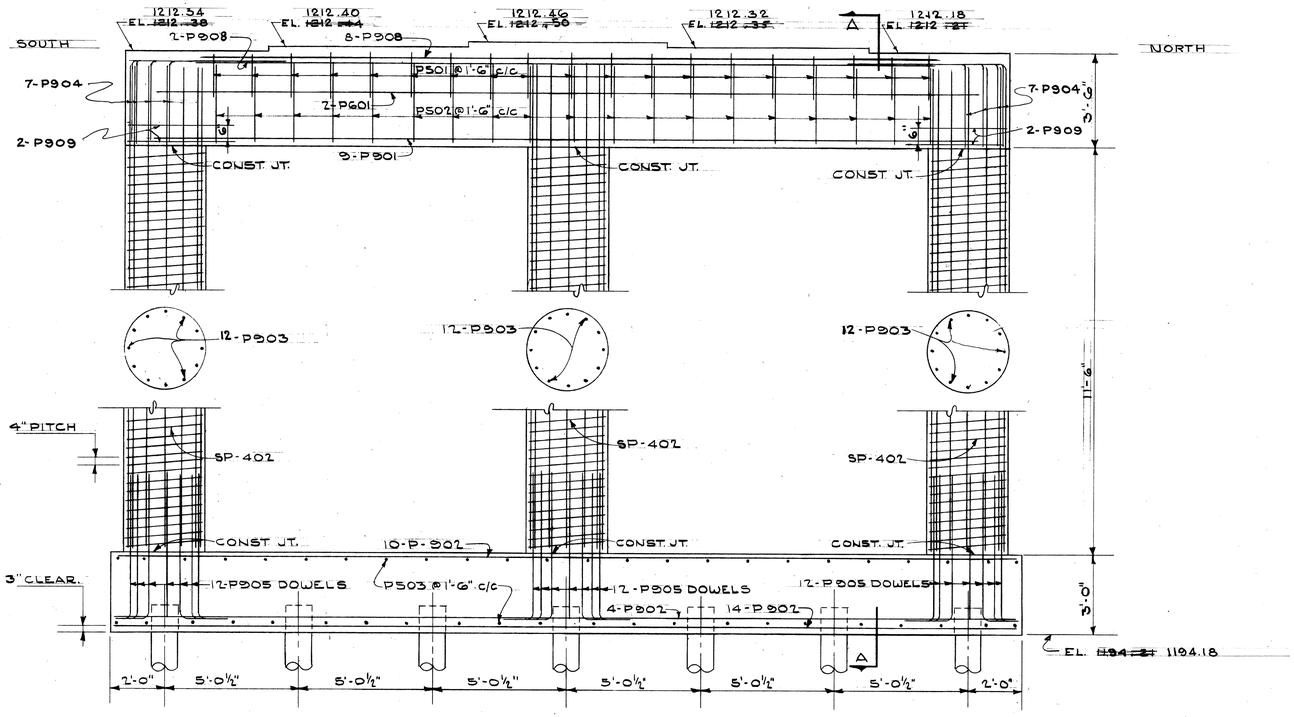
PLAN

NOTES

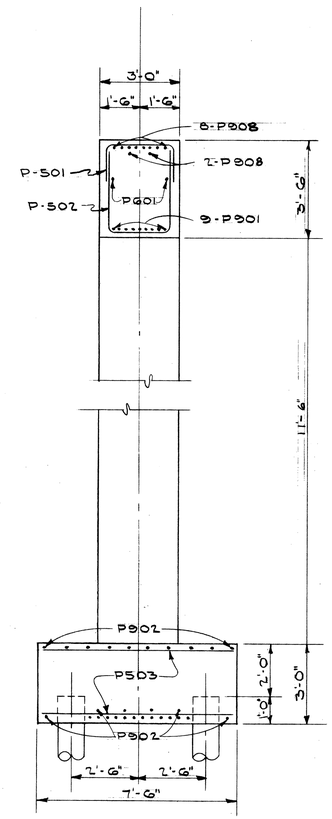
ALL REINFORCING STEEL TO HAVE A 2" MIN. COVER EXCEPT WHERE OTHERWISE NOTED.

ALL PILES TO BE 12" ϕ CAST-IN PLACE CONCRETE.

CARE MUST BE TAKEN IN PLACING REINFORCING STEEL IN THE PIER CAP SO IT WILL NOT INTERFERE WITH THE BEARING PLATE ANCHOR BOLTS



ELEVATION



SECTION A-A

CENTER PIER

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

PIER DETAILS

BRIDGE Nº MED.-1-1330

UNDER POE ROAD C.H. Nº 71
MEDINA COUNTY

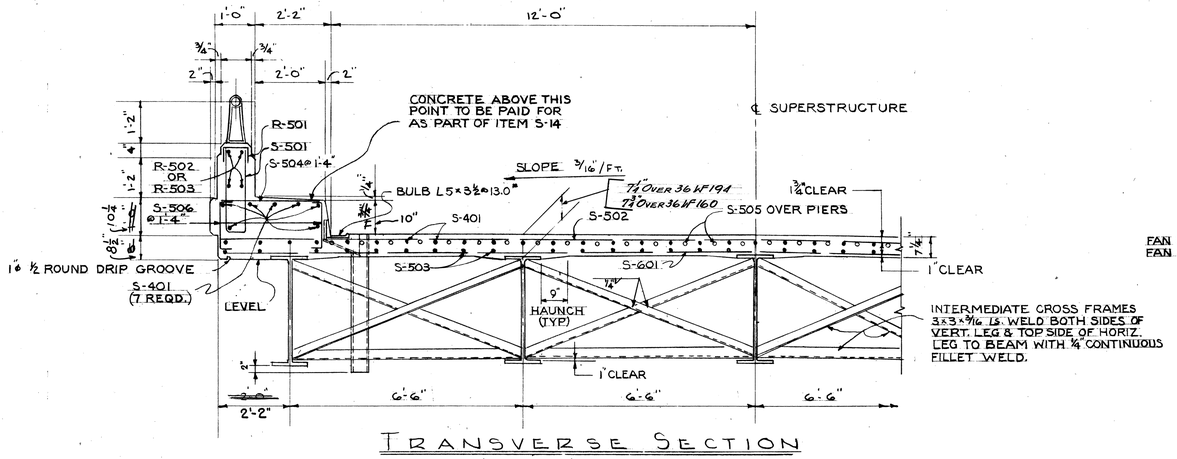
STA. 790+22.79

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
A.H.J.	A.C.		D.H.C.			3.19.58

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

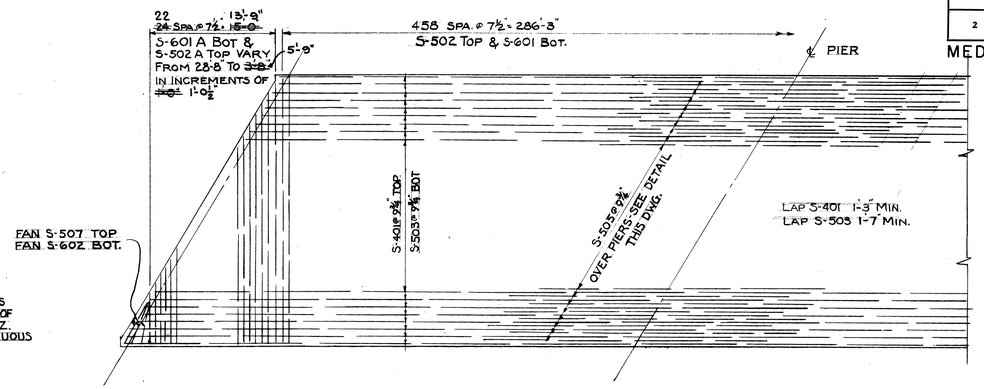
158
189

MED-1-10.09

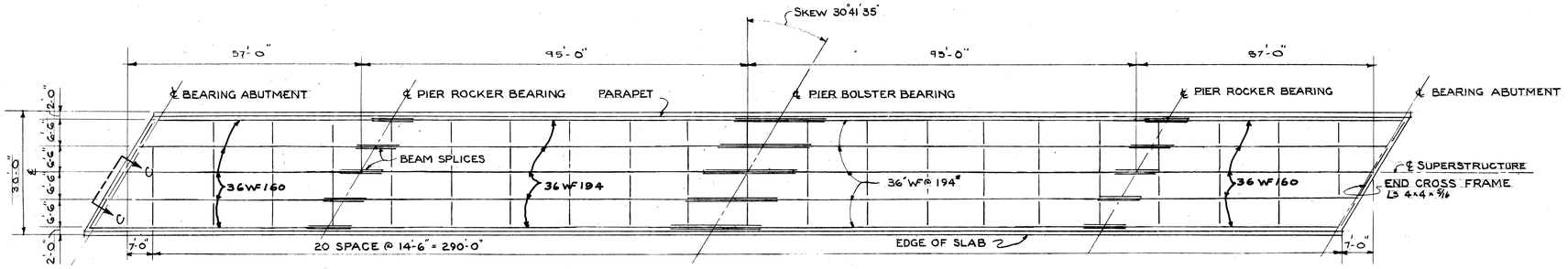


TRANSVERSE SECTION

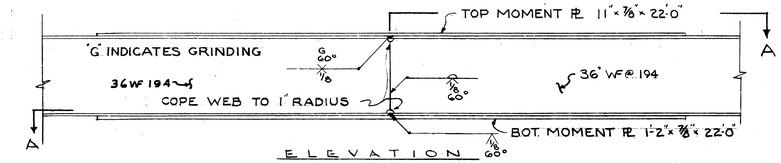
(SYMETRICAL ABOUT ℄)



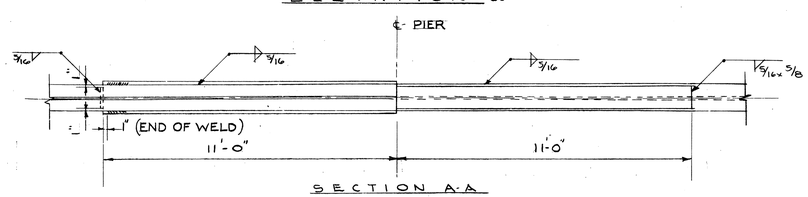
PARTIAL SLAB REINFORCING PLAN



FRAMING PLAN

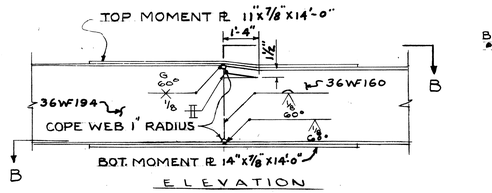


ELEVATION

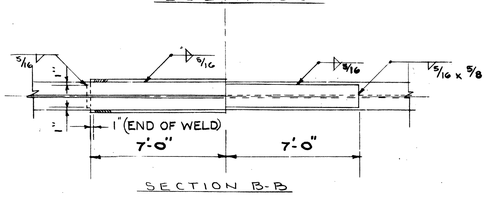


SECTION A-A

AT CENTER PIER



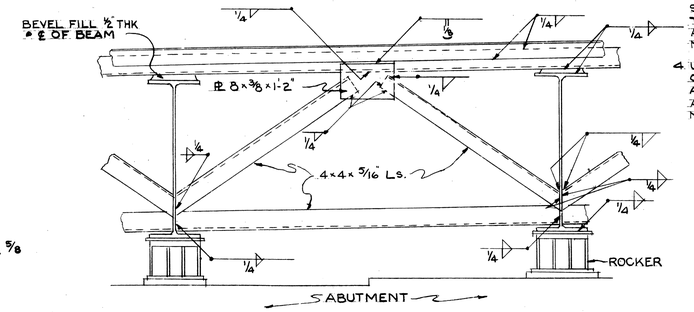
ELEVATION



SECTION B-B

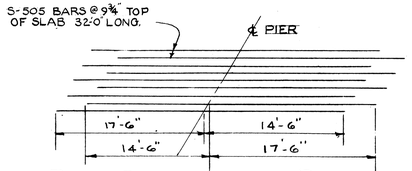
AT END PIERS

BEAM SPLICE DETAILS



SECTION C-C

DEFLECTION & CAMBER				
LOCATION	OUTSIDE BEAMS		INSIDE BEAMS	
	END SPANS	MIDDLE SPANS	END SPANS	MIDDLE SPANS
DEFLECTION DUE TO WT. OF STEEL	0.05	0.30	0.05	0.30
DEFLECTION DUE TO REMAINING DEAD LOAD	0.15	1.75	0.10	1.00
CONVEXITY REQUIRED FOR VERT. CURVE	0.00	0.00	0.00	0.00
SUM OF DEFLECTION & CONVEXITY	0.20	2.05	0.15	1.30
REQUIRED CAMBER	0	2 1/8"	0	1 3/8"



BAR STAGGERING DETAIL

NOTES

1. IN ORDER TO FACILITATE WATER CURING OF THE CONCRETE OF THE DECK SLAB, THE PLACING OF CONCRETE SHALL PROGRESS UPGRADE. THE SLABS MAY BE PLACED IN SECTIONS, BETWEEN TRANSVERSE CONSTRUCTION JOINTS WHICH ARE NORMAL TO THE CENTERLINE OF BRIDGE AND ARE LOCATED NEAR THE CENTER OF ANY SPAN.
2. SLAB THICKNESS SHOWN INCLUDES ¾" MONOLITHIC WEARING SURFACE.
3. WELDING PROCEDURE: LIFT END OF BEAM 1⅛" AT E. OR W. PIERS MAKE WELDED SPLICE AT CENTER PIER THEN LOWER ENDS OF BEAMS INTO PLACE AT E. OR W. PIERS. NEXT LIFT ENDS OF BEAMS 1½" AT ABUTMENTS MAKE WELDED SPLICE AT E. & W. PIERS AND LOWER ENDS OF BEAMS INTO PLACE. BUTT WELD BEAM FLANGES AND WEB AT PIER INDICATED USING THE FOLLOWING SEQUENCE: MAKE ONE PASS ON EACH FLANGE, THEN ONE ON THE WEB. REPEAT UNTIL WELDS ARE COMPLETED. WELD TOP AND BOTTOM FLANGE MOMENT PLATES
4. WELDING OF STRUCTURAL STEEL SHALL BE CLASS "A" EXCEPT AS OTHERWISE SHOWN ANY WELDS SHOWN AS FIELD WELDS, MAY AT THE OPTION OF THE CONTRACTOR, BE MADE IN THE SHOP.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

SUPERSTRUCTURE DETAILS

BRIDGE Nº MED. -I- 1330

UNDER POE ROAD C.H. Nº 71
MEDINA COUNTY

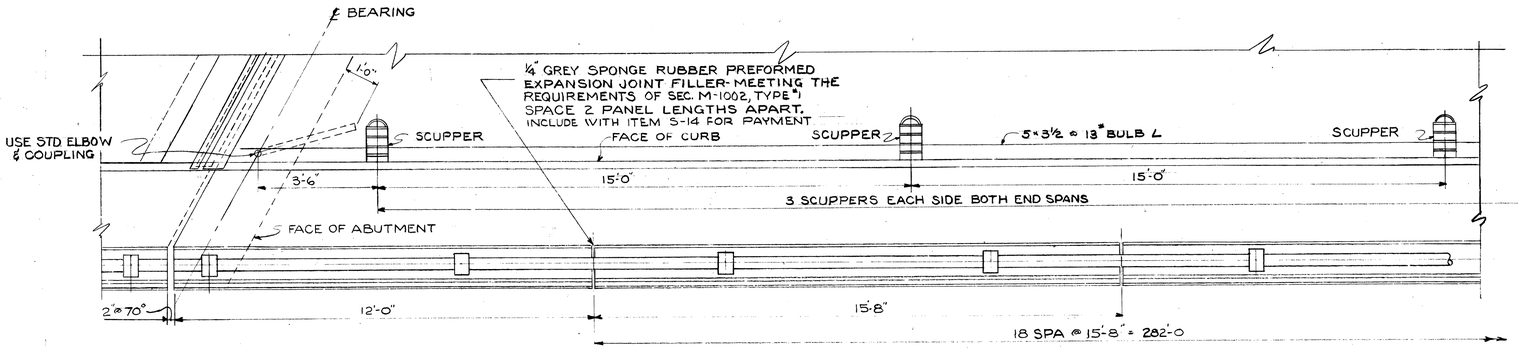
STA. 790 + 22.79

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
AHJ	Brown		DHC			3.19.58

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

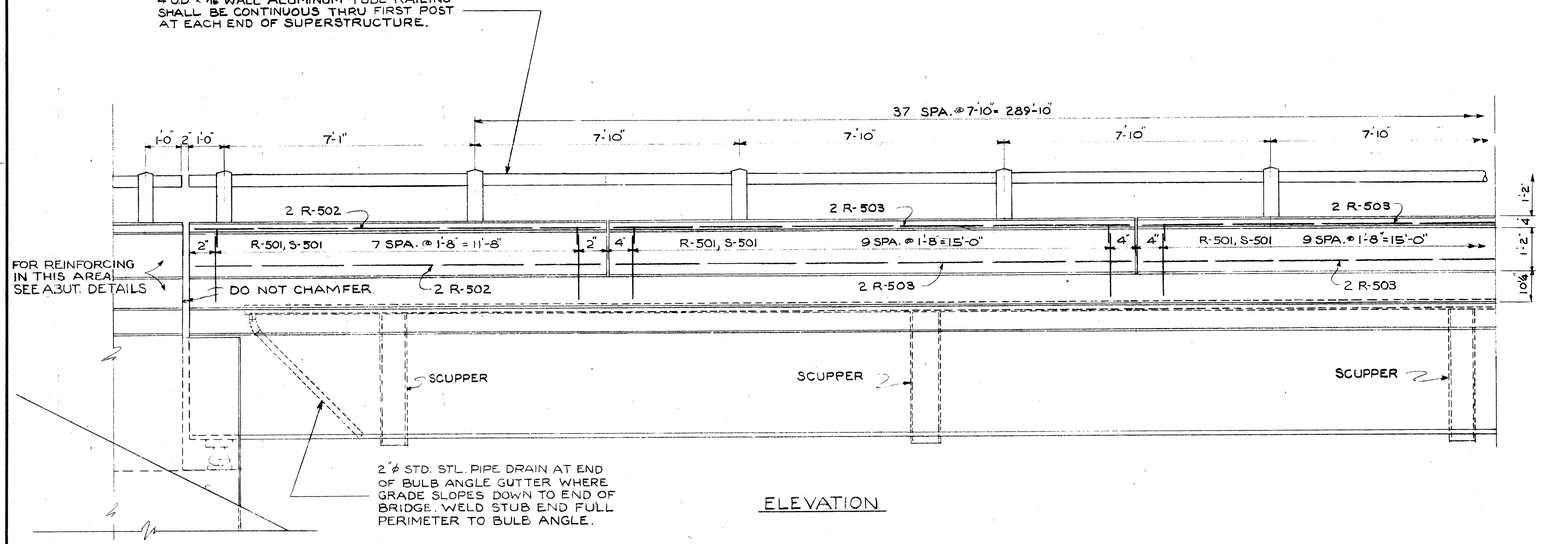
159/189

MED-I-10.09

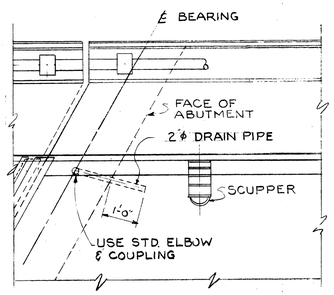


PART DECK PLAN

(OPP. HAND SIMILAR)



ELEVATION



DRAIN PIPE DETAIL-NORTH SIDE

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

RAILING & DRAINAGE

BRIDGE Nº MED. -I- 1330

UNDER POE ROAD C.H. Nº 71
MEDINA COUNTY

STA. 790+22.79

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
AHJ	JLH		DHC			

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

160
189

MED-I-10.09

REINFORCING STEEL SCHEDULE

MARK NO.	NUMBER REQUIRED	LENGTH	WEIGHT IN LBS.	SHAPE	
ABUTMENTS					
A-501	4	36'-10"	154	ST.	
A-502	128	6'-0"	801	BT.	
A-503	46	6'-1"	292	BT.	
A-504	58	1'-9"	106	BT.	
A-505	~~46~~	~~5'-6"~~	~~253~~	~~BT.~~	OPEN
A-506	86	5'-5" ~~4'-5"~~	487 ~~397~~	BT.	
A-507	20	10'-8"	223	ST.	
A-508	86	6'-2" ~~4'-8"~~	553 ~~473~~	ST.	
A-509	12	18'-8"	234	ST.	
A-510	10	1'-5"	15	BT.	
A-511	16	3'-10"	64	ST.	
A-512	6	28'-2"	176	ST.	
A-513	32	34'-6"	1,148	ST	
A-514	4	12'-8"	53	ST.	
A-515	2	9'-6"	20	ST.	
A-516	18	2'-3"	42	ST.	
A-517	2	6'-10"	15	ST.	
A-518	10	8'-6"	89	ST	
A-519	10	6'-6"	68	ST	
A-520	6	17'-3"	108	BT.	
A-521	6	15'-6"	98	BT.	
A-522	140	3'-9"	452	BT.	
A-523	40	5'-9"	240	BT.	
A-524	8	6'-10"	57	BT.	
A-525	8	16'-10"	140	ST.	
A-526	8	15'-10"	132	ST	
A-527	4	11'-2"	47	ST.	
A-528	4	14'-10"	62	BT	
A-529	4	18'-4"	77	BT	
A-530	4	13'-0"	54	ST.	
A-531	4	1'-6"	7	BT	
A-532	4	1'-10"	8	BT.	
A-533	4	2'-2"	9	BT.	
A-534	4	2'-5"	10	BT.	
A-535	4	2'-8"	11	BT.	
A-536	4	2'-10"	12	BT.	
A-537	4	3'-0"	13	BT.	
A-538	4	3'-2"	14	BT.	
A-539	4	3'-4"	14	BT.	
A-540	4	3'-5"	15	BT.	
A-541	28	3'-6"	100	BT.	
					6,063
				TOTAL:	#5 ~~6,376~~
A-601	58	13'-6"	1176	BT.	
				TOTAL:	#6 - 1,176
			GRAND TOTAL FOR ABUTMENTS		~~7,552~~ 7,239
REPLACEMENT STEEL					
RE-401	1	5'-3"		BT.	
RE-402	1	5'-3"		ST.	
RE-501	3	5'-6"		ST.	
RE-601	2	6'-0"		ST.	
RE-901	2	6'-10"		ST.	

MARK NO.	NUMBER REQUIRED	LENGTH	WEIGHT IN LBS.	SHAPE	
SLAB					
S-401	357	44'-9"	10,674	ST	
				TOTAL:	#4 - 10,674
S-501	392	4'-7"	1,872	BT.	
S-502	459	29'-8"	14,204	ST	
SERIES OF S-502A	46	VARY FROM 28'-8" TO 5'-9" INCREMTS 1'-0½"	826	ST.	
S-503	224	45'-1"	10,528	ST.	
S-504	458	2'-8"	1,273	ST.	
S-505	90	32'-0"	3,000	ST.	
S-506	916	2'-0"	1,911	BT.	
S-507	6	5'-0"	31	ST.	
				TOTAL	#5-33645
S-601	459	29'-8"	20,456	ST.	
SERIES OF S-601A	46	VARY FROM 28'-8" TO 5'-9" INCREMTS: 1-0½	1189	ST.	
S-602	6	5'-0"	45	ST.	
				TOTAL:	#6- 21,689
			GRAND TOTAL FOR SLAB:		66,008
PIERS					
P-501	57	5'-6"	327	BT.	
P-502	57	8'-6"	505	BT.	
P-503	138	7'-2"	1032	ST.	
				TOTAL:	#5 - 1,864
P-601	6	30'-8"	276	ST	
				TOTAL:	#6 - 276
P-901	25	30'-8"	2607	ST.	
P-902	72	33'-11"	6,304	ST	
P-903	36	14'-6"	1775	ST.	
P-904	42	3'-7"	1226	BT.	
P-905	108	6'-4"	2,324	BT	
P-906	36	15'-7"	1907	ST.	
P-907	36	16'-11"	2071	ST.	
P-908	28	27'-5"	2595	ST.	
P-909	12	8'-10"	360	BT.	
				TOTAL:	#9- 23,169
			GRAND TOTAL FOR PIERS:		25,309
RAILING ⊗					
R-501	432	1'-5"		BT.	
R-502	16	11'-8"		ST.	
R-503	152	15'-4"		ST.	
R-504	8	14'-4"		ST	

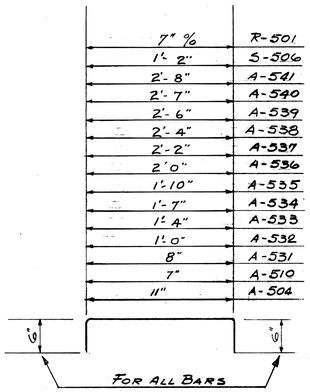
SPIRAL REINFORCEMENT FOR PIERS - (SEE NOTE)

MARK NO.	NUMBER REQUIRED	CORE DIA OF SPIRAL	LENGTH OF SPIRAL	PITCH	NO OF TURNS	WEIGHT IN LBS.
SP-401	3	2'-8"	12'-7"	4"	41	678
SP-402	3	2'-8"	11'-6"	4"	38	627
SP-403	3	2'-8"	13'-11"	4"	45	744
SPACERS						309
				TOTAL:		2,358

100,913
TOTAL STEEL REQUIRED FOR BRIDGE WITHOUT RAILING := 101,167

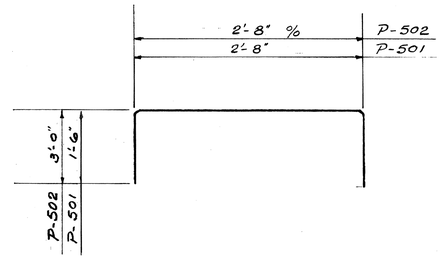
⊗ RAILING REINFORCEMENT STEEL TO BE INCLUDED IN ITEM 5-14 FOR PAYMENT.

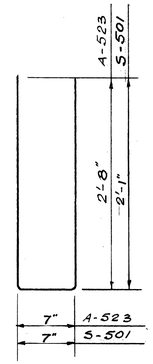
REPLACEMENT BARS: IF REINFORCING BARS ARE FABRICATED FROM STOCK WHICH HAS PREVIOUSLY BEEN TESTED AND APPROVED BY THE OHIO HIGHWAY TESTING LABORATORY, TEST SAMPLES AS PROVIDED IN SEC 5-4.02 NEED NOT BE FURNISHED AND REPLACEMENT BARS WILL NOT BE REQUIRED.

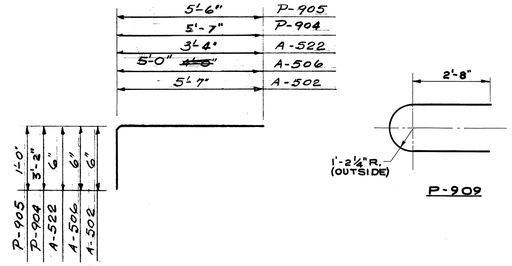


BENDING DIAGRAM

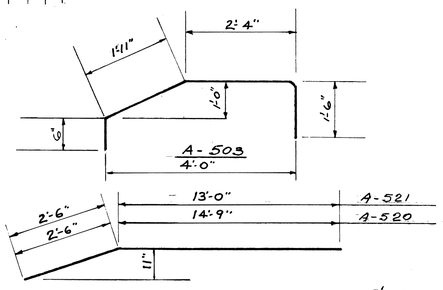
ALL DIMENSIONS ARE FROM OUT TO OUT.

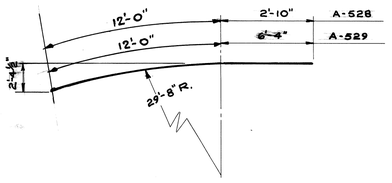


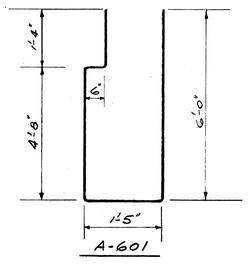




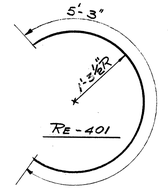
P-909

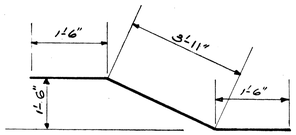






A-601





A-524

SPIRAL REINFORCING NOTES

FOUR STEEL CHANNEL, TEE OR ANGLE SPACERS WEIGHING APPROXIMATELY 0.68 LBS PER LIN. FT. OF SPACER, SHALL BE PROVIDED FOR EACH SPIRAL UNIT. THEY SHALL BE EQUALLY SPACED ALONG THE PERIPHERY OF THE COIL. THE NUMBER OF POUNDS OF THESE SPACERS BASED ON 0.68 LBS PER LIN. FT. WILL BE PAID FOR AS REINFORCING STEEL AND IS INCLUDED IN THE TABULATED QUANTITY OF SPIRAL BARS.

THE LENGTH SHOWN IN SCHEDULE FOR SPIRAL BARS IS THE DISTANCE FROM THE TOP OF THE FOOTING TO THE BOTTOM OF THE PIER CAP.

THE NO. OF TURNS SHOWN IN SCHEDULE FOR SPIRAL BARS IS THE LENGTH DIVIDED BY THE PITCH PLUS THREE TURNS (TOTAL NO OF CLOSED COILS) EXPRESSED AS THE NEAREST WHOLE NUMBER.

SPIRAL REINFORCING BARS SHALL NOT HAVE DEFORMATIONS BUT SHALL IN OTHER RESPECTS CONFORM TO ITEM S-4 (REINFORCING STEEL)

1½ CLOSED COILS SHALL BE PROVIDED AT THE ENDS OF EACH SPIRAL UNIT.

BAR SIZE IS INDICATED IN THE BAR MARK, THE FIRST DIGIT, WHERE 3 DIGITS ARE USED - INDICATES THE BAR SIZE NUMBER FOR EXAMPLE P-907 IS A No 9 SIZE BAR.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

REINFORCING SCHEDULE

BRIDGE Nº MED. -I- 1330

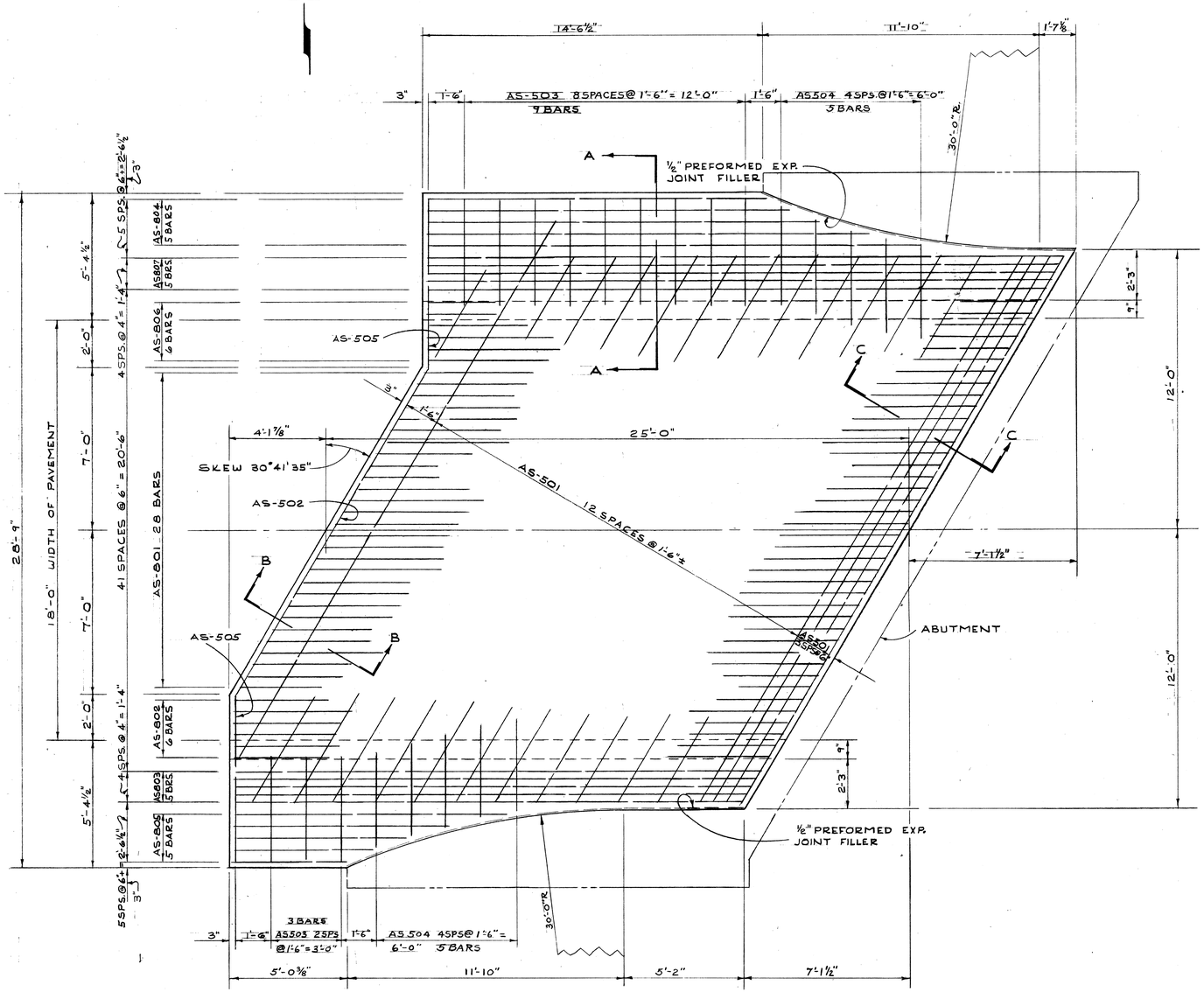
UNDER POE ROAD C.H. Nº 71
MEDINA COUNTY

STA. 790 + 22.79

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
AHJ	Y.K.		DHC			3.19.58

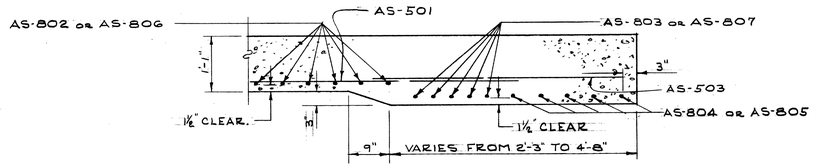
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

MED.-I-10.09

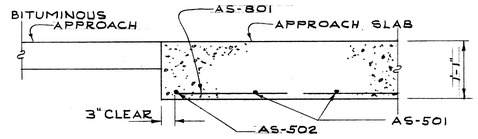


WEST APPROACH SLAB AS SHOWN
EAST. APPROACH SLAB SAME BUT REVERSE DIRECTION

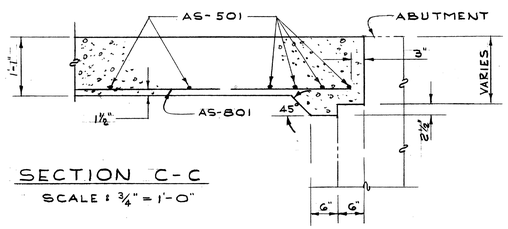
PLAN - WEST APPROACH SLAB
SCALE : ⅜" = 1'-0"



SECTION A A
SCALE : ¾" = 1'-0"



SECTION B-B
SCALE : ¾" = 1'-0"



SECTION C-C
SCALE : ¾" = 1'-0"

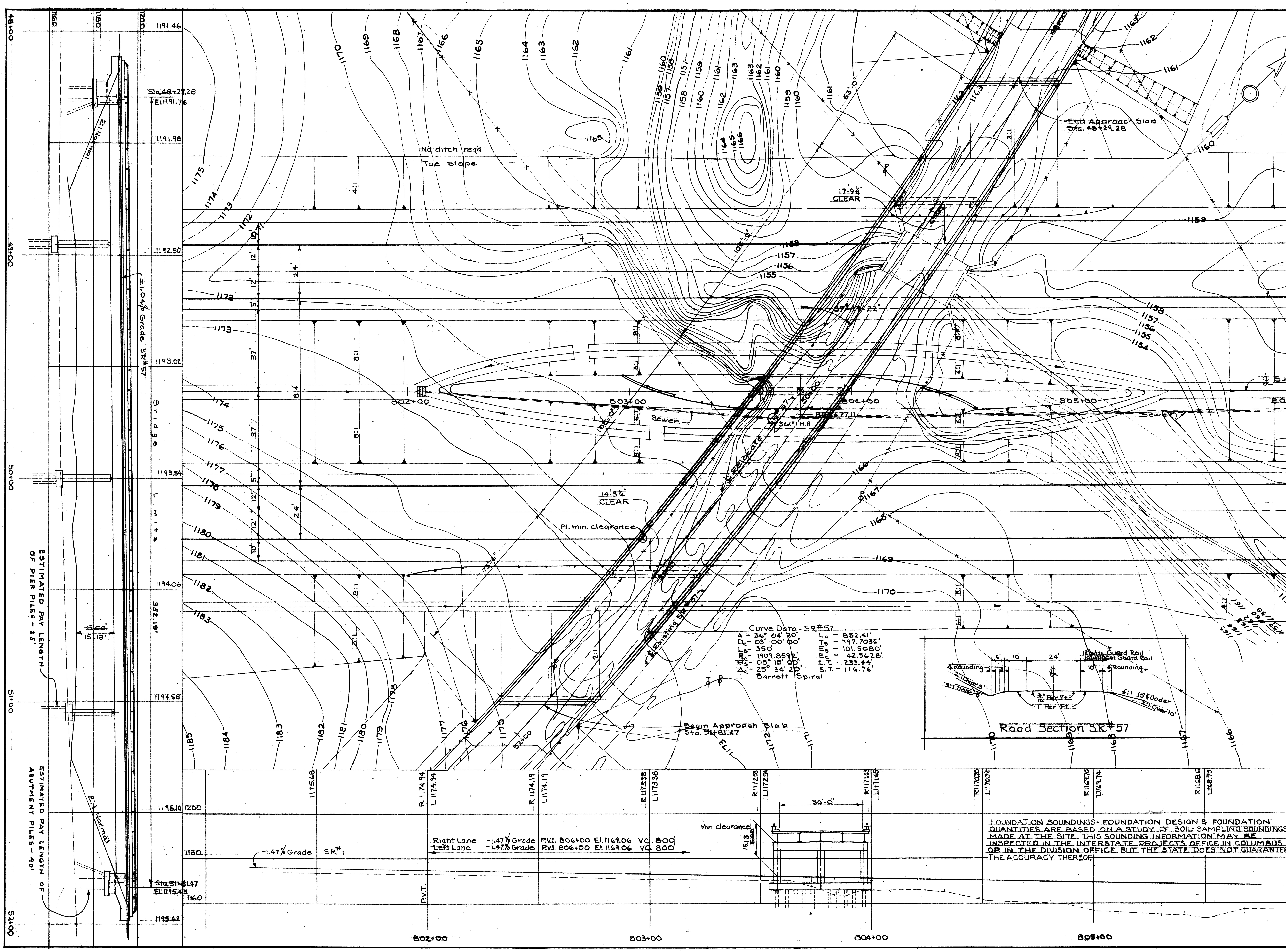
NOTE:- PREFORMED EXPANSION JOINT FILLER SHALL BE INCLUDED IN THE PRICE BID FOR ITEM I-7, "REINFORCED CONCRETE APPROACH SLAB".

QUANTITY FOR TWO APPROACH SLABS

REINFORCING BAR SCHEDULE

MARK	No.	LENGTH	WEIGHT	SHAPE
AS-501	32	27'-6"	920#	ST.
AS-502	2	21'-0"	44	ST.
AS-503	24	4-6	113	ST.
AS-504	20	4-0	83	ST.
AS-505	4	7-2	30	ST.
AS-801	56	24-6	3660	ST.
AS-802	12	VARIES 22-10 TO 24-6 INCREMENTS 3½"	756	ST.
AS-803	10	VARIES 21-9 TO 22-6 INCREMENTS 3¼"	591	ST.
AS-804	10	VARIES 14'-4" TO 21'-0" INCREMENTS 1'-8"	474	ST.
AS-805	10	VARIES 2'-6" TO 11'-2" INCREMENTS 1'-0"	209	ST.
AS-806	12	VARIES 24-8 TO 26-2 INCREMENTS 3½"	814	ST.
AS-807	10	VARIES 26-6 TO 27-3 INCREMENTS 2¼"	719	ST.
		TOTAL	8413#	

APPROACH SLAB, BRIDGE NO. MED.-I-1330



Proposed Structure

Type: Continuous steel girder with reinforced concrete deck and substructure.
Span: 63-105-105-73.5 c/c Brgs. See Geom. Layout.
Roadway: 30' f/f 2'-0" Safety curbs
Load frequency: C.F. 400
Skew: 37° 17' 22" RF From subtangent
Wearing surface: 1" Monolithic
Approach slab: 25' Long AS-1-54
Alignment: 03°-00'-00" Curve Right
Superelevation: 0.071 ft/ft.
See Dwg. For Geometric Layout.
Traffic Count - 3130 ADT 1975

FOUNDATION SOUNDINGS- FOUNDATION DESIGN & FOUNDATION QUANTITIES ARE BASED ON A STUDY OF SOIL-SAMPLING SOUNDINGS MADE AT THE SITE. THIS SOUNDING INFORMATION MAY BE INSPECTED IN THE INTERSTATE PROJECTS OFFICE IN COLUMBUS OR IN THE DIVISION OFFICE. BUT THE STATE DOES NOT GUARANTEE THE ACCURACY THEREOF.

FED. RD.	STATE	PROJECT
2	OHIO	I-1105(25)

MED-1-10.09

162/189

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

SITE PLAN

BRIDGE NO. MED-1-1345
UNDER STATE ROUTE NO. 57
MEDINA COUNTY

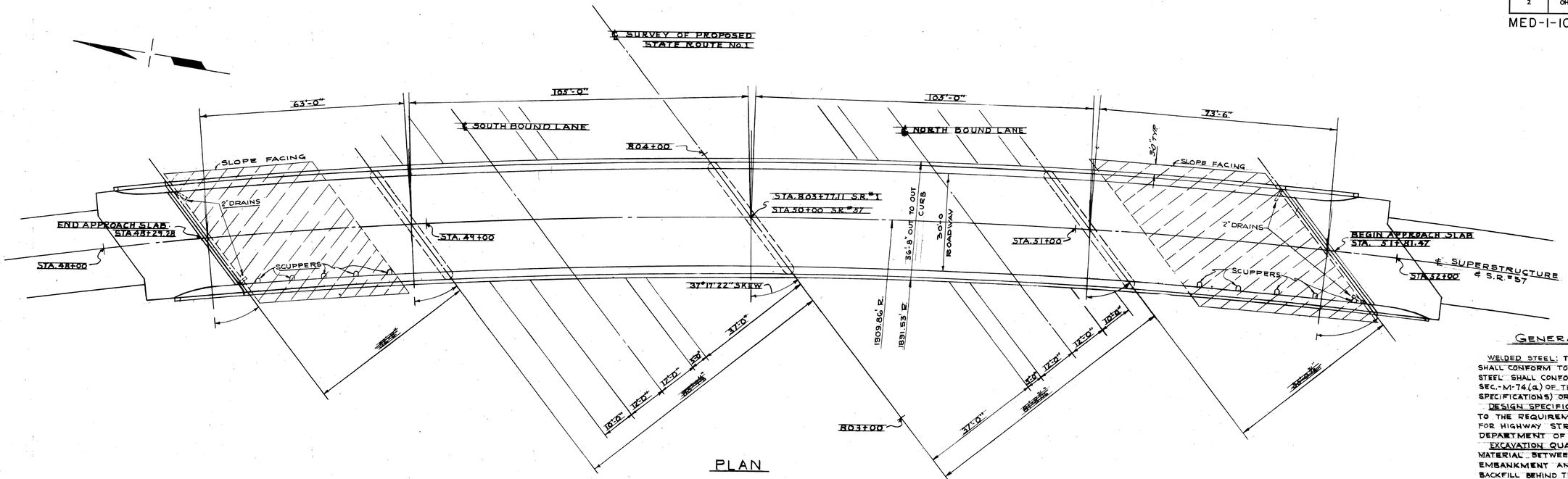
STA. 803+77.11 SCALE: 1" = 20'

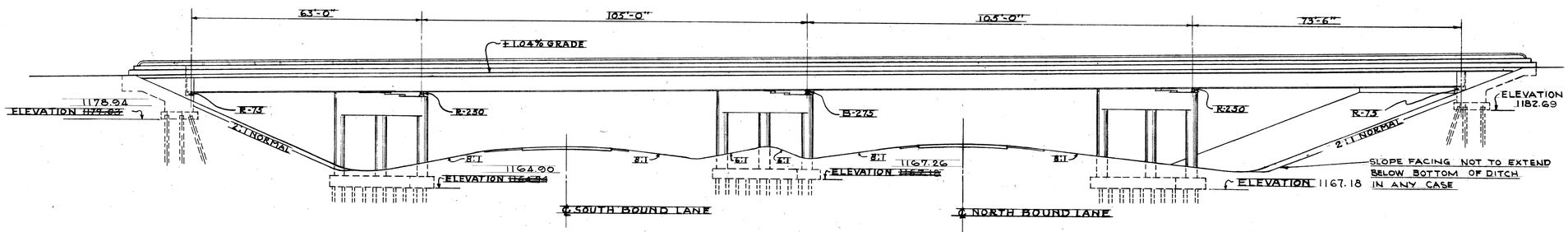
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
EAK	[illegible]		DHC			3-19-58

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

MED-I-10.09

163
189





ELEVATION

General Notes

WELDED STEEL: THE STEEL FOR THE 51' BUILT UP GIRDERS SHALL CONFORM TO A.S.T.M. DESIGNATION A-373, ALL OTHER STEEL SHALL CONFORM TO EITHER A.S.T.M. A-7 (AS PER SEC.-M-74(a) OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS) OR TO A-373.

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO THE REQUIREMENTS OF "DESIGN SPECIFICATIONS FOR HIGHWAY STRUCTURES" OF THE STATE OF OHIO, DEPARTMENT OF HIGHWAYS - DATED 10/1/57

EXCAVATION QUANTITY INCLUDES THE REMOVAL OF FILL MATERIAL BETWEEN THE SURFACE OF THE PROPOSED EMBANKMENT AND THE BOTTOM OF THE ABUTMENTS. BACKFILL BEHIND THE ABUTMENTS SHALL BE MADE WITH MATERIAL MEETING THE REQUIREMENTS OF SEC.-I-22 AND SHALL BE COMPACTED IN ACCORDANCE WITH REQUIREMENTS FOR EMBANKMENT COMPACTION. PAYMENT FOR BACKFILL SHALL BE INCLUDED WITH ITEM E-2 UNCLASSIFIED EXCAVATION.

ALL PILES TO BE 12" BP 53 STEEL PILES DRIVEN TO A MINIMUM BEARING CAPACITY OF FORTY (40) TONS.

SLOPE FACING ONE (1) FOOT IN DEPTH EXTENDING FROM FACE OF ABUTMENT FOR FULL WIDTH OF BRIDGE PLUS THREE (3) FEET ON EACH SIDE OF BRIDGE AND PARALLEL WITH ℄ OF SUPERSTRUCTURE.

REFERENCE SHALL BE MADE TO STANDARD DRAWINGS BP-1-55 DATED 3-1-55, AR-1-57 DATED 4-9-57, CSBP-2-56 SHEETS 2 & 3 DATED 12-3-56 AND TO SUPPLEMENTAL SPECIFICATIONS S-114 DATED 8-20-55.
SEE DRAWING "175 FOR STANDARD DETAILS THIS SET.

WELDING OF STRUCTURAL STEEL SHALL BE CLASS "A" EXCEPT AS OTHERWISE SHOWN. ANY WELDS SHOWN AS FIELD WELDS MAY AT THE OPTION OF THE CONTRACTOR, BE MADE IN THE SHOP.

Piles To Rock Note:

PILES SHALL BE DRIVEN TO FIRM CONTACT WITH ROCK. IF THE LENGTH OF PENETRATION IS APPROXIMATELY EQUAL TO THE DEPTH TO ROCK ACCORDING TO THE BRIDGE FOUNDATION INVESTIGATION REPORT, THE FIRM CONTACT SHALL BE CONSIDERED AS ATTAINED WHEN THE CAPACITY ACCORDING TO THE FORMULA IN SEC. S-18.05 IS NOT LESS THAN THE FOLLOWING VALUE FOR A PILE HAMMER OF THE INDICATED ENERGY RATING:

FOR ABUTMENT PILES:
45 TONS PER PILE USING A 11,000 FT. LB. HAMMER.
45 " " " " " 15,000 " " "
FOR PIER PILES:
45 TONS PER PILE USING A 11,000 FT. LB. HAMMER
45 " " " " " 15,000 " " "

THE DESIGN LOAD IS 40 TONS PER PILE FOR THE ABUTMENT PILES AND 35 TONS PER PILE FOR THE PIER PILES.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

GENERAL PLAN & ELEVATIONS

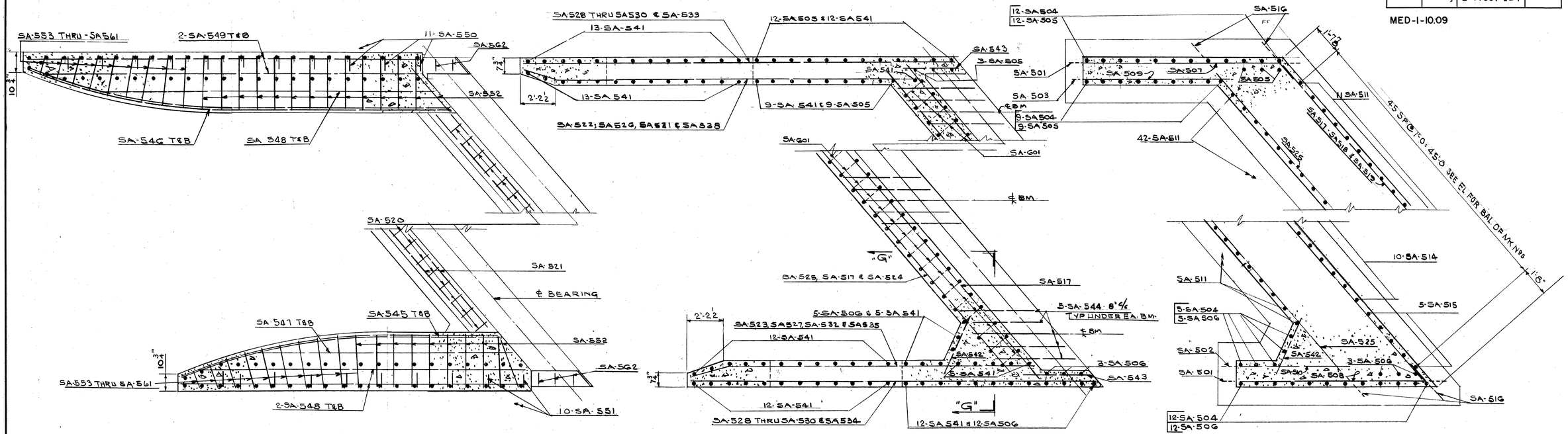
BRIDGE NO. MED-I-1345
UNDER STATE ROUTE NO.57
MEDINA COUNTY
STA. 803+77.11

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
EAK	P.Y.		DHC			3.19.58

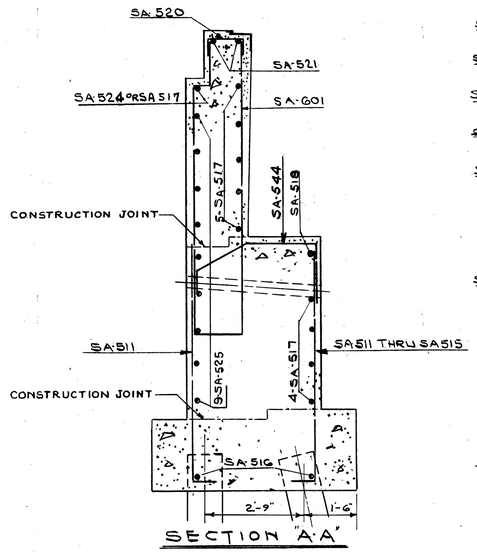
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

164
189

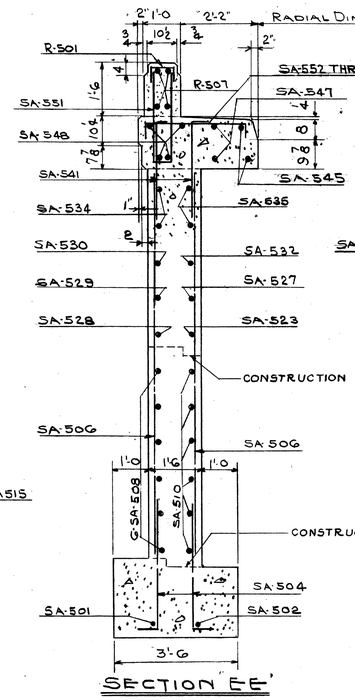
MED-I-10.09



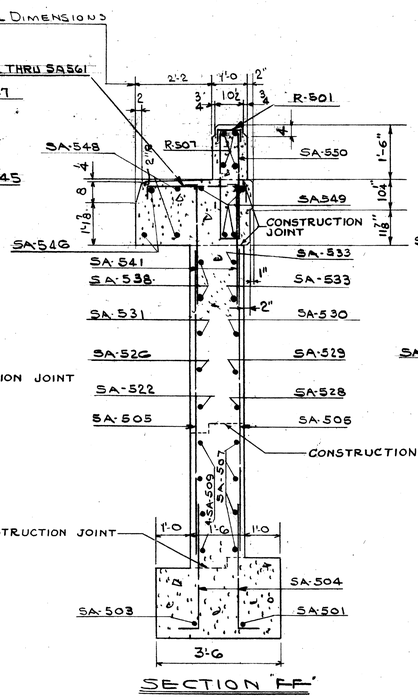
SECTION "BB"



SECTION "AA"

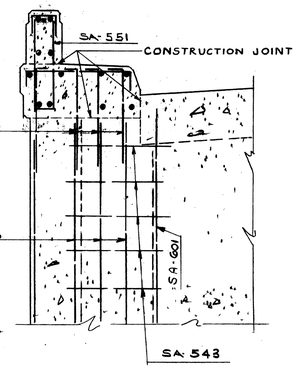


SECTION "EE"



SECTION "FF"

SECTION "CC"



SECTION GG
BARS NOT SHOWN
SAME AS SEC. EE

SECTION "DD"

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

ABUTMENT DETAILS - SOUTH
BRIDGE NO. MED-I-1345
UNDER STATE ROUTE NO. 57
MEDINA COUNTY
STA. 803+77.11

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
EAK	CW		DHC.			

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

MED-1-10.09

165/189

PLAN

ELEVATION · FACE OF ABUTMENT

ELEVATION EAST WING WALL

ELEVATION WEST WING WALL

SECTION A-A

NOTE

ALL REINFORCING STEEL TO BE COVERED WITH 3" OF CONCRETE WHEN BEARING ON EARTH - ALL OTHER STEEL MUST BE COVERED WITH 2" OF CONCRETE UNLESS OTHERWISE NOTED

THE CONCRETE IN THE ABUTMENT BACKWALL SHALL NOT BE PLACED UNTIL AFTER THE STEEL WORK IS ERECTED. BUT SHALL BE PLACED BEFORE THE DECK SLAB CONCRETE IS PLACED.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

ABUTMENT DETAILS - SOUTH

BRIDGE NO. MED-1-1345
UNDER STATE ROUTE NO. 57
MEDINA COUNTY
STA. 803+77.11

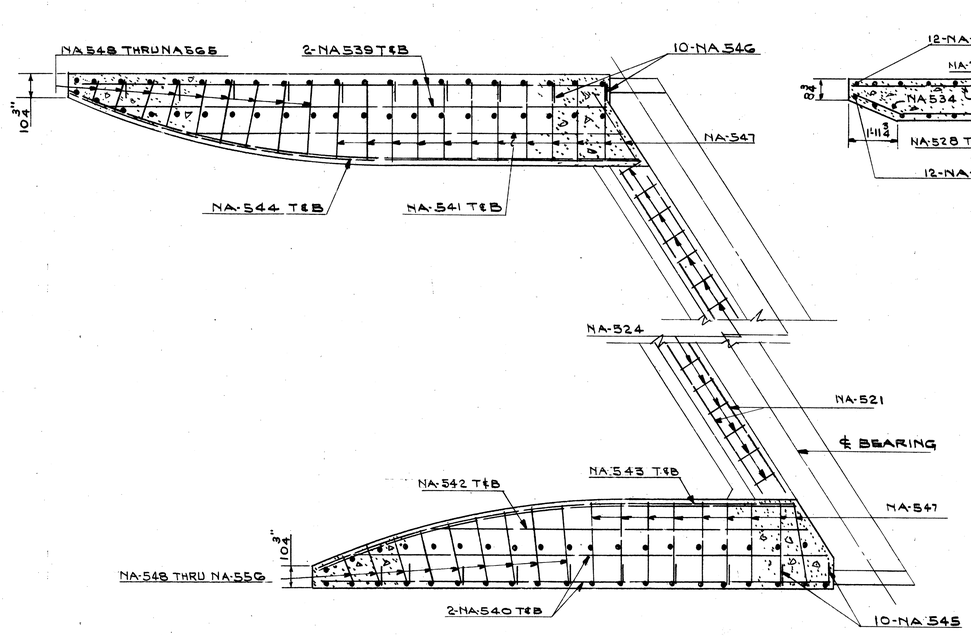
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
EAK	CW		DHC			

CONTRACT "A"

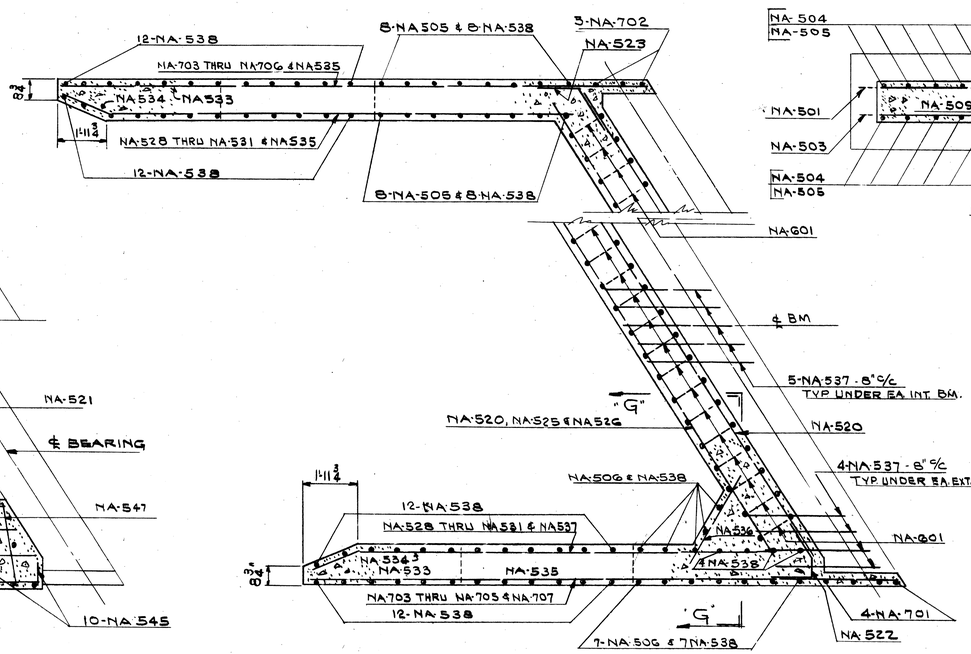
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

MED-1-10.09

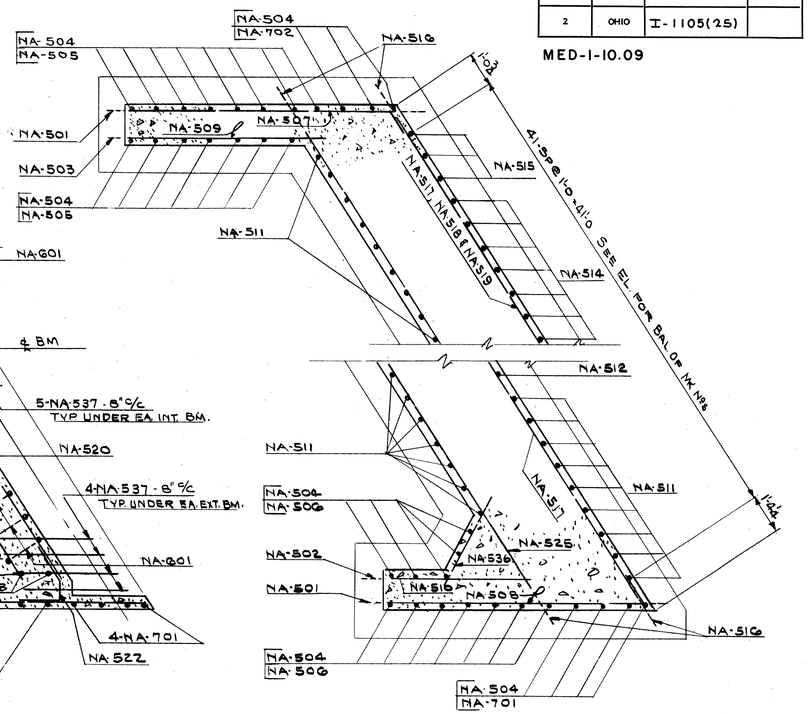
166
189



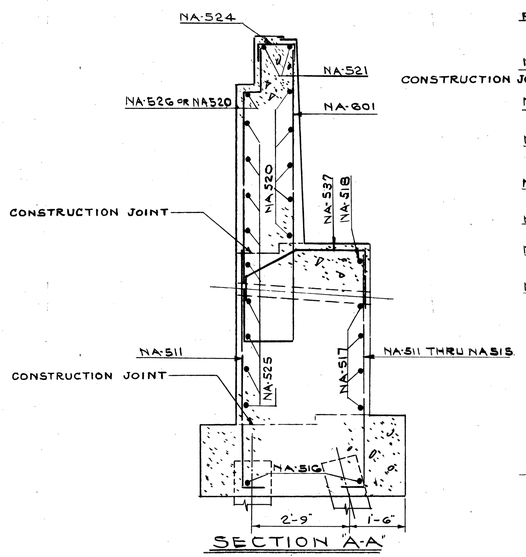
SECTION 'B-B'



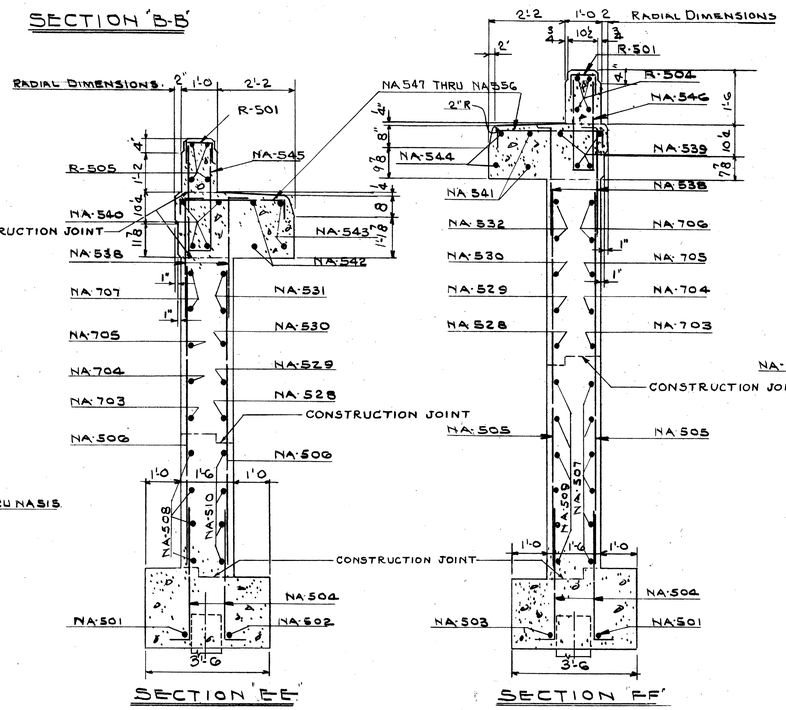
SECTION 'C-C'



SECTION 'D-D'

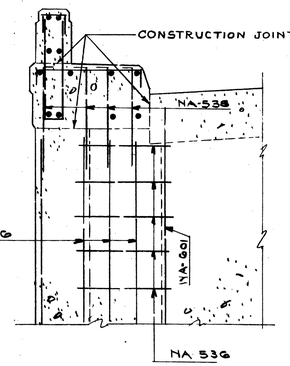


SECTION 'A-A'



SECTION 'E-E'

SECTION 'F-F'



SECTION G-G
BARS NOT SHOWN
SAME AS SEC EE

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

ABUTMENT DETAILS - NORTH

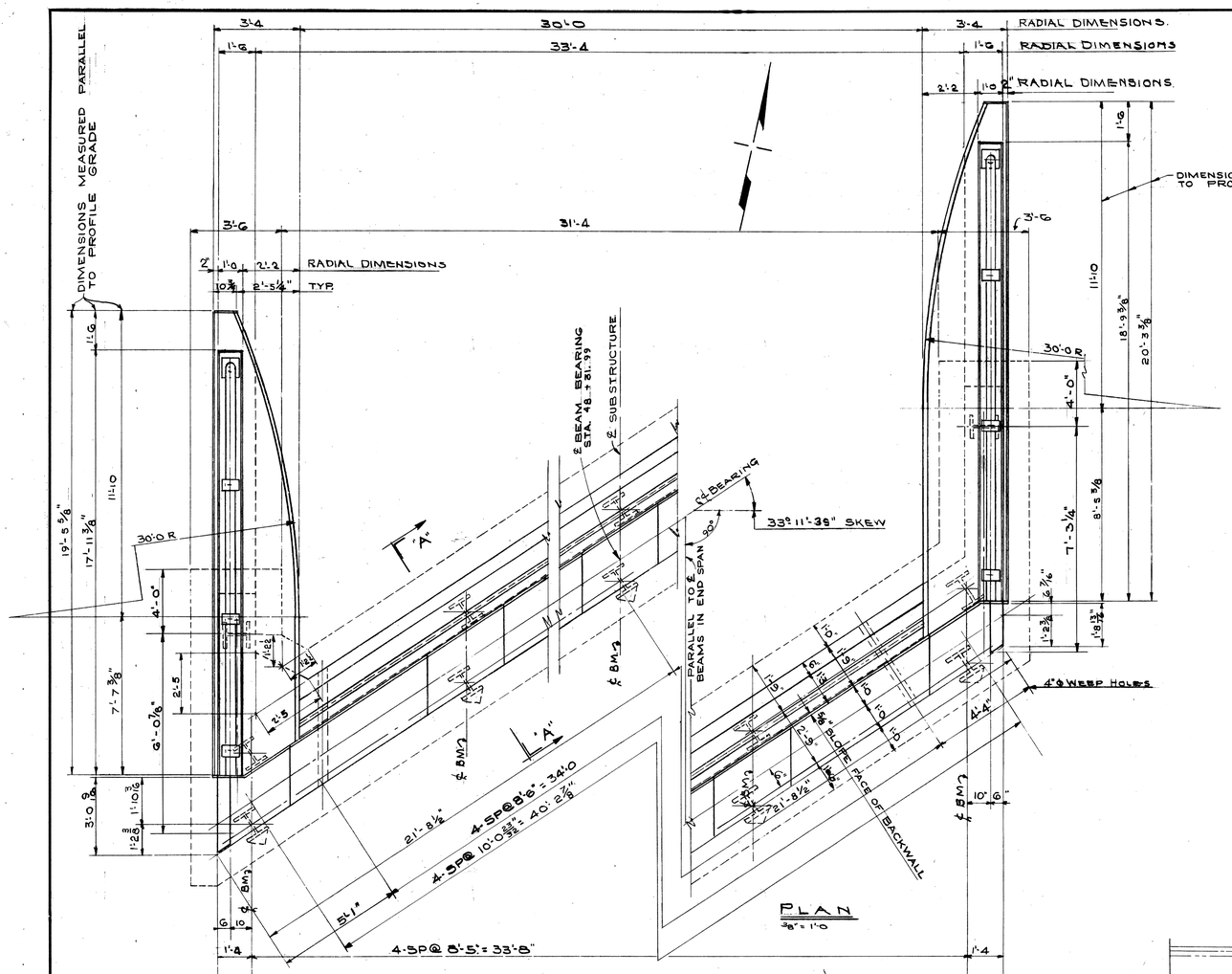
BRIDGE NO. MED-I-1345
UNDER STATE ROUTE NO. 57
MEDINA COUNTY
STA. 803+77.11

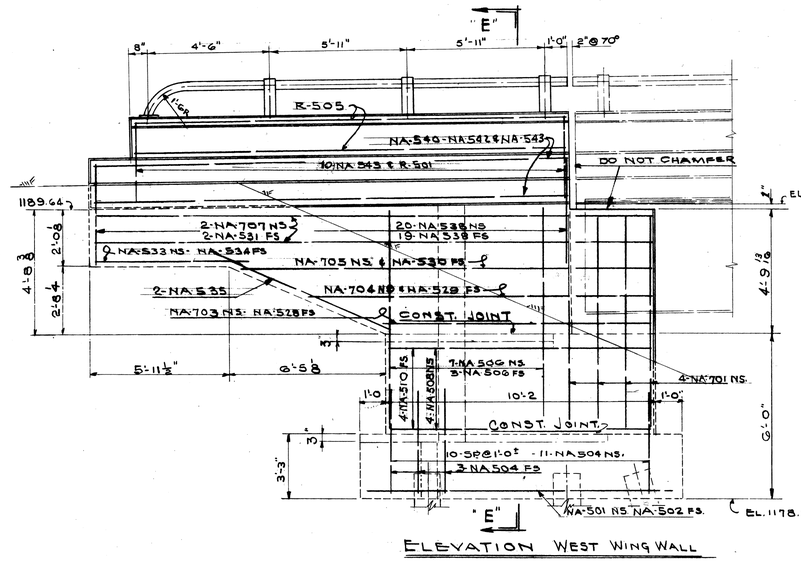
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
EAK	ww		DHC			

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (25)	

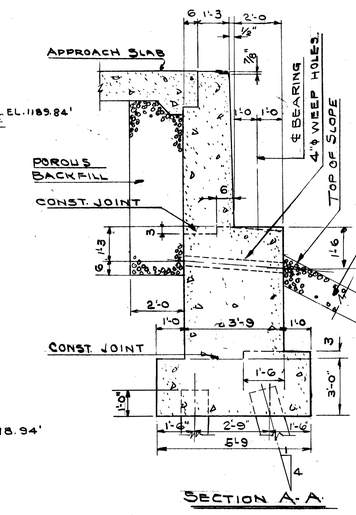
167/189

MED-1-10.09

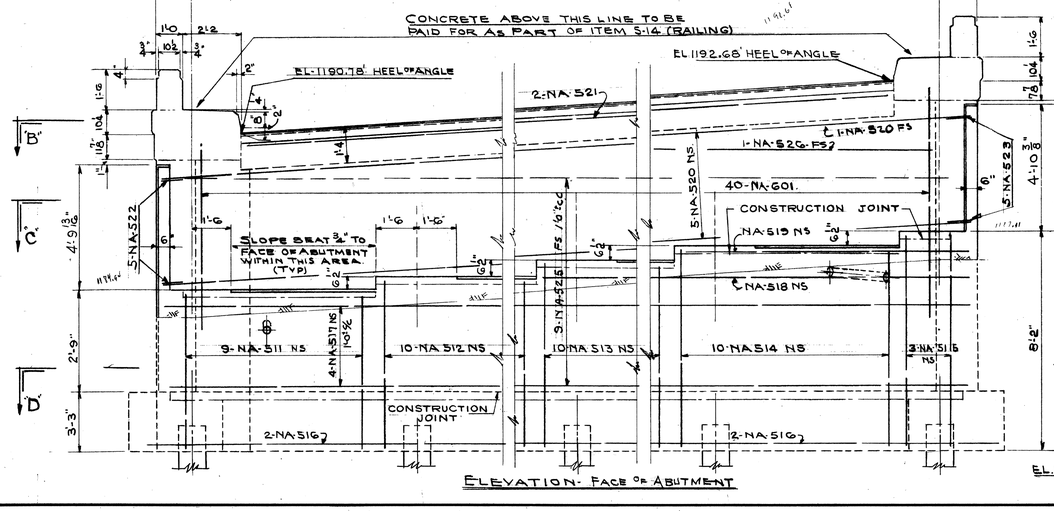




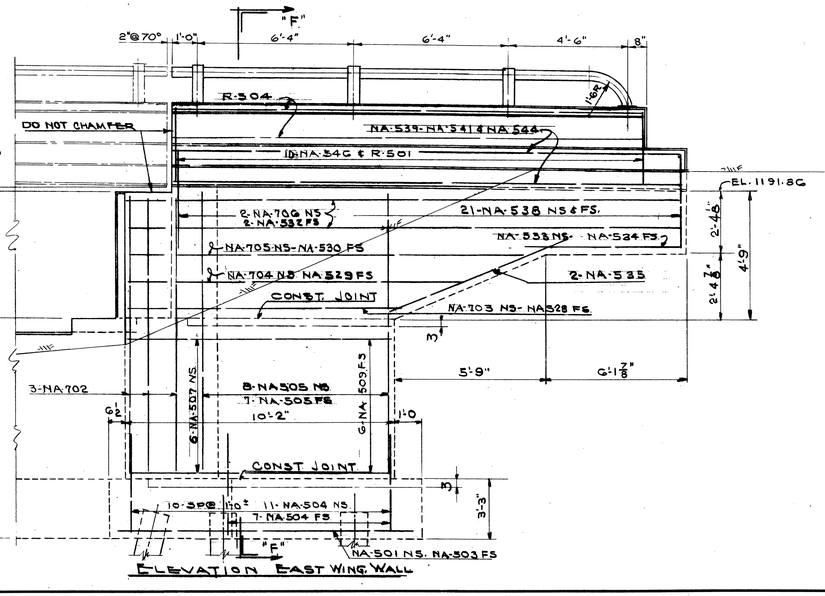
ELEVATION WEST WING WALL



SECTION A-A



ELEVATION- FACE OF ABUTMENT



ELEVATION EAST WING WALL

NOTE:-
ALL REINFORCING STEEL TO BE COVERED WITH 3" OF CONCRETE WHEN BEARING ON EARTH - ALL OTHER STEEL MUST BE COVERED WITH 2" OF CONCRETE UNLESS OTHERWISE NOTED.
THE CONCRETE IN THE ABUTMENT BACKWALL SHALL NOT BE PLACED UNTIL AFTER THE STEEL WORK IS ERECTED, BUT SHALL BE PLACED BEFORE THE DECK SLAB CONCRETE IS PLACED

EMBANKMENT: THE EMBANKMENT SHALL BE PLACED AND COMPACTED UP TO THE FINISHED SPILL-THRU SLOPE AND TO THE LEVEL OF THE SUBGRADE FOR A DISTANCE OF 100 FT. BACK OF THE ABUTMENTS, AFTER WHICH EXCAVATION SHALL BE MADE FOR THE ABUTMENTS.

THERE SHALL BE A MINIMUM TIME LAPSE OF 5 MONTHS BETWEEN PLACING OF EMBANKMENT AND BEGINNING OF ABUTMENT CONSTRUCTION.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

ABUTMENT DETAILS - NORTH

BRIDGE NO. MED-1-1345
UNDER STATE ROUTE NO. 57
MEDINA COUNTY
STA. 803+77.11

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
EAK	EW		DHC			

CONTRACT #4

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

168
189

MED-I-10.09

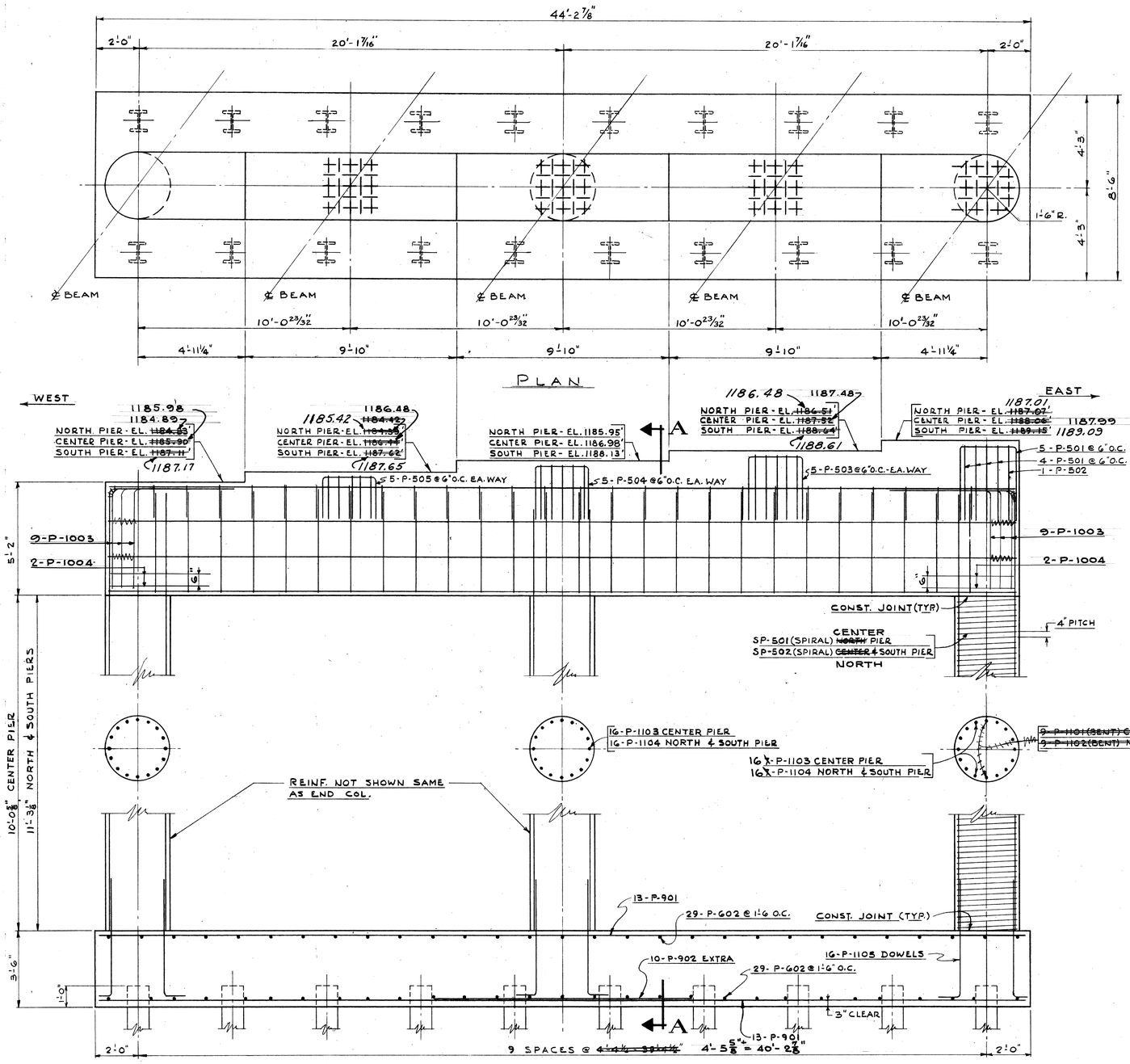
NOTE:

ALL REINFORCING STEEL TO HAVE A 2" MINIMUM COVER EXCEPT WHERE OTHERWISE NOTED.

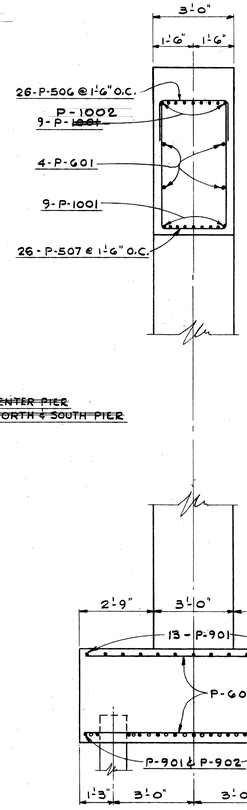
ALL PILES TO BE 12" BP53, DRIVEN TO 40 TON MINIMUM BEARING CAPACITY

SEE STANDARD DRAWING RB-1-55 FOR BEAM BEARING DETAILS

SPECIAL CARE SHALL BE TAKEN IN PLACING REINFORCING STEEL IN THE PIER CAP SO THAT IT WILL NOT INTERFERE WITH THE ANCHOR PLATE ANCHOR BOLTS.

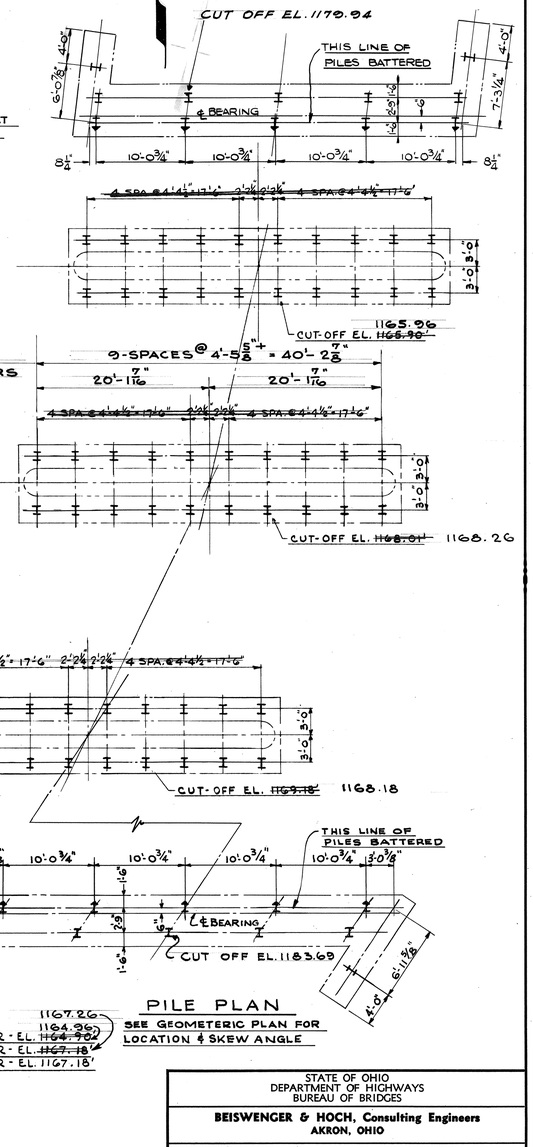


ELEVATION LOOKING NORTH



SECTION A-A

TYPICAL PILE SPACING FOR PIERS



PILE PLAN

SEE GEOMETERIC PLAN FOR LOCATION & SKEW ANGLE

1167.26
1164.36
NORTH PIER - EL. 1164.36'
CENTER PIER - EL. 1167.18'
SOUTH PIER - EL. 1167.18'

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

PIER DETAILS

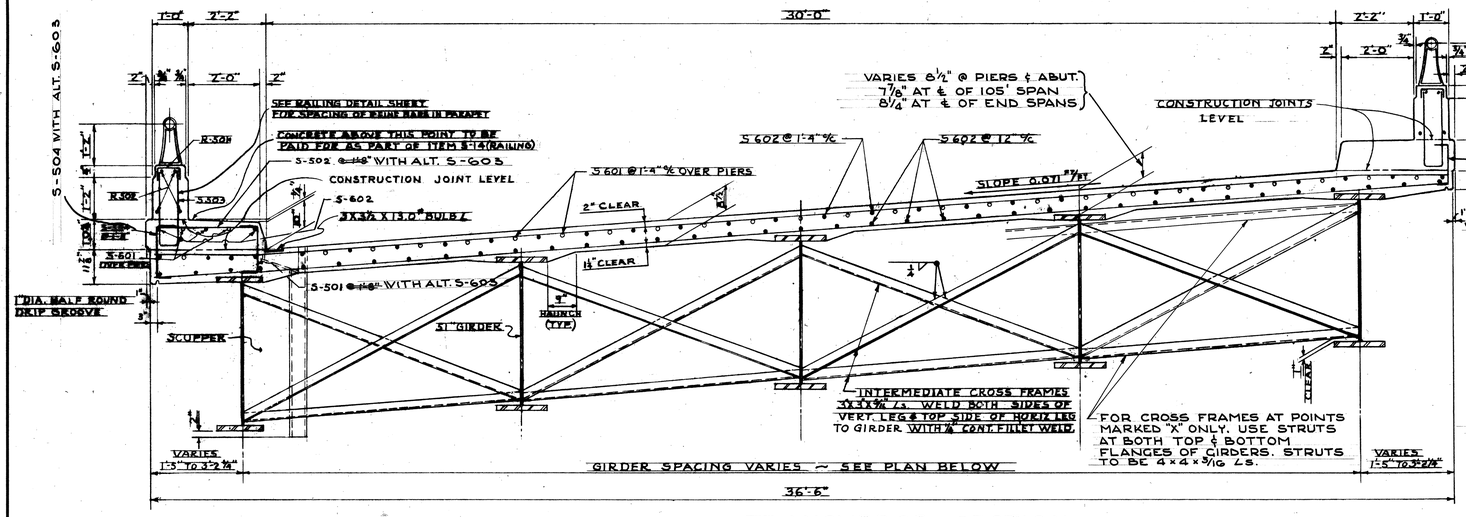
BRIDGE NO. MED-1-1345
UNDER STATE ROUTE NO. 57
MEDINA COUNTY
STA. 803+77.11

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
EAK	MARAK		DHC			3.19.58 5.20.58

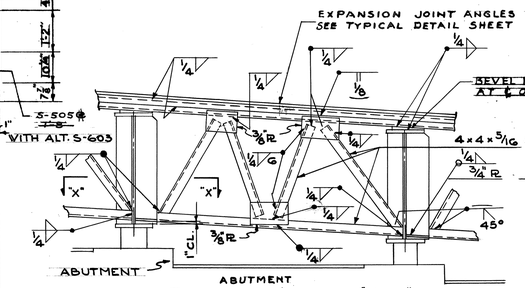
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(19)	

169/189

MED-I-10.09

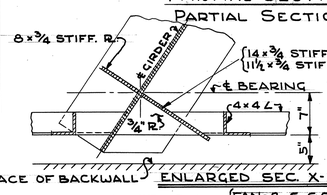


TRANSVERSE SECTION

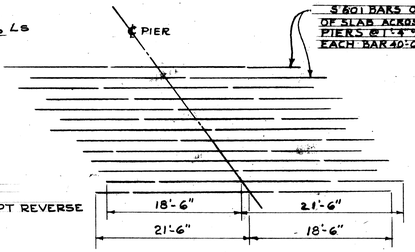


PARTIAL SECTION "B-B" (AS SHOWN)

PARTIAL SECTION "B1-B1" (SAME EXCEPT REVERSE SLOPE)



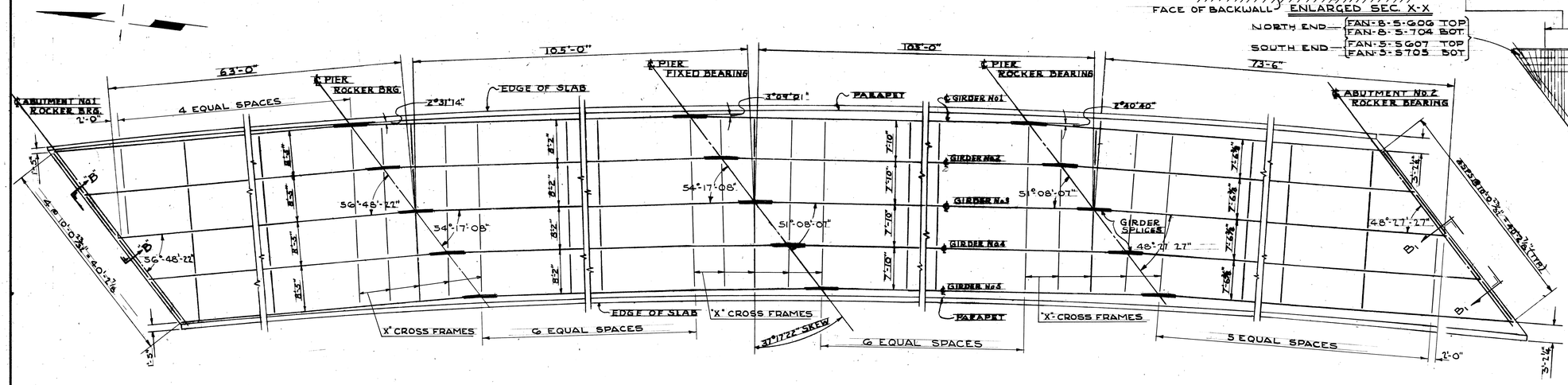
ENLARGED SEC. X-X



BAR STAGGERING DETAIL OVER PIERS

NORTH END @ ABUT. #1 — S-604 BARS, TOP / S-702 BARS, BTM. — 16 SPS @ 8" = 10'-5", LGTH. VARIES FROM 34'-7" TO 60'-6", INCREMENTS OF 1'-4"

SOUTH END @ ABUT. #2 — S-604 BARS, TOP / S-703 BARS, BTM. — 34 SPS @ 8" = 24'-1", LGTH. VARIES FROM 34'-10½" TO 71'-3", INCREMENTS OF 0 3/4".



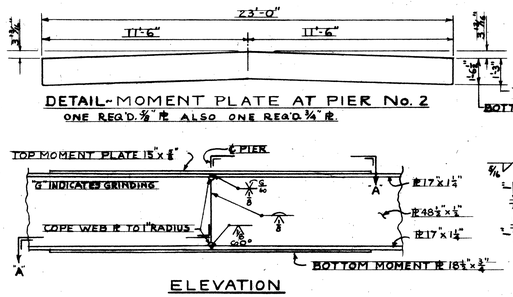
FRAMING PLAN

PARTIAL SLAB REINFORCING PLAN

DEFLECTION & CAMBER	OUTSIDE BEAMS		INSIDE BEAMS	
	END SPANS	MIDDLE SPANS	END SPANS	MIDDLE SPANS
DEFLECTION DUE TO WEIGHT OF STEEL	0.05	0.25	0.05	0.25
DEFLECTION DUE TO REMAINING DEAD LOAD	0.20	1.50	0.10	1.00
CONVEXITY REQUIRED FOR VERTICAL CURVE	0.00	0.00	0.00	0.00
SUM OF DEFLECTION & CONVEXITY	0.25	1.75	0.15	1.25
REQUIRED CAMBER	0	1¾"	0	1¼"

NOTES:

WELDING PROCEDURE: LIFT END OF GIRDER 3½" AT PIER No 1 OR PIER No 3. MAKE WELDED SPLICE AT PIER No 2. THEN LOWER END OF GIRDER INTO PLACE AT PIER No 1 OR No 3. NEXT LIFT ENDS OF GIRDERS AT ABUTMENTS, 1" AT SOUTH ABUTMENT & ¾" AT NORTH ABUTMENT. MAKE WELDED SPLICE AT PIERS No 1 & No 3, AND LOWER ENDS OF GIRDERS INTO PLACE. BUTT-WELD BEAM FLANGES AND WEBS AT PIERS INDICATED USING THE FOLLOWING SEQUENCE: MAKE ONE PASS ON EACH FLANGE, THEN ONE ON THE WEB. REPEAT UNTIL WELDS ARE COMPLETED. THEN WELD TOP & BOTTOM MOMENT PLATES.



GIRDER SPLICE DETAILS

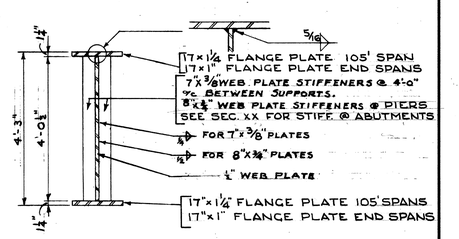


PLATE GIRDER DETAIL

NOTES:-

1. CONCRETE DECK PLACING: IN ORDER TO FACILITATE WATER CURING OF THE CONCRETE OF THE DECK SLAB, THE PLACING OF CONCRETE SHALL PROGRESS UPGRADE. THE SLAB MAY BE PLACED IN SECTIONS. BETWEEN TRANSVERSE CONSTRUCTION JOINTS WHICH ARE NORMAL TO THE CENTER LINE OF BRIDGE AND ARE LOCATED NEAR THE CENTER OF ANY SPAN.
2. SLAB THICKNESS INCLUDES 1" MONOLITHIC WEARING SURFACE.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

SUPERSTRUCTURE DETAILS

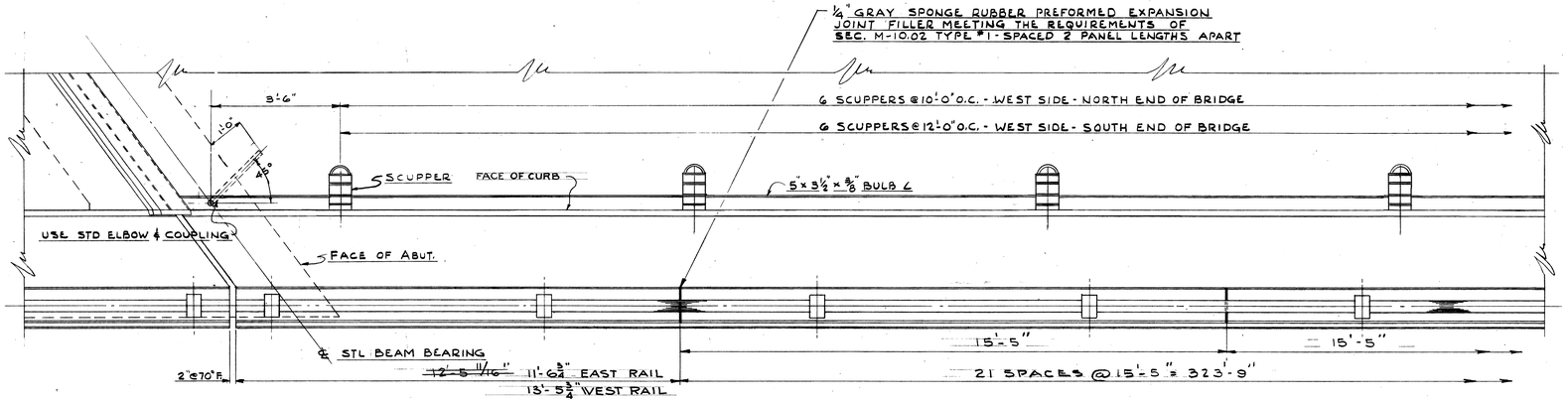
BRIDGE NO. MED-I-1345
UNDER STATE ROUTE NO.57
MEDINA COUNTY
STA. 803+77.11

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
EAK.	P.Y.		DHC			3.19.58

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

170/189

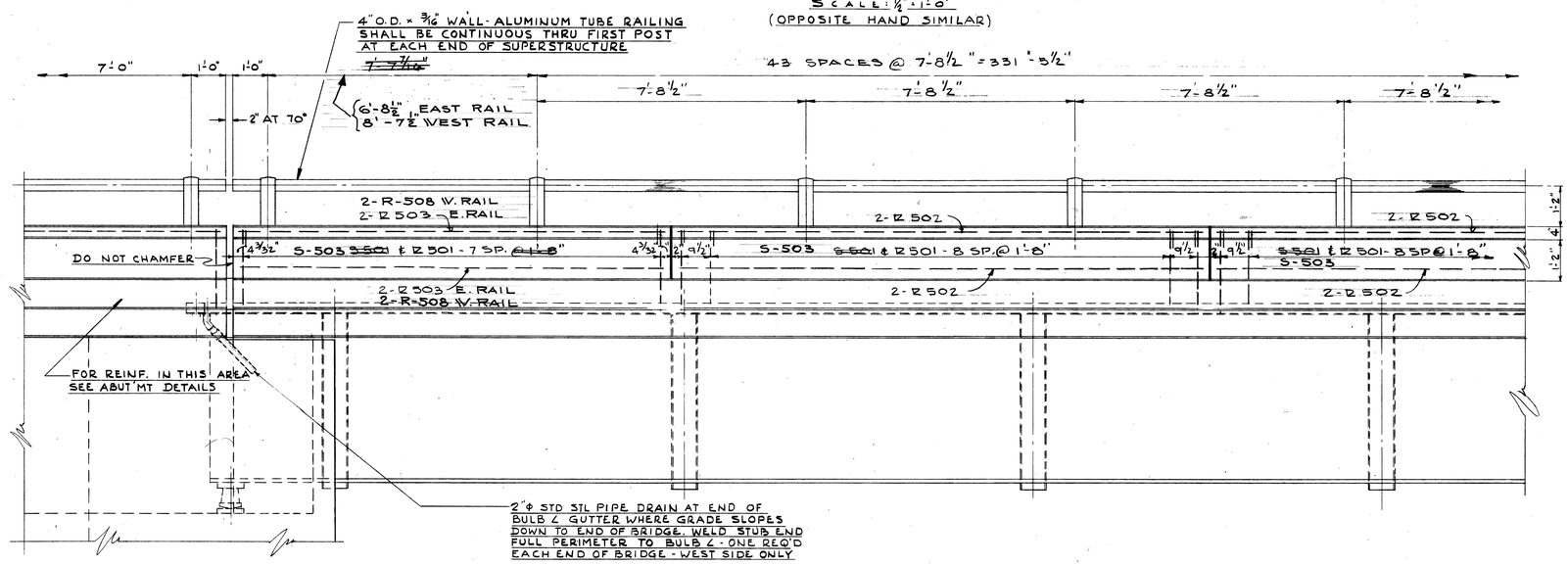
MED-1-10.09



PART DECK PLAN

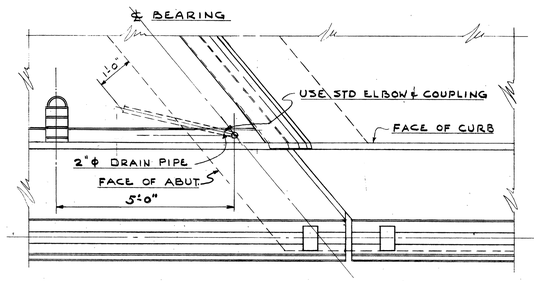
SCALE: 1/8" = 1'-0"

(OPPOSITE HAND SIMILAR)



ELEVATION

SCALE: 1/2" = 1'-0"



DRAIN DETAIL - SOUTH END

SCALE: 1/2" = 1'-0"

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER	ABUT.	PIER	GEN.
E-2	LUMP	SUM	COFFERDAMS CRIBS & SHEETING				LUMP
E.2	495	CU.YDS	UNCLASSIFIED EXCAVATION		244	251	
S-1	334	CU.YDS	CLASS 'C' CONCRETE - SUPERSTRUCTURE	334			
S-1	127	CU.YDS	CLASS 'E' CONCRETE - ABUTMENTS		127		
S-1	86	CU.YDS	CLASS 'C' CONCRETE - PIERS ABOVE FOOTINGS			86	
S-1	193	CU.YDS	CLASS 'E' CONCRETE - PIER & ABUTMENT FOOTINGS		59	134	
	~~174,720~~			113,300		50,842	
S-4	~~174,585~~	LBS	REINFORCING STEEL	~~113,445~~	10,578	~~50,562~~	
S-7	348,100	LBS	STRUCTURAL STEEL	348,100			
S-8	348,100	LBS	FIELD PAINTING OF STRUCTURAL STEEL	348,100			
S-14	775	LIN.FT.	RAILING (ALUM. RAILS & SUPPORTS CONC. PARAPETS & END POSTS)	699	76		
S-16	LUMP	SUM	FIRST TEST PILE				
S-18	2460	LIN.FT.	STEEL PILES, 12 BP53		960	1500	
S-29	37	CU.YDS	POROUS BACKFILL		37		
S-29	40	CU.YDS	SLOPE FACING (S-29.05 TYPE)		40		

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

DRAINAGE PLAN & DETAILS

BRIDGE NO. MED-1-1345
UNDER STATE ROUTE NO. 57
MEDINA COUNTY
STA. 803+77.11

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
EAK	MARAK		DHC			3.19.58

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

174
189

MED-I-10.09

REINFORCING STEEL SCHEDULE

MARK Nº	Nº REQD	LENGTH	WEIGHT LBS.	SHAPE	REMARKS
NORTH ABUTMENT					
NA-501	2	11'-8"	25	ST	
NA-502	1	5'-9"	6	ST	
NA-503	1	8'-0"	8	ST	180
NA-504	34-5	~~11'-4"~~	~~145~~	BNT	
NA-505	15-9	~~10'-6"~~	~~154~~	ST	148
NA-506	12-7	~~11'-4"~~	~~104~~	ST	91
NA-507	6	10'-10"	68	BNT	
NA-508	4	10'-6"	44	BNT	
NA-509	6	7'-3"	45	ST	
NA-510	4	5'-6"	23	ST	
NA-511	47	6'-0"	294	BNT	
NA-512	10	6'-6"	68	BNT.	
NA-513	10	7'-1"	144	BNT	
NA-514	10	7'-7"	79	BNT	
NA-515	3	8'-2"	26	BNT	
NA-516	4	23'-0"	96	ST	
NA-517	4	42'-11"	179	ST	
NA-518	1	22'-9"	24	ST	
NA-519	1	12'-9"	13	ST	
NA-520	6	42'-2"	254	ST	
NA-521	2	35'-6"	74	ST	
NA-522	5	4'-0"	21	BT	
NA-523	5	3'-4"	17	BT	
NA-524	36	1'-8¼"	66	BT	
NA-525	9	~~41'-0"~~	385	ST	
NA-526	1	30'-0"	31	ST	
NA-527	-	-	-	-	
NA-528	2	6'-6"	14	ST	
NA-529	2	8'-11"	19	ST	
NA-530	2	11'-4"	24	ST	
NA-531	2	17'-9"	37	BT	
NA-532	2	18'-11"	39	BT	
NA-533	2	6'-3"	13	ST	
NA-534	2	6'-6"	14	BT	
NA-535	4	7'-8"	32	ST	
NA-536	9	3'-9"	35	ST	
NA-537	23	6'-1½"	147	BT	
NA-538	83	3'-10"	332	BT	
NA-539	4	20'-0"	83	ST	
NA-540	4	19'-2"	80	ST	
NA-541	2	16'-9"	35	ST	
NA-542	2	14'-3"	30	ST	
NA-543	2	18'-3"	38	BT	
NA-544	2	21'-6"	45	BT	
NA-545	10	6'-4½"	67	BT	
NA-546	10	5'-8½"	60	BT	
NA-547	21	3'-7"	78	BT	
NA-548	2	3'-6"	7	BT	
NA-549	2	3'-4½"	7	BT	
NA-550	2	3'-3"	7	BT	
NA-551	2	3'-1"	6	BT	
NA-552	2	2'-10"	6	BT	
NA-553	2	2'-7"	5	BT	
NA-554	2	2'-4"	5	BT	
NA-555	2	2'-0½"	4	BT	
NA-556	2	1'-6"	3	BT	
NA-601	40	18'-0"	1081	BT	
NA-701	4-7	~~8'-3"~~	~~67~~ 59	ST	
NA-702	3-9-8	~~10'-5"~~	~~64~~ 58	ST	
NA-703	2	11'-2"	46	ST	
NA-704	2	13'-7"	56	ST	
NA-705	2	16'-0"	65	ST	
NA-706	2	21'-9"	89	ST	
NA-707	2	22'-2"	91	ST	
GRAND TOTAL		~~5224~~ *	5,224		

REINFORCING STEEL SCHEDULE (CONT)

MARK No.	NO. REQD	LENGTH	WEIGHT LBS	SHAPE	REMARKS
SOUTH ABUTMENT					
SA-501	2	12'-1"	25	ST	
SA-502	1	6'-0"	6	ST	
SA-503	1	10'-0"	10	ST	
SA-504	38-5	~~11'-4"~~	~~162~~	BT	202
SA-505	24-7	~~9'-3"~~	~~83~~	ST	58
SA-506	20-9	~~10'-6"~~	~~216~~	ST	195
SA-507	4	12'-0"	50	BT	
SA-508	6	11'-7"	73	BT	
SA-509	4	7'-11"	33	ST	
SA-510	6	5'-8"	35	ST	
SA-511	53	6'-0"	330	BT	
SA-512	10	6'-6"	68	BT	
SA-513	10-6	~~10'-11"~~	~~75~~	BT	71
SA-514	10-7	~~7'-7"~~	~~79~~	BT	76
SA-515	5-7	~~8'-2"~~	~~43~~	BT	40
SA-516	4	25'-6"	106	ST	
SA-517	20	24'-6"	511	ST	
SA-518	1	25'-4"	26	ST	
SA-519	1	15'-3"	16	ST	
SA-520	40	1'-9¾"	73	BT	
SA-521	2	39'-8"	83	ST	
SA-522	1	10'-0"	10	ST	
SA-523	1	7'-9"	81	ST	
SA-524	1	19'-6"	20	ST	
SA-525	18	23'-6"	441	ST	
SA-526	1	12'-8"	13	ST	
SA-527	1	10'-5"	11	ST	
SA-528	2	11'-6"	24	ST	
SA-529	2	14'-2"	30	ST	
SA-530	2	16'-10"	35	ST	
SA-531	1	15'-4"	16	ST	
SA-532	1	13'-1"	14	ST	
SA-533	2	24'-4"	51	ST	
SA-534	2-22-9	~~23'-11"~~	~~56~~	ST	48
SA-535	2	19'-2"	40	BT	
SA-536	1	5'-0"	5	BT	
SA-537	1	5'-0"	5	ST	
SA-538	2	22'-6"	47	BT	
SA-539	-	-	-	-	
SA-540	4	9'-3"	39	ST	
SA-541	94	4'-0"	392	BT	
SA-542	11	4'-0"	46	ST	
SA-543	10	3'-3"	34	ST	
SA-544	25	6'-7"	25	BT	
SA-545	2	18'-4"	38	BT	
SA-546	2	24'-3"	51	BT	
SA-547	2	14'-9"	31	ST	
SA-548	6	19'-8"	104	ST	
SA-549	4	22'-4"	93	ST	
SA-550	11	6'-4½"	74	BT	
SA-551	10	5'-8½"	60	BT	
SA-552	24	3'-7"	88	BT	
SA-553	2	3'-6"	7	BT	
SA-554	2	3'-4½"	7	BT	
SA-555	2	3'-3"	7	BT	
SA-556	2	3'-1"	6	BT	
SA-557	2	2'-10"	6	BT	
SA-558	2	2'-7"	5	BT	
SA-559	2	2'-4"	5	BT	
SA-560	2	2'-0½"	4	BT	
SA-561	2	1'-6"	3	BT	
SA-562	5	1'-5"	7	BT	
SA-601	45	18'-0"	1217	BT	
GRAND TOTAL		~~5324~~ *	5329		

REINFORCING STEEL SCHEDULE (CONT)

MARK No.	NO. REQD	LENGTH	WEIGHT LBS	SHAPE	REMARKS
PIERS					
P-501	27	9'-0"	254	BT	
P-502	3	8'-2"	26	BT	
P-503	30	8'-0"	251	BT	
P-504	30	7'-0"	219	BT	
P-505	30	6'-0"	188	BT	
P-506	78	5'-6"	448	BT	
P-507	78	12'-2"	990	BT	
P-601	12	40'-7"	732	ST	
P-602	174	8'-2"	2133	ST	
P-901	78	43'-10"	11,624	ST	
P-902	30	12'-4"	1251	ST	
P-1001	27	40'-7"	4715	ST	
P-1002	27	37'-3"	4328	ST	
P-1003	54-10	~~6'-3"~~	~~1150~~	BT.	2,440
P-1004	12	9'-6"	491	BT.	
P-1103	48	14'-11"	3806	ST	
P-1104	96	10'-1"	8202	ST	
P-1105	144	7'-6"	5738	BT	
GRAND TOTAL			~~47,540~~		47,836

478 SLAB

478	S-501	~~456~~	2'-5"	~~1178~~	BT	1205
494	S-502	~~456~~	2'-10"	~~1346~~	ST	1412
239	S-503	~~540~~	4'-5"	~~2484~~	BT	2276
239	S-504	~~228~~	6'-2"	~~615~~	BT	582
	S-505	~~228~~	~~2'-3"~~	~~535~~	BT	499
	S-601	93	40'-0"	5588	ST	
	S-602	720	36'-6"	39473	ST.	
	S-603	447	36'-2"	24,282	BT	
	S-604	27	34-7 TO 36-6" INCREMENTS OF 1'-1"	883	BT	
	S-605	35	34-10⅜ TO 37-3" INCREMENTS OF 9¾"	1107	BT	
	S-606	8	5'-5"	65	BT	
	S-607	5	6'-6"	49	BT	
	S-701	447	36'-2"	33,044	ST	
	S-702	27	34-7 TO 36-6" INCREMENTS OF 1'-1"	1,134	ST	
	S-703	35	34-10⅜ TO 37-3" INCREMENTS OF 9¾"	1,307	ST	
	S-704	8	5'-5"	89	ST	
	S-705	5	6'-6"	66	ST	
GRAND TOTAL			~~113,448~~	113,261		

535 RAILING

*R-501	~~382~~	1'-5"		BT	
*R-502	168	14'-10"		ST	
*R-503	8 ~~18~~	~~12'-0"~~	11'-0"	ST	
*R-504	4	~~16'-6"~~	18'-4"	ST	
*R-505	4	17'-8"		ST	
*R-506	4	20'-10"		ST	
*R-507	4	18'-2"		ST	
*R-508	8	13'-0"		ST.	

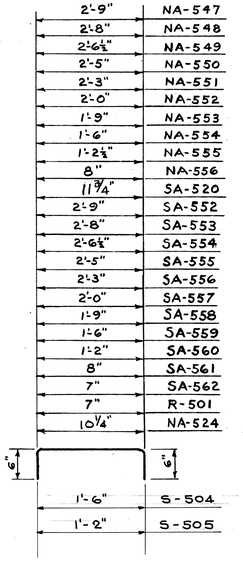
* TO BE INCLUDED IN ITEM S-14 FOR PAYMENT

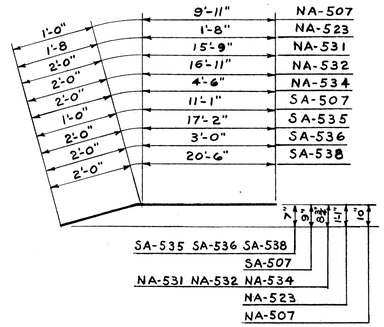
REPLACEMENT STEEL

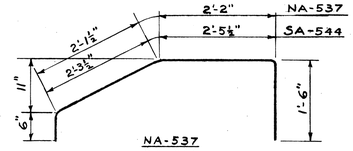
RE-501	1	5'-0"		ST
RE-502	1	5'-3"		BT
RE-601	4	5'-6"		ST
RE-701	2	6'-0"		ST
RE-901	1	7'-0"		ST
RE-1001	1	7'-6"		ST
RE-1101	1	8'-0"		ST

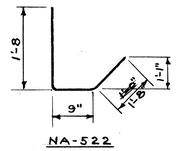
SPIRAL REINFORCING FOR PIERS

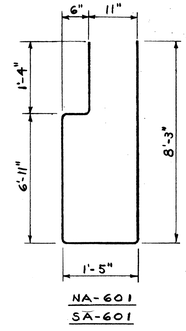
MARK NO.	NO REQD	CORE DIA OF SPIRAL	LENGTH OF SPIRAL	PITCH	NO TURNS	WEIGHT IN LBS
SP-501	3	2'-8"	10'-0⅝"	4"	33	848
SP-502	6	2'-8"	11'-3⅛"	4"	37	1902
SPACER	36	—	—	—	—	266
GRAND TOTAL						3016 #

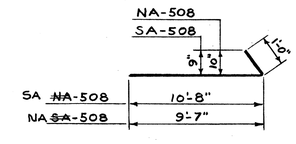


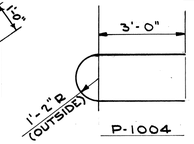


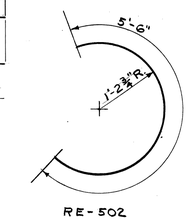


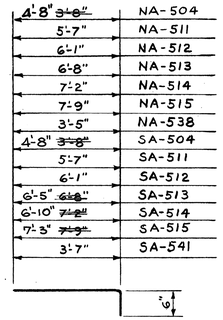


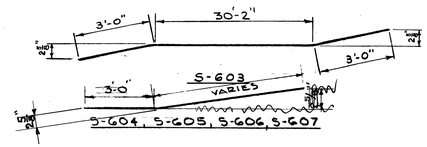


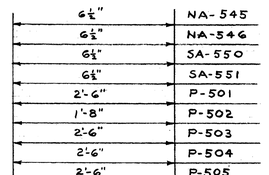


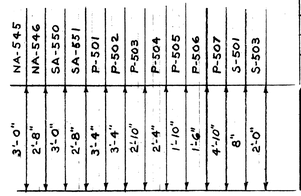


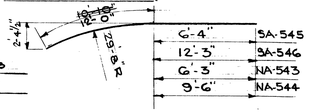


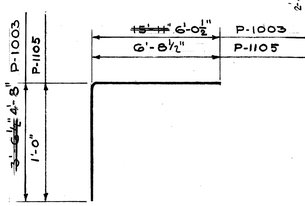












SPIRAL REINFORCING NOTES

FOUR STEEL CHANNEL, TEE OR ANGLE SPACERS, WEIGHING APPROXIMATELY 0.68 LBS. PER. LIN. FT. OF SPACER, SHALL BE PROVIDED FOR EACH SPIRAL UNIT THEY SHALL BE EQUALLY SPACED ALONG THE PERIPHERY OF THE COIL. THE NUMBER OF POUNDS OF THESE SPACE SPACERS BASED ON 0.68 LBS. PER LIN. FT. WILL BE PAID FOR AS REINFORCING STEEL AND IS INCLUDED IN THE TABULATED QUANTITY OF SPIRAL BARS.

THE LENGTH SHOWN IN SCHEDULE FOR SPIRAL BARS IS THE DISTANCE FROM THE TOP OF THE FOOTING TO THE BOTTOM OF PIER CAP.

THE NUMBER OF TURNS SHOWN IN THE SCHEDULE FOR SPIRAL BARS IS THE LENGTH DIVIDED BY THE PITCH PLUS THREE TURNS (TOTAL NO OF CLOSED COILS) EXPRESSED AS THE NEAREST WHOLE NUMBER.

SPIRAL REINFORCING BARS SHALL NOT HAVE DEFORMATIONS BUT SHALL IN OTHER RESPECTS CONFORM TO ITEM S-4 (REINFORCING STEEL)

1½ CLOSED COILS SHALL BE PROVIDED AT THE ENDS OF EACH SPIRAL UNIT.

BAR SIZE IS INDICATED IN THE BAR MARK. THE FIRST DIGIT, WHERE 3 DIGITS ARE USED AND THE FIRST 2 DIGITS WHERE 4 ARE USED, INDICATES THE BAR SIZE NUMBER FOR EXAMPLE: S-701 IS A NUMBER 7 SIZE BAR AND P-1101 IS A NUMBER 11 SIZE BAR.

REPLACEMENT BARS: IF REINFORCING BARS ARE FABRICATED FROM STOCK WHICH HAS PREVIOUSLY BEEN TESTED AND APPROVED BY THE OHIO HIGHWAY TESTING LABORATORY, TEST SAMPLES AS PROVIDED IN SEC. S-4.02 NEED NOT BE FURNISHED AND REPLACEMENT BARS WILL NOT BE REQUIRED.

TOTAL STEEL REQUIRED FOR BRIDGE 174,666 # ~~174,585~~

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

REINFORCING STEEL SCHEDULE

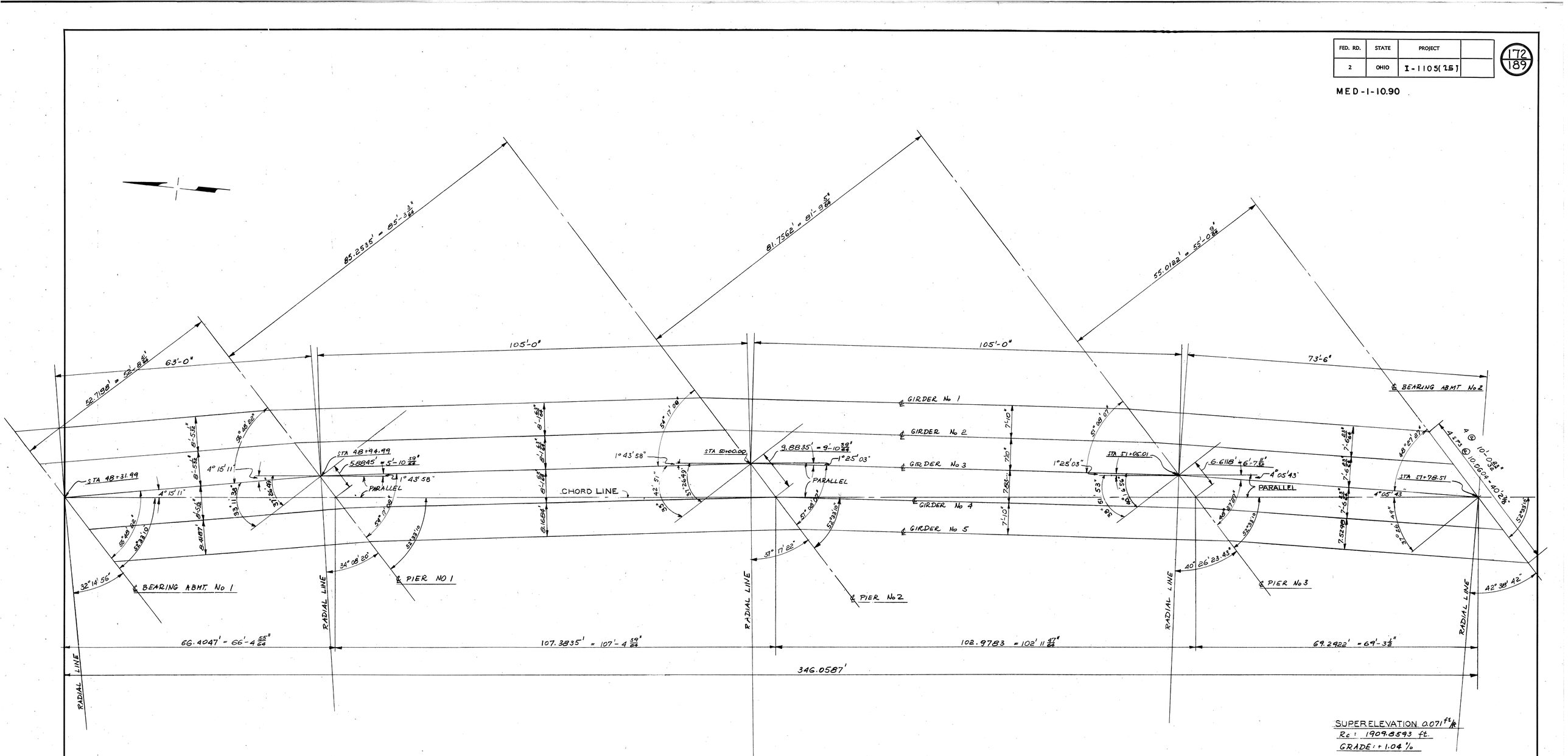
BRIDGE NO. MED-I-1345
UNDER STATE ROUTE NO. 57
MEDINA COUNTY
STA. 803+77.11

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
EAK ~~SH~~			DHC			3.19.58

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

172/189

MED-I-10.90



GEOMETRIC LAYOUT PLAN

SUPERELEVATION 0.071 ft/ft
Rc: 1909.8593 ft.
GRADE: + 1.04 %

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

GEOMETRIC LAYOUT

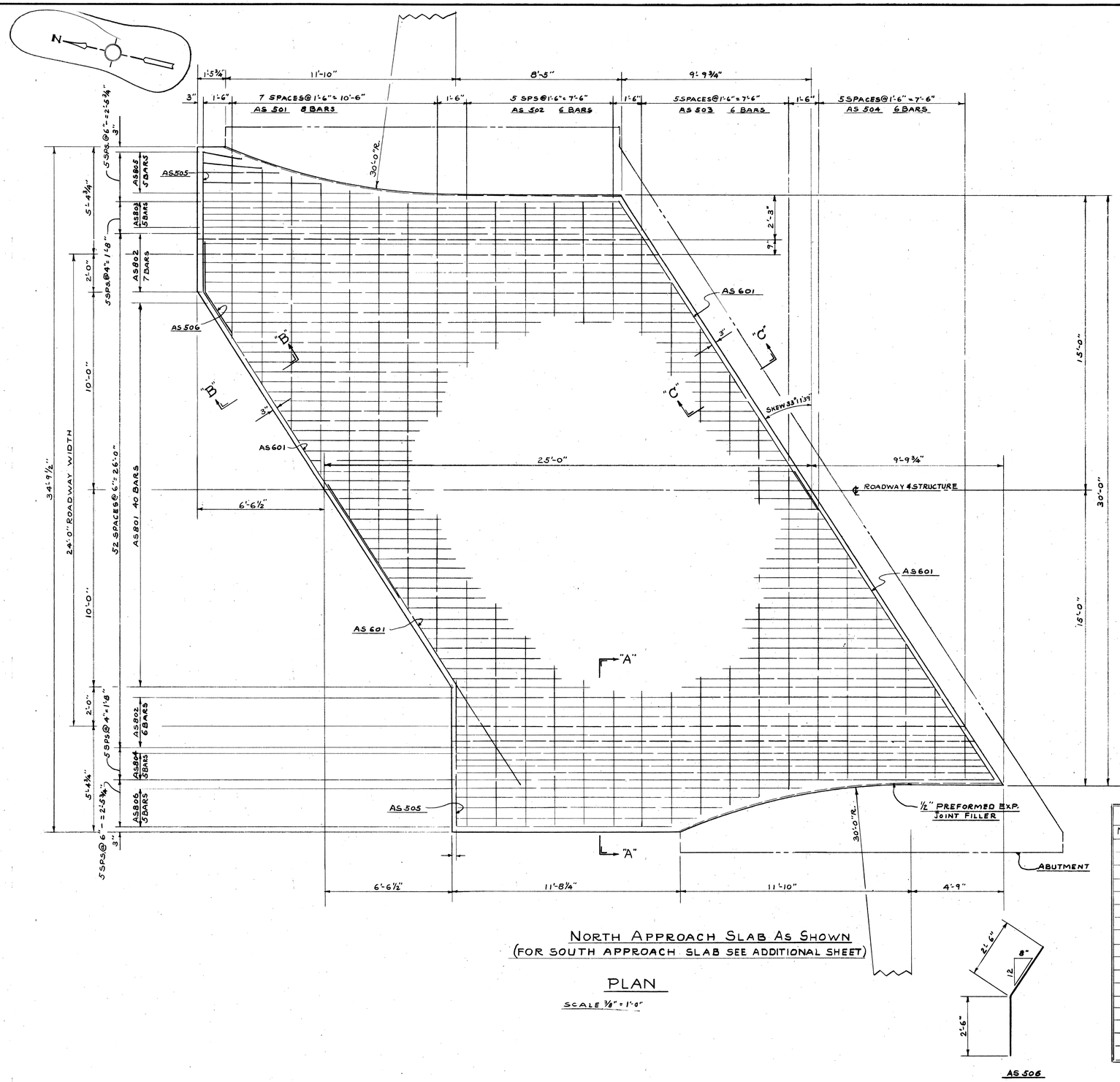
BRIDGE NO. MED-I-1345
UNDER STATE ROUTE NO. 57
MEDINA COUNTY
STA. 803+77.11

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
N. SEAYER	N. SEAYER		DHC			

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

173
189

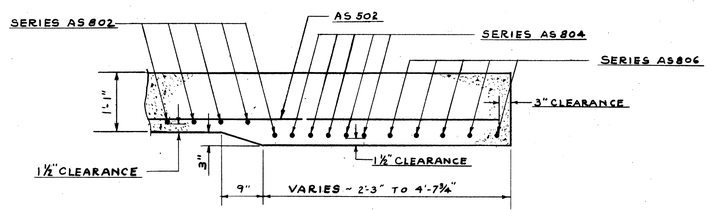
MED-1-10.09



NORTH APPROACH SLAB AS SHOWN
(FOR SOUTH APPROACH SLAB SEE ADDITIONAL SHEET)

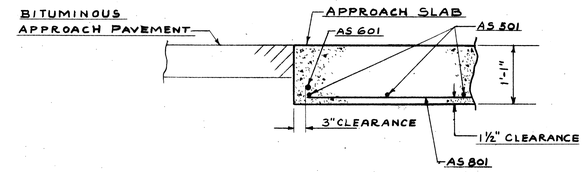
PLAN

SCALE ⅜" = 1'-0"



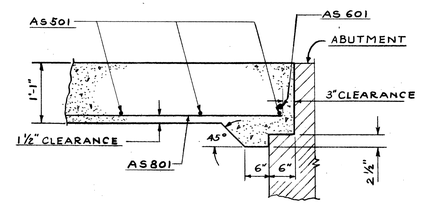
SECTION "A-A"

SCALE ¾" = 1'-0"



SECTION "B-B"

SCALE ¾" = 1'-0"



SECTION "C-C"

SCALE ¾" = 1'-0"

QUANTITY FOR ONE APPROACH SLAB

REINFORCING BAR SCHEDULE

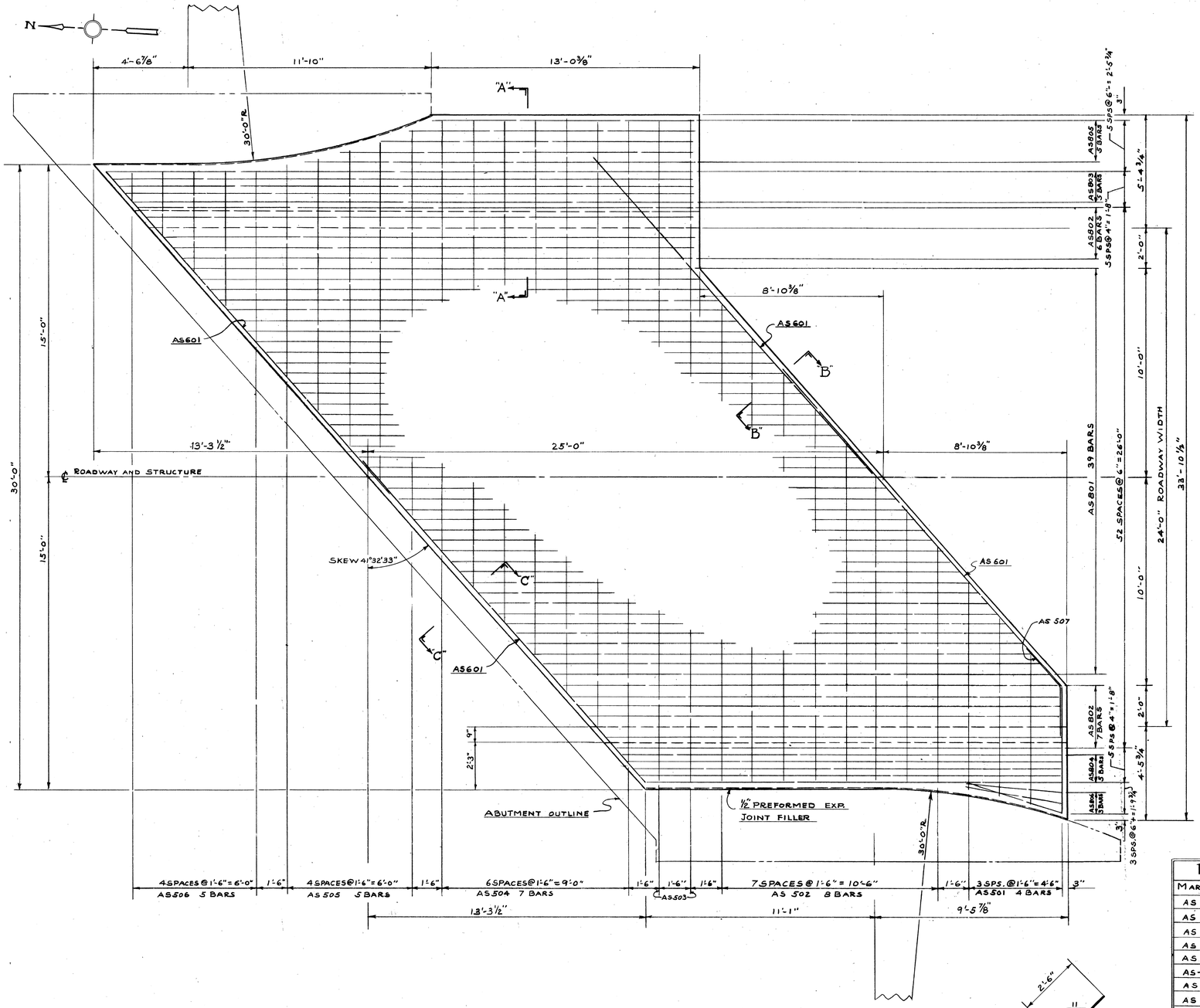
MARK No.	No. REQD.	LENGTH	WEIGHT	SHAPE
AS 501	8	VARIES 9'-0" TO 22'-5" INCREMENTS OF 1'-11"	131	ST.
AS 502	6	31'-10"	200	ST.
AS 503	6	VARIES 16'-4" TO 29'-8" INCREMENTS OF 2'-8"	144	ST.
AS 504	6	VARIES 2'-3" TO 13'-6" INCREMENTS OF 2'-3"	50	ST.
AS 505	2	7'-2"	15	ST.
AS-506	1	5'-0"	5	BENT
AS 601	4	18'-6"	111	ST.
AS 801	40	24'-6"	2616	ST.
AS 802	13	VARIES 22'-7" TO 24'-7" INCREMENTS OF 4"	854	ST.
AS 803	5	VARIES 21'-4" TO 22'-4" INCREMENTS OF 3"	296	ST.
AS 804	5	VARIES 24'-7" TO 27'-7" INCREMENTS OF 3"	360	ST.
AS 805	5	VARIES 3'-8" TO 8'-8" INCREMENTS OF 1'-0"	70	ST.
AS 806	5	VARIES 11'-3" TO 17'-8" INCREMENTS OF 1'-6"	191	ST.
		TOTAL	5043 LBS	

NOTE:-
PREFORMED EXP. JOINT FILLER SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 1-7 REINFORCED CONCRETE APPROACH SLAB

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

174/189

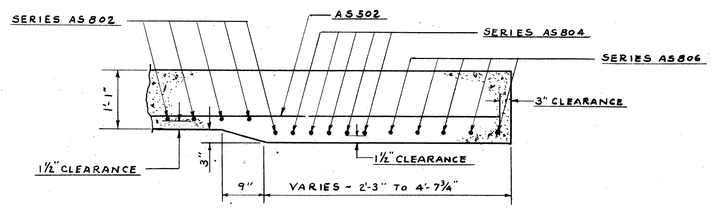
MED-1-10.09



SOUTH APPROACH SLAB AS SHOWN
(FOR NORTH APPROACH SLAB SEE ADDITIONAL SHEET)

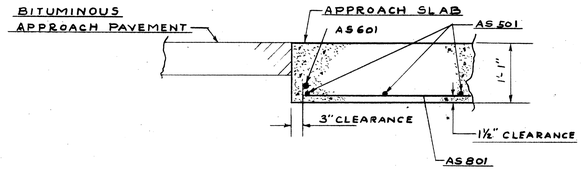
PLAN

SCALE ⅜" = 1'-0"



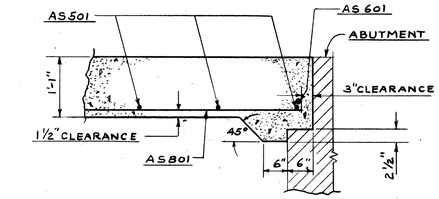
SECTION "A-A"

SCALE ¾" = 1'-0"



SECTION "B-B"

SCALE ¾" = 1'-0"



SECTION "C-C"

SCALE ¾" = 1'-0"

QUANTITY FOR ONE APPROACH SLAB

REINFORCING BAR SCHEDULE

MARK NO.	NO. REQD.	LENGTH	WEIGHT	SHAPE
AS 501	4	VARIES 6'-6" TO 10'-0" INCREMENTS OF 1'-4"	33	ST
AS 502	8	VARIES 11'-2" TO 22'-10" INCREMENTS OF 1'-8"	142	ST
AS 503	2	32'-0"	66	ST
AS 504	7	VARIES 20'-8" TO 30'-8" INCREMENTS OF 1'-8"	185	ST.
AS 505	5	VARIES 10'-2" TO 18'-6" INCREMENTS OF 2'-1"	75	ST
AS-506	5	VARIES 1'-7" TO 8'-3" INCREMENTS OF 1'-8"	26	ST.
AS 507	1	5'-0"	5	BENT
AS 601	4	20'-6"	123	ST.
AS 801	40	24'-6"	2616	ST.
AS 802	13	VARIES 21'-8" TO 24'-8" INCREMENTS OF 8"	838	ST.
AS 803	5	VARIES 27'-2" TO 28'-2" INCREMENTS OF 8"	370	ST.
AS 804	5	VARIES 20'-2" TO 21'-2" INCREMENTS 2'-3"	275	ST.
AS 805	5	VARIES 12'-6" TO 15'-6" INCREMENTS OF 1'-8"	207	ST.
AS 806	3	4'-8"	37	ST.
		TOTAL	4998 LBS.	

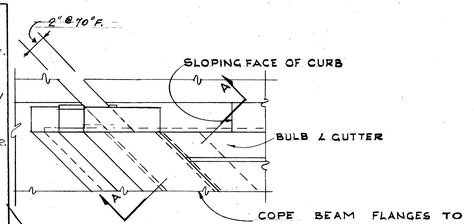
NOTE:-
PREFORMED EXP. JOINT FILLER SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 1-7 REINFORCED CONCRETE APPROACH SLAB

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105 (29)	

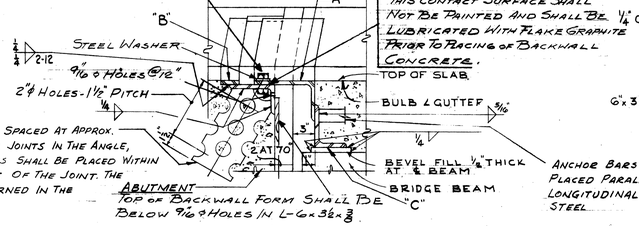
175/189

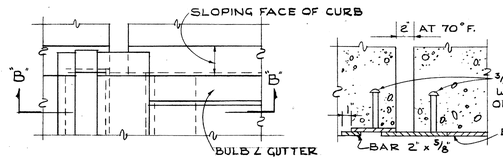
MED-1-10.09

5/8" x 2" Bolts At Not More Than 2'-0" c/c With Nuts Tack Welded To Under Side of Lower Angle. 1 1/16 ϕ Holes In Upper Angle. Center 5/8" Bolts In 1 1/16 ϕ Holes. Apply Flake Graphite Between Washers And Angle. Turn Bolt Tight And Release One-Half Turn. Remove Bolts As Soon As Concr. Has Set, Preferably Within Two Hours After Placing, To Avoid Damage Due To Temperature Expansion Or Contraction of Superstructure - Fill Holes With Bituminous Material.

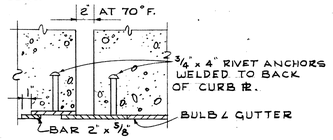


PART PLAN
(FOR SKEWED BRIDGES)

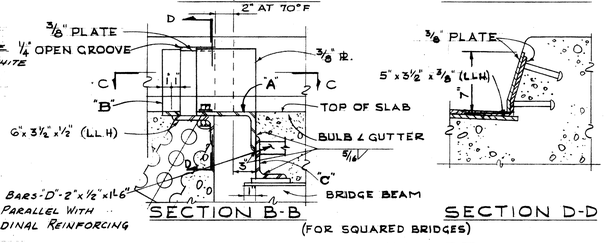




PART PLAN



SECTION C-C



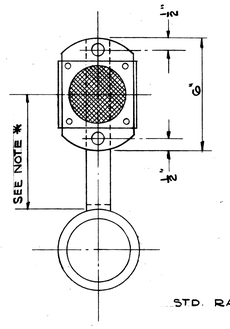
SECTION B-B

SECTION D-D
(FOR SQUARED BRIDGES)

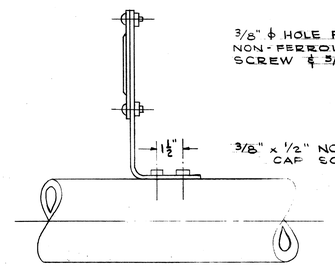
EXPANSION JT. DETAILS

NOTE *:
LENGTH OF STEEL SUPPORT SHALL BE SUCH THAT THE CENTER OF THE DELINEATOR WILL BE 45" ABOVE THE ELEVATION OF A POINT IN THE BRIDGE DECK LOCATED 12" FROM THE FACE OF THE PARAPET

1/4" x 1 1/4" STAINLESS STEEL SUPPORT



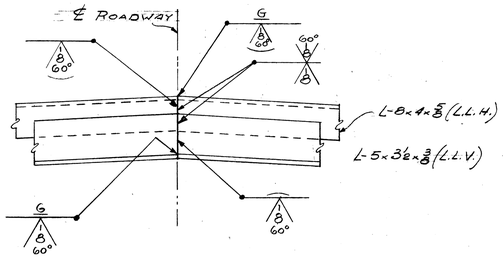
STD. RAILING



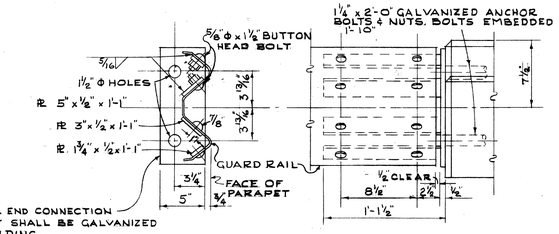
DELINEATOR AND BRIDGE RAIL BRACKET DETAIL

A Welded Butt Joint In The End Finish Along The Centerline of Roadway Will Be Required For That Portion of The End Finish Attached To The Superstructure. The Portion Attached To The Backwall Shall Be Placed In Segments Not Less Than 6'-0" In Length With One of The Joints At The Apex of The Crown. These Shall Be Closely Butted But Shall Not Be Welded.
Omit Shop Coat On All Potions of End Finish. Portions In Contact With Steel Or With Concrete Shall Not Be Painted. All Other Portions Shall Be Cleaned And Given The Shop Coat In The Field As Well As The Two Field Coats.

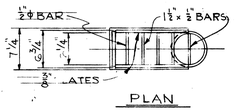
SECTION A-A



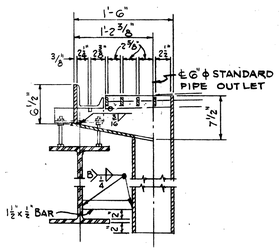
WELDED BUTT JOINT IN SUPERSTRUCTURE END FINISH ANGLES AT ℄ OF ROADWAY



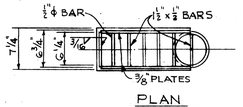
GUARD RAIL DETAIL
(AS SEEN FROM PAVEMENT SIDE)
INCLUDE WITH ITEM S-14 (RAILING) FOR PAYMENT



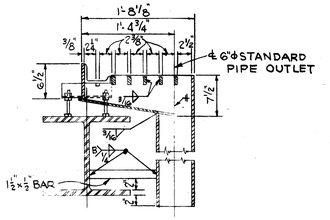
PLAN



FOR MONOLITHIC WEARING SURFACE AND BEAM FLANGES OVER 12 1/8" ℄ UNDER



PLAN



FOR MONOLITHIC WEARING SURFACE AND BEAM FLANGES OVER 12 1/8"

	MED.-1-1091	MED.-1-1220	MED.-1-1330	MED.-1-1354
ANGLE "A"	8" x 4" x 5/8"	8" x 4" x 3/4"	8" x 4" x 3/4"	8" x 4" x 7/8"
PLATE "B"	2" x 5/8"	2" x 3/4"	2" x 3/4"	2" x 7/8"
ANGLE "C"	5" x 3 1/2" x 3/8"	5" x 3 1/2" x 1/2"	5" x 3 1/2" x 1/2"	6" x 4" x 5/8"
SPACING OF ANCHOR BARS "D"	18" c/c	18" c/c	18" c/c	15" c/c

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER & HOCH, Consulting Engineers
AKRON, OHIO

TYPICAL DETAILS FOR BRIDGES

11

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
DHC	SEM		DHC			3.19.58

CENTERLINE PLAT
DEPARTMENT OF HIGHWAYS

MEDINA - 1 - 10.02 - 13.64
GUILFORD TWP.
MONTVILLE TWP.
MEDINA CO.

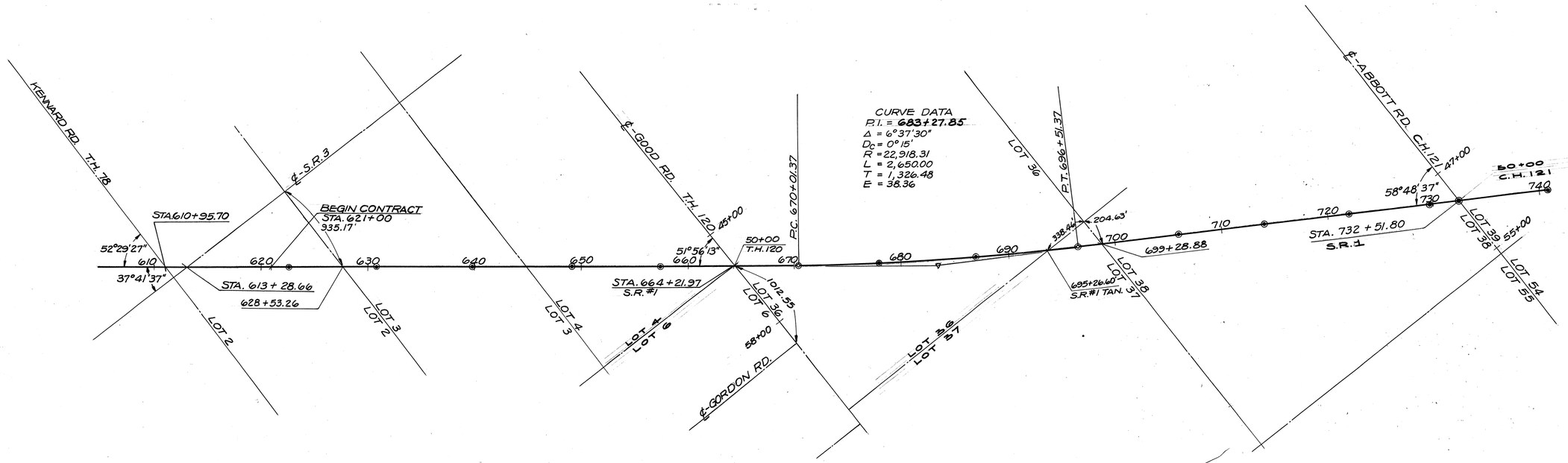
STATE ROUTE #1

SHEET 1 OF 2
R/W SHEET 1 OF 14

Received _____ at _____
Recorded _____
Plat Book _____ Page _____
Signed _____ Recorded Medina County, Ohio
Fee _____

Signed _____
Interstate Projects Right-of-Way Engineer

Location and Limited Access approved and journalized by Director of Highways - June 29, 1957, Vol. 42, Page 477, Journal of the Director of Highways.

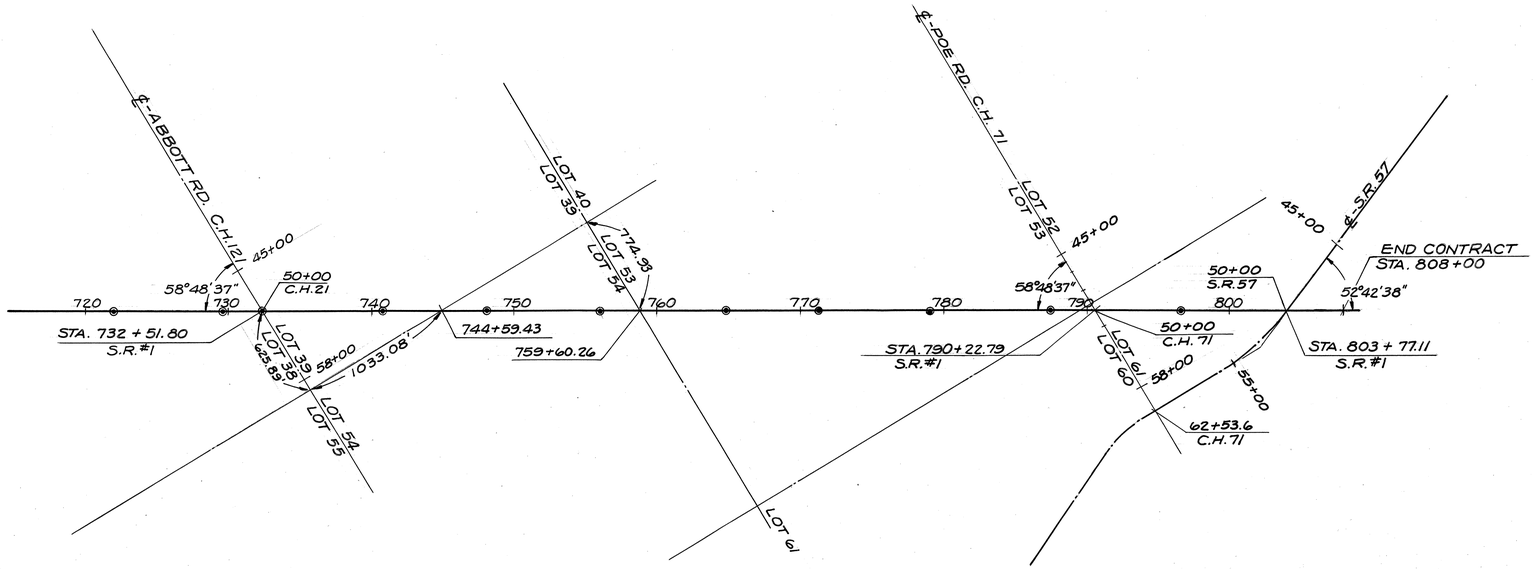


℄ TIES

STATION	DESCRIPTION
622 + 57.54	P.O.T.
630 + 77.38	P.O.T.
639 + 82.60	P.O.T.
649 + 13.47	P.O.T.
657 + 36.31	P.O.T.
670 + 01.37	P.C.
678 + 00	P.O.C.
687 + 00	P.O.C.
696 + 51.37	P.T.
705 + 95.73	P.O.T.
714 + 00	P.O.T.
722 + 00	P.O.T.
729 + 57.40	P.O.T.
732 + 51.56	P.O.T.
740 + 78.25	P.O.T.
748 + 00	P.O.T.
756 + 00	P.O.T.
764 + 78.07	P.O.T.
771 + 26.58	P.O.T.
779 + 00	P.O.T.
787 + 41.23	P.O.T.
796 + 56.25	P.O.T.

GRAPHIC SCALE
0 500 1000 2000 FT.

CENTERLINE PLAT
DEPARTMENT OF HIGHWAYS



GRAPHIC SCALE
0 500 1000 2000 FT.

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

178
189

SUMMARY OF R/W REQUIRED

R/W SHEET Nº 3 OF 14

ROUTE S.R.-1 SECTION-10.09 COUNTY-MEDINA

TOTAL NUMBER OF OWNERS 26

Parcel No.	Owner	Area (acres)	Existing Bldgs.	Sheet No.	Remarks
74-1LA	DAVID TREFNEY	3.31	YES	4 OF 14	SEE ADDITIONAL NOTES
74-2LA	RUTH. I. FORMANEK	6.35		4 OF 14	
74-3LA	DERLE.D. & BERYL KOEHLER	8.02		4 & 5 OF 14	
74-3X	DERLE. D. & BERYL KOEHLER	0.06		5 OF 14	
74-4LA	DEWEY.M. & ANNA.M. CUPPS	12.30		5 OF 14	
74-4A	DEWEY. M. & ANNA. M. CUPPS	0.57		11 OF 14	
74-4X	DEWEY. M. & ANNA. M. CUPPS	0.11		5 OF 14	
74-4Y	DEWEY. M. & ANNA. M. CUPPS	0.04		5 OF 14	
74-4Z	DEWEY. M. & ANNA. M. CUPPS	0.14		5 OF 14	
74-4Z-1	DEWEY. M. & ANNA. M. CUPPS	0.49		5 OF 14	
74-5LA	PAUL JOHNSTON	0.23		5 OF 14	
74-5A	PAUL JOHNSTON	0.41		11 OF 14	
74-6LA	EDWARD JOHNSTON	13.36		5 & 6 OF 14	
74-6A	EDWARD JOHNSTON	0.62		11 OF 14	
74-6WA	EDWARD JOHNSTON	0.07		11 OF 14	
74-6B	EDWARD JOHNSTON	0.58		11 OF 14	
74-6X	EDWARD JOHNSTON	0.05		11 OF 14	
74-7LA	DEWEY.M. & ANNA.M. CUPPS	8.65		6 OF 14	
74-8LA	JOHN SALADNA, JR.	2.89		6 OF 14	
74-9LA	RALPH.S. & IOLA M. VAN ZILE	7.67		6 & 7 OF 14	
74-10LA	CLARENCE L. FRALEY	11.03		7 OF 14	
74-11T-1	CLARENCE L. FRALEY	0.92		12 OF 14	
74-11B	CLARENCE L. FRALEY	0.05		12 OF 14	
74-11LA	ROBERT. D. & BETTY. D. HUNTER	5.49	YES	7 OF 14	SEE ADDITIONAL NOTES
74-11A	ROBERT. D. & BETTY. D. HUNTER	0.15		12 OF 14	
74-11C	ROBERT. D. & BETTY. D. HUNTER	0.18		12 OF 14	
74-11D	JOHN. R. & BERTHA. S. ROWE	0.08		12 OF 14	
74-11T-3	JOHN. R. & BERTHA. S. ROWE	0.61		12 OF 14	
74-11T	ROBERT. D. & BETTY. D. HUNTER	0.15		12 OF 14	
74-11T-2	ROBERT. D. & BETTY. D. HUNTER	0.29		12 OF 14	
74-12 LA	W.F. HUNTER	8.52	YES	7 & 8 OF 14	SEE ADDITIONAL NOTES
74-12 B	W.F. HUNTER	0.11		12 OF 14	
74-12C	W.F. HUNTER	0.28		12 OF 14	
74-12A	A.W. & M.G. McMILLEN	0.20		12 OF 14	
74-12WA	A.W. & M.G. McMILLEN	0.01		12 OF 14	
74-13LA	A.J. & NELLIE.E. NICHOLS	10.57		8 OF 14	
74-13X	A.J. & NELLIE.E. NICHOLS	0.11		8 OF 14	
74-14LA	RAY SELZER ET. AL.	15.56		8 & 9 OF 14	
74-14X	RAY SELZER ET AL	0.08		8 OF 14	
72-16A	VAUGHN H WELLS	0.03		13 OF 14	
72-20A	JAMES J. & BEATRICE WELLS	0.07		13 OF 14	
72-20B	LESTER G. & ALICE L. BROWN	0.06		13 OF 14	
72-21B	MYRLE & W. F. McFADDEN	0.16		13 OF 14	
72-21C	MYRLE & W. F. McFADDEN	0.17		13 OF 14	
74-15LA	DONALD.D. & BEULAH.M. SCOTT	0.60		9 OF 14	
74-16LA	VAUGHN.H. WELLS	5.56		9 OF 14	
74-17LA	JOHN.W. SELZER	0.03		9 OF 14	
74-18LA	KENNETH & LUCY BROWN	1.81	YES	9 OF 14	SEE ADDITIONAL NOTES
74-19LA	L.E. & R.H. HADLOCK	0.53	YES	9 OF 14	SEE ADDITIONAL NOTES
74-20LA	JAMES.J. & BEATRICE WELLS	0.01		9 OF 14	
74-21LA	MYRLE & W.F. McFADDEN	9.84		9 & 10 OF 14	
74-21A	MYRLE & W.F. McFADDEN	0.56		14 OF 14	
74-22LA	PETER & BARBARA GROSSER	1.10		10 OF 14	
74-22A	PETER & BARBARA GROSSER	0.23		14 OF 14	
74-22T	PETER & BARBARA GROSSER	0.75		14 OF 14	
74-22T2	PETER & BARBARA GROSSER	0.03		14 OF 14	
74-22X	PETER & BARBARA GROSSER	0.69		10 OF 14	
74-22B	MEDINA BOARD OF EDUCATION	0.09		14 OF 14	
74-22T1	MEDINA BOARD OF EDUCATION	0.47		14 OF 14	
74-23LA	GEORGE. W. PORTER ET. AL.	1.34		10 OF 14	
74-23A	GEORGE W. PORTER ET AL	0.68		14 OF 14	
74-23T	GEORGE W. PORTER ET. AL.	0.90		14 OF 14	
74-23X	GEORGE W. PORTER ET. AL.	0.17		10 OF 14	
74-24LA	JAMES BROWN	0.15		10 OF 14	
74-24A	JAMES BROWN	0.73	1-SHED	14 OF 14	
74-24X	JAMES BROWN	0.22		10 OF 14	

ADDITIONAL NOTES:

74-1LA 2-BROODER HOUSES

74-11LA 1-2 STORY FRAME HOUSE
1-GARAGE
1-BANK BARN
1-SHED

74-12LA 1-BANK BARN
1-SHED
2-BROODER HOUSES
1-SILO
1-4-CAR GARAGE
1-2-STORY FRAME HOUSE

74-18LA 1-2-STORY FRAME HOUSE
1-2-CAR FRAME GARAGE
2-SHEDS

74-19LA 1-1½ STORY FRAME HOUSE
1-SHED
1-4'X4' WELL
1-SEPTIC TANK

74-20LA 1-2 CAR FRAME GARAGE

J.D.P.


FED. RD. | STATE | PROJECT
2 | OHIO | I-1105 (25)
179/189
MED-1-10.09
BARN
SHED
PROPOSED R/W LINE
R/W FENCE
BROODER HOUSES
HAY FIELD
PASTURE
CORN FIELD
WHEAT FIELD (TILED)
DAVID TREFNEY
74 1LA
3.31 ACRES
BEGIN CONTRACT C.74 STA. 621+00
621+00 160'
624+38.44 160'
TILE
51°-42'
2' (TYP)
MATCH LINE STA. 632+00
618 619 620 622 623 624 625 626 627 628 629 630 631
N-37°-32'-57"-E
625+64.8
RUTH I. FORMANEK
74 2LA
6.35 ACRES
LOT No 2
16' CATTLE LANE
HAY FIELD (NO TILE)
WHEAT FIELD
TRACTOR LANE
PASTURE
DRAIN
HEDGE
HAY
626+83.26 150'
621+00 150'
632+00 160'
632+00 150'
R/W FENCE
WHEAT FIELD
PROPOSED R/W LINE
MEDINA COUNTY
GUILFORD TWP.
LOT No 3
2-14" W. CHERRY
1-18" W. CHERRY
2-16" ELM
LOT No 4
632+00 160'
633+31.07 160'
2' (TYP)
PROPOSED R/W LINE
R/W FENCE
WHEAT FIELD (TILED)
HAY FIELD
CORN FIELD
20' CATTLE LANE
PASTURE
644+41.4 160'
645+00 160'
74 4LA
12.90 ACRES
DERLE D. & BERYL KOEHLER
74 3LA
8.02 ACRES
74 2LA
51°-43'
633 634 635 636 637 638 639 640 641 642 643 644
634+37.2
N-37°-32'-57"-E
MATCH LINE STA. 632+00
END SHEET STA. 645+00
WHEAT FIELD (TILED)
R/W FENCE
CORN FIELD
HAY FIELD
PASTURE
PROPOSED R/W LINE
632+00 150'
633+75.48 150'
640+00 150'
643+00 160'
645+00 160'
MEDINA COUNTY
GUILFORD TWP.
LOT No 3 SEC. 26
74-1LA ...... 2 - BROODER-HOUSES
4800 L.F. TYPE "A" FENCE
SCALE 1" = 50'

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

180
189

MED-1-10.09

2-14" WILD CHERRY 5-12" HICKORY 3-36" STUMP 1-14" WILLOW
2-14" DEAD TREE 2-24" WALNUT 1-14" STUMP 1-24" STUMP
2-12" DEAD TREE 4-12" HICKORY 2-12" DEAD TREES
1-24" DEAD TREE 2-12" STUMP
1-12" WILD CHERRY
1-18" HICKORY
1-18" STUMP & FALLEN TREE

4-12" STUMP 2-18" STUMP
1-12" ELM 2-24" STUMP
2-12" HICKORY 2-16" STUMP
1-14" STUMP
2-12" STUMP
1-36" STUMP
1-30" STUMP
1-12" HICKORY

647+50 210' 645+75 210' 647+50 160' 645+75 160'
74 4X 0.11 ACRE
650+00 160'
WHEAT FIELD
PROPOSED R/W LINE
R/W FENCE
HAY FIELD WHEAT FIELD PASTURE
WOODS
655+00 150' 2'(TYP)
657+00 210' 657+00 150'
74 4Z 0.15 ACRE
STREAM
658+00 150'
WOODS
660+00 150'
DEWEY M. & ANNA M. CUPPS
74 4LA
12.90 ACRES
128°-10' R
645+67.2
646 647 648 649 650 651 652 653 654 655 656 657 658 659
N-37°-32'-57"-E
BEGIN SHEET STA. 645+00
DERLE D. & BERYL KOEHLER
74 3LA
8.02 ACRES
PASTURE
SWALE
PASTURE
MODERATE WOODS & PASTURE
STREAM
MATCH LINE STA. 660+00
WOODS
R/W FENCE
PROPOSED R/W LINE
644+00 160'
74 3X 0.06 ACRES
646+93 160'
647+45 218'
647+82 160'
74 4Y 0.04 ACRES
MEDINA COUNTY
GUILFORD TWP.
LOT Nº 4 SEC. 26
656+87 160'
658+00 160'
0.49 ACRES
655+80 160'

1-28" OAK
1-12" DEAD TREE
1-18" DEAD TREE
4-12" HICKORY
1-24" BEECH
2-16" HICKORY
1-14" MAPLE
1-18" MAPLE
1-16" ELM
2-20" HICKORY
1-12" WILD CHERRY
2-18" DEAD TREE 4-14" ELM 5-18" BEECH 2-12" HICKORY 4-18" BEECH STUMP
2-16" WILLOW 3-16" HICKORY 3-16" HICKORY 1-30" STUMP 1-12" ELM
1-12" MAPLE 2-12" HICKORY 1-12" STUMP
1-14" WILLOW 1-24" STUMP

1-14" STUMP 1-40" STUMP
1-30" STUMP 1-24" STUMP
5-24" STUMPS 1-14" STUMP
1-36" STUMP
1-20" STUMP
1-20" ELM
1-16" ELM

2-12"-18" MAPLES
2-12"-18" ELMS

CURVE DATA
Δ = 6°-37'-30"
D_c = 0°-15'
R_c = 22,918.31
L_c = 2,650.00
T = 1,326.48
E = 38.36

74 4Z-1
635+83.00 435' 635+29.00 435'
670+01.37
P.C. STA. 670+01.37
HAY FIELD
660+00 150'
WOODS
C.L. STA. 660+00
MATCH LINE
663+80.72 S.R.1 150'
C.H.=120
663+12.48 S.R.1 150'
C.H.=120
662+55.46 S.R.1 60' C.H.=120
662+44.32 S.R.1 150'
C.H.=120
662+33.18 S.R.1 150'
C.H.=120
EXISTING R/W LINE
C.L. = 120
HAY FIELD
PROPOSED R/W LINE
R/W FENCE
CORN FIELD
SWALE
670+01.37 F 150'
615+00 150'
675+00 150'
F
EDWARD JOHNSTON
74 6LA
13.36 ACRES
661 662 663 664 665 666 667 668 669 670 671 672 673 674
N-37°-32'-57"-E
STA. 664+21.97
663+12.5 150'
MEADOW
R/W FENCE
HAY FIELD
670+01.37 F 158'
POND
HEAVY WOODS
END SHEET STA. 675+00
663+29.52 S.R.1 150'
C.H.=120
661+90.52 C.H.=120
MONTVILLE TWP.
GUILFORD TWP.
660+00 150'
WOODS
PAUL JOHNSTON
74 5-LA
9.23 ACRES
PROPOSED R/W LINE
MEDINA COUNTY
MONTVILLE TWP.
LOT Nº 36
675 L.F. TYPE "A" FENCE
F = FENCE
SCALE 1" = 50'
MEDINA COUNTY
GUILFORD TWP.
LOT Nº 6 SEC. 27

1-12" STUMP 5-12" STUMPS 1-18" STUMP 1-18" APPLE
4-24" STUMPS 2-24" STUMPS 6-12" ELMS 4-10" ELMS
1-12" WALNUT 1-30" HICKORY
1-12" HICKORY

4-12"-18" MAPLES 2-12"-18" HICKORY
3-18"-24" MAPLES 1-12"-18" WITCH HAZEL
18-3 YEAR OLD PINES 4-12"-18" BEECH
& 4 OTHER HD. WD. PLANT 2-12"-18" MAPLES

RIGHT OF WAY STA. 645+00 TO 675+00

COMPLETED 10/3/57

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

181
189

MED-I-10.09

2-12"-18" MAPLES
2-12"-18" ELM

1-36"-42" ELM

1-36"-42" ELM
6-12"-18" ELM
2-18"-24" HICKORY
2-18"-24" MAPLE
2-12"-18" MAPLE
3-18"-24" BEECH

10-12"-18" ELM
3-12"-18" BEECH
1-18"-24" BEECH

5-18"-24" MAPLE
6-18"-24" BEECH
4-18"-24" HICKORY

8-12"-14" HICKORY
17-18"-24" BEECH
2-18"-24" MAPLE

5-18"-24" BEECH
3-12"-18" HICKORY
2-18"-24" HICKORY

6-12"-18" BEECH
3-12"-18" ELM
6-12"-18" MAPLE

3-18"-24" ELM
3-12"-18" ELM
2-12"-18" HICKORY
3-24"-30" BEECH

3-12"-18" ELM
1-12"-18" OAK

1-12"-18" MAPLE
1-12"-18" BEECH

4-18"-24" ELMS
3-12"-18" BEECH
1-12"-18" HICKORY

3-18"-24" BEECH
5-12"-18" BEECH

5-18"-24" BEECH
2-18"-24" ELMS
4-12"-18" ELMS

2-12"-18" HICKORY
4-12"-18" BEECH
2-18"-24" ELMS

675+00 150'
F 675+00 142'
675+00 160'
690+00 160'
690+00 152' F
687+00 160'
687+00 158' F

PROPOSED R/W LINE
R/W FENCE
EDWARD JOHNSTON
74
6LA
13.36 ACRES
LOGGING TRAIL
HEAVY WOODS
STREAM
F 682+42.53 148'
682+42.53 150'
36°-35'
DEWEY M. & ANNA M. CUPPS
74
7LA
8.65 ACRES
LIGHT WOODS
676 677 678 679 680 681 682 683 684 685 686 687 688 689
685+41.5
N 37° 32' 57" E
N 30° 55' 27" E
BEGIN SHEET STA. 675+00
MATCH LINE STA. 690+00
677+00 F 158'
LOGGING TRAIL
HEAVY WOODS
MODERATE WOODS
684+47.07 160'
R/W FENCE
675+00 160'
PROPOSED R/W LINE
685+00 158' F
690+00 160'

MEDINA COUNTY
MONTVILLE TWP.
LOT No 36

LOT No 36

CURVE DATA
Δ = 6°-37'-30"
Dc = 0°-15'
Rc = 22,918.31
Lc = 2,650.00
T = 1,326.48
E = 38.36

2-12"-18" HICKORY
1-12"-18" WITCH HAZEL
3-12"-18" MAPLES

4-12"-18" BEECH
2-18"-24" BEECH
4-12"-18" ELMS

3-12"-18" BEECH
1-12"-18 BUTTERNUT

5-12"-18" BEECH
15-12"-18" ELMS
4-18"-24" MAPLES
2-12"-18" HICKORY
7-18"-24 BEECH

20-12"-18" BEECH
7-12"-18" ELMS

9-12"-18" BEECH
1-18"-24" BEECH
7-12"-18 ELMS

8-12"-18" BEECH
1-12"-18 HICKORY
2-12"-18 ELMS
1-12" MAPLE
1-18"-24" MAPLE

2-12"-18" ELMS
4-12"-18" BEECH
1-18"-24 BEECH

18-12"-18" ELMS

4-12"-18 MAPLES
6-12"-18 BEECH
2-18"-24 BEECH

9-12"-18" BEECH
1-18"-24" BEECH

2-12"-18 BEECH
2-18"-24 BEECH
1-12"-18 SYCAMORE
3-12"-18 ELMS

4-18"-24 BEECH
2-3" GRAPE
2-12"-18 ELMS

10-12"-18" ELMS
1-18"-24" ELM
3-12"-18 MAPLES
4-12"-18 BEECH

3-12"-18" ELMS
1-12" BEECH

2-12"-18 MAPLES
5-12"-18 ELMS
7-12"-18 BEECH

8-12"-18" ELMS
10-12"-18" BEECH

1-12" TULIP
3-18"-24" BEECH
6-12"-18 BEECH

5-12"-18" BEECH
1-12" APPLE

1-18"-18" APPLE
1-12" BEECH
2-18"-29" ELMS

2-12" ELMS

6-12"-18 BEECH

1-18" HICKORY
1-18 MAPLE

1-12" TULIP
12-12"-18" LOCUST

3-12"-18 MAPLES
11-12"-18 ELMS
2-18"-25" ELMS

1-36"-42" TULIP
7-12"-18 ELMS

2-18"-29" ELMS
4-12"-18 MAPLES
1-18" BEECH

7-12"-18" BEECH
3-18"-29" BEECH

1-12"-18" ELM

5-12"-18" ELMS
1-12" 29" ELM
1-18" W. CHERRY

690+00 160'
F 690+00 152'
PROPOSED R/W LINE
R/W FENCE
HEAVY WOODS
MEADOW
74
7LA
P.T. STA 696+51.67
698+13.37 178.59'
697+53.32 150'
698+30.78 150'
MEADOW & LIGHT WOODS
2' TYP.
WOODS
SCRUB
705+00 150'
705+00 148' F
RALPH S. & IOLA M. VAN ZILE
74
9LA
7.67 ACRES
MATCH LINE STA. 690+00
END SHEET STA. 705+00
691 692 693 694 695 696 697 698 699 700 701 702 703 704
695+27.2
31°-58'
58°-40'
699+22.1
N 30° 55' 27" E
JOHN SALARNA JR.
74
8LA
2.83 ACRES
LOT No 38
HEAVY WOODS
POND
WOODS
F 698+70.81 158'
698+70.81 160'
696+51.67 F 158'
WOODS
R/W FENCE
630+00 160'
PROPOSED R/W LINE
700+19.51 160'
705+00 160'

MEDINA COUNTY
MONTVILLE TWP.
LOT No 37

CURVE DATA
Δ = 6°-37'-30"
Dc = 0°-15'
Rc = 22,918.31
Lc = 2,650.00
T = 1,326.48
E = 38.36

6037 L.F. TYPE "A" FENCE
F. FENCE
SCALE: 1"=50'

4-18"-24" BEECH
1-12" BUTTERNUT

4-12"-18" BEECH
2-12"-18 ELMS

3-18"-29" BEECH
1-12" ELM
1-12" MAPLE

30-12"-18" BEECH
4-12"-18 ELMS
2-12"-18 W. CHERRY

1-12" BEECH
1-12" ELM

14-12"-18" ELMS
2-12"-18 HICKORY
3-12"-18 BEECH
1-12" W. CHERRY

15-12"-18" ELMS
1-12" HICKORY
2-12"-18 MAPLES
1-12" BEECH

10-12"-18" ELMS
5-12"-18 MAPLES
1-12" BEECH
4-12"-18 HICKORY

2-12"-18" ELMS
5-12"-18 MAPLES
4-12"-18 HICKORY

2-12"-18" TULIP
7-12"-18 ELMS
2-12"-18 BEECH

4-12"-18" BEECH
1-12" MAPLE
1-18" ELM

3-12"-18" BEECH
2-12"-18 ELMS
1-18 MAPLE

3-18"-29" BEECH
7-12"-18 BEECH
1-18" ELM

4-12"-18" ELMS
1-12" MAPLE
1-18" MAPLE
4-12"-18 BEECH

1-12" HICKORY
1-12 BUTTERNUT
1-12" ELM
10-12"-18" BEECH

RIGHT OF WAY STA. 675+00 TO STA. 705+00

COMPLETED 10/3/57

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

182/189

MED-I-10.09

MEDINA COUNTY
MONTVILLE TWP.
LOT No. 38

3-12"-18" ELMS

WHEAT

705+00 150

709+00 150

718+57.17 150

2'(TYP)

PROPOSED R/W LINE

R/W FENCE

CORN FIELD (TILE: LOCATION UNKNOWN)

WHEAT FIELD

CORN FIELD

WHEAT FIELD

RALPH S. & IOLA M. VAN ZILE

74 / 9LA

7.67 ACRES

BEGIN SHEET STA. 705+00

706 707 708 709 710 711 712 713 714 715 716 717 718 719

31°-15'

709+93.5

N-30°-55'-27"-E

CLARENCE L. FRALEY

74 / 10LA

11.03 ACRES

CATTLE LANE

17'

MATCH LINE STA. 720+00

PASTURE

WHEAT FIELD (TILE: LOCATION UNKNOWN)

HAY FIELD

CORN FIELD

R/W FENCE

2'(TYP)

PROPOSED R/W LINE

705+00 140'

707+23.83 120'

720+00 160'

	6-12"-18" ELM		10-14" POPLAR
	2-12"-18" HICKORY		1-30" ELM
7-18"-25" BEECH	3-16"-18" BEECH		6-14" HICKORY
8-12"-18" BEECH	16-12"-18" MAPLE	5-12"-18" ELM	1-16" BEECH

MEDINA COUNTY
MONTVILLE TWP.
LOT No. 39

720+00 160

R/W FENCE

2'(TYP)

PROPOSED R/W LINE

727+82.34 120'

47°-30' CH. 121 STA.

47°-42'-30" (L.C.) CH. 121 STA.

47°-57'-30" (L.C.) CH. 121 STA.

47+90 STATIONING

72+15.8 (L.C.) 20°-12'-30" (C.H.) 121

40°-15' CH. 121 STA.

732+00 160

WHEAT FIELD

CORN FIELD

ROBT. D. & BETTY DALE HUNTER

74 / 11LA

5.49 ACRES

EXISTING R/W LINE

EXISTING R/W LINE

C.L. #121

W. F. HUNTER

74 / 12LA

8.52 ACRES

MATCH LINE STA. 720+00

721 722 723 724 725 726 727 728 729 730 731 732 733 734

END SHEET STA. 735+00

724+95

30°-54'

58°-48'-37"

STA. 732+51.80

2½ ST. FRAME HOUSE

GARDEN

12' GRAVEL DRIVE

CLOVER FIELD

CRUSHED GRAVEL

LANE

4" TILE

CORN FIELD

WHEAT FIELD

PASTURE

BANK BARN

GARAGE

SHED

51°-29'-37" (C.H. 121)

51°-22'-10" (C.H. 121) 115

51°-17'-41" (C.H. 121) STATIONING

733+48.66 (L.C.) 51°-57'-05" CH. 121

51°-42'-55" (C.H. 121) STATIONING

51°-29'-37" (C.H. 121)

52°-29'-41" (C.H. 121) STATIONING

722+87.66 120'

725+00 170'

735+00 160'

LOT No. 38

5685 L.F. TYPE "A" FENCE

SCALE 1"=50'

1 - TWO-STORY FRAME HOUSE
1 - GARAGE
1 - BANK BARN
1 - SHED

RIGHT OF WAY STA. 705+00 TO STA. 735+00 COMPLETED 10/4/57


MED-1-10.09
FED. RD. 2 STATE OHIO PROJECT I-1105 (25)
183
189
MEDINA COUNTY
MONTVILLE TWP.
LOT No 39
1-30" CHERRY
3-12" W. CHERRY
PROPOSED R/W LINE
R/W FENCE
HAY FIELD
W.F. HUNTER
74
12 LA
8.52 ACRES
4 CAR GAR.
GRAVEL DRIVE
SILO
BANK BARN
SHED
2 ST. FR. HOUSE
2-BROODER HOUSES
PASTURE
CLOVER FIELD
BEGIN SHEET STA. 735+00
N-30°-55'-27"-E
736 737 738 739 740 741 742 743 744 745 746 747 748 749
744+60.3
2'(TYP)
CORN FIELD
LOT No 54
A.J. & NELLIE E. NICHOLS
74
13 LA
10.57 ACRES
74
13 X
0.11 ACRES
749+25
200'
749+25
150'
750+00
150'
TILE
MATCH LINE STA. 750+00
735+00
160'
743+00
160'
758+00
160'
PROPOSED R/W LINE
1-12" APPLE
3-18"-24" MAPLES
2-11"-24" BEECH
1-24" BEECH
4-24"-30" MAPLES
2-18"-24" HICKORY
2-12"-18" HICKORY
10-12"-18" ELMS
10-18"-24" ELMS
3-18"-24" MAPLES
3-18"-24" HICKORYS
3-12"-18" HICKORYS
8-18"-24" ELMS
8-12"-18" ELMS
5-18"-24" HICKORYS
3-12"-18" HICKORYS
3-12"-18" MAPLES
2-12"-18" BEECH
1-18"-24" BEECH
19-12"-18" ELMS
1-30"-36" HICKORY
1-12"-18" HICKORY
2-12"-18" MAPLES
3-12"-18" BEECH
2-12"-18" MAPLES
4-18"-24" MAPLES
1-12"-18" HICKORY
3-30"-36" ELMS
5-18"-24" ELMS
8-12"-18" ELMS
750+25
200'
750+25
150
4" TILE
8" TILE
SWALE
CORN FIELD
SCRUB PASTURE
4" OHIO FUEL GAS LINE
759+41
34'
74
13 LA
WOODS
STREAM
765+00
160'
751 752 753 754 755 756 757 758 759 760 761 762 763 764
759+63.5
760+40.5
34'
18' CATTLE LANE
8" TILE
LIGHT
40" ELM
OATS FIELD
R/W FENCE
PROPOSED R/W LINE
LOT No 53
74
14 X
0.08 ACRES
RAY SELZER ET. AL.
74
14 LA
13.56 ACRES
MATCH LINE STA. 750+00
END SHEET STA. 765+00
750+00
150
754+00
150'
759+19
160'
759+93
160
760+38
160'
759+75
245'
760+20
245'
MEDINA COUNTY
MONTVILLE TWP.
LOT No 54
1-BANK BARN
1-SHED
2-BROODER HOUSES
1-4 CAR GARAGE
1-2-ST. FR. HOUSE
1-SILO
6000 L.F. TYPE "A" FENCE
SCALE: 1" = 50'
1-24" MAPLE
2-24"-36" ELMS
6-18"-24" ELMS
7-12"-18" MAPLES
2-18"-24" BEECH
10-12"-18" ELMS
1-12"-18" HICKORY
2-18"-24" WALNUTS
3-12"-18" HICKORYS
5-18"-24" HICKORYS
13-12"-18" ELMS
3-18" ELMS
6-12" ELMS
3-24" ELMS
2-12"-18" BEECH
3-12"-18" HICKORYS
1-18" MAPLE
6-12"-18" ELMS
1-36" ELM
3-12"-18" HICKORYS
8-12"-18" ELMS
1-18" BEECH

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

184
189

MED-I-10.09

MEDINA COUNTY
MONTVILLE TWP.
LOT Nº 53

1-18" MAPLE
1-14" ELM

2-12" W. CHERRY
1-12" ELM

1-12" HICKORY

2-12" HICKORY
1-30" HICKORY

2-14" ELMS

765+00
180'

PROPOSED R/W LINE

R/W FENCE

HAY FIELD

OATS FIELD

HAY FIELD

RAY SELZER ET. AL.

74
14LA

15.56 ACRES

NAT'L GAS PRESS. TANK

PLUG GAS WELL

GAS WELL

WASTE PIT

CORN FIELD

766 767 768 769 770 771 772 773 774 775 776 777 778 779

N-30°-55'-27"-E

BEGIN SHEET STA. 765+00

2" OHIO FUEL GAS LINE

HAY FIELD

CORN FIELD

OATS FIELD

R/W FENCE

765+00
160'

770+00
160'

1-24" HICKORY
2-12" ELMS
1-12" W. CHERRY
5-18-24" ELMS
1-24" ELM
3-12-18" MAPLES
2-24-30" MAPLES
1-30" WITCHAZEL

1-24" WITCHAZEL

1-30" ELM
1-24" ELM

1-24" W. CHERRY
1-12" ELM

1773+00
140'

30" HICKORY

2' TYP.

PROPOSED R/W LINE

1778+09
140'

780+00
140'

MATCH LINE STA. 780+00

74
16LA

74
15LA

OATS FIELD

2-12" HICKORY
1-24" ELM
1-12" ELM

780+00
180'

783+00
180'

PROPOSED R/W LINE

786+00
200'

R/W FENCE

WHEAT FIELD

47+40.71(45') C.H. 71
788+51.14(200') S.E.I

VAUGHN H. WELLS

74
16LA

5.56 ACRES

780+74.65
15.50'

781

782

783

784

785

786

787

788

789

790

791

792

793

794

S.R. 1

N-30°-55'-27"-E

780+65.5

88°51'

55°26'

DONALD D. & BEULAH M. SCOTT

74
15LA

0.60 ACRES

785+57
128

784+84
180'

WHEAT FIELD

781+65.2
170'

780+00
170'

JOHN W. SELZER

74
17LA

0.03 ACRES

785+57
180'

36.03'

KENNETH & LUCY BROWN

74
18LA

1.61 ACRES

PASTURE

788+06
57'

787+31

788+36

1 - 1½ -STORY FRAME HOUSE
1 - TWO-STORY FRAME HOUSE
2 - FRAME TWO-CAR GARAGE
3 - SHED
- - 4' X 4' WELL
1 - SEPTIC TANK

SEPTIC TANK

FRAME

CRUSHED STONE

L.E. & R.H. HADLOCK
0.53 ACRES

74
19LA

55°

45°

SHED

4'X4' WELL

EXISTING R/W LINE

C.H. Nº 71

789+91.65(160') S.E.I

789+91.65(160') C.H. 71

789+91.65(160') S.E.I

789+91.65(160') C.H. 71

48+37.93(60') C.H. 71

LOT Nº 61

CORN FIELD

788+00
180'

CORN FIELD

MYRLE Mc FADDEN - ½
W.F. Mc FADDEN - ½

74
21LA

9.84 ACRES

18" APPLE

20" APPLE

24" APPLE

22" APPLE

16" APPLE

14" APPLE

TWIN 16" APPLE

S.R. 1 790+22.79
C.H. 71 50+00
7.31

SYSTEMATIC DRAIN TILE

END SHEET STA. 795+00

R/W FENCE

WHEAT FIELD

PRIVY

PROPOSED R/W LINE

T

1 ST. FRAME HOUSE

T FRAME GARAGE

792+00
180'

792+33.31(60') C.H. 71
791+93.41(70') S.E.I

793+00
170'

795+00
180'

CHICKEN HOUSE

2 CAR GAR.

JAMES J. & BEATRICE WELLS

74
20LA

0.01 ACRES

51+73.44(60') C.H. 71
790+71.42(80') S.E.I

3865 L.F. TYPE "A" FENCE
SCALE 1" = 50'

RIGHT OF WAY STA. 765+00 TO STA. 795+00

COMPLETED 10/3/57

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(24)	

185
189

MEDINA COUNTY
MONTVILLE TWP.
LOT No 61
PROPOSED R/W LINE
R/W FENCE
PASTURE
MYRLE & W. F. McFADDEN
74
21LA
9.84 ACRES
JAMES BROWN
74
24X
0.15 ACRES
PROPOSED R/W FOR S.R. 57
JAMES BROWN
74
24LA
GEORGE W. PORTER ET. AL.
74
23LA
1.34 ACRES
PETER & BARBARA GROSSER
74
22LA
1.10 ACRES
74
23X
0.17 ACRES
PETER & BARBARA GROSSER
74
22X
0.69 ACRES
SWALE & 6" TILE
N-30°-55'-27"-E
BEGIN SHEET STA. 795+00
END CONTRACT C-74 STA. 808+00
EXISTING R/W LINE
TEMPORARY R/W
PROPOSED R/W FOR S.R. 57
803+71.19(160') S.R.1
48+69.54(97.42') S.R.57
803+77.11 S.R.1
50+00 S.R.57
801+45.39(150') S.R.1
52+71.65(75') S.R.57
801+35.08(160') S.R.1
52+86.20(75.06') S.R.57
806+65.81(160') S.R.1
47+13.47(155') S.R.57
806+14.27
804+06
BEGIN CONTRACT C-75 STA. 808+00
POWER LINE
NOTE - ADDITIONAL RIGHT OF WAY ADDED TO DETERMINE AREA TAKEN FOR APPRAISALS.
HENRY PORTER
75
1-LA
7.50 ACRES
NOTE: PARCEL 75-1-LA WILL INCLUDE THE ACRES ON SUMMARY SHEET, CONTRACT 5
PASTURE
UNCULTIVATED FIELD
Superseded by MED-71-13.81 (1971)
809+00
810+00
811+00
812+00
813+00
814+00
815+00
816+00
817+00
818+00
819+00
817+08.5

NOTE - FENCE MEASURED TO END OF CONTRACT C-74 - STA. 808+00

2,116 L.F. TYPE "A" FENCE
F. FENCE
SCALE 1" = 50'

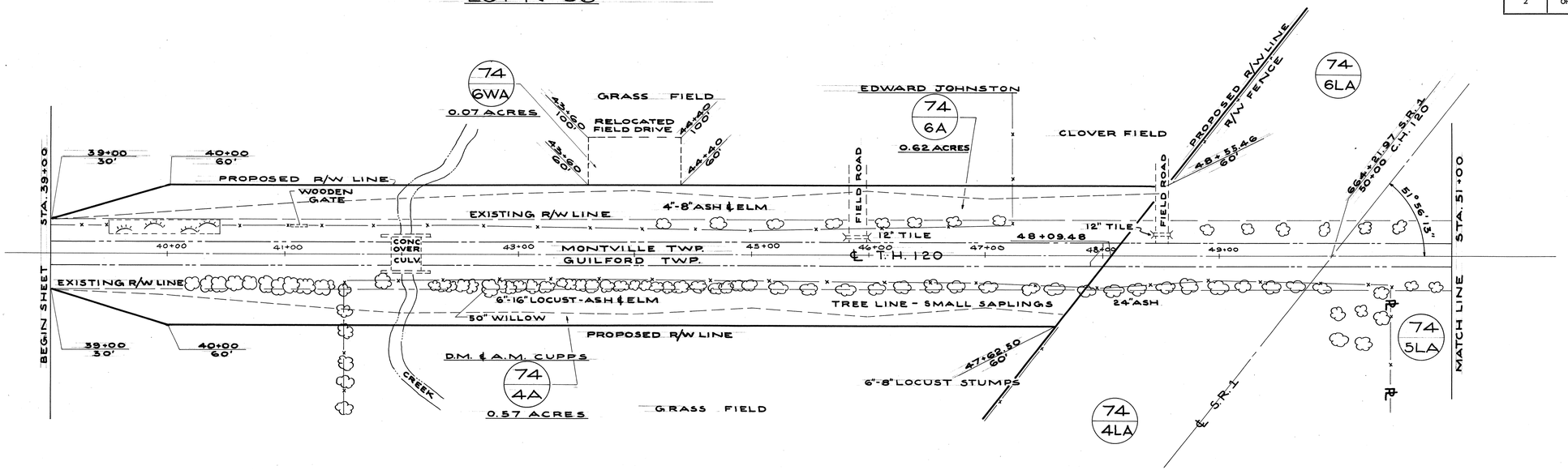
RIGHT OF WAY STA. 795+00 TO STA. 808+00

TOPO - STA. 808+00 TO 819+00 R.C.V.
COMPLETED 10/8/57

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

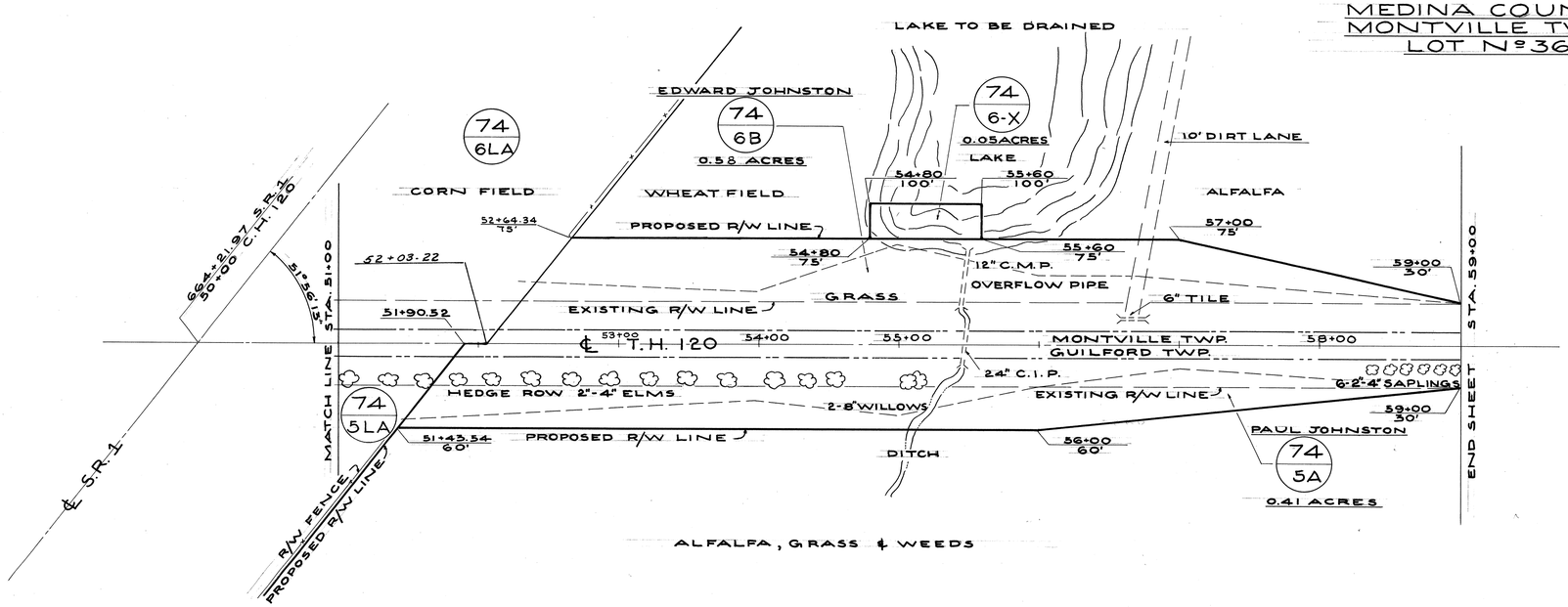
186/189

MEDINA COUNTY
MONTVILLE TWP.
LOT Nº 36



MEDINA COUNTY
GUILFORD TWP.
LOT Nº 4

MEDINA COUNTY
MONTVILLE TWP.
LOT Nº 36



MEDINA COUNTY
GUILFORD TWP.
LOT Nº 6

NOTE- FENCING SHOWN INCLUDED IN TOTAL ON SHEET Nº5 OF 14

RIGHT OF WAY T.H. 120 STA. 41+00 TO STA. 59+00

R.C.V. 9/28/57
COMPLETED 10/4/57

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

187/189

MED-I-10.09

MEDINA COUNTY
MONTVILLE TWP.
LOT Nº 39

BEGIN SHEET STA. 40+00

A.W. & M.G. McMILLEN
74 12-A
0.20 ACRES OATS

74 12WA
0.01 ACRES

74 12-LA

74 12-B
W.F. HUNTER
0.11 ACRES

74 11-B
0.05 ACRES

74 11-T-1
0.92 ACRES

74 11-T
0.15 ACRES

74 11-LA
ROBT. D. & BETTY HUNTER

74 11-A
0.15 ACRES

CLARENCE L. FRALEY

ROBT. D. & BETTY. D. HUNTER

PROPOSED R/W LINE

EXISTING R/W LINE

TEMPORARY R/W LINE

R/W LINE

C.H. 121

RUNAROUND

CORN FIELD

OATS

HOUSE

FRAME HOUSE

WELL

MAIL BOX

2 MAIL BOXES

10' DRIVE

ROW OF ELM STUMPS

HEDGE

3'-8" WALNUT

10" C.M.P.

16" C.M.P.

24" W. CHERRY

2 CHERRY

10" CHERRY

8" WALNUT

12" C.I. PIPE

6" MAPLE

14" TRIPLE CHERRY

12" CEDAR

8" CEDAR

5" PEACH

2" BLUE SPRUCE

1" MAPLE

14" PEAR

12" PEAR

2" MAPLE

10" V.C.P.

8" V.C.P.

S.R. 1

MATCH LINE STA. 51+00

STA. 51+00

STA. 732+51.80

58° 48' 37"

41+00 42+00 43+00 44+00 45+00 46+00 47+00 48+00 49+00 50+00

48+12.97

47+65.23 65'

47+00 65

48+52.32 65'

45+58 60'

45+00 50'

45+25 50'

46+00 75'

45+00 30'

47+67.57 75'

47+00 75'

47+45.35 115'

46+11.33 50.10'

46+11.33 115'

42+30 115'

41+00 30'

W.F. HUNTER
74 12-C
0.28 ACRES

PASTURE

PROPOSED R/W LINE

PROPOSED

R/W LINE

EXISTING R/W LINE

C.H. 121

RUNAROUND

MATCH LINE

END SHEET

STA. 51+00

STA. 59+00

CLOVER

TIMOTHY

3" W. CHERRY

24" APPLE

10" APPLE

3" APPLE

2-1" PINES

3-1" PINES

4" DRAIN TILE

12" DRIVE

HOUSE

74 11-T-2
0.29 ACRES

74 11-T-3
0.61 ACRES

74 11-D
0.08 ACRES

74 11-C
0.18 ACRES

JOHN R. & BERTHA S. ROWE

ROBERT D. & BETTY DALE HUNTER

MONTVILLE TWP.
MEDINA CO.
LOTS # 38 & 39

TEMPORARY R/W LINE

51+98.72

51+87.03

51+65.37 65'

51+29.10 115'

52+70.41 70'

53+95 30'

53+95 65'

53+95 115'

54+00 70'

56+00 30'

55+00

56+00

57+00

58+00

732+00

733+00

58° 48' 37"

58° 48' 37"

58° 48' 37"

S.R. 1

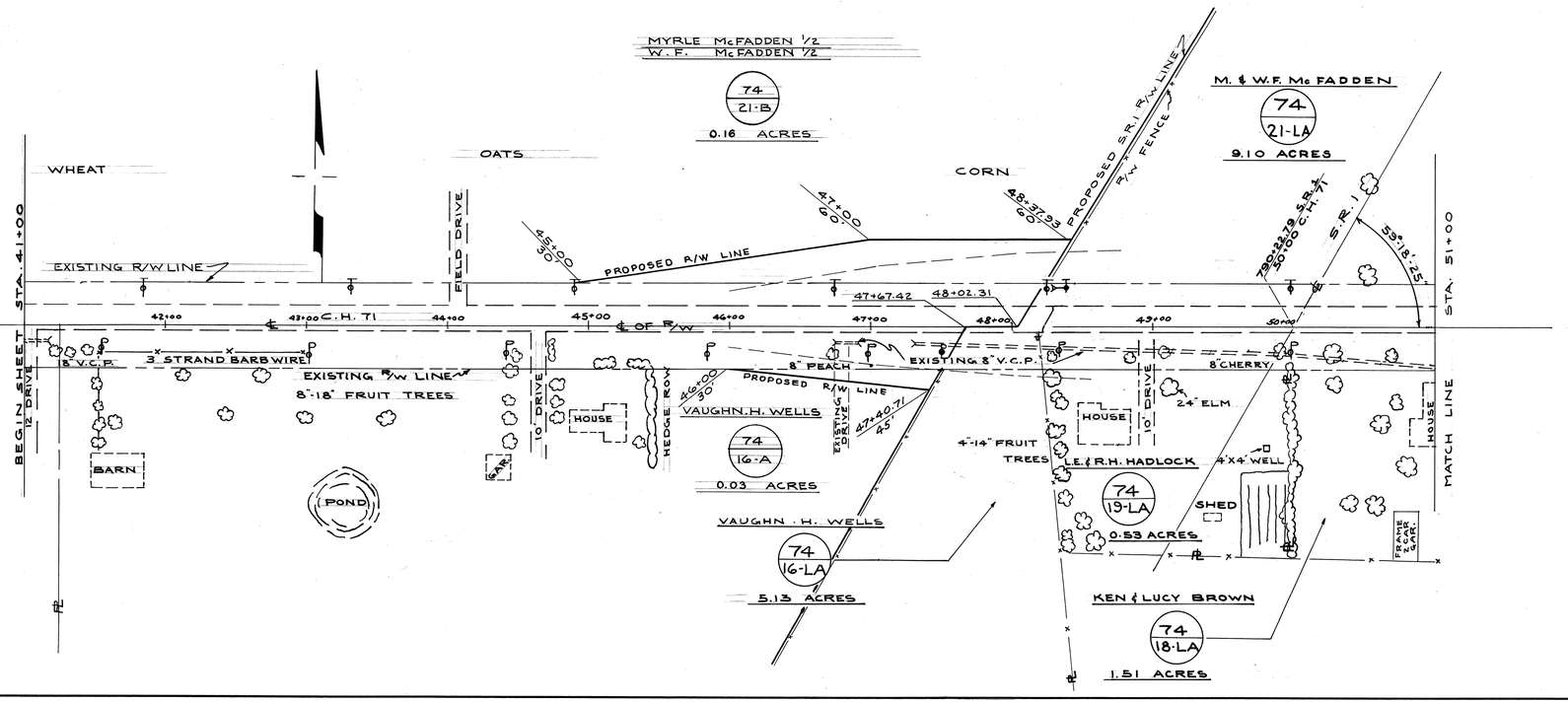
RIGHT OF WAY C.H. 121 STA. 41+00 TO STA. 59+00

COMPLETED 10/5/57 R.C.V.

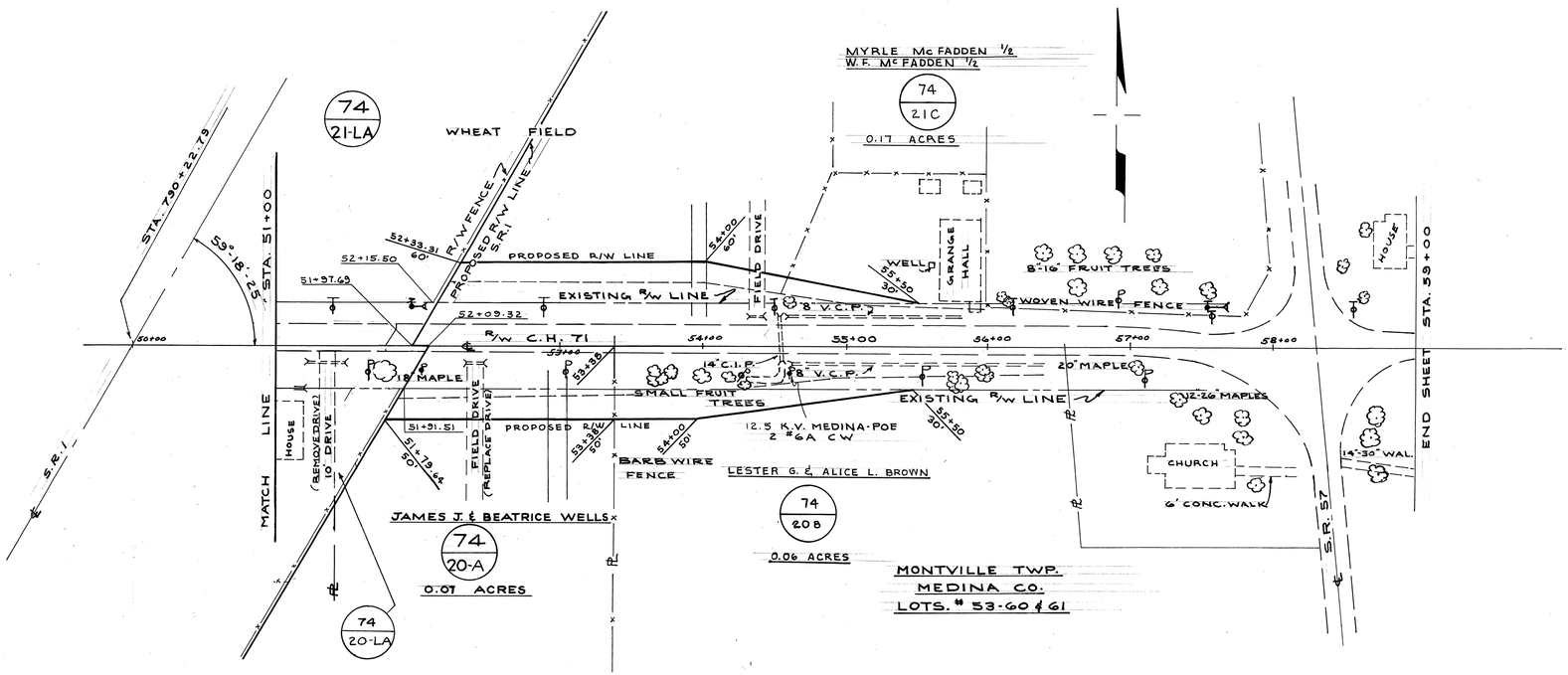
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

188/189

MED-1-10.09



1-1 STORY FRAME HOUSE
1-SHED



1-2 STORY FRAME HOUSE
1-FRAME 2 CAR GARAGE

NOTE - FENCING SHOWN IS INCLUDED IN TOTAL ON SHEET No 9 OF 14

RIGHT OF WAY C.H. 71 STA. 41+00 TO STA 59+00

COMPLETED 10/4/57 R.C.V.

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

189
189

74 23-T
0.90 ACRES
MEADOW

HAY FIELD

GEORGE W. PORTER ET. AL.
74 -23A
0.68 ACRES

41+50 170'

47+19.47 155'

47+40.33 115'

TEMPORARY R/W LINE & RUNAROUND

43+00 60'

40+00 45'

STA. 39+25

39+25 30'

PROPOSED R/W LINE

EXISTING R/W LINE

40+00 41+00 42+00 43+00 44+00 45+00 46+00 47+00 48+00 48+06.05 48+00 50+00

℄ RELOCATED S.R. 57

EXISTING R/W LINE

PROPOSED R/W LINE

39+25 30'

40+00 45'

BEGIN SHEET

WHEAT FIELD

GAR.

8' CINDER DRIVE

2 ST. FRAME

BARN

JAMES BROWN
74 24-A
0.73 ACRES

T.S. STA. 43+80.91

43+00 60'

GARDEN

LOCUST GROVE

APPLE ORCHARD

S.C. STA. 47+30.91

PASTURE

JAMES BROWN
74 -24-X
0.22 ACRES

47+91.81 (97.12) S.R. 57 STA.

803+00 (255') S.R. 1 STATIONING

74 -23LA

806+42.27 S.R. 1

38°-55'

P. & B. GROSSER
74 22LA

S.R. 1

℄ EXISTING S.R. 57

52°-42'-38"

JAMES BROWN
74 -24LA

48+55.55 S.R. 57

803+77.7 S.R. 1 STA.

MATCH LINE

STA. 51+00

SR 57 CURVE DATA
Dc = 3°
Rc = 1909.86

MEDINA COUNTY
MONTVILLE TWP.
LOT Nº 61

74 22-T
0.75 ACRES

52+50 165'

UNCULTIVATED FIELD

54+00 150'

TEMPORARY R/W LINE & RUNAROUND

PETER & BARBARA GROSSER
74 -22-A
0.23 ACRES

50+39.49 150'

51+13.32 95'

52+00 55'

PROPOSED R/W LINE

EXISTING R/W LINES

EXISTING S.R. 57

53+00 54+00 55+00 56+00 57+00 58+00 59+00

51+96.39

52+71.25 75'

52+86.20 75'

PROPOSED R/W LINE

MYRLE & W.F. McFADDEN
74 21-A
0.56 ACRES

℄ RELOCATED S.R. 57

805+77.11 S.R. 1 STA.

MATCH LINE STA. 51+00

℄ S.R. 1

0.47 ACRES
74 22-T1

MEDINA BOARD OF EDUCATION
74 -22-B
0.09 ACRES

55+08.78

1ST. BRICK SCHOOL BLDG. (ABANDONED)

58+50 60'

57+50 50'

55+50 50'

14" V.C.P.

C.S. STA. 55+83.32

PASTURE

SHED

PETER & BARBARA GROSSER
74 22-T2
0.03 ACRES

59+50 50'

HAY FIELD

58+00 50'

EXISTING R/W LINE

2 CAR. GAR.

BARN

S.T. STA. 59+33.32

END SHEET STA. 60+00

74 22 X
74 23 X

FOR ABOVE PARCEL NUMBERS CONCERNING DRAINAGE EASEMENTS SEE R/W SHEET Nº 10 OF 14

MEDINA COUNTY
MONTVILLE TWP.
LOT Nº 61

1 - SHED

NOTE - FENCING SHOWN INCLUDED IN TOTAL ON SHEET Nº 10 OF 14

SCALE 1" = 50'

RUNAROUND REVISED 10/2/57 R.C.V.

RIGHT OF WAY S.R. 57 STA. 39+25 TO STA. 60+00

LEGEND FOR PROJECT — AVERAGE RESULTS OF TESTS — SAMPLES TESTED

DESCRIPTION	H.R.B. CLASS	OHIO CLASS	% A.G.G.	% C. SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	SAMPLES TESTED
GRAVEL OR STONE & SAND	A-1-b	A-1-b	45	19	18	11	7	N.P.	N.P.	8.9	1
COARSE & FINE SAND	A-3	A-3a	31	30	24	8	7	N.P.	N.P.	12.3	7
GRAVEL & SAND-SILT-CLAY	A-2-6	A-2-6	34	24	16	17	9	22.9	10.6	12.0	3
GRAVEL & SAND-SILT-CLAY	A-2-7	A-2-7									
SANDY SILT	A-4	A-4a	11	8	15	35	31	24.5	8.7	14.2	20
SILT	A-4	A-4b	0	1	5	54	40	24.6	8.1	16.5	11
SILT AND CLAY	A-6	A-6a	4	8	12	36	40	31.0	12.2	17.1	28
SILTY CLAY	A-6	A-6b	—	—	—	—	—	36.6	17.6	18.3	4
CLAY	A-7-6	A-7-6	12	6	11	35	36	44.6	22.9	21.3	4
TOPSOIL	CLASSIFIED BY VISUAL INSPECTION										
SHALE	CLASSIFIED BY VISUAL INSPECTION										
SANDSTONE	CLASSIFIED BY VISUAL INSPECTION										

AUGER BORINGS PLOTTED TO VERTICAL SCALE ONLY.

TOPSOIL = TS = X = APPROXIMATE DEPTH

BERM MATERIAL

AUGER BORING — PLAN VIEW

WATER CONTENT NEARLY EQUAL TO OR GREATER THAN LIQUID LIMIT.

GROUND WATER ELEVATION

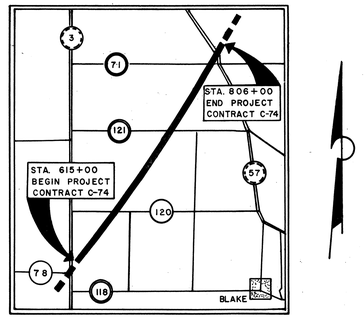
NOTE: FIGURES BESIDE BORINGS INDICATE MOISTURE CONTENT IN PERCENT.

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

1/4

MED-1-10.09

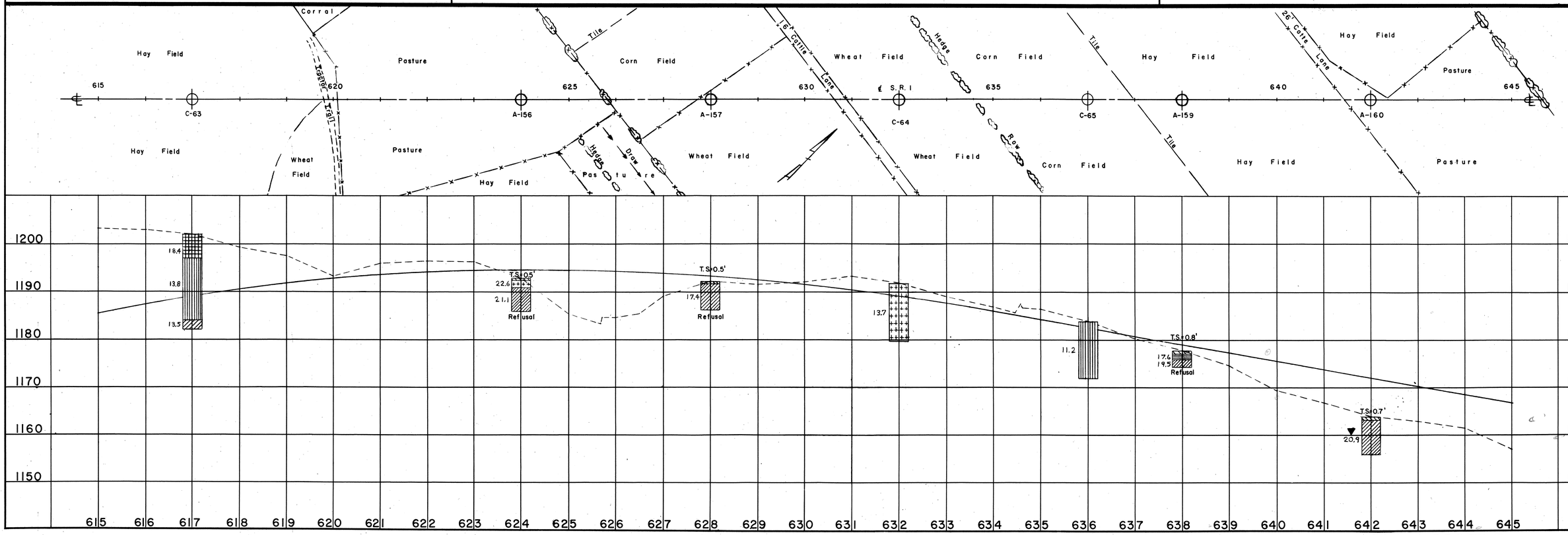
NOTE:
THE INFORMATION SHOWN BY THIS SUBGRADE PROFILE WAS SECURED FOR THE USE OF THE STATE OF OHIO AND IS NOT TO BE CONSTRUED AS A PART OF THE PLANS GOVERNING THE CONSTRUCTION OF THE PROJECT.



TOWNSHIP ROAD

COUNTY HIGHWAY

STATE ROUTE



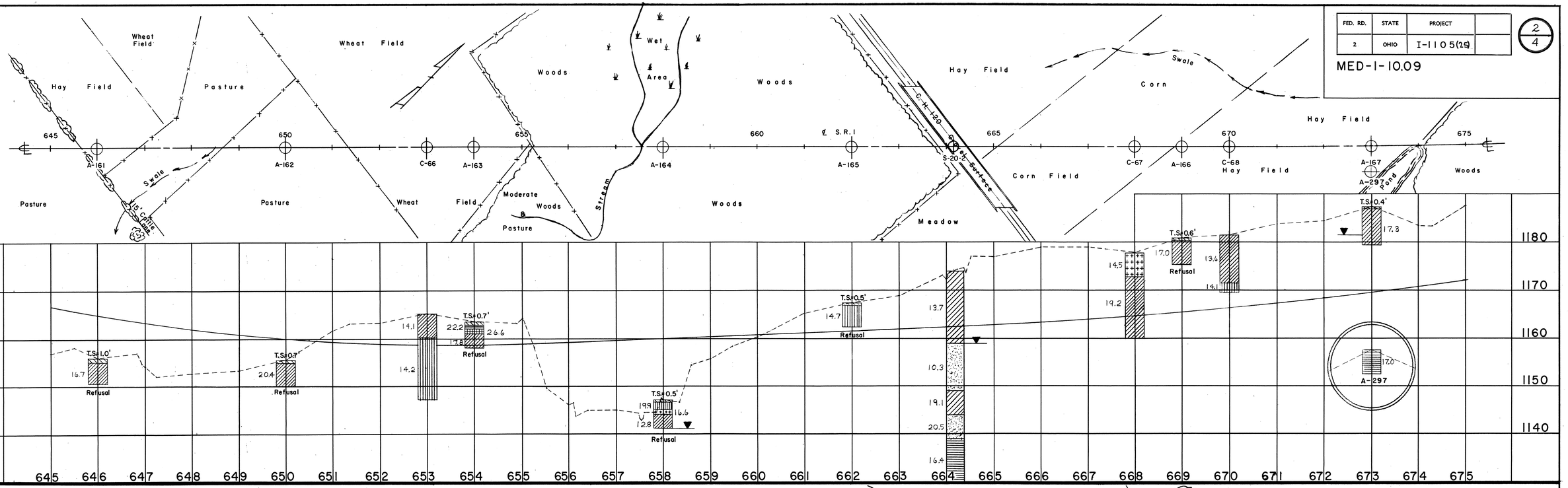
SOIL PROFILE

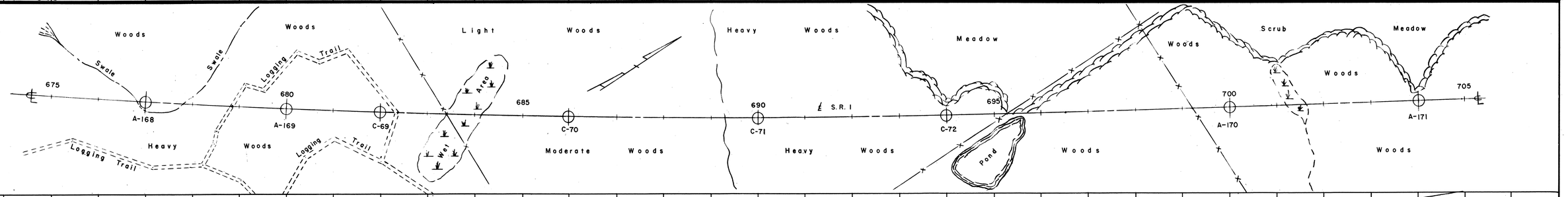
R.A.Cox

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(12)	

MED-I-10.09

2/4





SOIL PROFILE

R.A.Cox

FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

3/4

MED-1-10.09

Wheat Field
Corn Field
Woods
Division
Corn Field
Wheat Field
17' Cattle Lane
Wheat Field
Division
Corn Field
Line
Wheat Field
Wheat Field
Drive
705
710
715
720
℄ S.R. 1
725
730
735
A-172
A-173
A-174
C-73
C-74
C-75
S-21-2
Corn Field
Clump of Trees
Pasture
Woods
Wheat Field
Field
Corn Field
Hay Field
Corn Field
Property
Wheat Field
Pasture
Lane
Bank Barn
House
Garden
Lawn
Garage
Clover Field

1240
1230
1220
1210
1200

T.S.+1.0'
19.9
16.1
T.S.+0.9'
20.9
Refusal
T.S.+1.0'
16.0
Refusal
14.7
16.6
14.2
13.9
10.7
8.0
14.3
15.9

705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735

Wheat Field
Garage
Gravel Drive
1st Lane
Bank Barn
Lawn
Hen Ho
House
Garden
Hay Field & Pasture
740
745
750
℄ S.R. 1
755
760
765
A-177
A-178
C-76
A-179
A-180
A-181
A-298
A-182
Hay Field
Pasture
Hay Field & Pasture
Field Division
Corn Field
Corn Field
8' Tile
Swale
18' Cattle Lane
Oats Field
Scrub & Pasture
Oats Field
Woods
Stream
Hay Field
Woods
Clover Field

1230
1220
1210
1200
1190

T.S.+0.8'
28.9
33.3
22.5
Refusal
T.S.+1.0'
18.0
Refusal
13.4
T.S.+1.0'
19.1
Refusal
T.S.+1.0'
22.3
19.0
T.S.+1.0'
17.7
19.0
Refusal
19.6
A-298
T.S.+1.0'
17.8
Refusal

735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765

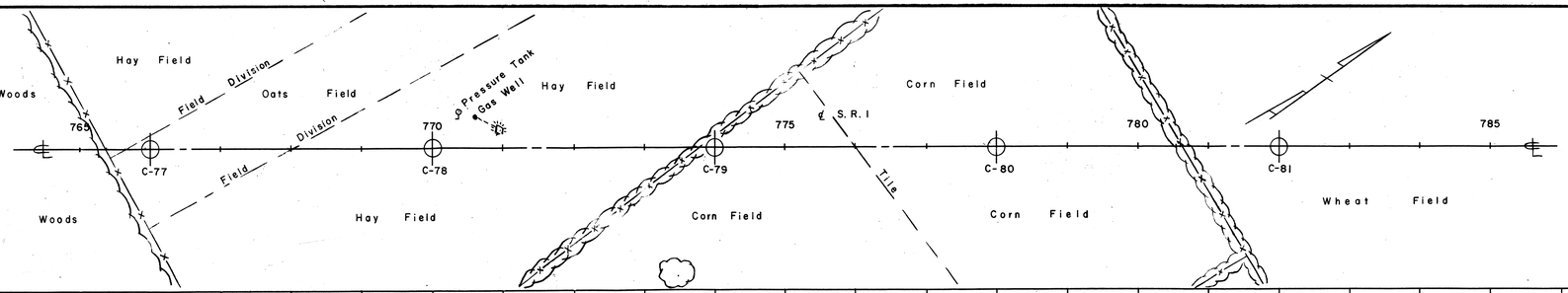
SOIL PROFILE

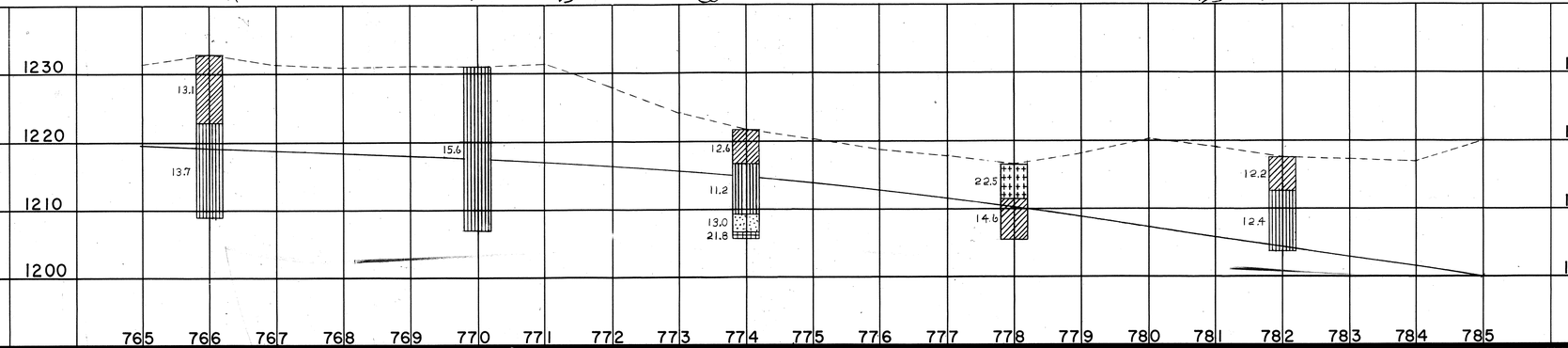
R.A.Cox

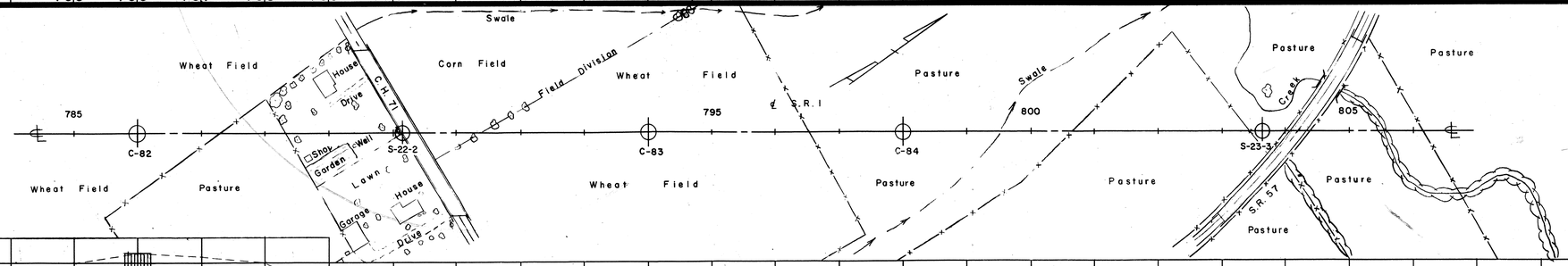
FED. RD.	STATE	PROJECT	
2	OHIO	I-1105(25)	

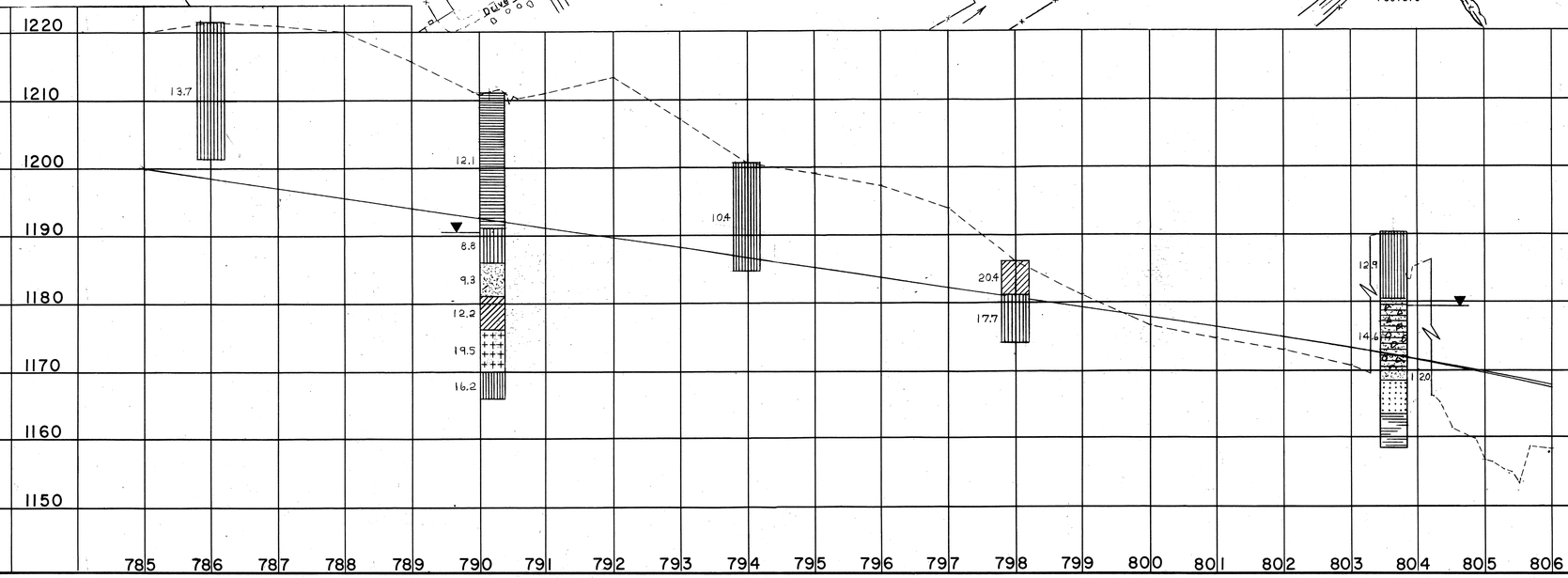
MED-1-10.09

4/4









SOIL PROFILE

R.A.Cox