MICROFILMED
MAY 10 1965

CONVENTIONAL SIGNS

COUNTY LINE
TOWNSHIP LINE
SECTION LINE
CORPORATION LINE
CENTER LINE
FENCE LINE
POWER POLES
TELEPHONE POLES
GUARD RAIL -- EXISTING
GUARD RAIL -- PROPOSED
SOD DITCHES
PAVED DITCHES
SEED & MULCH DITCHES
DUMPED ROCK
JUTE MATTING
RIGHT OF WAY WITH LIMITED ACCESS — LA
RIGHT OF WAY WITHOUT LIMITED ACCESS — R/W
EXISTING RIGHT OF WAY
CONSTRUCTION LIMIT LINE

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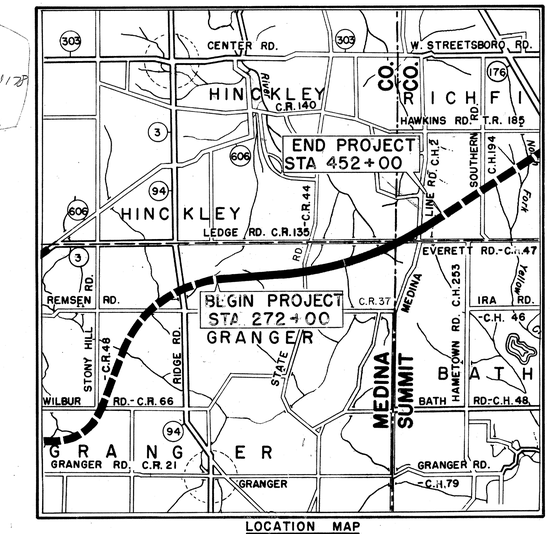
LINE DATA

Begin Project Sta 272+00
End Project Sta 452+00

Net Length of Project		18,000.00	Lin. Ft or 3.409 Mi.
Add for Work	Sta 269+33 to 272+00	267.00	Lin. Ft.
	Sta 452+00 to 460+58	858.00	Lin. Ft.
C.R. 44	Sta 44+30 to 52+75	845.00	Lin. Ft.
C.H. 47	Sta 0+51.92 to 14+90.73	1,438.81	Lin. Ft.
C.H. 2	Sta 0+75 to 16+25	1,550.00	Lin. Ft.
TOTAL WORK		22,958.81	Lin. Ft or 4.348 Mi.

Reproduced Tracings of Sheets 158 and 159 and revised sheet 176 and 178 will follow AWG 1-18-66

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
MED-271-4.53
SUM-271-0.00
MEDINA & SUMMIT COUNTIES
GRANGER, RICHFIELD & BATH TOWNSHIPS



LOCATION MAP

SCALE IN MILES 0 1 2 3

DELIVERY POINT — Medina B.&O. R.R. and A.C.&Y R.R.

AVERAGE HAUL — 9.5 Miles

PORTION TO BE IMPROVED
STATE HIGHWAYS
OTHER ROADS
OTHER CONTRACTS

SCALES

PLAN	1" = 50'
PROFILE -- HORIZONTAL	1" = 50'
PROFILE -- VERTICAL	1" = 5'
CROSS SECTIONS	1" = 10'

I-271-6(14)225

All reference to Federal No. I-271-6(14)224 appearing in this plan shall be considered to be I-271-6(14) 225.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)225	

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MEDINA AND SUMMIT COUNTIES
MED-271-4.53
SUM-271-0.00

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.

1965 SPECIFICATIONS

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 NECESSARY FOR THIS IMPROVEMENT WILL BE PROVIDED BY THE STATE OF OHIO.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISION FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THESE PLANS AND ESTIMATES.

APPROVED: D.H. Limmer
DATE 6-4-65 DIVISION DEPUTY DIRECTOR

APPROVED: C.H. Albrecht
DATE 12-13-65 ENGINEER OF BRIDGES

APPROVED: R.N. Ricketts
DATE 1-18-66 ENGINEER OF LOCATION & DESIGN

APPROVED: D.E. Hault
DATE 1-18-66 DEPUTY DIRECTOR, DESIGN & CONSTRUCTION

APPROVED: T.H. Bonnell
DATE 1-28-66 DEPUTY DIRECTOR, RIGHT OF WAY

APPROVED: F.W. Wilson
DATE 1-28-66 DEPUTY DIRECTOR, PLANNING & PROGRAMMING

APPROVED:
DATE FIRST ASSISTANT DIRECTOR

APPROVED: P.E. Masheter
DATE 1-28-66 DIRECTOR OF HIGHWAYS

No RR HBV 1-1946

PLANS PREPARED BY
J. E. GREINER COMPANY
CONSULTING ENGINEERS -- BALTIMORE, MARYLAND

STANDARD CONSTRUCTION DRAWINGS

DRAWING NO.	DATE	DRAWING NO.	DATE	DRAWING NO.	DATE	DRAWING NO.	DATE
BP-1	6-1-65	HW-E	6-1-65	GR-6	6-1-65	SD-1-63	8-5-63
BP-2	6-1-65	MC-4	6-1-65	L-1	6-1-65	F-2	6-1-65
BP-6	6-1-65	CB22-A&B	6-1-65	BP-3	6-1-65	F-3	6-1-65
FACI-1	6-1-65	CB-4	6-1-65	MC-1	6-1-65	SD-163 (2 shts)	11-12-63
FACI-2	6-1-65	CB-5	6-1-65	BP-5	6-1-65	BR-1-65 (sht 1)	8-1-65
MC-3	6-1-65	MC-5	6-1-65	BP-4	6-1-65	SD-2-64	11-25-64
		GR-1	6-1-65	SD-53	6-30-61		
HW-3	6-1-65	GR-2A	6-1-65	A3-1-54	8-10-65		

SUPPLEMENTAL SPECIFICATIONS

NUMBER	DATE	NUMBER	DATE
816	8-6-65		
801	9-2-65		
806	9-2-65		
808	7-14-65		
811	3-29-65		
815	8-6-65		
825	4-22-65		

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED:

DIVISION ENGINEER DATE

FILE NO. 247M

MED-271-4.53
SUM-271-0.00
DATE OF LETTING ____ 19
CONTRACT NO. ____

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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MEDINA COUNTY
SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

CURVE #3
P.I. Sta. 235+62.79
Δ = 66°-44'-37"
D = 0°-40'-00"
R = 8,594.36'
L = 10,011.54'
T = 5,660.87'
E = 1,696.82'

MED-271-0.00 | BEGIN PROJECT Sta. 272+00.00
I-271-6(13)221 | I-271-6(14)224

Sta. 282+40
℄ Standard U-Turn
Median Opening

N 85°-56'-38" E

262+00 265 270 275 280 285 290 295 300 305 310 315 320+00

Curve #3

BEGIN WORK 269+33

P.T. 279+13.46

℄ I-271

N85°-56'-38" E
Gas Valve

Ⓐ 6"Gas

UTILITIES

Ⓐ Ohio Fuel Gas Company
99 N. Front St.
Columbus 15, Ohio

Ⓑ Ohio Edison Company
47 North Main St.
Akron 8, Ohio

* Place Road closed sign on C.R. 44 at C.R. 135

4 Wires Ⓑ

Begin Work 44+30

Bridge Nº MED-271-0579

End Work 52+75

State Rd. - C. R. 44

* Place Road closed sign on C.R. 44 at C.R. 37

CURVE #4
P.I. Sta. 382+90.47
Δ = 29°-00'-19"
D = 0°-28'-00"
R = 12,277.67'
L = 6,215.42'
T = 3,175.82'
E = 404.09'

P.C. 351+14.65

Ⓐ 2"Gas

Ⓐ 2"Gas

Ⓐ 6"Gas

Ⓑ 3 Wires

Ⓑ 2 Wires

320+00 325 330 335 340 345 350 355 360 365 370 375 380 384+00

℄ I-271

Curve #4

N 85°-56'-38" E

N56°-56'-19" E

PI #4

LEGEND

Proposed Work
Existing Road

UTILITIES

* See Traffic Maintenance Notes.

DESIGN DESIGNATION
DESIGN YEAR (1975) ADT 10,370
DHV 1,140
D 55%
T 4%
V 70 M.P.H.

Scale: 1"=200'

SCHEMATIC LAYOUT PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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MEDINA COUNTY
SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

Ledge Rd. - C.H. 135

MEDINA CO.
SUMMIT CO.

12 Wires Ⓑ

Begin Work 0+51.90

FAC 1 0+56 Rt.

P.T. 413+30.07

4 Wires Ⓓ

408+83.99

384+00

385 390 395 400 405 410 415 420 425 430 435 440 445+00

Curve #4

N 56° 56' 19" E

Bridge Nº SUM-271-0019

Bridge Nº SUM-271-0046

Medina Line Rd. - C.H. 2

℄ I-271

℄ Temp. Runaround

3 Wires Ⓓ

End Work 14+90.73 14.85 Lt. FAC 1

Begin Work 0+75

Ⓑ 1 Cable, 1 Wire

FAC 1 16+25 Lt.

End Work 16+25

* Place Road closed sign on C.H. 2 at T.R. 185

* Place Road closed sign on C.H. 2 at C.H. 47

Ⓒ 4" Gas

Sta. 409+25
℄ Sta. Median
U-Turn Opening

CURVE #4
P.I. Sta. 382+90.47
Δ = 29°-00'-19"
D = 0°-28'-00"
R = 12,277.67'
L = 6,215.42'
T = 3,175.82'
E = 404.09'

LEGEND

Proposed Work
Existing Road

UTILITIES

Everett Rd. - C.H. 47

END PROJECT STA 452+00 SUM-271-0.83

I-271-6(14) 224

END WORK STA 460+58 RAMP U

S.B. REST AREA

445+00 450 455 460 465 470 475 480 485+00

N 56° 56' 19" E

℄ I-271

RAMP W

N.B. REST AREA

* See Traffic Maintenance Notes.

UTILITIES

Ⓑ Western Reserve Telephone Co.
245 Main Street
Hudson, Ohio

Ⓒ Sinclair Pipe Line Company
235 Sinclair Street
Toledo, Ohio 43605

Ⓓ Ohio Edison Company
47 North Main St.
Akron 8, Ohio

Scale: 1" = 200'

SCHEMATIC LAYOUT PLAN

TYPICAL SECTIONS

84' DEPRESSED MEDIAN

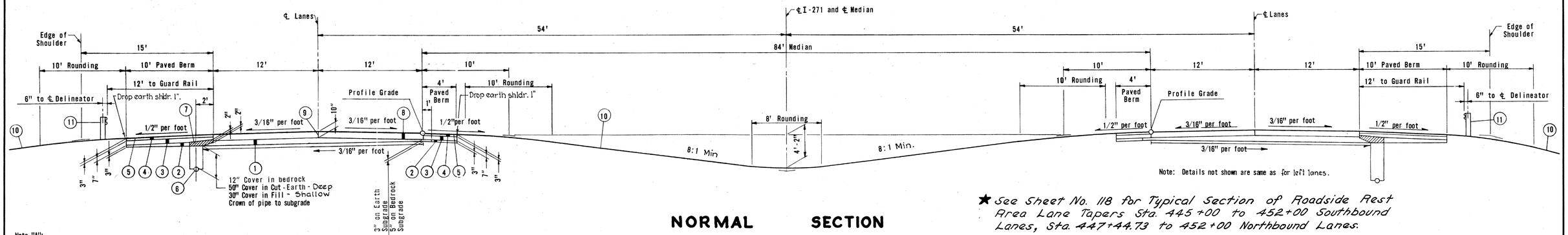
TYPE T-71

Scale: 3/16" = 1'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)225	

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MEDINA COUNTY
SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00



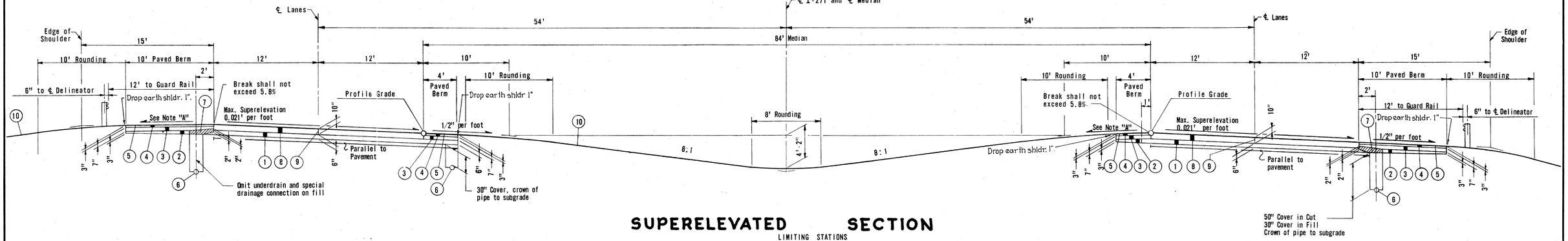
NORMAL SECTION

LIMITING STATIONS
Sta. 280+38.46 to Sta. 452+00.00 ★

★ See Sheet No. 118 for Typical Section of Roadside Rest Area Lane Tapers Sta. 445+00 to 452+00 Southbound Lanes, Sta. 447+44.73 to 452+00 Northbound Lanes.

Note: Details not shown are same as for left lanes.

Note "A":
Slope 1/2" per foot for superelevation 0 to 0.016' per foot.
Slope varies from 1/2" per foot at superelevation of 0.016' per foot to 0.037' per foot at superelevation of 0.021' per foot.



SUPERELEVATED SECTION

LIMITING STATIONS
Sta. 272+00.00 to Sta. 280+38.46

NOTES:
All slopes shown are typical unless otherwise shown on cross sections.
For slope treatment of side slopes, see sheet No. 5

Sequence of operations: (1) install pipe underdrain on outside shoulder, installation of shallow underdrain in median may be deferred until T-71 is placed, (2) place subbase out to outside edge of underdrain or to one foot beyond edge of pavement where no underdrain is present, (3) construct T-71, (4) remove subbase and any contaminated backfill over drain and replace with No. 6 aggregate as shown by (7), (5) complete shoulder construction.

LEGEND

(1)	Item I-22	Subbase, Grading "A" or "B", as per plan, (See general note).
(2)	Item I-22	Subbase, Regular grading
(3)	Item B-19	7" (unless otherwise shown) Aggregate Base Course, as per plan.
(4)	Item B-21	3" Waterproofed Aggregate Base Course
		See note in Proposal. Thickness is design thickness as described in Sec. B-21.01.
(5)	Item T-31	Bituminous Surface Treatment using 0.008 cu.yd. No. 6 aggregate per sq.yd. and 0.25 gal. bituminous material per sq.yd. (See note in Proposal).
(6)	Item I-1	6" Pipe, Class I-3 in fill and in earth cut, Class I-3 Sec.M-6.4(h) in bedrock.
(7)		Item special drainage connection, using No. 6 aggregate (See note in Proposal).
(8)	Item T-71	10"Reinforced Portland Cement Concrete Pavement.
(9)		Standard Longitudinal Joint.
(10)	Item L-9	Seeding and Protecting as per plan.
(11)	Item I-15	Guard Rail, Steel Beam, Standard Type (Deep).

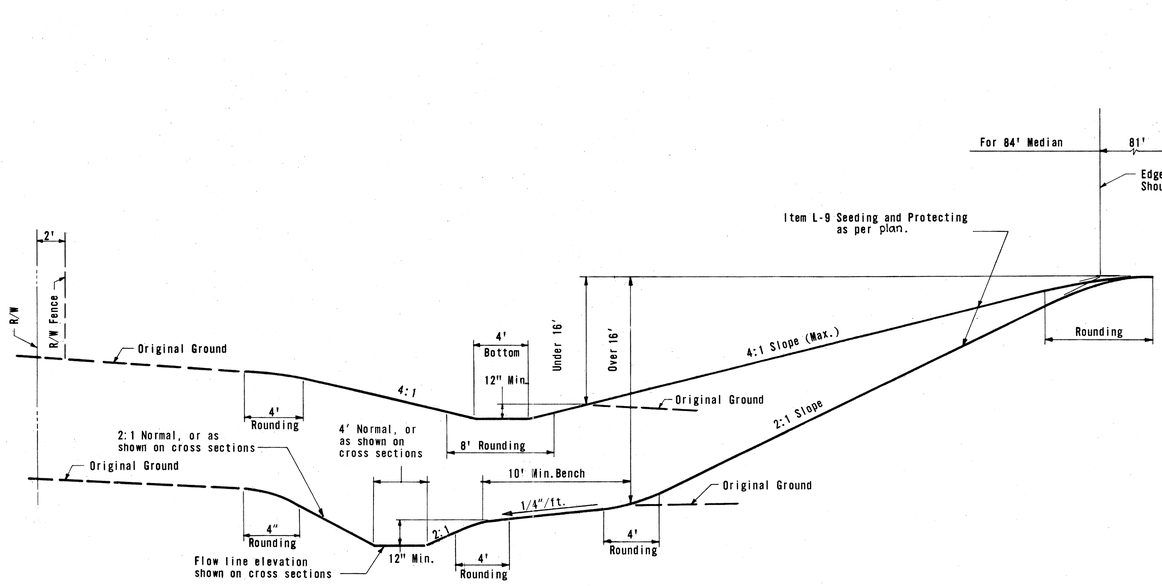
TYPICAL SECTIONS

MEDINA COUNTY
SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

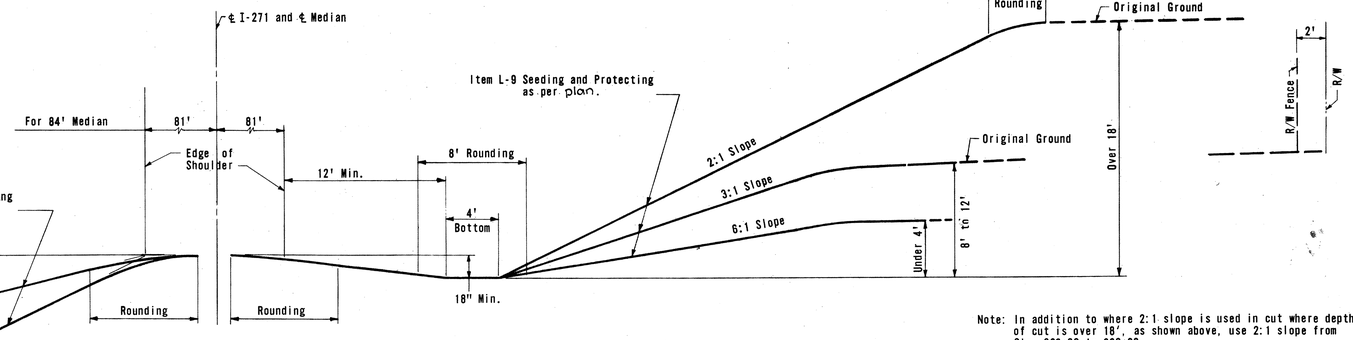
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)225	

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Scale : 3/16" = 1'-0"



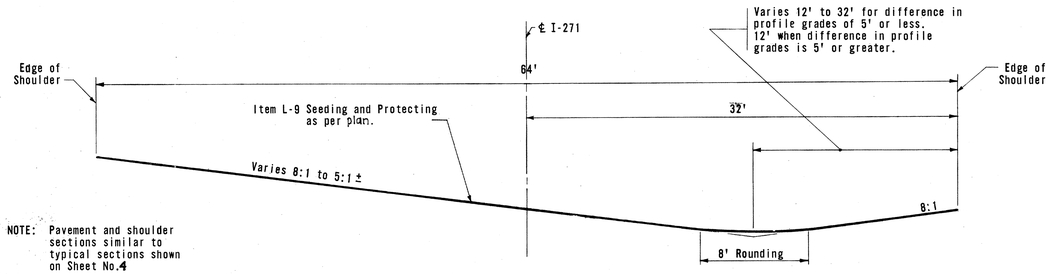
FILL SECTION



CUT SECTION

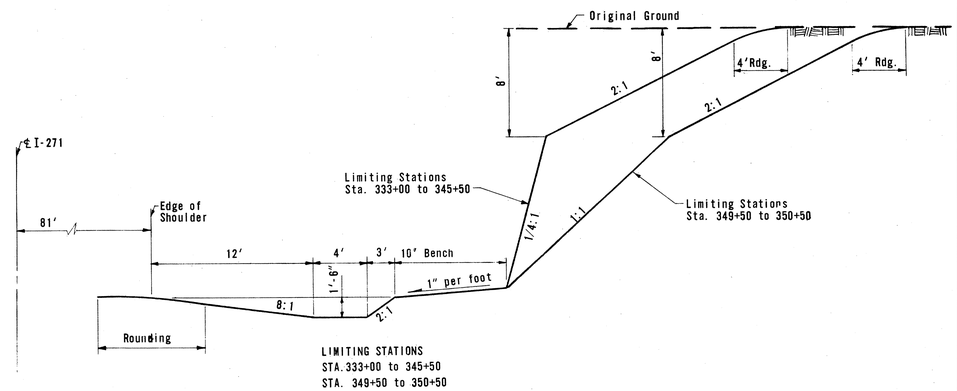
Note: In addition to where 2:1 slope is used in cut where depth of cut is over 18', as shown above, use 2:1 slope from Sta. 323+00 to 330+00.

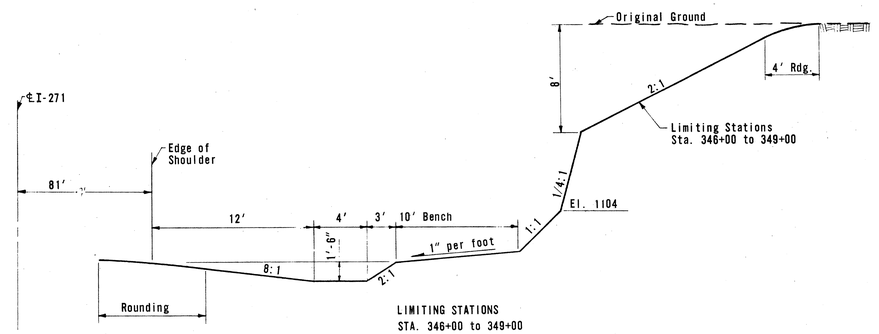
SLOPE TREATMENT



NOTE: Pavement and shoulder sections similar to typical sections shown on Sheet No.4

MEDIAN TREATMENT
FOR
VERTICALLY SEPARATED ROADWAYS
(84' Median)





CUT SLOPE TREATMENT IN ROCK

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-2716(14)225	

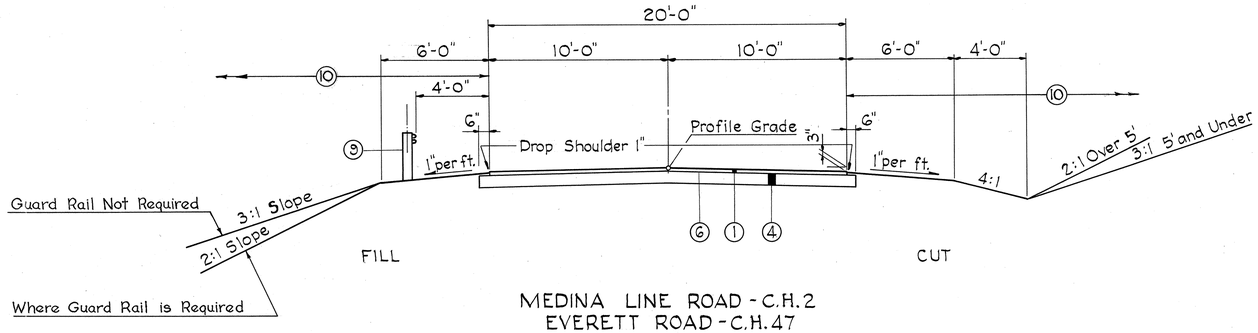
6
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MEDINA COUNTY
SUMMIT COUNTY
MED - 271 - 4.53
SUM - 271 - 0.00

TYPICAL SECTIONS

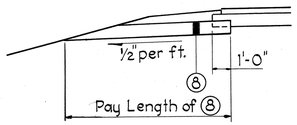
TYPE T-35 ON B-19

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

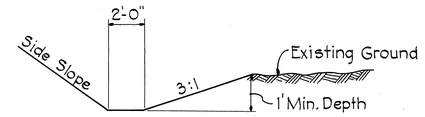


MEDINA LINE ROAD - C.H.2
EVERETT ROAD - C.H.47

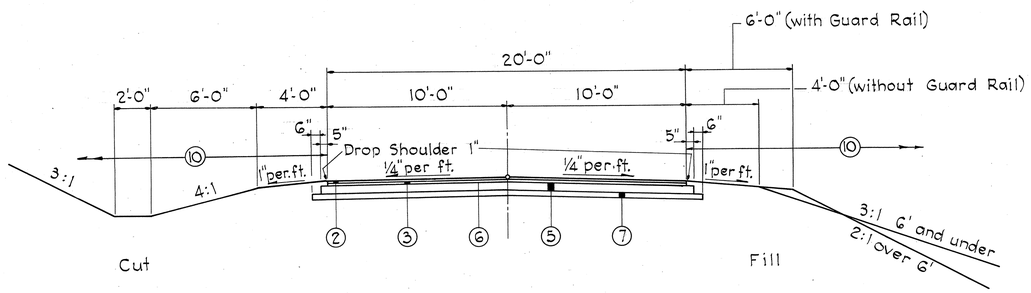
LIMITING STATIONS
C.H.2 - Sta. 0+80 to 5+89.74 (Begin Approach Slab)
Sta. 9+69.16 (End Approach Slab) to 16+25
C.H.47 - Sta. 2+00 to 5+47.51 (Begin Approach Slab)
Sta. 11+30.39 (End Approach Slab) to 12+50



SUBGRADE DRAINAGE
AT PAVEMENT EDGES



DETAIL
TOE OF FILL DITCH
FOR ALL COUNTY ROADS



STATE ROAD - C.R.44

LIMITING STATIONS
C.R.44 - Sta. 44+50 to 48+33.25 (Begin Approach Slab)
Sta. 51+72.75 (End Approach Slab) to 52+40.

LEGEND

(1) Item T-35 - *2" Asphaltic Concrete Surface Course Type C (85-100) (2-1" Courses)

(2) Item T-35 - *1" Asphaltic Concrete Surface Course Type C (85-100)

(3) Item B-35 - *1" Asphaltic Concrete Leveling Course (85-100)

(4) Item B-19 - 8" Aggregate Base Course, as per plan.

(5) Item B-19 - 5" Aggregate Base Course, as per plan.

(6) Item T-30 - Bituminous Prime Coat, Sec. M-5.1, RT-2 or RT-3 applied at the rate of 0.40 gal. per sq. yds.

(7) Item I-22 - 4" Subbase, Regular Grading

(8) Item I-9 - Stone Underdrain, No. 2

(9) Item I-5 - Guard Rail, Steel Beam, Standard Type (Deep)

(10) Item L-9 - Seeding and Protecting as per plan.

* Thickness is design thickness as described in Sec. T-35.01 and Sec. B-35.01 respectively.

Note Details of shoulder slopes and ditches not shown are to conform with Standard Drawing R1-1 unless otherwise shown on Cross Sections.

MEDINA COUNTY
SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)225	

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GENERAL NOTES

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

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

FIELD OFFICE: The Contractor shall, in addition to the requirements of 105.152 provide a suitable field office having a minimum of 500 sq. ft. of floor space. The Contractor shall have a telephone installed and maintained in this field office during the constuction of this project.

The Contractor shall also provide & install wiring and outlets suitable for connecting electric lights and office equipment in the field office and provide 110-volt alternating current to the office during the entire period of construction of this project. The Contractor shall also provide and maintain sanitary provisions as per 107.06.

Field office shall be situated so that it can remain during the life of the Contract unless otherwise authorized by the Engineer.
All of the above is included in the Lump sum price bid for Field Office

SANITARY FLOW INTO HIGHWAY DRAINAGE SYSTEMS: This plan makes no provision for connecting, nor shall the Engineer or Contractor connect, any existing or new drainage into the highway drainage system when such drains carry flow from any plumbing fixtures including floor drains and sink drains or drains from livestock lots or barns or polluted water of any kind. Existing pipe carrying flow which comes within the category outlined above shall be plugged with class E concrete at the right-of-way line. Payment for said plugging shall be included in the unit price bid for Item 203 Excavation".

CONSTRUCTION LAYOUT STAKES: See note in Proposal describing the work included in this lump sum item.

TEMPORARY CONSTRUCTION: The Contractor's attention is directed to the fact that at the beginning and end of this contract it may be necessary to provide temporary drainage ditches, underdrain outlets and other temporary construction until such items on adjacent contracts are constructed. Measurement and payment for the above will be made in accordance with the respective bid items.

SPRING DRAINS: For Detail of Springs, see Sheet Nº 127. The following quantities have been provided for Constructing Spring Drains:

Item 605 6" Pipe Underdrain as per plan, 707.06 or 707.12	= 50 Lin. Ft.
Item 605 Aggregate for Spring Drains as per plan	= 12 Lin. Ft.

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, the 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 Item 203 Excavation including embankment construction.

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

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.

CONNECTIONS TO EXISTING PIPE: At places where the plans provide for proposed drainage pipe to be connected to existing pipes, it shall be the responsibility of the Contractor to locate the existing pipe both as to line and grade before he starts to lay the proposed pipe. The cost of this operation shall be included in the unit price bid for the pertinent 603 conduit item.

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.

UTILITIES: At least 2 working days before breaking ground, the Contractor shall notify all Public Service Corporations having wire, poles, pipe, conduits, manholes or other structures that may be affected by this operation including all structures which are affected and not shown on these plans. 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.

EXPANSION AND CONTRACTION JOINTS: Although specific locations of certain expansion and contraction joints have been detailed on this plan, no waiver of the specifications is intended. Provision of expansion joints at all major structures and the maximum spacing between contraction joints shall in all cases be in accordance with Standard Construction Drawings and the Specification.

ITEM 605 AGGREGATE DRAINS: Aggregate drains shall be placed at fifty-foot intervals, staggered, on each side of normal crowned sections and at twenty-five foot intervals on the low side only of superelevated sections, except where Item 605 Pipe Underdrains have been provided.

PART WIDTH CONSTRUCTION: Because of the possibility of building portions of this project 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 304 and 310 courses. This shall be accomplished by building the 304 and 310 courses, placed with the first portion of the pavement built, at least eighteen inches beyond the centerline and by surfacing no closer than eighteen inches to this edge of the above courses. When the second portion of the pavement is built, at least twelve inches 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 built. Payment for this operation shall be included in the unit prices bid for the pertinent pavement items.

REMOVAL OF TREES AND STUMPS: All trees and stumps specifically marked for removal within the construction limits of this project shall be removed under the lump sum price bid for Item 201 Clearing and Grubbing, except that those trees for which protection and preservation work is indicated elsewhere in these plans shall not be removed.

The following is an approximate estimate of the number of trees and stumps to be removed.

SIZES	No. TREES	No. STUMPS
12" - 18"	1,588	42
18" - 24"	427	22
24" - 30"	70	13
30" - 36"	7	—
36" - 42"	17	2
42" - 48"	—	—
Over 48"	—	—

The above estimate is approximate and the State of Ohio reserves the right to order the removal of additional trees or stumps outside of the limits of construction but within the right-of-way and/or easement lines. Payment for the removal of these additional trees or stumps shall be included in the lump sum price bid for Item 201 Clearing and Grubbing.

All elm trees, regardless of size and location shall be removed from the right-of-way.

SPECIFICATIONS: All items throughout the plans that are indicative of the 1963 Construction and Material Specifications are to be used for reference purposes only. This project shall be constructed in accordance with the requirements of the 1965 Construction and Material Specifications. The cross references to the 1965 Specifications are shown on the General Summary Sheet No. 12.

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GENERAL NOTES

ESTIMATED QUANTITIES: Specific locations and usage of estimated quantities set up on this plan to be used "as directed by the Engineer" shall be made a matter of record by incorporation into the final change order governing completion of this project. No such quantities shall be ordered until approved by the Engineer.

CENTERLINE REFERENCE MONUMENTS: Monuments shall be constructed of Class "C" concrete poured in a circular hole eight (8) inches in diameter and forty-four (44) inches in depth. Top of concrete shall be finished at a depth of two (2) inches below ground level and the upper six (6) inch portion of the concrete shall be formed. A one-half (½) inch Brass Rod six (6) inches long shall be embedded in the wet concrete as directed by the Engineer to mark the centerline and station.

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 guard rail shall not exceed 1:20.

203 BORROW, USING GRANULAR MATERIAL: An estimated quantity of 203 Borrow, Using Granular Material, has been included in the Plans to be used as directed by the Engineer. This material should be placed in lifts not to exceed 2 feet in thickness and should be carried to an elevation of 1 foot above water level, if water is present. Granular material furnished for this item should be as specified under 203.02 of the Construction and Material Specifications, except that not less than 75%, by weight, of the grains or particles should be retained on a No. 200 sieve. Specification requirements relating to scalping are to be waived in areas where this treatment is employed.

FARM DRAINS: All farm drains which are encountered during construction shall be provided with unobstructed outlets under the direction of the Engineer. Existing collectors which are located below the roadway ditch elevations and which cross the roadway shall be replaced within the construction limits by Item 603 Conduit, Type "B" with Class "B" Bedding.

Existing collectors and isolated farm drains which are encountered above the elevation of the roadway ditches shall be outletted into the roadway ditch by 603 Type "E" Conduit. The optimum outlet elevation shall be, if possible, one foot above the flowline elevation of the ditch. Lateral tile fields which cross the roadway shall be intercepted by 603 Type "E" Conduit and carried in a longitudinal direction to an adequate outlet or roadway crossing.

The location, type, size and grade of required replacements shall be determined by the Engineer during construction and payment shall be made on final measurements.

The following estimated quantities have been included in the general summary for the work noted above:

Item I-1-6" Pipe, Class B-1 - 100 Lin. Ft.
Item I-1-8" Pipe, Class B-1 - 300 Lin. Ft.
Item I-1-10" Pipe, Class B-1 - 300 Lin. Ft.
Item I-1-6" Pipe, Class H-2 - 400 Lin. Ft.
Item I-1-8" Pipe, Class H-2 - 400 Lin. Ft.
Item I-1-10" Pipe, Class H-2 - 400 Lin Ft.
Item I-1-6" Pipe, Class F-4 - 50 Lin Ft.
Item I-1-8" Pipe, Class F-4 - 50 Lin Ft.
Item I-1-10" Pipe Class F-4 - 50 Lin. Ft.

(Note: Only those drains which are free of sewage or polluted water of any kind may be connected into the highway drainage system).

ITEM 310 SUBBASE, GRADING "A" OR "B" AS PER PLAN: Material for this item shall meet the requirements of grading "A" or "B" of 310.02 except that for either grading, no more than 10% of the material shall pass a № 200 sieve after all operations of placing and compacting have been completed. The 310 subbase shall be carried under all bridge approach slabs.

ITEM 203 PROOF ROLLING

An estimated quantity for this item has been provided in the General Summary for use in proof rolling of subgrade on the mainline and ramp pavements, and for paved shoulders, in accordance with Supplemental Specification 801.

ITEM 304 AGGREGATE BASE In lieu of the requirements of Sec. 304.02 material for this item shall be either crushed lime stone, slag, or slacker aggregate All other provisions of 304 shall remain in effect.

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

1. Everett Rd. - Sta. 14+85 on Lt.
2. Everett Rd. - Sta. 0+50 on Rt.
3. Medina Line Rd. - Sta. 16+25 on Lt.

Sign details shall be as specified on Standard Drawing FACI-1, "Code M-55(1)-120(2)," and the signs shall be erected in accordance with Standard Drawing FACI-2. Additional requirements shall be in accordance with notes in the proposal.

UNDERDRAIN: Transitioning underdrain from shallow to deep underdrain is classified as deep underdrain.

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GENERAL NOTES

SEEDING AND MULCHING: QUANTITIES FOR SEEDING ARE CALCULATED FOR THE SOIL AREAS DEFINED AS FOLLOWS;

INTERSTATE HIGHWAY, BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT.

OTHER HIGHWAYS BETWEEN THE WORK LIMITS.

SEED SHALL BE SOWN AT RATE OF 3 POUNDS PER 1000 SQ. 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
20%	KENTUCKY BLUEGRASS
5%	RED TOP
5%	ALSIKE CLOVER

TRAFFIC MAINTENANCE:

1. MINIMUM PROVISIONS FOR MAINTENANCE OF TRAFFIC ON PUBLIC HIGHWAYS AFFECTED BY THIS PROJECT SHALL BE AS FOLLOWS:

   a. C.R. 44 (STATE ROAD): THE CONTRACTOR MAY CLOSE THIS ROAD TO THROUGH TRAFFIC DURING CONSTRUCTION FOR A MAXIMUM OF 120 CALENDAR DAYS.

   b. C.H. 47 (EVERETT ROAD): TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BY USE OF EITHER THE EXISTING PAVEMENT, THE PROPOSED PAVEMENT, OR A TEMPORARY RUNAROUND USING CLASS B PAVEMENT.

   c. C.H. 2 (MEDINA LINE ROAD) AND C.H. 194 (SOUTHERN ROAD): C.H. 2 MAY BE CLOSED TO THRU TRAFFIC FOR A PERIOD NOT TO EXCEED 120 CALENDAR DAYS. DURING THIS PERIOD C.H. 194 ON PROJECT SUM-271-0.83 SHALL REMAIN OPEN TO TRAFFIC. THIS SEQUENCE OF CONSTRUCTION MAY BE REVERSED BY MUTUAL AGREEMENT BETWEEN THE TWO CONTRACTORS AND AT THE DIRECTION OF THE ENGINEER.

2. LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH THE PROVISIONS OF ITEM 614, AND SHALL INCLUDE THE MAINTENANCE OF ACCESS TO ALL PROPERTIES AFFECTED BY ANY OF THE CONSTRUCTION OPERATIONS. TRAFFIC COMPACTED SURFACE, ITEM 410 AND WATER OR CALCIUM CHLORIDE FOR DUST CONTROL, ITEM 616, SHALL BE APPLIED ON TEMPORARY ROADWAYS, LANES AND/OR DRIVEWAYS FOR THE MAINTENANCE OF LOCAL TRAFFIC AS DIRECTED, AND IN AMOUNTS REQUESTED BY THE ENGINEER.

   ESTIMATED QUANTITIES ARE AS FOLLOWS:

   ITEM 616 WATER FOR DUST CONTROL - 10 M. GAL.
   ITEM 410 TRAFFIC COMPACTED SURFACE - 400 CU. YDS.
   ITEM 616 CALCIUM CHLORIDE FOR DUST CONTROL - 8 TONS

3. THE CONTRACTOR SHALL, IN ADDITION TO THE GENERAL PROVISIONS OF 614 ON THIS PROJECT, PERFORM THE FOLLOWING:

   a. PROVIDE, ERECT AND MAINTAIN STANDARD 40" x 20" SIZE "ROAD CLOSED" SIGNS, SIGN SUPPORTS AND LIGHTS AT THE FOLLOWING LOCATIONS DURING PERIODS IN WHICH THE AFFECTED ROAD IS CLOSED TO TRAFFIC:

      (1) C.R. 44 (STATE ROAD): AT THE INTERSECTIONS WITH C.R. 37 (REMSEN ROAD) AND C.R. 135 (LEDGE ROAD).

      (2) C.H. 2 (MEDINA LINE ROAD): AT THE INTERSECTIONS WITH C.H. 47 (EVERETT ROAD) AND T.R. 185 (HAWKINS ROAD).

   b. PROVIDE LIGHTS, BARRICADES AND DANGER AND ADVANCE WARNING SIGNS AT THE LOCATIONS SHOWN ABOVE IN ACCORDANCE WITH 614.

4. BARRICADES AND GATES SHALL BE AS DETAILED ON STANDARD CONSTRUCTION DRAWING NO. MC-3.

5. SIGN SUPPORTS AND LIGHTS FOR "ROAD CLOSED" SIGNS SHALL BE AS DETAILED IN THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".

6. PAYMENT FOR PROVIDING, ERECTING, MAINTAINING AND REMOVING BARRICADES, GATES, LIGHTS, SIGNS AND SIGN SUPPORTS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR "ITEM 614, MAINTAINING TRAFFIC",

7. IF THE CONTRACTOR SO ELECTS, HE MAY SUBMIT ALTERNATE METHODS FOR THE MAINTENANCE OF TRAFFIC PROVIDED THE INTENT OF THE ABOVE PROVISIONS IS FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS THEREFROM. NO ALTERNATE PLAN SHALL BE PLACED INTO EFFECT UNTIL APPROVAL IN WRITING HAS BEEN GRANTED BY THE DIRECTOR,

STANDARD DRAWINGS CROSS REFERENCE

1965	1963
BP-1	B-T-70-71
BP-2	B-T-71-R
BP-3	L.J. No.1
BP-4	T.J.
BP-5	T-35
BP-6	DR-1
FACI-1	FACI-1
FACI-2	FACI-2
MC-1	RI-1
MC-3	G-7.07
MC-4	I-1
MC-5	I-14 G
HW-2	HW No.2
HW-3	HW No.3
HW-E	HW-E
CB2-2-A&B	I-8CB22-A&B
CB-4	I-8CB No.4
CB-5	I-8CB No.5
GR-1	I-15 No.1
GR-2A	I-15 No.2A
GR-6	I-15 No.6
L-1	L-1
SD-53	SD-53
AS-1-54	AS-1-54

SUPPLEMENTAL SPECIFICATIONS

1965	1963
816	I-129
801	CE 101.04
620 *	I-127
621 *	I-125
806	B-335
808	I-128
811	S-307
815	I-128
825	—

*General Specifications

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GENERAL SUMMARY (1963 SPECIFICATIONS)

| ITEM | SHEET NUMBERS | | |

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GENERAL SUMMARY

ITEM	SHEET NUMBERS																										LINE NO.	ITEM	QUANTITY	UNIT	TYPE CODE 7221 DESCRIPTION
	7	8	9	13	15	16	17	18	19	20	21	22	24	26	27	28	29	30	31	32	33	105	108	109	112	113	134					
																											85				**DRAINAGE, cont.**
																											86				*These Specials included in pertinent pipe 603 or 605*
I-5					2	4	2	4	1	4		4	3	2	5	2	4			4							87	I-5	41	Each	6" Pipe Specials, Class I-3
I-5																								2			88	I-5	2	Each	12" Pipe Specials, Class F-4
I-5													2		2						2						89	I-5	6	Each	15" Pipe Specials, Class F-4
																											90				
I-5										1																	91	I-5	1	Each	15"×48" Saddle Type Pipe Special, Sec. M 6.6(b) Tee, Cl. A-1, as per plan
																											92				
I-8							1	1	1	1		2	2	3	1	1	1	2		1	1						93	I-8	18	Each	Standard Nº 4 Catch Basin
I-8														1													94	I-8	1	Each	Standard Nº 5 Catch Basin
I-8																		1						1			95	I-8	2	Each	Standard Nº 2-2B Catch Basin
																											96				
I-9	12																										97	I-9	12	Lin. Ft.	Stone Underdrain Nº 1, as per plan
I-9				800																							98	I-9	800	Lin. Ft.	Stone Underdrain Nº 2
																											99				
I-10					40	21	2	2	23	11		2	34	3	18	41	13	2		2		39	10	2	8	8		100	I-10	-281-	Cu. Yds.	Dumped Rock Channel Protection
I-10					41					98			38		27		42					7					101	I-10	253	Sq. Yds.	Riprap using 6" Reinforced Concrete Slab
																											102				
I-14												700	235														103	I-14	935	Lin. Ft.	Standard Paved Gutter Type 1, Modified, 4' wide
I-14															200						350						104	I-14	550	Lin. Ft.	Standard Paved Gutter Type 1, 4' Wide
																											105				
																											106				
																											107				
																											108				**PAVEMENT**
																											109				
B-19				11,802																		3	30		13	14.5	110	B-19	11,993	Cu. Yds.	Aggregate Base Course, as per plan
B-21				4,818																							111	B-21	4,818	Cu. Yds.	Waterproofed Aggregate Base Course, as per plan
B-35				28																							112	B-35	28	Cu. Yds.	Asphaltic Concrete Leveling Course (85-100)
																											113				
T-30				1,941																							114	T-30	1,941	Gals.	Bituminous Prime Coat, Sec. M-57, RT-2 or RT-3
T-31				14,193																							115	T-31	14,193	Gals.	Bituminous Surface Treatment - Bituminous Material, as per plan
T-31				454																							116	T-31	454	Cu. Yds.	Bituminous Surface Treatment - Nº 6 Aggregate
T-35				230																		1	8		5	20	117	T-35	264	Cu. Yds.	Asphaltic Concrete Surface Course - Type C (85-100)
																											118				
T-71				97,116																							119	T-71	97,116	Sq. Yds.	10" Reinforced Portland Cement Concrete Pavement
																											120				
I-7																						133	67	67	133		121	I-7	400	Sq. Yds.	Reinforced Concrete Approach Slabs (T=13")
I-22				21,222																							122	I-22	21,222	Cu. Yds.	Subbase, Grading "A" or "B", as per plan
I-22				7,749																							123	I-22	7,749	Cu. Yds.	Subbase,
																											124				
Special				2,408																							125	Special	2,408	Cu. Yds.	Drainage connection, Nº 6 Aggregate
																											126				
																											127				
																											128				
																											129				
																											130				**BUILDING REMOVAL**
																											131				
																											132				
																											133				
E-10																											134	E-10	Lump	Lump	Removal of three 1 Sty. Frame Cottages, One 1½ Sty. Frame Cottage,
																											135				Eight Frame Sheds, Parcel 54 WL.
E-10																											136	E-10	Lump	Lump	Removal of 1-1 Sty. Frame Cottage, Parcel 57-WL
E-10																											137	E-10	Lump	Lump	Removal of 1-1 Sty. Frame & Stone Res.; Parcel 58-WL.
E-10																											138	E-10	Lump	Lump	Removal of 1-1 Sty. Frame Res.; 2 Frame Sheds; Parcel 66-WL.
																											139				
																											140				
																											141				**TRAFFIC CONTROL**
I-127				175																							142	I-127	175	Each	Delineators, Type A-1, Post Mounted
I-127				12																							143	I-127	12	Each	Delineators, Type C-2, Post Mounted
I-127				1																							144	I-127	1	Each	Delineator, Type C-3, Post Mounted
I-125				13.64																							145	I-125	13.64	Miles	4" Edge Lines
I-125				0.01																							146	I-125	0.01	Miles	4" Lane Lines
I-125				2.56																							147	I-125	2.56	Miles	6" Center Lines
I-129																										56	148	I-129	56	Lin. Ft.	Ground Mounted Sign Support, 12 WF 27
I-129																										64	149	I-129	64	Lin. Ft.	Ground Mounted Sign Support, 6 B 8.5
I-129																										3.3	150	I-129	3.3	Cu. Yds.	Concrete for Ground Mounted Sign Support Foundations
I-129																										247	151	I-129	247	Sq. Ft.	Sign Erection as per plan
																											152				
																											153				
																											154				
																											155				
																											156				**STRUCTURES OVER 20 FOOT SPAN**
																											157				
																											158				For Estimated Quantities
																											159				
																											160				MED-271-0579 See Sheet Nº 137
																											161				SUM-271-0019 See Sheet Nº 143
																											162				SUM-271-0046 See Sheet Nº 153
																											163				
																											164		Lump	Lump	*Field Office*
I-3																											165	I-3	Lump	Lump	Maintaining Traffic
																											166		Lump	Lump	Construction Stakes
																											167				
																											168				

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GENERAL SUMMARY (1965 SPECIFICATIONS)

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Construction Type Code 7221 (except as noted)

FROM SH. 10,11 Line No.	ITEM	QUANT.	UNIT	DESCRIPTION
1				ROADWAY
6	201	Lump	Lump	Clearing and Grubbing
8	202	77	Lin. Ft.	Pipe Removed, 15" and Under
9	202	46	Lin. Ft.	Pipe Removed, Over 15"
29	202	Lump	Lump	Existing Structures Removed
3, 37	203	1,235,242	Cu. Yds.	Excavation Including Embankment Construction
4	203	158,196	Sq. Yds.	Subgrade Preparation
5	203	52,064	Cu. Yds.	Borrow
10	203	400	Cu. Yds.	Borrow, Using Granular Material as per plan
7	203	5,689	M. Gals.	Water
12	203	77	Hours	Proof Rolling
31	410	400	Cu. Yds.	Traffic Compacted Surface, Type A or B
16	604	27	Each	Centerline Reference Monument, as per plan
17	604	7	Each	Monument Assembly
18	606	12,587.5	Lin. Ft.	Guard Rail, Type 4
22	607	35,044	Lin. Ft.	Fence, Type 4.7
28	615	5,436	Sq. Yds.	Class B, Temporary Pavement
28	615	Lump	Lump	Temporary Roads
14	616	8	Tons	Calcium Chloride
15	616	10	M. Gals.	Water
				EROSION CONTROL (Type Code Y005)
23	659	541,934	Sq. Yds.	Seeding and Mulching as per plan
24	659	50.56	Tons	Commercial Fertilizer (12-12-12)
25	660	230	Sq. Yds.	Sodding for Special Berm and Slope Protection
27	660	10,401	Sq. Yds.	Sodding
26	667	6,491	Sq. Yds.	Jute Matting
35				
100	601	285	Cu. Yds.	Dumped Rock Channel Protection
101	601	253	Sq. Yds.	Riprap Using 6" Reinforced Concrete Slab as per plan
103	601	935	Lin. Ft.	Standard Type 1-4 Paved Gutter, Modified as per plan
104	601	550	Lin. Ft.	Standard Type 1-4 Paved Gutter
				DRAINAGE
82	602	214.4	Cu. Yds.	Concrete Masonry
39	603	76	Lin. Ft.	18" Conduit, Type A, with Class B Bedding, 706.01, 706.02, or 706.08
40	603	96	Lin. Ft.	18" Conduit, Type A, 706.02 Class IV, with Class B Bedding
41	603	88	Lin. Ft.	24" Conduit, Type A, 706.02 Class III, with Class B Bedding or 706.08
42	603	92	Lin. Ft.	36" Conduit, Type A, 706.02 Class III, 706.08, or 707.05, with Class B Bedding
43	603	538	Lin. Ft.	42" Conduit, Type A, 706.02 Class III or 707.05, with Class B Bedding
45	603	234	Lin. Ft.	48" Conduit, Type A, 706.02, with Class B Bedding
46, 91	603	380	Lin. Ft.	48" Conduit, Type A, 706.02 Class III, with Class B Bedding
47	603	290	Lin. Ft.	48" Conduit, Type A, 707.05, 8 Gage, Shop Elongated, with Class B Bedding
48	603	378	Lin. Ft.	54" Conduit, Type A, 707.05, 8 Gage, Shop Elongated, with Class B Bedding
50	603	846	Lin. Ft.	54" Conduit, Type A, 706.02 Class V or 707.05 8 Gage, with Class B Bedding
52	603	246	Lin. Ft.	84" Conduit, Type A, 706.03 Class V with Class B Bedding
54	603	406	Lin. Ft.	108" Conduit, Type A, 707.03, 5-3 Gage, with Class B Bedding
56	603	100	Lin. Ft.	6" Conduit, Type B, with Class B Bedding
57	603	300	Lin. Ft.	8" Conduit, Type B, with Class B Bedding
58	603	300	Lin. Ft.	10" Conduit, Type B, with Class B Bedding
59	603	52	Lin. Ft.	12" Conduit, Type B, with Class B Bedding
60	603	1,128	Lin. Ft.	15" Conduit, Type B, with Class B Bedding
61	603	92	Lin. Ft.	18" Conduit, Type B, with Class B Bedding
62	603	156	Lin. Ft.	24" Conduit, Type B, with Class B Bedding, 706.02 Class III, or 706.08
64	603	267	Lin. Ft.	12" Conduit, Type D,
66	603	754	Lin. Ft.	15" Conduit, Type C, with Class B Bedding
67	603	500	Lin. Ft.	18" Conduit, Type C, with Class B Bedding

FROM SH. 10,11 Line No.	ITEM	QUANT.	UNIT	DESCRIPTION
				DRAINAGE (Cont'd.)
69	603	160	Lin. Ft.	6" Conduit, Type F
70	603	290	Lin. Ft.	8" Conduit, Type F
71	603	50	Lin. Ft.	10" Conduit, Type F
72, 88	603	106	Lin. Ft.	12" Conduit, Type F
73, 89	603	180	Lin. Ft.	15" Conduit, Type F
75	603	400	Lin. Ft.	6" Conduit, Type E
76	603	400	Lin. Ft.	8" Conduit, Type E
77	603	400	Lin. Ft.	10" Conduit, Type E
95	604	2	Each	Standard No. 2-2-B Catch Basin
93	604	18	Each	Standard No. 4 Catch Basin
94	604	1	Each	Standard No. 5 Catch Basin
78	605	16,717	Lin. Ft.	6" Shallow Pipe Underdrains
79	605	14,713	Lin. Ft.	6" Deep Pipe Underdrains
80	605	6,139	Lin. Ft.	6" Pipe Underdrains, 707.06 or 707.12
81	605	50	Lin. Ft.	6" Pipe Underdrains, as per plan, 707.06 or 707.12
97	605	12	Lin. Ft.	Aggregate Drains for Springs as per plan
98	605	800	Lin. Ft.	Aggregate Drains
108				PAVEMENT
111	301	4,818	Cu. Yds.	Bituminous Aggregate Base: 702.01 (85-100), or 702.09 RT-12, As per plan
110	304	11,993	Cu. Yds.	Aggregate Base, As Per Plan
7	304	59	M. Gals.	Water
122	310	21,222	Cu. Yds.	Subbase, Grading A or B as per plan
123	310	7,749	Cu. Yds.	Subbase
112	402	28	Cu. Yds.	Asphalt Concrete (85-100)
117	404	264	Cu. Yds.	Asphalt Concrete (85-100)
114	408	1,941	Gals.	Bituminous Prime Coat, 702.09 RT-2 or RT-3
115	409	14,193	Gals.	Seal Coat Bituminous Material as per plan
116	409	454	Cu. Yds.	Seal Coat Cover Aggregate No. 8
119	451	97,116	Sq. Yds.	10" Reinforced Portland Cement Concrete Pavement
121	611	400	Sq. Yds.	Reinforced Concrete Approach Slabs (T=13")
125	Special	2,408	Cu. Yds.	Drainage Connection, Using No. 8 Aggregate
130				BUILDING REMOVAL
134, 135	202	Lump	Lump	Parcel 54 WL; Removal of Three 1 Story Frame Cottages, One 1½ Story Frame Cottage, Eight Frame Sheds
136	202	Lump	Lump	Parcel 57 WL; Removal of One 1 Story Frame Cottage
137	202	Lump	Lump	Parcel 58 WL; Removal of One 1 Story Frame and Stone Residence
138	202	Lump	Lump	Parcel 66 WL; Removal of One 1 Story Frame Residence, Two Frame Sheds.
147				TRAFFIC CONTROL
151	815	247	Sq. Ft.	Sign Erection as per plan
148	816	56	Lin. Ft.	Ground Mounted Sign Supports, 12 WF 27
149	816	64	Lin. Ft.	Ground Mounted Sign Supports, 6 B 8.5
150	816	3.3	Cu. Yds.	Concrete Foundation for Ground Mounted Sign Supports
~~142~~	~~620~~	~~175~~	~~Each~~	~~MONO-DIRECTIONAL DELINEATOR, TYPE B-1, POST MOUNTED~~
~~143~~	~~620~~	~~12~~	~~Each~~	~~MONO-DIRECTIONAL DELINEATOR, TYPE C-2, POST MOUNTED~~
144	620	1	Each	Mono-directional Delineator, Type C-3, Post Mounted
145	621	13.64	Miles	4" Edge Lines
146	621	0.01	Miles	4" Lane Lines
147	621	2.56	Miles	6" Lane Lines
156, 158				STRUCTURES OVER 20 FT. SPAN (For estimated Quantities)
160				MED-271-0579 See Sheet No. 137
161				SUM-271-0019 See Sheet No. 143
162				SUM-271-0046 See Sheet No. 153
164		Lump	Lump	Field Office
165	614	Lump	Lump	Maintaining Traffic
166		Lump	Lump	Construction Layout Stakes

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CALCULATIONS

EARTHWORK CU. YDS.					SEEDING
LINE FROM	SHEET TO	EXCAVATION	EMBANKMENT	EMBANKMENT +16%	SQ. YDS.
262+00	272+00				
272+00	282+00	9,251	5,252	6,092	18,846
282+00	293+00	2,331	51,005	59,166	24,257
293+00	304+00	42,513	3,376	3,916	27,606
304+00	314+00	12,577	15,387	17,849	23,320
314+00	324+00	14,097	28,543	33,110	24,302
324+00	334+00	70,150	5,041	5,848	26,376
334+00	344+00	222,253			29,312
344+00	358+00	168,374	95,733	111,050	49,431
358+00	374+00	7,896	266,958	309,671	58,990
374+00	394+00	129,865	104,883	121,664	59,445
394+00	404+00	59,859	12,950	15,022	26,945
404+00	414+00	4,631	79,936	92,726	32,128
414+00	425+00	271,121	2,087	2,421	33,359
425+00	435+00	204,164	1,153	1,337	29,928
435+00	445+00	4,098	183,885	213,307	35,988
445+00	454+00	4,636	222,609	258,226	31,484
C.R.44		579	4,733	5,490	- 3,164
C.H. 2		1,436	20,424	23,692	10,454
C.H.47		1,832	4,765	5,527	3,827
TOTALS		1,232,263	1,108,720	1,286,114	551,162
				Deduct for Sod	-10,631
				To Summary use	541,934

EARTHWORK BALANCE
Roadway Excavation = 1,232,263 Cu. Yds.
E-3 Channel Excavation = 1,787 Cu. Yds. (60% Available)
1,234,050 Cu. Yds.
1,286,114 (Embankment) - 1,234,050 = 52,064 Cu. Yds. (Borrow Required)

B-19 AGGREGATE BASE COURSE, as per plan
N.B.L. & S.B.L. 272+00 to 446+00 = 10,299 Cu. Yds.
Standard U-Turn Median Openings (2) = 212
C.R.44 - State Rd. = 148
C.H. 2 - Medina Line Rd. = 620
C.H.47 - Everett Rd. = 242
Rest Area Tapers = 73
Total = 11,802 Cu. Yds.

B-21 WATERPROOFED AGGREGATE BASE COURSE
N.B.L. & S.B.L. 272+00 to 446+00 = 4,560 Cu. Yds.
Standard U-Turn Median Openings (2) = 85
Rest Area Tapers = 173
Total = 4,818 Cu. Yds.

B-35 1" ASPHALTIC CONCRETE LEVELING COURSE (85-100)
C.R.44 - State Rd. 28 Cu. Yds.

E-1 COMPACTED SUBGRADE
Main Line = 152,000 Sq. Yds.
Standard U-Turn Median Opening = 422
C.R.44 = 2,720
C.H. 2 = 1,090
C.H.47 = 1,093
Rest Area Tapers = 871
Total = 158,196 Sq. Yds.

E-11 WATER
Embankment = 1,108,720 Cu. Yds.
I-22 = 28,971
B-19 = 11,802
Total = 1,149,493 Cu. Yds.
1,149,493 Cu. Yds. × 0.005 = 5,748 M. Gal.

L-9 COMMERCIAL FERTILIZER 12-12-12
(551,162 + 10,631) × 9 × 0.01 ÷ 1,000 = 50.56 Tons

I-125 EDGE AND CENTER LINES I-271
4" Edge Lines = 13.64 Mi.
6" Center Lines = 2.56 Mi.
4" Lane Lines = 0.01 Mi.

I-8 CENTERLINE REFERENCE MONUMENTS

SHEET Nº	CENTERLINE REFERENCE MONUMENTS	MONUMENT ASSEMBLIES
158	15	2
159	12	5
TOTAL	27	7

I-9 STONE UNDERDRAIN Nº2

LOCATION	LIN. FT.
C.R.44	160
C.H. 2	460
C.H.47	180
TOTAL	800

I-127 DELINEATORS

SIDE	STATION FROM	STATION TO	SPACING	TYPE A-1 POST MTD.	C-3 Post Mounted	C-2 Post Mounted
L	272+00	to 444+00	200	87		
R	272+00	to 446+00	200	88		
~~L~~	~~445+00~~	~~to 452+00~~	~~100~~		1	7
~~R~~	~~447+20~~	~~to 453+20~~	~~100~~			5
TOTALS			175	1		12

T-30 BITUMINOUS PRIME COAT, applied at rate of 0.40 Gal. / Sq. Yd.
C.R.44 - State Rd. = 417 Gals.
C.H. 2 - Medina Line Rd. = 1,088
C.H.47 - Everett Rd. = 436
Total = 1,941 Gals.

T-35 ASPHALTIC CONCRETE SURFACE COURSE - TYPE C (85-100) 2-1" courses
C.H. 2 - Medina Line Rd. = 144 Cu. Yds.
C.H.47 - Everett Rd. = 58
Total = 202 Cu. Yds.

T-35 ASPHALTIC CONCRETE SURFACE COURSE - TYPE C (85-100) 1-1" course
C.R.44 - State Rd. = 28 Cu. Yds.

T-71 10" REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
N.B.L. & S.B.L. 272+00 to 452+00 = 18,000 Lin. Ft.
18,000 × 24 × 2 ÷ 9 = 96,000 Sq. Yds.
Rest Area Tapers = 1,116
Total 97,116 Sq. Yds.

SSCE-101.04 COMPACTION USING HEAVY PNEUMATIC-TIRED ROLLER
Main Line = 152,000
Standard U-Turn Median Opening = 422
Rest Area Tapers = 871
153,293
153,293 ÷ 2,000 Sq. Yds./Hr. = 76.6; Use 77 Hrs.

SPECIAL DRAINAGE CONNECTION Nº 6 AGGREGATE
Main Line = 2,408 Cu. Yds.

T-31 BITUMINOUS SURFACE TREATMENT - BITUMINOUS MATERIAL
N.B.L. & S.B.L. 54,716 Sq. Yds.
U-Turn Median Openings (2) 1,016
Rest Area Tapers 1,038
56,770 Sq. Yds. × 0.25 Gal./Sq. Yd. = 14,193 Gallons

T-31 BITUMINOUS SURFACE TREATMENT - AGGREGATE
56,770 Sq. Yds. × 0.008 Cu. Yd./Sq. Yd. = 454 Cu. Yd.

I-22 SUBBASE, GRADING "A" OR "B" AS PER PLAN

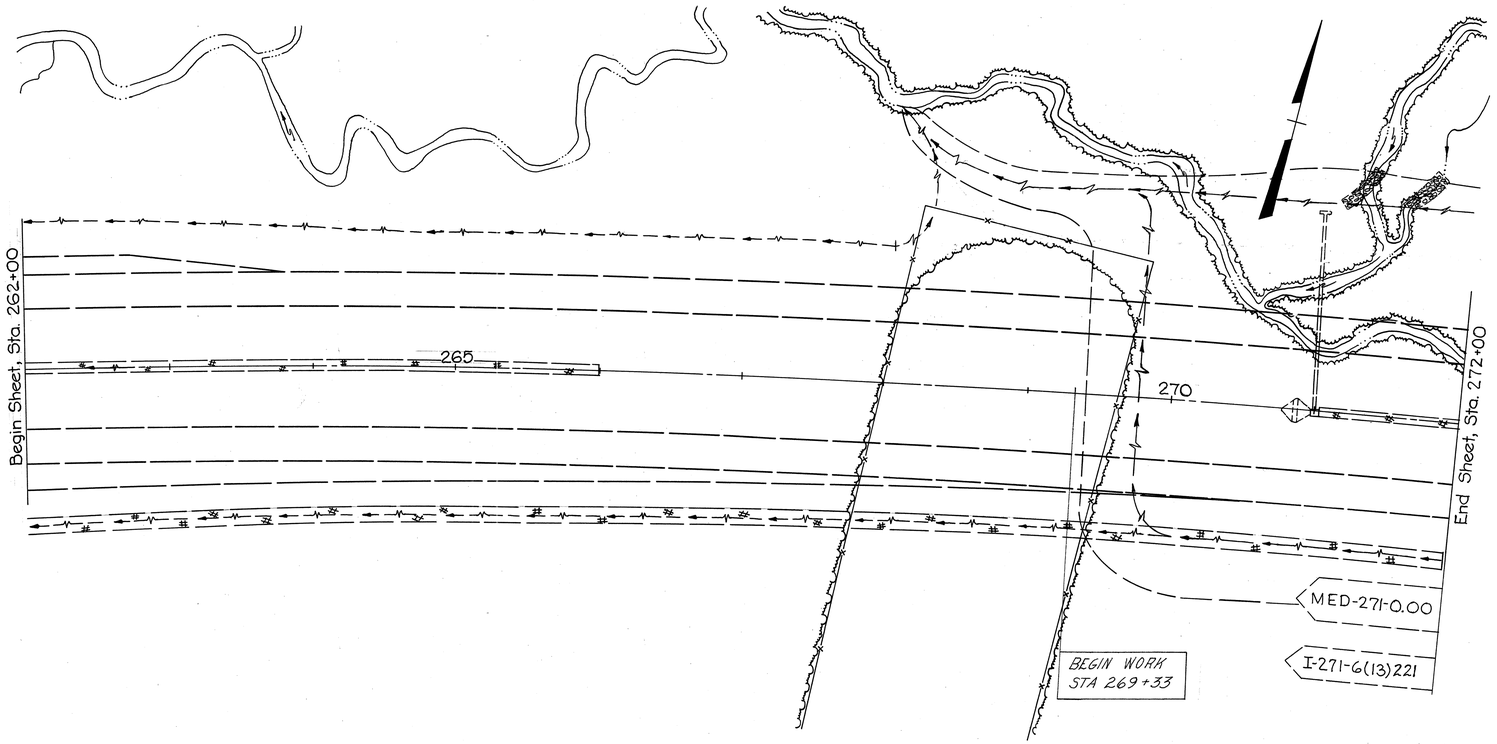
N.B.L. & S.B.L. 272+00 to 278+64	748	Cu. Yds.
N.B.L. & S.B.L. 278+64 to 280+39	198	
N.B.L. & S.B.L. 280+39 to 323+00	4,728	
N.B.L. & S.B.L. 323+00 to 351+00	4,038	
N.B.L. & S.B.L. 351+00 to 452+00	11,207	
Approach Slabs	33	
Rest Area Tapers	270	
TOTAL	*21,222*	*Cu. Yds.*

I-22 SUBBASE, REGULAR GRADING

N.B.L. & S.B.L. 272+00 to 278+64	139	Cu. Yds.
N.B.L. & S.B.L. {278+64 to 323+00		
{351+00 to 452+00	3,295	
N.B.L. & S.B.L. 323+00 to 351+00	4,119	
C.R. 44	121	
Standard U-Turn Median Opening (3")	96	
Rest Area Tapers	86	
TOTAL	*7,749*	*Cu. Yds.*

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SUPERELEVATION TABLE

D_C=0°-40' Rt. Max. Superelevation for 24'=0.50' S=0.021'/'

STATION	SOUTHBOUND LANES OUTER EDGE	SOUTHBOUND LANES CENTER LINE	PROFILE GRADE	NORTHBOUND LANES CENTER LINE	NORTHBOUND LANES OUTER EDGE
272+00	1209.50	1209.25	1209.00	1208.75	1208.50
272+25	1210.00	1209.75	1209.50	1209.25	1209.00
272+50	1210.50	1210.25	1210.00	1209.75	1209.50
272+75	1211.00	1210.75	1210.50	1210.25	1210.00
273+00	1211.50	1211.25	1211.00	1210.75	1210.50
273+25	1212.00	1211.75	1211.49	1211.24	1210.99
273+50	1212.48	1212.23	1211.97	1211.72	1211.47
273+75	1212.94	1212.69	1212.44	1212.19	1211.94
274+00	1213.40	1213.15	1212.89	1212.64	1212.39
274+25	1213.84	1213.59	1213.33	1213.08	1212.83
274+50	1214.28	1214.01	1213.76	1213.51	1213.26
274+75	1214.68	1214.43	1214.17	1213.92	1213.67
275+00	1215.08	1214.83	1214.57	1214.32	1214.07
275+25	1215.47	1215.21	1214.96	1214.71	1214.46
275+50	1215.84	1215.59	1215.33	1215.08	1214.83
275+75	1216.20	1215.95	1215.70	1215.44	1215.19
276+00	1216.55	1216.29	1216.04	1215.79	1215.54
276+25	1216.88	1216.63	1216.38	1216.12	1215.87
276+50	1217.20	1216.95	1216.70	1216.44	1216.19
276+75	1217.51	1217.26	1217.00	1216.75	1216.50
277+00	1217.80	1217.55	1217.30	1217.05	1216.79
277+25	1218.08	1217.83	1217.58	1217.33	1217.07
277+50	1218.35	1218.10	1217.84	1217.59	1217.34
277+75	1218.60	1218.35	1218.10	1217.85	1217.59
278+00	1218.84	1218.59	1218.34	1218.08	1217.84
278+25	1219.07	1218.82	1218.57	1218.31	1218.06

D_C=0°-40' Rt. Max. Superelevation for 24'=0.50' S=0.021'/'

STATION	SOUTHBOUND LANES OUTER EDGE	SOUTHBOUND LANES CENTER LINE	PROFILE GRADE	NORTHBOUND LANES CENTER LINE	NORTHBOUND LANES OUTER EDGE
278+50	1219.28	1219.03	1218.78	1218.53	1218.28
278+63.46	1219.39	1219.14	1218.89	1218.64	1218.39
278+75	1219.43	1219.20	1218.96	1218.76	1218.54
278+98.17	1219.46	1219.28	1219.09	1218.90	1218.71
279+00	1219.52	1219.36	1219.17	1219.01	1218.82
279+25	1219.63	1219.53	1219.34	1219.25	1219.06
279+50	1219.72	1219.69	1219.50	1219.47	1219.28
279+63.46	1219.77	1219.77	1219.58	1219.56	1219.40
279+75	1219.81	1219.84	1219.65	1219.66	1219.49
280+00	1219.88	1219.97	1219.79	1219.88	1219.69
280+25	1219.94	1220.09	1219.91	1220.06	1219.87
280+38.46	1219.97	1220.15	1219.97	1220.15	1219.97

I-271 Sta. 262+00 to 272+00

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BEGIN PROJECT STA. 272+00

Culvert No. MED-271-4.55

Ref. P.O.C. Sta. 274+00
20" Maple
20" Beech
12" Beech
℄ I-271
Tacked Hub
32.63'
41.62'
42.36'

Ref. P.O.T. Sta. 279+13.46
8" Elm
℄ I-271
Tacked Hub
24" Beech
8" Beech
10.46'
17.22'
19.44'

LA

Width = 8'

8-D
7-D
1-D
C-1
4-D
2-D
6-D
3-D
C-1
5-D

Southbound Lane
Northbound Lane

Begin Sheet, Sta. 272+00
End Sheet, Sta. 282+00

275
Curve #3
280
N 85°-56'-38" E

P.T. 279+13.46

CURVE #3
P.I. Sta. 235+62.79
Δ = 66°-44'-37"
D = 0°-40'-00"
R = 8,594.36'
L = 10,011.54'
T = 5,660.87'
E = 1,696.82'

B.M.# E-23 Elev. 1216.03
Mine Spike in 28" Hollow Beech
300' Rt. of Sta. 279+00

(C-1) See Detail Sheet No. 130

1400' V.C.
P.V.I. 280+00
Elev. 1225.00
P.V.C. 273+00
-0.98%
+2.00%
+1.42%
+0.50%
+1.85%
+2.31%
+2.53%

48" Cl. A-1 Pipe
℄ 104' Lt. = 1203.53
℄ 100' Rt. = 1204.74

See grading note Sheet No. 14

10'-6" Cl. F-4, 39' Lt.

℄ 6" Cl. I-3, 39' Lt. = 1215.04 Sta. 279+50
℄ 6" Cl. I-3, 68' Rt. ℄ Lt. = 1209.2 Sta. 274+50
℄ 6" Cl. I-3, 68' Rt. ℄ Lt. = 1210.18 Sta. 275+15
℄ 6" Cl. I-3, 68' Rt. ℄ Lt. = 1212.80 Sta. 277+00
℄ 6" Cl. I-3, 68' Rt. ℄ Lt. = 1215.30 Sta. 282+00
℄ 6" Cl. I-3, 68' Rt. ℄ Lt. = 1208.60 Sta. 274+65
℄ 8" Cl. F-4, 98' Lt. Outlet = 1208.30 Sta. 274+65
℄ 8" Cl. F-4, 94' Rt. Outlet = 1208.30 Sta. 274+65
48" Cl. A-1 Pipe
℄ 1203.05 - 137 Lt.
℄ 1204.46 - 97 Rt.
℄ 6" Cl. I-3, 39' Lt., 68' Rt. ℄ Lt. = 1209.06 Sta. 274+40
℄ 6" Cl. I-3, 68' Rt. = 1203.00 Sta. 272+00
℄ 6" Cl. I-3, 68' Lt. = 1203.51 Sta. 272+00
℄ 6" Cl. I-3, 39' Lt. = 1204.62 Sta. 272+00

1209.00 1210.00 1211.00 1211.49 1211.97 1212.44 1212.82 1213.33 1213.76 1214.17 1214.57 1214.96 1215.33 1215.70 1216.04 1216.38 1216.70 1217.00 1217.30 1217.58 1217.84 1218.10 1218.34 1218.57 1218.78 1218.98 1219.17 1219.34 1219.50 1219.65 1219.79 1219.91 1220.01 1220.11 1220.19 1220.26 1220.31 1220.35 1220.38

1230
1220
1210
1200

1209.7 1210.5 1208.5 1211.5 1211.3 1213.2 1217.5 1220.0 1219.1 1221.5 1220.1

272 273 274 275 276 277 278 279 280 281 282

ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	I-1 Cl. A-1 Sec. M-6.6(a) 48" Lin. Ft.	I-1 Class F-3 Pipe Shallow 6' Lin. Ft.	I-1 Class F-3 Pipe Deep 6' Lin. Ft.	I-1 Class F-4 Pipe 8" Lin. Ft.	I-2 Masonry Cu. Yds.	I-5 Precast Spread Class F-3 Tee 6"-90° Each	I-10 Damped Rock Riprap Channel Protection Cu. Yds.	I-10 6" Reinf. Conc. Rip Rap Sq. Yds.	L-10 Sodding Sq. Yd.	E-3 Channel Excavation Cu. Yds.	I-1 Class F-4 Pipe 6" Lin. Ft.	SEE SHEET NO.
1-D	272+00 to 274+40	Lt.		240									10	119
2-D	272+00 to 279+60	Lt.		750										37
3-D	272+00 to 274+40	Rt.			240									
4-D	274+50 to 282+00	Lt.		185	G24	10		1						
5-D	274+50 to 282+00	Rt.		185	G81	10		1						
6-D	274+45		2.34				16.4		25	41	8	30		
7-D	276+60	Lt.							15		415			
8-D	274+47 to 279+10	Lt.												
TOTALS			2.34	1360	1545	20	16.4	2	40	41	423	30	10	10

I-271 Sta. 272+00 to 282+00

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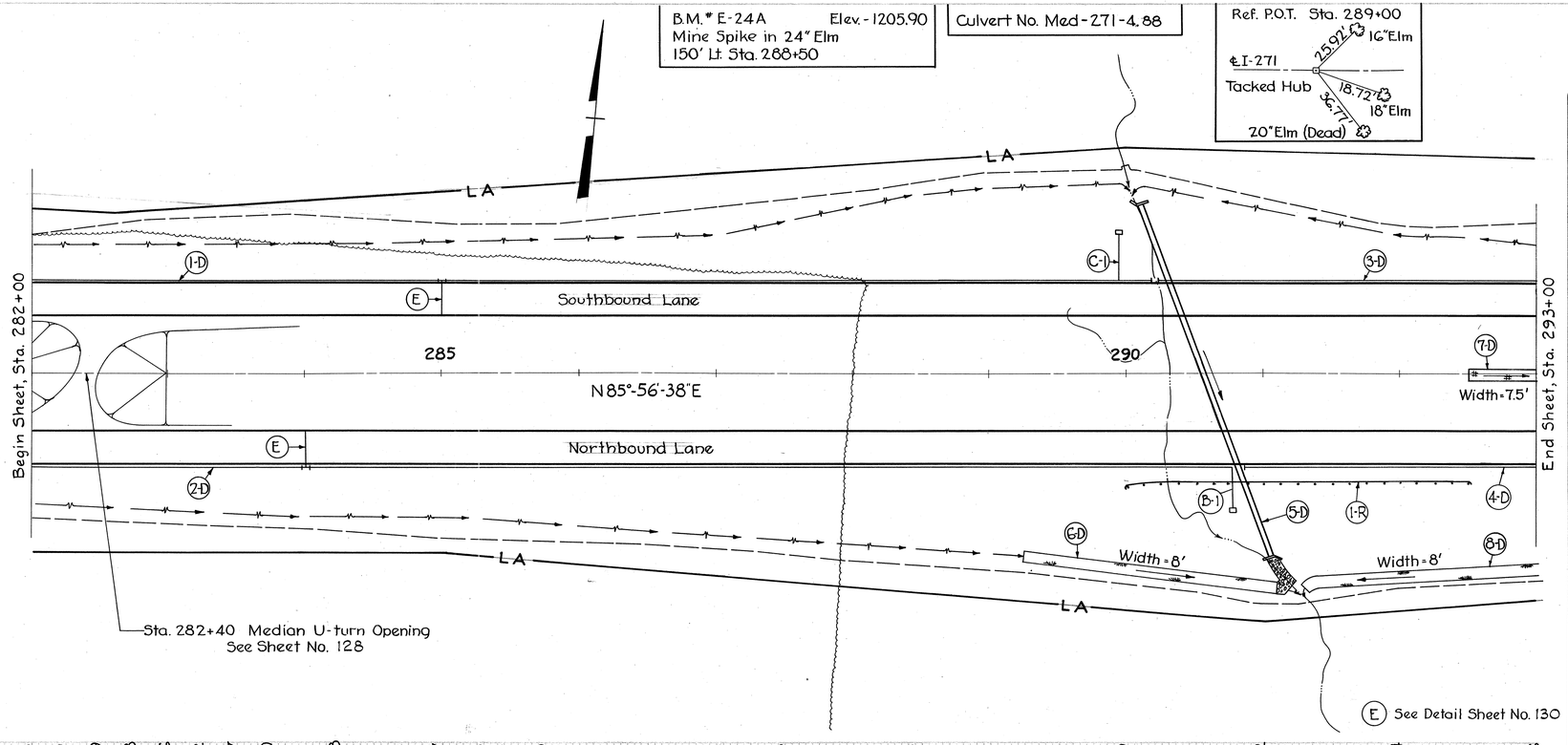
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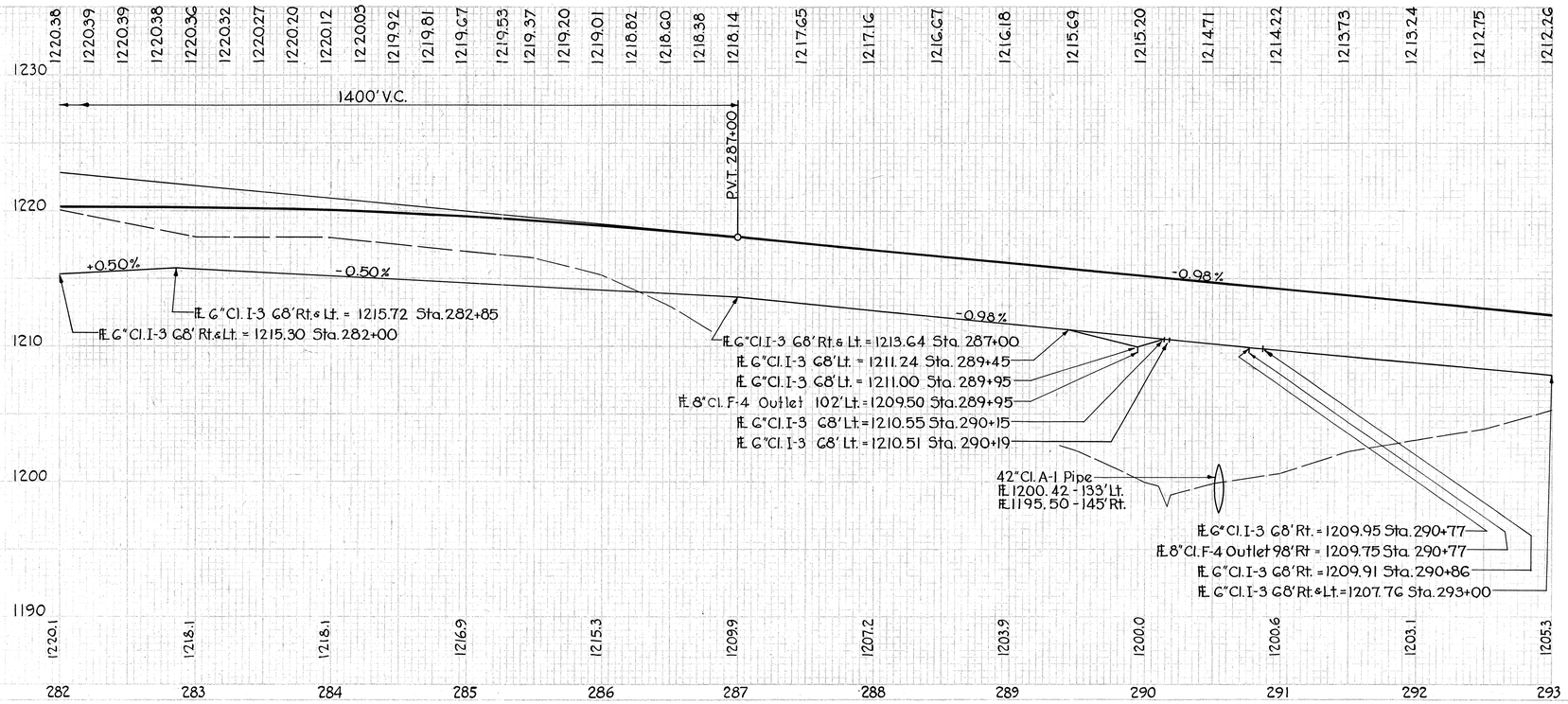
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B.M.# E-24A Elev.-1205.90
Mine Spike in 24" Elm
150' Lt. Sta. 288+50

Culvert No. Med-271-4.88

Ref. P.O.T. Sta. 289+00
25.97' 16" Elm
℄ I-271
Tacked Hub
18.72'
36.71'
18" Elm
20" Elm (Dead)





ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	I-1 Cl. A-1 Sec. M-6.40 & M-6.60 42" Lin. Ft.	I-1 Class "C" Shallow Lin. Ft.	I-1 Class I-3 6" Deep Lin. Ft.	Cl. F-4 8" Lin. Ft.	I-2 Masonry Cu. Yd.	I-5 Pipe Specials Class I-3 Bend 6"-90° Each	I-5 Pipe Specials Class I-3 Tee 6" Each	I-10 Dumped Rock Channel Protect. Cu. Yd.	L-10 Sodding Sq. Yd.	L-120 Jute Matting Sq. Yd.	I-15 Guard Rail Lin. Ft.	SEE SHEET NO.
1-D	282+00 to 290+15	Lt.		341	500	10			2					119
2-D	282+00 to 290+77	Rt.		403	500	10		1	1					
3-D	290+19 to 293+00	Lt.		281										
4-D	290+86 to 293+00	Rt.		214										
5-D	290+56	-	278				14.6			2.1	7			
6-D	289+25 to 291+10	Rt.									165	42		
7-D	292+50 to 293+00	Med.												
8-D	291+30 to 293+00	Rt.									150			
1-R	289+96 to 292+46	Rt.											250	
	TOTALS		278	1239	1000	20	14.6	1	3	21	322	42	250	

Sta. 282+00 to 293+00

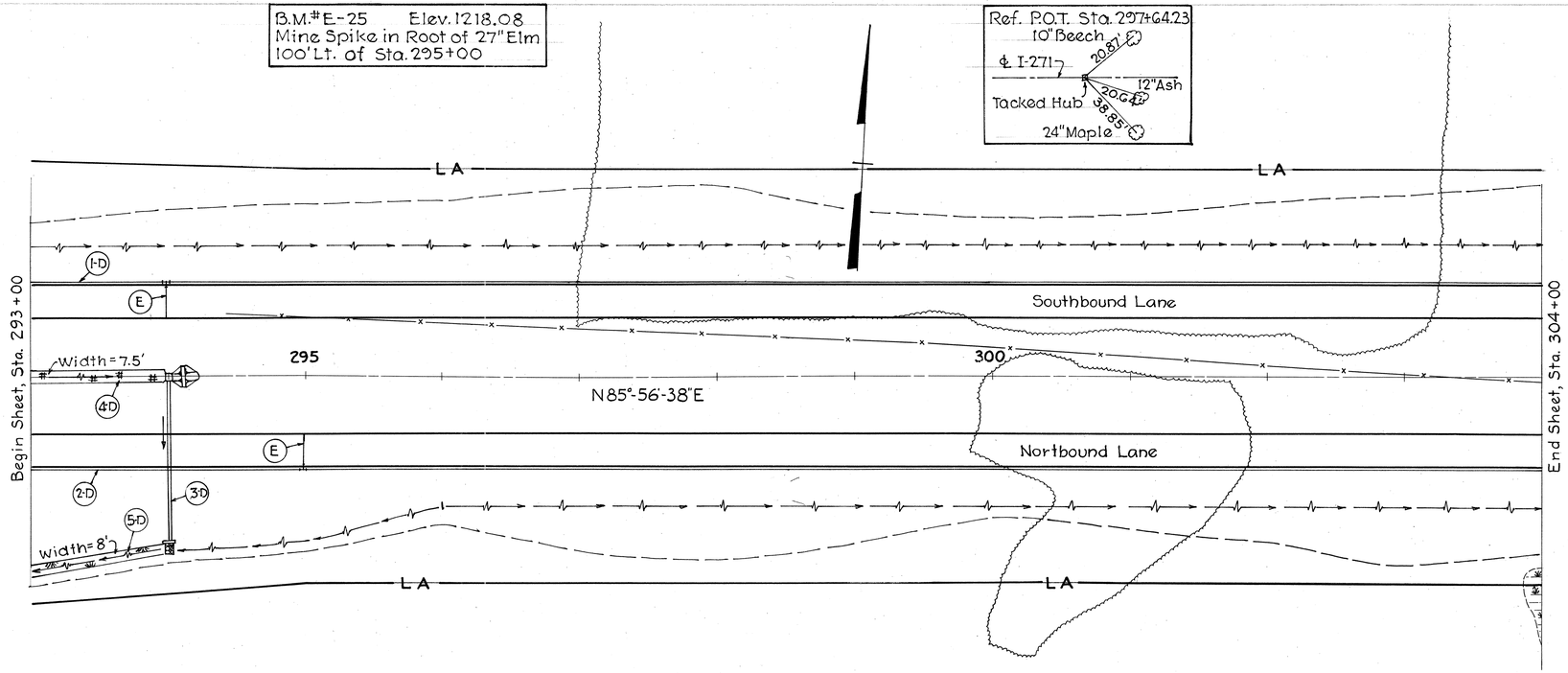
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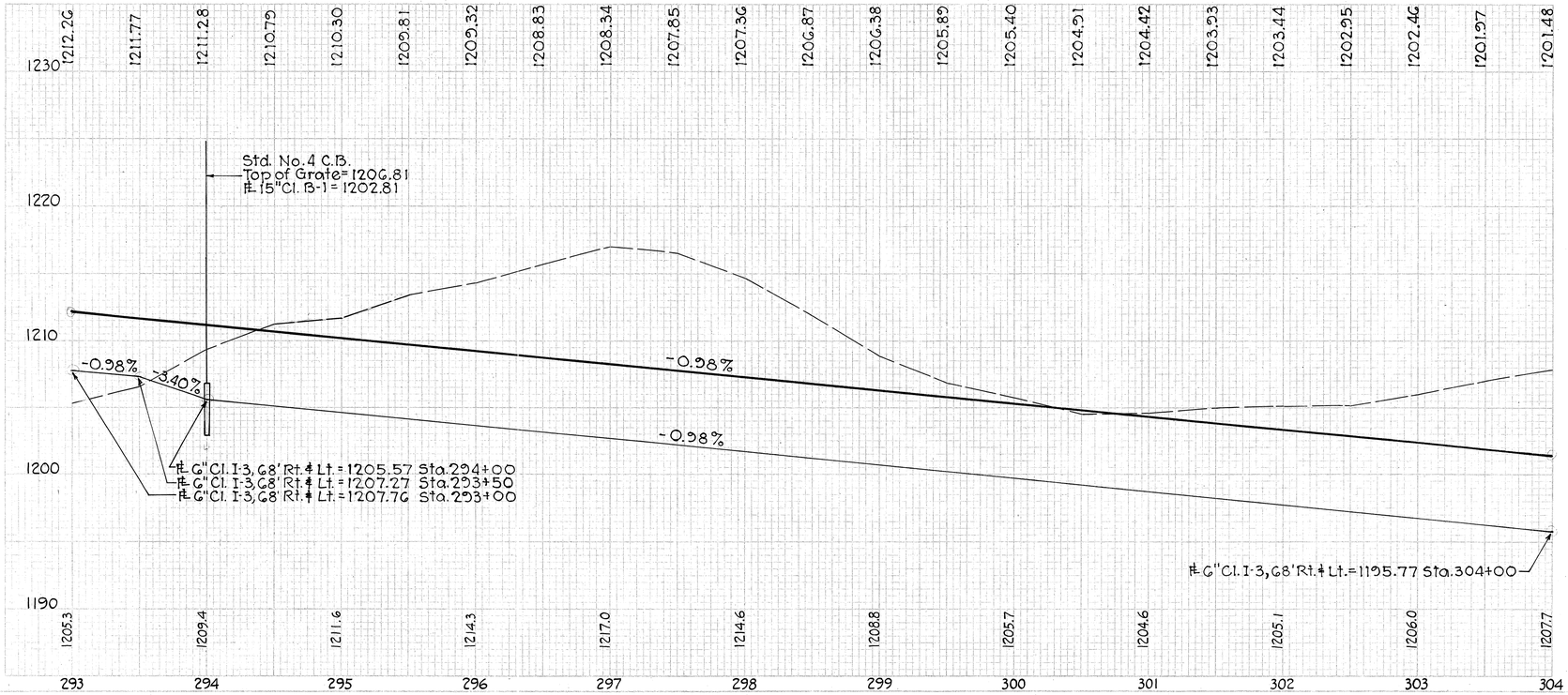
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B.M.#E-25 Elev. 1218.08
Mine Spike in Root of 27" Elm
100' Lt. of Sta. 295+00

Ref. P.O.T. Sta. 297+64.23
10" Beech
℄ I-271
20.87
12" Ash
20.64
Tacked Hub
38.55
24" Maple



(E) See Detail Sheet No. 130



Sta. 293+00 to 304+00

ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	I-1 Class B-1 Pipe 15" Lin. Ft.	I-1 Class I-3 Pipe Shallow 6' Lin. Ft.	I-1 Class I-3 Pipe Deep 6' Lin. Ft.	I-2 Masonry Cu. Yds.	I-5 Pipe Specials Class I-3 Tee 6' Each	I-5 Pipe Specials Class I-3 Cross 6' Each	I-8 Std. No. 4 C. B. Each	I-10 Dumped Rock Channel Protection Cu. Yds.	L-10 Sodding Sq. Yds.	L-120 Jute Matting Sq. Yds.
1-D	293+00 to 304+00	Lt.		50	107			1				
2-D	293+00 to 304+00	Rt.		50	107			1				
3-D	294+00 to 294+00	Rt.	120			0.3			1	2	2	83
4-D	293+00 to 294+00	Med.										
5-D	293+00 to 294+00	Rt.									89	83
TOTALS			120	100	215	0.3	2	1	1	2	91	83

SEE SHEET NO. 40

Ground Mt. Sign
See Sheet 134

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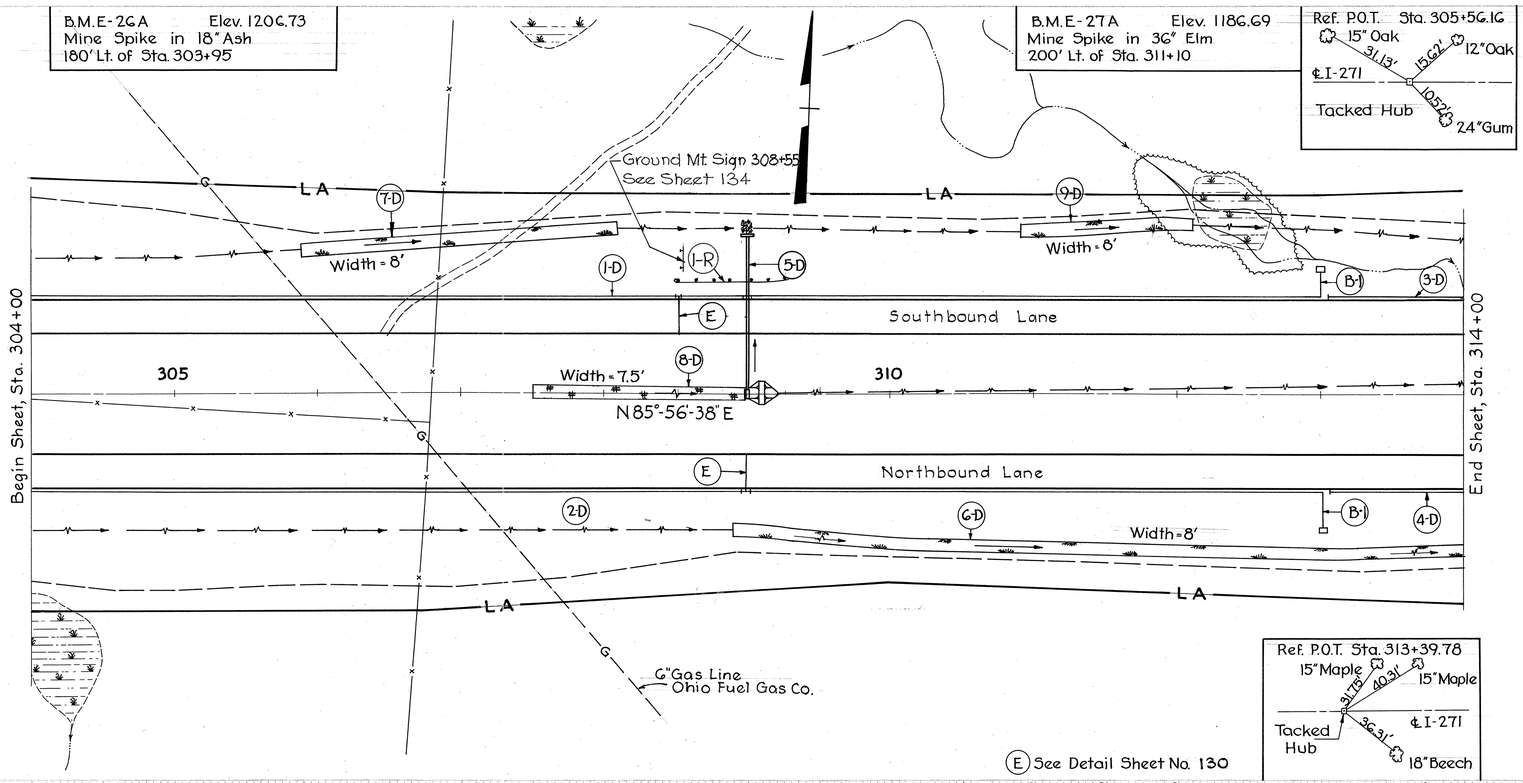
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B.M.E-26A Elev. 1206.73
Mine Spike in 18" Ash
180' Lt. of Sta. 303+95

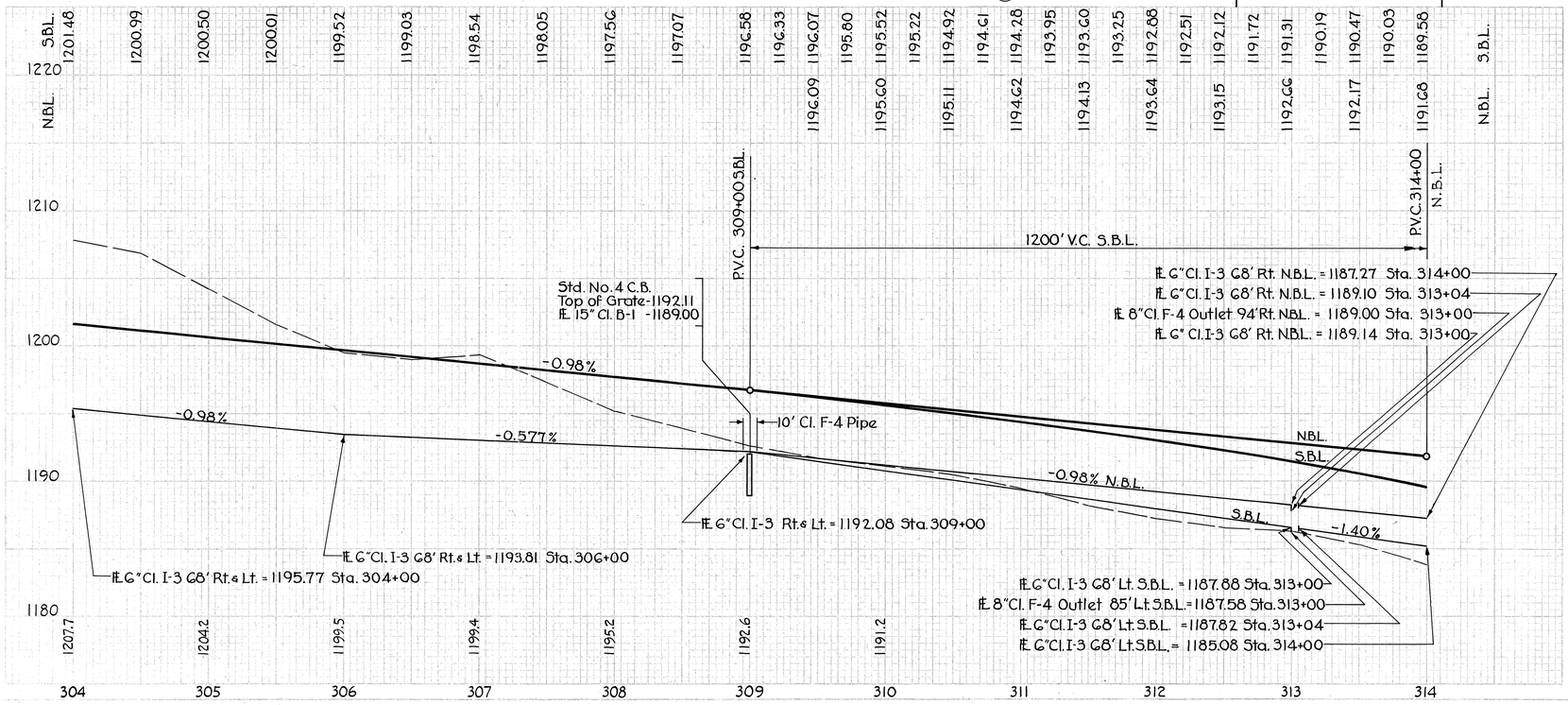
B.M.E-27A Elev. 1186.69
Mine Spike in 36" Elm
200' Lt. of Sta. 311+10

Ref. P.O.T. Sta. 305+56.16
15" Oak
31.13'
15.62'
12" Oak
℄ I-271
10.57'
Tacked Hub
24" Gum



Ⓔ See Detail Sheet No. 130

Ref. P.O.T. Sta. 313+39.78
15" Maple
31.75'
40.31'
15" Maple
℄ I-271
Tacked Hub
26.31'
18" Beech



ESTIMATED QUANTITIES

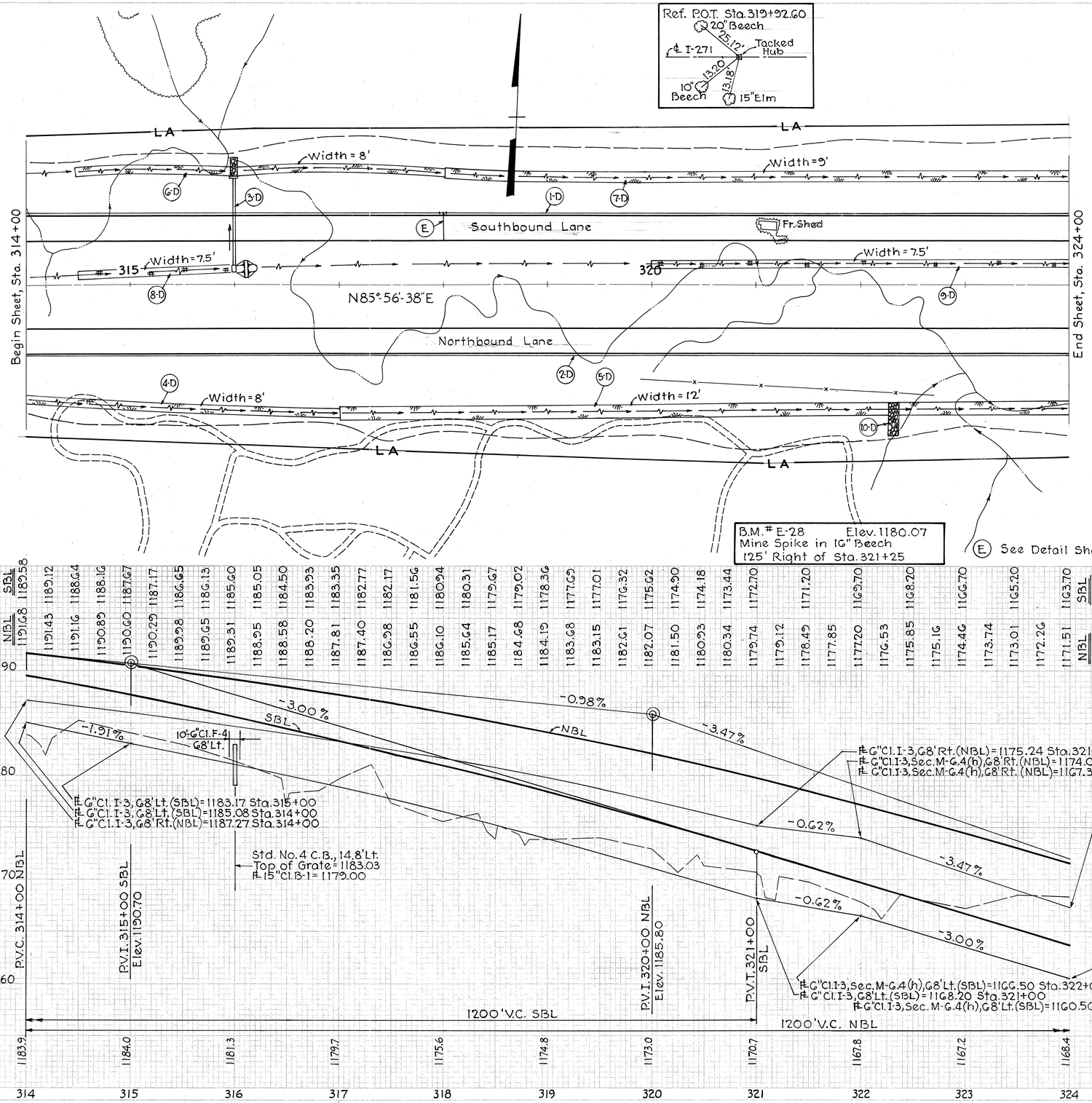
REF. NO.	STATION TO STATION	SIDE	I-1 Class B-1 Pipe 15" Lin. Ft.	I-1 Class I-3 Pipe 6" Deep Lin. Ft.	I-1 Class I-3 Pipe 6" Shallow Lin. Ft.	I-1 Class F-4 Pipe 6" Lin. Ft.	I-1 Class F-4 Pipe 8" Lin. Ft.	I-2 Masonry Cu. Yds.	I-5 Pipe Specials Class I-3 Tee 6" Each	I-5 Pipe Specials Class I-3 Bend 6"-90° Each	I-8 Std. No. 4 C.B. Each	I-10 Dumped Rock Channel Protect. Cu. Yd.	L-10 Sodding Sq. Yd.	L-120 Jute Matting Sq. Yd.	I-15 Guard Rail Lin. Ft.	SEE SHEET NO.	TOTALS
1-D	304+00 to 309+00			500	436	10	10		1	1							2
2-D	304+00 to 309+00			500	441	10	10		1	1							2
3-D	313+04 to 314+00				96												1000
4-D	313+04 to 314+00				96												1069
5-D	309+00		108					0.3	1		1	2	107	125	75	43	10
6-D	308+90 to 314+00																20
7-D	305+90 to 308+10																0.3
8-D	307+50 to 309+00																2
9-D	310+90 to 312+10																2
1-R	308+52 to 309+27	Lt.															1
TOTALS			108	1000	1069	20	10	0.3	2	2	1	2	777	125	75		

Sta. 304+00 to 314+00

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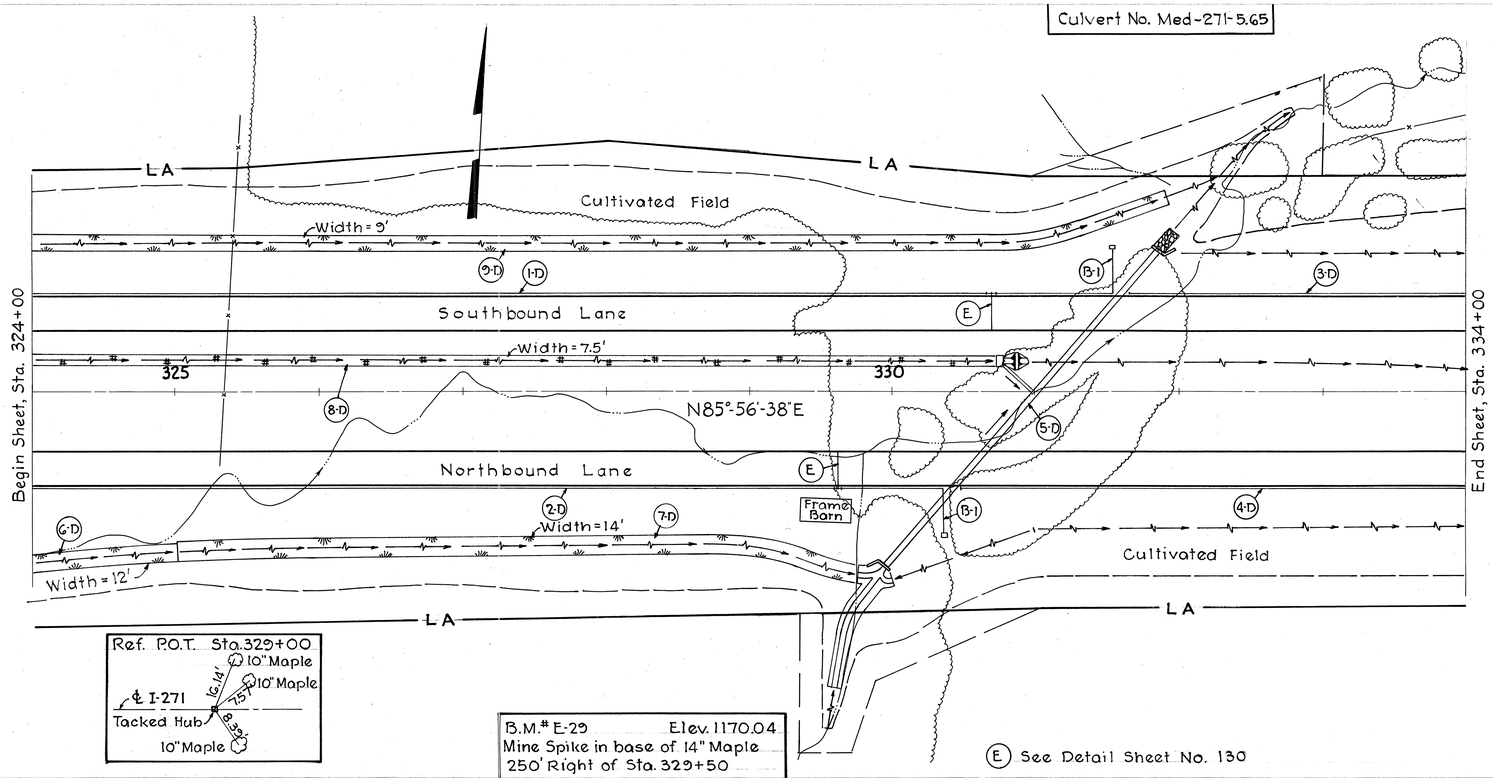


ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	I-1 Class B-1 Pipe 15" Lin. Ft.	I-1 Class F-3 Shallow G" Lin. Ft.	I-1 Class F-4 G" Lin. Ft.	I-2 Masonry Cu. Yds.	I-5 Pipe Specials Cl. I-3 Tee G" Each	I-8 Std. No. 4 C.B. Each	I-10 Dumped Rock Channel Protection Cu. Yds.	L-10 Sodding Sq. Yd.	L-120 Jute Matting Sec. M-6.4(b) G" Sq. Yd.	I-1 Class B Sec. M-6.4(b) G" Lin. Ft.
1-D	314+00 to 324+00	Lt.		826	10		1					200
2-D	314+00 to 324+00	Rt.		800								200
3-D	316+00	Lt.	86			0.3		1	4	2		
4-D	314+00 to 317+00	Rt.								267		
5-D	317+00 to 324+00	Rt.								935		
6-D	314+40 to 318+00	Lt.								320		
7-D	318+00 to 324+00	Lt.								600		
8-D	314+50 to 316+00	Med.									125	
9-D	320+00 to 324+00	Med.									333	
10-D	322+30	Rt.							15			
	TOTALS		86	1626	10	0.3	1	1	23	2124	458	400

Sta. 314+00 to 324+00

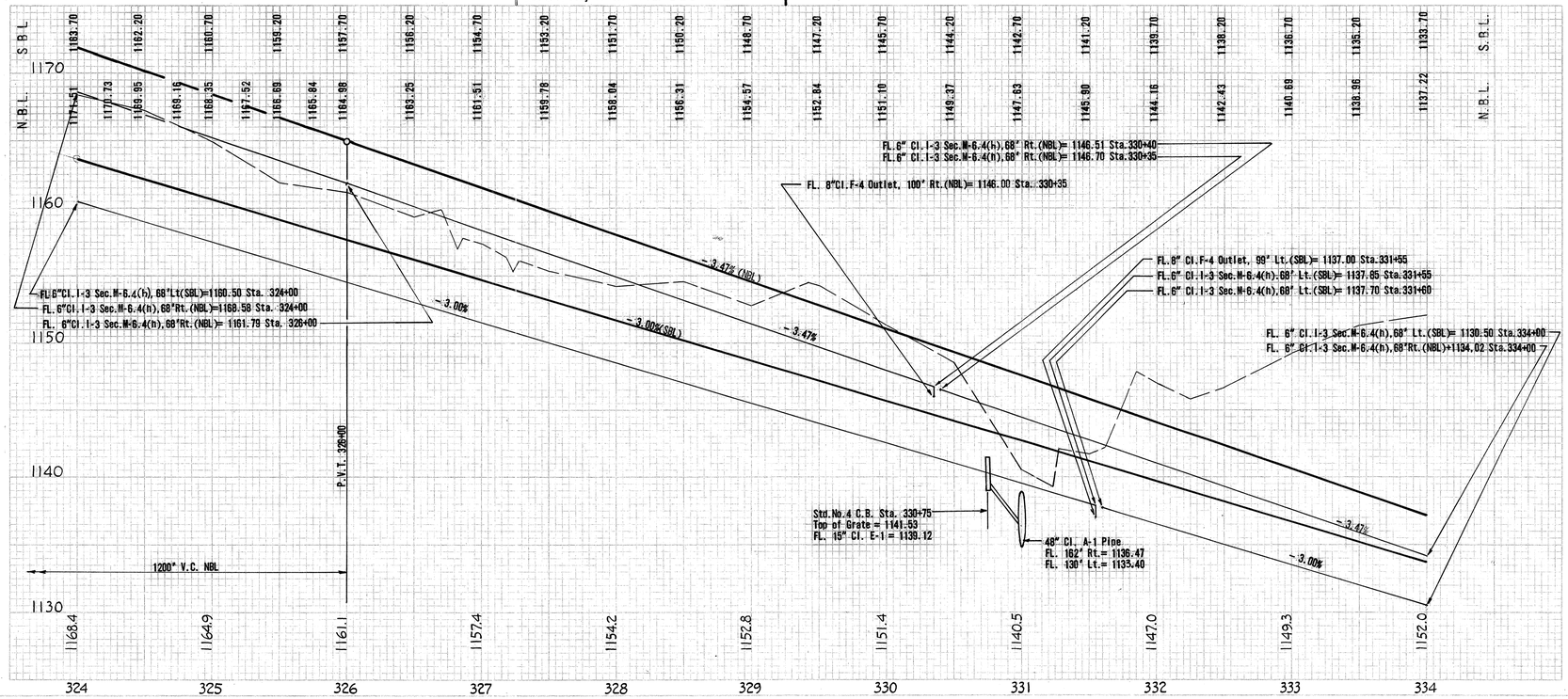
Culvert No. Med-271-5.65



Ref. P.O.T. Sta. 329+00
10" Maple
16.14'
10" Maple
7.57'
℄ I-271
Tacked Hub
8.39'
10" Maple

B.M.# E-29 Elev. 1170.04
Mine Spike in base of 14" Maple
250' Right of Sta. 329+50

(E) See Detail Sheet No. 130



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ESTIMATED QUANTITIES

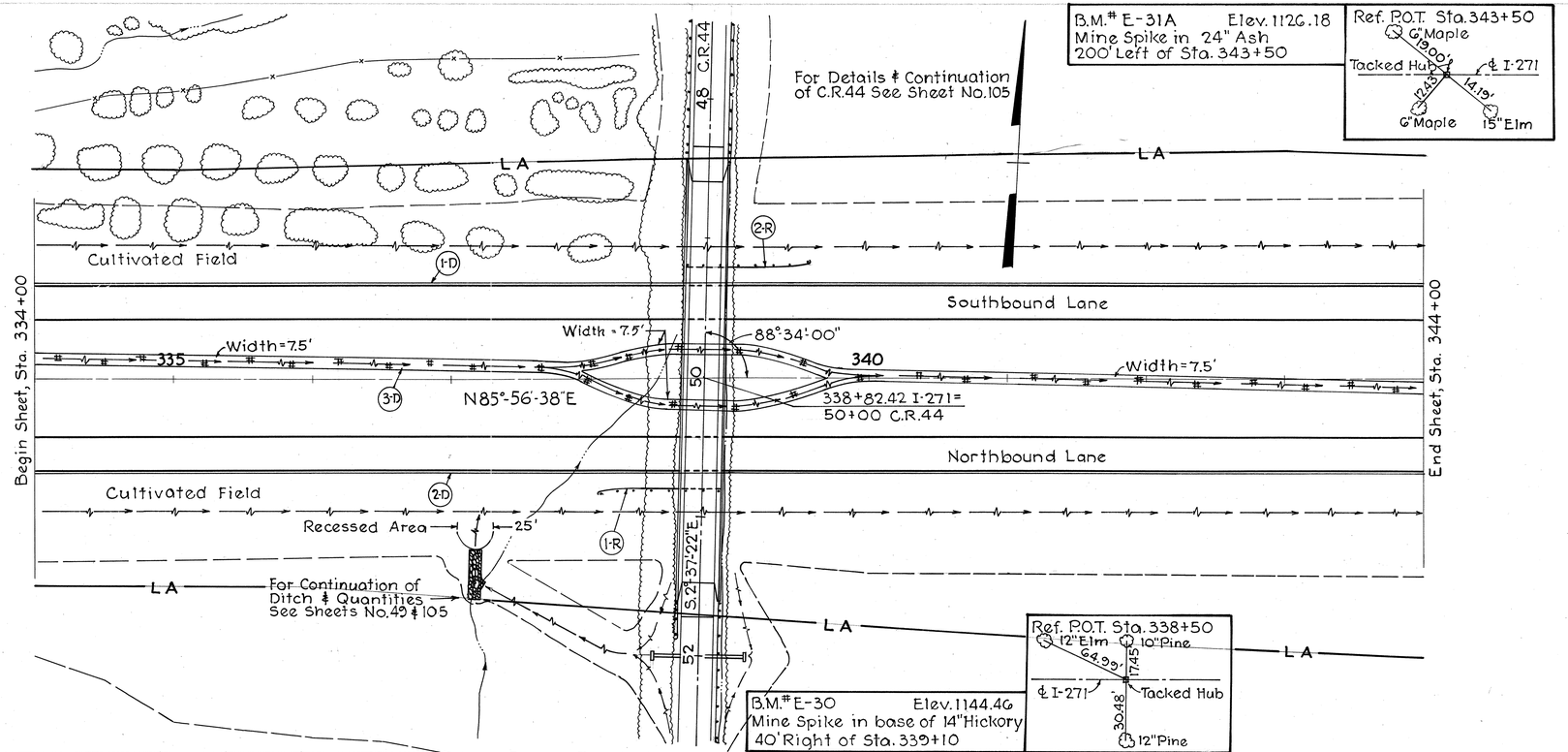
REF. No.	STATION TO STATION	SIDE	I-1 Cl. A-1 Pipe M-6.4(h) 48" Lin. Ft.	I-1 Cl. I-3 Pipe M-6.4(h) 6" Lin. Ft.	I-1 Cl. F-4 Pipe 8" Lin. Ft.	I-1 Cl. E-1 Pipe 15" Lin. Ft.	I-2 Masonry Cu. Yd.	I-5 Pipe Specials Class I-3 Tee 6" Each	I-5 Pipe Specials Class I-3 Bend 6"-90° Each	I-5 Pipe Specials Saddle Tee (24.36"Dia.) 15" on 48" Each	I-8 Std. No. 4 C.B. Each	I-10 6" Reinf. Concrete Rip Rap Sq. Yd.	I-10 Dumped Rock Channel Protection Cu. Yd.	E-3 Channel Excavation Cu. Yd.	L-10 Sodding Sq. Yd.	L-120 Jute Matting Sq. Yd.	SEE SHEET NO.
1-D	324+00 to 331+55	Lt.		803	10				1								
2-D	324+00 to 330+35	Rt.		684	10				1								
3-D	331+60 to 334+00	Lt.		240													
4-D	330+40 to 334+00	Rt.		360													
5-D	331+00					28	20G				1						
6-D	324+00 to 323+00	Rt.	292														
7-D	325+00 to 330+00	Rt.															
8-D	324+00 to 330+75	Mod.															
9-D	324+00 to 331+90	Lt.															
	TOTALS		292	2087	20	28	20G	2	2	1	1	98	11	1418	1710	551	120

Sta. 324+00 to 334+00

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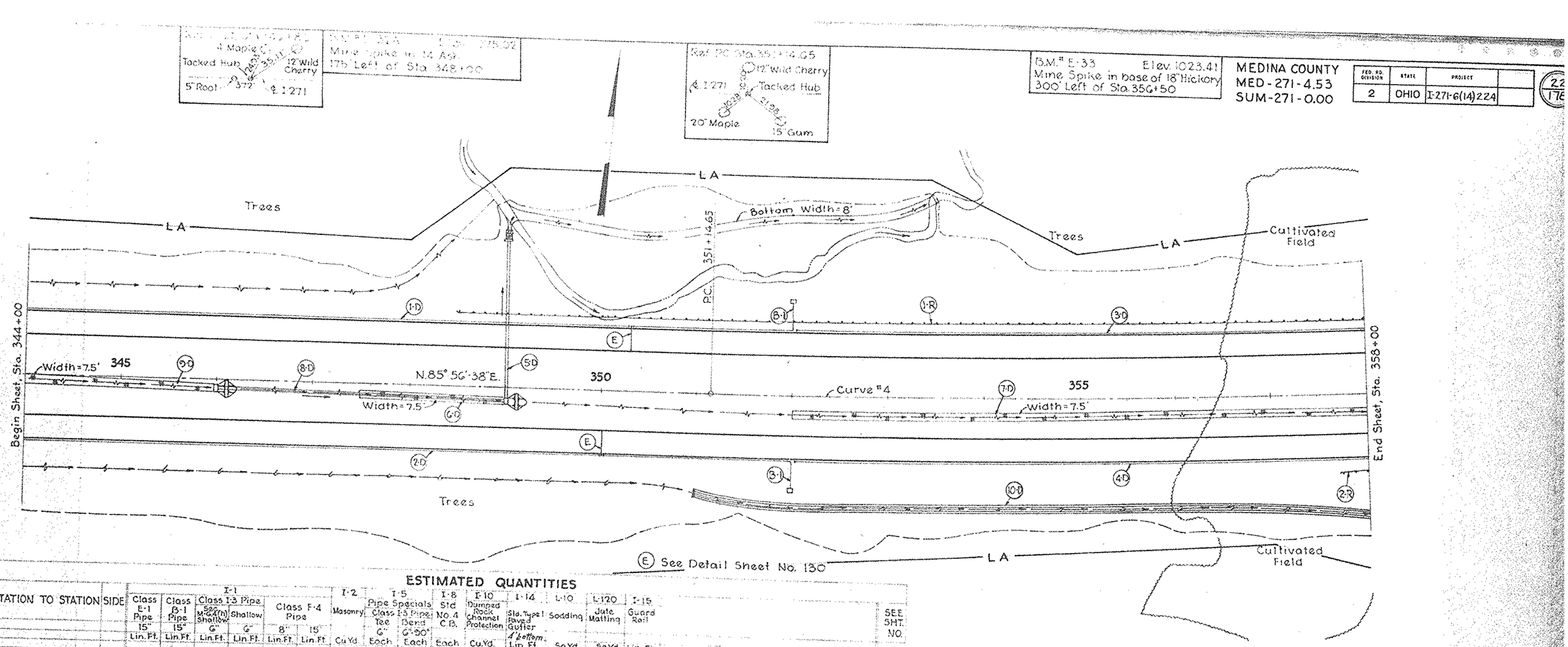
BRIDGE NO. MED-271-0579

TYPE : Continuous steel beams with reinforced concrete deck and substructure.
SPANS : 57'-6", 82'-0", 82'-0", 63'-6"
ROADWAY : 24'-0" face to face of 2'-0" safety curbs
LOAD FREQUENCY : C.F. = 130 (57)
SKEW : None ~~with Pier #2~~ (1°-26' with ℄ I-R 271)
WEARING SURFACE : 1" Monolithic Concrete
APPROACH SLAB : AS-1-54 (25' long)
ALIGNMENT : Tangent

ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	SEE SHEET NO.	I-1 Cl. I-3 Pipe Sec. M-6.4(h) Shallow 6" Lin. Ft.	I-120 Jute Matting Sq. Yd.	I-15 Guard Rail Lin. Ft.
1-D	334+00 to 344+00	Lt.		1000		
2-D	334+00 to 344+00	Rt.		1000		
3-D	334+00 to 344+00	Med.			983	
1-R	338+05.5 to 338+93	Rt.				87.5
2-R	338+69 to 339+56.5	Lt.				87.5
TOTALS				2000	983	175

Sta. 334+00 to 344+00



ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	I-1 Class E-1 Pipe 15" Lin. Ft.	I-1 Class B-1 Pipe 15" Lin. Ft.	I-1 Class I-3 Pipe 522(h) M-45-4 Shallow 6" Lin. Ft.	I-1 Class I-3 Pipe Shallow 6" Lin. Ft.	I-1 Class F-4 Pipe 8" Lin. Ft.	I-1 Class F-4 Pipe 15" Lin. Ft.	I-2 Masonry Cu. Yd.	I-5 Pipe Specials Class I-3 Pipe Tee 6" Each	I-5 Pipe Specials Class I-3 Pipe Bend 6"-90° Each	I-8 Std. No. 4 C.B. Each	I-10 Dumped Rock Channel Protection Cu. Yd.	I-14 Sta. Type I Paved Gutter 4' bottom Lin. Ft.	I-10 Sodding Sq. Yd.	I-120 Jute Matting Sq. Yd.	I-15 Guard Rail Lin. Ft.	SEE SHT. NO.
1-D	344+00 to 352+00	Lt.			826	20	10			1	1							
2-D	344+00 to 352+00	Rt.			826	20	10			1	1							
3-D	352+04 to 358+00	Lt.				596												
4-D	352+04 to 358+00	Rt.				596												
5-D	345+00	Lt.		106				72	0.3			1	2		2			
6-D	347+50 to 349+00	Med.														125		58
7-D	352+00 to 358+00	Med.														500		
8-D	346+00 to 349+00	Med.	316									1						
9-D	344+00 to 346+00	Med.																
10-D	351+00 to 358+00	Rt.														167		
														700	233			
1-R	346+44 to 358+00	Lt.															956	
2-R	351+75 to 358+00	Rt.															25	
	TOTALS		316	106	1652	1232	20	72	0.3	2	2	2	2	700	235	792	981	

CURVE #4
P.I. Sta. 382+90.47
Δ = 29°00'19"
D = 0°28'00"
R = 1,227.77'
L = 6,215.42'
T = 3,175.82'
E = 404.09'

PLAN • Sta. 344+00 to 358+00

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S.B.L. 1103.70 1102.20 1100.70 1099.20 1097.70 1096.20 1094.70 1093.20 1091.70 1090.20 1088.70 1087.20 1085.70 1084.20 1082.70 1081.20 1079.70 1078.20 1076.70 1075.20 1073.70 1072.20 1070.70 1069.20 1067.70 1066.20 1064.70 1063.20

N.B.L. 1102.52 1100.79 1099.05 1097.32 1095.58 1093.85 1092.11 1090.38 1088.64 1086.91 1085.17 1083.44 1081.70 1079.97 1078.23 1076.50 1074.76 1073.03 1071.29 1069.56 1067.82 1066.09 1064.35 1062.62 1060.88 1059.15 1057.41 1055.68

1140
1130
1120
1110
1100
1090
1080
1070
1060
1050

F.L.6" CL. I-3 SEC.M-6.4(h), 68' RT.(NBL) = 1099.32 STA. 344+00
F.L.6" CL. I-3 SEC.M-6.4(h), 68' LT.(SBL) = 1100.50 STA. 344+00

-3.47%

15" CL.E-1 PIPE

3.23%

STD.NO.4 CB, 8.4' RT.
TOP OF GRATE = 1092.20
F.L. 15" CL. E-1 = 1088.70

-3.00%

-3.00%(S.B.L.)

-3.47%(N.B.L.)

STD.NO. 4 CB, 14' RT.
TOP OF GRATE = 1082.50
F.L. 15" CL.E-1(IN) = 1079.00
F.L. 15" CL.B-1(OUT) = 1078.90

F.L.6" CL.I-3,SEC.M-6.4(h), 68' LT.(SBL)= 1076.50 STA. 352+00
F.L.8" CL.F-4 OUTLET, 93' LT.(SBL) = 1076.30 STA. 352+00
F.L.6" CL.I-3,68' LT.(SBL) = 1074.98 STA. 352+04
F.L.6" CL.I-3,SEC.M-6.4(h),68' RT.(NBL) = 1071.56 STA. 352+00
F.L.8" CL.F-4 OUTLET 98' RT.(NBL) = 1071.36 STA. 352+00
F.L.6" CL.I-3,68' RT.(NBL) = 1070.12 STA. 352+04

-3.00%

-3.47%

F.L.6" CL.I-3,68' LT.(SBL) =1057.10
STA.358+00
F.L.6" CL.I-3,68' RT.(NBL) = 1049.44
STA.358+00

1061.70 S.B.L.
1053.94 N.B.L.

1140.9 1139.3 1136.4 1120.2 1110.1 1097.0 1087.9 1070.1 1070.9 1055.8 1056.2 1052.9 1047.7 1046.9 1044.0

344 345 346 347 348 349 350 351 352 353 354 355 356 357 358

PROFILE • Sta. 344+00 to 358+00

Culvert No. Med-271-G.19

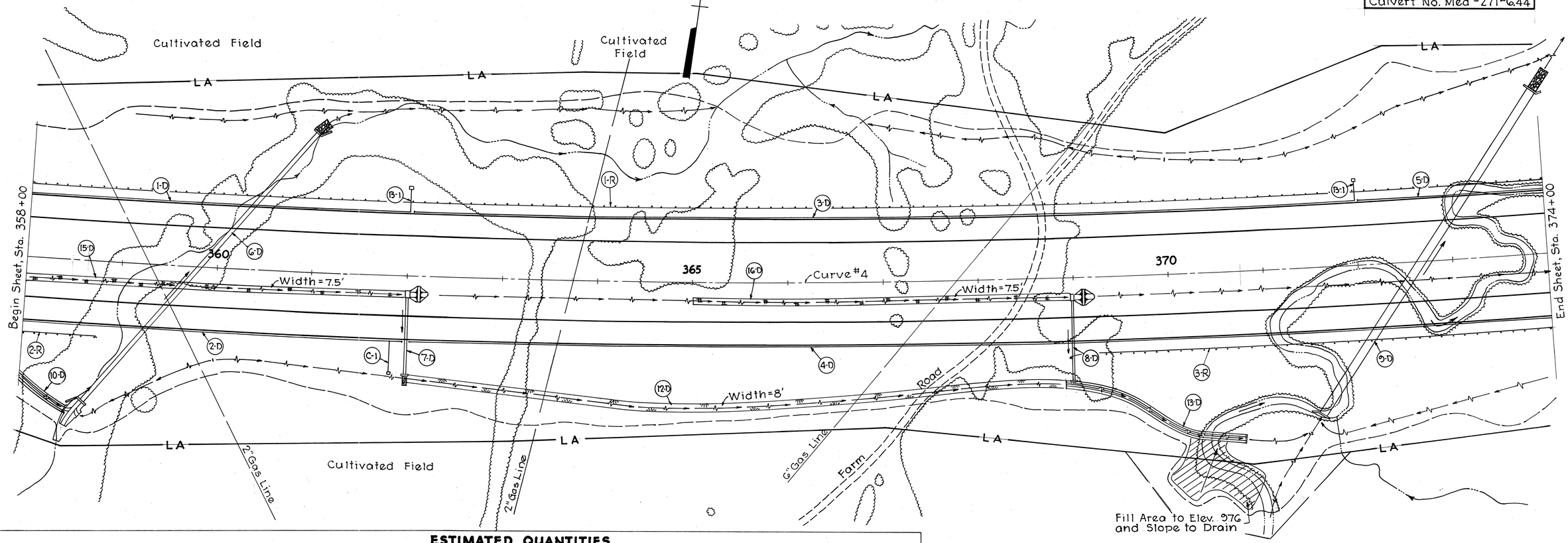
B.M.# E-34 Elev. 1005.93
Mine Spike in base of 12" Wild Cherry 175' Lt. of Sta. 366+25

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SUM-271-0.00

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Culvert No. Med-271-G.44



ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	I-1 Class A-1 Pipe Sec. M.6.4(d) 54" Lin. Ft.	I-1 Class A-1 Pipe Sec. M.6.4(g) Ga.5.3 108" Lin. Ft.	I-1 Class B-1 Pipe 15" Lin. Ft.	I-1 Class I-3 Pipe Shallow 6" Lin. Ft.	I-1 Class F-4 Pipe 6" Lin. Ft.	I-1 Class F-4 Pipe 8" Lin. Ft.	I-2 Masonry Cu. Yd.	I-5 Pipe Specials Class I-3 Bend 6" 90° Each	I-5 Pipe Specials Class I-3 Bend 15" 30° Each	I-8 Std. No. 4 C.B. Each	L-10 Sodding Sq. Yd.	I-10 6" Reinf. Concrete Rip Rap Sq. Yd.	I-10 Dumped Rock Channel Protection Cu. Yd.	E-3 Channel Excavation Cu. Yd.	L-120 Jute Matting Sq. Yd.	I-15 Guard Rail Lin. Ft.	I-14 Std. Type 1 Paved Gutter 4' bottom Lin. Ft.	SEE SHT. NO.
1-D	358+00 to 362+00	Lt.				412		10		1										
2-D	358+00 to 361+96	Rt.				408		10		1										
3-D	362+04 to 372+00	Lt.				1008		10		1										
4-D	362+04 to 374+00	Rt.				1196	10													
5-D	372+04 to 374+00	Lt.				196														
6-D	359+82		378						25.2				10	38	12	42				120
7-D	362+00	Rt.			84				0.3		2	1	2		2					66
8-D	370+50	Rt.			90				0.3			1	2							65
9-D	372+67			406					14.4				9		20	781				122
10-D	358+00 to 358+50	Rt.											17						50	
12-D	362+00 to 369+00	Rt.											622							
13-D	369+00 to 370+75	Rt.											63						185	
15-D	358+00 to 362+00	Rt.															333			
16-D	365+00 to 369+00	Rt.															333			
1-R	358+00 to 374+00	Lt.																1600		
2-R	358+00 to 358+75	Rt.																75		
3-R	369+00 to 374+00	Rt.																500		
	TOTALS		378	406	174	3220	10	30	40.2	3	2	2	785	38	34	823	666	2175	235	

CURVE # 4
P.I. Sta. 382+90.47
Δ = 29°-00'-19"
D = 0°-28'-00"
R = 12,277.67'
L = 6,215.42'
T = 3,175.82'
E = 404.09'

(B-1) See Detail Sheet No. 130

PLAN • Sta. 358+00 to 374+00

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N.B.L. S.B.L.

1053.94 1061.70 | 1052.21 1060.20 | 1050.47 1058.70 | 1048.74 1057.20 | 1047.00 1055.70 | 1045.27 1054.20 | 1043.53 1052.70 | 1041.80 1051.20 | 1040.06 1049.70 | 1038.33 1048.20 | 1036.59 1046.70 | 1034.86 1045.20 | 1033.12 1043.70 | 1031.39 1042.20 | 1029.65 1040.70 | 1027.92 1039.20 | 1026.18 1037.70 | 1024.45 1036.20 | 1022.71 1034.70 | 1020.98 1033.20 | 1019.24 1031.70 | 1017.51 1030.20 | 1015.77 1028.70 | 1014.91 1027.20 | 1014.08 1025.70 | 1013.26 1024.20 | 1012.47 1022.70 | 1011.69 1021.20 | 1010.94 1010.20 | 1009.49 1008.80 | 1008.13

1007.48 1019.70 | 1006.85 1018.20 | 1006.24 1016.70 | 1005.65 1015.20 | 1005.08 1014.45 | 1004.54 1013.72 | 1004.01 | 1003.50 | 1003.02 | 1002.56

N.B.L. S.B.L.

1060 1050 1040 1030 1020 1010 1000 990 980 970

F.L.6" CL.1-3,68° LT.(S.B.L.) = 1057.10 STA.358+00
F.L.6" CL.1-3,68° RT.(N.B.L.) = 1049.44 STA.358+00

F.L.6" CL.1-3,68° LT. (S.B.L.) = 1045.10 STA.362+00
F.L.8" CL.F-4 OUTLET 93° LT. (S.B.L.) = 1044.80 STA.362+00
F.L.6" CL.1-3,68° LT. (S.B.L.) = 1044.98 STA.362+04

F.L.6" CL.1-3,68° RT. (N.B.L.) = 1035.44 STA.362+04

-3.00%

-3.41%

-4.8%

F.L.6" CL.1-3,68° RT. (N.B.L.) = 1037.82 STA.1061+35
F.L.6" CL.1-3,68° RT. (N.B.L.) = 1035.4 STA.1061+85
F.L.8" CL.F-4 (OUTLET) 103° RT. (N.B.L.) = 1035.0 STA.1061+85
F.L.6" CL.1-3,68° RT. (N.B.L.) = 1035.7 STA.1061+36

STD.NO.4 CB 20° RT.
TOP OF GRATE = 1038.14
F.L.15" CL. B-1 = 1035.00

54" CL. A-1 PIPE
F.L. 1014.28 - 189° LT.
F.L. 1029.40 - 189° RT.

-3.00% (S.B.L.)

-3.47% (N.B.L.)

-3.47%

-3.00%

P.V.C. 369+00 N.B.L.

1200° V.C.

10°-6" CL.F-4

STD.NO. 4 C.B. 20° RT.
TOP OF GRATE = 1013.85
F.L.15" CL. B-1 = 1010.74

F.L.6" CL.1-3,68° LT.(S.B.L.) = 1014.98 STA. 372+04
F.L.8" CL.F-4 OUTLET 91° LT.(S.B.L.) = 1014.90 STA. 372+00
F.L.6" CL.1-3,68° LT.(S.B.L.) = 1015.10 STA. 372+00

1200° V.C.

P.V.C. 373+60 S.B.L.

F.L.6" CL.1-3,68° LT. (S.B.L.) = 1010.40 STA.373+00
F.L.6" CL.1-3,68° LT. (S.B.L.) = 1009.22 STA.374+00
F.L.6" CL.1-3,68° RT. (N.B.L.) = 998.06 STA.374+00

108" CL.A-1 PIPE.
F.L.965.45-210° LT.
F.L.969.00-186° RT.

1044.0 1037.2 1033.7 1031.9 1026.9 1021.2 1015.3 1009.4 1012.1 1011.1 1010.7 1011.5 1011.3 992.4 969.8 972.0 974.5

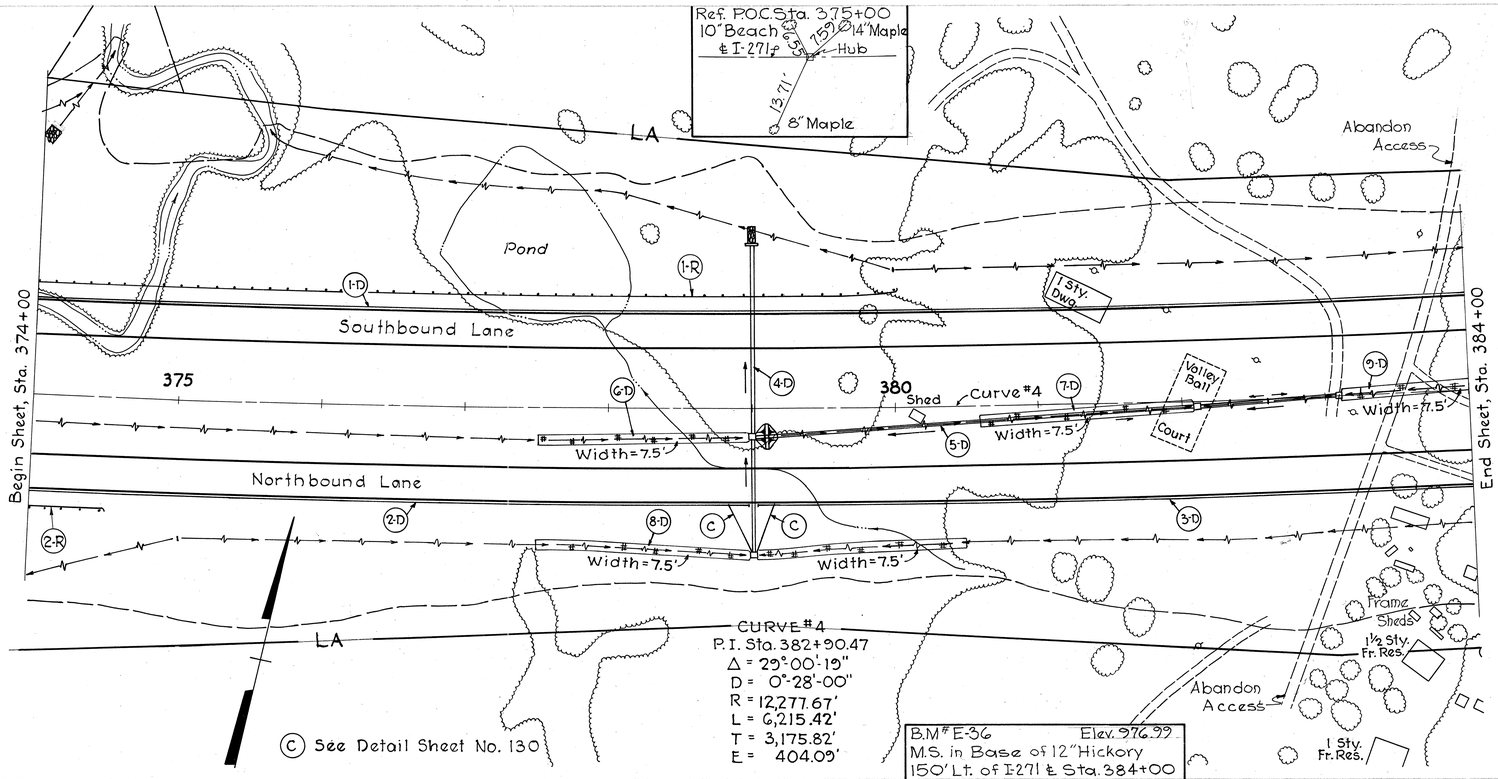
358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374

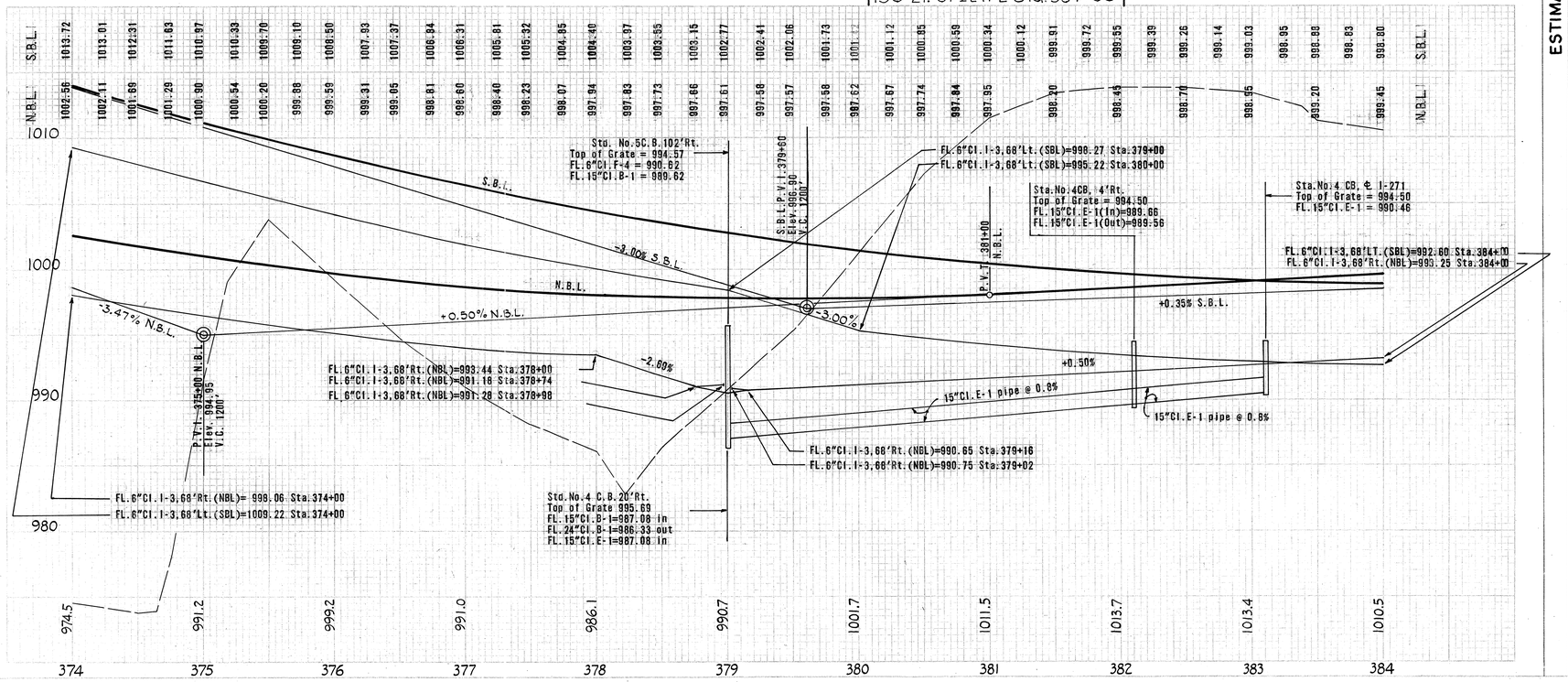
PROFILE • Sta. 358+00 to 374+00

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ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	I-1 Class B-1 Pipe 24" Lin. Ft.	I-1 Class E-1 Pipe 15" Lin. Ft.	I-1 Class I-3 Pipe Shallow 6" Lin. Ft.	I-1 Class I-3 Pipe Deep 6" Lin. Ft.	I-2 Masonry Cu. Yd.	I-5 Pipe Specials Class 3 f3 Wye 6"-6" Each	I-8 Std. No. 4 C.B. Each	I-8 Std. No. 5 C.B. Each	I-10 Dumped Rock Channel Protection Cu. Yd.	I-10 L-10 Sodding Sq. Yd.	I-10 L-120 Jute Matting Sq. Yd.	I-15 Guard Rail Lin. Ft.	I-1 Class F-4 6" Lin. Ft.	SEE SHEET NO.
1-D	374+00 to 384+00	Lt.			500	500		1							10	
2-D	374+00 to 378+98	Rt.			400	135									10	
3-D	379+02 to 384+00	Rt.				535		1			3	3	125			76
4-D	379+00 to 383+10	Rt.		80	15G		0.4		1	1			125			
5-D	379+00 to 379+00	Med.							2				250			
6-D	377+50 to 379+00	Med.											75			
7-D	380+60 to 382+10	Med.														
8-D	377+50 to 380+50	Rt.														
9-D	383+10 to 384+00	Med.														
														594 50		
1-R	374+00 to 379+94	Lt.														
2-R	374+00 to 374+50	Rt.														
TOTALS			80	15G	410	1170	0.4	2	3	1	3	3	575	G44	20	

Sta. 374+00 to 384+00

MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

FED. RD. DIVISION	STATE	PROJECT	
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Ref. P.O.C. Sta. 385+50
12" Beach
℄ I-271
17.34'
Hub
11.70'
31.40'
20" Beach
10" Pig Nut

Culvert No. Med-271-6.71

Ref. P.O.C. Sta. 394+00
32" W. Cherry
2" ⌀ 29.17'
29.15'
W. Cherry
℄ I 271
Hub
32.88'
6" W. Cherry

Begin Sheet, Sta. 384+00

End Sheet, Sta. 394+00

LA

Width = 8'

Width = 7.5'

1½ Sty. Fr. Res.

1 Sty. Fr. Res.

385

390

Curve #4

Southbound Lane

Northbound Lane

Abandon Access

Oil Line

Farm Road

CURVE #4
P.I. Sta. 382+90.47
Δ = 29°-00'-19"
D = 0°-28'-00"
R = 12,277.67'
L = 6,215.42'
T = 3,175.82'
E = 404.09'

(E) See Detail Sheet No. 130

B.M. #37 Elev. 1006.95
M.S. in Base of 18" Beechnut
400' Lt. of I-271 ℄ Sta. 387+00

B.M. #E-37A Elev. 1002.67
M.S. in 12" Quaken Aspen
275' Lt. of I-271 ℄ Sta. 393+50

S.B.L. 999.60 999.78 999.76 999.80 999.84 999.90 999.97 999.85 999.14 999.32 999.49 999.67 999.84 1000.02 1000.19 1000.37 1000.54 1000.72 1000.89 1001.07 1001.24 1001.42 1001.59 1001.77 1001.94 S.B.L.

N.B.L. 999.45 999.70 999.95 1000.20 1000.45 1000.70 1000.95 1001.20 1001.45 1001.70 1001.95 1002.20 1002.45 1002.70 1002.95 1003.20 1003.45 1003.70 1003.95 1004.20 1004.45 N.B.L.

1200' V.C. S.B.L.

S.B.L. Elev. 999.00

P.V.T. 385+80

Sta. 387+25
Std. No. 4 C.B., 6' Lt.
Top of Grate = 995.90
FL. 15" Cl. B-1 = 991.00

+0.50% (N.B.L.)

+0.35% (S.B.L.)

+0.50%

-0.50%

+0.90%

+0.50%

+0.35%

1010
1000
990
980

FL. 6" Cl. I-3, 68° Rt. (NBL) = 994.10 Sta. 385+70
FL. 6" Cl. I-3, 68° Rt. (NBL) = 995.96 Sta. 386+20
FL. 6" Cl. I-3, 68° Lt. (SBL) = 992.60 Sta. 384+00
FL. 6" Cl. I-3, 68° Rt. (NBL) = 993.25 Sta. 384+00

FL. 6" Cl. I-3, 68° Rt. (NBL) = 995.75 Sta. 389+00
FL. 8" Cl. F-4, 93° Rt. (NBL) = 995.50 Sta. 388+00
FL. 6" Cl. I-3, 68° Rt. (NBL) = 997.43 Sta. 388+96

FL. 6" Cl. I-3, 68° Lt. (SBL) = 993.60 Sta. 388+00
FL. 6" Cl. I-3, 68° Lt. (SBL) = 993.00 Sta. 387+50
FL. 8" Cl. F-4, 94° Lt. (SBL) = 992.50 Sta. 387+50
FL. 6" Cl. I-3, 68° Lt. (SBL) = 993.50 Sta. 387+29

FL. 6" Cl. I-3, 68° Lt. (SBL) = 995.74 Sta. 394+00
FL. 6" Cl. I-3, 68° Rt. (NBL) = 998.25 Sta. 394+00

FL. 6" Cl. I-3, 68° Lt. (SBL) = 992.00 Sta. 387+21
FL. 6" Cl. I-3, 68° Lt. (SBL) = 991.35 Sta. 386+50
FL. 8" Cl. F-4, 98° Lt. (SBL) = 990.30 Sta. 386+50

84" Cl. A-1 pipe
FL. 970.79 = 124' Lt.
FL. 973.00 = 122' Rt.

1010.5 1008.6 988.8 975.3 977.9 996.8 1014.4 1017.8 1014.9 1013.6 1011.1

384 385 386 387 388 389 390 391 392 393 394

ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	I-8 Std. No.4 C.B. Each	I-10 Dumped Rock Channel Protection Cu.Yd.	I-14 Std. No.1 Pond Gutter Modified 4' Bottom Lin.Ft.	E-3 Channel Excav. Cu.Yd.	L-10 Sodding Sq.Yd.	L-120 Jute Matting Sq.Yd.	I-10 6" Reinf. Concrete Rip Rap Sq.Yd.	I-15 Guard Rail Lin.Ft.	SEE SHEET NO.
											123 179
1-D	384+00 to 387+21	Lt.		16		105	12		27		
2-D	384+00 to 388+96	Rt.	1	2	200		2				
3-D	387+07 to 394+00	Lt.					67			300	
4-D	389+00 to 394+00	Rt.					80			250	
5-D	386+90							12.5			
6-D	387+25						125				
7-D	387+15 to 389+10	Lt.					298				
8-D	389+10 to 390+00	Rt.						50			
10-D	387+25 to 388+75	Med.									
11-D	384+90 to 386+10	Lt.									
12-D	386+85 to 390+00	Lt.									
13-D	384+00 to 384+60	Med.									
1-R	385+95 to 388+95	Lt.									
2-R	385+50 to 388+00	Rt.									
TOTALS			2	18	200	105	588	175	27	550	

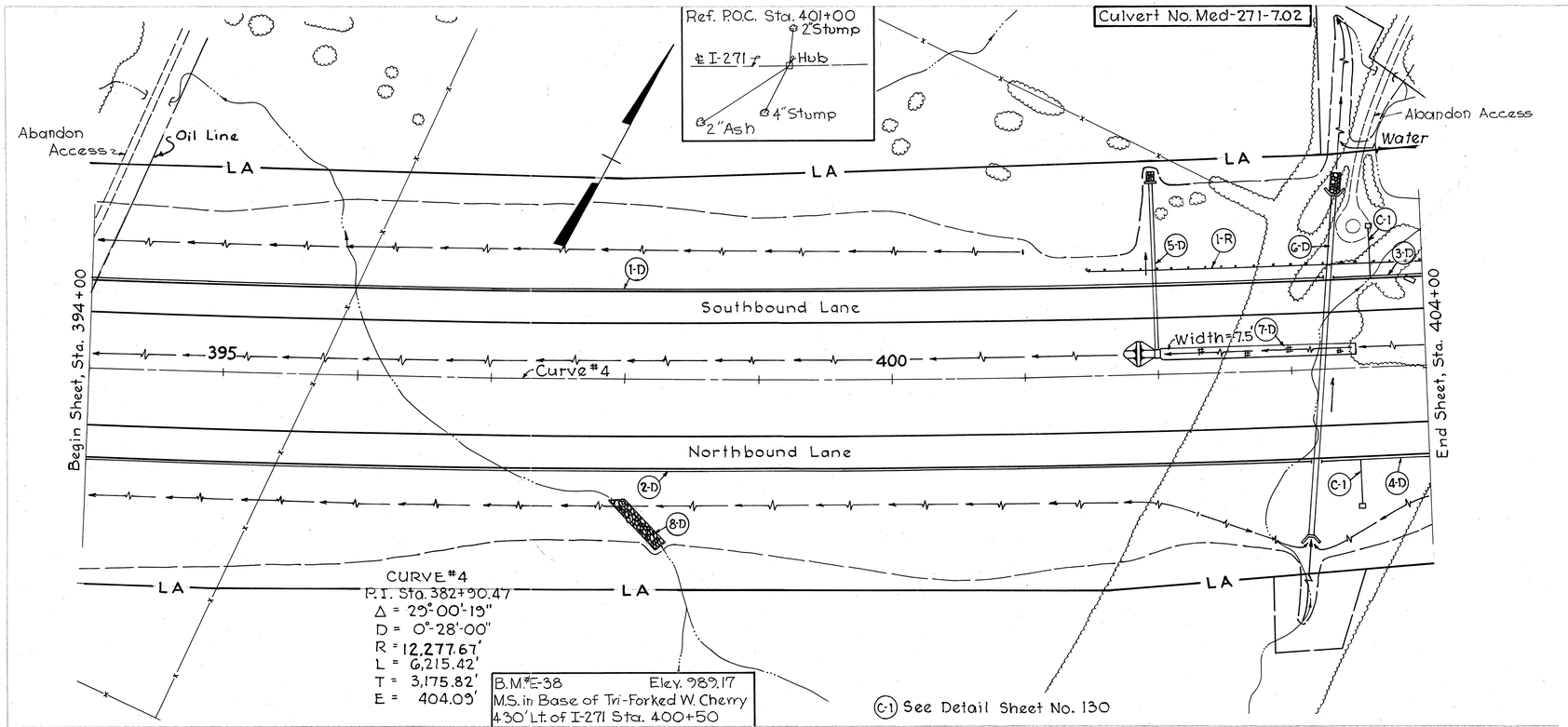
REF. NO.	STATION TO STATION	SIDE	I-1 Cl. A-1 Sec. (d) M-190 Cl. (d) 84" Lin.Ft.	I-1 Class I-3 Pipe Deep 6" Lin.Ft.	I-1 Class I-3 Pipe Shallow 6" Lin.Ft.	I-1 Class F-4 Pipe 15" Lin.Ft.	I-1 Class F-4 Pipe 8" Lin.Ft.	I-2 Class B-1 Pipe 15" Lin.Ft.	I-2 Masonry Cu.Yd.	I-5 Pipe Specials Class I-3 Bend 6" Each	I-5 Pipe Specials Cl. F-4 Bend 15°30" Each	I-8 Std. No.4 C.B. Each
1-D	384+00 to 387+21	Lt.		341	276		10			1		
2-D	384+00 to 388+96	Rt.		220								
3-D	387+07 to 394+00	Lt.		686			10			2		
4-D	389+00 to 394+00	Rt.		541			10			1	1	
5-D	386+90		246						47.4			
6-D	387+25	Lt.							0.3			2
7-D	387+15 to 389+10	Rt.				46		88				1
8-D	389+10 to 390+00	Rt.										
10-D	387+25 to 388+75	Med.										
11-D	384+90 to 386+10	Lt.										
12-D	386+85 to 390+00	Lt.										
13-D	384+00 to 384+60	Med.										
1-R	385+95 to 388+95	Lt.										
2-R	385+50 to 388+00	Rt.										
TOTALS			246	1788	276	46	30	88	47.7	4	1	2

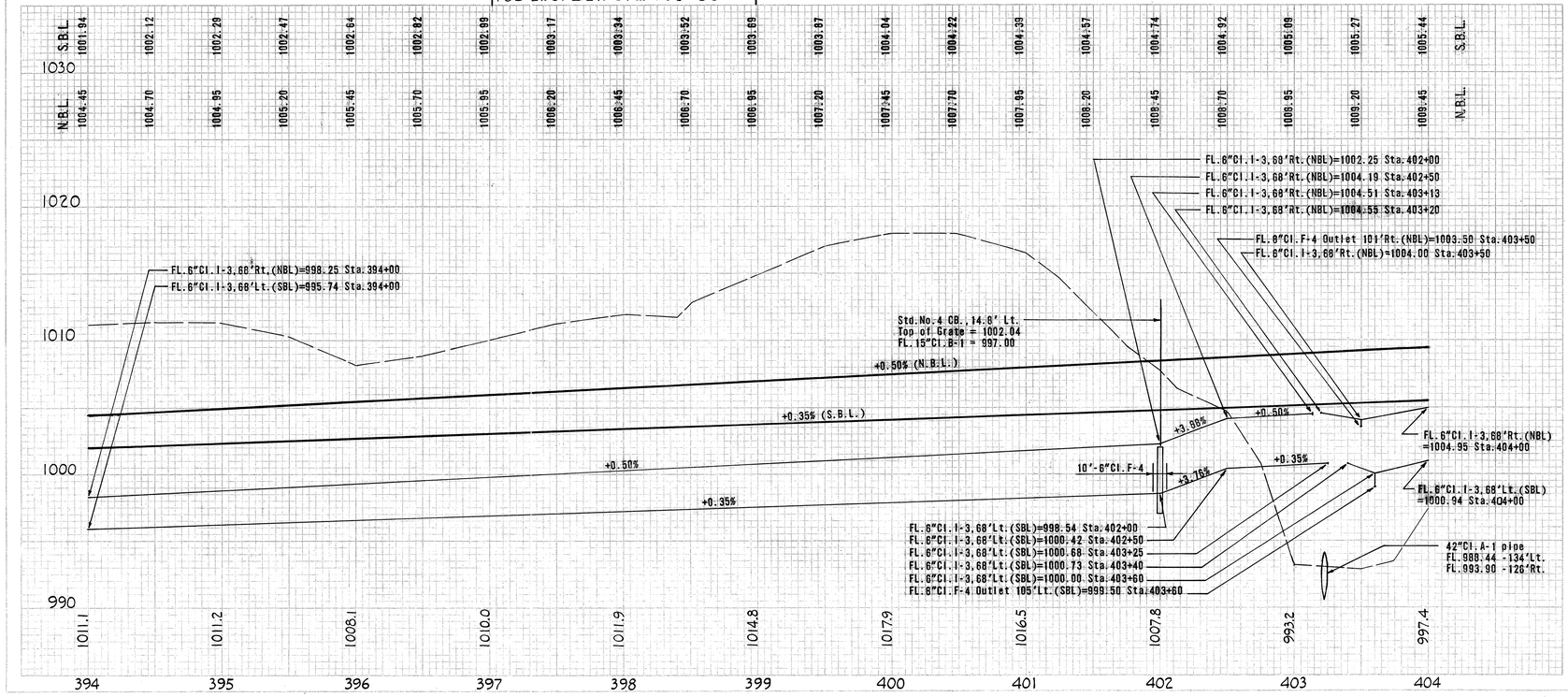
Sta. 384+00 to 394+00

MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

FED. RD. DIVISION	STATE	PROJECT	
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ESTIMATED QUANTITIES

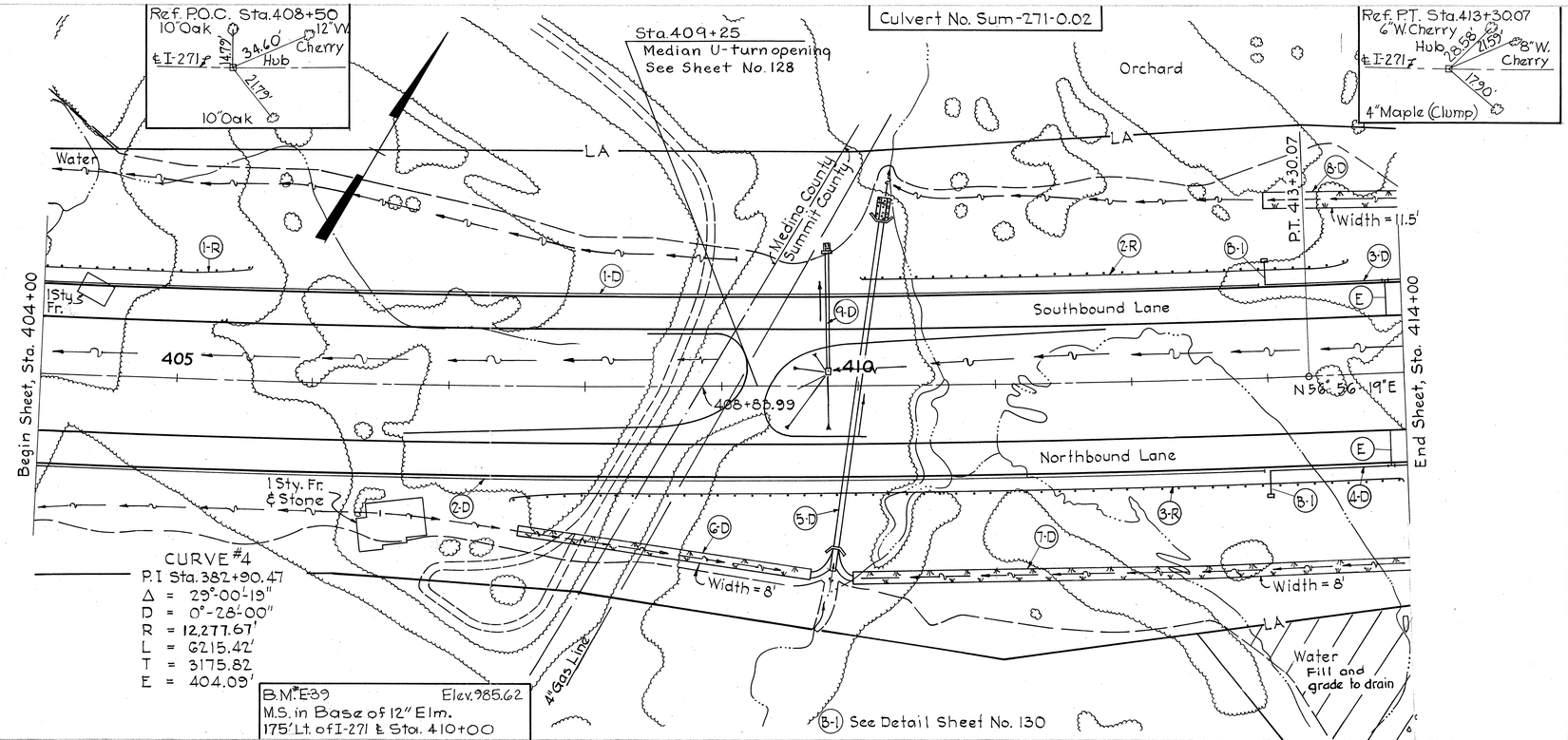
REF. NO.	STATION TO STATION	SIDE	I-1 Class B-1 Pipe 15" Lin.Ft.	I-1 Cl. A-1 See Mod. 607.01 or 607.02 42" Lin.Ft.	I-1 Class I-3 Pipe Deep 6" Lin.Ft.	I-1 Class I-3 Pipe Shallow 6" Lin.Ft.	I-1 Class F-4 Pipe 6" 8" Lin.Ft.	I-2 Masonry Cu.Yd.	I-5 Pipe Specials Cl. I-3 Typ. G Each	I-8 Std. No. 4 C.B. Each	I-10 Dumped Rock Channel Protection Cu.Yd.	I-10 Channel Excavation Cu.Yd.	L-10 Sodding Sq.Yd.	L-120 Jute Matting Sq.Yd.	I-15 Guard Rail Lin.Ft.	SEE SHEET NO.
1-D	394+00 to 403+25	Lt.			850	75	10									
2-D	394+00 to 403+13	Rt.			850	63										
3-D	403+40 to 404+00	Lt.				85	10		1							
4-D	403+20 to 404+00	Rt.				103	10		1							
5-D	402+00 to 403+23	Lt.	120					0.3		1	2	55	2			
6-D	402+00 to 403+50	Lt.		260				14.0			11		7	125		
7-D	398+00 to 404+00	Rt.									28					
8-D															2.46	
1-R	401+54 to 404+00	Lt.														84
	TOTALS		120	260	1700	326	20	14.3	2	1	41	55	9	125	2.46	84

Sta. 394+00 to 404+00

MEDINA & SUMMIT COUNTIES
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SUM-271-0.00

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ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	I-1 Class I-3 Pipe Shallow Deep CL.A-1 Std. No. 4 CB Dia. 24" Lin. Ft.	I-1 Class I-3 Pipe Shallow 6" Lin. Ft.	I-1 Class I-3 Pipe Deep 6" Lin. Ft.	I-1 Class F-4 Pipe 6" Lin. Ft.	I-1 Class F-4 Pipe 8" Lin. Ft.	I-2 Masonry Cu. Yd.	I-5 Pipe Specials Class I-3 Tee 6" Each	I-5 Pipe Specials Class I-3 Bend 6"-90° Each	L-10 Sodding Sq. Yd.	E-3 Channel Excavation Cu. Yd.	I-10 Dumped Rock Channel Protection Cu. Yd.	I-10 6" Reinf. Concrete Rip Rap Sq. Yd.	I-15 6" Reinf. Concrete Guard Rail Lin. Ft.	I-1 Class B-1 15" Lin. Ft.	I-8 Std. No. 4 CB Each	SEE SHEET NO.
1-D	404+00 to 412+96	Lt.		896														
2-D	404+00 to 412+96	Rt.		896														
3-D	413+00 to 414+00	Lt.			134		10		1	1								
4-D	413+00 to 414+00	Rt.			134		10		1	1								
5-D	410+00							20.0										124
6-D	407+50 to 409+75	Rt.	246															
7-D	410+05 to 414+00	Rt.									200							
8-D	413+00 to 414+00	Lt.				10		0.3			351							
9-D	409+78	Med.									128							
											3						1	88
1-R	404+00 to 405+54	Lt.																
2-R	410+06 to 413+56	Lt.																
3-R	407+44 to 413+94	Rt.																
	TOTALS		246	1792	268	10	20	20.3	2	2	691	13	38	42	1154	86	1	

Sta. 404+00 to 414+00

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For Details and Quantities for C.H. 47 See Sheet Nos. 108 & 109

Begin Sheet, Sta. 414+00

End Sheet, Sta. 425+00

L A

Power Line

Cultivated Field

Width = 11.5'

Southbound Lane

32°-28'-30"

415

420

Width = 7.5'

N56-56'-19 E

Orchard

418+65.18 ℄ I-271 =
8+27.90 ℄ C.H. 47

Northbound Lane

Width = 8'

Cultivated

C.H. 47

Access Abandoned

B.M. #E-40A Elev. 1023.54
M.S. in 12" Twin Cherry
150' Lt. of I-271 ℄ Sta. 415+50

B.M. #E-40B Elev. 1054.68
M.S. in Power Pole #34-B-5
215' Rt. of I-271 ℄ Sta. 422+00

S.B.L. 1009.22 1009.41 1009.62 1009.84 1010.07 1010.32 1010.58 1010.87 1011.17 1011.48 1011.81 1012.15 1012.51 1012.88 1013.27 1013.68 1014.10 1014.54 1014.99 1015.45 1015.91 1016.83 1017.75 1018.87 1019.59 1020.51 1021.43 1022.35 1023.27 1024.19 1025.11 1026.03 1026.95

N.B.L. 1014.45 1014.70 1014.95 1015.20 1015.45 1015.70 1015.95 1016.20 1016.45 1016.58 1016.72 1016.87 1017.04 1017.21 1017.40 1017.60 1017.80 1018.02 1018.25 1018.49 1018.74 1019.01 1019.28 1019.57 1019.86 1020.17 1020.49 1020.82 1021.16 1021.51 1021.87 1022.24 1022.63 1023.02 1023.43 1023.84 1024.27

1400' V.C.(N.B.L.)

600' V.C. (SBL)

BRIDGE NO. SUM-271-0019
TYPE: Continuous welded girders with reinforced concrete deck and substructure.
SPANS: 99'-0", 152'-0", 152'-0", 121'-6"
ROADWAY: 24'-0" face to face of 2'-0" safety curbs.
LOAD FREQUENCY: C.F. = 130(57)
SKEW: 57°-31'-30" (L.F.)
WEARING SURFACE: 1" Monolithic concrete
APPROACH SLABS: AS-1-54 (25' long)
ALIGNMENT: Tangent

Std. No. 4 CB. 19.7' Lt.
Top of Grate = 1007.66
F.L. 18" Cl. E-1 (In) = 1002.80
F.L. 18" Cl. B-1 (Out) = 1002.50

P.V.I. 415+50 (S.B.L.)
Elev. 1009.47

F.L. 6" Cl. I-3.68' Lt. (SBL) = 1003.02 Sta. 414+00
F.L. 6" Cl. I-3.68' Rt. (NBL) = 1008.25 Sta. 414+00

+0.50% (N.B.L.)

P.V.I. 418+00 (N.B.L.)

P.V.I. 418+50 (S.B.L.)

Std. No. 2-2-B CB. 19' Lt.
Top of Grate = 1013.0
F.L. 18" Cl. E-1 (In) = 1007.97
F.L. 18" Cl. E-1 (Out) = 1007.87

F.L. 6" Cl. I-3.68' Rt. (NBL) = 1010.25 Sta. 418+00
F.L. 6" Cl. I-3.68' Lt. (SBL) = 1008.79 Sta. 418+50

+1.84% SBL

Std. No. 4 CB. 2.3' Lt.
Top of Grate = 1012.70
F.L. 18" Cl. E-1 = 1009.30

+0.50%

18" Cl. E-1 pipe @ 1.33%

10'-6" Cl. F-4

F.L. 6" Cl. I-3.68' Rt. (NBL) = 1011.60 Sta. 420+00
F.L. 6" Cl. I-3.68' Lt. (SBL) = 1011.55 Sta. 420+00

+1.84% (S.B.L.)

N.B.L.

+0.50% N.B.L.

+1.84%

F.L. 6" Cl. I-3.68' Lt. (SBL) = 1020.75 Sta. 425+00
F.L. 6" Cl. I-3.68' Rt. (NBL) = 1018.07 Sta. 425+00

P.V.I. 425+00 NBL
Elev. 1018.95

1006.1 1017.7 1022.7 1030.6 1037.8 1037.8 1045.7 1051.4 1056.8 1062.3 1064.4 1065.3

414 415 416 417 418 419 420 421 422 423 424 425

Sta. 414+00 to 425+00

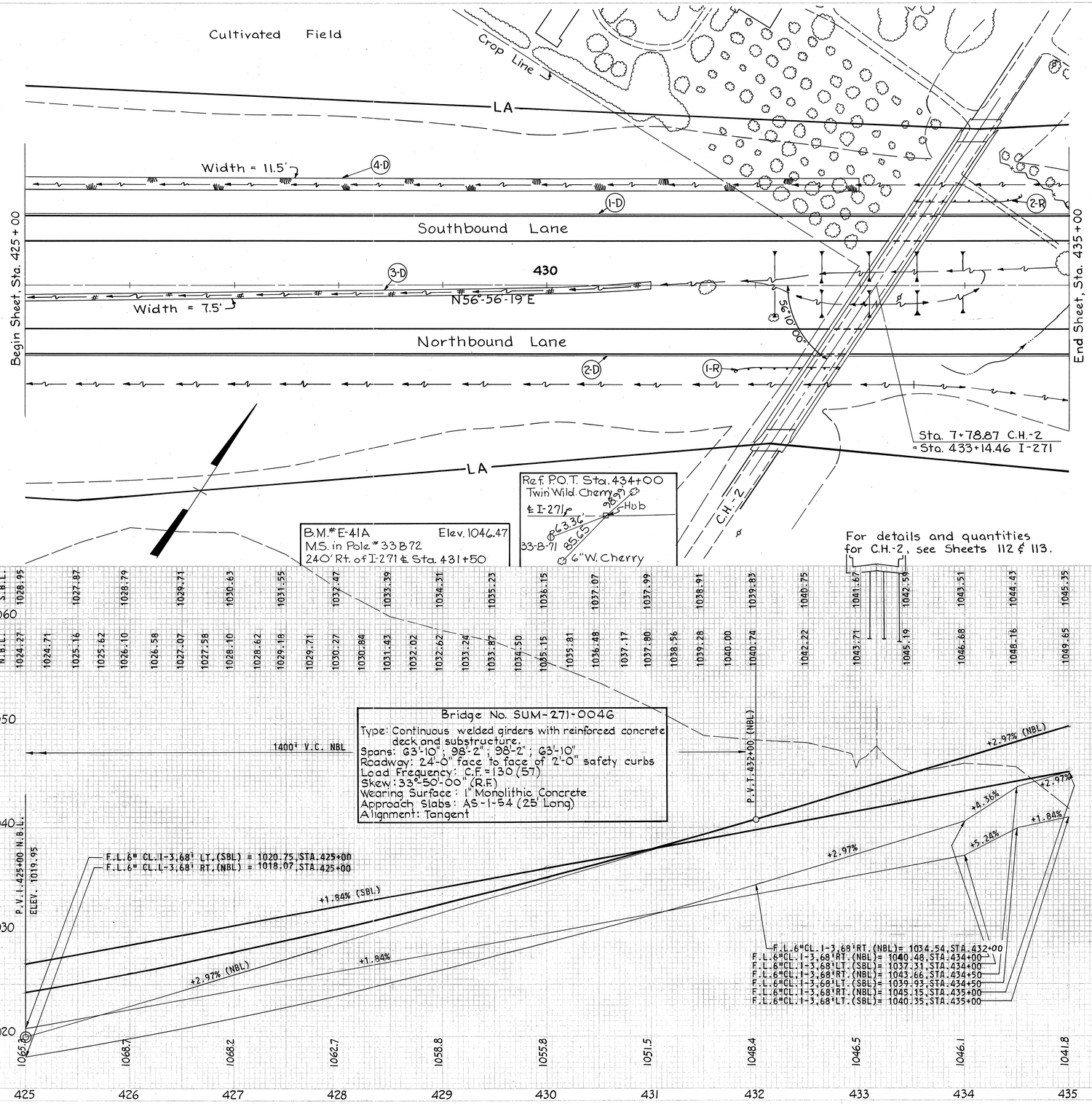
ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	I-1 Class E-1 18" Lin.Ft.	I-1 Class B-1 18" Lin.Ft.	I-1 Class I-3 Pipe Deep 6" Lin.Ft.	I-1 Class F-4 6" Lin.Ft.	I-2 Masonry Cu.Yd.	I-8 Std. No. 4 C.B. Each	I-8 Std. No. 2-2-B C.B. Each	L-10 Sodding Sq.Yd.	L-120 Jute Matting Sq.Yd.	I-10 Dumped Rock Channel Protection Cu.Yd.	I-15 Guard Rail Lin.Ft.	SEE SHEET NO.
1-D	414+00 to 425+00	Lt.			1090	10						2		
2-D	414+00 to 425+00	Rt.			1100									
3-D	414+50 to 418+50	Lt.	400	92			0.3	1		3				
4-D	418+50 to 419+50	Lt.	100						1					
5-D	418+50 to 415+25	Lt.						1		111				
6-D	414+00 to 416+00	Lt.									125		112.5	
7-D	414+50 to 416+00	Rt.									458		112.5	
8-D	419+50 to 425+00	Rt.												
9-D	414+00 to 425+00	Lt.								1400				
1-R	417+13 to 418+25.5	Lt.												
2-R	419+05.5 to 420+18	Rt.												
TOTALS			500	92	2190	10	0.3	2	1	1514	583	2	225	

SUMMIT COUNTY
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S.B.L. 1028.95 1027.87 1028.79 1029.71 1030.63 1031.55 1032.47 1033.39 1034.31 1035.23 1036.15 1037.07 1037.99 1038.91 1039.83 1040.75 1041.67 1042.59 1043.51 1044.43 1045.35

N.B.L. 1024.27 1024.71 1025.16 1025.62 1026.10 1026.58 1027.07 1027.58 1028.10 1028.62 1029.18 1029.71 1030.27 1030.84 1031.43 1032.02 1032.62 1033.24 1033.87 1034.50 1035.15 1035.81 1036.48 1037.17 1037.80 1038.56 1039.28 1040.00 1040.74 1042.22 1043.71 1045.19 1046.68 1048.16 1049.65

1065.8 1068.7 1068.2 1062.7 1058.8 1055.8 1051.5 1048.4 1046.5 1046.1 1041.8

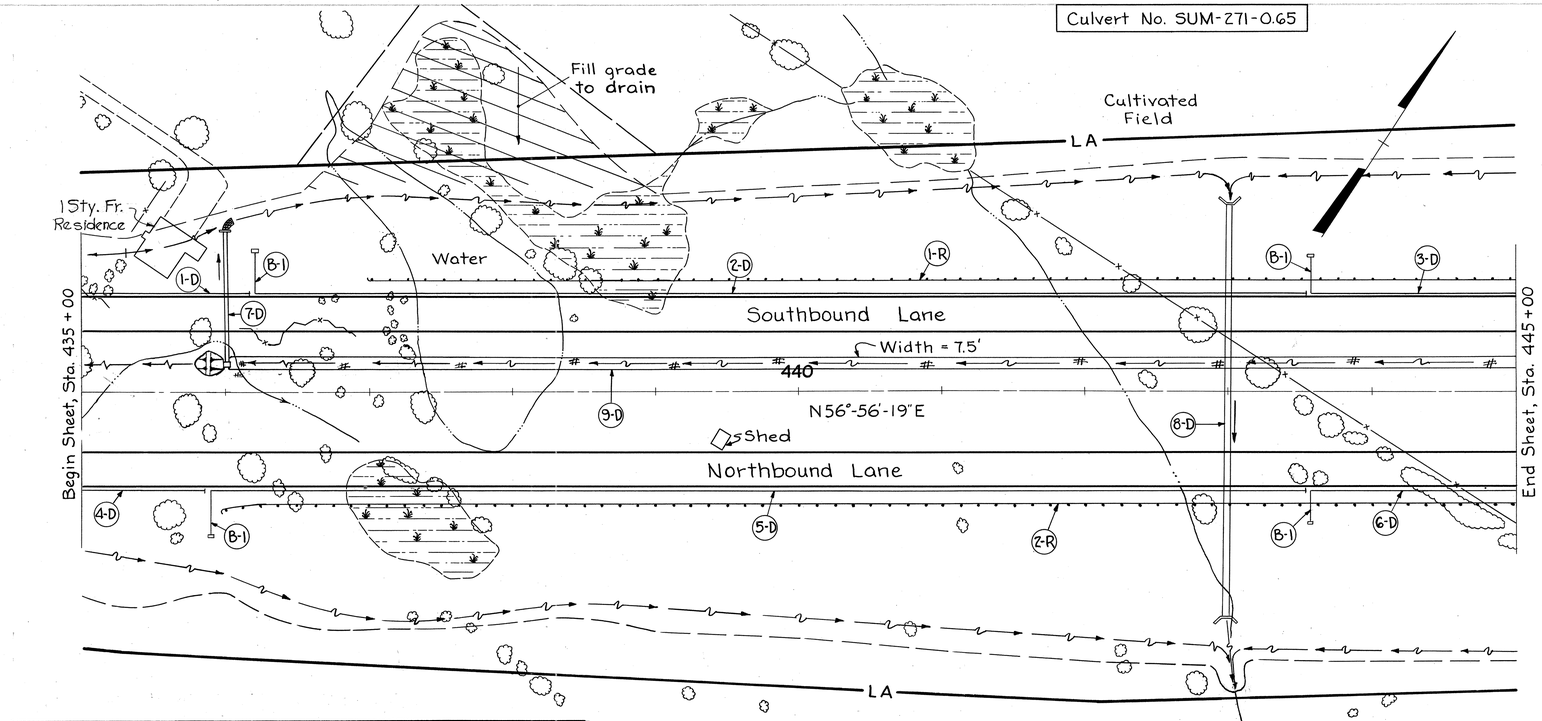
Bridge No. SUM-271-0046
Type: Continuous welded girders with reinforced concrete deck and substructure.
Spans: 63'-10" ; 98'-2" ; 98'-2" ; 63'-10"
Roadway: 24'-0" face to face of 2'-0" safety curbs
Load Frequency: C.F. = 130 (57)
Skew: 33°-50'-00" (R.F.)
Wearing Surface: 1" Monolithic Concrete
Approach Slabs: AS-1-54 (25' Long)
Alignment: Tangent

ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	I-1 Class I-3 Pipe Deep 6" Lin. Ft.	I-1 Class I-3 Pipe Shallow 6" Lin. Ft.	T-15 Guard Rail Lin. Ft.	L-10 Sodding Sq. Yd.	L-120 Jute Matting Sq. Yd.	SEE SHEET NO.
1-D	425+00 to 435+00	Lt.	950	50				
2-D	425+00 to 435+00	Rt.	950	50				
3-D	425+00 to 431+00	Rt.					500	
4-D	425+00 to 433+00	Lt.				1020		
1-R	431+75 to 432+75	Rt.			100			
2-R	433+53 to 434+53	Lt.			100			
TOTALS			1900	100	200	1020	500	

Sta. 425+00 to 435+00

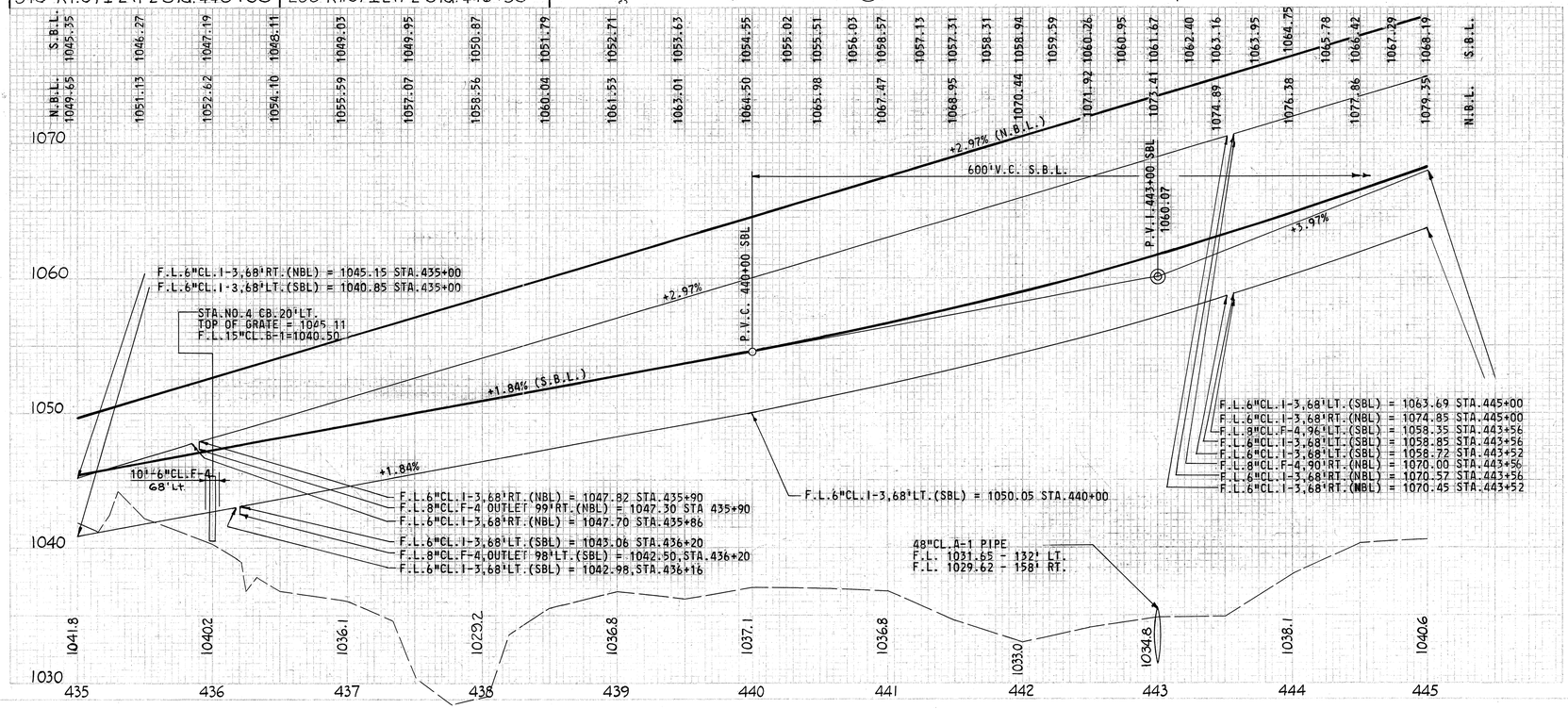
Culvert No. SUM-271-0.65



B.M.# E-41B Elev. 1038.99
M.S. in 10" W. Cherry
340' Rt. of I-271 & Sta. 440+00

B.M.# E-42 Elev. 1043.07
M.S. in Base of 16" Wild Cherry
205' Rt of I271 & Sta. 446+50

(B-1) See Detail Sheet No. 130



SUMMIT COUNTY
MED-271 - 4.53
SUM-271 - 0.00

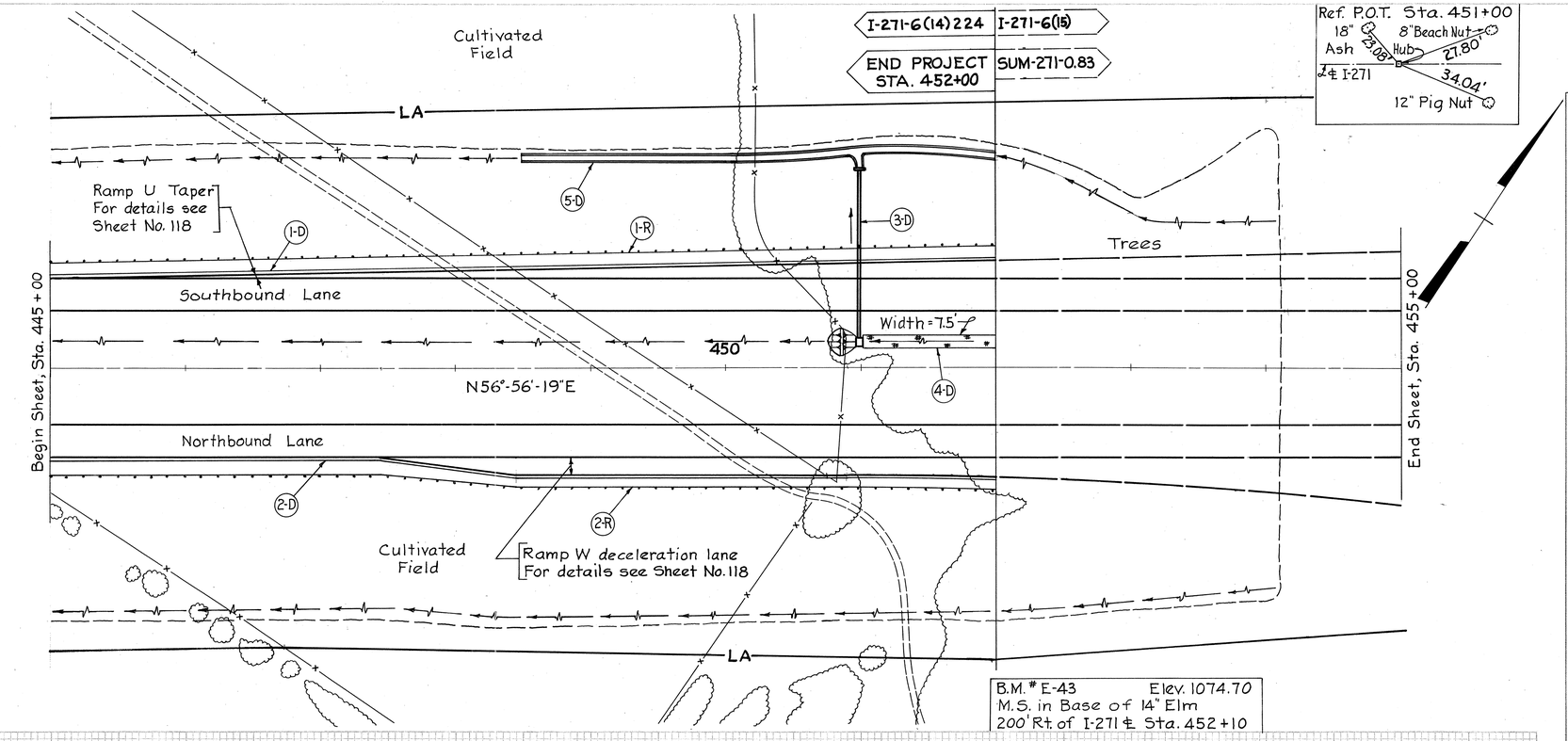
FED. RD. DIVISION	STATE	PROJECT	
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ESTIMATED QUANTITIES

REF. No.	STATION TO STATION	SIDE	I-1 Class B-1 Pipe 15" Lin. Ft.	I-1 Cl. A-1 Sec. W&M Rqd. Extra 48" Lin. Ft.	I-1 Cl. I-3 Pipe Shallow 6" Lin. Ft.	I-1 Class F-4 Pipe 6" Lin. Ft.	I-1 Class F-4 Pipe 8" Lin. Ft.	I-2 Masonry Cu. Yd.	I-5 Pipe Specials Class I-3 Elbow 6"-90° Each	I-8 Std. No. 4 C.B. Each	I-10 Dumped Rock Channel Protection Cu. Yd.	I-10 Sodding Sq. Yd.	L-120 Jute Matting Sq. Yd.	L-15 Guard Rail Lin. Ft.	SEE SHEET NO.
1-D	435+00 to 436+16	Lt.			116	10			1						
2-D	436+20 to 443+52	Lt.			714		10		1						
3-D	443+56 to 445+00	Lt.			162		10								
4-D	435+00 to 435+86	Rt.			86				1						
5-D	435+90 to 443+52	Rt.			783		10		1						
6-D	443+56 to 445+00	Rt.			156		10	0.3		1	2	2	750	800	97
7-D	436+00	Lt.	90	290				17.0				8		900	124
8-D	443+00														
9-D	436+00 to 445+00	Lt.											750		
1-R	437+00 to 445+00	Lt.													
2-R	436+00 to 445+00	Rt.													
	TOTALS		90	290	2077	10	40	17.3	4	1	2	10	750	1700	

Sta. 435+00 to 445+00



PROFILE ON NEXT SHEET

SUMMIT COUNTY
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FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	I-1 Class B-1 Pipe 15" Lin. Ft.	I-1 Class F-4 Pipe 15" Lin. Ft.	I-1 Class F-4 Pipe 6" Lin. Ft.	(Class 1-3 Pipe Shallow 6" Lin. Ft.	I-2 Masonry Cu. Yd.	I-5 Pipe Specials Class F-4 30° Bend 15" Each	I-8 Std. No-4 C.B. Each	I-10 Mod. Std. Type I Paved Gutter 4' Reflem Lin. Ft.	I-15 Guard Rail Lin. Ft.	L-10 Sodding Sq. Yd.	L-120 Jute Matting Sq. Yd.	SEE SHEET NO.
1-D	445+00 to 452+00	Lt.			10	700						2	83	102
2-D	445+00 to 452+00	Rt.				700								
3-D	451+00	Lt.	70	62			0.3	2	1					
4-D	451+00 to 452+00	Lt.										117		
5-D	448+50 to 452+00	Lt.								350	700			
1-R	445+00 to 452+00	Lt.									700			
2-R	445+00 to 452+00	Rt.												
	TOTALS		70	62	10	1400	0.3	2	1	350	1400	119	83	

PLAN • Sta. 445+00 to 455+00

FED. RD. DIVISION	STATE	PROJECT	
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S.B.L. 1068.19 1069.10 | 1071.00 | 1071.98 | 1073.96 | 1075.95 | 1077.93 | 1079.92 | 1081.90 | 1083.89 | 1085.87 | 1087.86 | 1089.84 | 1091.83 | 1093.81 | 1095.80 | 1097.78 | 1099.77 | 1101.75 | 1103.74 | 1105.72 | 1107.71 | S.B.L.

N.B.L. 1079.35 | 1080.83 | 1082.32 | 1083.80 | 1085.29 | 1086.77 | 1088.26 | 1089.74 | 1091.23 | 1092.71 | 1094.20 | 1095.68 | 1097.17 | 1098.65 | 1100.14 | 1101.62 | 1103.11 | 1104.59 | 1106.08 | 1107.56 | 1109.05 | N.B.L.

1130
1120
1110
1100
1090
1080
1070
1060
1050
1040

600' V.C.
S.B.L.

P.V.T. 446+00

F.E. 6" Cl. I-3, 80' Rt. (N.B.L.) = 1084.30 Sta. 448+45
F.E. 6" Cl. I-3, 68' Rt. (N.B.L.) = 1082.12 Sta. 447+45
F.E. 6" Cl. I-3, 68' Rt. (N.B.L.) = 1074.85 Sta. 445+00
F.E. 6" Cl. I-3, 68' Lt. (S.B.L.) = 1063.69 Sta. 445+00

F.E. 6" Cl. I-3, 70' Lt. (S.B.L.) = 1067.45 Sta. 446+00

F.E. 6" Cl. I-3, 82.6' Lt. (S.B.L.) = 1091.25 Sta. 452+00
F.E. 6" Cl. I-3, 81.6' Rt. (N.B.L.) = 1095.42 Sta. 452+00

+2.97% (N.B.L.)
+2.97%
+2.97%
+2.78%
+3.97% (S.B.L.)
+3.97%

Subgrade

10'-6" Cl. F-4

Std. No. 4 C.B., 20' Lt.
Top of Grate = 1089.91
F.E. 15" Cl. B-1 = 1086.20

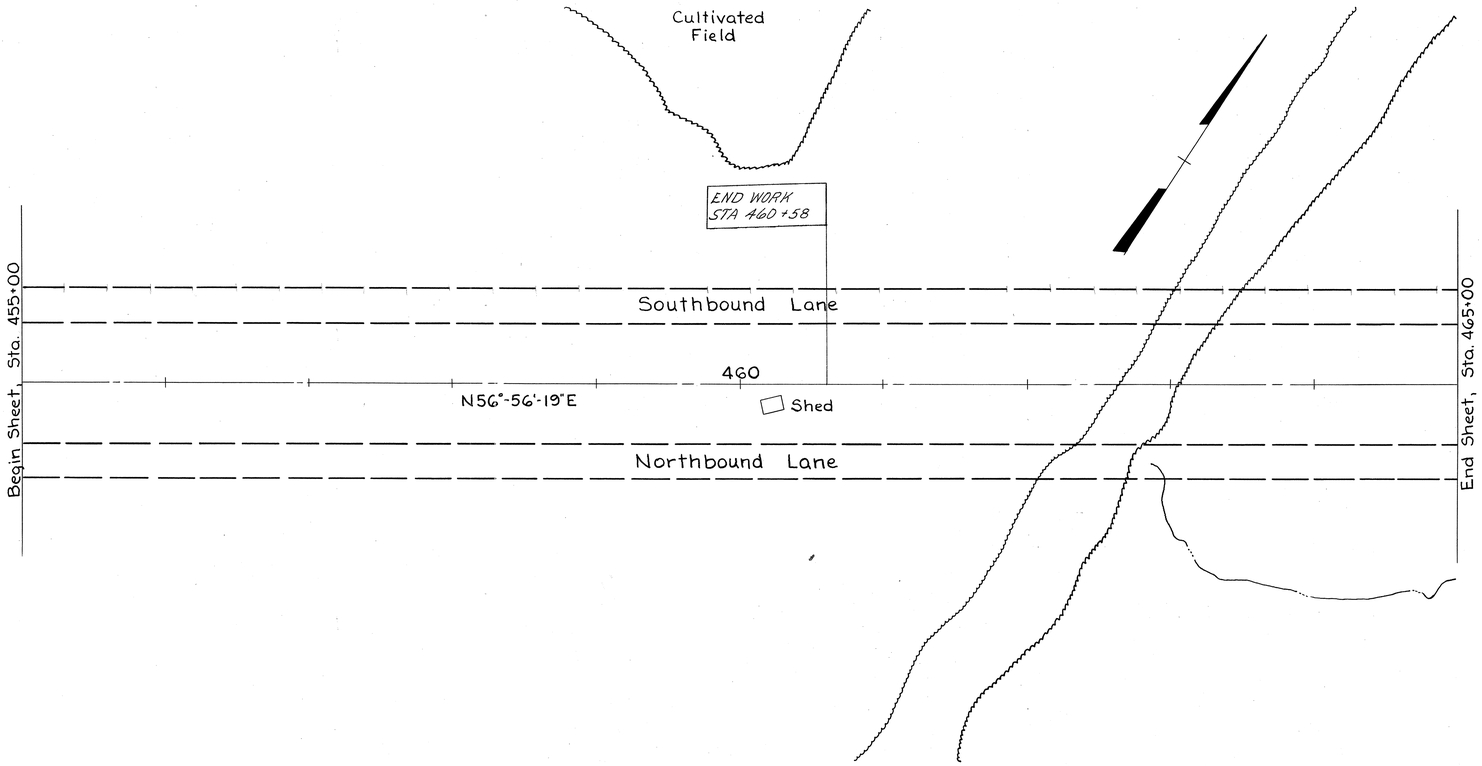
1040.6 | 1041.2 | 1043.9 | 1049.3 | 1054.9 | 1060.8 | 1065.2 | 1072.6 | 1083.0 | 1104.2 | 1112.2

445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455

PROFILE • Sta. 445+00 to 455+00

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SUM-271-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	





Sta. 455+00 to 465+00

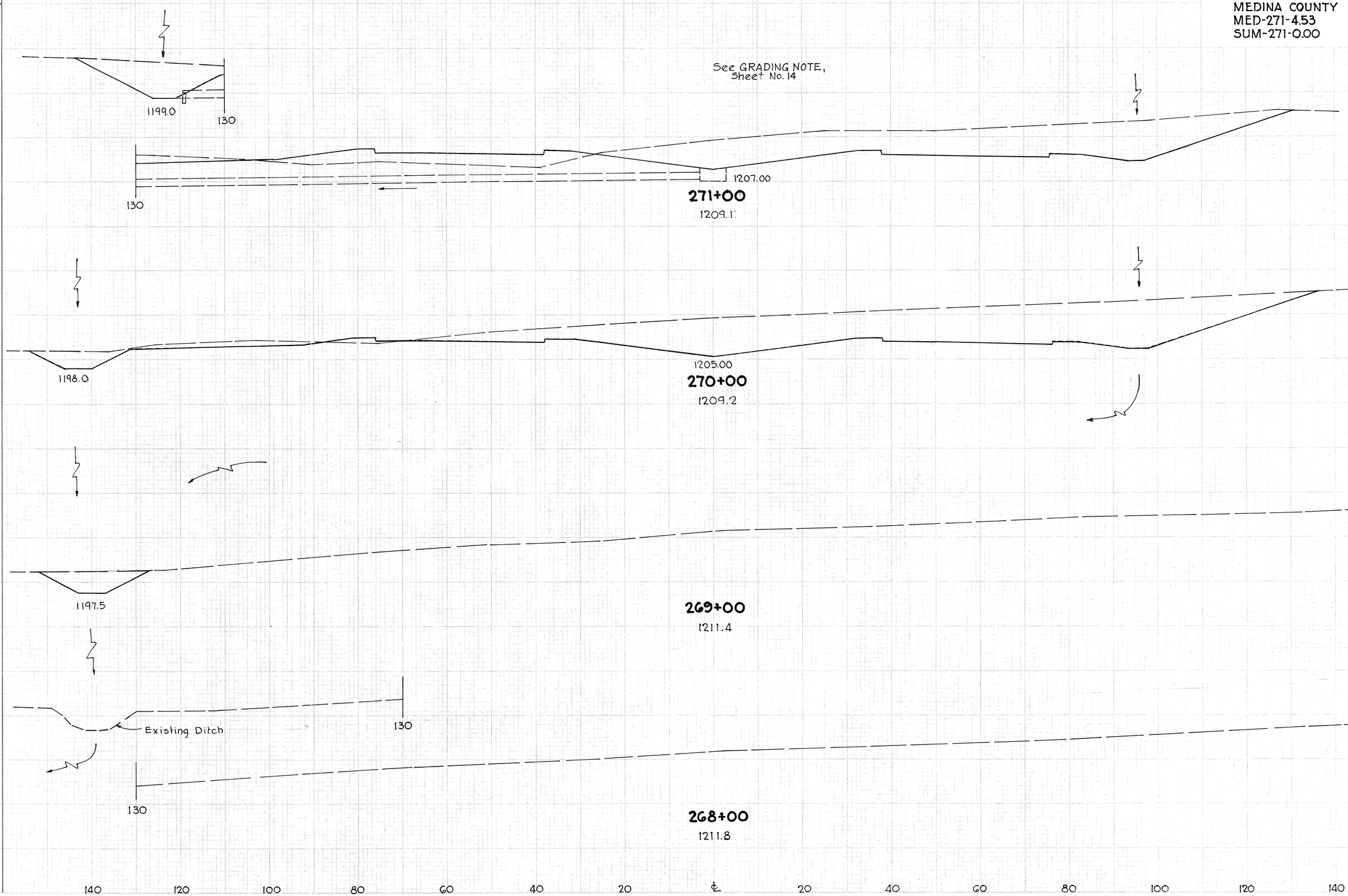
SEEDING	
END WIDTH	SQ. YDS.

FED. HWY. DIVISION	STATE	PROJECT
2	OHIO	I-271-G(14)-224

35A
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MEDINA COUNTY
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END AREA		Cu. YDS.	
CUT	FILL	CUT	FILL



STA. 268+00 to 271+00

PED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)2.24	

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SEEDING		END AREA		CU. YDS.	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL

See GRADING NOTE, Sheet No. 14

12 274+00 Bk.

67

12

1211.97
273+50
1207.8

67

170

12

1211.00
273+00
1205.8

67

170

12

1210.00
272+50
1205.8

67

12

1209.00
272+00
1204.8

BEGIN PROJECT STA. 272+00

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

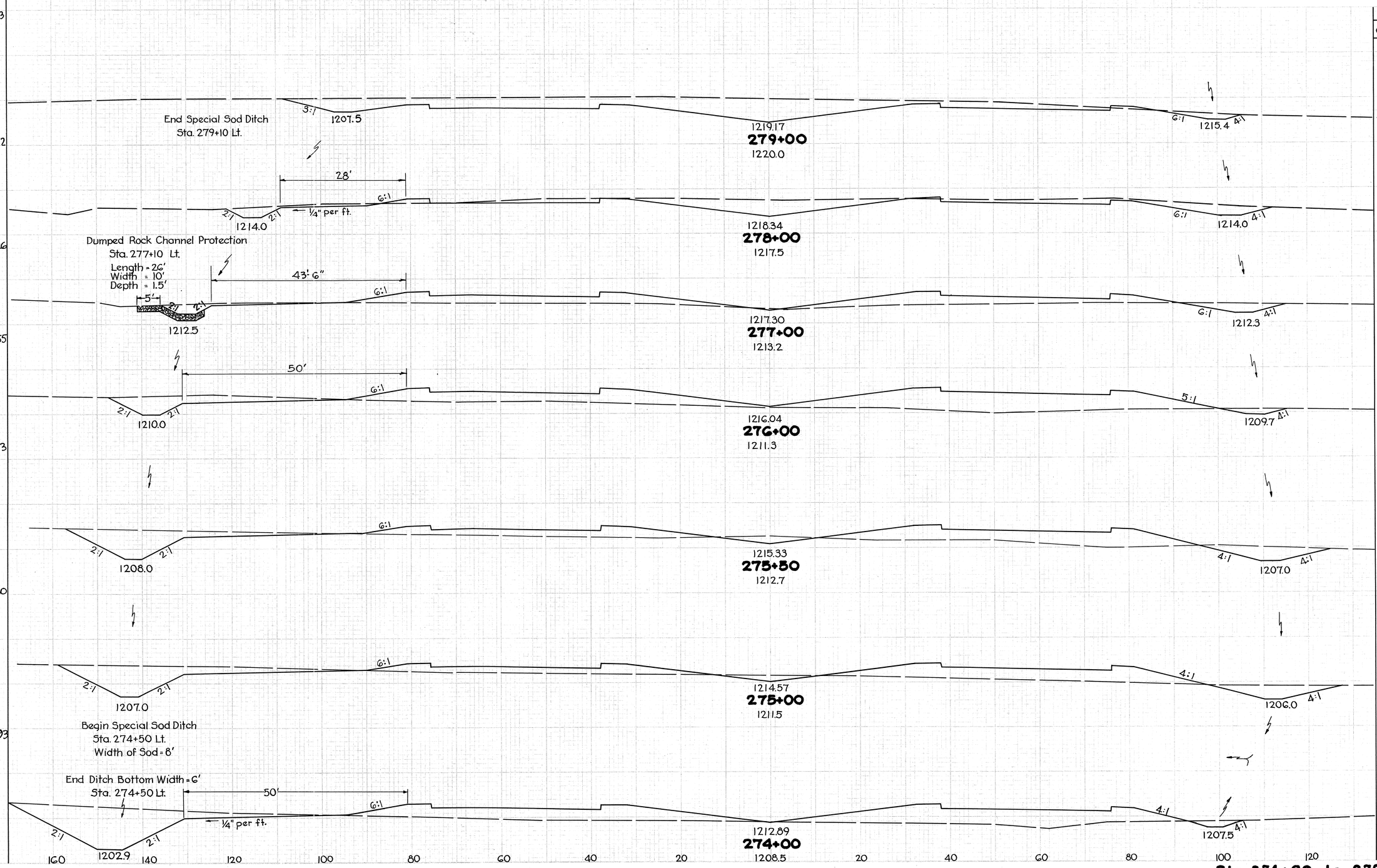
Sta. 272+00 to 273+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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MEDINA COUNTY
MED - 271 - 4.53
SUM - 271 - 0.00

Seeding End Width	Seeding Sq. Yds.		End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
	2123				1874	5
189		End Special Sod Ditch Sta. 279+10 Lt.	470	2		
	2172				1359	27
202			264	12		
	2326	Dumped Rock Channel Protection Sta. 277+10 Lt. Length = 26' Width = 10' Depth = 1.5'			594	510
216			57	264		
	2455				287	1455
226			98	522		
	1343				282	718
244			206	319		
	1360				402	573
246			228	300		
	2793	Begin Special Sod Ditch Sta. 274+50 Lt. Width of Sod = 8'			925	1435
256		End Ditch Bottom Width = 6' Sta. 274+50 Lt.	271	475		



Sta. 274+00 to 279+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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MEDINA COUNTY
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Seeding End Width	Seeding Sq. Yds.	Station	Left	Center	Right	End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
	2018							277	1026
177			G:1	1219.67	G:1 / 4:1	95	159		
	1950	285+00		1216.9	1215.4			450	572
174			G:1	1220.12	G:1 / 4:1	149	149		
	1881	284+00		1218.1	1216.0			446	424
164			G:1	1220.36	8:1 / 4:1	92	79		
	1839	283+00		1218.1	1217.7			470	175
166			G:1	1220.38	G:1	162	15		
	1947	282+00		1220.1				1221	28
184			G:1	1220.19	G:1	497	0		
	2097	281+00		1221.5				1923	0
193			G:1	1219.79	G:1	542	0		
		280+00		1219.1					

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

Sta. 280+00 to 285+00

FED. ID. DIVISION	STATE	PROJECT	
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MEDINA COUNTY
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SUM - 271 - 0.00

SEEDING END WIDTH	SEEDING SQ. YDS.		END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
	1452				39	5190
260		4:1 1202.4 — 1214.71 **290+50** 1199.9 — 4:1 1197.7	19	2914		
	1497				50	5544
262		4:1 1200.9 — 1215.22 **289+98.4** 1200.0 — 4:1 1199.9	34	2889		
	2786				122	9335
247		4:1 1202.1 — 1216.18 **289+00** 1203.9 — 4:1 1204.0	33	2234		
	2625				116	6979
225		4:1 1206.2 — 1217.16 **288+00** 1207.2 — 4:1 1206.4	29	1534		
	2386				96	5062
204		4:1 1210.2 — 1218.14 **287+00** 1209.9 — 4:1 1208.8	22	1199		
	2171				143	2952
186		4:1 1214.8 — 1219.01 **286+00** 1215.3 — 5:1 1212.8	55	395		

Begin Special Sod Ditch
Sta. 289+25 Rt.
Width of Sod = 8'

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

Sta. 286+00 to 290+50

FED. RD. DIVISION	STATE	PROJECT
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MEDINA COUNTY
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Seeding End Width	Seeding Sq. Yds.	End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
229	2483			2252	657
	2625				
243					
	2741	375	327		
				746	2642
250					
	2794	28	1099		
				64	5398
252					
		7	1815		
	2860				
				56	8347
262					
		23	2692		

3:1 — 1210.30 — **295+00** — 1211.6 — 6:1 — 1203.3 — 6:1

Estimated Quantities
I-1 15" Cl. B-1 pipe = 120 L.F.
I-2 Masonry = 0.3 C.Y.
I-8 Std. No. 4 C.B. = 1 Each
L-10 Sodding = 2 Sq.Yd.
I-10 Dumped Rock Channel Protection = 2 C.Y.

Std. No. 4 C.B.
Top of Grate = 1206.81
Ø 15" Cl. B-1 = 1202.81

3:1 — 1211.28 — **294+00** — 1209.4 — 4:1 — 10' Width = 4' Depth = 1.5' — 4:1 — 1200.0

120' of Cl. B-1 pipe @ 2.3%

End Jute Matting
Sta. 240+00 ℄ Median

Std. Type "E" Headwall
Ø = 1200.10

End Special Sod Ditch
Sta. 294+00 Rt.

8:1 — 6:1 — 1210.0 — 1212.26 — **293+00** — 1205.3 — 4:1 — 1196.5

Begin Jute Matting
Sta. 292+50 ℄ Median
Width = 7.5'

4:1 — 6:1 — 1208.2 — 1213.24 — **292+00** — 1203.1 — 4:1 — 1196.0

Begin Special Sod Ditch
Sta. 291+30 Rt.
Width of Sod = 8'

4:1 — 4:1 — 1204.5 — 1214.22 — **291+00** — 1200.6 — 4:1 — 1195.8

End Special Sod Ditch
Sta. 291+10 Rt.

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

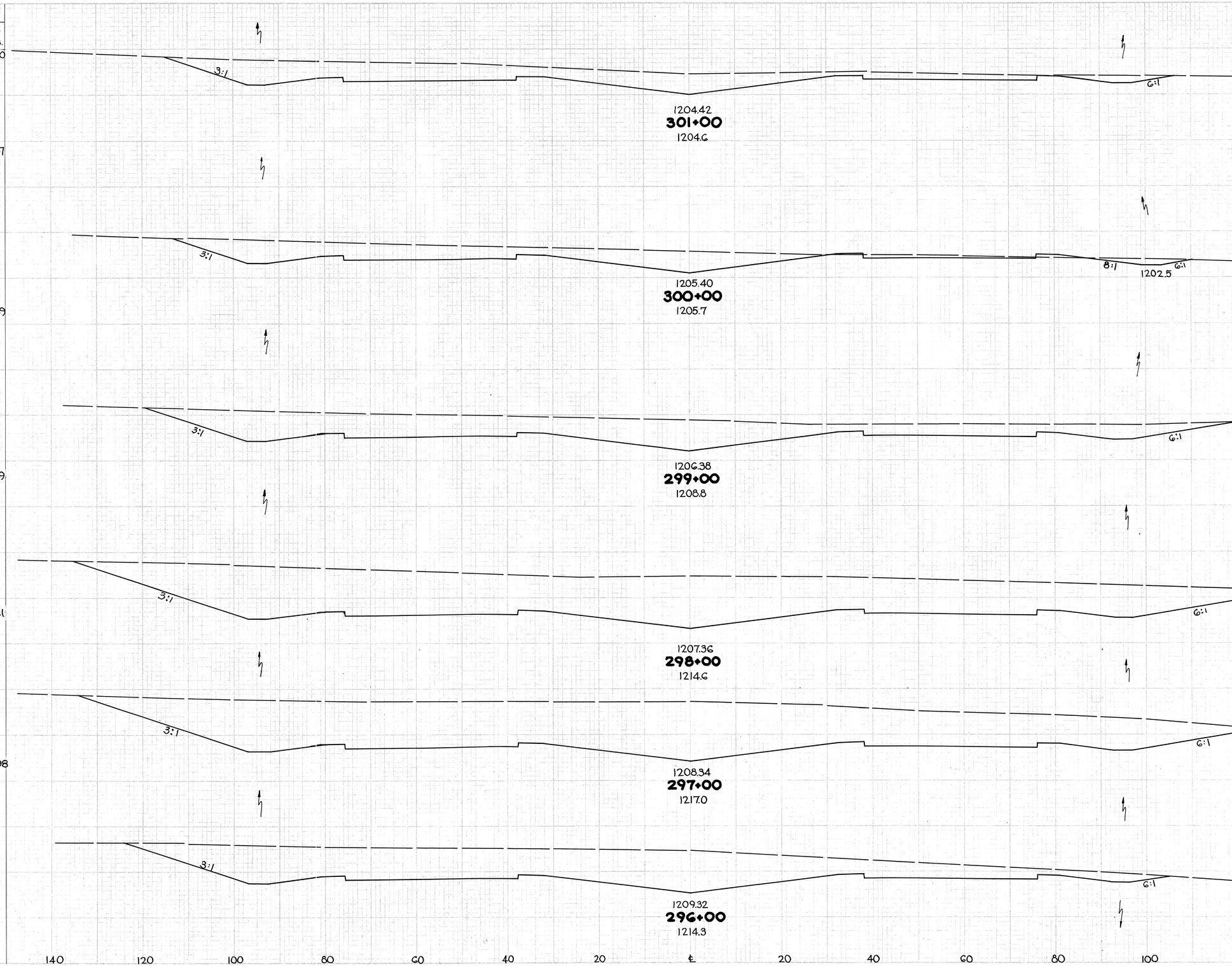
Sta. 291+00 to 295+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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MEDINA COUNTY
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SEEDING END WIDTH	SEEDING SQ. YDS.	
214	2400	
	2407	
219		
	2449	
221		
	2479	
225		
	2541	
232		
	2498	
217		



END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
		1944	13
600	0		
		2508	13
449	7		
		5473	0
905	0		
		7149	0
2050	0		
		6182	0
2135	0		
		3786	51
1204	0		

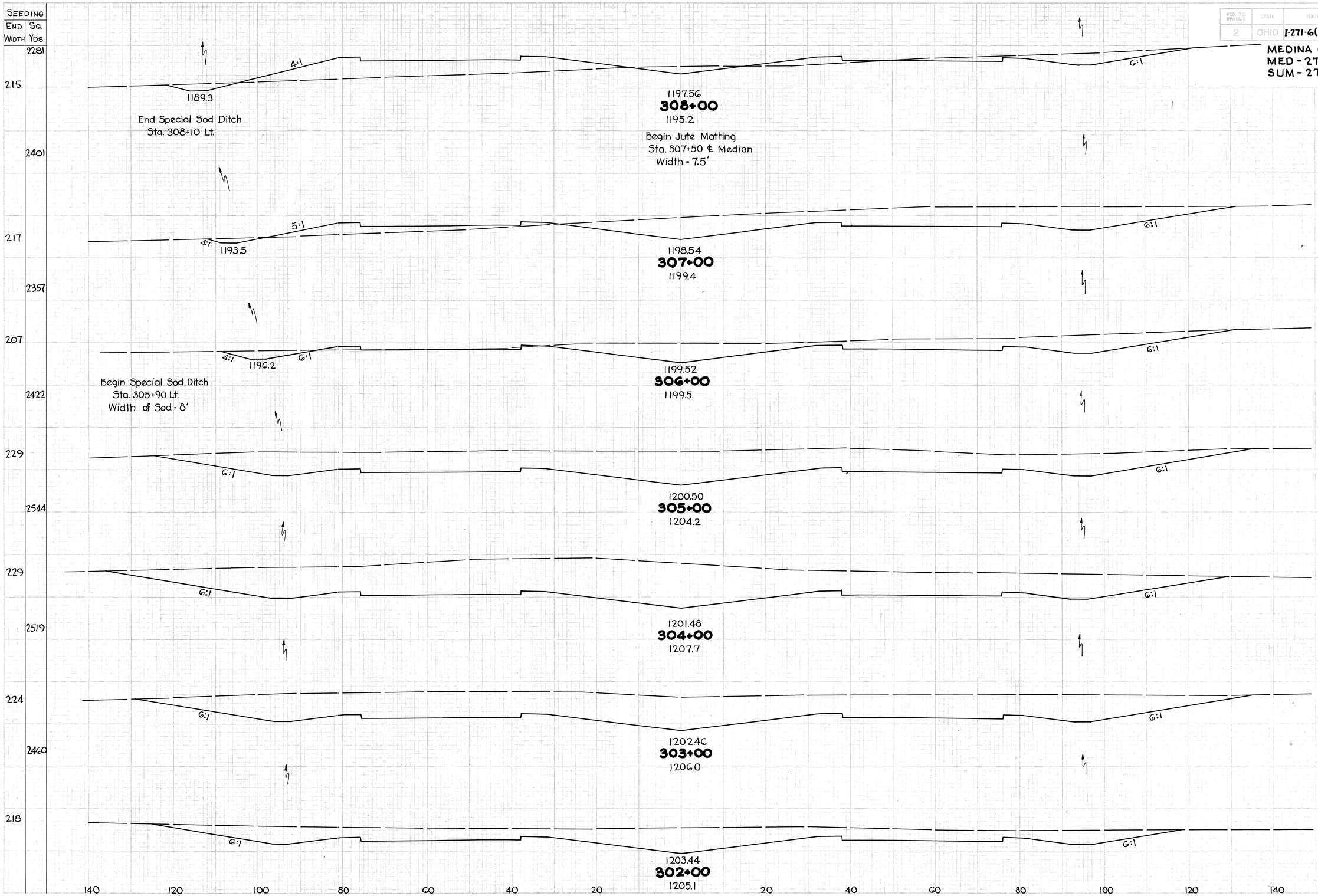
Sta. 296+00 to 301+00

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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MEDINA COUNTY
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SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
	2281			1411	655
215					
	2401	146	280		
				1948	146
217		615	72		
	2357			3040	11
207		436	6		
	2422			5231	0
229		1205	0		
	2544			5561	0
229		1619	0		
	2519			3880	0
224		1383	0		
	2460			2430	0
218		711	0		



Sta. 302+00 to 308+00

FED. RD. DIVISION	STATE	PROJECT	
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Seeding End Width	Seeding Sq. Yds.
212	1167
164	
207	2329
212	2339
209	2266
199	2199
196	2179
195	

Begin Special Sod Ditch
Sta. 314+40 Lt.
Width of Sod = 8'

4:1 — 1181.5 — 1188.64 — ℄ = 1185.7 — **314+50** 1185.2 — 1191.16 — 4:1 — 1183.5

Begin Jute Matting
Sta. 314+50 ℄ Median
Width = 7.5'

4:1 — 1182.2 — 1189.58 — ℄ = 1186.4 — **314+00** 1183.9 — 1191.68 — 4:1 — 1184.7

4:1 — 1182.9 — 1191.31 — ℄ = 1187.8 — **313+00** 1186.4 — 1192.66 — 4:1 — 1185.2

End Special Sod Ditch
Sta. 312+10 Rt.

4:1 — 1183.4 — 1192.88 — ℄ = 1189.0 — **312+00** 1187.3 — 1193.64 — 5:1 — 1188.0

4:1 — 1186.3 — 1194.28 — ℄ = 1190.2 — **311+00** 1189.5 — 1194.62 — 6:1 — 1190.2

Begin Special Sod Ditch
Sta. 310+90 Lt.
Width of Sod = 8'

4:1 — 1187.5 — 1195.52 — ℄ = 1191.2 — **310+00** 1191.1 — 1195.60 — 6:1 — 1191.5

End Jute Matting
Sta. 309+00 ℄ Median

Std. No. 4 C.B.
Top of Grate = 1192.11
℄ 15" Cl. B-1 = 1189+00

Estimated Quantities
I-1 - 15" Cl. B-1 pipe = 108 L.F.
I-2 - Masonry = 0.3 C.Y.
I-8 - Std. No. 4 C.B = 1 Ea.
L-10 Sodding = 2 S.Y.
I-10 Dumped Rock Channel Protection = 2 C.Y.

10' Width = 4' Depth = 1.5'

4:1 — 1188.0 — Std. Type "E" Headwall ℄ = 1188.00 — 108' of 15" Cl. B-1 pipe @ 1.0% — 1196.58 — **309+00** 1192.6 — 8:1 — 6:1

Begin Special Sod Ditch
Sta. 308+90 Rt.
Width of Sod = 8'

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

End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
		86	1723
64	847		
		100	3607
28	1014		
		102	3291
26	933		
		113	2993
29	844		
		113	2125
32	664		
		151	1567
29	483		
		369	1192
53	363		

Sta. 309+00 to 314+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	1-271-6(14)224	

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SEEDING END WIDTH	SEEDING SQ. YDS.
219	2474
229	1244
207	254
216	1174
209	1181
208	2319

Begin Special Sod Ditch
Sta. 318+00 Lt.
Width of Sod = 9'

End Special Sod Ditch
Sta. 318+00 Lt.
Width of Sod = 8'

Begin Special Sod Ditch
Sta. 317+00 Rt.
Width of Sod = 12'

End Special Sod Ditch
Sta. 317+00 Rt.
Width of Sod = 8'

16.5'
Width = 4'
Depth = 1.5'

Std. Type "E" Headwall
℄ 1178.20

86' of 15" Cl. B-1 pipe @ 1.0%

Std. No. 4 C.B.
Top of Grate = 1183.03
℄ 15" Cl. B-1 = 1179.00

End Jute Matting
Sta. 316+00 ℄ Median

Estimated Quantities

I-1	15" Cl. B-1 pipe	= 86 L.F.
I-2	Masonry	= 0.3 C.Y.
I-8	Std. No. 4 C.B.	= 1 Ea.
L-10	Sodding	= 2 S.Y.
I-10	Dumped Rock Channel Protection	= 4 C.Y.

END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
		942	3289
220	987		
		529	1730
350	881		
		436	1772
120	1032		
		186	2249
80	1397		
		111	2278
39	1062		
		196	3359
67	753		

Sta. 315+00 to 318+00

FED. ROAD DIVISION	STATE	PROJECT
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SEEDING END WIDTH	SEEDING SQ. YDS.
256	2780
	2744
238	
	2719
251	
	2744
243	
	2604
225	
251	
226	

END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
		4295	1398
1039	400		
		3210	1877
694	613		
		2817	1901
826	413		
		2782	1780
676	548		
		1699	2329
242	709		
		981	2774
288	788		

324+00
1168.4

1160.7 — 2:1 — 1163.70 — 1171.51 — 4:1 — 1162.0 — 2:1

323+00
1167.2

1163.7 — 2:1 — 1166.70 — 1174.46 — 4:1 — 1164.5 — 3.5:1

322+00
1167.8

1166.7 — 3:1 — 1169.70 — 1177.20 — 4:1 — 1167.5 — 5′

Dumped Rock Channel Protection
Sta. 322+30 Rt.
Length = 35′
Width = 10′
Depth = 1.5′

321+00
1170.7

1169.7 — 3:1 — 1172.20 — 1179.74 — 4:1 — 1170.0

320+00
1173.00
Begin Jute Matting
320+00 ℄ Median
Width = 7.5′

1172.6 — 4:1 — 1175.62 — 1182.07 — 4:1 — 1171.8

319+00
1174.8

1175.0 — 3.5:1 — 1178.36 — 1184.19 — 4:1 — 1174.0

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

Sta. 319+00 to 324+00

FED. ROD. DIVISION	STATE	PROJECT	
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SEEDING END WIDTH	SEEDING Sq. Yds.	END AREA CUT	END AREA FILL	Cu. Yds. CUT	Cu. Yds. FILL
	1180			3331	222
254		2220	144		
	2841			9127	363
257		2708	52		
	2834			8675	267
252		1976	93		
	2774			5568	692
246		1192	281		
	2731			4578	1178
245		1280	355		

329+00
1152.8
1145.7
1148.70
1154.57
1151.0
2:1
8:1
2:1

328+00
1154.2
1148.7
1151.70
1158.04
1154.5
2:1
2:1

327+00
1157.4
1151.7
1154.70
1151.61
1158.0
2:1
8:1
2:1

326+00
1161.1
1154.7
1157.70
1164.98
1160.0
2:1
6:1
2:1

Begin Special Sod Ditch
Sta. 320+00 Rt.
Width of Sod = 14'

325+00
1164.9
1157.7
1160.70
1168.35
1160.5
2:1
4:1
2:1

End Special Sod Ditch
Sta. 325+00 Rt.
Width of Sod = 12'

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

Sta. 325+00 to 329+00

FED. ROAD DIVISION	STATE	PROJECT
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Seeding End Width	Seeding Sq. Yds.
	2431
207	
	1242
240	
	1276
219	
	2759
278	
	1708
251	

End Special Sod Ditch
Sta. 332+25 Rt.

2:1 8:1 1137.8 1139.70 ℄ = 1137.7 1144.16 12:1 1/4:1 2:1

332+00
1147.0

2:1 8:1 1135.8 1141.20 ℄ = 1139.3 1145.90 12:1 1/4:1 2:1

331+50
1141.6

2:1 1142.70 ℄ = 1140.9 1147.63 12:1 1/4:1 2:1

331+00
1140.5

End Jute Matting
Sta. 330+75 ℄ Median

2:1 1145.70 1151.10 4:1 1138.0 2:1

330+00
1151.4

End Special Sod Ditch
Sta. 329+90 Rt.
Width of Sod = 14'

2:1 8:1 1147.44 1153.11 6:1 1147.7 2:1

329+42
1154.5

End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
		7662	25
1395	14		
		2331	20
1122	8		
		1842	114
866	115		
		5479	465
2092	135		
		4463	296
2062	140		

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

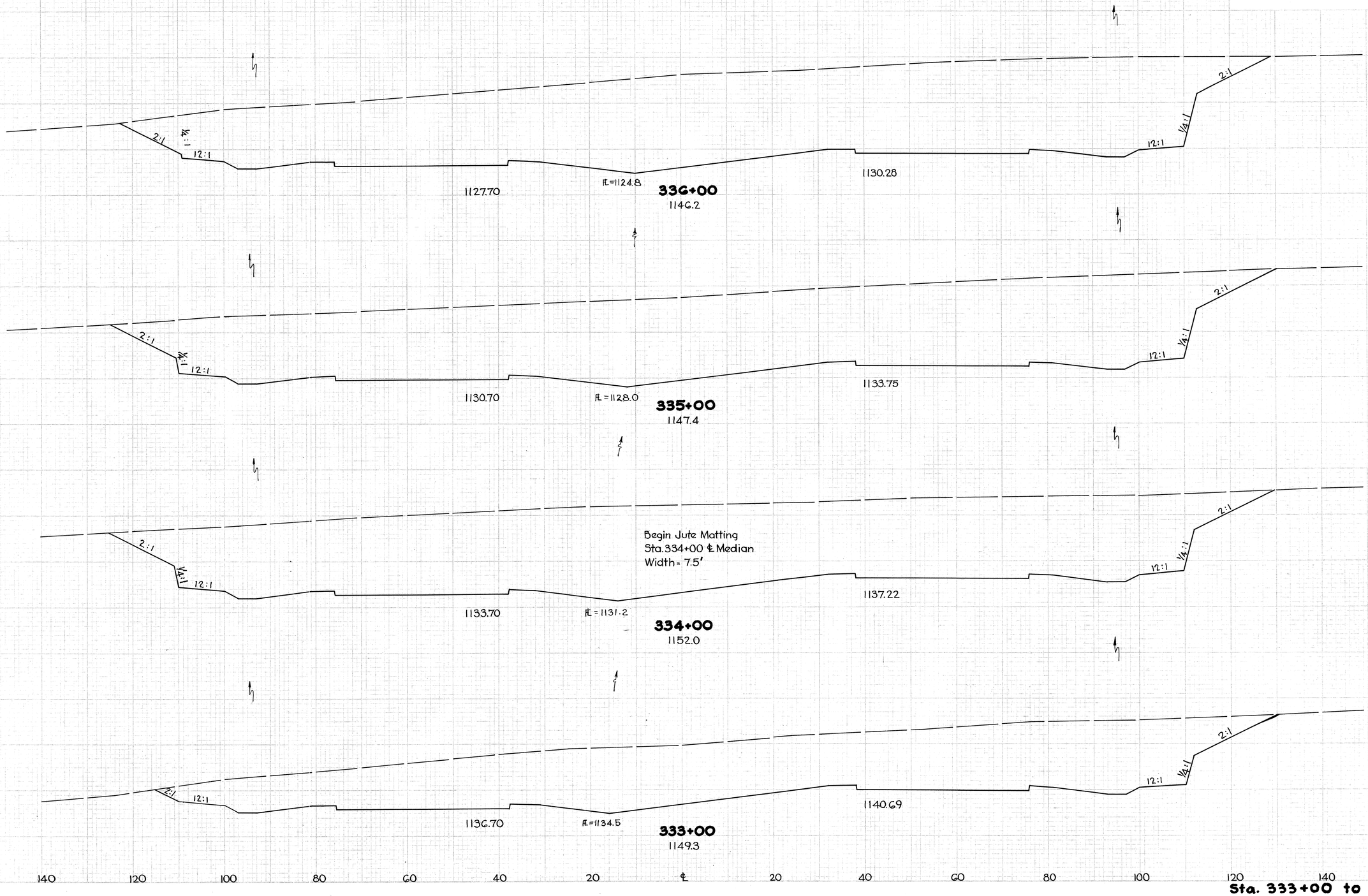
Sta. 329+42 to 332+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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178

MEDINA COUNTY
MED-271-4.53
SUM-271- 0.00

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
	2892			3972	0
254		4029	0		
				396	0
	1965	3916	0		
100				3374	0
	1090				
96		4007	0		
				7662	25
	1818				
		2742	0		
231					



Sta. 333+00 to 336+00

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	I-271-6(14)224

MEDINA COUNTY
MED-271- 4.53
SUM-271- 0.00

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
	3344			26207	0
296		6699	0		
	3182			20892	0
		4582	0		
277					
	3086			17721	0
278					
	3029	4988	0		
				18077	0
266		4773	0		

Begin Ditch Bottom Width = 6'
Sta. 340+00 Rt.

2:1, 1/4:1, 12:1

1115.70 — ℄ = 1111.8 — 1116.40

340+00
1144.0

1118.70 — ℄ 1117.2 — ℄ 1117.8 — 1119.87

339+00
1137.7

1121.70 — ℄ = 1118.3 — 1123.34

338+00
1141.4

150

2:1, 2:1
1142.0

1124.70 — ℄ = 1121.5 — 1126.81

337+00
1146.0

2:1, 6:1, 10'
1141.5

Sta. 337+15 Rt.
Dumped Rock Channel Protection
Depth = 1.5', Width = 8', Length = 36'

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

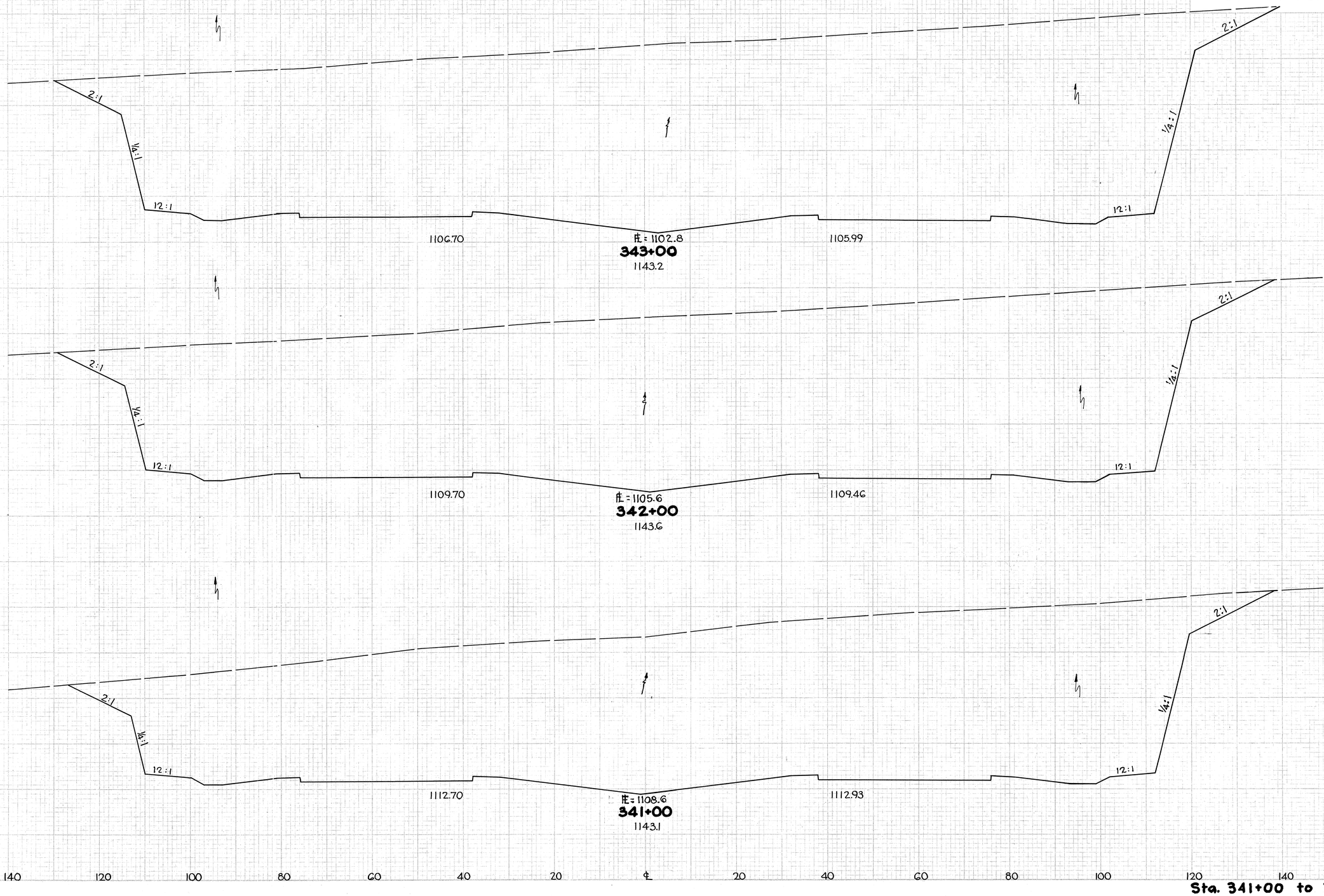
Sta. 337+00 to 340+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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MEDINA COUNTY
MED-271- 4.53
SUM- 271- 0.00

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
3665				33241	0
327		8844	0		
				31524	0
3587					
		8168	0		
318				28927	0
3470					
		7452	0		
306					



Sta. 341+00 to 343+00

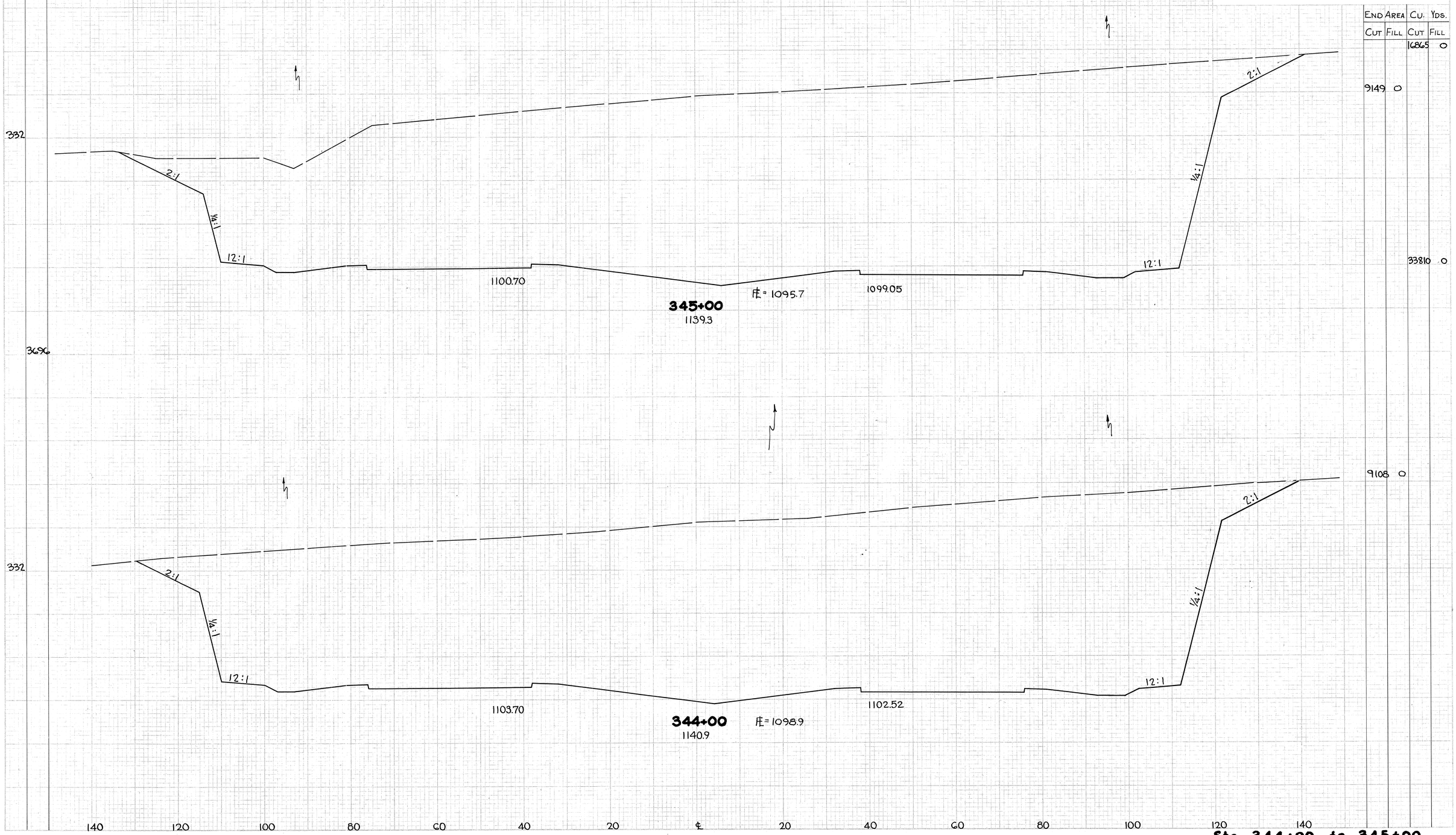
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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178

MEDINA COUNTY
MED-271- 4.53
SUM-271- 0.00

SEEDING END WIDTH	SEEDING Sq. Yds.
	1819
	3696

END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
		16865	0
9149	0		
		33810	0
9108	0		



Sta. 344+00 to 345+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

SEEDING	
END WIDTH	SQ. YDS.
	3262

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		30837	0
9352	0		
		17054	0
9065	0		

321

2:1
1097.70
Std. No. 4 C.B. 8.4' Rt.
Top of Grate = 1092.20
℄ 15" Cl. E-1 = 1088.70
℄= 1092.4
1095.58
12:1
1:1
1/4:1
2:1

346+00
1136.4

End Jute Matting
Sta. 346+00 ℄ Median

1788

322

2:1
1/4:1
12:1
1099.20
℄= 1094.0
1097.32
12:1
1/4:1
2:1

345+50
1137.0

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

Sta. 345+50 to 346+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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MEDINA COUNTY
MED-271-4.53
SUM-271- 0.00

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
				8780	0
	1091	8079	0		
				2494	0
312					

2:1 1094.70 ℄ = 1089.2 1092.11 12:1 1:1 1¼:1 2:1

347+00
1120.2

				8747	0
279					
317					

2:1 1094.94 ℄ = 1089.4 1092.39 12:1 1:1 1¼:1 2:1

346+92
1131.0

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

Sta. 346+92 to 347+00

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	I-271-6(14)224

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178

MEDINA COUNTY
MED-271- 4.53
SUM-271- 0.00

SEEDING END WIDTH	SEEDING SQ. YDS.
301	1583
904	
301	

END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
		9404	0
5847	0		
		6638	0
6737	0		

2:1
1092.93
℄ = 1087.3
1090.06
12:1
1:1
1/4:1
2:1

347+59
1117.0

Begin Jute Matting
Sta. 347+50 ℄ Median
Width = 7.5'

2:1
1093.74
℄ = 1088.1
1091.0
12:1
1:1
1/4:1
2:1

347+32
1112.8

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

Sta. 347+32 to 347+59

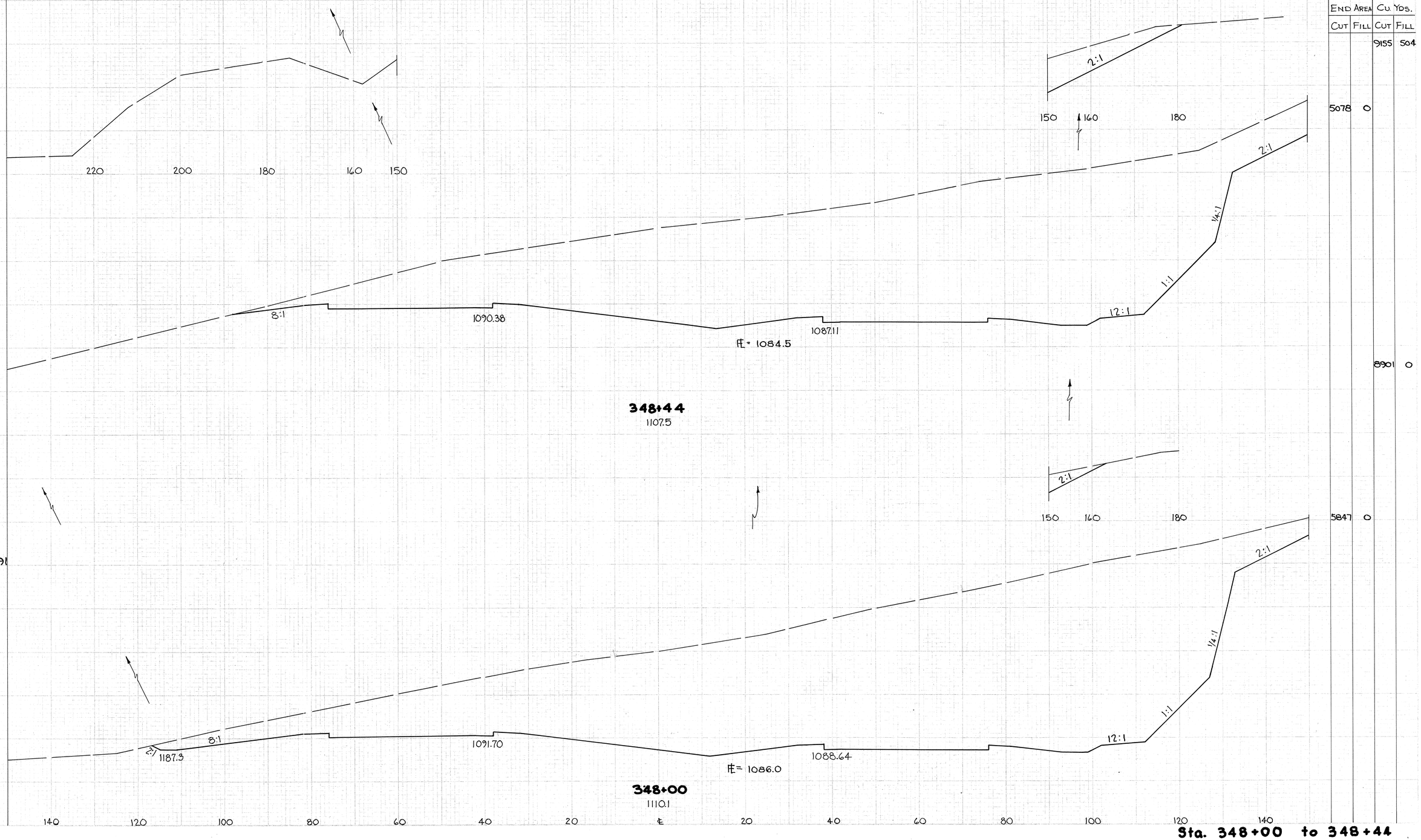
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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178

MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

SEEDING	
END WIDTH	SQ. YDS.
	2608
	462
	2091
	393

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		9155	504
5078	0		
		8901	0
5847	0		



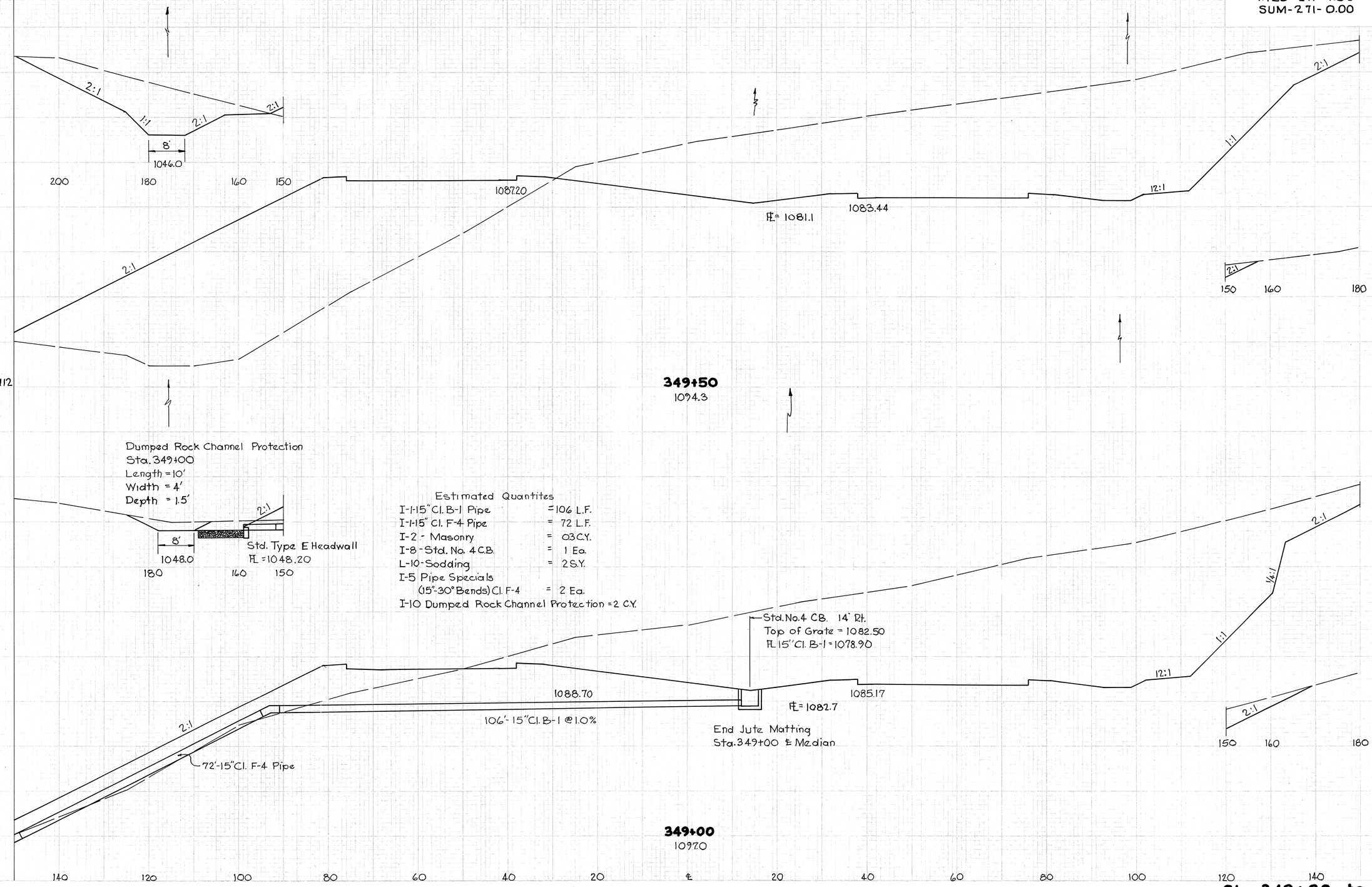
Sta. 348+00 to 348+44

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	I-271-6(14)224

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178

MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
384	2177			5499	4484
				3230	2201
376	2112			6307	2480
				3750	485



Sta. 349+00 to 349+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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178

MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

SEEDING	
END WIDTH	SQ. YDS.
2096	
383	
2178	
400	

END AREA		CU. YDS	
CUT	FILL	CUT	FILL
		2727	5587
1990	3123		
		4350	5337
2709	2641		

End Ditch Bottom Width = 6'
Sta. 350+75 Rt.

2:1
1:1
8'
1:1
1042.0
220 200 180 160 150
1084.20
℄ = 1077.9
1079.97
12:1
1:1
2:1

1/4"/Ft.
1:1
2:1
150
2:1
1:1
8'
1:1
1044.0
220 200 180 160 150
1085.70
℄ = 1079.5
1081.70
12:1
1:1
2:1

350+50
1075.5

350+00
1087.9

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

Sta. 350+00 to 350+50

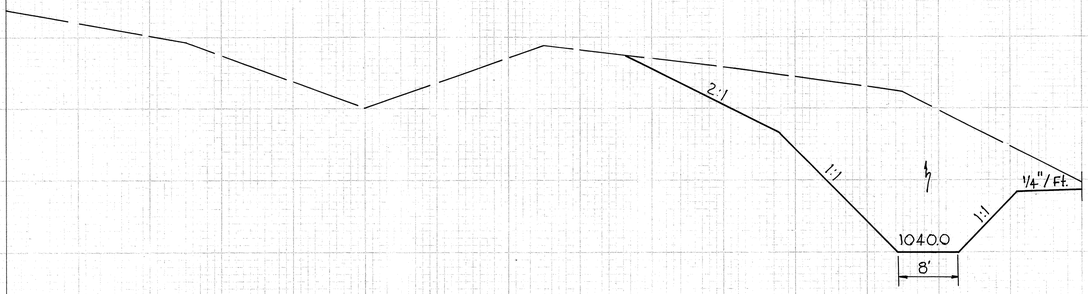
FED. NO. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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178

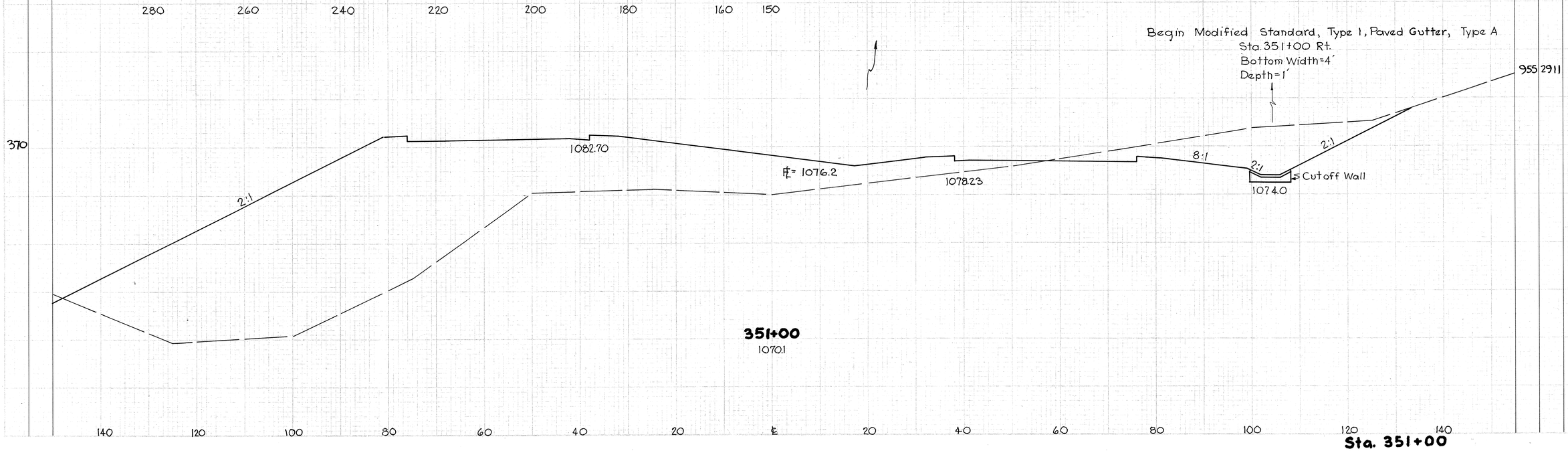
MEDINA COUNTY
MED-271-4.53
SUM-271- 0.00

SEEDING	
END WIDTH	SQ. YDS.
	2002

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		1219	4513



280 260 240 220 200 180 160 150



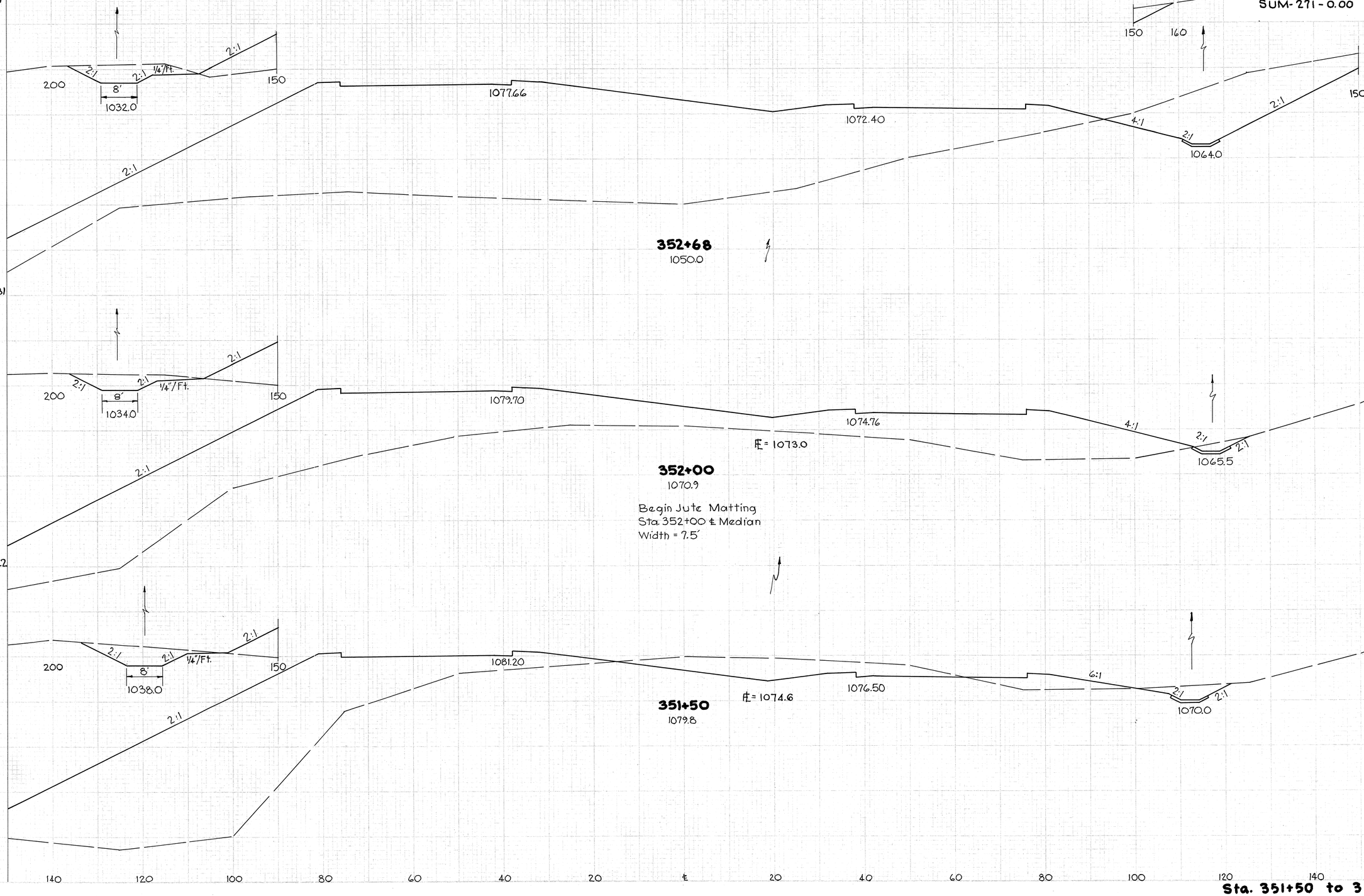
PED. DIV. OFFICIAL	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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178

MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

SEEDING END WIDTH	SEEDING SQ. YDS.
	377
	341
	2581
	342
	1922
	350

END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
		185	1480
510	4035		
		719	8269
60	2531		
		391	4161
361	1962		



Sta. 351+50 to 352+68

FED. AID DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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178

MEDINA COUNTY
MED - 271 - 4.53
SUM - 271 - 0.00

SEEDING END WIDTH	SEEDING SQ. YDS.
279	1517
309	1636
338	791

END AREA CUT	END AREA FILL	CU. YDS CUT	CU. YDS FILL
		324	6119
239	3504		
		399	6754
193	3790		
		277	3153
487	3950		

353+50
1056.4

220 180 160 150 2:1 2:1 1075.20 1069.56 4:1 2:1 2:1 1060.0

200 2:1 8' 2:1 180 1/4"/Ft. 160 150 2:1 2:1 1030.5 1076.70 1071.29 4:1 2:1 2:1 1061.6

353+00
10558

200 2:1 2:1 2:1 8' 2:1 180 1/4"/Ft. 160 150 1031.0 1077.36 1072.05 4:1 2:1 2:1 1062.5

352+78
1053.9

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

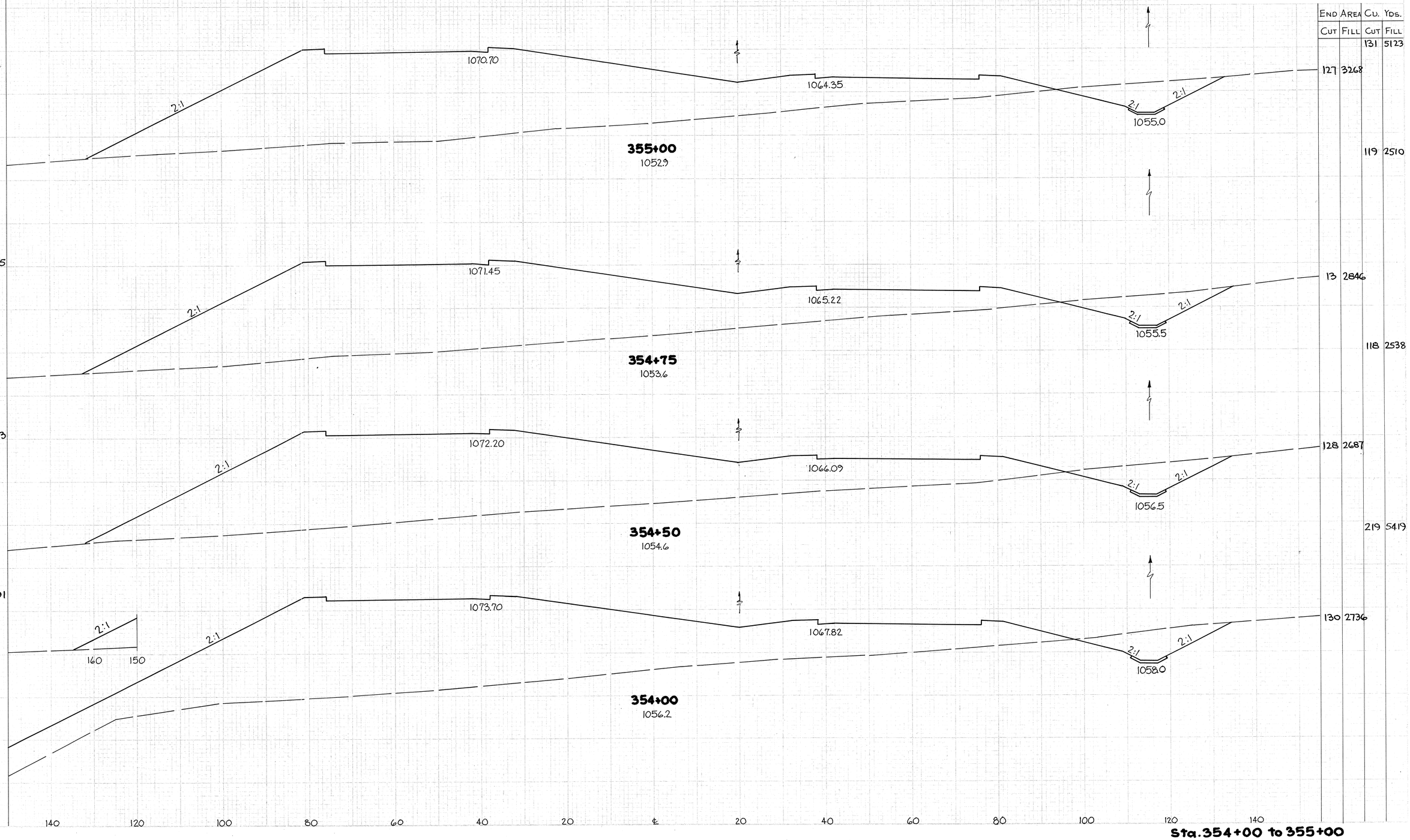
Sta. 352+78 to 353+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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MEDINA COUNTY
MED - 271 - 4.53
SUM - 271 - 0.00

SEEDING END WIDTH	SEEDING SQ. YDS.
235	1286
236	655
234	653
267	1391



END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
		131	5123
127	3268		
		119	2510
13	2846		
		118	2538
128	2687		
		219	5419
130	2736		

Sta. 354+00 to 355+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

G2
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MEDINA COUNTY
MED - 271 - 4.53
SUM - 271 - 0.00

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
	470			121	2081
244		166	3231		
				82	1182
	276	277	3153		
252				172	2735
	632	127	3268		
242				130	5661
	1306	13	2846		
228					

356+33
1045.7
1066.71
1059.73
1050.0
2:1
4:1
2:1
2:1

356+23
1042.7
1067.01
1060.08
1050.5
2:1
4:1
2:1
2:1

356+00
1047.7
1067.70
1060.88
1051.5
2:1
4:1
2:1
2:1

355+50
1051.7
1069.20
1062.62
1053.0
2:1
4:1
2:1
2:1

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

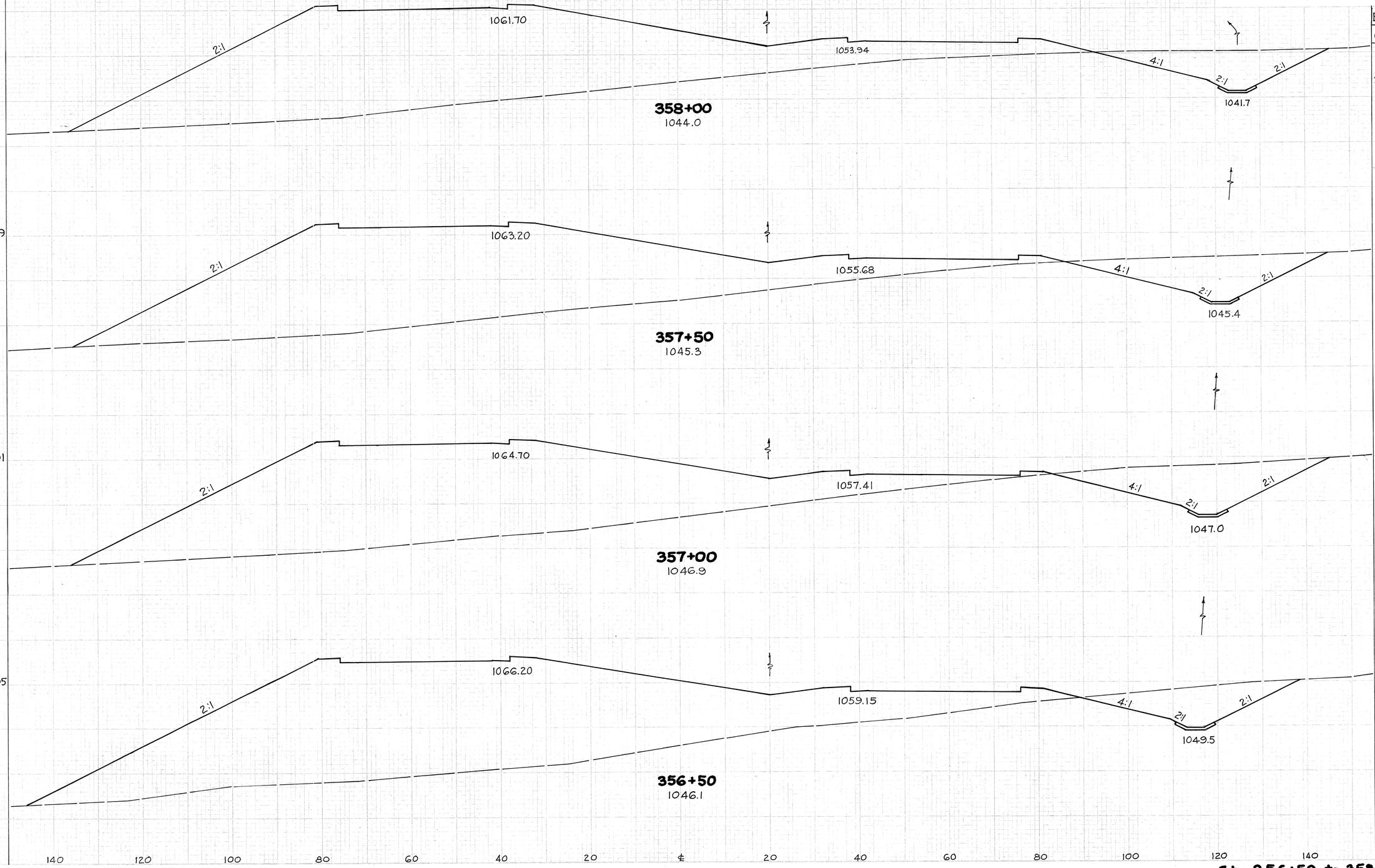
Sta. 355+50 to 356+33

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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178

MEDINA COUNTY
MED - 271 - 4.53
SUM - 271 - 0.00

SEEDING END WIDTH	SEEDING SQ. YDS.		END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
	1591				292	5458
			210	2776		
266					455	5055
	1449		280	2684		
256					515	4974
	1401		340	2689		
249					516	5615
	1395		217	3377		
254						



Sta. 356+50 to 358+00

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	I-271-6(14)224

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178

MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

SEEDING END WIDTH	SEEDING SQ. YDS.
310	610
330	1745
337	1224
307	1789

359+82
1033.6

1056.24 — 1047.62 — 1042.2
2:1 — 4:1 — 3:1

359+33
1025.8

1057.71 — 1049.32 — 1038.0
2:1 — 4:1 — 2:1

359+00
1037.2

1058.70 — 1050.47 — 1035.0
2:1 — 4:1 — 2:1

358+50
1040.8

1060.20 — 1052.21 — 1032.0
2:1 — 4:1 — 2:1 — 2:1

End Modified Standard, Type I, Paved Gutter, Type A
Sta. 358+50 Rt.

END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
		37	2470
68	3707		
		205	7081
158	4097		
		209	5178
184	4376		
		267	6938
105	3117		

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

Sta. 358+50 to 359+82

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	I-271-6(14)224

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178

MEDINA COUNTY
MED - 271 - 4.53
SUM - 271 - 0.00

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
	1940			167	6546
299		30	3294		
				73	6186
1678		49	3386		
				126	6364
304		87	3488		
				121	6660
1727		43	3705		
317					
1713					
299					

361+50
1029.7

1012.2 — 2:1 — 1051.20 — 1041.80 — 8:1 — 1038.4 — 4:1

361+00
1031.9

1013.7 — 2:1 — 1052.70 — 1043.53 — 8:1 — 1040.9 — 3:1

Begin Ditch Bottom Width = 6'
Sta. 361+15 'Lt.

360+50
1033.3

1020.0 — 2:1 — 1054.20 — 1045.27 — 8:1 — 1043.1 — 3:1

360+00
1033.7

1024.0 — 2:1 — 1055.70 — 1047.00 — 6:1 — 1044.0 — 4:1

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

Sta. 360+00 to 361+50

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	I-271-6(14)224

GG
178

MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

SEEDING END WIDTH	SQ. YDS.
315	1770
1669	
296	
1668	
304	
1801	
399	

363+50
1018.4
1002.7
1045.20
1034.86
1024.7
2:1
4:1

363+00
1021.2
1004.5
1046.70
1036.59
1027.2
2:1
4:1

362+50
1024.2
1007.0
1048.20
1038.33
1030.3
2:1
4:1

362+00
1026.9
1008.5
1049.70
2:1

Std. No. 4 C.B.
Top of Grate = 1038.14
IE 15" Cl. B-1 = 1035.00

84 L.F. 15" Cl. B-1 2.38%

1040.06

Std. Type E Headwall 1033.0
IE = 1033.05

10'
Width = 4'
Depth = 1.5'

Begin Special Sod Ditch
Sta. 362+02 Rt.
Width of Sod = 8'

End Grade Sta. 362+00 ℄ Median

ESTIMATED QUANTITIES

I-1	15" Class B-1 Pipe	84 L.F.
I-2	Masonry	0.3 C.Y.
I-8	Std. No. 4 C.B.	1 Ea.
L-10	Sodding	2 S.Y.
I-10	Dumped Rock Channel Protection	2 C.Y.

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
90	5133		
		136	9139
57	4737		
		118	8317
70	4245		
		203	7335
150	3677		

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

Sta. 362+00 to 363+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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178

MEDINA COUNTY
MED-271- 4.53
SUM-271- 0.00

SEEDING END WIDTH	SEEDING SQ. YDS.
301	1670
352	1814
322	1872

END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
		312	32
22	6414		
		181	11,809
175	6340		
		235	11,150
80	5702		
		157	10,031

365+00
1009.4

200 — 993.7 — 180 — 160 — 150 — 1040.70 — 1029.65 — 4:1 — 1016.6

End Ditch Bottom Width = 6'
Sta. 365+25 Lt.

Begin Jute Matting
Sta. 365+00 ℄ Median
Width = 7.5'

2:1

200 — 998.5 — 180 — 160 — 150 — 1042.20 — 1031.39 — 4:1 — 1018.0

364+50
1010.5

200 — 1000.0 — 180 — 160 — 150 — 1043.70 — 1033.12 — 4:1 — 1021.8

364+00
1015.3

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

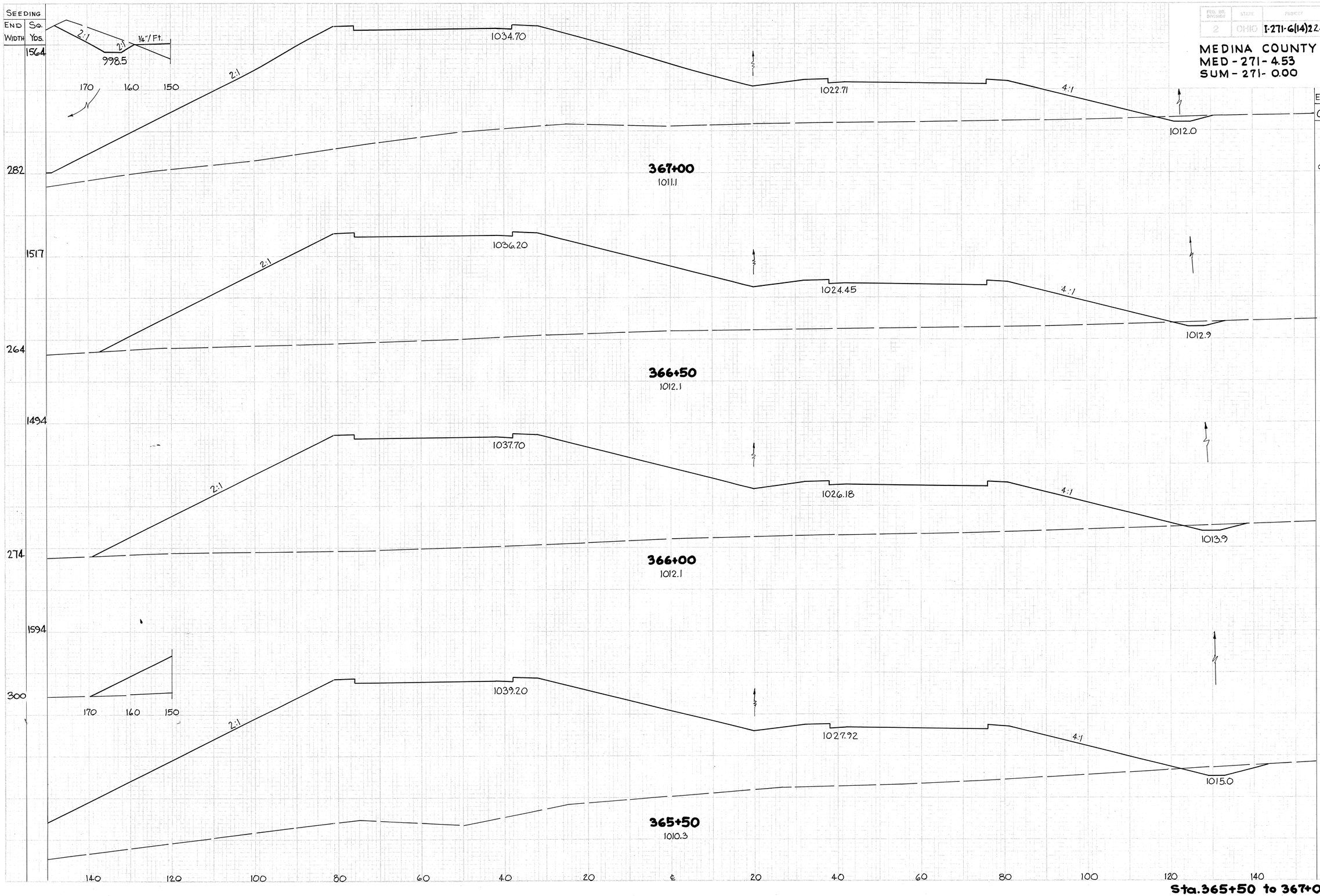
Sta. 364+00 to 365+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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MEDINA COUNTY
MED - 271 - 4.53
SUM - 271 - 0.00

SEEDING END WIDTH	SEEDING SQ. YDS.
282	1564
264	1517
274	1494
300	1594



END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
		207	6565
91	3887		
		95	7057
11	3732		
		24	7217
14	4062		
		41	8834
29	5479		

Sta. 365+50 to 367+00

FED. ROAD DIVISION	STATE	PROJECT
2	OHIO	I-271-6(14)224

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178

SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

Seeding End Width	Seeding Sq. Yds.
256	1470
1135	3862
248	3841
280	1466
281	1558

369+50
1011.7
1027.20
1014.08
1010.0
1002.0

369+00
1011.5
1028.70
1015.77
1008.5
Std. No. 4 C.B.
Top of Grate = 1013.85
FE 15" Class B-1 = 1010.74
90 L.F. 15" Class B-1
End Jute Matting
Sta. 369+00 ℄ Median
4.0 %
Headwall Type E
FE 1007.1
1007.2
End Special Sod Ditch
Sta 368+90 Rt.
Begin Modified Std. Type 1, Paved Gutter, Type A
Sta. 368+90 Rt.

ESTIMATED QUANTITIES

I-1	15" Class B-1 Pipe	90 L.F.
I-2	Masonry	0.3 C.Y.
I-8	Standard C.B. No. 4	1 Ea.
L-10	Sodding	2 S.Y.

368+50
1011.4
1030.20
1017.51
1005.5
1009.3

368+00
1010.7
1031.70
1019.24
1005.0
1011.5

367+50
1010.9
1033.20
1020.98
1003.10
1011.8

End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
		331	2727
232	1352		
		1142	2820
1001	1693		
		1042	3613
123	2209		
		229	4653
124	2816		
		237	5571
132	3201		

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

Sta. 367+50 to 369+50

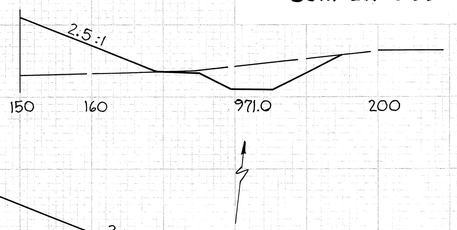
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

SEEDING END WIDTH	SEEDING SQ. YDS.
	1850
317	
	1685
290	
	1566
274	

End Ditch Bottom Width = 6'
Sta. 371+35 Rt.



Begin Ditch Bottom Width = 6'
Sta. 370+95 Rt.
End Modified Std. Type 1, Paved Gutter, Type A

END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
		235	12,361
31	5569		
		128	6648
107	1610		
		215	2966
125	1593		

Sta. 370+00 to 371+00

FED. ROAD DIVISION	STATE	PROJECT
2	OHIO	I-271-6(14)224

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MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

Seeding End Width	Seeding Sq. Yds.	End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
	2015				
340				359	17,026
	1649	274	8062		
320				420	13,215
	1716	229	7795		
324				393	13,386
		213	7265		

372+45
973.0

1018.35
1005.77
2:1
2:1
976.0
150 160 180
200
983.0
150
2:1

372+00
969.8

1019.70
1006.85
2:1
994.0
2:1
975.0
150 160 180

Begin Ditch Bottom Width=6'
Sta. 371+50 Lt.
160 150
2:1
2:1
1021.14
1003.3
1008.08
2:1

Begin Ditch Bottom Width=6'
Sta. 371+55 Rt.

371+52
972.7

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

Sta. 371+52 to 372+45

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	1-271-6(14)224	

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MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
	480			26	3735
351		78	7978		
	1413			82	11,168
336		41	8322		
	1877			110	15,718
339		77	8654		

373+87
968.0

968.0 — 210 — 190 — 170 — 2:1 — 1014.10 — 1002.79 — 2:1 — 981.5 — 150 — 170

373+50
972.0

972.0 — 200 — 170 — 2:1 — 1015.20 — 1003.50 — 2:1 — 978.0 — 150 — 170

373+00
972.0

976.5 — 190 — 170 — 150 — 2:1 — 1016.70 — 1004.54 — 2:1 — 977.0

End Ditch Bottom Width = 6'
Sta. 373+00

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

Sta. 373+00 to 373+87

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	I-271-6(14)224

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MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

Seeding End Width	Seeding Sq. Yds.
277	1726
314	1190
318	2103
277	1726

End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
		1602	6246
491	4496		
		473	7516
220	6778		
		296	16965
30	7536		

375+00
991.2

374+64
973.9

374+00
974.5

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

Sta. 374+00 to 375+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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MEDINA COUNTY
MED - 271 - 4.53
SUM - 271 - 0.00

Seeding End Width	Seeding Sq. Yds.	End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
	1662			851	4028
294		528	1837		
	1700			1324	3145
317		902	1559		
	1724			1982	3526
303		1239	2248		

376+00
999.2

972.0
160
140
2:1
1007.37
999.05
3:1

375+50
1003.8

969.0
180
160
140
2:1
1008.50
999.59
3:1

Begin Ditch Bottom Width = 6'
Sta. 375+65 Lt.

170
150
2:1
2:1
1009.70
1000.20
3:1

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

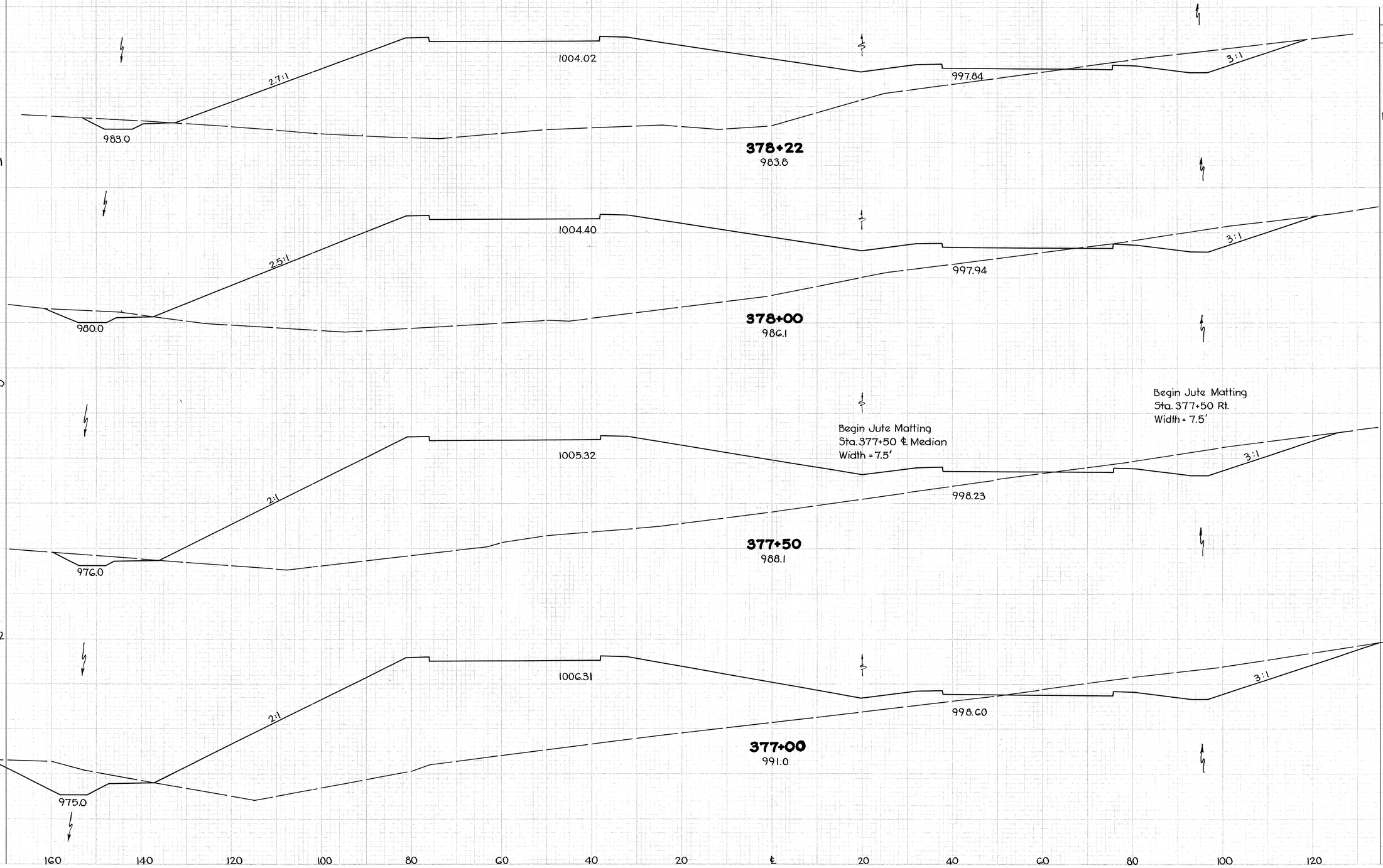
Sta. 375+50 to 376+50

FED. RW. DIVISION	STATE	PROJECT	
2	OHIO	1-271-6(14)224	

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MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

Seeding End Width	Seeding Sq. Yds.	End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
	2249			651	5813
285					
258		146	2516		
	641			115	2163
267		136	2795		
	1510			299	5124
277		187	2739		
	1612			534	4863
304		390	2514		



STA. 377+00 to 378+22

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	I-271-6(14)224

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MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

Seeding End Width	Seeding Sq. Yds.
	1397
251	
	1385
247	
	1392
254	
	1330
224	
	1349
261	

End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
		5871	0
2916	0		
		4547	0
1994	0		
		2440	0
641	0		
		666	581
78	627		
		354	1978
304	1509		

3:1

1000.34

381+00
1011.5

℄ Median = 994.97

997.95

3:1

Begin Jute Matting ℄ Median
Sta. 380+60 Width = 7.5'

End Jute Matting
Sta. 380+50 Rt.

3:1

1000.85

997.74

380+50
1007.3

℄ Median - 995.12

3:1

6:1

1001.42

997.62

380+00
1001.7

℄ Median - 995.34

3:1

4:1

1002.06

995.0

8:1

995.07

3:1

379+50
995.2

℄ Median - 995.63 997.57

End Jute Matting ℄ Median
Sta. 379+00

Std. No. 4 C.B. 20' Rt.
Top of Grate = 995.69
℄ 15" Cl. B-1 pipe = 987.08 (in)
℄ 24" Cl. B-1 pipe = 986.33 (out)
℄ 15" Cl. E-1 pipe = 987.08 (in)

Std. No. 5 C.B. 102' Rt.
Top of Grate = 994.57
℄ 15" Cl. B-1 pipe = 989.62

End Ditch Bottom Width = 6'
Sta. 379+00 Lt.

12'

Width = 4'
Depth = 1.5'
985.2

3.5:1

1002.77

997.61

3:1

3:1

80'-15" Cl. B-1 pipe @ 3.2%

156'-24" Cl. B-1 pipe @ 0.8%

Standard Type "E" Headwall
℄ - 985.29

379+00
990.7

Estimated Quantities

I-1 -	24" Class B-1 pipe	156 L.F.	Sec. M-6.6(b) or M-6.8(b)
I-1 -	15" Class B-1 pipe	80 L.F.	
I-2 -	Masonry	0.4 C.Y.	
I-8 -	Std. No. 4 C.B.	1 Ea.	
I-8 -	Std. No. 5 C.B.	1 Ea.	
I-10 -	Dumped Rock	3 C.Y.	
L-10 -	Sodding	3 S.Y.	

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

Sta. 379+00 to 381+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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MEDINA COUNTY
MED-271 - 4.53
SUM-271 - 0.00

Seeding End Width	Seeding Sq. Yds.
	1417
245	
	1397
257	
	1413
251	
	1383
247	
	1385
251	

383+50
1011.2
℄ Median = 994.80
3:1 — 996.7 — 998.88 — 999.20 — 3:1

Begin Jute Matting
Sta. 383+10 Median
Width = 7.5'

Std. No. 4 C.B. Sta. 383+10 ℄ I-271
Top of Grate = 994.50
℄ 15" Cl. E-1 = 990.46

383+00
1013.4
℄ Median = 994.73
3:1 — 996.9 — 999.03 — 998.95 — 3:1

Note: Sta. 382+60 is high point in median
℄ = 994.83

382+50
1013.7
℄ Median = 994.82
3:1 — 997.1 — 999.26 — 998.70 — 3:1

End Jute Matting
Sta. 382+10 ℄ Median

Std. No. 4 C.B. 4' Rt. Sta. 382+10
Top of Grate = 994.50
℄ 15" Cl. E-1 (in) = 989.66
℄ 15" Cl. E-1 (out) = 989.56

382+00
1013.7
℄ Median = 994.73
3:1 — 997.4 — 999.55 — 998.45 — 3:1

381+50
1013.4
℄ Median = 994.85
3:1 — 997.8 — 999.91 — 998.20 — 3:1

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

End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
		5814	0
3147	0		
		6341	0
3700	0		
		6793	0
3637	0		
		6754	0
3657	0		
		6857	0
3424	0		

Sta. 381+50 to 383+50

FED. NO. DIVISION	STATE	PROJECT
2	OHIO	1-271-6(14)224

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MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
				2169	1420
	1489				
232		2083	0		
				4384	0
	1406				
274		2652	0		
				5080	0
	1517				
272		2834	0		
				5524	0
	1493				
265		3132	0		

385+50
1008.6
℄ Median = 995.40
6:1 4:1 993.5 998.97 1000.20 6:1 995.0 3:1

Begin Special Sod Ditch
Sta 384+90 Lt.
Width of Sod = 8'

385+00
1008.6
℄ Median = 995.20
6:1 8:1 996.1 998.84 999.95 3:1

End Jute Matting, Median
Sta. 384+60

384+50
1009.4
℄ Median = 995.05
6:1 996.3 998.78 999.70 3:1

384+00
1010.5
℄ Median = 994.93
3:1 996.5 998.80 999.45 3:1

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

Sta. 384+00 to 385+50

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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MEDINA COUNTY
MED - 271 - 4.53
SUM - 271 - 0.00

ESTIMATED QUANTITIES

I-1 15" Class B-1 Pipe	=	88 L.F.
I-1 15" Class F-4 Pipe	=	46 L.F.
I-2 Masonry	=	0.3 C.Y.
I-8 Std. No. 4 C.B.	=	1 Ea.
L-10 Sodding	=	2 S.Y.
I-5 Pipe Specials (15"-30° Bends) Cl. F-4	=	2 Ea.

I-10 Dumped Rock Channel Protection = 2 Cu. Yd.

Seeding End Width	Seeding Sq. Yds.		End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
		1005				
	1654					
		995				
					72	9214
		985				
296		975	30	5021		
		965				
	1373				85	7669
		995				
		985				
306		975	82	5080		
		1005			23	1725
		995				
		985				
304		975	56	5268		
		965				
	1688	1005			292	6298
		995				
		985	260	1534		
303		975				

Begin Special Sod Ditch
Sta. 386+85 Lt.
Width of Sod = 8'

10'
Width = 4'
Depth = 1.5

2:1

46'-15" Cl. F-4 Pipe

88'-15" Cl. B-1 Pipe @ 1.0%

Std. No. 4 CB, Sta. 387+25, 6' Lt.
Top of Gate = 995.90
FE 15" Cl. B-1 = 991.00

FL Median = 996.03

Begin Jute Matting
Sta. 387+25 ℄ Median
Width = 7.5'

999.49

1000.95

2:1

Begin Standard No. 1 Paved Gutter
Modified Type B
Sta. 387+15 Rt.
Depth = 0.5'
Bottom = 4'
Width = 6'

973.0

387+00
975.3

975

170

150

965

2:1

999.35

1000.74

FL Median = 995.86

975.5

386+59
974.7

2:1

999.32

1000.70

FL Median = 995.82

976.0

386+50
971.5

End Special Sod Ditch
Sta. 386+00 Lt.

980

970

170

2:1

971.3

2:1

150

2:1

999.14

1000.45

FL Median = 995.60

4:1

986.3

386+00
988.8

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

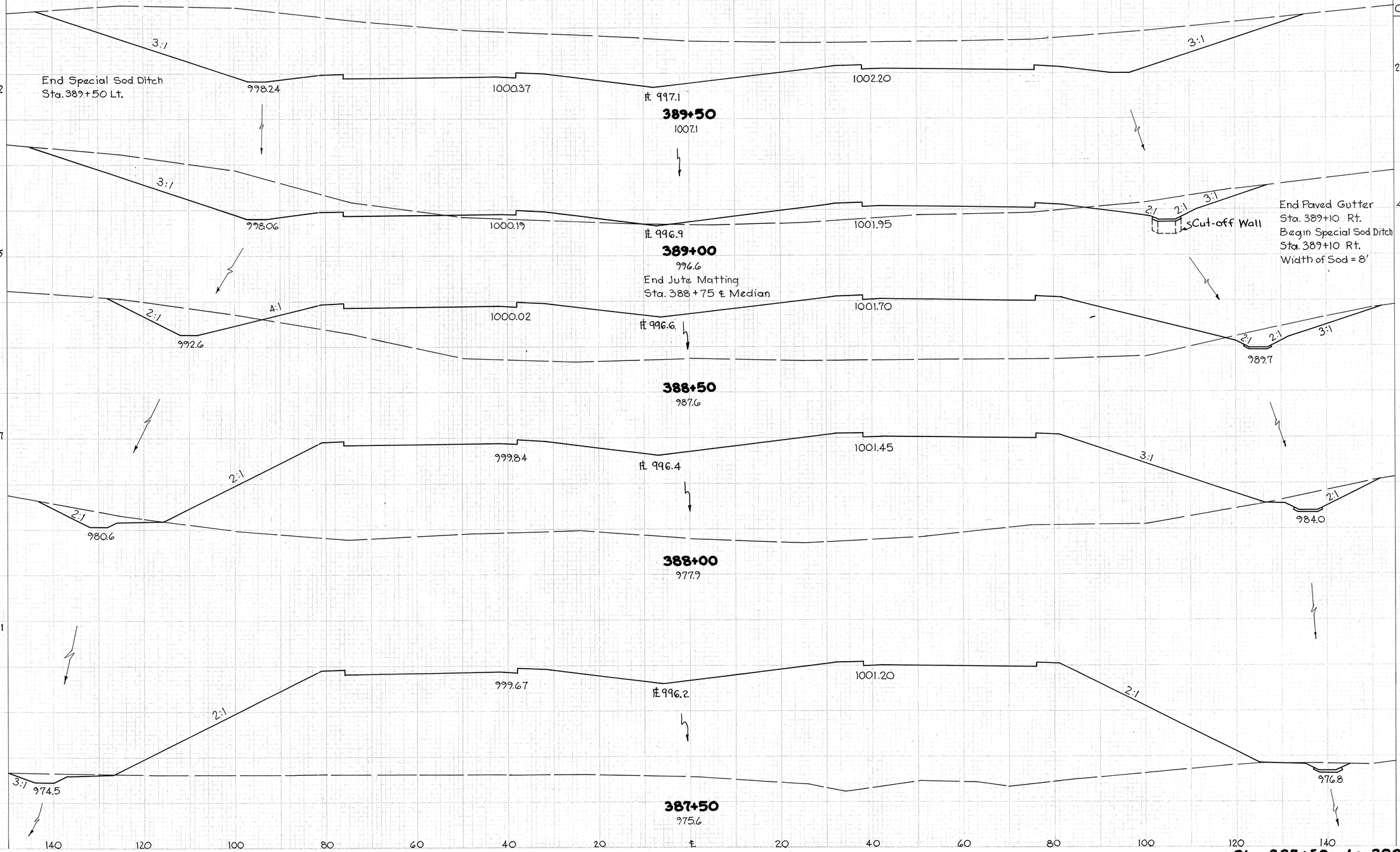
Sta. 386+00 to 387+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	1-271-6(14)224	

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MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

SEEDING END WIDTH	SEEDING SQ. YDS.
276	1537
247	1452
287	1485
240	1467
300	1611



END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
		5607	0
2337	0		
		2587	197
457	214		
		567	2176
155	2136		
		261	5822
126	4151		
		160	8410
47	4931		

Sta. 387+50 to 389+50

FED. REG. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

Seeding End Width	Seeding Sq. Yds.
	1386
253	
	1447
268	
	1479
264	
	1506
277	

End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
		6423	0
3675	0		
		7262	0
4167	0		
		7611	0
4052	0		
		7194	0
3718	0		

3:1 998.96 1001.07 ℄= 997.9 1003.20 2:1

391+50
1016.6

3:1 998.76 1000.89 ℄= 997.7 1002.95 2:1

391+00
1017.8

3:1 998.59 1000.72 ℄= 997.5 1002.70 2:1

390+50
1017.4

3:1 998.31 1000.54 ℄= 997.3 1002.45 25:1

End Special Sod Ditch
Sta. 390+00 Rt.

390+00
1014.4

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

Sta. 390+00 to 391+50

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	I-271-6(14)224

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MEDINA COUNTY
MED -271- 4.53
SUM -271- 0.00

SEEDING		END AREA		CU. YDS.	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
1175				4512	0
230		2784	0		
				4758	0
1163					
				2925	0
234					
				6303	0
1469					
				3262	0
246					

3:1 — 1001.59 — ℄ = 998.6 — 1003.95 — 2:1

393+00
1013.6

3:1 — 1001.43 — ℄ = 998.3 — 1003.72 — 2:1

392+55
1014.3

3:1 — 1001.24 — ℄ = 998.1 — 1003.45 — 2:1

392+00
1014.9

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

Sta. 392+00 to 393+00

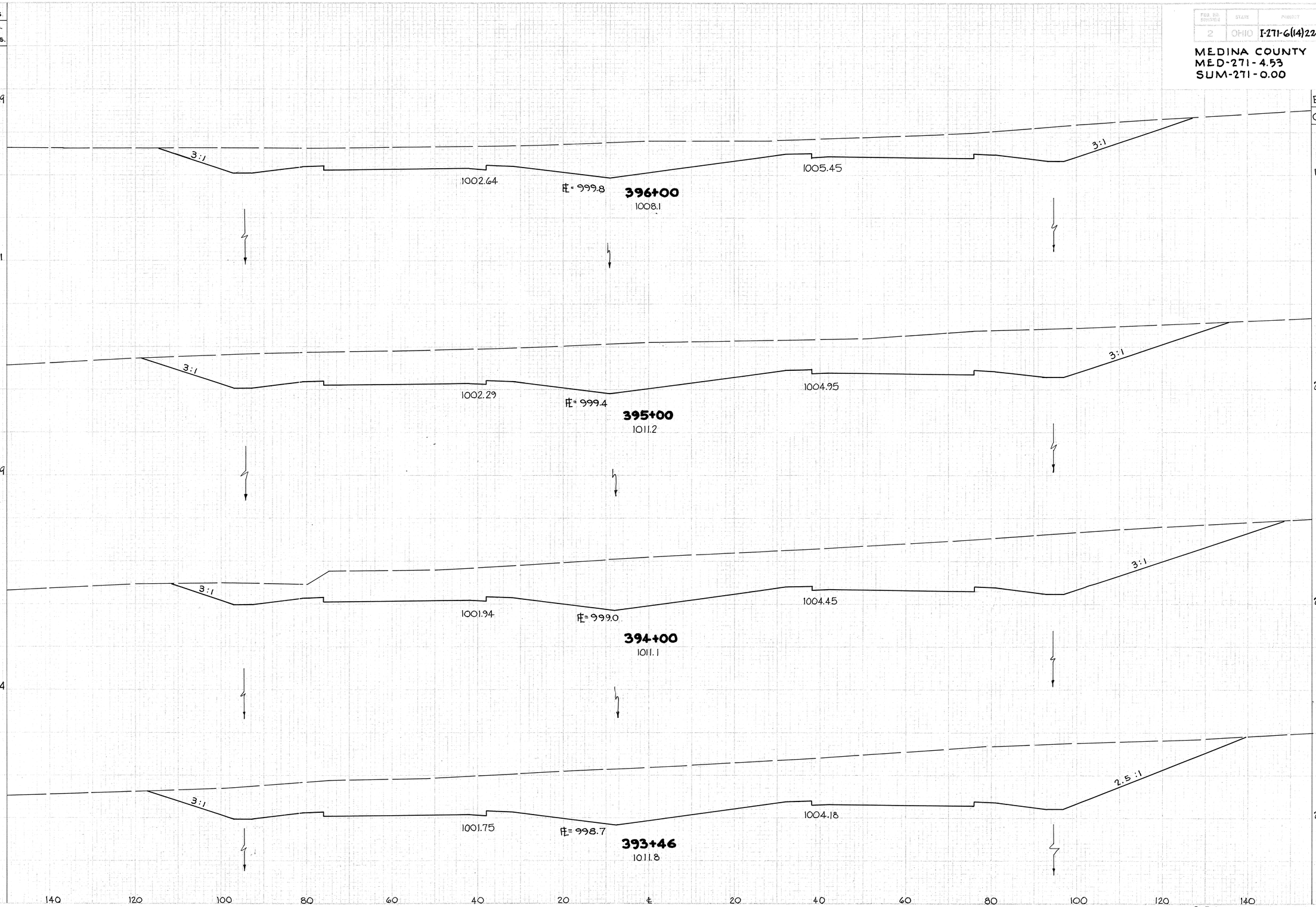
FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

SEEDING	
END WIDTH	SQ. YDS.
2629	
237	
2581	
228	
2579	
229	
1374	
229	

END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		5613	0
1313	0		
		6239	0
2056	0		
		7902	0
2211	0		
		4724	0
2513	0		



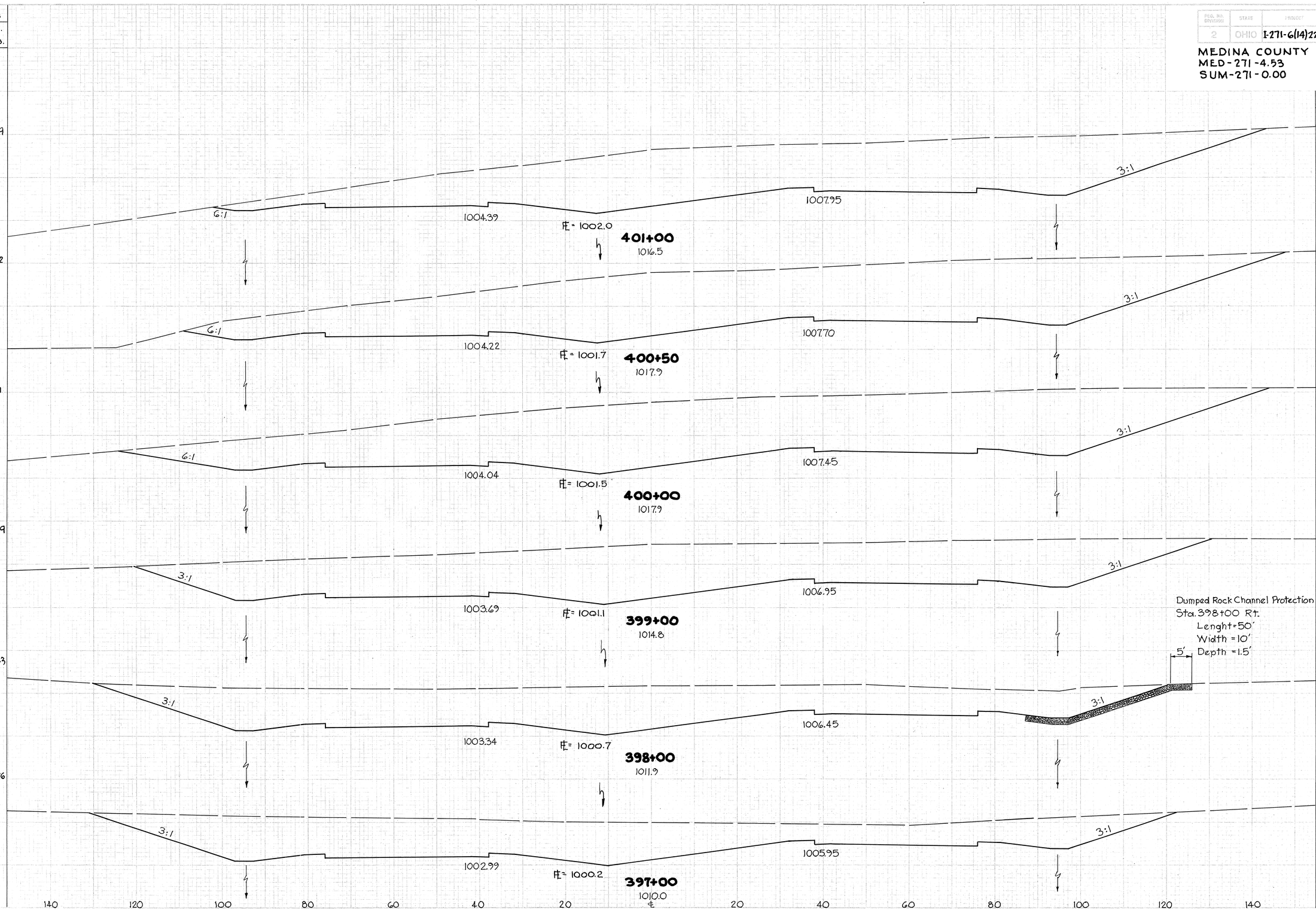
Sta. 393+46 to 396+00

PROJ. NO. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
	1419			3526	5
238		2207	0		
	1352			4535	0
249		2692	0		
	1411			5175	0
		2897	0		
259					
	2769			9567	0
		2269	0		
239				7604	0
	2643				
		1837	0		
236				6583	0
	2626				
		1718	0		
236					



Sta. 397+00 to 401+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	1-271-6(14)224	

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MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

SEEDING END WIDTH	SEEDING SQ. YDS.
803	286
2146	236
1348	250
1306	220
1371	273

END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
		31	1901
52	2219		
		79	6602
6	2598		
		57	3151
56	804		
		756	1016
761	292		
		2188	276
1602	5		

24:1 4:1 990
200 180 160 150 980
4:1 988.6
1005.35 ℄= 1003.1 1009.32 4:1 1000.7

403+74
993.4

End Jute Matting
Sta. 403+50 ℄ Median

4:1 1005.09 ℄= 1002.8 1008.95 4:1 996.0

403+00
993.2

4:1 1004.92 ℄= 1002.6 1008.70 4:1 1000.5

402+50
1004.7

Begin Jute Matting
Sta. 402+00 ℄ Median
Width = 7.5'

Std. No. 4 CB 14.8' Lt.
Top of Grate = 1002.04
FL 15" Cl. B-1 = 997.00

10'
Width = 4'
Depth = 1.5'
4:1 1004.74 ℄= 1002.4 1008.45 3:1

402+00
1007.8

120'-15" Cl. B-1 Pipe @ 5.0%

Std. Headwall Type E
FL = 991.00

ESTIMATED QUANTITIES

I-1 15" Cl. B-1 Pipe	= 120 LF.
I-2 Masonry	= 0.3 C.Y.
I-8 Std. No. 4 C.B.	= 1 Ea.
I-10 Dumped Rock Channel Protection	= 1 C.Y.
L-10 Sodding	= 2 S.Y.

4:1 1004.57 ℄= 1002.2 1008.20 3:1

401+50
1012.1

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

Sta. 401+50 to 403+74

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

| SEEDING END WIDTH | SEEDING SQ. YDS. | | |

FED. AID DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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MEDINA AND SUMMIT COUNTIES
MED-271- 4.53
SUM-271- 0.00

SEEDING END WIDTH	SEEDING SQ. YDS.
300	1600
285	1625
287	1590
297	1623
287	1624
275	1562

409+50
1001.5
3.5:1
1007.37
E = 1005.6
1012.20
2.5:1
992.4

Begin Special Sod Ditch
Sta. 409+90 Rt.
Width of Sod = 8'

End Special Sod Ditch
Sta. 409+60 Rt.

409+00
1002.4
4:1
1004.0
1007.19
E = 1005.4
1011.95
3:1
997.8

408+50
1001.9
4:1
1003.0
1007.02
E = 1005.1
1011.70
3.5:1
1001.0

408+00
1001.0
4:1
1002.0
1006.84
E = 1004.9
1011.45
4:1
1003.0

407+50
1000.5
4:1
999.0
1006.67
E = 1004.7
1011.20
5:1
1006.2

Begin Special Sod Ditch
Sta. 407+50 Rt.
Width of Sod = 8'

407+00
999.8
4:1
996.5
1006.47
E = 1004.5
1010.95
6:1
1008.0

END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
		158	3291
68	1360		
		104	2276
45	1099		
		83	1962
44	1021		
		103	1922
67	1055		
		124	2009
68	1114		
		120	2142
62	1199		

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

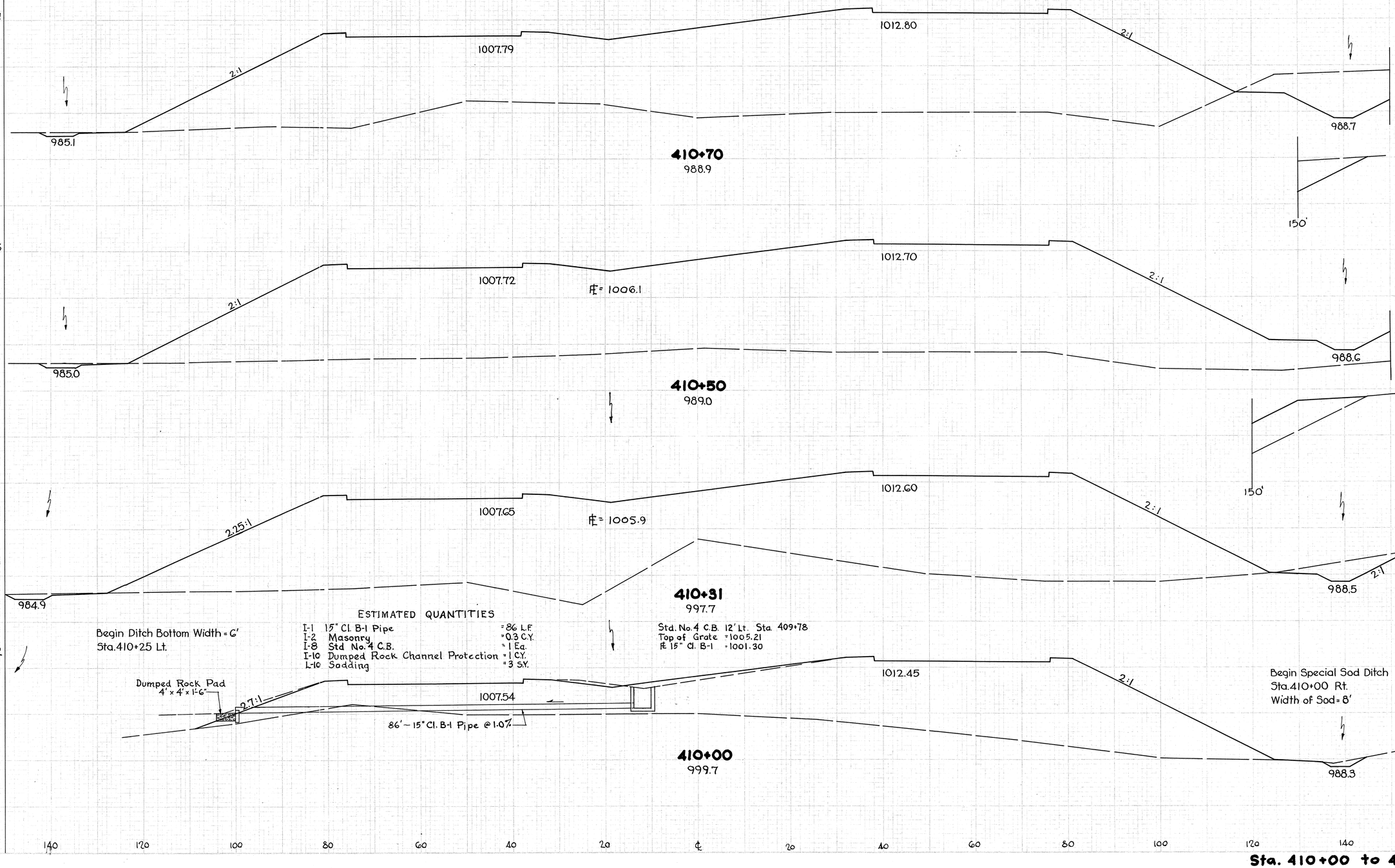
Sta. 407+00 to 409+50

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)Z.24	

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SUMMIT COUNTY
MED-271-4.53
SUM-271- 0.00

Seeding End Width	Seeding Sq. Yds.	End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
	467			221	1953
300		577	3958		
	665			142	3207
298		7	4699		
	625			41	3072
294		110	4033		
	982			122	3575
276		103	2195		



Sta. 410+00 to 410+70

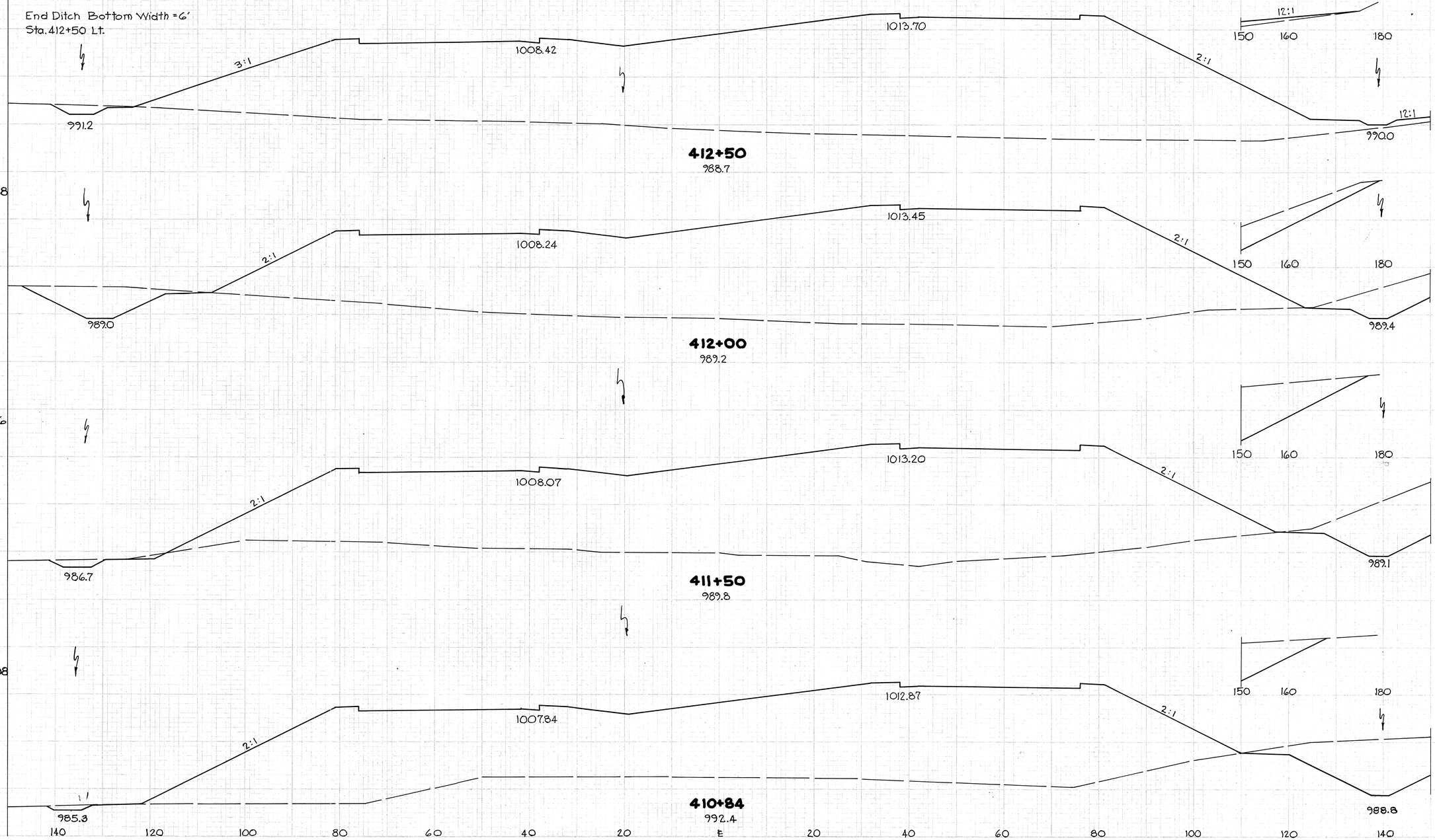
FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

SEEDING	
END WIDTH	SQ. YDS.
	1606
	256
	1588
	315
	1716
	303
	2208
	299

End Ditch Bottom Width = 6'
Sta. 412+50 Lt.



END AREA		CU. YDS	
CUT	FILL	CUT	FILL
		101	7638
39	4289		
		422	7638
417	3961		
		807	7201
454	3816		
		1136	9032
475	3574		

Sta. 410+84 to 412+50

PROJ. RD. DIVISION	STATE	PROJECT
..2	OHIO	I-271-6(14)224

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SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
204	1107			2566	0
213	1159	1202	0		
340	1537	331	229	1419	212
373	1979	30	1797	333	1825
321	1930	40	3227	65	4657
		70	3959	103	6655

End Special Sod Ditch
Sta. 415+25

3:1

1014.95

1010.07

4:1

4:1

1002.6

415+00
1017.7

Estimated Quantities

I-1	18" Cl. B-1 pipe	92 L.F.	Begin Jute Matting
I-2	Masonry	0.3 C.Y.	Sta. 414+50 ℄ Median
I-8	Std. No. 4 C.B.	1 Each	Width = 7.5'
I-10	Dumped Rock Channel Protection	2 C.Y.	
L-10	Sodding	3 S.Y.	

Std. No. 4 C.B. 20 Lt.
Top of Grate = 1007.66
℄ 18" Cl. E-1 (in) = 1002.60
℄ 18" Cl. B-1 (out) = 1002.50

Std. Type "E" Headwall
℄ = 1000.30

4:1

4:1

1009.62

1014.70

4:1

997.0

92'-18" Cl. B-1 pipe @ 2.4%

414+50
1013.3

1000.2

Match "A"

Slope to Drain ← 0.5%

150 170 190 210 230

Dumped Rock Channel Protection
Sta. 414+50 Lt.
Length = 10'
Width = 4'
Depth = 1.5'

1014.45

4:1

1009.22

2:1

998.0

414+00
1006.1

991.5

Match "A"

Slope to Drain ← 0.5%

Match "B"

150 180 200 225 250 270

160 140

1014.20

4:1

1008.89

2:1

997.0

413+50
998.2

991.0

Match "B"

Slope to Drain 0.5% →

Match "C"

150 175 190

170 150

3:1

Begin Special Sod Ditch
Sta. 413+00 Lt.
Width of Sod = 11.5'

1013.95

4:1

1008.63

2:1

995.5

413+00
992.7

990.5

Match "C"

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

Sta. 413+00 to 415+00

FED. AID DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

SEEDING END WIDTH	SEEDING SQ. YDS.
246	1359
245	1364
219	1289
204	1175
195	1108

2.5:1 — 1013.27 — ℄ = 1010.5 — 1016.20 — 2.5:1

417+50
1035.1

3:1 — 1012.51 — ℄ = 1010.0 — 1015.95 — 3:1

417+00
1030.6

3:1 — 1011.81 — ℄ = 1009.5 — 1015.70 — 3:1

416+50
1025.6
End Jute Matting
Sta. 416+00 ℄ Median

3:1 — 1011.17 — ℄ = 1009.1 — 1015.45 — 3:1

416+00
1022.7

4:1 — 1005.0 — 4:1 — 1010.59 — ℄ = 1008.7 — 1015.20 — 3:1

415+50
1020.4

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

END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
		8601	0
4493	0		
		7463	0
3568			
		5786	0
2681			
		4276	0
1936			
		3246	0
1569			

Sta. 415+50 to 417+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

SEEDING END WIDTH	SEEDING SQ. YDS.
274	1537
265	1501
255	1447
243	1384

Begin Jute Matting
Sta. 419+50, ℄ Median
Width = 7.5'

Std. No. 4 C.B. 2.3' Lt.
Top of Grate = 1012.70
℄ 18"Cl. E-1 = 1009.30

2:1 — 160 — 2:1 — 150

1016.83 — ℄ Median = 1013.1 — 1017.40

419+50
1042.4

2:1 — 160 — 2:1 — 150

1015.91 — ℄ 1014.0 — ℄ 1014.8 — 1017.04

419+00
1037.8

Std. No. 2-2-B C.B. 19' Lt.
Top of Grate = 1013.00
℄ 18"Cl. E-1 = 1007.97 (In)
℄ 18"Cl. E-1 = 1007.87 (Out)

1014.99 — ℄ 1014.0 — 1016.72

418+50
1036.0

1014.10 — ℄ 1011.5 — ℄ 1011.8 — 1016.45

418+00
1037.8

END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
		13,247	0
690.7	0		
		11,961	0
601.0	0		
		10,497	0
532.6	0		
		937.1	0
479.6	0		

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

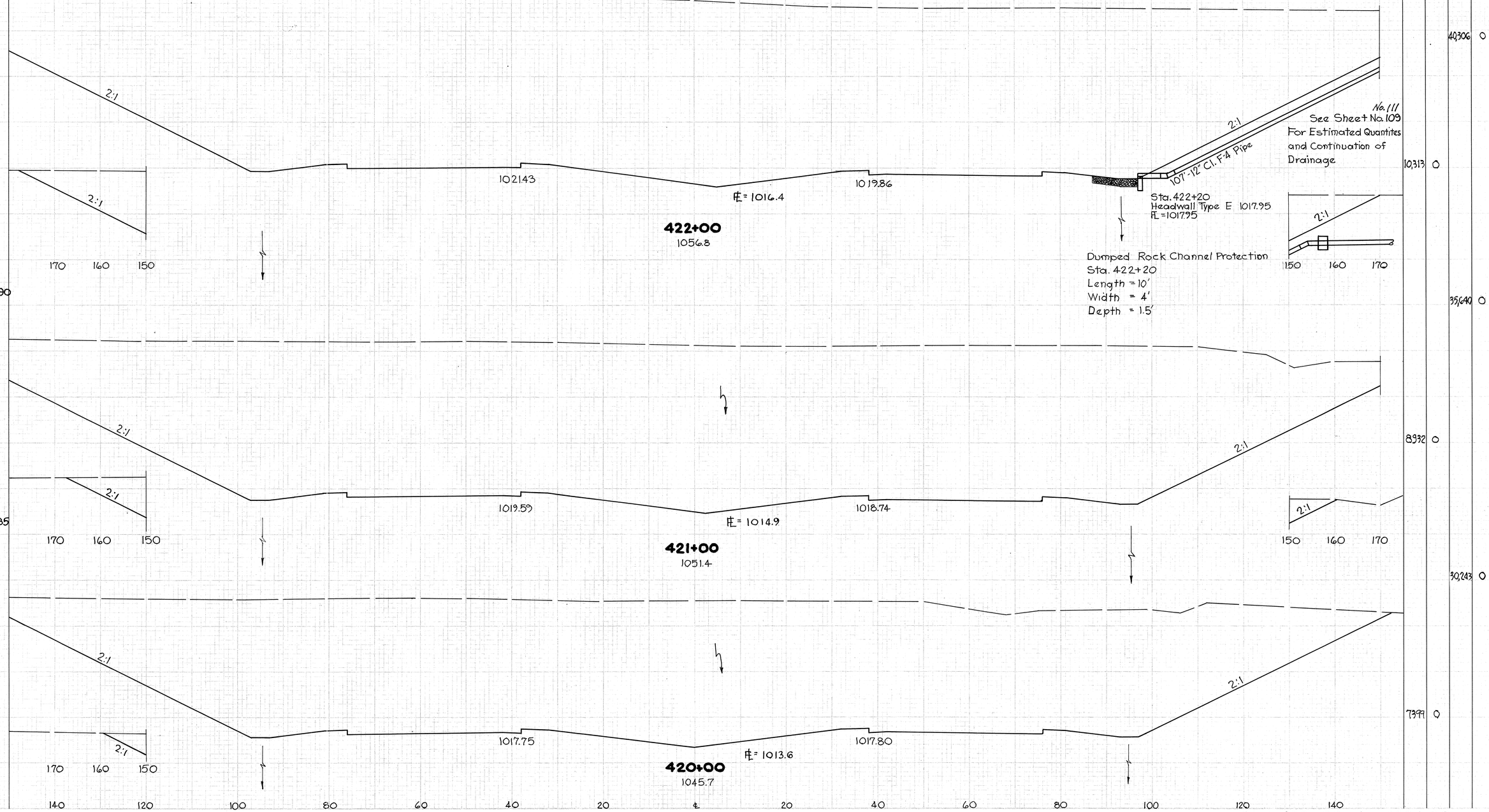
Sta. 418+00 to 419+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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SUMMIT COUNTY
MED-271- 4.53
SUM-271- 0.00

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
	3562			40,306	0
315		10,313	0		
	3390			35,640	0
294					
	3185			8932	0
278				30,243	0
				7399	0



Sta. 420+00 to 422+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

Seeding End Width	Seeding Sq. Yds.
325	3459
325	3625
327	3626
325	

End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
		42,840	0
11,492	0		
		43,117	0
11,791	0		
		43,046	0
11,454	0		

425+00
1065.3
℄ = 1021.4
1026.95
1024.27
160 145
160 180

424+00
1064.4
℄ = 1019.7
1025.11
1022.63
160 145
160 180

423+00
1062.3
℄ = 1018.0
1023.27
1021.16
170 150
150 170

2:1

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

Sta. 423+00 to 425+00

FED. ROAD DIV. NO.	STATE	PROJECT
2	OHIO	I-271-6(14)224

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178

SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

SEEDING END WIDTH	SEEDING SQ. YDS.
293	3168
	3360
312	
	3522
322	

END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
		26,830	0
8,247	0		
		34,772	0
		10,529	0
		41,055	0
		11,641	0

428+00
1062.7
℄ 1027.1
1032.47
1030.24

427+00
1068.2
℄ 1025.1
1030.63
1028.10

426+00
1068.7
℄ 1023.2
1028.79
1026.10

2:1 slopes · 160 · 150 · 180

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

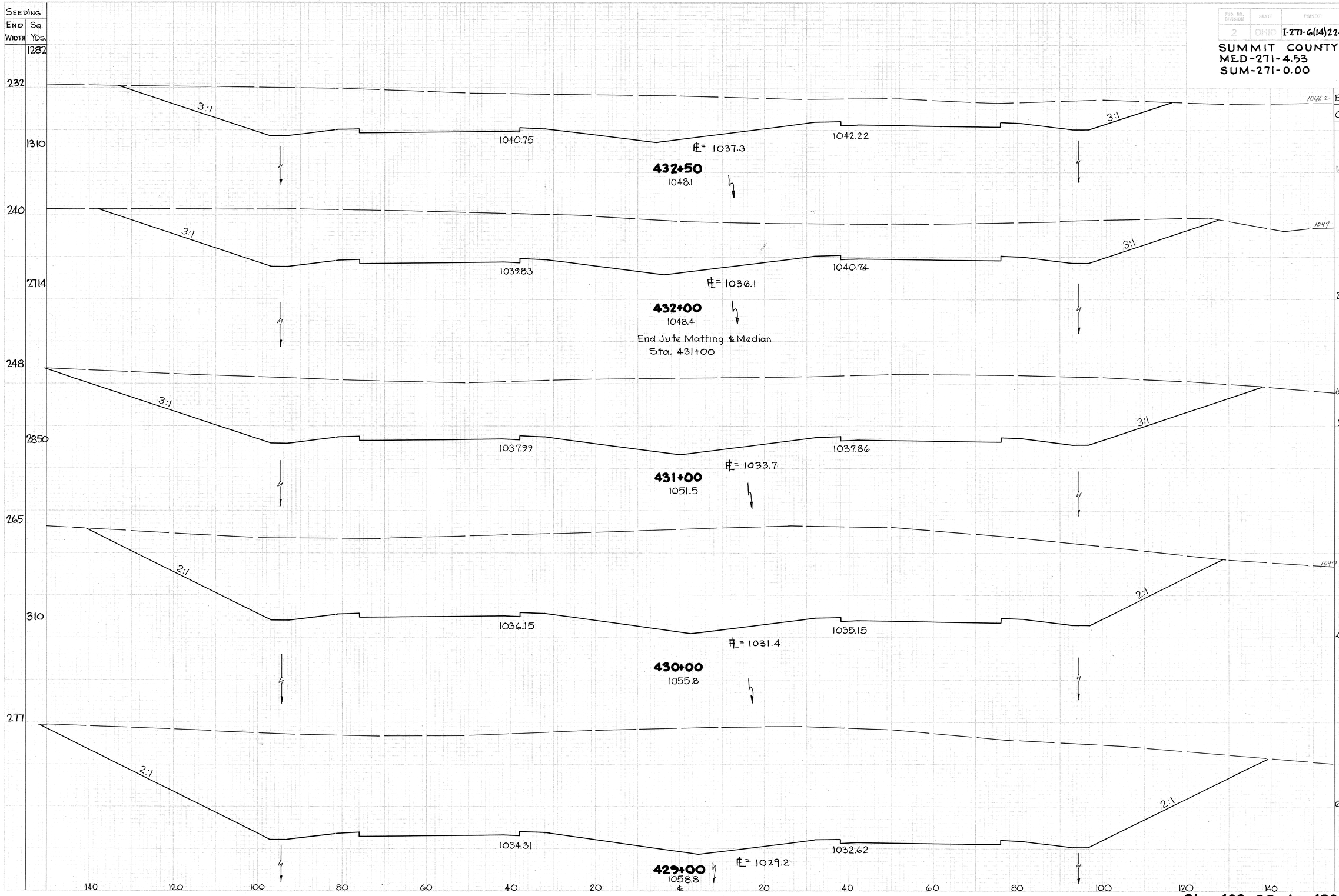
Sta. 426+00 to 428+00

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	I-271-6(14)224

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178

SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

SEEDING END WIDTH	SEEDING SQ. YDS.
232	1282
240	1310
248	2714
265	2850
277	310



END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
		2881	0
1869	0		
		4029	0
2482	0		
		11,444	0
3698			
		15,689	0
4774	0		
		20,318	0
6241	0		

Sta. 429+00 to 432+50

FED. NO. DIVISION	STATE	PROJECT
2	OHIO	I-271-6(14)224

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178

SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

Estimated Quantities
I-1-15"Cl. B-1 Pipe = 90 L.F.
I-2-Masonry = 0.3 C.Y.
I-8-Std. No. 4 C.B. = 1 Ea
L-10-Sodding = 2 S.Y.
I-10 Dumped Rock Channel Protection = 2 Cu. Yds

Dumped Rock Channel Protection
Sta. 436+00 Lt.
Length = 10'
Width = 4'
Depth = 1.5'

Std. Type "E" Headwall
FL 1038.10

Begin Jute Matting
Sta. 436+00 ℄ Median
Width = 7.5'

Std. No. 4 C.B., 2.0' Lt.
Top of Grate = 1045.11
FL 15" Cl. B-1 = 1040.50

98'-15" Cl. B-1 Pipe @ 2.4%

End Special Sod Ditch
Sta. 433+00 Lt.

Seeding End Width	Seeding Sq. Yds.		End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
262	1553				87	4112
			47	1595		
254	2007				335	2647
			211	447		
250	839				258	459
			254	379		
243	1368				610	655
			405	327		
232	1320				817	396
			477	100		
230	1285				1043	97
			650	5		
230	1278				1752	4
			1241	0		

Station	Elevation
436+00	1040.2
435+30	1044.2
435+00	1041.8
434+50	1045.7
434+00	1046.1
433+50	1045.3
433+00	1046.5

Sta. 433+00 to 436+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

SEEDING END WIDTH	SEEDING SQ. YDS.
1782	
372	
2284	
389	
2112	
356	
1813	
296	

438+05
1029.1

250 200 150 — 2.5:1 — 1050.96 — 1058.71 — 2.5:1
1033.3
150 1032.7 180

250 200 150 — 3:1 — 1049.97 — 1057.10 — 3:1
1033.5
150 1033.0 180

437+51
1030.3

200 150 — 3.5:1 — 1049.03 — 1055.59 — 3.5:1
1033.7
150 1033.5 180

437+00
1036.1

436+50
1036.8

150 — 4:1 — 1048.11 — 1054.10 — 4:1 — 180
1035.5
1037.0

END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
		88	7802
25	5158		
		42	10,248
17			
		49	8313
35	3712		
		76	6073
47	2846		

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

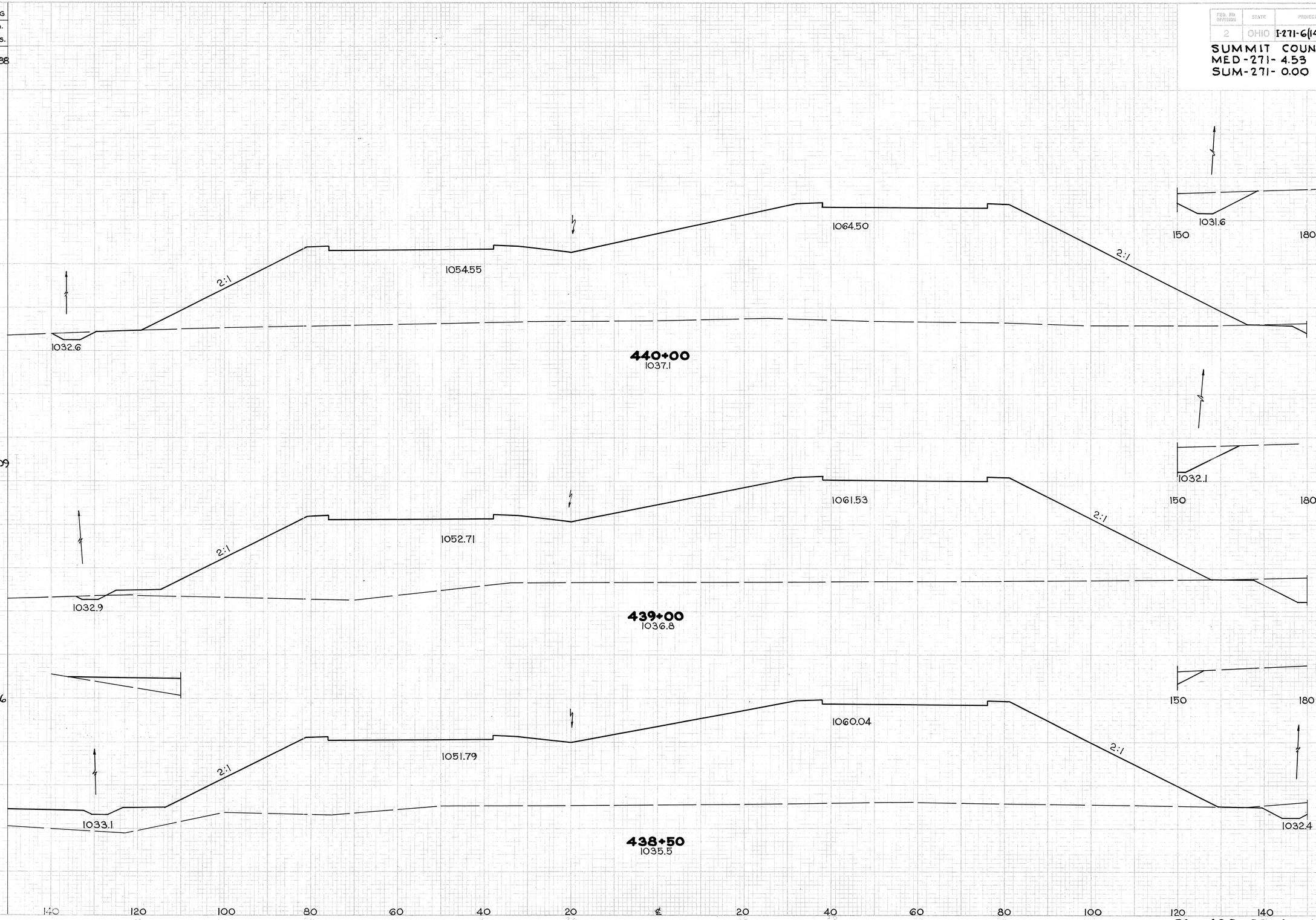
Sta. 436+50 to 438+05

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

99
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SUMMIT COUNTY
MED-271- 4.53
SUM-271- 0.00

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
	3588				
				695	18166
		160	4549		
				641	15999
	3509				
		186	4068		
	1816			248	7660
	340	81	4204		



Sta. 438+50 to 440+00

FED. ROAD DIST. NO.	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

SEEDING		END AREA		CU. YDS.	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
	3706				
				254	27,316
	334	71	7890		
	3624			179	27,388
	318	25	7499		
	3650	395	25,942		
	339	187	6510		
	3702	748	21,798		
	327	216	5261		

444+00
1038.1

1036.0
160 150
2:1
1064.75
1076.38
2:1
2:1
150 160 1032.5 180

443+00
1034.8

1031.7
160 150
Begin Ditch Bottom Width = 6"
Sta. 443+00 Lt.
2:1
1061.67
1073.41
2:1
2:1
150 160 1030.2

442+00
1033.0

1032.0
2:1
1058.94
1070.44
2:1
2:1
150 160 1030.6 180

441+00
1036.8
℄

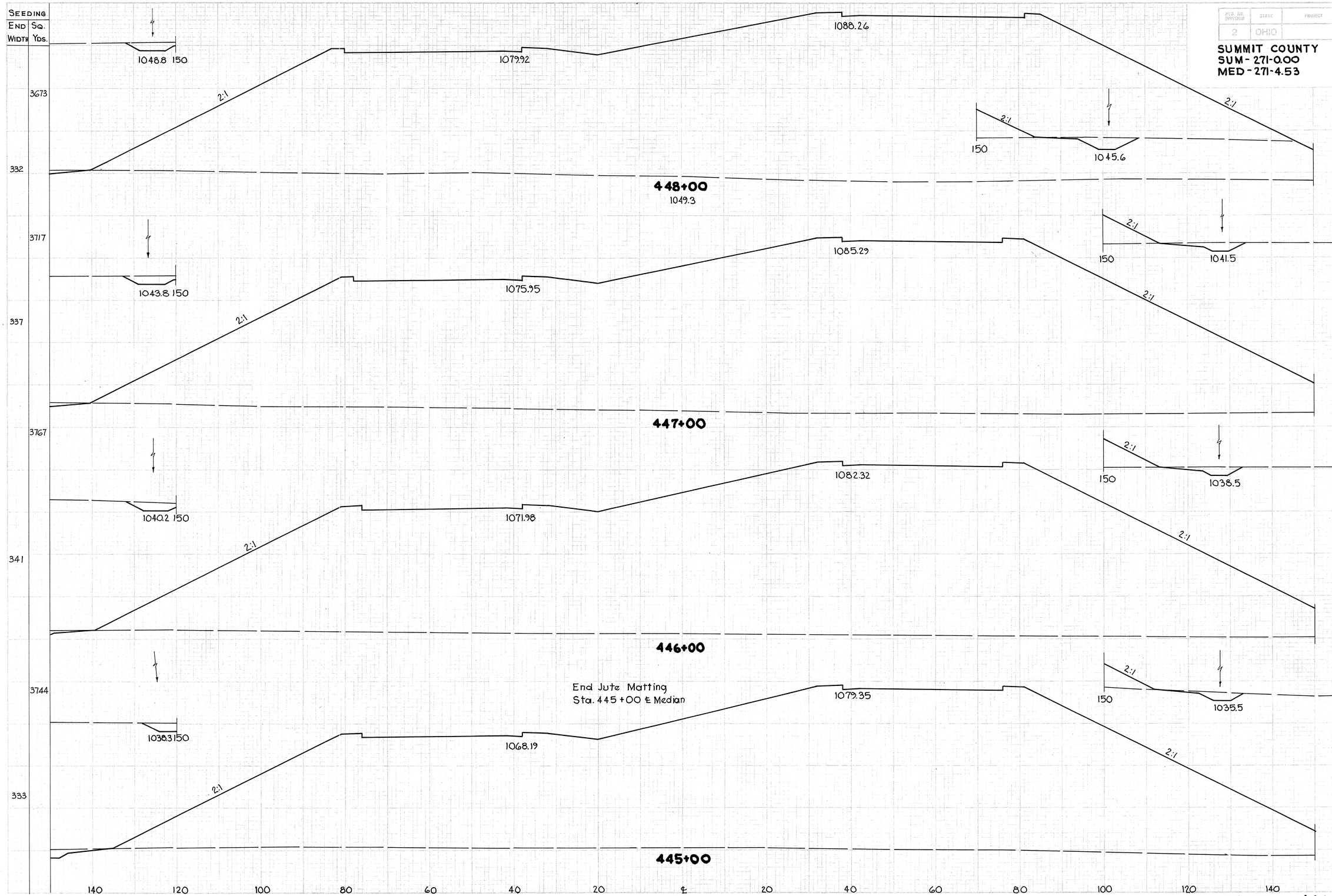
1032.3
140 120 100 80 60 40 20 20 40 60 80 100 120 140
2:1
1056.57
1067.47
2:1
2:1
150 160 1031.1 180

Sta. 441+00 to 444+00

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

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SUMMIT COUNTY
SUM-271-0.00
MED-271-4.53



END AREA		CU. YDS.	
CUT	FILL	CUT	FILL
		162	29020
46	8068		
		161	30434
41	8365		
		155	30576
42	8145		
		200	28901
66	7416		

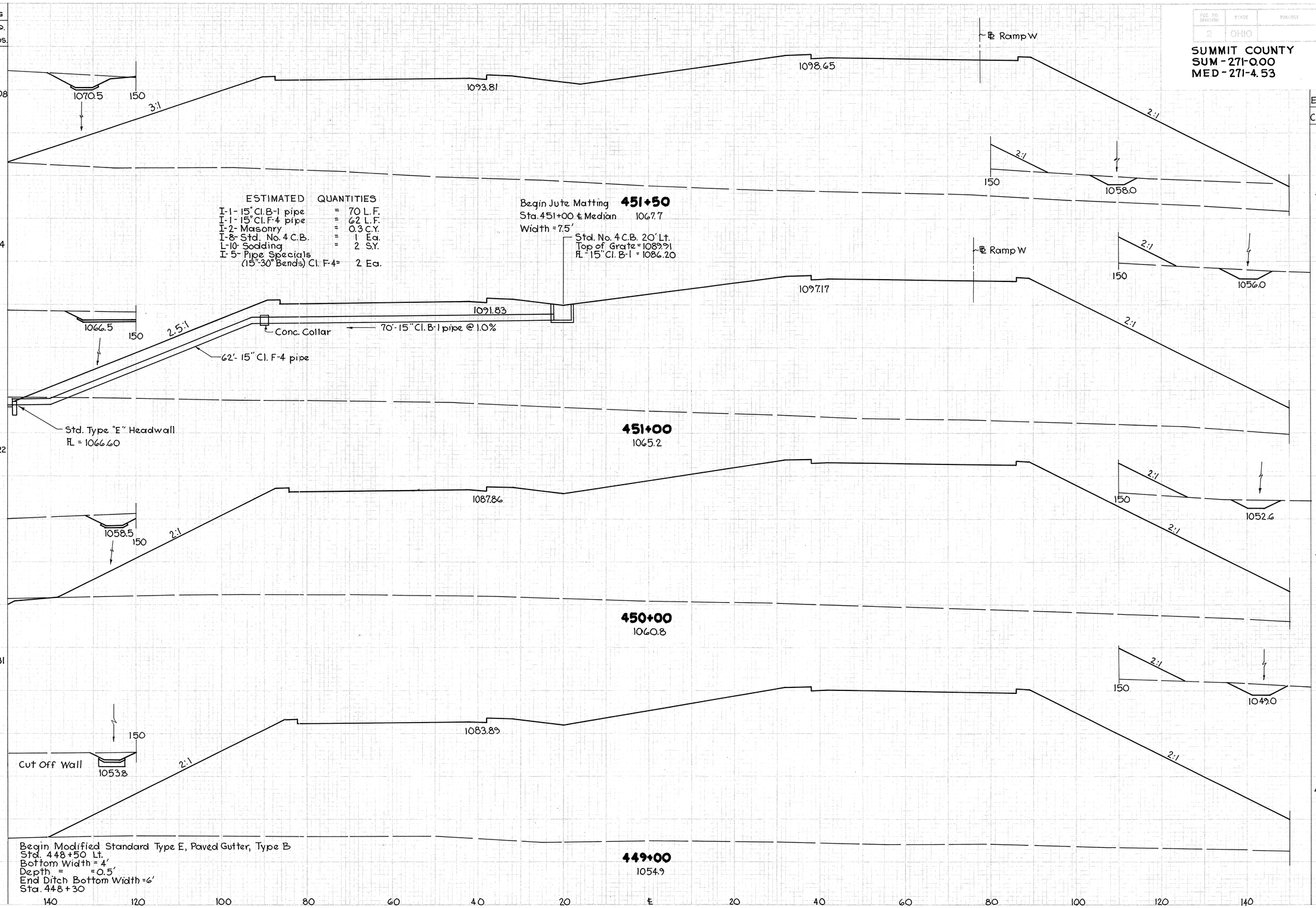
Sta. 445+00 to 448+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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SUMMIT COUNTY
SUM - 271-0.00
MED - 271-4.53

Seeding End Width	Seeding Sq. Yds.
1608	327
1614	326
1622	330
1831	329



End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
		92	11751
48	6668		
		77	12509
35	6841		
		145	25715
43	7045		
		157	27127
41	7604		

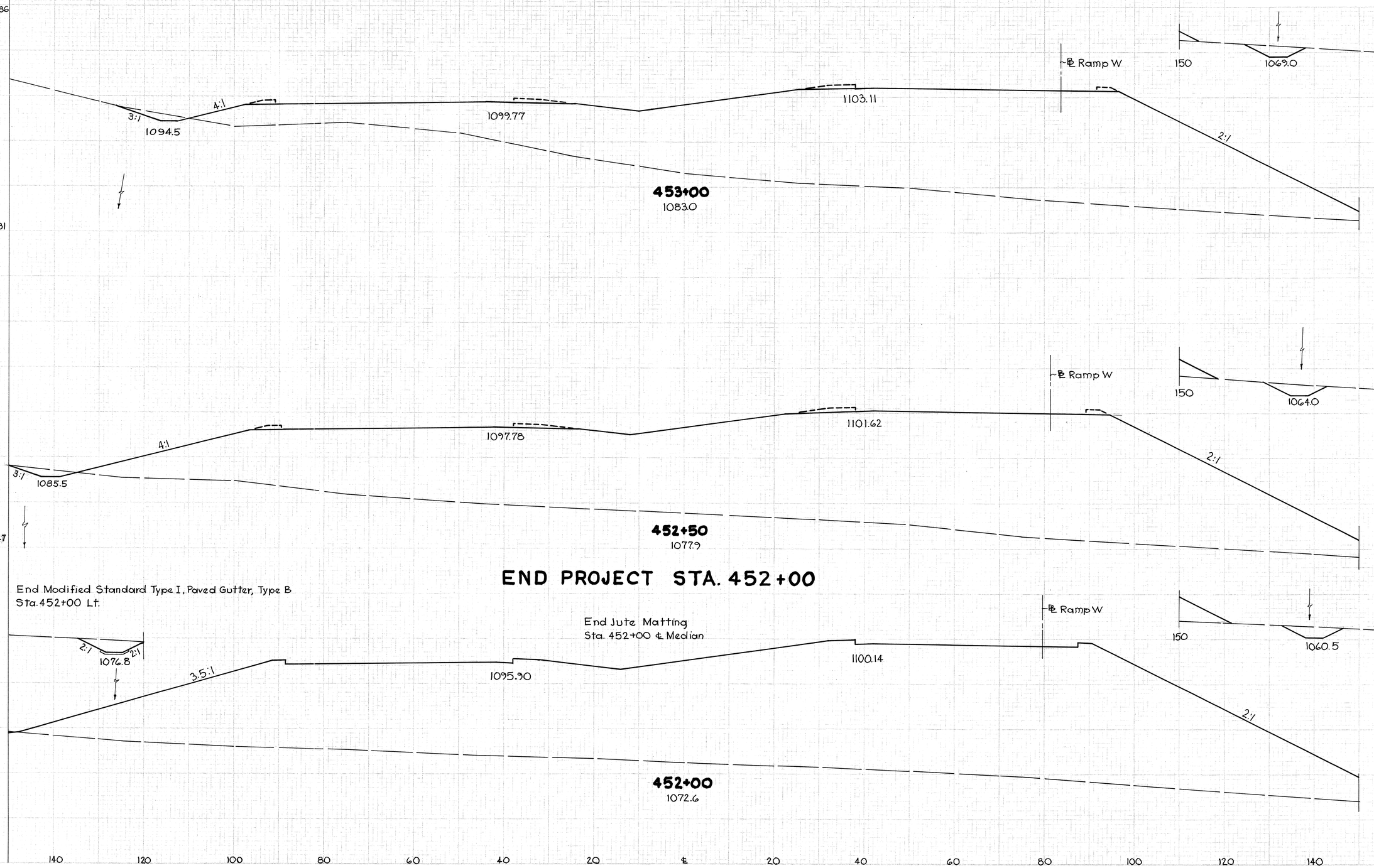
Sta. 449+00 to 451+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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SUMMIT COUNTY
SUM-271-0.00
MED-271-4.53

Seeding End Width	Seeding Sq Yds
418	2286
	2331
421	
	2347
424Ah 324Bk	



END PROJECT STA. 452+00

End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
		859	5163
220	3468		
		279	7806
81	4963		
123	10172		
52	6023		

Sta. 452+00 to 453+00

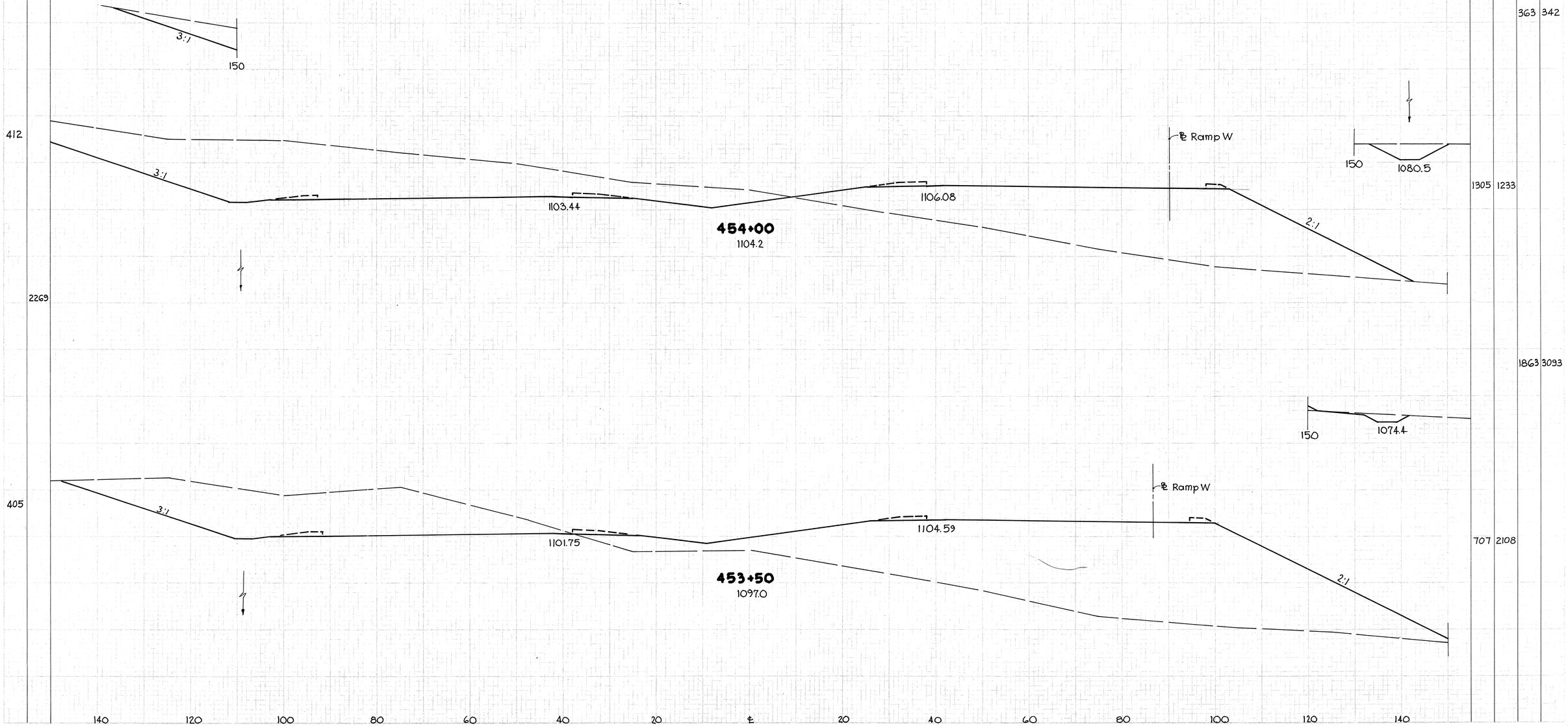
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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SUMMIT COUNTY
SUM - 271-0.00
MED - 271-4.53

END GRADING STA. 454+15

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
0		0	0		
	675			363	342
		150	1080.5		
412				1305	1233
		150	1074.4		
	2269			1863	3093
405				707	2108



Sta. 453+50 to 454+00

P.I.* 1 Sta. 43+15.00
Δ = 17°-13'-30"
D = 4°-30'
R = 1,273.24'
L = 382.77'
T = 192.84'
E = 14.52'

Ref. P.O.T. Sta. 45+64
29.3' 4" Elm
5' ℄ C.R. 44
R.R. Spike
44.54'
3" Pine, 3rd. fm. N. Cor.

Ref. P.O.T. Sta. 60+20±
8" W. Chr. 0.3' 46.6' 47.36' 8" Ash
℄ C.R. 44
32.21'
R.R. Spike

Begin Sheet Sta. 43+00
Transition Pav't. Width and x-slope to meet existing Pav't.
25'
Begin Work 44+30
Begin Pav't. 44+50
P.T. 45+04.93
Begin Approach Slab 48+33.25
End Approach Slab 48+58.25
LA R/W
88°-34'-00"
340
50+00 C.R. 44 = 338+82.42 I-271
LA R/W
Begin Approach Slab 51+47.75
End Approach Slab 51+72.75
25' Transition Pav't. Width and x-slope to meet existing Pav't.
End Pav't. 52+40
End Work 52+75
End Sheet Sta. 54+00
℄ STATE RD. - C.R. 44
S 2°-37'-22" E
50
12" C.M.P.
℄ I-271 N 85°-56'-38" E
P.I.* 1
Gravel Dr.
2 Sty. Fr. Res.
22' ±
Gravel Surface
25'
R/W
I-D, I-R, 2-D, 3-D, I-A, 4-D, 2-R, I-P, 3-R, 4-R, 5-D, 2-P

TYPICAL SECTION EXISTING ROADWAY

B.M. E-30 Elev. 1111.46
Mine Spike in base of 14" Hickory, 40' Rt. ℄ I-271 Sta. 339+10

1123.40 1125.09 1126.79 1128.49 1130.19 1131.88 1133.58 1135.28 1136.98 1138.67 1140.37 1142.07 1143.77 1145.46 1147.17 1148.11 1149.14 1150.28

Bridge No. MED-271-0579
Type: Continuous steel beams with reinforced concrete deck and substructure
Spans: 57'-6"; 82'-0"; 82'-0"; 65'-6"
Roadway: 24'-0" face to face of 2'-0" safety curbs
Load Frequency: C.F.=130 (57)
Skew: 1°-26' Rt. Ahead (0°-00' with Pier No. 2)
Wearing Surface: 1" Monolithic Concrete
Approach Slabs: AS-1-54 (25' Long)
Alignment: Tangent

1170 1160 1150 1140 1130 1120

+3.3945%
Begin Work
Existing 12" C.M.P.-14' Rt.
P.V.I. 51+90 Elev. 1148.52
P.V.C. 51+40 Elev. 1146.82
P.V.T. 52+40 Elev. 1151.01
100' V.C.
+4.97%
48+58.25
51+47.75
Bridge Limits 289.50'
48" Cl. A-1 Pipe Ft. = 1112.50 Lt. Ft. = 1113.50 Rt.
Existing 36" C.M.P.
18" Cl. A-1 Pipe Ft. = 1142.98 - 37' Lt Ft. = 1142.22 - 39' Rt.

1109.5 1120.2 1122.0 1121.1 1123.0 1128.4 1135.1 1140.0 1144.2 1149.0 1153.5 1157.5

43 44 45 46 47 48 49 50 51 52 53 54

MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

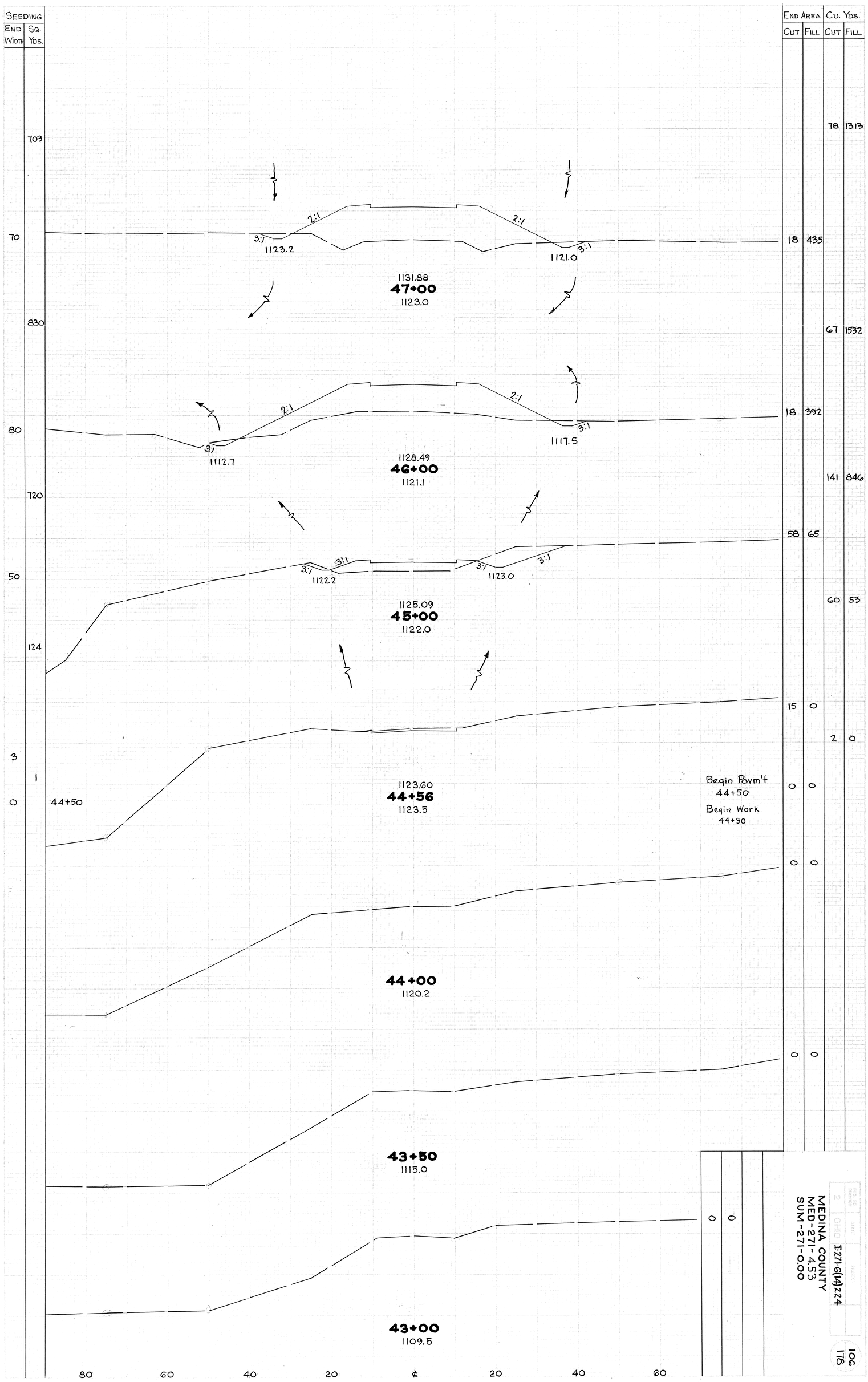
105
178

ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	I-1 Cl. A-1 Pipe 18" Lin. Ft.	I-1 Cl. A-1 Sec. M-6.6(b) 48" Lin. Ft.	I-2 Masonry Type E Headwall Cu. Yd.	I-7 Reinf. Conc. Approach Slab t.=13" Sq. Yd.	I-10 Dumped Rock Channel Protection Cu. Yd.	I-10 6" Reinf. Conc. Rip Rap Sq. Yd.	I-15 Guard Rail Lin. Ft.	L-10 Sodding Sq. Yd.	L-10 Spec. Sodding for Berms and Slopes Sq. Yd.	E-3 Channel Excavation Cu. Yd.	E-12 Pipe Removal Over 15' Lin. Ft.	T-35 Asphaltic Conc. Type C 2½" Courses Cu. Yd.	B-19 Stabilized Crushed Aggr. Base Course 5" Cu. Yd.	SEE SHEET NO.
															2.6	
I-D	46+15	L & R									16					121
2-D	48+43	L & R									13					
3-D	51+61	L & R														
4-D	46+11									5			46			126
5-D	52+00											510				
I-R	45+59 to 48+47	Lt.							287.5							
2-R	44+96 to 48+46	Rt.							350							
3-R	51+59 to 52+59	Lt.							100							
4-R	51+60 to 51+85	Rt.							25							
I-P	48+32.25 to 48+58.25					@ 6.65										
2-P	51+47.75 to 51+72.75					@ 6.65										
I-A	44+70	Lt.														
TOTALS			76*	88	17.8	133.3	39	7	762.5	17	29	510	46	1	2.6	

* Sec. M-6.6(a), M-6.8(a), or M-6.5(a)

STATE RD. - C.R. 44 Sta. 43+00 to 54+00


SEEDING
END WIDTH
SQ. YDS.
END AREA
CUT
FILL
CU. YDS.
CUT
FILL
703
70
830
80
720
50
124
3
1
0
18
435
18
392
58
65
15
0
0
0
0
0
0
78
1313
67
1532
141
846
60
53
2
0
2:1
3:1
1123.2
1121.0
1131.88
47+00
1123.0
1112.7
1117.5
1128.49
46+00
1121.1
1122.2
1123.0
1125.09
45+00
1122.0
44+50
1123.60
44+56
1123.5
Begin Pavm't
44+50
Begin Work
44+30
44+00
1120.2
43+50
1115.0
43+00
1109.5
80
60
40
20
℄
20
40
60
STATE RD. - C.R. 44 Sta. 43+00 to 47+00
MEDINA COUNTY
MED-271-4.53
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106
178

End Area Cu. Yds.			
Cut	Fill	Cut	Fill
0	0	0	0
0	0	74	57
0	0	99	402
53	410	5	2
54	25	0	0
0	0	7	63
0	0	46	465
23	2000	24	274

Seeding End Width	Seeding Sq. Yds.
0	0
50	111
50	278
50	14
0	0
53	0
56	330
56	0

FED. NO. DIVISION: 2 | STATE: OHIO | PROJECT: I-271-6(14)224

MEDINA COUNTY
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End Work
52+75

Zero Section
Sta. 51+45

Zero Section
Sta. 48+70

54+00
1157.5

53+00
1153.5

1149.14
52+00
1149.0

1147.17
51+50
1146.5

49+00
1135.1

1137.08
48+53
1131.9

1135.28
48+00
1128.4

2:1
4:1
1142.2
1143.0
3:1
1145.5
1134.0
1133.5
1131.5
1129.0

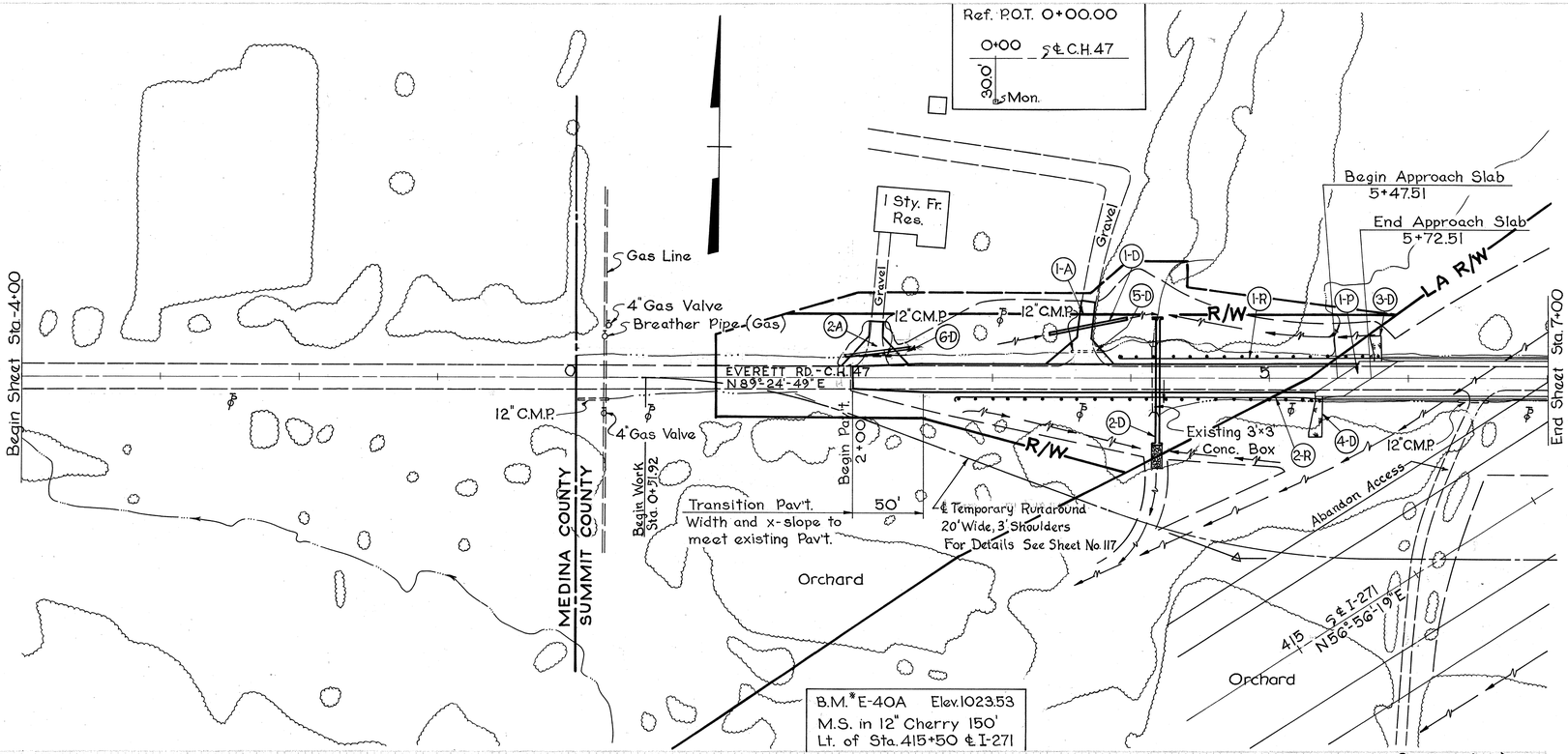
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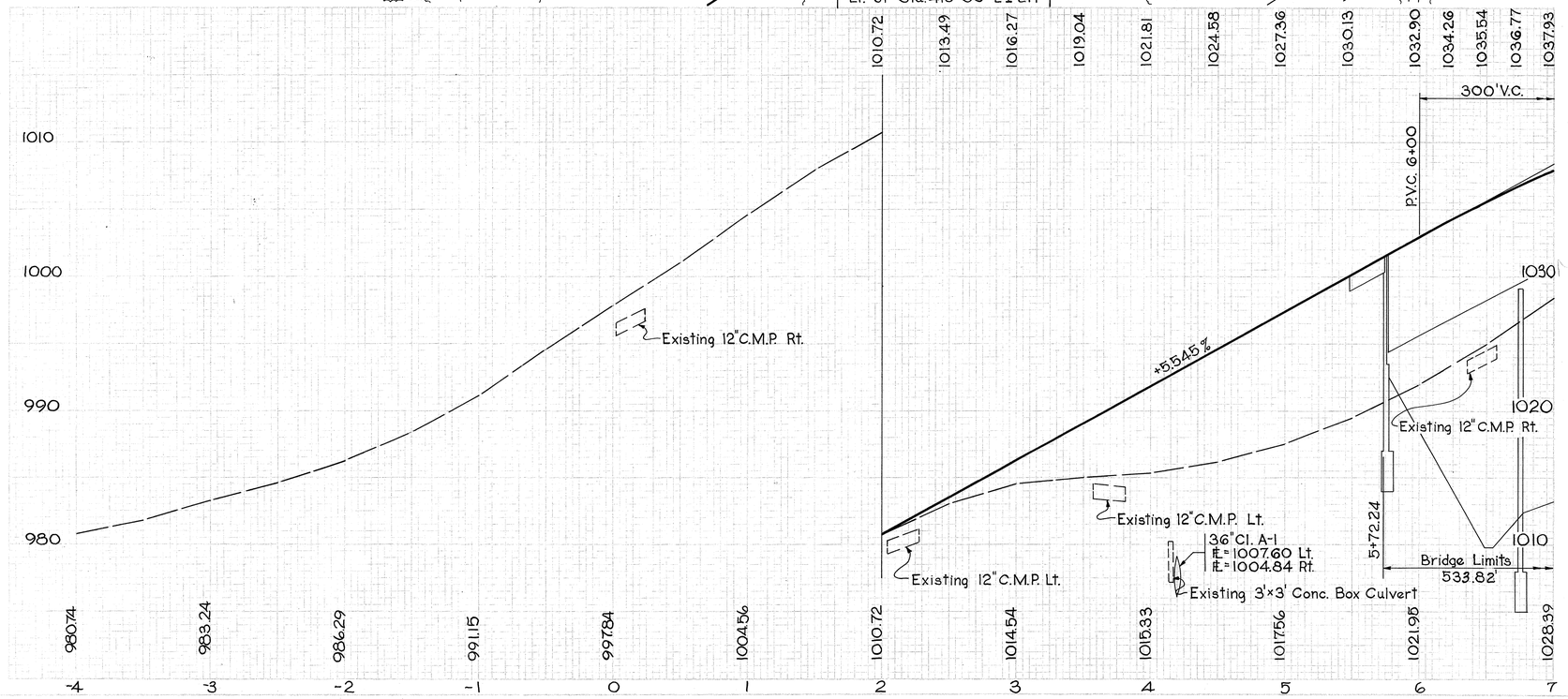
STATE RD.- C.R.44 Sta. 48+00 to 54+00

SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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178

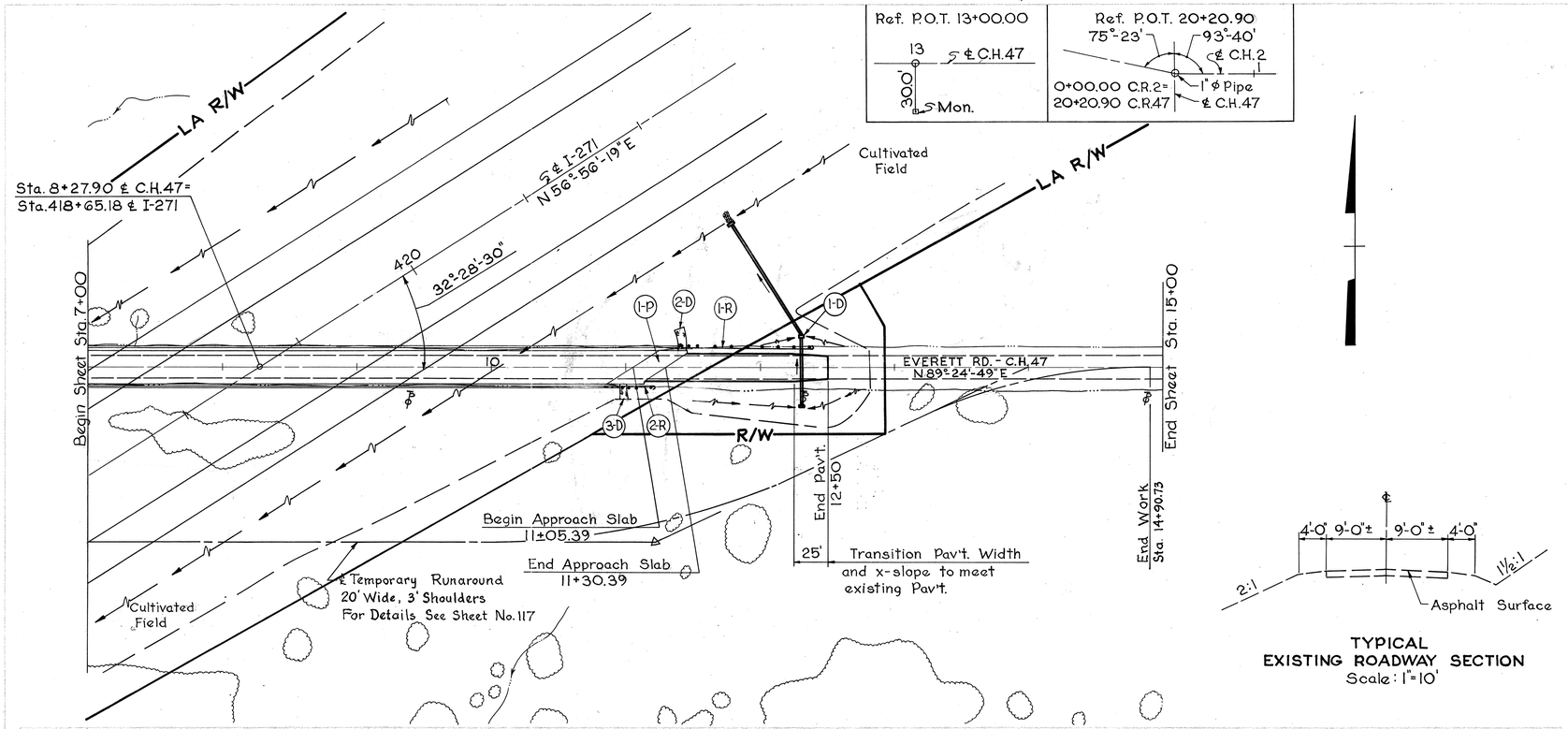




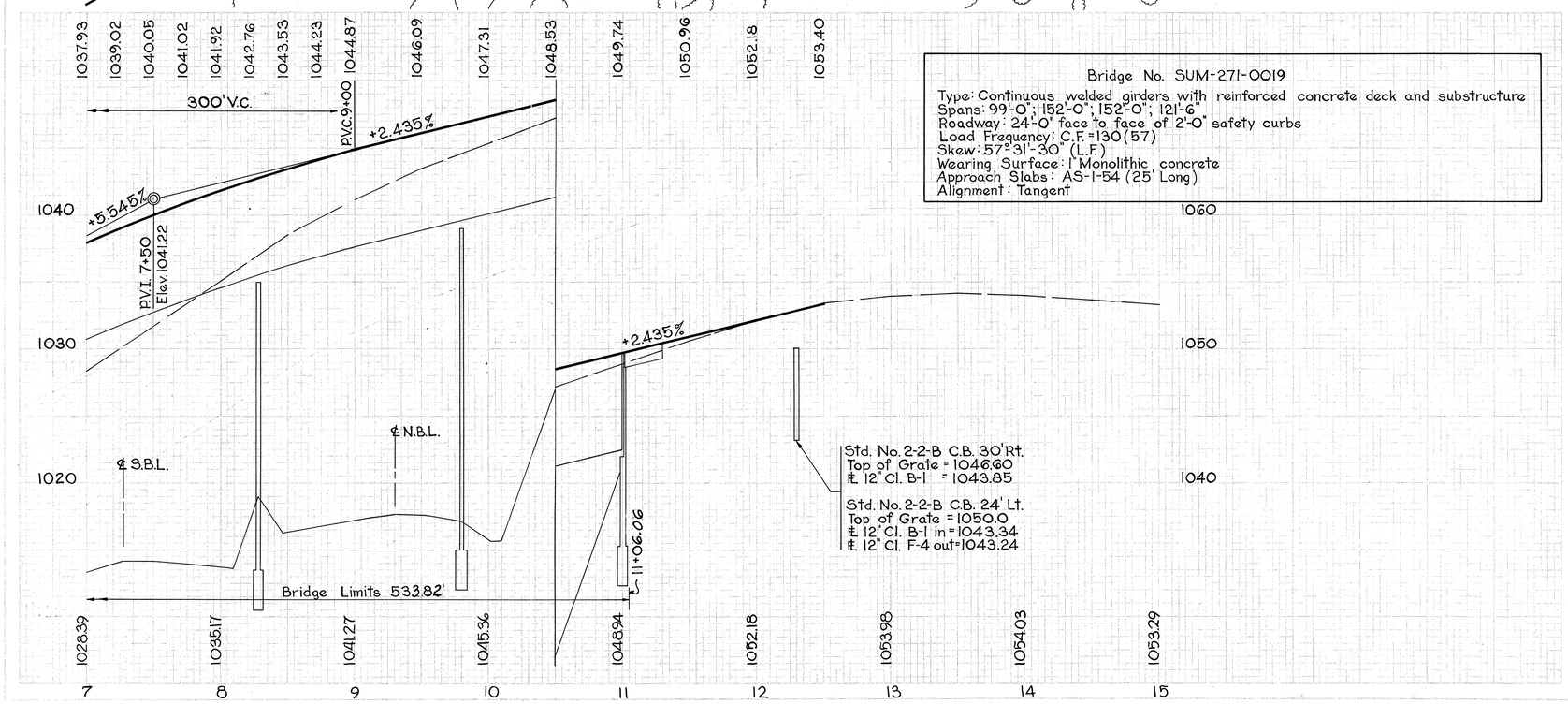
ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	I-1 Cl. A-1 (Tx.806) M-6.6 (b) or M-6.4 (d) 36" Lin. Ft.	I-2 Cl. C-4 Pipe 12" Lin. Ft.	I-2 Masonry Type E Headwall Cu. Yd.	I-7 Reinf. Conc. Approach Slab t=13" Sq. Yd.	I-10 Dumped Rock Channel Protection Cu. Yd.	I-15 Guard Rail Lin. Ft.	L-10 Spec. Sodding For Berms and Slopes Sodding Sq. Yd.	E-12 Pipe Removal 15" & Under Lin. Ft.	B-19 Stabilized Crushed Aggr. Base Course 5" Cu. Yd.	B-19 Stabilized Crushed Aggr. Base Course 8" Cu. Yd.	S-24 Removal of Existing Structure Lump Sum	T-35 Type C Asphaltic Concrete 2-1" Courses Cu. Yd.	SEE SHEET NO.
1-D	3+62	Lt.		58	1.2		10		8						
2-D	4+19														
3-D	5+78	Lt.													
4-D	5+38	Rt.													
5-D	3+56 to 3+80	Lt.													
6-D	2+20	Lt.													
			92	50						2.4	9.9	7.4	Lump Sum	3.9	12.1
1-R	3+92 to 5+79	Lt.						187.5	1.4						
2-R	2+75 to 5+37	Rt.						262.5	2.4	2.4					
1-P	5+47.24 to 5+72.24					66.7									
1-A	3+62	Lt.									9.9	3.0	Lump Sum	3.9	12.1
2-A	2+20	Lt.													
TOTALS			92	108	1.2	66.7	10	450.0	8	2.4	19.8	10.4	Lump Sum	7.8	

EVERETT RD.- C.H. 47 Sta. -4+00 to 7+00



TYPICAL
EXISTING ROADWAY SECTION
Scale: 1"=10'

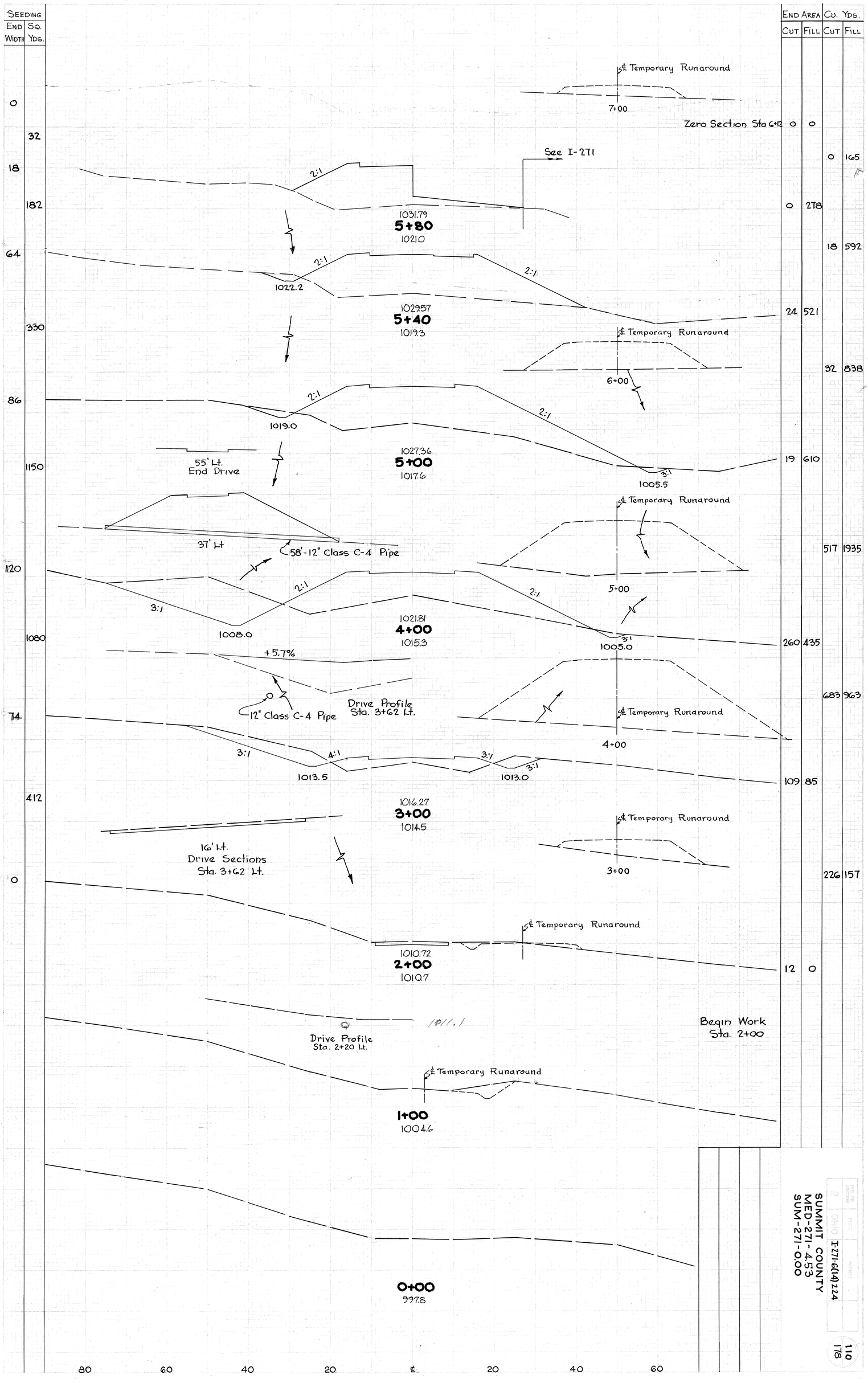


Bridge No. SUM-271-0019
Type: Continuous welded girders with reinforced concrete deck and substructure
Spans: 99'-0"; 152'-0"; 152'-0"; 121'-6"
Roadway: 24'-0" face to face of 2'-0" safety curbs
Load Frequency: C.F.=130(57)
Skew: 57°31'-30" (L.F.)
Wearing Surface: 1" Monolithic concrete
Approach Slabs: AS-1-54 (25' Long)
Alignment: Tangent

ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	I-1 Class B-1	I-1 Class F-4	I-2 Masonry Type E	I-5 Pipe Special Class F-4 Band 12"-30°	I-7 Reinf. Conc. Approach Slab t=13"	I-8 Std. No. 2-2-B C.B.	I-10 Dumped Rock Channel Protection	I-15 Guard Rail	L-10 Spec. Sodding for Berms and Slopes	Sodding	SEE SHEET NO.
			12" Lin. Ft.	12" Lin. Ft.	Headwall Cu. Yd.	Each	Sq. Yd.	Each	Cu. Yd.	Lin. Ft.	Sq. Yd.	Sq. Yd.	
1-D	12+30		52	106	0.4	2		1	2	4	10	4	111
2-D	11+44	Lt.									9		
3-D	11+02	Rt.											
1-R	11+40 to 12+40	Lt.								100			
2-R	10+96 to 11+21	Rt.								25			
1-P	11+06.06 to 11+31.06						66.7						
TOTALS			52	106	0.4	2	66.7	1	2	125	19	4	

EVERETT RD. - C.H.47 Sta. 7+00 to 15+00



EVERETT RD.- C.H. 47 Sta. 0+00 to 6+50

SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

2	OHIO	DIVISION	DIST.	PROJECT	
			12	I-271-6(14)224	

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178

Seeding End Width	Seeding Sq. Yds.	End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
0		0	0		
	277			200	26
60		130	17		
	256			147	43
32		29	29		
	53			9	20
24		0	34		
	55			0	26
0		0	0		

5℄ Temporary Runaround

14+00
1054.0

5℄ Temporary Runaround

13+00
1054.0

Estimated Quantities

I-1	12" Cl. B-1 Pipe	= 52 L.F.
I-1	12" Cl. F-4 Pipe	= 106 L.F.
I-8	Std. No 2-2A CB	= 1 Ea.
I-2	Masonry	= 0.4 C.Y.
L-10	Sodding	= 4 S.Y.
I-10	Dumped Rock Channel Protection	= 2 C.Y.

Sta 12+30, 24' Lt.
Std No 2-2-B C.B.
Top of Grate = 1050.00
℄ 12" Cl. B-1 in = 1043.34
℄ 12" Cl. F-4 out = 1043.24

End Work
Sta. 12+83

5℄ Temporary Runaround

13+00

3:1 2:1 3:1

1047.0

52'-12" Cl. B-1

Type E Headwall
℄ = 1047.0

105218

For Continuation of Drainage See Sheet No. 93

12+00
1052.2

5℄ Temporary Runaround

12+00

See I-271

3:1 3:1

105096
1047.5

11+50
1050.6

5℄ Temporary Runaround

11+00

See I-271

105055

11+33
1050.0

5℄ Temporary Runaround

10+00

Zero Section
Sta. 10+92

10+50
1047.2

5℄ Temporary Runaround

9+00

10+00
1045.4

5℄ Temporary Runaround

8+00

80 60 40 20 ℄ 20 40 60

EVERETT RD. - C.H. 47 Sta. 10+00 to 14+00

SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

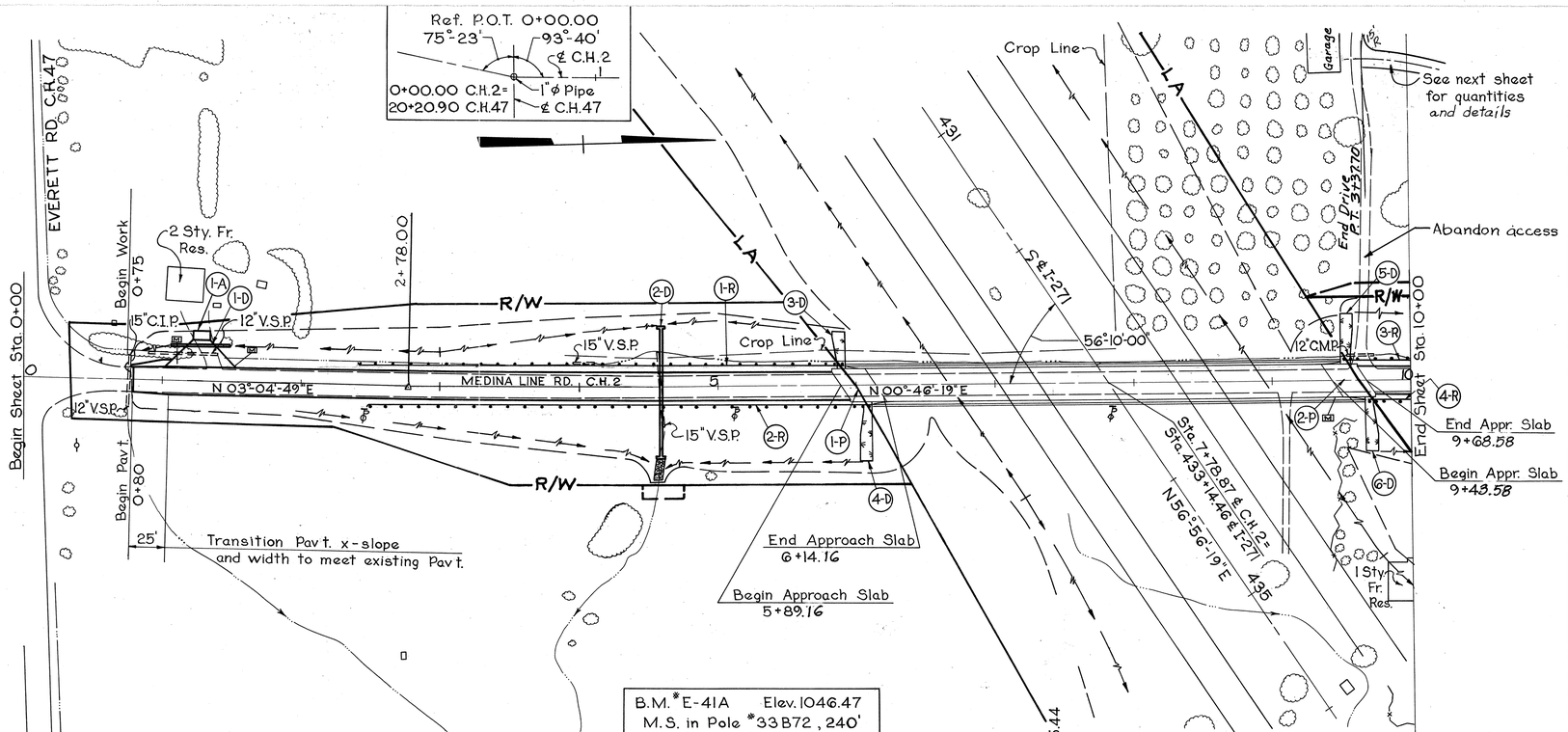
OHIO I-271-6(14)224

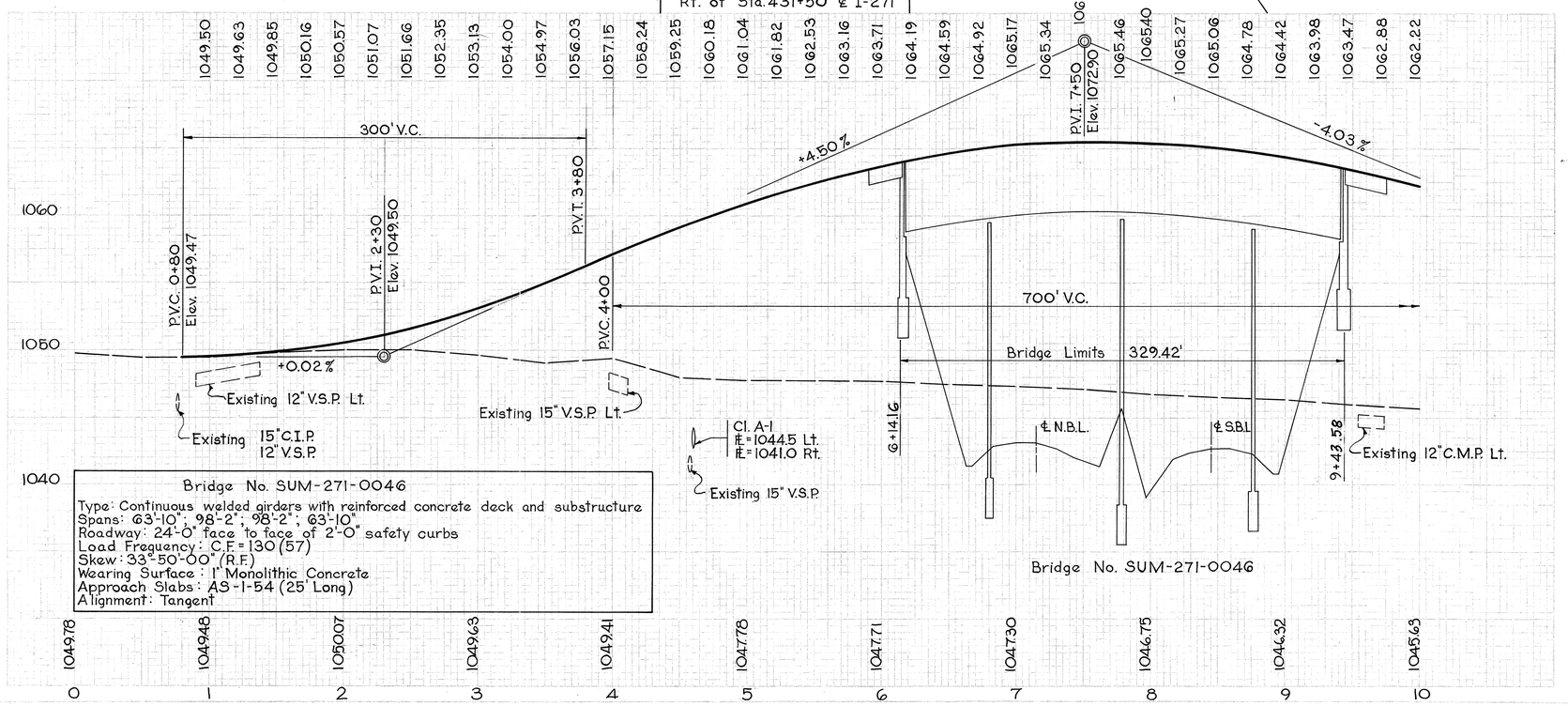
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SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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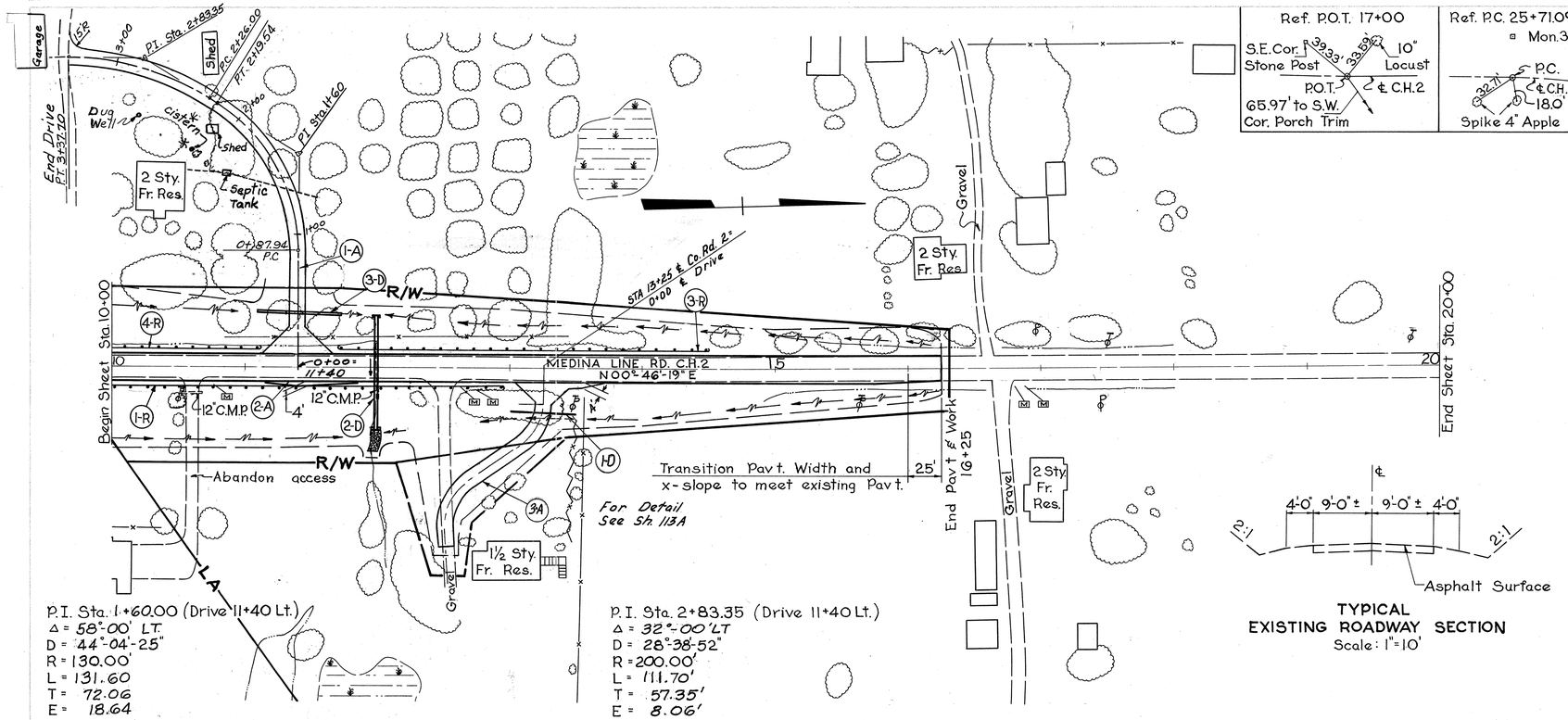
Bridge No. SUM-271-0046
Type: Continuous welded girders with reinforced concrete deck and substructure
Spans: 63'-10"; 98'-2"; 98'-2"; 63'-10"
Roadway: 24'-0" face to face of 2'-0" safety curbs
Load Frequency: C.F. = 130 (57)
Skew: 33°-50'-00" (R.F.)
Wearing Surface: 1" Monolithic Concrete
Approach Slabs: AS-1-54 (25' Long)
Alignment: Tangent

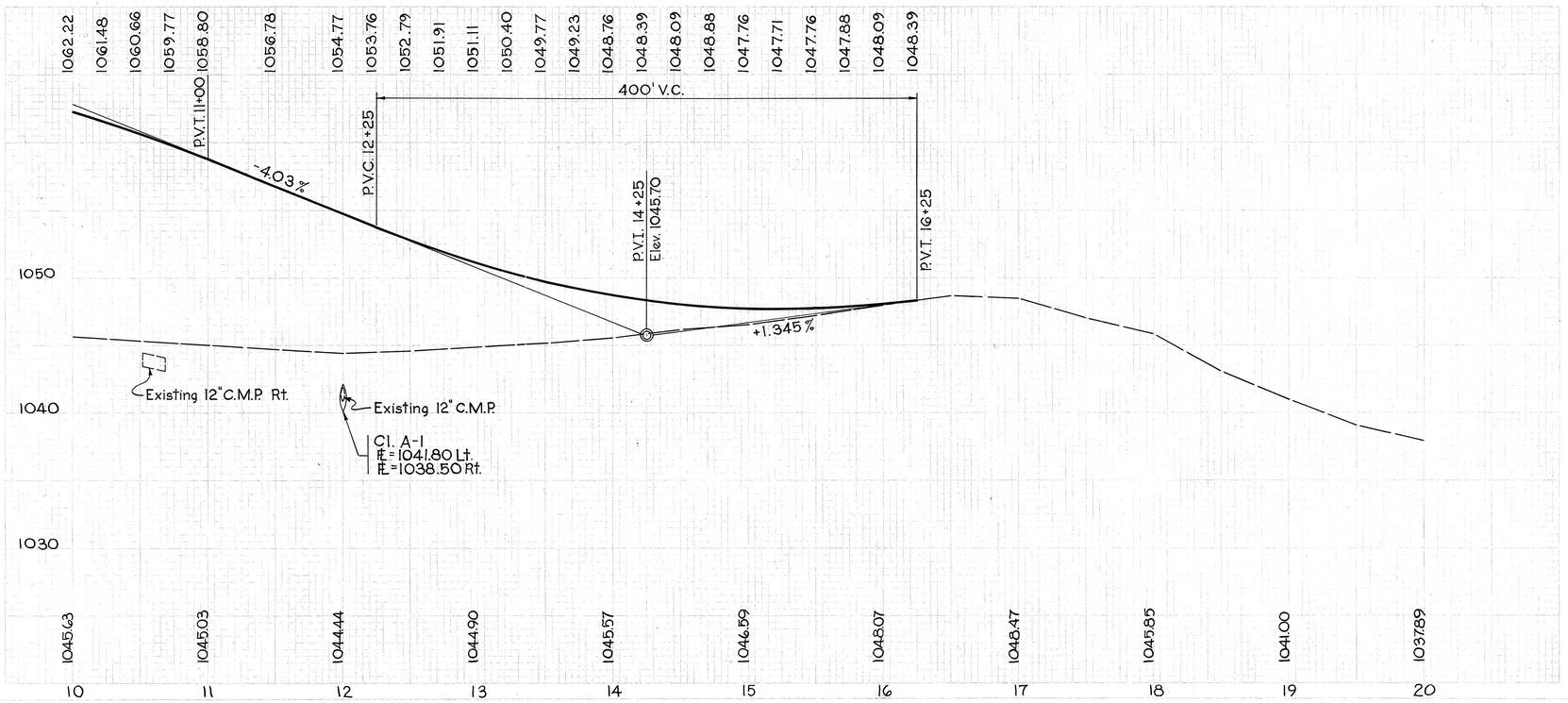
Bridge No. SUM-271-0046

ESTIMATED QUANTITIES

REF. No.	STATION TO STATION	SIDE	I-1 Cl. A-1 Sec. M-6.6(6) 18" Lin. Ft.	I-1 Class C-4 12" Lin. Ft.	I-2 Masonry Type E Cu. Yds.	I-10 Dumped Rock Channel Excavation Cu. Yds.	I-15 Guard Rail Lin. Ft.	L-10 Spec. Sodding for Slopes and Steps Sq. Yds.	L-10 Sodding Sq. Yds.	E-12 Pipe Removal 15"-2 Under Lin. Ft.	T-35 Type C Asphaltic Conc. 2-1½" Course Cu. Yds.	B-19 Stabilized Crushed Aggregate Base 8" 5" Cu. Yds.	I-1 Reinf. Conc. Approach Slab t=13" Sq. Yds.	SEE SHEET NO.
														125
1-D	1+29	Lt.	96	45	0.6	8			5	53				
2-D	4+60							2.2						
3-D	5+91	Lt.						4.4						
4-D	6+07	Rt.						3.4						
5-D	9+54	Lt.						4.4						
6-D	9+67	Rt.												
1-R	2+42 to 5+92	Lt.					350							
2-R	2+49 to 6+11	Rt.					362.5							
3-R	9+50 to 10+00	Lt.					50							
4-R	9+68 to 10+00	Rt.					32							
													66.65	
													66.65	
1-P	5+89.16 to 6+14.16													
2-P	9+43.58 to 9+68.58													
1-A	1+29	Lt.												
											4.5	11.4	1.8	133.3
TOTALS			96	45	0.6	8	794.5	144	5	53	4.5	11.4	1.8	133.3

MEDINA LINE RD. - C.H.2 Sta. 0+00 to 10+00





SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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SEE SHEET NO. 125 1134

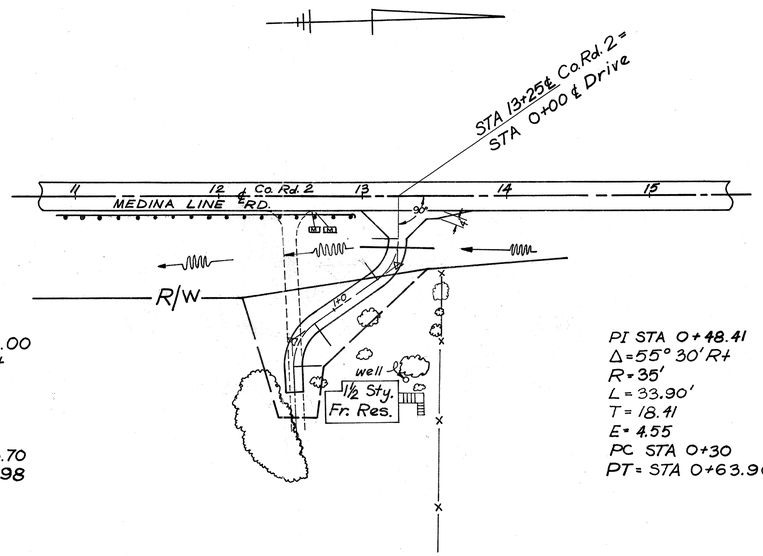
ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	I-1 Cl. A-1 Sta. Mat'l (or Mat'l & Dia.) 24" Lin. Ft.	I-1 Class C-4 12" Lin. Ft.	I-15 Guard Rail Lin. Ft.	I-2 Masonry Type E Cu. Yds.	I-10 Pumped Rock channel Protection Cu. Yds.	L-10 Sodding Sq. Yds.	T-35 Type C Asphaltic Concrete 2½" Course Cu. Yds.	B-19 Stabilized Crushed Aggregate Base 5" Cu. Yds.	B-19 8" Cu. Yds.
1-D	13+25			51							
2-D	12+00										
3-D	11+40	Lt.	88	63							
1-R	10+00 to 12+93	Rt.			293						
3-R	11+15 to 14+50	Lt.			275				3.9	9.9	92.2
4-R	10+00 to 11+12	Lt.			112.5				1.0	2.6	
									15.0	40.1	
1-A	11+40	Lt.									
2-A	11+47	Rt.									
3-A	12+47	Rt.									
	TOTALS		88	114	680.5	0.8	8	6	19.9	52.6	92.2

MEDINA LINE RD.- C.H.2 Sta. 10+00 to 20+00

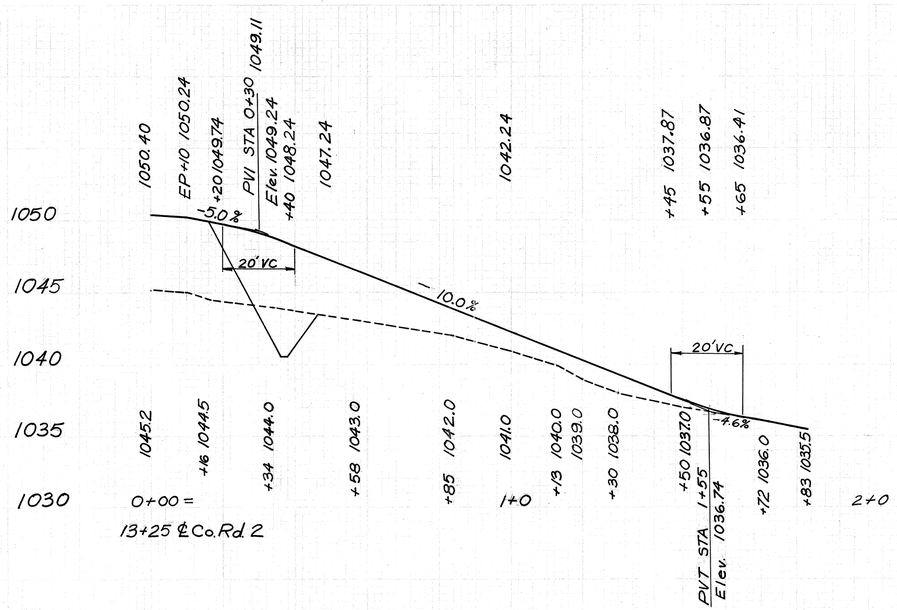
STATE ROUTE	STATE	PROJECT		113A
2	OHIO			178

MEDINA AND SUMMIT COUNTIES
MED - 2.71 - 4.53
SUM - 2.71 - 0.00

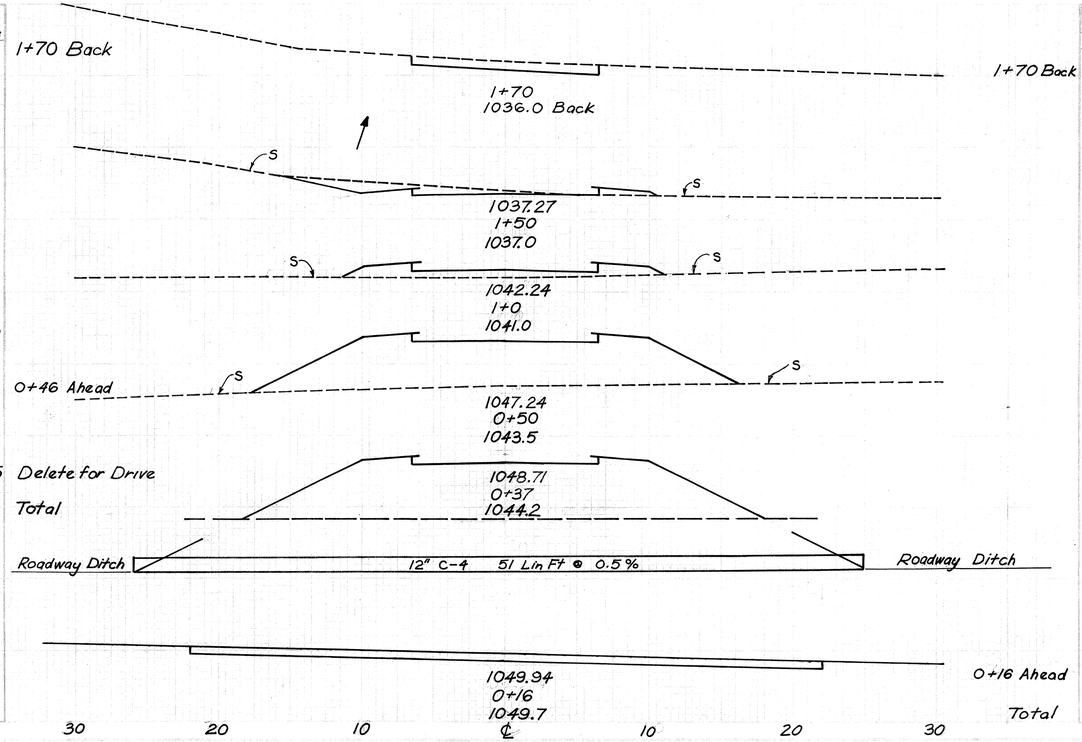


PI STA 1+36.00
Δ = 57° 15' Lt
R = 35'
L = 35.28'
T = 19.30'
E = 4.97
PC STA 1+16.70
PT STA 1+51.98

PI STA 0+48.41
Δ = 55° 30' Rt
R = 35'
L = 33.90'
T = 18.41
E = 4.55
PC STA 0+30
PT = STA 0+63.90

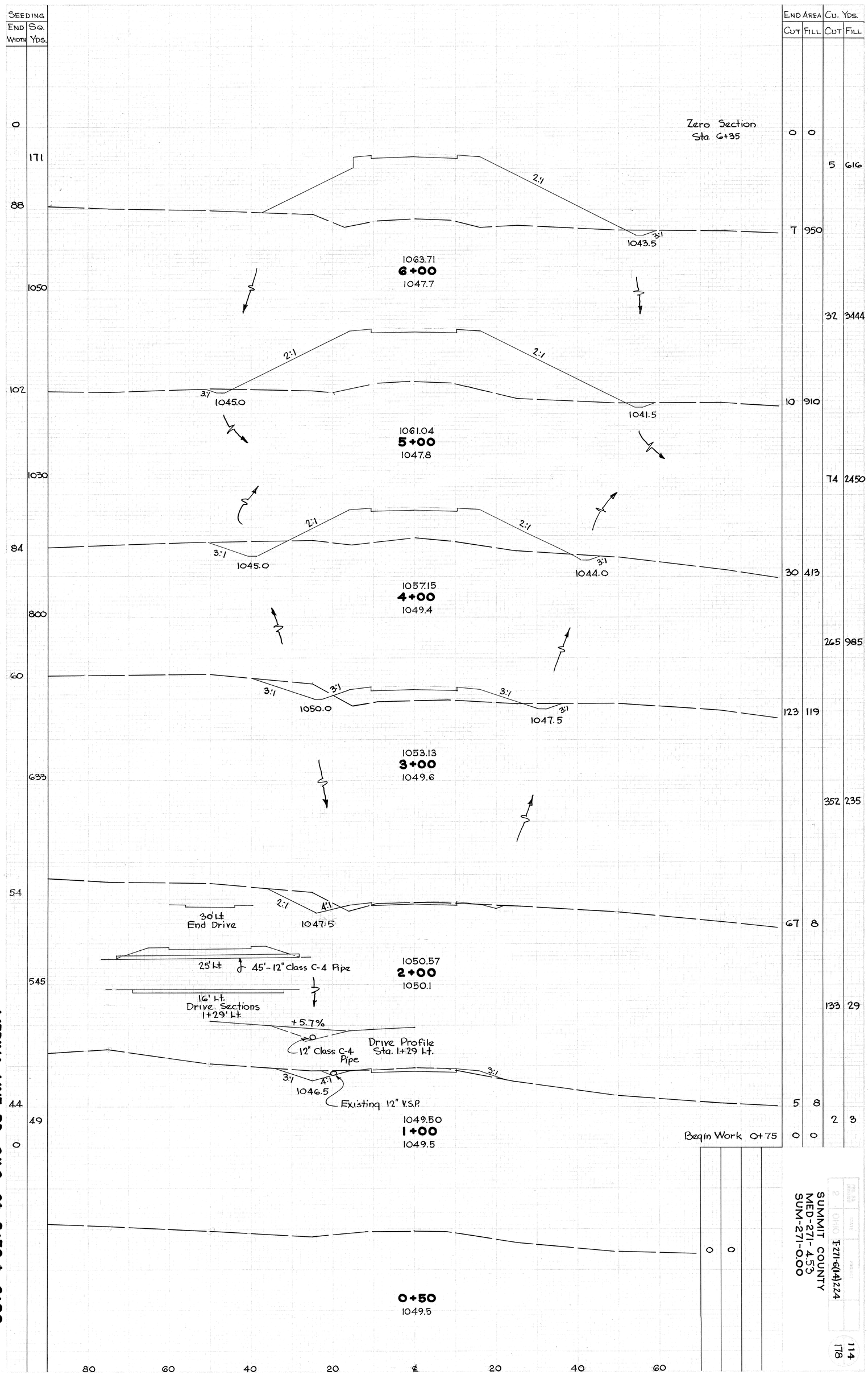


Seeding End Width	SQ YD'S
4	
	24
18	
	89
14	
	123
27	
-105	Delete for Drive
131	Total



	END AREA SQ. FT. CUT	FILL	VOLUME CU. YDS. CUT	FILL
1+70 Back	8	0		
			8	1
	13	2		
			12	11
	0	10		
			0	97
	0	95		
			0	51
	0	118		
			5	24
0+16 Ahead	26	0		
Total			25	184

DRIVE Rt STA 13+25 ℄ CO. RD. 2

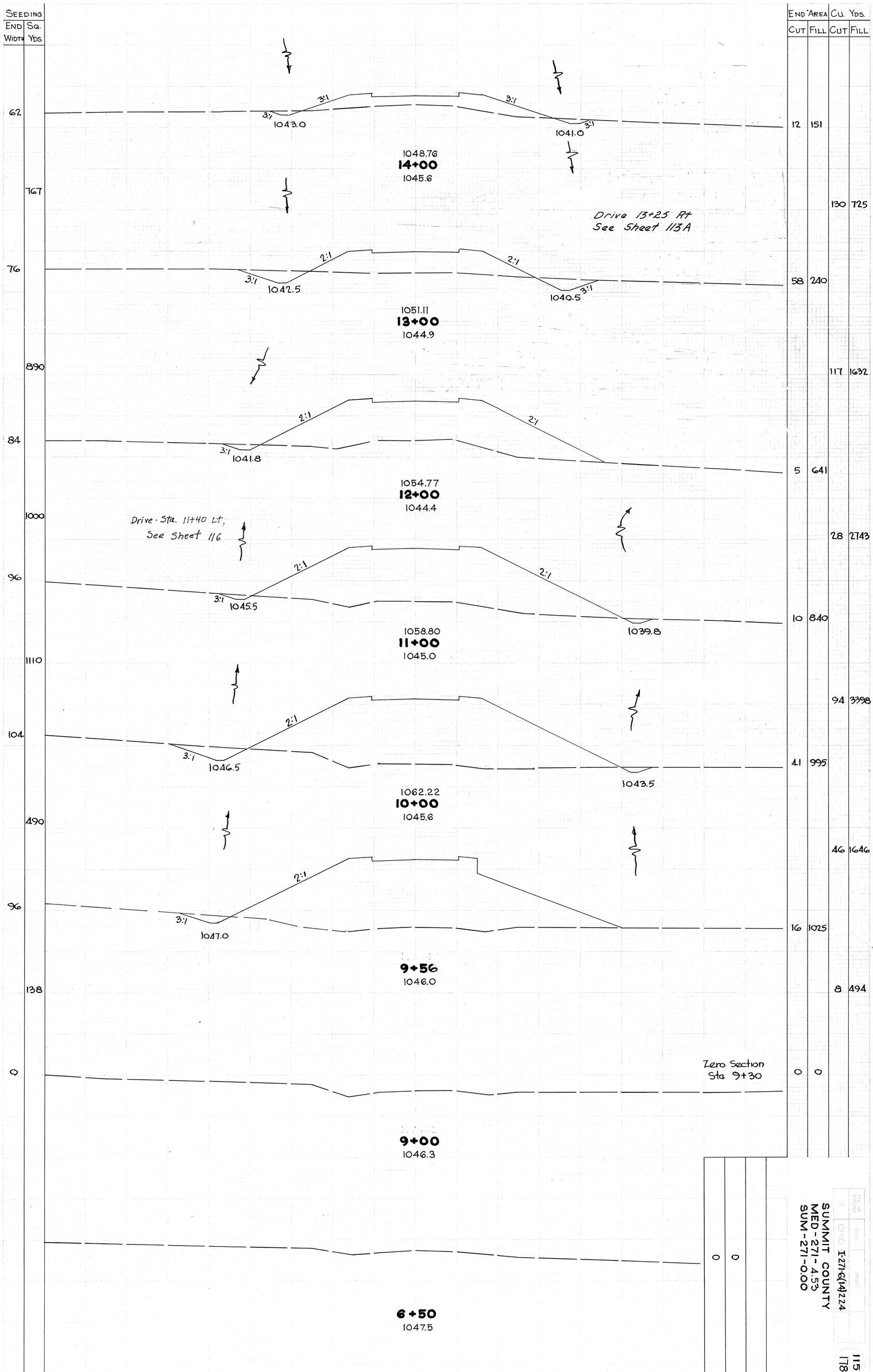


MEDINA LINE RD. - C.H. 2 Sta. 0+50 to 6+00

SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

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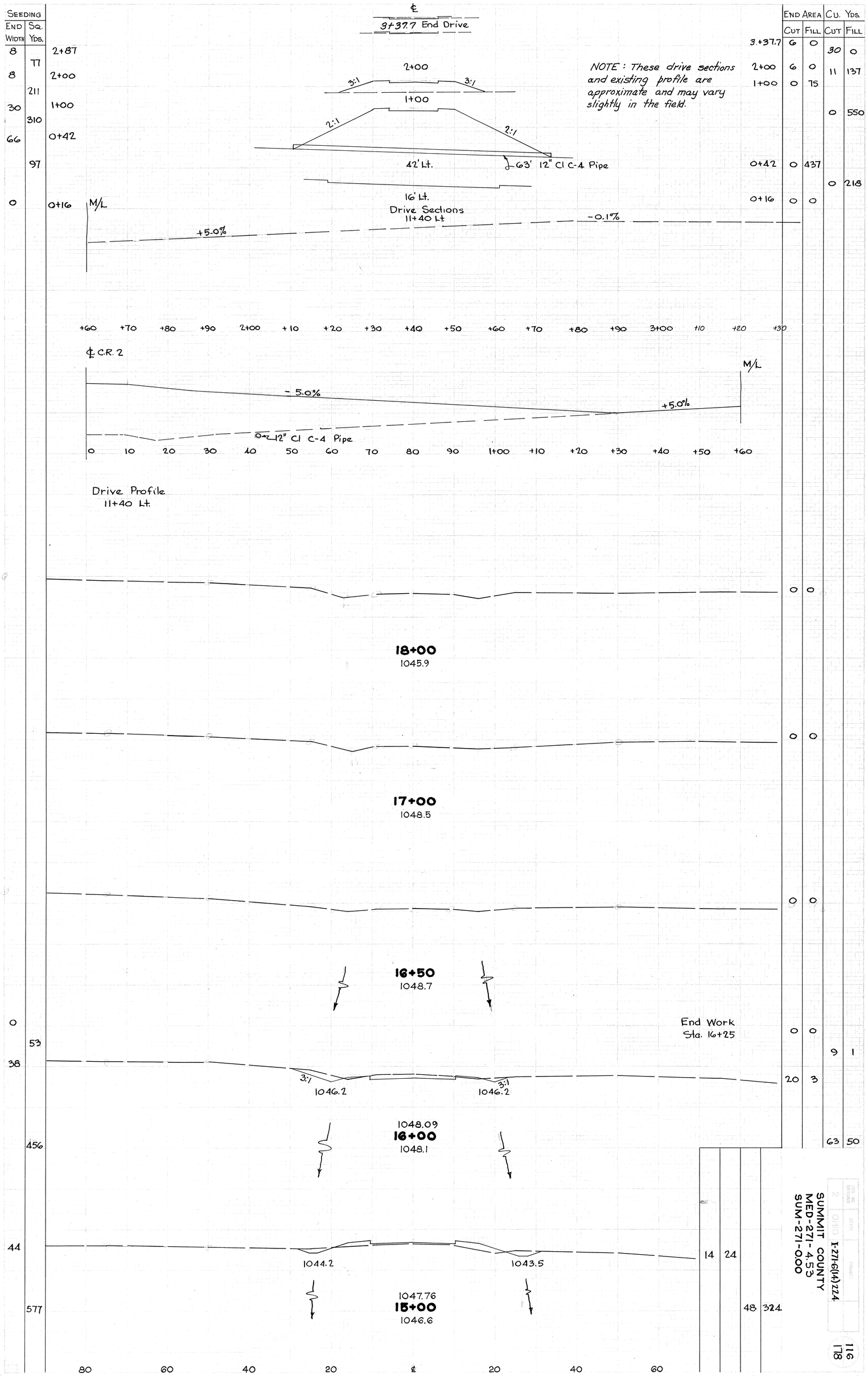


MEDINA LINE RD. - C.H. 2 Sta. 6+50 to 14+00

SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

OHIO I-271-6(14)224

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Seeding End Width	Seeding Sq. Yds.		End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
		3+37.7	6	0		
8					30	0
	77	2+87				
8		2+00	6	0	11	137
	211					
30		1+00	0	75		
	310				0	550
66		0+42				
	97		0	437		
					0	218
0		0+16	0	0		
			0	0		
			0	0		
			0	0		
0						
	53		0	0		
					9	1
38			20	3		
	456				63	50
44			14	24		
	577		48	324		

MEDINA LINE RD.-C.H.2 Sta. 15+00 to 18+00

SUMMIT COUNTY
MED-271-4.53
SUM-271-000

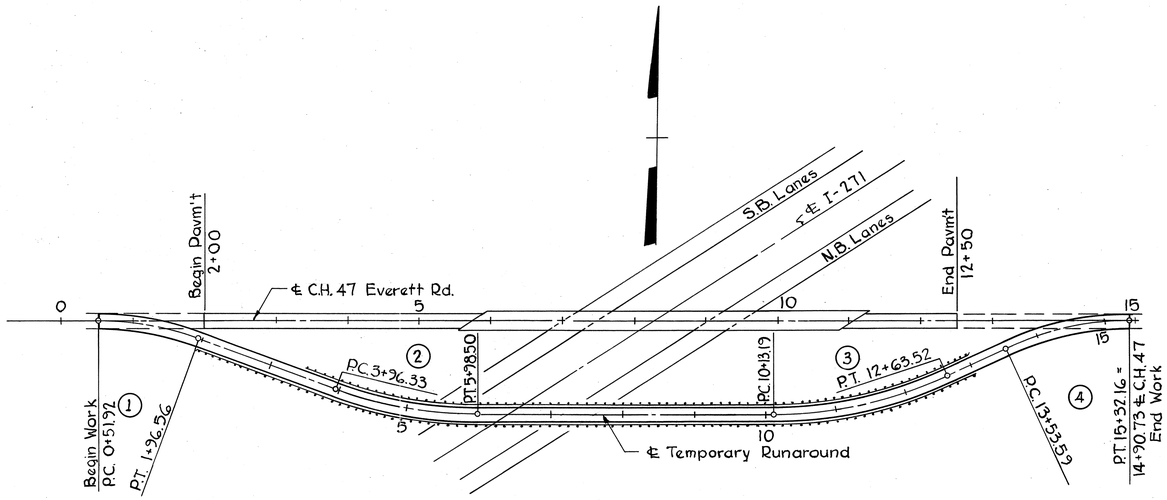
I-271-6(14)224

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FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00



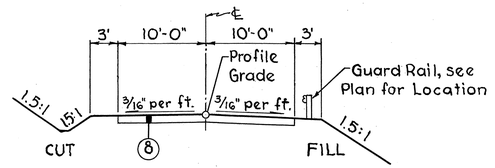
① P.I. Sta. 1+25.00
Δ = 20° 15' 00"
Dc = 14° 00' 00"
R = 409.26'
L = 144.64'
T = 73.08'

② P.I. Sta. 4+98.48
Δ = 20° 13' 01"
Dc = 10° 00' 00"
R = 572.96'
L = 202.17'
T = 102.15'

③ P.I. Sta. 11+40.39
Δ = 25° 01' 59"
Dc = 10° 00' 00"
R = 572.96
L = 250.33
T = 127.20

④ P.I. Sta. 14+44.32
Δ = 25° 00' 00"
Dc = 14° 00' 00"
R = 409.26
L = 178.57
T = 90.73

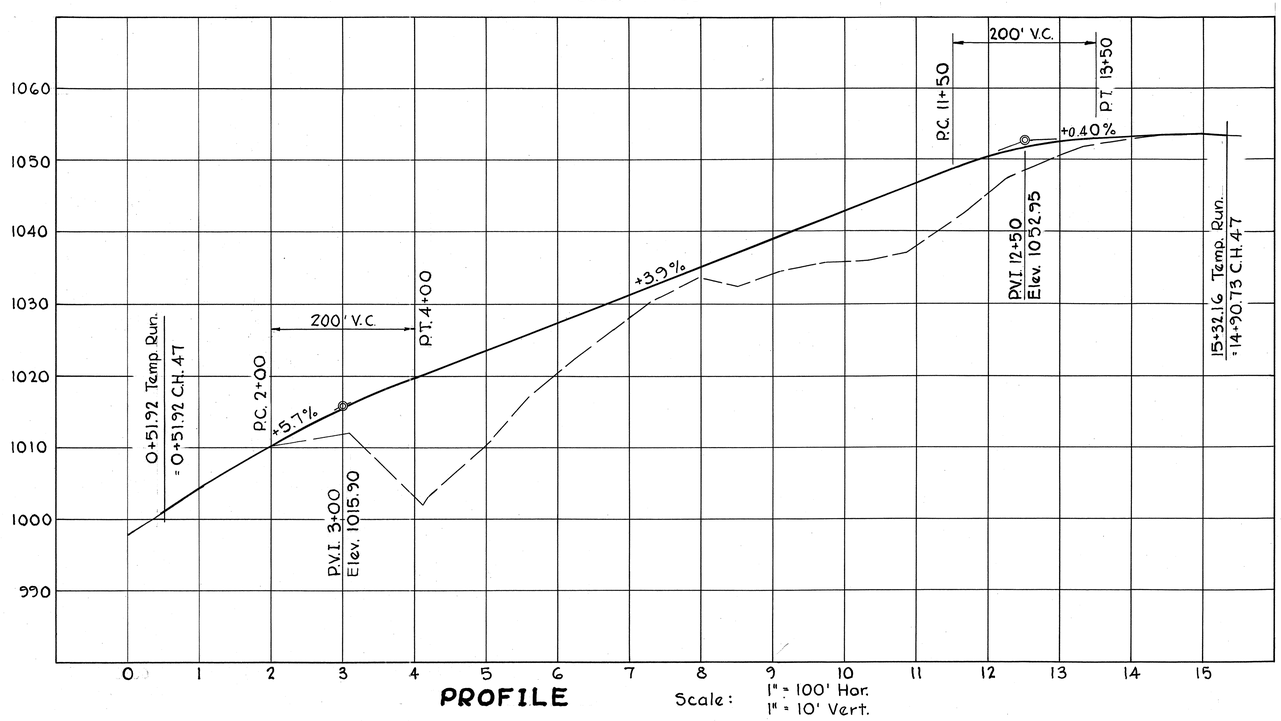
PLAN
Scale: 1" = 100'



⑧ Class "B" Pavement (Item S-15).

TYPICAL SECTION TEMPORARY RUNAROUND
Scale: 1/8" = 1'-0"

ESTIMATED QUANTITIES
Item S-15 Temporary Runaround Road using Class "B" Pavement as per plan····· Lump Sum.



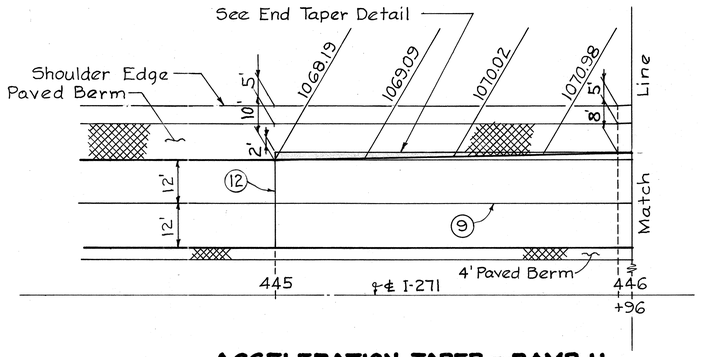
PROFILE
Scale: 1" = 100' Hor.
1" = 10' Vert.

Note:
Provide ditches as required to permit normal drainage. Payment for Construction, maintenance and subsequent removal of temporary drainage structures and guard rail, where required, is included in the Lump Sum bid for Item S-15, Temporary Runaround Road.

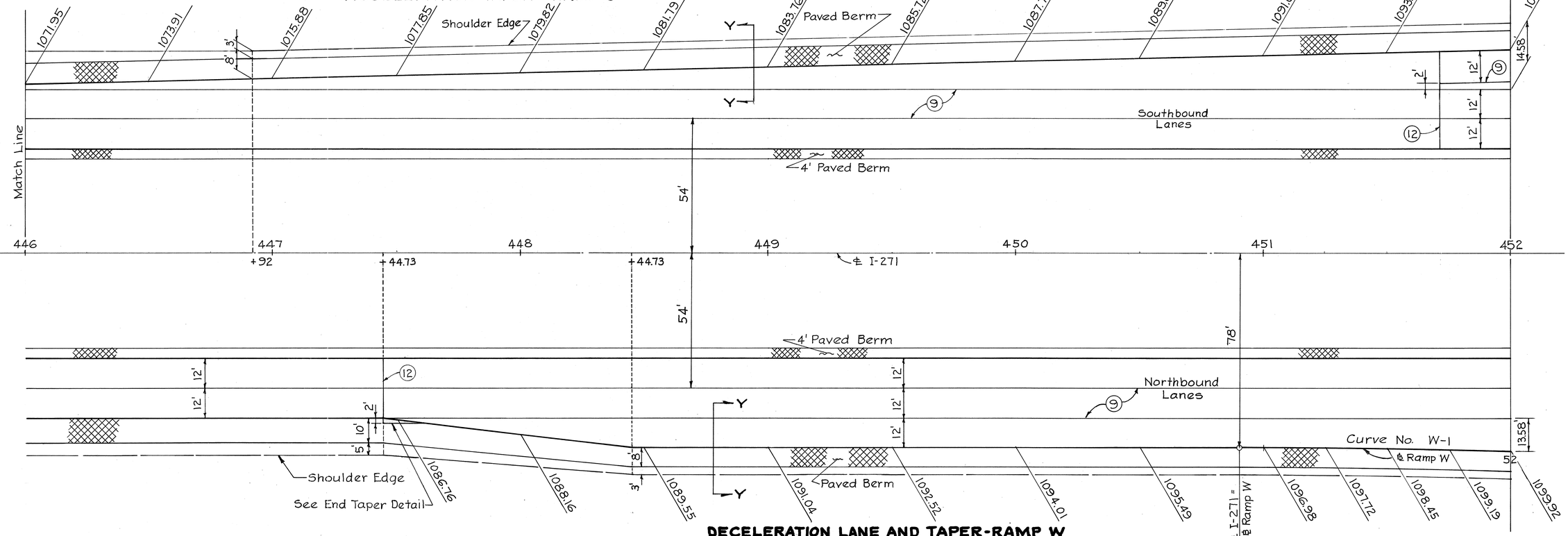
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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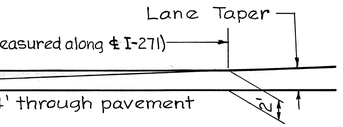
SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00



ACCELERATION TAPER – RAMP U

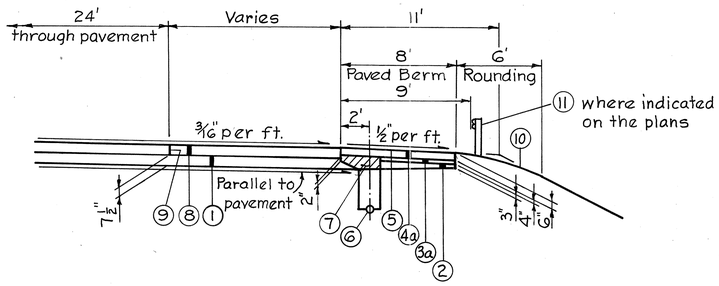


DECELERATION LANE AND TAPER-RAMP W



END TAPER DETAIL

The shaded area shall be constructed of concrete pavement to an elevation one half inch lower than the adjacent pavement and surfaced with T-31, using No.6 Aggregate as the maximum size. The shaded area shall be paid for as full depth T-71 and the surface treatment as T-31.



SECTION Y

No Scale

LEGEND

(1) Item I-22 Subbase, Grading A or B, as per plan (see general note).
(2) Item I-22 Subbase, Regular Grading.
(3a) Item B-19 4" Aggregate Base Course.
(4a) Item B-21 6" Waterproofed Aggregate Base Course (See note in Proposal). Place in two 3" courses. Thickness shown is design thickness as described in Sec. B-21.01
(5) Item T-31 Bituminous Surface Treatment using 0.008 cu. yd. No.6 aggregate per sq.yd. and 0.25 gal. bituminous material per sq.yd. (See note in proposal).
(6) Item I-1 6" Pipe, Class I-3.
(7) Item Special Drainage connection, using No.6 aggregate. (See note in proposal).
(8) Item T-71 10" Reinforced Portland Cement Concrete Pavement
(9) Standard Longitudinal Joint.
(10) Item L-9 Seeding and Protecting as per General Note.
(11) Item I-15 Guard Rail, Steel Beam, Standard Type. (Deep)
(12) Standard Expansion Joint.

Curve W-1
Δ = 10°-04'-48"
D = 1°-30'-00"
R = 3,819.72'
L = 672.00'
T = 336.87'
E = 14.83'

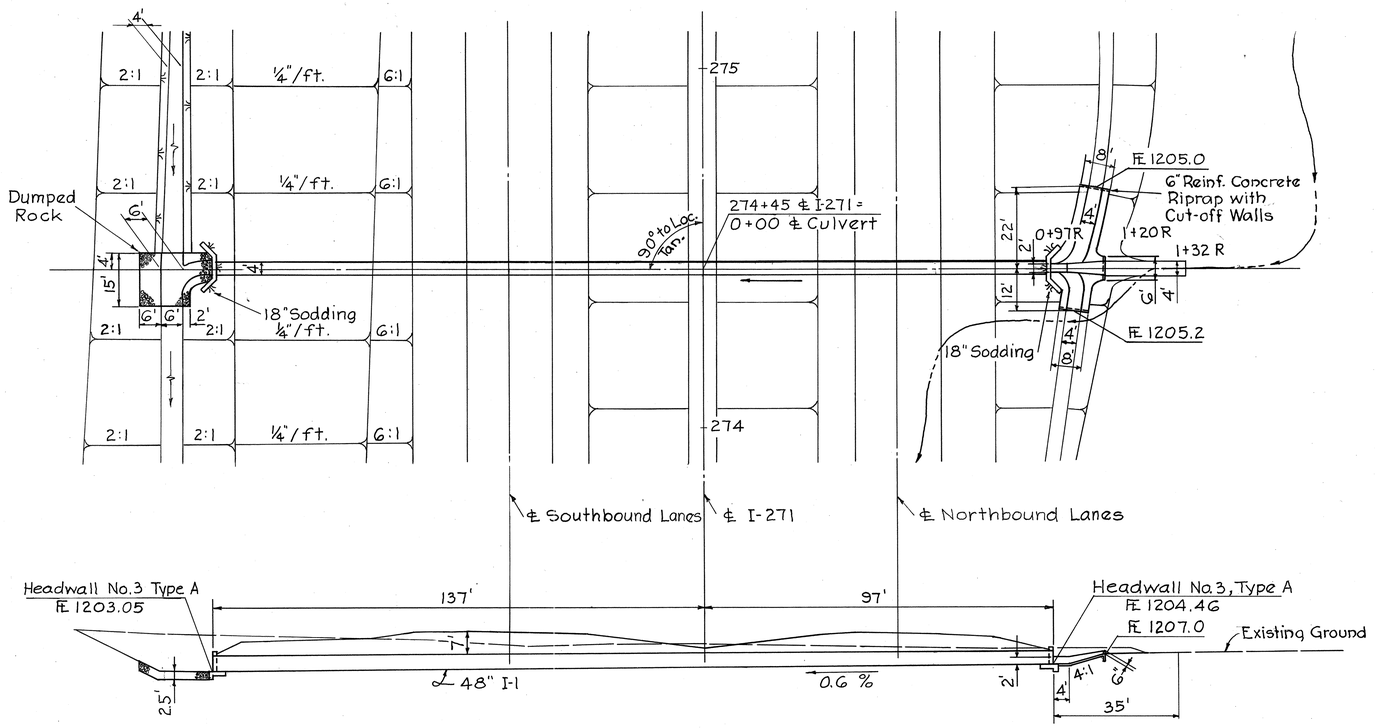
Notes:
For Sequence of Operations note see Sheet No. 4.

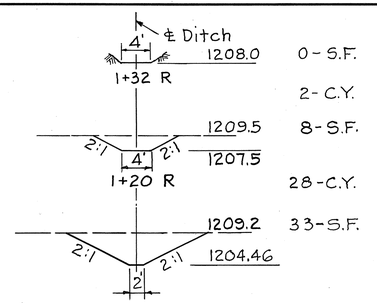
ROADSIDE REST AREA-LANE TAPER DETAILS

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CROSS SECTIONS
Scale: 1"= 10'

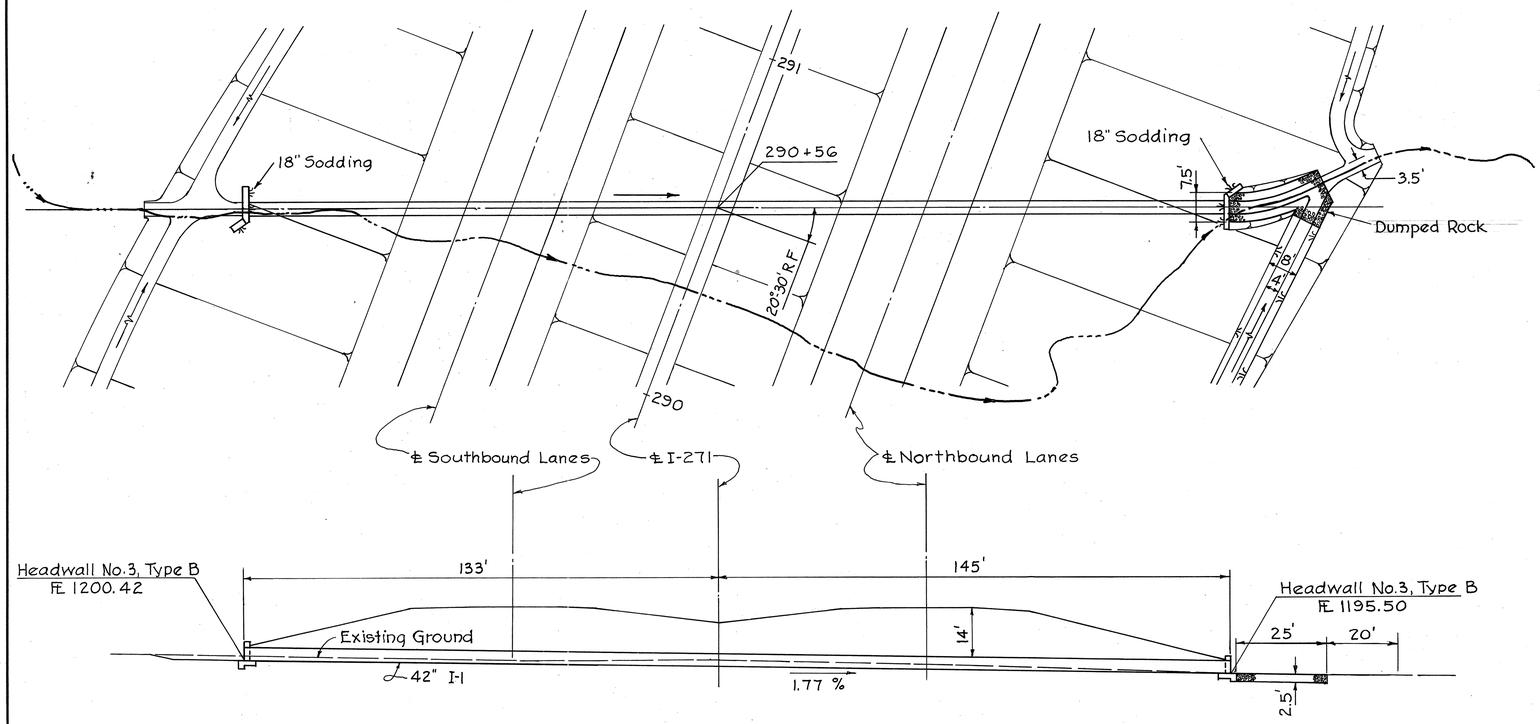
0 - S.F.			
2 - C.Y.			
8 - S.F.			
28 - C.Y.			
33 - S.F.			

ESTIMATED QUANTITIES

I-1	48" Class A-1 Pipe, Sec. M-6.6(a)	234	L.F.
I-2	Masonry	16.4	C.Y.
I-10	Dumped Rock Channel Protection	25	C.Y.
I-10	6" Reinforced Concrete Riprap	41	S.Y.
L-10	Sodding	8	S.Y.
E-3	Channel Excavation	30	C.Y.

Area	36 Ac.
Q_{50}	96.7 c.f.s.

Culvert No. MED - 271 - 4.55
Scale: 1"= 20'



ESTIMATED QUANTITIES

I-1	42" Class A-1 Pipe, Sec. M-6.4(d) or M-6.6(b)	278	L.F.
I-2	Masonry	14.6	C.Y.
I-10	Dumped Rock Channel Protection	21	C.Y.
L-10	Sodding	7	S.Y.

Area	24.8 Ac.
Q_{50}	77.5 c.f.s.

Culvert No. MED - 271 - 4.88
Scale: 1"= 20'

PIPE CULVERTS STA. 274+45 & STA. 290+56

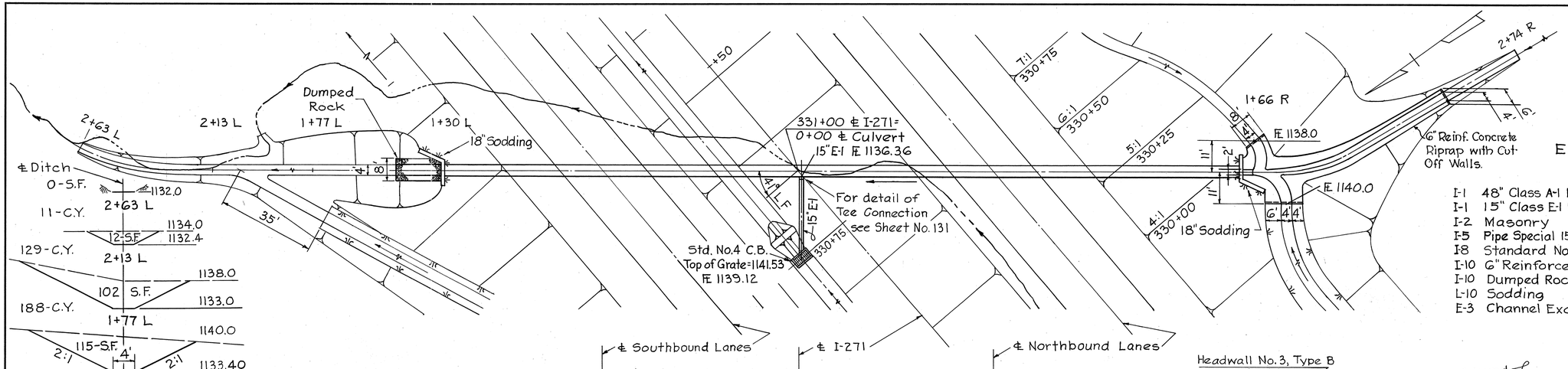
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

ESTIMATED QUANTITIES

I-1	48" Class A-1 Pipe, Sec. M-6.6 (b)	292	L.F.
I-1	15" Class E-1 Pipe	28	L.F.
I-2	Masonry	20.6	C.Y.
I-5	Pipe Special 15" on 48" Tee, Type A, Class A-1, Sec. M-6.6(b)	1	Ea.
I-8	Standard No. 4 Catch Basin	1	Ea.
I-10	6" Reinforced Concrete Riprap	98	S.Y.
I-10	Dumped Rock Channel Protection	11	C.Y.
L-10	Sodding	9	S.Y.
E-3	Channel Excavation	1418	C.Y.



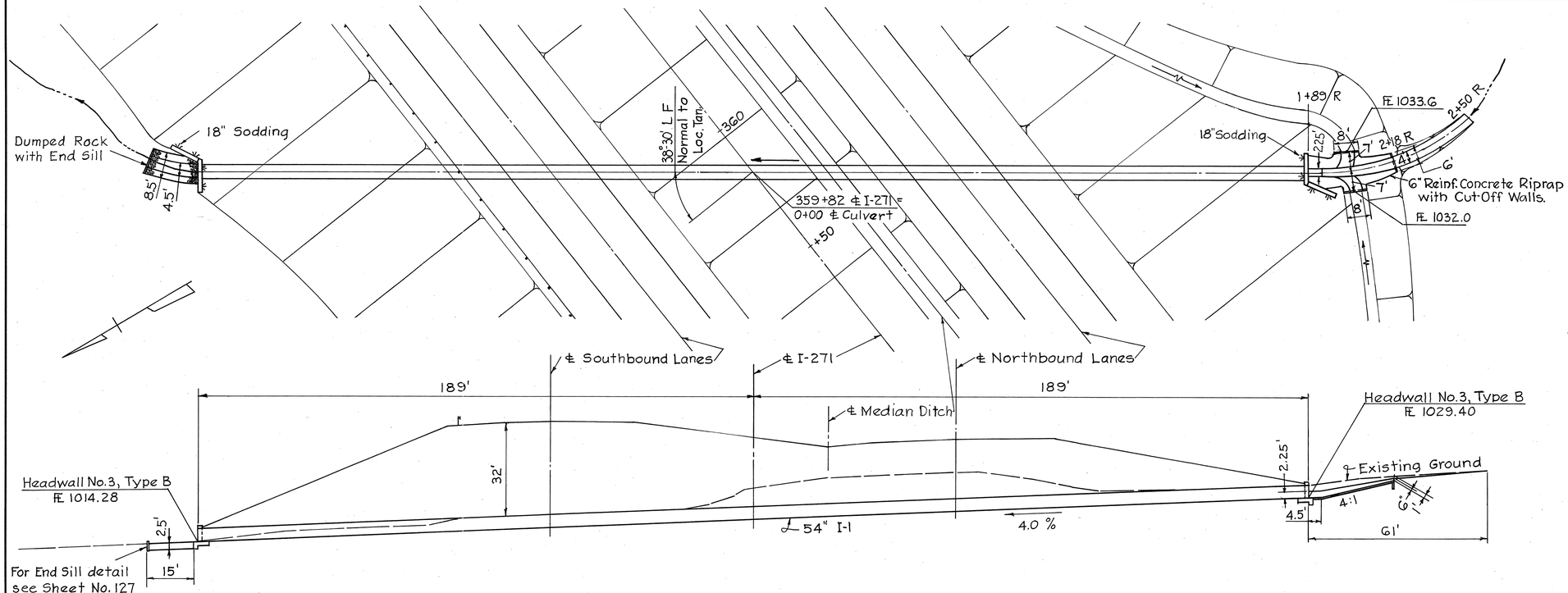
CROSS SECTIONS
Scale: 1"=10'

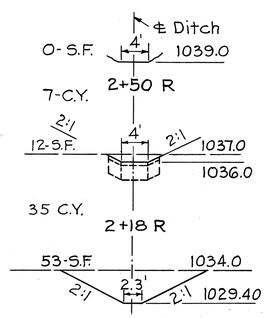
Area	51 Ac
Q50	121 c.f.s.

Culvert No. MED-271-5.65
Scale: 1"=20'

ESTIMATED QUANTITIES

I-1	54" Class A-1 Pipe, Sec. M-6.4 (d), 8 Gage, Shop Elongated	378	L.F.
I-2	Masonry	25.2	C.Y.
I-10	6" Reinforced Concrete Riprap	38	S.Y.
I-10	Dumped Rock Channel Protection	12	C.Y.
L-10	Sodding	10	S.Y.
E-3	Channel Excavation	42	C.Y.





CROSS SECTIONS
Scale: 1"=10'

Area	67 Ac.
Q50	150 c.f.s.

Culvert No. MED-271-6.19
Scale: 1"=20'

PIPE CULVERTS STA. 331+00 & STA. 359+82

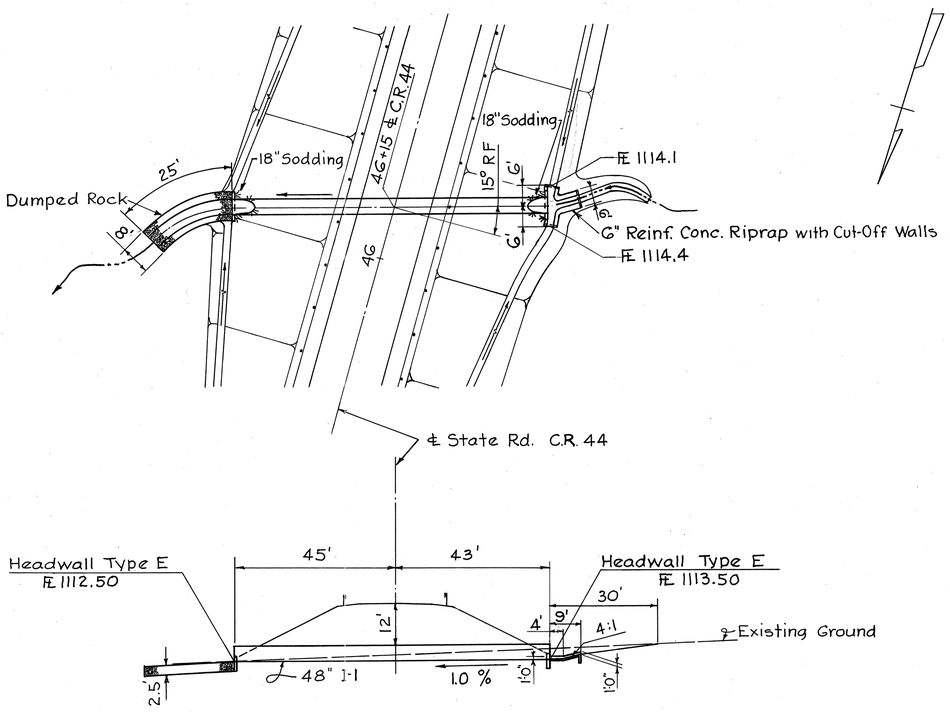
MEDINA COUNTY
SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)2.24	

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ESTIMATED QUANTITIES

I-1	48" Class A-1 Pipe, Sec. M-6.6(b)	88	L.F.
I-2	Masonry	17.2	C.Y.
I-10	Dumped Rock Channel Protection	19	C.Y.
I-10	6" Reinforced Concrete Riprap	7	S.Y.
L-10	Sodding	12	S.Y.

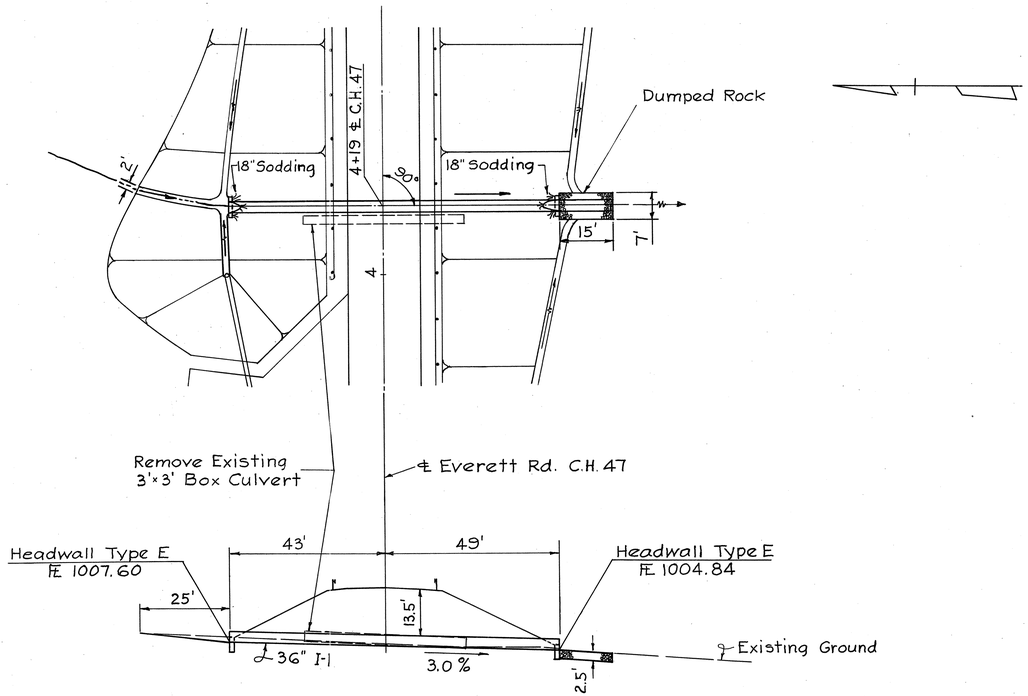


Area	106 Ac.
Q10	120 c.f.s.

PIPE CULVERT AT STA. 46+15 STATE RD. C.R. 44
Scale: 1"= 20'

ESTIMATED QUANTITIES

I-1	36" Class A-1 Pipe, Sec. M-6.6(b) or M-6.4(d)	92	L.F.
I-2	Masonry	1.2	C.Y.
I-10	Dumped Rock Channel Protection	10	C.Y.
L-10	Sodding	8	S.Y.
S-24	Removal of Existing Structure		L.S.



Area	28 Ac.
Q10	51 c.f.s.

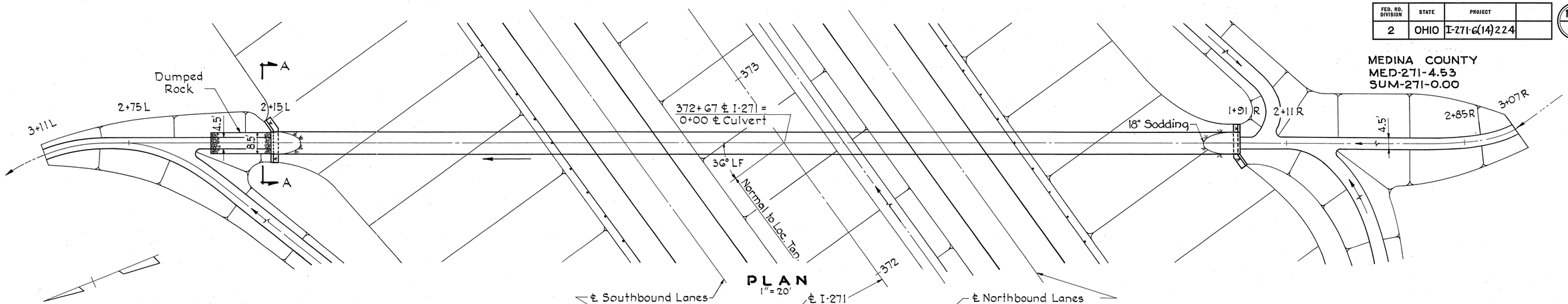
PIPE CULVERT AT STA. 4+19 EVERETT RD.-C.H. 47
Scale: 1"=20'

PIPE CULVERTS STA. 46+15-C.R.44 & STA. 4+19-C.H.47

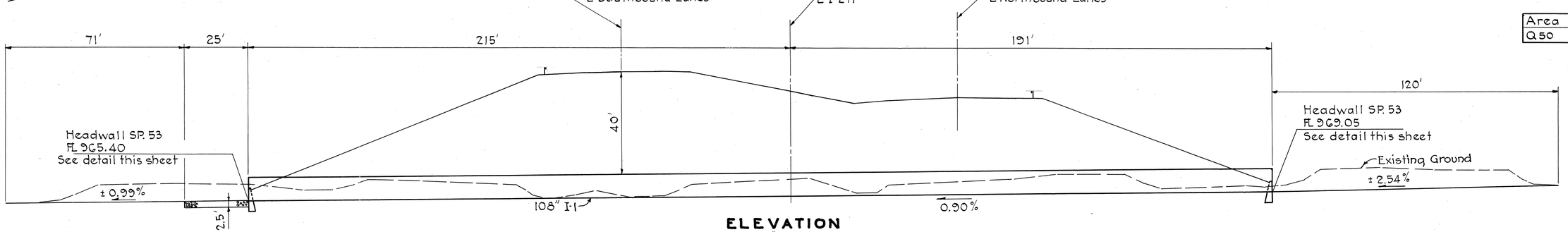
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

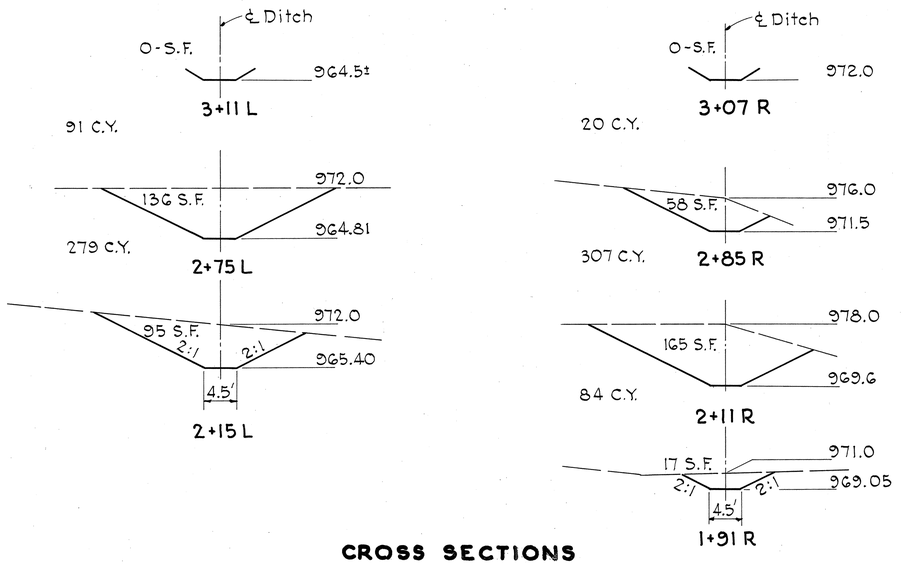


PLAN
1" = 20'

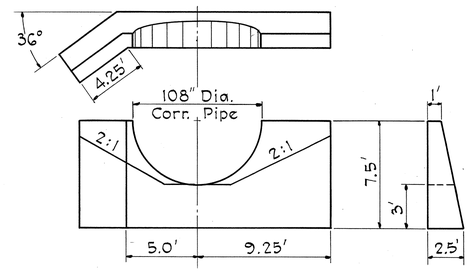


ELEVATION
1" = 20'

Area	1180 Ac.
Q 50	640 c.f.s.



CROSS SECTIONS
1" = 10'



ELEVATION A-A
HEADWALL SP 53
1" = 5'

ESTIMATED QUANTITIES

I-1	108" Class A-1 Pipe, Sec. M-6.4(g) Ga. 5-3	406 L.F.
I-2	Masonry	14.4 C.Y.
I-10	Dumped Rock Channel Protection	20 C.Y.
L-10	Sodding	9 S.Y.
E-3	Channel Excavation	781 C.Y.

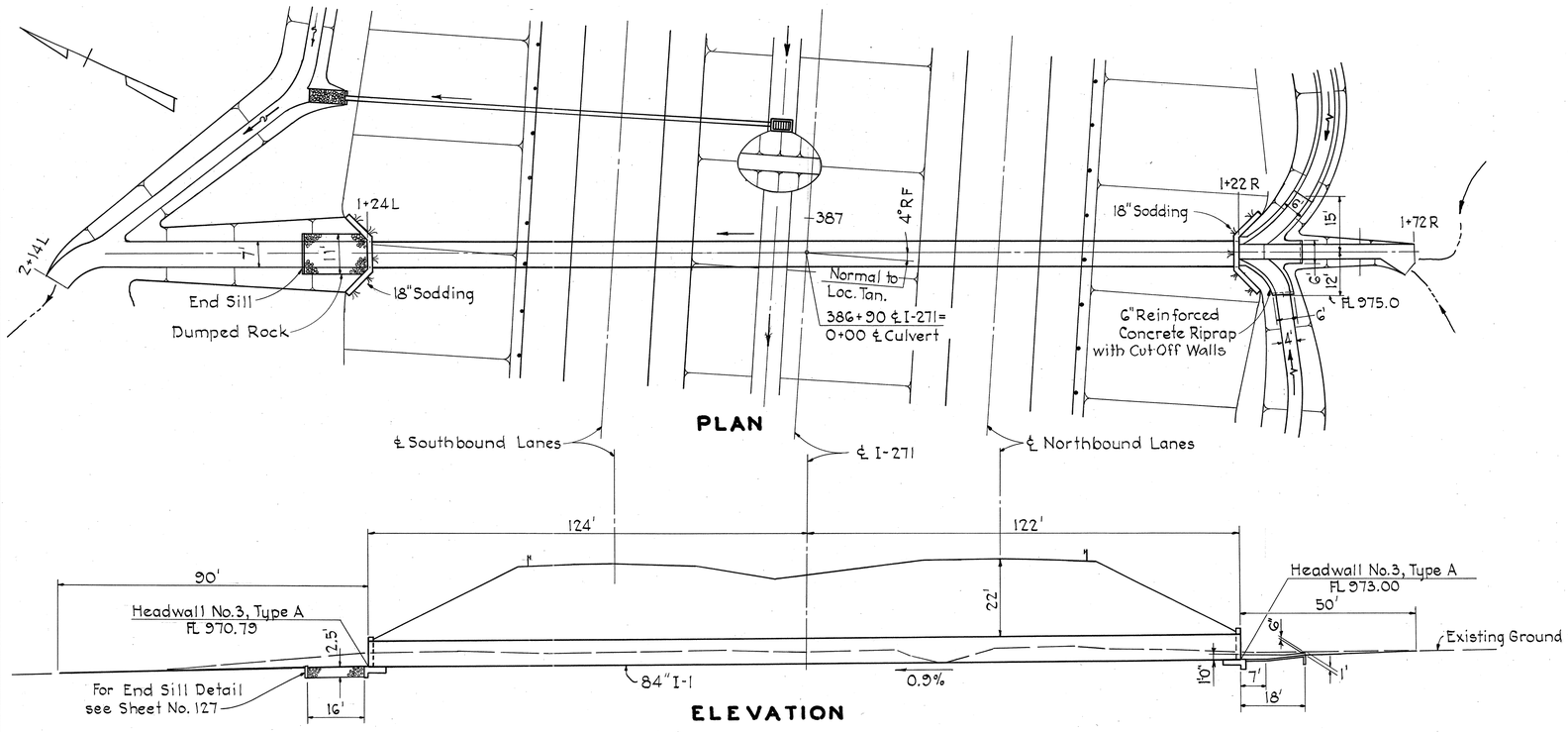
Culvert No. MED-271-6.44

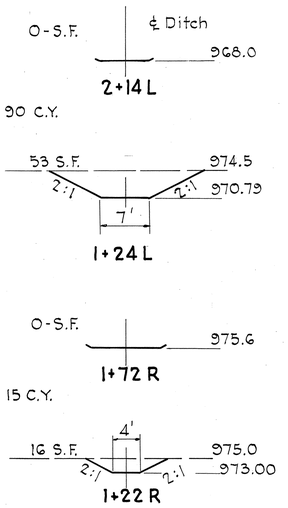
PIPE CULVERT AT STA. 372+67

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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MEDINA COUNTY
MED-271-4.53
SUM-271-0.00





CROSS SECTIONS
1" = 10'

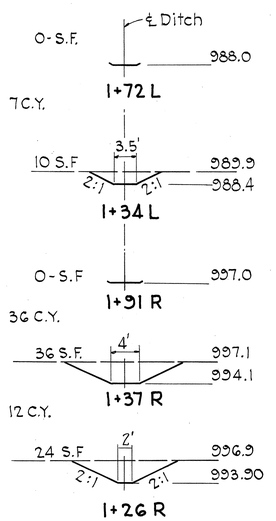
ESTIMATED QUANTITIES

I-1	84" Class A-1 Pipe, Sec. M-106.6(d)	246	L.F
I-2	Masonry	47.4	C.Y.
I-10	Dumped Rock Channel Protection	16	C.Y
L-10	Sodding	12	S.Y.
E-3	Channel Excavation	105	C.Y.
I-10	6" Reinf. Conc. Riprap	27	S.Y.

Area	280 Ac.
Q50	387 c.f.s.

CULVERT NO. MED-271-6.71
1" = 20'





CROSS SECTIONS
1" = 10'.

ESTIMATED QUANTITIES

I-1	42" Class A-1 Pipe, Sec. M-6.6(b) or M-6.4(d)	260	L.F.
I-2	Masonry	14	C.Y.
I-10	Dumped Rock Channel Protection	11	C.Y.
L-10	Sodding	7	S.Y.
E-3	Channel Excavation	55	C.Y.

Area	78 Ac.
Q50	845 c.f.s.

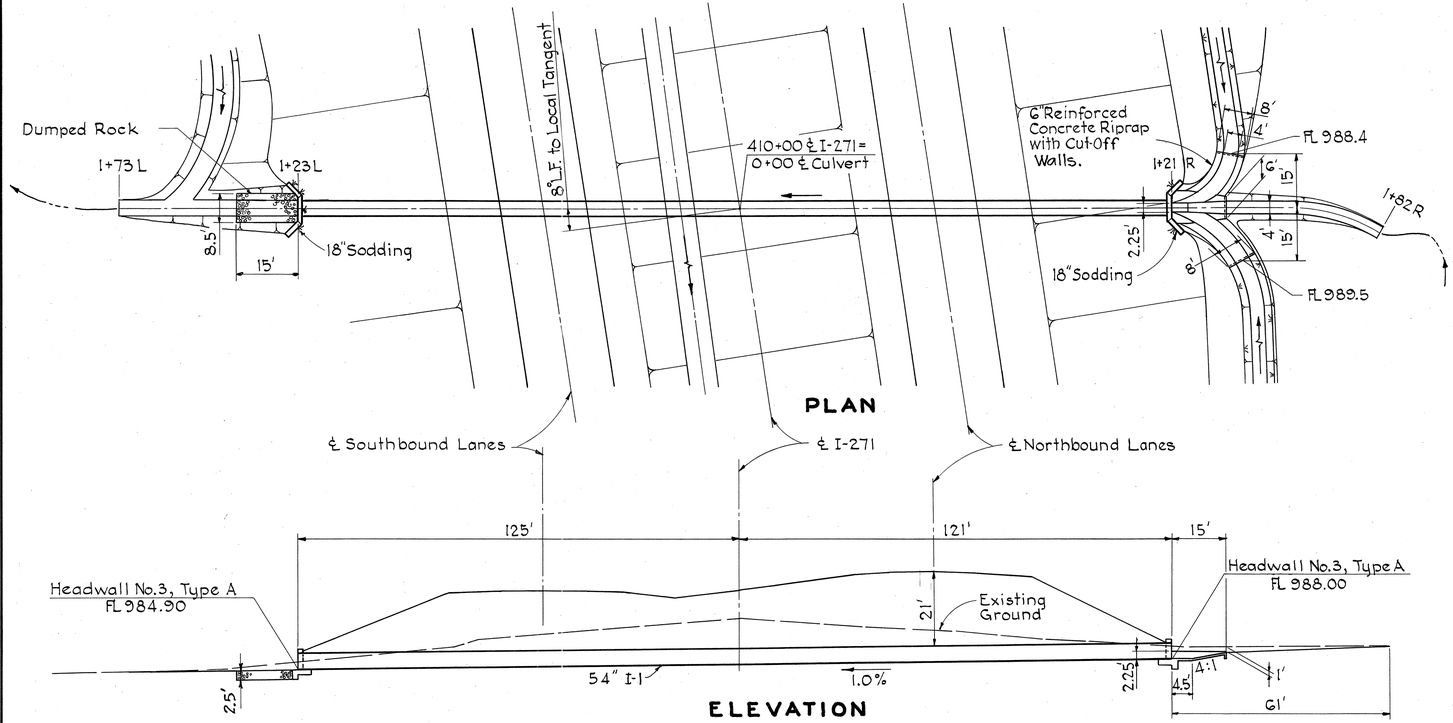
CULVERT NO. MED-271-7.02
1" = 20'

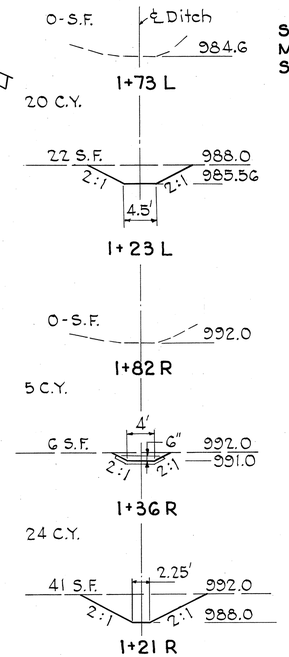
PIPE CULVERTS AT STA. 386+90 & 403+23

FED. RD. DIVISION	STATE	PROJECT	
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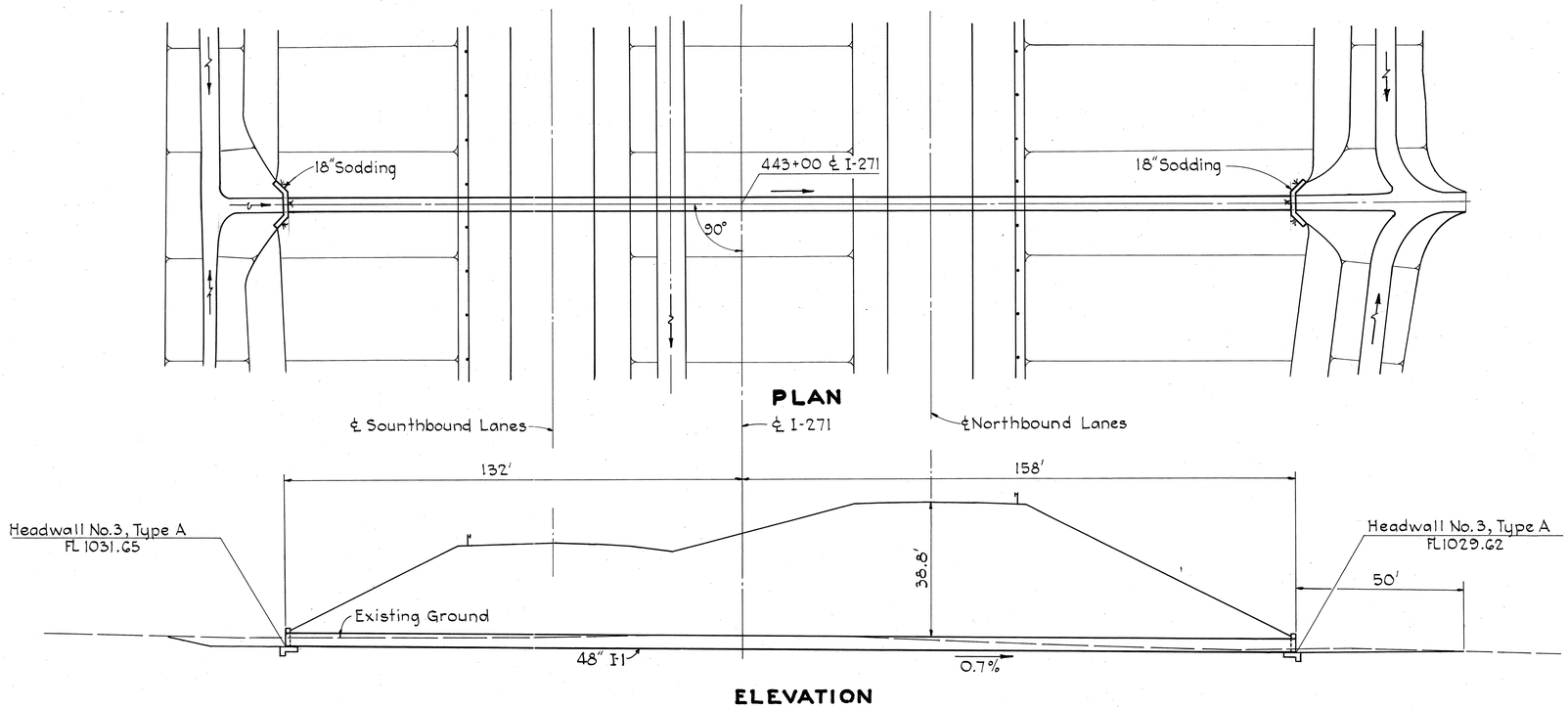
CROSS SECTIONS
1"= 10'

ESTIMATED QUANTITIES

I-1	54" Class A-1 Pipe Sec. M-6.6(d) or Sec. M-6.4(d) 8 Ga.	246 L.F.
I-2	Masonry	20.0 C.Y.
I-10	Dumped Rock Channel Protection	12 C.Y.
I-10	6"Reinforced Concrete Riprap	42 S.Y.
E-3	Channel Excavation	38 C.Y.
L-10	Sodding	9 S.Y.

Area	80 Ac.
Q50	140 c.f.s.

Culvert No. SUM-271-0.02
1"= 20'.



ESTIMATED QUANTITIES

I-1	48"Class A-1 Pipe, Sec. M-6.4 (d), 8 Ga., *Shop Elongated*	290 L.F.
I-2	Masonry	17 C.Y.
L-10	Sodding	8 S.Y.

Area	34 Ac.
Q50	80 c.f.s.

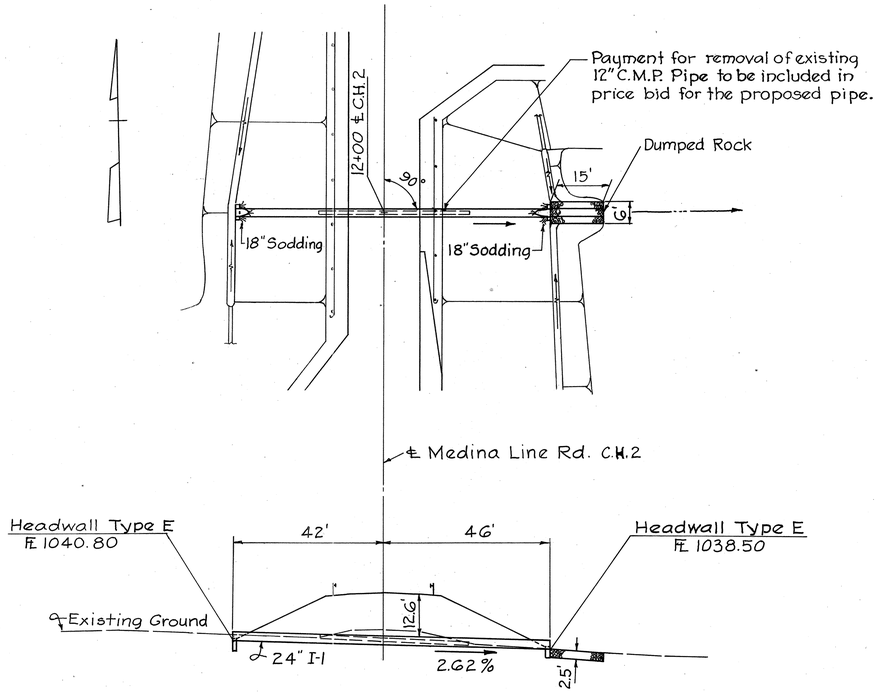
Culvert No. SUM-271-0.65
1"= 20'.

PIPE CULVERTS AT STA. 410+00 & 443+00

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SUM-271-0.00

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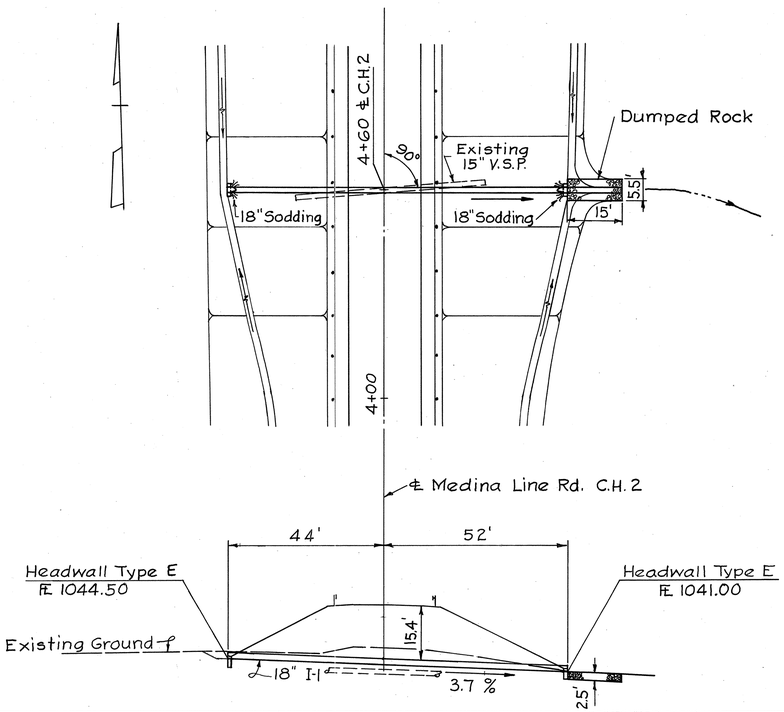


ESTIMATED QUANTITIES

I-1	24" Class A-1 Pipe, Sec. M-6.6(b) or M.8.8(b)	88	L.F.
I-2	Masonry	0.8	C.Y.
I-10	Dumped Rock Channel Protection	8	C.Y.
L-10	Sodding	6	S.Y.

Area	8 Ac.
Q10	23 c.f.s.

PIPE CULVERT AT STA. 12+00 MEDINA LINE RD. CH. 2
Scale: 1"= 20'



ESTIMATED QUANTITIES

I-1	18" Class A-1 Pipe, Sec. M-6.6(c)	96	L.F.
I-2	Masonry	0.6	C.Y.
I-10	Dumped Rock Channel Protection	8	C.Y.
L-10	Sodding	5	S.Y.
E-12	Pipe Removal 15" & Under	53	L.F.

Area	4 Ac.
Q10	14 c.f.s.

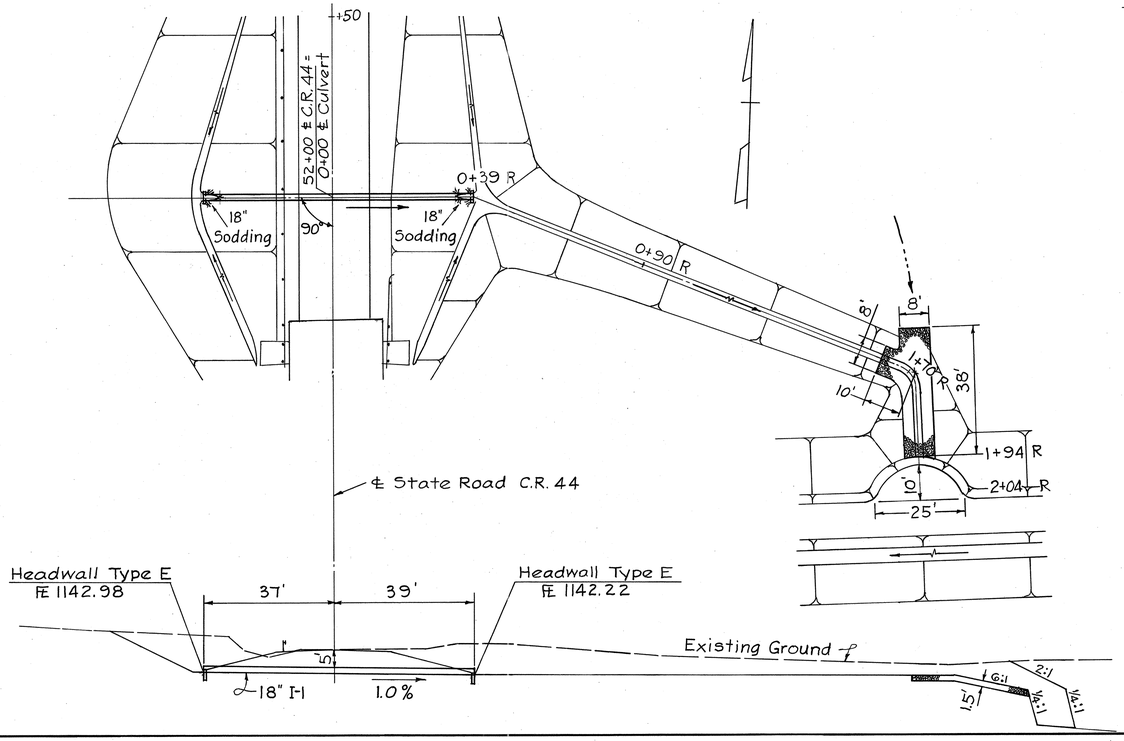
PIPE CULVERT AT STA. 4+60 MEDINA LINE RD. C.H. 2
Scale: 1"= 20'

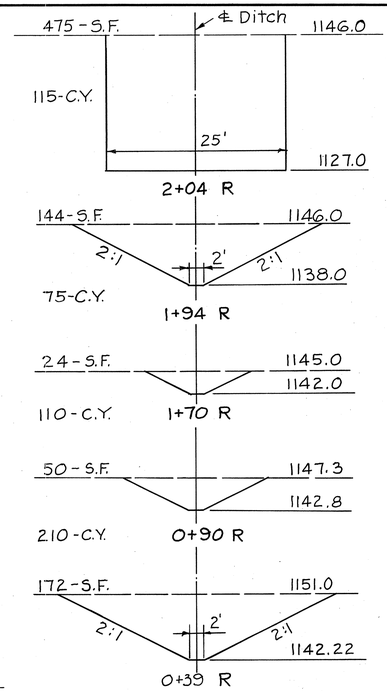
PIPE CULVERTS STA. 12+00 & 4+60 MEDINA LINE RD. C.H. 2

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SUM-271-0.00

FED. RD. DIVISION	STATE	PROJECT	
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CROSS SECTIONS
Scale: 1"=10'

ESTIMATED QUANTITIES

I-1	18" Class A-1 Pipe M-6.6(a), M-6.5(b) or M-6.8(b)	76	L.F.
I-2	Masonry	0.6	C.Y.
I-10	Dumped Rock Channel Protection	20	C.Y.
L-10	Sodding	5	S.Y.
E-3	Channel Excavation	510	C.Y.

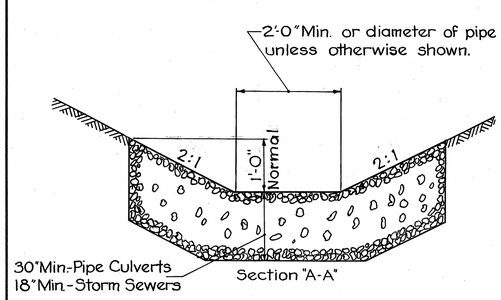
Area	2 Ac.
Q10	8.9 c.f.s.

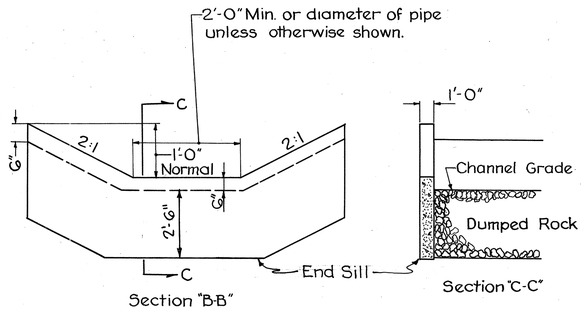
PIPE CULVERT AT STA. 52+00 STATE RD. C.R.44
Scale: 1"=20'

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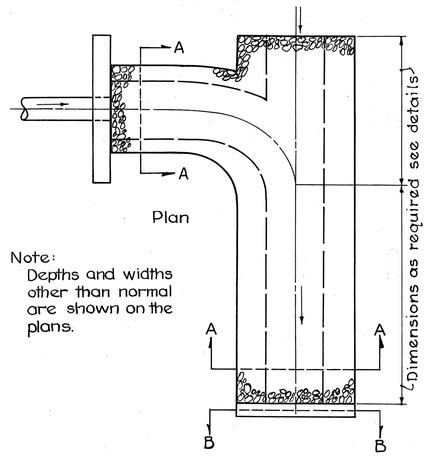
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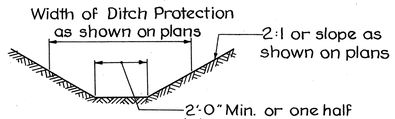


Note: Use End Sill only when shown on the plans.

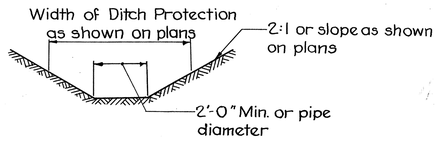


Note:
Depths and widths other than normal are shown on the plans.

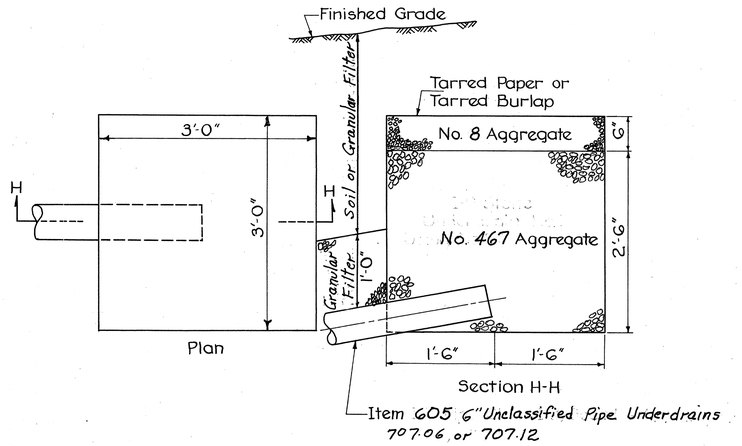
DUMPED ROCK CHANNEL PROTECTION



ENTRANCE DITCH

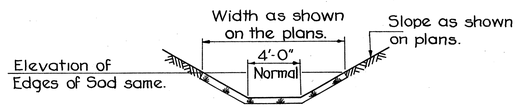


OUTLET DITCH

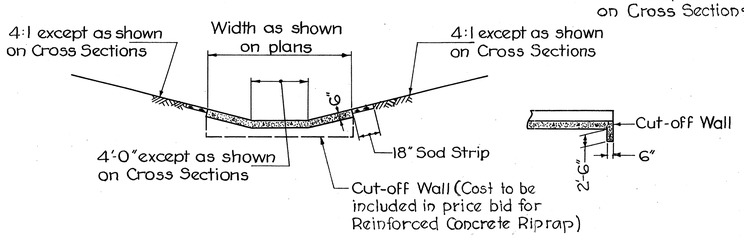


Note:
No. 467 Aggregate shall be used with a 6" layer of No. 8 Aggregate over the top and sealed with Tarred Paper or Tarred Burlap.
Aggregates, Tarred Paper, or Tarred Burlap, and necessary Excavation for Spring Drains shall be paid for at Unit Price Bid Per Linear Ft. of Item 605, Aggregate for Spring Drains, as per plan. Spring Drains are to be placed at locations designated by the Engineer.
Estimated Quantities of 605 Aggregate for Spring Drains, and of 6" 605 Pipe Underdrains are carried in the General Notes (Sheet No. 7) for draining springs. This item shall be non-performed in the event that none are encountered and payment is to be made on final measurement.
A Spring Drain constitutes 3 linear feet.

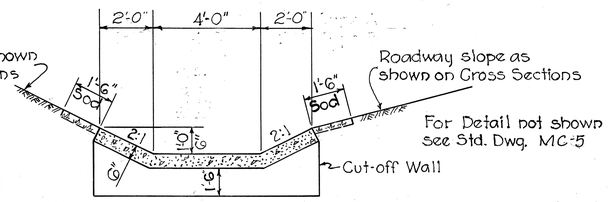
DETAIL SECTION SPRING DRAIN



SPECIAL SOD DITCH



DITCH PAVING USING REINFORCED CONCRETE RIPRAP



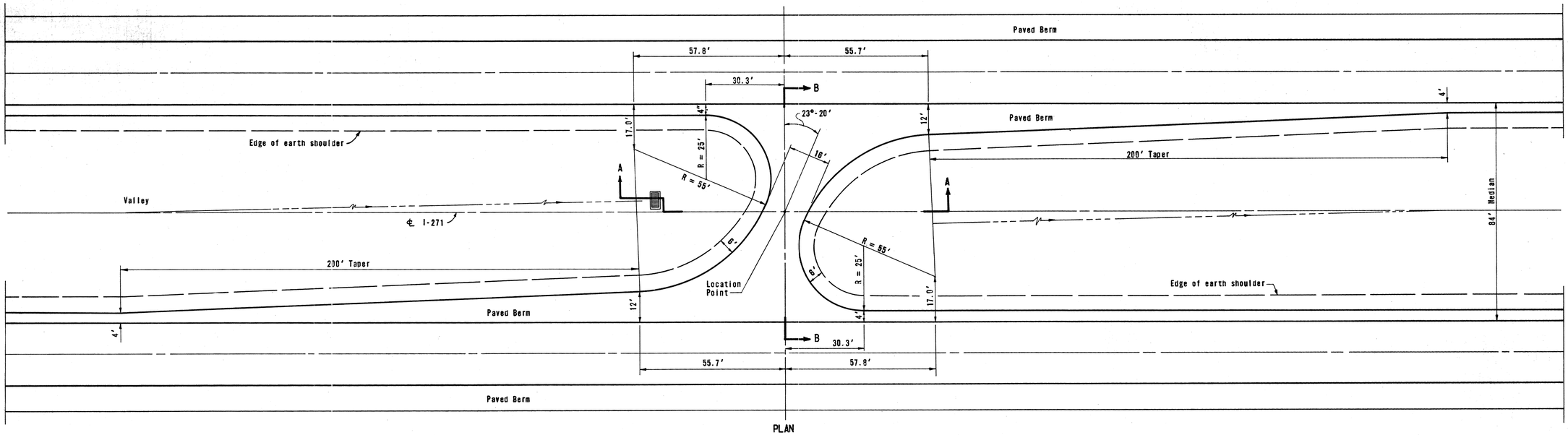
DETAIL MODIFIED STANDARD TYPE 1-4 PAVED GUTTER

STANDARD U-TURN MEDIAN OPENINGS

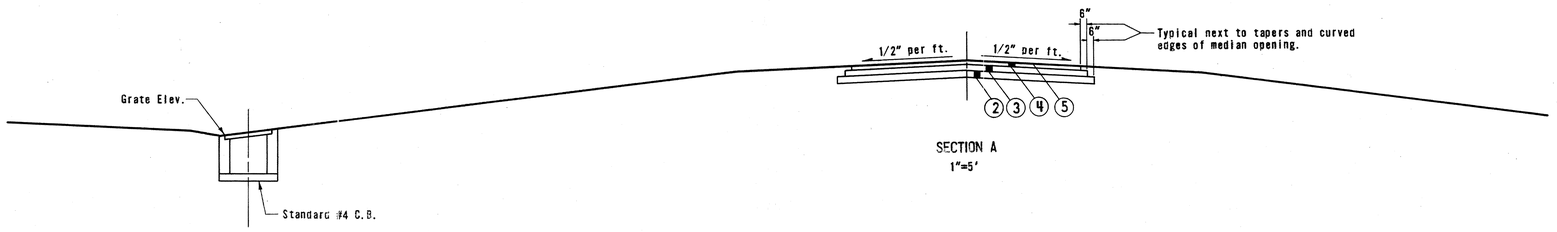
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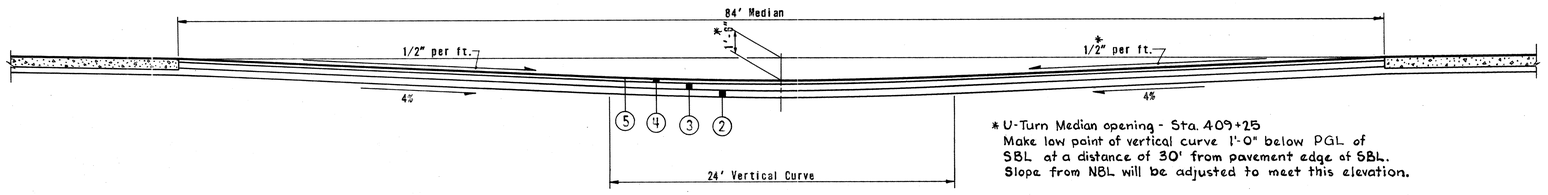
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PLAN
1"=20'



SECTION A
1"=5'



SECTION B
1"=5'

* U-Turn Median opening - Sta. 409+25
Make low point of vertical curve 1'-0" below PGL of SBL at a distance of 30' from pavement edge of SBL.
Slope from NBL will be adjusted to meet this elevation.

LEGEND

② Item 1-22-3" Subbase, Regular Grading.
③ Item B-19-7" Aggr. Base Course as per plan.
④ Item B-21-*3" Waterproofed Aggregate Base Course *(See note in Proposal)*

⑤ Item T-31-Bituminous Surface Treatment using 0.008 Cu.Yd. No. 8 aggregate per Sq.Yd. and 0.25 Gal. bituminous material per Sq.Yd.(See note in Proposal).

* Thickness shown is design thickness as described in Sec. B-21.01.

Quantities reqd. for one U-Turn Median Opening between the normal 4'-0" paved berms for the through roadways:

Item 1-22	48 C.Y.
Item B-19	106 C.Y.

Item T-31) 508 S.Y. - carry to Calculation
Item B-21) Sheet for conversion to Proposal units.

LOCATION POINT
Sta. 282+40
Sta. 409+25

MISCELLANEOUS DETAILS

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SPECIAL BERM & SLOPE PROTECTION

Prior to placement of sod in the berm and 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 and bottom with stakes spaced at four foot intervals.

Stakes shall be 1"x1"x8" wood stakes and shall be perpendicular to the ground and flush with the top of the sod.

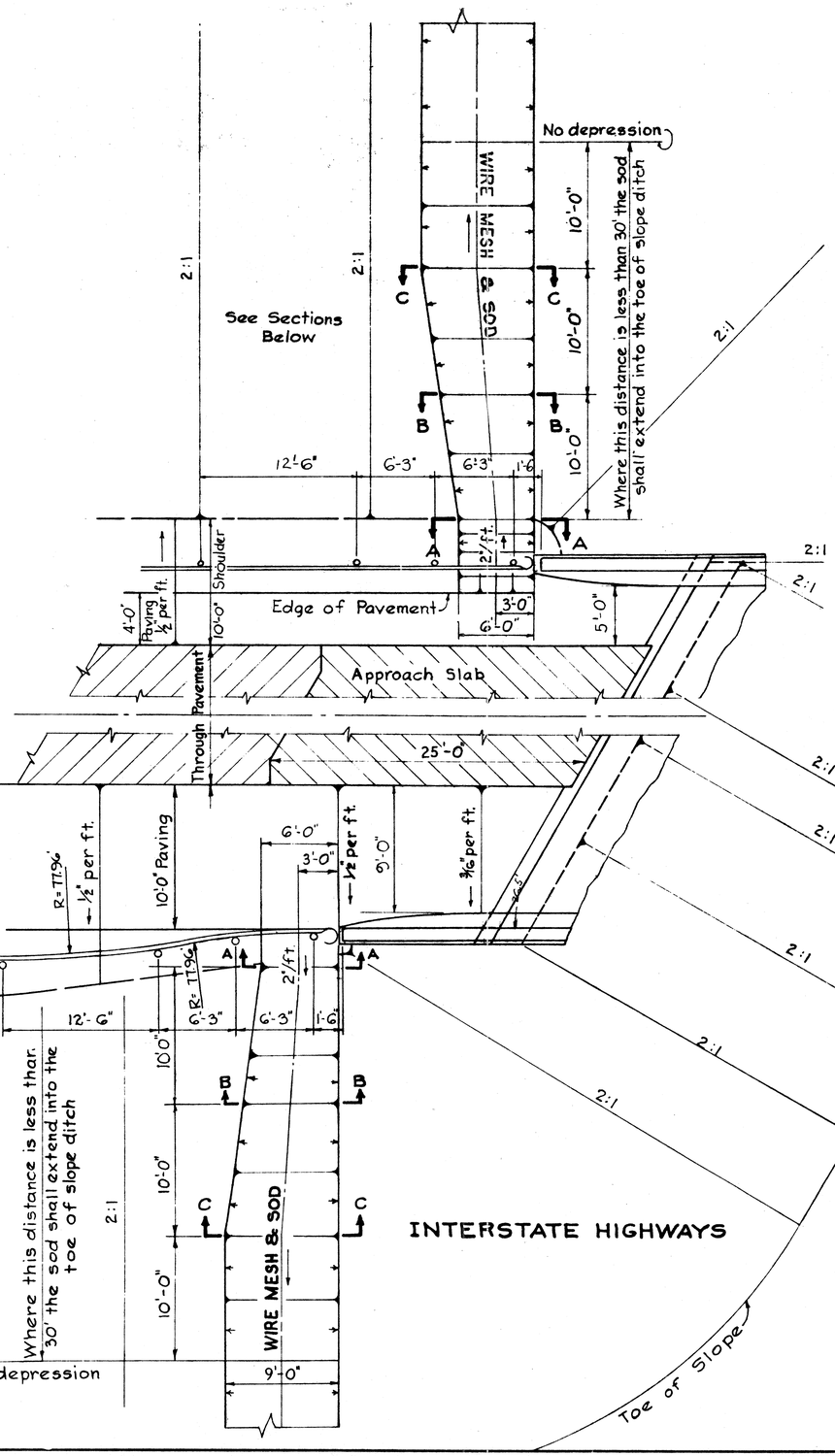
The fence shall be Straight Line Poultry Fence or equivalent with strand width of four feet, having a two inch mesh and all wires No. 20 Gauge.

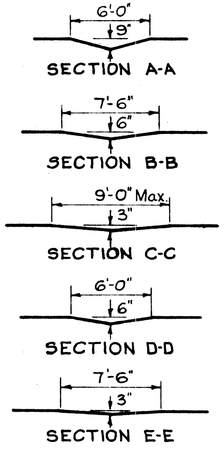
The strands of fencing shall be fastened together at twelve inch intervals by means of hog rings.

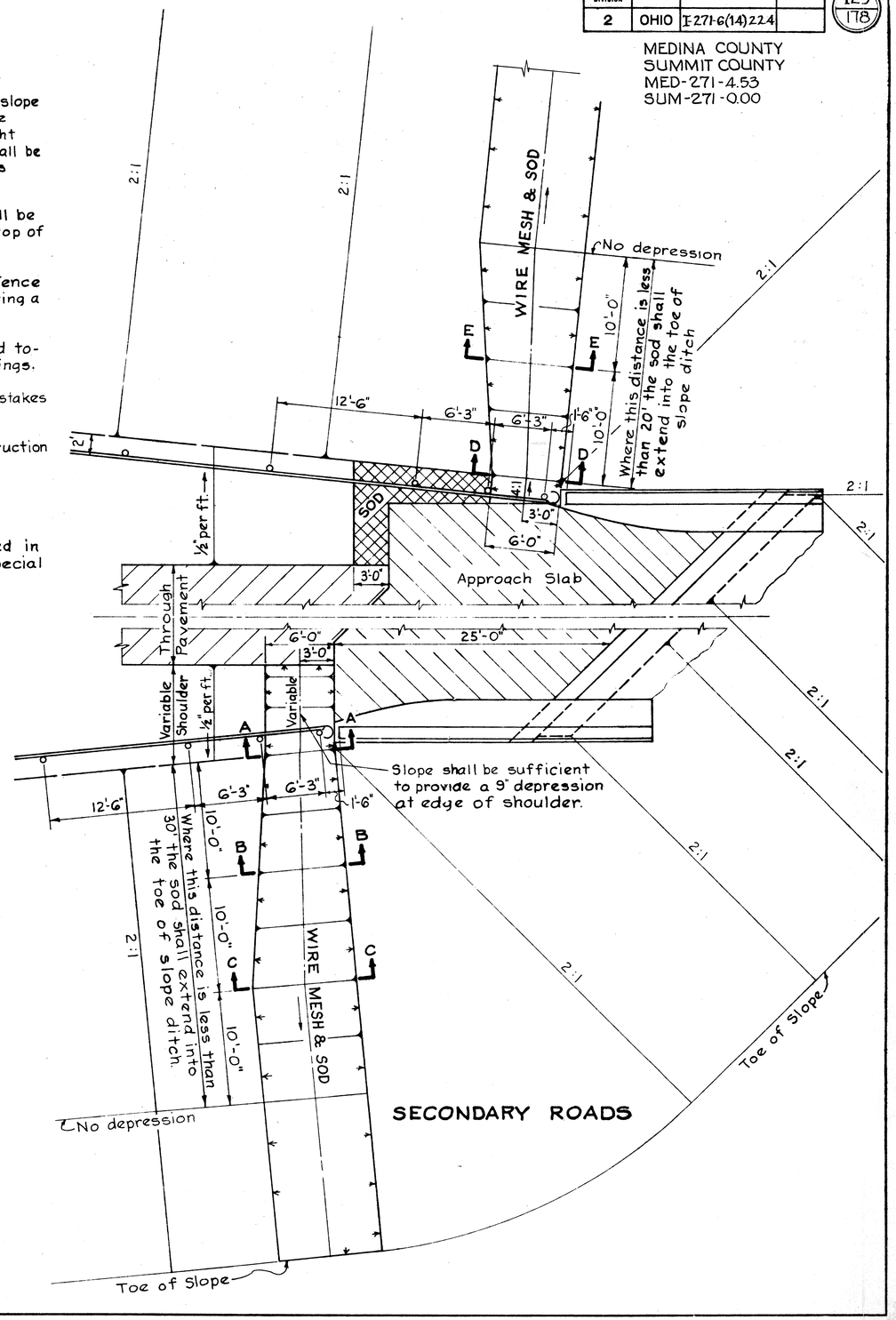
The fence shall be secured to the wood stakes by metal staples.

Sod shall be laid in accordance with Construction and Materials Specifications Section L-10.07.

Payment for all the above shall be included in the unit price bid for Item L-10 Sodding for Special Berm and Slope Protection.







MISCELLANEOUS DETAILS

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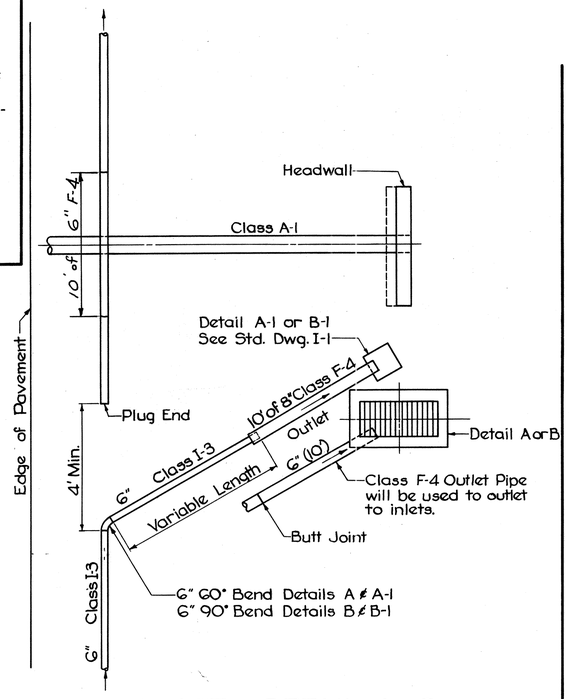
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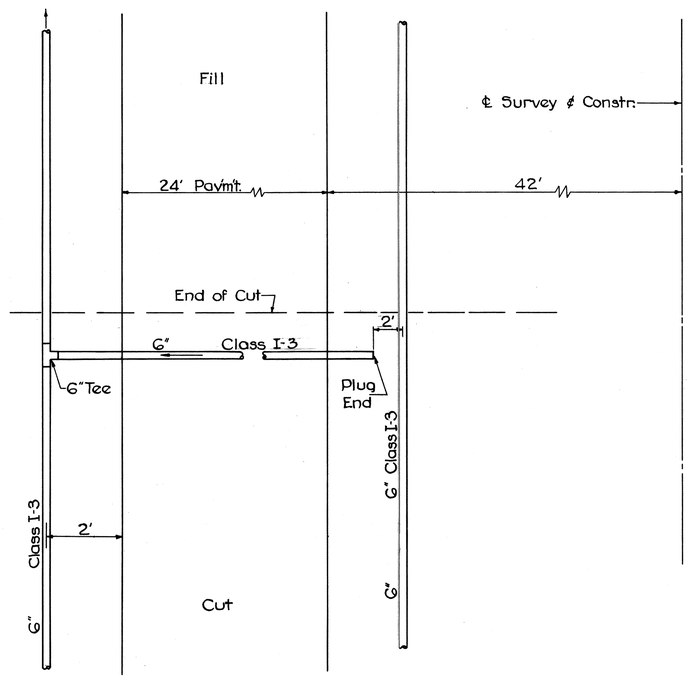
NOTES

The cost of plugging all ends of underdrains shall be included in the unit cost bid for Item I-1 (Class I-3) Pipe Underdrains.

All I-5 Pipe Specials required for Underdrain and Underdrain Outlets shall be of the same quality as the best adjoining pipe.

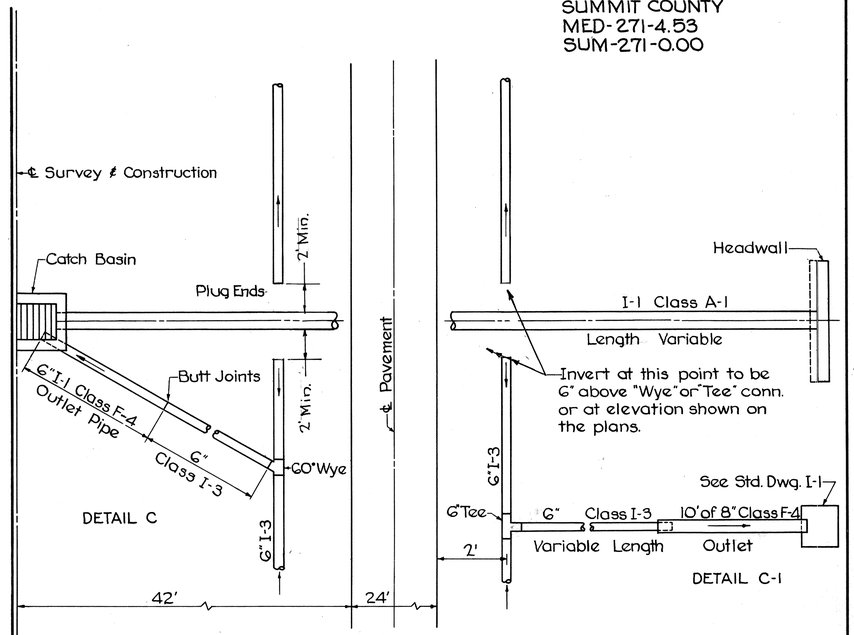


UNDERDRAIN OUTLET DETAIL A & B

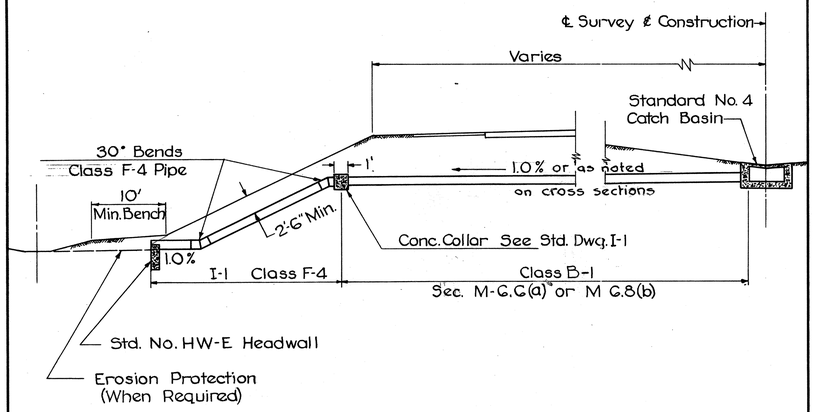


DETAIL E

UNDERDRAIN INTERCEPTOR - IN CUT



UNDERDRAIN OUTLET DETAIL C



NOTE: Concrete collar to be included in bid price for I-1 Pipe.
On 4:1 slopes, carry pipe out to ditch.

MEDIAN OUTLET DETAIL IN HIGH FILL

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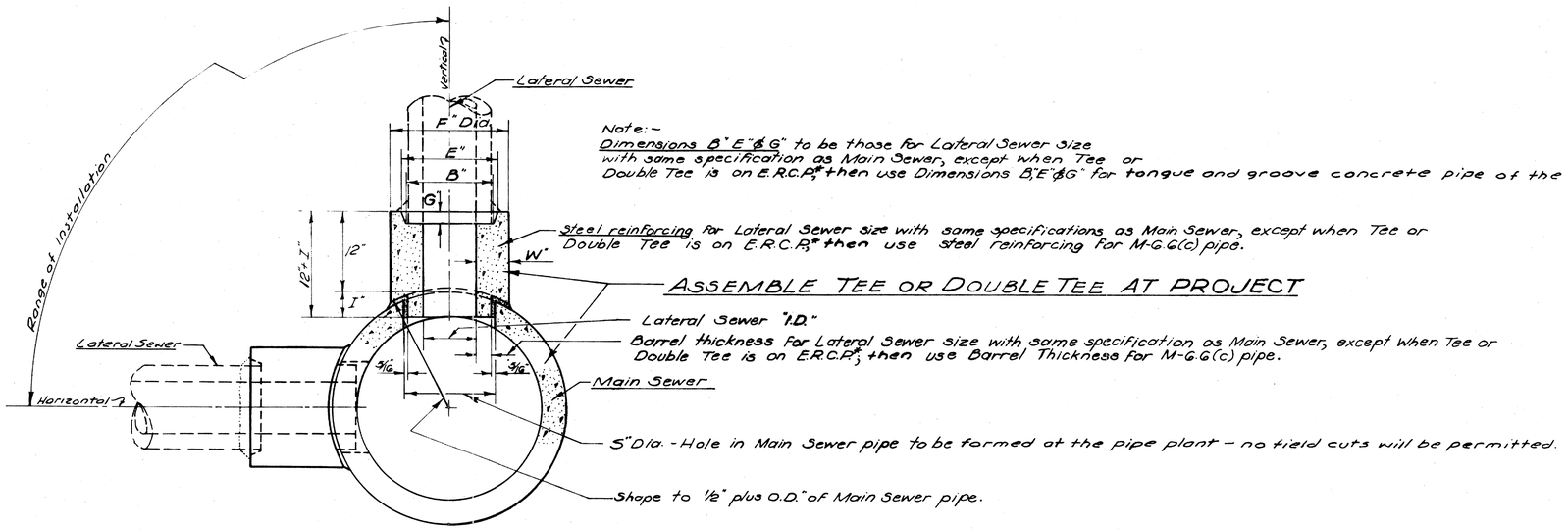
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TABLE OF DIMENSIONS

MAIN SEWER Round	E.R.C.P.* Equiv. Rd.	LATERAL SEWER (ROUND) 6" F	6" I	6" S	6" W	8" F	8" I	8" S	8" W	10" F	10" I	10" S	10" W	12" F	12" I	12" S	12" W	15" F	15" I	15" S	15" W	18" F	18" I	18" S	18" W	21" F	21" I	21" S	21" W	24" F	24" I	24" S	24" W	27" F	27" I	27" S	27" W	30" F	30" I	30" S	30" W	33" F	33" I	33" S	33" W	36" F	36" I	36" S	36" W	Remarks
	18"	13½"	2¾"	10⅛"	3¾"																																																= When used with E.R.C.P.* place at 90° to long axis only
21"			2¾"																																																
24"	24"		3"			15½"	3"	12⅛"	3¾"	17⅛"	3"	14⅛"	3¾"																																								
27"			3"				3"																																													
30"	30"		3⅛"				3⅛"			17⅛"	3⅛"	14⅛"	3¾"					20"	3½"	16⅝"	4"																																	
33"	33"		3½"				3½"				4"								4"																																	
36"	36"		4"				4"				4"								4½"			21½"	4"	20⅛"	4¾"																											
39"	39"		4"				4"				4½"								5"				5"																													
42"	42"		4½"				4½"				5"								5½"			28"	5"	23⅜"	5"																											
48"	48"		5"				5"				5½"								6"				6"			31½"	5½"	27⅛"	5¼"																					
54"	54"		5½"				5½"				6"								6½"				6½"				6½"			36"	6"	30⅛"	6"																	
60"	60"		6"				6"				6½"								7"				7"				7"				7½"			39½"	6½"	34⅛"	6¼"											
66	66"		6½"				6½"				7"								7⅛"				7½"				7½"				8"			39½"	7"	34⅛"	6¼"											
72"	72"		7"				7"				7⅛"								7½"				8"				8"				8½"			39½"	8"	34⅛"	6¼"	43"	8"	37⅝"	6½"							
78"	78"		7½"				7½"				7½"								8"				8½"				8½"				9"				8½"				9"			46½"	8"	41⅛"	6¾"				
84"	84"		8"				8"				8"								8½"				9"				9"								9"				9"			46½"	8½"	41⅛"	6¾"	50"	8½"	44⅝"	7"
90"	90"		8"				8"				8½"								9"																							46½"	9"	41⅛"	6¾"	50"	9"	44⅝"	7"
96"	96"		8½"				8½"				9"																																							
108"	108"		9"				9"				9"																																							
120"	120"	13½"	10"	10⅛"	3¾"	15½"	10"	12⅛"	3¾"	17⅛"	10"	14⅛"	3¾"	20"	10"	16⅝"	4"	21½"	10"	20⅛"	4¾"	28"	10"	23⅜"	5"	31½"	10"	27⅛"	5¼"	36"	10"	30⅛"	6"	39½"	10"	34⅛"	6¼"	43"	10"	37⅝"	6½"	46½"	10"	41⅛"	6¾"	50"	10"	44⅝"	7"

= To be used with E.R.C.P.* and placed at 90° to long axis only.



Note:-
Dimensions B" E" & G" to be those for Lateral Sewer size with same specification as Main Sewer, except when Tee or Double Tee is on E.R.C.P.* then use Dimensions B, E" & G" for tongue and groove concrete pipe of the same size as the Lateral Sewer.

Steel reinforcing for Lateral Sewer size with same specifications as Main Sewer, except when Tee or Double Tee is on E.R.C.P.* then use Steel reinforcing for M-G.G(c) pipe.

ASSEMBLE TEE OR DOUBLE TEE AT PROJECT

Lateral Sewer "I.D."

Barrel thickness for Lateral Sewer size with same specification as Main Sewer, except when Tee or Double Tee is on E.R.C.P.* then use Barrel Thickness for M-G.G(c) pipe.

DETAIL
SHOWING

—" ON —" SADDLE TYPE TEE
—" ON —" SADDLE TYPE DOUBLE TEE
FOR CONCRETE PIPE ONLY

Note:-
Description, Materials, Construction Methods, Method of Measurement and Basis of Payment shall be the same as Item I-5 Pipe Specials, except as shown.

E.R.C.P.* = Elliptical Reinforced Concrete Pipe

ITEM I-5, —" SADDLE TYPE PIPE SPECIAL, AS PER PLAN.

Note:- Vitrified or concrete tees or double tees meeting the requirements of Sec. I-5, which are formed at the pipe plant and delivered as a complete unit, will be accepted as alternates to the concrete saddle type specials.

12-12-62
11-20-62

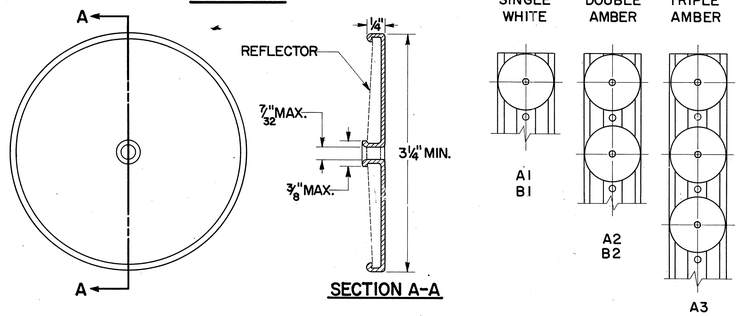
MISCELLANEOUS DETAILS

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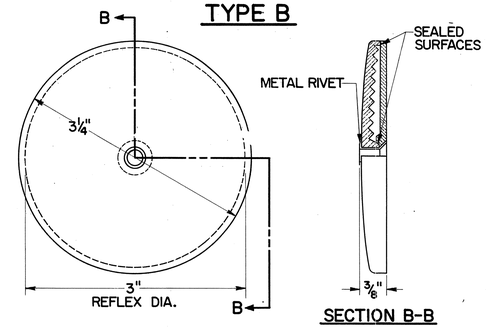
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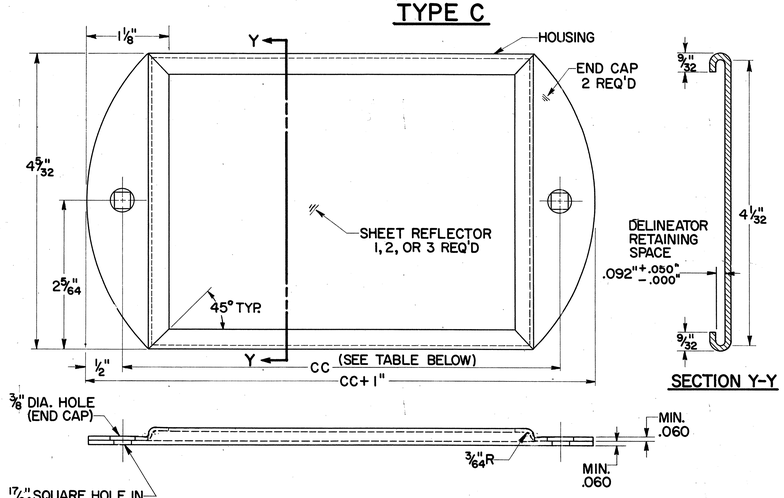
TYPE A



TYPE B

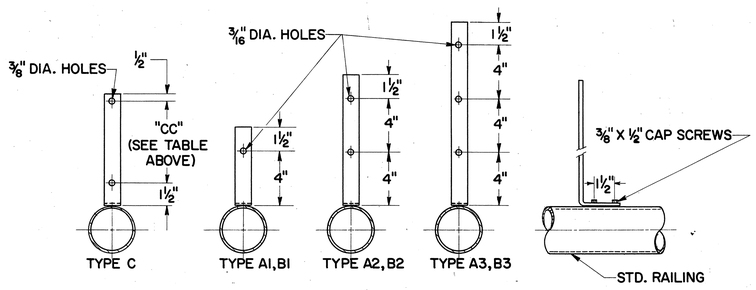


TYPE C

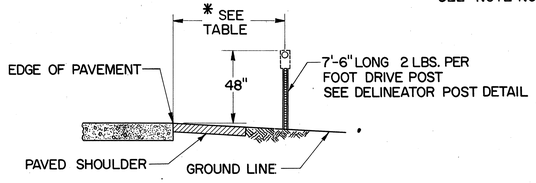


TYPE	DIM. CC
C1-SINGLE WHITE	6"
C2-DOUBLE AMBER	11"
C3-TRIPLE AMBER	16"

ALL BRACKETS 1/4" X 1 1/4" STAINLESS STEEL



BRIDGE RAIL BRACKET

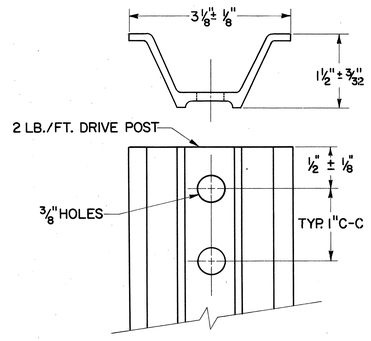


LATERAL PLACEMENT OF DELINEATORS

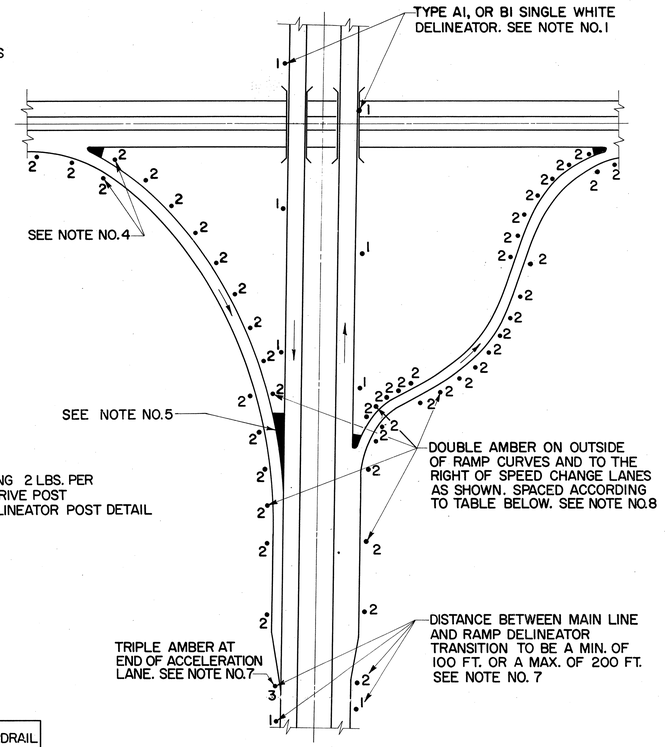
* TABLE

TYPE DELINEATOR	NO GUARDRAIL	GUARDRAIL
SINGLE WHITE	12'-6"	6" OUTSIDE
DOUBLE AMBER RIGHT SIDE	** 8'-6"	6" OUTSIDE
DOUBLE AMBER LEFT SIDE	4'-6"	6" OUTSIDE
TRIPLE AMBER	12'-6"	6" OUTSIDE

** THIS DIMENSION SHALL VARY ON SPEED CHANGE LANES TO MAINTAIN MINIMUM DISTANCE OF 2'-6" FROM EDGE OF PAVED SHOULDER.



DELINEATOR POST



TYPICAL DELINEATOR PLACEMENT

DELINEATOR SPACING ON RAMP HORIZONTAL CURVES

RADII, FT. FROM	RADII, FT. TO	SPACING ON CURVE	* TRANSITION SPACING	
TANGENT	1,801	100'	100'	100'
1,800	1,401	80'	100'	100'
1,400	1,001	70'	100'	100'
1,000	751	60'	100'	100'
750	551	50'	80'	100'
550	326	40'	70'	100'
325	———	30'	60'	100'

* SUCH AS 40' TO 70' TO 100' OR 100' TO 80' TO 50' OR ANY OTHER COMBINATION SHOWN ABOVE.

NOTES

1. TYPE A1 OR B1 DELINEATORS ON THE RIGHT OF THE THROUGH ROADWAY ARE TO BE SPACED AT 200 FT. INTERVALS THROUGHOUT, REGARDLESS OF CURVES, BEGINNING AT STA. +00, +25, +50, OR + 75.
2. DELINEATORS SHALL BE FURNISHED AND ERECTED IN ACCORDANCE WITH SPECIFICATION NO. 620.
3. PAYMENT FOR SUPPORTS (DRIVEPOST OR BRACKET) SHALL BE INCLUDED IN THE UNIT PRICE BID PER EACH FOR "ITEM 620 DELINEATORS".
4. WHEN CROSSING FROM LEFT TO RIGHT OR FROM RIGHT TO LEFT ON THE RAMPS THE DELINEATORS AT THE POINT OF CROSSOVER ARE TO BE AT THE SAME STATION ON EACH SIDE.
5. NO DELINEATORS ARE TO BE PLACED IN PAVED BERM
6. WHEN RADII OF CURVE ON RAMPS REQUIRE 100' SPACING THE DELINEATORS SHALL BE PLACED ON THE RIGHT IN RELATION TO THE FLOW OF TRAFFIC.
7. RAMP DELINEATOR AT END OF ACCELERATION & BEGINNING OF DECELERATION LANES TO BE A MAXIMUM OF 5' FROM POINT OF TANGENCY AT MAIN LINE.
8. ALL RAMP DELINEATORS SHALL BE PLACED TO THE NEAREST 5' INCREMENTS, SUCH AS +05, +10, +15. +20 AND SO ON.

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

DELINEATOR DETAILS

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DATE 9-25-62 10-2-63

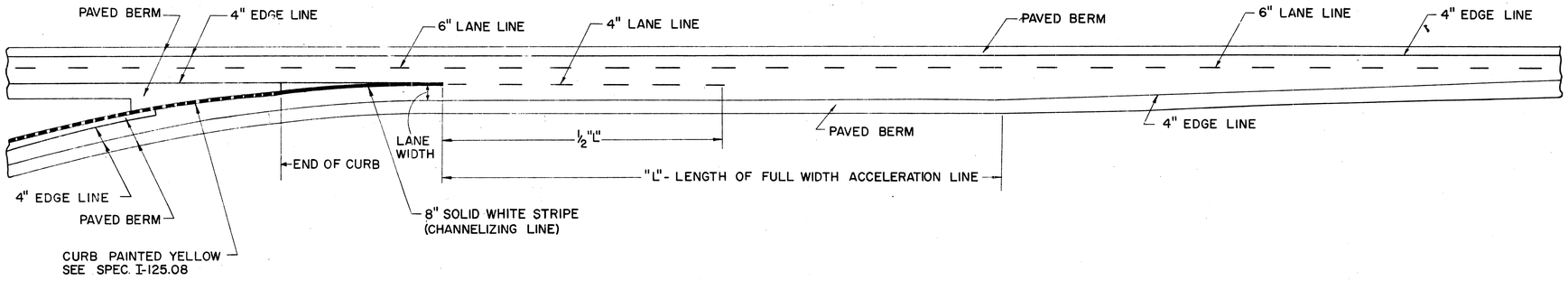
APPROVED Robert E. Comer
ENGINEER OF TRAFFIC

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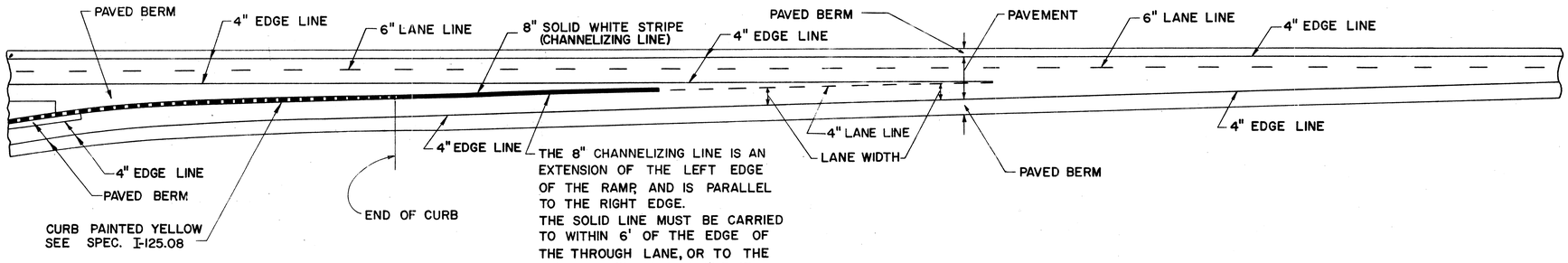
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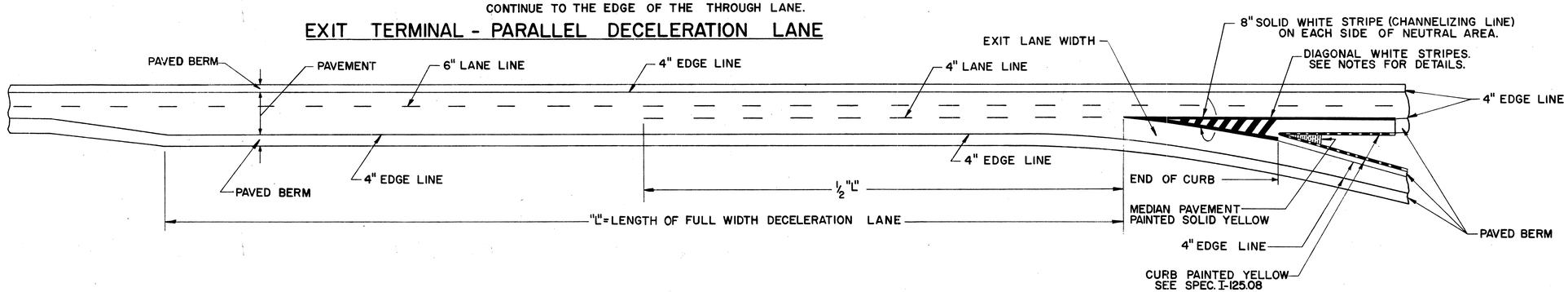
ENTRANCE TERMINAL - PARALLEL ACCELERATION LANE



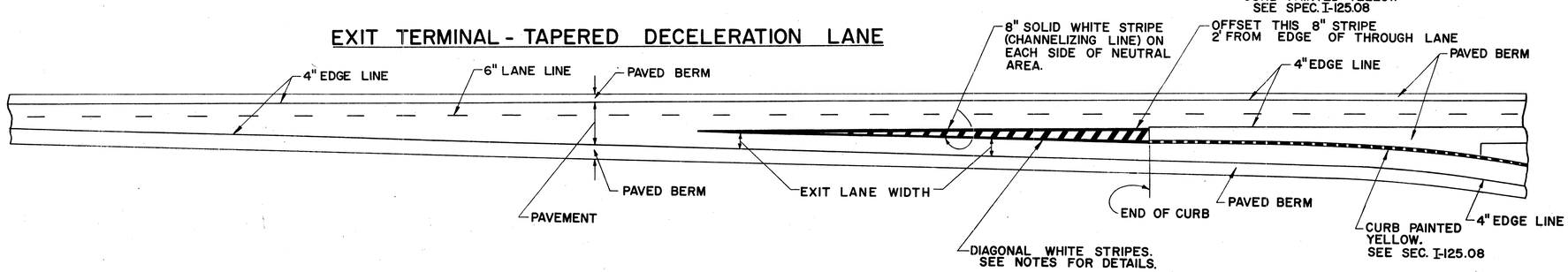
ENTRANCE TERMINAL - TAPERED ACCELERATION LANE



EXIT TERMINAL - PARALLEL DECELERATION LANE



EXIT TERMINAL - TAPERED DECELERATION LANE



NOTES

EDGE LINES SHALL BE PLACED IN THE LOCATIONS AS SHOWN TO CONFORM TO SPECIFICATION No. 621 AND DEFINED IN SECTION 621.06.

LANE LINES SHALL BE PLACED IN THE LOCATIONS AS SHOWN TO CONFORM TO SPECIFICATION No. 621 AND DEFINED IN SECTION 621.07.

CHANNELIZING LINES SHALL BE CONTINUOUS WHITE BEADED STRIPES 8" IN WIDTH PLACED IN THE LOCATIONS AS SHOWN TO CONFORM TO SPECIFICATION No. 621 AND DEFINED IN SECTION 621.09.

DIAGONAL STRIPES IN EXIT RAMP MARKINGS SHALL BE 2' WIDE WHITE BEADED STRIPES SET AT A 45° ANGLE TO THE CENTER LINE OF THE THROUGH PAVEMENT AND SLANTED IN THE DIRECTION OF THE FLOW OF TRAFFIC ON SAID PAVEMENT. SPACE BETWEEN THE 2' DIAGONAL STRIPES SHALL BE 6' AS MEASURED PARALLEL TO THE CENTER LINE OF THE THROUGH PAVEMENT. PAINT ON THE DIAGONAL STRIPES SHALL BE APPLIED AT THE RATE OF ONE GALLON TO EACH 100 SQUARE FEET AND GLASS BEADS SHALL BE APPLIED AT THE RATE OF SIX POUNDS PER GALLON OF PAINT. DIAGONAL WHITE STRIPES SHALL BE PLACED BETWEEN THE TWO 8" WHITE CHANNELIZING LINES AT EXIT RAMPS AS SHOWN TO CONFORM TO SPECIFICATION No. 621 AND DEFINED IN SECTION 621.11

BUREAU OF TRAFFIC
OHIO DEPARTMENT OF HIGHWAYS

PAVEMENT MARKING 621

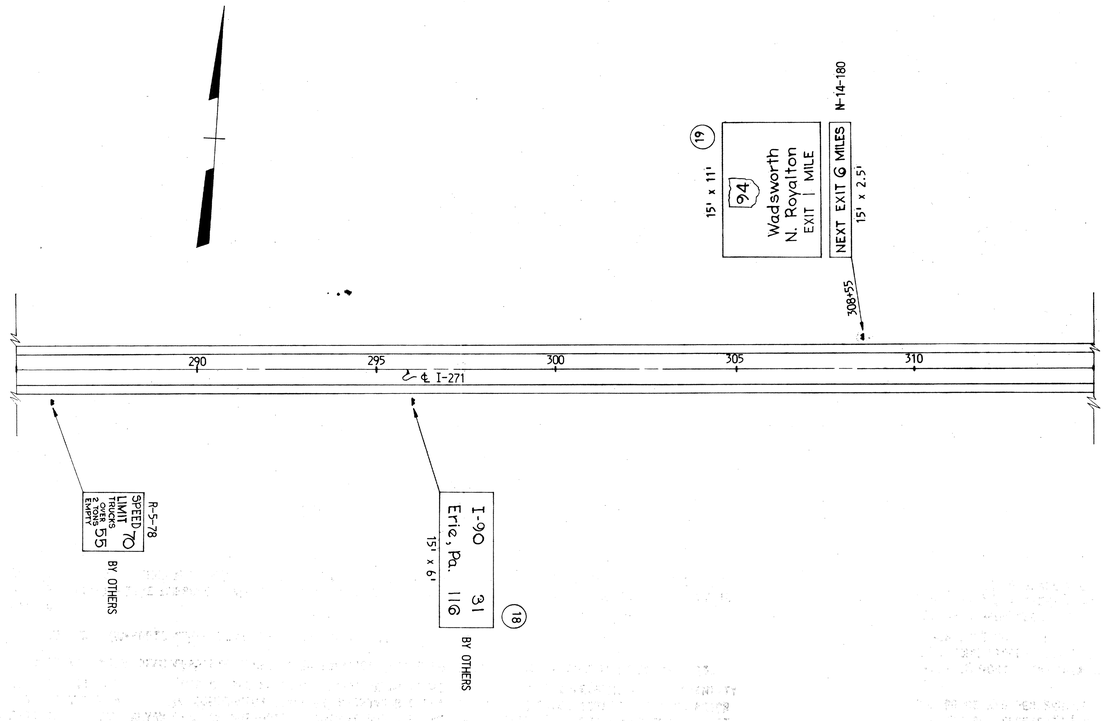
DATE 7-17-61 4-6-62

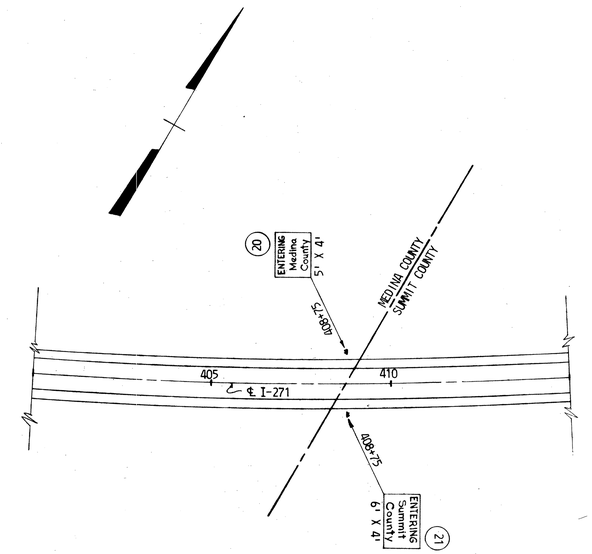
APPROVED Robert E. Lowder
ENGINEER OF TRAFFIC

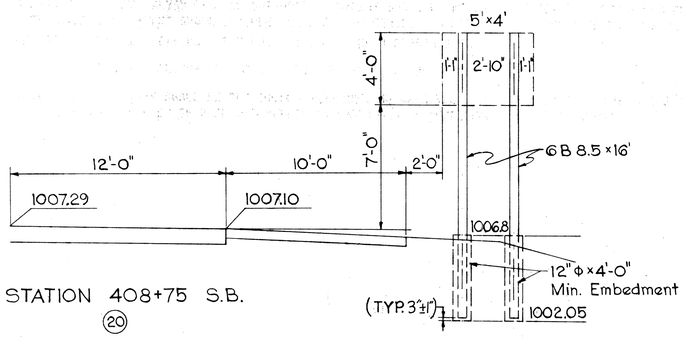
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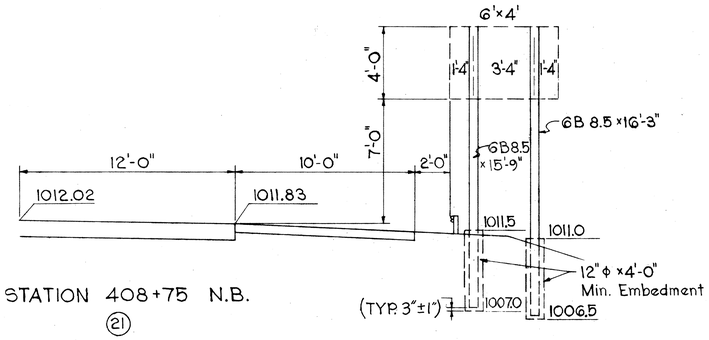
MEDINA COUNTY
SUMMIT COUNTY
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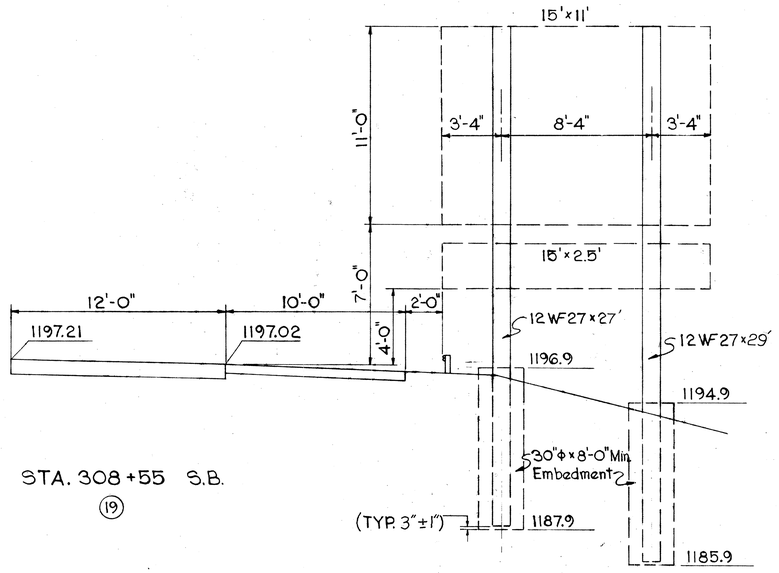




STATION 408+75 S.B.
(20)



STATION 408+75 N.B.
(21)



STA. 308+55 S.B.
(19)

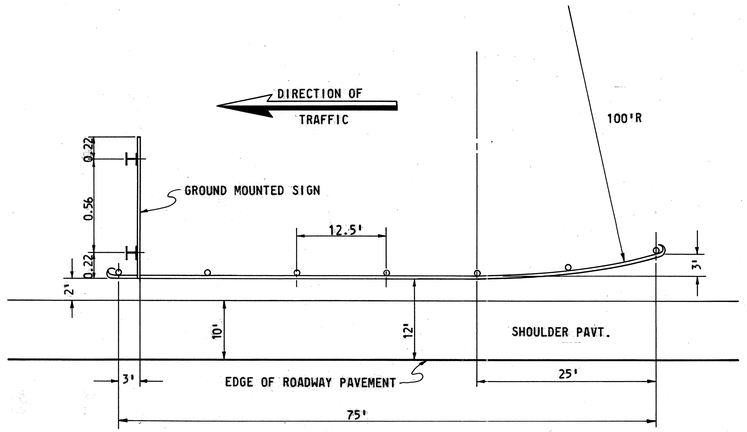
GENERAL SUMMARY
TRAFFIC CONTROL

INSTALLATION 19	INSTALLATION 20	INSTALLATION 21	GRAND TOTAL	UNIT	ITEM NO.	DESCRIPTION
56			56	L.F.	818 69	12WF 27 GROUND MTD. SIGN SUPPORT.
	32	32	64	L.F.	818 69	6B 8.5 GROUND MTD. SIGN SUPPORT.
2.9	0.2	0.2	3.3	Cu.Yd.	818 69	CONCRETE FOR SIGN SUPPORT FOUNDATIONS.
202.5	20	24	246.5	Sq.Ft.	815 69	SIGN ERECTION, AS PER PLAN

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GUARD RAIL PROTECTION FOR GROUND MOUNTED SIGNS *(INSTALLATION NO. 19)*

MATERIALS - GENERAL

MATERIALS TO BE FURNISHED MAY BE SPECIFIED IN THE PLANS BY A GIVEN MANUFACTURER'S CATALOG NUMBER OR TYPE. THIS IS FOR DESCRIPTIVE PURPOSES ONLY AND THE CONTRACTOR MAY ASSUME THAT APPROVED EQUAL MATERIALS MAY BE FURNISHED.

816 STRUCTURAL SUPPORTS STEEL BEAM (TYPE), AS PER PLAN

THE STRUCTURAL STEEL BEAM SUPPORTS SHALL BE GALVANIZED (AFTER PUNCHING) IN ACCORDANCE WITH ASTM-A-123.

QUANTITIES FOR ITEM *816* "STRUCTURAL SUPPORTS, STEEL BEAM (TYPE), AS PER PLAN" APPEARING IN THE QUANTITY TABLES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT SUPPORT LENGTHS PRIOR TO FABRICATION AND GALVANIZING OF SUPPORTS. PAYMENT SHALL BE AT THE CONTRACT UNIT PRICE BID PER LIN. FT. WHICH PRICE AND PAYMENT SHALL INCLUDE ALL COSTS IN CONNECTION WITH THE EMBEDMENT OF THE SUPPORTS.

THE COST OF THE CONCRETE USED FOR EMBEDMENT WILL BE A SEPARATE PAY ITEM.

816 CONCRETE FOR SIGN SUPPORT FOUNDATIONS, BY TYPE, AS PER PLAN.

PAYMENT FOR THIS ITEM SHALL BE PER CUBIC YARD BASED ON APPROVED PLAN DIMENSIONS OR DIMENSIONS AS MODIFIED BY THE ENGINEER IN LIEU OF PLAN QUANTITIES AS SPECIFIED IN SUPPLEMENTAL SPECIFICATION *816*.

815 SIGN ERECTION, BY TYPE, AS PER PLAN

THE CONTRACTOR SHALL ERECT SIGN PANELS FURNISHED BY OTHERS AS NOTED ON THE SCHEMATIC SIGNING LAYOUT SHEET NUMBER 134. THE PANELS SHALL BE MOUNTED ON THE BRACKETS OR BEAM SUPPORTS PROVIDED IN THE PLANS.

A SCHEDULE FOR SIGN ERECTION SHALL BE SUBMITTED TO THE ENGINEER, BUREAU OF TRAFFIC, 450 EAST TOWN STREET, COLUMBUS, OHIO, 60 CALENDAR DAYS PRIOR TO THE START OF ANY SCHEDULED ERECTION WORK. THE SCHEDULE SHALL INCLUDE PROPOSED DATES, TIME, SIGN NUMBERS AND DELIVERY POINT.

THE PRICE BID PER SQUARE FOOT FOR, "ITEM *815* , SIGN ERECTION BY TYPE, AS PER PLAN" SHALL INCLUDE ALL NECESSARY EQUIPMENT, MANPOWER AND TOOLS TO ERECT THE SIGNS NOTED. ALL SIGN MATERIAL AND ACCESSORIES WILL BE FURNISHED AND TRANSPORTED TO A DESIGNATED DELIVERY POINT, ON OR NEAR THE SUBJECT PROJECT BY OTHERS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE HANDLING AND STORAGE OF THE SIGN PANELS AND ACCESSORIES FROM THE TIME OF ARRIVAL AT THE DELIVERY POINT.

CERTIFICATION AND APPROVAL OF SIGN SUPPORTS AND LIGHTING ITEMS

THE CONTRACTOR SHALL SUBMIT THROUGH PROPER CHANNELS THE DRAWINGS, INFORMATION OR SAMPLES AS REQUIRED BELOW:

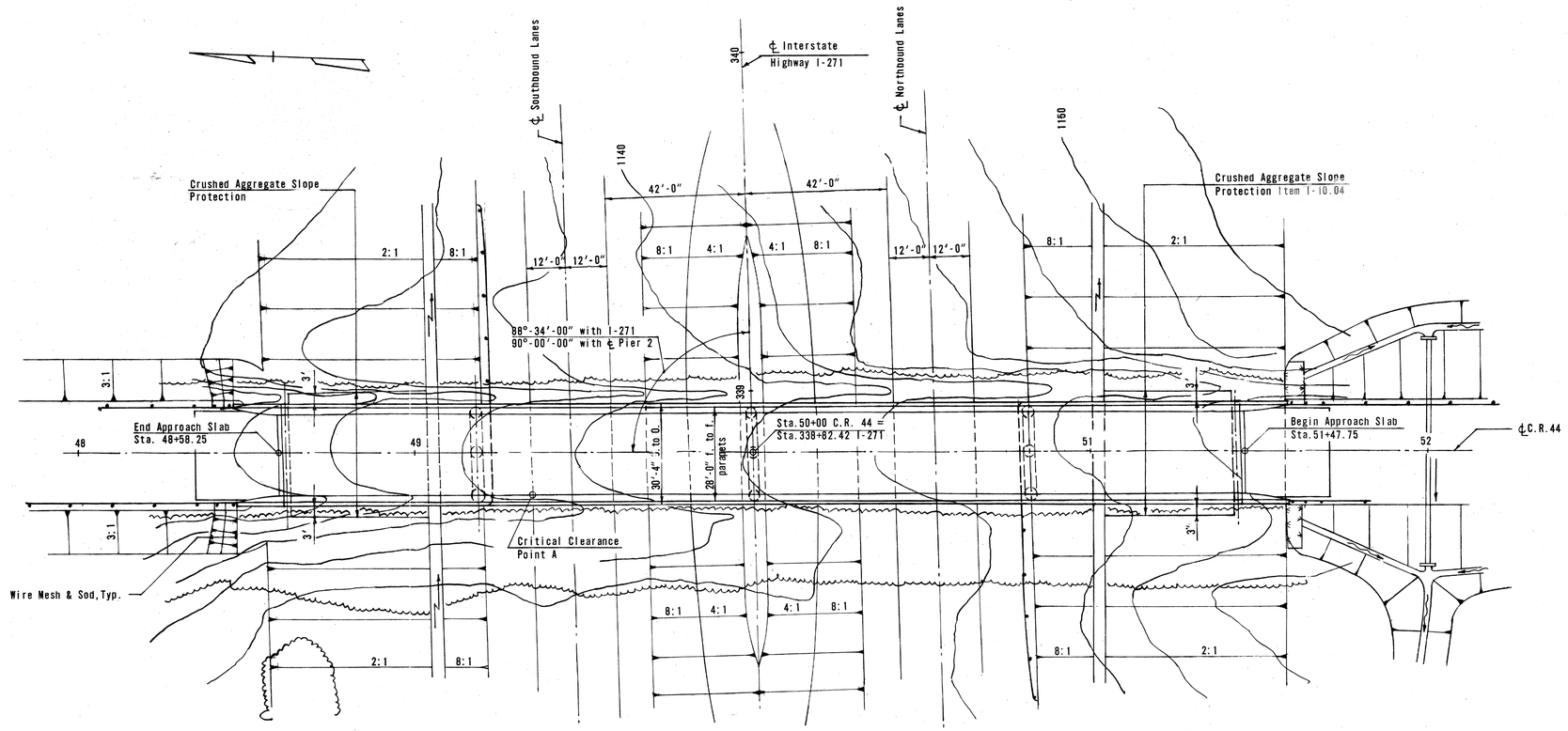
(A) SIX (6) COPIES OF THE FOLLOWING:
SHOP DRAWINGS AND MATERIAL LISTS FOR APPROVAL FOR
1. OVERHEAD SIGN SUPPORTS.
2. SIGN LIGHTING DETAILS.
3. CATALOG CUTS, DESCRIPTIONS OR SAMPLES OF FABRICATOR'S STANDARD ITEMS AS SHOWN IN THE PLANS OR THEIR EQUAL FOR APPROVAL.

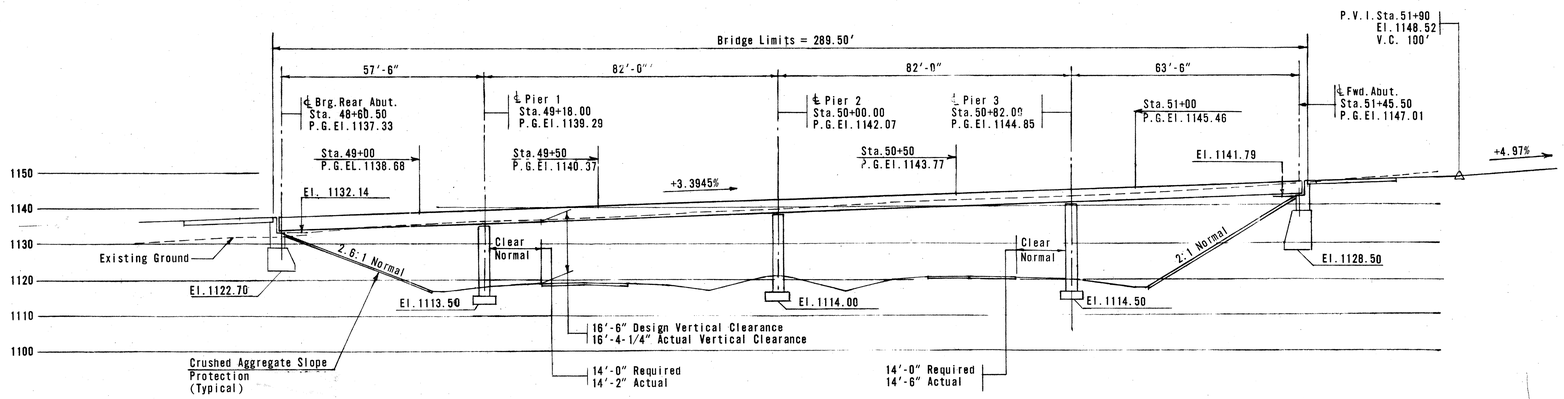
(B) CERTIFICATIONS OR SAMPLES FOR ALL MATERIALS WHICH HAVE BEEN APPROVED ABOVE UNDER ITEM (A) SHALL BE IN POSSESSION OF THE CONTRACTOR PRIOR TO ANY PURCHASE OR INSTALLATION.

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PROPOSED STRUCTURE

Type: Continuous steel beams with reinforced concrete deck and substructure.
Spans: 57'-6"; 82'-0"; 82'-0"; 63'-6"
Roadway: 24'-0" face to face of 2'-0" safety curbs.
Load Frequency: C.F. = 130 (57)
Skew: 1°-26'-00" (0°-00'-00" with Pier 2)
Wearing Surface: 1" Monolithic Concrete.
Approach Slabs: AS-1-54 (25' long).
Alignment: Tangent.
Traffic Volume: 10410, ADT-1975, I-271
833, DDHV-1975, I-271
145, ADT-1975, C.R. 44

J.E.GREINER CO.
CONSULTING ENGINEERS
BALTIMORE, MARYLAND

SITE PLAN 0526

BRIDGE NO. MED-271-0579
INTERSTATE HIGHWAY 271 UNDER
MEDINA COUNTY ROAD NO. 44

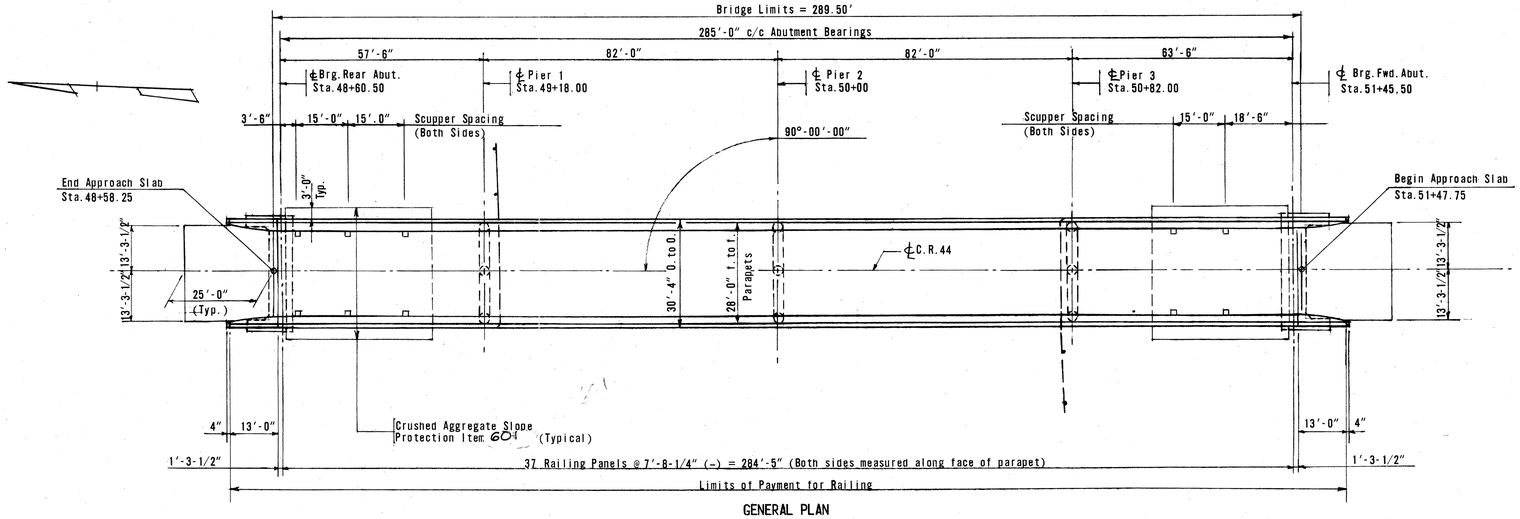
MEDINA CO. **STA. 338+82.42**

PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
HENRY	AIR SURVEYS CORP.	HUANG	BERGER	SHERMAN	MUDD

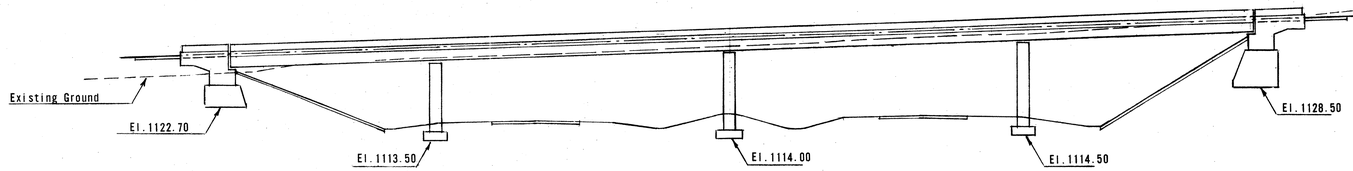
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GENERAL PLAN



ELEVATION

GENERAL NOTES

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57, together with current revisions thereof.

REFERENCE should be made to:

Standard Drawing FSB-1-62, revised 1-15-63, and AS-1-54, revised 8-10-65
" " SD-1-63, Sheets 1 thru 4, dated 11-12-63.
" " BR-1-65, Type 1, Sheet 1, dated 2-1-65
" " SD-2-64, dated 11-25-64

Supplemental Specifications:
806, dated 9-2-65
811, revised 3-29-65
825 4-22-65

EXCAVATION QUANTITY includes the removal of fill material between the surface of the proposed embankment and the bottom of the abutment.

PEDESTALS AND FOOTINGS OF PIERS shall extend a minimum of 3" into undisturbed rock or to the elevation shown, whichever is lower.

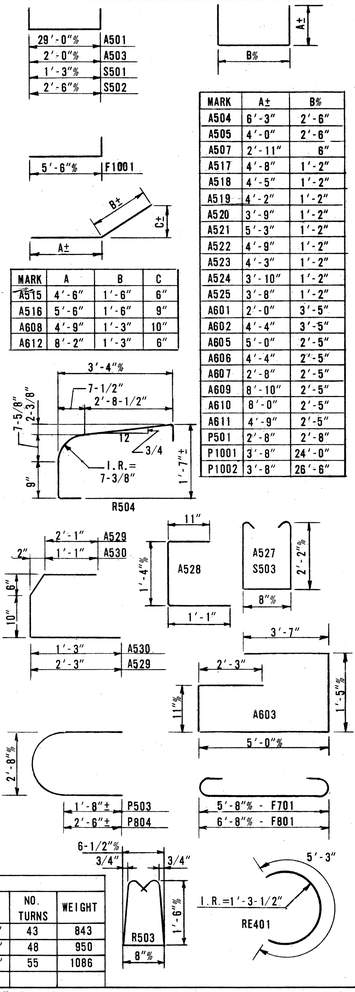
ESTIMATED QUANTITIES

Item	Total	Unit	DESCRIPTION	Super.	Abuts.	Piers	General
503	200	Cu.Yds.	Unclassified excavation		200		
511	271	Cu.Yds.	Class "C" concrete, superstructure	271			
511	77	Cu.Yds.	Class "C" concrete, piers above footings			77	
511	77	Cu.Yds.	Class "E" concrete, abutments above footings		77		
511	82	Cu.Yds.	Class "E" concrete, footings		48	34	
509	97,812	Lbs.	Reinforcing Steel	67,780	10,742	19,290	
513	227,500	Lbs.	Structural Steel	227,500			
514	227,500	Lbs.	Field painting of structural steel	227,500			
517	626.0	Lin.Ft.	Railing(Type 1)	574.0	52.0		
503	71	Cu.Yds.	Rock excavation			71	
503	Lump	Sum	Cofferdams, cribs and sheeting		Lump		
518	53	Lin.Ft.	6" Helical perforated CMP 707.06 including specials		53		
518	54	Lin.Ft.	6" Helical CMP 707.06 non-perforated		54		
518	10	Each	Scuppers, including supports	10			
518	23	Cu.Yds.	Porous backfill		23		
808	271	Each	Water-reducing, set-retarding admixture	271			
601	371	Sq.Yds.	Crushed aggregate slope protection				371
825	1185	Sq.Yds.	Concrete Surface Treatment				1185

REINFORCING STEEL LIST

MARK	NO.	LENGTH	WEIGHT	SHP.
ABUTMENTS				
A501	14	30'-0"	438	B
A502	14	29'-0"	423	S
A503	48	3'-0"	150	B
A504	52	14'-9"	800	B
A505	26	10'-3"	278	B
A506	28	5'-0"	146	S
A507	12	6'-1"	76	B
A508	16	7'-2"	120	S
A509	16	4'-0"	67	S
A510	10	15'-0"	156	S
A511	10	12'-0"	125	S
A512	12	3'-6"	44	S
A513	2	9'-0"	19	S
A514	2	6'-0"	13	S
A515	4	6'-0"	25	B
A516	4	7'-0"	29	B
A517	2	10'-3"	21	B
A518	2	9'-9"	20	B
A519	2	9'-3"	19	B
A520	10	8'-5"	88	B
A521	2	11'-5"	24	B
A522	2	10'-5"	22	B
A523	2	9'-5"	20	B
A524	2	8'-7"	18	B
A525	8	8'-3"	69	B
A526	16	12'-10"	214	S
A527	40	5'-7"	233	B
A528	40	3'-1"	129	B
A529	28	5'-5"	158	B
A530	12	3'-3"	41	B
A531	8	10'-0"	188	S
A601	38	7'-1"	404	B
A602	38	11'-9"	671	B
A603	56	12'-6"	1051	B
A604	108	4'-0"	649	S
A605	23	12'-1"	417	B
A606	3	10'-9"	48	B
A607	3	7'-5"	33	B
A608	6	6'-0"	54	B
A609	23	19'-9"	682	B
A610	3	18'-1"	81	B
A611	3	11'-7"	52	B
A612	6	9'-5"	85	B
A613	12	6'-7"	119	S
A614	24	9'-0"	324	S
A615	24	9'-3"	333	S
A801	20	29'-4"	1566	S

BENDING DIAGRAMS



MARK	A±	B%
A504	6'-3"	2'-6"
A505	4'-0"	2'-6"
A507	2'-11"	6"
A517	4'-8"	1'-2"
A518	4'-5"	1'-2"
A519	4'-2"	1'-2"
A520	3'-9"	1'-2"
A521	5'-3"	1'-2"
A522	4'-9"	1'-2"
A523	4'-3"	1'-2"
A524	3'-10"	1'-2"
A525	3'-8"	1'-2"
A601	2'-0"	3'-5"
A602	4'-4"	3'-5"
A605	5'-0"	2'-5"
A606	4'-4"	2'-5"
A607	2'-8"	2'-5"
A609	8'-10"	2'-5"
A610	8'-0"	2'-5"
A611	4'-9"	2'-5"
P501	2'-8"	2'-8"
P1001	3'-8"	24'-0"
P1002	3'-8"	26'-6"

MARK	A	B	C
A515	4'-6"	1'-6"	6"
A516	5'-6"	1'-6"	9"
A608	4'-9"	1'-3"	10"
A612	8'-2"	1'-3"	6"

SPIRAL BARS

MARK	NO.	CORE DIA % SPIRAL	LENGTH	PITCH	NO. TURNS	WEIGHT
SP401	3	32	15'-0"	4-1/2"	43	843
SP402	3	32	17'-0"	4-1/2"	48	950
SP403	3	32	19'-7"	4-1/2"	55	1086

MARK	NO.	LENGTH	WEIGHT	SHP.
PIERS				
P501	96	7'-9"	776	B
P502	12	24'-0"	300	S
P503	18	7'-5"	142	B
P801	6	24'-0"	384	S
P802	6	26'-2"	419	S
P803	6	26'-8"	427	S
P804	6	9'-1"	146	B
P1001	6	30'-9"	794	B
P1002	6	33'-3"	858	B
P1003	9	12'-0"	465	S
P1004	24	18'-8"	1928	S
P1005	24	20'-7"	2126	S
P1006	24	23'-2"	2392	S
F701	120	7'-4"	1799	B
F801	60	8'-10"	1415	B
F1001	72	6'-7"	2040	B
SUPERSTRUCTURE				
S501	824	2'-3"	1934	B
S502	412	3'-6"	1504	B
S503	412	5'-7"	2399	B
S601	344	29'-8"	15328	S
S602	408	37'-5"	22930	S
S603	57	33'-0"	2825	S
S701	344	29'-8"	20860	S
PARAPET RAILING				
R501	16	12'-9"	*	S
R502	16	4'-7"	*	S
R503	12	4'-2"	*	B
R504	8	5'-4"	*	B
R505	144	15'-1"	*	S

* Parapet railing bars are included with S-14 for payment

REPLACEMENT BARS				
RE401	1	5'-3"	–	B
RE501	1	5'-7"	–	S
RE601	3	5'-11"	–	S
RE701	2	6'-3"	–	S
RE801	1	6'-6"	–	S
RE1001	1	7'-2"	–	S

SPIRAL REINFORCING BARS: The "Length" shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap. The "No. of Turns" shown is the "Length" divided by the pitch, plus 3 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 509 1-1/2 closed coils shall be provided at the ends of each spiral unit. 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 number of pounds of these spacers, based on 0.68 lb.per lin.ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.
BAR SIZE is indicated in the bar mark. The first digit where three digits are used, and the first two digits where four are used indicate the bar size number. For example, A701 is a No. 7 size bar and P1002 is a No. 10 size bar.
⊕ Cost of field bending and cutting to be included with Item 509 for payment.

Design Loading - C.F.(130)57
Concrete Class "C" - basic unit stress 1333 p.s.i.
Concrete Class "E" - basic unit stress 1133 p.s.i.
Structural Steel - ASTM A36 - basic unit stress 20,000 p.s.i.

Reinforcing Steel - ASTM A15, A16, A160, Deformed, Intermediate or Hard Grade. Basic unit stress 20,000 p.s.i. Except, spiral reinforcement may be plain, Structural Grade with basic unit stress of 18,000 p.s.i.

J.E GREINER COMPANY
CONSULTING ENGINEERS
BALTIMORE, MARYLAND

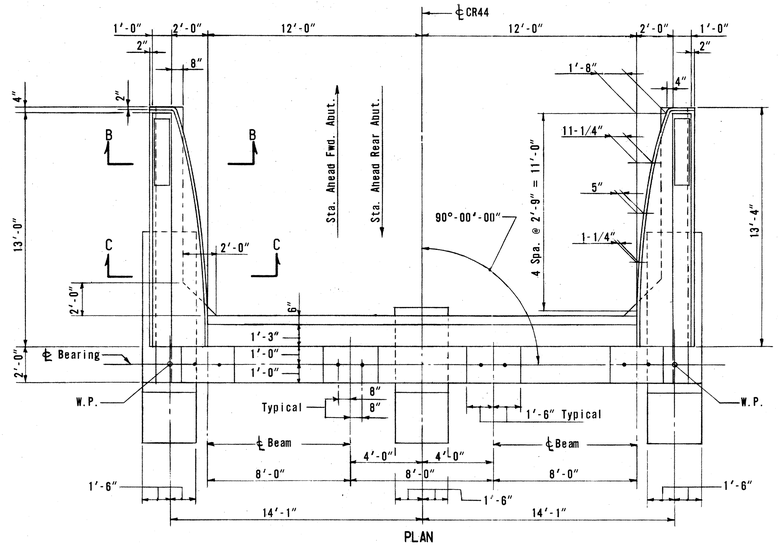
GENERAL PLAN AND ELEVATION, NOTES, ESTIMATED QUANTITIES AND REINFORCING STEEL LIST
BRIDGE NO. MED-271-0579
I.R. 271 UNDER MEDINA CO. RD. NO. 44
MEDINA CO. STA. 338+82.42

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HUANG	BERGER	BERGER	SHERMAN	MUDD	6-18-65	

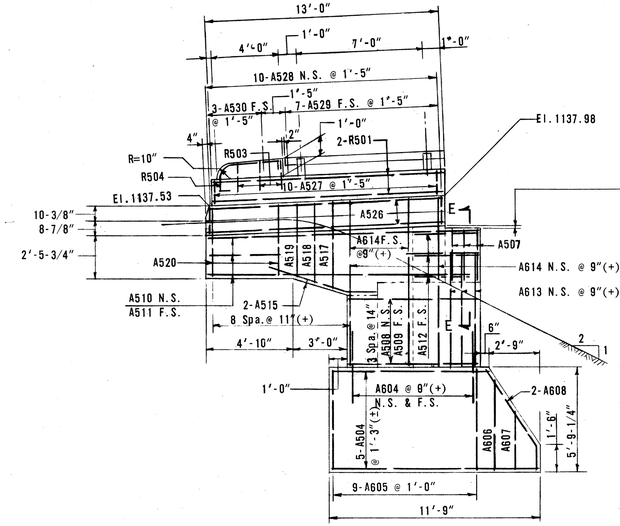
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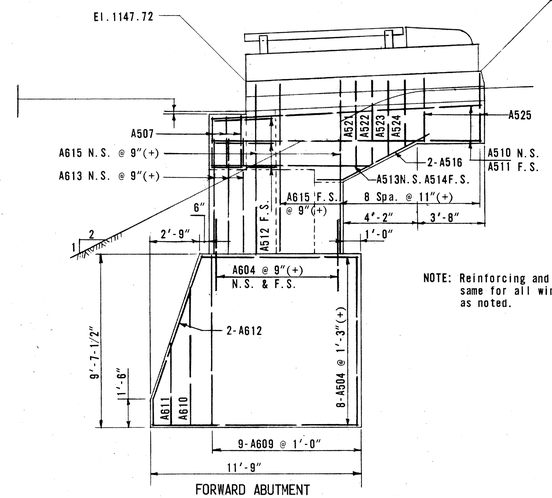


PLAN



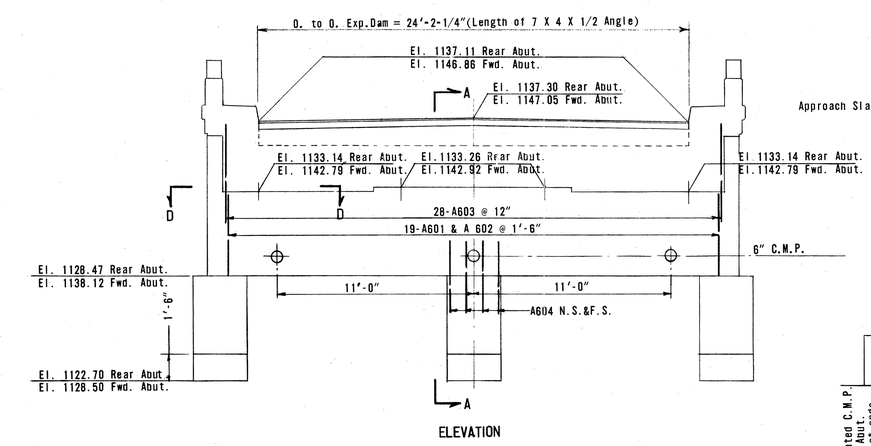
REAR ABUTMENT

2" Clear Below Superstructure

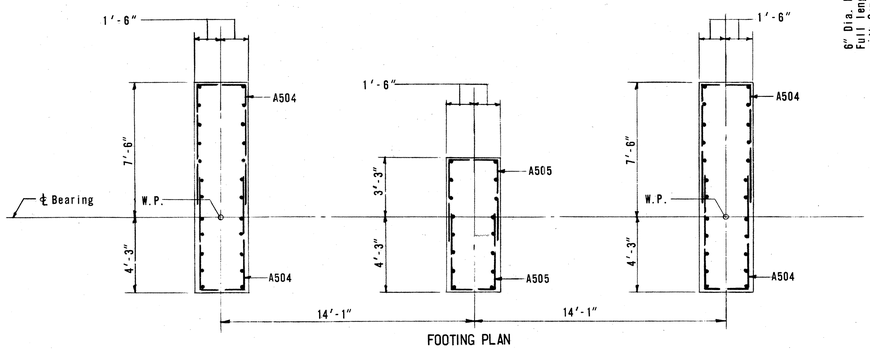


FORWARD ABUTMENT

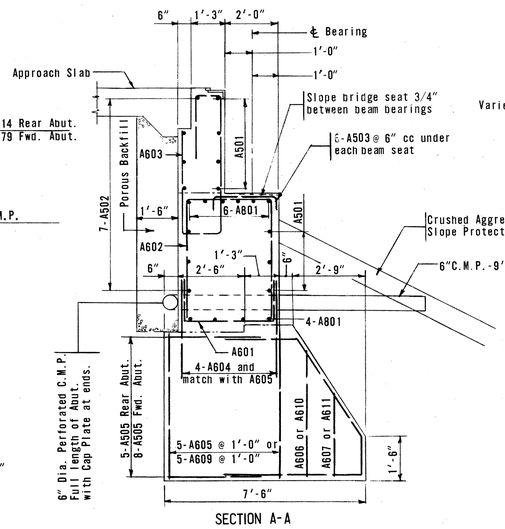
NOTE: Reinforcing and Dimensions the same for all wingwalls except as noted.



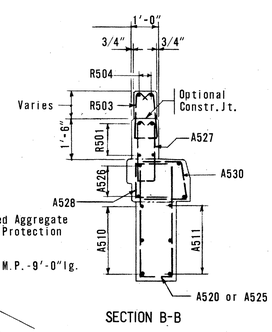
ELEVATION



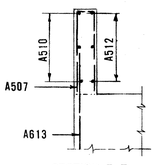
FOOTING PLAN



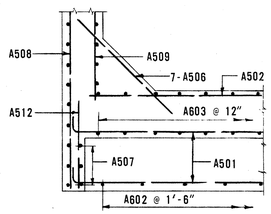
SECTION A-A



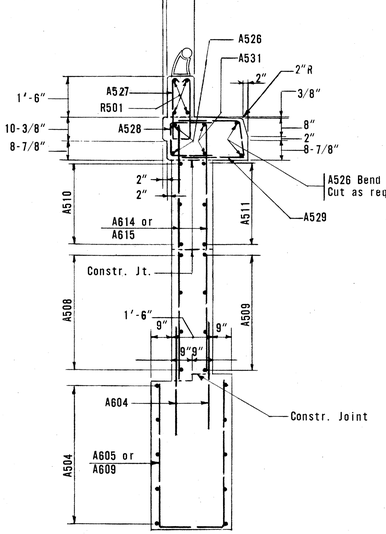
SECTION B-B



SECTION E-E



SECTION D-D



SECTION C-C

FOUNDATION BEARING PRESSURE: Abutment footings are designed for a maximum bearing pressure of 8 Tons per Sq.Ft.

CLEARANCE of reinforcing steel from face of concrete shall be 3" in bottom of footing and 2" elsewhere.

POROUS BACKFILL shall extend upward to the approach slab and outward to the wingwalls. Excavation therefore, in excess of that required for the construction of the abutment, shall be considered as paid for in the bid price per cu.yd. paid for porous backfill

PROCEDURE: Abutment backwalls above the bridge seat shall not be placed until all steel is erected. Abutment backwalls shall be completed prior to placing bridge deck slab.

BRIDGE SEAT REINFORCING: Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat so as to avoid interference with the drilling of anchor rod holes.

CONCRETE shall be Class E.

LEGEND:

N.S. - Near Side
F.S. - Far Side

For details of roadway end finish see Standard Drawing SD-1-63, Sheets 2 and 4.

PEDESTAL PROCEDURE: After the pedestals have been constructed the earth fill shall be placed and compacted up to the height of the earth bench or the finished spill-thru slope and to the level of the subgrade, after which excavation shall be made for the crossbeam.

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ABUTMENT DETAILS
BRIDGE NO. MED-271-0579
I.R. 271 UNDER MEDINA CO. RD. NO. 44

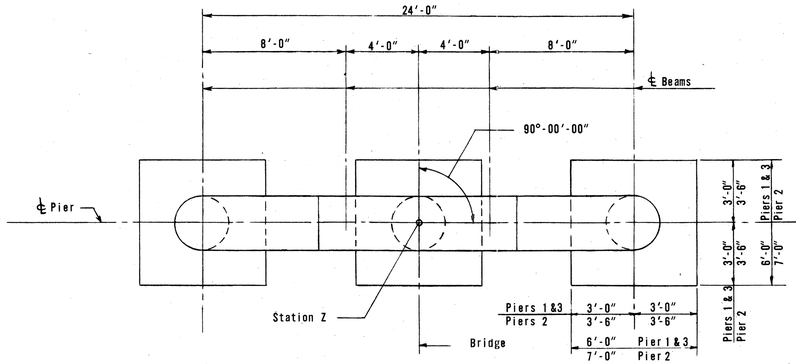
MEDINA CO. STA. 338+82.42

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HUANG	WALTER	WALTER	PAHL	MUDD	6-18-65	

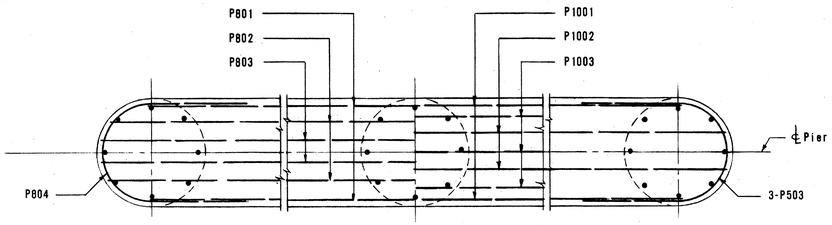
MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

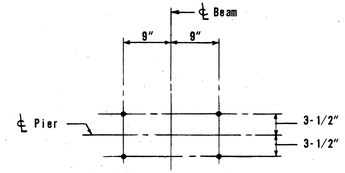
139
178



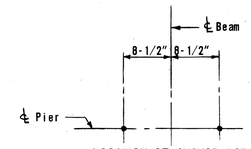
PLAN



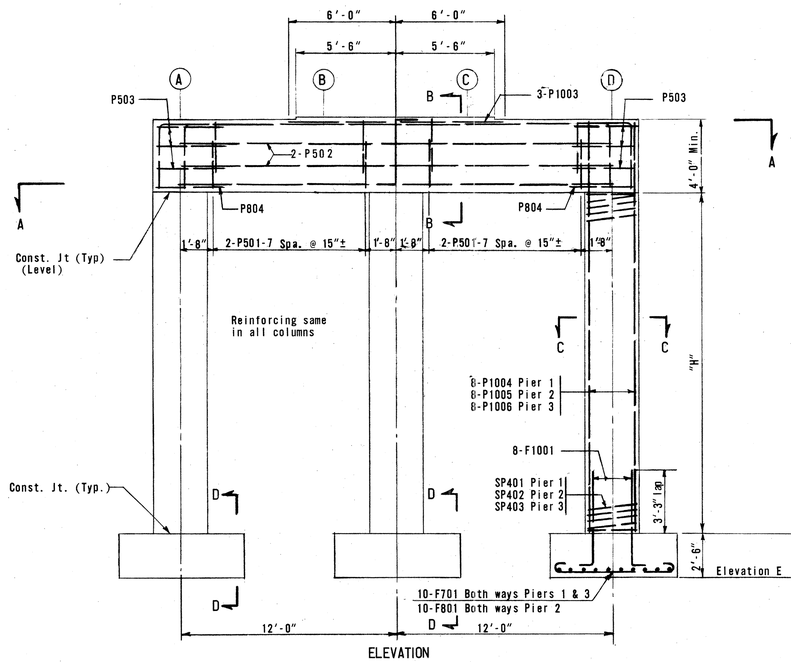
SECTION A-A



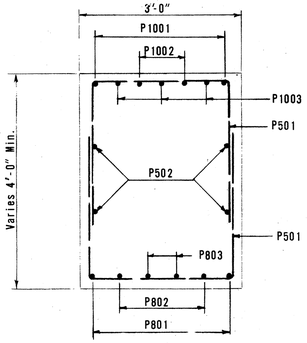
LOCATION OF ANCHOR RODS
FIXED BEARING F-200
PIER 2



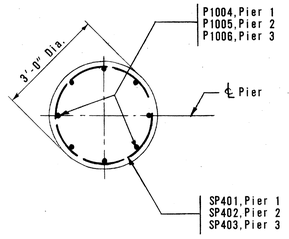
LOCATION OF ANCHOR RODS
EXPANSION BEARING E-200
PIERS 1 & 3



ELEVATION

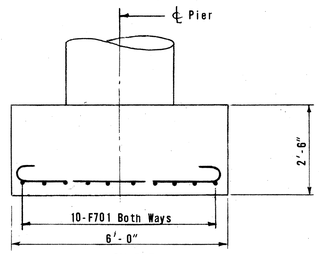


SECTION B-B

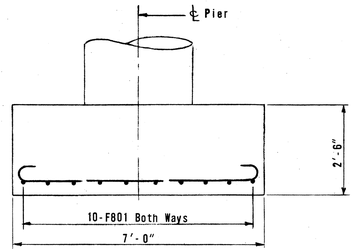


SECTION C-C

	STATION	ELEVATIONS					DIMENSION
	Z	A	B	C	D	E	H
Pier 1	49+18.00	1135.02	1135.15	1135.15	1135.02	1113.50	15'-0-1/4"
Pier 2	50+00.00	1137.48	1137.61	1137.61	1137.48	1114.00	16'-11-15/16"
Pier 3	50+82.00	1140.58	1140.70	1140.70	1140.58	1114.50	19'-6-15/16"



SECTION D-D
PIERS 1 & 3



SECTION D-D
PIER 2

FOUNDATION BEARING PRESSURE: Pier Footings are designed for a maximum bearing pressure of 8 Tons per Sq. Ft.

CLEARANCE of reinforcing steel from face of concrete shall be 3" in bottom of footings and 2" elsewhere.

For details of Fixed and Sliding Bearings see Std. Dwg. No. FSB-1-62.

CONCRETE shall be Class E in Footings and Class C above Footings.

BRIDGE SEAT REINFORCING: Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat so as to avoid interference with the drilling of anchor rod holes.

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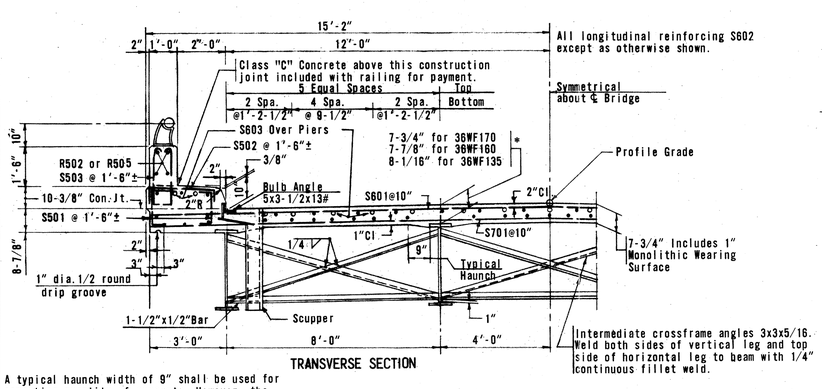
PIER DETAILS

BRIDGE NO. MED-271-0579
I.R.*271 UNDER MEDINA CO. RD. NO. 44

MEDINA CO. **STA. 338+82.42**

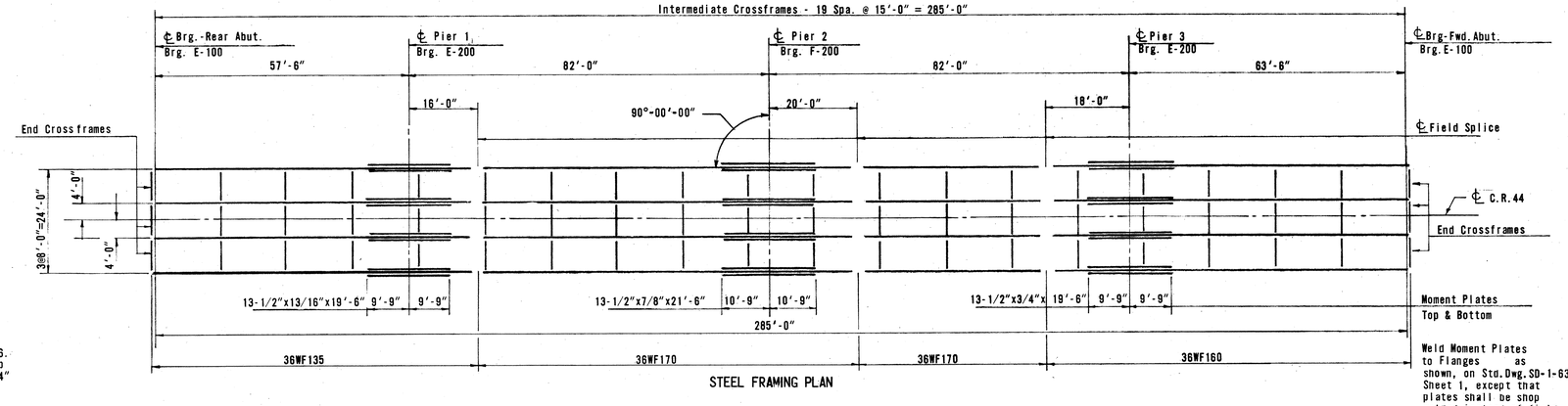
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
PAHL	ALKEMA	ALKEMA	HUANG	MUDD	6-18-65	

* This is the nominal dimension. The quantity of deck concrete to be paid for shall be based upon this dimension, even though deviation from it may be necessary because the top flange of the girder may not have the exact camber or conformation required to place it parallel to the finished grade. Deduction shall be made for volume of encased steel plates as per Sec. 511.19 of the Construction and Material Specifications.

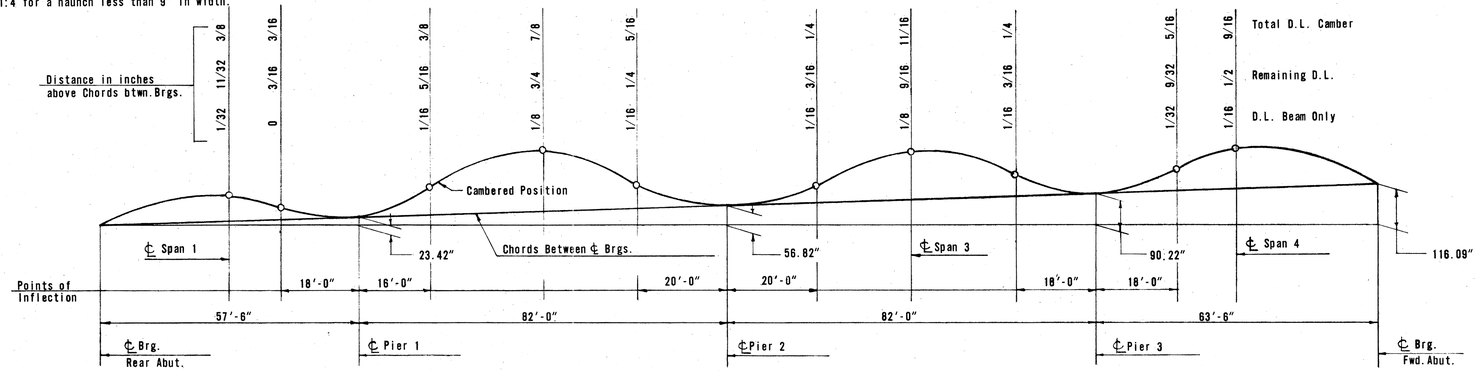


TRANSVERSE SECTION

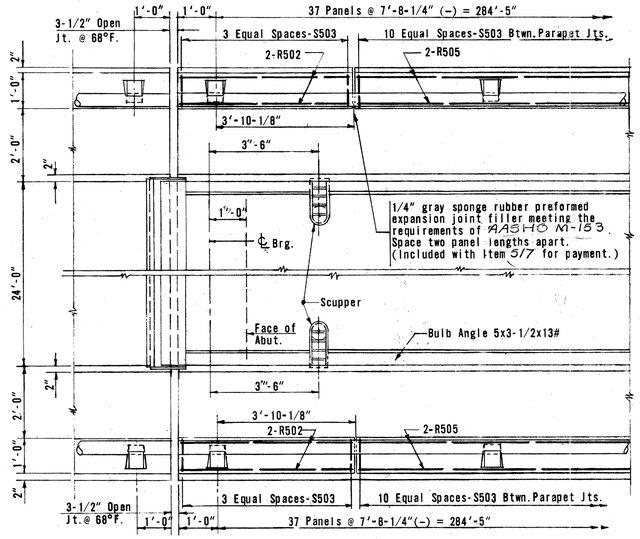
A typical haunch width of 9" shall be used for computing quantity of concrete. However, the haunch width may vary between 6" and 12" provided that the slope shall be not more than 1:4 for a haunch less than 9" in width.



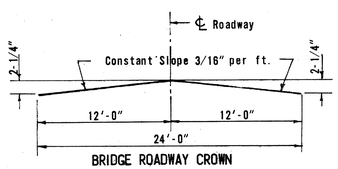
STEEL FRAMING PLAN



CAMBER DIAGRAM



PART PLAN AT ABUTMENTS



BRIDGE ROADWAY CROWN

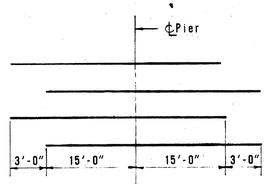
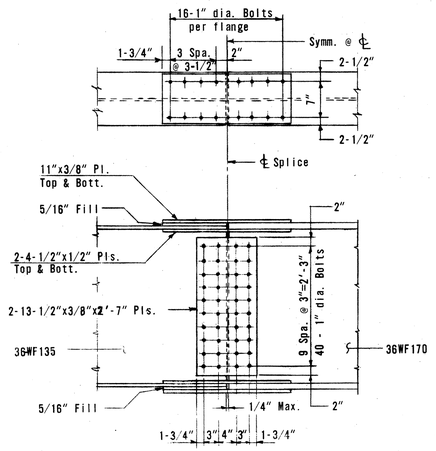


DIAGRAM SHOWING STAGGER OF S603 BARS OVER PIERS



BEAM SPLICE DETAIL
36WF135 TO 36WF170

For details of Beam Splices of 36WF170 to 36WF170 and 36WF160 to 36WF170 see Standard Drawing SD-2-64.

SUPERSTRUCTURE NOTES

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 parallel to transverse reinforcing steel and are located near the center of any span.

MACHINE FINISH: The concrete bridge deck shall be finished by the use of a finishing machine.

For details of end crossframes, roadway end-finish, beam cutoff at backwall, and welded butt joint in end finish angles at centerline of roadway, see Standard Drawing SD-1-63, Sheet 2.

For details of scuppers, curb plates and gutter supports see Standard Drawing SD-1-63, Sheets 3 & 4

For details of fixed and sliding bearings see Standard Drawing FSB-1-62.

For details of aluminum railing see Standard Drawing BR-1-65, Type 1.

For Scupper spacing see Sheet No.137.

REINFORCING STEEL shall be 2" clear of surfaces in parapets and safety curbs. Place transverse reinforcing normal to center line of roadway.

MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

FED.RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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SUPERSTRUCTURE DETAILS
BRIDGE NO. MED-271-0579
I.R.*271 UNDER MEDINA CO. RD. NO. 44

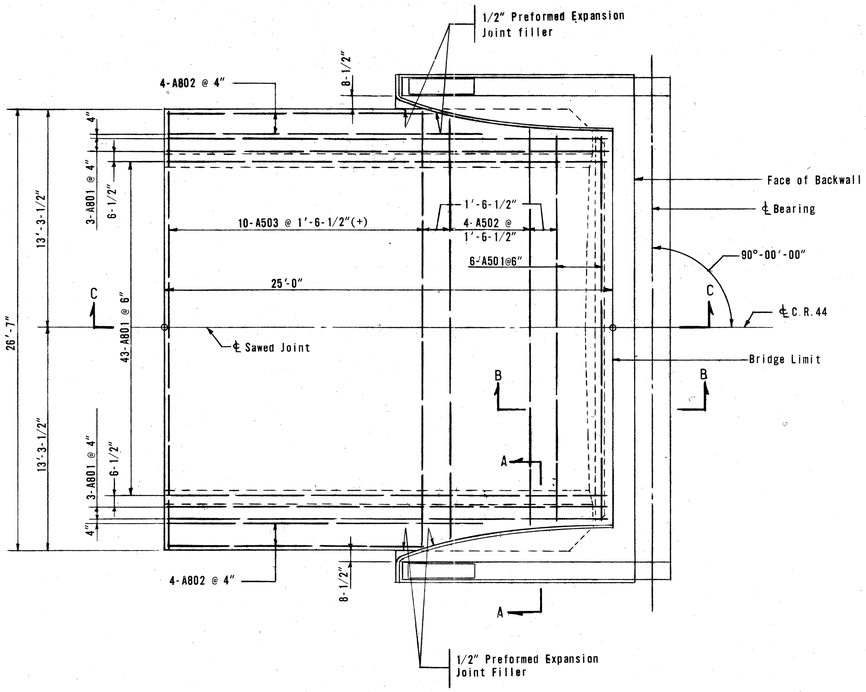
MEDINA CO. STA. 338+82.42

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HUANG	HAYDEN	HAYDEN	SHERMAN	MUDD	6-18-65	

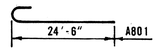
MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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REINFORCING STEEL LIST				
MARK	NO.	LENGTH	WEIGHT	SHP.
A801	98	25'-7"	6694	B
A802	4 Series of 4 Bars 1'-3" Incr.	14'-3" to 18'-0"	689	S
A501	12	23'-6"	294	S
A502	2 Series of 4 Bars 4" Incr.	24'-0" to 25'-0"	204	S
A503	20	26'-1"	544	S



Quantities are for two (2) Approach Slabs

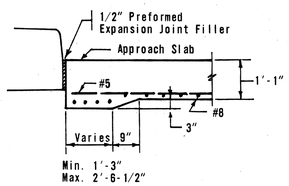
NOTES:

1/2" Preformed Expansion Joint Filler shall be included in Item611 "Reinforced Concrete Approach Slab" for payment.

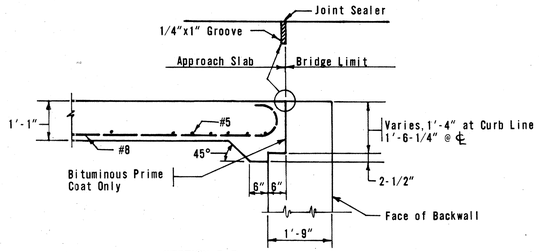
Bar Size is indicated in the Bar Mark. The first digit indicates the Bar Size Number. For example: A801 is a No. 8 Bar Size.

Work this sheet with Standard Drawing No. AS-1-54 (Revised 8-10-65).

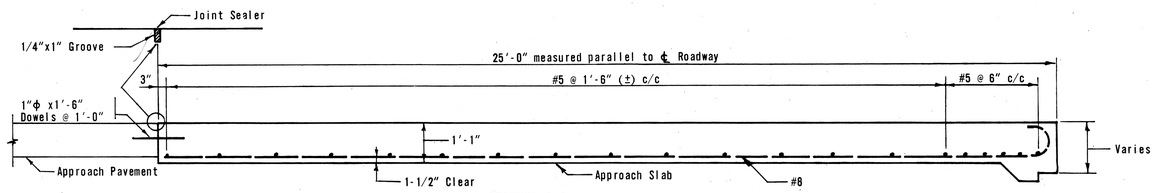
Concrete in Approach Slabs shall be Class C.



SECTION A-A



SECTION B-B



SECTION C-C

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BALTIMORE, MARYLAND

APPROACH SLAB DETAILS

BRIDGE NO. MED-271-0579
I.R. 271 UNDER MEDINA CO. RD. NO. 44

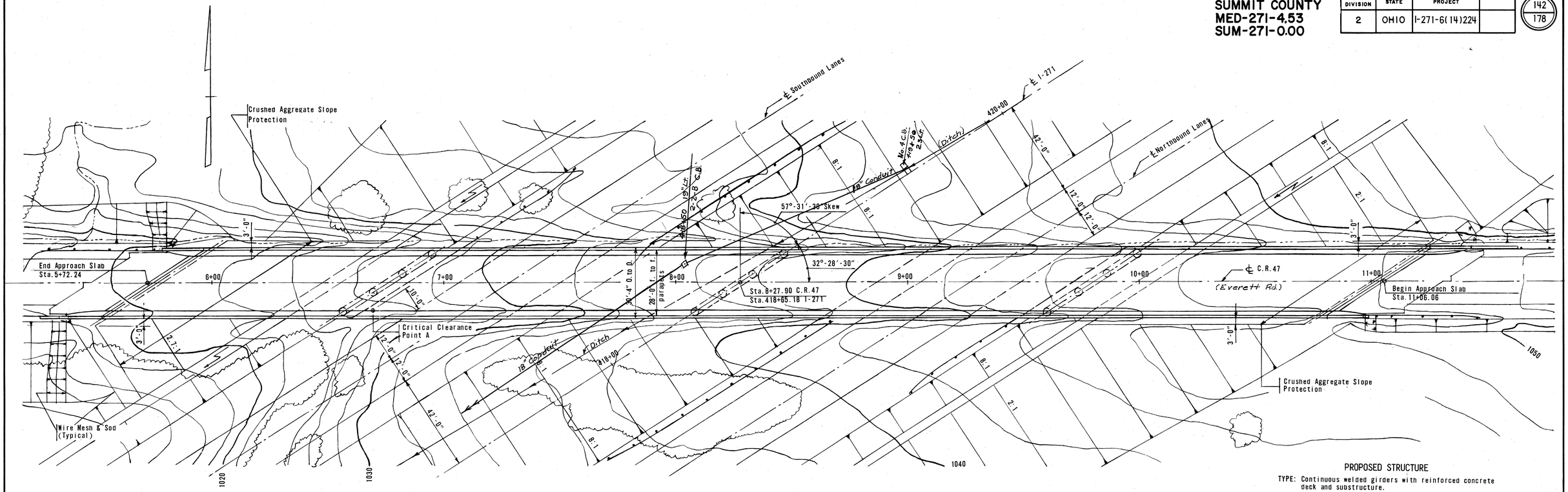
MEDINA CO. **STA. 338+82.42**

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
SHERMAN	WALTER	WALTER	PAHL	MUDD	6-18-65	

SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

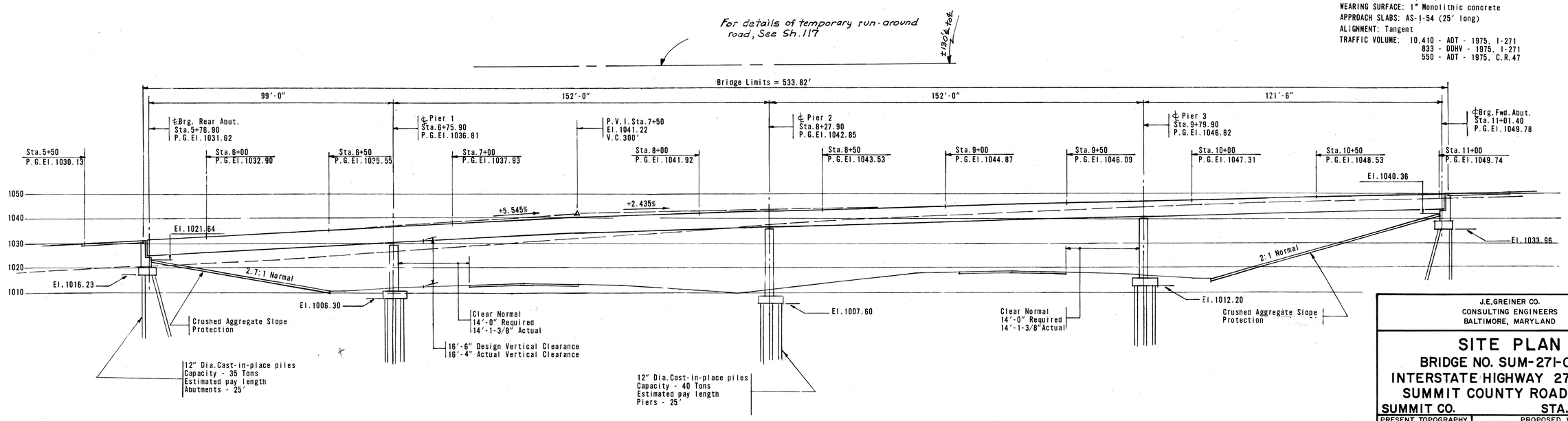
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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PROPOSED STRUCTURE

TYPE: Continuous welded girders with reinforced concrete deck and substructure.
SPANS: 99'-0"; 152'-0"; 152'-0"; 121'-6"
ROADWAY: 24'-0" face to face of 2'-0" Safety Curbs
LOAD FREQUENCY: C.F. = 130(57)
SKEW: 57°-31'-30" (L.F.)
WEARING SURFACE: 1" Monolithic concrete
APPROACH SLABS: AS-1-54 (25' long)
ALIGNMENT: Tangent
TRAFFIC VOLUME: 10,410 - ADT - 1975, I-271
833 - DDHV - 1975, I-271
550 - ADT - 1975, C.R.47



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SITE PLAN 0020

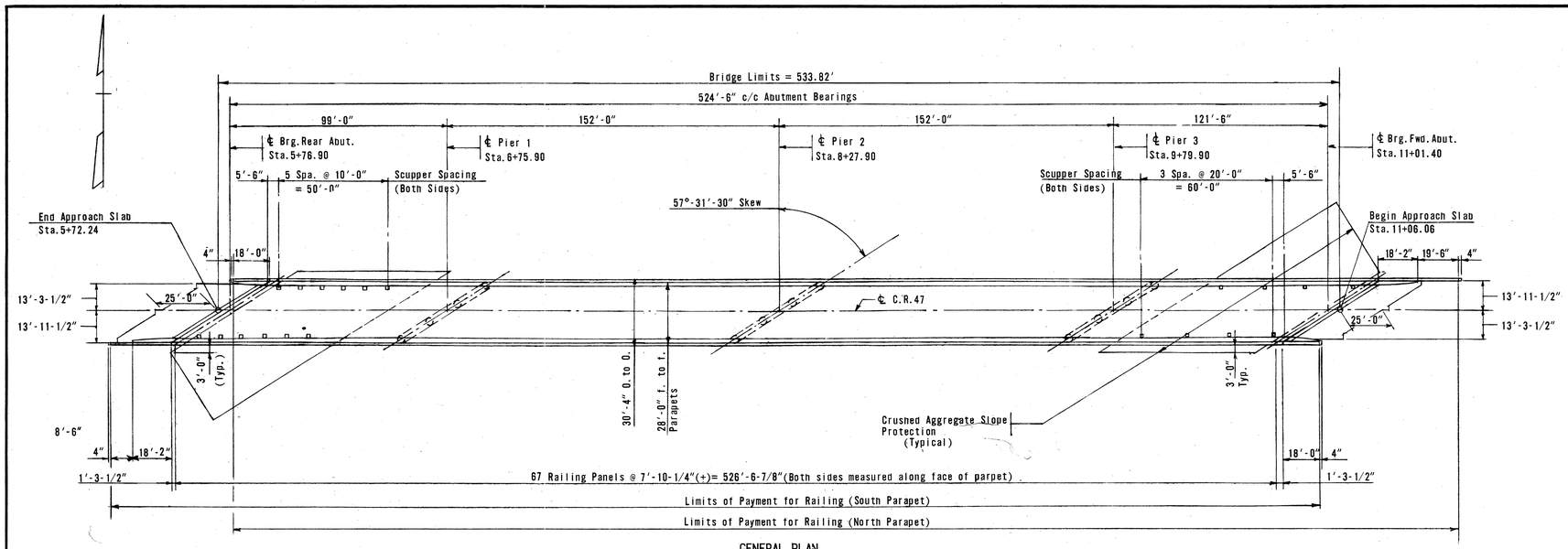
BRIDGE NO. SUM-271-0019
INTERSTATE HIGHWAY 271 UNDER
SUMMIT COUNTY ROAD NO. 47
SUMMIT CO. **STA. 418+65.18**

PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
HENRY	AIR SURVEYS CORP	SHERMAN	BERGER	PAHL	MUDD

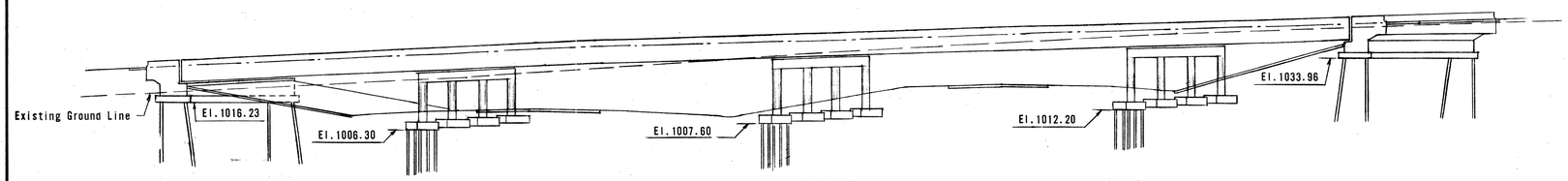
SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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GENERAL PLAN



ELEVATION

GENERAL NOTES

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57, together with current revisions thereof.
REFERENCE should be made to:
Standard Drawing FSB-1-62, revised 1-15-63, and AS-1-54, revised 8-10-65
" " SD-1-63, Sheets 2, 3 & 4, dated 11-12-63.
" " BR-1-65, Type 1, Sheet 1, dated 2-1-65

Supplemental Specifications:
808, dated 7-14-65
811 " 3-29-65
825 " 4-22-65

EXCAVATION QUANTITY includes the removal of fill material between the surface of the proposed embankment and the bottom of the abutment.

PILES shall be driven to a minimum capacity of 35 tons per pile for the abutments and 40 tons per pile for the piers.

ESTIMATED QUANTITIES

Item	Total	Unit	DESCRIPTION	Super.	Abuts.	Piers	General		
503	1,098	Cu.Yds.	Unclassified excavation		835	263			
511	507	Cu.Yds.	Class "C" concrete, superstructure	507					
511	127	Cu.Yds.	Class "C" concrete, piers above footings			127			
511	191	Cu.Yds.	Class "E" concrete, abutments above footings		191				
511	260	Cu.Yds.	Class "E" concrete, footings		125	135			
509	203,346	Lbs.	Reinforcing Steel	124,866	22,075	56,405			
513	760,790	Lbs.	Structural Steel	760,790					
514	760,790	Lbs.	Field painting of structural steel	760,790					
519	1,158.64	Lin.Ft.	Railing(Type 1	1,058.31	100.33				
505	Lump	Sum	First Test Pile				Lump Sum		
507	4,000	Lin.Ft.	12" Cast-in-place reinforced concrete piles		1,500	2,500			
518	88	Lin.Ft.	6" Helical perforated CMP, 707.06 including specials		88				
518	68	Lin.Ft.	6" Helical CMP, 707.06 non-perforated		68				
518	20	Each	Scuppers, including supports	20					
518	87	Cu.Yds.	Porous backfill		87				
808	507	Each	Water-reducing, set-retarding admixture	507					
601	686	Sq.Yds.	Crushed aggregate slope protection				686		
825	2200	Sq.Yds.	Concrete Surface Treatment				2200		

Design Loading - CF(130)57
Concrete Class "C" - basic unit stress 1333 p.s.i.
Concrete Class "E" - basic unit stress 1133 p.s.i.
Structural Steel - ASTM A36 - basic unit stress 20,000 p.s.i.

Reinforcing Steel - ASTM A15, A16, A160, Deformed, Intermediate or Hard Grade. Basic unit stress 20,000 p.s.i. Except, spiral reinforcement may be plain, Structural Grade with basic unit stress of 18,000 p.s.i.

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CONSULTING ENGINEERS
BALTIMORE, MARYLAND

GENERAL PLAN AND ELEVATION, NOTES & ESTIMATED QUANTITIES

BRIDGE NO. SUM-271-0019
I.R. 271 UNDER SUMMIT CO. RD. NO. 47

SUMMIT CO. **STA. 418+65.18**

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
SHERMAN	BERGER	WALTER	PAHL	MUDD	6-18-65	

SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

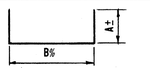
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

144
178

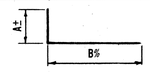
REINFORCING STEEL LIST

MARK	NO	LENGTH	WEIGHT	SHP
ABUTMENTS				
A501	74	6'-6"	502	B
A502	68	9'-1"	644	B
A503	6	5'-2"	32	B
A504	4	7'-1"	30	B
A505	44	11'-11"	547	B
A506	4	23'-0"	96	S
A507	1	22'-6"	23	B
A508	10	16'-6"	172	S
A509	1	3'-11"	4	S
A510	5	4'-4"	23	S
A511	1	4'-10"	5	B
A512	34	9'-11"	352	B
A513	34	10'-11"	387	B
A514	46	28'-2"	1351	S
A515	48	3'-10"	192	B
A516	6	28'-6"	178	S
A517	46	28'-1"	1347	B
A518	24	5'-0"	125	S
A519	7	13'-5"	98	S
A520	7	9'-9"	71	S
A521	13	14'-9"	200	S
A522	13	6'-6"	88	S
A523	7	21'-7"	158	S
A524	8	17'-11"	149	S
A525	1	14'-3"	15	S
A526	1	14'-9"	15	S
A527	1	11'-1"	12	S
A528	4	10'-3"	43	B
A529	1	20'-3"	21	S
A530	1	16'-7"	17	S
A531	2	7'-9"	16	S
A532	4	22'-10"	95	S
A533	4	14'-10"	62	S
A534	1	17'-0"	18	S
A535	1	8'-9"	9	S
A536	1	16'-0"	17	S
A537	1	7'-9"	8	S
A538	31	8'-0"	259	S
A539	46	8'-7"	412	S
A540	19	7'-8"	152	S
A541	1	11'-5"	12	B
A542	2	11'-11"	25	B
A543	1	12'-5"	13	B
A544	1	12'-11"	13	B
A545	1	13'-5"	14	B
A546	1	13'-11"	15	B
A547	1	14'-5"	15	B
A548	1	14'-11"	16	B
A549	1	15'-7"	16	B
A550	1	16'-1"	17	B
A551	1	16'-7"	17	B
A552	1	17'-1"	18	B
A553	1	17'-7"	18	B
A554	1	18'-1"	19	B
A555	1	18'-7"	19	B
A556	1	19'-1"	20	B
A557	1	8'-9"	9	B
A558	2	9'-11"	21	B
A559	2	10'-11"	23	B
A560	1	8'-11"	9	B
A561	14	8'-6"	124	S
A562	9	7'-11"	74	B
A563	8	17'-10"	149	S
A564	71	5'-7"	413	B
A565	71	3'-2"	235	B
A566	39	3'-6"	142	B
A567	36	5'-6"	207	B
A568	4	15'-6"	65	S
A569	4	11'-9"	49	S
A570	4	20'-0"	83	S
A571	10	5'-2"	54	S
A572	10	6'-9"	70	S
A573	5	12'-11"	67	B
A574	12	13'-7"	170	B
A575	7	13'-3"	97	B
A576	5	4'-1"	21	S
A577	5	4'-4"	23	S
A578	10	7'-7"	79	B
A579	20	19'-6"	407	S
A580	27	7'-8"	216	B
A581	27	5'-4"	150	B
A582	16	16'-11"	282	B
A601	68	14'-8"	1498	B
A602	104	24'-1"	3762	B
A603	6	7'-4"	66	B
A604	4	9'-0"	54	B
A605	6	8'-9"	79	B
A606	13	17'-0"	332	B
A607	16	10'-9"	258	B
A608	5	21'-8"	163	B
A609	6	10'-8"	96	B
A610	13	20'-10"	407	B
A611	16	9'-9"	234	B
A612	5	19'-6"	146	B
A801	24	30'-5"	1949	S
A802	4	28'-3"	302	B
A803	4	17'-9"	190	S
A804	12	11'-9"	376	S
A805	12	12'-6"	400	S
A806	4	16'-6"	176	S
A401	13	7'-8"	67	S
A402	14	7'-5"	69	S

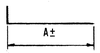
BENDING DIAGRAMS



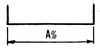
MARK	A±	B%
A502	1'-7"	6'-2"
A503	1'-7"	2'-3"
A504	1'-7"	4'-2"
A512	3'-0"	4'-2"
A513	3'-6"	4'-2"
A541 to A548	5'-3" to 7'-0" 3" Incr.	1'-2"
A549 to A556	7'-4" to 9'-1" 3" Incr.	1'-2"
A557	3'-11"	1'-2"
A558	4'-6"	1'-2"
A559	5'-0"	1'-2"
A560	4"-0"	1'-2"
A562	3'-6"	1'-2"
A573	6"-4"	6"
A574	6'-8"	6"
A575	6'-6"	6"
A604	2'-7"	4'-2"
A606	8'-1"	1'-2"
A608	10'-5"	1'-2"
A610	10'-0"	1'-2"
A612	9'-4"	1'-2"
P501	3'-4"	2'-8"
P502	3'-0"	2'-8"
P503	2'-8"	2'-8"
P910	2'-10"	2'-2"
P911	2'-10"	2'-7"
P912	2'-10"	2'-8"



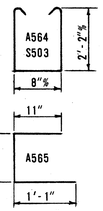
MARK	A±	B%
P901	4'-7"	16'-2"
P902	4'-7"	17'-2"
P903	4'-7"	17'-5"
P904	4'-7"	17'-6"
P906	3'-8"	16'-7"
P907	3'-8"	17'-7"
P908	3'-8"	17'-10"
P909	3'-8"	17'-11"
P1002	2'-5"	25'-1"
P1003	2'-2"	25'-4"
F1001	1'-0"	5'-8"
F1401	1'-5"	6'-9"

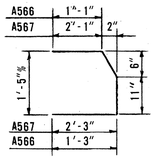


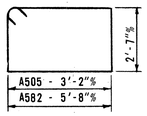
MARK	A±
A501	6'-0"
A507	22'-0"
A511	4'-4"
A517	27'-7"
A581	4'-10"
A605	8'-1"
A607	10'-1"
A609	10'-0"
A611	9'-1"

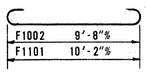


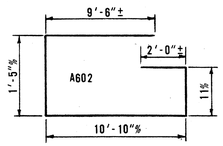
MARK	A%
A515	2'-10"
S501	1'-3"
S502	2'-6"

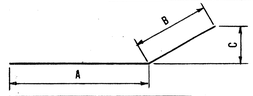




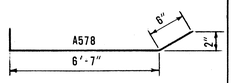


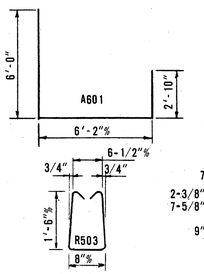


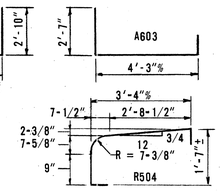


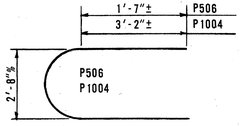


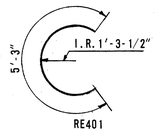
MARK	A	B	C
A528	8'-3"	2'-0"	6"
A580	7'-2"	6"	2"
A802	25'-6"	2'-9"	2'-4"











REINFORCING STEEL LIST

MARK	NO	LENGTH	WEIGHT	SHP.
PIERS				
P501	78	9'-1"	739	B
P502	78	8'-5"	685	B
P503	78	7'-9"	630	B
P504	6	31'-4"	196	S
P505	24	23'-0"	576	S
P506	21	7'-3"	159	B
P901	6	20'-6"	418	B
P902	6	21'-6"	439	B
P903	6	21'-9"	444	B
P904	3	21'-10"	223	B
P905	12	18'-0"	734	S
P906	6	20'-0"	408	B
P907	6	21'-0"	428	B
P908	6	21'-3"	434	B
P909	3	21'-4"	218	B
P910	4	7'-3"	99	B
P911	4	7'-8"	104	B
P912	2	7'-9"	53	B
P1001	12	24'-0"	1239	S
P1002	12	27'-2"	1403	B
P1003	12	27'-2"	1403	B
P1004	6	10'-6"	271	B
P1005	64	18'-3"	5026	S
P1006	64	22'-10"	6288	S
P1401	64	22'-11"	11220	S
F1001	128	6'-4"	3488	B
F1002	128	12'-6"	6885	B
F1003	80	13'-0"	4475	B
F1401	64	7'-9"	3794	B

MARK	NO	LENGTH	WEIGHT	SHP.
SUPERSTRUCTURE				
S501	1616	2'-3"	3792	B
S502	808	3'-6"	2950	B
S503	808	5'-7"	4705	B
S601	579	29'-8"	25800	S
S602	816	34'-9"	42,591	S
S603	57	45'-0"	3,853	S
S604	4	28'-0"	168	S
S605	20	5'-9"	173	S
S606 to S649	2 Ser. of 43	6"-1" to 28'-5"	2,228	S
S701	579	29'-8"	35,110	S
S702	4	28'-0"	229	S
S703	20	5'-9"	235	S
S704 to S747	2 Ser. of 43	6"-1" to 28'-5"	3.032	S

MARK	NO	LENGTH	WEIGHT	SHP.
PARAPET RAILING				
R501	16	17'-9"	*	S
R502	16	4'-8"	*	S
R503	12	4'-2"	*	B
R504	8	5'-4"	*	B
R505	264	15'-5"	*	S
R506	4	8'-2"	*	S
R507	4	19'-2"	*	S

* Parapet railing bars are included with S-14 for payment.

MARK	NO	LENGTH	WEIGHT	SHP.
REPLACEMENT BARS				
RE401	1	5'-3"	–	B
RE501	2	5'-7"	–	S
RE601	5	5'-11"	–	S
RE701	2	6"-2"	–	S
RE801	1	6'-6"	–	S
RE901	1	6'-10"	–	S
RE1001	2	7'-2"	–	S
RE1401	1	8'-3"	–	S

SPIRAL BARS

MARK	NO.	CORE DIA. % SPIRAL	LENGTH	PITCH	NO. OF TURNS	WEIGHT
SP401	4	32"	14'-6"	4-1/2"	42	1091
SP402	4	32"	19'-2"	4-1/2"	54	1420
SP403	4	32"	19'-1"	4-1/2"	54	1414

REINFORCING BARS NO. 14S (P1401 & F1401) shall be of intermediate or hard grade conforming to ASTM-A-408. (Basic unit stress 20,000 p.s.i.).

SPIRAL REINFORCING BARS: The "Length" shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap. The "No. of Turns" shown is the "Length" divided by the pitch, plus 3 turns (total number of closed coils), expresses as the nearest whole number.

Spiral reinforcing bars shall not have deformations but shall in other respects conform to Item 509. 1-1/2 closed coils shall be provided at the ends of each spiral unit. 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 number of pounds of these spacers, based on 0.68 lb. per lin. ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

BAR SIZE is indicated in the bar mark. The first digit where three digits are used, and the first two digits where four are used indicate the bar size number. For example, A701 is a No. 7 size bar and P1002.is a No. 10 size bar.

⊕ Cost of field bending and cutting to be included with Item 509 for payment.

J.E GREINER COMPANY
CONSULTING ENGINEERS
BALTIMORE, MARYLAND

REINFORCING STEEL LIST
BRIDGE NO. SUM-271-0019
I.R.*271 UNDER SUMMIT CO. RD. NO. 47

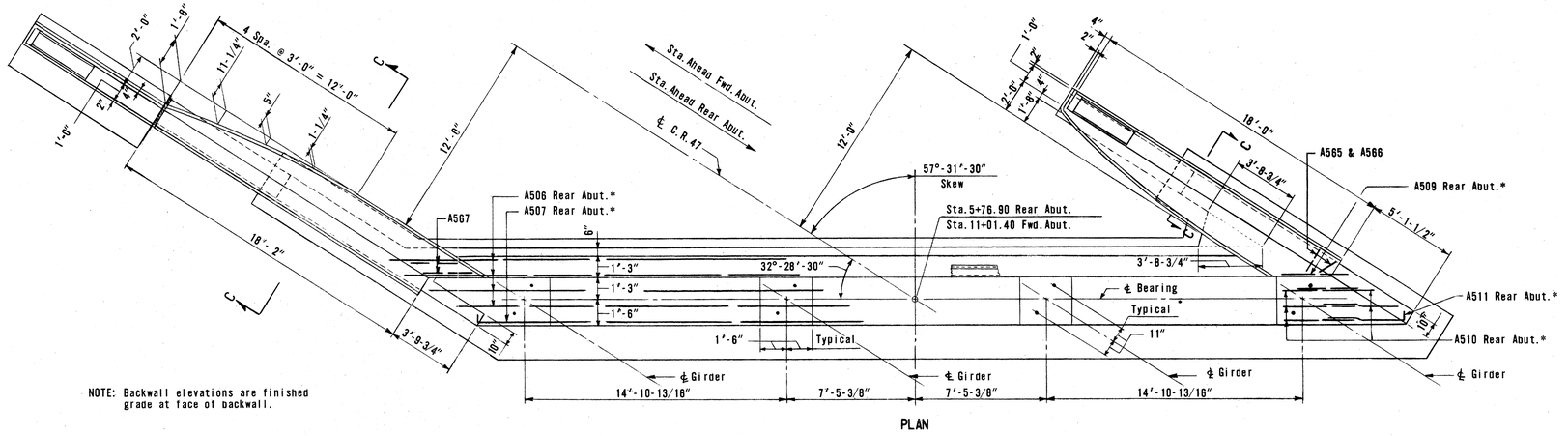
SUMMIT CO. STA. 418+65.18

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
SHERMAN	WALTER	WALTER	PAHL	MUDD	6-18-65	

SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

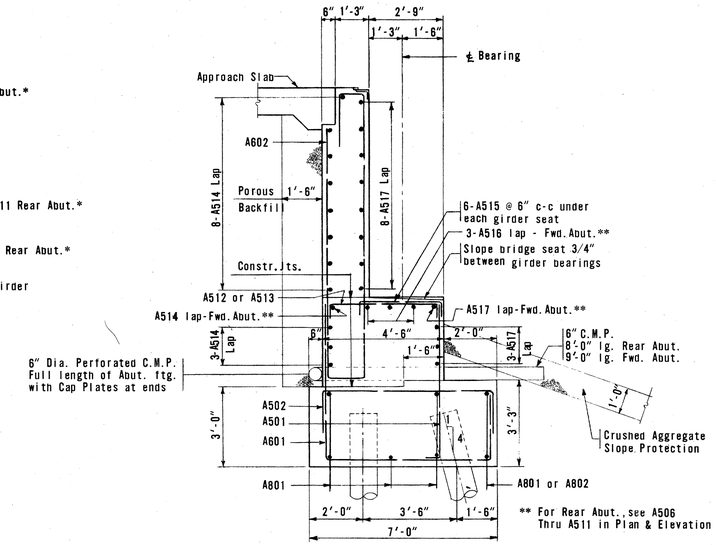
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

145
178



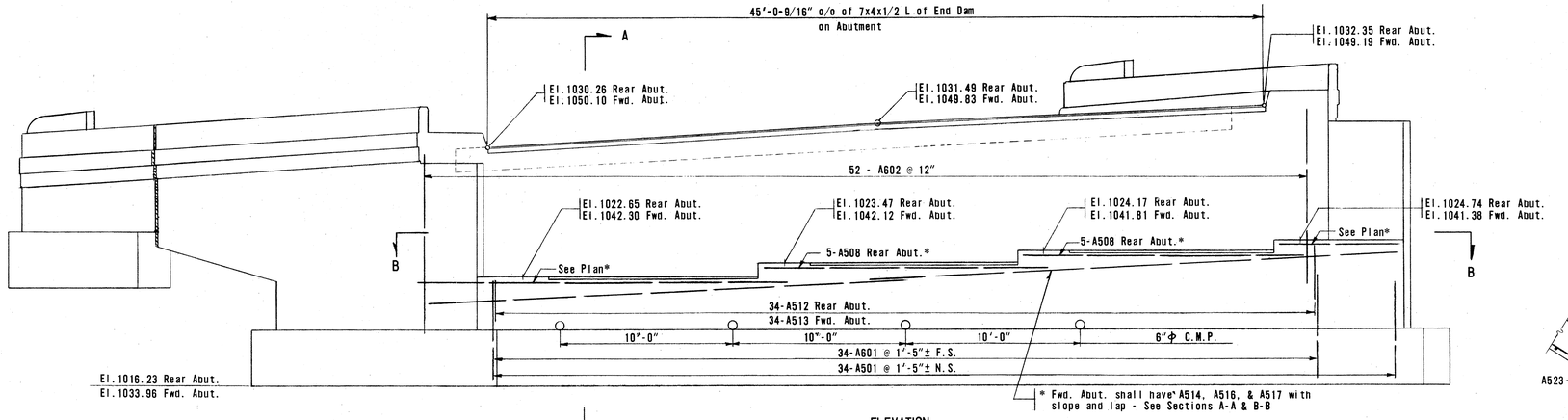
NOTE: Backwall elevations are finished grade at face of backwall.

PLAN

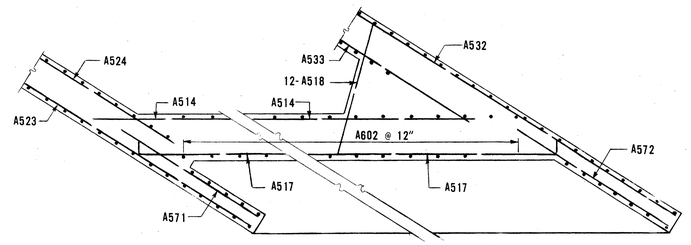


** For Rear Abut., see A506 Thru A511 in Plan & Elevation

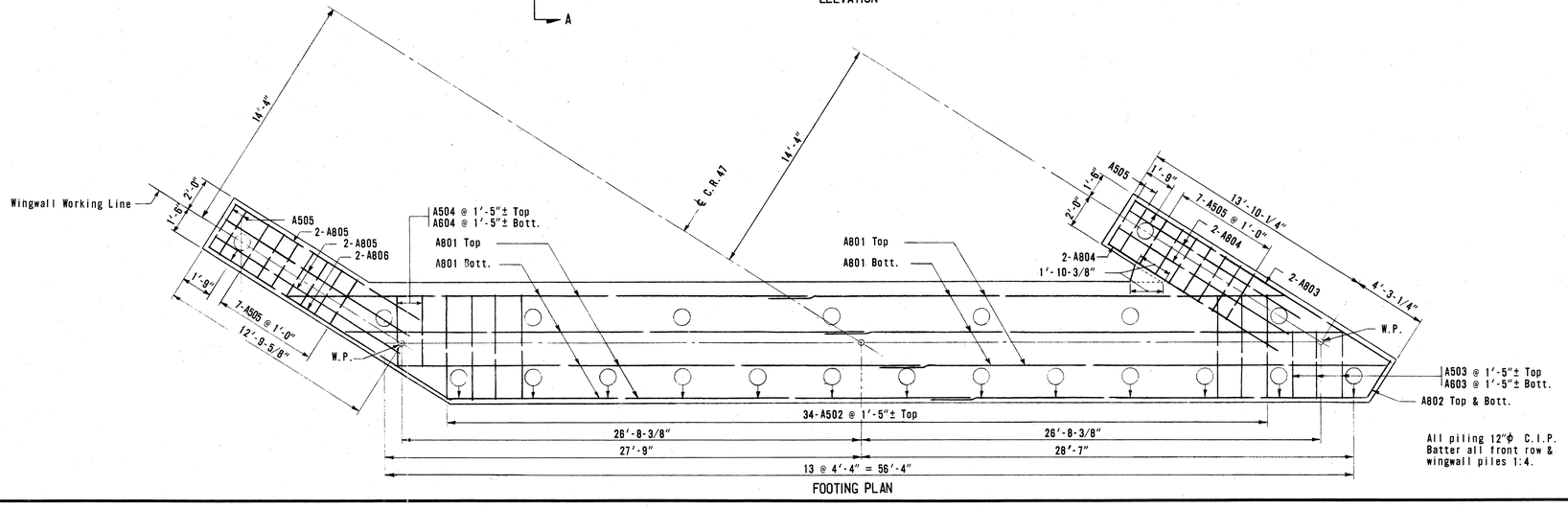
SECTION A-A



ELEVATION



SECTION B-B
(Fwd. Abut. Shown)



FOOTING PLAN

All piling 12"ϕ C.I.P. Batter all front row & wingwall piles 1:4.

For abutment notes, see Sheet No. 147.

J.E GREINER COMPANY
CONSULTING ENGINEERS
BALTIMORE, MARYLAND

ABUTMENT DETAILS-I
BRIDGE NO. SUM-271-0019
I.R. 271 UNDER SUMMIT CO. RD. NO. 47

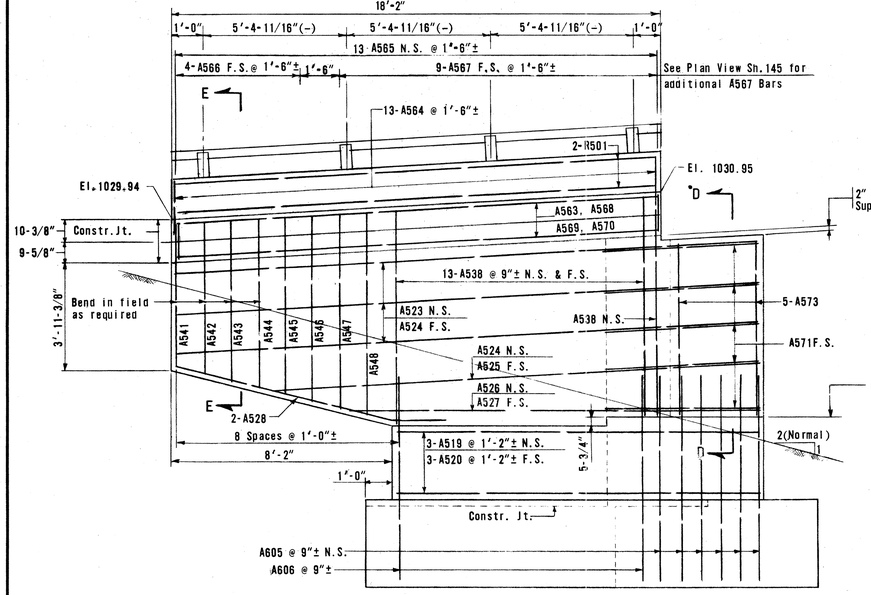
SUMMIT CO. STA. 418+65.18

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
ROBINSON	GREIMANN	GREIMANN	KOHLER	MUDD	6-18-65	

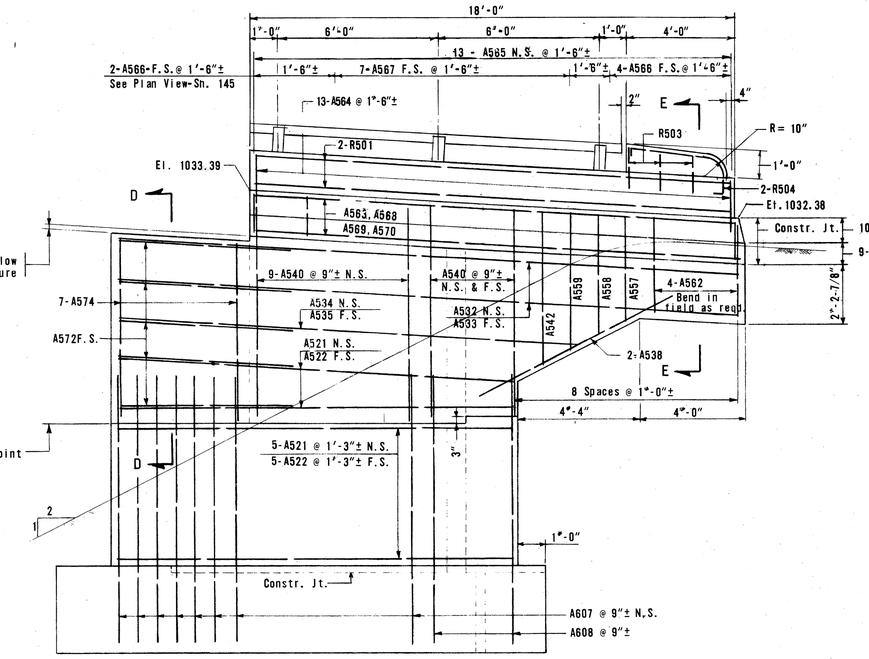
SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

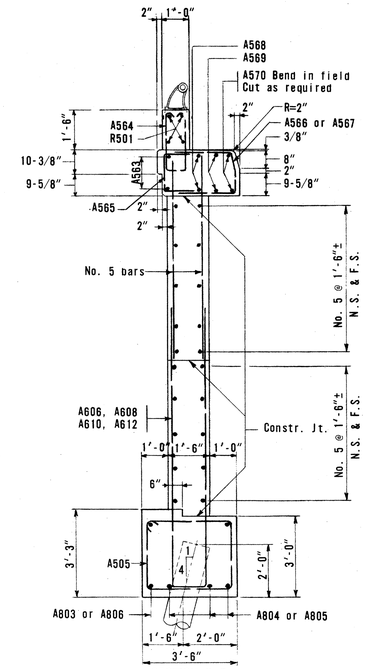
146
178



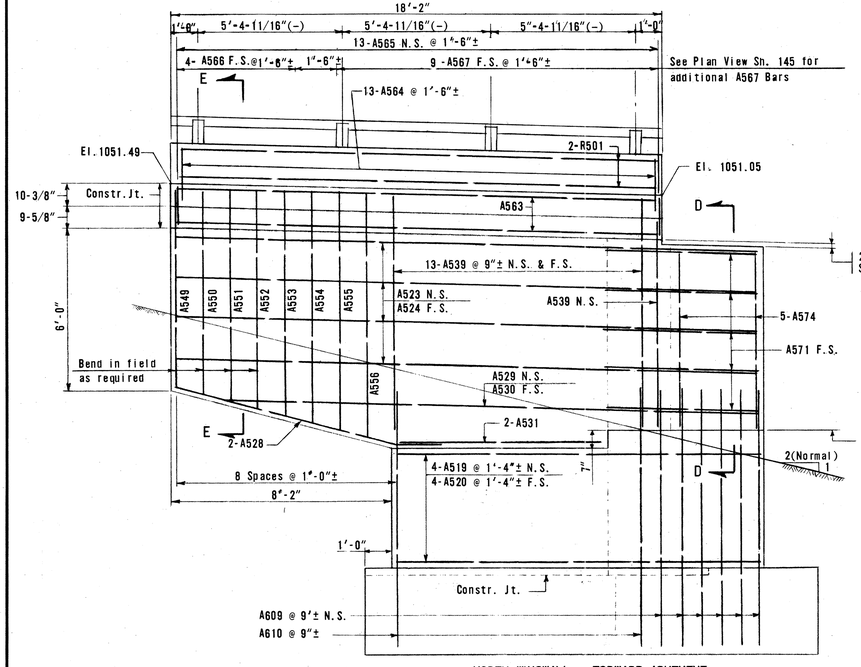
SOUTH WINGWALL - REAR ABUTMENT



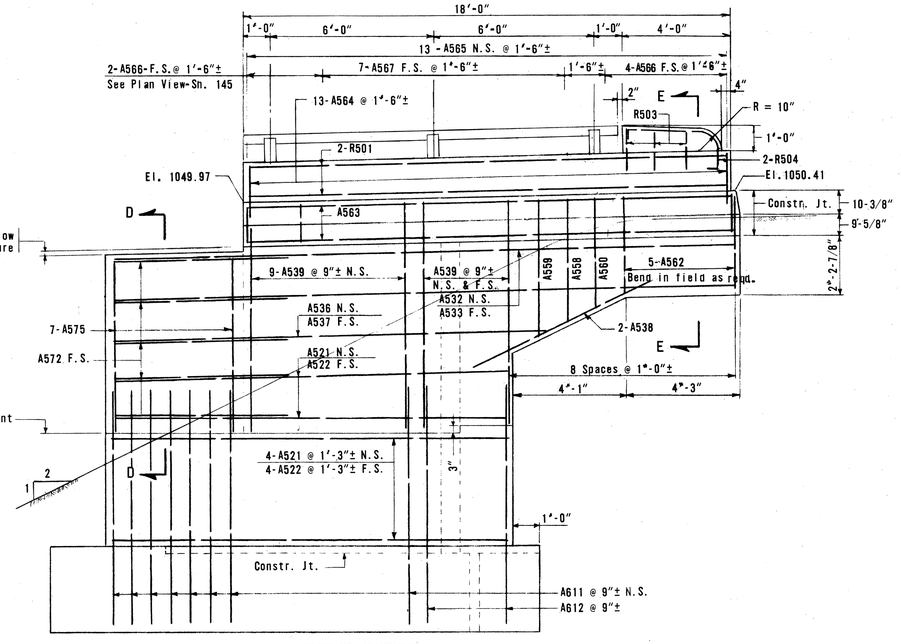
NORTH WINGWALL - REAR ABUTMENT



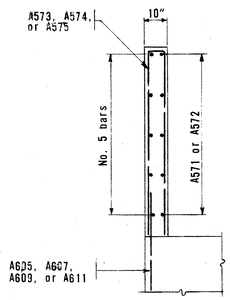
SECTION C-C



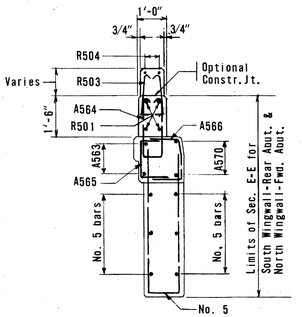
NORTH WINGWALL - FORWARD ABUTMENT



SOUTH WINGWALL - FORWARD ABUTMENT



SECTION D-D



SECTION E-E
NORTH WINGWALL-REAR ABUTMENT
SOUTH WINGWALL-FORWARD ABUTMENT

For Abutment notes, see Sheet No. 147

J.E GREINER COMPANY
CONSULTING ENGINEERS
BALTIMORE, MARYLAND

ABUTMENT DETAILS-II
BRIDGE NO. SUM-271-0019
I.R. 271 UNDER SUMMIT CO. RD. NO. 47

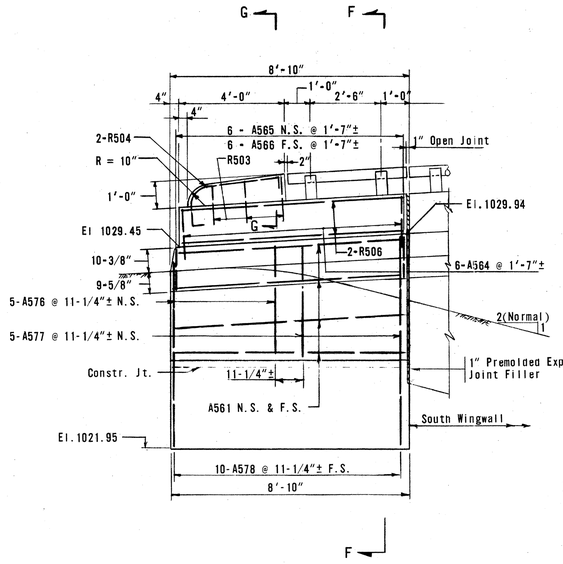
SUMMIT CO. STA. 418+65.18

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
ROBINSON	GREIMANN	GREIMANN	KOHLER	MUDD	6-18-65	

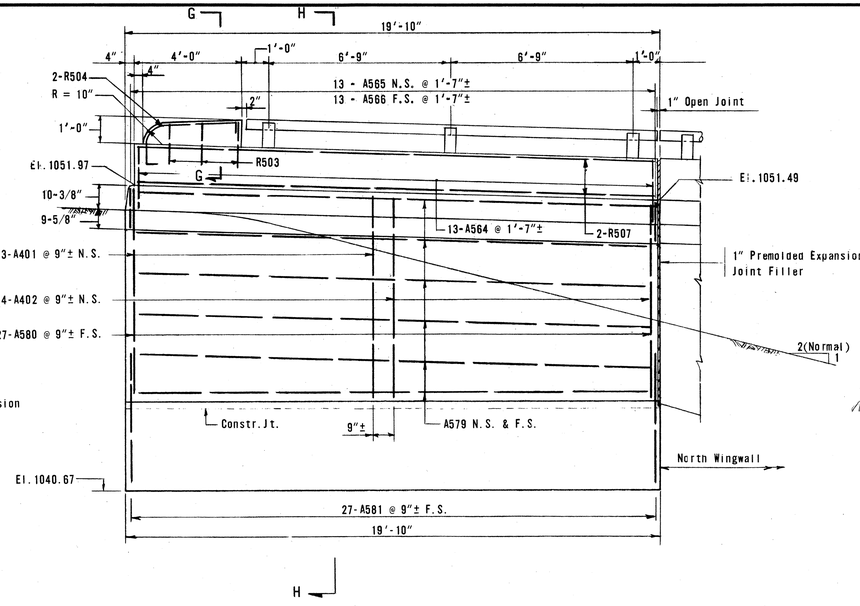
SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

147
178



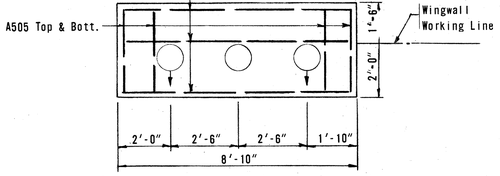
RETAINING WALL - REAR ABUTMENT ELEVATION



RETAINING WALL - FORWARD ABUTMENT ELEVATION

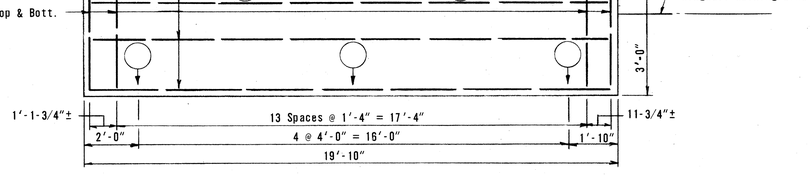
Notes: gray sponge rubber preformed expansion joint filler meeting the requirements of Sec. AASHO M153 shall be used in the 1'-6" parapet, and shall be included with Item 507 for payment.

1" Preformed expansion joint filler from top of curb to bottom of abutment wingwalls shall meet the requirements of AASHO M153 and shall be included with Item 511 "Class E Concrete, Abutments above Footings" for payment.

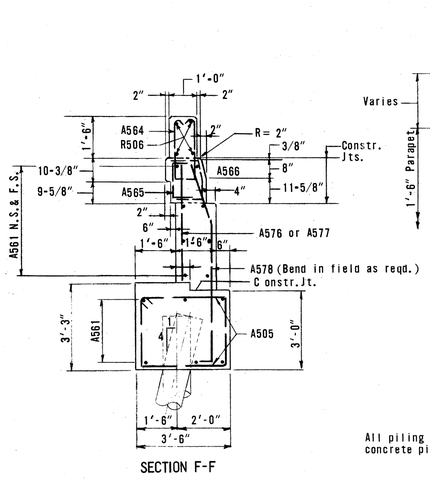


RETAINING WALL - REAR ABUTMENT FOOTING PLAN

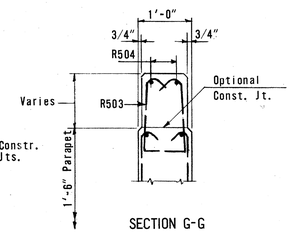
All piling 12" C.I.P. reinforced concrete piles.



RETAINING WALL - FORWARD ABUTMENT FOOTING PLAN

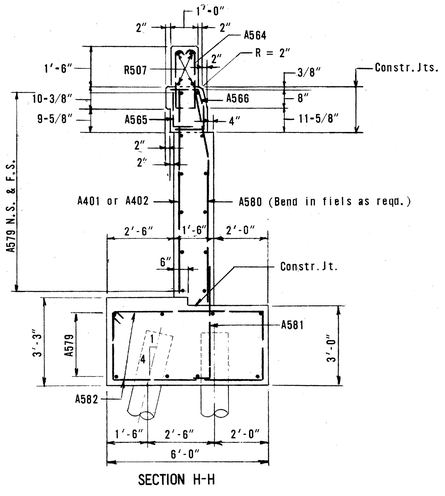


SECTION F-F



SECTION G-G

All piling 12"ϕ C.I.P. reinforced concrete piles.



SECTION H-H

CLEARANCE of reinforcing steel from face of concrete shall be 3" in bottom of footing, 1-1/2" in parapet and safety curb and 2" elsewhere.

POROUS BACKFILL shall extend upward to the approach slab and outward to the wingwalls. Excavation therefore, in excess of that required for the construction of the abutment, shall be considered as paid for in the bid price per cu.yd. paid for porous backfill.

PROCEDURE: 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 200 feet back of the rear abutment, after which excavation shall be made for both the abutments and piles driven.

Abutment backwalls above the bridge seat shall not be placed until all steel is erected. Abutment backwalls shall be completed prior to placing bridge deck slab.

BRIDGE SEAT REINFORCING: Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat so as to avoid interference with the drilling of anchor rod holes.

CONCRETE shall be Class E.

LEGEND:
N.S. - Near Side
F.S. - Far Side

For details of roadway end finish see Standard Drawing SD-1-63, Sheets 2 and 4.

J.E GREINER COMPANY
CONSULTING ENGINEERS
BALTIMORE, MARYLAND

ABUTMENT DETAILS-III

BRIDGE NO. SUM-271-0019
I.R. 271 UNDER SUMMIT CO. RD. NO. 47

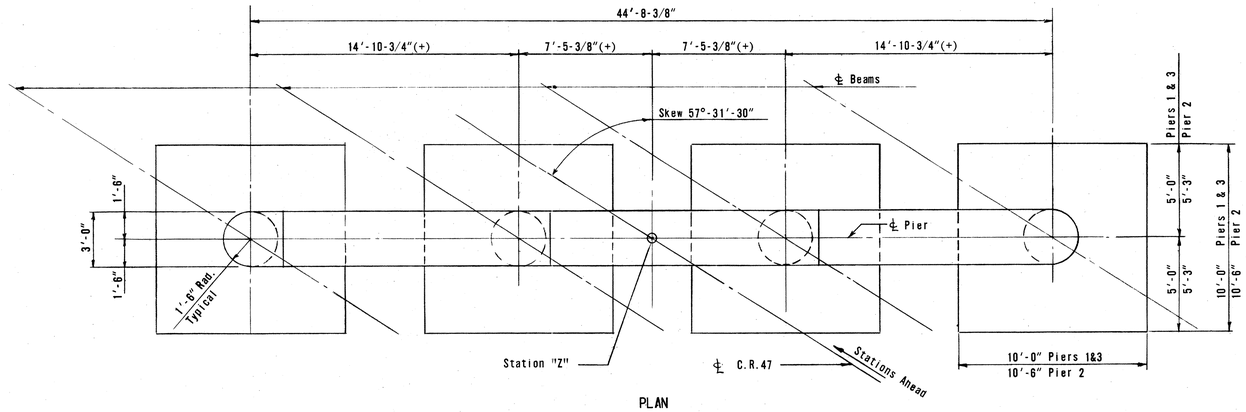
SUMMIT CO. STA. 418+65.18

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
ROBINSON	GREIMANN	GREIMANN	KOHLER	MUDD	6-18-65	

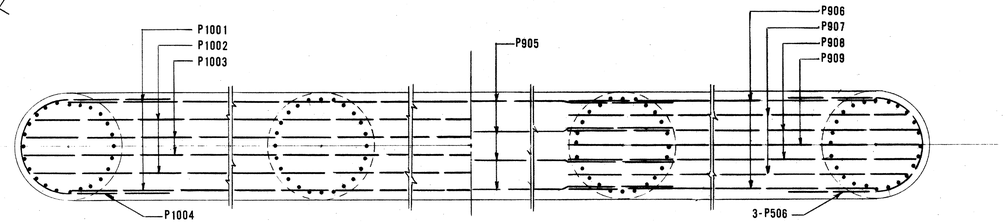
SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

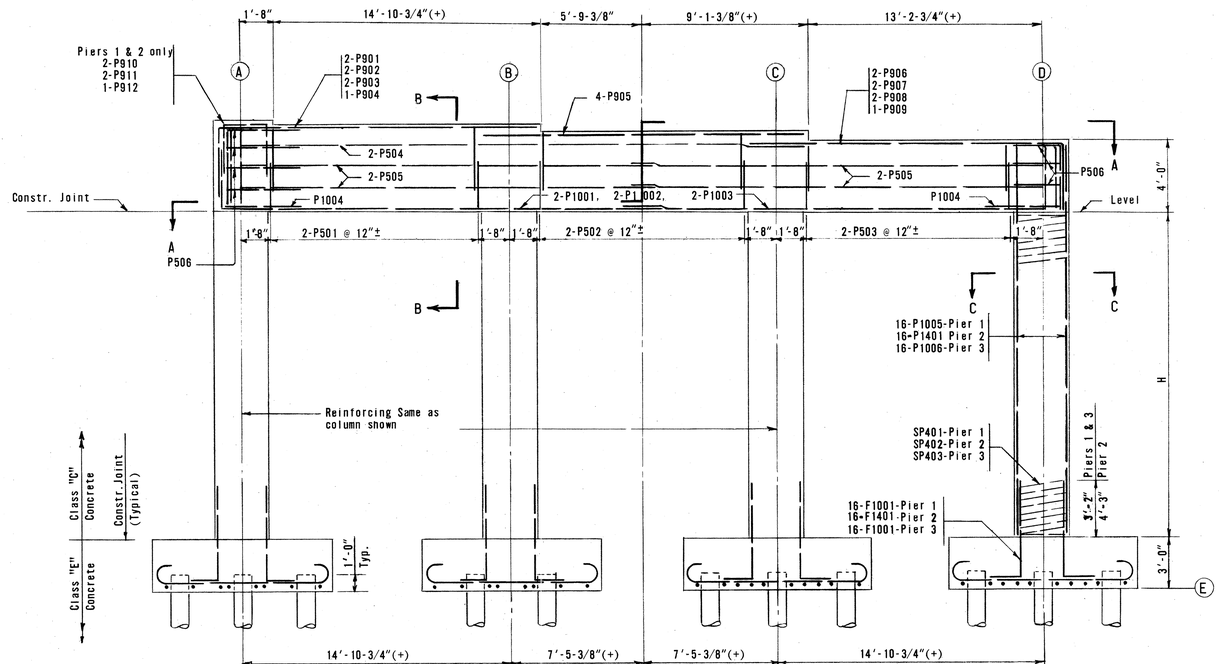
148
178



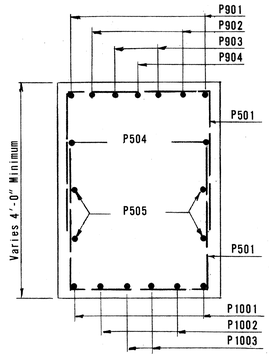
PLAN



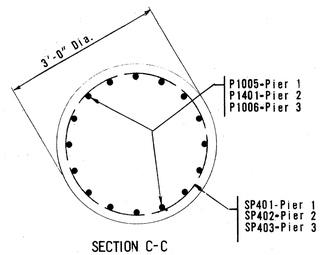
SECTION A-A



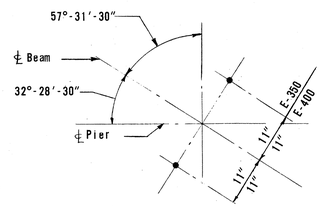
ELEVATION



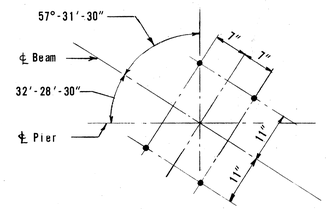
SECTION B-B



SECTION C-C

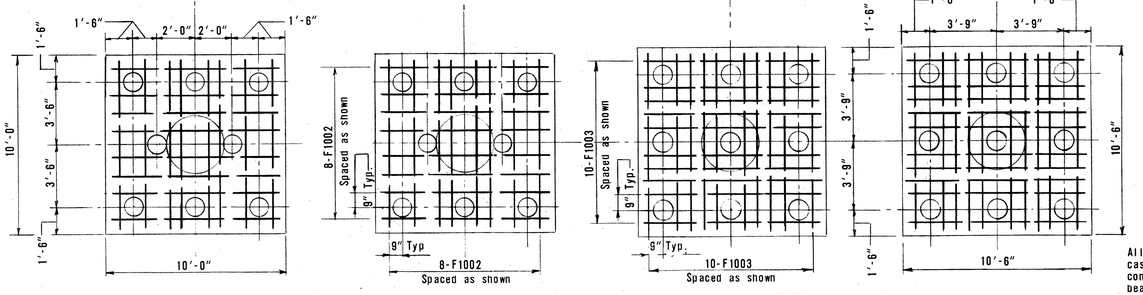


LOCATION OF ANCHOR RODS
EXPANSION BEARING E-350 (PIER 1)
EXPANSION BEARING E-400 (PIER 3)



LOCATION OF ANCHOR RODS
FIXED BEARING F-400
PIER 2

	STATION "Z"	ELEVATIONS A	B	C	D	E	DIMENSION H
Pier 1	6+75.90	1029.65	1029.19	1028.59	1027.86	1006.30	14'-6-3/4"
Pier 2	8+27.90	1034.97	1034.71	1034.31	1033.77	1007.60	19'-2-1/16"
Pier 3	9+79.90	1039.21	1039.03	1038.73	1038.30	1012.20	19'-1-3/16"



FOOTING PLAN - PIERS 1 & 3

FOOTING PLAN - PIER 2

All piling for all piers - 12" ϕ cast-in-place reinforced concrete driven to a minimum bearing capacity of 40 tons/pile.

CLEARANCE of reinforcing steel from face of concrete shall be 3" in bottom of footings and 2" elsewhere.

For details of Fixed and Sliding Bearings see Std. Dwg. No. FSB-1-62.

CONCRETE shall be Class E in Footings and Class C above Footings.

BRIDGE SEAT REINFORCING: Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat so as to avoid interference with the drilling of anchor rod holes.

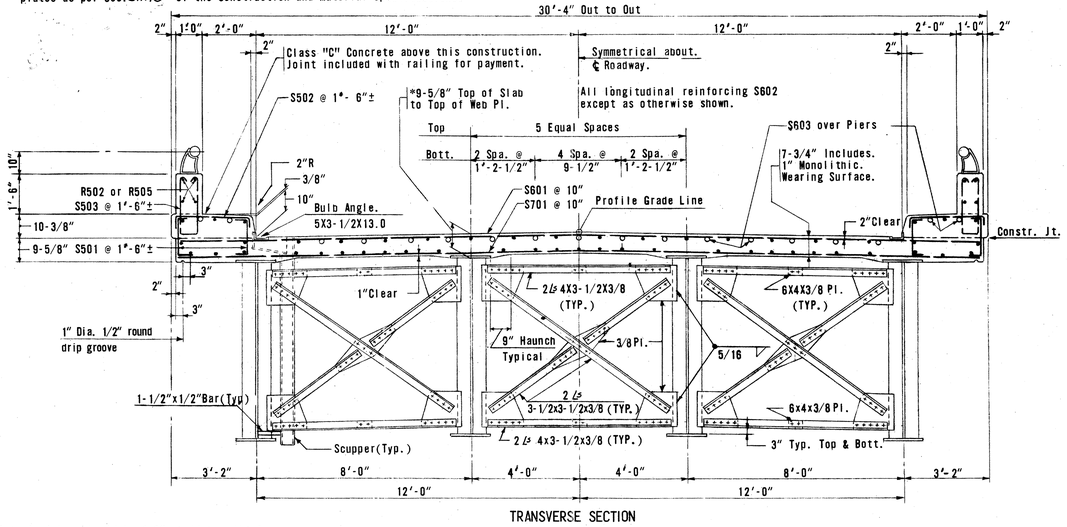
J.E GREINER COMPANY
CONSULTING ENGINEERS
BALTIMORE, MARYLAND

PIER DETAILS
BRIDGE NO. SUM 271-0019
I.R. 271 UNDER SUMMIT CO. RD. NO. 47

SUMMIT CO. STA. 418+65.18

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
WEISER	RYNAR-ZEWSKI	RYNAR-ZEWSKI	KOHLER	MUDD	6-18-65	

* This is the nominal dimension. The quantity of deck concrete to be paid for shall be based upon this dimension, even though deviation from it may be necessary because the top flange of the girder may not have the exact camber or conformation required to place it parallel to the finished grade. Deduction shall be made for volume of encased steel plates as per Sec.511.19 of the Construction and Material Specifications.



TRANSVERSE SECTION

A typical haunch width of 9" shall be used for computing quantity of concrete. However, the haunch width may vary between 6" and 12" provided that the slope shall be not more than 1:4 for a haunch less than 9" in width.

SUPERSTRUCTURE NOTES

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 shall be placed in sections, between transverse construction joints which are parallel to transverse reinforcing steel and are located near the field splices of any span.

MACHINE FINISH: At the Contractor's option, the concrete bridge deck may be finished by the use of a finishing machine.

For details of end crossframes, roadway end-finish, beam cutoff at backwall, and welded butt joint in end finish angles at centerline of roadway, see Standard Drawing SD-1-63, Sheet 2.

For details of scuppers, curb plates, and gutter supports, see Standard Drawing SD-1-63, Sheets 3 & 4.

For details of fixed and sliding bearings see Standard Drawing FSB-1-62.

For details of aluminum railing see Standard Drawing BR-1-65 Type 1.

For Scupper spacing see Sheet No. 143

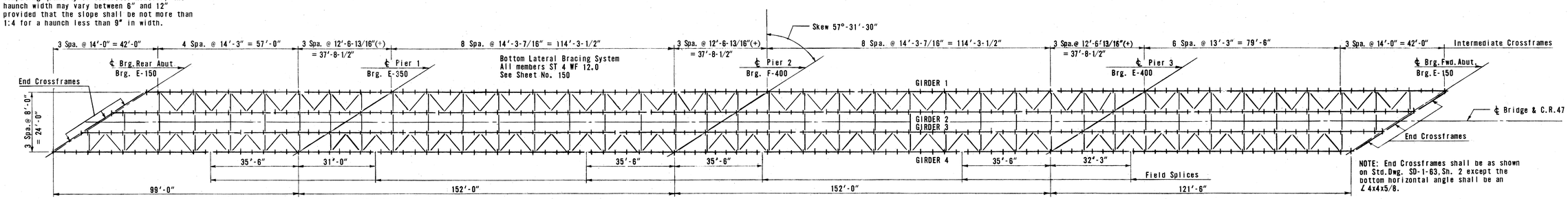
REINFORCING STEEL shall be 1-1/2" clear of surfaces in parapets and safety curbs. Place transverse reinforcing normal to center line of roadway.

INTERMEDIATE STIFFENERS of welded built-up girders shall have contact bearing with the compression flange, but may have a clearance of not more than 1/8 inch from the tension flange. In shop painting, care shall be taken to make certain that paint is forced through from one side to the other of the 1/8" opening.

CROSSFRAMES shall be erected with temporary 3/4" dia. bolts with 1" dia. holes and brought to a snug tight fit. After the deck has been placed and cured, the temporary bolts shall be removed, the holes reamed, and 7/8" dia. H.S. bolts installed to a snug tight fit. After all H.S. bolts are installed the bolts shall be tightened completely by calibrated wrenches or by the turn-of nut method. The cost of furnishing installing and removing the 3/4" dia. temporary bolts and the reaming of the holes shall be included in the Contract unit price for Structural Steel.

1" Dia. High Strength bolts shall be used for all Field Splices.

PROCEDURE The Contractor shall submit to the Director for approval, 3 prints showing his proposed erection procedure for plate girders.

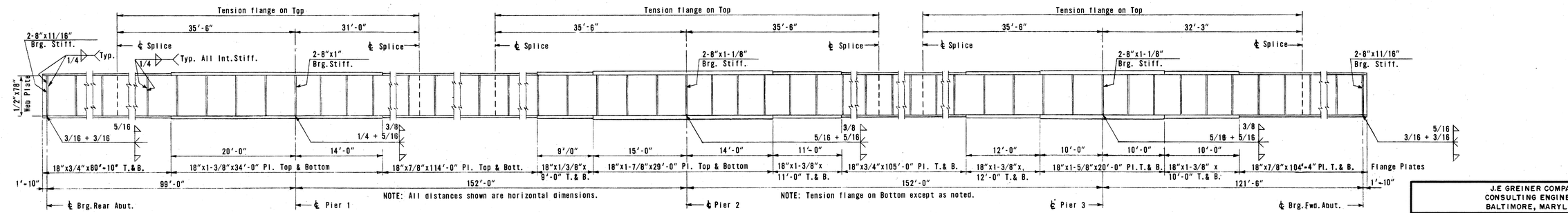


STEEL FRAMING PLAN

NOTE: End Crossframes shall be as shown on Std.Dwg. SD-1-63,Sh. 2 except the bottom horizontal angle shall be an ∠ 4x4x5/8.

NOTE: Girder web plates may be shop spliced as required by lengths of plates obtainable. Location of shop splices shall be submitted to the Director for approval.

All Intermediate Stiffeners are 6"x3/8" Pls. both sides of Web Pl. placed at each Crossframe location and two stiffeners equally spaced between each Crossframe as shown. Move stiffener to clear field splices when necessary.



NOTE: All distances shown are horizontal dimensions.

NOTE: Tension flange on Bottom except as noted.

GIRDER ELEVATION

Trim ends of girders as required to maintain 3" clear between girder and face of abutment backwall.

Butt welds in girder flanges and webs shall be examined in accordance with the provisions of Supplemental Specification 811

J.E GREINER COMPANY
CONSULTING ENGINEERS
BALTIMORE, MARYLAND

SUPERSTRUCTURE DETAILS-I

BRIDGE NO. SUM-271-0019
I.R.*271 UNDER SUMMIT CO. RD. NO. 47

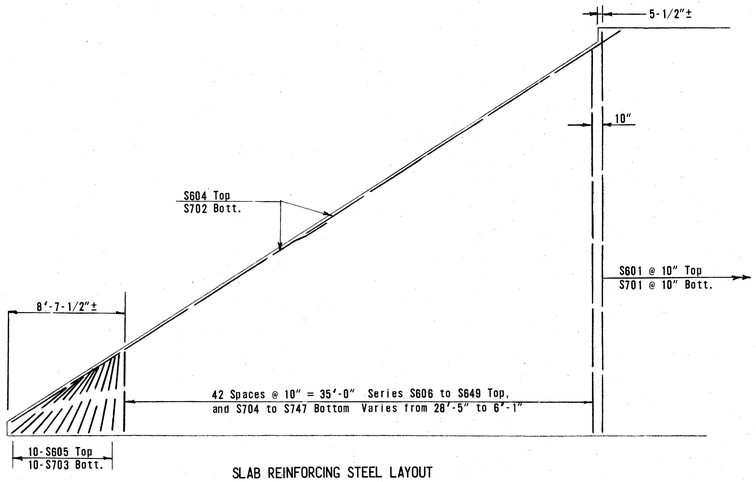
SUMMIT CO. STA. 418+65.18

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
POLDEMANN	ALKEMA	ALKEMA	WEISER	MUDD	6-18-65	

SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

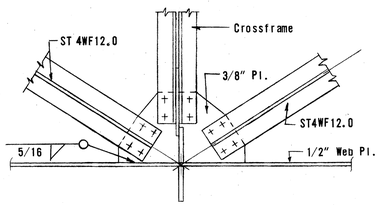
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14).224	

150
178

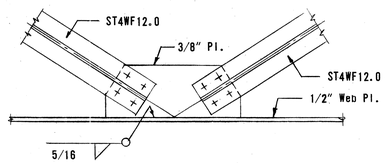


SLAB REINFORCING STEEL LAYOUT

NOTE: All Bolts for Lateral Bracing shall be 7/8" dia.H.S.Bolts.

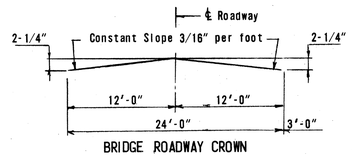


EXTERIOR GIRDER



INTERIOR GIRDER

TYPICAL LATERAL BRACING DETAILS



BRIDGE ROADWAY CROWN

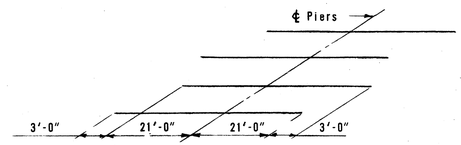
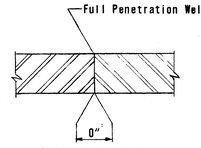
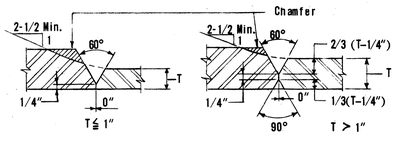


DIAGRAM SHOWING STAGGER OF S603 BARS OVER PIERS

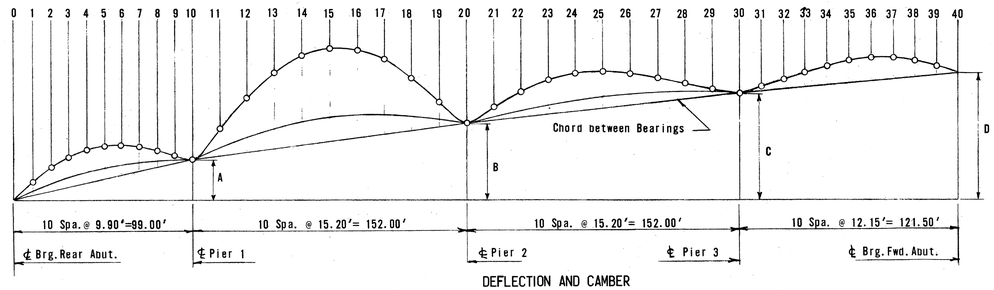


SHOP WELD SPLICE



TYPICAL FLANGE SHOP SPLICES

All of full penetration welds shall be back-gouged and welded after welding far side. Butt welds on beam and girder flange and web plates shall be ground flush, the finish grinding being parallel to the direction of stress.



DEFLECTION AND CAMBER

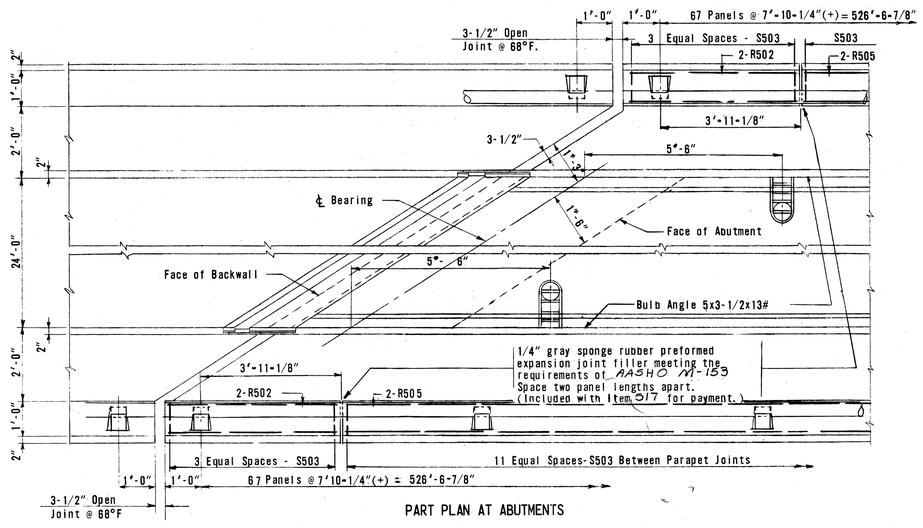
	A	B	C	D
Girder 1	5.024	10.762	14.610	17.569
Girder 2	5.140	11.075	15.001	17.960
Girder 3	5.238	11.372	15.392	18.350
Girder 4	5.321	11.653	15.783	18.741

NOTE: ABOVE DIMENSIONS ARE IN FEET.

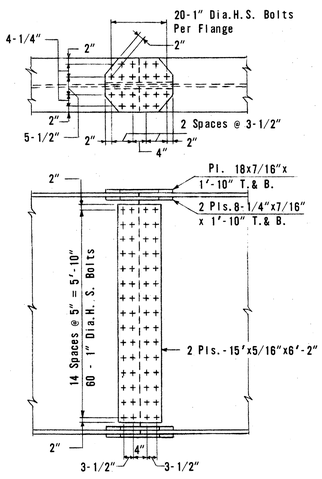
		SPAN 1										SPAN 2										SPAN 3										SPAN 4								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Deflect. due to weight of Steel - All Girders		0.03	0.05	0.05	0.05	0.04	0.02	0	-.02	-.02		0.07	0.17	0.26	0.32	0.34	0.30	0.23	0.13	0.04		0.01	0.07	0.15	0.21	0.24	0.22	0.17	0.10	0.03		0.02	0.07	0.14	0.20	0.24	0.25	0.23	0.17	0.09
Deflect. due to remaining Dead Load - All Girders		0.14	0.25	0.31	0.32	0.27	0.18	0.08	-.01	-.05		0.23	0.58	0.95	1.19	1.26	1.13	0.84	0.48	0.15		0.06	0.29	0.58	0.82	0.92	0.86	0.64	0.35	0.10		0.10	0.31	0.58	0.82	0.98	1.03	0.94	0.72	0.39
Vert. Curve Adjust.- Girder 1		0.54	0.97	1.27	1.46	1.52	1.46	1.28	0.97	0.55		1.29	2.30	3.02	3.45	3.59	3.45	3.02	2.30	1.29		0.69	1.09	1.20	1.05	0.88	0.70	0.53	0.35	0.18										
Girder 2		0.42	0.84	1.16	1.36	1.44	1.39	1.23	0.94	0.53												0.83	1.38	1.63	1.60	1.35	1.08	0.81	0.54	0.27										
Girder 3		0.30	0.60	0.90	1.14	1.26	1.25	1.12	0.87	0.49				SAME	FOR	ALL	GIRDERS					0.96	1.63	2.01	2.10	1.91	1.53	1.15	0.76	0.38		NO VERT. CURVE ADJUST.								
Girder 4		0.20	0.40	0.61	0.81	0.98	1.03	0.95	0.76	0.44												1.06	1.84	2.32	2.52	2.43	2.06	1.54	1.03	0.51										
Req. Shop Camber - Girder 1		0.71	1.27	1.63	1.83	1.83	1.66	1.36	0.94	0.48		1.59	3.05	4.23	4.96	5.19	4.88	4.19	2.91	1.48		0.76	1.45	1.93	2.08	2.04	1.78	1.34	0.80	0.31		0.12	0.38	0.72	1.02	1.22	1.28	1.17	0.89	0.48
Girder 2		0.59	1.14	1.52	1.73	1.75	1.59	1.31	0.91	0.46												0.90	1.74	2.36	2.63	2.51	2.16	1.62	0.99	0.40										
Girder 3		0.47	0.90	1.26	1.51	1.57	1.45	1.20	0.84	0.42				SAME	FOR	ALL	GIRDERS					1.03	1.99	2.74	3.13	3.07	2.61	1.96	1.21	0.51		SAME FOR ALL GIRDERS								
Girder 4		0.37	0.70	0.97	1.18	1.29	1.23	1.03	0.73	0.37												1.13	2.20	3.05	3.55	3.59	3.14	2.35	1.48	0.64										

PIER 1 | PIER 2 | PIER 3

NOTE: ABOVE DIMENSIONS ARE IN INCHES



PART PLAN AT ABUTMENTS



TYPICAL FIELD SPLICE DETAIL

J.E GREINER COMPANY
CONSULTING ENGINEERS
BALTIMORE, MARYLAND

SUPERSTRUCTURE DETAILS-II
BRIDGE NO. SUM-271-0019
I.R. 271 UNDER SUMMIT CO. RD. NO. 47

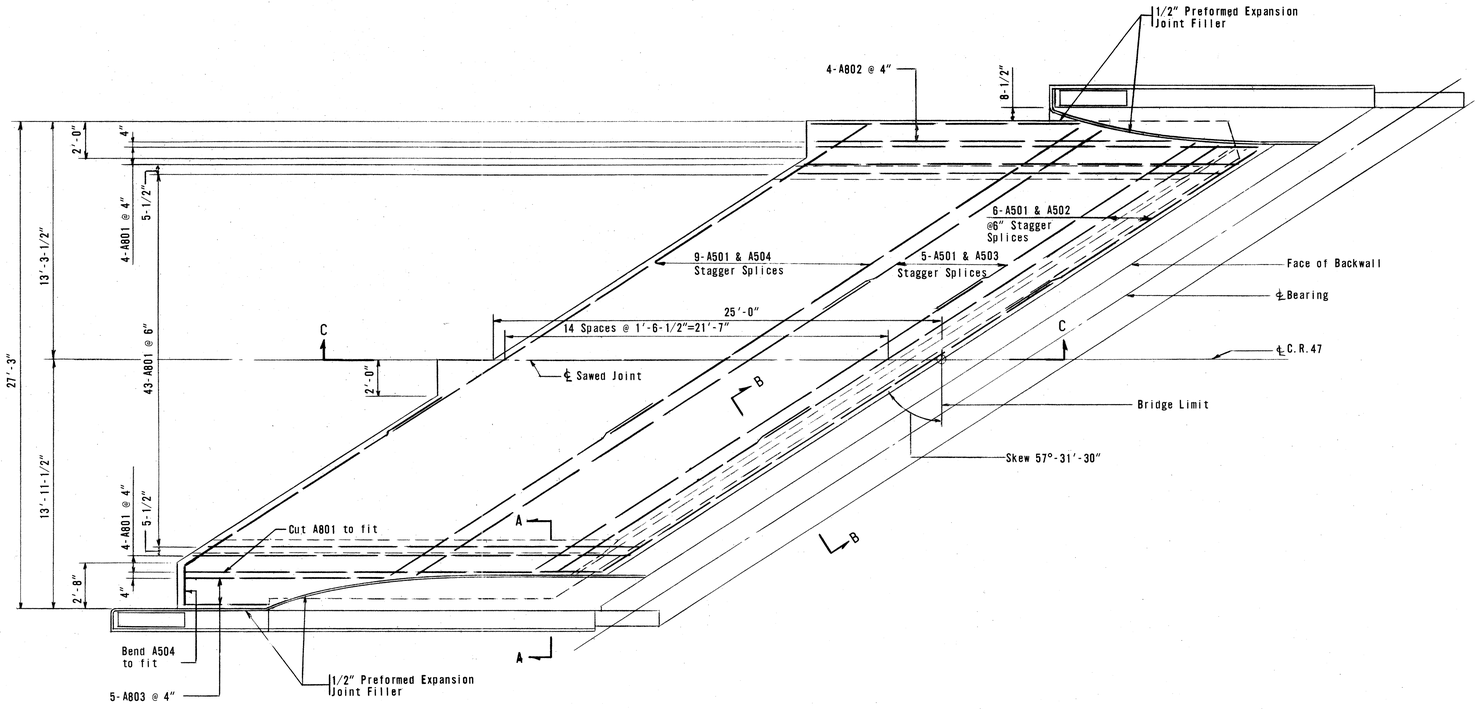
SUMMIT CO. STA. 418+65.18

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
SHERMAN	ALKEMA	ALKEMA	PAHL	MUDD	6-18-65	

SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(114)224	

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REINFORCING STEEL LIST				
MARK	NO.	LENGTH	WEIGHT	SHP.
A801	102	25'-7"	6967	B
A802	2 Series of 4 Bars 1'-3"Incr.	15'-0" to 18'-9"	360	S
A803	2 Series of 5 Bars 1'-3"Incr.	4'-6" to 9'-6"	187	S
A501	40	30'-7"	1252	S
A502	12	15'-7"	195	S
A503	10	17'-3"	180	S
A504	18	21'-8"	407	S

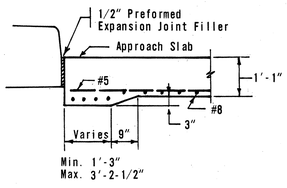
Quantities are for two (2) Approach Slabs.

NOTES:
1/2" Preformed Expansion Joint Filler shall be included in Item 611 "Reinforced Concrete Approach Slab" for payment.

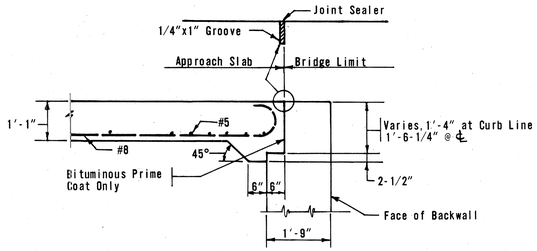
Bar Size is indicated in the Bar Mark. The first digit indicates the Bar Size Number. For example: A801 is a No. 8 Bar Size.

Work this sheet with Standard Drawing No. AS-1-54 (Revised 8-10-65)

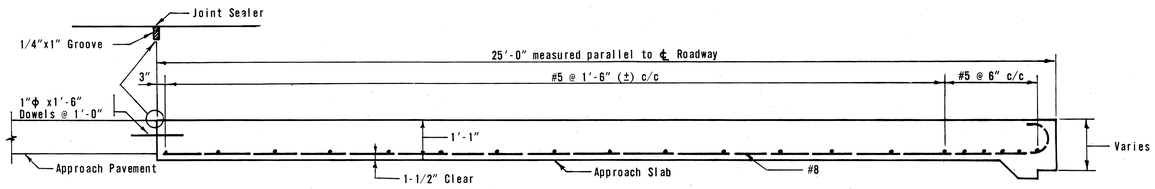
Concrete in Approach Slabs shall be Class C.



SECTION A-A



SECTION B-B



SECTION C-C

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BALTIMORE, MARYLAND

APPROACH SLAB DETAILS
BRIDGE NO. SUM-271-0019
I.R. 271 UNDER SUMMIT CO. RD. NO. 47

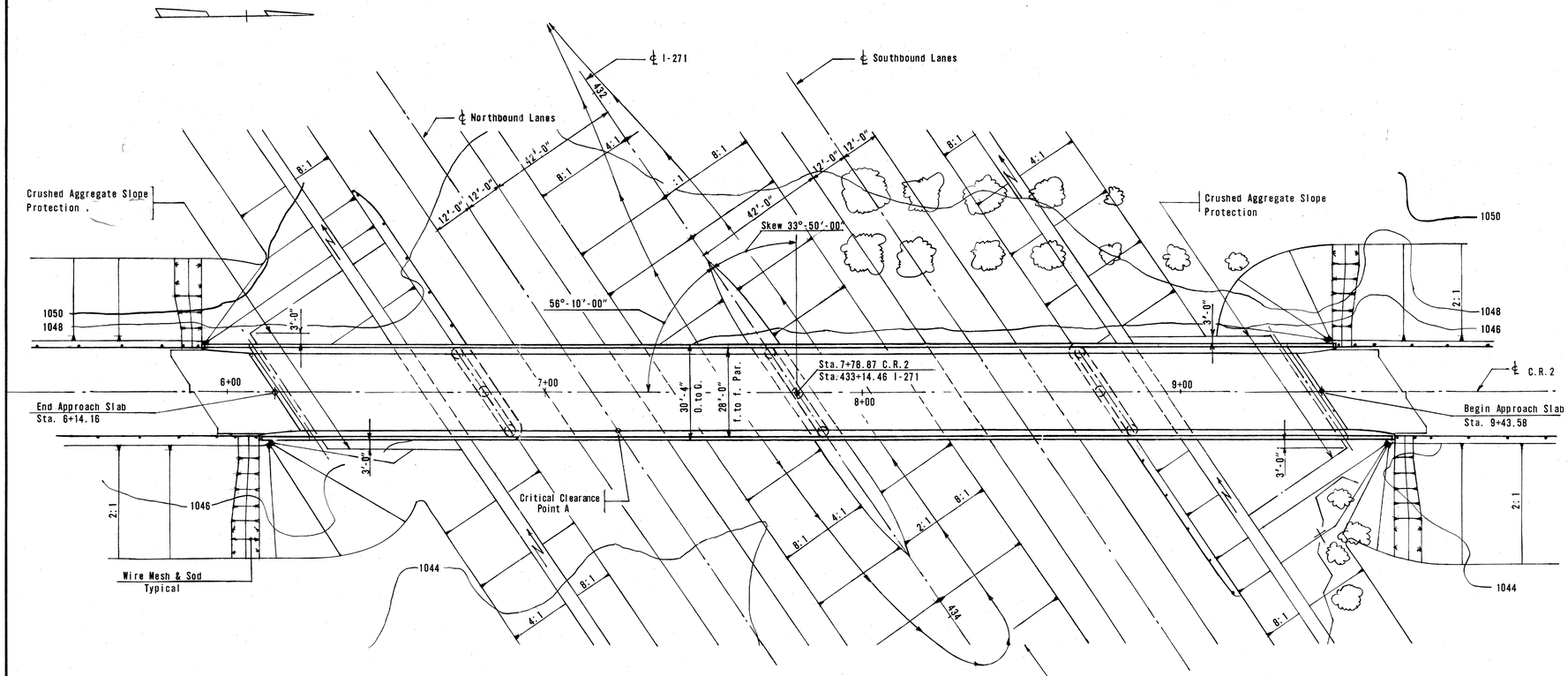
SUMMIT CO. STA. 418+65.18

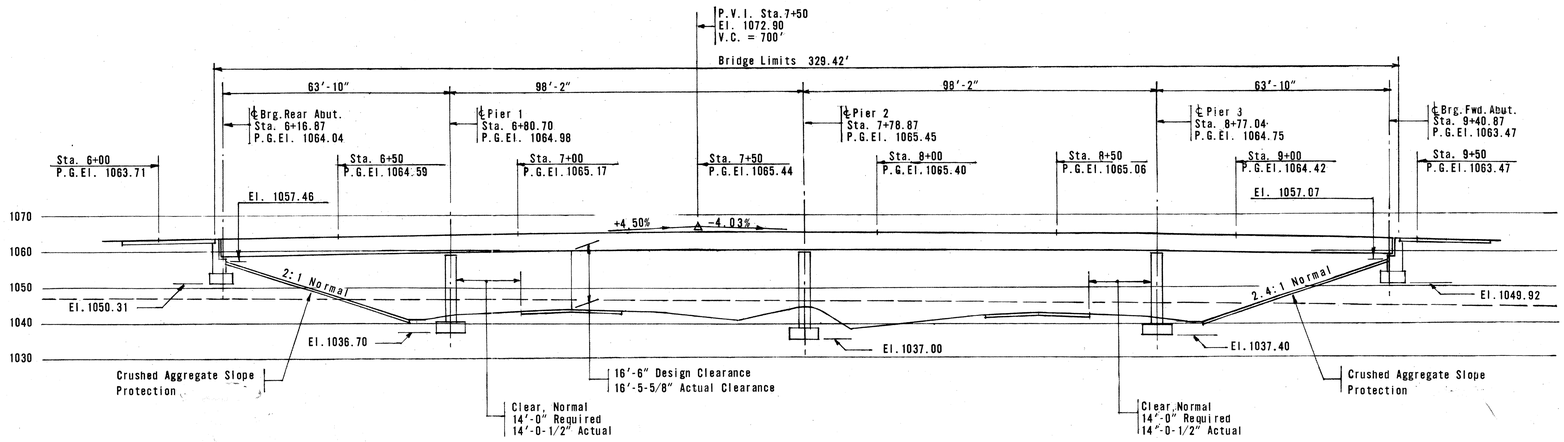
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
SHERMAN	RYNA-RZEWSKI	RYNA-RZEWSKI	PAHL	MUDD	6-18-65	

SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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PROPOSED STRUCTURE

TYPE: Continuous welded girders with reinforced concrete deck and substructure.
SPANS: 63'-10"; 98'-2"; 98'-2"; 63'-10"
ROADWAY: 24'-0" face to face of 2'-0" safety curbs.
LOAD FREQUENCY: C.F.= 130(57)
SKEW: 33°-50'-00"(R.F.)
WEARING SURFACE: 1" Monolithic Concrete
APPROACH SLABS: AS-1-54(25' long)
ALIGNMENT: Tangent
TRAFFIC VOLUME: 10410, ADT-1975, 1-271
833, DDHV-1975, 1-271
800, ADT-1975, C.R.2

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CONSULTING ENGINEERS
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SITE PLAN
BRIDGE NO. SUM-271-0046
INTERSTATE HIGHWAY 271 UNDER SUMMIT COUNTY ROAD NO. 2

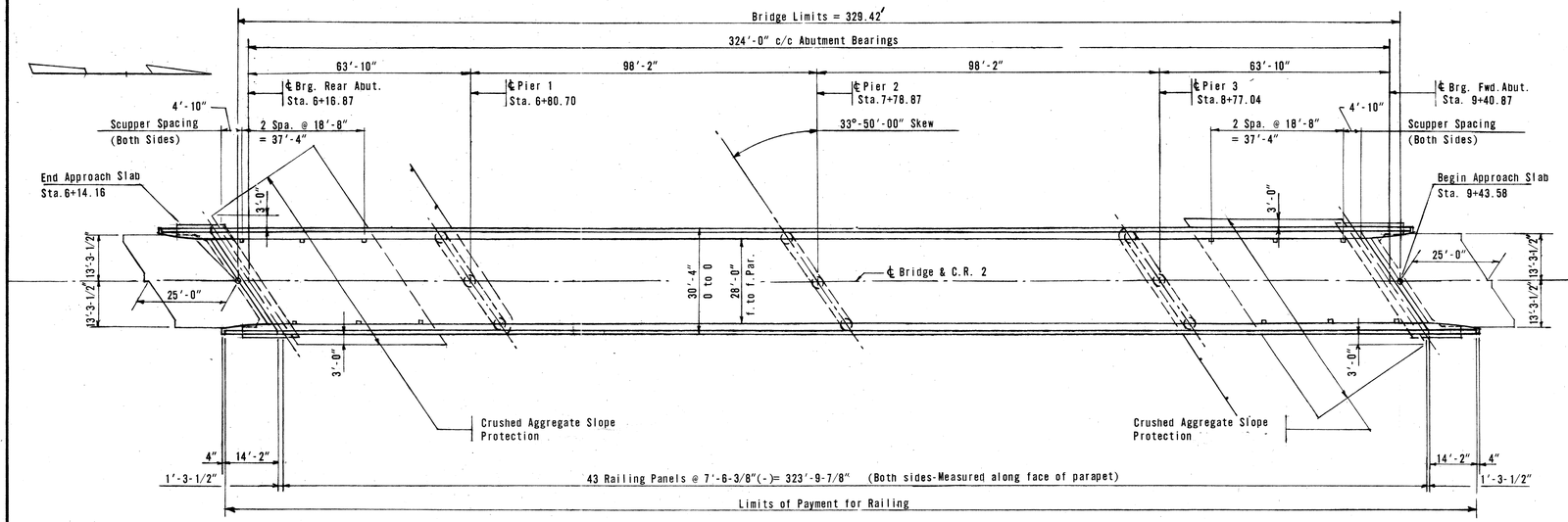
SUMMIT CO. **STA. 433+14.46**

PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
HENRY	AIR SURVEYS CORP.	SHERMAN	BERGER	ROTHEN-HOEFER	MUDD

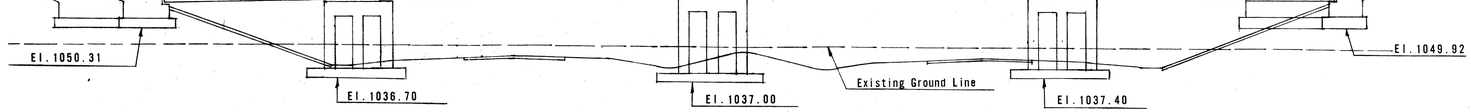
SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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GENERAL PLAN



ELEVATION

GENERAL NOTES

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57, together with current revisions thereof.
REFERENCE should be made to:
Standard Drawing FSB-1-62, revised 1-15-63, and AS-1-54, revised 8-10-65
" " SD-1-63, Sheets 2, 3 & 4, dated 11-12-63.
" " BR-1-65, Type 1, Sheet 1, dated 2-1-65

Supplemental Specifications:
808 dated 7-19-65
811 dated 3-29-65
825 " 4-22-65

EXCAVATION QUANTITY includes the removal of fill material between the surface of the proposed embankment and the bottom of the abutment.

ESTIMATED QUANTITIES

Item	Total	Unit	DESCRIPTION	Super.	Abuts.	Piers	General
503	503	Cu.Yds.	Unclassified excavation		260	243	
511	307	Cu.Yds.	Class "C" concrete, superstructure	307			
511	80	Cu.Yds.	Class "C" concrete, piers above footings			80	
511	110	Cu.Yds.	Class "E" concrete, abutments above footings		110		
511	140	Cu.Yds.	Class "E" concrete, footings		44	96	
909	118,767	Lbs.	Reinforcing Steel	77,835	8,774	32,158	
513	266,410	Lbs.	Structural Steel	266,410			
514	266,410	Lbs.	Field painting of structural steel	266,410			
517	709.49	Lin.Ft.	Railing(Type 1)	652.82	56.67		
518	60	Lin.Ft.	6" Helical perforated CMP, 70706 including specials		60		
518	78	Lin.Ft.	6" Helical CMP, 70706 non-perforated		78		
518	12	Each	Scuppers, including supports	12			
518	34	Cu.Yds.	Porous backfill		34		
808	307	Each	Water-reducing, set-retarding admixture	307			
601	410	Sq.Yds.	Crushed aggregate slope protection				410
825	1345	Sq.Yds.	Concrete Surface Treatment				1345

REINFORCING STEEL LIST

MARK	NO.	LENGTH	WEIGHT	SHP.
ABUTMENTS				
A501	4	11'-7"	48	S
A502	4	6'-0"	25	S
A503	44	7'-10"	359	B
A504	44	7'-0"	321	B
A505	12	10'-1"	126	B
A506	12	4'-0"	50	S
A507	4	16'-0"	87	S
A508	12	8'-0"	100	S
A509	20	7'-6"	156	B
A510	4	8'-0"	33	B
A511	4	8'-10"	37	B
A512	4	9'-8"	40	B
A513	4	10'-6"	44	B
A514	4	11'-4"	47	B
A515	58	5'-10"	353	S
A516	4	2'-10"	12	B
A517	4	3'-10"	16	B
A518	4	4'-8"	19	B
A519	4	5'-4"	22	B
A520	24	5'-10"	146	B
A521	32	2'-10"	94	B
A522	40	5'-7"	233	B
A523	8	7'-7"	63	B
A524	12	8'-6"	106	S
A525	12	5'-0"	63	S
⊕ A526	16	13'-10"	231	S
A527	8	10'-6"	88	S
A528	20	32'-9"	683	S
⊕ A529	20	36'-8"	765	B
A530	16	4'-3"	71	S
A531	6	35'-4"	221	S
A532	48	3'-1"	154	B
A533	8	13'-0"	109	S
A534	12	5'-6"	69	S
A535	4	16'-6"	69	S
A601	44	12'-11"	854	B
A602	8	37'-9"	454	S
A603	66	15'-11"	1575	B
A604	68	8'-4"	851	B
PIERS				
P501	120	7'-8"	960	B
P502	12	28'-10"	361	S
P503	18	7'-5"	139	B
P901	3	31'-5"	320	S
P902	6	31'-2"	636	S
P903	6	29'-6"	602	S
P904	6	28'-10"	588	S
P905	6	9'-9"	199	B

BENDING DIAGRAMS

35'-6"± A529
2'-1"± A532
1'-4"± S501
2'-6"± S502

7'-4"± A503
7'-10"± A604
5'-10"± F1101

MARK	A±	B±
A504	1'-11"	3'-5"
P501	2'-8"	2'-8"
P1001	3'-8"	31'-5"
P1002	3'-8"	31'-0"
P1003	3'-8"	28'-10"

MARK	A±	B±
A505	6	4'-11"
A509	11"	3'-5"
A510	11"	3'-8"
A511	11"	4'-1"
A512	11"	4'-6"
A513	11"	4'-11"
A514	11"	5'-4"

MARK	A±	B±	C%
A516	10"	1'-0"	1'-3"
A517	1'-4"	1'-6"	1'-3"
A518	1'-9"	1'-11"	1'-3"
A519	2'-1"	2'-3"	1'-3"
A520	2'-4"	2'-6"	1'-3"

A521: 10"± , 2"%, 8", 1'-3"%, 1'-0"±
A522 S503: 6-1/2"%, 3/4", 3/4", R503 1'-6"%, 8"%, 8"%, 2'-2"%
A523: 1'-7"±, 8", 6'-0"±
A603: 5'-6"±, 1'-11"±, 1'-5"%, 11"%, 6'-10"±
A601: 5'-5"±, 7'-8"±
R501 R502 R503 R504: 5'-3"±, 1.R=1'-3-1/2", RE401; 3'-4"%, 2'-8-1/2", 7-1/2", 2-3/8", 7-5/8", 9", 12 3/4 I.R.=7-3/8", 1'-7"±
P503 P905: 2'-8"%, 1'-8"±, 2'-10"±

SPIRAL BARS

MARK	NO.	CORE DIA % SPIRAL	LENGTH	PITCH	NO. TURNS	WEIGHT
SP401	3	32"	16'-1"	4-1/2"	46	774
SP402	3	32"	16'-0"	4-1/2"	46	774
SP403	3	32"	15'-2"	4-1/2"	44	738

MARK	NO.	LENGTH	WEIGHT	SHP.
PIERS (cont'd.)				
P1001	3	38'-2"	493	B
P1002	6	37'-9"	975	B
P1003	6	35'-7"	919	B
P1004	12	11'-0"	568	S
P1101	24	19'-11"	2540	S
P1102	24	19'-0"	2423	S
P1103	24	19'-10"	2529	S
P1104	24	10'-0"	1275	S
F601	72	8'-8"	937	S
F602	38	10'-8"	609	S
F701	72	8'-8"	1275	S
F702	11	15'-0"	337	S
F703	24	36'-8"	1799	S
F801	18	14'-0"	673	S
F802	44	34'-8"	4073	S
F803	38	10'-8"	1082	S
F1101	96	7'-0"	3560	B
SUPERSTRUCTURE				
S501	956	2'-4"	2327	B
S502	478	3'-6"	1745	B
S503	478	5'-7"	2784	B
S601	369	29'-8"	16442	S
S602	510	34'-3"	26236	S
S603	57	39'-0"	3389	S
S604 to S623	2 of Ea.	27'-5" to 3'-8"	934	S
S624	2	3'-9"	11	S
S625	2	3'-6"	11	S
S626	2	3'-3"	10	S
S627	4	18'-0"	108	S
S701	369	29'-8"	22376	S
S702 to S721	2 of Ea.	27'-5" to 3'-8"	1271	S
S722	2	3'-9"	15	S
S723	2	3'-6"	14	S
S724	2	3'-3"	13	S
S725	4	18'-2"	149	S
PARAPET RAILING				
R501	16	13'-11"	*	S
R502	16	4'-6"	*	S
R503	12	4'-2"	*	B
R504	8	5'-4"	*	B
R505	168	14'-9"	*	S
REPLACEMENT BARS				
RE401	1	5'-3"	-	B
RE501	1	5'-7"	-	S
RE601	3	5'-11"	-	S
RE701	2	6'-3"	-	S
RE801	1	6'-6"	-	S
RE901	1	6'-10"	-	S
RE1001	1	7'-3"	-	S
RE1101	1	7'-7"	-	S

* Parapet railing bars are included with S-14 for payment.

SPIRAL REINFORCING BARS: The "Length" shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap. The "No. of Turns" shown is the "Length" divided by the pitch, plus 3 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 517. 1-1/2 closed coils shall be provided at the ends of each spiral unit. 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 number of pounds of these spacers, based on 0.68 lb.per lin.ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.
BAR SIZE is indicated in the bar mark. The first digit where three digits are used, and the first two digits where four are used indicate the bar size number. For example, A701 is a No. 7 size bar and P1002 is a No. 10 size bar.
⊕ Cost of field bending and cutting to be included with Item 517, for payment.

Design Loading - CF(130)57
Concrete Class "C" - basic unit stress 1333 p.s.i.
Concrete Class "E" - basic unit stress 1133 p.s.i.
Structural Steel - ASTM A36 - basic unit stress 20,000 p.s.i.

Reinforcing Steel - ASTM A15, A16, A160, Deformed, Intermediate or Hard Grade. Basic unit stress 20,000 p.s.i. Except, spiral reinforcement may be plain, Structural Grade with basic unit stress of 18,000 p.s.i.

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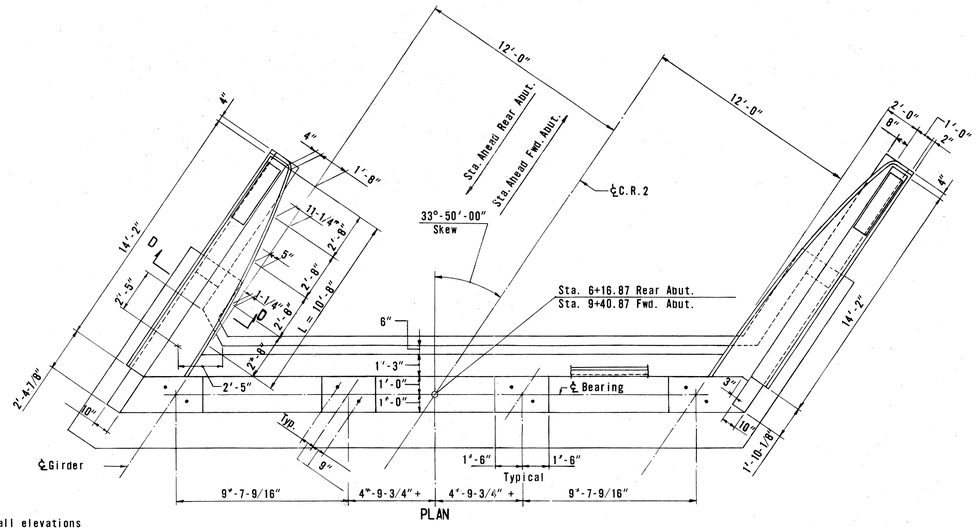
GENERAL PLAN AND ELEVATION, NOTES, ESTIMATED QUANTITIES AND REINFORCING STEEL LIST
BRIDGE NO. SUM-271-0046
I.R.*271 UNDER SUMMIT CO. RD. NO. 2
SUMMIT CO. STA. 433+14.46

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
SHERMAN	BERGER	BERGER	KOHLER	MUDD	6-18-65	

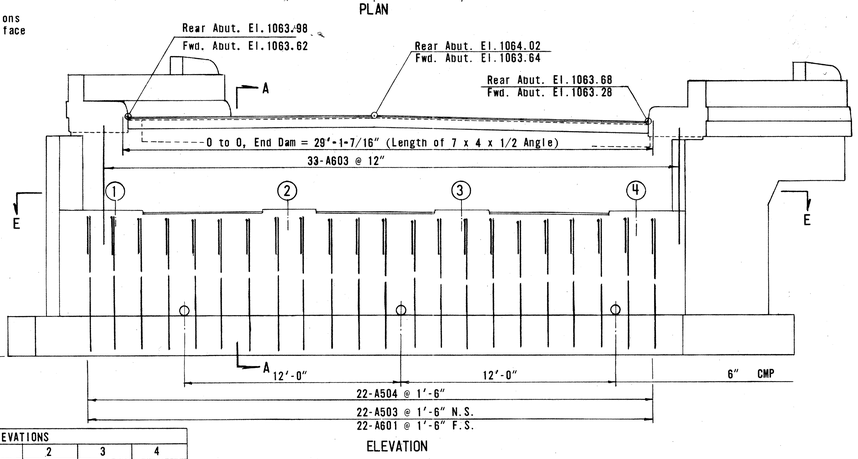
SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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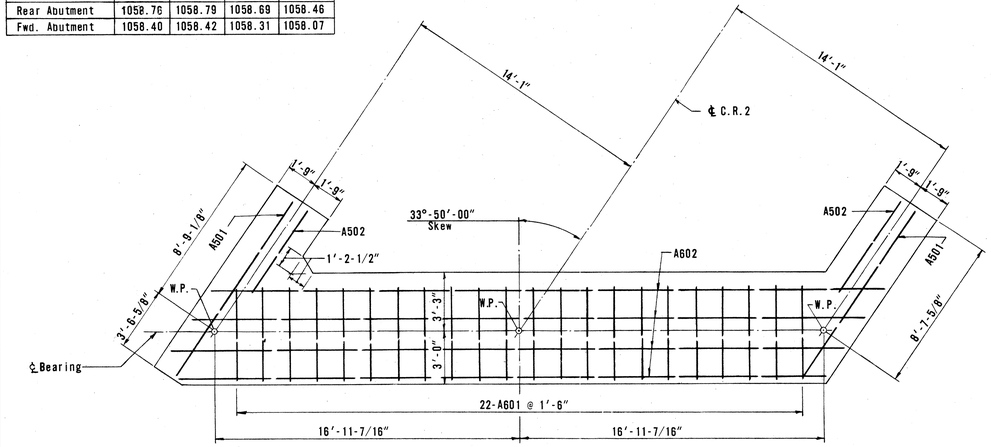


NOTE: Backwall elevations are finished grade at face of backwall.

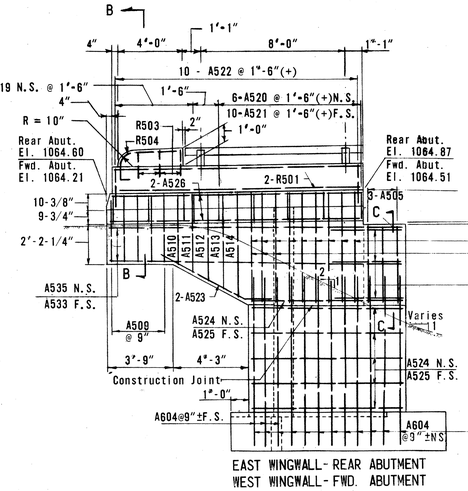


ELEVATION

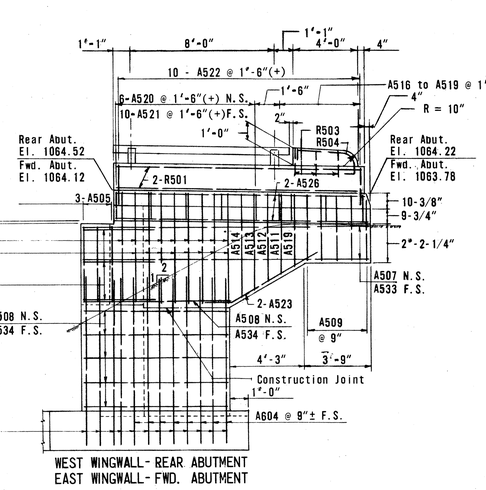
ELEVATIONS				
GIRDER	1	2	3	4
Rear Abutment	1058.76	1058.79	1058.69	1058.46
Fwd. Abutment	1058.40	1058.42	1058.31	1058.07



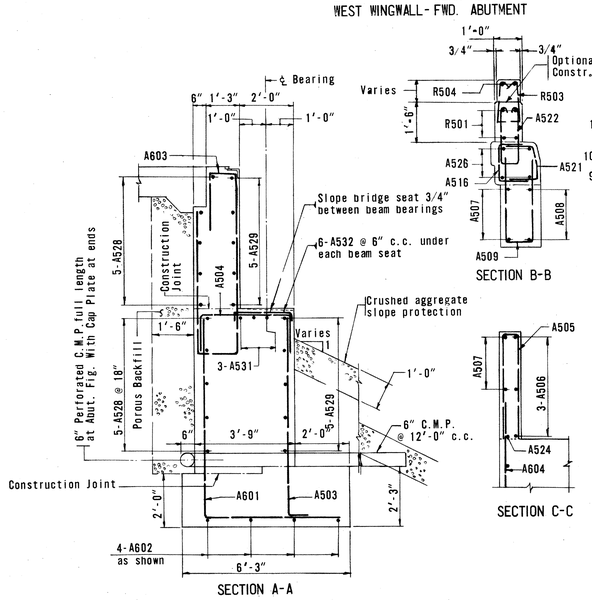
FOOTING PLAN



EAST WINGWALL- REAR ABUTMENT
WEST WINGWALL- FWD. ABUTMENT



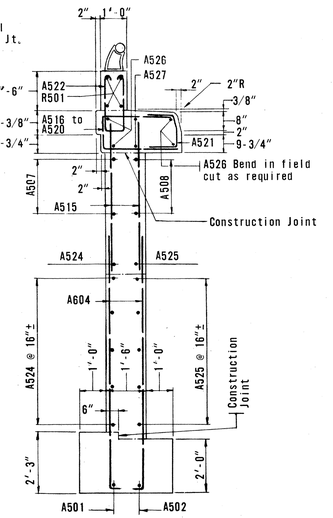
WEST WINGWALL- REAR ABUTMENT
EAST WINGWALL- FWD. ABUTMENT



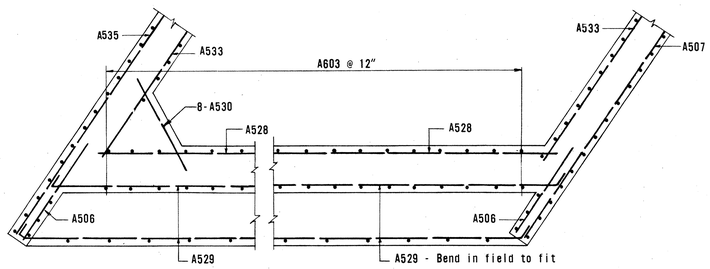
SECTION A-A

SECTION B-B

SECTION C-C



SECTION D-D



SECTION E-E

FOUNDATION BEARING PRESSURE: Abutment footings are designed for a maximum bearing pressure of 2 Tons per Sq. Ft.

CLEARANCE of reinforcing steel from face of concrete shall be 3" in bottom of footing, 1-1/2" in parapet and safety curb and 2" elsewhere.

POROUS BACKFILL shall extend upward to the approach slab and outward to the wingwalls. Excavation therefore, in excess of that required for the construction of the abutment, shall be considered as paid for in the bid price per cu. yd. paid for porous backfill.

PROCEDURE: 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 200 feet back of the abutments. Excavation shall be made for the abutments after a 60 day waiting period.

Abutment backwalls above the bridge seat shall not be placed until all steel is erected. Abutment backwalls shall be completed prior to placing bridge deck slab.

BRIDGE SEAT REINFORCING: Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat so as to avoid interference with the drilling of anchor rod holes.

CONCRETE shall be Class E.

LEGEND:
N.S. - Near Side
F.S. - Far Side

For details of roadway end finish see Standard Drawing SD-1-63, Sheets 2 and 4.

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CONSULTING ENGINEERS
BALTIMORE, MARYLAND

ABUTMENT DETAILS

BRIDGE NO. SUM-271-0046
I.R. 271 UNDER SUMMIT CO. RD. NO. 2

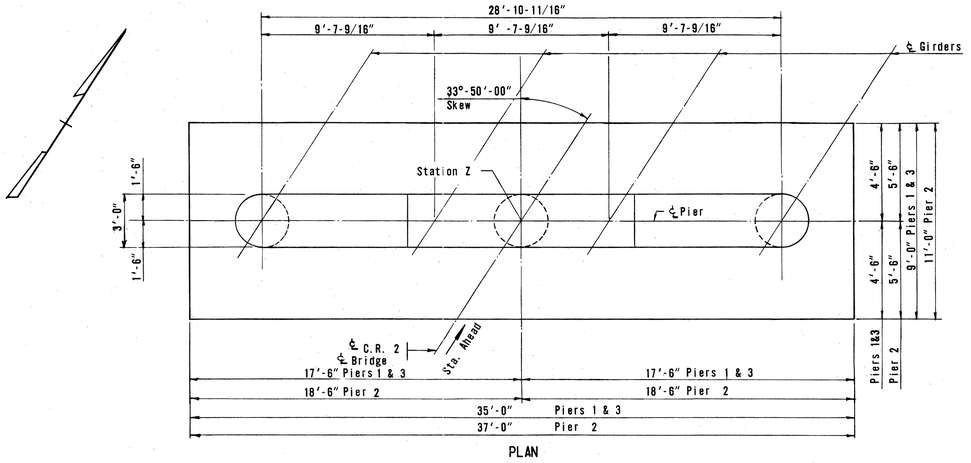
SUMMIT CO. **STA. 433+14.46**

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HENDERSON	ALLEN	ALLEN	KOHLER	MUDD	6-18-65	

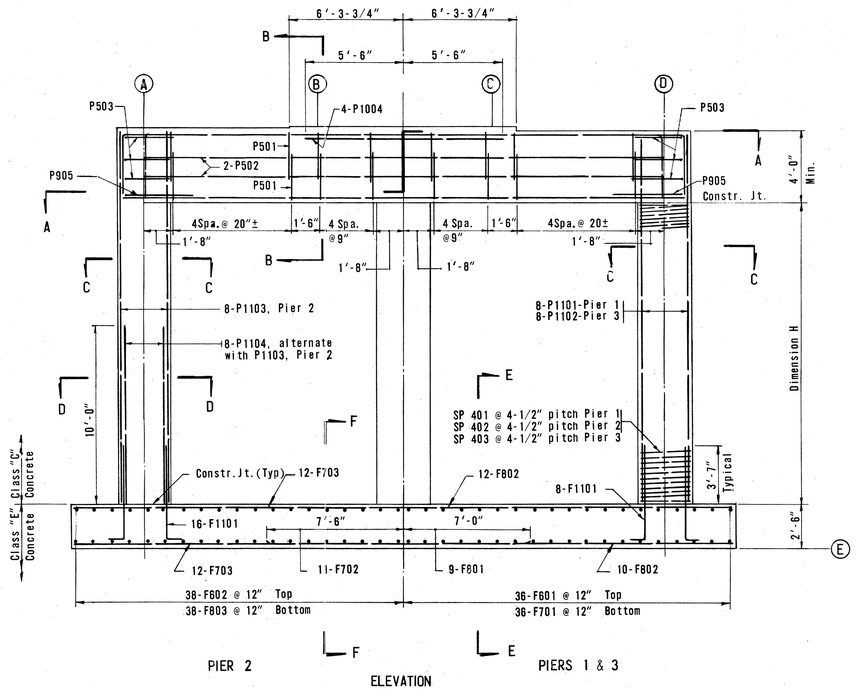
SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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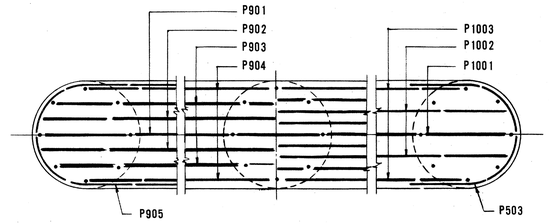


PLAN

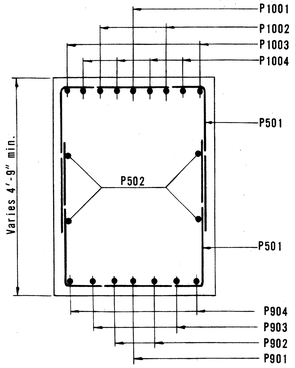


PIER 2 ELEVATION PIERS 1 & 3

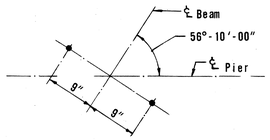
	STATION Z	ELEVATION A	B	C	D	E	DIMENSION H
PIER 1	6+80.70	1059.33	1059.52	1059.58	1059.51	1036.70	16'-1-9/16"
PIER 2	7+78.87	1059.54	1059.67	1059.65	1059.52	1037.00	16'-0-1/4"
PIER 3	8+77.04	1059.30	1059.35	1059.28	1059.09	1037.40	15'-2-1/4"



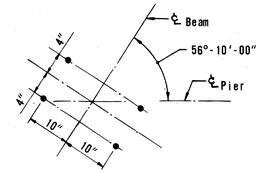
SECTION A-A



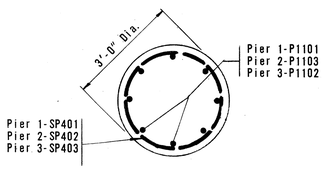
SECTION B-B



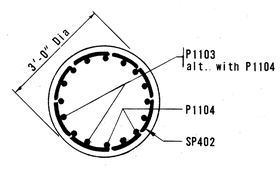
LOCATION OF ANCHOR RODS
EXPANSION BEARING E-250
PIERS 1 & 3



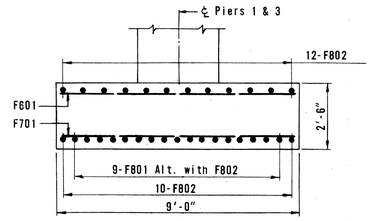
LOCATION OF ANCHOR RODS
FIXED BEARING F-250
PIER 2



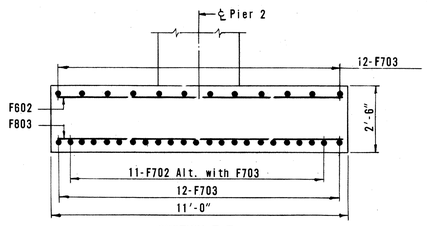
SECTION C-C



SECTION D-D
(Pier 2 Only)



SECTION E-E



SECTION F-F

FOUNDATION BEARING PRESSURE: Pier Footings are designed for a maximum bearing pressure of 2 Tons per Sq. ft.

CLEARANCE of reinforcing steel from face of concrete shall be 3" in bottom of footings and 2" elsewhere.

For details of Fixed and Sliding Bearings See Std. Dwg. No. FSB-1-62.

CONCRETE shall be Class E in Footings and Class C above Footings.

BRIDGE SEAT REINFORCING: Special care shall be taken in placing reinforcing steel in the vicinity of the bridge seat so as to avoid interference with the drilling of anchor rod holes.

J.E GREINER COMPANY
CONSULTING ENGINEERS
BALTIMORE, MARYLAND

PIER DETAILS

BRIDGE NO. SUM-271-0046
I.R. 271 UNDER SUMMIT CO. RD. NO. 2

SUMMIT CO. STA. 433+14.46

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
ROTHENHOEFER	ALLEN	ALLEN	KOHLER	MUDD	6-18-65	

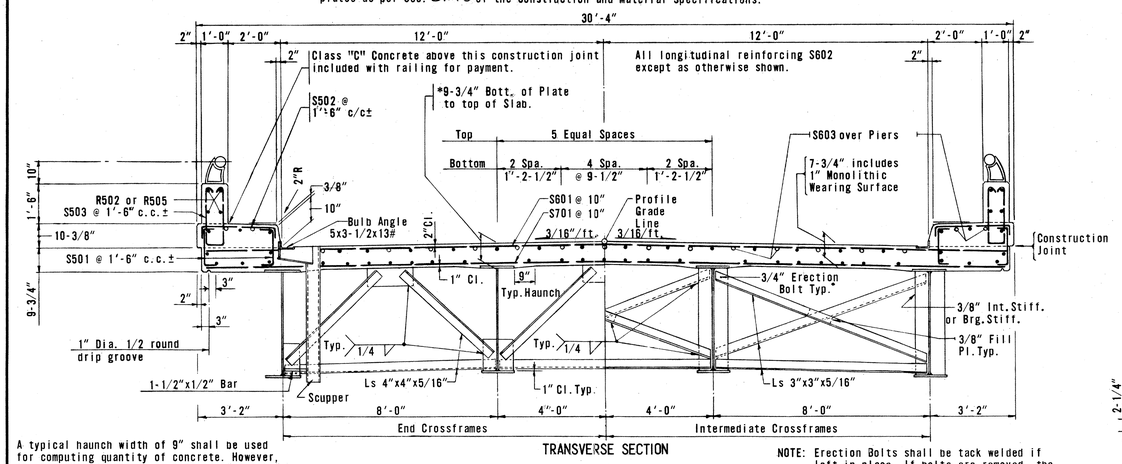
*This is the nominal dimension. The quantity of deck concrete to be paid for shall be based upon this dimension, even though deviation from it may be necessary because the top flange of the girder may not have the exact camber or conformation required to place it parallel to the finished grade. Deduction shall be made for volume of encased steel plates as per Sec. 511.19 of the Construction and Material Specifications.

Location of the bearing stiffeners at the centerline of bearings and the intermediate crossframes shall be as shown the Steel Framing Plan. Intermediate stiffeners adjacent to bearing stiffeners shall be spaced equally between the bearing stiffener and the adjacent crossframes. Field splices in any girder shall be moved to clear intermediate crossframes and/or stiffeners.

SUMMIT COUNTY
MED-271-4.53
SUM-271-0.00

FED.RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

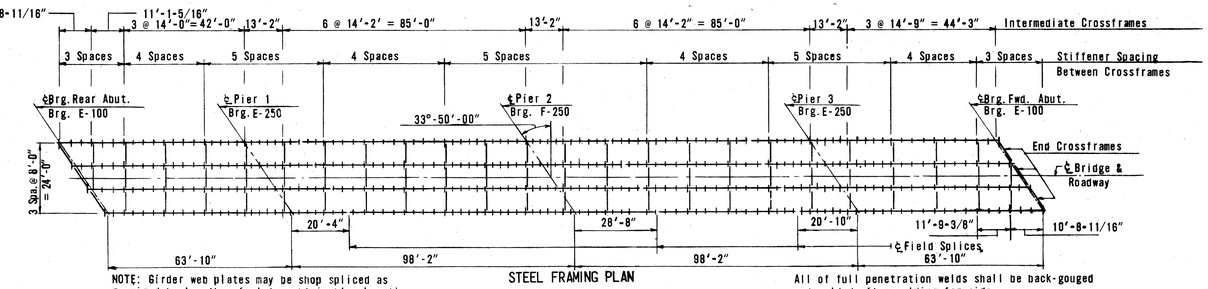
156
178



TRANSVERSE SECTION

A typical haunch width of 9" shall be used for computing quantity of concrete. However, the haunch width may vary between 6" and 12" provided that the slope shall be not more than 1:4 for a haunch less than 9" in width.

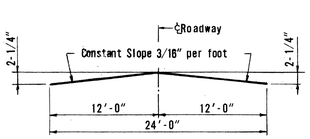
NOTE: Erection Bolts shall be tack welded if left in place. If bolts are removed, the holes shall be plug welded.



STEEL FRAMING PLAN

NOTE: Girder web plates may be shop spliced as required by lengths of plates obtainable. Location of shop splices shall be submitted to the Director for approval.

All of full penetration welds shall be back-gouged and welded after welding far side. Butt welds on beam and girder flange and web plates shall be ground flush, the finish grinding being parallel to the direction of stress.



BRIDGE ROADWAY CROWN

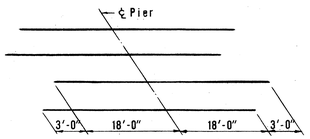
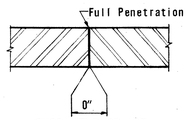
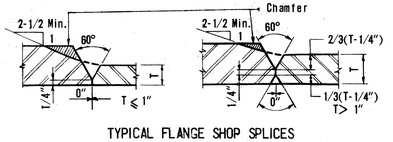


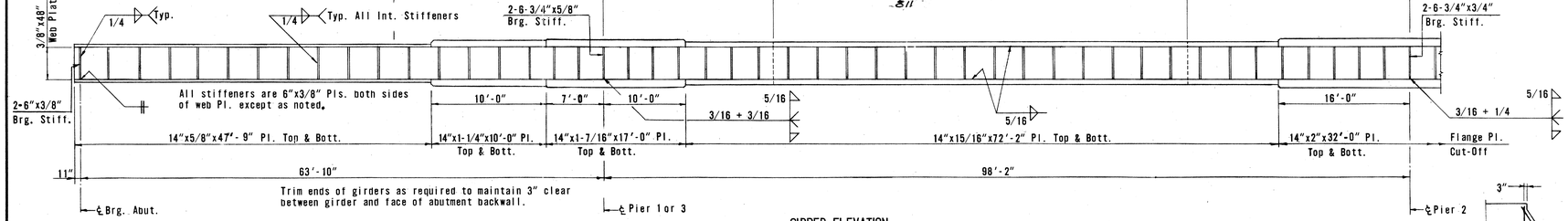
DIAGRAM SHOWING STAGGER OF S603 BARS OVER PIERS



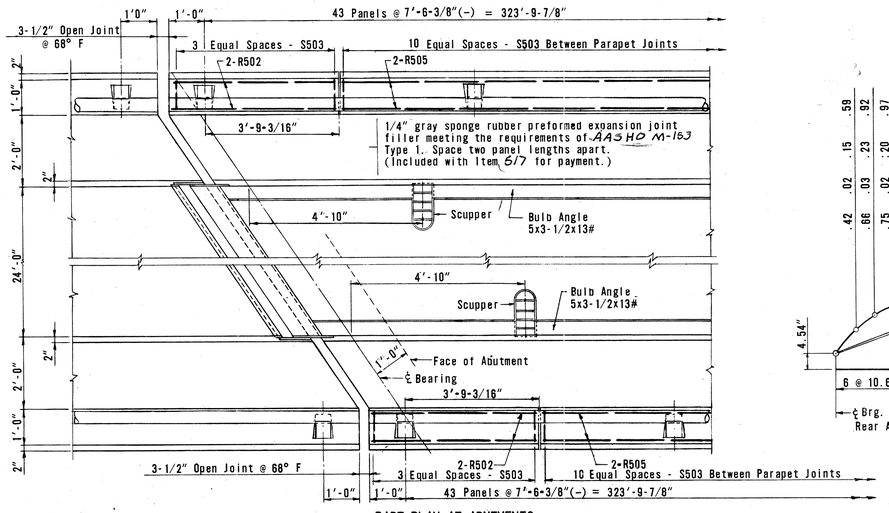
SHOP WELD SPLICE



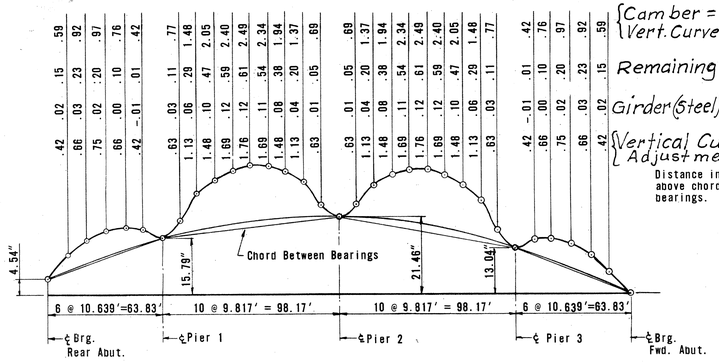
TYPICAL FLANGE SHOP SPLICES



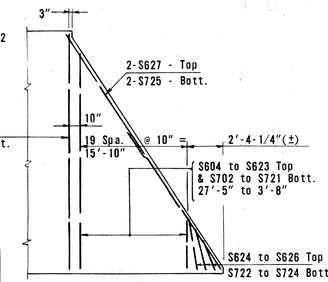
GIRDER ELEVATION



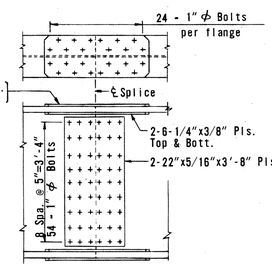
PART PLAN AT ABUTMENTS



CAMBER DIAGRAM



SLAB REINFORCING STEEL LAYOUT



TYPICAL FIELD SPLICE DETAIL

SUPERSTRUCTURE NOTES

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 parallel to transverse reinforcing steel and are located near the center of any span.

MACHINE FINISH: The concrete bridge deck shall be finished by the use of a finishing machine.

For details of roadway end-finish girder cutoff at backwall, and welded butt joint in end finish angles at centerline of roadway, see Standard Drawing SD-1-63, Sheet 2.

For details of scuppers, curb plates and gutter supports, see Standard Drawing SD-1-63, Sheets 3 & 4.

For details of fixed and sliding bearings see Standard Drawing FSB-1-62.

For details of aluminum railing see Standard Drawing BR-1-65, Type 1.

For Scupper spacing see Sheet No. 153.

REINFORCING STEEL shall be 1-1/2" clear of surfaces in parapets and safety curbs. Place transverse reinforcing normal to center line of roadway.

INTERMEDIATE STIFFENERS of welded built-up girders shall have contact bearing with the compression flange, but may have a clearance of not more than 1/8 inch from the tension flange. In shop painting, care shall be taken to make certain that paint is forced through from one side to the other of the 1/8" opening.

HIGH-STRENGTH STEEL BOLTS, NUTS AND WASHERS: Under Item 7.7.10, paragraph two (2), shall be completely revised and the last sentence of paragraph four (4), revised to read as follows:

"In the final assembly of the parts to be bolted, drift pins shall be placed in a sufficient number of holes (not less than 25 percent for field erection) to provide and maintain accurate alignment of holes and parts, and sufficient bolts shall be installed and brought to a snug tight condition to bring the parts into complete contact. Bolts shall then be installed in any remaining open holes and tightened to a snug tight fit, after which all bolts shall be tightened completely by calibrated wrenches or by the turn-of-nut method. Drift pins shall then be replaced with bolts, tightened in the same manner.

Bolt lengths determined by the use of Table No.1 shall be adjusted to the next 1/4-inch length increment."

1" Dia. High-strength bolts shall be used for all Field Splices.

PROCEDURE: The Contractor shall submit to the Director, for approval, 3 prints showing his proposed erection procedure for plate girder.

J.E GREINER COMPANY
CONSULTING ENGINEERS
BALTIMORE, MARYLAND

SUPERSTRUCTURE DETAILS
BRIDGE NO. SUM-271-0046
I.R. 271 UNDER SUMMIT CO. RD. NO. 2

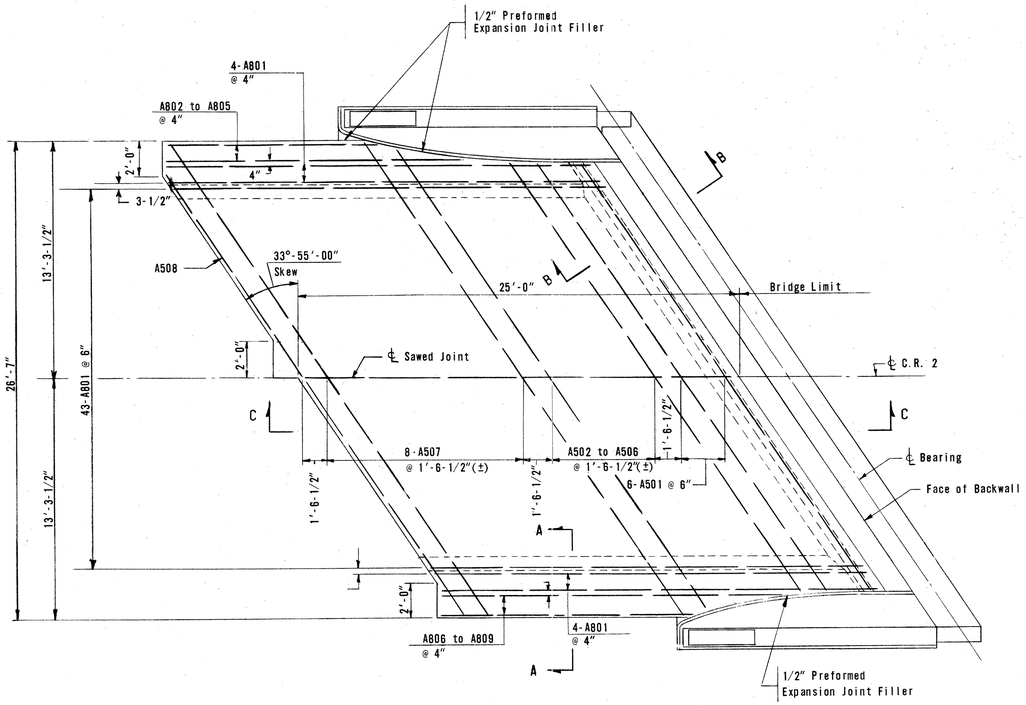
SUMMIT CO. **STA. 433+14.46**

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HUANG	ALLEN	ALLEN	ROTHEN-HOEFER	MUDD	6-18-65	

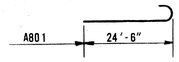
MEDINA COUNTY
MED-271-4.53
SUM-271-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

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REINFORCING STEEL LIST				
MARK	NO.	LENGTH	WEIGHT	SHP.
A801	102	25'-7"	6967	B
A802 to A805	2 Series of 4 bars 1'-6" Incr.	12'-4" to 16'-10"	312	S
A806 to A809	2 Series of 4 bars 1'-7" Incr.	14'-3" to 19'-0"	355	S
A501	12	28'-7"	358	S
A502 to A506	2 Series of 5 bars 6" Incr.	28'-10" to 30'-10"	311	S
A507	16	31'-8"	528	S
A508	2	29'-6"	62	S



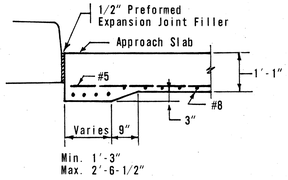
Quantities are for two (2) Approach Slabs

NOTES:
1/2" Preformed Expansion Joint Filler shall be included in Item 611 "Reinforced Concrete Approach Slab" for payment.

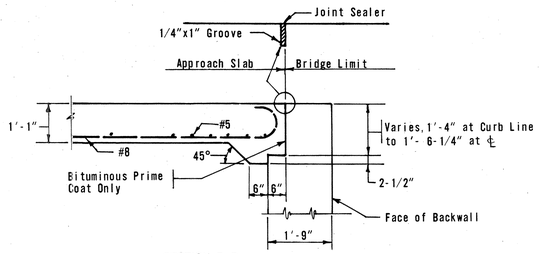
Bar Size is indicated in the Bar Mark. The first digit indicates the Bar Size Number. For example: A801 is a No. 8 Bar Size.

Work this sheet with Standard Drawing No. AS-1-54 (Revised 8-10-66)

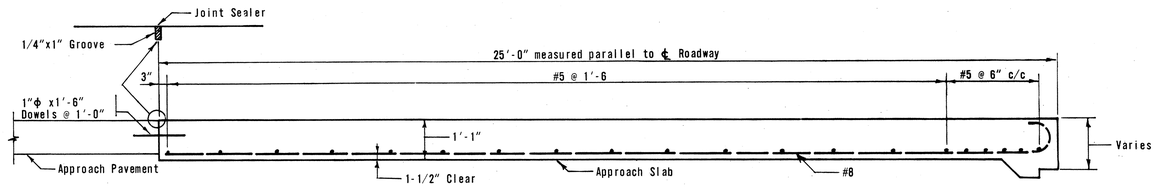
Concrete in Approach Slabs shall be Class C.



SECTION A-A



SECTION B-B



SECTION C-C

J.E GREINER COMPANY
CONSULTING ENGINEERS
BALTIMORE, MARYLAND

APPROACH SLAB DETAILS

BRIDGE NO. SUM-271-0046
I.R. 271 UNDER SUMMIT CO. RD. NO. 2

SUMMIT CO. STA. 433+14.46

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
BARTO	BARTO	BARTO	KOHLER	MUDD	6-18-65	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

158/178

MED-271-4.53
SUM-271-0.00
LIMITED ACCESS

1/2

CENTER LINE SURVEY PLAT

OHIO INTERSTATE 271

MED-271-4.53 SUM-271-0.00

MEDINA AND SUMMIT COUNTIES, OHIO

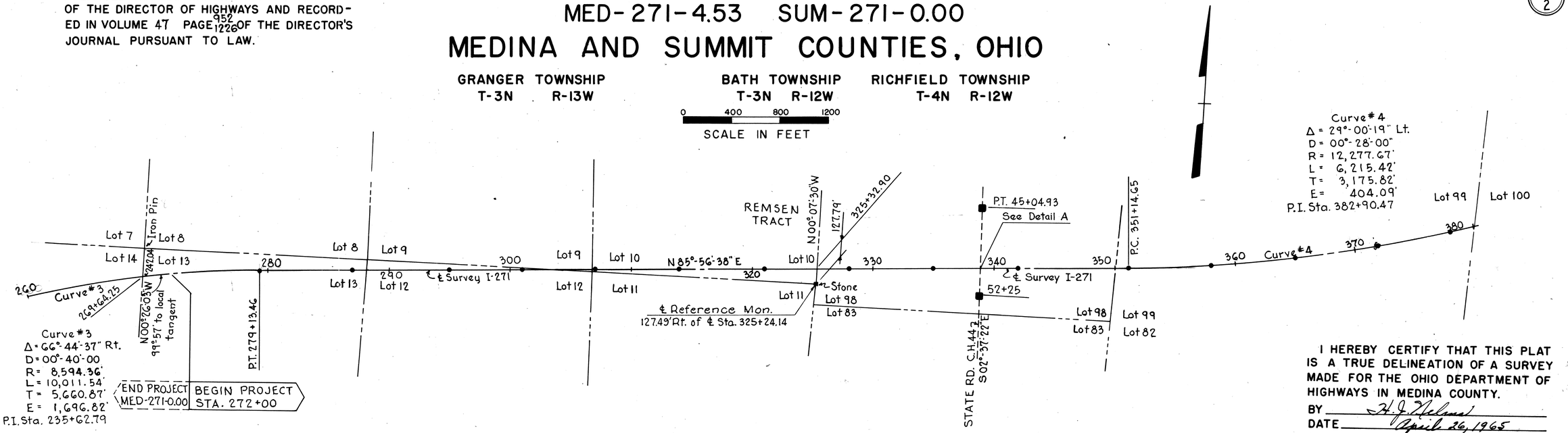
THIS IMPROVEMENT HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY BY ACTION OF THE DIRECTOR OF HIGHWAYS AND RECORDED IN VOLUME 47 PAGE 952/1226 OF THE DIRECTOR'S JOURNAL PURSUANT TO LAW.

GRANGER TOWNSHIP T-3N R-13W

BATH TOWNSHIP T-3N R-12W

RICHFIELD TOWNSHIP T-4N R-12W

0 400 800 1200
SCALE IN FEET



I HEREBY CERTIFY THAT THIS PLAT IS A TRUE DELINEATION OF A SURVEY MADE FOR THE OHIO DEPARTMENT OF HIGHWAYS IN MEDINA COUNTY.

BY H. J. Nelson

DATE April 26, 1965

REGISTERED SURVEYOR NO. 4629

SIGNED D. H. Timmer PE. NO. 24400
DATE: 9-14-65 DIV. DEPUTY DIRECTOR
DIV. NO. 3

See Sheet 2 of 2 for Additional Monuments

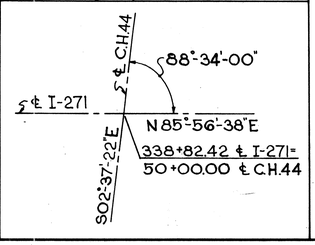
Estimated Quantities
Centerline Reference Monuments – 16
Monument Assemblies – 2

LOCATION OF CENTERLINE REFERENCE MONUMENT		
NO.	STATION	LOCATION
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	P.T. 279+13.46	℄ I-271
	287+00.00	℄ I-271
	295+00.00	℄ I-271
	301+00.00	℄ I-271
	307+00.00	℄ I-271
	314+00.00	℄ I-271
	321+00.00	℄ I-271
	328+00.00	℄ I-271
	335+00.00	℄ I-271
	342+00.00	℄ I-271
	P.C. 351+14.65	℄ I-271
	358+00.00	℄ I-271
	365+00.00	℄ I-271
	372+00.00	℄ I-271
	378+00.00	℄ I-271

MONUMENT ASSEMBLIES	
P.T. 45+04.93	℄ C.H. 44
52+25.00	℄ C.H. 44

Legend
- Centerline Reference Monument
- Monument Assembly
- Existing Road
- Lot Line

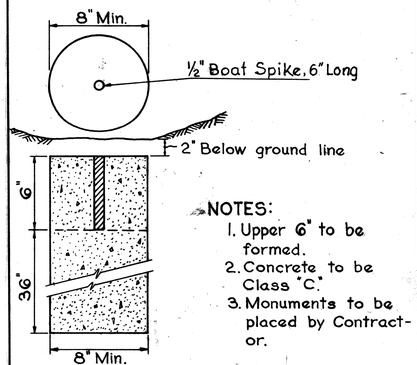
DETAIL A
Highway Tie



101182

RECEIVED October 4, 1965 at 10:00 A.M.
RECORDED October 4, 1965
PLAT BOOK 12 PAGE 88
SIGNED Clive L. Fetzer
MEDINA COUNTY RECORDER
18" X 11" = $1.98

CENTERLINE REFERENCE MONUMENT DETAIL



NOTES:
1. Upper 6" to be formed.
2. Concrete to be Class "C."
3. Monuments to be placed by Contractor.

TWW OK Roy Ruff 10-4-65

THIS IMPROVEMENT HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY BY ACTION OF THE DIRECTOR OF HIGHWAYS AND RECORDED IN VOLUME 47 PAGE 952 1226 OF THE DIRECTOR'S JOURNAL PURSUANT TO LAW.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

159/178

MED-271-4.53
SUM-271-0.00
LIMITED ACCESS

2/2

INDEXED

CENTER LINE SURVEY PLAT

OHIO INTERSTATE 271

MED-271-4.53 SUM-271-0.00

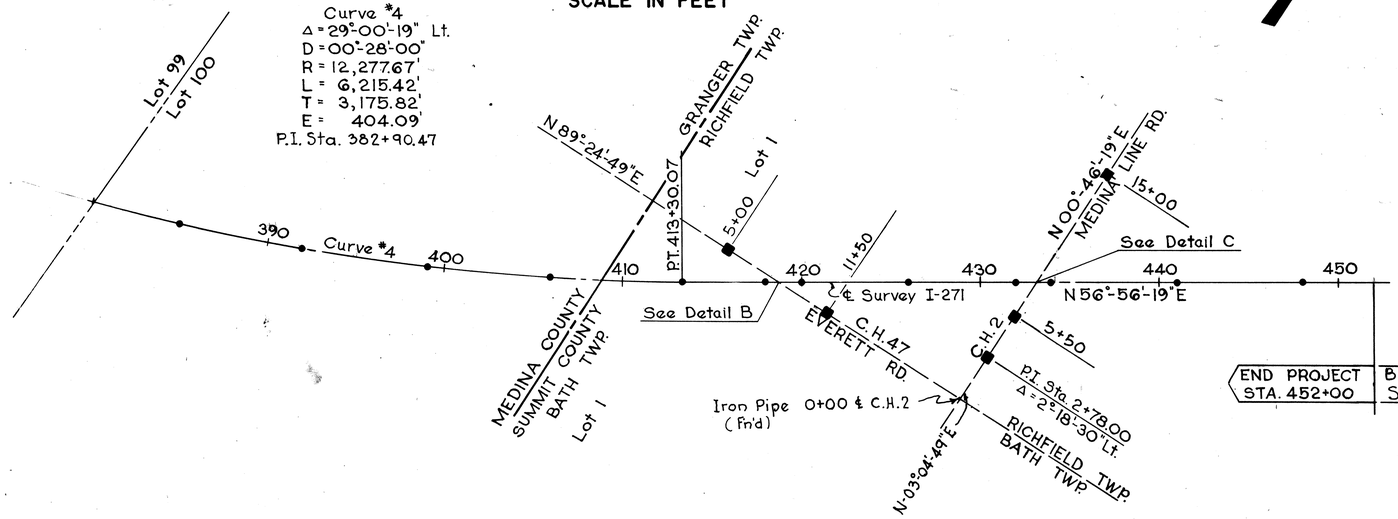
MEDINA AND SUMMIT COUNTIES, OHIO

GRANGER TOWNSHIP T-3N R-13W

BATH TOWNSHIP T-3N R-12W

RICHFIELD TOWNSHIP T-4N R-12W

0 400 800 1200
SCALE IN FEET



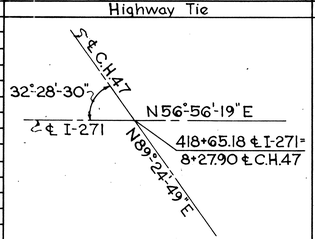
Legend
- Centerline Reference Monument
- Monument Assembly
- Existing Road
- Lot Line

See Sheet 1 of 2 for Additional Monuments

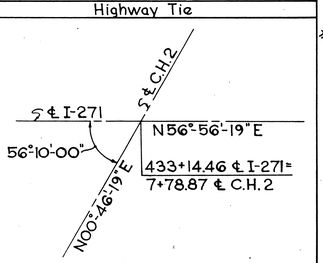
Estimated Quantities
Centerline Reference Monuments - 12
Monument Assemblies - 5

LOCATION OF CENTERLINE REFERENCE MONUMENT	
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406+00.00	℄ I-271
P.T. 413+30.07	℄ I-271
418+00.00	℄ I-271
420+00.00	℄ I-271
426+00.00	℄ I-271
432+00.00	℄ I-271
434+00.00	℄ I-271
441+00.00	℄ I-271
448+00.00	℄ I-271
MONUMENT ASSEMBLIES	
5+00.00	℄ C.H.47
11+50.00	℄ C.H.47
P.I 2+78.00	℄ C.H.2
5+50.00	℄ C.H.2
15+00.00	℄ C.H.2

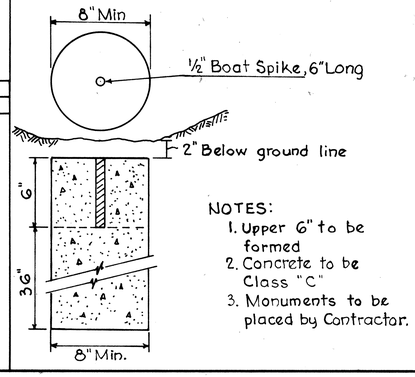
DETAIL B
Highway Tie



DETAIL C
Highway Tie



CENTERLINE REFERENCE MONUMENT DETAIL



NOTES:
1. Upper 6" to be formed
2. Concrete to be Class "C"
3. Monuments to be placed by Contractor.

I HEREBY CERTIFY THAT THIS PLAT IS A TRUE DELINEATION OF A SURVEY MADE FOR THE OHIO DEPARTMENT OF HIGHWAYS IN SUMMIT COUNTY.

BY W. J. Nelson

DATE April 26, 1965

REGISTERED SURVEYOR NO. 4629

END PROJECT	BEGIN PROJECT
STA. 452+00	SUM-271-0.83

410512

RECEIVED OCTOBER 4-1965 at 12:15 PM
RECORDED OCT 5 - 1965
PLAT BOOK 67 PAGE 66-67
SIGNED Roy R Ruff
SUMMIT COUNTY RECORDER
By B. Dabor - Dep. Recorder
870

SIGNED D H Emmer P.E. NO. 24400
DATE: 9-14-65 DIV. DEPUTY DIRECTOR
DIV. NO. 3

101183

RECEIVED OCTOBER 4 - 1965 at 10:01 A.M.
RECORDED October 4, 1965
PLAT BOOK 12 PAGE 83
SIGNED Elsie L. Fetzer
MEDINA COUNTY RECORDER
18" X 11" = $1.98

TRANSFER NOT NECESSARY
OCT 5 1965
D. L. Bower, County Aud.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(4)224	

160
178

MEDINA COUNTY - SUMMIT COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS

1
19

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

TOTAL NUMBER OF OWNERS : 34
TOTAL NUMBER OF OWNERS WITH STRUCTURES: 5

PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED AREA	TO BE ACQUIRED LAND	TO BE ACQUIRED BLDGS.	RESIDUE LEFT	RESIDUE RIGHT	SHEET NO.	REMARKS	TYPE OF FUND
36	Nellie Gaiduk	283	654	63.71	0	No	63.71	0	5,6	No Right of Way Required	
37WL	Roy Albert & Bartha Catherine Van Duesen	305	664	30.00	0.45	No	29.16	0	6,7	P.R.O. = 0.39 Ac.	
*38WL	Everett E. & Alice R. Ingalls	200	555	103.75	12.13	No	0.17 (L)	91±	5,6,7		
39WL	Loretta S. McClain	307	64	20.12	1.93	No	18.19	0	7		
40WL	Frank J. Jr. & Nancy E. Kalfas	295	470	15.12	0.75	No	14.37	0	7		
41WL	Herbert O. Kamps	130	482	40.00	2.42	No	37.58	0	7,8		
42WL	Harold W. & Ethel Alber	201	290	67.33	2.19	No	0	65.14	7		
43WL	John A. & Aka Iva Iva M. Codding	97 203	168 1	82.05	5.88	No	0	76.17	7,8		
44WL	Bernard A & LaVonne E. Krueger	161 202	431 402	99.72	3.07	No	0	96.65	8,9		
45WL	Vincentian Sisters of Charity	176	123	51.75	4.01	No	47.74	0	8,9		
	of the Diocese of Cleveland										
46WL	Ellen Louise Kreke	299	288	51.75	5.36	Yes	46.39	0	9		
47WL	Mary M. & Harry Streck	200	68	117.39	9.65	Yes	62.5±	45±	9,10	P.R.O. = 0.57 Acre	
47	" " "				0.16				10		
47A	" " "				0.02				10		
47T	" " "				0.16				10		
47T-1	" " "				0.17				10		
47T-2	" " "				0.11				10		
48	Not Used										
49WL	James D. Reasner	303	149	19.48	3.85	No	15.14	0	10,11	P.R.O. = 0.35 Acre	
49	" " "				0.14				10		
49T	" " "				0.02				10		
50WL	Arthur A. & Elmer A. Pimsner	202	507	75.00	5.26	No	0	69.49	10,11	P.R.O. = 0.22 Acre	
50	" " "				0.03				10		
50T	" " "				0.03				10		
51	Not Used										
52WL	Samuel & Patricia A. Oldfield	324 Document 379	465 Cert. 126	83.20	11.43	No	59±	13± (L)	11,12		
53WL	Karol S. & Amelia Adams	256	268	48.99	6.72	No	34±	8.5± (L)	12		
53T	" " "				0.15				12		
54WL	Green Valley Outing Club, Inc.	Document 189	VI P131 Reg. Land Book	90.31	12.80	Yes	46.5±	31± (L)	12,13		
54T	" " " "				0.12				12		
54T-1	" " " "				0.05				13		
54T-2	" " " "				0.21				13		
55WL	Gustav C. & Leona F. Stobbe	249	412	69.50	11.06	No	33.5±	25± (L)	13,14		
55T	" " "				0.06				14		
56WL	Arthur Nicholas & Ann Louis	167	291	60.00	1.11	No	0	58.89	14,15		
56T	Sterenberg				0.07				14		
57WL	Irene E. Henley	196	260	0.91	0.81	Yes	0.10	0	14,15		
57T	" " "				0.09				14,15		
58WL	Francis M. Gaffney and Rev. J. Richard Gaffney	301	307	9.10	2.74	Yes	6.21	0.15 (L)	14,15		
37A	Ora W. & Ina M. Van Duesen	114	260	28.67	0	No	28.67	0	7	No R/W Needed	

(L) Landlocked Area

* Indicates Parcel added.

INTERSTATE FUND

PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED AREA	TO BE ACQUIRED LAND	TO BE ACQUIRED BLDGS.	RESIDUE LEFT	RESIDUE RIGHT	SHEET NO.	REMARKS	TYPE OF FUND
59WL	Mildred Bayus	3916	152	22.00	6.77	No	1.5±	13±(L)	15	P.R.O. = 0.57 Acre	
59	" "				0.10				15		
59T	" "				0.40				15		
*60WL	Gustav C & Leona F. Stobbe	4172	609	18.23	0.53	No	0	16.29	15,16	P.R.O. = 1.32 Acre	
60	" " "				0.09				16		
*61	Not Used										
62WL	Peter & Mary Shroba	2056	249	41.26	10.73	No	24.5	4±	15,16,19	P.R.O. = 1.63 Acre	
62	" " "				0.11				15		
62A	" " "				0.02				16		
62B	" " "				0.24				16,19		
62T	" " "				0.16				15		
63	Elsie A. Hess	2766	106	21.16	0.06	No	20.87	0	19	P.R.O. = 0.23 Acre	
64	Steve J. & Virginia T. Wargo	4262	453	4.30	0.04	No	0	3.66	19	P.R.O. = 0.60 Acre	
65WL	Donald J. & Fern E. Cass	2546	154	4.87	2.60			0.11 (L)	17,19		
65AWL	Fern E. Cass	2451	312		0.28	No	1.6		17,19	P.R.O. = 0.14 Acres	
65	" "				0.14				19		
65T	" "				0.30				17,19		
65T-1	" "				0.09				17		
66WL	John Russell & Ruth Fox	3641	169	4.87	3.00	Yes	0.31	1.29 (L)	16,17,19	P.R.O. = 1.14 Acre	
66	" " " "				0.13				16,17		
66T	" " " "				0.03				17,19		
67WL	Frank Domain	4263	518	4.89	1.89	No	0	2.86 (L)	16,17,19	P.R.O. = 0.14 Acre	
68WL	Joseph R. & Antoinette B. Wajda	4133	245	13.70	0.35	No	0	12.47	16,17,19	P.R.O. = 0.63 Acre	
68	" " "				0.25				16,19		
68T	" " "				300 sq. ft.				19		
69WL	Kenneth J. & Margaret J. Taucher	4209	646	11.54	0.49	No	10.41	0	16,19	P.R.O. = 0.38 Acre	
69	" " "				0.26				16,19		
69T	" " "				0.34	Yes			16,19		
70	Alfred Hoppe	2167	175	0.40	0.04	No	0	0.19 (L)	19	P.R.O. = 0.17 Acre	
71WL	Frank Zodnik	2872	644	5.93	0.22	No	0	5.56	17	P.R.O. = 0.15 Acre	
72WL	Arthur & John Nitti	3304	534	41.01	12.06	No	17.8	10.89 (L)	17,18,19	P.R.O. = 0.20 Acre	
72	" "				0.06				19		
*59T1	Mildred Bayus	3916	152		0.26				15		
*60T	Gustav C. & Leona F. Stobbe	4172	609		0.78				16		

INTERSTATE FUND

GRANGER TWP
T-3N R-13W

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

161
178

MEDINA COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1" = 400'

2
19

BEGIN ACQUISITION
STA. 269+64.25
MED/SUM-271-4.53/0.00

END ACQUISITION
STA. 269+64.25
MED-271-0.00

247+24.60 I-271
50+00 to SR 94

AUG 1 6 1965

REVISIONS

R/W PLAN PROPERTY MAP

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

162
178

3
19

MEDINA COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1" = 400'

Ledge Rd. C.H. 135

Hinkley Township / Granger Township

Lot-9 Lot-10 Lot-91 Lot-92 Lot-98 Lot-99 Lot-100 Lot-101

The Cleveland Metropolitan Park Association

The Y.M.C.A. of Medina County

Fred R. & Mildred J. Kreuscher

Katherine Karasek & John L. Karasek

Toddle Tots Nursery Schools Inc.

Ruth B. Putz

Walter A., Jr. & Lois C. Robb

Ora M. & Ina M. Vanduesen (37A)

Loretta S. McClain (39)

Frank J., Jr. & Nancy E. Kalfas (40)

Herbert O. Kamps (41)

Vincentian Sisters of Charity of the Diocese of Cleveland (45)

Ellen Louise Kreke L/E Mabel Mickel (46)

Mary M. & Harry C. Streck

Emma Louise Gerhard

James C. Reasner (47)

James C. Reasner

Bessie W. Dannley

Samuel & Patricia A. Oldfield (52)

Karol S. & Amelia Adams (53)

Green Valley Outing Club Inc. (54)

Roger A. & Ruth E. Breda

John S. Lickvar

Gustav C. & Leona F. Stobbe (55)

Irene E. Henley (57)

10' Easement

30' Easement

Francis M. Gaffney et al (58)

LA R/W

290 300 310 320 330 340 350 360 370 380 390 400

R/W

Lot-12 Lot-11 Lot-98 Lot-83 Lot-82

Harold W. & Ethel Alber (42)

John A. & Iva M. Codding (43)

Bernard A. & La Vonne E. Krueger (44)

Mary M. & Harry C. Streck

Arthur A. & Elmer A. Pimsner (50)

Fay Scanlon & John E. Scanlon

State Rd. C.H. 44

Ohio Fuel Gas Co. 6" Line FL-1815

O. Stanley & Esther I. Allard

1-2705-P GAS WELL

1-2635-P GAS WELL

Arthur Nicholas & Ann Louise Sterenberg (56)

MEDINA COUNTY / SUMMIT COUNTY

Howard C. & Clara M. Brenneman

Adolph E. & Denise M. Goodman

Paul H. & Frances A. Cranz

Remsen Rd. C.H. 37

GRANGER TWP
T-3N R-13W

Legend
Buildings

AUG 18 87

REVISIONS

R/W PLAN PROPERTY MAP

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

163/178

SUMMIT COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1"=400'

4/19

END ACQUISITION
Sta 456+76.83
MED/SUM-271-4.53/0.00

BEGIN ACQUISITION
Sta 456+76.83
SUM-271-0.50

Sta. 433+14.46 ℄I-271=
Sta. 7+78.87 ℄C.H. 2

MEDINA COUNTY
SUMMIT COUNTY

Richfield Twp.
Bath Twp.

RICHFIELD TWP
T-4N R-12W

BATH TWP
T-3N R-12W

Medina Line Rd. C.H. 2
Everett Rd. C.H. 47
Southern Rd. C.H. 194

LA R/W
R/W

Lot-1
Lot-2
Lot-3
Lot-15
Lot-16
Lot-17
Lot-18

410
420
430
450
460

The Cleveland Metropolitan Park Association
Overdale Acres
J.M. Garman
A.J. & A.M. Chopka
J.M.G. Garman
J.H. Caufield
E.C. McCormick
D.L. & J.R. Griggs
J. & B. Szereto
F.F. Hess
E.A. Hess
Kenneth J. & Margaret J. Taucher
Peter & Mary Shroba
Arthur & John Nitti
Fern E. Cass
Donald J. & Fern E. Cass
F. Domain
Joseph R. & Antoinette B. Wajda
J.R. & R. Fox
Steve J. & Virginia T. Wargo
Alfred Hoppe
Iron Pipe
Frank Zodnik
G. Felker
C.J. Jr. & A.H. Geraci
J.V. Nesbit
F. Zodnik
A.M. Kestar
Gustav C. & Leona F. Stobbe
L.E. & W.D. Rubright
Mildred Bayus
J.D. & M.C. Clark
J.D. & C.M. Clark
R.M. McClellan
L.W. & O.I. Remmy
T. & M.F. Prezeworski
E. & H. Harshbarger
E.E. & E. Davis
G.L. Lemon
E. Davis
S. & L. Dickson
C. & S. Stone
R.R. Milburn
A. & D. Browning
S. Lojek
A.P. Feldman
C. & D. Prentiss
W.B. & M.M. Kirby
A. Repp
A.H. & M.E. Lepke
J. Bigelow
A. & H.M. Smith
J. Kern
W.L. & F.M. Fry
O.E. Cover
A.M. Horn
V.W. Gore
E.S. Norris
D.D. & D.R. Hallick
L.E. & B.E. Wybel
R.F. & T.I. Watson
R.W. & C. Arnold
R.D. & M.L. Brown
V.D. & M.B. Kniss
D.J. Laughman & B.W. Bierce
L. Cooper
W.F. & M.G. Wisnieski

Legend
Buildings

AUG 16 1980

REVISIONS

R/W PLAN PROPERTY MAP

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

164/178

5/19

MEDINA COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1"=50'

MEDINA COUNTY
GRANGER TWP
REMSEN TRACT LOTS 7, 8, 13, & 14
T-3N R-13W

FRANK & LUCILLE E. HARRIS

NELLIE GAIDUK
(36)
No R/W Required

Iron Pin, Found and Used
N 89°-22'-50" E

LOT 7
LOT 8
LOT 14
LOT 13

270+05.01
238.50'

63.03'

269+94.61
176.44'

Landlocked Parcel
0.17 Ac.±

N 89°-11'-49" E

272+40.0
202.35'

L.A. R/W

N 74°-44'-25" E

252.12'

Type 47 Fence

179.01'

242.04'

℄

Woods

℄ Survey I-271

Curve #3

ACQUIRED UNDER MED-271-0.00

(33-WL)

BEGIN WIDTH 269+33

351.73'

(38 WL)

270

END ACQUISITION
STA. 269+64.25
MED-271-0.00

BEGIN ACQUISITION
MEDINA/SUMMIT-271-
4.53/0.00

End Sheet, Sta. 272+00

Limit of Construction

Woods

Type 47 Fence

Field

IAPA 269+33.83
169'

S 79°-14'-22" W

269+33.83
170'

Type 47 Fence

L.A. R/W

555.89'

Cultivated

N 00°-26'-03" W

JOHN A. & IVA CODDING

EVERETT E. & ALICE R. INGALLS
(38 WL)
Cont. 12.13 Ac.±

Curve # 3
P.I. Sta. 235+62.79
Δ = 66°44'37" Rt.
D = 0°40'00"
R = 8,594.36'
L = 10,011.54'
T = 5,660.87'
E = 1,696.82'

TYPE OF FUNDS
INTERSTATE FUND
AUG 1 8 1980

REVISIONS

ESTIMATED QUANTITIES
I-25 Type 47 Woven Wire Fence = 475 Lin. Ft.

MED-271-4.53

R/W PLAN STA. 258+00 to 272+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

165
178

MEDINA COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1"=50'

6
19

MEDINA COUNTY
GRANGER TWP.
REMSEN TRACT LOTS 8 & 13
T-3N . R-13W

END PROJECT
MED-271-0.00

BEGIN PROJECT
Sta. 272+00.00
MED/SUM-271-4.53/0.00

NELLIE GAIDUK
36
No R/W Required

ROY ALBERT & BARTHA CATHERINE Van DUESEN
37
WL
Cont. 0.45 Ac. ±

EVERETT E. & ALICE R. INGALLS
38
WL
Cont. 12.13 Ac. ±

272+40.0
202.35

Limit of Constr.

LA R/W

Type 47 Fence

N 89°-11-49" E 689.72'

P.T. 279+13.46
136.22'

LOT 8

LOT 13

LA R/W

282+61.82
116.42

N 82°-02-09" E

LA R/W

566.05'

Woods

48" ϕ

MED-271-4.55

Begin Sheet, Sta. 272+00

274+45

275

Curve # 3

280

℄ Survey I-271
N 85°-56'-38" E

285

Cultivated Field

P.T. 279+13.46

Limit of Constr.

Type 47 Fence

LA R/W

555.89' S 79°-14'-22" W

407.17' S 81°-45'-07" W

586.54'

LA R/W

S 85°-56'-38" W

301.80' N 89°-18'-14" W

275+00.0
150.0'

P.T. 279+13.46
130.0'

285+00.0
130.0'

End Sheet, Sta. 287+00

910.78' N 89°-11-49" E

561.85'

Curve # 3
P.I. Sta. 235+62.79
Δ = 66°-44'-37" Rt.
D = 00°-40'-00"
R = 8,594.36'
L = 10,011.54'
T = 5,660.87'
E = 1,696.82'

ESTIMATED QUANTITIES
I-25 Type 47 Woven Wire Fence = 3,080 Lin. Ft.

TYPE OF FUNDS
INTERSTATE FUND

REVISIONS

MED-271-4.53

R/W PLAN STA. 272+00 to 287+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

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178

MEDINA COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1"= 50'

7
19

ORA W. & INA M. VAN DUESEN
37 A

MEDINA COUNTY
GRANGER TWP.
REMSEN TRACT LOTS 8,9,12,13
T-3N R-13W

ROY ALBERT & BARTHA
CATHERINE VAN DUESEN
37 WL
Cont. 0.45Ac.±

LORETTA S. McCLAIN
39 WL
Cont. 1.93 Ac.±

FRANK J. JR. & NANCY E. KALFAS
40 WL
Cont. 0.75Ac.±

HERBERT O. KAMPS
41 WL
Cont. 2.42 Ac.±

LOT 8
LOT 9
Woods
Cultivated Field
Cleared Area

N 00°-58'-42" W
288+26.56
155.0'
173.73'
290+00.0
165.0'
566.05' N 82°-02'-09" E
N 82°-38'-42" E
500.22' N 87°-39'-42" E
Type 47 Fence
LA R/W
295+00.0
150.0'
202.19' N 85°-56'-38" E
297+02.19
150.0'
271.20'
N 85°-56'-38" E
299+73.39
150.0'
426.61' N 85°-56'-38" E
LA R/W
Limit of Constr.
MED-271-4.88
70.56'
Post
288+22.77
84.54'
561.85'
910.78'
N 89°-11'-49" E
392.70' (392.37' Deed)
873.45'
292+14.85
62.58'
N 89°-09'-01" E
1,467.36'
N 89°-09'-01" E
114.54'
N 00°-22'-50" W
296+94.85
35.69'
129.71'
N 00°-22'-50" W
299+65.07
20.55'
270.64'
715.97'
84.90'
N 01°-11'-41" E
288+15.0
290
290+56
42"Φ
62.86'
292+08.88
295
℄ Survey I-271
N 85°-56'-38" E
300
Begin Sheet Sta. 287+00
End Sheet Sta. 301+00
240.55'
N 01°-23'-41" E
236.72'
173.86'
301.80' N 89°-18'-14" W
288+00.76
155.0'
300.28' N 89°-16'-50" W
LA R/W
92.62'
291+00.0
180'
291+92.36
173.07'
308.50'
S 81°-39'-17" W
295+00.0
150.0'
Type 47 Fence
1,170.62'
LA R/W
S 85°-56'-38" W

EVERETT E. & ALICE R. INGALLS
38 WL
LOT 13
Cont. 12.13Ac.±

LOT 12

HAROLD W. & ETHEL ALBER
42 WL
Cont. 2.19Ac.±

JOHN A. & IVA M. CODDING
43 WL
Cont. 5.88 Ac.±

TYPE OF FUNDS
INTERSTATE FUND

REVISIONS

ESTIMATED QUATITIES
I-25 Type 47 Woven Wire Fence = 2,800 Lin. Ft.

MED-271-4.53

R/W PLAN STA. 287+00 to 301+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

167
178

MEDINA COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1" = 50'

8
19

MEDINA COUNTY
GRANGER TWP.
REMSEN TRACT LOTS 9,10,11,12
T-3N R-13W

HERBERT O. KAMPS
41 WL
Cont. 2.42 Ac.±

VINCENTIAN SISTERS OF CHARITY
OF THE DIOCESE OF CLEVELAND
45 WL
Cont. 4.01 Ac.±

Cultivated Field

W o o d s

LOT 9

LOT 10

N 0°-22'-50" W

304+00.0
150.0'

306+90.17
140.0'

313+00.0
140.0'

426.61' N 85°-56'-38" E

290.34' N 87°-55'-06" E

609.83' N 85°-56'-38" E

318.80'

L A R/W

N 84°-08'-46" E

Type 47 Fence

Limit of Constr.

159.83'

Trail to be abandoned

Ohio Fuel Gas Co. Easement unknown

G line

41 WL

45 WL

Begin Sheet Sta. 301+00

End Sheet Sta. 315+00

306+47.00

306+81.17

+31.86

715.97'

305

310

℄ Survey I-271

1467.36 N 89°-09'-01" E

19.55'

N 85° 56' 38" E

40°-59'-00"

306+79.92

19.51'

1,595.92'

925.94'

N 89°-17'-41" E

Cleared Area

43 WL

44 WL

Logging Track, to be abandoned

Limit of Constr.

Type 47 Fence

130.82'

N 00°-00'-56" E

1,170.62' S 85°-56'-38" W

L A R/W

329.98'

S 82°-28'-09" W

1,100.73' S 88°-01'-34" W

L A R/W

306+70.62
150.0'

310+00.0
130.0'

W o o d s

LOT 12

LOT 11

JOHN A. & IVA M. CODDING
43 WL
Cont. 5.88 Ac.±

BERNARD A. & LaVONNE E. KRUEGER
44 WL
Cont. 3.07 Ac.±

Gas Well

Gas & Oil Well

ESTIMATED QUANTITIES
I-25 Type 47 Woven Wire Fence = 2,800 Lin. Ft.

TYPE OF FUNDS
INTERSTATE FUND

REVISIONS

MED-271-4.53

R/W PLAN STA. 301+00 to 315+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

168
178

MEDINA COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1"=50'

9
19

MEDINA COUNTY
GRANGER TWP.
REMSEN TRACT LOTS 10, 11, 83 & 98
T-3N R-13W

Vincentian Sisters of Charity
of the Diocese of Cleveland
45

Woods

ELLEN LOUISE KREKE
46 WL
Cont. 5.36 Ac.±

Gas Well

Cultivated

MARY M. & HARRY C. STRECK
47

LOT 10

LOT 98

316+18.64
150'

325+43.55
155'

328+00
175'

N84°-08'-46"E
318.80'

L A R/W
924.92'
N85°-38'-02"E

257.23'
N81°-29'-05"E
301.04'
S89°-17'-32"E

Type 47 Fence

Limit of Constr.

45 WL
Cont. 4.01 Ac.±

46 WL

Fr. Shed

Begin Sheet Sta. 315+00

150.31'
N00°-22'-50"W

73.78'
224.09'

+09.00

N 85° 56' 38" E

320

℄ Survey I-271

325
+32.90

N00°-07'-30"W

End Sheet Sta. 329+00

925.94'

316+04.27
73.63'

1595.92'
N89°-17'-41"E

921.44'

127.79'
283.16'

47 WL

Location to be monumented.
Stone (Fnd. & Used)

Limit of Constr.
℄ Type 47 Fence

Trails To Be Abandoned

44 WL

322+73.11
112.79'

53.31'

N89°-17'-41"E
251.46'
(Deed)

325+24.14
127.49'

578.18'
S 84°-57'-11"W

1100.73'
S88°-01'-34"W

L A R/W
169.52'

L A R/W
252.51'
S 84°-35'-10"W

32.59'

BERNARD A. & LaVONNE E.
KRUEGER
44 WL
Cont. 3.07 Ac.±

321+00
170'

322+69.47
165.98'

N00°-08'-24"W

325+21.91
160'

166.32' (Deed)

Logging Trails

LOT 11

LOT 98

LOT 83

Woods

325+12.73
293.41'

TYPE OF FUNDS
INTERSTATE FUND

REVISIONS

ESTIMATED QUANTITIES
I-25 Type 47 Woven Wire Fence = 2,800 Lin. Ft.

MED-271-4.53

R/W PLAN Sta. 315+00 to 329+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

169
178

MEDINA COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1"=50'

10
19

MEDINA COUNTY
GRANGER TWP
LOTS 83 & 98
T-3N R-13W

P.I. #1 Sta. 43+15.00
Δ=17°13'-30"
D= 4°-30'
R=1,273.24'
L= 382.77'
T= 192.84'
E= 14.52'

N87°22'-38"E 125.34' S02°37'-22"E 263.09' S87°22'-38"W
Begin Work 44+30
44+50.0 28.84
P.T. 45+04.93
45+75.0 50.0 80.0
46+15.0 50.0
40' 30' 30' 40'
Sta. 46+50
R/W S11°48'-16"E
Exist. R/W
P.I. #1
S02°37'-22"E 335.02'
54.97' S89°50'-57"W 300.03'
45'
Exist. R/W
59.71' N16°55'-01"E 31.21'
44+50 @ 118'
2 Sty. Fr. Res
Gr. Drive
Filter Bed
Septic Tank
Artesian well 1,000 gal. tank
44+50.00
45+04.93 50.0'
R/W 337.32' N02°37'-22"W
MATCH LINE Sta. 46+50
47
49
49 T
49 WL
47 T
331+00.0 150.0'
333+00.0 270.0'
333+00.0 150.0'
335+00.0 150.0'
N 66°39'-14" E 211.90'
301.04' S 89°17'-32"E 200.0'
Type 47 Fence
400.0' N 85°56'-38" E
70.0' S04°03'-22"E
Orchard - 10"-16" Apple, 23 trees
386.56' N 84°27'-38"E
338+36.37 @ 158.70 ℄ I-271
48+42.50 @ 50.0' ℄ C.H. 44
337.57' N02°37'-22"W R/W
48 ℄ C.H. 44
335.02'
R/W S02°37'-22"E
338+86.42 @ 160.0' ℄ I-271
48+39.95 ℄ C.H. 44
263.09'
339+36.45 @ 160.60' ℄ I-271
48+38.09 @ 50.0' ℄ C.H. 44
343+00.0 165.0'
500.22' N87°39'-42"E
LA R/W
413.60' N 85°-15'-07"E
Limit of Constr.
Ohio Edison Co.
50.03'
111.06'
338+83.65 @ 48.98 ℄ I-271
49+51.01 ℄ C.H. 44
338+82.42 ℄ I-271
50+00.00 ℄ C.H. 44
1,119.12'
N 89°-07'-20" E
88°-34'-00"
JAMES D. REASNER
Cont. 3.85 Ac.±
P.R.O. 0.08 Ac.±
Total 3.93 Ac.±
Cont. 0.14 Ac.±
P.R.O. 0.27 Ac.±
Total 0.41 Ac.±
Cont. 0.02 Ac.±
W o o d s
MED-271-5.65
330
335
340
℄ Survey I-271
N 85°56'38"E
C u l t i v a t e d F i e l d
T r e e s
Begin Sheet Sta. 329+00
End Sheet, Sta. 344+00
Shed
338+38.25 @ 165.89 ℄ I-271
51+66.95 @ 40.0' ℄ C.H. 44
STATE RD. 328.66'
217.60'
338+78.20 @ 168.55' ℄ I-271
51+68.61 ℄ C.H. 44
339+23.14 @ 171.35 ℄ I-271
51+70.48 @ 45.0' ℄ C.H. 44
339+63.08 @ 174.21 ℄ I-271
51+72.14 @ 85.0 ℄ C.H. 44
50
50 WL
Limit of Constr.
S 84°-57'-11" W 578.18'
Type 47 Fence
165.02'
500.0' S 85°-56'-38" W
LA R/W
278.82' S 89°-45'-29" W
329+35.0 152.85'
N 04°-03'-22" W 97.15'
S 17°-44'-44" W 53.85'
S 30°-00'-00" W 120.85'
331+00.0 150.0'
329+90.0 200'
329+70.0 250.0'
329+35.0 250.0'
35.0' S85°-56'-38" W
336+00.0 150.0'
337+00.0 @ 156.61 ℄ I-271
51+61.19 @ 118.44 ℄ C.H. 44
138.56'
159.30'
N 62°-58'-13" W
73.05'
108.05'
40.04'
45.04'
40.04'
322.51'
S 89°-45'-29" W
600.34' S 87°-51'-12" W
342+00.0 190.0'
47 T-1
47 T-2
47 A
50 T
106.39'
104.52'
83.12'
S 26°08'-40" W
52+40.0 @ 40.0'
52+75.0 @ 40.0'
52+45.0 @ 45.0'
52+75.0 @ 45.0'
S 87°-22'-38" W
40.0'
45.0'
60'
38'
Exist. R/W
S 02°-37'-22" E
52+75.0 ℄ End Work
MARY M. & HARRY C. STRECK
LOT 98
LOT 83
Cont. 9.65 Ac.±
P.R.O. 0.23 Ac.±
Total 9.88 Ac.±
Cont. 0.16 Ac.±
P.R.O. 0.27 Ac.±
Total 0.43 Ac.±
Cont. 0.16 Ac.±
Cont. 0.02 Ac.±
P.R.O. 0.07 Ac.±
Total 0.09 Ac.±
Cont. 0.17 Ac.±
Cont. 0.11 Ac.±
ESTIMATED QUANTITIES
I-25 Type 47 Woven Wire Fence = 1,370 Lin. Ft.
ARTHUR A. & ELMER A. PIMSNER
Cont. 5.26 Ac.±
P.R.O. 0.15 Ac.±
Total 5.41 Ac.±
Cont. 0.03 Ac.±
P.R.O. 0.07 Ac.±
Total 0.10 Ac.±
Cont. 0.03 Ac.±

TYPE OF FUNDS
INTERSTATE FUND

REVISIONS

MED-271-4.53

R/W PLAN STA. 329+00 to 344+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

170
178

11
19

MEDINA COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1"=50'

MEDINA COUNTY
GRANGER TWP.
LOTS 98, 99
T-3N R-13W

CURVE #4
P.I. Sta. 382+90.47
Δ = 29°-00'-19" Lt.
D = 0°-28'-00"
R = 12,277.67'
L = 6,215.42'
T = 3,175.82'
E = 404.09'

LOT 98

LOT 99

JAMES D. REASNER

49
WL

Cont. 3.85 Ac.±
P.R.O. 0.08 Ac.±
Total 3.93 Ac.±

Woods

SAMUEL & PATRICIA OLDFIELD

52
WL

Cont. 11.43 Ac.±

348+00
150.00

349+00
230.00

350+26.18
230.00

P.C.
230.00

353+50
227.79

355+00
150'

500.22' N87°-39'-42"E

LA R/W

Type 47 Fence

N47°-17'-00"E
128.06'

126.18'

88.47'

LA R/W
230.96'

S67°-43'-42"E
166.92'

870.82' N77°-28'-51"E

Limit of Constr.

49
WL

52
WL

Cultivated

Begin Sheet, Sta. 344+00

1119.12' N89°-07'-20"E

345

+65.71

350

+02.40

℄ Survey I-271

355

End Sheet, Sta. 358+00

N85°-56'-38"E

244.36'

424.85'

351+14.25
P.C.

50
WL

350+01.05
13.07'

Woods

180.49'

N01°-50'-46"E 193.63'

Limit of Constr.

Type 47 Fence

LA R/W

157.31'

N82°-24'-24"W

357+00
155'

183.32'

132.76'

593.80' S82°-09'-56"W

600.34' S87°-51'-12"W

S80°-29'-52"W

348+00
210'

349+82.49
192.60'

P.C.
180'

ARTHUR A. & ELMER A. PIMSNER

50
WL

Cont. 5.26 Ac.±
P.R.O. 0.15 Ac.±
Total 5.41 Ac.±

N89°-11'-30"E

LOT 98

LOT 99

Landlocked Parcel
13 Ac.±

LOT 83

LOT 82

O. STANLEY & ESTHER I. ALLARD

ESTIMATED QUANTITIES
I-25 Type 47 Woven Wire Fence = 2,110 Lin. Ft.

TYPE OF FUNDS
INTERSTATE FUND

REVISIONS

8.2445 for 52 Area on ft.

MED-271-4.53

R/W PLAN Sta. 344+00 to 358+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

171
178

MEDINA COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1" = 50'

12
19

MEDINA COUNTY
GRANGER TWP
LOT 99
T-3N R-13W

Curve #4
P.I. Sta. 362+90.47
Δ = 29°-00'-19" Lt.
D = 00°-28'-00"
R = 12,277.67'
L = 6,215.42'
T = 3,175.82'
E = 404.09'

Cultivated Field

870.82' N 77°-28'-51" E

LA R/W

Type 47 Fence

363+81.47
220.0'

Cultivated Field

116.40 N 79°-45'-20" E

365+00.0
220.0'

497.38' N 86°-24'-03" E

372+35.26
230.0'

359.13' N 79°-11'-14" E

370+00.0
150.0'

245.05' N 57°-32'-37" E

MED-271-6.44

MED-271-6.19

Begin Sheet, Sta. 358+00

End Sheet, Sta. 374+00

359+82

360

Curve # 4

+37.00

365

℄ Survey I-271

370

397.63' N 01°-27'-46" E

224.31'

456.10' N 05°-53'-04" E

243.81'

+52.39

108"

372+67

52 WL

53 WL

54 WL

Easement unknown
Ohio Fuel Gas Co.
2" Line

Easement unknown
Ohio Fuel Gas Co.
2" Pipe

Ohio Fuel Gas Co. G Line 7

Easement unknown

Farm Road To be abandoned

370+82.96
200.0'

157.31' N 82°-24'-24" W

461.13' S 78°-20'-46" W

Type 47 Fence

401.91' S 76°-37'-05" W

LA R/W

391.61' S 84°-59'-10" W

424.37' S 71°-43'-57" W

Cultivated Field

Woods

Gas Meter
367+00.0
150.0'

136.31'

98.93'

358+50.0
195.0'

363+03.74
170.0'

369+50.0
181.23'

N 47°-19'-59" W

89.62'

G2.33'

74.06'

42.87'

N 89°-03'-54" W

N 81°-44'-27" W

S 29°-13'-08" W

720.17'

371+80.0
191.72'

371+00.0
280.0'

370+00.0
255.0'

370+59.22
270.0'

℄

SAMUEL & PATRICA A. OLDFIELD

52 WL

Cont. 11.43Ac±

Landlocked Parcel
13 Ac.±

KAROL S. & AMELIA ADAMS

53 WL

Cont. 6.72Ac.±

53 T

Cont. 0.15Ac±

Landlocked Parcel
8.5 Ac.±

TANK

GREEN VALLEY OUTING CLUB INC.

54 WL
Cont. 12.80Ac±

54 T
Cont. 0.12Ac±

54 T-1
Cont. 0.05 Ac.±

54 T-2
Cont. 0.21 Ac.±

Landlocked Parcel
31 Ac.±

ESTIMATED QUANTITIES
I-25 Type 47 Woven Wire Fence = 3,390 Lin. Ft.

TYPE OF FUNDS
INTERSTATE FUND
AUG 16 1965

REVISIONS
8-24-65 For 52453 Breaon Ft.

MED-271-4.53

R/W PLAN STA. 358+00 to 374+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

172
178

13
19

MEDINA COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE : 1"=50'

CURVE #4
P.I. Sta. 382+90.47
Δ = 29°-00'-19" Lt.
D = 0°-28'-00"
R = 12,277.67'
L = 6,215.42'
T = 3,175.82'
E = 404.09'

MEDINA COUNTY
GRANGER TWP.
LOTS 99, 100
T-3N R-13W

LOT 99 LOT 100

Cont. 0.05 Ac.±

54 T-1

373+90 220 65'

374+35 260' N75°-01'-52"E

374+70 260' S15°-02'-52"E

374+70 215.11

N33°-29'-37"E 59.12'

34.25' 44.89' 76.78'

N 79°-11'-14" E 359.13'

376+00 205'

LA R/W N 77°-46'-45" E 593.26'

382+00 155'

N 71°-48'-43" E 296.31'

385+00 150'

Cont. 0.21 Ac.±

54 T-2

386+60 225'

N 44°-19'-00" E 174.49'

N 87°-37'-02" E 156.99'

388+11.28 175'

384.37' N 71°-30'-50" E

N 64°-45'-57" E 308.17'

Type 47 Fence

Limit of Constr.

Water

Begin Sheet, Sta. 374+00

375

℄ Survey I-271

380

Fr. Shed (Toilet)

1 Sty. Res. (Club House)

Volley Ball Court

Drives to be abandoned

MED-271-6.71

84"

1½ Sty. Fr. Res.

385

Fr. Shed (Toilet)

No sanitary facilities except outhouses

1 Sty. Fr. Res.

1 Sty. Fr. Res.

387+72 ℄ 191.41'

387+33.20

386+90

End Sheet, Sta. 389+00

54 WL

55 WL

Easement unknown

2 wires Ohio Edison Company

3 wires

Water Well (Drilled) 171.0

Fr. Shed

Fr. Shed (Toilet)

N 2°-46'-04" E

S 66°-58'-40" W 349.64'

386+55.40 180'

Limit of Constr.

Type 47 Fence

424.37' S 71°-43'-57" W

405.69' S 71°-03'-11" W

LA R/W

375+00 170'

379+00 150'

304.21' S 75°-04'-19" W

2'

462.01'

382+00 (650')

LA R/W S 72°-20'-32" W

Fr. Shed

Frame Cabin (Poor) No Foundation

1 Sty. Conc. Res.

LOT 99 LOT 100

GREEN VALLEY OUTING CLUB INC.

54 WL

Cont. 12.80 Ac.±

Landlocked Parcel
31 Ac.±

GUSTAV C. & LEONA F. STOBBE

55 WL

Cont. 11.06 Ac.±

Landlocked Parcel
25 Ac.±

ESTIMATED QUANTITIES
I-25 Type 47 Woven Wire Fence = 3,030 Lin. Ft.

TYPE OF FUNDS
INTERSTATE FUND

REVISIONS
10/7/65 Topo. on Par. 54 WL Corrected J.R.T.

MED-271-4.53

R/W PLAN Sta. 374+00 to 389+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

173
178

MEDINA COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1"=50'

14
19

CURVE #4
P.I. Sta. 382+90.47
Δ = 29°-00'-19" Lt.
D = 0°-28'-00"
R = 12,277.67'
L = 6,215.42'
T = 3,175.82'
E = 404.09'

MEDINA COUNTY
GRANGER TWP.
LOT 100
T-3N R-13W

LOT 100

REV. J. RICHARD GAFFNEY & FRANCIS M. GAFFNEY

IRENE E. HENLEY

Begin Sheet, Sta. 389+00

End Sheet, Sta. 404+00

384.37'
N 71°-30'-50" E
LA R/W
592.61'
N 65°-28'-45" E
521.95'
N 61°-44'-54" E
LA R/W

392+00 150

398+00 150

Limit of Construction

Type 47 Fence

Preston Oil Co.

Road (To be abandoned)

Farm

2" Oil Pipe Line Easement Unknown

℄ Survey I-271

390 395 400

403+28.57 280'

403+80 250.72'

S 88°-18'-47" E 58.21'

403+68.33 230.24'

55 T Cont. 0.06 Ac.±

403+28.57 160'

N 28°-23'-15" W 120.00'

S 61°-52'-52" E 0.52'

Water

120.16'

N 58°-50'-18" E

57 T Cont. 0.10 Ac.±

58

30' Easement

119.59'

10' Easement

57 WL Cont. 0.81 Ac.±

402+70.30 55.27'

(Deed) 398.58'

S 89°-35'-32" E

42"ø

403+23

402+40

55 WL

56 WL

364.49'

244.89'

181.90'

349.64'
S 66°-58'-40" W

506.78'
S 65°-30'-53" W

662.48'
S 63°-57'-10" W

LA R/W

390+00 170

395+00 160

Limit of Construction

468.61'
S 58°-54'-05" W

402+80 152.81'

70.94'

157.19'

N 28°-09'-32" W

45.77'

S 61°-43'-58" W

S 05°-43'-35" E 65.11'

403+50 149.38'

401+54.04 160'

N 00°-37'-43" E

56 T

402+80 210'

403+25 210'

GUSTAV C. & LEONA F. STOBBE

55 WL Cont. 11.06 Ac.±

55 T Cont. 0.06 Ac.±

Landlocked Parcel
25 Ac.±

ARTHUR NICHOLAS & ANN LOUISE STERENBERG

56 WL Cont. 1.11 Ac.±

56 T Cont. 0.07 Ac.±

ESTIMATED QUANTITIES
I-25 Type 47 Woven Wire Fence = 3,004 Lin. Ft.

AUG 8 1985

REVISIONS

TYPE OF FUNDS
INTERSTATE FUND

MED-271-4.53

R/W PLAN Sta. 389+00 to 404+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

174
178

MEDINA COUNTY SUMMIT CO.
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1"=50'

15
19

CURVE #4
P.I. Sta. 382+90.47
Δ = 29°-00'-19" Lt.
D = 0°-28'-00"
R = 12,277.67'
L = 6,215.42'
T = 3,175.82'
E = 404.09'

MEDINA COUNTY
GRANGER TWP.
T-3N R-13W
LOT 100

REV. J. RICHARD GAFFNEY & FRANCIS M. GAFFNEY
58 WL
Cont. 2.74 Ac.±

SUMMIT COUNTY
BATH TWP.
LOT 1
T-3N R-12W

SUMMIT COUNTY
RICHFIELD TWP.
LOT 1, TRACT 2
T-4N R-12W

PETER & MARY SHROBA
62
Cont. 0.11 Ac.±
P.R.O. 0.35 Ac.±
Total 0.46 Ac.±

62 T
Cont. 0.34 Ac.±

IRENE E. HENLEY
57 WL
Cont. 0.81 Ac.±

57 T
Cont. 0.10 Ac.±

59 T1
Cont. 0.26 Ac.±

62 WL

ARTHUR NICHOLAS & ANN LOUISE STERENBERG
56 WL
Cont. 1.11 Ac.±

MILDRED BAYUS
59 WL
Cont. 6.77 Ac.±
P.R.O. 0.22 Ac.±
Total 6.99 Ac.±

59
Cont. 0.10 Ac.±
P.R.O. 0.17 Ac.±
Total 0.27 Ac.±

59 T
Cont. 0.40 Ac.±

GUSTAV C. & LEONA F. STOBBE
60 WL
Cont. 0.53 Ac.±
P.R.O. 0.22 Ac.±
Total 0.75 Ac.±

WOODRUFF SUBDIVISION
TRACT XIII

Landlocked Parcel
0.15 Ac.±

Landlocked Parcel
13 Ac.±

SUM-271-0.02

Begin Sheet, Sta. 404+00
End Sheet, Sta. 419+00

LA R/W
Exist. R/W
Limit of Construction
Type 47 Fence
Ohio Edison Co. Easement unknown
Western Reserve Tele. Co.
Ohio Edison Co.
Metal Gate & wagon wheel
Drive to be abandoned
℄ Survey I-271
℄ Temporary Runaround
R/W of Temporary Runaround
For Continuation of C.H. 47 See Sheet No. 16
Water
Well
Septic Tank Filter Bed
1 Sty. Fr. Res.
1½ Sty. Fr. Res.
1 Sty. Fr. & Stone Res.
No Poles for Utilities.
Path
Footbridge
Iron Pin
Oil Tank
Deed 820-G
℄ Ohio Edison Co.
℄ 4" Gas Line
℄ 30' Easement for drive
10' E. - exempt for drive
℄ 4" Gas Valve
℄ 12" CMP
℄ 36" ϕ RD. C.H. 47
℄ 54" ϕ
℄ 8" Ohio Edison Co.
℄ 15" Ohio Edison Co.
LOT 91
LOT 100
LOT 1
R-12W
R-13W
T-4N
T-3N
RICHFIELD TWP.
BATH TWP.
GRANGER TWP.
MEDINA COUNTY
SUMMIT COUNTY

ESTIMATED QUANTITIES
I-25 Type 47 Woven Wire Fence = 3,115 Lin. Ft.

REVISIONS

TYPE OF FUNDS
INTERSTATE FUND

MED-271-4.53 / SUM-271-0.00

R/W PLAN Sta. 404+00 to 419+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

175
178

SUMMIT COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1"=50'

16
19

SUMMIT COUNTY
LOT 1
T-3N R-12W
BATH TWP

LOT 1
T-4N R-12W
RICHFIELD TWP

PETER & MARY SHROBA

62 WL — Cont. 10.73 Ac.± P.R.O. 0.58 Ac.± Total 11.31 Ac.±
62 A — Cont. 0.02 Ac.± P.R.O. 0.08 Ac.± Total 0.10 Ac.±
62 B — Cont. 0.24 Ac.± P.R.O. 0.27 Ac.± Total 0.51 Ac.±
62 — Cont. 0.11 Ac.± P.R.O. 0.35 Ac.± Total 0.46 Ac.±
62 T — Cont. 0.34 Ac.±

KENNETH J. & MARGARET J. TAUCHER

69 WL — Cont. 0.49 Ac.± P.R.O. 0.11 Ac.± Total 0.60 Ac.±
69 — Cont. 0.26 Ac.± P.R.O. 0.27 Ac.± Total 0.53 Ac.±
69 T — Cont. 0.34 Ac.±

For Continuation of C.H. 2 See Sheet No. 19

Begin Sheet, Sta. 419+00

687.38' — LA R/W — N53°-36'-09"E — 423+00 — 200

765.65' — LA R/W — N59°-30'-22"E

Limit of Constr.

Type 47 Fence

430+64.88 — 165.70'

N89°-25'-49"E

350.47'

299.66'

Fr. Shed

Barn

Barn

Drive to be abandoned

434+15.00 — 9+59.45 ℄ C.H.2 — 180.00' — Limit of Constr.

Exist. R/W

12" C.M.P.

Exist. R/W

N55°-13'-18"E — 320.56'

434+06.52 — 137.35' — 9+44.22 ℄ C.H.2

S89°-34'-41"E — 612.15'

Drive to be abandoned

174.88'

200.00' C.H.2

433+17.63 — 4.73' — 7+84.57 ℄ C.H.2

420 — 425 — ℄ Survey I-271 — 430

N56°-56'-19"E

56°-10'

I-271 =

432+95.17 — 28.78' — 7+44.22 ℄ C.H.2

433+14.46 ℄ I-271 = 7+78.87 ℄ C.H.2

186.28'

145.93'

MEDINA LINE RD.

274.08'

S89°-34'-31"E

Cont. 1.89 Ac.±
P.R.O. 0.14 Ac.±
Total 2.03 Ac.±

End Sheet, Sta. 435+00

N89°-24'-49"E — 633.22' — 342.54'

RICHFIELD TWP. LOT 1

S60°-04'-19"W 394.71'

102.03'

128.89'

402.77'

S60°-29'-51"W

Limit of Constr.

422+76.64 — 188' — 12+75.96 — 62.32'

S31°-05'-12"E

12+95 — 30'

131.96'

420+46.11 — 174.42' — 10+74.19 — 50'

421+48.00 — 180' — 11+63.14 ℄ C.H.47

421+74.12 — 196.62' — 11+94.10 ℄ C.H.47

11+09 — 170'

S89°-24'-49"W — 220.81'

50.00' — S60°-35'-11"E — 120.00' — 37.51'

30'

30'

EVERETT RD. C.H.47

Exist. R/W

℄ Temporary Runaround

R/W of Temporary Runaround

12+95 — 50'

Exist. R/W

14+07 — 30'

S62°-12'-10"E — 30'

BATH TWP. LOT 1

Cont. 0.78 Ac.±

425+50 — 205'

666.20'

Type 47 Fence

S52°-12'-10"W

LA R/W

431+37.44 — 156.34' — 5+50.05 — 60'

432+13.92 — 150' Rt. — 5+98.29 ℄ C.H.2

R/W

R Exist. R/W

5' — N00°-46'-19"E

Exist. R/W

Limit of Constr.

R/W

60'

311.28'

S62°-28'-08"W

LA R/W

432+93.05 — 6+35.99 — 70' — 157.66'

435+23.76 — 180'

WOODRUFF SUBDIVISION TRACT XIII

WOODRUFF SUBDIVISION TRACT XIV

Cemetery

For Continuation of C.H. 2 See Sheet No. 19

GUSTAV C. & LEONA F. STOBBE

60 — Cont. 0.09 Ac.± P.R.O. 0.11 Ac.± Total 0.20 Ac.±
60 WL — Cont. 0.53 Ac.± P.R.O. 0.22 Ac.± Total 0.75 Ac.±
60 T — Cont. 0.78 Ac.±

JOSEPH R. & ANTOINETTE B. WAJDA

68 WL — Cont. 0.35 Ac.± P.R.O. 0.10 Ac.± Total 0.45 Ac.±
68 — Cont. 0.25 Ac.± P.R.O. 0.18 Ac.± Total 0.43 Ac.±
68 T — Cont. 300 Sq. Ft.±

ESTIMATED QUANTITIES
I-25 Type 47 Woven Wire Fence = 2,580 Lin. Ft.

REVISIONS

TYPE OF FUNDS
INTERSTATE FUND

SUM-271-0.00

R/W PLAN Sta. 419+00 to 435+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

176/178

MED-271-4.53
SUM-271-0.00
LIMITED ACCESS
SCALE: 1"=50'

17/19

See Sheet 19 for Medina Line Rd.

℄ MEDINA LINE RD. CH. 2

Exist. R/W

FERN E. CASS

65 T — Cont. 0.03 Ac.±

66 T — Cont. 0.49 Ac.±

65 AWL — Cont. 0.28 Ac.±

65 — Cont. 0.16 Ac.±, P.R.O. 0.14 Ac.±, Total 0.30 Ac.±

65 T-1 — Cont. 0.14 Ac.±

1½ Sty. Fr. Res.

Drive to be abandoned

Drive

310' 438+00

280' 437+00

448.12' 220.82'

95.44' 436+61.23

Water

216.10' 436+50

157.04' 436+50

163.8' 438+80

440+82.27 170'

SUMMIT COUNTY
RICHFIELD TWP.
LOT 1
T-4N R-12W

DONALD J. & FERN E. CASS

65 WL — Cont. 2.60 Ac.±

ARTHUR & JOHN NITTI

72 — Cont. 0.06 Ac.±, P.R.O. 0.20 Ac.±, Total 0.26 Ac.±

445+00 185'

---N 54°-52'-58"E---418.00'---

LA R/W

---N55°-57'-18"E---874.33'---

LA R/W

Limit of Constr.

Drive to be abandoned

N 55°-13-18" E 320.56

226.88'

120.12'

Type 47 Fence 439+60.36 167.62'

130.64'

S 0°-25'-11"E

187.39'

437+35.42 159.60'

438+91.72 56.23'

510.90'

48"

SUM-271-0.65

1 Sty. Fr. Res. Septic tank & field

Water

Fr. Shed

675.08'

439+76.73

DONALD J. CASS & FERN E. CASS

N 56°56'19"E

1193.95'

445+08.41

℄ Survey I-271

Begin Sheet, Sta. 435+00

End Sheet, Sta. 450+00

440

487.69'

S 89°-34'-51"E

610.0'

443+00

443+39.33

Shed

436+14.16

65 WL

72 WL

67 WL

66 WL

612.15'

111.82' 445+08.41

S 33°-03'-41"E

168.92' (188.90' deed)

71 WL

446+66.01 216.04

S 62°-28'-08"W

274.08'

311.28'

393.85'

Type 47 Fence

Limit of Constr.

S 59°-54'-05"W 283.28' 98.52' 147.38' 203.53' S 55°-39'-49"W

LA R/W

LA R/W

S 57°-58'-44"W

550.78'

435+23.76 180'

68 WL

Cont 0.35 Ac ±
P.R.O. 0.10 Ac ±
Total 0.45 Ac ±

(1062.37 deed)

S 89°-34'-41"E

439+17.08 200.36'

442+00 215'

442+98.49 212.81'

Landlocked Parcel Cont. 1.29 Ac.±

Landlocked Cont. 0.11 Ac.±

122.31'

84.02'

444+45.83 209.53'

446+49.31 205'

S 89°-35'-01"E

448+23.57 320.24'

Landlocked Parcel 10.89 Ac.±

444+00.51 280.28'

(200.5 deed)

S 00°-25'-11"E

116.03'

(200.05' deed)

Landlocked Parcel 2.86 Ac.±

JOHN RUSSELL & RUTH FOX

66 — Cont. 0.13 Ac.±, P.R.O. 0.12 Ac.±, Total 0.25 Ac.±

66 WL — Cont. 3.00 Ac.±, P.R.O. 0.02 Ac.±, Total 3.02 Ac.±

66 T — Cont. 0.03 Ac.±

(1323.09' deed)

(200.05' deed)

FRANK ZODNIK

71 WL — Cont. 0.22 Ac.±

GEORGE FELKER

(1319.88' deed)

S 89°-34'-31"E

(1067.16' deed)

JOSEPH R. & ANTOINETTE B. WAJDA

68 WL

FRANK DOMAIN

67 WL — Cont. 1.89 Ac.±, P.R.O. 0.14 Ac.±, Total 2.03 Ac.±

C.J. JR. & A.H. GERACI

GEORGE FELKER

ESTIMATED QUANTITIES
I-25 Type 47 Woven Wire Fence = 3,050 Lin. Ft.

SUMMARY FENCE QUANTITIES

Sht. No.	Sta.	to	Sta.	Lin. Ft.	Sht. No.	Sta.	to	Sta.	Lin. Ft.
5	258+00		272+00	475	12	358+00		374+00	3,350
6	272+00		287+00	3,080	13	374+00		389+00	3,030
7	287+00		301+00	2,800	14	389+00		404+00	3,004
8	301+00		315+00	2,800	15	404+00		419+00	3,115
9	315+00		329+00	2,800	16	419+00		435+00	2,580
10	329+00		344+00	1,370	17	435+00		450+00	3,050
11	344+00		358+00	2,110	18	450+00		465+00	1,440
					TOTAL				35,044

TYPE OF FUNDS
INTERSTATE FUND

REVISIONS
1-3-66 Rev. Par: 65-T, 65-T-1

SUM-271-0.00

R/W PLAN Sta. 435+00 to 450+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

177
178

SUMMIT COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1"=50'

18
19

SUMMIT COUNTY
LOTS 1,2,17,18
T-4N R-12W

I-271-G(14)224 | I-271-G(15)

END PROJECT STA. 452+00 | SUM-271-0.50

Begin Sheet, Sta. 450+00

N55°-57'-18"E 874.33' LA R/W

2'

453+74.20
200.0'

54.42'

454+19.60
170.0'

LA R/W

LA R/W

Limit of Const.

LOT-2

END WORK STA 460+38

583.20'

+76.83
℄ I-271 Survey
N 5G°5G'19"E

455

460

Shed

+25.00

86.37'

℄ LA R/W

57G.39'

N57°48'-15"E
GG2.05'

N00°33'-19"E
204.14'

End Sheet, Sta. 465+00

S89°-3G'-05"E

N00°33'-5G"E
115.4G

S89°-39'-37"E
181.GO'

459+0G.15
151.55'

459+50.71
181.0'

53.41'

N55°-1G'-00"E

100.21'

Iron pins

179.5G'

LA R/W

377.04'

N55°-21'-05"E-541.G1'

S89°-57'-24"E
445.95'

S57°-58'-44"W 550.78'

S52°-5G'-04"W

LA R/W

501.23'

3G4.78'

S6 8°-1G'-22"W

457+00.0
180.0'

LOT-1

128.21'

115.50'

460+57.67
251.G9'

Ohio Edison Co.

LOT-17

LOT-18

S89°-58'-18"E

LA R/W

N00°-15'-19"E

416.81'

452+00.0
215.0'

ARTHUR & JOHN NITTI

72

72
WL

Cont. 0.0G Ac.±
PRO 0.20 Ac.±
Total 0.2G Ac.±

Cont. 12.06 Ac.±

(10.89 Ac.± L.L.)

END ACQUISITION MED-271-4.53 | BEGIN ACQUISITION SUM-271-0.50

TYPE OF FUNDS
Interstate Fund

AUG 1 0 1965

REVISIONS

Estimated Quantities
I-25 Woven wire fence, Type 47
1,440 Lin. Ft.

R/W PLAN Sta. 450+00 to 465+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

178
178

19
19

MED-271-4.53
SUM-271-0.00
LIMITED ACCESS
SCALE: 1"=50'

SUMMIT COUNTY
LOT 1
T-4N R-12W

G9 WL — Cont. 0.49 Ac.± P.R.O. 0.11 Ac.± Total 0.60 Ac.±

G9 — Cont. 0.26 Ac.± P.R.O. 0.27 Ac.± Total 0.53 Ac.±

G9 T — Cont. 0.37 Ac.±

G2 WL — Cont. 10.73 Ac.± P.R.O. 0.58 Ac.± Total 11.31 Ac.±

PETER & MARY SHROBA

70 — Cont. 0.04 Ac.± P.R.O. 0.12 Ac.± Total 0.16 Ac.±

ALFRED HOPPE

P.I. Sta. 2+78.00
Δ = 2°-18'-30"
No Curve

LA R/W

N52°-12'-10"E

N59°-30'-22"E

KENNETH J. & MARGARET J. TAUCHER

Fr. Shed

Barn

Barn

Shed

Barn

Do Not Disturb

Dug Well 200' 10+45

Cistern

2 Sty. Fr. Res.

Drilled Well 9+55 70'

Septic System

Septic Tank

2 Sty. Fr. Res.

ELSIE A. HESS

G3 — Cont. 0.06 Ac.± P.R.O. 0.20 Ac.± Total 0.26 Ac.±

N89°-25'-49"E

Exist. R/W

R.D.

0+27.50
40'

1+00
40'

72.50'
N3°-04'-49"E

N3°-20'-44"W

N89°-24'-49"E

1+88.80
50'

2+78
60'

G2 B — Cont. 0.24 Ac.± P.R.O. 0.27 Ac.± Total 0.51 Ac.±

N3°-29'-34"W

87.36'

89.36'

Farm Dr.

Limit of Constr.

Exist. R/W

20°

3+44.22 ℄

15" VSP

18"

1+92.00 ℄

86.00'

320.29'

N00°-46'-19"E

2540'

(400.0' deed)

Western Reserve Tel. Co.
Ohio Edison Co.

Exist. R/W

G6.22

58

24

16

12

12" VSP

0+30.06 ℄

Iron Pipe Lot Cor.

N3°-04'-49"E 161.04

Medina Line

EVERETT

S89°-24'-49"W

0+00.0 ℄ Medina Line

2+20
30'

S19°-23'-03"W 132.73'

3+44.63
70'

S89°-24'-49"W
30.0'

LOT 1
RICHFIELD TWP

STEVE J. & VIRGINIA T. WARGO

Cont. 0.04 Ac.±
P.R.O. 0.09 Ac.±
Total 0.13 Ac.±

G4

G4

70

70

G8

G8 T

G8 WL

R/W

291.36'

N89°-13'-41"W
10.00'

S89°-13'-41"E
10.00'

S0°-46'-19"W
30.00'

4+73
70'

4+73
80'

S0°-46'-19"W

4+43
70'

4+43
80'

G+35.99@70'
432+93.05@157.66'

N62°-28'-08"E

N89°-34'-31"W

JOSEPH R. & ANTOINETTE B. WAJDA

G68 WL — Cont. 0.35 Ac.± P.R.O. 0.10 Ac.± Total 0.45 Ac.±

G68 — Cont. 0.25 Ac.± P.R.O. 0.18 Ac.± Total 0.43 Ac.±

G68 T — Cont. 300 Sq. Ft.±

430

N56°-56'-19"E

433+14.46 ℄ I-271
7+78.87 ℄ C.H.2
℄ I-271

431+37.44@150.34'
5+50.45@60'

5+98.25 ℄
432+13.92@150'

56°-10'

433+44.88@153.14'

12 CMP

(200' deed)

N21°-36'-36"W 138.31'

Drive to be abandoned

Drive to be abandoned

Drilled Well 9+55 70'

255' 9+55

255' 10+00

205' 11+00

210' 9+55

155' 11+00

70' 11+00

50'

120' 11+75

11+75
60'

N0°-46'-19"E 251.28'

Cellar Drain

434+15.00@150'

9+50.45 ℄
(deed 560.0')

℄ MEDINA LINE RD. CH. 2 Exist. R/W

184.77'

(200.0' deed)

11+44.22 ℄

Exist. R/W

℄ 11+44.65

70'

135.18'

S0°-46'-19"W

435+01.00@152.58'

10+09.47@70'

N89°-34'-51"W

Cont. 0.16 Ac.±
P.R.O. 0.20 Ac.±
Total 0.36 Ac.±

G5 T-1

G5

G6

G6

70.35'

R/W

12+15
70'

12+25
155'

12+50
155'

N89°-25'-49"E

N4°-10'-12"E 168.70'

R/W

N4°-45'-50"E 287.30'

℄ 13+43.40

℄ 13+44.57

50'

13+44.22 ℄

℄ 13+44.53

16+30
35'

30'

16+30
30'

285.43'

285.78'

200.00'

S3°-14'-06"E 286.16'

S89°-13'-41"E

S58°-00'-20"E 137.07'

Limit of Constr.

72

72

Septic Tank

2 Sty. Fr. Res.

Septic Tank

Well

1-Sty. Fr. Res.

Drive

Septic Tank

JOHN RUSSELL & RUTH FOX

Drive

Well

1½ Sty. Fr. Res.

ARTHUR & JOHN NITTI

G7 WL — Cont. 1.89 Ac.± P.R.O. 0.14 Ac.± Total 2.03 Ac.±

FRANK DOMAIN

GG T — Cont. 0.03 Ac.±

Water

Water

FERN E. CASS

G5 T

G5 AWL

GG WL — Cont. 3.00 Ac.± P.R.O. 0.02 Ac.± Total 3.02 Ac.±

G5 WL — Cont. 2.60 Ac.±

G6 — Cont. 0.13 Ac.± P.R.O. 0.12 Ac.± Total 0.25 Ac.±

LA R/W

LA R/W

LA R/W

TYPE OF FUNDS
INTERSTATE FUND
AUG 1 6 1965

REVISIONS
1-3-66 Rev. Par. 65-T, 65T1 & Par. 69-T

SUM-271-0.00

R/W PLAN MEDINA LINE RD. C.H. 2

RECEIVED
MAY 10 1965

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
MED-271-4.53
SUM-271-0.00

MEDINA & SUMMIT COUNTIES

GRANGER, RICHFIELD & BATH TOWNSHIPS

I-271-6(14)225

All reference to Federal No. I-271-6(14)224 appearing in this plan shall be considered to be I-271-6(14) 225.

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	I-271-6(14225

MEDINA AND SUMMIT COUNTIES
MED-271-4.53
SUM-271-0.00

CONVENTIONAL SIGNS

COUNTY LINE
TOWNSHIP LINE
SECTION LINE
CORPORATION LINE
CENTER LINE
FENCE LINE
POWER POLES
TELEPHONE POLES
GUARD RAIL--EXISTING
GUARD RAIL--PROPOSED
SOD DITCHES
PAVED DITCHES
SEED & MULCH DITCHES
DUMPED ROCK
JUTE MATTING
RIGHT OF WAY WITH LIMITED ACCESS — LA
RIGHT OF WAY WITHOUT LIMITED ACCESS — R/W
EXISTING RIGHT OF WAY
CONSTRUCTION LIMIT LINE

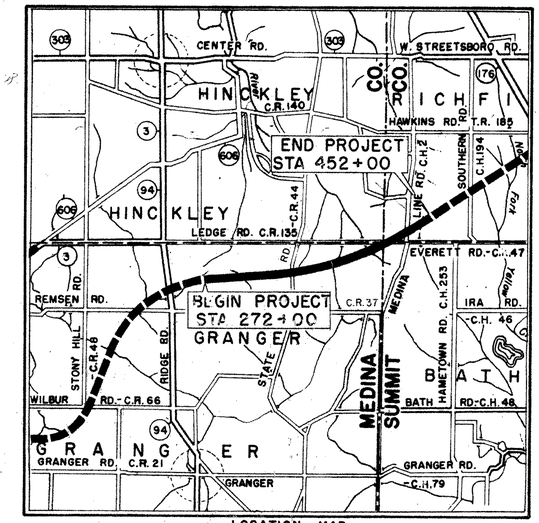
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LINE DATA

Begin Project Sta. 272+00
End Project Sta 452+00

New Length of Project			18,000.00	Lin. Ft. or 3.409 Mi.
Add for Work	Sta 269+33	to 272+00	267.00	Lin. Ft.
	Sta 452+00	to 460+68	858.00	Lin. Ft.
C R 44	Sta 44+30	to 52+75	845.00	Lin. Ft.
C H 47	Sta 0+51.92	to 14+90.73	1,438.81	Lin. Ft.
C H 2	Sta 0+75	to 16+25	1,550.00	Lin. Ft.
TOTAL WORK			22,958.81	Lin. Ft. or 4.348 Mi.



LOCATION MAP

SCALE IN MILES

DELIVERY POINT — Medina B.&O. R.R. and A.C.&Y. R.R.

AVERAGE HAUL — 9.5 Miles

PORTION TO BE IMPROVED
STATE HIGHWAYS
OTHER ROADS
OTHER CONTRACTS

SCALES

PLAN	1" = 50'
PROFILE -- HORIZONTAL	1" = 50'
PROFILE -- VERTICAL	1" = 5'
CROSS SECTIONS	1" = 10'

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.

1965 SPECIFICATIONS

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 NECESSARY FOR THIS IMPROVEMENT WILL BE PROVIDED BY THE STATE OF OHIO.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISION FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THESE PLANS AND ESTIMATES.

APPROVED: _____
DATE 6-4-65 DIVISION DEPUTY DIRECTOR

APPROVED: _____
DATE 12-13-65 ENGINEER OF BRIDGES

APPROVED: _____
DATE 1-18-66 ENGINEER OF LOCATION & DESIGN

APPROVED: _____
DATE 1-18-66 DEPUTY DIRECTOR, DESIGN & CONSTRUCTION

APPROVED: _____
DATE 1-28-66 DEPUTY DIRECTOR, RIGHT OF WAY

APPROVED: _____
DATE 1-28-66 DEPUTY DIRECTOR, PLANNING & PROGRAMMING

APPROVED: _____
DATE FIRST ASSISTANT DIRECTOR

APPROVED: _____
DATE 1-28-66 DIRECTOR OF HIGHWAYS

No RR
480-7
1-1966

PLANS PREPARED BY
J. E. GREINER COMPANY
CONSULTING ENGINEERS -- BALTIMORE, MARYLAND

STANDARD CONSTRUCTION DRAWINGS

DRAWING NO.	DATE	DRAWING NO.	DATE	DRAWING NO.	DATE	DRAWING NO.	DATE
BP-1	6-1-65	HW-E	6-1-65	GR-6	6-1-65	[illegible] 1-63	[illegible] -63
BP-2	6-1-65	MC-4	6-1-65	L-1	6-1-65	F-2	6-1-65
BP-6	6-1-65	CB 2.2-A&B	6-1-65	BP-3	6-1-65	F-3	6-1-65
FACT-1	6-1-65	CB-4	6-1-65	MC-1	6-1-65	SD-1.63 (4 sheets)	11-18-63
FACT-2	6-1-65	CB-5	6-1-65	BD-5	6-1-65	BR-1.65 (SHT 1	[illegible] 6-5
MC-3	6-1-65	MC-5	6-1-65	BD-4	6-1-65	SD-2.64	11-25-64
		GR-1	6-1-65	SD-53	6-30-61		
HW-3	6-1-65	GR-2A	9-1-65	AS-1-54	8-10-65		

SUPPLEMENTAL SPECIFICATIONS

NUMBER	DATE	NUMBER	DATE
816	8-6-65		
801	9-2-65		
806	9-2-65		
808	7-14-65		
811	3-29-65		
815	8-6-65		
817	4-22-65		

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED: _____

DIVISION ENGINEER — DATE

FILE NO. 247 M
MED-271-4.53
SUM-271-0.00
DATE OF LETTING _____ 19
CONTRACT NO. _____

CENTER LINE SURVEY PLAT

OHIO INTERSTATE 271

MED-271-4.53 SUM-271-0.00

MEDINA AND SUMMIT COUNTIES, OHIO

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

158/178

MEDINA COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS

1/2

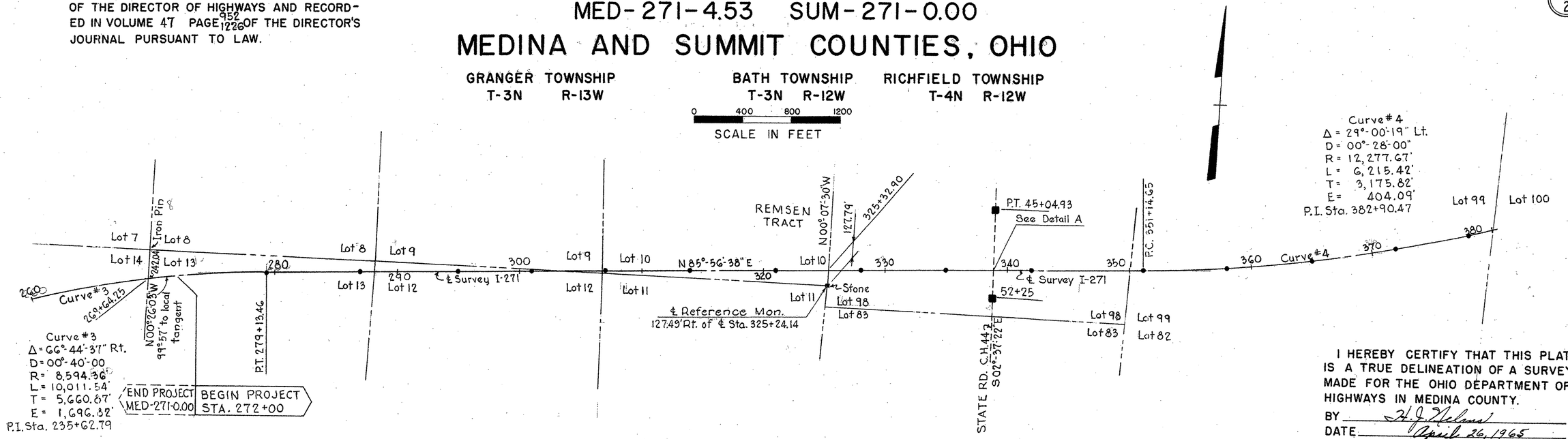
THIS IMPROVEMENT HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY BY ACTION OF THE DIRECTOR OF HIGHWAYS AND RECORDED IN VOLUME 47 PAGE 952/1226 OF THE DIRECTOR'S JOURNAL PURSUANT TO LAW.

GRANGER TOWNSHIP T-3N R-13W

BATH TOWNSHIP T-3N R-12W

RICHFIELD TOWNSHIP T-4N R-12W

0 400 800 1200
SCALE IN FEET



Curve #3
Δ = 66°-44'-37" Rt.
D = 00°-40'-00"
R = 8,594.36'
L = 10,011.54'
T = 5,660.67'
E = 1,696.32'
P.I. Sta. 235+62.79

END PROJECT MED-271-0.00 BEGIN PROJECT STA. 272+00

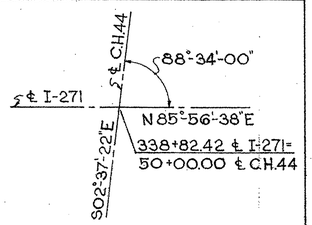
See Sheet 2 of 2 for Additional Monuments

Estimated Quantities
Centerline Reference Monuments – 16
Monument Assemblies – 2

LOCATION OF CENTERLINE REFERENCE MONUMENT		
NO.	STATION	LOCATION
	325+24.14	127.49' Rt. of ℄ I-271
	P.T. 279+13.46	℄ I-271
	287+00.00	℄ I-271
	295+00.00	℄ I-271
	301+00.00	℄ I-271
	307+00.00	℄ I-271
	314+00.00	℄ I-271
	321+00.00	℄ I-271
	328+00.00	℄ I-271
	335+00.00	℄ I-271
	342+00.00	℄ I-271
	P.C. 351+14.65	℄ I-271
	358+00.00	℄ I-271
	365+00.00	℄ I-271
	372+00.00	℄ I-271
	378+00.00	℄ I-271
MONUMENT ASSEMBLIES		
	P.T. 45+04.93	℄ C.H.44
	52+25.00	℄ C.H.44

Legend
- Centerline Reference Monument
- Monument Assembly
- Existing Road
- Lot Line

DETAIL A
Highway Tie



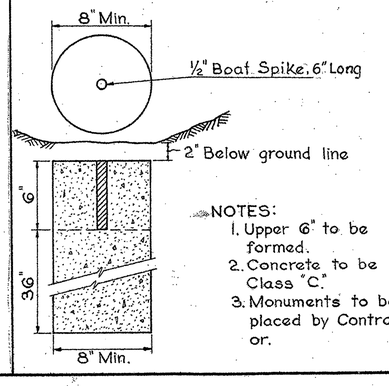
I HEREBY CERTIFY THAT THIS PLAT IS A TRUE DELINEATION OF A SURVEY MADE FOR THE OHIO DEPARTMENT OF HIGHWAYS IN MEDINA COUNTY.

BY H. J. Helms
DATE April 26, 1965
REGISTERED SURVEYOR NO. 4629

SIGNED Dell Emmert PE. NO. 24400
DATE: 9-14-65 DIV. DEPUTY DIRECTOR
DIV. NO. 3

101182
RECEIVED October 4, 1965 at 10:00 A.M.
RECORDED October 4, 1965
PLAT BOOK 12 PAGE 88
SIGNED Elsie L. Fetzer
MEDINA COUNTY RECORDER
18" X 11" = $1.98

CENTERLINE REFERENCE MONUMENT DETAIL



NOTES:
1. Upper 6" to be formed.
2. Concrete to be Class "C."
3. Monuments to be placed by Contractor.

MED/SUM-271-4.53/0.00 1/2

TNW OL Rutt 10-4-65

THIS IMPROVEMENT HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY BY ACTION OF THE DIRECTOR OF HIGHWAYS AND RECORDED IN VOLUME 47 PAGE 382 1226 OF THE DIRECTOR'S JOURNAL PURSUANT TO LAW.

CENTER LINE SURVEY PLAT

OHIO INTERSTATE 271

MED-271-4.53 SUM-271-0.00

MEDINA AND SUMMIT COUNTIES, OHIO

INDEXED

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

159 / 178

MEDINA COUNTY - SUMMIT COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS

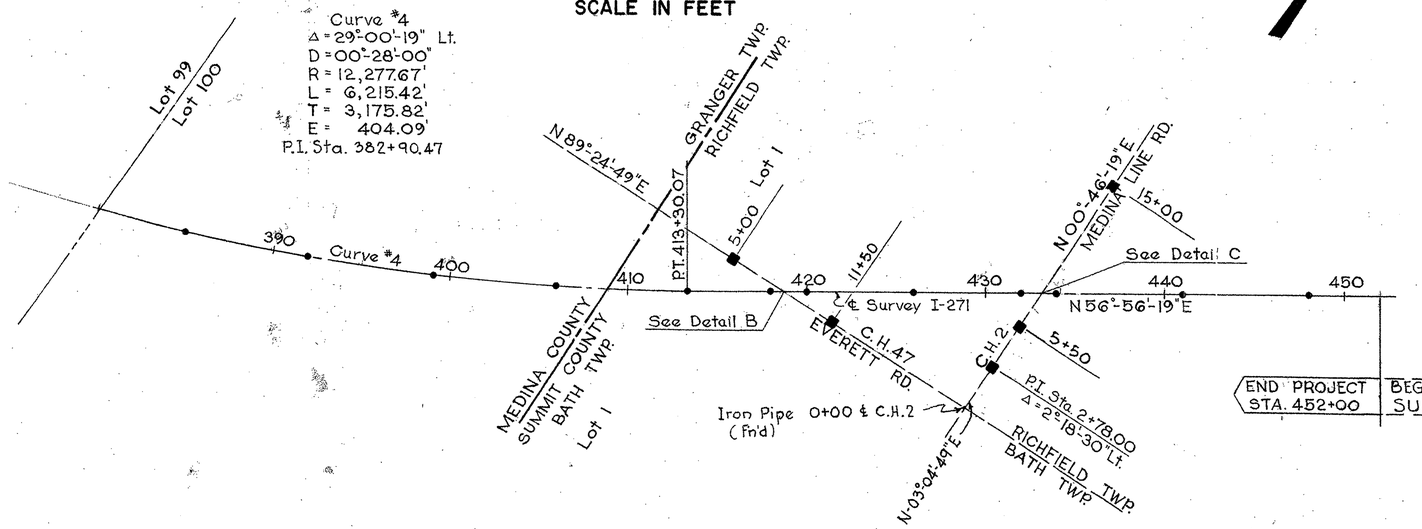
2 / 2

GRANGER TOWNSHIP T-3N R-13W

BATH TOWNSHIP T-3N R-12W

RICHFIELD TOWNSHIP T-4N R-12W

0 400 800 1200
SCALE IN FEET



I HEREBY CERTIFY THAT THIS PLAT IS A TRUE DELINEATION OF A SURVEY MADE FOR THE OHIO DEPARTMENT OF HIGHWAYS IN SUMMIT COUNTY.

BY J. D. Nelson

DATE April 26, 1965

REGISTERED SURVEYOR NO. 4629

END PROJECT STA. 452+00 | BEGIN PROJECT SUM-271-0.83

410512

RECEIVED October 4-1965 at 12:15 PM
RECORDED OCT 5 - 1965
PLAT BOOK 67 PAGE 66-67
SIGNED Roy R Reff
SUMMIT COUNTY RECORDER
By B. Dabon Dep. Recorder
970

SIGNED D.H. Emmer RE. NO. 24400
DATE: 9-14-65 DIV. DEPUTY DIRECTOR
DIV. NO. 3

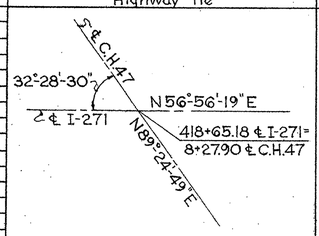
Legend
- Centerline Reference Monument
- Monument Assembly
- Existing Road
- Lot Line

See Sheet 1 of 2 for Additional Monuments

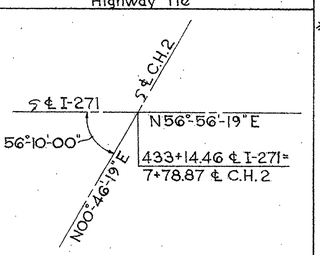
Estimated Quantities
Centerline Reference Monuments - 12
Monument Assemblies - 5

LOCATION OF CENTERLINE REFERENCE MONUMENT	
STATION	LOCATION
385+00.00	℄ I-271
392+00.00	℄ I-271
399+00.00	℄ I-271
406+00.00	℄ I-271
P.T. 413+30.07	℄ I-271
418+00.00	℄ I-271
420+00.00	℄ I-271
426+00.00	℄ I-271
432+00.00	℄ I-271
434+00.00	℄ I-271
441+00.00	℄ I-271
448+00.00	℄ I-271
MONUMENT ASSEMBLIES	
5+00.00	℄ C.H.47
11+50.00	℄ C.H.47
P.I. 2+78.00	℄ C.H.2
5+50.00	℄ C.H.2
15+00.00	℄ C.H.2

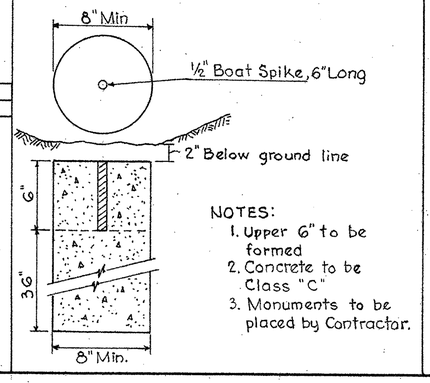
DETAIL B
Highway Tie



DETAIL C
Highway Tie



CENTERLINE REFERENCE MONUMENT DETAIL



NOTES:
1. Upper 6" to be formed
2. Concrete to be Class "C"
3. Monuments to be placed by Contractor.

101183

RECEIVED October 4-1965 at 10:01 A.M.
RECORDED October 4, 1965
PLAT BOOK 12 PAGE 85
SIGNED Elsie L. Fetzer
MEDINA COUNTY RECORDER
18" X 11" = $1.98

TRANSFER NOT NECESSARY
OCT 4 1965
C. L. Bower, County Auditor

MED/SUM-271-4.53/0.00 2/2

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

160/178

MEDINA COUNTY - SUMMIT COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS

1/19

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

TOTAL NUMBER OF OWNERS : 34
TOTAL NUMBER OF OWNERS WITH STRUCTURES: 5

PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED AREA	TO BE ACQUIRED LAND	TO BE ACQUIRED BLDGS.	RESIDUE LEFT	RESIDUE RIGHT	SHEET NO.	REMARKS	TYPE OF FUND
36	Nellie Gaiduk	283	654	63.71	0	No	63.71	0	5,6	No Right of Way Required	
37WL	Roy Albert & Bartha Catherine Van Duesen	305	664	30.00	0.45	No	29.16	0	6,7	005-003-00-020-00 P.R.O. = 0.39 Ac.	
*38WL	Everett E. & Alice R. Ingalls	200	555	103.75	12.13	No	90.17	91±	5,6,7	005-003-00-021-00	
39WL	Loretta S. McClain	307	64	20.12	1.93	No	18.19	0	7	005-004-00-032-00	
40WL	Frank J. Jr. & Nancy E. Kalfas	295	470	15.12	0.75	No	14.37	0	7	005-004-00-034-00	
41WL	Herbert O. Kamps	130	482	40.00	2.42	No	37.58	0	7,8		
42WL	Harold W. & Ethel Alber	201	290	67.33	2.19	No	0	65.14	7	005-004-00-033-00	
43WL	John A. & Aka Iva Iva M. Codding	97 203	168 1	82.05	5.88	No	0	76.17	7,8	005-004-00-035-00	
44WL	Bernard A & LaVonne E. Krueger	161 202	431 402	99.72	3.07	No	0	96.65	8,9	1.52Ac-005-004-00-039-00	
45WL	Vincentian Sisters of Charity	176	123	51.75	4.01	No	47.74	0	8,9	005-004-00-037-00	
	of the Diocese of Cleveland										
46WL	Ellen Louise Kreke	299	288	51.75	5.36	Yes	46.39	0	9	005-004-00-040-00	
47WL	Mary M. & Harry Streck	200	68	117.39	9.65	Yes	62.5±	45±	9,10	P.R.O. = 0.57 Acre	
47	" " "				0.16				10	9.63-005-004-00-042-00 0.25-005-004-00-041-00	
47A	" " "				0.02				10		
47T	" " "				0.16				10		
47T-1	" " "				0.17				10		
47T-2	" " "				0.11				10		
48	Not Used										
49WL	James D. Reasner	303	149	19.48	3.85	No	15.14	0	10,11	P.R.O. = 0.35 Acre	
49	" " "				0.14				10	005-004-00-047-00	
49T	" " "				0.02				10		
50WL	Arthur A. & Elmer A. Pimsner	202	507	75.00	5.26	No	0	69.49	10,11	P.R.O. = 0.22 Acre	
50	" " "				0.03				10	005-004-00-048-00	
50T	" " "				0.03				10		
51	Not Used										
52WL	Samuel & Patricia A. Oldfield	324 Document 579	246 Cert. 126	83.20	11.43	No	59±	13±(L)	11,12	005-005-00-026-00	
53WL	Karol S. & Amelia Adams	256	268	48.99	6.72	No	34±	8.5±(L)	12	005-005-00-025-00	
53T	" " "				0.15				12		
54WL	Green Valley Outing Club, Inc.	Document 189	VI P131 Reg. Land Book	90.31	12.80	Yes	46.5±	31±(L)	12,13	7.5Ac-005-005-00-027-00	
54T	" " " "				0.12				12	5.3Ac 005-005-00-019-00	
54T-1	" " " "				0.05				13		
54T-2	" " " "				0.21				13		
55WL	Gustav C. & Leona F. Stobbe	249	412	69.50	11.06	No	33.5±	25±(L)	13,14	005-005-00-018-00	
55T	" " "				0.06				14		
56WL	Arthur Nicholas & Ann Louis	167	291	60.00	1.11	No	0	58.89	14,15	005-005-00-012-00	
56T	Sterenberg				0.07				14		
57WL	Irene E. Henley	196	260	0.91	0.81	Yes	0.10	0	14,15	005-005-00-013-00	
57T	" " "				0.09				14,15		
58WL	Francis M. Gaffney and Rev. J. Richard Gaffney	301	307	9.10	2.74	Yes	6.21	(L) 0.15	14,15	005-005-00-011-00	
37A	Ora W. & Ina M. Van Duesen	114	260	28.67	0	No	28.67	0	7	No R/W Needed	

INTERSTATE FUND

PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED AREA	TO BE ACQUIRED LAND	TO BE ACQUIRED BLDGS.	RESIDUE LEFT	RESIDUE RIGHT	SHEET NO.	REMARKS	TYPE OF FUND
59WL	Mildred Bayus	3916	152	22.00	6.77	No	1.5±	13±(L)	15	P.R.O. = 0.57 Acre	
59	" "				0.10				15		
59T	" "				0.40				15		
*60WL	Gustav C & Leona F. Stobbe	4172	609	18.23	0.53	No	0	16.29	15,16	P.R.O. = 1.32 Acre	
60	" " "				0.09				16		
*61	Not Used										
62WL	Peter & Mary Shraba	2056	249	41.26	10.73	No	24.5	4±	15,16,19	P.R.O. = 1.63 Acre	
62	" " "				0.11				15		
62A	" " "				0.02				16		
62B	" " "				0.24				16,19		
62T	" " "				0.16				15		
63	Elsie A. Hess	2766	106	21.16	0.06	No	20.87	0	19	P.R.O. = 0.23 Acre	
64	Steve J. & Virginia T. Wargo	4262	453	4.30	0.04	No	0	3.66	19	P.R.O. = 0.60 Acre	
65WL	Donald J. & Fern E. Cass	2546	154	4.87	2.60			0.11(L)	17,19		
65AWL	Fern E. Cass	2451	312		0.28	No	1.6		17,19	P.R.O. = 0.14 Acres	
65	" "				0.16				19		
65T	" "				0.03				17,19		
65T-1	" "				0.14				17		
66WL	John Russell & Ruth Fox	3641	169	4.87	3.00	Yes	0.31	(L) 1.29	16,17,19	P.R.O. = 1.14 Acre	
66	" " " "				0.13				16,17		
66T	" " " "				0.03				17,19		
67WL	Frank Domain	4263	518	4.89	1.89	No	0	(L) 2.86	16,17,19	P.R.O. = 0.14 Acre	
68WL	Joseph R. & Antoinette B. Wajda	4133	245	13.70	0.35	No	0	12.47	16,17,19	P.R.O. = 0.63 Acre	
68	" " " "				0.25				16,19		
68T	" " "				300 sq. ft.				19		
69WL	Kenneth J. & Margaret J. Taucher	4209	646	11.54	0.49	No	10.41	0	16,19	P.R.O. = 0.38 Acre	
69	" " "				0.26				16,19		
69T	" " "			0.37	0.37	Yes			16,19		
70	Alfred Hoppe	2167	175	0.40	0.04	No	0	0.19	19	P.R.O. = 0.17 Acre	
71WL	Frank Zodnik	2872	644	5.93	0.22	No	0	5.56	17	P.R.O. = 0.15 Acre	
72WL	Arthur & John Nitti	3304	534	41.01	12.06	No	17.8	(L) 10.89	17,18,19	P.R.O. = 0.20 Acre	
72	" " "				0.06				19		
*59T1	Mildred Bayus	3916	152		0.26				15		
*60T	Gustav C. & Leona F. Stobbe	4172	609		0.78				16		

INTERSTATE FUND

(L) Landlocked Area

*Indicates Parcel added.

GRANGER TWP
T-3N R-13W

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

161/178

MEDINA COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1" = 400'

2/19

Albert Schraegle
Alvin F. & Marjorie A. Stauffer
William & Evelyn Kenya
Frank Scapell
Howard & Mildred Davis
Fred & Ruth Siegfried
Fred Jr. & Elsie Lucht
Leslie F. & Alice W. Herrmann
William B. Alber
Ranchwood Inc.
Helen A. Crocker
Anna Marie Hauthaway
Anna Hauthaway
Frank Buehner
Leland L. Alber
Frank & Lucille F. Harris
Nellie Gaiduk
James Stewart & Phyllis J. Harrison
Roy A. & Bertha C. Vandusen
Roy Albert & Bertha Catherine Vandusen
August Jelen, Jr.
Board of Granger Twp. Trustees
Harold R. & Fern Loomis
Lawrence E. Dean
Lucille & Wayne Johnson
John R. & Bonnie Lee Kingan
Harris & Mary J. Reid
Everett N. & Helen L. Millard & Troupe
Dodaleen L. Minot & Lillian D. Lehman
Albert E. & Judith A. Schieck
Mark D. & Patricia A. Tomko
Gladys L. Kahl
John A. & Iva Codding
Vernal E. Salisbury
Iron Pipe Lot Corn.
Paul & Lucille Franks
Willis J. & Hazel Stoll
Thomas H. & Ruth E. Sylvester
Olive H. Daykin
Hubert S. & Madelyn Hayden
Irma Baird
Helen Dean
Francis E. & Virginia T. Rottmayer
Virginia T. Rottmayer
Edward C. McCormick, Jr.
John C. Stoll
Remsen Christian Church
Everett E. & Alice R. Ingalls
Vernita Chalker
F.E. Rottmayer

Stony Hill Rd. C.R. 48
Remsen Rd. C.R. 37
Ledge Rd. C.R. 135
Ridge Rd. S.R. 94
L.A. R/W
247+24.60 I-271
150+00 S.R. 94
N10°26'50"W
Lot-5
Lot-6
Lot-7
Lot-8
Lot-9
Lot-12
Lot-13
Lot-14
Lot-15
Lot-16
Lot-17
Lot-25
Lot-26
Lot-27
Lot-28
Lot-33
Lot-36
Lot-37
Lot-43
Lot-44
Lot-53
Lot-54

BEGIN ACQUISITION
STA. 269+64.25
MED/SUM-271-4.53/0.00

END ACQUISITION
STA. 269+64.25
MED-271-0.00

South Line of Remsen Tract

AUG 1 6 1965

REVISIONS

R/W PLAN PROPERTY MAP

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

162
178

3
19

MEDINA COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1"= 400'

Ledge Rd. C.H. 135

Hinkley Township

Granger Township

Ruth B. Putz

Walter A., Jr. & Lois C. Robb

Fred R. & Mildred J. Kreuscher

The Cleveland Metropolitan Park Association

The Y.M.C.A. of Medina County

Katherine Karasek & John L. Karasek

Toddle Tots Nursery Schools Inc.

Ora M. & Ina M. Vandusen

Loretta S. McClain

Frank J., Jr. & Nancy E. Kalfas

Herbert O. Kamps

Vincentian Sisters of Charity of the Diocese of Cleveland

Ellen Louise Kreke L/E Mabel Mickel

Mary M. & Harry C. Streck

Emma Louise Gerhard

James C. Reasner

Bessie W. Dannley

Samuel & Patricia A. Oldfield

Karol S. & Amelia Adams

Green Valley Outing Club Inc.

Roger A. & Ruth E. Bradac

John S. Lickvar

Gustav C. & Leona F. Stobbe

Irene E. Henley

Francis M. Gaffney et al

10' Easement

30' Easement

Harold W. & Ethel Alber

John A. & Iva M. Codding

Bernard A. & La Vonne E. Krueger

Mary M. & Harry C. Streck

Arthur A. & Elmer A. Pimsner

Fay Scanlon & John E. Scanlon

State Rd. C.H. 44

O. Stanley & Esther I. Allard

Howard C. & Clara M. Brenneman

Arthur Nicholas & Ann Louise Sterenberg

Adolph E. & Denise M. Goodman

Paul H. & Frances A. Cranz

Remsen Rd. C.H. 37

Ohio Fuel Gas Co. 6" Line FL-1815

1-2705-p GAS WELL

1-2635-p GAS WELL

LA R/W

R/W

MEDINA COUNTY
SUMMIT COUNTY

GRANGER TWP
T-3N R-13W

Legend
Buildings

AUG 16 19

REVISIONS

R/W PLAN PROPERTY MAP

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

163/178

SUMMIT COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1"=400'

4/19

END ACQUISITION
Sta 456+76.83
MED/SUM-271-4.53/0.00

BEGIN ACQUISITION
Sta 456+76.83
SUM-271-0.50

MEDINA COUNTY
SUMMIT COUNTY

Richfield Twp
Bath Twp.

Lot-1 Lot-2 Lot-3 Lot-15 Lot-16 Lot-17 Lot-18

The Cleveland Metropolitan Park Association

Overdale Acres

J.M. Garman

A.J. & A.M. Chapka

J.M.G. Garman

D.L. & J.R. Griggs

J. & B. Szereto

F.F. Hess

E.A. Hess

Kenneth J. & Margaret J. Taucher

J.H. Caufield

E.C. McCormick

A. Repp

A.H. & M.E. Lepke

W.B. & M.M. Kirby

Peter & Mary Shroba

Arthur & John Nitti

Fern E. Cass

Donald J. & Fern E. Cass

Sta. 433+14.46 ℄ I-271=
Sta. 7+78.87 ℄ C.H. 2

LA R/W

410 420 430 450 460

J.R. & R. Fox

F. Domain

Joseph R. & Antoinette B. Wajda

Steve J. & Virginia T. Wargo

Alfred Hoppe

Iron Pipe

Gustav C. & Leona F. Stobbe

Mildred Bayus

J.D. & M.C. Clark

J.D. & C.M. Clark

L.E. & W.D. Rubright

R.M. McClellan

L.W. & O.I. Remmy

T. & M.F. Prezeworski

G. Felker

C.J. Jr. & A.H. Ceraci

J.V. Nesbit

F. Zodnik

A.M. Keslar

E. & H. Hochberger

E.E. & E. Davis

G.L. Lennon

E. Davis

S. & L. Dickson

C. & S. Stone

R.R. Milburn

A. & D. Browning

S. Lojek

A.P. Feldman

C. & D. Prentiss

Medina Line Rd. C.H. 2

RICHFIELD TWP
T-4N R-12W

BATH TWP
T-3N R-12W

Everett Rd. C.H. 47

Southern Rd. C.H. 194

W.L. & F.M. Fry

O.E. Cover

A.M. Horn

V.W. Gore

E.S. Norris

J. Bigelow

A.J. & H.M. Smith

J. Kern

D.D. & D.R. Hallick

L.E. & B.E. Wybel

R.F. & T.I. Watson

R.W. & C. Arnold

R.D. & M.L. Brown

V.D. & M.B. Kniss

D.J. Laughman & B.W. Bierce

L. Cooper

W.F. & M.G. Wisnieski

Legend
Buildings

AUG 16 1965

REVISIONS

R/W PLAN PROPERTY MAP

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

164/178

MEDINA COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1"=50'

5/19

MEDINA COUNTY
GRANGER TWP
REMSEN TRACT LOTS 7, 8, 13, & 14
T-3N R-13W

FRANK & LUCILLE E. HARRIS

NELLIE GAIDUK
(36)
No R/W Required

Iron Pin, Found and Used
N 89°-22'-50" E

LOT 7
LOT 8
LOT 14
LOT 13

270+05.01
238.50'

Landlocked Parcel
0.17 Ac. ±

N 89°-11'-49" E

269+94.61
176.44'

63.03'

L A R/W

N 74°-44'-25" E

252.12'

272+40.0
202.35'

Type 47 Fence

173.01'

242.04'

351.73'

Woods

Curve #3

℄ Survey I-271

ACQUIRED UNDER MED-271-0.00

(33-WL)

(38 WL)

270

END ACQUISITION
STA. 269+64.25
MED-271-0.00

BEGIN ACQUISITION
MEDINA / SUMMIT-271-
4.53 / 0.00

End Sheet, Sta. 272+00

Woods

Limit of Construction

Type 47 Fence

Field

IAPA 269+33.83
169'

269+33.83
170'

S 79°-14'-22" W

Type 47 Fence

L A R/W

555.89'

Cultivated

N 00°-26'-03" W

JOHN A. & IVA CODDING

EVERETT E. & ALICE R. INGALLS
(38 WL)
Cont. 12.13 Ac. ±
005-003-00-021-00

TYPE OF FUNDS
INTERSTATE FUND
AUG 1 6 1965

REVISIONS

Curve # 3
P.I. Sta. 235+62.79
Δ = 66°44'37" Rt.
D = 0°40'00"
R = 8,594.36'
L = 10,011.54'
T = 5,660.87'
E = 1,696.82'

ESTIMATED QUANTITIES
I-25 Type 47 Woven Wire Fence = 475 Lin. Ft.

MED-271-4.53

R/W PLAN STA. 258+00 to 272+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

165
178

MEDINA COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1"=50'

6
19

MEDINA COUNTY
GRANGER TWP.
REMSEN TRACT LOTS 8 & 13
T-3N R-13W

END PROJECT
MED-271-0.00

BEGIN PROJECT
Sta. 272+00.00
MED/SUM-271-4.53/0.00

NELLIE GAIDUK
36
No R/W Required

ROY ALBERT & BARTHA CATHERINE VAN DUESEN
37
WL
Cont. 0.45 Ac. ±
005-003-00-020-00

EVERETT E. & ALICE R. INGALLS
38
WL
Cont. 12.13 Ac. ±
005-003-00-021-00

Begin Sheet, Sta. 272+00
End Sheet, Sta. 287+00

272+40.0
202.35

Limit of Constr.
LA R/W
Type 47 Fence
N 89°-11-49" E 689.72'
P.T. 279+13.46
136.22
LOT 8
LOT 13
LA R/W
282+61.82
116.42
N 82°-02-09" E
LA R/W
566.05'
910.78'
N 89°-11-49" E
561.85'
48" ϕ
MED-271-4.55
274+45
275
Curve # 3
280
℄ Survey I-271
N-85°-56'-38" E
285
Woods
Cultivated Field
Limit of Constr.
Type 47 Fence
555.89' S 79°-14'-22" W
LA R/W
407.17' S 81°-45'-07" W
586.54'
LA R/W
S 85°-56'-38" W
301.80' N 89°-18'-14" W
275+00.0
150.0'
P.T. 279+13.46
130.0'
285+00.0
130.0'

Curve # 3
P.I. Sta. 235+62.79
Δ = 66°-44'-37" Rt.
D = 00°-40'-00"
R = 8,594.36'
L = 10,011.54'
T = 5,660.87'
E = 1,696.82'

ESTIMATED QUANTITIES
I-25 Type 47 Woven Wire Fence = 3,080 Lin. Ft.

TYPE OF FUNDS
INTERSTATE FUND
AUG 16 1993

REVISIONS

MED-271-4.53

R/W PLAN STA. 272+00 to 287+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

166
178

MEDINA COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1"= 50'

7
19

ORA W. & INA M. VAN DUESEN
37 A

MEDINA COUNTY
GRANGER TWP.
REMSEN TRACT LOTS 8,9,12,13
T-3N R-13W

ROY ALBERT & BARTHA CATHERINE VAN DUESEN
37 WL
Cont. 0.45Ac.±

LORETTA S. McCLAIN
39 WL
Cont. 1.93 Ac.±
005-004-00-032-00

FRANK J. JR. & NANCY E. KALFAS
40 WL
Cont. 0.75Ac.±

HERBERT O. KAMPS
41 WL
Cont. 2.42 Ac.±

LOT 8 LOT 9

Woods

Cultivated Field

N 00°-58'-42" W

288+26.56
155.0'

290+00.0
165.0'

295+00.0
150.0'

297+02.19
150.0'

299+73.39
150.0'

566.05' N 82°-02'-09" E — 173.73' — N 82°-38'-42" E — 500.22' N 87°-39'-42" E — LA R/W — 202.19' N 85°-56'-38" E — 271.20' — LA R/W — N 85°-56'-38" E — 426.61' N 85°-56'-38" E

Type 47 Fence

Limit of Constr.

288+22.77
84.54'

70.56'
Post

MED-271-4.88

910.78'

561.85'
N 89°-11'-49" E

392.70' (392.37' Deed)

873.45'
N 89°-09'-01" E

292+14.85
62.58'

1,467.36'
N 89°-09'-01" E

114.54' N 00°-22'-50" W

296+94.85
35.69'

129.71' N 00°-22'-50" W

299+65.07
20.55'

270.64'

715.97'

84.90'

288+15.0

290+56

290

295

300

42"ϕ

292+08.88

& Survey I-271
N 85°-56'-38" E

Begin Sheet Sta. 287+00

End Sheet Sta. 301+00

N 01°-11'-41" E
240.55'

236.72'

173.86'

Cleared

Area

38 WL

42 WL

43 WL

Woods

Cultivated Field

301.80' N 89°-18'-14" W — 300.28' N 89°-16'-50" W — LA R/W — 92.62' — 308.50' — S 81°-39'-17" W — LA R/W — S 85°-56'-38" W

288+00.76
195.0'

291+00.0
180°

291+92.36
173.07'

295+00.0
150.0'

Type 47 Fence
1,170.62'

2'

EVERETT E. & ALICE R. INGALLS
38 WL
LOT 13
Cont. 12.13Ac.±

LOT 12

HAROLD W. & ETHEL ALBER
42 WL
Cont. 2.19Ac.±
005-004-00-033-00

N 01°-23'-41" E

JOHN A. & IVA M. CODDING
43 WL
Cont. 5.88 Ac.±
005-004-00-035-00

N

ESTIMATED QUATITIES
I-25 Type 47 Woven Wire Fence = 2,800 Lin. Ft.

TYPE OF FUNDS
INTERSTATE FUND
AUG 16 1965

REVISIONS

MED-271-4.53

R/W PLAN STA. 287+00 to 301+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

167
178

MEDINA COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1" = 50'

8
19

MEDINA COUNTY
GRANGER TWP.
REMSEN TRACT LOTS 9,10,11,12
T-3N R-13W

HERBERT O. KAMPS
41 WL
Cont. 2.42 Ac.±

VINCENTIAN SISTERS OF CHARITY
OF THE DIOCESE OF CLEVELAND
45 WL
Cont. 4.01 Ac.±
005-004-00-037-0

Cultivated Field
Woods
LOT 9
LOT 10
N-00°-22'-50 W
304+00.0
150.0'
306+90.17
140.0'
313+00.0
140.0'
426.61' N 85°-56'-38" E
290.34' N 87°-55'-06" E
609.83' N 85°-56'-38" E
318.80'
L A R/W
N 84°-08'-46" E
Type 47 Fence
Limit of Constr.
Trail to be abandoned
159.83'
Ohio Fuel Gas Co. G line
unknown Easement
41 WL
45 WL
Begin Sheet Sta. 301+00
End Sheet Sta. 315+00
+31.86
306+47.00
306+81.17
715.97'
305
310
℄ Survey I-271
1467.36 N 89°-09'-01" E
N 85° 56' 38" E
19.55'
40°-59'-00
306+79.92
19.51'
1,595.92'
925.94'
N 89°-17'-41" E
Cleared Area
43 WL
44 WL
130.82'
N-00°-00'-58" E
Limit of Constr.
Logging Track, to be abandoned
Type 47 Fence
1,170.62' S 85°-56'-38" W
L A R/W
329.98'
S 82°-28'-09" W
1,100.73' S 88°-01'-34" W
L A R/W
306+70.62
150.0'
310+00.0
130.0'
Woods
1534c -005-004-00-039-00
LOT 12
LOT 11
JOHN A. & IVA M. CODDING
43 WL
Cont. 5.88 Ac.±
BERNARD A. & LaVONNE E. KRUEGER
44 WL
Cont. 3.07 Ac.±
Gas Well
Gas & Oil Well

ESTIMATED QUANTITIES
I-25 Type 47 Woven Wire Fence = 2,800 Lin. Ft.

TYPE OF FUNDS
INTERSTATE FUND
AUG 16 1965

REVISIONS

MED-271-4.53

R/W PLAN STA. 301+00 to 315+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

168
178

MEDINA COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1"=50'

9
19

MEDINA COUNTY
GRANGER TWP.
REMSEN TRACT LOTS 10, 11, 83 & 98
T-3N R-13W

Vincentian Sisters of Charity
of the Diocese of Cleveland
45

Woods

ELLEN LOUISE KREKE
005-004-00-040-00
46 WL
Cont. 5.36 Ac.±

Gas Well

Cultivated

MARY M. & HARRY C. STRECK
47

LOT 10

LOT 98

316+18.64
150'

325+43.55
155'

328+00
175'

N84°-08'-46"E 318.80

924.92' N85°-38'-02"E

257.23' N81°-29'-05"E

301.04' S89°-17'-32"E

LA R/W

Type 47 Fence

Limit of Constr.

45 WL
Cont. 4.01 Ac.±

46 WL

Fr. Shed

Begin Sheet Sta. 315+00

150.31' N00°-22'-50"W

224.09'

73.78'

+09.00

N 85° 56' 38" E

320

℄ Survey I-271

325
+32.90

N00°-07'-30"W 127.79'

End Sheet Sta. 329+00

925.94'

316+04.27
73.63'

1595.92' N89°-17'-41"E

921.44'

283.16'

47 WL

Location to be monumented.
Stone (Fnd. & Used)

9.634c.
005-004-00-042-00

Limit of Constr.
Type 47 Fence

Trails To Be Abandoned

44 WL

N89°-17'-41"E 251.46' (Deed)

322+73.1
127.79'

533'

325+24.14
127.49'

578.18' S 84°-57'-11"W

252.51'
S84°-35'-10"W

32.59'

1100.73'

S88°-01'-34"W

LA R/W

169.52'

321+00
170'

322+69.47
165.98'

N00°-08'-24"W

005-004-00-041-00
0.25Ac.

325+21.91
160'

166.32' (Deed)

Logging Trails

BERNARD A. & LaVONNE E. KRUEGER
44 WL
Cont. 3.07 Ac.±

LOT 11

LOT 98

LOT 83

Woods

325+12.73
293.41'

TYPE OF FUNDS
INTERSTATE FUND
AUG 1 6 1965

REVISIONS

ESTIMATED QUANTITIES
I-25 Type 47 Woven Wire Fence = 2,800 Lin. Ft.

MED-271-4.53

R/W PLAN Sta. 315+00 to 329+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-6(14)224	

169
178

10
19

MEDINA COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1"=50'

MEDINA COUNTY
GRANGER TWP
LOTS 83 & 98
T-3N R-13W

P.I. #1 Sta. 43+15.00
Δ=17°13'-30"
D= 4°-30'
R= 1,273.24'
L= 382.77'
T= 192.84'
E= 14.52'

N87°22'-38"E
S02°-37'-22"E
45+73.0
80.0
46+15.0
80.0
50.0
40'
30'
40'
P.T. 45+04.93
125.34'
S11°48'-16"E
263.08'
S87°-22'-38"W
Sta. 46+50
MATCH LINE
Begin Work 44+30
44+50.0
28.34'
Exist. R/W
P.I. #1
S02° 37'-22"E 46
335.02'
54.97'
45
38
48
R/W
337.32' N02°37'-22"W
S89°-50'-57"W
300.03'
300.03'
44+50
31.21'
59.71'
N16°-51'-01"E
45+04.93
50.0'
28'
2 Sty. Fr. Res
Filter bed
Septic Tank
Artesian well 1,000 gal. tank
44+50.00 @ 118'
Gr. drive
47
T
331+00.0
150.0'
211.90'
N 66°-39'-14" E
333+00.0
270.0'
333+00.0
150.0'
70.0'
S04°-03'-22"E
335+00.0
150.0'
Orchard - 10"-16" Apple, 23 trees
301.04'
S 89°-17'-32"E
200.0'
Type 47 Fence
400.0' N-85°-56'-38" E
386.56' N 84°-27'-38"E
MATCH LINE Sta. 46+50
47
49
338+36.37 @ 158.70' ℄ I-271
48+42.50 @ 50.0'
℄ C.H. 44
337.57' N02°37'-22"W
R/W
48 ℄ C.H. 447
335.02
S02°37'-22"E
338+86.42 @ 160.0' ℄ I-271
48+39.95 ℄ C.H. 44
263.09
339+36.45 @ 160.60' ℄ I-271
48+38.09 @ 50.0' ℄ C.H. 44
5003'
5005'
24'
JAMES D. REASNER
49 WL
Cont. 3.85 Ac±
P.R.O. 0.08 Ac±
Total 3.93 Ac±
005-004-00-047-00
49
T
Cont. 0.02 Ac±
49
Cont. 0.14 Ac±
P.R.O. 0.27 Ac±
Total 0.41 Ac±
343+00.0
165.0'
500.22' N87°39'-42"E
LA R/W
413.60' N 85°-15'-07"E
Limit of Constr.
Ohio Edison Co.-Z
111.06'
49 WL
W o o d s
338+83.65 @ 48.98 ℄ I-271
49+51.01 ℄ C.H. 44
338+82.42 ℄ I-271
50+00.00 ℄ C.H. 44
88°-34'-00"
1,119.12'
N 89°-07'-20" E
End Sheet, Sta. 344+00
Begin Sheet Sta. 329+00
330
335
340
℄ Survey I-271
N 85°56'38"E
MED-271-5.65
331+00
005-004-00-042-00
47 WL
Cultivated Field
T r e e s
Shed
12" CMP
328.66'
STATE RD.
217.60'
338+38.25 @ 165.89 ℄ I-271
51+66.95 @ 40.0' ℄ C.H. 44
338+78.20 @ 168.55' ℄ I-271
51+68.61 ℄ C.H. 44
339+23.14 @ 171.55 ℄ I-271
51+70.48 @ 45.0' ℄ C.H. 44
339+63.08 @ 174.21 ℄ I-271
51+72.14 @ 85.0 ℄ C.H. 44
50 WL
S 84°-57'-11"W
578.18'
Limit of Constr.
Type 47 Fence
165.02'
500.0' S 85°-56'-38" W
LA R/W
278.82' S 89°-45'-29" W
138.56'
322.51'
S 89°-45'-29" W
600.34' S 87°-51'-12" W
329+35.0
152.85'
97.15' N04°-03'-22"W
120.83'
S36°-30'-00"W
53.85'
S17°-44'-44"W
329+90.0
200'
331+00.0
150.0'
336+00.0
150.0'
337+00.0 @ 156.61 ℄ I-271
51+61.19 @ 178.44 ℄ C.H. 44
159.30'
N62°-56'-13"W
73.05'
108.03'
106.39'
108.03'
108.62'
74.52'
S31°-36'-08"W
40.0'
45.0'
40.04'
45.04'
24'
18'
47 T-1
47 T-2
50 T
52+40.0 @ 40.0'
52+45.0 @ 45.0'
52+75.0 @ 40.0'
52+75.0 @ 45.0'
52+75.0 ℄ End Work
S 87°-22'-38" W
60'
30'
℄
Exist. R/W
Exist. R/W
S 02°-37'-22" E
347+00.0
190.0'
329+35.0
250.0'
S85°-56'-38"W
329+70.0
250.0'
35.0'
LOT 98
LOT 83
MARY M. & HARRY C. STRECK
47 WL
Cont. 9.65 Ac±
P.R.O. 0.23 Ac±
Total 9.88 Ac±
47
Cont. 0.16 Ac±
P.R.O. 0.27 Ac±
Total 0.43 Ac±
47 T
Cont. 0.16 Ac±
47 A
Cont. 0.02 Ac±
P.R.O 0.07 Ac±
Total 0.09 Ac±
47 T-1
Cont. 0.17 Ac±
47 T-2
Cont. 0.11 Ac±
ESTIMATED QUANTITIES
I-25 Type 47 Woven Wire Fence = 1,370 Lin. Ft.
ARTHUR A. & ELMER A. PIMSNER
50 WL
Cont. 5.26 Ac±
P.R.O. 0.15 Ac±
Total 5.41 Ac±
005-004-00-048-00
50
Cont. 0.03 Ac±
P.R.O. 0.07 Ac±
Total 0.10 Ac±
50 T
Cont. 0.03 Ac±

TYPE OF FUNDS
INTERSTATE FUND
AUG 16 1965

REVISIONS

MED-271-4.53

R/W PLAN STA. 329+00 to 344+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

170
178

MEDINA COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1"=50'

11
19

MEDINA COUNTY
GRANGER TWP.
LOTS 98, 99
T-3N R-13W

CURVE #4
P.I. Sta. 382+90.47
Δ = 29°-00'-19" Lt.
D = 0°-28'-00"
R = 12,277.67'
L = 6,215.42'
T = 3,175.82'
E = 404.09'

LOT 98 LOT 99

JAMES D. REASNER
49 WL
Cont. 3.85 Ac.±
P.R.O. 0.08 Ac.±
Total 3.93 Ac.±
Woods

SAMUEL & PATRICIA OLDFIELD
52 WL
Cont. 11.43 Ac.±
005-005-00-026-00

348+00 150.00
349+00 230.00
350+26.18 230.00
P.C. 230.00
353+50 227.79'
355+00 150'

N47°-17'-00"E 128.06'
N85°-56'-38"E 126.18' 88.47' L A R/W 230.96'
S67°-43'-42"E 166.92'
N77°-28'-51"E 870.82'
500.22' N87°-39'-42"E L A R/W
Type 47 Fence
Limit of Constr.

244.36'
351+14.05 P.C.
424.85'

49 WL
52 WL
50 WL

Cultivated
Woods

Begin Sheet, Sta. 344+00
End Sheet, Sta. 358+00

1119.12' N89°-07'-20"E
345 +65.71
N85°56'38"E +02.40
350 ℄ Survey I-271 355

350+01.05 13.07'
193.63'
180.49' N01°-50'-46"E

Limit of Constr.
Type 47 Fence
L A R/W
157.31' N82°-24'-24"W
357+00 155'

183.32' 132.76' 593.80' S82°-09'-56"W
600.34' S87°-51'-12"W S80°-29'-52"W
348+00 210
349+82.49 192.60'
P.C. 180

ARTHUR A. & ELMER A. PIMSNER
50 WL
Cont. 5.26 Ac.±
P.R.O. 0.15 Ac.±
Total 5.41 Ac.±

N89°-11'-30"E

LOT 98 LOT 99

Landlocked Parcel
13 Ac.±

LOT 83 LOT 82

O. STANLEY & ESTHER I. ALLARD

TYPE OF FUNDS
INTERSTATE FUND
AUG 16 1965

REVISIONS
8-2445 Par 52 Area on Ft.

ESTIMATED QUANTITIES
I-25 Type 47 Woven Wire Fence = 2,110 Lin. Ft.

MED-271-4.53

R/W PLAN Sta. 344+00 to 358+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

171/178

MEDINA COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1" = 50'

12/19

MEDINA COUNTY
GRANGER TWP
LOT 99
T-3N R-13W

Curve #4
P.I. Sta. 362+90.47
Δ = 29°-00'-19" Lt.
D = 00°-28'-00"
R = 12,277.67'
L = 6,215.42'
T = 3,175.82'
E = 404.09'

Cultivated Field

870.82' N 77°-28'-51" E

LA R/W

Type 47 Fence

363+81.47
220.0'

365+00.0
220.0'

Cultivated Field

116.40 N 79°45'20" E

497.38' N 86°-24'-03" E

372+35.26
230.0'

359.13' N 79°-11'-14" E

370+00.0
150.0'

245.05' N 57°-32'-37" E

MED-271-6.442

MED-271-6.19

540'

359+82

360

Curve # 4

+37.00

365

℄ Survey I-271

370

372+67

Begin Sheet, Sta. 358+00

End Sheet, Sta. 374+00

397.63'
N 01°-27'-46" E
224.37'

456.10'
N 05°-53'-04" E
243.81'

+52.39

108"

52 WL

53 WL

54 WL

Easement unknown
Ohio Fuel Gas Co.
2" Line

Type 47 Fence

Easement unknown
Ohio Fuel Gas Co.
2" Pipe

Ohio Fuel Gas Co. G Line 2

Easement unknown

Farm Road To be abandoned

157.37'
N 82°-24'-24" W

461.13' S 78°-20'-46" W

401.91' S 76°-37'-05" W

391.61' S 84°-59'-10" W

424.37' S 71°-43'-57" W

370+82.96'
200.0'

358+50.0
195.0'

363+03.74
190.0'

Gas Meter
367+00.0
150.0'

369+50.0
181.23'

136.31'

N 47°-19'-59" W
89.62'

98.93'

S 29°-13'-08" W
120.17'

371+80.0
191.72'

G2.33'

74.08'

42.87'

N 89°-03'-54" W

N 89°-44'-27" W

370+00.0
255.0'

370+59.22
270.0'

371+00.0
280.0'

53 T

54 T

SAMUEL & PATRICA A. OLDFIELD
52 WL
Cont. 11.43Ac±

Landlocked Parcel
13 Ac.±

005-005-00-025.00
KAROL S. & AMELIA ADAMS
53 WL
Cont. 6.72Ac.±
53 T
Cont. 0.15Ac±

Landlocked Parcel
8.5 Ac.±

TANK

Woods

GREEN VALLEY OUTING CLUB INC.
54 WL
Cont. 12.80Ac±
54 T
Cont. 0.12Ac±
54 T-1
Cont. 0.05 Ac.±
54 T-2
Cont. 0.21 Ac.±

Landlocked Parcel
31 Ac.±

ESTIMATED QUANTITIES
I-25 Type 47 Woven Wire Fence = 3,390 Lin. Ft.

TYPE OF FUNDS
INTERSTATE FUND
AUG 16 1965

REVISIONS
8-24-65 Par. 52+53 Drawn ft.

MED-271-4.53

R/W PLAN STA. 358+00 to 374+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

172
178

MEDINA COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1"=50'

13
19

CURVE #4
P.I. Sta. 382+90.47
Δ = 29°-00'-19" Lt.
D = 0°-28'-00"
R = 12,277.67'
L = 6,215.42'
T = 3,175.82'
E = 404.09'

MEDINA COUNTY
GRANGER TWP.
LOTS 99, 100
T-3N R-13W

LOT 99 LOT 100

Cont. 0.05 Ac.±
54 T-1
373+90 220.65
374+35 260' N75°-01'-52"E
374+70 260' S15°-02'-52"E
374+70 215.11
N33°-29'-37"E 59.12'
76.78'
34.25'
44.89'
N79°-11'-14"E 359.13'
376+00 205'
LA R/W N77°-46'-45"E 593.26'
382+00 155'
N71°-48'-43"E 296.31'
385+00 150'
174.49' N44°-19'-00"E
Cont. 0.21 Ac.±
54 T-2
386+60 225'
156.99' N87°-37'-02"E
388+11.28 175'
384.37' N71°-30'-50"E
N64°-45'-57"E 308.17'
Type 47 Fence
Limit of Constr.
Water
1 Sty. Res. (Club House)
MED-271-6.71
84"
191.41'
387+72'
387+33.20
386+90
Begin Sheet, Sta. 374+00
375
℄ Survey I-271
380
Fr. Shed (Toilet)
Volley Ball Court
385
1½ Sty. Fr. Res.
Fr. Shed (Toilet)
No sanitary facilities except 1 Sty. Fr. Res. outhouses
1 Sty. Fr. Res.
Drives to be abandoned
Fr. Shed (Toilet)
54 WL
55 WL
End Sheet, Sta. 389+00
N2°-46'-04"E
Easement unknown
2 wires Ohio Edison Company
3 wires
Water Well (Drilled) 171.0'
Fr. Shed
Limit of Constr.
Type 47 Fence
424.37' S71°-43'-57"W
405.69' S71°-03'-11"W
LA R/W
304.21'
S-75°-04'-19"W
2'
462.01'
S-72°-20'-32"W
LA R/W
S66°-58'-40"W 349.64'
375+00 170'
379+00 150'
382+00 165'
386+55.40 180'
Fr. Shed
Frame Cabin (Poor) No Foundation
1 Sty. Conc. Res.

LOT 99
005-005-00-027-00

LOT 100
005-005-00-019-00

GREEN VALLEY OUTING CLUB INC.
54 WL
Cont. 12.80 Ac.±
7.50 Ac - 005-005-00-027-00
5.30 Ac - 005-005-00-019-00

Landlocked Parcel
31 Ac.±

GUSTAV C. & LEONA F. STOBBE
55 WL
Cont. 11.06 Ac.±
005-005-00-018-00
Landlocked Parcel
25 Ac.±

AUG 16 1965

REVISIONS
10/7/65 Topo. on Par. 54 WL Corrected J.R.Y.

ESTIMATED QUANTITIES
I-25 Type 47 Woven Wire Fence = 3,030 Lin. Ft.

TYPE OF FUNDS
INTERSTATE FUND

MED-271-4.53

R/W PLAN Sta. 374+00 to 389+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

173
178

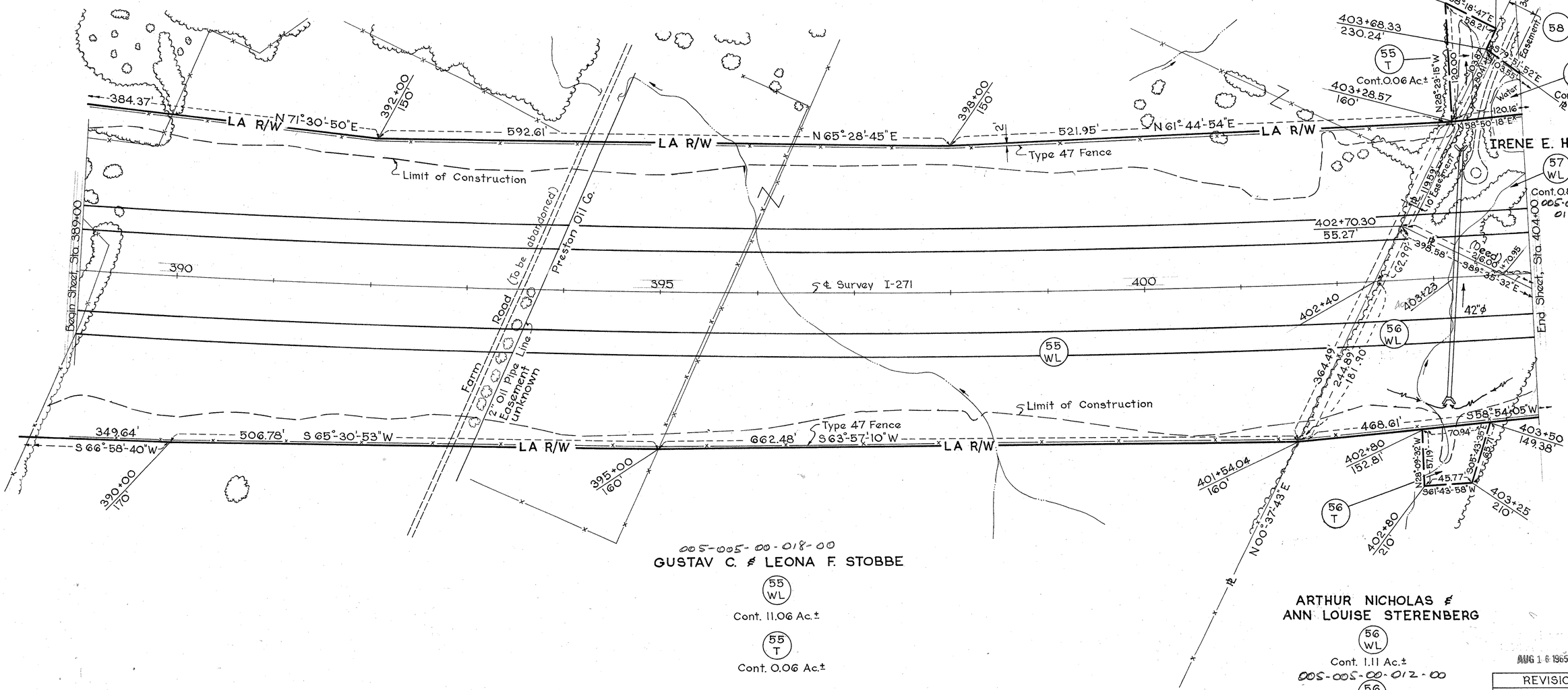
MEDINA COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1"=50'

14
19

CURVE #4
P.I. Sta. 382+90.47
Δ = 29°-00'-19" Lt.
D = 0°-28'-00"
R = 12,277.67'
L = 6,215.42'
T = 3,175.82'
E = 404.09'

MEDINA COUNTY
GRANGER TWP.
LOT 100
T-3N R-13W

LOT 100


384.37'
LA R/W
N 71°-30'-50"E
392+00
150
592.61'
LA R/W
N 65°-28'-45"E
398+00
150
521.95'
N 61°-44'-54"E
LA R/W
Limit of Construction
Type 47 Fence
Begin Sheet, Sta. 389+00
390
395
400
℄ Survey I-271
Road (To be abandoned)
Preston Oil Co.
Farm
2" Oil Pipe Line Easement unknown
55 WL
349.64'
S 66°-58'-40"W
506.78'
S 65°-30'-53"W
662.48'
S 63°-57'-10"W
LA R/W
390+00
170
395+00
160'
Limit of Construction
Type 47 Fence
468.61'
S 58°-54'-05"W
402+80
152.81'
401+54.04
160'
N 00°-37'-43"E
56 T
56 WL
402+80
210
N 28°-09'-32"W
57.19'
45.77'
S 61°-43'-58"W
N 08°-43'-35"E
66.71'
403+25
210
403+50
149.38'
402+70.30
55.27'
402+40
403+23
42"ϕ
364.49'
244.89'
181.90'
End Sheet, Sta. 404+00
403+28.57
280
S 88°-16'-47"E
58.21'
403+68.33
230.24'
403+80
250.72'
30' Easement
55 T
Cont. 0.06 Ac.±
403+28.57
160'
N 28°-23'-15"W
120.00'
N 03°-51'-52"E
Water
120.16'
N 58°-50'-18"E
57 T
Cont. 0.10 Ac.±
58
57 WL
Cont. 0.81 Ac.±
005-005-00-013-00
Ac. 2.96
(Deed)
398.58'
S 89°-35'-32"E
+0.95
Ac. 2.96
Ac. 0.95
Ac. 1.91
Ac. 0.90
Ac. 0.95
Ac. 1.91
Ac. 0.90
Ac. 0.95
Ac. 1.91
Ac. 0.90

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

174 / 178

15 / 19

MEDINA COUNTY SUMMIT CO.
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1"=50'

SUMMIT COUNTY
BATH TWP.
LOT 1
T-3N R-12W
Cont. 0.34 Ac±

SUMMIT COUNTY
RICHFIELD TWP.
LOT 1, TRACT 2
T-4N R-12W

CURVE #4
P.I. Sta. 382+90.47
Δ = 29°-00'-19" Lt.
D = 0°-28'-00"
R = 12,277.67'
L = 6,215.42'
T = 3,175.82'
E = 404.09'

MEDINA COUNTY
GRANGER TWP.
T-3N R-13W
LOT 100

REV. J. RICHARD GAFFNEY &
FRANCIS M. GAFFNEY
58 WL
Cont. 2.74 Ac.±
005-005-00-011-00

PETER & MARY SHROBA
62
Cont. 0.11 Ac±
P.R.O. 0.35 Ac±
Total 0.46 Ac±

IRENE E. HENLEY
57 WL
Cont. 0.81 Ac.±
005-005-00-013-00

57 T
Cont. 0.10 Ac.±

ARTHUR NICHOLAS & ANN LOUISE STERENBERG
56 WL
Cont. 1.11 Ac.±
005-005-00-012-00

MILDRED BAYUS
59 WL
Cont. 6.77 Ac.±
P.R.O. 0.22 Ac.±
Total 6.99 Ac.±

59
Cont. 0.10 Ac.±
P.R.O. 0.17 Ac.±
Total 0.27 Ac.±

59 T
Cont. 0.40 Ac.±

59 T1
Cont. 0.26 Ac.±

GUSTAV C. & LEONA F. STOBBE
60 WL
Cont. 0.53 Ac.±
P.R.O. 0.22 Ac.±
Total 0.75 Ac.±

62 WL
Cont. 10.73 Ac±
P.R.O. 0.58 Ac±
Total 11.31 Ac±

62 T
Cont. 0.34 Ac±

Landlocked Parcel
0.15 Ac.±

Landlocked Parcel
13 Ac±

SUM-271-0.02

Begin Sheet, Sta. 404+00

End Sheet, Sta. 419+00

For Continuation of C.H. 47
See Sheet No. 16

ESTIMATED QUANTITIES
I-25 Type 47 Woven Wire Fence = 3,115 Lin. Ft.

WOODRUFF SUBDIVISION
TRACT XIII
AUG 1 6 1965

REVISIONS

TYPE OF FUNDS
INTERSTATE FUND

MED-271-4.53 / SUM-271-0.00

R/W PLAN Sta. 404+00 to 419+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

175
178

SUMMIT COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1"= 50'

16
19

SUMMIT COUNTY
LOT 1
T-3N R-12W
BATH TWP

COUNTY
LOT 1
T-4N R-12W
RICHFIELD TWP

PETER & MARY SHROBA

62 WL: Cont. 10.73 Ac.± P.R.O. 0.58 Ac.+ Total 11.31 Ac.±

62 A: Cont. 0.02 Ac.± P.R.O. 0.08 Ac.± Total 0.10 Ac.±

62 B: Cont. 0.24 Ac.± P.R.O. 0.27 Ac.± Total 0.51 Ac.±

62: Cont. 0.11 Ac.± P.R.O. 0.35 Ac.± Total 0.46 Ac.±

62 T: Cont. 0.34 Ac.±

KENNETH J. & MARGARET J. TAUCHER

69 WL: Cont. 0.49 Ac.± P.R.O. 0.11 Ac.± Total 0.60 Ac.±

69: Cont. 0.26 Ac.± P.R.O. 0.27 Ac.± Total 0.53 Ac.±

69 T: Cont. 0.34 Ac.±

For Continuation of C.H. 2 See Sheet No. 19

For Continuation of C.H. 2 See Sheet No. 19

JOSEPH R. & ANTOINETTE B. WAJDA

68 WL: Cont. 0.35 Ac.± P.R.O. 0.10 Ac.± Total 0.45 Ac.±

68: Cont. 0.25 Ac.± P.R.O. 0.18 Ac.± Total 0.43 Ac.±

68 T: Cont. 300 Sq. Ft.±

GUSTAV C. & LEONA F. STOBBE

60: Cont. 0.09 Ac.± P.R.O. 0.11 Ac.± Total 0.20 Ac.±

60 WL: Cont. 0.53 Ac.± P.R.O. 0.22 Ac.± Total 0.75 Ac.±

60 T: Cont. 0.78 Ac.±

WOODRUFF SUBDIVISION TRACT XIII

WOODRUFF SUBDIVISION TRACT XIV

RICHFIELD TWP LOT 1

BATH TWP LOT 1

Begin Sheet, Sta. 419+00

End Sheet, Sta. 435+00

N 89°-24'-49" E 633.22'

342.54'

S 60°-04'-19" W 394.71'

S 60°-29'-51" W 402.77'

687.38' N 53°-36'-09" E

765.65' N 59°-30'-22" E

N 89°-25'-49" E

N 55°-13'-18" E 320.56'

N 56°-56'-19" E

S 89°-24'-49" W 220.81'

S 89°-34'-41" E 612.15'

S 89°-34'-31" E 274.08'

S 52°-12'-10" W 666.20'

S 62°-28'-08" W 311.28'

299.66'

350.47'

186.28'

145.93'

174.88'

200.00'

102.03'

128.89'

131.86'

420+46.11 ⊕ 174.42'
10+74.19 ⊕ 50

421+48.00 ⊕ 180'
11+63.14 ℄ C.H.47

421+74.12 ⊕ 196.62'
11+94.10 ℄ C.H.47

11+09
170'

423+00
200

422+76.64 ⊕ 188'
12+75.96 ⊕ 62.32'

12+95
30'

12+95
50'

12+95
30'

425+50
205'

430+64.88
165.70'

434+15.00 ⊕ 9+59.45 ℄ C.H.2

434+06.52 ⊕ 137.35'
9+44.22 ℄ C.H.2

433+17.63 ⊕ 4.73'
7+84.57 ℄ C.H.2

432+95.17 ⊕ 28.78'
7+44.22 ℄ C.H.2

433+14.46 ℄ I-271
7+78.87 ℄ C.H.2

431+37.44 ⊕ 156.34'
5+50.05 ⊕ 60'

432+13.92 ⊕ 150' Rt.
5+98.29 ℄ C.H.2

432+93.05 ⊕ 157.66'
6+35.99 - 70'

435+23.76
180'

Limit of Constr.

Type 47 Fence

Exist. R/W

Fr. Shed

Barn

Barn

Drive to be abandoned

Drive to be abandoned

Cemetery

℄ Temporary Runaround

R/W of Temporary Runaround

EVERETT RD. C.H.47

MEDINA LINE RD.

Exist. R/W Limit of Constr.

N 00°-46'-19" E

℄ Survey I-271

420

425

430

5G°10'

ESTIMATED QUANTITIES
I-25 Type 47 Woven Wire Fence = 2,580 Lin. Ft.

REVISIONS

TYPE OF FUNDS
INTERSTATE FUND

SUM-271-0.00

R/W PLAN Sta. 419+00 to 435+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

176
178

MED-271-453
SUM-271-0.00
LIMITED ACCESS
SCALE: 1"=50'

17
19

SUMMARY FENCE QUANTITIES

Sht.No.	Sta. to Sta.	Lin.Ft.	Sht.No.	Sta. to Sta.	Lin.Ft.
5	258+00 272+00	475	12	358+00 374+00	3,320
6	272+00 287+00	3,080	13	374+00 389+00	3,030
7	287+00 301+00	2,800	14	389+00 404+00	3,004
8	301+00 315+00	2,800	15	404+00 419+00	3,115
9	315+00 329+00	2,800	16	419+00 435+00	2,580
10	329+00 344+00	1,370	17	435+00 450+00	3,050
11	344+00 358+00	2,110	18	450+00 465+00	1,440
				TOTAL	35,044

See Sheet 19 for Medina Line Rd.
E. MEDINA LINE RD. CH. 2
Exist. R/W
R/W
Drive to be abandoned
Drive to be abandoned
Drive to be abandoned
Limit of Constr.
Limit of Constr.
Type 47 Fence
Type 47 Fence
Water
Water
Water
Septic tank & field
Fr. Shed
Shed
1½ Sty. Fr. Res.
1 Sty. Fr. Res.
Basin Sheet, Sta. 435+00
End Sheet, Sta. 450+00
℄ Survey I-271
SUM-271-0.65
48"
℄

FERN E. CASS

65 AWL — Cont. 0.28 Ac.±

65 — Cont. 0.16 Ac.±; P.R.O. 0.14 Ac.±; Total 0.30 Ac.±

65 T — Cont. 0.49 Ac.±

65 T-1 — Cont. 0.14 Ac.±

FERN E. CASS — 65

66 T — Cont. 0.03 Ac.±

SUMMIT COUNTY
RICHFIELD TWP.
LOT 1
T-4N R-12W

DONALD J. & FERN E. CASS
65 WL — Cont. 2.60 Ac.±

ARTHUR & JOHN NITTI
72 — Cont. 0.06 Ac.±; P.R.O. 0.20 Ac.±; Total 0.26 Ac.±

DONALD J. CASS & FERN E. CASS

JOSEPH R. & ANTOINETTE B. WAJDA
68 WL — Cont. 0.35 Ac.±; P.R.O. 0.10 Ac.±; Total 0.45 Ac.±

FRANK DOMAIN
67 WL — Cont. 1.89 Ac.±; P.R.O. 0.14 Ac.±; Total 2.03 Ac.±

JOHN RUSSELL & RUTH FOX
66 — Cont. 0.13 Ac.±; P.R.O. 0.12 Ac.±; Total 0.25 Ac.±
66 WL — Cont. 3.00 Ac.±; P.R.O. 0.02 Ac.±; Total 3.02 Ac.±
66 T — Cont. 0.03 Ac.±

FRANK ZODNIK
71 WL — Cont. 0.22 Ac.±

GEORGE FELKER

C. J. JR. & A. H. GERACI

GEORGE FELKER

Landlocked Parcel Cont. 1.29 Ac.±

Landlocked Parcel 2.86 Ac.±

Landlocked Cont. 0.11 Ac.±

Landlocked Parcel 10.89 Ac.±

ESTIMATED QUANTITIES
I-25 Type 47 Woven Wire Fence = 3,050 Lin. Ft.

TYPE OF FUNDS
INTERSTATE FUND

REVISIONS
1-3-66 Rev. Par. 65-T, 65-T1

SUM-271-0.00

R/W PLAN Sta. 435+00 to 450+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

177
178

SUMMIT COUNTY
MED/SUM-271-4.53/0.00
LIMITED ACCESS
SCALE: 1"=50'

18
19

SUMMIT COUNTY
LOTS 1,2,17,18
T-4N R-12W

I-271-G(14)224 | I-271-G(15)

END PROJECT STA. 452+00 | SUM-271-0.50

Begin Sheet, Sta. 450+00

End Sheet, Sta. 465+00

N55°-57'-18"E — 874.33' — LA R/W — 2'

453+74.20
200.0'

454+19.60
170.0'

54.42'

583.20'

+76.83
℄ I-271 Survey
N 56°-56'-19"E

455

460

+25.00

END WORK
STA 460+58

Limit of Const.

LOT-2

LA R/W

LA R/W

LA R/W

576.39'

N57°-48'-15"E
662.05'

N00°-33'-19"E
204.14'

86.37'

72
WL

72

Shed

Iron pins

Ohio Edison Co.

S89°-36'-05"E

N00°-33'-56"E
115.46'

459+06.15
151.55'

459+50.71
181.0'

53.41'

S89°-39'-37"E
181.60'

N55°-16'-00"E

LA R/W

377.04'

N55°-21'-05"E — 541.61'

S89°-57'-24"E
445.95'

R 128.21'

115.50'

179.56'

S52°-56'-04"W — LA R/W — 501.23'

364.78'

S68°-16'-22"W

S57°-58'-44"W — 550.78'

2'

452+00.0
215.0'

457+00.0
180.0'

460+57.67
251.69'

LOT-1

LOT-17

LOT-18

S89°-58'-18"E

N00°-15'-19"E — LA R/W

416.81'

ARTHUR & JOHN NITTI

Cont. 0.06 Ac.±
PRO 0.20 Ac.±
Total 0.26 Ac.±

Cont. 12.06 Ac.±

(10.89 Ac.± L.L.)

END ACQUISITION MED-271-4.53 | BEGIN ACQUISITION SUM-271-0.50

TYPE OF FUNDS
Interstate Fund

AUG 1 0 1965

REVISIONS

Estimated Quantities
I-25 Woven wire fence, Type 47
1,440 Lin. Ft.

R/W PLAN Sta. 450+00 to 465+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-271-G(14)224	

178
178

19
19

MED-271-4.53
SUM-271-0.00
LIMITED ACCESS
SCALE: 1"=50'

SUMMIT COUNTY
LOT 1
T-4N R-12W

G9 WL — Cont. 0.49 Ac.± P.R.O. 0.11 Ac.± Total 0.60 Ac.±

G9 — Cont. 0.26 Ac.± P.R.O. 0.27 Ac.± Total 0.53 Ac.±

G9 T — Cont. 0.37 Ac.±

PETER & MARY SHROBA

70 — Cont. 0.04 Ac.± P.R.O. 0.12 Ac.± Total 0.16 Ac.±

ALFRED HOPPE

P.I. Sta. 2+78.00
Δ = 2°-18'-30"
No Curve

G2 WL — Cont. 10.73 Ac.± P.R.O. 0.58 Ac.± Total 11.31 Ac.±

G2 B — Cont. 0.24 Ac.± P.R.O. 0.27 Ac.± Total 0.51 Ac.±

KENNETH J. & MARGARET J. TAUCHER

ELSIE A. HESS

G3 — Cont. 0.06 Ac.± P.R.O. 0.20 Ac.± Total 0.26 Ac.±

LOT 1
RICHFIELD TWP

STEVE J. & VIRGINIA T. WARGO

G4 — Cont. 0.04 Ac.± P.R.O. 0.09 Ac.± Total 0.13 Ac.±

JOSEPH R. & ANTOINETTE B. WAJDA

G8 WL — Cont. 0.35 Ac.± P.R.O. 0.10 Ac.± Total 0.45 Ac.±

G8 — Cont. 0.25 Ac.± P.R.O. 0.18 Ac.± Total 0.43 Ac.±

G8 T — Cont. 300 Sq. Ft.±

FRANK DOMAIN

G7 WL — Cont. 1.89 Ac.± P.R.O. 0.14 Ac.± Total 2.03 Ac.±

JOHN RUSSELL & RUTH FOX

G6 — Cont. 0.13 Ac.± P.R.O. 0.12 Ac.± Total 0.25 Ac.±

G6 T — Cont. 0.03 Ac.±

GG WL — Cont. 3.00 Ac.± P.R.O. 0.02 Ac.± Total 3.02 Ac.±

FERN E. CASS

G5 WL — Cont. 2.60 Ac.±

ARTHUR & JOHN NITTI

72

TYPE OF FUNDS
INTERSTATE FUND
AUG 16 1963

REVISIONS
1-3-66 Rev. Par. 65-T, 65-T1 & Par. 69-T

SUM-27.1-0.00

R/W PLAN, MEDINA LINE RD. C.H. 2

TE-95
400-1-63

GENERAL INFORMATION

INTRODUCTION

The project consists of the construction of 3.0 miles of IR 271, beginning 0.5 mile east of SR 94, 0.4 mile north of Co. Rd. 37 (Remson Rd.), extending east-northeastward, and terminating 1600 feet east of Medina Line Road, 1800 feet north of Everett Road.

Proposed grade indicates cuts, maximum 42 feet in depth; fill embankments, maximum 41 feet in height.

GEOLOGY AND OBSERVATIONS OF THE PROJECT

The alignment traverses a rolling, dissected portion of the western edge of the Allegheny Plateau, where shallow to moderately deep glacial drift overlies indurated clay, shale, and sandstone bedrock, of Pennsylvanian and Mississippian age. Outcropping of bedrock were observed and measured between stations 346+75 and 351+00.

EXPLORATION

Exploratory borings were made by means of truck-mounted mechanical soil auger, hand auger (in areas of difficult access), and rotary type drill rig, during August, September, and October, 1964.

INVESTIGATIONAL FINDINGS

Materials occurring immediately below proposed grade consist of silt clays (A-6a) and occasional silts (A-4a and A-4b), having moisture contents generally below the plastic range, as well as shale and sandstone bedrock.

Bedrock is anticipated to occur in the excavations in the following areas:

Stations 323+00 to 327+00 - Sandstone in the left ditch and lower portion of the left backslope.

Stations 327+00 to 330+00 - Sandstone at left grade and in the left ditch and lower portion of the left backslope.

Stations 332+00 to 333+00 - Sandstone in the right ditch and lower portion of the right backslope.

Stations 333+00 to 341+00 - Sandstone at both grades and in both ditches and backs opes.

Stations 341+00 to 346+00 - Shale at both grades and in both ditches and lower portions of both backslopes; sandstone in the upper portions of both backslopes.

Stations 346+00 to 348+00 - Shale at both grades, in both ditches and lower portion of the right backslope; sandstone in the upper portion of the right backslope.

Stations 348+00 to 348+50 - Shale at both grades and in the right ditch and lower portion of the right backslope; sandstone in the upper portion of the right backslope.

Stations 348+50 to 350+00 - Shale and sandstone at right grade and in the right ditch; shale in the lower portion of the right backslope - sandstone in the upper portion.

Stations 350+00 to 350+50 - Shale and sandstone in the right ditch and lower portion of the right backslope.

Frost susceptible silts were encountered within three feet below proposed grade at stations 297+00, 393+50, 400+00, 419+00, and 426+00.

Embankment foundation materials consist predominantly of silt clays (A-6) with occasional sandy silts (A-4a) and clay (A-7-6), generally with moisture contents in the lower portion of or below the plastic range.

Wet materials were encountered at stations 359+50, 365+00 (150' left of centerline), 373+00, 378+25, 1442+00, and 1447+00.

A localized deposit of sedimentary peat was encountered at station 359+50.

LEGEND FOR PROJECT AVERAGE RESULTS OF TESTS — 130 SAMPLES TESTED

DESCRIPTION	H.R.B. CLASS	OHIO CLASS	% AGG.	% C. SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	SAMPLES TESTED
Gravel with sand	A-1-b(0)	A-1-b	55	12	10	12	11	19	3	17	1
Gravel and/or stone fragments with sand and silt	A-2-4(0)	A-2-4	50	14	8	16	12	NP	NP	13	2
Gravel and stone fragments with sand, silt, and clay	A-2-6(2)	A-2-6	54	8	4	17	17	29	22	14	1
Sandy silt	A-4(4)	A-4a	19	8	19	29	25	23	4	16	29
Silt	A-4(8)	A-4b	2	2	5	56	35	27	4	20	15
Silt and clay	A-6(8)	A-6a	8	4	8	37	43	30	11	17	68
Silty clay	A-6(11)	A-6b	13	6	7	32	42	36	18	19	4
Clay	A-7-6(12)	A-7-6	1	2	5	37	55	43	18	22	7
Sedimentary peat			VISUAL CLASSIFICATION								1
Weathered indurated clay			VISUAL CLASSIFICATION								2
Weathered shale			VISUAL CLASSIFICATION								
Weathered sandstone			VISUAL CLASSIFICATION								
Shale			VISUAL CLASSIFICATION								
Sandstone			VISUAL CLASSIFICATION								
Various other materials.			VISUAL CLASSIFICATION								

Sod and/or Topsoil =X'= Approximate depth.

Auger boring - plan view.

Drive sample or core boring - plan view.

Auger boring plotted to vertical scale only.

Drive sample or core boring plotted to vertical scale only.

● Water content nearly equal to or greater than liquid limit.

⊖ Indicates a non-plastic material with a high water content.

——W Free water.

(X/Y) Number of blows for "Standard Penetration" test.
X=number of blows for first 6 inches.
Y=number of blows for second 6 inches.

NOTE: Figures beside borings indicate water content in percent. e.g. 15

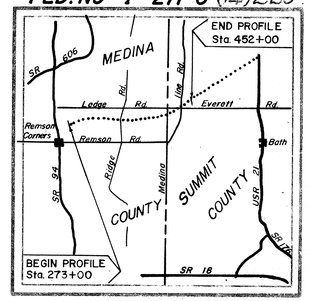
SOIL PROFILE
MEDINA-SUMMIT COS.
MED-271-4.53
SUM-271-0.00

1/19

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1620 W. BROAD ST. COLUMBUS 23, OHIO

NOTE: INFORMATION SHOWN BY THIS SUBGRADE PROFILE WAS OBTAINED SOLELY FOR USE IN ESTABLISHING DESIGN CONTROLS FOR THE PROJECT. THE STATE OF OHIO DOES NOT GUARANTEE THE ACCURACY OF THIS DATA AND IT IS NOT TO BE CONSTRUED AS A PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT.

FED. NO I-271-6 (14)225



LOCATION MAP

Recon- J.S.M.- 8/27/64
Drilling- Auger
A.J.P.- 8/26/64 to 9/1/64, 9/21/64
C.M.C- 8/25/64 to 8/28/64
Core
D.W.B.- 10/16/64 to 10/27/64
Drafting- A.F., E.J.S. 11/12/64

TE-95
466-1-63

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OHIO STATE HIGHWAY TESTING LABORATORY
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2
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SUMMARY OF SOIL TEST DATA

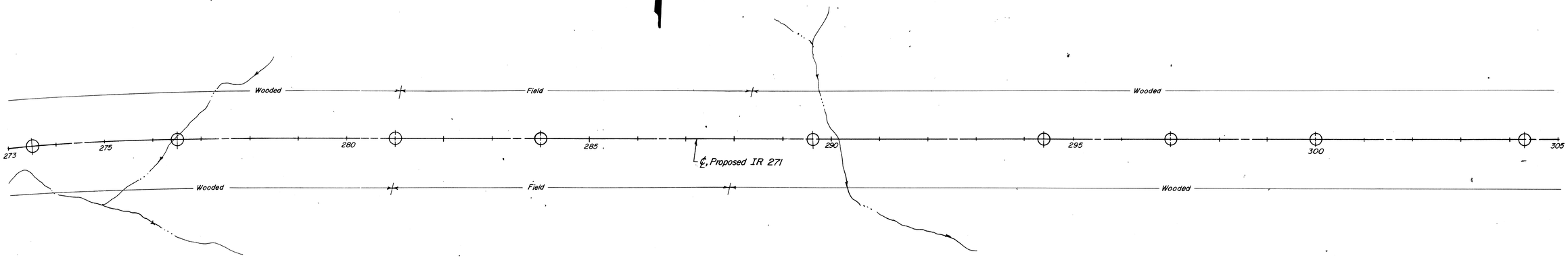
NOTE: NP shown in Liquid Limit and Plasticity Index columns indicates that the material is non-plastic.
*Denotes sample taken at or near grade.

STATION & OFFSET		DEPTH FROM-TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SHTL CLASS.
273+50	CL	0.3-3.5	Light-Brown Weathered Indurated Clay							13	Visual
276+50	CL	0.3-3.0	Brown and Gray Weathered Indurated Cloy							16	Visual
281+00	CL	0.4-6.0	0	2	6	35	57	32	11	15	A-6a *
		6.0-10.0	0	2	3	33	62	32	11	19	A-6a
		10.0-12.0	8	8	11	32	41	23	11	16	A-6a
284+00	CL	0.6-5.0	9	2	6	22	61	29	11	14	A-6a
		5.0-10.0	11	8	13	28	40	27	11	14	A-6a
289+60	CL	0.6-4.0	29	8	6	32	25	30	11	10	A-6a
		4.0-8.0	40	10	11	17	22	28	9	13	A-4a
		8.0-12.0	35	6	13	28	18	22	5	13	A-4a
294+40	CL	0.6-4.0	21	5	13	26	35	31	11	18	A-6a *
		4.0-8.0	14	5	11	30	40	29	11	12	A-6a
		8.0-10.0	26	7	12	28	27	22	7	14	A-4a
297+00	CL	0.6-5.0	14	6	12	33	35	26	11	12	A-6a
		5.0-10.0	16	6	11	34	33	26	11	14	A-6a *
		10.0-13.0	13	9	16	24	38	24	7	13	A-4a *
		13.0-16.0	24	7	16	14	39	20	4	13	A-4a
		16.0-20.0	26	3	9	33	29	20	5	14	A-4a
300+00	CL	0.6-5.0	17	5	9	41	28	31	11	20	A-6a *
		5.0-10.0	15	7	12	39	27	25	11	10	A-6a
304+30	CL	0.6-5.0	14	7	13	34	32	28	11	9	A-6a
		5.0-10.0	12	5	12	35	36	29	11	13	A-6a *
		10.0-15.0	20	7	8	29	36	25	11	19	A-6a
		15.0-18.0	16	8	13	26	37	25	11	15	A-6a
306+00	CL	0.6-5.0	15	5	11	40	29	29	11	13	A-6a *
		5.0-10.0	25	6	9	27	33	29	11	14	A-6a
312+50	100'Lt	0.5-5.0	4	2	5	41	48	41	18	24	A-7-6
		5.0-8.0	0	5	17	35	43	31	11	24	A-6a
		8.0-10.0	15	6	12	34	33	26	11	13	A-6a
312+50	CL	0.6-4.0	19	3	11	33	34	36	16	17	A-6b
314+00	CL	0.0-2.0	25	5	14	30	26	29	8	14	A-4a
		2.0-6.0	32	16	10	21	21	36	16	16	A-6b
		6.0-10.0	0	8	14	42	36	25	11	13	A-6a
318+00	CL	0.6-3.0	0	5	10	43	42	41	19	23	A-7-6
323+00	CL	0.5-3.0	30	6	10	28	26	38	15	23	A-6a *
326+00	25'Lt	0.0-2.0	14	7	12	37	30	32	12	21	A-6a *
		2.0-8.0	15	9	30	28	18	18	3	12	A-4a *
331+50	CL	0.0-4.0	32	12	13	21	22	30	9	10	A-4a *
		4.0-7.0	10	6	11	42	31	25	11	15	A-6a
		7.0-9.5	10	7	14	41	28	22	6	14	A-4a
		9.5-12.0	39	24	10	16	11	NP	NP	9	A-2-4
338+00	CL	0.5-3.0	10	8	15	37	30	30	11	13	A-6a
		3.0-8.0	7	6	8	43	36	28	11	14	A-6a
350+00	CL	0.0-2.5	40	6	9	27	18	27	6	13	A-4a *
353+00	CL	0.0-2.0	61	3	6	17	13	NP	NP	16	A-2-4
356+00	CL	0.0-2.5	12	7	14	32	35	27	11	11	A-6a
359+50	CL	0.0-1.5	0	6	18	46	30	NP	NP	40	A-4a
		1.5-3.0	Gray Sedimentary Peat							81	Visual
		3.0-8.0	13	5	13	38	31	25	5	19	A-4a
		8.0-10.0	17	5	10	44	24	22	5	19	A-4a
365+00	150'Lt	0.6-4.0	43	11	10	19	17	30	7	14	A-4a
		4.0-7.0	0	1	3	24	72	44	19	16	A-7-6
		7.0-11.0	0	1	3	54	42	26	8	28	A-4b
		11.0-15.0	29	14	2	27	28	NP	NP	16	A-4a
365+00	CL	0.6-5.0	0	2	5	46	47	31	11	16	A-6a
		5.0-10.0	9	12	20	36	23	22	3	17	A-4a
369+00	CL	0.6-5.0	0	0	1	55	44	45	19	23	A-7-6
		5.0-10.0	0	0	3	56	41	34	12	21	A-6a
		10.0-12.0	0	0	1	58	41	36	12	27	A-6a
373+00	CL	0.3-3.0	13	7	38	29	13	NP	NP	15	A-4a
		3.0-5.0	8	8	44	14	26	NP	NP	38	A-4a
		5.0-6.5	15	3	9	50	23	22	4	19	A-4b
378+25	CL	0.0-2.0	0	4	11	42	43	35	11	16	A-6a
		2.0-6.0	21	3	10	36	30	29	12	12	A-6a
		6.0-10.0	0	1	4	58	37	NP	NP	23	A-4b
380+00	CL	0.2-3.0	0	3	8	35	54	34	11	13	A-6a *
383+40	CL	0.3-6.0	0	2	3	21	74	48	23	19	A-7-6
		6.0-9.0	0	1	2	58	39	29	7	20	A-4b
		9.0-10.0	13	12	24	32	19	NP	NP	15	A-4a
		10.0-15.0	0	4	8	43	45	30	11	16	A-6a *
		15.0-20.0	9	4	7	33	47	29	11	17	A-6a *
387+00	CL	0.4-3.0	35	6	22	15	22	NP	NP	8	A-4a
393+50	CL	0.4-5.0	0	3	2	42	53	35	11	15	A-6a
		5.0-11.0	0	2	6	34	58	35	12	19	A-6a *
		11.0-16.0	0	2	1	65	32	28	2	25	A-4b *
		16.0-20.0	0	1	1	67	31	NP	NP	11	A-4b
396+00	CL	0.8-4.0	0	2	10	36	52	35	15	15	A-6a *
		4.0-10.0	0	4	8	36	52	31	11	16	A-6a *
		10.0-13.0	0	1	5	35	59	33	12	18	A-6a
		13.0-14.5	54	8	4	17	17	29	22	14	A-2-6
		14.5-17.0	0	2	3	38	57	30	20	18	A-6b
		17.0-18.0	31	14	16	14	25	18	4	11	A-4a
		18.0-20.0	0	3	5	35	57	29	11	19	A-6a
400+00	CL	0.7-4.0	0	3	8	45	44	31	11	13	A-6a
		4.0-9.0	0	2	5	36	57	34	12	17	A-6a
		9.0-13.0	55	12	10	12	11	19	3	17	A-1-b *
		13.0-18.0	0	1	6	52	41	27	8	21	A-4b *
		18.0-25.0	0	2	5	39	54	30	11	22	A-6a
403+50	CL	0.0-3.0	0	4	10	47	39	41	12	21	A-7-6
		3.0-7.0	0	4	29	42	25	NP	NP	8	A-4a
		7.0-10.0	0	2	4	38	56	30	11	19	A-6a
406+50	CL	0.5-3.5	0	3	8	47	42	35	15	7	A-6a
412+70	CL	0.0-5.0	21	12	15	33	19	25	8	18	A-4a
		5.0-9.0	7	7	11	55	20	NP	NP	18	A-4b
		9.0-15.0	0	3	7	45	45	28	11	16	A-6a
414+50	CL	0.3-3.0	0	1	3	43	53	39	14	17	A-6a *
419+00	CL	0.3-5.0	9	3	7	43	38	28	11	17	A-6a
		5.0-9.0	0	5	9	50	36	26	7	15	A-4b
		9.0-15.0	0	7	9	41	43	28	11	16	A-6a
		15.0-20.0	0	5	8	50	37	26	9	17	A-4b *
		20.0-25.0	16	3	3	44	34	25	11	17	A-6a *
		25.0-30.0	0	3	6	50	41	26	7	17	A-4b
433+00	CL	0.6-3.0	0	1	5	38	56	40	18	24	A-6b *
		3.0-8.0	0	1	1	20	78	40	13	22	A-6a *
		8.0-11.0	0	0	0	26	74	41	16	27	A-7-6
		11.0-15.0	0	1	55	27	17	NP	NP	10	A-4a
438+00	100'Rt	0.7-3.0	0	0	1	50	49	36	12	26	A-6a
		3.0-8.0	0	2	6	41	51	29	11	20	A-6a
		8.0-13.0	0	2	4	29	65	36	13	23	A-6a
		13.0-17.0	0	0	0	50	50	33	10	23	A-4b
		17.0-20.0	0	0	1	38	61	37	13	28	A-6a
442+00	CL	0.6-5.0	4	6	7	47	36	32	11	25	A-6a
		5.0-10.0	0	1	2	72	25	NP	NP	24	A-4b
		10.0-15.0	0	2	7	59	32	NP	NP	19	A-4b
447+00	CL	0.6-5.0	0	3	16	43	38	27	11	16	A-6a
		5.0-8.0	0	8	22	41	29	22	4	21	A-4a
		8.0-12.0	0	5	18	38	39	21	6	15	A-4a
451+40	CL	0.6-5.0	23	11	21	22	23	22	4	9	A-4a
		5.0-10.0	18	4	8	46	24	33	13	17	A-6a
		DRIVE SAMPLE SOIL TEST DATA									
426+00	CL	5.0-6.0	15	3	8	36	38	29	11	19	A-6a
		10.0-11.0	13	5	11	37	34	28	6	17	A-4a
		15.0-16.0	21	3	6	33	37	32	11	18	A-6a
		20.0-21.0	22	4	7	30	37	26	11	17	A-6a
		25.0-26.0	16	4	7	34	39	28	11	18	A-6a
		30.0-31.0	22	4	7	36	31	27	11	17	A-6a
		35.0-36.0	0	7	10	50	33	25	5	21	A-4b *
		40.0-41.0	0	11	7	39	43	27	11	22	A-6a *
		45.0-46.0	17	3	6	35	39	28	11	18	A-6a
		50.0-51.0	0	3	6	35	56	33	11	19	A-6a
		55.0-56.0	14	2	4	38	42	28	11	22	A-6a

SOIL PROFILE
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OHIO STATE HIGHWAY TESTING LABORATORY
1620 W BROAD ST COLUMBUS 23, OHIO



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OHIO STATE HIGHWAY TESTING LABORATORY
1620 W. BROAD ST. COLUMBUS 23, OHIO

Wooded — Cultivated

305 310 315 320 325 330 335 337

℄, Proposed IR 271

Wooded — Cultivated

℄ Sod=0.6'
13
14

℄ Sod=0.6' 100' Lt. TS=0.5'
17
24
24
13
Refusal (Boulders) (Hand auger)

℄
14
16
13

℄ TS=0.6'
23
Refusal (Hand auger)

(Southbound Lanes)

(Northbound Lanes)

℄ TS=0.5'
23
Refusal (Hand auger)

25' Lt.
21
12
Refusal

℄
10
15
14
9

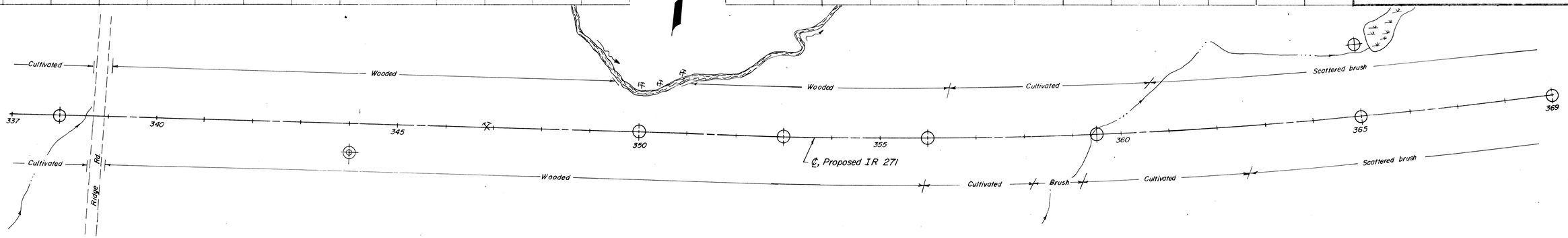
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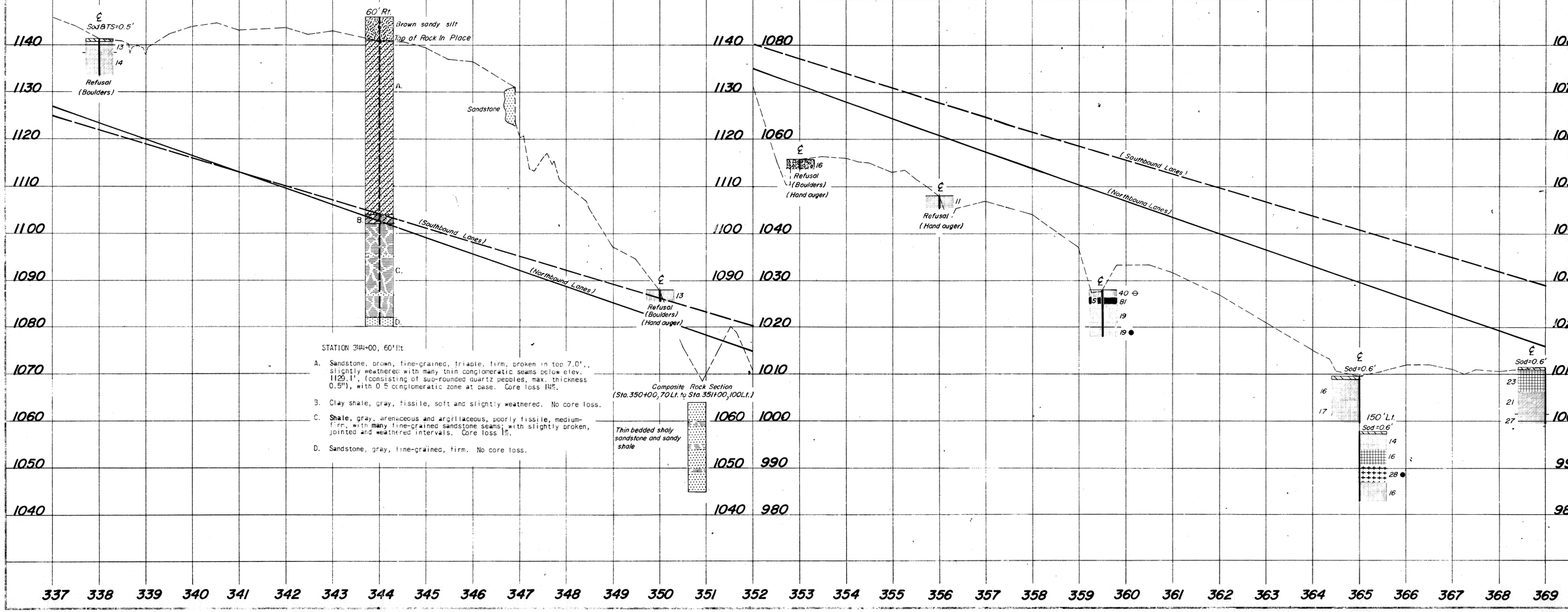
305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337

SOIL PROFILE
MEDINA-SUMMIT COS.
MED-271-4.53
SUM-271-0.00

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OHIO STATE HIGHWAY TESTING LABORATORY
1620 W. BROAD ST. COLUMBUS 13, OHIO





STATION 344+00, 60' Rt

A. Sandstone, brown, fine-grained, friable, firm, broken in top 7.0', slightly weathered with many thin conglomeratic seams below elev. 1129.1', (consisting of sub-rounded quartz pebbles, max. thickness 0.5"), with 0.5 conglomeratic zone at base. Core loss 14%.

B. Clay shale, gray, fissile, soft and slightly weathered. No core loss.

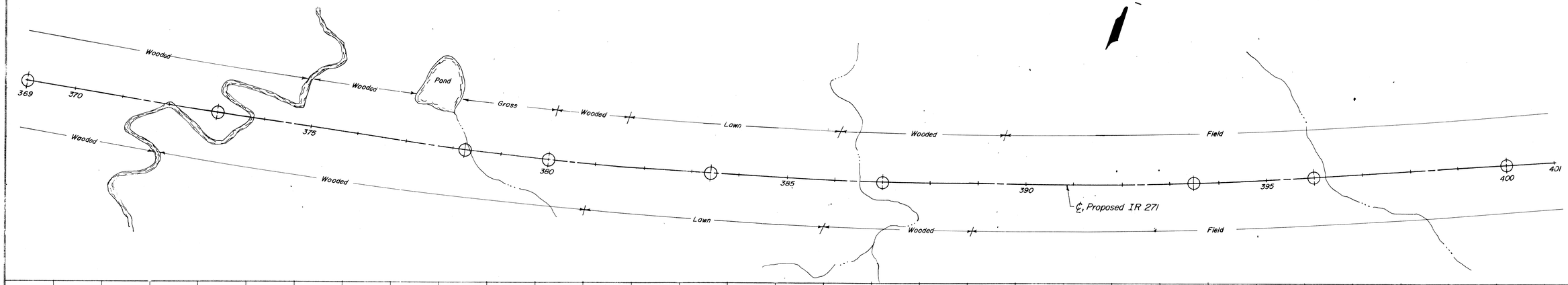
C. **Shale**, gray, arenaceous and argillaceous, poorly fissile, medium-firm, with many fine-grained sandstone seams; with slightly broken, jointed and weathered intervals. Core loss 1%.

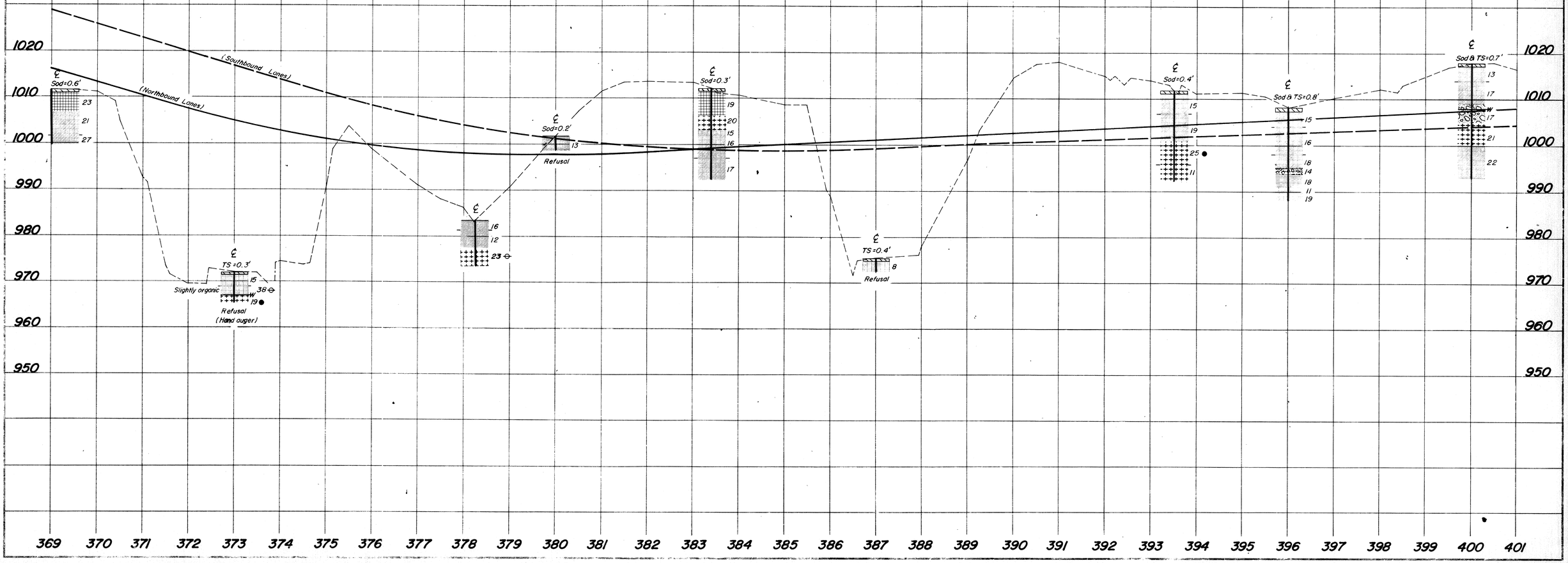
D. Sandstone, gray, fine-grained, firm. No core loss.

SOIL PROFILE
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OHIO STATE HIGHWAY TESTING LABORATORY
1620 W BROAD ST COLUMBUS 23 OHIO

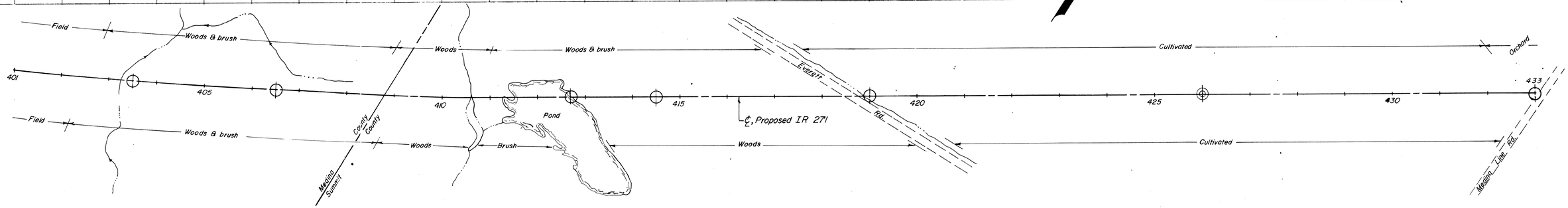


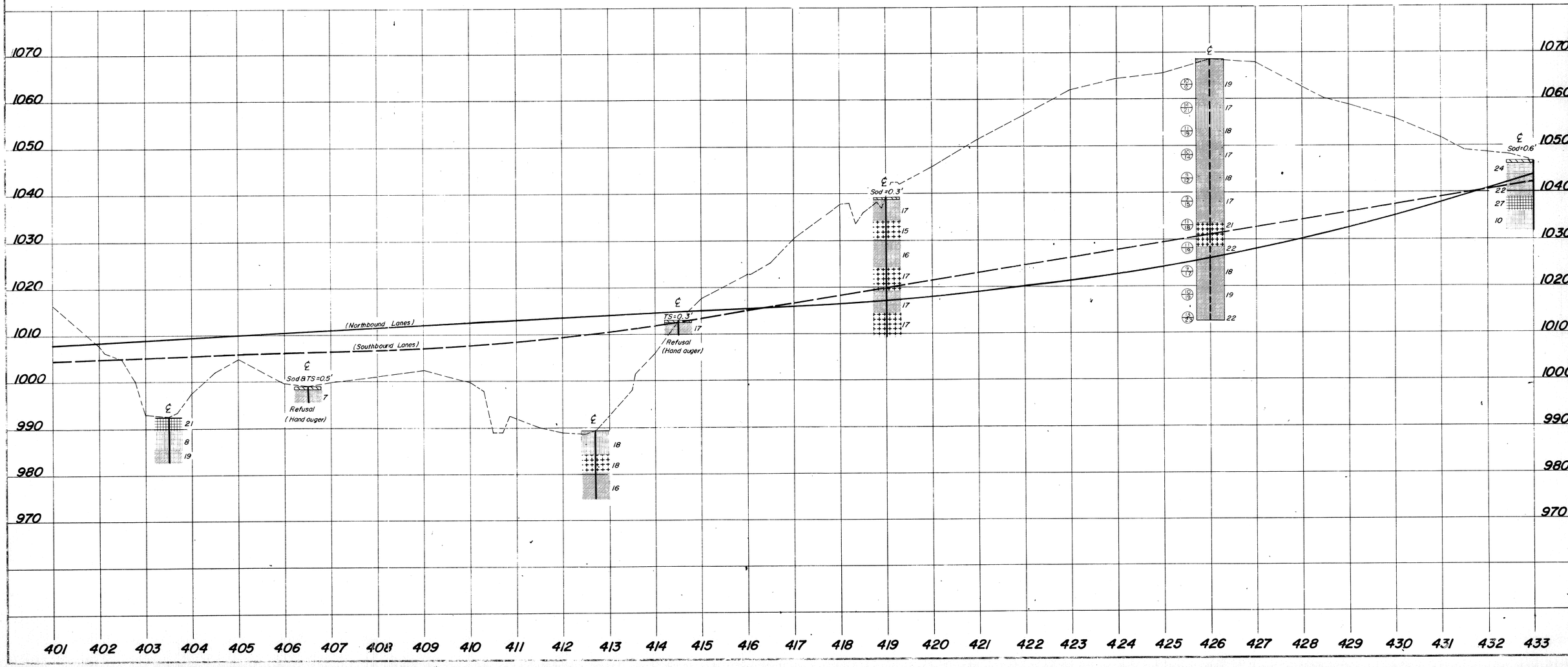


SOIL PROFILE
MEDINA-SUMMIT COS.
MED-271-4.53
SUM-271-0.00

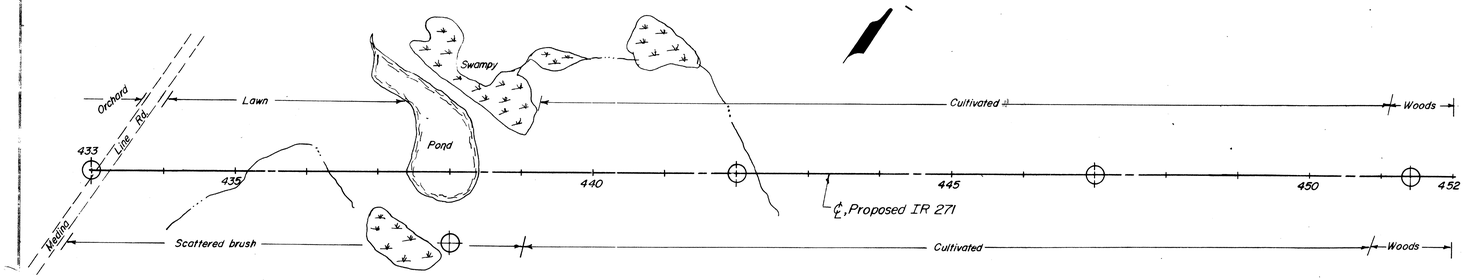
OHIO STATE HIGHWAY TESTING LABORATORY
1620 W BROAD ST COLUMBUS 23, OHIO

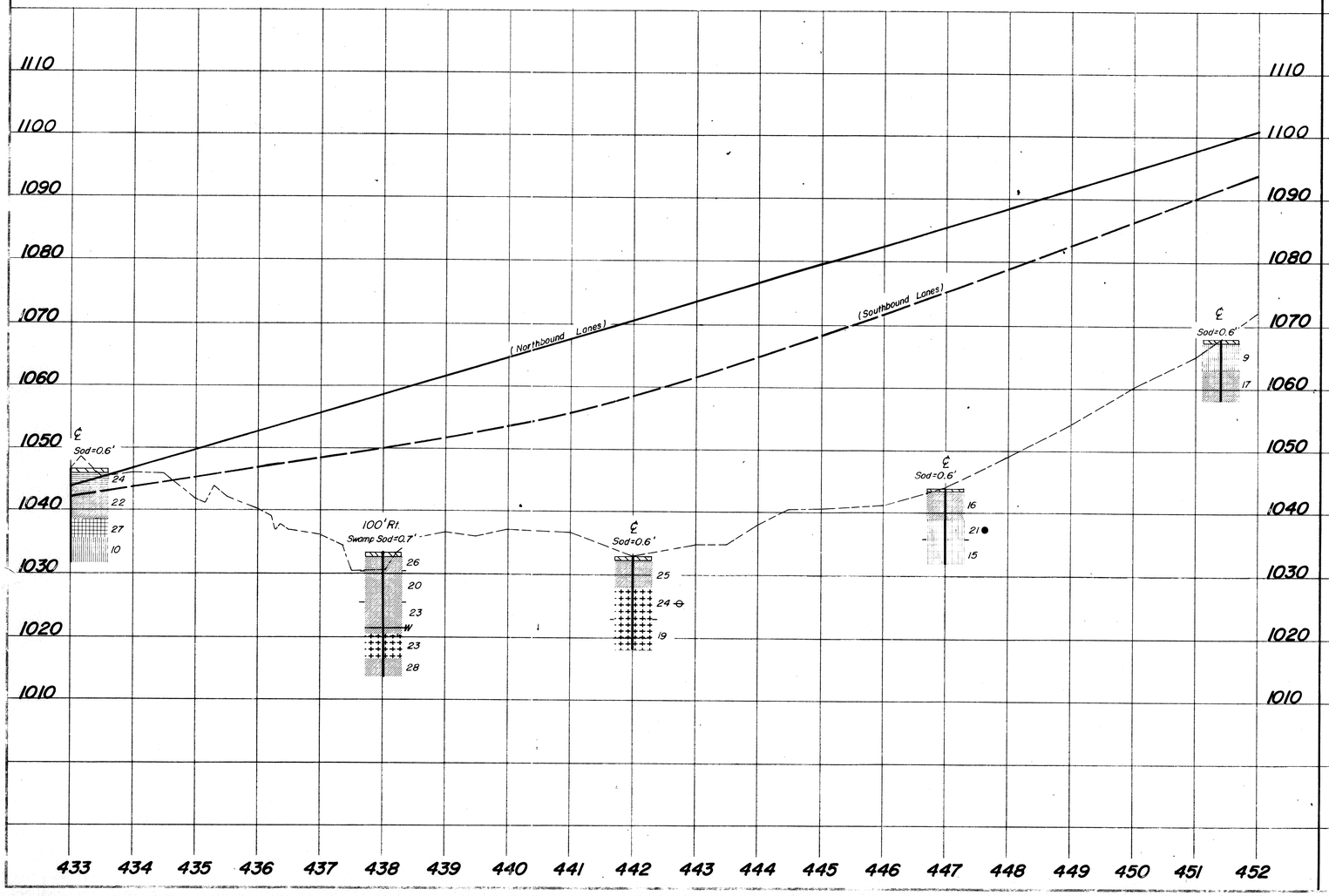
7/19





SOIL PROFILE
MEDINA-SUMMIT COS.
MED-271-4.53
SUM-271-0.00
8
19
OHIO STATE HIGHWAY TESTING LABORATORIES
1600 W. BROAD ST. COLUMBUS 23, OHIO





GEOLOGY OF THE SITE

The structure site is located in the dissected portion of the glaciated Allegheny Plateau, in an area where moderately deep alluvium overlies bedrock, of Pennsylvanian and Mississippian ages.

EXPLORATION

The exploration consisted of two drive sample borings and five drive rod penetration tests, made between October 19 and 28, 1964.

INVESTIGATIONAL FINDINGS

Borings encountered very dense to extremely dense gravels, sands, and silts. The borings were terminated at 86 and 91-foot depths, elevations 956 and 932 feet, after penetrating material requiring in excess of 30 blows per foot in the standard penetration test.

Rod soundings met gradual increase in penetration resistance with increase in depth and were terminated because of high resistance and refusal to penetration between 23 and 42-foot depths, elevations 1024 and 980 feet, considered to be in dense intervals of gravels, sands, and silts, as revealed by the borings.

No free water was observed in any of the rod sounding holes.

No test penetrated to bedrock surface.

LEGEND

- Auger Boring Location - Plan View.
- Press and/or Drive Sample and/or Core Boring Location - Plan View.
- Drive Rod Penetration Resistance Sounding Location - Plan View.
- Capped Pile
- Footing
- Footing on Pile
- TR — Top of Rock

- Horizontal Bar on Boring Log Indicates the Depth the Sample Was Taken.
- X/Y — Figures Beside the Boring Log in Profile Indicate the Number of Blows For Standard Penetration Test.
  X = Number of Blows for First 6 Inches.
  Y = Number of Blows for Second 6 Inches.
- Drive Rod Penetration Resistance Sounding Log - Profile.
- Casing
- Resistance "R" < 10,000 lbs.
- Resistance "R" > 10,000 lbs.
- Z — Indicates Final Measurement of Penetration, in Inches.
- W — Indicates Free Water Elevation.
- ▼ — Indicates Static Water Elevation.

SYMBOLS OF ROCK TYPES

- Coal
- Weathered Indurated Clay
- Indurated Clay
- Weathered Shale
- Shale
- Weathered Sandstone
- Sandstone
- Leached Dolomite
- Dolomite
- Leached Limestone
- Limestone

GENERAL INFORMATION

Drive Rod Penetration Sounding Tests

Drive rod penetration resistance tests constitute driving a 1.315-inch diameter steel rod, with a 45° cone point, into the ground, using a 122-pound drop-hammer with a free fall of five-feet. At one or two-foot depth intervals, a measurement is taken to determine the amount of penetration achieved in three hammer drops. This reading is converted to an empirical value for capacity "R", in thousands of pounds (which is a measure of both the point resistance and frictional resistance on the rod), by using charts prepared by the Ohio Department of Highways, Bureau of Bridges, on the basis of correlation study of rod penetration with past performance of pile driving. For interpretation, a graph is prepared by plotting the value "R" against the depth at which the reading was taken, and connecting the plotted points. The curve so obtained reflects the density of subsurface materials in a manner that can be readily compared with data from similar tests at other locations on the structure site. From this comparison, the overall uniformity of subsurface condition may be evaluated.

Drive Sample Borings – Drive-Press Sample Borings

Drive sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. sampler, at 2-1/2 and/or 5-foot depth intervals, driven by means of a 140-pound drop-hammer, with a free fall of 30 inches. The number of blows required to drive the sampler 12 inches is considered the standard penetration test.

Drive-press sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. drive sampler, and 3" O.D. thin-wall press sampler. The press sampler is advanced by continuous uniform pressure, applied by the drill rig.

The boring log sheets show a graphic plot of the information obtained, including depth and elevation of the sample, number of blows for the standard penetration tests in two 6-inch increments, depth of press samples, field sample number, sample description - based on laboratory tests and the Casagrande AC classification system - and gradation, plasticity, and moisture content determinations. Results of strength and consolidation testing, if performed, appear on separate enclosures.

At depths where materials are bouldery or gravelly to the extent that the sampler can not be driven, a wash sample is procured for visual classification, in order to determine the general character of the material. These samples are not considered sufficiently representative to warrant laboratory testing.

Particle Size Definitions

Boulders	Cobbles	Gravel	Coarse Sand	Fine Sand	Silt	Clay
8"	3"	2.0mm	0.42mm	0.074mm	0.005mm	
		No. 10 sieve	No. 40 sieve	No. 200 sieve		

NOTE: Information shown by this subsurface investigation was obtained solely for the use in establishing design controls for the project. The State of Ohio does not guarantee the accuracy of this data and it is not to be construed as a part of the plans governing construction of the project.

OHIO STATE HIGHWAY
TESTING LABORATORY
1620 WEST BROAD STREET, COLUMBUS 23, OHIO

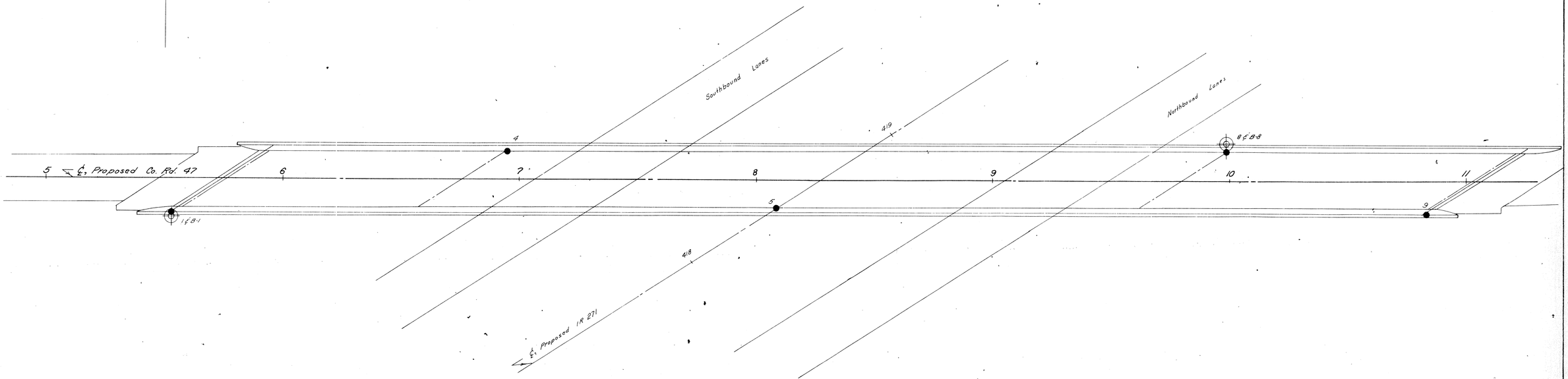
STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. SUM-IR 271-0019
IR 271 UNDER CO. RD. 47
SEC. MED-SUM-IR 271-(4.53)(0.00)

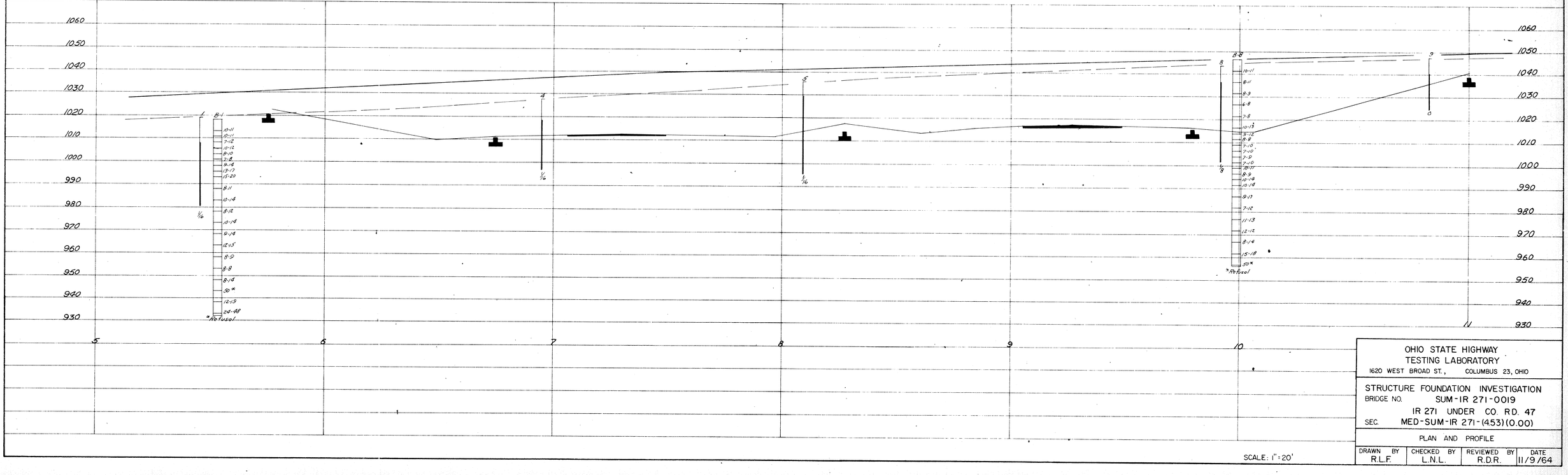
CHECKED BY	REVIEWED BY	DATE
L.N.L.	R.D.R.	11/9/64

MED-SUM-IR 271-(4.53)(0.00)

10/19

2/4





SCALE: 1" = 20'

OHIO STATE HIGHWAY
TESTING LABORATORY
1620 WEST BROAD ST., COLUMBUS 23, OHIO

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. SUM-IR 271-0019
IR 271 UNDER CO. RD. 47
SEC. MED-SUM-IR 271-(4.53)(0.00)

PLAN AND PROFILE

DRAWN BY	CHECKED BY	REVIEWED BY	DATE
R.L.F.	L.N.L.	R.D.R.	11/9/64

LOG OF BORING

Date Started 10-21-64 Sampler Type 1# Dia. 1 3/8"
Date Completed 10-21-64 Casing: Length 40' Dia. 3 1/2"
Boring No. B-1 Station & Offset 1+53, 16' Rt (REAR ABUTMENT)
Water Elev. ____ Surface Elev. 1018.4'

Elev.	Depth	Std. Pen. (N)	Rec. ft.	Loss ft.	Description	Sample No.	Physical Characteristics % Agg	% C.S.	% F.S.	% Silt	% Clay	L.L.	Pl.	W. C.	SHTL Class.
1018.4	0														
	2														
1013.4	4														
	6	10/11			Brown and Gray Gravelly Silt	1	23	2	6	27	42	27	7	18	
1010.9	8	10/11			Brown Silty Sandy Gravel	2	43	9	11	15	22	27	8	13	
1008.4	10	7/12			Brown Sandy Gravelly Silt	3	20	6	11	22	41	30	9	21	
1005.9	12	10/12			Brown Sandy Gravelly Silt	4	35	5	14	29	17	21	5	14	
1003.4	14														
	16	8/10			Brown and Gray Silt and Clay	5	0	1	3	42	54	32	12	27	
1000.9	18	7/8			Gray Clayey Silt	6	0	3	6	43	48	28	10	21	
998.4	20	9/14			Gray and Brown Sandy Gravelly Silt	7	33	7	13	23	24	24	5	14	
995.9	22	13/17			Gray Silty Sandy Gravel	8	43	17	14	15	11	20	4	12	
993.4	24														
	26	15/20			Gray Sandy Silt	9	0	2	25	45	28	20	3	19	
988.4	28														
	30	8/11			Gray Clayey Silt	10	0	1	2	52	45	28	7	25	
983.4	32														
	34														
	36	10/14			Gray Clayey Silt	11	0	1	4	42	53	30	10	21	
978.4	38														
	40														
	42	8/12			Gray Clayey Silt	12	0	3	6	35	56	30	8	19	
973.4	44														
	46	10/14			Gray Clayey Silt	13	0	2	5	33	60	31	9	24	
968.4	48														
	50	9/14			Gray Silt and Clay	14	0	2	5	40	53	34	11	22	
963.4	52														
	54														
	56	12/15			Brown and Gray Clayey Silt	15	0	0	0	44	56	32	7	25	
958.4	58														
	60	8/9			Gray Silt	16	0	1	2	54	43	NP	NP	26	
953.4	62														
	64														
	66	8/8			Gray Gravelly Silt	17	25	5	7	40	23	23	4	20	
948.4	68														
	70	8/14			Gray Sandy Gravelly Silt	18	32	9	9	29	21	21	4	14	
943.4	72														
	74														
	76	50* (0.7')			Gray Silt	19	0	0	5	82	13	NP	NP	21	
938.4	78														
	80														
	82	12/19			Gray Silty Gravelly Sand	20	17	18	42	13	10	NP	NP	13	
933.4	84				*REFUSAL										
932.4		24/48			Gray Silty Sand BOTTOM OF BORING	21	7	4	66	15	8	NP	NP	18	

LOG OF BORING

Date Started 10-26-64 Sampler Type 2" Dia. 1 3/8"
Date Completed 10-26-64 Casing: Length ____ Dia. ____
Boring No. B-2 Station & Offset 9+99, 16' Rt (FORWARD PIER)
Water Elev. ____ Surface Elev. 1046.8'

Elev.	Depth	Std. Pen. (N)	Rec. ft.	Loss ft.	Description	Sample No.	Physical Characteristics % Agg	% C.S.	% F.S.	% Silt	% Clay	L.L.	Pl.	W. C.	SHTL Class.
1046.8	0														
	2														
1041.8	4														
	6	10/11			Brown and Gray Gravelly Silt	1	14	2	5	38	41	31	10	21	
1036.8	8														
	10	8/11			Brown and Gray Clayey Silt	2	8	2	4	39	47	30	9	24	
1031.8	12														
	14														
	16	8/9			Brown and Gray Clayey Silt	3	10	3	6	39	42	29	10	19	
1026.8	18														
	20	6/8			Gray Silt and Clay	4	13	2	3	32	50	31	11	19	
1021.8	22														
	24														
	26	7/8			Gray Clayey Silt	5	0	3	7	43	47	29	10	19	
1016.8	28														
	30	10/13			Gray Clayey Silt	6	0	4	8	44	44	28	10	20	
1014.3	32	9/12			Gray Clayey Silt	7	13	2	5	41	39	29	9	19	
1011.8	34														
	36	8/8			Gray Gravelly Silt	8	17	4	7	45	27	23	5	19	
1009.3	38	7/10			Gray Gravelly Silt	9	14	2	5	39	40	29	8	19	
1006.8	40	7/10			Gray Sandy Silt	10	11	4	7	39	39	29	8	17	
1004.3	42														
	44	7/9			Gray Silt	11	0	2	5	48	45	27	6	22	
1001.8	46	7/10			Gray Silt	12	0	1	2	52	45	28	5	18	
999.3	48	10/11			Gray Clayey Silt	13	0	3	4	40	53	32	9	21	
996.8	50	8/9			Gray Clayey Silt	14	9	3	4	32	52	32	9	19	
994.3	52														
	54	10/14			Gray Gravelly Sandy Clay	15	V	I	S	U	A	L	34	13	20
991.8	56	10/14			Gray Gravelly Sandy Silt	16	21	24	6	22	27	29	9	21	
	58														
986.8	60	9/17			Gray Sandy Clay	17	0	21	7	26	46	PL=	21	21	
	62														
	64														
981.8	66	7/12			Gray Clayey Silt	18	0	2	3	40	55	32	8	32	
	68														
976.8	70	11/13			Gray and Brown Clayey Silt	19	0	1	3	48	48	31	8	26	
	72														
	74														
971.8	76	12/12			Gray Silt	20	0	3	10	58	29	20	2	20	
	78														
966.8	80	8/14			Gray Sandy Gravelly Silt	21	27	11	11	26	25	PL=	16	11	
	82														
961.8	84														
	86	15/18			Gray Sandy Silt	22	0	1	31	44	24	NP	NP	22	
	88														
956.8	90	50* (0.7')			Gray Silty Gravelly Sand BOTTOM OF BORING	23	16	34	33	8	9	NP	NP	20	
956.1					*REFUSAL										

OHIO STATE HIGHWAY
TESTING LABORATORY
1620 WEST BROAD ST. COLUMBUS 23, OHIO

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. SUM-IR 271-0019
IR 271 UNDER CO. RD 47
SEC. MEC - SUM-IR 271-(4.57) (0.00)

BORING DATA

TYPED BY	CHECKED BY	REVIEWED BY	DATE
J.A.G	R.C.	R.D.R	11/9/64

TE-114
1000-1-64

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

1052 1050 1046 1042 1038 1034 1030 1026 1022 1018 1014 1010 1006 1002 998 994 990 986 982 978

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. 1
Station & Offset 5+53.14' RT
REAR ABUTMENT
Surface Elev. 1012.4' Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

TEST ROD

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. 4
Station & Offset 6+95.12' LT
REAR PIER
Surface Elev. 1027.8' Water Elev. DRY-Hole Closed at El. 1005.8'
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition GOOD

1042 1038 1034 1030 1026 1022 1018 1010 1006 1002 998 994 990 986 982 978

TEST ROD

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. 5
Station & Offset 8+09.12' RT
CENTER PIER
Surface Elev. 1035.8' Water Elev. DRY-Hole Closed at El. 1023.8'
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition POINT BENT-8'

TEST ROD

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. 8
Station & Offset 9+99.12' LT
FORWARD PIER
Surface Elev. 1043.9' Water Elev. DRY-Hole Closed at El. 1033.9'
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition GOOD

TEST ROD

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. 9
Station & Offset 10+83.14' RT
FORWARD ABUTMENT
Surface Elev. 1047.2 Water Elev. DRY-Hole, closed at El. 1037.2'
MED-IR 271-4.53
SUM-IR 271-0.00
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition GOOD

12
19
4
4

1046 1042 1038 1034 1030 1026 1022 1018 1014 1010 1006 1002 998 994 990 986 982 978

TEST ROD

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

OHIO STATE HIGHWAY
TESTING LABORATORY
1620 WEST BROAD ST. COLUMBUS 23, OHIO

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. SUM-IR 271-0019
IR 271 UNDER CO. RD. 47
SEC. MED-SUM-IR 271-(4.53)(0.00)

DRIVE ROD PENETRATION RESISTANCE DATA

PLOTTED BY	CHECKED BY	REVIEWED BY	DATE
R.C.	L.N.L.	R.D.R.	11/9/64

GEOLOGY OF THE SITE

The structure site is located in the dissected portion of the glaciated Allegheny Plateau, in an area where moderately deep alluvium overlies bedrock, of Pennsylvanian and Mississippian ages.

EXPLORATION

The exploration consisted of two drive sample-core borings and ten drive rod penetration tests, made between October 6 and 23, 1964.

INVESTIGATIONAL FINDINGS

Borings disclosed that very dense to extremely dense gravelly sandy silts overlie sloping bedrock surface, encountered at 10-foot depth, elevation 1123 feet in the forward portion of the structure site, and 15-foot depth, elevation 1118 feet in the rear portion of the structure site. The borings were terminated at 30 and 40-foot depths, elevation 1107 feet, after penetrating 20 and 25 feet below bedrock surface.

Rod soundings met rapid increase in penetration resistance with increase in depth and were terminated because of high resistance and refusal to penetration between 7 and 16-foot depths, elevations 1130 and 1124 feet, considered to be slightly above bedrock surface, as revealed by the borings.

No free water was observed in any of the rod sounding holes.

If it is the intention to found the abutments on bedrock, it is considered advisable that the open excavation be inspected in the field in order to insure that the excavations have been extended to rock throughout the entire founding area.

Unconfined compression tests on similar weathered sandstone bedrock indicates a crushing strength on the order of 150 tons per square foot.

LEGEND

- Auger Boring Location - Plan View.
- Press and/or Drive Sample and/or Core Boring Location - Plan View.
- Drive Rod Penetration Resistance Sounding Location - Plan View.
- Capped Pile
- Footing
- Footing on Pile
- TR — Top of Rock
- Horizontal Bar on Boring Log Indicates the Depth the Sample Was Taken.
- X/Y — Figures Beside the Boring Log in Profile Indicate the Number of Blows For Standard Penetration Test.
  X = Number of Blows for First 6 Inches.
  Y = Number of Blows for Second 6 Inches.
- Drive Rod Penetration Resistance Sounding Log - Profile.
- Casing
- Resistance "R" < 10,000 lbs.
- Resistance "R" > 10,000 lbs.
- Z — Indicates Final Measurement of Penetration, in Inches.
- W — Indicates Free Water Elevation.
- Indicates Static Water Elevation.

SYMBOLS OF ROCK TYPES

- Coal
- Weathered Indurated Clay
- Indurated Clay
- Weathered Shale
- Shale
- Weathered Sandstone
- Sandstone
- Leached Dolomite
- Dolomite
- Leached Limestone
- Limestone

GENERAL INFORMATION

Drive Rod Penetration Sounding Tests

Drive rod penetration resistance tests constitute driving a 1.315-inch diameter steel rod, with a 45° cone point, into the ground, using a 122-pound drop-hammer with a free fall of five feet. At one or two-foot depth intervals, a measurement is taken to determine the amount of penetration achieved in three hammer drops. This reading is converted to an empirical value for capacity "R", in thousands of pounds (which is a measure of both the point resistance and frictional resistance on the rod), by using charts prepared by the Ohio Department of Highways, Bureau of Bridges, on the basis of correlation study of rod penetration with past performance of pile driving. For interpretation, a graph is prepared by plotting the value "R" against the depth at which the reading was taken, and connecting the plotted points. The curve so obtained reflects the density of subsurface materials in a manner that can be readily compared with data from similar tests at other locations on the structure site. From this comparison, the overall uniformity of subsurface condition may be evaluated.

Drive Sample Borings - Drive-Press Sample Borings

Drive sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. sampler, at 2-1/2 and/or 5-foot depth intervals, driven by means of a 140-pound drop-hammer, with a free fall of 30 inches. The number of blows required to drive the sampler 12 inches is considered the standard penetration test.

Drive-press sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. drive sampler, and 3" O.D. thin-wall press sampler. The press sampler is advanced by continuous uniform pressure, applied by the drill rig.

The boring log sheets show a graphic plot of the information obtained, including depth and elevation of the sample, number of blows for the standard penetration tests in two 6-inch increments, depth of press samples, field sample number, sample description - based on laboratory tests and the Casagrande AC classification system - and gradation, plasticity, and moisture content determinations. Results of strength and consolidation testing, if performed, appear on separate enclosures.

At depths where materials are bouldery or gravelly to the extent that the sampler can not be driven, a wash sample is procured for visual classification, in order to determine the general character of the material. These samples are not considered sufficiently representative to warrant laboratory testing.

Particle Size Definitions

Boulders	Cobbles	Gravel	Coarse Sand	Fine Sand	Silt	Clay
8"	3"	2.0mm	0.42mm	0.074mm	0.005mm	
		No. 10 sieve	No. 40 sieve	No. 200 sieve		

LOG OF BORING

Date Started 10-21-64 — Sampler Type SS — Dia 1 3/8" — Water Elev. —
Date Completed 10-21-64 — Casing Length 10' — Dia 3 1/2" — Surface Elev. 1132.7'
Boring No. B-1 — Station & Offset 48+62, 14' Lt (REAR ABUTMENT)

Elev.	Depth	Std. Pen. (N)	Rec. ft.	Loss ft.	Description	Sample No.	Physical Characteristics % Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHT. Class
1132.7	0														
	2														
1127.7	4														
	6	14/23			Brown and Gray Silt with Stone Fragments	1	19	4	10	37	30	29	10	16	
	8														
1123.2	10				TOP OF ROCK										
	12		5.2	0.3											
	14														
	16				Sandstone, brown, fine-grained, firm, slightly friable and weathered, with few scattered 0.5" quartz pebbles through-out. Core loss 1%.											
	18		5.0	0.0											
	20														
	22		5.0	0.0											
	24														
	26														
	28		5.0	0.0											
1102.7	30				BOTTOM OF BORING										

LOG OF BORING

Date Started 10-22-64 — Sampler Type SS — Dia 1 3/8" — Water Elev 1117.7'
Date Completed 10-23-64 — Casing Length 15' — Dia 3 1/2" — Surface Elev. 1142.7'
Boring No. B-8 — Station & Offset 50+82, 14' Rt (FORWARD PIER)

Elev.	Depth	Std. Pen. (N)	Rec. ft.	Loss ft.	Description	Sample No.	Physical Characteristics % Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHT. Class
1142.7	0														
	2														
1137.7	4														
	6	9/10			Brown and Gray Sandy Gravelly Silt	1	22	6	12	30	30	25	7	16	
	8														
1132.7	10														
	12	10/23			Brown Sandy Silt with Stone Fragments	2	36	5	11	30	18	21	4	15	
	14														
1127.7	16				TOP OF ROCK										
	18		5.0	0.0											
	20														
	22		5.0	0.0	Sandstone, brown, fine-grained, slightly friable and weathered, firm, with 0.5" quartz pebbles through-out. No core loss.										
	24														
	26														
	28		5.0	0.0											
	30														
	32		5.0	0.0											
	34														
	36														
	38		5.0	0.0											
1102.7	40				BOTTOM OF BORING										

NOTE: Information shown by this subsurface investigation was obtained solely for the use in establishing design controls for the project. The State of Ohio does not guarantee the accuracy of this data and it is not to be construed as a part of the plans governing construction of the project.

OHIO STATE HIGHWAY
TESTING LABORATORY
1620 WEST BROAD STREET, COLUMBUS 23, OHIO

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. MED-IR 271-0579
UNDER CO. RD. 44
SEC. MED-SUM-IR 271-(4.53)(0.00)

CHECKED BY	REVIEWED BY	DATE
L.N.L.	R.D.R.	11/3/64

TC-115
SOO-1-64

15
19
3
3

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

Test Location No. 1
Station & Offset 48+62, 12' LT REAR ABUTMENT
Surface Elev. 1132.4' Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition GOOD

Test Location No. 2
Station & Offset 48+62, 12' RT REAR ABUTMENT
Surface Elev. 1132.7' Water Elev. DRY
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition GOOD

Test Location No. 3
Station & Offset 49+19, 12' LT REAR PIER
Surface Elev. 1135.8' Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition GOOD

Test Location No. 4
Station & Offset 49+19, 12' RT REAR PIER
Surface Elev. 1135.0' Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition GOOD

Test Location No. 5
Station & Offset 50+00, 12' LT CENTER PIER
Surface Elev. 1139.5' Water Elev. ____
MED-IR 271-4.53
SUM-IR 271-0.00
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition GOOD

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

Test Location No. 6
Station & Offset 50+00, 12' RT CENTER PIER
Surface Elev. 1139.6' Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition GOOD

Test Location No. 7
Station & Offset 50+82, 12' LT FORWARD PIER
Surface Elev. 1142.9' Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition GOOD

Test Location No. 8
Station & Offset 50+82, 12' RT FORWARD PIER
Surface Elev. 1142.9' Water Elev. DRY
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition GOOD

Test Location No. 9
Station & Offset 51+40, 12' LT FORWARD ABUTMENT
Surface Elev. 1145.6' Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition POINT ROD BENT

Test Location No. 10
Station & Offset 51+40, 12' RT FORWARD ABUTMENT
Surface Elev. 1145.7' Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition GOOD

1150 1146 1142 1138 1134 1130 1126 1122

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

TEST ROD

OHIO STATE HIGHWAY TESTING LABORATORY
1620 WEST BROAD ST. COLUMBUS 23, OHIO

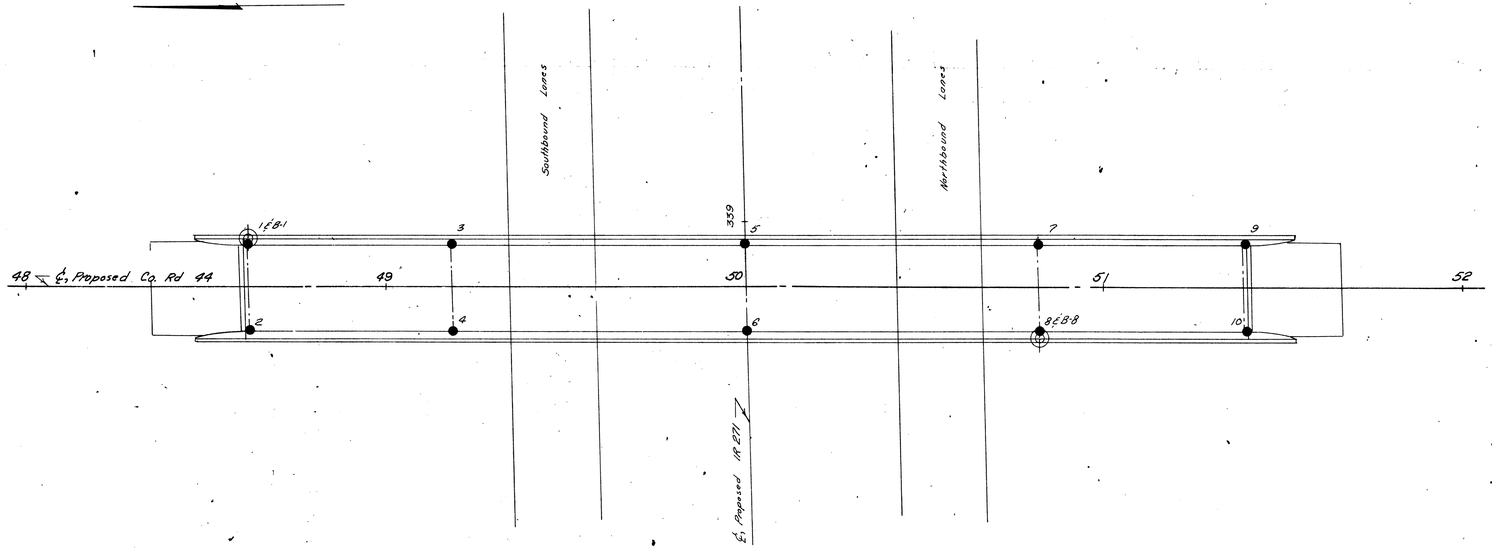
STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. MED-IR271-0579
UNDER CO. RD. 44
SEC. MED-SUM-IR271-(4.53)(0.00)

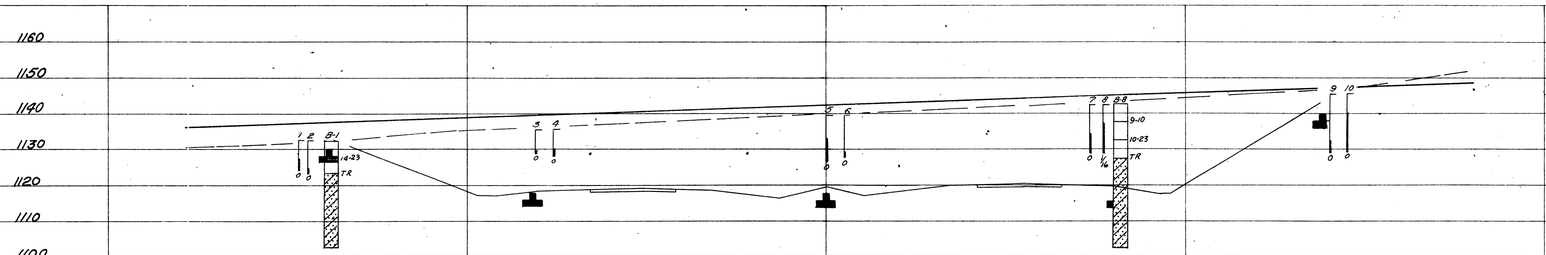
DRIVE ROD PENETRATION RESISTANCE DATA

PLOTTED BY	CHECKED BY	REVIEWED BY	DATE
R.C.	L.N.L.	R.D.R.	11/3/64

MED-SUM-IR 271-(4.53)(0.00)

14
19
2
3





SCALE: 1"=20'

OHIO STATE HIGHWAY
TESTING LABORATORY
1620 WEST BROAD ST., COLUMBUS 23, OHIO

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. MED-IR 271-0579
UNDER CO. RD. 44
SEC. MED-SUM-IR 271-(4.53)(0.00)

PLAN AND PROFILE

DRAWN BY	CHECKED BY	REVIEWED BY	DATE
R.L.F.	L.N.L.	R.D.R.	11/3/64

GEOLOGY OF THE SITE

The structure site is located in the dissected portion of the glaciated Allegheny Plateau, in an area where moderately deep glacial-derived soils overlie bedrock, of Pennsylvanian and Mississippian ages.

EXPLORATION

The exploration consisted of two drive sample borings and five drive rod penetration tests, made between October 21 and November 2, 1964.

INVESTIGATIONAL FINDINGS

Borings encountered very dense to extremely dense gravels, sands, and silts: The borings were terminated at 56 and 61-foot depths, elevations 989 and 985 feet, after penetrating material requiring in excess of 30 blows per foot in the standard penetration test.

Rod soundings met gradual increase in penetration resistance with increase in depth and were terminated because of high resistance and refusal to penetration between 30 and 32-foot depths, elevations 1015 and 1013 feet, considered to be in very dense intervals of gravels, sands, and silts, as revealed by the borings.

Free water was observed in the majority of the rod sounding holes, between elevations 1031 and 1025 feet.

No test penetrated to bedrock surface.

LEGEND

- Auger Boring Location - Plan View.
- Press and/or Drive Sample and/or Core Boring Location - Plan View.
- Drive Rod Penetration Resistance Sounding Location - Plan View.
- Capped Pile
- Footing
- Footing on Pile
- TR — Top of Rock
- Horizontal Bar on Boring Log Indicates the Depth the Sample Was Taken.
- X/Y — Figures Beside the Boring Log in Profile Indicate the Number of Blows For Standard Penetration Test.
  X = Number of Blows for First 6 Inches.
  Y = Number of Blows for Second 6 Inches.
- Drive Rod Penetration Resistance Sounding Log - Profile.
- Casing
- Resistance "R" < 10,000 lbs.
- Resistance "R" > 10,000 lbs.
- Z — Indicates Final Measurement of Penetration, in Inches.
- W — Indicates Free Water Elevation.
- Indicates Static Water Elevation.

SYMBOLS OF ROCK TYPES

- Coal
- Weathered Indurated Clay
- Indurated Clay
- Weathered Shale
- Shale
- Weathered Sandstone
- Sandstone
- Leached Dolomite
- Dolomite
- Leached Limestone
- Limestone

GENERAL INFORMATION

Drive Rod Penetration Sounding Tests

Drive rod penetration resistance tests constitute driving a 1.315-inch diameter steel rod, with a 45° cone point, into the ground, using a 122-pound drop-hammer with a free fall of five feet. At one or two-foot depth intervals, a measurement is taken to determine the amount of penetration achieved in three hammer drops. This reading is converted to an empirical value for capacity "R", in thousands of pounds (which is a measure of both the point resistance and frictional resistance on the rod), by using charts prepared by the Ohio Department of Highways, Bureau of Bridges, on the basis of correlation study of rod penetration with past performance of pile driving. For interpretation, a graph is prepared by plotting the value "R" against the depth at which the reading was taken, and connecting the plotted points. The curve so obtained reflects the density of subsurface materials in a manner that can be readily compared with data from similar tests at other locations on the structure site. From this comparison, the overall uniformity of subsurface condition may be evaluated.

Drive Sample Borings – Drive-Press Sample Borings

Drive sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. sampler, at 2-1/2 and/or 5-foot depth intervals, driven by means of a 140-pound drop-hammer, with a free fall of 30 inches. The number of blows required to drive the sampler 12 inches is considered the standard penetration test.

Drive-press sample borings are made by means of a rotary-type drill rig, employing a 2" O.D., 1-3/8" I.D. drive sampler, and 3" O.D. thin-wall press sampler. The press sampler is advanced by continuous uniform pressure, applied by the drill rig.

The boring log sheets show a graphic plot of the information obtained, including depth and elevation of the sample, number of blows for the standard penetration tests in two 6-inch increments, depth of press samples, field sample number, sample description - based on laboratory tests and the Casagrande AC classification system - and gradation, plasticity, and moisture content determinations. Results of strength and consolidation testing, if performed, appear on separate enclosures.

At depths where materials are bouldery or gravelly to the extent that the sampler can not be driven, a wash sample is procured for visual classification, in order to determine the general character of the material. These samples are not considered sufficiently representative to warrant laboratory testing.

Particle Size Definitions

Boulders	Cobbles	Gravel	Coarse Sand	Fine Sand	Silt	Clay
8"	3"	2.0mm (No. 10 sieve)	0.42mm (No. 40 sieve)		0.074mm (No. 200 sieve)	0.005mm

NOTE: Information shown by this subsurface investigation was obtained solely for the use in establishing design controls for the project. The State of Ohio does not guarantee the accuracy of this data and it is not to be construed as a part of the plans governing construction of the project.

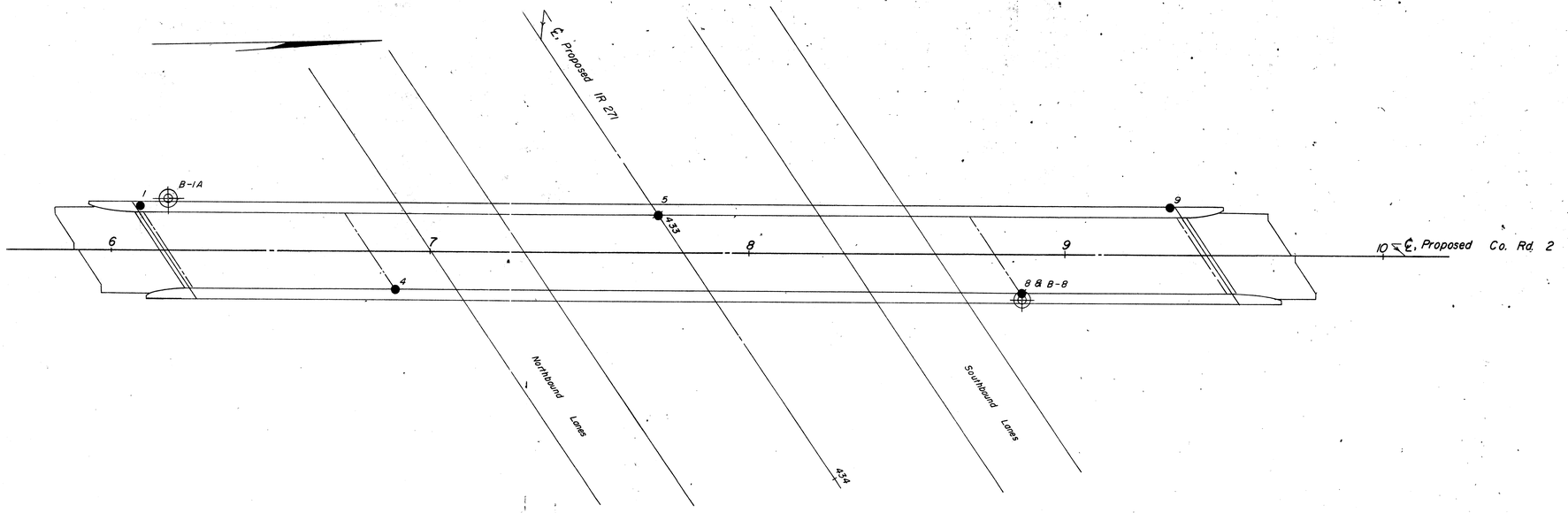
OHIO STATE HIGHWAY
TESTING LABORATORY
1620 WEST BROAD STREET, COLUMBUS 23, OHIO

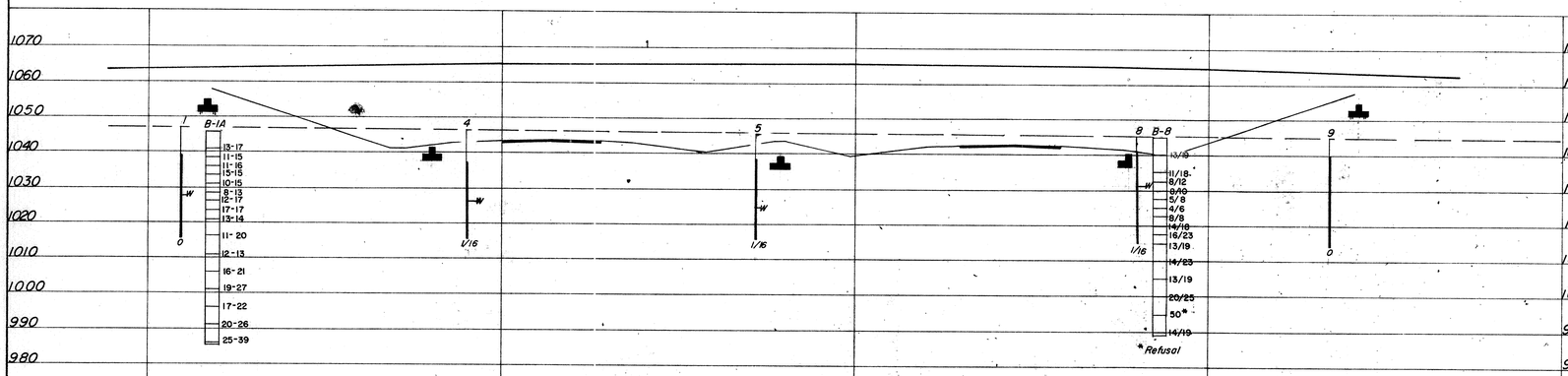
STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. SUM-IR 271-0046
IR 271 UNDER CO. RD. 2
SEC. MED-SUM-IR 271-(4.53)(0.00)

CHECKED BY	REVIEWED BY	DATE
R. H. P.	R. D. R.	11/18/64

MED-SUM-IR 271-(4.53)(0.00)

17/19/24





SCALE: 1"=20'

OHIO STATE HIGHWAY
TESTING LABORATORY
1620 WEST BROAD ST., COLUMBUS 23, OHIO

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. SUM-IR 271-0046
IR 271 UNDER CO. RD. 2
SEC. MED-SUM-IR 271-(4.53)(0.00)

PLAN AND PROFILE

DRAWN BY	CHECKED BY	REVIEWED BY	DATE
R.L.F.	R. H. P.	R. D. R.	11/18/64

LOG OF BORING

Date Started 10-28-64 Sampler Type SS Dia. 1 3/8"
Date Completed 10-29-64 Casing: Length 35' Dia. 3 1/2"
Boring No. B-1 A Station & Offset 6+18, 16' Lt (REAR ABUTMENT)
Water Elev. ——— Surface Elev. 1046.0'

Elev.	Depth	Std. Pen. (N)	Rec. ft.	Loss ft.	Description	Sample No.	Physical Characteristics: % Agg	% C.S.	% F.S.	% Silt	% Clay	L.L.	Pl.	W.C.	SHTL Class.
1046.0	0														
	2														
	4														
1041.0	6	13/17			Brown and Gray Gravelly Silt	1	16	2	5	41	36	32	9	19	
1038.5	8	11/15			Brown and Gray Clayey Silt	2	0	3	6	42	49	30	7	19	
1036.0	10	11/16			Brown Clayey Silt	3	0	2	6	41	51	32	8	18	
1033.5	12	15/15			Brown Silt and Clay	4	0	2	3	33	62	37	12	22	
1031.0	14	10/15			Brown and Gray Silt and Clay	5	0	1	2	32	65	38	12	23	
1028.5	16	8/13			Gray Clayey Silt	6	0	1	2	40	57	33	9	23	
1026.0	18	12/17			Brown Silt and Clay	7	0	1	1	32	66	41	13	24	
1023.5	20	17/17			Brown Silty Gravelly Sand	8	38	20	27	6	9	NP	NP	15	
1021.0	22	13/14			Brown Gravelly Sand	9	23	32	40	4	1	NP	NP	19	
	24														
1016.0	26	11/20			Brown Silty Gravelly Sand	10	37	43	5	1	14	PL	14	15	
	28														
1011.0	30	12/13			Gray Silt	11	0	0	7	77	16	NP	NP	22	
	32														
1006.0	34	16/21			Gray Silt	12	0	3	12	71	14	NP	NP	22	
	36														
1001.0	38	19/27			Gray Silt	13	0	2	6	66	26	22	4	17	
	40														
996.0	42	17/22			Gray Silt	14	0	2	8	57	33	22	5	16	
	44														
991.0	46	20/28			Gray Clayey Silt	15	0	3	7	45	45	25	7	17	
986.0	48				BOTTOM OF BORING										
985.0	50	25/39			Gray Gravelly Silt	16	16	5	8	32	39	26	9	14	

LOG OF BORING

Date Started 10-29-64 Sampler Type SS Dia. 1 3/8"
Date Completed 11-2-64 Casing: Length ——— Dia. ———
Boring No. B-8 Station & Offset 8+86, 14' Rt (FORWARD PIER)
Water Elev. ——— Surface Elev. 1045.0'

Elev.	Depth	Std. Pen. (N)	Rec. ft.	Loss ft.	Description	Sample No.	Physical Characteristics: % Agg	% C.S.	% F.S.	% Silt	% Clay	L.L.	Pl.	W.C.	SHTL Class.
1045.0	0														
	2														
	4														
1040.0	6	13/19			Brown Silt and Clay*	1	0	1	1	29	69	40	15	21	
	8														
1035.0	10	11/18			Brown and Gray Silt and Clay	2	0	1	0	28	71	37	14	24	
1032.5	12	8/12			Gray Silt and Clay	3	0	0	0	31	69	33	11	22	
1030.0	14	8/10			Gray Silt and Clay	4	0	0	0	33	67	35	14	24	
1027.5	16	5/8			Gray Silt and Clay	5	0	0	0	31	69	35	13	27	
1025.0	18	4/6			Gray Silty Clay	6	0	0	0	39	61	36	17	38	
1022.5	20	8/8			Brown and Gray Silt	7	0	0	2	71	27	NP	NP	20	
1020.0	22	14/18			Gray Silt	8	0	0	2	67	31	NP	NP	19	
1017.5	24	16/23			Gray Clayey Silt	9	0	4	10	50	36	23	7	14	
1015.0	26	13/19			Gray Silt	10	0	2	5	62	31	NP	NP	14	
	28														
1010.0	30	14/23			Gray Silt	11	0	2	5	52	41	23	6	18	
	32														
1005.0	34	13/19			Gray Gravelly Silt	12	16	2	5	41	36	24	7	15	
	36														
1000.0	38	20/25			Gray Sandy Silt	13	10	3	8	47	32	23	7	15	
	40														
995.0	42	50* (0.7')			Gray Sandy Silt	14	14	7	9	33	37	26	8	13	
990.0	44														
989.0	46	14/19			Brown Silt	15	0	2	6	62	30	NP	NP	20	
	48				BOTTOM OF BORING										

*REFUSAL

OHIO STATE HIGHWAY
TESTING LABORATORY
1620 WEST BROAD ST. COLUMBUS 23, OHIO

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. SUM-IR 271-0046
IR 271 UNDER CO. RT. 2
SEC. MED-SUM-IR 271-(4.53)(0.00)

BORING DATA

TYPED BY	CHECKED BY	REVIEWED BY	DATE
J.A.G	R.C.	R.D.R.	11/18/64

D-116
3-1-64

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

1052 1048 1044 1040 1036 1032 1028 1024 1020 1016 1012

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. ____
Station & Offset ____
Surface Elev. ____ Water Elev. ____
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. 1
Station & Offset 6+09 14' LT REAR ABUTMENT
Surface Elev. 1047.2' Water Elev. 1028.2'
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

TEST ROD

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. 4
Station & Offset 6+90 12' RT REAR PIER
Surface Elev. 1046.4' Water Elev. 1026.4'
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition ____

1048 1044 1040 1036 1032 1028 1024 1020 1016 1012

TEST ROD

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. 5
Station & Offset 7+72 12' LT CENTER PIER
Surface Elev. 1025.9' Water Elev. 1024.9'
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition GOOD

TEST ROD

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. 8
Station & Offset 8+86 12' RT FORWARD PIER
Surface Elev. 1045.1' Water Elev. 1031.1'
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition GOOD

TEST ROD

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

Test Location No. 9
Station & Offset 9+34 15' LT FORWARD ABUTMENT
Surface Elev. 1046.0' Water Elev DRY HOLE
closed at El 1025.0'
MED-IR 271-4.53
SUM-IR 271-0.00
Piling ____
Hammer ____
Formula ____
Reference ____
Rod Condition GOOD

TEST ROD

1044 1040 1036 1032 1028 1024 1020 1016 1012

10 20 30 40 50 60 70 80 90 100
Capacity "R" in Thousands of Pounds

19
19
4
4

OHIO STATE HIGHWAY TESTING LABORATORY
1620 WEST BROAD ST. COLUMBUS 23, OHIO

STRUCTURE FOUNDATION INVESTIGATION
BRIDGE NO. SUM-IR 271-0046
IR 271 UNDER CO. RD. 2
SEC. MED-SUM-IR 271-(4.53)(0.00)

DRIVE ROD PENETRATION RESISTANCE DATA

PLOTTED BY	CHECKED BY	REVIEWED BY	DATE
R C	R. H. P.	R. D. R.	11/18/64