

DETOUR FOR SR 67 E. OF SR 69 DETOUR FOR SR 67 W. OF SR 69

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
HAR-69-2.36
HAR-67-2.43
HARDIN COUNTY
ROUNDHEAD TOWNSHIP

S-712 (8)
S-122 (2)

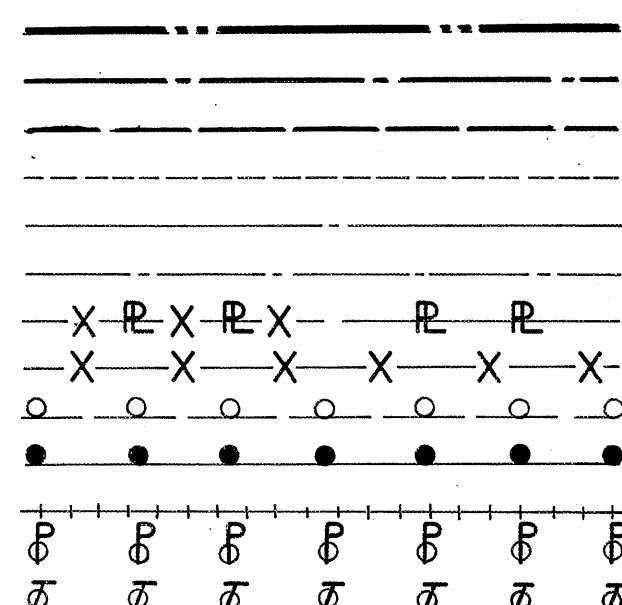
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	S-712 (8) S-122 (2)

HARDIN COUNTY
HAR-69-2.36
HAR-67-2.43

AUG 1 1965
GROUND PHOTOLAB

CONVENTIONAL SIGNS

- STATE LINE
- COUNTY LINE
- TOWNSHIP LINE
- SECTION LINE
- CENTER LINE
- CORPORATION LINE
- PROPERTY LINE
- FENCE LINE
- GUARD RAIL (EXISTING)
- GUARD RAIL (PROPOSED)
- RAILROAD
- POWER POLES
- TELEPHONE POLES



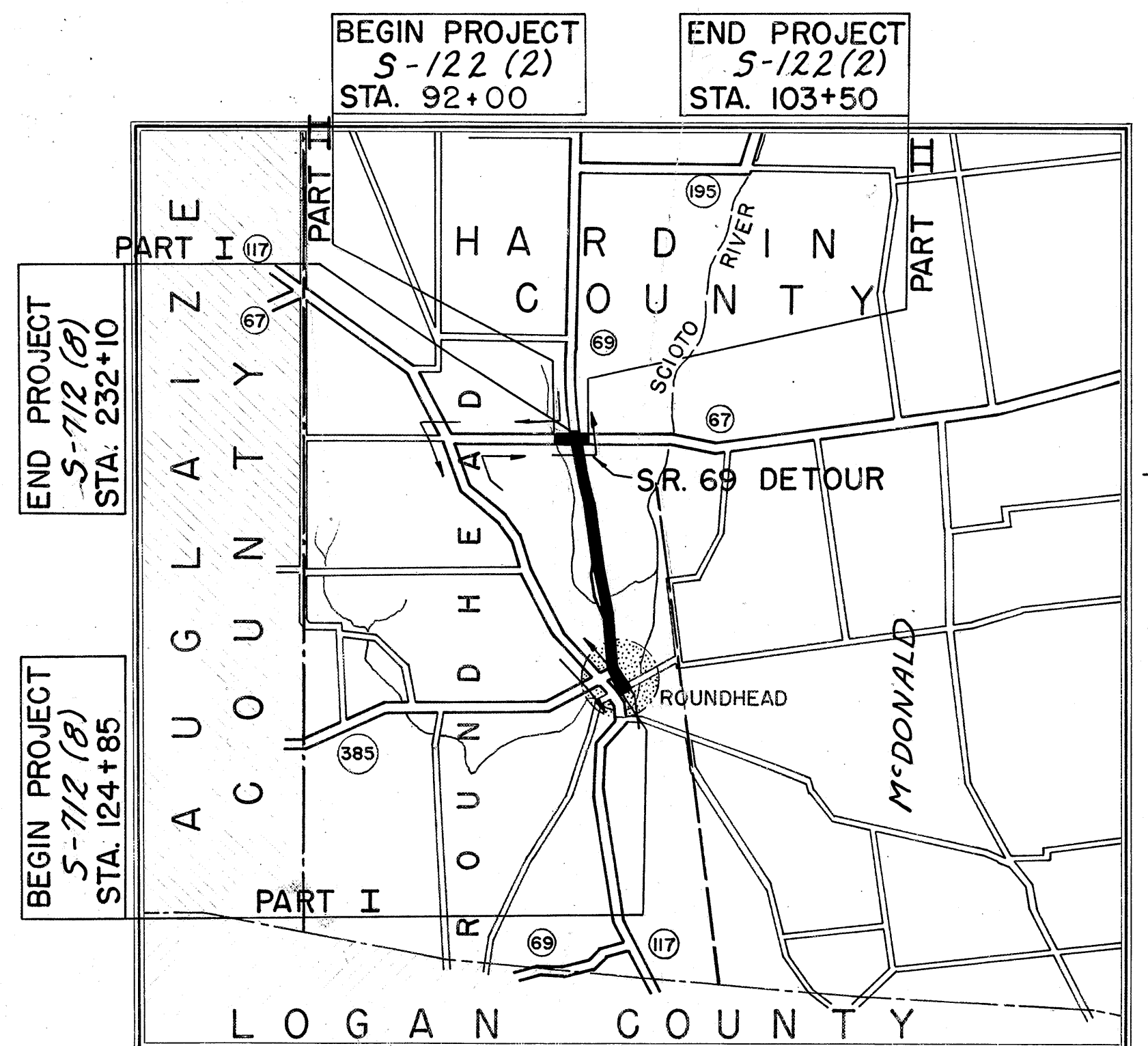
INDEX OF SHEETS

- TITLE SHEET
- TYPICAL SECTIONS
- GENERAL NOTES & SPECIAL DETAILS
- SUMMARY
- PLAN & PROFILE
- CROSS SECTIONS
- INTERSECTIONS
- STRUCTURES 20' SPAN & UNDER
- CHANNEL SECTIONS
- RIGHT OF WAY

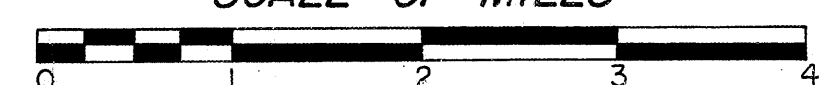
	SR-69 PART I	SR-67 PART II
1	1	1
2	2	2
3	3	3
4	4	4
5-15	44	
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43		
50-54	50,54	

LINE DATA

PART I, SR-69 - S-712 (8)	PART II, SR-67 - S-122 (2)
BEGIN PROJECT STA. 124+85	BEGIN WORK STA. 91+50
END PROJECT STA. 232+10	END WORK STA. 103+50
GROSS LENGTH 10,725 LIN. FT.	GROSS LENGTH 10,807 LIN. FT.
DEDUCT FOR S.R. 67 2244 LIN. FT.	DEDUCT FOR S.R. 67 2244 LIN. FT.
NET LENGTH OF PROJECT = 10,702.56' LIN. FT. OR 2.027 MI.	NET LENGTH OF WORK = 10,784.56' LIN. FT. OR 2.042 MI.
NO ADDITIONS NOR DEDUCTIONS	NO ADDITIONS NOR DEDUCTIONS
NET LENGTH OF PROJECT = 1150' LIN. FT. OR 0.217 MI.	NET LENGTH OF WORK = 1200' LIN. FT. OR 0.227 MI.
S-712 (8) + S-122 (2)	
COMBINED LENGTHS OF PROJECTS = 11,852.56' LIN. FT. OR 2.244 MILES	
COMBINED LENGTHS OF WORK = 11,984.56' LIN. FT. OR 2.269 MILES	



DELIVERY POINT: BELLE CENTER AVERAGE HAUL 9 MILES
BELLE CENTER 8 MILES S.E. OF ROUNDHEAD ON N.Y.C.R.R.
SCALE OF MILES



LOCATION MAP

PORTION TO BE IMPROVED
STATE HIGHWAYS
OTHER ROADS
DETOUR ROUTES

SCALE

PLAN 1 INCH = 20 FEET; 1 INCH = 50 FEET
PROFILE (HORIZONTAL) 1 INCH = 20 FEET; 1 INCH = 50 FEET
PROFILE (VERTICAL) 1 INCH = 5 FEET
CROSS SECTIONS 1 INCH = 5 FEET

STANDARD DRAWINGS

DR-1	1-3-55	L-1	4-1-50	FACI-1	3-8-63
G-707	6-1-56	L-3	4-1-50	FACI-2	3-8-63
I-1	11-15-60	L-3A	4-1-50	SP-53	6-30-61
I-8 CB 1-2A&B	2-1-63	RI-1			
I-8 CB 2-2A&B	2-1-63	T-35			
I-15 NO. 2	11-15-60	I-8 I. NO.1			
I-15 NO. 1	11-15-60	I-12			

SUPPLEMENTAL SPECIFICATIONS

1963 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 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 REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAYS, EXCEPT AS NOTED ON SHEET 3, AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON THESE PLANS.

APPROVED _____
DATE 3-8-63 DIVISION DEPUTY DIRECTOR

APPROVED _____
DATE _____ ENGINEER OF BRIDGES

APPROVED _____
DATE 8-12-63 ENGINEER OF LOCATION AND DESIGN

APPROVED _____
DATE 8-12-63 DEPUTY DIRECTOR OF DESIGN AND CONSTRUCTION

APPROVED _____
DATE 8-9-63 DEPUTY DIRECTOR OF RIGHT-OF-WAY

APPROVED _____
DATE 8-19-63 DEPUTY DIRECTOR OF PLANNING AND PROGRAMMING

APPROVED _____
DATE _____ FIRST ASSISTANT DIRECTOR

APPROVED _____
DATE 8/19/63 DIRECTOR OF HIGHWAYS

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED: _____

DIVISION ENGINEER _____ DATE _____

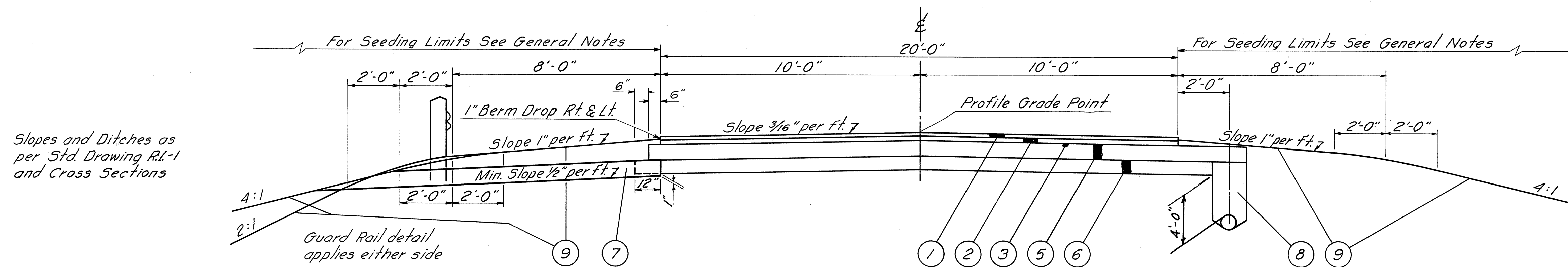
FILE N ^o	HARDIN COUNTY - HAR-69-2.36 HAR-67-2.43
DATE OF LETTING	_____ 19__
CONTRACT N ^o	_____

AUG 1 1965
GROUND PHOTOLAB

TYPICAL SECTIONS TYPE T-35

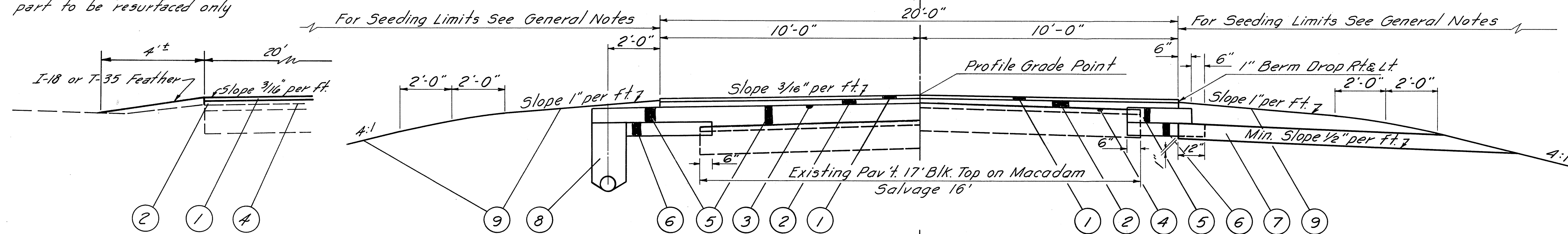
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

HARDIN COUNTY
HAR-69-2.36
HAR-67-2.43



Slopes and Ditches as per Std. Drawing RL-1 and Cross Sections

Detail of Edge Treatment on part to be resurfaced only



Typical Section at left applies:

Sta. 144+75 to Sta. 145+75
Sta. 156+50 to Sta. 196+25
Sta. 206+25 to Sta. 215+00
Sta. 231+07.97 to 231+78.32
Total Part I = 5,020.35 Lin. Ft.
Sta. 92+50 to Sta. 103+00
Total Part II = 1,050 Lin. Ft.

Detail of part to be resurfaced only applies:

Sta. 124+85 to Sta. 126+43 (4' T-35 shoulders)
Sta. 126+43 to Sta. 129+80 (4' I-18 shoulders)
Total Part I = 495 Lin. Ft.

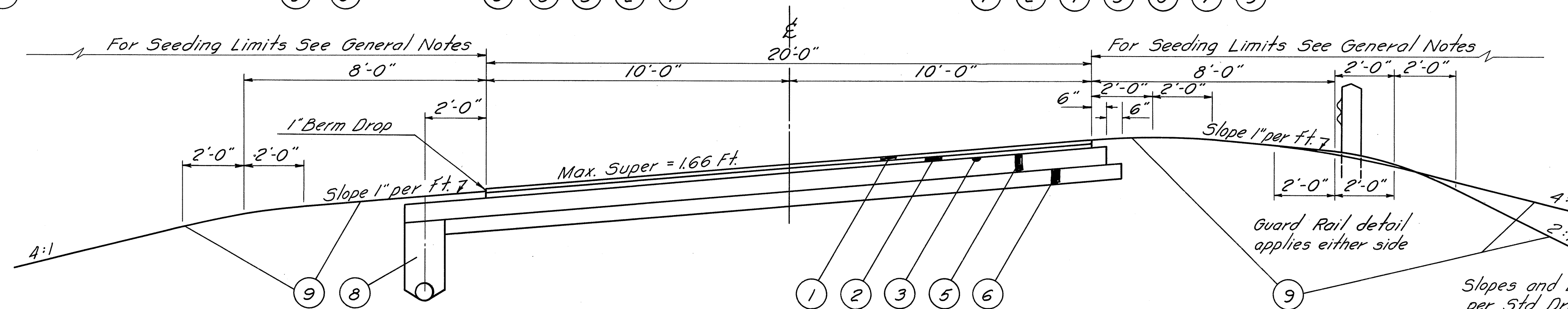
Sta. 124+85 to Sta. 125+35, Feather (See Std. Drwg. T-35)

Typical Section at left applies:

Sta. 129+80 to Sta. 136+75
Sta. 231+78.32 to Sta. 232+10, Feather (See Std. Drwg. T-35)
Total Part I = 726.68 Lin. Ft.
Sta. 92+00 to Sta. 92+50, Feather (See Std. Drwg. T-35)
Sta. 103+00 to Sta. 103+50, Feather (See Std. Drwg. T-35)
Total Part II = 100 Lin. Ft.

Typical Section at left applies:

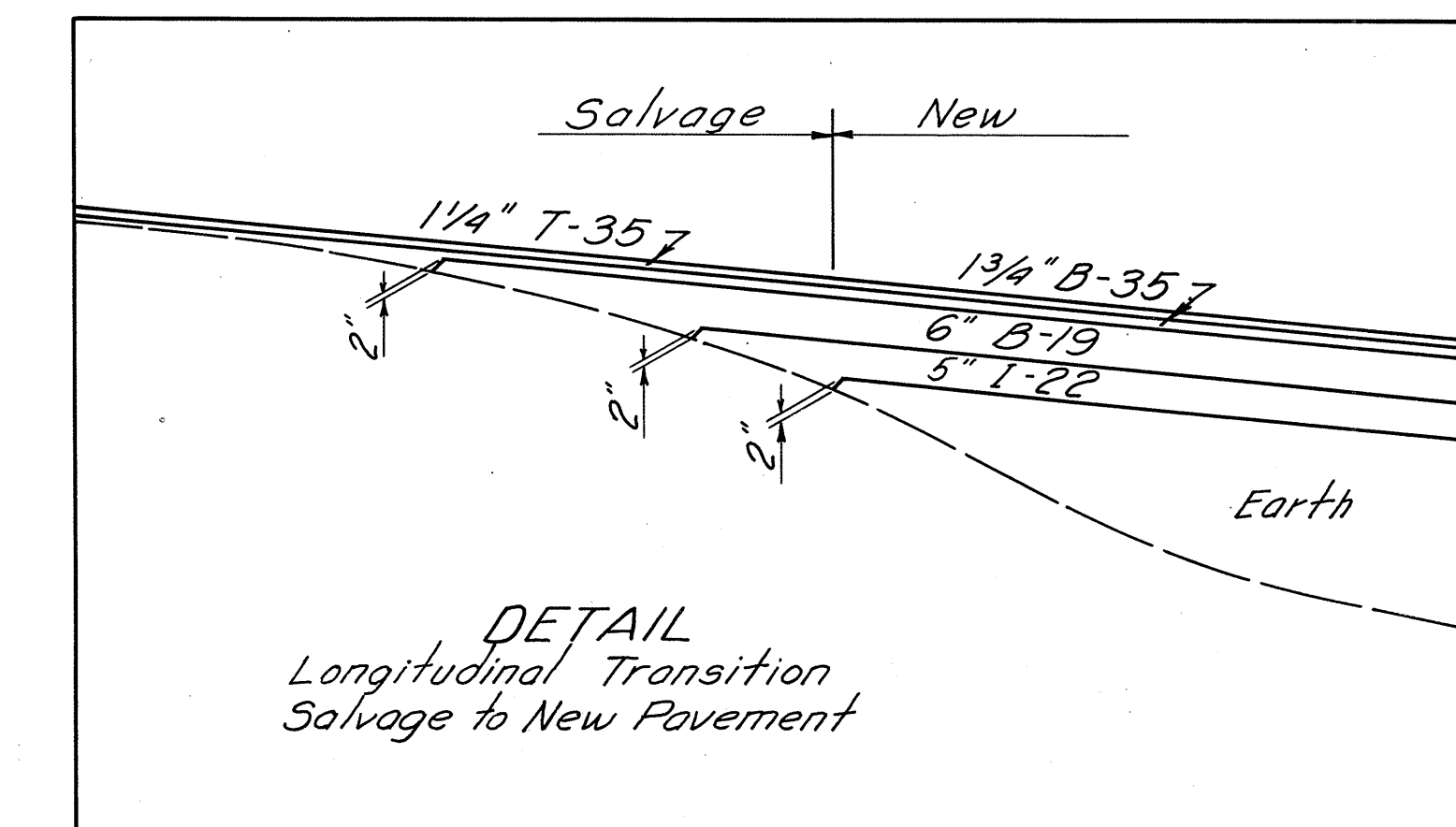
Sta. 136+75 to Sta. 144+75
Sta. 145+75 to Sta. 156+50
Sta. 196+25 to Sta. 206+25
Sta. 215+00 to Sta. 230+85.53
Total Part I = 4,460.53 Lin. Ft.



Slopes and Ditches as per Std. Drawing RL-1 and Cross Sections

* Thicknesses shown are "designed" thicknesses as described in Sec. T-35.01 and Sec. B-35.01.

- * ① Item T-35 1 1/4" Asphaltic Concrete Surface Course Type "C" (85-100)
- * ② Item B-35 1 3/4" Asphaltic Concrete Leveling Course (85-100) (1" Min. to 3 3/4" Max. over Exist. Pav't.)
- ③ Item T-30 Bituminous Prime Coat using Sec. M-5.7, RT-2 or RT-3 applied at the rate of 0.40 Gal. per Sq. Yd.
- ④ Item T-30 Bituminous Tack Coat using Sec. M-5.5, MS-2 or RS-1 or Sec. M-5.2, RC-1 or RC-2 as per Section T-30.02 applied at the rate of 0.10 Gal. per Sq. Yd.
- ⑤ Item B-19 6" Aggregate Base Course (2" Min. to 8" Max. over Exist. Pav't.)
- ⑥ Item I-22 5" Subbase (2" Min. to 7" Max. over Exist. Pav't. if thickness of B-19 over Exist. Pav't. exceeds 8")
- ⑦ Item I-9 Stone Underdrains No. 2 where called for on plans
- ⑧ Item I-1 6" Class 1-3 Pipe where directed by the Engineer.
- ⑨ Item L-9 Seeding and Protecting
- ⑩ Item I-18 Stabilized Crushed Aggregate Shoulders and Approaches, where called for on plans.



DETAIL
Longitudinal Transition
Salvage to New Pavement

GENERAL NOTES

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

UTILITY ADJUSTMENT:~ Any or all work required for removing, relocating and construction of new facilities for Public or Private Utilities will be done by and at the expense of their respective owners, unless otherwise noted on these plans.

FIELD OFFICE:~ The Contractor shall, in accordance with Sec. 5-0.01(b), provide for the exclusive use of the State's employees, a suitable field office having a minimum of 300 Sq. Ft. of floor space. The Contractor shall have a Telephone installed and maintained in this field office during the construction of this project.

DESIGN SPEED:~ The geometrics for this project have been planned for a design speed of 50 miles per hour except in the unincorporated Village of Roundhead and except on S.R. 67 where the design speed is 40 miles per hour.

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

NON-RIGID PAVEMENT REMOVAL:~ Removal and disposal of existing non-rigid pavement, unless otherwise indicated on these plans, shall be measured and paid for as Item E-1, Roadway Excavation.

REMOVAL OF EXISTING PIPE:~ The removal of all existing 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.

REMOVAL OF EXISTING GUARD RAILS:~ Existing guard rail will be removed by others.

SEEDING:~ Quantities for seeding are calculated for the soil areas between lines two (2) feet beyond the work limits, as shown on the cross sections. No payment for areas beyond these limits will be allowed unless authorized by the Engineer.

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

<u>Mixture No. 1</u>	<u>Mixture No. 2</u>
65% Kentucky 31 Fescue	70% Kentucky 31 Fescue
25% Kentucky Blue Grass	30% Yellow Blossom Sweet Clover
10% Fancy Red Top	

Mixture No. 2 shall be used on 2:1 foreslopes and all backslopes. Agricultural lime shall be applied over all areas seeded with No. 2 Mixture at the rate of 100 lbs. per 1000 Sq. Ft. Mixture No. 1 shall be used on all other areas. In addition to the above mixtures, for an area 3ft each way from the ditch center line, the following shall be added: from January 1 to July 1, 5lbs. of Oats per 1000 Sq. Ft. from July 1 to January 1, 5lbs. of Northern Rye per 1000 Sq. Ft. A rotary type mixer shall not be used and no mulching will be permitted in this area. Any stone or other debris 2" or over in diameter shall be removed from the exposed surface of the seed bed. Payment for all the above work shall be included in the unit price bid for Item L-9, Seeding and Protecting, as per plan.

REMOVAL OF TREES AND STUMPS:~ Trees and Stumps shall be removed or preserved as indicated on the plans by the following symbols:

Trees or Stumps to be removed ☒ Trees to be preserved ○

The number of trees or stumps to be removed as indicated by the above symbols is approximate and the State of Ohio reserves the right to order the removal of additional trees or stumps, even though not indicated on the plans or indicated to be preserved.

DRIVEWAYS:~ Unless otherwise shown on these plans, all driveways on this project shall be type 1 Standard Drawing DR-1, modified by deleting the 12" offset at the edge of the pavement. Pavement courses and thicknesses are as follows:

	<u>Drive Aprons</u>	<u>Other Areas</u>	
TYPE OF APPROACH:	T-35* I-18	T-35* I-18	
Mailbox Approaches	2" 5"		
Residence Drive	2" 5"	* 8"	*If existing drive is hard-surfaced the same courses and thicknesses shall be used beyond the drive as within the drive aprons.
Commercial Drive	2" 7"	* 9"	
Field Drive	0" 6"	0" 6"	* Two 1" Courses

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. At the Beginning of Work, S.R. 69.
2. At the End of Work, S.R. 69.
3. At the Beginning of Work, S.R. 67.
4. At the End of Work, S.R. 67.

Sign details shall be as specified on Standard Drawing FACI-1, "Code N-45(2) 78", and the signs shall be erected in accordance with Standard Drawing FACI-2. Additional requirements shall be in accordance with notes in the proposal.

ITEM I-9, STONE UNDERDRAINS, NO. 2:~ Stone Underdrains shall be placed at fifty (50) foot intervals on each side of normal crowned sections and at twenty-five (25) foot intervals on the low side only of superelevated sections, except where I-1, I-3 Underdrains have been provided. In the final finishing of slopes and ditches, care shall be exercised to assure that the exposed ends of I-9 Underdrains shall be left free of cover that would impede free drainage.

TACK COAT:~ Item T-30, Bituminous Tack Coat may be non-performed at the discretion of the Engineer. Pay quantity for this Item will be determined by final measurement.

ELEVATION DATUM:~ All elevations refer to U.S.G.S. datum.

ITEM SPECIAL DRILLED WELL ABANDONED:~ The existing concrete or stone slab cover shall be removed and disposed of. The pump and all other salvageable parts shall be carefully removed and stored on the abutting property. The casing shall be cut off at least two feet below the proposed finished grade outside proposed pavement areas or at least two feet below the proposed subgrade elevation inside the proposed pavement areas and capped with Class "F" concrete or a standard threaded pipe cap. The unit price bid for each "Drilled Well Abandoned" shall include payment for all labor, tools, materials and incidentals necessary to complete this item.

CATCH BASINS AS PER PLAN:~ All pipe joints within eight (8) feet of a Catch Basin or Inlet shall be sealed in accordance with Section I-1.05 of the specifications regardless of the type of backfill specified. Additional cost of all incidentals necessary to seal the joints of open joint pipe within eight (8) feet of the Catch Basins or Inlets shall be included in the unit price bid for Item I-8, Catch Basins or Inlets as per plan.

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 the completion of this project. These quantities shall not be delivered to the project until so directed by the Engineer.

CONSTRUCTION PROCEDURE AND DETOUR LIMITATION:~ When a detour is not in effect, two way traffic shall be maintained at all times, except one way traffic will be permitted consistent with the requirements of the specifications for the placement of the pavement items and crossovers. One way traffic will be permitted only during the daylight hours for the placement of pipe crossovers. The length of time of detours shall be held to a minimum and in no case shall exceed the number of consecutive calendar days listed below.

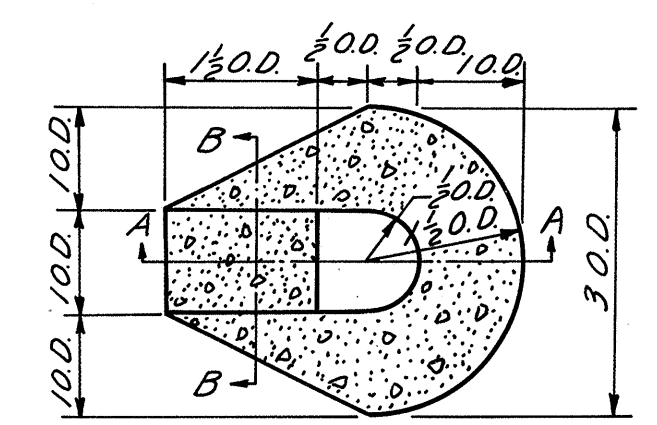
S.R. 67 E-21 days S.R. 67 W-30 days S.R. 69-160 days

Detours on S.R. 67 W and S.R. 69 shall not be in effect at the same time. The S.R. 67 E detour shall be in effect while S.R. 69 is detoured. Neither S.R. 67 or S.R. 69 shall be closed prior to April 1, 1964 without permission of the Engineer.

CONSTRUCTION LAYOUT STAKES:~ See note in proposal describing the work included in this lump sum pay item, and subsequently removed.

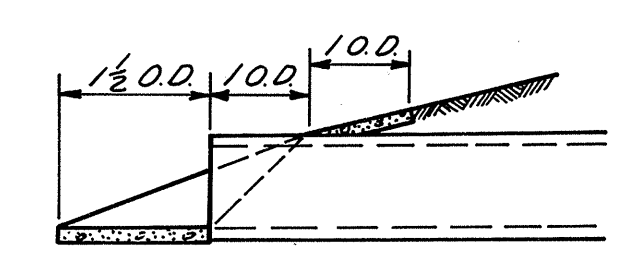
TEMPORARY RUN-AROUND:~ A temporary run-around shall be constructed, maintained, and during construction of the intersection of S.R. 69 and S.R. 67 and that part of S.R. 67 E of the intersection, as indicated on Sheet 4B.

RIPRAP DETAIL FOR PIPE ENDS



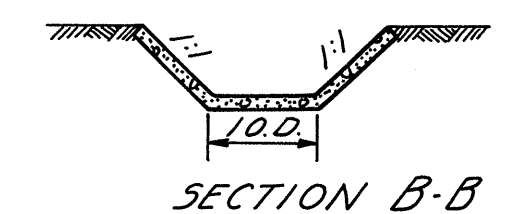
CONNECTIONS TO EXISTING PIPES

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 pipe item.

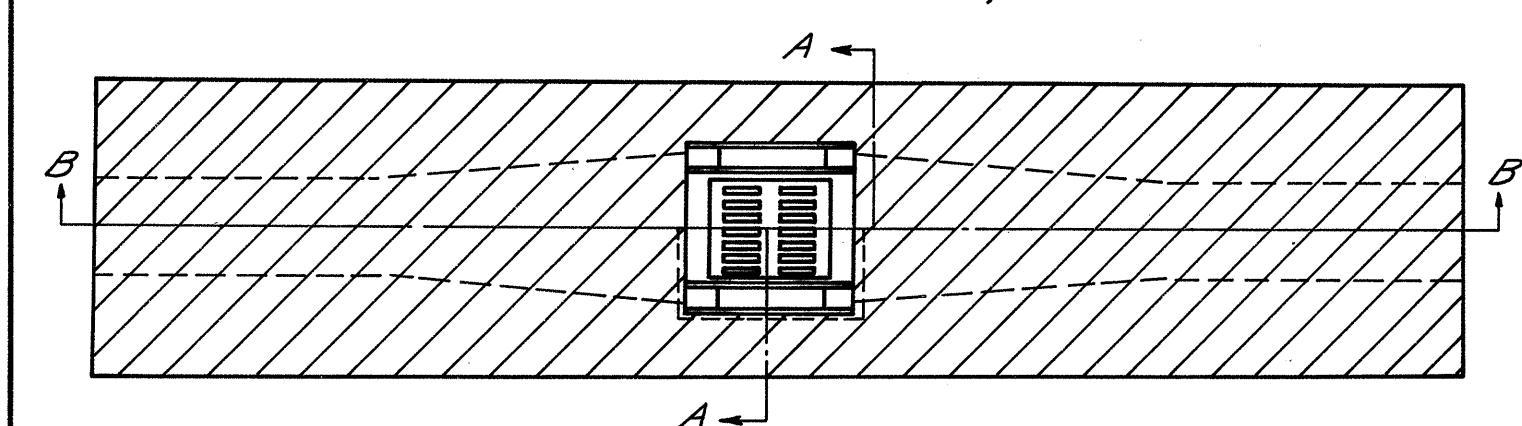


GUARD RAIL ADJUSTMENT

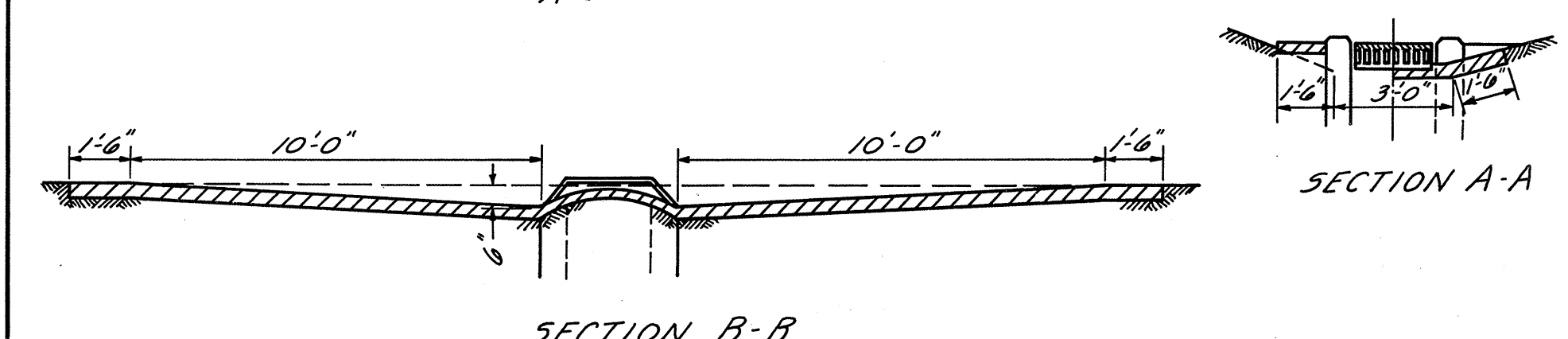
The stationing of individual runs of guard rail shall be adjusted, if necessary, by the Engineer at the time of construction to accommodate the standard panel lengths furnished.



DETAIL OF SODDING AT CATCH BASINS
Area = 16 Sq. Yds.

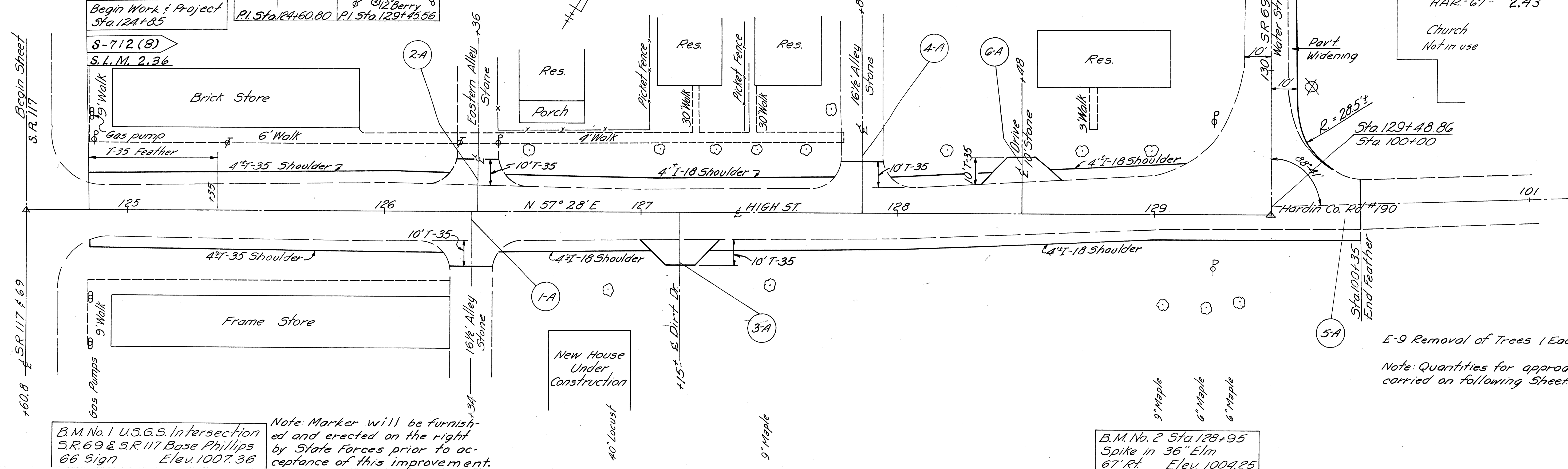


ITEM I-18:
Compaction of subgrade required by Section I-18.03 is hereby waived on the portion of this Project where Item I-18 is to be placed as wedge course on existing shoulders.



Utilities
 United Telephone Co - Bellefontaine, O.
 United Rural Electric Co-op - Kenton, O.
 Dayton Light & Power Co. - Dayton, O.
 Ohio Fuel Gas Co. - Columbus, O.

HARDIN COUNTY
 HAR. -69- 2.36
 HAR. -67- 2.43
 Church
 Not in use



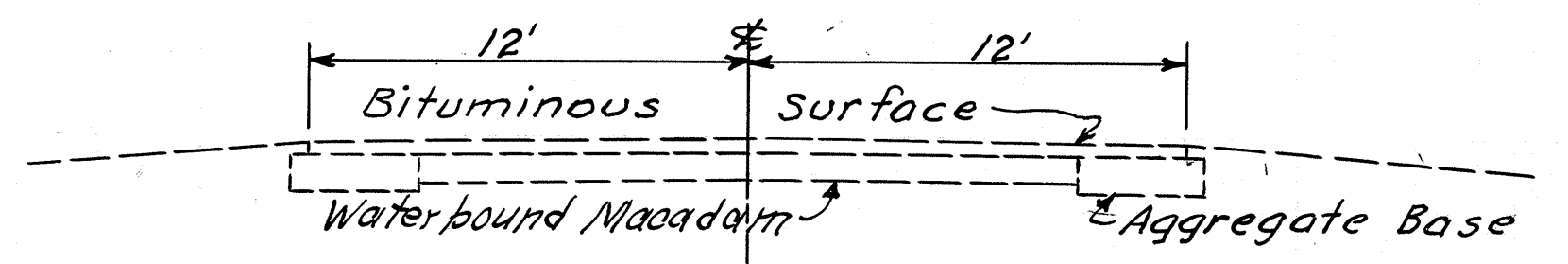
B.M. No. 1 U.S.G.S. Intersection
 S.R. 69 & S.R. 117 Base Phillips
 66 Sign Elev. 1007.36

Note: Marker will be furnished and erected on the right by State Forces prior to acceptance of this improvement.

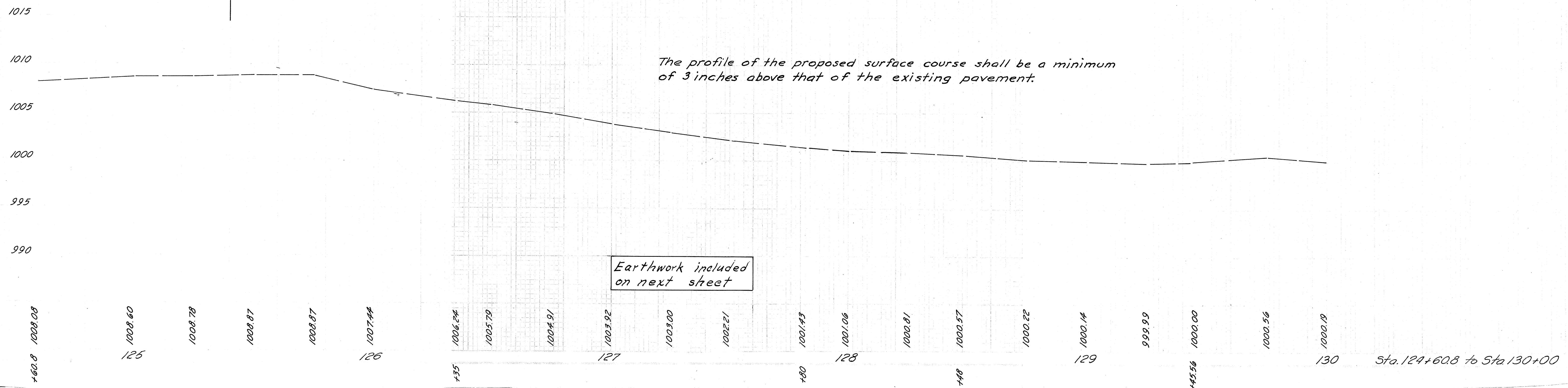
B.M. No. 2 Sta 128+95
 Spike in 36" Elm
 67' Rt. Elev. 1004.25

E-9 Removal of Trees 1 Each
 Note: Quantities for approaches carried on following sheet.

TYPICAL SECTION OF ADJOINING PAVEMENT

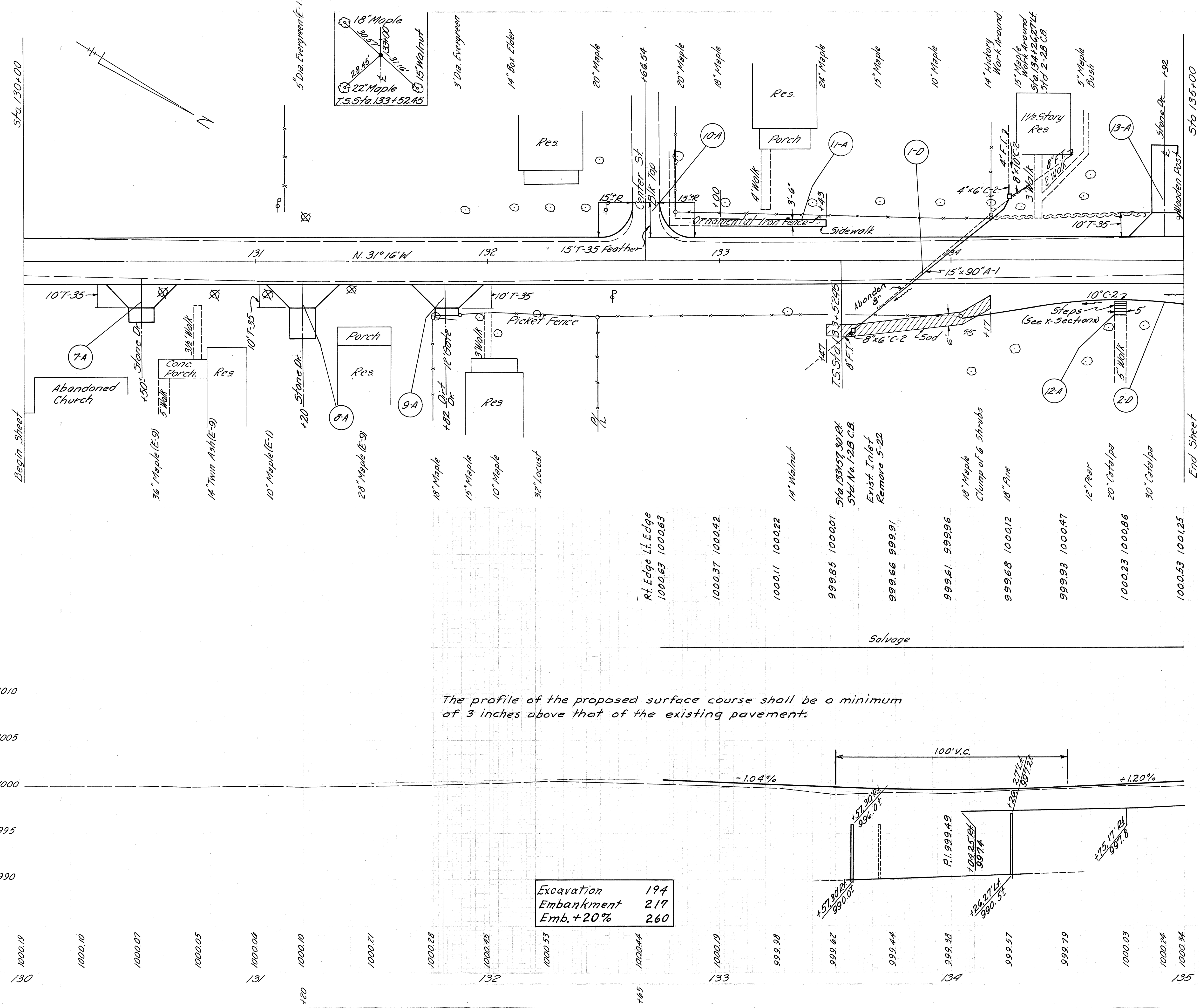


The profile of the proposed surface course shall be a minimum of 3 inches above that of the existing pavement.



JUL 27 1959
 ARCHIVE 06474805

SCANNED
JUL 27 1999
LAWRENCE D 479



The profile of the proposed surface course shall be a minimum of 3 inches above that of the existing pavement.

HARDIN COUNTY
 HAR-69- 2.36
 HAR-67- 2.43

ESTIMATED QUANTITIES FOR APPROACHES

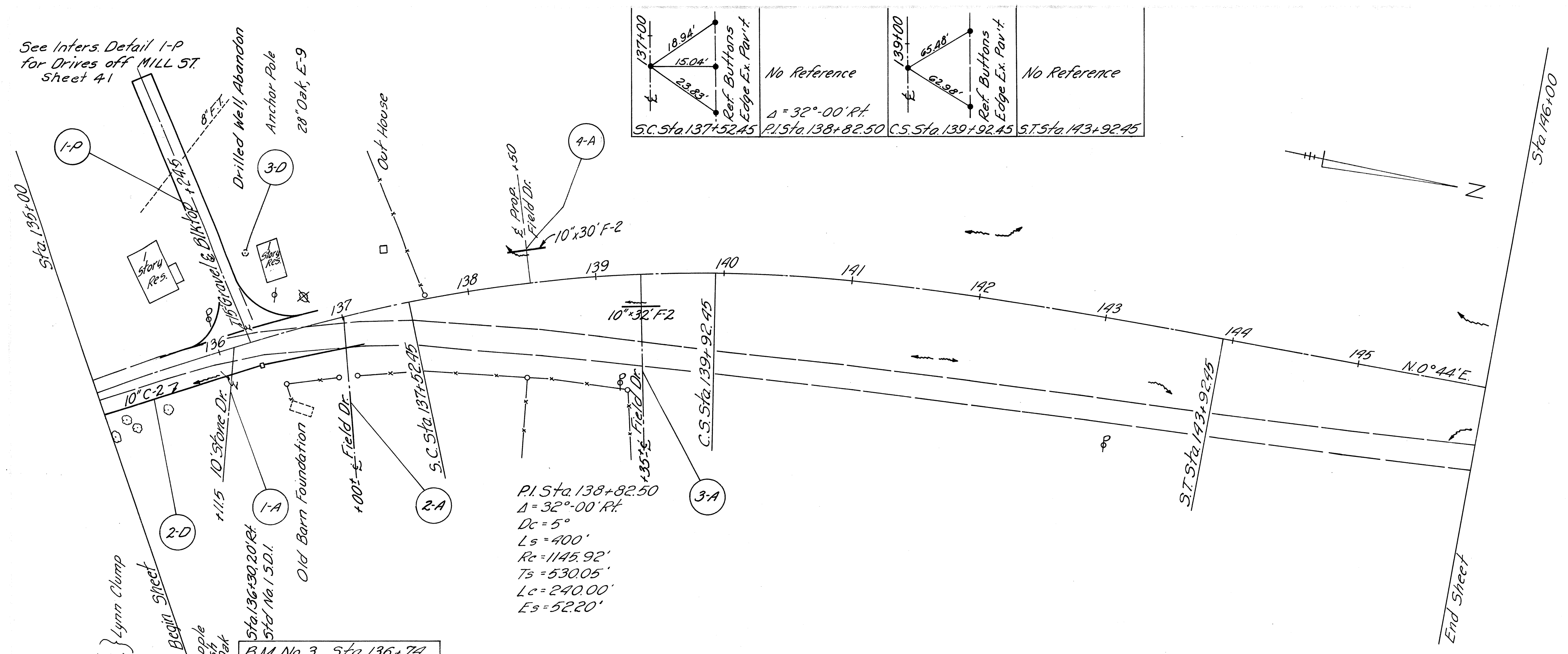
Ref. No.	Station to Station	Side	Remarks	Length	Prime	T-30	T-35	I-18	B-35	E-8	I-13
1-A	126+34	Rt. Alley		10' 16" 115	Gal.	1.6	40	5" 8"	Asph. Conc. Level	Rem. of Exist. S.W.	Side-Walk
2-A	126+36	Lt. Alley		10' 16" 115	Gal.	1.6	40	5" 8"	Asph. Conc. Level	Rem. of Exist. S.W.	Side-Walk
3-A	127+15	Rt. Res. Dr. Type 2		10' 12' 98	Gal.	1.4	34	5" 8"	Asph. Conc. Level	Rem. of Exist. S.W.	Side-Walk
4-A	127+06	Lt. Alley		10' 16" 115	Gal.	1.6	40	5" 8"	Asph. Conc. Level	Rem. of Exist. S.W.	Side-Walk
5-A	129+48.86	Rt. Corr. for Inters.		11	Gal.	40	40	5" 8"	Asph. Conc. Level	Rem. of Exist. S.W.	Side-Walk
6-A	128+48	Lt. Res. Dr. Type 2		10' 12' 98	Gal.	1.4	34	5" 8"	Asph. Conc. Level	Rem. of Exist. S.W.	Side-Walk
7-A	130+50	Rt. Res. Dr. Type 2		16' 12' 98	Gal.	1.4	34 1.8	5" 8"	Asph. Conc. Level	Rem. of Exist. S.W.	Side-Walk
8-A	131+20	Rt. Res. Dr. Type 2		23' 12' 98	Gal.	1.4	34 5.9	5" 8"	Asph. Conc. Level	Rem. of Exist. S.W.	Side-Walk
9-A	131+82	Rt. Res. Dr. Type 2		12' 12' 98	Gal.	1.4	34 0.6	5" 8"	Asph. Conc. Level	Rem. of Exist. S.W.	Side-Walk
10-A	132+66.54	Lt. CENTER ST.		15' 12'	Gal.	4	1.4	5" 8"	Asph. Conc. Level	Rem. of Exist. S.W.	Side-Walk
11-A	133+00 to 133+43	Lt. Adjust S.W.		43' 3/4"	Gal.	1.4	34	5" 8"	Asph. Conc. Level	Rem. of Exist. S.W.	Side-Walk
12-A	134+73	Rt. Steps		6' 5"	Gal.	1.4	34	5" 8"	Asph. Conc. Level	Rem. of Exist. S.W.	Side-Walk
13-A	134+92	Lt. Res. Dr. Type 2		40' 12' 98	Gal.	1.4	34 80	5" 8"	Asph. Conc. Level	Rem. of Exist. S.W.	Side-Walk
Total				933' 15"	Gal.	186	496	75		171	171

93 F-9 Removal of Trees 3 Each

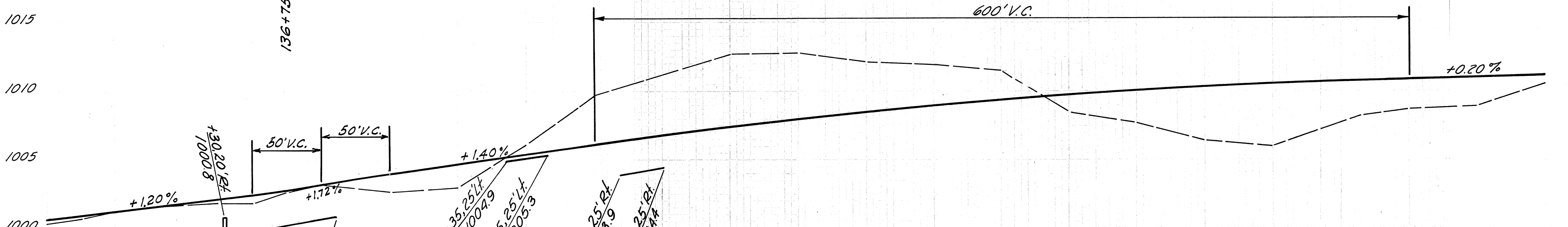
Sta. 130+00 to Sta. 135+00

See following sheet for drainage

HARDIN COUNTY
 HAR-69 - 2.36
 HAR-67 - 2.43



Rt. Edge Lt. Edge	1000.33	1001.25	1000.83	1001.65	1001.13	1002.04	1001.43	1002.43	1001.73	1002.83	1002.03	1003.22	1002.33	1003.62	1002.66	1004.04	1003.06	1004.53	1003.47	1005.04	1002.84	1005.48	1004.19	1005.85	1004.54	1006.20	1004.89	1006.55	1005.24	1006.90	1003.59	1007.25	1005.94	1007.60	1006.28	1007.94	1006.61	1008.27	1006.93	1008.59	1007.24	1008.88	1007.53	1009.10	1007.81	1009.28	1008.08	1009.46	1008.34	1009.63	1008.58	1009.77	1008.81	1009.91	1009.03	1010.03	1009.24	1010.15	1008.49	1010.25	1009.61	1010.33	1009.78	1010.41	1009.94	1010.48	1010.08	1010.52	1010.21	1010.56	1010.33	1010.58	1010.44	1010.60	1010.33	1010.64	1010.61	1010.66	1010.68	1010.68	1010.90
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1000.34	1000.78	1001.21	1001.58	1001.79	1001.93	1001.93	1002.68	1003.20	1002.70	1003.00	1006.10	1009.70	1011.20	1012.70	1012.80	1012.13	1011.93	1011.51	1008.55	1007.73	1006.43	1006.03	1008.24	1008.74	1008.94	1010.54
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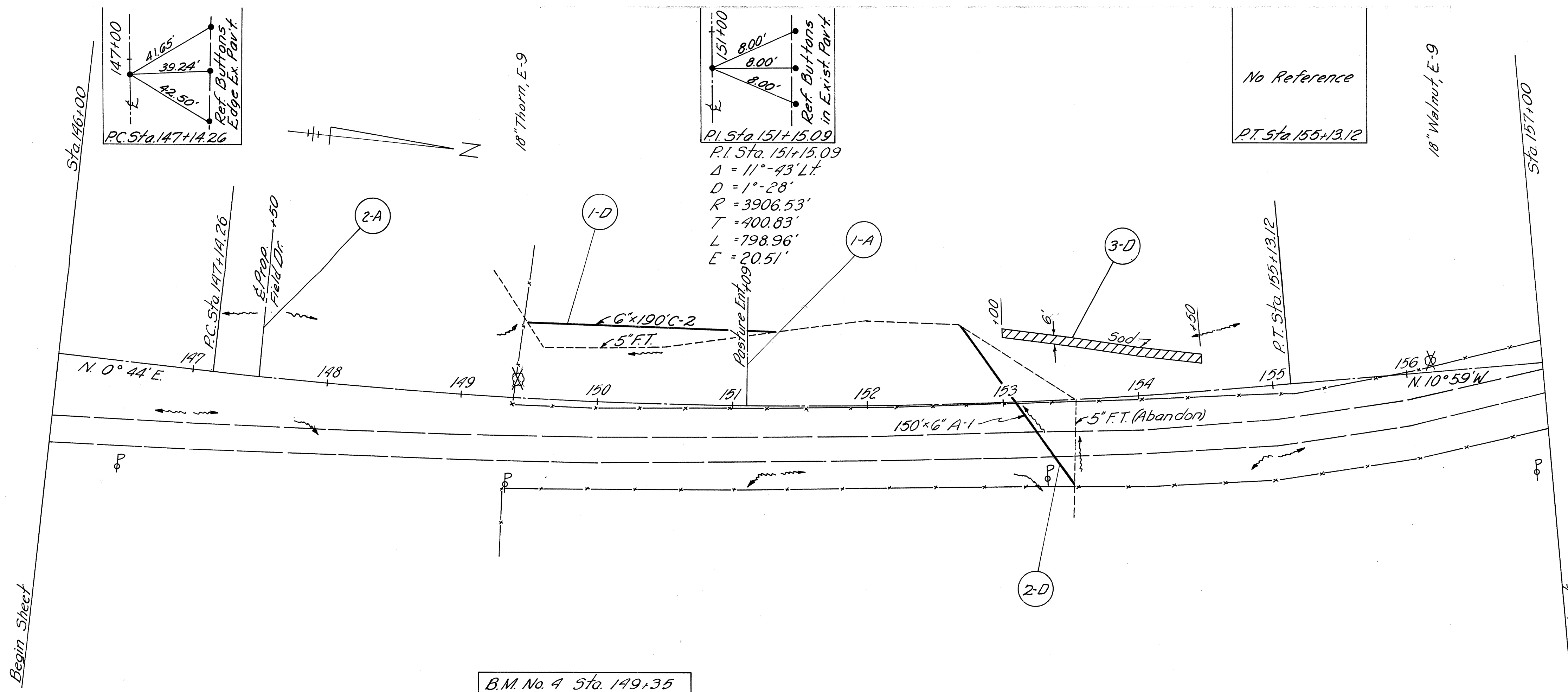
Excavation 7441
 Embankment 2462
 Emb. +20% 2954

Ref No.	Station to Station	Side	Remarks	44' BUD' Length	44' P.M.	7-30	7-35	I-18	I-1 Pipe	I-5	I-8	Spec. 5-22	Spec. 5-10
1-A	136+11.5	Rt.	Res. Dr.	25'12"	25'12"								
2-A	137+00	Rt.	Field Dr.	32'	32'								
3-A	139+35	Rt.	Field Dr.	27'12"	27'12"								
4-A	138+50	Lt.	Field Dr.	25'12"	25'12"								
1-0	133+47 to 134+35	Lt.	11'8"										
2-0	134+04 to 137+12	Rt.											
3-0	136+42	Lt.											
Total				26		3.5	6.5	90	308	6.16	1	1	1

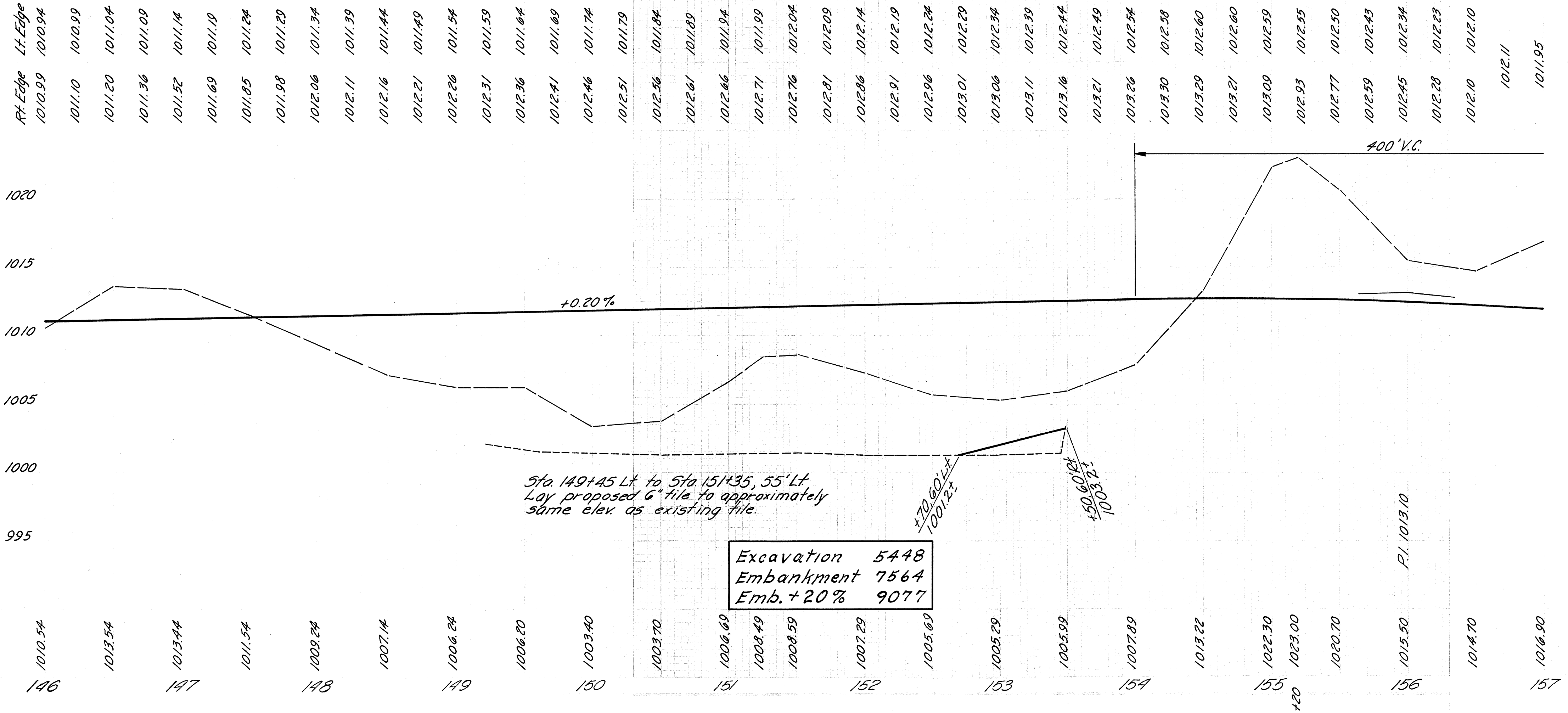
HARDIN COUNTY
 HAR-69- 2.36
 HAR-67 2.43

ESTIMATED QUANTITIES											
Ref No.	Station to Station	Side	Remarks	Length	Width	L-10 Slopes	I-18 Stab. Cr Aggreg. cu. Yd.	I-1 C-2 L.F.	I-5 Each	I-1 Class A-1 L.F.	
1-A	151+09±	Lt	Fld. Dr.	50	12'		16.1	6'		6'	
2-A	147+50	Lt	Fld. Dr.		12'		10.5				
1-D	149+17 to 151+32	Lt						190	1		
2-D	152+70 to 153+50	Rt							2	150	
3-D	153+00 to 154+50	Lt				100					
Total							100	266	190	3	150

E-9 Removal of Trees 2-Each



B.M. No. 4 Sta. 149+35
 Spike in 10" Elm
 104' Rt. Elev. 1010.15

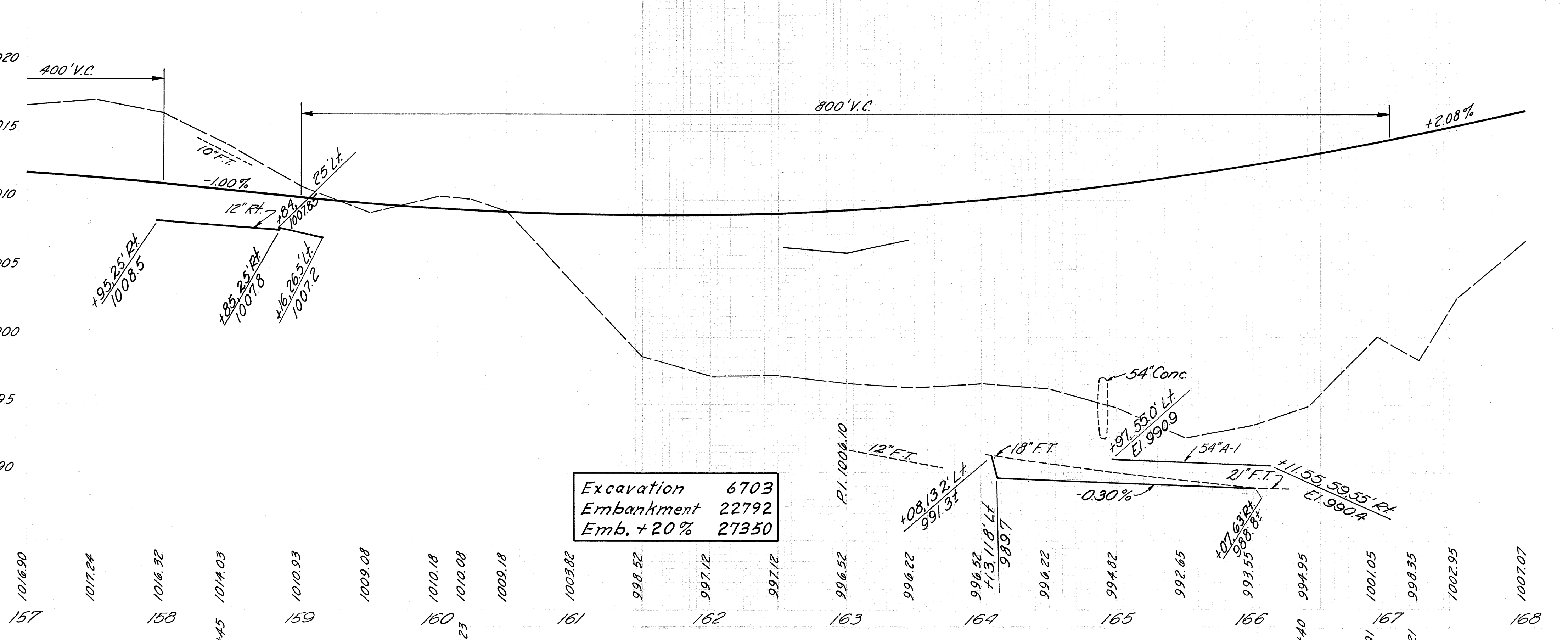
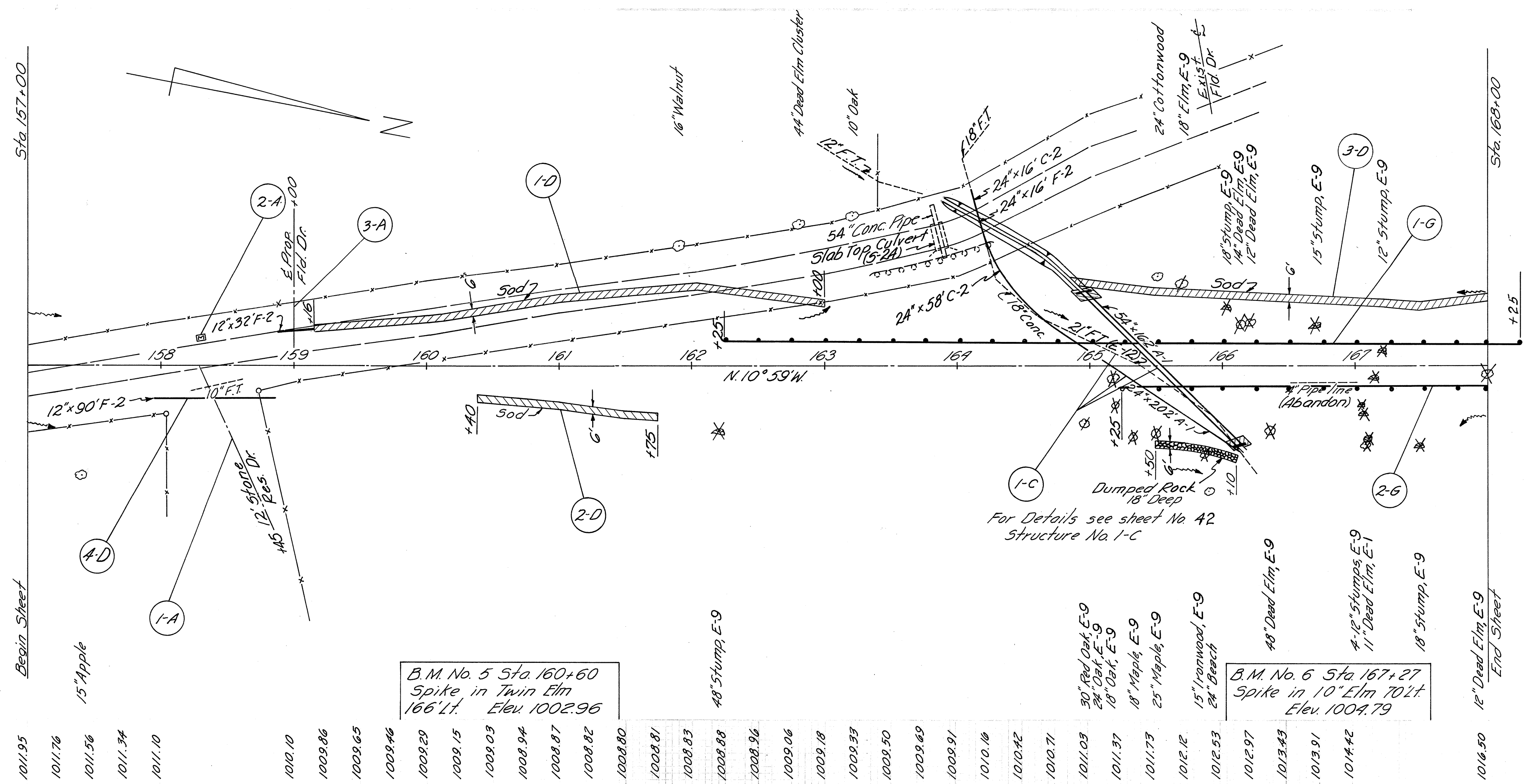


Excavation 5448
 Embankment 7564
 Emb. + 20% 9077

Sta. 146+00 to Sta. 157+00

SCANNED
 JUL 27 1989
 ARCHIVE CO 474 898

HARDIN COUNTY
 HAR-69- 2.36
 HAR-67- 2.43

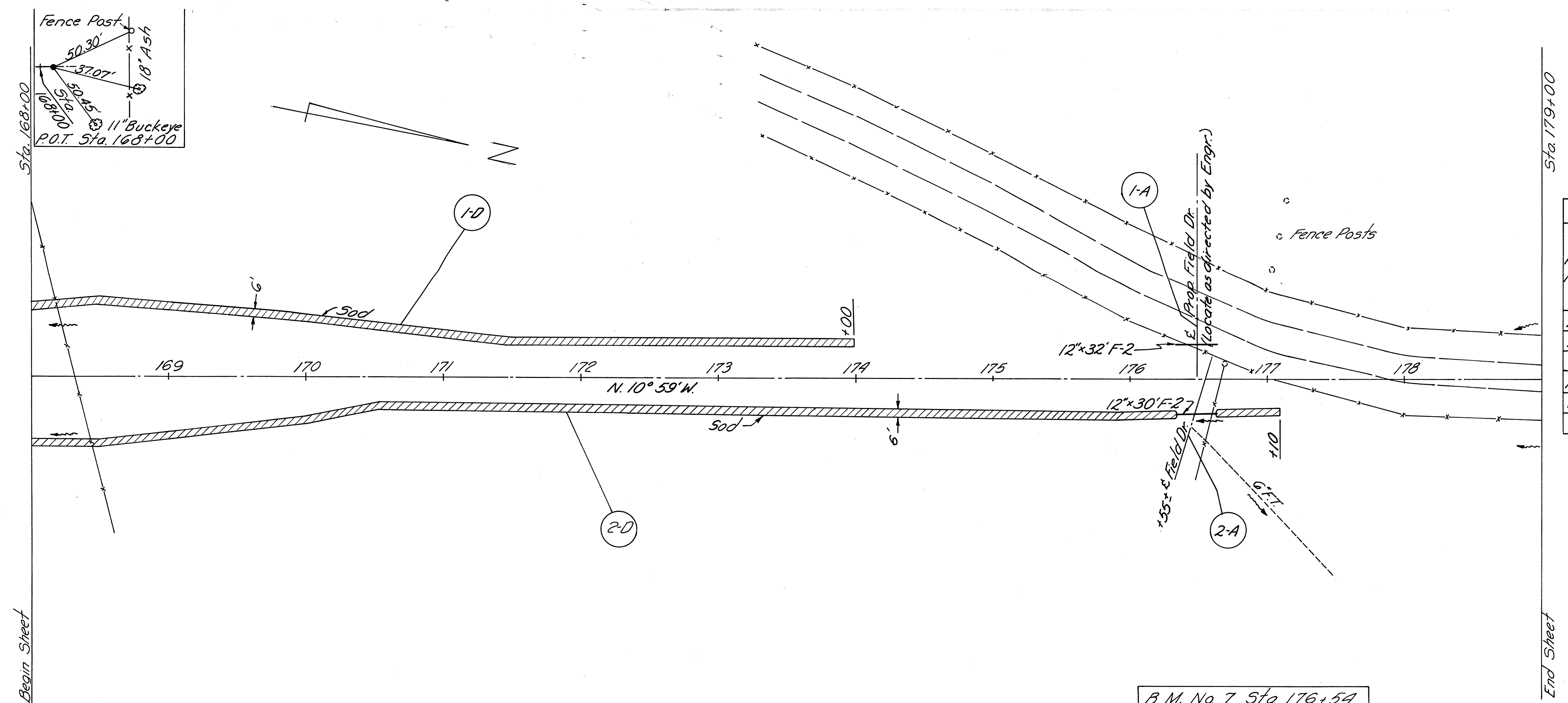


Excavation 6703
 Embankment 22792
 Emb. + 20% 27350

Ref. Station to Station	Side	Remarks	Length	Width	Prime	T-30	T-35	I-18	E-3	F-3	I-1	I-2	I-10	I-15
1-A 158+45	RT Res. Dr.		90	12	25	Gal	3.5	88	184					
2-A 158+30	LT M.B.A.		6'	10			1.5	38						
3-A 159+00	LT Fld. Dr.		25'	12										
1-D 159+16 to 163+00	LT													
2-D 160+40 to 161+75	RT													
3-D 164+05 to 168+00	LT													
4-D 157+95 to 158+85	RT													
1-C 163+90 to 166+20	LIR													
1-G 162+25 to 168+25	LT													
2-G 165+25 to 168+00	RT													
Total			35				50	42.5	69	156	74	16	594	875

* **6" Depth
 * Includes removal of old slab top, 54" pipe and wingwalls
 E-9 Removal of Trees and Stumps - 20 Each

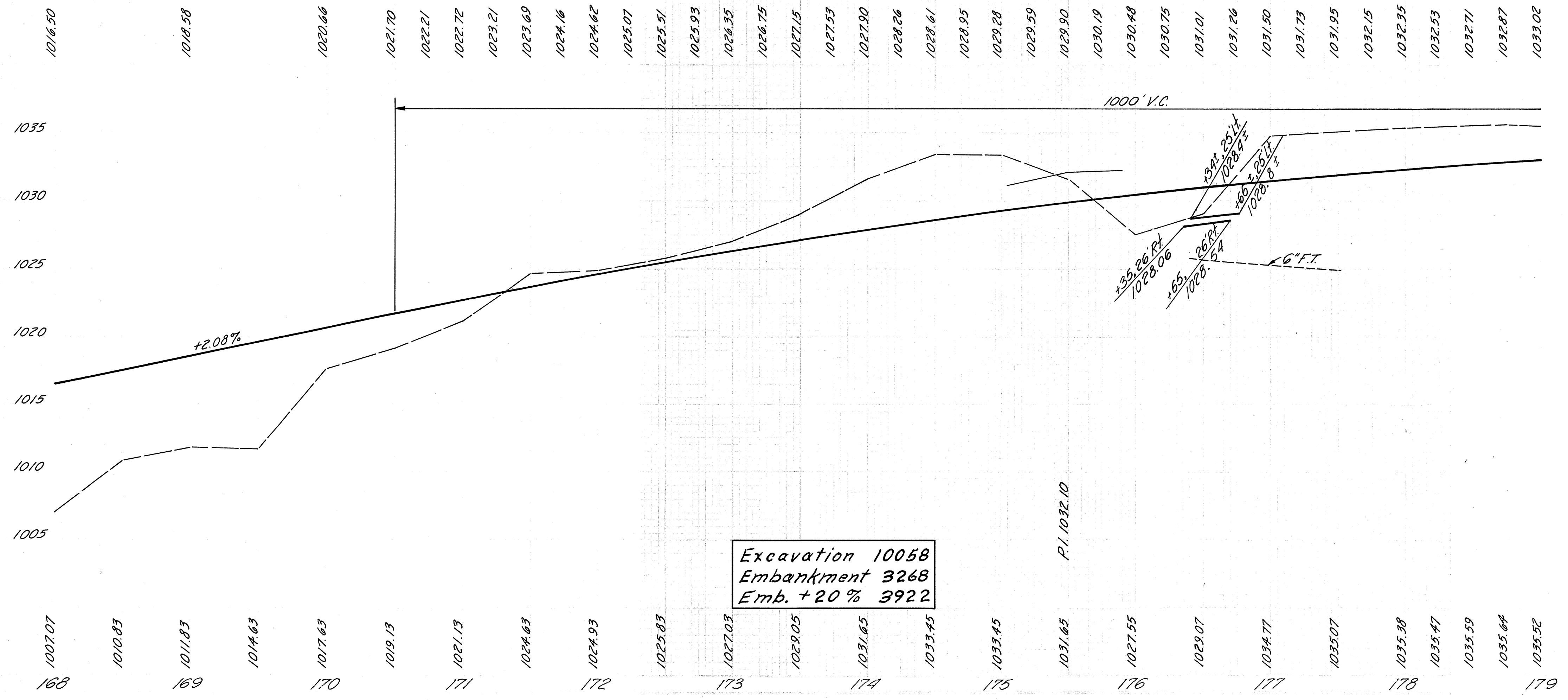
HARDIN COUNTY
 HAR-69- 2.36
 HAR-67 2.43



ESTIMATED QUANTITIES										
Ref. No.	Station to Station	Side	Remarks	Length	Width			I-18 Stab. Aggreg. Cu. Yd.	I-1 Clearing Cu. Yd.	L-10 500' Cu. Yd.
1-A	176+50 ±	Lt.	Fld. Dr.	25'	12'			10.5	32	
2-A	176+55	Rt.	Fld. Dr.	25'	12'			10.5		
1-D	168+00 to 174+00	Lt.								400
2-D	168+00 to 177+10	Rt.								30 587
								210	62	987

SCANNED
 JUL 27 1959
 ARDINE CO. 178 010

B.M. No 7 Sta 176+54
 Spike in Corner Post
 16' Lt. Elev. 1032.92



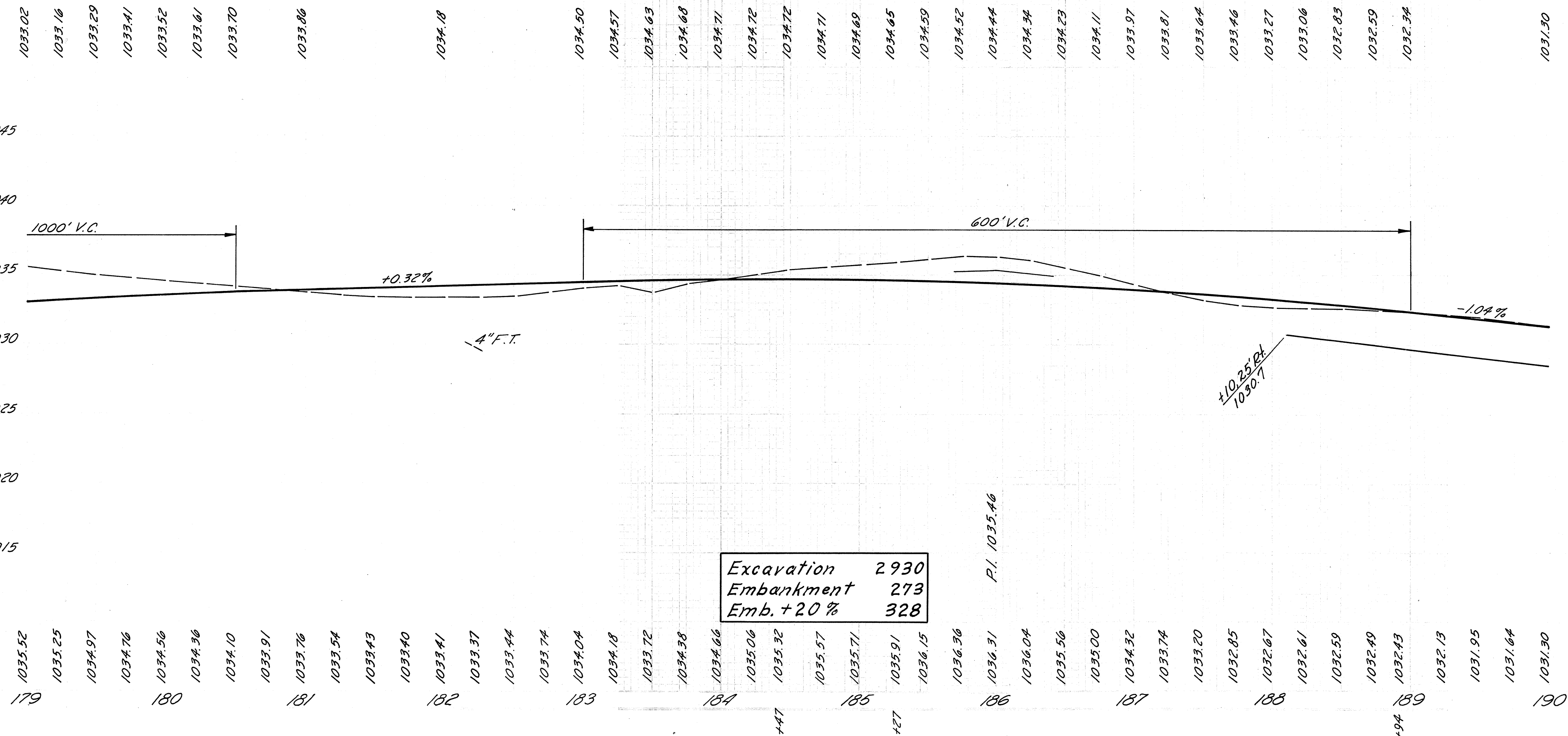
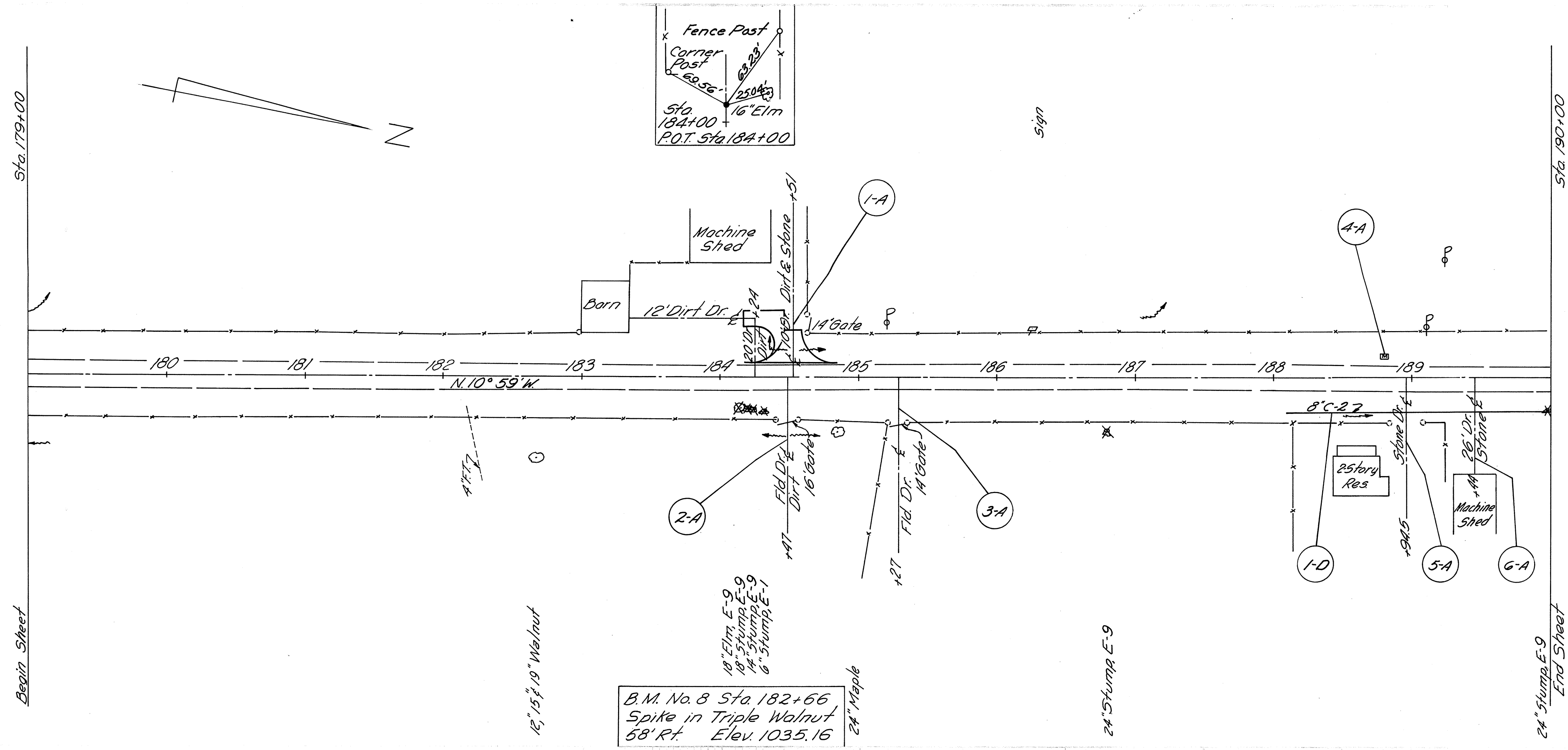
Excavation 10058
 Embankment 3268
 Emb. + 20% 3922

HARDIN COUNTY
 HAR-69- 2.36
 HAR-67- 2.43

ESTIMATED QUANTITIES

Ref No.	Station to Station	Side	Remarks	Length	Width	ESTIMATED QUANTITIES			
						Prime	Asph. Conc. Surf.	Slab Crush Aggregate	Pipe C.C-2 Lin. Ft.
						Gal.	Cu. Yd.	5" 6" 8" 8"	
1-A	184+51	Lt.	Barn Dr	25'	12'			13.5	
2-A	184+47	Rt.	Fld Dr	25'	12'			10.5	
3-A	185+27	Rt.	Fld Dr	25'	12'			10.5	
4-A	187+80	Lt.	M.B.A.	6'	10'		1.5	3.8	
5-A	188+94.5	Rt.	Res. Dr	35'	12'	25	3.5	8.8	30
6-A	189+44	Rt.	Barn Dr	30'	26'			18.6	
1-D	188+10 to 190+38	Rt.							228
Total						35	5.0	68.7	228

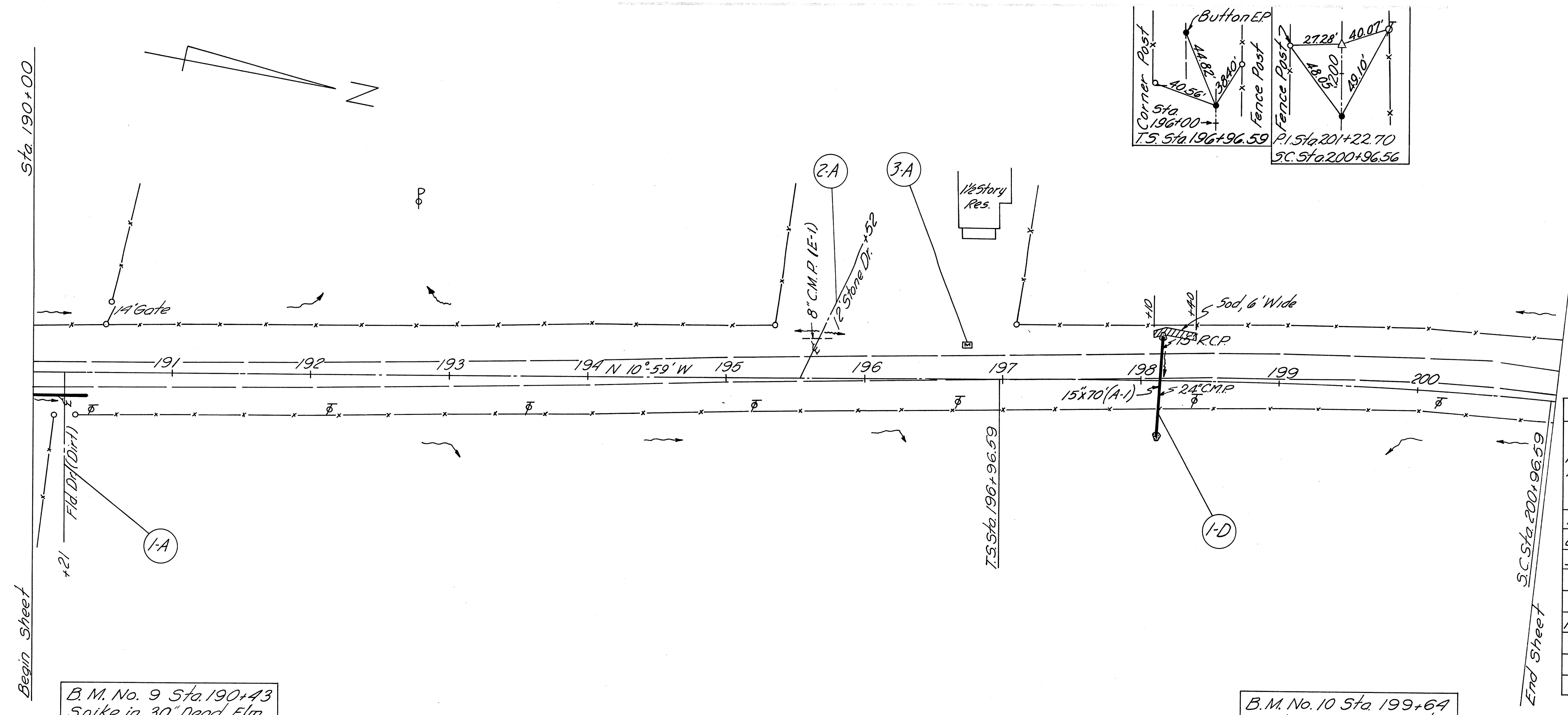
E-9 Removal of Trees and Stumps 5 Each



Sta. 179+00 to Sta. 190+00

SOAILED
 JUL 27 1939
 ARCHIVE 004719

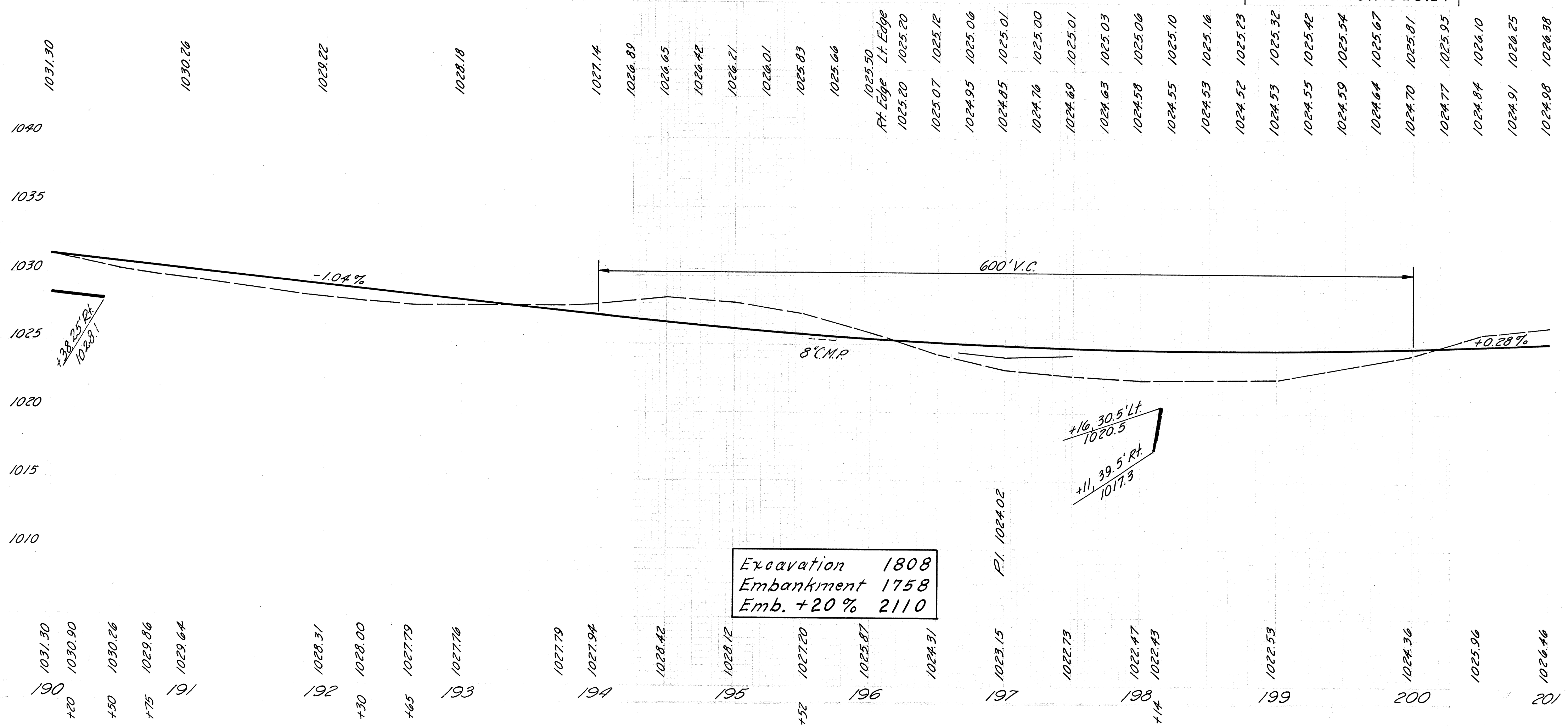
HARDIN COUNTY
 HAR-69-2.36
 HAR-67-2.43



Ref. No.	Station to Station	Side	Remarks	Length	Width	7-30		7-35		I-18		I-1	I-10	L-10
						Prime	Asph. Conc. Surf.	Stab. Crush. Aggregate	Pipe Class A	I-10	L-10			
						Gal.	Cu. Yd.	5"	6"	8"	15"	Sq. Yd.	Sq. Yd.	
1-A	190+21	Rt.	Fld. Dr.	45'	12'					123				
2-A	195+52	Lt.	Res. Dr.	45'	12'	25	3.5	8.8	6					
3-A	196+75	Lt.	M.B.A.			10	1.5	3.8						
1-D	198+10 to 198+40	Rt.									70	4.2	20	
Totals						35	50	30.9	70	4.2	20			

B.M. No. 9 Sta. 190+43
 Spike in 30' Dead Elm
 142' Lt. Elev. 1031.49

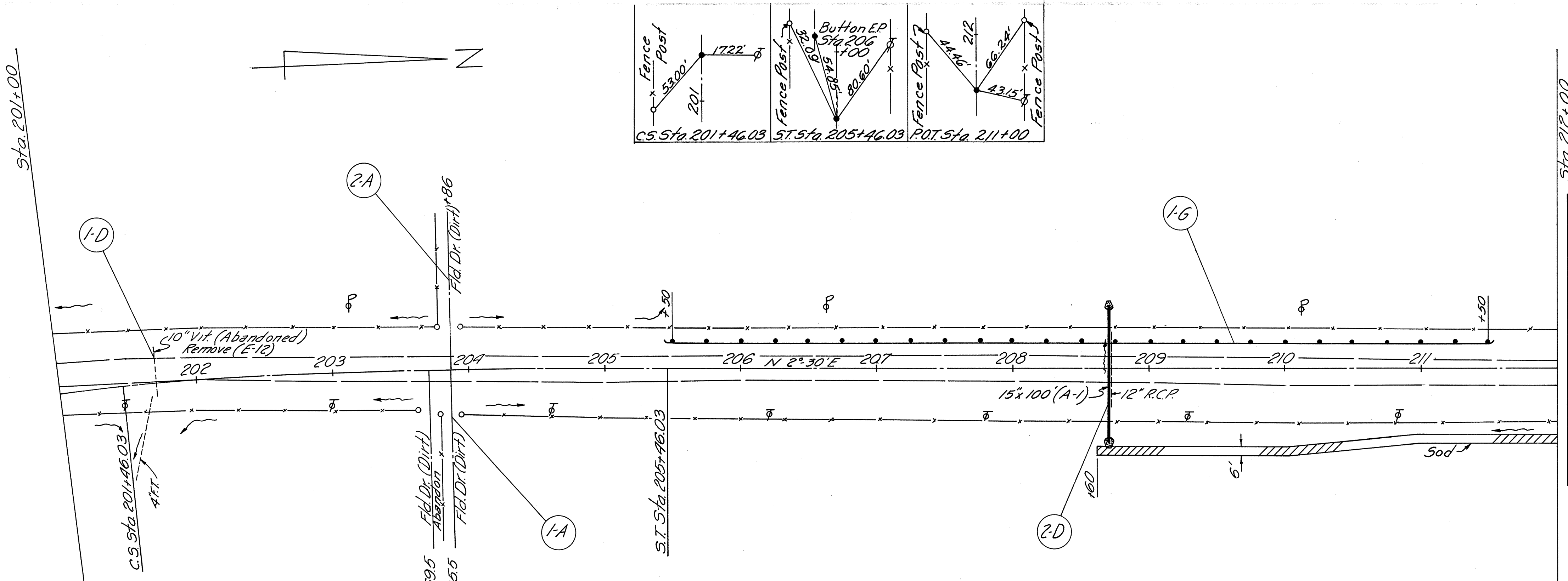
B.M. No. 10 Sta. 199+64
 Spike in Power Pole
 86' Lt. Elev. 1029.24



Excavation 1808
 Embankment 1758
 Emb. +20% 2110

SCANNED
 JUL 27 1999
 ARCHIVE CONSULTING

HARDIN COUNTY
 HAR-69- 2.36
 HAR-67- 2.43

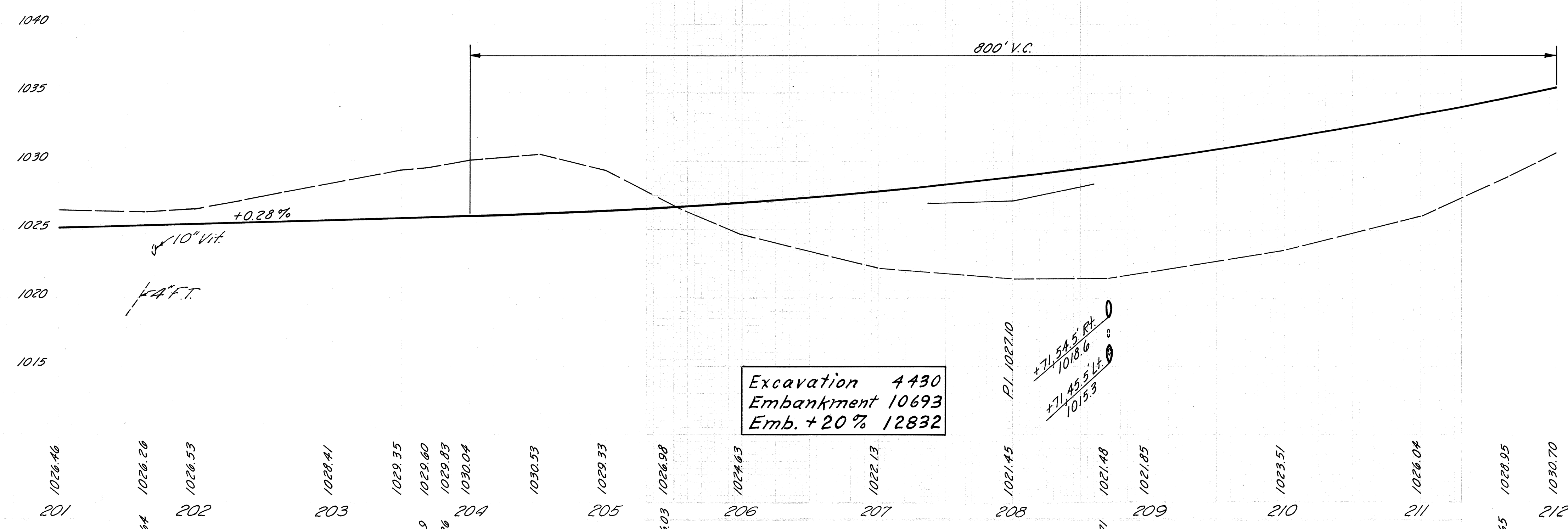


Ref. No.	Station to Station	Side	Remarks	Length	Width	L-10		I-18		I-1	I-10	E-12	I-15
						Sp. Yd.	Sp. Yd.	Stab. Crush. Aggregate Cu. Yd.	Pipe Class A-1 Lin. Ft.	Approp. Sp. Yd.	10" Pipe Rem. Lin. Ft.	Excav. Lin. Ft.	Emb. Lin. Ft.
1-A	203+85.5	RT.	Fld. Dr.	45'	12"			150					
2-A	203+86	LT.	Fld. Dr.	40'	12"			138					
1-D	201+70	LT.	H.A.R.									36	
2-D	208+71	LT.	H.A.R.			227			100	42			
1-G	205+50 to 211+50	LT.											600
Totals						227		288	100	42	36	600	
								29		4			

Begin Sheet
 P.I. Sta. 201+22.70
 $\Delta = 13^\circ 29' RT.$
 $D_c = 3^\circ$
 $L_s = 400'$
 $R_c = 1909.86'$
 $T_s = 426.11'$
 $L_c = 49.44'$
 $E_s = 16.87'$

B.M. No 11 Sta 210+09
 Spike in Power Pole
 39.5 Lf Elev. 102.144

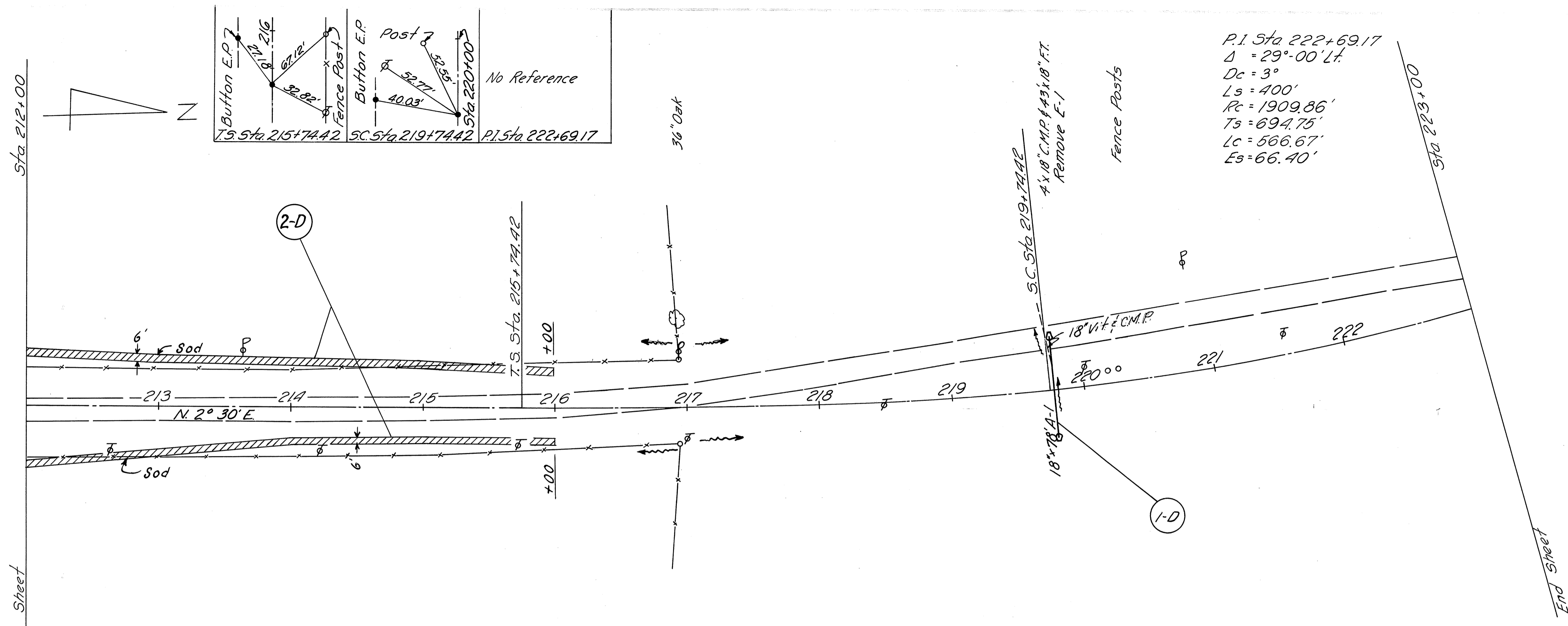
RT. Edge	1024.98	1025.05	1025.12	1025.19	1025.26	1025.33	1025.40	1025.47	1025.54	1025.61	1025.68	1025.75	1025.82	1025.90	1025.99	1026.07	1026.16	1026.25	1026.35	1026.45	1026.55	1026.65	1026.76	1026.88	1027.02	1027.20	1027.38	1027.56	1027.74	1027.92	1028.10	1028.28	1028.46	1028.64	1028.82	1029.00	1029.18	1029.36	1029.54	1029.72	1029.90	1030.08	1030.26	1030.44	1030.62	1030.80	1030.98	1031.16	1031.34	1031.52	1031.70	1031.88	1032.06	1032.24	1032.42	1032.60	1032.78	1032.96	1033.14	1033.32	1033.50	1033.68	1033.86	1034.04	1034.22	1034.40	1034.58	1034.76	1034.94	1035.12	1035.30									
LT. Edge	1024.38	1024.47	1024.52	1024.53	1024.52	1024.51	1024.51	1024.50	1024.49	1024.48	1024.47	1024.46	1024.45	1024.45	1024.45	1024.47	1024.49	1024.51	1024.53	1024.55	1024.59	1024.63	1024.76	1024.88	1025.02	1025.20	1025.38	1025.56	1025.74	1025.92	1026.10	1026.28	1026.46	1026.64	1026.82	1027.00	1027.18	1027.36	1027.54	1027.72	1027.90	1028.08	1028.26	1028.44	1028.62	1028.80	1028.98	1029.16	1029.34	1029.52	1029.70	1029.88	1030.06	1030.24	1030.42	1030.60	1030.78	1030.96	1031.14	1031.32	1031.50	1031.68	1031.86	1032.04	1032.22	1032.40	1032.58	1032.76	1032.94	1033.12	1033.30	1033.48	1033.66	1033.84	1034.02	1034.20	1034.38	1034.56	1034.74	1034.92



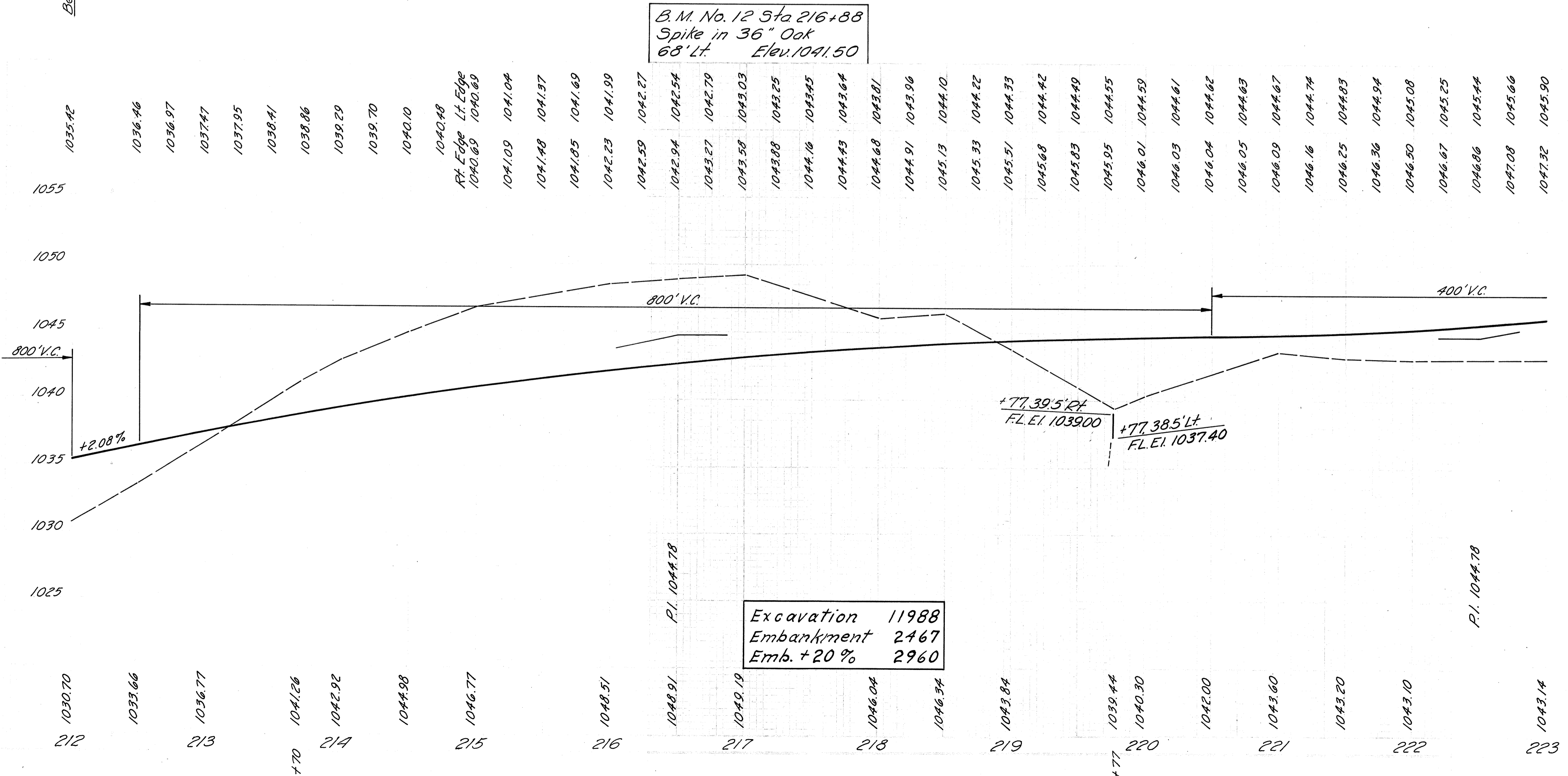
Excavation 4430
 Embankment 10693
 Emb. +20% 12832

HARDIN COUNTY
 HAR-69- 2.36
 HAR-67 2.43

Note: Quantities carried on next sheet.



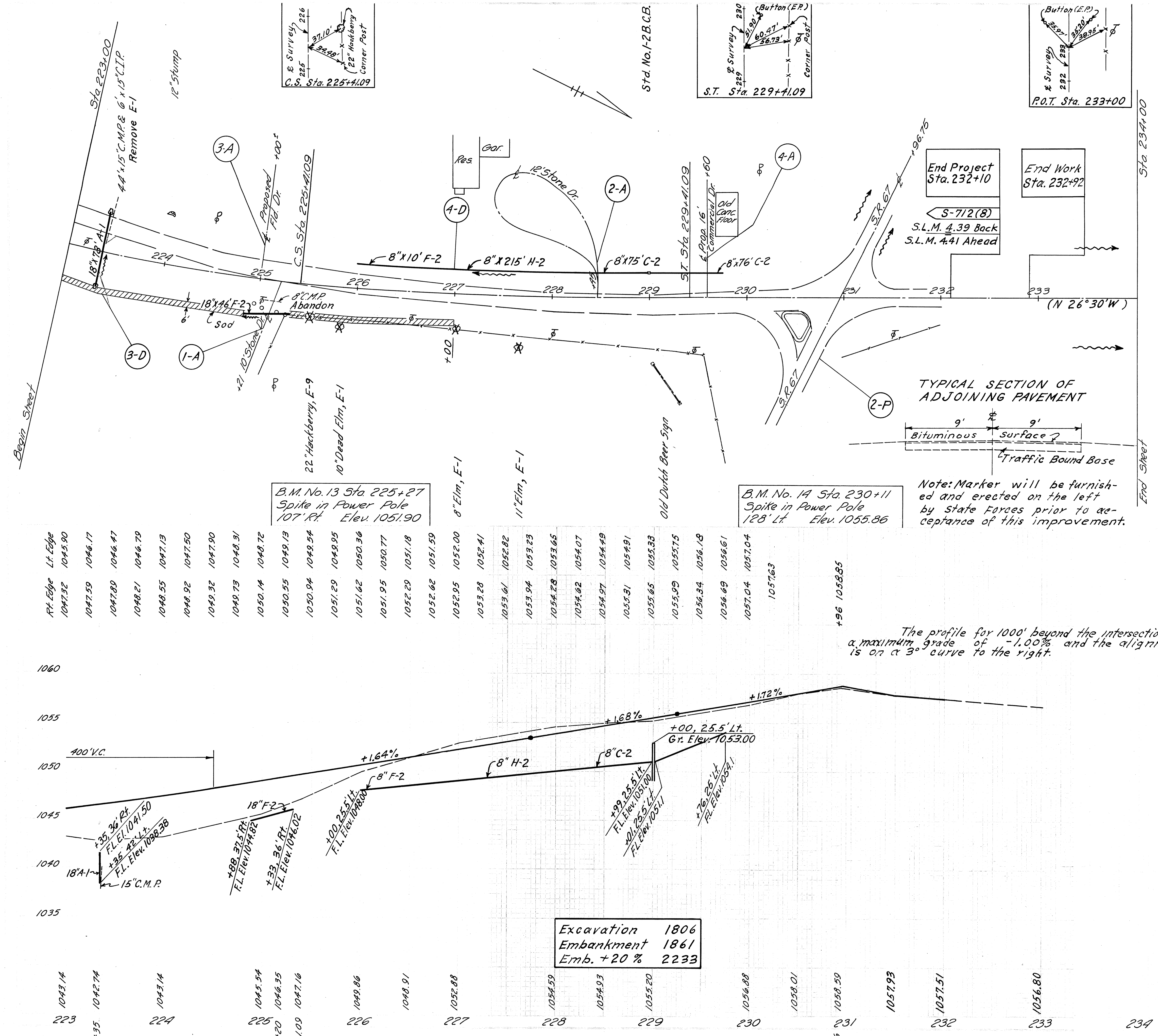
B.M. No. 12 Sta 216+88
 Spike in 36" Oak
 68' Lt. Elev. 1041.50



Sta 212+00 to Sta 223+00

JUL 27 1959
 ARCHIVE CO. 470

HARDIN COUNTY
HAR-69-2.36
HAR-67-2.43



Ref. No.	Station to Station	Side	Remarks	Width Length	QUANTITIES			
					T-35T-30	I-18	I-1	I-8
I-A	225+12	Rt	Field Dr.	12' 70'	2.5	3.5	25	88
2-A	228+45	Lt	Res. Dr.	12' 25'	3.5	25	88	
3-A	223+00	Lt	FLH Dr.	12' 69'				
I-D	219+77	Lt						
2-D	212+00 to 216+00	Lt						
3-D	223+00 to 227+00	Lt						
4-D	226+00 to 229+00	Lt						
4-A	229+60	Lt	Comm. Dr.	16' 25'	4.2	30		
Totals					7.7	55	642	156

E-9 Removal of Trees 1 Each

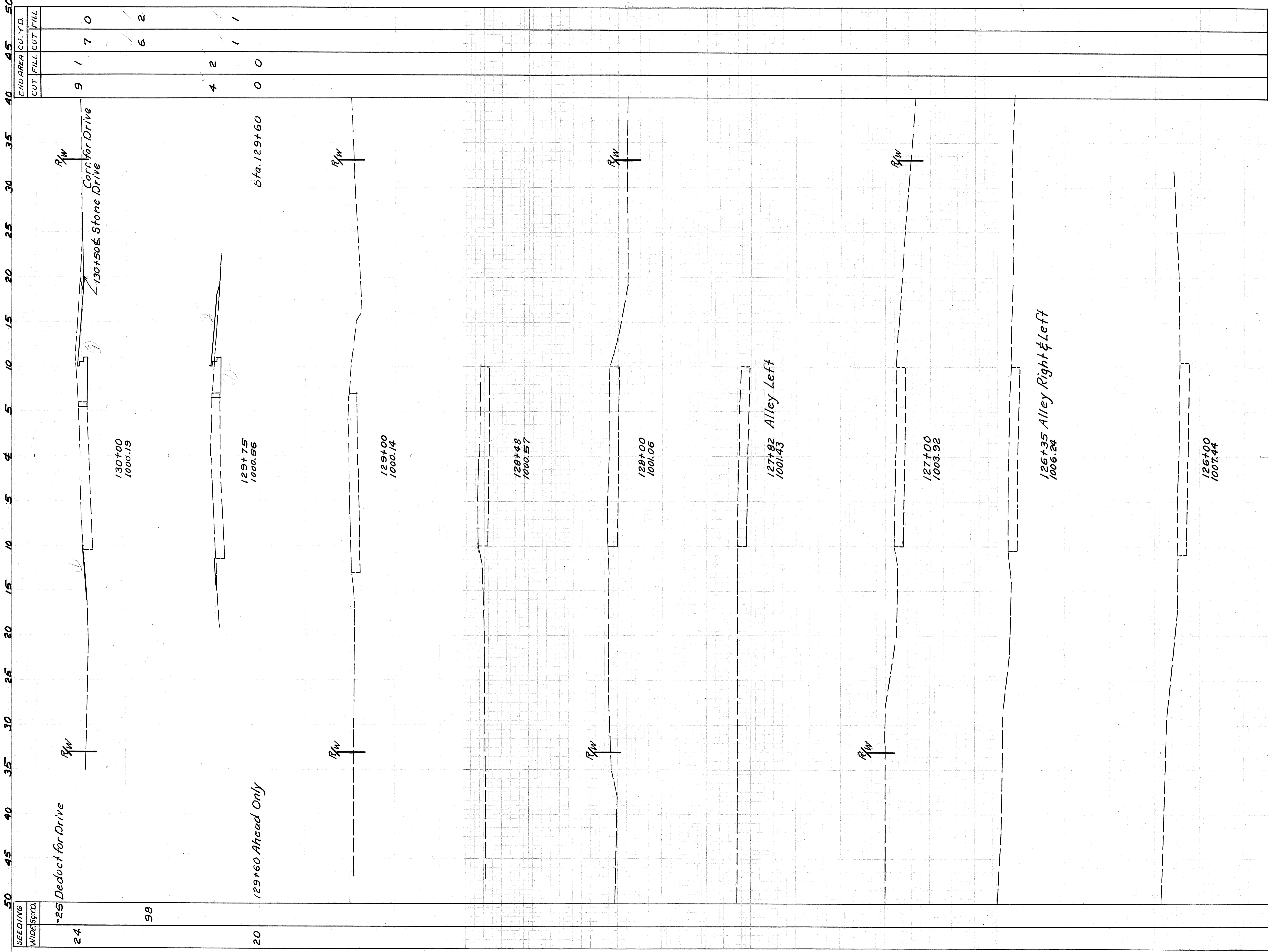
Note: Marker will be furnished and erected on the left by state forces prior to acceptance of this improvement.

The profile for 1000' beyond the intersection is on a maximum grade of -1.00% and the alignment is on a 3° curve to the right.

Excavation	1806
Embankment	1861
Emb. + 20 %	2233

JUL 27 1959

SEALING



HARDIN COUNTY
 HAR-69-2.36
 HAR-67-2.43

SEEDING	24
WIDE SPREAD	98

END AREA	CU. YD.
CUT	FILL
9	1
7	0
6	2
4	2
0	0

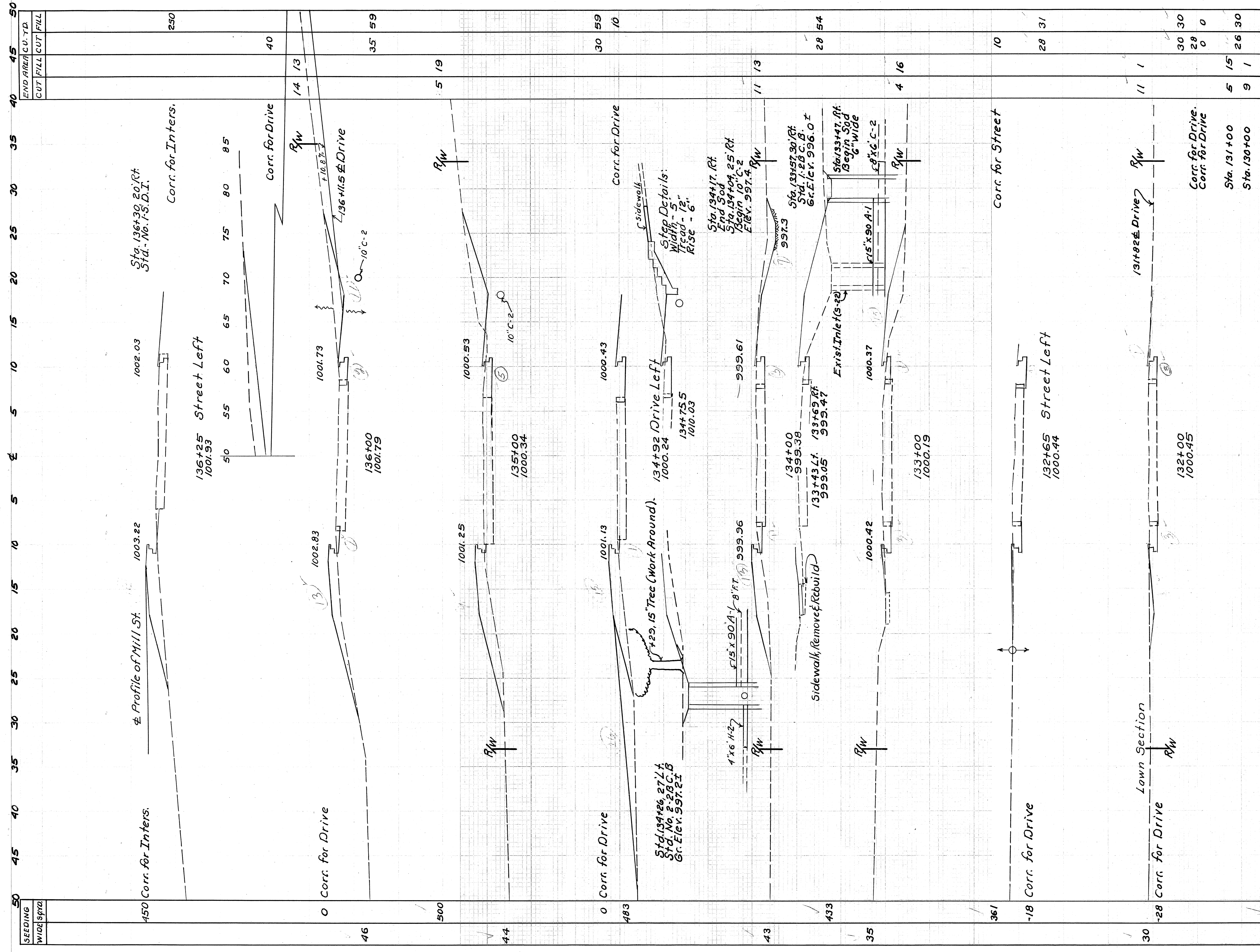
STA. 124+60.8 to STA. 130+00.

124+60.8 ± #117
1008.08

Sta. 124+85, Begin Work & Project
Begin Resurfacing Only

73 Sheet Total

REC'D JUL 27 1959
 HARDIN COUNTY
 017



HARDIN COUNTY
 HAR-69-2.36
 HAR-67-2.43

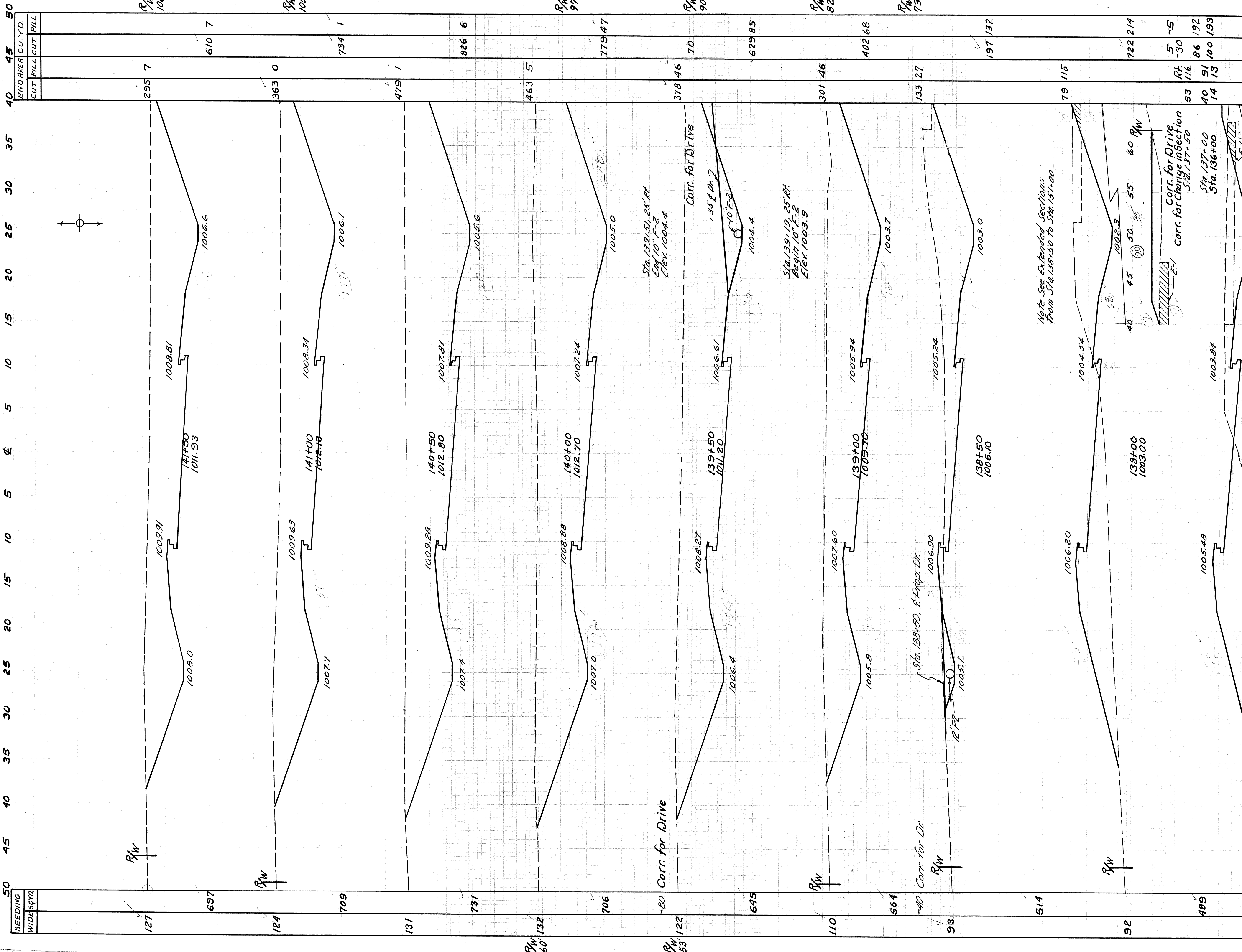
END AREA	CUT	FILL	CUT	FILL	CU	TD
10					45	50
28	31				40	45
11					35	40
5	15				30	35
9					25	30
5	15				20	25
9					15	20
5	15				10	15
9					5	10
5	15				0	5
9					45	50

STA. 131+00 to STA. 136+25

Sheet Total 45 50

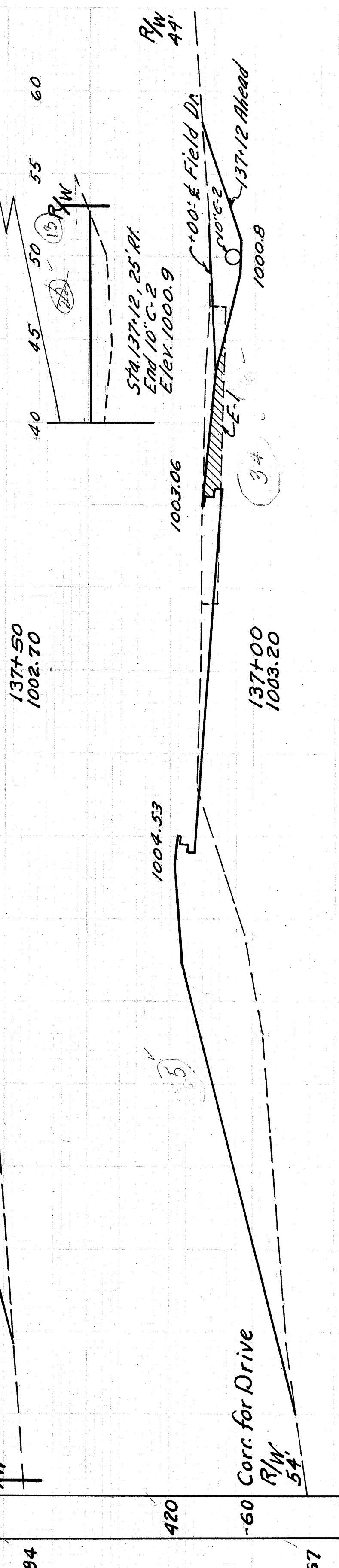
JUL 27 1989

PROJ. NO. 0478018



END AREA CU. YD.	CUT	FILL	CUT	FILL
295	7			
363	0			
479	1			
463	5			
378	46			
463	5			
779	47			
378	46			
301	46			
402	68			
197	32			
79	115			
722	214			
53	116			
40	91			
14	13			

HARDIN COUNTY
HAR-69-2.36
HAR-67-2.43

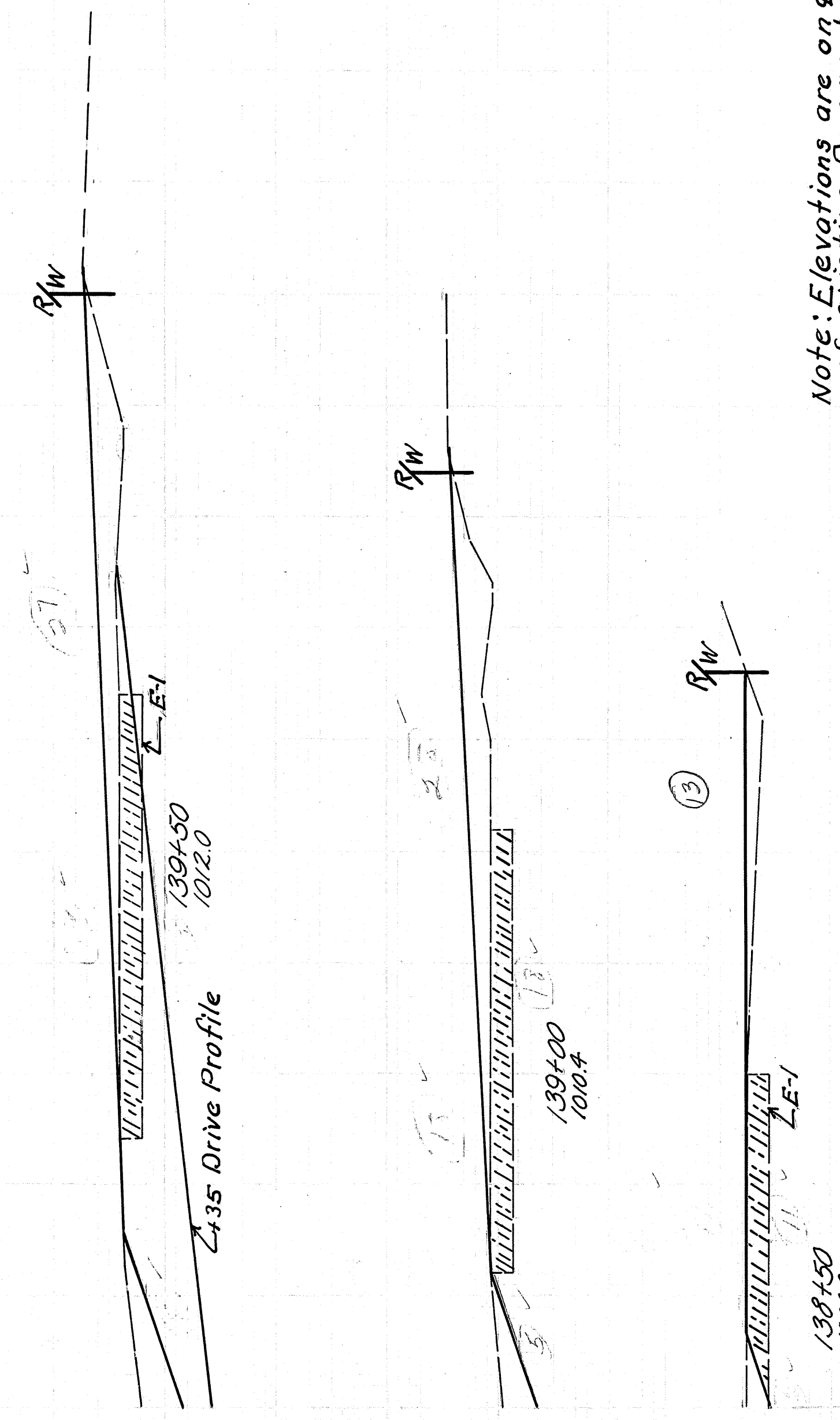
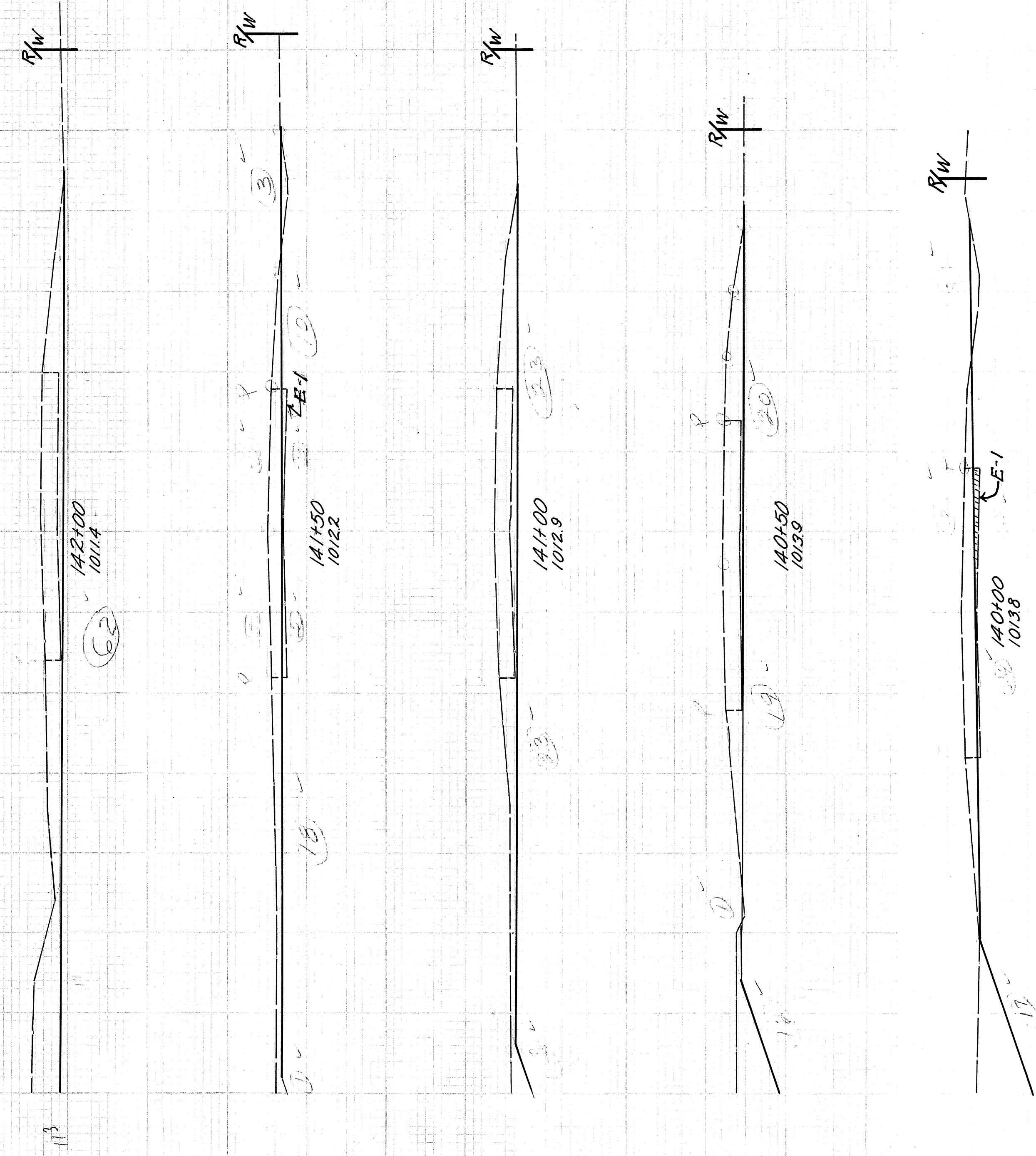


STA. 137+00 to STA. 141+50

SEEDING WIDE SP. 127 697 124 709 131 731 706 132 122 645 110 564 93 514 92 489 84 420 67 314 46 5609

40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130

SCALE
 JUL 27 1959
 HARDIN COUNTY



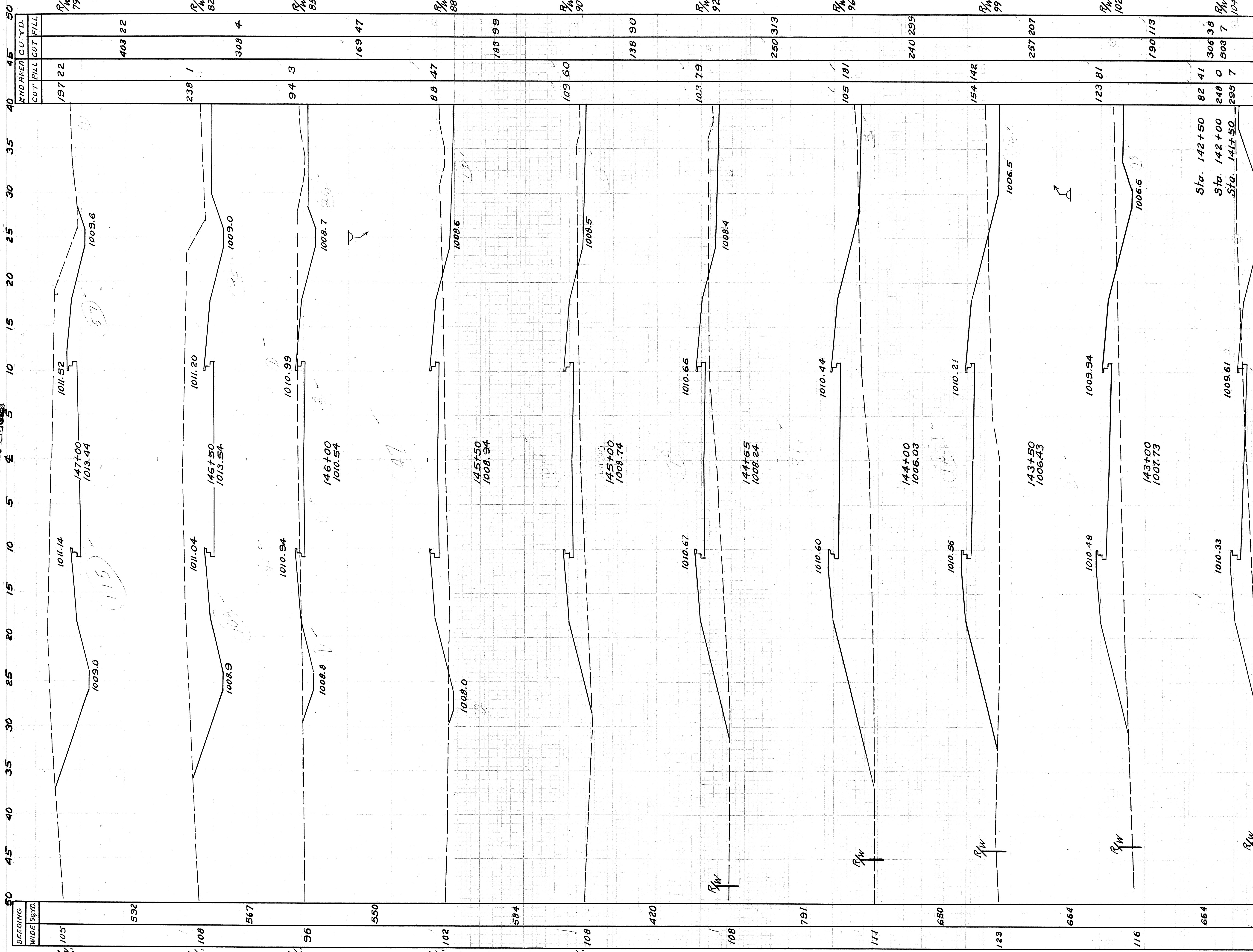
Note: Elevations are on \pm of existing pavement. Quantities are carried on proposed roadway sections.

From Sta. 138+50 to Sta. 143+50

40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130

JUL 27 1959

ADDITIONAL COPY 0.20



END AREA	CUT	FILL	CUT	FILL
197	22	403	22	403
238	1	308	4	308
94	3	169	47	169
88	47	183	99	183
109	60	138	90	138
103	79	250	313	250
105	181	240	299	240
154	142	257	207	257
123	81	190	113	190
82	41	306	38	306
248	0	503	7	503
295	7	104		104

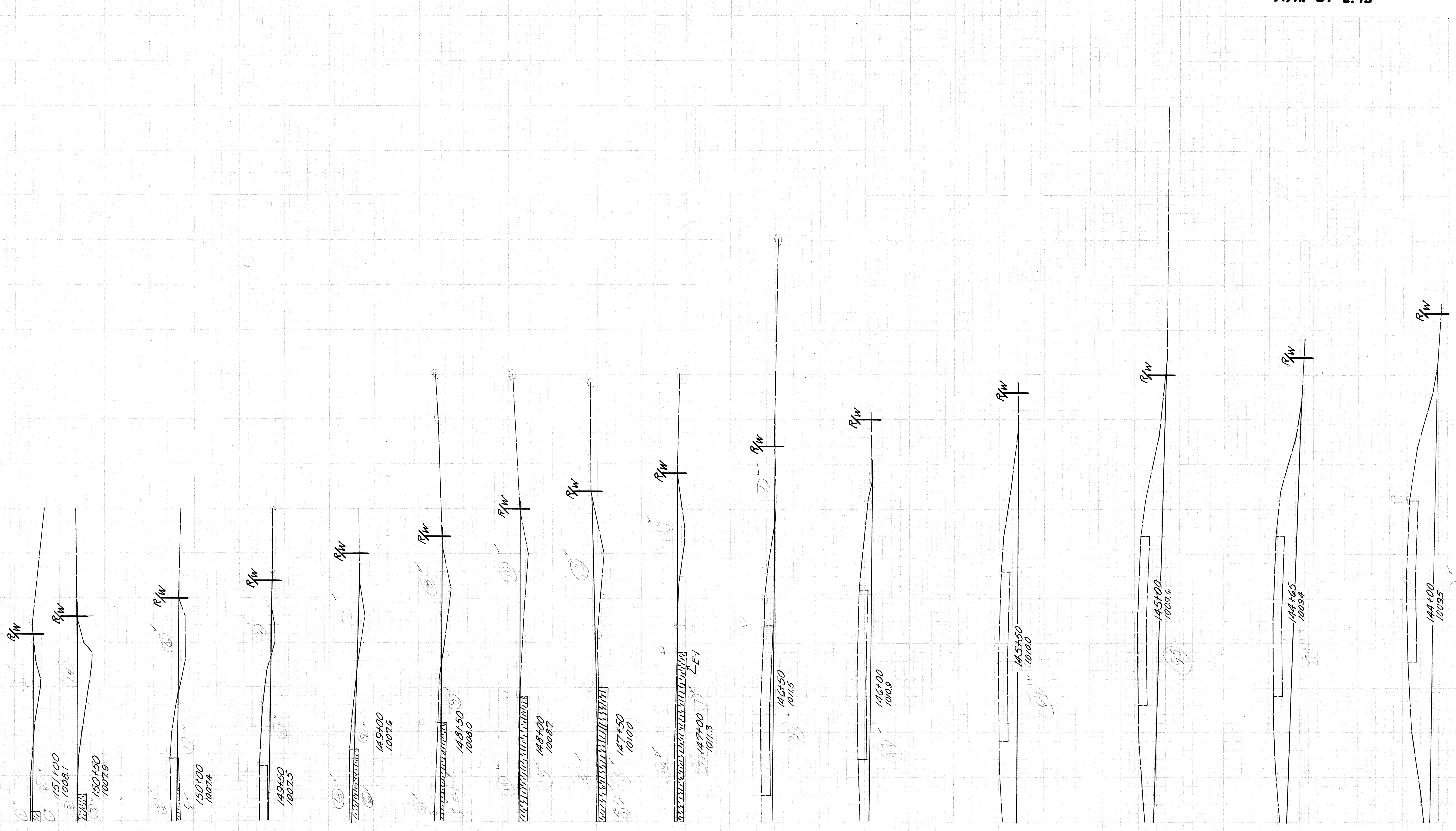
HARDIN COUNTY
HAR-69-2.36
HAR-67-2.43

STA. 142+00 TO STA. 147+00.

68/5
 127
 Sta. 141+50
 Sheet Total

HARDIN COUNTY
HAR-69-2.36
HAR-67-2.43

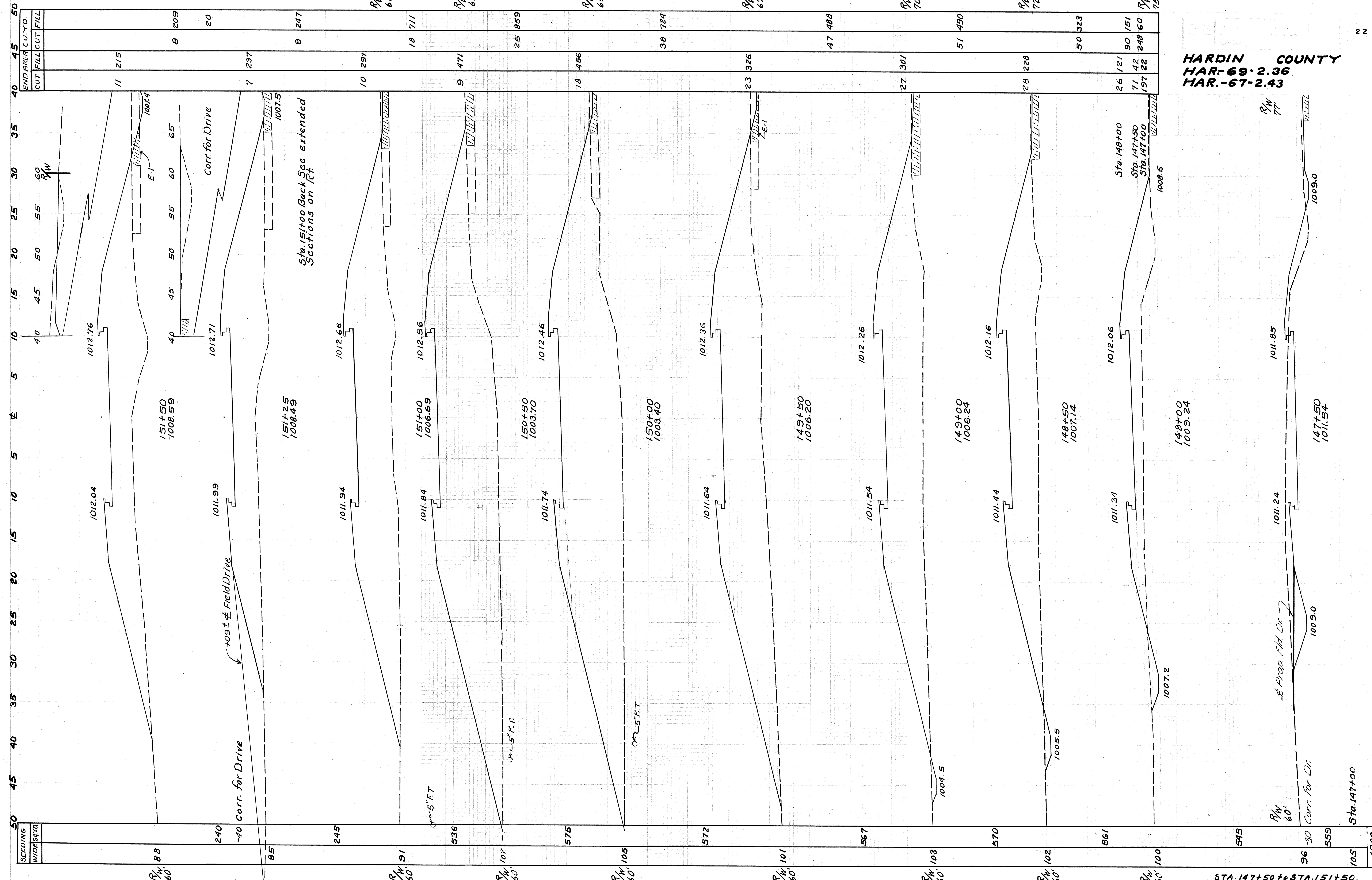
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40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130

JUL 27 1959

HARDIN COUNTY

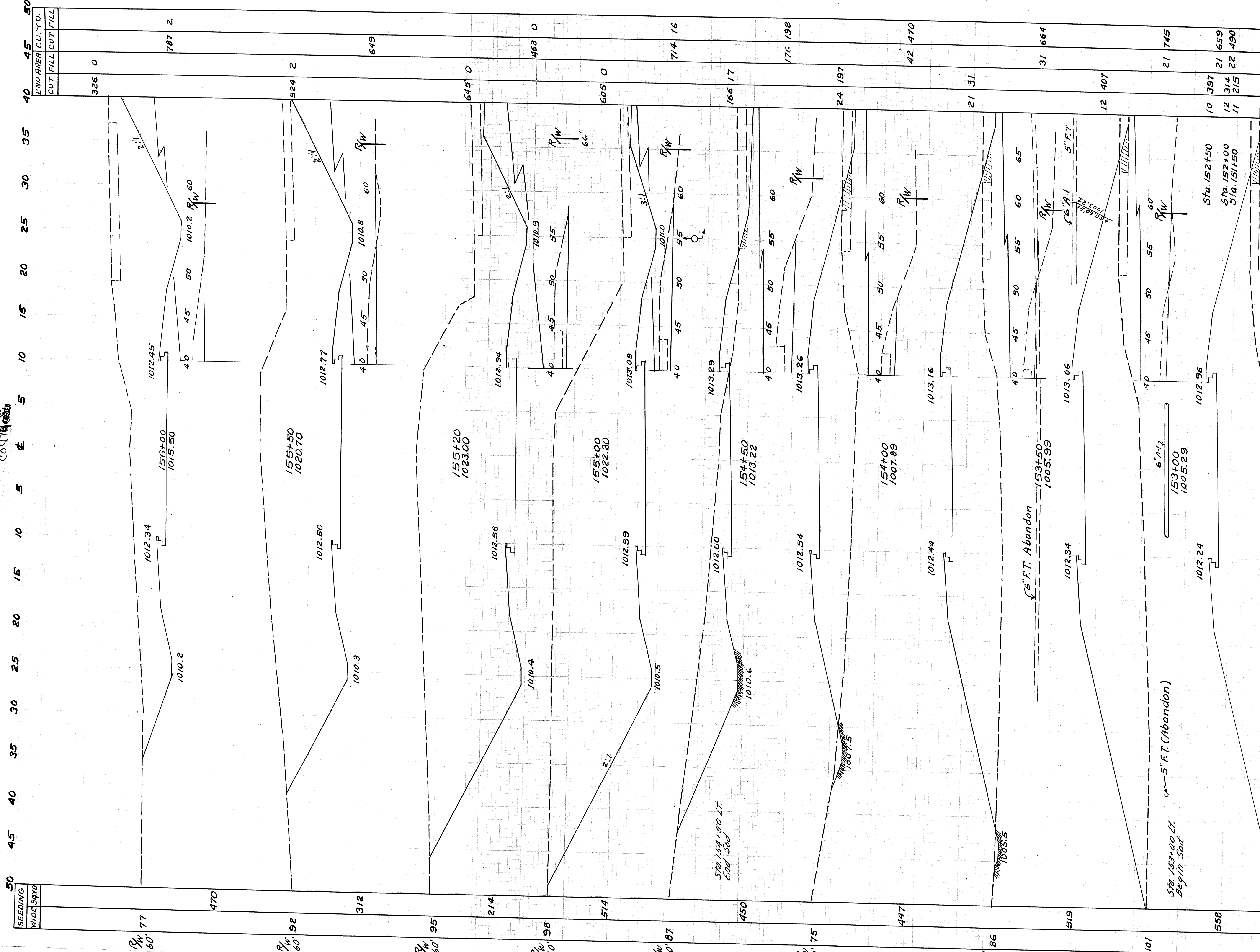


HARDIN COUNTY
HAR-69-2.36
HAR-67-2.43

STA. 147+50 TO STA. 151+50.

JUL 27 1959

LEACH COUNTY



END AREA	CUT	FILL	CUT	FILL	C.U.	Y.D.
	326	0				
			787	2		
			524	2		
			645	0		
			649			
					463	0
					605	0
					714	16
					166	17
					176	198
					24	197
					21	31
					12	407
					21	745
					10	397
					12	314
					11	215
					21	659
					22	490

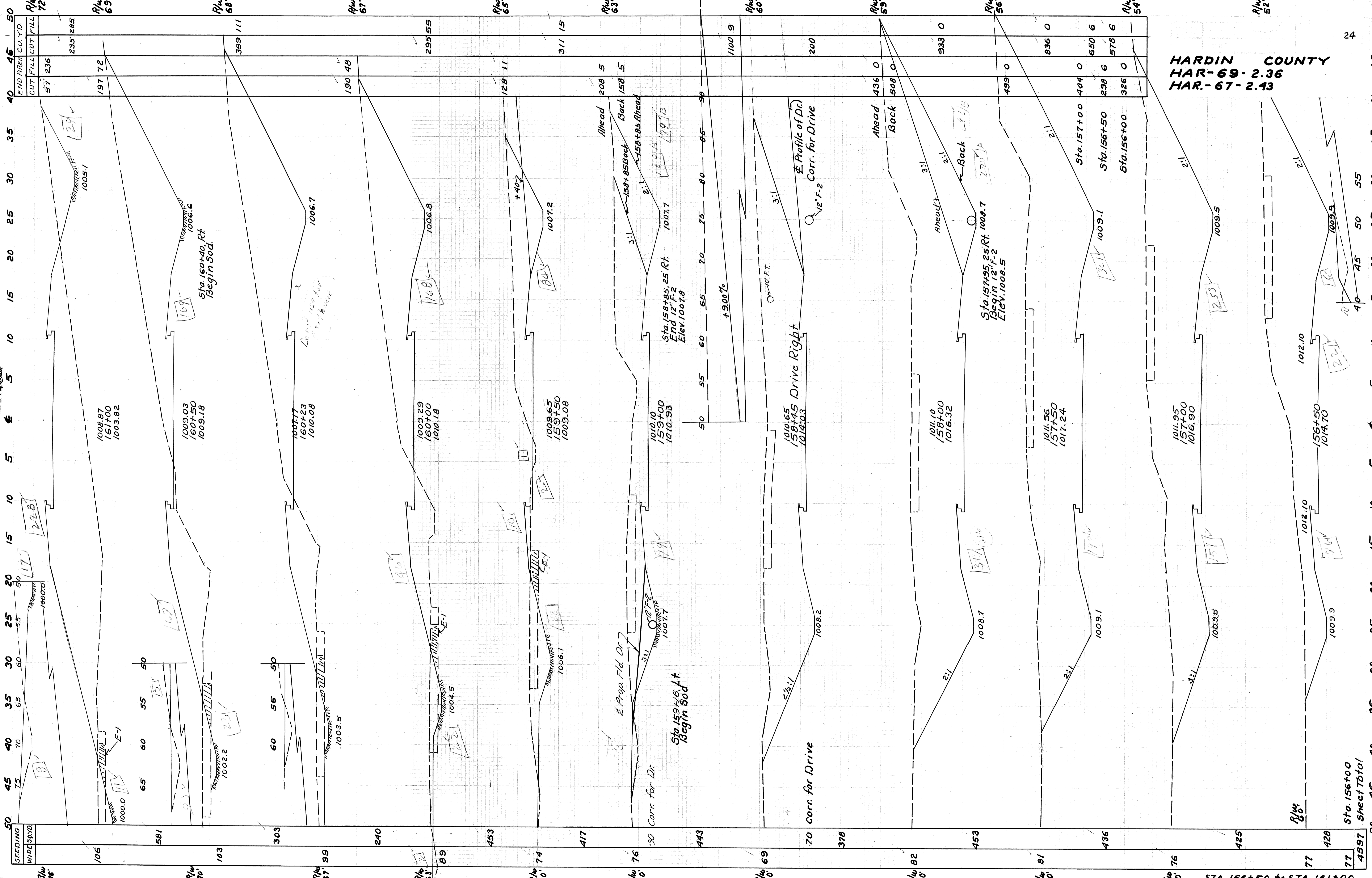
HARDIN COUNTY
HAR-69-2.36
HAR-67-2.43

Sheet Total
4562

JUL 27 1959

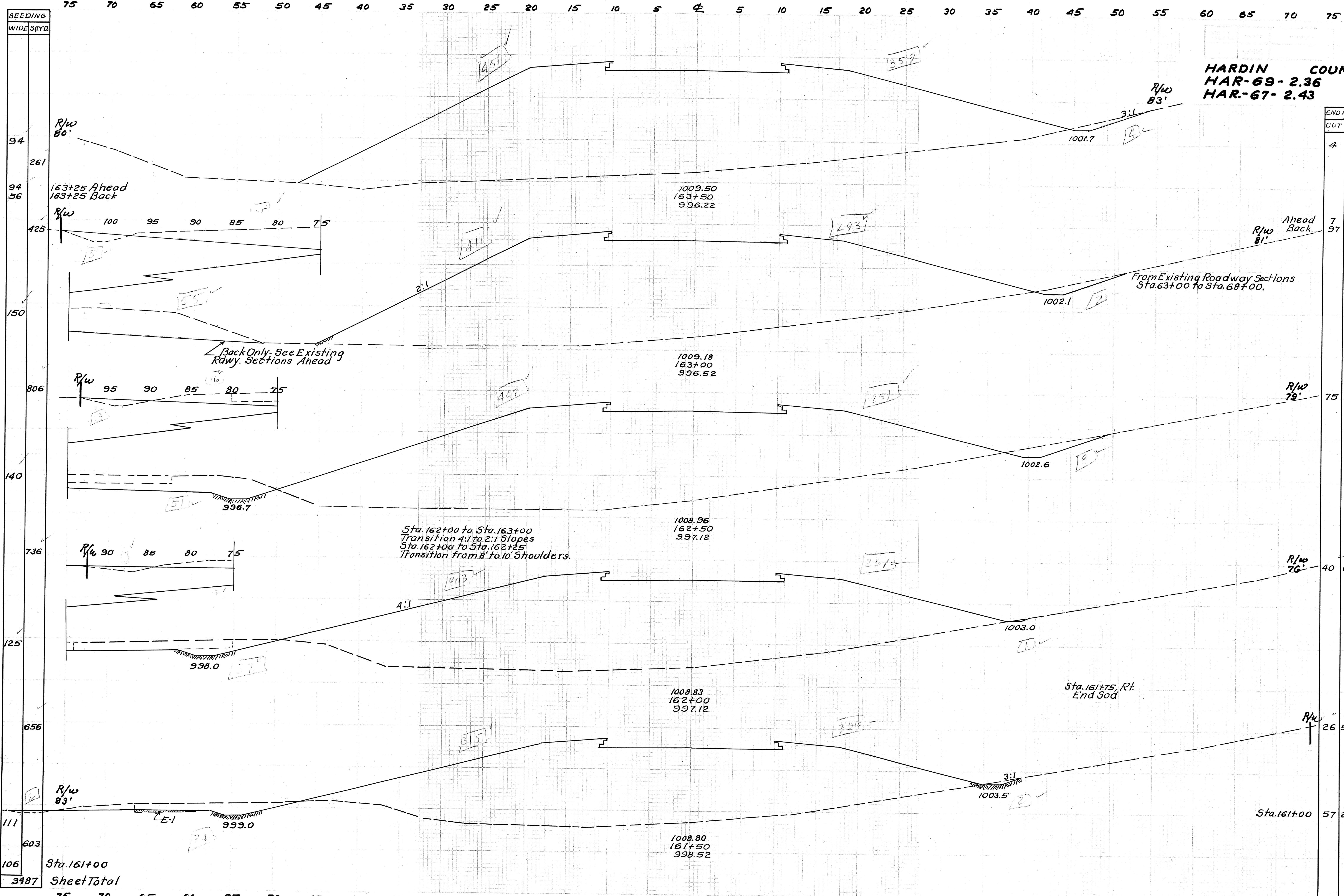
ALBUQUERQUE COUNTY

HARDIN COUNTY HAR-69-2.36 HAR-67-2.43



Sta. 156+00
Sheet Total
4597

HARDIN COUNTY
HAR-69-2.36
HAR-67-2.43

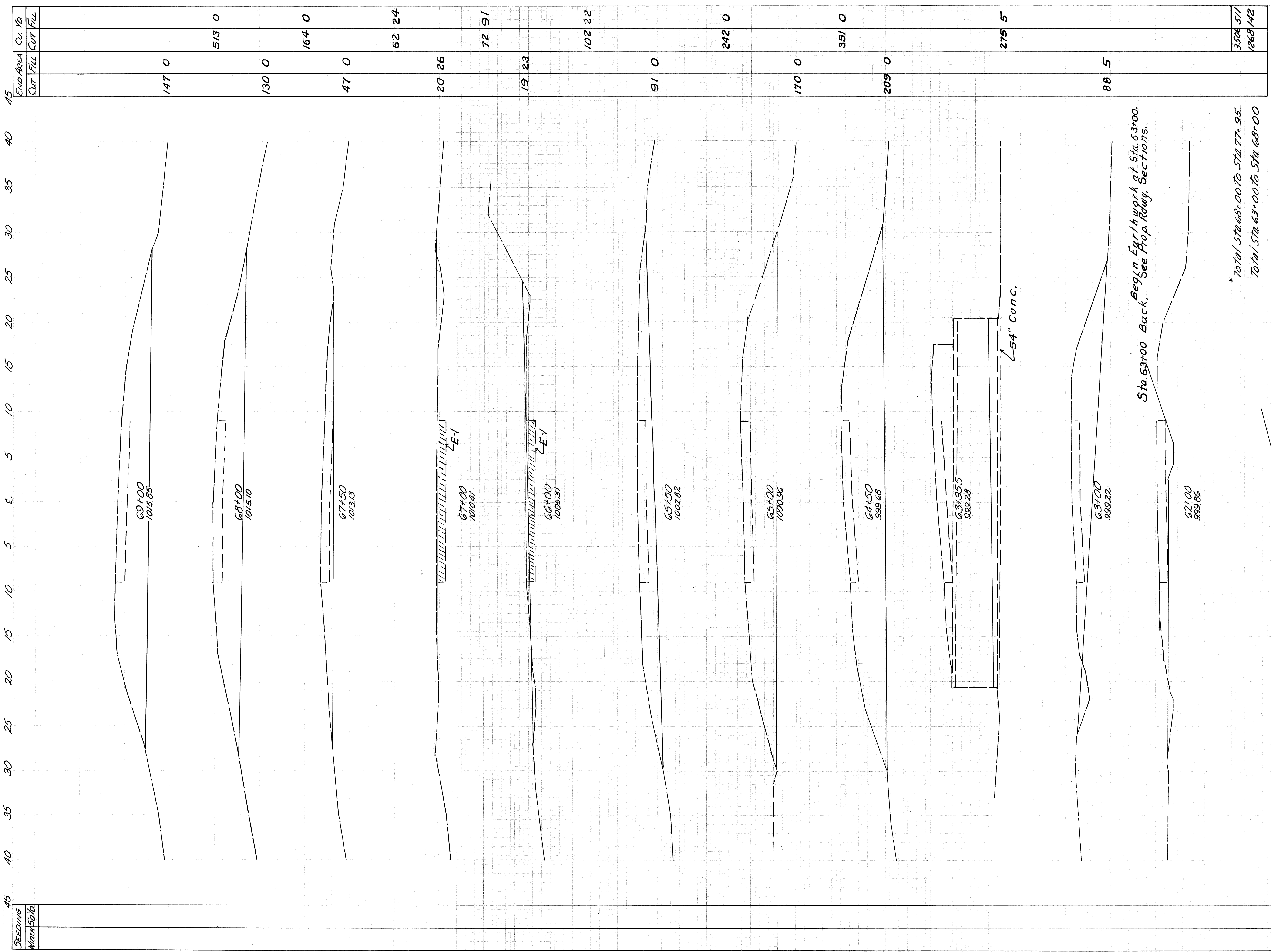


END AREA		C.U. Y.D.	
CUT	FILL	CUT	FILL
4	810		
		10	1402
7	704		
97	709		
		1268	142
		160	1306
		75	701
		107	1267
		40	667
		61	1102
		26	523
		77	703
		57	236

111
603
106
3487
Sta. 161+00
Sheet Total

APR 27 1959
COUNTY ENGINEER

RECEIVED
JUL 27 1959
ARCHIVE 025



End Area	Cu. 16
Cut	Fill
147 0	513 0
130 0	164 0
47 0	62 24
20 26	72 91
19 23	102 22
91 0	242 0
170 0	351 0
209 0	275 5
88 5	3508 511
	1268 142

HARDIN COUNTY
HAR-69-2.36
HAR-67-2.43

Existing Roadway Sections From Sta. 60+00 to Sta. 69+00

* Total Sta. 68+00 to Sta. 77+95
Total Sta. 63+00 to Sta. 68+00

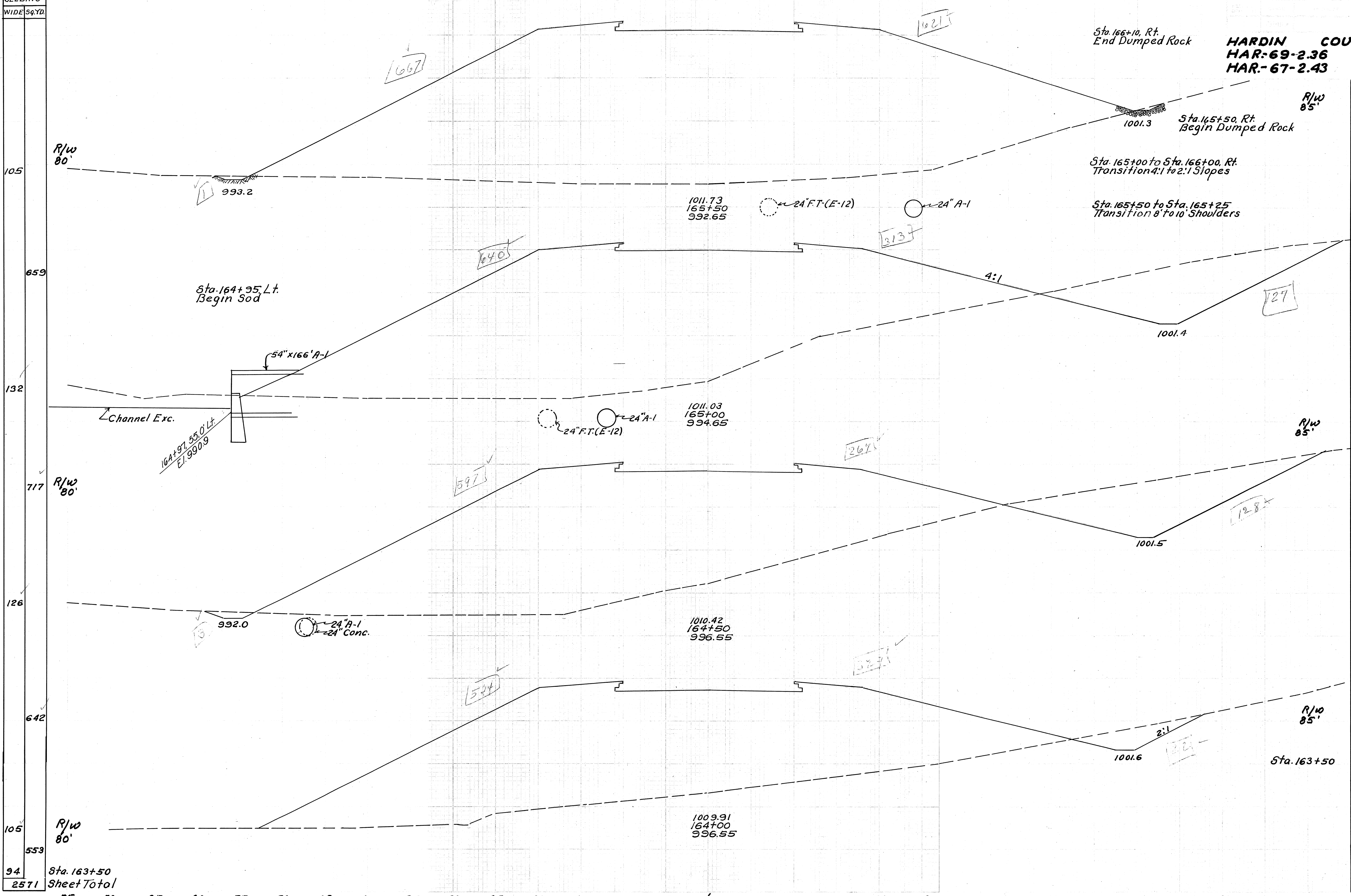
* Totals Carried to Proposed Roadway Sections

Sta. 60+00 on old Roadway
Sta. 160+00 on Proposed Roadway

Sheet total
45

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

HARDIN COUNTY
HAR-69-2.36
HAR-67-2.43



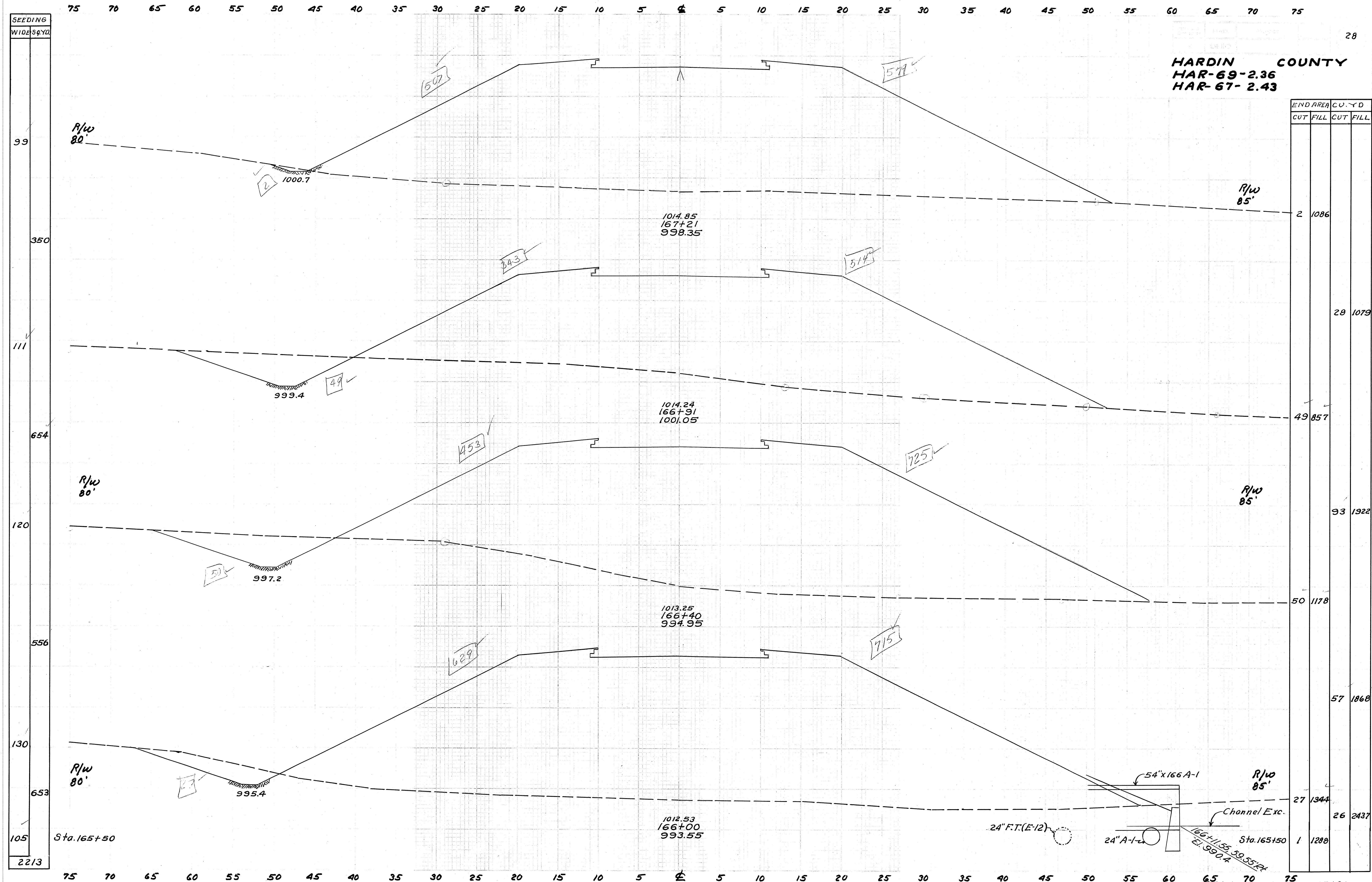
END AREA	C.U. YD	
	CUT	FILL
1	1288	
119	2075	
127	953	
239	1683	
131	864	
142	1590	
22	853	
24	1540	
4	810	

SEEDING WIDE SQ. YD.
 94
 2571
 Sta. 163+50
 Sheet Total

JUL 27 1959
 COUNTY ENGINEER
 HARDIN COUNTY

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75
 STA. 164+00 to STA. 165+50.

HARDIN COUNTY
HAR-69-2.36
HAR-67-2.43



END AREA		CU. YD	
CUT	FILL	CUT	FILL
2	1086		
28	1079		
49	857		
93	1922		
50	1178		
57	1868		
27	1344		
26	2437		
1	1288		

SEEDING
WIDE SQ. YD.

99
350
111
654
120
556
130
653
105

2213

JUL 27 1959
60479 827

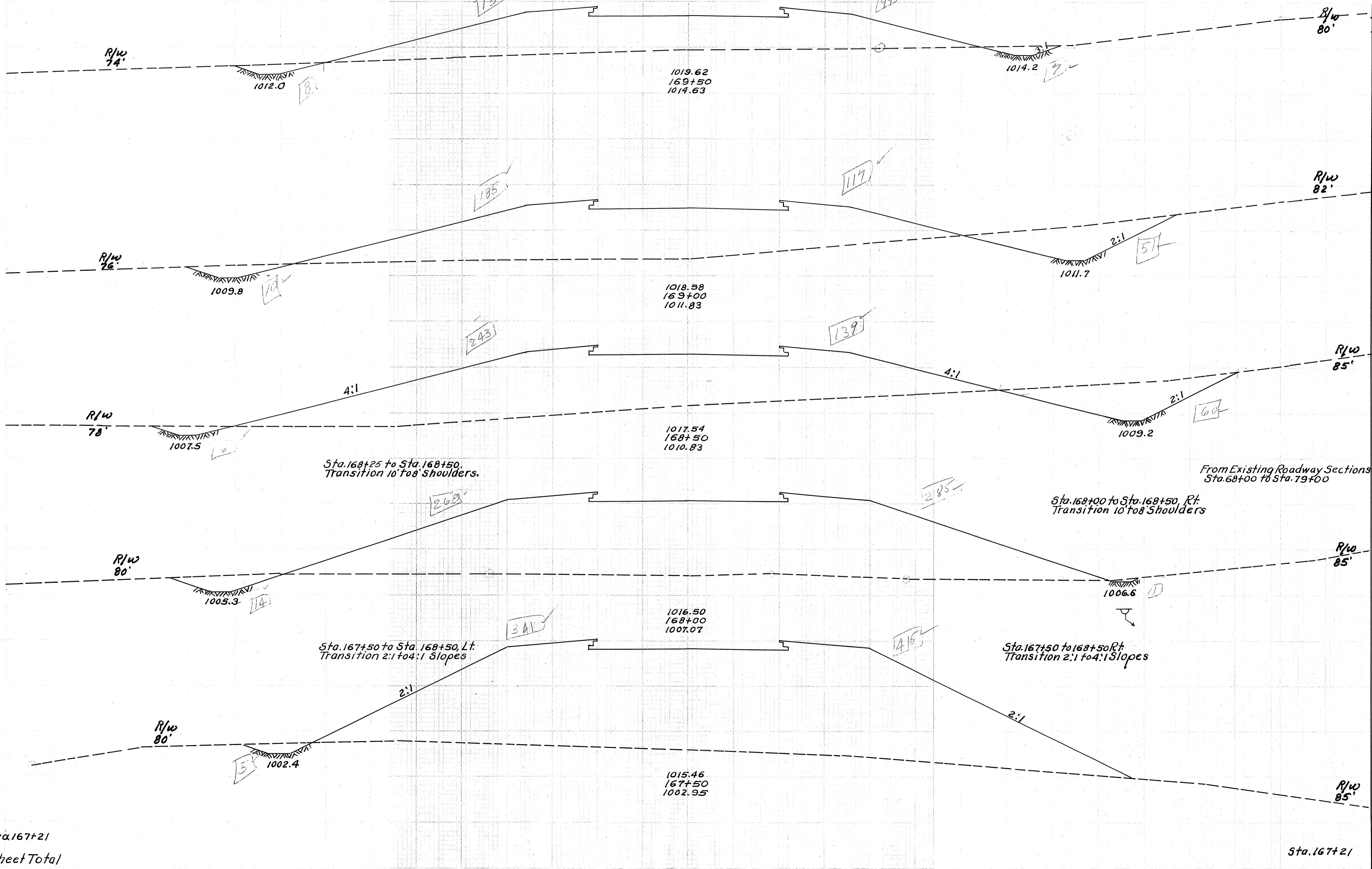
75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

Sta. 165+50 to Sta. 167+21.

HARDIN COUNTY
HAR-69-2.36
HAR-67-2.43

SEEDING
WIDE SP. YD.
81
503
100
586
111
578
97
525
92
308
99
2500

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



END AREA	CU. YD.	
	CUT	FILL
15	229	
		71 492
61	302	
		118 634
66	382	
		75 866
		3506 511
15	553	
		19 1212
5	756	
		4 889
2	1096	

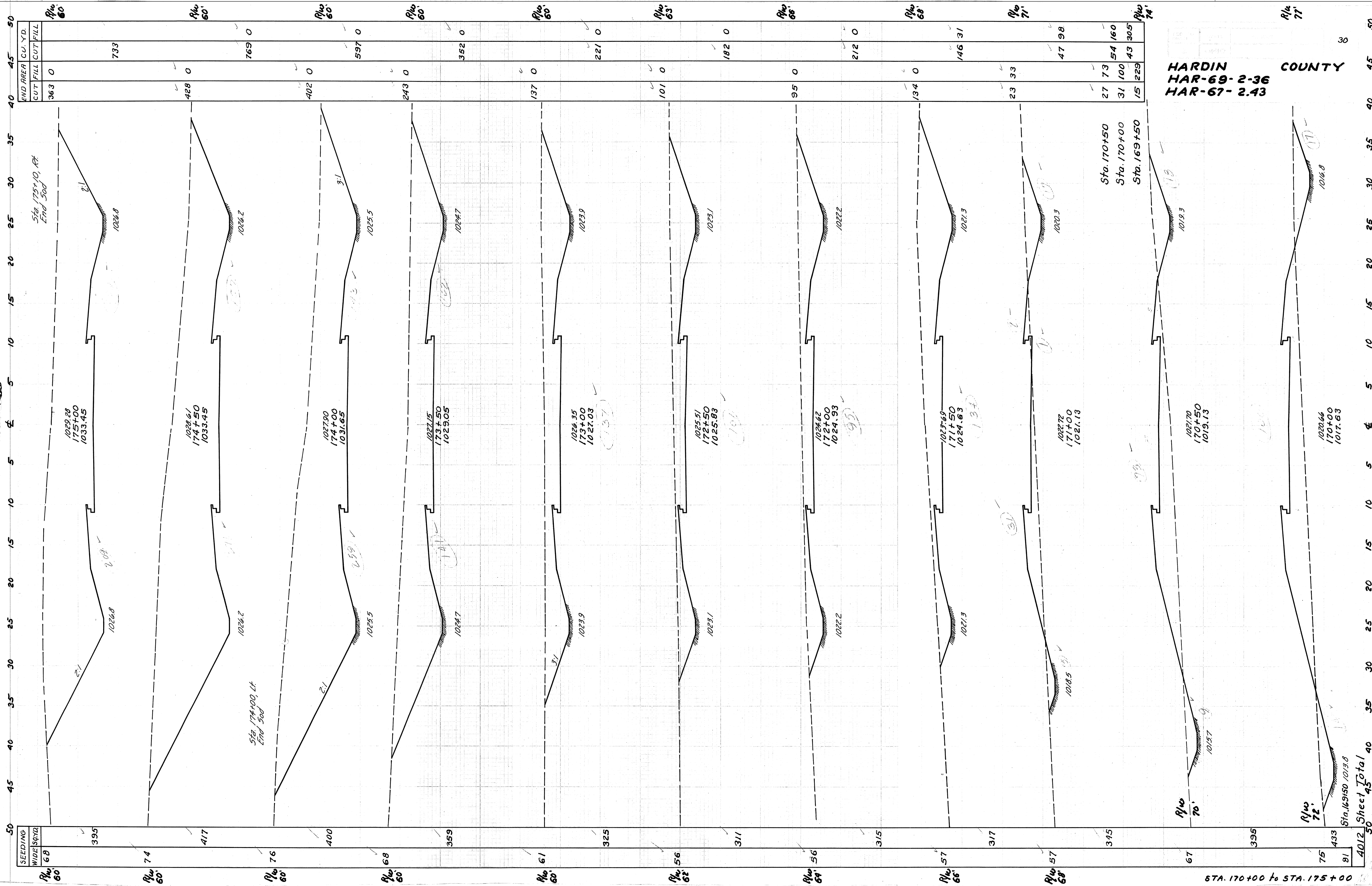
Sta. 167+21
 Sheet Total

Sta. 167+21

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

APR 27 1959

HARDIN COUNTY TEXAS



HARDIN COUNTY
HAR-69-2-36
HAR-67-2.43

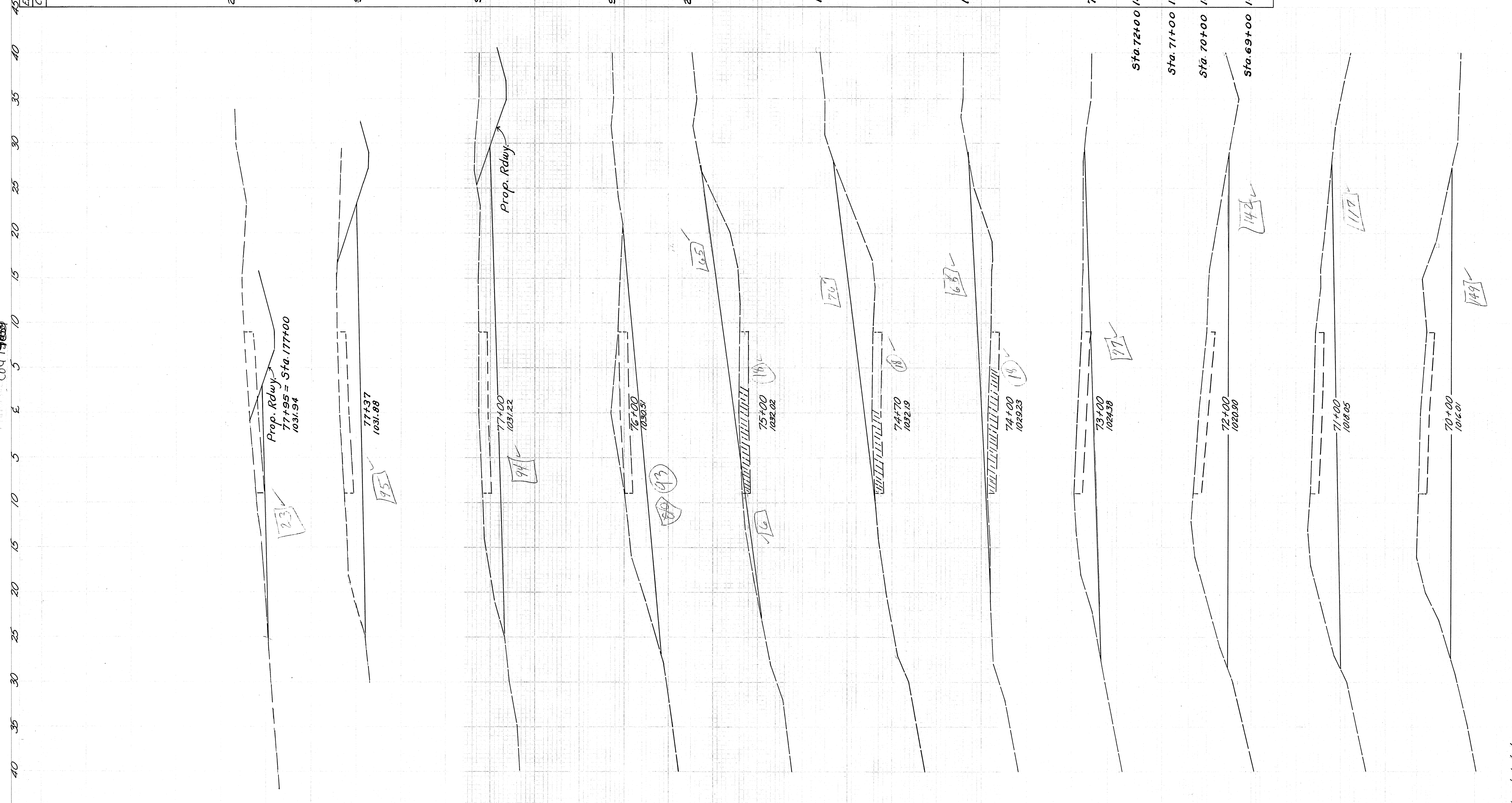
STA. 170+00 to STA. 175+00

4012 Sheet Total

JUL 27 1979
 030
 COCT 1968

END AREA	Cu Yd	
	Cut	Fill
23	0	127
95	0	130
94	0	346
93	0	217
24	65	23
18	76	47
18	68	176
77	0	406
Sta. 72+00	142	480
Sta. 71+00	117	493
Sta. 70+00	149	548
Sta. 69+00	147	0

HARDIN COUNTY
 HAR-69-2.36
 HAR-67-2.43



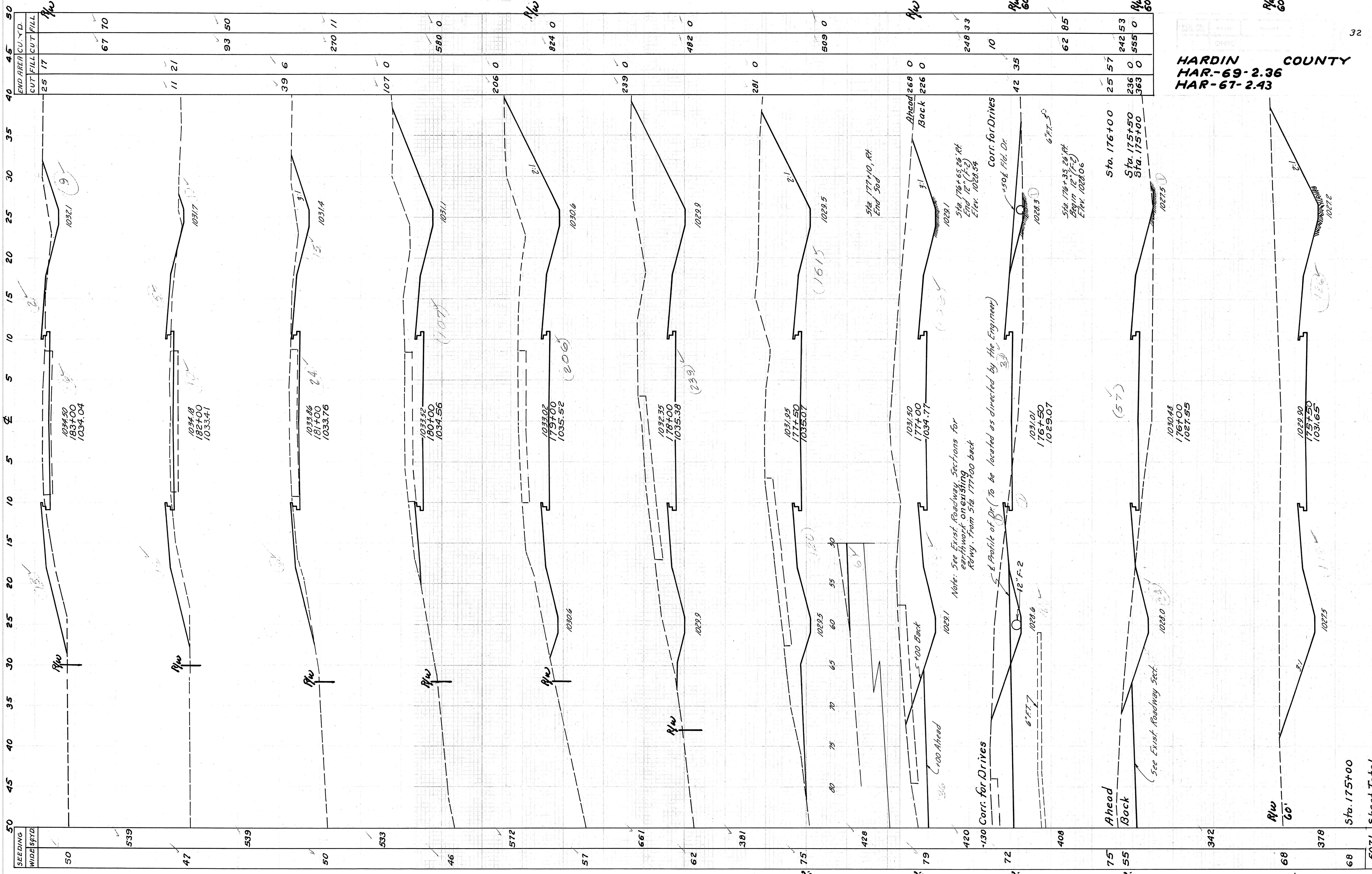
DEODING	WOM	SCALE

From Sta. 70+00 to Sta. 77+00

Sheet total

JUL 27 1959

06474031



SEEDING	WIDESPTD	50	45	40	35	30	25	20	15	10	5	0	5	10	15	20	25	30	35	40	45	50	
50				25																17			
47																				11	21		
50																						93	50
46																							
572																							
57																							
661																							
62																							
381																							
75																							
428																							
79																							
420																							
72																							
408																							
75																							
55																							
342																							
68																							
378																							
68																							
5071																							

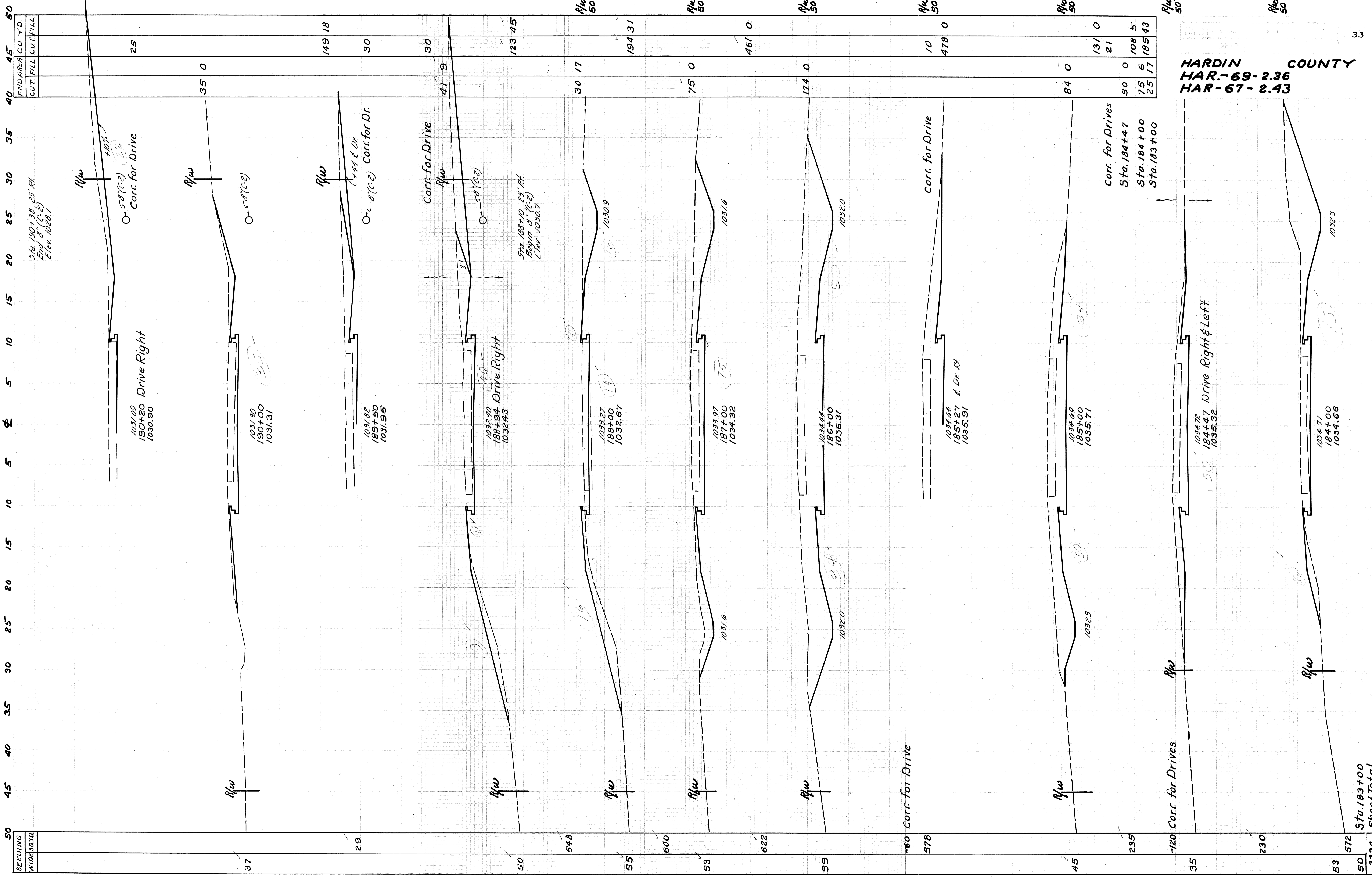
HARDIN COUNTY
 HAR-69-2.36
 HAR-67-2.43

STA. 175+50 to STA. 183+00

Sheet Total
 5071

APR 27 1959

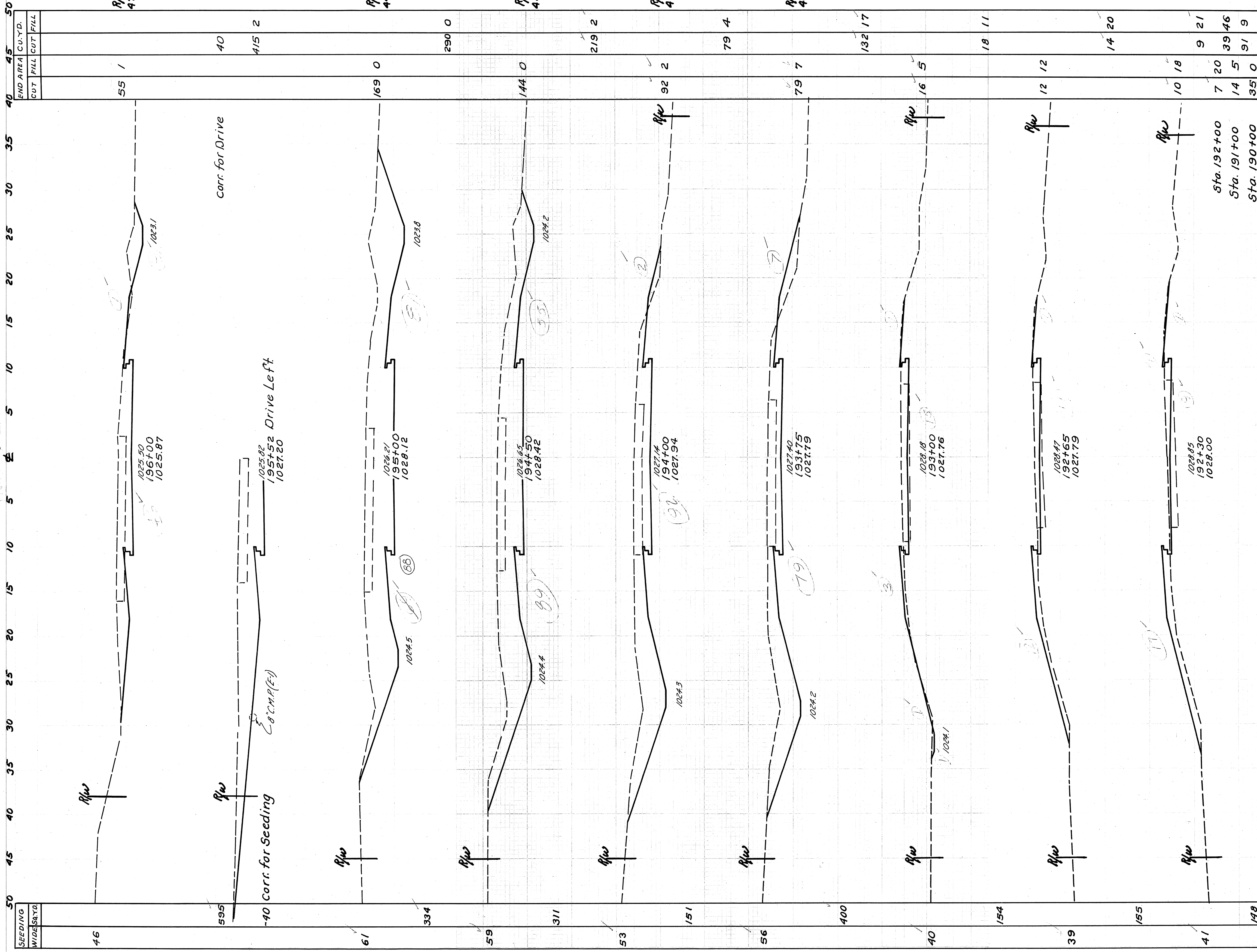
PROJECT NO 0474 033



SEEDING WIDTH 80 TO 50	END AREA CU. YD.	CUT	FILL	CUT/FILL
37	25			
29	149 18			
30	30			
50	123 45			
548				
55	30 17			
600				
53	75 0			
622				
59	461 0			
60 Corr. for Drive				
578	174 0			
45				
235				
-120 Corr. for Drives				
35	84 0			
230				
53				
572				
50	50 0			
3234	75 6			
	108 5			
	25 17			
	131 0			
	21			
	478 0			

HARDIN COUNTY
 HAR-69-2.36
 HAR-67-2.43

NOV 27 1959
 COUNTY ROAD DISTRICT
 0474033



HARDIN COUNTY
HAR-69-2.36
HAR-67-2.43

Sta. 192+00
 Sta. 191+00
 Sta. 190+00

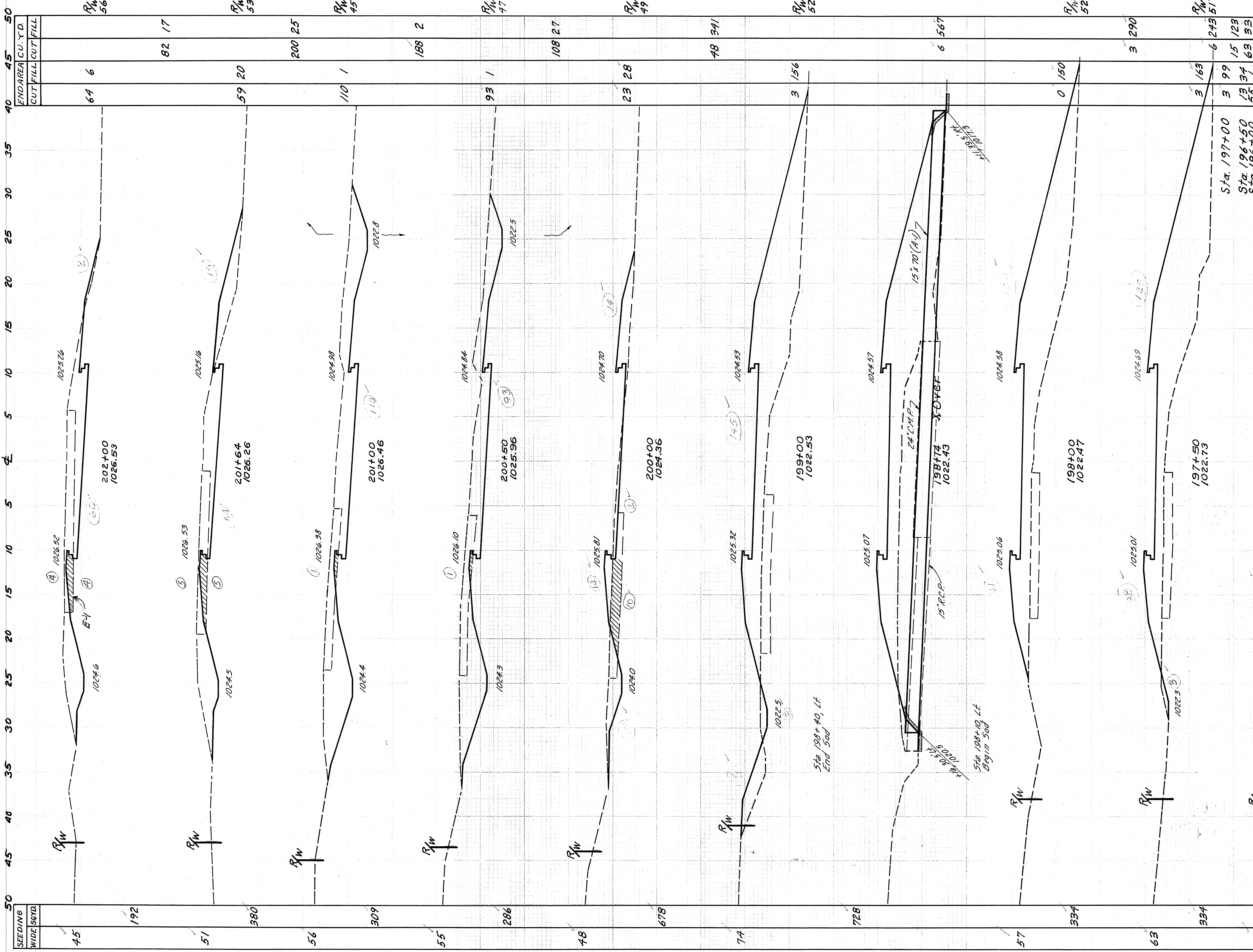
SEEDING WIDE BRD.	END AREA	CUT	FILL	CUT	FILL	CU. YD.
46	55	1				
595	40					
-40	415	2				
61	169	0				
334	290	0				
59	144	0				
311	219	2				
53	92	2				
151	79	4				
56	79	7				
400	132	17				
40	16	5				
154	18	11				
39	12	12				
155	10	18				
41	7	20				
148	14	5				
48	35	0				
494	9	21				
41	39	46				
37	14	5				
3135	35	0				

STA. 191+00 TO STA. 196+00.

Sta. 190+00
 Sheet Total

APR 27 1959

CO474034



SEEDING WIDE 5670	STATION	PROPOSED ELEVATION	GROUND ELEVATION	CUT	FILL	CUMULATIVE CUT	CUMULATIVE FILL	RIGHT-OF-WAY (R/W)
45	192	1025.26	1024.6	0	0	0	0	56'
51	380	1025.16	1024.5	0	0	0	0	53'
56	309	1024.98	1024.4	0	0	0	0	45'
55	286	1024.84	1024.3	0	0	0	0	47'
48	678	1024.70	1024.0	0	0	0	0	49'
74	199+00	1024.53	1022.5	3	156	3	156	52'
728	198+74	1024.57	1022.43	3	156	6	312	52'
57	334	1024.58	1022.47	0	150	3	262	52'
63	197+50	1024.60	1022.73	3	163	6	425	51'
334	197+00	1024.85	1023.15	3	99	9	524	51'
57	197+00	1024.85	1023.0	3	99	12	623	51'
292	197+00	1025.01	1023.15	3	99	15	722	51'
48	196+50	1025.07	1024.31	3	99	18	821	48'
261	196+50	1025.12	1024.31	3	99	21	920	48'
46	196+50	1025.12	1024.31	3	99	24	1019	48'
3794	Sheet total			64	6	70	6	

HARDIN COUNTY
 HAR-69-2.36
 HAR-67-2.43

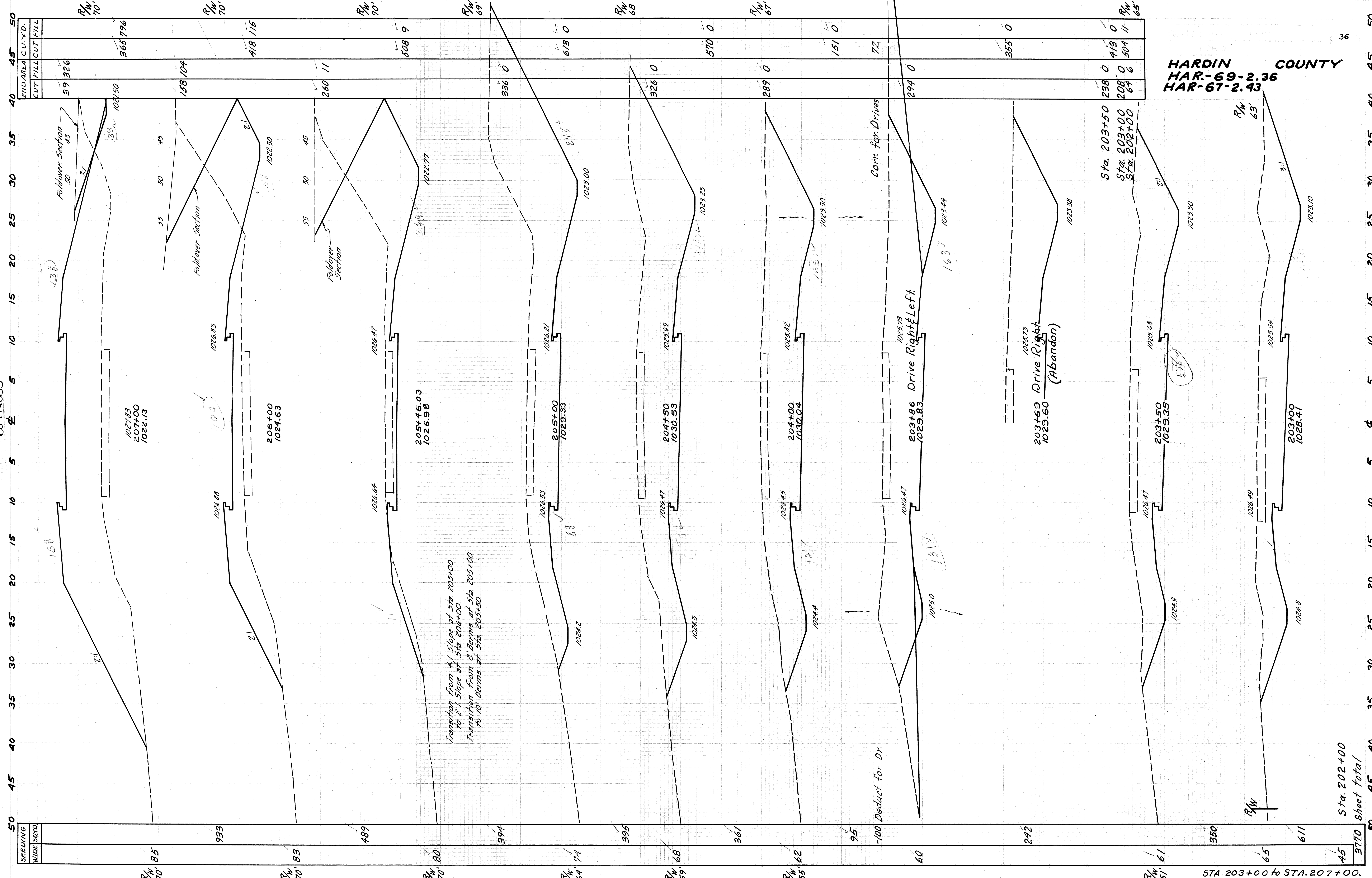
Sta 196+00

Sheet total

3794

STA. 196+50 TO STA. 202+00.

JUL 27 1959
 0474035



HARDIN COUNTY
HAR-69-2.36
HAR-67-2.43

SEEDING WIDE SQ.YD.
933
489
394
395
361
95
60
242
350
65
611
45
3770

STA. 203+00 to STA. 207+00.

Sta. 202+00
 Sheet total

Sta. 203+50
 Sta. 203+00
 Sta. 202+00

203+69 Drive Right
 1029.60
 (Abandon)

203+86 Drive Right & Left
 1029.83

-100 Deduct for Dr.

Corr. for Drives

Transition from 4:1 Slope at Sta. 205+00
 to 2:1 Slope at Sta. 206+00
 Transition from 8' Berms at Sta. 205+00
 to 10' Berms at Sta. 205+50

Foldover Section

Foldover Section

Foldover Section

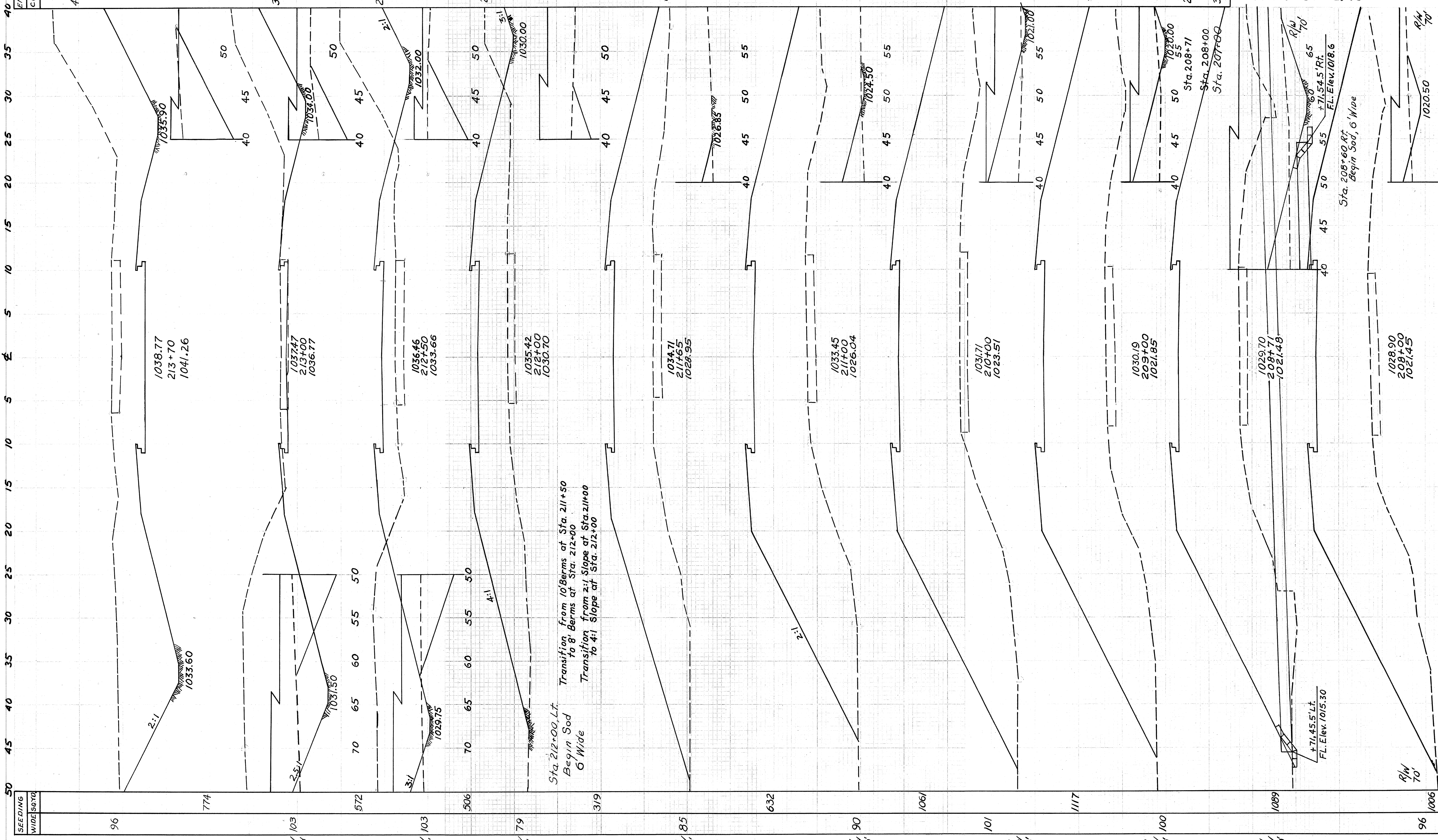
END AREA	C.U. Y.D.
39 326	
265 796	
158 104	
418 115	
508 9	
336 0	
613 0	
326 0	
570 0	
289 0	
151 0	
72	
294 0	
355 0	
238 0	
413 0	
208 0	
504 11	

9/27/69

CO474636

SEEDING WIDE SOFT	CUT FILL	CUT FILL	CUT FILL	CUT FILL
96	444	0		
103	354	1		
103	229	82		
506	27	244		
79	0	385		
85	1	527		
90	4	269		
101	9	2324		
100	4	611		
96	24	611	43	1495
85	9	523	89	1572

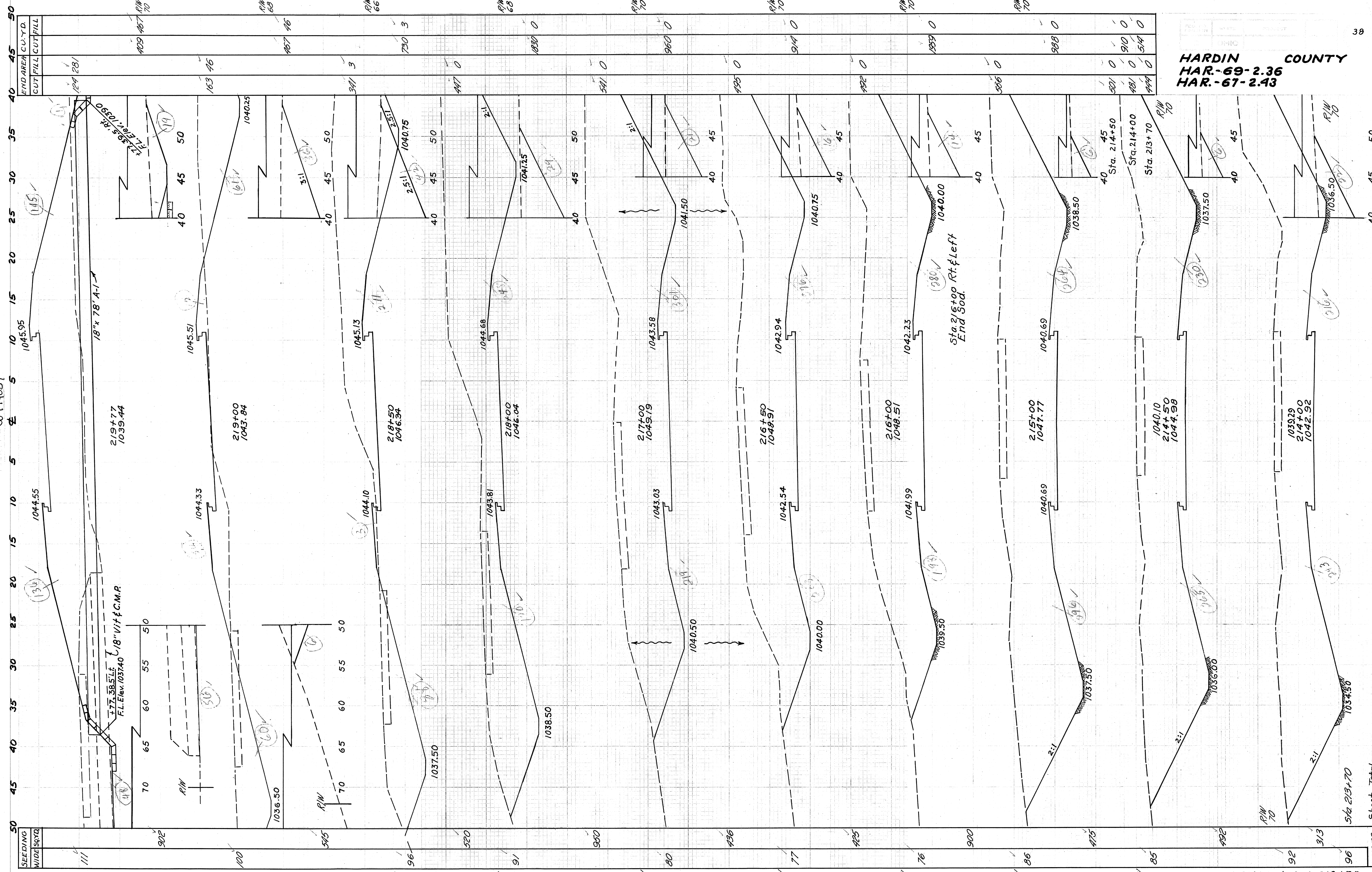
HARDIN COUNTY
 HAR-69-2.36
 HAR-67-2.43



SEEDING WIDE SOFT	CUT FILL	CUT FILL	CUT FILL	CUT FILL
96	444	0		
103	354	1		
103	229	82		
506	27	244		
79	0	385		
85	1	527		
90	4	269		
101	9	2324		
100	4	611		
96	24	611	43	1495
85	9	523	89	1572

Sta. 207+00
 1076 Sheet Total

DATE 2-7-89
PROJECT 00474037



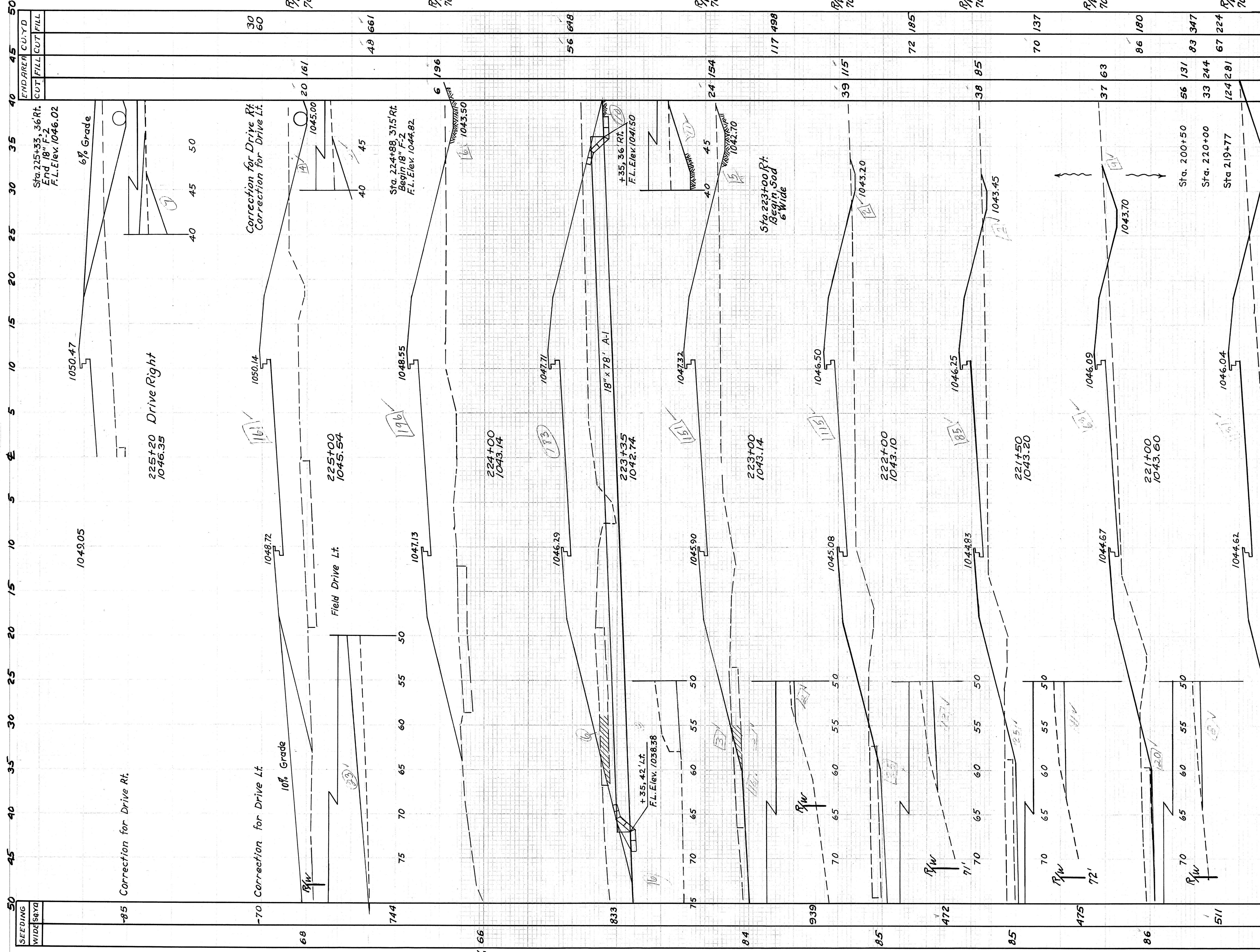
HARDIN COUNTY
HAR-69-2.36
HAR-67-2.43

STA. 214+00 to STA. 219+77

Sheet Total

APR 27 1959

06474038



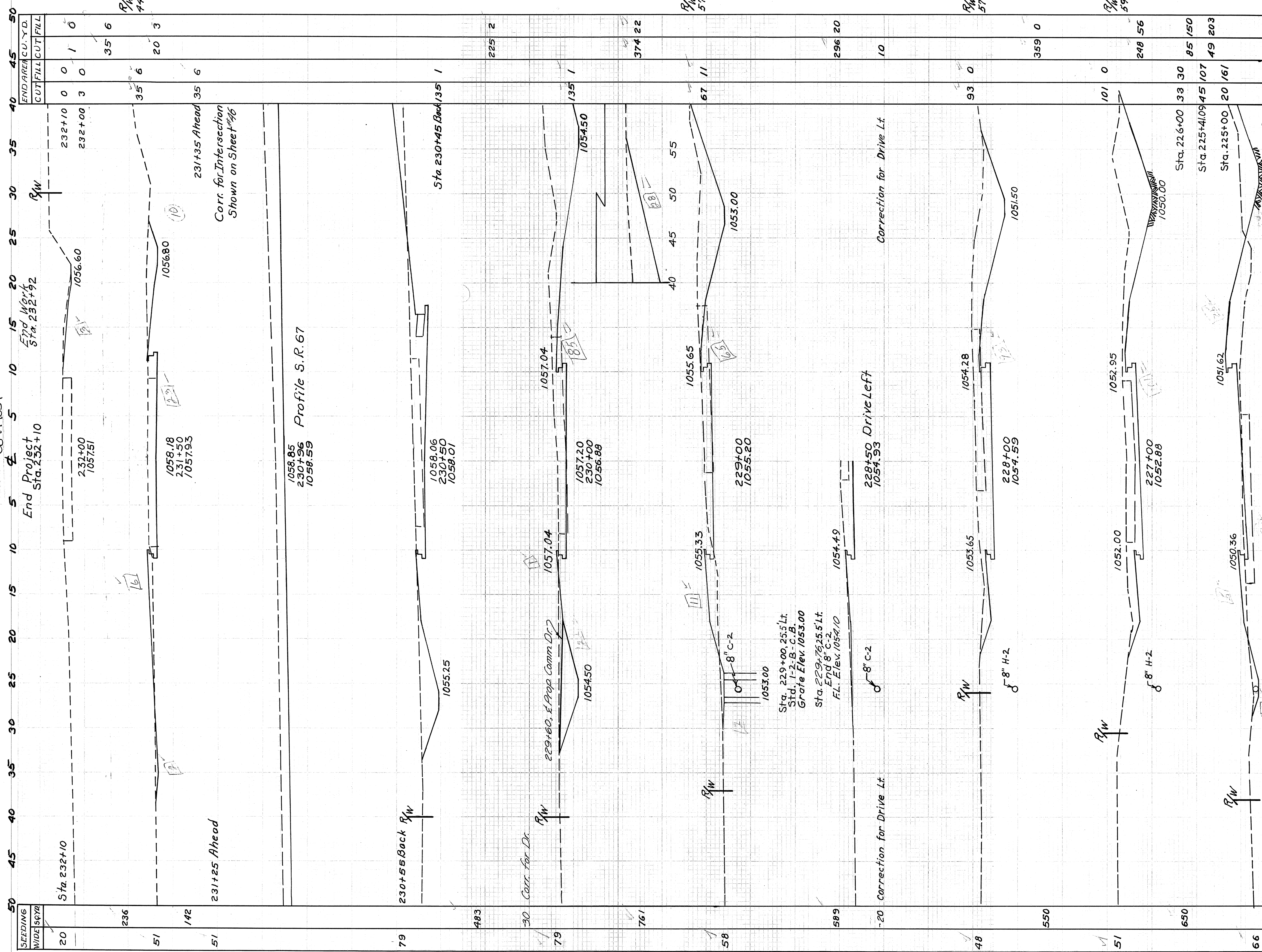
HARDIN COUNTY
HAR.-69-2.36
HAR.-67-2.43

STA. 220+00 to STA. 225+20

Sheet Total

SEEDING WIDTH	END AREA	CUT	FILL	CUT	FILL
85	30	60		45	50
68			20	161	
744			49	661	
66			6	196	
833			56	648	
75			24	154	
84			117	498	
939			39	115	
85			72	185	
472			38	85	
85			70	137	
475			37	63	
86			86	180	
511			56	131	
98			33	244	
528			67	224	
92			124	281	
259					
111					
4606					

DATE 2-7-1999
 PROJECT CO474039



HARDIN COUNTY
HAR-69-2.36
HAR-67-2.43

SEEDING WIDE (SQ YD)	STA	END AREA CUT (CU YD)	END AREA FILL (CU YD)
20	232+10	0	0
51	231+50	3	0
51	231+25	35	6
79	230+55	20	3
483	230+96	225	2
30	229+60	135	1
79	229+00	374	22
58	228+50	67	11
589	228+00	296	20
48	227+00	10	0
51	226+00	359	0
66	225+41.09	101	0
438	225+00	248	56
68	225+00	85	150
4110	Sheet Total	49	203

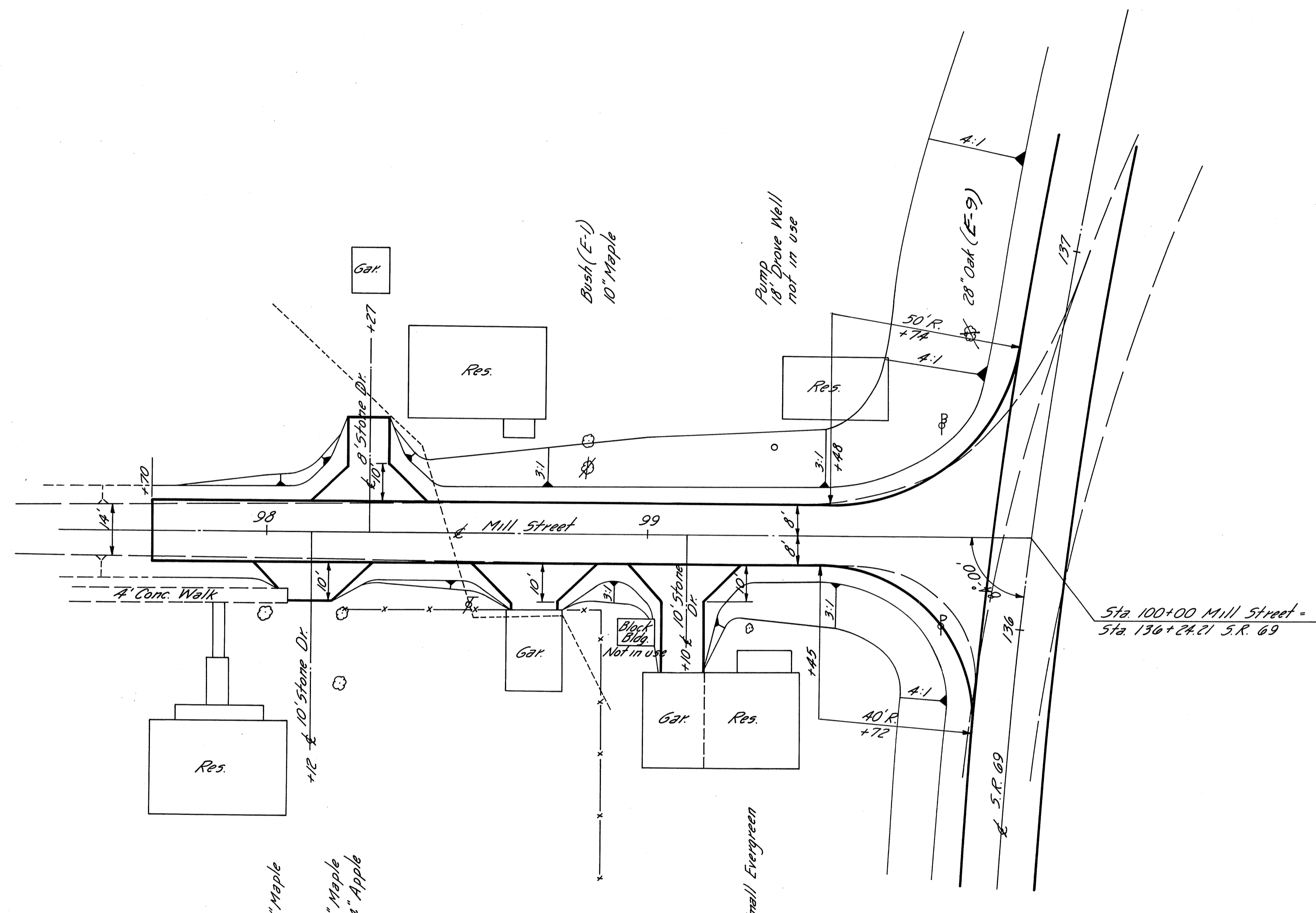
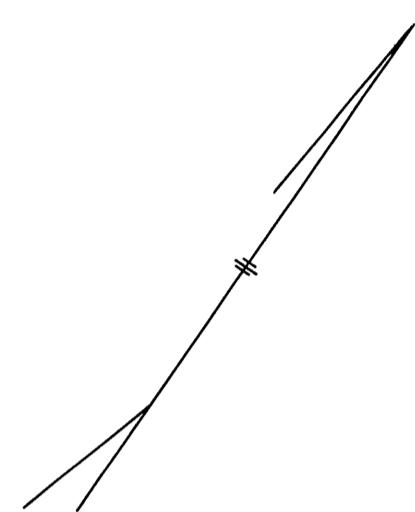
STA. 225+41.09 to STA. 232+00

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HARDIN COUNTY
 HAR-69-236
 HAR-67-243

INTERSECTION NO. I-P

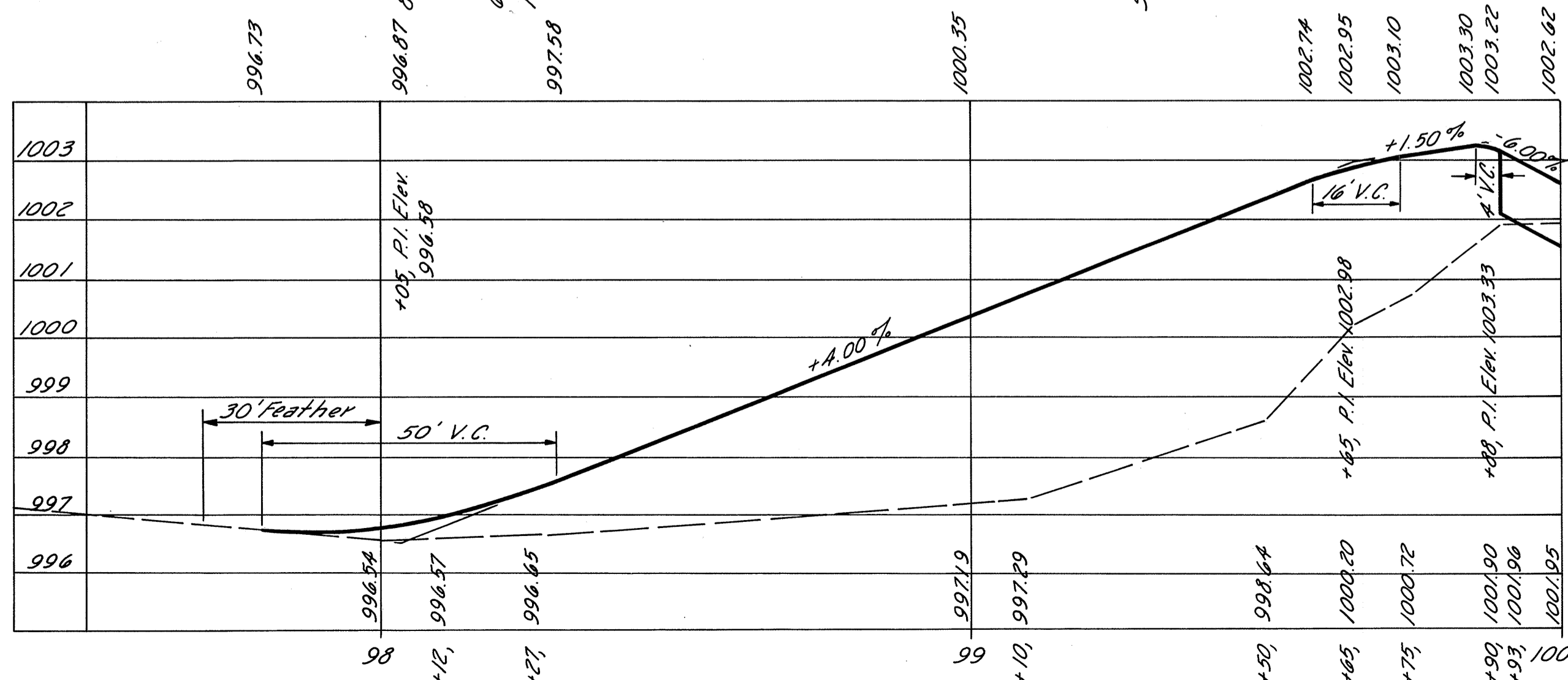
Mill Street & S.R. 69
 Scale - 0 10 20 40 Feet



Sta 100+00 Mill Street =
 Sta 136+24.21 S.R. 69

ESTIMATED QUANTITIES

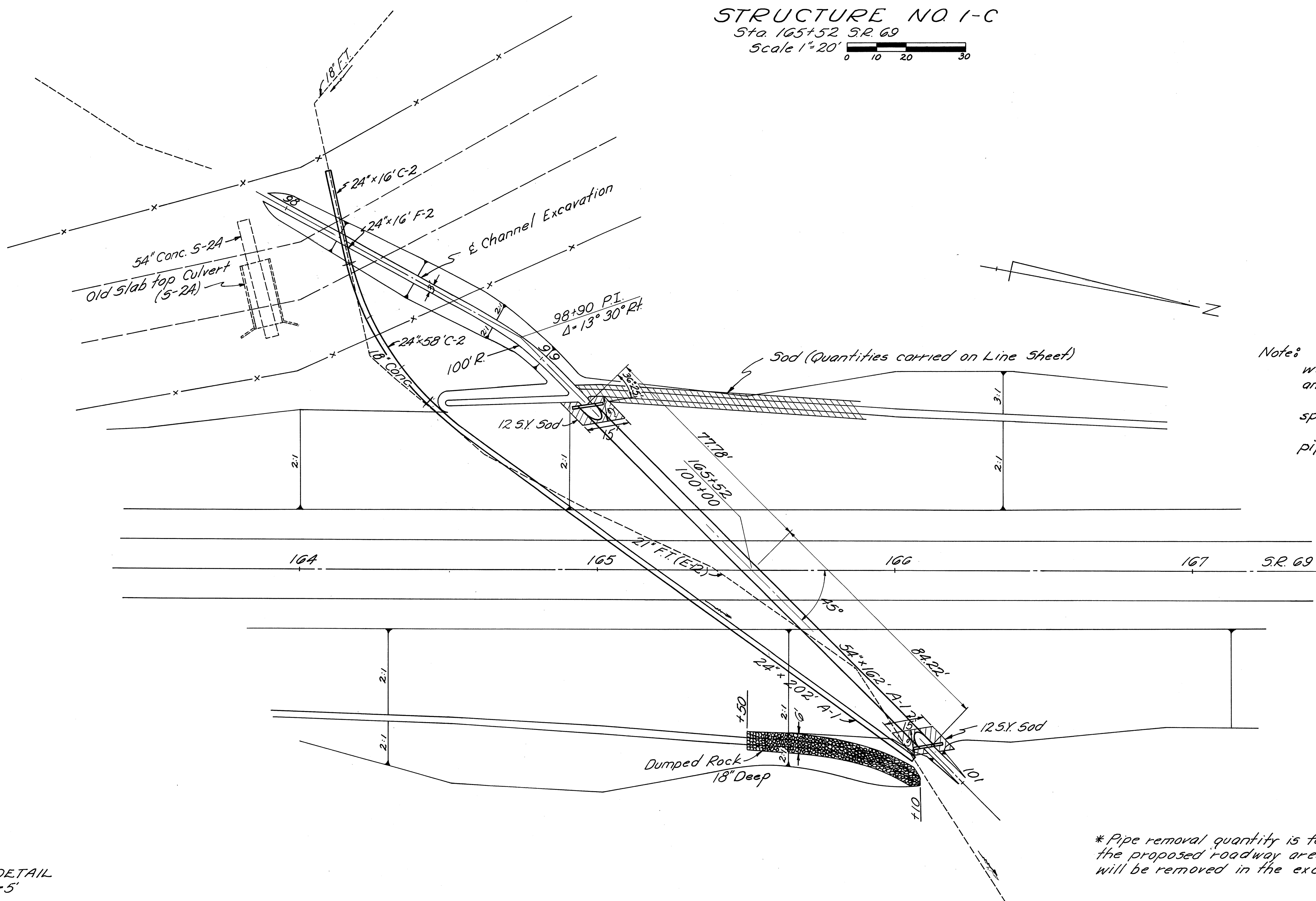
E-1	Compacted Subgrade	429	Sq. Yds.
T-35	1 1/2" Asphaltic Concrete Surface Course	16.8	Cu. Yds.
B-35	1" Asphaltic Concrete Leveling Course	13.4	Cu. Yds.
B-19	8" Aggregate Base Course	103.1	Cu. Yds.
T-30	Bituminous Prime Coat	186	Gals.
I-18	8" Stabilized Crushed Aggregate Shoulders & Approaches	31.2	Cu. Yds.
T-30	Bituminous Tack Coat	5	Gals.



6474640
 2-7-1959
 100

STRUCTURE NO 1-C
Sta 165+52 S.R. 69
Scale 1"=20'

HARDIN COUNTY
HAR-69-2.36
HAR-67-2.43

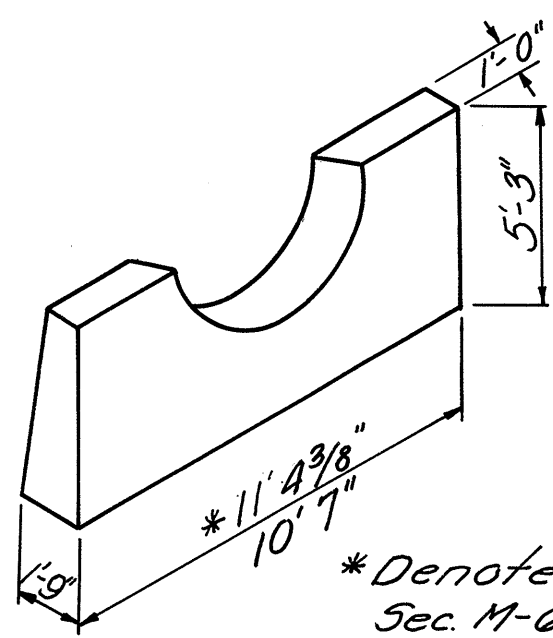


Note: If Sec. M-6.4 (d) 8 gage pipe is used end walls shall be skewed 45° parallel with E. Constr. and I-2 masonry shall be increased .63 C.Y.
The skewed ends of culvert pipe shall be specially fabricated by the manufacturer.
The short side of any specially fabricated pipe section shall be not less than two (2) feet long.

Drainage Area 530 A
 $Q^{25} = 1 \times .65 \times .40 \times 570 = 148.2 \text{ Cfs.}$

* Pipe removal quantity is for that portion of the 21" Tile line under the proposed roadway area and does not include the part that will be removed in the excavation for I-1 pipe.

END WALL DETAIL
Scale 1"=5'

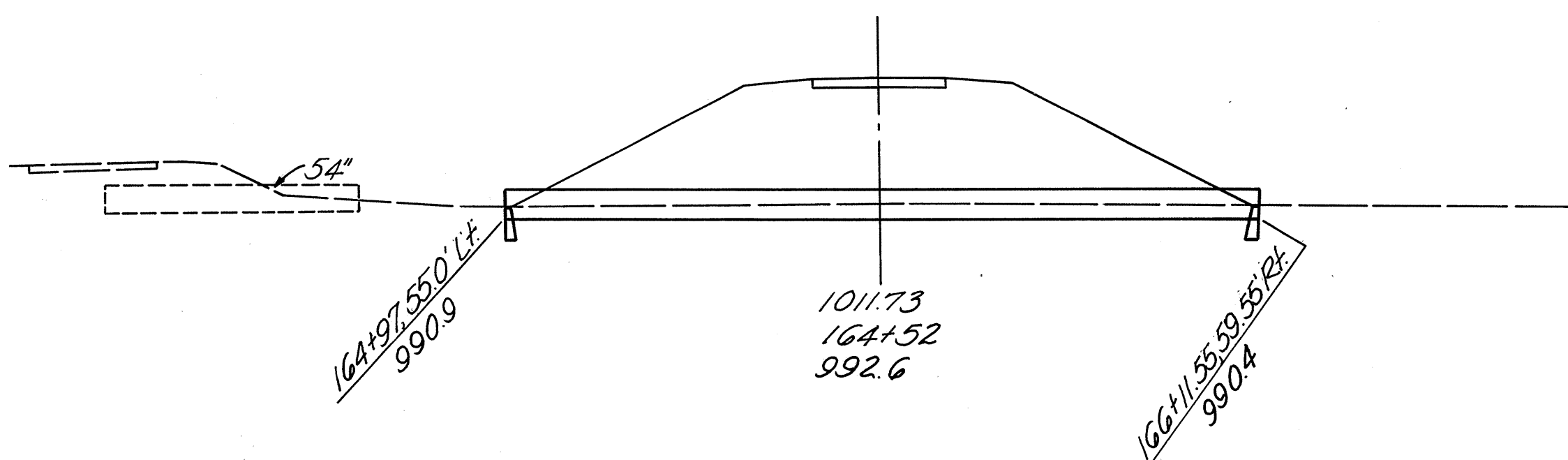


* Denotes Dimensions if Sec. M-6.4 (d) pipe is used

WORK REQUIRED
Build 54"x162' A-1 Culvert with 5P-53 end walls, as per plan, Remove 21" exist. field tile and build 24"x74' C-2, 24"x167' 2, 24"x202' A-1 pipe, as per plan. Place Sod as shown.

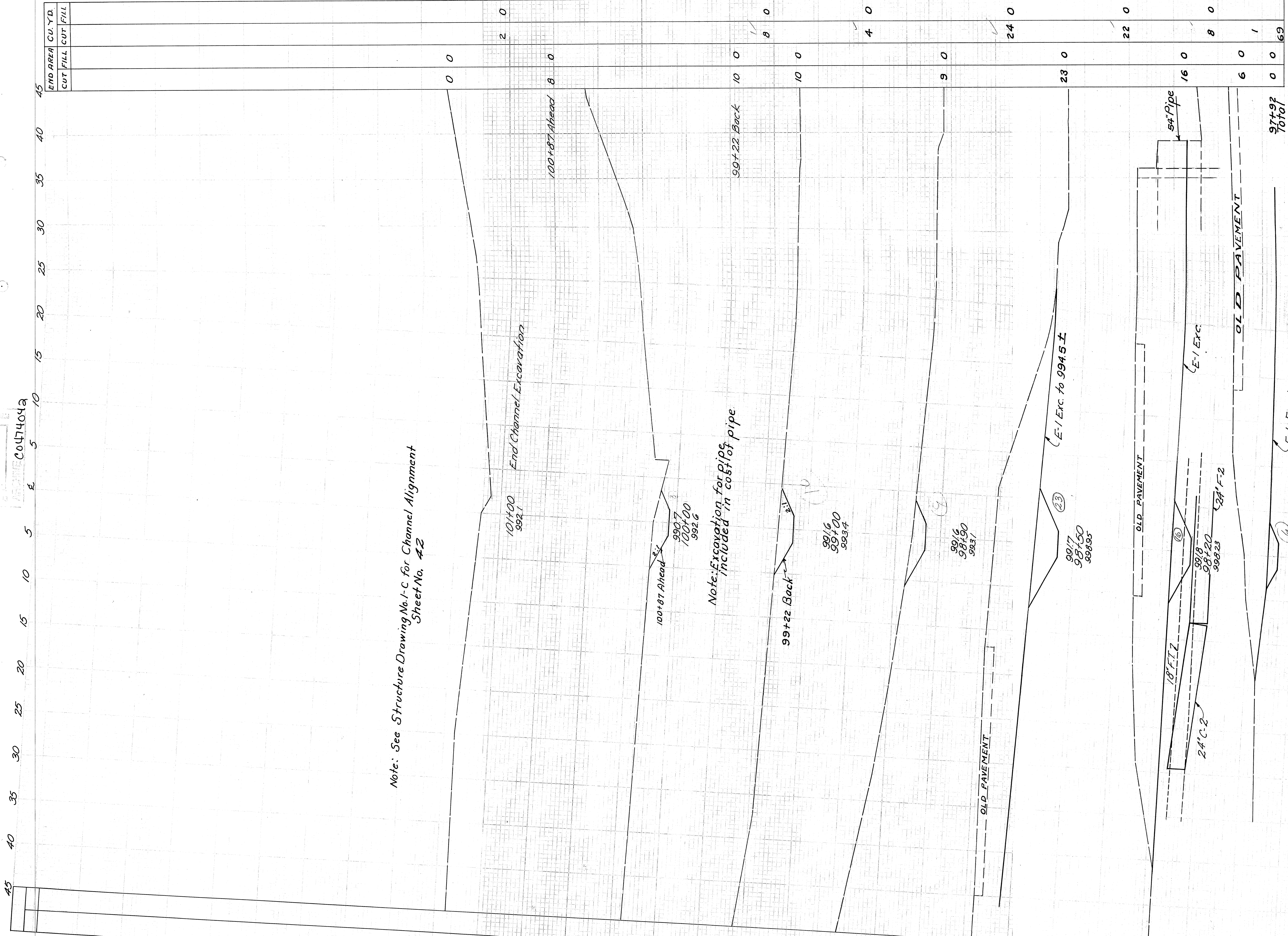
Std Drawings: 5P-53, I-1

ESTIMATED QUANTITIES	
E-12 Pipe Removed over 15"	156* L.F.
I-1 24" Pipe, Class C-2	74 L.F.
I-1 24" Pipe, Class F-2	16 L.F.
I-1 24" Pipe, Class A-1, M-6.6 (b)	202 L.F.
I-1 54" Pipe, Class A-1 Sec. M-6.6 (c) or M-6.4 (d) 8 gage	162 L.F.
I-2 Masonry	442 C.Y.
L-10 Sodding	24 SX
S-24 Removal and Disposal of Existing Structure	Lump
E-3 Channel Excavation	69 C.Y.
I-10 Dumped Rock Channel Protection	20 C.Y.



JUL 27 1939

APPROX 0047404



Note: See Structure Drawing No. 1-C for Channel Alignment Sheet No. 42

101+00
992.1
End Channel Excavation

100+87 Ahead 8 0

100+87 Ahead
992.7
100+00
992.6

Note: Excavation for pipe included in cost of pipe.

99+22 Back
991.6
99+00
993.4

991.6
98+50
993.1

(E-1 Exc. to 994.5 ±)

991.7
98+50
993.5

OLD PAVEMENT

18' F-1

24' C-2

991.9
98+20
993.3

(E-1 Exc)

24' F-2

OLD PAVEMENT

(E-1 Exc to E1 993.0 ±)

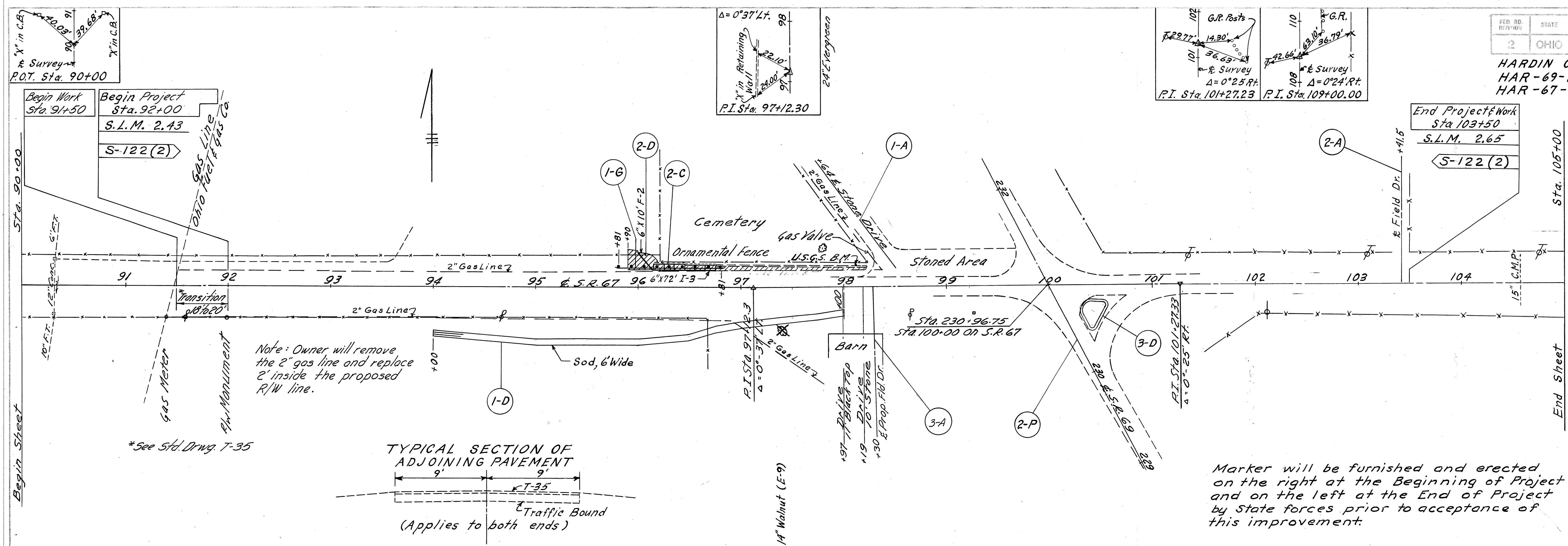
991.9
98+00
993.7

97+92
992.6
Begin Channel Excavation

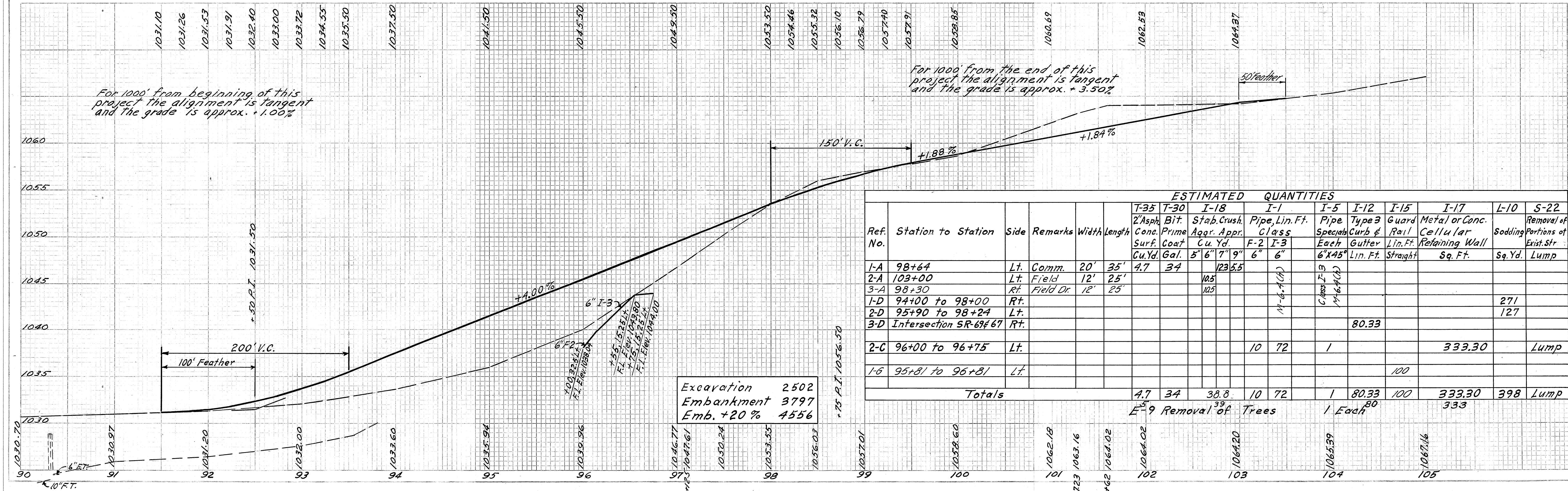
97+50
993.4

Sheet total

HARDIN COUNTY
HAR-69-2.36
HAR-67-2.43



Marker will be furnished and erected on the right at the Beginning of Project and on the left at the End of Project by State forces prior to acceptance of this improvement.

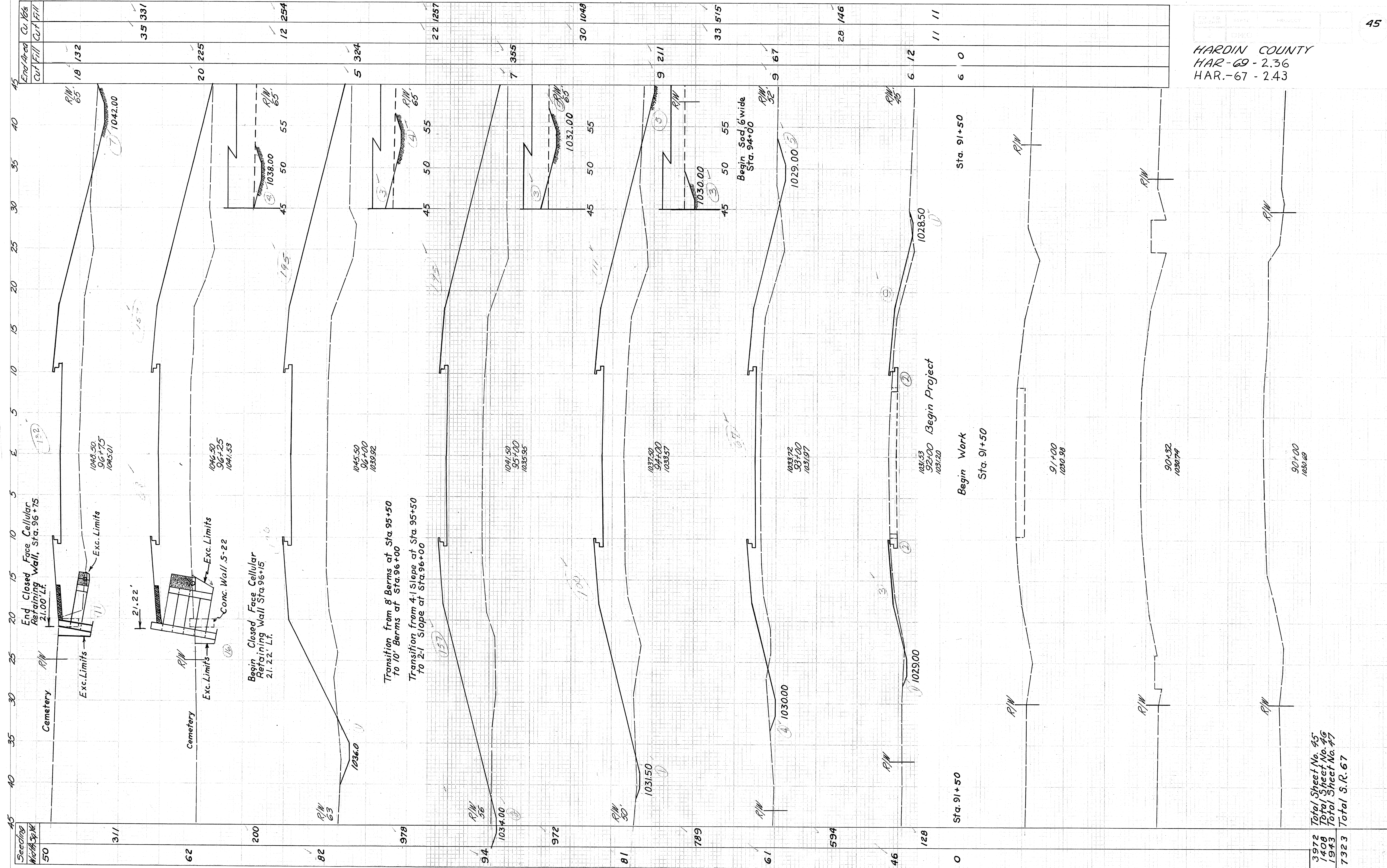


Ref. No.	Station to Station	Side	Remarks	Width	Length	ESTIMATED QUANTITIES														
						T-35 2'Asph. Surf. Cu.Yd.	T-30 Bit. Coat Gal.	I-18 Stab. Aggr. Cu.Yd.	I-1 Pipe, Lin. Ft.	I-5 Pipe Spec. Each	I-12 Type 3 Curb & Gutter Lin. Ft.	I-15 Guard Rail Lin. Ft.	I-17 Metal or Conc. Cellular Retaining Wall Sq. Ft.	L-10 Sodding Portions of Exist. Str. Sq. Yd.	S-22 Removal of Lump					
1-A	98+64	Lt.	Comm.	20'	35'															
2-A	103+00	Lt.	Field	12'	25'	4.7	34													
3-A	98+30	Rt.	Field Dr.	12'	25'															
1-D	94+00 to 98+00	Rt.																		271
2-D	95+90 to 98+24	Lt.																		127
3-D	Intersection SR-69 & 67	Rt.																		
2-C	96+00 to 96+75	Lt.							10	72	1									333.30
1-G	95+81 to 96+81	Lt.																		
Totals						4.7	34	38.8	10	72	1	80.33	100	333.30	398	Lump				

Excavation 2502
 Embankment 3797
 Emb. +20% 4556

E-9 Removal of Trees 1 Each 80 333

00474044

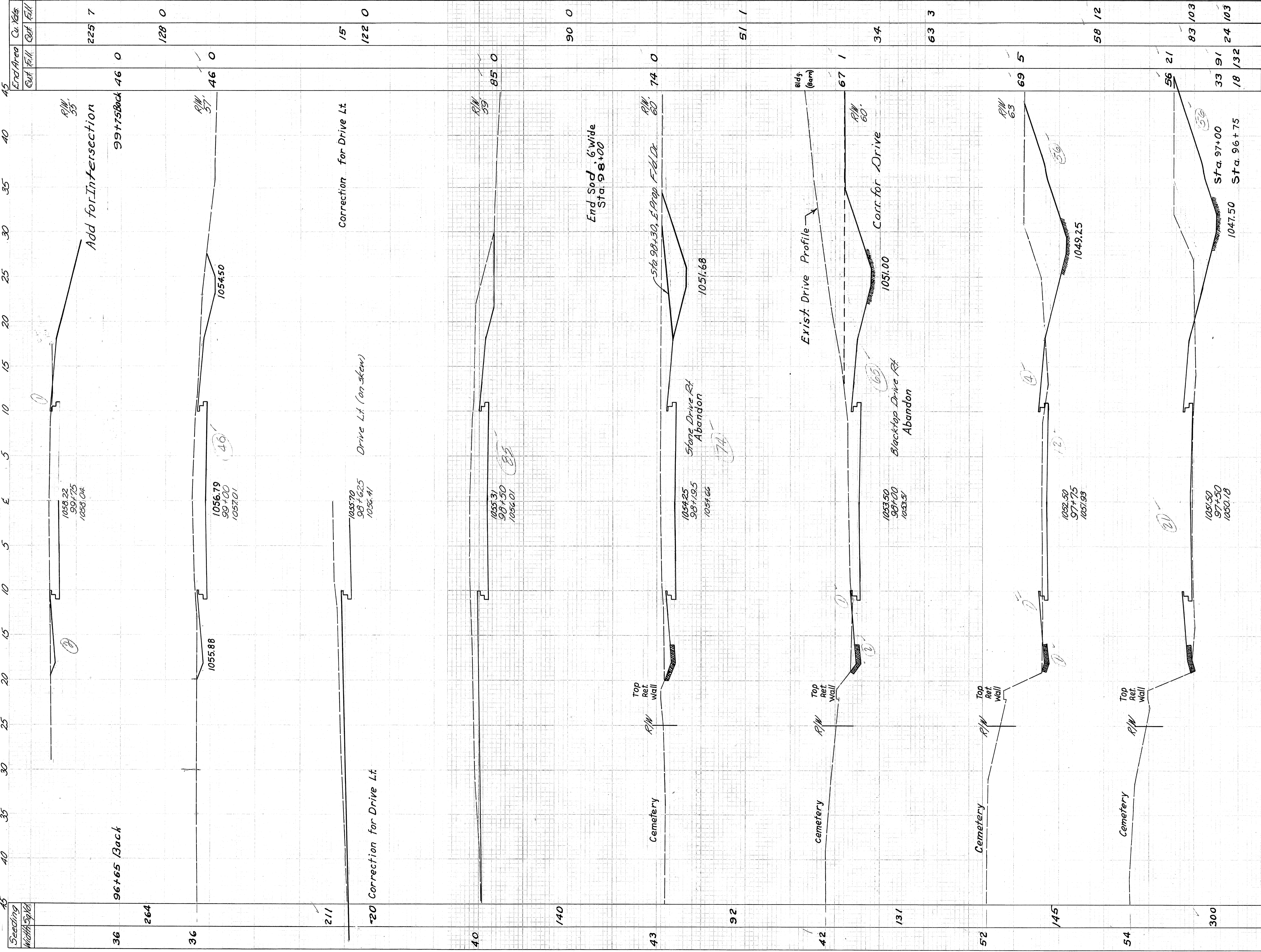


HARDIN COUNTY
 HAR-69-2.36
 HAR-67-2.43

3972 Total Sheet No. 45
 1408 Total Sheet No. 46
 1943 Total Sheet No. 47
 7323 Total S.R. 67

S.R. 67 Sta. 90+00 to Sta. 96+75

SEALING
JUL 27 1959
HARDIN COUNTY



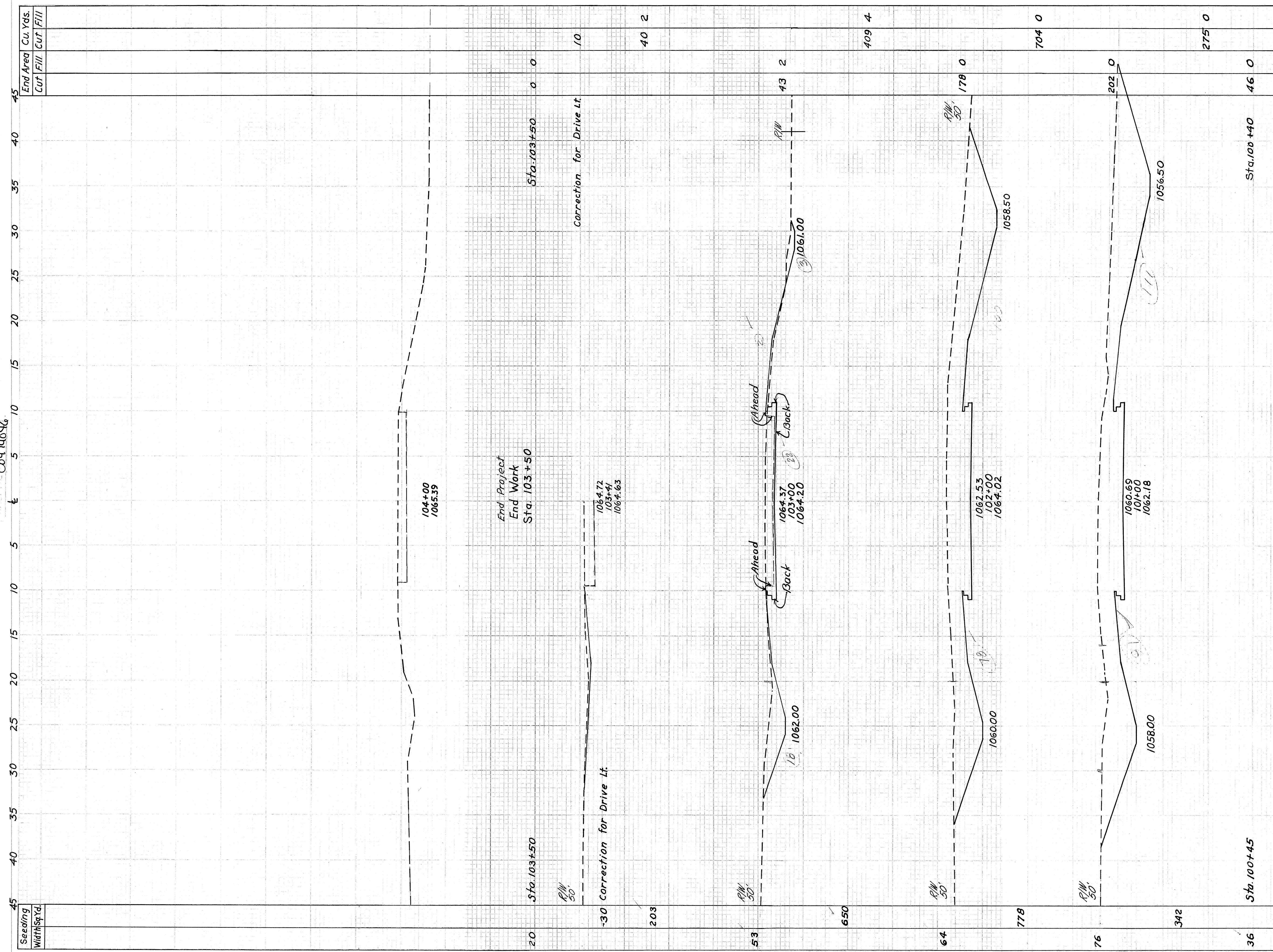
End Area	Cu Yds
Cut	Fill
225	7
46	0
128	0
46	0
15	
122	0
90	0
51	1
67	1
34	
63	3
69	5
58	12
56	21
33	91
83	103
18	132
33	91
24	103

HARDIN COUNTY
HAR-69-2.36
HAR-67-2.43

50 Sta. 96+75
1408 Sheet Total

SR. 67 Sta. 97+00 to Sta. 99+75

RECORDED
 JUL 27 1959
 ARCHIVE COPY 4046



HARDIN COUNTY
 HAR.-69-2.36
 HAR.-67-2.43

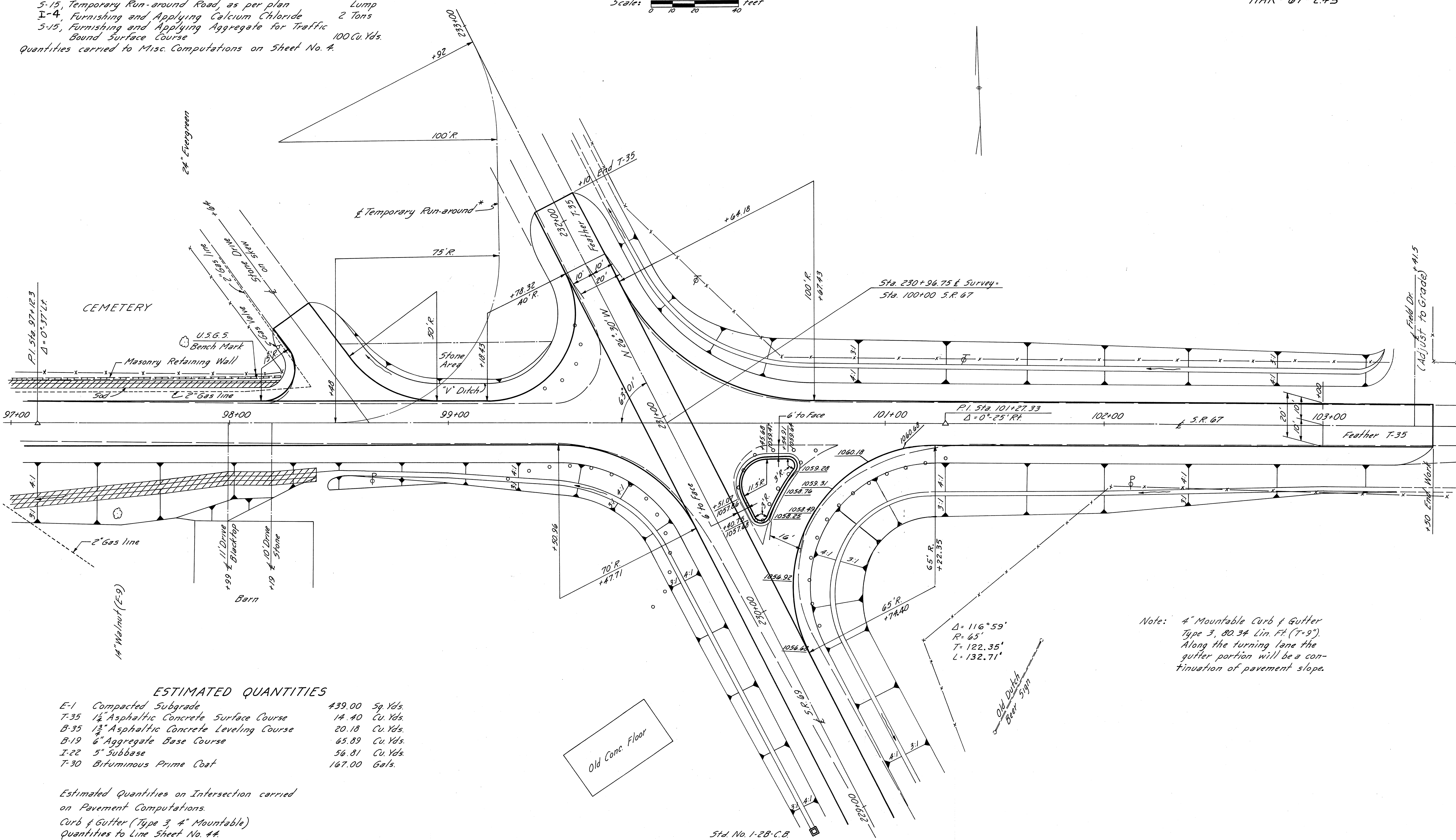
HARDIN COUNTY
 HAR-69-236
 HAR-67-243

INTERSECTION NO. 2-P

S.R. 69 & S.R. 67
 Scale: 0 10 20 40 feet

* Temporary run-around shall be constructed with a 20' pavement width and a 26' roadway. The pavement shall be constructed with 8" of aggregate stabilized with calcium chloride. The grade shall be approximately the same as the existing pavement. Cost of building the temporary shall be included in the following items:

5-15, Temporary Run-around Road, as per plan Lump
 I-4, Furnishing and Applying Calcium Chloride 2 Tons
 5-15, Furnishing and Applying Aggregate for Traffic Bound Surface Course 100 Cu. Yds.
 Quantities carried to Misc. Computations on Sheet No. 4.



ESTIMATED QUANTITIES

E-1	Compacted Subgrade	439.00	Sq. Yds.
T-35	1 1/2" Asphaltic Concrete Surface Course	14.40	Cu. Yds.
B-35	1 1/2" Asphaltic Concrete Leveling Course	20.18	Cu. Yds.
B-19	6" Aggregate Base Course	65.89	Cu. Yds.
I-22	5' Subbase	56.81	Cu. Yds.
T-30	Bituminous Prime Coat	167.00	Gals.

Estimated Quantities on Intersection carried on Pavement Computations.
 Curb & Gutter (Type 3, 4" Mountable)
 Quantities to Line Sheet No. 44.

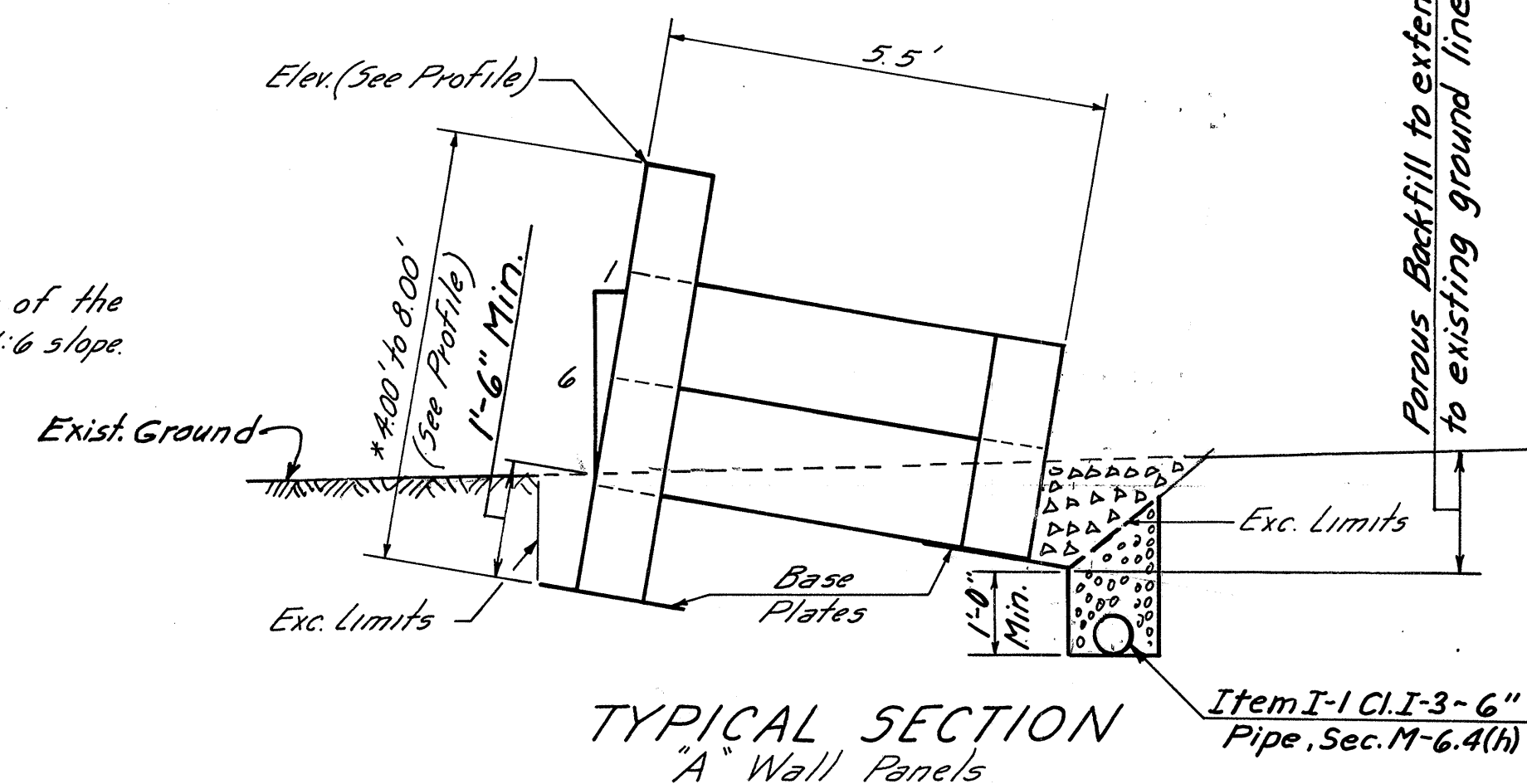
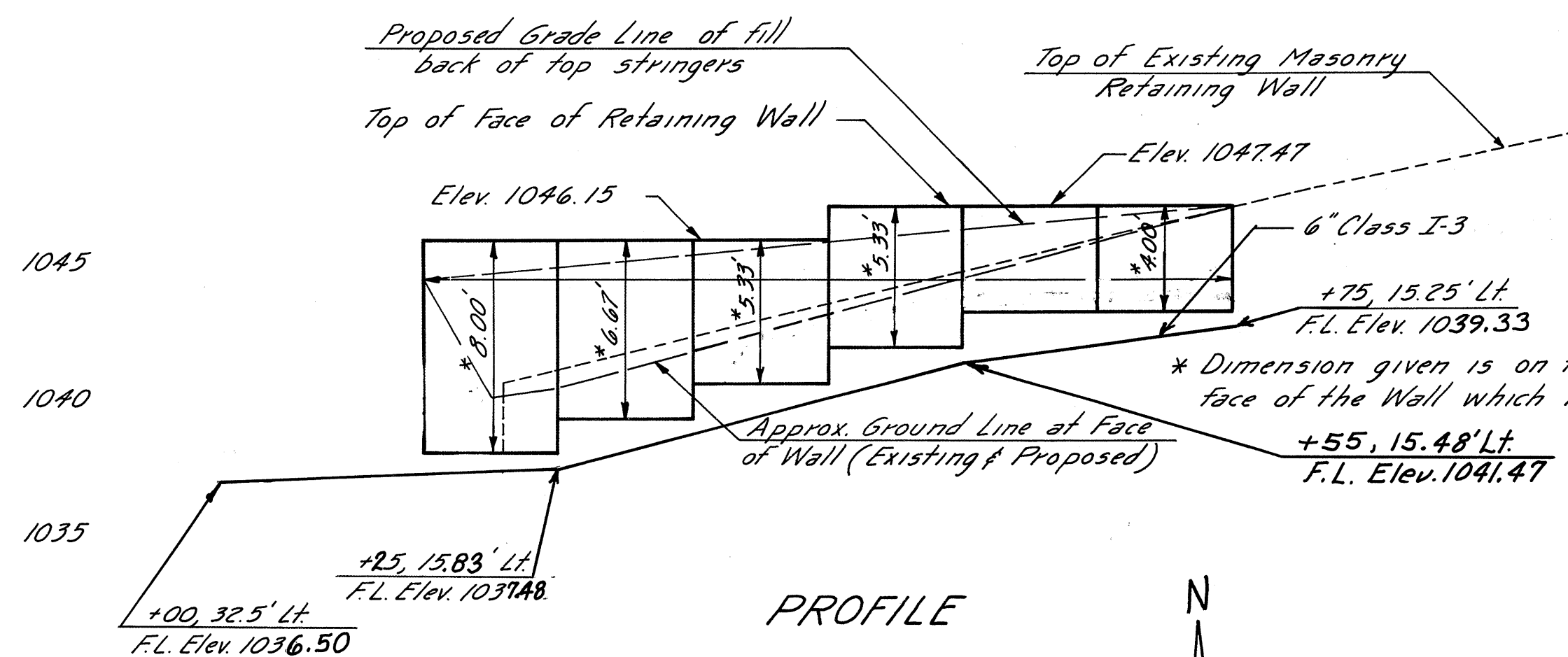
Note: 4" Mountable Curb & Gutter Type 3, 80.34 Lin. Ft. (T=9"). Along the turning lane the gutter portion will be a continuation of pavement slope.

STRUCTURE NO. 2-C METAL CELLULAR RETAINING WALL

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

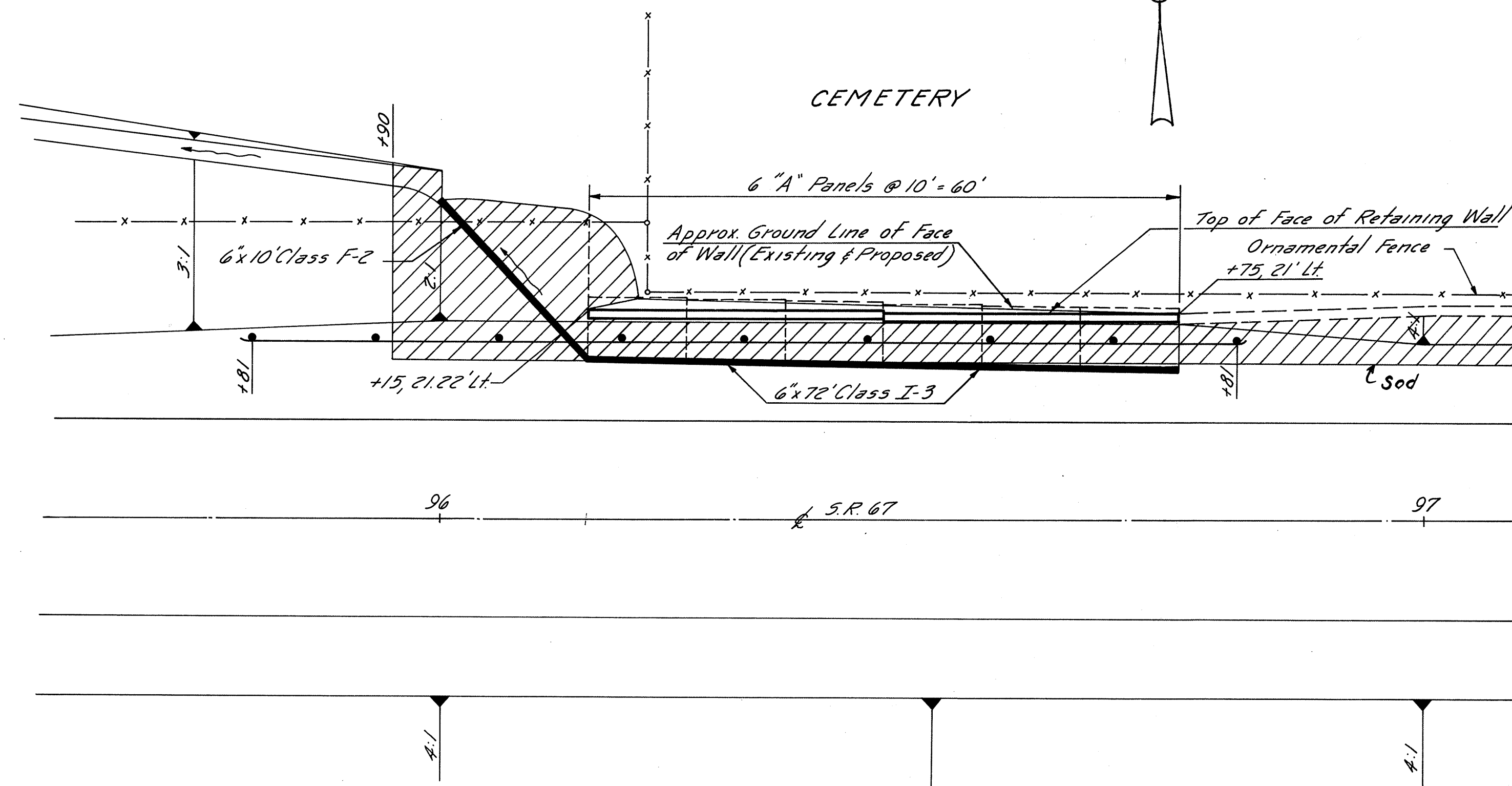
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HARDIN COUNTY
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NOTES

APPROVAL BY DIRECTOR - Design of this wall shall be essentially as shown. However final detail design showing dimensions and Gages, shall be in accordance with drawings submitted by the Contractor and approved by the Director, as called for in Item I-17.02. Design details for I-17 Cellular Retaining Wall as shown hereon are for a Metal Retaining Wall.



PLAN
Scale: 1" = 10'-0"

WORK REQUIRED

Build 333.30 Sq. Ft. (Facial Area) of closed face cellular Retaining Wall.
Place 72' of 6" Pipe, Class I-3, Sec. M-6.4(h) and 10' of 6" Pipe, Class F-2 as shown.

ESTIMATED QUANTITIES

Item I-1	6" Pipe, Class I-3, Sec. M-6.4(h)	333.30	Sq. Ft.
Item I-1	6" Pipe, Class F-2	72	Lin. Ft.
Item I-5	6" x 45° Pipe Special, Class I-3, Sec. M-6.4(h)	10	Lin. Ft.
Item I-5	Removal of Portions of Existing Structures	1	Each
Item L-10	Sodding	127	Sq. Yd.
Item I-17	Precast Closed Face Reinforced Concrete or Galvanized Closed Face Metal Cellular Retaining Wall	333	Sq. Ft.

Note: Estimated quantities carried to S.R. 67 topo sheet No. 44

EXCAVATION - Any excavation on the North side of this Retaining Wall shall be replaced to the original ground line and compacted same as backfill behind wall. See Sec. I-17.04.

CONCRETE CRIB (RECTANGULAR)

The minimum length of concrete headers shall be as follows:

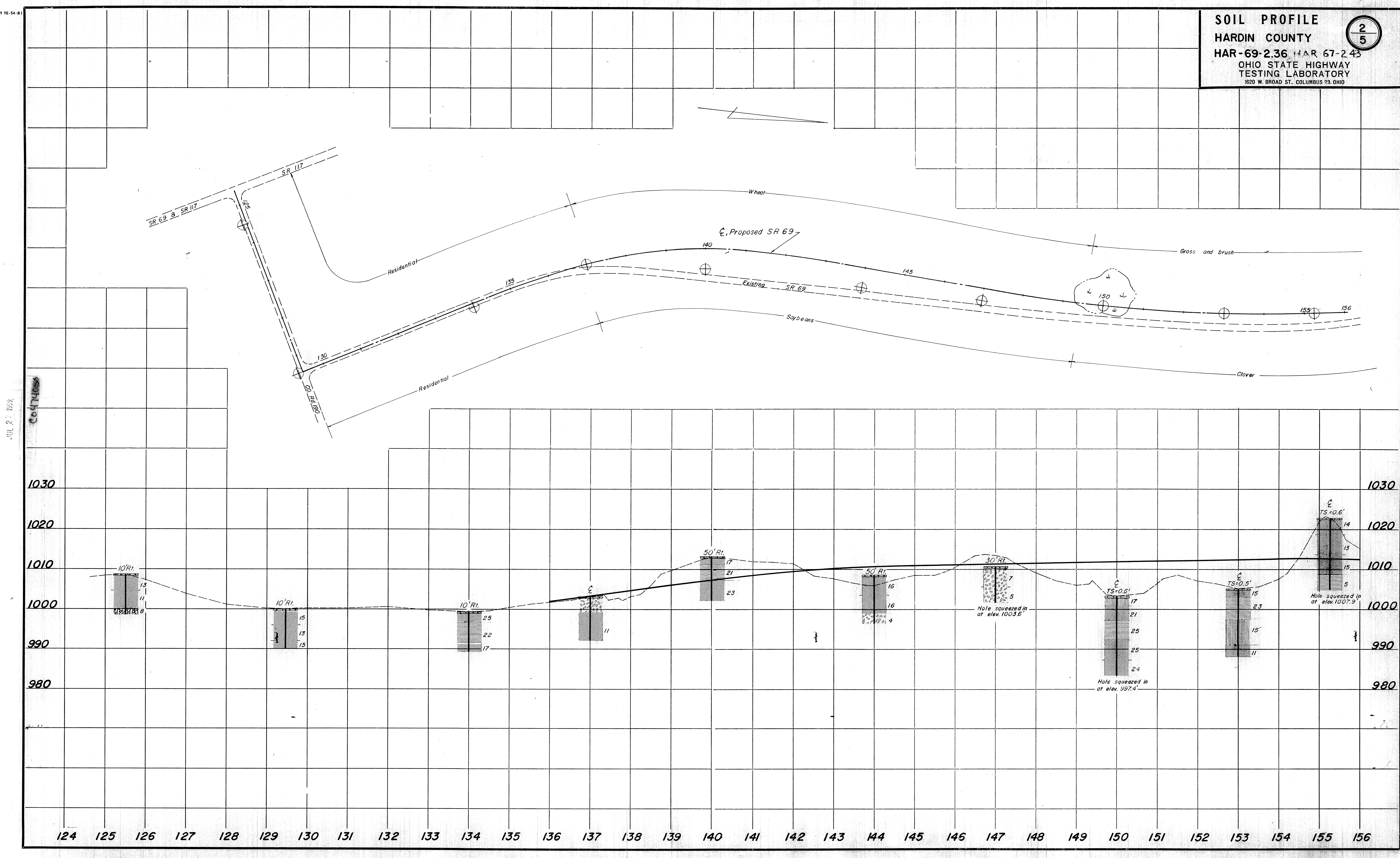
Overall Height "h"	Min. Length of Header
6'-0" or less	4'-0"
Over 6'-0" but not over 8'-0"	6'-0"

METAL CRIB

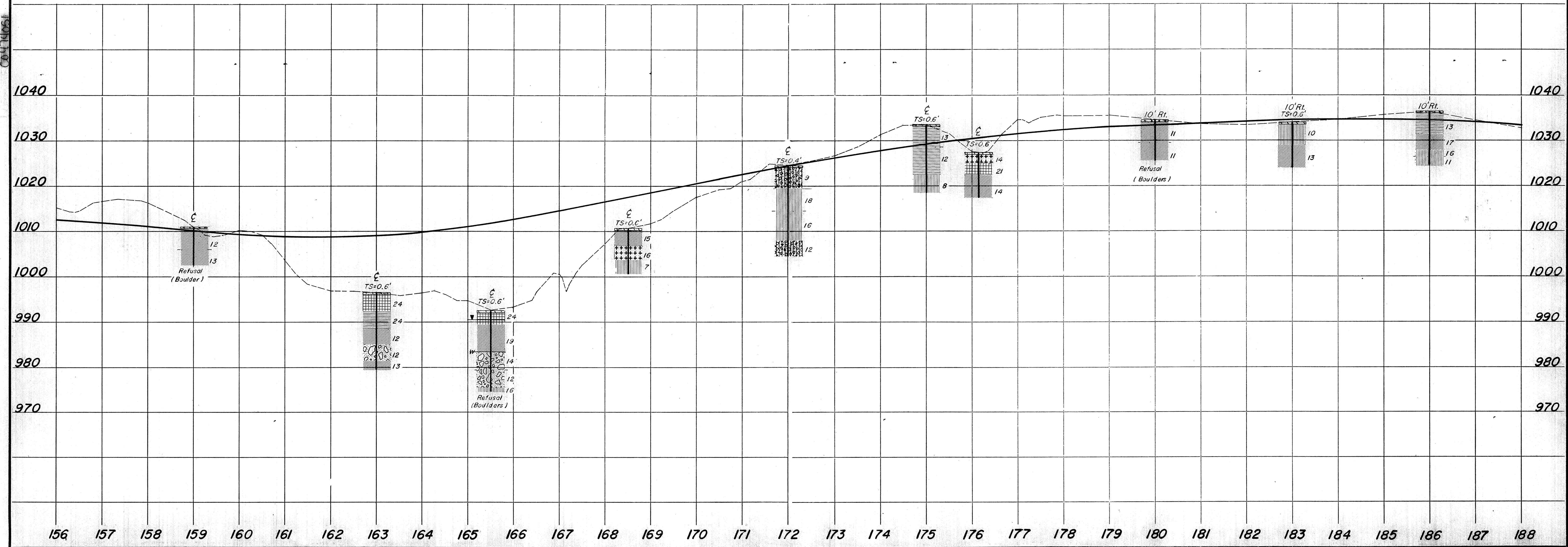
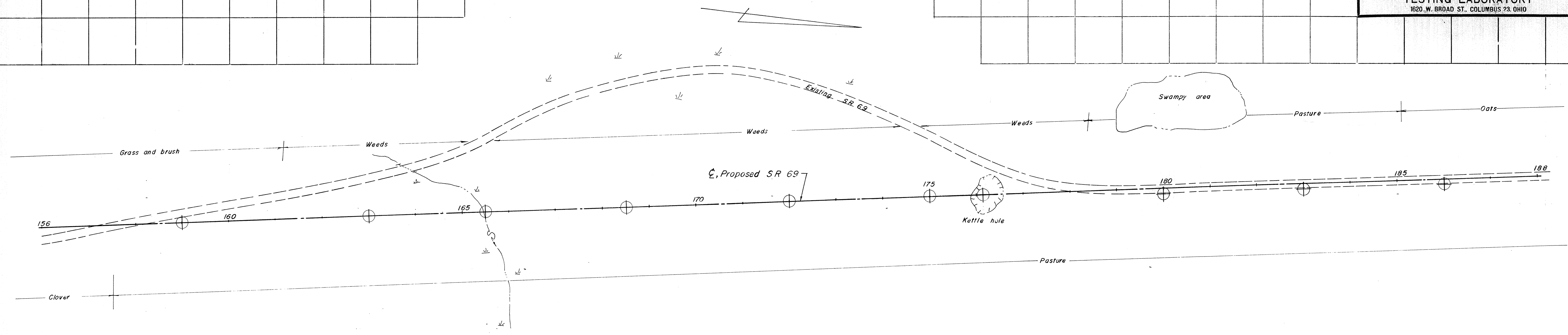
Gages of metal and design details shall be as follows:

Overall Height "h"	Design	Gage
8'-0" or less	A*	16

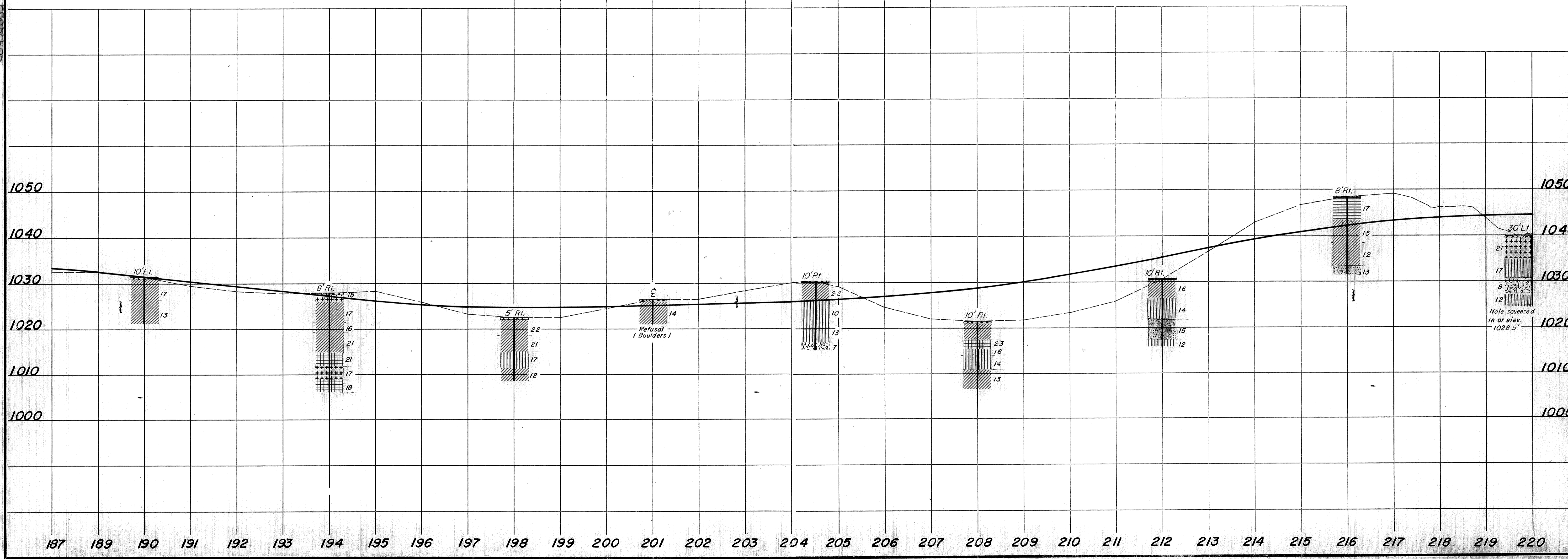
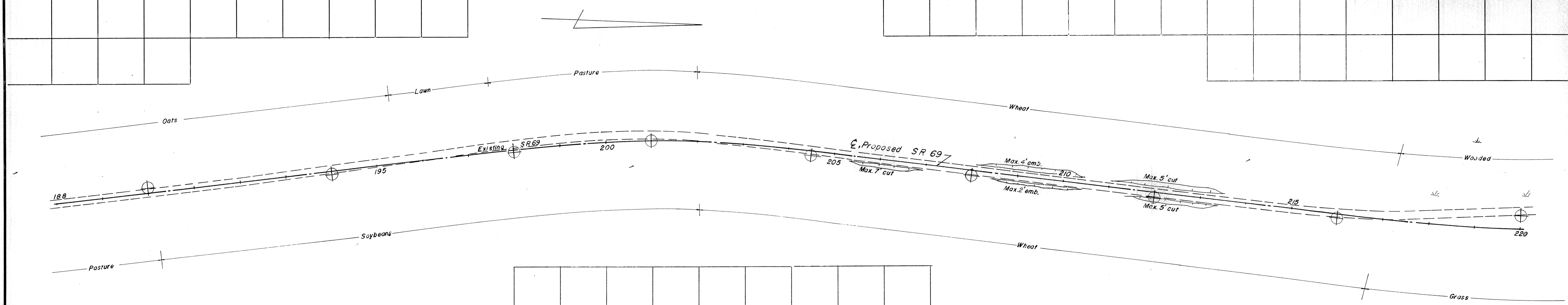
* Copies of details for design "A" are on file at the Department of Highways, Columbus, Ohio and are further identified as "Bin Type Retaining Walls," Drawings No. 4-340-D and BW-45-A.



JUL 2 1959



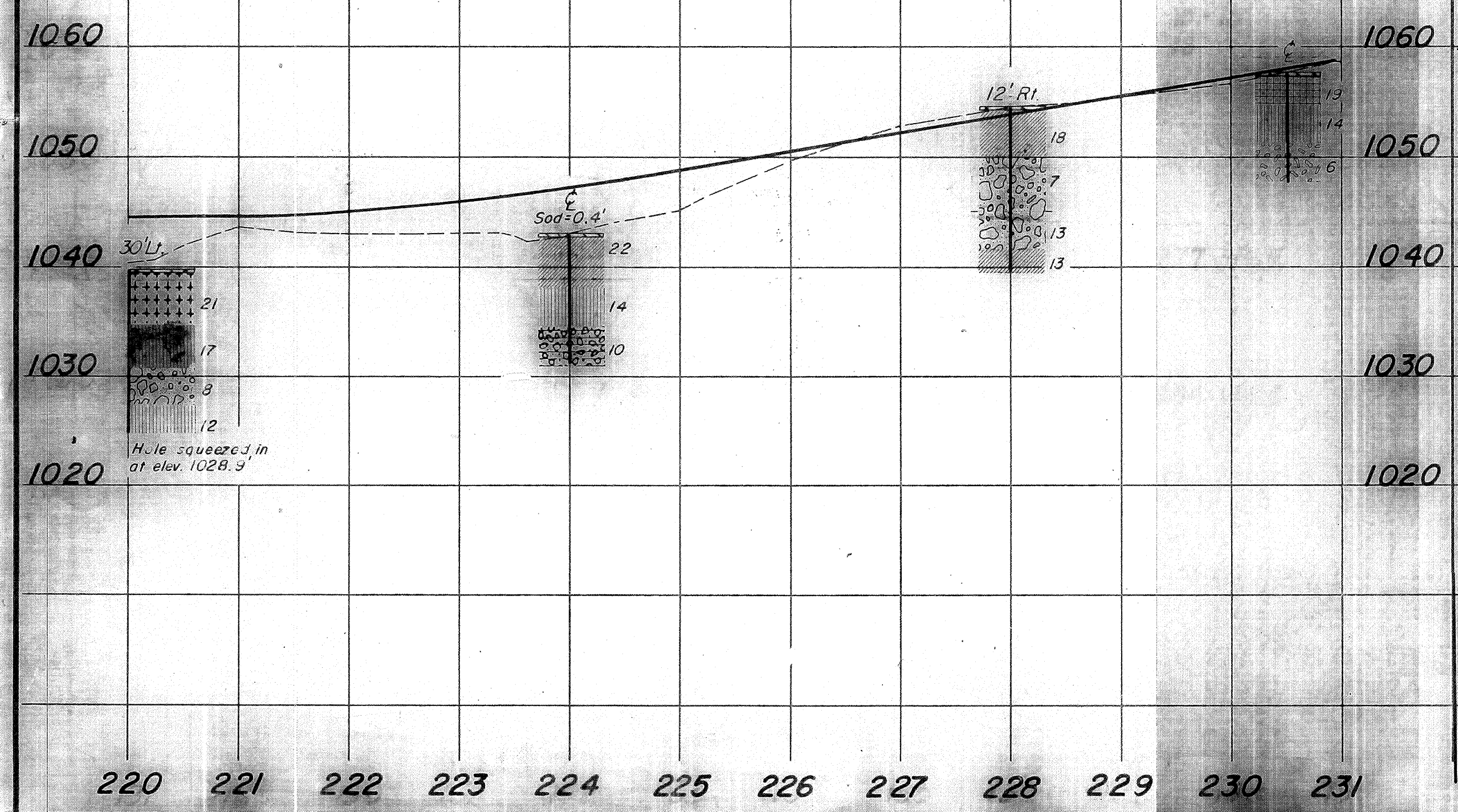
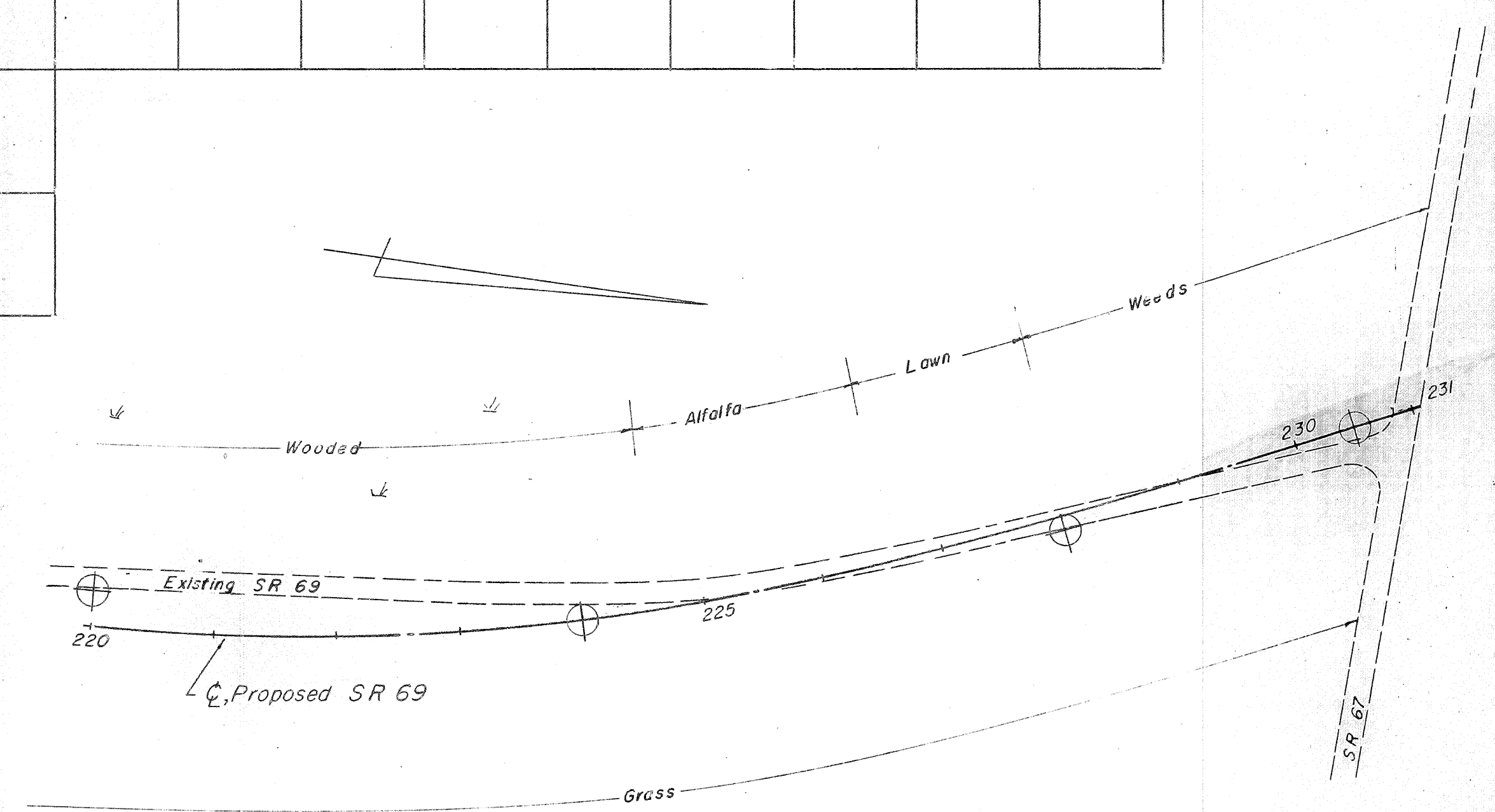
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SOIL PROFILE
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 HAR-69-2.36 HAR-47-2.43
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 TESTING LABORATORY
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