

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
SHE-119-3.48
SHELBY COUNTY
VAN BUREN TOWNSHIP

PLAN NO. 8R-45-73

FHWA REGION	STATE	PROJECT
5	OHIO	

SHELBY COUNTY
SHE-119-3.48

CONVENTIONAL SIGNS

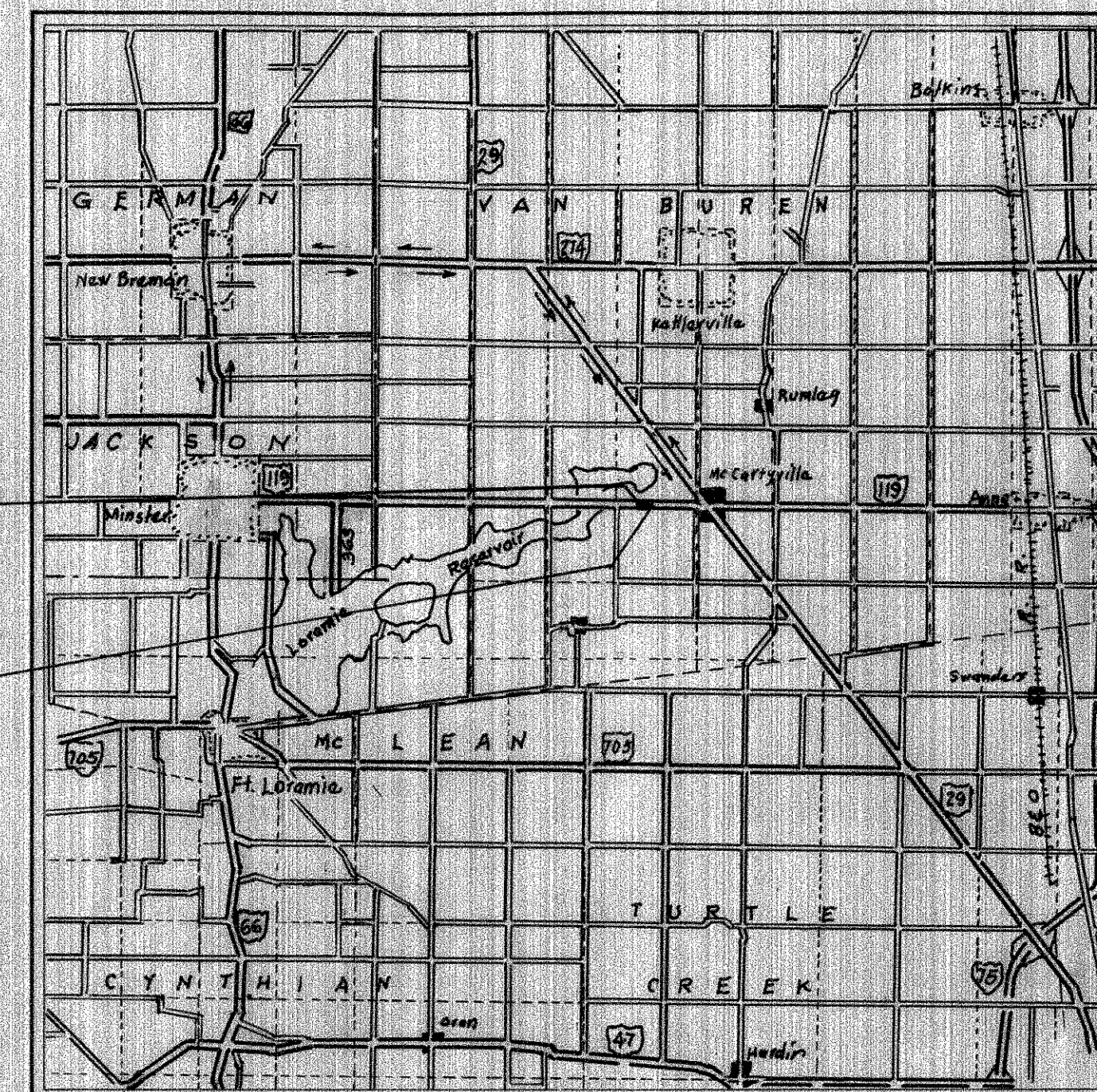
County Line	-----	Limited Access (only)	LA
Township Line	-----	Right of Way (only)	RW
Section Line	-----	Limited Access & Right of Way	LA&RW
Corporation Line	----- or -----	Existing Right of Way	-----
Fence Line (existing)	x x x (proposed) x x x	Property Line (in existing fence)	x x x
Center Line	-----	Railroad	-----
Trees: Stumps (to be removed)	⊗ ⊗	Guardrail (existing)	o o o (proposed) o o o
Utility Poles: Telephone, Power, Light	⊕ ⊕ ⊕		

INDEX OF SHEETS

TITLE SHEET	1
TYPICAL SECTIONS	2
GENERAL NOTES	3 & 4
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CROSS SECTIONS	9 TO 15
CHANNEL SECTIONS	16 & 17
STRUCTURES OVER 20' SPAN	18 TO 22
RIGHT OF WAY	23 TO 25
SOIL PROFILE	26 TO 27
STR. FOUND. INVEST.	28 TO 30

BEGIN PROJECT
SLM 3.48
STA 184+50

END PROJECT
SLM 3.65
STA 193+00



LOCATION MAP

SCALE OF MILES



Portion to be improved	-----
State Roads	-----
Other Roads	-----
Detour	-----

SCALES

Plan	0 50 100
Profile: Horizontal	0 50 100
Profile: Vertical	0 5 10

LINE DATA

Begin Work Sta. 183+00
Begin Project Sta. 184+50
End Project Sta. 193+00
End Work Sta. 193+00

NET LENGTH OF PROJECT 850.00 Lin.Ft. or 0.160 Mi.
NET LENGTH OF WORK 1200.00 Lin.Ft. or 0.227 Mi.

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS

BP-1	6-1-65	MC-8	12-1-67	CPA-2-73	4-10-73
BP-5	6-1-72			CPP-2-73	4-10-73
BP-6	6-1-65			CS-2-73	4-10-73
AS-1-72	6-30-72			DBR-2-73	4-10-73
CB2-2A&B	6-1-65				
GR-3	11-9-71				
GR-4	11-9-71				
GR-5	1-1-71				
GR-2B	11-9-71				
MC-3	6-1-73				
MC-4	6-13-69				

SUPPLEMENTAL SPECIFICATIONS

808	1-1-71
836	1-1-71

1973 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION INCLUDING CHANGES & SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON THE PLANS.

APPROVED William F. Shagun
DATE 8-31-73 DISTRICT DEPUTY DIRECTOR OF TRANSPORTATION

APPROVED Robert B. Pfeiffer
DATE 7-3-74 ENGINEER OF BRIDGES

APPROVED R. L. Zook
DATE 9-13-74 ENGINEER OF MAINTENANCE

APPROVED R. Carson Rankin
DATE 9-13-74 ASSISTANT DEPUTY DIRECTOR, OPERATIONS AND MAINTENANCE

APPROVED _____
DATE _____ ASSISTANT DEPUTY DIRECTOR, REAL ESTATE

APPROVED William B. Buntley
DATE 9-13-74 ASSISTANT DEPUTY DIRECTOR, PROGRAM DEVELOPMENT

APPROVED _____
DATE _____ CHIEF ENGINEER, DIVISION OF HIGHWAYS

APPROVED William W. Baker
DATE 9-16-74 DEPUTY DIRECTOR, DIVISION OF HIGHWAYS

APPROVED William P. McHanna
DATE 9-16-74 ASSISTANT DIRECTOR, DEPARTMENT OF TRANSPORTATION

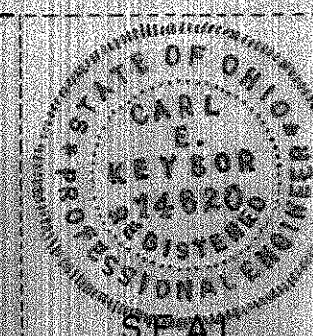
APPROVED J. Phillip Richey
DATE 9-16-74 DIRECTOR, DEPARTMENT OF TRANSPORTATION

Project: SHE-119-348
Date of Letting: _____ 19____, Contract No. _____

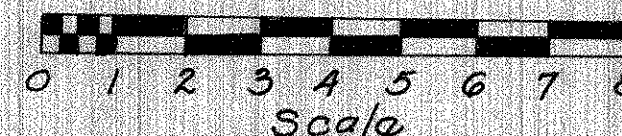
LD 0300
12-29-67

THESE PLANS PREPARED BY
DISTRICT 7 UNDER THE SUPERVISION
OF SENIOR DESIGN ENGINEER:

Carl C. Kipp
DATE Aug. 30, 1973



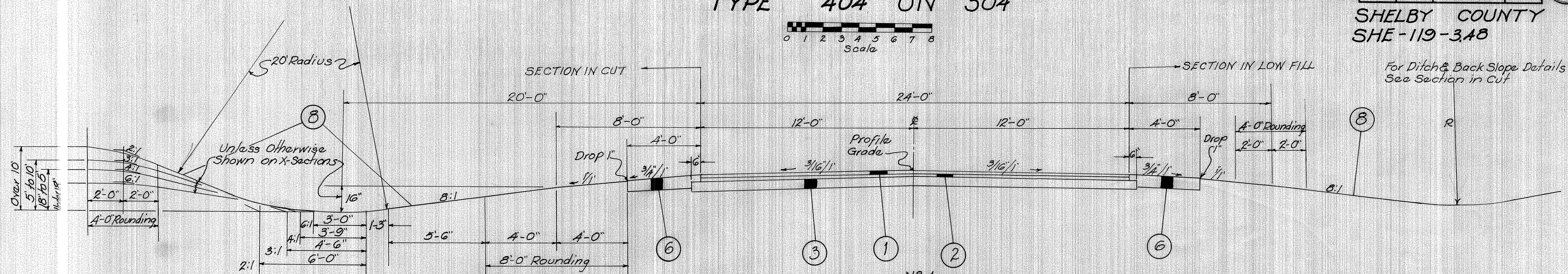
TYPICAL SECTIONS TYPE 404 ON 304



FED. RD. DIVISION	STATE	PROJECT
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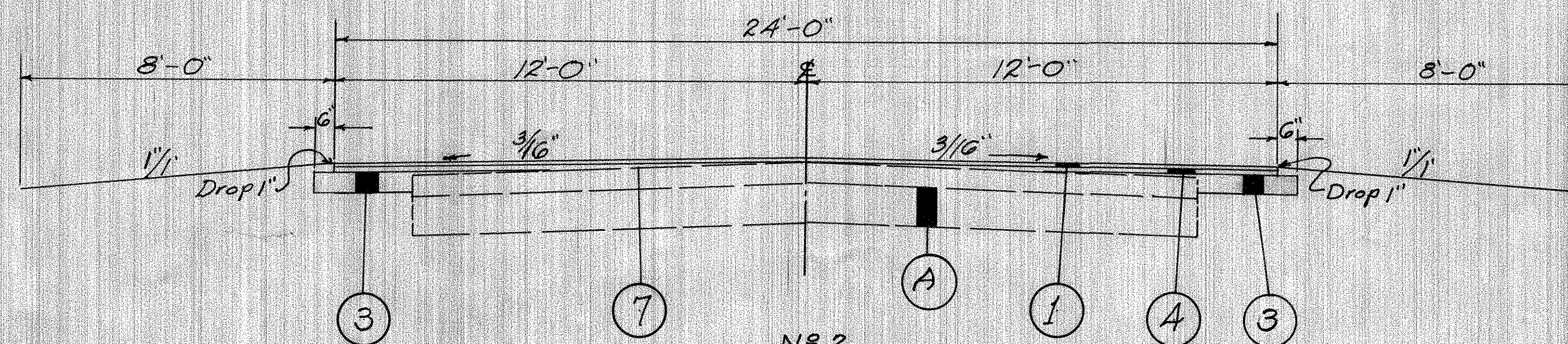
SHELBY COUNTY
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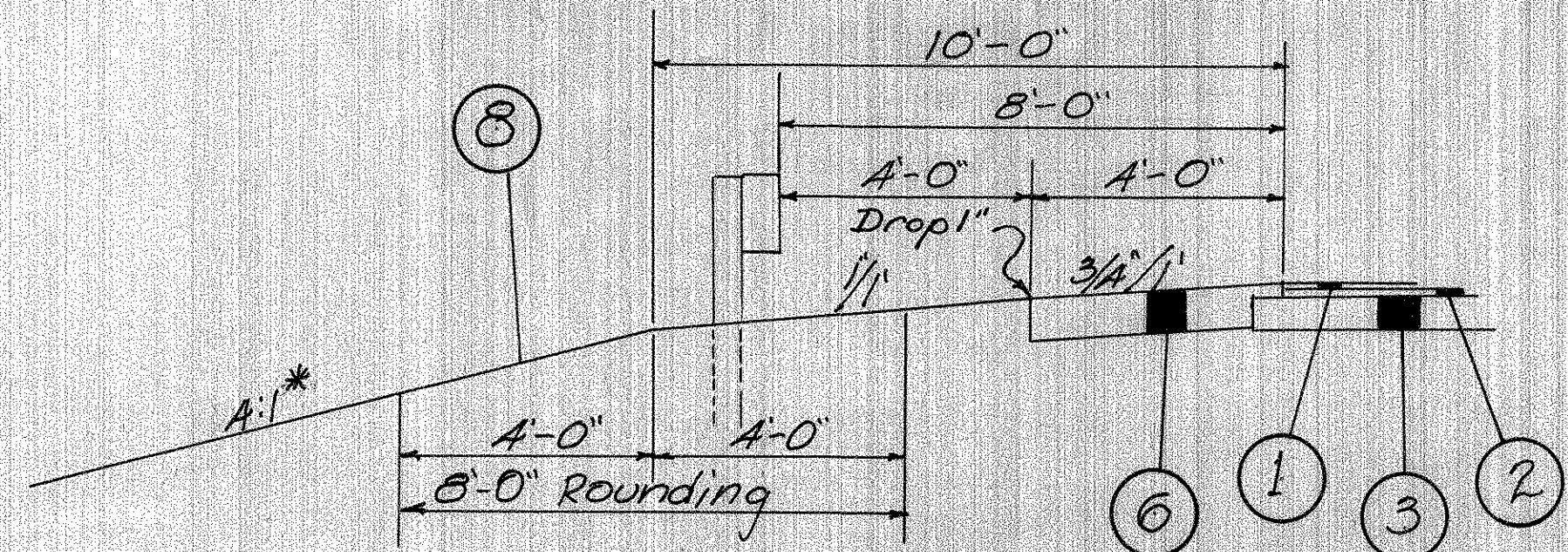
LIMITING STATIONS

184+75 TO 189+46.13	=	471.13 Lin. Ft.
189+46.13 TO 190+53.88	=	BRIDGE LIMITS AND APPROACH SLABS
190+53.88 TO 193+00.00	=	246.12 Lin. Ft.
Total	=	717.25 Lin. Ft.



LIMITING STATIONS

SEE EXAGGERATED CROSS SECTIONS		
183+50 TO 184+75	=	125 Lin. Ft.
193+00 TO 194+00	=	100 Lin. Ft.
Total	=	225 Lin. Ft.



GUARDRAIL SECTION

* Unless Otherwise Shown on X-Sections.

CODE

- ① ITEM 404 1" Asphalt Concrete (70-85 or AC-20)
- ② ITEM 402 1/4" Asphalt Concrete (70-85 or AC-20)
- ③ ITEM 301 6" Bituminous Aggregate Base 702.01 (85-100 or AC-20) or 702.03 (RT-11 or RT-12)
- ④ ITEM 402 0" to 1/4" Asphalt Concrete (70-85 or AC-20)
- ⑥ ITEM 304 8" Aggregate Base
- ⑦ ITEM 407 Tack Coat: MS-2, PS-1, SS-1, SS-1H or RC-250 at the rate of 0.10 Gal. per Sq. Yd. and Cover Aggregate at the Rate of 7 lbs. per Sq. Yd.
- ⑧ ITEM 659 Seeding and Mulching

Ⓐ Existing Pavement

GENERAL

NOTES

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FIELD OFFICE

The Contractor shall provide a suitable field office having minimum of 150 Sq. Ft. of floor space and in addition to the requirements of Item G19, he shall provide and maintain sanitary provisions as per 107.06. All the above is included in the lump sum price bid for Item G19, Field Office.

ROUNDING OF CORNERS SHOWN ON CROSS SECTIONS

The rounded corners shown on the Typical Sections, apply to all cross sections even though otherwise shown on these plans.

UNDERGROUND UTILITIES

The location of the underground utilities shown on the plans have been obtained by diligent field checks and searches of available records. It is believed that they are essentially correct, but the State of Ohio does not guarantee their accuracy or completeness.

REMOVAL OF EXISTING PIPE

The removal of all existing pipe drains which would normally be removed in various excavation items shall be included for payment in the unit price bid for the respective excavation items, unless otherwise itemized in the plans.

CONNECTIONS TO EXISTING PIPE

When the plans provide for proposed conduit to be connected to, or cross either over or under an existing sewer, 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 conduit.

Payment for all operations described above shall be included in the unit price bid for the pertinent G03 conduit items.

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 G03 conduit, Type B, one commercial size larger than the existing conduit.

Existing collectors and isolated farm drains which are encountered above the elevation of the roadway ditches shall be outletted into the roadway ditch by G03 Type F 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 G03 Type E Conduit and carried in a longitudinal direction to an adequate outlet or roadway crossing.

The location, type, size and grade of required replacement 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 G03 8" Conduit, Type B 70 Lin. Ft.
Item G03 8" Conduit, Type E 100 Lin. Ft.
Item G03 12" Conduit, Type F 20 Lin. Ft.

Necessary bends or branches shall be included for payment in the pertinent conduit item.

None of the above materials shall be ordered by the Contractor until requested by the Engineer.

PIPE ENDS

All culverts, whether terminating in headwalls or endwalls, shall begin and end with pipe ends as normally fabricated by the manufacturer. Ends shall not be cut to fit either skew or slope. If field cutting is found to be necessary to fit an exact length control, the cut end shall be located at an interior joint and cradle, collar or band shall be provided to assure a stable joint. Payment for the joint shall be included in the price bid for pertinent G03 conduit item.

EROSION CONTROL

Items G01 and G60 are provided in the plans for erosion control. Rock of a stable nature will not be removed in order to place any of these items. The Engineer shall check and reperform quantities or adjust locations and quantities for these items where indicated by field conditions during construction.

TREATED SANITARY FLOW INTO HIGHWAY DRAINAGE SYSTEMS

Treated sanitary flow may be discharged into the highway drainage system provided the owner has secured the approval of the local health authorities and has acquired from the State Highway Department, the official permit to have the connection made.

In each case where a permit has been issued for a sanitary connection to be made into a highway drainage conduit, it shall be provided with an inspection well, in accordance with the detail shown on standard drawing MC-B.

The following estimated quantities have been included in the general summary, for use as directed by the Engineer, in making the above described connections:

Item G03 6" Conduit, Type C 20 Lin. Ft.
* Item G04, Inspection Wells 1 Each.

Necessary bends or branches shall be included for payment in the pertinent conduit item.

None of the above materials shall be ordered by the Contractor until authorized by the Engineer.

* No inspection well is required if effluent is discharged into an open ditch, channel, catch basin or manhole.

MAINTAINING TRAFFIC

Two-way traffic shall be maintained at all times, except that for a period not to exceed three (3) consecutive months through traffic may be detoured as shown on Sheet 1.

Sign supports and lights for "ROAD CLOSED" signs shall be as detailed in the "Ohio Manual of Uniform Traffic Control Devices for Streets and Highways", current edition, latest revision.

Payment for providing, erecting, maintaining and removing, lights, signs and sign supports shall be included in the lump sum price bid for Item G14 Maintaining Traffic.

The following estimated quantities are included in the plans for the maintenance of local traffic and dust control:

410 Traffic Compacted Surface, Type A or B. 30 Cu. Yd.
G16 Calcium Chloride 0.5 Tons
G16 Water 1 M. Gal

All of the above, except items paid for under 410 and G16, shall be included in the lump sum bid for "Item G14 - Maintaining Traffic".

GUARD RAIL

The wheelguard, as shown on Standard Construction Drawing GR-3, across the bridge, shall be omitted.

GENERAL SUMMARY CONT'D

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404	ASPHALT CONCRETE (70-85)
From Typical Section N ^o 1	717.25 Lin Ft.
$717.25 \times 24 \times 1 \div (12 \times 27)$	= 53.13 Cu. Yd.
Total To General Summary	53.13 Cu. Yd.
402	ASPHALT CONCRETE (70-85)
From Typical Section N ^o 1	717.25 Lin Ft.
$717.25 \times 24 \times 1.25 \div (12 \times 27)$	= 66.41 Cu. Yd.
Total To General Summary	66.41 Cu. Yd.
304	AGGREGATE BASE
From Typical Section N ^o 1	717.25 Lin Ft.
$717.25 \times 3.5 \times 8 \div (12 \times 27) \times 2$	= 123.97 Cu. Yd.
$717.25 \times 0.5 \times 2.25 \div (12 \times 27) \times 2$	= 4.98 Cu. Yd.
Total To General Summary	128.95 Cu. Yd.
301	BITUMINOUS AGGREGATE BASE
From Typical Section N ^o 1	717.25 Lin Ft.
$717.25 \times 25 \times 6 \div (12 \times 27)$	= 332.06 Cu. Yd.
Total To General Summary	332.06 Cu. Yd.
203	SUBGRADE COMPACTION
From Typical Section N ^o 1	717.25 Lin Ft.
$717.25 \times 2.5 \div 9$	= 199.2 Sq. Yd.
Total To General Summary	199.2 Sq. Yd.
655	COMMERCIAL FERTILIZER (12-12-12)
From Roadside Improvement Table	6846 Sq. Yd.
From Channel Sections	600 Sq. Yd.
Total	7546 Sq. Yd.
$546 \text{ Sq. Yd.} \times 9 \times 20 \div (1000 \times 2000)$	= 0.68 Ton
Total To General Summary	0.68 Ton

ITEM SPECIAL - MEMBRANE WATERPROOFING (Liquid Type)

Description. This item shall consist of furnishing the necessary labor, materials and equipment to prepare the surface, waterproof and protect bridge decks.

Materials. The materials shall be one of the following systems:

Firestone Tire and Rubber Company Sealing Compound - No. 526, Solvent - No. 607, Tack Coat - Cutback asphalt, 702.02 or emulsified asphalt, 702.04.

Goodyear Tire and Rubber Company Sealing Compound - Pliopave L-90, Solvent - Methyl Ethyl Ketone, Tack Coat - Cut-back asphalt, 702.02, or emulsified asphalt, 702.04.

Uniroyal, Inc. Surface Conditioner Standard Elasto Sheet Liquid Waterproofing No. 6125

Gilsabind Corporation Tack Coat - Gilsabind Membrane - Husky Deck No. 4

In the event that Firestone or Goodyear materials are selected, the following preparation and application procedures will be used.

Preparation of Existing Surface. Prior to placing the sealing compound, the bridge deck surface shall be cleaned of foreign material, loose concrete, and membrane curing compound and etched by applying acid or by sand blasting or by other mechanical means. Where acid is used, the application shall be preceded by further cleaning using water and a detergent designed for removing oil deposits from concrete surfaces together with power or push broom scrubbing. The residue and detergent shall be thoroughly flushed from the surface. While the surface is wet, commercial hydrochloric acid shall be applied uniformly at the rate of one gallon per 100 square feet. Immediately after the acid stops foaming, the residue shall be removed by thorough brooming and flushing with water. Where sand blasting or other mechanical means are used, the deck surface shall be treated uniformly in such a manner that surface glaze and laitance is removed. Traffic shall not be permitted on the cleaned deck prior to application of the membrane.

Application of Sealing Compound. The bridge deck surfaces shall be dry and free of dust and loose particles at the time of application of the sealing compound, and air temperature shall not be less than 50 degrees Fahrenheit. The sealing compound shall not be heated and precautions shall be taken to avoid fire hazards. The sealing compound shall be applied as follows:

(A) First Coat. For the first coat, the sealing compound shall be mixed with equal part of solvent. This mixture shall be applied to the prepared surfaces and spread, using suitable brushes, at a rate not less than 0.10 gallon per square yard as required to fill cracks and obtain uniform coverage. This coat shall be permitted to cure for approximately two hours or until there is no tendency to adhere to workmen's shoes before the application of the second coat.

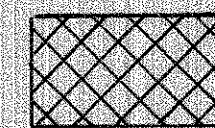
(B) Second Coat. For the second coat the sealing compound shall be applied undiluted and spread uniformly, using suitable brushes, at the rate of 0.15 gallon per square yard. No further work or traffic shall be permitted on the surface until the second coat has cured sufficiently, in the opinion of the Engineer, to support the equipment being used, without rupturing the membrane.

(C) Patch Coat. If the surface is not satisfactory after application of the second coat, due to excessive bubbles or holes, additional sealing compound shall be applied as directed by the Engineer.

Protection of Membrane. Traffic will not be permitted on the membrane until a tack coat and a protective layer of sand-asphalt has been placed and compacted. The tack coat shall be applied by spraying and/or brushing to produce complete and uniform coverage of the membrane surface at the rate of 0.05 to 0.10 gallons per square yard.

In the event that Uniroyal or Gilsabind materials are selected, the following preparation and application procedures will be used.

Preparation of Existing Surface. Prior to placing the primer, the bridge deck surface shall be level and free of protrusions, cleaned of foreign material, loose concrete and membrane curing compound followed by further cleaning using water and a detergent designed for removing oil deposits from concrete surfaces together with power and push broom scrubbing. The residue and detergent shall be thoroughly flushed from the surface. Traffic shall not be permitted on the cleaned deck prior to the application of the membrane.



2" of A04 Asphalt Concrete (70-85 or AC 20) 108 Bituminous Prime Coat 702.09 RT-2 or RT-3 applied at the rate of 0.4 Gal. per Sq. Yd. on 5" 30A Aggregate Base.

Feather A04 Asphalt Concrete (70-85 or AC-20) on A07 Tack Coat applied at the rate of 0.1 Gal per Sq. Yd. on existing pavement.

Application of Primer and Membrane. The bridge deck surfaces shall be dry and free of dust and loose particles at the time of application of the primer membrane and sealer. Ambient surface and material temperatures should be not less than 50 degrees Fahrenheit during application of primer and membrane to insure a good bond. The primer and membrane shall be applied in accordance with the manufacturer's recommendations for application of the primer and membrane. **Protection of Membrane.** Traffic will not be permitted on the membrane until a protective layer of the surface course is placed. When Uniroyal or Gilsabind materials are selected, the 1/2" sand-asphalt shall be non-performed and the surface course increased 1/2".

For any of the materials selected the following procedures shall be used. The membrane shall overlap three inches (3") on the adjoining lane.

Manufacturer's Representative. The manufacturer's technical representative shall be notified in order that he can provide the Engineer with recommended procedures and he shall also be present during the initial installation.

Method of Measure. The quantity of waterproofing shall be the number of square yards of surface covered.

Basis of Payment. The accepted quantities of waterproofing will be paid for at the contract unit price per square yard, which price and payment shall be full compensation for preparing existing surface and furnishing and placing all materials, including tack coat but excluding the protective layer of surface course or sand-asphalt.

Payment will be made under:

Item	Unit	Description
Special	Square Yard	Membrane Waterproofing (Liquid Type)

EARTHWORK TABLE					Roadside Improvement Table
Sheet No.	Station		203 Excavation Not Including Embankment	203 Embankment	Seeding & Mulching
	From	To	Cu. Yd.	Cu. Yd.	Sq. Yd.
	183+00	189+69.88	310	2613	4430
	190+30.13	195+00	169	1336	2516
	From Channel Sections		625	9	600
Total To General Summary			1104	3958	7546

GENERAL SUMMARY CONT'D - CALCULATIONS

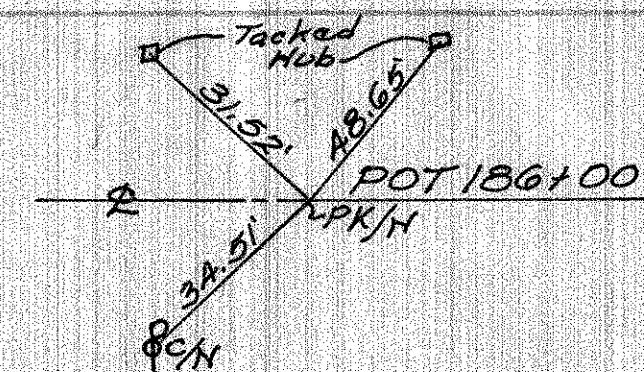
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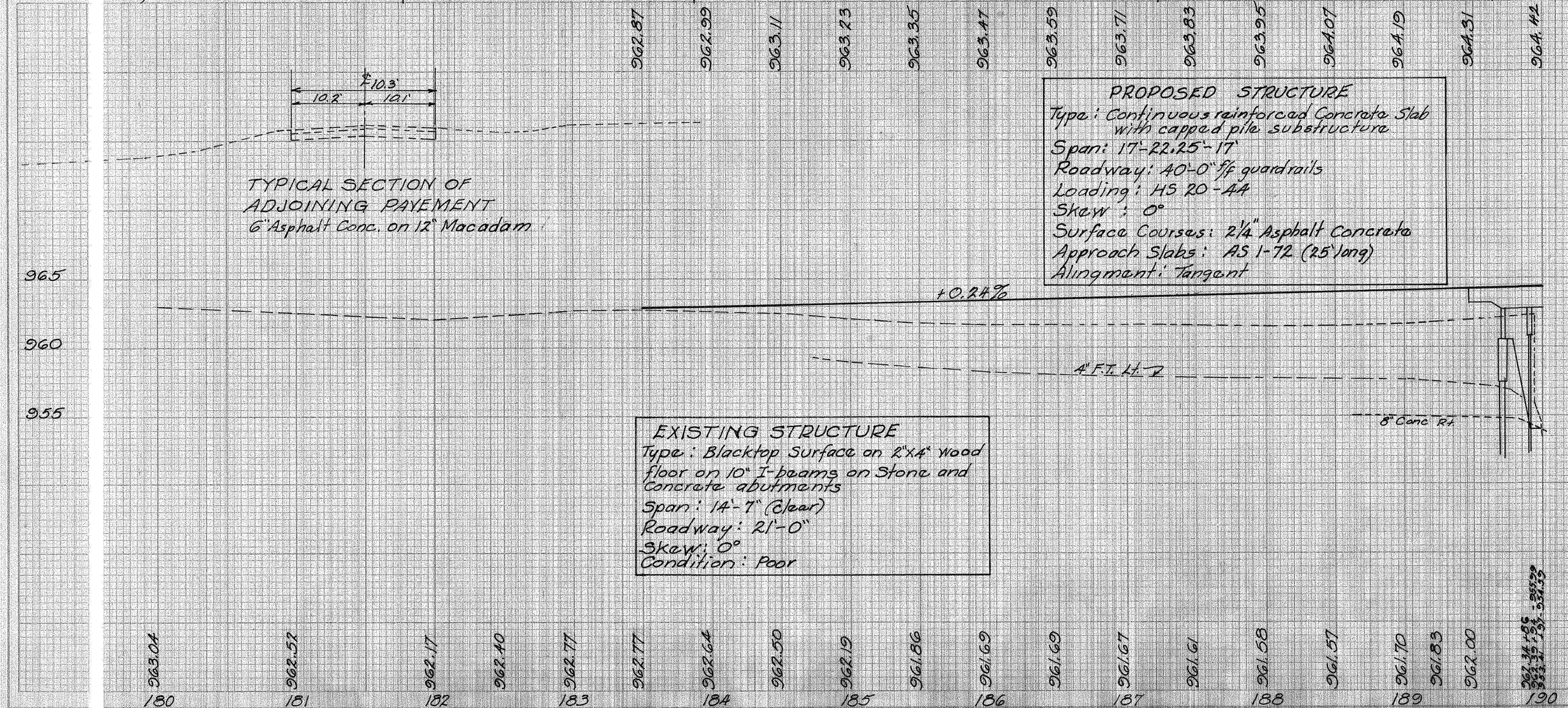
LD 0304 12 29-67

PLAN	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
TOPO	CEP	4-73	CEK	7-73				
GEOMETRICS	EP	6-73	CEK	7-73				
DITCHES	BR	6-73	CEK	7-73				
STORM SEWERS								
CULVERTS								
PAV'T QUANT	EP	7-73	CEK	7-73				
WORK LIMITS	EP	7-73	CEK	7-73				
PROP. R/W	EP	7-73	CEK	7-73				
PAV'T QUANT								



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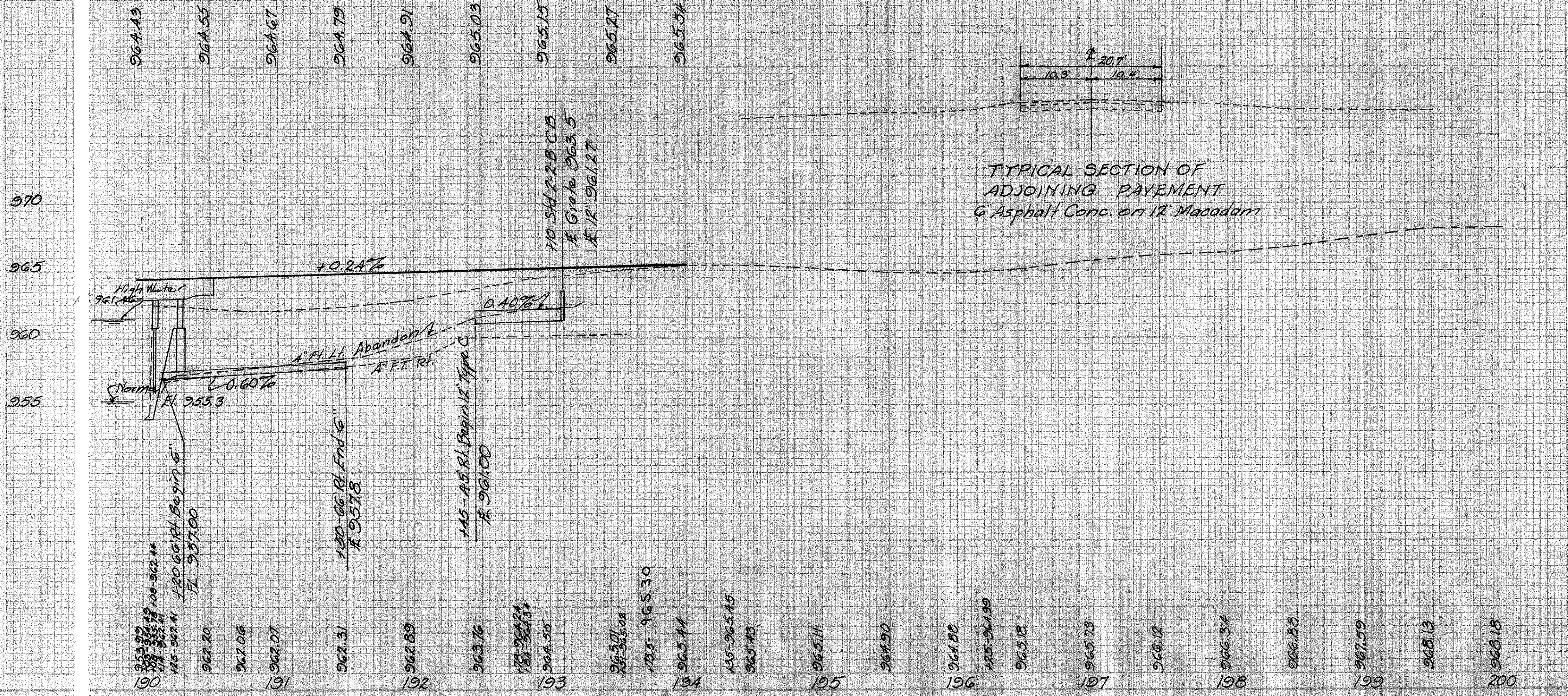
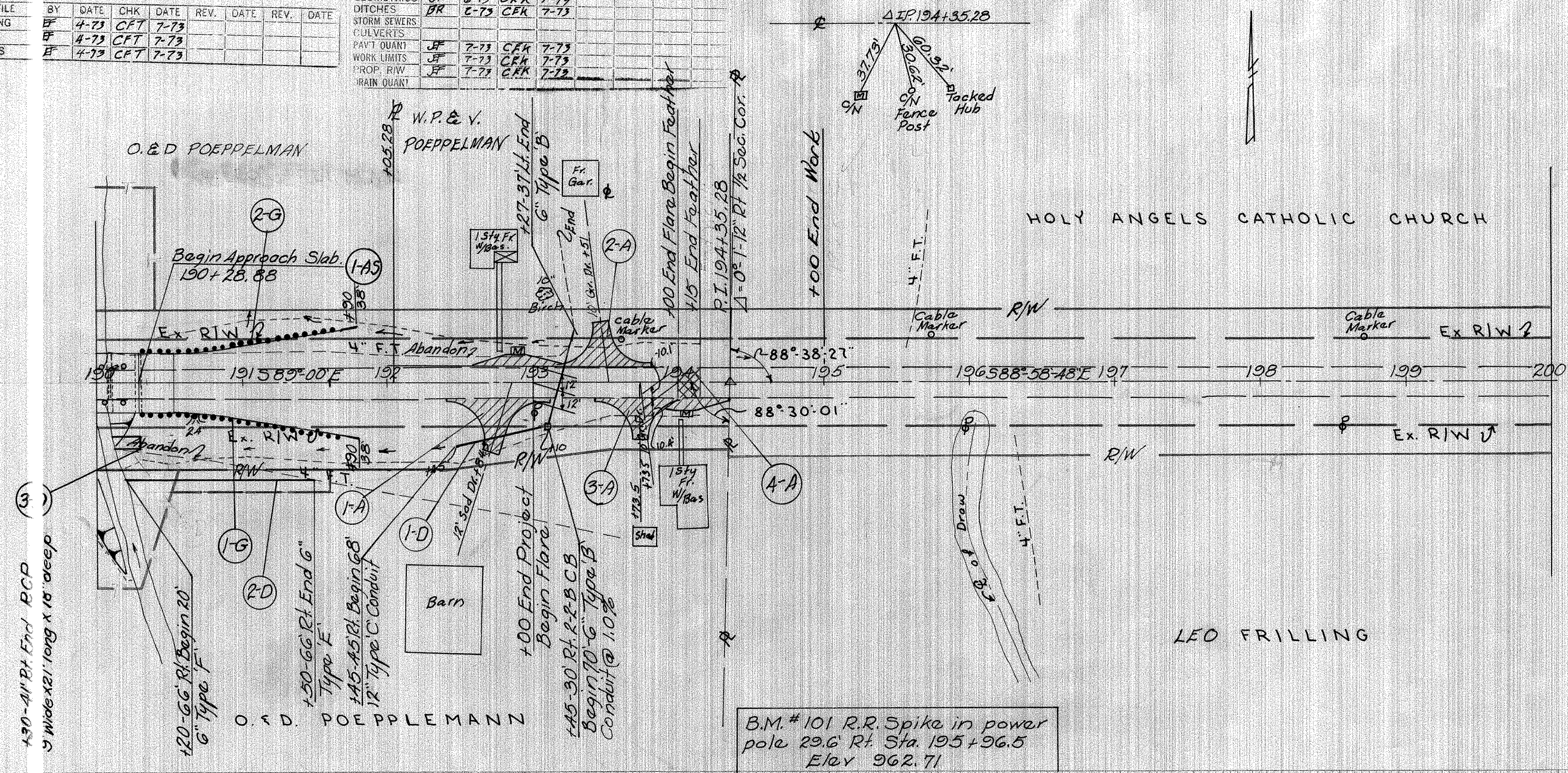
PROFILE	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	BF	4-73	CFT	7-73				
GRADE	BF	4-73	CFT	7-73				
B.M.'S	BF	4-73	CFT	7-73				

PLAN	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
TOPG	BF	4-73	CFT	7-73				
GEOMETRICS	JH	6-73	CFK	7-73				
DITCHES	BR	6-73	CFK	7-73				
STORM SEWERS								
CULVERTS	JH	7-73	CFK	7-73				
PAV'T QUANT	JH	7-73	CFK	7-73				
WORK LIMITS	JH	7-73	CFK	7-73				
*PROP. R/W	JH	7-73	CFK	7-73				
*RAIN QUANT								

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ESTIMATED QUANTITIES

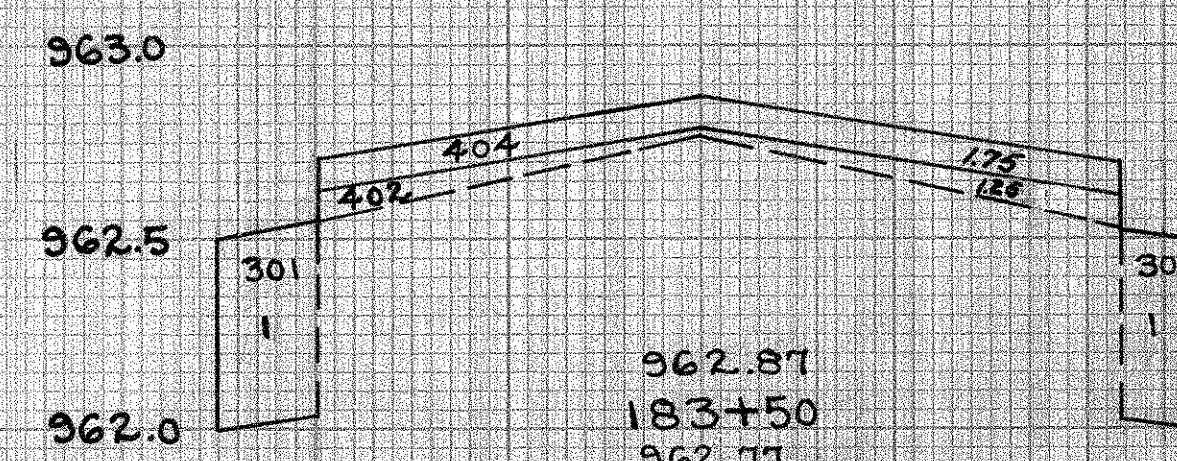
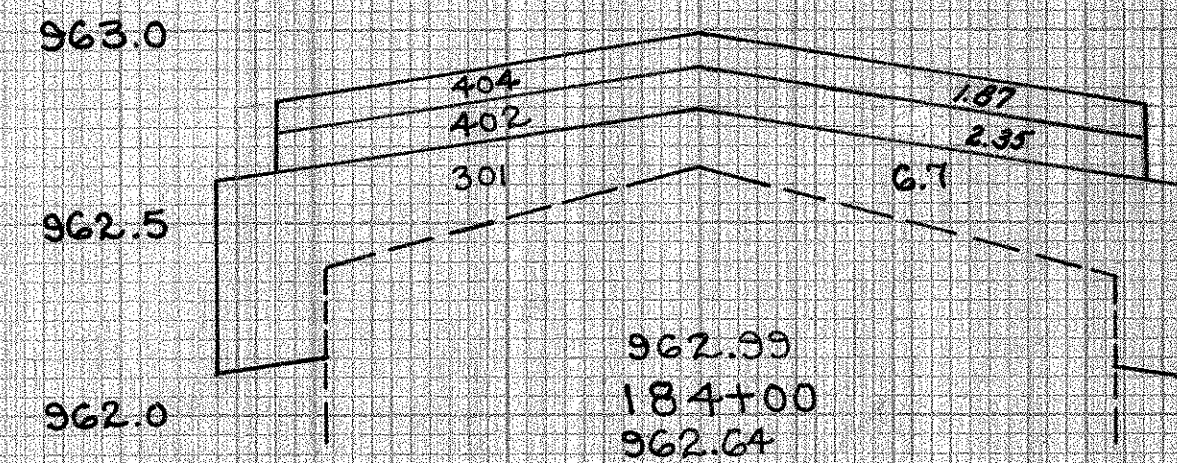
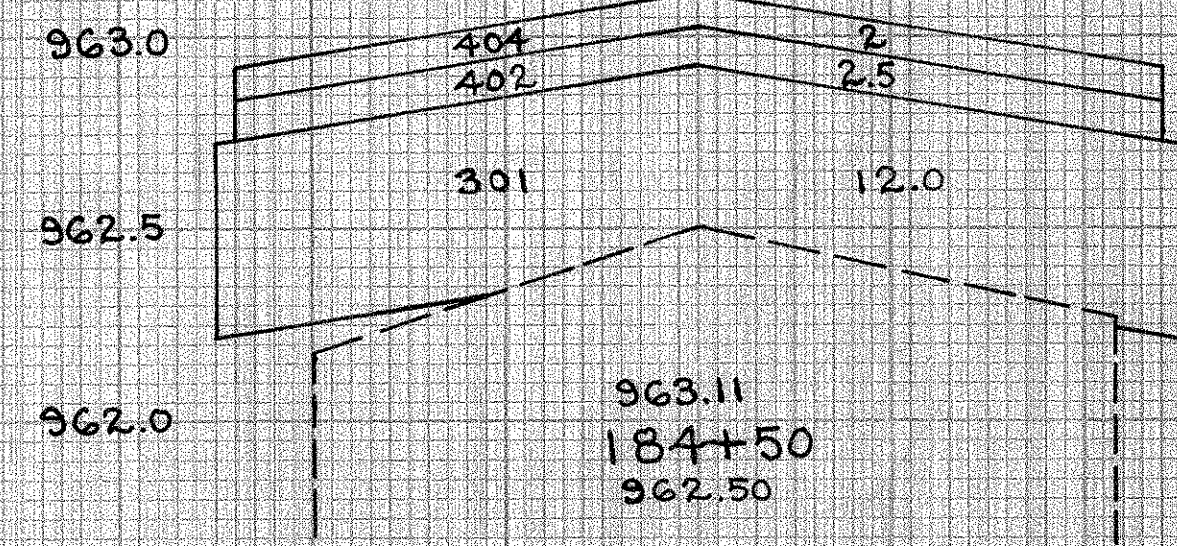
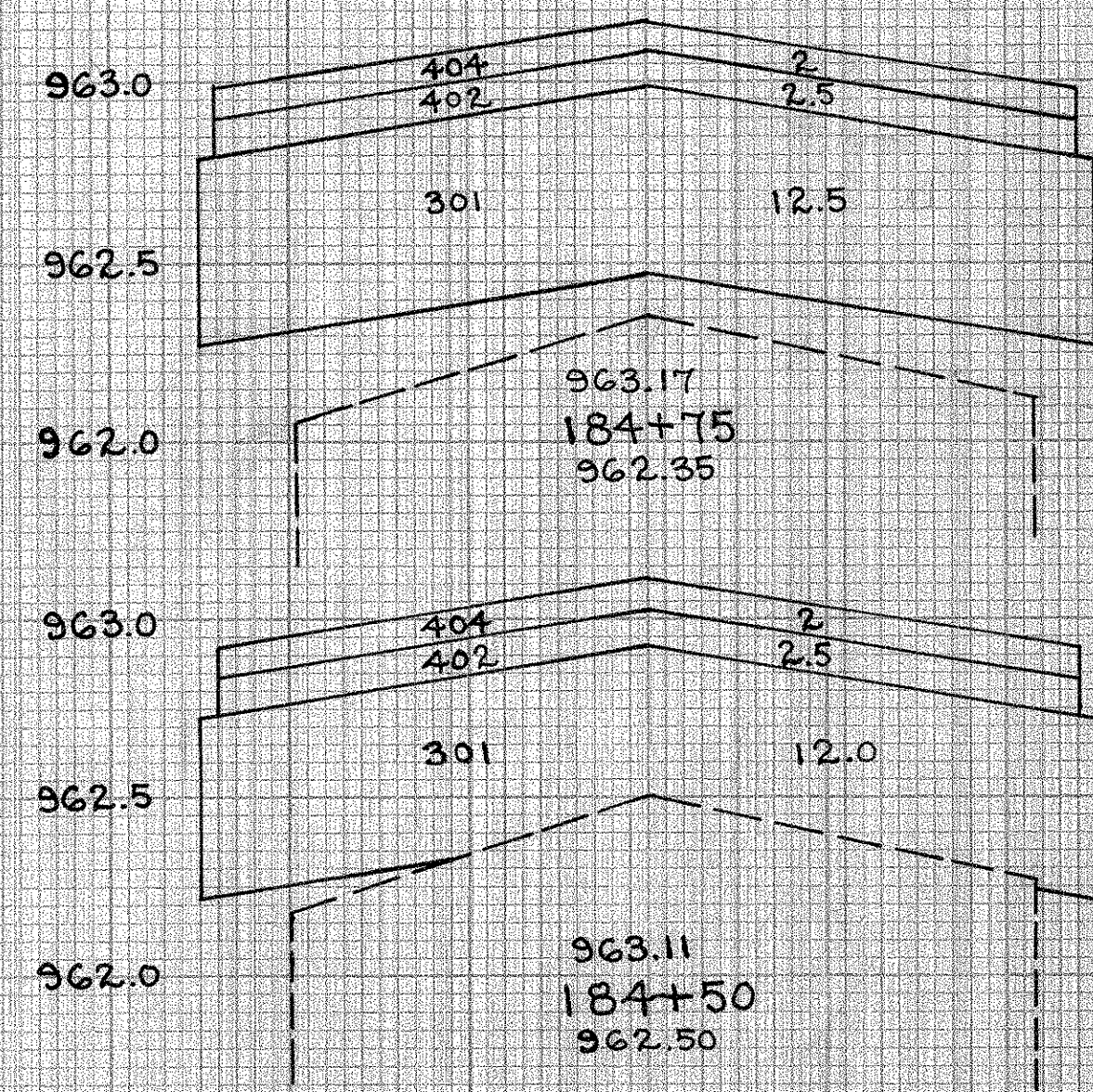
ITEM	STATION TO STATION	SIDE	404	408	304	603	604	606	603
1-A	192+84.5	RT	5.05	32	11.13				
2-A	193+51	LT	6.83	52	18.21				
3-A	193+73.5	RT	9.65	25	8.63				
4-A	194+00 to 194+15		0.41						
1-D	192+45 to 193+10	RT							
2-D	190+20 to 191+50	RT							
3-D	190+19 to 190+30	RT							
1-G	190+28.88 to 191+90.1	RT							
2-G	190+88 to 191+50.1	LT							
1-AS	190+28.88 to 190+33.83	Left							

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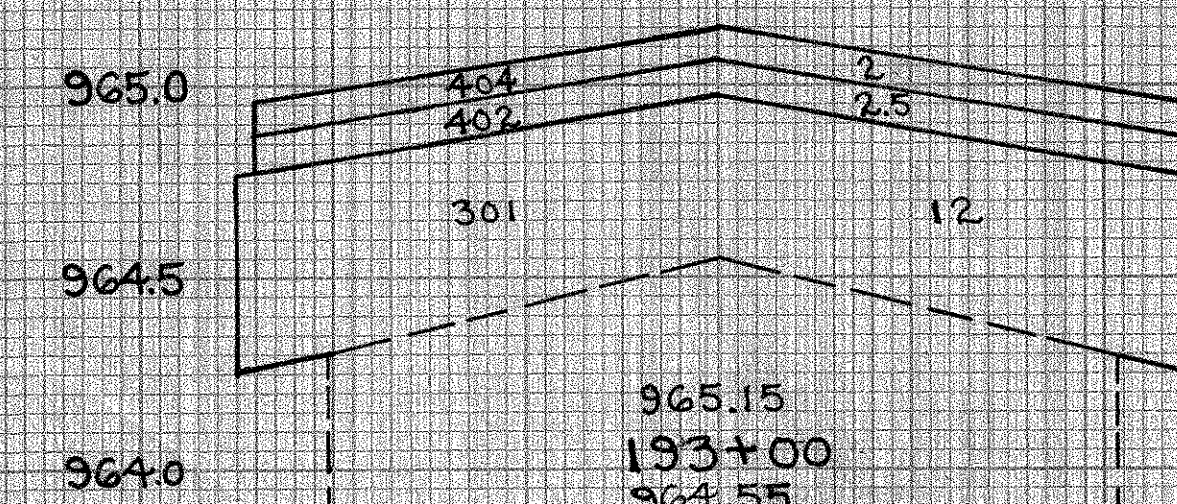
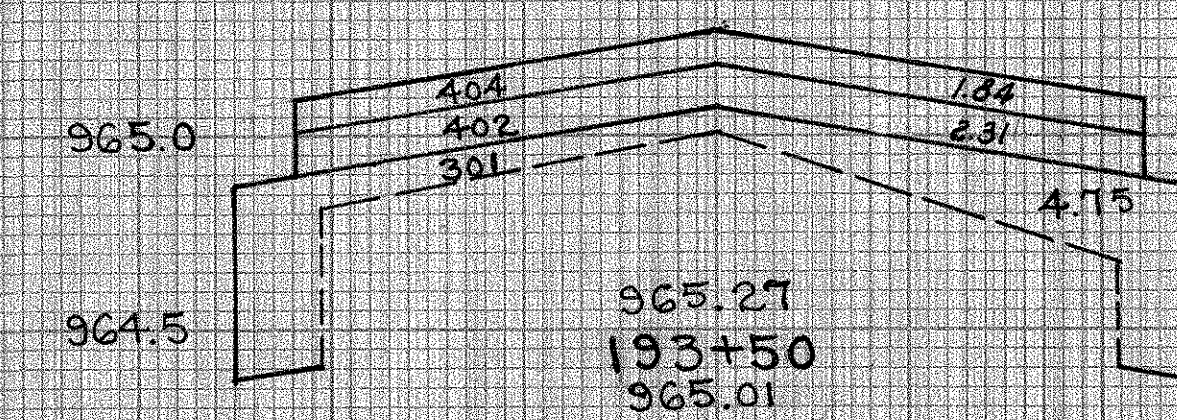
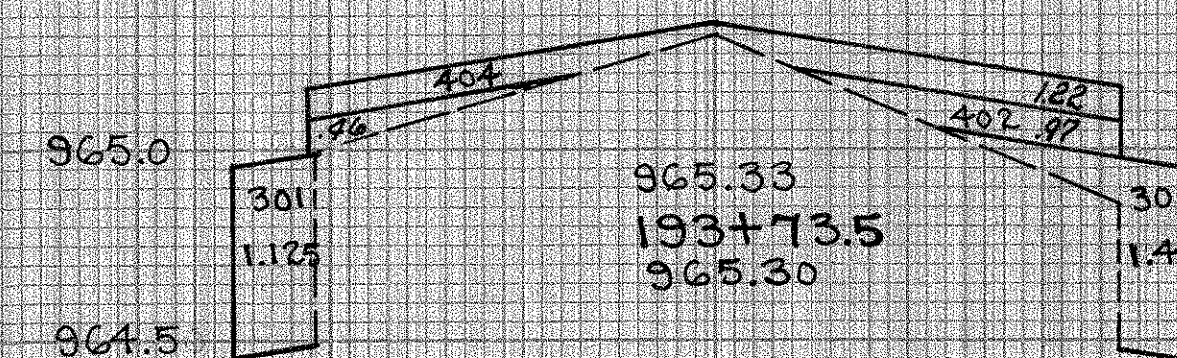
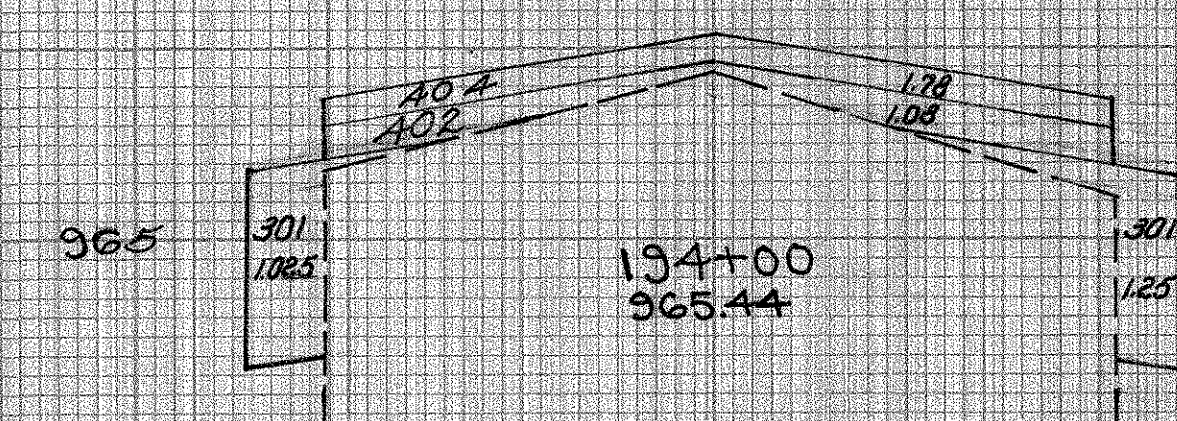
PLAN & PROFILE STA 190+00 TO STA. 200+00

SHELBY COUNTY
SHE-119-3.48

END AREA
CUT FILL
VOLUME
CUT FILL



ESTIMATED QUANTITIES									
Station	404 1" Asphalt Concrete	402 1 1/4" Asphalt Concrete	407 Tack Coat @ 0.1 Gal. Per Sq. Yd.	301 6" Bit. Aggregate Base	407 Cover Aggr. 7" / Sq. Yd.				
	Sq. Ft.	Cu. Yd.	Sq. Ft.	Cu. Yd.	Lin. Ft.	Sq. Yd.	Gals.	Sq. Ft.	Cu. Yd.
183+50	175	1.25	21			2			
	3.5	3.5		113.9	11.4	8.5	113.9	0.4	
184+00	187	2.35	21			6.7			
	3.5	4.5		105.5	10.5	17.5	102.5	0.36	
184+50	2	2.5	17			12			
	1.7	2.25		52.8	5.3	11.5	52.8	0.18	
184+75	2	2.5	21			12.5			
Total	87	10.25		27.2		37.5		0.94	
193+00	2	2.5	21			12			
	3.5	4.5		115.3	11.5	15.5	115.3	0.35	
193+50	184	2.31	21.5			4.75			
	1.5	1.75		56.8	5.7	3.0	56.8	0.2	
193+73.5	122	1.43	22			1.5			
	1.5	1		64.0	6.4	17.5	64.0	0.22	
194+00	178	1.08	21.5			2.27			
Total	65	7.25		23.6		20.25		0.77	
Total to Gen. Sum.	152	17.50		50.8		57.75		1.71	



EXAGGERATED SECTIONS

SEEDING
END WIDTH
SQ. YDS.

70 60 50 40 30 20 10 0 10 20 30 40 50 60

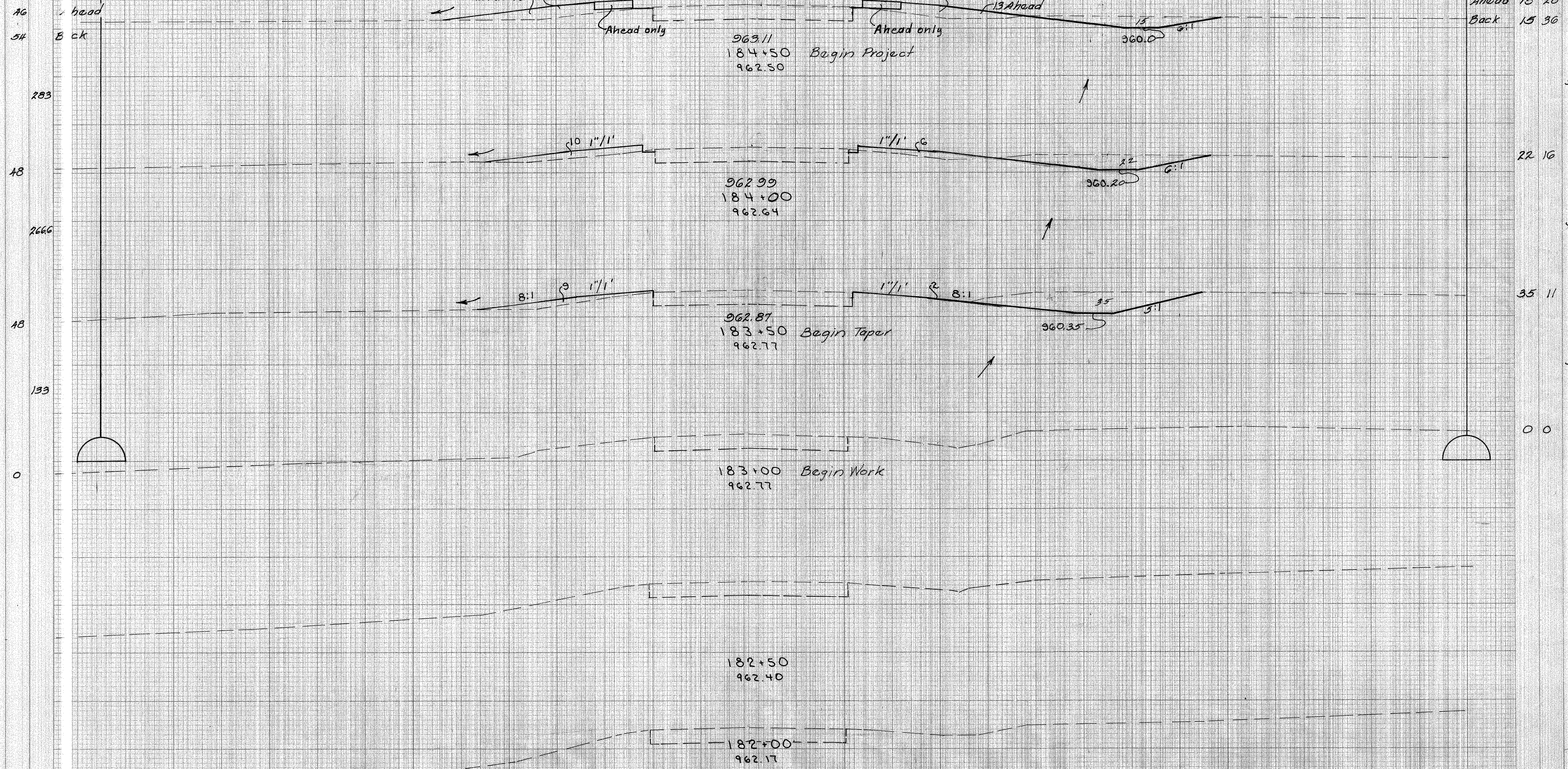
EXISTING	BY	DATE	CHK.	DATE	REV.	DATE	REV.	DATE
JF	JF	4-73	JAW	4-73				
TEMPLATE	CFT	7-73	JF	7-73				
DITCHES								
AREAS	JF	7-73	CFT	7-73				
VOLUMES	JF	7-73	CFT	7-73				
SEEDING	JF	7-73	CFT	7-73				

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

9
30

SHELBY COUNTY
SHE 119-3.48

END AREA		VOLUME	
CUT	FILL	CUT	FILL



Ahead 15 28
Back 15 36

34 48

22 16

53 25

35 11

32 10

0 0

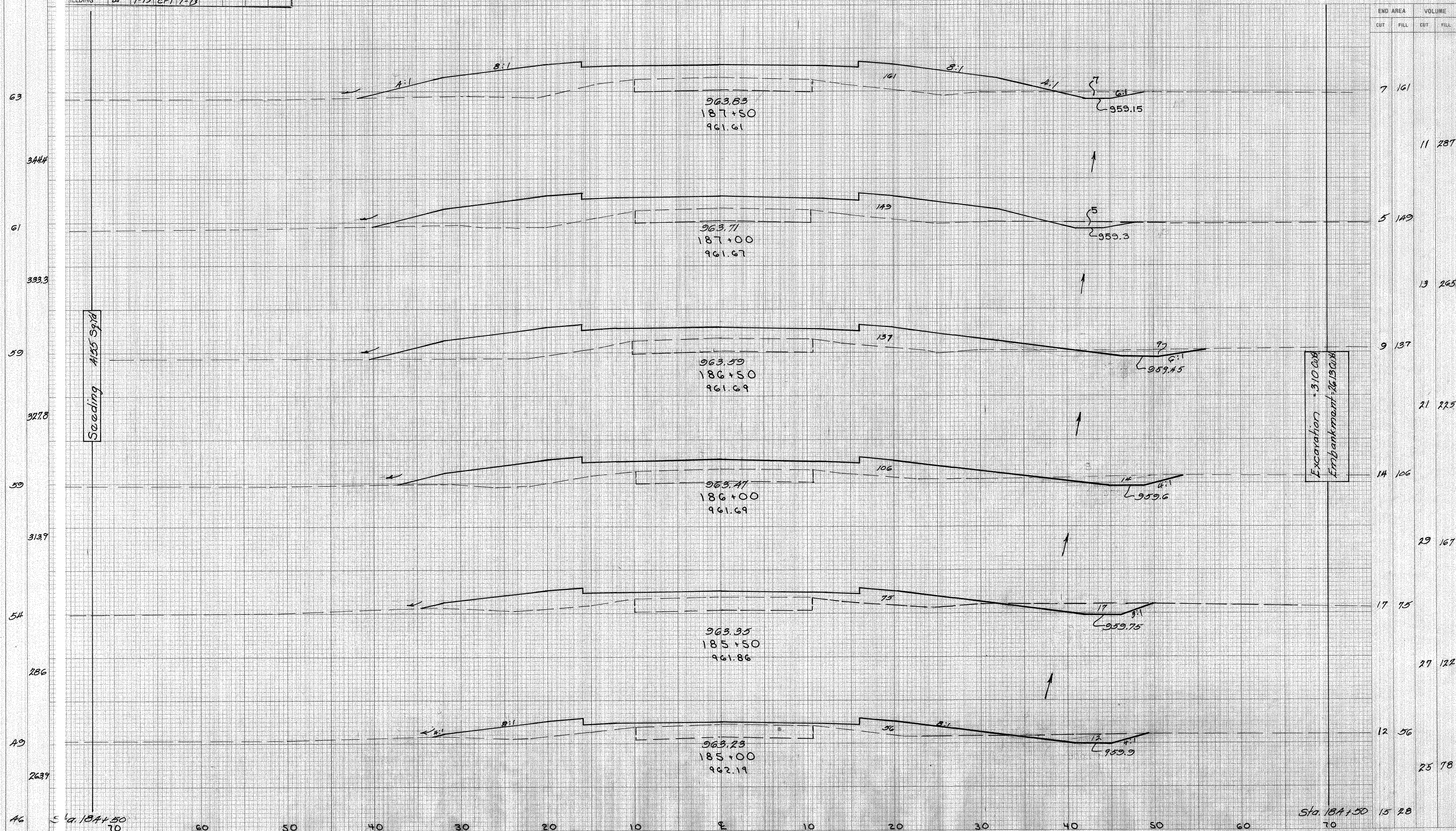
SEEDING
END
WIDTH
SQ.
YDS.

EXISTING	BY	DATE	CHK.	DATE	REV.	DATE	REV.	DATE
TEMPLATE	JF	4-73	JAN	4-73				
DITCHES	JF	7-73	CFT	7-73				
AREAS	JF	7-73	CFT	7-73				
VOLUMES	JF	7-73	CFT	7-73				
SEEDING	JF	7-73	CFT	7-73				

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

10
30

SHELBY COUNTY
SHE - 119-348



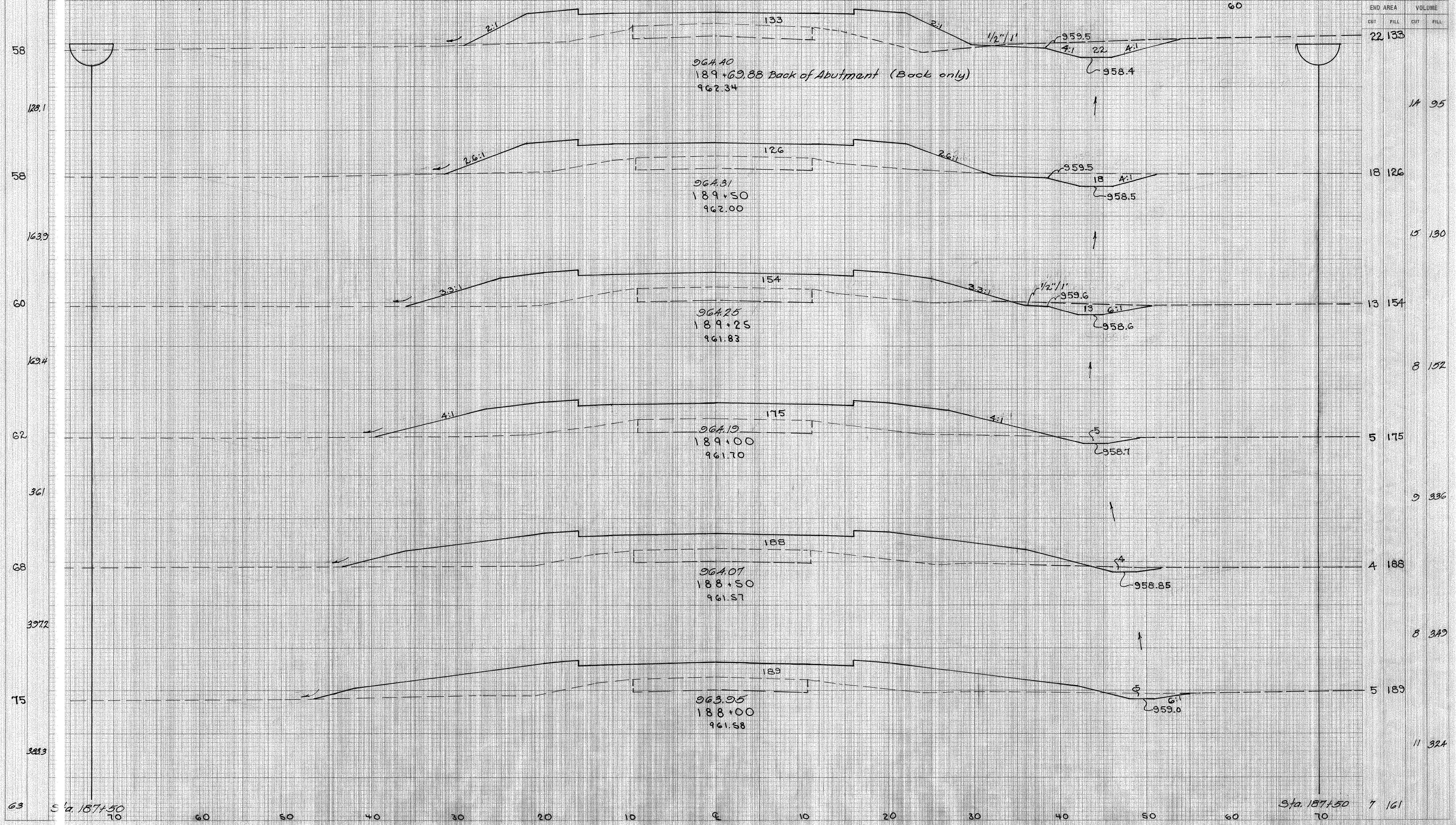
X-SECTIONS STA. 185+00 TO 187+50

SEEDING	SO.
WIDTH	YDS.

	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
EXISTING	JF	4-73	JAW	4-73				
TEMPLATE	JF	7-73						
DITCHES								
AREAS	JF	7-73						
VOLUMES	JF	7-73						
SEEDING	JF	7-73						

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

SHELBY COUNTY
SHE-119-348



X-SECTIONS STA. 188+00 TO 189+86

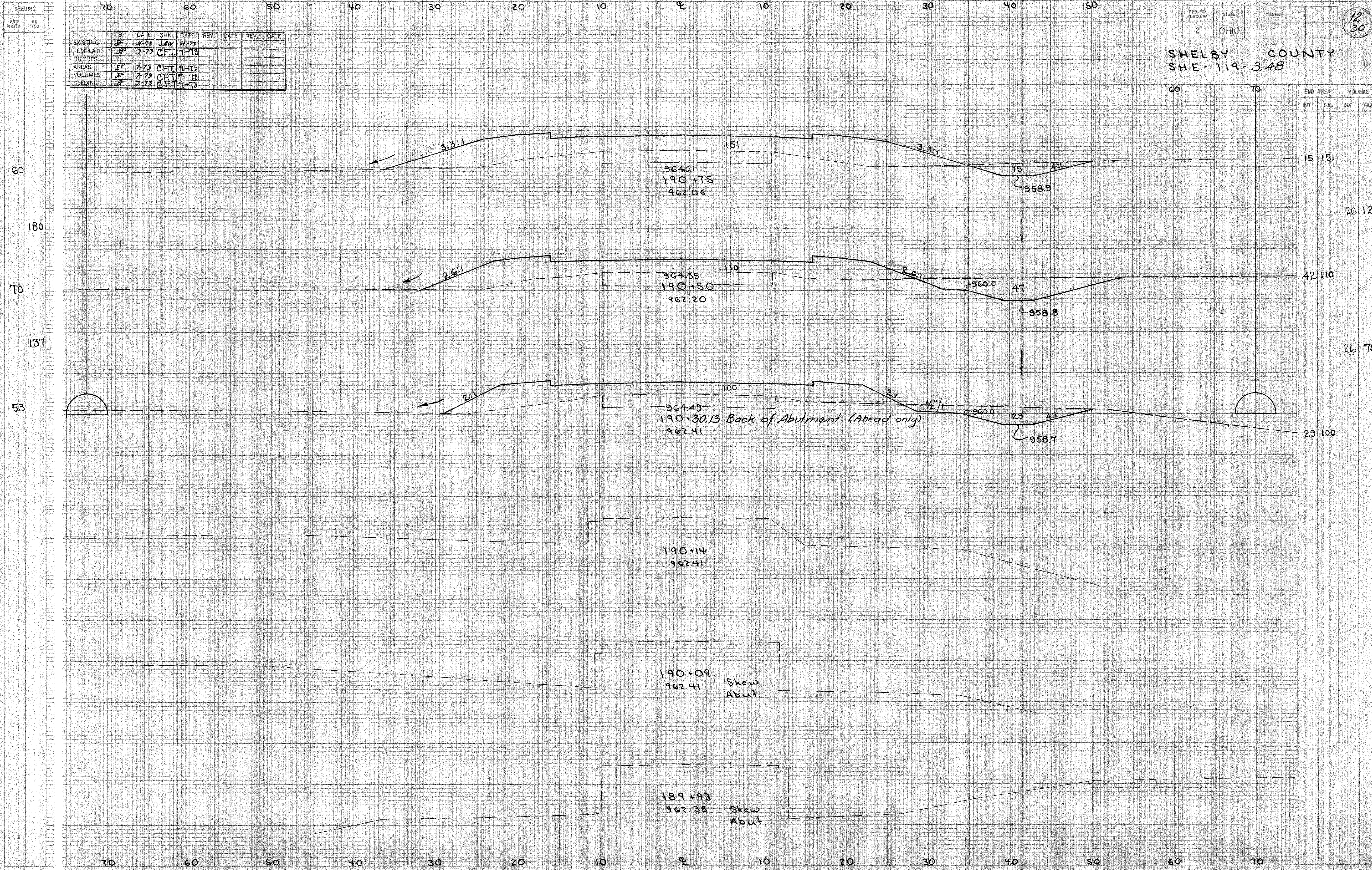
SEEDING	
END WIDTH	SQ. YDS.

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

12
30

SHELBY COUNTY
SHE-119-3.48

END AREA		VOLUME	
CUT	FILL	CUT	FILL



EXISTING	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
JE	JE	4-73	JAW	4-73				
TEMPLATE	JE	7-73	CFT	7-13				
DITCHES								
AREAS	JE	7-73	CFT	7-13				
VOLUMES	JE	7-73	CFT	7-13				
SEEDING	JE	7-73	CFT	7-13				

10 20 30 40 50

965.11
192+84.5 Dr. Rt.
964.34

1 1/2" / 1"

3%

12" Conduit

Existing Walk?
Do not disturb

1 1/2" / 1"

965.09
192+78 Walk Lt. on sk.
964.24

965.03
192+50
963.76

48

24

+45
A:1
961.0

964.91
192+00
962.89

115

964.79
191+50
962.31

182

964.67
191+00
962.07

193

959.5

959.0

Sta 190+75

10 20 30 40 50



Add For Dr. Rf.
192 + 84.5

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		1	5
24	48		
		31	243
9	115		
		11	275
3	182		
		4	347
2	193		
		8	159
15	151		

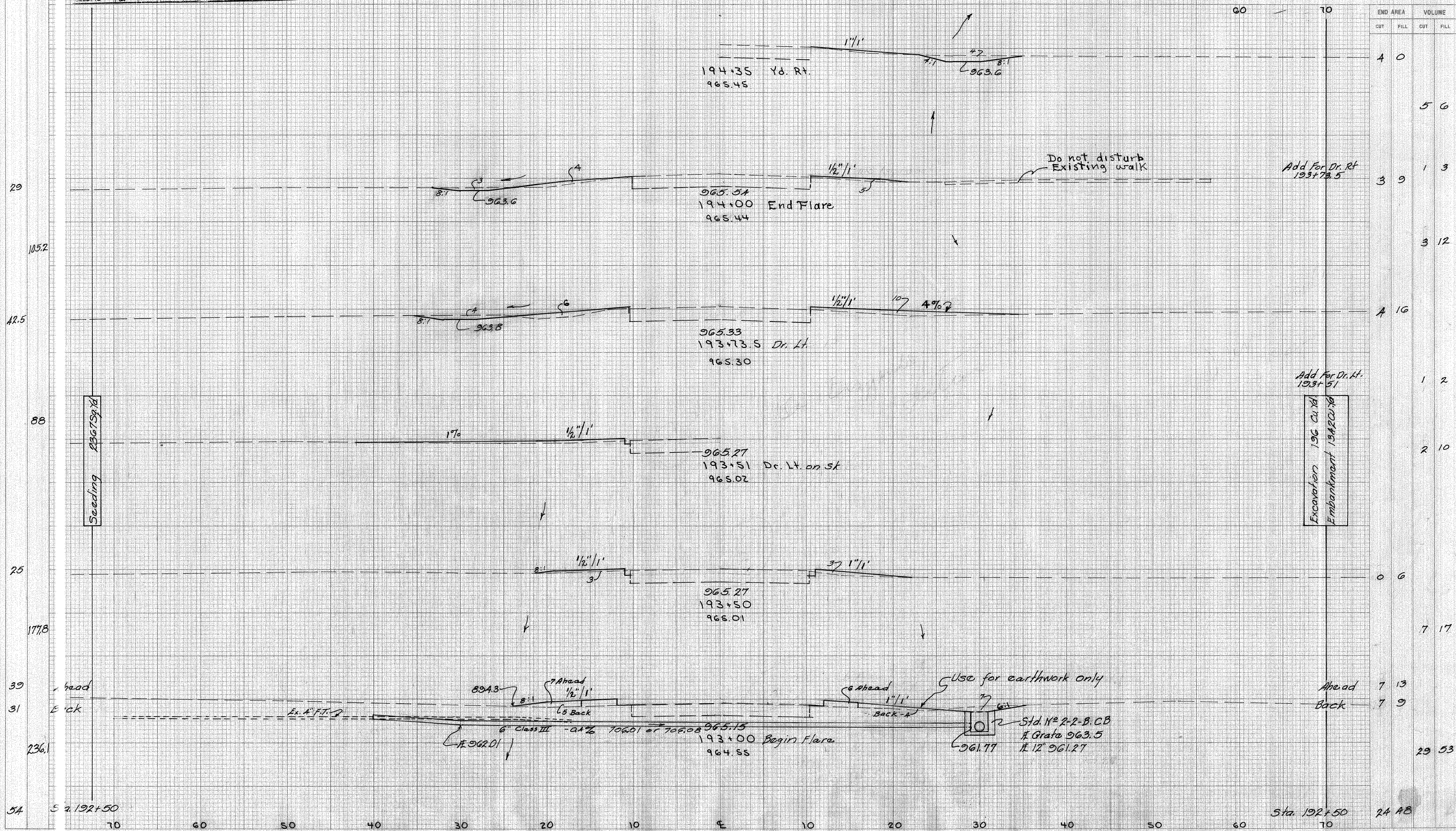
X-SECTIONS STA. 191+00 TO 192+84.5

	BY	DATE	CHK.	DATE	REV.	DATE	REV.	DATE
EXISTING	JEF	4-73	JRW	4-73				
TEMPLATE	JEF	7-73	CFT	7-73				
DITCHES								
AREAS	JEF	7-73	CFT	7-73				
VOLUMES	JEF	7-73	CFT	7-73				
SEEDING	JEF	7-73	CFT	7-73				

FED RD DIVISION	STATE	PROJECT	
2	OHIO		

SHELBY COUNTY
SHE-119-3.48

END AREA		VOLUME	
CUT	FILL	CUT	FILL



X-SECTIONS STA. 193+00 TO 194+35

SEEDING
END WIDTH
SQ. YDS.

70 60 50 40 30 20 10 0 10 20 30 40 50

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

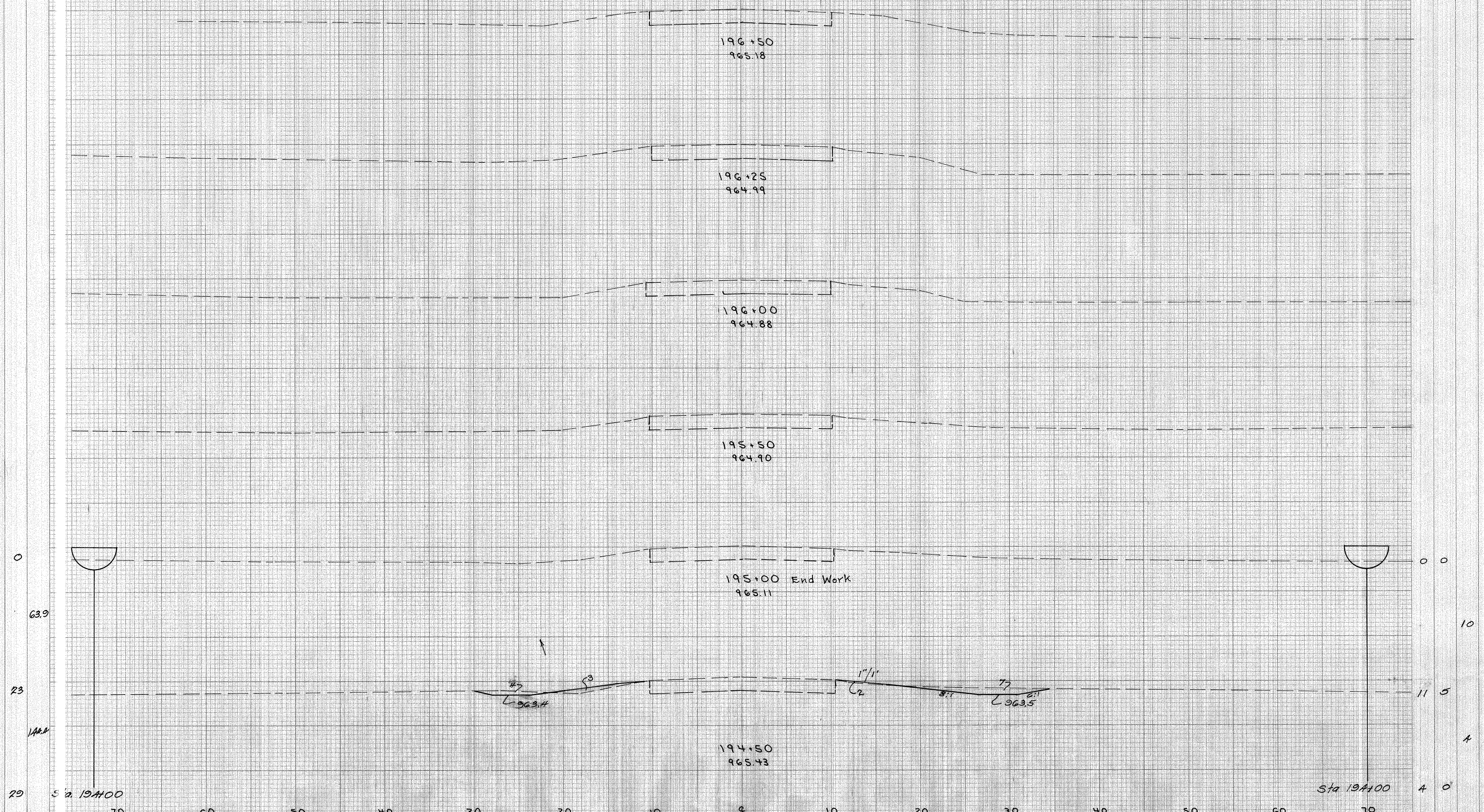
15
30

SHELBY COUNTY
SHE-119-3A8

60

END AREA		VOLUME	
CUT	FILL	CUT	FILL

EXISTING	BY	DATE	CHK	DATE	REV.	DATE	REV.	DATE
TEMPLATE	JF	1-73	JAW	1-73				
DITCHES	JF	7-73	CAT	7-73				
AREAS	JF	7-73	CAT	7-73				
VOLUMES	JF	7-73	GFT	7-73				
SEEDING	JF	7-73	CAT	7-73				

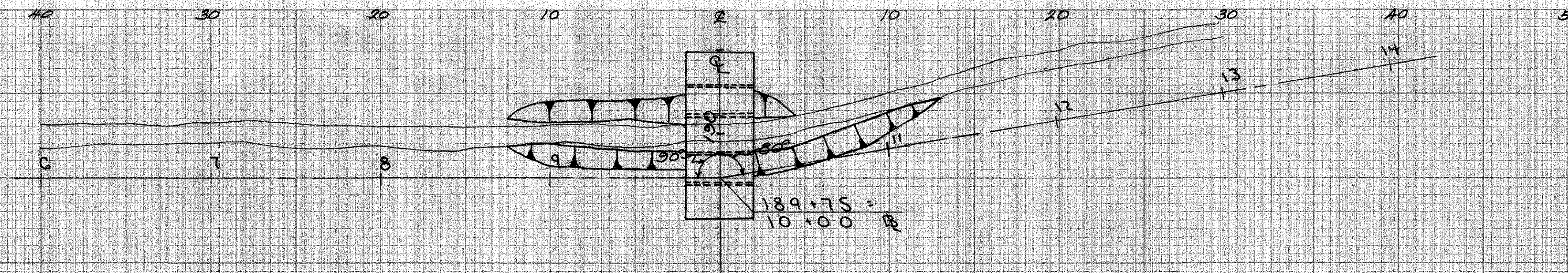


X-SECTIONS STA 194+50 TO 196+50

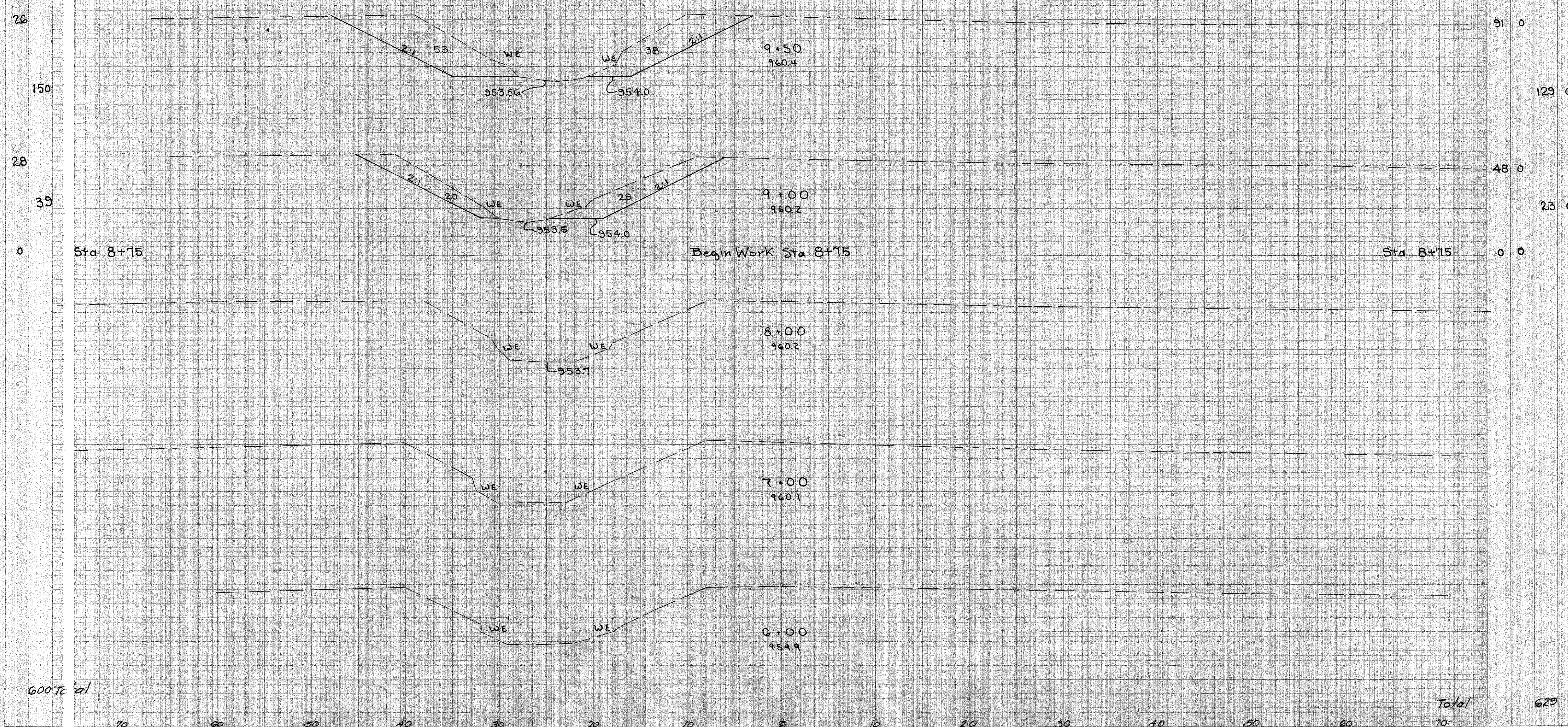
	SY	GATE	CHR.	DATE	REV.	DATE	REV.	DATE
XISTING	✓	1-73	JAN	4-73				
EMPLATE	✓	1-73	CFT	4-73				
ITCHES								
REAS	✓	7-73	CFT	7-73				
'OLUMES	✓	1-73	CFT	7-73				
FEEDING	✓	7-73	CFT	7-73				

16
30

SHELBY COUNTY
SHE-119-3.48



END AREA		VOLUME	
CUT	FILL	CUT	FILL



CHANNEL SECTIONS STA. 6+00 TO 9+50

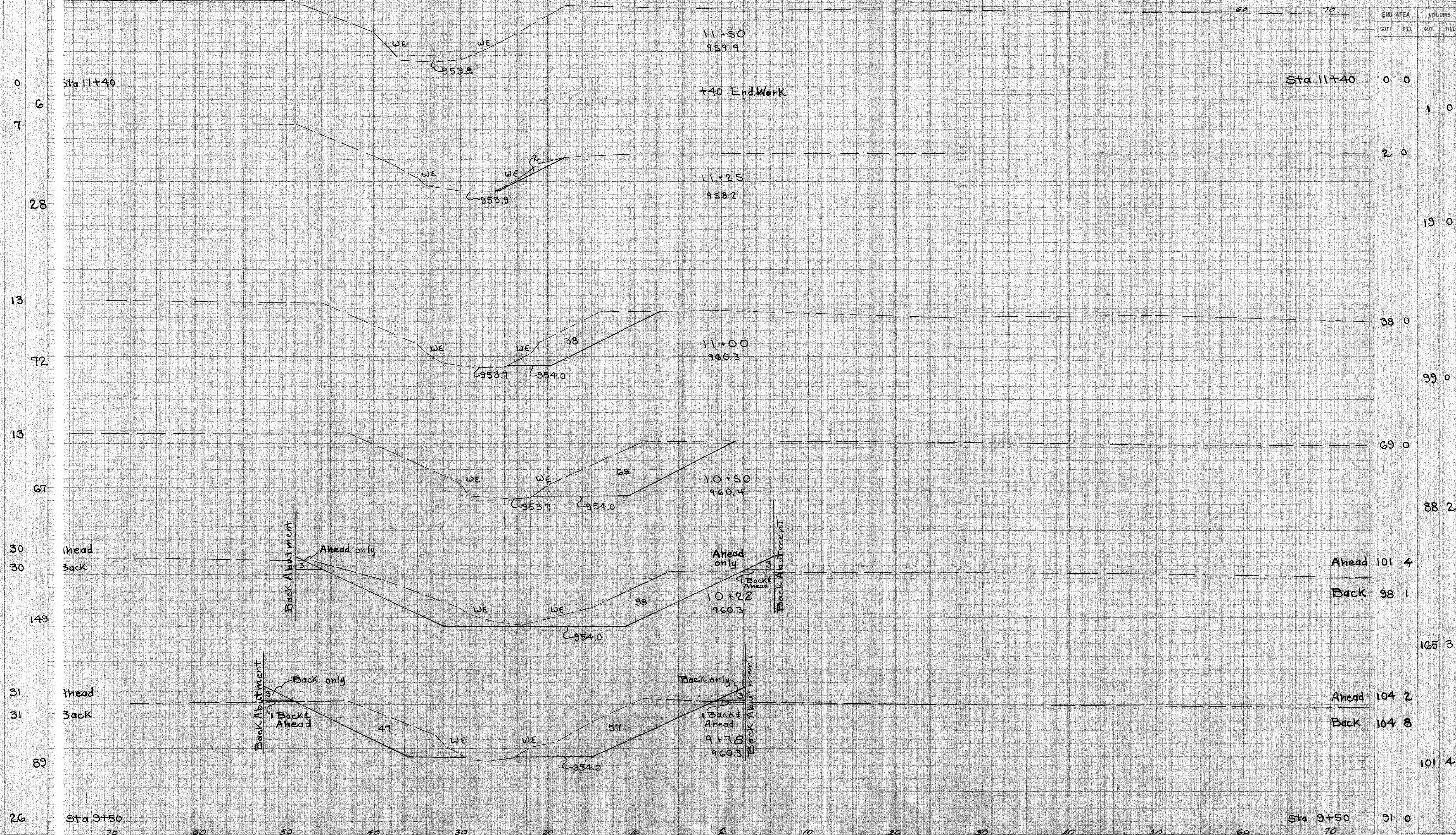
SEEDING
END
WIDTH
SO.
YDS

	BY	DATE	CHK	DATE	REV	DATE	REV	DATE
EXISTING	JF	4-73	JAW	4-73				
TEMPLATE	JF	7-73	CFT	7-73				
DITCHES								
AREAS	JF	7-73	CFT	7-73				
VOLUMES	JF	7-73	CFT	7-73				
SEEDING			CFT	7-73				

FED. NO.	STATE	PROJECT
2	OHIO	

17
30

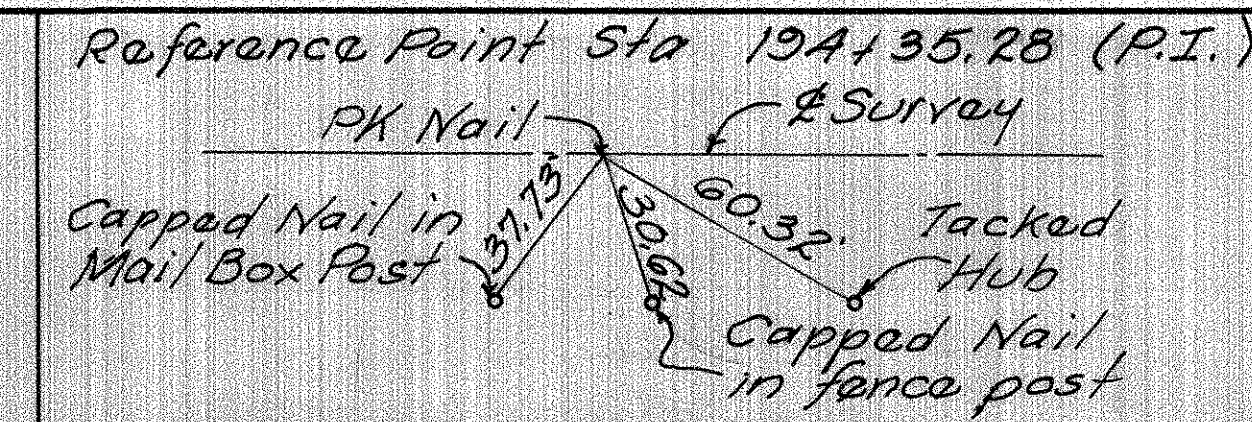
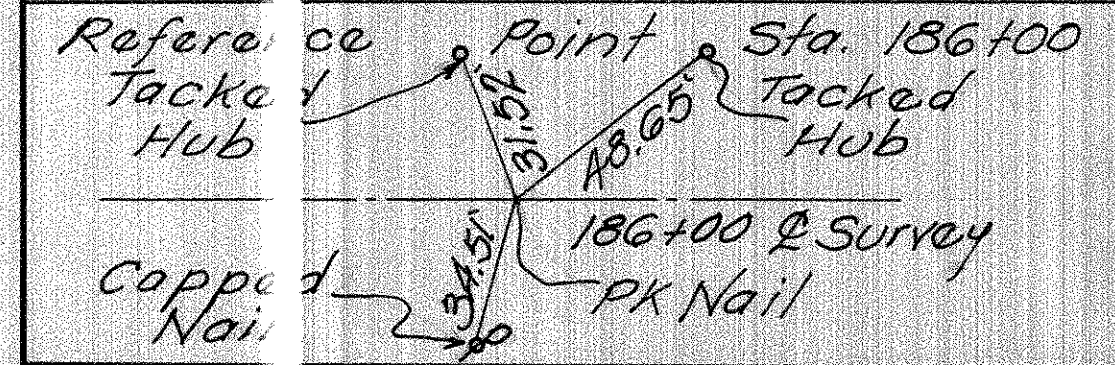
SHELBY COUNTY
SHE-119-3.48



CHANNEL SECTIONS STA. 9+78 TO 11+50

Approach Pavement: 404, 24' wide with 8' and 10' shoulders.

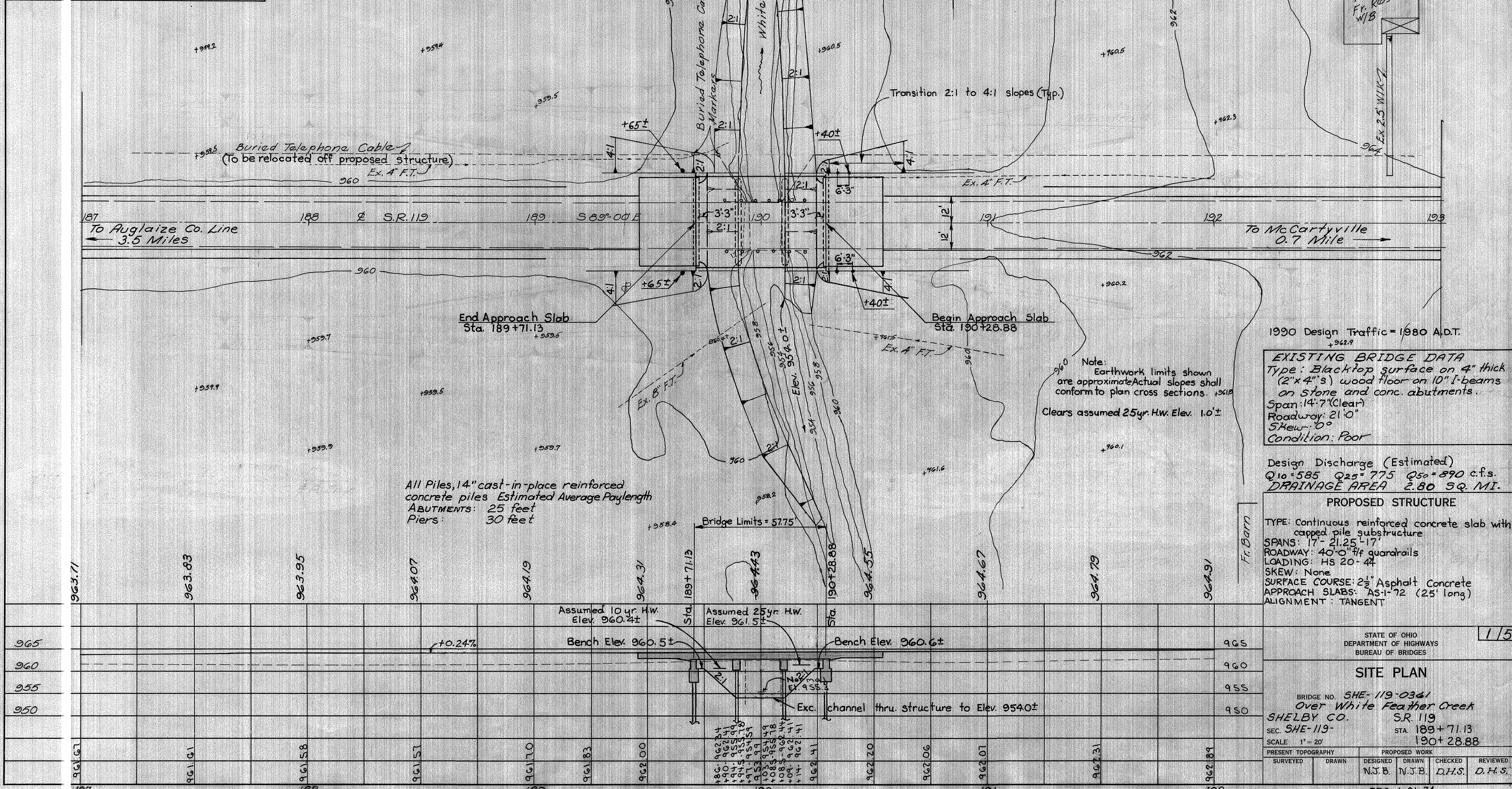
Bench Mark No. 99 R.R. Spike in power pole 8.6' Rt. of Sta. 182+61.5 Elev. 962.84	Bench Mark No. 100 + cut in S.W. corner of conc. wing wall of bridge 13.4' Rt. of Sta. 189+88.5 Elev. 961.785	Bench Mark No. 101 R.R. Spike in power pole 29.6' Rt. of Sta. 195+96.5 Elev. 962.715
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FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

SHELBY COUNTY
SHE-119-3.48
0.7± mi. West of McCartyville

18
30

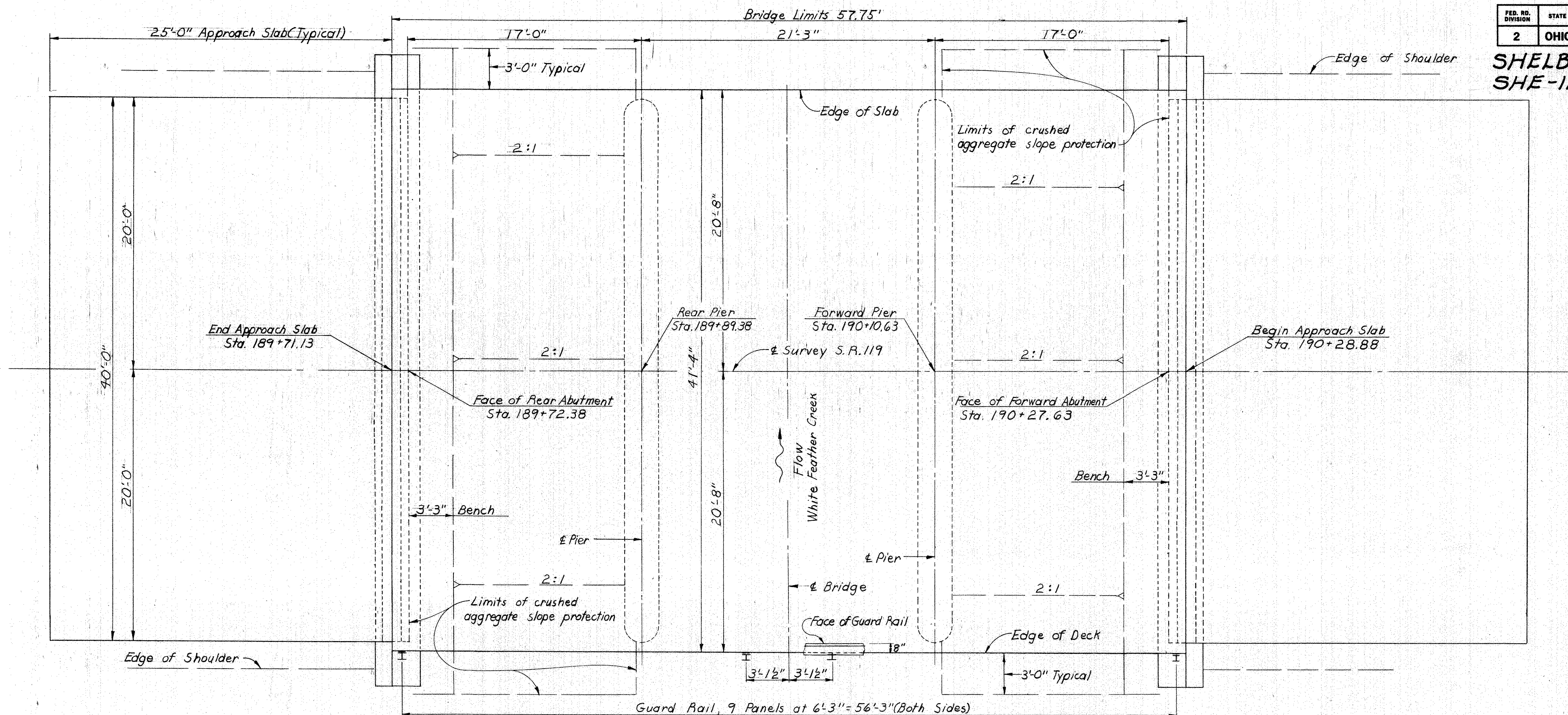
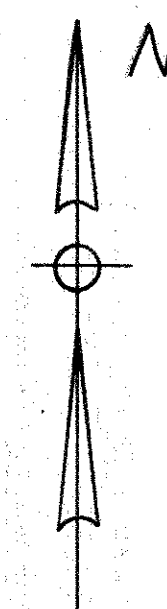


1990 Design Traffic = 1980 A.D.T.
EXISTING BRIDGE DATA
Type: Blacktop surface on 4" thick (2"x4"s) wood floor on 10" I-beams on stone and conc. abutments.
Span: 14'-7" (Clear)
Roadway: 21'-0"
Skew: 0°
Condition: Poor

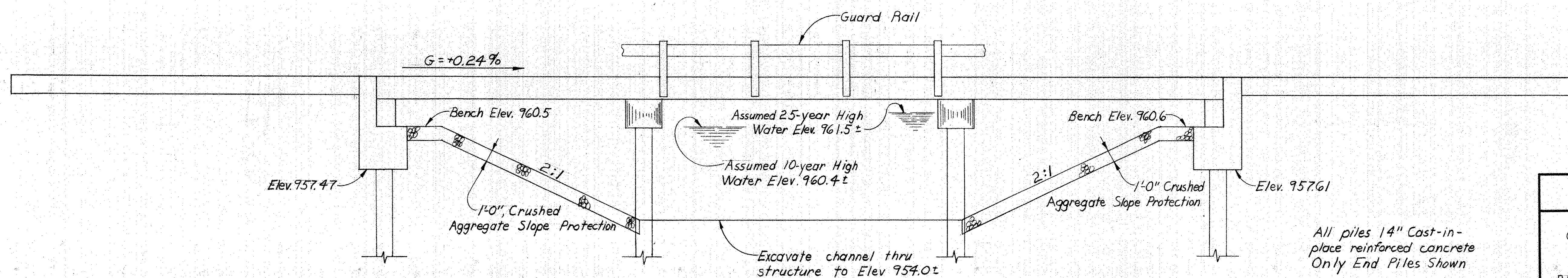
Design Discharge (Estimated)
Q10 = 585 Q25 = 775 Q50 = 890 c.f.s.
DRAINAGE AREA 2.80 SQ. MI.

PROPOSED STRUCTURE
TYPE: Continuous reinforced concrete slab with capped pile substructure
SPANS: 17'-21.25'-17'
ROADWAY: 40'-0" w/ guardrails
LOADING: HS 20-44
SKEW: None
SURFACE COURSE: 2 1/2" Asphalt Concrete
APPROACH SLABS: AS-1-72 (25' long)
ALIGNMENT: TANGENT

STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES					
1/5					
SITE PLAN					
BRIDGE NO. SHE-119-0361 Over White Feather Creek SHELBY CO. S.R. 119 SEC. SHE-119- STA. 189+71.13 190+28.88					
SCALE 1" = 20'					
PRESENT TOPOGRAPHY			PROPOSED WORK		
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
		N.J.B.	N.J.B.	D.H.S.	D.H.S.



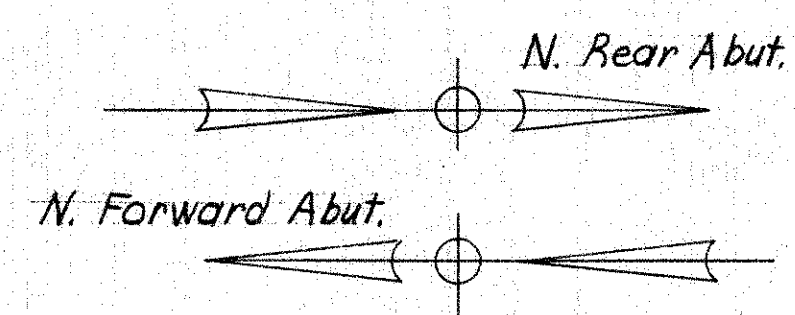
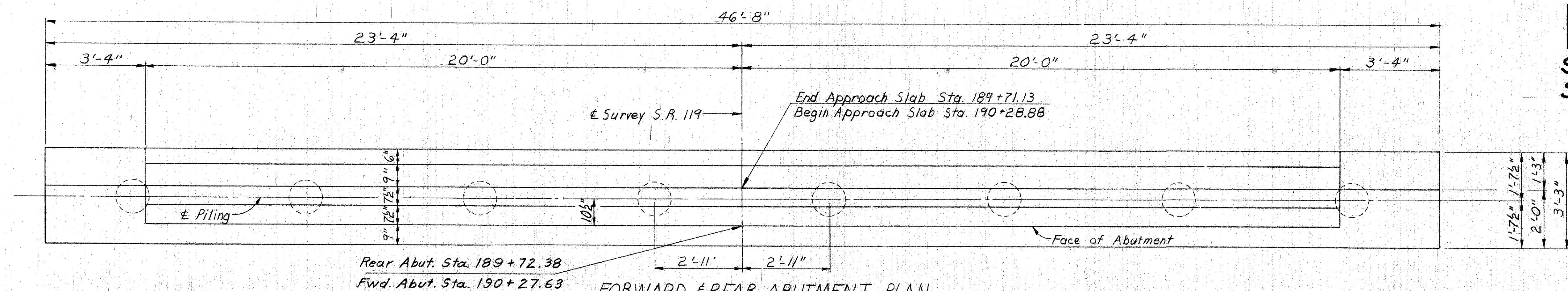
GENERAL PLAN



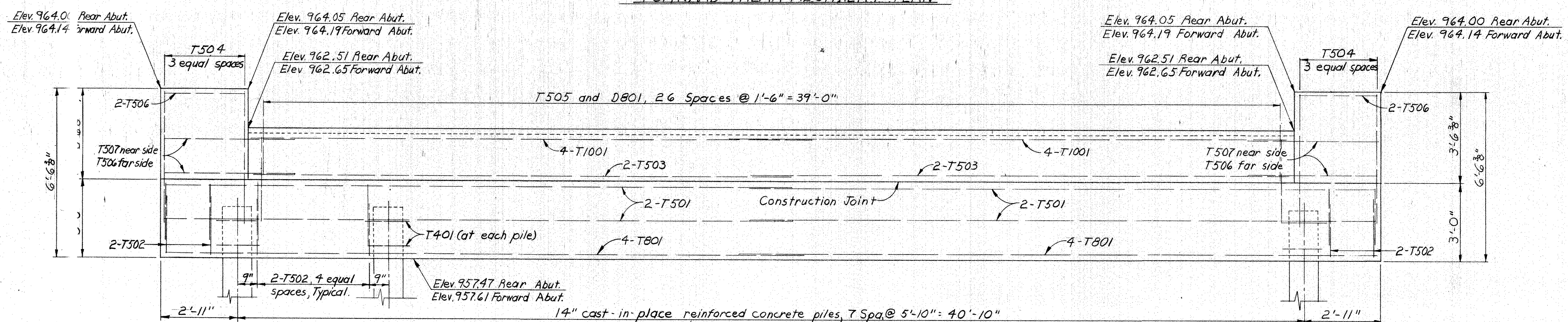
ELEVATION

All piles 14" Cast-in-place reinforced concrete
Only End Piles Shown

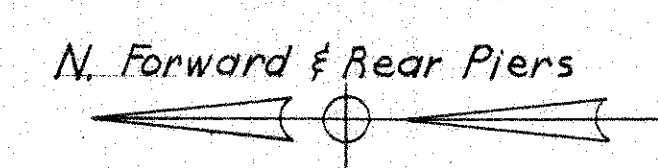
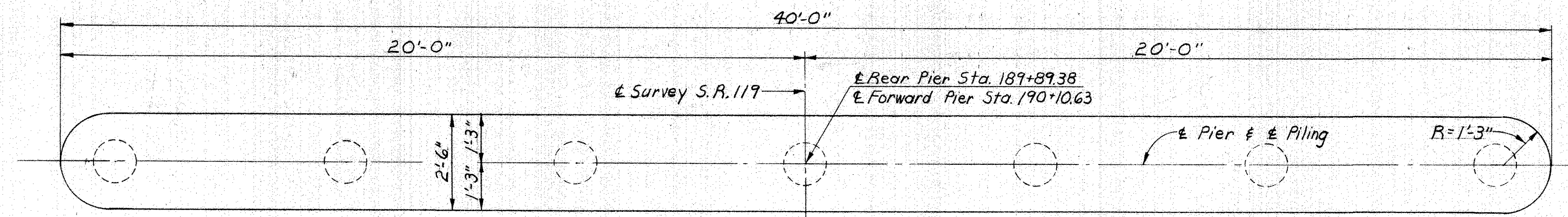
STATE OF OHIO DEPARTMENT OF HIGHWAYS DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES						
GENERAL PLAN and ELEVATION						
BRIDGE NO. SHE-119-0361 OVER WHITE FEATHER CREEK						
DESIGNED JGS	DRAWN JGS	TRACED	CHECKED FFE	REVIEWED BFG	DATE 1-21-74	REVISED



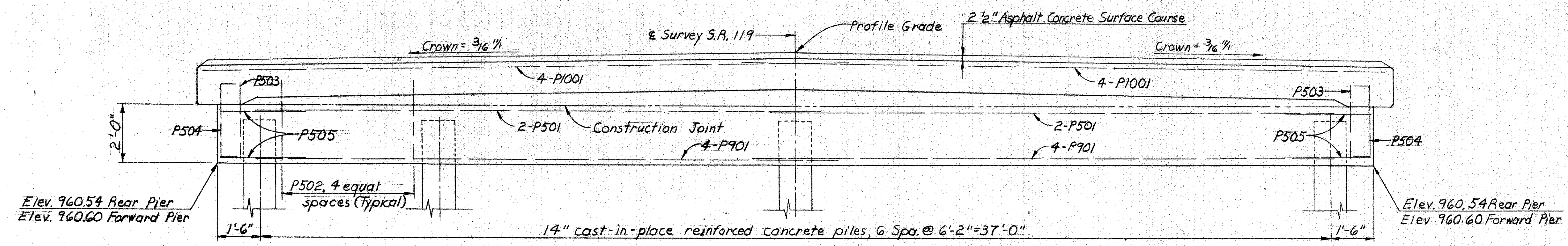
FORWARD & REAR ABUTMENT PLAN



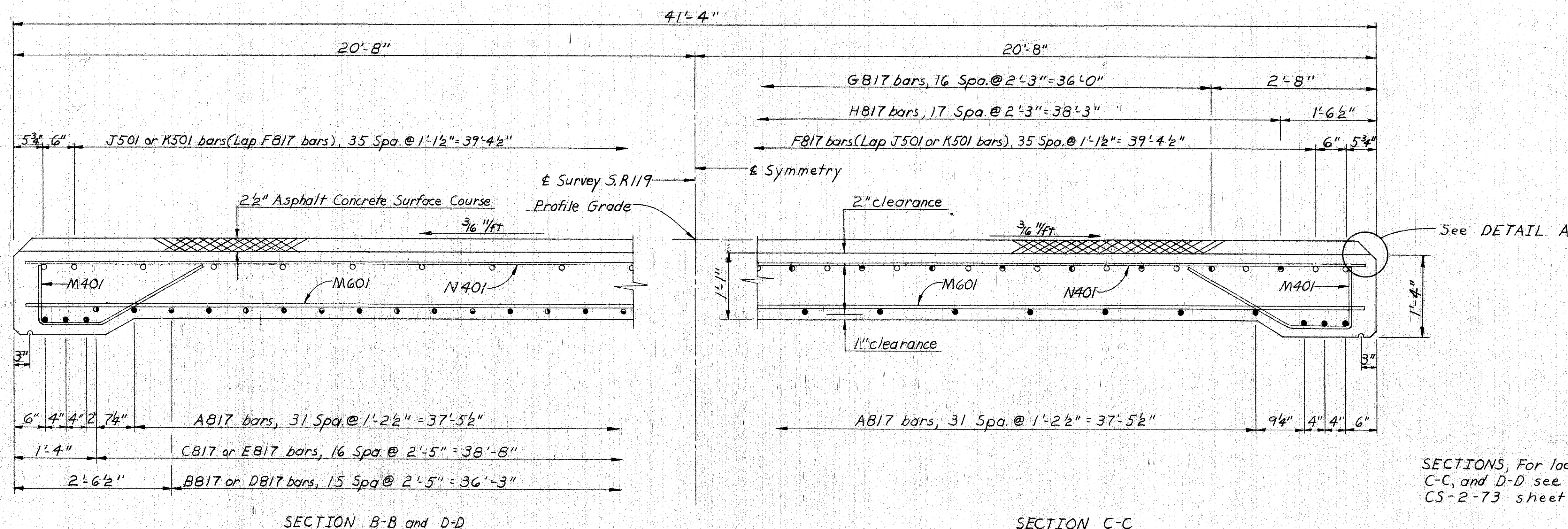
FORWARD & REAR ABUTMENT ELEVATION



FORWARD & REAR PIER PLAN

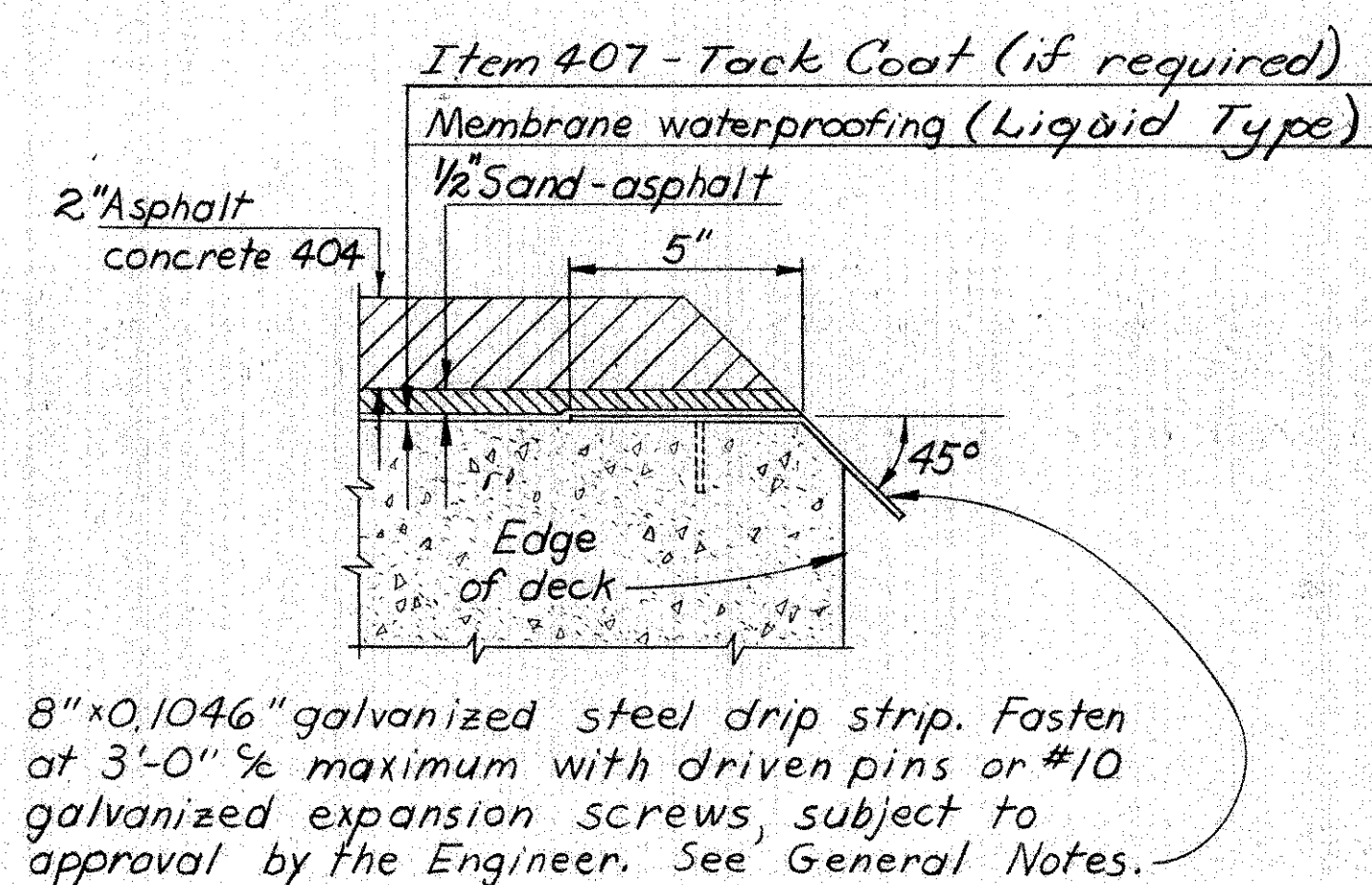


FORWARD & REAR PIER ELEVATION



SECTIONS, For locations of Sections B-B, C-C, and D-D see Standard Drawing CS-2-73 sheet 1 of 2.

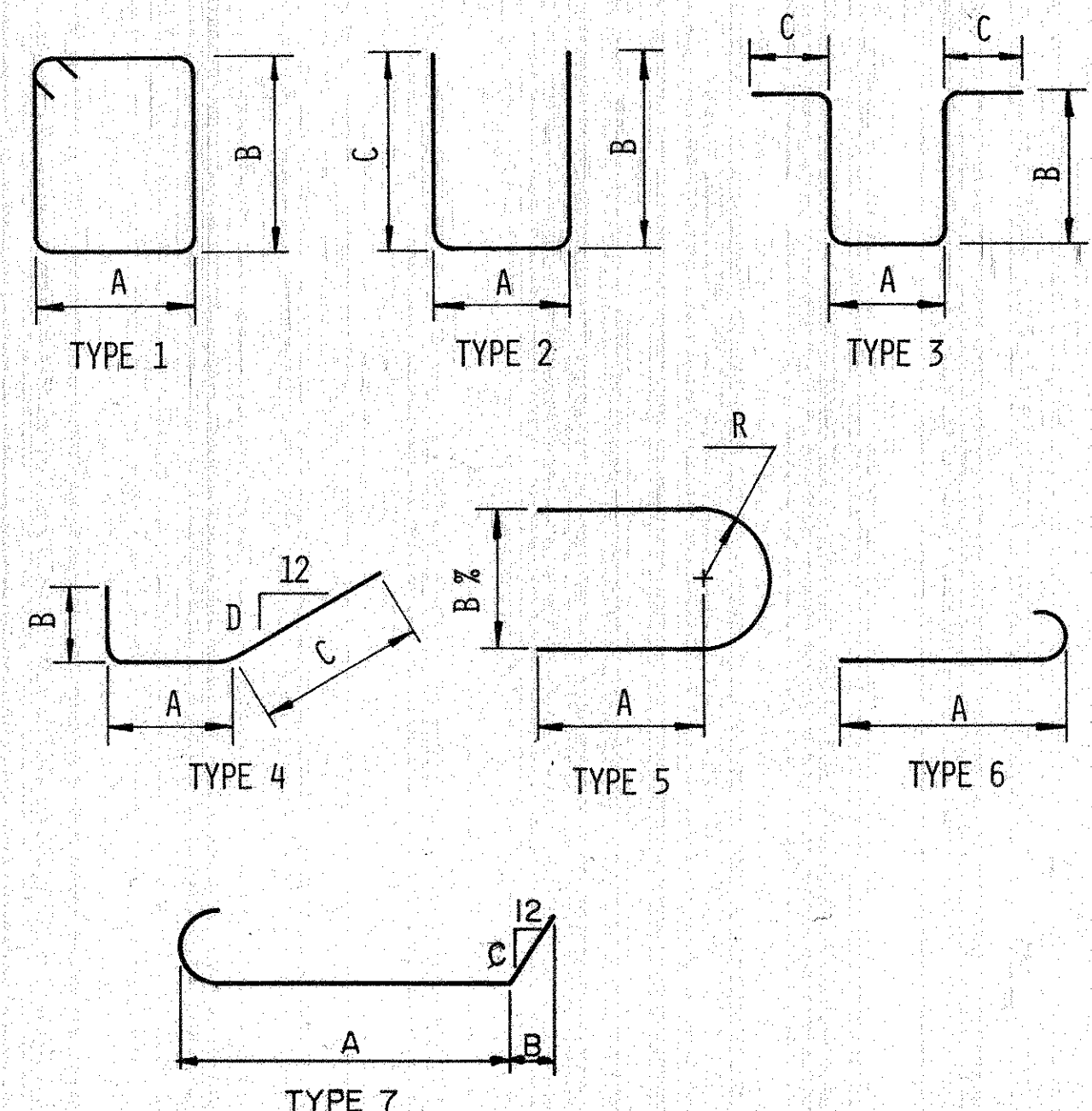
COMPOSITE TRANSVERSE SECTION



DETAIL A

A circular logo with a horizontal line. The number '22' is in the upper half and the number '30' is in the lower half.

BENDING DIAGRAMS



REPLACEMENT BARS											
MARK	NO.	LENGTH	TYPE	A	B	MARK	NO.	LENGTH	TYPE	A	B
RE1001	I	3'-2"	STR.			RE601	I	6'-11"	STR.		
RE901	I	7'-10"	STR.			RE501	I	6'-7"	STR.		
RE801	I	7'-6"	STR.			RE401	I	6'-3"	STR.		

"STD" WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

BAR DIMENSIONS SHOWN ARE OUT TO OUT, UNLESS OTHERWISE INDICATED.

[illegible]

DECK FINISHING: TEXTURING OF THE DECK SURFACE AS PROVIDED IN 451.09 SHALL NOT BE DONE. INSTEAD, A BURLAP DRAG SHALL BE USED TO PROVIDE A UNIFORM SURFACE WITH A GRITTY TEXTURE.