

GROUND PHOTOGRAPH

YORK TOWNSHIP
AND
VILLAGE OF DELTA
FULTON COUNTY

1961 SPECIFICATIONS

CONVENTIONAL SIGNS

CONVENTIONAL SIGNS

County Line	_____
Township Line	_____
Section Line	_____
Center Line	_____
Corporation Line	_____
Fence Line	x x x x x x x x x x
Guard Rail: Existing	o o o o o o o o o o
Railroad	_____
Poles: Power	P P P P Telephone T T T T
Trees or Stumps	⊗ A ⊗ A ⊗ To be removed ⊗ ⊗ ⊗ ⊗
Sewers: Existing	_____ Proposed _____

INDEX OF SHEETS

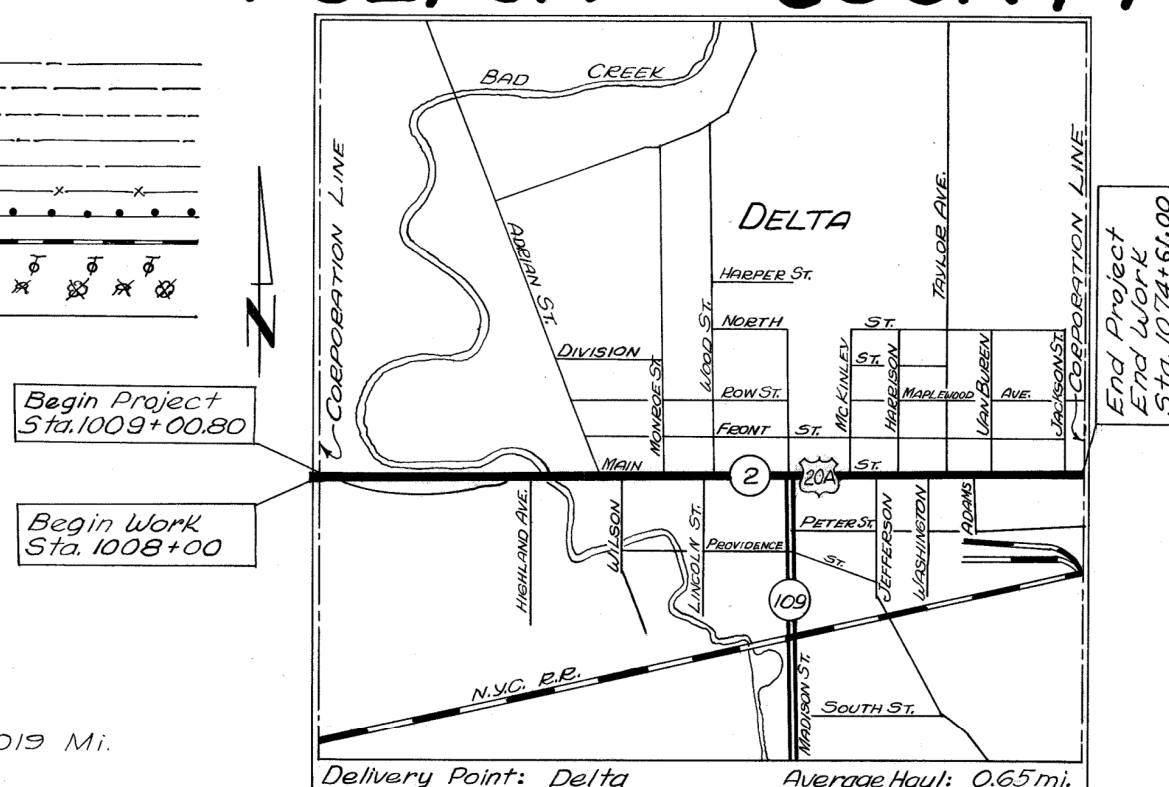
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LINE DATA
WORK-RURAL

Begin Sta. 1008+00 End Sta. 1009+00.80
Gross Length = Net Length = 100.80 Lin. Ft. or 0.019 Mi.

WORK & PROJECT- MUNICIPAL
Begin Sta. 1009+00.80 End Sta. 1074+61.00
Gross Length = Net Length = 6560.20 Lin. Ft or 1.242 Mi.

Total Length Work = 6661.00 Lin. Ft. or 1.261 Mi.



LOCATION MAP

0' 500' 1000' 2000'

SCALE OF FEET

Portion to be improved _____

State roads _____

Other roads or streets _____

SCALE

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

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

The right of way for this improvement will be provided by the State of Ohio.

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

Print Approved M. R. Stevenson
Date 7-8-61 Mayor, Village of Delta

Approved G. W. Leeber
Date 7-5-61 Division Deputy Director

Approved *D. H. Overman*
Date 7-19-61 Engineer of Bridges

Approved A. J. Lerman
Date 7-20-61 Engineer of Location and Design

Approved CW McCarthey
Date 7-20-61 Deputy Director of Design and Construction

Approved _____
Date _____ Deputy Director of Right of Way

Approved July E. Heeger
Date 7-31-61 Deputy Director of Planning and Programming

Approved G. A. Berry
Date 7-31-61 First Assistant Director

Approved E. A. Preston
Date 7-31-61 Director of Highways

STANDARD DRAWINGS				SUPPLEMENTAL SPECIFICATIONS
B-T-70-71	11-15-60	L-3	4-1-50	
DR-1	1-3-55	L-3-A	4-1-50	
G-707	6-1-56	RI-1	7-15-58	
HW-E	11-15-60	T-35	1-2-56	
I-1	11-15-60	T-J	9-12-60	
I-8CB 2-2A & B	3-2-59	I-8 M.H. No 1	1-26-59	
I-8CB No 3-A	1-26-59			
T-12	7-1-54			

GROUND PROTOCOL

File No.	FULTON COUNTY FUL-20A(19.11-19.74)
Date of Letting	_____
Contract No.	_____

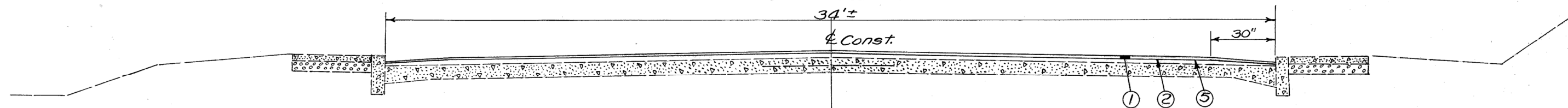
TYPICAL SECTIONS (2 of 2) TYPE T-35

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

3
22

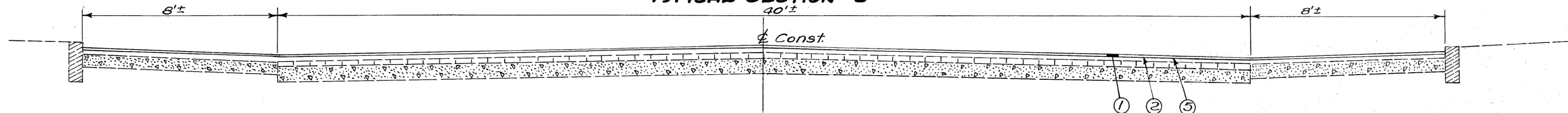
FUL-20A(19.11-19.74)

TYPICAL SECTION "C"



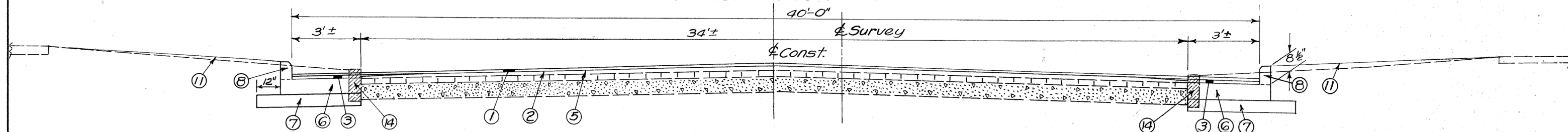
Above typical section applies from Sta. 1028+85.3 to Sta. 1032+75 = 389.7 Lin. Ft.

TYPICAL SECTION "D"



Above typical section applies from Sta. 1032+75 to Sta. 1042+22 = 947 Lin. Ft.

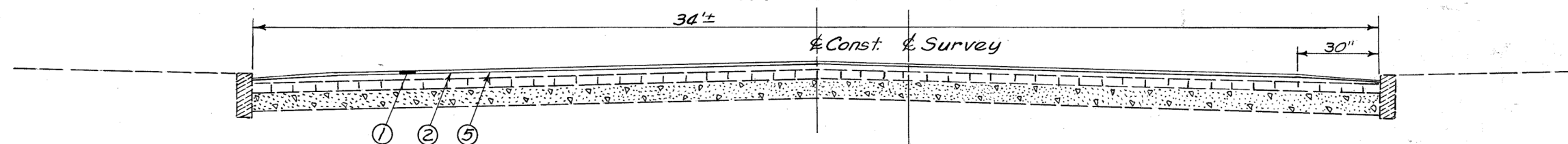
TYPICAL SECTION "E"



Above typical section applies from Sta. 1043+47 to Sta. 1048+60 = 513 Lin. Ft.

Note: Profile grade is on & Const.

TYPICAL SECTION "F"



Above typical section applies from Sta. 1048+60 to Sta. 1074+46.4 = 2586.4 Lin. Ft.

GENERAL NOTES

CONTROL POINTS: Before construction operations begin, the Engineer will reference existing monuments, railroad spikes, iron bolts, etc. in the survey line. Upon completion of the surfacing, the Engineer will reestablish all these control points in the new pavement.

UTILITIES: All work required to relocate and/or adjust, etc. all gas, telephone electric, water or other services to conform to the new grade shall be completed by the utilities involved.

UTILITY OWNERSHIP:

Electric: Toledo Edison Co., Toledo, Ohio
Gas: Toledo Edison Co., Toledo, Ohio
Telephone: The Delta Telephone Co., Delta, Ohio
Northwestern Telephone Service Co., Lima, Ohio
Water: Delta Water Works, Delta, Ohio

FIELD OFFICE: The contractor shall provide a suitable field office in accordance with Sec. S-0.01(b) having a minimum of 150 Sq. ft. of floor space. The contractor shall have a telephone installed and maintained during the construction of the project.

B-35, PRE-LEVELING: B-35, Pre-Leveling material is to be placed only in the amounts and at the locations designated by the Engineer.

ITEM I-1: When the type of Class A, Class B, or Class C pipe is not specifically itemized in the Plans, the provisions of Sec. I-102 are modified to the extent that Reinforced Concrete Pipe, Sec. M-6.6(a) will be accepted as an alternate to the types of pipe listed under the headings Class A, Class B, or Class C.

L-9, COMMERCIAL FERTILIZER: All areas to be seeded shall have commercial fertilizer (12-12-12) applied at the rate of twenty (20) pounds per 1000 square feet.

SEEDING QUANTITIES: Quantities for seeding are calculated for the soil areas within the work limits as indicated on the cross sections and payment for seeding beyond these limits will not be allowed.

SEEDING MIXTURE: The following seed mixture shall be used on this project:

Creeping Red Fescue	40%
Kentucky Bluegrass	20%
Creeping Red Fescue	20%
Red Top	15%
White Dutch Clover	5%
Total	100%

PLACEMENT OF ASPHALTIC CONCRETE: Two-way traffic shall be maintained at all times except that one-way traffic will be permitted for minimum periods of time consistent with the requirements of the specifications for protection of completed asphaltic concrete courses. For traffic control on bridge see Sheet No. 22.

TRENCH FOR WIDENING: Trench excavation for base widening shall be performed only on one side of the pavement at a time. The open trench shall be adequately maintained and protected with temporary guide markers or barricades at all times. Placement of proposed subbase and base material

shall follow as closely as possible behind the excavation operations. The length of the widening trench which is open at any one time shall be held to a minimum and shall at all times be subject to approval of the Engineer.

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.

ITEM I-9, STONE UNDERDRAINS, NO. 2

Stone Underdrains shall be placed at fifty (50) foot intervals on each side of normal crowned sections except where I-1 Underdrains have been provided.

ITEM T-30 TACK COAT: Although this item has been estimated for use on the entire existing bituminous pavement area to be salvaged, it shall be used only on dry or checked pavement areas where specifically directed by the Engineer.

(Continued on Sheet No. 7)

GENERAL SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		
FUL-20A(19.11-19.74)			

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QUANTITY				UNIT	DESCRIPTION
ITEM	MUNICIPAL	RURAL	TOTAL		
E-1	1276	29	1305	Cu. Yds.	Roadway Excavation, Method "A", as per plan
E-1	503	14	517	Cu. Yds.	Embankment, Method "A"
E-8	491		491	Sq. Yds.	Removal and Disposal of Existing Pavement, as per plan
E-8	426		426	Lin. Ft.	Removal and Disposal of Existing Concrete Curb, as per plan
E-8	3241		3241	Lin. Ft.	Removal and Disposal of Existing Concrete Curb
E-8	977		977	Lin. Ft.	Removal and Disposal of Existing Stone Curb
E-8	1646		1646	Sq. Ft.	Removal and Disposal of Existing Sidewalk
E-8	174		174	Sq. Yds.	Removal and Disposal of Existing Bituminous Wearing Course
E-11	6	1	7	M. Gals.	Water
T-10	100		100	Cu. Yds.	Traffic Compacted Surface Course for Maintaining Traffic **
L-9	2654	87	2741	Sq. Yds.	Seeding and Protecting, as per plan
L-9	0.24	0.01	0.25	Ton	Commercial Fertilizer (12-12-12)
M-10	2		2	Tons	Calcium Chloride furnished and applied for Maintaining Traffic **
E-8	162		162	Sq. Yds.	Removal and Disposal of Existing Bituminous Wearing Course, as per plan
DRAINAGE					
I-1	8		8	Lin. Ft.	12" pipe, Class A-1
I-1	67		67	Lin. Ft.	10" pipe, Class D-1
I-1	16		16	Lin. Ft.	12" pipe, Class D-1
I-1	84		84	Lin. Ft.	12" pipe, Class F-1
I-1	2668		2668	Lin. Ft.	6" pipe, Class I-3
I-2	0.3		0.3	Cu. Yd.	Masonry
I-5	3		3	Each	12" pipe specials Class F-1
I-8	1		1	Each	Standard No. 2-2 B Catch Basin
I-8	5		5	Each	Standard No. 3-A Catch Basins
I-8	22		22	Each	Catch Basins Adjusted to Grade
I-8*	2		2	Each	Manholes Adjusted to Grade including furnishing and placing new Std. No. 1 Manhole Heavy Duty Frame & Cover
I-8*	10		10	Each	Manholes Adjusted to Grade
I-8	3		3	Each	Standard No. 3-A Catch Basins with C.I. Catch Basin Traps, as per plan.
I-16	9		9	Each	Catch Basins Abandoned
I-9	128		128	Lin. Ft.	Stone Underdrains, No. 2
PAVEMENT					
B-35	135		135	Cu. Yds.	Asphaltic Concrete Leveling Course, using Type "C" Surface Course Composition (70-85)
B-35	492	8	500	Cu. Yds.	Asphaltic Concrete Leveling Course (70-85)
B-70	2051	28	2079	Sq. Yds.	8" Portland Cement Concrete Base Course
T-30	5	6	11	Gals.	Bituminous Prime Coat, Sec. M-5.7, RT-2 or RT-3
T-30	2684	32	2716	Gals.	Bituminous Tack Coat, Sec. M-5.5, MS-2 or RS-1; or Sec. M-5.2, RC-1 or RC-2 as per Sec. T-30.02
T-35	747	10	757	Cu. Yds.	Asphaltic Concrete Surface Course, Type "C" (70-85)
T-70	138		138	Sq. Yds.	6" Portland Cement Concrete Pavement
T-70	125		125	Sq. Yds.	8" Portland Cement Concrete Pavement
I-12	4617		4617	Lin. Ft.	Standard Type 2-B Concrete Curb
I-12	64		64	Lin. Ft.	Standard Type 6 Concrete Curb
I-13	1318		1318	Sq. Ft.	4" Concrete Sidewalk, as per plan
I-18	6	2	8	Cu. Yds.	Stabilized Crushed Aggregate Shoulders and Approaches
I-22	509	7	516	Cu. Yds.	Subbase
S-1	27		27	Cu. Yds.	Class "C" Concrete including Bar Mat.
S-22	23		23	Cu. Yds.	Removal of Portions of Existing Structure, Concrete.

* All manholes to be adjusted to grade are on Storm or Combination Type Sewers.

** To be used as directed by the Engineer.

Note: Manhole castings which are not to be re-used on this project shall be removed and stored in accordance with item I-16.03.

CALCULATIONS

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

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FUL-20A (19.11-19.74)

T-35, ASPHALTIC CONCRETE SURFACE COURSE:

RURAL

1¹/₂" From Extra Pavement Table = 318.3 Sq. Yd.
Volume = $318.3 \times 1 \div 36 = 8.84$ Cu. Yd.

2¹/₂" From Approach Table = 13.2 Sq. Yd.
Volume = $13.2 \times 2 \div 36 = 0.73$ Cu. Yd.
Total Volume T-35 Rural = 9.57 Cu. Yd.
USE 10 CU. YD.

MUNICIPAL

1¹/₂" From: Typical Section A, Length = 197'
Typical Section B, Length = 1526'
Total Length 28' wide = 1723'
Area = $28 \times 1723 \div 9 = 5360.44$ Sq. Yd.
From: Typical Section C, Length = 389.7'
Typical Section F, Length = 2586.4'
Total Length 34' wide = 2976.1'
Area = $34 \times 2976.1 \div 9 = 11243.04$ Sq. Yd.
From: Typical Section D, Length = 947'
Area = $56' \text{ width} \times 947 \div 9 = 5892.44$ Sq. Yd.
From: Typical Section E, Length = 513'
Area = $40' \text{ width} \times 513 \div 9 = 2280.0$ Sq. Yd.
From: Extra Pavement Table = 2058.6 Sq. Yd.
Total Area 1¹/₂" T-35 = 26834.52 Sq. Yd.
Volume = $26834.52 \times 1 \div 36 = 745.40$ Cu. Yd.
From Drainage Table = 0.1 " "
2¹/₂" From Approach Table = 12.2 Sq. Yd.
Volume = $12.2 \times 2 \div 36 = 0.68$ Cu. Yd.
Total Volume T-35 Municipal = 746.18 Cu. Yd.
USE 747 CU. YD.

B-35, ASPHALTIC CONCRETE PRE-LEVELING COURSE, USING SURFACE COURSE COMPOSITION MATERIAL

MUNICIPAL

From Engineer's Estimate to correct surface irregularities on Typical Sections C, D, E & F & correct gutters as per plan on Typical Section E = 135 Cu. Yd.
USE 135 CU. YD.

B-35, ASPHALTIC CONCRETE LEVELING COURSE

RURAL

1¹/₂" From Extra Pavement Table = 183.5 Sq. Yd.
Volume = $183.5 \times 1 \frac{1}{2} \div 36 = 7.65$ Cu. Yd.
USE 8 CU. YD.

MUNICIPAL

1¹/₂" From: Typical Sections A & B, same area as T-35 = 5360.44 Sq. Yd.
Typical Section E, Length = 513', width = 6'
Area = $513 \times 6 \div 9 = 342.00$ Sq. Yd.
From Extra Pavement Table = 898.5 Sq. Yd.
Total Area 1¹/₂" B-35 = 6600.94 Sq. Yd.
Volume = $6600.94 \times 1 \frac{1}{2} \div 36 = 275.04$ Cu. Yd.
From Drainage Table = 0.2 " "
0¹/₂" From Engineer's Estimate to correct surface irregularities and for crown correction on Typical Sections A & B = 216.10 Cu. Yd.
Total Volume B-35, Municipal = 491.34 Cu. Yd.
USE 492 CU. YD.

T-30, BITUMINOUS TACK COAT

RURAL

Same area as T-35 = 318.3 Sq. Yd.
Volume = $318.3 \times 0.10 = 31.83$ Gal.
USE 32 GAL.

MUNICIPAL

Same area as T-35 = 26834.52 Sq. Yd.
Volume = $26834.52 \times 0.10 = 2683.45$ Gal.
+ USE 2684 GAL.

‡ Includes 0.4 Gal. from Drainage Table

T-30, BITUMINOUS PRIME COAT:

RURAL

From Approach Table = 13.2 Sq. Yd.
Volume = $13.2 \times 0.40 = 5.28$ Gal.
USE 6 GAL.

MUNICIPAL

From Approach Table = 12.2 Sq. Yd.
Volume = $12.2 \times 0.40 = 4.88$ Gal.
USE 5 GAL.

B-70, PORTLAND CEMENT CONCRETE BASE COURSE:

RURAL

8¹/₂" From Extra Pavement Table = 28.1 Sq. Yd.
USE 28 SQ. YD.

MUNICIPAL

8¹/₂" From Typical Sections A & B, Length = 1723', width = 7'
Area = $1723 \times 7 \div 9 = 1340.11$ Sq. Yd.
From Typical Section E, Length = 513', width = 7'
Area = $513 \times 7 \div 9 = 399.00$ Sq. Yd.
From Extra Pavement Table = 342.7 Sq. Yd.
From Drainage Table = 43.1 Sq. Yd.
Total Area 8¹/₂" B-70 Municipal = 2050.71 Sq. Yd.
USE 2051 SQ. YD.

I-22, SUBBASE:

RURAL

6¹/₂" From Extra Pavement Table = 39.3 Sq. Yd.
Volume = $39.3 \times 6 \div 36 = 6.55$ Cu. Yd.
USE 7 CU. YD.

MUNICIPAL

6¹/₂" From Typical Sections A & B:
Rt. Total Length = 1723' x 6.125' wide $\div 9 = 1172.60$ Sq. Yd.
Lt. Sta. 1009+33 to Sta. 1015+10 = 577'
Sta. 1023+70 to Sta. 1026+56 = 286'
Total Length 6.125' wide = 863'
Area = $863 \times 6.125 \div 9 = 587.32$ Sq. Yd.
Sta. 1015+10 to Sta. 1023+70 = 860', width = 4.5'
Area = $860 \times 4.5 \div 9 = 430.00$ Sq. Yd.
From Typical Section E, Length = 513', width = 9'
Area = $513 \times 9 \div 9 = 513.00$ Sq. Yd.
From Extra Pavement Table = 416.9 Sq. Yd.
Total Area 6¹/₂" I-22 Municipal = 3053.02 Sq. Yd.
Volume = $3053.02 \times 6 \div 36 = 508.84$ Cu. Yd.
USE 509 CU. YD.

I-18, STABILIZED CRUSHED AGGREGATE SHOULDERS AND APPROACHES:

RURAL

5¹/₂" From Approach Table = 13.2 Sq. Yd.
Volume = $13.2 \times 5 \div 36 = 1.83$ Cu. Yd.
USE 2 CU. YD.

MUNICIPAL

5¹/₂" From Approach Table = 12.2 Sq. Yd.
Volume = $12.2 \times 5 \div 36 = 1.69$ Cu. Yd.

6¹/₂" From Approach Table = 25.8 Sq. Yd.
Volume = $25.8 \times 6 \div 36 = 4.30$ Cu. Yd.
Total Volume I-18, Municipal = 5.99 Cu. Yd.
USE 6 CU. YD.

E-8, REMOVAL AND DISPOSAL OF EXISTING PAVEMENT

MUNICIPAL

Type: Brick on Concrete
From Approach Table = 69.4 Sq. Yd.

Type: Concrete
From: Approach Table = 175.7 Sq. Yd.
Extra Pavement Table = 40.8 Sq. Yd.

Type: Bituminous Concrete on Concrete
From: Extra Pavement Table = 37.3 Sq. Yd.
Drainage Table = 8.0 Sq. Yd.

Type: Bituminous Concrete on Brick on Concrete
From Extra Pavement Table = 159.1 Sq. Yd.
Total = 490.3 Sq. Yd.
USE 491 SQ. YD.

I-9, STONE UNDERDRAINS, NO. 2:

MUNICIPAL

From: Typical Section B, Lt. Side, Sta. 1015+50 to Sta. 1023+00
Average length = 8', Number = 16
Length = $8 \times 16 = 128$ Lin. Ft.
USE 128 LIN. FT.

E-11, WATER:

RURAL

From: I-22 = 7 Cu. Yd.
I-18 = 2 Cu. Yd.
Embankment + 20% = 17 Cu. Yd.
Total = 26 Cu. Yd.
Volume = $26 \times 5 \div 1000 = 0.13$ M. Gal.
USE 1 M. GAL.

MUNICIPAL

From: I-22 = 509 Cu. Yd.
I-18 = 6 Cu. Yd.
Embankment + 20% = 604 Cu. Yd.
Total = 1119 Cu. Yd.
Volume = $1119 \times 5 \div 1000 = 5.60$ M. Gal.
USE 6 M. GAL.

EXTRA PAVEMENT TABLE "P"

Sheet No.	Reference No.	Station		Side	E-8 Removals				T-35	B-35	B-70		I-22	I-12	T-30
		From	To		Conc. Curb	Conc. Curb	Stone Curb	Conc. Pav't			1"	1 1/2"			
					Lin.	Ft.	Sq.	Yd.			Sq.	Yd.		Lin.	Sq.
					RURAL										
821	1-P	1008+00	1009+00.80	Ctr.					318.3	183.5	28.1		39.3		318.3
		Totals to Calculations													318.3
					MUNICIPAL										
821	1-P	1009+00.80	1009+33	Ctr.					126.2	105.8	14.6		22.2		126.2
821	2-P	1015+39	1016+06	Rt.	23			11.7	51.2	27.8	8.9	19.8	7.0	30.0	42
921	3-P	1024+81	1025+57	Rt.	42			7.8	38.1	22.9	7.0	23.3	4.7	36.8	36
921	4-P	1026+56	1028+12	Ctr.				8.0	472.8	472.8	33.3		84.2		472.8
9	5-P	1027+95	1028+18	Ctr.					86.9	86.9					86.9
	6-P	1028+62	1028+85	Ctr.					86.9	86.9					86.9
	7-P	1031+52	1032+75	Rt.					110.4						110.4
	8-P	1032+56	1033+25	Lt.					45.6						45.6
9	9-P	1035+40		Rt.					20.8						20.8
1021	10-P	1042+22	1043+47	Ctr.	48	10		9.8	669.3	34.6	41.4		55.2	61	669.3
	11-P	1045+26		Rt.		28	38	40.8	34.8	34.8	33.7		31.4	30	34.8
	12-P	1048+60	1049+36	Rt.	23				136.8	26.1	27.7		31.3	28	136.8
1021	13-P	1048+60	1049+28	Lt.	24				67.3	14.6	17.0		21.8	23	67.3
10	14-P	1050+36	1051+00	Lt.					56.9	56.9	56.9		56.9		
								102.2		102.2	102.2		102.2		
11	15-P	1051+00	1052+15	Lt.					15.5						15.5
	16-P	1058+11		Lt.					40.8						40.8
11	17-P	1062+34		Lt.											
12	18-P	1074+60	1074 + 61	Ctr.					55.2						55.2
		Totals to Curb Table													220
		Totals to Calculations													2058.6
		Total to General Summary													1738

SIDE APPROACH TABLE "A"

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

FUL-20A(19.11-19.74)

Sheet No.	Reference No	Station		Side	Width		E-8 Removals				I-18		T-35	T-30	T-70											
		From	To		Edge	Back	Stone	Curb	Conc.	Brick on	Conc.	5"	6"	2"	Prime	6"	8"									
					Pav't.	Pav't.	+ Lin.	- Ft.	- Curb	Pav't.	Pav't.							Sq. Yd.	Pav't.	Pav't.						
RURAL																										
821	1-A	1008+85			Lt	24	10							13.2		13.2	13.2									
Totals to Calculations																	13.2			13.2	13.2					
MUNICIPAL																										
8	2-A	1013+59			Rt	30	20							13.9												
9	1-A	1024+32			Lt	24	20							12.2		12.2	12.2									
921	2-A	1026+05			Rt	20	16										9.3									
	3-A	1026+62			Lt	20	10							8.3			5.3									
921	4-A	1026+62			Rt	20	16							3.6			9.3									
1021	1-A	1043+58			Rt	18	10	29	18		14.1						14.5									
10	2-A	1044+21			Rt	16	10		16			18.7					13.5									
1021	3-A	1045+05			Lt	17	10	29	17		12.8						14.0									
1021	4-A	1045+57			Lt	14	10	29	13		12.3						12.5									
10	5-A	1046+53			Lt	19	11	29	19		16.1						16.4									
	6-A	1046+93			Rt	—	—	29	18		14.1															
	7-A	1047+16			Rt	22	10		22			14.8					16.5									
10	8-A	1047+39			Lt	14	10		14			15.3					12.5									
1021	9-A	1047+80			Rt	16	10		16			17.4					13.5									
	10-A	1047+88	1048+24		Rt	36	36			35	48.6						35.5									
	11-A	1047+98	1048+44		Lt	46	46		46								46.5									
	12-A	1048+39	1048+73		Rt	32	28			34	43.1						30.1									
1021	13-A	1048+81	1048+91		Rt	16	16				17.8						12.4									
Totals to Calculations																										
Totals to Curb Table																	145	-199	-69	694	175.7	12.2	25.8	12.2	12.2	
Totals to General Summary																									137.3	124.5

SIDEWALK TABLE

Sheet No.	Station		Side	E-8 Removals		I-13
	From	To		Removal	Conc. Sidewalk	
				Sq.	Ft.	
	MUNICIPAL					
9	1026+09	1027+66	Lt.	471		
	1026+09	1026+52	Lt.		132 *	
	1026+72	1027+66	Lt.		282	
	1025+43	1027+33	Rt.	570		
	1025+43	1025+97	Rt.		162	
	1026+13	1026+54	Rt.		123	
	1026+70	1027+33	Rt.		189	
	1027+51	1028+12	Rt.	183	183	
	1028+68	1028+84	Lt.	48	48	
9	1028+92	1029+02	Rt.	30	30	
10	1043+22	1043+31	Lt.	40	41	
	1043+95	1044+02	Lt.	88	56	
	1045+85	1045+88	Lt.	12	3	
	1048+76	1048+90	Rt.	154	41	
	1048+76	1048+81	Lt.	25	10	
10	1048+89	1048+94	Lt.	25	18	
	Totals to General Summary					1646 1318

* One step @ Sta. 1026+09 to Sta. 1026+12 included in this item.

CURB TABLE

Sheet No.	Station		Side	E-8 Removals				I-12	
	From	To		Conc. Curb	Conc. Curb	Stone Curb	per plan	Type 2-B	Type 6
				Lin.	Ft.			Lin.	Ft.
	MUNICIPAL								
8	1009+01	1011+30	Lt.	229					
89	1011+30	1027+10	Lt.		1580				
89	1009+01	1027+10	Lt.					1809	
8	1009+33	1011+30	Rt.	197					
	1011+30	1015+38	Rt.		408				
8	1009+33	1015+39	Rt.					606	
89	1016+17	1024+79	Rt.		862				
89	1016+06	1024+81	Rt.					875	
9	1025+59	1027+10	Rt.		151				
	1025+57	1027+10	Rt.					153	
	1027+50.5	1027+66	Lt.		15.5			15.5	
	1027+55	1027+61	Rt.		6			6	
	1027+95.5	1028+12	Rt.		16.5			16.5	
	1028+68	1028+84	Lt.		16			16	
9	1028+92	1029+02	Rt.		10			10	
10	1043+41	1048+84	Lt.		543				
	1043+47	1048+79	Lt.					532	
	1042+84	1047+72	Rt.		488				
	1047+88	1048+73	Rt.	85					
	1042+88	1045+01	Rt.					213	
10	1045+51	1048+60	Rt.					209	
	From Extra Pavement Table					160	38	220	
	From Approach Table					-69	-38		
							145		
							-199		
	Totals to General Summary					426	3241	977	4617 64

EARTHWORK, SEEDING & FERTILIZER

Sheet No.	Station		RURAL				MUNICIPAL			
	From	To	Cut	Fill	Seeding	Fertilizer	Cut	Fill	Seeding	Fertilizer
			Cu. Yd.	Yd.	Sq. Yd.	Ton	Cu. Yd.	Yd.	Sq. Yd.	Ton
13	1007+00	1012+00	29	14	87		156	92	427	
14	1012+36	1016+00					217	84	420	
15	1017+00	1022+50					296	134	617	
16	1023+00	1025+00					148	79	304	
17	1025+35	1027+41					98	46	216	
18	1027+66	1029+50					0	9	27	
19	1042+59	1046+40					190	36	364	
20	1046+53	1049+06.05					171	23	279	
	Totals to General Summary					29	14	87	0.01	1276 503 2654 0.24
	Total Embankment + 20%							17		604

TABLE "D" DRAINAGE SUMMARY

Line No.	Sheet No.	Reference No.	Station	Location	B-7D E-8 Portland Cement Conc. Base Course - 8" Thick Removal and Disposal of Exist. Bit. Conc. on Conc. Pavt.	I-1					I-2		I-5			I-8		I-8 Std. 18" x 3'-A Catch Basins Including C.B. Traps	I-16 Catch Basins Abandoned	T-35 Asph. Conc. Surface Course Type C (70-85)	B-35 Asph. Conc. Leveling Course (70-85)	T-30 Bituminous Tack Coat @ 0.10 Gal. per Sq. Yd.	I-22	Remarks		
						Pipe					Masonry	Pipe Specials			Catch Basin	Manhole										
						Class A-1	Class D-1	Class D-1	Class F-1	Class I-3	Standard As per H.W. E	25° Ell Class F1	30° Ell Class F1	90° Ell Class F1	No. 2-2 B	No. 3 A	Adjust to Grade								Adjust to Grade Using heavy duty frame	Adjust to Grade
Sq. Yd.						Lin. Ft.					Cu. Yd.		Each					C.Y.					C.Y.	Gal.	C.Y.	
1	8	1-D	1009+01	1015+10	LT					609																
2	8	2-D	1009+33	1017+59	RT	8.0	8.0			826																
3	8	3-D	1017+47	1017+59	RT	0.44		4	44						1	1			1	0.01	0.02	0.04	0.07			
4	8	4-D	1017+59		LT	0.44		4		66		0.23	1	1		1			1	0.01	0.02	0.04	0.07			
5	8	5-D	1017+75	1021+00	RT					325																
6																										
7	9	1-D	1021+00	1021+60	RT	0.44				60						1			1	0.01	0.02	0.04	0.07			
8	9	2-D	1021+75	1024+57	RT	0.44				282						1			1	0.01	0.02	0.04	0.07			
9	9	3-D	1023+60		LT	0.44										1			1	0.01	0.02	0.04	0.07			
10	9	4-D	1023+70	1027+60	LT					390						1										
1	9	5-D	1025+50	1027+26	RT					176																
2	9	6-D	1028+76		LT			8		8																
3	9	7-D	1028+97		RT			8		10				1												
4	9	8-D	1032+94	1033+13	RT+LT											2		1								
5	9	9-D	1035+52	1035+97	RT+LT											2		1								
6																										
7	10	1-D	1037+02	1037+14	RT+LT											2		1								
8	10	2-D	1038+68	1037+97	RT+LT											1		2								
9	10	3-D	1040+34	1040+75	RT+LT											1		1								
20	10	4-D	1041+67	1042+59	RT+LT											3		2								
1	10	5-D	1043+20	1043+47	LT	0.44			4									1	1	0.01	0.02	0.04	0.07			
2	10	6-D	1045+68	1045+75	LT	0.44			4									1		1	0.01	0.02	0.04	0.07		
3	10	7-D	1045+63		RT	0.88			15									1	2	0.02	0.04	0.09	0.15			
4	10	8-D	1048+86		LT													1								
5																										
6	11	1-D	1053+80		RT											1										
7	11	2-D	1057+96	1058+28	RT+LT											3										
8	11	3-D	1062+41		RT													1								
9																										
30	12	1-D	1065+85		LT											1										
1	12	2-D	1067+84		RT													1								
2	12	3-D	1069+68		RT+LT											2										
3	12	4-D	1072+47		LT											1										
4	12	5-D	1074+57		RT+LT											2										
5																										
6																										
7	To Calculations					12.0	8.0														0.1	0.2	0.4	0.7		
8																										
9	To General Summary							8	16	67	84	2668		0.23	1	1	1	1	5	22	2	10	3	9		
40																										

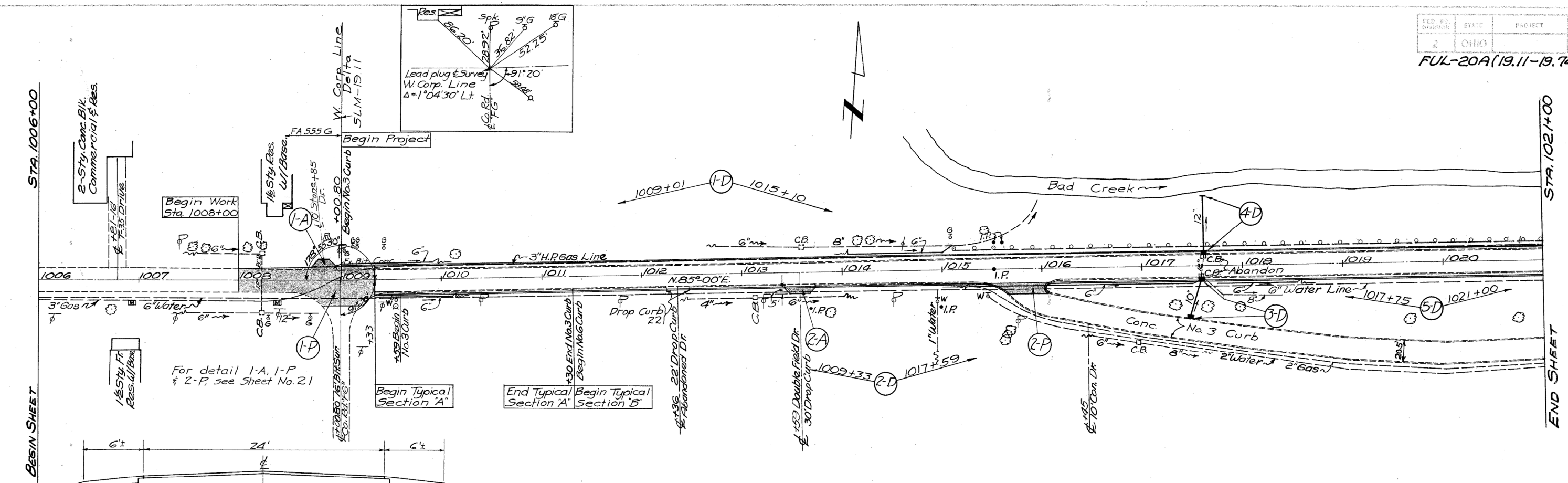
GENERAL NOTES (CONT'D)

EARTHWORK: Benching, density tests and the removal of sod from the shoulder will not be required on this project. However, item E-1 shall include the thorough compacting of embankment in layers not exceeding eight inches loose depth, and shall include any operations of grading necessary to finish the shoulders and slopes substantially to the lines indicated on the typical sections. No provisions of the specifications shall be waived for embankment which supports any portion of the new pavement or pavement forms.

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.

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

ALIGNMENT AND PROFILE: The work proposed by this project is for the widening in part and resurfacing of the existing pavement. The alignment of the existing pavement will not be changed and the profile of the proposed surface will be similar to that of the existing pavement except that it will be raised an amount equal to the thickness of the resurfacing course or courses specified in these plans unless otherwise shown.

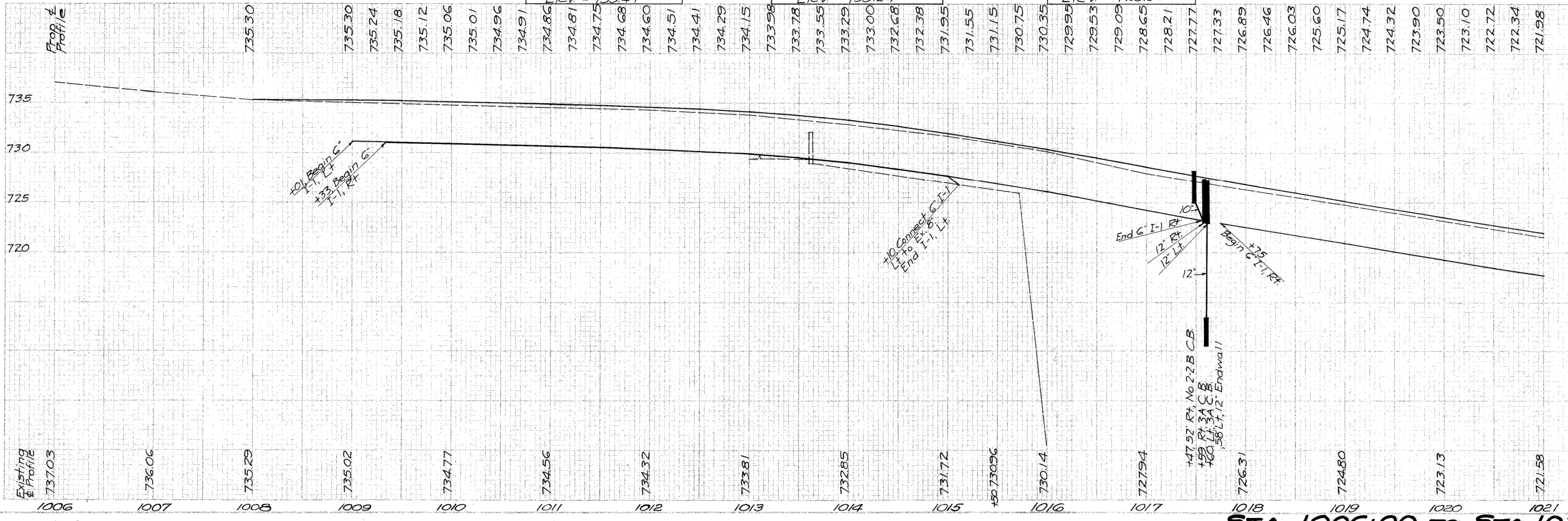


TYPICAL SECTION ADJOINING PAVEMENT
 Bituminous concrete surface on waterbound macadam, 12"± thick

B.M. No. 2, R.R. spk N. side
 27' Elm, 24' Lt Sta. 1010+15
 Elev. = 735.47

B.M. No. 3, R.R. spk N. side
 23' Walnut 38' Rt. Sta. 1013+88
 Elev. = 735.24

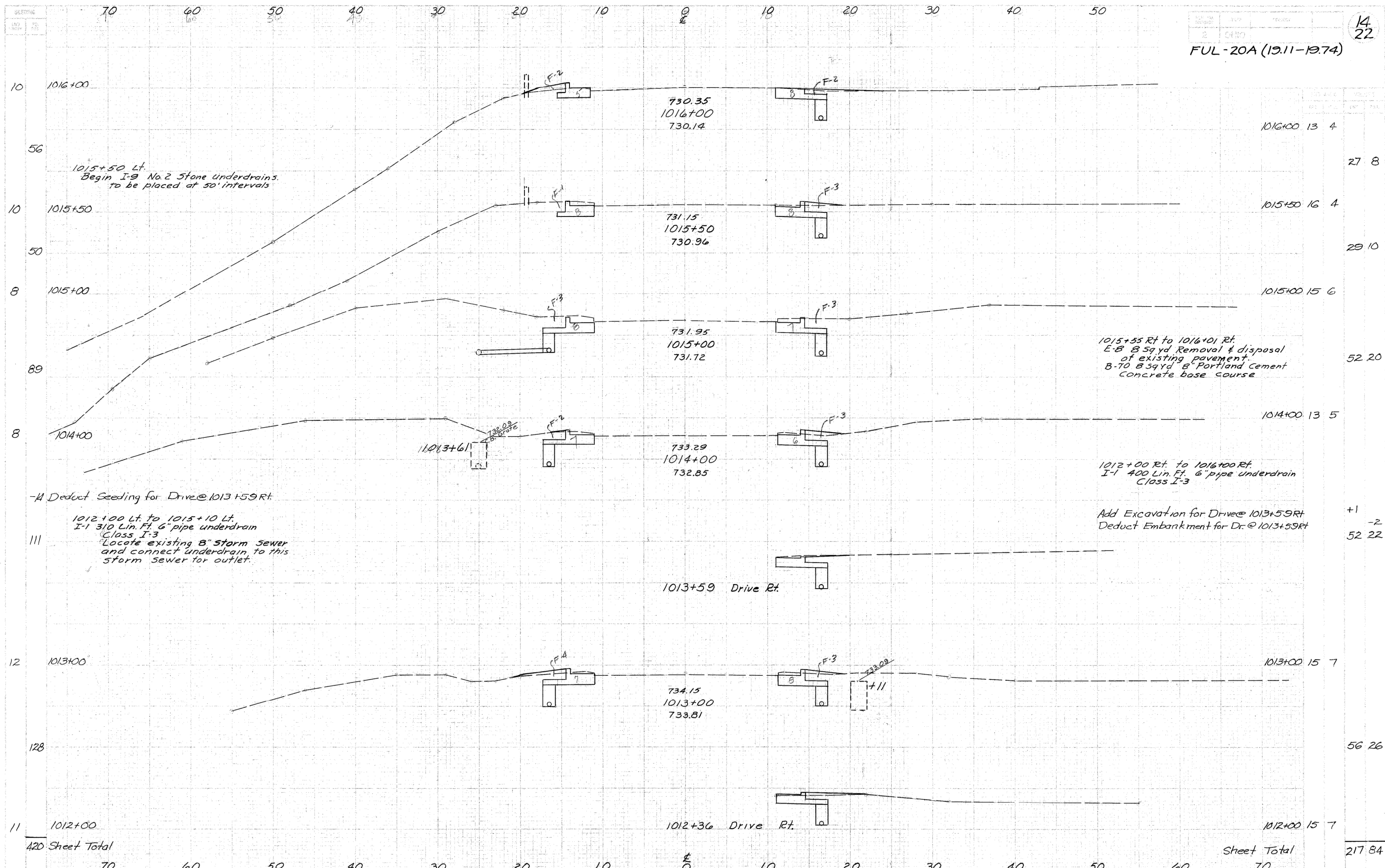
B.M. No. 4, 5 E. Cor. C.B.
 70' Rt. Sta. 1016+98
 Elev. = 729.80



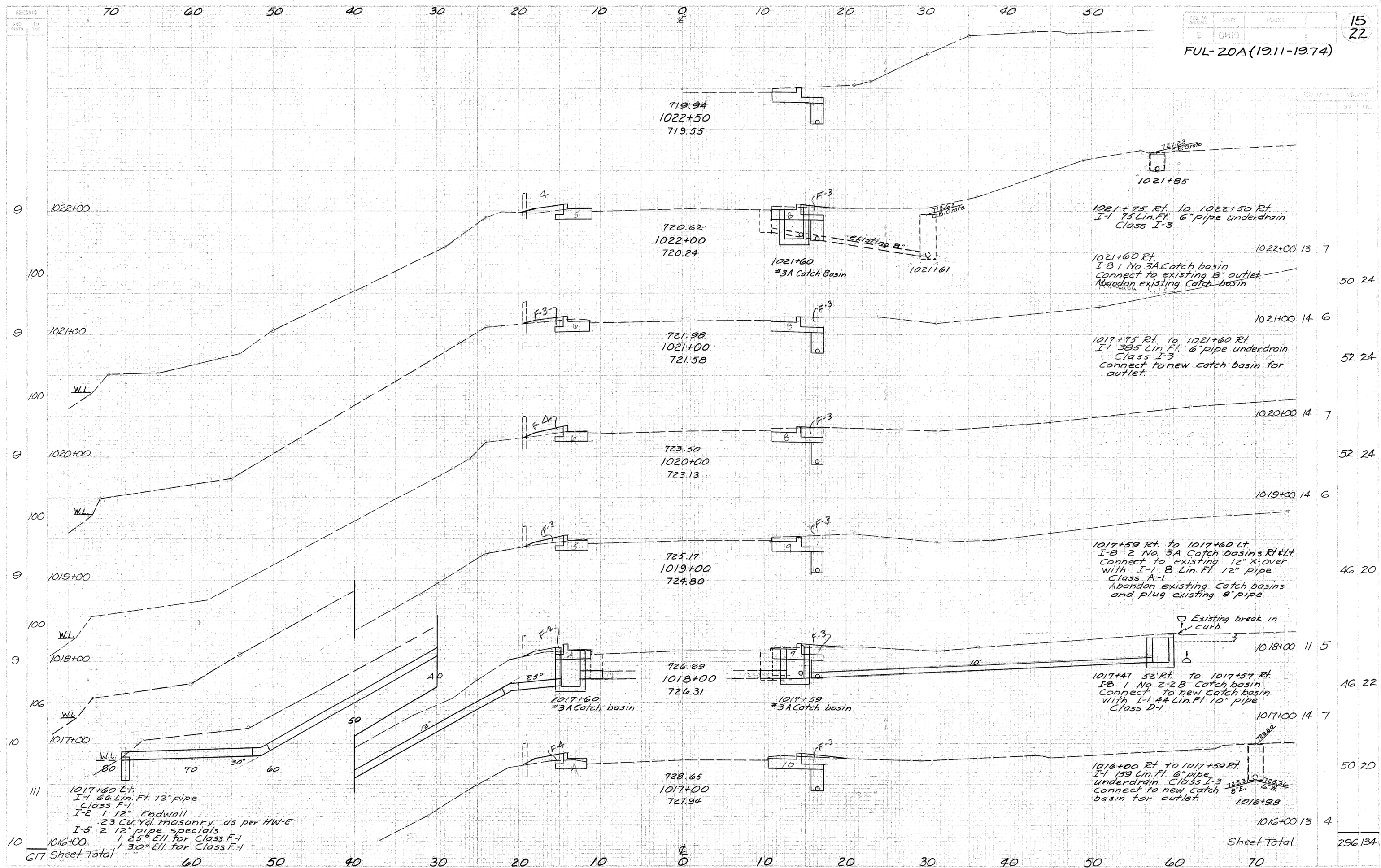
STA. 1006+00 TO STA. 1021+00



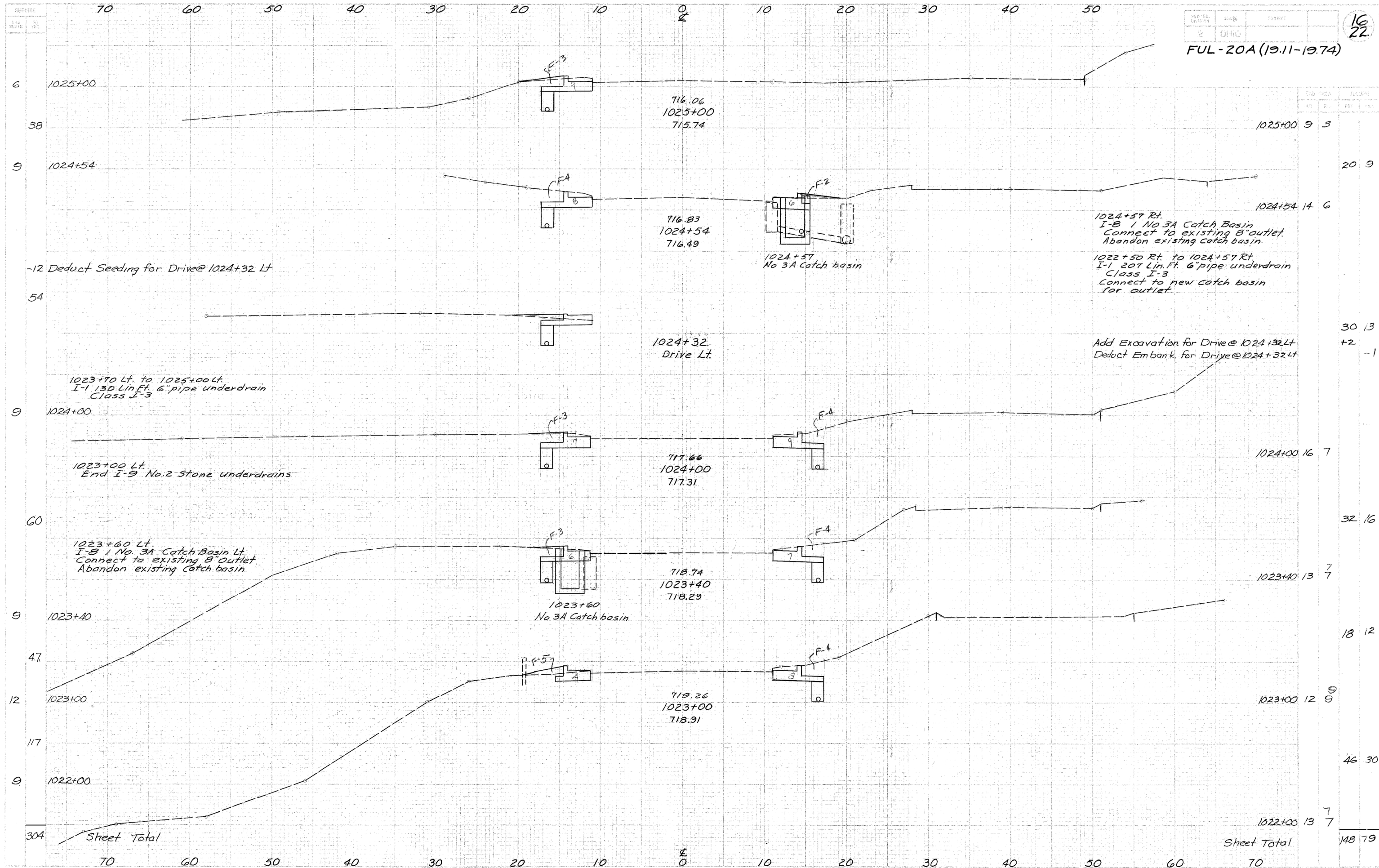
STA. 1051+00 TO STA 1065+00

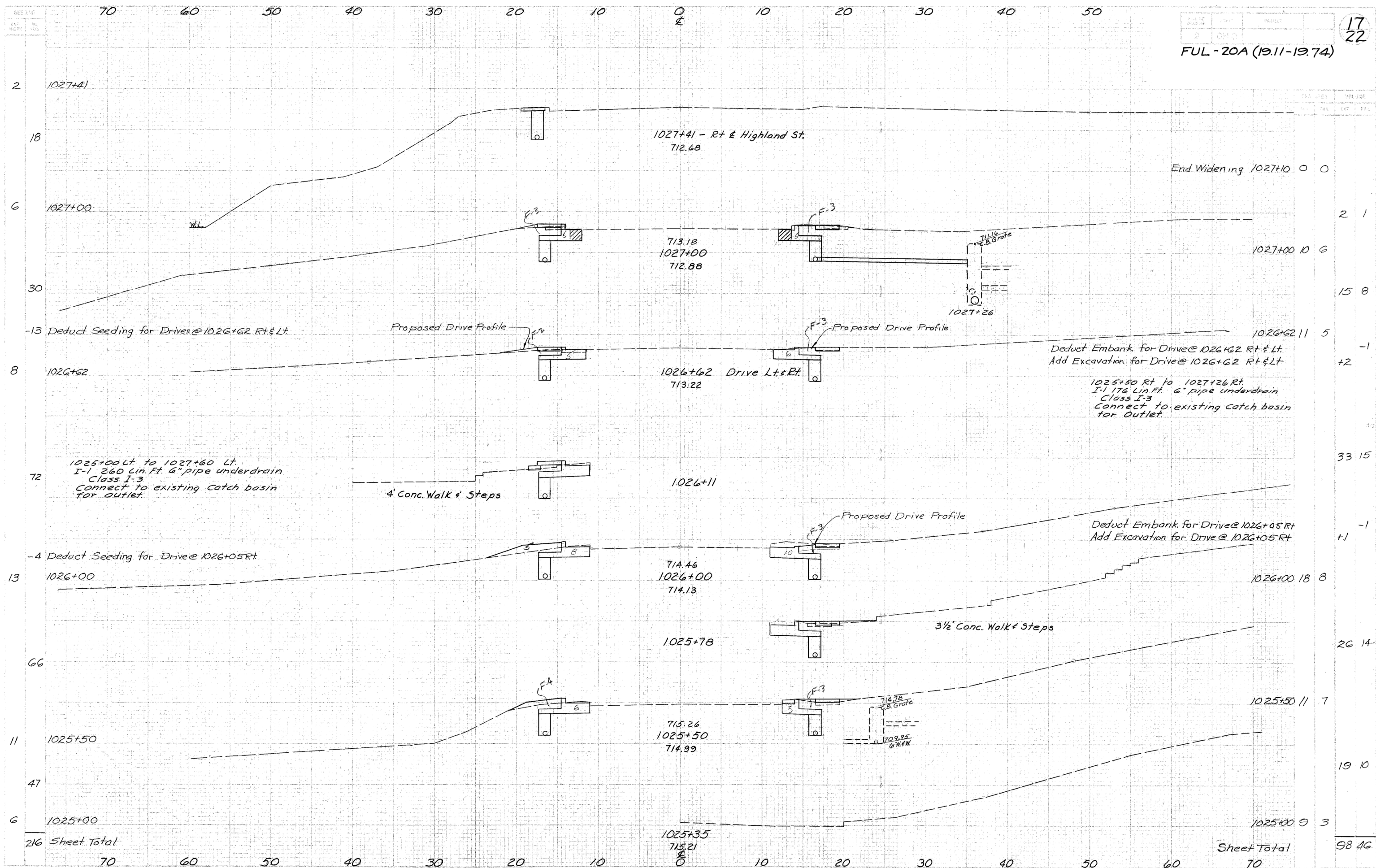


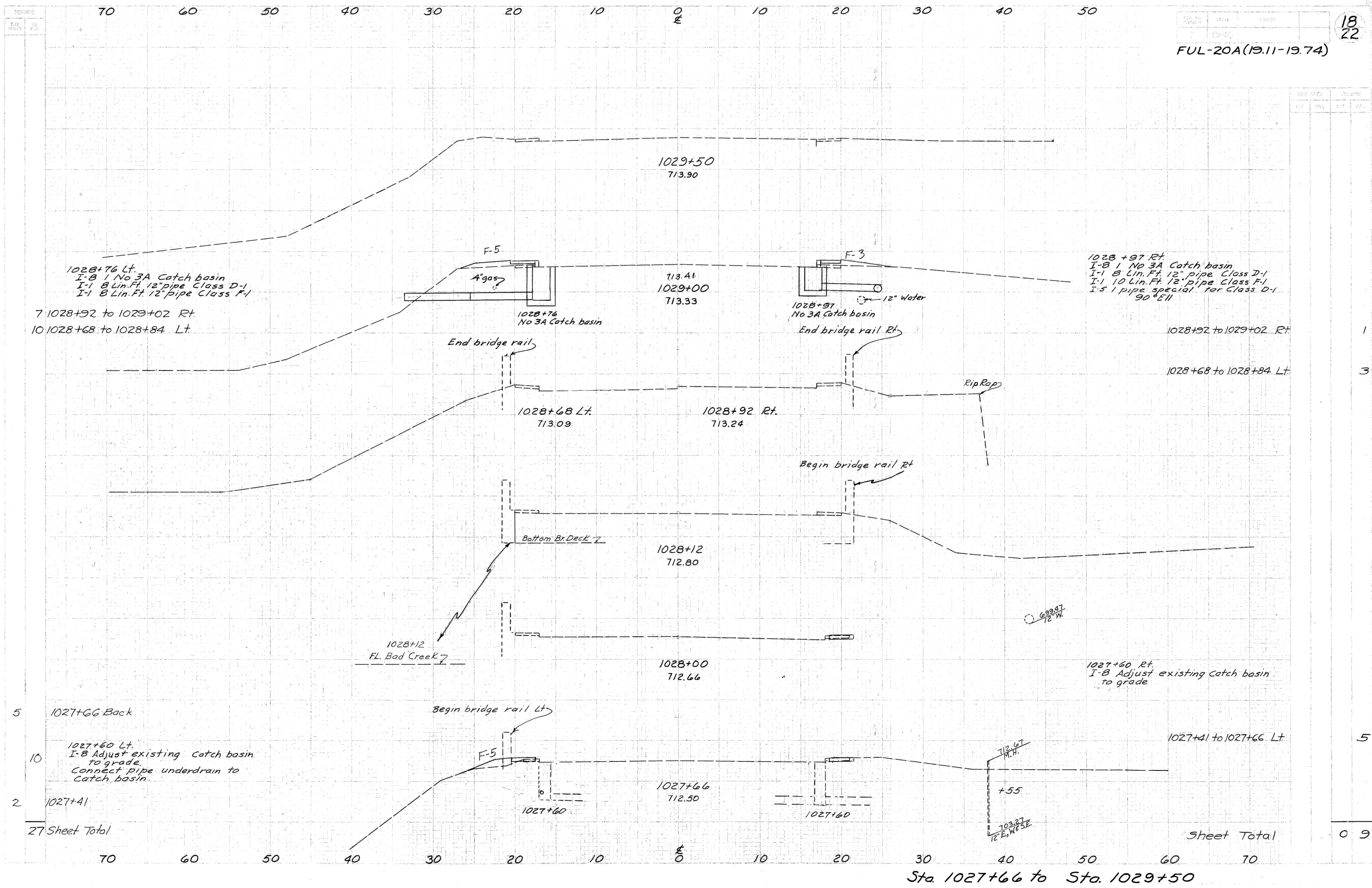
Sta. 1012+36 to Sta. 1016+00

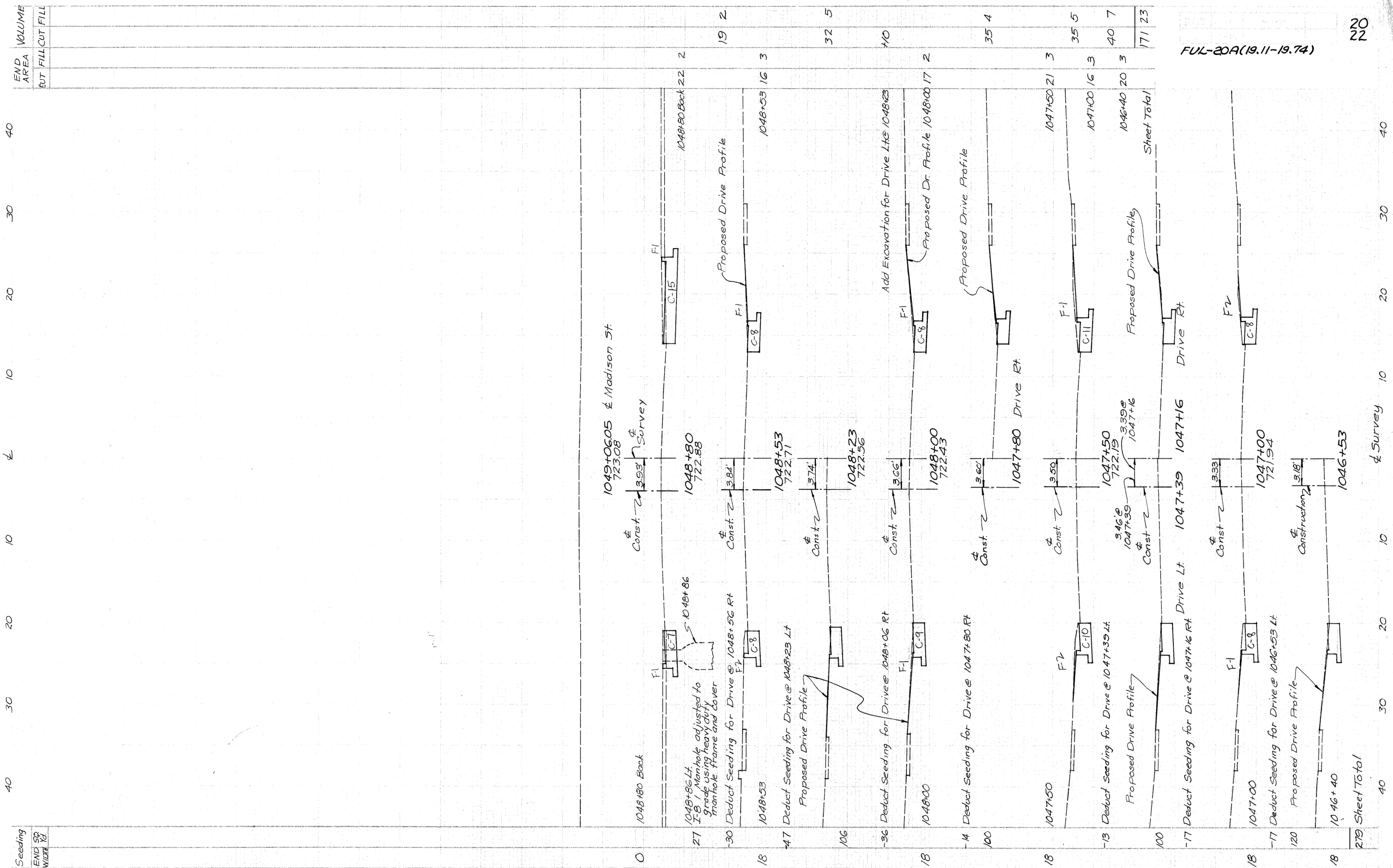


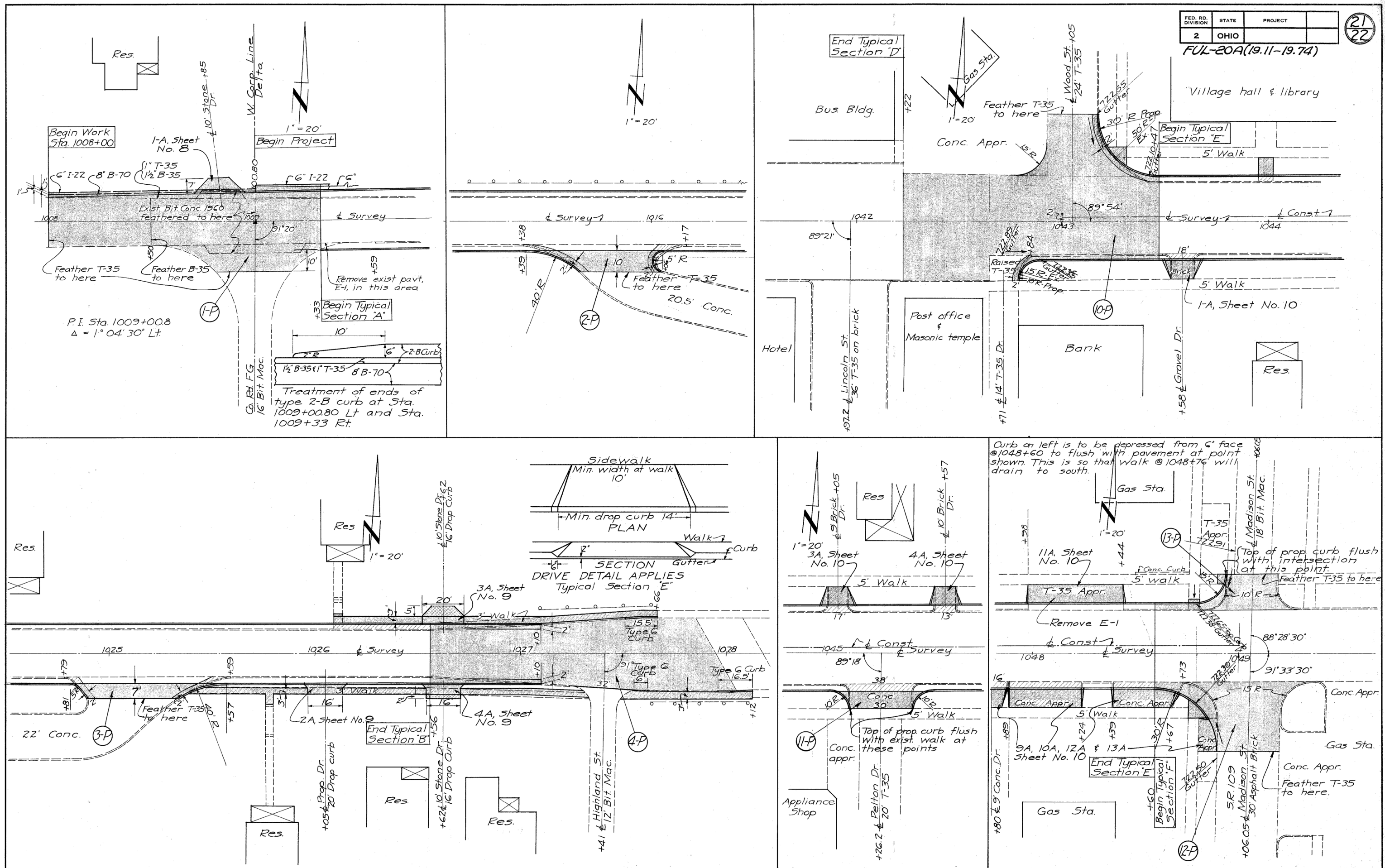
Sta. 1017+00 to Sta. 1022+50

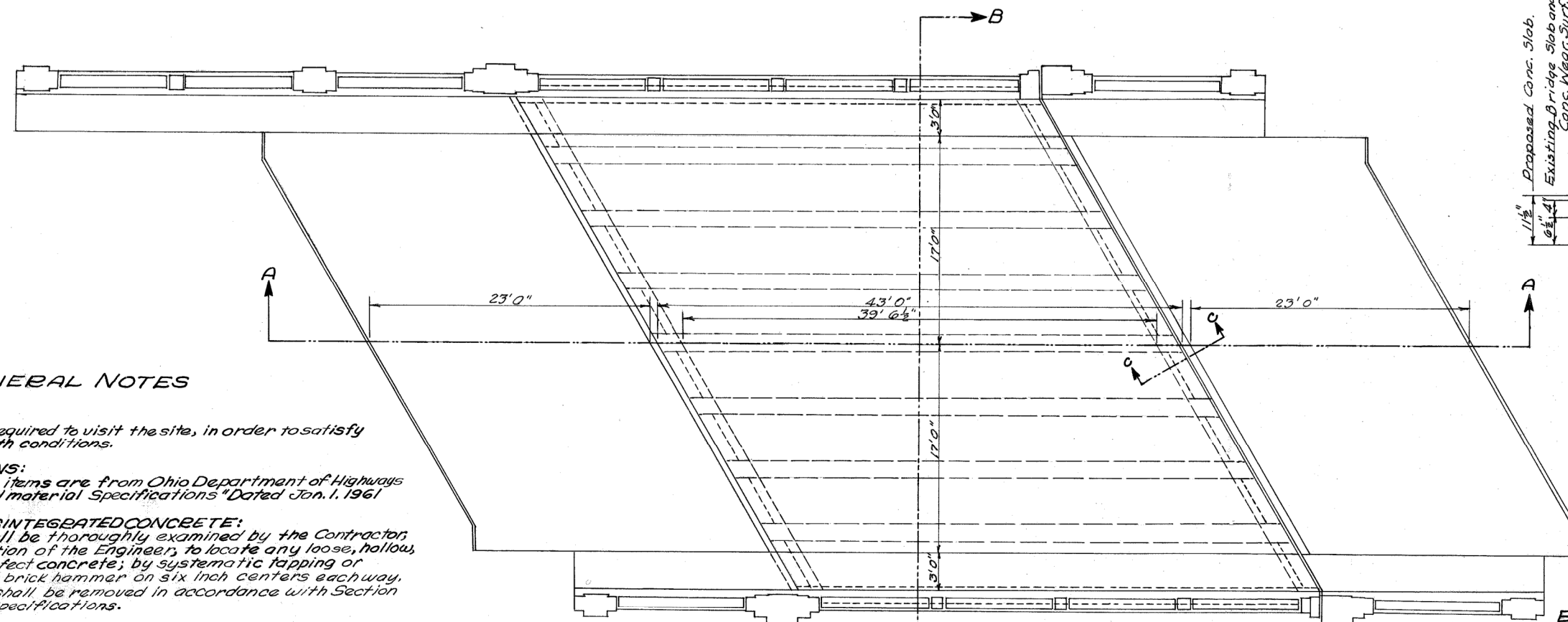












GENERAL NOTES

BIDDERS:

Bidders are required to visit the site, in order to satisfy themselves with conditions.

SPECIFICATIONS:

Specification items are from Ohio Department of Highways Construction and material Specifications "Dated Jan. 1, 1961"

REMOVAL OF DISINTEGRATED CONCRETE:

All areas shall be thoroughly examined by the Contractor under the direction of the Engineer, to locate any loose, hollow, or other imperfect concrete; by systematic tapping or sounding with a brick hammer on six inch centers each way. Unsound areas shall be removed in accordance with Section S-2.03 of the Specifications.

PREPARATION OF SURFACES:

The surfaces of areas to be repaired shall be prepared as outlined in Section S-2.04 of the Specifications, except that the grout shall be omitted.

BAR MAT:

Is to be $\frac{3}{8}$ " round deformed bars, spaced at 12" centers each way. Wherever splice is necessary, minimum length of splice shall be 12"

ITEM S-22

Removal of the 4 inch thick concrete wearing surface may be by pneumatic pavement breakers, but care shall be exercised in removing any decayed concrete underneath. This decayed concrete is to be removed only by sweeping or by blasting with a compressed air hose.

ITEM S-1

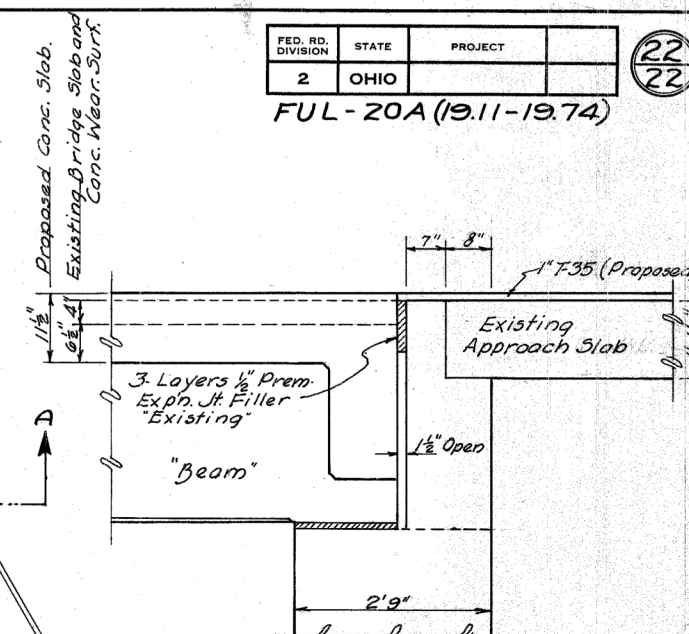
It is anticipated that in addition to the 5 inch thickness of the bar-mat reinforced slab, that an inch or so decayed concrete must be replaced with the same pour. The surface of the old slab shall be kept wet for two hours before new concrete is placed.

EXPANSION END

One end of Structure is Expansion End as Shown on Section C-C, this sheet. Any damage existing or done in removal operations to the pre-moulded expansion joint filler or to the open joint must be repaired by the Contractor and is included in Item S-1 for Payment.

PLACING OF BRIDGE DECK AND BRIDGE TRAFFIC

Two-way traffic on the bridge will be maintained at all times by laying the bridge deck in 3 separate widths of approximately 11'±.



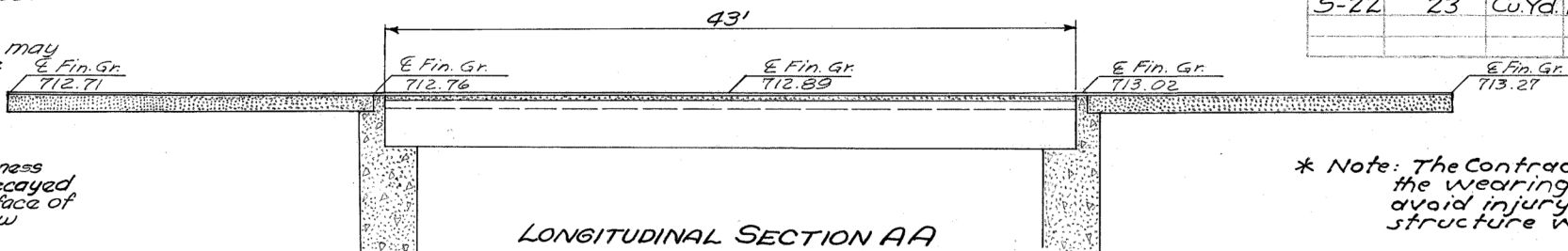
SECTION C-C
SHOWING EXPANSION END OF STRUCTURE
Existing Bit. Wearing Surface not shown.

ESTIMATED QUANTITIES

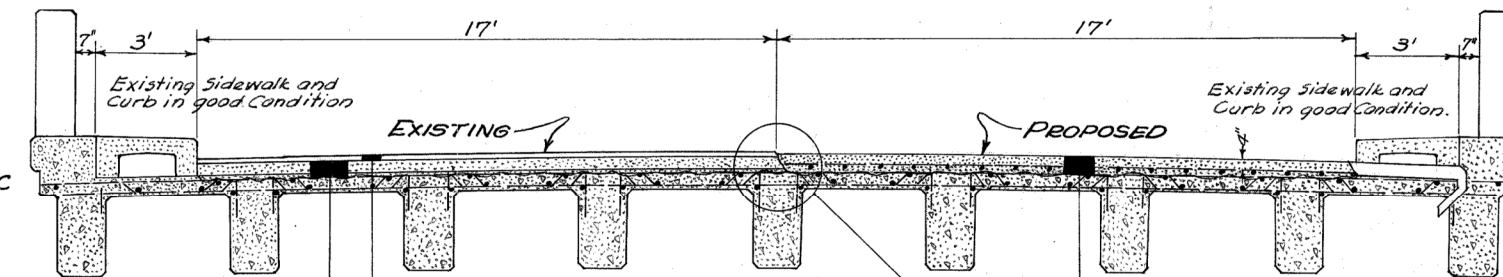
ITEM	QUANTITY	UNIT	DESCRIPTION
S-1	27	Cu.Yd.	Class C Concrete including Bar Mat
E-8	162	Sq.Yd.	Removal and Disposal of existing Bituminous Wearing Course, as per plan *
S-22	23	Cu.Yd.	Removal of portions of existing structure: Concrete.

Above quantities carried to General Summary, Sheet No. 4.

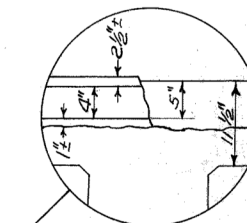
* Note: The Contractor is cautioned that the removal of the wearing course shall be so performed as to avoid injury to any portion of the existing structure which is to remain in place.



LONGITUDINAL SECTION AA



SECTION B-B



SLAB DETAIL

Item E-8 :- Removal of Portions of Existing Structure - Bituminous Wearing Surface

Item S-22: Removal of Portions of Existing Structure Concrete

Item S-1 :- Class C Concrete including Bar Mat