

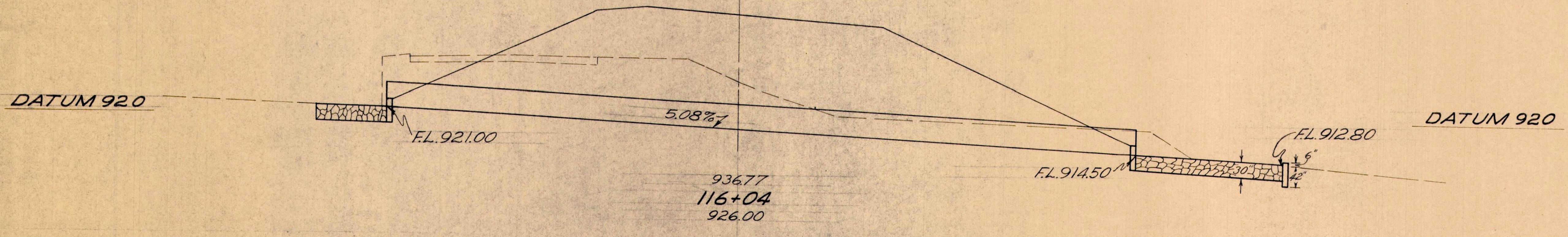
PLAN
Scale: 1"=10'

NOTE: ~ Gauge for Paved Bituminous Coated
Corr. Metal Pipe shall be No. 8 gauge.

WORK REQUIRED
Build Std. Pipe Culvert As Shown
ESTIMATED QUANTITIES

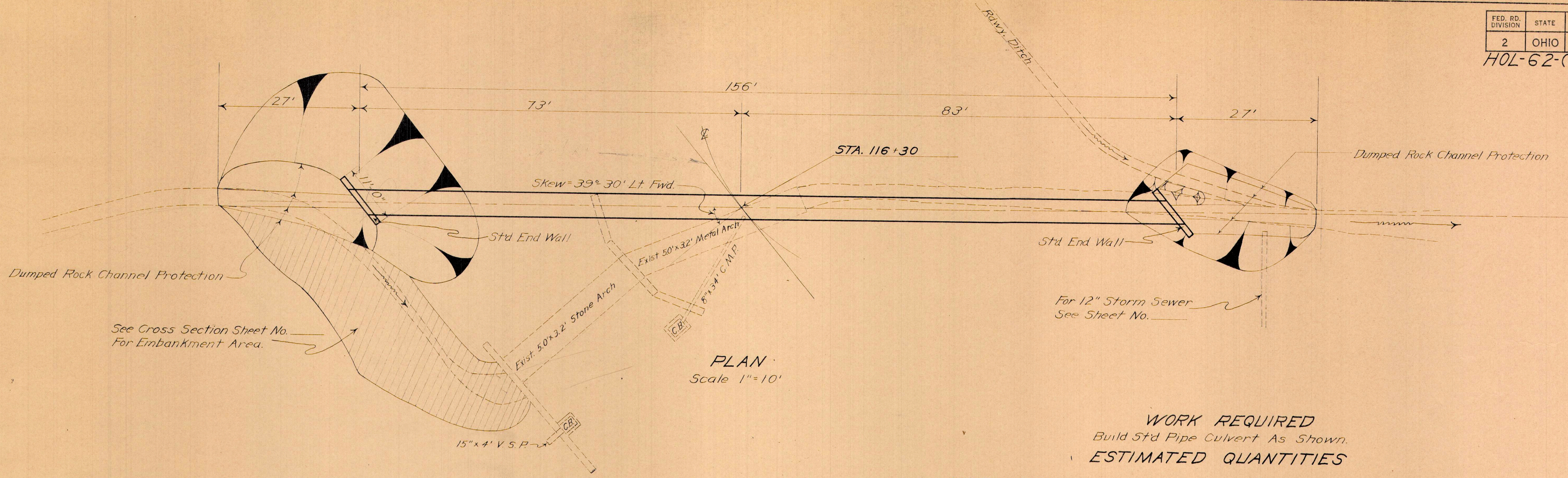
54" Paved Bituminous Coated Corrugated Metal Pipe, Sec. M-6.4(d)	128 L.F.
Channel Excavation	40 C.Y.
Excavation for Structure	284 C.Y.
Concrete for Structure (Class E)	3.9 C.Y.
Removal of Pipe (15' and Under)	38 L.F.
Catch Basins Abandoned	2 Each
Removal of Existing Structure (Stone Arch)	Lump Sum
Dumped Rock Channel Protection	34 C.Y.
Remove and Store 5.0x3.2 Corr. Metal Pipe Arch	34 L.F.

Area: .87 acres
Q_a: 98 c.f.s.



CROSS SECTION
Scale: 1"=10'

STA. 116+04-54"X128' PIPE CULVERT

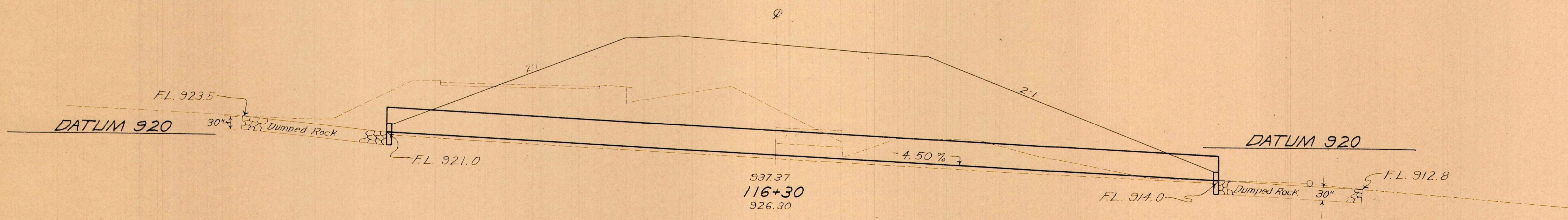


PLAN
Scale 1"=10'

WORK REQUIRED
Build Std Pipe Culvert As Shown.
ESTIMATED QUANTITIES

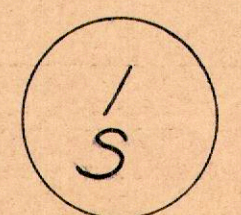
54" Paved Bituminous Coated Corrug. Metal Pipe Sec. M-6.4 (d)	156 Lin. Ft.
Excavation for Structures	245 Cu. Yds.
Concrete for Structures (Class "E")	30 Cu. Yds.
Removal of Pipe (15" and under)	38 Lin. Ft.
Catch Basins Abandoned	2 Each
Removal of Existing Structure (Stone Arch)	Lump Sum
Dumped Rock Channel Protection	52 Cu. Yds.
Channel Excavation	150 Cu. Yds.
Remove and Store 5.0' x 3.2' Corr. Met. Pipe Arch	34 Lin. Ft.

Area: 81 acres
Q₁₀: 98 c.f.s.



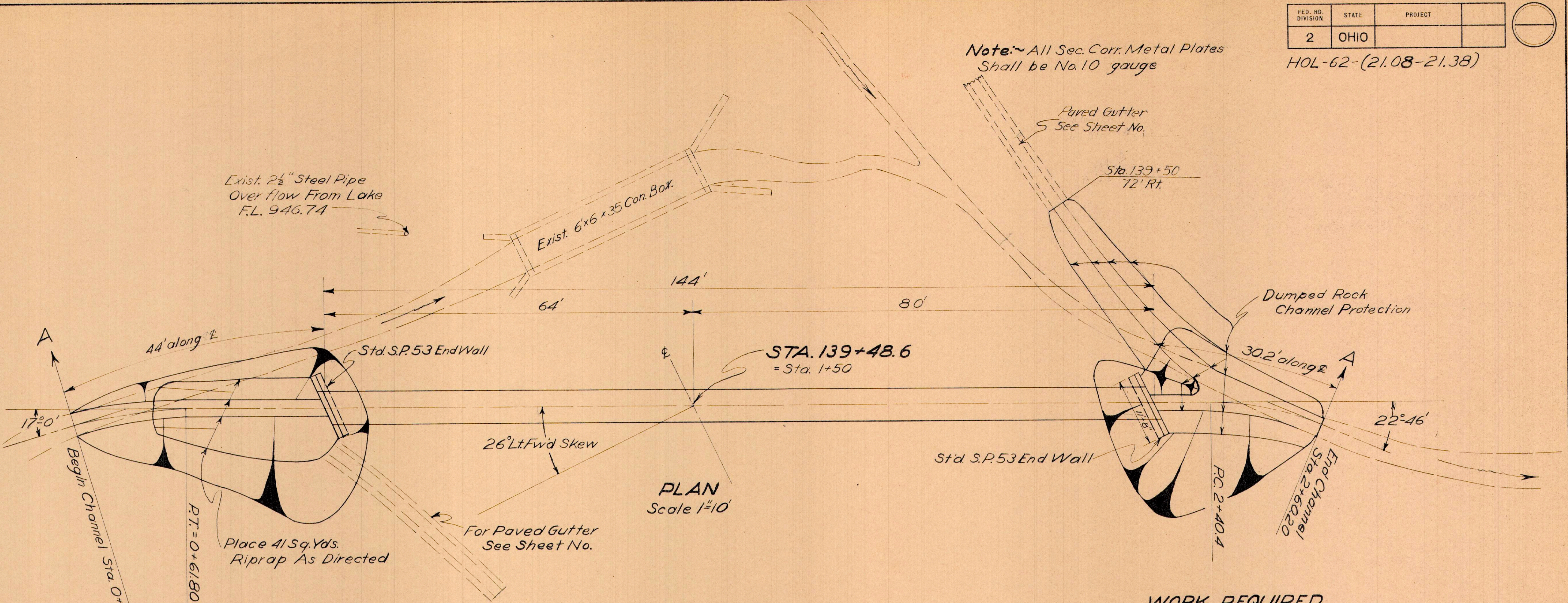
CROSS SECTION
Scale 1"=10'

STA. 116+30
54" x 156' PIPE CULVERT



Note: ~ All Sec. Corr. Metal Plates Shall be No. 10 gauge

Channel	E. Area	C.Ys
End Channel	0	
	62	
Ahead Back	110	82
	535	
	390	
Ahead Back	112	142
	116	
Beg. Channel	0	
Total		1345

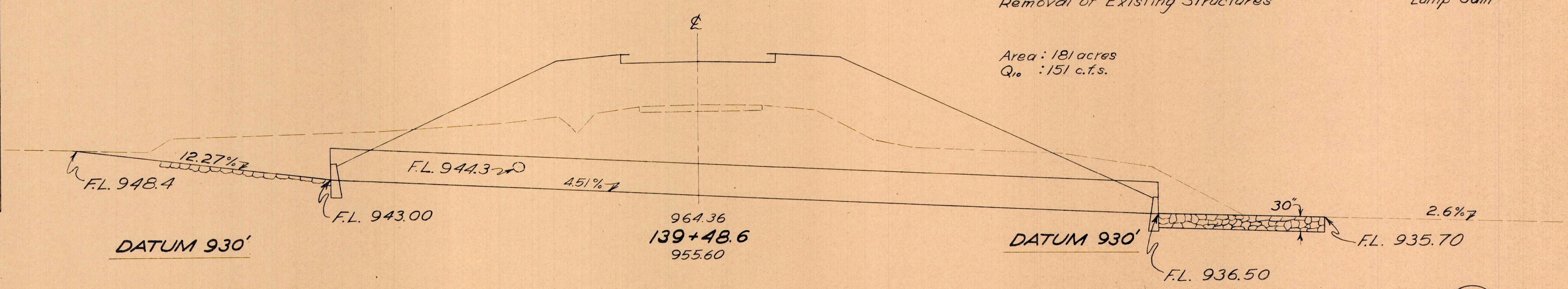


PLAN Scale 1"=10'

WORK REQUIRED
Build Std. Pipe Culvert As Shown
ESTIMATED QUANTITIES

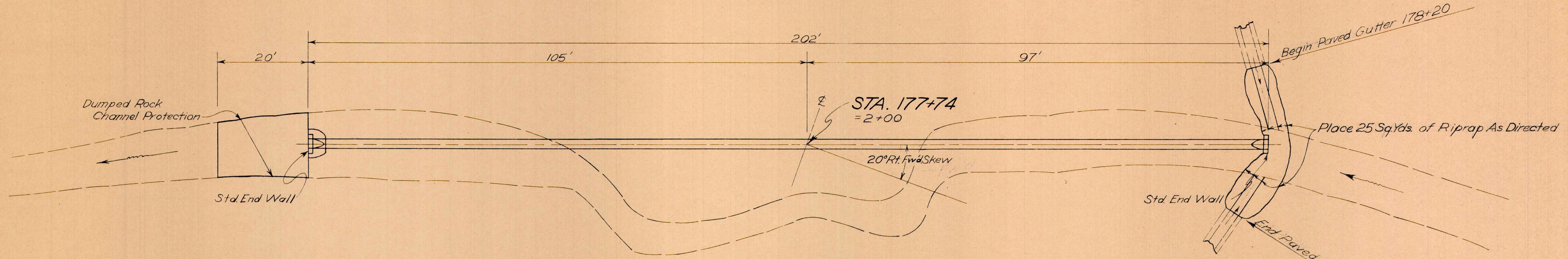
66" Bituminous Coated Sectional Corrugated Metal Pipe Structure, Sec. M-6.4 (g)(c), No. 10 gauge.	144 L.F.
Excavation for Structures	12 C.Y.
Channel Excavation	1345 C.Y.
Concrete for Structures (Class E)	5.3 C.Y.
Riprap	41 S.Y.
Dumped Rock Channel Protection	66 C.Y.
Removal of Existing Structures	Lump Sum

Area: 181 acres
Q₁₀: 151 c.f.s.



SECTION-AA Scale 1"=10'

STA. 139+48.6 - 66" x 144' PIPE CULVERT



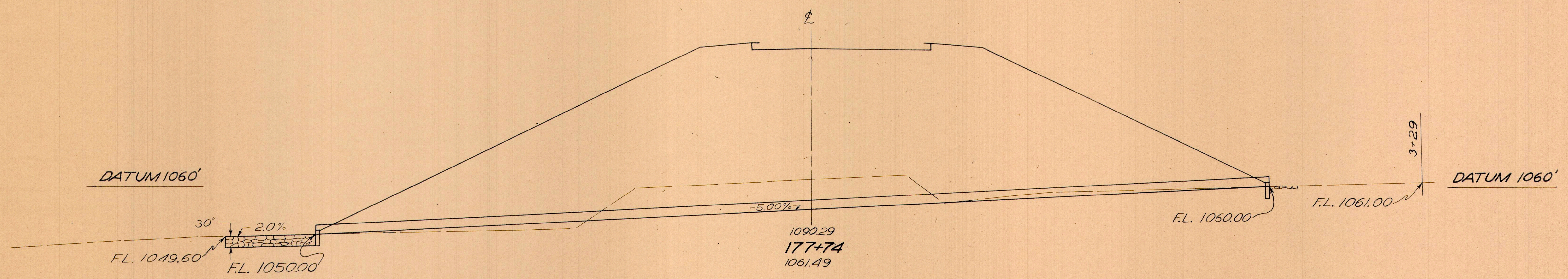
PLAN
Scale 1"=10'

WORK REQUIRED
Build Std. Pipe Culvert As Shown

ESTIMATED QUANTITIES

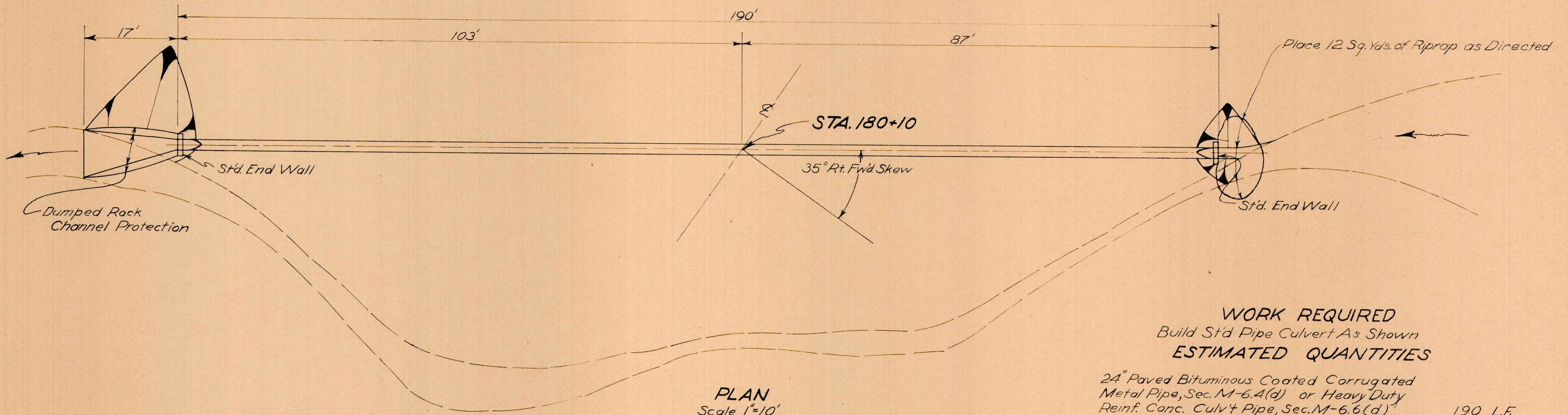
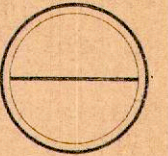
24" Paved Bituminous Coated Corrugated Metal Pipe, Sec. M-6.4(d) 14 Gauge or Heavy Duty Reint. Con. Pipe, Sec. M-6.6(d)	202 L.F.
Excavation for Structures	72 C.Y.
Concrete for Structures (Class E)	0.8 C.Y.
Dumped Rock Channel Protection	23 C.Y.
Riprap	25 S.Y.

Area : 16 acres
Q₁₀ : 31 c.f.s.



CROSS SECTION
Scale 1"=10'

STA. 177+74 - 24"x202' PIPE CULVERT

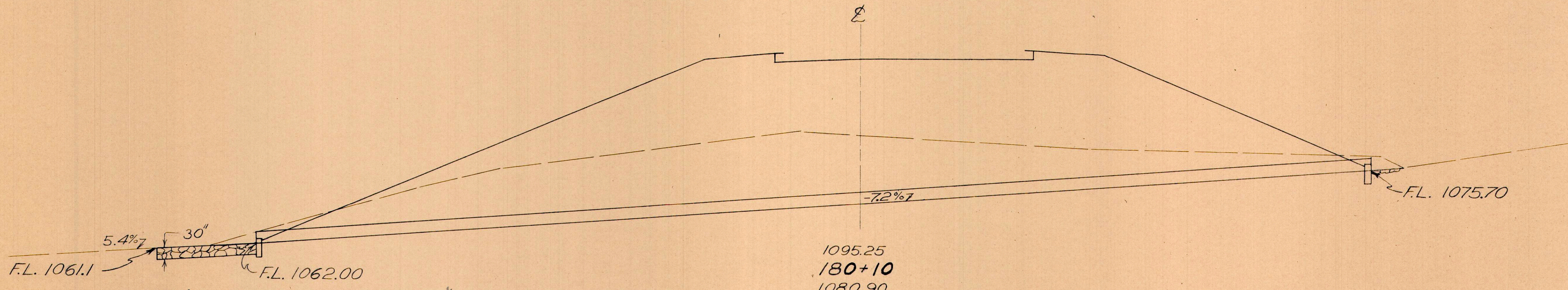


PLAN
Scale 1"=10'

WORK REQUIRED
Build Std Pipe Culvert As Shown
ESTIMATED QUANTITIES

24" Paved Bituminous Coated Corrugated Metal Pipe, Sec. M-6.4(d) or Heavy Duty Reinf. Conc. Culvt Pipe, Sec. M-6.6(d)	190 L.F.
Excavation for Structures	201 C.Y.
Channel Excavation	13 C.Y.
Concrete for Structures (Class E)	0.8 C.Y.
Dumped Rock Channel Protection	11 C.Y.
Riprap	12 S.Y.

Area: 16 acres
Q₁₀: 31 c.f.s.



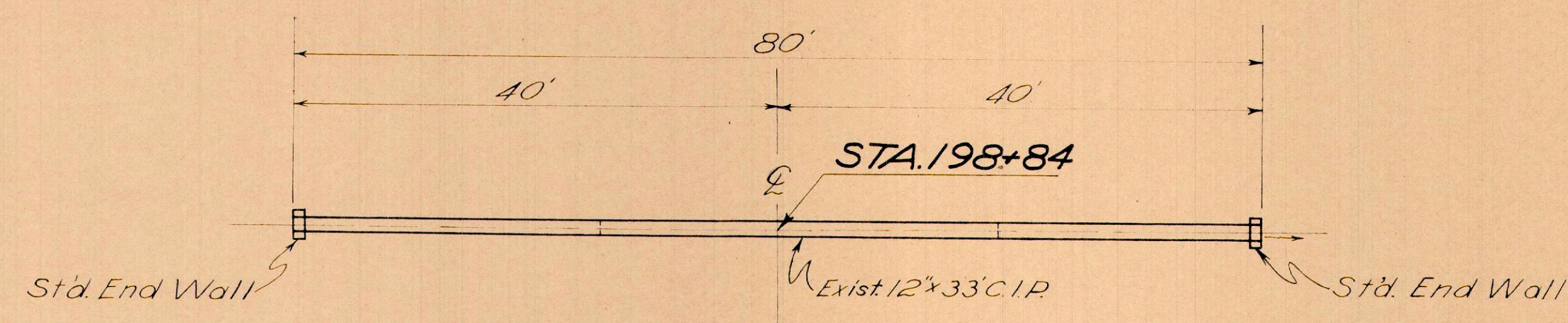
CROSS SECTION
Scale 1"=10'

DATUM 1050'

STA. 180+10 - 24" x 190' PIPE CULVERT

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

HOL-62-(21.08-21.38)

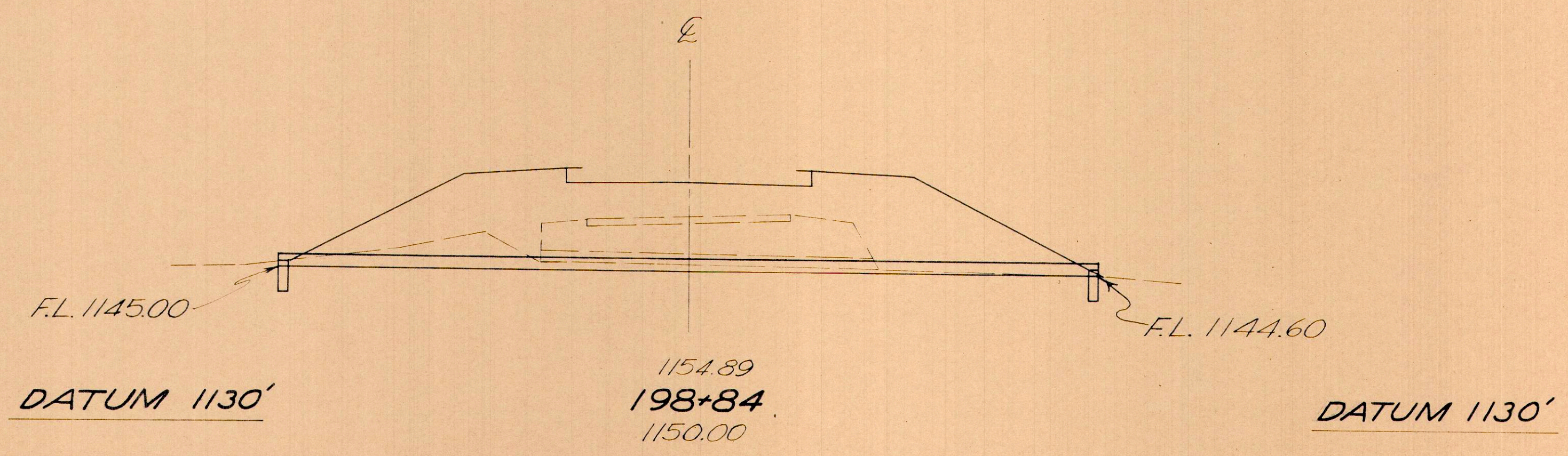


PLAN
Scale: 1"=10'

WORK REQUIRED
Build Std. Pipe Culvert As Shown

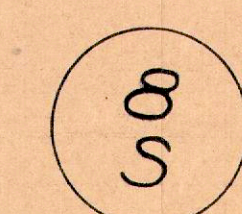
ESTIMATED QUANTITIES

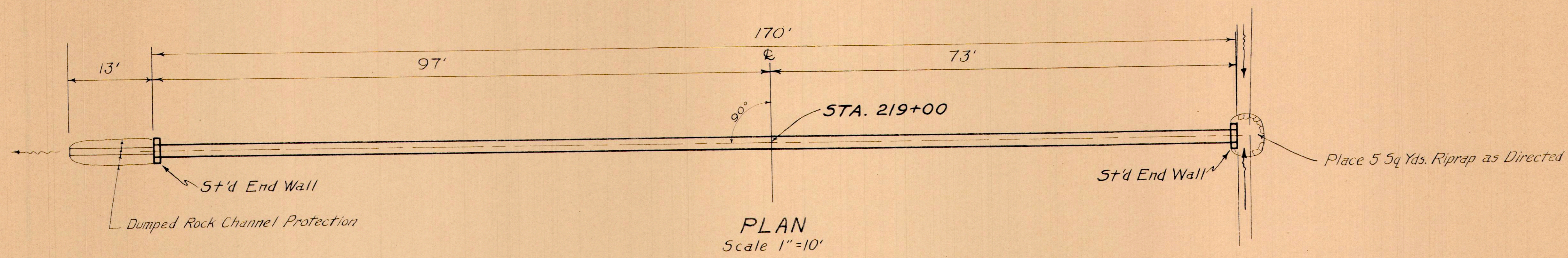
15" Pipe for Roadway Culverts	80 L.F.
Excavation for Structure	19 C.Y.
Concrete for Structure (Class E)	05 C.Y.
Pipe Removal (15" and Under)	33 L.F.



CROSS SECTION
Scale: 1"=10'

STA. 198+84
15" x 80' PIPE CULVERT



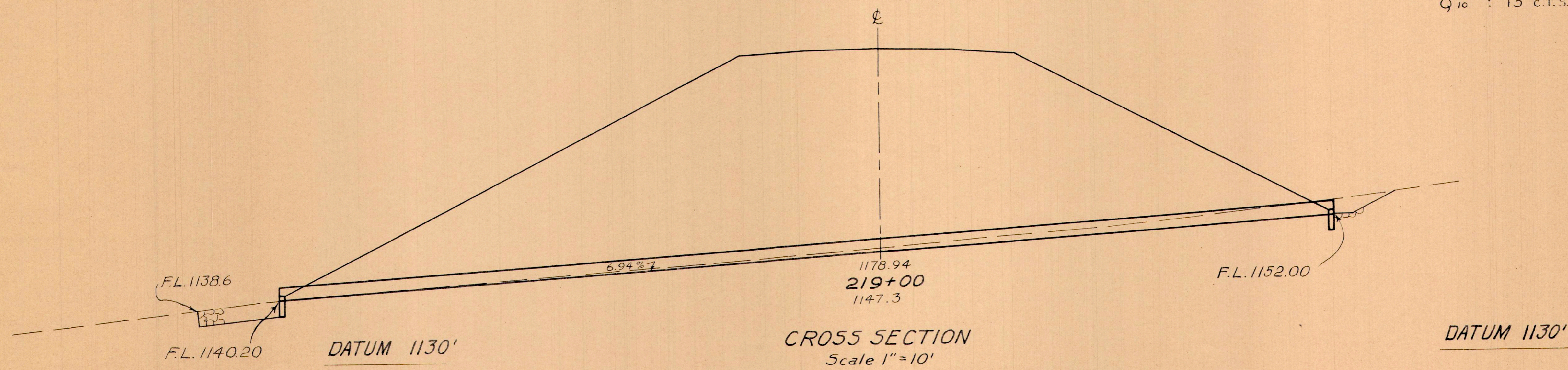


Work Required
 Build Std Pipe Culvert As Shown

Estimated Quantities

24" Paved Bituminous Coated Corrug. Metal Pipe, Sec. M-6.4 (d) 14 gauge or Heavy Duty Reinforced Concrete Culvert Pipe, Sec. M-6.6 (d)	170 L.F.
Excavation for Structures	44 C.Y.
Concrete for Structures (Class E)	0.8 C.Y.
Dumped Rock Channel Protection	5 C.Y.
Riprap	5 Sq.Y.

Area: 4 Acres
 Q₁₀: 13 c.f.s.



DATUM 1130'

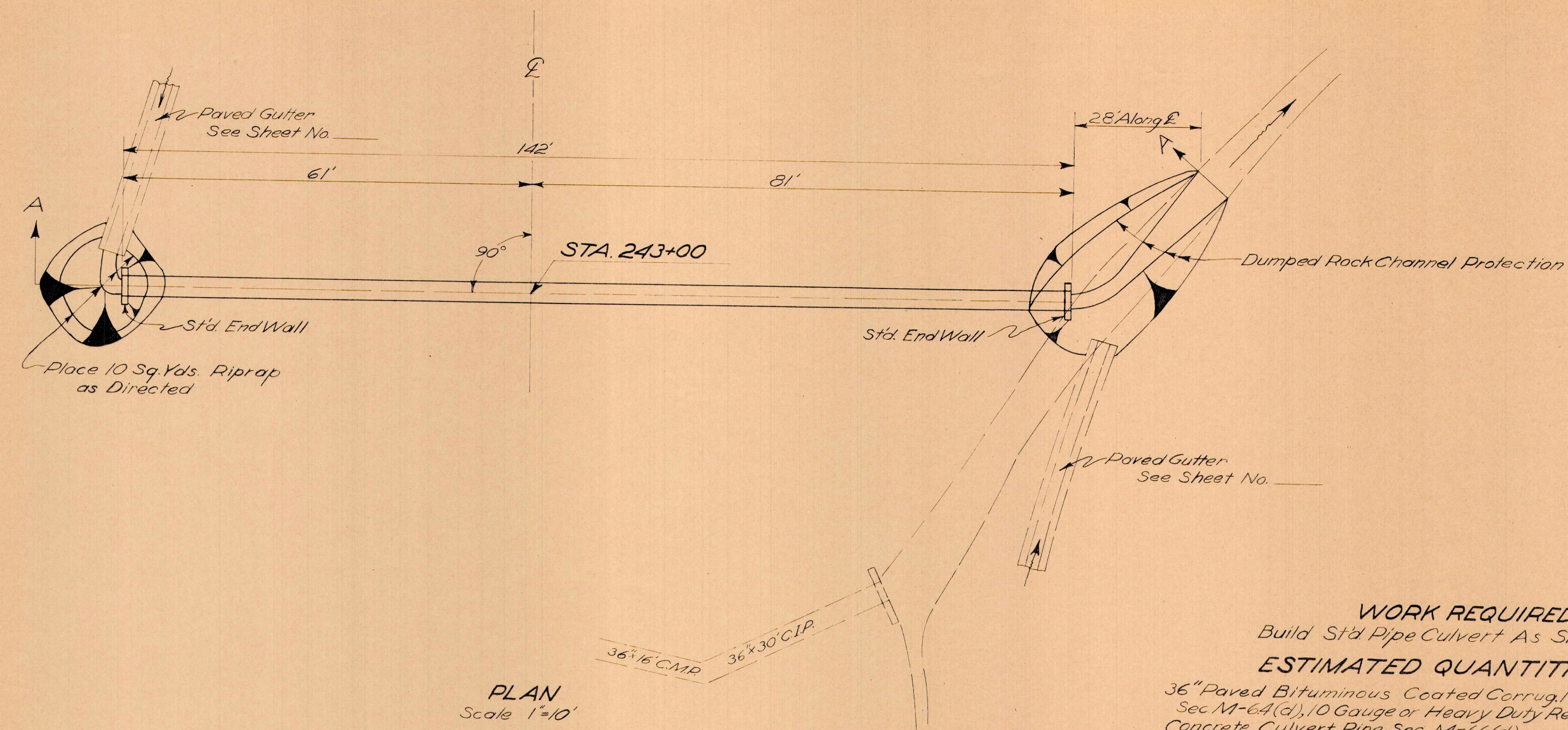
STA. 219+00

24" x 170' PIPE CULVERT

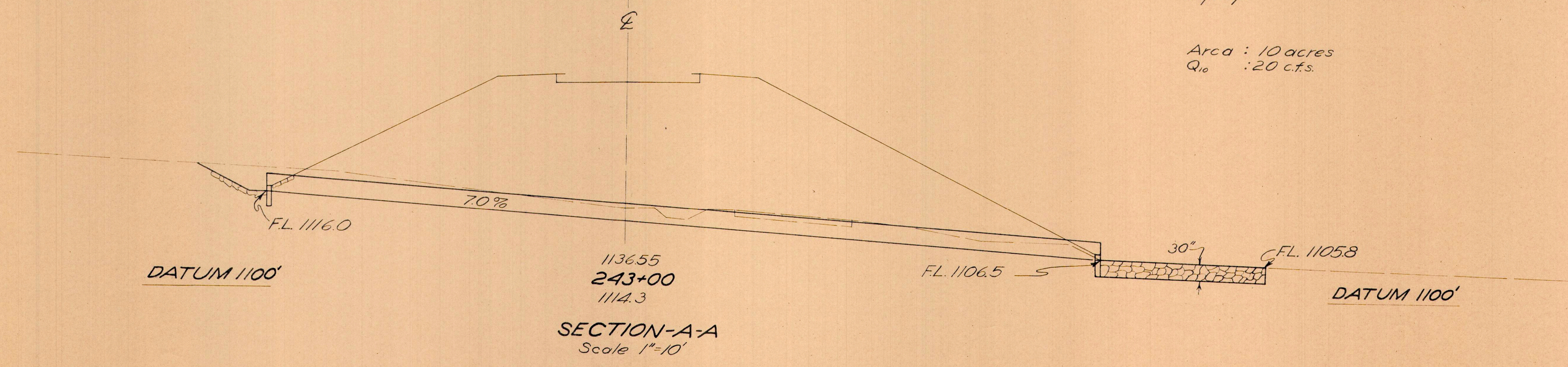
(9/5)

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

HOL-62-(2108-2138)



PLAN
Scale 1"=10'



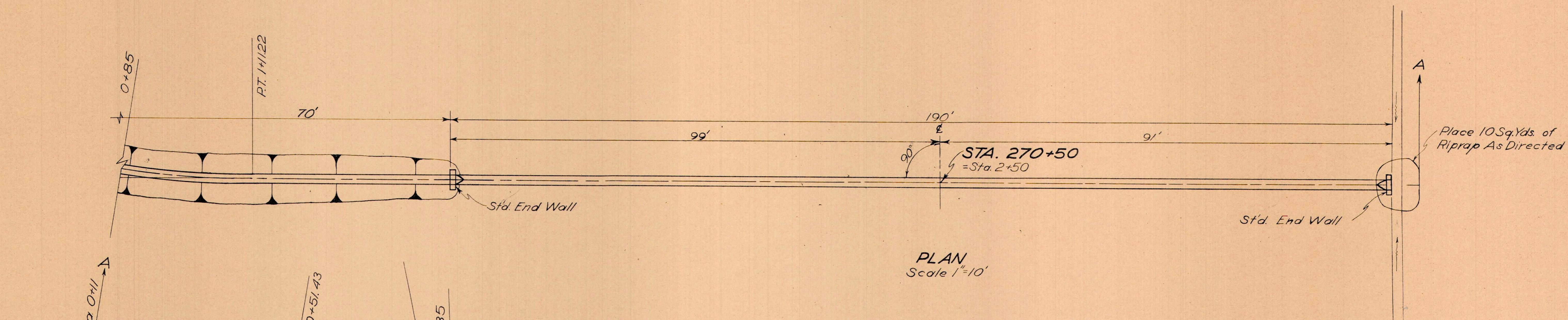
SECTION-A-A
Scale 1"=10'

WORK REQUIRED
Build Std Pipe Culvert As Shown

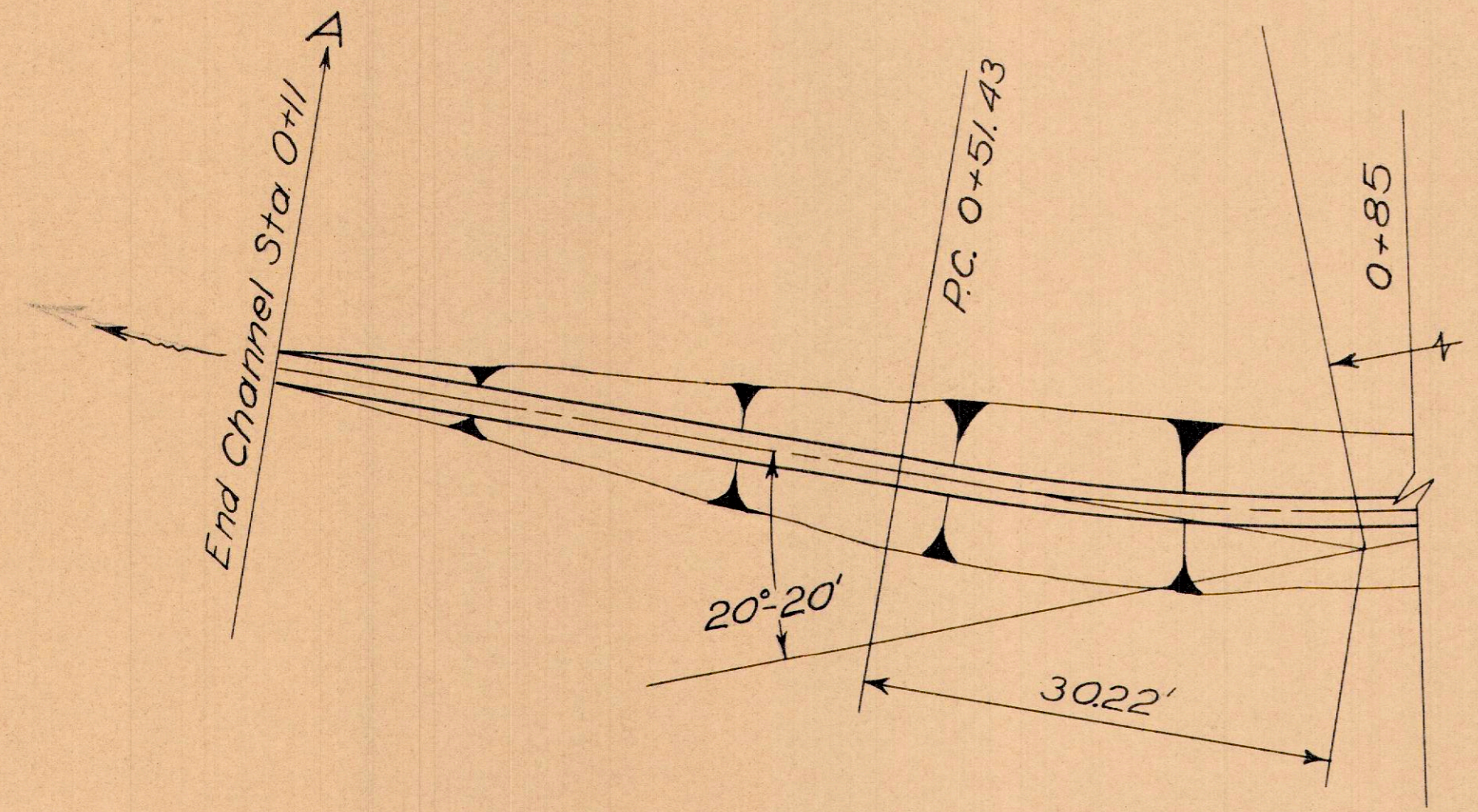
ESTIMATED QUANTITIES	
36" Paved Bituminous Coated Corrug Metal Pipe, Sec M-6A(d), 10 Gauge or Heavy Duty Reinforced Concrete Culvert Pipe, Sec. M-66(d)	142 LF
Removal of Portion of Existing Structures	2 CY
Pipe Removed (36" Over 15")	46 LF
Dumped Rock Channel Protection	30 CY
Excavation for Structures	120 CY
Concrete for Structures (Class E)	1.2 CY
Riprap	10 SY

Area : 10 acres
Q₁₀ : 20 c.f.s.

STA. 243+00 - 36" x 142' PIPE CULVERT

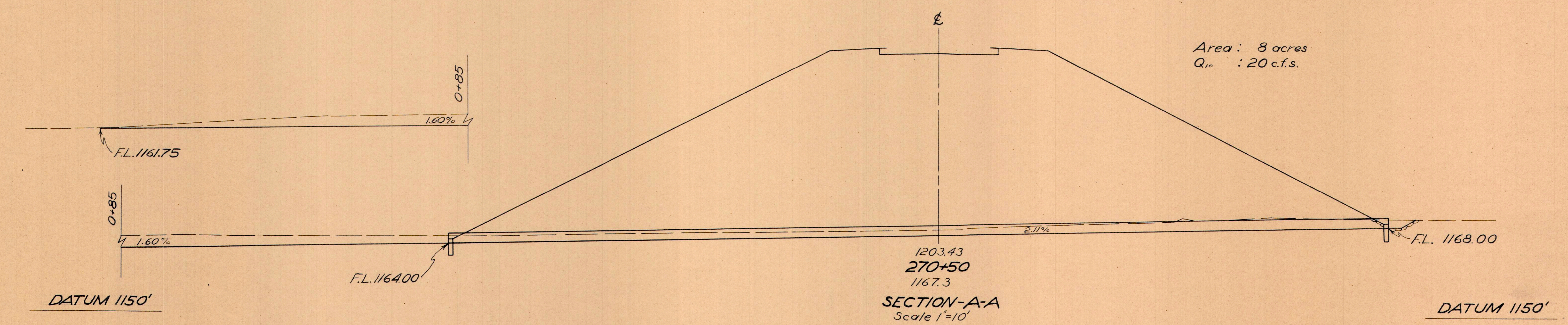


PLAN
Scale 1"=10'



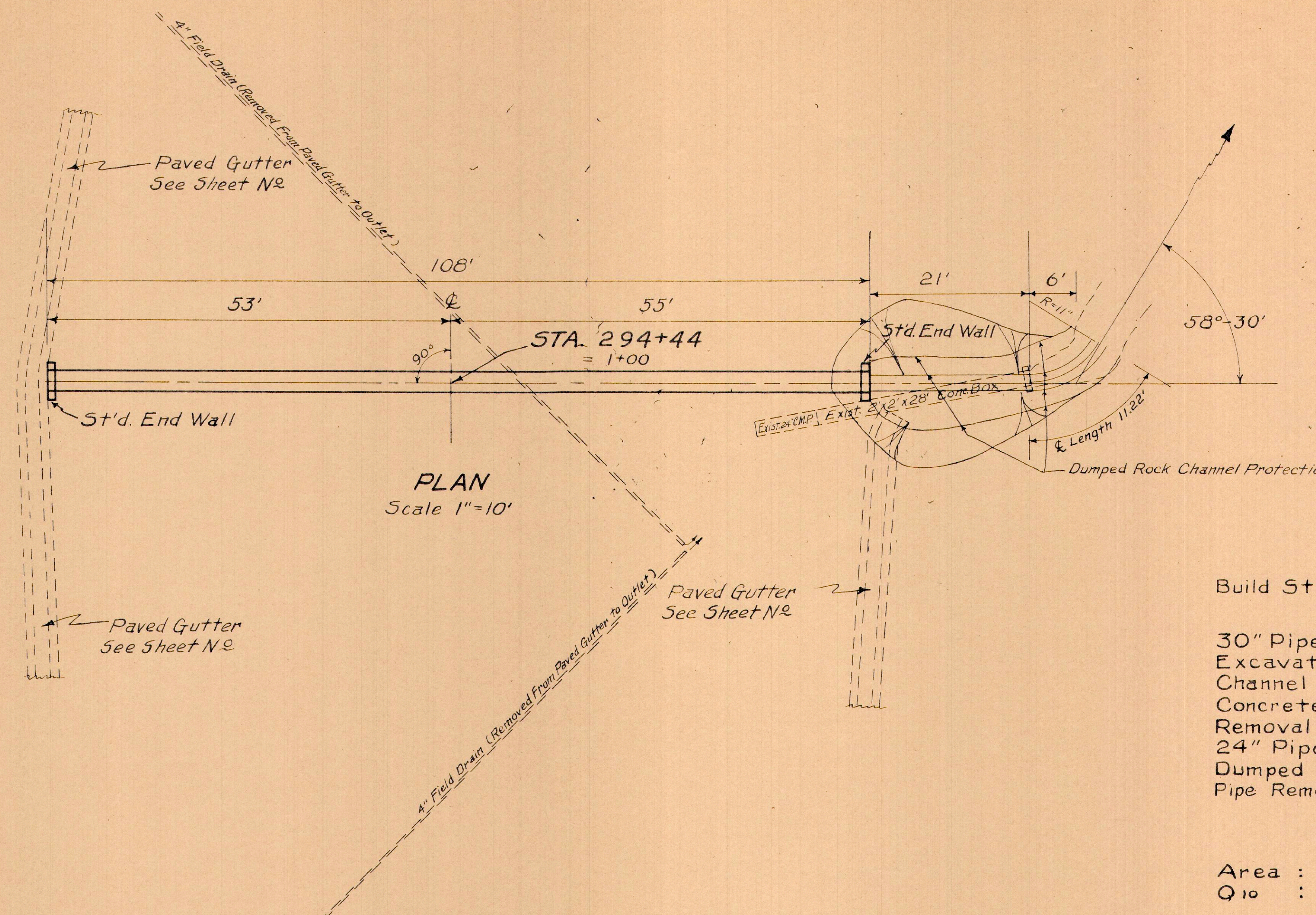
WORK REQUIRED
Build Std. Pipe Culvert As Shown
ESTIMATED QUANTITIES

24" Paved Bituminous Coated Corrugated Metal Pipe, Sec. M-6.4 (d), 12 gauge	190 L.F.
Excavation for Structures	60 C.Y.
Channel Excavation	44 C.Y.
Concrete for Structures (Class E)	0.8 C.Y.
Riprap	10 SY.



SECTION-A-A
Scale 1"=10'

STA. 270+50 - 24" x 190' PIPE CULVERT

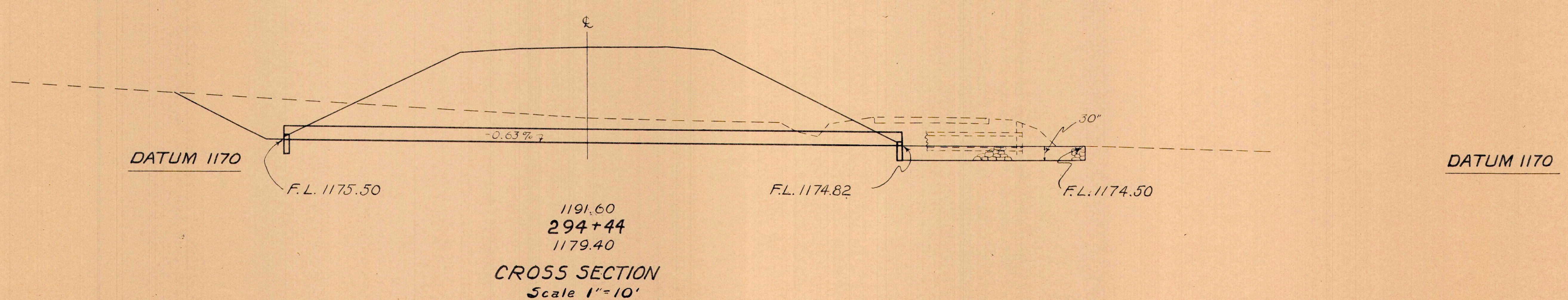


WORK REQUIRED
Build Std. Pipe Culvert As Shown

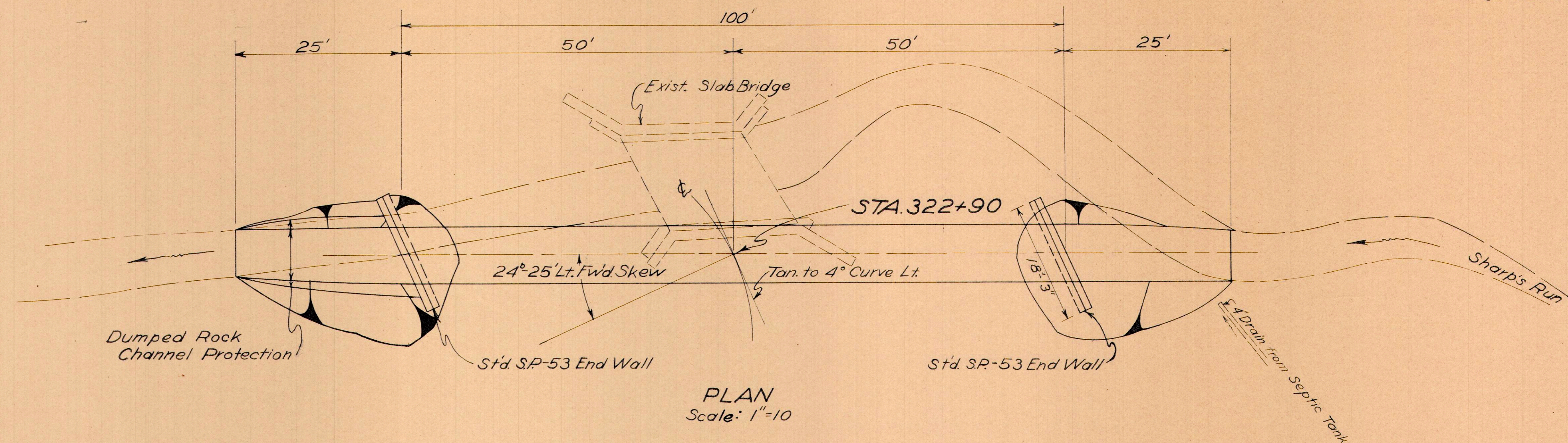
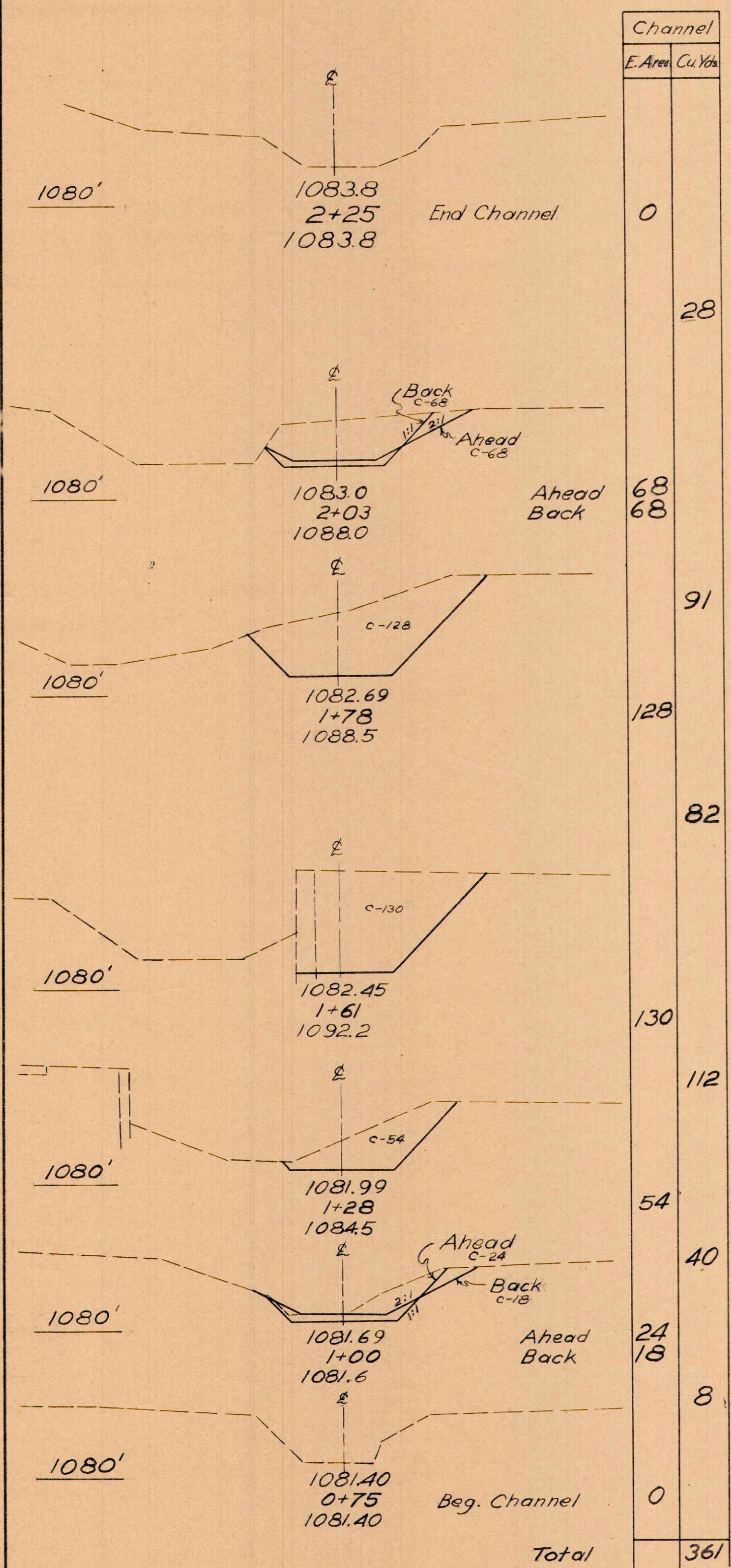
ESTIMATED QUANTITIES

30" Pipe for Roadway Culverts	108	Lin. Ft.
Excavation for Structures	120	Cu. Yds.
Channel Excavation	30	Cu. Yds.
Concrete for Structures (Class E)	1.0	Cu. Yds.
Removal of Portions of Existing Structures	9	Cu. Yds.
24" Pipe Removed	8	Lin. Ft.
Dumped Rock Channel Protection	35	Cu. Yds.
Pipe Removed (4" Field Drain)	220	Lin. Ft.

Area : 10 Acres
Q₁₀ : 24 c.f.s.



14
5
STA. 294+44
30"x108' PIPE CULVERT

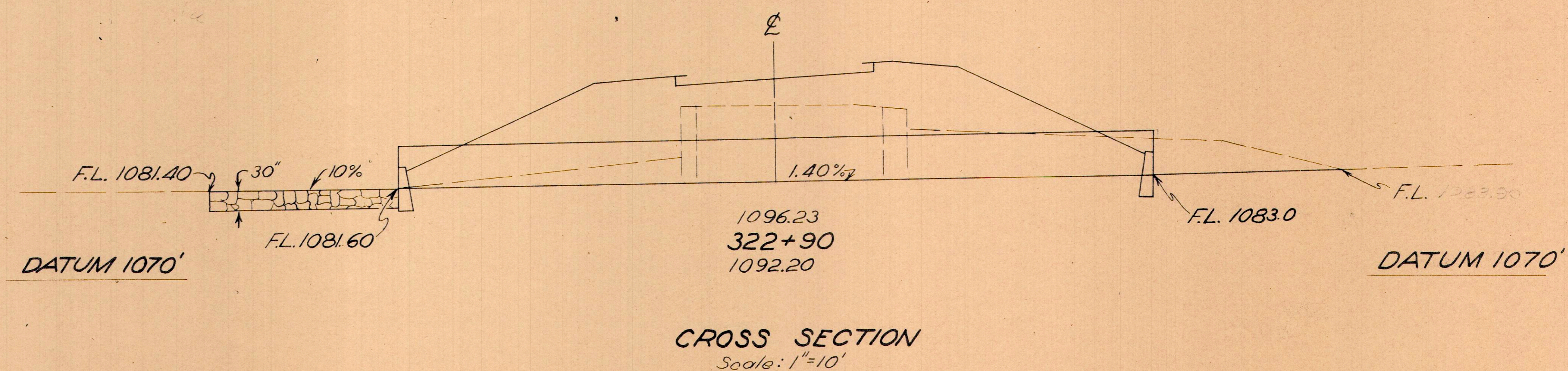


WORK REQUIRED
Build Std Pipe Culvert As Shown
ESTIMATED QUANTITIES

8'-7"x5'-11" Sectional Corr. Metal Plate Arch	100 L.F.
Structure - Sec. M-6.4(g)(d)	18 C.Y.
Excavation for Structures	361 C.Y.
Channel Excavation	106 C.Y.
Concrete for Structures (Class E)	24 C.Y.
Dumped Rock Channel Protection	Lump Sum
Removal of Existing Structure	

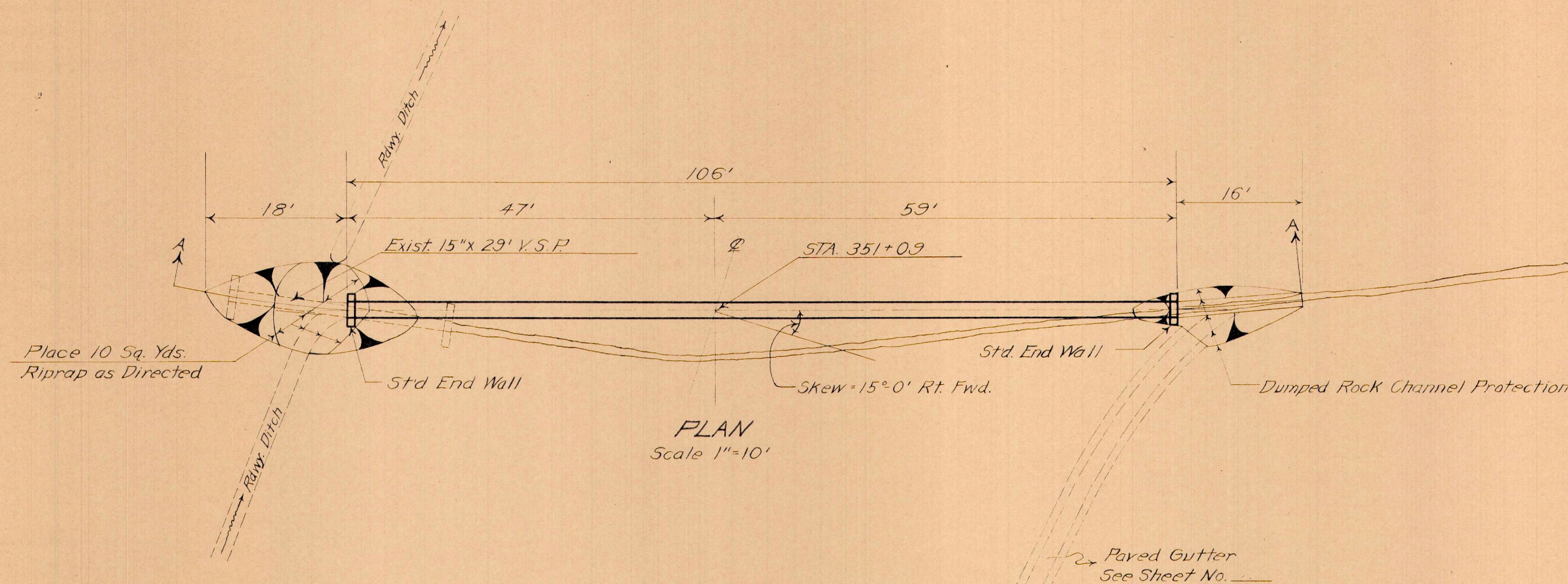
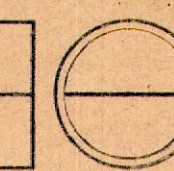
Area : 336 acres
Q₁₀ : 246 c.f.s.

Note: ~ For details not shown see Std. Dwg S.P.-53 Plates shall be formed with 2" corrugations and shall be No. 10 gage for all plates except bottom and corner plates which will be No. 8 gage.



CROSS SECTION
Scale: 1"=10'

STA. 322+90
8'-7"x5'-11" x 100' SECT. CORR. METAL PIPE ARCH STRUCT.

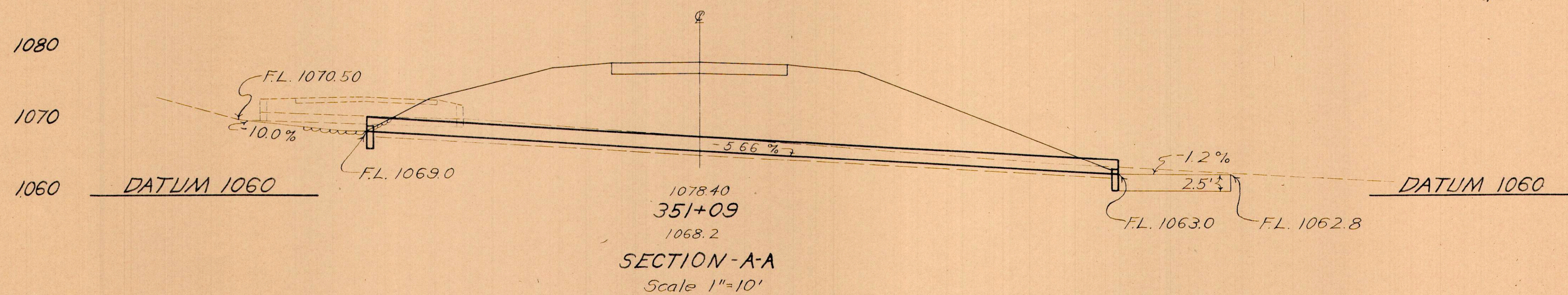


WORK REQUIRED
Build Std. Pipe Culvert as shown.

ESTIMATED QUANTITIES

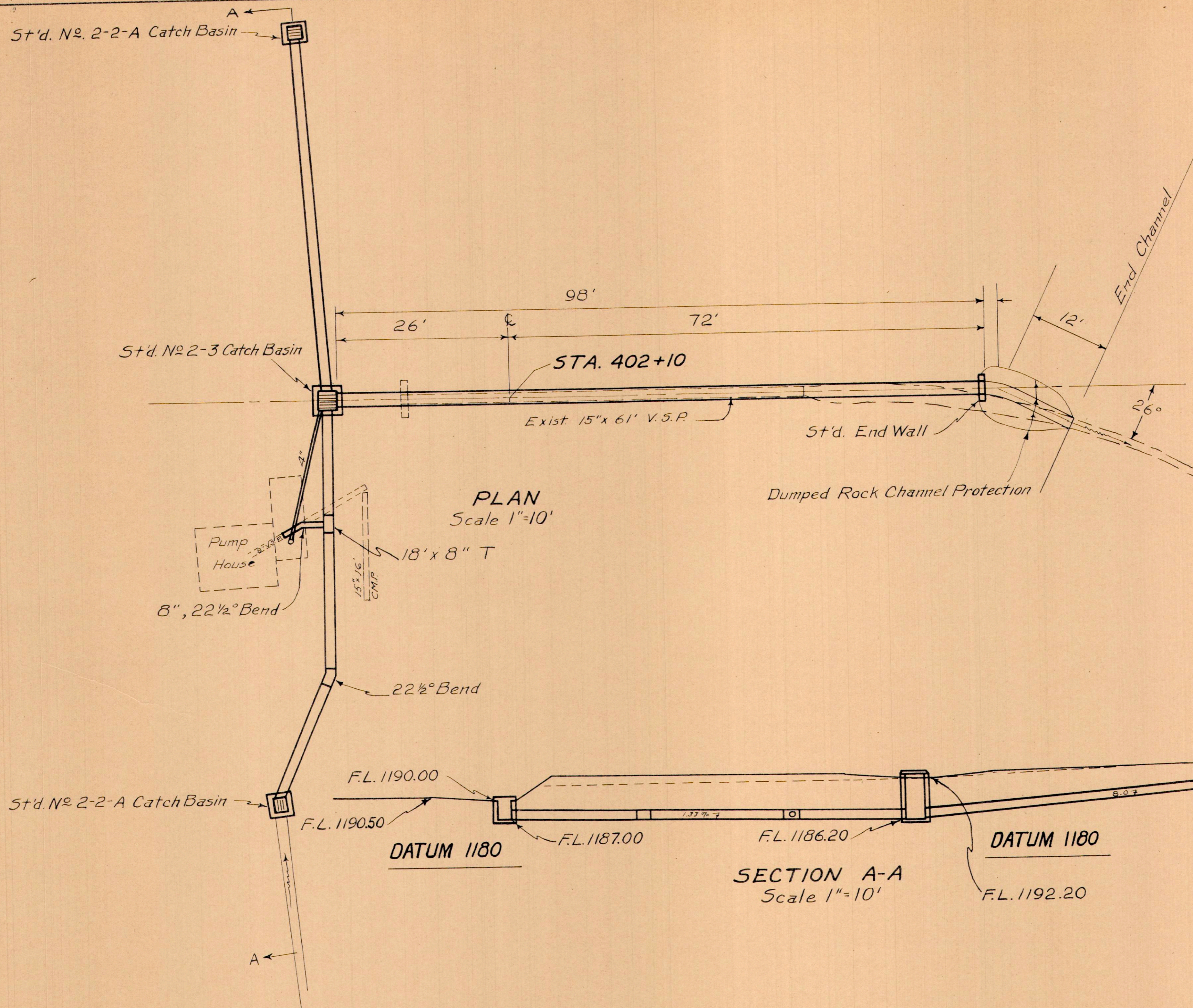
24" Pipe for Roadway Culvert	106 Lin. Ft.
Excavation for Structures	34 Cu. Yds.
Channel Excavation	5 Cu. Yds.
Concrete for Structures (Class 'E')	0.80 Cu. Yds.
Riprap	10 Sq. Yds.
Dumped Rock Channel Protection	8 Cu. Yds.
Pipe Removal (15")	29 Lin. Ft.
Removal of Portions of Exist. Structure	2 Cu. Yds.

Area: 10 acres
Q₁₀: 15 c.f.s.



STA. 351+09
24" x 106' PIPE CULVERT

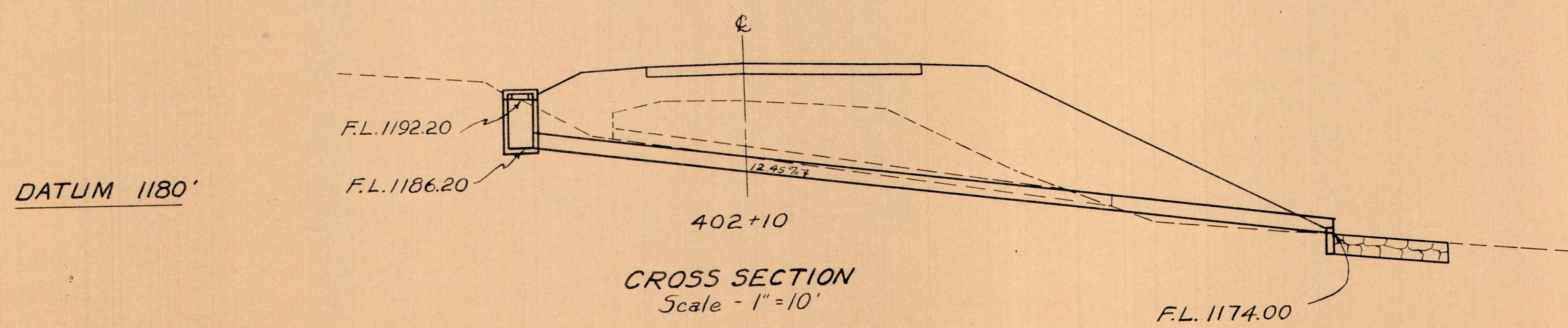
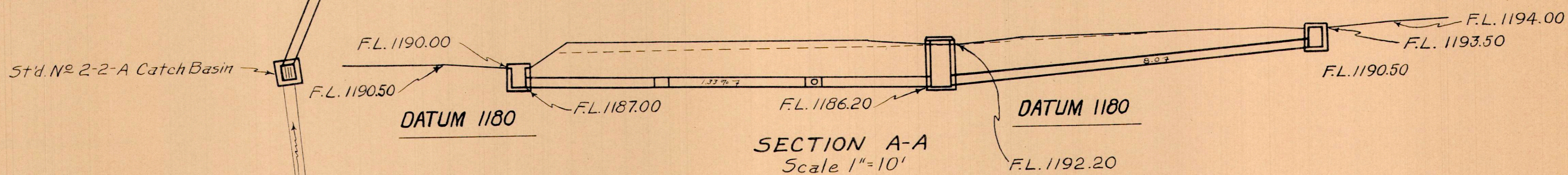
17
S



WORK REQUIRED
Build St'd. Pipe Culvert and St'd. No. 2-3 Catch Basin as Shown

ESTIMATED QUANTITIES

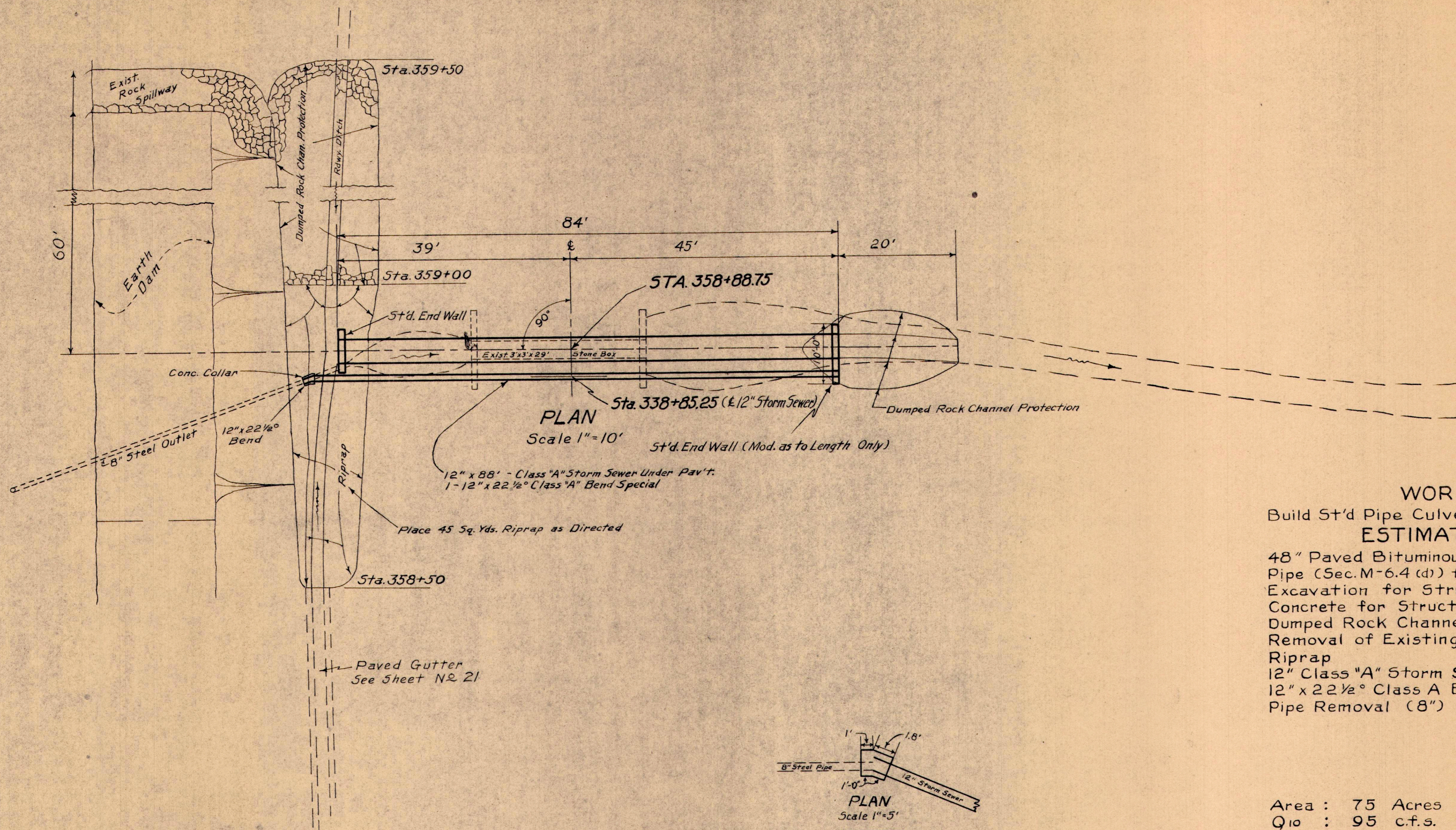
24" Pipe for Roadway Culverts	98	L.F.
Excavation for Structures	59	C.F.
Concrete for Structures (Class E)	0.4	C.Y.
St'd. No. 2-3 Catch Basin	1	Each
St'd. No. 2-2-A Catch Basin	2	Each
18" Class A Storm Sewer	108	L.F.
Pipe Removed (15" and Under)	87	L.F.
Removal of Portions of Existing Structures	1	C.Y.
18" x 8" T, Pipe Special, Class A Storm Sewer	1	Each
18", 22 1/2° Bend, Pipe Special, Class A Storm Sewer	1	Each
Dumped Rock Channel Protection	10	C.Y.
8", 22 1/2° Bend, Pipe Special	1	Each
8" Class A Storm Sewer	6	L.F.
4" Class A Storm Sewer	10	L.F.



Area : 9 Acres
Q₁₀ : 22 c.f.s.

DATUM 1180

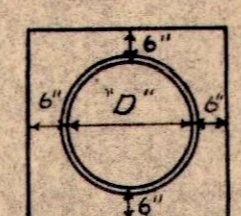
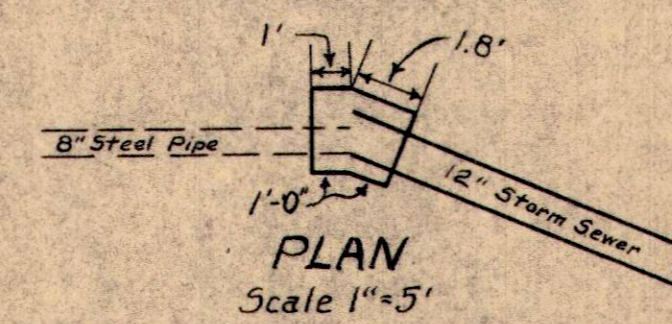
STA. 402+10
24" x 98' PIPE CULVERT



WORK REQUIRED
Build St'd Pipe Culvert As Shown

ESTIMATED QUANTITIES

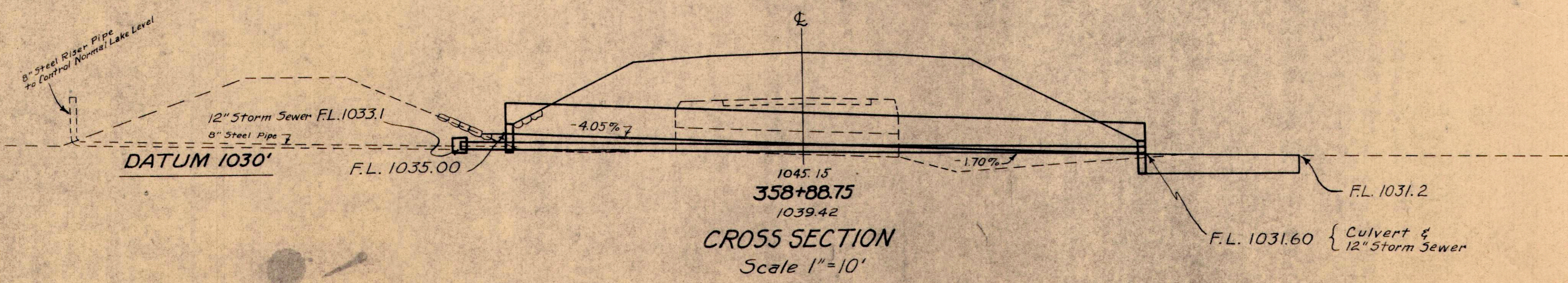
48" Paved Bituminous Coated Corrg. Metal Pipe (Sec. M-6.4 (d)) for Rdwy. Culvert	84	L.F.
Excavation for Structures	4	C.Y.
Concrete for Structures (Class E)	2.4	C.Y.
Dumped Rock Channel Protection	67	C.Y.
Removal of Existing Structure	Lump	Sum
Riprap	45	Sq. Y.
12" Class "A" Storm Sewer Under Pav't	88	Lin. Ft.
12" x 22 1/2° Class A Bend Special	1	Each
Pipe Removal (8")	8	Lin. Ft.



SECTION

CONCRETE COLLAR FOR 12" STORM SEWER

Area : 75 Acres
Q₁₀ : 95 c.f.s.



CROSS SECTION
Scale 1"=10'

DATUM 1030'

STA. 358+88.75
48" x 94' PIPE CULVERT