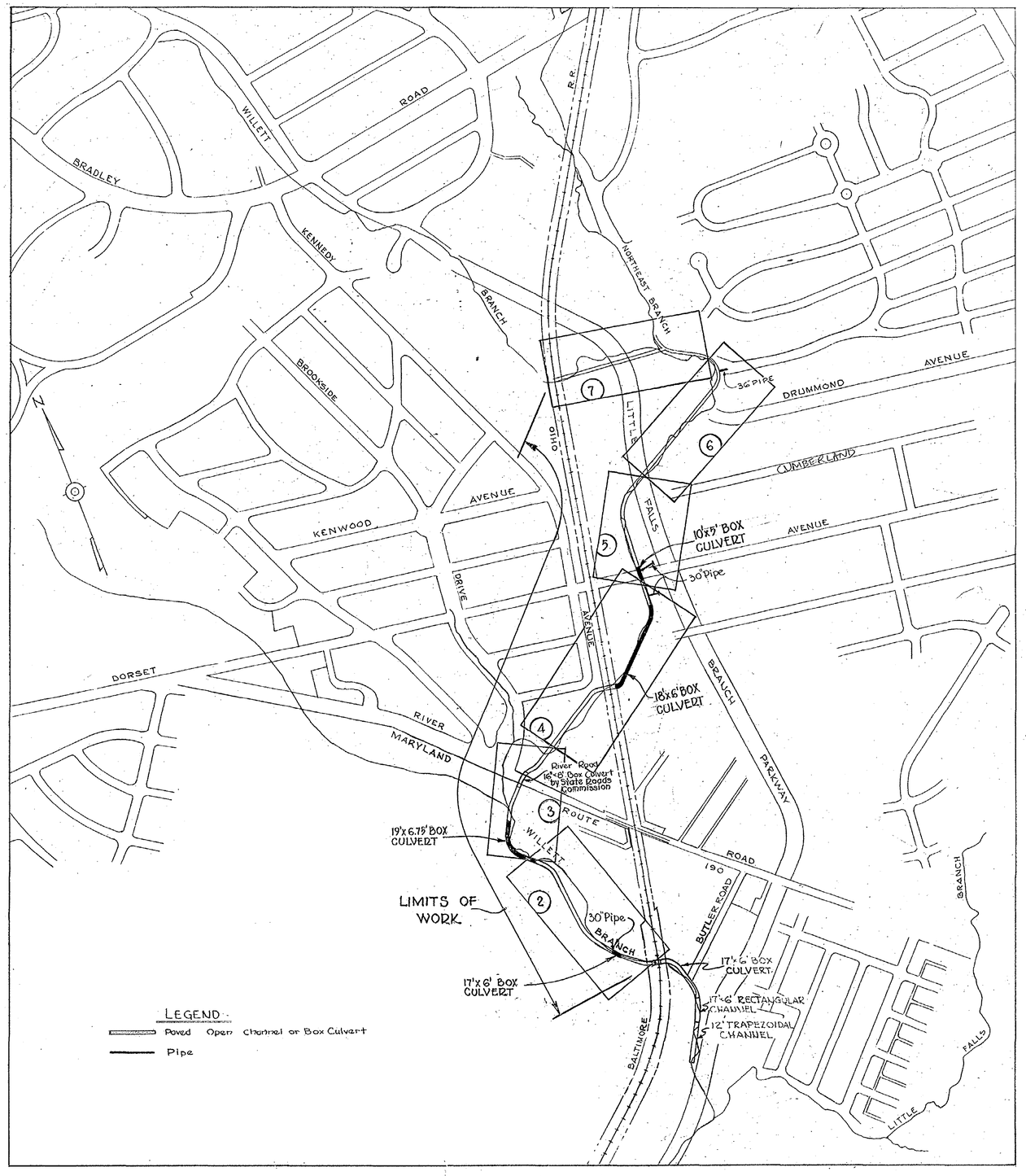
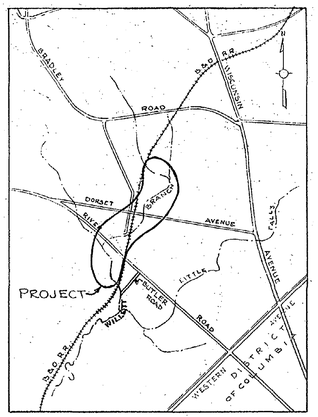
BENCH MARKS

1.- WSSC 17108 TP #3 N&W in north side 16" maple 70'± South of Little Falls Branch 250'± north west of end of court at Westridge Road Elev. 195.50
2.- WSSC #376 □ on Δ ledge west end of northeast wing wall of B.&O. R.R. Culvert about 850' north of River Road Elev. 250.670
3.- WSSC #378 ⊞ Northeast corner wall of B.&O. R.R. Culvert approx. 2850 ft. north of River Road and 2300' south of Bradley Road Elev. 276.139



LOCATION PLAN
SCALE: 1"=400'



VICINITY MAP
Scale 1"=1/2 Mile

GENERAL NOTES

1.- All elevations shown are based on W.S.S.C. datum.
2.- All pipe, box culvert and channel elevations shown are invert elevations unless otherwise noted.
3.- Information concerning existing underground utilities is based on the most accurate data available. The contractor shall dig test pits well in advance of trenching to determine the exact location of the utilities. Where there is interference between the location of the existing utility and the proposed work, the existing utility shall be relocated by others as directed by the Engineer.
4.- The Commision will not acquire construction strips or R/W's or Easements other than those shown on the drawings.
5.- Deleted
6.- All excavated material not required for backfill or fill shall become the property of the Contractor and shall be removed from the site.
7.- All changes in channel bottom widths and depths shall be constant between the limits shown on the drawings.
8.- "Left" and "Right" terms are based on orientation looking upstream
9.- Paved channels and box culverts are shown thus: ▭ Sodded channels are shown thus: ▨.
10. The contractor shall fill and grade the existing stream bed except where directed. Grading shall be done in such a manner as to insure positive drainage.
11. Approximate top of cut slopes are shown as —c—c—c—
12. Approximate toe of fill slopes are shown as —F—F—F—
13. The Contractor shall place top soil and sod on disturbed slopes steeper than 3:1 and shall place top soil and seed on slopes 3:1 or flatter.

EXAMINED FOR		
WATER & SEWERS	CAH	2/2/62
R/W-REQ'D.	[illegible]	2/6/62
OTHER UTILITIES	[illegible]	2/1/62

Checked: [illegible]
Examined: S

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

WASHINGTON SUBURBAN SANITARY COMMISSION
MARCH 21, 1962 — DATE
Robert J. McLeod — CHIEF ENGINEER

0211-DW

	STORM DRAIN	
AUTHOR	MAY 1956	
PROJECT		
PART		
JOB NO.	56 DW 10	

LOCATION PLAN AND GENERAL NOTES

GLEN ECHO-CHEVY CHASE DISTRICT
WILLETT BRANCH STORM DRAIN
B.&O. R.R. TO RIVER ROAD

Contract № 0211-DW

DRAWING NO. 1 OF 14

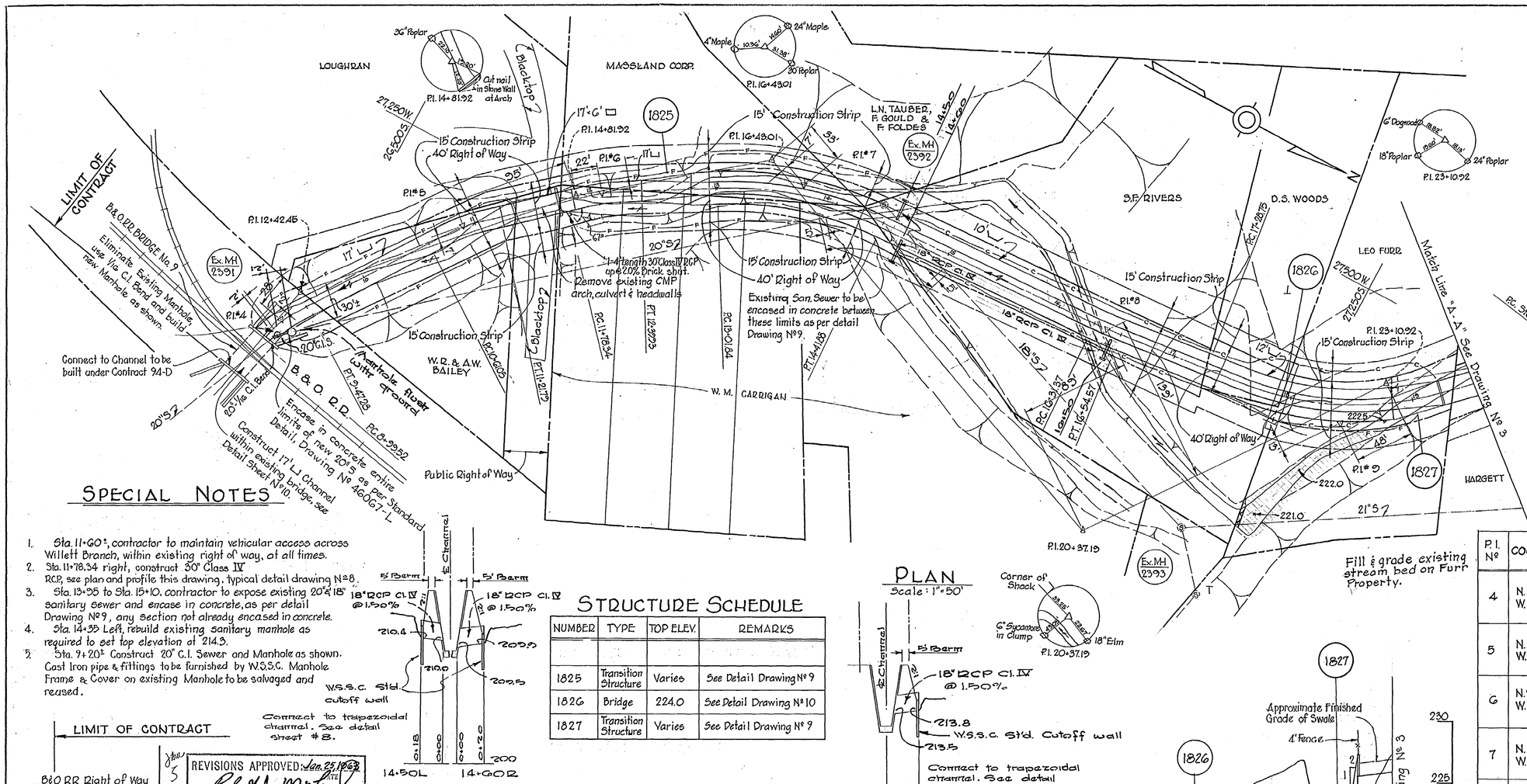
SCALE AS SHOWN

SD FILE NO. 198

CE 487-197-1

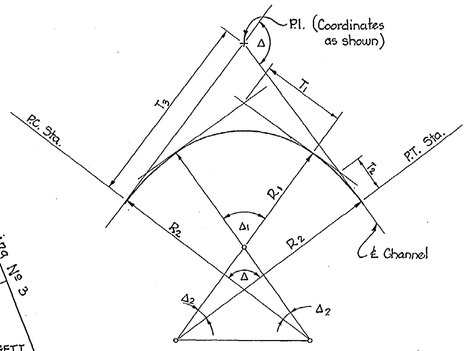
RELEASED 4-6-62

Maryland State Archives



Coordinates For W.R.&A. Traverse

P.I. 12+42.45	N. 26,484.04
N.47°43'22"W. - 239.47'	W. 27,085.52
P.I. 14+81.92	N. 26,645.16
N.38°35'05"W - 161.09'	W. 27,262.72
P.I. 16+43.01	N. 26,771.09
N.21°37'46"E - 394.18'	W. 27,363.20
P.I. 20+37.19	N. 27,138.48
N.54°09'00"W.- 273.73'	W. 27,217.92
P.I. 23+10.92	N. 27,297.81
N.39°03'36"W.- 266.08'	W. 27,439.82
P.I. 25+77.00	N. 27,504.43
	W. 27,607.49



CURVE LAYOUT

P.I. No.	COORDINATES	Δ	T_3	CURVE DATA CENTRAL	CURVE DATA TRANSITION
4	N. 26,460.50 W. 27,058.50	21°-40'-46"	24.15'	Δ_1 = 6°-51'-48" R_1 = 75' T_1 = 4.50' L_1 = 8.98'	Δ_2 = 7°-24'-29" R_2 = 150' T_2 = 9.71' L_2 = 19.39'
5	N. 26,576.75 W. 27,196.75	12°-30'-51"	30.54'	Δ_1 = 7°-35'-25" R_1 = 200' T_1 = 13.27' L_1 = 26.50'	Δ_2 = 2°-27'-43" R_2 = 400' T_2 = 8.60' L_2 = 17.12'
6	N. 26,663.59 W. 27,276.66	12°-54'-50"	30.92'	Δ_1 = 2°-18'-10" R_1 = 150' T_1 = 3.01' L_1 = 6.03'	Δ_2 = 5°-18'-20" R_2 = 300' T_2 = 13.90' L_2 = 27.78'
7	N. 26,806.00 W. 27,358.00	26°-53'-52"	71.17'	Δ_1 = 13°40'-32" R_1 = 200' T_1 = 23.98' L_1 = 47.74'	Δ_2 = 6°-36'-40" R_2 = 400' T_2 = 23.10' L_2 = 46.15'
8	N. 27,077.93 W. 27,371.47	03°-19'-22"	R = 400' T = 11.60' L = 23.20'		
9	N. 27,280.24 W. 27,393.30	38°-33'-18"	117.70'	Δ_1 = 33°-42'-48" R_1 = 300' T_1 = 90.90' L_1 = 176.52'	Δ_2 = 02°-25'-15" R_2 = 600' T_2 = 12.68' L_2 = 25.35'

SPECIAL NOTES

1. Sta. 11+60±, contractor to maintain vehicular access across Willett Branch, within existing right of way, at all times.
2. Sta. 11+78.34 right, construct 30" Class IV RCP, see plan and profile this drawing, typical detail drawing No. 8.
3. Sta. 13+35 to Sta. 15+10, contractor to expose existing 20"& 18" sanitary sewer and encase in concrete, as per detail Drawing No. 9, any section not already encased in concrete.
4. Sta. 14+35 Left, rebuild existing sanitary manhole as required to set top elevation at 214.3.
5. Sta. 7+20± Construct 20" C.I. Sewer and Manhole as shown. Cast Iron pipe & fittings to be furnished by W.S.S.C. Manhole Frame & Cover on existing Manhole to be salvaged and reused.

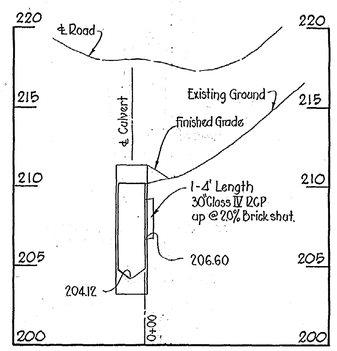
STRUCTURE SCHEDULE

NUMBER	TYPE	TOP ELEV.	REMARKS
1825	Transition Structure	Varies	See Detail Drawing No. 9
182G	Bridge	224.0	See Detail Drawing No. 10
1827	Transition Structure	Varies	See Detail Drawing No. 9

PLAN

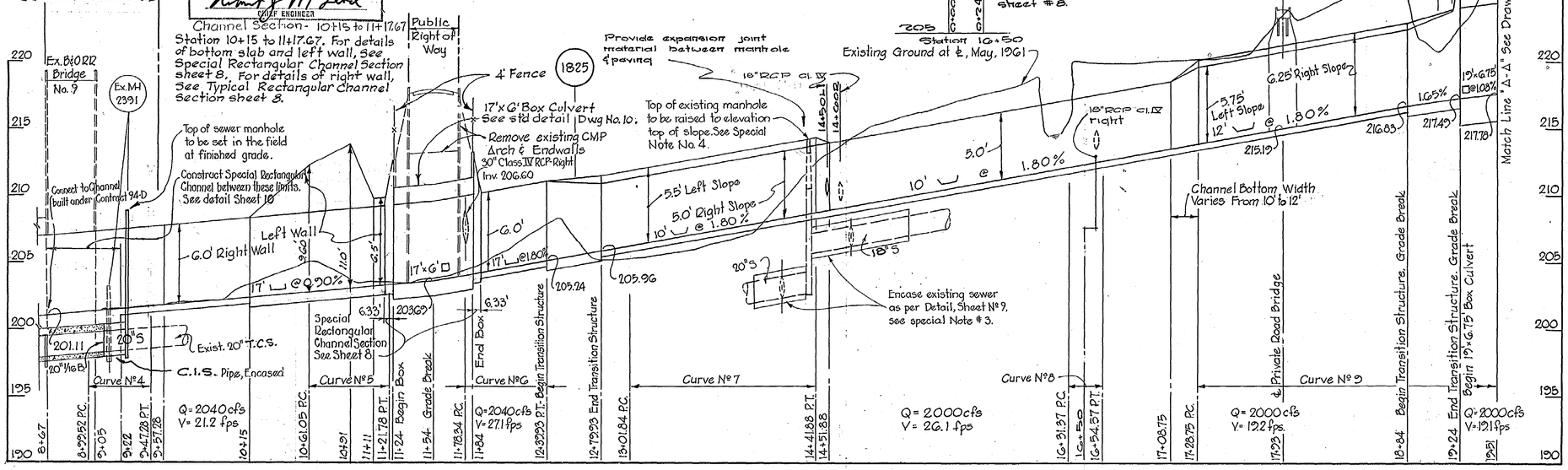
Scale: 1" = 50'

PROFILE 30" D AT STATION 11+78.34 RIGHT



PROFILES

Scale: Hor.-1" = 50' Vert.-1" = 5'



Contract No. 02.11-DW

REVISIONS APPROVED: Jan. 25, 1962 — Robert J. McLeod, CHIEF ENGINEER

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

WASHINGTON SUBURBAN SANITARY COMMISSION
MARCH 21, 1962 — Robert J. McLeod, CHIEF ENGINEER

CONTRACT NO. 0211-DW

STORM DRAIN	
AUTHOR	MAY 1956
PROJECT	
PART	
JOB NO.	56 DW 10

PLAN AND PROFILE

GLEN ECHO DISTRICT
WILLETT BRANCH STORM DRAIN
B.&O. R.R. BRIDGE 9 TO BRIDGE 7

DRAWING NO. 2 OF 14

SCALE AS SHOWN

207 NW 5 / 6 2 0 30 / Y / 14 NW 10-264

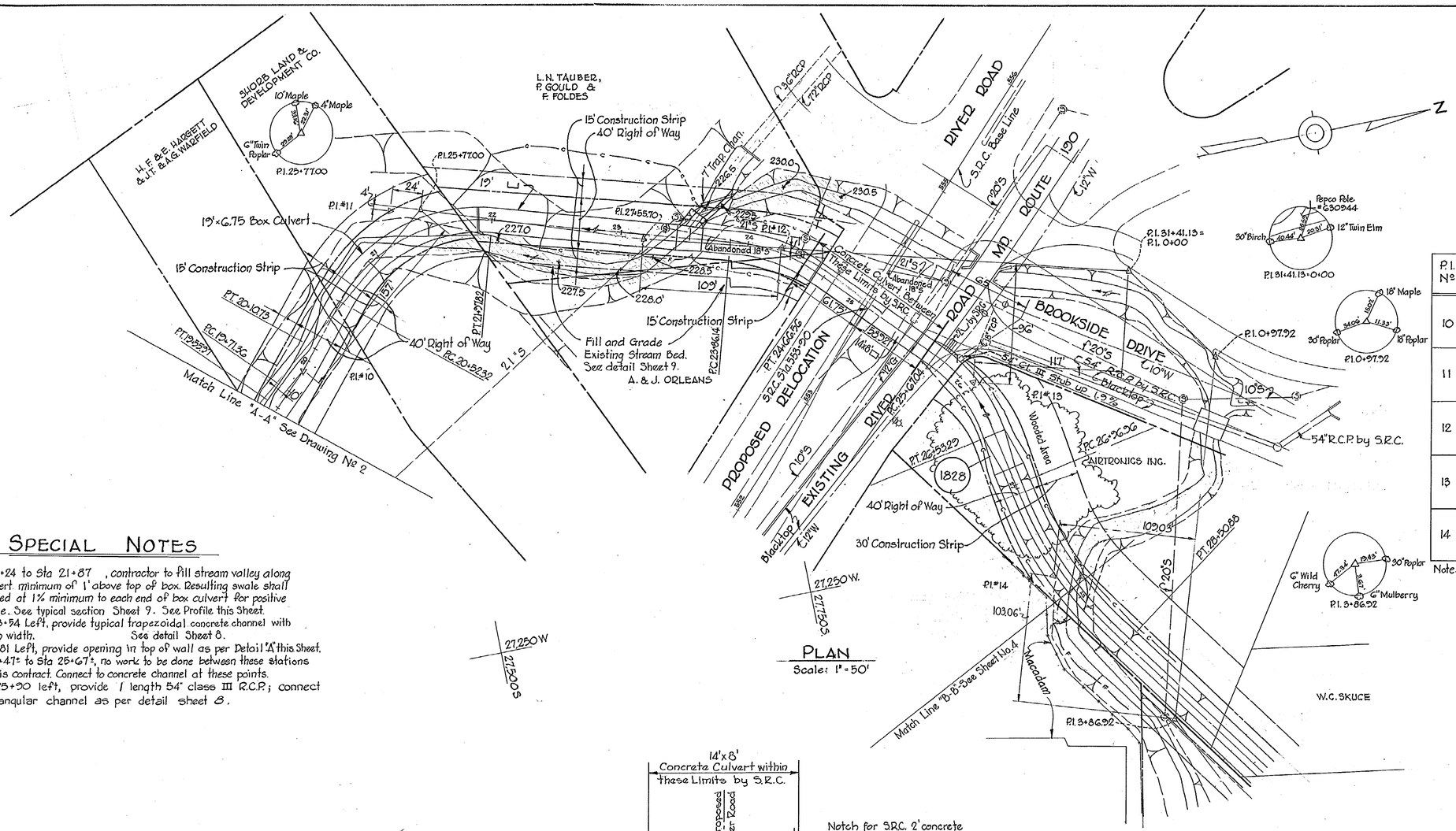
W.O. 4881-2

F.B. # 1847, 1874, 1861, 2662

CE487-197 -2

SD FILE NO. 198

Maryland State Archives



Coordinates For W.R.& Δ Traverse

P.I. 25+77.00	N. 27,504.43
N.18°32'31"E - 178.70'	W. 27,607.49
P.I. 27+55.70	N. 27,673.82
N.14°52'46"E - 385.43'	W. 27,550.68
P.I. 31+41.13=0+00	N. 28,045.69
N.55°56'32"E - 97.92'	W. 27,452.38
P.I. 0+97.92	N. 28,100.53
S.72°24'04"E - 283.00'	W. 27,371.26
P.I. 3+86.92	N. 28,013.15
	W. 27,095.79

P.I. Nº	COORDINATES	Δ	T_3	CURVE DATA CENTRAL	CURVE DATA TRANSITION
10	N.27,388.82 W.27,500.80	5°-38'-23"		R = 400' T = 19.70' L = 39.37'	
11	N.27,480.41 W.27,611.33	66°-41'-38"		R = 125' T = 82.26' L = 145.50'	
12	N.27,779.43 W.27,523.66	29°-51'-26"	41.03'	Δ_1 = 22°51'-10" R_1 = 125' T_1 = 25.26' L_1 = 47.86'	Δ_2 = 03°30'-08" R_2 = 250' T_2 = 7.64' L_2 = 15.28'
13	N.27,907.96 W.27,389.64	32°-31'-46"	44.81'	Δ_1 = 25°31'-30" R_1 = 125' T_1 = 28.31' L_1 = 55.69'	Δ_2 = 03°30'-08" R_2 = 250' T_2 = 7.64' L_2 = 15.28'
14	N.27,940.38 W.26,849.41	24°-22'-08"	78.00'	Δ_1 = 19°20'22" R_1 = 300' T_1 = 51.12' L_1 = 101.26	Δ_2 = 02°30'-53" R_2 = 600' T_2 = 13.17' L_2 = 26.33'

Note: For curve layout see diagram Drawing Nº 2

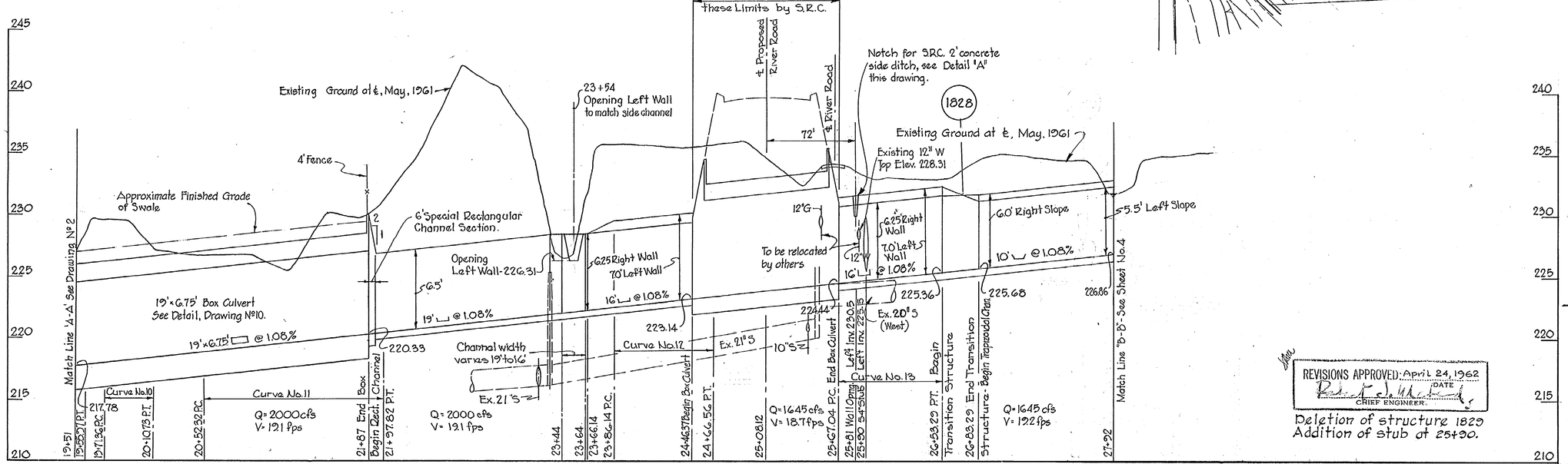
SPECIAL NOTES

1. Sta. 19+24 to Sta 21+87, contractor to fill stream valley along box culvert minimum of 1' above top of box. Resulting swale shall be graded at 1% minimum to each end of box culvert for positive drainage. See typical section Sheet 9. See Profile this Sheet.
2. Sta. 23+54 Left, provide typical trapezoidal concrete channel with 7' bottom width. See detail Sheet 8.
3. Sta. 25+81 Left, provide opening in top of wall as per Detail "A" this Sheet.
4. Sta. 24+47± to Sta 25+67±, no work to be done between these stations under this contract. Connect to concrete channel at these points.
5. Sta. 25+90 left, provide 1 length 54" class III R.C.P.; connect to rectangular channel as per detail sheet 8.

PLAN
Scale: 1" = 50'

STRUCTURE SCHEDULE

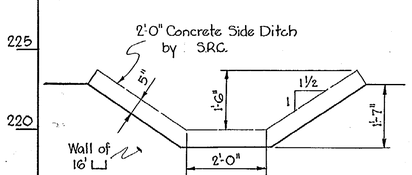
NUMBER	TYPE	TOPELEV.	REMARKS
1828	Transition Structure	Varies	See Detail Drawing Nº 9



REVISIONS	
DATE	DESCRIPTION
4/18/62	DELETION OF 1829 & ADDITION OF 54" STUB.

REVISIONS APPROVED: April 24, 1962 DATE
Robert J. McLeod CHIEF ENGINEER

Deletion of structure 1829
Addition of stub at 25+90.



DETAIL "A"
Scale: 1/2" = 1'-0"

Contract No. 0211-DW

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

WASHINGTON SUBURBAN SANITARY COMMISSION
MARCH 21, 1962 DATE — Robert J. McLeod CHIEF ENGINEER

CONTRACT NO. 0211-DW

	STORM DRAIN
AUTHOR	MAY 1956
PROJECT	
PART	
JOB NO.	56 DW 10

PLAN AND PROFILE

GLEN ECHO DISTRICT
WILLETT BRANCH STORM DRAIN
B.&O. R.R. BRIDGE 9 TO BRIDGE 7

DRAWING NO. 3 OF 14

SCALE AS SHOWN

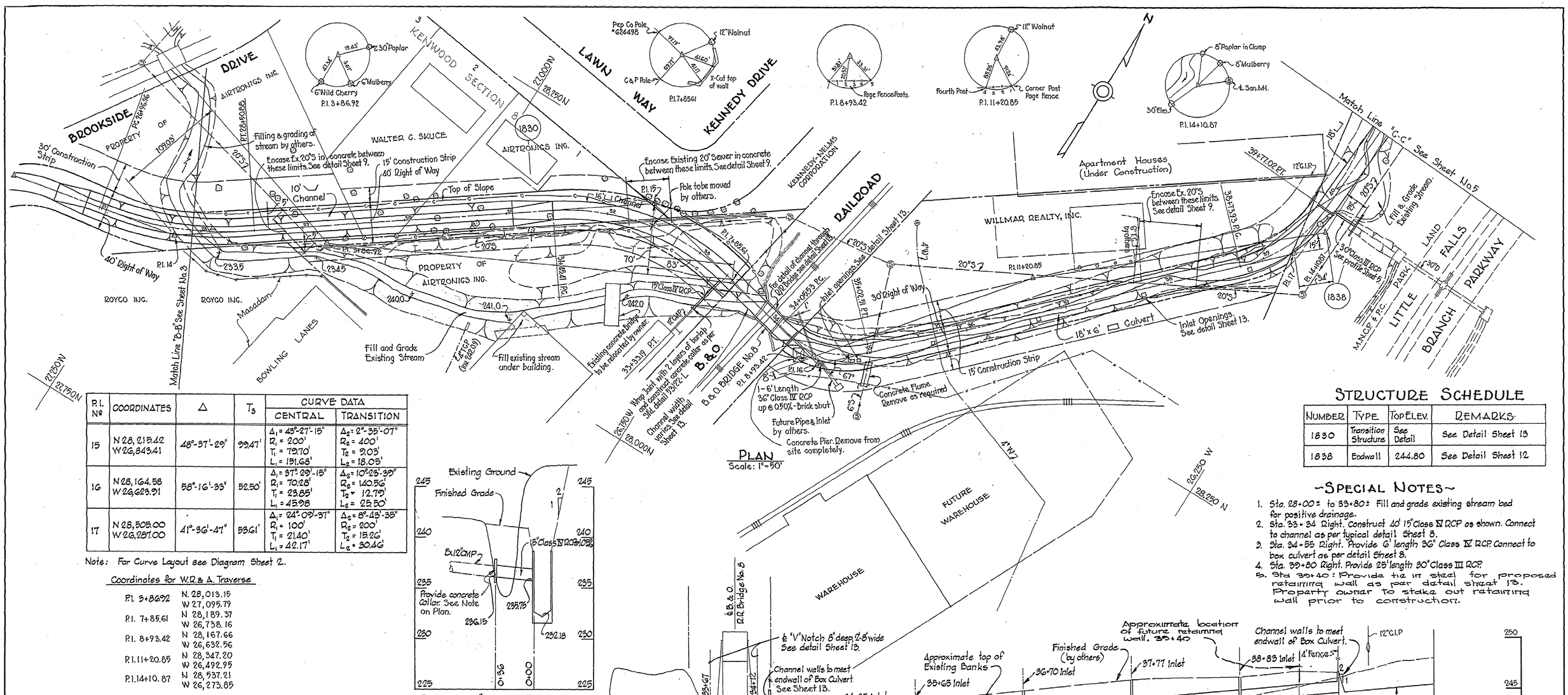
207 NW5 / G2031 / Y / 14NW10-2, 13NW3-5 W 10-2

W.O. 4881-2

F.B.# 1847, 1874, 1861, 2662

CE487-197-3

SD FILE NO. 198



P.I. №	COORDINATES	Δ	T_s	CURVE DATA CENTRAL	CURVE DATA TRANSITION
15	N 28,215.42 W 26,843.41	48°-37'-29"	99.47'	Δ_1 = 43°-27'-15" R_1 = 200' T_1 = 79.70' L_1 = 151.68'	Δ_2 = 2°-35'-07" R_2 = 400' T_2 = 9.03' L_2 = 18.05'
16	N 28,164.58 W 26,623.91	58°-16'-33"	52.50'	Δ_1 = 37°-29'-15" R_1 = 70.28' T_1 = 23.85' L_1 = 45.98	Δ_2 = 10°-23'-39" R_2 = 140.56' T_2 = 12.79' L_2 = 25.50'
17	N 28,505.00 W 26,287.00	41°-36'-47"	53.61'	Δ_1 = 24°-09'-37" R_1 = 100' T_1 = 21.40' L_1 = 42.17'	Δ_2 = 8°-43'-35" R_2 = 200' T_2 = 15.26' L_2 = 30.46'

Note: For Curve Layout see Diagram Sheet 2.

Coordinates for W.R. & A. Traverse

P.I. 3+86.92	N. 28,013.15 W 27,095.79
P.I. 7+85.61	N 28,189.37 W 26,738.16
P.I. 8+93.42	N 28,167.66 W 26,632.56
P.I. 11+20.85	N 28,347.20 W 26,492.95
P.I. 14+10.87	N 28,537.21 W 26,273.85

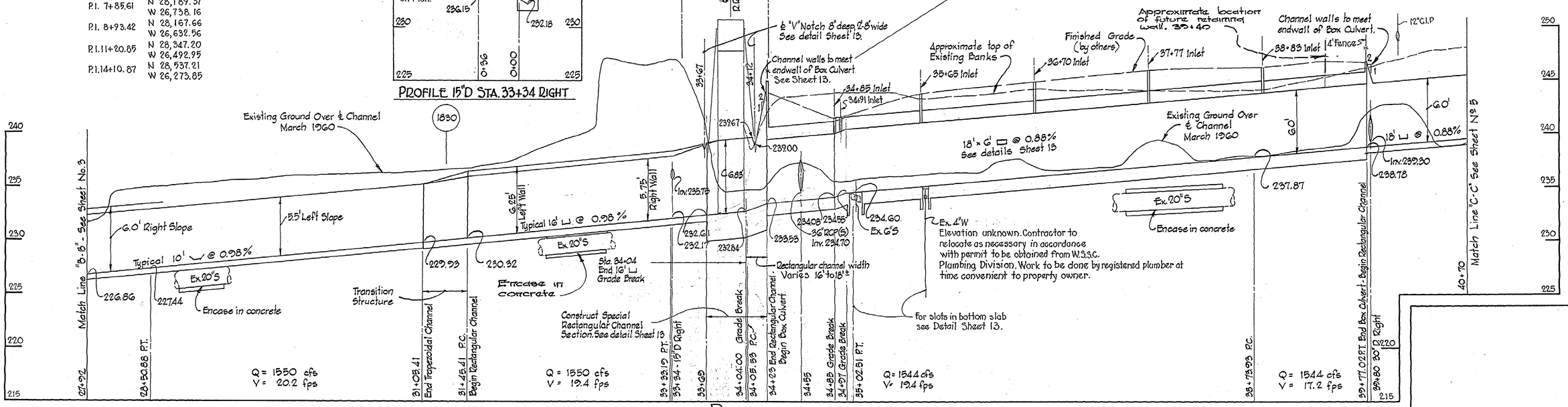
STRUCTURE SCHEDULE

NUMBER	TYPE	TOP ELEV.	REMARKS
1830	Transition Structure	See Detail	See Detail Sheet 13
1838	Endwall	244.80	See Detail Sheet 12

~SPECIAL NOTES~

1. Sta. 28+00± to 33+80± Fill and grade existing stream bed for positive drainage.
2. Sta. 33+34 Right. Construct 40' 15" Class IV RCP as shown. Connect to channel as per typical detail Sheet 8.
3. Sta. 34+55 Right. Provide 6' length 36" Class IV RCP. Connect to box culvert as per detail Sheet 8.
4. Sta. 39+80 Right. Provide 25' length 30" Class III RCP.
5. Sta 39+40: Provide tie in steel for proposed retaining wall as per detail sheet 13. Property owner to stake out retaining wall prior to construction.

PROFILE 15"D STA. 33+34 RIGHT



PROFILE
Scale: H: 1" = 50' V: 1" = 5'

Contract № 0211 - DW

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	WASHINGTON SUBURBAN SANITARY COMMISSION MARCH 21, 1962 DATE — CHIEF ENGINEER	CONTRACT NO. 0211-DW	STORM DRAIN MAY 1956 — AUTHOR; PROJECT; PART; JOB NO. 56 DW 10	PLAN AND PLOT	GLEN ECHO DISTRICT WILLETT BRANCH STORM DRAIN B&O. R.R. BRIDGE 9 TO BRIDGE 7

DRAWING NO. 4 OF 14 — SCALE AS SHOWN — G2032 Y — 14 NW 10-4, 15 NW 8-3

W.O. 4881-2

CE487-197-4

SD FILE NO. 198

#1861

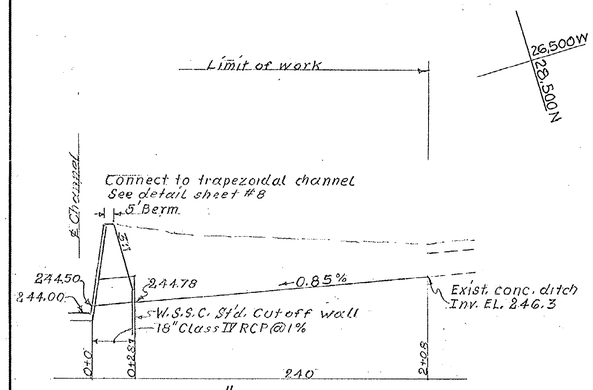
Maryland State Archives

Coordinates for W R & A Traverse

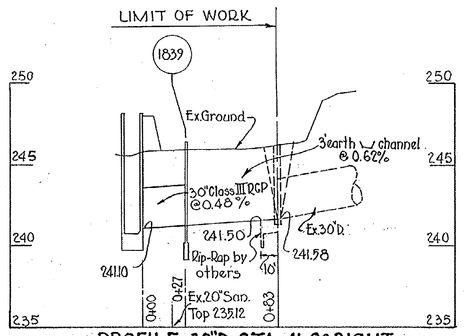
P.I. 16+13.02	N	28,739.36
	W	26,275.16
P.I. 19+28.65	N	29,054.98
	W	26,277.21
P.I. 20+83.23	N	29,206.07
	W	26,244.54

STRUCTURE SCHEDULE

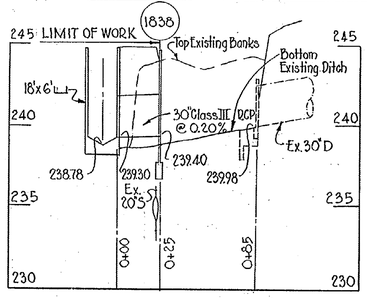
NUMBER	TYPE	TOP ELEV.	REMARKS
1836	Transition Structure	Varies	See Detail Sheet No.11
1837	Transition Structure	Varies	See Detail Sheet No.11
1839	Headwall	246.3	See Detail Sheet No.12



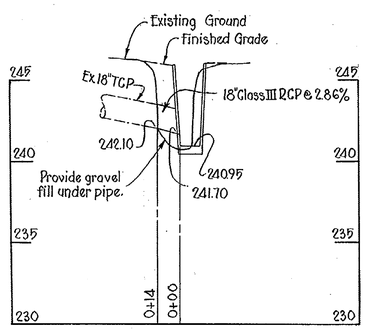
PROFILE 18"D STA. 46+45 LEFT.



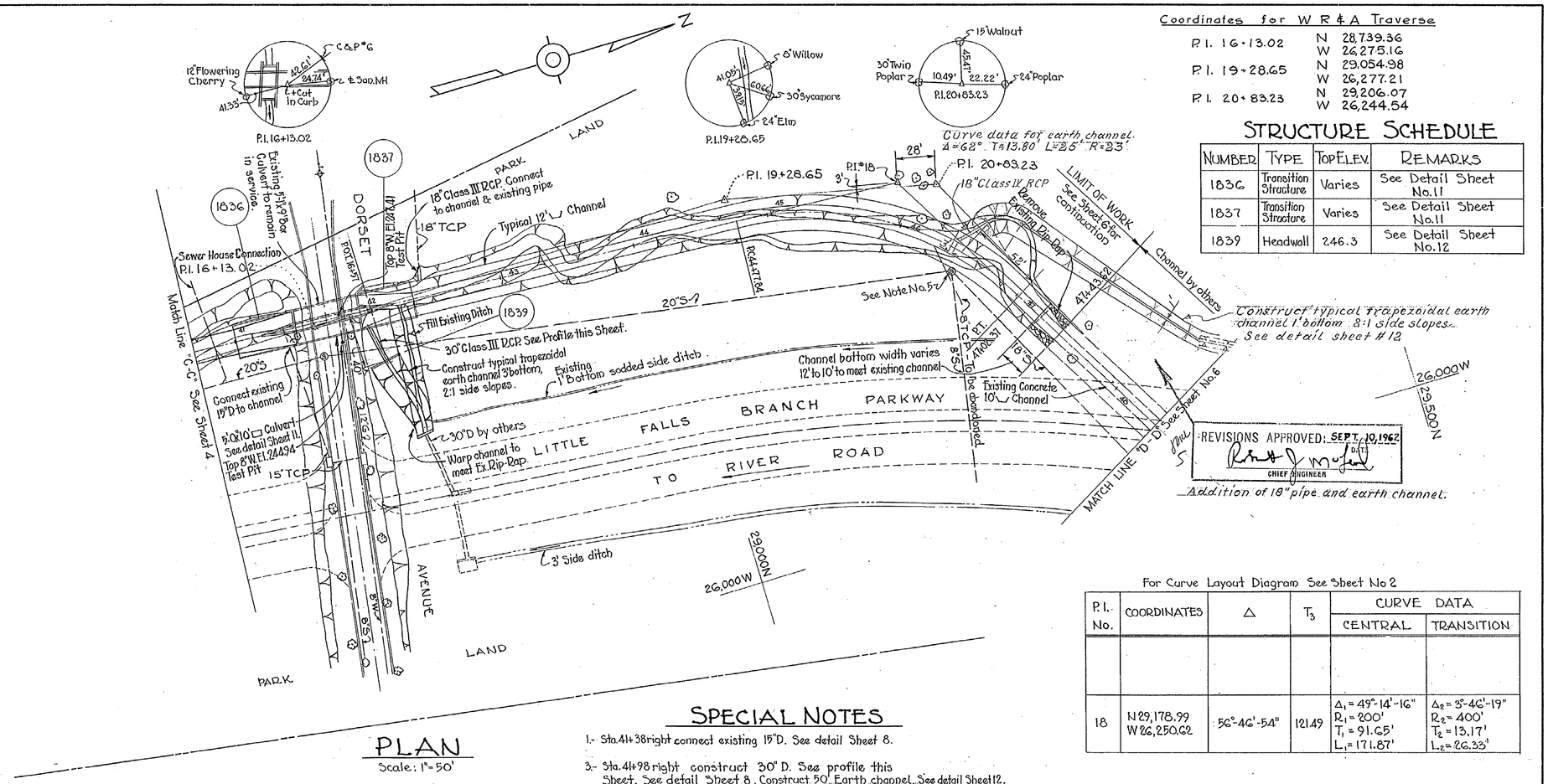
PROFILE 30"D STA. 41+98 RIGHT



PROFILE 30"D STA. 39+80 RIGHT



PROFILE 18"D STA. 42+41 LEFT



PLAN

Scale: 1" = 50'

For Curve Layout Diagram See Sheet No 2

P.I. No.	COORDINATES	Δ	T_3	CURVE DATA CENTRAL	CURVE DATA TRANSITION
18	N 29,178.99 W 26,250.62	56°-46'-54"	121.49	Δ_1 = 49°-14'-16" R_1 = 800' T_1 = 91.65' L_1 = 171.87'	Δ_2 = 3°-46'-19" R_2 = 400' T_2 = 13.17' L_2 = 26.33'

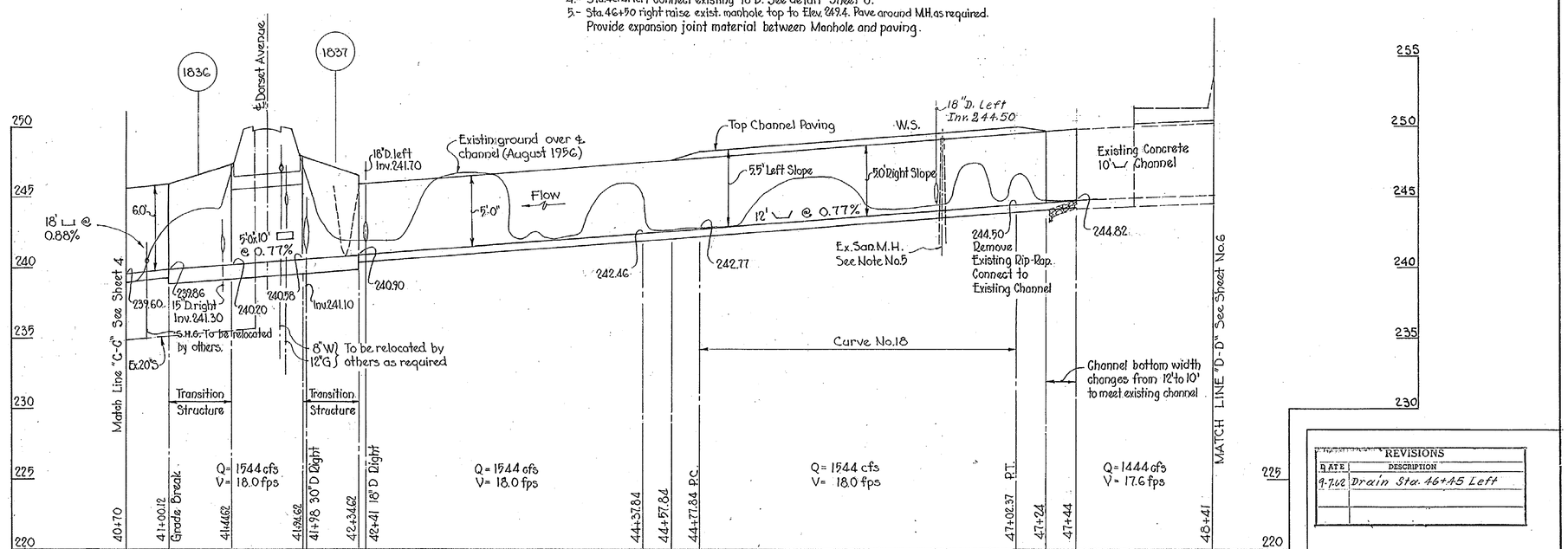
SPECIAL NOTES

1.- Sta. 41+38 right connect existing 15" D. See detail Sheet 8.

3.- Sta. 41+98 right construct 30" D. See profile this Sheet. See detail Sheet 8. Construct 50' Earth channel. See detail Sheet 12.

4.- Sta. 42+41 left connect existing 18" D. See detail Sheet 8.

5.- Sta. 46+50 right raise exist. manhole top to Elev. 249.4. Pave around M.H. as required. Provide expansion joint material between Manhole and paving.



PROFILE

Scale: Hor. 1" = 50' Vert. 1" = 5'

REVISIONS	
DATE	DESCRIPTION
9-7-62	Drain Sta. 46+45 Left

Contract No. 0211-DW.

WHITMAN, REQUARDT & ASSOCIATES
ENGINEERS
1304 ST. PAUL ST.
BALTIMORE, MARYLAND

WASHINGTON SUBURBAN SANITARY COMMISSION
MARCH 21, 1962 — DATE
CHIEF ENGINEER

CONTRACT NO. 0211-DW

	STORM DRAIN
AUTHOR	MAY 1956
PROJECT	
PART	
JOB NO.	56 DW 10

PLAN AND PROFILE

CHEVY CHASE DISTRICT
WILLETT BRANCH STORM DRAIN
B.&O. R.R. BRIDGE 9 TO BRIDGE 7

DRAWING NO. 5 OF 14

SCALE AS SHOWN

207NW5
62033
Y

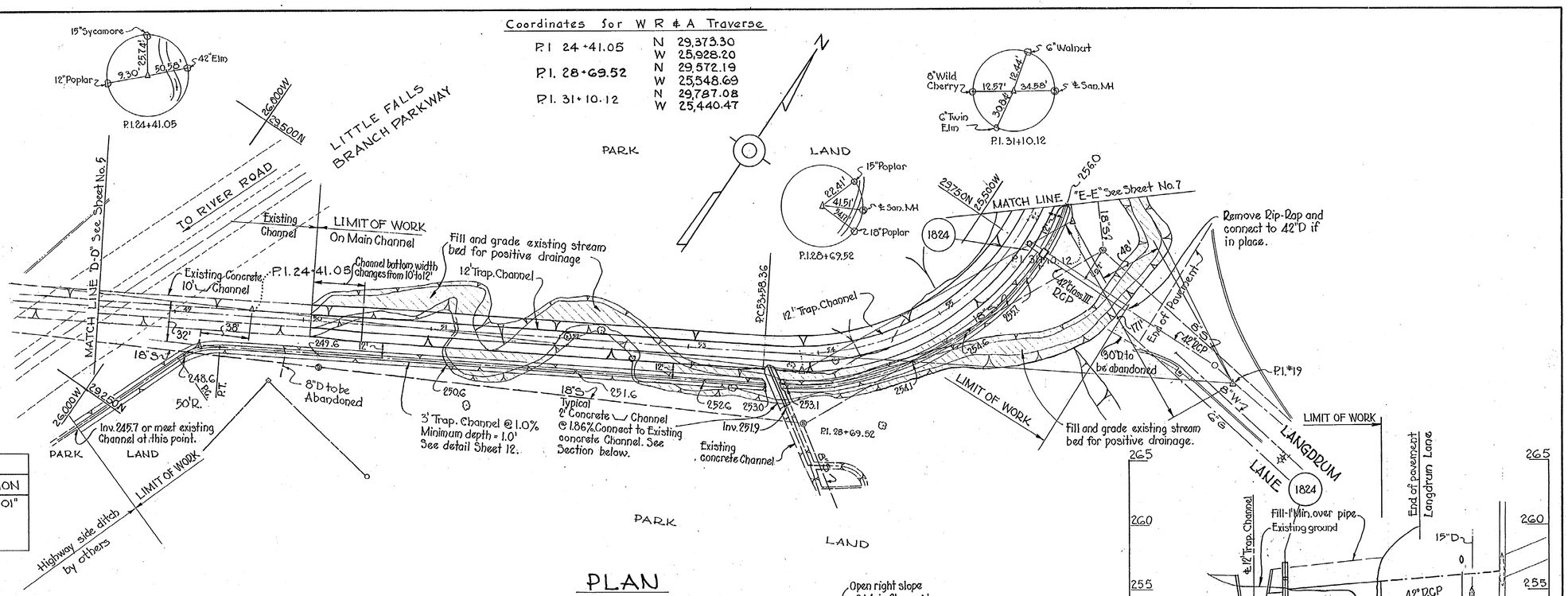
SD FILE NO. 198

W.O. 4881-2

CE-487-197-5

Maryland State Archives

Coordinates for W R & A Traverse		
P.I 24+41.05	N	29,373.30
	W	25,928.20
P.I. 28+69.52	N	29,572.19
	W	25,548.69
P.I. 31+10.12	N	29,787.08
	W	25,440.47



For Curve Layout Diagram See Sheet No. 2

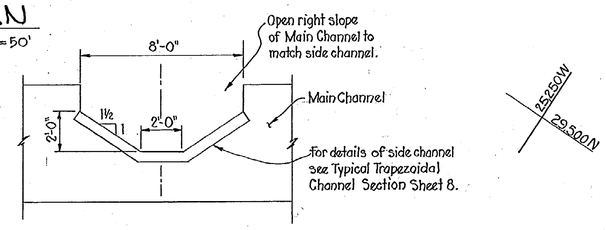
P.I. No.	COORDINATES	Δ	T_3	CURVE DATA CENTRAL	CURVE DATA TRANSITION
19	N 29,751 W 25,265	120°-10'-25"	361.06	Δ_1 = 112°52'-23" R_1 = 200' T_1 = 301.44' L_1 = 394.00'	Δ_2 = 3°-39'-01" R_2 = 400' T_2 = 12.75' L = 25.48'

PLAN

Scale: 1" = 50'

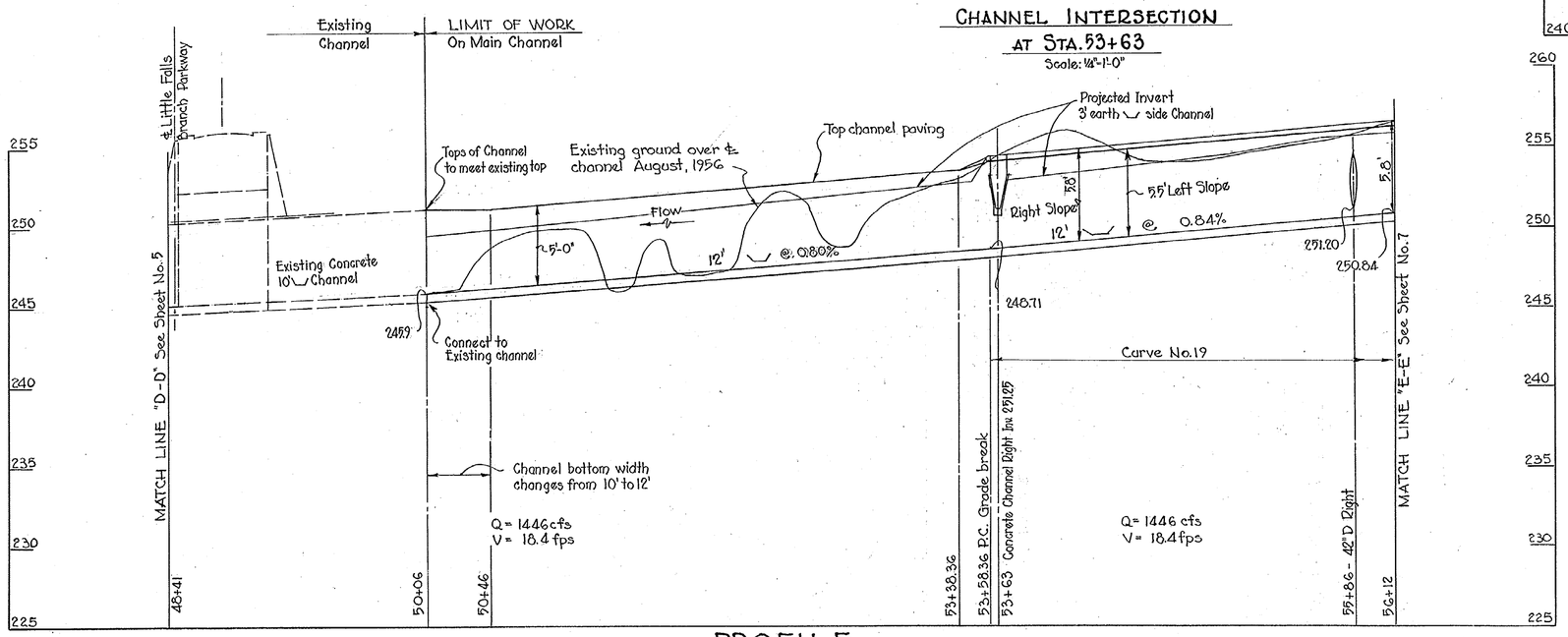
SPECIAL NOTES

1.- Sta. 53+63 Right construct 3' trapezoidal concrete channel. Connect to existing channel.
2.- Sta. 55+86 right construct 42" Drain. See profile this Sheet. See detail Sheet No. 8
3.- Sta. 48+25 to Sta. 56+20 right construct typical 3' earth trapezoidal channel. See detail sheet 12.



CHANNEL INTERSECTION AT STA. 53+63

Scale: ½" = 1'-0"



PROFILE

Scale: Hor. 1" = 50' Vert. 1" = 5'

PROFILE 42" D

Scale: Hor. 1" = 50" Vert. 1" = 5"

STRUCTURE SCHEDULE

NUMBER	TYPE	TOP ELEV.	REMARKS
1824	Entrance Structure	257.00	W.S.S.C. Standard detail 60744-L

Note: Open north wall of structure 1824 as per Standard "D" Inlet. Flap gate to be constructed at east side of Structure.

Contract No. 0211-DW

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	WASHINGTON SUBURBAN SANITARY COMMISSION MARCH 21, 1962 DATE — CHIEF ENGINEER	CONTRACT NO. 0211-DW	AUTHOR: STORM DRAIN MAY 1956; PROJECT; PART; JOB NO. 56DW10	PLAN AND PROFILE	CHEVY CHASE DISTRICT WILLETT BRANCH STORM DRAIN B.&O. R.R. BRIDGE 9 TO BRIDGE 7	DRAWING NO. 6 OF 14	SCALE AS SHOWN	62034 Y

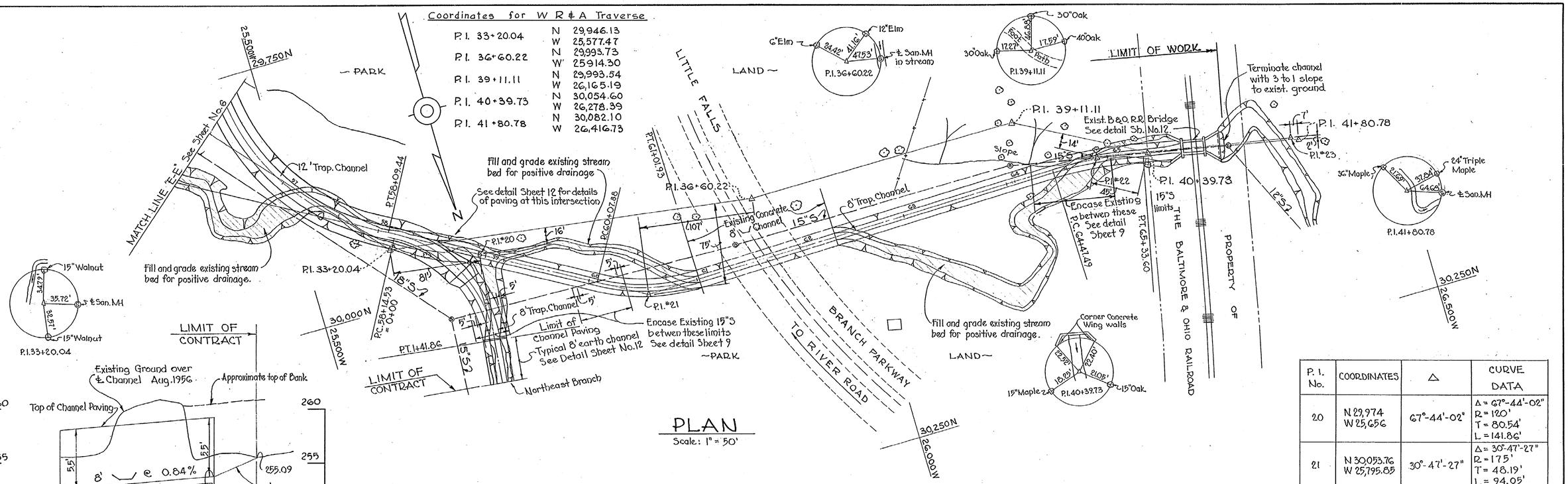
W.O. 4881-2

CE-487-197-6

SD FILE NO. 198

Coordinates for W R & A Traverse

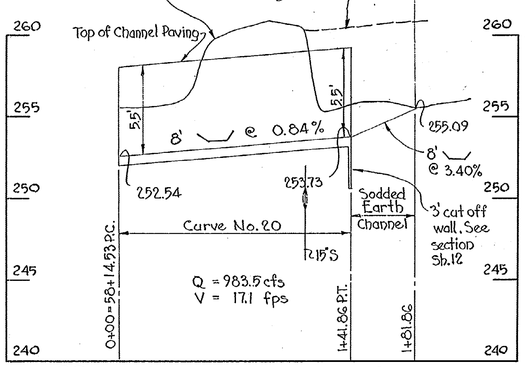
P.I. 33+20.04	N	29,946.13
	W	25,577.47
P.I. 36+60.22	N	29,993.73
	W	25,914.30
P.I. 39+11.11	N	29,993.54
	W	26,165.19
P.I. 40+39.73	N	30,054.60
	W	26,278.39
P.I. 41+80.78	N	30,082.10
	W	26,416.73



PLAN

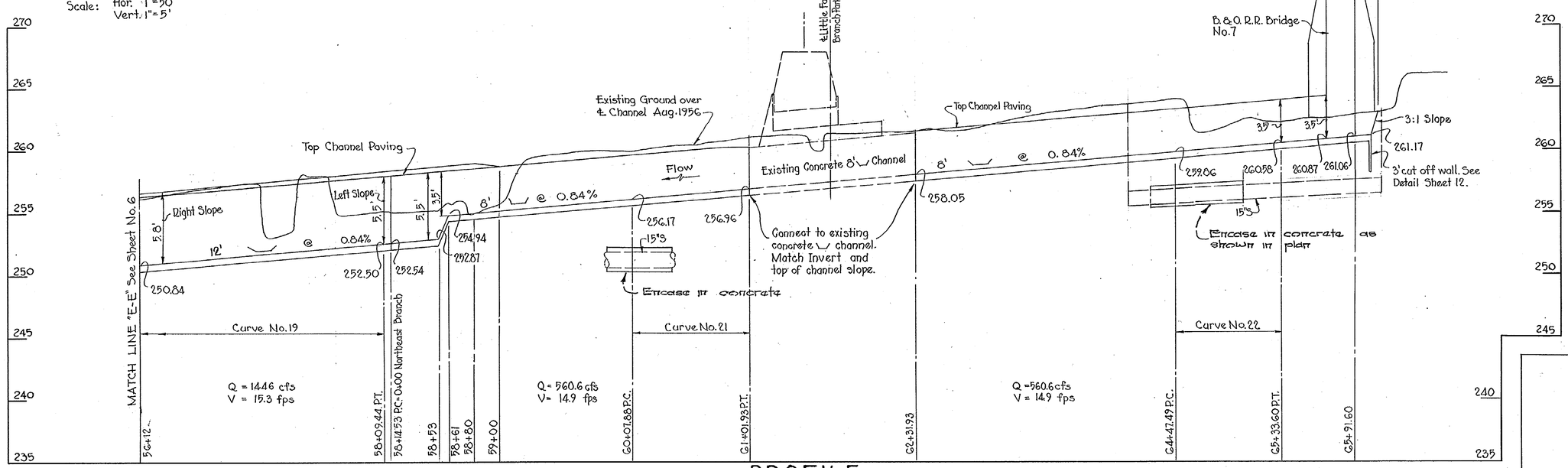
Scale: 1" = 50'

P. I. No.	COORDINATES	Δ	CURVE DATA
20	N 29,974 W 25,656	67°-44'-02"	Δ = 67°-44'-02" R = 120' T = 80.54' L = 141.86'
21	N 30,053.76 W 25,795.85	30°-47'-27"	Δ = 30°-47'-27" R = 175' T = 48.19' L = 94.05'
22	N 30,045.43 W 26,232.74	12°-20'-05"	Δ = 12°-20'-05" R = 400' T = 43.22 L = 86.11
23	N 30,080.76 W 26,520.00	———	———



PROFILE NORTHEAST BRANCH

Scale: Hor. 1" = 50'
Vert. 1" = 5'



PROFILE

Scale: Hor. 1" = 50'
Vert. 1" = 5'

Contract No. 0211-DW

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	WASHINGTON SUBURBAN SANITARY COMMISSION MARCH 21, 1962 (DATE) — Robert J. McFarland (CHIEF ENGINEER)	CONTRACT NO. 0211-DW	STORM DRAIN AUTHOR: MAY 1956 PROJECT PART JOB NO. 56 DW10	PLAN AND PROFILE	CHEVY CHASE DISTRICT WILLETT BRANCH STORM DRAIN B.&O. R.R. BRIDGE 9 TO BRIDGE 7	DRAWING NO. 7 OF 14	SCALE AS SHOWN	62035 Y

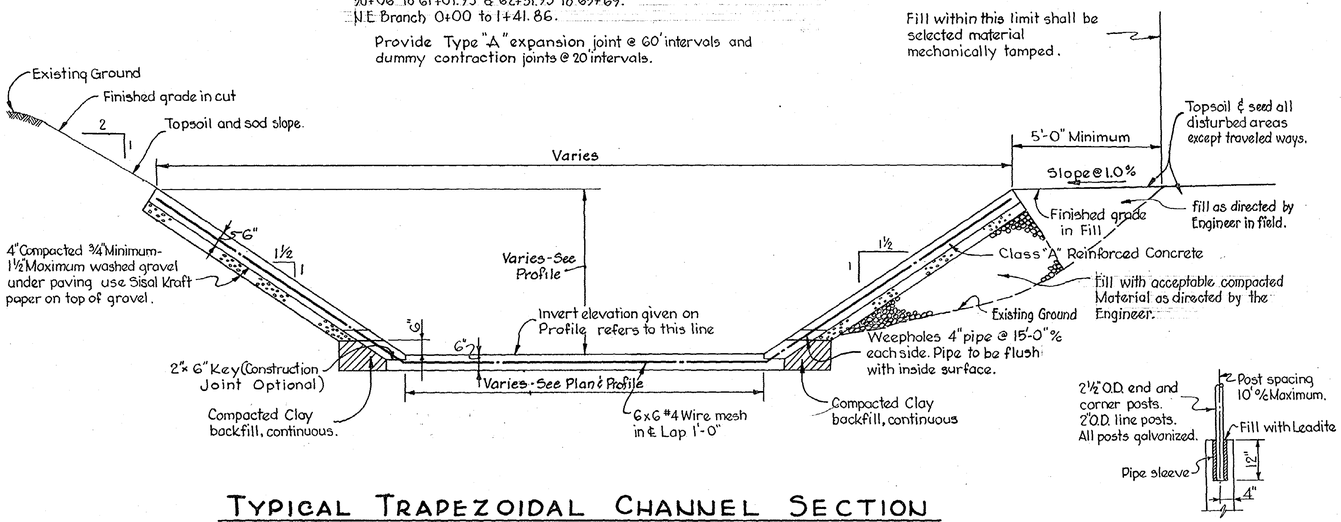
W.O. 4881-2

CE 487-197 -7

SD FILE NO. 198

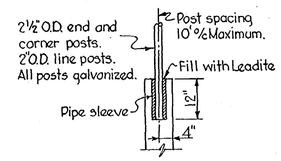
Construct typical trapezoidal channel between following Stations:
12+79.93 to 18+84, 26+83.29 to 31+05.41, 42+34.62 to 47+44, 50+06 to 61+01.93 & 62+31.93 to 65+69.
N.E. Branch 0+00 to 1+41.86.

Provide Type "A" expansion joint @ 60' intervals and dummy contraction joints @ 20' intervals.



TYPICAL TRAPEZOIDAL CHANNEL SECTION

Scale: ⅜"=1'-0"



DETAIL "A"

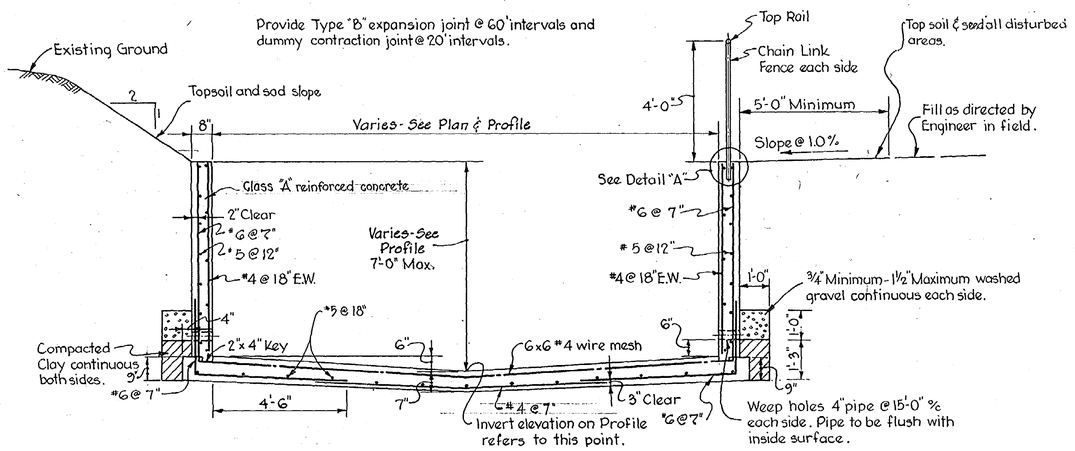
Scale: ½"=1'-0"

Sta. 8+67 to Sta. 9+22 thru B&O Railroad Bridge #9, See Sheet #10

Construct Typical Rectangular Channel between the following stations:
9+22 to 10+15
11+90.8 to 12+39.93
21+93 to 24+46.37
25+67.04 to 26+53.29
31+45.41 to 33+69
39+77.02 to 41+00.12
10+15 to 11+17.67 - right wall only.

For details at B&O Railroad Bridge #8 See Dwg. #13, Sta. 33+69 to Sta. 34+23

Provide Type "B" expansion joint @ 60' intervals and dummy contraction joint @ 20' intervals.

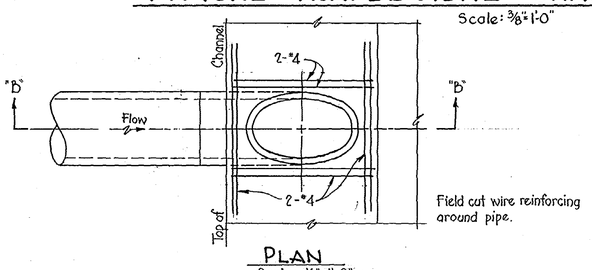


TYPICAL RECTANGULAR CHANNEL SECTION

Scale: ⅜"=1'-0"

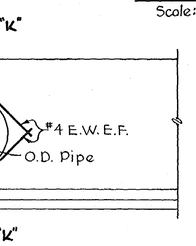
REVISIONS APPROVED: Jan. 25, 1963
CHIEF ENGINEER

Channel Section - 10+15 to 11+17.67

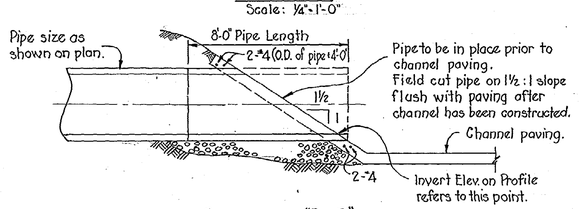


PLAN

Scale: ¼"=1'-0"



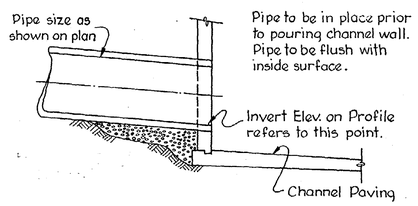
ELEVATION



SECTION "B-B"

Scale: ¼"=1'-0"

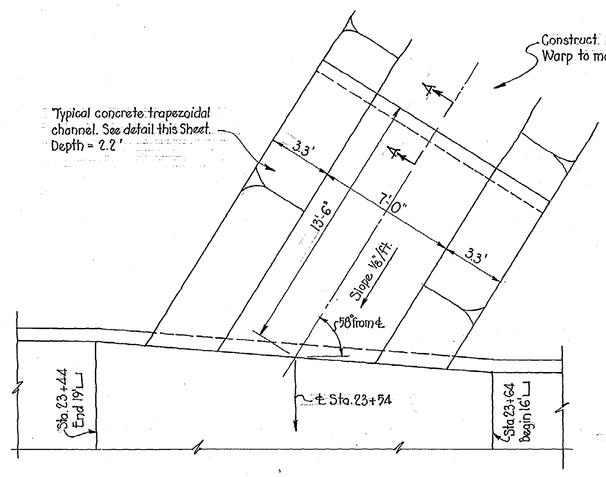
TYPICAL PIPE CONNECTION TO TRAPEZOIDAL CHANNEL



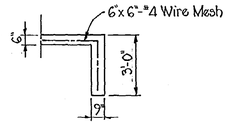
SECTION "K-K"

TYPICAL PIPE CONNECTION TO RECTANGULAR CHANNEL OR BOX CULVERT

Scale: ¼"=1'-0"



PLAN

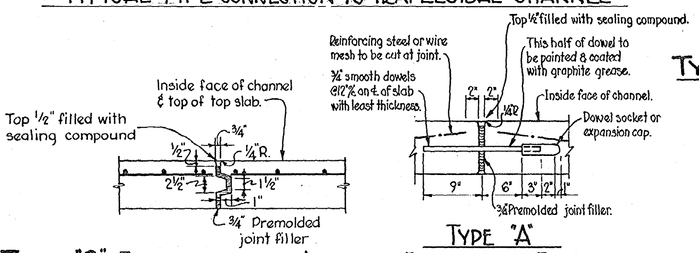


SECTION "A-A"

For connection to main channel wall see Detail "A" Sheet 3.

CONCRETE SIDE CHANNEL AT STA. 23+54

Scale: ¼"=1'-0"

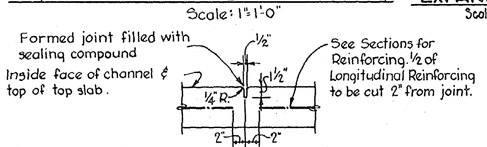


TYPE "B" EXPANSION JOINT

Scale: 1"=1'-0"

TYPE "A" EXPANSION JOINT

Scale: 1"=1'-0"

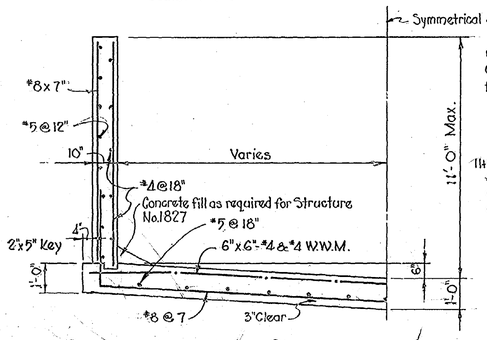


TYPICAL DUMMY CONTRACTION JOINT

Scale: 1"=1'-0"

GENERAL STRUCTURAL NOTES

1. All concrete for paving and structures shall be Class "A" - 3500 p.s.i.
2. All concrete for cradle and fill shall be Class "C" - 2000 p.s.i.
3. All exposed edges of concrete shall have a 1" - 45° chamfer.
4. Minimum concrete protection on reinforcing steel shall be 2" unless otherwise noted.
5. Expansion joints shall be as noted on section.
6. Where joints are specified they shall be provided across the full cross section.
7. Unformed exposed concrete surfaces shall have float finish.
8. Sisal Kraft paper shall be placed on ground or gravel bases prior to placing concrete paving and structures.



Construct Special Rectangular Channel Section between following Stations:
39+77.02 to 39+81.02
21+87 to 21+93
19+18 to 19+24
11+17.67 to 11+24 & 11+84 to 11+90.3
All construction details same as Typical Rectangular Section except as shown.
10+15 to 11+17.67 - left wall & bottom slab only.

SPECIAL RECTANGULAR CHANNEL SECTION

Scale: ⅜"=1'-0"

Contract Nº 0211-DW

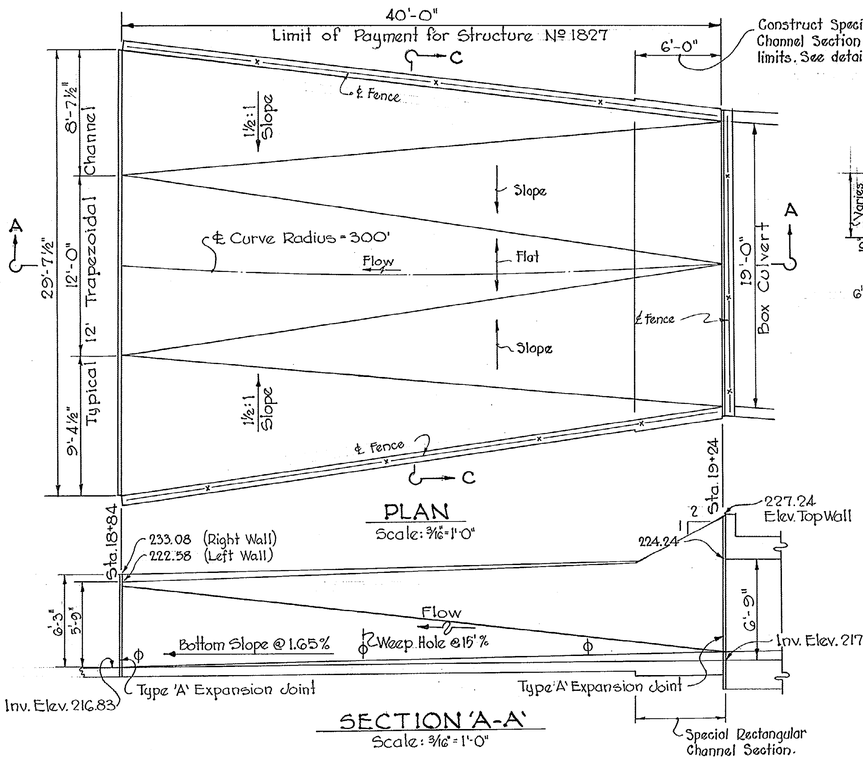
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	WASHINGTON SUBURBAN SANITARY COMMISSION MARCH 21, 1962 DATE — CHIEF ENGINEER	CONTRACT NO. 0211-DW	STORM DRAIN: AUTHOR MAY 1956; PROJECT; PART; JOB NO 56 DW 10	DETAILS	GLEN ECHO-CHEVY CHASE DISTRICT WILLETT BRANCH STORM DRAIN B.&O. R.R. BRIDGE 9 TO BRIDGE 7	DRAWING NO. 8 OF 14 — SCALE AS SHOWN — 62036 Y

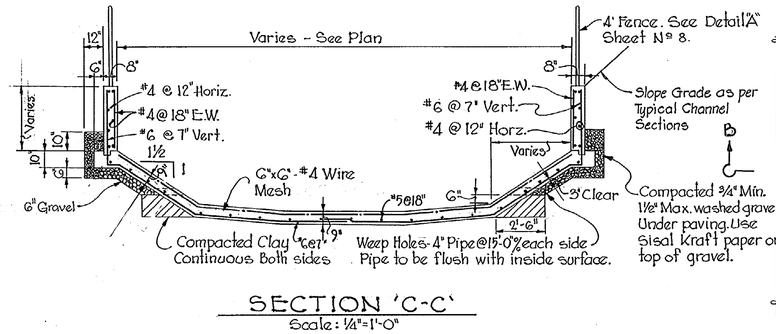
W.O. 4881-2

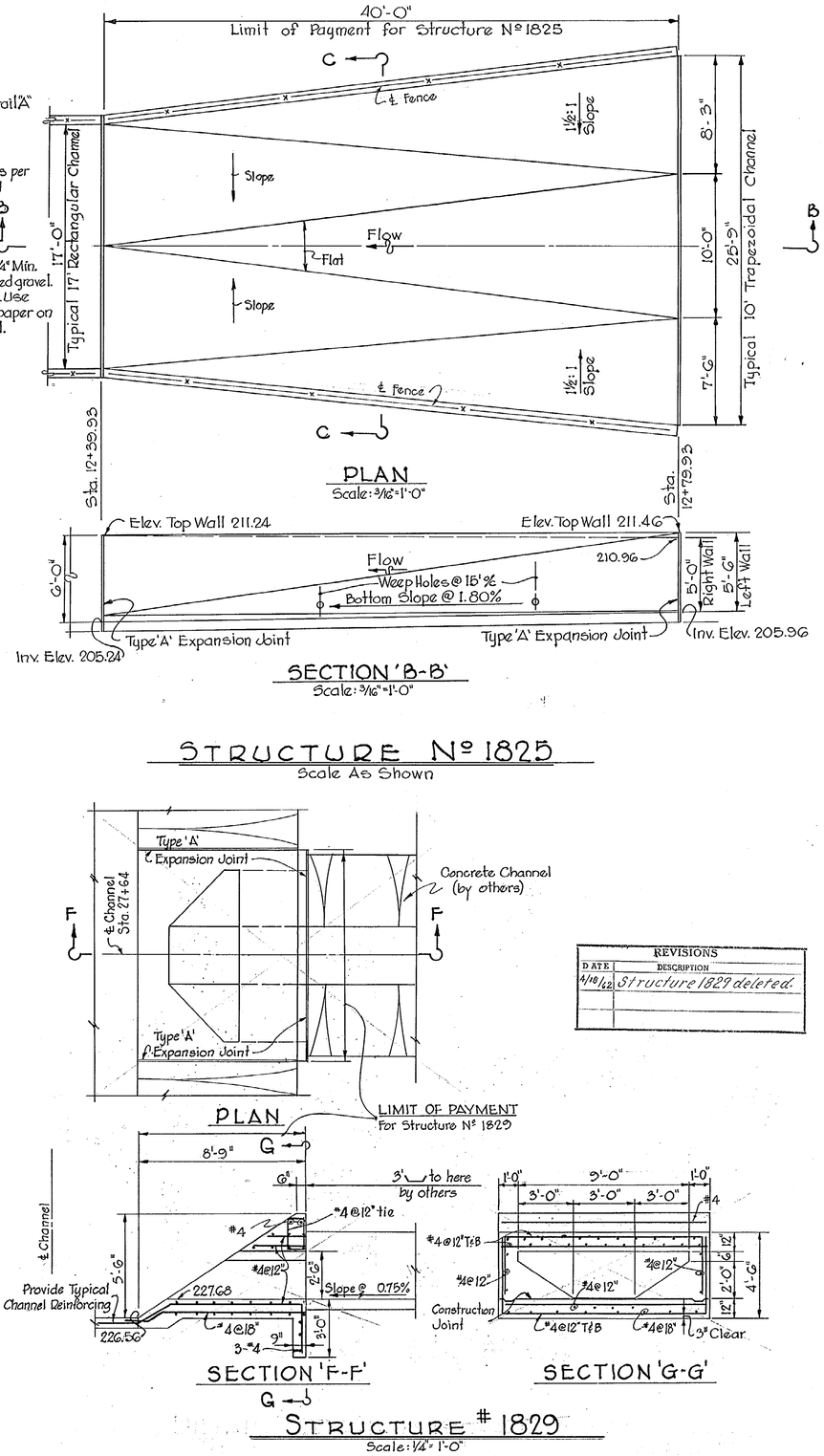
CE487-197 -8

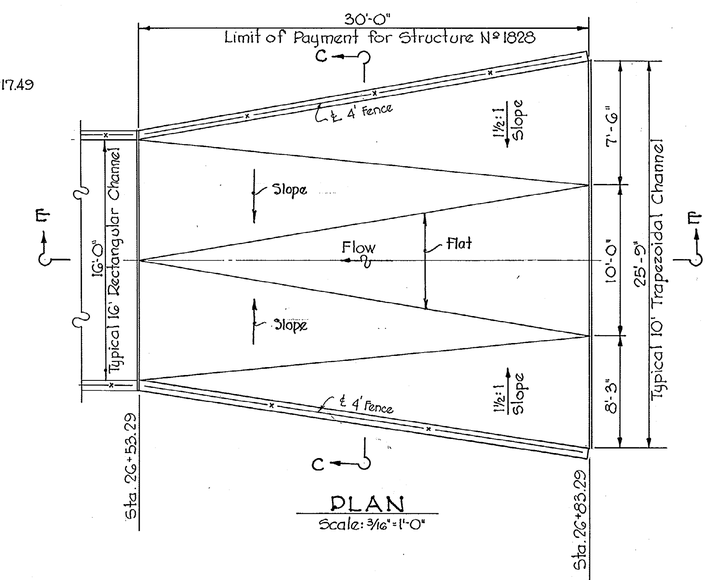
SD FILE NO. 198

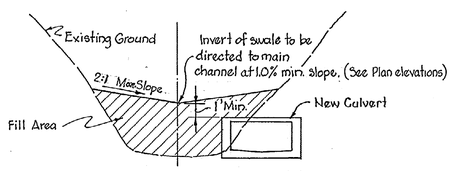
Maryland State Archives



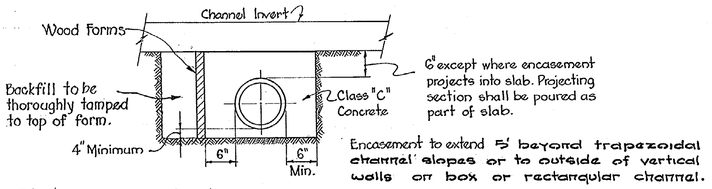








TYPICAL STREAM FILL SECTION
No Scale



CONCRETE ENCASEMENT EX. SEWER UNDER CHANNEL PAVING
No Scale

REVISIONS	
DATE	DESCRIPTION
4/18/62	Structure 1829 deleted.

See General Structural Notes Drawing Nº 8

Contract No. 0211-DW

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	WASHINGTON SUBURBAN SANITARY COMMISSION MARCH 21, 1962 (DATE) — CHIEF ENGINEER	CONTRACT NO. 0211-DW	AUTHOR: MAY 1956 / PROJECT / PART / JOB NO. 56 DW 10 (STORM DRAIN)	DETAILS	GLEN ECHO DISTRICT WILLETT BRANCH STORM DRAIN B.&O. R.R. BRIDGE 9 TO BRIDGE 7	DRAWING NO. 9 OF 14 — SCALE AS SHOWN — 62037 Y

W.O. 4881-2

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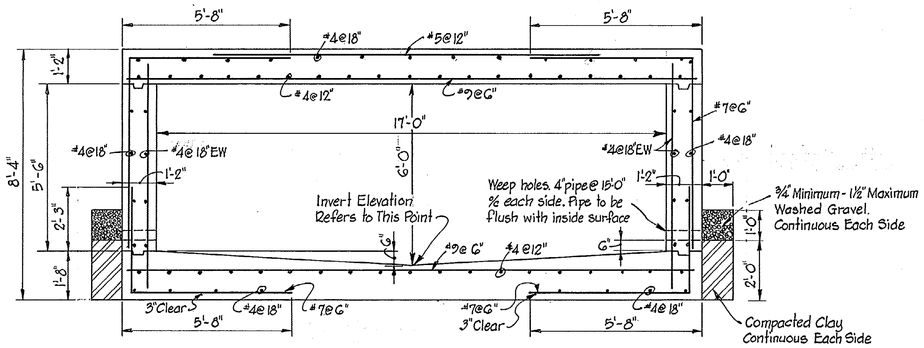
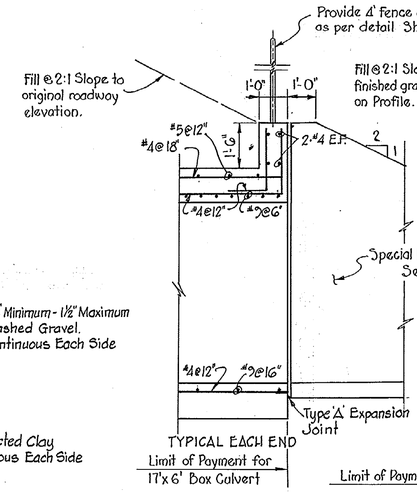
SD FILE NO. 198

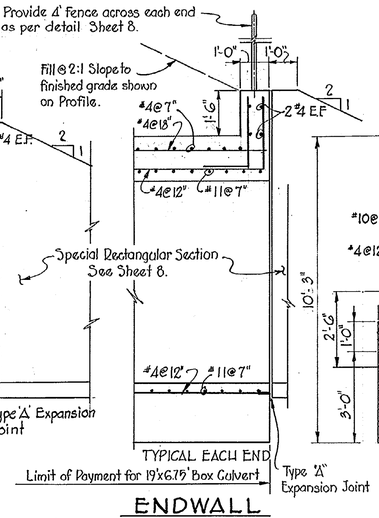
Maryland State Archives



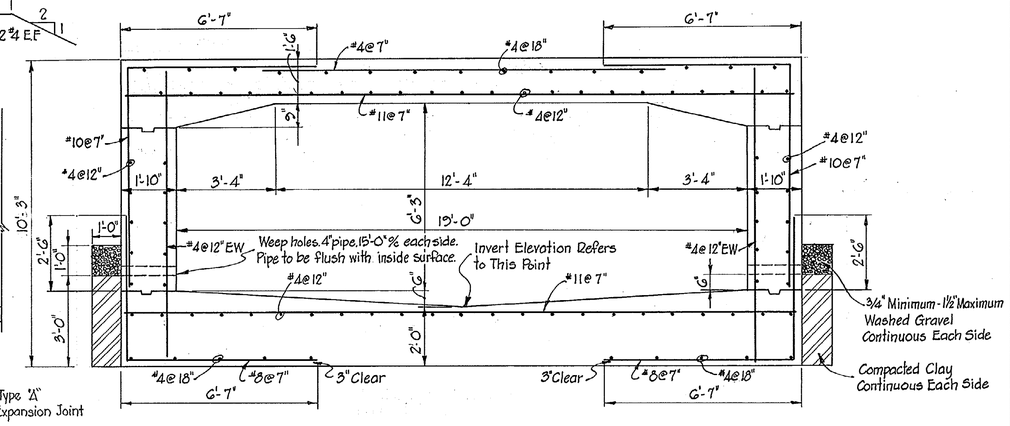
TYPICAL SECTION



ENDWALL SECTION



ENDWALL SECTION



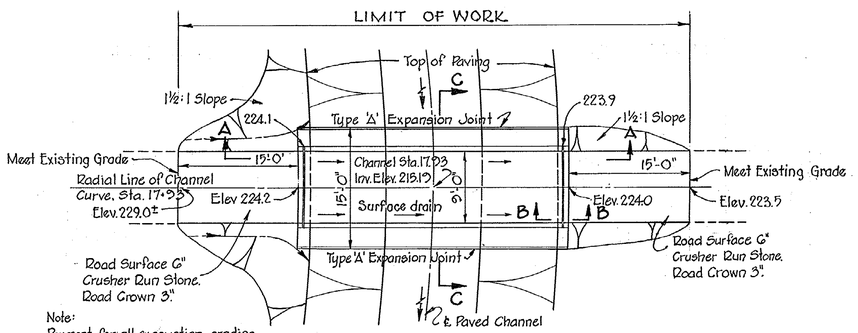
TYPICAL SECTION

17' × 6' BOX CULVERT STA. 11+24 TO STA. 11+84

Scale: 3/8" = 1'-0"

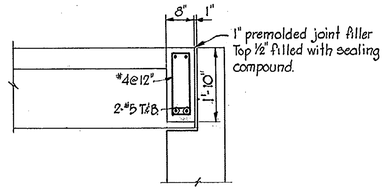
19' × 6.75' BOX CULVERT STA. 19+24 TO STA. 21+87

Scale: 3/8" = 1'-0"

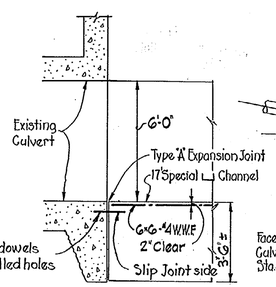


Note:
Payment for all excavation, grading, surfacing and related work of roadway between Limits of Work shall be included in proposal item for Structure Nº 1826.

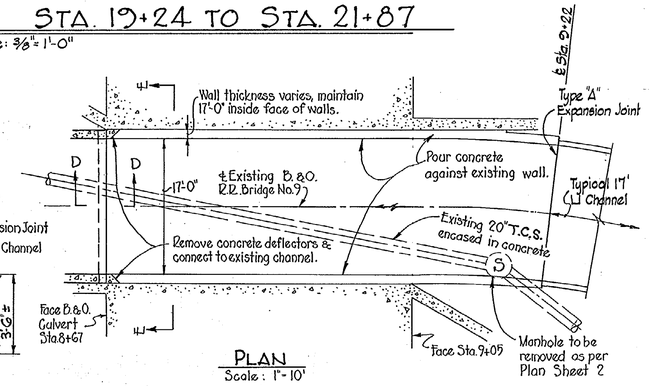
PLAN
Scale: 1" = 10'



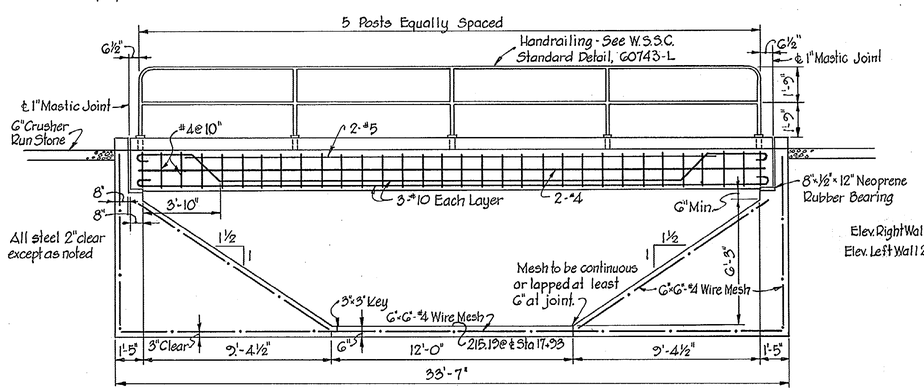
SECTION 'B-B'
Scale: 1/2" = 1'-0"



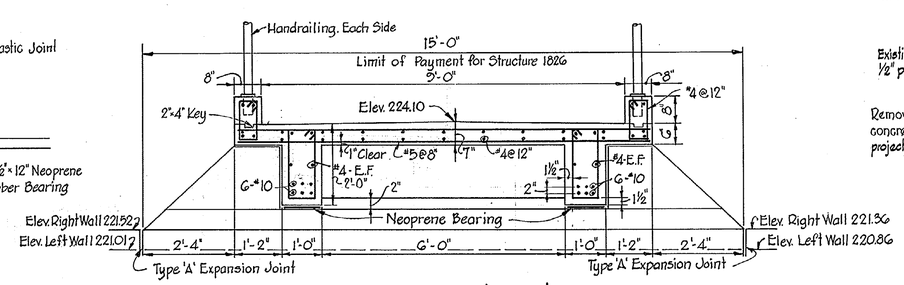
SECTION "D-D"
Scale: 1/2" = 1'-0"



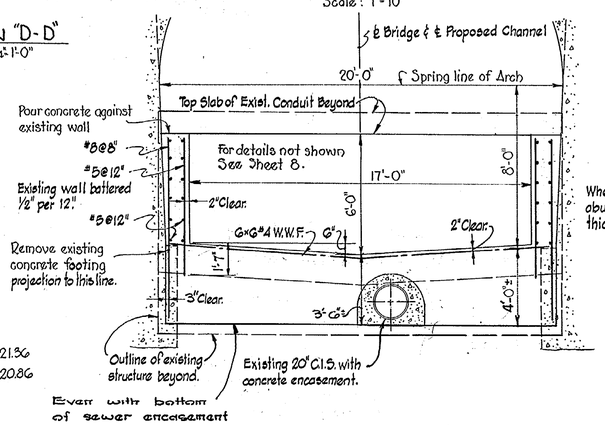
PLAN
Scale: 1" = 10'



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



SECTION 'C-C'
Scale: 1/2" = 1'-0"



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

Construct Section "E-E" Sta. 8+67 to 9+22

DETAIL SHOWING SPECIAL 17'x6' CHANNEL AT B. & O. BRIDGE No. 9

STRUCTURE Nº 1826 CHANNEL STATION 17+93

Scale: As Shown

See General Structural Notes Sheet No. 8

Contract Nº 0211-DW

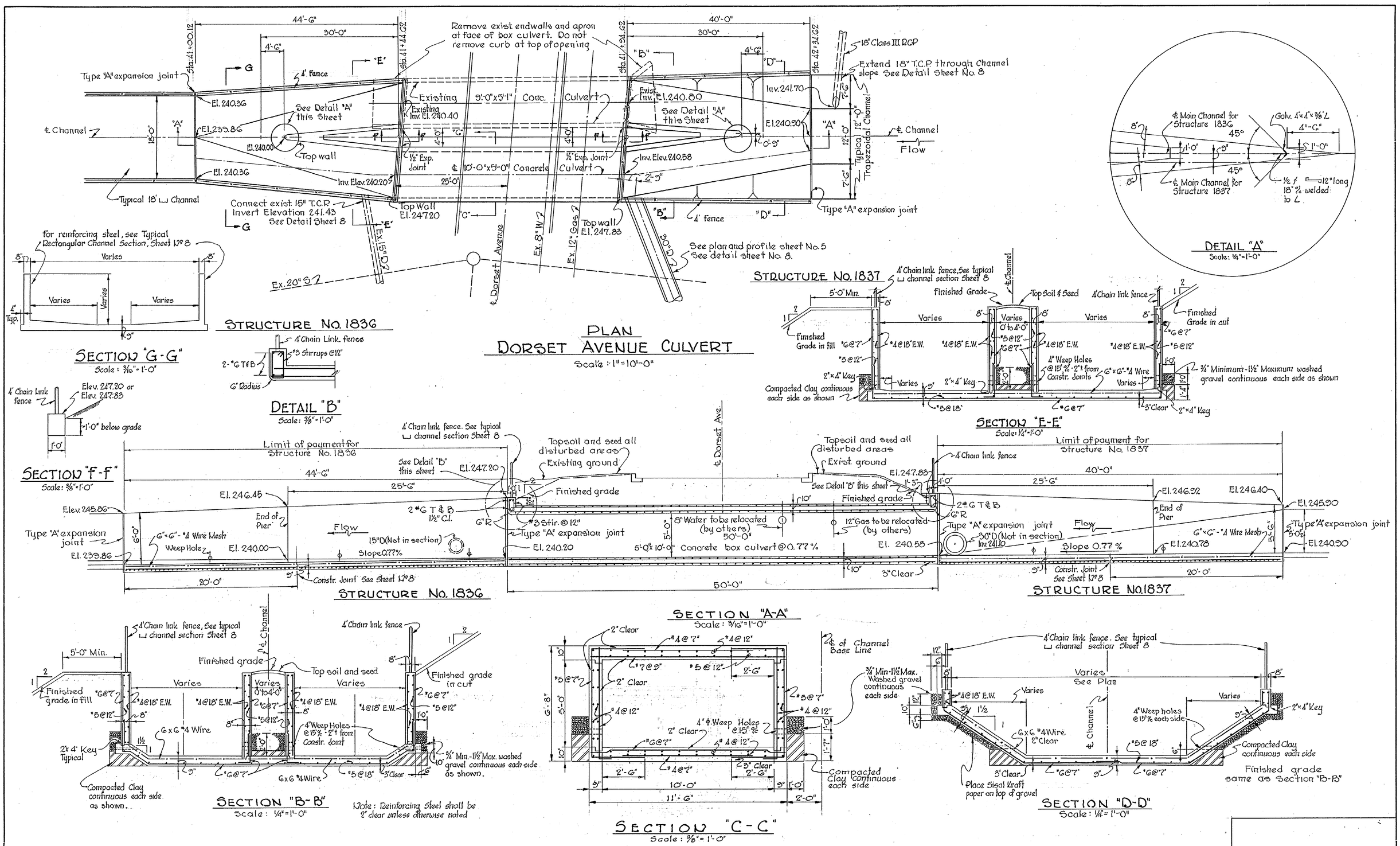
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	WASHINGTON SUBURBAN SANITARY COMMISSION MARCH 21, 1962 DATE — CHIEF ENGINEER	CONTRACT NO. 0211-DW	AUTHOR: STORM DRAIN. MAY 1956	DETAILS	GLEN ECHO DISTRICT WILLETT BRANCH STORM DRAIN B.&O. R.R. BRIDGE 9 TO BRIDGE 7	DRAWING NO. 10 OF 14 — SCALE AS SHOWN — 62038 Y

PROJECT / PART / JOB NO. 56 DW 10

SD FILE NO. 198

CE 487-197-10

W.O. 4881-2



DORSET AVENUE CULVERT AND TRANSITION STRUCTURES No. 1836 AND 1837

Scale: As shown

See General Structural Notes Sheet 8.

Contract No. 0211-DW

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	WASHINGTON SUBURBAN SANITARY COMMISSION MARCH 21, 1962 (DATE) — Robert J. McFarland (CHIEF ENGINEER)	CONTRACT NO. 0211-DW	STORM DRAIN AUTHOR: MAY 1956 PROJECT: PART: JOB NO.: 56 DW 10	DETAILS	CHEVY CHASE DISTRICT WILLETT BRANCH STORM DRAIN B.&O. R.R. BRIDGE 9 TO BRIDGE 7	DRAWING NO. 11 OF 14 — SCALE AS SHOWN — 62039 Y

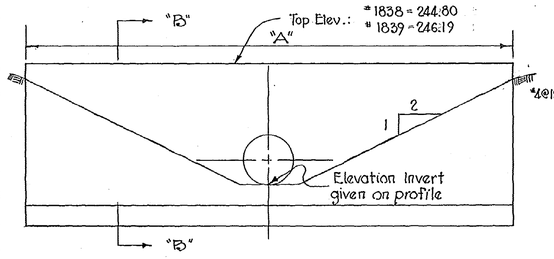
W.O. 4881-2

CE 487-197 -11

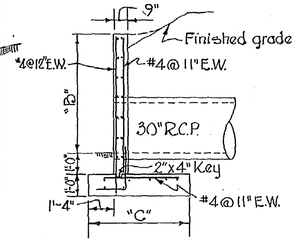
SD FILE NO. 198

TABLE OF DIMENSIONS

Structure No.	Pipe Dia.	A	B	C
1838	30"	24'-6"	6'-0"	5'-0"
1839	30"	21'-6"	5'-0"	5'-0"

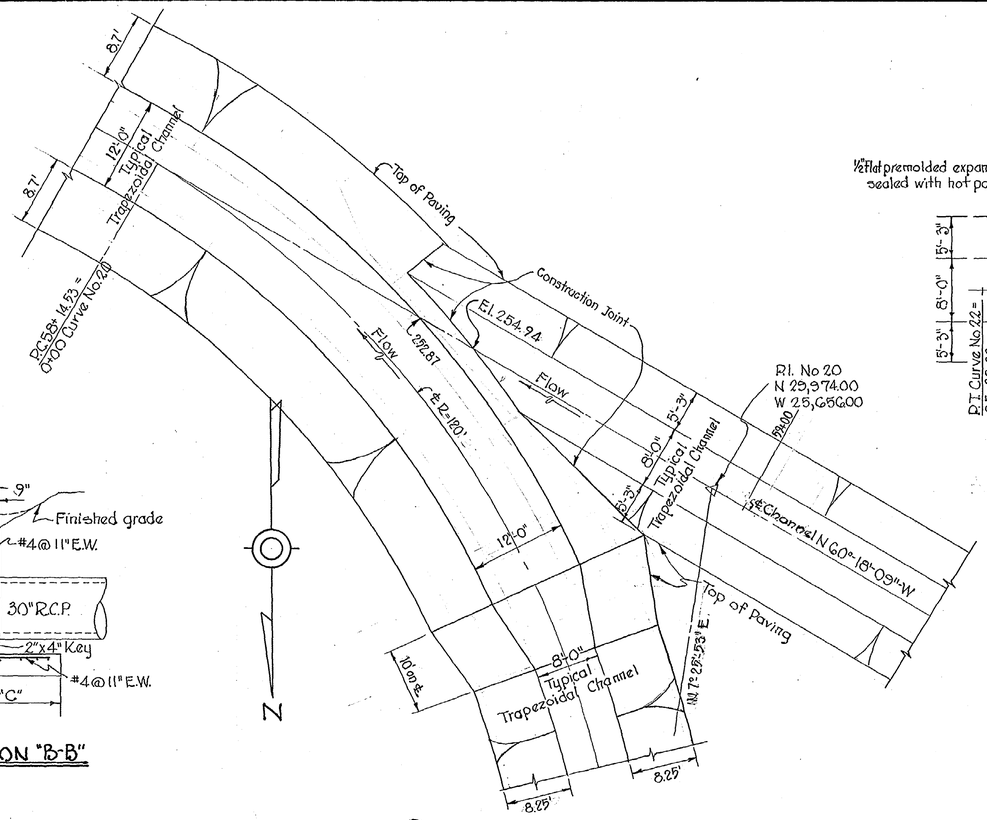


ELEVATION



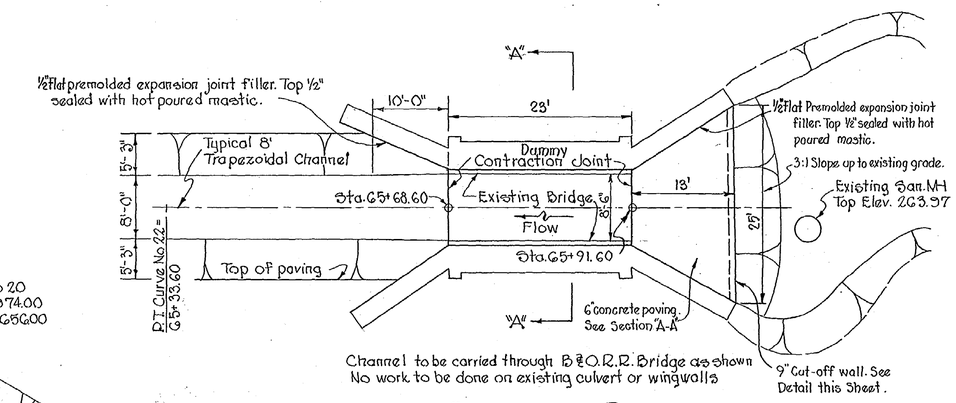
SECTION "B-B"

STRUCTURE No's. 1838 & 1839



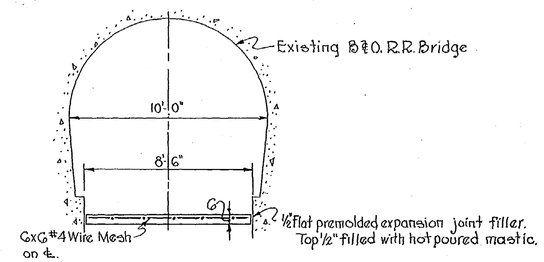
PLAN OF INTERSECTING CHANNELS AT STATION 58+14.53

Scale: 1" = 10'-0"



SECTIONAL PLAN B&O RAILROAD BRIDGE No.7

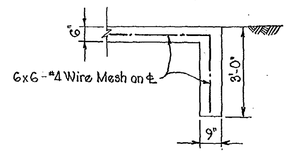
Scale: 1" = 10'-0"



SECTION "A-A"

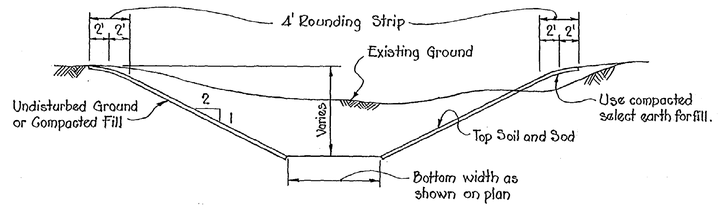
Scale: 1/4" = 1'-0"

DETAIL SHOWING CHANNEL PAVING THROUGH B&O R.R. BRIDGE No.7 CHANNEL STATION 65+68.60



TYPICAL CUT-OFF WALL SECTION

Scale: 3/8" = 1'-0"



TYPICAL TRAPEZOIDAL EARTH CHANNEL SECTION

No Scale

See General Structural Notes Sheet 8

Contract No. 0211-DW

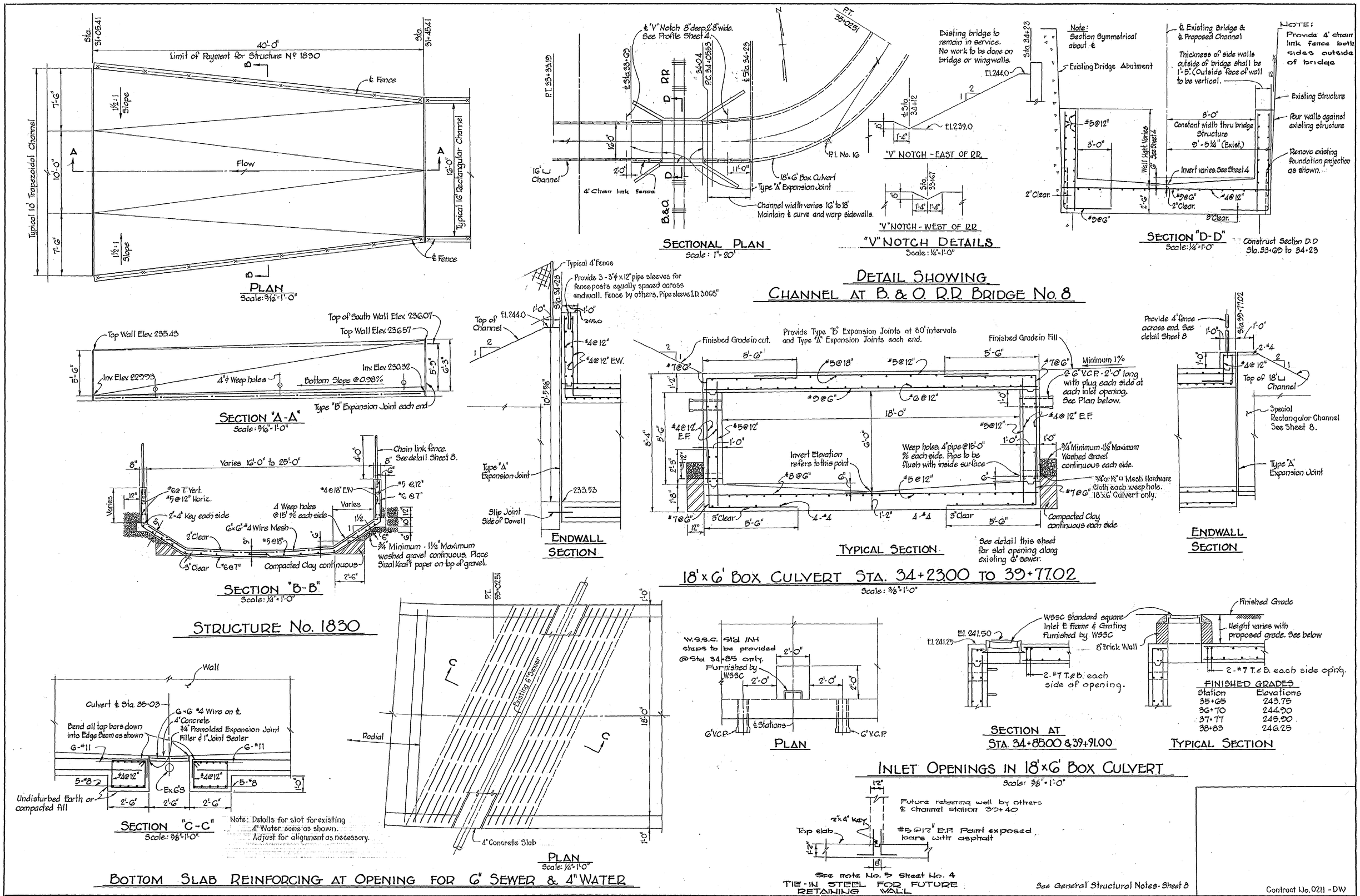
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	WASHINGTON SUBURBAN SANITARY COMMISSION MARCH 21, 1962 (DATE) — CHIEF ENGINEER	CONTRACT NO. 0211-DW	AUTHOR: STORM DRAIN; PROJECT: MAY 1956; PART; JOB NO. 56 DW10	DETAILS	CHEVY CHASE DISTRICT WILLETT BRANCH STORM DRAIN B&O. R.R. BRIDGE 9 TO BRIDGE 7	DRAWING NO. 12 OF 14	SCALE AS SHOWN	62040 Y

W.O. 7881-2

CE 487-197-12

SD FILE NO. 198

Maryland State Archives



WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	WASHINGTON SUBURBAN SANITARY COMMISSION MARCH 21, 1962 (DATE) — CHIEF ENGINEER	CONTRACT NO. 0211-DW	AUTHOR: STORM DRAIN PROJECT: PART: JOB NO.: 56DW10 MAY 1956	DETAILS	GLEN ECHO DISTRICT WILLETT BRANCH STORM DRAIN B.&O. R.R. BRIDGE 9 TO BRIDGE 7

DRAWING NO. 13 OF 14 | SCALE AS SHOWN | 62041 / Y

W.O. 4881-2

CE487-197-13

SD FILE NO. 198